

Appendix [A] Table of Results

Method

Isothermic cooling			Time (hh:mm)
T _{start}	20.5 °C		00:42
T _{low}	6 °C		19:00
T _{heat}	25 °C		00:20
Hold time	25		01:00
T _{end}	20.5 °C		00:30

TOTAL TIME = 21 hrs 32 mins

Expt Date	Chemical	C [ppm]	Duration [days]	Temp. [°C]	Vol.[ml]	Rock Speed	Rock Angle	Ball	to = time before hydrate onset temperature [mins]					ta = time before rapid hydrate temperature [mins]					DP = Pressure drop from hydrate formation [bar]					P	Pressurizing	Comments			
									t _{o1}	t _{o2}	t _{o3}	t _{o4}	t _{o5}	Av to	ta1	ta2	ta3	ta4	ta5	Av ta	DP1	DP2	DP3				DP4	DP5	Av.DP
21.03.2011	Luvicap 55W	5000	1	5	20	20	40	Steel	215	253	257	251	328	261	255	256	315	251	328	281	27.2	25.2	24.2	23.7	26.8	25.4	67	Vacuum	
23.03.2011	Luvicap 55W	5000	1	5	20	10	40	Steel	273	239	191	233	245	236	303	272	226	268	283	270	-	-	-	-	-	-	67	30 bar degassing	Test stopped after 951min, no clear DP
18.03.2011	Luvicap 55W	5000	1	6	20	20	40	Steel	392	377	428	427	430	411	455	437	478	473	478	464	22.4	17.6	22.8	18.7	21.3	20.6	67	Vacuum	
28.03.2011	Luvicap 55W	5000	1	7	20	20	40	Steel	504	657	677	871	542	650	542	718	721	932	582	699	17.0	7.2	14.6	11.6	11.1	12.3	67	Vacuum	
29.03.2011	Luvicap 55W	5000	1	7	20	10	40	Steel	630	648	479	586	600	589	704	721	548	652	674	660	10.8	11.4	12.2	9.0	8.0	10.3	67	Vacuum	
02.04.2011	Luvicap 55W	5000	1	7	20	20	25	Steel	703	643	697	679	546	654	773	719	768	749	606	723	12.0	11.0	8.2	11.0	12.2	10.9	68	Vacuum	Test stopped before heating - gives lower DP
03.04.2011	Luvicap 55W	5000	1	7	30	20	40	Steel						> 1132														Vacuum	No hydrates, run for 1132 min
04.04.2011	Luvicap 55W	5000	1	7	10	20	40	Steel	197	226	141	281	208	211	213	238	-	294	226	243	-	-	-	-	-	-	68	Vacuum	No visible ta in cell 3
17.03.2011	Luvicap 55W	5000	1	8	20	20	40	Steel	-	893	-	854	-	874	-	960	-	947	-	954	-	11.1	-	12.1	-	-	68	Vacuum	Only gas hydrates in cell 2 and 4
30.03.2011	Luvicap 55W	5000	1	8	20	20	40	Steel	1037	1025	1094	1054	971	1040	1110	1099	-	1076	1045	1088	-	4.3	-	7.9	9.1	7.1	68	Vacuum	No rapid hydrate formation in cell 2.
24.03.2011	Luvicap 55W	5000	3	9	20	20	40	Steel	1778	1853	1549	1438	1780	1680	1826	1975	1699	1462	1880	1768	10.0	12.2	13.7	13.2	13.1	12.4	68	Vacuum	Test stopped after 3450mins
11.04.2011	Luvicap 55W	5000	1	7	20	20	40	Glass	550	647	574	508	453	546	600	691	660	561	491	601	7.6	8.7	8.4	10.6	6.1	8.3	67	Vacuum	
07.04.2011	Luvicap 55W	1000	1	7	20	20	40	Steel	-	-	-	-	-	-	10	7	13	7	5	8	17.5	14.3	16.4	9.3	19.0	15.3		Vacuum	to happens before 7°C is reached
08.04.2011	Luvicap 55W	10000	1	7	20	20	40	Steel	1043	1243	993	1084	877	1048	1163	1503	1123	1159	997	1189	18.3	17.1	17.9	13.6	17.6	16.9	67	Vacuum	
31.03.2011	Inhibex 101	5000	2	5	20	20	40	Steel	257	218	324	-	455	314	295	214	323	-	459	323	-	-	-	-	-	-	67	Vacuum	
12.04.2011	Inhibex 101	5000	2	7	20	20	40	Steel	-	1023	949	-	1862	1278	-	1030	992	-	1866	1296	-	66.8	68.3	-	68.3	67.8	69	Vacuum	Leakage in cell 4 (1.5 bar pressure drop)
05.04.2011	Inhibex 501	5000	1	7	20	20	40	Steel	-	46	94	130	181	113	-	51	99	134	181	116	-	-	-	-	-	-	69	Vacuum	
06.04.2011	New Luvicap EG	5000	1	7	20	20	40	Steel	40	265	53	182	24	113	-	280	65	192	28	141	-	-	-	-	-	-	68	Vacuum	ta in cell 1 not included in the average.