

Title: Final Well Report 7220/6-1  
Section A

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### 3.2.5 MDT Pressures and Samples

Schlumberger's Modular Dynamic Tester (MDT) tool with Dual Packer option, (as an alternative to the large diameter probe), was used in both Runs 1A and 2B where both formation pressures and fluid samples were obtained. Pressure results from Run 1A are summarised in Table 3.2-6:

Depth		Test No.	File No.	Formation Pressure [bar]	Mud pressure Before [bar]	Mud pressure After [bar]	Mobility [mD/cp]	Remarks
MD RKB [m.]	TVD MSL [m.]							
1139.2	1114.1	13	97		130.575	130.548		Lost Seal
1144.3	1119.2	12	96		131.156	131.037		Dry Test
1146.3	1121.2	11	95		131.246	131.250		Lost Seal
1148.8	1123.7	29	131	110.800	131.320	131.300	2.15	ok
1149.1	1124.0	10	94		131.633	131.546		Dry Test
1151.8	1126.7	20	112	110.884	131.757	131.747	6.10	ok
1152.6	1127.5	9	93		132.077	131.996		Dry Test
1155.5	1130.4	8	92		132.540	132.353		Dry Test
1156.2	1131.1	28	130		132.235	131.957		Dry Test
1157.2	1132.1	27	129		132.784	132.135		Dry Test
1160.0	1134.9	7	91		132.903	133.058		Dry Test
1163.0	1137.9	6	90		133.323	133.237		Dry Test
1164.1	1139.0	19	111		133.169	133.075		Dry Test
1164.9	1139.8	18	110	120.890	133.360	133.140	1.00	Supercharged
1168.8	1143.7	26	128		133.795	133.520		Dry Test
1171.0	1145.9	17	108	121.247	134.172	133.867	0.07	Supercharged
1177.6	1152.5	24	125		134.830	134.471		Dry Test
1177.8	1152.7	25	127		134.764	134.567		Dry Test
1178.0	1152.9	16	107		135.159	134.830		Dry Test
1184.5	1159.4	37	146	115.400	135.610	115.400	23.00	ok
1184.6	1159.5	21	122		135.699	135.176		Dry Test
1184.6	1159.5	4	88	115.580	135.920	135.740	15.91	ok
1185.0	1159.9	36	145		135.623	135.591		Dry Test
1185.0	1159.9	32	138		135.737	135.587		Dry Test
1185.1	1160.0	22	123		135.580	135.459		Dry Test
1185.5	1160.4	35	144		135.754	135.601		Dry Test
1185.6	1160.5	23	124	115.606	135.579	135.520	19.35	ok
1185.6	1160.5	30	136		136.320	108.650		Dry Test
1186.1	1161.0	31	137		135.819	135.837		Lost Seal
1186.5	1161.4	33	140		135.912	135.837		Dry Test
1188.0	1162.9	15	106	115.646	136.272	135.971	0.14	ok
1189.9	1164.8	2	86	117.008	136.593	136.404	0.06	Supercharged
1191.8	1166.7	1	85	115.922	137.158	136.751	16.27	ok
1191.8	1166.7	34	141	115.760	136.940	115.760	4.61	ok

Table 3.2-6 MDT pressure tests, Run 1A

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Depth		Test No.	File No.	Formation Pressure [bar]	Mud pressure Before [bar]	Mud pressure After [bar]	Mobility [mD/cp]	Remarks
MD RKB [m.]	TVD MSL [m.]							
1150.0	1124.9	30	292		128.950	128.920		Dry Test
1151.5	1126.4	43	322	111.251				ok. Dual Packer
1184.6	1159.5	29	291		132.770	132.690		Dry Test
1201.8	1176.7	28	290	116.730	134.490	134.480	0.60	ok
1232.0	1206.9	37	304		137.720	137.660		Dry Test
1232.3	1207.2	40	305		137.820	137.980		Dry Test
1235.0	1209.9	41	314	120.763				ok. Dual Packer
1235.5	1210.4	42	316	120.780				ok. Dual Packer
1235.5	1210.4	24	289	121.960	138.040	138.150	0.60	Supercharged
1253.7	1228.6	19	288		140.000	140.010		Dry Test
1268.5	1243.4	17	287		141.620	141.600		Dry Test
1272.0	1246.9	16	286	124.520	142.000	141.990	9.90	ok
1288.4	1263.3	14	283		143.830	143.910		Dry Test
1289.5	1264.4	13	282		143.800	143.860		Dry Test
1302.5	1277.4	11	281		145.260	145.200		Dry Test
1316.5	1291.4	34	298		146.757	146.753		Dry Test
1321.5	1296.4	31	297		147.380	147.340		Dry Test
1336.0	1310.9	35	300	131.754		148.751		ok. Dual Packer
1338.0	1312.9	9	280	131.647	149.094	149.021	4.21	ok
1347.9	1322.8	8	279	132.732	150.091	150.086	2.46	ok
1363.1	1338.0	7	278	137.080	151.690	151.680	1.30	Supercharged
1377.1	1352.0	6	277	135.987	153.199	153.175	4.90	ok
1393.5	1368.4	5	276	137.956	155.013	154.919	0.98	ok
1422.2	1397.1	4	275	141.011	157.995	157.985	10.23	ok
1430.2	1405.1	3	274	142.144	159.012	158.671	1.63	ok
1465.0	1439.9	2	273	145.767	162.698	162.669	87.92	ok
1480.5	1455.4	1	271	147.567	164.461	164.403	3.79	ok

Note: The four pressure tests made with the Dual Packer utilise a different quartz gauge that does not provide a mobility assessment.

Table 3.2-7 MDT pressure tests, Run 2B

Nine fluid samples at four depth levels were recovered from Runs 1A and 2B as summarised in Table 3.2-8. Note that traces of oil were reported in the 10.5 litre sample at 1184.5 m MD RKB.

Depth		MDT Run No.	MDT Samples / Chamber Volumes	Fluid Analysis
MD RKB [m.]	TVD MSL [m.]			
1151.5	1126.4	2B	2 x 450cc	Water
1184.5	1159.4	1A	2 x 450cc + 1 x 10.5 litre	Water + traces of oil in the 10.5 litre sample
1338.0	1312.9	2B	1 x 10.5 litre	Water
1377.1	1352.0	2B	3 x 450cc	Water

Table 3.2-8 MDT samples

## DAILY MUD PROPERTIES:RHEOLOGY PARAMETERS

Well: 7220/6-1 PO: 1

Hole section : 9 7/8"

## WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings							Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6						3
2005-01-18		0	SEA WATER				0	0	0	0	0	0	0						
2005-01-19		0	SEA WATER				0	0	0	0	0	0	0						
2005-01-20		0	SEA WATER				0	0	0	0	0	0	0						
2005-01-21		0	SEA WATER	112.0	1.05	15.0	0	0	0	0	0	0	0						
2005-01-22		0	SEA WATER		1.25		72	52	44	34	0	0	14	11	50.0	20.0	16.0	12.0	16.0
2005-01-23		0	SEA WATER		1.25		72	52	44	34	0	0	14	11	50.0	20.0	16.0	6.0	8.0
2005-01-24		0	SEA WATER		1.25		72	52	43	34	0	0	14	11	50.0	20.0	16.0	6.0	8.0

Hole section : 36"

## WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings							Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6						3
2005-01-25		0	SEA WATER		1.21		53	38	32	24	0	0	9	8	50.0	15.0	11.5	5.0	7.0
2005-01-26		0	SEA WATER		1.21		53	38	32	24	0	0	9	8	50.0	15.0	11.5	5.0	7.0
2005-01-27		0	SEA WATER		1.21		53	38	32	24	0	0	9	8	50.0	15.0	11.5	5.0	7.0
2005-01-28		0	SEA WATER		1.21		40	29	23	18	0	0	6	5	50.0	11.0	9.0	3.0	4.0
2005-01-29		0	SEA WATER		1.21		44	32	27	20	0	0	9	8	50.0	12.0	10.0	4.0	5.0

Hole section : 26"

## WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings							Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6						3
2005-01-30		0	SEA WATER		1.21		44	32	27	20	0	0	9	8	50.0	12.0	10.0	4.0	5.0
2005-01-31		0	SEA WATER		1.21		44	32	27	20	0	0	9	8	50.0	12.0	10.0	4.0	5.0
2005-02-01		0	SEA WATER		1.21		44	32	27	20	0	0	9	8	50.0	12.0	10.0	4.0	5.0
2005-02-02		0	SEA WATER		1.09		53	38	32	23	0	0	9	8	50.0	15.0	11.5	4.0	5.5
2005-02-03		0	SEA WATER		1.09		53	38	32	23	0	0	9	8	50.0	15.0	11.5	4.0	5.5
2005-02-04		0	SEA WATER		1.09		53	38	32	23	0	0	9	8	50.0	15.0	11.5	4.0	5.5
2005-02-05		0	SEA WATER		1.09		53	38	32	23	0	0	9	8	50.0	15.0	11.5	4.0	5.5
2005-02-06		0	SEA WATER		1.09		53	38	32	23	0	0	9	8	50.0	15.0	11.5	4.0	5.5
2005-02-07	470	470	SEA WATER	70.0	1.09		44	31	26	19	0	0	7	5	50.0	13.0	9.0	4.0	5.0
2005-02-08	547	547	SEA WATER	87.0	1.09	15.0	52	38	32	24	0	0	9	8	50.0	14.0	12.0	4.0	6.0

## DAILY MUD PROPERTIES:RHEOLOGY PARAMETERS

Well: 7220/6-1 PO: 1

Hole section : 17 1/2"

WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings								Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]
	MD	TVD					600	300	200	100	60	30	6	3					
2005-02-09	547	547	SEA WATER	87.0	1.09	15.0	52	38	32	24	0	0	9	8	50.0	14.0	12.0	4.0	6.0
2005-02-10	547	547	SEA WATER	87.0	1.09	15.0	52	38	32	24	0	0	9	8	50.0	14.0	12.0	4.0	6.0
2005-02-11	547	547	SEA WATER	87.0	1.09	15.0	52	38	32	24	0	0	9	8	50.0	14.0	12.0	4.0	6.0
2005-02-12	547	547	SEA WATER	87.0	1.09	15.0	52	38	32	24	0	0	9	8	50.0	14.0	12.0	4.0	6.0
2005-02-13	547	547	SEA WATER	87.0	1.09	15.0	52	38	32	24	0	0	9	8	50.0	14.0	12.0	4.0	6.0
2005-02-14		0	SEA WATER				0	0	0	0	0	0	0	0					

Hole section : 12 1/4"

WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings								Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]
	MD	TVD					600	300	200	100	60	30	6	3					
2005-02-15 23:59	664	664	KCL/POLYMER	75.0	1.20	16.0	54	40	34	25	0	0	10	8	50.0	14.0	13.0	5.0	6.0
2005-02-16	749	749	KCL/POLYMER	79.0	1.21	18.0	55	41	33	25	0	0	10	8	50.0	14.0	13.5	5.0	8.0
2005-02-17	749	749	KCL/POLYMER	81.0	1.21	15.0	56	40	32	25	0	0	10	8	50.0	16.0	12.0	5.0	8.0
2005-02-18	749	749	SEA WATER	80.0	1.21	15.0	55	41	32	24	0	0	15	12	50.0	14.0	13.5	5.0	8.0
2005-02-19	746	746	SEA WATER	80.0	1.21	15.0	56	40	32	25	0	0	15	12	50.0	16.0	12.0	5.0	8.0
2005-02-20	746	746	SEA WATER	80.0	1.21	15.0	55	40	32	24	0	0	15	12	50.0	15.0	12.5	5.0	8.0
2005-02-21	760	760	SEA WATER	83.0	1.21	15.0	57	42	33	25	0	0	16	12	50.0	15.0	13.5	6.0	9.0
2005-02-22	1091	1091	SEA WATER	78.0	1.21	19.0	56	42	36	27	0	0	12	10	50.0	14.0	14.0	6.5	12.0
2005-02-23	1130	1130	SEA WATER	78.0	1.21	15.0	55	41	36	27	0	0	13	10	50.0	14.0	13.5	6.0	11.0
2005-02-24	1130	1130	SEA WATER	78.0	1.21		56	41	36	27	0	0	13	10	50.0	15.0	13.0	6.0	11.0
2005-02-25	1130	1130	SEA WATER	78.0	1.21		55	41	36	27	0	0	13	10	50.0	14.0	13.5	6.0	11.0
2005-02-26	1130	1130	SEA WATER	78.0	1.21		56	41	36	27	0	0	13	10	50.0	15.0	13.0	6.0	11.0

Hole section : 8 1/2"

WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings								Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]
	MD	TVD					600	300	200	100	60	30	6	3					
2005-02-27	1130	1130	SEA WATER	78.0	1.21		56	42	36	28	0	0	11	10	50.0	14.0	14.0	4.5	8.5
2005-02-28	1130	1130	SEA WATER	78.0	1.21		56	42	36	28	0	0	11	10	50.0	14.0	14.0	4.5	8.5
2005-03-01	1148	1148	SEA WATER	155.0	1.14	13.5	55	50	44	41	0	0	33	32	50.0	5.0	22.5	17.5	30.0
2005-03-02	1149	1149	SEA WATER	145.0	1.14		47	38	33	31	0	0	28	27	50.0	9.0	14.5	15.0	40.0
2005-03-03	1167	1167	SEA WATER	123.0	1.14	12.2	50	40	35	34	0	0	28	28	50.0	10.0	15.0	15.0	42.0
2005-03-04	1172	1172	SEA WATER	115.0	1.14	12.0	48	37	32	27	0	0	24	24	50.0	11.0	13.0	12.0	38.0
2005-03-05	1197	1197	SEA WATER	130.0	1.14	9.0	49	37	30	25	0	0	23	23	50.0	12.0	12.5	10.0	38.0
2005-03-06	1197	1197	SEA WATER	110.0	1.14	12.0	50	36	30	25	0	0	23	23	50.0	14.0	11.0	10.0	36.0

## DAILY MUD PROPERTIES:RHEOLOGY PARAMETERS

Well: 7220/6-1

PO: 1

Hole section : 8 1/2"

## WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings							Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6						3
2005-03-07	1197	1197	SEA WATER	110.0	1.14	12.0	50	36	30	25	0	0	23	23	50.0	14.0	11.0	10.0	36.0
2005-03-08	1197	1197	SEA WATER	120.0	1.14	8.0	44	30	25	19	0	0	15	15	50.0	14.0	8.0	8.0	31.0
2005-03-09	1204	1204	SEA WATER	105.0	1.14	8.0	51	36	31	25	0	0	22	22	50.0	15.0	10.5	11.0	44.0
2005-03-10	1204	1204	SEA WATER	165.0	1.14	10.0	54	42	37	33	0	0	30	30	50.0	12.0	15.0	17.0	51.0
2005-03-11	1390	1390	SEA WATER	200.0	1.15	15.0	64	49	43	38	0	0	36	36	50.0	15.0	17.0	22.0	26.0
2005-03-12		0	SEA WATER				0	0	0	0	0	0	0	0					
2005-03-13	1428	1428	SEA WATER	160.0	1.14	7.0	54	42	38	32	0	0	30	30	50.0	12.0	15.0	15.0	36.0
2005-03-14	1428	1428	SEA WATER	155.0	1.14	7.0	51	39	34	32	0	0	30	29	50.0	12.0	13.5	16.0	28.0
2005-03-15	1540	1540	SEA WATER	152.0	1.14		62	47	42	35	0	0	32	31	50.0	15.0	16.0	16.0	33.0
2005-03-16	1540	1540	SEA WATER	148.0	1.14		63	48	43	36	0	0	32	31	50.0	15.0	16.5	17.0	34.0
2005-03-17	1540	1540	POLYMER MUD	145.0	1.14		52	39	34	32	0	0	30	28	50.0	13.0	13.0	15.0	28.0
2005-03-18	1540	1540	POLYMER MUD	145.0	1.14		52	39	34	32	0	0	30	28	50.0	13.0	13.0	15.0	28.0
2005-03-19	1540	1540	POLYMER MUD	145.0	1.15	16.0	52	39	33	32	0	0	30	28	50.0	13.0	13.0	15.0	28.0
2005-03-20	1540	1540	POLYMER MUD	140.0	1.15	16.0	50	37	31	30	0	0	29	27	50.0	13.0	12.0	14.0	27.0
2005-03-21	1540	1540	POLYMER MUD	140.0	1.15	16.0	50	37	31	30	0	0	29	27	50.0	13.0	12.0	14.0	27.0

Hole section : P&amp;A

## WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings							Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6						3
2005-03-22	1540	1540	KCL/POLYMER	80.0	1.20	16.0	45	34	28	21	0	0	14	9	50.0	11.0	11.5	5.5	11.0
2005-03-23	1540	1540	KCL/POLYMER		1.20	15.0	42	31	27	20	0	0	10	8	50.0	11.0	10.0	5.0	9.0
2005-03-24	965	965	KCL/POLYMER		1.20	9.0	51	38	33	26	0	0	16	11	50.0	13.0	12.5	6.0	10.0
2005-03-25	538	538	KCL/POLYMER		1.20	9.0	47	36	31	24	0	0	12	9	50.0	11.0	12.5	5.0	9.0
2005-03-26		0	SEA WATER		0.00		0	0	0	0	0	0	0	0					
2005-03-27		0	SEA WATER				0	0	0	0	0	0	0	0					

**DAILY MUD PROPERTIES : OTHER PARAMETERS**

Well: 7220/6-1 PO: 1

Hole section : 9 7/8"

**WATER BASED SYSTEM**

Date	Depth [m]		Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage Solid Oil Sand			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	Glycol [%]
	MD	TVD			API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							[%]	[%]	[%]				
2005-01-18		0	SEA WATER						/																	
2005-01-19		0	SEA WATER						/																	
2005-01-20		0	SEA WATER						/																	
2005-01-21		0	SEA WATER	1.05					/																	
2005-01-22		0	SEA WATER	1.25					/																	
2005-01-23		0	SEA WATER	1.25					/																	
2005-01-24		0	SEA WATER	1.25					/																	

Hole section : 36"

**WATER BASED SYSTEM**

Date	Depth [m]		Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage Solid Oil Sand			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	Glycol [%]
	MD	TVD			API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							[%]	[%]	[%]				
2005-01-25		0	SEA WATER	1.21					/																	
2005-01-26		0	SEA WATER	1.21					/																	
2005-01-27		0	SEA WATER	1.21					/																	
2005-01-28		0	SEA WATER	1.21					/																	
2005-01-29		0	SEA WATER	1.21					/																	

Hole section : 26"

**WATER BASED SYSTEM**

Date	Depth [m]		Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage Solid Oil Sand			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	Glycol [%]
	MD	TVD			API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							[%]	[%]	[%]				
2005-01-30		0	SEA WATER	1.21					/																	
2005-01-31		0	SEA WATER	1.21					/																	
2005-02-01		0	SEA WATER	1.21					/																	
2005-02-02		0	SEA WATER	1.09	4.8		1		/	8.0	0.1	0.1	0.6	26200	30000	320		320	3.0	3.5			3.2	14		
2005-02-03		0	SEA WATER	1.09	4.8		1		/	8.0	0.1	0.1	0.6	26200	30000	320		320	3.0	3.5			3.2	14		
2005-02-04		0	SEA WATER	1.09	4.8		1		/	8.0	0.1	0.1	0.6	26200	30000	320		320	3.0	3.5			3.2	14		
2005-02-05		0	SEA WATER	1.09	4.8		1		/	8.0	0.1	0.1	0.6	26200	30000	320		320	3.0	3.5			3.2	14		
2005-02-06		0	SEA WATER	1.09	4.8		1		/	8.0	0.1	0.1	0.6	26200	30000	320		320	3.0	3.5			3.2	14		
2005-02-07	470	470	SEA WATER	1.09	5.2		1		/	10.5				26200	33000			350	3.5	0.0			7.8	-75		
2005-02-08	547	547	SEA WATER	1.09	5.3		1		/	8.6		0.2		31720	38000	360		360	6.0	0.0		17	2.4	100		

**DAILY MUD PROPERTIES : OTHER PARAMETERS**

Well: 7220/6-1		PO: 1																								
Hole section : 17 1/2"				WATER BASED SYSTEM																						
Date	Depth [m]		Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	Glycol [%]
	MD	TVD			API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							Solid [%]	Oil [%]	Sand [%]				
2005-02-09	547	547	SEA WATER	1.09	5.3		1	/	8.6		0.2			31720	38000	360		360	6.0	0.0	17	2.4	100			
2005-02-10	547	547	SEA WATER	1.09	5.3		1	/	8.6		0.2			31720	38000	360		360	6.0	0.0	17	2.4	100			
2005-02-11	547	547	SEA WATER	1.09	5.3		1	/	8.6		0.2			31720	38000	360		360	6.0	0.0	17	2.4	100			
2005-02-12	547	547	SEA WATER	1.09	5.3		1	/	8.6		0.2			31720	38000	360		360	6.0	0.0	17	2.4	100			
2005-02-13	547	547	SEA WATER	1.09	5.3		1	/	8.6		0.2			31720	38000	360		360	6.0	0.0	17	2.4	100			
2005-02-14		0	SEA WATER					/																		
Hole section : 12 1/4"				WATER BASED SYSTEM																						
Date	Depth [m]		Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	Glycol [%]
	MD	TVD			API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							Solid [%]	Oil [%]	Sand [%]				
2005-02-15 23:59	664	664	KCL/POLYMER	1.20	2.7		1	/	8.5		0.2	1.5		64000	65000	480		480	9.0	0.0	15	4.0	13			
2005-02-16	749	749	KCL/POLYMER	1.21	2.7		1	/	8.5		0.2	1.5		64000	65000	480		480	10.0	0.0	15	3.6	50			
2005-02-17	749	749	KCL/POLYMER	1.21	2.7		1	/	8.5		0.2	1.5		64000	65000	480		480	10.0	0.0	15	3.6	50			
2005-02-18	749	749	SEA WATER	1.21	2.6		1	/	8.6		0.2	1.6		64000	66000	480		480	10.0	0.0	15	3.6	50			
2005-02-19	746	746	SEA WATER	1.21	2.6		1	/	8.6		0.3	1.6		64000	66000	480		480	10.0	0.0	15	3.6	50			
2005-02-20	746	746	SEA WATER	1.21	2.6		1	/	8.6		0.3	1.6		64000	66000	480		480	10.0	0.0	15	3.6	50			
2005-02-21	760	760	SEA WATER	1.21	2.6		1	/	8.6		0.3	1.6		64000	65000	480		480	10.0	0.1	16	3.6	50			
2005-02-22	1091	1091	SEA WATER	1.21	2.8		1	/	8.0	0.0	0.0	1.0		64000	64000	580		580	9.9	0.1	14	3.7	46			
2005-02-23	1130	1130	SEA WATER	1.21	2.8		1	/	8.1		0.0	1.0		64000	64000	580		580	10.0	0.0	14	3.6	51			
2005-02-24	1130	1130	SEA WATER	1.21	2.8		1	/	8.1		0.0	1.0		64000	64000	580		580	10.0	0.0	14	3.6	51			
2005-02-25	1130	1130	SEA WATER	1.21	2.8		1	/	8.1		0.0	1.0		64000	64000	580		580	10.0	0.0	14	3.6	51			
2005-02-26	1130	1130	SEA WATER	1.21	2.8		1	/	8.1		0.0	1.0		64000	64000	580		580	10.0	0.0	14	3.6	51			
Hole section : 8 1/2"				WATER BASED SYSTEM																						
Date	Depth [m]		Mud Type	Dens [sg]	Filtrate		Filtcake		HPHT Press/Temp [bar/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg/l]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	Glycol [%]
	MD	TVD			API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							Solid [%]	Oil [%]	Sand [%]				
2005-02-27	1130	1130	SEA WATER	1.21	2.8		1	/	9.0		0.1	1.3		64000	64000	580		580	10.0	0.0	14	3.6	51			
2005-02-28	1130	1130	SEA WATER	1.21	2.8		1	/	9.0		0.1	1.3		64000	64000	580		580	10.0	0.0	14	3.6	51			
2005-03-01	1148	1148	SEA WATER	1.14	7.2		1	/	11.0	0.6	0.2	0.5			6300	80		80	5.5	0.0		3.6	52			
2005-03-02	1149	1149	SEA WATER	1.14	6.0		1	/	11.0	0.9	0.2	0.5			7000	80		80	5.5			3.6	51			
2005-03-03	1167	1167	SEA WATER	1.14	6.4		1	/	11.0	0.9	0.1	0.5			6900	80		80	5.5		35	3.6	51			
2005-03-04	1172	1172	SEA WATER	1.14	6.5		1	/	11.1	1.0	0.2	0.5			7000	120		120	6.0		35	3.4	77			
2005-03-05	1197	1197	SEA WATER	1.14	6.5		1	/	11.0	1.0	0.2	0.5			7100	120		120	6.0		35	3.4	77			





## TOTAL CONSUMPTION OF MUD ADDITIVES

Well: 7220/6-1

PO: 1

Section	Product/ Additive	Unit	Total Amount Used
36"	BENTONITE	kg	4000.00
	DUOTEC NS	kg	100.00
	LIME	kg	20.00
	NACL BRINE	l	25000.00
	SODA ASH	kg	50.00
<b>Section</b>	<b>Product/ Additive</b>	<b>Unit</b>	<b>Total Amount Used</b>
26"	DUOTEC NS	kg	50.00
<b>Section</b>	<b>Product/ Additive</b>	<b>Unit</b>	<b>Total Amount Used</b>
17 1/2"	BARITE	kg	5000.00
	CITRIC ACID	kg	1500.00
	CMC EHV	kg	450.00
	DUOTEC NS	kg	1375.00
	DUOVIS PLUS NS	kg	100.00
	FLO-TROL	kg	425.00
	GLYDRIL MC	l	9000.00
	KCL POWDER	kg	5000.00
	POLYPAC ELV	kg	3425.00
	POTASSIUM CARBONATE	kg	400.00
	PREMIXED MUD	l	177000.00
	SODIUM BICARBONATE	kg	1975.00
	TROL FL	kg	1675.00
<b>Section</b>	<b>Product/ Additive</b>	<b>Unit</b>	<b>Total Amount Used</b>
12 1/4"	BACTERIOCIDE	l	100.00
	CITRIC ACID	kg	800.00
	DUOTEC NS	kg	750.00
	DUOVIS PLUS NS	kg	25.00
	KCL POWDER	kg	6000.00
	MICA FINE	kg	250.00
	PREMIXED MUD	l	73000.00
	SODIUM BICARBONATE	kg	1050.00
<b>Section</b>	<b>Product/ Additive</b>	<b>Unit</b>	<b>Total Amount Used</b>
9 7/8"	BARITE	kg	14000.00
	BENTONITE	kg	4800.00
	CITRIC ACID	kg	25.00
	DUOTEC NS	kg	525.00
	FLOWATE	kg	9000.00
	NACL BRINE	l	90000.00
	NACL PREMIX	l	99000.00
	SODA ASH	kg	50.00
	TROL FL	kg	1750.00
<b>Section</b>	<b>Product/ Additive</b>	<b>Unit</b>	<b>Total Amount Used</b>
8 1/2"	BACTERIOCIDE	l	50.00
	BARITE	kg	82000.00

**TOTAL CONSUMPTION OF MUD ADDITIVES**

<b>Section</b>	<b>Product/ Additive</b>	<b>Unit</b>	<b>Total Amount Used</b>
8 1/2"	BENTONITE	kg	13000.00
	CACO3 M	kg	300.00
	CITRIC ACID	kg	825.00
	CMC EHV	kg	150.00
	DEFOAMER	l	675.00
	DRILPLEX	kg	1506.00
	DUOVIS PLUS NS	kg	325.00
	FLOPLEX	kg	3506.00
	LIME	kg	160.00
	M-I X II	kg	300.00
	NUTPLUG F	kg	300.00
	SODA ASH	kg	1500.00
	SODIUM BICARBONATE	kg	550.00
<b>Section</b>	<b>Product/ Additive</b>	<b>Unit</b>	<b>Total Amount Used</b>
P&A	BARITE	kg	6000.00
	CITRIC ACID	kg	1875.00
	CMC EHV	kg	50.00
	DUOTEC NS	kg	150.00
	DUOVIS PLUS NS	kg	150.00
	GLYDRIL MC	l	800.00
	SODA ASH	kg	50.00
	SODIUM BICARBONATE	kg	2625.00