

FORMATION PRESSURE WORKSHEET 2E

Gas & Condensate sampling run 2

Well :		8305/8-1		Rig :		Scarabeo 5		Date :		13/02/00		Conveyance		Wireline						
Pressure Units :		Bars		RKB-MSL		25 m		MSL-SBed		837 m		Witnessed by : Williams, Mangset, Kjellin, Skottlan								
Toolstring: PC-HY-SP(MART)-SP(STD)-OFA-PO-IO-PO-SC3-SC2-SC1-MS2(2X250,4X450)-MS1(1X250,5X450)																				
Test No.	Depth mMD	Depth mTVD	Initial Hydrostatic Pressure		Formation Pressure		Final Hydrostatic Pressure			Time		Formation Pressure sg EMD	Fluid Gradient g/cc	Mud Pressure sg EMD	Test Temp degC	Good Data? Y/N	Quartz Mobility md/cp	Remarks	Pre Test Vol	
			Quartz	Strain	Quartz	Strain	Quartz	Strain	Diff	Set	Retract									
1	2 914,0	2 913,9	371,71	371,29	289,413	289,18			371,709	13 25	18 35	1,012	#REF!	1,300	87,3	Y	65,6	Sampling point	20	
2	2 922,5	2 922,4	372,63	372,13				372,62	372,06	0,01	18 51	15 58	0,000	#REF!	1,300	86,7	N	74,7	Very tight, Supercharged	20
3	2 922,5	2 922,4	372,57	372,04					372,57		19 15	19 17	0,000	#REF!	1,300	86,9	N	9,5	Very tight, Supercharged	20
4	2 922,0	2 921,9	372,46	372,96					372,461		19 22	19 24	0,000	#REF!	1,299	87	N	16,5	Very tight, Supercharged	20
5	2 922,0	2 921,9	372,53	373,08	289,643	290,25		372,52	373,06	0,01	19 32	19 36	1,013	#REF!	1,300	86,6	Y	13	Very tight, Standard probe	20
6	2 921,8	2 921,7	379,49	371,97				372,42	371,94	7,07	19 48	19 55	0,000	#REF!	1,324	87,6	N	4,7	Very tight, Supercharged	20
7	2 922,0	2 921,9	372,52	371,98					372,52		20 15	20 20	0,000	#REF!	1,300	88,3	N	9,2	Very tight, Supercharged	20
8	2 921,9	2 921,8	372,52	372,01				372,49	372,06	0,01	20 28	20 30	0,000	#REF!	1,300	89,4	N	14,2	Very tight, Supercharged	20
9	2 922,0	2 921,9	372,58	372,1					372,58		20 38		0,000	#REF!	1,300	90,3	N	90,3	Supercharged	20
10	2 908,0	2 907,9								0	03 40	03 42	0,000	#REF!	0,000	84,6	N		Lost seal	20
11	2 908,0	2 907,9								0	03 42	03 44	0,000	#REF!	0,000	84,6	N		Lost seal	3,3
12	2 908,2	2 908,1			289,326					0	04 00	12 00	0,000	#REF!	0,000	87,3	Y	161,8	Sampling point	20
AVERAGE												NB Fmtn Press sg calculated from RKB		#REF!		Page 1 of				

FORMATION PRESSURE WORKSHEET **RUN 3F** **Pressure profiling and water sampling**

Well: 530578-1 Rig: Scarabeo 5 Date: 18 Aug 2000 Draw down limited tests
 Pressure Units: Bars RKB-MSL: 25 m MSL-SBed: 837 m Witnessed by: Williams, Mangset, Kjellin
 Toolstring: PC-HY-SP(Mart)-SP(STD)-OFA-PO-IO-PO-SC2-SC1-MS1(6x450cc) Conveyance: Wireline 250 bar dd & 35 cc/min

Test No.	Depth		Initial Hydrostatic Pressure		Formation Pressure		Final Hydrostatic Pressure			Time		Formation Pressure	Fluid Gradient	Mud Pressure	Test Temp	Good Data?	Quartz Mobility	Remarks	Pre Test Vol
	mMD	mTYD	Pressure		Quartz	Strain	Quartz	Strain	Diff	Set	Retract	sg EMD	g/cc	sg EMD	degC	Y/N	ml/ccp		
	RKB	RKB	Quartz	Strain	Quartz	Strain	Quartz	Strain	Diff										
1	3 010,6	3 010,5	387,13	387,54	300,064	387,6	387,13	387,6	-0,002	22:40	22:44	1,016		1,311	88,1	Y	25,2		20
2	3 005,0	3 004,9	386,44	386,93	298,211	298,77	386,43	386,93	0,006	22:51	22:58	1,012	3,373	1,311	88,1	Y	52,1		20
3	3 001,6	3 001,5	386,02	386,5			386,00	385,54	0,019	23:04	23:07	0,000	894,079	1,311	88,1	N	0,6	Tight	2,8
4	3 001,5	3 001,4	386,04	386,48			386,11		-0,068	23:16	23:20	0,000	0,000	1,311	88,1	N	2,1	Tight	1,8
5	2 997,0	2 996,9	385,48	385,96	297,382	297,85	385,45	385,974	0,023	23:27	23:30	1,011	673,848	1,311	88,2	Y			20
6	2 994,0	2 993,9	385,09	385,56	297,040	297,57	385,09	385,95	0,005	23:34	23:39	1,011	1,162	1,311	88,3	Y	53,2		20
7	2 992,3	2 992,2	384,89	385,37	296,838	297,35	384,91	385,36	-0,022	23:44	23:50	1,011	1,211	1,311	88,2	Y	91,9		20
8	2 991,2	2 991,1	384,76	385,23	296,748	297,27	384,81	385,12	-0,048	23:54	23:58	1,011	0,834	1,311	88,2	Y	33,7		20
9	2 988,8	2 988,7	384,47	384,96	296,451	296,99	384,54	384,98	-0,071	00:02	00:07	1,011	1,261	1,311	88,1	Y	28,9		20
10	2 985,7	2 985,6	384,09	384,56	296,074	296,62	384,15	384,55	-0,059	00:13	00:20	1,011	1,240	1,311	88,0	Y	5,2		20
11	2 984,2	2 984,1	383,89	384,37			383,91	384,39	-0,023	00:25	00:27	0,000	2 012,058	1,311	82,7	N	0,9	Tight	1,8
12	2 980,5	2 980,4	383,37	383,85			383,46	383,93	-0,088	00:32	00:36	0,000	0,000	1,311	82,6	N	0,8	Tight	1,8
13	2 980,0	2 979,9	383,38	383,85	295,401	295,94	383,39	383,85	-0,006	00:39	00:43	1,010	2 022,448	1,311	82,5	Y	59,3		20
14	2 978,5	2 978,4	383,13	383,6	295,246	295,8	383,22	383,67	-0,09	00:46	00:51	1,010	1,053	1,311	82,3	Y	26,2		20
15	2 977,5	2 977,4	383,06	383,51	295,145	295,69	383,05	383,52	0,007	00:58	01:05	1,010	1,030	1,311	82,1	Y	5,9		20
16	2 975,8	2 975,7	382,83	383,31	294,984	295,52	382,84	383,29	-0,008	01:10	01:14	1,010	0,965	1,311	81,9	Y	36,1		20
17	2 974,0	2 973,9	382,60	383,09	294,822	295,35	382,62	383,09	-0,014	01:22	01:25	1,011	0,917	1,311	81,8	Y	32,9		20
18	2 972,5	2 972,4	382,42	382,88	294,671	295,2	382,42	382,88	-0,006	01:28	01:35	1,011	1,048	1,311	81,6	Y	134,4		20
19	2 969,0	2 968,9	381,97	382,42	294,316	294,84	382,00	382,49	-0,026	01:42	01:46	1,010	1,064	1,311	81,4	Y	93		20
20	2 967,0	2 966,9	381,75	382,21	294,145	294,67	381,76	382,2	-0,01	01:52	01:58	1,011	0,972	1,311	81,2	Y	141,5		20
21	2 964,5	2 964,4	381,36	381,82	293,894	294,41	381,37	381,83	-0,008	02:08	02:11	1,011	1,023	1,311	81,0	Y	19,1		20
22	2 963,0	2 962,9	381,15	381,6			381,20	381,62	-0,044	02:16	02:19	0,000	1 997,241	1,311	80,8	N	10	limited draw down - reject	1,7
23	2 963,5	2 963,4	381,21	381,66	293,803	294,31	381,26	381,71	-0,052	02:27	02:31	1,011	1 989,867	1,311	80,7	Y	33		20
24	2 960,2	2 960,1	380,82	381,26			380,84	381,26	-0,02	02:35	02:38	0,000	1 807,656	1,311	80,4	N	1,2	tight at top of sand	1,6
25	2 960,6	2 960,5	380,84	381,27	293,524	294,03	380,86	381,31	-0,016	02:48	02:52	1,011	7 480,224	1,311	80,4	Y	79,9		20
26	2 958,5	2 958,4	380,58	381,03			380,62	381,03	-0,045	02:56	02:58	0,000	1 424,806	1,311	80,6	N	1,8	tight - bed too thin to locate	1,7
27	2 957,0	2 956,9	380,37	380,81	293,088	293,59	380,43	380,87	-0,055	03:01	03:07	1,010	1 991,764	1,311	80,3	Y	42,7	Break in gradient - Top Josalfare ?	20

FORMATION PRESSURE WORKSHEET **RUN 3F** **Pressure profiling and water sampling**

Well: 63054-1 Rig: Scarabeo 5 Date: 19 Aug 2000 Draw down limited tests
 Pressure Units: Bars RKB-MSL: 25 m MSL-SBad: 837 m Witnessed by: Williams, Mengset, Kjellin
 Toolstring: PC-HY-SP(Mar)-SP(STD)-OFA-PO-IO-PO-SC2-SC1-MS1(6x450cc) Conveyance: Wireline 250 bar dd & 35 cc/min

Test No.	Depth		Initial Hydrostatic Pressure		Formation Pressure		Final Hydrostatic Pressure			Time		Formation Pressure sg EMD	Fluid Gradient g/cc	Mud Pressure sg EMD	Test Temp degC	Good Data? Y/N	Quartz Mobility ml/ccp	Remarks	Pre Test Vol
	mMD	mTVD	Pressure		Quartz	Strain	Quartz	Strain	Diff	Set	Retract								
	RKB	RKB	Quartz	Strain	Quartz	Strain	Quartz	Strain	Diff	Set	Retract								
28	2 955,8	2 955,7	380,27	380,72	292,960	293,46	380,30	380,72	0,035	03 12	03 17	1,010	1,087	1,311	80,2	Y	45		20
29	2 954,0	2 953,9	380,05	380,48	292,781	293,28	380,05	380,5	0,003	03 24	03 29	1,010	1,014	1,311	80,1	Y	55,9		20
30	2 953,0	2 952,9	379,88	380,31	292,688	293,19	379,92	380,33	0,038	03 33	03 38	1,010	0,948	1,311	80,1	Y	35,9		20
31	2 951,8	2 951,7	379,77	380,18	292,580	293,07	379,73	380,17	0,04	03 42	03 49	1,010	0,917	1,311	80,0	Y	21,9		20
32	2 947,5	2 947,4	379,19	379,61	292,064	292,56	379,18	379,63	0,006	03 56	04 02	1,010	1,223	1,311	80,0	Y	133,1		20
33	2 942,5	2 942,4	378,52	378,95	291,587	292,08	378,55	379,02	0,032	04 07	04 11	1,010	0,977	1,311	79,9	Y	316		20
34	2 936,0	2 935,9	377,66	378,12	290,961	291,47	377,69	378,13	0,028	04 15	04 21	1,010	0,982	1,311	79,7	Y	63		20
35	2 934,0	2 933,9	377,38	377,83	290,737	291,24	377,40	377,84	0,019	04 27	04 31	1,010	1,142	1,311	79,4	Y	78,2		20
36	2 931,0	2 930,9	376,98	377,42	290,486	290,97	377,02	377,43	0,038	04 36	04 45	1,010	0,853	1,311	79,3	Y	26,6		20
37	2 929,0	2 928,9	376,74	377,16	290,380	290	376,75	377,2	0,01	04 52	04 58	1,010	0,540	1,311	79,0	N	17,5	Low perm	1,6
38	2 928,0	2 927,9	376,62	377,04	290,223	290,68	376,63	377,02	0,006	05 03	05 07	1,010	1,000	1,311	79,0	Y	45		20
39	2 927,0	2 926,9	376,47	376,87	290,122	290,58	376,50	376,91	0,032	05 13	05 17	1,010	1,030	1,311	79,0	Y	53		20
40	2 926,0	2 925,9	376,37	376,75	290,031	290,49	376,36	376,76	0,013	05 22	05 28	1,010	0,928	1,311	79,1	Y	39,5		20
41	2 925,0	2 924,9	376,22	376,62	290,087	290,55	376,25	376,61	0,028	05 33	05 41	1,010	0,571	1,311	79,1	N	5,1	Supercharged	20
42	2 923,5	2 923,4	376,02	376,39	289,798	290,25	376,03	376,42	0,012	05 45	05 54	1,010	1,054	1,311	79,1	Y	76,8	Autoreset twice - inverted build up	20
43	2 923,0	2 922,9	375,99	376,36	289,757	290,21	375,97	376,39	0,021	06 03	06 08	1,010	0,836	1,311	79,0	Y	57,3	Autoreset twice - inverted build up	20
44	2 922,7	2 922,6	375,90	376,31	289,743	290,19	375,91	376,3	0,01	06 14	06 20	1,010	0,478	1,311	79,0	Y	27,3	Sped up drawn down rate	20
45	2 922,5	2 922,4	375,88	376,23	289,734	290,19	375,81	376,2	0,073	06 26	06 32	1,010	0,459	1,311	79,0	Y	42,3		20
46	2 922,1	2 922,0	375,80	376,18	289,671	290,12	375,80	376,18	0,003	06 38	06 45	1,010	1,006	1,311	79,1	Y	83,9		20
47	2 921,8	2 921,7	375,75	376,14	289,659	290,11	375,76	376,13	0,011	06 50	06 58	1,010	0,408	1,311	79,1	Y	46,9		20
48	2 921,5	2 921,4	375,71	376,09	289,674	290,12	375,68	376,08	0,03	07 04	07 13	1,010	0,810	1,311	79,2	Y	61,3	auto-reset - PS module oil leak ?	20
49	2 921,2	2 921,1	375,67	376,04	289,687	290,12	375,64	376,03	0,025	07 20	07 27	1,010	0,442	1,311	79,2	Y	21,2		20
50	2 921,0	2 920,9	375,60	375,97	289,680	290,12	375,63	376	0,033	07 35	07 42	1,010	0,357	1,311	79,4	Y	14,9		20
51	2 919,0	2 918,9	375,33	375,71	289,616	290,06	375,37	375,71	0,036	07 52	08 00	1,010	0,328	1,311	79,3	Y	229		20
52	2 917,5	2 917,4	375,17	375,54	289,589	290,03	375,16	375,54	0,013	08 10	08 16	1,010	0,193	1,311	79,3	Y	441,7		20
	2 914,0	2 913,9								08:25		#VALUE!	#VALUE!	0,000		N		Probe hydraulic leak / use other probe	
53	2 914,0	2 913,9	374,64	375,01	289,601	290,03	374,66	375,04	0,02	09 10	09 20	1,010	0,035	1,311	79,1	Y		Increase hydraulic duty cycle for PS	20

FORMATION PRESSURE WORKSHEET

RUN 3F

Pressure profiling and water sampling

Well: 6305/8-1 Rig: Scarabeo 5 Date: 19 Aug 2000 Draw down limited tests
 Pressure Units: Bar RKB-MSL: 25 m MSL-Sub: 837 m Witnessed by: Williams, Mangset, Kjellin
 Toolstring: PC-HY-SP(Mart)-SP(STD)-OFA-PO-IO-PO-SC2-SC1-MS1(6x450cc) Conveyance: Wireline 250 bar dd & 35 cc/min

Test No.	Depth mMD	Depth mTYD	Initial Hydrostatic Pressure		Formation Pressure		Final Hydrostatic Pressure			Time		Formation Pressure sg EMD	Fluid Gradient g/cc	Mud Pressure sg EMD	Test Temp degC	Good Data? Y/N	Quartz Mobility md/cp	Remarks	Pre Test Vol
			Quartz	Strain	Quartz	Strain	Quartz	Strain	Diff	Set	Retract								
	2 914,0	2 913,9			Guage offsets		-0,91	-0,34	0,911	08:25		#VALUE!	#VALUE!	0,000	N		Probe hydraulic leak / use other probe		
53	2 917,5	2 917,4	374,08		289,589	290,03	374,09	375,04	-0,012	08:42	00:00	1,012	#VALUE!	1,307	79,0	N	0	Use Martineau with offset	20
54	2 914,0	2 913,9							0	00:00	00:00	0,000	846,075	0,000	0,0		0		0
55	2 912,5	2 912,4							0	00:00	00:00	0,000	0,000	0,000	0,0		0		0
56	2 908,0	2 907,9							0	00:00	00:00	0,000	0,000	0,000	0,0		0		0
57	2 905,5	2 905,4							0	00:00	00:00	0,000	0,000	0,000	0,0		0		0
58	2 901,5	2 901,4							0	00:00	00:00	0,000	0,000	0,000	0,0		0		0
									0			#DIV/0!	0,000	#DIV/0!					
53	2 917,5	2 917,4	374,99	374,72	290,500	290,37	375,00	374,7	-0,012	08:42		1,015	1,015	1,310	79,0	n		Slow build up in gas with Martineau	20
54	2 914,0	2 913,9							0			0,000	846,075	0,000	n				
55	2 912,5	2 912,4							0			0,000	0,000	0,000	n				
56	2 908,0	2 907,9							0			0,000	0,000	0,000	n				
57	2 905,5	2 905,4							0			0,000	0,000	0,000	n				
58	2 901,5	2 901,4							0			0,000	0,000	0,000	n				