



FORMATION PRESSURE WORKSHEET

Well No.: 34/8-11

Rig : Polar Pioneer

Date : 02. - 03.01.94

Pressure Units : bar

RKB-MSL : 23m

Witnessed by : J.R.Eide

Run No.	Depth (MD)	Depth TVD (RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks	
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	Mob.	T ° C
3A/1	2870.4	2869.6	476.55	477.04	427.50	427.94	476.35	476.92	00:01	00:06	115	86.8
3A/2	2872.9	2872.1	476.80	477.40	427.65	428.10	476.68	477.25	00:12	00:16	118	87.3
3A/3	2875.9	2875.1	477.22	477.80	427.81	428.27	477.10	477.68	00:23	00:26	116	87.9
3A/4	2883.4	2882.6	478.50	479.07	428.20	428.71	478.33	478.90	00:34	00:37	268	88.3
3A/5	2894.9	2894.0	480.45	481.05	-	-	480.20	480.75	00:45	00:48		tight
3A/6	2899.4	2898.5	481.12	481.70	429.49	429.98	480.85	481.44	00:54	00:59	12	89.4
3A/7	2909.4	2908.4	482.80	483.38	430.08	430.57	482.55	483.07	01:07	01:11	11	90.4
3A/8	2913.9	2912.9	483.48	484.10	430.48	430.84	483.23	483.84	01:19	01:23	38	90.7
3A/9	2916.9	2915.9	483.88	484.53	430.53	431.02	483.75	484.37	01:30	01:33	1532	91.3
3A/10	2923.9	2922.8	485.01	485.64	430.92	431.43	484.87	485.52	02:09	02:12	337	92.6
3A/11	2926.9	2925.8	485.60	486.22	431.10	431.61	485.39	486.05	02:16	02:19	1112	92.8
3A/12	2930.9	2929.8	486.37	486.90	431.33	431.84	486.03	486.68	02:24	02:27	180	92.9
3A/13	2937.9	2926.7	487.38	488.03	431.74	431.25	487.14	487.78	02:34	02:37	54	93.2

All depths have been shifted 6.1 m up.



FORMATION PRESSURE WORKSHEET

Well No.: 34/8-11			Rig : Polar Pioneer				Date : 02. - 03.01.94					
Pressure Units : bar			RKB-MSL : 23m				Witnessed by : J.R.Eide					
Run No.	Depth (MD)	Depth TVD (RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks	
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	Mob.	T ° C
3A/14	2941.9	2940.7	488.05	488.70	431.97	432.48	487.82	488.48	02:44	02:48	719	93.6
3A/15	2946.9	2945.7	488.88	489.54	432.25	432.77	488.62	489.28	02:53	02:56	260	94.1
3A/16	2952.4	2951.1	489.86	490.55	432.57	433.09	489.58	490.24	03:02	03:04	102	94.3
3A/17	2957.9	2956.6	490.75	491.39	432.89	433.40	490.37	491.03	03:09	03:12	200	94.6
3A/18	2963.9	2962.4	491.61	492.30	433.28	433.79	491.33	491.98	03:20	03:24	108	94.9
3A/19	2969.4	2968.0	492.48	493.15	433.80	434.31	492.17	492.84	03:30	03:35	265	95.6
3A/20	2974.4	2973.0	493.24	493.91	434.28	434.80	492.97	493.64	03:39	03:45	260	96.2
3A/21	2977.4	2976.0	493.65	494.30	434.56	435.08	493.47	494.13	03:51	03:54	231	96.5
3A/22	2979.9	2978.5	494.02	494.71	434.80	435.34	493.88	494.56	04:01	04:04	90	96.7
3A/23	2984.2	2982.7	494.80	495.41	435.21	435.74	494.59	495.25	04:11	04:14	189	97.0
3A/24	2991.4	2989.9	495.87	496.58	435.92	436.46	495.71	496.39	04:21	04:25	30	97.6

All depths have been shifted 6.1 m up.

WELL TEST RESULTS**WELL: 34/8 - 11**

TEST NO.	1A	2B	
PERFORATED INTERVAL (m MD-RKB)	2942.2-2956.2	2913.2-2939.0 2942.2-2956.2	
CHOKE SIZE (1/64 inch)	40	40	
OIL/COND.FLOW RATE (Sm ³ /d)	1142	1135	
GAS FLOW RATE (Sm ³ /d)	285300	291800	
WATER FLOW RATE (Sm /d)	0	0	
GOR (Sm ³ /Sm ³)	250	257	
OIL/COND. GRAVITY (g/cc @ 15°C)	0.841	0.839	
GAS GRAVITY (air=1)	0.755	0.735	
FWHP (bar)	226.3	227.4	
SIWHP (bar)	-	-	
FWHT (°C)	71.7	87.9	
FBHT (bar)	111.6	112.3	
FBHP (bar)	422.8	421.8	
SIBHP (bar)	426.6	425.92	
WATER FLOW RATE (Sm ³ /d)	0	0	
BS&W (%)	0.4	0.6	
CO ₂ (% max)	Traces	1.2	
H ₂ S (ppm max)	2947	3277	
k (mD)	29.13	40.63	
SKIN	18.5	35	
PI (Sm ³ /d/bar)	289	257	
DEPTH OF BH MEASUREMENTS (m MD-RKB)	2848.86	2848.86	

REMARKS:

* Isopach Net

** Pi=457 bar

TOTAL CONSUMPTION OF MUD ADDITIVES ON WELL 34/8-11

Section Size	Product/Additive	Total	Total	Unit	Difference		Difference in cost	
		Amount Planned	Amount Used		Amount	%	%	[kNOK]
36"	BENTONITE		2000.0	kg				
	CAUSTIC SODA (Kg)		4.0	kg				
	CMC EHV		616.0	kg				
17 1/2"	BARITE		35000.0	kg				
	BENTONITE		34000.0	kg				
	CAUSTIC SODA (Kg)		275.0	kg				
	CMC EHV		434.0	kg				
12 1/4"	ANCO 208		15900.0	l				
	BARITE		121000.0	kg				
	CELPOL LV		5321.0	kg				
	CELPOL REG		1155.0	kg				
	CLAYCAP		681.0	kg				
	KCL		7000.0	kg				
	KCL BRINE		434000.0	l				
	PROPAC		624.0	l				
	SODA ASH		1649.0	kg				
8 1/2"	ANCO 208		2500.0	l				
	ANCO DEFOAMER		40.0	l				
	ANCOTEMP		2914.0	kg				
	ANTISOL 50/50		2054.0	kg				
	BARITE		705000.0	kg				
	BENTONITE		21000.0	kg				
	BICARBONATE		800.0	kg				
	CELPOL LV		1589.0	kg				
	CELPOL REG		1098.0	kg				
	CLAYCAP		130.0	kg				
	HOSTADRILL		950.0	kg				
	KCL BRINE		79000.0	l				
	KEMSEAL		567.0	kg				
	LIGSEAL/PROSEAL		3015.0	kg				
	SHALETROL		1150.0	kg				
SODA ASH		1336.0	kg					
XANVIS		971.0	kg					

6 MUD REPORT

6.1 36" hole section

The top hole was drilled with seawater and pumping high viscous CMC/ bentonite pills on every connection. Prior to running the conductor the hole was displaced to high viscous mud at 1.20 sg. The hole section was drilled without any hole problems.

6.2 17 1/2" hole section

This hole section was also drilled riserless with seawater and high viscous CMC/bentonite pills on every connection. Testing mud at 1.60 sg, from the previous well was cut back to 1.20 sg, and viscosified with prehydrated bentonite and CMC EHV for hole displacement. The hole section was drilled without any hole problems.

6.3 12 1/4" hole section

The 12 1/4" section was drilled with the Anco 2000 system. The mud was mixed of 175 m³ old mud from well 34/8-10S and diluted with fresh mud. The mud performed well in this section.

The cuttings initially were firm and dry, but as drilling progressed the cuttings become sticky. This was particularly experienced at 2000 m to 2400 m. Adding of premix made of pure brine and polymer/Anco 208 in a rate of 2-3 m³/hr was required to keep the KCL level high (higher than programmed). Further, treatment of Soda Ash on a daily basis was required to control the Calcium level.

6.4 **8 1/2" hole section**

This section was also drilled with the Anco 2000 system. On drilling out, the active mud system was treated with Shaletrol and Sodium Bicarbonate to reduce pH and Calcium resulting from the cement.

In order to obtain the HTHP fluid loss below 15 ml, Ligseal concentration was kept in surplus. Celpol LV kept the yield point in the 6-10 Pa range. Only small amounts of Celpol Regular were used to adjust YP and gels.

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 34/8-11

Hole section: 36"

WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings							Rheo	PV	YP	Ge10	Ge110	
	[m]			Visc		Out								Test					
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
10-dec-1993 19:00	440		SPUD MUD	100.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0

Hole section: 17 1/2"

WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings							Rheo	PV	YP	Ge10	Ge110	
	[m]			Visc		Out								Test					
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
11-dec-1993 13:30	822		SPUD MUD	100.0	1.06	0.0									0.0	0.0	0.0	0.0	0.0
12-dec-1993 10:00	1295		SPUD MUD	100.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0
13-dec-1993 19:00	1295		SPUD MUD	80.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0
14-dec-1993 21:00	1295		SPUD MUD	80.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0

Hole section: 12 1/4"

WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings							Rheo	PV	YP	Ge10	Ge110	
	[m]			Visc		Out								Test					
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
15-dec-1993 21:00	1295		SPUD MUD	80.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0
16-dec-1993 15:00	1295		SPUD MUD	80.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0
17-dec-1993 23:59	1762		ANCO 2000	84.0	1.50	0.0	90	56	42	26			5	3	50.0	34.0	11.0	2.0	6.0
18-dec-1993 21:30	2025		ANCO 2000	75.0	1.50	0.0	79	49	37	23			3	2	50.0	30.0	9.5	2.0	5.0
19-dec-1993 23:59	2485		ANCO 2000	80.0	1.50	0.0	86	53	40	25			5	3	50.0	33.0	10.0	2.0	7.0
20-dec-1993 22:00	2711		ANCO 2000	75.0	1.51	0.0	64	40	29	18			5	3	50.0	24.0	8.0	2.0	8.5
21-dec-1993 19:00	2711		ANCO 2000	76.0	1.51	0.0	65	40	29	18			5	3	50.0	25.0	7.5	2.0	8.5
22-dec-1993 19:00	2711		ANCO 2000	74.0	1.51	0.0	62	38	28	17			4	3	50.0	24.0	7.0	2.0	9.0

See also the report 'DAILY MUD PROPERTIES : OTHER PARAMETERS'

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 34/8-11

Hole section: 8 1/2"			WATER BASED SYSTEM																
Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings							Rheo	PV	YP	Ge10	Ge110	
	[m]			Visc		Out								Test					
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
23-dec-1993	23:59	2746	ANCO 2000	74.0	1.68	0.0	81	49	36	23			8	6	50.0	32.0	8.5	4.0	14.0
24-dec-1993	23:59	2800	ANCO 2000	83.0	1.68	0.0	85	51	37	22			5	3	50.0	34.0	8.5	2.0	5.0
25-dec-1993	23:59	2858	ANCO 2000	78.0	1.68	0.0	86	51	38	23			5	3	50.0	35.0	8.0	2.0	6.0
26-dec-1993	23:59	2889	ANCO 2000	84.0	1.68	0.0	83	49	37	22			5	3	50.0	34.0	7.5	2.0	5.0
27-dec-1993	23:59	2915	ANCO 2000	83.0	1.68	0.0	74	43	31	18			4	3	50.0	31.0	6.0	2.0	4.0
28-dec-1993	23:59	2935	ANCO 2000	88.0	1.68	0.0	87	51	37	22			4	3	50.0	36.0	7.5	2.0	4.0
29-dec-1993	23:30	2986	ANCO 2000	94.0	1.68	0.0	86	50	37	22			4	3	50.0	36.0	7.0	2.0	4.0
30-dec-1993	23:00	2994	ANCO 2000	90.0	1.68	0.0	80	47	34	20			5	3	50.0	33.0	7.0	2.0	4.5
31-dec-1993	23:00	3008	ANCO 2000	93.0	1.68	0.0	91	53	40	24			4	3	50.0	38.0	7.5	2.0	4.0
01-jan-1994	23:00	3140	ANCO 2000	88.0	1.68	0.0	97	58	41	24			8	5	50.0	39.0	9.5	3.0	7.0
02-jan-1994	23:00	3140	ANCO 2000	88.0	1.68	0.0	97	58	41	24			8	5	50.0	39.0	9.5	3.0	7.0
03-jan-1994	23:00	3140	ANCO 2000	90.0	1.68	0.0	97	58	41	24			8	5	50.0	39.0	9.5	3.0	7.0
04-jan-1994	21:30	3140	ANCO 2000	94.0	1.68	0.0	90	53	39	23			7	4	50.0	37.0	8.0	2.0	5.0
05-jan-1994	21:00	3140	ANCO 2000	97.0	1.68	0.0	90	53	40	24			7	4	50.0	37.0	8.0	2.5	5.0
06-jan-1994	21:00	3140	TEST FLUID	90.0	1.66	0.0	96	58	45	28			8	6	50.0	38.0	10.0	4.0	8.0
07-jan-1994	21:00	3140	TEST FLUID	90.0	1.66	0.0	96	58	45	28			8	6	50.0	38.0	10.0	4.0	8.0
08-jan-1994	21:00	3140	TEST FLUID	90.0	1.66	0.0	96	58	45	28			8	6	50.0	38.0	10.0	4.0	8.0
09-jan-1994	21:00	3140	TEST FLUID	90.0	1.66	0.0	96	58	45	28			8	6	50.0	38.0	10.0	4.0	8.0
10-jan-1994	21:00	3140	TEST FLUID	90.0	1.66	0.0	96	58	45	28			8	6	50.0	38.0	10.0	4.0	8.0
11-jan-1994	21:00	3140	TEST FLUID	90.0	1.66	0.0	96	58	45	28			8	6	50.0	38.0	10.0	4.0	8.0
12-jan-1994	20:00	3140	TEST FLUID	70.0	1.66	0.0	89	53	42	26			7	4	50.0	36.0	8.5	3.0	6.5
13-jan-1994	20:00	3140	TEST FLUID	70.0	1.66	0.0	89	53	42	26			7	4	50.0	36.0	8.5	3.0	6.5
14-jan-1994	12:00	3140	TEST FLUID	70.0	1.66	0.0	89	53	42	26			7	4	50.0	36.0	8.5	3.0	6.5
15-jan-1994	16:00	3140	TEST FLUID	81.0	1.66	0.0	86	53	43	27			10	7	50.0	33.0	10.0	3.5	8.0
16-jan-1994	19:00	3140	TEST FLUID	81.0	1.66	0.0	86	53	43	27			10	7	50.0	33.0	10.0	3.5	8.0
17-jan-1994	14:00	3140	TEST FLUID	81.0	1.66	0.0	86	53	43	27			10	7	50.0	33.0	10.0	3.5	8.0
18-jan-1994	16:00	3140	TEST FLUID	81.0	1.66	0.0	86	53	43	27			10	7	50.0	33.0	10.0	3.5	8.0
19-jan-1994	23:00	3140	TEST FLUID	81.0	1.66	0.0	86	53	43	27			10	7	50.0	33.0	10.0	3.5	8.0

See also the report 'DAILY MUD PROPERTIES : OTHER PARAMETERS'

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 34/8-11

Hole section: 8 1/2" WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings							Rheo	PV	YP	Gel10	Gel10	
	[m]	MD TVD		Visc	Out	[DegC]	600	300	200	100	60	30	6	3	Test	[mPas]	[Pa]	[Pa]	[Pa]
				[sec]	[sg]	[DegC]								[DegC]					
20-jan-1994 12:00	3140		TEST FLUID	100.0	1.66	0.0	88	54	43	29			10	7	50.0	34.0	10.0	3.5	8.0
21-jan-1994 03:00	3140		TEST FLUID	100.0	1.66	0.0	88	54	42	28			10	7	50.0	34.0	10.0	4.0	8.0
22-jan-1994 15:00	3140		TEST FLUID	100.0	1.66	0.0	88	54	42	28			10	7	50.0	34.0	10.0	4.0	8.0
23-jan-1994 09:00	3140		TEST FLUID	130.0	1.66	0.0	88	54	42	28			10	7	50.0	34.0	10.0	4.0	8.0
24-jan-1994 14:00	3140		TEST FLUID	68.0	1.66	0.0	70	43	34	22			9	7	50.0	27.0	8.0	3.5	14.0
25-jan-1994 22:30	3140		TEST FLUID	67.0	1.66	0.0	64	39	28	17			4	3	50.0	25.0	7.0	2.0	13.0
26-jan-1994 16:00	3140		TEST FLUID	53.0	1.66	0.0	56	34	23	13			5	3	50.0	22.0	6.0	2.0	10.0
27-jan-1994 21:00	3140		TEST FLUID	60.0	1.66	0.0	68	42	31	29			3	2	50.0	26.0	8.0	2.0	12.0
28-jan-1994 21:00	3140		TEST FLUID	65.0	1.66	0.0	65	40	28	18			4	2	50.0	25.0	7.5	2.0	9.0
29-jan-1994 18:00	3140		TEST FLUID	62.0	1.66	0.0	62	37	26	15			3	2	50.0	25.0	6.0	2.0	7.0
30-jan-1994 17:00	3140		TEST FLUID	64.0	1.66	0.0	73	43	30	18			4	3	50.0	30.0	6.5	2.0	7.0
31-jan-1994 19:30	3140		TEST FLUID	58.0	1.66	0.0	60	36	26	16			3	2	50.0	24.0	6.0	2.0	8.0
01-feb-1994 17:00	3140		TEST FLUID	56.0	1.66	0.0	60	36	26	16			3	2	50.0	24.0	6.0	2.0	8.0
02-feb-1994 19:30	2889		TEST FLUID	68.0	1.66	0.0	59	36	25	15			3	2	50.0	23.0	6.5	2.0	18.0
03-feb-1994 23:00	1204		TEST FLUID	62.0	1.55	0.0	55	33	22	11			3	2	50.0	22.0	5.5	1.5	8.0
04-feb-1994 14:00	375		TEST FLUID	60.0	1.55	0.0	56	35	20	10			3	2	50.0	21.0	7.0	1.5	7.0

See also the report 'DAILY MUD PROPERTIES : OTHER PARAMETERS'

Norsk Hydro

DAILY MUD PROPERTIES : OTHER PARAMETERS FOR WELL 34/8-11

Hole section: 36*			WATER BASED SYSTEM																					
Date	Depth [m]	Mud Type	Dens	Filtrate	Filt.cake	HPHT		pH	Alcalinity			Inhib Chem	K+	CL-	Ca++	Mg++	Tot hard	Percentage				CEC	ASG	LGS
			[sg]	[ml]	[ml]	[mm]	[mm]		Press/Temp	Pm	Pf							Mf	[Kg/m3]	[mg/l]	[mg/l]			
10-dec-1993 19:00	440	SPUD MUD	1.20	0.0	0.0	0	0	0/0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0

Hole section: 17 1/2*			WATER BASED SYSTEM																					
Date	Depth [m]	Mud Type	Dens	Filtrate	Filt.cake	HPHT		pH	Alcalinity			Inhib Chem	K+	CL-	Ca++	Mg++	Tot hard	Percentage				CEC	ASG	LGS
			[sg]	[ml]	[ml]	[mm]	[mm]		Press/Temp	Pm	Pf							Mf	[Kg/m3]	[mg/l]	[mg/l]			
11-dec-1993 13:30	822	SPUD MUD	1.06	0.0	0.0	0	0	0/0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
12-dec-1993 10:00	1295	SPUD MUD	1.20	0.0	0.0	0	0	0/0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
13-dec-1993 19:00	1295	SPUD MUD	1.20	0.0	0.0	0	0	0/0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
14-dec-1993 21:00	1295	SPUD MUD	1.20	0.0	0.0	0	0	0/0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0

Hole section: 12 1/4*			WATER BASED SYSTEM																					
Date	Depth [m]	Mud Type	Dens	Filtrate	Filt.cake	HPHT		pH	Alcalinity			Inhib Chem	K+	CL-	Ca++	Mg++	Tot hard	Percentage				CEC	ASG	LGS
			[sg]	[ml]	[ml]	[mm]	[mm]		Press/Temp	Pm	Pf							Mf	[Kg/m3]	[mg/l]	[mg/l]			
15-dec-1993 21:00	1295	SPUD MUD	1.20	0.0	0.0	0	0	0/0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
16-dec-1993 15:00	1295	SPUD MUD	1.20	0.0	0.0	0	0	0/0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
17-dec-1993 23:59	1762	ANCO 2000	1.50	3.1	0.0	1	0	0/0	9.0	0.0	0.1	0.6	152	79581	84000	260	0	400	20.5	0.0	0.8	32	0.0	110
18-dec-1993 21:30	2025	ANCO 2000	1.50	3.0	0.0	1	0	0/0	8.7	0.0	0.1	0.6	160	83770	92000	400	0	480	20.5	0.0	0.8	38	0.0	116
19-dec-1993 23:59	2485	ANCO 2000	1.50	3.0	0.0	1	0	0/0	8.7	0.0	0.0	0.5	165	86387	102500	320	0	0	21.0	0.0	0.5	40	0.0	114
20-dec-1993 22:00	2711	ANCO 2000	1.51	3.4	0.0	1	0	0/0	8.3	0.0	0.0	0.4	175	91623	99000	280	0	400	21.5	0.0	0.2	49	0.0	145
21-dec-1993 19:00	2711	ANCO 2000	1.51	3.4	0.0	1	0	0/0	8.3	0.0	0.0	0.4	175	91623	99000	280	0	0	21.5	0.0	0.2	49	0.0	145
22-dec-1993 19:00	2711	ANCO 2000	1.51	3.4	0.0	1	0	0/0	8.3	0.0	0.0	0.4	175	91623	100000	320	0	0	21.5	0.0	0.2	49	0.0	144

Hole section: 8 1/2*			WATER BASED SYSTEM																					
Date	Depth [m]	Mud Type	Dens	Filtrate	Filt.cake	HPHT		pH	Alcalinity			Inhib Chem	K+	CL-	Ca++	Mg++	Tot hard	Percentage				CEC	ASG	LGS
			[sg]	[ml]	[ml]	[mm]	[mm]		Press/Temp	Pm	Pf							Mf	[Kg/m3]	[mg/l]	[mg/l]			
23-dec-1993 23:59	2746	ANCO 2000	1.68	4.8	20.0	1	0	34/110	8.7	0.0	0.0	0.7	166	88481	102000	320	0	520	27.5	0.0	0.5	45	0.0	166
24-dec-1993 23:59	2800	ANCO 2000	1.68	3.0	14.0	1	0	34/110	8.5	0.0	0.1	1.0	159	83246	100000	120	0	360	26.5	0.0	0.2	50	0.0	137
25-dec-1993 23:59	2858	ANCO 2000	1.68	3.0	12.0	1	0	34/110	8.6	0.0	0.1	0.9	160	83769	103000	100	0	360	26.5	0.0	0.2	47	0.0	133
26-dec-1993 23:59	2889	ANCO 2000	1.68	3.0	12.0	1	0	34/110	8.5	0.0	0.1	1.0	170	89005	103000	100	0	0	27.0	0.0	0.2	49	0.0	144
27-dec-1993 23:59	2915	ANCO 2000	1.68	2.7	12.0	1	0	34/110	8.5	0.0	0.1	1.0	172	90052	102000	100	0	0	26.5	0.0	0.5	47	0.0	134
28-dec-1993 23:59	2935	ANCO 2000	1.68	2.8	12.4	1	0	34/110	8.5	0.0	0.1	0.8	172	90052	102000	100	0	0	26.5	0.0	0.5	47	0.0	134
29-dec-1993 23:59	2986	ANCO 2000	1.68	2.8	12.4	1	0	34/110	8.5	0.0	0.1	0.8	172	90052	102000	100	0	0	26.5	0.0	0.5	47	0.0	134
30-dec-1993 23:00	2994	ANCO 2000	1.68	2.8	12.8	1	0	34/110	8.4	0.0	0.1	0.8	172	90052	102000	120	0	0	26.5	0.0	0.2	49	0.0	134
31-dec-1993 23:00	3008	ANCO 2000	1.68	2.9	12.8	1	0	34/110	8.5	0.0	0.1	0.8	172	90052	102000	110	0	0	26.5	0.0	0.2	53	0.0	134
01-jan-1994 23:00	3140	ANCO 2000	1.68	3.0	13.0	1	0	34/110	8.3	0.0	0.1	0.8	174	91099	104000	120	0	0	26.5	0.0	0.2	55	0.0	132
02-jan-1994 23:00	3140	ANCO 2000	1.68	3.0	13.0	1	0	34/110	8.3	0.0	0.1	0.8	174	91099	104000	120	0	0	26.5	0.0	0.2	55	0.0	132
03-jan-1994 23:00	3140	ANCO 2000	1.68	3.0	13.0	1	0	34/110	8.2	0.0	0.1	0.7	174	91099	104000	120	0	0	26.5	0.0	0.2	55	0.0	132

See also the report 'DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS'

DAILY MUD PROPERTIES : OTHER PARAMETERS FOR WELL 34/8-11

Hole section: 8 1/2"			WATER BASED SYSTEM																				
Date	Depth	Mud Type	Dens	Filtrate	Filt.cake	HPHT	pH	Alcalinity			Inhib	K+	CL-	Ca++	Mg++	Tot	Percentage			CEC	ASG	LGS	
	[m]		[sg]	[ml]	[ml]	[mm]		Pm	Pf	Mf	Chem	[mg/l]	[mg/l]	[mg/l]	[mg/l]	hard	Solid	Oil	Sand	[Kg/m3]	[sg]	[Kg/m3]	
	MD	TVD		[API]	[HPHT]	[API]	[HPHT]	Press/Temp				[Kg/m3]	[mg/l]	[mg/l]	[mg/l]	[mg]	[%]	[%]	[%]	[Kg/m3]	[sg]	[Kg/m3]	
04-jan-1994	21:30	3140																					
05-jan-1994	21:00	3140																					
06-jan-1994	21:00	3140																					
07-jan-1994	21:00	3140																					
08-jan-1994	21:00	3140																					
09-jan-1994	21:00	3140																					
10-jan-1994	21:00	3140																					
11-jan-1994	21:00	3140																					
12-jan-1994	20:00	3140																					
13-jan-1994	20:00	3140																					
14-jan-1994	12:00	3140																					
15-jan-1994	16:00	3140																					
16-jan-1994	19:00	3140																					
17-jan-1994	14:00	3140																					
18-jan-1994	16:00	3140																					
19-jan-1994	23:00	3140																					
20-jan-1994	12:00	3140																					
21-jan-1994	03:00	3140																					
22-jan-1994	15:00	3140																					
23-jan-1994	09:00	3140																					
24-jan-1994	14:00	3140																					
25-jan-1994	22:30	3140																					
26-jan-1994	16:00	3140																					
27-jan-1994	21:00	3140																					
28-jan-1994	21:00	3140																					
29-jan-1994	18:00	3140																					
30-jan-1994	17:00	3140																					
31-jan-1994	19:30	3140																					
01-feb-1994	17:00	3140																					
02-feb-1994	19:30	2889																					
03-feb-1994	23:00	1204																					
04-feb-1994	14:00	375																					