

**Appendix [B] Percentage Deviation from Average**

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]						
									t <sub>01</sub>	t <sub>02</sub>	t <sub>03</sub>	t <sub>04</sub>	t <sub>05</sub>	Av to	ta1	ta2	ta3	ta4	ta5	Av ta
21.03.2011	Luvicap 55W	5000	1	5	20	20	40	Steel	215	253	257	251	328	261	255	256	315	251	328	281
23.03.2011	Luvicap 55W	5000	1	5	20	10	40	Steel	273	239	191	233	245	236	303	272	226	268	283	270
18.03.2011	Luvicap 55W	5000	1	6	20	20	40	Steel	392	377	428	427	430	411	455	437	478	473	478	464
28.03.2011	Luvicap 55W	5000	1	7	20	20	40	Steel	504	657	677	871	542	650	542	718	721	932	582	699
29.03.2011	Luvicap 55W	5000	1	7	20	10	40	Steel	630	648	479	586	600	589	704	721	548	652	674	660
02.04.2011	Luvicap 55W	5000	1	7	20	20	25	Steel	703	643	697	679	546	654	773	719	768	749	606	723
03.04.2011	Luvicap 55W	5000	1	7	30	20	40	Steel	> 1132											
04.04.2011	Luvicap 55W	5000	1	7	10	20	40	Steel	197	226	141	281	208	211	213	238		294	226	243
17.03.2011	Luvicap 55W	5000	1	8	20	20	40	Steel	-	893	-	854	-	874	-	960	-	947	-	954
30.03.2011	Luvicap 55W	5000	1	8	20	20	40	Steel	1037	1025	1094	1054	971	1040	1110	1099	-	1076	1045	1088
24.03.2011	Luvicap 55W	5000	3	9	20	20	40	Steel	1778	1853	1549	1438	1780	1680	1826	1975	1699	1462	1880	1768
11.04.2011	Luvicap 55W	5000	1	7	20	20	40	Glass	550	647	574	508	453	546	600	691	660	561	491	601
07.04.2011	Luvicap 55W	1000	1	7	20	20	40	Steel	-	-	-	-	-	-	10	7	13	7	5	8
08.04.2011	Luvicap 55W	10000	1	7	20	20	40	Steel	1043	1243	993	1084	877	1048	1163	1503	1123	1159	997	1189
31.03.2011	Inhibex 101	5000	2	5	20	20	40	Steel	257	218	324	-	455	314	295	214	323	-	459	323
12.04.2011	Inhibex 101	5000	2	7	20	20	40	Steel	-	1023	949	-	1862	1278	-	1030	992	-	1866	1296
05.04.2011	Inhibex 501	5000	1	7	20	20	40	Steel	-	46	94	130	181	113	-	51	99	134	181	116
06.04.2011	New Luvicap EG	5000	1	7	20	20	40	Steel	40	265	53	182	24	113	-	280	65	192	28	141
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U

**Diviations from average**

T <sub>01</sub>	T <sub>02</sub>	T <sub>03</sub>	T <sub>04</sub>	T <sub>05</sub>
17.6	3.0	1.5	3.8	-25.8
-15.6	-1.2	19.1	1.4	-3.7
4.6	8.2	-4.2	-3.9	-4.7
22.5	-1.0	-4.1	-34.0	16.6
-7.0	-10.1	18.6	0.4	-1.9
-7.6	1.6	-6.6	-3.9	16.5
6.5	-7.3	33.0	-33.4	1.2
	-2.2		2.2	
0.2	1.4	-5.2	-1.4	6.6
-5.9	-10.3	7.8	14.4	-6.0
-0.7	-18.4	-5.1	7.0	17.1
0.5	-18.6	5.2	-3.4	16.3
18.0	30.5	-3.3		-45.1
	20.0	25.7		-45.7
	59.2	16.6	-15.3	-60.5
64.5	-134.9	53.0	-61.3	78.7

Ta1	Ta2	Ta3	Ta4	Ta5	Av. To	Av. To
9.3	8.9	-12.1	10.7	-16.7	10.3	11.5
-12.1	-0.6	16.4	0.9	-4.7	8.2	6.9
2.0	5.9	-3.0	-1.9	-3.0	5.1	3.1
22.5	-2.7	-3.1	-33.3	16.7	15.7	15.7
-6.7	-9.3	16.9	1.2	-2.2	7.6	7.3
-6.9	0.6	-6.2	-3.6	16.2	7.2	6.7
12.3	2.0		-21.1	6.9	16.3	10.6
	-0.7		0.7		2.2	0.7
-2.1	-1.1		1.1	3.9	3.0	2.0
-3.3	-11.7	3.9	17.3	-6.3	8.9	8.5
0.1	-15.1	-9.9	6.6	18.2	9.6	10.0
-19.0	16.7	-54.8	16.7	40.5	0.0	29.5
2.2	-26.4	5.6	2.5	16.1	8.8	10.6
8.6	33.7	-0.1		-42.2	24.2	21.1
	20.5	23.5		-44.0	30.5	29.3
	56.1	14.8	-15.3	-55.7	37.9	35.5
	-98.2	54.0	-35.9	80.2	78.5	67.1

Maximum divagation	-134.9 %
Total	148 cells
Divagation of more than 10 % COUNTIFS(V3:AF64;"<10";V3:AF64;">10")	79 46.6 %
Divagation of more than 20 % COUNTIFS(V3:AF64;"<20";V3:AF64;">20")	115 22.3 %
Divagation of more than 30 % COUNTIFS(V3:AF64;"<30";V3:AF64;">30")	123 16.9 %
Average divagation AVERAGE(AA3:AA64;AG7:AG64)	16.2 %