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Abstract

The use of machine learning models for optimization and improved decision-making has a great potential in the drilling industry. This thesis demonstrates a model for predicting fuel consumption on the Mobile Offshore Drilling Unit (MODU) Deepsea Atlantic, which is a semi-submersible drilling rig currently operating on the Fram field in the North Sea. A Multi-layer Perceptron (MLP) artificial neural network is proposed as a tool for setting fuel consumption related performance goals for offshore personnel on the MODU. A dashboard layout for presenting fuel related performance goals to offshore personnel based on the predictive model is also proposed in this thesis. This method for presenting performance goals is inspired by Equinor's "Perfect well" and Shell's "Drilling the Limit" performance philosophies. Implementing performance goals for offshore personnel has the potential to develop a pursuit of operational excellence through a collaborative and competitive mindset, and as a result lead to a significant improvement in fuel efficiency.

Operational modes, environmental and positional data have been used as input variables for the MLP model with a data set split into an 80 % training set and a 20 % test set for performance validation. The best results came with three hidden layers in the neural network architecture with 38 neurons in each hidden layer. The Adam solver performs better than the Stochastic Gradient Descent (SGD) solver for weight optimization, and the best α parameter for the L2 regularization term is 0.0001 with the Adam solver. The MLP regression model predicts the fuel consumption for the test set with a Root Mean Square Error (RMSE) of 0.0770. Results indicate that an artificial neural network and the MLP regressor is a suitable algorithm for predictive modelling of fuel consumption on a MODU.

Preface

I would like to thank my supervisor Prof. R. M. Chandima Ratnayake at the University of Stavanger and external supervisor Per Lund from Odfjell drilling for support and guidance throughout the process of writing this master's thesis and the associated conference article for the 2019 International Conference on Industrial Engineering and Engineering Management (see Appendix A). I would also like to express my appreciation to the employees of Odfjell Drilling for enthusiastically sharing their insights and knowledge on the industrial challenge discussed in this thesis. Valuable support and guidance related to data collection and analysis by Thomas Borsholm and André Bådsvik was greatly appreciated. I would also like to thank Steinar Holst for taking me on a tour on board Deepsea Atlantic at the Coast Center Base at Ågotnes before starting this thesis. I am very much looking forward to continuing my work as a part of the Odfjell Drilling team after finishing my studies. Finally, I want to express my gratitude towards Anders for valuable support and to fellow students at UiS for giving advice and sharing their ideas and valuable inputs for this thesis and previous work throughout my engineering studies.

Maria Antun Hjellvik

Stavanger, June 2019.

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Nomenclature

List of Abbreviations

AHDD Active Heave Drilling Draw-works

AI Artificial Intelligence

ARIMA Autoregressive Integrated Moving Average

DP Dynamic Positioning

DSA Deepsea Atlantic

GP Gaussian Process

HVAC Heating, Ventilation and Air Conditioning

KPI Key Performance Indicator

LSTM Long Short-Term Memory

MAE Mean Absolute Error

MAPE Mean Absolute Percentage Error

MLP Multi-Layer Perceptron

MODU Mobile Offshore Drilling Unit

MP Mud Pump

MSE Mean Square Error

MSE Mechanical Specific Energy

MW Mooring Windlass

ReLU Rectified Linear Unit

RMSE Root Mean Square Error

SGD Stochastic Gradient Descent

SVM Support Vector Machine

TOB Torque on Bit

VFD Variable Frequency Drive

WOB Weight on Bit

List of Symbols

α Penalty parameter for L2 regularization term

 ε Learning rate

ŷ Predicted output

ρ Density

b Intercept

k₀ Engine load

P Power

q Fuel consumption

s Standard deviation

s_f Specific fuel consumption

u Mean value

W Connection weight

x Input feature value

y Actual output

1. Introduction

1.1 Background and previous research

A floating semi-submersible drilling rig, or Mobile Offshore Drilling Unit (MODU), is powered by a diesel-electric power plant. The power demand varies with different operational activities and environmental conditions on the MODU. Studying the impact of these variations on the fuel consumption could be one of the methods to improve energy management on a MODU. Improved energy management results in reduced in fuel expenditures and CO₂ emissions [1]. In this context, setting performance goals related to fuel consumption based on short-time predictions provides an approach for improving energy management on a MODU.

A machine learning approach has previously been used to predict fuel consumption in commercial buildings in different climate zones in a paper by A. Rahman and A. Smith [2]. This model used weather variables and schedule variables as input features, and the paper concluded that neural network and Gaussian Process (GP) regression performed better than multivariate regression and ridge regression for this case. An artificial neural network model with back-propagation was developed by N. Togun and S. Baysec to predict the specific fuel consumption of a gasoline engine [3]. A successful model constructed with a 3-13-1 neural network architecture was developed, and this resulted in a correlation coefficient of 0.98331 for the test set. S. Wang et al. researched the use of LASSO regression for predicting fuel consumption on a ship under different sea-states and weather conditions [4]. Hence, it should be possible to use a similar approach for predicting fuel consumption on a MODU.

The wide range of machine learning applications is enabled by the extensive research on the topic [5], as well as access to large amounts of operational data and the availability of affordable computers with high processing capabilities. Predictive modelling has many applications in the drilling industry. C. Hegde and K. Gray [6] found that a machine learning approach for optimization of drilling parameters by modelling the Rate of Penetration (ROP), the Torque on Bit (TOB) and the Mechanical Specific Energy (MSE) resulted in a 20% increase in ROP and decrease in MSE and TOB by 15% and 7%, respectively. Other studies have been performed on the prediction of fracture gradients [7], bubble-point pressure and formation-volume factor [8] and classifying rock type at a drilling bit [9]. Hence, the

use of machine learning as a tool for optimization and improved decision-making has already proven great potential in the drilling industry. Machine learning technologies such as predictive modelling, classification and anomaly detection is therefore thought to be an essential part of the digitization of the drilling industry.

An artificial neural network model is selected for the machine learning algorithm for this paper. The artificial neural network is built as a system of interconnected processing units that mimic the biological neurons in the human brain [10]. According to R. B Gharbi and G. A. Mansoori, artificial neural networks are one of the three main technologies within Artificial Intelligence (AI) in the oil and gas industry together with fuzzy logic and expert systems [5]. For instance, a fuzzy expert system based approach was used for functionality failure risk analysis assessments for subsea pipeline systems [11]. Taking part in these developments within AI will be a necessity for offshore operators in order to stay competitive in the future, especially with the current global focus on digitization in the industry [12]. Smart use of data is in fact one of the top priorities in the oil and gas sector today, according to DNV-GL [12].

1.2 Industrial challenge

Drilling rigs consume large quantities of fuel (i.e. diesel) to generate electrical power used by various consumers on the rig. It is important to analyze the variations of fuel consumption in order to understand the impacts of operational and environmental conditions on the MODU. Excessive fuel consumption has large economic and environmental impacts. Hence, to address the aforementioned is a significant challenge and a necessity for companies such as Odfjell Drilling. Although renewable energy sources and alternative sources such as hydrogen may be the solution to reduce emissions in the long term, the focus for this thesis is to utilize existing technology to improve fuel efficiency in the short term. A fishbone diagram of the cause and effects related to poor fuel efficiency is illustrated in Figure 1.1. The figure indicates how rules/policies/procedures, technology, leadership and personnel contributes to the problem of poor fuel efficiency on a MODU. Rules related to emergency preparedness dictate how many diesel generators must run simultaneously in case of an event such as drift-off, loss of a generator or a well control incident. This causes the diesel engines to run at unfavorable load factor where the fuel efficiency is low. Contributing factors could also be insufficient monitoring of

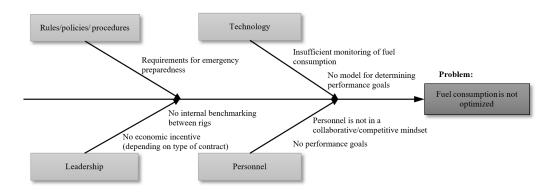


Figure 1.1: Fishbone diagram of the causes and effects related to fuel consumption on a MODU

fuel consumption and lack of tools to evaluate performance.

Currently, as the personnel do not receive performance goals, the fuel efficiency has not been taken into consideration as a priority in an average working day. Financial incentives for reducing fuel consumption is another contributing factor. However, this is highly dependent on the type of contract, i.e. if the fuel expenditures are paid by the client (or the company) hiring the drilling rig. Moreover, internal benchmarking is another tool that has a potential for setting performance goals. Nevertheless, to date, no methods to prevent excessive fuel consumption have been taken into consideration.

1.3 Performance philosophies

One of the key objectives of predictive modelling is that it provides the ability to take actions based on forecasts. This makes predictive modelling especially relevant for various industrial applications. However, a common challenge regarding fuel management on a MODU is lack of tools to determine whether the fuel consumption is excessive or not. Equinor's "perfect well" approach for making time estimates for drilling and well operations is an example of successful implementation of such a performance tool, or philosophy [13, 14]. The perfect well time is described as "the minimum time in which a well could possibly be drilled" [14] and is calculated from historical data on similar wells. This historical data provides the shortest time recorded for each sub-operation, and adding each sub-operation together gives the time estimate for the "perfect well" [13]. This is a method for setting goals for the offshore personnel with focus on continuous improvement. The "perfect well" approach contributed to reducing the drilling time for onshore wells in the US from over 50 days to less than 10 days, proving that setting the offshore personnel in a collaborative and competitive mindset is useful

for the efficiency in drilling operations [14].

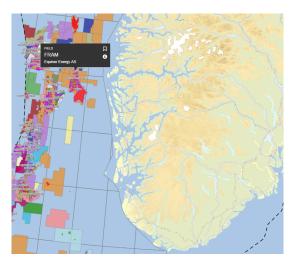
Another performance philosophy in the drilling industry is "Drilling the Limit", which is a Shell trademark [15]. This philosophy measures performance against a theoretical perfect limit, which develops a pursuit of operational excellence. Case studies with the implementation of "Drilling the Limit" results in an enthusiastic team spirit and change in culture, significant increase in performance and improved well delivery [15]. The rig personnel reported that they enjoyed the thrill of success and the peer competition between rigs [14].

1.4 Odfjell Drilling and Deepsea Atlantic

Odfjell Drilling is an international drilling, well service and engineering company which was founded in 1974. The company which owns and operates a fleet of semi-submersible drilling rigs and drill ships, and has extensive experience with operating and manning fixed and mobile installations [16]. The drilling rig Deepsea Atlantic (DSA) has been part of the Odfjell Drilling fleet since 2009 [16]. It is a harsh environment semi-submersible drilling unit (illustrated in Figure 2(a)) designed for operating in water depths up to 3000 m. For station keeping during drilling, the rig uses an anchoring system and/or a dynamic positioning (DP) system. The anchoring system facilitates mooring in 70-500 m



(a) Deepwater semi-submersible drilling rig Deepsea Atlantic



(b) Location of the Fram field 20 km from the Troll field

Figure 1.2: Illustration and location of Deepsea Atlantic

depth. DSA also has a dual derrick to facilitate simultaneous operations [17]. DSA is currently on a contract for Equinor Energy [18], drilling three multilateral wells in the Fram field in the North Sea starting from January 2019 [19].

1.5 Problem statement

The topic of this thesis was suggested by the external supervisor from Odfjell Drilling since fuel efficiency is of great interest to the company for both economic and environmental purposes. Combining the topic of fuel consumption with machine learning is especially interesting due to extensive developments within AI and machine learning in the recent years and the overall focus on digitization in the drilling industry. The objective of this thesis is to investigate the current status of fuel consumption on the semi-submersible drilling rig DSA, and to use a machine learning approach to predict short-term fuel consumption on the MODU. Predictions are based on operational, positional and environmental factors' variations (i.e. input to the machine learning model). The developed machine learning model is proposed as a tool for improved decision-making and for setting fuel consumption related performance goals for offshore personnel on the MODU.

1.6 Outline

The thesis is structured as follows. Chapter 2 contains a brief overview of the different types of machine learning algorithms. This chapter also contains guidelines regarding how to choose the right model for specific machine learning problems. In Chapter 3, the methodology of the thesis is explained. This includes both literature review for relevant theory and previous research as well as the methods for data analytics that are used for developing the machine learning algorithm. Methodology regarding case study research is also included in this chapter. Results from fuel and power consumption analysis and the machine learning model are presented in Chapter 4 and discussed in Chapter 5. The use of predictive modelling to set fuel related performance goals is also presented in these chapters. Lastly, the conclusions and recommendations for further research on the topic of predictive modelling of fuel consumption are given in Chapter 6. The appendix contains relevant documents, such as Python scripts, schematics and technical specification sheets to support the thesis.

2. Theory

This chapter explains the basic theory behind machine learning and the most common types of machine learning models. The basic principles of time series forecasting will also be explained, as well as the most common methods for measuring performance of forecasts.

2.1 Machine learning models

There are many definitions of machine learning, and one is proposed by Tom Mitchell by explaining the well-posed learning problem [20]. A computer program is said to learn from experience E with respect to some task T and some performance measure P, if its performance on T, as measured by P, improves with experience E. Machine learning algorithms are commonly divided into supervised learning and unsupervised learning depending on the type of problem and data set [21]. Supervised learning algorithms learn from pairs of inputs and outputs. The algorithm is then able to make predictions for outputs corresponding to inputs the model has not seen before. Unsupervised learning, on the other hand, only knows the inputs of the problem and must extract knowledge from this data without knowing any previous outputs.

Machine learning models are often categorized as classification, regression or clustering problems [21]. Classification problems are characterized as problems with categorical solutions, such as the binary "True" or "False", "1" or "0" or non-binary discrete solutions such as the classification of animals within a certain number of species. There is a discrete-valued output, meaning that the output y can only take on a small number of discrete values. A regression problem is where a continuous output value is predicted from a number of features, or input variables. This means that classification and regression problems are easily distinguished by evaluating whether there is continuity in the output. Regression and classification are supervised learning problems where a data set is given and it is known what the correct output should look like for the training data. This also means that there is feedback to the model based on the prediction results. Problems where data needs to be organized to find specific patterns are clustering problems. Clustering is an unsupervised learning problem, where the model learns by itself to find structure in data without necessarily knowing the correct output. In conclusion, the supervised learning models are predictive and unsupervised models are explana-

tory [22]. Another category of unsupervised learning is dimensionality reduction which finds new ways to represent the essentials of many features into fewer features [21]. The various supervised and unsupervised machine learning models and their applications are further described in the following section.

2.1.1 Overview of supervised learning algorithms

The goal of a supervised learning problem is to learn a function h: $X \to y$ where X is the input feature and y is the estimated output value. The hypothesis h(x) shall be a good predictor of the target variable (see Figure 2.1). Choosing how to represent the hypothesis is an important part of developing a supervised learning algorithm, and this is illustrated in Figure 2.2 [23]. Depending on the type of problem and number of input features, the hypothesis may be represented as a linear function or a polynomial function with multiple degrees. It is important to avoid using a suitable hypothesis to prevent overfitting (too complex model) or underfitting (too simple model) which could result in poor performance on the validation data [23].

As previously mentioned, supervised learning algorithms are used for either regression or classification problems depending on whether the desired output is continuous or finite. Table 2.1 presents the the most common supervised learning algorithms and an overview of which inputs and outputs these models can work with. The contents of this table is based on descriptions by A. C. Müller and S. Guido [21]. In addition to those methods mentioned in the table below, there are also ensembles of machine learning models where different models are combined to take advantage of the strengths of each model [21]. Random forests and gradient boosted regression trees are examples of such ensembles.

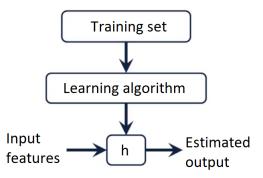


Figure 2.1: The role of hypothesis, h, in a learning algorithm

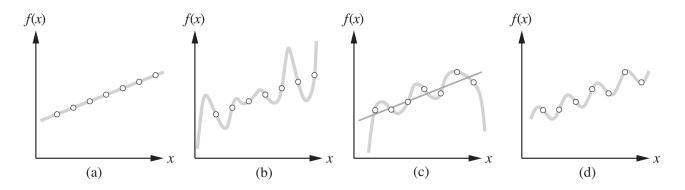


Figure 2.2: Finding the best hypothesis for two different data sets: (a) A good fit with linear hypothesis. (b) Overfitting with a 7 degree polynomial. (c) Good fit with 6 degree polynomial and underfitting with linear hypothesis. (d) A good sinusoidal fit.

Table 2.1: Description of supervised learning algorithms

Model	Category	Description	Input	Output
Linear regression	Regression	Makes predictions with a linear function of input variables	One or multiple features	Continuous
Artificial neural networks	Regression or classification	Learning process by comparing output values to desired values, improved performance over time	One or multiple features	Continuous (regression) or discrete (classification)
k-Nearest neighbor	Regression or classification	Predictions using one or multiple nearest neighbors close to the new input in the data set	One or multiple features	Continuous (regression) or discrete binary/ multiclass (classification)
Decision tree	Regression or classification	Regression model is fitted to the target variable using each of the independent variables. Classification by a hierarchy of logical if-then conditions	One or multiple features	Continuous (regression) or discrete binary/ multiclass (classification)
Support vector regression [24]	Regression	Data correlation through linear mapping	One or multiple features	Continuous
Logistic regression	Classification	Decision boundaries found by linear models	One or multiple features	Discrete binary or multiclass
Linear support vector machine	Classification	Decision boundaries found by linear models	One or multiple features	Discrete binary

Table 2.1 continued from previous page

Model	Category	Description	Input	Output
One-vsrest	Classification	Extends binary classification models	One or multiple	Discrete multiclass
approach	Classification	to multiclass output	features	Discrete municiass
M D	Classification	Probabilistic classifier	One or multiple	Discrete binary
Naive Bayes			features	or multiclass
Kernelized support	Classification	Non-linear decision boundary	One or multiple	Discrete binary
vector machines	Ciassification	Non-linear decision boundary	features	or multiclass

Each of the methods described in the table above have their strengths and weaknesses. For instance, decision trees have severe limitations in making predictions outside the range of the training data (i.e. extrapolating data) [21]. Nearest neighbors is a good approach for small data sets, whereas linear models and neural networks perform well with large data sets. Supervised learning algorithms often have limitations regarding dimensionality of the data, meaning the number of input features in the data set. Dimensionality should therefore be evaluated when selecting an appropriate supervised learning method for a particular problem. For instance, the k-Nearest neighbor algorithm performs poorly when there are more than a few hundred input features in the data set. Linear models have the ability to handle a large number of input features, and the linear classification models such as logistic regression and linear support vector machine (SVM) have restrictions in low-dimensional spaces. This is because the linear models can only separate points by a straight line. The same issue is present for linear regression methods.

In addition to the dimensionality of the data set, there could also be issues related to the contents of the input features. The term "sparse data set" is used when most input features are 0. Sparse data causes issues for the k-Nearest neighbor algorithm, however, this causes no problem for linear models. Similarly to linear models, the Naive Bayes algorithm is preferred when handling data sets in high-dimensional spaces and could even be faster to train than linear models. Gaussian Naive Bayes is a variant of Naive Bayes that is often preferred for high dimensional data, whereas the variants multinomial and Bernoulli Naive Bayes are typically used with sparse data sets. Tree-based models are preferred with low-dimensional non-sparse data. The Kernelized SVM is an algorithm where flexibility is increased by adding non-linear features to the linear models for classification. This means that the Kernelized SVMs perform better than linear models in low-dimensional spaces.

2.1.2 Overview of unsupervised learning algorithms

Unsupervised learning algorithms differ from supervised algorithms because they have no known outputs [21]. This family of machine learning algorithms is often applied to clustering problems, meaning that different parts of a data set is grouped into clusters of similar data points. Unsupervised learning is also used for transformation of a data set where the algorithm presents the data in a way that is more easily understood. This is for instance dimensionality reduction where the number of features in a data set is reduced to only those features that best describe the problem. Various unsupervised learning algorithms are presented in Table 2.2.

Table 2.2: Description of unsupervised learning algorithms

Model	Category	Description	Input	Output
k-Means clustering	Clustering	Finds cluster centers and assigns points to these centers by feature similarity	Input data with features	Cluster
DBSCAN	Clustering	Identifies dense regions as clusters	Input data with features	Cluster membership
Agglomerative clustering	Clustering	Iteratively joining the two closest clusters	Input data with features	Cluster membership
Principal Component Analysis	Transformation	Dimensionality reduction by dropping certain principal components	Input data with features	Transformed data with reduced dimension

2.1.3 Selecting the right machine learning model

The Scikit-learn documentation provides a map of the different estimators that can be used for supervised and unsupervised learning [25]. This flowchart gives a guidance of which estimator, or machine learning model, could be used depending on the type of problem and data set. Figure 2.3 is the complete flowchart from the Scikit-learn documentation. This flowchart does not provide a definite answer to which machine learning model that will give the best results for the learning problem. However, it gives an indication to which estimators to try on the data set.

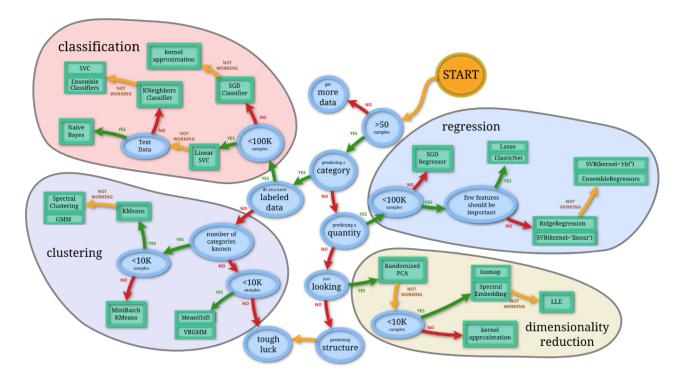


Figure 2.3: Machine learning map

2.2 Artificial neural networks and the multi-layer perceptron

2.2.1 Architecture of artificial neural networks

A neural network is built as a system of interconnected processing units which mimic the biological neurons in the human brain [26]. The processing units are called neurons, or nodes, and are built into the model in input, output and hidden layers. An input layer communicates with the external environment [27], meaning that this layer receives the input variables imported into the model. Similarly, the output layer communicates the pattern learned by the model into the external environment. Between the input layer and the output layer is one or multiple hidden layers. Each neuron the in the hidden layers receives an input and determines an appropriate output value based on an activation function. A widely used type of ANN is the feed forward neural network. A feed forward neural network consists of an input layer, one or multiple hidden layers and an output layer [26], as illustrated in Figure 2.4.

Selecting a suitable number of hidden layers and the number of neurons in each hidden layer is important when building the neural network architecture. These are in fact the most important features

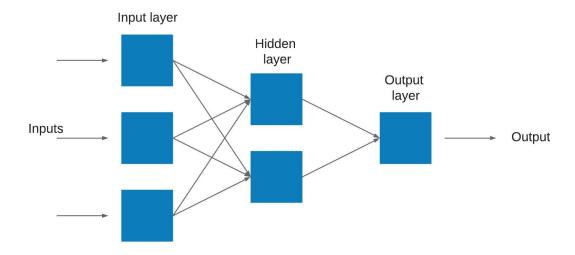


Figure 2.4: Feed forward neural network

of the model. A good starting point is to use one or two hidden layers. The number of neurons in each hidden layer could often be the same as the number of input features [21], or around 2/3 of the size of the input layer [27]. Underfitting could occur if the number of hidden layers and neurons is too low for a complex problem. Too many neurons or hidden layers, on the other hand, could result in overfitting the problem [27].

2.2.2 Multi-layer perceptron

The Multi-Layer Perceptron (MLP) model is a type of feed forward artificial neural network used for both classification and regression probems [21]. It can be seen as an extension of linear regression, and is useful when predicting target values from one or multiple input features. The algorithm learns a function from a set of features $X = x_1$, x_2 , ..., x_m and a target y [28]. The MLP model contains an input layer, an output layer and one or more hidden layers in between. Neurons are connected by coefficients, also referred to as weights. There are weights between each input and hidden unit, and between each hidden unit and the output. Learning is achieved by computing a series of weighted sums and run the result through an activation function, which will be explained in the next section. Figure 2.5 is an example of an MLP with four features in the input layer, three neurons in the hidden layer and a single output. The connection weights between the input x and the hidden layer h are denoted as w[0,0], w[0,1] and so on. Similarly, v is the notation for the weights between the hidden layer and the output [21].

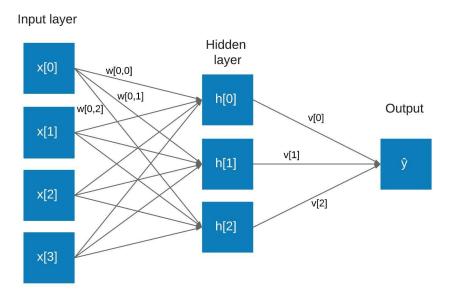


Figure 2.5: Neural network with connection weights

2.2.3 Activation function

An activation function is applied to the weighted sum for each of the hidden units. Sigmoid, tanh and Rectified Linear Unit (ReLU) are three common activation functions for ANNs [21]. These are non-linear functions, and can be seen in Figure 2.6 [22]. Expressed mathematically, the sigmoid function returns $f(x)=1/(1+\exp(-x))$. This functions gives an output between 0 and 1. The tanh function, also known as tangens hyperbolicus, returns $f(x)=\tanh(x)$ and the output ranges from -1 to 1. The ReLU function sets the output to 0 until the weighted average reaches zero. After this threshold, f(x) is a linear function. The ReLU function is expressed mathematically as $f(x)=\max(0,x)$. Equations 2.1, 2.2 and 2.3 illustrate how the ReLU activation function is used to calculate h[0], h[1] and h[2] for the MLP hidden neurons in Figure 2.5.

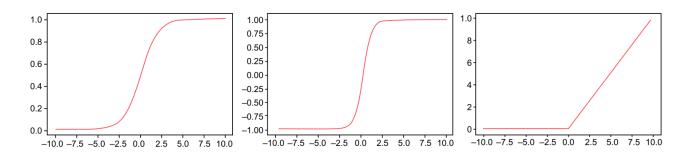


Figure 2.6: Activation functions: Sigmoid (left), tanh (center) and ReLU (right)

$$h[0] = ReLU(w[0,0] \cdot x[0] + w[1,0] \cdot x[1] + w[2,0] \cdot x[2] + w[3,0] \cdot x[3] + b[0])$$
(2.1)

$$h[1] = ReLU(w[0,1] \cdot x[0] + w[1,1] \cdot x[1] + w[2,1] \cdot x[2] + w[3,1] \cdot x[3] + b[1])$$
(2.2)

$$h[2] = ReLU(w[0,2] \cdot x[0] + w[1,2] \cdot x[1] + w[2,2] \cdot x[2] + w[3,2] \cdot x[3] + b[2])$$
(2.3)

where w is the weight, x is the value for the input feature and b is the intercept. The predicted output, \hat{y} , is then calculated by Equation 2.4:

$$\hat{y} = v[0] \cdot h[0] + v[1] \cdot h[1] + v[2] \cdot h[2] + b \tag{2.4}$$

2.2.4 Learning and weight optimization

Connection weights are adjusted by comparing the expected output to the actual output from each neuron. Error between expected and actual output is evaluated by a loss function. The MLP regressor uses the Square Error loss function [28], written as:

$$Loss(\hat{y}, y, W) = \frac{1}{2} |\hat{y} - y|^2 + \frac{\alpha}{2} |W|^2$$
 (2.5)

where \hat{y} is the predicted value, y is the actual value and W is the connection weight. $\frac{\alpha}{2} |W|^2$ is an L2-regularization term which is added to the loss function to prevent overfitting. This is done by shrinking weights with large values. The regularization term contains an α value which is a parameter that controls how large the penalty, or shrinking, should be for the regularization term [28].

Minimizing the loss function increases model accuracy, and this is done by optimizing weights between neurons. After the loss function in Equation 2.5 is calculated, backpropagation is used to pass the updated weight back to the previous layers. The change in weights is determined from gradient descent by calculation the partial derivative of the loss function to see how parameters should be changed

to minimize the loss. The change in weights is calculated from the following equation:

$$W^{(i+1)} = W^i - \varepsilon \nabla Loss^i_W \tag{2.6}$$

where i is the iteration step and ε is the learning rate, which is the step size for gradient descent. In this way, the weights are updated repeatedly until the algorithm has reached a set number of iterations, or if the improvement in loss from one iteration to the next is below a set value. Weight optimization is done by implementing a learning algorithm, and two of the recommended learning algorithms for MLPs are Adam and SGD. These solvers determine how the model will learn the parameters of the model [21]. Both solvers are stochastic optimizers. The Adam solver is developed by Jimmy Ba et al., and is suitable for relatively large data sets [29]. Weight optimization by SGD supports adaptive learning rates where the learning rate is reduced when the improvement in training loss is below a set value [30].

2.3 Performance evaluation

There are numerous methods for measuring the performance of a predictive model. A common method is the Mean Square Error (MSE), which is a measure of the average squared difference between real values and the predicted values. MSE is calculated by the following equation [31]:

$$MSE = \frac{1}{n} \sum_{i=1}^{n} (y_i - \hat{y}_i)^2$$
 (2.7)

where n is the number of training sets. MSE close to zero will indicate good performance for the forecasting model. Root Mean Square Error (RMSE) is another widely used method of evaluating performance of a model. RMSE is the root of MSE, and is calculated from Equation 2.8. Lastly, the Mean Absolute Error (MAE) is the root of the average difference between real and predicted values, as described in Equation 2.9.

$$RMSE = \sqrt{\frac{1}{n} \sum_{i=1}^{n} (y_i - \hat{y}_i)^2}$$
 (2.8)

$$MAE = \sqrt{\frac{1}{n} \sum_{i=1}^{n} (|y_i - \hat{y}_i|)}$$
 (2.9)

All these methods summarize the performance with disregard of whether the model prediction overshoots or under-shoots the actual value.

2.4 Time series forecasting

Time series analysis is an important part of machine learning, and is a useful tool for looking into the future of a given data set. A time series is a data set with a time component, and all data is time-dependent and observed sequentially over time [32]. Forecasting is when past behavior is used to predict an unseen future behavior [33]. The term time series forecasting is used when a time series of past observations of a variable is extrapolated into the future [34]. Only systematic components like trend and seasonality of a time series are predictable [22]. Time series forecasting can be divided into decomposition based methods, smoothing based methods, regression based methods and machine learning methods [22].

There are many reasons why it is interesting to study time series of data. C. Chatfield [32] describes the main objectives of time series forecasting as description, modelling, forecasting and control. Description is to use statistics or graphical models such as time plots to understand the behavior of the time series. Modelling utilizes statistical models to describe the behavior of the time series, and is used for both univariate and multivariate time series. Univariate forecasting is where forecasts of a single variable is only based on past observations of this variable. Multivariate forecasting predicts future behavior of a time series based on one or more series, or predictors, that the predicted variable is dependent on. Forecasting is to estimate, i.e. to predict, the future development of a time series. This is the main objective for time series analysis this thesis. Forecasting is often performed in steady-state conditions where the future trends are considered similar to the past trends. Another way of forecasting is the "what if"-principle where variables of a multivariate model are changed to predict the effect of a never-before seen scenario. The last objective is control, which is strongly linked to forecasting of time series. Control means that is it possible to take actions based on a predicted forecast of a time series, which makes time series analysis especially relevant for various industrial applications.

3. Methodology

Literature review, case study research and data analysis are the three methodologies used in this thesis. Firstly, relevant literature in the form of research papers and books regarding data analysis and machine learning has been reviewed. A case study has then been developed with the use of data analytics to present a machine learning model for fuel consumption.

3.1 Literature review

One of the methodology approaches for this thesis is literature review. ScienceDirect and Oria is used to find relevant literature. When performing literature searches, the "Abstract, title, keyword"-feature is mostly used in order to obtain relevant literature for each topic. Search words such as "predictive algorithms", "machine learning" and "fuel consumption" are particularly useful, combined with other search words to narrow down the number of hits. In addition to scientific publications, a number of websites are also used in order to obtain the required information for this paper.

Books from the library at University of Stavanger are also used in this paper. These books are mainly used for the theory chapter, and include the books "Artificial Intelligence: A Modern Approach" by S. Russell and P. Norvig, "Python for Data Analysis" by W. McKinney and "An Introduction to Machine Learning with Python" by A. C. Müller and S. Guido.

3.2 Case study research methodology

A mixed approach of case study and action research has been used as the research methodology for this thesis. The machine learning based approach has been used to perform multi-criteria analysis (i.e. by taking environmental and operational variables as the input) for predicting fuel consumption.

A case study is a research method which investigates a contemporary phenomenon within its real-life context [35]. Conducting a case study for research purposes is a useful strategy when posing "how" or "why" questions. The present thesis poses the question of how to model predictions of fuel consumption based on why fuel consumption for a MODU is not optimized. A case study is therefore

considered as a suitable approach for this purpose. The case study is conducted with the five steps of the action research cycle [36]: (1) identification of the problem, (2) collection and structuring of data, (3) interpretation of data, (4) actions based on data, and (5) reflection.

3.3 Data analysis

The machine learning algorithm in this thesis is developed by using the Python language and Jupyter Notebook in the Anaconda environment. The Python scripts used for data pre-processing and analysis are presented in Appendix B. Python is a popular and useful tool for data analysis for scientific computing purposes [37]. NumPy, pandas, scikit-learn, matplotlib and DataReservoir.io packages are imported for the purpose of data cleaning, structuring, analysis, visualization and importing operational modes, positional and weather data from a DataReservoir.

NumPy is a package for scientific applications, and is short for for Numerical Python. It has good capabilities for processing multidimensional arrays, and has a collection of mathematical functions. The pandas library is useful when it comes to working with data sets from Excel and CSV files. Pandas supports manipulation, reading and writing of these files, and is therefore useful for machine learning applications [38]. The pandas library also has great graphing capabilities, for example with the use of the DataFrame.hist feature. Scikit-learn is a tool used for data mining and data analysis. It contains various features for classification, regression, clustering, dimensionality reduction, model selecting an pre-processing for machine learning purposes [39]. Plots and 2D visualizations are most commonly produced by using the matplotlib library.

3.3.1 Fuel calculations

Fuel consumption is usually estimated based on the specific fuel consumption given by engine type, rated engine power and engine load [40]. Fuel consumption on DSA not measured directly on DSA, and must therefore be calculated from the sum of the power output from the diesel generators in the diesel-electric power plant located in each quadrant. The engine output for 100 % load of the Wärtsilä marine main engines on DSA is 5760 kW according to the technical data sheet (see Appendix C. There is a 96 % efficiency between the diesel engine and the generator. There is also a 2 %

loss between the generator output and the point where power is measured. Figure 3.1 illustrates the efficiency for the diesel engine and generator set. A total loss of $0.96 \cdot 0.98 = 0.9408$ must be taken into the fuel calculations. Power output from each generator is first converted to engine load by dividing the power output from each generator by the rated engine power (5760 kW), and accounting for the efficiency coefficients:

$$k_0 = \frac{P}{5760kW \cdot 0.96 \cdot 0.98} \tag{3.1}$$

where k_0 is engine load (ranging from 0 to 1, i.e. 0 to 100%) and P is the generator power output. The next step is to determine specific fuel consumption in g/kWh based on engine load. Figure 3.2 illustrates the specific fuel consumption per engine load for the marine main engines. This graph is created by curve fitting using a 2^{nd} degree polynomial on given fuel consumption for 25%, 50%, 75%, 85% and 100% engine load in the Wärtsilä technical data sheet (see Appendix C). The resulting polynomial is:

$$s_{\rm f} = 134,22k_0^2 - 224,44k_0 + 270,24$$
 (3.2)

where s_f is the specific fuel consumption with unit g/kWh. The fuel consumption is then calculated by Equation 3.3 below where q is fuel consumption with unit m³/h and ρ is the density of marine diesel oil which is given as 845 g/l.

$$q = \frac{s_{\rm f} \cdot 5760 kW \cdot k_0}{\rho \cdot 1000} \tag{3.3}$$
 Diesel engine O.96 Generator S530 kW engine output

Figure 3.1: Efficiency of diesel engine and generator

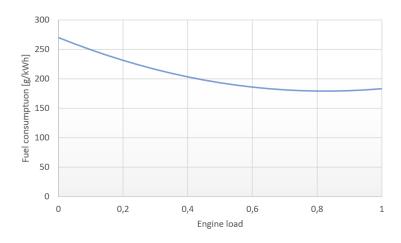


Figure 3.2: Fuel consumption per engine load factor (in decimal numbers)

3.3.2 Data collection and pre-processing

Operational and environmental data is collected from the 4Subsea DataReservoir, which is a data platform for structuring and storage of time series data. The DateReservoir is accessed through Python
and Jupyter Notebook in the Anaconda environment by importing the "datareservoirio" package as
mentioned in the previous section. Relevant input features for the machine learning model are collected from the DataReservoir as well as necessary data for fuel calculations. Hourly fuel consumption
is the target value for the machine learning model, and will be calculated based on measured power
output from the diesel generators as described in section 3.3.1. Table 3.1 is a complete list of the target
value and input features.

Table 3.1: Target value and input features for the machine learning model

Variable	Unit	Collected from:
Fuel consumption	m3/h	Calculated/DataReservoir
Datetime (UNIX)	-	DataReservoir
Wind speed	m/s	DataReservoir
Wind direction	rad	DataReservoir
Current direction	rad	DataReservoir
Current speed	m/s	DataReservoir
Depth in well	m	Daily Drilling Log
Draught	m	DataReservoir
Latitude	rad	DataReservoir
Longitude	rad	DataReservoir
·	,	

Table 3.1 continued from previous page

Variable	Unit	Collected from:
Hour of day	-	Python
Day of year	-	Python
Ops. mode 1 Rig up og tear down	-	Daily Drilling Log
Ops. mode 2 Drill actual	-	Daily Drilling Log
Ops. mode 3 Reaming	-	Daily Drilling Log
Ops. mode 5 Condition mud and circulate	-	Daily Drilling Log
Ops. mode 6 Tripping	-	Daily Drilling Log
Ops. mode 7 Planned maintenance	-	Daily Drilling Log
Ops. mode 8 Repair rig	-	Daily Drilling Log
Ops. mode 11 Wire line operations	-	Daily Drilling Log
Ops. mode 12 Run and pull casing/liner	-	Daily Drilling Log
Ops. mode 13 Cement operations	-	Daily Drilling Log
Ops. mode 14 Nipple BOP	-	Daily Drilling Log
Ops. mode 15 Test BOP	-	Daily Drilling Log
Ops. mode 19 Fishing	-	Daily Drilling Log
Ops. mode 21 Stuck pipe	-	Daily Drilling Log
Ops. mode 23 Waiting on weather	-	Daily Drilling Log
Ops. mode 24 Marine operations/skid rig	-	Daily Drilling Log
Ops. mode 25 Additional	-	Daily Drilling Log
Ops. mode 26 XMT	-	Daily Drilling Log
Ops. mode 27 Workover riser	-	Daily Drilling Log
Ops. mode 31 Tubing	-	Daily Drilling Log
Ops. mode 32 Not in use	-	Daily Drilling Log
Ops. mode 34 Testing	-	Daily Drilling Log
Ops. mode 35 Milling	-	Daily Drilling Log
Ops. mode 38 O & R	-	Daily Drilling Log
Ops. mode 41 Non-productive time	-	Daily Drilling Log
Ops. mode 43 Aux	-	Daily Drilling Log

The input features called "Ops. mode" in the table above is data that indicates the operational mode of the MODU at all times. Common operational modes are for instance drilling, marine operations, cement operations, tripping etc. Operational modes are listed in Appendix D. Only the main derrick activities are used for this model, and only main operation codes are listed (column named "Code" in Appendix D) instead of listing each subcode. This is done to reduce the number of input features.

Operational modes are imported from an Excel file from the Daily Drilling Log (see Appendix E). As opposed to the continuous environmental data such as wind speed and current speed, the operation mode is a categorical variable and must be represented in the machine learning model accordingly. One-hot encoding, also known as dummy variables, is a method of representing such categorical variables. Instead of representing the operation mode as a number from 1 to 43, each mode is represented by one column with a binary 1 or 0 indicating if the mode is active or not. Table 3.2 illustrates how one-hot encoding is used to indicate the operational mode over four time steps where the value one means that the operation code is active, and 0 means inactive. The operational mode is not updated continuously, but rather logged manually in time intervals. This causes some inaccuracy in the results. This also applies for the logging of depth in well.

Table 3.2: Example of one-hot encoding of operation modes

	Ops. mode 2	Ops. mode 6	Ops. mode 5
	Drill actual	Tripping	Condition mud & circulate
Time 1	1	0	0
Time 2	1	0	0
Time 3	0	0	1
Time 4	0	1	0

Other input variables such as wind speed, wind direction, draught, longitude and latitude are collected from the DataReservoir. Raw data collected from the DataReservoir is not sampled at a set frequency in the time series. The data set must therefore be resampled in order to obtain a time series with constant frequency between values. This is part of the data cleaning and preparation for data analysis. Resampling is the process of changing the frequency of a time series [37], where frequency can be increased (upsampling) or decreased (downsampling). In the case of this thesis, it is desirable to obtain a time series with a frequency of 1 data point per second. The time series is resampled by the pandas. DataFrame. reindex function combined with forward fill and backfill functions to fill in the empty NaN values of the resampled time series. A simplified diagram of the collection, cleaning and structuring of data as well as loading data into the machine learning model is illustrated in Figure 3.3. After the data collection, cleaning and structuring is performed, the data set is ready for final pre-processing before it is fed into the machine learning model. This step consists of scaling features and splitting the data set into training set and test set. This will be further explained in Section 3.3.4.

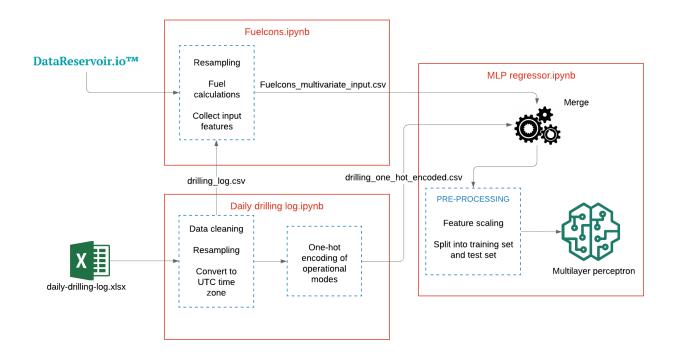


Figure 3.3: Overview of raw data pre-processing and file structure

3.3.3 Correlation analysis

Input features for the machine learning model are evaluated in a correlation plot created using the pandas.DataFrame.corr() function, and the default method is Pearson standard correlation coefficient. Correlation analysis is performed to see the relationship between two features on a scale from -1 to 1. A correlation of -1 indicates a perfect negative relationship, and 1 indicates a perfect positive relationship. 0 correlation factor means that there is no linear relationship between the two features. Correlation coefficients are illustrated with examples [41] in Figure 3.4.

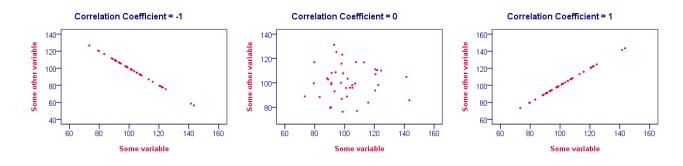


Figure 3.4: Pearson correlations -1, 0 and 1

3.3.4 Selecting and developing a trained model

An appropriate algorithm is selected based on descriptions presented in Section 2.1, previous research on the application of fuel consumption related predictive models and the machine learning map in Figure 2.3. Supervised learning is definitively a more suitable approach compared to unsupervised learning, since we are working with labelled data (pairs of known inputs and outputs) to train the model. The model should predict a quantity, not a category, which points to the direction of a regression problem. The number of samples, i.e. training sets, is large (7.7 million training sets), so it is important to select a model which can take on large data sets. By following the map in Figure 2.3, this leads to an indication that a Stochastic Gradient Descent (SGD) regressor could be a good fit. Research papers such as [2] and [3] support the use of neural networks for predictive modelling of fuel consumption. Neural networks have the ability to build complex models for large data sets [21], and is therefore considered a good fit for the fuel consumption model in this thesis. The MLP model is a type of artificial neural network and is a simple algorithm for both classification and regression purposes. SGD based solvers are built into the MLP regressor, so this fits well with the decision from the map in Figure 2.3.

Different architectures and parameters are tested to find the MLP model with highest performance. Performance is measured by the RMSE by comparing predicted value with actual value, as discussed in Section 2.3. This performance evaluation requires the data set to be split into a training set (i.e. 80% of the data set) and a separate test set (i.e. 20% of the data set). Data used to train the model can not be used to measure its success since the model already knows the correct output, so the test set is applied for this purpose [21]. The test set is generated by selecting random training sets from the original data set. The scikit-learn library contains the function sklearn.model_selection.train_test_split() for randomly dividing a data set into training and testing data.

Another pre-processing step is carried out to remove the mean and scaling input variables to unit variance since the MLP regressor is sensitive to feature scaling [28]. Standardization is performed with the sklearn.preprocessing.StandardScaler feature [42] where standard score for each training sample is calculated from the following equation:

$$z = \frac{x - u}{s} \tag{3.4}$$

where x is the training sample, u is the mean value of the sample and s is the standard deviation of the sample. The model is then built using the sklearn.MLPRegressor() with a random state set as 0 to obtain the same results each time the model is run. Relevant parameters for the MLP regressor are; hidden layers sizes, activation function (sigmoid, tanh or ReLU), solver (LFBGS, SGD or Adam), L2 penalty parameter α , learning rate ε , maximum number of iterations, random state and tolerance. After the parameters of the model is determined, the model is fitted to the training data by using the ml_model.fit() function.

4. Analysis

This case study is based on data from operations on DSA in the time period from 25th of January to 25th of April 2019. DSA is located at the Fram field [43] in the northern part of the North Sea in this time period. Station-keeping during this time period is provided by a combination of DP and mooring. The following chapters will present the diesel electric power plant on board DSA and provide an overview of the power and fuel consumption on DSA for this time period, as well as an analysis of how this consumption relates to operational conditions on the MODU.

4.1 Power consumption on Deepsea Atlantic

MODUs such as DSA have high power requirements. The various equipment on the rig requires either continuous or periodic power supply from the diesel-electric power system on board the rig. Diesel-electric power systems is the industry standard for supplying energy to vessels with DP systems [44], and is a widely used system for large marine rigs [45]. The diesel-electric system consists of a set of diesel engines which are paired with generators in the power system where mechanical energy is converted into electrical power. This chapter presents an overview of the diesel-electric power system and power distribution on DSA. Configuration modes for the diesel generators in the power plant is also presented.

4.1.1 *Overview of the diesel-electric power plant and distribution system*

The drilling rig DSA is powered by a diesel generator power plant that consists of four quadrants each containing two diesel generators as well as high and low voltage switchboards and sub-distributors (see Appendix F). The diesel-electric power system generates electrical energy which is transmitted to the various rig systems where work is performed through the use of electric motors. This power system enables variable-power operation of equipment on the rig, such as draw-works, mud pumps, thrusters, Heating Ventilation and Air Conditioning (HVAC), and top drive. A diesel-electric power system has many advantages compared to the conventional mechanical drive systems that have been used to operate equipment on drilling rigs in the past [45]. The diesel-electric system allows for

smooth operation of equipment and has fewer issues related to vibrations and shock compared to a mechanical drive system. It also enables the use of a simple and flexible control system. Electrical power on DSA is distributed to five main groups of consumers; thrusters, drilling and distribution to marine, drilling utilities and HVAC services. These groups of consumers are illustrated in Figure 4.1, which is a simplified diagram of the port-forward quadrant on DSA. This quadrant contains two diesel generators that supply power to thrusters 7 and 4, drilling consumers and distribution to marine, drilling utilities and HVAC consumers. The diagram is based on the one-line diagram of DSA in Appendix G. Power is distributed to the thrusters through high voltage 11 kV switchboards. Drilling consumers are supplied through a drilling switchboard in each quadrant, supplying equipment such as mud pumps, draw-works and mooring windlass (referred to as MP, AHDD and MW in the figure below) through a Variable Frequency Drive (VFD). Miscellaneous consumers such as HVAC, drilling utilities and marine services are supplied through low voltage 690 V switchboards. Marine service includes equipment such as ballast pumps, fresh water cooling pumps and fire pumps. Ventilation fans and humidifiers are included in the HVAC service. Cranes, HPU units are examples of equipment found in the drilling utility services (see electrical load analysis in Appendix H). In addition to marine, drilling and HVAC, there is also some power that is distributed to duct heaters and small power consumers through the low voltage switchboards.

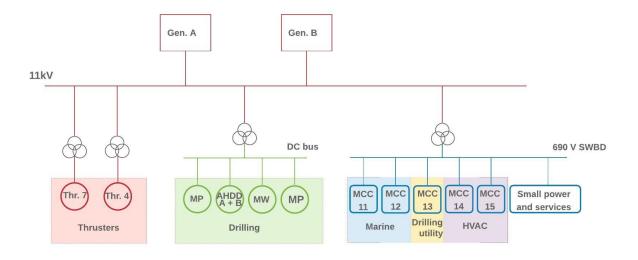


Figure 4.1: Simplified diagram of port-forward quadrant on DSA

4.1.2 Diesel generator configurations

The number of generators that are in use at any time is determined by the operational conditions and requirements for emergency preparedness. Favorable conditions require a reduced number of generators online. These conditions are often present during normal drilling operations with constant load on drilling motor and mud pumps, and when draw-works are operating on low power settings [1] in calm weather conditions. Configurations of the generator sets will influence how well generators can operate in terms of fuel efficiency, as well as determining the level of redundancy in the power supply system. Diesel engines for marine applications such as vessels with DP systems will typically have a maximum efficiency at 80 % of the maximum power output of the engine [44]. However, statistics from the DSA fuel prognosis in Appendix I reveals that the average engine load over the one-year period from Q4 in 2017 to Q4 in 2018 is only 39 %. T. Bø et al. [44] found that diesel engines that are used to power vessels with DP systems often deliver between 10-50 % of the rated power, so this is not a unique case. The effectiveness in converting fuel into mechanical energy in the diesel engines on DSA is previously described in Figure 3.2 in Section 3.3.1. The figure confirms that the fuel consumption per engine load increases with decreasing engine load, and has a maximum efficiency at around 80% load.

As previously mentioned, the power plant consists of four quadrants (Port Fwd, Stbd Fwd, Stbd Aft and Port Aft) with a total of 8 diesel engine-generator sets arranged in four engine rooms. One engine-generator set in each quadrant acts as an emergency generator which will automatically start up if an engine fails to start after a black out. Specific configurations of the diesel generators are required in order to maintain redundancy in case of a blackout. The three configurations "Open ring/No split", "2-split" and "4-split" mode are used depending on the operational conditions (see Appendix J). The No-split mode treats the whole power system as one unit, and is only used when the rig is at yard with power supply from shore.

The most common mode is the 2-split configuration which is used during transit, drilling or testing operations during calm weather conditions, and operation with position mooring. Figure 4.2 indicates how the four high voltage switchboards (HS1, HS2, HS3, HS4) supply power to the thrusters (A to H). In 2-split mode, the high voltage switchboards HS1 and HS2 are interconnected, and the same with HS3 and HS4. In case of failure on one side of the split, this configuration ensures that not more than

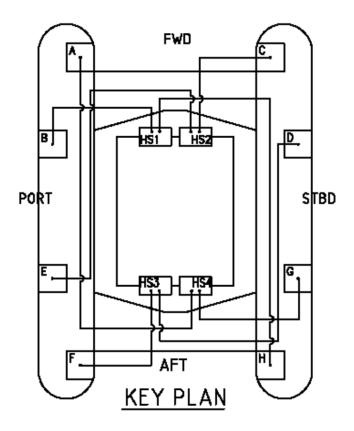


Figure 4.2: Power distribution with thrusters (A to H) and high voltage switchboards (HS1 to HS4)

one thruster in each corner of the rig loses power. An advantage for the 2-split configuration is that it is possible to operate with varying number of generators depending on the current demand. This means either one, two, three or four generators on each side of the split, which facilitates a more efficient and economic use of the generators. There is also a possibility of running a 4-split configuration in the case of demanding conditions that require maximum redundancy. Operational conditions such as drilling and testing in harsh weather conditions, start-up after a blackout and maintenance operations on the high voltage switchboard usually requires a 4-split mode. Each quadrant is operated as an individual system in the 4-split mode, meaning that one or two generators are operating in each of these units depending on the current demand. Loss of one unit is the worst case failure scenario, and the remaining units are then capable of maintaining 75 % power supply to the consumers.

4.2 Power and fuel consumption analysis

As described in Section 4.1.1, the power generated by the diesel-electric power plant on DSA is distributed to thrusters, drilling equipment, marine, drilling utilities and HVAC consumers. The share

of average power consumption for each group of consumers at DSA in the time period from 25th of January to 25th of April is presented in Figure 4.3. The electrical power is presented in this plot since it is a more stable parameter than fuel consumption [46] due to the influence of the engine load on the fuel consumption. Electrical power is also easier to measure. It reveals that marine utilities has approximately the same power demand as all other consumers combined. Drilling utility is the second largest power consumer, followed by HVAC systems. The signals from one of the motor control centers related to HVAC24 (see Appendix G) is missing, so this is a source of error.

A correlation matrix for each group of power consumers on DSA is presented in Figure 4.4. The matrix indicates a correlation of 0.527 between measured power from the drilling VFD and drilling utilities. The correlation between marine utilities and thruster VFD is 0.452, and there is also a correlation of -0.446 between marine and HVAC and -0.405 between marine utility and drilling utility. Other correlations are quite low. It is also interesting to see the power consumption in relation to different operational activities. Figure 4.5 illustrates the distribution of average (mean) and peak (maximum) power consumption from drilling consumers for each operational mode. This histogram applies to the previously mentioned time period from January to April 2019. The load will be highly dependent on location, seasonal variations, well and operation specific parameters (see Appendix F).

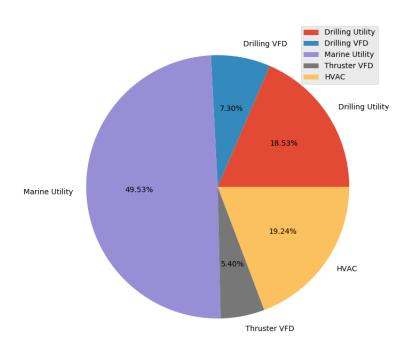


Figure 4.3: Average power consumption for each group of consumers

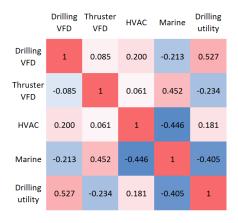


Figure 4.4: Correlation matrix for the five main groups of power consumers

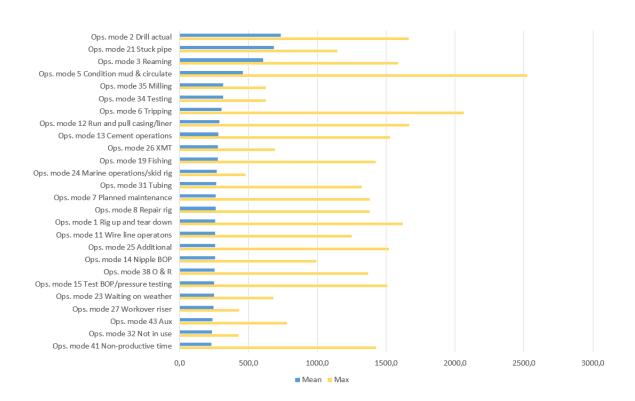


Figure 4.5: Mean and maximum power consumption [kW] for each operational mode

Correlations between power consumption through drilling VFD and the different operational modes are presented in Figure 4.6. This figure indicates that the features with strongest positive relationships with the power consumption are found at operational modes 2, 5 and 3. The strongest negative relationships are found at operational modes 43, 11 and 7.

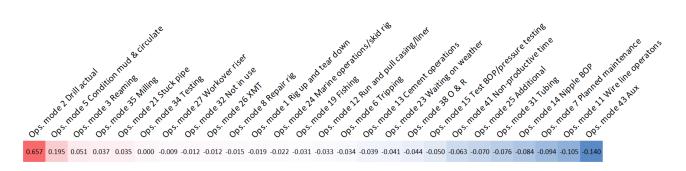


Figure 4.6: Correlation plot of each operation mode with regards to drilling VFD power consumption

4.2.1 Generated power vs. consumed power

It is interesting to study the relationship between generated and consumed power in order to get a better understanding of fuel consumption on DSA. The sum of generated power from each diesel generator in kW from th 25th of January to 25th of April 2019 is presented in Figure 4.7 together with the total consumed power (the sum of the five groups of consumers presented in Section 4.1.1) for the same time period. The mean ratio between generated and consumed power for this time period is 0.924, meaning that, on average, 92.4% of generated power reaches the consumers on the MODU. The difference between generated and consumed power is the remaining 7.6% loss. Furthermore, the loss plot reveals that the loss is not constant, but contains frequent peaks. An example of such a peak value is presented in Figure 4.8. The example takes place on the 4th of February 2019 at 17:05 UTC, and the operational activity on DSA is pulling tubing at approximately 907 m depth (see Appendix E). As seen in Figure 4.8(a), the generated power peaks in four intervals over a time period of 30 minutes. The total power consumption has the same variations but with smaller peaks, meaning that the difference between consumed and generated power peaks at these intervals. By looking at the

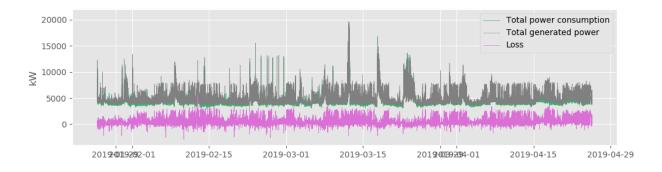
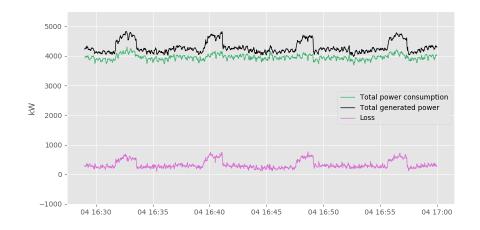


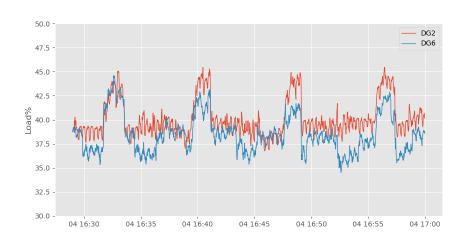
Figure 4.7: Consumed power vs generated power January - April 2019

engine load of diesel engines and the corresponding fuel consumption in Figures 4.8(b) and 4.8(c), it is clear that the same patterns are repeated.

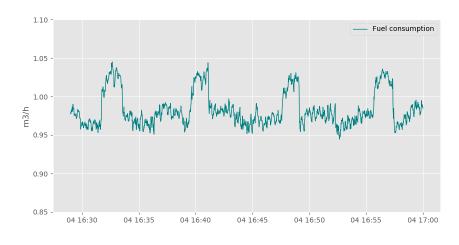
Another example is taken from the 15th of April 2019 at 15:15 UTC to demonstrate how fuel consumption varies with the engine load and number of generators online. The operational activity on DSA is time drilling at approximately 921 m depth in a well (see Appendix E), and Figure 4.9(a) the loss between generated and consumed power is stable. Diesel engines-generator sets 1, 2 and 6 are running steadily at approximately 25, 25 and 45 % engine load. The remaining five generators are not running. At a time between 15:18 and 15:19, diesel engine 2 is shut down, and diesel engine 1 increases to about 50 % load. The load is now carried by two engines instead of one. Figure 4.9(c) shows that the result is a significant decrease in fuel consumption of approximately 11% whilst the total generated power remains the same. This is because the diesel engines are now running at a more optimal engine load (as discussed in Section 4.1.2).



(a) Consumed power vs generated power

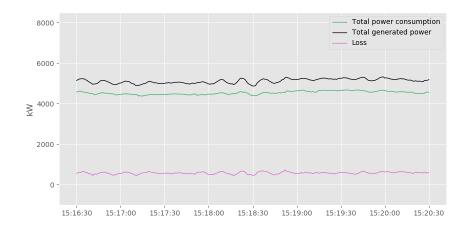


(b) Engine load of diesel engines connected to generators 2 and 6



(c) Fuel consumption plot

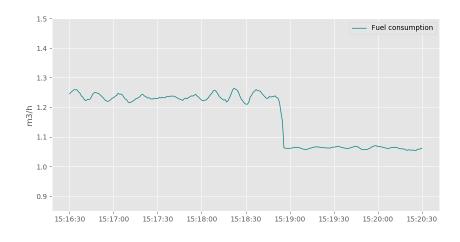
Figure 4.8: Example of power and fuel consumption on the 4th of February 2019



(a) Consumed power vs generated power



(b) Engine load of diesel engines connected to generators 1 to 8



(c) Fuel consumption plot

Figure 4.9: Example of power and fuel consumption on the 15th of April 2019

4.3 Machine learning model

An MLP model is built to predict fuel consumption as the target variable over a three month period from January to April in 2019 (as described in Section 4.2). The target inputs are presented as a time series in Figure 4.10.

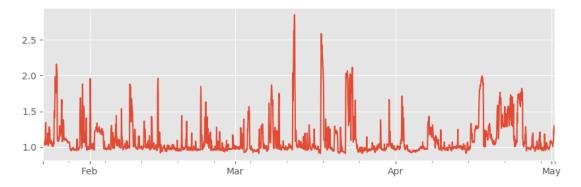


Figure 4.10: Fuel consumption over a period of three months on DSA

A correlation analysis is performed to get an understanding of which input features are important for the target value. A heat map of the input feature correlations with regards to fuel consumption is presented in Figure 4.11. Correlations are scaled from 1 (perfect positive correlation) to -1 (perfect negative correlation). The correlation plot indicates that features operational mode "Drill actual", wind speed, current speed, operational mode 23 "waiting on weather" and depth in well are the features with most significant positive relationship with the target variable. Harsh weather conditions will cause high fuel consumption for the thrusters to keep the rig stationary above the well. Weather observations such as wind speed and wind direction will therefore be relevant metocean data for the predictive machine learning model. The draught of the MODU has the most negative correlation with fuel consumption.

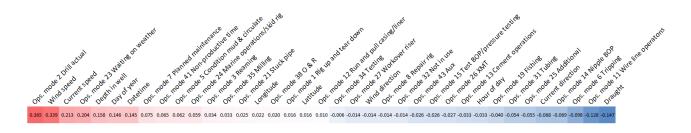


Figure 4.11: Correlation plot of input features with regards to fuel consumption

4.3.1 *Selecting neural network structure*

MLP models with different number of neurons in the hidden layers are tested and compared to find the model with best performance measured by the RMSE. The notation MLP(a,b,c) will be used to describe the architecture of the MLP models where a, b and c are the number of input neurons, number of hidden layers and number of outputs, respectively. Initial model parameters are presented in Table 4.1. Table 4.2 is the result from MLP(38,1,1), MLP(38,2,1) and MLP(38,3,1) models, and the best RMSE value is marked with bold numbers.

Table 4.1: Parameters for the MLP model in Table 4.2

Solver	Activation function	Max iterations	Early stopping	Tolerance	Initial learning rate
Adam/SGD	ReLU	40	10 epochs	0.0001	0.001

Table 4.2: Performance of different MLP architectures with Adam and SGD solver

ANN	Neurons in	Neurons in Adam solver	
structure	hidden layer	RMSE	RMSE
MLP(38,1,1)	20	0.1355	0.1397
	25	0.1280	0.1358
	30	0.1258	0.1319
	38	0.1192	0.1271
MLP(38,2,1)	20-20	0.1108	0.1232
	25-25	0.1024	0.1141
	30-25	0.1020	0.1121
	30-30	0.0992	0.1092
	38-38	0.0919	0.1038
MLP(38,3,1)	20-20-20	0.0971	0.1165
	25-25-25	0.0899	0.1057
	30-30-30	0.0845	0.1034
	38-30-38	0.0800	0.0965
	38-38-38	0.0770	0.0953

The MLP structure with highest performance is the MLP(38,1,1), MLP(38,2,1) and MLP(38,3,1) is with 38 neurons in each hidden layer. It is now useful to investigate how changing the α parameter in the L2 regularization term will influence the RMSE. The best models from Table 4.2 are now tested

using α parameters in the range between 1 and 0.0001 in Table 4.3 below with both the Adam and SGD solver.

Table 4.3: Tuning the α parameter

ANN	Neurons in	α	Adam solver	SGD solver
structure	hidden layer	u	RMSE	RMSE
MLP(38,1,1)	38	1.0000	0.1667	0.1649
		0.1000	0.1306	0.1298
		0.0100	0.1305	0.1263
		0.0010	0.1194	0.1270
		0.0001	0.1192	0.1271
MLP(38,2,1)	38-38	1.0000	0.1678	0.1669
		0.1000	0.1164	0.1161
		0.0100	0.0939	0.1043
		0.0010	0.0901	0.1036
		0.0001	0.1919	0.1038
MLP(38,3,1)		1.0000	0.1717	0.1703
		0.1000	0.1145	0.1087
	38-38-38	0.0100	0.0860	0.0982
		0.0010	0.0810	0.0961
		0.0001	0.0770	0.0953

The highest performing model with the Adam solver and SGD solver has an RMSE of 0.0770 and 0.0953, respectively. Figure 4.12 is the loss curve for these two models. The Adam solver model stopped after 16 iterations when the training loss did not improve more than the tolerance of 0.0001 for 10 consecutive epochs. The SGD solver was set to stop after 40 iterations. The loss curve indicates that the loss function stabilizes faster for the Adam solver than for the SGD solver. These results prove that the Adam solver performs better than the SGD solver. The best MLP model (with RMSE=0.0770) is now tested with different learning rates to find the optimal rate. The accuracy is measured as the R^2 value of both the training set and test set. Figure 4.13 indicates that the peak value for accuracy is found at the learning rate $\varepsilon = 0.001$ for both the test set and the training set.

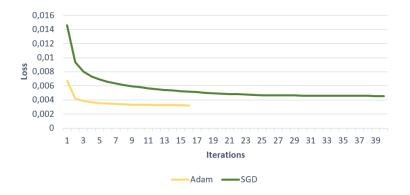


Figure 4.12: Loss curve

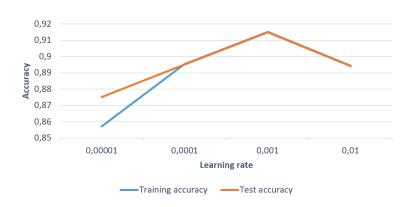


Figure 4.13: Comparison of training and test accuracy (R^2) as a function of learning rate

4.3.2 *Model results*

The model with the best performance is the MLP model with $\alpha=0.0001$ and the Adam solver for weight optimization. The number of input features is 38, and there are two hidden layers containing 38 neurons each. This means that there are $38 \cdot 38 = 1444$ weights between the input and the hidden layer. With a single neuron the in output layers, there is $38 \cdot 1 = 38$ weights between the hidden layer and the output layer. The learning rate is set to 0.001. Figure 4.14(a) is the resulting plot for the model performance of the MLP(a,b,c) model with Adam weight optimization and 38 neurons in each of the three hidden layers. This scatter plot compares the predicted values with the actual output values in the test set. The dotted line represents the perfect relationship between prediction and actual value where $\hat{y} = y$. This MLP regression model predicts the fuel consumption for the test set with a MAE, MSE and RMSE of 0.0464, 0.0059 and 0.0770, respectively. A probability density plot of the residual errors between real and predicted consumption is presented in Figure 4.14(b)which indicates that residual errors are concentrated around 0. The mean residual is -0.005335.

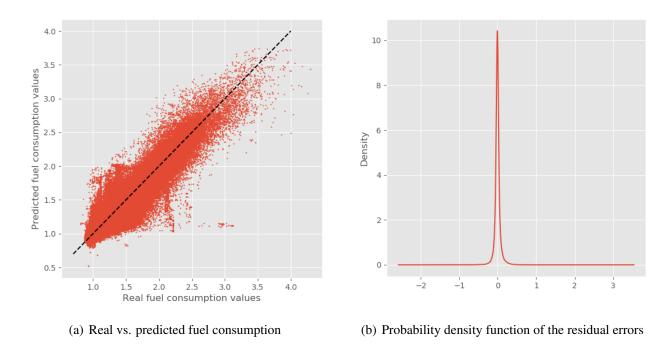


Figure 4.14: Model performance on test set

Figure 4.15 illustrates how the MLP model predicts fuel consumption in DSA over a three day period outside the training set from 25.04.2019 to 28.04.2019. This figure is an example of how well the machine learning model predicts short-term fuel consumption in a time series.

4.3.3 *Other forecasting methods*

The proposed MLP model is useful when making short-time predictions based on multiple known input variables, i.e. weather forecasts and known operational plans for the upcoming days or hours.

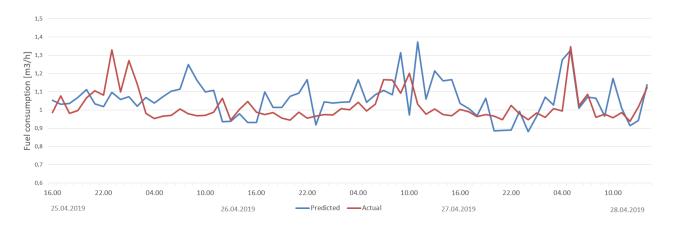


Figure 4.15: Predicted vs. actual fuel consumption from 25.04.2019 to 29.04.2019

Other relevant uses of machine learning and time series forecasting could be utilized to make long term predictions for fuel consumption based on seasonal variations and trends. The Autoregressive Integrated Moving Average (ARIMA) is one of the stochastic methods for long term time series forecasting. ARIMA is in fact one of the most widely used models for this purpose [22]. Autoregression is based on the principle that there is a correlation between the current observation and all past observations. The ARIMA model can make predictions based on univariate (one input) or multivariate (several inputs) time series. ARIMA is not implemented as part of thesis due to limited time period in the data set, however, this could be implemented at a later stage when more data is available. Forecasting with exponential smoothing is another alternative forecasting method where the future values of a time series is predicted as a weighted average between previous forecasts and the current values [47]. This algorithm is based on an exponential decrease in weights, meaning that recent observations is more important for the model than older data. Exponential smoothing is an alternative to the moving average algorithm where all observations are weighted equally. Forecasting with exponential smoothing is a very effective technique, and is able to model trends and seasonality in a time series. Since short-term forecasts are more relevant than long term trends and seasonal behaviours, this methods has not been applied to the data set in this thesis.

4.4 Forecasting as a performance tool

Determining performance goals for fuel consumption on a MODU is a difficult task due to the large variations in weather and operational conditions that influence the consumption. The machine learning model provides an estimate of the fuel consumption based on weather forecast and operational plan for the upcoming hours. This estimate can be presented to offshore personnel through a dashboard together with a set of goals for the next 12 or 24 hours. A time series (see Figure 4.16) with past consumption and future predictions is presented to the personnel through a dashboard, together with an upper and lower limit to indicate "bad" and "good" performance. For example, if the fuel consumption over the next hours fall between the predicted value and the lower limit, the performance goal is reached. If the actual consumption falls between predicted forecast and the upper limit, the goal is not reached. For this example, the upper and lower limit is set as 10% above and below the predicted forecast, respectively. Setting an upper and lower limit is difficult due to large uncertainties in weather forecasts and operational plans for the upcoming hours. One must also account for the uncertainty of

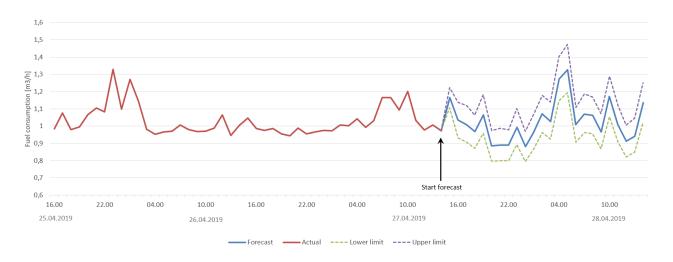


Figure 4.16: Performance measure based on forecast of fuel consumption

the MLP model. Determining upper and lower limits will likely require some trial and error before finding appropriate values.

In addition to the information given in Figure 4.16, a dashboard could contain information such as weather forecast and operational plans for the next 12 or 24 hours, safety alerts, performance statistics or other performance goals. A similar approach for Key Performance Indicator (KPI) predictions through machine learning has been used by accounting, consulting and technology firm Crowe [48]. Crowe presents KPIs within the health care industry based on moving average predictions, multivariate and univariate time series forecasting. The result is a dashboard with overview of historical data and future predictions for a target variable. Figure 4.17 is an example of how fuel predictions can be implemented into a dashboard as a performance tool for offshore personnel. This fuel performance concept is inspired by Crowe's KPI prediction tool and performance philosophies such as "Perfect well" developed by Equinor and Shell's "Drilling The Limit" philosophy. Please note that Figure 4.17 is only an illustrative example and not an exact representation of the operational plans, performance over the last weeks etc.

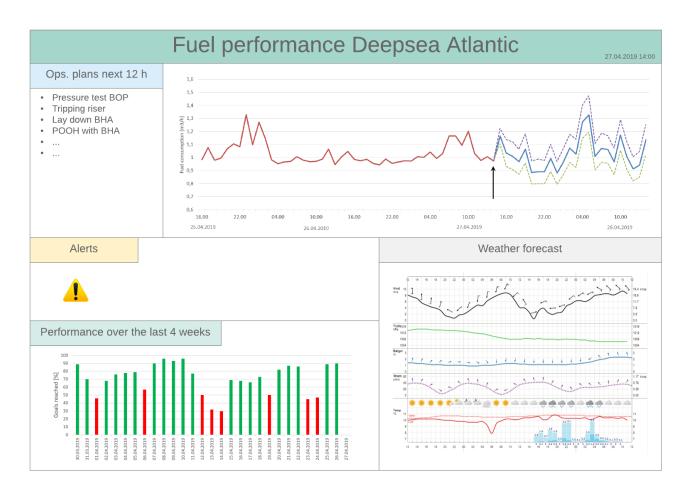


Figure 4.17: Example of dashboard layout for presenting fuel consumption related performance goals

5. Discussion

DSA is powered by a diesel-electric power plant, and power is distributed to thrusters, drilling equipment, marine utilities, drilling utilities and HVAC consumers. Marine utilities represent the largest power consumption in the time period from 25.01.2019 to 25.04.2019, followed by HVAC and drilling utilities. A correlation analysis is performed for the input variables in the machine learning model in order to understand how each input influences the target variable. Wind speed, current speed and "waiting on weather" indicate harsh weather conditions, resulting in higher power demand from thrusters to keep the floating rig stationary above the well. As expected, operational mode "Drill actual" also has high impact on fuel consumption. Increased draught has large negative correlation with fuel consumption, however, relevant literature concludes that a larger draught will increase fuel consumption on ships due to the increased resistance of the ship's hull [49]. Operational modes such as wireline operations and tripping have negative correlation with the fuel consumption.

Choice of model for this thesis is based on relevant research on predictive modelling based on machine learning and recommendations provided by the Scikit-learn map in Figure 2.3. MLP artificial neural networks are recommended as a simple tool for making predictions from large data sets [21]. For future research, it could be relevant to investigate the use of other models such as an artificial neural network with Long Short-Term Memory (LSTM) (as applied in a previous thesis by A. Karimi [31]), support vector regressor (studied by K. Mohammadi et al. [24]) or an ensemble regressor. Choice of input variables was based on available data, however, further improvements in the model accuracy can be made by adding more input features. Wave data such as maximum wave height, significant wave height and mean wave period has not been available for this data set. This would likely improve the accuracy if implemented into the MLP model. Data regarding the number of personnel on board could also be relevant, as well as data to determine if station-keeping is performed by thrusters, mooring or a combination of both.

A predictive model with best performance is obtained by training an MLP with three hidden layers with weight optimization by the Adam solver. The MLP regression model predicts the fuel consumption for the test set with MAE, MSE and RMSE of 0.0464, 0.0059 and 0.0770, respectively. The model performance scatter plot in Figure 4.14(a) shows that the predicted values for the test set is concentrated around the dotted line where $\hat{y} = y$. The probability density function in Figure 4.14(b)

indicates that the residual error is concentrated around 0. The mean residual of -0.005335 implies that the difference between real and predicted value is close to zero and that, on average, the predicted value slightly overestimates the real value. This should be considered when setting performance goals based on forecasts.

As mentioned in Section 2.4, one of the main objectives of time series analysis is related to forecasting and control. Implementing the predictive model in the daily operations on a MODU has good potential to support decision-making and provide offshore personnel with a forecast of the fuel consumption over the next days or hours. Weather forecasts and the upcoming operational plans are easily loaded into the model, and the model gives an estimate of the upcoming fuel consumption based on historical data in the training set. It is possible to use the predicted values of fuel consumption to set fuel consumption related performance goals for offshore personnel, as presented in Figure 4.16. This process has similarities to the "Perfect well" approach developed by Equinor. "Perfect well" estimates the minimum time in which a well could possibly be drilled based on historical data. Determining the "perfect" minimum fuel consumption is, however, a difficult task due to the large amount of contributing factors influencing the fuel consumption and uncertainties of the model and weather forecasts. Using a dashboard to present current status and short term performance goals to offshore personnel will solve several causes leading to poor fuel efficiency (as identified in the fishbone diagram in Figure 1.1), removing both personnel and technology from the fishbone diagram.

An important part of achieving such fuel performance related goals is to determine which factors we are able to change related to fuel consumption. Firstly, one can not change the weather conditions. However, it is possible to adjust the vessel heading to reduce wave action [45]. Operational modes are also not possible to change, however, the generator configuration can in some cases be changed if allowed by requirements for emergency preparedness. As described through an example in Section 4.2.1, reducing from 3 to 2 diesel engines will cause significant reduction in fuel consumption even though power demand (in kW) remains the same. Reducing power consumption related to equipment which is critical for drilling efficiency, however, will be counter productive if this leads to reduced efficiency in the drilling operation. Power consumption from equipment such as HVAC, third party consumers and certain drilling utilities which are not critical for the efficiency in operations could be reduced.

6. Conclusion

A machine learning based model for predicting fuel consumption on a MODU was presented in this thesis. Weather data, positional data and operational activities on the MODU were used as input features for the mode. The results indicate that an artificial neural network and the MLP regressor is a suitable algorithm for predictive modelling of fuel consumption on a MODU. Weight optimization by the Adam solver yields better results than the SGD solver for weight optimization. The best parameter for the L2 regularization term is 0.0001 with the Adam solver, and the optimal learning rate is ε =0.001. The MLP regression model predicts the fuel consumption for the test set with an RMSE of 0.0770. A dashboard layout for presenting offshore personnel with fuel consumption related performance goals based on predictive modelling is also presented in this thesis. Implementing such a performance tool has the potential to result in similar effects as seen with the implementation of "Perfect well" approach in Equinor and Shell's "Drilling the Limit" performance philosophies.

The following is a list of recommendations for further research on the subject:

- Add more input features (wave data, mooring, personnel on board, etc.)
- Predict fuel consumption for different groups of consumers, such as thrusters/station-keeping or HVAC
- Combine machine learning model with methods for time-series forecasting such as ARIMA
- Investigate the use of LSTM (another neural network approach), support vector regressor or an ensemble regressor as an alternative to MLP
- Extend the machine learning model to learn from real-time data (online learning)

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A. Conference paper

Machine Learning Based Approach to Predict Short-Term Fuel Consumption on Mobile Offshore Drilling Units

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Abstract - Application of machine learning models for optimization and improved decision-making has a great potential in the drilling industry. This paper demonstrates a model for predicting fuel consumption on a Mobile Offshore Drilling Unit (MODU) with a Multi-layer Perceptron (MLP) artificial neural network. The model is proposed as a tool for setting fuel consumption related performance goals for offshore personnel on a MODU. Operational and environmental data have been used as input variables for the model with a dataset split into 80% training set and 20% test set. The highest performance is obtained with two hidden layers with 38 nodes each. The Adam solver performs better than the Stochastic Gradient Descent (SGD) solver for weight optimization, and the best α parameter for the L2 regularization term is 0.0001 with the Adam solver. The MLP regression model predicts the fuel consumption for the test set with a Root Mean Squared Error (RMSE) of 0.0770. This result indicates that artificial neural networks and the MLP regressor is a suitable algorithm for predictive modelling of fuel consumption on a MODU.

Keywords — Fuel consumption, machine learning, predictive modelling, multi-layer perceptron

I. INTRODUCTION

A floating semi-submersible drilling rig, or Mobile Offshore Drilling Unit (MODU), is powered by a dieselelectric power plant. The power demand varies with different operational activities and environmental conditions on the MODU [1]. Studying the impact of these variations on the fuel consumption could be one of the methods to improve energy management on a MODU. Improved energy management results in a reduction in fuel expenditures CO₂ emissions [2]. In this context, setting performance goals related to fuel consumption based on short-time predictions provides an approach for improving energy management on a MODU.

A machine learning approach has previously been used to predict fuel consumption in commercial buildings and for automobiles [3, 4]. Hence, it should be possible to use a similar approach for predicting fuel consumption on a MODU. The wide range of machine learning applications is enabled by the extensive research on the topic [5], as well as access to large amounts of operational data availability of affordable computers with high processing capabilities. Predictive modelling has many applications in the drilling industry. C. Hegde and K. Gray [6] developed a machine learning model for optimization of drilling parameters by modelling the Rate of Penetration (ROP), the Torque on Bit

(TOB) and the Mechanical Specific Energy (MSE). Other studies have been performed on the prediction of fracture gradients [7], bubble-point pressure and formation-volume factor [8] and classifying rock type at a drilling bit [9]. Hence, the use of machine learning as a tool for optimization and improved decision-making has already proven great potential in the drilling industry. Machine learning technologies such as predictive modelling, classification and anomaly detection is therefore thought to be an essential part of the digitization of the drilling industry.

An artificial neural network model is selected for the machine learning algorithm for this paper. The artificial neural network is built as a system of interconnected processing units that mimic the biological neurons in the human brain [10]. According to R. B Gharbi and G. A. Mansoori, artificial neural networks are one of the three main technologies within Artificial Intelligence (AI) in the oil and gas industry together with fuzzy logic and expert systems [5]. For instance, a fuzzy expert system based approach was used for functionality failure risk analysis assessments for subsea pipeline systems [11]. Taking part in these developments within AI will be a necessity for offshore operators in order to stay competitive in the future, especially with the current global focus on digitization in the industry [12]. Smart use of data is in fact one of the top priorities in the oil and gas sector today [12]. The objective of this manuscript is to demonstrate a case study of the use of a machine learning approach in predicting short-term fuel consumption on a MODU operating on the Norwegian continental shelf. Predictions have been based on potential operational and environmental factors' variations (i.e. input to the machine learning model). The developed machine learning model is proposed as a tool for improved decision-making and for setting fuel consumption related performance goals for offshore personnel onboard on a MODU.

II. INDUSTRIAL CHALLENGE

Drilling rigs are large fuel consumers where diesel is used to generate electric energy to be consumed by various equipment on the rig. The fuel consumption on a MODU is mainly due to drilling activities, station-keeping, marine utilities, Heating, Ventilation and Air Conditioning (HVAC), and third-party consumers. It is important to analyze the variations of fuel consumption in order to

understand the impacts of operational and environmental conditions on the MODU. Excessive fuel consumption has large economic and environmental impacts. Hence, to address the aforementioned is a significant challenge and a necessity for the drilling rig operators. Although renewable energy sources and other alternative sources such as hydrogen may be the solution to reduce emissions in the long term, the focus for this paper is to utilize existing technology to improve fuel efficiency in the short term.

1) Cause and effects: A fishbone diagram of the cause and effects related to poor fuel efficiency is illustrated in Fig. 1.

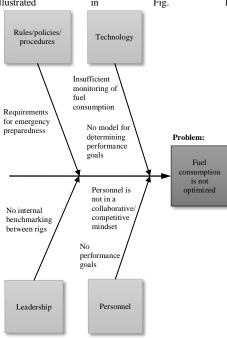


Fig. 1. Fishbone diagram of the causes and effects related to fuel consumption on a MODU.

The figure indicates how rules/policies/procedures, technology, leadership and personnel contributes to the problem of poor fuel efficiency on a MODU. Rules related to emergency preparedness dictate how many diesel generators must run simultaneously in case of an event such as drift-off, loss of a generator or a well control incident. This causes the generators to run at unfavorable load factor where fuel efficiency is low. Contributing factors could also be insufficient monitoring of fuel consumption and lack of tools to evaluate performance. Currently, as the personnel do not receive performance goals, the fuel efficiency has not been taken into consideration as a priority in an average working day. Financial incentives for reducing fuel consumption is another contributing factor. However, this is highly

dependent on the type of contract, i.e. if the fuel expenditures are paid by the client (or the company) hiring the drilling rig. Moreover, internal benchmarking is another tool that has a potential for setting performance goals. Nevertheless, to date, none have been taken into consideration.

1) Performance tool:

One of the key objectives of predictive modeling is that it provides the ability to take actions based on forecasts. This makes predictive modelling especially relevant for various industrial applications. However, a common challenge regarding fuel management on a MODU is lack of tools to determine whether the fuel consumption is excessive or not. Equinor's "perfect well" approach for making time estimates for drilling and well operations is an example of successful implementation of such a performance tool [13, 14]. The perfect well time is described as "the minimum time in which a well could possibly be drilled" [13] and is calculated from historical data on similar wells. This historical data provides the shortest time recorded for each sub-operation, and adding each sub-operation together gives the time estimate for the "perfect well" [14]. This is a method for setting goals for the offshore personnel with focus on continuous improvement. The "perfect well" approach contributed to reducing the drilling time for onshore wells in the US from over 50 days to less than 10 days, proving that setting the offshore personnel in a collaborative and competitive mindset is useful for the efficiency in drilling operations

III. METHODOLOGY

Case study and action research based mixed approach has been used as the research methodology [15, 16]. The machine learning based approach has been used to perform multi-criteria analysis (i.e. by taking environmental and operational variables as the input) for predicting fuel consumption.

- 1) Research methodology: A case study is a research method which investigates a contemporary phenomenon within its real-life context [15]. Conducting a case study for research purposes is be a useful strategy when posing "how" or "why" questions. The present paper poses the question of how to model predictions of fuel consumption based on why fuel consumption for a MODU is not optimized. A case study is therefore considered as a suitable approach for this purpose. The case study is conducted with the five steps of the action research cycle [16]; (1) identification of the problem, (2) collection and structuring of data, (3) interpretation of data, (4) actions based on data and (5) reflection.
- 2) Data collection and pre-processing methodology: Relevant data such as operational modes and weather conditions have been collected and used to train the model using a case study of a MODU operating on the Norwegian continental shelf. The target variable has been the fuel consumption and it is calculated based on the measured

power output from the diesel generators. Data from the MODU is imported as raw data and resampled to one data point per second. Operational modes are categorical inputs and are therefore presented in matrix form using one-hotencoding. This method uses the binary 1 and 0 values to indicate if the operational mode is active or not. A complete list of the target value and input variables is presented in Table I. As the data used to train the model is not possible to use for verification of its accuracy, the collected data set has been split into a training set (i.e. 80% of the data set) and a test (i.e. 20% of the data set). Another preprocessing step has been carried out to remove the mean and scaling input variables to unit variance as the solvers used are sensitive to feature scaling.

TABLE I TARGET VALUE AND INPUT VARIABLES

Variable	Unit	
Fuel consumption	m ³ /h	
Datetime (UNIX)	-	
Wind speed	m/s	
Wind direction	rad	
Current direction	rad	
Current speed	m/s	
Depth in well	m	
Draught	m	
Latitude	rad	
Longitude	rad	
Hour of day	-	
Day of year	-	
Ops. mode 1 Rig up and tear down	-	
Ops. mode 2 Drill actual	-	
Ops. mode 3 Reaming	-	
Ops. mode 5 Condition mud & circulate	-	
Ops. mode 6 Tripping	-	
Ops. mode 7 Planned maintenance	-	
Ops. mode 8 Repair rig	-	
Ops. mode 11 Wire line operations	-	
Ops. mode 12 Run and pull casing/liner	-	
Ops. mode 13 Cement operations	-	
Ops. mode 14 Nipple BOP	-	
Ops. mode 15 Test BOP/pressure testing	-	
Ops. mode 19 Fishing	-	
Ops. mode 21 Stuck pipe	-	
Ops. mode 23 Waiting on weather	-	
Ops. mode 24 Marine operations/skid rig	-	
Ops. mode 25 Additional	-	
Ops. mode 26 XMT	-	
Ops. mode 27 Workover riser	-	
Ops. mode 31 Tubing	-	

Variable	Unit	
Ops. mode 32 Not in use	-	
Ops. mode 34 Testing	-	
Ops. mode 35 Milling	-	
Ops. mode 38 O & R	-	
Ops. mode 41 Non-productive time	-	
Ops. mode 43 Aux	-	

3) Choice of model: The selected model is a Multi-layer Perceptron (MLP) regression algorithm, which is a type of feed forward artificial neural network [17]. Fig. 2 illustrates an example of a feed forward neural network with a single hidden layer containing two nodes. MLP regression is seen as an extension of linear regression and is useful when predicting target values from one or multiple input features. Choice of parameters for the fuel consumption model, such as hidden layers, solver and α parameter, is based on a grid search over relevant parameter values.

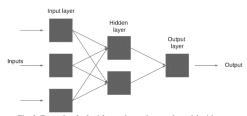


Fig. 2. Example of a feed forward neural network model with one hidden layer.

- 4) Activation function: The Rectified Linear Unit (ReLU) function is the selected activation function for the hidden layers. This function sets the output to 0 until the weighted average reaches zero. After this threshold, the function is linear [18, 19]. The ReLU function is expressed mathematically as $f(x) = \max(0,x)$.
- 5) Layers: The MLP model contains an input layer, an output layer and one or more hidden layers in between. Selecting a suitable number of hidden layers and the number of neurons in each hidden layer is important when building the neural network architecture. These are in fact the most important features of the model. A good starting point is to use one or two hidden layers with the same number of neurons as the number of input features [18], or around 2/3 of the size of the input layer [19]. Underfitting could occur if the number of hidden layers and neurons is too low for a complex problem. Too many neurons or hidden layers, on the other hand, could result in overfitting [12].
- 6) Learning: Connection weights are adjusted by comparing the expected output to the actual output from each node. Error between expected and actual output in the MLP model is evaluated by the square error loss function, written as:

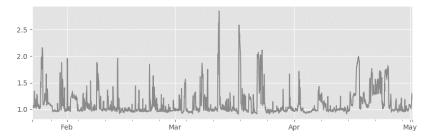


Fig. 3. Fuel consumption $[m^3/h]$ over a period of three months on a MODU.



Fig. 4. Feature correlations from high (black) to low (white).

$$\operatorname{Loss}(\overline{y}, y, W) = \frac{1}{2} |\overline{y} - y| + \frac{\alpha}{2} |W|^2$$
 (1)

where \bar{y} is the predicted value, y is the actual value and W is the connection weight. $\frac{\alpha}{2}|W|^2$ is the L2-regularization term which is added to the loss function to prevent overfitting by shrinking weights with large values. The regularization term contains an α value which is a parameter that controls how large the penalty, or shrinking, should be for the regularization term [20].

Minimizing the loss function increases model accuracy, and this is done by weight optimization. Backpropagation is used to pass the updated weight back to the previous layers. The change in weights is determined from gradient descent by calculating the partial derivative of the loss function to see how parameters should be changed to minimize the loss. The change in weights is calculated from the following equation:

$$W^{(i+1)} = W^i - \varepsilon \nabla Loss_W^i$$
 (2)

where i is the iteration step and ϵ is the learning rate, which is the step size for gradient descent [20]. Weights are updated repeatedly until the algorithm stops at 40 iterations, or if the validation score is below a certain value for 10 consecutive iterations. Weight optimization is performed by implementing a learning algorithm. Both the Adam and Stochastic Gradient Descent (SGD) solvers are considered for the fuel consumption model. Both solvers are stochastic optimizers. The Adam solver is developed by Jimmy Ba *et al.*, and is suitable for relatively large data sets [21]. Weight optimization by SGD supports adaptive

learning rates where the learning rate is reduced when the improvement in training loss is below a set value.

6) Performance measure: There are numerous methods for measuring the performance of a predictive model. A common method is the Root Mean Squared Error (RMSE), which is the root of the average squared difference between real values and the predicted values. RMSE is calculated by the following equation:

$$RMSE = \sqrt{\frac{1}{n} \sum_{i=0}^{n} (y_i - \bar{y}_i)^2}$$
 (3)

where n is the number of samples.

IV. RESULTS

A. Fuel Consumption and Feature Correlations

Fig. 3 illustrates the hourly fuel consumption over a period of three months in 2019 for a MODU operating in the North Sea. The mean value for fuel consumption in this time period is 1.11 m³/h. Feature correlations for this time period (Fig. 4) indicate that operational mode 2 "Drill actual", wind speed, current speed, operational mode 23 "Waiting on weather" and the depth in well are the features with most influence on the target variable.

B. Model Results

MLP models with different number of neurons in the hidden layers are tested and compared to find the model with best performance measured by the RMSE. The

notation MLP(a,b,c) will be used to describe the architecture of the MLP models where a, b and c are the number of inputs, number of hidden layers and number of outputs, respectively. Table II shows the results from MLP(38,2,1) and MLP(38,3,1) models with different number of neurons in the hidden layers. The α parameter is set to 0.0001. The Adam and SGD learning rate is set to be adaptive from 0.001. The tolerance is set to 0.0001.

TABLE II NUMBER OF NEURONS IN HIDDEN LAYER

MLP model	Neurons in hidden layers	"Adam" RMSE	"SGD" RMSE
MLP (38,2,1)	20, 20	0.1108	0.1232
MLP (38,2,1)	25, 25	0.1024	0.1141
MLP(38,2,1)	30, 25	0.1020	0.1121
MLP (38,2,1)	30, 30	0.0992	0.1092
MLP (38,2,1)	38, 38	0.0919	0.1038
MLP (38,3,1)	20, 20, 20	0.0971	0.1165
MLP (38,3,1)	25, 25, 25	0.0899	0.1057
MLP (38,3,1)	30, 30, 30	0.0845	0.1034
MLP (38,3,1)	38, 30, 38	0.0800	0.0965
MLP (38,3,1)	38, 38, 38	0.0770	0.0953

The MLP structure with highest performance is the MLP(38,2,1) and MLP(38,3,1) with 38 neurons in each hidden layer. It is now useful to investigate how changing the α parameter influences the RMSE. The best models from Table II are tested using α parameters in the range between 1 and 0.0001 in Table III with the Adam and SGD solver. The best model performance for the MLP(38,2,1) and MLP(38,3,1) model is marked with bold numbers. The lowest overall RMSE is achieved with the Adam solver with $\alpha=0.0001$. Fig. 5 is the loss curve for this model as well as the best model with SGD solver. The Adam solver model stopped after 16 iterations when the training loss did not improve more than the tolerance of 0.0001 for 10 consecutive epochs. The SGD solver was set to an early stop after 40 iterations.

MLP model	Neurons in hidden layers	α	«Adam» RMSE	«SGD» RMSE
MLP(38,2,1)	38, 38	1.0000	0.1678	0.1669
MLP(38,2,1)	38, 38	0.1000	0.1164	0.1161
MLP(38,2,1)	38, 38	0.0100	0.0939	0.1043
MLP(38,2,1)	38, 38	0.0010	0.0901	0.1036
MLP(38,2,1)	38, 38	0.0001	0.0919	0.1038
MLP(38,3,1)	38, 38, 38	1.0000	0.1717	0.1703
MLP(38,3,1)	38, 38, 38	0.1000	0.1145	0.1087
MLP(38,3,1)	38, 38, 38	0.0100	0.0860	0.0982
MLP(38,3,1)	38, 38, 38	0.0010	0.0810	0.0961
MLP(38,3,1)	38, 38, 38	0.0001	0.0770	0.0953

The lowest overall RMSE is achieved with the Adam solver with $\alpha=0.0001$. Fig. 5 is the loss curve for this model as well as the best model with SGD solver.

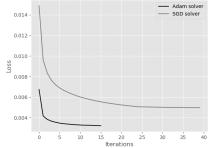


Fig. 5. Loss curve for the MLP model.

The Adam solver model stopped after 16 iterations when the training loss did not improve more than the tolerance of 0.0001 for 10 consecutive epochs. The SGD solver was set to an early stop after 40 iterations. Fig. 6 is the resulting plot for the model performance of the MLP(38,3,1) model with Adam weight optimization and 38 neurons in both hidden layers. This scatter plot compares the predicted values with the actual output values in the test set. The dotted line represents the perfect relationship where $\overline{y}=y$. A probability density plot of the residual errors between real and predicted consumption is presented in Fig. 7, and indicate that the residual error is concentrated around 0. The mean residual is -5.335e-3.

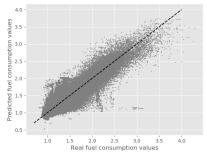


Fig. 6. Model performance on test set.

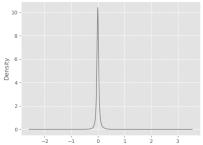


Fig.7. Probability density function of the residual errors.

V. DISCUSSION

A correlation analysis is performed for the input variables in order to understand how each input influences the target variable. Wind speed, current speed and "waiting on weather" indicate harsh weather conditions, resulting in higher power demand from thrusters to keep the floating rig stationary above the well. As expected, operational mode 2 "Drill actual" also has high impact on fuel consumption. A predictive model with best performance is obtained by training an MLP with three hidden layers with weight optimization by the Adam solver. The MLP regression model predicts the fuel consumption for the test set with a mean absolute error, mean square error and root mean square error of 0.0464, 0.0059 and 0.0770, respectively. The model performance scatter plot in Fig. 6 shows that the predicted values for the test set is concentrated around the dotted line where $\overline{v} = v$. The mean residual indicates that the difference between real and predicted value is close to zero and that, on average, the predicted value slightly overestimates the real value.

Implementing this predictive model in the daily operations on a MODU has good potential to support decision-making and give offshore personnel a forecast of the fuel consumption over the next days or hours. Weather forecasts and the upcoming operational plans are easily loaded into the model, and the model gives an estimate of the upcoming fuel consumption based on historical data in the training set. Table IV illustrate predictions using the proposed machine learning based approach. Only the three most important features (ops. mode 2, wind speed and current speed) are described in this table.

TABLE IV
ILLUSTRATIVE PREDICTIONS OF FUEL
CONSUMPTION

Ops. mode 2 "Drill actual"	Wind speed	Current speed	Actual value	Predicted value
0	7.858465	0.285602	0.988064	0.993091
0	20.76176	0.882120	2.532198	2.501048
0	9.541561	0.865391	1.003447	1.037735
0	5.131526	0.521386	1.206436	1.196783
1	18.777922	0.730153	1.112798	1.190533
0	3.267473	0.541350	1.281728	1.300634
0	17.456802	0.927621	1.105952	1.120031

It is possible to use these predicted values of fuel consumptions to set performance goals for offshore personnel, much like the "perfect well" approach developed by Equinor.

VI. CONCLUSION

Results from this paper indicates that artificial neural networks and the MLP regressor is a suitable algorithm for predictive modelling of fuel consumption on a MODU. Weight optimization by the Adam solver yields better

results than the SGD solver for weight optimization. The best α parameter for the L2 regularization term is 0.0001 with the Adam solver. The MLP regression model predicts the fuel consumption for the test set with an RMSE of 0.0770. The following is a list of recommendations for further research on the subject:

- Predict fuel consumption for different groups of consumers, such as thrusters/station-keeping or HVAC.
- Combine machine learning model with methods for time series forecasting such as Autoregressive Integrated Moving Average (ARIMA).

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B. Python scripts

Daily drilling log

June 10, 2019

1 Daily drilling log

1.0.1 Import necessary packages and load data

```
In [2]: # Import packages
       %matplotlib notebook
       import pandas as pd
       import matplotlib.pyplot as plt
       import numpy as np
       import datetime as dt
       from matplotlib import style
       style.use('ggplot')
       from pandas import datetime
       from pandas.plotting import register_matplotlib_converters
       register_matplotlib_converters()
       import seaborn as sns
In [3]: # Load Excel file
       time_log=pd.read_excel('DSA_log.xlsx', sheet_name = 'Main', skiprows=2, usecols=('A,C,I
       time_log.head(5)
Out[3]:
                  Date
                               Start Time Depth Operation Code \
       2805 2019-01-20 2019-01-20 00:00:00
                                                  24.60
                                           0.0
                                                         24.00
       2804 2019-01-20 2019-01-20 00:20:00
                                                         24.73
       2803 2019-01-20 2019-01-20 09:45:00 0.0
       2802 2019-01-20 2019-01-20 12:00:00 0.0
                                                         24.73
       2801 2019-01-20 2019-01-20 18:00:00 0.0
                                                          24.20
                   Operation Code Name
       2805 YARDSTAY/MAINTENANCE STOP
       2804 IN TRANSIT / SKID RIG
       2803
                            DP TRIALS
       2802
                            DP TRIALS
             ANCHOR HANDLING ARRIVAL
```

1.0.2 Data cleaning

```
In [5]: # Add datetime column
        time_log['Datetime'] = time_log['Start Time']
In [6]: \# Find duplicate rows
       pd.value_counts(time_log['Datetime'])
Out[6]: 2019-02-26 13:30:00+00:00
                                     2
        2019-04-27 11:10:00+00:00
        2019-04-26 23:20:00+00:00
        2019-04-27 01:40:00+00:00
        2019-02-01 04:30:00+00:00
        2019-02-05 11:25:00+00:00
                                     2
        2019-03-12 06:00:00+00:00
                                     2
        2019-04-27 04:00:00+00:00
        2019-02-25 12:45:00+00:00
                                     2
        2019-04-15 05:45:00+00:00
                                     2
       2019-02-12 00:00:00+00:00
                                     2
       2019-02-25 11:30:00+00:00
                                     2
       2019-02-25 13:15:00+00:00
       2019-03-15 10:15:00+00:00
        2019-02-25 11:00:00+00:00
        2019-04-26 22:00:00+00:00
        2019-02-25 13:00:00+00:00
        2019-03-12 10:30:00+00:00
        2019-03-01 23:45:00+00:00
        2019-04-03 05:45:00+00:00
                                     1
        2019-03-17 04:30:00+00:00
                                     1
        2019-02-01 16:30:00+00:00
                                     1
        2019-03-28 12:45:00+00:00
                                     1
        2019-02-15 07:55:00+00:00
                                     1
        2019-03-30 23:00:00+00:00
                                     1
        2019-04-24 03:10:00+00:00
                                     1
        2019-02-13 00:50:00+00:00
                                     1
        2019-04-14 03:45:00+00:00
                                     1
        2019-04-19 20:00:00+00:00
                                     1
        2019-02-10 15:30:00+00:00
                                     1
       2019-03-03 09:30:00+00:00
                                    1
        2019-04-29 22:45:00+00:00
                                     1
        2019-03-14 14:20:00+00:00
        2019-02-02 05:30:00+00:00
        2019-02-22 14:10:00+00:00
        2019-02-06 17:00:00+00:00
                                     1
        2019-04-10 00:20:00+00:00
                                     1
        2019-04-02 01:45:00+00:00
                                     1
        2019-04-13 21:15:00+00:00
                                     1
       2019-01-23 11:00:00+00:00
                                     1
        2019-03-14 08:15:00+00:00
```

```
2019-02-14 01:00:00+00:00
        2019-04-14 07:05:00+00:00
                                     1
        2019-02-13 05:30:00+00:00
        2019-03-28 06:15:00+00:00
        2019-02-15 11:15:00+00:00
        2019-03-15 18:30:00+00:00
        2019-04-29 22:25:00+00:00
                                     1
        2019-04-13 23:05:00+00:00
                                     1
        2019-04-15 07:30:00+00:00
                                     1
       2019-03-20 06:00:00+00:00
                                     1
       2019-02-24 10:15:00+00:00
       2019-02-19 12:30:00+00:00
       2019-03-26 23:15:00+00:00
        2019-04-11 05:45:00+00:00
        2019-03-29 05:00:00+00:00
        2019-04-26 07:30:00+00:00
                                     1
        2019-02-09 13:30:00+00:00
                                     1
        2019-03-12 10:15:00+00:00
                                     1
       2019-02-21 22:00:00+00:00
                                     1
       Name: Datetime, Length: 2789, dtype: int64
In [7]: # See which rows are duplicated
       time_log[time_log.duplicated(keep=False)]
Out[7]:
                                       Start Time
                                                   Depth
                                                         Operation Code \
        2727 2019-02-01 2019-02-01 04:30:00+00:00
                                                     0.0
                                                                   14.31
       2726 2019-02-01 2019-02-01 04:30:00+00:00
                                                                   14.31
                                                     0.0
       1943 2019-02-25 2019-02-25 11:30:00+00:00
                                                     0.0
                                                                   14.17
       1942 2019-02-25 2019-02-25 11:30:00+00:00
                                                     0.0
                                                                   14.17
       1941 2019-02-25 2019-02-25 12:45:00+00:00
                                                     0.0
                                                                   14.17
       1940 2019-02-25 2019-02-25 12:45:00+00:00
                                                     0.0
                                                                   14.17
        1939 2019-02-25 2019-02-25 13:00:00+00:00
                                                     0.0
                                                                    6.33
        1938 2019-02-25 2019-02-25 13:00:00+00:00
                                                                    6.33
                                                     0.0
        1937 2019-02-25 2019-02-25 13:15:00+00:00
                                                     0.0
                                                                   14.23
        1936 2019-02-25 2019-02-25 13:15:00+00:00
                                                     0.0
                                                                   14.23
        397 2019-04-15 2019-04-15 05:45:00+00:00
                                                     0.0
                                                                   25.30
       396 2019-04-15 2019-04-15 05:45:00+00:00
                                                     0 0
                                                                   25.30
                         Operation Code Name
                                                              Datetime
       2727
                        HANDLE LANDING JOINT 2019-02-01 04:30:00+00:00
       2726
                        HANDLE LANDING JOINT 2019-02-01 04:30:00+00:00
            RIG DOWN BOP RUNNING EQUIPMENT 2019-02-25 11:30:00+00:00
            RIG DOWN BOP RUNNING EQUIPMENT 2019-02-25 11:30:00+00:00
       1941 RIG DOWN BOP RUNNING EQUIPMENT 2019-02-25 12:45:00+00:00
       1940
             RIG DOWN BOP RUNNING EQUIPMENT 2019-02-25 12:45:00+00:00
                   CHANGE HANDLING EQUIPMENT 2019-02-25 13:00:00+00:00
       1939
```

1

1938

1937

CHANGE HANDLING EQUIPMENT 2019-02-25 13:00:00+00:00

RUN, LP-RISER / DIVERTER 2019-02-25 13:15:00+00:00

```
RUN, LP-RISER / DIVERTER 2019-02-25 13:15:00+00:00
               PREJOBMEETING - BRIEF/DEBRIEF 2019-04-15 05:45:00+00:00
        397
              PREJOBMEETING - BRIEF/DEBRIEF 2019-04-15 05:45:00+00:00
        396
In [8]: # Drop duplicates
       time_log = time_log.drop_duplicates(subset='Datetime',keep='first')
In [9]: # Change datetime from string to DateTime
        time log['Datetime']=pd.to datetime(time log['Datetime'])
        time_log.head(5)
Out[9]:
                                       Start Time Depth Operation Code \
                   Date
        2805 2019-01-20 2019-01-19 23:00:00+00:00
                                                    0.0
                                                                   24.60
        2804 2019-01-20 2019-01-19 23:20:00+00:00
                                                     0.0
                                                                   24.00
        2803 2019-01-20 2019-01-20 08:45:00+00:00
                                                    0.0
                                                                   24.73
        2802 2019-01-20 2019-01-20 11:00:00+00:00
                                                  0.0
                                                                   24.73
        2801 2019-01-20 2019-01-20 17:00:00+00:00 0.0
                                                                   24.20
                    Operation Code Name
                                                         Datetime
             YARDSTAY/MAINTENANCE STOP 2019-01-19 23:00:00+00:00
        2805
       2804
                 IN TRANSIT / SKID RIG 2019-01-19 23:20:00+00:00
                              DP TRIALS 2019-01-20 08:45:00+00:00
        2803
                             DP TRIALS 2019-01-20 11:00:00+00:00
        2802
        2801
                ANCHOR HANDLING ARRIVAL 2019-01-20 17:00:00+00:00
In [13]: # Set Datetime as index column
        OPS = time_log.set_index('Datetime').iloc[:,2:5]
In [14]: # Resample to 1 sec
        OPS_res = OPS.resample('1s').pad()
In [15]: # Dataframe with only "Depth" and "Operation Code"
        df = OPS res.iloc[:,0:2]
In [16]: # Choose time interval for dataframe
        df_new = df.loc['2019-01-25 16:00:00':'2019-04-29 16:00:00']
In []: # Save as CSV file
        df_new.to_csv('drilling_log.csv')
1.0.3 One-hot encoding of operation codes
In [17]: # Dataframe with only operation codes
        log_s = df_new['Operation Code']
In [18]: # Round off operation codes to integer
        log_int = round(log_s)
In [19]: # Create dummy variables (one-hot encoding)
        ops_int = pd.get_dummies(log_int)
```

1936

```
In [21]: # Check which ops codes we have
        ops_int.columns
Out[21]: Float64Index([ 1.0, 2.0, 3.0, 5.0, 6.0, 7.0, 8.0, 11.0, 12.0, 13.0, 14.0,
                      15.0, 19.0, 21.0, 23.0, 24.0, 25.0, 26.0, 27.0, 31.0, 32.0, 34.0,
                      35.0, 38.0, 41.0, 43.0],
                     dtype='float64')
In [22]: # This is the resuling one-hot encoded matrix
        ops_int.head(5)
Out[22]:
                                   1.0 2.0 3.0 5.0 6.0 7.0 8.0 11.0 \
        Datetime
        2019-01-25 16:00:00+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              0
                                                                    0
                                                                          0
                                                                                0
        2019-01-25 16:00:01+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              0
                                                                    0
                                                                          0
                                                                                0
        2019-01-25 16:00:02+00:00
                                                        0
                                      0
                                            0
                                                  0
                                                              0
                                                                    0
                                                                          0
                                                                                0
        2019-01-25 16:00:03+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              0
                                                                    0
                                                                          0
                                                                                0
        2019-01-25 16:00:04+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              0
                                                                                0
                                   12.0 13.0 ... 25.0 26.0 27.0 31.0 32.0 \
        Datetime
                                               . . .
        2019-01-25 16:00:00+00:00
                                      0
                                            0
                                                       0
                                                             0
                                                                   0
                                                                         0
                                                                               0
                                               . . .
        2019-01-25 16:00:01+00:00
                                      0
                                            0 ...
                                                                   0
                                                                               0
                                                       0
                                                             0
                                                                         Ω
        2019-01-25 16:00:02+00:00
                                      0
                                            0 ...
                                                       0
                                                             0
                                                                   0
                                                                         0
                                                                               0
        2019-01-25 16:00:03+00:00
                                      0
                                            0 ...
                                                       0
                                                             0
                                                                   0
                                                                         0
                                                                               0
        2019-01-25 16:00:04+00:00
                                      0
                                            0
                                              . . .
                                                       0
                                                             0
                                                                         0
                                                                               0
                                   34.0 35.0 38.0 41.0 43.0
        Datetime
        2019-01-25 16:00:00+00:00
                                      0
                                            0
                                                  0
                                                              1
        2019-01-25 16:00:01+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              1
        2019-01-25 16:00:02+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              1
        2019-01-25 16:00:03+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              1
        2019-01-25 16:00:04+00:00
                                      0
                                            0
                                                  0
                                                        0
                                                              1
         [5 rows x 26 columns]
In []: # Save as CSV file
```

ops_int.to_csv('drilling_one_hot_encoded.csv')

Fuelcons

June 10, 2019

1 Fuel calculations

1.0.1 Import necessary packages

```
In [1]: # Import packages
                        %matplotlib notebook
                        import pandas as pd
                        import matplotlib.pyplot as plt
                        import numpy as np
                        import datetime as dt
                        from matplotlib import style
                        style.use('ggplot')
                        from pandas import datetime
                        import datareservoirio as drio
                        from pandas.plotting import register_matplotlib_converters
                        register_matplotlib_converters()
                        import seaborn as sns
In [2]: #Define time format
                        def parser(x):
                                    return datetime.strptime(x, '%Y-%m-%d %H:%M:%S.%f')
In [3]: # DataReservoir authenticator
                        auth = drio.Authenticator()
Authentication from previous session still valid.
In [4]: client = drio.Client(auth, cache_opt={'max_size': 128*1024})
1.0.2 Fuel consumption
In [5]: # Define time interval
                        start='2019-01-20 16:00:00'
                        end='2019-05-01 16:00:00'
In [6]: # Load generator power data from DataReservoir
                        incomer\_gen1\_pwr\_raw = client.get('8d799c0e-3c93-4e11-8a5f-268ba991c0b5', start = start) = (1.5cm) + (1.
                        incomer_gen2_pwr_raw = client.get('289f8ab1-6982-47af-803e-2628145ba4ed',start = start
```

```
incomer_gen4_pwr_raw = client.get('607ffd49-916b-4ea9-a971-114e3a25df27',start = start
       incomer_gen5_pwr_raw = client.get('2b186ec6-254a-42cf-be5c-242c2d8c7588',start = start
       incomer_gen6_pwr_raw = client.get('c570b34c-9fb2-4f87-a62d-70dc6d19d0b7',start = start
       incomer_gen7_pwr_raw = client.get('1203cc00-c8b7-496c-b604-8f145f06cef7',start = start
       incomer_gen8_pwr_raw = client.get('04d1a3c6-8bdd-47ff-af4e-ae099173643d',start = start
In [7]: # Resample to 1 s with forward fill
       incomer_gen1_pwr_res = incomer_gen1_pwr_raw.resample('1s').pad()
       incomer_gen2_pwr_res = incomer_gen2_pwr_raw.resample('1s').pad()
       incomer_gen3_pwr_res = incomer_gen3_pwr_raw.resample('1s').pad()
       incomer_gen4_pwr_res = incomer_gen4_pwr_raw.resample('1s').pad()
       incomer_gen5_pwr_res = incomer_gen5_pwr_raw.resample('1s').pad()
       incomer_gen6_pwr_res = incomer_gen6_pwr_raw.resample('1s').pad()
       incomer_gen7_pwr_res = incomer_gen7_pwr_raw.resample('1s').pad()
       incomer_gen8_pwr_res = incomer_gen8_pwr_raw.resample('1s').pad()
In [8]: # Calculate engine load/load%
       load_perc_gen1 = incomer_gen1_pwr_res / (5760*0.96*0.98)
       load_perc_gen2 = incomer_gen2_pwr_res / (5760*0.96*0.98)
       load_perc_gen3 = incomer_gen3_pwr_res / (5760*0.96*0.98)
       load_perc_gen4 = incomer_gen4_pwr_res / (5760*0.96*0.98)
       load_perc_gen5 = incomer_gen5_pwr_res / (5760*0.96*0.98)
       load_perc_gen6 = incomer_gen6_pwr_res / (5760*0.96*0.98)
       load_perc_gen7 = incomer_gen7_pwr_res / (5760*0.96*0.98)
       load_perc_gen8 = incomer_gen8_pwr_res / (5760*0.96*0.98)
In [9]: # Plot load%
       fig=plt.figure(figsize=(10,5))
       ax1=fig.add_subplot(111)
       plt.title('Title', y=1)
       ax1.plot(load_perc_gen1.loc['2019-02-04 16:00:00':'2019-02-04 21:00:00']*100,label='Gen
       ax1.plot(load_perc_gen2.loc['2019-02-04 16:00:00':'2019-02-04 21:00:00']*100,label='Gen
       ax1.plot(load_perc_gen4.loc['2019-02-04 16:00:00':'2019-02-04 21:00:00']*100,label='Gen
       ax1.plot(load_perc_gen5.loc['2019-02-04 16:00:00':'2019-02-04 21:00:00']*100,label='Gen
       ax1.plot(load_perc_gen6.loc['2019-02-04 16:00:00':'2019-02-04 21:00:00']*100,label='Gen
       ax1.plot(load_perc_gen7.loc['2019-02-04 16:00:00':'2019-02-04 21:00:00']*100,label='Gen
       ax1.plot(load_perc_gen8.loc['2019-02-04 16:00:00':'2019-02-04 21:00:00']*100,label='Gen
       ax1.set ylabel('Load%')
       plt.legend(loc='best')
       ax1.set_ylim(-10,75)
       plt.show()
<IPython.core.display.Javascript object>
```

incomer_gen3_pwr_raw = client.get('355f976b-1ed0-4337-956c-fdd51d9b93ab',start = start

```
In [10]: # Calculating from load% to g/kWh
                 {\tt fuel\_cons\_gen1} = (134.22*load\_perc\_gen1*load\_perc\_gen8) - (224.44*load\_perc\_gen1) + 25(14.44*load\_perc\_gen1) + 25(14.44*loa
                 fuel_cons_gen2 = (134.22*load_perc_gen2*load_perc_gen8) - (224.44*load_perc_gen2) + 27
                 fuel_cons_gen3 = (134.22*load_perc_gen3*load_perc_gen8) - (224.44*load_perc_gen3) + 2
                 fuel_cons_gen4 = (134.22*load_perc_gen4*load_perc_gen8) - (224.44*load_perc_gen4) + 2
                 fuel_cons_gen5 = (134.22*load_perc_gen5*load_perc_gen8) - (224.44*load_perc_gen5) + 2
                 fuel_cons_gen6 = (134.22*load_perc_gen6*load_perc_gen8) - (224.44*load_perc_gen6) + 2
                 fuel_cons_gen7 = (134.22*load_perc_gen7*load_perc_gen8) - (224.44*load_perc_gen7) + 2
                 fuel_cons_gen8 = (134.22*load_perc_gen8*load_perc_gen8) - (224.44*load_perc_gen8) + 2
In [11]: # Converting from specific fuel consumption g/kWh to fuel consumption m3/s
                 fuel1 = (fuel_cons_gen1/(845*3600*1000))*5760*load_perc_gen1
                 fuel2 = (fuel_cons_gen2/(845*3600*1000))*5760*load_perc_gen2
                 fuel3 = (fuel cons gen3/(845*3600*1000))*5760*load perc gen3
                 fuel4 = (fuel_cons_gen4/(845*3600*1000))*5760*load_perc_gen4
                 fuel5 = (fuel cons gen5/(845*3600*1000))*5760*load perc gen5
                 fuel6 = (fuel_cons_gen6/(845*3600*1000))*5760*load_perc_gen6
                 fuel7 = (fuel_cons_gen7/(845*3600*1000))*5760*load_perc_gen7
                 fuel8 = (fuel_cons_gen8/(845*3600*1000))*5760*load_perc_gen8
In [12]: # Dataframe with fuel consumption m3/s
                 m3s = pd.DataFrame({'m3/s gen1': fuel1, 'm3/s gen2': fuel2, 'm3/s gen3': fuel3, 'm3/s
In [13]: # Fill missing values with forward fill and backfill
                 filled_fuel = m3s.ffill().bfill()
In [14]: # Add fuel consumption from all diesel engines
                 filled fuel['Total m3/s']=filled fuel.sum(axis=1)
In [15]: # Series with fuel consumption m3/s
                 total_fuel_sec = filled_fuel['Total m3/s']
In [19]: # Series with fuel consumption m3/h
                 fuel_m3_hour = total_fuel_sec * 60 * 60
In [20]: # Sum up fuel consumption per day (m3/day)
                 total_fuel_day = total_fuel_sec.resample('1D').sum()
                 total_fuel_day.head(5)
Out[20]: 2019-01-23 00:00:00+00:00
                                                                          26.308882
                 2019-01-24 00:00:00+00:00
                                                                          26.288279
                 2019-01-25 00:00:00+00:00
                                                                          36.405416
                 2019-01-26 00:00:00+00:00
                                                                          29.843364
                 2019-01-27 00:00:00+00:00
                                                                          26.497666
                 Freq: D, Name: Total m3/s, dtype: float64
```

```
plt.figure(figsize=(20,5))
         plt.plot(total_fuel_day)
        plt.title('Fuel cons m3/day')
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
Out[24]: Text(0.5, 1.0, 'Fuel cons m3/day')
In [25]: # Sum up fuel consumption per hour
         total_fuel_hour = total_fuel_sec.resample('1H').sum()
In [26]: # Plot fuel consumption m3/hour
         fig=plt.figure(figsize=(10,3))
         total_fuel_hour.plot.line(style='-',label='x')
        plt.savefig('lineplot.png')
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
C:\Users\243512\AppData\Local\Continuum\anaconda3\lib\site-packages\pandas\core\arrays\datetime
  "will drop timezone information.", UserWarning)
In [27]: # Plot fuel consumption m3/h
        fig=plt.figure(figsize=(10,5))
         ax1=fig.add_subplot(111)
        p = '2019-04-15 15:16:30'
         q = '2019-04-15 15:20:30'
         ax1.plot(fuel_m3_hour.loc[p:q],label='Fuel consumption',lw=1,c='teal')
         ax1.set_ylabel('m3/h')
         plt.legend(loc='best')
         ax1.set_ylim(0.85,1.5)
         plt.show()
         #plt.savefig('FU-case1.png')
         #plt.savefig('FU-case2.png')
```

In [24]: # Plot fuel consumption m3/day

```
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
In [28]: # Plot engine load
         fig=plt.figure(figsize=(10,5))
         ax1=fig.add_subplot(111)
         p = '2019-04-15 15:16:30'
         q = '2019-04-15 15:20:30'
         ax1.plot(load_perc_gen1.loc[p:q]*100,label='DG1',lw=1)
         ax1.plot(load perc gen2.loc[p:q]*100,label='DG2',lw=1)
         #ax1.plot(load_perc_gen3.loc[p:q]*100,label='DG3',lw=1)
         #ax1.plot(load_perc_gen4.loc[p:q]*100,label='DG4',lw=1)
         \#ax1.plot(load\_perc\_gen5.loc[p:q]*100,label='DG5',lw=1)
         ax1.plot(load_perc_gen6.loc[p:q]*100,label='DG6',lw=1)
         \#ax1.plot(load\_perc\_gen7.loc[p:q]*100,label='DG7',lw=1)
         #ax1.plot(load_perc_gen8.loc[p:q]*100,label='DG8',lw=1)
         ax1.set_ylabel('Load%')
         plt.legend(loc='best')
         ax1.set_ylim(-10,80)
         plt.show()
         #plt.savefig('LP-case1.png')
         #plt.savefig('LP-case2.png')
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
1.0.3 Add data from daily drilling log
In [30]: # Load drilling log data and extract input feature "depth"
         time_log = pd.read_csv('drilling_log.csv', index_col='Datetime', parse_dates = True)
         depth = time_log['Depth']
1.0.4 Add weather data etc.
In [31]: # Load weather and gps data from DataReservoir
         latitude_raw = client.get('7427ec78-8313-46fa-b9b9-67eae32f300a',start = start, end =
         longitude_raw = client.get('21b982f4-262b-4624-b639-0bbb072d9e84',start = start, end =
```

```
current_direction_raw = client.get('52b55145-455a-4c49-b1dc-9e6342ce7c77',start = star
        current speed raw = client.get('c9fe90f6-40df-4f6c-b367-331d3d3b410e',start = start, &
        draught_raw = client.get('8c655cb2-5909-4519-979b-912f0c1ca6ca', start = start, end = (
        wind_direction_raw = client.get('e7661b3c-1c20-46fc-9c9a-a34bbc0f4b68',start = start,
        wind_speed_raw = client.get('877e8bcd-bef0-4917-9f05-5874c17f8341',start = start, end
In [33]: # Resample to 1 sec and forward fill
        latitude_res = latitude_raw.resample('1s').pad()
        longitude_res = longitude_raw.resample('1s').pad()
        current_direction_res = current_direction_raw.resample('1s').pad()
        current_speed_res = current_speed_raw.resample('1s').pad()
        draught res = draught raw.resample('1s').pad()
        wind_direction_res = wind_direction_raw.resample('1s').pad()
        wind_speed_res = wind_speed_raw.resample('1s').pad()
In [34]: # Make dataframe
        df = pd.DataFrame({'Fuel_consumption': fuel_m3_hour, 'Depth in well': depth, 'Latitude')
In [35]: # Fill missing data with front fill and backfill
        df_filled= df.ffill().bfill()
In [36]: # Add input features "Day of year" and "Hour of Day"
        df filled['Day'] = df filled.index.dayofyear
        df_filled['Hour'] = df_filled.index.hour
In [37]: # Reset index
        new_df = df_filled.reset_index()
        new df.head(10)
Out [37]:
                             index Fuel_consumption Depth in well Latitude \
        0 2019-01-23 00:00:06+00:00 1.027309 0.0 1.065338
        1 2019-01-23 00:00:07+00:00
                                          1.027309
                                                             0.0 1.065338
        2 2019-01-23 00:00:08+00:00
                                          1.028482
                                                            0.0 1.065338
        3 2019-01-23 00:00:09+00:00
                                          1.032443
                                                             0.0 1.065338
        4 2019-01-23 00:00:10+00:00
                                          1.032377
                                                             0.0 1.065338
        5 2019-01-23 00:00:11+00:00
                                                             0.0 1.065338
                                          1.029214
        6 2019-01-23 00:00:12+00:00
                                          1.030181
                                                             0.0 1.065338
        7 2019-01-23 00:00:13+00:00
                                          1.023198
                                                              0.0 1.065338
                                          1.022963
                                                              0.0 1.065338
        8 2019-01-23 00:00:14+00:00
                                                              0.0 1.065338
        9 2019-01-23 00:00:15+00:00
                                          1.028101
           Longitude Current direction Current speed Draught Wind direction \
        0 0.062364
                             0.648136
                                        0.546649 24.826622
                                                                     -0.319278
           0.062364
                             0.648136
                                            0.546649 24.826622
                                                                     -0.319278
        2 0.062364
                             0.634876
                                           0.530271 24.826885
                                                                     -0.329021
                                                                     -0.328347
        3 0.062364
                             0.618660
                                           0.511536 24.827158
        4 0.062364
                             0.601338
                                          0.493684 24.827436
                                                                    -0.332697
                                          0.479889 24.827719
        5 0.062364
                             0.584708
                                                                     -0.333125
        6 0.062364
                             0.571979
                                           0.472463 24.828000
                                                                     -0.331139
```

```
8
            0.062364
                               0.573889
                                              0.479487 24.828543
                                                                        -0.331332
            0.062364
                                                                        -0.329606
                               0.591850
                                              0.492420 24.828798
           Wind speed
                       Day Hour
            18.522430
        0
                        23
                               0
            18.522430
        1
                        23
                               0
            18.431189
        2
                        23
                               0
        3
            18.374803
                        23
                               0
            18.339280
        4
                        23
                               0
        5
            18.306420
                        23
                               0
        6
            18.287144
                        23
                               0
        7
            18.291555
                        23
                               0
        8
            18.301160
                        23
            18.321085
In [38]: # Rename index column
        new_df.rename(columns={"index": "Datetime"}, inplace=True)
        new df.head(5)
Out[38]:
                           Datetime Fuel_consumption Depth in well Latitude \
        0 2019-01-23 00:00:06+00:00
                                            1.027309
                                                                 0.0 1.065338
        1 2019-01-23 00:00:07+00:00
                                            1.027309
                                                                 0.0 1.065338
        2 2019-01-23 00:00:08+00:00
                                            1.028482
                                                                 0.0 1.065338
        3 2019-01-23 00:00:09+00:00
                                            1.032443
                                                                 0.0 1.065338
        4 2019-01-23 00:00:10+00:00
                                             1.032377
                                                                 0.0 1.065338
                                                          Draught Wind direction \
           Longitude Current direction Current speed
        0
           0.062364
                               0.648136
                                              0.546649 24.826622
                                                                        -0.319278
            0.062364
        1
                               0.648136
                                              0.546649 24.826622
                                                                        -0.319278
        2
            0.062364
                               0.634876
                                              0.530271
                                                        24.826885
                                                                        -0.329021
        3
            0.062364
                               0.618660
                                              0.511536
                                                        24.827158
                                                                        -0.328347
            0.062364
                               0.601338
                                              0.493684 24.827436
                                                                        -0.332697
           Wind speed Day Hour
        0
            18.522430
                        23
                               0
            18.522430
                        23
                               0
        1
        2
            18.431189
                        23
                               0
        3
            18.374803
                        23
                               0
        4
            18.339280
                        23
In [ ]: # Save dataframe as CSV file
       new_df.to_csv('fuelcons_multivariate_input.csv')
```

0.567361

0.472444 24.828276

-0.330582

7

0.062364

MLP regressor

June 10, 2019

1 MLP Regressor and correlation plots

1.0.1 Import necessary packages

1.0.2 Import cleaned data

```
In [3]: # Load fuel consumption and weather data
       df_m = pd.read_csv('fuelcons_multivariate_input.csv', index_col = 'Datetime', usecols=
       df_1 = df_m.loc['2019-01-25 16:00:00+00:00':'2019-04-25 16:00:00+00:00']
       df 1.head(5)
Out[3]:
                                 Fuel_consumption Depth in well Latitude \
       Datetime
                                        1.807751
                                                            0.0 1.065337
       2019-01-25 16:00:00+00:00
       2019-01-25 16:00:01+00:00
                                                            0.0 1.065337
                                       1.789441
       2019-01-25 16:00:02+00:00
                                       1.752199
                                                            0.0 1.065337
       2019-01-25 16:00:03+00:00
                                       1.732183
                                                            0.0 1.065337
       2019-01-25 16:00:04+00:00
                                        1.636249
                                                            0.0 1.065337
                                 Longitude Current direction Current speed \
       Datetime
       2019-01-25 16:00:00+00:00
                                 0.062365
                                                    0.009081
                                                                   0.565714
       2019-01-25 16:00:01+00:00
                                  0.062365
                                                    0.011541
                                                                   0.565834
```

```
2019-01-25 16:00:02+00:00
                                                       0.016058
                                                                       0.567418
                                    0.062365
        2019-01-25 16:00:03+00:00
                                    0.062365
                                                       0.020473
                                                                      0.570278
        2019-01-25 16:00:04+00:00
                                    0.062365
                                                       0.022767
                                                                      0.573709
                                     Draught Wind direction Wind speed Day Hour
       Datetime
        2019-01-25 16:00:00+00:00 25.041110
                                                   -0.398286
                                                               16.677326
                                                                            25
                                                                                  16
        2019-01-25 16:00:01+00:00
                                   25.041430
                                                   -0.396239
                                                               16.767210
                                                                            25
                                                                                  16
        2019-01-25 16:00:02+00:00 25.041761
                                                   -0.392005
                                                               16.899961
                                                                            25
                                                                                  16
                                                               17.016794
        2019-01-25 16:00:03+00:00 25.042097
                                                   -0.391867
                                                                            25
                                                                                  16
        2019-01-25 16:00:04+00:00 25.042427
                                                   -0.390627
                                                                           25
                                                               17.102295
                                                                                  16
In [5]: # Load operational codes (one hot encoded)
       ops = pd.read_csv('drilling_one_hot_encoded.csv', index_col = 'Datetime',parse_dates=T1
        df_2 = ops.loc['2019-01-25 16:00:00+00:00':'2019-04-25 16:00:00+00:00']
       df_2.head(5)
Out[5]:
                                   1.0 2.0 3.0 5.0 6.0 7.0 8.0 11.0 12.0 \
       Datetime
        2019-01-25 16:00:00+00:00
                                     0
                                          0
                                               0
                                                    0
                                                         0
                                                              0
                                                                   0
                                                                          0
                                                                                0
        2019-01-25 16:00:01+00:00
                                     0
                                          0
                                               0
                                                              0
                                                                   0
                                                                          0
                                                                                0
        2019-01-25 16:00:02+00:00
                                     0
                                          0
                                                              0
                                                                   0
                                                                                0
       2019-01-25 16:00:03+00:00
                                     0
                                          0
                                             0
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                                                              0
                                                                   0
                                                                                0
        2019-01-25 16:00:04+00:00
                                     0
                                          0
                                             0
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                                                              0
                                                                                0
                                   13.0 ...
                                              25.0 26.0 27.0 31.0 32.0
       Datetime
        2019-01-25 16:00:00+00:00
                                      Ω
                                                                   0
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                                         . . .
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                                                       0
                                                             0
                                                                          0
        2019-01-25 16:00:01+00:00
                                                       0
                                                                                0
                                      0
                                         . . .
                                                 0
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                                                                   0
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        2019-01-25 16:00:02+00:00
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                                         . . .
        2019-01-25 16:00:03+00:00
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                                         . . .
        2019-01-25 16:00:04+00:00
                                      0
                                                 0
                                                       0
                                                             0
                                                                   0
                                                                          0
                                                                                0
                                   35.0 38.0 41.0 43.0
       Datetime
        2019-01-25 16:00:00+00:00
                                      0
                                            0
                                                  0
                                                        1
        2019-01-25 16:00:01+00:00
                                      0
                                            0
                                                  0
                                                        1
        2019-01-25 16:00:02+00:00
                                      0
                                            Λ
                                                  Λ
                                                        1
        2019-01-25 16:00:03+00:00
                                      0
                                            0
                                                  0
                                                        1
        2019-01-25 16:00:04+00:00
                                      0
                                            0
                                                  0
                                                        1
        [5 rows x 26 columns]
In [6]: # Add the two dataframes together
        df_col = pd.concat([df_1,df_2], axis=1)
In [7]: # Convert to UNIX time
       df = df_col.reset_index()
```

```
df['Datetime'] = pd.DatetimeIndex(df['Datetime']).astype(np.int64) // 1000000000
       df.head(5)
Out[7]:
            Datetime Fuel_consumption Depth in well Latitude Longitude \
       0 1548432000
                              1.807751
                                                  0.0 1.065337
                                                                  0.062365
         1548432001
                              1.789441
                                                  0.0 1.065337
                                                                  0.062365
       1
          1548432002
                              1.752199
                                                  0.0 1.065337
                                                                  0.062365
       3
          1548432003
                              1.732183
                                                  0.0 1.065337
                                                                  0.062365
          1548432004
                              1.636249
                                                  0.0 1.065337
                                                                  0.062365
           Current direction Current speed
                                              Draught
                                                       Wind direction
                                                                      Wind speed \
       0
                   0.009081
                                  0.565714 25.041110
                                                            -0.398286
                                                                        16.677326
       1
                   0.011541
                                  0.565834 25.041430
                                                            -0.396239
                                                                        16.767210
       2
                   0.016058
                                  0.567418 25.041761
                                                            -0.392005
                                                                        16.899961
                                  0.570278 25.042097
                                                                        17.016794
       3
                   0.020473
                                                            -0.391867
       4
                   0.022767
                                  0.573709 25.042427
                                                            -0.390627
                                                                        17,102295
               25.0
                     26.0 27.0
                                 31.0
                                       32.0
                                             34.0
                                                   35.0
                                                         38.0
                                                               41.0 43.0
                              0
                                    0
                                          0
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          . . .
                        0
                                                      0
       1
                  0
                        0
                              0
                                    0
                                          0
                                                      0
                                                                        1
          . . .
       2
          . . .
                  0
                        0
                              0
                                    0
                                          0
                                                0
                                                      0
                                                            0
                                                                  0
                                                                        1
       3
                              0
          . . .
                  0
                        0
                                    0
                                          0
                                                0
                                                      0
                                                            0
                                                                  0
                                                                        1
       4
                        0
                              0
                                          0
                                                0
                                                      0
                                                                  0
                                                                        1
          . . .
                  0
                                    0
       [5 rows x 38 columns]
In [8]: # Description of all features
       df.describe().transpose()
Out[8]:
                              count
                                                            std
                                                                          min \
                                             mean
       Datetime
                          7776001.0 1.552320e+09 2.244738e+06 1.548432e+09
       Fuel_consumption
                          7776001.0 1.115234e+00 2.637618e-01 5.159828e-01
       Depth in well
                          7776001.0 6.951707e+02 1.068558e+03
                                                                 0.000000e+00
       Latitude
                          7776001.0 1.065330e+00 1.919788e-06 1.065322e+00
       Longitude
                          7776001.0 6.237767e-02 4.691119e-06 6.235286e-02
       Current direction
                          7776001.0 7.372725e-01
                                                   1.473847e+00 -3.141592e+00
                          7776001.0 6.755604e-01
                                                   1.936276e-01 1.266806e-02
       Current speed
       Draught
                          7776001.0 2.490957e+01 3.937708e-01 2.091119e+01
       Wind direction
                          7776001.0 -2.096475e-01 1.593127e+00 -3.141592e+00
                          7776001.0 9.188779e+00 4.950325e+00 3.136683e-03
       Wind speed
                          7776001.0 7.016667e+01 2.598344e+01
                                                                 2.500000e+01
       Day
       Hour
                          7776001.0 1.150000e+01 6.922187e+00
                                                                 0.000000e+00
       1.0
                          7776001.0 3.742283e-03 6.105964e-02
                                                                 0.000000e+00
       2.0
                          7776001.0 6.863425e-02 2.528312e-01 0.000000e+00
       3.0
                          7776001.0 9.259258e-04 3.041494e-02
                                                                 0.000000e+00
       5.0
                          7776001.0 5.124228e-02 2.204915e-01 0.000000e+00
       6.0
                          7776001.0 2.303935e-01 4.210847e-01 0.000000e+00
                          7776001.0 8.738438e-02 2.823975e-01 0.000000e+00
       7.0
```

```
11.0
                  7776001.0
                             9.386573e-02
                                          2.916418e-01
                                                        0.000000e+00
12.0
                  7776001.0
                             5.635802e-02
                                           2.306118e-01
                                                        0.000000e+00
13.0
                  7776001.0
                             3.641975e-02
                                           1.873322e-01
                                                        0.000000e+00
14.0
                  7776001.0
                             5.995370e-02
                                           2.374010e-01
                                                        0.000000e+00
15.0
                  7776001.0 1.898148e-02
                                           1.364595e-01
                                                        0.000000e+00
19.0
                  7776001.0 1.983024e-02 1.394167e-01
                                                        0.000000e+00
21.0
                  7776001.0
                             2.700617e-04
                                          1.643134e-02
                                                        0.000000e+00
23.0
                  7776001.0 1.226852e-02 1.100818e-01
                                                        0.000000e+00
24.0
                  7776001.0 7.175925e-03 8.440635e-02
                                                        0.000000e+00
25.0
                  7776001.0 4.233024e-02 2.013415e-01 0.000000e+00
26.0
                  7776001.0 3.009259e-03 5.477411e-02
                                                        0.000000e+00
27.0
                  7776001.0 5.787036e-04 2.404930e-02 0.000000e+00
31.0
                  7776001.0 6.496913e-02 2.464714e-01
                                                        0.000000e+00
32.0
                  7776001.0 6.172839e-04 2.483753e-02
                                                        0.000000e+00
34.0
                  7776001.0
                             2.314815e-04 1.521275e-02
                                                        0.000000e+00
35.0
                  7776001.0 8.641974e-03 9.255966e-02
                                                        0.000000e+00
38 0
                  7776001.0 1.651234e-02 1.274350e-01
                                                        0 000000e+00
41.0
                  7776001.0 1.643518e-02 1.271419e-01
                                                        0.000000e+00
                  7776001.0 9.645060e-02 2.952082e-01
43.0
                                                        0.000000e+00
                           25%
                                         50%
                                                       75%
                                                                    max
Datetime
                  1.550376e+09
                                1.552320e+09
                                             1.554264e+09
                                                            1.556208e+09
Fuel consumption
                  9.696400e-01
                                1.004411e+00
                                              1.143648e+00
                                                            4.401226e+00
Depth in well
                  0.000000e+00
                                3.510000e+02
                                              9.210000e+02
                                                            9.999000e+03
Latitude
                  1.065329e+00
                                1.065330e+00
                                             1.065330e+00
                                                            1.065338e+00
Longitude
                  6.237726e-02 6.237835e-02
                                             6.237876e-02
                                                           6.239804e-02
Current direction 5.012040e-01 1.010098e+00 1.495219e+00 3.141592e+00
                  5.551385e-01 6.794196e-01 8.066642e-01 1.517747e+00
Current speed
Draught
                  2.494172e+01 2.497944e+01 2.500768e+01 2.566121e+01
Wind direction
                 -1.101734e+00 -1.407744e-01 6.977107e-01 3.141592e+00
Wind speed
                  5.378816e+00 8.806188e+00 1.268733e+01 3.010146e+01
Day
                  4.800000e+01 7.000000e+01 9.300000e+01 1.150000e+02
Hour
                  6.000000e+00 1.200000e+01 1.700000e+01 2.300000e+01
1.0
                  0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
2.0
                  0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
3.0
                  0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
                  0.000000e+00
5.0
                                0.000000e+00 0.000000e+00 1.000000e+00
6.0
                  0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
7.0
                  0.000000e+00
                                0.000000e+00
                                             0.000000e+00
                                                           1.000000e+00
8.0
                  0.000000e+00
                                0.000000e+00
                                             0.000000e+00
                                                           1.000000e+00
11.0
                  0.000000e+00
                                0.000000e+00
                                              0.000000e+00
                                                            1.000000e+00
12.0
                  0.000000e+00
                                0.000000e+00
                                              0.000000e+00
                                                            1.000000e+00
13.0
                  0.000000e+00
                                0.000000e+00
                                              0.000000e+00
                                                           1.000000e+00
14.0
                  0.000000e+00
                                0.000000e+00
                                              0.000000e+00
                                                           1.000000e+00
15.0
                  0.000000e+00
                                0.000000e+00
                                             0.000000e+00 1.000000e+00
19.0
                  0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
                  0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
21.0
```

7776001.0 2.777777e-03 5.263138e-02 0.000000e+00

8.0

```
23.0
                  0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
24.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
25.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
26.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
27.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
31.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
32.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
34.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
35.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
38.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
41.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
43.0
                 0.000000e+00 0.000000e+00 0.000000e+00 1.000000e+00
```

1.0.3 Correlation plots

```
In [9]: # Make correlation matrix with default Pearson correlations
        corr_matrix = df.corr()
In [10]: # Visualize correlation matrix
         corr_matrix.style.background_gradient(cmap='coolwarm')
Out[10]: <pandas.io.formats.style.Styler at 0x18e2bc807b8>
In [11]: # Sorted list of absoulte correlations with regards to fuel consumption
         abs_corr = np.abs(corr_matrix.Fuel_consumption)
         abs_corr_df= pd.DataFrame(abs_corr)
         abs_corr_df.sort_values(["Fuel_consumption"], ascending = False, inplace = True)
         abs_corr_df
Out[11]:
                            Fuel_consumption
                                    1.000000
         Fuel_consumption
         2.0
                                    0.365264
         Wind speed
                                    0.339310
         Current speed
                                    0.212641
         23.0
                                    0.203590
         Depth in well
                                    0.158404
         Draught
                                    0.146840
         Day
                                    0.145651
         Datetime
                                    0.145293
         11.0
                                    0.128498
         6.0
                                    0.098279
         7.0
                                    0.075374
         14.0
                                    0.069457
         Current direction
                                    0.067554
         41.0
                                    0.065259
         5.0
                                    0.061500
         24.0
                                    0.059048
         25.0
                                    0.055078
                                    0.053505
         31.0
```

```
3.0
                                    0.034471
         Hour
                                    0.033431
         35.0
                                    0.032734
         13.0
                                    0.032709
         26.0
                                    0.026516
         15.0
                                    0.025940
         43.0
                                    0.025675
         21.0
                                    0.024502
                                    0.021967
        Longitude
        38.0
                                    0.019811
        1.0
                                    0.016067
        Latitude
                                    0.015693
        32.0
                                    0.014073
         8.0
                                    0.013893
         Wind direction
                                    0.013844
         27.0
                                    0.013524
         12.0
                                    0.009885
         34.0
                                    0.006467
In [13]: # Define list of all features for the ML model
         all_features = list(abs_corr_df.index[1:])
1.0.4 Preprocessing
In [14]: # Import necessary packages
         from sklearn.preprocessing import StandardScaler
         from sklearn import metrics
         from sklearn.model_selection import train_test_split
         from sklearn.neural_network import MLPRegressor
In [15]: # Creating series of target variable and input features (y:target variable, X: input
        y = df['Fuel consumption'].values
        X = df[all_features].values
         # Splitting the data into training and test set (test set is 20%)
         X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.20, random_state
In [16]: scaler = StandardScaler()
         scaler.fit(X_train)
         X_train = scaler.transform(X_train)
         X_test = scaler.transform(X_test)
1.0.5 MLP regressor with SGD solver
In [17]: # Building the ML model
         ml_model_sgd = MLPRegressor(random_state=0, max_iter=40, hidden_layer_sizes=(38,38,38)
In [18]: # Fitting the model with training data
         trained_model_sgd = ml_model_sgd.fit(X_train, y_train)
```

0.040331

19.0

```
Iteration 1, loss = 0.01461873
Iteration 2, loss = 0.00934317
Iteration 3, loss = 0.00805522
Iteration 4, loss = 0.00735338
Iteration 5, loss = 0.00690187
Iteration 6, loss = 0.00658547
Iteration 7, loss = 0.00633801
Iteration 8, loss = 0.00614161
Iteration 9, loss = 0.00596468
Iteration 10, loss = 0.00580324
Iteration 11, loss = 0.00566519
Iteration 12, loss = 0.00554885
Iteration 13, loss = 0.00544435
Iteration 14, loss = 0.00534747
Iteration 15, loss = 0.00525742
Iteration 16, loss = 0.00517738
Iteration 17, loss = 0.00510443
Iteration 18, loss = 0.00503578
Iteration 19, loss = 0.00497408
Iteration 20, loss = 0.00491762
Iteration 21, loss = 0.00486238
Iteration 22, loss = 0.00481067
Iteration 23, loss = 0.00476272
Iteration 24, loss = 0.00471828
Training loss did not improve more than tol=0.000100 for 10 consecutive epochs. Setting learning
Iteration 25, loss = 0.00466795
Iteration 26, loss = 0.00465899
Iteration 27, loss = 0.00465073
Iteration 28, loss = 0.00464246
Iteration 29, loss = 0.00463448
Iteration 30, loss = 0.00462635
Iteration 31, loss = 0.00461852
Iteration 32, loss = 0.00461094
Iteration 33, loss = 0.00460335
Iteration 34, loss = 0.00459583
Iteration 35, loss = 0.00458876
Training loss did not improve more than tol=0.000100 for 10 consecutive epochs. Setting learning
Iteration 36, loss = 0.00457933
Iteration 37, loss = 0.00457769
Iteration 38, loss = 0.00457636
Iteration 39, loss = 0.00457489
Iteration 40, loss = 0.00457347
```

In [21]: #Predicting the test data using the trained model

% self.max_iter, ConvergenceWarning)

 ${\tt C:\Users\243512\AppData\Local\Continuum\anaconda3\lib\site-packages\sklearn\neural_network\mulimed and the continuum\anaconda3\lib\site-packages\sklearn\neural_network\mulimed and the continuum\anaconda3\lib\sklearn\neural_network\mulimed and the continuum\anaconda3\lib\sklearn\neural\neura$

```
predictions_sgd = trained_model_sgd.predict(X_test)
         # Printing MAE, MSE and RMSE
         print('Mean Absolute Error:', metrics.mean_absolute_error(y_test, predictions_sgd))
         print('Mean Square Error:', metrics.mean_squared_error(y_test, predictions_sgd))
         print('Root Mean Square Error:', np.sqrt(metrics.mean_squared_error(y_test, prediction
Mean Absolute Error: 0.057823752511413876
Mean Square Error: 0.009089942226348171
Root Mean Square Error: 0.09534118850920714
1.0.6 MLP regressor with Adam solver
In [22]: # Building the ML model
         ml_model_ada = MLPRegressor(random_state=0, max_iter=40, hidden_layer_sizes=(38,38,38)
In [23]: # Fitting the model with training data
         trained_model_ada = ml_model_ada.fit(X_train, y_train)
Iteration 1, loss = 0.00675147
Iteration 2, loss = 0.00417168
Iteration 3, loss = 0.00384339
Iteration 4, loss = 0.00367566
Iteration 5, loss = 0.00356651
Iteration 6, loss = 0.00348342
Iteration 7, loss = 0.00342432
Iteration 8, loss = 0.00338781
Iteration 9, loss = 0.00335227
Iteration 10, loss = 0.00332256
Iteration 11, loss = 0.00329866
Iteration 12, loss = 0.00328407
Iteration 13, loss = 0.00327366
Iteration 14, loss = 0.00325659
Iteration 15, loss = 0.00324721
Iteration 16, loss = 0.00323755
Training loss did not improve more than tol=0.000100 for 10 consecutive epochs. Stopping.
In [25]: #Predicting the test data using the trained model
         predictions_ada = trained_model_ada.predict(X_test)
         print('Mean Absolute Error:', metrics.mean_absolute_error(y_test, predictions_ada))
         print('Mean Square Error:', metrics.mean_squared_error(y_test, predictions_ada))
         print('Root Mean Square Error:', np.sqrt(metrics.mean_squared_error(y_test, prediction
Mean Absolute Error: 0.04641723209014779
Mean Square Error: 0.005927502138123705
Root Mean Square Error: 0.07699027300980107
```

1.0.7 Test set and training set accuracy for different learning rates

```
In [26]: # Checking different learning rates
        ml_model_ada0 = MLPRegressor(random_state=0, max_iter=40, hidden_layer_sizes=(38,38,38
        ml model ada1 = MLPRegressor(random state=0, max iter=40, hidden layer sizes=(38,38,38
        ml_model_ada2 = MLPRegressor(random_state=0, max_iter=40, hidden_layer_sizes=(38,38,38
        ml_model_ada3 = MLPRegressor(random_state=0, max_iter=40, hidden_layer_sizes=(38,38,38)
In [27]: # Fitting with training data
        ml_model_ada0.fit(X_train, y_train)
        ml_model_ada1.fit(X_train, y_train)
        ml_model_ada2.fit(X_train, y_train)
        ml_model_ada3.fit(X_train, y_train)
Out[27]: MLPRegressor(activation='relu', alpha=0.0001, batch_size='auto', beta_1=0.9,
                beta_2=0.999, early_stopping=False, epsilon=1e-08,
               hidden_layer_sizes=(38, 38, 38), learning_rate='constant',
                learning_rate_init=1e-05, max_iter=40, momentum=0.9,
                n_iter_no_change=10, nesterovs_momentum=True, power_t=0.5,
                random_state=0, shuffle=True, solver='adam', tol=0.0001,
                validation_fraction=0.1, verbose=False, warm_start=False)
In [28]: # Set up empty lists
        training_accuracy0 = []
        test accuracy0 = []
        training_accuracy1 = []
        test_accuracy1 = []
        training_accuracy2 = []
        test_accuracy2 = []
        training accuracy3 = []
        test accuracy3 = []
In [33]: # Fill empty lists with R2 score
        training_accuracy0.append(ml_model_ada0.score(X_train,y_train))
        test_accuracy0.append(ml_model_ada0.score(X_test,y_test))
        training_accuracy1.append(ml_model_ada1.score(X_train,y_train))
        test_accuracy1.append(ml_model_ada1.score(X_test,y_test))
        training_accuracy2.append(ml_model_ada2.score(X_train,y_train))
        test_accuracy2.append(ml_model_ada2.score(X_test,y_test))
        training_accuracy3.append(ml_model_ada3.score(X_train,y_train))
        test_accuracy3.append(ml_model_ada3.score(X_test,y_test))
In [34]: # R2 score for training and test set, learning rate = 0.01
        print(training_accuracy0)
        print(test_accuracy0)
```

```
[0.8942763925447031]
[0.8941004656407224]
In [35]: # R2 score for training and test set, learning rate = 0.001
         print(training_accuracy1)
         print(test_accuracy1)
[0.9152322238797699, 0.9152322238797699]
[0.9149412411754964, 0.9149412411754964]
In [36]: # R2 score for training and test set, learning rate = 0.0001
         print(training_accuracy2)
         print(test_accuracy2)
[0.8954236587437729, 0.8954236587437729]
[0.895389741492984, 0.895389741492984]
In [37]: # R2 score for training and test set, learning rate = 0.00001
         print(training_accuracy3)
        print(test_accuracy3)
[0.8571607409345383, 0.8571607409345383]
[0.8573300330934351, 0.8573300330934351]
1.0.8 Performance evaluation
In [38]: # Making a function for the x = y perfect relationship
         x_{line}=[0.7, 4]
        y_line=[0.7,4]
In [41]: # Scatter plot of real vs predicted values, and dotted line for linear relationship
        plt.figure(figsize=(6,6))
        plt.scatter(y_test,predictions_ada,marker='o',s=1)
        plt.xlabel('Real fuel consumption values')
        plt.ylabel('Predicted fuel consumption values')
        plt.plot(x_line,y_line,'--',color='black')
        plt.title(' ')
         plt.savefig('predreal.png')
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
```

```
1.0.9 Comparing actual vs. predicted consumption
```

```
In [42]: # Creating a dataframe with two columns(real consumption, predicted consumption)
        dataframe= pd.DataFrame([y_test, predictions_ada]).T
        dataframe.columns=['realConsumption', 'predictedConsumption']
        dataframe.head(5)
Out[42]:
           realConsumption predictedConsumption
        Ω
                  1.170577
                                       1.189542
        1
                  1.010247
                                       0.928975
                                       0.983982
        2
                  1.026299
        3
                  0.948860
                                        0.974437
        4
                  0.988064
                                        0.993091
In [43]: # Residual error is the difference between real and predicted consumption
        Residual_Errors = dataframe.realConsumption - dataframe.predictedConsumption
In [44]: Residual_Errors.describe()
Out[44]: count
                1.555201e+06
        mean
                -5.335377e-03
        std
                 7.680521e-02
        min
                -1.050939e+00
                -3.503352e-02
        25%
        50%
                -8.241588e-03
        75%
                 1.970077e-02
                 2.009050e+00
        max
        dtype: float64
In [45]: plt.figure(figsize=(6,6))
        Residual_Errors.plot(kind='kde')
        plt.savefig('density.png')
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
1.0.10 Testing the model on data outside the training set
In [46]: # Load data and combine in a new dataframe
        df_testing1 = df_m.loc['2019-04-25 16:00:00+00:00':'2019-04-28 14:00:00+00:00']
        df_testing2 = ops.loc['2019-04-25 16:00:00+00:00':'2019-04-28 14:00:00+00:00']
        df_col_testing = pd.concat([df_testing1,df_testing2], axis=1)
In [47]: # Set index
        df_col_testing.index = pd.to_datetime(df_col_testing.index)
In [48]: # Resample to one hour
        df_testing_hour = df_col_testing.resample('1H').pad()
```

```
In [49]: # Convert to UNIX time
        df_testing_hour = df_testing_hour.reset_index()
        df_testing_hour['Datetime'] = pd.DatetimeIndex(df_testing_hour['Datetime']).astype(np
In [50]: # Make dataframe for input features and target variable
        y_testing = df_testing_hour['Fuel_consumption'].values
        X_testing = df_testing_hour[all_features].values
In [51]: # Feature scaling
        scaler_testing = StandardScaler()
        scaler_testing.fit(X_testing)
        X_testing = scaler.transform(X_testing)
In [52]: # Make predictions on the new input features
        predictions_testing = trained_model_ada.predict(X_testing)
In [53]: # Plot actual values vs predicted values for this data set
        fig=plt.figure(figsize=(15,5))
        ax1=fig.add_subplot(111)
        ax1.plot(y_testing,label='Actual',lw=0.5)
        ax1.plot(predictions_testing,label='Predicted',lw=0.5)
        ax1.set_ylabel('Fuel consumption [m3/h]')
        plt.legend(loc='best')
        ax1.set_ylim(0.80,1.45)
        plt.show()
        plt.savefig('predactual.png')
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
```

Power consumption and correlation plots

June 10, 2019

1 Power consumption and correlation plots

1.0.1 Import necessary packages

```
In [1]: # Import packages
       %matplotlib notebook
        import pandas as pd
        import matplotlib.pylab as plt
        import numpy as np
        import datetime as dt
        from matplotlib import style
        style.use('ggplot')
        from pandas import datetime
        import datareservoirio as drio
        from pandas.plotting import register_matplotlib_converters
       register_matplotlib_converters()
In [2]: # Define the date/time format
        def parser(x):
           return datetime.strptime(x, '%Y-%m-%d %H:%M:%S.%f')
In [3]: # Authenticate access to DataReservoir
        auth = drio.Authenticator()
Authentication from previous session still valid.
In [4]: client = drio.Client(auth, cache_opt={'max_size': 128*1024})
In [5]: # Set start and end date for time series
        start='2019-01-25 16:00:00'
        end='2019-04-25 16:00:00'
```

2 Generator

```
In [6]: # Load raw data from DataReservoir
incomer_gen1_pwr_raw = client.get('8d799c0e-3c93-4e11-8a5f-268ba991c0b5', start=start,
```

```
incomer_gen2_pwr_raw = client.get('289f8ab1-6982-47af-803e-2628145ba4ed', start=start,
        incomer_gen3_pwr_raw = client.get('355f976b-1ed0-4337-956c-fdd51d9b93ab', start=start,
        incomer_gen4_pwr_raw = client.get('607ffd49-916b-4ea9-a971-114e3a25df27', start=start,
        incomer_gen5_pwr_raw = client.get('2b186ec6-254a-42cf-be5c-242c2d8c7588', start=start,
        incomer_gen6_pwr_raw = client.get('c570b34c-9fb2-4f87-a62d-70dc6d19d0b7', start=start,
        incomer_gen7_pwr_raw = client.get('1203cc00-c8b7-496c-b604-8f145f06cef7', start=start,
        incomer_gen8_pwr_raw = client.get('04d1a3c6-8bdd-47ff-af4e-ae099173643d', start=start,
In [7]: # Resample to 1s
        incomer_gen1_pwr_res = incomer_gen1_pwr_raw.resample('1s').pad()
        incomer_gen2_pwr_res = incomer_gen2_pwr_raw.resample('1s').pad()
        incomer_gen3_pwr_res = incomer_gen3_pwr_raw.resample('1s').pad()
        incomer_gen4_pwr_res = incomer_gen4_pwr_raw.resample('1s').pad()
        incomer_gen5_pwr_res = incomer_gen5_pwr_raw.resample('1s').pad()
        incomer_gen6_pwr_res = incomer_gen6_pwr_raw.resample('1s').pad()
        incomer_gen7_pwr_res = incomer_gen7_pwr_raw.resample('1s').pad()
        incomer_gen8_pwr_res = incomer_gen8_pwr_raw.resample('1s').pad()
In [10]: # Make dataframe and calculate sum of total power
         gen = pd.DataFrame({'Gen A': incomer_gen1_pwr_res, 'Gen B': incomer_gen2_pwr_res, 'Ger
        gen_filled = gen.ffill().bfill()
        gen_filled['Total power']=gen_filled.sum(axis=1)
        total_gen = gen_filled['Total power']
  Distribution (marine, drilling utilities, HVAC)
In [11]: # Load raw data from DataReservoir, drilling utilities:
```

```
drill13 raw = client.get('974e5070-8450-4b74-81d4-6c0917a0a9b1', start=start, end= end
drill23_raw = client.get('698672c9-de9d-4ca2-b936-30439c537600', start=start, end= end
drill33 raw = client.get('74435696-4263-4098-819f-91d0b2eb1b66', start=start, end= end=
drill43\_raw = client.get('acc525a6-1985-4a87-947f-d64d00e67afb', start=start, end=encorrections and encorrections are also access to the correction of the
# Load raw data from DataReservoir, HVAC consumers:
hvac14_raw = client.get('a1eb0078-67cd-43ed-a87d-29d1a9b25a6b', start=start, end= end
hvac15_raw = client.get('1b283686-97c9-4486-803f-40f76c9818a2', start=start, end= end)
hvac24 raw = client.get('2e0c3c2d-5068-4d5b-a4bf-e958e28c8f45', start=start, end= end)
hvac34_raw = client.get('687f8e6a-3b4b-4b0b-a5ee-a16240b7dfea', start=start, end= end)
hvac44_raw = client.get('123366d1-5690-46e3-9b37-f5bb771815b0', start=start, end= end)
# Load raw data from DataReservoir, marine utilities including column loads (mud tank
marine11_raw = client.get('0650c3f2-bd35-4bf5-b4e5-633937f1da7d', start=start, end= en
marine12_raw = client.get('18962a0a-a5a4-48a9-8723-5eb65607b29c', start=start, end= en
marine31_raw = client.get('bcc8edf2-e081-42c8-9952-6e98b65c2d91', start=start, end= en
```

```
marine42_raw = client.get('4192b518-7582-4a96-a03c-dca78b6baad8', start=start, end= en
In [12]: # Resample to 1s
        drill13_res = drill13_raw.resample('1s').pad()
        drill23_res = drill23_raw.resample('1s').pad()
        drill33_res = drill33_raw.resample('1s').pad()
        drill43_res = drill43_raw.resample('1s').pad()
        hvac14 res = hvac14 raw.resample('1s').pad()
        hvac15_res = hvac15_raw.resample('1s').pad()
        hvac24_res = hvac24_raw.resample('1s').pad()
        hvac34_res = hvac34_raw.resample('1s').pad()
        hvac44_res = hvac44_raw.resample('1s').pad()
        marine11_res = marine11_raw.resample('1s').pad()
        marine12_res = marine12_raw.resample('1s').pad()
        marine21_res = marine21_raw.resample('1s').pad()
        marine22 res = marine22 raw.resample('1s').pad()
        marine31 res = marine31 raw.resample('1s').pad()
        marine32 res = marine32 raw.resample('1s').pad()
        marine41_res = marine41_raw.resample('1s').pad()
        marine42_res = marine42_raw.resample('1s').pad()
In [13]: # Make dataframe and calculate sum of total power
        drill1 = pd.DataFrame({'Drill13': drill13_res, 'Drill23': drill23_res, 'Drill33': dril
        drill_filled = drill1.ffill().bfill()
        drill_filled['Total power']=drill_filled.sum(axis=1)
        drill_ut = drill_filled['Total power']*690*1.732*0.95/1000
In [14]: # Make dataframe and calculate sum of total power
        hvac1 = pd.DataFrame({'HVAC14': hvac14_res, 'HVAC15': hvac15_res, 'HVAC34': hvac34_res
        hvac filled = hvac1.ffill().bfill()
        hvac_filled['Total power']=hvac_filled.sum(axis=1)
        hvac = hvac_filled['Total power']*690*1.732*0.95/1000
In [15]: # Make dataframe and calculate sum of total power
        marine1 = pd.DataFrame({'Marine11': marine11_res, 'Marine12': marine12_res, 'Marine21
        marine_filled = marine1.ffill().bfill()
        marine_filled['Total power']=marine_filled.sum(axis=1)
```

marine41_raw = client.get('b32e327e-3321-4d79-9669-ed392af4dc48', start=start, end= en

```
marine = marine_filled['Total power']*690*1.732*0.95/1000
In [16]: # Calculate total power for distribution (drilling utility, hvac and marine)
         total_dist_sum = drill_ut + hvac + marine
   Drilling
In [17]: # Load raw data from DataReservoir
         drillA_raw = client.get('ed2dc553-4dde-44f8-a01c-005d2d26edd5', start=start, end= end)
         drillB_raw = client.get('a654a15e-ac8f-474e-87ad-f908ee4867ae', start=start, end= end)
         drillC_raw = client.get('827848ba-a13b-40e1-922e-24eba264ddd1', start=start, end= end)
         drillD_raw = client.get('f4741913-6689-4629-a498-b10e8dccad25', start=start, end= end)
In [18]: # Resample to 1s
         drillA_res = drillA_raw.resample('1s').pad()
         drillB_res = drillB_raw.resample('1s').pad()
         drillC_res = drillC_raw.resample('1s').pad()
         drillD_res = drillD_raw.resample('1s').pad()
In [19]: # Make dataframe and calculate sum of total power
         drill = pd.DataFrame({'Drill A': drillA_res, 'Drill B': drillB_res, 'Drill C': drillC.
         drill_filled = drill.ffill().bfill()
         drill_filled['Total power']=drill_filled.sum(axis=1)
         total_drill = drill_filled['Total power']
5 Thrusters
In [20]: # Load raw data from DataReservoir
         thrA_raw = client.get('4340d9cc-49ba-4271-afbd-c5ce7a21bac4', start=start, end= end)
         thrB_raw = client.get('e33b4f4a-0fe5-4a57-a7cc-cc25cfe8d665', start=start, end= end)
         thrC_raw = client.get('f81f31d6-8ece-4f2f-8d8e-ac84b9f86780', start=start, end= end)
         thrD_raw = client.get('a965b9f6-eee7-450a-a1fb-ea9b8dd4ff9e', start=start, end= end)
         thrE_raw = client.get('6b51198a-37eb-4e73-b3ea-60e6e84ec182', start=start, end= end)
         thrF_raw = client.get('701f5b8c-562f-4679-99c0-9834ce49665a', start=start, end= end)
         thrG_raw = client.get('2e47d7ed-53ed-4d81-aa16-f883d01582b3', start=start, end= end)
         thrH_raw = client.get('be304853-cfc6-4e43-a020-dd5be7791f87', start=start, end= end)
In [21]: # Resample to 1s
         thrA_res = thrA_raw.resample('1s').pad()
         thrB_res = thrB_raw.resample('1s').pad()
         thrC_res = thrC_raw.resample('1s').pad()
```

thrD_res = thrD_raw.resample('1s').pad()

```
thrG_res = thrG_raw.resample('1s').pad()
        thrH_res = thrH_raw.resample('1s').pad()
In [22]: # Make dataframe and calculate sum of total power
        thr = pd.DataFrame({'Thruster A': thrA_res, 'Thruster B': thrB_res, 'Thruster C': thrC
        thr_filled = thr.ffill().bfill()
        thr_filled['Total power']=thr_filled.sum(axis=1)
        total_thr = thr_filled['Total power']
In [23]: # Remove negative values (set negative values to 0)
        num = total_thr._get_numeric_data()
        num[num < 0] = 0
   Total power consumption
In [24]: # Total consumption (Drilling, thrusters, distribution)
        total_cons = total_drill + total_thr + total_dist_sum
In [25]: # Difference between generated and consumed power
        residual_consgen = total_gen - total_cons
In [26]: # Plot total consumed vs generated power
        fig=plt.figure(figsize=(12,3))
        ax1=fig.add_subplot(111)
        p = start
        q = end
        ax1.plot(total_cons.loc[p:q], label='Total power consumption',lw=0.5,c='mediumseagreer
        ax1.plot(total_gen.loc[p:q],label='Total generated power',lw=0.5,c='gray',linestyle='
        ax1.plot(residual_consgen.loc[p:q],label='Loss',lw=0.5,c='orchid')
        ax1.set_ylabel('kW')
        plt.legend(loc='best')
        ax1.set_ylim(-4000,22000)
        plt.show()
         #plt.savefig('residuals.png')
         #plt.savefig('CG-case1.png')
         #plt.savefig('CG-case2.png')
```

thrE_res = thrE_raw.resample('1s').pad()
thrF_res = thrF_raw.resample('1s').pad()

```
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
In [27]: # Mean efficiency (consumed vs. generated)
         eff = total_cons / total_gen
         eff.mean()
Out[27]: 0.9244692227155703
In [28]: # Pie plot of the power consumption
         power_mean = pd.DataFrame(
             {' ': [drill_ut.mean(), total_drill.mean() , marine.mean(), abs(total_thr.mean())
              'Max Power': [drill_ut.max(), total_drill.max(), marine.max(), total_thr.max(), l
              index=['Drilling Utility', 'Drilling VFD', 'Marine Utility', 'Thruster VFD', 'HV/
         power_mean.plot.pie(y=' ', labels=power_mean.index, figsize=(10,10), autopct='%1.1f%%
         plt.savefig('pieplot.png')
<IPython.core.display.Javascript object>
<IPython.core.display.HTML object>
In [30]: #Plot power consumption in line plot
         fig=plt.figure(figsize=(12,3))
         ax1=fig.add_subplot(111)
         start = '2019-01-25 16:00:00'
         stop = '2019-04-25 16:00:00'
         xlim=[pd.Timestamp(start), pd.Timestamp(stop)]
         ax1.plot(hvac,label='HVAC',lw=0.5)
         #ax1.plot(drill_ut, label='Drilling utilities', lw=0.5)
         #ax1.plot(marine, label='Marine', lw=0.5)
         #ax1.plot(total_drill, label='Drilling VFD', lw=0.5)
         #ax1.plot(total_thr, label='Thrusters', lw=1)
         #ax1.plot(total_cons, label='Total consumption', lw=0.5)
         ax1.set_xlim(left=start,right=stop)
         ax1.set_ylabel('kW')
         plt.legend(loc='best')
         ax1.set_ylim(-500,3000)
         plt.show()
         #plt.savefig('HVAC.png')
```

```
<IPython.core.display.HTML object>
6.0.1 Feature correlation between each group of consumers
In [34]: # Make dataframe
        df1 = pd.DataFrame({'Drilling_VFD': total_drill, 'Thruster_VFD': total_thr, 'HVAC': hv
In [35]: # Make correlation matrix
        corr matrix1 = df1.corr()
In [36]: # Visualize correlation matrix
        corr_matrix1.style.background_gradient(cmap='coolwarm')
Out[36]: <pandas.io.formats.style.Styler at 0x17d01194978>
6.0.2 Feature correlation with ops codes
In [37]: # Load data
        df_ops_hot = pd.read_csv('drilling_one_hot_encoded.csv',index_col='Datetime',parse_dat
        df ops hot.head(5)
Out[37]:
                                  1.0 2.0 3.0 5.0 6.0 7.0 8.0 11.0 12.0 \
        Datetime
                                  0
        2019-01-25 16:00:00+00:00
                                        0
                                             0
                                                       0
                                                            0
                                                                 0
                                                                       0
                                                                            0
                                                  Ω
                                  0 0
                                             0
                                                  0
                                                       0
                                                            0
                                                                 0
                                                                       0
                                                                            0
        2019-01-25 16:00:01+00:00
                                  0 0
                                                            0
                                                                0
        2019-01-25 16:00:02+00:00
                                             0
                                                  Ω
                                                       Ω
                                                                       0
                                                                            0
                                                            0
                                                                            0
        2019-01-25 16:00:03+00:00
                                  0 0
                                             0
                                                  0
                                                       0
                                                                 0
                                                                       0
                                  0 0
                                             0
                                                  0
                                                       0
                                                            0
                                                                 0
                                                                       0
                                                                            0
        2019-01-25 16:00:04+00:00
                                  13.0 ... 25.0 26.0 27.0 31.0 32.0 34.0 \
        Datetime
                                        . . .
                                     0 ...
        2019-01-25 16:00:00+00:00
                                               0
                                                     0
                                                           0
                                                                 0
                                                                       0
                                                                            0
        2019-01-25 16:00:01+00:00
                                     0 ...
                                                     0
                                                                 0
                                                                            0
                                               0
                                                           0
                                                                       0
        2019-01-25 16:00:02+00:00
                                     0 ...
                                               0
                                                     0
                                                           0
                                                                 0
                                                                       0
                                                                            0
        2019-01-25 16:00:03+00:00
                                     0 ...
                                               0
                                                     0
                                                           0
                                                                 0
                                                                       0
                                                                            0
        2019-01-25 16:00:04+00:00
                                                     0
                                                                       0
                                                                            0
                                     0 ...
                                               0
                                                                 0
                                  35.0 38.0 41.0 43.0
        Datetime
        2019-01-25 16:00:00+00:00
                                     0
                                           0
                                                0
                                                      1
        2019-01-25 16:00:01+00:00
                                           0
                                     0
                                                0
                                                      1
        2019-01-25 16:00:02+00:00
                                     0
                                          0
                                                0
                                                      1
                                        0
        2019-01-25 16:00:03+00:00
                                     0
                                                0
                                                      1
                                     0 0
        2019-01-25 16:00:04+00:00
        [5 rows x 26 columns]
```

<IPython.core.display.Javascript object>

```
In [38]: df2 = df_ops_hot.loc['2019-01-25 16:00:00+00:00':'2019-04-25 16:00:00+00:00']
In [43]: # Combine dataframes
         corr = pd.concat([df1,df2], axis=1)
In [44]: corr_matrix = corr.corr()
In [46]: m_corr=(corr_matrix.Drilling_VFD)
         m_corr_df= pd.DataFrame(m_corr)
         m_corr_df.sort_values(["Drilling_VFD"], ascending = False, inplace = True)
         m_corr_df
Out[46]:
                           Drilling_VFD
         {\tt Drilling\_VFD}
                               1.000000
                               0.656538
         2.0
                               0.526503
         Drilling_utility
         HVAC
                               0.200083
         5.0
                               0.194772
         3.0
                               0.051007
         35.0
                               0.037369
         21.0
                               0.034977
         34.0
                               0.000037
         27.0
                              -0.009270
         32.0
                              -0.011585
         26.0
                              -0.011847
         8.0
                              -0.015322
                              -0.019295
         1.0
                              -0.021962
         24.0
         19.0
                              -0.030983
                              -0.032918
         12.0
         6.0
                              -0.034488
         13.0
                              -0.038614
         23.0
                              -0.041016
         38.0
                              -0.044252
         15.0
                              -0.049682
         41.0
                              -0.062710
         25.0
                              -0.069584
         31.0
                              -0.076219
         14.0
                              -0.083721
         Thruster_VFD
                              -0.084822
         7.0
                              -0.093866
         11.0
                              -0.104600
         43.0
                              -0.139793
         Marine
                              -0.212632
```

```
In [47]: df_model_1 = total_drill.loc['2019-01-25 16:00:00+00:00':'2019-04-25 16:00:00+00:00']
```

```
In [50]: # Combine dataframe (Drilling VFD and operation codes)
        hist_df = pd.concat([df_model_1,df_model_2], axis=1)
In [51]: rigup = hist_df.loc[hist_df['1.0'] == 1]
        print(rigup['Total power'].mean())
        print(rigup['Total power'].max())
259.9999814992795
1621.672518
In [52]: drillactual = hist_df.loc[hist_df['2.0'] == 1]
        print(drillactual['Total power'].mean())
        print(drillactual['Total power'].max())
735.3058687676846
1664.697063
In [53]: reaming = hist df.loc[hist df['3.0'] == 1]
        print(reaming['Total power'].mean())
        print(reaming['Total power'].max())
606.0966778355929
1589.10252
In [54]: condition = hist_df.loc[hist_df['5.0'] == 1]
        print(condition['Total power'].mean())
        print(condition['Total power'].max())
460.4807005529498
2524.383515
In [62]: tripping = hist_df.loc[hist_df['6.0'] == 1]
        print(tripping['Total power'].mean())
        print(tripping['Total power'].max())
303.7825337160014
2063.1766049999997
In [63]: maint = hist_df.loc[hist_df['7.0'] == 1]
        print(maint['Total power'].mean())
        print(maint['Total power'].max())
```

In [48]: df_model_2 = df_ops_hot.loc['2019-01-25 16:00:00+00:00':'2019-04-25 16:00:00+00:00']

```
261.99408394444987
1681.987305
In [64]: repair = hist_df.loc[hist_df['8.0'] == 1]
        print(repair['Total power'].mean())
        print(repair['Total power'].max())
264.25946837484366
1382.021847
In [65]: wireline = hist_df.loc[hist_df['11.0'] == 1]
         print(wireline['Total power'].mean())
        print(wireline['Total power'].max())
258.22974081927896
1250.1335359999998
In [76]: run = hist_df.loc[hist_df['12.0'] == 1]
        print(run['Total power'].mean())
        print(run['Total power'].max())
291.3208896710072
1669.92434
In [77]: cement = hist_df.loc[hist_df['13.0'] == 1]
        print(cement['Total power'].mean())
        print(cement['Total power'].max())
280.2050563578717
1532.004578
In [78]: nipple = hist_df.loc[hist_df['14.0'] == 1]
         print(nipple['Total power'].mean())
        print(nipple['Total power'].max())
257.0956426033216
996.4094399999999
In [79]: testbop = hist_df.loc[hist_df['15.0'] == 1]
        print(testbop['Total power'].mean())
        print(testbop['Total power'].max())
252.63417396361004
1511.095411
```

```
In [80]: fishing = hist_df.loc[hist_df['19.0'] == 1]
         print(fishing['Total power'].mean())
         print(fishing['Total power'].max())
276.86528876872546
1425.046409
In [81]: stuck = hist_df.loc[hist_df['21.0'] == 1]
         print(stuck['Total power'].mean())
         print(stuck['Total power'].max())
684.8086183244438
1145.587967
In [82]: wow = hist_df.loc[hist_df['23.0'] == 1]
        print(wow['Total power'].mean())
        print(wow['Total power'].max())
250.74728232471918
683.576865
In [83]: marineops = hist_df.loc[hist_df['24.0'] == 1]
        print(marineops['Total power'].mean())
        print(marineops['Total power'].max())
269.82335234714327
482.92972759
In [84]: additional = hist_df.loc[hist_df['25.0'] == 1]
         print(additional['Total power'].mean())
        print(additional['Total power'].max())
257.1899883046777
1522.354215
In [85]: xmt = hist_df.loc[hist_df['26.0'] == 1]
         print(xmt['Total power'].mean())
        print(xmt['Total power'].max())
277.24626796813413
692.42302294
In [86]: workover = hist_df.loc[hist_df['27.0'] == 1]
        print(workover['Total power'].mean())
         print(workover['Total power'].max())
```

```
247.75710577092977
435.4821034
In [87]: tubing = hist_df.loc[hist_df['31.0'] == 1]
         print(tubing['Total power'].mean())
         print(tubing['Total power'].max())
264.46270735049484
1324.9238599999999
In [88]: niu = hist_df.loc[hist_df['32.0'] == 1]
         print(niu['Total power'].mean())
         print(niu['Total power'].max())
233.6850857774519
430.25485690000005
In [89]: testing = hist_df.loc[hist_df['34.0'] == 1]
         print(testing['Total power'].mean())
         print(testing['Total power'].max())
315.1675630434111
628.891468
In [90]: milling = hist_df.loc[hist_df['35.0'] == 1]
         print(milling['Total power'].mean())
         print(milling['Total power'].max())
384.34282365687824
1056.322137
In [91]: oandr = hist_df.loc[hist_df['38.0'] == 1]
         print(oandr['Total power'].mean())
         print(oandr['Total power'].max())
255.35594385667844
1372.7735519999999
In [92]: npt = hist_df.loc[hist_df['41.0'] == 1]
         print(npt['Total power'].mean())
         print(npt['Total power'].max())
230.3842547870296
1430.675735
```

C. Wärtsilä Technical Data



Technical data



Technical data 22.12.2015

Wärteilä 12V32 Marine main engine, diesel electric		
Wärtsilä 12V32, Marine main engine, diesel-electric	10	
Number of cylinders Engine speed	12 720	rnm
Engine output	5760	rpm kW
Bore	320	mm
Stroke	400	mm
Mean effective pressure	2,49	MPa
Mean piston speed	9,6	m/s
Combustion air system: (Note 1)		
Flow at 100% load	9,86	kg/s
Temperature at turbocharger intake, max	45	°Č
Temperature after air cooler, min (TE601)	50	°C
Temperature after air cooler, max (TE601)	60	°C
Temperature after air cooler, nom	55	°C
Temperature after air cooler, alarm	70	°C
Temperature after air cooler, stop	80	°C
Temperature before air cooler, nom	215	°C
Exhaust gas system: (Note 2)		
Flow at 100% load	10,17	kg/s
Flow at 85% load	9,65	kg/s
Flow at 75% load	8,7	kg/s
Flow at 50% load	6,3	kg/s
Temperature after turbocharger at 100% load (TE517)	384	°C
Temperature after turbocharger at 85% load (TE517)	331	°C
Temperature after turbocharger at 75% load (TE517)	330	°C
Temperature after turbocharger at 50% load (TE517)	354 500	°C ℃
Temperature after cylinder, alarm Exhaust gas backpressure, max	500 4	kPa
Exhaust gas pipe diameter, min	800	mm
Exhaust gas pipe diameter, min	600	mm
Calculated exhaust diameter for 35 m/s	827	mm
Heat balance at 100% load: (Note 3)		
Jacket water	949	kW
Charge air (HT-circuit)	915	kW
Charge air (LT-circuit)	728	kW
Lubrication oil	690	kW
Radiation	170	kW
Fuel system: (Note 4)		
Pressure before injection pumps, nom	700±50	kPa
Fuel consumption at 100% load (HFO)	182	g/kWh
Fuel consumption at 85% load (HFO)	180	g/kWh
Fuel consumption at 75% load (HFO)	181	g/kWh
Fuel consumption at 50% load (HFO)	191	g/kWh
Fuel consumption at 25% load (HFO)	224	g/kWh
Fuel consumption at 100% load (MDF)	182	g/kWh



Technical data

Fuel consumption at 85% load (MDF)	180	g/kWh
Fuel consumption at 75% load (MDF)	181	g/kWh
Fuel consumption at 50% load (MDF)	191	g/kWh
Fuel consumption at 25% load (MDF)	224	g/kWh
Leak fuel quantity (MDF), clean fuel at 100% load	22	kg/h
Leak fuel quantity (HFO), clean fuel at 100% load	4,4	kg/h
Lubricating oil system:		

500	kPa
300	kPa
200	kPa
40	kPa
50	kPa
30	kPa
63	°C
70	°C
81	°C
124	m³/h
106	m³/h
38/45,9	m³/h
6	m³
3	m³
30	microns
120	kPa
0,35	g/kWh
	300 200 40 50 30 63 70 81 124 106 38/45,9 6 3

High temperature cooling water system:

Pressure at engine, after pump, nom (PT401)	250+static	kPa
Pressure at engine, after pump, max (PT401)	530	kPa
Temperature before cylinders, approx. (TE401)	85	°C
Temperature after cylinders, nom (TE402)	96	°C
Temperature after cylinders without CAC, nom. (TE402)	96	°C
Temperature after charge air cooler, nom (TE432)	96	°C
Temperature after engine, alarm	105	°C
Temperature after engine, stop	110	°C
Capacity of engine driven pump, nom	100	m³/h
Pressure drop over engine, total	150	kPa
Pressure drop in external system, max	100	kPa
Pressure from expansion tank, min	70	kPa
Pressure from expansion tank, max	150	kPa
Delivery head of standby pump (excluding static pressure)	250	kPa
Water volume in engine	0,74	m³

Low temperature cooling water system:

Pressure at engine, after pump, nom Pressure at engine, after pump, max Temperature before engine, min Temperature before engine, max Capacity of engine driven pump, nom Pressure drop over charge air cooler Pressure drop over oil cooler Pressure drop in external system, max Pressure from expansion tank, min Pressure from expansion tank, max	250+static 530 25 38 100 35 20 100 70	kPa kPa °C °C m³/h kPa kPa kPa
Delivery head of stand-by pump (excluding static pressure)	250	kPa
r		



Technical data

Compressed air system: (Note 5)

Pressure, nom (PT301)	3000	kPa
Pressure, min (PT301)	1800	kPa
Pressure, max (PT301)	3000	kPa
Low pressure limit in air vessels	1600	kPa
Air consumption per start	5,7	Nm³

Notes:

- 1) At ISO 15550 conditions (ambient air temperature 25°C, LT-water 25°C) and 100% load. Tolerance 5%.
- At ISO 15550 conditions (ambient air temperature 25°C, LT-water 25°C) and 100% load. Flow tolerance 5% and temperature tolerance 10°C.
- 3) At ISO 15550 conditions (ambient air temperature 25°C, LT-water 25°C) and 100% load. Tolerance for cooling water heat 10%, tolerance for radiation heat 30%. Fouling factors and a margin to be taken into account when dimensioning heat exchangers.
- At ambient conditions according to ISO 15550. Lower calorific value 42 700 kJ/kg. With engine driven pumps (two cooling water + one lubricating oil pump). Tolerance 5%.
- 5) Automatic (remote or local) starting air consumption (average) per start, at 20°C for a specific long start impulse (DE/AUX: 2...3 sec, CPP/FPP: 4...6 sec) which is the shortest time required for a safe start.

Wärtsilä reference number:1318

Operational Codes

Date: 13.02.2019 Page: 1 of 10

Code Subcode Description Textblock

1		RIG UP AND TEAR DOWN	General rig up and tear down activities
-	1.0	RIG UP AND TEAR DOWN.	General rig up and tear down activities.
2	1.0	DRILL ACTUAL	Drilling operations.
	2.00	DRILL ACTUAL	Rotating bit on bottom, including circulating / reaming prior to
	2.00	DRIEL NOTONE	connection & connection time. Includes taking weights and SCR
	2.10	UNDERREAMING	Enlarging hole below last sat csg.
	2.20	HOLE OPENING	Rotating hrs. while enlarging pilot hole using holeopner or larger
	2.20	I DELLE GI ELVII (G	bit.
	2.30	DRILL CEMENT	Time spent drilling cement.
	2.40	TIME DRILLING	Time spent on time driling
	2.50	DRILL ACTUAL TOOL FAILURE	Reduced ROP due to Tool failure
	2.60	PRESSEREPOINTS WHILE DRILLING	From stop drilling to start drilling after pressurepoint
	2.70	CASING WHILE DRILLING	CWD, rotating bit on bottom, including circulating /while running
			casing
	2.75	JETTING CONDUCTOR	Time spent jetting conductor
	2.80	DIRECTION WORK	Time spent on setting tools and getting survey if <15 min
	2.90	SCR	Time spent on taking slow circulation rates
3		REAMING	Reaming when running in or pulling out of hole.
	3.00	REAMING	Time spent on rotating string during RIH due to tight hole,
			exessive fill or undergauged hole.
	3.10	BACKREAMING	Time used to rotate drillstring while POOH. Incl.wipertrip to
			improve hole conditions.
	3.30	NIU	Not in use
4		CORING	Coring operations
	4.0	CORING	Actually coring on bottom, removing core & service
		GOVERNOVA NA GARGANA A GAR	coreequipment.
5		CONDITION MUD & CIRCULATE	Circulate and condition well fluid
	5.0	CIRCULATE AND CONDITION MUD	Time used for circulate and condition mud. Can be used when circulating to get down gas level without closing BOP
	5.01	CIRCULATE HOLE CLEAN	Time used to circulate the hole/well clean
	5.02	DISPLACE WELL/RISER	Time used for displacing well ,riser, bop and kill and choke lines
	5.03	TREATING WELL	TREATING WELL
	5.04	PUMP PILL	Time spent on pumping pill if time speint is <15 min
	5.05	MUD AND FLUID PREPARATION	Time used to prepare fluid and line up
	5.06	JET AROUND WELLHEAD	Time spent on jetting around the wellhead with example jetsub,
			muleshoe, BHA
	5.07	MIX AND PREPARE MUD	Mix and prepare mud prior to drill ahead
6		TRIPPING	Tripping operations
	6.00	RIH CH	Tripping in with string in cased hole.Do not include filling of pipe if time spent >15 minutes.
	6.01	РООН СН	Pulling out with string i cased hole.
	6.02	PUMP AND POOH OH	Time used to pull string out of open hole while pumping
	6.03	PUMP AND POOH CH	Time used to pull string out of cased hole while pumping
	6.04	PUMP SLUG	Time used to pump slug before trips
	6.05	EMPTY TRIP TANK	Time used to empty trip tank <15 min
	6.06	FILL TRIP TANK	Time used to fill Trip tank< 15 min
	6.07	RIH CH Reduced speed	Tripping in with string in cased hole, with reduced speed.
	6.08	POOH CH reduced speed	Pulling out with string in cased hole, with reduced speed
	0.00	r 5511 C11 Toddcod speed	anning out with string in cased note, with reduced speed

Date: 13.02.2019 Page: 2 of 10

Ipipe integrity signal test BHA includes HWDP. Ing down BHA includes HWDP. Ing MWD and all surface handling of Ig with rig tongs, includes rig up and rig
ng down BHA includes HWDP. ng MWD and all surface handling of
ng MWD and all surface handling of
g with rig tongs, includes rig up and rig
MWD
ng handling equipment
vired bottom hole assembly
of wired bottom hole assembly
hole with wired drillpipe
t of hole with wired drill pipe
in or out of hole during trip. Can include e circulating/pumping.
up or down during a trip. Includes
o engage topdrive to string, compensate
e whipstock run on pipe
rillstring to from deck - in use from
drillstring to deck - in use from 23.08.07
nanual rig tongs or manual slips. Both
ripping equipment (elevator/inserts rails).
versub. Operational time.
15 minutes
well.
of open hole. Do not include filling of ion if time spent <15 minutes.
· ·
or to stab in / pull out of wellhead with
e with BHA. Includes installing of guideframe.
riser - in use on ultra deep water
riser - in use on ultra deep water
e tools through BOP
with full bore tools. like boreprotector etcter.
en water
f open water A

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Code	Subcode	Description	Textblock
	6.90	TAKE PRESSURE POINT WHILE RIH	To be used when taking pressure point when RIH.
	6.91	TAKE PRESSURE POINT WHILE POOH	To be used when taking pressure point when POOH
7		PLANNED MAINTENANCE	All maintenance that is planned that stops operations.
	7.01	PLANNED MAINTENANCE	Normal and planned lubrication and service of rig.
	7.02	INSPECTION OF RIG	Inspection of rig prior to run csg. or inspection before and after bad weather and DROPS
	7.03	OPERATOR PLANNED MAINTENANCE	Maintenance that is planned by operator that requirer stop in the operation.
	7.04	UNPLANNED MAINTENANCE	Unplanned maintenance that is not planned and require stop in operation.
8		REPAIR RIG	
	8.0	REPAIR RIG	Actual downtime used on rig repairs. if poosible use sub
	8.01	MECHANICAL REPAIRS	Actual time spent on repair rig due to mechanical reasons.
	8.02	ELECTRICAL REPAIRS	Actual time spent on repair rig due to electrical reasons.
	8.03	DOWN TIME, OTHERS	Down time, others, caused by OD (Odfjell Drilling).
	8.04	DOWN TIME - BOP and Control system	Code for BOP and adhering control systems including pod's.
	8.05	DOWN TIME - Riser and Slipjoint	Code for reporting downtime related to equimpment from the BOP riser adapter and all adhering riser- and slip joint equipment up to drill floor».
	8.06	DOWN TIME - ROV Operations - Tech	Time spent waiting for ROV operations due to technical failure or any deficiencies
	8.07	DOWN TIME - ROV Operation - Resourc	Time spent waiting for ROV operations due to Resources
	8.08	DOWN TIME - Casing running - Tech	Time spent waiting for Casing running services due to technical failure or any deficiencies
	8.09	DOWN TIME - Casing running - Resour	Time spent waiting for Casing running services due to insufficien resources
9		SLIP & CUT	Time spent on slip and cut operations, change of drill - line or restring off block.
	9.01	SLIP & CUT DRILLING LINE	Time spent on slip and cut operations
	9.02	CHANGE OF DRILL LINE	Time spent on changing drill line
	9.03	STRINGING BLOCK	Time spent on stringing block, also when restringing lines.
10		DEVIATION SURVEY/MWD LOGGING	Time spent on taking deviation surveys and MWD logging
	10.01	DEVIATION SURVEY	Surveys with singel / multi shots for determine hole direction and deviation. NOT TO INCLUDE; Surveys with MWD during drilling
	10.02	MWD LOGGING	Surveying with MWD tool, time used for logging with MWD. NOT TO INKLUDE; Surveying time while drilling.
	10.03	NIU	Not in use
11		WIRE LINE OPERATIONS	Time spent on wire line logging operations.
	11.01	WIRE LINE LOGGING	Running wireline logging equipment. Includes formation tester, FMT, sidewall cores, seismic logs etc.
	11.02	RIG UP OR DOWN FOR WIRELINE	Time spent rigging up or down for wireline, including time spent handling W-L tools on surface w/ rig equipment between runs.
	11.03	WL OPERATIONS	Other wire line operation. Installation/retrieving plugs etc.
	11.04	TLC LOGGING	Time spent on TLC logging. Not to be used on trip inn and out.
	11.05	WIRE LINE TESTING	All presure testing of wire line equipment and testing of X-mas tree and DHSV, etc
12		RUN AND PULL CASING/LINER	Preferentially use sub codes 12.1 "RUN CSG." or 12.2 "CMT."
	12.00	RUN CASING IN CASED HOLE	Time spent on running casing & liner in cased hole.

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	e Description	Textblock
12.05		Time spent on pulling casing & liner in cased hole.
12.09		Time spent on pulling casing in open hole.
12.10		Time spent on running casing in open hole.
12.11	· ·	Includes all rig up of csg and liner running equipment.
12.12		Includes all rig down of csg and liner running equipment.
12.13	SEAL ASSY / WEAR BUSHING	Time spent on pulling/setting & testing seal assembly & weal bushing.
12.14	LAND/ PULL CSG ON LANDING STRING	Run/pull csg on ex drill pipe or csg landing string
12.15	RUN LINER IN CASING	Time spent on running liner in cased hole
12.16	RUN LINER ON LANDING STRING IN CSG	Time spent on running liner on drillpipe or other landing stri casing.
12.17	RUN LINER IN OPEN HOLE	Time spent on running liner in open hole
12.18	BUILD CSG STANDS	P/U & build csg for racking in drk
12.19	LAY DOWN CSG STANDS	B/O & L/D csg stands from drk.
12.20	CIRC. CASING/LINER	Circulating prior to and after casing / liner is landed.
12.21	CLEAN WH PRIOR TO RUN CASING/TUBING	Time spent on washing wellhead prior to running casing.
12.22	RUN LINER ON LANDING STRING IN OH	Time spent on running liner on drillpipe or other landing stri OH.
12.23	PULL LINER ON LANDING STRING IN OH	Time spent on pulling liner on drillpipe in open hole.
12.24	PULL LINER ON LANDING STRING IN CSG	Time spent on pulling liner on drillpipe in casing.
12.25	RUN CSG IN CH (REST SPEED)	Time spent running casing in cased hole with restricted runn speed.
12.26	RUN CSG IN OH (REST SPEED)	Time spent running casing in open hole with restricted runni speed.
12.27	RUN LINER IN CH (REST SPEED)	Time spent running liner in cased hole with restricted runnin speed.
12.28	RUN LINER ON DP IN OH (REST SPEED)	Time spent running liner on pipe in open hole with restricted running speed.
12.29	RUN LINER ON DP IN CH (REST SPEED)	Time spent running liner on pipe in cased hole with restricted running speed.
12.30	CUT CASING	Time spent on cutting casing. Not to be used on trip in and o prior or after cut.
12.31	SETTING OF LINERHANGER	Include setting of same
12.40	Run CSG in open water RIH	Time spent on running casing in open water
12.41	Pull CSG in open water POOH	Time spent pulling casing in open water
12.42	Run Conductor in open water RIH	Time spent running conductor in open water
12.43	Pulling conductor in open water	Time spent pulling conductor in open water POOH
12.50	MOVE RIG RUN PULL CASING/LINER	Includes move rig to / from well.
12.60	MAKE UP SHOETRACK	Time spent making up Shoetrack
12.88	SET/RELASE MECH PLUGS	All time used on setting and releasing mechanical plugs that
		run on pipe.
12.89	RUN CONDUCTOR	Run Conductor
12.90	PICK UP AND MAKE UP CASING HANGER	Pick up and make up casing hanger
	RUN INNERSTRING IN CASING	Time spent on running innerstring in casing
12.91		
12.91 12.92	RELEASE HANGER RUNNING TOOL	Time spent on release hanger running tool from well head/se hanger

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Code	Subcode	Description	Textblock
			surface equipment.
	13.01	WAIT ON CEMENT	Time spent waiting on cement to set.
	13.02	PUMP CMT	Pumping of spacer, cement and displasing of cement.
	13.03	SQUEEZE CEMENT	Time spent on squeezing cement. Not to be used on trip in and ou
			prior to squeeze cmt.
	13.10	PRESSURE TEST CEMENT	Time spent on testing cement.
	13.20	PRESSURE TEST OF CASING	Time spent on testing casing
14		NIPPLE B.O.P.	Installing BOP, Diverterstack and risers for initial installation and required BOP handling during drilling operations.
	14.00	NIPPLE UP B.O.P	Time spent on preparing BOP for running on subsea or preparing and nipple up BOP on HP riser on fixed rigs.
	14.01	NIPPLE DOWN B.O.P.	Time spent on preparing BOP for pulling on subsea or preparing and nipple down BOP on HP riser on fixed rigs.
	14.1	NIPPEL UP / DOWN WELLHEAD	Time spent on wellhead sections, conversion seal assembly and other wellhead equipment. NOT TO INCLUDE: Time spent on setting seal assy, Use code 12.13
	14.10	PREPARE & RIGGING IN MOONPOOL	All time spent rigging or preparing in moonpool for run or pull BOP
	14.11	PRESSURE TEST K&C LINES	Time spent on pressure test k&c lines when running BOP.
	14.12	PREPARE TO RUN BOP	Prepare to run subsea BOP. Includes rigging up riser handling equipment.
	14.15	PREPARE TO PULL BOP	Prepare to pull BOP. Includes rigging up riser handling equipment.
	14.16	TELESCOPIC JOINT	Time spent on handling Telescopic Join.
	14.17	RIG DOWN BOP RUNNING EQUIPMENT	Rig down BOP running equipment
	14.18	RIG UP BOP RUNNING EQUIPMENT	Time spent on rigging before running BOP
	14.19	RUN BOP	Time spent on running BOP. NOT TO INCLUDE: Move rig to/off wellhead (use code 14.30)
	14.191	RUN BOP WITH SLICK RISER	Time spent on running BOP with SLICK RISER
	14.192	RUN BOP WITH BUOYANG RISER	Time spent on running BOP with BUOYANG RISER
	14.193	RUN BOP WITH FAIRING BUOYANG RISER	Time spent on running BOP with FAIRING BUOYANG RISER
	14.20	PULL BOP	Time spent on pulling BOP. NOT TO INCLUDE: Move rig to / off wellhead.(use code 14.30) Time spent on setting wear bushing, (Use code 12.13).
	14.201	PULL BOP WITH SLICK RISER	Time spent on pulling BOP with SLICK RISER
	14.202	PULL BOP WITH BUOYANG RISER	Time spent on pulling BOP with BUOYANG RISER
	14.203	PULL BOP WITH FAIRING BUOYANG RISER	Time spent on pulling BOP with FAIRING BUOYANG RISER
	14.21	RUN HP-RISER	Time used on run HP-riser on fixed rigs.
	14.22	PULL HP-RISER	Time used on pull HP on fixed rigs.
	14.23	RUN, LP-RISER / DIVERTER	Time used on run , LP-RISER /DIVERTER .
	14.24	PULL ,LP-RISER /DIVERTER	Time used on pull , LP-RISER / DIVERTER.
	14.25	RIG UP BEFORE RUNNING LMRP	Time spent on rigging up before running LMRP
	14.26	INSTALL KILL, CHOKE, BOOST & COND.	All time spent for installing Kill, Choke, Boost & conduit gooseneck's on telescopic joint.
	14.27	RUN PROD. RISER	Run prod. Riser
	14.28	PULL PROD. RISER	Pull Prod. Riser
	14.29	RUN/PULL RISER PUP`S	Time spent to P/U or L/D to run or pull riser pup jnt`s.
	14.30	LAND BOP	Move rig & prepare to land BOP, includes running of slipjoint and etc.

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Code	Subcode	Description	Textblock
	14.31	HANDLE LANDING JOINT	Time spent to P/U and install landing joint or disconnect and L/D
			same.
	14.32	INST./DISC. LOOPS/SHEAVES FOR HYDR.	Time spent on installing or disconnecting loops or sheaves for
	11.00	DDED I DE TO VIA DE DOD	hydraulic lines, mux cable or electric cables.
	14.33	PREPARE TO JUMP BOP	Time spent before and after jumping BOP
	14.34	JUMP BOP	Time spent for jumping BOP from one well to next.
	14.40	DISC. BOP	Disconnect BOP & move rig.
	14.41	Disconnect LMRP	Disconnect LMRP due to weather conditions
	14.42	Connect LMRP	Connect LMRP to BOP
	14.45	RUN/PULL SLOT NET	Trekking og kjøring av slot net
	14.99	NIU	Not in use
15		TEST BOP / PRESSURE TESTING	All time spent on pressure testing BOP and equipment.
	15.0	PRESS.TESTING OF CSG UNDER BOP TEST	Time spend testing casing in connection to BOP test.
	15.01	FUNCTION TEST BOP	Function testing of BOP.
	15.02	PRESSURE TEST MANIFIOLDS AND LINES	All rigtime spent on testing standpipe, kill & choke manifoils,
			fixed cmt lines standpipe and etc.
	15.03	PRESSURE TESTING KELLY COCKS	Rigg time spent on testing DDM, kellycooks, Grey valves &
			temporarily hooked up surface lines.
	15.04	KICK DRILL, CHOKE DRILL	Time spent for kick drills and practice on choke or strip drill.
	15.05	LEAK-OFF / FIT TEST	Time spent performing leak off test or FIT.
	15.06	CONNECTOR TEST	Test of wellhead and LMRP connector
	15.07	FUNCTION TEST DIVERTER	Time spent on function test of the diverter system.
	15.08	PRESSURE TEST SHEAR RAM	Pressure test shear ram
	15.11	PRESSURE TEST BOP	Pressure test BOP include function test on wellhead. Includes
			macking up test string and run/pull same.
16		DRILL STEM TEST	
	16.0	DRILL STEM TEST	Making up drill stem testing tool, conducting test, killing well an
			lay down test tool. NOT TO INCLUDE; R/U or R/D testing
			equipment; Use code 1. "RIG UP & TEAR DOWN"
17			Not in use
	17.0	NIU	Not in use
	17.1	NIU	Not in use
18			Not in use
	18.0	NIU	Not in use
19		FISHING	All lost rig time lost due to fishing operations until normal
			operation continues. TO INCLUDE: Wireline operations, feepoin
	10.0	EIGHING OTHERS	indicators, backoff operations
	19.0	FISHING, OTHERS	Fishing activities not covered by 19.1 or 19.2
	19.1	FISHING OF DRILL STRING	Fishing for drillsting or drill string component.
20	19.2	FISHING FOR WIRELINE EQUIPMENT	Fishing for loggs & wireline-equipment.
20	20.1	h yyy	Not in use
21	20.1	NIU	Not in use
21	20.0	STUCK PIPE	Lost operation time due to sticking or going stuck
	20.0	NIU	Not in use
		ICTLICK WITH DDILL CTDING	Lost operation time due to sticking or going stuck
	21.0	STUCK WITH DRILLSTRING	1 0 0 0
	21.0 21.1	STUCK WITH DRILLSTRING STUCK WITH LOGGING EQIUPMENT	Lost Rig time/operation time due to going stuck with wireline equipment. INCLUDES; Stuck during TLC logging.

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Code	Subcode	Description	Textblock
	21.3	NIU	Not in use
22		LOST CIRCULATION	
	22.0	LOST CIRCULATION	All time spent to regaing circulation. Flowchecks, mixing of pills
			cmt. squeeze, spotting of pluggs and waiting etc. are to be
			included.
23		WAITING ON WEATHER	
	23.00	WOW DRILLING	Waiting on weather: Lost time due to stop in operation until normal operation can continue.
	23.10	WOW ROV	Waiting on weather:Lost time due to stop in ROV operation until
	23.10	WOW KOV	normal operation can continue.
	23.20	WOW SUB SEA EQUIPMENT	Waiting on weather:Lost time due to stop in landing / pulling
	23.20	WOW BOD BEAT EQUIT MENT	operation until normal operation can continue.
	23.30	WOW SUPPLY	Waiting on weather:Lost time due to stop in unload / load
			operation of supply boat until normal operation can continue.
	23.40	WOW ANCHOR HANDLING	Waiting on weather:Lost time due to stop in anchor handling
			operation until normal operation can continue.
	23.50	WOW CRANE	Waiting on weather:Lost time due to stop in crane operation until
			normal operation can continue.
	23.60	WOW NON DRILLING ACTIVITIES	Waiting on weather: Lost time due to stop in operation until
			normal operation can continue.
	23.70	WOW OPERATOR / SERVICE COMPANY	Waiting on weather: Lost time due to Operator or Service
24		MADINE OPED ATIONS / SWIP DIG	company limitations until normal operation can continue.
24		MARINE OPERATIONS / SKID RIG	Activities in connection with rig move and anchorhandling on floating wessels and activities in connection with rig skidding on
			fixed platforms.
	24.00	IN TRANSIT / SKID RIG	IN TRANSIT
	24.10	ANCHOR HANDLING DEPARTURE	Time spent on anchor handling when departure location.
	24.100	NIU	Not in use
	24.20	ANCHOR HANDLING ARRIVAL	Time spent on anchor handling when arriving location.
	24.30	PREPARE TO SKID	Prepare to skid rig.
	24.40	SKID	Skid rig.
	24.50	RIG UP AFTER SKID	Rig up after skid
	24.60	YARDSTAY/MAINTENANCE STOP	Yardstay, maintenance stop on fixed rigs.
	24.70	DYNAMIC POSITIONED MODE	UNTIL POSITONING THROUGH THE DIGITAL GLOBAL
			POSITION SYSTEM HAS COMMENCED AT THE NEW
			WELL LOCATION
	24.71	DEPLOYING/RETREAVING TRANSPONDERS	Deploying or retreaving transponders and hydrophones.
	24.72	HYDRO ACCOUSTIC CALIBRATIONS	Hydro accoustic referance system calibration
	24.73	DP TRIALS	DP TRIALS
	24.80	HOOK UP PRELAID ANCHORS	Time spent for marine operations
	24.81	RELEASE PRELAID ANCHORS	Time spent for marine operations
	24.85	BALLAST RIG	Time spent for marine operations
	24.86	DEBALLAST RIG	Time spent for marine operations
	24.90	BRAKE TEST ANCHOR WINCHES	Time spent for marine operations
	24.91	TOW RIG TO 500 m ZONE	Time spent for marine operations
	24.98	MOVE RIG TO WELL/OFF WELL	Move rig to well/off well
	24.99	NIU	Former: Time spent for any additional marine operations
25		ADDITIONAL	
	25.0	NIU	Former: Operations not covered by any other code.

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Code	Subcode	Description	Textblock
	25.1	ROV OPERATIONS	All operations done by ROV, not covered in others code.
	25.2	STAND BY RATE	
	25.22	DROP's Inspection	Performing DROP's inspection of equipment in derrick or monpool
	25.3	PREJOBMEETING - BRIEF/DEBRIEF	Meetings in operation. Prejobbmeeting, safetymeeting, brief, debrief, pit stop or other meetings included in operation (100 % rate).
	25.31	TOFS – Time Out for Safety in opera	TOFS - Time Out for Safety in operation.
	25.4	SUSPENSION RATE	Due to period of sustension
	25.5	REDRILLING RATE	drill new well hole to the depth at which the loss ore damage occorred or re-drill such section of the damaged well hole.
	25.6	NO PAYMENT OF RATE	The drilling unit is for any reason unable to perform the Drilling Service. Modification, Re Certifying
	25.7	FORCE MAJEURE RATE	etc. strike
	25.8	Reduced Efficiency Rate	Reduced Efficiency rate
	25.91	Equipment planned maintenance	Stop in operation due to planned maintenance on equipment ie in between well maintenance
	25.92	Mobilization	Mobilizing rig for operations
	25.93	Demobilzation	Demobilzation of Rig after operation
	25.99	RETRIEVE BOP DUE TO OEM SAFETY BULL	Any time used, due to oem safety bulletins
26		XMT	
	26.00	XMT PREPARE RUN	Prepare to run XM-tree Includes testing, running tool & umbilical.
	26.10	XMT RUN	Run XM-tree Includes: Landing on fixed rigs.
	26.20	XMT LAND	Move rig & land
	26.30	XMT R.TOOL	Pull XM-tree running tool and lay down
	26.35	INSTALL JUMPER HOSES	Install 3" & 4" jumper hoses and test same
	26.40	XMT TEST	Test XMT/TRT when landed.
	26.50	XMT PREPARE PULL	Prepare to pull XM-tree
	26.60	XMT PULL	Pull XM-tree
	26.70	ADAPTOR FLANGE	Time spent on Adaptor flange
	26.71	HPTC RIG UP	Time spent on rigging up equipment before running HPTC
	26.72	RUN HPTC / RUNNING TOOL	Time spent on running HPTC or running frame on pipe or winch
	26.73	TEST HPTC	Time used on testing HPTC.
	26.74	PULL HPTC / RUNNING FRAME	Time spent on pulling HPTC or Running frame.
	26.75	HTPC RIG DOWN	Time spent on rigging down equmpent after running HPTC.
	26.80	RUN TRT/RPD	Time spent on prepering and running TRT/RPD
	26.81	PULL TRT/RPD	Time spent on prepering and pulling TRT/RPD
	26.90	Handle Subsea EQ on DrillFloor	Time spent handling Subsea Equipment on drillfloor.
	26.91	Work with Subsea EQ in WH area	Time spent working with Subsea Equipment in Wellhead area.
27		WORKOVER RISER	TIME SPENT ON WORKOVER RISER
	27.00	WOR RIG UP	Rig up equipment
	27.10	WOR RUN	Run
	27.20	WOR PULL	Pull
	27.30	WOR RIG DOWN	Rig down equipment
	27.40	WOR OTHER	Other
28		SURFACE TEST TREE	Time spent rigging up and down SST.
	28.00	STT RIG UP	Rig up surface test tree

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ue		Description	Textblock
	28.10	STT RIG DOWN	Rig down surface test tree
	28.20	NIU	Not in use
29	20.00	SCREEN	
	29.00	SCREEN RIG UP / DOWN	Rig up / down equipment
	29.10	SCREEN RUN	Run screens. Includes landing string
	29.20	NIU	Not in use
30		PERFORATING	
	30.00	RIH PERFORATION GUNS	Run in hole with perforation guns
	30.10	POOH PERFORATION GUNS	Pull out of hole with perforation guns
	30.20	PERFORATION GUNS CORR AND PERFORAT	
	30.30	P/U PERFORATING GUNS	Pick up perforation guns
	30.40	L/D PERFORATING GUNS	Lay down perforation guns
31		TUBING	
	31.00	RUN TUBING	Run tubing.
	31.01	P/U AND INSTALL TBG ASSEMBLIES	Install and terminate TBG assemblies
	31.02	RIG UP FOR DUAL TUBING	Time spent on rig up for dual tubing.
	31.05	RUN TUBING DUAL STRING	Run tubing dual string
	31.10	PULL TUBING	Pull Tubing.
	31.15	PULL TUBING DUAL STRING	Pull tubing dual string
	31.20	RIG UP TUBING	Rig up tubing equipment
	31.21	RIG DOWN TUBING	Rig down tubing equipment
	31.22	RUN TUBING HANGER ON WOR	Time spent on running tubing hanger on WOR
	31.23	PRESSURE TEST TUBING AND CONT LINES	Time spent on testing tubing/controll-lines during completion
-	31.30	PICK HANGER MAKE UP AND TEST	Make up hanger land and test
_	31.40	RUN TUBING ON LANDING STRING	Run on landing string.
	31.40	PULL TUBING ON LANDINGSTRING	Pull on landing string
	31.50	TERMINATING AND TESTING CONT LINES	Time spent on termination and testing of control lines
	31.51	SPACE OUT AND LAND TUBING HANGER.	1
	31.31	SPACE OUT AND LAND TUBING HANGER.	Time spent on space out tubing and land tubing hanger. Inclusetting of prod packer.
32			Not in use
) <u>4</u>	32.0	NIU	Not in use
33	32.0	NIO	Not in use
)3	33.0	NIU	Not in use
34	33.0	TESTING	Two in use
77	34.0	INFLOWTEST	Well testing.
	34.10	ACCEPTANCE TEST	Acceptance test
-	34.10	INJECTIVITY TEST	INJECTIVITY TEST
35	34.2	MILLING	Time spent on milling
)3	35.0	MILLING	Time spent on milling, not to be used on trip inn and out.
36	33.0	GRAVEL PACK	Time spent on mining, not to be used on trip init and out. Time spent on gravelpack operations
00	36.0	GRAVEL PACK GRAVEL PACK	Gravel packing operations.
37	30.0	UKA VEL FACK	
)/	27.0	NIU	Not in use
38	37.0	O & R	Not in use
oō		Uak	Stop due to housekeeping/cleaning are provided prior to operations are allowed to continue.
	38.0	CLEAN AND CLEAR RIGFLOOR	Stop due to housekeeping/cleaning are provided prior to open
	30.0	CLEAN AND CLEAK KIGITLOOK	Stop due to housekeeping/cleaning are provided prior to opera
			continue.

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Code	Subcode	Description	Textblock
	39.0	NIU	Not in use
	39.01	NIU	Not in use
40		COILTUBING/SNUBBING	
	40.10	Rig up coil tubing/snubbing	Time spent on rigging up coiltubing/snubbing equipment
	40.11	Rig down coil tubing/snubbing	Time spent on rigging down coiltubing/snubbing equipment
	40.20	Test coil tubing/snubbing	Time spent on testing coiltubing/snubbing, also for testing before RIH
	40.30	Run coil tubing/snubbing	Time spent RIH with coiltubing/snubbing.
	40.40	Pull coil tubing/snubbing	Time spent on pull coiltubing/snubbing out of hole
41		NON PRODUCTIVE TIME	
	41.01	WAIT ON 3.PART	Waiting on 3.part equipment og people
	41.02	WAIT ON ROV	Wait in etc. maintence of subsea wells.
	41.03	NPT	NPT Drilling contractor
	41.10	WAIT ON CRANES	Wait on cranes(platforms only)
	41.20	WAIT ON INSTRUCTIONS	Wait on company instructions
	41.30	WAIT ON EQUIPMENT, OPERATOR	Wait on equipment, operator
	41.40	WAIT ON EQUIPMENT, CONTRACTOR	Wait on equipment, contractor
	41.50	WAIT ON MATERIALS	Wait on materials
	41.60	WAIT ON PLATFORM OPS	Wait on platform operation schedule
	41.70	WAIT ON INVESTIGATION	Wait on investigation
	41.80	WAIT ON PERMITS	Time awaiting permits and alteration etc
	41.90	WAIT ON PERSONELL	Wait on personell etc. crewchange
42		SHUT IN WELL	
	42.10	SHUT IN WELL DUE TO GAS	Shut in well due to high gas level in mud and time spent sirculating with closed BOP
	42.20	SHUT IN WELL DUE TO KICK	Shut in well due to kick and time spent sirculating with closed BOP
43		AUX	
	43.1	AUX NO OPERATIONAL ACTIVITY	To be used for the Aux when there is no operational activity in the Aux. Time in aux spent on cleaning/maintenance of drilling equipment. Also to be used when Aux crew is working in Main.
	43.2	MAKE UP TOOLS OFFLINE	Building Eqiupment in buckingmachine
	43.3	Assist main well operations	To be used for the Aux when assisting main well operations.
	43.4	Install / Pull mousehole	running or pulling mousehole.
	43.5	MAIN OPERATION IN OTHER WELL CENTER	To be used when standing by for operation in other well center.

E. Daily Drilling Log

3-apr-19 Deepsea Atlantic	art Time En 10:20	11:50	90 0	38,01 CLEAN AND CLEAR RIGFLOOR		5/11-B-12 BY1H
3-apr-19 Deepsea Atlantic	09:30	10:20	50 0	6,11 LAY DOWN BHA	100 L/D sngl HW, RT with GTV plug and Scrape to RCWM.L/D scrape with tugger. 35, POOH with GTV plug on 5 7/8" HWDP T/18m.	5/11-B-12 BY1H
3-apr-19 Deepsea Atlantic	09:15	09:30	15 18	6,83 POOH with BHA	100 Compensated through BOP. 35,	5/11-B-12 BY1H
3-apr-19 Deepsea Atlantic	08:45	09:15	30 387	6,08 POOH CH reduced speed	100 Continued POOH with GTV plug and scrape T/387m MD. 35,	5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic 0-apr-19 Deepsea Atlantic	08:35 07:00	08:45	10 812 95 812	6,41 FLOW CHECK 6,08 POOH CH reduced speed	100 POOH with GTV nine and scrane on 5.7/8" DP T/812m MD. Observed serveral points of OP 35.	5/11-B-12 BY1H 5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic	05:50	07:00	70 1853	6,08 POOH CH reduced speed	100 POOH with GTV plug and scrape on 5 7/8" DP. From 1948m to 1856m. Observed some over 35.	5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic	05:40	05:50	10 1948	6,04 PUMP SLUG 12,88 SET/RELASE MECH PLUGS	100 Pump 1,62 sq slug. 35,	5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic 0-apr-19 Deepsea Atlantic	05:30 05:20	05:40 05:30	10 1948 10 1970	6,41 FLOW CHECK		5/11-B-12 BY1H 5/11-B-12 BY1H
					RiH slowly and tag of top plug with 5ton @ 1975,4. Set down 20ton on GTV plug pull up 10 ton 0P and set down 20 ton. No pressure change when latching on plug. Pressure up, down string with cement unit and verify plug is equalized.	
0-apr-19 Deepsea Atlantic	04:30	05:20	50 1975	12,88 SET/RELASE MECH PLUGS	Pressure up, down string with cement unit and verify plug is equalized. 100 Pull 10 ton to verify that running string is still engage. Release the GTV plug according to 35, 100 Empt yrip tanks, and start to displace well to 1,30sg Carbo-Sea above shallow GTV plug. With 35,	5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic	03:15	04:30	75 1960	5,02 DISPLACE WELL/RISER	100 Emty trip tanks, and start to displace well to 1,30sg Carbo-Sea above shallow GTV plug. With 35, Connect to top drive and record up/down weight 146/112 ton. FRT 10 RPM 9NNm.	5/11-B-12 BY1H
3-apr-19 Deepsea Atlantic	03:00	03:15	15 1960	6,07 RIH CH Reduced speed	100 RIH and comp. through Tie Back to 1960m. 35,	5/11-B-12 BY1H
3-apr-19 Deepsea Atlantic	02:00	03:00	60 1948	6 RIH CH	100 RIH with GTV retrieve assy on 5 7/8 DP from 500m to 1948m. 35	5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic 0-apr-19 Deepsea Atlantic	01:45	02:00	15 500 5 490	6,07 RIH CH Reduced speed 6 RIH CH	100 P/U on sng DP and RiH with GTV retrieve assy on 5 7/8DP from 390m to 490m 35,	5/11-B-12 BY1H 5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic	01:30	01:40	10 390	6,74 COMPENSATE THROUGH BOP	100 Compensated with GTV retrieve assy from 365m to 390m inside BOP 35,	5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic 0-apr-19 Deepsea Atlantic	00:45	01:30	45 365 20 15	6,82 RIH with BHA 6,1 MAKE UP BHA		5/11-B-12 BY1H 5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic	00:25	00:25	15 0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Preiobmeeting prior to RIH with GTV Retrievall assy 35	5/11-B-12 BY1H
0-apr-19 Deepsea Atlantic	00:00	00:10	10 0	6,11 LAY DOWN BHA	100 Rack back jet sub stand 35	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	23:50 23:20	00:00 23:50	10 38 30 50	6,11 LAY DOWN BHA 6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with MUT on 5 7/8" DP, reduced speed, from 383m to 50m. 35	5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	23:10	23:20	10 383	12 13 SEAL ASSY / WEAR RUSHING	100 Set down WB @ 383m, according to Aker rep. Pull free with 10 OP.	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	22:50 22:15	23:10 22:50	20 383 35 50	6,75 TRIPPING RISER WITH FULL BORE TOOLS 6,1 MAKE UP BHA		5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	22:00	22:15	15 0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to P/U MUT 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	21:15	22:00	45 0	12,13 SEAL ASSY / WEAR BUSHING	Pressure test 9 5/8" x 10 3/4" tieback against BOP shear ram and GTV plug. Pressure up	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	21:00	21:15	15 0	6.11 LAY DOWN BHA	100 P/U double 5.7/8" HWDP and rack back in derrick. L/D Hanger running tool in RCWM. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	20:10	21:00	50 26	6,11 LAY DOWN BHA	100 POOH with STT on 5 7/8" HWOP from 383m to 26m. 35. Set seal assy according to Aker. Rotate string 9,5 turns CW torque build up to 2,2KnM.	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	19:20	20:10	50 1956	12,13 SEAL ASSY / WEAR BUSHING	Pressure up quikly down choke line w/300bar volumed pumped 87liter, bleed back 85liter. 100 Pull ST-MPT free according to Aker rep. 35,	5/11-B-12 BY1H
					Sat down 15tons landing string weight og ST-MPT.Marked drillstring. Wash for 15 min	
19-apr-19 Deepsea Atlantic	18:45	19:20	35 1956	12,13 SEAL ASSY / WEAR BUSHING	Recorded Up weight 156 has and Down weight 156 has fine Established pump rate 2001pm/4bar. Land Hanger in WH according to BH instructions. Enter speeul, pressure build up to 8 bar & USS1.5m Closed UAP and pressure tested seal integrity 71/6/bar down DP and Seback. Bled off pressure and pressure tested seal integrity 71/6/bar annotic side from ont unit down	5/11-B-12 BY1H
19-apr-19 Deepsea Atlantic	17:30	18:45	75 1956	12,31 SETTING OF LINERHANGER	choke line. 100 Bled down pressure and opend AP. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	16:30	17:30	60 1936	12,31 SETTING OF LINERHANGER 12,16 RUN LINER ON LANDING STRING IN CSG	100 RIH with 10 3/4" x 9 5/8" tieback on 5 7/8" HWDP. 35	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	16:00	16:30	30 1585	6,3 P/U DRILLSTRING	100 L/D 1 5 7/8"hwdp pup and P/U 1 sngl 5 7/8" DP, due to spaceout, DP in BOP. 35, P/U and M/U casing hanger. Removed protection on same and Aker inspect Hanger before	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	15:30	16:00	30 1585	12,9 PICK UP AND MAKE UP CASING HANGER	100 RH. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	15:25 15:10	15:30 15:25	5 1561 15 1561	12,12 RIG DOWN CASING/LINER EQUIPMENT 6,33 CHANGE HANDLING EQUIPMENT	100 Changed BX 3 to BX 4. 35	5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	14:15	15:10	55 1561	6,3 P/U DRILLSTRING	RIH with 1 std 10 3/4" tieback P/U APRS from catwalk Checked treads, clean and dope	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	13:05	14:15	70 1473	6,33 CHANGE HANDLING EQUIPMENT	P/U 9 5/8" csg pup from catwalk. Changed inserts in elevator to 10 3/4" csg. RIH with XO 100 from derrick. Removed 9 5/8" FMS and installed 10 3/4" slips in rotary 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	12:00	13:05	65 1446	12 RUN CASING IN CASED HOLE	100 Continued RiH with 9 5/8" Tie back from derrick F/855m T/1446m MD.	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	11:20	12:00	40 855	12,25 RUN CSG IN CH (REST SPEED)	100 Continued RIH with 9 5/8" Tie back from derrick T/855m MD.	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	11:10 10:50	11:20 11:10	10 619 20 471	6,33 CHANGE HANDLING EQUIPMENT 6,04 PUMP SLUG	100 Changed tong inserts. 35, 100 Pumped 10m ³ 1,2sg brine due to backflow in string. 35,	5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	10:00	10:50	50 471	12,25 RUN CSG IN CH (REST SPEED)	100 RIH with 9 5/8" Tie back from 13m to 471m MD. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	09:30	10:00	30 13	12,13 SEAL ASSY / WEAR BUSHING	100 Transfered seal stem from Aux to Main. BH inspect before RIH. 35, 100 Prejob before RIH with Tie Back. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	09:15 09:10	09:30 09:15	15 0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 12,11 RIG UP CASING/LINER EQUIPMENT		5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	08:55	09:10	15 0	6.33 CHANGE HANDLING EQUIPMENT	100 Changed to BX-4 elevator. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	08:20 08:05	08:55	35 0 15 0	38,01 CLEAN AND CLEAR RIGFLOOR 25.3 PREJORMEETING - BRIEF/DEBRIEF		5/11-B-12 BY1H 5/11-B-12 BY1H
19-apr-19 Deepsea Atlantic	07:45	08:05	20 0	6.11 LAY DOWN BHA		5/11-B-12 BY1H
19-apr-19 Deepsea Atlantic	07:20	07:45	25 58	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with 14" WB on 5 7/8" DP. 35	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	07:00	07:20	20 365	5,06 JET AROUND WELLHEAD	100 Jet WH with 2300 lpm 17 bar. 35, Recorded Up/Dn weight 73/73 ton. Activated landingmode and land 13 3/8" MUT in WH	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	06:30	07:00	30 389	6,23 ENGAGE TOP DRIVE AND LAND TOOLS	100 @383m. Correlated for tide. Sat down 10 ton. Realesed wear bushing with 31 ton OP. 35.	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	06:00	06:30	30 365	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 RIH from 50m to 365m with Aker Jet sub and MUT. 35,	5/11-B-12 BY1H
19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	05:45	06:00 05:45	15 50 15 0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF		5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	05:15	05:30	15 0	25,22 DROP's Inspection	100 Drops check grease topdrive. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	05:00	05:15	15 0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear drill floor. 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	04:45 04:30	05:00 04:45	15 0 15 24	6,11 LAY DOWN BHA 6,33 CHANGE HANDLING EQUIPMENT	100 L/D one 5 7/8" HWDP singel/running tool GTV plug and scrape assy in RCWM. 35, 100 Remove wiper in rotary. 35	5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	03:40	04:30	50 24	6,11 LAY DOWN BHA	100 POOH to with running tool on 5 7/8" HWDP from 394m to 24m. 35	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	03:25	03:40	15 394	6,01 POOH CH	100 POOH to with running tool on 5 7/8" DP from 798m to 394m 35,	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	03:15	03:25	10 798 50 798	6,41 FLOW CHECK 6.01 POOH CH	100 Flowcheck on TT. Well static. 35, 100 POOH to with running tool on 5 7/8" DP from 1968m to 798m 35,	5/11-B-12 BY1H 5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic 9-apr-19 Deepsea Atlantic	02:15	02:25 02:15	10 1945 15 1968	6,11 LAY DOWN BHA 6,41 FLOW CHECK	100 L/D one 5 7/8" DP singel in RCWM. 35, 100 Flowcheck on TT. Well static. 35,	5/11-B-12 BY1H 5/11-B-12 BY1H
					Emty TT and start to displace K/C lines to 1.10 sg NaCl brine. Pmmp 5 m3 basolle 1500lpm/21bar, and 10 m3 Hi visc pill 2000lpm/36bar. Lline up and displaced the well to 1.10 sg NaCl brine act to displacement plan. Pump rate	
29-apr-19 Deepsea Atlantic	00:15	02:00	105 1968	5,02 DISPLACE WELL/RISER	100 4500 Jpm. 35, Released GTV RT, turned to (CCW) left, SkNim 2 1/2 left hand turn to the string and lock the	5/11-B-12 BY1H
9-apr-19 Deepsea Atlantic	00:00	00:15	15 1983	12,88 SET/RELASE MECH PLUGS	100 torque in the string. 35, Released GTV plug, turned to (CCW) left, 5kNm 2 1/2 left hand turn to the string and lock the	5/11-B-12 BY1H
8-apr-19 Deepsea Atlantic	23:50	00:00	10 1983	12,88 SET/RELASE MECH PLUGS	100 torque in the string. 35 Pressure test GTV to 20/280 bar 5/10 min. Pumped 1722liter, get 1704liter retur.	5/11-B-12 BY1H
8-apr-19 Deepsea Atlantic	23:10	23:50	40 1983	15 PRESS.TESTING OF CSG UNDER BOP TEST	100 Meanwhile hold prejobmeeting prior to displace well. 35,	5/11-B-12 BY1H
	22:30	23:10	40 1983	12,88 SET/RELASE MECH PLUGS	Set 9 7/8" GTV plug according to Baker rep. Set plug @ 1977,3m bottom plug. Bit depth @ 100 1982,7m 35,	5/11-B-12 BY1H
B-apr-19 Deepsea Atlantic	21:10	22:30	80 1983	6,08 POOH CH reduced speed	100 POOH with 9 5/8" GTV plug from 2978m to 1983m with use of Mud Bucked. 35,	5/11-B-12 BY1H
8-apr-19 Deepsea Atlantic		21:10	70 2978	6,08 POOH CH reduced speed	100 POOH with 9 5/8" GTV plug from 3513m to 2978m 35, 100 Flow checked well, well stable. Meanwhile installed wiper i rotary. 35,	5/11-B-12 BY1H 5/11-B-12 BY1H
8-apr-19 Deepsea Atlantic 8-apr-19 Deepsea Atlantic	20:00			6 A1 ELOW CHECK		3) 11-0-12 01111
8-apr-19 Deepsea Atlantic 8-apr-19 Deepsea Atlantic 8-apr-19 Deepsea Atlantic 8-apr-19 Deepsea Atlantic	19:45	20:00	15 3513	6,41 FLOW CHECK	Attemptedtor release plug with right hand rotationshile and remaining 2-3ton OP and max 22kkm. NIGGO. Worked torque down while pulling UP/Down. NOGO Go down to neutral weight 155 ton H and 23 klm and rotated 34 CW, Walt 10 min for	
8-apr-19 Deepsea Atlantic 8-apr-19 Deepsea Atlantic 8-apr-19 Deepsea Atlantic 8-apr-19 Deepsea Atlantic		20:00 19:45		6.41 FLOW CHECK 12.88 SET/RELASE MECH PLUGS 15 PRESS, TESTING OF CSG UNDER BOP TEST	Attempeted to risease play with right but and rotationable and remaining 2-3ten OP and max 22Mm. HOGG. Worked torque down while pulling (W) Down. HOGG. Go down to necessity sets \$150 mH. and \$150 mm and cotated \$1 CW, Wait 10 min for \$100 packer element to retrack. Play resissand. Closed opper annulus representatived \$5 ft ¹⁰⁰ from to 20/2600ar for \$7,00min. Bell down present (700Mm. Bell of the present (700Mm.) and for the present (700Mm.) 100 Mod of present (700Mm.)	5/11-B-12 BY1H 5/11-B-12 BY1H
8-apr-19 Deepsea Atlantic	19:45 17:45 16:25	19:45 17:45 16:25	15 3513 120 3518 80 3419 25 3519	12,88 SET/RELASE MICH PLUGS 15 PRESS.TESTING OF CGG UNDER BOP TEST 12.88 SET/RELASE MICH PLUGS	Attemption prises play with right but and rotationship and remaining 2-3 on OP and max 230m. NOOL 230m. NOOL Go down to morari weight 155 to NH and 23 Minn and created the 24 CV, Wast to min for 100 patter element to rotation. Play greated, Closed upon annutur and presumentation 5 Mil Timer to 20/2/50bur for 5/2/Dmin. But down prosum. 250m. 25	5/11-B-12 BY1H 5/11-B-12 BY1H
8-apr-19 Deepsea Atlantic	19:45 17:45 16:25 16:00 14:00 13:50	19:45 17:45 16:25 16:00 14:00	15 3513 120 3518 80 3419 25 3519 120 3507 10 1997	12,88 SET/RELASE MECH PLUGS 15 PREST, TESTING OF COG LANDER BOP TEST 12,88 SET/RELASE MECH PLUGS 6,07 Bit CH Reduced Speed	Attemption crises play with right hard cristonish and remaining 2-30x OF and max. Worker foruse down the pulling (IP/Down And Cristonish and Installance) 2-30x OF and max. Worker foruse down hard pulling (IP/Down And Cristonish 2-30x OF And Crist	5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H
8-apr-19 Deepsea Atlanntic	19:45 17:45 16:25 16:00 14:00 13:50 12:15	19:45 17:45 16:25 16:00 14:00 13:50	15 3513 120 3518 80 3419 25 3519 120 3507 10 1997 95 1980	12.88 SET/RELASE MECH PLUGS 15 PRESS, TESTING OF CSG UNDER BOP TEST 12.88 SET/RELASE MECH PLUGS 6.07 BHI CH Nobode (speed 1.5 3 PAR MILTIME)	Attempeted to risease play with right that and rotationable and immaning 2-3 and not a 23 them. NOCIO. 23 them. NOCIO. Go down to meatral weight 155 to the 1 and 23 lifes and created the 24 CV, Wast to min for 100 patter element to restart. Play greated, Closed upon annutur and presumentated 5 sft. Time to 20/2/6 close for 5/10 min. Bits down presum. 120 min for 100 min fo	5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H
Bagn-19 Deepsea Atlantic	19:45 17:45 16:25 16:00 14:00 13:50	19:45 17:45 16:25 16:00 14:00	15 3513 120 3518 80 3419 25 3519 120 3507 10 1997	13.88 SET/RELASE MECH PLUSS 15 PRESS TESTING OF CUS UNDER BOP TEST 12.88 SET/RELASE MECH PLUSS 6.27 BROF Induced speed 6.37 BLO Industriance 6.37 COMPANY TO THE COMPA	Attempletion crises play with right fact and restreamble and remaining 2-30x OF and max. Worker's trape at town the pulling \$100 town 1 Am and 23 Mem and restace \$100 town 1 Am and 25 Mem and restace \$100 town 1 Am and 25 Mem and restace \$100 town 1 Am and 25 Mem	5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H
- Bagn 19 Deepsea Atlantic	19:45 17:45 16:25 16:00 14:00 12:15 12:10 12:00 11:40	19:45 17:45 16:25 16:00 14:00 13:50 12:15 12:10 12:00	15 3513 120 3518 80 3419 25 3519 120 3507 10 1997 95 1989 5 394 10 357 20 246	12,88 SET/RELASE MECH PLUGS 15 PRESS, TESTING OF CSG UNDER BOP TEST 12.88 SET/RELASE MECH PLUGS 14.67 BIRCH FROMEN STATES 14.79 ROSE FROMEN STATES 14.79 ROSE FROMEN STATES 14.70 COMPRESS, TEMPORES 14.70 COMPRESS, TEMPORES 14.70 COMPRESS, TEMPORES 14.70 FROMEN STATES 14.70 FROMEN STATES 14.70 FROMEN STATES 14.70 FROMEN STATES 15.70	Attempted on cisses play with right but and rotationshie and managing 2-3 on OP and max 200m. NODO. 200m. NODO. Get down to neutral weight 555 to Mr. and 23 Mine and created 54 CV, Wast to min for 500 pattern demonstrate or TAM. Progressand. Closed upon annual and pressurestand 5 Mill final or 500 pattern for 5/20 min. State of the common st	5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H
Sagri 3 Deppas Atlantic Sagri 3 Deppas Atlantic	19:45 17:45 16:25 16:00 14:00 12:15 12:10 12:10 11:40 11:25	19:45 17:45 16:25 16:00 14:00 13:50 12:15 12:10 12:00 11:40	15 3513 120 3518 80 3419 25 3519 120 3507 120 3507	12,88 ST/RELASE MECH PLUSS 15 PRESS.TISTING OF CSG LABOR BOP TEST 12,88 ST/RELASE MECH PLUSS 6,07 Ring to Neckode general 6,407 Ring to Neckode general	Attempedant crises pile, with right has directionalle and restriction and restrictions of 2-30x OF and max. Worked strong all covering being (\$470 piles in \$4.000 piles (\$470 piles in \$4.000 piles in \$4.00	5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H 5/11-8-12 8Y1H
- Bayes Affantic Bayes 19 Deepsea Affantic	19:45 17:45 16:25 16:00 14:00 12:15 12:10 12:00 11:40	19:45 17:45 16:25 16:00 14:00 13:50 12:15 12:10 12:00	15 3513 120 3518 80 3419 25 3519 120 3507 10 1997 95 1989 5 394 10 357 20 246	12,88 SET/RELASE MECH PLUGS 15 PRESS, TESTING OF CSG UNDER BOP TEST 12.88 SET/RELASE MECH PLUGS 14.67 BIRCH FROMEN STATES 14.79 ROSE FROMEN STATES 14.79 ROSE FROMEN STATES 14.70 COMPRESS, TEMPORES 14.70 COMPRESS, TEMPORES 14.70 COMPRESS, TEMPORES 14.70 FROMEN STATES 14.70 FROMEN STATES 14.70 FROMEN STATES 14.70 FROMEN STATES 15.70	Attempedant crises pile, with right hand of notationable and measuring 2-30x OF and max. Worked strong all covering being (SF) Down N. Hand 2-3 Mins and cristate 6-3 Min (SF). So good and with a measuring weight 5.5 to the 1, and 2.3 Mins and cristate 6-3 Mins (SF). So good and the strong of	5/11-8-12 8Y1H
-Bay-13 Desposa Affantic Bay-13 Desposa Affantic	19:45 17:45 16:25 16:00 14:00 13:50 12:15 12:10 12:00 11:40 11:25 11:15 11:00 10:30	19:45 17:45 16:25 16:00 14:00 13:50 12:15 12:10 12:00 11:40 11:25 11:15 11:10	15 3513 120 3518 80 3419 25 3519 10 1997 90 1999 5 1994 10 357 20 246 15 0 10 0	13.88 SET/RELASE MECH PLUSS 15 PRESS TESTING OF CUS LINGUE BOD TEST 12.88 SET/RELASE MECH PLUSS 6.27 BID FOI Hebode I good 6.37 PLUS TESTING OF CUS 6.37 CONTROL THE CONTROL THE CONTROL 6.37 CONTROL THE CONTROL THE CONTROL 6.37 CONTROL THE CONTROL 6.38 BIT WITH BUT 6.31 CONTROL THE CONTROL 6.31 BIT WITH BUT 6.31 CONTROL THE CONTROL 6.31 BIT WITH BUT 6.31 MINE BUT 6.32 MINE BUT 6.33 MINE BUT 6.34 MINE BUT 6.34 MINE BUT 6.35 MINE BUT 6.	Attempletion crises pile yellin right North and restreamble and remaining 2-3 size OP and max VIV and the Control State of the Control	5/11-8-12 8Y1H 5/11-8-12 8Y1H
- Bag-13 Deppas Affentic Bag-13 Deppas Affentic	19:45 17:45 16:25 16:00 13:50 12:15 12:10 12:20 11:40 11:25 11:15 11:00 10:30 10:00	19:45 17:45 16:25 16:00 14:00 11:50 12:15 12:10 12:10 11:40 11:25 11:15 11:00 10:30	150 3513 120 3518 80 3419 25 3519 25 3519 120 3507 10 1997 50 100 5 3 307 10 1997 1	12.88 ST/REASE MECH RUGS 15 PRESS TESTING OF CSU UNDER BOP TEST 12.88 ST/REASE MECH RUGS 4.07 Bits of Induced (pixel) 5.1 Bits Bits Bits 5.1 Bits Bits Bits 5.1 BITS (PIXEL) 5.1 PRESS (PIXEL) 5.2 PRESS (PIXEL) 5.3 PRESS (PIXEL) 5.4 RESS (PIXEL) 5.5 RESS (PIXEL) 5.6 RESS (PIXEL) 5.7 PRESS (PIXEL) 5.8 RESS (PIXEL) 5.8 RESS (PIXEL)	Attemption crises pile yelling file from the control and managening 2-30x OF and max. Worker's traves do vow the pile file (30% both and cristation) and of cristation 2-30x OF and max. Worker's force do vow the pile (15% both 14 and 23 Mbn and cristation) and of 50% both and cristation of	5/11.8-12 8Y1H
- Bag-13 Despara Affantic Bag-13 Despara Affantic	19:45 16:25 16:00 14:00 13:50 12:15 12:10 12:00 11:25 11:15 11:00 10:30 10:00 09:45 09:45	19.45 17.45 16.25 16.00 18.00	15 3513 120 3518 80 3419 120 3507 120 3507 120 3507 120 3507 120 300 120 300	12.88 ST/RELASE MICH PLUSS 15 PRESS TESTING OF CUS UNDER BOP TEST 12.88 ST/RELASE MECH PLUSS 4.07 RIFO II REBOOK (GROOT 5.37 ACCEPTANCES THROUGH (GROOT 6.37 ACCEPTANCES THROUGH (GROOT 6.37 ACCEPTANCES THROUGH (GRO	Attempletion prises pile yellin gille North and restrenible and remaining 2-3 size OP and max. Worker foreign develope pile (195 Store N. 1 and 23 Men. and restrate 34 CVV, Wast 10 min for 100 pacter elements froster). Pile girle (195 Store N. 1 and 23 Men. and restrate 34 CVV, Wast 10 min for 100 pacter elements froster). Pile girle (195 Store N. 1 and 23 Men. and restrate 34 CVV, Wast 10 min for 100 pacter elements froster). Pile girle (195 Store N. 1 and 23 Men. and restrate 35 Store 1 and	5/11.8-12 8Y1H 5/11.8-12 8Y1H
ila gri 3 Despusa Affantic agri 3 Despusa Affantic agri 3 Despusa Affantic agri 3 Despusa Affantic B agri 3 Despusa Affantic B agri 3 Despusa Affantic B agri 3 Despusa Affantic agri 3 Despusa Affantic B agri 3 Despusa Affantic	19:45 17:45 16:00 14:00 13:50 12:15 12:10 12:10 11:40 11:25 11:15 11:00 10:30 10:00 09:45 09:40 09:30	19:45 17:45 16:25 16:00 16:00 16:00 16:00 17:1	150 3518 120 3518 80 1419 25 3519 10 1997 10 1997 5 190 246 15 0 0 15 0 0 5 190 0 15 0 0 15	12.88 ST/REASE MECH RUSS 15 PRESS TESTING OF CSE UNDER 80P TEST 12.88 ST/REASE MECH RUSS 16.18 FOR GREETINGS 16.19 FOR GREETINGS 16.19 FOR GREETINGS 16.20 FOR GREETINGS 16.21 CHARLEST STREETINGS 16.21 C	Attempted not passes play with right New Indirectionally and managing 2-30x OF and max. Worker's transpe down with partial policy (2010) on New Indirection (2010) of Code on the neutral resignation (2010) of Code on the Neutral Residual (2010) of Code on the State of Code on the Code on the State of Code on the State of Code on the State of Code on the Code on the State of Code on the Code on the Code on the Code on the State of Code on the Code on	5/11.8-12 8Y1H 5/11.8-12 8Y1H
Sag-13 Desposa Atlantic	19:45 16:25 16:00 14:00 13:50 12:15 12:10 12:20 11:40 11:25 11:15 11:00 10:30 10:30 10:30 10:30 10:30 09:45 09:40 09:30 08:40	19.45 17.45 16.25 16.00 19.00	15 3518 120 3518 80 3419 25 5519 130 3507 150 199 5 199 15 190	13.88 ST/RELASE MECH PLUSS 15 PRESS TISTING OF CUS INDER BOP TEST 12.88 ST/RELASE MECH PLUSS 6.07 Rest Indexed speed 6.37 PLUS INSTRUMENT SPEED 6.27 Rest Indexed speed 6.37 PLUS INSTRUMENT SPEED 6.28 Rest INDEX INDEX INDEX INDEX 6.28 Rest INDEX INDEX 6.28 Rest INDEX 6.29 Rest INDEX 6.31 DOMOGE PROCEDURE SIDE 6.31 MINIORATE SPEED 7.3 PRESSURE TIME, SPEED 8.30 COLON MORNING 6.31 LAN COUNT SPEED 6.31 COUNTRICKET TIME SPEED 6.31 COUNTRICKET TIME SPEED 6.31 COUNTRICKET TIME SPEED 6.32 COUNTRICKET TIME SPEED 6.33 COUNTRICKET TIME SPEED 6.34 COUNTRICKET TIME SPEED 6.35 COUNTRICKET TIME SPEED 6.36 COUNTRICKET TIME SPEED 6.37 COUNTRICKET TIME SPEED 6.38 COUNTRICKET TIME SPEED 6.39 COUNTRICKET TIME SPEED 6.30 COUNTRICKET 6.3	Attempletion prises pries with right to the Control of the Control	5/11-0-12 8VIH 5/11-0-12 8VIH
Jay 23 Desposa Affantic Jay 24 Desposa Affantic Jay 25 Desposa Affantic	19:45 17:45 16:25 16:00 14:00 13:50 12:15 12:10 11:40 11:25 11:00 10:30 10:30 10:30 09:45 09:40 09:30 08:40 08:25 08:10	19:45 17:45 16:35 16:00 16:00 14:00 11:50 11:50 11:40 11:25 11:15 11:00 10:30 10:30 10:40 09:40 09:40 08:40	150 3518 120 3518 80 1419 25 3519 100 3507 10 100 3507 10 100 3507 10 100 3507 10 100 3507 10 100 3507 10 100 3507 10 100 350 0 10 10 10 10 10 10 10 10 10 10 10 10 10 1	12.88 ST/REASE MECH RUSS 15 PRESS TESTING OF CSS UNDER 80P TEST 12.88 ST/REASE MECH RUSS 14.81 ST/REASE MECH RUSS 15.91 ST/REASE MECH RUSS 16.17 CONTROL THE STREET S	Attempedance risease play with right has deed restancible and restancible and restancing 2-30x OF and max. Worker's strong account partial pa	5/11-0-12 891H
- 1-20 - 120 Desposa Affantic 1-20 - 120 Desposa Affantic 1-20 Desposa Affantic	19:45 17:45 16:25 16:00 14:00 13:50 12:15 12:10 12:10 11:40 11:25 11:00 10:30 10:00 09:40 09:40 09:40 09:40 09:40 08:25	19:45 17:46 16:25 16:00 16:00 16:00 16:00 17:1	150 3518 120 3518 80 3419 25 3519 120 3507 50 100030 10 100030 10 1000 10 0 10 0 15 24 1000 15 24 1000 15 24 1000 15 24 1000 15 24 1000 15 24 1000 15 24 1000 15 24 1000 15 34 1000 15 34 1000 15 34 1000 15 34 1000 15 34 1000 15 34 1000 15 34 1000 15 34 1000 15 34 1000 15 35 1000	12.88 ST/RELASE MICH PLUSS 15 PRESS TESTING OF CUS UNDER BOP TEST 12.88 ST/RELASE MECH PLUSS 4.07 Bird N theboost igned 4.08 Bird N TESTING N THE STREET 8.09 BIRD N TESTING N THE STREET 8.00 CEAR N M CEAR M	Attempletion prises prieg with right New Indirections and relationistic 2-3 into IP and max. Worker foreign down when pulling IR 970 Provin New 1 Am 2 3 New 1 A	5/11.8-12 891H 5/11.8-12 891H 5/11.8-12 991H 5/11.8-12 991H 5/11.8-12 991H 5/11.8-12 991H 5/11.8-12 891H 5/11.8-12 891H

						Connect Top Drow on last std. Up-weight: 127 Ton. Down weight: 127 Ton. Raztation 20 69Ms 15 Miles (127 Ton. 5/10 weight w/restation: 121 Ton. 9/10 weight w/restation: 121 Ton.	
						Establish pump rate: 500 (pm/5 bar and rotation: 20 pm. Run in carefully with robots and said down 5 ton on top PBR. Tag PBR @ 1952,#3m Dress top of PBR for 1 min. Circulate with 800 (hmin) 45ars 20 RPM Run down and oxidint PBR 3 times.	
28-apr-19 Deepsea Atlantic	05:15	06:00	45 19	52 35,0:	L MILLING	100 5,2m from laser landing to first tool int	35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	04:45 04:30	05:15 04:45	30 19 15 15	36 6,0° 95 6,1	7 RIH CH Reduced speed 3 P/U DRILLSTRING	100 RIH with PBR mill assy on 5 7/8" DP. RIH with reduced speed. From 1595m to 1936m 100 P/U 2 joints white painted 5 7/8" DP from RCWM.	35/11-B-12 BY1H 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic	03:15	04:30	75 15	75 6,0	7 RIH CH Reduced speed	100 RiH with PBR mill assy on 5 7/8" DP. RiH with reduced speed. From 398m to 1575m	35/11-B-12 BY1H
28-apr-19 Deepsea Atlantic 28-apr-19 Deepsea Atlantic	03:10 02:45	03:15 03:10	5 3 25 3	55 6,01	4 COMPENSATE THROUGH BOP 7 RIH CH Reduced speed	100 Compensate while run Polish mill assy. mill through BDP/WH area. 100 RIH with PBR mill assy on 5 7/8" DP. RIH with reduced speed. From 22m to 365m	35/11-8-12 BY1H 35/11-8-12 BY1H
28-apr-19 Deepsea Atlantic 28-apr-19 Deepsea Atlantic	02:35 02:10	02:45 02:35	10	22 6,3	CHANGE HANDLING EQUIPMENT MAKE UP BHA	100 Install pipe doper and 5 7/8" auto slips. 100 P/U PBR Polish mill assy from RCWM and 1 sel 5 7/8" DP.	35/11-B-12 BY1H 35/11-B-12 BY1H
28-apr-19 Deepsea Atlantic	02:00	02:10	10	0 25,	PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to P/U BHA	35/11-B-12 BY1H
28-apr-19 Deepsea Atlantic 28-apr-19 Deepsea Atlantic	01:50 01:40	02:00 01:50	10 10	0 6,:	L CLEAN AND CLEAR RIGFLOOR L MAKE UP BHA	100 Clean and clear drill floor. 100 B/O and R/B Aker Jet sub	35/11-B-12 BY1H 35/11-B-12 BY1H
28-apr-19 Deepsea Atlantic 28-apr-19 Deepsea Atlantic	01:30 01:15	01:40 01:30		01 6,1:	POOH with BHA L LAY DOWN BHA	100 POOH with 5 7/8" HW DP BHA. from 101m to 38m 100 L/D BOPIT to deck.	35/11-8-12 BY1H 35/11-8-12 BY1H
28-apr-19 Deepsea Atlantic	00:30	01:15	45 1	20 6,7	TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with BOPIT from 383 to 120.	35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic	00:00	00:30	30 3	33 15,1:	L PRESSURE TEST BOP	Pressure test BOP according to Odfiell Drilling Sub-sea procedure/testing program. 20/300 bat 5/2 min. With blue pod. 100 Meanwhile pressure test top drive and kelly hose. 20/300 bat 5/10 min.	35/11-B-12 BY1H
						Pressure test BOP according to Odfjell Drilling Sub-sea procedure/testing program. 20/300 bar 5/10 min. With blue god.	
27-apr-19 Deepsea Atlantic	18:45 18:10	00:00 18:45			PRESSURE TEST BOP	20/300 bar 5/10 mm. With blue pod. 100 Meanwhile pressure test top drive and kelly hose. 20/300 bar 5/10 min. 100 RIH and land BOPITT in WH.	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	18:10 17:55 17:40	18:10	15 3	22 5.00	5 TRIPPING RISER WITH FULL BORE TOOLS 5 JET AROUND WELLHEAD	100 Connected TD and washed BOP/ WH area with 2300 lpm - 25 BAR.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	17:40 17:00	17:55 17:40	15 3 40 1	59 6,7! 58 6.1	5 TRIPPING RISER WITH FULL BORE TOOLS L MAKE UP BHA	100 RIH with wash stand and BOPITT on 5 7/8" DP from 168m to 369m 100 M/U and RIH with wash stand, 3x 5 7/8" HWDP stands and BOPITT.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	16:45 16:30	17:00 16:45		0 38,0:	L CLEAN AND CLEAR RIGFLOOR B PREJOBMEETING - BRIEF/DEBRIEF	100 Performed clean and clear on rigfloor 100 Performed debrief after trip out of hole	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	16:00	16:30	30	0 6,1	LAY DOWN BHA		35/11-B-12 BY1H
						POOH with 9 5/8" HRT from 400m to 15m. L/D and P/U dbl 5 7/8" DP due to space out BOP.	
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	15:50 15:35	16:00 15:50	10 15 4	15 6,0: 00 6,4:	L POOH CH L FLOW CHECK	100 Compensated 9 5/8" Hanger RT through BOP. 100 Flowchecked well with BHA below BOP.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	14:30 14:10	15:35 14:30	65 4 20 19	00 6,0:	POOH CH PUMP SLUG	100 POOH with 9 5/8" HRT from 1950m to 400m 100 Pumped 5m ³ 1,6sg slug.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	13:55	14:10	15 19	50 6.4:	L FLOW CHECK	100 Flowcheck well	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	13:30 13:10	13:55 13:25	25 19 15 19	53 6,4:	CIRCULATE AND CONDITION MUD L FLOW CHECK	100 Pumped one string volume to clean pipe. 100 Flowcheck	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	13:10 12:00	13:30 13:10	20 19 70 19	5,0:	RIG UP AND DOWN CEMENT EQUIPMENT	100 B/O cement stand & R/B i AUX. Installed spong ball in string. 100 Cirk hole clean for spacer and cement 3000 l/m-70 bar.	35/11-8-12 BY1H 35/11-8-12 BY1H
27-apr-19 Deepsea Atlantic	11:30	12:00	30 19		L CIRCULATE HOLE CLEAN	100 Cirk hole clean for spacer and cement. 3000 I/m-70 bar. Pulled up and sat down 40ton on top 9 5/8" PBR. Sat packer according to BH procedure. P/U	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	11:00	11:30	30 36		L SETTING OF LINERHANGER	100 to St DW.Close UAP.Open UAP.Pull above PBR.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	10:45 10:30	11:00 10:45	15 36 15 36	55 13,0:	B RIG UP AND DOWN CEMENT EQUIPMENT 2 PUMP CMT	100 Disconnected hoses from cmt stand. 100 Bled down pressrure according to proc. and checked for back flow.	35/11-B-12 BY1H 35/11-B-12 BY1H
						Displaced cmt with 1,30sg OBM using rigpumps 1600lpm/30bar.	
27-apr-19 Deepsea Atlantic	09:30	10:30	60 36		2 PUMP CMT	Sheared out top WP @ 1323 stks/187bar. 100 Reduced flowrate T/800lpm @ 4761stks and landed top WP after 4685stk FCP-93bar.	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	06:45 06:00	07:00 06:45	15 45		3 CHANGE HANDLING EQUIPMENT 2 DROP's Inspection	100 100 Drops inspecion on TD and Main HR. Pump 30 m3 1,20 sg light mud 1000 lpm/35 bar. Pump 27,4 m3 1,50 sg spacer at 1600 lpm.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	06:00	09:30	210 36		2 PUMP CMT	Closed linky cook and set 50 but behind. Reset Tag, and disposed for sit from of criment. Searrand to mis 60, 3 m 13, 50 m 19, passing the sale unray. Searrand to mis 60, 3 m 13, 50 m 19, passing the sale unray. Missi and unpared 55 m 13, 50 m 19, passing the sale unray. Missi and unpared 55 m 13, 50 m 19, passing that sit lart ye 800pm Displaced criments with 400 liter DVI 101 Closed to Chroma and disposed and 12 behind criment.	35/11-8-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	05:45 04:45	06:00 05:45	15 60	0 6,1:	L CLEAN AND CLEAR RIGFLOOR L LAY DOWN BHA	100 Clean and cleare driffstoor. 100 Removed radioative sources from BHA. POOH and transfer 8 1/4" BHA to Aux. 100 Projobmeeting prior to L/D radioactive sources.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	04:30	04:45	35	10 6.1:	PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to L/D radioactive sources. 100 POOH with 12 1/4" BHA from 156m to 40m on 5 7/8" HWDP. L/D jar in RCWM.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	03:40	03:55	15 1	56 6,3	8 CHANGE HANDLING EQUIPMENT	100 Removed wiper in rotary. Install jumping jack slips. Establish circulation in steps of 200 lpm flow to 1600 lpm/SS bar. Circulate 1 x OH volume 6791 stroke without rotation and with stable parameters.	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	03:40	06:00 03:40	140 36 5 1		L CIRCULATE HOLE CLEAN L LAY DOWN BHA	100 Due to gas, dicided to circulate 1 x B/U. 100 POOH with 12 1/4" BHA from 218m to 156m on 5 7/8" HWDP	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	03:25	03:35	10 2	18 6,0:	L POOH CH	100 POOH with 12 1/4" BHA from 365m to 218m. Take out 4 1/8" drift and drift sub.	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	03:20	03:25	5 3	55 6,74	COMPENSATE THROUGH BOP	100 Comp through BOP with 12 1/4" BHA Keep LH running tool in compression, 30 ton, and shear ball seat with 250 bar. Establish circulation in steps of 200 lpm flow to 1000 lpm.	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	03:15 03:10	03:40	25 36	55 12,9	RELEASE HANGER RUNNING TOOL	100 Burst rupture disc @ 120 bar.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	03:10	03:20	10 3 5 6	90 6,0:	L POOH CH 4 KICK DRILL, CHOKE DRILL	100 POOH with 12 1/4" BHA on 5 7/8" DP from 631m to 390m 100 Held kick drill with crew	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	02:55	03:05	10 6		I FLOW CHECK	100 Flow check well for 10 min, OK. Meanwhile held prejob meeting for rack back 12 1/4" BHA	35/11.B.13.BV1H
						Drop 3.14 th Peass setting ball. Pump down IH stirting ball. Chase ball with 200 (pm 14bar: Pressure start to increased after 176 STK Pressure up controlled to 140 bar. Hold pressure for 3 min Bleed of pressure to 50 bar.	
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	02:40 02:10	03:15 02:40	35 36 30 36	55 12,3	L SETTING OF LINERHANGER 3 RIG UP AND DOWN CEMENT EQUIPMENT	100 Verifyed hanger set by applying 30 ton WOB 100 Hook up cement hose and control hoses for CMT head. Perform line test 200 bar.	35/11-B-12 BY1H 35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	01:45	02:55	70 6	81 60	L POOH CH CHANGE HANDLING EQUIPMENT	100 POOH with 12 1/4" BHA on 5 7/8" DP from 1956m to 631m.	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	01:30 01:20	01:45 01:30	15 19 10 19	56 6,0	PUMP SLUG	100 Install wiper below contary and 5 7/8" HL/Epic. Dropped of driff in string. 100 Pumped off wir Wh. 1,61; pp. (gm.) Tag botton with 15 Lots, pp. (gm.) P(10 In the mixing gain weight of 4 m. Marked pipe with lazer. P(10 In the mixing gain weight of 4 m. Marked pipe with lazer. Orient window to desirate orientation 1/-18" high side Cycles COT to GPF MODE Take pressure receiping 45 500 pm. surference for bursting PIDS repture disc. 10, final window colerations 12" fings dash OC.	35/11-B-12 8Y1H 35/11-B-12 8Y1H
27-apr-19 Deepsea Atlantic 27-apr-19 Deepsea Atlantic	01:20 01:10	02:10 01:20	50 36 10 19	56 6,4:	L SETTING OF LINERHANGER L FLOW CHECK	100 Flow check well for 10 min, OK.	35/11-B-12 BY1H 35/11-B-12 BY1H
17-apr-19 Deepsea Atlantic	00:40	01:20	40 36 60 19		RIG UP AND DOWN CEMENT EQUIPMENT	100 Install cmt std and take up and down weight 255 ton and 133 ton Circulate one bottom up and take readings prior to run liner. Up and down weight 150 ton 100 and 118 ton, torque readings with 20 rpm /9 M/m and 30 rpm/11 kM/m.	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	00:00	00:10	10 19		L FLOW CHECK	100 Flow check well for 10 min, OK. Instal pup and take up and down weight see 255 ton and 133 ton. 3m stretch	35/11-B-12 BY1H
27-apr-19 Deepsea Atlantic	00:00	00:40	40 36	16 12,3	L SETTING OF LINERHANGER	100 Orient MLT window test, OK Held debrief for Rit with landing string, meanwhile filled pipe with 1,30 sg OBM	35/11-B-12 BY1H
16-apr-19 Deepsea Atlantic 16-apr-19 Deepsea Atlantic	23:45 22:40	00:00 23:45	15 36 65 36		B PREJOBMEETING - BRIEF/DEBRIEF B RUN LINER ON DP IN OH (REST SPEED)	100 Checked and tested orientation of COT with 570 Ipm. OK Cond. RH+ with 9 5/78" Liner on 5 7/8" DP landing string from 3121m to 3617m to 1 stand 100 before coment stand	35/11-B-12 BY1H 35/11-B-12 BY1H
6-apr-19 Deepsea Atlantic	22:05	22:40	35 31		PREJOBMEETING - BRIEF/DEBRIEF	Held debrief for RIH with landing string, meanwhile filled pipe with 1,30 sg OBM 100 Checked and tested orientation of COT with 570 lpm. OK	35/11-B-12 BY1H
16-apr-19 Deepsea Atlantic	21:00	22:05	65 31		B RUN LINER ON DP IN OH (REST SPEED)	100 Cont. RH with 9 5/8* Liner on 5 7/8* DP landing string from 2353m to 3121m. Held debrief for RH with landing string, meanwhile filled pipe with 1,30 sg OBM	35/11-B-12 BY1H
6-apr-19 Deepsea Atlantic	20:40	21:00	20 23	53 25,	PREJOBMEETING - BRIEF/DEBRIEF	100 Checked and tested orientation of COT with 570 lpm. OK	35/11-B-12 BY1H
26-apr-19 Deepsea Atlantic	19:15	20:40	85 25	53 12,21	B RUN LINER ON DP IN OH (REST SPEED)	Cont. RIH with 9 5/8" Liner on 5 7/8" DP landing string from 1999m to 2553m L/O and P/U 100 on double for space for hanger in BOP	35/11-B-12 BY1H
26-apr-19 Deepsea Atlantic	18:35	19:15	40 19		4 TEST MWD	Took up/down weight with 140lpm/8bar 192ton/159ton. Orient and decode COT prior to 100 exiting shoe.	35/11-B-12 BY1H
26-apr-19 Deepsea Atlantic	18:15	18:35	20 19		7 RIH CH Reduced speed	100 RIH with reduced speed with 9 5/8" liner on 5 7/8" DP. P/U and M/U hanger in co-operation with BH. Filled casing and break circulation. Took	35/11-B-12 BY1H
26-apr-19 Deepsea Atlantic	16:45	18:15	90 17		PICK UP AND MAKE UP CASING HANGER PREJOBMEETING - BRIEF/DEBRIEF	100 up/down weight 185ton/157ton 100 Projob meeting before P/U 9 5/8" Liner Hanger	35/11-B-12 BY1H
	16:30 16:05 16:00	16:45 16:30	15 16 25 16 5 16	38.0	L CLEAN AND CLEAR RIGFLOOR	100 Preyor meeting periore P/U 9 5/8" Liner Hanger 100 Clean and clear prior P/U liner henger. 100 L/D CRT to catwalk.	35/11-8-12 BY1H 35/11-8-12 BY1H 25/11-8-12 BY1H
26-apr-19 Deepsea Atlantic	16:00	16:05	5 16 130 16		RIG DOWN CASING/LINER EQUIPMENT S RUN LINER IN CASING	RIH with 9 5/8" liner from derrick.	35/11-B-12 BY1H
26-apr-19 Deepsea Atlantic 26-apr-19 Deepsea Atlantic					THUR LINEK IN CASING	100 Filled every std with 1.30sg OBM while RIH.	35/11-B-12 BY1H
26-apr-19 Deepsea Atlantic 26-apr-19 Deepsea Atlantic 26-apr-19 Deepsea Atlantic	13:50	16:00				Debrief with Haliburton and drilling crew acc. to MLT shoetrack. Meanwhile adjust Torque	
16-apr-19 Deepsea Atlantic 16-apr-19 Deepsea Atlantic 16-apr-19 Deepsea Atlantic 16-apr-19 Deepsea Atlantic	13:50 13:40 12:50	13:50 13:40	10 3	97 25,	3 PREJOBMEETING - BRIEF/DEBRIEF 5 RUN LINER IN CASING	Debrief with Hallburton and drilling crew acc. to MLT shoetrack.Meanwhile adjust Torque 100 settings on CRT. 100 RIH with 9 5/8" liner:M/U with casingtong.	35/11-B-12 BY1H 35/11-B-12 BY1H
26-apr-19 Deepsea Atlantic 26-apr-19 Deepsea Atlantic	13:40	13:50	10 3 50 3	97 25,1 97 12,1 27 6,1	PREJOBMEETING - BRIEF/DEBRIEF	Debrief with Hallburton and drilling crew acc. to MLT shoetrack. Meanwhile adjust Torque 100 settings on CRT.	35/11-B-12 BY1H

6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	09:45 09:30	10:45 09:45	60 15	62 62	6,33	DOWN TIME, OTHERS CHANGE HANDLING EQUIPMENT	0 P/U and attempted to M/U CRTi, not able to set in release position. 35/11-B-12 BY1H 100 Change Bx 3 to Bx 4. 35/11-B-12 BY1H
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	09:00	09:30 09:00	30 15	62 38	12,19	LAY DOWN CSG STANDS MAKE UP SHOETRACK	100 RIH with dobbel 9 5/8" liner with centrelizer.L/D top sngl on stand. 35/11-B-12 BY1H 100 RIH with shoe and F/C,fill same. 35/11-B-12 BY1H
-apr-19 Deepsea Atlantic	08:15	08:45	30	0	25,3	PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meetin prior M/U shoetrack with MLT equipment. 35/11-B-12 BY1H
apr-19 Deepsea Atlantic apr-19 Deepsea Atlantic	07:45 07:15	08:15 07:45	30 30	0	6,33	RIG UP CASING/LINER EQUIPMENT CHANGE HANDLING EQUIPMENT	100 Install FMS and prepare casingtong. 35/11-8-12 BY1H 100 Change from Bx 4 to Bx 3. 35/11-8-12 BY1H
apr-19 Deepsea Atlantic	07:00	07:15	15	0	25.3	PREJOBMEETING - BRIEF/DEBRIEF	100 Handover with crew. 35/11-8-12 BY1H
apr-19 Deepsea Atlantic apr-19 Deepsea Atlantic	06:30 05:45	07:00 06:30	30 45	0	25.22	CLEAN AND CLEAR RIGFLOOR DROP's Inspection	100 Clean and clear R/F 35/11-8-12 BY1H 100 Drops inspection drilling equipment. 35/11-8-12 BY1H
apr-19 Deepsea Atlantic	04:45	05:45	60	0	6,12	MWD HANDLING	100 Removed radioative sources from BHA. POOH and transfer 8 1/4" BHA to Aux. 35/11-B-12 BY1H
Sapr-19 Deepsea Atlantic	04:30 03:55	04:45 04:30	15 35	40	25,3 6.83	PREJOBMEETING - BRIEF/DEBRIEF POOH with RHA	100 Performed Prejobmeeting prior to L/D radioactive sources. 35/11-B-12 8Y1H 100 POOH with 12 1/4" BHA from 156 m to 40 m on 5 7/8" HWDP. L/D jar in RCWM. 35/11-B-12 BY1H
i-apr-19 Deepsea Atlantic i-apr-19 Deepsea Atlantic	03:40	03:55	15	156	6,33	POOH with BHA CHANGE HANDLING EQUIPMENT	100 Removed wiper in rotary. Installed jumping jack slips. 35/11-B-12 BY1H
5-apr-19 Deepsea Atlantic 5-apr-19 Deepsea Atlantic	03:35	03:40 03:35	5 10	156 218		POOH with BHA POOH with BHA	100 POOH with 12 1/4" BHA from 365 m to 218 m. Removed drift. 35/11-B-12 BY1H
i-apr-19 Deepsea Atlantic	03:20	03:25	5	365	6,74	COMPENSATE THROUGH BOP	100 Compensated through BOP with 12 1/4" BHA. 35/11-B-12 BY1H
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	03:10 03:05	03:20 03:10	10 5	390 638		POOH with BHA KICK DRILL, CHOKE DRILL	100 POOH w/ 12 1/4" BHA on 5 7/8" DP from 638m to 390 m. 35/11-8-12 BY1H 100 Performed kick drill with crew. 35/11-8-12 BY1H
							Flowchecked well for 10 min prior to pull BHA through BOP. Meanwhile held prejob meeting
6-apr-19 Deepsea Atlantic	02:55	03:05	10	638		FLOW CHECK	100 for rack back 12 1/4" BHA 35/11-B-12 BY1H
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	01:50 01:35	02:55 01:50	65 15	638 1975		PUMP AND POOH CH CHANGE HANDLING EQUIPMENT	100 POOH w/ 12 1/4" BHA on 5 7/8" DP from 1975 m to 638 m. Avg. tripping speed 1234 m/hr. 35/11-8-12 BY1H 100 Installed wiper below rotary and 5 7/8" HL/slips. Dropped 4" drift in string. 35/11-8-12 BY1H
6-apr-19 Deepsea Atlantic	01:20	01:35	15	1975	6,04	PUMP SLUG	100 Pumped 5m ³ with 1,61sg slug 35/11-B-12 BY1H
5-apr-19 Deepsea Atlantic	01:10	01:20	10	1975	6,41	FLOW CHECK	100 Flow check well.Well static. 35/11-B-12 BY1H
							Circulated w/ 4000 l/min, 187 bar, ECD 1.34 SG. Performed readings prior to run liner.
5-apr-19 Deepsea Atlantic	00:20	01:10	50	1975		CIRCULATE HOLE CLEAN	100 Up/down weight 150 / 118 ton, torque readings with 20 rpm /9 kNm and 30 rpm / 11 kNm. 35/11-B-12 BY1H
6-apr-19 Deepsea Atlantic 5-apr-19 Deepsea Atlantic	23:00	00:20	20 60	1975		FLOW CHECK PUMP AND POOH OH	100 Flowcheck well.Well static. 35/11-8-12 BY1H 100 Pump and POOH with 1000 Ipm from 2277m to 1975m, 35/11-8-12 BY1H
							Performed pressurepoints according to Baker procedure @ 3556.60m, 3512.30m, 3273.30m, 3241.30m, 2702.30m, 3273.30m, 2702.30m, Lubricated 2548.80m, 2783.30m,
S-apr-19 Deepsea Atlantic S-apr-19 Deepsea Atlantic	13:15	23:00 13:15	585 15	2277 3668		TAKE PRESSURE POINT WHILE POOH FLOW CHECK	100 with 1000 LPM - 20 BAS while POOH between pressurepoints. 35/11-8-12 BY1H 100 Flowchecked well for 15 min. Well static. 35/11-8-12 BY1H
							Continued to circulated 4x B/U with 4000 LPM -245 BAR - 160 RPM - 21 kNm TQ, Tagged TD
5-apr-19 Deepsea Atlantic 5-apr-19 Deepsea Atlantic	12:00 08:30	13:00 12:00	60 210	3668 3668		CIRCULATE HOLE CLEAN CIRCULATE HOLE CLEAN	100 @ 3669m and downlinked Ribs Off 35/11-B-12 8Y1H 100 Circulated 4x B/U with 4000 LPM -245 BAR - 160 RPM - 21 kNm TQ 35/11-B-12 BY1H
5-apr-19 Deepsea Atlantic	04:30	08:30	240	3668		DRILL ACTUAL	Drilled 12 1/4" from 3479m to 3668m MID with 4000lpm/243bar, 160RPM/15-28kNm, 10- 100 18ton WDB, take servals downlinks. See 10 % gas at 3558m 35/11-B-12 BY1H
5-apr-19 Deepsea Atlantic	04:10	04:30	20	3464		PRESSEREPOINTS WHILE DRILLING	Performed pressurepoint @ 3464,6m MD bit depth according to Baker DD. See 30 ton OP 100 when POOH after PP 35/11-8-12 BY1H
							Drilled 12 1/4" from 3395,6m to 3479m MD with 4000lpm/238bar, 160RPM/15-25kNm, 10-
5-apr-19 Deepsea Atlantic 5-apr-19 Deepsea Atlantic	02:15	04:10 02:15	115 15	3479 3396	2 2 6	DRILL ACTUAL PRESSEREPOINTS WHILE DRILLING	100 18ton WOB 35/11-8-12 BY1H 100 Performed pressurepoint @ 3395,6m MD bit depth according to Baker DD. 35/11-8-12 BY1H
							P/U of bottom and circulated with 3000 lpm and 80 rpm, meanwhile discuss pressure point
5-apr-19 Deepsea Atlantic	01:35	02:00	25	3405	5,01	CIRCULATE HOLE CLEAN	100 depth with town. 35/11-8-12 8Y1H Drilled 12 1/4" from 3356m to 3406m MD with 4000lpm/230bar. 1608PM/15-25kNm. 10-
5-apr-19 Deepsea Atlantic	00:00	01:35		3406		DRILL ACTUAL	100 18ton WOB. 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic	23:40	00:00	20	3356	5,01	CIRCULATE HOLE CLEAN	100 Resiopcate string and circulate due to 20% gas. With 2360lpm/93bar 115RPM. 35/11-B-12 BY1H Drilled 12 1/4" from 3340m to 3356m MD with 4000lpm/230bar, 160RPM/15-25kNm, 10-
4-apr-19 Deepsea Atlantic	23:10	23:40		3356		DRILL ACTUAL	100 18ton WOB 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic	22:40	23:10	30	3321	2,6	PRESSEREPOINTS WHILE DRILLING	100 Performed pressurepoint @ 3320,7m MD bit depth according to Baker DD. 35/11-B-12 BY1H Drilled 12 1/4" from 3192m to 3340m MD with 4000lpm/230bar, 160RPM/15-25kNm, 10-
4-apr-19 Deepsea Atlantic	19:45	22:40	175	3340	2	DRILL ACTUAL	100 18ton WOB 35/11-B-12 BY1H
							SCR @ 3192m MD MP1 20spm/11bar 30spm/14bar 40spm/17bar
4-apr-19 Deepsea Atlantic	19:30	19:45	15	3192	2,9	SCR	100 MP4 20spm/11bar 30spm/15bar 40spm/18bar 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic	12:00	19:30		3192		DRILL ACTUAL	Drilled 12 1/4" from 2849m to 3192m MD with 4000lpm/230bar, 160RPM/15-25kNm, 10- 100 18ton WDB 35/11-8-12 BY1H
4-apr-19 Deepsea Atlantic	11:45	12:00	15	2849		DRILL ACTUAL	100 Drilled 12 1/4 hole from 2848 m to 2849 m. 35/11-8-12 8Y1H Washed down from 2812 m with 60 rom and 4000 lom/230 bar. Sent downlink while
4-apr-19 Deepsea Atlantic	11:10	11:45	35	2848		WASH DOWN	Washed down from 2812 m with 60 rpm and 4000 lpm/230 bar. Sent downlink while 100 washing down. 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic	10:45	11:10	25	2812	5	CIRCULATE AND CONDITION MUD	100 Filled pipe and broke circulation to 4000 lpm rotated pipe slowly. Took survey. 35/11-8-12 BY1H
4-apr-19 Deepsea Atlantic	10:30	10:45	15	2812	6,1	MAKE UP BHA	100 Installed drilling stand. 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic	08:45	10:30	105	2812	6,5	RIH OH	RIH OH from 1999 m to 2812 m. Compensated through 14" shoe. Took some weight several 100 places while RIH, pulled up and checked string free, slided passed with 5-10 ton WOB. 35/11-B-12 BY1H
							100 Prejobmeeting prior to Run into open hole. Meanwhile filled pipe and emptied TTs. 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic 4-apr-19 Deepsea Atlantic	08:15 07:30	08:45 08:15	30 45	1999 1999	25,3	PREJOBMEETING - BRIEF/DEBRIEF RIH CH	100 Prejobmeeting prior to Run into open hole. Meanwhile filled pipe and emptied TTs. 35/11-8-12 BY1H 100 RIH with 12 1/4" BHA on 5 7/8" DP from 994 m to 1999 m. 35/11-8-12 BY1H
							Prejobmeeting prior to RIH and handover with oncoming crew. Meanwhile filled pipe and
4-apr-19 Deepsea Atlantic 4-apr-19 Deepsea Atlantic	07:00 06:45	07:30 07:00	30 15	994 994		PREJOBMEETING - BRIEF/DEBRIEF RIH CH	100 emptied TTs. 35/11-8-12 BY1H
4-apr-19 Deepsea Atlantic 4-apr-19 Deepsea Atlantic	06:45 06:30 06:00	06:45	15 15	994 615	15,04	RIH CH KICK DRILL, CHOKE DRILL RIH CH	100 Performed kick drill with nightshift. Held debrief. 35/11-8-12 BY1H
4-apr-19 Deepsea Atlantic 4-apr-19 Deepsea Atlantic	05:10	06:30 06:00	30 50	615 237	6,82	RIH with BHA	100 RIH with 3 stands 5 5/8" HWDP, 1x Jar and 2 stands 5 7/8" HWDP. 35/11-8-12 BY1H
4-apr-19 Deepsea Atlantic	04:50	05:10	20	15		MWD HANDLING	100 Installed radioactive sources in BHA. 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic 4-apr-19 Deepsea Atlantic	04:10	04:50 04:10	40 130	0	6,12	LAY DOWN BHA MWD HANDLING	100 Replaced 12.1/4" bit. Grading of used bit: 2-3-LT-S-X-I-BT-PR. 35/11-B-12.BY1H 100 Removed radioactive sources and downloaded data. Meanwhile 35/11-B-12.BY1H
4-apr-19 Deepsea Atlantic 4-apr-19 Deepsea Atlantic	01:50 01:30	02:00 01:50	10	0	6,11	LAY DOWN BHA POOH with BHA	100 POOH with 12 1/4" BHA. 35/11-8-12 BY1H 100 POOH with 12 1/4" BHA on 5 7/8" HWDP from 237m to 37m MD. 35/11-8-12 BY1H
4-apr-19 Deepsea Atlantic	01:25	01:30	20 5	237	6,01	POOH CH	100 POOH with 12 1/4" BHA on 5 7/8"DP from 388m to 237m MD. 35/11.8.12 8Y1H
4-apr-19 Deepsea Atlantic 4-apr-19 Deepsea Atlantic	01:20 01:10	01:25 01:20	5 10	351 388		COMPENSATE THROUGH BOP POOH CH	100 Compansated through BDP with 12 1/4" BHA 35/11-8-12 BY1H 100 POOH with 12 1/4" BHA on 5 7/8"DP from 653m to 388m MD. 35/11-8-12 BY1H
4-anr-19 Deensea Atlantic	00:05	01:10	65	653	25,22	DROP's Inspection	100 Drops inspection on TD and HR in Main WC. 35/11-B-12 BY1H
4-apr-19 Deepsea Atlantic	00:00 23:50	00:05	5 10	653 653		FLOW CHECK FLOW CHECK	100 Flow checked well against TT. Well statick. 35/11-8-12 BY1H 100 Flow checked well against TT 35/11-8-12 BY1H
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	22:50	23:50	60	653	6,01	POOH CH	100 BOOK with 12 1 / /* BUA on 5 7 / 9* DB 5 / 1979m T / 552m MD 25 / 11 B 12 BY 10
3-apr-19 Deepsea Atlantic	22:30	22:50	20	1979		FLOW CHECK	100 Flow checked well against TT. Well statick. 35/11-8-12 8Y1H POOH with 12 1/4" BHA on 5 7/8" DP from 2650m MD to 1941m MD. Obstruction @
3-apr-19 Deepsea Atlantic	20:30	22:30	120	1979	6,6	POOH OH	
3-apr-19 Deepsea Atlantic	20:15	20:30	15	2650	6,15	CHECK OF HANDLING EQUIPMENT	100 Checked tripping equipment. Installed 2x wipers below rotary. 35/11-B-12 BY1H
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	20:00 19:20	20:15	40	2650 2650	6,6	PUMP SLUG POOH OH	100 POOH with 12 1/4" BHA on 5 7/8" DP from 2840m MD to 2643m MD. Pulled wet. 35/11-8-12 BY1H
3-apr-19 Deepsea Atlantic	19:00	19:20	20	2840	6,41	FLOW CHECK	100 Flow checked well, meanwhile installed wiper above slips. 35/11-B-12 BY1H
3-apr-19 Deepsea Atlantic	17:45	19:00	75	2840		CIRCULATE HOLE CLEAN	100 Circulated B/U prior to POOH. Sent several downlinks. Took TD survey. 35/11-8-12 BY1H Drilled 12 1/4" hole from 2802 m to 2848 m. Several stringers. Slow progress from 2844 m
3-apr-19 Deepsea Atlantic	12:00	17:45	345	2848		DRILL ACTUAL	100 to 2848 m , 1 m/h. Decided to POOH to check bit. 35/11-8-12 BY1H
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	09:40	12:00		2802 2775	2,9	DRILL ACTUAL SCR	100 Drilled 12 1/4" hole from 2775 m to 2802 m. Several stringers. 35/11-B-12 BY1H 100 Took SCR with MP1 and 4. 35/11-B-12 BY1H
3-apr-19 Deepsea Atlantic							
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	09:15 00:00	09:30 09:15	15 555	2775 2775		FLOW CHECK DRILL ACTUAL	100 Flow checked well due to active not decreasing enough while drilling. Flow checked ok. 35/11-8-12 8Y1H 100 Drilled 12 1/4" hole from 2563m to 2775 m. Several stringers. 35/11-8-12 8Y1H
2-apr-19 Deepsea Atlantic	19:20	00:00	280	2563	2	DRILL ACTUAL	Drilled 12 1/4 ¹ hole from 252.7m to 2558m MD. Several stringers. Reduced drilling parameters while drilling stringers. For parameters are floating by Spring stalled 95251m 100 MD javed string from. RH carefully and string stalled again jured free. continued drilling. 35/11-8-12 8Y1H Drilled 12 1/4* hole from 4566 m to 2521m MD. Several stringers. Reduced drilling.
							parameters while drilling stringers. For parameters see footage log. String stalled when
2-apr-19 Deepsea Atlantic	12:00	19:20	440	2521		DRILL ACTUAL	100 drilling at 2496 m. Jared string free. Continued drilling. 35/11-8-12 BY1H Drilled 12 1/4" hole from 2445 m to 2466 m. Several stringers. Drilled stringers with
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	07:45 07:10	12:00 07:45	255 35	2466 2445		DRILL ACTUAL UNDERREAMING	100 reduced parameters. For parameters see footage log. 35/11-B-12 BY1H
a-ep-19 Derpsed Abantic	07:10	U/:H5	s	440	2,1	DRIMAGE	100 Pulled up 3 m , reamed High Dogleg with 5 m/h according to DD instruction. 35/11-8-12 8Y1H Drilled 12 1/4* hole from 2395 m to 2445 reseveral stringers. Reduced drilling parameters while drilling stringers. For parameters see footage (e.g. String stalled out @ 2433m.
2-apr-19 Deepsea Atlantic	00:00	07:10		2445		DRILL ACTUAL	100 Activated jar and pulled string free. 35/11-8-12 BY1H Drilled 12 1/4* hole from 2375 m to 2395 m with 4000 ipm/200 bar and 140 rpm. Various WOB 3-15 ton. Much stringers: Reduced rpm to 60-100 and flow to 3000 ipm white drilling
I-apr-19 Deepsea Atlantic	14:50	00:00	550	2395	2	DRILL ACTUAL	100 stringers. 35/11-8-12 8Y1H Stuck when drilling at 2375 m. Jared string free. Attempted to go back on bottom and
1-apr-19 Deepsea Atlantic	14:30	14:50	20	2375	21,01	STUCK WITH DRILLSTRING	Stock when driling at 2375 m. Jarea string free. Attempted to go back on bottom and 100 continue drilling. String stock again. Jared string free. Continued drilling. 35/11-8-12 8Y1H Drilled 12 1/4* hole from 2355 m to 2375 m with 4000 lpm/200 bar and 140 rpm. Various
							WOB 3-15 ton. Much stringers. Reduced rpm to 60-100 and flow to 3000 lpm while drilling
1-apr-19 Deepsea Atlantic	12:00	14:30	150	2375	2	DRILL ACTUAL	100 stringers. 35/11-B-12 BY1H
1-apr-19 Deepsea Atlantic	07:00	12:00	300	2355	2	DRILL ACTUAL	Drilled 12 1/4" hole from 2320 m to 2355 m with 4000 ipm/200 bar and 140 rpm. Various 100 WOB 3-14 ton. Reduced rpm to 60-100 and flow to 3000 ipm white drilling stringers. 35/11-8-12 BY1H Drilled 12 1/4" hole 1/2310m (7)230m M but the parameters 4000(pm/210bar, 140pm/12-2.
							30kNm, max10ton WOB and limited ROP 75m/hrs. String stalled and pipe stuck 2 times,
1-apr-19 Deepsea Atlantic	06:10	07:00	50			DRILL ACTUAL	100 jared free pipe. 35/11-8-12 BY1H String stalled out, not able to free pipe with rotation and 30ton overpull. Jared string free
	05:55	06:10	15	2310	21,01	STUCK WITH DRILLSTRING	100 with 200ton hookload, string free at first attempt. 35/11-8-12 8Y1H
1-apr-19 Deepsea Atlantic							
							Drilled 12 1/4" hole F/2057m T/2310m MD with parametres 4000lpm/202bar, 150rpm/12-
-apr-19 Deepsea Atlantic	00.00	05-57	200	2210	-	DONE ACTUAL	30kNm, max18ton WOB and limited ROP 75m/hrs. Stringer @ 2292m MD reduced to 60
1-apr-19 Deepsea Atlantic	00:00	05:55		2310		DRILL ACTUAL	30kMm, marL8ton WOB and limited ROP 75m/hrs. Stringer @ 292m MD reduced to 60 100 RPM and various WOB settings. String stalled out several times during drilling in stringers. 35/11-8-12 8Y1H RIH back to bottom with flow and rotation started to drill 12.1/4" hole with 608PM/J44Mm
I-apr-19 Deepsea Atlantic	00:00 22:10 20:00	05:55 00:00 22:10	110	2310 2057 1994	2	DRILL ACTUAL DRILL ACTUAL LEAK-OFF / FITTEST	30kNm, max18ton WOB and limited ROP 75m/hrs. Stringer @ 2292m MD reduced to 60 100 RPM and various WOB settings. String stalled out several times during drilling in stringers. 35/11-8-12 8Y1H

20-apr-19 Deepsea Atlantic 20-apr-19 Deepsea Atlantic	18:10 18:00	18:30 18:10	20 10	2010 1997	2 DRILL ACTUAL 2,9 SCR	100 Drilled 3 m new formation. Fulled bit into 14° shoe. 100 Tool SCR pin 3 and 4. 100 Tool SCR pin 3 and 4. 101 Drilled 2 miles of the school
20-apr-19 Deepsea Atlantic	13:25	18:00	275	2007	2,3 DRILL CEMENT	100 flow and no rotation. 35/11-B-12 BY1H
20-apr-19 Deepsea Atlantic	12:50	13:25	35	1967	6.22 WASH DOWN	Took up/down weight 147/115 ton. Washed down and tagged cement with 1000 lpm and 30 100 rpm. 35/11-8-12 BY1H
20-apr-19 Deepsea Atlantic 20-apr-19 Deepsea Atlantic	12:25 12:00	12:50 12:25	25 25	1903 1903	15,04 KICK DRILL, CHOKE DRILL 6,4 FILL PIPE	100 Close UAP and perform choke drill. Pressure up well to 20 bar. Opened UAP. 35/11-8-12 8Y1H 100 Fill pipe and empty TT. 35/11-8-12 8Y1H
20-apr-19 Deepsea Atlantic	11:45	12:00		1903	6.1 MAKE UP BHA	100 Made up drilling stand. 35/11-8-12 BY1H
20-apr-19 Deepsea Atlantic 20-apr-19 Deepsea Atlantic	11:30 11:20	11:45 11:30	15 10	1903 1675	6,32 TRIPPING WITH MANUAL EQUIPMENT 6,33 CHANGE HANDLING EQUIPMENT	100 Used manual slips while tripping last stands. 35/11-8-12 8Y1H 100 Not able to sit 5 7/8 slips. Changed to 5 7/8 manual slips. 35/11-8-12 8Y1H
20-apr-19 Deepsea Atlantic	10:45	11:20	35	1675	6 RIH CH	100 RIH from 994 m to 1675 m. 35/11-B-12 BY1H
20-apr-19 Deepsea Atlantic	10:10	10:45	35	994	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrif after 12 1/4" BHA and tripping so far. Meanwhile filled pipe and emptied TT. 35/11-8-12 BY1H
20-apr-19 Deepsea Atlantic 20-apr-19 Deepsea Atlantic	09:35 09:25	10:10 09:35	35 10	994 388	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 RIH from 388 m to 994 m. Training with new personel. 35/11-8-12 BY1H 100 Compensated through BOP. 35/11-8-12 BY1H
20-apr-19 Deepsea Atlantic	09:20	09:25	5	351	6 RIH CH	100 RIH from 237 m to 351 m. 35/11-B-12 BY1H
	07:30	09:20	110	237	6.1 MAKE UP BHA	Transferd premade 12 1/4" BHA from aux to main and RIH with same. Continued RIH on 3 100 stand 5 7/8 HWDP. P/U and M/U jar. RIH on 2 stand 5 7/8 HWDP. Made up driftsub. 35/11-8-12 8YIH
20-apr-19 Deepsea Atlantic 20-apr-19 Deepsea Atlantic	07:15	07:30	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Projobmeeting prior to RIH with 12 1/4" BHA and install radioactive sources. 35/11-B-12 BY1H
20-apr-19 Deepsea Atlantic 20-apr-19 Deepsea Atlantic	06:45 06:00	07:15 06:45	30 45	0	38,01 CLEAN AND CLEAR RIGFLOOR 11,02 RIG UP OR DOWN FOR WIRELINE	100 Cleaned and cleared drill floor. 35/11-8-12 BY1H 97 Rigged down wirdline equipment. 35/11-8-12 BY1H
20-apr-19 Deepsea Atlantic	05:45	06:00	15	100	25,3 PREJOBMEETING - BRIEF/DEBRIEF	*
20-apr-19 Deepsea Atlantic	02:15	05:45	210	0	11,01 WIRE LINE LOGGING	97 Performed CBL/USIT logg of 13 5/8" casing according to DOP DOSO 35/11-B-12 BY1H
20-apr-19 Deepsea Atlantic	00:00	02:15	135	0	13,01 WAIT ON CEMENT	Waiting on cement. Meanwhile Wireline RIH with CBL/USIT logg string. Builded 9 5/8" casing 97 in AUX. 35/11-B-12 BY1H
19-apr-19 Deepsea Atlantic	22:15	00:00	105	0	13.01 WAIT ON CEMENT	97 Waited on cmt. Meanwhile rig up for wireline and RIH with wireline to top of LC 1967m. 35/11-8-12 BY1H
19-apr-19 Deepsea Atlantic	22:00	22:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob prior to rig up wireline equipment. 35/11-8-12 8Y1H Walted on cement. Meanwhile laid down Cement stand. Built 12 1/4" BHA. General
19-apr-19 Deepsea Atlantic	14:30	22:00	450	0	13,01 WAIT ON CEMENT	97 maintenace on drilling equipment and in drilling areas. 35/11-B-12 BY1H
19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	13:30 13:15	14:30 13:30	60 15	0	38,01 CLEAN AND CLEAR RIGFLOOR 25.3 PREIORMETTING - BRIFF/DERRIFF	
						POOH with MUT and wash stand on 5 7/8 HWDP. Broke out and laid down MUT and racked
19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	12:10 12:00	13:15 12:10	65 10	430	6,11 LAY DOWN BHA 12,13 SEAL ASSY / WEAR BUSHING	100 back wash stand. 35/11-8-12 BY1H 100 Pulled free MUT with 5 ton overpull. 35/11-8-12 BY1H
19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	11:50 11:30	12:00 11:50	10 20	430 410	12,13 SEAL ASSY / WEAR BUSHING 5,06 JET AROUND WELLHEAD	100 Landed 14" WB according to Aker instruction. 35/11-8-12 8Y1H 100 Connected TD and washed WH with 1500 lpm/15 bar according to Aker. 35/11-8-12 8Y1H
	10:15	11:30			6.1 MAKE UP BHA	Made up wash stand, picked up and made up MUT with 14" WB and RH on 5 7/8 HWDP to 100 373 m. 35/11-8-12 BY1H
19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	10:15	11:30 10:15	75 15	373 0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting and SIA for RIH with 14" WB and MUT. 35/11-B-12 BY1H
19-apr-19 Deepsea Atlantic	08:50	10:00	70	0	6,11 LAY DOWN BHA	POOH with STT on 5 7/8 HWDP from 332 m and laid down STT to RCWM. Used mud bucket. 100 Training with new personel. 35/11-8-12 BY1H
19-apr-19 Deepsea Atlantic	08:20	08:50	30	332	5,01 CIRCULATE HOLE CLEAN 13 RIG UP AND DOWN CEMENT EQUIPMENT	100 Installed 1 spongeball in string and circulated out same 3600 lpm/45 bar. 35/11-B-12 BY1H
19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	08:00	08:20	100	2000	13. RIG UP AND DOWN CEMENT EQUIPMENT 12,13 SEAL ASSY / WEAR BUSHING	100 Bride and cament stand. Transferred came to aux. 35/18-93 EPH Set down 15/cox banding ching weight and set That down brading string, butter 2.5 sturn. EV pressure dropped, turned 1 sum to 3.5 CM. Melbroard for return before increasing pressure dropped, turned 1 sum to 3.5 CM. Melbroard for return before increasing for the contraction of the contra
19-apr-19 Deepsea Atlantic	05:50	06:20	30	2000	13 RIG UP AND DOWN CEMENT EQUIPMENT	Ventilated cmt hose and disconnected cmt hose and controll lines from cmt head. Flushed 100 cmt hose with water. 35/11-B-12 BY1H
	05:10	05:50		2000		Pressuretested casing to 300 Bar for 10 min. from cmt unit. Pumped 1285 litres. 1347 litres 100 in return. Checked for backflow. 35/11.8-12 BY1H
19-apr-19 Deepsea Atlantic	05:10	05:50	40	2000	13,2 PRESSURE TEST OF CASING	Displaced cmt with 1,34sg OBM with rig pumps acc to DOP D040. Bottom wiper landed in LC
19-apr-19 Deepsea Atlantic	03:50	05:10	80	2000	13,02 PUMP CMT	@ 4785stk bumped plug @ 6520stk (05:10). Circ pressure 40bar bumped plug and pressured 100 up to 110bar, 70bar above circ pressure and held for 5min. 35/11-8-12 BY1H
						Lined up to cmt unit opened 2" remote ball valve on cmt head, realesed ball for bottom plug and started to gumo 32.34m* 1.90se cement slury. Realesed dart for too plus and displaced
						and started to pump 32,34m* 1,90sg cement slurry. Realesed dart for top plug and displaced dart with DW, volum pumped 4m*/170bar. Closed low tourge on cmt head and lined over to
19-apr-19 Deepsea Atlantic	01:35	03:50	135	2000	13,02 PUMP CMT	100 MPs. Sig11-8-12 BY1H Continued to circulate 1,5 B/U, Max 1800 IPM -36 BARS. Observed loss. Decreased flowrate in steps to 12000 FM dynamic loss rate 1,3m/hr. Started to pump 30m*1,75sg low density
19-apr-19 Deepsea Atlantic	00:00	01:35	95	2000	5 CIRCULATE AND CONDITION MUD	100 mud & 20m³ 1,5sg MCS spacer. Closed kelly cock on TD and set 50bar back-pressure. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic	23:00	00:00	60	2000	5 CIRCULATE AND CONDITION MUD	100 Circulated 1,5 B/U. Increased flowrate in 200 LPM steps to max 1800 LPM - 36 BARS. 35/11-8-12 BY1H
10-apr-15 Deeples Austric	23.00	00.00		1000	3 CINCODATE AND CONDITION WILD	Reduced pumprate to 500/pm and landed casing hanger in wellhead acc to Aker instructions.
18-apr-19 Deepsea Atlantic	22:45	23:00	15	2000	12,14 LAND/ PULL CSG ON LANDING STRING	100 Set down all casing weight + 5 ton landing string weight (hookload 77ton). 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	21:55 21:40	22:45 21:55	50 15	1985 1985	5 CIRCULATE AND CONDITION MUD 6.1 MAKE UP BHA	100 Filled pipe and broke circulation in 200 LPM steps to max 1200 LPM-19 BAR. 35/11-B-12 BY1H 100 Transfered cmt stand from AUX to MAIN. Connected TD to same. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic	20:50	21:40	50	1985	12,14 LAND/ PULL CSG ON LANDING STRING	100 RIH with 13 5/8"x 14"csg and 14" hanger on 5 7/8" HWDP from 1651m to 1985m. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	20:45 20:15	20:50 20:45	5 30	1651 1651	6,31 L/D DRILLSTRING 12,14 LAND/PULL CSG ON LANDING STRING	100 L/D sgi to RCWM 35/11-8-12 BY1H 100 RiH with 13 5/8"x 14"csg and 14" hanger on 5 7/8" HWDP from 1623m to 1651m. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	19:50	20:15	25	1623	6,33 CHANGE HANDLING EQUIPMENT	100 Removed 14" FMS slips, lower hanger below rotary and installed master bushing/slips. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	19:15 19:00	19:50 19:15	35 15	1623 1610	12,9 PICK UP AND MAKE UP CASING HANGER 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 P/U 14" csg hanger and M/U according to Aker procedure. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic	18:45	19:00	15	1610	38.01 CLEAN AND CLEAR RIGFLOOR	100 Cleaned and cleared driffloor prior to pick up hanger. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	18:20 18:05	18:45 18:20	25 15	1610 1610	12,12 RIG DOWN CASING/LINER EQUIPMENT 5 CIRCULATE AND CONDITION MUD	100 Uninstalled CRTI and laid down same to RCWM. 35/11-8-12 BYH 100 Top up 14" CSG and broke circulation with 200 lpm. Took up/down 235 t/205 t. 35/11-8-12 BYH
						RIH with 14" casing from 1500 m to 1610 m using CRTI. Filled every stand with 1,34 SG
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	17:45 17:30	18:05 17:45	20 15	1610 1500	12,1 RUN CASING IN OPEN HOLE 12,11 RIG UP CASING/LINER EQUIPMENT	100 mud. 35/11-8-12 8Y1H 100 Changed to 14" Jaws on CSG tong. Calibrated CRTi with new torque for 14" CSG. 35/11-8-12 8Y1H
18-apr-19 Deepsea Atlantic	17:20	17:30	10	1500	12,1 RUN CASING IN OPEN HOLE	100 Made up XDS 13 5/8" x 14". 35/11-8-12 8Y1H RIH with 13 5/8" casing from 1290 m to 1475 m using CRTI. Filled every stand with 1,34 SG
18-apr-19 Deepsea Atlantic	17:00	17:20	20	1475	12,1 RUN CASING IN OPEN HOLE	100 mud. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic	16:50	17:00	10	1290	12,11 RIG UP CASING/LINER EQUIPMENT	100 OWS checked batteri on CRTi . 35/11-8-12 BY1H Ran carefully through 20" shoe and cont. RIH with 13 5/8" casing from 903 m - 1290 m using
18-apr-19 Deepsea Atlantic	16:00	16:50	50	1290	12,1 RUN CASING IN OPEN HOLE	100 CRT: Filled every stand with 1.34 SG mud. 35/11.R.12 RV1H
18-apr-19 Deepsea Atlantic	15:00	16:00	60	890	5 CIRCULATE AND CONDITION MUD	Took up and down weights before entering 20" shoe. Break circulation in steps of 200 lpm to 2500 (pm. Stable parameters on every step. Circulated 15 min with 2500 (pm/ 21 bar. 100 Down/up people 150/7137: 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	14:35	15:00	25	890	12 RUN CASING IN CASED HOLE	100 RIH with 13 5/5 CSG from 664 m to 890 m using CRTI . Filled every stand with 1,34 SG mud. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	14:15	14:35	20	664	12 RUN CASING IN CASED HOLE	100 Visual check on threads 135/8 CSG 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	12:30	14:15	105	664	12 RUN CASING IN CASED HOLE	100 RIH with 13 5/5 CSG from 74 m to 664 m using CRTi . Filled every stand with 1,34 SG mud. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	12:00 11:50	12:30 12:00	30 10	74 74	8,08 DOWN TIME - Casing running - Tech 12,6 MAKE UP SHOETRACK	100 Troubleshot on CSG tong /computer. Made up first connection using CSG tong. 35/11-8-12 BYTH 100 Made up first connection using CSG tong. 35/11-8-12 BYTH
18-apr-19 Deepsea Atlantic	10:50	11:50	60	38	12,11 RIG UP CASING/LINER EQUIPMENT	100 Installed batteri pakage and Calibrated CRTi torque against cyberbase. 35/11-8-12 BYTH
18-apr-19 Deepsea Atlantic	10:30	10:50	20	38	12,6 MAKE UP SHOETRACK	100 Engaged CRTi to shoetrack and RIH with same. Checked that shoe did not fill with mud. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	09:15	10:30	75	0	12.11 RIG UP CASING/LINER EQUIPMENT	100 Riseed up for 13 5/8 CSG. Installed CRTi tool according to DWS. Installed FMS and CSG tone. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	09:00	09:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting for rig up and RIH 13 5/8 CSG. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	08:30 07:50	09:00 08:30	30 40	0	38,01 CLEAN AND CLEAR RIGFLOOR 6,11 LAY DOWN BHA	100 Cleaned and cleared drifffoor prior to next operation. 35/11-8-12 BYTH 100 Broke out and laid down MUT with NBP. Broke out and laid down wash stand. 35/11-8-12 BYTH
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	07:35 07:25	07:50 07:35	15 10	47 58	1 RIG UP AND TEAR DOWN. 6.31 L/D DRILLSTRING	100 Removed wipers and plate from rotary. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic	06:50	07:25	35	58	6,83 PODH with BHA 8,03 DOWN TIME, OTHERS	100 POOH with MUT and NBP on 5 7/8" HWDP from 401m to 58 m 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	06:20 06:10	06:50 06:20	30 10	364 401		100 Installed 1x wiper in rotary. Dropped 3%" drift in stand #9. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	06:00 05:20	06:10 06:00	10 40	430 401	12,13 SEAL ASSY / WEAR BUSHING 6,82 RIH with BHA	100 Pulled NBP free according to Aker procedure. NBP realeased with 17T OP. 35/11-8-12 BY1H 100 RIH with MUT on 5 7/8" HWDP T/430m MD 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	05:00	05:20	20	67	12,13 SEAL ASSY / WEAR BUSHING	100 P/U and M/U Alser MUT and sngl 5 7/8" HW to Jet sub std. 35/11-8-12 8Y1H Cleaned and cleared driffloor.
						Meanwhile function tested blind shear ram on yellow pod from tool pushers panel and
18-apr-19 Deepsea Atlantic	04:40	05:00	20	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 accustics. 35/11-B-12 BY1H Debrief with involved personnel after handling 16" BHA and trip out og hole/Prejob meeting
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	04:25 04:10	04:40	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6.11 LAY DOWN BHA	100 before RIH and retrieve NBP. 35/11-8-12 BY1H 100 POOH with 16" BHA and transported same to AUX WC. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic	04:00	04:10	10	23	6,33 CHANGE HANDLING EQUIPMENT	100 B/O XO, M/U 6 5/8" LS and changed handling equipment to 6 5/8". 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	03:30 03:00	04:00 03:30	30 30	25 220	6,83 POOH with BHA 6,01 POOH CH	100 POOH with BHA on 5 7/8" HWDP and L/D jar F/220m T/25m 35/11-8-12 BY1H 100 POOH with 16" BHA on 5 7/8" DP T/220m MO. Compensated BHA through BOP. 35/11-8-12 BY1H
		03:00	15	628	6,41 FLOW CHECK	Flow checked well against TT before pull BHA through BOP.
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	02:45 02:35	02:45	15 10	628	6,01 POOH CH	100 Meanwhile performed prejob meeting before handle BHA. 35/11-8-12 BY1H 100 POOH F/875m T/628m MD with 16"BHA. 35/11-8-12 BY1H
18-apr-19 Deepsea Atlantic 18-apr-19 Deepsea Atlantic	02:00 01:45	02:35	35 15	875 875	15,01 FUNCTION TEST BOP 6,41 FLOW CHECK	100 Functiontested BOP Ram's and Annular's on yellow POD from TP panel. 35/11-8-12 8Y1H 100 Flowchecked well with BHA @ 20°csg shoe. 35/11-8-12 8Y1H
18-apr-19 Deepsea Atlantic	00:30	01:45	75	875	6,6 POOH OH	100 POOH from 1916m to 875m. 35/11-B-12 BY1H
18-apr-19 Deepsea Atlantic 17-apr-19 Deepsea Atlantic	00:00 23:45	00:30	30 15	1916 1916	6,04 PUMP SLUG 6,6 POOH OH	100 Connected TD to string and slugged pipe with 1,64sg OBM. 35/11-8-12 BY1H 100 Pulled first 3 stands wet. 35/11-8-12 BY1H
17-apr-19 Deepsea Atlantic	23:30	23:45	15	2007	6,41 FLOW CHECK	100 Flow checked well against TT. Well statick. 35/11-8-12 BY1H Took TD survey. Circulated hole clean with 5600 lpm/288 bar/160 rpm/7 knm. Reciprocated
17-apr-19 Deepsea Atlantic	20:00	23:30	210	2007	S,01 CIRCULATE HOLE CLEAN	itos. I o Survey. La classes inos cases main 3000 jany 200 say 200 jany 2 mm. ne. approcaes string glowly up and down. Performed readings free rotation 30rpm/9,2MNm, Up weight 146ton and Down weight 100 118ton. 35/11-8-12 8Y1H
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17-apr-19 Deepsea Atlantic	12:00	20:00	480	2007	2 [DRILL ACTUAL	Drilled from 1583 m to 2007 m with 4800 lpm/193 bar; 140 rpm/7-9 kNm, 5-7 WOB according to DO instructions. ROP 100 m/h, 50 m/h while stearing. At 1875 m reduced ROP 100 due to increasing ECO and less cuttings on shaker. Drilled from 947 m to 1583 m withh 4800 lpm/193 bar; 140 rpm/7-9 kNm, 5-7 WOB	35/11-B-12 BY1H
17-apr-19 Deepsea Atlantic	00:50	12:00	670	1583	2 [DRILL ACTUAL	100 according to DD instructions. ROP 100 m/h , 50 m/h while stearing.	35/11-B-12 BY1H
17-apr-19 Deepsea Atlantic	00:00	00:50	50	947	2,4 7	TIME DRILLING	Time drilling from 945 m to 947 m according to DD instructions 3200 lpm/91bar, 80rpm/2-6 100 kNm, WOB 0-2 ton. 2m/hour.	35/11-8-12 AH
16-apr-19 Deepsea Atlantic 16-apr-19 Deepsea Atlantic	16:30	00:00	450	945		TIME DRILLING	Time drilling from 930m to 945 m according to DD istructions 3200 lpm/91bar, 80rpm/2-6 100 kMm, WOB 0-2 ton. 2m/hour.	35/11-B-12 AH
16-apr-19 Deepsea Atlantic	16:20	16:30	10	930	2,9 5	LR .	100 SCR readings Time drilled from 928 m to 930 m according to DD instruction. 3200 lpm/91 bar, 80 rpm/2-6	35/11-B-12 AH
16-apr-19 Deepsea Atlantic	12:00	16:20	260	930	2,4 1	TIME DRILLING	100 kNm, W08 0-2 ton. Increase from 1,5 m/hour to 2 m/hour from 14:00 hrs. Time drilled from 926 m to 928 m according to DD instruction. 3200 lpm/91 bar, 80 rpm/2-6	35/11-B-12 AH
16-apr-19 Deepsea Atlantic	07:00	12:00	300	928	2,4 1	TIME DRILLING	100 kNm, W08 0-2 ton. Time drilled from 921 m to 926 m according to DD instruction. 3200 ipm/91 bar, 60-80	35/11-B-12 AH
16-apr-19 Deepsea Atlantic	00:00	07:00	420	926	2,4 1	TIME DRILLING	time drined from 9.11 m to 926 m according to DD instruction. 3.200 ipm/90 dair , 60-80 100 rpm/2-8 kNm, WOB 0-2 ton.	35/11-B-12 AH
							Lost WOB at 908 m. Start timedrill. Drill cement from 908 m to 917 m with 0-2 ton WOB, 100 rpm / 5-6 kNm, 3200 lpm / 98 bar. Drill with limit on 1,5 m/hour. Attempt to kick off	
							with different parameters - 60-80 rpm, limit ROP from 1,5-10 m/h, attempt to	
15-apr-19 Deepsea Atlantic	14:10	00:00	590	921	2,4 1	TIME DRILLING	100 timedrill/ream same spot at 917 m. Time drilled according to DD instruction. Start to drill cement from 890 m to 908 m with 5-12 ton WOB, 60 rpm / 6-16 kNm, 4033 lpm	35/11-B-12 AH
15-apr-19 Deepsea Atlantic	12:00	14:10	130	908	2,3 [DRILL CEMENT		35/11-B-12 AH
15-apr-19 Deepsea Atlantic	11:40	12:00	20	890	2,3 [DRILL CEMENT	Start to drill cement from 884 m to 890 m with 5-12 ton WOB, 60 rpm / 6-16 kNm, 4033 lpm 100 / 140 bar.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	11:30 11:00	11:40 11:30	10 30	884,5 855		WASH DOWN KICK DRILL, CHOKE DRILL	100 Wash down and tag hard cement at 884,5 m. 4000 lpm - 137bar 100 Close upper annular. Preform choke drill with drilling crew. Open annular.	35/11-B-12 AH 35/11-B-12 AH
15-apr-19 Deepsea Atlantic	10:50	11:00	10	855	2,9 \$		Record SCR with MP 1 and MP 4. MP 1: 20 strokes/7 bar, 30 strokes/8 bar, 40 strokes/10 100 bar. MP 4: 20 strokes/7 bar, 30 strokes/8 bar, 40 strokes/11 bar.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic	10:40	10:50	10	855		FILL PIPE	100 Fill pipe and break circulation.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic	10:10	10:40	30	855		DOWN TIME, OTHERS		35/11-8-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	10:00 09:30	10:10 10:00	10 30	855 855	6 F	ENGAGE TOP DRIVE AND LAND TOOLS RIH CH	100 RIH with 16" BHA on 5-7/8" DP from 398 m to 855 m.	35/11-8-12 AH 35/11-8-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	09:25 09:20	09:30 09:25	5	398 360		COMPENSATE THROUGH BOP RIH CH	100 Compensate through BOP with 16" BHA from 360 m to 398 m. 100 RIH with 16" BHA on 5-7/8" DP from 221 m to 360 m.	35/11-8-12 AH 35/11-8-12 AH
15-apr-19 Deepsea Atlantic	09:00	09:20	20	221	6,1 [MAKE UP BHA	RIH with 3 STD 5-7/8" HWDP, P/U jar from RCW and RIH with 2 STD 5 7/8" HWDP. RIH and 1nn L/D singel on first stand 5-7/8" DP.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic	08:30	09:00	30	37	6,13 T	TRAINING WITH MANUAL RIG TONGS	Held prejob meeting prior to training with rig tong. Training with rig tongs with crew. M/U 100 first 5-7/8" HWDP with rigtongs.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	08:25 08:15	08:30 08:25	5 10	37 37	6,33 (CHANGE HANDLING EQUIPMENT MAKE UP BHA	100 Change handlingequipment from 6-5/8" to 5-7/8". 100 RIH with 16" drilling BHA, L/D handlingsub. Install XO.	35/11-8-12 AH 35/11-8-12 AH
15-apr-19 Deepsea Atlantic	08:00	08:15	15	0		CLEAN AND CLEAR RIGFLOOR	100 Clean and clear driffinor. Meanwhile change dies in HT and rig up for casing in aux.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic	07:45	08:00	15	0		PREJOBMEETING - BRIEF/DEBRIEF	100 Clear and clear deminder, weathering clears in H1 and rig up for casing in add. 100 Held prejob meeting prior for next run. Held prejobmeeting prior to build 16" BHA. Meanwhile change dies in HT and rig up for	35/11-8-12 AH
15-apr-19 Deepsea Atlantic	07:45	08:00	15	0	25,3 F	PREJOBMEETING - BRIEF/DEBRIEF	Head prejormenting prior to build 16" BHA. Meanwrise change dies in H1 and ng up tor 100 casing in aux.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	07:30 07:10	07:45 07:30	15 20	0	6,33 (CHANGE HANDLING EQUIPMENT	100 Change inserts in elevator from 5-7/8" to 6-5/8". Transfer 16" BHA from aux to main.	35/11-B-12 AH 35/11-B-12 AH
15-apr-19 Deepsea Atlantic	06:55	07:10	15	11	6,11 L	LAY DOWN BHA	100 POOH with 20" RTTS plug, pull same above RKB and L/O same to RCW. 100 POOH with 5-7/8 HWDP from 196 m to 11 m.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	06:45 06:10	06:55 06:45	10 35	196 196	6,08 F	P/U DRILLSTRING POOH CH reduced speed	100 P/U and M/U double. 100 POOH with 20" RTTS from 820 m to 196 m. Compensated through BOP.	35/11-B-12 AH 35/11-B-12 AH 35/11-B-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	06:05 05:45	06:10 06:05	5 20	820 840		L/D DRILLSTRING PUMP SLUG	100 Broke out an laid down double for space out BOP. 100 Pumped 5 m3 1,56 SG slug and displaced same. Disconnected TD.	35/11-8-12 AH 35/11-8-12 AH
15-apr-19 Deepsea Atlantic	05:35	05:45	10	860	12,88 5	SET/RELASE MECH PLUGS	Released 20" RTTS according to procedure. Waited 10 min for elements to releax. 100 Meanwhile installed wiper and plate in rotary and observed well on TT.	35/11-8-12 AH
15-apr-19 Deepsea Atlantic	05:00	05:35	35	865	15 F	PRESS. TESTING OF CSG UNDER BOP TEST	Closed upper annular. Performed pressure test of 20" CSG to 20/90 bar for 5/10 min. 100 Opened UAP.	35/11-B-12 AH
							Made up TD to string. Established circulation to 800 lpm for a few minutes. Positioned string	
15-apr-19 Deepsea Atlantic	04:25	05:00	35	867	12,88 5	SET/RELASE MECH PLUGS	at setting depth for bottom plug at 867 m. Attempted to sit 20" RTTS according to 100 procedure. No Go. Changed setting depth to 865 m and sat 20" RTTS.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic	04:15	04:25	10	840	6,3 F	P/U DRILLSTRING	100 Picked up double for space out setting 20" RTTS.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	03:35 03:25	04:15 03:35	40 10	821 215	6,07 F	RIH CH Reduced speed L/D DRILLSTRING	RIH with 20 "RTTS with reduced speed according 1,5 min/stand from 215 m to 821 m. 100 Compensated through 80.P. 100 Broke out and bild down double fro space out 80.P.	35/11-B-12 AH 35/11-B-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	02:45 02:30	03:25 02:45	40 15	197	6,1 M	L/D DRILLSTRING MAKE UP BHA PREJOBMEETING - BRIEF/DEBRIEF	100 P/U RTTS, made up XOS and RiH on 5 7/8 HWDP. 100 Prejobmeeting for run 20° RTTS.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
15-apr-19 Deepsea Atlantic 15-apr-19 Deepsea Atlantic	02:15 00:40	02:30 02:15	15 95	0	38,01 (CLEAN AND CLEAR RIGFLOOR RIG UP OR DOWN FOR WIRELINE	100 Cleaned and cleared drifffoor. 97 Rigged down wireline equipment and toolstring.	35/11-B-12 AH 35/11-B-12 AH
15-apr-19 Deepsea Atlantic	00:30	00:40	10	0	25,3 F	PREJOBMEETING - BRIEF/DEBRIEF	100 Performed prejobmeeting for rigdown wireline.	35/11-B-12 AH
15-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic	00:00 20:15	00:30 00:00	30 225	0		WIRE LINE LOGGING WIRE LINE LOGGING	97 Pulled toolstring to surface and secured same in rotary. 97 Performed logging of 20° CSG. POOH to 100 m . Deactivated compensator.	35/11-B-12 AH 35/11-B-12 AH
14-apr-19 Deepsea Atlantic	18:15	20:15	120	0	11,03 }	WL OPERATIONS	Rigged up for wireline. P/ U WL toolstring Acc. to schlumberger and install sheaves. RIH to 97 100 m and activated compensator.	35/11-B-12 AH
14-apr-19 Deepsea Atlantic	18:00	18:15	15	0	25,3 F	PREJOBMEETING - BRIEF/DEBRIEF	Held prejob meeting prior to P/U WL toolstring. Meanwhile transfer WL items from riserdeck 100 to RCWM.	35/11-B-12 AH
14-apr-19 Deepsea Atlantic	12:00	18:00	360	0	7.01	PLANNED MAINTENANCE	Planned maintenance, Install cannous osservindeopes in main installed installed endinger upper formation and main. Check and enviryl scrapes on torquiverent. Monthly inspection on both IRI. Check accountation on both IRI. Wideler fix install crack on main HRI main arm., Pull Casel from offiding to top in direct for lower cumer ain main endienter. Fix bugs for misuse on sylventriase Casel lengths of exploration E. Assets with yearly sequention of the pull control on the control arms of the pull control on the Check Pull. On differing case, interface with one over a control of the control on the control of the control of the control on the control of the control on the contr	35/11-8-12 AH
14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic	11:30 11:15	12:00 11:30	30 15	0	38,01 0	CLEAN AND CLEAR RIGFLOOR PREJOBMEETING - BRIEF/DEBRIEF	100 Clean and clear driffloor. Remove clay from driffloor from pulling of 14" casing. 100 Debrief after 20" scrape run, kick drill and build- and lay down of BHA.	35/11-B-12 AH 35/11-B-12 AH
14-apr-19 Deepsea Atlantic	10:45	11:15	30	0	6,11 L	LAY DOWN BHA	100 B/D jar and magnet assy in pieces. L/D 20" casing scrape and 17-1/2" bit to RCWM.	
14-apr-19 Deepsea Atlantic	10:30	10:45	15	42		PREJOBMEETING - BRIEF/DEBRIEF	100 Held prejobmeeting prior to L/D 17-1/2" Rockbit and 20" Scrape BHA. P/U double 5-7/8" DP from RCWM. Remove plate and 2 x wipers under RKB. Rack back last 5	
14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic	10:15 10:00	10:30 10:15	15 15	61 61	1 1	RIG UP AND TEAR DOWN.		35/11-B-12 AH 35/11-B-12 AH
	09:55	10:00			675 7		100 7/8" DP stand. 100 8000 with 17.1/3" Book hit on 5.7/9" DB from 264 m to 61 m	35/11-B-12 AH 35/11-B-12 AH
			-	264		TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with 17-1/2" Rock bit on 5-7/8" DP from 364 m to 61 m. Compensate through BOP with landingmode with 17-1/2" Rock bit and 20" scrape. No	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepsea Atlantic	09:25	09:55	5 30	364 402 856	6,74 C	COMPENSATE THROUGH BOP POOH CH reduced speed	100 POOH with 17-1/2" Rock bit on 5-7/8" DP from 364 m to 61 m. Compensate through BDP with landingmode with 17-1/2" Rock bit and 20" scrape. No 100 overpull observed. 100 POOH with reduced speed with 20" scrape on 5-7/8" DP from 856 m to 402 m.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic	09:15	09:55 09:25	5 30 10	402 856	6,74 (6,08 F 1 F	COMPENSATE THROUGH BOP POOH CH reduced speed RIG UP AND TEAR DOWN.	100 POOR with 17-1/2" Rock bit on 5-7/8" DP from 364 in to 61 in. Compensate through Bow with landingmode with 17-1/2" Rock bit and 20" scrape. No 100 overpuil observed. 100 POOF with reduced speed with 20" scrape on 5-7/8" DP from 856 in to 402 in. 100 Poll up dobbed 7-7/8" DP. install pitate and 2 x wipers under creary. Bit with 20" scrape on 5-7/8" DP from 420 in 23" Ris. Max with 21" 1-1/2" bit to 878 in -5 in	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic	09:15 09:05 08:55	09:55 09:25 09:15 09:05	10 10	402 856 878 667	6,74 C 6,08 F 1 F 6,07 F 15,04 B	COMPENSATE THROUGH BOP POOH CH reduced speed RIG UP AND TEAR DOWN. RIH CH Reduced speed RICK DRILL, CHOKE DRILL	100 POOR with 13 F/2/F book bit on 5 F/F OP from 8 de m to 6 film. Companies through BOP with undergrown with 13 F/2/F blook bit and 20° scrape. No Companies through BOP with an expense of the 10 F/F OP from 8 de m to 8 de m 100 POOR with reduced upper with 20° scrape on 5 F/F OP from 8 de m to 8 de m 100 Pool bit of with reduced upper with 20° scrape on 5 F/F OP from 8 de m to 9 f/F op from 9 de m to 9 f/F	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic	09:15 09:05 08:55 08:40 08:30	09:55 09:25 09:15 09:05 08:55 08:40	10 10 15 10	402 856 878 667 667 402	6,74 (6,08 F 1 F 6,07 F 15,04 B 6,07 F 6,74 (COMPENSATE THROUGH BOP POOH CH reduced speed RISG UP AND TEAR DOWN. RIH CH Reduced speed RCKC DRILL, CHOKE DRILL RIHCH REduced speed COMPENSATE TRADUGH BOP	100 POOH with 3.13 / 2" Koto bit on 5.7% O' Port on 54 m to 5 ft in Compensate through Bit O' will designed with 13.12 / 2" Rock bit and 30" scrape. No 100 overpul observed. 100 POOH with reduced speed with 20" scrape on 5.7% "O' Port on 856 m to 462 m. 100 Poll up dobbet 5.7% O' Port install paiss and 2" surper under creary. 25% with visit of 2 scrape on 5.7% "O' Port on 420" on 25% on 50% of 100 poll up to	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
14-apr.19 Deepsea Atlantic 14-apr.19 Deepsea Atlantic 14-apr.19 Deepsea Atlantic 14-apr.19 Deepsea Atlantic 14-apr.19 Deepsea Atlantic 14-apr.19 Deepsea Atlantic 14-apr.19 Deepsea Atlantic	09:15 09:05 08:55 08:40 08:30 08:15	09:55 09:25 09:15 09:05 08:55 08:40 08:30	10 10 15 10 15	402 856 878 667 667 402 364	6,74 (6,08 F 1 F 6,07 F 15,04 B 6,07 F 6,74 (6,75 T	COMPRESATE THROUGH BOP POOR OF Indicated speed for UP AND TEAR DOWN. RISH CH Reduced speed for COMPLICATION RISH CH REGULAND SPEED RISH CH RESERVITH FULL BORE TOOLS	100 POOH with 3.1 / L ² / Ross bit en 5.7 / R ² O P from 36 m to 5 fm. Compress through 80 V mid-disprised with 1.7 1 / L ² foot bit and 30° craps. No 100 owing all observed. 100 POOH with mit-dead open 4 mith 30° craps on 5.7 / R ² O P from 166 m to 460 m. 100 POOH with mit-dead open 4 mith 30° craps on 5.7 / R ² O P from 6 mit 6 m to 6 m. 8 mit with 30° craps on 5.7 / R ² O P from 402 m to FR m. Num with 17.4 / L ² bit to 878 m · 5 m. 100 show both Cost 88 m. 20° craps on 5.7 / R ² O P from 402 m to 667 m. 100 Res with mit for craw. 100 Res with mit for craw. 100 Res with mit foot craw of 5.7 / R ² O P from 402 m to 667 m. 100 Compressat through 80° with 17.2 / R ² feet for the and 20° craps on 5.7 / R ² O P from 402 m to 667 m. 100 Compressat through 80° with 17.2 / R ² feet for the and 20° craps on 5.7 / R ² O P from 402 m to 667 m.	35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepsea Atlantic	09:15 09:05 08:55 08:40 08:30 08:15	09:55 09:25 09:15 09:05 08:55 08:40 08:30	10 10 15 10 15 10	878 667 667 402 364	6,74 C 6,08 F 1 F 6,07 F 15,04 B 6,07 F 6,74 C 6,75 T	COMPRISATE THROUGH BOP PODDED IT REGIONS OF BOP ROUTE OF REGIONS RIN CH Reduced speed KEY DRILL, LONG ERILL KEY DRILL, LONG ERILL RED Missed Speed RED MISSED RED RED RED RED RED RED RED RED RED R	100 POOR with 13 12 / 27 Rock bit on 5 7/6 O' Pom 6 and to 16 km is 6 km. Companies through BOV will and organization with 13 12 / 27 Rock bit and 20' scrape. No 100 POOR with reduced speed with 20' scrape on 5 7/6 O' Pom 15 km is 6 x6 km. 100 Polity or with reduced speed with 20' scrape on 5 7/6 O' Pom 15 km is 6 x6 km. 100 Polity organization 5 7/6 O' Pom 16 km is 60' km is 60' km. 100 Rock and 6 x6 x7 Rock bit 10 x6 x7 km is 60' km is 60' km. 101 Rock and 6 x6 x7 km is 60' km is 60' km. 102 Rock and 6 x6 x7 km is 60' km is 60' km. 103 Rock and 6 x6 x7 km is 60' km is 60' km. 104 Rock and 6 x6 x	35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepsea Atlantic 14-apr-19 Deepsea Atlantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30	09:55 09:25 09:15 09:05 08:55 08:40 08:30 08:15	10 10 15 10 15 10 15 45	402 856 878 667 667 402 364	6,74 (6,08 F 1 F 6,07 F 15,04 B 6,07 F 6,74 (6,75 1 6,1 B	COMPRISON THROUGH BDP ODDING Hardward gener BIG UP AND TEAR DOWN. BIR CHE MELONE GENER BIR CHE MELON GENERAL GENERAL BIR CHE MELON GENERAL CLEAN AND CLEAR BIR GENOR REPORMETTION GENERAL CLEAN AND CLEAR BIR GENOR REPORMETTION GENERAL CLEAN AND CLEAR BIR CHE GENERAL CLE	100 POOH with 13 1/2 ff book bit on 5 //ft 0 P from 36 fm to 6 fm. Comprehen through BOP with undergrowd with 13 1/2 ff book bit and 20° scrape. No Comprehen through BOP with undergrowd with 2 ff book bit on 10 fm. 100 Pullup doubles 5 //ft 0 P fm. bit of 2 fm. bit on 10 fm. bit on 10 cold to 10 fm. 100 Pullup doubles 5 //ft 0 P fm. bit of 2 fm. bit on 10 fm. 100 been both of 2 fm. bit of 2 fm. cold to 10 fm. bit on 10 fm. bit	35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepsea Atfantic 14-apr-19 Deepsea Atfantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30	09:55 09:25 09:15 09:05 08:55 08:40 08:30 08:15	10 10 15 10 15 45	402 856 878 667 667 402 364 61	6,74 (6,08 f 1 F 6,07 f 15,04 h 6,07 f 6,74 (6,75 l 6,1 h 38,01 (25,3 f 38,01 (COMPRIGATE THROUGH REP FOOT OF THROTH REP FOUND HIS PROPERTY OF THE P FOUND HIS	100 POOH with 3.1 / 1/2 Feats bit en 5.7 / 1/2 Feb Pool 8 / 1 m 5.6 ft. m 1.0 ft. m 1.	35/11-8-12 AH 35/11-8-12 AH
14-apr 19 Deppes Attantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 06:45 06:25	09:55 09:25 09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:30 07:15 07:00 06:45	10 10 15 10 15 15 45 15 15 15 10	402 856 878 667 667 402 364 61 0 0	6,74 (6,08 F 1 F 6,07 F 15,04 B 6,07 F 6,74 (6,75 I 6,10 38,01 (25,3 F 38,01 (1 F 6,11 L	COMPRISON THROUGH REP FOOTH OF Hadded speed ING UP AND TEAD COWN. BIT OF THE ADDRESS OF THE A	100 POCH with 3.7 L/2" Rook bit on 5.7 P/C Offen on 5 de m to 6 fm. Compensation through BOV will and organization with 1.7 L/2" fince bit and 20" scrape. No 100 POCH with reduced speed with 20" carpage on 5.7 P/C Offen bit on 16 of 20 m. 100 PoCH with reduced speed with 20" carpage on 5.7 P/C Offen bit on 16 of 20 m. 100 PoCH with reduced speed with 20" carpage on 5.7 P/C Offen bit on 16 m. The 100 PoCH with 16 P/C carpage on 16 P/C offen on	35/11-8-12 AH 35/11-8-12 AH
14-apr-19 Deepse Atlantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 06:45 06:25 06:15 06:15	09:55 09:15 09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 06:45 06:35 06:25 06:15	10 10 15 10 15 45 45 15 15 10 10 10	402 856 878 667 667 402 364 61 0 0 0 0 0 2 24	6,74 (6,08 F 1 F 6,07 F 15,04 B 6,07 S 6,72 S 6,73 S 6,13 S 38,01 C 25,3 F 6,11 L 6,3 F 6,11 L 6,3 F	COMPRIGATE THROUGH SEP FOOT OF THROTH SEP BIG UP AND THAN DOWN. BIF OF THE CHECKER SEP ENCY BEAUTIFUL CHOCKE OPILE BIF OF THROTH SEP ENCY BEAUTIFUL CHOCKE OPILE ENCY BEAUTIFUL CHOCKE OPILE ENCY BEAUTIFUL CHOCKE OPILE ENCY BEAUTIFUL CHOCKER OPILE ENCY BEAUTIFUL CHOCKER SEP ENCY BEAUTIFUL CHOCKER SEP ENCY BEAUTIFUL CHOCKER SEP ENCY BEAUTIFUL CHOCKER EN	100 POOH with 13 1/2 ff book bit on 5 //ff 0 Pf bron 3 ff m to 6 ftm. Comprehen through BOP will investigate the 13 1/2 ff book bit and 20° scrape. No Comprehen through BOP will investigate the 13 1/2 ff book bit and 20° scrape. No 100 Poll-up doubles 5 //ff 0° fr. bron 100 ftm.	35/11-812 AH 35/11-812 AH
14-apr 19 Deepes Atlantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 06:45 06:35 06:25 06:15 05:40 05:40 05:40 05:40	09:55 09:25 09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:30 06:45 06:35 06:25 06:15 05:45 05:45 05:45	10 10 15 10 15 45 45 15 15 10 10 10 30 5	402 856 878 667 667 402 364 61 0 0 0 0 2 4 24 24 859	6,74 (608 ft 18 ft	COMPRIGATE THROUGH REP FOOTH OF INCIDENCE AND PROPERTY OF THE	100 POOH with 3.1 2/12 feets bit en 5.7 2/10 O'P from 36 m to 9.5 m. Compressed through 80 O'P will reducing one with 1.2 1/27 feets bit and 20" scrape. No Compressed through 80 O'P will reducing content of 1.2 1/27 feets bit and 2.0 % crape. 100 Pool from the calculate of 1.2 feets of 1.2 feets one 1.2 feet	35/11-812 AH
44-apr-19 Deepse Atlantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 06:45 06:35 06:25 06:15	09:55 09:25 09:15 09:05 08:35 08:30 08:15 07:30 07:15 07:30 07:15 06:45 06:35 06:25 06:15 06:45	10 10 15 10 15 45 45 15 15 15 10 10 10	402 856 878 667 402 364 61 0 0 0 0 2 2 4 24 24 859	6,74 (608 ft 18 ft	COMPRISON THROUGH REP FOOD OF HE HAND REP FOO HE HAND REP FOOD	100 POOR with 13 12 / 2" Rob bit on 5 / 2" (If "Office on 5 in the	35/11-812 AH 35/11-812 AH
14-april Deppesa Atlantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 06:45 06:35 06:25 06:15 05:40 05:40 05:40 05:40	09:55 09:25 09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:30 06:45 06:35 06:25 06:15 05:45 05:45 05:45	10 10 15 10 15 45 45 15 15 10 10 10 30 5	402 856 878 667 667 402 364 61 0 0 0 0 2 4 24 24 859	6,74 (6.08 F 1.6 F 6.07 F 15,04 N 6,07 F 6,74 C 75,3 F 6,1 N 38,01 C 1.5 F 6,1 R 6,	COMPRIGATE THROUGH REP FOOT OF THROTH REP FO	100 POOR with 13 12 FE has bit to 5 7/6 O' Pen find Set in to 6 fem. Companies through BOV will endingtion with 13 12 FE find bit and 20' scrape. No Companies through BOV will endingtion with 13 12 FE find bit and 2 ship care 100 PoOR with reduced speed with 20' scrape on 5 7/6 O' Pen to 85 m. 100 100 PoOR with reduced speed with 20' scrape on 5 7/6 O' Pen to 85 m. 100 100 Feb of 20 Feb of 5 7/6 O' Pen find 60 m. 10 FE fin Men with 10 12 Feb of 10 FE m. 10 100 Feb of 20 Feb of 10 FE find 10 FE find 10 FE find 10 FE fin Men with 10 12 Feb of 10 FE m. 10 100 Feb of 20 Feb of 10 FE find 10 FE f	35/11-8-12 AH
Likepir ID Deppose Affantic Likepir ID Sepose Affantic	09:15 09:05 08:05 08:40 08:30 08:15 07:30 07:15 07:30 07:15 07:00 08:45 08:35 08:45 08:45 08:45 08:40 08:20 08:10 08:20	09:55 09:15 09:15 09:05 08:40 08:40 08:40 08:15 07:30 07:15 07:30 08:45 08 08 08 08 08 08 08 08 08 08 08 08	10 10 15 15 10 15 45 15 15 15 10 10 10 30 5 20	402 856 878 667 667 402 364 61 0 0 0 0 0 0 24 24 24 859 859	6,74 c 6.08 f 1 f 7 6.00 f 1 f 7 6.00 f 7 6.07 f 7 6.07 f	COMPRISON THROUGH REP FOOD OF HER HAND REP FOOD H	100 POOR with 3.7 J.C.P. Rook bit on 5.7 P.C.P. Of the mid-side im 5.6 km. Compensation through BIV or winderigened with 3.1 J.C.P. Rook bit and 30° scrape, No. Compensation through BIV or winderigened with 3.1 J.C.P. Rook bit and 3.0° scrape, No. 100 PoOR with reduced speed with 30° scrape on 5.7 P.C.P. Of the mid time 4.00 km. 101 Pool bit of bit of 5.7 P.C.P. In side its and 2.0 separe on 4.00 km. 102 Rook of winderiding cream. 103 Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. The Milk with 3.0° m. S P.C. 104 Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S P.C.P. 105 Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. 106 Rook with 5.7 P.C.P. Rook bit 5.7 P.C. Coning corpora wid 3.4 p.C.P. Rook scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Of the mid 50° m. S Rook with 5.7 P.C.P. Scrape on 5.7 P.C.P. Scrape o	\$671-8-22 AM \$671-8-22 AM \$671-8-22 AM \$571-8-22 AM \$5
44-ag-10 Desposa Atlantic	09:15 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 06:45 06:25 06:15 05:40 05:20 05:10	09:55 09:15 09:05 09:05 08:55 08:40 08:15 07:30 07:15 07:30 07:15 07:00 06:45 06:45 06:45 06:50 06:50	10 10 15 15 10 15 45 15 15 15 10 10 10 30 5 20	402 856 878 667 402 364 61 0 0 0 0 0 0 24 24 859 859	6,74 c 6.08 F 18 F 6.07 F 15.04 s 6.07 F 6.0	COMPRIGATE THROUGH REP FOOT OF THROTH REP FO	100 POOR with 13 12 FE has bit to 5 7/6 O' Pen find Set in to 6 fem. Companies through BOV will endingtion with 13 12 FE find bit and 20' scrape. No Companies through BOV will endingtion with 13 12 FE find bit and 2 ship care 100 PoOR with reduced speed with 20' scrape on 5 7/6 O' Pen to 85 m. 100 100 PoOR with reduced speed with 20' scrape on 5 7/6 O' Pen to 85 m. 100 100 Feb of 20 Feb of 5 7/6 O' Pen find 60 m. 10 FE fin Men with 10 12 Feb of 10 FE m. 10 100 Feb of 20 Feb of 10 FE find 10 FE find 10 FE find 10 FE fin Men with 10 12 Feb of 10 FE m. 10 100 Feb of 20 Feb of 10 FE find 10 FE f	35/11-8-12 AH
14-ago 17 Desposa Atlantic 14-ago 17 Desposa Atlantic 14-ago 18 Desposa Atlantic 14-ago 18 Desposa Atlantic 14-ago 18 Desposa Atlantic 14-ago 19 Desposa Atlantic	09:15 09:05 08:40 08:35 08:40 08:35 07:30 07:15 07:00 06:45 06:25 06:15 09:30 09:10 09:30 09:30 09:30 09:30 09:30	09:55 09:25 09:15 09:05 08:55 08:30 08:30 08:30 08:15 07:30 07:30 06:15 06:35 06:35 06:35 06:35 06:35 06:35 06:30 06:30 06:30 06:30	10 10 15 15 15 15 15 15 15 15 15 10 10 10 10 10 10 10 10 15 15 15 15 15 15 15 15 15 15 15 15 15	402 856 878 667 667 402 364 61 0 0 0 0 0 0 0 24 24 24 24 859 859 859	6,74 c 6,00 F 6,	COMPRIGATE THROUGH REP FOOD OFFI OFFI OFFI OFFI OFFI OFFI OFFI BECH PARK OFFI OFFI OFFI OFFI BECH PARK OFFI OFFI BECH PARK	100 POOR with 13 1/2 PC Most bit on 5 /PC OF Port on 5 it is no 5 it in on 5 it in of 5 it in or 6	\$\(\)\tag{11.40_2} AM \\ \tag{11.40_2} AM \\
14-apr 10 Deepon Atlantic	09:15 09:05 09:05 08:55 08:40 08:30 08:15 07:30 07:15 07:00 08:35 06:25 06:15 05:40 05:40 05:40 05:10 03:30 03:25 06:15	09:55 09:25 09:15 09:05 08:35 08:40 08:40 08:40 08:40 08:45 07:15 07:00 08:45 08:45 08:45 08:45 08:25 08:25 08:25 08:25 08:30 08:45 08:30 08:45 08:30 08:45 08:30 08:45 08:30 08:45 08:30 08:45 08:30 08:45 08:30 08:45 08:30 08:45 08	100 100 100 100 100 100 100 100 100 100	402 856 878 667 667 402 364 61 0 0 0 0 0 0 24 24 24 859 859 859 859 872 972 992	6,74 c 6,00 F 6,07 F 6,00 F 7 6,00 F 7 6,00 F 7 6,00 F 7 6,10 F 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	COMPRIGATE THROUGH REP FOR OTHER CONTROL OF THE CONTROL ON THE CONTROL OF THE CO	100 POOR with 13 12 FE has bit as 5 7/6 O' Pet mid 16 m to 6 ftm. Companies through BOV with undergrown with 13 12 FE and bit and 20° scrape. No Companies through BOV with undergrown with 13 12 FE and bit and 20° scrape. No 100 PoOR with reduced speed with 20° scrape on 5 7/6 O' Pet mid 16 m to 6 and 100 PoOR with reduced speed with 20° scrape on 5 7/6 O' Pet mid 16 m to 6 and 100 PoOR with reduced speed with 20° scrape on 5 7/6 O' Pet mid 10 m to 6 and 100 PoOR with 10 O' scrape on 5 7/6 O' Pet mid 10 m to 6 and 100 PoOR with the filling crea. 100 PoOR with 100 PoOR with 100 Pet mid 10 m to 6 and 100 PoOR with 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100 Pet mid 100 Pet mid 100 Pet mid 10 m to 6 and 100 Pet mid 100	\$5(114.2) AM \$5(114
14-apr 10 Desposa Atlantic	09:15 09:05 08:55 08:40 08:35 08:40 08:30 08:15 07:30 07:15 07:00 08:05 07:30 08:15 07:30	09:55 09:25 09:25 09:25 09:55 08:80 08:80 08:80 08:80 08:80 09:30 09:30 09:45 09:45 09:45 09:45 09:40 09:30 09:45	10 10 10 10 10 10 10 10 10 10 10 10 10 1	402 856 878 667 667 402 364 61 0 0 0 0 0 0 24 24 24 25 859 859 859 972 992 992 995	6,74 (6.08) 6,74 (6.08) 7 (7.08)	COMPRISEST THROUGH SEP FOOT OF THROTH SEP BIG UP AND THAN DOWN BIG UP AND DOWN BIG UP AND THAN DOWN BIG UP AND THAN DOWN BIG UP AND DOWN B	100 POOR with 13 1/2 PC Most bit on 5 7/8 PC PM most dism to 6 ftm. Companies through BCP with underglowned with 13 1/2 PC Book bit and 30° scrape. No Companies through BCP with underglowned with 13 1/2 PC Book bit and 30° scrape. No 100 PC PC With methods good pool with 20° scrape on 5 7/8 PC PP from 80° and 80° and 100 PC PC With methods good to 5 7/8 PC PP from 80° and 80° and 100 PC PC WITH METHOD WITH A PC	\$2(114.2) AM \$2(114.2) AM \$2(11
14-apr 10 Depose Affantic	09:15 09:05 08:55 08:80 08:80 08:30 08:15 07:30 07:15 07:05 08:05 08:25	09:55 09:25	100 100 100 100 100 100 100 100 100 100	402 856 878 667 402 364 61 0 0 0 0 0 0 24 24 24 25 859 859 859 859 878 889 896 992 992 992 993 400 903 904 905 905 905 905 905 905 905 905	6,74 (6.08 f 6.07 f 6.0	COMPRIGATE THROUGH REP FOOT OF THROUGH REP BIG UP AND TIAD COWN. BIF CHI BEGLARE SIGNED BIC LIP AND TIAD TO COWN. BIF CHI BEGLARE SIGNED BIC LIP AND TIAD TO COWN. BIF CHI BEGLARE SIGNED TERPHARE REPORT SIGNED TERPHARE REPORT SIGNED TERPHARE REPORT SIGNED TERPHARE REPORT SIGNED TERPHARE SIGNED BIC PARCH TEAR	100 POOH with 13 1/2 PC Alox bit on 5 7/8 CP PC most of an is 6 km of 5 km of 20° scrape. No Companies through BCP with undergrown with 13 1/2 PC face bit and 20° scrape. No Companies through BCP with undergrown with 13 1/2 PC face bit and 20° scrape. No 100 PC PC with mit exclude globed with 20° scrape on 5 7/8° CP Pc most 3 km on 20° m. 100 Pc m 100	\$\(\)\tag{11.40_2} AM \\ \tag{11.40_2} AM \\
14-pp 19 Deepon Affantic	09:15 09:05 08:55 08:80 08:80 08:30 08:15 07:30 07:15 07:00 08:30 08:25 08:20 08:30 08:20 08:30 08:25 08:45 08:20 08:30 08:20 08:30 08:20 08:30	09:55 09:25 09:25 09:25 09:25 08:40 08:30	100 100 100 100 100 100 100 100 100 100	402 856 878 667 402 364 61 0 0 0 0 0 0 24 24 859 859 859 859 896 992 992 992 993 903 903 900 900 900 900 900	6,74 (6,08 f 1	COMPRIGATE THROUGH REP FOOTO CHY INDICATE AND ADDRESS	100 POOR with 37 3/2" float bit on 5 7/6" Of them 36 is m to 6 is m. Compensation through BOV with underglowned with 17 1/2" float bit and 3/" strape, No. Compensation through BOV with underglowned with 17 1/2" float bit and 3/" strape, No. 100 PoOR with reduced speed with 3/" strape on 5 7/6" Of them 85 is m to 60 in. 100 PoOR with reduced speed with 3/" strape on 5 7/6" of them 85 in m to 60 in. 101 bit of 3/" of with office of 1/4"	\$5(114.2) AM \$5(114
14-apr 10 Depose Attentic 14-apr 10 Depose A	09:15 09:05 08:55 08:80 08:80 08:30 08:15 07:30 07:15 07:05 08:05 08:25	09:55 09:25	100 100 100 100 100 100 100 100 100 100	402 856 878 667 402 364 61 0 0 0 0 0 0 24 24 24 25 859 859 859 859 878 889 896 992 992 992 993 400 903 904 905 905 905 905 905 905 905 905	6,74 (6,08 1.00 1.	COMPRIGATE THROUGH REP FOOT OF THROUGH REP BIG UP AND TIAD COWN. BIF CHI BEGLARE SIGNED BIC LIP AND TIAD TO COWN. BIF CHI BEGLARE SIGNED BIC LIP AND TIAD TO COWN. BIF CHI BEGLARE SIGNED TERPHARE REPORT SIGNED TERPHARE REPORT SIGNED TERPHARE REPORT SIGNED TERPHARE REPORT SIGNED TERPHARE SIGNED BIC PARCH TEAR	100 POOR with 37 3/2" float bit on 5 7/6" Of them 36 is m to 6 is m. Compensation through BOV with underglowned with 17 1/2" float bit and 3/" strape, No. Compensation through BOV with underglowned with 17 1/2" float bit and 3/" strape, No. 100 PoOR with reduced speed with 3/" strape on 5 7/6" Of them 85 is m to 60 in. 100 PoOR with reduced speed with 3/" strape on 5 7/6" of them 85 in m to 60 in. 101 bit of 3/" of with office of 1/4"	\$\(\)\tag{11.40_2} AM \\ \tag{11.40_2} AM \\
14-pay 10 Deepas Allantic	09:15 09:05 09:05 08:45 09:05 08:15 07:30 07:30 08:45 07:30 08:45 08:35 08:25 08:15 09:45 09:35 09:10 09:45 09:35 09:10 09:35	09:55 09:25 09:15 09:15 09:15 09:06 08:50 08:80 08:80 08:80 09:35 07:05 07:06 08:40 07:05 07:06 08:40 08:15 07:06 08:15 07:06 08:15	100 100 100 100 100 100 100 100 100 100	402 856 878 667 402 364 61 0 0 0 0 0 0 24 24 859 859 859 859 896 992 992 992 993 903 903 900 900 900 900 900	6,74 (6,07 F 6,07 F 11,007 F 12,007 F 6,1 P 13,007 F 13,	COMPRISATE THROUGH REP FOR CONTROL OF THROUGH REP BIG UP AND THAN DOWN. BIF OF HER CHEEKER SHEET BIF OF HE CHEEKER SHEET BIF OF HER CHEEKER SHEET BIF OF HER CHEEKER SHE	100 POOR with 13 1/2 PC Most bit on 5 7/8 PC PM most dism to 6 km. Companies in through BC PM with adoption with 13 1/2 PC Book bit and 30° scrape. No Companies in through BC PM with adoption with 13 1/2 PC Book bit and 30° scrape. No 100 POOR with reduced speed with 20° scrape on 5 7/8 PC PM most BC m to 400 PM. 101 PM into 9 book 5 7/9 PC PM most 30° scrape on 5 7/8 PC PM most BC m to 400 PM. 102 BC Acid With Most SCRAP CARROLL SCRAPE	\$20714-02-24M \$2
14-ago 17 Despesa Atlantic 14-ago 17 Despesa Atlantic 14-ago 18 Despesa Atlantic 14-ago 18 Despesa Atlantic 14-ago 18 Despesa Atlantic 14-ago 19 Despesa Atl	09:15 09:05 08:05 08:05 08:05 08:05 08:05 09:05 09:15 07:30 09:15 07:30 08:15 07:30 08:45	09:55 09:25 09:15 09:15 09:15 09:56 08:40 08:40 08:30	100 101 102 103 105 105 105 105 105 105 105 105 106 107 107 107 108 108 109 109 109 100 100 100 100 100 100 100	402 856 878 667 667 364 61 0 0 0 0 0 0 0 0 0 0 0 0 0	6.74 6.74 6.74 6.74 6.74 6.74 6.74 6.74	COMPRIGATE THROUGH REP FOOT OF THROUGH REP RIG UP AND THAT DOWN. RIG UP AND THAT DOWN. RIGHT HERICAGE SHEET RICH HARITAGE SHEET SHEET RICH HARITAGE SHEET SHEET RICH HARITAGE SHEET RICH HARIT	100 PODH with 37 J/2 File to Bit on 5 J/6 Of Poth and Bit on 16 Am. Compensation through Bit Of wind independent with 17 J/2 File to Bit and 3/f scrape, No. Compensation through Bit Of wind design of the 17 J/2 File to Bit and 3/f scrape, No. 100 PODH with reduced speed with 3/f scrape on 5 J/6 File Poth Bit on 16 All 20 Am. 101 Poth July added 17 J/2 Of Intellige and 2 Y supper on 17 J/6 File Poth 3/f scrape on 16 J/6 File Poth 3/f scrape on 18 J/6 File Poth 3/f scrape on 10 J/6 File Poth 3/f scrape on 17 J/6 File Poth 3/f scrape on 10 J/6 File Poth 3	\$\(\text{SQ114-02} \) AM \$\(SQ114-02
14-apr 10 Desposa Atlantic	09:15 09:05 09:05 08:45 09:05 08:15 07:30 07:30 08:45 07:30 08:45 08:35 08:25 08:15 09:45 09:35 09:10 09:45 09:35 09:10 09:35	09:55 09:25 09:15 09:15 09:15 09:06 08:50 08:80 08:80 08:80 09:35 07:05 07:06 08:40 07:05 07:06 08:40 08:15 07:06 08:15 07:06 08:15	100 101 103 103 105 105 105 105 105 106 107 107 108 109 109 109 109 109 109 109 109 109 109	402 856 856 667 402 364 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6,74 (6,08 1 1 6,07 1 6,07 1 1,04 6,07 1 6,07 6,74 6 7,73 6 1 1,13 1 1,14 1 1,15	COMPRISATE THROUGH REP FOR CONTROL OF THROUGH REP BIG UP AND THAN DOWN. BIF OF HER CHEEKER SHEET BIF OF HE CHEEKER SHEET BIF OF HER CHEEKER SHEET BIF OF HER CHEEKER SHE	100 PODH with 37 J/2 File to Bit on 5 J/6 Of Poth and Bit on 16 Am. Compensation through Bit Of wind independent with 17 J/2 File to Bit and 3/f scrape, No. Compensation through Bit Of wind design of the 17 J/2 File to Bit and 3/f scrape, No. 100 PODH with reduced speed with 3/f scrape on 5 J/6 File Poth Bit on 16 All 20 Am. 101 Poth July added 17 J/2 Of Intellige and 2 Y supper on 17 J/6 File Poth 3/f scrape on 16 J/6 File Poth 3/f scrape on 18 J/6 File Poth 3/f scrape on 10 J/6 File Poth 3/f scrape on 17 J/6 File Poth 3/f scrape on 10 J/6 File Poth 3	\$20714-02-24M \$2

13-apr-19 Deepsea Atlantic 13-apr-19 Deepsea Atlantic	19:15 19:00	20:45 19:15	90 15	150 221	6,11 LAY DOWN BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 down. Racked back 8" DC. Pulled spear and CSG cut. 100 Prejobmeeting prior to L/D spear BHA and Powertool.	35/11-8-12 AH 35/11-8-12 AH
3-apr-19 Deepsea Atlantic	18:45	19:00	15	221	6,11 LAY DOWN BHA	non Rank hank 8" DC stand	35/11-8-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	18:40 18:30	18:45 18:40	5 10	272	6,33 CHANGE HANDLING EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Remove powerslips. Change from 5-7/8" to 6-5/8" inserts in BX elevator. 100 Held prejobmeeting prior to L/D fishing BHA.	35/11-B-12 AH 35/11-B-12 AH
3-apr-19 Deepsea Atlantic	18:15	18:30	15	291	1 RIG UP AND TEAR DOWN.	Remove RKB and remove plate and 2 x wipers under RKB. P/U double 5-7/8" DP from 100 RCWM. L/D XD.	35/11-B-12 AH
8-apr-19 Deepsea Atlantic	17:45	18:15	30	291	19,01 FISHING, OTHERS	POOH with 14" casing fish and BHA from 707 m to 291 m on 5-7/8" DP. Observe overpull 100 peaks due to jacks, reduce pulling speed.	35/11-B-12 AH
apr-19 Deepsea Atlantic	17:30	17:45	15	707	6,41 FLOW CHECK	100 Flowcheck well for 10 min prior to pull non-shearable through BOP. Well static. 100 POOH with 14" casing fish and BHA from 897 m to 707 m on 5-7/8" DP.	35/11-8-12 AH
-apr-19 Deepsea Atlantic	17:15	17:30	15	707	19,01 FISHING, OTHERS	100 POOH with 14" casing fish and BHA from 897 m to 707 m on 5-7/8" DP. Installed plate and wiper under RKB. Had to have AHC activated during pumping of slug due	35/11-B-12 AH
apr-19 Deepsea Atlantic	17:00 16:45	17:15 17:00	15 15	897 897	1 RIG UP AND TEAR DOWN.	installed plate and wiper under RKB. Had to have AHC activated during pumping of slug due 100 to jacks being activated in 20° casing when diff pressure.	35/11-B-12 AH 35/11-B-12 AH
-apr-19 Deepsea Atlantic -apr-19 Deepsea Atlantic	16:30	16:45	15	897	6,41 FLOW CHECK	100 Pump 8,5 m3 with 1,56 sg OBM and displace lines with 3 m3. 100 Flowcheck well for 10 min - well static.	35/11-B-12 AH 35/11-B-12 AH
-apr-19 Deepsea Atlantic	16:20	16:30	10	897	19,01 FISHING, OTHERS	100 Burst rupture disc with 345 bar with cement unit.	35/11-B-12 AH
l-apr-19 Deepsea Atlantic	14:35	16:20	105	897	19,01 FISHING, OTHERS	Connect To Coppa power According to Balan Assembled to put if a "Circ fine with suppose increase in hookstad of 10-16 for in Norborad Attempt to pull rup and from 150 to to 10-16 for the control of the control of t	35/11-8-12 AH
						Fill pipe and check pipe not plugged. Meanwhile held prejob prior to land and pull 14" CSG in	
-apr-19 Deepsea Atlantic	14:25	14:35	10	779 779	6,4 FILL PIPE	100 OH. Drop 1·1/8" ball. 100 RiH with full bore 17·1/4" HPT anchor from 136m to 779m. Comp. trough BOP.	35/11-B-12 AH 35/11-B-12 AH
8-apr-19 Deepsea Atlantic	13:40	14:25	45	7/9	6,75 TRIPPING RISER WITH FULL BORE TOOLS	Cont. P/ U from RCW. P/ U HPT power section, HPT anchor, 8" Drilling jar, 1 STD 8" DC and	35/11-B-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	12:00 11:30	13:40 12:00	100	136	6,1 MAKE UP BHA 6,1 MAKE UP BHA	100 XO, LD dobbel and RIH with same. 100 Change to 6-5/8" inserts. P/U Spear and RIH with 8" DC STD.	35/11-8-12 AH 35/11-8-12 AH
3-apr-19 Deepsea Atlantic	11:15 11:00	11:30 11:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38.01 CLEAN AND CLEAR RIGFLOOR	100 Held prejobb meeting prior to run in and pull 14" CSG in OH.	35/11-8-12 AH 35/11-8-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	10:50	11:15	10	0	6,11 LAY DOWN BHA	100 Clean and clear rig floor prior for next Operation. 100 Rack back wash stand in derrick.	35/11-B-12 AH 35/11-B-12 AH
3-apr-19 Deepsea Atlantic	10:40	10:50	10	39	12,13 SEAL ASSY / WEAR BUSHING	100 POOH with MPT and L/D to RCWM. POOH with MPT and wash stand from 360 m to 50 m with reduced speed. Pull with wiper on	35/11-B-12 AH
3-apr-19 Deepsea Atlantic	10:15	10:40	25	50	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 top of slips - fell off several times.	35/11-B-12 AH
3-apr-19 Deepsea Atlantic	10:10	10:15		360	6,74 COMPENSATE THROUGH BOP	100 Compensate out of BOP with wash stand. Record unweight 75 top, downweight 74 top, RIH and land NRP with 10 top, release NRP	35/11-B-12 AH
3-apr-19 Deepsea Atlantic	09:50	10:10	20	390	12,13 SEAL ASSY / WEAR BUSHING	Record upweight 76 ton, downweight 74 ton. RIH and land NBP with 10 ton, release NBP 100 with 6 ton overpull. Compensate out of 80P.	35/11-B-12 AH
3-apr-19 Deepsea Atlantic	09:30	09:50	20	390	6,22 WASH DOWN	Connect TD. Activate AHC. Wash setting area with 2500 lpm - 25 bar for 10 min. RIH and 100 disconnect TD.	35/11-8-12 AH
I-apr-19 Deepsea Atlantic	09:20 08:55	09:30	10	360 50	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 RIH with 18-3/4" NBP on 5-7/8" DP from 50 m to 360 m.	35/11-B-12 AH 35/11-B-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	08:45	08:55	10	39	12,13 SEAL ASSY / WEAR BUSHING 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 P/U 18-3/4" NBP and MUT, check and RIH with same. 100 Held SIA meeting prior to P/U premade 18-3/4" NBP to MUT.	35/11-B-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	08:35 08:20	08:45 08:35	10 15	39 0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Transfer wash STD from derrick and RIH with same. 100 Held prejob meeting prior to next operation.	35/11-8-12 AH 35/11-8-12 AH
3-apr-19 Deepsea Atlantic	08:15	08:20	5	0	12,12 RIG DOWN CASING/LINER EQUIPMENT	100 High governmenting prior to next operation. 100 Righdown casing equipment. Remove PMS and change from BX-3 to BX-4. 100 Clean and clear rightion prior to next operation.	35/11-B-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	07:50 07:40	08:15	25 10	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear rig floor prior to next operation. 100 Held debrief after POOH with 14" cacino	35/11-B-12 AH
3-apr-19 Deepsea Atlantic	07:00	07:40	40	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 12,05 PULL CASING IN CASED HOLE	100 Held debrief after POOH with 14" casing. 100 Cont. POOH with 14" from 246m to RKB. R/B CSG cut. Casing cut approx 6 m.	35/11-B-12 AH 35/11-B-12 AH
						POOH with 14 ° CSG. Broke out and racked back 1 stand 14° CSG. Not able to break connection on next stand with CSG tong. OWS increased pressure on CSG tong to max. No go	
	_					. Changed break point on 14" CSG. Broke out and racked back double. Continued POOH with	
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	05:10 04:50	07:00 05:10	110 20	246 410	12,05 PULL CASING IN CASED HOLE 12,05 PULL CASING IN CASED HOLE	100 14" CSG. 100 Broke out and laid down 14" CSG hanger.	35/11-8-12 AH 35/11-8-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	04:20	04:50 04:20	30 40	410 413	12,11 RIG UP CASING/LINER EQUIPMENT 6,33 CHANGE HANDLING EQUIPMENT	100 Adjusted wheels on CSG tong. 100 Changed to 14" handling equipment. Changed from BX-4 to BX-3 elevator.	35/11-B-12 AH 35/11-B-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	03:40	04:20	40 20	413	6,33 CHANGE HANDLING EQUIPMENT 6,11 LAY DOWN BHA	100 Released snear according to Baker instruction and laid down same to RCWM	35/11-B-12 AH 35/11-B-12 AH
3-apr-19 Deepsea Atlantic	02:30	03:20	50	413	12,11 RIG UP CASING/LINER EQUIPMENT	Removed bushings and master bushing. Pulled 14 CSG hanger through rotary. Installed FMS. 100 Rigged up control panels for CSG tong.	35/11-B-12 AH
3-apr-19 Deepsea Atlantic	02:10	02:30	20	413		100 Broke out and laid down bumper sub and 5 7/8 DP sgl.	35/11-B-12 AH
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	02:00 01:30	02:10 02:00	10 30	430 430	25,3 PREJOBMEETING - BRIEF/DEBRIEF 12,14 LAND/PULL CSG ON LANDING STRING	100 Prejobmeeting for Rig up 14 CSG equipment and release spear. 100 POOH with 14" CSG from 774 m to 430 m on 5 7/8 HWDP.	35/11-8-12 AH 35/11-8-12 AH
3-apr-19 Deepsea Atlantic	01:00	01:30	30	774	6,04 PUMP SLUG	100 Pumped 10 m3 1,56 SG slug and displaced same.	35/11-B-12 AH
3-apr-19 Deepsea Atlantic	00:45	01:00	15	381	6,41 FLOW CHECK	100 Flowcheck	35/11-B-12 AH
					12,14 LAND/ PULL CSG ON LANDING STRING	Took up/down weight 84/83 ton. Landed out stop sub and engaged spear according to 100 Baker. Closed UAP and pulled free 14" CSG with 134 ton hook load. Opened UAP.	
3-apr-19 Deepsea Atlantic 3-apr-19 Deepsea Atlantic	00:30 00:00	00:45 00:30	15 30	383 360	6,1 MAKE UP BHA	100 RH on 5 7/8 Hwdp from 100 m to 360 m.	35/11-8-12 AH 35/11-8-12 AH
2-apr-19 Deepsea Atlantic	23:30	00:00	30	100	6,1 MAKE UP BHA	100 P/U and made up Taper mill/spear assy, 1 sgl 5 7/8 DP and bumper sub. RIH on 5 7/8 HWDP.	25/11.0.12 AU
2-apr-19 Deepsea Atlantic	23:15	23:30	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrif after L/D SA. Projokmeeting for build 14" spear assy. 100 Cleaned and cleared driffloor.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	23:00	23:15	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Cleaned and cleared driffloor. Compensated through BOP with SA. Disconnected TD from string. PODH with SA on 5 7/8 DF	35/11-B-12 AH
						used mudbucket. Broke out and laid down MPT and SA. Broke out and laid down Cup assy.	
2-apr-19 Deepsea Atlantic	21:30	23:00	90	440	12,13 SEAL ASSY / WEAR BUSHING	100 Aker inspected tool.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	17:45	21:10	205	440	12,13 SEAL ASSY / WEAR BUSHING	BRY HEID, AGE of they and sell inching beginning the control and text page of the page 15 to be that the page of deep 31 to 30 to 3	35/11-8-12 AH
12-apr-19 Deepsea Atlantic	17:15	17:45	30	337	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Held pre-jobb meeting prior to pull seal assy with involved personel. 100 RIH with pack of assy and seal retriving tool from 61m to 337m.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	17:00	17:15	15	337	6,75 TRIPPING RISER WITH FULL BORE TOOLS	P/ U from RCW spear pack off assy and RIH with same on 1 STD 5 7/8" DP and P/ U Aker seal	35/11-B-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	16:30 16:15	17:00 16:30	30 15	61	6,1 MAKE UP BHA 25.3 PREJOBMEETING - BRIEF/DEBRIEF	100 retriving tool from RCW, inspect and run same trough RKB.	35/11-8-12 AH 35/11-8-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	16:00	16:15	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Held prejob meeting prior to next run. 100 Clean and clear rig floor prior to next run.	35/11-8-12 AH 35/11-8-12 AH
2-apr-19 Deepsea Atlantic	15:25	16:00	35	0	6,11 LAY DOWN BHA	Pull 13 3/8" WB/ MUT above RKB and releace WB and L/ D same. Pull MUT above RKB and 100 L/ D same. Pull wash STD above RKB and R/ B same.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	15:05	15:25	20	14	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with 13 3/8" WB/ MUT on 5 7/8" DP from 365m to 14m.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	14:25	15:05	40	365	12,13 SEAL ASSY / WEAR BUSHING	Run in and sat down 10T on 13 3/8" WB and pulled free WB with 27 OP. Pull 1 STD and R/B 100 and same, conected top drive to string and wash with jet-sub in WH-area for 10 minutes.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	14:10	14:25	15	365	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 RIH with MUT on 5 7/8" from 14m to 365m.	35/11-8-12 AH
2-apr-19 Deepsea Atlantic	13:50	14:10	20	14	6,1 MAKE UP BHA	100 RIH with wash std from derrick. Pick up MUT from catwalk and M/U same to string.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	13:35	13:50	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Preejob meeting before RiH with MUT.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	13:20 13:10	13:35 13:20	15 10	0	38,01 CLEAN AND CLEAR RIGFLOOR 6,11 LAY DOWN BHA	100 Clean and clear drilffor. Meanwhile flush kill and choke line. 100 Lay down cut assy to catwalk.	35/11-8-12 AH 35/11-8-12 AH
2-apr-19 Deepsea Atlantic	12:30	13-10	40	30	6,01 POOH CH	100 POOH with 14" cutter assy on 5-7/8" DP from 797 m to 30 m. Compensate through BOP.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	12:15	12:30	15	30 797	6,04 PUMP SLUG	100 Pump 4 m3 with 1,56 sg slug and displace surfacelines with 3 m3.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	12:00	12:15	15	797	6,41 FLOW CHECK	100 Flowcheck well after cut of 14" Well static. Meanwhile install plate and 2 x wipers under RKB	35/11-8-12 AH
						Connect TD. Position cutter at 797m. Record upweight 87 ton, downweight 85 ton. Freetorque 2 kNm. Cut casing with 100 rpm / 4-20 kNm, 1000 lpm / 40 bar. Observed	
2-apr-19 Deepsea Atlantic	11:30	12:00	30	797	12,3 CUT CASING	pressuredrop and heard casing drop. Continue to cut for 5 min. Verify cut with pressure - ok. 100 Casing dropped approx 0,30 m.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	11:15	11:30	15	797	6,08 POOH CH reduced speed	100 POOH with 14" cutter on 5-7/8" DP from 958 m to 797 m. Use mudbucket.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	11:00	11:15	15	958	6,41 FLOW CHECK	100 Flow check well. Well statick. Ok. Connect TD. Position cutter at 958 m. Record upweight 90 ton, downweight 87 ton.	35/11-B-12 AH
						Freetorque 2 kNm. Fill pipe with 1,26 sg OBM at cutter position. Cut casing with 100 rpm / 4 20 kNm. 1000 lpm / 40 bar. Observed pressuredrop. Continue to cut for 5 min. Verify cut	
2-apr-19 Deepsea Atlantic	10:00	11:00	60	958	12,3 CUT CASING	nn with pressure - pk.	35/11-8-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	09:15 08:55	10:00 09:15	45 20	913 11	6 RIH CH 6.1 MAKE UP BHA	100 RIH with 14" Cutter on 5 7 /8" DP from 11m to 913m. Comp. through BOP. 100 P/U and M/U up 14" cutter assy.	35/11-8-12 AH 35/11-8-12 AH
2-apr-19 Deepsea Atlantic	08:40	08:55 08:40	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6.11 LAY DOWN BHA	100 Held prejob meeting prior to run in with 14" cutter. 100 Lay down 10-3/4" spear from derrick.	35/11-8-12 AH 35/11-8-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	08:30 08:15	08:40 08:30	10 15	0	6,11 LAY DOWN BHA 38,01 CLEAN AND CLEAR RIGFLOOR	100. Clean and clear drifffoor	35/11-8-12 AH 35/11-8-12 AH
2-apr-19 Deepsea Atlantic	07:45	08:15	30	0	6,11 LAY DOWN BHA	Remove plate and 2 x wipers under RK8. P/U double 5-7/8" from RCWIM and R/8 1 stand 5- 100 7/8" DP, I/D driftsub with drift inside, I/D EZSV running tool to RCWIM.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	07:00	07:45	45	20	6,01 POOH CH	100 POOH with EZSV running tool from 990m 20m. Compensate through BOP.	35/11-8-12 AH 35/11-8-12 AH
P-apr-19 Deepsea Atlantic	06:45	07:00	15	990	6,04 PUMP SLUG	Pumped 6 m3 stug 1,56 5G and displaced same. Meanwhile installed wiper and plate in 100 rotary. Connected TD. Positioned 14" EZSV plug at 997 m. Took up/down weight 89/86 forn. Established flow to 700 Jpm/15 bar. Moved string up/down past setting depth for 5 min. Sat	35/11-8-12 AH
2-apr-19 Deepsea Atlantic	06:10	06:47		997	12.88 SET/RELASE MECH PLUGS	14" EZSV plus according to procedure at 997 m. Pulled free RT with 25 ton Op., Pulled up 5	35/11-B-12 AH
z-apr-19 Deepsea Atlantic	05:30	06:45 06:10	35 40	997 970	6.07 RIH CH Reduced speed	100 m, ran slowly down and sat down 10 ton and verified plug sat. 100 RIH from 398 m to 970m with reduced speed 1,33 min/stand according to DOP.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	05:25 05:05	05:30 05:25	5 20	398 360	6,74 COMPENSATE THROUGH BOP 6.07 RIH CH Reduced speed	100 Compensated through BOP. 100 Rith with 14" EZSV plug from 24 m to 360 m.	35/11-B-12 AH 35/11-B-12 AH
2-apr-19 Deepsea Atlantic		05:05	10	360 24	6,31 L/D DRILLSTRING	100 Broke out and laid down double on stand 1# for space out BOP.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	04:55	04:55	10	6		100 Changed to 5 7/8 auto slips and installed auto pipe doper.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	04:45		30	6	6.1 MAKE UP BHA	100 Made up 14" EZSV plug to RT. Made came on to stand #1 with driftsoh	35/11-B-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	04:45 04:15	04:45	30	6	6,1 MAKE UP BHA	100 Made up 14" EZSV plug to RT. Made same up to stand #1 with driftsub. Performed debrif after 12 1/4" BHA and prejobmeeting prior to make up 14 EZSV plug to RT	35/11-8-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	04:45			0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	Performed debrif after 12 1/4" BHA and prejobmeeting prior to make up 14 EZSV plug to RT 100 and RiH with same. 100 Cleaned and cleared drifftoor.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
12-apr-19 Deepsea Atlantic 12-apr-19 Deepsea Atlantic	04:45 04:15	04:45	30 15		6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	Performed debrif after 12 1/4" BHA and prejobmeeting prior to make up 14 EZSV plug to RT 100 and RIH with same.	35/11-8-12 AH

12-apr-19 Deepsea Atlantic 12-apr-19 Deepsea Atlantic	02:15 01:55	02:25 02:15	10 20	400	6,74 COMPENSATE THROUGH BOP 6,01 POOH CH	100 Compensated through BOP. 100 POOH from 808 m to 400 m.	35/11-B-12 AH 35/11-B-12 AH
12-apr-19 Deepsea Atlantic 12-apr-19 Deepsea Atlantic	01:45 00:50	01:55 01:45	10	808 808	6,41 FLOW CHECK 6,01 POOH CH	100 Flow checked well prior to pull BHA through BOP. 100 POOH from 1790 m to 808 m. Training with new personel while tripping.	35/11-B-12 AH 35/11-B-12 AH
2-apr-19 Deepsea Atlantic	00:25	00:50	25	1790	6,04 PUMP SLUG	100 Pump 6 m3 slug, 1,55 sg.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	00:10	00:25	15	1790	6,41 FLOW CHECK	100 Flow check well and install 2 wipers in rotary. Circulate hole clean with 3500 lpm/135 bar and 50 rpm. Reciprocated string slowly while	35/11-8-12 AH
2-apr-19 Deepsea Atlantic	00:00	00:10	10	1795	5,01 CIRCULATE HOLE CLEAN	100 circulating.	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	23:15	00:00	45	1818	5,01 CIRCULATE HOLE CLEAN	Circulated 1 B/U with 3500 lpm/135 bar and 50 rpm. Reciprocated string slowly while 100 circulating.	35/11-8-12 AH
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						Increased to 2400 lpm/ 69 bar and 50 rpm and continued wash down from 1818 m to 1827	
11-apr-19 Deepsea Atlantic	22:45	23:15	30	1827	6,22 WASH DOWN	m with 100 m/h observed increasing WOB from 2-4 ton. Tagged cement with 10 ton with 100 400 lpm and no rotation.	35/11-8-12 AH
						Connected TD. Filled pipe. Washed down from 1754 m with 200 m/h ,350 lpm/4 bar, 30	
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	22:00 21:45	22:45 22:00	45 15	1818 1754	6,22 WASH DOWN 3,01 WAIT ON CEMENT	100 rpm/6 kNm and 0-2 t WOB. At 1818 m WOB increased to 5 ton. 97 Waited on cement. RIH from 1678 m to 1754 m with reduced speed.	35/11-8-12 AH 35/11-8-12 AH
						Wait on cement. Meanwhile connect TD and fill pipe. General maintenance on drillfloor. Pressuretest standpipemanifold to 20 bar/5 min and 345 bar/10 min. Perform NDT check	
						according to IFS. Climbers in derrick work with yearly certification of lifting equipment and	
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	17:20 16:35	21:45 17:20	265 45	1678 1 1678	3,01 WAIT ON CEMENT 6 RIH CH	97 installing new pull system for aux hang-off line. DROPS on HRs. 100 RIH with 12-1/4" rock bit on 5-7/8" DP from 732 m to 1678 m.	35/11-8-12 AH 35/11-8-12 AH
						Observed pipe slide approx 20 cm in slips. Engange elevator and inspect slips and DP. Check 100 for correct dies. No foundings - everything ok.	
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	16:20 16:05	16:35 16:20	15 15	732 732	6,15 CHECK OF HANDLING EQUIPMENT 6 RIH CH	100 for correct dies. No foundings - everything ok. 100 RIH with 12-1/4" rock bit on 5-7/8" DP from 400 m to 732 m.	35/11-B-12 AH 35/11-B-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	16:00 15:35	16:05 16:00	5 25	400 362	6,74 COMPENSATE THROUGH BOP 6,1 MAKE UP BHA	100 Compensate through BOP with 12-1/4" rock bit on 5-7/8" HWDP from 362 m to 400 m. 100 RIH with 12-1/4" rock bit on 5-7/8" HWDP from 22 m to 360 m.	35/11-8-12 AH 35/11-8-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	15:00 14:45	15:35 15:00	35 15	0	6,1 MAKE UP BHA 25.3 PREJOBMEETING - BRIEF/DEBRIEF	100 P/U 12-1/4" rock bit assy, M/U XO and M/U jar assy. Prepare powerslips and pipedoper. 100 Held preiob meeting prior to run in with 12 1/4" rock bit.	35/11-B-12 AH 35/11-B-12 AH
11-apr-19 Deepsea Atlantic	14:30	14:45	15	0 3	8,01 CLEAN AND CLEAR RIGFLOOR	100 Held prejob meeting prior to run in with 12 1/4" rock bit. 100 Clean and clear rig floor prior to run in hole with 12-1/4" rock bit.	35/11-B-12 AH
						P/U double 5-7/8" DP from RCWM and insert to drillstring. Remove plate and 2 x wipers under RKB. L/D driftsub. 4-1/8" drift found in driftsub. Remove bushings and L/D EZSV	
11-apr-19 Deepsea Atlantic	13:45	14:30	45	0	6,11 LAY DOWN BHA	100 running tool.	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	13:00	13:45	45	20	6,01 POOH CH	100 POOH with EZSV running tool on 5-7/8" DP from 1269 m to 20 m. Compensate through BOP.	35/11-B-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	12:45 12:15	13:00 12:45	15 30	1269 1269	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,01 PODH CH	100 Held debrief with crew. Discuss how to optimize tripping. Meanwhile change powerslips. 100 POOH with EZSV running tool on 5 7/8" DP from 1778m to 1259m.	35/11-8-12 AH 35/11-8-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	12:00 11:45	12:15 12:00	15 15	1778 1778	6,04 PUMP SLUG 6,41 FLOW CHECK	100 Line up and pump 5 m3 1,56 sg OBM slug. Meanwhile install plate and 2 x wipers under RKB. 100 Flow check well. Well statick. Ok.	35/11-B-12 AH 35/11-B-12 AH
						Install 1 ea wiper ball. Connect TD. Circulate 1 x B/U with 2500 lpm / 50 bar, 40 rpm / 4	
11-apr-19 Deepsea Atlantic	10:15	11:45	90	1778	S CIRCULATE AND CONDITION MUD	100 kNm. Total pumped 10091 stroke. POOH with EZSV RT on 5-7/8" DP from 2058 m to 1778 m. Rack back cementstand and L/D	35/11-8-12 AH
11-apr-19 Deepsea Atlantic	09:45	10:15	30	1778	6,08 POOH CH reduced speed	100 singel DP. POOH with 2,5 min/stand.	35/11-B-12 AH
						Verify cement lineup with 10 bar. Mix and pump 22,1 m3 with 1,93 sg cement slurry. Disconnect cementhose. Zero strokecounters. Displace cement with 1,26 sg OBM with 2500	
						Ipm / 53 bar. Rotate with 40 rpm. Catch up cement after 750 strokes. Total pumped 1090	
11-apr-19 Deepsea Atlantic	08:50	09:45	55	2058	3,02 PUMP CMT	100 strokes. Pump 12,4 m3 with 1,65 sg spacer. Set 50 bar on auto KC. Line up MP for pumping 1,26 sg	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	08:30	08:50	20	2058	3,02 PUMP CMT	100 OBM.	35/11-B-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	08:15 08:00	08:30 08:15	15 15	2058	13 RIG UP AND DOWN CEMENT EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Install CMT hose and preform line test to 100 bar - ok. 100 Held prejob meeting prior to rig up for cement job and pump cement.	35/11-8-12 AH 35/11-8-12 AH
						Pull out with 1 stands and transfer CMT STD from setback and run in on setting depth of CMT	
11-apr-19 Deepsea Atlantic	07:45	08:00	15	2058	6,1 MAKE UP BHA	100 plug at 2058 m. Connect topdrive. RIH to 2058 m. Wash 5 m below and 5 m above 14" EZSV plug settling	35/11-B-12 AH
						area at 2062 m with 800 lpm / 12 bar. Record upweight 114 ton, downweight 100 ton. Set	
						plug at 2062 m bottom plug. Set plug with 37 turns CW rotation according to Baker. Pull up	
11-apr-19 Deepsea Atlantic	07:15	07:45	30	2062 1	2,88 SET/RELASE MECH PLUGS	and release from plug with 29 ton overpull. Pick up 5 meters and retag plug at 2062 m with 5 100 ton.	35/11-B-12 AH
						Changed in tally due to new setting depth for setting 14 "EZSV plug. P/U singel 5-7/8" DP 100 from RCWM instead of L/D double.	
11-apr-19 Deepsea Atlantic	06:45	07:15	30	2030	6,3 P/U DRILLSTRING	RIH with 14" EZSV plug with reduced speed 1,3 min /stand according to DOP from 405m to	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	04:55	06:45	110		6,07 RIH CH Reduced speed	100 2030 m.	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	04:45	04:55	10	405	6,74 COMPENSATE THROUGH BOP	100 Compensated through BOP with 14" EZSV plug. RIH with 14" EZSV plug with reduced speed 1,3 min /stand according to DOP from 24 m to	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	04:30	04:45	15		6,07 RIH CH Reduced speed	100 365 m.	35/11-B-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	04:20	04:30 04:20	10 15		6,31 L/D DRILLSTRING 6.33 CHANGE HANDLING EQUIPMENT	100 Broke out and laid down double on stand #1 for space out BOP. 100 Installed 5 7/8 autoslips and auto pipe doper.	35/11-8-12 AH 35/11-8-12 AH
						Made up drift sub to stand #1 . Picked up RT for EZSV plug and made up same to	
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	03:15	04:05 03:15	50 15	6	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 driftsub/stand #1. Made up EZSV plug to RT. 100 Debrif after rig down wireline. Prejob for RIH with 14 EZSV plug.	35/11-B-12 AH 35/11-B-12 AH
11-apr-19 Deepsea Atlantic	02:15	03:00	45	0 1	1,02 RIG UP OR DOWN FOR WIRELINE	97 Rigged down toolstring and wireline equipment.	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	02:00	02:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Projobmeeting to rig down wireline equipment. RIH with WL logging string to 2068 m and log for Fm bonding in green clay and Lista shale,	35/11-B-12 AH
11-apr-19 Deepsea Atlantic	00:00	02:00	120	0 1	1,01 WIRE LINE LOGGING	97 log for barite settling at 20" csg shoe and log for gas below seal assy.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	17:45	00:00	375		1,01 WIRELINE LOGGING		35/11-B-12 AH
10-apr-19 Deepsea Atlantic	16:45	17:45	60	0 1	1,02 RIG UP OR DOWN FOR WIRELINE	97 log for barite settling at 20" csg shoe and log for gas below seal assy. 97 Rig up toolstring and sheavs for WL Surfacetest of tools.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic 10-apr-19 Deepsea Atlantic	16:30 16:15	16:45 16:30	15 15		25,3 PREJOBMEETING - BRIEF/DEBRIEF 1,02 RIG UP OR DOWN FOR WIRELINE	100 Hold prejobmeeting prior to rig up and run WL. 97 Install shackle sub in elevator. Lift wireline assys from deck to RCWM.	35/11-B-12 AH 35/11-B-12 AH
10-apr-19 Deepsea Atlantic	16:00	16:15	15		8,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear drillfloor.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	15:20	16:00	40	0	6.11 LAY DOWN BHA	100 Rack back iar and double magnet assy in derrick. L/D 14" drift and scrape assy to RCWM.	35/11-B-12 AH
						POOH with 14" drift assy with 5-7/8" HWDP from 360 m to 37 m. P/U singel from RCWM.	
10-apr-19 Deepsea Atlantic 10-apr-19 Deepsea Atlantic	14:55 14:50	15:20 14:55	25		6,11 LAY DOWN BHA 6,74 COMPENSATE THROUGH BOP	100 Meanwhile held prejobmeeting for L/D BHA. 100 Compensate BOP.	35/11-8-12 AH 35/11-8-12 AH
10-apr-19 Deepsea Atlantic	14:20	14:50	30	398	6,01 POOH CH	100 Continue POOH from 890 m to 398 m.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	12:50	14:20	90	890	8,01 MECHANICAL REPAIRS	Troubleshoot mud lopp guide system. Broken wire inside guidesystem. Remove guide ring 0 and secure same.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	12:35	12:50	15	890	6,41 FLOW CHECK	100 Flowcheck well 10 min. Well static.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic 10-apr-19 Deepsea Atlantic	12:00 11:30	12:35 12:00	35 30	890 1571	6,01 POOH CH 6,01 POOH CH	100 Continue POOH from 1571 m to 890 m. 100 POOH from 2068 m to 1571 m.	35/11-B-12 AH 35/11-B-12 AH
10-apr-19 Deepsea Atlantic	11:15	11:30	15	2068	6,04 PUMP SLUG	100 Pump 5 m3 1,56 sg OBM slug.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	11:00	11:15	15	2068	6,41 FLOW CHECK	100 Flowcheck well. Well static. Meanwhile install wiper and remove aut doper. Fill string and establish circulation up in steps to 5200 lpm - 228 bar. Total pumped 12000	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	09:30	11:00	90	2068	5 CIRCULATE AND CONDITION MUD	100 strokes.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	08:30	09:30	60	2065	6,07 RIH CH Reduced speed	Cont RIH from 891m to 2065m with reduced speed due to possability of oval casing. Change 100 T/T @ 09:00AM. Up weight 103 ton - down weight 86 ton.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	07:55	08:30	35	891	6 RIH CH	100 Cont RiH from 398m to 891m	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	07:45	07:55	10	398	6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP from 361m to 391m. Change T/T. Meanwhile calibrated HT main.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	07:00	07:45	45	361	6,82 RIH with BHA	100 Comparisate or cognition from 35 time 35 time 35 time. Change (1): Meanwrite calculated in main. 100 RH with 5-7/8 th/OP. L/D signed on first stand 5-7/8" th/OP. Pick up junk mill from catwalk. RH with magnet assy from derrick. Change to aux HR due to	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	06:15	07:00	45	37	6.1 MAKE UP BHA		35/11-B-12 AH
10-apr-19 Deepsea Atlantic	06:00	06:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Held prejob meeting prior to run 14" drift run.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic 10-apr-19 Deepsea Atlantic	05:45 05:20	06:00 05:45	15 25	0	8,01 CLEAN AND CLEAR RIGFLOOR 6.11 LAY DOWN BHA	100 Clean and clear rig floor prior to run 14" drift run. 100 L/D MUT to RCW and R/B wash STD to setback.	35/11-B-12 AH 35/11-B-12 AH
10-apr-19 Deepsea Atlantic	04:50	05:20	30	58	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with MUT from 323m to 58m. Use winer on ton of clins	35/11-B-12 AH
						Connect topdrive to string and wash WH area with 2500 lpm / 25 bar, no rotation. Connect topdrive on last stand. Record upweight 75 ton, downweight 74 ton. Run in and land 13-3/8"	
10-apr-19 Deepsea Atlantic	04:10	04:50	40	323 1	2,13 SEAL ASSY / WEAR BUSHING	toparries on last stand. Necord upweight /5 ton, downweight /4 ton. Nun in and land 13-3/8" 100 Win WH, pull free with 9 t O Prom 58m to 323m. 100 RIH with 13 3/8" WB on 5-7/8" DP from 58m to 323m.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	03:50	04:10	20		6,75 TRIPPING RISER WITH FULL BORE TOOLS	Transfer wash STD from setback to well center and RIH with same. P/U 13 3/8" WB and P/U	35/11-B-12 AH
10-apr-19 Deepsea Atlantic	03:20	03:50	30		2,13 SEAL ASSY / WEAR BUSHING	100 MUT from RCW and install 13 3/8" WB to MUT and RIH with same.	35/11-B-12 AH
10-apr-19 Deepsea Atlantic 10-apr-19 Deepsea Atlantic	03:15 02:45	03:20 03:15	5 30		2,12 RIG DOWN CASING/LINER EQUIPMENT 8,01 CLEAN AND CLEAR RIGFLOOR	100 Change from BX-3 to BX-4 elevator, remove FMS and park 10-3/4" casing tong, 100 Clean and clear driffloor after POOH with modified wiper on top of FMS.	35/11-8-12 AH 35/11-8-12 AH
						Held debrief with crew after POOH with 10-3/4" tie-back and held prejob for rig down casing	
10-apr-19 Deepsea Atlantic 10-apr-19 Deepsea Atlantic	02:30 02:20	02:45 02:30	15 10		25,3 PREJOBMEETING - BRIEF/DEBRIEF 2.05 PULL CASING IN CASED HOLE	100 equipment. 100 L/D 6 m with 10-3/4" cut joint to RCWM.	35/11-8-12 AH 35/11-8-12 AH
	02.20	34.30			ages a see as self of the Challe Hotel		
	00-00	02:20	140		2,05 PULL CASING IN CASED HOLE	POOH with 10-3/4" tie-back casing from 1340 m to 6 m. Rack back double on last stand. 100 Meanwhile start to pressuretest choke manifold to 20 bar/5 min and 300 bar/10 min.	35/11-B-12 AH
	00:00 23:20	00:00	40	1340 1	2,05 PULL CASING IN CASED HOLE	100 POOH with 10-3/4" CSG from 1664m to 1340m.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	22:50	23:20	30	1664	12,9 PICK UP AND MAKE UP CASING HANGER	100 P/U and L/D 10-3/4" hanger to RCWM.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	22:45	22:50	5		2,11 RIG UP CASING/LINER EQUIPMENT	100 Rig up casingequipment. Change elevator from BX-4 to BX-3. Casingtong ready on drillfloor.	35/11-B-12 AH
29-apr-19 Deepsea Atlantic 29-apr-19 Deepsea Atlantic 29-apr-19 Deepsea Atlantic		22:45	15	1673 1	9,01 FISHING, OTHERS	100 Release spear and rack back in derrick.	35/11-8-12 AH 35/11-8-12 AH
09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	22:30	22:30	30 15	1673 1673	6,33 CHANGE HANDLING EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Change from 5-7/8" DP slips to FMS slips. 100 Held prejobmeeting with crew prior to rig up for casing.	35/11-B-12 AH 35/11-B-12 AH
99-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	22:30 22:00	22:00					
09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	22:30	22:00				POOH with B-Spear and 10-3/4" CSG on 5-7/8" DP. Pulled 4 m and observed 20 ton OP. Attempted to pass LPR with several attempts. Bride moved rig slightly in opposite direction.	
10-apri-19 Deepsea Atlantic 09-apri-19 Deepsea Atlantic 09-apri-19 Deepsea Atlantic 09-apri-19 Deepsea Atlantic 09-apri-19 Deepsea Atlantic 09-apri-19 Deepsea Atlantic 09-apri-19 Deepsea Atlantic	22:30 22:00	22:00					
09-apr-19 Deepsea Atlantic	22:30 22:00 21:45					Worked string up and down and pulled string above obstruction. Pulled B- Spear/ 10 3/4"	
99-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic 19-apr-19 Deepsea Atlantic	22:30 22:00	22:00	80	1673	9,01 FISHING, OTHERS	Worked string up and down and pulled string above obstruction. Pulled B- Spear/ 10 3/4" 100 CSG on 5-7/8" DP from 2070m to 1687m. Soft start and stop.	35/11-B-12 AH
79-apr-19 Deepsea Atlantic 79-apr-19 Deepsea Atlantic	22:30 22:00 21:45		80	2076	6,04 PUMP SLUG	Worked string up and down and pulled string above obstruction. Pulled B-Spear/ 10 3/4* 100 CSG on 5-7/8* DP from 2070m to 1687m. Soft start and stop. 100 Line up and pumped 10 m3 with 1,56 sg slug prior to pull out of hole with 10-3/4* CSG.	35/11-B-12 AH
79-apr-19 Deepsea Atlantic 79-apr-19 Deepsea Atlantic	22:30 22:00 21:45 20:25	21:45		2076		Worked string up and down and pulled string above obstruction. Pulled B: Spear/ 10 3/4" 100 CSG on 5-7/8" DP from 2070m to 1687m. Soft start and stop. 100 Line up and pumped 10 m3 with 1,56 sg slug prior to pull out of hole with 10-3/4" CSG. 100 Flow check well. well static Cik.	
29-apr.19 Deepsea Atlantic	22:30 22:00 21:45 20:25 20:25 20:05 19:45	21:45 20:25 20:05 19:45	20	2076 2076	6,04 PUMP SLUG 6,41 FLOW CHECK 5,02 DISPLACE WELL/RISER	Worked string up and down and public string above obstruction. Public 9- Spear / 10 J/4* 100 CGG on 5-1/9 PP form 2070 not 1055 mills. Not start and exist. 100 Line up and pumped 10 mill with 1,55 kg slag prior to pull out of hole with 10-3/4* CGG. 100 First characteristic and cut. Co. 100 First characteristic with 100 mills (sp. 100 to 1.2 fs. Q DBM with 1400 LPM / 103 bar. Total 100 pumped 100 J 201 characteristics.)	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
29-apr.19 Deepsea Atlantic	22:30 22:00 21:45 20:25 20:05 19:45 18:35 18:10	21:45 20:25 20:05 19:45 18:35	20 20 70 25	2076 2076 2076 2076	6,04 PUMP SLUG 6,41 FLOW CHECK 5,02 DISPLACE WELL/RISER 5,02 DISPLACE WELL/RISER	Worked string up and down and public string above obstruction. Public 9- Spear / 10 J/4* 100 CGG on 5-1/9 PP form 2070 not 1055 mills. Not start and exist. 100 Line up and pumped 10 mill with 1,55 kg slag prior to pull out of hole with 10-3/4* CGG. 100 First characteristic and cut. Co. 100 First characteristic with 100 mills (sp. 100 to 1.2 fs. Q DBM with 1400 LPM / 103 bar. Total 100 pumped 100 J 201 characteristics.)	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
P3-pr-19 Deeppea Atlantic	22:30 22:00 21:45 20:25 20:25 20:05 19:45	21:45 20:25 20:05 19:45	20 20 70	2076 2076 2076 2076 2076 2076 2076	6,04 PUMP SLUG 6,41 FLOW CHECK 5,02 DISPLACE WELL/RISER	Worked string up and down and pulled string above obstruction. Pulled 8-Spear/ 10 3/4* 100 CSG on 5-7/8* DP from 2070m to 1687m. Soft start and stop. 100 Like up and pumped 10 m3 with 1,5 is git lag prior to pull out of hole with 10-3/4* CSG. 100 Flow check well, well static. Ok. Saft start obsogies well from 1.0 is NGC1 to 1,2 for OBM with 3400 LPM / 100 bar. Total	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH

09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	17:20 17:15	17:30 17:20	10 5	366 25	6 RIH CH 6,33 CHANGE HANDLING EQUIPMENT	100 RIH with Spear assy on 5 7/8" DP from 25m to/366m. Training with new personell. 100 Installed 5 7/8" power slips.	35/11-8-12 AH 35/11-8-12 AH
09-apr-19 Deepsea Atlantic	16:45	17:15	30	25	6,1 MAKE UP BHA	100 Pick up spear assy, 5 7/8" dp, bumber sub and make up same according to Baker rep.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	16:30 16:15	16:45 16:30	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Prejobmeeting prior to make up spear assy. 100 Clean and clear rigitioor.	35/11-B-12 AH 35/11-B-12 AH
09-apr-19 Deepsea Atlantic	15:15	16:15	60	0	6,11 LAY DOWN BHA	100 Lay down SA and pack off tool.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	15:10 15:05	15:15 15:10	5	63 366	6,75 TRIPPING RISER WITH FULL BORE TOOLS 6,74 COMPENSATE THROUGH BOP	100 POOH with SA on 5.7/8" DP. 100 Compensate Swab cup assy through BOP.	35/11-B-12 AH 35/11-B-12 AH
09-apr-19 Deepsea Atlantic	14:50	15:05	15	404	6,74 COMPENSATE THROUGH BOP	100 Compensate seal assy/MPT through BOP, sow 2ton @ LA held 2ton and slided through.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	14:20	14:50	30	431	6,41 FLOW CHECK	Flowcheck well via killine to TT1. Opened Annular and flowchecked well against TT2. Waited 100 30 min to let LA element retrack.	35/11-B-12 AH
						Sheard ballicary with 14-bar. Circulated down with 1,00g NaCl until pressure increase on choice line paugic go 950/M reduced flow due to 10% gas in mud and increasing gas level in states room. Make gar screding what lear room 11.5 (2000 perm due)upper and Code in other common 15. (2000 perm due)upper and Code in other common 15. (2000 perm due)upper and Code in other common 15. (2000 perm due)upper and Code in other common 15. (2000 perm due)upper and Code in the code i	
09-apr-19 Deepsea Atlantic	12:15	14:20	125	431	5,01 CIRCULATE HOLE CLEAN	100 volum normaly. Totaly pumped 44.8m ³ . Cont. pull seal assembly free while stripping trough LA while monitoring TT. Increase	35/11-8-12 AH
						hookload in 5 ton steps up to 140ton nogo, worked up/down between 120-140ton. Seal assy released @ 140ton hookload 60ton overpull. Baseoil from annulus equilze to open	
09-apr-19 Deepsea Atlantic	12:00	12:15	15	434	12,13 SEAL ASSY / WEAR BUSHING	100 chokemanifold. Pressured up to 195bar to open circ sub. Pull seal assembly free while stripping trough LA while monitoring TT. Increase hookload in 5	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	11:55	12:00	5	435	12,13 SEAL ASSY / WEAR BUSHING	100 ton steps.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	11:10	11:55	45	435	12,13 SEALASSY/WEAR BUSHING	Dropped Basir 1 3/8" ball and Rill with and space out for closing lower annuiar. Closed LA with 1460Ps up weight 80th on 600 weight 70th 0.0 ppcn. LA vict to \$klims via pool and Pressure up to 100bar inside DP against ball/seat. Maintain 100bar on DP and land MPT tool act to Aker rep. Close LA and pressure up 10bar against LA to verify LA sealing. Bleed off 10p pressure trough \$kl/Close. Keep Chicke one va PP and TTI.	35/11-8-12 AH
09-apr-19 Deepsea Atlantic	10:30	11:10	40	405	12,13 SEAL ASSY / WEAR BUSHING	Connect TD open auto IBOP and compensated pack-off tool through BOP tested pack off with 100 10bar down string.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	10:00 09:40	10:30 10:00	30 20	366 366	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 Prejob prior to RIH and release seal assy. 100 RIH with Swab cup and MPT on 5 7/8" DP from/63m to/366m.	35/11-B-12 AH 35/11-B-12 AH
						P/II swah run assy from RCWM and M/II 2 connections, set dins and installed 5.7/8" DP std.	
09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	08:45 08:30	09:40 08:45	55 15	63	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 P/U MPT from RCWM and installed M/U same. 100 Debrief after POOH and release wearbushing.	35/11-B-12 AH 35/11-B-12 AH
09-apr-19 Deepsea Atlantic	08:15	08:30	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear drifficor. Cont POOH with MUT assy and release wearbushing on DF. L/D MUT assy and wearbushing	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	07:40	08:15	35	0	6,11 LAY DOWN BHA	100 to RCWM.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	07:00	07:40	40	14	12,13 SEAL ASSY / WEAR BUSHING	100 POOH with wear bushing on 5 7/8" DP from/383m to/14m. Realesed wearbushing from WH. Pulled free with 27ton overpull. Washed wellhead with	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	06:30	07:00	30	383	12,13 SEAL ASSY / WEAR BUSHING	100 2500[pm/14bar. Continue to perform visual inspection of bumper frames in main wellcenter. Meanwhile	35/11-B-12 AH
09-apr-19 Deepsea Atlantic 09-apr-19 Deepsea Atlantic	05:45	06:30	45	430	25,22 DROP's Inspection 15,11 PRESSURE TEST BOP	O weah and flush to Sp tanks. Pressure test 80°F to 20 bar/s min and 300 bar/10 min. Rig up and dart dimultaneous pressuretest 100 also and manual KC and kellylinose while pressuretest 80°F to 20 bar/s min and 200 bar/10 min. Meanwhile preferring several mantenances in drifting area. Visual week to several s	35/11-8-12 AH
www.in meebsea Atlantic	01:15	US:40	270	430	**/II PRESSURE IEST BUFF	100 down equipment after pressuretest of TD. RIH with MUT on 5-7/8" DP from 50 m to last stand prior to land MUT. Record upweight 74	33/11-0-12 AH
09-apr-19 Deepsea Atlantic	00:20	01:15	55	430	15,11 PRESSURE TEST BOP	ton, downweight 74 ton. Activate AHC and land MUT in wellhead. Set down all stringweight 100 and open elevator and position TD at drillfloor.	35/11-B-12 AH
09-apr-19 Deepsea Atlantic	00:00	00:20	20	50	15,11 PRESSURE TEST BOP	100 RIH with jet stand from derrick and pick up MUT from catwalk.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	23:45	00:00	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear driffloor. Meanwhile functiontest BSR with blue pod from acustic on bridge. Remove plate and 2 x wipers under RKB. POOH, check and L/D 10-3/4* Cutter assy to	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	23:30	23:45	15	0	6,11 LAY DOWN SHA	100 RCWM. POOH with 10-3/4" Cutter assy from 390 m to 9 m. Trouble with kelly hose pendeling to	35/11-8-12 AH
08-apr-19 Deepsea Atlantic	23:10	23:30	20	9	6,01 POOH CH	100 wrong side of service loop - use personel to observe in derrick during trip.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	23:00	23:10	10	352	6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP with 10-3/4" Cutter assy. POOH with 10-3/4" Cutter assy from 1445 m to 390 m. POOH with reduced speed due to dope every connection due brine in well. Trouble with kelly hose pendsting to wrong side of	35/11-8-12 AH
08-apr-19 Deepsea Atlantic	21:40	23:00	80	390	6,08 POOH CH reduced speed	service loop - use personel to observe in derrick during trip. Meanwhile preformed BOP test 100 #2 - 20 bar/5 min, 300 bar/10 min.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	21:30	21:40	10	1445	1 RIG UP AND TEAR DOWN.	100 Installed 2 x wipers under RKB. POOH with 10-3/4" Cutter assy from 1729 m to 1445 m. POOH with reduced speed due to	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	21:15	21:30	15	1445	6,08 POOH CH reduced speed	dope every connection due brine in well. Attempted to pull with wiper over slips, but need 100 to have wiper under RKB.	35/11-B-12 AH
						Connect topdrive. Pump 5 m3 with 1,20 sg brine and displace with 3 m3. Pump with low rate	
08-apr-19 Deepsea Atlantic	20:50	21:15	25	1729	6,04 PUMP SLUG	100 due to cutting in hole. POOH with 10-3/4" Cutter assy from 2083 m to 1729 m. POOH with reduced speed due to dope every connection due brine in well. Stopped at 1729 m when start to pull wet.	
08-apr-19 Deepsea Atlantic	20:30	20:50	20	1729	6,08 POOH CH reduced speed	Meanwhile start to pressure test failsafe on BOP/body test on new choke valves (BOP test #1 100 - 20bar/5 min, 690 bar/10 min).	35/11-B-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	20:00	20:30	30	2083	6,41 FLOW CHECK	100 Flowcheck well. Well statick. Ok.	35/11-B-12 AH
	19:50	20:00	10	2083	12,3 CUT CASING	Drop 2" ball. M/U TD and activate compensator. Activate knifes acc to Baker. Pump 2" ball	35/11-8-12 AH
08-apr-19 Deepsea Atlantic	19:15	19:50	35	2083	12,3 CUT CASING	100 vwth 300 lpm and 30 RPM. Observed pressure increased to 23 bar. Flowcheck well for 10 min. Well Static. Meanwhile held prejob meeting prior to next	35/11-B-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	18:55 16:45	19:15 16:50	20 5	2083 2053	6,41 FLOW CHECK 6,07 RIH CH Reduced speed	100 operation. 100 Cont. RIH with 10%" cutter assy on 5 7/8" DP from 1978m to 2053m.	35/11-B-12 AH 35/11-B-12 AH
08-apr-19 Deepsea Atlantic	16:30	16:45	15	1978	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to start cutting 10%" CSG. Meanwhile fill pipe. Position bottom of string @ 2083m bit depth. M/U TD and establish circulation with 3000(pm/68bar. Circ 15min with 1.30 g WBM prior to start displacing. Displace kill/chopke and 800ST to 1,06 g, NaCl. Start pumping 1.06 g NaCl and displace well. total strokes	35/11-8-12 AH
08-apr-19 Deepsea Atlantic	16:25	18:55	150	2083	5,02 DISPLACE WELL/RISER	100 pumped 8600 strokes. Cont. RiH with 10%" cutter assy on 5 7/8" DP from 1902m to 2053m with reduced speed last	
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	16:10 15:25	16:25 16:10	15 45	2053 1902	6,07 RIH CH Reduced speed 6 RIH CH	100 stands. 100 Cont. RiH with 10%" cutter assy on 5.7/8" DP from 1032m to 1902m.	35/11-B-12 AH 35/11-B-12 AH
08-apr-19 Deepsea Atlantic	15:10	15:25	15	1032	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrief with crew after WL operations. Meanwhile M/U TD and fill pipe and empty TT.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	14:40	15:10	30	1032	6 RIH CH	100 Cont. RiH with 10%" cutter assy on 5 7/8" DP from 363m to 1032m.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	14:30 14:10	14:40 14:30	10 20	387 363	6,74 COMPENSATE THROUGH BOP 6 RIH CH	100 Compensate through BOP. 100 RiH with 10N° cutter assy on 5.7/8° DP from 11m to 363m. P/U Rockbit assy from deck. Break bit assy and install 10N° cutter in middle. installed pipe	35/11-B-12 AH 35/11-B-12 AH
18-apr-19 Deepsea Atlantic	13:25	14:10	45	11	C 4 MANYE HID DAIA	100 doper prior to RIH.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	13:10	13:25	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear drillfloor prior to RIH with cutting assy.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	13:00 12:20	13:10 13:00	10 40	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 11,02 RIG UP OR DOWN FOR WIRELINE	100 Prejobmeeting with crew prior to P/U 10%" Cutting assy. 97 Rig down WL end WL equipment.	35/11-B-12 AH 35/11-B-12 AH
08-apr-19 Deepsea Atlantic	12:00	12:20	20	0	11,03 WL OPERATIONS	97 Start POOH with Camera on WL from 380m to RKB. Run #1 - RIH with wireline camera and inspect BOP. POOH and cleaned lens. Run #2 - RIH	35/11-8-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	07:30 07:10	12:00 07:30	270 20	380	11,03 WL OPERATIONS 11,02 RIG UP OR DOWN FOR WIRELINE	97: with wireline camera and inspect BOP. 97: R/U for running WL.	35/11-8-12 AH 35/11-8-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	07:00 06:45	07:10 07:00	10 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 11,02 RIG UP OR DOWN FOR WIRELINE	100 Prejobmeeting with crew prior to rigging up WL and RIH with camera on WL to inspect BOP. 100 Start to rig up for wireline. Install shackle sub in elevator. If manner acou and insorts came IR/1.5 170 5-788" IP and null 10-348" junk hasket above.	35/11-8-12 AH 35/11-8-12 AH
08-apr-19 Deepsea Atlantic	06:15	06:45	30	0	6,11 LAY DOWN BHA	100 RKB, clean junk basket and L/D same to RCW. No debries. 100 PCICH with RDP Clean out RHA on 5 7/8* DP from 370 m to 60 m	35/11-B-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	06:00	06:15	15 30	60 370	6,01 POOH CH 6,74 COMPENSATE THROUGH BOP	100 POOH with 80P Clean out BHA on 5 7/8" DP from 370 m to 60 m. Compensate 16" jetting tool out of 80P, I/D 1 singel 5-7/8" HWDP for spaceout. 100 Compensate 10-3/4" junk basket through 80P. Displace riser with seawater for camera run. Displace kill- and chokeline theoretical to SW.	35/11-8-12 AH 35/11-8-12 AH
						Pump with 4000 Ipm down string and 1500 Ipm down kill and choke. Start dumping when interface at shaker. Pump until clear water in return verified by mud engineer and deepwell.	
08-apr-19 Deepsea Atlantic	03:35	05:30	115	437	5,02 DISPLACE WELL/RISER	100 Total pumped 579 m3. Wash BOP with 1,30 sg WBM with 11 rpm / 1 kNm, 4000 lpm down string / 38 bar. Rotate	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	03:05	03:35	30	437	6,22 WASH DOWN	100 and reciprocate 8 passes through 80P.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	02:50	03:05	15	437	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Projobmeeting before washing and displacing well from 437 m prior to camera run. Compensate 10-3/4" junk basket through BOP. P/U 1 singel 5-7/8" HWDP for spaceout.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	02:25 02:15	02:50 02:25	25 10	437 365	6,74 COMPENSATE THROUGH BOP 6 RIH CH	Connect TD. Compensate and tag M8 with 16° jetting tool at 383,50 m. 100 RiH with BOP Clean out BHA on 5-7/8" DP from 60 m to 365 m.	35/11-8-12 AH 35/11-8-12 AH
08-apr-19 Deepsea Atlantic	01:45	02:15	30	0	6,1 MAKE UP BHA	100 Pick up 10-3/4" junk basket assy, 1 stand 5-7/8" DP and 16" jetting tool assy from catwalk.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic 08-apr-19 Deepsea Atlantic	01:30 01:15	01:45 01:30	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Held prejobmeeting prior to build BOP cleanout BHA. 100 Clean and clear drifficor. Clean RKB and top of diverter.	35/11-B-12 AH 35/11-B-12 AH
08-apr-19 Deepsea Atlantic	00:45	01:15	30	0	1 RIG UP AND TEAR DOWN.	Install shackle sub, lift up casingtong and send down casingtong from main wellcenter to 100 riserdeck.	35/11-B-12 AH
08-apr-19 Deepsea Atlantic	00:30	00:45	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Held prejobmeeting prior to send down casingtong from main wellcenter to riserdeck.	35/11-8-12 AH
08-apr-19 Deepsea Atlantic	00:00	00:30	30	0	6,11 LAY DOWN BHA	100 P/U double 5-7/8" DP from RCWM and rack back last stand. POOH with EZSV RT and L/D.	35/11-B-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	23:45	00:00 23:45	15 10	25 25	6,13 TRAINING WITH MANUAL RIG TONGS 1 RIG UP AND TEAR DOWN.	100 Held prejobmeeting and performed training with rigtongs. Held debrief. 100 Remove plate and 2 x wipers under RKB	35/11-B-12 AH 35/11-B-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	23:20 23:10	23:35	15	25 25	6,01 PODH CH 6,74 COMPENSATE THROUGH BOP	100 POOH with EZSV RT on 5-7/8" DP from 390 m to 25 m. 100 Compensate EZSV RT through BOP.	35/11-B-12 AH 35/11-B-12 AH
		23:20 23:10	10	352 390	6,01 POOH CH	100 Compensate EZSV RT on 5-7/8" DP from 1113 m to 390 m.	

	22:30 21:35	22:45 22:30	55	1113 1113	6,01	KICK DRILL, CHOKE DRILL 100 Performed kickdrill with crew. POOH CH 100 Disconnect TD. POOH with EZSV RT on 5-7/8" DP from 2073 m to 1113 m.	35/11-B-12 AH 35/11-B-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	21:15 21:00	21:35 21:15	20 15	2073 2073		PUMP SLUG 100 Pump 4,5 m3 with 1,59 sg slug and displace surface lines. Trouble with suction from pit. RDW CHECK 100 Flow chack well for 10 min prior to pump slug. Well static.	35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic	19:50	21:00	70	2085		Circulate bottom up with 4000 (pm / 86 bar, 70 rpm / 4-51Nm. Reciprocate string. Circulate CIRCULATE AND CONDITION MUD 100 until well clean. Pump total of 1,5 times bottoms up, total 9000 strokes.	35/11-B-12 AH
						Set slips on EZSV with 37 rotations zero tourqe according to Baker procedure. Release from	
7-apr-19 Deepsea Atlantic	19:40	19:50	10	2090	12,88	SET/RELASE MECH PLLIGS 100 nive with 35 ton overnull. Pull up 4 m. Run back in to tag EZSV with 9 ton at 2090 m.	35/11-B-12 AH
7-apr-19 Deepsea Atlantic	19:15	19:40	25	2080	12.88	Connect TD to string, UP weight 117ton, down weight 104 ton. Fill string and break circulation with 770 (pm. Brush setting area for EZSV up and down for five min, 6 times, with 55T/RELASE MECH PLUSS 100 800 (bm.).	35/11-B-12 AH
7-apr-19 Deepsea Atlantic 7-apr-19 Deepsea Atlantic	18:25 18:10	19:15 18:25	50 15	2080 1496	6,07	SET/RELASE MECH PLUGS 100 800 lpm. RIN CH Reduced speed with 10 3/4" EZSV/Brush from 1496m to 1890m. PREJOBALETINE S BRIEF/DEBRIEF 100 Debred with crew after Kickdrill. Meanwhile M/J ITD and break Circulation.	35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic 7-apr-19 Deepsea Atlantic	18:05 17:25	18:10 18:05	5	1496 1496		WELL CONTROL DRILLS 100 Performe Kick drill with drill crew. RIH CH Reduced speed 100 RIH with reduced speed with 10 3/4" EZSV/Brush from/980m to/1496m	35/11-B-12 AH 35/11-B-12 AH
	17:10	17:25		980			
7-apr-19 Deepsea Atlantic 7-apr-19 Deepsea Atlantic	16:25	17:10	15 45	980		CIRCULATE AND CONDITION MUD 100 Debrief with crew after 8/U EZV plugg assy. Meanwhile M/U TD and break circulation. RIH CH Reduced speed 100 RIH with reduced speed with 10 3/4" EZSV/Brush from/401m to/980m	35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic	16:10	16:25	15	401	25,3	PREJOBMEETING - BRIEF/DEBRIEF 100 Debrief with crew after L/D Junk Mill assy. Meanwhile M/U TD and break circulation.	35/11-B-12 AH
7-apr-19 Deepsea Atlantic 7-apr-19 Deepsea Atlantic	15:55 15:40	16:10 15:55	15 15	401 363	6,07	COMPENSATE THROUGH BOP 100 Compensate EZSV/Brush through BOP RIH CH Reduced speed 100 RIH with reduced speed with 10 3/4" EZSV/Brush from/22m to/363m	35/11-B-12 AH 35/11-B-12 AH
97-apr-19 Deepsea Atlantic 97-apr-19 Deepsea Atlantic	15:00 14:30	15:40 15:00	40 30	0	6,11	LAY DOWN BHA 100 RIH with EZSV/Brush to 22m B/U dbl. MAKE UP BHA 100 P/U plug R/T and installed 5 7/8" std. P/U and installed EZSV inc Brush to R/T.	35/11-B-12 AH 35/11-B-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	14:00 13:30	14:30 14:00	30 30	0	38,01	CLEAN AND CLEAR RIGFLOOR 100 Clean and clear driffioor. Meanwhile grease TD/Dolly PREJOBMEETING - BRIEF/DEBRIEF 100 Debrief after POOH with Drift assy, Prejob prior to RIH with 10 3/4" EZSV.	35/11-8-12 AH 35/11-8-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	12:45 12:40	13:30 12:45	45	0	6,11	LAY DOWN BHA 100 Lay down jar, breake out X-O and lay down mill same to RCWM. POOH with BHA 100 POOH with Clean out assy on 5 7/8" HWDP from/106m to/33m.	35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic	12:35	12:40 12:35	5 20	106 106	6,33	CHANGE HANDLING EQUIPMENT 100 Changed to 5 7/8" manual slips.	35/11-B-12 AH 35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic 7-apr-19 Deepsea Atlantic	12:10	12:15	5	366	6,74	COMPENSATE THROUGH ROP 100 Commencate Clean out assy through ROP	35/11-B-12 AH
97-apr-19 Deepsea Atlantic 97-apr-19 Deepsea Atlantic	12:00 11:50	12:10 12:00	10 10	403 552	6,01	POOH CH 100 POOH with Clean out assy on 5.7/8" DP from/552m to/403m. POOH CH 100 POOH with Clean out assy on 5.7/8" DP from/819m to/552m.	35/11-B-12 AH 35/11-B-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	11:35 10:40	11:50 11:35	15 55	819 819		FLOW CHECK 100 Flowchecked well prior to pull BHA through BDP. PODH CH 100 PODH with Clean out assy on 5.7/8" DP from/2059m to/819m.	35/11-B-12 AH 35/11-B-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	10:15	10:40	25	2059	6,04	PUMP SLUG 100 Pumped slug	35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic 7-apr-19 Deepsea Atlantic	10:00 09:45	10:15 10:00	15 15	2059 2144	6,41	FLOW CHECK 100 Flowchecked well prior to POOH.	35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic	09:05	09:45	40	2144	6,4	Connected TD and filled pipe while drifting down to 2144m. Recorded up-weight/126Ton, FILL PIPE 100 down-weight/108Ton.	35/11-8-12 AH
7-apr-19 Deepsea Atlantic	07:40	09:05	85	2068		RIH with 10-3/4" Driftassy on 5-7/8" DP from/1008 m to/2144m. Run with reduced speed RIH CH Reduced speed 100 due to possible plastic clamp debries in well.	35/11-B-12 AH
7-apr-19 Deepsea Atlantic	07:20	07:40	20	1008		FILL PIPE 100 Connected TD and filled pipe. RIH with 10-3/4" Driftrun on 5-7/8" DP from 403 m to 1008m. Run with reduced speed due	35/11-B-12 AH
07-apr-19 Deepsea Atlantic	06:40	07:20	40	1008		RIH CH Reduced speed 100 to possible plastic clamp debries in well.	35/11-B-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	06:30 05:45	06:40 06:30	10 45	403 366		MAKE UP BHA 100 RIH with 10-3/4" Driftrun on 10 stand 5-7/8" HWDP from 32 m to 366 m.	35/11-B-12 AH 35/11-B-12 AH
77-apr-19 Deepsea Atlantic	05:30	05:45	15	32		Install 5-7/8" powerslips. Run premade 10-3/4" Drift BHA from derrick. I/D handlingpup to MAKE UP BHA 100 RCWM.	35/11-B-12 AH
7-apr-19 Deepsea Atlantic	05:00	05:30	30	0	25 22	Observed SLS umbilical partly jumped out of sheave in derrick. Use manrider and fix SLS DROP's Inspection 100 umbilical in sheave to avoid damage to umbilical.	35/11-8-12 AH
07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic 07-apr-19 Deepsea Atlantic	04:45	05:00 04:45	15 15	0	25,3	DOURS impaction in Straward or advisor commigrate demonstration. 100 Helid prejobmeeting prior to RiiH with 10-3/4" Drift run. CLEAN AND CLEAR RIGFLOOR 100 Clean and clear driffloor.	35/11-B-12 AH 35/11-B-12 AH 35/11-B-12 AH
7-apr-19 Deepsea Atlantic 7-apr-19 Deepsea Atlantic	04:30 04:15	04:45	15 15	0		FISHING, OTHERS 100 Rig down equipment for pulling control line.	35/11-B-12 AH
						Pull CL (control line) out of hole with elevator and secure same with tugger, and pull loose C into cable reel. Observed termination at cabel end. Totalt pulled 57 lenghts of cabel with TD	
07-apr-19 Deepsea Atlantic	00:00	04:15	255	0	19,01	FISHING, OTHERS 100 estimated pulled 2264 m with control line. Pull CL out of hole with elevator and secure same with tugger, and pull lose CL into cable	35/11-B-12 AH
6-apr-19 Deepsea Atlantic	19:15	00:00	285	0	19.01	reel. Attempt to pull with reel several times - nogo. Total pulled 1017 m control line cabel m FISHING, OTHERS 100 at 24:00 hrs.	35/11-8-12 AH
6-apr-19 Deepsea Atlantic	19:00	19:15	15	0	25,3	PREJOBMEETING - BRIEF/DEBRIEF 100 Held prejob meeting and go through SIA prior to pull CL with top drive.	35/11-B-12 AH
6-apr-19 Deepsea Atlantic	15:40	19:00	200	0		Secure CableLine (CL) using tugger. Cut CL with grinder. Connect to CL to lose end from FISHING, OTHERS 100 cablereel. R/U to pull CL with TD and secure CL from hole on DF.	35/11-8-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	15:35 15:30	15:40 15:35	5	0	25,3 6,83	PREJOBMEETING - BRIEF/DEBRIEF 100 Projob before starting to remove controll cable on Rope spare. POOH with BHA 100 POOH with Rope spare, fish on the lower part on Rope spare	35/11-B-12 AH 35/11-B-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	15:15 15:00	15:30 15:15	15 15	13 354	6,08	PODH CH reduced speed 100 PODH with Rope spare on 5 7/8"DP reduced speed from/354m to/13m. COMPENSATE THROUGH BDP 100 Compensate Rope spare through BOP.	35/11-B-12 AH 35/11-B-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	14:25	15:00	35	392	6,08	POOH CH reduced speed 100 POOH with Rope spare on 5.7/8"DP reduced speed from/884m to/392m.	35/11-B-12 AH 35/11-B-12 AH
	14:15	14:25	10	884		Connect TD RiH set down Ston wob #9 850m slided down with low increase on WOB to 10	
6-apr-19 Deepsea Atlantic	13:20	14:15	55	950		FISHING, OTHERS 100 ton @ 950m. Rotated slowly 5 turn and POOH with 97ton upweight. Cont RIH from 488m to 871m. Reduced speed due to possibility of CL/fish in hole. Breake cir	
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	12:35 12:20	13:20 12:35	45 15	846 488	6,07	RIH CH Reduced speed 100 when indication of plugged string. CIRCULATE AND CONDITION MUD 100 M/U TD and break circulation to verify DP not pluged.	35/11-B-12 AH 35/11-B-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	12:00 11:50	12:20 12:00	20 10	392 200	6,74	COMPENSATE THROUGH BOP 100 compensate throughe BOP with Rope spare RIH CH 100 RIH with Rope spare on 5 7/8"DP from/13m to/354m	35/11-B-12 AH 35/11-B-12 AH
6-apr-19 Deepsea Atlantic	11:45	11:50	5	13	6,1	MAKE UP BHA 100 RIH with Rope spare	35/11-B-12 AH
06-apr-19 Deepsea Atlantic 06-apr-19 Deepsea Atlantic	11:20 11:10	11:45 11:20	25 10	0	25,3	FISHING, OTHERS 100 Removed control cable with grinder. PREJOBMEETING - BRIEF/DEBRIEF 100 Projob before starting to remove control cable on Rope spare.	35/11-B-12 AH 35/11-B-12 AH
06-apr-19 Deepsea Atlantic	11:00	11:10	10	0	6,83	POOH with BHA 100 POOH with Rope spare, fish on the lower part on Rope spare	35/11-B-12 AH
96-apr-19 Deepsea Atlantic 96-apr-19 Deepsea Atlantic	10:10 10:00	11:00 10:10	50 10	13 730	6,08	POOH CH reduced speed 100 Cont POOH from 730m to 388m. Reduced speed due to use of mud bucket and fish. FLOW CHECK 100 Flowcheck Well for 10min prior to POOH.	35/11-B-12 AH 35/11-B-12 AH
						Record Up/Down weight 90/88 ton. Rotate 5 rpm and RIH carefullyacc to baker. Set down	
06-apr-19 Deepsea Atlantic	09:35	10:00	25	869	40.04	max 5 ton downweight 3 times. Record appx 2ton increase on up weight. Work free bird FISHING, OTHERS 100 nest act to Baker fishing. Start POOH from 869m to 730m to ensure bird nest is free.	35/11-8-12 AH
%-apr-19 Deepsea Atlantic %-apr-19 Deepsea Atlantic	09:00	09:35	35	869		HISHING, DI HERS 100 nest act to Baker fating, start POOH from Besim to 7 Jum to ensure ord nest is free. WASH DOWN 100 RIH while pumping with 200lpm from/732m to/869m.	35/11-B-12 AH 35/11-B-12 AH
						Connect TD and filled pipe due to gain in active system, suspected plugged nozzels in spare.	
6-apr-19 Deepsea Atlantic	08:30	09:00				FILL PIPE 100 pumped 200stk to fill string. Decided to lubricate down to 869m MD	
6-anr-19 Deensea Atlantic	08:10		30 20	732			35/11-8-12 AH 35/11-8-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	08:10 08:00 07:40	08:10	30 20 10 20	732 732 392 354	6.74	COMPENSATE THROUGH BOP 100 Compensate through BOP with Rope spare.	35/11-8-12 AH 35/11-8-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic			20	732	6,74	COMPRESATE THROUGH BDP 100 Compensate through BDP with Rope spare. RIH CH 100 RIH with Rope spare on 57/8"DP from/13m to/354m MAKE UP BHA 100 P/U Rope spare from RCWM.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	08:00 07:40 07:20	08:10 08:00 07:40	20 10 20 20 35	732 392 354 13	6,74	COMPRISATT THROUGH BDP 100 Compensate Prompile ToP with Rippe gards. BRICH 100 Rev with Rippe gards on 17/17/19/19 front/gill and 17/18/19 front/gill and 17/18/19/19 front/gill and 17/18/19/19/19/19/19/19/19/19/19/19/19/19/19/	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	08:00 07:40 07:20 06:45 06:30	08:10 08:00 07:40 07:20 06:45	20 10 20 20 20 35 15	732 392 354 13 0 32	6,74 6,1 6,11 25,3	COMPRIGATE THROUGH EXP 100 Revent Day Sear Sea 75 (FEED AND 11 THROUGH EXP 100 Revent Day Sear Sea 75 (FEED AND 11 THROUGH EXP 100 Revent Day Sear Sea 75 (FEED AND 11 THROUGH EXP 100 PUT Day Sear Sea 10 THROUGH EXP 100 Revent Day Sear Sea 10 THROUGH EXP 100 Revent Day Sea 10 THROUGH EXP 1	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr-19 Deepsea Atlantic 6-apr-19 Deepsea Atlantic	08:00 07:40 07:20 06:45 06:30	08:10 08:00 07:40 07:20 06:45	20 10 20 20 20 35 15	732 392 354 13 0 32	6,74 6,1 6,11 25,3	COMPRIGATI THROUGH BDP 100 Compensate through TDP with Tlong upon. MENCY 100 Read through upon or 50 TEP (Virtual Testing T	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr.19 Deepsea Atlantic	08:00 07:40 07:20 06:45 06:30 05:45 05:25	08:10 08:00 07:40 07:20 06:45 06:30 05:45	20 10 20 20 20 35 15 45 20	732 392 354 13 0 32 32 403	6,74 6,1 6,1 25,3 6,11 6,01	COMPRIGNED 100 Components through 100 with Body open.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr.19 Deepsea Atlantic	08:00 07:40 07:20 06:45 06:30	08:10 08:00 07:40 07:20 06:45	20 10 20 20 20 35 15	732 392 354 13 0 32	6,74 6,1 6,1 25,3 6,11 6,01	COMPRIGNET REQUESTED	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
S-apr-19 Deepsea Atlantic	08:00 07:40 07:20 06:45 06:30 05:45 05:25	08:10 08:00 07:40 07:20 06:45 06:30 05:45	20 10 20 20 20 35 15 45 20	732 392 354 13 0 32 32 403	6,74 6,1 6,1 25,3 6,11 6,01 6,41	COMPRISATE TRANSCRIPTOR 100 Components through 100° with floop spare. With 100° with	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr.19 Deepsea Atlantic	08:00 07:40 07:20 06:45 06:30 05:45 05:25 05:15	08:10 08:00 07:40 07:20 06:45 06:30 05:45 05:25	20 10 20 20 20 35 15 45 20	732 392 354 13 0 32 403 869	6,74 6,1 6,1 25,3 6,11 6,01 6,41	COMPRIGATI THROUGH (DP) 100 Compensate through (DP) with flowg spars. 100 Test (DP) with flowg spars or 5 TEP (DP) with flowg spars. 100 Test (DP) with flowg spars or 5 TEP (DP) with flowgrape (DP) with flowgra	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr-19 Deepse Atlantic	08:00 07:40 07:20 06:45 06:30 05:45 05:25 05:15	08:10 08:00 07:40 07:20 06:45 06:30 05:45 05:25 05:15	20 20 20 20 35 15 45 20 10	732 392 354 13 0 32 403 869	6,74 6,1 6,1 25,3 6,11 6,01 6,41 6,41 6,21	COMPRISATE TRANSCRIPCO 100 Compensate Browage To Mr with Browg spare. MARK LOP Black 100 FAT TO A STATE A S	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
6-apr.19 Deepsea Atlantic	08:00 07:40 07:20 06:45 06:30 05:45 05:25 05:15	08:10 08:00 07:40 07:20 06:45 06:30 05:45 05:25 05:15 04:45 04:30	20 10 20 20 35 15 45 20 10	732 392 354 13 0 32 403 869 869 780 670	6,74 6,1 6,1 6,1 25,3 6,11 6,01 6,41 6,41	COMPRIGNED PROPRIES	35/11-8-12 AM 35/11-8-12 AM
ik-apr.19 Deeppea Attantic	08:00 07:40 07:20 06:45 06:30 05:45 05:25 05:15 04:45 04:30 04:20 03:30 03:30	08:10 08:00 07:40 07:20 06:45 06:30 05:45 05:25 05:15 04:45 04:30 04:20 03:30	20 10 20 20 35 15 45 20 10 30 15 15	732 392 354 13 0 32 32 32 403 869 869 780 670 403 32	6,74 6,11 25,3 6,11 6,01 6,41 6,21 6,07 6,07 6	COMPRIGATI PROJUCE (DD) 100 Compensate through IDV with Boay spars. 100 Text Profit	15(11-612 AM 15(11-612 AM
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05-apr-19 Deepsea Atlantic	17:00	18:15	75 2	1175 6.3	CHANGE HANDLING EQUIPMENT	100 Remove elevator and L/D 50fot bailes to RCWM. Installed 9fot bails and elevator.	35/11-B-12 AH
05-apr-19 Deepsea Atlantic	16:30	17:00		1175 25,	PREJOBMEETING - BRIEF/DEBRIEF	Debrief after rigging down wireline equipment. Prejob prior to rig up for 9fot bails and POOH 100 with 5 1/2" tubing.	35/11-B-12 AH
05-apr-19 Deepsea Atlantic 05-apr-19 Deepsea Atlantic	15:30 15:20	16:30 15:30	60 2 10 2	1175 11,0 1175 25,	RIG UP OR DOWN FOR WIRELINE PREJOBMEETING - BRIEF/DEBRIEF	97 B/O and L/O WL toolstring. Rig down WL equipment. 100 Prejobmetting prior to getting WL tool on surface.21	35/11-B-12 AH 35/11-B-12 AH
05-apr-19 Deepsea Atlantic	14:30	15:20	50 2	1175 11,0	WL OPERATIONS	97 POOH with wirleine from 2175 m to RKB.	35/11-B-12 AH
						Continue RIH with wireline to 2175,2 m. Start cutting tubing. Observed approx 10 ton drop	
05-apr-19 Deepsea Atlantic 05-apr-19 Deepsea Atlantic	12:00 11:15	14:30 12:00			WL OPERATIONS WL OPERATIONS	97 inn hookload and godd verifications with wireline that cut made it thorugh. 97 RIH with WL toolstring from RKB to 2160mMd while compensating TD.	35/11-B-12 AH 35/11-B-12 AH
05-apr-19 Deepsea Atlantic	09:55	11:15	80	0 11,0	RIG UP OR DOWN FOR WIRELINE	97 Rig up WL sheave in padeye sub WL for running WL inside DP/tubing. M/U toolstring.	35/11-8-12 AH
05-apr-19 Deepsea Atlantic	09:45	09:55	10	0 25,	PREJOBMEETING - BRIEF/DEBRIEF	100 Preinhmeeting with nersonell prior to rigging up WI for RIH with WI toolstring	35/11-B-12 AH
05-apr-19 Deepsea Atlantic	00:00	09:45	585	0 11.0	RIG UP OR DOWN FOR WIRELINE	Slip and cut wireline wire. Prepare and surface test new cutter assy prior to RIH. Trubleshoot on tool. Meanwhile clean and clear in drilling areas and general	35/11-B-12 AH
05-apr-19 Deepsea Atlantic	00.00	U9:H3	383	0 11,0	RIG OF OR DOWN FOR WIREDINE	97 maintenance on drilling equipment.	35/11-6-12 AH
04-apr-19 Deepsea Atlantic	21:15	00:00	165	0 11,0	RIG UP OR DOWN FOR WIRELINE	Slip and cut wireline wire. Prepare and surface test new cutter assy prior to RIH. Meanwhile 97 clean and clear in drilling areas and general maintenance on drilling equipment.	35/11-8-12 AH
						Transfer weight from TD and T-bar to wireline unit. Remove T-bar and start to pull out of	
04-apr-19 Deepsea Atlantic	19:40	21:15	95	0 11,0	WL OPERATIONS	hole with wireline unit. Work toolstring through overshot assy with max overpul 250 lbs. 97 Pull to surface - no tool string, wire released from weaklink in cabel head.	35/11-B-12 AH
04-apr-19 Deepsea Atlantic	19:40	21:15	95	0 11,0	WEOPERATIONS	Pull free wire with TD. Pull in stepts to 3000 kg - 70% of weaklink weight. Observed loss of	35/11-8-12 AH
04-apr-19 Deepsea Atlantic	19:30	19:40	10 3	1083 11,0	WL OPERATIONS	weight from 65,5 ton to 62,5 ton when pulling. Pulled one more meter with just cable 97 weight to verify.	35/11-B-12 AH
04-apr-19 Deepsea Atlantic	19:15	19:30	15 3	1083 25,	PREJOBMEETING - BRIEF/DEBRIEF	100 Held prejobmeeting with involved personel prior to attempt to pull free WL string.	35/11-8-12 AH
						Prepare to pull on WL with TD. Ris down WL wiper and BX elevator. Attach WL T-bar clamp	
04-apr-19 Deepsea Atlantic 04-apr-19 Deepsea Atlantic	18:45	19:15			RIG UP OR DOWN FOR WIRELINE PREJORMEETING - BRIEF/DEBRIEF	97 to TD balles. P/U downholeweight of wire and attach T-bar clamp to WL. 100 New prejob/SIA meeting prior to MOC.	35/11-B-12 AH
34-apr-19 Deepsea Atlantic 34-apr-19 Deepsea Atlantic	18:30 18:15	18:45 18:30	15 3 15 3		WAIT ON 3.PART	97 MOC change in plans.	35/11-B-12 AH 35/11-B-12 AH
04-apr-19 Deepsea Atlantic	18:00	18:15	15 3	1083 25,	PREJOBMEETING - BRIEF/DEBRIEF	Conduct prejob/SIA meeting with involved personel prior to securing WL with WL clamp and 100 attemt to pull free WL anchor/weak link.	35/11-8-12 AH
						Attemt to pull free WL toolstring after tool self release engage @ approximatey 1.58PM.	
04-apr-19 Deepsea Atlantic	13:45	18:00	255 3	1083 11,0	WL OPERATIONS	97 NoGo with pulling free toolstring on first attemt. Increase overpull and attemt to pull free.	35/11-8-12 AH
04-apr-19 Deepsea Atlantic	13:30	13:45	15 3	1083 25,	PREJOBMEETING - BRIEF/DEBRIEF	Perform prejobmeeting/risk assessment with involved personel prior to attemting to free WL 100 toolstring.	35/11-B-12 AH
						Wait on failed WL cutter assy to time out and release. Monitor triptank. Meanwhile general	
04-apr-19 Deepsea Atlantic	12:00	13:30	90 3	1083 41,0	WAIT ON 3.PART	maintance and clean and clear in drilling areas. Work with upgrade on shakers and cuttings 97 handlig area. Install kellyhose guide in main wellcenter.	35/11-B-12 AH
						Wait on failed WL cutter assy to time out and release. Monitor triptank. Meanwhile general maintance and clean and clear in drilling areas. Meanwhile performe tabletop meeting with	
						crew and statoil discussing different scenarios with PODH with 5 1/2" tubing and current	
						well situation. Drain HPU line and change valve, Performe drops check on main and aux HR. Work with upgrade on shakers and cuttings handlig area. Install kellyhose guide in main	
04-apr-19 Deepsea Atlantic	00:00	12:00	720 3	1083 41,0	WAIT ON 3.PART	97 wellcenter. General maintance.	35/11-B-12 AH
03-apr-19 Deepsea Atlantic	18:00	00:00	360 3	1083 41,0	WAIT ON 3 PART	Drop check main and aux HR. Drain HPU and install valve. General maintanance in drilling 97 areas.	35/11-B-12 AH
pr-zar overpalid Atlantic	48:00		300 3	41,0	on arms	y/ areas. While cutting tubing @2205mMd, WL unit lost communication trough wireline cable. Last	
						communication with tools @13.10. Meanwhil performe table too meeting with crew and	
03-apr-19 Deepsea Atlantic	15:15	18:00	165 3	1083 41,0	WAIT ON 3.PART	statoil discussin different scenarios with POOH with 5 1/2" tubing and current situation i 97 well. Run trough several safety bulletines with crew.	35/11-B-12 AH
03-apr-19 Deepsea Atlantic	12:00	15:15	195 3		WL OPERATIONS	RiH with wireline toolstring to 100m and start AHC. Cont. RiH to xxxm and correlate depth 97 with CCL and tubing tally.	35/11-B-12 AH
03-apr-19 Deepsea Atlantic	11:30	12:00			RIG UP OR DOWN FOR WIRELINE	Test cutter and anchor on toolstring prior to RIH and cut 5" tubing. Pull out of slips and	35/11-8-12 AH
03-apr-19 Deepsea Atlantic 03-apr-19 Deepsea Atlantic	11:30 10:00	12:00 11:30			RIG UP OR DOWN FOR WIRELINE RIG UP OR DOWN FOR WIRELINE	97 position elevator to be able to start AHC. 97 Rig up for running wireline.	35/11-B-12 AH 35/11-B-12 AH
03-apr-19 Deepsea Atlantic	09:45	10:00	15 3	1087 25,	PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob prior to rig up wire line equipment and M/U tool string and RiH with cutter on WL.	35/11-B-12 AH
						Rack back 1 stand 5 7/8" DP. Remove BX elevator, install shackle sub in topdrive and change	
03-apr-19 Deepsea Atlantic	07:45	09:45	120 3		CHANGE HANDLING EQUIPMENT	100 bailes from 9 fot to 50 fot. Install sheave in shackle sub. Install BX elevator. Circulate hole clean with 3500 lpm/ 77 bar . Boost riser with 1000 lpm. Circulate until hole is	35/11-B-12 AH
03-apr-19 Deepsea Atlantic	07:00	07:45	45 3	1087 5,0	CIRCULATE HOLE CLEAN	100 clean. Total pumped 33 000 strokes.	35/11-B-12 AH
						Start displacing Well from 1.12 sg NaCl to 1.30 sg Mud with max 1700 lpm/19 bar. @1800	
						stk observed high gass level at shaker and stoped pumps. When gass level is back to normal, start pumps slowly and increase pumprate in steps. Plastic in returns at shaker.	
03-apr-19 Deepsea Atlantic 03-apr-19 Deepsea Atlantic	02:20 02:10	07:00 02:20			DISPLACE WELL/RISER DISPLACE WELL/RISER	100 Start boosting riser when 1,30 sg mud in return. Total pumped 24000 strokes. 100 Displace Booster line from 1.12 sg NaCl to 1.30 sg Mud.	35/11-B-12 AH 35/11-B-12 AH
	22.10			3,0		Stop circ on well and cont compensate string. Meanwhile pumproom are dumping NaCl pits	,
03-apr-19 Deepsea Atlantic	01:40	02:10	30 3	1091 5,0	MUD AND FLUID PREPARATION	Stop circ on well and cont compensate string. Meanwhile pumproom are dumping NaCl pits 100 to prepare for returns while displacing. Plastic in return from top of cut after 4000 strokes.	35/11-B-12 AH
						Start circulating with 1.12 sg NaCl. Increase pumprate in steps to 1800 lpm/ 46 bar while	
03-apr-19 Deepsea Atlantic	00:10	01:40	90 3	1091	CIRCULATE AND CONDITION MUD	monitiring pumppressure end returnflow closlely due to debries in well. Meanwhile 100 Pumproom adding chemicals and preparing 1.30 sg mud prior to displacing.	35/11-B-12 AH
						Shut in well due to gain in T/T. Close lower annular and open choke fail safes. Still increase in T/T. Deside to close upper annular due to readings. Cont flow check well. Add defoamer to	
03-apr-19 Deepsea Atlantic	00:00	00:10	10 3	1091 6,4	FLOW CHECK	100 mud -gain stops 100 mud -gain stops Shut in well due to gain in T/T. Close lower annular and open choke fail safes. Still increase in	35/11-8-12 AH
						T/T. Deside to close upper annular due to readings. Cont flow check well. Add defoamer to	
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	23:20 23:15	00:00 23:20			FLOW CHECK FISHING, OTHERS	100 mud - gain stops. 100 Pull tubing free with 88 ton overpull.	35/11-8-12 AH 35/11-8-12 AH
02-apr-19 Deepsea Atlantic	23:10	23:15			FISHING, OTHERS	Est circ 500 Ipm/7 bar and start rotating with 10 rpm. RIH and tag top of cut. Verify depth 100 and engade overshot.	35/11-B-12 AH
02-apr-19 Deepsea Atlantic	23:00	23:10			FILL TRIP TANK	100 FILT/Tat	35/11-B-12 AH
02-apr-19 Deepsea Atlantic	22:00	23:00	60	662	CIRCULATE AND CONDITION MUD	Empty T/T Meanwhile conducting prejob/displace meeting. Connect TD and start displacing 100 to 1.12 sg NaCl.	35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	21:35 21:30	22:00 21:35	25	652	RIH CH L/D DRILLSTRING	100 RIH to 652m on 5 7/8" DP. 100 Compensate BOP. Lay down single.	35/11-8-12 AH 35/11-8-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	21:00	21:30 21:00		365	RIH CH MAKE UP BHA	100 RIH to 365 m on 5-7/8" DP. 100 Make un overshot and inspert same	35/11-B-12 AH 35/11-B-12 AH
						Prejobmeeting with crew prior to RIH with overshot to displace well, retrive fish and WL	
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	20:35 20:20	20:45 20:35	10 15	0 25,	PREJOBMEETING - BRIEF/DEBRIEF CLEAN AND CLEAR RIGFLOOR	100 operations. 100 Clean and clear DF. Prepare for next run.	35/11-B-12 AH 35/11-B-12 AH
	19:50	20:20	30	0 61	LAY DOWN BHA	100 L/D X-treme magnet assy & Jar assy to RCWM. R/B 2 std 6½ "DC. L/D Skirted mill to RCWM.	35/11-8-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	19:45	19:50	5	103 6,8	POOH with BHA	100 Cont POOH 5 7/8" HWDP from 251m to 103m.	35/11-B-12 AH
02-apr-19 Deepsea Atlantic	19:30	19:45			POOH CH reduced speed	100 Cont POOH 5 7/8" DP from 365m to 251m with reduced speed due to use of mud bucket.	35/11-B-12 AH
02-apr-19 Deepsea Atlantic	19:25	19:30			COMPENSATE THROUGH BOP	100 Compensate trough BOP.	35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	18:45 18:35	19:25 18:45			POOH CH reduced speed FLOW CHECK	100 POOH 5 7/8" DP from 660m to 412m with reduced speed due to use of mud bucket. 100 Flowcheck, well static. Mill too fish with 2500 LPM/ 41 bar. 100 RPM/ 3-7 KNM. WOB 2 ton. Milled 1,20 m. Boost	35/11-B-12 AH 35/11-B-12 AH
02-apr-19 Deepsea Atlantic	17:20	18:35			MILLING	Mill top fish with 2500 LPM/ 41 bar. 100 RPM/ 3-7 KNM. WOB 2 ton. Milled 1,20 m. Boost 100 with 1000 LPM.	35/11-B-12 AH
12-apr-19 Deepsea Atlantic	17:05	17:20			FILL PIPE		35/11-8-12 AH
02-apr-19 Deepsea Atlantic	16:40	17:05	25	650	RIH CH	100 Cont. RiH with skirtmill on 5 7/8"dp from 390. to 650m	35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	16:30 16:15	16:40 16:30			COMPENSATE THROUGH BOP	100 Compensate through BOP with skirtmill assy.	35/11-B-12 AH 35/11-B-12 AH
02-apr-19 Deepsea Atlantic	15:45	16:15			MAKE UP BHA	P/U skirtmill, magnet and jar from catwalk. RiH w/ 2std 6 1/2"dc and 4 std 5 7/8"hwdp from 100 rkb to 250m	35/11-B-12 AH
02-apr-19 Deepsea Atlantic	15:30	15:45	15	0 25,	PREJOBMEETING - BRIEF/DEBRIEF	100 Problementing prior to RIH with Skirted mill assy. 100 Clean and clear DF.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	15:15 15:00	15:30 15:15	15 15	0 6,1	CLEAN AND CLEAR RIGFLOOR LAY DOWN BHA	100 No control lines on run #3. L/D Rope Spear BHA on RCWM	35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	14:40 14:30	15:00 14:40		354 6,7	POOH CH reduced speed COMPENSATE THROUGH BOP	100 POOH wet with Rope Spear run #3 on 5 7/8" DP from 354 m. 100 Compensate through BOP.	35/11-B-12 AH 35/11-B-12 AH
02-apr-19 Deepsea Atlantic	14:20	14:30			POOH CH reduced speed	100 POOH wet with Rope Spear run #3 on 5 7/8" DP from 657 m to 390 m.	35/11-B-12 AH
						Connect TD. Record up/down weight: 83/82 ton. RIH and enter top fish @ 666 m with 0,5 m.	
02-apr-19 Deepsea Atlantic	14:00	14:20		666 19,0	FISHING, OTHERS	No weight/obstructions observed. Pull 1 m above top fish and rotate with 10 RPM/ 1 KNM. 100 Work area 665 m to 1 m below top fish 3 times up/down. No tourge /OP observed.	35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	13:50 13:40	14:00 13:50	10	657	RIH CH COMPENSATE THROUGH BOP	100 RIH with Rope Spear run #3 on 5 7/8" DP from 390 m to 657 m.	35/11-B-12 AH 35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	13:40 13:20	13:50 13:40			RIH CH	100 RIH with Rope Spear run #3 on 5 7/8" DP to 354 m.	35/11-B-12 AH 35/11-B-12 AH
02-apr-19 Deepsea Atlantic	13:10	13:20	10		FISHING, OTHERS	Remove control lines from spear. Approximately 10 m. Decided to make a rerun with rope 100 spear.	35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	12:50 12:40	13:10 12:50	20 10	0 6,0 354 6,7	PODH CH reduced speed COMPENSATE THROUGH BOP	100 POOH wet with Rope Spear run #2 on 5 7/8" DP from 354 m. 100 Compensate through BOP.	35/11-B-12 AH 35/11-B-12 AH
02-apr-19 Deepsea Atlantic	12:20	12:40			POOH CH reduced speed	100 POOH wet with Rope Spear run #2 on 5 7/8" DP from 657 m to 390 m.	35/11-B-12 AH
						Connect TD. Record up/down weight: 83/82 ton. RIH and enter top fish @ 666 m with 0,5 m.	
02-apr-19 Deepsea Atlantic	12:00	12:20	20	666 19,0	FISHING, OTHERS	No weight/obstructions observed. Pull 1 m above top fish and rotate with 10 RPM/ 1 KNM. 100 Work area 665 m to 1,5 m below top fish 3 times up/down. No tourge /OP observed.	35/11-B-12 AH
	11:45	12:00 11:45	15	657	FRIH CH L COMPENSATE THROUGH BOP	100 RIH with Rope Spear run #2 on 5 7/8" DP from 390 m to 657 m.	35/11-B-12 AH 35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic							
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	11:30 11:20 10:45	11:30 11:20	15 10 35	390 6,7 354 6.1	RIH CH LAY DOWN BHA	100 RIH with Rope Spear run #2 on 5 7/8" DP from 15 m to 354 m. 100 Remove controll lines from spear. Decided to make a rerun with rope spear.	35/11-B-12 AH 35/11-B-12 AH

02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic	10:20		10	15	6,08 POOH CH reduced speed		35/11-B-12 AH
02-apr-19 Deepsea Atlantic 02-apr-19 Deepsea Atlantic		10:30				100 POOH wet with Rope Spear on 5 7/8" DP from 354 m to 15 m. Compensate through BOP. Rotate rope spear in upper annular area, attempt to fish junk in	
2-apr-19 Deepsea Atlantic	10:10	10:20	10	357	6,74 COMPENSATE THROUGH BOP	100 upper annular (observed on camera run). 100 POOH wet with Rope Spear on 5 7/8" DP from 657 m to 390 m.	35/11-B-12 AH
	10:00	10:10	10	390	6,08 POOH CH reduced speed	100 POOH wet with Rope Spear on 5 7/8" DP from 657 m to 390 m.	35/11-B-12 AH
						Connect TD. Record up/down weight: 83/82 ton. RIH and enter top fish @ 666 m with 0,5 m. No weight/obstructions observed. Pull 1 m above top fish and rotate with 10 RPM/ 1 KNM.	
						Work area 665 m to top fish 3 times up/down. Observed 1 small tourge peak (2-3 KNM) no	
l-apr-19 Deepsea Atlantic	09:30	10:00	30	666	19,01 FISHING, OTHERS	100 weight observed when null up	35/11-B-12 AH
apr-19 Deepsea Atlantic	09:15	09:30	15	657	6 RIH CH	100 RIH with Rope Spear on 5 7/8" DP from 390 m to 657 m.	35/11-B-12 AH
apr-19 Deepsea Atlantic	09:05	09:15	10	390	6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP.	
apr-19 Deepsea Atlantic	08:50	09:05 08:50	15 20	354	6 RIH CH 6.1 MAKE UP BHA	100 RIH with Rope Spear on 5 7/8" DP from 15 m to 354 m. 100 P/U Rope Spear assy from RCWM. Baker rep inspect and prepare for RIH.	35/11-B-12 AH
apr-19 Deepsea Atlantic apr-19 Deepsea Atlantic	08:30 08:15	08:50 08:30	20 15	15	6,1 MAKE UP BHA 6,11 LAY DOWN BHA	100 P/U Rope Spear assy from RCWM. Baker rep inspect and prepare for RIH. 100 P/U xo/handlingpup from RCWM, install on Mill assy, L/D same to deck.	35/11-B-12 AH 35/11-B-12 AH
арт-19 Осержа Аовиис	00.13	00.30			ULT DAT DOWN DIEN		33/11-0-11-0-1
apr-19 Deepsea Atlantic	08:00	08:15	15	10	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrief after BHA. Prejob meeting for next BHA. Meanwhile deck prepare next BHA on deck.	35/11-B-12 AH
apr-19 Deepsea Atlantic	07:50	08:00	10	10	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear DF. Meanwhile deck prepare next BHA on deck.	35/11-8-12 AH
apr-19 Deepsea Atlantic	07:30	07:50	20	10	6,11 LAY DOWN BHA 6,83 POOH with BHA	100 POOH and with Magnet assy and jar assy, L/D to RCWM.	35/11-B-12 AH
apr-19 Deepsea Atlantic	07:15 07:00	07:30 07:15	15 15	360	6,83 POUH WITH BHA 6.74 COMPENSATE THROUGH BOP	100 POOH wet on 5 7/8" HWDP from 360 m to 30 m. 100 P/U double 5 7/8" DP from RCWM. Compensate through BOP.	35/11-B-12 AH 35/11-B-12 AH
e-apr-19 Deepsea Atlantic	06:45	07:00	15	414	6,08 POOH CH reduced speed	100 POOH from 653m to 414 m. Reduced speed du too possible restrictions in well.	35/11-8-12 AH
l-apr-19 Deepsea Atlantic	06:30	06:45	15	653	6,41 FLOW CHECK	100 Flow check. Well static.	35/11-B-12 AH
-apr-19 Deepsea Atlantic	06:10	06:30	20	666	6,22 WASH DOWN	100 Connect Top Drive and wash down fro 620 m with 1000 lpm 8 bar. Tag fish @ 666 m. 100 Continue RIH with reduced speed due to possible restrictions in well.	35/11-B-12 AH
l-apr-19 Deepsea Atlantic I-apr-19 Deepsea Atlantic	05:45	06:10 05:45	25 15	620 416	6,07 RIH CH Reduced speed 6,31 L/D DRILLSTRING	100 Lay down double 5-7/8" DP.	35/11-B-12 AH 35/11-B-12 AH
						Breake of stab and float from DC std. Pick up mill, JAR and X-treme magnet and make up	
2-apr-19 Deepsea Atlantic	04:15	05:30	75	397	6,1 MAKE UP BHA	100 same, RiH on 5-7/8" HWDP to 397 m. Compensate BOP.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	04:00	04:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob prior to RIH with mill.	35/11-B-12 AH
2-apr-19 Deepsea Atlantic 2-apr-19 Deepsea Atlantic	03:45 03:05	04:00 03:45	15	0	38,01 CLEAN AND CLEAR RIGFLOOR 6,33 CHANGE HANDLING EQUIPMENT	100 Clean and clear DF. 100 Change handlig equipment from 5%" casing handling equipment to 5 7/8"	35/11-B-12 AH 35/11-B-12 AH
2-apr-19 Deepsea Atlantic	02:15	03:05	50	0	19,01 FISHING, OTHERS	100 R/O and I/O three nieres SV" tubine fish to RCWM	35/11-B-12 AH
2-apr-19 Deepsea Atlantic	02:05	02:15	10	0	6,33 CHANGE HANDLING EQUIPMENT	100 Change handig equipment from 5 7/8" to 5%" casing handing equipment. L/D jar assy to RCWM. POOH with spear and fish. Land and secure fish in RKB. Release spear	35/11-B-12 AH
						L/D jar assy to RCWM. POOH with spear and fish. Land and secure fish in RKB. Release spear	
2-apr-19 Deepsea Atlantic	01:45	02:05	20	0	6,11 LAY DOWN BHA	100 and hold with HR.	35/11-B-12 AH
						Cont. POOH on 5 7/8" HWDP from 206m to 20m with reduced speed due to good indication:	
2-apr-19 Deepsea Atlantic	01:30	01:45	15	20	6,83 POOH with BHA	100 of fish attached to spear. Turn string .% turn on every stand prior to soft-setting slips.	35/11-B-12 AH
					40.000		
						Cont. POOH on 5 7/8" DP from 357m to 206m with reduced speed due to good indications or	
2-apr-19 Deepsea Atlantic	00:55	01:30	35	206	6,08 POOH CH reduced speed	100 fish attached to spear. Turn string .% turn on every stand prior to soft-setting slips. 100 Compensate trough BOP.	35/11-8-12 AH
2-apr-19 Deepsea Atlantic	00:50	00:55	5	357	6,74 COMPENSATE THROUGH BOP	100 Compensate trough BOP.	35/11-8-12 AH
						POOH from 636m to 404 with reduced speed due to good indications of fish attached to	
2-apr-19 Deepsea Atlantic	00:10	00:50	40	404	6,08 POOH CH reduced speed	100 spear. Turn string .% turn on every stand prior to soft-setting slips.P/U dobbel @423m	35/11-B-12 AH
					·	Spear lacked on to fish. P/U 24 ton overpull. Good indications for fish recoverd. Deside along	
2-apr-19 Deepsea Atlantic	00:00	00:10	10	636	19,01 FISHING, OTHERS	100 with Statoil and Baker representativ to POOH.	35/11-B-12 AH
						M/U TD to string. Record up/down weight 88/86ton. RiH to enter fish @632 while	
I-apr-19 Deepsea Atlantic I-apr-19 Deepsea Atlantic	23:50 23:30	00:00 23:50	10	636	19,01 FISHING, OTHERS 6 RIH CH	100 compensating. Set 5 ton downweight and engage spear.	35/11-B-12 AH 35/11-B-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	23:30	23:50 23:30	20 5	603 395	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 L/D dobbel 5 7/8" DP. Cont RIH on 5 7/8" DP from 395m to 603m . 100 Compensate through BOP.	35/11-B-12 AH 35/11-B-12 AH
1-apr-19 Deepsea Atlantic	23:20	23:25	5		6 RIH CH	100 Cont RIH on 5 7/8" DP from 206 to 358m.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	23:20 23:10	23:25 23:20	10	358 206	6 RIH CH 6,82 RIH with BHA	100 RIH on 5 7/8" HWDP from 20m to 206m.	35/11-B-12 AH 35/11-B-12 AH
1-apr-19 Deepsea Atlantic	23:05	23:10	5	20	6.33 CHANGE HANDLING EQUIPMENT	100 Install autoslips.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	22:45	23:05	20	20	6,1 MAKE UP BHA	100 Pick up and make up spear assy BHA	35/11-8-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	22:35 22:20	22:45 22:35	10 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Pre-Job Meeting RIH Spear assy 100 Clean and clear drilffoor. Lubricate travelling block.	35/11-B-12 AH 35/11-B-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	22:20	22:35 22:20	15 50	0	38,01 CLEAN AND CLEAR RIGFLOOR 6,11 LAY DOWN SHA	100 R/B 5 7/8" HWDP & L/D tapermil.	35/11-B-12 AH 35/11-B-12 AH
1-apr-19 Deepsea Atlantic	21:25	21:30	5	255	6,3 P/U DRILLSTRING	100 R/B 57/8" HWDP & L/D tapermill. 100 P/U 57/8" DP singel.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	21:20	21:25	5	255	6,08 POOH CH reduced speed	100 POOH with Tapermill F/ 370 m to 255 m.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	20:55	21:20	25	416	6,3 P/U DRILLSTRING	100 P/U DP dobble and compensate truge BOP.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	20:45	20:55	10	416	6,08 POOH CH reduced speed 6,41 FLOW CHECK	100 POOH with Tapermill F/626 m to 416m.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	20:36	20:45 20:36	9	626 637	6,41 FLOW CHECK 5 CIRCULATE AND CONDITION MUD	100 Flow check. 100 Tag top of fish with no-go 636,8 m.	35/11-B-12 AH 35/11-B-12 AH
1-apr-19 Deepsea Atlantic	20:30	20:30	10	607	6 RIH CH	100 Tag top of fan with folge 656,8 m. 100 Cont RiH on 5 7/8" DP from 565 to 607m.	35/11-8-12 AH
1-apr-19 Deepsea Atlantic	20:15	20:20	5	565	5 CIRCULATE AND CONDITION MUD		35/11-B-12 AH
1-apr-19 Deepsea Atlantic	19:55	20:15	20	530	6 RIH CH	100 L/D 5 7/8" DP dobbel and cont RH on 5 7/8" DP from 408 to 530m. 100 Compensate trough BOP from 361m to 399m.	35/11-B-12 AH
-apr-19 Deepsea Atlantic	19:50	19:55	5	408	6,74 COMPENSATE THROUGH BOP	100 Compensate trough BOP from 361m to 399m.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	19:45 19:20	19:50 19:45	5	361 219	6 RIH CH 6,82 RIH with BHA	100 L/D 5 7/8" DP top singel and cont RIH on 5 7/8" DP from 219 to 361m. 100 RIH on 5 7/8" HWDP from 24m to 219m.	35/11-B-12 AH 35/11-B-12 AH
1-apr-25 Despata Austric	13.20	19.49		***	U,UZ NIII WUI UI IA	P/U and install 5 7/8" xo/Handlingpup on Jar. B/O X/O in bottom of 5 7/8" HWDP and M/U	33/12-0-12 NO
1-apr-19 Deepsea Atlantic	18:55	19:20	25	23	6,1 MAKE UP BHA	100 to string.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	18:50	18:55	5	15	6,33 CHANGE HANDLING EQUIPMENT	100 Change to 5 7/8" DP inserts in BX-elevator.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	18:40	18:50	10	15	6,1 MAKE UP BHA	100 P/U Jar assy, B/O and L/D 5" Handlingpup.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	18:30	18:40	10	0	6,33 CHANGE HANDLING EQUIPMENT	100 Change to 5" DP inserts in BX-elevator.	35/11-8-12 AH
						P/U 4 1/2" Tapermill/bumpersub assy, B/O several connections with csg tong to check for	
1-apr-19 Deepsea Atlantic	17:30	18:30	60	0	6,1 MAKE UP BHA	100 junk/ plugged BHA, no junk/plug observed. M/U 4 1/2" Tapermill/ bumpersub BHA.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	17:15	17:30	15	0	6.11 LAY DOWN BHA	100 B/O driftsub, remove 4 1/8" drift from driftsub.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	16:55	17:15	20	0	6,01 POOH CH	100 POOH with driftsub on 5 7/8" DP from 430 m, compensate through BOP.	35/11-B-12 AH
	16:30	16:55	25	430	6 RIH CH		35/11-B-12 AH
1-apr-19 Deepsea Atlantic	10:30	10.55		430		100 RIH with driftsub on 5 7/8" DP to 430 m. Compensate through BOP. Drop 4 1/8" drift. Debrief after trip with Mill. Prejob meeting prior to RIH with Driftsub and drift 12 stand 5	33/11-0-12 MH
1-apr-19 Deepsea Atlantic	16:15	16:30	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 7/8" DP.	35/11-8-12 AH
1-apr-19 Deepsea Atlantic	16:00	16:15	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear DF.	35/11-8-12 AH
						POOH wet with Mill BHA on 6 1/2" DC from 89 m to 4 m. L/D Jar to RCWM. Pull Mill above rotary on last stand 6 1/2" DC to isspert and check Mill. Confirmed Mill worn out. Decided	
1-apr-19 Deepsea Atlantic	15:30	16:00	30	0	6,08 POOH CH reduced speed	rotary on last stand 6 1/2" DC to inspect and check Mill. Confirmed Mill worn out. Decideed 100 to B/O Mill and R/B remaining Mill BHA on 6 1/2" DC stand.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	15:20	15:30	10	89	6,33 CHANGE HANDLING EQUIPMENT	100 Change to 5" handling equipment.	35/11-B-12 AH
	15:15	15:20	5	89	6,08 POOH CH reduced speed	100 Change to 5" handling equipment. 100 POOH wet with Mill BHA on 5 7/8" DP from 237 m to 89 m.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic	15:10	15:15		237	6,08 POOH CH reduced speed	100 POOH wet with Mill BHA on 5 7/8" DP from 273 m to 237 m.	35/11-B-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	15:00		5	273 273	15,04 KICK DRILL, CHOKE DRILL	100 Kick drill with crew. 100 POOH wet with Mill BHA on 5 7/8" DP from 427 m to 273 m.	
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic		15:10	5 10				35/11-8-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	14:55	15:00	5		6,08 POOH CH reduced speed 6.74 COMPENSATE THROUGH ROP		35/11-B-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	14:55 14:50 14:30	15:00 14:55 14:50	5	350 427	6,74 COMPENSATE THROUGH BDP 6,08 POOH CH reduced speed	100 P/U singel from RCWM. Compensate through BOP. 100 POOH wet with Mill BHA on 5 7/8" DP from 620 m to 427 m.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20	15:00 14:55 14:50 14:30	5 10 5 5 20	350 427 620	6,74 COMPENSATE THROUGH BOP 6,08 POOH CH reduced speed 6,41 FLOW CHECK	100 P/U singel from RCWM. Compensate through BOP. 100 POOH wet with Mill BHA on 5 7/8" DP from 620 m to 427 m. 100 Flowcheck, well static.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic 11-apr-19 Deepsea Atlantic	14:55 14:50 14:30	15:00 14:55 14:50	5 10 5 5 20	350 427	6,74 COMPENSATE THROUGH BDP 6,08 POOH CH reduced speed	100 P/U singel from RCWM. Compensate through BDP. 100 POOH wet with Mill BHA on 5 7/8" DP from 620 m to 427 m. 100 Flowchedu, well static. 100 Pump 10 m ² Hi-visc pil, circulate B/U with 3000 LPM/50 bar. 100 RPM/ 2-3 KNM.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20	15:00 14:55 14:50 14:30	5 10 5 5 20	350 427 620	6,74 COMPENSATE THROUGH BOP 6,08 POOH CH reduced speed 6,41 FLOW CHECK	100 PU singet from RCWM. Components through 80P. 100 POOH wet with Mill BHA on 5 7/8" OP from 620 m to 427 m. 100 Plowchock, well state: 100 Pump 10 m*H-wisc pill, criculate 8/U with 3000 LPM/50 bar. 100 RPM/ 2-3 KMM. MII 8AV with 2500 plom/ 35 bar, 50-44 08 PM/ 1-10 KMM, 5-15 from WOB. Boost Riser with	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic 1-apr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20	15:00 14:55 14:50 14:30	5 10 5 5 20	350 427 620	6,74 COMPENSATE THROUGH BOP 6,08 POOH CH reduced speed 6,41 FLOW CHECK	100 PU singel from RCVM. Compensate through BDP. 100 PCM werk with Mild Blid Ano 178" OF Phom 620 m to 427 m. 100 Flowchack, well static. 100 Panny 10 m ² H visic egg, III, circulate B/U with 3000 PM/90 bar. 100 RPM/ 2-3 DVM. MII ASV with 2500 bar/ 35 bar, 59-440 RPM/ 1-10 DVM, 515 ton WOR. Book Riser with 1000 PM, Milled from 231, m to 522 /m. Are able to make propages, group Milling. 2 m/s	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
1-apr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20	15:00 14:55 14:50 14:30	5 10 5 5 20	350 427 620	6,74 COMPENSATE THROUGH BOP 6,08 POOH CH reduced speed 6,41 FLOW CHECK	100 P/V singer from KrOMA. Compensate through RDP. 100 POOL** un't Mill Bill bill on 27 (PP of the mill Dil to 102 m.) 101 Pool** un't Mill Bill bill on 27 (PP of the mill Dil to 102 m.) 101 Plantache, with Interes. 102 Plantache, with Interes. 103	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
1-apr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30	15:00 14:55 14:50 14:30 14:20	\$ 10 \$ 5 \$ 5 20 10 \$0	350 427 620 620	6,74 COMPRISATE TROUGH BOP 6,08 POOT IT reduced speed 6,41 FLOW CHEEK 5,01 CIRCULATE HOLE CLEAN 35,01 MILLING	100 PyU singel from ROVAM. Components through BDP. 100 POOL were with Mull Blish on 27 pir 0 has not 30 m to 42 m. 100 Floorback, wist Statut. 100 Pump 100 m 1 wis use; pit, circulaise 8/U wist 3000 LPM/50 siz: 100 RPM/23 ROVA. Mill ROV with 2500 piny 35 bat; 504 809 RPM/14 DROVA, 53 box NOVE Boost Rose with 100 RPM/23 ROVA. Mill ROV with 2500 piny 35 bat; 504 809 RPM/14 DROVA, 53 box NOVE Boost Rose with 100 RPM/14 ROVA. Mill ROVA with 250 RPM/15 bat to 8/L VIII be set fing with no crossoroffice. Tag 6 REX.21 100 m, corrected for tale and use of base. Mill ROVA with 2500 piny 15 bat; 504 809 RPM/14 DROVA, 515 box NOVE Boost Rose Vision 100 RPM/12 RPM/12 RPM/14 RPM/	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
Japr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30	15:00 14:55 14:50 14:30 14:20	5 10 5 5 5 20 10	350 427 620 620	6,74 COMPENSATE THROUGH BOP 6,08 POOH OH reduced speed 6,41 FLOW CHECK 5,01 CIRCULATE HOLE CLEAN	100 P/U useget from KVMA. Compensate through BDP. 100 POOL** with MILB Bills no. 127 of Po em GD in to 42 m. 100 Pool** with MILB Bills no. 127 of Po em GD in to 42 m. 100 Pool** of Pool	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
Japr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30	15:00 14:55 14:50 14:30 14:20	\$ 10 \$ 5 \$ 5 20 10 \$0	350 427 620 620	6,74 COMPRISATE TROUGH BOP 6,08 POOT IT reduced speed 6,41 FLOW CHEEK 5,01 CIRCULATE HOLE CLEAN 35,01 MILLING	100 P/V Lingset from RVANA. Components through BDP. 103 P/OUT was the MILE Bill and 1,970 P from 102 in to 10 x 2 m. 103 P/OUT was the MILE Bill and 1,970 P from 102 in to 10 x 2 m. 105 P Army 10 and 1 white pill, creation 8/10 was 1000 PM/V Dax 1.00 RVA 2.3 DAM. MILE BAVE WAS 1000 PM 100 F to 100 EVEN 100 F BILL BILL BILL BILL BILL BILL BILL BI	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
Lapri 19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30 12:00 07:45	15:00 14:55 14:50 14:30 14:20 13:30	5 10 5 5 20 10 50	350 427 620 620 632	674 COMPRISATE TREDUSER FOR 6.00 PCONT CHARGED GREAT 6.41 FLOW CHECK 5.01 CONCLUST ROSE CLEAN 13.61 MILLING 13.61 MILLING	100 P/U seget from KTVAM. Compensate through BDP. 100 POOL** until MI BBB 100 on 200* PO from 600 D to 42 m. 101 Pool** until MI BBB 100 on 200* PO from 600 D to 42 m. 102 Pool** on 200 Pool** on 20	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
-ag-19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30 12:00 07:45	15:00 14:55 14:50 14:30 14:20 13:30 12:00	5 10 5 5 20 10 50	350 427 620 620 632 632	6.74 COMPRISATE THROUGH FOP 6.80 PCONT CHROSE OPE 6.81 ROY CHRO. 7.50 CONCUST FOR CLARA 3.61 MILLING 3.61 MILLING 3.61 MILLING 3.61 MILLING	100 P/V Lingset from RVANA. Compensate through BDP. 100 P/OST-water with Mill Bills on 2 (70° P from 1020 in to 42° m. 100 P/OST-water with Mill Bills on 2 (70° P from 1020 in to 42° m. 100 P-water 100° ** view (-p), Crestate 8(1) with 2000 P/M/20 but 100 RVAY 2.3 SNM. 100 P-water 100° ** view (-p), Crestate 8(1) with 2000 P/M/20 but 1.0 SNM 2.3 SNM. 100 D/M Mill Bill Prom 11.3 in 10 62.7 in to 62.0 From 100 RVAY 2.3 SNM. 100 D/M Mill Bill Prom 11.3 in 10 62.7 in to 62.0 From 100 RVAY 2.3 SNM. 100 D/M Mill Bill Bill Bill Bill Bill Bill Bil	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
-apr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30 12:00 07:45	15:00 14:55 14:50 14:30 14:20 13:30	5 10 5 5 20 10 50	350 427 620 620 632 632 632	ET COMPENSATE TREGOSTE DE SER POOT CETTORAGE OPERA SER CONTINUENCIA DE SER CONTINUENCIA DE SER CONTINUENCIA TECNICIA DE SER CONTINUENCIA TECNICIA DE SER MILLING THE SER SER DE SER MILLING THE SER SER DE SE	100 P/V Lingset from RVANA. Compensate through BDP. 100 P/OST-water with Mill Bills on 2 (70° P from 1020 in to 42° m. 100 P/OST-water with Mill Bills on 2 (70° P from 1020 in to 42° m. 100 P-water 100° ** view (-p), Crestate 8(1) with 2000 P/M/20 but 100 RVAY 2.3 SNM. 100 P-water 100° ** view (-p), Crestate 8(1) with 2000 P/M/20 but 1.0 SNM 2.3 SNM. 100 D/M Mill Bill Prom 11.3 in 10 62.7 in to 62.0 From 100 RVAY 2.3 SNM. 100 D/M Mill Bill Prom 11.3 in 10 62.7 in to 62.0 From 100 RVAY 2.3 SNM. 100 D/M Mill Bill Bill Bill Bill Bill Bill Bil	35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH
-apr-19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30 12:00 07:45 07:30 07:00 06:45	15:00 14:55 14:50 14:30 14:20 13:30 12:00 07:45 07:30 07:00 06:50	5 10 5 5 20 10 50 90 255	350 427 620 620 632 632 632 632 604 386 348	ET COMPRISATE TREDUCES FOP ASS POOT CHARGE OPEN SES	100 P/V Jurget from KRVAN, Compensate through BDP. 100 POOL was the MILE MILE AND EXP OF the mile 20 in to 42 m. 101 POOL was the MILE MILE AND EXP OF the mile 20 in to 42 m. 102 Powns 10 m ² first less, pill, created 80 um 80 2000 JM/90 bar. 100 FM/9 3.3 NNM. 100 JM/90 Was 100 big 17 his 100 to 60 27 m. to 60 27 m. to 60 27 m. to 60 28 m.	35/11-8-12 AH 35/11-8-17 AH 35/11-8-17 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
-Lapri 19 Deepsea Atlantic	14:55 14:50 14:30 14:20 13:30 12:00 07:45	15:00 14:55 14:50 14:30 14:20 13:30 12:00 07:45 07:30 07:00	5 10 5 5 20 10 50 90 255	350 427 620 620 632 632 632	ETA COMPRISATE TREDUCES FOR SELECTOR CONTRIBUTION SELECTOR CONTRIB	100 P/V Lingset from RVANA. Compensate through BDP. 100 P/OST-water with Mill Bills on 2 (70° P from 1020 in to 42° m. 100 P/OST-water with Mill Bills on 2 (70° P from 1020 in to 42° m. 100 P-water 100° ** view (-p), Crestate 8(1) with 2000 P/M/20 but 100 RVAY 2.3 SNM. 100 P-water 100° ** view (-p), Crestate 8(1) with 2000 P/M/20 but 1.0 SNM 2.3 SNM. 100 D/M Mill Bill Prom 11.3 in 10 62.7 in to 62.0 From 100 RVAY 2.3 SNM. 100 D/M Mill Bill Prom 11.3 in 10 62.7 in to 62.0 From 100 RVAY 2.3 SNM. 100 D/M Mill Bill Bill Bill Bill Bill Bill Bil	35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH 35/11.8-12 AH
- ago-19 Deeppes Atlantic	14:55 14:50 14:30 14:20 13:30 12:00 07:45 07:30 07:00 06:50 06:45 06:30	15:00 14:55 14:50 14:30 14:20 13:30 12:00 07:45 07:30 07:00 06:50 06:45	5 10 5 5 20 10 50 90 255 15 30 10 5	350 427 620 620 632 632 632 632 634 386 348 234	ET COMPRISATE TREDUCES FOR SELECT CONTRIBUTION OF THE CONTRIBUTION	109 F/U singel from KNAM, Compensate through BDP. 109 FOOT-wat with MILB Black on 27 (27° P from 102 for 10 or 27 m. 109 Foot-back with 120° F. 27° P from 102 for 10 or 27 m. 100 Foot-back with 120° F. 27° P from 102 for 10 or 27° M. 101 Foot-back with 120° F. 27° F.	35/11-012 AH 35/11-012 AH
- apr. 19 Deeppes Atlantic	14:55 14:50 14:30 14:20 13:30 12:00 07:45 07:30 07:00 06:50 06:50 06:30	15:00 14:35 14:30 14:30 14:20 13:30 12:00 07:45 07:90 07:00 06:50 06:45	5 10 5 5 20 10 50 90 255	350 427 620 620 632 632 632 632 632 634 848 234	ET COMPRISATE TREGOSIS ROP AGE POOT CITCHOSIS GROE SER LIDER CHESCHES SER CONTROL CHESCHES SER C	100 P/V Jurget from KRVAN, Compensate through BDP. 100 POOL was the mid-MILE Man of 200° PO from 100 to 100 to 20 m. 101 POOL was the mid-MILE Man of 200° PO from 100 to 100 to 20 m. 102 Powns 10 m ² New Leg, III, Crustale R/U with 2000 IMA/100 Lex. 100 RMV 3.3 RMA. MAIR AVEN 100 IMAY 100 IMAY 100 Les 100 IMAY 100 IMAY 100 IMAY 3.3 RMA. 1000 IMAY MIN 100 IMAY 100 IMAY 100 IMAY 100 IMAY 100 IMAY 3.3 RMA. 1000 IMAY 100 IMAY	35/11-012 AH 35/11-012 AH
- ag-93 Desposa Altantic - ag-94 Desposa Altan	14:55 14:50 14:30 14:20 13:30 12:00 07:45 12:00 07:45 07:30 07:00 06:45 06:30 05:35 05:35	15:500 14:55 14:50 14:30 14:20 13:30 12:20 12:20 13:30 12:20 07:45 07:30 07:45 07:30 06:50 06:50 06:45	5 10 5 5 20 10 50 90 255 15 30 10 5 15 5 5 5 15 30 10 10 5 5 10 10 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	350 427 620 620 632 632 632 632 634 386 348 234	ET A COMPRISATE TREDUCES FOP SER POOT L'INCHAEDIG GREAT SER POOT L'INCHAEDIG GREAT SER CONTROL COMMENT SER	109 PyU seget from KRVAM. Compensate through BDP. 109 POUT with MILE MILE AND 120° PC from 100 to 10 to 12 m. 101 Pout Mile MILE MILE AND 120° PC from 100 to 10 to 12 m. 102 Pout MILE MILE MILE MILE MILE MILE MILE MILE	35/11-912 AM 35/11-912 AM
- 19-91 Depose Affantic 19-91 Depose Affantic	14:55 14:50 14:30 14:30 13:30 12:00 07:45 07:30 07:30 07:30 06:50 06:50 06:50 06:30 06:30 06:30 06:30 06:30	15:00 14:55 14:50 14:30 14:20 14:20 12:00 12:00 07:45 07:30 07:00 06:50 06:50 06:45 06:30 06:35 05:30 05:20	5 10 5 5 20 10 50 90 255 15 30 10 5 5 30 15 5 5 5 15 5 5 15 5 5 7 10 10 5 7 10 10 10 10 10 10 10 10 10 10 10 10 10	350 427 620 620 632 632 632 632 632 634 848 234	ET COMPRISATE TREDUCIS ROP SER POOT CITCHOST GROW SER TOWN CHECK SER CONTINUES CONTINU	100 P/V Jurget from RVANA, Compensate through BDP. 100 POOL was trained by the PV Jury PV	35/11-912 AM 35/11-912 AM
- ap-19 Despea Allentic - ap-1	14:55 14:50 14:30 14:20 13:30 12:00 07:45 12:00 07:45 07:30 07:00 06:50 06:45 06:30 05:30 05:20 05:20	15:00 14:55 14:50 14:30 14:20 14:20 12:00 12:00 07:45 07:30 07:00 06:50 06:50 06:45 06:30 06:35 05:30 05:20	5 10 5 5 20 10 50 90 255 15 30 10 5 15 5 5 5 15 30 10 10 5 5 10 10 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	350 427 620 620 632 632 632 632 604 386 348 234 86 0 0	6.74 COMPRISATE TREDUCES FOP 6.81 POOT L'INCHAED geed 6.41 FLOW CREC. 5.51 CRECULATE FOCK CREM 7.52 MILLING 7.53 MILLING 7.54 MILLING 7.55 MILLING 6. BIT CH 6.74 COMPRISATE TREDUCES FOP 6. BIT CH 6.74 MILLING 6.74 MILLING 7.75 MILLING 6.74 MILLING 6.75	109 P/U segel from RVAM. Compensate through BDP. 109 POOL virtual Mail Bills and 2 pill P of the mid Did not 42 m. 109 Pool virtual Mail Bills and 2 pill P of the mid Did not 42 m. 109 Pool virtual Mail Bills and 2 pill P of the mid Did not 42 m. 100 Pool Virtual Mail Bills and 100 Pool Bills and 100	35/11-9-12 AM 35/11-9-12 AM
- ap-19 Despea Atlantic - ap-19 To Despea Atlantic - ap-19 Despea Atlantic - a	14:55 14:50 14:30 14:30 13:30 12:00 07:45 07:30 07:30 07:30 06:50 06:50 06:50 06:30 05:30 05:30 05:30 05:30 05:30	15:00 14:55 14:50 14:50 14:30 14:20 13:30 14:20 13:30 12:00 07:45 07:30 07:50 07:50 06:45 06:30	\$ 100 \$ 5 \$ 200 \$ 200 \$ 500 \$	632 632 632 632 632 632 632 604 386 0 0 0 0 25	6.74 COMPRISATE TREDUCES FOP 6.80 POOT IT CHOSEN GOP 6.81 POOT IT CHOSEN GOP 6.81 POOT CHOSE 5.91 CHOSEN GOP 7.92 CHOSEN GOP 7.93 CHOSEN GOP 7.94 CHOSEN GOP 7.95 CHOSEN GOP 7	100 P/V Jurget from KRVAN, Compensate through BDP. 100 POOL** user with MILE Black on 27 PC P from 100 to 00 to 02 Pm. 101 POOL** user with MILE Black on 27 PC P from 100 to 00 to 02 Pm. 102 Powns 10 PM Investor, pill, crustate BVU with SDDD INA/SD Inv. 100 BVM 3.3 BVM. 100 INVESTOR STATE STAT	35/11-9-12 AM 35/11-9-12 AM
1-go-93 Deopsea Atlantic 2-po-13 Deopsea Atlantic 2-po-14 Deopsea Atlantic 2-po-15 Deopsea Atlan	14:55 14:50 14:30 14:30 13:30 12:00 07:45 07:30 07:00 06:50 06:50 06:30 05:30	15:00 14:55 14:50 14:50 14:30 14:20 11:20	5 10 5 5 20 10 50 90 255 15 30 10 5 5 30 15 5 5 5 15 5 5 15 5 5 7 10 10 5 7 10 10 10 10 10 10 10 10 10 10 10 10 10	350 427 620 620 632 632 632 632 604 386 348 234 86 0 0	ET COMPENSATE TREDUCES ROP SER POOT CETTORAGE SPEED SER POOT CETTORAGE SPEED SER POOT CETTORAGE SPEED SER	100 P/U singer from RVANA. Compensate through BDP. 100 P/OSH with Will Mill Bill and 1,970 P from 102 in to 10 x 2 m. 100 P/OSH with Will Bill Bill and 1,970 P from 102 in to 10 x 2 m. 100 P kmg 10 m² shi vicin pil, circulate B/U with 2000 PM/10 bill x 1.00 RVA 2.3 SNM. MAIR AVW MIN 2000 PM 15 km 10 x 10	35/11-9-12 AM 35/11-9-12 AM
age 19 Deepse Attentic pp 19 Deepse Attentic	14:55 14:50 14:30 14:30 13:30 12:00 07:45 07:30 07:30 07:30 06:50 06:50 06:50 06:30 05:30 05:30 05:30 05:30 05:30	15:00 14:55 14:50 14:50 14:30 14:20 13:30 14:20 13:30 12:00 07:45 07:30 07:50 07:50 06:45 06:30	\$ 100 \$ 5 \$ 200 \$ 200 \$ 500 \$	350 427 620 620 632 632 632 632 632 634 86 0 0 0 0 25 207 348	6.74 COMPRISATE TREDUCES FOP 6.80 POOT IT CHOSEN GOP 6.81 POOT IT CHOSEN GOP 6.81 POOT CHOSE 5.91 CHOSEN GOP 7.92 CHOSEN GOP 7.93 CHOSEN GOP 7.94 CHOSEN GOP 7.95 CHOSEN GOP 7	100 P/V Jurget from KRVAN, Compensate through BDP. 100 POOL was true that MILE Black on 270°P form 100 to 100 to 27 m. 101 POOL was true that MILE Black on 270°P form 100 to 100 to 27 m. 102 Powers 10 *** Interlucing, circulate BVU with 2000 IMP/SD but 1.00 IMP/S 3.8 NM. MILE AVEN 100 Sign 175 to 100 SIGN 100 IMP/SD but 1.00 IMP/S 3.8 NM. MILE AVEN 100 SIGN 100 IMP/SD 100 IMP/SD but 1.00 IMP/SD but 1.00 IMP/SD 100	35/11-9-12 AM 35/11-9-12 AM
15-ag-13 Deppus Atlantic 15-ag-13 Deppus Atlan	14:55 14:50 14:30 14:30 12:20 12:30 12:20 07:45 07:30 07:00 06:50	15:00 14:55 14:99 14:90 14:20 11:30 11:20 11:30 11:20 11:30 11:20 11:30 11:20 11:30 11:20 11:30	\$ 100 \$ 5 5 5 5 5 5 100 100 100 100 100 100 100	350 427 620 620 632 632 632 632 632 632 632 632 632 632	ET COMPRISATE TREDOSTROP 6-81 POOT CHORDING POP 6-81 FOOT CHORDING POP 5-91 CHORDING POP 6-91 CHORDING P	100 PyU seget from KRVAM. Compensate through BDP. 101 POOL view with MILB Bills on 12 (27) PC from 102 to 10 to 42 m. 102 Pool view with MILB Bills on 12 (27) PC from 102 to 10 to 42 m. 103 Pool view with MILB Bills on 12 pC from 102 to 10 to 42 m. 104 Pool view with 102 bill pol view bills bill with 100 LMP/09 bills 12 to 10 FMV 2 3 BMM. 105 IND VIEW with 1020 bill pol view bill 100 LMP/09 bills 12 to 10 FMV 2 3 BMM. 100 LVM. Milled from 61.5 m to 61.2 m. bill cable to make progress, 100 pol billing. 367.3 tone does not be 100 LMP. Milled from 61.5 m to 62.2 m. bill cable to make progress, 100 pol billing. 367.3 tone does not be 100 LMP. Milled from 61.5 m to 62.2 m. bill cable to make progress, 100 pol billing. 367.3 tone does not be 100 LMP. 104 bill bill bill bill bill bill bill bil	\$5/14-0.7 AM \$3/14-0.7 AM \$3
- ag-93 Deppes Allentic	14:55 14:50 14:30 14:30 13:30 12:00 07:45 07:30 07:00 06:50 06:50 06:30 05:30	15:00 14:55 14:50 14:50 14:30 14:20 11:20	\$ 100 \$ 5 \$ 200 \$ 200 \$ 500 \$	350 427 620 620 632 632 632 632 632 634 86 0 0 0 0 25 207 348	ET COMPENSATE TREDUCES ROP SER POOT CETTORAGE SPEED SER POOT CETTORAGE SPEED SER POOT CETTORAGE SPEED SER	100 P/U singer from RVAMC. Compensate through RDP. 101 POOL was true Mill Bill bill on 27 (27 PC from 102 to 10 to 42 m.) 102 POOL was true Mill Bill bill on 27 PC from 102 to 10 to 42 m.) 103 Pool was 10 m² fire singer, pill created RDV with 2000 LMM/20 bar. 100 RMM 3 1 SNM. 104 Pool was 10 m² fire singer, pill created RDV with 2000 LMM/20 bar. 100 RMM 3 1 SNM. 105 Pool was 10 m² fire singer, pill created RDV with 2000 LMM/20 bar. 100 RMM 3 1 SNM. 105 Pool Was 10 SNM 100 Mill bill bill bill bill bill bill bill	35/11-9-12 AM 35/11-9-12 AM
- ag-93 Deppsa Affantic	14:55 14:50 14:30 14:30 12:20 12:30 12:20	15:00 14:50 14:50 14:50 14:30 11:30 11:200 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	350 427 620 620 632 632 632 632 632 632 634 848 234 86 0 0 0 0 2 5 2 5 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ET COMPRISATE TREDUCIS ROP SER POOT CITCHOSIS INCHES SER POOT CITCHOSIS INCHES SER CONTROL CITCHOSIS INCHES SER CHESTER COLLEGA 15.01 MILLING 15.01 MILLING 15.01 MILLING 15.01 MILLING 15.01 MILLING 15.01 MIL	100 PVI visuality from RNAM, Compensate through BIDP. 100 POOL with with MILE Bills on 10 PVI	\$3/14-0.2 AM \$3/14-0.2 AM \$3/14
- ag-93 Deppas Altentic - ag-94 Deppas Altentic - ag-93 Deppas Altentic - ag-94 Deppas Altentic	14:55 14:50 14:30 14:30 14:20 13:30 12:20 07:45 07	15:00 14:55 14:55 14:50 14:20 11:20 11:20 11:20 11:20 11:20 11:20 07:45 07:45 07:50 06:50 06:50 06:50 06:30	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	550 427 620 620 632 632 632 604 386 386 348 234 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ET A COMPRISATE TREDUCIS FOP SER POOT L'IT CHASSING PO SER POOT L'IT CHASING PO SER POOT L'IT CHASSING PO SER POOT L'IT CH	100 P/U singer from RVMAC Compensate through BDP. 101 POOL was the train MILE Bills on 2 (27° PC from 100 to 10° to 42° m. 102 Power was the MILE Bills on 2 (27° PC from 100 to 10° to 42° m. 103 Power was the MILE Bills on 2 (27° PC from 100 to 10° to 42° m. 104 Power was the MILE Bills on 2 (27° PC from 100 to 10° PC from 100 to 100 to 100 to 100 to 100 to 100 to 10° PC from 100 to 10	30/11-02 AM 30/11-02 AM
- ag-93 Deppsa Allentic	14:55 14:50 14:30 14:30 11:30 12:00 07:45 12:00 07:45 07:30 07:00 06:50 06:30	15:00 14:55 14:55 14:59 14:20 14:20 14:20 11:30 11:30 12:20 07:45 07:30	5 5 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	550 427 620 632 632 632 632 632 632 632 632	ET A COMPRISATE TREDUCIS ROP SER POOT CHOCKED	100 P/Vi singer from RVANA, Compensate through BDP. 101 POOL was the MILE MILE AND EXP OF them 1020 in the 22 m. 102 Pool was the MILE MILE AND EXP OF them 1020 in the 22 m. 103 Pool was the MILE MILE AND EXP OF them 1020 in the 22 m. 103 Pool was the MILE MILE AND EXP OF THE MILE AND	30/11-0.2 AM 30/11-0.2 AM
1-ag-13 Despos Altente	14:55 14:50 14:30 14:20 12:20 13:30 12:20 27:45 27:30 27:45	15:00 14:50 14:50 14:50 14:20 14:20 14:20 14:20 11:30 11:30 11:30 11:30 11:30 07:54 07:54 07:55 08:50	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	350 4427 620 620 620 620 620 620 620 620 620 632 632 632 632 632 634 630 630 630 630 630 630 630 630 630 630	ET COMPRISATE TRIBUDIES ROP SER POOT CETTORISE SPEE SER POOT CETTORIS	100 P/U singer from RVANA. Compensate through BIDP. 101 P/OST with the MID BID AND 107 P/O P from 102 https://doi.org/10.1016/	\$5(1+0-2) AM \$3(1+0-2) AM \$3
1-ag-13 Deppas Allentic 1-ag-14 Deppas Allentic 1-ag-15 Deppas Allentic 1-ag-1	14:55 14:50 14:30 14:20 11:30 12:00 07:45 12:00 07:45 07:30 07:00 06:30 06	15:00 14:50 14:50 14:50 14:50 14:50 14:50 11:30 11:30 11:30 07:45 07:30 07:50 06:50 06:50 06:30	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	350 4427 427 427 427 427 427 427 427 427 42	ET A COMPRISATE TREDUCES FOP BASE POOT L'INCHASSI SPE BASE POOT L'INCHA	100 P/U singer from RVAMC. Compensate through BDP. 101 POOL** until MILE MILE AND 107 POP from 100 to 02 m. 102 POOL** until MILE MILE AND 107 POP from 100 to 02 m. 103 POOL** until MILE MILE AND 107 POP from 100 to 02 m. 104 POP from 100	\$5(11-0.2 AM \$3(11-0.2 AM \$3(11
19-913 Deppus Atlantic 19-913 Deppus Atlantic 19-915 Deppus Atlantic	14:55 14:50 14:30 14:20 12:20 13:30 12:20 27:45 27:30 27:45	15:00 14:50 14:50 14:50 14:20 14:20 14:20 14:20 11:30 11:30 11:30 11:30 11:30 07:54 07:54 07:55 08:50	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	350 4427 620 620 620 620 620 620 620 620 620 632 632 632 632 632 634 630 630 630 630 630 630 630 630 630 630	ET COMPRISATE TRIBUDIES ROP SER POOT CETTORISE SPEE SER POOT CETTORIS	100 P/Usinger from RVANA. Compensate through BIDP. 101 P/OST with with MID BID and 107 P/OP from 102 http://doi.org/10.1016/j.10	\$5(1+0-2) AM \$3(1+0-2) AM \$3
19-99-39 Deppen Atlantic 19-99-39 Deppen Atlan	14:55 14:50 14:30 14:30 14:30 11:30 12:00 07:45 07:30 07:30 07:00 08:50 08:30	15:00 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 13:30	5 10 10 10 10 10 10 10 10 10 10 10 10 10	350 42 427 427 429 440 440 440 440 440 440 440 440 440 44	ET COMPENSATE TREDUCIS ROP SER POOT CETTORIS GREAT SER POOT CETTORIS	100 P/O Jungel from RVANA, Compensate through BDP. 101 POOL was the MILE MILE AND EXP OF the mile 201 in 64 2 m. 102 Pool Mile And	30(11-0.2 AM 30(11-0.2 AM 30
19-99 Deppes Atlantic	14:55 14:50 14:30 14:30 12:00 07:45 07:45 07:30 07:30 07:30 07:30 06:50	15:00 14:55 14:55 14:59 14:20 14:20 14:20 17:45 07:45 07:45 07:30 06:40	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	350 42 427 427 429 440 440 440 440 440 440 440 440 440 44	ET A COMPRISATE TREDUCIS ROP AST POOL TO CHOOSE OPE SET ROY CHESS. THE COMPRISATE TO CEAN THE COMPRISATE TO CEAN THE COMPRISATE TREDUCIS ROP EST COMPRISATE TREDUCIS ROP EST COMPRISATE TREDUCIS ROP EST COMPRISATE TREDUCIS ROP EST ROY CHESS ROY CHESS ROY EST ROY CHESS ROY EST ROY CHESS ROY EST ROY CHESS ROY EST ROY	100 P/Vivient from RVANA, Compensate through BDP. 101 P/OST-water throw RVANA, Compensate through BDP. 102 P/OST-water throw RVANA, Compensate through BDP. 103 P/OST-water through BDP. 103 P/OST-water through BDP. 104 P/OST-water through BDP. 105 P/OST-water through BDP. 105 P/OST-water through BDP. 106 P/OST-water through BDP. 107 P/OST-water through BDP. 108 P/OST-water through BDP. 109 P/OST-water through BDP. 100 P/OST-water through BDP. 101 P/OST-water through BDP. 102 P/OST-water through BDP. 103 P/OST-water through BDP. 104 P/OST-water through BDP. 105 P/OST-water through BDP. 105 P/OST-water through BDP. 106 P/OST-water through BDP. 107 P/OST-water through BDP. 108 P/OST-water through BDP. 109 P	\$5(1+0-2) AM \$3(1+0-2) AM \$3(1+
1-ag-13 Deppsa Allantic	14:55 14:50 14:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 10:45	15:00 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 13:30	5 5 5 5 15 10 20 20 20 20 20 20 20 20 20 20 20 20 20	350 42 427 427 429 440 440 440 440 440 440 440 440 440 44	ET COMPRIGHT TREUDER FOP SAR POOT CHOCKED SAR POOT CHOCKED SAR CONTINUED CEAN 15.01 MILLING 15	100 P/OL vigous from RVANA. Components through BDP. 101 P/OL vigous from RVANA. Components through BDP. 102 P/OL vigous from RVANA. Components through BDP. 103 P/OL vigous vigous from RVANA. Components of the second vigous from 102 P/OL vig	\$5(11-6.2) AM \$3(11-6.2) AM \$3
1-ag-13 Deppsa Allantic	14:55 14:50 14:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 10:45	15:00 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 13:30	5 5 5 5 15 10 20 20 20 20 20 20 20 20 20 20 20 20 20	350 42 427 427 429 429 429 429 429 429 429 429 429 429	ET COMPRIGHT TREUDER FOP SAR POOT CHOCKED SAR POOT CHOCKED SAR CONTINUED CEAN 15.01 MILLING 15	100 P/Usinger from RVANA, Compensate through BDP. 101 POOL was the mind Bill Bill and 750°P form 1020 in to 42 m. 102 Pool was the mind Bill Bill and 750°P form 1020 in to 42 m. 103 Pool was the mind Bill Bill and 750°P form 1020 in to 42 m. 103 Pool was the mind Bill Bill and 103 Pool Was 100 BINN 3.3 BINN. 104 BILL BILL BILL BILL BILL BILL BILL BIL	\$5(11-6.2) AM \$3(11-6.2) AM \$3
- ag-93 Deppsa Altentic - ag-93 Depsa Altentic - ag-94 Depsa Altentic - ag-94 Depsa Altentic - ag-95 Depsa Altentic	14:55 14:50 14:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 10:45	15:00 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 13:30	5 5 5 5 15 10 20 20 20 20 20 20 20 20 20 20 20 20 20	350 42 427 427 429 429 429 429 429 429 429 429 429 429	ET COMPRIGHT TREUDER FOP SAR POOT CHOCKED SAR POOT CHOCKED SAR CONTINUED CEAN 15.01 MILLING 15	100 PM Jungel from RVANA. Compensate through BIDP. 101 PM Jungel from RVANA. Compensate through BIDP. 102 PM Jungel from RVANA. Compensate through BIDP. 103 PM Jungel from RVANA. Compensate through BIDP. 104 PM Jungel from RVANA. Compensate through BIDP. 105 PM Jungel 50 PM Intelligence Spill, Credible BIDP and Spill PM Jungel File Spill PM Ju	30/11-02 AM 30/11-02 AM
- ag-19 Deppas Altentic - ag-19 Sepas Altenti	1455 1459 1459 1459 1459 1459 1459 1459	15:00 14:50 14:50 14:50 14:50 14:50 14:50 14:50 15:50 07:50 08:50	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150	ET COMPENSATE TREDUCIS ROP SER POOT CETTORISE GREAT SER POOT CETTORI	100 P/OU signed from RNAMA. Components through BDP. 101 P/OUT west with MILE Billed on 270° P from 102 ho to 102 m. 102 P/OUT west with MILE Billed on 270° P from 102 ho to 102 m. 103 P/OUT west with MILE Billed on 250° P from 102 ho to 102 m. 103 P/OUT west 250° plan size (p.f. crusture 8/1) was 1000 P/M/20 ber. 100 P/M/2 3 DNAM. MAIR SAV west 2500 plan size 250° A16 SPM/1 2 DNAM 5 ST SER WAS 8 Boot Rise with 1000 P/M 4 MILE BILLED	\$5(11-0.2) AM \$3(11-0.2) AM \$3
ag-93 Despara Atlantic ag-94 Despara Atlantic	14:55 14:50 14:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 10:45	15:00 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 14:30 13:30	5 5 5 5 15 10 20 20 20 20 20 20 20 20 20 20 20 20 20	350 42 427 427 429 429 429 429 429 429 429 429 429 429	ET COMPRIGHT TREUDER FOP SAR POOT CHOCKED SAR POOT CHOCKED SAR CONTINUED CEAN 15.01 MILLING 15	100 PM Jungel from RVANA. Compensate through BIDP. 101 PM Jungel from RVANA. Compensate through BIDP. 102 PM Jungel from RVANA. Compensate through BIDP. 103 PM Jungel from RVANA. Compensate through BIDP. 104 PM Jungel from RVANA. Compensate through BIDP. 105 PM Jungel 50 PM Intelligence Spill, Credible BIDP and Spill PM Jungel File Spill PM Ju	30/11-02 AM 30/11-02 AM
ag-93 Despara Atlantic ag-94 Despara Atlantic	1455 1459 14	15:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 16:00	5 10 10 10 10 10 10 10 10 10 10 10 10 10	350 447 427 427 427 427 427 427 427 427 427	ET COMPRISATE TREDUCIS ROP 6.01 POOL TO CHOOSE GOP 6.01 POOL TO CHOOSE GOP 6.01 POOL TO CHOOSE GOP 15.01 MILLING 15.01 MI	100 P/V Jurget from RVAMC, Compensate through RDP. 101 POOL 1997 A 1997	35/11-0.2 AM 35/11-0.2 AM
spr-13 Deepsea Atlantic pp-13 Deepsea Atlantic pp-14 Deepsea Atlantic pp-15 Deepsea Atlantic pp-16 Deepsea Atlantic pp-17 Deepsea Atlantic pp-18 Deepsea Atlantic pp-19 Deepsea Atlantic	1455 1459 14	15:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 16:00	5 10 10 10 10 10 10 10 10 10 10 10 10 10	350 447 427 427 427 427 427 427 427 427 427	ET COMPRISATE TREDUCIS ROP 6.01 POOL TO CHOOSE GOP 6.01 POOL TO CHOOSE GOP 6.01 POOL TO CHOOSE GOP 15.01 MILLING 15.01 MI	100 Privalent from RNAM, Compensate through RDP. 101 Privalent from RNAM, Compensate through RDP. 102 Privalent variable Bills and r 270° Privalent 201 to 104 27 m. 103 Privalent variable Bills and r 270° Privalent 201 to 104 27 m. 104 Privalent 201 Privalent pill, created RVU with 2000 IMM/104 bills 201 SIMM/13 SIMM/140 Privalent 201 Privalent 201 SIMM/140 Privalent 201 Privalent 201 SIMM/140 Privalent 201 Privalent 201 SIMM/140 Pr	35/11-0.2 AM 35/11-0.2 AM
1-ag-13 Deppsa Allantic	1455 1459 14	15:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 16:00	5 10 10 10 10 10 10 10 10 10 10 10 10 10	350 447 427 427 427 427 427 427 427 427 427	ET COMPRISATE TREDUCIS ROP 6.01 POOL TO CHOOSE GOP 6.01 POOL TO CHOOSE GOP 6.01 POOL TO CHOOSE GOP 15.01 MILLING 15.01 MI	100 P/V Jurget from RVAMC, Compensate through RDP. 101 POOL 1997 A 1997	35/11-0.2 AM 35/11-0.2 AM

11-mar-19 Deepsea Atlantic 11-mar-19 Deepsea Atlantic	18:30 18:20	18:45 18:30	10	607 418	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 RiH with Drift ASV BHA on 5 7/8" DP from 418 m to 607 m. 100 Compensate through BOP, L/D double to RCWM. 100 RiH with Drift ASV BHA on 5 7/8" DP from 209 m to 360 m.	35/11-B-12 AH 35/11-B-12 AH
1-mar-19 Deepsea Atlantic	18:10	18:20	10	361	6 RIH CH	100 RIH with Drift ASV BHA on 5 7/8" DP from 209 m to 360 m.	35/11-B-12 AH
1-mar-19 Deepsea Atlantic	17:55	18:10	15	209	6,82 RIH with BHA	100 RIH with Drift ASV BHA on 5 7/8" HWDP from 24 m to 209 m. P/U and M/U Drift ASV BHA. Use Csg tong on several connection. P/U Bumper assy and Jar	35/11-B-12 AH
I-mar-19 Deepsea Atlantic	17:15	17:55	40	24	6,1 MAKE UP BHA	100 assy, RiH with same.	35/11-B-12 AH
I-mar-19 Deepsea Atlantic	17:00	17:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38.01 CLEAN AND CLEAR RIGFLOOR	100 Prejob meeting prior to make up Drift ASV BHA.	35/11-B-12 AH
-mar-19 Deepsea Atlantic	16:30	17:00	30	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear DF. Meanwhile prepare Drift BHA on deck. POOH with Mill ASV BHA on 5 7/8" HWDP and 6 1/2" DC, from 234 m. Install Handlingsub	35/11-B-12 AH
mar-19 Deepsea Atlantic	15:30	16:30	60	0	6,83 POOH with BHA	100 on Jar, L/D on RCWM. L/D Mill assy.	35/11-B-12 AH
						POOH with mill assy on 5 7/8" dp from 390 m to 234 m. Training new personel on tripping 100 in drillers chair.	
mar-19 Deepsea Atlantic	15:20	15:30	10	234	6,08 POOH CH reduced speed	100 in driter's chair. P/U singel from RCWM. Compensate through BOP. Training new personel on tripping in	35/11-B-12 AH
-mar-19 Deepsea Atlantic	15:10	15:20	10	350	6,74 COMPENSATE THROUGH BOP	100 drillers chair.	35/11-B-12 AH
	14:50	15:10				POOH with mill assy on 5 7/8" dp from 632m to 390m. Training new personel on tripping in 100 drillers chair.	35/11-8-12 AH
-mar-19 Deepsea Atlantic	14:50	15:10	20	390	6,08 POOH CH reduced speed	100 drillers chair.	35/11-B-12 AH
						Milling ASV, 2000 lpm/ 30 bar, start boost riser with 1000 lpm. Use several different	
-mar-19 Deepsea Atlantic	13:45	14:50	65	632	35,01 MILLING	100 paramenters 0-10 ton on bit, 60-140 rpm. No progress and low torque. Decide to POOH.	35/11-B-12 AH
-mar-19 Deepsea Atlantic	13:35	13:45	10	631	6,41 FLOW CHECK	100 Flow check, well statick. Start milling ASV, 2000 Ipm/ 32 bar, 2 ton WOB, 60-140 rpm, 2-8 kNm torque. Observve 20	35/11-B-12 AH
mar-19 Deepsea Atlantic	13:00	13:35	35	631	35,01 MILLING	100 overpull and 30kmm torque when pull of bottom.	35/11-B-12 AH
	12:30		30			Engage top drive, fill pipe, take down/up weight 88/90 ton and tag top of fish @ 631,9 m 100 corrected by tide.	35/11-8-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	12:30	13:00 12:30	30 10	631	6,23 ENGAGE TOP DRIVE AND LAND TOOLS 6 RIH CH	100 corrected by tide. 100 RIH with Mill BHA on 5 7/8" DP from 234 m to 348 m. I/D singel to RCWM.	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Atlantic	12:10	12:20	10	387	6,74 COMPENSATE THROUGH BOP	100 Compensate throug BOP. 100 Rith with Mill BHA on 5 7/8" DP from 234 m to 348 m.	35/11-B-12 AH
mar-19 Deepsea Atlantic	12:00	12:10	10	348	6 RIH CH	100 RIH with Mill BHA on 5 7/8" DP from 234 m to 348 m.	35/11-B-12 AH
mar-19 Deepsea Atlantic	11:00	12:00	60	234	6.1 MAKE UP BHA	P/U and M/U Mill BHA. RIH with 2 stand 6 1/2" DC, P/U and M/U jar, remove XO and RIH 100 with 5 7/8" HWDP.	35/11-B-12 AH
mar-19 Deepsea Atlantic	10:45	11:00	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Project meeting prior to RIH with MIII ASV BHA. 100 Clean and clear DF. Meanwhile prepare next BHA on deck.	35/11-B-12 AH
mar-19 Deepsea Atlantic	10:25	10:45	20	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear DF. Meanwhile prepare next BHA on deck. POOH wet with D-spear BHA on 5 7/8" HWDP from 207 m. L/D D-spear BHA to RCWM.	35/11-B-12 AH
mar-19 Deepsea Atlantic	10:10	10:25	15	0	6,83 POOH with BHA	POOH wet with D-spear BHA on 5 7/8" HWDP from 207 m. L/D D-spear BHA to RCWM. 100 Prominent indications that Taper Mill had tagged junk.	35/11-B-12 AH
mar-19 Deepsea Atlantic	10:00	10:10	10	207	6.08 POOH CH reduced speed	100 POOH wet with D.cnear RHA on 5.7/8" DP from 359 m to 207 m	35/11-B-12 AH
mar-19 Deepsea Atlantic	09:45	10:00	15	359	6,74 COMPENSATE THROUGH BOP	100 P/U double from RCWM. Compensate through BOP.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	09:35	09:45	10	396	6,08 POOH CH reduced speed 6,41 FLOW CHECK	100 POOH wet with D-spear BHA on 5 7/8" DP from 625 m to 396 m. 100 Flowcheck, well static.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	09:20	09:35	15	625	6,41 FLOW CHECK	100 Flowcheck, well static. Connect TD, fill pipe. Record up/down weight: 86/85 ton. Start circulate with 500 LPM/ 16	35/11-B-12 AH
						bar, RiH and tag top of fish with 5 ton @ 632 m. Observed pressure increased, pull up and	
						retry with 10 RPM/ 1 KNM, 500 LPM/ 16 bar. Sat down 5 ton, pressure increase. Retry	
10 D Mark	07-20	00.20	110	633	AD DA FIGURE OTHERS	several times with 5-10 ton, 10-20 RPM, pressure increase every time, not able to enter top 100 of fish.	35/11-8-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	07:30 07:10	09:20 07:30	110 20	632	19,01 FISHING, OTHERS 6 RIH CH	100 of fish. 100 Cont RIH on 5 7/8" DP from 396m to 605m.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	07:05	07:10	5	396	6,74 COMPENSATE THROUGH BOP	100 Compensate trough BOP from 359m to 396m.	35/11-B-12 AH
mar-19 Deepsea Atlantic	07:00	07:05	5	359	6 RIH CH 6,82 RIH with BHA	100 Cont RiH on 5 7/8" DP from 207m to 359m.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	06:45 05:45	07:00 06:45	15 60	207	6,82 RIH WITH BHA 6,1 MAKE UP BHA	100 RiH with spear assy on 5 7/8" HWDP from 22m to 207 100 Make up spear BHA and rebuild some pices.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	05:30	05:45	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to RIH with spear assy.	35/11-B-12 AH
mar-19 Deepsea Atlantic	05:15	05:30	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear rigfloor. 100 Inspect magnets and lay down same. 11 kg on magnets.	35/11-B-12 AH
mar-19 Deepsea Atlantic	04:50	05:15 04:50	25	15	6,11 LAY DOWN BHA	100 Inspect magnets and lay down same: 11 kg on magnets. 100 POOH from 353 m to RKB.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	04:30 04:25	04:30	5	353	6,01 POOH CH 6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	04:00	04:25	25	391	6,01 POOH CH	100 POOH from 631 m to 391 m.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	03:45	04:00	15 35	631	6,41 FLOW CHECK 5.01 CIRCULATE HOLE CLEAN	100 Flow check. Well static. 100 Circulate one B/U with 2900 lpm / 40 bar.	35/11-8-12 AH 35/11-8-12 AH
27 Deseption Attantoc	03:10	us.+b	s	031	SOI CINCODATE HOLE CLEAN		33/11-0-12 AH
mar-19 Deepsea Atlantic	03:05	03:10	5	631	19,01 FISHING, OTHERS	100 Record up/down weight 80/72 ton. Compensate down and softtag top og cut with 2 ton. Cont RiH on 5 7/8" DP from 401m to 618m (adjust clock to summertime 02:00am -	35/11-B-12 AH
						Cont RiH on 5 7/8" DP from 401m to 618m (adjust clock to summertime 02:00am -	
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	01:50 01:45	03:05 01:50	75	618 401	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 03:00am) 100 Compensate trough BOP from 353m to 401m.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	01:25	01:45	20	353		100 Cont RiH on 57/8" DP from 12m to 353m	35/11-B-12 AH
nar-19 Deepsea Atlantic	01:20	01:25	5	12	15,04 KICK DRILL, CHOKE DRILL	100 Performe kick drill with crew.	35/11-B-12 AH
nar-19 Deepsea Atlantic	00:55	01:20	25	12	6.82 RIH with RHA	P/U flat magnet and X/O from deck. M/U flat magnet to magnet assy and RIH with same 100 from RKB to 12m.	35/11-B-12 AH
nar-19 Deepsea Atlantic	00:45	00:55	10	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean & clear drillfloor.	35/11-B-12 AH
mar-19 Deepsea Atlantic	00:00	00:45	45	0	6,11 LAY DOWN BHA	100 Breake venturi assy with rig tong and empty same. L/D Ventury junk basket to deck.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	23:25 23:00	00:00 23:25	35 25	0	6,11 LAY DOWN BHA 6,08 POOH CH reduced speed	100 Clean magnets. Breake venturi assy with rig tong and empty same. 100 POOH from 366 m to RKB. Reduced speed due to use of mudbucket.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	22:45	23:00	15	366	6.3 P/U DRILLSTRING	100 Pick up double and compensate BOP.	35/11-B-12 AH
mar-19 Deepsea Atlantic	22:30	22:45	15	422	6,08 POOH CH reduced speed	100 POOH with reduced speed due to use of mudbucket. From 625 m to 422 m.	35/11-B-12 AH
mar-19 Deepsea Atlantic	22:15	22:30	15	625	6,41 FLOW CHECK	100 Flow check. Well static. Connect Top Drive. Establish pump rate 1600 lpm. Take U/D weight 81 ton -80 ton. Continue	35/11-B-12 AH
						RIH and tag top of fish @ 632 m. Wash and reciprocate string according to baker 1600 lpm /	
mar-19 Deepsea Atlantic	21:45	22:15	30	632	5,01 CIRCULATE HOLE CLEAN	100 110 bar. 100 RIH with Venturi assy from 25 m to 366 m.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	21:30 21:15	21:45 21:30	15 15	632 422	6,07 RIH CH Reduced speed 6,31 L/D DRILLSTRING	100 KIH with Venturi assy from 25 m to 366 m. 100 Compensate through BOP and lay down double prior to tag top of fish.	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Atlantic	20:50	21:15	25	366	6 RIH CH	100 RIH with Venturi assy from 25 m to 366 m.	35/11-B-12 AH
mar-19 Deepsea Atlantic	20:35	20:50	15	25	6,1 MAKE UP BHA	100 M/U and RIH with Venturi assy from RKB to 25m.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	20:30	20:35	5 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Prejobmeeting with crew prior to RIH with venturi assy. 100 Clean and clear drillfloor after milling ASV.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Abantic	20:15	20.30	15	U		Break out and lay down iar, B/O and rack back 2 stand 6 1/2" DC, B/O and lay out Mill assy	33/11-0-12 MR
mar-19 Deepsea Atlantic	19:30	20:15	45	0	6,11 LAY DOWN BHA	100 to deck.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	19:10 19:00	19:30 19:10	20 10	86 236	6,82 RIH with BHA 6,01 POOH CH	100 POOH with Mill assy on 5 7/8" HWDP from 236 m to 86 m	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	18:45	19:00	15	365	6,74 COMPENSATE THROUGH BOP	100 POOH with Mill assy on 5 7/8" DP from 365 m to 236 m. 100 Compensate through BOP with Mill assy from 400 m to 365 m.	35/11-B-12 AH
mar-19 Deepsea Atlantic	18:15	18:45	30	400	6,01 POOH CH	100 POOH from 625m to 400m use mudbucket.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	18:00 17:00	18:15 18:00	15 60	625 625	6,41 FLOW CHECK 5.01 CIRCULATE HOLE CLEAN	100 Flowcheck, well static.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Abambic	17.00	18:00	80	023	5,01 CIRCULATE HOLE CLEAN	100 Pump 7 m³ Hi-visc pill. Circulate 1 X B/U with 2500 LPM/ 230 bar. Mill ASV with 1000-2000/ 40 LPM, 60-110, 1-12 KNM. RPM. Max 11 ton WOB. Total Milled	33/11-0-12 MH
						2 m. Milled 25 minutes without circulation(burning), due to no progress. Nozzles plugged	
						when start circulation, pressure up and work with pressure, able to circulate with reduced	
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	12:00 09:00	17:00 12:00	300 180	632	35,01 MILLING 35,01 MILLING	100 flow, 800 LPM/90 bar. 100 Mill ASV with 1000-2000/ 40 LPM, 60-110, 1-12 KNM. RPM. Max 8 ton WOB.	35/11-8-12 AH 35/11-8-12 AH
	23.00		100			Record parameters, up/down weight: 93/91 ton, 20 RPM/1 KNM, Up/down weight with 20	,
						RPM: 92/92 ton: 1000 LPM/ 13 bar: 2000 LPM/ 39 bar: 3000 LPM/ 80 bar: RIH and tag top	
nar-19 Deepsea Atlantic	08:45	09:00	15	630	35,01 MILLING	of fish @ 630 m, pull up and establish milling parameters, 2000 LPM/ 38 bar. 80 RPM/ 2 100 KNM. 2 ton WOB. Boost Riser with 1000 LPM.	35/11-B-12 AH
						Displace Booster. Displace well to 1,38 Sg WBM with 3000 LPM/ 80 bar. Total pumped 86	
nar-19 Deepsea Atlantic	07:30	08:45	75	620	5,02 DISPLACE WELL/RISER	100 m ³ . U-tube kill and choke. Empty triptank's and fill with 1,38 Sg OBM.	35/11-B-12 AH
nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic	07:15 07:00	07:30 07:15	15 15	620 620	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6 RIH CH	100 Prejob meeting prior to displace well to 1,38 Sg WBM. 100 Cont RiH on 5 7/8" DP from 416m to 620 m.	35/11-B-12 AH 35/11-B-12 AH
nar-19 Deepsea Atlantic	06:50	07:00	10	416	6,31 L/D DRILLSTRING	100 I /D single 5.7/8" DP to RCWM	35/11-B-12 AH
nar-19 Deepsea Atlantic	06:40	06:50	10	416	6,74 COMPENSATE THROUGH BOP	100 Compensate troug BOP from 350m to 388m.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	06:35 06:15	06:40 06:35	5 20	350 235	6 RIH CH 6,82 RIH with BHA	100 Cont. RIH on 5 7/8" DP from 235m to 350m.	35/11-8-12 AH 35/11-8-12 AH
	06/15	ue:a5	20	433		100 RiH wit Junk Mill on 5 7/8 HWDP from 85 m to 235 m Pick Junk Mill. Break out pup joint on top of mill assy and lay down. Install 2 stand 6 1/2" DC,	33/11-0-12 AH
nar-19 Deepsea Atlantic	05:20	06:15	55	85	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 X-Over, and Jar.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	05:15 05:00	05:20 05:15	5 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 25,22 DROP's Inspection	100 Prejob meeting prior to RIH with Mill assy and mill ASV. 100 Perform drops on Top Drive after jaring.	35/11-B-12 AH 35/11-B-12 AH
or seeped Abdition	03:00	UJ.43	15	U			year-wee MIT
						Change to manual slips. Pull BHA slowly through rotary. Comfirm no fish. Inspect spear,	
nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic	04:00	05:00	60 40	26	6,11 LAY DOWN BHA 6.08 POOH CH reduced speed	100 observed wear and tear on spear. Break out and lay down Jar, bumper and spear assy. 100 BOOM from 421 m to 25 m. With proof your Boths left around a transf	35/11-8-12 AH 35/11-8-12 AH
nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic	03:20	04:00	40 10	26 365	6,08 POOH CH reduced speed 6,3 P/U DRILLSTRING	100 POOH from 431 m to 26 m. With spear assy. Rotate left every 3 strand 100 Pick up double and compensate through BOP.	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Atlantic	02:50	03:10	20	431	6,08 POOH CH reduced speed	100 POOH from 636 m to 431 m. With spear assy. Rotate left every 3 strand	35/11-B-12 AH
						M/U TD to string and fill pipe. Take up/down weights 92/89ton. Compensate down and slowly enter fish. Tag top of fish with NoGo. Engage B-Spear to fish according to Baker	
						representativ. Attempt to pull fish free. B-spear lost grip @ 25 ton overpull. P/U 2m befor	
						running back down to engade spear again. P/U 20 ton overpull and wait 5min for jar to bled	
						down. Fish lost grip. Latch to fish again and P/U 17-40 ton overpull in steps. Jar hit after	
	01:30	02:50	80	636	19,01 FISHING, OTHERS	30min. Fish not loose. P/U to 170 ton overpull in steps. Observed that all weight disappear. 100 POOH to check status.	35/11-B-12 AH
nar-19 Deepsea Atlantic							
		01:30	30	610	6,07 RIH CH Reduced speed	100 Cont. RiH on 5 7/8" DP from 424m to 610m. Reduced speed due to potential junk in well. 100 L/D dobbel on first 5 7/8" STD.	35/11-B-12 AH
nar-19 Deepsea Atlantic	01:00	01:00	10	424	6,31 L/D DRILLSTRING 6,74 COMPENSATE THROUGH BOP	100 Compensate troube BOP from 366m to 404m.	35/11-8-12 AH 35/11-8-12 AH
nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic	00:50		5	404 366	6,74 COMPENSATE THROUGH BOP 6,1 MAKE UP BHA	100 Compensate troung BUP from 3-bim to 404m. 100 RIH with Spear assy/BHA on 5-7/8" HW from 0-366m. Adjust HR to stab accurate.	35/11-B-12 AH 35/11-B-12 AH
nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic		00:50 00:45	45				
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	00:50 00:45 00:00	00:50 00:45	45		6,1 MAKE UP BHA	100 P/U modified B-spear from deck and make up to spear assy. RIH with Spear assy BHA.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	00:50 00:45	00:50	45	0		Modify B-spear in weldershop. Meanwhile perform maintenance, claen and clear on 97 driffloor. Performe DROPS on main HR.	
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45	00:50 00:45 00:00			41.01 WAIT ON 3.PART		35/11-B-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00	00:50 00:45	45 15 75	0	41,01 WAIT ON 3.PART		35/11-B-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45 22:30	00:50 00:45 00:00 23:45	75	0		POOH with spear assy and check for fish from 213 m to RKB. Pull slowly according to baker	
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45	00:50 00:45 00:00			41,01 WAIT ON 3.PART 6,11 LAY DOWN BHA	POOH with spear asy and check for fish from 213 m to RKB. Pull slowly according to baker 100 rep.Boost riser while POOH. No fish. Breake out NOGO and modify same in welder shop.	35/11-B-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45 22:30 21:30	00:50 00:45 00:00 23:45 22:30 21:30	75 60 15	0 0 213	6,11 LAY DOWN BHA 6.08 PODH CH reduced seeed	POOH with spear assy and check for fish from 213 m to RKB. Pull slowly according to baker 100 rep.Boost riser while POOH. No fish. Breake out NOGO and modify same in welder shop. POOH with spear assy and check for fish from 365 m to 213m. Pull slowly according to baker 100 ren. Turn string the ever's 3 stank book riser while POOH.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45 22:30	00:50 00:45 00:00 23:45 22:30	75 60	0	6,11 LAY DOWN BHA	POOH with spear axey and chack for fish from 213 m to RKB. Pull slowly according to baker 100 reg. Boost riser white POOH. No fish, Breake out NoGO and modify same in welder shop. POOH with spear axed chack for fish from 556 m to 123m. Pull slowly according to baker 100 reg. Turn string left every 3 stands Boost riser white POOH. 100 PKI up double and compensate through Why Hand SDP.	35/11-8-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45 22:30 21:30 21:15 21:00	00:50 00:45 00:00 23:45 22:30 21:30 21:15	75 60 15 15	0 0 213 365	6,11 LAY DOWN SHA 6,08 POOH CH reduced speed 6,3 P/U DRILLSTRING	POOH with spars assy and check for fish from 213 in to RRIZ. Pull solvely according to baker 100 in sp. boots rise while POOH to fis fish. Revise out NDOD and modify same in weither stop. POOP with space as you and check for fish fin to 35 in to 215 in. Pull listely according to baker 100 insp. In mit strip gift every 3 stand, 800 or for while POOP. POOP with state are as well ded to the ST fish find ST in to 450. Pull State According to baker to the state of the ST in t	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45 22:30 21:30	00:50 00:45 00:00 23:45 22:30 21:30	75 60 15	0 0 213	6,11 LAY DOWN BHA 6.08 PODH CH reduced seeed	POOR with spear anay and sheek for fin from 213 m to RRE. Pull Slowly according to balar 100 reg Boost rise with POOR file file. Be the seek and NOGO and motify same in weder shop. POOR with spear any and extent for file file. Sin File. Pull Seek years described to 100 reg. Turn string file fevery 3 stand Boost dire while POOR. 100 Pieu year described and companies the things filt was 400. All following seconding to balar 100 reg. Turn string file fevery 3 stand Boost dire while POOR. 100 reg. Turn string file fevery 3 stand Boost dire while POOR. MUT to be string and filing size displaced specifies (248 Boost Companies down and MUT to be string and filing size displaced specifies (248 Boost Companies down and 100 reg. Turn string size specifies (100 Boost 100 Boost 1	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45 22:30 21:30 21:15 21:00	00:50 00:45 00:00 23:45 22:30 21:30 21:15	75 60 15 15	0 0 213 365	6,11 LAY DOWN SHA 6,08 POOH CH reduced speed 6,3 P/U DRILLSTRING	POON with spear assigned shocks for fish from 211 m to REE. Pall showly according to balant pool to be provided to the pool to the control of POOP and modify aware in welfer 2016. 200 mg. The not stripp lift every 150 mg. The provided to POOP and modify aware in welfer 150 mg. 200 mg. The not stripp lift every 150 mg. The provided to POOP and modify all welfer good 150 mg. The stripp and pool and extra Book of the real host pool and the provided to balant POOP and the proper page and extra for the from 50 mg. The strip 200 mg. 200 mg. The provided to POOP and the provided to th	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 23:45 22:30 21:30 21:15 21:00 20:30	00:50 00:45 00:00 23:45 22:30 21:30 21:15 21:00	75 60 15 15 30	0 213 365 420	6.11 LAY DOWN BIAA 6.08 POOH CH reduced speed 6.3 P/U DRILSTRING 6.08 POOH CH reduced speed	PCOS with signar are yet of Neck Ser fish Nov.13.1 https://doi.org/10.1006/j.com/ing.1006/j.com/ing.1006/j.com/	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	00:50 00:45 00:00 00:00 23:45 22:30 21:30 21:15 21:00 20:30	00:50 00:45 00:00 23:45 22:30 21:30 21:15 21:00 20:30 19:50	75 60 15 15 30	0 213 365 420	6.11 LAY DOWN BMA 6.08 PODIC Of reduced speed 6.3 P/U DBILSTRING 6.08 PODIC Of reduced speed 19.03 PODICHES 6.08 PODICHES	POOH with spear assigned shocks for fish from 213 m to REE. Pull showly according to baller 200 ray flower river with POOH. The fish. Shocks and NODO and modify save in wideler 200, 200 ray. The strong life way 150 ray flowers and the Shock and shock and shock and shock and 200 ray. The strong life way 150 rates flowers from 150 ray flowers flowers from 150 ray flowers from 150 ray. The strong was decomposed the flowers from 150 ray flowers flowers from 150 ray flowers from 150 ray flowers from 150 ray flowers flowers flowers flowers flowers flowers flowers flower flowers	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
ma-19 Despisa Affantic ma-19 Sepisa Affantic	00:50 00:45 00:00 23:45 22:30 21:30 21:15 21:00 20:30	00:50 00:45 00:00 23:45 22:30 21:30 21:15 21:00	75 60 15 15 30	0 213 365 420	6.11 LAY DOWN BIA 6.08 PODY Of reduced speed 6.3 Pyl DRILSTRING 6.08 PODH Of reduced speed 19,01 RSHNG, OTHERS	POOH with spear anay and check for fish from 213 m to RRE. Pull slowly according to balar properties of the properties o	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH

19-mar-19 Deepsea Atlantic 19-mar-19 Deepsea Atlantic	17:00 16:45	19:00 17:00	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 P/U and M/U B-spear BHA according to Baker plan. 100 Prejob prior to RIH with B-spear BHA.	35/11-8-12 AH 35/11-8-12 AH
3.mar-19 Deensea Atlantic	16:30 16:20	16:45 16:30	15 10	0	11,02 RIG UP OR DOWN FOR WIRELINE 25.3 PREJOBMEETING - BRIEF/DEBRIEF	97 Rig down WL toolstring and sheavs. 100 Projob prior to rig down WL equipment.	35/11-B-12 AH 35/11-B-12 AH
I-mar-19 Deepsea Atlantic	16:20	16:30	10	0		100 Prejob prior to ng down WL equipment. POOH with camera to 381 m and use camera inside BOP. Cont. POOH to 100 m, deactivate	
-mar-19 Deepsea Atlantic	15:00	16:20	80	0	11,03 WL OPERATIONS	97 compensator and POOH to surface.	35/11-B-12 AH
						Cont. RIH with camera on wireline through BOP and check for more debris in BOP. RIH to	
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	13:00 12:00	15:00 13:00	120 60	0	11,03 WL OPERATIONS 11,03 WL OPERATIONS	97 600m and use camera to check condition on top of tubing and inside fish. 97 Observed part of controlline in Upper annular. Evaluate situation.	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Abambo	12:00	15.00	80		11,03 WE OPERATIONS	RIH with camera on WL to 100 m, start compensating and continue RIH to 600 m. Observed 97 peace of controlline in Upper annular. Evaluate situation.	33/11-0-12 MI
mar-19 Deepsea Atlantic	11:30	12:00	30	0	11,03 WL OPERATIONS	97 peace of controlline in Upper annular. Evaluate situation.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	11:00 10:45	11:30 11:00	30 15	0	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 Rig up wireline equip. and test toolstrring prior to RIH. 100 Prejob meeting prior to rig up and RIH with wireline toolstring.	35/11-B-12 AH 35/11-B-12 AH
					11.02 RIG UP OR DOWN FOR WIRELINE	Wait on wireline to change wire drum and cablehead for running inspection camera. 97 Meenwhile install bumper structure in aux. Perform NDT on main HR.	
-mar-19 Deepsea Atlantic	07:00	10:45	225	0	11,02 RIG UP OR DOWN FOR WIRELINE	97 Meenwhile install bumper structure in aux. Perform NDT on main HR. Change wireline drum. Meanwhile install bumper structure in aux. General maintanance and	35/11-B-12 AH
9-mar-19 Deepsea Atlantic	06:00	07:00	60	0	11,02 RIG UP OR DOWN FOR WIRELINE	97 DROPS check on rigfloor.	35/11-B-12 AH
						Pull out the last 100 metres. Rig down logging string. Test camera tool on cable head. 97 Decided to change wireline drum.	35/11-B-12 AH
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	04:35	06:00 04:35	5	0	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 Decided to change wretine drum. 100 Pre job meeting prior to lay down toolstring.	35/11-B-12 AH 35/11-B-12 AH
9-mar-19 Deepsea Atlantic	01:00	04:30	210	0	11.01 WIRE LINE LOGGING	RIH to 100 m and activate compensator. Continue RIH and record 70 m IBC repeat pass from 97 600 m. Record main pass from 600 m. POOH to 100 m. Deactivate compensator.	35/11.R.12 AH
9.mar.19 Deensea Atlantic	00:00	01:00	60	0	11.02 RIG UP OR DOWN FOR WIRELINE	97 Continue to rig up wireline toolstring.	35/11-8-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	23:40 23:30	00:00 23:40	20 10	0	11,02 RIG UP OR DOWN FOR WIRELINE 25.3 PREJORMEETING - BRIEF/DEBRIEF	97 Rig up for wireline operaions. 100 Prejobmeeting with involved personell prior to R/U wireline	35/11-8-12 AH 35/11-8-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	23:30	23:30	30	0	6,11 LAY DOWN BHA	100 Prejobmeeting with involved personell prior to K/U wretine 100 Remove autoslips. POOH with cleanout assy. Inspect same and lay down to deck.	35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic	22:30	23:00	30	25	6,01 POOH CH	100 POOH from 360 m to RKB	35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	22:15 22:05	22:30 22:15	15 10	360 422	6,74 COMPENSATE THROUGH BOP 6,01 POOH CH	100 Pick up double 5-7/8" DP and compensate through BOP. 100 POOH from 623 m to 422 m.	35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic	21:55	22:05	10	623	6,41 FLOW CHECK	100 Flow check well prior to POOH. Well static	35/11-B-12 AH
						Empty triptank's, fill triptank 1 with seawater. Prepare pit's for displacing. Displace and	
8-mar-19 Deepsea Atlantic	18:30	21:55	205	623	5,02 DISPLACE WELL/RISER	100 circulate hole clean enough prior to run camara on wire line. Total pumped 9500 strokes.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	18:15	18:30	15	623	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting prior to displace to Seawater.	35/11-B-12 AH
						Connect TD, fill pipe. Record up/down weight: 83/82 ton. Establish circulation 2000 LPM/ 100 bar. RH and enter ton of 5th @ 630.4 m in 0.5 m stees, reduced flow to 1000 LPM/24	
						100 bar, RiH and enter top of fish @ 630,4 m in 0,5 m steps, reduced flow to 1000 LPM/ 24 bar 1 m before tag top of fish with nogo. Tag top of fish with 1 ton, observed pressure	
	47.55	10-15		630	ADDA FIGURE OTHERS	increaser. Pull Taper mill above top of fish, start rotate with 20 RPM/ 2 KNM. 3000 LPM/180 100 bar.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	17:25 17:15	18:15 17:25	50 10	630 611	19,01 FISHING, OTHERS 6 RIH CH	100 RIH with Drift ASV BHA from 422 m to 611 m on 5 7/8" DP.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	17:15 17:00	17:25 17:15	10 15	611 422	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP, L/D double to RCWM.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	16:45	17:00	15	360	6 RIH CH	100 RIH with Drift ASV BHA to 360 m on 5 7/8" DP.	35/11-B-12 AH
						P/U and M/U Drift ASV BHA. B/O cutter and spear from BHA. P/U and install taper mill, 4 x	
						extension subs and XO's, M/U to Persus BHA assy. RIH with same. P/U and M/U Jar assy.	
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	14:00 13:45	16:45 14:00	165 15	25	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 B/O and M/U several connection/ different OD with Casing tong. 100 Preiob meeting prior to M/U Drift ASV.	35/11-B-12 AH 35/11-B-12 AH
				,			
8-mar-19 Deepsea Atlantic	12:45	13:45	60	0	6 RIH CH	100 M/U connection with rigtongs. R/B in derrick. POOH with 8 1/2" Venturi on 5 7/8" HWDP from 210m to RKB. Pulled Venturi junk basket	35/11-B-12 AH
						above RF and Baker Fishing representative inspect same. Meawhile held prejobmeeting for	
8-mar-19 Deepsea Atlantic	12:30	12:45	15	0	6,19 POOH With WDP		35/11-8-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	12:20 12:00	12:30 12:20	10 20	210 362	6,01 POOH CH 6,74 COMPENSATE THROUGH BOP	100 POOH with Venturi Junk Basket from 362 m to 210 m on 5 7/8" DP. 100 P/U double to RCWM. Compensate through BDP.	35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic	12:00	12:00	15	420	6,01 POOH CH	100 POOH with Venturi Junk Basket from 628 m to 420 m on 5 7/8" DP.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	11:35	11:45	10	625	6,41 FLOW CHECK	100 Flowcheck, wel static. Connect TD. Fill pipe and break circulation. Establish circulation, 1700 LPM/ 100 bar. RiH and	2E/11.B.12.AU
						Connect TD. Fill pipe and break circulation. Establish circulation, 1700 LPM/ 100 bar. RiH and soft tag with 2 ton @ 630,4 m, pull up 4 m and stop circulation, wait for 2 minutes. Repeat 1	1
						time. RiH to 1 m above top fish with 1900 LPM/ 120 bar 15 RPM/ 1 KNM, oull up 4 meters.	
8-mar-19 Deepsea Atlantic	10:45	11:35	50	628	19,01 FISHING, OTHERS	100 repeat 3 times. 100 RIH with Venturi Junk Basket run #2 from 420 m to 628 m on 5 7/8" DP.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	10:30 10:20	10:45 10:30	15 10	628 420	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 KIH with Venturi sunk Basket run #2 from 420 m to 628 m on 5 7/8" DV. 100 Compensate through BOP, L/D double to RCWM.	35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic	10:10	10:20	10	362	6 RIH CH	100 RIH with Venturi Junk Basket from 210 m to 362 mon 5 7/8" DP.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	10:00	10:10	10	210	6,82 RIH with BHA	100 RIH with Venturi Junk Basket run #3 to 210 m on 5 7/8" HWDP.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	09:40	10:00	20	0	6,1 MAKE UP BHA	100 M/U connection on venturi BHA with rigtongs. B/O Venturi Junk Basket. Completely full of debris 11,5 kg.(Completion clamps/parts).	35/11-B-12 AH
3-mar-19 Deepsea Atlantic	08:40	09:40	60	0	6,11 LAY DOWN BHA	100 Emptyed same and decided to rerun	35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	08:30	08:40	10	0	6,83 POOH with BHA 6.01 POOH CH	100 POOH with Venturi Junk Basket from 210 m on 5 7/8" DP. 100 POOH with Venturi Junk Basket from 362 m to 210 m on 5 7/8" DP.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	08:20 08:15	08:30 08:20	10 5	420 362	6,74 COMPENSATE THROUGH BOP	100 P/U double to RCWM. Compensate through BOP.	35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic	08:05	08:15	10	420	6,01 POOH CH	100 P/U double to RCWM. Compensate through BDP. 100 POOH with Venturi Junk Basket from 628 m to 420 m on 5 7/8" DP.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	07:55	08:05	10	628	6,41 FLOW CHECK	100 Flowcheck, well static. Connect TD. Fill pipe and break circulation. Establish circulation, 1700 LPM/ 100 bar. RIH and	35/11-B-12 AH
						soft tag with 2 ton @ 630,4 m, pull up 4 m and stop circulation, wait for 2 minutes. Repeat 1	
						soft tag with 2 ton @ 630,4 m, pull up 4 m and stop circulation, wait for 2 minutes. Repeat 1 time. RIH to 1 m above top fish with 1900 LPM/ 120 bar 15 RPM/ 1 KNIM, pull up 4 meters,	
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	07:15 07:05	07:55 07:15	40 10	630 628	19,01 FISHING, OTHERS 6 RIH CH	100 repeat 3 times. 100 RIH with Venturi Junk Basket run #2 from 420 m to 628 m on 5 7/8" DP.	35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic	06:50	07:05	15	420	6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP, L/D double to RCWM.	35/11-8-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	06:40	06:50	10	362 210	6 RIH CH 6.82 RIH with BHA	100 RIH with Venturi Junk Basket from 210 m to 362 mon 5 7/8" DP. 100 RIH with Venturi Junk Basket to 210 m on 5 7/8" HWDP.	35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic	06:15	06:30		0	6,13 TRAINING WITH MANUAL RIG TONGS	100 M/U connection on venturi BHA with rigtongs.	35/11-8-12 AH
8-mar-19 Deepsea Atlantic	06:00	06:15	15 15	0	6,13 TRAINING WITH MANUAL RIG TONGS 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Preiob meeting with new crew prior to M/U connection with rigtongs.	35/11-8-12 AH
8-mar-19 Deepsea Atlantic	05:15	06:00	45	4	6,11 LAY DOWN BHA	B/O Venturi Junk Basket. Completely full of debris(Completion clamps/parts). Emptyed same 100 and decided to rerun.	35/11-B-12 AH
						POOH with 8 1/2" Venturi on 5 7/8" HWDP from 210m to RKB. Pulled Venturi junk basket	
						above RF and Baker Fishing representative inspect same. Meawhile held prejobmeeting for	
8-mar-19 Deepsea Atlantic	04:45	05:15	30	25	6,83 POOH with BHA	100 B/O BHA. POOH with Venturi on 5 7/8" DP from 608m to 210m. Compensatet through BDP. Restricted	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	04:15	04:45	30	210	6,08 POOH CH reduced speed	100 runningspeed due to clamps/parts in hole. 100 Flow check well for 10 min. Well static.	35/11-B-12 AH
8-mar-19 Deepsea Atlantic	04:00	04:15	15	628	6,41 FLOW CHECK	100 Flow check well for 10 min. Well static.	
			15				35/11-B-12 AH
	03:30		15			Start compensating and take up and down weight. 89/88 ton. Slide down and tag top of fish with 2 ton 66-50 4m. Correlated for tide. Parameters 1700 ton /100 har. Wash and	
8-mar-19 Deepsea Atlantic		04:00	30	628	19,01 FISHING, OTHERS	Start compensating and take up and down weight. 89/88 ton. Side down and tag top of fish with 2 ton @630,4m. Correlated for tide. Parameters 1700/pm/100bar. Wash and 100 resolerocate according to Baker fisher representative.	
			30			Start compensating and take up and down weight. 89/88 ton. Slide down and tag top of fish with 2 ton @630,4m. Correlated for ticle. Parameters 1700(pm/100bar. Wash and 100 respiprocate according to Baker fisher representative. Preiob before clean out on too of fish. Debrief after triconies. Meanwhile enease TD and fill.	35/11-B-12 AH 35/11-B-12 AH
	03:15	04:00		628	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Start compensating and take up and down weight. 89/88 ino. Side down and tag top of fish with 2 not @630.4m. Correlated for fish. Parimeters 1700(pm)/100%. What and 100 respireocate according to Balar fisher representative. Projob before clean our top of fish - Debrief after tripping. Meanwhile engage TD and fill 100 string. 8H with Venturi on 5 1/\$F DP from 210th to 560th. Compensated through 8DP. Restricted	35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	03:15	03:30	30 15 45	608	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6.07 RIH CH Reduced speed	Start compensating and take up and down weight. 89/88 ino. Side down and tag top of fish with 2 not @630.4m. Correlated for fish. Parimeters 1700(pm)/100%. What and 100 respireocate according to Balar fisher representative. Projob before clean our top of fish - Debrief after tripping. Meanwhile engage TD and fill 100 string. 8H with Venturi on 5 1/\$F DP from 210th to 560th. Compensated through 8DP. Restricted	35/11-B-12 AH 35/11-B-12 AH 35/11-B-12 AH 35/11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	03:15 02:30 02:00	03:30 03:15 02:30	30 15 45 30	608 608 210	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,07 RIH CH Reduced speed 6.82 RIH with BHA	Sant compensating and task up and down weight. 89/188 inn. Still down and day to got for with 2 for 850 ket. Cercified from the fire Permisers 19/199/10/2004. We will a got of the still be s	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	03:15 02:30 02:00 01:45 01:30	03:30 03:15 02:30 02:00 01:45	30 15 45 30 15	608 608 210 62 25	25,3 PREI/DBMEETING - BRIEF/DEBRIEF 6,07 RIH CH Reduced speed 6,82 RIH with BHA 6,82 RIH with BHA 6,1 MAKE UP BHA	Sart compensating and rails are gained down weight. BMR too. Safe down and gain got of the with 2 for gained (Safe), an Commission for the Presenters of 1900/1900 with and program of the 1900 of t	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	03:15 02:30 02:00 01:45	03:30 03:15 02:30 02:00	30 15 45 30	608 608 210	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,07 RIH CH Reduced speed 6.82 RIH with BHA	Start compressing and start are gard down weight. PMS to 1.55td down wide by tay of the Month To 2 and Edition. Combasted and the Parameters 170 (MICHOLOR Visits and 150 MICHOLOR VISIT AND	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
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8-mar-19 Deepsea Atlantic 7-mar-19 Deepsea Atlantic	03:15 02:30 02:00 01:45 01:30 01:15 00:00	03:30 03:15 02:30 02:00 01:45 01:30 01:15	30 15 45 30 15 15	608 608 210 62 25 0	25,3 PREDBMETTING - BRIEF/DEBREF 627 BRICH Induced Speed 628 BRIEFIND 628 BRIEFIND 628 BRIEFIND 629 BRIEFIND 63,3 PREDBMETTING - BRIEF/DEBREF 73,3 PREDBMETTING - BRIEF/DEBREF 44,2 WAT ON RISTRACTIONS 44,2 WAT ON RISTRACTIONS	Start compensating and call as up and down weight. BMR to 1564 down and up top of the view 1 have perfectly for commander for the Parameters Y (DMP) (DMD). What has Proptib before clean not are top of fair. Datheri after tripping. Meanwhite engage TD and RE 100 string. Bits with Versarium and 3 TP FOP FOR not 20 to 150 for 150 f	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
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Binari 3) Deppus Atlantic Ilmari 3 Deppus Atlantic Ilmari 4 Deppus Atlantic Ilmari 4 Deppus Atlantic Ilmari 5 Deppus Atlantic Ilmari 6 Deppus Atlantic Ilmari 7 Deppus Atlantic Ilmari 8 Deppus Atlantic Ilmari 8 Deppus Atlantic Ilmari 8 Deppus Atla	03:15 (03:30 (03:30 (03:40	01.30 01.15 02.30 02.30 02.00	15 45 30 15 15 15 15 15 15 15 15 15 15 15 15 15	608 568 568 622 1210 0 0 0 0 9 4410 440 440 440 583 385 385 585 581 581 581 581 581 581 581 581 5	25.3 PRECIDENTING - BRIEF/CERREF 6.07 BIT VITE OF STATE	Start consequencing and call as any and down weight (1974) to 1.556 down and by tay of the Start consequence according to base first representations. People before clean on on the cell fine 3-before district proper, Montmeller senger To and 18 (2014) and 1974 and	30/18-02 AM 30/18-
emar-19 Despos Affante	03:15 (03:00 (03	03.30 01.15 02.30 02.00	15 46 46 15 15 15 15 15 15 15 15 15 15 15 15 15	608 608 608 608 608 608 608 608 608 608	25.3 PRECIDENTIFIC - SHEET/CHRIEF 6.07 BIR OF LINE BIRG. 6.22 Bir Ham Birg. 6.23 Bir Ham Birg. 6.24 Bir Ham Birg. 6.24 Bir Ham Birg. 6.25 Bir Ham Birg. 6.25 Bir Ham Birg. 6.25 Bir Ham Birg. 6.25 Bir Ham Birg. 6.27 Birg. 6.27 Birg. 6.27 Birg. 6.28 Bir Ham Birg. 6.28 Bir Ham Birg. 6.21 Birg. 6.28 Birg. 6.21 Birg. 6.28 Birg. 6.29 Birg. 6.20 B	Start consequencing and call assign and does wealth (1978) to 1556 does not be by the off the Start consequence according to Balan Furl representative. People before clean on on the cell fine - Debrid After typings. Movementie energies To and 18 according to Balan Furl representative. People before clean on on the cell fine - Debrid After typings. Movementie energies To and 18 according to 15	30/18-02 AM

27-mar-19 Deepsea Atlantic	04:30	05:00	30	612	11,02 RIG UP OR DOWN FOR WIRELINE	97 Break out wire line toolstring and L/D to RCWM. 35/11-B-12 AH	
						Pull out of hole with wireline toolstring. Stop at 100m and deactivate heave compensator.	
27-mar-19 Deepsea Atlantic	04:00	04:30	30	612	11,03 WL OPERATIONS	97 Cont. out of hole to 50m, meenwhile perform prejobmeeting prior to break out toolstring. 35/11.8-12 AH RHH with wireline toolstrings to cut depth @ 629.5m and perform CCL correlation. Cut tubing @0310HRS acc. WECT and despender procedure. Release another and free cutters from tubing	
27-mar-19 Deepsea Atlantic	00:45	04:00	195	612	11,03 WL OPERATIONS	grossomers acc. WEC1 and deepwell procedure. Release anchor and tree cutters from tubing 97 cut. 35/11-8-12 AH	
27-mar-19 Deepsea Atlantic	00:15	00:45	30	612	11,02 RIG UP OR DOWN FOR WIRELINE	97 M/U wireline toolstring for cut #2 35/11-8-12 AH Held prejob meeting in Equinor office with involved personel. Discuss rig up for next run with	
27-mar-19 Deepsea Atlantic	00:00	00:15	15	612	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 company man. 35/11-8-12 AH	
26-mar-19 Deepsea Atlantic	23:30	00:00	30	500	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Held prejob meeting in Equinor office with involved personel. Discuss rig up for next run with 100 company man. 35/11-8-12 AH	
26-mar-19 Deepsea Atlantic 26-mar-19 Deepsea Atlantic	21:45	23:30 21:45	105	500	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 Rig up wireline toolstring for cut #2. 35/11-B-12 AH	
26-mar-19 Deepsea Atlantic	21:30	21:45	15	50	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting prior to lay down tool string. 35/11-8-12 AH RIH on WL with cutting BHA. RIH to 1367m MD observed restriction. POOH to 666m MD cut	
26-mar-19 Deepsea Atlantic	15:00	21:30	390	612	11,03 WL OPERATIONS	tubing according to Deepwell. POOH to 100 m. Perform prejob meeting for POOH and 97 change cutting blades. 35/11-8-12 AH	
						Functions test WL tools prior to RIH. Rig up WL tool according to Deep well instruction and RIH to 100m MID	
6-mar-19 Deepsea Atlantic	14:15 14:00	15:00 14:15	45 15	616 616	11,02 RIG UP OR DOWN FOR WIRELINE 25.3 PREJOBMEETING - BRIEF/DEBRIEF	97 PU slips, start compensator and position washpipe at 612 m 35/11-8-12 AH 100 Prejobmeeting prior to rig up WL. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic 6-mar-19 Deepsea Atlantic	13:30	14:15	15 30	616	11,02 RIG UP OR DOWN FOR WIRELINE	97 Functions test WL tools. 35/11.8-12 AH	
6-mar-19 Deepsea Atlantic	12:00	13:30	90	616	6,33 CHANGE HANDLING EQUIPMENT	100 Install padeye sub in top drive, and install 50 ft bails. R/U for Wireline. 35/11-8-12 AH Remove elevator and rig down 9 ft bails. Install padeye sub in top drive, and install 50 ft	
6-mar-19 Deepsea Atlantic	11:30	12:00	30	616	6,33 CHANGE HANDLING EQUIPMENT	100 balls. 35/11-8-12 AH	
	20.45	44.20	400		Canada	Up/Genn veige 3 7/7m, A-chorn has werderson on surface lane, Such, enter top of being 6 25 5%. Code this 156 5% price upon 5 40 mile 100 feb. 100 point mouth owner and verify communication before flagger. Open annular as core till this 504m. Pressure up down ISF and strop with Codes downlar every communication with entire well. Pressure up too 30 fair veloces to pressure por 733866. 30 fair veloces to pressure por 733866.	
6-mar-19 Deepsea Atlantic 6-mar-19 Deepsea Atlantic	09:45 08:45	11:30 09:45	105 60	616 549	6 RIH CH 6,07 RIH CH Reduced speed	100 RIH with 4" wash pipe on 5 7/8" DP. L/D one sgl due to spaceout. Grease pipe 35/11-B-12 AH	
6-mar-19 Deepsea Atlantic 6-mar-19 Deepsea Atlantic	08:30	08:45 08:30	15 30	70 70	6,33 CHANGE HANDLING EQUIPMENT 6.1 MAKE UP RHA	100 Install 5 7/8" inserts in elevator, M/U XO 4" Box/Box and XO 4"-5 7/8". 35/11-8-12 AH 100 Pick up 4" washpipe from catwalk. M/U handtight with chaintones. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic	07:30	08:30	30	60	8,01 MECHANICAL REPAIRS	100 Pick up 4" washpipe from catwalk, M/U handtight with chaintongs. 35/11-8-12 AH 0 Function test shear ram. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic	07:15	07:30	15	60	6,1 MAKE UP BHA	100 Pick up 4" washpipe from catwalk, M/U handtight with chaintongs. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic 6-mar-19 Deepsea Atlantic	07:00 06:30	07:15 07:00	15 30	40 50	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,1 MAKE UP BHA	100 Prejobmeeting prior to RIH with 4" wash pipe. 35/11-8-12 AH 100 Pick up 4stk 4" washpipe from catwalk, M/U handtight with chaintongs. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic	06:20	06:30	10	0	6,1 MAKE UP BHA	100 M/U muleshoe to first 4" washpipe. with chaintong. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic 6-mar-19 Deepsea Atlantic	06:10 06:00	06:20 06:10	10 10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Projob meeting proir to RIH with washpipe. 35/11-8-12 AH 100 Clean and clear driffloor prior to rig up and RIH with washpipe. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic	05:45	06:00	15	0	6,11 LAY DOWN BHA	100 B/O and lay down 1 single 5 7/8*hwdp and BOP test tool. Rack back wash stand in derrick. 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic	05:00	05:45	45	70	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 Pull out of hole with BOP test tool on 5 7/8"dp and 5 7/8"hwdp. from 430m to 70m 35/11-8-12 AH	
6-mar-19 Deepsea Atlantic 5-mar-19 Deepsea Atlantic	00:00 21:45	05:00	300 135	430 429	15,11 PRESSURE TEST BOP 15,11 PRESSURE TEST BOP	100 Pressuretest BOP and topdrive yellow pod. 20/300bar 5/10min. 35/11-8-12 AH 100 Pressuretest BOP and topdrive. 20/300bar 5/10min. 35/11-8-12 AH	
5-mar-19 Deepsea Atlantic	21:30	21:45	15	429	6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP and land BOPITT in WH. 35/11-B-12 AH	
5-mar-19 Deepsea Atlantic	21:15	21:30	15	403	6,75 TRIPPING RISER WITH FULL BORE TOOLS	RIH with Baker Jetsub and BOPITT on 5 stand 5 7/8" HWDP and 5 stand 5 7/8" DP from 66 m 100 to 403 m. 35/11-8-12 AH	
						RIH with Baker Jetsub stand. P/U and M/U BOPITT, Aker rep check and inspect. RIH with	
5-mar-19 Deepsea Atlantic 5-mar-19 Deepsea Atlantic	20:45	21:15	30 15	66	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 same. P/U singel 5 7/8" HWDP from RCWM. 35/11-8-12 AH 100 Prejob meeting prior to RIH with BOP test tool. 35/11-8-12 AH	
						Prejob meeting with new crew prior to install disc in washpipe on TD. Install washpipe disc in	
5-mar-19 Deepsea Atlantic	19:00	20:30	90	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 TD. 35/11-8-12 AH Cont. NOVOS installation software in cyberbase. Meanwhile perform general maintenance	
5-mar-19 Deepsea Atlantic	12:00	19:00	420	0	7,03 OPERATOR PLANNED MAINTENANCE	95 on drillfloor. 35/11-B-12 AH	
5-mar-19 Deepsea Atlantic	07:00	12:00	300	0	7,03 OPERATOR PLANNED MAINTENANCE	Cont. NOVOS installation software in cyberbase. Meanwhile perform general maintenance 95 on drillfloor. 35/11-8-12 AH	
						Cont. NOVOS installation software in cyberbase. Meanwhile perform general maintenance	
5-mar-19 Deepsea Atlantic	00:00	07:00	420	0	7,03 OPERATOR PLANNED MAINTENANCE	95 on drillfloor. 35/11-8-12 AH Cont. NOVOS installation software in cyberbase. Meanwhile perform general maintenance	
4-mar-19 Deepsea Atlantic	19:00	00:00	300	0	7,03 OPERATOR PLANNED MAINTENANCE	95 on driffloor. 35/11-8-12 AH	
4-mar-19 Deepsea Atlantic	12:00	19:00	420	0	7,03 OPERATOR PLANNED MAINTENANCE	Cont. NOVOS installation software in cyberbase. Monitor well with closed BSR against closed 95 choke with 10 bar. Meanwhile perform general maintenance on drillfloor. 35/11-8-12 AH	
4-mar-19 Deepsea Atlantic	07:00	12:00	300	0	7,03 OPERATOR PLANNED MAINTENANCE	Cont. NOVOS installation software in cyberbase. Monitor well with closed BSR against closed 95 choke with 10 bar. Meanwhile perform general maintenance on drillfloor. 35/11-8-12 AH	
4-mar-19 Deepsea Atlantic	00:00	07:00	420	0	7,03 OPERATOR PLANNED MAINTENANCE	Cont. NOVOS installation software in cyberbase. Monitor well with closed BSR against closed 95 choke with 10 bar. Meanwhile perform general maintenance on drifficor. 35/11-8-12 AH	
23-mar-19 Deepsea Atlantic	19:00	00:00	300	0	7,03 OPERATOR PLANNED MAINTENANCE	Cont. NOVOS installation software in cyberbase. Monitor well with closed BSR against closed 95 choke with 10 bar. Meanwhile perform general maintenance on drillfloor. Cont. NOVOS installation software in cyberbase. Monitor well with closed BSR against closed	
	12:00	19:00	420		7,03 OPERATOR PLANNED MAINTENANCE	choke with 10 bar. Meanwhile perform NDT on HR main and aux. Alignment control of aux wellcenter, aux HR. Topdrive main. Installation of protection grid in derrick for top drive 95 service loop. 35/11-8-12 AH	
23-mar-19 Deepsea Atlantic				U		Cont. NOVOS installation software in cyberbase. Monitor well with closed BSR against closed	
3-mar-19 Deepsea Atlantic	07:00	12:00	300	0	7,03 OPERATOR PLANNED MAINTENANCE	95 choke with 10 bar. 35/11-8-12 AH NOVOS installation software in cyberbase. Change encoder on main HR. Monitor well with	
3-mar-19 Deepsea Atlantic	00:00	07:00	420	0	7,03 OPERATOR PLANNED MAINTENANCE	95 closed BSR against closed choke with 10 bar. 35/11-8-12 AH	
2-mar-19 Deepsea Atlantic	19:00	00:00	300	0	7,03 OPERATOR PLANNED MAINTENANCE	NOVOS installation software in cyberbase. Monitor well with closed BSR against closed 95 choke with 10 bar. Meanwhile complete trolly change and calibrate Main HR. 35/11.8-12 AH	
						NOVOS installation software in cyberbase. Monitor well with closed BSR against closed	
2-mar-19 Deepsea Atlantic	12:00	19:00	420	0	7,03 OPERATOR PLANNED MAINTENANCE	95 choke with 10 bar. Meanwhile complete trolly change and calibrate Main HR. 35/11-8-12 AH NOVOS installation software in cyberbase. Remove safety-slings on MHR and dismantle HR-	
					7,03 OPERATOR PLANNED MAINTENANCE	rails prior to remove old trolley. Monitor well with closed BSR against closed choke with 10	
2-mar-19 Deepsea Atlantic	07:00	12:00	300			95 bar. 35/11-8-12 AH Cont. Install NOVOS software in cyberbase. Meanwhile lift off lower trolly on main HR and	
2-mar-19 Deepsea Atlantic	00:00	07:00	420	0	7,03 OPERATOR PLANNED MAINTENANCE	95 install new trolly on same. Monitor well on against closed choke. 35/11-8-12 AH	
1-mar-19 Deepsea Atlantic	19:00	00:00	300	0	7,03 OPERATOR PLANNED MAINTENANCE	Cont. Install NOVOS software in cyberbase. Meanwhile rig up for change trolly on Main HR. 95 Monitor well on against closed choke. 35/11-8-12 AH	
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	17:00 16:45	19:00 17:00	120 15	0	7,03 OPERATOR PLANNED MAINTENANCE 6,11 LAY DOWN BHA	95. Install NOVOS software in cyberbase. Meanwhile rig up for change trolly on Main HR. 35/11-8-12 AH 100. L/D Overshot assy in RCWM 35/11-8-12 AH	
1-mar-19 Deepsea Atlantic	16:30	16:45	15	11	6,01 POOH CH	100 POOH with overshot on 5 7/8" DP. 35/11-8-12 AH	
						Cont. POOH with tool string and L/D in RCNM. Break Deepwell quick connection on WL and L/D toolstring. Rig down WL equipment according to Odfjel/Deepwell instruction. Transfer sgl with side entry sub to Aux and brake down. Remove elevator, L/D 50 ft Balk in RCWM	
1-mar-19 Deepsea Atlantic	12:00	16:30	270	546	11,02 RIG UP OR DOWN FOR WIRELINE	97 and install 9 ft Balls with elevator. 35/11-8-12 AH	
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	11:45 11:30	12:00 11:45	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 11,03 WL OPERATIONS	100 Prejob meeting prior to L/D toolstring and rig down WL equipment. 35/11-8-12 AH 97 Open LAP. Pulled up DP to 546m Deactivated DSC. 35/11-8-12 AH	
1-mar-19 Deepsea Abambo	11:30	11.95		0	11,03 WE OPERATIONS	y Opin of visited by or or a finish calculation and the second of the se	
						and annulus, got 247ltr back.	
I-mar-19 Deepsea Atlantic	08:30 07:15	11:30 08:30	180 75	0	11,03 WL OPERATIONS 11,02 RIG UP OR DOWN FOR WIRELINE	97 Attempt to latch key. NO GO. Pulled out to 100m. 35/11-8-12 AH 97 Ris up WI. surface equipment according to Odfiell/Decowell work instruction. 35/11-8-12 AH	
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	07:00	07:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Preiob prior to rist up and RIH with wireline. 35/11-8-12 AH	
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	05:10 04:50	07:00 05:10	110 20	0	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 P/U and install wireline tool string according to Deep Well. 35/11-8-12 AH 100 Prejob prior to rig up and RiH with wireline. 35/11-8-12 AH	
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	04:50	05:10 04:50	20 290	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 11,02 RIG UP OR DOWN FOR WIRELINE	97 Prepare next wireline tool and change head on wireline due to damage on wire. 35/11-8-12 AH	
I.mar.19 Deenses Atlantic	22:50	00:00	70	546	11 02 BIG UP OR DOWN FOR WIRELING	Inspected toolstring and found small scratches on tool. Desided to run pulling tool for lower 97. DHSV. Prepare toolstring on riser deck. 35/11.8.12 AH.	
I-mar-19 Deepsea Atlantic	20:15	22:50	155	546	11,02 RIG UP OR DOWN FOR WIRELINE 11,02 RIG UP OR DOWN FOR WIRELINE	97 Broke off lubricator and L/D toolstring. 35/11-B-12 AH	
l-mar-19 Deepsea Atlantic	20:00	20:15	15	546	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting prior L/D tool string. 35/11-8-12 AH Stopped toolstring ⊕ 100m. Bleeded off pressure on drillstring and annulus, opened LAP.	
3-mar-19 Deepsea Atlantic	19:40	20:00	20	552	11,03 WL OPERATIONS	Stopped tootstring by 100m, breeded off pressure on dritstring and annulus, opened LAP. 97 Pulled up string to 546m Deactivated DSC. 35/11-8-12 AH	
						Pressured up well from cmt unit 1/20bar. Observed same pressure on annulus side. Bled down pressure to cmt unit. Repressured up stringly-will 1/20bar and positioned well key above 0H5V latching profile. BiH and positionedwell key profile above latching profile of upper DH5V. Activated well key. After served attempts. NO. O.	
0-mar-19 Deepsea Atlantic	12:00	19:40	460	552	11,03 WL OPERATIONS	97 Decided to Pull out with toolstring and check tools. 35/11-8-12 AH	
						Pressured up well from cmt unit 1/20bar. Observed same pressure on annulus side. Bied down pressure to cmt unit. Repressured up string/well 1/20bar and positioned well key above CHSV latching profile. Ritl and positionedwell key profile above latching profile of upper thirty. Activated well key.	
10-mar-19 Deepsea Atlantic 10-mar-19 Deepsea Atlantic	07:00 04:30	12:00	300 150	552 552	11,03 WL OPERATIONS 11,03 WL OPERATIONS	97 NO GO. 35/11-8-12 AH 97 RIH with WL tool string and confirm flapper position in upper DHSV. 35/11-8-12 AH	
		04:00			***	RIH with overshot on 5 7/8" DP to land on top cut @552.4m. Keep Ston downweight. Close	
	04:15	04:30 04:15	15 15	552 545	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 annular. 35/11-8-12 AH 100 Prejobmmeting prior to RiH with overshot. 35/11-8-12 AH	
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic							
O-mar-19 Deepsea Atlantic O-mar-19 Deepsea Atlantic	04:00					Cont. to rig up for VII. according to DespWell. Install Abshirblott, hang off line and upper sheave. Mount extension hoses for Elevator, install elevator. Make up sgf to string.	
20-mar-19 Deepsea Atlantic 20-mar-19 Deepsea Atlantic	00:00	04:00	240	545	11,02 RIG UP OR DOWN FOR WIRELINE	Install chainhoist, hang off line and upper sheave. Mount extension hoses for Elevator, Install elevator.	

						Rig up for WL according to DeepWell. Install Chairhoist, hang off line and upper sheave. Mount extension hoses for Elevator, Install elevator. Make up sgl to string.	
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	22:30 22:15	00:00 22:30	90 15	545 545	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 Build toolstring according to wellher. 100 Prejobmeeting prior to rig up for WL surface handling equipment. P/U 2 csts 5 7/8" DP PJ and M/U. Rig down 9 ft Bails from top drive. R/U 50 ft Bails, install.	35/11-8-12 AH 35/11-8-12 AH
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	19:15 19:00	22:15 19:15	180 15	545 541	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 swivel sub in TD. 100 Prejobmeeting prior to rig up for WL.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	18:10	19:00	50	541	11,02 RIG UP OR DOWN FOR WIRELINE	 Rigged up for WL. Connected TD to string and recorded Upweight 80ton/Down weight 79ton. Broke circulation and circulated with 500tpm-66 BAR and 5rpm. Verified top tubing with 5ton WOE @ 541m 	35/11-B-12 AH
mar-19 Deepsea Atlantic	17:45	18:10	25	551	6,22 WASH DOWN	100 MD	35/11-B-12 AH
mar-19 Deepsea Atlantic	17:15	17:45	30	541	6 RIH CH	100 RIH with OS on 5 7/8" DP T/540m MD. Compensated through BOP with OS. 100 P/U overshot assy and M/U to 5 7/8" DP.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	17:05 16:50	17:15 17:05	10 15	0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob prior to RIH with overshot.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	16:35	16:50	15	0	38,01 CLEAN AND CLEAR RIGFLOOR 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Clean and clear driffioor prior to rig up for wireline 100 Debrief after POOH with clean out assy's.	35/11-8-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	16:20 16:10	16:35 16:20	15 10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,11 LAY DOWN BHA	100 Debrief after POOH with clean out assy's. 100 L/D BHA to RCWM	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	16:00	16:10	10	30	6,83 POOH with BHA	100 POOH with clean out BHA 5 7/8" HWDP f/104m t/30m	35/11-B-12 AH
nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic	15:25 15:15	16:00 15:25	35 10	104 548	6,01 POOH CH 6,41 FLOW CHECK	100 POOH with clean out BHA 5 7/8" DP 1/548m t/104m. 100 F/C well static.	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Atlantic	14:30	15:15	45	574	35,01 MILLING	M/U TD.Up wt 84 t, Dw 84t.5 rpm,1-2 kNm. Tag limit 6 kNm. 500 l/m-29 bar. Enter top fish @55tm and tag same with topdress mill Polish acc. to Baker with 800 l/m,30 rpm,1-1,5 100 kNm.	35/11.R.17 AH
mar-19 Deepsea Atlantic	13:55	14:30	35	548	6 RIH CH	100 RIH with clean out BHA on 5 7/8" DP T/548m MD.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	13:45 13:30	13:55	10	104 30	6,82 RIH with BHA 6,33 CHANGE HANDLING EQUIPMENT	100 RIH with 5 7/8" HWDP	35/11-8-12 AH 35/11-8-12 AH
nar-19 Deepsea Atlantic nar-19 Deepsea Atlantic	13:30	13:45 13:30	15 30	30	6.3 CHANGE HANDLING EQUIPMENT 6.1 MAKE UP BHA	100 Changed handling equipment to 5 7/8". 100 P/II and M/II & 3/4" Taner mill and 7 1/8" dress off mill assy	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Atlantic	12:30	13:00	30	0	12,12 RIG DOWN CASING/LINER EQUIPMENT	100 R/U casing tong for 2 7/8" tubing.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	12:15 12:00	12:30 12:15	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Prejob meeting prior install casing tong and BHA for dress off 5 1/2" tubing. 100 Clean and clear RF. Remove subs after BHA.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	11:45	12:00	15	0	38 01 CLEAN AND CLEAR RIGELOOR	100 Clean and clear RF	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	11:05 10:50	11:45 11:05	40 15	145	6,11 LAY DOWN BHA 6,01 POOH CH	100 R/B 5 7/8" HWDP, L/D Accelerator, R/B 6 1/2" DC stands and L/D Jar/OS to RCWM. 100 POOH with Jar BHA on 5 7/8" DP T/145m. P/U dbl from RCWM.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	10:45	10:50	5	354	6,74 COMPENSATE THROUGH BOP	100 Compensated through BOP with BHA.	35/11-B-12 AH
mar-19 Deepsea Atlantic	10:40	10:45	5	392	6,31 L/D DRILLSTRING	100 L/D dbl to RCWM.	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	10:30 09:30	10:40 10:30	10 60	411 524	6,01 POOH CH 25,22 DROP's Inspection	100 PDOH with overshot on 5 7/8" DP from 524m to 411m. 100 Performed drops inspection on TD after Jaring.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	09:15	09:30	15	549	19,01 FISHING, OTHERS	100 Released over shot from 5 1/2" tubing and R/B stand.	35/11-8-12 AH
nar-19 Deepsea Atlantic	09:00	09:15	15	551	19,01 FISHING, OTHERS	100 Released over shot from 5 1/2" tubing and R/B stand. 100 Keep stoady 174con DP on fish. Jared 11 x Up and 17 x downwards according to BH instructions. Max 25ton down/65ton	35/11-8-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	07:15 07:00	09:00 07:15	105 15	551 551	19,01 FISHING, OTHERS 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 up. Confirmed tubing not free with 174on OP. 100 Projob meeting with crew before laring. Engage DDM. Took weights 86T up/Down. Washed down with 500lpm/38ar - 5 Rpm/3kNm.	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	06:30 06:00	07:00 06:30	30 30	551 530	19,01 FISHING, OTHERS 6 RIH CH	Engage DUM. Took weights 861 up/town. Washed down with SUUpmy 884r - 5 Kpm/sixhm. 100 Engaged overshot and took 10ton OP. 100 RH With 8 1/8 Overshot from 145m to 530m on 5 7/8" DP.	35/11-B-12 AH 35/11-B-12 AH
mar-19 Deepsea Atlantic	05:10	06:00	50	145	6,1 MAKE UP BHA	Make up Overshot, JAR, 2 NC std. and 2X ACC and 5 7/8" HWDP. From surface to 145m. 100 Weight under JAR 1T, BHA weight 11T.	35/11-B-12 AH
mar-19 Deepsea Atlantic	04:55	05:10	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to P/U BHA	35/11-B-12 AH
mar-19 Deepsea Atlantic	04:45	04:55	10	0	6,33 CHANGE HANDLING EQUIPMENT	100 Remove slips. Install 5" inserts in elevator	35/11-B-12 AH
mar-19 Deepsea Atlantic	04:10	04:45	35	0	6,11 LAY DOWN BHA	100 L/D GTV plug in RCWM acording to Baker. Remove 2 stk XO, rack bak 8" DC in derrick.	35/11-B-12 AH
mar-19 Deepsea Atlantic	04:00	04:10	10	6	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 Cont POOH with GTV plug on 5.7/8" DP	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	03:50 03:00	04:00 03:50	10 50	81 96	6,11 LAY DOWN BHA 6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 L/D MUT in RCWM according to Aker. 100 POOH with MUT and GTV plug from 500m to 96m on 5 7/8" HWDP.	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	02:45	03:00	15	468	12,13 SEAL ASSY / WEAR BUSHING	Run in from 423m to 468m (383m MUT). and Landed WB @383m. Sat down 10T. Sheared 100 WB with 10T.	35/11-B-12 AH
-mar-19 Deepsea Atlantic	00:00	02:45	165	423	12,88 SET/RELASE MECH PLUGS	Set down I box, cert lower strip to lated on RIV. Verlyed by setting down 20 box. Pump down raing with cert wit. They from 5-15ther-16ther good communication through the pile. They are such as of all they are such as the set of	35/11-8-12 AH
-mar-19 Deepsea Atlantic	23:30	00:00	30	423	12,88 SET/RELASE MECH PLUGS	Down Weight-BBOn. Torque SPM-0,554m Pressure 3500 par 27bar Rist Goving and tag play with 21on @ 422,8m MID. Pick up to 410m and start created with 5500pm/27bar, Rotate with 51pm/Nhm. Washed 100 down and decreased for down in steps to 2000pm/27bar, Rotate with 51pm/Nhm. Washed 100 down and decreased for down in steps to 2000pm/2 mitterer above GTV play.	35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00	23:30	30	402	6,1 MAKE UP BHA	Torque S RMA, SIANe Pressur S 200 pm:72 pm; Bits Gooky And Egg in get 201 Zon @ 422,8m MD Bits Gooky And Egg in get 201 Zon @ 422,8m MD Priss so in cliffor and start or crustated with SSOS(pm)/278ar, Rutzte with SprijNNm, Wouled Priss so in cliffor and start or crustated years possible pm; Priss so in cliffor and start or crustated with SSOS(pm)/278ar, Rutzte with SprijNNm, Wouled Triss Start	35/11-B-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	23:00	23:30		402	6,1 MAKE UP BHA 6,1 MAKE UP BHA	Torque S 894.0,518m. Pressure SSD (50) pen 72har Bill Islands and tag filey will a coll # 422,8m MO Pick up to 450 and 64 and 64 and 10 collabel with 3500pm/72har, Rotate with 5pm/MNn. Washed 100 down and decreased for bown in cases to 200pm 7 insteat above GTV plug. 100 MHHM 577 WHERD (F) SERT LEAST (50) AND	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30	23:30 23:00 22:45 22:35	30 15 10 5	402 63 42 10	6,1 MAKE UP BHA 6,1 MAKE UP BHA 6 RIH CH 15,07 FUNCTION TEST DIVERTER	Torque S MM 4,5 MM Pressure 2014 (2015) and 22 MM Pressure 2015 (2015) and 2015 (20	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15	23:30 23:00 22:45 22:35 22:30	30 15 10 5	402 63 42	6,1 MAKE UP BHA 6,1 MAKE UP BHA 6 RIH CH 15,07 FUNCTION TEST DIVERTER 6,1 MAKE UP BHA	Torque S RMA (S,MM) Pressure SOD (Spin 27) RM (Spin 27) RG (spin 27)	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45	23:30 23:00 22:45 22:35 22:30 22:15 22:00	30 15 10 5 15 15 15	402 63 42 10	6.1 MAKE UP BHA 6.1 MAKE UP BHA 6. RIN HOT HIS DOVERTER 6.1 MAKE UP BHA 3.3 PREDOBMETRIG - BREF/DEBRIEF 8.0.1 CLARA WAD CLEAR BRIEFOOR	Torque S RMA (S),NMM Pressure SOS (D) mon 27mm Ann American (S) mon 27	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15	23:30 23:00 22:45 22:35 22:30 22:15 22:00 21:45	30 15 10 5 15 15 15	402 63 42 10 0 0 0	6.1 MAKE UP BHA 6.1 MAKE UP BHA 6.8 RHCH 15.07 FUNCTION TST DOVERTER 25.2 PELODMET ING BRIEF/GERIEF 38.01. CLEAN AND CLEAR RIGHCOR 1 RIS UP AND TEAR DOWN.	Torque s 9740, 53,5400. Pressure 2500 (pp. 2774. Pressure 2500 (pp.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45	23:30 23:00 22:45 22:35 22:30 22:15 22:00	30 15 10 5 15 15 15	402 63 42 10 0	6.1 MAKE UP BHA 6.1 MAKE UP BHA 6. RIN HOT HIS DOVERTER 6.1 MAKE UP BHA 3.3 PREDOBMETRIG - BREF/DEBRIEF 8.0.1 CLARA WAD CLEAR BRIEFOOR	Torque S RMA (SANN) Pressure 200 (San 2012) Pressure 2	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
-mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15 21:00	23:30 23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15	15 10 5 15 15 15 15 15	402 63 42 10 0 0 0 0	6,1 MAKE UP BHA 6,1 MAKE UP BHA 6,8 RHCH 15,07 FUNCTION TST DIVERTER 6,1 MAKE UP BHA 23,3 PECIODMETING - BOREF/VERBEF 83,0 LECAN ADCLEAR BRIGHOOD R 1 BIG UP AND TEAR DOWNN. 23,3 PECIODMETING - BOREF/VERBEF	Torque S RMA (SANN) Pressure 200 (San 2012) Pressure 2	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15 21:00 20:30	23:30 23:00 22:45 22:35 22:30 22:45 22:00 21:45 21:00 20:30	30 15 10 5 15 15 15 15 30 15 30	402 63 42 10 0 0 0 0	6. IMAKE UP BINA 6. BIN CH 8. BIN CH 8. BIN CH 15.07 PANN-THOM TSS DOVISTER 7.4. I PALEDMARTHING BEST/CREEKE 7.4. I PALEDMARTHING SERVICEMENT 18.01 CEARS MODICAR MEDICADO 1 BIN CUP MAD TEAR ORDOR 1 BIN CUP MAD TEAR ORDOR 1. BIN CUP MAD TEAR ORDOR 1. ALTO BOOWN ECO PENNAME ECCHPMENT 1.4.17 BIN COWN ECO PENNAME ECCHPMENT 1.4.28 BINN, MERGER OVERTITE	Torque S RMA (SANN) Pressure 2000 (par 27) RM (SAN) Pressure 2000 (par 27) RM (SAN) RM (SAN	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15 21:00 20:30 18:10 17:45	23:30 23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15 21:00 20:30 18:10	15 10 5 15 15 15 15 15 15 20 15 30	402 63 42 10 0 0 0 0 0 0	G. MARE UP BIAL G. MARE UP BIAL G. MARE UP BIAL G. MARE UP BIAL S. PIALOTION TST DOVERTER G. MARE UP BIAL S.2. PRECIDENTIAL - SHEF/DEBREF MAGI CLEAN MOCILLAN MISCHOON MAGI CLEAN MOCILLAN MISCHOON S.2. PRECIDENTIAL - SHEF/DEBREF 14.17 RIS COWNEO PLUNNING EQUIPMENT 14.21 RIS COWNEO PLUNNING EQUIPMENT 14.21 RIS COWNEO PLUNNING EQUIPMENT	Torque S MM 0,5 MM Pressure Torque S MM 0,5	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15 21:00 20:30	23:30 23:00 22:45 22:35 22:30 22:45 22:00 21:45 21:00 20:30	30 15 10 5 15 15 15 15 30 15 30	402 63 42 10 0 0 0 0	6. IMAGE OF BIAN 6. BIR CH 1. BIR CH	Torque s RMA 0,548m. Pressure 500 (par 27am. 100 (par 27am.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
mar-19 Deepsea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15 21:00 20:30 18:10 17:45 17:30 17:15 16:30	23:30 23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:15 21:10 20:30 18:10 17:45 17:30 17:15	30 15 10 5 15 15 15 30 15 30 140 25 15 15 45	402 63 42 10 0 0 0 0 0 0	6. MARC OF BIAN 6. MARC OF BIAN 7. MARC OF BIAN 8. BIAN CO. 8. BIA	Troque S RMA (SANM) Pressure SOS (Dan 272ar 1 and 272 and 102	35/11-8-12 AH 35/11-8-12 AH
mar-19 Deppsea Atlantic	23:00 22:45 22:35 22:35 22:00 22:15 22:00 21:45 21:00 20:30 18:10 17:45 17:30 17:15 16:30 14:00	23:30 23:00 22:45 22:35 22:30 22:15 22:00 21:45 21:00 20:30 18:10 17:45 17:45 17:45 16:30	15 10 5 15 15 15 15 15 30 15 30 25 15 30 25 15 30 40 40 40 40 40 40 40 40 40 40 40 40 40	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6. MARE OF BIAN 6. LONG UP BIAN 9 BIC DT 15.0P FINITION TST DOVERTER 6. MARE OF BIAN 75.7 PRICING MIST DOVERTER 75.7 PRICING MIST DE SERVICE DE SERVICE 75.7 PRICING MIST DE SERVICE 75	Torques 9 Min 0,5 Min 1 Pressure 200 (pp. 127) Prick up to 4 Cline and care of 4 Clin Min 1 Prick up to 4 Clin and care of care of 4 Clin Min 1 Prick up to 4 Clin and care of care of 4 Clin Min 1 Did on and deformate flow down in 1 pp. 10 Clin (1) Clin Min 1 Did (1) Min 1 Prick (1) Clin Min 1 Did (1) Min 1 Prick (1) Clin Min 1 Did (1) Min 1 Prick (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Will (1) Clin Will (1) Clin Will (1) Dri Will (1) Clin Will (1) Dri Will (1) Clin Will (1) Dri W	35/11-8-12 AH
mar-19 Depposa Atlantic	23:00 22:45 22:35 22:35 22:15 22:00 21:45 21:15 21:00 20:30 18:10 17:45 17:30 17:15 14:00 12:45	23:30 23:50 22:45 22:35 22:35 22:30 22:15 22:00 21:45 21:15 21:00 20:30 18:10 17:45 17:30 17:15 16:30	15 10 5 15 15 15 15 30 15 30 15 30 15 15 30 15 30 5 15 30 45 45 45 15 5 75	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0	6. MAKE OF BIAN 6. MAKE OF BIAN 18. BIN COT 18. BIN COT 18. PENCIN TO VICTOR 18. MAKE OF BIAN 18. MAKE OF BI	Troque S RM 0,5 Nem Pressure SOS (Dan 27244 Birt Solvey and Egy laif with G S 224 Birt SID Birt Solvey and Egy laif with G 244 Birt SID Birt Solvey and Egy laif with G 244 Birt SID Birt Solvey and Egy laif with G 244 Birt SID Birt Solvey And S 244 Birt SID (S 244 Birt SID	35/11-8-12 AH
mar-19 Deoppea Atlantic	22:45 22:35 22:30 22:15 22:30 22:15 22:00 21:45 21:15 21:00 20:30 18:10 17:35 17:35 17:35 14:00 17:15 16:30 14:00 12:45 12:35	23:30 23:45 23:50 22:45 22:35 22:35 22:30 22:15 22:00 21:45 21:15 21:00 20:30 18:10 17:45 17:30 17:15 16:30 14:00 12:45	15 10 15 15 15 15 15 30 15 30 25 15 15 15 15 30 75 15 15 15 15 15 15 15 15 15 15 15 15 15	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6. MARE OF BIAN 6. MARE OF BIAN 5. BIR CO. 5	Torques 9 Min 0,5 Min 1 Pressure 200 (pp. 127) Prick up to 4 Cline and care of 4 Clin Min 1 Prick up to 4 Clin and care of care of 4 Clin Min 1 Prick up to 4 Clin and care of care of 4 Clin Min 1 Did on and deformate flow down in 1 pp. 10 Clin (1) Clin Min 1 Did (1) Min 1 Prick (1) Clin Min 1 Did (1) Min 1 Prick (1) Clin Min 1 Did (1) Min 1 Prick (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Will (1) Clin Min 1 Did (1) Min 1 Dri Will (1) Clin Will (1) Clin Will (1) Clin Will (1) Dri Will (1) Clin Will (1) Dri Will (1) Clin Will (1) Dri W	35/11-8-12 AH
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mar 19 Deopea Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 22:45 21:15 21:00 20:30 18:10 17:45 17:30 14:00 14:00 12:45 12:35 12:00 10:45	23:30 23:90 23:90 23:90 22:45 22:35 22:39 22:39 22:15 22:90 22:15 22:90 22:15 21:95 21:90 20:30 18:10 20:30 18:10 17:35 16:30 14:00	150 151 151 151 151 151 151 151 151 151	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6. MARCE OF BIAN 6. MARCE OF BIAN 7. MARCE OF BIAN 8. BIR COT 1.5.07 FAINT-CON TEST OVERTER 1.5.1 MARCE OF BIAN 1.5.1 MARCE OF	Troques 5 WM 0,5 M/m Pressure 500 (pos 27 M/m	35/11-9-12 AH 35/11-9-11 AH 35/11-9-12 AH 35/11-9-11 AH 35
mar-19 Deopse Atlantic mar-19 Stage Atlantic	23:00 22:45 22:35 22:30 22:15 22:15 22:15 21:00 20:30 18:10 17:45 17:30 17:15 16:30 14:00 12:45 12:35 12:00	23:30 23:50 23:50 23:50 22:55 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:50 22:55	15 10 15 15 15 15 15 30 15 30 25 15 15 15 15 30 75 15 15 15 15 15 15 15 15 15 15 15 15 15	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6. IMAKE OF BIAN 6. MINEY OF BIAN 6. BIR CH 6.	Troque S RMA 0,5 Nem Pressure SCO (pm 27 Nem Pressure SCO (pm 27 Nem Pressure SCO (pm 27 Nem RM 2 Nem Pressure SCO (pm 27 Nem	35/11-8-12 AH
mar-19 Deopse Atlantic mar-19 Stage Atlantic	23:00 22:45 22:35 22:30 22:15 22:00 22:45 21:15 21:00 20:30 18:10 17:45 17:30 14:00 14:00 12:45 12:35 12:00 10:45	23:30 23:90 23:90 23:90 22:45 22:35 22:39 22:39 22:15 22:90 22:15 22:90 22:15 21:95 21:90 20:30 18:10 20:30 18:10 17:35 16:30 14:00	150 151 151 151 151 151 151 151 151 151	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1 MARC OF BIAN 5. MARC OF BIAN 6. BIR CH 8. BIR CH 8. BIR CH 15.07 FANCTION TEST DOVESTER 73.7 PRECOMMETTION SERVICESTER 73.1 PRECOMMETTION SERVICESTER 73.1 PRECOMMETTION SERVICESTER 73.1 BIAC CHARACTER CONCERNMENT 74.1 PRECOMMETTION SERVICESTER 74.1 PRECOMMET ENVIRONMENT 74.1 PRINCIPLE OVERTER 75.1 PRINCIPLE OVERTER	Troques 5 WM 0,5 M/m Pressure 500 (pos 27 M/m	35/11-9-12 AH 35/11-9-11 AH 35/11-9-12 AH 35/11-9-11 AH 35
mar-19 Deoppea Atlantic	23:00 22:45 22:35 22:30 22:30 22:15 22:00 22:15 22:00 20:30 17:45 17:30 17:15 16:30 14:00 12:45 12:35 12:00 10:45 10:00 08:30 08:30	22:30 21:00 21:00 22:45 22:45 22:45 22:45 22:45 22:00 22:45 22:00 22:45 22:00 22:45 22:00 22:45	100 151 160 175 185 185 185 185 185 185 185 185 185 18	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1 MARC OF BIAN 6. MIN CO PRINCE 1. MIN CONTROL TO STATE OF STATE	Troques 5 WHA 0,54km Pressure 500 (bit 1972) Troques 1 WHA 0,54km Pressure 500 (bit 1972) Filed up to 4 time and care of care of 42 time 100 (bit 1972) Filed up to 4 time and care of care of 42 time 100 (bit 1972) Filed up to 4 time and care of care of 42 time 100 (bit 1972) 1	\$5(1452) AM \$1(1452) AM \$1(145
mar-19 Deppsa Atlantic mar-19 Suppa Atlantic	23:00 22:45 22:35 22:30 22:30 22:10 22:10 22:10 21:15 21:10 20:30 20:31 18:10 17:45 17:30 17:15 16:30 14:00 12:45 12:35 12:05 10:45 10:45 10:00 08:30	23:30 23:30 23:30 23:50 22:45 22:35 22:35 22:30 22:15 21:45 21:10 20:30 18:10 17:30 17:30 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 17:30 17:45 10:00	150 150 150 150 151 151 151 150 150 150	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1 MARC OF BIAN 5. MARC OF BIAN 6. MA	Troques S MA 0,5 Main. Pressures 200 (page 27) at 22 miles 12 mil	35/18-912 AH 35/18-911 AH
mar-19 Deopsa Affantic mar-19 Suppa Affantic	23:00 22:45 22:35 22:30 22:30 22:15 22:00 22:15 22:00 20:30 17:45 17:30 17:15 16:30 14:00 12:45 12:35 12:00 10:45 10:00 08:30 08:30	22:30 21:00 21:00 22:45 22:45 22:45 22:45 22:45 22:00 22:45 22:00 22:45 22:00 22:45 22:00 22:45	100 151 160 175 185 185 185 185 185 185 185 185 185 18	402 63 42 10 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1 MARC OF BIAN 6. MIN CO PRINCE 1. MIN CONTROL TO STATE OF STATE	Troque S RMA QSANIM Pressure SOR DISPARE Pressure SOR DISPARE Pressure SOR DISPARE Pressure SOR DISPARE RICH	\$5(1452) AM \$1(1452) AM \$1(145
mar 19 Deepea Atlantic	22:45 22:35	22:30 23:50	100 101 102 103 103 105 105 105 105 105 105 105 105 105 105	63 63 63 63 63 63 63 63 63 63 63 63 63 6	6,1 MAKE OF BIAN 6, MAKE OF BIAN 6, BIR CO 1,	Troque S RMA (SARM) Pressure SOR (SARM) Pressu	\$5(1452.04) \$5(145
mar-19 Deopse Affantic mar-19 Coppea Affantic	22.00 22.45 22.35 22.30 22.35 22.30 22.15 22.10 23.00 20.30 20.30 20.30 20.30 20.30 20.30 20.30 20.30 20.30 20.30 20.30 20.30	22:30 22:30 22:40 22:45 22:45 22:45 22:30 23:30	100 153 159 15 15 15 15 15 15 15 15 15 15 15 15 15	63 402 100 00 00 00 00 00 00 00 00 00 00 00 00	6,1 MARC OF BIAN 6, MARC OF BIAN 6, MARC OF BIAN 6, MARC OF BIAN 6, MARC OF BIAN 1, SOP PRINTING SECTION STATE 1, SOP PRINTING SECTION STATE 1, SOP PRINTING SECTION STATE 1, SOCIAL SECTION STATE 1,	Troques S RMA (SARM) Pressure SOR (Day 1972) Troques S RMA (SARM) Pressure SOR (Day 1972) RMA up to 4 45m and st and creative with 550 (Program), activate with 5 program, was also as the 5 program of the 100 one and decreased from 4 down 1970 to 200 (Program), activate with 5 program, was also some control of the 100 one and decreased from 4 down 1970 to 200 (Program), activate of the 100 program), and the 100 program of the	\$5(14.52.AM) \$5
mar 19 Deepse Atlantic	22,00 22,45	22:30 22:45 22:45 22:35	100 151 152 153 153 155 155 155 155 155 155 155 155	602 412 102 103 104 104 105 105 105 105 105 105 105 105	6, MAKE OF BIAN 5, MAKE OF BIAN 1, MAK	Troques S RMA (SARM) Pressure SOR (SARM) Pressure SORM) Pressure SORM (SARM) Pressure SORM) Pressu	30(1452)AM 30(145
mar-19 Deepse Affantic mar-19 Suppa Affantic mar-19 Coppa Affantic	22.45 22.45	22:30 22:40 22:45 22:45 22:45 22:45 22:35 22:30 23:45 22:35 23:30 23:45 22:30 23:45 23:30 23:45 23:30 23:45 23:30 23:45 23:30 23:45 23:50 23:45 23:50 23:45 23:50	150 151 151 151 151 151 151 151 151 151	63 63 63 63 63 63 60 60 60 60 60 60 60 60 60 60 60 60 60	6,1 MARC OF BIAN 6, MARC OF BIAN 6, MARC OF BIAN 6, MARC OF BIAN 6, MARC OF BIAN 1, SOP PRINTING SECTION STATE 1, SOP PRINTING SECTION STATE 1, SOP PRINTING SECTION STATE 1, SOCIAL SECTION STATE 1,	Troque S RMA (SARM) Pressure SOR (Day 1972) Troque S RMA (SARM) Pressure SOR (Day 1972) RMA (sp to 4 45m and st and creative with 500 pm/1974, recent with 5pm/19m, Worker 100 en and decreased flow down in 1987 to 200 pm. Treater above 6 Thy play. 100 Res with 57 PM (1992) PM (SARM) 100 PM (SARM) 100 PM (SARM) 100 PM (SARM) 101 PM (SARM) 101 PM (SARM) 101 PM (SARM) 102 PM (SARM) 103 PM (SARM) 104 PM (SARM) 105 PM (SARM) 106 PM (SARM) 107 PM (SARM) 107 PM (SARM) 108 PM (SARM) 109 PM (SARM) 100	\$5(14.52.AM) \$5
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mar 19 Deepse Atlantic	2200 2246 2246 2246 2246 2246 2246 2246	22:30 22:30 22:45 22:45 22:35 22:30 22:35 22:30 23:30	150 151 151 151 151 151 151 151 151 151	602 4 12 10 10 10 10 10 10 10 10 10 10 10 10 10	6,1 MAKE OF BIAM 6, MAKE OF BIAM 7, MA	Troque S RMA (SARM) Pressure SOR (Day 1972) Troque S RMA (SARM) Pressure SOR (Day 1972) RMA (sp th 450m and that or coulaired with 1500m/1972, recent with 5 prop/Men. Worked 100 does and decreased flow does in 1985 to 200m 1972, recent with 5 prop/Men. Worked 100 does and decreased flow does in 1985 to 200m 1972, recent of 1974 pile. 100 Revers 1977 (Freeze P) (Freeze SARM) 100 P (Freeze March 1974 for 1974) 101 P (Freeze March 1974 for 1974) 102 P (Freeze March 1974 for 1974) 103 P (Freeze March 1974 for 1974) 104 P (Freeze March 1974 for 1974) 105 P (Freeze March 1974 for 1974) 105 P (Freeze March 1974 for 1974) 106 P (Freeze March 1974 for 1974) 107 P (Freeze March 1974 for	\$2(14.52.AM) \$2(14
mar 19 Deepse Atlantic	2200 (0630)	22:30 22:45 22:45 22:45 22:45 22:35 22:30 22:35 22:30 22:35 22:30 22:35 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45	100 101 102 103 103 103 103 103 103 103 103 104 105 105 105 105 105 105 105 105 105 105	602 603 603 603 603 603 603 603 603 603 603	6, MAKE OF BIAM 1, MAK	Troques 5 MPA 0,5 MPA 1 Pressure 5 MPA 1,5 MPA 1 Pressure 5 MPA 1,5	\$2(14.52.00 M) \$2(14.
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mar 19 Deepse Atlantic	2200 2245 2255 2255 2255 2255 2255 2255	22:30 22:45 22:45 22:45 22:45 22:35 22:30 22:35 22:30 22:35 22:30 22:35 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45	100 101 102 103 103 103 103 103 103 103 103 103 103	602 603 603 603 603 603 603 603 603 603 603	6, MAKE OF BIAM 5, MAKE OF BIAM 1, MAK	Troques 5 MPA 0,5 MPA 1 Pressure 5 MPA 1,5 MPA 1 Pressure 5 MPA 1,5	\$2(14.52.00 M) \$2(14.
mar 19 Deepse Atlantic	22000 2215 2215 2215 2215 2216 2216 2216 2216	22:30 22:45	150 151 151 152 153 153 155 155 155 155 155 155 155 155	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1 MARCE OF BIAN 5.1 MARCE OF BIAN 5. BIRG CH 6. BIRG 6. BIRG CH 6. BIRG 6. BIRG CH 6.	Troques S MA D, SANNE Pressure SOR D, SANNE SOR D,	\$2(14.52.AM) \$2(14
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mar 19 Deepse Atlantic	2200 2235 2236 2236 2236 2236 2236 2236 2236	22:30 22:40 22:45	150 151 151 151 152 153 155 155 155 155 155 155 155 155 155	61 10 10 10 10 10 10 10 10 10 10 10 10 10	6,1 MARC OF BIAN 6, MARC OF BIAN 6, MIN CO 1, MARC OF BIAN 6, MIN CO 1, MIN CONTROL STATE OVERTER 1, MARC OF STATE OVERTER 1, MARC OF STATE OVERTER 1, MARC CASA MARC OVERTER 1, MARC	Troques S MA D, SANNE Pressure SOR D, SANNE SO	\$\(\) 18(14-24) AM \$\) \$\) 18
mar 19 Despes Atlantic	2200 2245 2245 2256 2256 2256 2256 2256 2256	22:30 22:45 22:45 22:45 22:45 22:35 22:30 22:45 22:30 22:30 22:45 22:30 22:30 22:45 22:40	100 101 102 103 103 103 103 103 103 103 103 103 104 105 105 105 105 105 105 105 105 105 105	622 424 425 425 425 425 425 425 425 425 4	6, MAKE OF BIAM 1, MAK	Troques S MA D, SANNE Pressure SOR D, SANNE SO	30(1402 AM) 30(14
mar 19 Deepse Atlantic	2200 2245 2255 2255 2255 2255 2255 2255	22:30 22:30 22:45 22:45 22:35 22:30 22:45 22:30 23:30	150 151 151 152 153 155 155 155 155 155 155 155 155 155	602 44 45 46 46 46 46 46 46 46 46 46 46 46 46 46	6, MAKE OF BIAN 1, MAK	Troques S RMA, SSANN Pressure SOR (SSANN) Pressure SOR (SSANNN) Pressure SOR (SSANNNN) Pressure SOR (SSANNNNN) Pressure SOR (SSANNNNN) Pressure SOR (SSANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	\$2(14.24 AM) \$2
mar 39 Deepsea Atlantic	2200	22:30 22:45 22:45 22:45 22:45 22:35 22:30 22:45 22:30 22:45 22:30 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45 22:30 22:45	100 101 102 103 103 103 103 103 103 103 103 103 103	622 442 452 452 452 452 452 452 452 452 4	6.1 MAKE OF BINA 6. MAKE OF BINA 6. MINCE 6. MI	Troques S MA S, SANN Present Present S MA S, SANN P	\$2(14.24 AM) \$2
mar 19 Despes Atlantic	2200 2245 2255 2255 2255 2255 2255 2255	22:30 22:30 22:45 22:45 22:35 22:30 22:45 22:30 23:30	150 151 151 152 153 155 155 155 155 155 155 155 155 155	602 44 45 46 46 46 46 46 46 46 46 46 46 46 46 46	6, MAKE OF BIAN 1, MAK	Troques S RMA, SSANN Pressure SOR (SSANN) Pressure SOR (SSANNN) Pressure SOR (SSANNNN) Pressure SOR (SSANNNNN) Pressure SOR (SSANNNNN) Pressure SOR (SSANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	\$2(14.24 AM) \$2

16-mar-19 Deepsea Atlantic	16:00	20:30	270	860	11,03 WL OPERATIONS	97	RiH and log 20"csg and 16" liner for re-use.	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	15:35	16:00	25	0	11,02 RIG UP OR DOWN FOR WIRELINE		Rig up pad eye sub and WL wheel. M/U tool string, surface check logging BHA's and RIH T/100m.	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	15:25	15:35	10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100	Projob meeting before M/U and RIH with WL tool string. Cleaned and cleared drill floor.	35/11-B-11 HT5
16-mar-19 Deepsea Atlantic 16-mar-19 Deepsea Atlantic	15:00 14:50	15:25 15:00	25 10	0	38,01 CLEAN AND CLEAR RIGFLOOR 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100	Debrief after handling scrape BHA with involved personnel.	35/11-B-11 HT5 35/11-B-11 HT5
16-mar-19 Deepsea Atlantic 16-mar-19 Deepsea Atlantic	14:30 14:00	14:50 14:30	20 30	0 22	6,11 LAY DOWN BHA 6,08 POOH CH reduced speed	100	L/D assy #2, #1 and B/O XO. POOH with scrape BHA on 5 7/8" DPT/22m. P/U sngl from CW.	35/11-B-11 HTS 35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	13:45	14:00	15	315	6,11 LAY DOWN BHA	100	L/D Jar, magnets and R/B assy #3 in derrick	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	13:35	13:45	10	350	6,3 P/U DRILLSTRING		L/D dbl, compensated through BOP with mill and P/U dbl. POOH with scrape BHA on 5.7/8" DP.T/405m. Observed 9 ton OP when passed NBP with 20"	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	13:10	13:35	25	406	6,08 POOH CH reduced speed	100	scape.	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic 16-mar-19 Deepsea Atlantic	12:00 11:10	13:10 12:00	70 50	868 671	6,07 RIH CH Reduced speed 6,07 RIH CH Reduced speed	100	RIH reduced speed on 5 7/8" DP with 16" mill and 20" scrape assy T/868m MID. RIH reduced speed on 5 7/8" DP with 16" mill and 20" scrape assy.	35/11-B-11 HTS 35/11-B-11 HTS
16-mar-19 Deepsea Atlantic 16-mar-19 Deepsea Atlantic	10:35 10:25	11:10 10:35	35 10	350 315	6,1 MAKE UP BHA 6,07 RIH CH Reduced speed	100	P/U and RIH with 20" scrape assy and Jar/Magnet assy. RIH reduced speed on 5 7/8" DP with 16" mill.	35/11-B-11 HT5 35/11-B-11 HT5
16-mar-19 Deepsea Atlantic	10:15	10:25	10	50	6,31 L/D DRILLSTRING	100	L/D down sgl to RCWM.	35/11-B-11 HT5
16-mar-19 Deepsea Atlantic 16-mar-19 Deepsea Atlantic	09:55 08:55	10:15 09:55	20 60	22	6,1 MAKE UP BHA 25,22 DROP's Inspection	100	Make up assy #1 XOS and assy #2 Dropcheck on TD Main and HR Main	35/11-B-11 HT5 35/11-B-11 HT5
16-mar-19 Deepsea Atlantic	08:25 08:15	08:55 08:25	30 10	0	38,01 CLEAN AND CLEAR RIGFLOOR 6.11 LAY DOWN BHA	100	clean and clear driffloor Racked back wash STD in DRK	35/11-B-11 HTS 35/11-B-11 HTS
16-mar-19 Deepsea Atlantic 16-mar-19 Deepsea Atlantic	08:05	08:15	10	52	6,01 POOH CH	100	POOH with jetsub on 5 7/8" DP from 355 to 52	35/11-B-11 HT5
							Record up/down weight 74/74 ton. Jet BOP using SW, 4000lpm 35bar 10RPM. Boost with 1000lpm down kill & choke. Spaced	
16-mar-19 Deepsea Atlantic	06:20	08:05	105	383	5,06 JET AROUND WELLHEAD	100	out string and closed/opened UPR, MPR and LPR. Continued	35/11-B-11 HT5
16-mar-19 Deepsea Atlantic	06:00	06:20	20	360	6,1 MAKE UP BHA	100	RIH with jet sub on 5 7/8" DP. P/U 1 sgl 5 7/8" DP from RCWM. Cont. RIH on 5 7/8" DP	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	05:30	06:00	30	0	6,11 LAY DOWN BHA	100	B/O and L/D XO, driftsub and XO. 4 1/8" Drift recovered from driftsub. L/D muleshoe.	35/11-B-11 HT5
16-mar-19 Deepsea Atlantic	05:15	05:30	15	17	6,01 POOH CH	100	POOH with cement stinger from 390m to 17m on 5 7/8" DP. Flowcheck well before pulling BHA through BOP. Well static.	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	05:00	05:15	15	390	6,41 FLOW CHECK		Dropped 4 1/8" drift on std # 22. POOH with cement stinger from 850m to 390m on 5 7/8"	35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	04:45	05:00 04:45	15 15	390 870	6,01 POOH CH	100	DP. Flowchecked well static 10min.	35/11-B-11 HTS 35/11-B-11 HTS
16-mar-19 Deepsea Atlantic	04:30	04:45	- 15	870	6,41 FLOW CHECK		Displaced kill, choke and boost lines. Emptied TT. Lined up all pumps pumped 11m3 Hi-Vis	33/11-B-11 H13
16-mar-19 Deepsea Atlantic	03:10	04:30	80	870	5,02 DISPLACE WELL/RISER	100	soap pill. Displaced well to sw with 5000lpm/47Bar-50Rpm/2kNm. 9000strokes. Total 90m3 slop returned to separate pit.	35/11-B-11 HT5
							Install one wiper ball and circulated 1x8/U with 3500lpm/458ar- 50Rpm/2kNm. Total	
16-mar-19 Deepsea Atlantic 16-mar-19 Deepsea Atlantic	01:50 01:30	03:10	80 20	870 870	5,01 CIRCULATE HOLE CLEAN 6,6 POOH OH	100	pumped 10 000 strokes. POOH with cement stinger from 1020m to 870m	35/11-B-11 HT5 35/11-B-11 HT5
							Cont. Pump 14,4 m ³ 1,65 sg spacer with rig pump with 2500 lpm. Mixed and pumped 25,1m3 1,95sg.	
							Displaced to rigfloor with 250l water.	
16-mar-19 Deepsea Atlantic	00:00	01:30	90	1020	13,02 PUMP CMT		Disconnected cement hose. Displaced cement with 1,26 sg OBM. Total Pumped 429 strokes.	35/11-B-11 HTS
							Pump 14,4 m ³ 1,65 sg spacer with rig pump with 2500 lpm.	
15-mar-19 Deepsea Atlantic	23:50	00:00	10	1020	13,02 PUMPCMT		Meanwhile pressuretest surface line to 100bar/5min. Install PIS and run in to 1020, connect cmt hose to cmt std., and line up for surface test	35/11-B-11 HT5
15-mar-19 Deepsea Atlantic	23:40	23:50	10	1020	13 RIG UP AND DOWN CEMENT EQUIPMENT	100	against closed Low torque valve. 100bar/Smin Activate compensator and RiH carefully through OH and enter 14" csg at 980 m.	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	22:50	23:40	50	1000	5 CIRCULATE AND CONDITION MUD	100	Activate compensator and RiH carefully through OH and enter 14" cg at 980 m. Stage up circulation to 4000 lpm 57bar 50 rpm rotation on string and 2kNim. RiH with 5" cement stinger on 5 7/8" DP from 18m to 1000m	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	22:00	22:50	50	1000	6 RIH CH			35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	21:15	22:00	45	18	6,1 MAKE UP BHA 25.3 PREJORMETING - RRIFF/DERRIFF	100	P/U and M/U 5" Muleshoe, XO NCSO-XTS7, Drift sub and 1 sgl 5 7/8" DP. Maked up same.	35/11-8-11 HT5 35/11-8-11 HT5
15-mar-19 Deepsea Atlantic	21:00	21:15	15	0		100	Debrief after rig down casing tong. Prejobmeeting prior to RIH with kick off plug. Install pad eye sub in elevator and connect to casing tong. Lay out casing tong with top drive	
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	19:30 19:15	21:00 19:30	90 15	0	12,12 RIG DOWN CASING/LINER EQUIPMENT 12,12 RIG DOWN CASING/LINER EQUIPMENT	100 100	down to riser catwalk skid. Disconnect CRTI tool from TD and L/D in RCWM	35/11-B-11 HTS 35/11-B-11 HTS
15.mar.19 Deensea Atlantic	19:00	19:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100	Project meeting/handover prior to rig down casing equipment	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	16:15 15:45	19:00 16:15	165 30	436	12,05 PULL CASING IN CASED HOLE 12,11 RIG UP CASING/LINER EQUIPMENT	100	L/D csg stump to deck.POOH and R/B 14" CSG in derrick. L/D lower cut in RCWM. P/U CRTI from RCWM and connect TD in same. Installed	35/11-B-11 HTS 35/11-B-11 HTS
15-mar-19 Deepsea Atlantic							Performed debrief for pulling free casing. Performed prejob prior to rig up and POOH with 14" csg.	
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	15:30 15:15	15:45 15:30	15 15	436 436	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100	14" csg. Cleaned and cleared rig floor prior to POOH with 14" csg.	35/11-B-11 HTS 35/11-B-11 HTS
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	15:00 14:55	15:15 15:00	15	436 436	6,33 CHANGE HANDUNG EQUIPMENT 6,11 LAY DOWN BHA	100	Changed inserts in elevator to 5 7/8" prior to P/U CRTI. Released spare from 14" csg and L/D to RCWM.	35/11-8-11 HTS 35/11-8-11 HTS
15-mar-19 Deepsea Atlantic	13:30	13:35	5	436	12,11 RIG UP CASING/LINER EQUIPMENT			35/11-B-11 HT5
15-mar-19 Deepsea Atlantic	12:50	14:55	125	446	6,11 LAY DOWN BHA	100	Rack back 8" DC STD#1 in DRK and L/D Jar, Anchor assy to RCWM. Rack back 8" DC STD#2 and pulled fish through rotary.	35/11-B-11 HT5
15-mar-19 Deepsea Atlantic	12:40	12:50	10	558	6.33 CHANGE HANDLING FOLLIPMENT	100	Change handling equipment to 6 5/8".	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	12:30 12:00	12:40 12:30	10 30	558 558	25,3 PREJOBMEETING - BRIEF/DEBRIEF 12.14 LAND/ PULL CSG ON LANDING STRING	100	Projob prior L/D and R/B BHA. Pull 14" casing on 5.7(8" DP landingstring f/740m t/550m	35/11-B-11 HTS 35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	11:45	12:00	15	740	12,14 LAND/ PULL CSG ON LANDING STRING	100	Pull 14" casing on 5 7/8" DP landingstring f/740m t/550m. Pull 14" casing on 5 7/8" DP landingstring f/770m t/740m.	35/11-B-11 HT5
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	11:15 11:15	11:45 12:00	30 45	770 200	8,01 MECHANICAL REPAIRS 12,05 PULL CASING IN CASED HOLE	100	Replaced broken hydraulic coupling on TD.	35/11-B-11 HT5 35/11-B-11 HT5
15-mar-19 Deepsea Atlantic	10:30	11:15	45	770	6,74 COMPENSATE THROUGH BOP	100	Compensated jack assy and top fish through BOP.	35/11-B-11 HT5
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	10:15 10:05	10:30 10:15	15 10	890 890	6,04 PUMP SLUG 6,41 FLOW CHECK	100	Pumped 7m³ 1.58 SG slug Performed 10 min. flowcheck. Well stable.	35/11-B-11 HTS 35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	08:45	10:05	80	980	12,05 PULL CASING IN CASED HOLE	100	Sat down Ston top fish, pulled up to neutral and reengaged spear act. to BH instructions. Several attempts before sold engagement. "Half of instructions and an advantagement of the seasond. Pulled 2 x stands wet to get top fish into shoring 97-95m. Connected TD and otherwise balleast on jack assy with 345 BAR. White Lot must be set and the season season set of the season season set of the Nectorded by weight 98 box /Down weight 97 bto. Top-god Spear act. for Historications.	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	08:00	08:45	45	976	19,01 FISHING, OTHERS		Worked csg free with 10ton OP. Pulled slowly up 4m and observed OP. Increaced OP in steps T/80ton. String free down words.	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	07:10	08:00	50	980	6,07 RIH CH Reduced speed	400	1/BUTON. String Tree down words. RIH with Spear and Jack assy on 5 7/8" DP from 117m to 544m. Compensated spear/anchor through BOP.	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	07:00	07:10	10	117	6,33 CHANGE HANDLING EQUIPMENT		Change handling equipment to 5 7/8". Inserts in elevator and slips. P(I) and M(I) spear BHA according to Baker BHA drawings. Closp 1 1/8" hall, in ball drop sub. P(I) 1.88" DC Home BHA (I) 1.88"	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	04:15	07:00 04:15	165 15	117	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100	P/U 4 joints 8" DC from RCWM Prejob meeting prior to RIH with Spear.	35/11-B-11 HT5 35/11-B-11 HT5
15-mar-19 Deepsea Atlantic	03:45	04:00	15	0	25,22 DROP's Inspection	100	Prejob meeting prior to RIH with Spear. Drops inspection on boptrive, and lubricated same. Cleaned and cleared rigifloor.	35/11-B-11 HTS 35/11-B-11 HTS
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	03:00	03:30	15 30	0	6,11 LAY DOWN BHA	100	L/D sgl DP and MUT, rack back jetting stand.	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic	02:00	03:00	60	67	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100	POOH with MUT on 5 7/8" HWDP from 360m to 67m. Recorded Up/Draweight - 89/88 ton. Activated compensator and land 18 3/4" NBP in WH	35/11-B-11 HT5
15 mar 10 Deserve Artesia	04:45	03:00		422	6 22 ENGAGE TOR DRIVE AND TAND TOOLS		@ 383m. Correlated for tide. Sat down 5 ton. Sheared out bore protector with 7 ton OP(96 ton HL). Pulled over BOP an deactivated compensator.	25/11.0.11 HTT
15-mar-19 Deepsea Atlantic	01:45	02:00	15		6,23 ENGAGE TOP DRIVE AND LAND TOOLS		Wash NRR cotting ages with 2000 logs/EGbar, Roost sizes with 1000 logs while washing	35/11-B-11 HT5
15-mar-19 Deepsea Atlantic	01:30	01:45	15	383	5,06 JET AROUND WELLHEAD 6,75 TRIPPING RISER WITH FULL BORE TOOLS	100	Pumped total 1 x 8/U. RIH with MUT with 18 3/4" NBP on 5 7/8" HWDP from 63m to 360m.	35/11-B-11 HTS
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	00:45 00:30 00:15	01:30 00:45 00:30	45 15	360 63	6,75 TRIPPING RISER WITH FULL BORE TOOLS 1 RIG UP AND TEAR DOWN. 6,82 RIH with BHA	100	RITH WITH MUT With 18 5/4" NBP on 5 7/8" HWDP from 6-5m to 560m. Initial pipeloper and Autocilips. Rith with wash assy std and MUT with 18 3/4" NBP	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
15-mar-19 Deepsea Atlantic 15-mar-19 Deepsea Atlantic	00:15 00:00	00:30 00:15	15 15 15	63	6,82 RIH with BHA 25.3 PREJOBINEETING - BRIEF/DEBRIEF	100	RIH with wash assy std and MUT with 18 3/4" NBP	35/11-B-11 HTS 35/11-B-11 HTS
14-mar-19 Deepsea Atlantic	23:30	00:00	30	0	38,01 CLEAN AND CLEAR RIGFLOOR	100	Prejobmeeting prior to P/U MUT with 18 3/4" NBP. Cleaned and cleared rigfloor.	35/11-B-11 HT5
14-mar-19 Deepsea Atlantic	23:00	23:30	30	0	12,12 RIG DOWN CASING/LINER EQUIPMENT	100	Remove FMS, install master bushing. Broke out CRTLL/D same. Pull 4std off 14" casing and 1sgl with cut, rack back same in derrick. Problems lifting out	35/11-B-11 HTS
14-mar-19 Deepsea Atlantic	21:50	23:00	70	150	12,09 PULL CASING IN OPEN HOLE	100	Pull 4std off 14" casing and 1gg with cut, rack back same in derrick. Problems lifting out stand from Bow with Hydra racker, due to threads hanging. prejob meeting prior to Pull out with casing and rack back same.	35/11-B-11 HTS
14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic	21:40 21:20	21:50 21:40	10 20	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 12,11 RIG UP CASING/LINER EQUIPMENT	100	prejob meeting prior to Pull out with casing and rack back same. P/U CRTi tool from RCWM and install in top drive.	35/11-B-11 HTS 35/11-B-11 HTS
. 25 Ecopolis Adminic			2.0	v	,	200		
14-mar-19 Deepsea Atlantic	20:20	21:20	60	0	6,11 LAY DOWN BHA	100	Release spear assy and reetrack top drive. Install straps and tugger to casing hanger and brake out same. L/D 14" casing hanger in RCWM with tugger. L/D spear assy in RCWM.	35/11-B-11 HTS
4-mar-19 Deepsea Atlantic	19:30 19:15	20:20 19:30	50 15	0	12,11 RIG UP CASING/LINER EQUIPMENT 25,3 PREIOBMEETING - BRIEF/DEBRIEF	100	Rig up casing tong, remove masterbushing and install FMS slips in rotary. Prejobmeeting prior to L/D spear in RCWM.	35/11-B-11 HTS 35/11-B-11 HTS
		19:15	15 15	0	6,15 CHECK OF HANDLING EQUIPMENT	100	Check of handling equipment.	35/11-B-11 HTS
4-mar-19 Deepsea Atlantic	19:00	19:00		0	38,01 CLEAN AND CLEAR RIGFLOOR 12.05 PULL CASING IN CASED HOLE	100	Clean and clear driffloor. POOH with spear and casing joints.	35/11-B-11 HTS 35/11-B-11 HTS
14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic	18:30	18:30	30		12,05 PULE CASING IN CASED HULE 6,04 PUMP SLUG 6,41 FLOW CHECK	100	Proofs with speal after casing joints. Pumped Sm ² , Legs slug Flowcheck: Well static.	35/11-B-11 HTS
14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic	18:30 17:30	18:30 17:30	30 60 15	358		100		
14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic	18:30	18:30 17:30 17:15			6,41 FLOW CHECK		Connected TD took up/down weight - 90ton. RIH compensated and landed with 5 ton.	35/11-B-11 HTS 35/11-B-11 HTS
14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic	18:30 17:30 17:15 17:05	17:30 17:15	15 10	358 358			Connected TD took up/down weight - 90ton. RIH compensated and landed with 5 ton. latched on 14" csg acc to Baker rep. Pulled free with 16ton above upweight. Pulled hanger	
14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic	18:30 17:30	18:30 17:30 17:15 17:05 16:40	15	358	6,41 FLOW CHECK 12,05 PULL CASING IN CASED HOLE 6,82 RIH With BHA	100	Connected TD took up/down weight - 90ton. RIH compensated and landed with 5 ton.	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic 14-mar-19 Deepsea Atlantic	18:30 17:30 17:15 17:05 16:40 16:15 15:50	17:30 17:15 17:05 16:40 16:15	15 10 25 25 25	358 358 390 358 25	12,05 PULL CASING IN CASED HOLE 6,82 RIH With BHA 6,1 MAKE UP BHA	100 100	Connected T0 took up/down weight - 90ton. RH compensated and landed with 5 ton. latched on 14" csg act to Baker rep. Pulled free with 16ton above upweight. Pulled hanger above 80P. RitH with spare on 5 7/8" HWDP from 25m to 355m PUL Spear/puls. off: sil 5 7/8" do and Burnoer sub from RCWM.	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
14-mar-19 Deepsea Atlantic	18:30 17:30 17:15 17:05 16:40 16:15	17:30 17:15 17:05 16:40	15 10 25 25	358 358 390 358	12,05 PULL CASING IN CASED HOLE 6,82 RIH With BHA	100 100 100 100	Connected TD took up/down weight - 90ton. RH compensated and landed with 5 ton. Introduced on 14° cg act to Balar rep. Pulled free with 1.60 on above upweight. Pulled hanger above 800°. If this with sparse on 5 7/8° HWIDP from 25m to 358m If you Spear place 60°, up 5 7/8° do and Sumper sub from RCWM. Cleaned and Calend of Will Roor.	35/11-B-11 HTS 35/11-B-11 HTS
14-mar-19 Deeptee Atfantic	18:30 17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20	17:30 17:15 17:05 16:40 16:15 15:50 15:35	15 10 25 25 25 25 15	358 358 390 358 25 0	12,05 PULL CASING IN CASED HOLE 6,82 RIH WITH BHA 6,1 MAKE UP BHA 5,3 RECOMMETTING - BREFFOEBRIFF 38,01 CLEAN AND CLEAR RIGITION	100 100 100 100 100	Connected TD took up/flown weight - 90cm. RH compensated and landed with 5 ton. totation on 14° cg as to bake rep. Pulled from with 150m above spweight. Pulled hanger above 8DP. Plus Speak point 57 RH HMDP from 25m to 358m Plus Speak point 57 RH HMDP from 25m to 358m Plus Speak point 57 RH HMDP from 25m to 358m Plus Speak point 57 RH HMDP from 25m to 358m Classified and classified with 150m. Classified and classified with about 50m should be supported to the 150m Spin and 150 MTP with lead stoop, which cup as you yand Rylis DP stand in co-operation with	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
14-mar-19 Despesa Atlantic	18:30 17:30 17:15 17:05 16:40 16:15 15:50 15:35	17:30 17:15 17:05 16:40 16:15 15:50	25 25 25 25 15	358 358 390 358 25 0	12,05 PULL CASING IN CASED HOLE 6,82 RIH WICH BHA 6,1 MAXE UP BHA 25,3 PBELDBUKETING - BRIEF/DEBRIEF	100 100 100 100 100 100	Connected TD Dock up(down-weight - 100m. Bit compensated and Indeed with 5 too. This control of 10° (ag or 10 miles rep. Public rever 10 flows above 100°). This control of 10° (ag or 10 miles rep. 10° (ag or 10 miles rep. 10°) (ag or 10 miles rep. 10°) (ag or 10 miles rep. 10°) (ag or 10°) (35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
14-mar-19 Despise Atlantic	18:30 17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45 13:50	17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45	15 10 25 25 25 25 15 15 15	358 358 390 358 25 0 0	12,05 PAIL CASING IN CASED HOLE 6,12 SRI HUM BIGA. 6,1 MART UP BRA 7,3, PRICORDERING SREET/PORRIET 83,01 CLIAN AND CLIAR REQUIRE 6,11 LAY DOOM BRA 6,75 TRIPPING RISER WITH PAIL BORE TOOLS	100 100 100 100 100 100	Connected TD took applicant weight: 9500s. This componentate and table delith 51 mill. The control of 1°C sign at the brain are placed for well sign and control one of significant for the sign and th	35/11-8-11 HTS
14-mar-19 Despise Atlantic 14-mar-19 Service Atlantic 14-mar-19 Service Atlantic 14-mar-19 Service Atlantic 14-mar-19 Despise Atlantic	18:30 17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45 13:50	17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45	15 10 25 25 25 25 15	358 358 390 358 25 0 0	12.05 PRAIL SCHOOL IN CASCO POILE 6.82 RH WINS BRAN 6.1 MANT UP DHA 15.3 PRECOMMETTING SHEP/CORREFE 15.8 SHE COMMETTING SHEP/CORREFE 15.8 SHE COMMETTING SHEP/CORREFE 15.1 SHEP/COMMETTING SHEP/CORREFE 15.1 SHEP/COMMETTING SHEP/CORREFE 15.1 SHEP/CORREFT 12.13 SEAL ASSEY/WEAR BUSHING	100 100 100 100 100 100 100	Connected TO took applicans weight: 9500s. This componented and talked with 5 tan. The control of 5°C quite Control of the Co	35/11-8-11 HTS
14-mar-19 Deepse Atlantic	18:30 17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45 13:50	17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45	15 10 25 25 25 25 15 15 15	358 358 390 358 25 0 0	12,05 PAIL CASING IN CASED HOLE 6,12 SRI HUM BIGA. 6,1 MART UP BRA 7,3, PRICORDERING SREET/PORRIET 83,01 CLIAN AND CLIAR REQUIRE 6,11 LAY DOOM BRA 6,75 TRIPPING RISER WITH PAIL BORE TOOLS	100 100 100 100 100 100 100 100	Connected TD took up/show weight: 950m. The componentate and table det with 5 tem. And the Connected TD took up/show weight: 950m. The componentate and table with 5 tem. Billier with square on 5.79° MoVP from 250m 250m 250m 250m 250m 250m 250m 250	35/11-8-11 HTS
4-mar 19 Despose Atlantic A-mar 19 Despose Atlantic	18:30 17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45 13:50	17:30 17:15 17:05 16:40 16:15 15:50 15:35 15:20 14:45	15 10 25 25 25 25 15 15 15	358 358 390 358 25 0 0	12.05 PRAIL SCHOOL IN CASCO POILE 6.82 RH WINS BRAN 6.1 MANT UP DHA 15.3 PRECOMMETTING SHEP/CORREFE 15.8 SHE COMMETTING SHEP/CORREFE 15.8 SHE COMMETTING SHEP/CORREFE 15.1 SHEP/COMMETTING SHEP/CORREFE 15.1 SHEP/COMMETTING SHEP/CORREFE 15.1 SHEP/CORREFT 12.13 SEAL ASSEY/WEAR BUSHING	100 100 100 100 100 100 100 100	Connected TO took applicans weight: 9500s. This componentate and table deet with 5 can control on 5°C or gas to Door have placed be veri him too above specifier. Publish langue Him with square and 5 7.0° Hord? Horn 25 also 1556a. 1971 September 3.0° 5.3° "15° and Bramper and From 6.0° MA. Control after him state specifier. 30° and Bramper and From 6.0° MA. Control after him state specifier. 30° and Bramper and From 6.0° MA. Control after him state specifier. 30° and Bramper and From 6.0° MA. So for 40° DATP with made asso, used to go asso 40° R. DO "stated in conpensation with BM-MARK. 10° All of MARK The MARK STATE AND	35/11-8-11 HTS

emar-19 Deepsea Alfantic	18:45 17:25 17:15 16:45 16:35 15:00 14:45 13:45 13:15 12:55 12:35 12:00	19:40 18:45 17:25 17:15 16:45 16:35 15:00 14:45 13:45 13:15 12:55 12:35	55 80 10 30 10 95 15 60 30 20 20	1310 402 364 24 5 0 0 0 0 0 20 20	6,74 C 6,07 R 6,31 L 6,1 N 25,3 P 23,5 V 38,01 C 6,11 L	IN CH Reduced speed OMERSATE TRANSCH BOP IH CH Reduced speed TO DRILSTRING MAC UP BHA MELDBARETRING BREF/DEBREF WOW CHANE LEAN AND CLEAR RIGHLOR I OP OWN BHA I GUP AND TEAR DOWN. YO DOWN BHA I OP AND TEAR DOWN.	100 Training with new parrones. 100 Campanade Through Birth With E287 place. 100 Campanade Through Birth With E287 place. 100 Training with new parrones. 100 Training with new parrones. 100 Birther and wild believe blood \$1.7 Right Dirth repare out. 100 March up (TSV yright port Ti. March up 105 and diffrauth. 100 Birther and wild believe blood \$1.7 Right Dirth repare out. 100 Chapter of the strong with and register, such the beaut and real/plath. No craw operation. 101 Chapter and cleared difficults. 102 Chapter and cleared difficults. 103 Chapter and cleared difficults. 104 Tall or firstly and crames welper. 105 Tall or firstly and crames welper. 106 Tall or firstly and crames welper.	35/11-8-11 HTS
-mar-19 Deepsea Atlantic	17:25 17:15 16:45 16:35 15:00 14:45 13:45 13:15 12:55	18:45 17:25 17:15 16:45 16:35 15:00 14:45 13:45 13:15	80 10 30 10 95 15 60 30	1310 402 364 24 5 0	6,74 C 6,07 R 6,31 L 6,1 N 25,3 P 23,5 V 38,01 C 6,11 L	OMPERSATE THROUGH BOP IF CH REGULAR THROUGH BOP ID DRILLSTRING DORLLSTRING DRILLSTRING DRIL	100. Compensated from all DOP with LEXP play. 100 from you are with a SCE of much recode speed according to Hallburton recommendation. 100 from you are with a SCE of much recode speed according to Hallburton recommendation. 100 Much up 100 from a SCE of Much 100 from a SC	35/11-8-11 HTS
-mar-19 Deepsea Atlantic	17:25 17:15 16:45 16:35 15:00 14:45 13:45	18:45 17:25 17:15 16:45 16:35 15:00 14:45 13:45	80 10 30 10 95 15 60	1310 402 364 24 5 0	6,74 C 6,07 R 6,31 L 6,1 N 25,3 P 23,5 V	OMPENSATE THROUGH BOP IH CH REduced speed // D DRILLSTRING IANG UP BHA REDOBMETING - BRIEF/DEBRIEF VOW CRANE LEAN AND CLEAR RIGFLOOR	100 Compensated through IADP with LEXP plays. Bit from 24 the 42th and withcuted speed according to Hallburton recommendation. 100 Training with new personal. 100 Bits and well build believe about 15 / 80 Pf or space out. 100 Marks up CTV ying by RTF. Marks up XDS and of through. 100 Marks up CTV ying by RTF. Marks up XDS and of through US and with the ADP with th	35/11-8-11 HTS
mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic	17:25 17:15 16:45 16:35 15:00 14:45	18:45 17:25 17:15 16:45 16:35 15:00	80 10 30 10 95 15	1310 402 364 24 5 0	6,74 C 6,07 R 6,31 L 6,1 N 25,3 P	OMPENSATE THROUGH BOP IH CH Reduced speed // D DRILLSTRING FAKE UP BHA REJOBMEETING - BRIEF/DEBRIEF	300 Compensated through BOP with ISSN plays. 201 To Flow A the AGC in with Invested speed according to Hallburton recommendation. 201 To Flow A the AGC in with Invested speed according to Hallburton recommendation. 202 To Flow A the AGC in AGC	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
-mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic	17:25 17:15 16:45 16:35 15:00	18:45 17:25 17:15 16:45 16:35	80 10 30 10 95	1310 402 364 24 5	6,74 C 6,07 R 6,31 L 6.1 N	OMPENSATE THROUGH BOP IH CH Reduced speed //D DRILLSTRING AAKE UP BHA	100 Compensated through 80P with EXPS plag. RIM for no 2 Am to 402 m. bit of 20cm according to Hallburton recomandation. 100 Training with new personal. 100 River out and laid down double 5 7/8 DP for space out. 100 Made up EXPS plag to RT. Made up XOS and driftsub. 100 Riverhooseties for braiding EXPS when BMA.	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
-mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic	17:25 17:15 16:45 16:35	18:45 17:25 17:15 16:45	80 10 30 10	1310 402 364	6,74 C	OMPENSATE THROUGH BOP IH CH Reduced speed // D DRILLSTRING	100 Compensated through BOP with EZSV plug. Rill from 24 m to 402 m with reduced speed according to Halliburton recomandation. 100 Training with new personel. 100 Broke out and Isid down double 5 7/8 DP for space out.	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
-mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic	17:25 17:15	18:45 17:25	80 10	1310 402	6,74 C	OMPENSATE THROUGH BOP	100 Compensated through BOP with EZSV plug. RIH from 24 m to 402 m with reduced speed according to Halliburton recomandation.	35/11-B-11 HT5
-mar-19 Deepsea Atlantic	17:25	18:45	80	1310	6,07 R	IH CH Reduced speed OMPENSATE THROUGH BOP	100 Compensated through BOP with EZSV plus.	
			55					
				1330	12,88 S	ET/RELASE MECH PLUGS	100 RT released @ 26ton OP. Run in and tagged plug with Ston. RIH from 402 m to 1310 m with reduced speed according to Halliburton recomandation.	35/11-B-11 HTS
							breaked circulation, washed setting area with 800lpm/11bar. Picked up to setting depth stopped pumping and started rotating 36 right hand rotations, picked up in steps of 9ton OP	
							Connected TD RIH to setting depth upweight-104ton downweight-97ton. Filled pipe and	
-mar-19 Deepsea Atlantic	19:40	20:45	65	1330		IRCULATE AND CONDITION MUD	Circulated 1 x B/U with 2500(pm/49bar Meanwhile prejob prior to set balanced cement 100 plug.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	20:45	21:00		1330		IG UP AND DOWN CEMENT EQUIPMENT	Racked back 1 std and installed cmt std, washed down to 3m above EZSV. Connected cmt 100 hose and lined up for surface test 100bar/5min.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	21:00	22:20	80	1330	13,02 P	UMP CMT	disconnected hose from cmt std. Displaced cmt with 1,65sg spacer and 1,38sg OBM while 100 rotating with 30rom.	35/11-B-11 HT5
							Pump 12,4m³ 1,65sg spacer with Rig pumps 2500lpm/36bar and sat 50bar on KC TD. Opened low tourge and pumped 14,5m³ 1,93sg cmt slurry. Closed low tourge and	
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	22:25 22:20	22:45 22:25	20 5	1170 1330		OOH CH reduced speed IG UP AND DOWN CEMENT EQUIPMENT	100 R/B cmt stand in derrick.	35/11-B-11 HTS 35/11-B-11 HTS
mar-19 Deepsea Atlantic	22:45 22:25	00:00	75	1170 1170		IRCULATE HOLE CLEAN OOH CH reduced speed		35/11-B-11 HTS 35/11-B-11 HTS
Deepses Atlantic	00:00	00:10	10	11/0	5 0	INCODATE MIND CONDITION MUD	100 stroke counter. Pulled back 5m and circulated with 2500pm/4ebar and 50rpm/5ekem. POOH T/1175m MD without rotation/pumping. Installed one wiper ball in string and zero	2-0-11 U(2
-mar-19 Deepsea Atlantic	00:00	00:10	10	1170		IRCULATE AND CONDITION MUD	POOH T/1175m MD without rotation/pumping. Installed one wiper ball in string and zero 100 stroke counter. Pulled back 5m and circulated with 2500ipm/46bar and 50rpm/6kNm.	35/11-B-11 HT5
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	00:10	00:20	10	1170		LOW CHECK	100 Dropped 4" ontt top sto # 31. 100 Flow checked well against TT. Well static	35/11-B-11 HTS
mar-19 Deepsea Atlantic	00:20	00:50	30	1170		UMP SLUG	Slugged pipe with 6m ³ 1,72sg OBM and displaced down string with 1,38sg OBM. 100 Dropped 4" drift top std # 31.	35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	01:25 00:50	01:30 01:25	5 35	363 400	6,74 C	OMPENSATE THROUGH BOP OOH CH	100 Compansate through BOP with 100 POOH on 5.7/8"DP with 14" F7SV RT from 1170m to 383m	35/11-8-11 HTS 35/11-8-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	01:45 01:30	02:20 01:45	35 15	3	6.01 P	AY DOWN BHA OOH CH	100 peration with BH rep. 100 POOH on 5 7/8"DP with 13 3/8" EZSV RT from 363m to 3m.	35/11-B-11 HTS 35/11-B-11 HTS
			10	-				
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	02:30	02:40	10 10	0	38,01 C	LEAN AND CLEAR RIGFLOOR REJOBMEETING - BRIEF/DEBRIEF	100 Cleaned and cleared driff floor. 100 Debrief after POOH with RT and prejob meeting before RIH with 12 1/4" Rock bit.	35/11-B-11 HTS 35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	02:45 02:40	02:50 02:45	5 5	101 17	6,1 N	IH with BHA NAKE UP BHA	100 RIH with 12 1/4" BHA on 5 7/8" HWDP T/101m. P/U sngl from CW.1047 100 P/U and M/U 12 1/4" BHA from RCWM.	35/11-8-11 HTS 35/11-8-11 HTS
mar-19 Deepsea Atlantic	02:50	04:00	70	1085		IH CH	100 RIH with 12 1/4" BHA on 5 7/8" DP F/101m T1047m MD. Compensated through BOP.	35/11-8-11 HTS
mar-19 Deepsea Atlantic	04:00	07:00	180	1085	13,01 V	VAIT ON CEMENT	100 Preparementing for displacing with 10.1, 26.5 (c) URM Waited for cement to set up. Alexamyhilia cut MW in surface system from 1.38 SG to 1.26 SG, 97 Performed maintenace on drillfloor equipment.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	07:00	07:15	15	1085	25,3 P	REJOBMEETING - BRIEF/DEBRIEF		35/11-B-11 HTS
-mar-19 Deepsea Atlantic	07:15	08:45	90	1085		ISPLACE WELL/RISER	Filled pipe and displaced will to 1,26 gr OBM, according to plan from mud ing with 4000 100 lpm/135 bar , 30 rpm and slow resignorating of string.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	08:45	10:40	115	1085		IRCULATE AND CONDITION MUD	100 Circulated well with 4000 lpm/135 bar, 30 rpm/2 kNm and slow resiprocating of string.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	10:40	11:40	60	1176		IH CH	Washed down from 1085 m to 1176 m with 300 lpm and 30 rpm. Indications of firm cement 100 at 1176 m.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	11:40	12:00	20	1183		RILL CEMENT	Drilled cement from 1176 m from to 1182 m with 3000 lpm/85 bar and 80 rpm. Tag cement	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	12:45 12:00	12:55 12:45	10 45	1178 1183	6,41 F	LOW CHECK IRCULATE HOLE CLEAN	100 Flow check well due to POOH. 100 Circulate B/U with 4000 lpm, 135 bar and 50 rpm.	35/11-B-11 HTS 35/11-B-11 HTS
-mar-19 Deepsea Atlantic	12:55	13:20	25	1178		UMP SLUG	Pumped 6 m3 1,56 SG slug and displaced same. Meanwhile installed wipers and plate in 100 rotary.	35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	13:50	14:05 13:50	15 30	556 556		OOH CH	100 POOH from 1178 m to 556 m.	35/11-B-11 HTS 35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	14:05	14:10 14:05	5	556 556	6,01 P	OOH CH LOW CHECK	100 Compensate throug BDP from 404 m to 366 m. 100 POOH from 556 m to 404 m. 100 Flow checked well prior to pull BHA and hwdp through BOP.	35/11-B-11 HTS 35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	14:15 14:10	14:25 14:15	10 5	366 404	6,74 C	OOH CH OMPENSATE THROUGH BOP	100 POOh from 366 m to 111 m.	35/11-B-11 HTS 35/11-B-11 HTS
mar-19 Deepsea Atlantic	14:25	14:35	10	111	6,31 L	/D DRILLSTRING	100 Removed EZSV plug on RCWM prior to lay down DP sng to RCWM.	35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	14:40 14:35	14:50 14:40	10	20 111	1 R	IG UP AND TEAR DOWN. AY DOWN BHA	100 Removed wipers and plate in rotary. 100 Pull out with 2 stand 5 7/8" HWDP.	35/11-8-11 HTS 35/11-8-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	15:00 14:50	15:10 15:00	10 10	20 20	6.11 L	REJOBMEETING - BRIEF/DEBRIEF AY DOWN BHA	100 Handover and prejob before L/D BHA to RCWM and P/U EZSV RT. 100 Break out jar and 12 1/4" rock bit. L/D same to RCWM.	35/11-8-11 HTS 35/11-8-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	15:25 15:10	15:40 15:25	15 15	0	6.11 L	LEAN AND CLEAR RIGFLOOR AY DOWN BHA	100 Clean and clear drifffoor prepare for next operation RIH with 14" EZSV. 100 Break out jar and 12 1/4" rock bit. L/D same to RCWM.	35/11-B-11 HTS 35/11-B-11 HTS
-mar-19 Deepsea Atlantic	15:40	16:15	35	6	6,1 A	MAKE UP BHA	100 RIH with 14" EZSV plug from 6m to 363m. 100 P/U EZSV R/T maked up 5 7/8" DP STD and installed 14" EZSV plug.	35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	16:40 16:15	16:45 16:40	5 25	401 363	6,74 C	OMPENSATE THROUGH BOP IH CH Reduced speed	100 Compensate through BOP with 14" EZSV plug.	35/11-B-11 HTS 35/11-B-11 HTS
mar-19 Deepsea Atlantic	16:45	17:30	45	1006	6,07 R	IH CH Reduced speed	100 RIH with 14" EZSV plug from 363m to 1006m.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	17:30	18:15	45	1025	17.88 5	ET/RELASE MECH PLUGS	and started rotating 36 CW and set plug. Released setting tool from plug with 27ton OP 100 POOH 4m and rotated 22turn CW to protect R/T when tagging plug.	35/11-8-11 HTS
							Installed TD and filled string took up weight -95ton down weight -93ton. RIH to setting depth @ 1025m break circulation and circulated with 600[pm/] Par while carefully reciprocated the string 5m strokes across setting area for 5min, Vicked up to setting depth stopped pumping	
mar-19 Deepsea Atlantic	18:15	18:16	1	1020	6,04 P	UMP SLUG	Pumped 4 m3 1,72 SG slug and displaced same. Meanwhile installed wipers and plate in 100 rotary.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	18:16	18:55	39	401		OOH CH	100 Compensate enrough 60° with VI. 100 POOH with RT from 1200 to 401m. Pumped 4 m3 1,72 SG slug and displaced same. Meanwhile installed wipers and plate in	35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	19:00 18:55	19:15 19:00	15 5	6 363	6,74 C	OOH CH OMPENSATE THROUGH BOP	100 POOH with R/T from 363m to 6m. 100 Compensate through BOP with R/T.	35/11-B-11 HT5 35/11-B-11 HT5
-mar-19 Deepsea Atlantic	19:15	19:45	30	0	6.11 L	AY DOWN BHA	100 B/O 5 7/8" STD and L/D R/T to RCWM.	35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	19:55 19:45	20:10 19:55	15 10	0	25,3 P	REJOBMEETING - BRIEF/DEBRIEF LEAN AND CLEAR RIGFLOOR	100 14" cutter BHA. 100 Cleaned and cleared driffloor.	35/11-B-11 HTS 35/11-B-11 HTS
-mar-19 Deepsea Atlantic	20:10	20:25	15	10		MAKE UP BHA	100 @ 370 LPM - 4 BAR. Performed debrief for EZSV plus run. Performed pre job meeting prior to P/U and RIH with	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	20:25	21:15		959		IH CH	100 RIH with 14" cutter assy from 10m to 959m. P/U 14 * cutter assy. Connected TD and performed surface test of cutters. Cutters activated	35/11-B-11 HT5
I-mar-19 Deepsea Atlantic	21:15	22:00	45 50	983		ILL PIPE	100 cutters @ cut depth 980m.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	22:00	22:20	20	983		UT CASING	Connected TD and filled pipe. Slow filling due to cutters activate @ 370LPM. Positioned	35/11-B-11 HTS
							100 Flow checked well for 10 min. Well static. Cutted 14" csg according to Baker procedure. Max rate 1000 RPM - 50 BAR - 90 RPM - 5-15 100 kNm TQ, Verified cut according to Baker.	
-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	23:15 22:30 22:20	23:30 23:15 22:30	15 45 10	547 547 983	25,3 P 6,01 P	REJOBMEETING - BRIEF/DEBRIEF OOH CH LOW CHECK	100 Projetomeeting prior to cut 14" casing 100 POOH with 14" cutter assy to shallow cut depth @ 544m. Pulled wet.	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	23:30	00:00	30	547	12,3 C	UT CASING REJOBMEETING - BRIEF/DEBRIEF	100 kNm TQ, Verified cut according to Baker.	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	00:00	00:10	10	547	6,41 F	LOW CHECK	100 Flow check well for 10 min. Well static. Cutted 14" or according to Baker procedure. May rate 1000 RPM - 37 RAB - 90 RPM - 5-15.	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	02:00 00:10	02:10 02:00	10 110	544 544	6,41 F	LOW CHECK IRCULATE AND CONDITION MUD	100 Flow check well for 10 min. Well static. 100 Circulate 1 X BU	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	03:10 02:10	03:20 03:10	10 60	10	6.01 P	AY DOWN BHA OOH CH	100 Remove slips in rotary, Balker inspect BHA. L/D cut assy on RCWM. 100 POOH with cut assy on 5 7/8" DP	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	03:35	03:50 03:35	15 15	0	38 01 C	REJOBMEETING - BRIEF/DEBRIEF LEAN AND CLEAR RIGFLOOR	100 Clean and clear drillfloor.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	03:50	04:00	10	0	6,33 C	HANGE HANDLING EQUIPMENT	100 P/U and M/U 14" MUT according to Aker 100 Install bowks and slips in rotary. 100 Debrief after POOH. Prejobeneeting prior to P/U MUT and RIH.	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	04:00	04:15	45	38		MAKE UP BHA	RIH with jet sub on 5 7/8" DP STD	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	05:00 04:15	05:15 05:00	15	430 430	12,13 S	EAL ASSY / WEAR BUSHING RIPPING RISER WITH FULL BORE TOOLS		35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	05:15	05:30	15	383	6,22 V	VASH DOWN	100 Solouping Secari Record up/down weight 91/90 ton. Land MUT in WH and set down 10 ton. Landing MUT @383m.	35/11-B-11 HTS
							Rack back 1 std and connect topdrive. Jet around WH are for 10 min. Parameters: 100 3000lpm/56bar	
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	06:30 05:30	06:45 06:30	15 60	67	6,11 L	AY DOWN BHA RIPPING RISER WITH FULL BORE TOOLS	100 L/D MUT with WB to deck. Secured WB to MUT with sling when L/D. R/B Jet sub std. 100 POOH with MUT on 5 7/8" HWDP from 383m to 67m. Use of mudbucket.	35/11-8-11 HTS 35/11-8-11 HTS
I-mar-19 Deepsea Atlantic	06:45	07:15	30	0	38,01 C	LEAN AND CLEAR RIGFLOOR	100 clean and clear driffloor	35/11-B-11 HTS
l-mar-19 Deepsea Atlantic	07:30 07:15	07:40 07:30	10 15	40 0	25,3 P	MAKE UP BHA REJOBMEETING - BRIEF/DEBRIEF	100 Make up 3 1/2* XOS to 5 7/8* DP 100 Prejob before RiH with MPT and Swab cup	35/11-8-11 HTS 35/11-8-11 HTS
-mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic	09:00 07:40	09:05 09:00	5 80	40 484	6 R	OOH CH	100 POOH 100 RIH to 484m with 2 std 5 7/8" DP 11 std 5 7/8" HWDP. Dropped 3 5/8" drift	35/11-B-11 HTS 35/11-B-11 HTS
l-mar-19 Deepsea Atlantic	09:05	09:15	10	0	6 11 L	AY DOWN RHA	100 Break down 3 1/2" XOS and racked back 5 7/8" DP.	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	09:15	09:40	25	61		MAKE UP BHA	100 P/U Swab cup from RCWM and installed 5 7/8" DP. P/U MPT and installed same to 5 7/8"DP.	
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	10:00 09:40	10:30 10:00	30 20	358 358	25,3 P	REJOBMEETING - BRIEF/DEBRIEF IH CH	100 Performed well control forum with involved personell prior to release sealassy. 100 RIH with swab cup BHA on 5 7/8" HWDP T/358m.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	10:30	12:00	90	434	12.13 S	EAL ASSY / WEAR BUSHING	Pulled seal assy free with S8ton OP: Pulled seal assy 1m above and closed choke. No 100 pressure build up observed on choke.	35/11-B-11 HTS
							Closed lower AP and reduced closing pressure.	
							Opend lower AP and pressure up landing string /100bar. Land MPT in seal assy with 10ton WOB.	
							Dropped BH 1 3/8" ball and RIH with MPT to above BOP. Closed lower AP, reduce closing pressure and open FS/choke.	

2-mar-19 Deepsea Atlantic 2-mar-19 Deepsea Atlantic	10:10 09:40	11:15 10:10	65 30	930 1959	6,01 POOH CH 1 RIG UP AND TEAR DOWN.	100 POOH from 1959 m to 930 m. Reduced speed while POOH due weather conditions. 100 Fished out loose wipers in rotary. Reinstalled wipers in rotary. POOH from 2367 m to 1959 m. Much righ movement while tripping. Wipers fell off pipe in	35/11-B-11 HTS 35/11-B-11 HTS
-mar-19 Deepsea Atlantic	09:15	09:40	25	1959	6,01 POOH CH	100 rotary while POOH.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic	09:10 09:00	09:15 10:00	5 60	2367 800	6,3 P/U DRILLSTRING 6,41 FLOW CHECK	100 Picked up and made up sgl from RCWM. 100 Flow checed well against TT before pull BHA through BOP.	35/11-B-11 HT5 35/11-B-11 HT5
-mar-19 Deepsea Atlantic	08:45	09:10	25	2367	6 OA DIIMB SI IIG	Pumped 6 m3 1,75 SG slug and displaced same. Meanwhile installed wipers and plate in 100 rotary.	26/11-P-11 HTS
2-mar-19 Deepsea Atlantic	08:30	08:45	15	2367	6,41 FLOW CHECK	100 Flow checked well	35/11-B-11 HTS
2-mar-19 Deepsea Atlantic 2-mar-19 Deepsea Atlantic	08:00 07:40	09:00 08:30	60 50	800 2367	6,01 PODH CH 5,01 CIRCULATE HOLE CLEAN	100 POOH with 12 1/4" BHA on 5 7/8" DP T/800m MD. 100 Circulated B/U with 4000 lpm/210 bar and 50 rpm/8-10 kNm.	35/11-B-11 HTS 35/11-B-11 HTS
2-mar-19 Deepsea Atlantic	07:00	07:40	40	2388	2,3 DRILL CEMENT	Drilled /washed from 2372 m to 2388 m with 3000 lpm/126 bar and 50 rpm/13 kNm , 2-5 100 ton WOB. Tapped cement with 10 ton and 500 lpm.	35/11-B-11 HTS
2-mar-19 Deepsea Atlantic	07:00	08:00	60	9999	6,04 PUMP SLUG	Slugged pipe with 6m³ 1,72sg OBM and displaced down string with 1,38sg OBM. 100 Meanwhile installed wiper and plate in rotary.	35/11-B-11 HTS
2-mar-19 Deepsea Atlantic 2-mar-19 Deepsea Atlantic	06:00 04:30	07:00 06:00	60 90	2365 2363	13,01 WAIT ON CEMENT 5.01 CIRCULATE HOLE CLEAN	97 Waited for cmt to set up. L/D sgl. Installed new stand. 100 Circulated 1 B/U with 3000(pm/130bar while resiprocated string.	35/11-B-11 HTS 35/11-B-11 HTS
2-mar-19 Deepsea Atlantic	03:40	04:30	50	2372	2,3 DRILL CEMENT	100 Drilled soft cmt T/ 2372m MD with max 4ton WOB. RIH with 12 1/4" BHA with reuced speed T/2300m MD. Connected TD and washed down	35/11-B-11 HTS
2-mar-19 Deepsea Atlantic	02:45	03:40	55	2355	6,07 RIH CH Reduced speed	100 with S00lpm/10bar and tagged TOC @ 2355m MD.	35/11-B-11 HTS
2-mar-19 Deepsea Atlantic	01:00	02:45	105	2225	13,01 WAIT ON CEMENT	Waited for cement to set up. Meanwhile installed csg tong in AUX. Changed handling equipment in AUX to handle 10 3/4* 97 csg, Installed grease manifold on Main dolly/TD. General maintenance on drilling equipment.	25/11-9-11 HTS
2-mar-19 Deepsea Atlantic	00:45	01:00		2225	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Performed debrief after RIH with 12 1/4" Dress off BHA. Meanwhile connected TD and filled 100 pipe.	35/11-B-11 HTS
2-mar-19 Deepsea Atlantic	00:00	00:45	45	2225	6,07 RIH CH Reduced speed	RIH with 12 1/4" Dress off BHA on 5 7/8" DP from 1590m to 2225m. Reduced speed due to 100 cement.	35/11-B-11 HTS
11-mar-19 Deepsea Atlantic 11-mar-19 Deepsea Atlantic	23:25 23:15	00:00 23:25	35 10	1590 1095	6,07 RIH CH Reduced speed 25,3 PREJOBMEETING - BRIEF/DEBRIEF	RIH with 12 1/4" Dress off BHA on 5 7/8" DP from 1095m to 1590m. Reduced speed due to 100 cement. 100 Performed debrief of trip. Meanwhile emtied TT's and filled pipe.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	22:30	23:15	45	1095	6,07 RIH CH Reduced speed	RIH with 12 1/4" Dress off BHA on 5 7/8" DP from 407m to 1095m. Reduced speed due to 100 cement.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	22:25 21:55	22:30 22:25	5 30	407 370	6,74 COMPENSATE THROUGH BOP	100 Compensate 12 1/4" rock bit through BOP. 100 RIH on 5 7/8" HW with 12 1/4" Rock bit from 36m to 370m.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	21:45	21:55	10	36	6,31 L/D DRILLSTRING	100 L/D dbi 5 7/8" HWDP to RCWM	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	21:25	21:45	20	18	6,1 MAKE UP BHA	100 P/U 12 1/4" Bit assy#1 and Jar assy #2 from RCWM and make up same. Performed debrief after POOH with EZSV RT. Performed projob prior to P/U and RIH with 12	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	21:10	21:25	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 1/4" cmt dress off BHA. Replaced rigtongs on drifffoor. Removed X/O from plug RT in AUX. Prepared next BHA items	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	20:55 20:15	21:10 20:55	15 40	0	6,33 CHANGE HANDLING EQUIPMENT 38,01 CLEAN AND CLEAR RIGFLOOR	100 in catwalk. 100 Cleaned and cleared driffloor.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	19:40 19:25	20:15 19:40	35 15	0	6,11 LAY DOWN BHA 6,01 POOH CH	100 Removed wiper, plate and POOH with RT. Inspected plug RT and L/D.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	19:25	19:40	15	470	6,01 POOH CH 6,41 FLOW CHECK	100 POOH with plag 8T on 5 7/8" DP to surface. Compensated through BOP. Floov checked well against TT before pull plug 8T through BOP. 100 Meanwhile performed prejob for L/D plug and RiH with 12 1/4" rock bit.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	17:30	19:10	100	470	6,01 POOH CH	POOH from 2300 m to 470 m. Dropped 3 5/8 drift on stand 61. Checked box on connections	35/11-B-11 HT5
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	17:00 16:45	17:30 17:00	30 15	2300 2300	6,04 PUMP SLUG 6,41 FLOW CHECK	100 for cmt while tripping out. 100 Pumped 6 m 3 1,72 56 slug and displaced same. 100 Flow checked well.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	14:50	16:45	115	2317	5 CIRCULATE AND CONDITION MUD	Installed sponge ball in string. Connected TD, positioned string at 2317 m. Circulated 1 B/U with 2500 [pm/65 bar and 40 rpm/6 kNm. Moved string 5 m during circulation. Circulated 100 until deep most on chiefs.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	14:45	14:50	115 5	2340	6,08 POOH CH reduced speed	100 until clean mud on shaker. 100 POOH from 2407 m to 2340 m.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	14:40 14:35	14:45 14:40	5 5	2407 2416	6,31 L/D DRILLSTRING 6.08 POOH CH reduced speed	100 Broke out and laid down sgl 5 7/8 DP. 100 POOH from 2500 m to 2416 m. Pulled dry pipe.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	14:20	14:35	15	2500	13 RIG UP AND DOWN CEMENT EQUIPMENT	100 POOH from 2500 m to 2416 m. Pulled dry pipe. 100 Closed to torque valve, disconnected cement hose. Racked back cement stand. Pumped 124 m 3 1,55 S spacer. Pumped 17,7 m 3 1,93 S cement slurry. Displaced	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	13:10	14:20	70	2517	13,02 PUMP CMT	100 cement with 1,38 SG OBM using MPs , 1457 strokes. R/B one std and install cmt std. Connected cement hose to cement stand. Pressure test line	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	12:25 12:00	13:10 12:25	45 25	2517 2518	13 RIG UP AND DOWN CEMENT EQUIPMENT 5 CIRCULATE AND CONDITION MUD	100 up to 100 bar. Lined up for pump for pumping spacer. 100 Circulated 1 B/U with 2500 lpm/ 68 bar prior to cement job.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	11:00	12:00	60	2518	5 CIRCULATE AND CONDITION MUD	Circulated 1 B/U with 2500 Ipm/ 68 bar prior to cement job. Performed prejobmeeting prior 100 to cement job. Made up 10, positioned string at setting depth 2522 m. Broke circulation to 700 Ipm/15	35/11-B-11 HTS
						Make up 112, positionined string at setting depth 25.22 m. Broke orcusation to July peny 15 bar, carefully resignocated string at setting depth 25.23 m bottom plug for 5 min. Sat EESV plug according to Halliburton procedure. Pulled free of plug with 35 ton OP. Tagged plug	
1-mar-19 Deepsea Atlantic	10:05	11:00	55	2523	12,88 SET/RELASE MECH PLUGS	100 with 5 ton. Pulled up 5 m. 100 RiH from 2425 m to 2500 m on 5 7/8 hwdp.	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	10:00 09:50	10:05 10:00	5 10	2500 2425	6,07 RIH CH Reduced speed 6,3 P/U DRILLSTRING	100 Picked up and made up 1 sgl 5 7/8 DP for space out.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	09:15	09:50	35	2416	6,07 RIH CH Reduced speed	100 RIH from 2026 m to 2416 m.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	06:30	09:15	165	2026	41,2 WAIT ON INSTRUCTIONS	Waited for interpretation of CBL. Meanwhile general maintenance on drilfloor equipment. 97 Pressure tested stand pipe to 20/345 bar for 5/10 min. Changed finger on fingerboard.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	03:15	06:30	195	2026	6,07 RIH CH Reduced speed	100 RIH with 13 3/8" EZSV plug on 5 7/8" DP T/2125m MD. Compensated through BOP.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	03:00 02:45	03:15 03:00	15 15	0	6,33 CHANGE HANDLING EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Installed auto doper. Removed shackle sub from elevator. Installed autoslips in rotary. 100 Performed debrief after WL and prejob meeting prior to RIH with EZSV plug.	35/11-B-11 HTS 35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	01:55	02:45	50	0	11,02 RIG UP OR DOWN FOR WIRELINE	100 Rig down and L/D WL toolstring to RCWM.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic 1-mar-19 Deepsea Atlantic	01:40 00:00	01:55 01:40	15 100	100 100	25,3 PREJOBMEETING - BRIEF/DEBRIEF 11,03 WL OPERATIONS	100 Prejob meeting before handle WL toolstring with involved personnel. 100 POOH with WL toolstring T/100m.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic	17:15	00:00	405	9999	11,01 WIRE LINE LOGGING	RIH with logging string to 100 m, flagged cable and activated compensator. Continued RIH 97 and performed wireline log 14"casing for formation bonding.	35/11-8-11 HTS
0-mar-19 Deepsea Atlantic	15:30	17:15	105	0	11,02 RIG UP OR DOWN FOR WIRELINE	Rigged up for wireline according to schlumberger and odfjell procedure. Picked up and made 97 up toolstring.	
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	15:15 15:00	15:30 15:15	15 15	0	25,3 PREIOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Prejobmeeting for wireline. 100 Cleaned and cleared driiffoor.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic	13:05	15:00	115	0	6,11 LAY DOWN BHA	POOH with BHA on 5 7/8 HWDP. Racked back magnet and jar. Broke out and laid down 100 scrap/junk mill to RCWM. Baker inspected same.	35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	12:40 12:25	13:05 12:40	25 15	417 970	6,01 POOH CH 6,41 FLOW CHECK	100 POOH from 970 m to 417 m. 100 Flow checked well prior to pull HWDP and BHA through BOP.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	12:00 11:30	12:25 12:00	25 30	970 1450	6,01 POOH CH 6,01 POOH CH	100 POOH from 1450 m to 970 m. 100 POOH 2412 m to 1450 m. Had to calibrate HT several times during trip out. Calibrated Aux HR and HT. Meanwhile rearranged stands in derrick due to one std placed	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	11:00	11:30	30	2009	7,01 PLANNED MAINTENANCE	97 outside lower finger. R/B stand correctly and closed latch manually.	35/11-B-11 HTS
0-mar-19 Deepsea Atlantic	10:35 10:25	11:00 10:35	25 10	2009 2412	6,01 POOH CH 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 POOH from 2412 m to 2009 m. 100 Prejobmeeting for POOH. Meanwhile changed to aux HR.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	10:20	10:25 10:20	5 25	2412 2560	6,01 POOH CH 6,04 PUMP SLUG	100 POOH from 2560 m to 2412 m. 100 Pumped 6,0 m3 with 1,70 sg slug.	35/11-B-11 HTS 35/11-B-11 HTS
3-mar-19 Deepsea Atlantic	09:45	09:55	10	2560	6,41 FLOW CHECK	100 Pumped 6,0 ms with 1,70 sg stug. 100 Flow checked well, monitoring on TT. Installed wiper and plate.	35/11-B-11 HTS
						Lined up for displacement. Displaced well from 1,05 sg brine to 1,38 sg OBM with 4000 lpm	
0-mar-19 Deepsea Atlantic	07:20	09:45	145	2560	5,02 DISPLACE WELL/RISER	100 according to plan. Tagged top cut at 2561 m with 5 ton while line up for displacing. Connected TD. Filled pipe and broke circulation with 1,05 5G brine. Up/Down wt 158T/118T.	35/11-B-11 HTS
3-mar-19 Deepsea Atlantic	06:10	07:20	70	2550	5 CIRCULATE AND CONDITION MUD	100 Established circulation to max 3500 LPM - 85 BAR. RIH with 14" clean our BHA on 57/8" DP from 926m to 2550m. Reduced speed due to	35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	05:00 04:00	05:10 05:00	70 60	2550 926	6,07 RIH CH Reduced speed 6 RIH CH	100 possible oval casing below 16" csg shee. 100 RIH with 14" clean out 8HA on 5 7/8" DP from 408m to 926m. RIH with 14" clean out 8HA on 5 7/8" HUNDP from 37m to 408m. Compensated through	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	03:00	04:00	60 15	408 37	6,82 RIH with BHA 6,1 MAKE UP BHA	RIH with 14" clean out BHA on 5 7/8" HWDP from 37m to 408m. Compensated through 100 BOP. 100 P/U and M/U Junk mill/scrape assy and magnet/jar assy. RIH with same.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic	02:45	02:45	15	0	25.3 PREJOBMEETING - BRIEF/DEBRIEF	Performed pre job meeting with involved personnel prior to M/U and RIH with 14" clean out 100 BHA.	35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	02:15 02:10	02:30 02:15	15	0	38,01 CLEAN AND CLEAR RIGFLOOR 6,11 LAY DOWN BHA	100 Clean and cleared rigfloor. 100 L/D MUT to catwalk. R/B wash stand to derrick.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic	01:45	02:15	25	52	6,83 POOH with BHA	100 L/D MOLT to catewark. Mys wash stand to perriox. POOH with wash stand and MUT on 5 1/2" HWDP from 430m to 52m. Reduced speed due to 100 fullbore tool in riser.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic	01:30	01:45	15	430	12,13 SEAL ASSY / WEAR BUSHING	100 Sat WB according to Aker procedure.	35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	01:15	01:30	15	383	5,06 JET AROUND WELLHEAD 6,82 RIH with BHA	100 Connected TD and washed WH area prior to install 13 3/8" WB with 2500 LPM - 21 BAR. RIH with wash stand and MUT from S2m to 383m. Reduced speed due to fullbore tool in 100 riser.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 0-mar-19 Deepsea Atlantic	00:40	01:15	35	383	6,82 RIH WIth BHA 6,1 MAKE UP BHA	100 riser. P/U and RIH with wash stand from derrick. P/U and RIH with MUT and preinnstalled 13 3/8* 100 Wear Bushing.	35/11-B-11 HTS 35/11-B-11 HTS
0-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	00:00 23:45	00:10 00:00	10 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 12,12 RIG DOWN CASING/LINER EQUIPMENT	100 Performed prejob meeting prior to RIH with wash stand and MUT. 100 Rigged down casing equipment.	35/11-B-11 HTS 35/11-B-11 HTS
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	23:30 23:15	23:45 23:30	15 15	0	25,22 DROP's Inspection 38,01 CLEAN AND CLEAR RIGFLOOR	100 Performed DROPS on TD and handling equipment. Greased TD. 100 Clean and clear driffloor.	35/11-B-11 HTS 35/11-B-11 HTS
9-mar-19 Deepsea Atlantic	22:45	23:15	15 30	0	25.3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrief after POOH with 10 3/4" csg	35/11-B-11 HTS
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	22:40 19:15	22:45 22:40	5 205	6	6,31 L/D DRILLSTRING 12,05 PULL CASING IN CASED HOLE	100 L/D 10 3/4" sgl with out (6,5m) 100 POOH with 10 3/4" CSG from 2100 m to 6m and racked back stands in derrick.	35/11-B-11 HTS 35/11-B-11 HTS
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	19:00 18:20	19:15 19:00	15 40	2100 2100	25,3 PREJOBMEETING - BRIEF/DEBRIEF 12,05 PULL CASING IN CASED HOLE	100 Performed projob meeting with nightshift prior to PDOH with 10 3/4" csg. 100 PDOH with 10 3/4" CSG from 2170 m to 2100m and racked back stands in derrick.	35/11-B-11 HTS 35/11-B-11 HTS
9-mar-19 Deepsea Atlantic	17:30	18:20	50	2170	12,05 PULL CASING IN CASED HOLE 12,05 PULL CASING IN CASED HOLE	Broke out and laid down 10 3/4 hanger with 2 pup joints, 1 sgl joint and 2 pup joints to 100 RCWM. Not able to rack in derrick.	35/11-B-11 HTS
	15:50	17:30	100	2190	12,11 RIG UP CASING/LINER EQUIPMENT	Changed to 10 3/4 handling equipment. Changed to BX-3 elevator. Installed 10 3/4" CSG 100 EMS. Installed 10 3/4 CSG tons	35/11-B-11 HTS
9-mar-19 Deepsea Atlantic						POOH with 10 3/4 CSG on 5 7/8 HWDP. Broke out and laid down sgl 5 7/8 hwdp, bumpersub	
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	14:20	15:50	90	2190	12,05 PULL CASING IN CASED HOLE	and 5 7/8 sgl. Installe 10 3/4" CSG slips on pup joint. Released spear according to baker 100 instruction. Laid down spear to RCWM. Baker inspected same.	35/11-8-11 HTS

09-mar-19 Deepsea Atlantic	12:00	13:50	110	2550	12.05 PULL CASING INCASED HOLE	Established circulation to 1000 (pm/ 8 bar. Attempted to work hanger passed area i 80°/ UM+ with 5 4° bits on 0°, 25 to 80°. 25 to 10°. 20° bits noticed to figure 3 to 20° bits on 10°. 80° bits on 10° bits on	35/11-8-11 HTS
						PCOH compensated with hanger in 80P. Pulled up 11 m. took 15 30 ton weight in top 80P/NJPA, attempted to work hanger passed area. No ga. Moved rig in several positions, with try hing to work hanger passed area is 10PU/NJP with 5-20 too 10, 255 too 275 ton hookload. No ga. Closed LPP and tried to centritise Hanger/CSG. Continued to work hanger passed area. No ga. Moved rig in several position, while trying to work hanger passed area.	
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	10:45 10:35	12:00 10:45		2550 2561	12,05 PULL CASING IN CASED HOLE 6,41 FLOW CHECK	100 i BOP/LAP with 5-20 ton OP, 255 ton-275 ton hookload. 100 i Howhecked well i. Made up 10. Took up/down weight 93/92 ton. Compensated and landed outv stop sub with 5 ton. Engaged spear according to Baker instruction. Pulled free 10 3/4 CSG with 240 t	35/11-B-11 HTS 35/11-B-11 HTS
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	10:10	10:35		390	12,05 PULL CASING IN CASED HOLE 6,82 RIH with BHA	100 hookload. Pulled up 2 m.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	09:40	10:10	55	367	6,1 MAKE UP BHA	100 RiH with spear assy on 5 7/8 HWDP to 367 m. 100 Made up spear assy according to Baker, 1 sgl 5 7/8 DP, bumper sub and 1 sgl 5 7/8 hwdp.	35/11-B-11 HTS
9-mar-19 Deepsea Atlantic	07:45	08:45	60	0	12,11 RIG UP CASING/LINER EQUIPMENT	Rigged up for lifting 10 3/4" CSG tong with HR from RCWIM to frame in main. Lifted CSG tong 100 from RCWIM to frame in main.	35/11-B-11 HTS
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	07:30 07:15	07:45 07:30	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Prejobmeeting for lifting 10 3/4 CSG tong from RCWM to main and p/u and rih with spear. 100 Cleaned and cleared driffloor.	35/11-B-11 HTS 35/11-B-11 HTS
9-mar-19 Deepsea Atlantic	06:45	07:15	30	0	6,11 LAY DOWN BHA	100 POOH with MPT/Seal Assy and Pack Off Assy and L/D to catwalk.	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	05:20 05:05	06:45 05:20	85 15	63 360	6,83 POOH with BHA 6,74 COMPENSATE THROUGH BOP	100 POOH with BHA on 5 7/8"HWDP from 360m to 63m. 100 Compensate BHA through BOP from 434m to 360m	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	04:55 04:35	05:05 04:55		434 434	6,41 FLOW CHECK 5 CIRCULATE AND CONDITION MUD	100 Flowcheck 100 Cross circulated down kill/choke line with 1020(pm/15bar. Open annular.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	04:20	04:35	15	434	6,41 FLOW CHECK 12.13 SEAL ASSY / WEAR BUSHING	100 Flowcheck against closed annular and choke. Started to circulate with constant 8HP with 370(pm/31bar STP/20bar kill pressure. Increased in steps to 1020(pm/37bar 23bar kill pressure 0,1% gas and 6ppm H2S. Circulated until 100 decrease trend in gas readings 3465STK.	35/11-B-11 HTS 35/11-B-11 HTS
						Tested grack off within 1 page spagnet TI. Dropped Balen 1 3/8" ball. Bit to 2 mi above WH and Good lower annotar and reduced pressure to \$60951, 05000 speeding and 85000 downweight. Opped annotar and reduced pressure to \$60951, 05000 speeding and 85000 downweight. Opped annotar and reduced pressure to surface annotar and reduced pressure to surface. The surface annotar with cut with 5000 to which the surface of pressure and sold sold reduced which are suffaced annotar with cut with cut with cut with 5000 to which the surface annotation of the surface annota	35/11-B-11 HTS
9-mar-19 Deepsea Atlantic 9-mar-19 Deepsea Atlantic	01:15 00:00	02:30 01:15		436 375	12,13 SEAL ASSY / WEAR BUSHING 6,82 RIH with BHA	100 RIH with BHA from surface to top BOP @370m on 5 7/8" HWDP.	35/11-B-11 HT5
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	23:30 23:15	00:00 23:30	30 15	10	6,82 RIH with BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	P/U and M/U BH swab cup BHA T/OP std. 100 M/U Aker MPT to 5 7/8" HWDP. 100 Debrief after handling WB and prejob meeting before pull seal assy.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	22:50	23:15	25	0	6,11 LAY DOWN BHA	100 POOH with MUT. Secured WB to same and L/D to catwalk. R/B wash stand to derrick.	35/11-B-11 HTS
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	22:05 21:50	22:50 22:05	45	58 409	6,83 PODH with BHA 6,22 WASH DOWN	100 POOH with MUT/10 3/4" WB on 5 7/8" HWDP T/S/8m. 100 Connected TD/spaced out string and washed WH area with 2500lpm/18bar. Recorded Up weight 91ton and Down weight 90ton. Activated compensator and landed MUT in WH with Titlon WIDR.	35/11-B-11 HTS 35/11-B-11 HTS
8-mar-19 Deepsea Atlantic	21:35	21:50		430	12,13 SEAL ASSY / WEAR BUSHING	100 Releaced WB with 30ton OP. Pulled above BOP with MUT/WB.	35/11-B-11 HTS 35/11-B-11 HTS
3-mar-19 Deepsea Atlantic 3-mar-19 Deepsea Atlantic	21:15 20:40	21:35 21:15		409 372	6,22 WASH DOWN 6,82 RIH with BHA	100 Connected TD to string and washed WH area with 2500 pm/20bar. 100 L/D dbl and RIH with jet sub/MUT on 5 7/8" HWDP T/372m.	35/11-B-11 HTS 35/11-B-11 HTS
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	20:00 19:30	20:40 20:00	40 30	58	6,1 MAKE UP BHA 25,22 DROP's Inspection	M/U MUT to wash stand according to Aker rep. instructions. Removed innerbowls and RIH 100 with let sub/MUT. Installed bowls and autoslips RKB. 100 Drops inspection and secure hydraulic hose on TD.	35/11-B-11 HTS 35/11-B-11 HTS
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	19:15 19:00	19:30 19:15	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	Projob meeting before retrieve 10 3/4" WB with involved personnel. 100 Meanwhile pressuretest auto/manual KC on T0 to 20/345bar for 5/10min from omt unit. 100 Cleaned and cleared driff floor. POOH with 10 3/4 cut assy on 5 7/8 HWDP. Broke out and laid down 10 3/4 cut assy, Baker	35/11-B-11 HTS 35/11-B-11 HTS
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	18:05 17:40	19:00 18:05	55 25	0 161	6,11 LAY DOWN BHA 6,01 POOH CH	100 chacked and cleaned assy prior to by down same. 100 POOH from 612 to 161 m. Compensated through BOP.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	17:30	17:40	10	612	6,41 FLOW CHECK	100 Flow checked well prior to pull BHA through BOP.	35/11-B-11 HTS
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	17:25 16:20	17:30 17:25	65	612 612	15,04 KICK DRILL, CHOKE DRILL 6,01 POOH CH	100 Performed kick drill with crew 100 POOH from 1557 m to 612 m.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic I-mar-19 Deepsea Atlantic	16:00 15:40	16:20		1557	6,41 FLOW CHECK	100 Flow checked well. Oil. Closed well LIAP. Still slowly increase in TT 1. Changed to TT 2. TT 2 stabil . No pressure 100 observed on chock. Opened LIAP.	35/11-B-11 HTS 35/11-B-11 HTS
3-mar-19 Deepsea Atlantic	15:10	15:40	30 1	1557	6,41 FLOW CHECK	100 Flow checked well . Trip tank increased slowly 300 I/30 min.	35/11-B-11 HTS 35/11-B-11 HTS
3-mar-19 Deepsea Atlantic 3-mar-19 Deepsea Atlantic	14:10 13:50	15:10 14:10	20 2	1557 2561	6,01 POOH CH 6,04 PUMP SLUG	100 POOH from 2547 m to 1557 m. Observed gain in trip diff during POOH. 100 Pumped 7 m3 slug and displaced same.	35/11-B-11 HTS
3-mar-19 Deepsea Atlantic	13:40	13:50	10 2	2561	6,41 FLOW CHECK	100 Flow checked well . Ok	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	13:30	13:40	10	2561	12,3 CUT CASING	Cut 10 3/4" CSG according to baker instruction at 2561 m. 100 rpm/15 kNm, 1400 lpm/44 100 bar after 2 min observed pressure drop to 27 bar. Verified cut according to Baker instruction.	35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	12:45	13:30		2561	5 CIRCULATE AND CONDITION MUD	Connected TD and posistioned string at 2561 cutter depht. Filled pipe and broke circulation 100 carefully. Took referance pressure 1400 (pm/44 bar.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic -mar-19 Deepsea Atlantic	12:00 10:45	12:45 12:00	45 75 2	2548 2000	6 RIH CH 6 RIH CH	100 RIH from 2000 m to 2548 m. 100 RIH from 1000 m to 2000 m.	35/11-B-11 HTS 35/11-B-11 HTS
I-mar-19 Deepsea Atlantic	10:15	10:45		1000	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Debrif after RIH 1000 m , meanwhile filled pipe unconnected according to DOP. Up/down 100 weight 102/95 ton.	35/11-B-11 HT5
3-mar-19 Deepsea Atlantic	09:30 09:20	10:15 09:30		1000 390	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 RHH from 350 m to 1000 m on 5 7/8 DP. 100 Compensated through BDP. 100 RHH from 161 m to 350 m on 5 7/8 DP.	35/11-B-11 HTS 35/11-B-11 HTS
3-mar-19 Deepsea Atlantic			10	350			
8-mar-19 Deepsea Atlantic	09:10	09:20	10	161	6 RIH CH 6 1 MAKE LIP RHA	100 RIH from 161 m to 350 m on 5 7/8 DP.	35/11-B-11 HTS
3-mar-19 Deepsea Atlantic 3-mar-19 Deepsea Atlantic 3-mar-19 Deepsea Atlantic	09:10 08:55 08:40	09:20 09:10 08:55	10 15 15	161 13	6 RIH CH 6,1 MAKE UP BHA 6,33 CHANGE HANDLING EQUIPMENT	100 RH on 5 7/8 hwdp. 100 Changed to 5 7/8 auto slips and installed auto pipedoper.	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	09:10 08:55 08:40 07:45 07:30	09:20 09:10 08:55 08:40 07:45	10 15 15 55 15	161	6 RIH CH 6.1 MAKE UP BHA 6,33 CHANGE HANDLING EQUIPMENT 6,1 MAKE UP BHA 25,3 PERJOBMEETING - BRIEF/DEBRIEF	100. Rith on 5 7/8 hwdp. 100 Changed to 5 7/8 auto dijps and installed auto pipedoper. 100 Picked up cutting asoy. Made up TD and tested 10 3/4 cutter according to Baker. 100 Prejschmereling for RHH with 10 3/4 "Cutting asoy.	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	09:10 08:55 08:40 07:45	09:20 09:10 08:55 08:40	10 15 15 55	161 13 13	6 RIH CH 6,1 MAKE UP BHA 6,33 CHANGE HANDLING EQUIPMENT 6,1 MAKE UP BHA 25,3 PREJORMETING - BRIEF/DERIEF 38.0 CLEAN AND CLEAR RIGHLOOR	100. RH on 5 7/8 hwdp. 100 Changed to 5 7/8 auto slips and installed auto pipsedoper. 100 Picked up cutting asoy. Made up TD and tested 10 3/4 cutter according to Baker. 100 Prejobeneeting for RH with 10 3/4" cutting asoy. 100 Cleaned and desard drifficor.	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	09:10 08:55 08:40 07:45 07:30 07:00 06:50	09:20 09:10 08:55 08:40 07:45 07:30 07:00	10 15 15 55 15 30 10	161 13 13 0 0 0	6 RINCH 6,1 MAKE UP BHA 6,3 CHANGE HANDLING EQUIPMENT 6,1 MAKE UP BHA 15,3 PREJORMETING - BREF/DEBRIFF 38,0 LEAN AND LEAR BREF/DEBRIFF 38,0 LEAN AND LEAR BREF/DEBRIFF 6,11 LAY DOWN BHA	100 Rives 5 7/8 hwol. 100 Change 15 7/8 wold of give and installed auto pipedoper. 100 Picked up carting says, Made up 10 and rested to 314 currer according to Baker. 100 Picked up carting says, Made up 10 and rested to 314 currer according to Baker. 101 Channel and Couled of Influer. 100 Channel and Couled of Influer. 101 Channel and Couled of Influer. 102 Channel and Couled of Influer. 103 Instructions. Rith to 2 holders of London September Courtlem gain periodecad. POCH with CTV accombly, UP.	35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS
8-ma-19 Deepsea Atlantic	09:10 08:55 08:40 07:45 07:30 07:00 06:50	09:20 09:10 08:55 08:40 07:45 07:30 07:00	10 15 15 55 15 30 10	161 13 13 0 0	6 RIH CH 6,1 MACE UB PHA 6,33 CHANGE HANDLING EQUIPMENT 6,1 MACE UB PHA 25,3 PREDBMEETING - BRIEF/DEBRIEF 8,00 LEAN AND CLEAR RIFFOROR 25,3 PREDBMEETING - BRIEF/DEBRIEF	 Siri Los S / 78 hwol; Chapter S / 78 hwol; Chapter S / 78 has been displayed and installed and an application. Chapter S / 78 has been displayed and so that a considering to Baker. Populamentaring for first with 10 S/4" contings of the control of the baker. Chapter and classed of dismon. Chapter and classed of dismon. Chapter and classed of dismon. Chapter and classed or dismon. Chapter and classed or dismon. Chapter and the chapter and chapter an	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
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8-mar-19 Deepsea Atlantic	0910 (095) (09:20 09:20	100 100 100 100 100 100 100 100 100 100	161 13 13 0 0 0 0 4 4517 5500 500 4 407 430 0 0 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0 0	6 BINCH 63 CAMPAGE BIOL 631 CAMPAGE BIOL 631 CAMPAGE BIOL 631 CAMPAGE BIOL 632 CAMPAGE BIOL 633 CAMPAGE BIOL 633 CAMPAGE BIOL 633 PRECIDENTETIOS SHEF/CREMET 631 LOY COWN BIA 641 FLOW CHECK 631 PROTH WITH BIA 643 FLOW CHECK 632 PROTH WITH BIA 643 FLOW CHECK 633 PRECIDENTETIOS SHEF/CREMET 634 FLOW CHECK 635 PRECIDENTETIOS SHEF/CREMET 636 FLOW CHECK 637 PRECIDENTETIOS 637 FLOW CHECK 637 PRECIDENTETIOS 638 FLOW CHECK 638	100 Ratios 1 / 20 Novel 1 (1997) 100 Ratios 1 (35/11-0-11 HTS

07-mar-19 Deepsea Atlantic	15:00	15:30	30	0	14,16 TELESCOPIC JOINT	Established guide wires in cooperation with ROV. Landed BOP, sat down 30 ton. Locked	11-8-11 HTS
7-mar-19 Deepsea Atlantic 7-mar-19 Deepsea Atlantic	14:00 13:30	15:00 14:00	60 30	383 373	14,3 LAND BOP 6,7 MOVE RIG TO/OFF WELL		11-B-11 HTS 11-B-11 HTS
-mar-19 Deepsea Atlantic	13:30	13:30	90	373	14,3 LAND BOP	100 Prepared Sheaves , umbilicals and POD wires for landing of BOP. 35/	11-B-11 HTS
						Installed STR according to procedure. Prepared Sheaves , umbilicals and POD wires for landing of BOP. At 10.00 hrs deballast rig to 23 m draft. Pressure tested kill/choke line to	
7-mar-19 Deepsea Atlantic 7-mar-19 Deepsea Atlantic	08:45	12:00 08:45	195 15	373 373	14,3 LAND BOP 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 20/345 bar. 35/ 100 Prejobmeeting prior to work with STR. 35/	11-8-11 HTS 11-8-11 HTS
7-mar-19 Deepsea Atlantic	08:10	08:30	20	373	14,31 HANDLE LANDING JOINT	100 Picked up and made up handling joint. 35/	11-B-11 HTS
7-mar-19 Deepsea Atlantic	07:30	08:10	40	363	14 NIPPLE UP B.O.P	Filled kill/choke/boost with SW. Pressure tested kill/Choke from cementer 5/10min	11-B-11 HTS
7-mar-19 Deepsea Atlantic 7-mar-19 Deepsea Atlantic	06:15 04:20	07:30 06:15	75 115	345 345	14,11 PRESSURE TEST K&C LINES 14,19 RUN BOP WITH SLICK RISER	100 20/34Sbar. Pressuretested Boostline 10min 100bar from Subsea. 35/ 100 RIS with BDP with ricer from 220m to 345m 35/	11-B-11 HTS 11-B-11 HTS
77-mar-19 Deepsea Atlantic	03:35	04:20	45	220	14.1 PREPARE & RIGGING IN MOONPOOL	100 Connected csg sling to riser for support for POD's. 35/	11-B-11 HTS
77-mar-19 Deepsea Atlantic	03:10	03:35	25	220	14,19 RUN BOP WITH SLICK RISER	Filled kill/choke/boost with SW. Pressured test Kill/Choke from cementer 5/10min	11-B-11 HTS
07-mar-19 Deepsea Atlantic	02:10	03:10	60	196	14.11 PRESSURE TEST K&C LINES	20/345bar. Pressuretested Boostline 10min 100bar from Subsea. Meanwhile skidded rig	11-B-11 HTS
77-mar-19 Deepsea Atlantic	01:20	02:10	50	196	14,19 RUN BOP WITH BUOYANG RISER	100 RIS with BOP with riser from 123m to 196m 35/	11-B-11 HTS
07-mar-19 Deepsea Atlantic 07-mar-19 Deepsea Atlantic	00:15	01:20 00:15	65 15	123	43,05 MAIN OPERATION IN OTHER WELL CENTER 43,05 MAIN OPERATION IN OTHER WELL CENTER		11-B-11 HTS 11-B-11 HTS
6-mar-19 Deepsea Atlantic	23:00	00:00	60	0	43,05 MAIN OPERATION IN OTHER WELL CENTER		11-B-11 HTS
O-mai-12 Despata Adams.	23.00	00.00			10,00 main or Exchange in Office Well-Clares	Main operation in aux. Secured BOP with OHG. Lifted BOP of BOP trolly. Removed BOP	11-0-11 1113
06-mar-19 Deepsea Atlantic	21:45	23:00	75	0	43.05 MAIN OPERATION IN OTHER WELL CENTER	trolly. Lowered BDP into UHG. Rigged up sheaves, umbilicals and POD wires for RIS with BDP. 100 RIS with BDP. 35/	11-B-11 HTS
						Main operation in aux. General maintenance on drilling equipment. Clean and clear in	
						Matin operation in aux central maintenance on orining equipment. Lean and calar in drilling areas. Remove remaining furture bumper but for loop aux TD. Climbers install cabel way in derrick. Schoop prepare for numing 80P. Changed standpipe valve 10. Meanwhile when Alar informed stabil test, prepared guide wires and mitblical in monopool for more main well to safe zone, released guide wires and pulled came to surface. Moved	
06-mar-19 Deepsea Atlantic	12:00	21:45	585	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 main well to safe zone.Performed prejobmeeting for run BOP. 35/	11-B-11 HTS
06-mar-19 Deepsea Atlantic 06-mar-19 Deepsea Atlantic	10:00	12:00 10:00	120 75	0	43,05 MAIN OPERATION IN OTHER WELL CENTER 14.12 PREPARE TO RUN BOP	100 Main operation in aux. General maintenance on drilling equipment. 35/ 100 Skid BOP to wellcenter and connect double 75' floration joints to BOP. 35/	11-B-11 HTS 11-B-11 HTS
06-mar-19 Deepsea Atlantic	07:00	08:45	105	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 Main operation in aux. General maintenance on drilling equipment. 35/	11-B-11 HT5
6-mar-19 Deepsea Atlantic	00:00	07:00	420	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 Main operation in aux. General maintenance on drilling equipment. 35/ Main operation in Aux well. Completed maintenance on main HR. Picked up and made up 2	11-B-11 HTS
5-mar-19 Deepsea Atlantic	20:00	00:00	240	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 riser joints. 35/	11-B-11 HTS
						Main operation in aux well. General maintenace in drilling areas and on drilling equipment. Continue to precuretest standagles manifold to 20/245 but for 5/10 mil cent cell belong valve - start to charge standagies valve of 100 with with drilling inventory. Change encoder on main are MR main. Dell inspections holes on torque-weemoch opinider aux and main. Work in derrick main with Visicota Modelfylist at vera 3. Climbers start enrowing dot structure for the central main with Visicota Modelfylist at vera 3. Climbers start enrowing dot structure for the central main with Visicota Modelfylist at vera 3. Climbers start enrowing dot structure for the central main vera start of the central main very start of the vera start of the central main very start of the very start of	
95-mar-19 Deepsea Atlantic	12:00	20:00	480	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 bumper for aux TD loop, Installed riserlift cylinder. 35/	/11-8-12 AH
						Main operation in aux well. General maintenace in drilling areas and on drilling equipment. Continue to pressuretest standpipe manifold to 20/345 bar for 5/10 min. Work with drilling	
Y 40 D	07.77	12.00			43.05 44410 0050475	inventory. Change encoder on main arm HR main. Check leakage on aux TD. Grease bolts on	44.0.43.41
05-mar-19 Deepsea Atlantic	07:00	12:00	300	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Main operation in aux well. General maintenace in drilling areas and on drilling equipment.	/11-B-12 AH
						IFS on HRs. Changed rollers on upper arm main HR and on tail arm aux HR. IFS on brakes on main DWA, DWB and Aux DW. Pressure test on 5 7/8 KC and IBOP to 20/345 bar for 5/10	
6-mar-19 Deepsea Atlantic	00:00	07:00	420	0	43,05 MAIN OPERATION IN OTHER WELL CENTER		/11-B-12 AH
						Main operation in aux. Performed general maintenace in drilling areas and on drilling equipments. Class and class. Performed pressure test of 867 to 20/95 fair on 10° and equipments. Class and class. Performed pressure test of 867 to 20/95 fair on 10° and 10° an	
04-mar-19 Deepsea Atlantic	12:00	00:00	720	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 pipehandling matrix on drilffoor. Checked guideheads and dragchains on HRs. 35/	/11-B-12 AH
						Main operation in aux. Performed general maintenace in drilling areas and on drilling equipments. Check manriders on drillfloor. Clean and clear. Performed pressure test of BOP	
M-mar-19 Deepsea Atlantic	07:00	12:00	300	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 to 20/345 bar on DP and 20/250 bar on 14" casing. 35/	/11-B-12 AH
						Main operation in aux. Performed general maintenace in drilling areas and on drilling equipments. Changed broke bolts on rails for HRs on drillfloor. Bectronics work on main	
4-mar-19 Deepsea Atlantic	00:00	07:00	420	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	DWs. Performed pressure test of BOP to 300 bar. Performed DROPS and greased Aux	/11-B-12 AH
	23.00		720		The state of the s		
G-mar-19 Deepsea Atlantic	12:00	00:00	720	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Main rig operation in aux wellcenter. Meanwhile general maintenance on TD main and IFS 100 routines. Prepare to pressuretest BOP in moonpool. Pressure tested BOP to 300 bar. 35/	/11-B-12 AH
B-mar-19 Deepsea Atlantic	11:45	12:00	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 14.17 RIG DOWN BOP RUNNING EQUIPMENT		/11-B-12 AH /11-B-12 AH
8-mar-19 Deepsea Atlantic 8-mar-19 Deepsea Atlantic	11:30 10:30	11:45 11:30	15 60	0	14,17 RIG DOWN BOP KONNING EQUIPMENT 14,1 PREPARE & RIGGING IN MOONPOOL		/11-B-12 AH /11-B-11 HTS
3-mar-19 Deepsea Atlantic	09:15	10:30	75	20	14,1 PREPARE & RIGGING IN MOONPOOL	Prepare and rigging in moonpool prior to land BOP on carrier. Land on carrier and disconnect	11-8-11 HTS
						Prepare underhull guide and orient BOP prior to pull BOP through solash zone. Pull BOP	
3-mar-19 Deepsea Atlantic	08:45	09:15	30	20	14,2 PULL BOP WITH SLICK RISER	100 through splash zone and secure BOP in subsea guide trolley guide. 9ull BOP on 75' slick joints from 127 m to 58 m. Trim rig and stop cranes to be able to pull	11-B-11 HTS
3-mar-19 Deepsea Atlantic	07:45	08:45	60	58	14,2 PULL BOP WITH SLICK RISER	100 through rotary due to rig movement. 35/	11-B-11 HTS
03-mar-19 Deepsea Atlantic 03-mar-19 Deepsea Atlantic	07:15 07:00	07:45 07:15	30 15	127 173	14,2 PULL BOP WITH BUOYANG RISER 25,3 PREJORMEETING - BRIEF/DEBRIEF	100 Held preighmeeting with dayshift prior to continue to pull BOP. 35/	11-B-11 HTS 11-B-11 HTS
03-mar-19 Deepsea Atlantic 03-mar-19 Deepsea Atlantic	04:35 04:15	07:00 04:35	145 20	173 333	14,2 PULL BOP WITH BUOYANG RISER 14,29 RUN/PULL RISER PUP'S	100 Pulled BOP. Broke out and laid down 75 ft riser joints. 35/	11-B-11 HTS 11-B-11 HTS
03-mar-19 Deepsea Atlantic	03:30	04:35	45	342	14,29 KUN/PULL RISER PUP S 14,16 TELESCOPIC JOINT	100 Pulled up Slip joint and landed in spider. Broke out and laid down Slip joint. 35/	11-B-11 HTS
3-mar-19 Deepsea Atlantic	03:00	03:30	30	360	14.31 HANDLE LANDING JOINT	Pulled up handlingjoint and landed in spider. Broke out and laid down handling joint to	11.8.11 HTS
3-mar-19 Deepsea Atlantic	00:00	03:00	180	372	14,1 PREPARE & RIGGING IN MOONPOOL	100 Splited STR/gooseneck assy according to procedure. 35/	11-B-11 HTS
12-mar-19 Deepsea Atlantic	19:15	00:00	285	372	14,1 PREPARE & RIGGING IN MOONPOOL	Prepared umbilicals, reels, sheaves and wires for pulling BOP out of sea. Splitted STR 100 according to procedure. 35/	11-B-11 HTS
02-mar-19 Deepsea Atlantic	19:00	19:15	15	372	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Rig up and prepare equipment and PODs in moonpool for pulling BOP. Start to ballast rig to	11-B-11 HT5
02-mar-19 Deepsea Atlantic	18:15	19:00	45	372	14,1 PREPARE & RIGGING IN MOONPOOL	100 25 m draft. 35/	11-B-11 HTS
02-mar-19 Deepsea Atlantic	18:00	18:15	15	372	6,7 MOVE RIG TO/OFF WELL	Move rig to safe zone. Meanwhile held prejobmeeting for preparing equipment in moonpool 100 for pulling BOP. 35/	11-B-11 HTS
						Orient and collaps innerbarrel with 10 ton down. Perform overpull test to 20 ton. Disconnect	11-B-11 HT5
12-mar-19 Deepsea Atlantic	17:30	18:00	30	372	14,4 DISC. BOP	P/U landing joint from RCW and connected same to slipjoint prior to run in and collapse	
02-mar-19 Deepsea Atlantic	17:00	17:30	30	0	14,31 HANDLE LANDING JOINT	100 innerbarel. Bleed down N-line pressure to 237 ton. 35/	11-B-11 HTS
2-mar-19 Deepsea Atlantic	16:45	17:00	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Held prejobmeeting prior to P/U and M/U landingjoint while waiting on deck for preparing 100 landingjoint. 35/	11-B-11 HTS
						Change handlingequipment to 6-5/8" inserts in elevator. P/U and install diverter RT.	
2-mar-19 Deepsea Atlantic	14:30	16:45	135	0	14,24 PULL ,LP-RISER /DIVERTER	100 Disconnect hoses from diverter. Pull diverter to surface and L/D same to RCW. 35/	11-B-11 HTS
						Rig up BOP handling equipment prior to pull BOP. Remove torquewrench. Install shackle sub. Remove masterbushing, split bushing and solid adapter ring. Install riserspider in RKB.	
2-mar-19 Deepsea Atlantic	13:20	14:30	70	0	14,15 PREPARE TO PULL BOP	100 Meanwhile displaced riser to seawather. 35/	11-B-11 HTS
2-mar-19 Deepsea Atlantic 2-mar-19 Deepsea Atlantic	13:00 12:45	13:20 13:00	20 15	0	14,15 PREPARE TO PULL BOP 25,22 DROP's Inspection	100 Perform brake test on DW main prior to pull BOP. Test ok - 907 ton available. 35/ 100 Preform DROPS check top drive. 35/	11-B-11 HTS 11-B-11 HTS
						Held prejobmeeting with crew prior to rig up for pulling BOP. Start to deballast rig to 23 m	
12-mar-19 Deepsea Atlantic 12-mar-19 Deepsea Atlantic	12:30 12:15	12:45 12:30	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear driffloor. 35/	11-B-11 HTS 11-B-11 HTS
02-mar-19 Deepsea Atlantic	12:00	12:15	15	0	6,11 LAY DOWN BHA		11-B-11 HTS
02-mar-19 Deepsea Atlantic	11:30	12:00	30	0	6,11 LAY DOWN BHA	100 POOH with GTV RT on 5-7/8" HWDP from 213 m to 0 m. L/ D GTV running tool to RCW. 35/	11-B-11 HTS
12-mar-19 Deepsea Atlantic	09:45	11:30	105	213	13.2 PRESSURE TEST OF CASING		11-B-11 HTS
			103			POOH with GTV RT on 5-7/8" HWDP from 520 m to 213 m. Compensate through BOP.	
2-mar-19 Deepsea Atlantic	09:15	09:45	30	213	6,11 LAY DOWN BHA	100 Meanwhile proform surface inetest prior to test 10.3/4" GTV pulg. Connect TD. Record upweight 90 km, odwaweight 90 km. Position string av 519 m bottom plug. Set plug according to Baker instructions. Move string downwards and rotate with 12 turns before setting, Bottom plug at 520,30 m. Perfrom overpull and set down weight in steps to 30 tone. Release from plug at 50,00 km and pull above plug. Record new upweight 96 fitton,	11-8-11 HTS
2-mar-19 Deepsea Atlantic	08:55	09:15	20	520	12,88 SET/RELASE MECH PLUGS		11-B-11 HTS
						RIH with 10-3/4" GTV plug on 5-7/8" HWDP from 20 m to 501 m and space out with 5-7/8"	
02-mar-19 Deepsea Atlantic	07:45	08:55	70	501	6,1 MAKE UP BHA	100 DP in BOP. Compensated trough BOP. Runningspeed 0.6 m/sec in casing. 35/	11-B-11 HTS
02-mar-19 Deepsea Atlantic 02-mar-19 Deepsea Atlantic	07:30 07:15	07:45 07:30	15 15	20 0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Hold debrief for L/D F7SV RT. Hold preinhmeeting prior to P/LL10.3/4" GTV plug 35/	11-B-11 HTS 11-B-11 HTS
						POOH from 207 m on 5-7/8" HWDP with EZSV RT. Broke out XOS and laid down RT to	
02-mar-19 Deepsea Atlantic 02-mar-19 Deepsea Atlantic	06:30 06:20	07:15 06:30	45 10	0 207	6,11 LAY DOWN BHA 6,3 P/U DRILLSTRING	100 P/U and made up double 5 7/8 hwdp from RCWM. 35/	11-B-11 HTS 11-B-11 HTS
02-mar-19 Deepsea Atlantic	06:05 05:55	06:20 06:05	15 10	207 416	6,01 POOH CH 6.3 P/U DRILLSTRING	100 Picked up and made up double 5.7/8 DP from RCWM on stand 6. 35/	11-B-11 HTS
						POOH with RT from 2583 m to 416 m. Cleaned and doped pipe while POOH. Training with	
	02:45 02:15	05:55 02:45	190 30	416 2583	6,01 POOH CH 6,04 PUMP SLUG	100 new personel while tripping. 35/	11-B-11 HTS 11-B-11 HTS
		02:40	su	±303	v,u4 PUMPSLUS	100 Pumped 7 m3 with 1,20 SG slug and displaced same. 35/ Connected TD, filled string and took up/down weight 151/114 ton. Meanwhile discussed	**-0-11 UI2
02-mar-19 Deepsea Atlantic 02-mar-19 Deepsea Atlantic 02-mar-19 Deepsea Atlantic	00:45	02:15	90	2590	12,88 SET/RELASE MECH PLUGS	setting procedure with Hallburton onshore support. Positioned string at setting depth 2590 m, broke circulation to 800 jun and carefully recipiocated string across setting area for 5 min. Sat 10 1/4* EZSV julga according to Hallburton procedure at 2590,5 m bottom plug. Verified 8T five and pulled up 3 m and restated string 30 pmp/l min according to Hallburton	11-8-11 HTS

01-mar-19 Deepsea Atlantic 01-mar-19 Deepsea Atlantic 01-mar-19 Deepsea Atlantic			190				35/11-B-11 HTS
01-mar-19 Deepsea Atlantic	20:50 20:40	00:00 20:50	10	2195 416	6,07 RIH CH Reduced speed 6,31 L/D DRILLSTRING	100 RIH with E25V plug from 416 m to 2195 m. 100 L/D double on stand 6.	35/11-B-11 HTS
	20:40 20:10	20:40	30	416	6,07 RIH CH Reduced speed	100 RIH on 5 7/8 DP from 207 m to 416 m. Compensated through BOP.	35/11-B-11 HTS
01-mar-19 Deepsea Atlantic 01-mar-19 Deepsea Atlantic	20:00 19:15	20:10	10 45	207	6,31 L/D DRILLSTRING 6,1 MAKE UP BHA	100 L/D double on last stand 5.7/8 hwdp to RCWM. 100 RIH with 10.3/4 EZSV plug on 5.7/8 HWDP to 207 m.	35/11-B-11 HTS 35/11-B-11 HTS
11-mar-19 Deepsea Atlantic	19:00	19:15	15	207	25.3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to RIH with 10 3/4 EZSV plug.	35/11-B-11 HTS
01-mar-19 Deepsea Atlantic	18:45	19:00	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear drillfloor.	35/11-B-11 HTS
1-mar-19 Deepsea Atlantic	18:15	18:45	30	0	6,11 LAY DOWN BHA	100 B/O and L/D 9-3/8" Junk mill BHA to RCWM as three assys.	35/11-B-11 HTS
						POOH in CH with 9-3/8" Junk mill on 5-7/8" HWDP from 395 m to 28 m. Compensate	
-mar-19 Deepsea Atlantic	17:30	18:15	45	28	6,11 LAY DOWN BHA	100 through BDP. Meanwhile held prejobmeeting for L/D 9-3/8" Junk mill BHA. POOH in CH with 9-3/8" Junk mill on 5-7/8" DP from 780 m to 395 m on elevator. Train new	35/11-B-11 HTS
L-mar-19 Deepsea Atlantic	17:10	17:30	20	395	6,01 POOH CH	100 personel during trip.	35/11-B-11 HT5
-mar-19 Deepsea Atlantic	16:50	17:30 17:10	20	780	6,41 FLOW CHECK	100 Flow check well prior to pull BHA through BOP. Flow check ok. well static.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	15:45	16:50	65	780	6.01 POOH CH	POOH in CH with 9-3/8" Junk mill on 5-7/8" DP from 1947 m to 780 m on elevator. Train 100 new personel during trip. Use mudbucket from 1947 m to 1750 m.	35/11-B-11 HT5
mar-19 Deepsea Abambic	15.45	10.30	- 63	780	6,01 FOORCH	POOH in CH with 9-3/8" Junk mill on 5-7/8" DP from 2580 m to 1947 m on elevator. Train	33/11-B-11 H13
-mar-19 Deepsea Atlantic	14:45	15:45	60	1947	6,01 POOH CH	100 new personel during trip. Pull wet from 1947 m.	35/11-B-11 HTS
	14:30	14:45	15	2580	6,04 PUMP SLUG	Stop boosting. Pump 4.5 m3 1,20 sg slug and displace surface lines. No return - pipe empty 100 (lust filled at 2000 m and float in string), Start boosting. Connect TD. Activate AHC. Scrape setting area for 10.3/4" EZSV plug three times from 2594	35/11-B-11 HT5
mar-19 Deepsea Atlantic	14:30	14:45	15	2580	6,04 PUMPSLUG	Connect TD. Activate AHC. Scrape setting area for 10-3/4" EZSV plug three times from 2594	35/11-B-11 HIS
mar-19 Deepsea Atlantic	14:15	14:30	15	2594	5,01 CIRCULATE HOLE CLEAN	100 m to 2580 m with 60 rpm - 11 kNm. No flow.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	13:55	14:15	20 25	2594 2895	6,08 POOH CH reduced speed 6,41 FLOW CHECK	100 POOH in CH with 9-3/8" Junk mill on 5-7/8" DP from 2895 m to 2594 on elevator.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	13:30	13:55	D	2895	6,41 HOW CHECK	100 Flowcheck well on active system for 10 min before PODH. Well static. RIH in CH with 9-3/8" Junk mill from 2556 m to 2895 on elevator. No obstructions observed	35/11-B-11 HTS
mar-19 Deepsea Atlantic	13:00	13:30	30	2895	6,07 RIH CH Reduced speed	100 in interval.	35/11-B-11 HTS
	12:00	13:00				Connect TD on every stand. Work string down with 20 rpm - 8 kNm from 2366 m to 2556 m	
mar-19 Deepsea Atlantic	12:00	13:00	60	2556	6,22 WASH DOWN	100 No obstructions observed in interval.	35/11-B-11 HTS
						Activate AHC. Pull up 10 m to verify free up. Connect string to TD. Set 20 bar on closed IBOP	
						and rotate with 20 rpm - 8 kNm. Rotation weight 127 ton. Work string past obstructions at	
-mar-19 Deepsea Atlantic	10:50	12:00	70	2366	6,22 WASH DOWN	100 2275 m, 2300 m and 2315 m. Connect TD on every stand. RIH CH with reduced speed with 9-3/8" Junk mill on 5-7/8" DP from 2040 to 2275. Set down	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	10:30	10:50	20	2275	6.07 RIH CH Reduced speed	100 weight 10 ton.	35/11-B-11 HTS
							it
-mar-19 Deepsea Atlantic	10:00	10:30	30	2040	6,4 FILL PIPE	100 134 ton, downweight 109 ton. RIH CH with reduced speed with 9-3/8" Junk mill on 5-7/8" DP from 396 m to 2040 m. Train	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	07:45	10:00	135	2040	6,07 RIH CH Reduced speed	NH CH with reduced speed with 9-3/8" Junk mill on 5-7/8" DP from 396 m to 2040 m. Irain 100 new personel during trip.	35/11-B-11 HTS
				22.0	· ·		
mar-19 Deepsea Atlantic	07:10	07:45	35	396	6,11 LAY DOWN BHA	100 P/U double 5-7/8" DP from riser. Inspect and L/D BOP wash tool and magnet assy to RCWM 100 POOH with junk mill from 781 m to 410m until BOP wash tool on drillfloor.	35/11-B-11 HTS
-mar-19 Deepsea Atlantic	06:45	07:10	25	410	6,01 POOH CH	Connected TD to string. Took readings up/down weight 106/103 ton and 10 rpm/1 kNm. Piaced jetting tool in lower part of 80P according to Baker. Boosted kill/chokeline with 3000 lpm/10 bar while recorderated string dowly up/down 3 passes in 80P and rostated with 10 rpm/1 kNm. Stopped puming and rostating. Established circulation through string to 3000 lpm/20 bar and reciprocated with 10 rpm up and down in 80 P2 passes. Stodeted frier with 10 passes.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	05:20	06:45	85	781	5,06 JET AROUND WELLHEAD	100 1000 lpm. Pumped total 150 m3 , observed little junk on shaker.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	04:45	05:20	35	770	6,07 RIH CH Reduced speed	RIH with junk mill assy from 428 m to 770 m on 5 7/8 DP. RIH carefully to BOP wash tool 100 above BOP.	35/11-B-11 HT5
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	04:30	04:45	35 15	428	6,31 L/D DRILLSTRING	100 Broke out and laid down double on first stand 5 7/8 DP.	35/11-B-11 HTS
						Picked up and made up Junk mill assy with jar according to plan. Continued RIH on 5 7/8	
mar-19 Deepsea Atlantic mar-19 Deepsea Atlantic	02:55 02:45	04:30 02:55	95 10	410	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 HWDP from 28 m to 398 m. Picked up and made up BOP wash assy. 100 Prejob meeting for RIH with Junk mill assy and BOP clean out assy.	35/11-B-11 HTS 35/11-B-11 HTS
mar-19 Deepsea Atlantic	02:45	02:45	30	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Cleaned and cleared driffloor. Meanwhile greased Travelling block and dolly.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	02:00	02:15	15	0	31,21 RIG DOWN TUBING	100 Rigged down 5 1/2" tubing equipment.	35/11-B-11 HTS
mar-19 Deepsea Atlantic	01:00	02:00	60	0	31,1 PULL TUBING	100 POOH with remaining cables/control lines approx 100 m.	35/11-B-11 HTS
						Continue to POOH with 5-1/2" tubing with 2 control lines from 26 m to 0 m. No cable clamp on stands while POOH. Boost riser on active system as triotanic Cut cable above and below	
						DHG. Secured cable prior to Break out and laid down 1 joint 5 1/2". Broke out and laid down	a .
mar-19 Deepsea Atlantic	00:00	01:00	60	0	31,1 PULL TUBING	100 5 1/2" joint and DHG with cut to RCWM.	35/11-B-11 HTS
8-feb-19 Deepsea Atlantic	20:45	00:00		26	31.1 PULLTUBING	Continue to POOH with 5-1/2" tubing with 2 control lines from 205 m to 26m. No cable	35/11.R.11 HTS
l-feb-19 Deepsea Atlantic	20:45	20:45	195 20	205	6.33 CHANGE HANDLING EQUIPMENT	100 clamps on stands while PODH. Boost riser on active system as triptank. 100 Not able to sit slips. Changed to new 5 1/2" tubing slips. Continue to PODH with 5-1/2" tubing with 2 control lines from 274 m to 205 m. No cable	35/11-B-11 HTS 35/11-B-11 HTS
						Continue to POOH with 5-1/2" tubing with 2 control lines from 274 m to 205 m. No cable	
-feb-19 Deepsea Atlantic	19:15 19:00	20:25	70 15	205 274	31,1 PULLTUBING	100 clamps on stands while POOH. Boost riser on active system as triptank. 100 Preiob meeting with new crew.	35/11-B-11 HTS 35/11-B-11 HTS
-feb-19 Deepsea Atlantic	19:00	19:15	15	2/4	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Continue to POOH with 5-1/2" tubing with 2 control lines from 398 m to 274 m. No cable	35/11-B-11 HI5
3-feb-19 Deepsea Atlantic	18:00	19:00	60	274	31,1 PULLTUBING	100 clamps on stands while POOH. Boost riser on active system as triptank.	35/11-B-11 HTS
						Continue to POOH two double 5-1/2" tubing with 2 control lines from 446 m to 398 m to	
-feb-19 Deepsea Atlantic	17:10	18:00	50	398	6,74 COMPENSATE THROUGH BOP	space out for pulling through BOP. Compensate gauge assy and cut tubing through BOP. No 100 cable clamps on stands while POOH. Boost riser on active system as triptank.	35/11-B-11 HTS
	220				2,112	Continue to POOH with 5-1/2" tubing with 2 control lines from 1797 m to 446 m. No cable	
3-feb-19 Deepsea Atlantic	12:00	17:10	310	446	31,1 PULLTUBING	Continue to The POOH with 5-1/2" tubing with 2 control into from 1797 m to 446 m. No cable 100 clamps on stands while POOH. Boost riser on active system as triptank.	35/11-B-11 HTS
8-feb-19 Deepsea Atlantic				1797	31,1 PULLTUBING	Continue to POOH with 5-1/2" tubing with 2 control lines from 2340 m to 1797 m. No cable 100 clamps on stands while POOH. Boost riser on active system as triptank.	35/11-B-11 HT5
s-teb-19 Deepsea Atlantic	00:00	12:00	720	1/9/	31,1 PULL TUBING	100 clamps on stands while POOH. Boost nier on active system as triptanic. POOH with 5½" tubing and 2 controllines from 2486m to 2340m. Use tugger and slings for	35/11-B-11 HI5
7-feb-19 Deepsea Atlantic	21:30	00:00	150	0	31,1 PULLTUBING	100 securing control lines on every connection.	35/11-B-11 HTS
7-feb-19 Deepsea Atlantic	20:45	21:30	45	2486	31,5 TERMINATING AND TESTING CONT LINES	100 Pull DHSV above RKB and cut controllines. Transfer same to aux well center, L/ D same. POOH with 5-1/2" tubing and 3 control lines from 2690m to 2486m. Cut DHSV CL on every	35/11-B-11 HT5
7-feb-19 Deepsea Atlantic	16:00	20:45	285	2486	31,1 PULL TUBING	100 STD. Pull 2 controllines on to drum.	35/11-B-11 HTS
7-feb-19 Deepsea Atlantic	15:30	16:00	30	2690	31,2 RIG UP TUBING	100 Cont. rig up equipment for cutting, securing and pulling controllines out of hole.	35/11-B-11 HTS
7-feb-19 Deepsea Atlantic	15:00	15:30	30	2690	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Handover between shifts. Held prejobmeeting prior to pull 5-1/2" tubing with control lines.	35/44 0 44 1/75
7-teb-19 Deepsea Atlantic	15:00	15:30	50	2690	25,3 PREJUBMILETING - BRIEF/DEBRIEF	L/D TH-R/T and P/U MRT tool from deck. Install MRT tool to TH. P/U 10m with TH and string	35/11-B-11 HI5
						install OWS hyudraulic 5%" slips. Rig up equipment for cutting, securing and pulling	
7-feb-19 Deepsea Atlantic	12:00	15:00	180	2690	6,33 CHANGE HANDLING EQUIPMENT	100 controllines safely out of hole.	35/11-B-11 HTS
7-feb-19 Deepsea Atlantic	11:15	12:00	45	2690	6,33 CHANGE HANDLING EQUIPMENT	100 P/U tubing hanger RT. Not able to install TH-R/T to TH.	35/11-B-11 HTS
						Disconnect SLS and lay down same to RCWM. Bleed of lines on tubing hanger. Meanwhile	
7-feb-19 Deepsea Atlantic	10:00	11:15	75	2690	6,33 CHANGE HANDLING EQUIPMENT	100 prepare swedge with kelly cock and OWS hydraulic autoslips for POOH with 5-1/2" tubing	
						POOH with tubinghanger and 51/5" tubing on 5 7/8"HWDP from 3059m to 2690m. Reduced	35/11-B-11 HTS
	07:45	10:00		2690	31,41 PULL TUBING ON LANDINGSTRING	100 speed due to diupylk clams, umbilical and wellcontroll precaution.	
	07:30			3059	25,3 PREJOBMEETING - BRIEF/DEBRIEF		35/11-B-11 HTS
		07:45	135 15			100 Prejob meeting prior to pull out with SLS and umibilical.	
feb-19 Deepsea Atlantic	07:15	07:30		3059	6,41 FLOW CHECK	100 Prejob meeting prior to pull out with SLS and umibilical. Perform flow check. Well static. Meanwhile remove rope between landing string and 100 umbilical.	35/11-B-11 HTS
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic		07:30	15	3059		100 Projob meeting prior to pull out with SLS and umibilical. Perform flow check: Well static. Meanwhile remove rope between landing string and 100 umbilical. Wait 10 min for annular element to retract POOH from 3070 m to 3059and perform new	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	07:05	07:30 07:15	15 15 10	3059 3070	31,41 PULL TUBING ON LANDINGSTRING	100 Projech meeting prior to pull out with SLS and umbillion. Perform flow check. Well static. Meanwhile remove rope between landing string and 100 umbilical. Wait 10 min for annular element to retract. POOH from 3070 m to 3059and perform new 100 flow check while production line in 114 are in upper annular.	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic		07:30	15	3059		100 Projob meeting prior to pull out with SLS and umibilical. Perform flow check: Well static. Meanwhile remove rope between landing string and 100 umbilical. Wait 10 min for annular element to retract POOH from 3070 m to 3059and perform new	35/11-B-11 HTS 35/11-B-11 HTS 35/11-B-11 HTS
7-feb-19 Deepsea Atlantic	07:05	07:30 07:15	15 15 10	3059 3070	31,41 PULL TUBING ON LANDINGSTRING	100 Projub meeting prior to pail out with \$5 state institution. 100 Projub meeting prior to pail out with \$5 state institution proper between landing string and both prior to prior t	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	07:05 06:45	07:30 07:15 07:05	15 15 10 20	3059 3070 3070	31,41 PULL TUBING ON LANDINGSTRING 6,41 FLOW CHECK	100 Project meeting prior to just out with \$5.5 and immillised in Newton The code. We will static. Meetinable remove repetitives the steeping and 100 immilliaria. 100 immilliaria. 100 Project Meeting of the project of the prior to the steeping and the steep	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
Feb-19 Deepsea Atlantic Feb-19 Deepsea Atlantic Feb-19 Deepsea Atlantic Feb-19 Deepsea Atlantic	07:05 06:45	07:30 07:15 07:05	15 15 10 20	3059 3070 3070	31,41 PULL TUBING ON LANDINGSTRING 6,41 FLOW CHECK	100 Project mixeting prior to just out with \$5.5 and immilisted between landing string and Jerkman Wood. Will will call, beaching remove injury land prior just and While 100 min for annual element to retract. PROIR from 300°m to 3000 and perform new 100 minds while production limit in limit in our just parameter. 100 minds while production limit in limit in our just parameter. 100 minds from check. Please decided, all Will states. 100 minds of providing or 400 min must call with in 150 Min Prior to take from check. See thistoring 60°M cells stated for 50°C. With interruits personal according to take from check. See thistoring 60°C will we stated for 50°C. With interruits personal according to take from check.	35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS 35/11-8-11 HTS
Meb-19 Deepsea Atlantic	07:05 06:45 06:30	07:30 07:15 07:05 06:45	15 15 10 20 15	3059 3070 3070 3070	31,41 PULL TUBING ON LANDINGSTRING 6,41 FLOW CHECK 31,41 PULL TUBING ON LANDINGSTRING	100 Project meeting prior to just out with \$5.5 and immillised in Newton The code. We will static. Meetinable remove repetitives the steeping and 100 immilliaria. 100 immilliaria. 100 Project Meeting of the project of the prior to the steeping and the steep	35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS 35/11.8-11 HTS
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7-feb-19 Deepsea Atlantic P-feb-19 Deepsea Atlantic	07:05 06:45 06:30	07:30 07:15 07:05 06:45	15 15 10 20 15	3059 3070 3070 3070	31,41 PULL TUBING ON LANDINGSTRING 6,41 FLOW CHECK 31,41 PULL TUBING ON LANDINGSTRING	100 Project meeting prior to put out with \$5.5 and without \$1.5 and the public \$1.5 and the public \$1.5 and \$1.	35/11-8-11 HTS
Ardeb-19 Deepsea Atlantic	07:05 06:45 06:30 05:15 04:45	07:30 07:15 07:05 06:45 06:30 05:15	15 15 10 20 15 75	3059 3070 3070 3070 380	31,41 PALT TUBING ON LANDINGSTRING 643 FLOW CHECK 31,41 PALL TUBING ON LANDINGSTRING 26,91 Work with Subges EQ in WH area 15,11 PRESSURE TEST BOP	100 Project meeting prior to put out with \$5.5 and without \$1.5 and the public \$1.5 and the public \$1.5 and \$1.	35/11-8-11 HTS
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26-feb-19 Deepsea Atlantic	13:00	14:30	90	380	11,03 WL OPERATIONS	plate. RiH to 100 m and activate compensator. Latch on to plug and jar upwards. Confirmed 97 extra weight on toolstring.	35/11-B-11 HTS
6-feb-19 Deepsea Atlantic	12:45	13:00	15	0	11,02 RIG UP OR DOWN FOR WIRELINE	97 Rig up for run wire line.	35/11-B-11 HTS
6-feb-19 Deepsea Atlantic	12:30	12:45	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 New prejob meeting after change in planes prior to pick up wire line tool string.	35/11-B-11 HTS
6-feb-19 Deepsea Atlantic	12:15	12:30	15	0	41,01 WAIT ON 3.PART	100 Deepwell to prepare wireline BHA. Meanwhile prepare wireline rig up on drilfoor.	35/11-B-11 HTS
6-feb-19 Deepsea Atlantic	12:00	12:15	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Install lowers part of MSP tool after machined. Meanwhile clean and clear rigfloor.	35/11-B-11 HTS
6-feb-19 Deepsea Atlantic	11:30	12:00	30	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Transfer MSP tool to AUX and stripped down lowes part of tool and machined in lathe. 100 Meanwhile Deep Well wire line crew start to set up tool string and equipment.	35/11-B-11 HTS
6-feb-19 Deepsea Atlantic	11:15	11:30	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting with all involved personell prior to rigging up for wireline operations.	35/11-B-11 HTS
6-feb-19 Deepsea Atlantic	11:00	11:15	15	0	6,11 LAY DOWN BHA	100 Management of change - L/D MSP tool to prepare for wireline operations. Open both ACV valves on HXT. Close BSR and open kill line failsafe valves. Flow check and	35/11-B-11 HT5
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	10:30 10:15	11:00 10:30	30 15	0	6,41 FLOW CHECK 38,01 CLEAN AND CLEAR RIGFLOOR	100 monitor well up kill line. Cloce AVV 1& 2. 100 Clean and clear DF. Prepare for next run.	35/11-B-11 HTS 35/11-B-11 HTS
26-feb-19 Deepsea Atlantic	09:50	10:15	25	0	6,11 LAY DOWN BHA	Remove innerbushings and POOH with MSP tool guiding with DFMA. No plug attached to 100 tool.	35/11-B-11 HTS
						Open Annular and wait for element to fully retract. POOH from 378m to 15m with MSP tool	
26-feb-19 Deepsea Atlantic	09:20	09:50	30	15	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 and plugg, Reduced trippingspeed due to fullbore and according to Intervell. Ventilate up chokeline. Close lower annular, take up/down weight. 7 E/ESton. Slowly strip inn to enter TH Plugg according to Intervell. Apply 5-6 ton down weight to engage plugg. Slowly P/U. Observer max upweight 80 ton. Continue P/U until contralizer stops in lower	35/11-B-11 HTS
26-feb-19 Deepsea Atlantic	09:00	09:20	20	378	12,88 SET/RELASE MECH PLUGS	100 annular. Cont RiH on 5 7/8" DP from 15m to 378m according to interwell. Reduced trippingspeed due	35/11-B-11 HT5
26-feb-19 Deepsea Atlantic	08:00 07:40	09:00 08:00	60	378	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 to fullbore and according to Interwell.	35/11-B-11 HTS
26-feb-19 Deepsea Atlantic			20	15	6,1 MAKE UP BHA 6,11 LAY DOWN BHA	100 Re-build MSP Tool and BiH with tool asy, from RKB to 15m Pull slowly through retary with Multi Setting Pulling tool. Observed that Tubing Hanger plug 100 was not engage to RT. Intervell REP change RT and test same.	35/11-B-11 HTS 35/11-B-11 HTS
26-feb-19 Deepsea Atlantic 26-feb-19 Deepsea Atlantic	07:00 06:30	07:40 07:00	30	14	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with MSP on 5-7/8" DP from 360 m to 0 m. Use mudbucket.	35/11-B-11 HTS
						Install last stand. Must in his and positions citied, it makes bounding depth. Clase anneals and record up, and divenmingful, bugging 80 thos, desempley 72 toos. She update annuals to wirth, correct depth. Side down with open chole and set down 80 the on piling faced choice prior to pay large files. Preserve up 59° to 9 bas. Open AVI lies in WOCS. Aftert to pull free ETHE?— no presumed open overpull deserved. Attempt to pull free plug three times— or verification on pulled figur. Equation standards. Once him Rec. Deceme well it stable. Open where the contraction of the stable statement. Once the Rec. Deceme with stable. Open verification on pulled figur. Equation standards. Once him.	
26-feb-19 Deepsea Atlantic 26-feb-19 Deepsea Atlantic	05:45 05:25	06:30 05:45	45 20	360 360	12,88 SET/RELASE MECH PLUGS 6,4 FILL PIPE	100 annular. 100 Fill pipe without connecting TD. 100 RIH with MSP on 5-7/8" DP from 14m to 360m.	35/11-B-11 HTS 35/11-B-11 HTS
26-feb-19 Deepsea Atlantic 26-feb-19 Deepsea Atlantic	05:10 03:50	05:25 05:10	15 80	360 0	6,75 TRIPPING RISER WITH FULL BORE TOOLS 6,1 MAKE UP BHA	100 Rebuild MSP tool on surface tested same on surface.	35/11-B-11 HT5 35/11-B-11 HT5
26-feb-19 Deepsea Atlantic	03:25	03:50	25	0	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 POOH with MSP on 5-7/8" DP from 360 m to 0 m.	35/11-B-11 HTS
						install but stand. Run in hole and position string it in above loading depth. Close annular and record up- and downweight. Upweight 81 ton, downweight 72 ton. Side under annular to verify correct depth. Side down and set down 10 ton on plug. Pressure up SPP in 9 bar. Open AV line in MOCS. Attempt to pull five LTMCP - top presumerstrip or overpul observed. Attempt to pull fire high tree films: no verification on pulled fight. Epilates thatation.	
26-feb-19 Deepsea Atlantic 26-feb-19 Deepsea Atlantic	01:35 01:25	03:25 01:35	110	360 360	12,88 SET/RELASE MECH PLUGS 6,4 FILL PIPE	100 Close AV line. Observe well is stabile. Open annular. 100 Fill pipe without connecting TD.	35/11-B-11 HTS 35/11-B-11 HTS
26-feb-19 Deepsea Atlantic	00:50	01:25	35	360	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 RIH with MSP on 5-7/8" DP from 14m to 360m.	35/11-B-11 HT5
						P/U MSP and inspect same. Perform surface test on same assy, observed plugged nozzle. Broke out MSP tool and clean. Re-take surfacetest with 170 lpm - 22 bar open /8 bar close	
26-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	00:00 23:45	00:50 00:00	50 15	14 0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Meanwhile P/U SLS to RCW and attach umbilical to same. 100 Held prejobmeeting prior to RiH with MSP.	35/11-B-11 HTS 35/11-B-11 HTS
25-feb-19 Deepsea Atlantic	23:15	23:45	30 15	0 23	6,11 LAY DOWN BHA 6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 POOH and inspect MSP/THCP and L/ D same to RCW.	35/11-B-11 HTS 35/11-B-11 HTS
25-feb-19 Deepsea Atlantic	23:00	23:15	15	23	6,73 INSPINS RISER WITH FULL BURE TUBES	100 POOH with MSP/THCP on 5 7/8" from 340m to 23m Run in and Close annular at 370m. Slide down and sat down 6 T and latch on plug, pressured	33/11-8-11 HIS
5-feb-19 Deepsea Atlantic	21:50	23:00	70	340	12,88 SET/RELASE MECH PLUGS	up to 10 Bar. Pulled plug free with 8 T OP. Flow check trough AV line. Flow check ok. Well 100 static. Open annular.	35/11-B-11 HTS
5-feb-19 Deepsea Atlantic	20:35	21:50	75	340	5.02 DISPLACE WELL/RISER	Displace riser from SW to 1,05sg NaCl. fill pipe. Meanwhile Preform prejobmeeting for pull 100 UTHCP.	35/11-B-11 HTS
15-feb-19 Deepsea Atlantic 15-feb-19 Deepsea Atlantic	20:15	20:35 20:15	20 15	340	6,75 TRIPPING RISER WITH FULL BORE TOOLS 15,07 FUNCTION TEST DIVERTER	100 RIH with MSP on 5-7/8" DP from 23m to 340m. 100 Test diverter, stb selected.	35/11-B-11 HTS 35/11-B-11 HTS
5-feb-19 Deepsea Atlantic	19:15	20:15		0	6.1 MAKE UP BHA	Pick up BHA. Preform surface test. Pumped with 270lpm,pump pressure open 23bar, pump	35/11-B-11 HTS
5-feb-19 Deepsea Atlantic	19:00	19:15	45 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 pressure close 10bar. 100 Prejobmeeting before pick up BHA.	35/11-B-11 HTS
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	18:30 18:15	19:00 18:30	30 15	0	12,88 SET/RELASE MECH PLUGS 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Set valve status on XMT. 100 Pre job meeting prior to pull THCPS 100 Drop check top drive after pring.	35/11-B-11 HTS 35/11-B-11 HTS
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	17:45 17:15	18:15 17:45	30 30	0	25,22 DROP's Inspection 6,33 CHANGE HANDLING EQUIPMENT	nn Install torque wrench.	35/11-B-11 HTS 35/11-B-11 HTS
						Change inserts in BX to 5-7/8" and install shackle sub. Install loading frame in front of RCWM. Lift spider on frame and secure same. Install funnel in rotary. Install adapter ring.	
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	16:00 14:15	17:15 15:00	75 45	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT 14,23 RUN, LP-RISER / DIVERTER	100 outer bushings and master bushing. 100 P/U diverter from RCWM and install in rotary.	35/11-B-11 HTS 35/11-B-12 AH
						P/U diverter from RCWM and install in rotary. Lay down diverter running tool. Fill riser with	
25-feb-19 Deepsea Atlantic	14:15	16:00	105	0	14,23 RUN, LP-RISER / DIVERTER	100 SW.	35/11-B-11 HTS
25-feb-19 Deepsea Atlantic	14:00	14:15	15	0	6,33 CHANGE HANDLING EQUIPMENT	100 Change inserts in BX. Arrange all hydraulick hoses for the Riser R/T and secure them to TD. Change inserts in BX. Arrange all hydraulick hoses for the riser 100 running tool and secure them to TD.	
25-feb-19 Deepsea Atlantic	14:00	14:15	15	0	6,33 CHANGE HANDLING EQUIPMENT	Breake out and lay down landing joint in RCWM. Rig down riser running tool and lay down	35/11-B-11 HTS
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	13:45 13:45	14:00 14:00	15 15	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT 14,17 RIG DOWN BOP RUNNING EQUIPMENT	100 same. 100 Loosen all riserbolts and L/D landing joint in RCWM, L/D Riser R/T.	35/11-B-11 HT5 35/11-B-12 AH
25-feb-19 Deepsea Atlantic	12:30	13:45	75	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT	Prepare to lay down landing joint. Meanwhile perform connector test 20 /300 bar 5/10 min.	35/11-8-12 AH
						100 Total pumped 81 ltr and 62 ltr in return. Prepare to lay down landing joint. Meanwhile perform connector	
25-feb-19 Deepsea Atlantic	12:30	13:45	75	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT	100 test 20 /300 bar 5/10 min. Total pumped 81 lit and 62 lit in return. Optimize rig position. Install guide line ancors. Run slowly down and land 800° 12.25 hrs. Set down 30 ton. Activate well head connector. ROV observe and verify flag indicator. volume counter	35/11-B-11 HTS
25-feb-19 Deepsea Atlantic	12:00	12:30	30	0	14,34 JUMP BOP	100 on BOP panel count 20 gallon ok. Optimize rig position. Install guide line ancors. Run slowly down and land BOP 12.25 hrs. Set	35/11-B-11 HTS
25-feb-19 Deepsea Atlantic	12:00	12:30	30	367	14,34 JUMP BOP	down 30 ton. Activate well head connector. ROV observe and verify flag indicator. volume 100 counter on BOP panel count 20 gallon ok.	35/11-B-12 AH
25-feb-19 Deepsea Atlantic	11:15	12:00	45	367	14,34 JUMP BOP	Collapse inner barrel. Disconnect well head connector. Pull BOP above structure. Move rig	35/11-8-12 AH
	09:30	11:15	.~		14,34 PREPARE TO JUMP BOP	100 from B-12 to B-11. Rov inspect well head connector. Install Riser R/T. P/U Riser landingjoing from RCWM and M/U to slip joint. Install VX ring on 100 B-11.	35/11-8-12 AH
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	09:30 09:15	09:30	105 15	367 0	14,33 PREPARE TO JUMP BOP 6,33 CHANGE HANDLING EQUIPMENT	100 Ib-11. 100 Change handling equipment to P/U Riser R/T. P/U diverter R/T from RCWM. Install R/T in diverter. P/U and land in solder. Disconnect	35/11-B-12 AH 35/11-B-12 AH
15-feb-19 Deepsea Atlantic	08:25	09:15	50	0	14,24 PULL ,LP-RISER /DIVERTER	100 diverter and L/D to RCWM.	35/11-B-12 AH
25-feb-19 Deepsea Atlantic	07:15	08:25	70	0	14,33 PREPARETO JUMP BOP	100 Continue to rig up BOP handling equipment. Meanwhile ballast rig to 23m draft.	35/11-B-12 AH
25-feb-19 Deepsea Atlantic	07:00	07:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Projob meeting with crew prior to rigging up equipment for I/D diverter and jumping BOP. Remove torquewench. Perform breaktest of DW. Install shackles sub in elevator. Remove masterbushing, spit bushing, solid adapter ring and install riserspider. Rig down riser spider	35/11-8-12 AH
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	05:30 05:15	07:00 05:30	90 15	0	14,18 RIG UP BOP RUNNING EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 equipment. Meanwhile deballast rig to 21m draft. 100 Held prejobmeeting prior to rig up for jumping BOP.	35/11-B-12 AH 35/11-B-12 AH
25-feb-19 Deepsea Atlantic	04:30	05:15	45	0	5,02 DISPLACE WELL/RISER	Empty triptanks: Displace riser to SW by pumping down kill-, choke- and boosterline. Pump 100 with 4000 lpm. Pump total of 4500 stokes - 84 m3.	35/11-8-12 AH
						Line up for pressuretest of 10-3/4" GTV against BSX and BOP test #9. Verify lineup with 10 bar on line prior to open failsafe. Pressuretest to 20 bar/5 min and 300 bar/10 min. Bleed down and open BSX. Meanwhile held prejobmeeting for displacement of riser to SW. Start to	
25-feb-19 Deepsea Atlantic	03:45	04:30	45	U	13,2 PRESSURE TEST OF CASING	100 deballast rig to 21 m draft. POOH with 10-3/4" GTV RT from 360 m to surface on 5-7/8" HWDP. P/U double from	35/11-8-12 AH
25-feb-19 Deepsea Atlantic	02:45	03:45	60	0	6,11 LAY DOWN BHA	100 RCWM. Lay down GTV RT assy to RCWM. Disconnect TD. POOH with 1 ea stand 5-7/8" HWDP. Compensate through BOP with 10-3/4"	35/11-B-12 AH
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	02:35 02:30	02:45 02:35	10	360 425	6,74 COMPENSATE THROUGH BOP 12,88 SET/RELASE MECH PLUGS	100 GTV RT on 5-7/8" HWDP. 100 Release RT from GTV plug according to Baker instructions.	35/11-B-12 AH 35/11-B-12 AH
						Increase pressure to 100 bar from cementurit. Observe for leakage to triptank; increase in SPP and at WOCS. Found leakage on needle valve in WOCS on control line to DHSV. Isolation valve on HXT also open. Closed isolation valve on HXT and verified stabile pressure in steps of	
25-feb-19 Deepsea Atlantic 25-feb-19 Deepsea Atlantic	01:00 00:30	02:30 01:00	90 30	463 463	13,2 PRESSURE TEST OF CASING 41,2 WAIT ON INSTRUCTIONS	100 20 bar/100 bar/200 bar/300 bar. Bleed down pressure from cementunit. Open annular. 100 Evaluate further operation.	35/11-B-12 AH 35/11-B-12 AH
25-feb-19 Deepsea Atlantic	00:15	00:30	15	463	13,2 PRESSURE TEST OF CASING	100 Preformed line test 50 bar, ok. Changed from LAP to UAP and pressure test to 50 bar, no go.	
25-feb-19 Deepsea Atlantic	00:00	00:15		463	13.2 PRESSURE TEST OF CASING	Sat 20 bar on SSP to pressure up well to 20 bar, increased annulus pressure to 50 bar - 100 pressure dropped to 40 bar after 2 min. Bleed off pressure.	35/11-8-12 AH
25-feb-19 Deepsea Atlantic 24-feb-19 Deepsea Atlantic	23:45	00:15	15 15	463 463	13,2 PRESSURE TEST OF CASING 41,2 WAIT ON INSTRUCTIONS	100 pressure propert to 40 par after 2 min. Bleed off pressure. 97 Evaluate further operations.	35/11-B-12 AH 35/11-B-12 AH
24-feb-19 Deepsea Atlantic	22:40	23:45	65	463	13,2 PRESSURE TEST OF CASING	Line up for pressuretest of 10-3/4" GTV plug. Set 10 bar on SPP to observe if leak across plug. Close lower annular and line well on triptank. Verify lineup with 10 bar on fallsafe. Attempt 100 to pressuretest plug to 20 bar/5 min. Nogo. No pressurebuild up observed on SPP.	35/11-B-12 AH
						Connect TD. Fill pipe. Record up/down weights: Up 99t, down 98t. Position string 1,5 meter over settingdepth. Set bottom plug with 8 rotations at 425m RRB. Preform packer setting senuence according Baker. Intal of 30 thron una 31 for down. Set down 2 frond 1	
24-feb-19 Deepsea Atlantic	22:05	22:40	35	463	12,88 SET/RELASE MECH PLUGS	100 landingstring on plug. Meanwhile perform surface test to 300 bar prior to test plug. Compensate 8" DC stand under GTV plug through BOP. Install new 5-7/8" HWDP stand.	35/11-B-12 AH

24-feb-19 Deepsea Atlantic 24-feb-19 Deepsea Atlantic	21:20 21:05	21:50 21:20	30 15	358 0	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	install 2 ea XO. P/U GTV plug and inspect same. Remove safety clamp. RiH with 10.3/4" GTV 100 plug on 5-7/8" HWDP from surface to 358 m. 100 Held projobmeeting with crew prior to build BHA / 10-3/4" GTV plug.	35/11-8-12 AH 35/11-8-12 AH
			15			100 Held prejobmeeting with crew prior to build BHA / 10-3/4" GTV plug. Change handeling equipment from 5-7/8" to 6-5/8". RiH with 1 ea stand 8" DC. Change 100 handlingequipment from 5-7/8" to 5-7/8".	
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	20:50 20:40	21:05 20:50	15 10	0	6,33 CHANGE HANDLING EQUIPMENT 38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear drillfloor. Prepare tally for next operation.	35/11-8-12 AH 35/11-8-12 AH
4-feb-19 Deepsea Atlantic	19:30	20:40	70	0	6,11 LAY DOWN BHA	POOH with BHA on 5-7/8" HWDP from 428 to surface. Compensate through BOP. L/D GTV 100 plug and scrape to RCWM.	35/11-B-12 AH
24-feb-19 Deepsea Atlantic	19:00	19:30	30	428	12,88 SET/RELASE MECH PLUGS	100 Scrape 10-3/4" casing from 428m to 390m 5 times, pump with 1000 lpm.	35/11-B-12 AH
24-feb-19 Deepsea Atlantic	18:30	19:00	30	430	6,08 POOH CH reduced speed	100 POOH from \$33m to 430m with GTV plug according to Baker instruction. Rill from 456 m to \$33 m. set GTV plug and attaint to get positive piessure sect. NOGO. Release R/T and POOH to \$25m. Close lower annular. Attem Pressure down chokeline between lower annular and plug. NOGO. Attemt to increase pressure to 60bar, pressure	35/11-8-12 AH
24-feb-19 Deepsea Atlantic 24-feb-19 Deepsea Atlantic	16:30 15:15	18:30 16:30	120 75	533 496	12,88 SET/RELASE MECH PLUGS 41,01 WAIT ON 3.PART	100 drop. RiH and connect. RT to GTV plug. 100 Due to lekage on GTV plug, wait on further instruction from Baker and Equinor.	35/11-B-12 AH 35/11-B-12 AH
Prieb 15 Deep Ra Polanic	13.13	10.30	-,3	450	4,02 Will ON 32 AN	Deside to scrape plug area and re-set GTV plug. Release GTV plug and start pumping with 1000 lpm / 6 Bar while reciprocating string up and down @ plug set area. Set GTV plug @#32m. Attempt to pressure up and test GTV plug again. Test not approved. Decide to disconnect GTV committee double and test GTV plug without remnifection. ONGOL Latch on to plug.	JANUAR N
24-feb-19 Deepsea Atlantic	12:30	15:15	165	496	12,88 SET/RELASE MECH PLUGS	100 and release plu. Relax elements 10 min. Plugg is set. Try to pressuretest plug. Pressure drops. Set 10 bar inside drillpipe and pressure	35/11-B-12 AH
24-feb-19 Deepsea Atlantic	12:00	12:30	30	489	12,88 SET/RELASE MECH PLUGS	up to 20 bar in annulus. Monitor pressurdrop in annulus whil pressure builds up in DP untill 100 pressure is equalitaed, confirming plug leaking. Install 1 std and M/U TD to string, Activate compensator. Start pumping with 1000 lpm. Wash and scrape setting area from 475m to 495m. Place plug 2 meters above settingdepth	35/11-B-12 AH
24-feb-19 Deepsea Atlantic	11:15	12:00	45	489	12,88 SET/RELASE MECH PLUGS	@485m. Start rotating string clockwise (16 turns) and move string slowly down. 2KNm 100 recorded rotational torque. Cont RIH from 100 m to 468m. Compensate trough BOP. Reduced speed according to Baker	35/11-8-12 AH
24-feb-19 Deepsea Atlantic	10:00	11:15	75	468	6,07 RIH CH Reduced speed	GTV plugg representativ. Space out to place single DP in upper annular and GTV plug in the 100 middleof two casing connections. Fick up scraper, GTV and running tool. 2 X S 7/8 HWDP stand. 1 X S 7/8* Pup Joint. 1 X S	35/11-B-12 AH
24-feb-19 Deepsea Atlantic 24-feb-19 Deepsea Atlantic	09:00 08:45	10:00 09:00	60 15	100	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 7/8" HWDP joint	35/11-8-12 AH 35/11-8-12 AH
24-feb-19 Deepsea Atlantic	08:30	08:45	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Projob meeting prior to run 10 3/4" GTV plug. 100 Clean and clear. Prepare for next run.	35/11-B-12 AH
24-feb-19 Deepsea Atlantic 24-feb-19 Deepsea Atlantic	07:50 07:00	08:30 07:50	40 50	134	6,11 LAY DOWN BHA 6,08 POOH CH reduced speed	100 POOH with BHA from 134 m to RKB. L/D GTV plug assy to RCWM. 100 POOH with 10%" GTV plugg from 528m to 134m. Pull wet using mudbucket.	35/11-8-12 AH 35/11-8-12 AH
24-feb-19 Deepsea Atlantic	06:35	07:00	25	528	12,88 SET/RELASE MECH PLUGS	Line up and run in and latch on to 10 3/4" GTV plug. Release plug. Wait for 10 min to retrack 100 elements prior to POOH.	35/11-8-12 AH
24-feb-19 Deepsea Atlantic	06:00	06:35	35	515	41,2 WAIT ON INSTRUCTIONS	97 Evaluate further operation. Line up for BOP test # 5 (LPR) against 10-3/4" GTV plug down drillstring and choke line.	35/11-B-12 AH
24-feb-19 Deepsea Atlantic	05:15	06:00	45	515	15,11 PRESSURE TEST BOP	Perform pressuretest to 20 bar/5min, observe leakage when increasing pressure to 300 bar. 100 Bleed down pressure. Re-set GTV plug, bottom of at 527,4m and top at 522,5m. Perform overpull and set down to	35/11-B-12 AH
24-feb-19 Deepsea Atlantic 24-feb-19 Deepsea Atlantic	05:00 04:40	05:15 05:00	15 20	528 527	12,88 SET/RELASE MECH PLUGS 12,88 SET/RELASE MECH PLUGS	100 30 ton in steps to verify plug set. Release RT from GTV plug. 100 Run past settingdepth at 524 m to verify plug released. Wash with 800 lpm/5 bar	35/11-B-12 AH 35/11-B-12 AH
24-feb-19 Deepsea Atlantic	04:20	04:40	20	524	12,88 SET/RELASE MECH PLUGS	100 RIH and latch on to 10-3/4" GTV plug. Release plug. Wait 10 min to retrack packer elements.	
24-feb-19 Deepsea Atlantic	02:45	04:20	95	515	15,11 PRESSURE TEST BOP	Pull out 9.5 in to space out for closing BIOP. Verify spaceout by pulling toolpint under upper annuals. Open annuals and position string for BIOP sets. Pressure test upper annuals, CTV plug and BIOP 20 Table 31 in	35/11-8-12 AH
24-feb-19 Deepsea Atlantic	02:45	02:45	15	524	12,88 SET/RELASE MECH PLUGS	100 test - ok. Evaluate situation. Decided to release 10-3/4" GTV plug. Release runningstool from plug to eliminate leak in runningstool seals. Pull up one singel to 100 continue with BOP test.	35/11-B-12 AH
24-feb-19 Deepsea Atlantic	01:20	02:30	70	524	15,11 PRESSURE TEST BOP	Line up for 80P test # 3. Pressure test 80P to 20 bar/5 min and 300 bar/10 min. Observed leak at high pressure test. Bleed down pressure and line up from upper to lower annular and change falsafes to eliminated possible leak in 80P. Still leak on high pressure test. No	
						100 standpipe pressure buildup observed through sting. Open annular and position string. Set plug at 524 m bottom plug. 9 rotations from start sequence to set plug. Preform overpull and down weights sequence according to baker	35/11-B-12 AH
24-feb-19 Deepsea Atlantic	01:10	01:20	10	524	12,88 SET/RELASE MECH PLUGS	100 prosedure. Pull total of 30 ton and set down total of 30 ton on plug. Record up down weights. Up 99 t, down 98 t. Position string and pull tooljoint under annular 100 with reduced pressure to verify spaceout for setting plug and at same time perform BOP test	35/11-8-12 AH
24-feb-19 Deepsea Atlantic	00:30	01:10	40	520	12,88 SET/RELASE MECH PLUGS	100 with reduced pressure to vernly spaceout for setting prug and at same time personn BUP test Rill with 10-3/4" GTV plug on 5-7/8" HWDP, Connect TD. Perform BOP test # 1 and BOP test 100 # 2 to 20 bar/5 min and 300 bar/10 min while Rill with GTV plug.	
4-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	00:00 23:30	00:30	30 30	500 20	6,07 RIH CH Reduced speed 6,07 RIH CH Reduced speed	100 # 2 to 20 bar/5 min and 300 bar/10 min while RIH with GTV plug. 100 RIH with 10 3/4" GTV plug on 5 7/8" HWDP	35/11-8-12 AH 35/11-8-12 AH
3-feb-19 Deepsea Atlantic	23:15	23:30	15	0	6,1 MAKE UP BHA 25.3 PREIDBMFFTING - RRIFF/DERRIFF		35/11-B-12 AH
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	23:00 22:30	23:15 23:00	15 30	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Projob meeting for P/U and M/U GTV plug assembly and run in hole with same. 100 Clean and clear rig floor prior to run shalow plug.	35/11-B-12 AH 35/11-B-12 AH
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	21:45 21:30	22:30 21:45	45 15	0 40	6,11 LAY DOWN BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Rack back 1 stand 5-7/8" HWDP. B/O fishing jar and overshot assy. 100 Prejobmeeting prior to L/D Overshot and jar assy.	35/11-8-12 AH 35/11-8-12 AH
3-feb-19 Deepsea Atlantic	21:00	21:30	30	40	25,22 DROP's Inspection	100 DROPS inspection of HR, TD and derrick after jaring operations and prior to L/D BHA.	35/11-8-12 AH
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic	20:50	21:00	10	118	6,11 LAY DOWN BHA 6,01 POOH CH	100 POOH with Owenhot assy on 5-7/8" HWDP from 118 m to 40 m. POOH from 554m to 118m with Overshoot assy on 5-7/8" DP. Lay down double. 100 Compensate through BOP. P/U double.	35/11-8-12 AH 35/11-8-12 AH
23-feb-19 Deepsea Atlantic	20:00	20:15	15	554	19,01 FISHING, OTHERS	100 Release overshoot according to Baker rep. prior to POOH. M/U TD to string. Start pumping and rotating string with 20 rpm/350 lpm. Upweight 86 ton. Compensate string and BHI to to g 55° toking and engage overshot. Attempt to pull with 195 to without releasing bulling, Engage & cartivate jee. July or Jup of the Detween July.	35/11-B-12 AH
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic	17:55 17:35	20:00 17:55	125	554 534	19,01 FISHING, OTHERS 6 RIH CH	100 Max pull 316 ton hookload. Jared up 37 times but not able to pull 5 1/2** free. 100 Continue RH from 380 m to 534 m.	35/11-B-12 AH 35/11-B-12 AH
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic	17:30 17:15	17:35 17:30	5 15	380 350	6,74 COMPENSATE THROUGH BOP 6 RIH CH	100 Compensate through BOP with overshot BHA. 100 RHI from 157 m to 350 m. Pick up bumper sub using tugger. Install handling pup and lay down in catwalk. Pick up	35/11-8-12 AH 35/11-8-12 AH
23-feb-19 Deepsea Atlantic	15:15	17:15	120	157	6,1 MAKE UP BHA	overshot and make up same. Install bumper sub and breake out handling pup. Install jar 100 stand from aux. RiH on 5-7/8" HWDP. Lay down double 5-7/8" DP.	35/11-B-12 AH
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic	15:00 14:45	15:15 15:00	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Projebmeeting prior to build fishing BHA. 100 Remove pipe doper and auto slips. Clean and clear rigfloor. Start POOH with BHA from 140m to RWB. I/O Xtreem magnet assy and venturi assy to	35/11-B-12 AH 35/11-B-12 AH
23-feb-19 Deepsea Atlantic	14:00	14:45	45	0	6,11 LAY DOWN BHA	100 RCWM. B/O bottom X/O on Fishing jar assy and rack back.	35/11-B-12 AH
23-feb-19 Deepsea Atlantic	13:00	14:00	60	140	6,08 POOH CH reduced speed	100 Start POOH from 554m to 140m with venturi assy. Reduced speed due to use of mud bucket. Connect topdrive and fill pipe. Performed torque readings. Continue RH to 553 m. Tag cut with 1,5 ton. Continue rotate down to 554 m. Start circulate with 1600 jm./ 100 bar. POOH	35/11-B-12 AH
23-feb-19 Deepsea Atlantic	12:45	13:00	15	554	S,01 CIRCULATE HOLE CLEAN	100 slowly while rotating 10 RPM. RIH with venturi assy from 348m to 540 m. Reduced speed due to possible restrictions in	35/11-B-12 AH
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	12:00 11:15	12:45 12:00	45 45	540 348	6,07 RIH CH Reduced speed 6,07 RIH CH Reduced speed	100 well. 100 RIH with venturi assy from 140m to 348m.	35/11-8-12 AH 35/11-8-12 AH
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	10:30	11:15 10:30	45 160	0	6,1 MAKE UP BHA 6,1 MAKE UP BHA	100 RIH while B/U Venturi BHA from RKB to XXXXVm. 100 Rebuild Venturi assy with use of manual rig tongs.	35/11-B-12 AH 35/11-B-12 AH
							35/11-8-12 AH
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	07:40 07:05 07:00	07:50 07:40 07:05	10 35	0 0 30	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,11 LAY DOWN BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting prior to pick up 8 1/2" Venturi assy and make up with manual rig tongs. 100 Rack back jar stand with X-Over. Lay down magnet assy and Junk Mill assy. 100 Tool boy This ceier to Judgman Junk Mill.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
3-feb-19 Deepsea Atlantic	06:15	07:00	45	133	6,01 PODH CH	100 Tool box talk prior to lay down Junk Mill assy. Disconnect TD. PODH with 9-3/8" junk mill on 5-7/8" DP from 549 m to 133 m. Compensate 100 through 80P. P/U single from RCWM. Continue PODH to RKB. 100 Flowcheck well on active system for 10 min. Well static.	35/11-B-12 AH
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic	05:30	06:15 06:00	15 30	549 549	6,41 FLOW CHECK 5,01 CIRCULATE HOLE CLEAN	Circulate hole clean with 3000 Ipm -46 bar. Boost riser with 1000 Ipm. Bottom up 3700 100 strokes. Pump total of 4750 strokes. No debries observed at shakers. Connect TD. Fill pipe. Record upweight 87 ton, downweight 87 ton, Tag top of 5-1/2" tubing	35/11-B-12 AH 35/11-B-12 AH
23-feb-19 Deepsea Atlantic	04:45	05:30	45	551	35,01 MILLING	at 550,80 m with 5 ton. Start to dress 5-1/2" tubing cut with 100 rpm, 2-3 kN/m tongue, 2000 lpm, 22ax, Boot riear with 1000 lpm. Retag with 5 ton without rotation after dressing cut - 100 tag top of 5-1/2" tubing at 551,00 m.	35/11-8-12 AH
23-feb-19 Deepsea Atlantic	04:15	04:45	30	540	6 RIH CH	RIH with junk mill on 5-7/8" DP CE from 133m to 540 m. Lay down singel for spaceout. 100 Compensate through BOP.	35/11-B-12 AH
13-feb-19 Deepsea Atlantic 13-feb-19 Deepsea Atlantic	03:50	04:15 03:50	25 15	133	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 P/U 9-3/8" junk mill, x-treme magnet and jar STD. RiH with 3 stands 5-7/8" HWDP. 100 Prejob meeting before pick up junkmill.	35/11-8-12 AH 35/11-8-12 AH
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic	03:00 02:30	03:35 03:00	35 30	0	19,01 FISHING, OTHERS 6,01 POOH CH	POOH with HWDP and rope spear. Remove fish. Approximatisy 7m hydraulic line. Lay down 100 rope spear assy. 100 POOH wet trip with rope spear 549 m tp 131 m.	35/11-8-12 AH 35/11-8-12 AH
23-feb-19 Deepsea Atlantic	02:10	02:30	20	529	19,01 FISHING, OTHERS	Connect TD. Upweight 87 ton, downweight 86 ton. Tag control line fish at 552 m. Start rotating at 1 kHm free borque. Set down 4t while rotating. Torque from 1 to 3 kHm. Pick up 100 weight and repeat sequence.	35/11-8-12 AH
23-feb-19 Deepsea Atlantic	01:30	02:10	40	529	6 RIH CH	RIH with Rope spear from 131 m to 529 m on 5-7/8" DP. Compensate through BOP. L/D 100 double for spaceout fish.	35/11-8-12 AH
23-feb-19 Deepsea Atlantic	01:20	01:30	10	131	6,1 MAKE UP BHA	100 RIH with Rope spear, 5-7/8" singel DP and Jar assy on 3 stand 5-7/8" HWDP to 131 m. POOH with Rope spear. Remove fish with grinder - approximately 100 m of control lines.	35/11-B-12 AH
		01:20	50	0	19,01 FISHING, OTHERS 6,11 LAY DOWN BHA	100 Decided to re-run Rope spear assy to attempt to remove more control lines.	35/11-B-12 AH 35/11-B-12 AH
23-feb-19 Deepsea Atlantic	00:30						
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic	00:15 00:00	00:30 00:15	15 15	20 131	6,01 POOH CH	100 POOH wet trip with rope spear on 5 7/8" HWDP from 131m to 20 m. 100 POOH wet trip from 281m to 131 m. Compensate trough BOP.	35/11-B-12 AH
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	00:15 00:00 23:15	00:15 00:00	45	131 281	6,01 POOH CH 6,01 POOH CH	100 POOH wet trip from 281m to 131 m. Compensate trough BOP. 100 POOH wet trip from 549m to 281 m. Compensate trough BOP. Connect TD. Upweight 87 ton, downweight 86 ton. Tag control line fish at 549 m. Start rotating at 1 kMm free torque. Set down 41 while rotating, Torque from 1 to 3 kMm. Pick up	35/11-B-12 AH 35/11-B-12 AH
23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic 23-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	00:15 00:00	00:15	15 15 45 30	131	6,01 POOH CH	100 POOH wet trip from 281m to 131 m. Compensate trough BOP. 100 POOH wet trip from 549m to 281 m. Compensate trough BOP. Connect TO. Upweight 87 ton, downweight 86 ton. Tag control line fish at 549 m. Start	35/11-B-12 AH

22-feb-19 Deepsea Atlantic	21:45	22:00	15 13	1 6,1 MAKE UP BHA		35/11-B-12 AH
22-feb-19 Deepsea Atlantic	21:00	21:45	45	0 19,01 FISHING, OTHERS	POOH with Rope spear. Remove fish with grinder - approximately 25m of control lines. 100 Decided to re-run Rope spear assy to attempt to remove more control lines.	35/11-B-12 AH
22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	20:35 20:20	21:00 20:35	25 2 15 13			35/11-8-12 AH 35/11-8-12 AH
					rotating at 1 kNm free torque. Set down 4t while rotating. Torque from 1 to 3 kNm. Pick up	
22-feb-19 Deepsea Atlantic	19:50	20:20	30 54		RIH with Rope spear from 131 m to 529 m on 5-7/8" DP. Compensate through BOP. L/D	35/11-B-12 AH
22-feb-19 Deepsea Atlantic	19:20	19:50	30 52			35/11-B-12 AH
22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	18:30 18:15	19:20 18:30	50 13 15	0 25.3 PREJOBMEETING - BRIEF/DEBRIEF	100 RIH with Rope spear, 5-7/8" singel DP and Jar assy on 3 stand 5-7/8" HWDP to 131 m. 100 Prejob meeting prior to pick up Rope Spear assy.	35/11-B-12 AH 35/11-B-12 AH
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	18:00 17:15	18:15 18:00		0 25,3 PREJOBMEETING - BRIEF/DEBRIEF 0 6.11 LAY DOWN BHA	100 Prejob meeting prior to pick up Rope Spear assy. 100 Debrief after POOH this Clean out assy. 100 Rask stand with VL and ici 1 and whom him mill and magnet assy Inspect same.	35/11-B-12 AH 35/11-B-12 AH
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	16:30 16:15	17:15 16:30	45 36 15 40			35/11-B-12 AH 35/11-B-12 AH
12-160-25 Deeples Abstract	10.15	10.30	15	5 5,01 7001101	Continue RH from 400m while compensating in case of debries in well. Observed restriction	13/11-0-11 All
2-feb-19 Deepsea Atlantic	15:20	16:15	55 55		100 @ 450 m 4 ton. Continue RiH to 2 m above cut @ 553 m. Max 11 ton WOB.	35/11-B-12 AH
22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	15:10 15:00	15:20 15:10	10 40 10 36	0 6 RIH CH	100 RH from 133 m to 360 m.	35/11-B-12 AH 35/11-B-12 AH
22-feb-19 Deepsea Atlantic	14:30	15:00	30 13			35/11-B-12 AH
12-feb-19 Deepsea Atlantic 12-feb-19 Deepsea Atlantic	12:30 12:00	14:30 12:30	120 2 30	 6,1 MAKE UP BHA 41,2 WAIT ON INSTRUCTIONS 		35/11-B-12 AH 35/11-B-12 AH
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	11:15 11:00	12:00 11:15		0 41,2 WAIT ON INSTRUCTIONS 0 6,15 CHECK OF HANDLING EQUIPMENT	97 Wait for Equinor and Baker to decide which Fishing BHA to RIH. 3	35/11-8-12 AH 35/11-8-12 AH
22-feb-19 Deepsea Atlantic	10:45	11:00	15	0 38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear rigition. POOH with 5 1/2" Tubing and secure control lines with wire clamps before cutting control	35/11-B-12 AH
22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	06:45 06:30	10:45 06:45	240 15 17	0 31,41 PULL TUBING ON LANDINGSTRING 5 6,33 CHANGE HANDLING EQUIPMENT	100 lines and remove clamp's. Inspect cut and lay down last 6 m.	35/11-8-12 AH 35/11-8-12 AH
22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	05:20 05:05	06:30 05:20	70 17 15 18	IS 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Held prejob meeting prior to secure control lines, clamps and remove same.	35/11-B-12 AH 35/11-B-12 AH
22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	05:00 04:30	05:05 05:00	5 18 30 18			35/11-B-12 AH 35/11-B-12 AH
					Pick up and install tubing hanger handling tool from catwalk. Trouble latch THHT to tubinghanger due to damage profile in hanger. Attempt to polish hanger to be able to	
22-feb-19 Deepsea Atlantic 22-feb-19 Deepsea Atlantic	02:30 02:00	04:30 02:30	120 18 30 18		100 connect RT.	35/11-B-12 AH 35/11-B-12 AH
	00:00	02:30	30 18 120 18		Pull tubing hanger and upper completion from cut above DHSV at 551,7m depht. Remove	35/11-8-12 AH 35/11-8-12 AH
22-feb-19 Deepsea Atlantic						
21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic	23:30 23:15	00:00 23:30	30 30 15 35	6 6,41 FLOW CHECK	100 Flow check ok. Close all valves on XMT.	35/11-8-12 AH 35/11-8-12 AH
21-feb-19 Deepsea Atlantic	23:00	23:15	15 35	66 31,1 PULL TUBING		35/11-B-12 AH
					Wash down with 1000LPM-3 Bar and land THRT into TH Acc. Aker sat down 10 T, observed max 8% gas in return when washing in. Made strom loop and connected jumper to reel and	
21-feb-19 Deepsea Atlantic	22:00	23:00	60 38	10 6,22 WASH DOWN	lach THRT to TH Acc. to Aker. Preform 5 ton OP test to verify that THRT is lached to TH.	35/11-B-12 AH
					Con. Top driv to string. Preform up weight 92T and down weight 91T prior to land THRT in	
21-feb-19 Deepsea Atlantic	21:45	22:00	15 35			35/11-8-12 AH
21-feb-19 Deepsea Atlantic	20:00	21:45	105 35		100 RIH with THRT on 5 7/8" HWDP from 13m to 356m and attache djuvik clamps on every STD. 3 P/ U and THRT from RCW and run same trough rotary, P/ U 1 SGL 5 7/8" HWDP from RCW	
21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic	19:15 19:00	20:00 19:15	45 1 15	O 25.3 PREIORMEETING - BRIEF/DEBRIEF	100 Held pre- jobb meeting with crew prior to P/ U THRT	35/11-B-12 AH 35/11-B-12 AH
21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic	18:15 18:00	19:00 18:15	45 15	0 31,2 RIG UP TUBING 0 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Transfer THRT from deck to RCW with umbilical.	35/11-B-12 AH 35/11-B-12 AH
21-feb-19 Deepsea Atlantic	15:45	18:00	135	0 6,08 POOH CH reduced speed	100 POOH wet with 2 7/8" DP and L/D to RCWM from 177m to 0m	35/11-B-12 AH
21-feb-19 Deepsea Atlantic	15:30	15:45	15 17		Temporary stop in operation due to VIP meeting in driller cabin and demonstration of robot	35/11-B-12 AH
21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic	14:00 13:00 12:45	15:30 14:00	90 17 60 17 15 52		100 POOH wet with cut assy from 520 m to 177 m.	35/11-8-12 AH 35/11-8-12 AH 35/11-8-12 AH
21-feb-19 Deepsea Atlantic	12:45 12:30	13:00 12:45	15 52 15 55	6,41 FLOW CHECK	100 Compensate thorugh BOP with NOGO. 100 Flowcheck well 10 min. Well static.	35/11-B-12 AH 35/11-B-12 AH
21-feb-19 Deepsea Atlantic	12:00	12:30	30 55	3 12,3 CUT CASING	100 Pressure build up when trying to continue circulate.	35/11-B-12 AH
					Fill pipe without connecting Top Drive. Engage Top Drive, activate compensator and land	
					NOGO in tubing hanger. Increase flow in steps to 660 lpm 65 bar. Cut tubing according to baker fishing rep. Observed pressure increase. Bleed of pressure. Pull up and re-land NOGO.	
21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic	08:45 07:10	11:00 08:45	135 55 95 55	3 6 RIH CH	100 RIH with 5-7/8" DP from 188 mto 570 m. Compansate through BOP.	35/11-8-12 AH 35/11-8-12 AH
21-feb-19 Deepsea Atlantic	07:00	07:10	10 18			35/11-B-12 AH
21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic	06:45 05:10	07:00 06:45	15 17 95 17		100 Change handling equipment 2-7/8" DP to 5-7/8" DP. Pick up assy 3. Install 5-7/8" DP slips. 3 100 Run in hole with 2-7/8" DP from 28m to 144m	35/11-B-12 AH 35/11-B-12 AH
21-feb-19 Deepsea Atlantic	04:30	05:10	40	1 19,01 FISHING, OTHERS	Surface test of cutter assy. Motor rotate at 9 bar and 70 lpm. Cutter extend at 220 lpm and	35/11-8-12 AH
21-feb-19 Deepsea Atlantic	04:00	04:30	30 2			35/11-B-12 AH
21-feb-19 Deepsea Atlantic	02:45	04:00	75 2	8 6,1 MAKE UP BHA	100 P/U Assy 1, assy 2 and 2 pup's and M/U same with CSG tong.	35/11-B-12 AH
21-feb-19 Deepsea Atlantic	02:20	02:45	Д.	0 6,33 CHANGE HANDLING EQUIPMENT		35/11-8-12 AH
					Install transport frame in front of RCWM. Land casing tong on same and secure. Transfer casingtong from RCW and land same in main well center. Connect hoses on casingtong and	
21-feb-19 Deepsea Atlantic	01:00	02:20	80	0 12,11 RIG UP CASING/LINER EQUIPMENT	park same. Used extra time when preparing casingtong to main well center due to robot 100 (unable to prepare casingtong in aux and move over til main WC as normal).	35/11-B-12 AH
21-feb-19 Deepsea Atlantic 21-feb-19 Deepsea Atlantic	00:45 00:30	01:00 00:45	15 15	0 11,02 RIG UP OR DOWN FOR WIRELINE 0 11,03 WL OPERATIONS	97 R/D WL equipment and L/D same to deck.	35/11-B-12 AH 35/11-B-12 AH
21-feb-19 Deepsea Atlantic	00:00	00:30	30	0 11,03 WL OPERATIONS	Pull plug on WL up to RKB, verify plug on WL tool. Meanwhile held prejob meeting prior to L/	35/11-B-12 AH
					Rebuild toolstring and RIH to 100m. Activate Com. Cont. RIH. Latch on plug and pull plug	
20-feb-19 Deepsea Atlantic	23:15	00:00	45	0 11,03 WL OPERATIONS	97 free. 3 Rebuild toolstring and RiH to 100 m. Activate compensater. Continue RiH. Hung up in	35/11-8-12 AH
20-feb-19 Deepsea Atlantic	21:15	23:15	120	0 11,03 WL OPERATIONS		35/11-B-12 AH
20-feb-19 Deepsea Atlantic	21:00	21:15	15	0 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting prior to rebuild toolstring and RiH to pull EVO plug. RiH with WL to retrive THIS valve, Land on THIS. Verify latch with 200 lbs OP. Jar upwards to	35/11-B-12 AH
20-feb-19 Deepsea Atlantic	19:45	21:00	75	0 11,03 WL OPERATIONS		35/11-B-12 AH
20-feb-19 Deepsea Atlantic	19:00	19:45		0 11,02 RIG UP OR DOWN FOR WIRELINE	100 status on HXT.	35/11-B-12 AH
20-feb-19 Deepsea Atlantic	18:50	19:00	10	0 25,3 PREJOBMEETING - BRIEF/DEBRIEF		35/11-B-12 AH
20-feb-19 Deepsea Atlantic	18:00	18:50	50	0 31,41 PULL TUBING ON LANDINGSTRING		35/11-B-12 AH
20-feb-19 Deepsea Atlantic 20-feb-19 Deepsea Atlantic	17:10 17:00	18:00 17:10	50 10	0 38,01 CLEAN AND CLEAR RIGFLOOR 0 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Clean and clear rigfloor after SLS and umbillical are L/D to RCWM. 100 Debrif after PODH with SLS and umbillical.	35/11-B-12 AH 35/11-B-12 AH
20-feb-19 Deepsea Atlantic 20-feb-19 Deepsea Atlantic	16:00 13:30	17:00 16:00	60	0 31,41 PULL TUBING ON LANDINGSTRING 0 31.41 PULL TUBING ON LANDINGSTRING	100 Lay out SLS with umbilical on catwalk and transfer to riser deck.	35/11-B-12 AH 35/11-B-12 AH
20-feb-19 Deepsea Atlantic	13:30 12:45 12:30	13:30	45 38	IO 31,41 PULL TUBING ON LANDINGSTRING	100 Aker attempt to lock TH, nogo. Release THRT from TH.	35/11-B-12 AH 35/11-B-12 AH 35/11-B-12 AH
20-feb-19 Deepsea Atlantic 20-feb-19 Deepsea Atlantic	12:30 12:00	12:45 12:30	15 38 30 38	O 25,3 PREJOBMEETING - BRIEF/DEBRIEF O 31,41 PULL TUBING ON LANDINGSTRING	100 Decided to POOH with SLS.	35/11-B-12 AH 35/11-B-12 AH
					Decided to work with OP up to 260 ton on TH, in steps, Nogo. E-red valve closed @ 11:00 hrs, (12 hrs since opening). Line up from cementer down string for check E-red closed,	
					stoped pumping after 170 liter, (10-150 bar), teoretical volum to pressure up E-red: 38 liter. Indicated E-red still open. Walt for 30 minutes. Pressure up again with cementer, E-red	
20-feb-19 Deepsea Atlantic	10:00	12:00	120 38	10 31,41 PULL TUBING ON LANDINGSTRING	100 closed. Work with string, up to 170 ton OP on TH, while wait for decision. Pull up to 170 ton OP on	35/11-B-12 AH
20-feb-19 Deepsea Atlantic	09:00	10:00	60 38	0 31,41 PULL TUBING ON LANDINGSTRING		35/11-B-12 AH
					Unlock TH. Waited 10 min to allow lock ring to collapse and seal to relax. Pull tubing free	
					from XT. Strip out 0,4 m. Flowcheck 10 minutes. Open LAP. OP observed when attempt to pull TH 6,4 m to position lowest SLS sub in UAP. Retry several times up to max 260 ton block	
					weight. Sat down weight, attempt to establish circulation, pressure buildt up to 20 bar. Pull up to 260 ton hookload, pressure drop, establish circulation and observed return on triptank.	
20-feb-19 Deepsea Atlantic	07:15	09:00	105 38		Indicate TH pulled free. Aker circulate through THT, indicate TH free from. Work with weight 100 up to 170 ton OP on tubing	35/11-B-12 AH
20-feb-19 Deepsea Atlantic	07:00	07:15	15 38		100 Prejob meeting prior to pull tubing free.	35/11-B-12 AH
20-feb-19 Deepsea Atlantic 20-feb-19 Deepsea Atlantic	06:30	07:00	30 38		100 Set valve status prior to releasing and pulling TH according to Aker representativ. 300 Core circulate on kill and challe liver.	35/11-B-12 AH 35/11-B-12 AH
20-feb-19 Deepsea Atlantic 20-feb-19 Deepsea Atlantic	06:05 05:45	06:30 06:05	25 38 20 38	10 31,41 PULL TUBING ON LANDINGSTRING 10 6,41 FLOW CHECK	100 Cross circulate on kill and choke lines. 100 Stop pumping and performe a flow check: Well static.	35/11-8-12 AH 35/11-8-12 AH
					RIH on 5.7/8" HWDP landing string to above BOP. Install side entry stand. Install cement	
					hose on side entry sub. Make up Top Drive to landing string. Ventilate kill and choke lines, activate compensator. Establish circulation down string in steps to 1000 lpm / 3 bar. Wash	
					down to 1 m above. Stop pump pumps and ventilate string. Land THRT on TH and set down 10 ton. Perform 20 ton OP test on TH. Close kill and choke. Close lower annular. Line up to	
					circulate down string and return up choke line and poor boy degasser. Set valve status HKT for circulating down string and returns to annulus side. Start purpoing 1.12se bring down	
20-feb-19 Deepsea Atlantic	00:00	05:45	345 38	IO 31,41 PULL TUBING ON LANDINGSTRING	drillpipe. No pressure build up. Bleed off and line up to reverse circulate with return via side	35/11-B-12 AH

19-feb-19 Deepsea Atlantic	23:00	23:15	15	0	6,41 FLOW CHECK	100 Flowchock well for 10 m. Well static. Secure 1841 Will OMAR, Remone diffiling bushings. Test C-Pate in rotary, Verfly XT valve status according to bable. Manimalitie perform test applied failable to 150 bat 10 min. Close 858 Fressure up through 181 line to 10 bar. Contine pressure up against effect valve legic to 140 bar Held pressure for 12 min. Bleed back to 80 bar. Pumped in 84 L bleed back 37 L. Wait 10 min will 85 according mind several cope with any resure deposed to 10 bar. Copen.	35/11-B-12 AH
19-feb-19 Deepsea Atlantic 19-feb-19 Deepsea Atlantic	21:00 20:30	23:00 21:00	120 30	0	31,41 PULL TUBING ON LANDINGSTRING 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 BSR. 100 Pre-lob meeting prior to oull TH and upper completion.	35/11-8-12 AH 35/11-8-12 AH
9-feb-19 Deepsea Atlantic	18:15	20:30	135	0	31,2 RIG UP TUBING 25.3 PREJOBMEETING - BRIEF/DEBRIEF	100 P/U SLS and pull down AKER umbilical. Connect umbilical to SLS and test same	35/11-8-12 AH 35/11-8-12 AH
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	17:45	18:00	15	0	11 02 BIG LIP OR DOWN FOR WIRELINE	100 Debrief after R/D WL. Prejob meeting prior to P/U SLS and pull down AKER umbilical. 97 L/D toolstring and R/D WL equipment.	35/11-B-12 AH
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	17:30 16:00	17:45 17:30	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 11,03 WL OPERATIONS	100 Prejob meeting prior to L/D toolstring and R/D WL equipment. 97 RIH with THIS on WL.	35/11-B-12 AH 35/11-B-12 AH
reo-19 Deepses Abanic	16:00	17:30	30	0	11,03 WE OPERATIONS	POOH with THIS on WL due to AKER trouble with purge through PBT. Closed BSR. Line up for necessing down Kill line assisted rinced BSR Preceive in to 70 and 80 har on preceive reading	
-feb-19 Deepsea Atlantic	15:30 14:00	16:00 15:30	30 90	0	11,03 WL OPERATIONS 11.03 WL OPERATIONS	97 on WDCS. Bleed off pressure, open BSR. Decideed to RIH with THIS.	35/11-B-12 AH 35/11-B-12 AH
9-feb-19 Deepsea Atlantic 9-feb-19 Deepsea Atlantic	13:30	14:00	30	0	11,02 RIG UP OR DOWN FOR WIRELINE	97 RIH with THIS on WL, wait for AKER opening PBT and purge 10 ltr from WOCS. 97 R/U WL equipment. M/U THIS and toolstring.	35/11-B-12 AH
9-feb-19 Deepsea Atlantic 9-feb-19 Deepsea Atlantic	13:15 13:00	13:30 13:15	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Projob meeting prior to R/U and RIH with THIS on WL. 100 Clean and clear DF.	35/11-B-12 AH 35/11-B-12 AH
9-feb-19 Deepsea Atlantic	12:45	13:00	15	0	6,01 POOH CH	100 BOOH with 5 7/9" DB string from 250 m	35/11-B-12 AH
9-feb-19 Deepsea Atlantic	12:00	12:45	45	360	26,4 XMTTEST	Open up kill line and flowcheck against TTI. Open BSR and flowcheck, well static. Closed 100 ACV1 and open XOV. Closed AMV from WOCS. Open ACV2, equilae ACV2, open same and bleed off annulus. ROV closed ACV2. Pressure up	35/11-B-12 AH
9-feb-19 Deepsea Atlantic	11:25	12:00 11:25	35	360 360	26,4 XMT TEST 26.4 XMT TEST	100 to 10 bar, used 37 liter, E-red confirmed closed.	35/11-B-12 AH
9-feb-19 Deepsea Atlantic	10:25	10:25	145	360	26.4 XMTTEST	100 Observe for 12 hr to get a value to cook. Cement unit and pumpors pregare and min megiptime. Live up and displace KII line to Megiptime min. Pressure up to 30 bar agained closed choice. Open ASV. Pressure up to an annual as Side, Confirmed ASV open, pumped 513 lister from 101 201 bar. Belle down to 30 bar agained to 30 bar from 101 201 bar. Belle down to 30 bar for observed to 40 bar for a 40 bar and bar a	35/11-8-12 AH
9-feb-19 Deepsea Atlantic	07:30	08:00	30	360	25.3 PREJOBMEETING - BRIEF/DEBRIEF	Projob meeting with new crew prior to continue operation open E-red and check for pressure 100 below TH.	35/11-8-12 AH
						Aker to set valve status on HXT. Close BSR. Open upper and lower DHSV from WOCS. Open	
9-feb-19 Deepsea Atlantic 9-feb-19 Deepsea Atlantic	05:45 05:30	07:30 05:45	105 15	360 360	26,4 XMT TEST 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 AMV from WOCS and ACV1, ACV2 from ROV. 100 Prejobmeeting prior to open e-Red.	35/11-B-12 AH 35/11-B-12 AH
19-feb-19 Deepsea Atlantic	04:30	05:30	60	360	15,06 CONNECTOR TEST	Space out string 15 above 80P. Close shear ram and perform connector test 20/300 bar 100 5/10 min. 70ftr pumped an 69 in return.	35/11-B-12 AH
19-feb-19 Deepsea Atlantic 19-feb-19 Deepsea Atlantic	04:00 03:30	04:30	30 30	375 375	15,01 FUNCTION TEST BOP 6 RIH CH	100 Function test upper pipe ram, lower annular and upper annular. 100 RIH with open end 5 7/8 DP* from 18 m to 175 m.	35/11-B-12 AH 35/11-B-12 AH
9-feb-19 Deepsea Atlantic	01:30	03:30	120	18	5,02 DISPLACE WELL/RISER	100 Displace kill, choke, boost and riser to 1,12 Brine.	35/11-B-12 AH
19-feb-19 Deepsea Atlantic 19-feb-19 Deepsea Atlantic	01:15 01:00	01:30 01:15	15 15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 15,07 FUNCTION TEST DIVERTER	100 Prejob meeting prior to displace well to 1,12 Sg Brine 100 RIH with one stand 5 7/8" DP. Close diverter and pump through over board lines.	35/11-B-12 AH 35/11-B-12 AH
9-feb-19 Deepsea Atlantic	00:00	01:00	60	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT	100 Rig down riser RT cylinder on top drive. Install torque wrench.	35/11-B-12 AH
8-feb-19 Deepsea Atlantic	22:30	00:00	90	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT	100 Lay down diverter running tool and riser running tool. Remove spider and install rotary. 100 Pick up and install diverter.	35/11-B-12 AH
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	21:30 20:50	22:30 21:30	60 40	380	14,23 RUN, LP-RISER / DIVERTER 14,31 HANDLE LANDING JOINT	100 Pick up and install diverter. 100 Pull landing joint. Break out and lay down same.	35/11-B-12 AH 35/11-B-12 AH
.8-feb-19 Deepsea Atlantic .8-feb-19 Deepsea Atlantic	19:30 17:30	20:50 19:30	80 120	380 380	14,3 LAND BOP 24,98 MOVE RIG TO WELL/OFF WELL	Lower riser string and stroke out Endline sylinder 2 m. Start compensator. Adjust unbillica sheave in monopool and tension yo Pod Clamps, Rearranged landing loop befor landing 100 BPI. Land BDP @ 103 DNs. Lot will be beloom connector. Perform 50 no overpul stact. 97 Moor (if to well from site zone statiosard to well 8-12 Prepare and skid pod thewest to wellomer misk storm loop, Connect hoses to TII.	35/11-8-12 AH 35/11-8-12 AH
						Meanwhile pressuretest K/C to 20/345bar 5/10min. Meanwhile remove balcony on SSGT. Skid to park position. Transport SUF from deck to moonpool trolley. Install umbilical, GW #6	
8-feb-19 Deepsea Atlantic	15:00 14:30	17:30 15:00	150 30	380 380	14,32 INST./DISC. LOOPS/SHEAVES FOR HYDR. 14,26 INSTALL KILL, CHOKE, BOOST & COND.	100 on SUF	35/11-B-12 AH 35/11-B-12 AH
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	13:30	14:30	60	380	14,1 PREPARE & RIGGING IN MOONPOOL	100 Release gooseneck assy from STR, disconnect hoses on STR. land TJ in STR 100 Install STR to TJ.	35/11-B-12 AH
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	13:15 12:15	13:30 13:15	15 60	365 365	25,3 PREJOBMEETING - BRIEF/DEBRIEF 14,16 TELESCOPIC JOINT	100 Prejob meeting prior to install STR on cellerdeck. 100 Pick up TJ. Grease lugs and fill water in K/C.	35/11-B-12 AH 35/11-B-12 AH
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	12:00 10:40	12:15	15 80	330 340	14,11 PRESSURE TEST K&C LINES 14,11 PRESSURE TEST K&C LINES	100 Pressuretest K/C to 20/345bar 5/10min. 100 Pressuretest K/C to 20/345bar 5/10min.	35/11-B-12 AH 35/11-B-12 AH
8-feb-19 Deepsea Atlantic	09:30	10:40 09:30	70 15	340 260	14,19 RUN BOP WITH BUOYANG RISER	100 Cont. RIS with slick 75ft riserjoints. install pod clamps on each connection.	35/11-B-12 AH
8-feb-19 Deepsea Atlantic	09:15		15		14,11 PRESSURE TEST K&C LINES	100 Fill Kill and Choke line with seawater.	35/11-B-12 AH
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	08:30 07:00	09:15 08:30	45 90	230 230	14,1 PREPARE & RIGGING IN MOONPOOL 14,19 RUN BOP WITH BUOYANG RISER	100 Install suport wires between clamp on riserjoint no 9-10 and podwires on cellerdeck. 100 RIS with sitc.7 Sft riserjoints. Install pod clamps on each connection. RIS with 90 Privough spatch one. Set in spider and install next riser joint, Cont RIS. Install 100 umilical polar clamps on each connection.	35/11-8-12 AH 35/11-8-12 AH
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	04:45	07:00	135	127	14,19 RUN BOP WITH SLICK RISER 14,12 PREPARE TO RUN BOP	100 umiliCal polar clamps on each connection. Lift BOP and skid BOP trolley starboard. Install 2 x guidewires and RiS to 300 m. Prepare pod 100 hoses for running BOP.	35/11-8-12 AH 35/11-8-12 AH
6-160-19 Deepsea Abantic	03:30	04.45	/3	U	14,12 PREPARE TO NON BOP		
8-feb-19 Deepsea Atlantic	00:00	03:30	210	0	23,2 WOW SUB SEA EQUIPMENT	WOW. Meanwhile prepare for running BOP. Test Force equipment. Disconnect force cable. 1 100 sensor operative on Force equipment due to damage on rest of equipment. Pull debris cap on 8-12. Install dust cap on 8-13. Move rig to safe sone. Pull debris cap to surface. Meanwhile performed testing on Force equipment. Continue drop check on HR main	35/11-B-12 AH
17-feb-19 Deepsea Atlantic 17-feb-19 Deepsea Atlantic	23:00 22:00	00:00 23:00	60 60	0	25,1 ROV OPERATIONS 24,98 MOVE RIG TO WELL/OFF WELL	soriate. Assarante per formed ussing on Force equipment. Continue drop circle on the main 100 and sux. 97 Move rig to 8-12.	35/11-8-12 AH 35/11-8-12 AH
						Force technology to check and repair wellhead fatigue sensors on BOP. Meanwhile RIS with	
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	18:30 17:15	22:00 18:30	210 75	0	1 RIG UP AND TEAR DOWN. 14,2 PULL BOP	100 dust cap. Drop check on HR main and aux. 100 Skid BOP trolly to WC and land BOP on same. Set down weight of BOP.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	16:45 16:15	17:15 16:45	30 30	0 58	14,2 PULL BOP 14,1 PREPARE & RIGGING IN MOONPOOL	100 Pull BOP through splash sone, secure same with BOP guide trolley. 100 Prepare cellerdeck prior to pull BOP through splash sone.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic	15:00	16:15	75	58	14,2 PULL BOP WITH SLICK RISER	100 Pull BOP on slick riser from 127 meters to 58 meters 100 Continue pull BOP on boyant riser from 207 meters to 127 meters.	NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	13:10 12:50	15:00 13:10	110 20	127 207	14,2 PULL BOP WITH BUOYANG RISER 14,1 PREPARE & RIGGING IN MOONPOOL	nn Remove current stabilizing wire on riser joint.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	12:00 11:00	12:50 12:00	50 60	207 240	14,2 PULL BOP WITH BUOYANG RISER 14,2 PULL BOP WITH BUOYANG RISER	100 Continue pull BOP on boyant riser from 240 meters to 207 meters. 100 Pull BOP with boyant riser from 333 meters to 240 meters.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	10:45 10:15	11:00 10:45	15	333 342	14,29 RUN/PULL RISER PUP'S 14,16 TELESCOPIC JOINT	100 L/d 40 ft riser pup joint 100 L/d telescopic injut to RCWM and then to deck	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic	09:45	10:15	30	375	14,31 HANDLE LANDING JOINT	100 L/d bescope; point to KLWM and then to deck 100 L/d handling joint 100 Held prejob meeting prior to l/d handling joint, slip joint and pull BOP	NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic	09:30	09:45	15	375	25,3 PREJOBMEETING - BRIEF/DEBRIEF		NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic	07:15	09:30	135	375	14,15 PREPARE TO PULL BOP	100 tension ring to park position.	NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic	07:00	07:15	15	375	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Held prejob meeting with new crew prior to split tension ring and ggoseneck assy.	NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic 7-feb-19 Deepsea Atlantic	05:45 05:30 05:00	07:00 05:45 05:30	75 15 30	375 375 375	14,18 RIG UP BOP RUNNING EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF 14,4 DISC. BOP	100 Install balcony on trolley after rig in safe zone. Rig up for disconnecting split tension ring. 100 Prejobmeeting prior to rig up on cellardeck. 100 Disconnect BOP. Move rig 50 m safe sone. Deballast rig to 25 m draft.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic	02:30	05:00	150	0	14,24 PULL J.P-RISER /DIVERTER	Pick up diverter RT and regage name to diverter. P/U diverter and set in spider: clean seals: and put on protection. Disconnect and L/D diverter in RCWMI. Install Riser running tool. P/U 100 indiregipitar and make up same. Collaps intercharrel. Remove torque werent, install paid eye sub in RK-Elevator. Remove master buthing and adapter ring. Pick up spider and install zame in rotary. Start deballariling rig from 25 m draft	NO 35/11 B-13 HT3
7-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	00:00 23:45	02:30	150 15	0	14,18 RIG UP BOP RUNNING EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 to 23 m @ 02.30 hrs. 100 Projob meeting prior to rig up BDP equipment.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	23:45 23:15	23:45	15 30	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,01 POOH CH	100 POOH with let sub from 383 m to RKR Pick up doube on last std	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	22:00 21:45	23:15 22:00	75 15	383 370	5,01 CIRCULATE HOLE CLEAN 25,3 PREJOBMEETING - BRIEF/DEBRIEF	Pump Hi-vis soap through lift, choice and boost. Displace with SW 1,03 SG. Line up and pump 100 down string R m3 Hi-vis coap and diplace with 100 m3 SW. 100 Projob meeting prior to pump soap and wash BOP/Rizer RH with Make Jet sub on 10 stand 5 / 78° Prom RK8 to 383 m. Wash BOP and WH erea	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	21:15 20:15	21:45 21:15	30 60	370 0	6 RIH CH 11,02 RIG UP OR DOWN FOR WIRELINE	100 according to must ing displacement plan, prior disconnect of BPD. 97 Break out and lay down wire line string. Rig down wire line equipment. RIH and log 20° Cassing for ease. Perform preplo meeting prior to rig down wire line	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	17:30 17:00	20:15 17:30	165 30	0	11,01 WIRE LINE LOGGING 41.01 WAIT ON 3 PART	97 equipment and tool string. 97 Power shutdown on wireline winch. Check and repair.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	16:00	17:00	50 60	0	11,01 WIRE LINE LOGGING	97 RtH and log 20" casing for re-use	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	14:45	16:00	75	0	11,02 RIG UP OR DOWN FOR WIRELINE	Rig up WL equipment according to Odfjell Work Instruction. Pick up WL tool string and make 97 up same.	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	14:30	14:45	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob prior to RIH with wirw line to log 20" casing. Rack back jar and magnets in derrick. Remove XO 6 5/8" to 5 7/8". Install L/S and L/D 17	NO 35/11 B-13 HT3
	14:00 13:45	14:30 14:00	30 15	0 37	6,11 LAY DOWN BHA 6,83 POOH with BHA	100 1/2" skrape and bit to RCWIM. 100 POOH with 5 7/8" HWDP from 365 m to 37 m.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
	23.43	13:45	30	365	6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP with 20" drift BHA, rotate out do to tight WH and annular.	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	13:15		60	370	6,01 POOH CH	100 POOH from 857 meter to 370 meter Perform flowcheck. Well static. Take up/ down weight according to DOP 101 ton up and 96	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	12:15	13:15				100 ton down.	
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic		13:15	15	857	6,41 FLOW CHECK	RIH with cleanout BHA on 5 7/8" HWDP from 37 meters to 857 meters. Reduced speed due	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	12:15 12:00 11:00	12:15	60	857 857	6,07 RIH CH Reduced speed	RIH with cleanout BHA on 5 7/8" HWDP from 37 meters to 857 meters. Reduced speed due 100 to assy scraping casing wall.	NO 35/11 B-13 HT3
16-feb-19 Deepsea Atlantic 16-feb-19 Deepsea Atlantic 16-feb-19 Deepsea Atlantic 16-feb-19 Deepsea Atlantic 16-feb-19 Deepsea Atlantic 16-feb-19 Deepsea Atlantic 16-feb-19 Deepsea Atlantic	12:15 12:00 11:00 10:45	12:15 12:00 11:00	60 15	857 37	6,07 RIH CH Reduced speed 6,1 MAKE UP BHA	RIH with clasnous BH. on 5 //8" HWDP from 37 meters to 857 meters. Reduced speed due 100 to assysteping Gatiley will. 100 Male up and RIH with magnet assy to 37 meters. 100 Male up and RIH with magnet assy to 37 meters. Chaneled Benstris In 8K from 5 //8" to 5 //8". Pick up scrape assy from PCWM. Chanele back	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	12:15 12:00 11:00	12:15	60		6,07 RIH CH Reduced speed	RIH with cleanout BHA on 5 7/8" HWDP from 37 meters to 857 meters. Reduced speed due 100 to assy scraping casing wall. 100 Make up and RIH with magnet assy to 37 meters.	NO 35/11 B-13 HT3

						POOH with cement stinger on 5.7/8" DP from 857 m to 0 m. Slow trip because of trimming	
6-feb-19 Deepsea Atlantic	07:30	08:30	60	0	6,01 POOH CH	100 of rig after displacing well., L/d cement diverter sub NO 35	5/11 B-13 HT3
						Emty trip tansk and clean with base oil. Emty trip tanks for base oil and fill TT with SW. 100 Displace kill, choke and boost. Displace well accordig to displacement plan. NO 35	5/11 B-13 HT3
6-feb-19 Deepsea Atlantic	05:00	07:30	150	857	5,02 DISPLACE WELL/RISER		1/11 B-13 H13
6-feb-19 Deepsea Atlantic	03:30	05:00	90	857	5,01 CIRCULATE HOLE CLEAN	Insert sponge ball and start circulating 1X B/U and clean mud in return. @04:45 Clean mud 100 in return and stop pumping. Perform prejob meeting for displacing from 04:50. NO 35	5/11 B-13 HT3
						Pump 14,4m³ spacer 1,65sg using rig pump's with 2500lpm. set 50 bar behind IBOP. @02:15	
						Start pumping 25m ³ 1.95sg cmt with 7-800ipm. @03:00 close low torque valve on PIS. open bleed off on cmt unit and disconnect cmt hose. displace cmt with rig pumps. @03:15 Rack	
6-feb-19 Deepsea Atlantic	02:00	03:30	90	982	13,02 PUMP CMT	Install CMT stand. rig up 10m+5m cmt hose from cmt stand to cmt line. Performe	5/11 B-13 HT3
6-feb-19 Deepsea Atlantic	01:00	02:00	60	982	13 RIG UP AND DOWN CEMENT EQUIPMENT	100 100bar/Smin line test. NO 35 Rotating and circulating while RIH compensated inside 14" csg to kick off setting depth 1 std	5/11 B-13 HT3
6-feb-19 Deepsea Atlantic	00:00	01:00	60	982	5 CIRCULATE AND CONDITION MUD	100 above plug. Meanwhile performe prejob meeting prior to cmt job. NO 35	5/11 B-13 HT3
						RIH from 50m to 932m on 5 7/8" DP. Compansate through BOP. From 23:45 M/U TD to	
5-feb-19 Deepsea Atlantic	22:30	00:00	90	932	6 RIH CH		5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	22:00	22:30	30	50	6,1 MAKE UP BHA	From 22:00 to 22:15 Install X/O from 5" to 5 7/8" and change inserts in 8X to 5 7/8". From 100 22:15 RIH with 5" diverter sub and one 5 7/8" DP. Install 5 7/8" autoslips. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	21:00	22:00	60	0	6,33 CHANGE HANDLING EQUIPMENT	Move casing tong from Main wellsenter to Aux wellsenter. from 21:45 install inner bowls 100 and set 5" divertersub in manual slips. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	19:00 18:15	21:00 19:00	120 45	0	43,05 MAIN OPERATION IN OTHER WELL CENTER 38,01 CLEAN AND CLEAR RIGFLOOR	100 Lay down spear assy. Build CMT stand in aux. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	18:00	18:15	15	0	6,33 CHANGE HANDLING EQUIPMENT	100 Change to BX4. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	17:30 17:00	18:00 17:30	30 30	30	12,05 PULL CASING IN CASED HOLE 6,33 CHANGE HANDLING EQUIPMENT	100 Change to BX3 elevators. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	16:30	17:00	30	30	12,05 PULL CASING IN CASED HOLE	Release snear Install wire slines below dogrollar clarms. I/D out rasing inint with use of	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	16:00 15:45	16:30 16:00	30 15	50	12,19 LAY DOWN CSG STANDS 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 tugger to RCWM. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
						Install FMS: Transport FMS from aux rotary to main rotary by use of Hydraracker due to	
5-feb-19 Deepsea Atlantic	14:45	15:45	60	50	6,33 CHANGE HANDLING EQUIPMENT	100 Robot blocking normal tugger lifting route. Remove masterbushing and install FMS in rotary. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	14:30	14:45	15	50	12,11 RIG UP CASING/LINER EQUIPMENT	Remove slips and bushings. Pull 14" casing through rotary on spear assy. Install dog collar 100 on cut casing joint. NO 35	5/11 B-13 HT3
						Install 6 5/8"pupjoint on jar and L/D to RCWM. Install lifting subs on circ sub and powed section and L/D to RCWM. M/U dobbel 8" DC and rack back stand in derrick. Install XO 6	
5-feb-19 Deepsea Atlantic	12:30	14:30	120	0	6,11 LAY DOWN BHA	5/8" to 5 7/8" and singel 5 7/8" DP on ball drop sub. Install top drive to realese spear from 100 14" casine. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	12:15 12:00	12:30 12:30 12:15	120 15 15	92	6.33 CHANGE HANDLING EQUIPMENT	100 Change handling equipment to 6 5/8". NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	11:50	12:00	10	92 92	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6 RIH CH	100 Continue POOH with 14" spear/casing from 360 m to 92 m NO 35	5/11 B-13 HT3 5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	11:40 11:30	11:50 11:40	10 10	360 414	6,74 COMPENSATE THROUGH BOP 6,41 FLOW CHECK	100 Comp t/BOP with 14" spear/casing. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	11:00	11:30	30	414	6,01 POOH CH	100 POOH with 14" casing on 5 7/8" DP from 850 m to 414 m. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	10:50 10:40	11:00 10:50	10 10	850 850	6,04 PUMP SLUG 6,41 FLOW CHECK	100 Pump 1,70 sg slug 5 m2. 1,1 m2 in displacement. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
r 4-1 40 P	00.00	10		200	C 33 FNC4CC TOO DONLY AND	Engage top drive and land nogo in 14" cut with 5 ton. Engage spear, pull up to 20 ton OP and hold for 2 min. Pull up in steps to 44, 69 and 94 ton OP. Pull 14" casing free with 237 ton OP. 40.00 to 10.00 to 10.	F (44 D 43 :
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	09:50 09:25	10:40 09:50	50 25	889 875	6,23 ENGAGE TOP DRIVE AND LAND TOOLS 6 RIH CH		5/11 B-13 HT3 5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	09:15 08:55	09:25 09:15	10 20	414 360	6,74 COMPENSATE THROUGH BOP 6 RIH CH	100 Compensate through BOP with spear assy. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
					6,1 MAKE UP BHA	Pick up spear assy, 2 X 8" DC joint, power section, circ sub, drilling jar 2 stand 8" DC and X-	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	06:05 05:50	08:55 06:05	170 15	92 0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear rigfloor prior to next operation. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	04:40	05:50	70	0	6,73 POOH RISER	100 POOH, compensate throug BOP. NO 35 Record up/down 88/88ton weight. Activate compensator and land bore protector, set down	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	04:20	04:40	20	430	12,13 SEAL ASSY / WEAR BUSHING		5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	04:00	04:20	20	383	6,22 WASH DOWN	100 2000lpm prior to setting 18%" WB NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	02:05 01:55	04:00 02:05	115 10	350	6,82 RIH with BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Make up string and RIH with 18%" WB. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	01:45	01:55	10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Dehrief with crew after POOH with crear and 14" CSG NO.35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	00:55	01:45	50	0	6,33 CHANGE HANDLING EQUIPMENT	Change from casing equipment to 5 7/8" DP handling equipment. Remove FMS. Install 100 masterbushing ang inner bowls. Change from BX-3 to BX-4 elevator. NO 35	5/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	00:40 00:25	00:55 00:40	15 15	0	38,01 CLEAN AND CLEAR RIGFLOOR 12.05 PULL CASING IN CASED HOLE	100 Clean and clear rigfloor NO 35	5/11 B-13 HT3 5/11 B-13 HT3
5-feb-19 Deepsea Atlantic	00:00	00:25	25	0	12,05 PULL CASING IN CASED HOLE	100 Pull and B/O 14" std. Rack std in derrick. NO 35	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	22:30 21:30	00:00 22:30	90 60	0	12,05 PULL CASING IN CASED HOLE 12,11 RIG UP CASING/LINER EQUIPMENT	100 Change handling equipment & elevator: rig up for running 14" casing. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
						Break out and lay down bumper sub, single DP. Remove inner bushing and master bushing. Pull spear and 14 Hanger slowly throug rotary. Install 14" FMS. Set 14" casing in FMS. Break	
4-feb-19 Deepsea Atlantic	20:00	21:30	90	483	6,11 LAY DOWN BHA	100 out spear and lay down. NO 35	5/11 B-13 HT3
I4-feb-19 Deepsea Atlantic I4-feb-19 Deepsea Atlantic	19:45 18:50	20:00 19:45	15 55	501	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,11 LAY DOWN BHA	100 POOH with 14" casing on 5 7/8" HWDP from 360 m to spear is in rotary. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
I4-feb-19 Deepsea Atlantic	18:35	18:50	15	885	6,41 FLOW CHECK	100 Flow check trhough choke. Well static. Open upper annular. NO 35 Engage top drive and compensate to land stop sub in top of 14" casing. Set down 5 ton and	5/11 B-13 HT3
						engage spear according to Baker. Pull 10 ton overpull to confirm latch. Close upper annular and line up choke through poor boy degasser. Pull free 14" casing with 62 ton overpull, and	
14-feb-19 Deepsea Atlantic	18:20	18:35	15	885	6,23 ENGAGE TOP DRIVE AND LAND TOOLS	100 mill 1 m	5/11 B-13 HT3
						P/U spearassy, Baker to set spear in catsh, install bushings and slips. P/U singel 5 7/8" DP and bumper sub assy. Continue RIH with spear assy on 5 7/8" HWDP from 26 m to 360 m.	
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	17:15 17:00	18:20 17:15	65 15	360	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Held proint meeting prior to pick up spear assy NO 35	5/11 B-13 HT3 5/11 B-13 HT3
						Prepare Robot for service due to errors i software. Found Robot out of position due to install	
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	15:15 15:00	17:00 15:15	105 15	0	6,15 CHECK OF HANDLING EQUIPMENT 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Held debrief meeting after pull sealassy. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	14:30	15:00	30	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear rigfloor. Meanwhile flush kill/choke. NO 35	5/11 B-13 HT3
4.6-2.0 0	13:55	14:30		0	CAA AAV DOWN DIA	Remove slips and bushings, pull seal assy through rotary. Install bushings and slips, L/D MPT	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	13:30	13:55	35 25	49	6,11 LAY DOWN BHA 6,01 POOH CH	100 BOOK with coal area from 265 or to 48 or	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	13:20 13:05	13:30 13:20	10 15	365 390	6,74 COMPENSATE THROUGH BOP 6,41 FLOW CHECK	100 Comp t/BOP with seal assy. NO 35 100 Flow check. Well static. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	12:25	13:05	40	390	5 CIRCULATE AND CONDITION MUD	Pump 11 m2 baseoil, empty TT 1 to prepare for return of baseoil. Fill TT 2 with 1,38 sg OBM	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	12:25 12:15	13:05 12:25	40 10	390 390	5 CIRCULATE AND CONDITION MUD 6,41 FLOW CHECK	100 Flow check through choke. Well static. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	12:00	12:15	15	390	5 CIRCULATE AND CONDITION MUD		5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	11:20	12:00	40	430	5 CIRCULATE AND CONDITION MUD	Start circulating with constant standpipe pressure trhough choke. 1000 lpm/8 bar. Max gas	5/11 B-13 HT3
A 12 Después Atlantic	11:20	12:00	40	-30	3 CINCODATE AND CONDITION MUD		W = 1 B-13 H13
						Take up weight 132 ton. Space out MUT below annular, close annular w/open falisafe and choke. Pull 2 m up, 145 ton. Open annular and land MUT with 15 ton according to Aker. Close lower annular and reduce pressure. Pressure up DP to 100 bar. Pull up 1 m with closed	
						Close lower annular and reduce pressure. Pressure up DP to 100 bar. Pull up 1 m with closed annular and open choke, seal assembly realised 145 ton. Close choke and observe for	
						pressure build up. Pressure up to 195 bar to open circ sub. Pressure up until pressure	
4-feb-19 Deepsea Atlantic	10:00	11:20	80		12,13 SEAL ASSY / WEAR BUSHING	100 increase on choke. Stop circulation and read off pressure on standpipe 7 bar, choke 30 bar. NO 35	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	09:45 09:35	10:00 09:45	15 10	390 390	6,23 ENGAGE TOP DRIVE AND LAND TOOLS 6,74 COMPENSATE THROUGH BOP	100 Test Packoff according to Baker, 20 bar. Pressure Bleed off, stop pumping. Dropp 1 3/8" ball. NO 35 100 Compensate through BOP. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	09:35	09:35	20	365	6 RIH CH		5/11 B-13 HT3
						Remove bushings. P/U Dual Pack off BHA, install bushings and slips. RIH on 1 stand of 5 7/8*	
4-feb-19 Deepsea Atlantic	08:25	09:15	50	49	6.16 M/U Wired BHA	Remove bushings. P/U Dual Pack off BHA, install bushings and slips. RiH on 1 stand of 5 7/8" DP. P/U and install MPT, Aker to check tool. Remove slips and bushings, RiH through rotary, 100 install bushings and slips. P/U single HWDP from RCWM. NO 35	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	08:10	08:25 08:10	15 10	0	5,16 M/U WIRED BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF 38.01 CLEAN AND CLEAR RIGFLOOR		5/11 B-13 HT3 5/11 B-13 HT3 5/11 B-13 HT3
	08:00			U		Remove slips, bushings and wipers. Pull MUT/WB through, install bushings and slips. L/D WB	
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	07:25 06:45	08:00 07:25	35 40	0 20	6,17 L/D Wired BHA 6,08 POOH CH reduced speed	100 and MUT to RCWM. NO 35	5/11 B-13 HT3 5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	06:35	06:45	10	383	5,06 JET AROUND WELLHEAD	100 Space out and wash WH area for 10min. NO 35	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	06:25	06:35	10	400	6,08 POOH CH reduced speed		5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	06:15 05:50	06:25	10	429	6,1 MAKE UP BHA 5.06 JET AROUND WELLHEAD	100 Cont. RiH on 5 7/8" HWDP std to 429m. Tag WB and set down 10T NO 35	5/11 B-13 HT3
		06:15	25	400	***************************************		5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	04:45 04:35	05:50 04:45	65 10	380 35	6,1 MAKE UP BHA 6,33 CHANGE HANDLING EQUIPMENT		5/11 B-13 HT3 5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	04:20	04:35	15	35	6.1 MAKE UP BHA		5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	04:15	04:20	5	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Perform safety and prejob meeting with all involved personnel. NO 35	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	04:00	04:15	15	0	38,01 CLEAN AND CLEAR RIGFLOOR		5/11 B-13 HT3
4-feb-19 Deepsea Atlantic	03:45	04:00 03:45	15	0 50	6,11 LAY DOWN BHA 6,33 CHANGE HANDLING EQUIPMENT	100 Rack back last stand with DP. Inspect and clean cutter assy. Lay down same to deck. NO 35	5/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	03:25 02:25	03:25	20 60	50	6.01 POOH CH	100 POOH from 889m to 50m NO 35	5/11 B-13 HT3 5/11 B-13 HT3
	02:00	02:25	25	889	6,33 CHANGE HANDLING EQUIPMENT		5/11 B-13 HT3 5/11 B-13 HT3
4-feb-19 Deepsea Atlantic		02:00	76	889	6.04 PLIMP STUG		
14-feb-19 Deepsea Atlantic 14-feb-19 Deepsea Atlantic 14-feb-19 Deepsea Atlantic 14-feb-19 Deepsea Atlantic	01:35 01:25	02:00 01:35	25 10	889 889	6,04 PUMP SLUG 6,41 FLOW CHECK	100 Pump 4,5m3 1.705g slug and wait for slug to set. NO 35	5/11 B-13 HT3

14-feb-19 Deepsea Atlantic 14-feb-19 Deepsea Atlantic	00:45 00:35	01:15 00:45	30 10	889 948	6,08 PDOH CH reduced speed 6,41 FLOW CHECK	100 POOH wet from 948m to 889m. 100 Stop circulation and flow check well for 10 min. Well Static.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	00:00	00:35	35	948	12,3 CUT CASING	Position cutter @940mMD. Cut casing according to Baker representativ. Monitor pressure 100 for indication. Cut for Smin more after good indications.	NO 35/11 B-13 HT3
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	23:45 23:00	00:00 23:45	15 45	948 932	12,3 CUT CASING 6 RIH CH	100 M/U TD to string. Fill pipe with 1.38sg OBM. Position cutter @940mMD 100 RIH with 14" cutter BHA on 5 7/8" DP from 390 m to 932 m.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	23:00	23:45	10	390	6,74 COMPENSATE THROUGH BOP	100 KIH with 14" cutter BHA on 5 7/8" DP from 390 m to 932 m. 100 Compensate through BOP with 14" cutter BHA.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	22:30	22:50	20	365	6 RIH CH	100 RIH with 14" cutter BHA on 5 7/8" DP from 24 m to 365 m.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	22:15	22:30	15	24	6,1 MAKE UP BHA	100 Transfer 14" cutter assy from aux to main. P/U singel DP from RCWM. Install doper.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	22:00	22:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrif after PODH with EZSV running tool. Prejob prior to RIH with 14" cutter. 100 Clean and clear rigifloor prior to RIH with 14" cutter BHA.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	21:45	22:00	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear rigition prior to RIH with 14" cutter BHA. I /D singel DP remove springs from running tool install protector and I /D purpling tool to	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	21:30	21:45	15	0	6,11 LAY DOWN BHA	L/D singel DP, remove springs from running tool, install protector and L/D running tool to 100 RCWM.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	21:15	21:30	15	15	6,01 POOH CH	100 POOH with EZSV running tool from 365 m to 15 m.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	21:05	21:15	10 35	365 390	6,74 COMPENSATE THROUGH BOP 6.01 POOH CH	100 Compensate through BOP with EZSV running tool. 100 POOH with EZSV running tool from 980 m to 390 m.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	20:15	20:30	15	980	6,04 PUMP SLUG	100 Pump 5 m2 1,70 sg slug. Pitgain 1,1 m2.	NO 35/11 B-13 HT3
8-feb-19 Deepsea Atlantic	20:00	20:15	15	980	6,41 FLOW CHECK	100 Flow check. Well static.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	18:20	20:00	100	980	5.02 DISPLACE WELL/RISER	Line up and displace Kill/Choke and boost to 1,38 sg OBM. Line up and displace well to 1,38 100 sg OBM with 2500 lpm/40 bar 50 RPM.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	18:05	18:20	15	980	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting prior to displace well to 1,38 SG OBM.	NO 35/11 B-13 HT3
						Record up/down weight: 93/89 ton. Break circulation and circulate with 800 LPM/11 bar while reciprocate string 5 m strokes across setting area. Position EZSV 2 setting depth 987 r	_
						top plug). Contact Halliburton support. Sat EZSV with 36 turn RH. Stop rotation. Pull 8 ton/	"
						18 ton OP, hold each step for 2 min. Pull RT free from EZSV with 27 ton OP. Pull RT above	
3-feb-19 Deepsea Atlantic	17:30 16:55	18:05 17:30	35 35	987 987	12,88 SET/RELASE MECH PLUGS	100 and tag EZSV with 5 ton. 100 RIH with 14" EZSV plug with reduced speed from 390 m to 987 m.	NO 35/11 B-13 HT3
3 feb-19 Deepsea Atlantic 3 feb-19 Deepsea Atlantic	16:45	16:55	10	390	6,07 RIH CH Reduced speed 6,74 COMPENSATE THROUGH BOP	100 Compensate through BOP with 14" EZSV plug.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	16:15	16:45	30	365	6,07 RIH CH Reduced speed	100 RIH with 14" EZSV plug with reduced speed from surface to 365 m.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	15:15	16:15	60		6,16 M/U Wired BHA	P/U singel from RCWM, install XO and EZSV running tool. Install 14 EZSV plug to running 100 tool.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	15:00	15:15	15	0	25.3 PREJOBMEETING - BRIEF/DEBRIEF	100 Preiob prior to RIH with 14" EZSV plug	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	14:45	15:00	15	0	6,33 CHANGE HANDLING EQUIPMENT	100 Change handling equipment and install autodoper. 100 Perform Drops's inspecton of TD,TB and TDRD before handling BHA.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	14:15 14:00	14:45 14:15	30 15	0	25,22 DROP's Inspection 38.01 CLEAN AND CLEAR RIGHTOR	100 Perform Drops's inspection of TD,TB and TDRD before handling BHA. 100 Clean and tids BE Broaders for past operation.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	13:35	14:00	25	25	6,11 LAY DOWN BHA	100 Clean and tidy RF. Preapere for next operation. 100 Transfer BHA over to Aux rig. Download data from ontrack.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	13:15	13:35	20	25	6,14 TEST MWD	100 Engage DDM and pump down string to test cutters, after BH instructions. 100 Remove auto slips, masterbushing and wipers.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	13:00 12:40	13:15	15 20	25 25	6,33 CHANGE HANDLING EQUIPMENT 6,01 POOH CH	100 Remove auto slips, masterbushing and wipers.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	12:30	13:00	10	450	6,41 FLOW CHECK	100 Cont POOH with 5 7/8" DP from 450m-25m 100 Flowcheck. Ok	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	12:00 11:45	12:30 12:00	30 15	450	6,01 POOH CH 6,01 POOH CH	100 POOH with 5 7/8" DP from 1120m to 450m	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	11:45 11:30	12:00 11:45	15 15	1120 1487	6,01 POOH CH 6,04 PUMP SLUG	100 POOH with 5 7/8" DP 100 Pump 5m3 1,70sgslug	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	11:15	11:30	15	1487	6,41 FLOW CHECK	100 Flow check. Ok Meanwhile install wiper in rotary and remove pipedoper.	NO 35/11 B-13 HT3
						Start XLOT #2 Pump with constant rate and injekted with 21bar. Pump 2000iter-20bar bleed	
3-feb-19 Deepsea Atlantic	10:20	11:15	55	1487	15,05 LEAK-OFF / FIT TEST	100 of to 7bar 970liter in retur. Space out and close annular. Line up and pump down kill&choke and down DP.	NO 35/11 B-13 HT3
						Start XLOT Cycle #1	
						Pump 200liter 22bar Pumpand injekted total 1490liter 14bar stable pressure shut in for	
						30min. Open bleed of valve and flow back to 7bar.	
3-feb-19 Deepsea Atlantic	09:00	10:20	80	1487	15,05 LEAK-OFF / FIT TEST	Open cross of valve and flow back to /bar. 100 Close bleed of valve in 5 min, bleed of to 7 bar. Return volum: 570liter	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	07:15 07:00	09:00 07:15	105 15	1487 1487	5 CIRCULATE AND CONDITION MUD 6,41 FLOW CHECK	100 Circulate well 1BU. Condition mud according to Baker. Meanwhile perform line test 200bar. 100 Flowcheck well. OK	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	06:45	07:00	15	1487	12,3 CUT CASING	100 FlowCheck Well, UK 100 Cut 147 casing acc to Baker, 1200 lpm/28 bar, 100 RPM. 100 Position outter to cut @ 1483 m. Fill pipe.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	06:30	06:45	15	1487	6,07 RIH CH Reduced speed	100 Position cutter to cut @ 1483 m. Fill pipe.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	05:45 05:25	06:30 05:45	45 20	1450 1009	6,07 RIH CH Reduced speed 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Cont. RIH from 1009m to 1400m. Reduced speed due to cutter assy. 100 Debrief after trip so far, meanwhile fill pipe and empty TT	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
5-leb-19 Deepsea Abantoc	05:25	05.45	20	1009	25,3 PREJUDNICE IING - BRIEF/DEBRIEF	RIH with Casing cut BHA on 5 7/8" DP from 20 m to 1009 m. Reduced speed due to cutter	NO 35/11 B-15 H15
3-feb-19 Deepsea Atlantic	04:20	05:25	65 40	1009	6,07 RIH CH Reduced speed 6,1 MAKE UP BHA	100 assv.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	03:40	04:20	40	20	6,1 MAKE UP BHA	100 RIH with Casing out BHA from derrick, Baker rep connect cable. Pressure test shear ram with cement unit to 20 bar/5 min, 200 bar/10 min. Meanwhile	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	03:15	03:40	25	0	15 PRESS.TESTING OF CSG UNDER BOP TEST	100 preiob meeting prior to RIH with 14" Casing cut #2.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	03:00	03:15	15	0	15,01 FUNCTION TEST BOP	100 Function test shear ram acoustic from bridge and from drillfloor panel.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	02:45	03:00	15	0	38,01 CLEAN AND CLEAR RIGFLOOR		NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	02:00 01:50	02:45	10	36	6,83 POOH with BHA 6,01 POOH CH	100 POOH with 12 1/4" BHA. Rack back jar and assy 2. L/D Assy 1 to RCWM. 100 POOH with 12 1/4" tag assy from 365 m to 36 m.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	01:40	01:50	10	365	6,74 COMPENSATE THROUGH BOP 6,01 POOH CH	100 Compensate through BOP with 12 1/4" Tag assy. P/U singel from RCWM.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	00:30	01:40	70 15	400 1500	6,01 POOH CH 6.04 PUMP SLUG	100 POOH with 12 1/4" tag assy from 1500 m to 400 m.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	00:00	00:15	15	1500	6.41 FLOW CHECK	100 Pump 5 m2 1,70sg. 100 Flow check. Well static.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	23:15	00:00	45	1500	5,01 CIRCULATE HOLE CLEAN	100 Circulate B/U with 3500 LPM/ 100 bar. 60 /7 KNM.	NO 35/11 B-13 HT3
3 4-5-40 0 44041-	22:30	23:15	45	1514	2.3 DRILL CEMENT		NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	22:30	23:15	45	1514	2,3 DRILL CEMENT	100 cement @ 1514 m, stop rotation and retag with 10 ton. FIII pipe, break circulation and wash down from 1436 m to 1502 with 1000 LPM/20 bar, tag	NO 35/11 B-13 H13
2-feb-19 Deepsea Atlantic	22:10	22:30	20	1502	6,22 WASH DOWN	100 with 5 ton.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	21:50 21:35	22:10 21:50	20 15	1436 920	6 RIH CH 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 RIH with Tag cmt BHA on 5 7/8" DP from 920 m to 1436 m. 100 Debrief after trip on five Management TT and check on bandling equipment	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	21:25	21:35	10	920	6 RIH CH	100 Debrief after trip so far. Meanwhile empty TT and check on handling equipment. 100 RIH with Tag cmt BHA on 5 7/8" DP from 720 m to 920 m.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	21:15	21:25	10	720	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrief after trip so far. Meanwhile fill pipe.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	21:00 20:45	21:15 21:00	15 15	720 415	6 RIH CH 6,74 COMPENSATE THROUGH BOP	100 RIH with Tag cmt BHA on 5 7/8" DP from 415 m to 720 m. 100 L/D singel for space out. Compensate through BOP. P/U singel.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	20:30	20:45	15	365	6 RIH CH	100 RIH with Tag cmt BHA on 5 7/8" DP from 35 m to 365 m.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	20:00	20:30	30	35	6,1 MAKE UP BHA		NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	19:45 19:25	20:00 19:45	15 20	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 38,01 CLEAN AND CLEAR RIGFLOOR	100 Projects at a month extreme. Assay at a form on it. 100 Projects meeting prior to RiH with 12 1/4" BHA to tag top of cement. 100 Clean and clear DF.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	19:20	19:25	5	0	6,11 LAY DOWN BHA	100 L/D singel 5 7/8" DP to RCWM. R/B Jetsub stand. 100 POOH with Jetsub on 5 7/8" DP from 395 m.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	19:00	19:20	20	0	6,01 POOH CH	100 POOH with Jetsub on 5 7/8" DP from 395 m.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	18:45	19:00	15	395	6,11 LAY DOWN BHA	100 L/D BOPITT in RCWM POOH with BDPITT on 5 7/8" DP from 383m to surface. Reduced speed due to use of	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	18:00	18:45	45	395	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 mudbucket.	NO 35/11 B-13 HT3
						Pressure tested BOP to 20/345Bar-5/10min. With yellow POD.	
2-feb-19 Deepsea Atlantic	13:15	18:00	285	775	15,11 PRESSURE TEST BOP	Meanwhile: Pressure tested Auto Ibop/manual IBOP/ kellyhose. 20/3458ar-5/10min. Mount 100 Banana sheave with umbilical in derrick. Maintenance on TD.	t NO 35/11 B-13 HT3
						RIH with BOPITT on 5 7/8" DP from surface to 383m (BOPITT depth). Reduced speed. Lander	d
2-feb-19 Deepsea Atlantic	12:40	13:15	35	775	6,75 TRIPPING RISER WITH FULL BORE TOOLS	100 in WH.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	12:20	12:40	20	390	6,1 MAKE UP BHA	100 P/U BOPITT. Aker subsea inspected same. Removed bushings and guided through rotary.	NO 35/11 B-13 HT3
Despite Australia	11.10	11.70	-10	330	a, a seek or more		33/22 0-23 1113
34-10 0		12-25		205	COC IET ADDINO ME	Continued Wash BOP and WH area with 3000lpm/30Bar and boost riser with 1000lpm.	NO 35 (44 5
2-feb-19 Deepsea Atlantic	12:00	12:20	20	385	5,06 JET AROUND WELLHEAD	100 Reciprocated string with 15 Rpm up and down several times. Pumped total 4000strokes.	NO 35/11 B-13 HT3
						Engage DDM. Wash BOP and WH area with 3000lpm/30Bar and boost riser with 1000lpm.	
2-feb-19 Deepsea Atlantic	11:40 11:00	12:00 11:40	20	385	5,06 JET AROUND WELLHEAD 6 RIH CH	100 Reciprocated string with 15 Rpm up and down several times. Pumped total 4000strokes. 100 RIH with jetsub on 5 7/8" DP from surface to 385m	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	10:45	11:40 11:00	40 15	385	6,33 CHANGE HANDLING EQUIPMENT	100 Change handling equipment to 5 7/8" in slips and elevator.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	10:30	10:45	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Change handling equipment to 5 7/8" in slips and elevator. 100 Clean and clear rigifloor.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	10:20	10:30	10	0	6,11 LAY DOWN BHA	100 Inspect EZSV RT, and lay down same.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	09:25	10:20	55	4	6,01 POOH CH	100 POOH with 3 1/2" DP from 350m to 4m Reduced speed due to racking off 3 1/2" DP.	NO 35/11 B-13 HT3
						Remove masterbushing and install wiper. 100 Change to 3 1/2" slips and 3 1/2 inserts in elevator. Remove XO.	
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	09:00 08:00	09:25 09:00	25 60	350 350	6,33 CHANGE HANDLING EQUIPMENT 6,01 POOH CH	100 Change to 3 1/2" slips and 3 1/2 inserts in elevator. Remove XO. 100 POOH with 5 7/8" DP from 1495m to 350m	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	07:45	08:00	15	1495	6,04 PUMP SLUG	100 Pumped 5m3 1,70	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	07:30	07:45	15	1495	6,41 FLOW CHECK	100 Flow checked well static 10min. OK	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	06:15	07:30	75	1495	5,01 CIRCULATE HOLE CLEAN	100 Install 1 x sponge ball in string, circulate with 2500 LPM/108 bar. Total pumped 7800strokes	NO 35/11 P 42 UT2
2-feb-19 Deepsea Atlantic	05:45	06:15	30	1495	6,08 POOH CH reduced speed	200 Install 1 x sponge usin in suring, circulate with 2500 LPM/108 bar. Total pumped 7800strokes 100 POOH to above cement plug, with reduced speed, from 1765 in to 1495m.	NO 35/11 B-13 HT3
			-				
						Pump 12,4 m3 1,65 Sg spacer with 2500 LPM. Sat 50 bar behind KC on TD. Open to-tourge	
2-feb-19 Deepsea Atlantic	04:30	05:45	75	1765	13,02 PUMP CMT	valve on cement stand. Mix and pump 21,5 m² 1,93 Sg standard cement slurry with 750 100 LPM. Start mixing@ 05:00 hrs. Displace cement with 1,38 Sg WBM, 2500 LPM.	NO 35/11 B-13 HT3
						R/B one stand, transfere cement stand from AUX WC, install cement stand. Posetion string 5	5
2-feb-19 Deepsea Atlantic	03:45	04:30	45	1770	13 RIG UP AND DOWN CEMENT EQUIPMENT	meter above EZSV plug @ 1770 m (top plug). Connect cement hose. Perform linetest from 100 cement unit against closed lo-tourge on cement stand to 100 bar/ 5 minutes.	NO 35/11 B-13 HT3
						M/U cement stand in AUX WC. Meanwhile circulate with 2500 LPM/100 bar, 50 RPM/5	
2-feb-19 Deepsea Atlantic	03:15	03:45	30	1770	43,05 MAIN OPERATION IN OTHER WELL CENTER 25.3 PREIORMEETING RRIFE/DERRIFE	100 KNM.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	03:00	03:15	15	1770	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting prior to cement job. Establish circulation 2500 LPM/100 bar, 50 RPM/5 KNM. Meanwhile M/U cementstand in	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	02:50	03:00	10	1770	5 CIRCULATE AND CONDITION MUD	Establish circulation 2500 LPM/100 bar, 50 RPM/5 KNM. Meanwhile M/U cementstand in 100 AUX.	NO 35/11 B-13 HT3
	22.50		10				
						Connect TD. Fill string. Record up/down weight: 115/100 ton. Circulate with 800 LPM/27	
						bar, reciprocate across setting area 3 times. Stop pumping. Rotate 36 turn RH to set EZSV plug. Release setting tool, pull 8ton OP, 18 ton OP, hold each step 2 minutes. Pull free with 2	3
	02:10	02:50	40	1770	12,88 SET/RELASE MECH PLUGS	100 ton OP. Run in and tag top of plug 1770 m with 5 ton.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	01:00	01:15	15	1000	8.01 MECHANICAL REPAIRS	Change dies in IR.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic	01:00	02:10	70	1770	6,07 RIH CH Reduced speed	100 RIH with EZSV plug on 5 7/8" DP from 1000 m to 1770 m . Runningspeed 0,5 m/s.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic	00:45	01:00	15 45	1000	6,4 FILL PIPE 6,07 RIH CH Reduced speed	100 Fill pipe and break circulation. 100 RIH with EZSV plug on 5 7/8" DP from 500 m to 1000 m. Runningspeed 0,5 m/s.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic		00:00		500		100 KIH with E25V prug on 5 7/8" DV from 500 m to 1000 m . Kunningspeed 0,5 m/s. 100 Fill pipe and break circulation.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	23:45		15				
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	23:45 23:20	23:45	25	500	6,07 RIH CH Reduced speed	100 RIH with EZSV plug on 5 7/8" DP from 350 m to 500 m . Runningspeed 0,5 m/s.	NO 35/11 B-13 HT3
2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 2-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	23:45 23:20 23:10	23:45 23:20	25 10	500 350	6,07 RIH CH Reduced speed 6,33 CHANGE HANDLING EQUIPMENT	100 RIH with EZSV plug on 5 7/8" DP from 350 m to 500 m . Runningspeed 0,5 m/s. 100 Change to 5 7/8" handling equipment. Install XO.	NO 35/11 B-13 HT3
12-feb-19 Deepsea Atlantic 12-feb-19 Deepsea Atlantic 12-feb-19 Deepsea Atlantic 12-feb-19 Deepsea Atlantic 12-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic	23:45 23:20	23:45	25	500	6,07 RIH CH Reduced speed	100 RIH with EZSV plug on 5 7/8" DP from 350 m to 500 m . Runningspeed 0,5 m/s.	

11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic	20:45 20:30	21:00 20:45	15 15	0	25,3 1	HANGE HANDLING EQUIPMENT REJOBMEETING - BRIEF/DEBRIEF	100	Change to 3 1/2" handling equipment. Debrief after trip OOH. Prejob prior to M/U EZSV plug to running tool. Remove slips and innerbushing. POOH with Cut 14" BHA, connect cable to ontrack and	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	19:30 19:05	20:30 19:30	60 25	25		AY DOWN BHA OOH CH	100	download data. R/B BHA in derrick. POOH with 5 7/8" DP from 431 m to 25 m.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic	18:50 17:55	19:05 18:50	15	431 431	6,41 8	LOW CHECK OOH CH	100	Flowcheck with BHA below BOP, well static.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	17:55	18:50 17:55	55 25	1775	6,04 1	UMP SLUG	100	POOH with 5 7/8" DP from 1775m to 431m Pump 1,70sg slug.	NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic	17:15	17:30	15	1775	6,41 1	LOW CHECK	100	Flow check, ok	NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic	16:30	17:15	45	1775	15,05	EAK-OFF / FIT TEST		Start XLOT #2 Pump with constant rate to 350liter-53bar. Pump 1350liter-53bar bleed of to 8bar 727liter in retur.	NO 35/11 B-13 HT3
								Space out and close upper annualr. Start XLOT Cycle #1 Pump 650liter then leek off from 117bar to 50. Pump total 1650liter, stable pressure 51bar, stop pump and shut in for 30min. Pressure go from 51bar to 48bar.	
11-feb-19 Deepsea Atlantic	15:00	16:30	90	1775	15.05 (EAK-OFF / FIT TEST	100	Open bleed of valve and flow back to 10bar. Close bleed of valve in 5 min, bleed of to 10 bar. Return volum: 623liter	NO 35/11 B-13 HT3
						FAK-OFF / FIT TEST		Flush kill/choke with 1,38sg WBM. Line up to pump down kill/choke and DP, verify line up	
11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic	14:15 12:50	15:00 14:15	45 85	1775 1782		EAK-OFF / FIT TEST IRCULATE HOLE CLEAN	100	against closed valves. Circulate the well 18U clean 2000lpm-80bar.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic	12:40	12:50	10	1782	6,41	LOW CHECK	100	P/U 4m, flow check well. Ok	NO 35/11 B-13 HT3
11-feb-19 Deepsea Atlantic	12:00	12:40	40	1786		LUT CASING		Record application weight 12/20x/15/04/05. Record could be out of \$2.1722 in MID. Monitor precisive dosely for indication of cut. 1000pm - 202m - 1000pm - 302m - 1000pm - 1000	NO 35/11 B-13 HT3
11-feb-19 Deepsea Atlantic	11:35	12:00	25	1736	6,4 8	ILL PIPE	100	Filled pipe. Slow filling, TD not connected due to Cutter in BHA.	NO 35/11 B-13 HT3
11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic	11:15 10:30	11:35 11:15	20 45	1736 1500		IH CH ILL PIPE	100	Continue RIH with cutter on 5 7/8" from 1500m to 1736m Filled pipe. Slow filling. TD not connected due to Cutter in BHA.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
11-feb-19 Deepsea Atlantic	09:15	10:30	75	1500	6 8	IH CH	100	Filled pipe. Slow filling, TD not connected due to Cutter in BHA. Continue RIH with cutter on 5 7/8" from 772m to 1500m	NO 35/11 B-13 HT3
11-feb-19 Deepsea Atlantic 11-feb-19 Deepsea Atlantic	08:55 07:25	09:15 08:55	20 90	772 772		ILL PIPE IH CH	100	Filled pipe. Slow filling, TD not connected due to Cutter in BHA. RIH with cutter on 5 7/8" DP from 24m to 772m	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
								Change out taper mill from 12 3/4" to 12 1/4". Remove 5 7/8" pup joint from cutter assy an XO from ontrak do to different threads then the drawing from Baker. M/U Assy 1, and	
1-feb-19 Deepsea Atlantic	04:45	07:25	160	24	6,1 1	MAKE UP BHA	100	ontrak. Connect to on-track and set battery back ON. RIH from surface to 24m	NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic	04:30	04:45	15	0	25.3	REJOBMEETING - BRIEF/DEBRIEF	100	Prejob meeting prior to RIH with Cut 14" Csg BHA. Meanwhile pressure up well against cmt plug and shear ram to 100 bar/5 min/ 538 liter.	NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic	04:20	04:30	10	0	11,02 8	IG UP OR DOWN FOR WIRELINE	97	Rid WL equipment. POOH and L/D WL toolstring.	NO 35/11 B-13 HT3
1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	03:45	04:20 03:45	35 15	0	11,02	IG UP OR DOWN FOR WIRELINE REJOBMEETING - BRIEF/DEBRIEF	97	POOH and L/D WL toolstring. Prejob meeting prior to R/D WL toolstring and WL equipment.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
								RIH with wireline toolstring and log formation bonding og GC outside 14" csg. Meanwhile	
1-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	00:00 19:15	03:30	210 285	0	11,01 1	VIRE LINE LOGGING VL OPERATIONS	97	test standpipemanifold to 20/345 bar for 5/10 min. Test #1 to test #7. RIH with wireline toolstring and log formation bonding og GC outside 14" csg.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
								Install padeyesub in elevator and rig WL equipment according to Odfjell work instruction.	
10-feb-19 Deepsea Atlantic 10-feb-19 Deepsea Atlantic	18:15 18:00	19:15 18:15	60 15	0	11,02	IG UP OR DOWN FOR WIRELINE REJOBMEETING - BRIEF/DEBRIEF		P/U WL tool string and make up same.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	17:45	18:00	15	0	38,01 (LEAN AND CLEAR RIGFLOOR	97 100	Projobmesting prior to rig up wireline. Clean and tidy driffloor. Rack back top of BHA in derrick, L/D bit in RCWM.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	17:10	17:45	35	0	6.1 1	MAKE UP BHA	100	Rack back top of BHA in derrick, L/D bit in RCWM. Remove wiper from masterbushing.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	17:00 16:40	17:10 17:00	10 20	36	6,1 I	HANGE HANDLING EQUIPMENT MAKE UP BHA	100	POOH with Scrape on 5 7/8" HWDP.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	16:30	16:40	10	406	6,74	OMPENSATE THROUGH BOP	100	L/D 5 7/8" DP sgl and comp through BOP with BHA	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	16:10	16:30	20	416	6,08 1	OOH CH reduced speed	100	Cont. POOH with Scrape on 5 7/8" DP. POOH with reduced speed due to risk of oval casing.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	16:00	16:10	10	870	6,41	LOW CHECK		Flow check well.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	15:00	16:00	60	870	6,08 1	OOH CH reduced speed	100	POOH with Scrape on 5 7/8" DP. RIH with reduced speed due to risk of oval casing.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	14:25 14:10	15:00 14:25	35 15	1980 1980		UMP SLUG LOW CHECK	100	POOH with Scrape on 5 7/8" DP. RIH with reduced speed due to risk of oval casing. Pump slug 5m ³ 1,70sg. Displaced slug with 2 m ³ 1,38sg WBM Flow check well. Ok. Meanwhile install wiper in rotary.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
	27.10				0,41			Record up/down weight 140ton/114ton	,
								Go down and tag casing @ 2000m MID set down Ston. Establish circulation and increase to 4000lpm/118bar 60RPM/8-10kNm. Total pumped 1 B/	U
0-feb-19 Deepsea Atlantic	13:15	14:10	55	2000	5,01 (IRCULATE HOLE CLEAN	100	8900STK reciprocate string while pumping.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	13:00	13:15	15	1970	6,4 1	ILL PIPE	100	Fill pipe with 1,38sg WBM	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	12:00	13:00	60	1970		IH CH Reduced speed	100	Cont RiH with Scrape on 5 7/8" DP. RiH with reduced speed due to risk of oval casing.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	11:20 11:15	12:00 11:20	40	1070 416	6,3 (IH CH /U DRILLSTRING		Cont RIH with Scrape on 5 7/8" DP P/U 1 sgl 5 7/8" DP from RCWM.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	11:05	11:15	10	407	6,74	OMPENSATE THROUGH BOP	100	Compensate through BOP. P/U and M/U cleanout/drift assys from deck. Baker representative present on DF while	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	08:15 08:00	11:05 08:15	170	370		NAKE UP BHA REJOBMEETING - BRIEF/DEBRIEF	100	Continue in on 5 7/8" HWDP	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	08:00 07:15	08:15 08:00	15 45	0	12,11	IG UP CASING/LINER EQUIPMENT	100 100	Debrief after transfering CSG tong - Prejob before BHA. Transfer OWS casing tong from Main to Aux with HR.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	07:00	07:15	15	0	25,3 1	REJOBMEETING - BRIEF/DEBRIEF	100	Prejobmeeting prior to transfer OWS casing tong from Main to Aux with HR.	NO 35/11 B-13 HT3
								Debrief after POOH with 10 3/4" casing.	
10-feb-19 Deepsea Atlantic 10-feb-19 Deepsea Atlantic	06:45 06:30	07:00 06:45	15 15	0	25,3 1	REJOBMEETING - BRIEF/DEBRIEF HECK OF HANDLING EQUIPMENT	100	Meanwhile P/U assy 1,2,3 and 4 for scrape and drift run from basket on riser deck to RCWN Check of handling equipment after POOH with 10 3/4" casing.	I- NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
10-feb-19 Deepsea Atlantic	06:10	06:30	15 20	0	38,01 (LEAN AND CLEAR RIGFLOOR	100	Clean and clear rigfloor.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	05:50 05:00	05:10 05:50	20 50	0	12,13 5	EAL ASSY / WEAR BUSHING EAL ASSY / WEAR BUSHING	100	POOH with wash std, and rack back in derrick. POOH with MUT from 430 to 30m. L/D MUT to RCWM.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
								RIH and land WB in WH. Set down 10t. Pull up and shear-out @ 9t OP. Re land to verify WB	
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	04:45	05:00 04:45	15 30	430 491		EAL ASSY / WEAR BUSHING IRCULATE HOLE CLEAN	100	are locked. Wash WH area with 2500lpm- 25bar. Boost riser with 1500lpm.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	03:45	04:15	30	360	12,13 5	EAL ASSY / WEAR BUSHING	100	RIH w/ WR on 5.7/8"HWDP from 30m to 360m	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	03:15 03:00	03:45 03:15	30 15	30 0	12,13 9	EAL ASSY / WEAR BUSHING REJOBMEETING - BRIEF/DEBRIEF	100	Pick up wash std, MUT and WB. Aker to check and install same. Debrief after POOH with 10 3/4" casins. Preiob prior to RiH with 14" WB.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	02:30	03:00	30	0		LEAN AND CLEAR RIGFLOOR	100	Debrief after POOH with 10 3/4" casing, Prejob prior to RIH with 14" WB. Clean and clear rigfloor prior to RIH with 14" WB.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	02:05	02:30	76	0		IG DOWN CASING/LINER EQUIPMENT		L/D 10 3/4" cut-of singel to RCWM. Remove FMS, change elevator from BX3 to BX4, and L/E to RCWM.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic	00:30	02:05	95	0	12,05 (ULL CASING IN CASED HOLE	100	POOH with 10 3/4" tie-back from 950 m to surface.	NO 35/11 B-13 HT3
0-feb-19 Deepsea Atlantic 0-feb-19 Deepsea Atlantic	00:15	00:30 00:15	15 15	950 950	6,06 8	ILL TRIP TANK ULL CASING IN CASED HOLE			NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
9-feb-19 Deepsea Atlantic	22:45	00:00	75	1285	12,05	ULL CASING IN CASED HOLE	100	POOH with 10 3/4" tie-back from 1285 m to 950 m. POOH with 10 3/4" tie-back from 1660 m to 1285 m.	NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic 19-feb-19 Deepsea Atlantic	22:00 21:30	22:45 22:00	45 30	1660 1660	12.11	IG UP CASING/LINER EQUIPMENT AND/ PULL CSG ON LANDING STRING	100	Install FMS. B/O and L/D 10 3/4" Cse hanger to RCWM.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic	21:10	21:30	20	1668	12,11	IG UP CASING/LINER EQUIPMENT	100	Change to BX-3. Install 10 3/4" inserts. P/U FMS from RCWM.	NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic	20:35	21:10	35	1668	12.14	AND/ PULL CSG ON LANDING STRING	100	POOH and L/D bumper assy, L/D singel 5 7/8" DP. Pull up 10 3/4" hanger, release spear from hanger and L/D to RCWM.	n NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic 19-feb-19 Deepsea Atlantic	20:20 19:30	20:35 20:20	15 50	1680 1680	25,3 1	REJOBMEETING - BRIEF/DEBRIEF AND/ PULL CSG ON LANDING STRING	100	Prejob meeting for L/D spear Assy. R/U Csg equipment and L/D 10 3/4" Csg hanger. POOH with 10 3/4" tie-back on 5 7/8" HWDP from 2033 m to 1688 m.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic	18:45	19:30	45	2033	12,14	AND/ PULL CSG ON LANDING STRING	100	POOH with 10 3/4" tie-back on 5 7/8" HWDP from 2033 m to 1688 m. Took weight at UAP, work throught. Max 20 ton OP.	NO 35/11 B-13 HT3
								Took weights prior to engage Spear, 86T-Up and Down. Run in and land stopsub on top off casing, sat down ST @ 383, 7m (stopsub-depth) Pull casing free with 202T HKL. Pulled up to 376m took weight, tried several times not able to pass. Hooked in LPR. Optimise rig over center. Started to circulate/Jubricate down XIII and Choke line with 600[pm].48ar. After	
19-feb-19 Deepsea Atlantic 19-feb-19 Deepsea Atlantic	17:15 16:30	18:45 17:15	90 45	390 390	12,14 (AND/ PULL CSG ON LANDING STRING IH with BHA	100	several attempts we managed to slide through. RIH with Spear assy. On 5 7/8"HWDP from 27m to 390m	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
					-,			P/U spear, BH inspected same and sat spear in catch. P/U sgl DP for spaceout and P/U	
9-feb-19 Deepsea Atlantic 9-feb-19 Deepsea Atlantic	16:00 15:45	16:30 16:00	30 15	27	25.3.1	MAKE UP BHA REJOBMEETING - BRIEF/DEBRIEF	100	Bumper sub. Made up same. RIH from surface to 27m Preiob meeting prior to RIH with Spear assy.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic	15:30	15:45	15	0	12,11	IG UP CASING/LINER EQUIPMENT LEAN AND CLEAR RIGFLOOR	100	Lift up and prepare manual slips in main prior to handling hanger in rotary.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
9-feb-19 Deepsea Atlantic 9-feb-19 Deepsea Atlantic	15:00 14:30	15:30 15:00	30 30	0	12,13 5	EAL ASSY / WEAR BUSHING	100	L/D MPT and Pack Off assy.	
19-feb-19 Deepsea Atlantic	14:14	14:30	16	60	25,3 1	REJOBMEETING - BRIEF/DEBRIEF	100	Prejob meeting prior to handle MPT/Seal assy/ Pack off and L/D same to deck. POOH with MPT from 383m to 60m Reduced speed due to fullbore tool. And use off Mud	NO 35/11 B-13 HT3
9-feb-19 Deepsea Atlantic	12:30	14:14	104	60	12,13	EAL ASSY / WEAR BUSHING	100	POOH with MPT from 383m to 60m Reduced speed due to fullbore tool. And use off Mud bucket.	NO 35/11 B-13 HT3
								RIH with MPT from 60m to 383m. Engaged TD put 100Bar Down string, run in and sat down 10 ton. Pulled up, no overpull seen. Reduced speed due to fullbore tool.	
9-feb-19 Deepsea Atlantic	12:00	12:30	30	383		EAL ASSY / WEAR BUSHING	100	10 ton. Pulled up, no overpull seen. Reduced speed due to fullbore tool. Aker dropped 2" Ball in string. Engage TD and numn down string to verify tool is in unper-	NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic	11:30	12:00	30	60	12,13 5	EAL ASSY / WEAR BUSHING	100	Aker dropped 2" Ball in string. Engage TD and pump down string to verify tool is in upper position, and "catch" ring is in outer position.	NO 35/11 B-13 HT3
19-feb-19 Deepsea Atlantic	10:45	11:30	45	60	12.13	EAL ASSY / WEAR BUSHING	100	Inspected MPT no seal assy latched on MPT, wait on further instruction. Decided to re-run MPT.	NO 35/11 B-13 HT3
			~					POOH with Spear and MPT. from 430m to 60m reduced speed due to fullbore tool and seal	
09-feb-19 Deepsea Atlantic 09-feb-19 Deepsea Atlantic	09:45 09:30	10:45 09:45	60 15	60 430		EAL ASSY / WEAR BUSHING LOW CHECK	100	assembly latched on. Flowchecked well 10min static.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
, and the second	23.30				-0,41	-		Productions were summission. Decided to got that Spring in a MRT below LAP and pressure up to 100 har down string to other for communication, observed pressure increase on observantional Establish circulation with the consumer pressure increase on observantional Establish circulation with consumer Spring increase in the Consumer Spring increase with a 400 µPs Neveral part of throndory, Circulated total efforts annually to Englaced Kill/Choke Innex to DW with commenter Opin annuals and United back. Kill and choke line the repout Choke amadiolist, Start circulated Springship sources are supported to the constitution of the consumer summission of the consumer sum	k
09-feb-19 Deepsea Atlantic	04:15	09:30	315	430	12,13	EAL ASSY / WEAR BUSHING	100	2001pm/208ar-3001pm/308ar. Start establish circulation with constant BHP. Pressure increase in drillstring, no pressure increase on chokemanifold. Bleed off on chokemanifold to check for comunication, no	NO 35/11 B-13 HT3
								pressure decrase on DP pressure. Pressure on chokemanifold drop to 10 bar, no increase in	
09-feb-19 Deepsea Atlantic	02:30	04:15	105	430	42.42.4	EAL ASSY / WEAR BUSHING	100	pressure when close choke. Discuss further operation with senior personel.	NO 35/11 B-13 HT3

39-feb-19 Deepsea Atlantic	00:45	02:15	90	430	12,13 SEALASSY/WEAR BUSHING	Connect TD. Compensate through BGP and position rup stade in 10 3/4" to-bask. Test packet, pressure up 5 to 4 from string, monitor TT for truths. Bleed off pressure. Drop 1 3/6" bill for footing or cus in. Install trust accide content. The could you wow wight prior to close LPP and perform stripters. Upweight: 114 ros, down-weight: 84 ton. Close LPP and reheated closing generate to 1909. Place close upweight with orders. Place 100 pen annular, Lace MPF, at the one landingstrips weight. Close LAP with reduced pressure, 500 PS-55, still 0.0 are count using. Test and under this members up though closinate to close the country of the content of the country of the country of the content of the country of the content of the country of th
19-feb-19 Deepsea Atlantic	00:00	00:45	45	367	12,13 SEAL ASSY / WEAR BUSHING	100 RIH with Swad cup BHA and MPT on 5 7/8" HWDP from 60 m to 367 m. NO 35/11 B-13 HT3 P/U swab cup BHA. RIH with one stand 5 7/8" DP. P/U MPT from RCWM. Aker check and
I8-feb-19 Deepsea Atlantic	23:10	00:00	50	60	12.13 SEAL ASSY / WEAR BUSHING	remove protection. Remove and install innerbushing and slips to run MPT through rotary.
8-feb-19 Deepsea Atlantic	23:00	23:10	10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Debrief after pull WB. Prejob meeting prior to RIH and Pull SA. NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	22:50	23:00	10	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear DF. NO 35/11 B-13 HT3 L/D singel 5 7/8" HWDP on RCWM. Remove and install innerbushing and slips to pull MUT
-feb-19 Deepsea Atlantic	22:10	22:50	40	0	12,13 SEAL ASSY / WEAR BUSHING	with WB through rotary. Disconnect WB from MUT. L/D MUT and WB to RCWM. R/B Jetsub 100 stand. NO 35/11 B-13 HT3
I-feb-19 Deepsea Atlantic I-feb-19 Deepsea Atlantic	21:45 21:30	22:10 21:45	25 15	67 360	12,13 SEALASSY / WEAR BUSHING 5.06 JET AROUND WELLHEAD	100 POOH with Jetsub and 10 3/4" WB on 5 7/8" HWDP from 360 m to 67 m. NO 35/11 B-13 HT3 100 Connect TD. Wash WH area with 3000 LPM/ 32 bar. NO 35/11 B-13 HT3
l-feb-19 Deepsea Atlantic	21:25	21:30	5	390	12,13 SEAL ASSY / WEAR BUSHING	100 Pull 10 3/4" WB above 80P, R/B stand. NO 35/11 B-13 HT3 Install last stand, connect TD. Record up/down weight: 88/87 ton. RIH and land MUT in WB
-feb-19 Deepsea Atlantic	21:05	21:25	20	430	12,13 SEAL ASSY / WEAR BUSHING	100 with 10 too. Bull from 10 2/4" WB with 18 too 08 NO 25/11 B.12 UT2
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	20:40 20:20	21:05 20:40	25 20	391 363	5,06 JET AROUND WELLHEAD 12,13 SEAL ASSY / WEAR BUSHING	100 Connect TD and Wash WH area with 3000 IPM/ 32 bar. Wash for 10 minutes. NO 35/11 8-13 HT3 100 RiH with Jetsub and MUT on 5 7/8" HWDP from 67 m to 363 m. NO 35/11 8-13 HT3
						RIH with Jetsub stand. P/U MUT from RCWM. Aker prepare and check MUT. Remove and install innerbushing and slips to run MUT through rotary. P/U singel 5 7/8" HWDP from
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	19:30 19:15	20:20 19:30	50 15	67	12,13 SEALASSY / WEAR BUSHING 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 RCWM. NO 35/11 B-13 HT3 100 Prejob meeting prior to RIH and pull WB. NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	19:00	19:15	15	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Remove skate on RCWM. Remove padeye sub. NO 35/11 B-13 HT3 Install padeyesub in elevator, and rig up for install casing tang. Lift up with top drive and hold
-feb-19 Deepsea Atlantic	17:30	19:00	90	0	12,11 RIG UP CASING/LINER EQUIPMENT	tension with tugger. Install casing tong. Install Csg tong in Main through forward/RCWM 100 due to Robot on DF. NO 35/11 B-13 HT3
		17:30	30	0		Cleaned and clear rigfloor. Drops inspection. Lubricated equipment. Meanwhile lift up
feb-19 Deepsea Atlantic	17:00				38,01 CLEAN AND CLEAR RIGFLOOR	100 transferskid and OWS casing tang to driffloor. NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	16:40 16:00	17:00 16:40	20 40	17	6,11 LAY DOWN BHA 6,83 POOH with BHA	100 Remove wiper from rotary. L/D Csg cutter assy, BH inspected knifes prior laying down. NO 35/11 B-13 HT3 100 Continue POOH with cutter assy on 5.7/8" HWDP from 370m to 17m NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	15:30 15:00	16:00 15:30	30 30	370 775	6,01 POOH CH 25,22 DROP's Inspection	100 Continue POOH with cutter assy on 5 7/8" DP from 775m to 370m NO 35/11 B-13 HT3 100 Drops check. Prior Handling BHA in red sone. NO 35/11 B-13 HT3
			15	775		Kick Drill with Robot. Some issues to land sub in stickup. Not able to spin in/make up KC in
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	14:45 14:30	15:00 14:45	15 15	775 775	6,76 WELL CONTROL DRILLS 6,41 FLOW CHECK 6,01 POOH CH	100 Flow check well for 10 min. Well static NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	13:50	14:30 13:50	40 20	775 1470	6,41 FLOW CHECK	100 Flowchecked well due to unstable Trip tank. Added defoamer. 10min static. NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	12:50 12:40	13:30 12:50	40 10	1470 2000	6,01 PODH CH 6,04 PUMP SLUG	100 POOH with cutter assy on 5 7/8" DP. from 2000 to 1470m NO 35/11 B-13 HT3 100 Pump 5m3 1,68sg slug NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	12:25	12:40 12:25	15 25	2000	6,41 FLOW CHECK 12.3 CUT CASING	100 Flow check well for 10 min. Well static NO 35/11 8-13 HT3 100 Cut 10 3/4" casing @2000m according to Baker Hughes. 1200(pm-120RPM. NO 35/11 8-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	11:45 11:30	12:00 11:45	15 15	2000	12,3 CUT CASING 12,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Cut 10 3/4" casing @2000m according to Baker Hughes. 1200(pm-120RPM. NO 35/11 8-13 HT3 100 Projobmeeting prior to cut casing. NO 35/11 8-13 HT3
The pass Admin.	14.30	1140	J	1000	age Theodomes into among patents	Table up swight 1.27 to find from weight 6.07 few, inclination four git 1.18 m and 1.20 too. Vaul diction with 500 (pm): Table and continuing 80.25 m for the soft connect to be for immenser. 2.00(pm eldelfed and tag with 53 ton 8.2555 2.00(pm = 2.00 few) 2.00(pm = 2
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	10:30 10:20	11:30 10:30	60 10	2055 2015	6,22 WASH DOWN 6,4 FILL PIPE	100 Rack back 1 std drop 2" ball. Record up/down weight 144/109ton NO 35/11 8-13 HT3 100 Fill string with 1,38sg WBM NO 35/11 8-13 HT3
8-feb-19 Deepsea Atlantic	08:00	10:20	140	2020	6 RIH CH	100 L/D one sgl in RCWM and cont. RIH with cutting assy on 5 7/8" DP from 404m to 2015m NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	07:55 07:45	08:00 07:55	5 10	406 378	6,74 COMPENSATE THROUGH BOP 6 RIH CH	100 Compensate through BOP with BHA NO 35/11 8-13 HT3 100 RIH with cutting assy on 5 7/8" DP from 365m to 378m NO 35/11 8-13 HT3
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	06:10 06:00	07:45 06:10	95 10	365 0	6,1 MAKE UP BHA 38,01 CLEAN AND CLEAR RIGFLOOR	100 P/U and Make up Persus cutting assy 1 and 2. RiH with 5 7/8" HW/DP, L/D dobbel to RCWM. NO 35/11 B-13 HT3 100 Clean and clear rigition. NO 35/11 B-13 HT3
I-feb-19 Deepsea Atlantic I-feb-19 Deepsea Atlantic	05:50 05:40	06:00 05:50	10 10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 6,11 LAY DOWN BHA	100 Prejob prior to RIH with Persus Cutting assy to tag cement and cut 10 3/4" tie-back csg. NO 35/11 B-13 HT3 100 L/D singel 5 7/8" DP to RCWM, and rack back jetsub stand. NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	05:25	05:40	15	50	6,01 POOHCH	100 POOH with jetsub on 5 7/8" DP from 383 m to 50 m. NO 35/11 B-13 HT3 Rack back 1 stand 5 7/8" DP, connect top drive and wash WH and BOP with 3000 ipm 34
-feb-19 Deepsea Atlantic	04:50	05:25	35	383	5,06 JET AROUND WELLHEAD	100 bar. 2 passes. NO 35/11 8-13 HT3 Veryfy space out and Close Upper annular, low pressure test 20 bar ok. Open upper annular, close lower annular, low pressure test 20 bar ok. Open lower annular and close upper pipe ram. In your recourse test 20 bar, do cheen upper pipe ram. In your recourse test 20 bar, do cheen upper pipe ram. In your passes were set 20 bar ok. Open upper pipe ram. In your passes were set 20 bar ok. Open upper pipe ram. In your passes were passes when the passes were passes were passes when the passes were passes were passes when the passes were passes were passes when the passes were passes which the passes when the
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	04:00 03:45	04:50 04:00	50 15	430 430	15,11 PRESSURE TEST BOP 6 RIH CH	100 pressure test 20 bar ok. Open middle pipe ram. NO 35/11 8-13 HT3 100 RiH with 1 stand 5 7/8" DP and space out to close BOP. NO 35/11 8-13 HT3 Connect top drive and pit BOP and WH with 3000 LPM / 34 bar, 10 RPM, 4 passes. Boost
8-feb-19 Deepsea Atlantic 8-feb-19 Deepsea Atlantic	03:00 02:20	03:45	45 40	383 360	5,06 JET AROUND WELLHEAD 6 RIH CH	100 riser: NO 35/11 B-13 HT3 100 RIH with jetsub on 5 7/8" DP from 50 m to 360 m. NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	02:10	02:20	40 10	360 50	6 RIH CH 6,1 MAKE UP BHA	100 RIH with jetsub on 5 7/8" DP from 50 m to 360 m. NO 35/11 8-13 HT3 100 RIH with jetsub on 5 7/8" DP from 50 m to 360 m. NO 35/11 8-13 HT3 Prejob prior to RIH with jetsub, wash and low pressure test BOP. Meanwhile close shear ram
-feb-19 Deepsea Atlantic	02:00 01:10	02:10 02:00	10 50	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 11.02 RIG UP OR DOWN FOR WIRELINE	100 and open again. NO 35/11 B-13 HT3 97 Rig down wire line toolstring. NO 35/11 B-13 HT3
l-feb-19 Deepsea Atlantic l-feb-19 Deepsea Atlantic	01:00	01:10	10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob prior to rig down wire line toolstring. NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	00:00	01:00	60	0	11,01 WIRE LINE LOGGING	97 Cont. RiH with logging string acc to Deepwell/Sib. POOH with wireline. NO 35/11 B-13 HT3 Cont. RiH with logging string acc to Deepwell/Sib. 480 m depth @ midnight. Table top
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	19:00 17:30	00:00 19:00	300 90	0	11,01 WIRE LINE LOGGING 11,01 WIRE LINE LOGGING	97 discussing release and pull seal assy. NO 35/11 B-13 HT3 97 Cont. RiH with logging string acc to Deepwell/Sib NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	15:00	17:30	150	0	11,01 WIRE LINE LOGGING	97 Mechanical repairs on wireline winch due to broken guide to wireline. NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	12:30	15:00	150	0	11,01 WIRE LINE LOGGING	RIH with logging string to 100m. Activate compensator. Pull back wire and adjust depth 97 measurements on wireline unit. RIH with logging string act to Deepwell/Sib NO 35/11 8-13 HT3
						Contrig up wireline equipment. PJU WI tool string with tugger and make up same. Connect cable according to schlumberger. Meanwhile troubleshoot and inspect TT valves. Revers circulate and flush kill/choke lines for
-feb-19 Deepsea Atlantic	12:00	12:30	30	0	11,02 RIG UP OR DOWN FOR WIRELINE	97 clamps. NO 35/11 B-13 HT3 Rig up wireline equipment. P/U WL tool string with tugger and make up same. Connect cable
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	10:45 10:30	12:00	75	0	11,02 RIG UP OR DOWN FOR WIRELINE 25,3 PREJOBMEETING - BRIEF/DEBRIEF	97 according to schimberger. NO 35/11 B-13 HT3 100 Prejobmeeting prior to run wirelogging. NO 35/11 B-13 HT3
	10:10	10:30	20	0	38,01 CLEAN AND CLEAR RIGFLOOR	100 Clean and clear drilffoor. NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	09:55 09:45	10:10 09:55	15 10	4	6,11 LAY DOWN BHA 6,33 CHANGE HANDLING EQUIPMENT	100 L/D EZSV running tool in RCWM. NO 35/11 B-13 HT3 100 Remove wiper from rotary. NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	09:10	09:45 09:10	35 10	4 351	6,01 PODH CH 6,33 CHANGE HANDLING EQUIPMENT	100 POOH with EZSV running tool, on 3 1/2" DP from 3S1m to 4m NO 3S/11 B-13 HT3 100 B/U and I/D XO. Detect drift in XO. NO 3S/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	09:00	09:00		351 351	6,01 POOH CH 6,33 CHANGE HANDLING EQUIPMENT	100 Rack back 1 std 5 7/8" DP NO 35/11 8-13 HT3 100 Change slips in rotary to 3 1/2" and Install 3 1/2" wiper. NO 35/11 8-13 HT3
eb-19 Deepsea Atlantic eb-19 Deepsea Atlantic eb-19 Deepsea Atlantic eb-19 Deepsea Atlantic eb-19 Deepsea Atlantic	09:00 08:50	09.00	10	331	6,33 CHANGE HANDLING EQUIPMENT 6,01 POOH CH	200
leb-19 Deepsea Atlantic leb-19 Deepsea Atlantic leb-19 Deepsea Atlantic leb-19 Deepsea Atlantic leb-19 Deepsea Atlantic leb-19 Deepsea Atlantic leb-19 Deepsea Atlantic	09:00 08:50 08:30 06:30	08:50 08:30	20 120	351	0,02 7001101	100 POOH with 10 3/4" EZSV R/T on 5 7/8" DP from 2018 m to 351 m. NO 35/11 B-13 HT3
leb-19 Deepsea Atlantic leb-19 Deepsea Atlantic	09:00 08:50 08:30	08:50	20	351 2018 2018	6,04 PUMP SLUG 6,41 FLOW CHECK	100 Pump 6 m³ 1,78 Sg Slug: Fill triptank. NO 35/11 B-13 HT3 100 Flowcheck, well static. NO 35/11 B-13 HT3
reb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	09:00 08:50 08:30 06:30 06:00	08:50 08:30 06:30	20 120 30	2018	6,04 PUMP SLUG	100 Penney 6 m ³ 1,78 Sg Sup, Fill triptank. NO 35/11 8-13 H13 100 Flowcheck, well static. NO 35/11 8-13 H13 Open up valves on triptank system, due to plastic from tubing clamps. Found a lot of plastic. 100 Meanwhile circulatine with 2000 LPM / 150 bar and weight up to 1.38 Sg W&M. Pumped one round Circulate with 3000 LPM / 150 bar and weight up to 1.38 Sg W&M. Pumped one round
reb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	09:00 08:50 08:30 06:30 06:00 05:45	08:50 08:30 06:30 06:00 05:45	20 120 30 15	2018 2018 2018 2018	6,04 PUMPSLUG 6,41 FLOW CHECK 5,03 TREATING WELL 5,03 TREATING WELL	100 Penderbox and states of the Operation of the Operatio
reb-19 Despeza Atlantic	09:00 08:50 08:30 06:30 06:00 05:45	08:50 08:30 06:30 06:00	20 120 30 15 45	2018 2018 2018	6,04 PUMP SLUG 6,41 FLOW CHECK 5,03 TREATING WELL	100 Pump G m ³ 1,78 § 100; Fill triptanie. NO 35/11 8-13 1973. 100 Flowbrick, well static. NO 35/11 8-13 1973. Open up valves on triptanis kystem, due to plastic from tubing clamps, Feund a lot of plastic. 100 Manamelike criciaties with 2000 URM / 50 bar. Or 10 1-35 (s) WMM. Pumpod one round circulation. Annual Port of plastic rounds with 2000 URM / 150 bar and weight up to 1.35 (s) WMM. Pumpod one round circulation. Annual Port of plastic on valves on triptanisk system, flow, due to plastic from tubing the company of the plastic from tubing the company of the plastic from tubing the company of the company of the plastic from tubing the company of the co
eb-19 Despesa Atlantic	09:00 08:50 08:30 06:30 06:00 05:45 05:00	08:50 08:30 06:30 06:00 05:45	20 120 30 15 45 60 30 10	2018 2018 2018 2018 2018	6,04 PUMP SLUG 6,41 FLOW CHECK 5,03 TREATING WELL 5,03 TREATING WELL 6,41 FLOW CHECK	100 Pump of m ² 1.78 is Step for Broughan. No 135/118 131973 Opens was well on the principle of the princ
reb-19 Despesa Atlantic	09:00 08:50 08:30 06:30 06:00 05:45 05:00 04:00 03:30	08:50 08:30 06:30 06:00 05:45 05:00 04:00 03:30	20 120 30 15 45 60 30 10	2018 2018 2018 2018 2018 2018 2018 2018	6.0F PUMP SUICE 5.03 TREATING WELL 5.03 TREATING WELL 5.03 TREATING WELL 6.41 FLOW CHECK 6.42 FLOW CHECK	100 Production will recommend to the commendation of the commendat
rés-19 Despus Allantic fél-19 Despus Allantic	09:00 08:30 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20 03:00	08:50 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20	20 120 30 15 45 60 30 10	2018 2018 2018 2018 2018 2018 2018 2018	604 FRAMPALIG 641 FROW OMERX 5,03 TREATING WELL 5,03 TREATING WELL 641 FROW OMERX 641 FROW OMERX 641 FROW OMERX 651 FROW OMERX 651 FROW OMERX 651 FROW OMERX 652 FROW OMERX 653 FROW OMERX 653 FROW OMERX 654 FROW OMERX 655	100 Pump G m ² 1.7 Mg Spar for Institutes
16-13 Deepsa Atlantic 15-13 Deepsa Atlantic 15-13 Deepsa Atlantic 16-13 Deepsa Atlantic	09:00 08:30 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20 03:00	08:50 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20 03:00	20 120 30 15 45 60 30 10 20	2018 2018 2018 2018 2018 2018 2018 2018	604 PROPESUS 641 PROVINCEX 5,03 TREATING WELL 5,03 TREATING WELL 643 FROWCHECK 644 FROWCHECK 644 FROWCHECK 645 FROWCHECK 645 FROWCHECK 645 FROWCHECK 646 FROWCHECK 647 FROWCHECK 648 FRO	100 Pump Gen ¹ 1.73 kg Sup Er Bruspean. No 135/118 1319171 Opens van werden er breizins speem, due to plaste from beling damps: Found a list of plasse. 100 Manimelie Gruchte vern 2000 IMM foll bez. 100 Manimelie Gruchte vern 2000 IMM foll bez. 100 Central vern 2000 IMM 100 bez. 100 Septe pump vern central vern 2000 IMM 100 bez. 100 Septe pump vern central vern 2000 IMM 100 bez. 100 Septe pump vern central vern 2000 IMM 100 bez. 100 Septe pump vern central vern 2000 IMM 100 bez. 100 Septe pump vern central vern 2000 IMM 100 bez. 100 Septe pump vern central vern 2000 IMM 100 bez. 100 Septe pump vern central vern 2000 IMM 100 bez. 100 Septe pump vern 2000 IMM 100 I
- 166-19 Desposa Altantic - 166-10 Desposa Altantic	09:00 08:50 08:30 06:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20 03:00 02:00 00:30 00:15	08:50 08:30 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:00 03:00 00:30	20 120 30 15 45 60 20 60	2018 2018 2018 2018 2018 2018 2018 2018	6.04 PAMPRIUG 6.41 ROW ORDEX 5.01 TREATING WELL 5.01 TREATING WELL 6.41 ROW ORDEX 6.41 ROW ORDEX 6.41 ROW ORDEX 5 CIRCULATE AND CONDITION MUD 6.41 ROW ORDEX	100 Pump Gen ¹² , 27-18 (a Day of Test options. NO 35/118 13/1171 Options Among the Control of
- 16-10 Desposa Altentic	09:00 08:50 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20 03:00 02:00 00:30 00:15	08:50 08:30 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20 03:20 00:30 00:30	20 120 30 15 45 60 30 10 20 60	2018 2018 2018 2018 2018 2018 2018 2018	6,04 PROPESUS 6,41 FOR WHICK 5,03 TREATING WELL 5,03 TREATING WELL 5,03 TREATING WELL 6,41 FOR WHICK 6,41 FOR WHICK 5 CIRCULATE AND CONDITION MUD 6,41 FOR WHICK 5,01 CIRCULATE AND CONDITION MUD	100 Proches will receive the control less than the control less th
16-13 Deepse Altentic 15-13 Deepse Altentic 16-13 Deepse Altentic 16-14 Deepse Altentic 16-15 Deepse Altentic	09:00 08:50 08:30 06:30 06:00 05:45 05:00 04:00 03:30 03:20 03:20 03:00 00:15 00:00 23	08:30 08:30 08:30 06:00 05:45 05:45 05:00 04:00 03:30 03:20 03:20 03:00 00:15 00:00 03:00	20 120 30 15 45 60 20 10 20 50 50 15 50 60	2018 2018 2018 2018 2018 2018 2018 2018	604 PRIMERUS 6.41 FROW ORDEX 5.03 TREATING WELL 5.03 TREATING WELL 5.04 TROW ORDEX 6.44 FROW ORDEX 6.45 FROW ORDEX 6.46 FROW ORDEX 5. CIRCULATE AND CONDITION MUD 5. CIRCULATE AND CONDITION MUD 6.47 FROW ORDEX 5.05 CIRCULATE AND CONDITION MUD 6.48 FROW ORDEX 5.05 CIRCULATE AND CONDITION MUD 6.49 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.45 CONDITION MUD 6.46 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.40 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.40 CONDITION MUD 6.40 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CO	100 Pumps of m ¹ 2.7% is Super in trugens. 100 Manushike circulate with 2000 IMV 60 bez. 100 Carbar with 2000 IMV 100 bez and expert on to 1.38 is WMM. Pumped one round to the place of the property of the p
16-13 Deepse Altentic 15-13 Deepse Altentic 16-13 Deepse Altentic 16-14 Deepse Altentic 16-15 Deepse Altentic	09:00 08:50 08:30 08:30 08:30 08:30 08:00 05:45 05:00 04:00 03:30 03:30 03:00 02:00 00:30 00:15 00:00 23:00	08:50 08:30 08:30 06:30 06:30 06:50 05:45 05:00 04:00 03:30 03:20 03:00 00:35 00:00	20 30 30 15 45 60 30 10 20 60	2018 2018 2018 2018 2018 2018 2018 2018	6.04 PROPESUS 6.41 PROVINCEX 5.01 TREATING WELL 5.02 TREATING WELL 5.02 TREATING WELL 6.41 ROW OFFICEX 6.41 ROW OFFICEX 6.41 ROW OFFICEX 6.42 ROW OFFICEX 6.43 ROW OFFICEX 6.44 ROW OFFICEX 6.45 ROW OFFICEX 6.45 ROW OFFICEX 6.46 ROW OFFICEX 6.47 ROW OFFICEX 6.47 ROW OFFICEX 6.48 ROW OFFICEX 6.49 ROW OFFICEX 6.40 ROW OFFICEX 6.41 ROW OFFICEX 6.41 ROW OFFICEX 6.42 ROW OFFICEX 6.43 ROW OFFICEX 6.44 ROW OFFICEX 6.45 ROW OFFICEX 6.45 ROW OFFICEX 6.45 ROW OFFICEX 6.45 ROW OFFI 6.45	100 Productives and months of the production of
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- 16-19 Deepse Affantic 1-16-19 Deepse Affantic 16-19 Deepse Affantic	09:00 08:50 08:30 06:30 06:00 05:45 05:45 05:00 04:00 03:30 02:20 03:00 02:00 00	08:50 08:30 08:30 08:30 08:50 08:50 08:45 09:45 09:30 09	20 120 30 15 45 60 30 10 10 60 50 50 50 50 50 50 50 50 50 5	2018 2018 2018 2018 2018 2018 2018 2018	604 PRIMERUS 6.41 FROW ORDEX 5.03 TREATING WELL 5.03 TREATING WELL 5.04 TROW ORDEX 6.44 FROW ORDEX 6.45 FROW ORDEX 6.46 FROW ORDEX 5. CIRCULATE AND CONDITION MUD 5. CIRCULATE AND CONDITION MUD 6.47 FROW ORDEX 5.05 CIRCULATE AND CONDITION MUD 6.48 FROW ORDEX 5.05 CIRCULATE AND CONDITION MUD 6.49 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.45 CONDITION MUD 6.46 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.40 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CONDITION MUD 6.48 CONDITION MUD 6.49 CONDITION MUD 6.49 CONDITION MUD 6.40 CONDITION MUD 6.40 CONDITION MUD 6.41 CONDITION MUD 6.41 CONDITION MUD 6.42 CONDITION MUD 6.43 CONDITION MUD 6.44 CONDITION MUD 6.45 CONDITION MUD 6.45 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.47 CONDITION MUD 6.48 CO	100 Pump G m ² 1, 73 kg Sup F in Outpart. No. 125/118 131171 No

06-feb-19 Deepsea Atlantic	18:00	18:15	15	2289	25,3 PREJOBMEETING	BRIEF/DEBRIEF 1	Held prejob meeting prior to displace Well to 1,38 Sg WBM, Engage topdrive: Took weights Up/Down 1357/108T, Broke circulation with 800ltr/16Bar Reciprocated string up and down across setting depth. Set plug according to halliburton	NO 35/11 B-13 HT3
06-feb-19 Deepsea Atlantic	17:15	18:00	45	2300	12,88 SET/RELASE MECH	PLUGS	instructions, and support from Baker fishing. Pulled free from plug with 23 T. Runned in and	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	17:15	17:15	225	2300	6.07 RIH CH Reduced so	seed 1	0 tagged plug with 15 T. g RIH on 5 7/8" DP f/350m t/2280m. Reduced speed 0,33 m/s.	NO 35/11 B-13 H13 NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	13:20	13:30	10	389	6,74 COMPENSATE THE	OUGH BOP 1	g Compensate through BOP, with EZSV B plug .	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	12:50	13:20	30	350	6,33 CHANGE HANDLIN	G EQUIPMENT 1	O Change handlingequipment t/5 7/8". Use Robot. on X/O. Nogo. Install doper.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	12:00	12:50	50	350	6,07 RIH CH Reduced sp		0 RIH on 3 1/2" DP t/ 350m.Reduced speed 0,33 m/s.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	11:00	12:00	60	0	6,1 MAKE UP BHA 25,3 PREJOBMEETING	neurr (orenurr	0 Installed EZSV B plug to RT.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	10:45	11:00	15	0			O Prejob prior to install EZSV B plug	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	10:30 10:00	12:00 10:30	90	0	12,12 RIG DOWN CASING 25,22 DROP's Inspection	1	0 casing tong	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	09:30	10:30	75	0	38.01 CLEAN AND CLEAR	RIGFLOOR	Drops inspection Cleaned and cleared driffloor. Meanwhile removed csg tong to riser deck.	NO 35/11 B-13 H13 NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	08:40	09:30	50	0	6,11 LAY DOWN BHA	northern 1	L/D jar, magnets and junk mill in co-opertaion with BH Fisher.	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	08:00	08:40	40	16	6,83 POOH with BHA	1	0 POOH with drift BHA on 5 7/8" HWDP T/16m.	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	07:30	08:00	30	349	6,01 POOH CH	1	0 POOH with drift BHA on 5 7/8" DPT/386m MD. Compensated junk mill through BHA.	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	07:20	07:30	10	800	6,41 FLOW CHECK	1	0 Flow checked well against TT. Well static	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic 6-feb-19 Deepsea Atlantic	05:30 05:15	07:20 05:30	110 15	800 2280	6,01 POOH CH 6,41 FLOW CHECK	1	0 POOH with drift run on 5 7/8" DPT/ 800m with reduced speed.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
6-reb-19 Deepsea Abantic	05:15	05:30	15	2200	0,41 FLOW CHECK		0 Line well on TT, Flow checked well 10min static OK.	NO 33/11 B-13 H13
6-feb-19 Deepsea Atlantic	04:00	05:15	75	2280	5,01 CIRCULATE HOLE (TEAN 1	Circulated and reciprocated string with. 3500lpm/1058ar-100Rpm/12-14kNm. Boost kill and 0 choke with 1000lpm. 1,8 X Bottoms up. alot off plastic junk on shakers.	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	03:35	04:00	25	2280	6.01 POOH CH		Increase in HKL weight and volume increased in TT when we started POOH. Up to 20T 0 overpull.	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	03:30	03:35	5	2333	15,04 KICK DRILL, CHOKE	DRILL 1	0 Kick drill with crew. 45s	NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	03:20	03:30		2333	6,41 FLOW CHECK	1	0 Flow check well prior to POOH. 10 min stable.	NO 35/11 B-13 HT3
							Observed restrictions @2200 worked string up and down to pass, max 15T. Not able to pass 2303m engage DDM, worked string down with 400lpm 6bar 60rpm 10-	
6-feb-19 Deepsea Atlantic	00:45	03:20	155	2333	6,07 RIH CH Reduced sp	eed 1	15kNm rotation weight 124T. When reducing flow from 800lpm to 400lpm, WOB reduced by 0 10 T. Worked down to 2333m	/ NO 35/11 B-13 HT3
6-feb-19 Deepsea Atlantic	00:00	00:45	45	2200	6,07 RIH CH Reduced sp	eed 1	Continue RIH with drift run on 5.7/8" DP with reduced speed. RIH with landing mode. Used 0 only TT1.	NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic	22:30	00:00	90	2240	6,07 RIH CH Reduced sp		Continue RIH with drift run on 5 7/8" DP with reduced speed. Use only TT1. Activate landing 0 mode #2000m	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	22:30	00:00 22:30		2240 1580	6,07 RIH CH Reduced sp 6,4 FILL PIPE	eeu 1	0 mode @2000m 0 Fill pipe and emtyTT	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	22:15	22:30		1580	6,4 FILL PIPE 6.07 RIH CH Reduced so	eed 1	0 Fill pipe and emty TT 0 Continue RIH with drift run on 5 7/8" DP with reduced speed. Use only TT1.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
	21:20	44:45	35	±360	o,u / nin CH Reduced sp	enu 1	0 Continue RIH with drift run on 5 7/8" DP with reduced speed. Use only TT1. Troubleshoot on TT valve due to clamps in flowline. Valued to RIH with only TT1 due to	14-0 33/11 B-15 H15
5-feb-19 Deepsea Atlantic	21:10	21:20	10	940	6.07 RIH CH Reduced so	eed	0 clamps in TT system.	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	20:15	21:10	55	940	6,07 RIH CH Reduced sp	eed 1	0 RIH with drift run on 5 7/8" DP with reduced speed.	NO 35/11 B-13 HT3
15-feb-19 Deepsea Atlantic	20:00	20:15	15	424	6,33 CHANGE HANDUN	G EQUIPMENT 1	0 Install pipedoper and auto slips.	NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic IS-feb-19 Deepsea Atlantic	19:30	20:00	30	424	6,11 LAY DOWN BHA		p POOH with MUT and L/D in RCWM according to Aker. Aker inspect MUT befor L/D.	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	19:15	19:30	15	439	6,33 CHANGE HANDLIN		0 Remove slips and bowls in rotary prior to pull out MUT	NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic	19:00	19:15	15	439	25,3 PREJOBMEETING	BRIEF/UEBRIEF 1	0 Prejob meeting prior to L/D MUT	NO 35/11 B-13 HT3
E fob 19 Desert Avenue	19:20	10.00	30	514	6 75 TRIPONIC OCCU	THE SHILL BORS TOOLS	0 POOH with MUT from 820m to 439m. Restricted speed due to full bore tool and junk in hole.	NO 35/41 P 43 1/73
5-feb-19 Deepsea Atlantic	18:30	19:00	93	514	6,75 TRIPPING RISER W	BURE IUULS 1	0 POOH with MUT from 820m to 439m. Restricted speed due to full bore tool and junk in hole. Recorded Up weight 98 ton/Down weight 95 ton and installed 10 3/4" WB according to Aker	- NO 30/11 8-15 HIS
5-feb-19 Deepsea Atlantic	18:00	18:30	30	820	12,13 SEAL ASSY / WEAR	BUSHING	Recorded up weight 98 ton/Down weight 95 ton and installed 10 3/4" WB according to Axer 0 proc.	NO 35/11 B-13 HT3
Despet Abantoc	46.00	au-30	30	340	-a, au sunt Abbi / WEAK	1	0 proc. RIH with 9 3/8" mill/MUT on 5 7/8" DP from/440m to/780m. Reduced speed due to junk in	20/21 0-13 HI3
IS-feb-19 Deepsea Atlantic	17:15	18:00	45	780	6,75 TRIPPING RISER W	ITH FULL BORE TOOLS		NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic IS-feb-19 Deepsea Atlantic	16:50	17:15			6,1 MAKE UP BHA		n P/II & installed MIIT/WR from RCWM	NO 35/11 B-13 HT3
15-feb-19 Deepsea Atlantic	16:50 16:10	16:50	25 40	440 424	6,11 LAY DOWN BHA	1	0 Brake out 1 std 5 7/8" DP, B/O XOS's and 16" Jetsub, L/D SGL to RCWM.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
							POOH with 9 3/8" mill/16" jetsub on 5 7/8" DP from/795m to/439m. Reduced speed due to	
5-feb-19 Deepsea Atlantic	15:00	16:10	70	439	6,75 TRIPPING RISER W	TH FULL BORE TOOLS 1	0 junk in hole.	NO 35/11 B-13 HT3
C 4-2 10 December 111		10.00		705	5.04. CIDC::::=:::	2544	Connect TD and tagged WH, started to reciprocated string while circ 1 btms up with 3000	NO 25 (44 5
5-feb-19 Deepsea Atlantic	14:20	15:00	40	795	5,01 CIRCULATE HOLE (IEAN 1	0 I/m- 37bar. Circ with 1000 I/m on kill and choke line. RIH with 9 3/8" mill/16" letsub on 5 7/8" DP from/439m to/795m. Reduced speed due to	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	13:55	14:20	25	795	6,07 RIH CH Reduced sp	eed :	RIH with 9 3/8" mill/16" jetsub on 5 7/8" DP from/439m to/795m. Reduced speed due to 0 junk in hole.	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	13:55	14:20	25 35	795 386	5,07 RIH CH Reduced sp 5,01 CIRCULATE HOLE	TEAN 1	o. Circulated hole with	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic		13:55	90	439	6.1 MAKE UP BHA		Make up 1 std 5 7/8" DP, installed XOS's and 16" Jetsub, P/U SGL from RCWM.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	12:25	12:25	10	386	6,1 MAKE UP BHA 6,74 COMPENSATE THE	OUGH BOP 1	0 Compensated 9 3/8" mill through BOP.	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	12:00	12:15	15	349	6,82 RIH with BHA	1	0 RIH with 9 3/8" mill BHA on 5 7/8" HWDP F/127m T/349m MD.	NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic	11:45	12:00	15	127	6,82 RIH with BHA	1	0 RIH with clean BHA on 5 7/8" HWDP T/127m.	NO 35/11 R-13 HT3
IS-feb-19 Deepsea Atlantic	11:00	11:45	45	16	6,1 MAKE UP BHA	1	0 M/U 9 7/8" junk mill assy according to BH instructions.	NO 35/11 B-13 HT3
15-feb-19 Deepsea Atlantic	10:45	11:00	15	0	25,3 PREJOBMEETING	BRIEF/UEBRIEF 1	Performed pre job meeting prior to M/U BHA	NO 35/11 B-13 HT3
15-feb-19 Deepsea Atlantic	10:30	10:45	15	0	38,01 CLEAN AND CLEAR	HIGHLOUR 1	0 Cleaned and cleared rigfloor.	NO 35/11 B-13 HT3
							POOH with BOP Clean BHA. Cleaned magnets for swarf debries 4,8kg. B/O and L/D Jetting	
5-feb-19 Deepsea Atlantic	09:00	10:30	90	0	6,11 LAY DOWN BHA	1	0 tool and magnet assy according to BH Fisher instructions. R/B wash stand in derrick.	NO 35/11 B-13 HT3
							POOH with BOP clean BHA on 5 7/8" DP T 64m. Boosted riser with 1000lpm through K/C	
IS-feb-19 Deepsea Atlantic	08:30	09:00	30	64	6,01 POOH CH	1	0 while POOH. Meanwhile performed prejob meeting with crew before handle BHA.	NO 35/11 B-13 HT3
							Continued circulate/wash BOP with 3000lpm/29bar. Boosted riser with 1000lpm through	
5-feb-19 Deepsea Atlantic	07:00	08:30	90	420	5,01 CIRCULATE HOLE (LEAN 1	Kill/Choke lines. Reverse flushed TT-line through MB to Flowline and emptied TT's. Establish circ with 3000lpm/30bar. Boost riser with 1000lmp through Kill/choke line. Parts	NO 35/11 B-13 HT3
E fob 19 Deserre Ave-vi-	05:20	07:00	~	421	5,01 CIRCULATE HOLE (TEAM	Establish circ with 3000lpm/30bar. Boost riser with 1000lmp through Kill/choke line. Parts g from control-line clamps in return on shaker.	NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic IS-feb-19 Deepsea Atlantic	05:30 04:30	07:00 05:30	90	431	5,01 CIRCULATE HOLE O 15,01 FUNCTION TEST BI	DP 1	from control-line clamps in return on snaker. Space out and close LAP stripp dp to verify toolint. Function test LPR, MPR, UPR.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
							Wash BOP with jetting tool. Washed BOP with 3000lpm/33 Bar- 10Rpm/0,5kNm. Boosted	
I5-feb-19 Deepsea Atlantic	03:45	04:30	45	431	5,06 JET AROUND WELL	HEAD 1	0 Kill/choke with 1000lpm. Reciprocated up and down 6 Passes.	NO 35/11 B-13 HT3
							RIH With BOP jetting tool from 64m to 431m Bullnose depth. Took up and down weights 77	
IS-feb-19 Deepsea Atlantic	03:15	03:45	30	431	6,07 RIH CH Reduced sp	eed 1	0 Ton/77 Ton Free torque @ 10Rpm 0,5 kNm. Landed Jetting tool in WH @ 383m with 5Ton.	NO 35/11 B-13 HT3
							Run in 1x stand with jetsub/bullnose. P/U BOP jetting tool and magnets. P/U 1 sgl 5 7/8" DP.	
15-feb-19 Deepsea Atlantic	02:30	03:15	45	64	6,1 MAKE UP BHA		g From surface to 64m.	NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic IS-feb-19 Deepsea Atlantic	02:15	02:30	15	0	25,3 PREJOBMEETING - 25,22 DROP's Inspection	BRIEF/UEBRIEF 1	Prejobmeeting prior to P/U BHA and RIH with clean out run. Preposition and greated on too drive in Main	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic IS-feb-19 Deepsea Atlantic	02:00	02:15	15 25	0	25,22 DROP's Inspection 38,01 CLEAN AND CLEAR	RIGHTOR	Drops inspection and greased on top drive in Main. Clean and tidy drillfloor.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic	01:35	02:00	5	0	12.12 RIG DOWN CASIN	S/LINER EQUIPMENT	O Rig down casing slips and change inserts in elevator	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
IS-feb-19 Deepsea Atlantic	01:30	01:30	10	0	31,1 PULL TUBING		0 Rig down casing slips and change inserts in elevator. 0 POOH and L/D 5 1/2" tubing cut in RCWM	NO 35/11 B-13 HT3
5-feb-19 Deepsea Atlantic	00:00	01:20	80	0	31,1 PULL TUBING	1	0 Continued pull 5 1/2" tubing.	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	23:15	00:00	45	470	31,1 PULL TUBING		O Continued pull 5 1/2" tubing.	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	22:15	23:15	60	570	31,1 PULL TUBING		Observed tangle on controll line. Cut and remove slack control line and splice same. Q Pull up gas lif valve and set im rotary.	NO 35/11 B-13 HT3
							Continued pull 5 1/2" tubing. Remove straps in elevator and cont. pull out controll-line with	
4-feb-19 Deepsea Atlantic	21:45	22:15	30	570	31,1 PULL TUBING	1	0 reel.	NO 35/11 B-13 HT3
14-feb-19 Deepsea Atlantic	19:30	21:45	135	700	31,1 PULL TUBING 25,3 PREJOBMEETING	nour formur	Continued pull 5 1/2" tubing. Control-line partly followed with strap in elevator.	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	19:15	19:30	15	855	25,3 PREJUBMEETING	sensory scotter 1	Prejob meeting with new crew prior to continue operation. Continued pull 5 1/2" tubing. Control-line partly followed when POOH. Compensated GLV	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	18:05	19:15	70	855	31,1 PULL TUBING	4	0. through BOB. Euplints further operation	NO 35/11 B-13 HT3
							Pulled 5 1/2" tubing according to tally F/1973m T/907m MD. Observed 15ton OP @ 907m	
4-feb-19 Deepsea Atlantic	12:00	18:05	365	907	31,1 PULL TUBING	1		NO 35/11 B-13 HT3
4.6-2.00	44.17	43.65		4077	31.1 PULL TUBING		Continued pulling 5 1/2" tubing according to tally. Removed clamps/control-lines and RB	NO 35 (44 5
4-feb-19 Deepsea Atlantic	11:45 10:45	12:00	15 60	1973 2010	31,1 PULL TUBING 25,3 PREJOBMEETING -	1 seice/nessice	0 stands in derrick. 0 Broket meeting and SIA prior to BOOM with 5 1/2" Tubing and gaps controll line.	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	10:45	11:45	60	2010	25,3 PKEJOBMEETING	DRIEF/DEBRIEF 1	Prejob meeting and SIA prior to POOH with 5 1/2" Tubing and gage controll line. Continued pulling 5 1/2" tubing according to tally. Removed clamps/control-lines and RB	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	09:30	10:45	75	2010	31.1 PULL TUBING		Continued pulling 5 1/2" tubing according to tany, Removed clamps/control-lines and RB 0 stands in derrick.	NO 35/11 B-13 HT3
							L/D Upper/Lower DHSV, ASV and sngl 5 1/2" ints to RCWM. 3 plastic clamps removed from	
							connections.	
4-feb-19 Deepsea Atlantic	08:00	09:30	90	2040	31,1 PULL TUBING		Used tugger and wire clamp for securing control-line.	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic 4-feb-19 Deepsea Atlantic	07:15 07:00	08:00 07:15	45 15	2120	31,1 PULL TUBING 25,3 PREJOBMEETING	seicc/ncepicc	g POOH with 5 1/2" tubing until upper DHSV in RKB.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
Desepties Atlantic	07:00	07:45	15	2770	25,3 PREJUBMEETING	sensory scotter 1	Prejob meeting with crew before POOH with 5 1/2" tubing. POOH with Tubing T/2776m. Spool 2X controll lines in on drum, remove clamps on every.	14-0 30/11 d-15 H13
4-feb-19 Deepsea Atlantic	06:00	07:00	60	2770	31,1 PULL TUBING		POUH with Lubing 1/27/bm. Spool 2X controll lines in on drum, remove clamps on every 0 connection.	NO 35/11 B-13 HT3
		06:00					O commensure. Control lines slipping through clamps, decided to rig up sheave in DRK and use reel on sack O store roof.	
	03:45	00.00	135	2776	31,1 PULL TUBING	1	0 store roof. Due to clamps stop in the guide in FMS slips. Remove FMS slips and install vippe slips in	NO 35/11 B-13 HT3
				2776	6,33 CHANGE HANDLIN	G EQUIPMENT .	rotary. Rig up for pull CL trough rotary.	NO 35/11 B-13 HT3
I-feb-19 Deepsea Atlantic	03:15	03:45	30		25,3 PREJOBMEETING -	BRIEF/DEBRIEF 1	g Perform prejobmeeting prior to secure and pull up controll line.	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	03:15 03:00	03:45 03:15		2776			Start pulling tubing, then observed control lines drop synchronous. Attach control line to	
1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	03:00	03:15	15	2776				
1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic 1-feb-19 Deepsea Atlantic	03:00	03:15	15 30	2776 2776	31,1 PULL TUBING	1	0 tugger, and try to pull up. Nogo.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	03:00	03:15	15 30	2776		BRIEF/DEBRIEF 1	O Prejob meeting prior to POOH with 5 1/2" Tubing.	
I-feb-19 Deepsea Atlantic	03:00	03:15	15 30 15	2776 2776	31,1 PULL TUBING 25,3 PREJOBMEETING	BRIEF/DEBRIEF 1	Prejob meeting prior to POOH with 5 1/2" Tubing. Changed to 5 1/2" csg inserts in elevator, maked up swedge and Kellycock ready on Drill	NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	03:00 02:30 02:15	03:15 03:00 02:30	15 30 15 60	2776 2776 2276 2276	31,1 PULL TUBING	BRIEF/DEBRIEF 1 G EQUIPMENT 1	Prejob meeting prior to POOH with 5 1/2* Tubing. Changed to 5 1/2* cig inserts in elevator, maked up swedge and Kellycock ready on Drill O floor, removed master bushing installed FMS.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15	03:15 03:00 02:30 02:15	15 30 15	2776 2776 2276 2276	31,1 PULL TUBING 25,3 PREJOBMEETING 6,33 CHANGE HANDLIN	BRIEF/DEBRIEF 1 G EQUIPMENT 1	O Prejob meeting prior to PODH with 5 1/2" Tubing. Changed to 5 1/2" gainestrie eleventor, maked up swedge and Kellycock ready on Drill O floor, removed master bushing installed FMS. O Cleaned and clear rigitory prior to change handling equipment and PODH with Tubing. Continue US Departs Himspected operar says, secured oper to Tubing with Traps. Removed	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00	03:15 03:00 02:30 02:15 01:15	15 30 15 60 15	2776 2776 2276 2276 2276	31,1 PULL TUBING 25,3 PREJOBMEETING 6,33 CHANGE HANDLIN 38,01 CLEAN AND CLEAR 31.1 PULL TUBING	### BRIEF/DEBRIEF 1 G EQUIPMENT 1 RIGFLOOR 1	O Projok meeting prior to PODH with \$1,27" Tabling. Changed 15 \$127" captest in elevator, maked upswedge and Kellycook ready on Drill 0 floor, removed master bucking installed PMS. O Cleaned and clear rightop prior to change handling equipment and PODH with Tubing. O Cleaned and clear rightop prior to change handling equipment and PODH with Tubing. Continue IUD Spear, the Impocents opera easy, secured spear to Tubing with straps. Remove xvew and pup from spear asy on RCWM. Checked inside tubing for radio active sources, owth pages rather.	NO 35/11 8-13 HT3 NO 35/11 8-13 HT3 NO 35/11 8-13 HT3 NO 35/11 8-13 HT3 NO 35/11 8-13 HT3
4-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00	03:15 03:00 02:30 02:15 01:15	15 30 15 60 15	2776 2776 2276 2276 2276 2276 2276	31,1 PULL TUBING 25,3 PREIDBMEETING 6,33 CHANGE HANDUN 38,01 CLEAN AND CLEAR 31,1 PULL TUBING 31,1 PULL TUBING	BRIEF/DERRIEF 1 G EQUIPMENT 1 RIGFLOOR 1 1 1	O Project meeting prior to POOH with ST L27T being. Changed to \$5.17° centers in elevator, manual-up swedge and follycock ready on Drill Officer, removed master bushing installed PASE. O Research and any Experiment of PASE and	NO 35/11 8-13 HT3 NO 35/11 8-13 HT3
4-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00	03:15 03:00 02:30 02:15 01:15	15 30 15 60 15	2776 2776 2276 2276 2276	31,1 PULL TUBING 25,3 PREJOBMEETING 6,33 CHANGE HANDLIN 38,01 CLEAN AND CLEAR 31.1 PULL TUBING	BRIEF/DERRIEF 1 G EQUIPMENT 1 RIGFLOOR 1 1	O Project meeting prior to POOP with ST_LYTT Sizing, Changed to \$1.77 emersion is elevator, manual-up passedge and fail-proofs ready on Drill O floor, removed market bushing installed PMS. Of Readward and sear Englisher prior to Change the Underline geosphiement and POOPs with Taking, Continual CO Spears Stringscent of passes area, secured spear to Taking with straps. Removed when you prior area was press CNAM_Changed under the Straps Secured control of the Straps Secured to Straps Secured Control of the Strap	NO 35/11 8-13 HT3 NO 35/11 8-13 HT3 NO 35/11 8-13 HT3 NO 35/11 8-13 HT3 NO 35/11 8-13 HT3
4-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic 3-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30	03:15 03:00 02:30 02:15 01:15 01:00 00:00 23:35	15 30 15 60 15 60 25 5	2776 2776 2276 2276 2276 2276 2276 2276	31,1 PULL TUBING 25,3 PREJOBMEETING 6,33 CHANGE HANDLIN 38,01 CLEAN AND CLEAR 31,1 PULL TUBING 31,1 PULL TUBING 12,11 RIG UP CASING/UI	BRIEF/DEBRIEF	O Project meeting prior to POOP with ST 2/T Sching, Changed to \$1.77 experiment investure, measure op meetings and feeling-cold residy on Drill Close, removed master burding statistical Hist. One statistical History of the Company of the Company of the History of the Company of the Co	NO 35/11 8-13 HT3
4-feb-19 Deepsea Atlantic 5-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30	03:15 03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30	15 30 15 60 15 5 5 75	2776 2776 2276 2276 2276 2276 2276 2276	31,1 PULL TUBING 25,3 PREJOBMEETING- 6,33 CHANGE HANDUN 38,01 CLEAN AND CLEAR 31,1 PULL TUBING 31,1 PULL TUBING 12,11 Rig UP CASING/LII 31,41 PULL TUBING ON I	BRIEF/DEBRIEF 1	O Project meeting prior to POOP with \$1.27\transfer handle spin energies and fail-prock ready on Drill Changed to \$1.27\transfer size in developer, manual up energies and fail-prock ready on Drill Observation and the prior of the prior o	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
N4-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30 22:15	03:15 03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30 22:15	15 30 15 60 15 60 25 5 75	2776 2776 2276 2276 2276 2276 2276 2276	31,1 PULL TUBING 25,3 PREJOBMEETING - 6,33 CHANGE HANDUN 38,01 CLEAN AND CLEAR 31,1 PULL TUBING 31,1 PULL TUBING 12,11 RIG UP CASING/JU 31,41 PULL TUBING ON 25,3 PREJOBMEETING -	BRIFF/CERRIFF 1	O Project menting prior to POOP with ST L27T Schlieg, Changed to S12T or general in elevator, manual-op preedige and fail-proof, resady on Drill Of two. removed master boulting installed PMS. O Remaind and our eight prior for so drange the handling equipment and POOH with Tuking. Continue L0 Space: Bit inspected space arou, secured space to Tuking with Starps. Benoved and purple prior and prior to the space arou, secured space to Tuking with Starps. Benoved and purple prior around the space around the space around space to Tuking with Starps. Benoved and purple prior and prior to POP space around space to Tuking with Starps. O LOT Space are says. Secured space to Subject and space Lotter Starps. Space around the space around the space Lotter Starps. Space around the space around the space Lotter Starps. Space around the space Lotter Starps. Space around the space Lotter Starps. Space Lotter Starps	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
44-feb-19 Deepsea Atlantic 14-feb-19 Deepsea Atlantic 15-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30	03:15 03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30	15 30 15 60 15 60 25 5 5	2776 2776 2276 2276 2276 2276 2276 2276	31,1 PULL TUBING 25,3 PREJOBMEETING- 6,33 CHANGE HANDUN 38,01 CLEAN AND CLEAR 31,1 PULL TUBING 31,1 PULL TUBING 12,11 Rig UP CASING/LII 31,41 PULL TUBING ON I	BREFFORBRIEF 1 G EQUIPMENT 1 RIGELOOR 1 INTRECLUIPMENT 1 AND RECOURAGE 1 AND RECOURAGE 1 AND RECOURAGE 1 BREFFORBRIEF 1 G EQUIPMENT 1	O Project meeting prior to POOP with \$1.27\transfer handle spin energies and fail-prock ready on Drill Changed to \$1.27\transfer size in developer, manual up energies and fail-prock ready on Drill Observation and the prior of the prior o	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
4-feb-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30 22:15 22:00 21:45	03:15 03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30 22:15 22:00	15 30 15 60 15 60 25 5 5	2776 2776 2276 2276 2276 2276 2276 2276	31,1 PULL TUBING 25,3 PREJORMEETING- 6,33 CHANGE HANDUN 38,01 CLEAN AND CLEAR 31,1 PULL TUBING 31,1 PULL TUBING 12,11 RIG UP CASING/LII 31,41 PULL TUBING ON I 25,3 PREJORMEETING- 6,33 CHANGE HANDUN	BREFFORBRIEF 1 G EQUIPMENT 1 RIGELOOR 1 INTRECLUIPMENT 1 AND RECOURAGE 1 AND RECOURAGE 1 AND RECOURAGE 1 BREFFORBRIEF 1 G EQUIPMENT 1	O Projek meeting prior to POO'w wild S 12/7" biolog. Changed to S 12/7" go separative devotors, measured up meeting and fealiprock ready on Drill Observation received to the prior of the	NO 35/11 8-13 HT3 NO 35/11 8-13 HT3
1-66-19 Deepsea Affantic	03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30 22:15 22:00 21:45 21:30	03:15 03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:35 22:15 22:00 21:45	15 30 15 60 15 60 25 5 5 15 15	2776 2776 2276 2276 2276 2276 2276 2276	31,1 PULI TUBING 25,3 PREDOMETTING- 6,33 CHANGE HANDLU 38,01 CLEM AND CLEAR 31,1 PULI TUBING 12,11 ROLU TUBING 12,11 ROLU TUBING 12,11 ROLU TUBING 13,4 PULI TUBING 6,39 CHANGE HANDLU 31,4 PULI TUBING ON 1	BRET/CREAFE 1 G COUMMENT 1 BRETOOR 1 BRETOOR 1 HE EQUIPMENT 1 AND ROCKTRING 1 BRET/CREAFE 1 BRETOORNET 1 AND ROCKTRING 1 BRETOORNET 1	O Project meeting prior to POOP with \$1.27\transfer, compared to \$1.7\transfer, content of prior of prior of prior of prior of the common and the prior of prior of the common and the the common a	NO 35/11 8-13 HT3 NO 35/11 8-13 HT3
14-66-19 Deepsea Atlantic 15-66-19 Deepsea Atlantic	03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30 22:15 22:00 21:45	03:15 03:00 02:30 02:15 01:15 01:00 00:00 23:35 23:30 22:15 22:00	15 30 15 60 15 60 25 5 5	2776 2776 2276 2276 2276 2276 2276 2276	31,1 PULL TUBING 25,3 PREJORMEETING- 6,33 CHANGE HANDUN 38,01 CLEAN AND CLEAR 31,1 PULL TUBING 31,1 PULL TUBING 12,11 RIG UP CASING/LII 31,41 PULL TUBING ON I 25,3 PREJORMEETING- 6,33 CHANGE HANDUN	BRET/CREAFE 1 G COUMMENT 1 BRETOOR 1 BRETOOR 1 HE EQUIPMENT 1 AND ROCKTRING 1 BRET/CREAFE 1 BRETOORNET 1 AND ROCKTRING 1 BRETOORNET 1	O Projek meeting prior to POO'w wild S 12/7" biolog. Changed to S 12/7" go separative devotors, measured up meeting and fealiprock ready on Drill Observation received to the prior of the	NO 35/11 8-13 HT3 NO 35/11 8-13 HT3

03-feb-19 Deepsea Atlantic							
13-feb-19 Deepsea Atlantic	16:20	17:10	50	382	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Circulated with 1 SPM allowing pressure to slowly increase from 60 to 80 BARS. Stopped	NO 35/11 B-13 HT3
	12:45	16:20	215	382	31,41 PULL TUBING ON LANDINGSTRING	pump and allowed pressure to decrease to 60 BAR. Continued to pressure up with same 100 parameters and same pressures.	NO 35/11 B-13 HT3
3-feb-19 Deepsea Atlantic	12:00	12:45	45	382	31,41 PULL TUBING ON LANDINGSTRING	Pressured up against ASV to 20/30/40/60 and 80 BAR. Pressure bled through and allowed 100 pressure to decrease 20 BAR. Performed functiontest of diverter closing sequence. Pressured up against ASV to 20/30/40/60 and 80 BAR. Pressure libed through and allowed	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic -feb-19 Deepsea Atlantic	10:30 10:00	12:00 10:30	90	0	31,41 PULL TUBING ON LANDINGSTRING 31,41 PULL TUBING ON LANDINGSTRING	100 pressure to decrease 20 BAR 100 Pulled up and closed Annular with 1500PSI. Try to circulate through cut @ 2660m	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	00:00	10:00	600	0	31,41 PULL TUBING ON LANDINGSTRING	95 Discuss further operation. Wait on instructions. 100 Discuss further operation. Wait on instructions.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	22:30	00:00	90	2660	31,41 PULL TUBING ON LANDINGSTRING	Attempt to release spear, No GO. Worked up and down from 5-20T. With and without	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	19:15	22:30	195	2660	31,41 PULL TUBING ON LANDINGSTRING	100 torque up to 6kHm. Reduced Annular pressure 650PSI and slided string up and down 3 times from 379m to 383m upweight 143T down weight 110T. Increased Annular pressure and pumped up in	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	17:15	19:15	120	2660	31,41 PULL TUBING ON LANDINGSTRING	steps to 140bar/80T hookload, no return. Reduced Annular pressure 650PSI slided string 5	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	15:00	17:15	135	2660	31,41 PULL TUBING ON LANDINGSTRING	100 Discussed further operations.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	14:40 13:40	15:00 14:40		2660 2660	31,41 PULL TUBING ON LANDINGSTRING 31,41 PULL TUBING ON LANDINGSTRING	100 Pressured up string in steps of 20bar to max 100bar. No indication of circulation. 100 Waited for the elements on ASV to retract	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	13:30	13:40	10	2660	31,41 PULL TUBING ON LANDINGSTRING	100 Closed upper annular, opened lower annular and slided up 1,8m with 142ton upweight.	NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	12:00	13:30	90	2660	31,41 PULL TUBING ON LANDINGSTRING	100 Discussed further operations. Pumped down string and increaced STP pressure in steps T/100bar. No return on TT	NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	10:40	12:00		2660	31,41 PULL TUBING ON LANDINGSTRING	100 observed. Bled down pressure and discussed further operation.	NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	09:00	10:40	100	2660	31,41 PULL TUBING ON LANDINGSTRING	100 Islat down pressure on choice maintoid and discussed further operation. Started circulation and STP pressure increaced to steady 8 bar with no pressure build up on choice. Stop MPY and observe.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	08:30	09:00	30	2660	31,41 PULL TUBING ON LANDINGSTRING		NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	08:00	08:30	30	2660	31,41 PULL TUBING ON LANDINGSTRING	100 Bled down pressure and lined up for reverse circulation through choke manifold.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	07:00 06:30	08:00 07:00	60 30	2660 383	31,41 PULL TUBING ON LANDINGSTRING 31,41 PULL TUBING ON LANDINGSTRING	100 STP pressure steady 88bar with pumps off. Discuss further operation. 100 Increase STP pressure slowly to 100 bar, discuss further operation.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
Teb-19 Deepsea Atlantic	02:30	06:30	240	383	31,41 PULL TUBING ON LANDINGSTRING	Lined up to pump down string and up choke line. After pumped 300I observed SPP increased	NO 35/11 B-13 HT3
						against LAP, held pressure OK. Bleeded down pressure. Pulled casing up 2m with 140t Hookload. Observed pressure build up on choke to 148ar, bleeded down through choke. Closed in	
feb-19 Deepsea Atlantic	01:40	02:30	50	383	31,41 PULL TUBING ON LANDINGSTRING	100 again, pressure increased to 7Bar stable. Function tested BDP. Operated UAP and LAP with Blue pod from Drillers panel and yellow	NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	01:20	01:40	20	383	15,01 FUNCTION TEST BOP	100 pod from Todipusher panel.	NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	00:50	01:20	30	383	31,1 PULLTUBING	Took weights UP/Down- 88T/87T. Circulated with 150lpm/4bar RIH slowly, observed 100 pressure peak. Stopped pump, continued RIH and engage spear @383,9m MID sat down 7t.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	00:40	00:50	10	366	5 CIRCULATE AND CONDITION MUD	100 Take circulation parameters according to Baker 2001pm-5bar	NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic eb-19 Deepsea Atlantic	00:20 00:00	00:40 00:20	20 20	360 260	6,1 MAKE UP BHA 8,01 MECHANICAL REPAIRS	100 Cont. RiH with spear on 5 7/8" HWDP 0. Engage and secure guidering in derrick. Due to guidering to kelly disconnected.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	23:50	00:00	10	260	8,01 MECHANICAL REPAIRS		NO 35/11 B-13 HT3
rb-19 Deepsea Atlantic	23:00	23:50	50	260	6.1 MAKE UP BHA		NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	22:45 22:30	23:00 23:45	15 15	27 27	15,07 FUNCTION TEST DIVERTER 6.33 CHANGE HANDLING EQUIPMENT	100 F/U 5 //8" HWUP Sign from KCWM and MU same. RIH with 5 //8" HWUP down to 250m. 100 Functions test diverter. 100 Installed 5 //8" authories and auth doner.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	22:30	22.95	15	21	v,33 Charac nanuuro EQUIPMENT	100 Installed 5 7/8" autoslips and auto doper. P/U spear assy from RCWM Broke off pup and bumber sub. Maked up 5" DP sgl for spaceout. Maked up with pup and bumber sub again. Lubricated 5" sgl. RiH from surface to	NO 30/11 B-15 H15
eb-19 Deepsea Atlantic	21:30 21:15	22:30 21:30	60 15	27	6,1 MAKE UP BHA 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 27m 100 Prejobmeeting prior to P/U spear assy from RCWM	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic eb-19 Deepsea Atlantic	19:30	21:15	105	0	15.01 FUNCTION TEST BOP	100 Functions test BSR with Acustic and ROV.	NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic eb-19 Deepsea Atlantic	19:00 18:50	19:30 19:00	30 10	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF 25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejobmeeting with new crew on board. 100 Debrief after handling OWS tong and trolly main WC	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
eb-19 Deepsea Atlantic	17:30	18:50	80	0	12,11 RIG UP CASING/LINER EQUIPMENT	Installed OWS trolly in Main WC. Deck landed skidding flake on CW rails and loaded	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	17:15	17:30	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	100 Prejob meeting with involved personnel before P/U csg tong and belonging OWS trolly. 100 Cleaned and cleared driftfoor.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	16:50	17:15	25	U	38,01 CLEAN AND CLEAR RIGFLOOR		NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	45-45	16:60	~	0	6 22 CHANGE HANDLING POLITABLE	Placed mud funnel, installed master and bushings in WC. Mounted torque wrench on TD. 100 Meanwhile diplaced boost/kill/choke and Riser to 1,12sg Brine in co-operation with Mi.	NO 35/41 B 43 1773
feb-19 Deepsea Atlantic	15:45 14:45	16:50 15:45	65	0	6,33 CHANGE HANDLING EQUIPMENT 14,17 RIG DOWN BOP RUNNING EQUIPMENT	100 Installed bird table RCWM and L/D Riser spider to Riser deck.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	13:45 12:45	14:45 13:45	60 60	0	14,23 RUN, LP-RISER / DIVERTER 14,17 RIG DOWN BOP RUNNING EQUIPMENT	100 Innstall diverter. 100 Change to grippers on RGC and prepare to lift diverter to risercatwalk.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	12:15 12:00	12:45 12:15	30 15	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT 14.17 RIG DOWN BOP RUNNING EQUIPMENT	100 L/D RT 100 L/D landingint to deck.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	10:00	12:00	120	0	8,02 ELECTRICAL REPAIRS	O Troubleshoot RGC. Change encoder on RGC. Performed pressure test #4 and #6 of choke manifold to 20/1034 BAR. Part of ATP	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	09:30	10:00	30	0	34,1 ACCEPTANCE TEST	postponed due to need for BOP to be installed. Main well barried of due to high pressure in 100 lines.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	08:30	09:30	60	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Rigged down RHRT and changed to 6 5/8 inserts in elevator. Meanwhile performed	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	07:15	08:30	75	0	14,17 RIG DOWN BOP RUNNING EQUIPMENT	connector test 20/200 Bar 5/60 min. 100 Volume pumped: 970 ltr. Return volume: 842 ltr.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	07:00	07:15	15	0	25,3 PREJOBMEETING - BRIEF/DEBRIEF	Performed prejob meeting with dayshift prior to rig down BOP running equipment. Rigdraft 100 25m @ 07 00. Meanwhile performed connector test 20/200 Bar 5/60 min.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	05:30	06:00	30	0	14,31 HANDLE LANDING JOINT	Broke out and laid down Landing joint to RCWIM. Meanwhile ballast rig to drillingdraft 25 m. 100 Released Guide wires and pulled same to surface.	NO 35/11 B-13 HT3
-feb-19 Deepsea Atlantic	05:30	07:00	90	0	14,31 HANDLE LANDING JOINT		NO 35/11 B-13 HT3
						Stroked out N-line 2 m and started compensating. Adjusted N-line pressure. Landed BOP and sat down 30 ton. Locked connector and took 50 ton OP test. Unlocked innerbarrel and	
feb-19 Deepsea Atlantic feb-19 Deepsea Atlantic	04:30 03:45	05:30 04:30	60 45	0	14,3 LAND BOP 14,3 LAND BOP	100 Restabbed and connected guidepost 3 again . Sat all guidewires in CT 1,3 ton.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	03:30	03:45	15	0	14,3 LAND BOP	Established guidewire 1, 3,5 in guide posts , sat CT to 1,3 ton on guide post 3 , post released 100 unintentionally.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	02:45	03:30	45	0	24,98 MOVE RIG TO WELL/OFF WELL	Moved rig to well. Adjusted rig in cooperation with ROV. Meanwhile performed choke test 4 100 og 6 to 20/345bar for 5/10 min.	NO 35/11 B-13 HT3
feb-19 Deepsea Atlantic	00:00	02:45	165	0	14,1 PREPARE & RIGGING IN MOONPOOL	Arranged and prepared Umbilicals , reelwires and sheaves for landing of BOP. Removed basket from subsea guide trolly. Meanwhile performed Pressure test of kill and chokeline to 100 20/345 bar for 5/10 min.	NO 35/11 B-13 HT3
						Installed STR/gooseneck assy to Slipjoint according to procedure. Arranged and prepared Umbilicals , reelwires and sheaves for landing of BOP. Meanwhile deballast rig from 25 m to	
jan-19 Deepsea Atlantic	21:30	00:00	150	378	14,1 PREPARE & RIGGING IN MOONPOOL	100 23 m drillingdraft. Performed Pressure test of kill and chokeline to 20/345 bar for 5/10 min. Picked up and made up Landing joint. Continued RIS with BDP and position Slipjoint for	NO 35/11 B-13 HT3
an-19 Deepsea Atlantic	20:45	21:30	45	378	14,31 HANDLE LANDING JOINT	· · · · · · · · · · · · · · · · · · ·	NO 35/11 B-13 HT3
jan-19 Deepsea Atlantic	20:00	20:45	45	368	14,16 TELESCOPIC JOINT	Filled lines, Installed pressurecaps, Pressuretested kill and choke lines to 20/345 bar 5/10	NO 35/11 B-13 HT3
jan-19 Deepsea Atlantic jan-19 Deepsea Atlantic	18:20 16:15	20:00 18:20	100 125	346 346	14,11 PRESSURE TEST K&C LINES 14,19 RUN BOP WITH BUOYANG RISER	100 min. Tested boostline to 20/100bar 5/10 min. Removed pressurecaps. 100 RIS with BOP on buoyancy riser and 40ft Riser PJ	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
jan-19 Deepsea Atlantic jan-19 Deepsea Atlantic	14:40 14:30	16:15 14:40	95 10	219 210	14,1 PREPARE & RIGGING IN MOONPOOL 14,19 RUN BOP WITH BUOYANG RISER	100 Rigging up wires for support POD lines. 100 RiS with BOP on buoyancy riser.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
an-19 Deepsea Atlantic	13:20	14:40	70	196	14,19 KUN BUP WITH BUOYANG KISEK 14,11 PRESSURE TEST K&C LINES	Filled lines. Installed pressurecaps. Pressuretested kill and choke lines to 20/345 bar 5/10	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
an-19 Deepsea Atlantic	13:20 12:30 12:00	14:30 13:20 12:30	70 50 30	196 196 128	14,11 PRESSURE IEST K&C LINES 14,19 RUN BOP WITH BUOYANG RISER 14.19 RUN BOP WITH SLICK RISER	100 min. testaa boostinin to zuji 100ar 5/10 min. kemovea pressurecaps. 100 RtS with BOP on buoyancy riser. 100 RtS with BOP on slick riser.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
an-19 Deepsea Atlantic	12:00 11:10	12:30 12:00	30 50	105	14,19 RUN BOP WITH SLICK RISER 14,19 RUN BOP WITH SLICK RISER	100 RIS with BOP on slick risers.	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3
an-19 Deepsea Abantic	10:00	11:10	70	60	14,11 PRESSURE TEST K&C LINES		NO 35/11 B-13 HT3
	09:15	12:00	165	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 Main operation i AUX WC. Pulled HPC-RT to surface and secure same on XMT trolley. Lifted BOP from BOP trolley. Skided BOP off center. Adjusted rig. Ran BOP in UHG. Ran	NO 35/11 B-13 HT3
jan-19 Deepsea Atlantic				0	14,12 PREPARE TO RUN BOP	Lifted BOP from BOP trolley. Skided BOP off center. Adjusted rig. Ran BOP in UHG. Ran 100 guideanchers to 340 m sealevel. RIS with BOP. WOW due to too bod weather for maning BOP into sea. Meanwhile General maintenace.	NO 35/11 B-13 HT3
jan-19 Deepsea Atlantic	07:30	10:00	150			317 due to too and weather to resemble DOP into sea. Meanwrite General Maintenace.	
jan-19 Deepsea Atlantic -jan-19 Deepsea Atlantic -jan-19 Deepsea Atlantic -jan-19 Deepsea Atlantic	07:00	07:30	30	0	23,6 WOW NON DRILLING ACTIVITIES	WOW due to too bad weather for running BOP into sea. Meanwhile General maintenace.	NO 35/11 B-13 HT3
jan-19 Deepsea Atlantic -jan-19 Deepsea Atlantic				0	23,6 WOW NON DRILLING ACTIVITIES	WOW due to too bad weather for running BOP into sea. Meanwhile General maintenace. 75 Cleaned and cleared in drilling areas. WOW due to harsh weather for running BOP through splash zone. Meanwhile cleaned and	NO 35/11 B-13 HT3
Lian-19 Deepsea Atlantic	07:00	07:30	30			WOW due to too bad weather for running BDP into sea. Meanwhile General maintenace. 75 Cleaned and cleared in drilling areas. WOW due to harsh weather for running BDP through splash zone. Meanwhile cleaned and 75 cleared in drilling areas Consent amontaneance.	
jan-19 Deepsea Atlantic -jan-19 Deepsea Atlantic	07:00 00:00 17:00	07:30 07:00 00:00	30 420 420		23,6 WOW NON DRILLING ACTIVITIES 23,6 WOW NON DRILLING ACTIVITIES	WOW due to too bad weather for norming BOP finds as. Manamhile General maintenace. Science declared in Stilling area. SOP through splash zone. Manamhile classed and 75, cleared in drilling area. General maintenance. 10. Prepared for its with InDO. Prepared for filling diff of from table. Main operation in Aurit. Manamhile maintenance drilling explorate and classificities of difficult in the control of th	NO 35/11 B-13 HT3 NO 35/11 B-13 HT3

March Marc	10 10 10 10 10 10 10 10							Main operation in AUX wellcenter. Cleaned and cleared in drilfloor areas and derrick.	
March Marc	Part	29-jan-19 Deepsea Atlantic	19:00	00:00	300	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Assisted ROV. General maintenance. Robotic tested Robot. NOV work on aux DW in 100 cyberbase.	NO 35/11 B-13 HT3
1	Part							Assisted ROV. General maintenance. Robotic tested Robot. NOV work on aux DW in	
March Marc	Mary	9-jan-19 Deepsea Atlantic	15:15	19:00	225	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Main operation in AUX wellcenter. Cleaned and cleared in drillfloor areas and derrick.	NO 35/11 B-13 HT3
1	Part	9-ian-19 Deepsea Atlantic	12:00	15:15	195	0	43.05 MAIN OPERATION IN OTHER WELL CENTER		NO 35/11 B-13 HT3
10 December 100 10 10 10 1 1 10 10	18 December 19 18 18 18 18 18 18 18	9-jan-19 Deepsea Atlantic		12:00		0		100 Main operation in AUX Wellcenter.	
Part	Part	9-jan-19 Deepsea Atlantic	00:00	02:00	120	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 Assisted ROV. General maintenance. Welding on aux HR main arm.	NO 35/11 B-13 HT3
Part	Part	8-jan-19 Deepsea Atlantic	12:00	00:00	720	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Main operation in aux well. Meanwhile general maintenace in drilling areas. He-installed 100 guide for loops on main TD.	NO 35/11 B-13 HT3
19-10 19-1	100 100							Removed cmt manifold from AUX derrick. IFS work and general maintenace in drilling areas.	
19	10	8-jan-19 Deepsea Atlantic	00:00	12:00	720	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 DW. Rigged up for re-installing guide for loop system.	NO 35/11 B-13 HT3
Part	Part		12:00	00:00	720	0	43.05 MAIN OPERATION IN OTHER WELL CENTER	Main operation in aux. Rigged up new HP test hose to test rack for KC/IBOP on drillfloor.	NO 35/11 R-13 HT3
100 100	10 10 10 10 10 10 10 10							Main operation in Aux WC.	
Sept Department	1	7-jan-19 Deepsea Atlantic	00:00	12:00	720	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 drifffoor areas. General maintenance. Checked for ice in derrick.	NO 35/11 B-13 HT3
Part	Part	6-jan-19 Deepsea Atlantic	19:00	00:00	300	0	43,05 MAIN OPERATION IN OTHER WELL CENTER	Install riser spider and riser RT. P/U and M/U dbl 75ft riser int from RCWM.	NO 35/11 B-13 HT3
Part Description Part	Part							Main operation in aux well. Installed Baker sheave for control lines in derrick. Rigged up for	
April Properties Properti	Company of the Comp	26-jan-19 Deepsea Atlantic	12:00	19:00	420	0	43,05 MAIN OPERATION IN OTHER WELL CENTER		
Property Company property	Prof. Prof							Removed diverter and L/D same to deck. Builded side entry stand for use in AUX for retrieval of XMT. Prepared for running BOP. Dismantled torque wrench, installed lifting cylinder for	
100 100	19-1-1	6-jan-19 Deepsea Atlantic 15-jan-19 Deepsea Atlantic				0	43,05 MAIN OPERATION IN OTHER WELL CENTER 43,05 MAIN OPERATION IN OTHER WELL CENTER	100 RHRT. Lifted torque tools to drilfloor. Prepared test caps for riser. 100 Main operation in aux well.	
Page	April Depart Anton 100								
Section Company	1-1-1	tS-ian-19 Deepsea Atlantic	12:00	13:00	60	0	43.05 MAIN OPERATION IN OTHER WELL CENTER	5 7/8 HWDP and 1 stand 3 1/2" DP used on Yardstay. General maintenace on drillflor 100 equipment. Changed wire on aux electrical mannider. Pull test of Catheads on drillfloor.	NO 35/11 B-13 HT3
The Composition of Composition Compositi	An in Company of the Company of th	25-jan-19 Deepsea Atlantic	06:30	12:00	330	0	43.05 MAIN OPERATION IN OTHER WELL CENTER	100 Main operation in AUX WC.	NO 35/11 B-13 HT3
Control Department 1971 1982 1983 1983 1984 1985	California 1800 18	24-jan-19 Deepsea Atlantic	19:50	00:00		0	43,05 MAIN OPERATION IN OTHER WELL CENTER	100 Main operation in AUX	NO 35/11 B-13 HT3
14-14 16-1	April Depart March 180	4-jan-19 Deepsea Atlantic	19:20	19:50		0	25,22 DROP's Inspection	100 Continue drops inspection in drilling areas and on driling equipment.	NO 35/11 B-13 HT3
March Depart Action 1,000 1,00	March Depart March 100	4-jan-19 Deepsea Atlantic	18:25	19:00	20 35	0	25.22 DROP's Inspection	100 DROPS inspection in drilling areas and on drilling equipments.	NO 35/11 B-13 HT3
14-11 Supper Address 100	Part Depart March 190 14 15 15 15 15 15 15 15	4-jan-19 Deepsea Atlantic	15:00	18:25	205	0	24,6 YARDSTAY/MAINTENANCE STOP	100 Main operation in aux well.	NO 35/11 B-13 HT3
Page	Page	24-jan-19 Deepsea Atlantic	14:00	14:30		0	24,6 YARDSTAY/MAINTENANCE STOP	100 Performed ATP ACS with ROBOT in main.	NO 35/11 B-13 HT3
Part Company Andrew 193	Part Company Address 133 128 9	24-jan-19 Deepsea Atlantic			120	0		100 Main operation in aux well. Robotic tuning ROBOT.	
Part 1	Section 1982 1989								
Part Designed Address	Part Designed Authors Control					0		POOH with 1 stand 5 7/8 HWDP, broke out XOS, broke out and laid down 4 sgl 9 1/2" DC to RCWM, broke out bitsub and bit, racked back 1 stand 9 1/2" DC stand. Performed HT and	
Part	Paper Designer Attention 12 10 12 12 13 13 13 14 14 15 15 15 15 15 15	24-jan-19 Deepsea Atlantic	06:30	10:30	240	0	24,6 YARDSTAY/MAINTENANCE STOP		
Part	Page 12 Page 24 Page	24-jan-19 Deepsea Atlantic	04:15	06:30	135	0	24,6 YARDSTAY/MAINTENANCE STOP		
14-10-13 Degress Affertic 10-10	Part Depart Affects 12:00 0.0	24-jan-19 Deepsea Atlantic	03:30	04:15	45	0	24,6 YARDSTAY/MAINTENANCE STOP		NO 35/11 B-13 HT3
Page	April Degree Affance 130 13 13 13 13 13 13 1							Disconnect TD from pipe to avoid pendling in moonpool during rotation test. Set 50 bar on	
Page 15 Degree Affants Color C	Page 12 Decision Ministry Control Contro	24-jan-19 Deepsea Atlantic	02:00	03:30	90	0	24,6 YARDSTAY/MAINTENANCE STOP	IBOP and maintain during test. Rotate with 250 rpm and monitore until stabile temperatures	
Page 15 Degree Affants Color C	Page 12 Decision Ministry Control Contro							Torque test on TD main using rig tong and 25 ton load cell. Record weights. 22 kNm on TD elves 2700 ke on load cell., calculated to 24 4 kNm on TD have 470 km on TD have 470 km.	
24 page 3 Despess Allerity 0.00	14 14 15 Depairs Affantic 10 10 10 10 10 10 10 1	24-jan-19 Deepsea Atlantic	01:00	02:00	60	0	24,6 YARDSTAY/MAINTENANCE STOP	0 calculated to 56,1 kNm. 51 kNm on TD gives 5500 kg on load cell - calculated to 70,1 kNm.	NO 35/11 B-13 HT3
Page 20 Program Allering P	Page 15 Despise Affects Color							all 4 MP with 5000 lpm / 74 bar for 1 hour and check stabile temperature on crossheads,	
Convent To Pump with much pump according to APP procedure. The device 19th Training pump and pump according to APP procedure. The device 19th and the control of Training pump and pu	Content To Image with multi-primits according to All Parameters Law data of the first first programme, considerable of the control and the c	24-jan-19 Deepsea Atlantic	00:00	01:00	60	0	24,6 YARDSTAY/MAINTENANCE STOP	Mode 3. Pumos available, but not able to operate MP. Held prejobmeeting for use of	NO 35/11 B-13 HT3
Page	Page								
23 20 20 20 20 20 20 20	Page							pumps individualy and in sync with different rates to compare readings. Count SPM on each	
Part	Professional State Perspectations of the Control of Perspectations of the Control of State 1 (1997) and 1 (19							pump with different rates. Test Standolpe Pressure Limiting Mode to hold 50 bar and to stop	
Part	Professional State Perspectations of the Control of Perspectations of the Control of State 1 (1997) and 1 (19	23-jan-19 Deepsea Atlantic	22:30	00:00	90	0	34,1 ACCEPTANCE TEST	at 19 bar against crosses incir. Here my interiorss, start to pump with all 4 MP with 5000 lpm g / 74 bar for 1 hour and check stabile temperature on crossheads, main bearing ect.	NO 35/11 B-13 HT3
23 pois 10 Designes Allested. 24	239-35 Deepsu Affance 200 23-20 120 0 3.1.4 ACCEPTANCE TEST 0 Performed APP Test according in Principan (CODE on pt NVM) and and down to bit. ON 51/18 3.11 H171							Performed ATP prejobmeeting prior to RIH and start ri hoisting system, MP and TD test. RIH	
Pages Designed Atlance 15-30 18-00 150 150 150 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150 151 18-00 150	Signed State Signed Attending Signed State					0	34,1 ACCEPTANCE TEST 43.05 MAIN OPERATION IN OTHER WELL CENTER	 Performed ATP Test according to Program/DOP. 	
23 pis-19 Despotes Allemin: 150 150 0 151 AL ACCEPTANCE TEST CEST of pack and manual region of the foliate CEST Company of the CEST COMPANY OF T	23 24 25 Compare Allement 1.5	,	20.00		110	_	JIIIA WELL-LATER	Rigged down CSG equipment in main. Lifted CSG tong to RCWM skid and down to deck.	
239-9-10 Despera Affantic 120 150	13-99-15 Despose Affantic 1-20							operation to handle CSG tong out/in main well center from RCWM , but not able to transfer	
## APT TE Seam DROPP, Check of TO Just and main, Commissioning on audit to pitch 12	23 26 26 26 26 26 26 26	23-jan-19 Deepsea Atlantic	15:30	18:00	150	0	34,1 ACCEPTANCE TEST	0 test ATP.	NO 35/11 B-13 HT3
239-9-39 Despeta Adlantic 100 1200 100 0 3.4, A CCEPTANCE TEST 50 and Cert Coning with Consigning Cert on 16 The Test Design State Membrane (1997) 100 100 100 14, A CCEPTANCE TEST 50 and Cert Coning with Consigning Cert on 16 The Test Design State Membrane (1997) 100 100 100 14, A CCEPTANCE TEST 50 and the Cert Coning with Consigning Cert On 16 The Test Design State Membrane (1997) 100 100 100 14, A CCEPTANCE TEST 50 and the Cert Cert on With Consider for Membrane (1997) 100 100 100 14, A CCEPTANCE TEST 50 and the Cert Cert on With Consider Cert Cert Cert Cert Cert Cert Cert Ce	139-9-19 Despera Atlanet. 1-00 120							APT TT team DROPS check of TD aux and main. Commissioning on auto triptank	
13 10 10 10 10 10 10 10	13-9-15 Despeta Albertic 92-30 11-00 92-31 11-00 93-14 ACCEPTANCE TEST 94-40 44-40 94-40							n Test fingerhard with 14" casing due to ATP test prosedure	
Perform ATT of control system. Perform internal Coding and Perform ATT of control system. Perform Internal Coding and Perform ATT of control system. Perform internal Coding and Perform ATT of control system. Perform internal Coding and Perform ATT of control system. Perform internal Coding and Perform Intern	22 jan 3 Despusa Atlantic. 23 jan 9 Despusa Atlantic. 24 jan 9 Despusa Atlantic. 25 jan 9 Despusa Atlantic. 26 jan 9 Despusa Atlantic. 27 jan 9 Despusa Atlantic. 28 jan 9 Despusa Atlantic. 29 jan 9 Despusa Atlantic. 29 jan 9 Despusa Atlantic. 29 jan 9 Despusa Atlantic. 20								
Perform AT 27 diseases advanced. 22 jan-19 Despose Advanced. 23 jan-19 Despose Advanced. 24 jan-19 Despose Advanced. 25 jan-19 Despose Advanced. 26 jan-19 Despose Advanced. 26 jan-19 Despose Advanced. 27 jan-19 Despose Advanced. 28 jan-19 Despose Advanced. 28 jan-19 Despose Advanced. 29 jan-19 Despose Advanced. 29 jan-19 Despose Advanced. 20 jan-19 Despose Advanced. 21 jan-19 Despose Advanced. 22 jan-19 Despose Advanced. 23 jan-19 Despose Advanced. 24 jan-19 Despose Advanced. 25 jan-19 Despose Advanced. 25 jan-19 Despose Advanced. 26 jan-19 Despose Advanced. 27 jan-19 Despose Advanced. 28 jan-19 Despose Advanced. 29 jan-19 Despose Advanced. 29 jan-19 Despose Advanced. 29 jan-19 Despose Advanced. 20 jan-19 Despose Advanced. 21 jan-19 Despose Advanced. 22 jan-19 Despose Advanced. 23 jan-19 Despose Advanced. 24 jan-19 Despose Advanced. 25 jan-19 Despose Advanced. 26 jan-19 Despose Advanced. 26 jan-19 Despose Advanced. 27 jan-19 Despose Advanced. 28 jan-19 Despose Advanced. 29 jan-19 Despose Advanced. 29 jan-19 Despose Advanced. 20 jan-19 Despose Advanced. 20 jan-19 Despose Advanced. 20 jan-19 Despose Advanced. 20 jan-19 D	22 jan 3 Despusa Atlantic. 23 jan 9 Despusa Atlantic. 24 jan 9 Despusa Atlantic. 25 jan 9 Despusa Atlantic. 26 jan 9 Despusa Atlantic. 27 jan 9 Despusa Atlantic. 28 jan 9 Despusa Atlantic. 29 jan 9 Despusa Atlantic. 29 jan 9 Despusa Atlantic. 29 jan 9 Despusa Atlantic. 20	23-jan-19 Deepsea Atlantic	07:20	09:20	120	0	34,1 ACCEPTANCE TEST	u wack back 14" casing. 0 Make up one std with 14" casing with CRTi and FMS according to ATP procedure.	NO 35/11 B-13 HT3
Perform ATP of Greater against perform section of the and as TO. ATP of Greater and Consult sequence is a believe to the performance of the perfor	Purform ATP of divertine system. Purform internal Coding and To ATP on the care and the Topic and Consultation and Topic and Consultation and Topic and Consultation and Topic and Consultation and Suggest as 97 CES dissipation and the superior in mail. Chapter from IR. of the 10.3 of mail. Spring of the Topic and Consultation and Suggest as 97 CES dissipation in mail. Chapter from a not mail. **Topic and Consultation and Consul	23-jan-19 Deepsea Atlantic				0	34,1 ACCEPTANCE TEST	0 Rig up 14" casing equiptment in main due to ATP test.	NO 35/11 B-13 HT3
bold 5 ft CG Grand and rax both case in Respectable (i.e., and any complete or	Designed Allering 23 join 30 Designed Allering 24 join 30 Designed Allering 25 join 30 Designed Allering 26 join 30 Designed Allering 27 join 30 Designed Allering 28 join 30 Designed Allering 29 join 30 Designed Allering 20 join 30 Design								
as Rigged og 14 CG Sequence in man Cuprelled CG tog age through the man August of the SEA In man Spittled CG tog age through the man August of the Man August of the SEA In man Spittled CG tog age through the man August of the Ma	aux. Rigide of PCT (City despinent in man. Changed from ER-10 BA3 in man. Spittler GGS to top to be fasted by transitive arm on well. Under goar per common well. Under goar per common well. The days are many self-under goar per common well-under goar per com							reaminding interlocks on HRs and aux TD. ATP on Floor and Crown saver AUX well. ATP on	
Long to be able to transfer some with Life opport of the man were the DCMM and were the transfer of the man were the DCMM and were the DCM	23 pilo 37 Designes Alfantic. 00:00 07:00 420 0 34.1 ACCEPTANCE TIST 0 transparent for large year. Microscope transparent for from save well. Until degree part from an awell. College and the control of the part from an awell. College and the college and							aux. Rigged up 14" CSG equipment in main. Changed from BX-4 to BX-3 in main. Splitted CSG	
22 gas 3D Despute Affantic. 0.000 07 700 420 0 34,1 ACCEPTANCE TEST operation for the company of	22 join 39 Despises Affairet. 12 you 19 Despises Affairet. 13 you 19 Despises Affairet. 14 you 19 Despises Affairet. 15 you 19 Despises Affairet. 16 you 19 Despises Affairet. 17 Despises Affairet. 18 Despises Affairet. 19							tong to be able to transfer same to main well. Lifted upper part from aux well to PCWM and	
22-jan-19 Despises Adminit: 0000 0700 430 0 34 ACCPTANCETEST 0 is installed PMS in manue. M. 100 155/11 8-13 HTZ Perform AT PL of cheerer system. Perform internal Original AT of all interlocs to published. Close pount from AT PL or cheerer system. Perform internal Original AT of all interlocs to published. Close pount from AT PL or cheerer system. Perform internal Original AT of all interlocks on published. A company of the published of the	22 jan 37 Despare Atlantic 000 17 00 12 0 34 6 VARDSTAY/MANTEMAKE STOP 0 Inschale PMS in many and process of production of the process of the							well. Lifted Upper CSG tong part from RCWM and mounted same on lower part in main well.	
Cope grant from ATT 20 colored available. We will have 400 software in recognition from the Cope grant from ATT 20 colored available from which have 500 software in recognition from the Cope grant from ATT 20 colored available from the Cope grant from ATT 20 colored available from the Cope grant from the	Cosp pand from AT Part Order member May have Workmare. Presuments challed a middle of 20 May 75 min and 20 May 75 min an	23-jan-19 Deepsea Atlantic	00:00	07:00	420	0	34,1 ACCEPTANCE TEST		
Cope grant from AT 7 or choler analysis. We will have 20 to define the recoverance chole and experimental control of the part of the recoverance choler and produced in part of the recoverance choler and produced i	Cosp pand from AT Part Order member May have Workmare. Presuments challed a middle of 20 May 75 min and 20 May 75 min an								
manifed to 20 Justy nin and 2016 barry 10 min and 2016 barry 10 mi	manifeld to 20 Bary). Final state of the Misself of the Wilder Mis								
to perform where 00 installed Perform delayer act on delificacy land and output makes are all the delayer act. Clear AT pand them on main with we CRAM ACK and a control of the control of	Despute Atlantic To 20 00 00 720 0 24.6 YARDSTAYMANTEMINEC STOP 0 0 24.6 YARDSTAYMANTEMINEC STOP 0 0 0 24.6 YARDSTAYMANTEMINEC STOP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							manifold to 20 bar/5 min and 1034 bar/10 min with Koomey unit. 2 tests remaining - need	
elevator vs. aux Hill, general ACC. Works and that auto ligrative sparts. Remote scribiding in derivator vs. aux Hill, general ACC. Works and that auto ligrative sparts are consisted of the processor of the sparts of the spart	elevator vs. as if large or an ACL You can off to a dis Departs kyeller. Memory appealing link of the property of the Visit Remove and Departs kyeller. Memory appealing link of the Pollars in Remove and Departs kyeller. Memory and the Visit Remove and Departs kyeller. Memory and th							to perform after BOP installed. Perform deluge test on drillfloor/shaker/moonpool. Clean	
in derick port of the Remova cames C18 day for powerfolding porting into R. Politist Burden of the Remova cames C18 day for powerfolding porting in Ex. Politist Burden of the Remova cames C18 day for powerfolding porting in Ex. Politist Burden of the Remova cames C18 day for powerfolding porting in Ex. Politist Burden of the Remova cames C18 day for powerfolding porting in Ex. Politist Burden of the Remova cames C18 day for powerfolding porting in Ex. Politist Burden of the Remova cames C18 day for powerfolding powerfolding in Ex. Politist Burden of the Remova cames C18 day for powerfolding powerfolding in Ex. Politist Burden of the Remova cames C18 day for powerfolding powerfolding in Ex. Politist Burden of the Remova cames C18 day for powerfolding powerfolding powerfolding in Ex. Politist Burden of the Remova cames C18 day for powerfolding powerfold	leading port all foods. Service command CER data to powerfologo profiling into E. Politers and the powerfologo profiling into E. Politers and E. Politers							and clear in shaker area after deluge test. Close ATP punch items on main HR vs PCWM ACS, elevator vs aux HR upper arm ACS. Work and test auto triotank system. Remove craffoldine	
torquerwents. Work with medical in reagons if the ordinar claims and fast after with the control of the control	Separation of the comment of the com							in derrolk port aft level 6. Remove camera C19 due to powerloop pendling into it. Polster	
1 sheave for umblicid in morgani. Work with ELBeds off calcute. Cliniars in DRIFS critical in marginal course. Cliniars and cliniar and cl	Shewer for umblical in imageous (Work with TELVISE deed For Climber Climber (DIST) Climber and Climber							sharp edges in derrick due to powerloop pendling into it. Change couplings on torquewench. Work with mudbucket to operate it from drillers cabin. Accid Aker with	
22 jan 93 Deeppea Alfantic 200 000 700 120 34 VABOTIAN/MAINTEMANCE STOP 9 0 define clabs. NOV own with T1 acts options. Changed indiplicatic boson on businesses. No 35/118-33 HT2 Personal Program Alfantic 200 000 120 120 120 120 124 VABOTIAN/MAINTEMANCE STOP 10 define clabs. No 10 120 120 120 120 120 120 120 120 120	22 gain 3 Deeppera Alfantic 12:00 00:00 72:00 34,6 FANDSTAY/MAINTEMANCE STOP 0 distinct colon. NOV war with TT and operate inches profession for the controlled Work with TT and operate inches profession for the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the controlled Work with the AD Windows Preserved And the Controlled Work with the AD Windows Preserved And the Controlled Work with TEAR with the AD Windows Preserved And the Controlled Work with TEAR with the AD Windows Preserved And The AD AND Confidence systems and the AD Windows Preserved And The AD AND Confidence systems and the AD Windows Preserved And The AD AND Confidence systems and the AD Windows Preserved And The AD AND Confidence systems and the AD Windows Preserved And The AD AND Confidence systems and the AD Windows Preserved And The AD AND Confidence systems and AD Windows Preserved And The AD AND Confidence systems and AD Windows Preserved And The AD AND Confidence systems and AD Windows Preserved And The AD AND Confidence systems and AD Windows Preserved And The AD AND Confidence systems and AD Windows Preserved And The AD AND Confidence systems and AD Windows Preserved And The AD AND Confidence and AD Windows Preserved And The AD AND Confidence and AD Windows Preserved And The AD AND CONFIDENCE A							sheave for umbilical in moopool. Work with EX bleed-off cabinet. Climbers DROPS check in	
Perform ATP of deverter system. Perform internal Coffeel ATP of all seriods con distillion. Code point from ATP of deverter system. Perform internal Coffeel ATP of all seriods con distillion. Code point from ATP of other authority with the ATP of other	Perform ATF of devires gratem, Perform internal Colligit ATF of all interfaces on difflior. Cleap people from ATF of devires gratem, Perform internal Colligit ATF of all interfaces on difflior. Cleap people from ATF or other meables Work with base Ver Verforms, Personal Clear in Colligit ATF or other meables Work with base Very Atfract, Personal Clear in Colligit ATFract, Personal Clear atfract, Personal Clear in Colligit	22-jan-19 Deepsea Atlantic	12:00	00:00	720	0	24,6 YARDSTAY/MAINTENANCE STOP	derrick. RDS tune robot on drillfloor. Repair emergency stop on manrider. Clean and clear 0 driller cabin. NOV work with TT auto system. Chanced hydraulic hoses on Mind hunker	NO 35/11 B-13 HT3
Cose grund from ATT or mother amounted. Very within an OW offenance Prescriptor challe manifolds and building and a second from ATT or mother amounted. We within an OW offenance Prescriptor challed manifolds and building and an offenance Prescriptor and Cost of the ATT of th	Cicle panel from ATP on Order models Work with Sea OW officiare. Presuments challed and the company of the comp	,							
In another to a present the present the present the present to personal to 20 July 70 min and 1019 kel/10 min min the Scoreine, unit. 2 better teaminer, resed to personal to 20 July 70 min and 1019 kel/10 min with Scoreine, unit. 2 better teaminer, resed to personal the present the	Lipon 5 Deeplas Atlantic Co 20 M 7 Pull Processing Control Con							rentorm ATP or diverter system. Perform internal Odfjell ATP of all interlocks on drillfloor. Close punch from ATP on choke manifold. Work with aux DW software. Precuretest choke	
and date in shaker was after delayer SEC. Close ATP point Risers on main wife K-YOM ACS, elected for an ellipse many after delayer SEC. Close ATP point Risers on main wife K-YOM ACS, elected for a least of the point Risers on SEC. Close Countings on SEC. Close Clo	and claim in halaker may earlier delings test. Close AT granth Botton on mask the Y-RWA MCS, elective to a war flooger or mAS for this set and the Signature of Signat							manifold to 20 bar/5 min and 1034 bar/10 min with Koomey unit. 2 tests remaining - need	
elector vs. au Hill upper am ACT. Work and the state of register legent commence calleding in device to a unit of upper am ACT. Work and the state of register legent commence (25 design person personal state) in device case and in device of a state of present specific pointing in the Charge considering of the Charge considering	elevator vs. as M till opper am ACS. Vide and stote and originate system. Remove cathoding in derivator vs. as M till opper am ACS. Vide and stote and originate system. Remove cathoding in derivative services and the services of definition. Clean and other services of definition. Clean and oth							to perform after BUP installed. Perform deluge test on drillfloor/shaker/moonpool. Clean and clear in shaker area after deluge test. Close ATP numb items on main HP PCHMA ACC.	
	1							elevator vs aux HR upper arm ACS. Work and test auto triptank system. Remove scaffolding	
togoverench. Work with multipoint of togoverench. Work with multipoint of togoverench. Work with the Elected Trades Claims and Electron Command General Command Genera	to personnel Afford to operate Afford to 12 00 1							in derrolk port aft level 6. Remove camera C19 due to powerloop pendling into it. Polster	
22 pin 19 Deepus Atlantic	22 pin 5 Despine Atlantic 23 pin 9 Despine Atlantic 24 pin 9 Despine Atlantic 25 pin 9 Despine Atlantic 26 pin 9 Despine Atlantic 26 pin 9 Despine Atlantic 27 pin 9 Despine Atlantic 28 pin 9 Despine Atlantic 29 pin 9 Despine Atlantic 20 pin 9 Despine Atlantic 21 pin 9 Despine Atlantic 22 pin 9 Despine Atlantic 23 pin 9 Despine Atlantic 24 pin 9 Despine Atlantic 25 pin 9 Despine Atla							torrougwrench. Work with mudburket to operate it from drillers rabin. Assist Aker with	
22 jais 19. Despises Atlantic 07:00 12:00 10:00	22 jain 3 Deepara Atlantic 0720 1200 300 0 34,6 VARDSTAY/MANITEMANCE STOP 0 online colon 300 Miles described to 25 Miles and 26 Miles and 27 Miles a							sheave for umbilical in moopool. Work with EX bleed-off cabinet. Climbers DROPS check in derrick. Repair emergency stop on magnifier. RDS time robot on drillfloor. Climp and client.	
Performed ATP on emergency dags on Man and wax ATP of contragrecy and by product and an another invalidation of the contract and by product and by product and by product and by product and an another on cellistrics. I and by 37 his way between a man and an another on cellistrics. I and by 37 his way between a man and by the contract and by th	Performed ATP on emergency caps on Atlantic ATP and extended and TP of extended and ATP of extended and the plantate conditions of the plantate of the plantage of the plantag	22-jan-19 Deepsea Atlantic	07:00	12:00	300	0	24,6 YARDSTAY/MAINTENANCE STOP	0 driller cabin	NO 35/11 B-13 HT3
	destrict manufact or collaboration. Out of 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							NOV and odfjell electronics troubleshot on ADW. Performed ATP on Anti-collision system main and aux. ATP on 1 electrical and 1 hydraulic magnides which on driffloor. ATP on	
22-jais-19 Despisse Atlantic 00:00 07:00 420 0 24,6 YABOSTAY/MANTEMANCE STOP 0 min. NO.35/11 8-13 HT2 Performed ATP on emergency stops on Main and Aca well center according to Test program. Performed ATP on emergency stops on Main and Aca well center according to Test program. Performed ATP failure will floor and cross saver. NOT recollected on operationally Capture Performed ATP failure will floor and cross saver. NOT recollected on operationally Capture NO.35/11 8-13 HT2 ATP for instance districtor to \$5 this < 4.6 Perform hopping of districtor \$1.0 this capture is the saver of the saver	22 29:0-9 Despines Atlantic 000 07:00 430 0 346 FARSOTAY/MANITEMANCE STOP 0 min. NO 35/13 8-33 HT3 Professional TP on energistry, draps on Malls and Aux well center according to the darget professional to the control of the contro							electrical manrider on cellardeck. NOV work on RCWM. Ran 1 stand 5 7/8 hwdp through and	1
Performed ATP Main will floor and crown saver. MVD troubleated on operational PC system 19-45 00:00 255 0 24,6 YARDSTAY/MAINTENANCE STOP (flux and word (floor and or Communication Computation Computation Computation Computed (flux or PCM). ATP for leastest disturber to \$5 to -6. Perform Diodyness of disturber to -6. Perform Diodyness of disturber to \$5 to -6. Perform Diod	Performed ATP Main well floor and crown sours. NOT readerated on operating FC years 19:45 00:00 255 0 34.6 YARDSTAY/MAINTEMANCE STOP of that and with proprietor facility because Chapter to 15 Stars / on 15 Maintenance Chapter (Storing Volume on KVM. M. NO 35/18 ±3 HT3 ATT for leastested without the 35 Stars / oil. Feeding monitoring of which well all administrations from the company of the com			07:00	420	0	24,6 YARDSTAY/MAINTENANCE STOP		NO 35/11 B-13 HT3
21-jan-9 Deepsea Atlantic 19-45 00:00 255 0 24,6 YARDSTAY/MAINTENANCE STOP 0 fault and AMIND position fault place fault en alknown for INFO. Mayor of united valve on in INFO. 35/11 8-13 HT3 ATP for laiklast of devent for 55 25 and - oil. Perform bodylest of devent for 55 25 and - oil. Institution of the control of the c	12 jain 19 Deeppea Albantic 19.45 00.00 255 0 24,6 YARDSTAY,MAINTEMAKE STOP 0 fourth and AVID position fault/from Dault/from Dault/f	22-jan-19 Deepsea Atlantic	00:00					Barformed ATR on americancy stops on Main and Aux well contar according to Test program	
Ari or measures un source un so que en entre france de la companie	squence in opherbase. C Weld new door on Expanse for blade of d'unive. Install oprotection cabinets on HR lower trolleys. C ison and diese d'artifletor. Titrobleshoot on diverter closing sequence. Equinor crimère team perform DRDF's d'edernic DPT M suring on prisége. MOV	22-jan-19 Deepsea Atlantic	00:00					Parformed ATR Major well floor and crown cause MOM troubleshed on cohorbace(BLC custom	
company in pulperhase C. Wield new door on EV annual for bland affirm to the second and the second affirm to the second and the second and the second affirm to the second and the second	squence in opherbase. C Weld new door on Expanse for blade of d'unive. Install oprotection cabinets on HR lower trolleys. C ison and diese d'artifletor. Titrobleshoot on diverter closing sequence. Equinor crimère team perform DRDF's d'edernic DPT M suring on prisége. MOV			00:00	255	0	24,6 YARDSTAY/MAINTENANCE STOP	Performed ATP Main well floor and crown saver. NOV troubleshot on cyberbase/PLC system or fault and AWD position fault from fault. Changed shuttle valve on RCWM.	NO 35/11 B-13 HT3
cabinets on HR lower trolleys. Clean and clear drillfloor. Troubleshoot on diverter closing	sequence. Equinor climber team perform DROPS in derrick. DP TM tuning on bridge. NOV			00:00	255	0	24,6 YARDSTAY/MAINTENANCE STOP	Performed ATP Main well floor and crown saver. NOV troubleshot on cyberbase/PLC system o fault and AWD position fault/prox fault. Changed shuttle valve on RCWM. ATP for leaktest diverter to 35 bar - ok. Perform bodytest of diverter to 52 bar - ok. Install chains on weight compensator cylinders. Setup ACS on robot. Work with automatic triptank	NO 35/11 B-13 HT3
sequence. Equinor climber team perform DROPS in derrick: DP TM tuning on bridge. NOV	LE-pair-LEP UNIQUE ANAIHUL 12:UU 19:45 465 U 24,6 YAKUSTAY,MAINTERANCE STUP 0 WORK WITH ACS SYSTEM. NO 35/11 8-13 HT3			00:00	255	0	24,6 YARDSTAY/MAINTENANCE STOP	Performed ATP Main well floor and crows saver. NOV troubleshot on operbase/PLC system four an AVMD position furthyrone studt. Changed shorts valve on RCVMM. ATP for leakest diverter to 35 bar - ok. Perform bodyrest of diverter to 52 bar - ok. Install chains on weight compensator cylinders. Sethy ACS on nobeb. Work with automatic tripsator, squence in opherbase C. Weld new door on Expansel for bland off walve. Install protection cabinets on RR lower trollysic. Claim and claim of thild floor. Troubleshoot on othermst closing.	NO 35/11 B-13 HT3

						Troubleshot on elevator on aux TD.Troubleshot on TT system, adjusted new valves on TT	
						system, ok. Changed wire on main electrical manrider wire. Attempted to pressure test	
						diverter, No go , leak through flow line valve. Continued work on flowline valve. Calibrated	
21-jan-19 Deepsea Atlantic	00:00	12:00	720	0	24,6 YARDSTAY/MAINTENANCE STOP	0 HRs with 14" CSG in remaining fingers. Changed wire on hydraulic manrider on drillfloor.	NO 35/11 B-13 HT3
						Troubleshot on TT system. Changed wire on main electrical manrider wire. Troubleshot on elevator on aux TD. NOV troubleshot on Aux DW, not able to calibrate height. Calibration	
	22:25					n height ADW ok. Continue to repair valve on flowline.	
20-jan-19 Deepsea Atlantic	22:25	00:00	95	0	24,6 YARDSTAY/MAINTENANCE STOP	g meight ADW dx. Continue to repair valve on nowine.	NO 35/11 B-13 HT3
						Anchorhandling arrival at Fram field. Rig at 25 m draft at 2200 hrs. Anchor handling	
						finnished at 22.25 hrs. Meanwhile continue to repair valve on flowline. Clean and clear on	
						drillfloor and remove equipment in derrick. Installed washpipe in aux TD. NOV work on	
						elevator and retract function main TD. Troubleshot on TT system. Changed wire on main	
						electrical manrider wire. NOV work on RCWM. Trouble shot on elevator on aux TD. NOV	
20-ian-19 Deepsea Atlantic	18:00	22:25	265	0	24.2 ANCHOR HANDLING ARRIVAL	O troubleshot on Aux DW. not able to calibrate height.	NO 35/11 B-13 HT3
						DP trails and de-ballast rig. Meanwhile calibrate casingboard with 14" casing with main HR.	
						Troubleshoot on risercatwalk machine. Scaffolders remove scaffolding in derrick. Test MIP's	
						from mode 2 and mode 5 in cyberbase. ATP on choke manifold. P/U and install diverter.	
20-jan-19 Deepsea Atlantic	12:00	18:00	360	0	24,73 DPTRIALS	g Attempt to pressuretest diverter to 51 bar. Repair leakage on actuator on flowline valve.	NO 35/11 B-13 HT3
						DP trails and de-ballast rig. Meanwhile calibrate casingboard with 14" casing with main HR.	
						Troubleshoot on risercatwalk machine. Scaffolders remove scaffolding in derrick. Test MIP's	
20-jan-19 Deepsea Atlantic	09:45	12:00	135	0	24,73 DPTRIALS	0 from mode 2 and mode 5 in cyberbase. ATP on choke manifold.	NO 35/11 B-13 HT3
20-jan-19 Deepsea Atlantic	00:20	09:45	565	0	24 IN TRANSIT / SKID RIG	0 In transit til Fram field.	Yardstay CCB december 20:
						Installed washpipe on Main TD. Pressure tested standpipe to 517 bar. Troubleshot on	
						elevator aux TD. Tighten nut on kellyhose on TD side on aux TD. NOV work on interlocks on	
20-jan-19 Deepsea Atlantic	00:00	00:20	20	0	24,6 YARDSTAY/MAINTENANCE STOP	0 auxTD.	Yardstay CCB december 201

F. DSA Unit Specific Energy Management Plan



DSA - Unit Specific Energy Management Plan - USEMP

DSA - UIIIC	DSA - Unit Specific Energy Management Plan - USEMP								
Grading:	OPEN	Company Managemen	t System						
		Hard copies of this proced uncontrolled copies	dure are s.						
DSA	DSA - Unit Specific Energy Management Plan – (USEMP) L4-MODU-DSA-E-MA-308								
		I province							
CHAP. NO	DESCRIPTION	REV. NO	DATE						
All	New procedure	1	i						



DEFINITIONS AND ABBREVIATIONS

AHDD	Active Heave Dual Drawwork
	Active fleave Duai Diawwork
Client	Operator Company
CMS	Company Management System
CO ₂	Carbon dioxide
	The term CO ₂ is chemistry shorthand for molecules containing one
	carbon atom and two oxygen atoms.
	CO ₂ is a colourless, odourless, non-combustible greenhouse-gas that
	contributes to global warming. It is formed by complete combustion of
	fossil fuels (coal, charcoal, natural gas, petroleum) and carbon
	containing products (such as wood). It is one of the greenhouse gases
CTC	and it is said to be the cause of changes in global climatic patterns.
CTS DnV	Cuttings Transport System
DP	Det norske veritas
	Dynamic Positioning
DSA	Deepsea Atlantic
EnMS	Energy Management System
EnPI	Energy Performance Indicators EnPIs are quantitative, i.e. measurable values of energy performance,
	which are defined by the organisation i.e. key indicators representative
	of what the organisation is trying to achieve.
	The term EnPI is introduced to specifically identify KPIs related to
	energy efficiency and distinguish from other KPIs.
FDS	Functional Design Specification
FW	Fresh Water
HPU	Hydraulic Power Unit
HVAC	Heating, Ventilation & Air Conditioning
IAS	IAS = Integrated Automation System
KPI	Key Performance Indicator (similar EnPI)
MCC	MCC stands for motor control center.
MODU	Mobile Offshore Drilling Unit
NOX	Nitrogen oxides; The term NO _X is chemistry shorthand for molecules
	containing one nitrogen atom and one or more oxygen atoms.
	NO_X is a generic term for the nitrogen oxides that are most relevant for
	air pollution. These gases contribute to the formation of smog and acid
	rain. NO_X gases are usually produced from the reaction among nitrogen
	and oxygen during combustion of fuels, such as hydrocarbons.
PMS	Power Management System
QHSE	Quality, Health, Safety, Environment
RMR	Riserless Mud Recovery
ROV	Remotely Operated Vehicle
SG	Specific Gravity
SW	Sea Water
VDU	Visual Display Unit (for IAS)
VFD	Variable Frequency Drives
UPS	Uninterruptable Power Supply (UPS) System
USEMP	Unit Specific Energy Management Plan



The USEMPs are established in accordance with requirements in the
operator's discharge permit. The USEMPs are based on requirements in
ISO 14001 and ISO 50001.

1 INTRODUCTION

The purpose of the Unit Specific Energy Management Plan (USEMP) is to describe how energy management is implemented and adhered to on board Deepsea Atlantic (DSA).

Reference is made to L3-MODU-ALL-HSE-PR-042 MODU ENERGY MANAGEMENT SYSTEM PROCEDURE for purpose, scope and general requirements applicable for Odfjell Drilling MODUs.

The plan contains the following information:

- Description of energy generation
- An overview over all energy users/consumers on board and how these are operated in order to achieve the most energy efficient operations.
- KPIs (ENPIs) used to monitor improvement in energy efficiency on a daily basis
- Measures identified that can improve energy efficiency on-board
- Goals for energy management 2019
- Plan for implementation of identified measures
- Evaluation and improvement proposals

The USEMP shall be in accordance with Odfjell Drilling's overall policy with respect to energy management.

2 RESPONSIBILITIES & AUTHORITIES

Rig Manager	Ensure that operational and client contractual considerations are evaluated and implemented in the development of the EnMS. Develop and implement USEMP. Ensure implementation and commitment to energy management within the on- and offshore rig organization.
Technical Superintendent	Ensure implementation and performance of the unit specific Energy Management. Implementation of this USEMP. Monitor the effect of implemented measures based on measurements and analysis.
OIM	Ensure that the USEMP is implemented and assure that all relevant personnel is familiar with these requirements. Reporting the effect of implemented measures, and revising the USEMP as required.



3 DEEPSEA ATLANTIC - GVA 7500 RIG SERIES

The Odfjell Drilling GVA 7500 rig series are designed for operation as DP3 units as well as POSMOOR. This means that the units can maintain position fully by use of thrusters if the water depth allows for it or they can operate as a combination of chain mooring and use of thrusters to assist the station keeping. In order to maintain these features a high degree of redundancy is put in to the design including four separate power systems. Further the rig is equipped with a state of the art drilling package with a pure electrical redundant main hoisting and compensation system.

4 POWER GENERATION AND DISTRIBUTION

DSA electrical power plant is designed for DP operation in accordance with the DNV DYNPOS AUTRO (DP Class 3) and meet performance criteria to satisfy classification, in particular the following categories:-

- Electrical load analysis
- Short circuit analysis
- Voltage drop analysis (including motor start analysis)
- Relay coordination study
- · Harmonic analysis

The power generation plant consists of 4 quadrants each containing 2 diesel generators (each 5530 kW, 11 kV, 60 Hz), high (11 kV) and low (690/230 V) voltage switchboards with sub-distributors supplying the various consumers such as drilling equipment, thrusters, auxiliary systems, living quarters and so on.

The quadrants are normally in 2-split configuration (FWD-AFT split). For demanding conditions a 4 split configuration is used for maximum redundancy.

For critical systems there is redundancy feed from another quadrant ensuring critical equipment in each quadrant is kept alive even if total loss of power in one quadrant. One of the diesel generators in each quadrant has the function of emergency generator.

For further information reference is made to documentation in Insights: 3023DA941E102 OVERALL ONELINE DIAGRAM FOR POWER SYSTEM 3023DA941E160 SOLD SIMPLIFIED ONE LINE DIAGRAM 3023DA933E001 FUNCTIONAL DESCRIPTION POWER MANAGEMENT SYSTEM



5 ENERGY CONSUMERS

Load and effect variations may vary greatly depending on numerous parameters, e.g. location, season, well and operation specific parameters and restrictions. It is hence currently not possible to differentiate load with respect to various modes of operation.

5.1 Drilling

Object	Maker	Туре	Connected Load
Drawwork	NOV	2 x Main AHDD 1000	
		MT	12 x 858 kW
	NOV	1 x Aux AHD 500 MT	
TopDrive x 2	NOV (ABB)	2 x HPS-03-1000	2 x (2 x 858 kW)
Mud pumps (Triplex)	NOV	4 x 14-P-220	8 x 858 kW
Shaker	NOV Brandt	5 x VSM300-OM-	0 x 3 kW
		0024	
Cement pump	HALLIBURTON	2 X HT-400	2 x 857 kW
		ADVANTAGE SKID	

For further information reference is made to documentation in Insights:

- a) 3023DV941E703 FUNCTIONAL DESIGN SPECIFICATION AC Drilling Drives
- b) T7200-E-LA-018 Electrical Load List MCC & VFD

Note: Cement System is a Free Placement Agreement.

Drilling System -

Variations effect loads due to operational daily variations. High peaks du to operation issues can also occur.

ATTACHMENT 4 – DRILLING POWER LIMITING SYSTEM (DPLS) – Functionality – description of operation to archive the most energy efficient operation:

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 Prep. by:
 Contr. By:
 Appr. by:



5.2 Station-keeping

Object	Maker	Туре	Connected Load
Thrusters	Wartsila Lips	8 x FS3500-571 NU	8 x 4000 kW
Windlass	Rolls Royce	4 x BO84R5 double	4 x 480 kW
		rig anchor mooring	
		winch	

For further information reference is made to documentation in Insights:

- a) 3023DV941E430 THRUSTER VDF FUNCTIONAL DESCRIPTION
- b) 3023DA431E001 FUNCTIONAL DESCRIPTION MOORING SYSTEM

Station Keeping -

- Variations effect loads due to seasonal and daily variations.

Description of operation to archive the most energy efficient operation:

- See attachment for Power Management description.

The electrical power plant is designed for DP operation in accordance with the DNV DYNPOS AUTRO (DP Class 3) with possibility for quadruple network operation. The rig is designed to continue drilling operations during contractually defined environmental conditions.

Power plant operation as such enables multiple operation alternatives – in any configurations like fully split in four quadrants; two sections joined; three or four joined. This is dependant of the Weather Conditions vs. Position Keeping capability upon loss of thrusters after single failure.



5.3 Utility systems

System/Object	Maker	Туре	Connected Load
Cooling water -	Hamworthy Pte LTD	8 x Main	8 x 152 kW
SW cooling pumps		4 duty, 4 standby	
Cooling water -	Hamworthy Pte LTD	8 pumps	8 x 63 kW
FW cooling			
circulation pumps		4 duty, 4 standby	
Cooling water -	Hamworthy Pte LTD	2 pumps	2 x 450 kW
SW Service pumps		1 duty, 1 standby	
Fire water – Fire	Iron Pump AS /	normally all in	4 x 450 kW
Pumps and	Hamworthy Pte LTD	standby	
jockey pump			1 x 39,4 kW
HVAC AHU and fans	Eastpoint		4000 kW (est.)
Cranes –	NOV	2 x Type 3932	4 x 485 kW
Offshore Crane			
Knuckle boom			
HPU –	NOV	6 x HPU pumps	6 x 165 kW
Main ringline HPU			
Thermal oil heating -	Aalborg Thermal	2 x	2 x 2500 kW
	oil heaters		

For further information reference is made to documentation in Insights:

- a) 3023DR900E014 ELECTRICAL LOAD ANALYSIS
- b) DNV CERTIFICATE LIST MARINE & MACHINERY / STEEL OUTFITTING / HVAC / E&I (NSFI 10)

Utility System -

- Variations effect loads due to seasonal and daily variations.

Description of operation to archive the most energy efficient operation:

- See attachment for Power Management description.



5.4 3rd party Typical systems and equipment are shown in matrix below.

3. Party is Client sub-contractors and are under individual contracts.

System/Object	Maker	Procedure	Connected
			Load
Coil Tubing System	According to		TBA
	Contract with Client		
Gravel Pack	According to	1	TBA
	Contract with Client		
Riserless Mud	According to	TEMPORARY EQUIPMENT	TBA
Recovery	Contract with Client	L3-MODU-ALL-TO-PR-016	
ROV	According to	L4-MODU-DSA-E-MA-450-80	TBA
	Contract with Client	DSA PS SECE TE1 TEMPORARY	
Well Test	According to	AND THIRD PARTY EQUIPMENT	TBA
	Contract with Client	700 THE TARRETT EQUITIENT	
Wireline	According to	1	TBA
	Contract with Client		
Other?	According to		TBA
	Contract with Client		

For details regarding the individual consumers' loading reference is made to:

- a) 3023DR900E014 ELECTRICAL LOAD ANALYSIS
- b) T7200-E-LA-018 Electrical Load List MCC & VFD

Note; Cement System is a Free Placement Agreement. See under Drilling ch.4.1

3 rd Party -

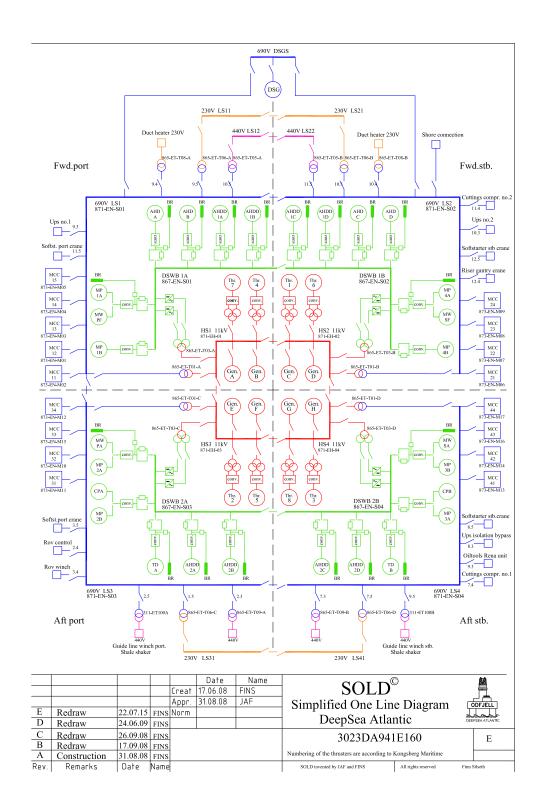
Description of operation to archive the most energy efficient operation:

- See attachment for Power Management description.
- See also each service provider strategy for operating the equipment according to Contract requirement

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 Prep. by:
 Contr. By:
 Appr. by:

G. DSA Simplified One-Line Diagram



H. Electrical Load Analysis



Electrical Load Analysis Jun.18.2010 AS BUILT S.I.Jang J.K.Choi S.J.Seo Feb.04.2010 S.I.Jang J.K.Choi S.J.Seo Revised for Construction 0 Nov.25.2008 Issued for Construction I.S.Choi J.K.Choi S.J.Seo Chk'd Rev Date **Descriptions** Prep'd Chk'd App'd Issued by Checked Prepared Distribution **Approved** Checked Offshore & **Special Ship** S.J.Seo J.K.Choi S.I.Jang Engineering

Center





ELECTRICAL LOAD ANALYSIS	DOCU NO.	3025DR900E014
ELECTRICAL LOAD ANALTSIS	REV. NO.	z
NOTES	DATE	2010.06.18

NOTES:

1. Service and abbreiation

M MarineD Drilling

T Truster or Mooring
V Ventilaion
DOL Direct On Line
FDR Feeder
SFT Soft Starter

VFD Variable Frequency Driver

2SP 2-Speed Starter

2. Load Factor (L.F.)

Normal running load (KW)
Motor design rating (KW)

Motor Name Plate (KW)

3. Diversity Factor (DF)

Factor taking into account the amount of time unit is working in a given period

4. LOAD DATA

KW = Name Plate KW

KVA = Name Plate KW/Power Factor

PF= kW/kVA (Cosine phi)

EFF.= Output Power / Input Power (Power losses of equipment)

FLA = Name Plate KW/ 1.732/Nominal Voltage (kV)/P.F./EFF.

5. Operating Load different modes

Operating KW = Load Data KW / EFF X LF X DF

6. Operating Conditions

Transit Mode

Ship mode. Seatrial or unerway to drilling location. During transit all drilling operations shall have ceased and no drilling auxiliaries shall be opeating

Drilling plus 75% DP

This case is based on a situation when weather and environmental forces require 75% thruster capacity for station keeping. During hoisting/tripping the mud pumps will be stopped.

Back-reaming plus 75% DP.

When performing back-reaming at a condition requiring 75% DP power

(i.e. extreme drilling loads in combination with dimensioning environmental condition).

Circulation of well after DP max single failure.

This condition assume maximum DP failure (loss of one engine room) and that a well shall be circulated to a balanced condition. No drilling is performed in this emergency condition where the priorit

Dead Ship Condition

Dead Ship Generator is to enable to start up the platform from condition where "all stored energy sources are empty" or in such condition that they cannot contribute to startup the platform, "dead ship".

Emergency Mode

The class requirement, for the services which are to operate in during emergency situation, is complemented with the urgency to re-start the propulsion; for this purpose, 4 main engines, one per engine room, are used as emergency generators.

7. Reference Document

DOC. Number	Description	Remark
F001-EL-CA-910-0001 (IDE)	Electrical Load Analysis (GVAC IDE)	
F001-MU-DB-914-0002 (IDE)	Desing Basis for Dead Ship Generator (GVAC IDE)	
3025DR900E004	FUNCTIONAL DESCRIPTION FOR POWER SYSTEM	
3025DR900E018	MCC PRINCIPLE LIST	
3025DR900E010	CONSUMER LIST FOR 230V/110V LTG/SMALL POWER	
3025DR900E011	CONSUMER LIST FOR 230V/110V UPS SYS.	
3025DA941E150	PANEL BOARD SCHEDULE FOR LTG & SMALL POWER	
3025DA941E151	PANEL BOARD SCHEDULE FOR LTG & SMALL POWER(L/Q)	
3025DA941E152	PANEL BOARD SCHEDULE FOR 690V AND 440V	

025	ODFJELL	
us:(0 0	3



ELECTRICAL LOAD ANALYSIS	PROJ	ODFJELL
SUMMARY	DATE	2010.06.18

SUMMARY FOR VARIOUS OPERATING MODES [KW]

RIK									
REMARIK									
EMER'CY MODE Note (2)	4 582	343	-	4 925	4	2 530	22 120	22,3%	
DEAD SHIP CONDITION	271	•	•	271	1	350	320	77,3%	
WELL CIRC. Note (1)	8 931	2 144	23 520	34 595	9	5 530	33 180	85,4% See table below	
BK REAM'G + DP 75%	9 043	5 223	23 520	98 2 2 8	8	029 9	44 240	85,4%	
DRILLING + DP 75%	8 909	6 785	23 520	39 214	8	5 530	44 240	%9'88	
DRILLING + DP 50%	8 909	6 785	15 680	31 374	7	5 530	38 710	81,0%	
MOORING + THR ASST 50%	8 402	6 785	15 680	30 867	7	5 530	38 710	%2'62	
TRANSIT + DP 75%	6 911	-	23 520	30 431	9	029 9	33 180	%2'16	
OPERATING CONDITION	LS1 +LS2 + LS3 + LS4	DRILLING VFD's	THRUSTERS	TOTAL POWER LOADING	DG IN OPERATION	KW RATING	GENERATOR POWER	LOAD FACTOR	

Note (1) Circulation of well after DP max single failure, 6 thrusters considered running at full load (100%)
(2) One cement pump with aux, utilities to be considered in operation for emergency mud circulation of well when only the rig is moored.

MAX HV SWBD LOADING IN WELL CIRCULATION MODE AFTER DP MAX SINGLE FAILURE [KW] MAXMUM LOADING OF HV SWBD WHEN OPPOSITE HV SWBD OR ONE ENGINE ROOM FAIL

ļ	Ī	Ī	Ī	Ī	Ī
REMARK					
871-EH-004	10 945	2	5 530	11 060	%0'66
871-EH-001 871-EH-002 871-EH-003	9 945	2	5 530	11 060	%6'68
871-EH-002	10 439	2	5 530	11 060	94,4%
871-EH-001	11 107	2	5 530	11 060	100,4%
KW	MAXMUM LOADING PER HV SWBD	DG IN OPERATION PER HV SWBD	KW RATING	GENERATOR POWER PER HV SWBD	LOAD FACTOR

Odfjeli GVA 7500 Semi-submersible Drilling Rig Project NO: 3025

ıfjel ojec	1 GVA 7500 Se st NO: 3025	600 Semi-submersible Drilling Rig 125								ELEC	'RIC.	ELECTRICAL LOAD ANALYSIS	4D A	NALYS	SIS									
N/N F	Equipment	DESCRIPTION		100	NNECTEL	D LOAD		L.F.	F +	TRANSIT MOORING + DP 75% + THR ASST 50%	MO + THR	MOORING DRILLING + THR ASST 50% + DP 50%	+ DP 50%	FING 20%	DRILLING + DP 75%		BK REAM'G + DP 75%	ν '	WELL CIRC'N AFTER DP MAX INGLE FAILURE		DEAD SHIP POWER	EMERGENC MODE	GENCY IDE	REMARK
			κw	VOLT	EFF	PF	AMF		DF	kW	JО	kW	DF	kW	DF	kw D	N H	w	kW DF kW DF kW DF kW	DF	kW	DF kW	kW	

Г	871-EN-S01	871-EN-S01 690V MAIN SWITCHBOARD (LS1)						0	2069,3	0	2462,8	0	2566,4	0	2587,3	0	2609,0	0	2436,2	0	270,5	0 11.	1183,3
Ė	867-EN-S01	867-EN-S01 DRILLING VFD SWITCHBOARD (DSWB1A)									2105,1	0	2333,1	0	1815,2	0	1236,7	0	830,3	0	0'0	0	0'6
Ė	635-EM-001-H	635-EM-001-H THRUSTER MOTOR	4 000	0,985	85 0,95	5	86'0	75	2940,0	50	1960,0	50	1960,0	75	2940,0	75	2940,0	100	3920,0		0		0
	635-EM-001-B	635-EM-001-B THRUSTER MOTOR	4 000	0,985	85 0,95	2	96'0	75	2940,0	20	1960,0	50	1960,0	75	2940,0	75	2940,0	100	3920,0		0	H	0
		Total consumption of																					
		871-EH-001 (HS1)							7949		8488		8820		10283		9726		11107		271	-	183

9	871-EN-S02 690V MAIN SWITCHBOARD (LS2)					0	1685,6	0	2105,1	0	2333,1	, 0	2327,6	0	2417,8	0	2599,1	0	0'0	0 911	1
-	867-EN-S02 DRILLING VFD SWITCHBOARD (DSWB1B)								0'0		1815,2	0	1815,2	0	1236,7	0	0'0	0	0'0	0 0	0'
	635-EM-001-C THRUSTER MOTOR	4 000	0,985	0,95	0,98	7.5	2940,0	20	1960,0	50	1960,0		2940,0	75	2940,0	100	3920,0		0		0
	4 635-EM-001-E THRUSTER MOTOR	4 000	0,985	0,95	96'0	75	2940,0	20	1960,0	20	1960,0 75		2940,0	75	2940,0	100	3920,0	Ц	0		0
	Total consumption of							-											_		
	871-EH-002 (HS2)						7566		6025		8008		10023		9535		10439		0	911	1

1 87-EN-SG3 600 MAIN SWITCHBOARD (LS3) 1 482.0 0 1784.9 0 1613.1 0 1689.8 0 1737.2 0 1637.2 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>																							
CHEOLARD (DSWB2M) 4 000 0.885 0.98 75 2244.0 50 1960.0 50 1877.2 1877.2 0 1877.2 1	-	871-EN-S03	690V MAIN SWITCHBOARD (LS3)					0	1482,0	0	1784,9	0	1813,1	0	1838,8	0	1849,6	0	1759,1	0	0'0	0 1290,5	5'
4 000 0 0.086 0.95 0.98 75 2940.0 50 1980.0 50 1980.0 75 2940.0 100 0 3 1980.0 75 2940.0 100 0 3 1980.0 100 0 3	2	867-EN-S03	DRILLING VFD SWITCHBOARD (DSWB2A)								0'0		1577,2	0	1577,2	0	1374,8	0	345,4	0	0'0	0	0''
4 0.006 0.96 0.96 7.5 2940,0 50 1960,0 50 1960,0 7.5 2940,0 100 30 200 7.5 2940,0 100 30 M 7.5 <t< td=""><td>3</td><td>635-EM-001-F</td><td>THRUSTER MOTOR</td><td>4 000</td><td>0,985</td><td>0,95</td><td>0,98</td><td></td><td>2940,0</td><td>20</td><td>1960,0</td><td>20</td><td></td><td>75</td><td></td><td>75</td><td>2940,0</td><td>100</td><td>3920,0</td><td></td><td>0</td><td></td><td>0</td></t<>	3	635-EM-001-F	THRUSTER MOTOR	4 000	0,985	0,95	0,98		2940,0	20	1960,0	20		75		75	2940,0	100	3920,0		0		0
7362 5705 7340 9296 9104	4	635-EM-001-D	THRUSTER MOTOR	4 000	0,985	0,95	0,98		2940,0	20	1960,0	50		7.5		75		100	3920,0		0		0
7362 5705 7310 9296 9104			Total consumption of																				
			871-EH-003 (HS3)						7362		5705		7310		9536		9104		9945		0	1291	-

٢	871-EN-S04	871-EN-S04 690V MAIN SWITCHBOARD (LS4)					0	1674,4	0	2049,3	0	2123,5	0	2155,8	0	2166,6	0	2136,7	0	0'0	0 1197,	3
2	867-EN-S04	867-EN-S04 DRILLING VFD SWITCHBOARD (DSWB2B)						5817,0		0'0		1577,2	0	1577,2	0	1374,8	0	968,5	0	0'0	0 0,	0
3	635-EM-001-G	635-EM-001-G THRUSTER MOTOR	4 000	0,985	5 0,95	0,98	75		2940,0 50	1960,0 50	20	1960,0	72	2940,0	75	2940,0 100	100	3920,0	H	0		0
4	635-EM-001-A	635-EM-001-A THRUSTER MOTOR	4 000	0,985	5 0,95	86'0	75	2940,0	50	1960,0	50	1960,0	75	2940,0	75	2940,0 100	100	3920,0	H	0		0
		Total consumption of																				
		871-EH-004 (HS4)						13371		5969		7621		9613		9421		10945		0	1197	

Sheet 5 of 17

ELECTRICAL LOAD ANALYSIS

Odfjell GVA 7500 Semi-submersible Drilling Rig Project NO: 3025

S/N	Equipment	DESCRIPTION	SER-SI	STAR		CONNE	CONNECTED LOAD	_	L.F.		TRANSIT + DP 75%		MOORING + DRILLING THR ASST 50% + DP 50%	+ DP 50%	. 50%	PRIL + DP	DRILLING + DP 75%	BK REAM'C + DP 75%		AFTER DP MAX SINGLE FAILURE	P MAX	DEAD SHIP POWER		EMERGENCY MODE	REMARK
_				TYPE	kW VC	VOLT	EFF PF	F AMP	<u>a</u>	DF	kW	DF	kW	DF	kW	DF	kW	DF	kW	DF		DF kW		DF kW	
32	325-EM101AA	HP MUD PUMP NO. 1, MOTOR A	D VF	VFD 85	58,0	069	0,93 0,83	1120	06'0 0	0 0	0	0,0 45	373,6	45	373,6	45	373,6	25	207,6	90	415,2	0	0	0	
32	325-EM101AB	HP MUD PUMP NO. 1, MOTOR B	D	VFD 85	858,0	069	0,93 0,83	1120	06'0 0'	0 0	0'0	,0 45	373,6	45	373,6	45	373,6	52	207,6	20	415,2	0	0	0	
31	312-EM001A	AHD 500 DRAWWORKS MOTOR #A	D VF	VFD 85	58,0	069	0,94 0,83	1120	06'0 0	0 0	0'0	,0 25	205,4	25	205,4	25	205,4	0	0'0	0	0'0	0	0	0	
31	312-EM001B	AHD 500 DRAWWORKS MOTOR #B	D VF	VFD 85	58,0	069	0,94 0,83	33 1120	06'0 0	0 0	0'0	,0 25	205,4	25	205,4	25	205,4	0	0'0	0	0'0	0	0	0	
31	312-EM201A	AHDD DRAWWORKS A MOTOR #A	D VF	FD 8t	58,0	069	0,94 0,83	33 1120	06'0 0'	0 0	0'0	,0 40	328,6	40	328,6	40	328,6	90	410,7	0	0'0	0	0	0	
31	312-EM201B	AHDD DRAWWORKS A MOTOR #B	D VF	VFD 85	858,0	069	0,94 0,83	1120	06'0 0'	0 0	0'0	,0 40	328,6	40	328,6	40	328,6	90	410,7	0	0'0	0	0	0	
L			L			L			L	Ĺ		Ĺ		ŀ		ŀ		L	l	L	l	L	ŀ		

325-EM101AA	HP MUD PUMP NO. 1, MOTOR A	D VF	VFD 8	858,0	690	0,93 0,83	3 1120	06'0 02	0	0'0	45	373,6	45	373,6	45	373,6	25	207,6 50		415,2	0	0	0	0
325-EM101AB	HP MUD PUMP NO.1, MOTOR B	D VF	VFD 8	858,0		0,93 0,83	3 1120	20 0,90	0	0,0	45	373,6	45	373,6	45	373,6	25	207,6 50		415,2	0	0	0	0
312-EM001A	AHD 500 DRAWWORKS MOTOR #A	D VF	NFD 8	858,0	690 069	0,94 0,83	3 1120	20 0,90	0	0'0	25	205,4	25	205,4	25	205,4	0	0'0	0	0'0	0	0	0	0
312-EM001B	AHD 500 DRAWWORKS MOTOR #B	D VF	VFD 8	858,0	690	0,94 0,83	3 1120	20 0,90	0	0'0	25	205,4	25	205,4	25	205,4	0	0'0	0	0'0	0	0	0	0
312-EM201A	AHDD DRAWWORKS A MOTOR #A	D VF	VFD 8	858,0	690 0,9	0,94 0,83	3 1120	20 0,90	0	0'0	40	328,6	40	328,6	40	328,6	50	410,7	0	0,0	0	0	0	0
312-EM201B	AHDD DRAWWORKS A MOTOR #B	D VE	VFD 8	858,0	690	0,94 0,83	3 1120	06'0 07	0	0'0	40	328,6	40	328,6	40	328,6	90	410,7	0	0'0	0	0	0	0
431-0A-001-A	MOORING WINDLASS ELECTRIC MOTOR A	D VF	VFD 4	480,0	690 069	0,98 0,80	0 650	06'0 0	0	0'0	0	0'0	0	0'0	0	0'0	0	0'0	0	0'0	0	0	0	0
	Total consumption of supplied from																							
	867-EN-S01 (DSWB1A)		Ļ	+		_	+		\downarrow	0	+	1815	+	1815	-	2		1237	~	830		o		0
312-EM201C	AHDD DRAWWORKS A MOTOR #C	D		858,0	690	0,94 0,83	3 1120	20 0,90	0	0'0	40	328,6	40	328,6	40	328,6	50	410,7	0	0'0	0	0	0	0
312-EM201D	AHDD DRAWWORKS A MOTOR #D	D VF	VFD 8	858,0	069	0,94 0,83	3 1120	20 0,90	0	0'0	40	328,6	40	328,6	40	328,6	90	410,7	0	0,0	0	0	0	0
312-EM001C	AHD 500 DRAWWORKS MOTOR #C	D VF	VFD 8	858,0	690	0,94 0,83	3 1120	20 0,90	0	0'0	25	205,4	25	205,4	25	205,4	0	0,0	0	0,0	0	0	0	0
312-EM001D	AHD 500 DRAWWORKS MOTOR #D	D VF	NFD 8	858,0	690 069	0,94 0,83	3 1120	20 0,90	0	0'0	25	205,4	25	205,4	25	205,4	0	0'0	0	0'0	0	0	0	0
325-EM101DA	HP MUD PUMP NO. 4, MOTOR A	D VE	NFD 8	958,0	5'0 069	0,93 0,83	3 1120	06'0 07	0	0'0	45	373,6	45	373,6	45	373,6	25	207,6	0	0'0	0	0	0	0
325-EM101DB	HP MUD PUMP NO. 4, MOTOR B	D VE	NFD 8	858,0	5'0 069	0,93 0,83	3 1120	06'0 07	0	0'0	45	373,6	45	373,6	45	373,6	25	207,6	0	0'0	0	0	0	0
431-0A-001-B	MOORING WINDLASS ELECTRIC MOTOR B	D VF	VFD 4	480,0	3'0 069	08'0 86'0	0 650	06'0 0	0	0'0	0	0'0	0	0'0	0	0'0	0	0'0	0	0'0	0	0	0	0
	Total consumption of supplied from										-													
	867-EN-S02 (DSWB1B)						7	7 370		0		1815		1815		1815		1237		0		0		0
325-EM101BA	HP MUD PUMP NO. 2, MOTOR A	D VF	VFD 8	858,0	690	0,93 0,83	3 1120	20 0,90	0	0'0	45	373,6	45	373,6	45	373,6	25	207,6	0	0,0	0	0	0	0
325-EM101BB	HP MUD PUMP NO. 2, MOTOR B	D VF	VFD 8	858,0	690	0,93 0,83	3 1120	20 0,90	0	0'0	45	373,6	45	373,6	45	373,6	25	207,6	0	0,0	0	0	0	0
313-EM101	DRILLING MOTOR A (TOP DRIVE A)	D VF	VFD 7	740,0	3'0 069	0,96 0,81	1 815	5 0,90	0	0'0	25	172,7	25	172,7	25	172,7	20	138,2 50		345,4	0	0	0	0
312-EM251A	AHDD DRAWWORKS B MOTOR #A	D VF	VFD 8	858,0	690 0,5	0,94 0,83	3 1120	20 0,90	0	0,0	40	328,6	40	328,6	40	328,6	50	410,7	0	0,0	0	0	0	0
312-EM251B	AHDD DRAWWORKS B MOTOR #B	D VF	VFD 8	858,0	690	0,94 0,83	3 1120	20 0,90	0	0'0	40	328,6	40	328,6	40	328,6	50	410,7	0	0,0	0	0	0	0
371-EM-001A	CEMENT PUMP A	D VF	VFD 8	857,0	690	0,98 0,80	1150	50 0,90	0	0'0	0	0'0	0	0'0	0	0,0	0	0,0	0	0,0	0	0	40	343
431-0A-001-C	MOORING WINDLASS ELECTRIC MOTOR C	D VF	VFD 4	480,0	690 0,9	0,98 0,80	0 650	0,90	0	0'0	0	0'0	0	0'0	0	0,0	0	0,0	0	0,0	0	0	0	0
	Total consumption of supplied from																							
	867-EN-S03 (DSWB2A)						7	7 095		0		1577		1577		1577		1375	.,	345		0		343
325-EM101CA	HP MUD PUMP NO. 3, MOTORA	D VF	VFD 8	858,0	690	0,93 0,83	3 1120	20 0,90	0	0'0	45	373,6	45	373,6	45	373,6	25	207,6 50		415,2	0	0	0	0
325-EM101CB	HP MUD PUMP NO. 3, MOTOR B	D VF	VFD 8	858,0	690	0,93 0,83	3 1120	20 0,90	0	0'0	45	373,6	45	373,6	45	373,6	25	207,6 50		415,2	0	0	0	0
313-EM102	DRILLING MOTOR B (TOP DRIVE B)	D VF	VFD 7	740,0	690 0,9	0,96 0,81	1 815	5 0,90	0	0'0	25	172,7	25	172,7	25	172,7	20	138,2 20		138,2	0	0	0	0
312-EM251C	AHDD DRAWWORKS B MOTOR #C	D VF	VFD 8	858,0	690	0,94 0,83	3 1120	20 0,90	0	0'0	40	328,6	40	328,6	40	328,6	50	410,7	0	0,0	0	0	0	0
312-EM251D	AHDD DRAWWORKS B MOTOR #D	D VF	VFD 8	858,0	690	0,94 0,83	3 1120	20 0,90	0	0'0	40	328,6	40	328,6	40	328,6	50	410,7	0	0,0	0	0	0	0
371-EM-001B	CEMENT PUMP B	D VF	VFD 8	857,0	690	0,98 0,80	1150	50 0,90	0	0'0	0	0'0	0	0'0	0	0.0	0	0,0	0	0,0	0	0	0	0
431-0A-001-D	MOORING WINDLASS ELECTRIC MOTOR D	D VF	VFD 4	480,0	3'0 069	0,98 0,80	0 650	0,90	0	0'0	0	0'0	0	0'0	0	0.0	0	0,0	0	0,0	0	0	0	0
	Total consumption of supplied from																							,
	867-EN-SU4 (DSWBZB)			$\frac{1}{1}$	+	+	1	7 095	1	9	+	12//	+	15//	4	15//	1	13/5	1	998	1	0	1	0
	Total consumption of DRILLING SWITCHBOARDS						88	28 930		0		6 785		6 7 8 5		6 785		5 2 2 3	2 144	4				343

ELECTRICAL LOAD ANALYSIS

Experiment number	62 (2000 MCC21) (1000 MCC22) (1000 MCC22) (1000 MCC22) (1000 MCC22)	SER. STAR	% × ₩	CON	CONNECTED LOAD	LOAD		5			ž	TRANSIT + DP 75%	MOOF	MOORING +	+THR	DRILLING				RK	BK REAN'G	WELL CIRC'N AFTER DP	CN AFTER I		DEAD SHIP POWER		EMERGENCY MODE		3
DISCHARGE TO SCHARGE							div.			۰	30					+ Db	%0.	DRILLING + DP 75%	JNG 75%	+ D	P 75%	Ben on	GLE FAILUR	_					Max Load (A)
171 EANOT 171 EA		 		VOLT	EFF	PF	AMP	kW	v AMP	κΛΑ	à	KVA kW	v DF	KVA	kW DF	KVA	kw	DF KVA	kw	DF KVA	A kW	DF K	KVA KW	DF	KVA KW	V DF	KVA	kW	
PERMIT PE			1126			l	1161	-	-	-	ļ	489.1	440.9	489.1	440.9	481.9	440.9	494.8	452.9	602.0	12.0 452.1	6	565.7 510	9.0	160.3	139.7	297.8	263.5	473
672 EKANO 672 EKANO 673 EKANO 673 EKANO 674 EKANO 675 EKANO			1452			Ħ	1594	H	Н	H	Ħ	L	407.9	615.2	512,7 0	0 596.8	502.6	612.0	516.2	612,0		L	80	543.6		105.8	141,1	123,0	519
172 ENMAG 173 ENMAG 174 EL-300 175 EL-300 175 EL-300 175 EL-300 175 EL-300 175 EL-300 175 EL-300 175 EL-300 175 ENMAG 175 ENMA			1120				1167	L	L			0'0	0'0	337,7	288,8 0	1 298,1	290,6	339,8	3 290,6	364,7			148.2 12	126.1	0'0	0'0	0'0	0'0	305
872 ENANO 971 EL-SOT 971 EL-SOT 900 ER-SOT A 901 ER-SOT A 972 ENANO 972 ENANO 972 ENANO 973 ENANO 973 ENANO 973 ENANO 974 ENANO 974 ENANO 974 ENANO 974 ENANO 975 ENAN			250				191	L	L			386,8	327.4	386,8	327,4 0	0 465,0	398,9	465,0	398,9	46	465,0 398,	6	386,8 327	9.79	0'0	0'0	281,4	225,0	389
871 EL-S01 975 EL-H1 975 EL-H1 986 ER-001.A 981 ER-001 973 ER-ND0 973 ER-ND0 973 ER-ND0 973 ER-ND0 973 ER-ND0 973 ER-ND0 973 ER-ND0 971 ER-SD0		HH	516				471					442,4	423,9	442,4	423,9 0	0 448.1	428,5	442,4	423,9	4	442,4 423,1		141,6 12	123,1	0'0	0'0	9'0	0,4	375
871 EL-806 806 ER-001 A 806 ER-001 A 801 ER-001 801 ER-001 803 ER-MADO 803 ER-MADO 804 ER-MADO 805 ER		H				l		L			L	248.7	223.9	248.7	223,9 0	0 248.7	223.9	248.7	223.9	248,7	18.7 223.7	6	248.7 457.	6'2	27.8	25,1	0'0	223,9	383
895 EE-M11 895 EE-001-A 891 E-NOT1 873 E-NAMO 873 E-NAMO 873 E-NAMO 873 E-NAMO 873 E-NAMO 873 E-NAMO 873 E-NAMO 871 EI-SOZ 871 EI-SOZ 871 EI-SOZ		igert										98'4	82,3	98,4	82,3	0 98.4	82,3	98,4	82,3	6	98,4 82;	23	_	82,3	0.0	0'0	0'0	82,3	82
80 ER-01-A 301 ER-01 301 ER-01 673 ER-MAD 673 ER-MAD 673 ER-MAD 673 ER-MAD 673 ER-MAD 674 ER-MAD 674 ER-NAD 674 ER-NAD						f	f	ŀ	ŀ	L	F	L	61.0	2.79	61.0	7.79 0	61.0	2'29	61.0	9	L	0	L	61.0	0.0	00	00	61.0	25
861 ENZO1 673 ENAMO 873 ENAMO 873 ENAMO 873 ENAMO 873 ENAMO 873 ENAMO 873 ENAMO			194	069	8	0.85	201	.00 204,2	2 201,0	240,2	2	120	102.1 50	120	102,1 50	0 120	102.1	50 120	102.1	99	120 102.	100	240 204	4,2 0	0	0 100	240	204	201
873.ENAND6 873.ENAN7 873.ENAN8 873.ENAN8 871.EL-S02	\$ 1) CONTROL CENTER - 10004 (MCCZ1) CONTROL CENTER - 10004 (MCCZ2) CONTROL CENTER - 10004 (MCCZ2) CONTROL CENTER - 12004 (MCCZ2) INTERO-MODILE 21)	D FDR			88	0,80		_	۰	_	0		0 0'0	0	0,0	0 45				9		١.	0	0 0'0	0	0	0	0	37
873-ENMO6 873-ENMO7 873-ENMO8 873-ENMO9 871-EL-SO2	win of CONTING, CENTER, 100A, MCC21) CONTING, CENTER, 100A, MCC22) CONTING, CENTER, 100A, MCC22) CONTING, CENTER, 100A, MCC22) CONTING, CENTER, 100A, MCC23)																												
873-EN-MO6 873-EN-MO7 873-EN-MO8 873-EN-MO8 871-EL-S02	OXMTROL CENTER - 160A, MOCZ1) CONTROL CENTER - 160A, MCCZ2) CONTROL CENTER - 160A, MCCZ3) CONTROL CENTER - 126A, MCCZ4) MTCHEOARD (LS 21)											2304	2069	2806	2463	2870	2566	2934	2587	29	2966 2609		2518 2-	2436	309	277	967	1183	
873-EN-MO6 873-EN-MO3 873-EN-MO8 873-EN-MO9 871-EL-SO2	CONTROL CENTER - 1600A MOC21) CONTROL CENTER - 1600A MOC22) CONTROL CENTER - 1600A MOC23) CONTROL CENTER - 1200A MOC22) WITCHBOARD (LB 21)											1							l	1	l					1			
873-EN-M07 873-EN-M08 873-EN-M09 871-EL-S02	CONTROL CENTER - 1600A (MCCZ) CONTROL CENTER - 1600A (MCCZ) CONTROL CENTER - 1250A (MCCZI) VITCHBOARD (LS 21)	L	1445				1440					555,2 5	510,0	555,2	510,0	670.4	0'809	683,3	619,9	0 68	683,3 619,	6	696,5 63	634,6	0.0	0'0	193,9	173,8	583
873-EN-M08 873-EN-M09 871-EL-S02	CONTROL CENTER - 1600A (MCC23) CONTROL CENTER - 1250A (MCC24) VITCHBOARD (LS 21)		1303				1452	Ц				333,4 3	302.8	494,1	403,8 0	451,5	393.7	466.7	407,3	0 49	491,0 407.	3	502.1 43	435,5	0.0	0'0	120,5	103,5	420
873-EN-M09 871-EL-S02	CONTROL CENTER - 1250A (MCC24) VITCHBOARD (LS 21)		1368				1414	Ц				0'0	0.0	371.2	318,5	373,4	320.3	373.4	320.3	0 39	398,3 342,	0	304,4 25	258.8	0.0	0'0	2,1	1,8	333
871-EL-S02	VITCHBOARD (LS 21)		837				835	L	L			428,1 3	363,1	428.1	363,1 0	0 506,3	434,6	506,3	434,6	0 50	506,3 434,	9	428,1 36	363,1	0'0	0'0	280,6	224.4	424
								L	L			280,1	234.1	260,1	234,1 0	260,1	234.1	290,1	234,1	0 28	260,1 234,	_ F	260,1 457	6'2'	0'0	0'0	0'0	234,1	383
6 871-EL-S06 440V MAIN SWIT	44 0V MAIN SWITCHBOARD (LS 22)											135,4	111,1	135,4	111,1	135,4	1111,1	135,4	1111,1	0 13	135,4 111,		135,4 11	111.1	0'0	0'0	0'0	111.1	113
7 875-EL-H12 DUCT HEATER PANEL	R PANEL											69,4	62,4	69.4	62.4 0	0 69,4	62.4	69,4	62.4	0 11	1,0	6;	69.4	62.4	0.0	0'0	0'0	62.4	93
8 886-ER-001-B MAIN UPS-2 SYSTEM	YSTEM	Н	194	690	36	0.85	201	1.00 204,2	2 201,0	240,2	50	120	102,1 50	120	102.1 50	120	102.1	50 120	102.1	50	120 102.	100	240 20	204.2	0	0 0	0	0	201
	OOM CRANE 1	D FDR	1			0.80	T		4	4	0	0	0.0	٥	0,0	0 45	35.7	10 45	35.7	10	45 35.7	.7	88	71.5 0	0	0	0	0	75
10 362-EN201 RISER GANTRY CRANE		D FDR	185	690	0.95	0.87	187 0	0.80 155,8	8 149,8	179,1	0	0	0 00	0	0,0	36	31.2	0 20	0.0	20	36 31,	2 0	0	0.0	0	0	0	0	30
Total consumption of 871-EN-S02 (LS 2)	ption of S2)											1902	1686	2434	2105	2667	2333	2679	2328	22	2786 2418		2726 23	2599	0	0	265	116	
1 873.EN-M11 690V MOTOR CC	690V MOTOR CONTROL CENTER - 1600A (MCC31)	ŀ	1281			l	1308	L	L	L	L	403,0	364,0	403,0	364,0	0 403,0	364,0	416,0	376,0	41	416,0 376,	0	441,5 399.	9,5	0.0	0'0	761,1	8'999	637
2 873-EN-M10 69.0V MOTOR CC	690V MOTOR CONTROL CENTER - 1600A (MCC32)		1609				1673					434,6	391,6	502,5	443,8 0	0 484.1	433,7	499,5	5 447,3	49	499,5 447,	3	536,4 48	484.2	0'0	0'0	139,9	123,6	449
	69 0V MOTOR CONTROL CENTER - 160 0A (MCC33)	L	1065				1097			L	H		21,6	299.4	253,0 0	302,5	255,5	302.5	255,5	31	Ц	4	205,8 17	170,6	0.0	0'0	49,7	43,0	264
4 873-EN-M12 690V MOTOR CC	690V MOTOR CONTROL CENTER - 1250A (MCC34)	H	880			H	910	L	L	Ц	Ш	557.8 4	471.4	557.8	471,4 0	0 557,8	471.4	8,758	471.4	99	557,8 471,	- Y	557.8 47	471,4	0.0	0'0	279,1	223,6	467
5 871-EL-S03 230V MAIN SWIT	230V MAIN SWITCHBOARD (LS 31)	\Box										214,7	193,2	214,7	193,2 0	214,7	193,2	214.7	193.2	21	214,7 193.	2	214,7 19	193,2	0.0	00	0'0	193,2	180
875-EN-P03	ш		4			1	_		-	+	1	44,7	40,3	44.7	40,3 0	0 44,7	40,3	44.7	_	4		2	44.7	40,3	0,0	00	0'0	40,3	37
7 361-EN202 SOFT STARTIKN	2	D FOR	+		8	0,80	т		+	+	0	0	0 00	0	0.0	46	35.7	10 45	35.7	0	46 35.	0 .	0	000	0	0	0	0	37
721-P-A-006	SOFT START FOR ROOSTERPIMP	M FDR	256	690	8 8	0.90	251	0.70 186.7	7 1755	209.8	0	00	0 0	0.0	000	200	0.0	0 0		,	0.0	3 0		0 0	0.0	0	3 6	000	0
				1	1		1	_	-	1	İ		Ė	L						L		L							
871-EM-S03 (LS 3)	.53)											1682	1482	2045	1785	2074	1813	2103	1839	21	2115 1850		2001	1759	0	0	1230	1291	
1 873-FN-M13 Resin/ MOTOR C	MOTOR CONTROL CENTER - 1900a MCC41)	L	1457	L		F	1450	L	L	L	F	4757	73.7	475.7	437.4	475.7	477.4	488.7	440.4	48	488.7		614.3 473	20	0.0	0.0	653.7	673.8	5.47
	690V MOTOR CONTROL CENTER - 1600A (MCC42)	L	14.49			f	1507	L	ŀ	L	t		367.2	431.8	383.1	0 413.5	373.0	428.8	386.7	42		Ĺ		460.7	0.0	00	122.7	107.5	427
	390V MOTOR CONTROL CENTER - 1600A (MCC43)		1271			f	1321	ŀ	L	L	F	L	21.6	423.6	354.7	0 488.5	409.8	488.5	409.8	8		_	9	329.3	0.0	00	400	32.0	419
	890V MOTOR CONTROL CENTER - 1250A (MCC44)		1019			f	1075	ŀ	ŀ	L	F	707.4 5	594.4	707.4	594.4	0 707.4	594.4	707.4	594.4	2		4	L	594.4	0.0	00	279.1	223.6	582
	230V MAIN SWITCHBOARD (LS 41)												221.7	253.6	228,3 0	0 246.4	221.7	253,6	3 228.3	25	L		60	228.3	0.0	00	0'0	228,3	212
	440V POWER PANEL FOR FAN COIL UNIT											40,1	32.1	40.1	32,1	1,04	32.1	40,1	32,1	4	40,1 32,	-	40.1	32.1	0'0	0'0	0'0	32.1	8
7 361-EN102 SOFT START KN	SOFT START KNUCLE BOOM CRANE 1	D FDR	485	9 690	98	0.80	534 0	0,70 357,4	373,8	8 446.7	0	0	0.0	0	0,0	3 45	35.7	10 45	35.7	10	45 35.	0 2	0	0.0	0	0 0	0	0	37
	BYPASS TRANSFORMER FOR MAIN UPS 1 & 2	M FDR	100	0690		1,00	7	0.90 94.7	-	-	0	000	0.0	0.0	0,0	0	0.0	0	0.0	0	0,0	0,0	19	18,9 0	0,0	000	00	0,0	17
9 311-ET100B XFMR FOR GUID	XFMR FOR GUIDE LINE WINCH NO.2	_	420	690	88	0,85	422 0	0.90 385,7	7 379,7	7 453,8	0	00	0,0	22.7	19,3 5	5 23	19,3	5 25	19.3	9	23 19.	3	0	0,0	0,0	000	00	0,0	19
Total consumption of	otion of																								_				
871-EN-S04 (LS 4)	.54)										1	1904	1674	2355	2049	2439	2123	2475	2156		2487 2167	1	2439 2	2137	0	0	1095	1197	1

ELECTRICAL LOAD ANALYSIS Odfiell G F Project NO: 3025

Project NO: 3025							ŀ	-		HIVAL I SIS			-	***************************************					
S/N Equipment number	DESCRIPTION	MOC ROOM	SER. STARTER VICE TYPE		CONNECTED LOAD		5		+ 09 75%	ASST 50%	* DP 80 %	5 -	P75%	HONGE HIN MUCHAN HIN DRILLING BY ADPTS ADPTS ADPTS ADPTS ADPTS ASSTSTANCE FALLURE CEAD SHP POWER EMERGENCY MODE	KSNGLE FALURE	DEAD SHIP POWE	R EMENGENCY M	REMARK	Low Speed Dates
		ON			MV VOLT EFF PF AMP	w ww	WW	AMP KVA DF	N/A N/A	DF KWA kW	DF KVA	W De	a ww or	KVA KW DF	KVA. WV	DF KVA N	V Dr NAA	KW	fune
52	25			ll															
1 501-E-001-A LIFES	TERRODAL ON A CONTROL PARE.	MOC11 NA	M NOR	345	000 0'00 0	0.005 37.7 0.5	0.80 30.7	30.2 30.1	0 0 00	0 0	0 0 0	0 00	0 00 0	0 00 0	000	0 0	0 0	0	
ĺ	PANSFORMER (99 1-ET-002-A) FOR LET IN ACCOMPGN	MOC11 N/A	M FOR	Ш	0.98 0.	85 17,0 OJ	0 13.8	13,6 16,2 1	2 1.4	10 2 1	1,4 10 2	1,4 10	2 1,4 10	2 1.4 10	2 1,4	0 0	0 0 0	0	
4 566-PX-001 CON	TROUD PAVEL (566 EC.00.1) FOR HELIFLEL PUMP UNIT	MOC11 NA	M RDR	6.8	000 0.86 0	09 9,5 0,	0 6.3	7.6 9.1	0 0 00	0 0	0 0 00	000	0 00 0	0 00 0	00 00	0 0	0 0	0 0	
6 S81-PC-001-A CALO	WEER STATES CONCENTRATED	MOC11 FEM129	M RDR	0 0001	30 0.85 0.	34 1363 03	0 108.5	1080 130.3 2	33 27,4	25 33 27	8 8	27,4 25	33 27.4 25	33 27.4 25	33 27.4	0 0	0 0	0	
П	WATER CIRCULATION PUMP	MOC11 FEM129	M DOL	2.55 6	90 0.80 0.	0 17 0	.0 2.4	25 3.0 5	1 1.2	50 1	12 50 1	1,2 50	1 12 50	1 1,2 100	3 2.4	0	0	0	
582-VV-001	CONTROL PAVEL (5/22/18-0) I) FOR SEWAGE TREATMENT PLANT	MOC11 FANSOP	M FOR	14.8	00 0.95	21,8 1,	15.6	21.8 28.0	3 1.6	10 3	1.8 10 3	1,6 10	3 1.6 10	3 1,6 10	3 1,6	0	0	0	
Г	ENGINES TURNING GEAR UNT	MOC11 FPM110	M ROR	25 6	90 0,63 0,	97 5.0 0,1	0 32	40 4,7 2	1 0.8	26 1 0	18 28 1	0.8	0 00 0	0 000	000	0 0	0.0	0.0	
	ENGINEA PRE-LUBRICATION OL PUMP	MOC11 FPM110	M FOR	22.0 6	90 0.94 0.	82 24.0 1,	0 23.4	24.0 28.7 2	5 7 5.9	26 7 6	7 25 25	6.9 25	7 5.9 25	7 6,9 25	7 6.9	100 29	23,4 0 0	0	
13 801-EC-002-B MAIN	ENSINES PRE-LUBRICATION OL PUMP	MOC11 FEMILIO	M FOR	22.0	90 0.94 Q	82 24.0 1,	10 23.4	24.0 28.7 2	5 7 5.9	25 7 1	5.9 25 0	5.9 25	0 5,9 25	7 5.9 25	0 0.0	0	0 0 0 0	0	
- 1	THRUSTER H LUBRICATION UNIT	MOC11 A/S/30S	T 70R	223	000 0'00	91 5,4 0,	47	43 5,2 11	5 4.7	100	4,7 100 5	4.7 100	5 4,7 100	5 47 100	5 4.7	0 0	0 0	0 4	
S KN-COLON	SSERVING MALIC DOWNER PLOCK 2	MOCH ANNUAL	T 808	0.00	0 0 0 0	0 10	818	717 88 10	88 010	100	18 100 88	818 100	88 818 100	818 100	88 818	0 0	0 0		
17 702-OF-001-A FUEL.	OL SEPERATOR	MOC11 FPM131	M FOR	175.0	90 0.95 0.	94 164.0 03	0 147.4	131,2 158,8 5	1 78 73.7	50 78 73	17 50 78	73.7 50	78 73,7 50	78 73.7 50	7.87 73.7	0	0 0 0	0	
	F.O. CROLLATION PUMPA	MOC11 FPM131	M DOL	9.6	90 0,90 0,	91 8,8 0,	2.7 0.	7,1 8,4 6	3.8	50 4 5	3.8 50 4	3.8 50	4 3,8 50	4 3.8 50	4 3.8	100	7,7 100 9	0	
19 711-PG-001-A DRTY	YLUBE OL TRANSFER PUMP	MOC11 FPM110	M DOL	2.5 6	90 0.84 0	96 2.9 0.	2.4	2,3 2,8	0 00	0 0	0 0 00	0 00	0 00 0	0 000	0.0	0	0 0 0	0	
	I MAN SEA COOL NO WATER PUMP	MOCH FAND	M SET	1520	080	90 1542 0.	1357	123.4 147.4	74 663	20 74 6	2 20 20	06.3	74 063 50	74 663 100	147 132.7	0 0	0.0 100 169	201	
21 722-04-005-0 FRES	WUSHINGSON WATER COOLING PARK	MOCH FEMANO	- N	690	900	20 6383 05	643	611 610 3	2 28 23 23	24 56 59	20 00 00	20 60	31 272 60	31 272 60	0.00	0 0	0 0		
5	#EHEATING UNIT	MOC11 FPM110	M FDR	3.00	90 a.70 a.	45 17	0 43	45 5,4 2	1 11	26 1	13 28 1	8 11	1 1,1 26	1.1 23	17 1	100	4,3 0	0	
24 722-F-002-A HT-PR	HT-PREHEATING UNIT	MOC11 FPM110	M FOR	108.8	90 0.95 0.	90 106.4 1,	114.6	106.4 127.2 2	5 32 28.6	25 32 26	3.6 25 32	28.6 25	32 28.6 25	32 28.6 25	32 28.6	80 102	0 0 0	0	
	JAST PUMP, SUBMERSIBLE A	MOC11 F/8/8P	M DOL	94.0	90 0.94 0.	87 85.9 0,	0 71.5	68.8 82.2	9 0 0'0	0 0	0 0 00	0 00	0 00 0	0 000	0 00	0 0	0,0 100 97	94	
803-PG-101-A SLL	DGE PUMP	MOC11 FPM131	M DOL	22	90 0.84 0	74 3.0 0.	2.1	2,4 2,8	0 0.1	0 0	0,1 6 0	0,1	0 0,1 5	0 0,1 5	0 0.1	0	0,0 100 3	20	
27 803-W-001 BILGE	AUGE WATER SEPERATOR LOWER DECK	MOCH FEMILIA	M FOR	30	200 000	93 93	25	2.6 3.2	0 0 0	0	0 0	000	0 00 0	0 00	000	0 1	0 0 0	0 1	
801-PA-02-8	GENERAL DREAD IN DEVINE	MOC11 FAMILIO	W W	6.5	20 0.84 0	30 22 0	17	1.7 2.1 5	0 0 02	10 0	12 10 0	0.2 10	0 02 10	0 02 10	0 02	0 0	0 100 2		
30 885-ET-T04-HA THRUS	THRUSTER JOHN H HEAT EXCHAGER FAIN	MOC11 A/S/30S	T FOR	4.0	90 0.89 Q	84 4.5 0.1	3.6	3.6 4.3 5	2 1,8	50 2 1	1,8 50 2	1,8 50	2 1,8 50	2 1,8 50	2 1,8	0 0	0 0	0	
31 898-ER-UC1 11KV	SWBD HST UPS FOR CONTROL POWER	MOC11 FPM114	M FOR	13,8VA 6	90 0.98 0.	85 11,6 0,	9.6	9,4 11,3 10	9 11 9.6	100 11 1	11 001 9/6	9,6 100	11 9,6 100	11 9,6 100	11 9,6	10 0 11	10 100 16	13	
22 887-EH001-HW THRU	JSTER VFD H WATER COCLING UNIT	MOC11 A/S/30S	T RDR	9.2	90 0,90 0,	99 9,6 0.	0 8.2	7,7 9,2 10	0 9 8.2	3 6 001	82 100 9	8.2 100	9 82 100	9 8,2 100	9 8.2	0 0	0 0	0	
30 007-E04001-480 Theru	THRUSTER VFO H PPECHARGING AND MISC. LY LOADS	MOC11 A/S/30S	T 10R	10.2	20 0.98 6	85 10.2 0.	6.2	5,1 6,1 10	0 6 5.2	100	52 100 6	6.2 100	6 52 100	6 5,2 100	6 5.2	0	0 1	0 1	
35 SEC-F-01 MOVA	ALE BOARD FOR WAIRK HIGHLIDOOR	MOCH UPPER	M NOR	000	30 0.00	20 07 03	0 47	5.6	0 00	0 0 0	0 0 00	0.00	0 00 0	0 00 0	0 0 0	0 0	0 0 0	5 0	
TOBB	Total consumtion of																		
MCC	11			1128	1	1 161	1001	950 1148	45.9 44.1	439 44	452	441	49.5 453	552 453	586 511	160	29.5	264	
THE PERSON OF STREET																			
24 97.75	VII NO 1 ON OR HE STATE OF MAN AND AN OF STATE O	900	0	L	0.00	Ľ	900	2004 4022	00	90 00	30	40.6	00 988 00	93 486	00	0	0	e	
2 304-EM112 COLUI	IAN OBMINASEER PUMP NO. 2 STANDBY	MOC12 425	0 00	9 008	080 082	86 100.2 0.5	┺	105.7	0 00	0	0 0 01	0.00	0 00 0	0 00	00	0 0	0	0	
	ATOR, STORAGE TAMENO, 1 (WBM, COLUMN)	MOC12 48P	0 000		90 0.82 0.	70 000 07	0 29.4	44.8 53.5	3 0 0.0	50 27 %	17 90 27	14.7 50	27 14.7 50	27 14.7 25	13 7.4	0 0	0 0	0	
	ATOR STORAGETAMENO, 2 (WBM, COLLUM)	MOC12 44P	0 000	30.0	0 200 0	0 000 00	29.4	44.0 50.5	3 0 0.0	50 27 %	12 50 27	14.7 50	27 14.7 50	27 14.7 25	13 7.4	0 0	0 0	0	
5 32N-EM153 AGITA	ATOR STORAGETAMK NO. 3 (WBM, COLUMN)	MOC12 42P	0 000	30.0	0.82 0	98.0	10 29.4	44.8 53.5	0 00	50 27 5	4.7 50 27	14.7 50	27 14,7 50	27 14.7 25	13 7,4	0	0	0	
6 SSA-EMISA AGIT.	ATOR STORAGETARK NO. 4 (WBM, COLUMN)	MOC12 AZP	0 0	300	0 0 0 0	0 0	28.4	44.8 53.5	0 00	50 27 5	27 50 27	14.7 50	27, 14,7 50	27 147 25	13 7.4	0 0	0 0	0 (
7 327-EMIOT TRWA	VSFER PUMPNOS : DRILL WATER DUTY	MOCH2 FAND	0 0	630 6	690 0.97 0	95 57.0	0 000	613 613	0 000	10 6	9 10 6	6.8 10	6 58 10	6 5,8 10	9 20	0 0	0 0	0 0	
9 SH-PAON-A POTA	POTABLE WATER SERVICE PURP	MOC12 FAIR	N DO	1	0.00	20 181 05	200	145 173 5	82 6	50 00	00 00	28 82	9 7.8 50	001 872 8	995 25	0	0 0	0	
10 701-PG-001-A F.O.T.	TRANSPER PLIND	MOC12 FPNP	M DOL	17,3	90 0.92 0.	94 18.7 0,1	0,810	15.0 17.9 2	3.0	20 4 3	1,0 20 4	3.0 20	4 3.0 20	4 3.0 20	4 3.0	10.0	15 100 21	t)	
11 701-PG-002-A F.O. S	O SUPPLY PUMP	MOC12 FANTIS1	M DOL	1,7 6	90 0.81 0.	77 2.3 0,	1,7	1,8 2,2 2	9 0 0.3	20 0 C	9.3 20 0	0.3 20	0 03 20	0 0.3 40	10 1	100	2 100 2	2	
12 703-PG-005-B F.O.C	CROLLATION PUMPB	MOC12 FAM131	м рос	9.6	90 0.90 0	91 8.8 0.2	7.7	7,1 8,4 6,	0 4 3.8	50 4 2	3.8 50 4	3.8 50	4 3,8 50	4 3.8 50	4 3.8	0 0	0 0	0	
13 721-PA-001-A FWD	FWD MAIN SEA COCLING WATER PLIMP	MOC12 FANSP	M SPT	162.0 6	0 0 0 0	90 1542 0	132.7	123.4 M7.4 t	74 663	50 74 0	63 50 M	66.3 50	74 66.3 50	74 66.3 100	132.7	0 1	0 1	0 1	
M (ZI-PA0D-8 IHR.	USIEN SEA WATER COOLING POWE	MOCHE PARTIE	- 100	12,7	000	89 Kab 0.	0 11.0	10.8 12.9	0 00	90 00	00 00	000	00 000 00	010 020	9 010	0 00	0 00	0 00	
10 722-MOUTA PRES	SH WATER COOLING PUMP	MOC12 APMIDS	M M EDR	1510 6	30 0.83	36 167.9 O.	0 137.3	1343 160 B	1 80 686	20 10 h	20 20 20	13.0	80 68.6 50	31 27,2 50 80 68.6 50	31 27,2	000	0 0	2 c	
U.M.0 0-100-AQ-100 71	AST PUMP, SURMEPRIBLE D	MOC12 FENS	M DOL	940	0 0 0 0	97 85.9 0.1	212	683 622	0 00	0	0 0 01	0 00	0 00 0	0 00	00	0	0.0	00	
18 803-PA-001-A BILGE	BLGEP LIVP, POYTOON	MOC12 FENSE	M DOL	12.7	90 0.88 0.	90 13.4 0.1	0 11.5	10.7 12.8	3 0 0.0	0 0	0 0 00	0 00	0 00 0	0 00 0	0 00	0	0 0	0	
19 834-PA-101-A CLEA	CLEAN SUMP TRANSFER PUMP	MOC12 FANSP	M DOL	51.8	90 0.92 0	87 54.0 0,	0 44.9	43.2 51.7	3 22	6	32 6	2.2 6	3 22 5	3 22 6	3 22	0 0	0 0	0	
20 804-PG-003-A DRAN	N TRANSFER PLIMP	MOC12 FP/42P	M DOL	4,0 6	0.82	82 4.98 0.	3.9	4.0 4.8	0 02	0 9	0 2 0	0.2	0 02 6	0 0,2	0 02	0	0 0	0	
21 804-PG-003-8 DRAN	CRAN TRANSFER PLUP	MOC12 FPN2P	M 90	40 6	0.00	82 4.98 0.	0 39	40 4.8	0 02	0 0	0 2 0	0.2 6	0 02 6	0 0.2	0 0.2	0 0	0 0	0 0	
22 801-PA001-A 11RV	CENERALOR AND LOCATION	MOC12 FAMILIO	M M	6 %	30 080	30 22 0	17	17 2.1	0 02	0 0	10 00 0	0.2 10	0 02 10	0 02 10	0 03	0 0	0 0	5 6	
24 875-ENP13 PANE	NEL BOAND FOR WATER TIGHT DOOR (REDLINDANCY)	MOC12 MI37	M FOR	7.3 6	90 0.01 0.	72 10.5 0.1	0 5.4	6.3 7.5 10	3 8 5.4	100 8 5	1,4 100 8	6.4 100	8 5.4 100	8 5.4 100	0 5.4	0	0	0	
												+							
875-EWM12, Consun	875-EWMY2, Consumption of Panel board 12	Con Constant			0 000	3				000	0 000	000	000				0	c	
2 GREENSON CONTROL	Provider Continue Chini	MPD 1	2 6	0 0 0	000	20 00	0 00	26.0 20.0	0 0	9 60	0 0	000	00 00	00 00	00		9 6	5 0	
	28 LIFT IN POST COLLMN	MPRIZ BIP	M RDR	000	080	31 00 03	202	40 574 5	8	9 01	2.1 10	21 10	5.1 10	8.1 10	9 12	0	0 0	000	
4 635-60-03-6 THRUE	THRUSTER B LUBRICATION UNIT	MPB12 FAV11P	T 10R	25	00 000 0	91 5,4 0,1	0 47	43 5,2 10	5 47	100 5 4	1,7 100 5	4.7 100	5 4.7 100	5 47 100	5 47	0	0	0	
	JSTER B HYDRALLIC POWER PACK 1	MPB12 FPV11P	T FOR	9 0'06	0.88 0.	93 92.1 0,	818 0	73.7 88.1 16	3 88 81.8	100 88 81	1.8 100 88	81.8	88 81,8 100	88 81.8 100	88 81.8	0 0	0 0	0	
	JSTER B HYDRALLIC POWER PACK 2	MPB12 11P	T FOR	90'0	90 0.88 0.	23 22.1 0,	818 0	73.7 88.1 10	3 88 81.8	100 88 81	1.8 100 88	81.8 100	88 81,8 100	88 81,8 100	88 81,8	0 0	0 0	0	
7 731-405-001-A STAR	RIING AR COMPRESSOR	MPB12 APY1358	M FOR	230 6	0.94	22.3	562 01	17.8 21.3	1 10	9	10 6 11	1,0 6	1 1,0 5	1,0 10	2 2.0	10.0	20 100 25	ន	
Bath-Hulling HPPI	MOTOR POR PERMOTE CORTINOL VALVE	MPS12 APMILIS	M HOR	180	000	80 19.8 U.	201	181 183	00		0 00	0.0	1 03	00 0	80 0	000	15 100 23	20 4	
so agg-fithware then	SOLITION OF THE STATE OF THE ST	MDB12 CD110	2 2	200	0 000	30 00	11	11 17 6	0 00	0 02	0 00	46 90	00 00	2 48 50	000		9 6	5 0	
11 BEC-EHOOLIN THE	STEP VED B WATER COOLING	MPR12 FP/11P	T	82	080	98 98	0 82	77 9.2 10	9 82	6 001	12 100 9	82 100	9 82 100	9 82 100	9 82	0	0	0	
12 BIT-EH-031-BB THRUI	JSTER VFD B PRECHARGING AND MISC. LY LOADS	MPB12 FAV11P	T FOR	10.2	90 0.98 0.	85 10,2 0,	0 6.2	5,1 6,1 10	3 6 5.2	100 6 5	3,2 100 6	6.2 100	6 52 100	6 5,2 100	6 5.2	0 0	0 0	0	
	SAML L POWER TRAKSFORMER 830W400V FOR HEAT TRACING 100KVA	MPB22 NR13	M FOR	100.00	1,00 1,00	00 83.7 0,	0.85.0	71,1 85,0 4	34 340	40 34 3.	10 40 34	34.0 40	34 34,0 40	34 34.0 40	34 34.0	0 0	0 0	0	
14 816-F-001 LCP F	FOR HELIDECK	MPB22	M RDR	6.8	1,00 1,	00 49 0,	4.6	3.9 4.6	0 0'0	0 0	0 0 00	0.0	0 00 0	0 000	0.0	0 0	0 0	0	
Total	Total consumption of MGC 12			1482		1891	1 30 2	1299 1883	450 408	615	285	283	612 516	612 516	129	121	141	2	
DRILLING, 69 6VAC MCC 13, 873-EN-N	DRILLING, 698VAC MCC 13, 873-EN-M93	-		L	l		L				L					=			
2 312-EM002A AHD		MOC13 N/A	0 00	630	690 0.93 0.	0.87 65.2 0.5	0.80 54.2	52.1 62.3	0 0 0	30 19 14	16.3 30 19	16.3 30	19 16.3 50	31 27,1 0	0.0	0 0	0 0	0 4	
Т	AND DEWN WORKS AW HITO MOTOR BA	MOCES NA	0 0	40	0.00	44 0	3.1	3.7	0 0	0 0	0 00	03 00	0 03 10	0 0	0 0	0 0	0 0	0 6	
Г	DI DRAWWORKS MW BLOWER MOTOR MA	MOC13 N/A	0 000	63,0	690 0,93 0,1	87 66.2 0.80	10 642	62.1 62.3	1 0 0.0	30 19 16	13 30 19	16,3 30	19 16,3 50	31 27,1 0	0 00	0 0	0 0	0	
Ш	DEDRAWWORKS MW HPU MOTOR #A	MOC13 NA	0 000	4.0	ш	ш	Н	3.1 3.7	0 000	100 4	3,1 100 4	3.1 100	4 3,1 100	4 3.1 0	00 0	0 0	0 0	0	
	DI DRAWWORKS MW LUBE OIL MOTOR AN	MOC13 NA	0 000	0.00	_	62 0.	43	4.1 4.9	00 0 0	100	4.3 100 5	43 100	5 43 100	6 43 0	0 00	0 0	0 0	0	
	POWER JUSTOR WITE LINE (ONC)	MOC13 NA	O PDR	0.00	0.03	0.85 80.0 0.0	0 67.4	06.4 79.3	0 0	20 16 17	35 30 10	13.5 20	16 135 20	20 13.5 0	0 0	0 0	0 0	0 4	
	TEN AIR FOR WHITE LIves FLOWER FRAIN, ETF'S	MOUTS INTO	0	7 1700		2001	000	94.9	0	20 97	73 401	17.01 .001	20 11.0	0 11/3	10	10	in in		
																		900	nt 7 of 17

NOTIFICATION OF THE CONTINUE O	MOC	SER. STARTER		CONNECTE D LOAD	5		TRANSIT + DP 75%	TRANSIT MODISING + THR + DP 75% ASST 50%	THR.	DRILLING + DP 80%	+ DP75%	BK REAN'G + DP 75%		WELL CIRCN AFTER DP MAX S NOLE FALLINE	DEAD SHIP POWER	EMERGENCY	MODE		Reference Low Speed
	NO		WW VOI	t EFF PF /	NA NA	AMP	KA DF KA	KW DF KWA	kW DF K	KVA kW DI	KVA KW	D# KVA	kW DF N	W D	KVA KW	DF N/A	kW		Rat
10 32N-EM101 MUD MK PUMP NG 1 - B PRNEW BM DUTY	MOC13 M151	0 000	67.0 61	0.95 0.95	3,5 0,90 63	919 0	9,7 0 0	0.0 20	12.7 20	12.7	15 1	7 20 15	12.7 30	15 12.7	0 0	0 0	0		
11 32A-EM103 MJD TRANSFER PURP NO.1 - BRINEWBMDUTY	MOC13 M151	000	67.0	0.000 0.000	15 090 63	919 0	0 0	0.0 20	12.7 20	127 2	15	7 20 15	12.7 0	000	0 0	0 0	0 1		
STATE OF THE PROPERTY OF THE P	MOCES MINE	8	200	000	12 080 11	200	0 0	96 00	2000	0 00		3 2	28 60	2 2			0		
325-EM103A	4	0 000	13,0 6:	0.92 0.83	1,2 0,80 11	11.4	0 0 0	0.0 25	3 2.8 25	3 2.8	3	B 25 3	2.8 50	7 5.7	0 0	0 0 0	0		
16 325-EA104A HP MUD PUMP NO. 1, UNER SPRAY PUMP MOTOR	MOC13 M151	0 007	2,3 6	0.83 0.82	A 0,60 f.	17	0 0 0	0.0 100	2 1,6 100	2 1,6 10	0 2	A 100 2	1,6 50	1 0.8	0	0 0	0		
16 326-EMI0SA HP MUD PUMP NO. 1, LUBE OL MOTOR	MOC13 M151	000	1,1 6	0.78 0.80	5 0.60 0.	0.9	0 0	0.0 100	1 0.8 100	1 0.8 10	1	.a 100	0.8	1 0.4	0	0	0		
17 225-EMILL MUD CHARGE PUMPING 1 DUTY	MOCES MISS	0	22.0	0.95 0.63	3.4 0.80 43	9 443	0 62	0.0 70	30.7 70	37 30.7	37	37 20	30.7 38	19 15.4	0	0	0		
18 SOLUMIN MOUNTAINED FUNE NO SUCIT	MOCES MINES	0 0	2000	0.00 0.00	63 070 52	1 1944	0 0	00 30	20.0	40 30.7	42 3	3 30 40	363 56	21 192		0 0			
343-EM101B	MOC13 M039A	000	165.0	0.06 0.87 1	63 0,70 121	1 116.4	382 0 0	0.0 30	38.3 30	0 363	42 3	3 30 42	36.3 15	21 18.2	0	0 0	0		
	MOC13 M209A	0 00	165,0 61	0.95 0.87 1	6,3 0,70 121	1 116.4	39,2 0 0	00 30	22 36.3 30	42 36.3	0 42 3	3 30 42	36,3 16	21 18.2	0	0 0	0		
343-EM102A	MOC13 M209A	D 00L	12.7 6	0.92 0.81	4.3 0.70 9.	10,0	2,0 0 0	0.0 50	6 4.9 50	6 49 6	9 0	9 50 6	49 80	6 49	0 0	0 0	0		
23 343-EM103 HYDRALLIC POWER UNT (PPU), RNE RLTER PUMP	MOCES MEDIAN	0 007	0.3 61	0.95 0.88	3 0,70 a	0.2	0 0 0	0.0 100	0 02 100	0 0,2 10	0 0	2 100 0	0,2 100	0 0,2	0	0 0 0	0		
	MOC13 M210	0	4,0 61	0.89 0.84	5 0.80 3.	3.6	0 0	0.0 50	2 1,8 100	4 3.6 10	4	. 100 A	3.6 100	4 3.6	0	0 0	0		
25 BIT-EN-BOT-A DEWEN IN COCLING PURP MOTOR A	MOCES AREO	0 0	9 9	000 000	5 080 7	99 00	0 0	00 00	92 92	9 9	4 4	4 4	8 8	9 9	0 0	0 0	0 0		
Total consumition of																			
MCC 13			1120		167	15 392	1 056	93	255	288 291	340	355	312	14.5 1.25	0	0	0		
MANNE, 850Y AC MCC 14, 873-EN-M94																			
1 570-GA-130A JUNCTION BOX FOR AMJ 8901 (570-JB-00.2)	MOC14 MR27	V ZSPEE	9 000	0.00 0.00	3.6 0.80 40	303	65 100 46	40.9 100	40.9 100	469 10	46 4	39 100 46	40.9 100	46 40.9	0	0 0	0 1	WAY.	
3 507-58-250A VIEW III.AHUAY PANTAMAN INDIA MATIN MATIN	MOCIA NA	V 20000	22 6	0.77 0.86	82 080 2	53	2 100	23 100	3 23 100	3 20 8		3 100 3	23 100	3 50		0 0		V36-0	١.
5 STHEON OHLERUNT	MOC14 FPM132	V FOR	367.5	1.00 0.91 3	7.0 0.80 2.86	2616 3	127 25 78	71.6 26	71.5 50	156 143.0	156 14	0 00 0	1430 25	78 71.5	0	0 0	0		
6 STI-PA-001A CHLLED WATER CIRCLIATION PUMP	MOC14 FPM132	V 00L	75.0 6	0.90 0.91	3.6 0.80 66	613	33 60 37	33,3 50	33,3 50	37 33.3 6	37 3	3 50 37	33,3 50	37 33.3	0 0	0 0	0		
9 578-CD-133A VENTILATION FAN (CENTRE USAL) FOR M131	MOC14 FPM131	V 2SPEE	1,1 6	0.71 0.94	38 0.80 1,	171	1,3 60	0.6 50	1 0.6 50	1 0.6	1	. 60 1	0.6 50	1 0.6	0	0 0	0	0.25 H	W
10 578-QE-299A VENTILATION FAN (AXIAL) FOR M132, M194, M216	MOC14 NA	V 2SPEE	0 22 6	0.77 0.85	82 0.80 2	23	2,7 100 3	2,3 100	3 23 100	3 2,3 10	3	3 100 3	2,3 100	3 23	0	0 0	0	0.660	
	2 :	A ZSPEI	9 99 0	0.77 0.02	7 0.80 6	2.0	00 100	001 000	00 100	0 00	0	9 100	00 100	0 00	0	0 0	0	1.00	
52 SIN-SECTION VEHICLE CONTRACTOR AND MAN MANS MANS AND SIN-SECTION AND MAN	MOCIA MAD	V 20000	22 6	0.00 0.00	9 080 2	23	9 90	1.0 50	13 80	2 :		2 20 2	8 9	2 :		0 100		0.000	. 3
	MOC14 OUTSIDE	V 000	0.25	0.71 0.64	48 0.80 0.	0.4	0 100	0.3 10.0	03 100	0 03 10	0	3 100 0	03 100	0 03	0	0 0	0		
578-0E-2728		V 000	0.25 6	0.71 0.64	46 0.80 0.	0.4	0.4 100 0	0.3 100	03 100	0 0.3 fc	0 0	3 100 0	0.3 100	0 03	0	0 0	0		
16 578-GE-273C THEPRINL GIL HEATED VENTING FAIN FOR CELLAR DECK/AFT MOONPOGL.	MOC14 OUTSIDE	V 00L	0.25 61	0.71 0.64	48 0,80 0,	0,4	0,4 100 0	0,3 100	0.3 100	0 0,3 10	0 0	3 100 0	0,3 100	0 0'3	0	0 0	0		
17 578-GE-2725 THEPARAL OLI HEATED VENTING FAW FOR DRULL FLOOR AFT PORT		V 000	0.25 61	0.71 0.64	48 0,80 0,	0.4	0.4 100 0	0.3 100	00 0.3 100	0 0.3 10	0 0	3 100 0	0.3 100	0 03	0	0 0	0		
20 BTB-EFE-VOT VFD FOR FWD PS ENGINE ROOM VENTLATION FAN	MOC14 FPM109	V FOR	220,0 6	0.95 0.80 2	2.2 0.60 138	146,3	73.7 100 174	138,9 100 1	74 138.9 100	174 138.9 10	0 174 13	.9 100 174	138.9 100	174 133.9	0 0	0 100 275	220		
UMOC-21070		M FOR	2.2 8:	0.80 0.80	9 0.80 2	2.3	2.8 40 1	0,9 40	1 0.9 40	1 0.9	1 0	9 40 1	0.9 40	1 0.9	0 0	0 0	0		
22 U-00-070 US ON GLASS CRUSHER	MOC14 A337	M FOR	3.8 6	0.84 0.80	7 0.80 3.	3.8	1,5 40 2	1,4 40	2 1.4 40	2 1,4	2	A 40 2	1,4 40	2 1.4	0	0 0	0		
	MOC14 MS27	V 2SPEE	17.6 61	0.91 0.83	3.5 0.80 15	15.8	8.6 100 19	15.5 100	15,5 100	19 15.5 10	19 1	5 100 19	15.5 100	19 15.5	0	0 0	0	5.30	
	MOC14 M336 OUT	V DOL	3,3 6	0.83 0.87	85 0,80 3,	3.1	3,7 100 4	3,2 100	4 32 100	4 3.2 10	9	2 100 4	3.2 100	4 3.2	0 0	0 0	0		
28 578-CE-14TC VENTILATION FAN (AXXIA) FOR M137, N218	MOC14 M336 OUT	× 000	4,4 6	0.83 0.84	3 0.80 4	42	5.0 100 6	4.2 100	6 42 100	6 42 10	9 0	2 100 5	42 100	6 42	0	0 0	0		
27 DRIVERHUT LCP FOR ELECTRIC HEATER STOP E-4SZA	MOC14 BYP	V HOR	38.0	0.90	26 0.80 34	33,0	0 48	0.0	0 00 0	0.0	0	0 0	0.0	0.0	0	0	0	Ì	
Total consumption of			-				-		-	-	,		1			,	2		
														1			2000		
MARINE, 6 SOVAC MCC 15, 673-EN-M95																			
1 570-CE-263A VENTILATION FAN (AXIAL) FOR M303A, M308, M308, M403	MOC15 M03	V 2SPEE	0 22 6	0.82 0.78	9 0.80 2	2.3	2,8 100 3	2,1 100	3 2,1 100	3 2.1 10	3	.1 100 3	2,1 100	3 2.1	0	0 0	0	0.459	W
2 005-SC-001-M BREATHING AR SYSTEM	MOC15 M335	M RDR	5,5 61	0.95 0.80	,1 0.80 4,	4.8	5,8 0 0	0 00	0.0 100	6 4.6	0 0	0 0 0	0.0	0 0'0	0	0 0	0		
3 STI-GA303A JUNCTION BOX FOR AHU 690V (\$71-LB-00.2)	MOC15 M501	× 000	17.3 6	0.92 0.88	7.9 0.80 15	14,3	7.1 100 1.7	15,0 100	15.0 100	17 15.0 10	17 1	71 001 07	15.0 100	17 16.0	0	0 0	0		
4 ST1-GA-300B JUNCTION BOX FOR AMJ 890V (ST1-JB-004)	MOC15 M501	> 000	17,3 61	0.92 0.83	7.9 0.80 15	14,3	7,1 100 17	15.0 100	15.0 100	17 15.0 10	1. 1.	71 001 0	15.0 100	17 15.0	0	0 0	0		
5 STILLWOOD SUNCTION BOX FOR AND BROK (STILLBOOD)	MOC15 M011	, v	3,40	000 000	09 070 3	33	001 00	3,4 100	9,4 100	4 3.4 10		A 100 A	3.4 100	9 3.4	0 0	0 0	0		
STATEMENT CONTINUED TO A PROPERTY (STATEMENT)	MCC15 W031	A	340	000 000	080 3	90	001	3.4 100	00 100	1 0 0 0		4 100	3.4 100	8 0	0 0	0 0	0		
01.000.00 00.000 00.000.000 00	a constant		9 9	0000	000	9 9		000 000	000	000		000	000 000	0 0		9 0	0		
OF CALCOCAL INVESTOR DOCUMENT CONTINUES CONTIN	TOOLS BAND		200	000 000	000	0.0		3.4 400	20 00	200		000	3.4 500	9.0		9 0	0		
OF CALADA SALINCTION BOX FOR A HIROTOCKING BOX	MCC15 MAD3	000	345	080 088	080 3	33	1001	3.4 100	34 100	34 50	. 4	4 100	34 100	3.6			0		
STICKNOOD SUNCTION BOX FOR AN ISSUE BOTTO	MOCIE MOSE	2 00	3.45	000 000	080	2.6	100	001 000	000000000000000000000000000000000000000	1 20		000	34 00	100		0 0	0		
Γ	MOC16 MO14	000	0 0	0000 0000	000 0	7.0		001 00	00 100	20 00		00000	000	000			0		
13 STI-CO 302A VENTILATION FAN (CENTRE USAL) FOR MY, & 350 DECK IN ACCOMMODATION	MOC15 M/04	V 000	8.8	0.89 0.83	8 0.80 7.	2.8	9.4 100	7.8 100	7.8 100	2 7.8 10	6	8 100 9	7.8 100	9 7.8	0	0 0	0		
511-CD 3 (22.8) VENTILATION FAN (CENTRE UGAL) FOR NAY, 8, 390 DECK IN ACCOMMODATION	MOC15 M/04	V 000	9 06	0.85 0.85	3,4 0,80 8,	8.3	00 100	8,5 100	00 8.5 100	10 8.5 10	01 0	5 100 10	8.5 100	10 8.5	0	0 0	0		
VENTILATION FAN (CENTRE USAL) FOR 2ND (MOC15 M901	V 000	1.8 61	0.76 0.85	3 0.80 1.	1,8	2.2 100 2	1.8 100	2 18 100	2 1.8 10	0 2	8 100 2	1,8 100	2 1.8	0	0 0	0		
AUTO 3038 VENTUA	MOC15 M901	V 000L	1.8 61	0.76 0.85	3 0.80 1.	1,8	2.2 100 2	1.8 100	2 18 100	2 1.8 10	0 2	8 100 2	1,8 100	2 1.8	0	0 0	0		
571-3D 304A	MOC15 Ma01	V 000L	2.6 6	080 087	.1 0.80 2	2.6	3.9 100	2.6 100	3 2.6 100	3 2.6 10	9	6 100 3	2.6 100	3 26	0	0 0	0		
NOT ACCOUNT NEW TATABLE SAME DESCRIPTION FAN CONTRIBUTION DESCRIPTION ACCOUNTS IN	MOC15 MAD1	V DO:	2.6 6	210 010	1 0.80 2	2.5	00 00	13 50	13 50	1.3		3 50 1	1.3 50	1.3	0	0	· a		
571-CD-105A	MCC15 M03	V DO:	1.0	0.70 0.85	3 0.80 1	10	2.2 50	09 80	0.9 50	1 03		2 50	0.9	1 0.9	0	0			
	MOC15 MW3	V 000	18 61	0.78 0.85	3 080 1	1.8	2.2 100 2	1.8 100	2 18 100	2 1.8 10	2	8 100 2	1.8 100	2 1.8	0	0	0		
-cn.306c	NO. BADDES	>	28 8	080 080 0	1 080 2	3.6	0.0	2.8 10.0	38 100	30 90 10		8 100	2.6 100	3 28		0	c		
COLUMN CONTRACTOR CONT	NOTE THAT		2 4 6	000 000	0000	9 6	200	20 000	90 00	200	5 0	000	20 500	9 0		9 0	0		
23 KRL CO DOSE VENTILATION FAN (CENTRELISAL) BOR LOWER A TWEEN DECKIN ACCOMMODATION	N MOCHE MAN 3	700	36 6	080 080 0	15 080 3	33	100 100	3.6 10.0	36 100	36 %	9	5 100 d	3.6 500	4 36	0	0			
ASTRONOMY OF MINITARION FAN (OF MIRE LOAD) FOR LOWIS A TWEST DECK IN ACCOMMODATION	N MCC15 M03	V DO:	3.6	. 610 010 0	15 0.80 3	33	4.0 100	3.5 100	35 100	4 35 %	9	5 100 4	3.5 100	4 35	0	0	· a		
	MOORE MANS	000	0.44	0.21 0.00	0000 000	200	90	000 000	000 400			4 400	0.5				0		
SCHOOL CONTRACTOR AND A CANAL STORE OF CONTRACTOR ACCOUNTS OF CONTRACTOR AND CONT	MOORE MINE	000	0.44	0.71 O.04	000 000	200		000 000	000 400			4 400	0.5				0		
27 KR OB ONE VENTILATION FAN AND LINGS IN BUILD IN A COMMONTON	MOC16 Man 1	000	48	0.83 0.86	080 4	46	4 100	48 100	46 100	48 20		100	4.6 100	48	0	0 0			
	arona arona	8	0.00	0.50	000 000			0.0	0.3 400	200			0.5						
STATE OF THE PERSON OF THE PER	acons associa	- 1	000	100 100	000		200	000 000	000 000	2000		000	000			0 0	0		
an ocom	MOCIO MODI	2 6	33.8	100 100	22 080 28	220	2 00 000	26.9 100	000 100	24 26.9 K	4 0	20 000 00	20.0	0 00	0 0	0 0	0		
SE STINGRICH HUMDFERFORM MUST CANDER ON 1.2	MCC15 MS01	A HOK	333	100 100	42 080 28	22.0	27 100 27	26,9 100	201 100	27 28.9 10	27	3 100 Z/	20.9 0	000	0 1	0 0	0		
Ī	MOC15 MS01	A FOR	33.8 6	100 100	3.2 0.80 28	22.5	8.9 100 27	26.9 100	20 100	27 26.9 10	27 2	27 100 Z7	26.9 0	0.0	0	0	0		
34 STI-GKJ008 HUMDFER FOR ANJ STI-GA-3008 GKT.2	MOC15 M901	> 808	33.8	1,00 1,00	1,2 0,80 26	22.5	53 100 27	26.9 100	22 203 100	27 26.9 10	27 2	3 100 Z7	26.9 0	0.0	0	0	0		
Ī	MOC15 MB01	> 108	33.8	100 100	1,2 0,80 28	22.5	8.9 100 27	26.9 100	27 28.9 100	27 28.9 10	27	27 27	26.9	000	0	0	0		
STI-CACJON HUMDFERFOR AND STI-CACJONA CAT.	MCC15 MWD1	NO I	435	100 100	3.4 0.80 34	18	100 30	34.8 100	24.8	348	20 20	100	348	000	0	0	0		
HOMOFER FOR AND STORE	WOULD WAST	× :	430	000	24 000 34		100	340 100	310	340	0 1	9 100	340	000		0 1			
HOMOFER	MCC15 Mag3	A P	333	100 100	4.2 0.80 28	22.0	2 100 21	26,9 100	72 700	26.9 16	27	3000 20	20.9 0	000		0 1	0		
39 ST-GK-3088 HUMDFER FOR AHUST LGA-305CD CKT.1	MOC15 M211	> BB	43,5 6	1,00 1,00	3,4 0,80 34	29.1	M.8 100 35	34.8 100	34.8 100	35 348 10	35 3	.a 100 35	348 0	0.0	0	0 0	0		
40 STI-GK-3008 HUNDFER FOR AND STI-GK-305 OKT 2	MOC15 M211	A POR	40.5	100 100	1.4 0.80 34	29.1	100 35	34.8 100	28 34.8 100	35 348 10	32	35 100	348 0	000	0	0	0		
to continuous to the same			l	ļ	ļ	İ	ļ		ļ	ļ	ļ	ļ	l	ļ	l	ļ		l	
AND CASE			39.3		ě	222	443	,	ş	700	9	70	70		4	•	•		
	-]								•	_	l
MAINNE SSOVAC MCC 21, 873-EIN-M95																			
THE CANADA IN DOMINO IN DOCUMENT THE THE THE THE THE THE THE THE THE TH	MAN SECOND	0		20 0 00 0	000	0.00	0 0	0 00	00 00	400	020		40.0			0	c		
CONTRACTOR OF THE PROPERTY OF	MCC21	98	000	0.08	60.3 0.80 49.0	482	0 0	0 00	00 100	69 490 10	100	90 100 68	49.0	29 246	-	0) e	l	
3 (0)-E-00-6 LPEBOATDANT NO2 CONTROL PAREL		M FOR		0.85	080	30.2	0 0	0.0	0 00 0	0.0	0		0 00		0	0 0	a		
A 20 00 00 00 00				2													5		
																		Sheet 8 of 17	4

Odfiel/ G F Project NO: 3025

ELECTRICAL LOAD ANALYSIS

L			-	Г			OF O I O MAN AND ADDRESS OF		L		Ľ	RANSIT	WOORNG +	260	DISITING	8	DRELING	BK REAN'	Г	WELL CIRCH AFTER DP					Saference
N/S	Equipment number	mber DESCRIPTION	WOC ON	A VCE	E TYPE	3	and the same	-	5	+	1	*52 400 +	ASSTSON	-	* 06 60 *		DP75%	4 CP 75%			DEAD SHIP POWER	-	NOT MODE.		Low Speed Rafing
ľ	875 CO-31 COS	MIT See and Annual Com	703 t MA	ľ	aua	000		70	280	12	0 00	000		000		╙	00		000	00	0	0			
10	571-PA-101-B	Γ	OC21 FP/107	2	DOC	L	68'0	11,4	H	9.1	00	5 4.9	3 20	4.9 50	100	4.9	6.9	20	49 10	1 1,0 0	0	0	0 0		
9	581-FC-001-B	CALORFER	OCC1 FEMIL	23	FOR	Ш		136.3	0.80 108.5	100.0	0.3 25	33 27.4	1 25 33	27.4 25	33	7.4 25	33 27.4	25 33	27.4 25	33 27.4 6	0	0	0 0		
7	581-PA-002-B		OC21 F/SM1;	23 M	700	2.5 690	28.0 0.82	3.1	0.80 2.4	2.6 5	09	1,1	2 50 1	1,2 50	-	1,2 50	1 12	50 1	1,2 100	3 24 6	0	0 0	0 0		
80		Ì	OC21 F&MI:	22	ROR	2.5 600	0.63 0.67	6.0	0.80 3.2	40	28	1 0.2	1 25	0.8 25	-	0.8	00	0	0 0 0	000	0	0	0		
en S	9 601-EC-001-0	MAN ENGINED TURNING GENERALITY	OCS1 FAMILES	2 2	AD I	2,5 690	0 0.63 0.67	6,0	0.80 3.2	40 4	N 8	100	200 0	0.0	- 0	0.8	0 0 0	0 0	000	00000	0 0	0 0	0 0		
1	901-EC-002-D	Τ	STATE FEMALE	2 2	NO.	L	10.00	340	100 234	340	2 2	000	7 25 0	0.0	0	00 22	00	25 0	0.0	0 00	0	0 0	0 0		
12	835-60-03-6	ĺ	OC21 F6/23P	Ι.	FOR	52 690	3 0.08 0.91	5.4	0.80 4.7	43 6	2 100	5 4.7	7 100 5	4.7 100	9	4.7 100	5 4.7	100	4.7 100	5 47 0	0	0 0	0 0		
53	835-EC-002-EA	A THRUSTER E HYDRALLIC POWER PACK 1	OCC 1 FENZSE	1	FOR	90.0 695	0.88 0.93	92.1	0.80 81.8	73.7 8	1,1	88 81,6	3 100 88	818 100	86	1,8 100	88 81.8	100 88	81.8	88 81.8 6	0	0 0	0		
3	835-EC-002-EB		OC21 F&23F	-	FOR	90.0	0 0.88 0.93	177	0.80 81.8	73.7 8	3,1 100	88 81.5	9 100 88	81.8 100	88	1,8 100	88 81.8	100 88	81.8 100	88 81,8 C	0	0	0 0		
16	702-CF-001-B	Ī	OC21 FSM1:	30 W	70R	175,0 690	0.95 0.94	164.0	0.80 147,4	131,2 18	6.8	78 73.1	7 50 78	73.7	22	3.7	78 73,7	50	73.7 80	78 73.7 (0	0	0		
99	703-PG-003-C		DOZ 1 FAMIL	8 :	7000	8.6 69.	0 000 001	88	7,7	7.1	8 8	31	8 50	3.8 50	4	38	3,8	50	38 80	4 3.8	0 0	0 100	8 00		
1	221-24-003-0		OCC1 PASS	W *	- 6	102.0 698	0.00	1542	300 132.1	123.4	20 00	74 05.	800	200	8 4	00 00	74 083	00	863 100	132.7	0 0	80.0	102		
9	122 DA.015.0	EDECAL WATER COLUMN BIND	TOTAL ENGINEER	- 12	3 8	610 000	1 000 000	60.00	000	66.5	96 0.	46 43	2 26 46	10.0	8	20 00	34 27.3	200	27.0	31 27.3		0 0	0 0		
8	722-F-001-8		OC21 FBM15	22 W	FOR	3.0 600	0.00 0.80	4.5	100 43	45 5	18	1	1 25	1.1 25	١.	11 38	1 1.1	25	11 28	1 1.1 0	0	0 0	0		
21	722-F-002-B	HT-PREHEATING UNIT	OCC1 FEMILE	22	FOR	108.8 6.90	1 0.95 0.90	106.4	1,00 114,5	108.4 12	7.2 25	32 28.6	1 25	28.8	8	8.6 25	32 28.8	25 32	28.6 25	32 28.6 0	0	0 0	0		
22	801-PA-001-B	В	0221 FP/8P	×	000	84,0 690	1 0.94 0.87	85.9	0,80 71,5	68.8	. 0	00	0 0	0 0'0	0	0.0	0 0 0	0 0	0.0	0 00 0	0	0 0	0		
23	803-PG-101-B		OC21 FAM15	30 M	000	22 690	1 0.84 0.74	3.0	0,80 2,1	2,4	9	0,1	0 9	0,1 6	0	0,1 6	0,1	0 9	0,1 6	0 0,1 0	0	0 0	0 0		
75	24 804-PA-005-A		OC21 FA/505	2	000	060 970	1 0.88 0.91	0.99	0,80 7,8	7,2 8	9	0 0.4	0 9	0.4 5	0	0.4	0 0,4	0	0.4 5	0 0.4 0	0	0 0	0		
32	881-PA-001-C	1 INV GENERATOR-C DE LIO PUMP	OC21 FS/M12	22 M	700	1,75 000	0.84 0.80	2.2	1,7	1,7 2	1,1 10	0 0.2	2 10 0	0.2 10	0	0.2 10	0 0.2	10 0	0.2 10	0 0.2 0	0	0 0	0 0		
88	881-PA-002-C		OC21 F/SM1;	22 M	700	1,75 600,	0.84 0.80	2.2	0.80	1,7	1 10	0.0	2 10 0	0.2 10	0	0.2 10	0 02	10 01	0.2 10	0 0.2 0	0	0 0	0 0		
22	995-ET-T04-EA	1	OC21 FS/23F	-	FOR	4.0 600	2 0.89 0.84	4.5	0.80 3.6	3.6 4	3 90	2 1.6	9 50 2	1,8 50	2	1,8	2 1,8	50 2	1,8 50	2 1,8 6	0	0 0	0 0		
38	985-ET-T0.7		OC21 F/SM1;	21 M	FOR	40.0 696	0.05 0.00	44.0	0.80 33.7	35.2 4	0,1	4 3.4	4 10 4	3,4 10	4	3.4 10	4 3.4	10 4	3.4 10	4 3.4 6	0	0 0	0 0		
82	985-ET-T10-A		OC21 FSW1;	21 M	FOR 20	0,0KVA 69C	1,00 1,00	167,3	0.80 160.0	133.9 16	00 00	80 800	0 00 0	80.0 50	80	0.0	80 80,0	80 80	80.0 50	80 80.0 C	0	0 0	0 0		
8	30 896-ER-UC2		OC21 FSM1	10 M	10R	3.8KVA 69.	0.98 0.85	11.6	0.80 9.6	9,4	100	11 9.6	11 000 11	9.6 100	11	9,6	11 9.6	1100	9,6 100	11 9.6	0	0 100	16 13		
31	967-EH-001-EA		0021 F6/23F		NO.	92 03	0 0 0 0 0 0	9'6	0.00 0.2	7.7	2 100	8 .	5 100	82 100		82 100	9 82	000	82 100	9 82	0	0 1	0 1		
2	34 806.FNLP1212	DAME ROAD FOR WATER TOAT DOR	2001 1902	- 2	E S	80 800	0.077 0.68	9.6	380 47	88	001	4 6	2 000	47 100		47 100	20 0	100	47 100	7 47 0		9 0	0 0		
5	-	1	-	E		20		***	000	2		1			-						•		2		
		Total consumption of		ł				t	ŀ	t	ŀ	ŀ	L	L	ŀ	F	l		F			L			
		MCC2H				1445		1 445	1 252	1 179	1 453	555 510	555	510	670 60	608	6.83 620	683	620	697 635			134 174		
MA PINE,	699 VAC MCC 22,	873-EW-M97																							
-	324-EM110	COLUMN WISH TRANSFER PUMPING 2 STANDBY	OC22 42P	٥	700	99.0 690	0 0.95 0.05	100.2	0.90 92.6		0 2,70	0 0.6	2 20 22	18.5 20	22	0.5 20	22 18.5	20 22	18.5 0	0 000	0	0 0	0		
2	2 324-EM111 COLUMN	COLUMN CBIATRANSFER PUMP NO. 1 DUTY	0022 425	0	700	98.0 69.	0 0.95 0.05	100.2	0.90 92.6	90,1 10	107,7 0	0 01	0 0	0 0 0	0	000	0 0 0	0	0.0	0 000	0	0	0		
-	324-EM115	TIMMSPER FUMPROT - COMPLETION PLUID DUTY	0022	1	700	38.0 69.	0.00	100.2	0.90	100	27	0	0	0 00		000	000	0	000	000	0	0	0		
4	304-EM155	AGITATOR STORAGETANK NO. 1 (OBM, CO. UNK)	988	0 0	8 8	30.0	0 0 0 0	080	030 294	9 0	0 0	0 0	27.	24.7	0 0	47 88	2 24.7	50 27	147 28	13 7.4	0 0	0 0	0 0		
0	234 C34667	AGILATOR STORAGE LAW NO. 2 (CEM COLUMN)	2000	0	3 8	30.0 600	0 0 0 0 0 0	0 00	100 004	440	0 0	0 0	3 60 27	2 2 2	200	8 8	27 547	20 20	147 25	42 24 0		0 0	0 0		
2	304,FM168	ACITATOR STORAGETANK NO 4 CORM COLUMN	2002	0	300	30.0	0.80	660	180 294	448	0	0	22	525	27	47 60	27 147	50 27	147 26	13 7.4 0		0 0	0 0		
	307-EM102	TRANSFER PUNPAG - DRILL WATER DUTY	CCC FENS	0	6	000	1 0.87 0.85	27.0	290	813	0 0	00	9 10	5.8		2 10	88	10	0 88	0 00	0	0 0	000		
6	327-EM104	SERVICE PUMP NO 2 - DRILL WATER DUTY	OC22 FANS	٥	700	25.0 690	1 0.99 0.99	21.4	0.90 22.8	19.3	0 01	000	1 50 12	11,4 50	12	1,4 50	12 11,4	50 12	11,4 50	12 11,4 0	0	0 0	0 0		
10	10 581-PA-001-B	POTABLE WATER SERVICE PUMP	OCC 2 FENSS	M	DOL	17.3 695	3 0.89 0.90	18.1	0.80 15.8	54.5	3 50	9 7,5	3 50 9	7.8 50	8	7.8 50	9 7.8	50 9	7,8 100	17 15.6 6	0	0 0	0 0		
11	201-PG-001-B	FO.TRANSFERPUMP	OCC PARTS	M	700	17.3 695	0.92 0.84	18.7	0.80 15.0	15.0	00	4 3.6	2 20 4	3.0 20	4	3.0	4 3.0	20 4	3.0 20	4 3.0 6	0	0 100	21 17		
12	701-PG-002-B	F.O. SUPPLY PUMP	OC22 FSW11	30 M	700	1,7 696	0.81 0.77	2,3	0.80	1,8	2 30	0 0.5	3 20 0	0.3 20	0	0.3 20	0 0,3	20 0	0.3 40	1 0.7 6	0	0 100	2		
13			OC22 FSM1;	30 M	700	8.6 690	0.90 0.91	8.8	7,7 08,0	7,1 6	4 50	4 3.6	9 50 4	3,8 50	4	3.8 50	4 3,8	50 4	3.8 50	4 3.8 C	0	0 0	0 0		
32	721-PA-001-C		OCC22 FPN8S	M	SFT	152,0 690	0 0.92 0.90	164.2	0.80 132.7	123.4 14	7,4 50	74 66.5	3 50 74	66.3 50	74 6	6.3 50	74 66.3	50 74	66.3 100	147 132,7 C	0	0 0	0 0		
92	721-PA-005-C		OC22 APNS	-	700	12.7 690.	0 0.09 0.09	13.5	0.80 11.5	20.9 2	00 00	9	8 50 3	2.0 50	0	2.0 50	3 2.0	50 3	2.0 50	13 10.0 C	0	0 0	0		
9	16 722-PA-031-C	Ī	OC22 FEMAL	20	70	630 630	0.00 0.09	60.03	0.00	61.1	20	15 131	25 15	13.6	50	3.6	31 272	31	27.2 50	31 27.2	0	0 100	71 60		
1	801-PA-001-C	BALLAST PUMP, SUBMERSBLE C	OCC2 FAMSS	2 :	8 8	940 69	0.094 0.87	900	080	2 1	0 0	0 0	0 0	000		0 0	000	0 0	0 00	000	0 0	0 0	0 0		
g	SALPA-101-B	Т	223 FANS	2 2	8 8	618 690	1 0 00 0 00	540	180 401	30.5	9 6.	200	0 0	200	0 6	20 0	2 20	0 0	2.0	2 20 0	0	0 0	0 0		
8	804-PG-003-C	ORAN TRANSFER PLUAP	OCC2 FR428		000	4.0 690	0.82 0.82	4.88	980 3.9	40		0 02	9 9	02 6	. 0	0.2	0 02	0	07	0 00 0	0	0 0	0 0		
21	000-PG-003-D		OC22 FAV2S	M.	000	4,0 690	3 0.02 0.02	4.93	080	4.0 4	9	0 0.2	0 2	0.2	0	0.2	0 02	0	0.2	0 000	0	0 0	0		
22	861-PA-001-D		OC22 FRM1;	22 M	DOL	1,75 690	0 0.84 0.80	2.2	1,7	1,7 4	1 10	0 0.2	2 10 0	0.2 10	0	0.2 10	0 02	10 01	0,2 10	0 0.2 C	0	0 100	2 2		
23	23 881-PA-032-D	Ť	OC22 FSMI;	22	700	1.75	0 0.04 0.00	2.2	1.7	1,7	100	0 0.5	2 10 0	02 10	0	0.2	0 07	10	0.2 10	0 0.2	0	0 100	20		
70	875-EN-P14	PAWEL BOARD FOR WATER TIGHT DOOR (REDUNDANCY)	OC22 M159	2	FOR	5.3	0.77 0.68	8.5	0.80 4.1	5,1	100	8	1000 6	4.1 100	10	4.1 100	6 4.1	100	4.1 100	6 41	o	0	0		
	875-EN-M22	875-EN-M22. Consumption of Panel board 22								l	ŀ			l											
	278-EU-002-B	IOCP POWER CONTROL UNT	PB22 N/A	M	FOR	10,5 690	1 0.97 0.95	9.6	0,50 6,4	4.8	7 100	6 5,4	100 6	6.4 100	9	6.4 100	6 5,4	100	5,4 100	6 5,4 0	0	0 0	0 0		
2	431-10-004-8	START CABRETTOR WINDLASS	PBZ2 N/A	M	FOR	13,3 690	0.00 0.00	32.0	0.80 16.8	25.5	0 9'1	0 00	3 60 18	10,1 0	0	0.0	0 0.0	0 0	0.0	0 000	0	0 0	0 0		
0	501-48-101		PBZ2 NA	M	FOR	35.0 690	0 0.90 0.85	38.3	0.80	30.6 3	0 91	0 00	0 0 0	0 00	0	0.0	0 0.0	0	0.0	0 00 0	0	0 0	0 0		
4	561-ET-001-B		PB22 N/A	2	FDR	60.0	0.05 0.88	90.1	080 605	48.0 6	100	9	10 6	97.0	10	971	6.5	10 6	6.1 10	3.5	0	0	0		
0	est formace	THRUSTER CLUBRICATION UNT	Hezz Annas	1	NON O	52 69	0 0.00 0.01	5.4	380 47	43	2 10	00 010	2000 000	4.7 100	0 0	47 100	0.0	100	010 100	00 010	0 0	0 0	0 0		
-	RNFCM3CB	THRISTER CHYDRALLIC BOWER P	SB/ON A/PVES	-	88	900	0.088	00.1	380 818	28.7	100	9 80	8 8	818	8 8	18 100	88	100	818	88 818		0 0	0 0		
8	831-14-001-48	Ī	OB22 N/A	M	FOR.	18.0 690	1 0.95 0.80	19.8	980 162	16.9 11	9 6,	1 0.8	1 9	0.8	-	0.8	1 0.8		0.8	1 0.8 0	0	0 100	23 18		
6	831-84-001-BA		PBZ2 N/A	M	FOR	18,0 690	082 0.80	18.8	0.80 15.2	15.9 1s	5 61	1 0.6	3 6 1	0.8		0.8 5	1 0.8		0.8	1 0.8 0	0	0 0	0 0		
10	005-ET-T0-4-CA		PRZZ A/PV4S	-	FDR	3.5 690	9 0.89 0.84	3.9	0.80 3.1	3.1 5	2	2 1.6	9 50 2	1.6 50	24	1.6	2 1.6	50 2	1.6 50	2 1.6 6	o	0	0 0		
11	11 867-EH001-CA	A THRUSTER VFD CWATER COCLING UNIT	PB22 APV4S	-	FOR	9.2 GX	0 0.90 0.89	9.6	0.80 8.2	7,7 8	2 100	8.5	2 100 9	82 100	os	8.2 100	82	100	8.2 100	9 8.2	0	0	0 0		
22	987-EH001-CB		PB22 A/P/4S	-	FOR	10.2	0.08 0.85	10.2	0.50 6.2	91	100	9	2 100 8	62 100	92	6.2 100	6 52	100	62 100	6 5.2	0	0	0 0		
		Total consumition of		ł		-			-		F	ŀ			-	F									
		MGC 22				1363		1 452	117	1174	493	333 363	454	494	457 3	94	467 457	491	497	502 435			20 104	_	
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10 Sequence centres 10 10 10 10 10 10 10 1	1.5 + OP 75%	K Low Speed Rafing
20-20H1/20 PE ALLO FAUR TO 4 LUISE CA LANZI'ON MOD23 MINST 20-20H1/4 ALLO CANGER FAURPOOK 4 EXPANDENT MOD23 MINST 20-20H1/4 ALLO CANGER FAURPOOK 5 EXPANDENT MOD23 MINST 20-20H1/4 ROLD CANGER	MA 1756 DE 100 MAY 1756 DE 100	_
Date Garrier MATO CONNECT FUNDERS OF SERVICION MATO TO ANGER TO ANGEST TO ANGEST TO ANGEST TO ANGEST TO ANGEST TO ANGES TO ANG	8 100 1 0.8 100 1 0.8 100 1 0.8 80	
325-EM119 MAJD CHANGE FUMPING 8 STRANDSY MIST MO233 MISS 332-EM100A BOP SYSTEM, IPOU WITH MAXING SYSTEM, PUMP 81 MISS MISS MISS STRANDSA BOY SYSTEM, IPOU WITH MAXING SYSTEM, PUMP 81 MISS MISS STRANDSA BOY SYSTEM, IPOU WITH MAXING SYSTEM, PUMP 81 MISS STRANDSA BOY SYSTEM, IPOU WITH MAXING SYSTEM, PUMP 81 MISS STRANDSA BOY SYSTEM, IPOU WITH MAXING SYSTEM, PUMP 81 MISS STRANDSA BOY SYSTEM, IPOU WITH MAXING SYSTEM, PUMP 81 MISS STRANDSA BOY SYSTEM, IPOU WITH MAXING SYSTEM, PUMP 81 MISS STRANDSA BOY SYSTEM, IPOU WITH MAXING SYSTEM, IPOU WITH MAX	080 081 081 081 080 0 0 0 0 0 0 0 0 0 0	
SECRETION DOT STREET TO WITH MANY STREET, FORT III	1 CAS TOWN 1 AND 1	
	10 4	
BOD SYSTEM, RUID RECOVERY SYSTEM, MOTOR 1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
24 SECTION FOR THE PARTY OF THE PARTY PART	80 COS CAT MAN CONTROL TO 121 CONTROL TO 1 C	
343-EM101E HYDRALLIC POWER UNIT (#PU); PUMP MOTOR 5	0.08 0.08 0.08 0.09 0.221 1984 0.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
28 SECRITOR HYDRALL COWRETUNITY OF UNITY MAY INCOME MICCOS MICKED TO CO. 166,0 600 0.0	0.05 0.07 0.07 0.07 0.07 0.07 0.07 0.07	
2.7 SALEMBAR PROPERTY ENGINEER HEAT ENCHANGE EAR TO THE TOTAL TOTA	10 000 000 000 000 000 000 000 000 000	
BRACKG RESISTOR COCLING PUMP A	0.00 0.00 0.00 10.00 0.03 0.00 0.00 0.00	
33 887-84924 DAWS 18 COCAND PUMP MOTORA. 15 693 0.8 10 10 10 10 10 10 10 10 10 10 10 10 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
DOTTE IN COLUMN TOTAL IN COLUMN IN		
Total consumition of		
MCCZ	1118 1002 1309 371 378 373 378 379 379 388 342 354	
JUNCTION BOX FOR ANJ BION (370-38-03-4) MCC24 MSS3 V 28FEED 49.0 590	10 00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	WW
MO224	0 0.05 0.14 0.05 0.4 0.4 0.5 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0.4 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
VENTILATION FAN (AND LAST MICE)	0 010 014 014 015 015 015 015 015 015 015 015 015 015	
	D 1.00 CAN 207.0 CAN 200.0 200.0 200.0 201.2 25 728 778 775 25 729 775 50 000 643,0 20 100 100 100 100 100 100 100 100 100	
Ĭ	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
10 570-CE-2-48A VENTILATION FAV (AXAAL) FOR NOTAL MODS MCC24 MRD 9R V 250-EED 4.5 6.00 0.0.0.	0. 031 0.01 0.01 0.00 44 41 4.0 100 5 44 000 5 44 000 5 44 000 5 44 000 5 44 000 5 44 00 0 0 0	1.20W
11 573-02-246 VENTIARIA PARA ANAL POR MASSA. 11 573-02-246 VENTIARIA PROPERTIES 2.8 600 0.1	10,70 000 34 000 20 27 33 100 31 20 100 31 20 100 31 20 100 31 20 100 31 20 100 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WAS D
Ť	10 CLT (124 1,58 1,58 1,58 1,59 1,59 1,59 1,59 1,59 1,59 1,59 1,59	U.SBKW
64 679-G2-G70 VENTLATICK PATALON MATERIAL MINISTRAL MATERIAL MATERIAL PATALON NATIONAL PROPERTY SERVICE 2.2 609 0.01	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	WHEN D
П	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.2KW
16 573-CE-2465 VENTILATION FAN (AXML) FOR MZOIA, MZOI, M1006, M166 MCC24 MCD4 M694 V 25PEED 17.6 690 0.05	0.031 0.031 0.035 0.030 0.05 0.05 0.05 0.05 0.05 0.	WX 5
THERMAL OIL HEATED VENTING FAN FOR CELLAR DECKIPAD MIDWOCAPOOL	0 077 046 046 046 030 03 024 044 100 0 03 100 0 03 100 0 03 100 0 03 100 0 03 100 0 0 03 100 0 0 0	
19 678-02-276 THERNAL QUI HATTON DETRINA PAY FOR CELLAR DECKPAYS STROMOCHPOOL, MICCAL GUISSON, Y DOL. 0,25 650 0.01	0.17	
HERMAN, OLLOWS, CONTROL PAREL VED COR CUD OR DAGING DOOR CENTER ADDRESS	10, 150 150 150 150 150 150 150 150 150 150	
State the state of	2	
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FENTILATION FAN (AUAL) FOR COLUMN & PONTOON (FWD/STB.D)	0 08 020 080 179 179 170 210 180 179 170 21 179 100 21 179 100 21 179 100 21 179 100 21 179 100 21 179 100 21 179 100 21 179 100 21 179 100 21 179 100 0 0 0 0 0 0 0 0 0	6.8KW
PENTILATION FAN (AXIAL) FOR M163, M2M	0 0.80 0.87 3.86 0.80 3.2 3.1 3.7 100 4 3.2 100 4 3.2 100 4 3.2 100 4 3.2 100 4 3.2 100 4 3.2 100 0 0 0 0 0	
29 5W-02E-1466 VENTILATION FAW (AXXM_J FOR MISS, M224 M32 OUT V DOL 4.4 6.90 0.6	0 0.88 0.84 0.80 0.80 4.3 4.2 5.1 (10) 5 4.3 100 5 4.3 100 5 4.3 100 5 4.3 100 5 4.3 100 5 4.3 100 5 4.3 100 5 4.3 100 5 10 0 0 0 0 0 0 0	
CAN FOR ELECTRIC HEATER STRIKE		
MCC 24 MCC 24	855 653 677 749 428 350 428 350 658 458 350 508 405 508 405 648 350 · · · 381 234	
HAVE STANDARD OF THE STANDARD		
2 011-0201- UTBENDAR THEN WAS THEN WELL WITH MADE AND AN AND AND AN AND AND AND AND AND A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3 001-EC-001-F MAIN ENGINE FLIRINING GEAR LMIT 2.5 600 0.	20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	
4 001-EC-002-E MANNENGENEEPRELLERECATION OLI PUMP MCG11 APPAMARTA M FOR 22.0 690 0.	8 Q8M QR2 240 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
5 001-EC-022F IMMUENZINEF PPELLURIOCATON OLI PLANP MICCOS APPAMENTA MI PDR 22.0 600 0,	0.44 0.02 Ato 100 0 0 0.0 23 0 0.0 23 0 0.0 23 0 0.0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0.005-0.001	0. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
	2 000 000 000 000 000 000 000 000 000 0	
9 TXI-PQ-005E FO CROALATION PLAPE M DOL	0.000 0.01 0.01 0.00 777 73 0.4 0.01 4 3.0 0.0 4 3.0 0.0 4 3.0 0.0 4 3.0 0.0 4 3.0 0.0 4 3.0 0.0 4 3.0 0.0 0 0 0.00 0 0	
	80 000 000 24 23 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
11 711-PG-022 CLEANLUS OL TRANSFER PLANP MD 25 630 0.8	0.056 0.056 0.050 0.24 0.23 0.28 0.0 0.00 0.00 0.00 0.00 0.00 0.00	
721-PA-0028 AFT IMMIN SEA COCUNS WATER PUMP	0.02 005 0542 0.05 1227 1244 1474 00 74 0613 00 74 0613 00 74 0613 00 74 0613 00 74 0613 00 74 0613 00 74 0613 00 74 0613 00 74 0613 00 74 0613 00 170 051 00 100 100 100 152	
M. 22.4***OLD 17***PERCOLLARS PURP M. 22.4***OLD 17*** COLLARS PURP M. 22.4*** COLLARS PURP M. 22.4	80 100 100 100 110 100 110 100 100 100 1	
IS 722-F-031-C LEPRENEATHEUNT MCC31 APMARTA M FDR 3,0 800 0.1	0.00 0.00 4.5 1.00 4.3 4.6 5.4 20 1 1 1 1 25 1 1 1 1 25 1 1 1 1 1 25 1 1 1 1	
19 722-F-020-C HT-FPREHEATING UNIT 109.9 600 0.0.	0 0,00 0,00 0,004 1,00 1445 1004 0272 25 25 25 25 25 25 25 25 25 25 25 25 25	
17 NH EC-001-A FRESH WATER GENERATOR (NH - 30C-001-A) MOGST APPARISM AN FOR 101.0 690 0.0.	10 COM 10 00 00 00 00 00 00 00 00 00 00 00 00	
	80 0.54 0.877 85.5 0.80 77.5 89.5 82.2 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
T	0.022 0.04 3.9 0.50 3.4 3.7 0 0.05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
9	10 C C C C C C C C C C C C C C C C C C C	
22 IM-PG-070C (PRANTHER PLUP) 23 IM-PG-070C (PRANTHER PLUP) 24 IM-PG-070C (PRANTHER PLUP) 25 IM-PG-070C (PRANTHER PLUP) 26 IM-PG-070C (PRANTHER PLUP) 27 IM-PG-070C (PRANTHER PLUP) 28 IM-PG-070C (PRANTHER PLUP) 29 IM-PG-070C (PRANTHER PLUP) 20 IM-		
EMJUSION SEPERATOR	1 (10) (10) (10) (10) (10) (10) (10) (10	
	0 0.00 0.07 40.00 0.00 3.22,7 3.20 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
WATER MIST PUMP & VALVE UNIT	1,00 0.05 5,4 1,00 6,5 6,4 6,5 6,0 1 0,0 10 1 0,0 10 1 0,0 10 1 0,0 10 1 0,0 10 1 0,0 10 1 0,0 10 1 0,0 10 0 0 100 0 0	
11KV GENERATOR-F DE LIO PUMP	0 0.08 0.08 2.2 0.80 1,7 1,7 2,1 10 0 0 12 10 0 0.2 10 0 0,2 10 0 0.2 10 0 0.2 10 0 0 0.2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	D 0.084 0.09 2.2 0.80 1,7 1,7 2,1 10 0 0.2 10 0 0.2 10 0 0.2 10 0 0.2 10 0 0.2 2 0 0 0.2 10 0 0.2 2 2	
	0 0,00 0,00 0,00 45 0,00 3.6 4.3 00 2 1.8 00 2 1.8 00 2 1.8 00 2 1.8 00 2 1.8 0 0 0 0 0	
	8 1,000 100 110 110 110 110 110 110 110 1	
807-EH-001-COB THRUSTER VED D PRECHARGING AND MISC. LY LOADS	0.008 0.008 0.02 0.50 0.52 0.51 0.51 0.00 0.6 0.52 0.00 0.6 0.52 0.00 0.6 0.52 0.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	
32 875-ENP13 PAWEL BOARD FOR WATER TIGHT DOOR 7.3 630 0.6	0 081 0.72 315 0.80 6.4 6.3 7.5 100 8 6.4 100 8 6.4 100 8 6.4 100 8 6.4 100 8 6.4 100 8 6.4 100 8 6.4 100 8 0 0 0 0 0 0 0 0	
Total consumplifying		
1881	.	
MARINE SBYAC MCD 12. 873-26WATI 9		
1 204-6M113 TPUMSFER PUMP NO.1 BRINE DUTY 80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 0.00 100.0 0.00 100.0 100.1 100.1 0 0 0 0	
2 \$FR4-26-07* POWER-JEF FOR ROY LMET	0. 0.00 0.00 207.2 0.00 100.4 100.0 100.4 100.0 10 0.0 0.0 20 20 20 0.0 42.1 20 0.0 42.1 20 0.0 42.1 20 0.0 42.1 20 0.0 42.1 20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
HPHOT WATER WASH DOWN PURP UNIT	2 GB 0 GB 0 GB 0 GF A 093 793 99 8 67 10 8 67 10 8 67 10 8 67 10 8 67 10 8 67 10 8 67 10 8 67 10 0 0 0 0	
F.O., CRCALATION PUMPF APPRINTS	8.6 b 00 8.6 b	
ATER PUMP M SPT 152.0 690	_	
THRUSTER SEA WATER COOLING PLAYP 12,7 630	0.089 0.089 13.5 10.80 13.5 10.8 12.2 9.9 10 5.8 5.0 10 5.8 5.0 10 5.8 5.0 10 10 10 10 10 10 10 10 10 10 10 10 10	_
FRESH WATER COOLING PUMP MODE 690 690	0 0.00 0.00 0.42 0.00 0.47 0.04 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.	
FDR 151.0 690	0. 0.08 0.08 0.073 0.09 0.173 1343 9506 00 80 666 00 80 966 00 80 666 00 80 666 00 90 666 00 90 666 00 90 660 00 90 60 0 0 0	
9 001-04-001-6 (MALASTPUMP, SUBMERSHELE) MICCOZ (MPOZP MICCO, 1942) 1941 194	0.00 0.00 0.00 0.00 71.5 00.0 0.00 0.00 0.00 0.00 0.00 0.00 0	_

	Odğeli G F Project NO: 3025		ŀ	ŀ	j			ŀ	ŀ			İ	ŀ				I						
				S ER.	STARTER	٥	CONNECTED LO				1RANSIT + CP 75%		+ T-50%	* DP 80%	+097(ELL CIRCIN AFTE		_	MERGENCY MODE	REMARK	Reference Low Spe Rafing
		BILGE PUMP, P CHTCON	-		700	12.7 6	190 0.00	0.90 13.4 0.80	11.5	10,7 12,8	0 0	0.0 0	0.0	0 0	0 0 0	0 00	0 0.0	0 0	0.0	0 0	0 0	0	
	11 804-PG-002-A	DRAN TRANSEER PLANP	MOC32 NA		700	1,5 6	190 0.80	0.79 1.98 0.8	1,5	1,6 1,9	0 0	0.1 5	0.0	0	0.1 5 0	0.1	0 0.1	0 0	0.1	0 0	0 0	0	
The control of the co	13 813-PA-002	FREJOCKEYPUNP		П	700	42.8 6.	190 0.91	0.91 42.7 0.81	37.3	34,1 40,8	50 20	18.6 50	20 18.6	20 11	9,6 50 20	18,8 50	20 18.6 6	90 20	18.6	0 0	47 4	3	
	14 881-PA-001-E		ş	AND M	700	1.75	600 0.84	0.80 2.2 0.8.	1.7	1,7 2,1	10 0	0.2 10	0 02	0 0	0.2 10 0	0.2 10	0 0.2	0 01	0.2	0	0	0	
The control of the co	16 875-EN-P11	PANEL BOARD FOR WATER TIGHT DOOR (REDUNDANCY)	VOC32 M101	M M	FOR	9 09	730 0.77	0.68 9.6 0.60	47	5.8 6.9	100	47 100	7 4.7 10	2 2	47 100 7	4.7 100	7 47 10	2 0	47 0	0 0	0 0	0	
The control of the co																							
	875-EN-M32, C	onsumption of Panel board 32	1000	:	0.00	9 00	000	0.00	***	4.0	9	000	0.00	9	0 000	6.4 100	20 00 00	9	0	0			
	2 491-IC-004-C	START CABRETTOR WINCLASS	APBS2 NA	2	FOR .	13,3	06.	0.55 32.0 0.81	16,8	25.6 30.8	0	0.0 60	10,1	0	20 0	0 00	0 0 0	0	0.0	0	0 0	0	
	3 635-EC-001-F	THRUSTER FLUBRICATION UNIT	WPB32 API:	T do	FDR	6.2 6	190 0.88	0.91 5.4 0.8	4.7	4.3 5.2	100	4.7 100	5 4,7 1,	9 0.	4.7 100 5	4.7 100	6 47 10	9 00	4.7 0	0 0	0 0	0	
	4 635-EC-002-FA		MPB22 API:		ROR B	9 000	390 0.88	0.03 92.1 0.8	818	73,7 89,1	100 88	81.8 100	88 818 1	88 8	1,8 100 88	81.8 100	88 81.8 10	98 00	81.8	0 0	0 0	0	
Company control cont	6 500-5C002+8		APREZ APR	nasn M	HDR.	250 6	680 06.	0.99 21.3 1.01	28.3	213 255	100	12.6 50	12 12 12 13	2 2	2.6 50 13	12 8 50	13 12.6 10	30 as	28.3	0 0	0 0	0 0	
	7 831-84001-CA	HPPMOTOR FOR REMOTE CONTROL VALVE	UPBIZZ MIME	M	FDR	18.0 6	190 0.95	0.00 19.8 0.81	16.2	15.9 18.9	1 2	0.8 5	1 0.8	1 0	0.8 5 1	0.8 5	1 0.8		0.8	0 0	23 1	0	
	8 831-H-001-DB	田口	WPB22 M16	M	FOR	18.0 6	330 0.95	0.80 19.8 0.8-	16.2	15.9 18.9	0	0.8	1 0.8		0.8 5 1	0.8 5	1 0.8	40	0.8	0	0	0	
The control of the co	9 905-ET-T04-FA		MPSE APP.	- L	RDR	3.55	000 000	0.84 3.9 0.8	3.1	3.7	2 2	1.6 50	2 1.8	2 0	1.6 50 2	1,8 50	2 1.6	2 0	1.6	0 0	0 0	0	
Column C	10 807-EH-001-FR	8	APRO APRO		ADR.	10.2	200 0.00	0.85 9.5 0.5	62	61 61	100	6.2 100	62 1		32 100 g	62 100	9 82 tc	9 0	62 0	0 0	0 0	0 0	
		3					-	400													,		
The control of the co		Total consumplies of																					
		WC032			1	1 609		1 673	1397		435			_		40	489 447	336	484	0			
	MULING, SPOVAC MCC 33, 8	D-SWAIS																					
	Н	DKVA MAN SUPPLY			FDR	40,0KVA 8.		33.5	Н	28.2 33.7	80 27		27 21.8 1	0 27 2	1,6 80 27			27	21.6 0	0 0	0 0	0	
	2 311-ER0028	JPPLY	-		FDR	40,0KVA 6		33.6	Н	282 33.7	0 0		0,0	0 0	0 0 0			27	21,6 0	0 0	0 0	0	
The control of the co	3 312-EM252A	AHD DZ DRAWWORKS MW BLOWERWOTORM	MOC33 NA	٥	700	63.0 6	190 0.93	0.87 65.2 0.8.	54.2	52.1 62.3	0 0	0.0 30	19 16.3	1 65 0	6.3 30 19	16.3 50	31 27.1	0 0	0.0	0	0	0	
	4 312-EM253A	AHD D2 DRAWWORKS MW HPUMOTORM	MOC33 NA	٥	200	40 6	390 0.89	0.85 4.4 0.7	3.1	3.1 3.7	0 1	0.0 100	4 3,1 1	90	3.1 100 4	3,1 100	3.1	0 0	000	0 0	0 1	0	
	5 313-EM603	TOP DRIVE BLOWER MOTOR A	ACCES NA	0	200	2.8 6	980 08.	0.05 2.9 0.00	2.4	2.3 2.8	0 0	00 00	2 1.7	2 2	17 70 2	1.7 7.0	2 4.3	0 0	0 0 0	0	0 0	0	
Description: See the control of the	7 313-EM105	TOP DRIVE COCLING FAN MOTOR	WAX WA	0	700	0.8 6.	190 0.79	0.80 1.0 0.80	0.8	0.8 1.0	0	0.0 7.0	1 0.5		25 70 1	0.5 7.0	1 0.5	0 0	0 0 0	0	0 0	0	
	8 313-EM106	TOP DRIVE SUMP MOTOR	VOC33 N/A	0	700	2.5 6	190 0.88	0.87 2.8 0.8.	2.3	2.2 2.7	0 0	0.0 70	2 1.6	2	1,6 70 2	1.6 70	2 1.6	0 0	0.0	0 0	0 0	0	
Continue c	Т	MANABOER WINCH PAW-150 #1	MOC33 M901	٥	FDR	6.0 6	190 0.95	0.97 5.4 0.0.	3.8	3,3 3,9	0 0	0.0	0 0.2	0 9	0.2 6 0	0.2 6	0 0.2	0 0	0 0 0	0 0	0 0	0	
The continue of the continue o	Т	MANAGOER WINCH PARW-150 AS	MOC33 M21.	0 0	BR S	9 09	380 0.95	0.07 5.4 0.6	3.8	3.3	0 0	000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5	02 6 0	0 00	0 075	0 1	000	0 0	0 0	0	
CONTINUES CONTIN		MUD TRANSFER PURP NO.2 - WINDOWN	MOCE MISS	0	200	670	980 08.	0.00 00.0	603	7.17	0 0	00 20	127	2 22	27 20 15	12.7 20	12.7	0	0 0 0	0 0	0		
		AGITATOR RESERVE/SIRINE TAVIK NOS	WOC33 N/A	0	DOC	15.0 8	190 0.93	0.82 16.5 0.80	13.0	13.2 15.8	0 0	0.0 50	8 6.5	9 0	6,5 50 8	6,5 50	8 6.5	A A	3.2 0	0 0	0 0	0	
	M 32M-EM122	AGITATOR RESERVEISIBLE TAMK NO.4	WOC33 NA	q	000	13.2 6	190 0.03	0.82 14.5 0.8.	11,4	11.6 13.9	0	0.0 50	7 5.7	7	5,7 50 7,	5,7 50	7 6.7	9	2.9 0	0 0	0	0	
	16 324-EM123	AGITATOR PESER VERBRINE TANK NO.3	MOC33 NA	a	700	16.0	330 0.93	0.82 16.5 0.8	13.0	13.2 15.8	0	0.0	80	8	8.5 50 8	6.5 50	80	4	3.2	0	0	0	
	16 32N-EM24	AGITATOR RESERVEDBANE TAVK NO.2	MOC33 NA	0 0	700	3.55	390 0.93	0.62 14.88 0.8	11.7	11.9	0 0	000 80	2 00	8 9	2 20 20	09 89	2 2	4 .	2.9	0 0	0 0	0	
Control to the cont		AGITATOR WINN ACTIVE SUCTION TANK	WACCOO WA	0	200	13.5	180 0'83	0.02 14.88 0.05	11.7	11.9 14.2	0	0.0	7 5.8		7.8 50	5,8 50	7 5.0	4	29 0	0	0	0	
Control Cont		AGITATOR WIBM ACTIVE MIXTANK	MOC33 NA	0	700	13.5 6	190 0.80	0.02 14.88 0.00.	11.7	11.9 14.2	0 0	0.0 50	7 5.8	7 07	5.8 50 7	5.8 50	7 5.8 2	22	2.9 0	0 0	0 0	0	
The control of the co		AGITATOR WEM SLUG TANK	MOC33 NA	0	200	0.8	0.36	0.82 0.9 0.8	0.7	0.7 0.8	0	00 20	0 03	0	03 80	03 20	0 03	0	0.2	0	0	0	
Control Cont	1	MASHING MACHINE POWN MISSIPELINGS	AOCH MIS	-	200	200	000	143 0.0	64.3	200	0 0	00 36	000	0 0	20 00	20 20	000	2 0	6.7	0 0			
The control of the co		HPMUD PUMP NO. 2, FAN B	WOC33 M161	0	000	13,0 6	190 0.92	0,83 142 0,90	11,3	11,4 13,6	0 0	0.0 25	3 2.8	9	2.8 25 3	2.8 2.6	3 2,8	2 06	6.7	0 0	0 0	0	
Control Mineral Mine	24 325-EM104B	HP MUD PUMP NO. 2, UNER SPRAY PUMP MOTOR	MOC33 M16	٥	700	2,3 6	190 0.83	0.82 2.8 0.0.	1.6	1,7 2,0	0 0	0.0 70	1 1,1 1	2 2	1,6 100 2	1,6 100	2 1,6 6	1 06	0.8	0 0	0 0	0	
CONTRICTACIONAL METATORY (CONTRICTACIONAL ME	365-EM1036	THE MALE COMP NO. 2, LUBBLE OLI MOTOR	MOCES MIS		3 8	2 000	000	0.00 1.0 0.00	000	44.3	0 0	00 00	000	,	000 00	000 000	000		0 0	0 0	0 0	0	
Supplication of the control of the c	325-EM116	MUD CHARGE PUMPING 8 STANDSY	WOC33 M161	٥	200	52.0	.00	0.83 56.4 0.85	43.9	44.3 52.9	0	0.0	00	0	20 0	0 00	0 00	10	15.4	0	0 0	0	
	328-EM107A	VACUUM DE CASSER NO 1 (MOTOR A)	WOC33 FPM.	1318 0	DOL	18.5 6	190 0.93	0.82 20.4 0.8.	16.0	16.3 19.5	0 0	0.0 50	10 8.0	. 01 0.	8.0 50 10	8.0 50	10 8.0	10	0 0	0 0	0 0	0	
THE PROPERTY NAME TO THE PROPE	326-EM1078	WACULM DEGASSER NO 1 (MOTOR B)	MOC33 FPN	0 818	700	4.0 6	190 0.85	0.80 5.0 0.8	3.8	4.0 4.7	0	0.0 50	2 1.9	20	1,9 60 2	1.9 50	2 1,9 6	2	1,9 0	0	0	0	
THE PRESENCE FOLLOW-RECORD STATES AND STATES	30 326-EM103	DESL'ER PUMP	MOC33 APP.	4318 D	700	9 000	390 0.94	0.86 69.1 0.8	888	223	0 0	000 20	33 384	8 .	33	28.4 50	33 284	0 0	000	0 0	0 0	0	
	20 300-EM109	GINBELSENOT-FURBE OPTON	ACCES MOTO	0	FDR	30.0	080	100 TH 000	22.9	26.4 31.6	0 0	00 20	100	2 20 00	10 00 10	200 200	1000	0 0	0 0 0	0	0 0	0	
The part of the	30 326-EM111	OLIVIREUGEFEED FUMP NO.1-RUTURE OPTION	WOC33 MOTE	0	700	7.5 6	190 0.80	10 00 200	6.5	6.6 7.9	0	00 00	4 32	9	32 80 4	32 50	4 32	0	000	0	0		
	34 328-EM113	CUTTNS SCIEW CONVEYOR NO.1	WOC33 M31	٥	000	22.5 6	190 0.93	0.82 248 0.8	19.4	19.8 23.7	0 0	0.0 50	12 9.7	12	9,7 50 12	9.7 50	12 9.7	0	0.0	0	0	0	
Control Cont	35 328-EM115	QUITING SCREW CONVEYOR NO.3	MOC33 N/A	a	700	7.5 6	330 0.03	0.62 8.3 0.8	8.5	6.6 7.9	0	0.0 50	3.2	4	32 50 4	32 50	4 3.2	0	0.0	0	0	0	
	36 328-EM001	257AR FOR CENTREUGE FEED PUMP NO.2 - RUTURE OPTION	MOC33 NA	٥	NO.	26.0KVA 6	390 1,00	1,00 20,9 0,8	20.0	16.7 20.0	0 0	0.0 50	000 000	00 00	0.0 50 10	10,0 50	10 10.0	0 0	000	0 0	0 0	0	
Secretary 1. Secre	38 874-JB-015	POWER JE FOR COLED TUENGUNT	WOC33 MRSS	0	FOR	10.0	960 06.	0.00 10.4 0.80	8.4	83 9.9	0	00 00	4 42	,	42 50 5	42 30	5 42 6	9	42 0	0	0	0	
SINGLE CONTINUE CONTI	39 381-0201	INUCLEB COMCRAWENG 2	WACC33 N/A	0	FDR	30,0 6	190 0.95	0.85 31,1 0,70	22,1	21.8 26.0	0 0	0.0 50	13 11,1	13 1	1,1 60 13	11,1 60	13 11.1	0 0	0.0	0 0	0 0	0	
Continue C	40 371-EM-001	GEMENTING UNT HPU MOTOR	WOC33 M31	٥	FOR	6 0,001	280 0'85	0.90 162.6 0.8-	138.9	130,1 165,4	0 0	0.0	0.0	0 0	0 0 0	0 0'0	0 0'0	0 0	0 00	0 0	0 0	0	
Control Cont	41 371-EM002	CEMERTING UNIT CAS MOTOR	MOC33 M31:	0 0	FOR	30,0 6	390 0.02	0.85 32.1 0.8	29.1	26.7 30.7	0 0	0.0	00 0	0	0 0 0	0 00	000	0 0	0 00	0 0	36 3	0	
Comparison Com	A SECTION	CONTROL INC. VICTOR CO. LINCOLD CO.	ACCES MET		200	900	000	0.00	3.0	20 43		00 00	000		36 500	3 6 400	4 20 40		36	0 0		9 0	
Comparison Com	44 967-EN-S03-A		WOC33 APPR	4221A D	00	7.5 6.	90 0'9	0.96 8.5 0.81	2,0	6.8 8.1	0	0.0 50	4 3,5	4	3.5 50 4	3,5 50	4 3.5 6	4	3.6 0	0	0	0	
PARTICIPATION CONTINUENT CONTINUE	45 807-EN-SOA-8	DS WB 2B COCLING PUMP MOTOR B	WOC33 APS	C218 D	700	7.5 6	190 0.00	0.86 8.5 0.8-	7.0	6.8 8.1	0 0	0.0 50	4 3.5	. 4	3.5 50 4	3.5 50	4 3.5	90 4	3.5 0	0 0	0 0	0	
	46 455-EX-001	POWER SUPPLY FOR FORKLET	MOCES AVSI	4325 D	ROR	20.0	190 0.95	0.95 10.5 0.9.	16.8	14.8 17.7	0 0	0.0	0.0	0 0	0.0 0 0.0	0 00	0 0'0	0 0	0.0	0 0	0 0	0	
Company comp	48 300-EA201	DRAN SYSTEM RUSH PUMPMOTOR	MOC33 NA	a	200	3.5 6	390 0.82	0.91 3.9 0.8	3.4	3.7	0	0.0 50	1,7	2	1,7 50 2	1,7 50	2 1,7		0.0	0	0	0	
Coloration Col		Total cores umplifors of					L		L	L								L					
Particular Par		MCC33				1 065	1	1 097	911	_	22	22			1	358	╛	╛	171	0	50 4		
	RINE 685VAC MCC 34, 47	200000																					
State Stat	1 570-CA-138A	JUNCTION BOX FOR AHU BION GENB-DISS	70C34 M226	>	28PEE 0	48.0	0610 06.	0.88 48.6 0.80	40.9	38.9 48.5	100	40.9 100	48 40.9 11	10 46	3.9 100 46	40.9 10.0	48 40.9 10	10 46	40.9	0	0	0	JICW.
PRINCE PROPERTY CONTRIBUTION CO	3 570-02-1388	VENTLATION FAN (AUAL) FOR COLLINN & PONTOON (AFTRPORT)	VOC34 MSSE	>	28PEED	17.8 6.	190 0'80	0.81 20.2 0.81	15.8	16.2 19.3	100	15,6 100	19 15.8 11	10 10	5,6 100 19	15,8 100	19 15.6 10	13	16.8	0	0 0	0	5.26W
STATE STAT	6 575-30 2550	VENTILATION FAN (CENTREUGAL) FOR MB18	WOC34 N/A	>	700	14,0 6	190 0.90	0.91 14.3 0.8.	12.5	11,4 13,7	100	12,6 100	14 12,5 1.	1, 14	2,5 100 14	12,5 100	14 12.6 10	14	12.6 0	0 0	0 0	0	
TO STATE STA	7 575-30-265E	VENTILATION FAN (CENTREUGAL) FOR M318	MOC34 NA	7	200	14.0	390 0.90	0.91 14.3 0.8	12.5	11.4 13.7	2 2	6.2 50	7 62	2	6.2 80 7	62 60	7 6.2	2 2	62 0	0 0	0 1	0	
STATE STAT	9 575-CE-258B	VENTLATION FAX (AMAL) FOR MAIN	ACCIA NA	- >	200	5.8	06.	0.00	200	52 62	100	25 100	000		35 300 6	55 100	0 00 00		0 0	0 0	0		
Comparison Com	10 S75-OE-255C	VENTILATION FAX (AXIAL) FOR REST ROOM	VOC34 NA	>	200	0,4 6	00.00	0.82 0.58 0.81	0.5	0.5	100	0.5 100	1 0.5 1	1	0.5 100	0.05 100	1 0.5 10	1 00	0.5	0	0	0	
PRODUCTION CONTROL CON		VENTILATION FAN (CENTRE USAL) FOR M334	2	ı	2SPEE D	1,1 8	130 0.71	0.94 1.38 0.84	1,2	1,1 1,3	100	1,2 100	1 12 1	1 0	1,2 100 1	1.2 100	1 1,2 10	1 00	1,2 0	0 0	0 0	0	0.25KW
	578-Œ-141A	VENTILATION FAN (AVIAL) FOR MISSS	WOC34 APR	PPER V	2SPEE D	7.5 6	190 0.87	0.88 82 0.8.	6.9	6.5 7.8	100 8	6.9 100	8 6.9 1.	. 8	6.9 100 8	6,9 10.0	8 6.9 10	90 8	6.9 0	0 0	0 0	0	2.1KW
Particular Particular Parti	578-CE-250A	VENTLATION FAN (AXXAL) FOR NZZ 1A, M146,	ž	Ī	2SPEED	3.6 6	190 0.78	0.87 4.5 0.8.	3.7	3.6 4.3	100	3,7 100	4 3.7 1	10	3.7 100 4	3.7 100	4 3.7 10	4	3.7 0	0 0	0 4	4	O SHOW
NOTE NOTE	14 S78-GE-280A	VENTILATION FAN (AXXAL) FOR M334, M354	MOC34 M33-	> :	2SPEED	22 6	390 0.82	0.78 2.9 0.8	2.2	2.3 2.8	100	2,2 100	3 22 1	8	22 100 3	22 100	3 22 to	8 3	22 0	0 0	0 1	0	0.45KW
THE PROPERTY OF THE PROPERTY O	10 000-CE-2009	EN ILIANICA PAR (AUAL) POR RISTA	MOCH MIT		3 8	2 600	0.00	0.00 0.00	60	0.4	0 0	0.3 100	0.00	,	3.3 400 0	000 000	0 0 0		0.0	0 0	0 0	0	
90 To 100	20 CO CO 1811	STATE OF CALL CALL CONTROL OF CALL CALL CALL CALL CALL CALL CALL CAL	1000 a 1000	- 3	8	0.00	000	0.00	200	200	0 0	000	000		10 100	000 000	200		0 0	0 0			
MCCC34 MM05 V DCL 0.6 600 0.74 0.79 0.86 0.0 0.7 0.8 100 1 0.6 10.6 1	18 578-QE-2818	ENTLATION FAN (ANAL) FOR MISS	WOC34 MX35	>	000	0.3 6.	99 0 06,	0.74 0.52 0.80	0.4	0.4 0.5	100	0.4 100	0 0 11	0 0	2.4 100 0	0.4 100	0 0.4 10	0 00	0.4	0	0	0	
THE PROPERTY OF THE PARTY OF TH	19 578-CE-264A	ENTLATION FAN (ADAL) FOR MIGS	WOC34 MBDE	>	700	0,6	190 0.74	0.79 0.86 0.80	0.6	0.7 0.8	100	0.6 100	1 0,0 1	-	1 000 1	0.01 0.0	1 0.6 10	, ,	0 90	0	0		_

Odijeli G. F. Project NO: 3025

	Reference Low Speed Rafing							ADE 9		ADI C																																																										!	
	жимши																																																																				
Column C	Y MODE	0	0	0	0	0 0	230	0 0	0 0	0 0	0			0 0	0	0	0 0	0 0	0	6 0	0	0	0 0	0 0	0	0 0	0 0	400	0	0	0 0	13	0 0	0 0			11		0	0	0 0	0	0 0	8	0 0	0	0	0 0	2	0		0 0	0 0	0 0	23	0	92 0	0	0 0	0			0	0	0	2 0	0	0	
Column C	EMERGENC	0	0 0		0	0 0	22	0 0	0	0 0	. 0	27.5		0	0		0	0 0	0	00 00	0	0	0 0	0	0	0 0	0	93	0	0	0 0	11	0	0 0		663.7			0	0	0 0	0	0	2	0 0	0	0	0 8	8	0		0 0	0	0 0	20	0	8 0	0	0 0		123			0	0	0 0	0	0	
Column C	-	0	0 0	0	0 1	0	0	0 0	0	0 0	0			0	0 1	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0	0 1	0	0	0 0	0 1	0	0 0	Ħ				0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	H	0 0	0	0 0	0	0	0 0	0	0 0	0	-	Ė	0	0	0	0 0	0	0	
Column C	M SHE P	0	0 0	0	0	0	0	0 0	0	0 0	0			0	0 1	0	0	0 0	0	0 0	0	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0	0 0	1			Ī	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	T	0 0	0	0 0	0	0	0 0	0	0 0			Ī	0	0	0	3 0	0	0	
Continue Continue		0.3	0.3 0	87,2 0	11.6 0	0.50	38.9	25.6	3.2 0	3.2 0	0.0	471		0.0	0.0	0.0	0.0	91.8	81.8 0	3.8 0	5.8 0	27.3 0	1,1 0	0.0 0	0.0	0.0	0.0 0	0.0	0,2 0	0.2 0	1,8	8.6 0	8.2 0	41 0		23.0			0.0	0.0	30 0	32.7 0	5.8 0	27.3 0	0000	0.0	0.0	0.0	0.2 0	4.7		0.0	4.7 0	81.8	2.0 0	25,3 0	0.8 0	1.6	8.2 0	3.2	461		21,6 0	31,6 0	0.0	0.0	0.0	0.0	
Continue Continue	RCN AFTE	0	0 0	215	14		17.4	10	4	4 0	0	55.8		0	0 1	0	0	- 88	88	4 1	9			0	0	0	0	0	0	0	2 0	11	8	9 4	H	6143		-	0	0	0 4	1 72	9	31	08 0	0	0	0 0	0	-	H	9 0	9	00 0 00 0	5	26			es e	0	810		27	37	0	. 0	0	0	
Column C	WELLG	9 00	3 100	2 80	8	2 100	60	200	2 100	2 100	0	,		0 0	0 0	- 12	8	9 9	001	8 60	00	8	R 8	8 0	0	0 0	0 0	0 0	2 10	2 10	8 8	6 100	2 100	2 100			11	ļ	0	0	0 8	3 100	8 50	8	900	0 0	0	0 0	10	9		0 0	7 100	000	01	001	0 0	08	2 100	7			08	6 100	0	0 0	0	0	
Continue Continue	FAW1G 75%	0 0	0 0	16 187,	11,		74 138	00 00	4 3,	4 0	0	58 47:		0 0	0 1	0 0	0	88 81.	88 81,	3 3	5 5	31 27.	1 00	43 42,	0	5 0	0 0	0	0	0 1	2 00	11 8	9 8	9 9					0	8	0 0	74 66	6 5.	31 27.	80 0	0 0	0	0 0	0	7		9 0	5	85 S	1	13		2 4	ed 4	d o	88		0 0	37 31,	31 27,	5 0	2 1,	21 17	
Column C	8 X 8	100	100	50 2	26	100	100	000	100	100	0	•		0	0 1	25	26	100	10.0	09	200	20	20 0	90	0	0 0	0	0	10	10	200	100	100	100		- 4		ŀ	0	10	0 9	09	20	20	000	0	9	0 0	10	100		000	100	100	2 10	90	o so	20	100	100	-	-	0	100	90	0 0	7.0	20	
	2 %	0.3	0.0	187.2	11.5	0.0	139.9	0 9 9	3.2	32	0.0	473		0.0	0.0	0.0	00	818	81.8	3.8	5,8	27.3	1.1	42.8	00	0.0	0.0	0'0	0.2	0.5	18	9.6	8.2	5.2		449.4		ĺ	0.0	5.8	00	663	8.8	27.3	989	0.0	0.1	00	0.2	4.7		0,0	29	80 0	1,0	12.6	80	1.0	80 0	0	387		0.0	31.6	16.3	0.0	17	17.7	
Control cont	+ DP74	٥	0 0	216	14		17.4	1 01	9 4	4 6	0	558		0 0	0 1		0	88	88	4 ;	9	31		48	0	0 0	0	0	0	0	8 8	11	6 0	9 4		488.7			0	9	0 4	7.4	9 0	31	90	0	0	0 0	0	~		9 0	9	0000		13		2	0 0	0	433		0	37	19	, ,	2	21	
Control of the part of the p		0.3 10	0.3 10	187,2 8	11.6	0.5 10	138.9 10	16.6 10	3,2 10	3.2 10	0.0	47.1		0.0	0.8	0.0	00	81.8	81,8 10	3.8	5.8	13.7	2000	42.8 5	0.0	100	0.0	0.0	0.2	0.2	8,18	9.6 10	8.2 10	41 10		47.4	H		0.0	5.8	000	66.3 6	5.8 59	13.7	8 00	0.0	0.1	000	0.2	47		0.0	4.7 10	81.8	1,0	12.6 9	80	1.6	82 0	97	373		0.0	31,6 10	16.3	00	17	17.7	
Control Cont	* DE SO.	0	0 0	215	2 .		174	95	4	4 0	0	558		0		0	0	- 8	88	4 5		92	. 8	48	0	0	0	0	0	0	8 8	11	6	0 0	Ħ	247	H	ŀ	0	10	0 4	72	9	52	8 0	0	0	0 0	0	r-		9 0	9	88 8		13		CN.	o 0	0	\$	-	0	37	10	0 0	2	21	
Control Cont	¥ .	0.3 100	0.0 100	37.2 50	11.5 25	001 001	100	99 100	32 100	32 100	0 00	673		0 0 0	0.8 25	0.0	0.0 25	0.7 100	31.8 100	3.8	5.8	13.7 28	11 2	22.8 50	0 0 0	0 0	0 0 0	0 00	0.2 10	02 10	18 80	9.6 100	82 100	62 100		7.4		Ī	0.0	5.8 10	000	36.3 50	5.8 50	22	00 00	0 0 0	0.1 6	00 00	0.2 10	4.7		5,4 100	4.7 100	919	10 6	12.6 50	0.80	1.0	82 100	20.	383		0 0 0	0.0 100	90	0 00	1.7 70	17.7	
Control Cont	15 + T 15 + T 16	0	0 0	216 1	3.	-	174	- 00	4	4 0	0	558		0		0	0	- 8	88	4 5		10	- 8	48	0	0 0	0	0	0	0 1	8 10	11	8	10 E	\parallel	_			0	10	0 4	1 22	9	22	8 0	0	0	0 0	0			9 9	10	88 8		13		- 2	0 0	0	432		0	0	10	0 0	2	21	
	MOORN	001	000	2 80	2 2 2 2	0001	000	000 000	100	000	0			0 0	3 26	22 22	25	000 000	100	9 00	9 20	28	20 20	9 80	0	0 0	0	0	10	01 10	00 00	2 100	100	000			11		0	10	0 0	9 80	3 20	22	00 0	0	9	0 0	10	000		000	001 2	000	2 2	9 80	0 10	200	000	000		100	0	0	30		02.0	20	
	NST.	0	0 0	15 187.	14 110		74 138.	10 10	4 3.	4 0	0	18 479		0 0.	0 0	9 8	0	98 81.1	88 81,1	33	9	15	1 20	48 42	0	5 0	0 0.	0 0.	0.0	0	2 00	11 9.	9 8:	80 E		7. 437.4			0	0	0 4	74 66.	6 5.1	15 13	80 68	0 0	0	0 0	0	4		9 0	5 4.	80 0	1	13 12		2 10	8 4	ď	245	-	0	0 0.	0	3 8	0	d	
A Company Co	A20.	100	100	80	58	100	100	8 8	100	8 18	0	*		0	82	8 8	8	8 8	100	8 8	8	R	RI R	80	0	0 0	0	0	10	10	8 8	100	100	90 100		9.0			0	0	0 8	8 8	93	8	8 0	0	9	0 9	01	9		0 0	100	8 8	200	80	o e	8	100		*	1	0	0	0	0 0	0	0	
Column C		0.4	0.4	430,3	64.0	0.0	173.7	0.00	3,7	3,7	39,4	820		36.1	4.7	0.0	00	0.0	1,88	8,4	12.9	61.4	5.4	96.2	82.2	8.2	4.7	382.4	2,1	2.1	4.3	11.3	9.2	6.1		1389.4	Ш	ľ	23.0	613	158.6	147,4	12.9	61.4	160.6	12.8	1.9	382.4	2.1	8		30.6	5,2	8 8	21.3	25.5	183	3.7	9.5	0,1	1418		39.7	37.2	623	4,9	2.0	41.6	
Column C	-	0.4	0.4	360,0	45.2	0 0	146.3	16.2	3.1	3.1	33.0			30.2	40	0	0	73.7	73,7	7,1	10.8	61.4	45	80.5	68.8	3.0	3.9	333.0	1,7	1.7	3.6	9.4	272	6.1			4 1		19.3	61,3	132.7	123.4	10.8	51.4	1343	10.7	1.6	320.0	173	90 45		25.5	43	73.7	17.8	21.3	15.9	3.1	7,7	0.0	1210		282	31,1	62.1	2 5	2.3	34.0	
Column C		0.3	0.3	3743	659	0.0	131.9	96.8	3.2	3,2	34.7	669		30,7	3.2	375		818	818	7,7	11,5	54.7	43	85.6	71.5	43	42	332.7	1.7	17	3.6	9.6	8.2	6.2		1224.9			22.8	883	134.8	132.7	11.5	24.7	71.6	11.5	1,6	322.7	17	4.7		16.8	4.7	eg e	19.6	25,3	15.2	3.1	82 2	32	1387	****	38.9	31.6	242	3 5	2.4	33,4	
Comparison Com	, L.	080	080 0	080 0.00	7 0.90	080	2 0.60	080	080	080	080	*		7 0,80	0.80	0001	001 0	1 080	1 0.80	080	080 8	2 080	100	.6 0.80	080	080	080	080 0.	080	080	080	080	080	0.50		s			4 0.90	0.90	080	2 080	080	2 0.80	080	4 0.80	8 0.80	080	080	080		080 0	080	080	3 0.80	3 1,00	080	080	080	000	10		0.80	8 0.60	0.80	0,70	0.00	0.00	
Comparison Com		104 0.4	164 0.4	187 450	185 47.	102 0.5	180 242	181 0.5	187 3.8	187 3.8	188 32	-		185 37,	167 5.0	100 24 20	W 201	181	183 92	161	13	189 64	180	.89 100	187 85.	101	191 35	187 400	180 2,5	180 23	184	11,	189 91	188		-			130 21	195 57.	185	190 164	13,	109 64	187 187	13	1.0	187 400	180 25	891		26 28	181	8 8	22 22	100 21	180	104 35	180	100	- 2	-	180 33	185 51,	187 65	187 5.5	185 25	192	
Comparison Com	CTED LOA	0.71	0.71	0.96	0.98	2 2 2	0.85	0.0	0,83	0.83	0.90			0,90	0.63	0.94	0.94	88 88 0	0.88	000	0.88	0.00	200	0.94 0	0.94	0.00	0.82	0.98	0.84	0.84	0.89	0.98	0.90	0.98			H		0.00	0.97	0.89	0.92	0.88	0.00	0.08	0.88	0.80	0.96	0.84	22		0.60	0.00	88 0	0.94	0.00	0.95	0.09	0800	0,30			0.95	0.95	0.93	060	0.95	980	
Column C	OONNE	069	690	690	690	690	690	68	690	690	690			690	000	089	069	88	690	000	690	690	000	690	690	69	690	690	690	000	089	030	600	690				Į	690	690	690	690	690	690	690	690	690	680	630	600		690	690	880	690	690	690	000	000	CORT		-	680	690	690	690	069	690	
Column C		0.25	0.25	450,0	6700	0.0	230.0	17.6	3,3	3,3	39.0	999		34.5	2.5	22.0	22.0	800	000	9.6	12.7	63.0	3.0	101.0	94.0	22	3.5	400,0	1,75	1,75	300,000	13.800	9.2	502		448			25.0	63.0	0.001	152.0	12.7	000	151.0	12.7	1,5	400.0	2,0	Q,8		13,3	23	000	23.0	25.0	0.81	3.5	92	707	148		40,000	50.0	63.0	5.5	2.0	0.05	
Column C	R. STARTES CE TYPE	700	700	A SFT	A FOR	000	7 FDR	7 250650	700 /	V DOL	/ ROR			A FOR	A FOR	1 10 K	N FOR	FOR FOR	r ROR	100	700	700	N 10 10 10 10 10 10 10 10 10 10 10 10 10	A FOR	700	200	A DOL	A SFT	700	00	1 BR	A FOR	F FOR	T ROR					000	200	8 B	A SFT	700	700	N 100 P	700	700	1 20	700	A 10.0		A 10 R	r ror	8 8 B	A FOR	A FOR	A FOR	T ROR	1 10 R	202			10 POR		000	ž 8	700	000	
March 1997 Mar		2	H	die	41478	s s	WINE	9	,	0.000				Ē	WISSA	WIGZA	WISZA		۵	W162B		WISSA	WISSA	WI35A	980	WIDS.	VIT64	ote o	W162A	MISZA	d Country	V1489	d	p d					998	998	0.000	988	\$12	WISSA	41358	988	MPOOL	ASS UNIVERSAL	MISSA		H		512	t	W158	W135B	ľ	902	952	900		ľ	9		Ì	Τ			
SECOND SE		34 NA	34 NA	34 AP	34 AVFR	34 M013	34 APN	34 NA	34 M32 T	34 M32 1	34 89P			41 NA	41 ASA	41 ASP	41 A/S/	41 FPM	41 F.P.W	41 ASP	41 FPV4	41 A/S/	41 ASP	41 APN	41 API	41 4/57	41 ASV	41 AP	41 A/S/Y	41 ASA	41 FP/4	41 AST	41 FPV4	41 FPM					42 A/S/2	42 AVS/2	42 NA	42 ASC	42 ASC	42 AVS/1	42 FPN 42 ANS	42 A/S/2	42 MOG	42 ANSO	42 A/S/	42 M124		× ×	AST.	NA S	42 ASN	42 APN	2 2	AST.	20 4/8/2	200		-	43 M221	43 M006	43 NA	43 NA	43 NA	43 M22 (
10 10 10 10 10 10 10 10	*	MOC	MOC	MOC	MOC	MOM	MOC	MON	MOC	MOC	WOO			MOD	MOO	W SS	WOO	8 8	MOS	W 00	MOOM	MOS	8 E	MOC	MOO	O C	MOC	MOC	MOO	8	8 8	MOO	MOC	MON MON			H		MOC	MOS	8 8	88	MOC	MOO	8 8 8	MOC	MOO	8 8	8	88		MPB	WPB	MPB	MPB	MPB	MPB	MPB	MPB	O.W.			88	MOC	MOO	3 8 W	MOC	MOO	
10 10 10 10 10 10 10 10	DESCRIPTION	NG FAW FOR DRILL FLOOR FIND PORT	NG FAN FOR PPE STORAGE AREA MET PORT	No restrictive and the second profits	DLPWEL	8003	OM VERTLATION FAN	R HE ATEN SHELTER	R M108, M202	R M100, M202	670-FE-40A			JOL PAVEL	ARUNIT	ATON OLI PUMP	ATION OL PUMP	NET PACK 1	WER PACK 2	G1170 044	UNGPUMP	di di		(N1-JOCOD 1-B) MOT OR STARTER PANEL	EF.				dWh	PUMP	OWGER FAN	CATROL POWER	COUNS UNIT	ING AND MISC. LY LOADS						OLDUP	EQUIPMENT TRANSFER PLIMP	ER PUMP	UNGPUMP	di di	c			9	dATA d	10HT DOOR (REDUNDANCY)	0.42	3	NIT	WER PACK 1	The state of the s		ONTHOL VALUE	CHACIE FW	COUNCINE	area Area Mout Ly Londo					LOWERWOTOR4B	PUMOTORAIB UBEOL MOTORAIB	0	Padra unt	
10 September 10		THERMAL OL HEATED VENTRA	THERMAL OL HEATED VENTE	SEA WATER SERVICE PUMP	THERMAL OIL LONGL CONTINC	VENTILATION FAN (ANDA.) FOR	VED FOR ALT PS ENSINEROX	VENTILATION FAN (ADDAL) FOR	VENTILATION FAN (AXXAL) FOR	VENTILATION FAN (AXXAL) FOR	LOP FOR ELECTRIC HEATER 6	Total com unpalon of MCC 34	GWA13	DAT DAVIT NO.4 CONT	MAN ENGINE G TURNING GE.	WAIN ENGINE IS THE LUBRICA	MAN ENGNEH PRE-LUBRIC.	THRUSTER A LUBRICATION U.	THRUSTER A HYDRALLIC POV	F.O. CIRCLEATION PUMPS	THRUSTER SEA WATER COOL	FRESH WATER COOLING PUB.	L'EMEHEATING UNE	FRESH WATER GENERATOR (BALLAST PUMP, SUBMERSIBL	SLUDGE PUMP	SUMPTRANSFERPUMP	MAIN FIRE PLAYP	1KV GENERATOR-G DE L	11KV GENERATOR-GINDELLO	THAUSTER JOTAR A HEAT TO	1 NO SWILD HIS LUPS FOR CO.	THRUSTER W/D A WATER CO.	THRUSTER WED A PRECHARGO PAMEL BOARD FOR WATER TO		Total consumption of MCC 41		EN-M14	BASE OL SERVICE PUMP	TRANSFER PUMPING 1 BASE.	POWER JB FOR WELL TEST.	AFT MAIN SEA COOLING WATE	THRUSTER SEA WATER COOL	FRESH WATER COOLING PUB.	SERVICE AIR COMPRESSOR	BILGEP LIMP, PONTOON	DRAIN TRANSFER PLIMP	MAN FIRE PUMP	11KV GENERATOR-HINDE LIO	PANEL BOAND FOR WATER T.	nsumption of Panel board	START CABRE T FOR WINDLAN	THRUSTER GLUBRICATION U	THRUSTER CHYDRAULC PCA.	STARTING AR COMPRESSOR	SERVICE AIR DRIVER	HPPMOTOR FOR INFMOTE CO	THRUSTER SOME GHEAT EXC			Total consumption of MCC 42	-EN-M16	UPSZ 40KVA MAN SUPPLY	HVAC DC AND LER	AHD DZ DRAWWORKS MW BL	AHD DZ DRAWWORKS MW LL	TOP DRIVE BLOWER MOTOR L	N.L. in e Riser. Tensioner System.	
Section 2 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Equipment number	578-GE-272H	578-GE-272K	721-PA-003-A	941-F-001-A	578-CB-201C	Ш	J,	578-GE-130C	578-0E-1300			WAC MCC 41, 873.	901-E-001-D		001-EC-002-G	801-EC-002-H	635-EC-001-A	635-EC-002-AB	703-PG-003-G	721-PA-005-A	722-PA-002-0	72-5-001-0	781-EC-001-B	901-PA-001-F	BM-P4-101-C	804-PA-004-D	813-PA-001-B	881-PA-001-G	881-PA-002-G	965-ET-T04-M	906-ER-UC4	987-EH-001-AA	807-EH-001-MB				6VAC MCC 42, 873	324-EM117	324-EM119	874-JB-014	721-PA-002-C	721-PA-005-G	722-PA-002-C	733-KC-001-C	933-PA-001-0	804-PG-002-B	813-PA-001-C	881-PA-002-H	875-EN-P12	875-EN-M42, Cc	278-EU-002-0	635-EC-001-G	ess scools da	731-143-001-8	733-W-001-B	831-H-001-CB	905-ET-T04-GA	987-EH001-GA	001-ETHON 1-00		BOVAC MCC 43, 81	311-ER002A	311-B463A	312-EN0528	312-EM0548	313-EM104	314-EMB90	
		83	21	3 2	8	8 8	30	5 6	34	8 8	33		MARNE, 620	-	2	. 4	9	9 1-	8	6		22	22 1	16	10	11	100	33	21	8	8 8	88	38	22				MARNE, 69.	-	2	6	. 9	9		00 0	10	11	27 52	z	9			9	00 0		8	0,0	11	22 2	2		DRILLING, C	- 24	3	4	0 0	1	0	

Project NO: 3025	3: 3025																					
N/S	Equipment number	DESCRIPTION	MOC NOOM	SER. STA	STARTER	400	CONNECTED LOAD	5			TRANSIT + DP 75%	MODRING + THR ASST 50%	+ DP 80%		+ DP75%	BK REAKG + DP 75%	WELL CIRC'N AFTER DP MAX SINGLE FALURE		DEAD SHIP POWER EF	E MENGENCY MODE	DEFEMARK	Reference Low Speed
			NO		Н	W VOLT	r ess m	F AMP	NN AMP	NA DE	NA NW	DF KVA kW	DF KVA	kW Dr	KW D	DF KVA kW	DF KWA N	N DF KVA	A KW DF	WA KW	W	Rating
6			MOON3 M226	D FOR)R			85 51.8 0.90	47.9	0 299	0 0.0	10 6 4	7 10 6	4.7 10	6 4.7	10 6 4.5	0	0.0	0 0	0	0	
9	10 315-EN300	SORS, MOTOR COMPRESSOR 3	MOCA3 MC26	_	10R	1	0.95	0.85 51.8 0.90	47.4 46.6	0 200	0 00	10 6	2 10	4.7 10	5 4.7	10 6 47	9 0	47 0	0 0	0 0	0 (
: 21	317-15032	M OST-WAND HOURS AND AND AND AND AND AND AND AND AND AND	MOC43 M210	0 0	90	60 690	960	W 5.4 0.80	3.8	3.9	00	0	2 0	0.20	0 0	0 02	0	0 0 0	0	0	0	
22	13 321-EMB10	0	MOCA3 N/A	0	7		0.95	0.85 11,4 0.80	8.3 8.1	10,9 0	0 00	0 0	0 0	0 00	00 00	0 0 0	0	0.0	0 0 0	0	0	
	324-EM106	MUD TRANSFER PUMP NO 4 - GBM DUTY	7	0	7	_	0.95	68.5	+	73.7 0	0 0.0	20 16 12.7	7 20 16	12.7 20	15 12.7	20 15 12.7	0 0 2	0 00	0 0	0 0	0	
\$2 2	324-EM108	MJD MIX PLUMP NO.4. GRM DUTY	MOCA3 M161	8 8	g ,	67.0 690	0.95	0.96 68.5 0.90	63.3 61.6	73.7 0	0 000	20 16 12	7 20 16	12.7 20	15 12.7	20 16 12.7	20 10	12.7	0 0	0 0	0 (
11	17 32A-EM132	AGITATOR CIBM ACTIVE MIX TANK	1	0 0	3 2	L	0.83	14.9	11.7	142	00	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 00 00	28 88	2 88	7 5.6	8 8	0 0 0	0		0	
22	32M-EM133	AGITATOR GBM ACTIVE SUCTION TWAK	MOCA3 N/A	0	7		0.93	Н	11.7 11.9	14.2 0	0 0.0	50 7 5	8 50 7	5.8 50	7 5.8	50 7 528	7 00 1	0.88	0 0	0	0	
	324-EM134	AGITATOR OSM RESERVE TANK NO.1	\neg	-	75	_	0.93	14.9	611 511	14.2 0	0 0.0	50 7 5	7 20	5.8	7. 5.8	50 7 5.1	2 00 2	0.8	0 0	0 0	0	
	324-EM135	AGITATOR CBM RESERVE TANK NO.2	MOC43 N/A	0 00	7	_	0.93	-	611 7.11	14.2 0	0 0.0	50 7 6	7 00 2	5.8 50	7 5.8	50 7 5.8	7 00 F	6.8 0	0 0	0 0	0	
21	324-EM136	AGITATOR CBM RESERVE TANK NO3	MOCA3 N/A	8 8	g :	15.0 690	0 0.03 0.02	22 16.5 0.80	13.0 13.2	16.8 0	0 000	50 8 6	8 2	6.5 80	8 65	50 8 6.	8 8	0 0 0	0 0	0 0	0 (
Т	32M-EMI3II	AGITATOR ON RESERVE TANK NOS	T	3 0	3 2	╀	0.80	ľ	130 132	15.0	000	200	8 8	8 8	0.00	30 11 65	8 8	0 0	0 0	0	0	
8	24 324-EM142	WASHING MICHIEP UMP CIM PIT TANK	MOCA3 MIS1	0	7	92 690	0 0.00 0.00	2 11,3 0,70	7.7 7.9	9.5	0 00	0 0 0	0 0	0.0	00 00	0 0 00	0 0	0 00	0 0 0	0 0	0	
R	325-EM10.2C	HPMJD PUMP NO.3, FANIA		0	75	_	0.02	183 142 0.80	11.3 11.4	13,6 0	0 0.0	25 3 2	325	2.8 25	3 2.8	25 3 21	2 00 2	6.7 0	0 0	0 0	0	
8	325-EM103C	HPMUD PUMP NO.3, FAN B	Т	0	7	13.0 690	0.92	183 142 0.80	11,3 11,4	13.6 0	0 0'0	26 3 2	8	28 25	3 2.8	26 3 21	7 50 7	0.70	0 0	0 0	0	
22	325-EM104C	HPMUD PUMP NO.3, UNER SPRAY PUMP MOTOR	MOC43 A/SM161	8	8 :	2.3 690	0.83	0.82 2.8 0.60	1.6 1.7	2.0 0	0 00	0 0	00 100	1,6 100	2 1.6 1	2 1,	1 00	0.8 0	0 0	0	0	
Т	325-EM105C	HPMUD PURP NO.3, UDBE OL MOTOR	MODES ANSWEDS	3 8	J ,	1,1 690	200	12 0.00	0.08	1,1	000	100	100	20.2	1 000	100	8 8	0 0			0 0	
8	325-68117	MUD CAMBGE PUMPING 3 DUTY	MOOKS MISS	9 0	3 2	L	1 0.85 0.6	73 554 0.80	40.9	0 600	000	27 30	2 22	30.7	37 30.7	20 37 303	38 18	15.4	0	0	0	
31	328-EM108A	VACUUM DE GASSER NO2 (MOTOR A)	WOC43 M318	0	75	18.5 690	3 0.93 0.2	22 20,4 0,80	16.0 16.3	19.5 0	0 0'0	0 0	0 0	0.0	0.0	0 0.0	10 00	0 0	0 0	3 0	0	
æ	326-EM1088		MOC43 MB18	0	75	4.0 690	0.85 0.1	90 6.0 0.80	3.8 4.0	4,7 0	0 0.0	0 0 0	0 0	0 00	0 00	0 0 0.0	2 2	1,9 0	0 0	0 0	0	
8	328-EN20 2A&B	CENTRFUGENO2 - FUTURE OPTION	MOCA3 M318	ō Q	N.	30.0 690	0 0.03 0.1	23.1 0.80	25.9 28.4	31.6 0	0 0.0	50 16 13	90	13.0 50	16 13.0	50 16 13.1	0 0	0.0	0 0	0 0	0	
8	328-EM112	CENTRIFUGE FEED PUMP NO.2 - RUTURE OPTION	MOD43 M151	0	2	7.5 690	0 0.93 0.1	2 83 0.80	6.6 6.6	7.9 0	0 0.0	50 4 3	2 80	3.2 50	4 32	50 4 31	0 0 2	0 00	0 0	0 0	0	
16 2	328-EM114	CUTTING SCHEW CONVEYOR NO.2	MOCA3 M918	8 8	g ,	22.5 69.	0 000 0	248 0.80	19,4 19,8	23.7 0	0 000	50 12 5	22 22	9.7	12 9.7	50 12 9	0 0	0 00	0 0	0 0	0 (
8	200 6741000	SOUTH SOUR TOTAL SOUTH SOUTH THE PARTY OF	MOONS NAME	3 8	3 2	100 000	000	000 000	000 000	0 0	000	00 00	8 8	3.2 00	200	30 40	0 0	0 0	0 0	0 0		
	SO FMITT	SON STREET HITE MANAGEMENT AND STREET WORLD	MODES MIRE	9 6	9 9	800 800	200	W 888 080	68.1 67.0	90 0	000	33 38 38	3 6	22.6 33	28 22 82	13 36 22 48	30 00	20 6 0				
8	322-411008	BOP SYSTEM, UPS B	MOCA3 M188	0 10	1R 2:	2.0KVA 690	0 0.98 0.8	N 21,8 0,80	15.4 15.0	0 081	0 0'0	50 9	7 50 9	7,7	2 22	1/2 6 05	100 18	15.4 0	0	0	0	
41	337-EM102	TRIP TANK PUMP NO.2	MOD43 N/A	0	7	62.0 690	0 0.94 0.8	96 53.6 0.90	49.5 48.2	67.6 0	0 0.0	0 0	0 0	0.0	0 0.0	0 01	0 0	0 0 0	0 0	0 0	0	
9	381-U101	WUCZ EBOOMCRANENO 1	MOD43 N/A	0	JR.	30.0 690	0 0.95 0.8	85 31.1 0.70	22.1 21.8	28,0 0	000	0 0 0	00 00	11,1 90	13 11,1	50 13 11,	0 0	0 00	0 0	0	0	
9 7	ant criman	CEMENT POWER BLOWER	MOOKS WOODS	3 6	3 0	40 600	9 8	000 000	20 20	4.3	000		0 00	3.0	4 9.0	0 0	9	9 0				
16	BH FY MA B		MCC43 MC26	0		110.0	56.0	34 1150 080	003 000	0 660	000	100	9	46.2 50	66 40 5	50 66 462	99	0 28	0			
46	987-EN-S04-A		MOC43 A/SW221B	0 00	7	L	0.96	8,5	7,0 6,8	8,1 0	0 0'0	0 0	0 80 4	3,6 50	4 3,5 1	10 4 3,6	80 4	3,5	0 0 0	0 1	0	
47	47 867-EN-503-B		MOCA3 APPRIZ21A	0 000	7	7.5 690	0.00	8.5	7.0 6.8	0,1 0	0 0'0	0 0	0 30 4	3.5 50	4 3.5	50 4 3.5	1 50 4	3.5	0 0	0 0	0	
			-	1	1	+	1	1		1	1	1			1		1					
		Total consumption of MCC 43				1271		1 321	1078 1088	1276	22	424 355	25	27	438	501	394	328		70	#	
									П	IJ		Ш			Ш	П						
MARINE, 69.	SBOVAC MCC 44, 873-EN-M	17					L	ŀ														
-			MOCA4 M222	V 259	OBBE	_	0.90	0.08 48.6 0.80	40.9	+		100 40 40.9		40.9		100 46 40.9	3 100 46	40.9	0 0	0	0	WOW.
,	4 600 06 1604	VERNITATION CAN ANY ALTON COLUMN S PONTOCK NOT SHIPD	MOON MEDICAL	A 000	0000	7.0	000	00 3.4 0.00	200 000	3.3	100	000 000	0 100	20 100	20 00 0	00 00 00 00	100	0 00				0.00W
	5N-0E-2628	VENTILATION FAN (ASIAL) FOR M321 M321, M322, M333, M405	MOC44 MR25	V 288	PEED	22 690	0.77	0.80 2.82 0.80	23 23	2.7 100	23 23	100	3 100	23 100	3 23 11	3 23	100	23 0	0	0	0	O SKW
8	575-3D 247A		MOC44 M317	V 25F	PEED	38.5 690	0.92	0.84 41,5 0,80	33.3 33.2	39.7 100	40 33.3	100 40 33.3		33,3 100	40 33,3 10	00 40 33.3	100 40	33,3 0	0 0	0 0	0	10.5KW
6	575-3D-254C		\neg	>	25		0.91	0,93 16,8 0,80	14.9 13.4	16,1 100	_	100 16 14.9	9 100 16	14.9 100	16 14.9 10	00 16 14.9	100 16	14,9	0 0	0 0	0	
00	575-00-2540	EDHALIST FAN (CENTREUCAL) FOR MUD PITS	MOCA4 MD18	> :	8	17.0 690	0.91	0.83 14.8 0.80	M3 13A	16.1 100	16 149	100 16 14.9	9 100 16	14.9 100	16 14.9 10	16 14.	9 100 10	14.9	0 0	0 1	0 1	
	575-GE-2475	940	-	A .	n ,	0.00	0.00	26 080	173	2.1	0 0	000	8 8	339 500	20 00 00	0 0	0 0	938			0 0	Z IKW
19	Г			- >	3 2	6.6 690	980	080 75 080	62 60	2.1	3.1	50 4 3	8 8	3.1 50	4 3.1	10 4 31	80	3.1	0	0	0	
92	578-CE-251A	VENTILATION FAN (AXXIA) FOR NO 218, M153, M153, M1598 , M149	MOCA4 M316	V 288	PEED	3.6 693	0,78	0.87 4.5 0.80	3.7 3.6	4,3 50	2 1,9	50 2 1	9 80	1,9	2 1,9	10 2 1,5	2 2	1,9 0	0 100	4	4	0.9KW
17	578-CE-247A	VENTILATION FAN (AXXAL) FOR M164	MOC44 M905	V 25F	033d:	9.9 690	0.87	0.88 10.8 0.80	9.1 8.7	10,4 100	10 9.1	100 10 9.	1 100 10	9,1 100	1.0 9,1 5	10 9,1	100 10	9,1	0 0	0 0	0	2.4VV
	578-CE-2478	VENTILATION FAN (AXXIA), FOR M164	Т	V 256	SPEED	_	0.87	4	6.9 6.5	7.8 100	8 6.9	100 8 6.9	_	6.9 100	8 6.9 1	8 6.9	8 000 t	0.9	0 0	0 0	0	2.1KW
	578-GE-272F	THEPAML OIL HEATED VENTING FAN FOR CELL AR DECKART STEDWICKIP COL.		A .	8	0.25 690	0.71	0.64 0.46 0.80	0.3 0.4	0,4 100	0 03	3 0 001	3 100	03 100	0 03 5	00 0 0.	0 000	0'3 0	0 0	0	0	
8 2	500-00-272 500-00-272	THERMAL OL HEATED VENTAGE RAY FOR DRUL FLOOR FIVE STED. THERMAL OL HEATED VENTAGE SAM FOR DRUL FLOOR AFT STRO.	MOCA4 OUTSIDE	> >	ď ,	0.25 690	0.71	264 0.46 0.80	0.3	0.4	0 0	000	0 0 0	03 100	0 0 0	0 0 0	8 6	0.0	0 0	0 0	0 0	
	578-0E-2784	THERMAL OF HEATED VENTRAL FAVE CREDIT COOK OF A SECOND STEEL THERE AND THE SECOND SECO		3 8	5 -	L	12.0	0.00 0.00	03	0.4	0 0	0 00	9 6	03 100	0 0 0	0 0	0 00	0 0	0 0	0 0	0 0	
	578-CE-272N			- >	, ,	L	0.71	164 0.46 0.80	0.3	0,4	0 03	0 0 0	3 100	0.3 100	0 03 14	0 00	0 001	03 0	0	0	0	
M	721-PA-003-B			M SFI				37 450,0 0,80	375,2 360,0	Н		50 215 187,6				50 215 187,6	90 216	187,6 0	0 0	0 0	0	
77	27 876-ER-VOA	FAN		V 10	NC.	_	0.95	0.80 242,2 0,60	138.9 146.3	-	174 138.9	174	_	138.9	174 138.9 10	00 174 138,9	100 174	138.9 0	0 100	27.5	230	
33	876-ER-V10		MOCAA AVSMISS	>	N.	140,0 690	0.95	1.00 154.1 0.60	88.4 92.5	110.5 100	111 00.4	100 111 09.4	-	88.4 100	111 09.4 10	00 111 88.4	111	08.4	0 0	0	0	
8	570-GE-142C	VENTILATION FAN (ASSAL) FOR COLLIAN & POYTOCK (AFTERTIO)		× 28	OBBO	17.6 690	0.80	81 20.2 0.80	15.6 16.2	19.3 100	19 15.6	10	_	15.6 100	19 199 1	19 15.	100	0 993	0	0	0	8.20W
31	31 578-0E-134C			2	2	3.3 690	0.82	ν,	3.2 3.1	3.7 100	4 3.2	100 4 3	32 100 4	3.2 100	4 32 1	30 4 3.	100 4	3.2 0	0 0	0 0	0	
Si	578-CE-134D	VENTILATION FAN (AXXIL) FOR M128, N239	MOC44 MS3	9	75	3,3 690	0.82	3.85 0.80	3.2 3.1	3,7 100	4 3.2	100 4 3	2 100 4	3.2 100	4 32 5	30 4 33	100 4	3.2 0	0 0	0	0	_

Odfjell GVA 7500 Semi-submersible Drilling Rig Project NO: 3025

Part Part	Name	A	PY REIMARK 20.3 20.3 20.3 20.3 20.3 20.4 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5
No. Control & SAMLI POWER DE No. Control Ent Fig F	NAM DF NAM DF	Corp. New Corp.	
NVILLETITIORS SEMALL POWER DB NVILLETITIORS SEMALL POWER DB	123.2 60 123.3 60 123.3 60 123.3 60 133.2 60 133.3 60 133	10 10 10 10 10 10 10 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
NULCHITING SAMALL POWER DB	12.2 20 22.3 20 22.3 20 22.3 20 20 20 20 20 20 20 2	20 20 20 20 20 20 20 20	
Victorinic Samut Powers De 20,0 0,00	12.23 60 12.23 60 12.24 60 12.	88 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
Voluminio Samul Povieto Be 22,8 22,9 0.56	15.2 20 20 20 20 20 20 20	10 10 10 10 10 10 10 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
VICTORING & SAMALL POWERD B 25.0 25.0 0.56	302 80 302 302 80 302	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
VLOUTING & SWALL POWIRD B VLOUTING & SWALL POWI	145 20	10 10 10 10 10 10 10 10	
VECKUELPINGS SAMLI POWIENDE 20, 20, 20, 50, 50, 50, 50, 50, 50, 50, 50, 50, 5	145 600 145	145 15 15 15 15 15 15 15	
VILLETINGE & SWALL POWER DB	170 600 170	170 0 0 0 0 0 0 0 0 0	
OF MANIEL DOMEIR DE SAMLI POWER DB 27.8 22.0 0.56 0.06 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07	17.0 600 17.	10 10 10 10 10 10 10 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
OF SMALL POWER DE CASE DE	150 600 150	100 100	
Value Dovieto Delica Days Salue Dovieto Delica Days Salu	17.7 60 17.7	17.7 0 0 0 0 0 0 0 0 0	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Value Valu	107 269 107 107 107	10 10 10 10 10 10 10 10	2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4
71 OF SMALL POWER DB 71 OF SMALL POWER DB 72 OF SMALL POWER DB 72 OF SMALL POWER DB 73 OF SMALL POWER DB 74 OF SMALL POWER DB 75 OF SMA	150 20	80 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Marie Consumption of a state Marie Consumption of a state	377 600 377 600 379 379	2222 222	
STATE STAT	S223	2223, 9	
STATE STAT	223.8 223.8 223.9 223.	223.9 25.19	W 000 D 00 D
OF PANEL BOARD: ALC DINIT 86.2 44.0 0.86 0.89 169.3 10.0 10.0.2 169.3 10.0 10.0.2 169.3 10.0 10.0.2 169.3 10.0 10.0.2 169.3 10.0 10.0.2 169.3 10.0 </td <td> 501 50 501 50 501 50 501 50 50</td> <td> 10 10 10 10 10 10 10 10</td> <td></td>	501 50 501 50 501 50 501 50 50	10 10 10 10 10 10 10 10	
9 VPAMEL BOAND-ACLINIT 19 S 440 0 50 0 102 3 100 1017 1432 153 0 10 1017 19 S 440 0 50 0 102 3 100 1017 1432 153 0 10 1017 19 S 440 0 50 0 100 100 1017 1432 153 0 10 1017 19 S 440 0 50 0 100 100 100 1017 1432 153 0 10 1017 19 S 440 0 50 0 100 100 100 100 1017 1432 153 0 10 1017 19 S 440 0 50 0 100 100 100 100 100 1017 1432 153 0 10 113 19 S 440 0 50 0 100 100 100 100 100 100 1017 19 S 440 0 50 0 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 00 00 00 00 00	
OF PAMEL BOARD - ACCUMIT 96.2 440 0.86 0.89 194.3 100 100.2 164.3 150 160.2 160.3 160.4 160.2 160.3 160.1 160.2 160.3 160.1 160.2 160.3 160.1 160.2 160.3 160.1 160.2 160.3 160.1 160.2	501 501	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
9 VP PAMEL BOAND. CALLEY EQUIPMENT 75.4 440 0.50 0.00 1723 1.50 0.50 1.60 1.70 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.4	84 10 84 10 10 84 10 10 84 10 10 84 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
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Note Communication of Fig. 2 Note Carlo Carl	12.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S
Free Parker Cherekeat From Fall Registration of Table State (1974) Free Parker Cherekeat From Fall Registration of Table State (1974) Free Parker Cherekeat From Fall Registration of Table State (1974) From Voluminion & Samula Downers Die No. 120 0.56 0.09 0.04 1.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24
PARTICIPATION CONTENTION 152 50 252 50 552 50 552 50 552 50 552 50 552 50 552 50 552 50 50	25 25 25 25 25 25 25 25 25 25 25 25 25 2	2.3 (.3)	
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SAME DATE OF CAME BOARD OF TRANSPORTED B	21:9 60 21:9 80 21:9 80 21:9 80 22:4 8	0 19	15
STATE STAT	21.0 80 21.0 80 21.0 80 21.0 80 22.4 80 22.4 80 25.6 8	0 12	<u>, , , , , , , , , , , , , , , , , , , </u>
OF LICHTHOLS SEMALI POWER DB 220 CSD 0.56 0.76.4 1.00 27.4 77.4 1.00 27.5 27.5 27.5 1.00 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 <	219 60 219 60 219 60 210 60 60 60 60 60 60 60	-	
STATE LATE ZEOV LIGHTING & SEMALL POWEET DB	218 60 218 80 218 80 219 80 234 80 234 80 224 80 224 80 258 80 258 80 256 80 256 80 378 80 376 80 376 80 376 80 163 60 163 60 163 60 163 60		
SECTION SECT	244 60 254 80 254 80 254 80 254 80 255 80 25	210	21.0
2007 LGFHTMG & SAMALL POWER DB	256 80 256 80 256 80 256 80 256 80 376 80 376 80 376 80 376 80 376 80 376 80 36 80 36 80	80 23.4 0 0 80	23.4
2007 Color of Col	37,6 80 37,6 80 37,6 80 16,5 60 16,5 60	08 0 0 9 80	25.6
2007 LIGHTHIOL & SAMLLE POWER DB 2017 2010 2015 2010 2017 2017 2015	16,5 60 16,5 60 16,5 60	90 37.6 0	37.6
2007 UGHTMIC S.SMALL POWER DE 220 220 026 036 037 03	00 000	60 165 0	16.5
2007 VAMALL POWIR DB 22.07 2.07	27 27 00	000000000000000000000000000000000000000	00 1
2007 USENILL PUMPREDB 2201 0.08 0.00 77,3 1.00 77,0 75,3 0.00 0.00 1.00 7,0 0.00 0.00 7,0 0.00 0.00 0.00 7,0 0.00 0.0	14,5 80 14,5 80 14,5 80	90 14,5 0 0 60	¢.
200Y DALL FOWER DB 227 229 0.59 0.00	16,3 60 16,3 60 16,3 60	90 16,3 0 0 60	16,3
2007 SECK LIGHTHOR SAMALL POWER DB	21,6 80 21,6 80 21,6 80 21,6 80	5 80 21,6 0 0 80	21,6
2007 SAML POWER DE 2007 SA	14.3 60 14.3 60 14.3 60 14.3 60	14,3 0 0 60	14,3
2200 NAVILLE DIPORTING NAVILLE POWER TO 12.2 220 0.056 0.06 0.05 0.06 0.05 0.05 0.05 0.	2,8 30 2,8 30 2,8 30 2,8	2,8 0 0 30	2,8
2004 PANCIACIDI EQUIP. SIAALI, POVIRE RB 33.6 23.0 0.56 0.0 67.0 36.5 1.00 36.5 1.00 36.5 1.00 36.5 1.00 36.5 1.00 36.0 1.44 Total consumption of Land consumption of Land Consump	3,9	3,9 30 3,9 0 0 30	6'
220 V PALOI EQUIP. SMALL POWER DB 72.8 220 0.95 0.90 0.70 1.00 24.0 0.70 26.7 0.0 14.4 Total consumption of Total	21,2 60 21,2 60 21,2 60 21,2 60	60 21,2 0 0 60	21,2
Trait consumption of Trait Con	14,4 60 14,4 60 14,4 60	14,4 60 14,4 0 60 1	14,4
1.5.2.7 SECTION SECT			
ASSISTANCE BOARD-ACCUNIT 112.8 440 0.56 0.50 154.8 1.00 118.7 154.8 150 5.54 140.9 154.8 150 118.7 154.8 150 5.54 150 155.8 15	234,1 234,1 234,1	234,1 234,1 0,0 234,1	F.
700 TOWN THE BOARD - GALLEY EDUPMENT 112.8 440 0.56 0.50 84.2 1.00 118.7 194.8 148.4 50 65.9 65.9 148.4 148.4 50 65.9 65.9 148.4 148.4 50 65.9 65.9 148.4 14			
440V PANEL BOARD - A/CLUNIT 112,8 440 0.95 0.80 194,8 1.00 118,7 194,8 149,4 50 594 440V PANEL BOARD - GALLEY EQUIPMENT 51,1 440 0.95 0.80 88,2 1,00 53,8 88,2 67,2 50 26,9	-		-
440V PANEL BOARD - GALLEY EQUIPMENT 51,1 440 0,95 0,80 88,2 1,00 53,8 88,2 67,2 50 26,9	59,4 50 59,4 50 59,4 50 59,4 50	50 59,4 0 0 50	59,4
	26,9 50 26,9 50 26,9 50 26,9 50	50 26,9 0 0 50	26,9
440V PANEL BOARD - WELDING RECEPTACLE 122,5 440 0,50 0,50 247,0 1,00 189,4 247,0 188,3 10 16,9	16,9 10 16,9 10 16,9 10	10 16,9 0 0 10	16,9
WELDING SHOP 70.9 440 0.90 0.90 114,9 1,00 78,8 114,9 87,5	7,9 10 7,9	7,9 10 7,9 0 0 10	7,9
Tradi consumption of Tradi consumption of Tradi consumption of 1 consumpti	**************************************	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Inter Diseas Libras Colons		000	
30VAC, LS61, 87S-EL-H1 2 (Power Panal)			
24,6	24,6 50 24,6 50 24,6 80	24,6 0 0 50	24,6
230V ELECTRIC REHEATER/HEATER PANEL 39,4 230 0,95 0,90 115,7 1,00 41,5 115,7 46,1 50	20,7 50 20,7 50 20,7 50 20,7 80	50 20,7 0 0 50	2)

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			kW V	VOLT E	EFF P	PF AW	AMP	kW	AMP	kVA	DF	kW	DF kW	V DF	kW	DF	kW	DF	kW	DF KW	DF	kW	DF	kW	
33	3 875-EL-H24	230V ELECTRIC REHEATER/HEATER PANEL	32,4	230	0,95 0,8	06'0	95,2 1,00	34.1	95,2	37,9	90	17.1	50	17,1 50	17,1	90	17,1	80	27,3	50 1	17,1	0	0 50	1'21	
Ш				H	H	Н												H			Ц				
		Total consumption of LS 61				3	348	12	125 348	139		62		62	62		62		100		62		0	79	
l																									
230	230 VAC, LS 31, 871-EL-S03	EL-S03																							
-	1 891-EL-L31	230V LIGHTING & SMALL POWER DB	29.7	230	0,95 0,9	0,90 87,	7,1 1,00	31,2	87,1	34.7	80	25,0	80	25,0 80	25,0	80	25,0	80	25,0	80 2	25,0	0	0 80	25,0	
2	2 891-EL-L32	230V LIGHTING & SMALL POWER DB	25,1	230	0,95 0,9	0,90 73	73,8 1,00	26,4	73,8	29,4	80	212	80	21,2 80	21,2	80	21,2	80	21.2	80 2	21,2	0	0 80	21,2	
3	3 891-EL-L33	230V LIGHTING & SMALL POWER DB	43,3	230	0,95 0,9	0,90 127	127,1 1,00	45,6	127,1	9'09	80	36,5	80	36,5 80	36,5	80	36,5	80	36,5	80 3	36,5	0	0 80	36.5	
4	t 891-EL-L34	230V LIGHTING & SMALL POWER DB	21,7	230	0,95 0,9	0,90 63	63,8 1,00	22,9	63,8	25,4	80	18,3	80	18,3 80	18,3	80	18,3	80	18,3	80	18,3	0	0 80	18,3	
5	5 891-EL-L35	230V SMALL POWER DB	22,7	230 (96'0	99 06'0	66,7 1,00	23,9	2'99	26,6	80	19,1	80	19,1 80	19,1	80	19,1	80	19,1	1 1	19,1	0	0 80	161	
9	6 891-EL-L36	230V SMALL POWER DB	17,4	230 (96'0	0,90 51	51,1 1,00	18,3	51,1	20,4	80	14,7	80	14,7 80	14,7	08	14,7	80	14,7	1 1	14,7 (0	0 80	14,7	
7	7 893-EL-L37	230V LIGHTING & SMALL POWER DB FOR DRILLING AREA	31,6	230 (96'0	0,90	92,7 1,00	33,3	92,7	6'96	09	20,0	09	20,0 60	20,02	09	20,0	09	20,0	60 2	20,0	0	09 0	20'0	
8	3 893-EL-D31	230V DECK LIGHTING & SMALL POWER DB	30,3	230	0,95 0,9	06'0	89,0 1,00	31,9	0'68	35,5	09	19,2	. 09	19,2 60	19,2	09	19,2	09	19,2	60 1	19,2	0	09 0	19,2	
6	9 893-EL-D32	230V DECKLIGHTING & SMALL POWER DB	30,8	230	6'0 96'0	06'0	90,3 1,00	32,4	6,06	0'96	09	19,4	1 09	19,4 60	19,4	09	19,4	09	19,4	1 09	19,4	0	09 0	19,4	
		Total consumption of L.S.31						26	266 742	2 295		193		193	193		193		193		193		0	193	
J				l	l	l	l					١						l	١						
440	1VAC, LS32, 875-E	440VAC, LS32, 875-EN-P03 (Power Panel)																							
-	1 875-EN-P03	440V PANEL BOARD - A/C UNIT	76,5	440	0,95 0,9	0,90	117,4 1,00	90,5	117,4	89,5	20	40,3	20	40,3 50	40,3	90	40,3	90	40,3	50 4	40,3	0	0 50	40,3	
		Total consumption of																							
L		1.5.32		1	+	÷	117,4	8	80,5 117,4	89,5	1	40,3		40,3	40,3		40,3	1	40,3		40,3		0,0	40,3	
230	230 VAC, LS41, 871-EL-S04	EL-S04																							
Ľ	1 891-EL-L41	230V LIGHTING & SMALL POWER DB	23,7	230	0,95 0,9	06'0	9,7 1,00	25,0	2'69	27,8	80	20,0	80	20,0 80	20,0	80	20,0	80	20,0	80 2	20,0	0	0 80	20,0	
2	2 891-EL-L42	230V LIGHTING & SMALL POWER DB	35,4	230 (0,95 0,9	0,90 104	104,0 1,00	37,3	104,0	41,4	80	29,8	80	29,8 80	29,8	80	29,8	80	29,8	80 2	29,8	0	0 80	3'62	
3	3 891-EL-L43	230V LIGHTING & SMALL POWER DB	30,1	230	0,95 0,9	0,90 88	88,4 1,00	31,7	88,4	35,2	80	25,3	80	25,3 80	25,3	80	25,3	80	25,3	80 2	25,3	0	0 80	25,3	
4	1 891-EL-L44	230V LIGHTING & SMALL POWER DB	47,5	230	0,95 0,9	0,90 139	139,5 1,00	0'09	139,5	55,6	80	40,0	80	40,0 80	40,0	80	40,0	80	40,0	80 4	40,0	0	0 80	40,0	
2	5 891-EL-L45	230V SMALL POWER DB	17,2	230	0,95 0,9	06'0	50,5 1,00	18,1	50,5	20,1	80	14,5	80	14,5 80	14,5	80	14,5	80	14,5	1 1	14,5	0	0 80	14,5	
9	6 891-EL-L46	230V SMALL POWER DB	19,8	230	0,95 0,9	06'0	58,1 1,00	20,8	58,1	23,2	80	16,7	80	16,7 80	16,7	. 80	16,7	80	16,7	1 1	16,7	Q	0 80	16,7	
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~	1 891-EL-L41	230V LIGHTING & SMALL POWER DB	23,7	230	0,95	0,90	69.7 1.0	1,00 25,0	69.7	27,8	80	20,0	80	20,0	80	20,0	80	20,02	80 20	20,0 80	20,0	0 0		0 80	20,0	
,7	2 891-EL-L42	230V LIGHTING & SMALL POWER DB	35,4	230	0,95	0,90	104,0 1,0	1,00 37,3	3 104,0	41,4	80	29,8	80	29,8	80	29,8	80	29,8	80 26	29,8 80	29,8	.8	-	0 80	29,8	
	3 891-EL-L43	230V LIGHTING & SMALL POWER DB	30,1	230	0,95	06'0	88,4 1,0	1,00	7 88,4	35,2	80	25,3	80	25,3	80	25,3 8	80	25,3	80 25	25,3 80	0 25,3	.3 0		0 80	25,3	
4	4 891-EL-L44	230V LIGHTING & SMALL POWER DB	47,5	230	0,95	0,90	139,5 1,0	00'1	139,5	5 55,6	80	40,0	80	40,0	80	40,0	80	40,0	80 40	40,0	0 40,0	0 0		0 80	40,0	
4)	5 891-EL-L45	230V SMALL POWER DB	17,2	230	0,95	06'0	50,5 1,0	1,00	1 50,5	5 20,1	80	14,5	80	14,5	80	14,5 8	80	14,5	80 14	14,5 80	14,5	.5 0		0 80	14,5	
ę	6 891-EL-L46	230V SMALL POWER DB	19,8	230	0,95	06'0	58,1 1,0	,00 20,8	3 58,1	23,2	80	16,7	80	16,7	80	16,7	80	16,7	80 16	16,7 80	16,7	,7 0		0 80	16,7	
7	7 893-EL-L47	230V LIGHTING & SMALL POWER DB FOR DRILLING AREA	41.9	230	0,95	0,90	122,9 1,0	1,00 44,1	122,9	9 48,9	80	35,2	80	35,2	80	35,2	80	35,2	80 35	35,2 80	35,2	,2 0		0 80	35,2	
æ	8 931-EH-D41	230V DECKLIGHTING & SMALL POWER DB	24,5	230	0,95	0,90	71.9 1.0	00'1	3 71,9	3 28,7	80	20,6	80	20,6	80	20,6	80	20,6	80 20	20,6 80	20,6	0 9		0 80	20,6	
J)	9 931-EH-D42	230V DECKLIGHTING & SMALL POWER DB	30.9	230	0,95	06'0	90,8 1,0	,00 32,6	3 90,8	36,2	09	19,5	80	26,0	60	19,5	80	26,0	80 26,0	3,0 80	0 26,0	0 0		0 80	26,0	
<u> </u>		Total consumption of																								
_		LS 41		1	1	i	795,8	2	285,3 79	795,8 317,0	0,	221,7	1	228,3	2	221,7	2	228,3	228,3	3,3	228,3	6	0,0	٥	228,3	
440	3VAC, LS42, 875-L	40VAC, LS42, 875-EN-P04 (Power Panel)																								
ட்	1 875-EN-P04	440V PANEL BOARD - A'C UNIT	61,0	440	0,95	0,80	105,3 1,0	,00 64,2	2 105,3	3 80,3	90	32,1	20	32,1 6	90	32,1 5	20	32,1	50 32,	2,1 50	32,	.1 0		0 50	32,1	
		Total consumption of																								

Project NO: 3025

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1	S BRYACH RCG 22 RT-SEMBLE	
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1 N62 777 N62 777 N62 777 N62 N63 N64 875-ENARS, Consumption of Panel board 32		
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Odfiell G F Project NO: 3025				ELEC	CTRICA	AL LOA	ELECTRICAL LOAD ANALYSIS	4LYSIS																							
S/N Equipment number	DESCRITICAL DESCRIPTICAL	MOC	ROOM	S ER.	STARTER		CONNEC	DONNE CTE D LOAD		'n		-		TRANS II + DP 75%		MOORNS + TH	or.	SNITTING + DP 50%		+ DP 75%		BK REAKG + DP 75%		WELL CIRCN AFTER DP MAX SINGLE FALURE		DEAD SHIP POWER	_	E MERGENCY MODE	ODE	* 2	Reference Low Speed
			NO		1	W	VOLT	EFF PF	, AMP		, w	W day	KW. DF	K/A ×	kW De	KWK	kW Dr	KVA KW	8	KW. N	xw De	KVA	ww De	KVA WV	ъ	KVA	kw De	K/A	KW		Rating
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	MCC33					160	1	1	3		140	120	200	0	0	0	0	0		6	0	0	0	0	0	0	0	0	0	_	
MARINE, 690VAC MCC 34, 873-ENM12	173-ENAT2																														
23 721-PA-003-A		MOC34 API28P	9/30	M	Set	450.0	690	0.95	7 450.0	0.80	374.3	300.0 431	430.3 50	215	197,2 50	216	187.2 50	215 18	187.2 50	215 1	187.2 50	216	187,2 50	215 18	187.2 0	0	0 0	0	0		
30 878-ER-VX3	VFD FOR AFT PS ENGINE ROOM VENTLATION FAN	MOC34 APPMINS	P174146	^	FDR	230.0	690	0.95 0.80	0 242,2	0.80	138.9	145,3 17:	173.7 100	17.4	138.9 100	174	139,9 100	174 13	138.9 100	17.4	138,9 100	174	138.9 100	17.4 13	138.9 0	0	0 100	275	230		
	Total consumption of MCC 34					2.9			289		513	808	909	389	3.26	88.0	328	389	326	3.89	328	389	326	389	338			27.5	330		
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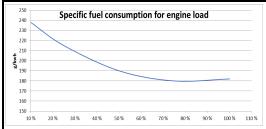
I. DSA Fuel prognosis

DSA Brennstoff prognose

Forbrukt Brennstoff til Diesel generator for ett år frå Q4-2017 til Q4-2018.

Tall er hentet fra offisielle verdier gitt til skattedirektoratet.

Årlige VerdierÅrlig forbruk11 245 tonnTotalt driftstimer på alle generatorer24 775 timerTotalt NoX utslipp595 985 kg



Beregnet spesifikt forbruk basert på gjennomsnittsverdier:	
Antall diesel generatorer i drift i gjennomsnitt	2,8
Gjennomsnitt per dag	30,8 tonn
Gjennomsnittlig generator belastning	39 %
Gjennomsnittlig totalt effektforbruk	6,4 MW

Prognose verdier baser på foreslåtte tiltak:

Gjennom de forslåtte tiltakene vil en redusere kritikaliteten og kravet til redundans. Dette er forventet å føre til reduksjon i direkte forbruk samt økt effektivitet på generatorene. Følgende reduksjoner er estimert:

Reductions assuming battery reserve:	Effekt
Seawater cooling pumps with VFD control:	468 kW
Only running two freshwater cooling pumps:	128 kW
Reducing seawater service:	310 kW
LED lights	161 kW
Reduce HVAC & seperate VFD windlass	300 kW
Total	1367 kW

Beregnet nytt spesifikt forbruk basert på gjennomsni	ttsverdier:
Nytt beregnet gjennomsnittsforbruk	5,0 MW
Ny beregnet gjennomsnittlig belastning (2 DGs)	43 %
Nytt beregnet daglig forbruk	23,5 tonn
Nytt beregnet årlig forbruk	8 569 tonn
Nytt beregnet totalt NoX utslipp	454 131 kg

Beregnet årlig NoX r	adukcion	141 854 kg
Beregnet arilg NOX r	eauksjon	141 854 Kg

J. Kongsberg Functional Design Document

Kongsberg Maritime

3 POWER PLANT

3.1 Description

To comply with the classification requirement of the drilling platform the electrical power system is split into four sections and each section comprises an engine room, high voltage switchboard room and ship service switchboard room feeding 690V, 440V and 230V distribution. The sections of the electrical power system are placed in the four quadrants of the platform: Port Fwd, Stbd Fwd, Stbd Aft and Port aft.

One generator in each switch board will act as emergency generator. These are generator 2(B), 4(D), 6(F), 8(H) The only difference between the emergency generators and the others are that they will have automatic start up and connection controlled by the switch board in case of PMS fails to start the engine after a black out. This is done with at PMS alive signal from IAS to the above generators.

3.1.1 Port Forward SWBD

- 2 Main Diesel Generators (DG1(A) and DG2(B)) each rated 6144 KVA
- 11 kV Switch Board HS1 with
 - Transfer Circuit Breaker (NO) to HS2
 - Transfer Circuit Breaker (NO) to HS3
 - Azimuth Thruster TR4 Circuit breaker
 - Azimuth Thruster TR7 Circuit Breaker
 - Generator DG1 Circuit Breaker
 - Generator DG2 Circuit Breaker
 - 11KV/690V Ship Service Transformer Circuit Breaker feeder to LS1
 - 11KV/690V Drilling Transformer Circuit Breaker feeder to DSWB1A

3.1.2 Starboard Forward SWBD

- 2 Main Diesel Generators (DG3(C) and DG4(D)) each rated 6144 kVA
- 11 kV Switch Board HS2 with
 - Transfer Circuit Breaker (NO) to HS1
 - Transfer Circuit Breaker (NO) to HS4
 - Azimuth Thruster TR1 Circuit breaker
 - Azimuth Thruster TR6 Circuit Breaker
 - Generator DG3 Circuit Breaker
 - Generator DG4 Circuit Breaker
 - 11KV/690V Ship Service Transformer Circuit Breaker feeder to LS2
 - 11KV/690V Drilling Transformer Circuit Breaker feeder to DSWB1B

3.1.3 Port Aft SWBD

- 2 Main Diesel Generators (DG5(E) and DG6(F)) each rated 6144 kVA
- 11 kV Switch Board HS3 with
 - Transfer Circuit Breaker (NO) to HS1
 - Transfer Circuit Breaker (NO) to HS4
 - Azimuth Thruster TR2 Circuit breaker
 - Azimuth Thruster TR5 Circuit Breaker
 - Generator DG5 Circuit Breaker
 - Generator DG6 Circuit Breaker
 - 11KV/690V Ship Service Transformer Circuit Breaker feeder to LS3
 - 11KV/690V Drilling Transformer Circuit Breaker feeder to DSWB2A

3.1.4 Starboard Aft SWBD

- 2 Main Diesel Generators (DG7(G) and DG8(H)) each rated 6144 kVA
- 11 kV Switch Board HS4 with
 - Transfer Circuit Breaker (NO) to HS2
 - Transfer Circuit Breaker (NO) to HS3
 - Azimuth Thruster TR8 Circuit breaker
 - Azimuth Thruster TR3 Circuit Breaker
 - Generator DG7 Circuit Breaker
 - Generator DG8 Circuit Breaker
 - 11KV/690V Ship Service Transformer Circuit Breaker feeder to LS4
 - 11KV/690V Drilling Transformer Circuit Breaker feeder to DSWB2B

3.1.5 PMS philosophy

The power management system is a function of the Integrated Automation System (IAS). In the event of failure of the IAS system or operator choice the Electric Power System can be controlled through manual controls on the appropriate switch board panels.

Depending on the consequence analysis, environment criteria the power system could be:

- In two splits bus mode, the HV switchboards are interconnected by pairs. The normal configuration for two split bus modes is to have Stbd Fwd (HS2) and Port Fwd (HS1) switch boards interconnected via the bus ties, and Stbd Aft (HS4) and Port Aft (HS3) switch boards interconnected via the bus ties.
- In four splits. Under these conditions each quadrant will operate autonomously.

In case of "Isochronous mode" the PMS system will control the power generation system by starting/stopping diesel generators as the platform load increases or decreases but the load sharing will be independent of the PMS. In case of "Droop mode", the PMS can share the load see 5.4.2 for details.

Locally the Power Plant will synchronize incoming generators onto active bus and load up generators and synchronize bus sections that are being coupled.

In the event that a fault, either electrical or mechanical trips a generator the highest priority (see 5.3) generator will be started by PMS. Further while in two split bus mode and a bus section trip on fault, the PMS system will sectionalize the remaining bus.

The PMS system will provide an effective, coordinated blackout prevention system which will incorporate propulsion drive power limitation and drilling phase-back.

Blackout prevention is essential to maintain the drilling platform position whilst drilling and where load available for shedding would be only a small percentage of platform's load and is therefore not implemented.

Emphasis will be placed on the phase back function of the drilling drives and power limit of thruster drives.

Priority of drilling system or thrusters depends on operational mode for the drilling system (See <u>5.7</u> <u>Blackout Prevention</u>

The PMS system will provide available generator capacity signals for each 690V Switchboard Drilling Transformer Feeder and NOV will use these signals to phase back the drilling load in compliance with available power. The PMS system will also ensure that the azimuth thruster drives will not overload the power system for any bus mode configuration. These signals provide the drives with drive power limitation data based on power available for thrust which the drive converters use to operate within power system limits. This function is active in all thruster activities including DP modes.

3.1.5.1 Functionality

The main functions of the PMS system are listed below (controlled and displayed on VDU):

- Display 11kV and principal 690V switchboards circuit breaker status
- Display drilling switchboard circuit breaker status.
- Manually control opening and closing principle 11kV and 690V switchboard circuit breakers.
- Symmetric/Asymmetric sharing of load between interconnected generators sets when in droop mode.
- Operator initiated starting and stopping of diesel generator sets
- Automatic initiation for starting and connecting diesel generating set on low spinning reserve (Load depending start)
- Automatic initiation for stopping diesel generating set on high spinning reserve (Load Depending stop)
- Set up priorities for starting/stopping diesel generators on falling/rising load (Standby number allocation)
- Operator initiated automatic synchronizing and dead bus bar closing of 11kV bus ties and transfer circuit breakers.
- Automatically restore main 11kV and LV switchboards in the event of a system blackout.
- Sequential restart previously essential running pumps and reconnect essential supplies upon restoration of supply after a blackout.
- Display diesel engine exhaust gas temperature deviation checks.
- Provide a power available analogue signal for each thruster converter to ensure blackout prevention.
- Provide power available analogue signals (Drilling Auxiliary Power Available and Drawworks Power Available) to each NOV DPLS to ensure black out prevention of drilling consumers.
- Control, Monitoring and alarm functions towards power generation and distribution (Total power, available power, each generator power, black-out, voltage, frequency, breaker status, etc)
- Automatic start of stand-by generator due to fault
- Load dependent start/stop control activation
- Power reservation of heavy consumers
- Start blocking of heavy consumers
- Automatic black-out recovery

The PMS will not try to control equipment when the equipment is in local control mode.

3.2 Operation Modes

3.2.1 Configuration of Power Distribution

As explain above, the rig's main electrical power generation system consists of eight (8) diesel generators arranged in four engine rooms and four (4) high voltage switchboards. The two (2) generators in each engine room are powering a dedicated high voltage (11 kV) switchboard.

The high voltage system is powering the various consumers, position keeping systems, drilling system and Emergency systems. The main electrical distribution system has been conceptualized to work with four different voltage levels (11kV, 690V, 440V, 230V) this will offer highest degree of operational flexibility.

Electrical power distribution system has been conceptualized to offer operational flexibility required for DP-3 mode. The rig's power distribution system is able to operate in all three modes of operation (Open ring/No split, two (2) and four (4) split mode), however only 2 and 4 splits shall be used for DP operations. This has been ensured by providing necessary transfer feeders for connecting all four 11 kV switchboards each others. The transfer breakers of high and low voltage switchboards are equipped with synchronizing facility to facilitate synchronization request from local as well as from remote location. Hence the operator has options to operate switchboards sections by configuring operation of transfer feeder to offer a power distribution system that is suitable for both general and DP-3 modes of rig operation. The PMS will automatically control the generation and distribution system dependent upon 11kV switchboard configuration.

These three (3) configurations are:

3.2.2 Power distribution arrangement during "Open ring/No split"

All 11 kV switchboards are connected with transfer feeders (open ring, it is not possible to close all bus-tie breakers). This is a rare operating mode. This mode may be used when rig is at Yard (harbor, shore). No operations are envisaged. The rig may receive power supply from shore connection box. Main generators and shore power can not power the same switchboard at the same time (main power generation can not be in parallel with shore power).

The PMS in this mode control this whole power system as one unit.

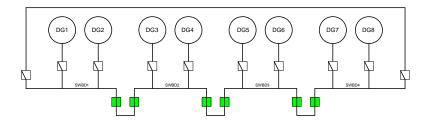
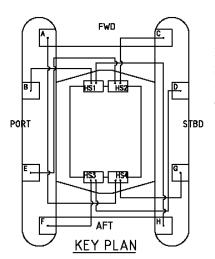


Figure 3-1 No split mode

3.2.3 Operation of Power distribution in "two split"



In case of normal two (2) split power system (HS1-HS2, HS3-HS4 interconnected), the 11 kV SWBD's of two power stations will be inter-connected by using bustie transfer breakers. The Thrusters are supplied according to the diagonal philosophy. See below figure.

The diagonal DP segregation and the 2 split bus configuration are such that each split power system prevents losing more than one thruster on each corner of the rig in worst single failure case. The alternate two split configuration (HS1-HS3, HS2-HS4 interconnected) is also possible but not considered as normal operation in DP3 mode.

The switchboards may be connected to enable more economic and efficient use of the generators to the extent environmental conditions allowing. With two split it is possible to operate with one, two, three or four generators per split unit depending upon load demand. In general there will be at least one generator running per engine room.

The anticipated operations in this mode are:

- Transit
- Drilling or testing operations during fair weather conditions
- Operation with position mooring

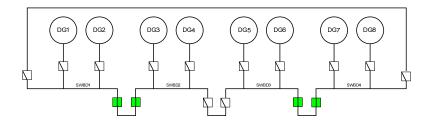


Figure 3-2 Two split operation mode

3.2.4 Operation of Power distribution in 4 splits

During the DP-3 mode of the rig (under harsh weather condition), the power system is divided in four (4) individual units each consisting of two engines connected to one 11 kV Switchboard. Each subsystem caters 25 % capacity of the total power generation capacity installed on rig. Each sub system consists of two (2) generators, one (1) 11 kV main switchboard, two (2) thrusters and associated 690V, 440V & 230V power distribution system equipments (Transformers, MCC and distribution boards).

In order to ensure maximum redundancy all units are operated to act as individual system. There will be one or two generators operating per unit as dictated by the power demand. The anticipated operations in this mode are:

- Drilling or testing operations during harsh weather conditions
- Start up situation (after black out)
- Maintenance operations on the high voltage switch board

In case of DP class 3 each sub system is operated individually. Therefore the worst case failure is the shut down possibility for one unit (i.e. 25% capacity). There is no damage on the other sub systems and 75 % total power will be maintained even if the rig loses one (1) unit due to fire, flooding or any other technical failure

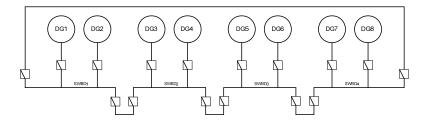


Figure 3-3 Four split mode (Used during DP/POSMOOR operations in harsh weather conditions)

There are Tie breakers on high voltage 11KV, 690V, 440V and 230V low voltage level in order to provide back-up in case of failure of one of the incomers.