

FORMATION PRESSURE WORKSHEET

Well No.: 30/8-1S			Rig : Treasure Saga					Date : 2 - 3.01.95			
Pressure Units : Bar			RKB-MSL : 26m					Witnessed by : Psw/MA/RR			
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	
2A/1	3567	3451.4	555.9	555.6	520.2	519.92	556.4	555.7	16:55	17:00	113.4 deg C
2A/2	3581	3461.6	557.5	557.5	520.5	520.11	557.4	557.1	17:30	17:35	
2A/3	3599	3474.9	560.5	560.1	520.9	520.52	560.4	560.2	18:06	18:12	
2A/4	3612	3484.5	560.8	560.4	521.2	520.84	560.9	560.6	18:34	18:38	
2A/5	3622	3491.8	562.8	562.3	521.5	521.09	562.1	561.8	19:00	19:04	
2A/6	3631.1	3498.5	563.5	563.3	521.6	521.25	563.5	563.4	19:30	19:34	
2A/7	3656	3516.6	566.5	566.6	522.3	521.94	566.8	566.6	20:16	20:21	
2A/8	3660.1	3519.6	566.8	566.4	522.4	522.00	566.8	566.6	20:36	20:41	
2A/9	3664	3522.5	567.8	567.3	522.5	522.17	567.8	567.3	20:55	20:59	
2A/10	3671	3527.6	568.2	567.8	522.8	522.38	568.2	567.8	21:12	21:15	
2A/11	3680	3534.2	569.3	569.4	523.0	522.62	569.3	569.2	21:34	21:38	
2A/12	3685	3537.7	570.6	570.3	523.4	523.02	570.6	570.4	22:06	22:14	
2A/13	3724	3566.3	575.0	574.5	528.7	528.36	574.5	574.2	22:49	22:56	Supercharge??
2A/14	3728	3569.2	575.1	574.7	-	-	575.6	575.1	23:11	23:14	Dry test
2A/15	3734.9	3574.3	576.2	575.5	527.2	526.75	576.1	575.9	23:26	23:30	
2A/16	3736	3575	576.3	575.7	527.3	526.83	576.1	575.7	23:44	23:48	
2A/17	3740.4	3578.4	576.5	576.0	528.6	528.15	576.8	576.6	00:20	00:26	Supercharge??
2A/18	3742.9	3580.2	576.5	576.3	527.6	527.22	576.5	576.2	00:42	00:46	121 deg C
2A/19	3744.6	3581.5	576.8	576.8	-	-	577.3	576.8	00:59	01:02	Dry test
2A/20	3848	3660	590.0	589.9	547.3	546.91	590.3	589.9	02:11	02:15	Correlated 124 deg C
2A/21	3884	3687.9	595.1	594.8	549.9	549.50	594.4	594.4	02:56	03:01	Correlate-OK Sticky hole
2A/22	3885.5	3689.1	595.3	594.9	550.4	550.02	595.0	594.8	03:19	03:26	Unstable Sticky hole

FORMATION PRESSURE WORK SHEET

Well No.:30/8-1S			Rig : Treasure Saga				Date :2 - 3.01.95				
Pressure Units :Bar			RKB-MSL : 26m				Witnessed by :PSw/MA/RR				
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	
2A/23	3886.9	3690.2	595.3	595.0	-	-	595.1	595.0	03:45	03:46	Tight - off depth?? Sticky hole
2A/24	3885.2	3688.9	594.4	594.2	549.9	549.60	594.6	594.5	04:03	04:08	Correlated / +2m
2A/25	3888	3691.0	595.4	595.0	550.1	549.78	594.7	594.4	04:30	04:36	Sticky hole
2A/26	3974	3759.2	606.8	606.4	583.7	583.35	606.6	606.4	05:55	05:59	Correlated - OK 130 deg C
2A/27	4052	3823.5	618.8	618.5	-	-	618.4	618.6	06:49	06:50	Corr / + 0.3m; Dry off depth??
2A/28	4055	3826.1	618.8	618.6	608.0	607.75	618.8	618.7	07:29	07:34	Correlated - sticky
2A/29	4092.2	3857.7	625.6	625.4	-	-	-	-	09:02	09:03	Dry test
2A/30	4093.5	3858.7	626.4	626.1	621.3	621.00	626.4	626.1	08:38	08:49	Supercharge ??
2A/31	4092.6	3858.1	628.8	625.6	622.9	622.60	625.9	625.5	09:13	09:22	Supercharge
2A/32	4093.4	3857.6	626.2	625.8	620.8	620.46	626.2	625.9	09:33	09:37	OK 137 deg C
2A/33	3734.9	3574.3	575.8	575.4	527.3	526.78	575.8	575.6	11:50	12:27	Sampling 1 gal chamber 122

FORMATION FLUID SAMPLING

Well : 30/8-1

Rig: Treasure Saga

Pretest No.: 2A/33		Sample Depth : 3734.9		Witnesses : PSw/MA/RR	
Run No. : 2A	Sample No.:	1st Chamber	2nd Chamber	3rd Chamber	
Chamber volume (gals/litres)		1 gal	2 3/4 gal		
Chamber No.					
Filling time (mins.)		15	-		
Shut in press. (bar) / deg C		526.78 / 122	-		
Chamber press. (surf bar) / T		26 / 5	empty		
Gas volume (SCF/Sm3)		1 balloon			
Oil volume (litres)		-			
Oil gravity (API / gm / cc)		-			
Water / Filtrate (litres)		3.25			
Water / Filtrate CL- mg/l		45 000			
Water filtrate pH / pF / Ca++		6.1 / 0 / 880			
Mud filtrate CL- mg/l		68 000			
Mud filtrate pH / pF / Ca++		8.5 / 0.02 / 160			
Gas composition ppm C1		796300			
C2		21005			
C3		3950			
iC4		240			
nC4		440			
H ₂ S		-			
CO ₂		-			

Remarks : No oil film at top of water.

TOTAL CONSUMPTION OF MUD ADDITIVES ON WELL 30/8-1S

Section Size	Product/Additive	Total Amount Planned	Total Amount Used	Unit	Difference		Difference in cost	
					Amount	%	%	[kNOK]
32"	BARITE		70000.0	kg				
	BENTONITE		26000.0	kg				
	SODA ASH		175.0	kg				
24"	BARITE		292000.0	kg				
	BENTONITE		116000.0	kg				
	CMC EHV		4000.0	kg				
	RHODOTOL 23		250.0	kg				
	SODA ASH		550.0	kg				
17 1/2"	ANCO PHPA		3500.0	kg				
	BARITE		609000.0	kg				
	CELPOL LV		17500.0	kg				
	CELPOL REG		400.0	kg				
	KCL BRINE		852000.0	l				
	KCL POWDER		4000.0	kg				
	MICA FINE		775.0	kg				
	NUTPLUG F		725.0	kg				
	RHODOTOL 23		2850.0	kg				
SODA ASH		2575.0	kg					
12 1/4"	ANCO DEFOAMER		325.0	l				
	ANCO PHPA		1975.0	kg				
	ANCO RESIN		775.0	kg				
	ANTISOL 50/50		8300.0	kg				
	BARITE		1002000.0	kg				
	CELPOL SL		6700.0	kg				
	HOSTADRILL		13525.0	kg				
	KCL BRINE		424000.0	l				
	KCL POWDER		17950.0	kg				
	KOPLUS LL		9370.0	l				
	LIME		2200.0	kg				
	RHODOTOL 23		2350.0	kg				
	SHALETROL		1175.0	kg				
SODA ASH		2975.0	kg					
SODIUM BICARBONATE			1425.0	kg				

TOTAL CONSUMPTION OF MUD ADDITIVES ON WELL 30/8-1S

Section Size	Product/Additive	Total	Total	Unit	Difference		Difference in cost	
		Amount Planned	Amount Used		Amount	%	%	[kNOK]
8 3/8"	ANCO DEFOAMER		215.0	l				
	ANCO RESIN		14225.0	kg				
	ANCOTEMP		12011.0	kg				
	ANTISOL 50/50		1000.0	kg				
	BARITE		1821000.0	kg				
	BENTONITE		11200.0	kg				
	CELPOL SL		25.0	kg				
	CITRIC ACID		1275.0	kg				
	HOSTADRILL		8625.0	kg				
	KEMSEAL		1970.0	kg				
	LIGHTIN		750.0	kg				
	LIME		1100.0	kg				
	MICA FINE		1000.0	kg				
	NUTPLUG F		1000.0	kg				
	RHODOTOL 23		1150.0	kg				
SHALETROL		4750.0	kg					
SODA ASH		900.0	kg					
SODIUM BICARBONATE		5550.0	kg					

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 30/8-1S

Hole section: 32"

WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings							Rheo	PV	YP	Gel0	Gel10	
	[m]			Visc	Out								Test						
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
02-nov-1994 23:59	0	0	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0

Hole section: 24"

WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings							Rheo	PV	YP	Gel0	Gel10	
	[m]			Visc	Out								Test						
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
03-nov-1994 23:59	588	588	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0
04-nov-1994 23:59	997	997	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0
05-nov-1994 23:59	1360	1360	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0
06-nov-1994 23:59	1360	1360	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0
07-nov-1994 23:59	1360	1360	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0
08-nov-1994 23:59	1360	1360	SPUD MUD	100.0	1.05	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	Gel0	Gel10	
	[m]			Visc	Out								Test						
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
09-nov-1994 23:59	1363	1363	KCL/POLYME	62.0	1.41	0.0	68	45	33	20			5	4	50.0	23.0	11.0	2.0	2.0
10-nov-1994 23:59	1510	1510	KCL/POLYME	91.0	1.41	0.0	105	66	51	31			5	3	50.0	39.0	13.5	1.5	2.5
11-nov-1994 23:59	1870	1870	KCL/POLYME	111.0	1.43	0.0	116	80	64	40			10	6	50.0	36.0	22.0	4.0	5.0
12-nov-1994 23:59	2240	2240	KCL/POLYME	91.0	1.43	0.0	131	88	76	45			8	6	50.0	43.0	22.5	3.0	4.0
13-nov-1994 15:30	2362	2362	KCL/POLYME	92.0	1.43	0.0	133	87	68	44			8	6	50.0	46.0	20.5	3.0	4.0
14-nov-1994 23:00	2367	2367	KCL/POLYME	88.0	1.43	0.0	110	73	56	36			8	6	50.0	37.0	18.0	3.0	4.0
15-nov-1994 23:59	2453	2453	KCL/POLYME	88.0	1.43	0.0	121	82	64	44			8	6	50.0	39.0	21.5	3.0	5.0
16-nov-1994 22:00	2491	2491	KCL/POLYME	86.0	1.43	0.0	122	83	64	43			9	6	50.0	39.0	22.0	3.0	5.0

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

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 30/8-1S

Hole section: 17 1/2" WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings						Rheo	PV	YP	Gel0	Gel10	
	[m]			Visc		Out	600	300	200	100	60	30	6	3	Test			
	MD	TVD		[sec]	[sg]	[DegC]								[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
17-nov-1994 22:30	2610	2610	KCL/POLYME	81.0	1.43	0.0	137	96	79	55		11	7	50.0	41.0	27.5	7.0	3.5
18-nov-1994 22:30	2696	2696	KCL/POLYME	74.0	1.43	0.0	132	90	72	51		11	8	50.0	42.0	24.0	4.0	6.5
19-nov-1994 16:00	2716	2716	KCL/POLYME	85.0	1.43	0.0	134	91	72	50		10	6	50.0	43.0	24.0	4.0	6.5
20-nov-1994 16:00	2716	2716	KCL/POLYME	85.0	1.43	0.0	134	91	73	50		10	6	50.0	43.0	24.0	4.0	6.5
21-nov-1994 16:00	2716	2716	KCL/POLYME	85.0	1.43	0.0	134	91	73	50		10	6	50.0	43.0	24.0	4.0	6.5
22-nov-1994 16:00	2716	2716	KCL/POLYME	85.0	1.43	0.0	134	91	73	50		10	6	50.0	43.0	24.0	4.0	6.5

Hole section: 12 1/4" WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings						Rheo	PV	YP	Gel0	Gel10	
	[m]			Visc		Out	600	300	200	100	60	30	6	3	Test			
	MD	TVD		[sec]	[sg]	[DegC]								[DegC]	[mPas]	[Pa]	[Pa]	[Pa]
23-nov-1994 22:00	2790	2789	KCL/POLYME	76.0	1.27	0.0	94	64	50	35		7	4	50.0	30.0	17.0	2.0	3.0
24-nov-1994 22:00	2980	2975	KCL/POLYME	68.0	1.27	0.0	92	61	50	35		7	4	50.0	31.0	15.0	2.0	3.5
25-nov-1994 23:15	3040	3032	KCL/POLYME	76.0	1.27	0.0	102	69	53	36		8	5	50.0	33.0	18.0	2.5	3.5
26-nov-1994 21:00	3189	3165	KCL/POLYME	69.0	1.27	0.0	102	69	51	35		7	4	50.0	33.0	18.0	2.5	4.0
27-nov-1994 21:30	3189	3165	KCL/POLYME	62.0	1.27	0.0	96	64	51	34		7	4	50.0	32.0	16.0	2.5	4.0
28-nov-1994 22:00	3315	3264	KCL/POLYME	67.0	1.27	0.0	106	72	58	38		8	5	50.0	34.0	19.0	3.0	4.0
29-nov-1994 22:00	3457	3370	KCL/POLYME	66.0	1.27	0.0	110	75	59	41		8	5	50.0	35.0	20.0	3.0	4.5
30-nov-1994 23:30	3457	3370	KCL/POLYME	68.0	1.35	0.0	116	78	63	42		8	5	50.0	38.0	20.0	3.0	4.5
01-dec-1994 23:00	3461	3373	KCL/POLYME	92.0	1.35	0.0	114	76	61	41		8	6	50.0	38.0	19.0	3.0	4.5
02-dec-1994 23:00	3532	3425	KCL/POLYME	82.0	1.35	0.0	116	77	60	39		8	6	50.0	39.0	19.0	3.0	4.0
03-dec-1994 23:00	3532	3425	KCL/POLYME	94.0	1.35	0.0	116	77	60	39		8	6	50.0	39.0	19.0	3.0	4.0
04-dec-1994 23:00	3532	3425	KCL/POLYME	78.0	1.55	0.0	120	80	61	40		8	6	50.0	40.0	20.0	3.0	4.0
05-dec-1994 23:59	3532	3425	KCL/POLYME	81.5	1.55	0.0	120	80	61	40		8	6	50.0	40.0	20.0	3.0	4.0
06-dec-1994 23:59	3573	3455	KCL/POLYME	86.0	1.55	0.0	123	80	62	41		7	5	50.0	43.0	18.5	3.0	4.0
07-dec-1994 23:59	3603	3477	KCL/POLYME	92.0	1.55	0.0	130	83	62	40		7	5	50.0	47.0	18.0	2.5	3.5

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

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 30/8-1S

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]	Gel10 [Pa]	Gel110 [Pa]		
	MD	TVD					600	300	200	100	60	30	6	3						
08-dec-1994	23:59	3621	3491	KCL/POLYME	87.0	1.55	0.0	127	80	59	40			6	4	50.0	47.0	16.5	3.0	4.0
09-dec-1994	23:59	3645	3508	KCL/POLYME	93.0	1.55	0.0	125	82	62	40			7	5	50.0	43.0	19.5	3.0	4.0
10-dec-1994	23:59	3678	3532	KCL/POLYME	90.0	1.55	0.0	122	80	59	39			6	4	50.0	42.0	19.0	3.0	4.0
11-dec-1994	23:59	3710	3556	KCL/POLYME	90.0	1.55	0.0	119	76	59	39			7	5	50.0	43.0	16.5	3.0	4.0
12-dec-1994	23:59	3740	3578	KCL/POLYME	92.0	1.55	0.0	119	76	59	38			7	5	50.0	43.0	16.5	3.0	4.0
13-dec-1994	23:59	3753	3587	KCL/POLYME	92.0	1.55	0.0	124	81	62	40			7	5	50.0	43.0	19.0	3.0	4.0
14-dec-1994	23:59	3754	3588	KCL/POLYME	90.0	1.55	0.0	123	80	61	40			7	5	50.0	43.0	18.5	3.0	4.0
15-dec-1994	23:59	3853	3663	KCL/POLYME	68.0	1.55	0.0	117	75	58	38			7	5	50.0	42.0	16.5	2.5	4.0
16-dec-1994	23:59	3865	3673	KCL/POLYME	68.0	1.55	0.0	110	71	55	36			7	5	50.0	39.0	16.5	3.0	3.5
17-dec-1994	23:59	3865	3673	KCL/POLYME	65.0	1.55	0.0	110	73	57	38			8	5	50.0	37.0	18.0	2.5	3.5
18-dec-1994	23:59	3945	3736	KCL/POLYME	73.0	1.55	0.0	127	83	66	43		10	7	50.0	44.0	19.5	3.5	5.0	
19-dec-1994	23:59	3945	3736	KCL/POLYME	80.0	1.55	0.0	111	77	60	41			7	6	50.0	34.0	21.5	3.0	4.0
20-dec-1994	23:00	4038	3811	KCL/POLYME	67.0	1.55	0.0	114	77	61	40			8	6	50.0	37.0	20.0	3.0	5.0
21-dec-1994	23:30	4055	3826	KCL/POLYME	70.0	1.65	0.0	112	74	58	38			7	5	50.0	38.0	18.0	3.0	4.5
22-dec-1994	21:00	4055	3826	KCL/POLYME	81.0	1.65	0.0	114	77	61	40			7	5	50.0	37.0	20.0	3.5	5.0
23-dec-1994	23:00	4123	3884	KCL/POLYME	62.0	1.65	0.0	120	78	61	43			8	5	50.0	42.0	18.0	3.0	5.0
24-dec-1994	22:30	4172	3926	KCL/POLYME	63.0	1.65	0.0	120	78	60	41			7	5	50.0	42.0	18.0	3.0	5.0
25-dec-1994	22:30	4172	3926	KCL/POLYME	81.0	1.65	0.0	122	81	63	43			8	6	50.0	41.0	20.0	3.0	5.0
26-dec-1994	22:30	4172	3926	KCL/POLYME	84.0	1.65	0.0	126	83	65	43			8	6	50.0	43.0	20.0	3.5	5.0
27-dec-1994	23:00	4172	3926	KCL/POLYME	79.0	1.65	0.0	130	87	68	45			8	6	50.0	43.0	22.0	3.5	5.0
28-dec-1994	23:00	4172	3926	KCL/POLYME	80.0	1.65	0.0	123	79	64	40			7	5	50.0	44.0	17.5	3.0	5.0
29-dec-1994	23:00	4172	3926	KCL/POLYME	86.0	1.65	0.0	130	86	64	44			8	6	50.0	44.0	21.0	3.0	5.0
30-dec-1994	23:00	4172	3926	KCL/POLYME	86.0	1.65	0.0	128	84	63	41			8	6	50.0	44.0	20.0	3.0	6.0
31-dec-1994	22:00	4172	3926	KCL/POLYME	91.0	1.65	0.0	130	86	64	43			8	6	50.0	44.0	21.0	3.0	6.0
01-jan-1995	22:00	4172	3926	KCL/POLYME	87.0	1.65	0.0	128	86	63	43			8	6	50.0	42.0	22.0	3.0	4.5
02-jan-1995	22:00	4172	3926	KCL/POLYME	81.0	1.65	0.0	132	87	64	44			7	6	50.0	45.0	21.0	3.5	4.5
03-jan-1995	22:00	4172	3926	KCL/POLYME	81.0	1.65	0.0	132	87	64	44			7	6	50.0	45.0	21.0	3.5	4.5
04-jan-1995	22:00	4194	3945	KCL/POLYME	72.0	1.70	0.0	132	86	65	42			8	5	50.0	46.0	20.0	3.0	5.5

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

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 30/8-1S

Hole section: 12 1/4" WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings								Rheo	PV	YP	Gel0	Gel10	
	[m]			Visc	Out									Test						
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]	
05-jan-1995	22:00	4205	3954	KCL/POLYME	74.0	1.70	0.0	134	86	66	43			8	6	50.0	48.0	19.0	3.0	6.5
06-jan-1995	23:30	4205	3954	KCL/POLYME	78.0	1.70	0.0	123	76	58	37			7	5	50.0	47.0	14.5	3.0	5.0
07-jan-1995	21:30	4226	3972	KCL/POLYME	70.0	1.70	0.0	128	82	61	38			8	6	50.0	46.0	18.0	3.5	7.0
08-jan-1995	21:30	4237	3980	KCL/POLYME	70.0	1.70	0.0	124	77	56	35			7	5	50.0	47.0	15.0	2.5	5.5
09-jan-1995	21:00	4247	3988	KCL/POLYME	64.0	1.70	0.0	110	71	55	39			6	4	50.0	39.0	16.0	2.5	5.0
10-jan-1995	22:30	4332	4056	KCL/POLYME	69.0	1.70	0.0	113	73	53	32			6	4	50.0	40.0	16.5	2.5	4.5
11-jan-1995	22:30	4332	4056	KCL/POLYME	76.0	1.74	0.0	128	79	60	34			6	4	50.0	49.0	15.0	2.5	4.5
12-jan-1995	22:30	4332	4056	KCL/POLYME	83.0	1.74	0.0	130	80	58	33			6	4	50.0	50.0	15.0	2.5	4.5
13-jan-1995	22:30	4332	4056	KCL/POLYME	86.0	1.74	0.0	115	73	55	34			6	4	50.0	42.0	15.5	2.0	4.5
14-jan-1995	22:30	4332	4056	KCL/POLYME	88.0	1.74	0.0	120	75	85	37			6	4	50.0	45.0	15.0	2.5	5.0
15-jan-1995	22:30	4332	4056	KCL/POLYME	85.0	1.74	0.0	122	75	61	39			6	4	50.0	47.0	14.0	2.5	5.0
16-jan-1995	21:00	4332	4056	KCL/POLYME	88.0	1.74	0.0	124	77	60	38			6	4	50.0	47.0	15.0	2.5	5.0
17-jan-1995	21:00	4332	4056	KCL/POLYME	88.0	1.74	0.0	122	75	57	36			6	4	50.0	47.0	14.0	2.0	4.5
18-jan-1995	21:00	4332	4056	KCL/POLYME	88.0	1.74	0.0	122	75	57	36			6	4	50.0	47.0	14.0	2.0	4.5
19-jan-1995	23:00	4332	4056	KCL/POLYME	86.0	1.74	0.0	122	75	57	36			6	4	50.0	47.0	14.0	2.0	4.5
20-jan-1995	23:00	4332	4056	KCL/POLYME	86.0	1.74	0.0	122	75	57	36			6	4	50.0	47.0	14.0	2.0	4.5
21-jan-1995	23:59	4335	4058	KCL/POLYME	86.0	1.74	0.0	122	75	57	36			6	4	50.0	47.0	14.0	2.0	4.5
22-jan-1995	23:59	4335	4058	KCL/POLYME	86.0	1.74	0.0	122	75	57	36			6	4	50.0	47.0	14.0	2.0	4.5
23-jan-1995	23:59	4335	4058	KCL/POLYME	86.0	1.74	0.0	122	75	57	36			6	4	50.0	47.0	14.0	2.0	4.5
24-jan-1995	23:59	4335	4058	KCL/POLYME	55.0	1.74	0.0	55	33	22	12			3	2	50.0	22.0	5.5	2.0	4.5

Hole section: 8 3/8" WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings								Rheo	PV	YP	Gel0	Gel10	
	[m]			Visc	Out									Test						
	MD	TVD		[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]	[Pa]	[Pa]	
25-jan-1995	23:59	4337	4060	HIGH TEMPE	63.0	1.74	0.0	83	47	33	18			3	2	50.0	36.0	5.5	2.0	2.5
26-jan-1995	23:59	4464	4162	HIGH TEMPE	71.0	1.74	0.0	100	58	43	25			4	3	50.0	42.0	8.0	1.5	3.5

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

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 30/8-1S

Hole section: 8 3/8"

WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings								Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel10 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6	3						
	[m]	[m]					[Pa]	[Pa]	[Pa]	[Pa]	[Pa]	[Pa]	[Pa]	[Pa]	[Pa]	[Pa]	[Pa]	[Pa]		
27-jan-1995	23:30	4602	4277	HIGH TEMPE	72.0	1.74	0.0	110	64	47	26			4	3	50.0	46.0	9.0	2.0	4.0
28-jan-1995	23:00	4602	4277	HIGH TEMPE	69.0	1.74	0.0	113	66	49	30			5	3	50.0	47.0	9.5	2.0	4.5
29-jan-1995	23:00	4688	4348	HIGH TEMPE	95.0	2.10	0.0	168	99	72	43			6	4	50.0	69.0	15.0	2.5	7.5
30-jan-1995	23:00	4688	4348	HIGH TEMPE	86.0	2.05	0.0	136	78	59	34			5	3	50.0	58.0	10.0	2.0	5.5
31-jan-1995	23:59	4688	4348	HIGH TEMPE	124.0	2.00	0.0	116	69	46	27			5	3	50.0	47.0	11.0	2.0	3.5
01-feb-1995	23:59	4688	4348	HIGH TEMPE	81.0	2.00	0.0	115	67	48	29			5	3	50.0	48.0	9.5	2.0	3.5
02-feb-1995	23:59	4688	4348	HIGH TEMPE	81.0	2.03	0.0	110	63	45	26			5	3	50.0	47.0	8.0	2.0	3.5
03-feb-1995	23:59	4688	4348	HIGH TEMPE	87.0	2.05	0.0	138	79	57	34			6	4	50.0	59.0	10.0	2.5	4.5
04-feb-1995	23:59	4688	4348	HIGH TEMPE	85.0	2.05	0.0	134	77	56	33			5	3	50.0	59.0	10.0	2.5	4.5
05-feb-1995	23:59	4688	4348	HIGH TEMPE	91.0	2.03	0.0	140	83	62	39			7	5	50.0	57.0	13.0	3.0	7.0
06-feb-1995	23:59	4688	4348	HIGH TEMPE	89.0	2.05	0.0	145	88	65	40			7	5	50.0	57.0	15.5	3.0	5.0
07-feb-1995	23:59	4688	4348	HIGH TEMPE	95.0	2.05	0.0	140	85	63	38			7	5	50.0	55.0	15.0	3.0	5.0
08-feb-1995	23:59	4688	4348	HIGH TEMPE	95.0	2.05	0.0	143	85	65	35			7	5	50.0	58.0	13.5	3.0	5.5
09-feb-1995	23:59	4688	4348	HIGH TEMPE	93.0	2.05	0.0	148	90	65	35			7	5	50.0	58.0	16.0	3.0	5.5
10-feb-1995	23:59	4688	4348	HIGH TEMPE	90.0	2.03	0.0	118	71	53	33			6	4	50.0	47.0	12.0	2.0	4.5
11-feb-1995	23:59	4688	4348	HIGH TEMPE	80.0	2.03	0.0	138	85	64	41			7	5	50.0	53.0	16.0	3.0	6.0
12-feb-1995	23:59	4688	4348	HIGH TEMPE	120.0	2.05	0.0	159	100	76	49			8	6	50.0	59.0	20.5	4.5	25.0
13-feb-1995	23:59	4688	4348	HIGH TEMPE	70.0	2.05	0.0	115	70	53	34			10	8	50.0	45.0	12.5	4.5	25.0
14-feb-1995	23:59	4688	4348	HIGH TEMPE	74.0	2.05	0.0	116	70	53	33			7	5	50.0	46.0	12.0	4.5	14.0
15-feb-1995	23:59	4688	4348	HIGH TEMPE	88.0	2.05	0.0	120	72	56	35			7	5	50.0	48.0	12.0	5.0	14.0
16-feb-1995	23:59	4688	4348	HIGH TEMPE	88.0	2.05	0.0	100	60	49	31			5	4	50.0	40.0	10.0	4.0	13.0
17-feb-1995	23:59	4688	4348	HIGH TEMPE	88.0	2.05	0.0	100	60	49	31			6	4	50.0	40.0	10.0	3.0	14.0
18-feb-1995	23:59	4688	4348	HIGH TEMPE	88.0	2.05	0.0	109	67	51	40			6	5	50.0	42.0	12.5	3.0	14.0
19-feb-1995	23:59	4688	4348	HIGH TEMPE	88.0	2.05	0.0	118	70	52	33			6	4	50.0	48.0	11.0	3.0	10.0
20-feb-1995	23:59	4688	4348	HIGH TEMPE	91.0	2.05	0.0	122	73	52	35			5	4	50.0	49.0	12.0	2.0	14.0
21-feb-1995	23:59	4688	4348	HIGH TEMPE	93.0	2.05	0.0	115	68	46	28			6	3	50.0	47.0	10.5	3.0	12.0
22-feb-1995	23:59	4688	4348	HIGH TEMPE	93.0	2.05	0.0	115	68	46	28			6	3	50.0	47.0	10.5	3.0	12.0
23-feb-1995	23:59	4688	4348	HIGH TEMPE	152.0	2.05	0.0	208	126	61	37			22	18	50.0	82.0	22.0	9.5	18.0

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

Norsk Hydro

DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS FOR WELL 30/8-1S

Hole section: 8 3/8"

WATER BASED SYSTEM

Date	Depth		Mud Type	Funnel	Dens	Mudtmp	Fann Readings						Rheo	PV	YP	Gel10	Gel110			
	[m]	MD		TVD	Visc	Out	[sec]	[sg]	[DegC]	600	300	200	100	60	30	6	3	[DegC]	[mPas]	[Pa]
24-feb-1995 23:59	4688	4348	HIGH TEMPE	79.0	2.05	0.0	129	81	60	41			7	5	50.0	48.0	16.5	4.0	22.0	
25-feb-1995 23:59	4688	4348	HIGH TEMPE	79.0	2.05	0.0	129	81	60	41			7	5	50.0	48.0	16.5	4.0	22.0	
26-feb-1995 10:00	4688	4348	HIGH TEMPE	80.0	2.05	0.0	128	80	59	41			7	5	50.0	48.0	16.0	4.0	21.0	
27-feb-1995 10:00	0		HIGH TEMPE	89.0	2.05	0.0									0.0	0.0	0.0	0.0	0.0	

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

Norsk Hydro

DAILY MUD PROPERTIES : OTHER PARAMETERS FOR WELL 30/8-1S

Hole section: 32*

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate		Filt.cake		HPHT Press/Temp [psi/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]
				API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							hard [%]	Solid [%]	Oil [%]			
02-nov-1994 23:59	0	0	SPUD MUD	1.05	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: 24*

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate		Filt.cake		HPHT Press/Temp [psi/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]
				API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							hard [%]	Solid [%]	Oil [%]			
03-nov-1994 23:59	588	588	SPUD MUD	1.05	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
04-nov-1994 23:59	997	997	SPUD MUD	1.05	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
05-nov-1994 23:59	1360	1360	SPUD MUD	1.05	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
06-nov-1994 23:59	1360	1360	SPUD MUD	1.05	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
07-nov-1994 23:59	1360	1360	SPUD MUD	1.05	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
08-nov-1994 23:59	1360	1360	SPUD MUD	1.05	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 [sg]	Filtrate		Filt.cake		HPHT Press/Temp [psi/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	
				API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							hard [%]	Solid [%]	Oil [%]				Sand [%]
09-nov-1994 23:59	1363	1363	KCL/POLYME	1.41	3.5	14.4	1	0	35/110	8.8	0.0	0.1	0.5	127	66421	65000	300	0	360	16.0	0.0	0.5	15	0.0	27
10-nov-1994 23:59	1510	1510	KCL/POLYME	1.41	1.8	17.4	1	0	35/110	8.5	0.0	0.1	0.6	118	61714	66000	320	0	420	16.5	0.0	0.5	15	0.0	70
11-nov-1994 23:59	1870	1870	KCL/POLYME	1.43	2.4	12.4	1	0	35/110	8.5	0.0	0.1	0.5	116	62760	64000	400	0	510	17.0	0.0	0.5	24	0.0	50
12-nov-1994 23:59	2240	2240	KCL/POLYME	1.43	2.3	13.0	1	0	35/110	8.5	0.0	0.5	0.5	103	53869	58000	400	0	560	17.0	0.0	0.5	28	0.0	64
13-nov-1994 15:30	2362	2362	KCL/POLYME	1.43	2.3	13.2	1	0	35/110	8.2	0.0	0.0	0.5	107	59380	60000	420	0	640	17.2	0.0	0.5	30	0.0	60
14-nov-1994 23:00	2367	2367	KCL/POLYME	1.43	2.3	13.4	1	0	35/110	8.5	0.0	0.5	0.4	116	60688	64000	510	0	640	17.0	0.0	0.5	31	0.0	50
15-nov-1994 23:59	2453	2453	KCL/POLYME	1.43	2.3	13.6	1	0	35/110	8.0	0.0	0.0	0.4	113	59099	64000	550	0	685	17.5	0.0	0.5	31	0.0	77
16-nov-1994 22:00	2491	2491	KCL/POLYME	1.43	2.4	13.4	1	0	35/110	8.4	0.0	0.1	0.5	117	61191	65000	320	0	660	17.5	0.0	0.5	28	0.0	75
17-nov-1994 22:30	2610	2610	KCL/POLYME	1.43	2.8	14.0	1	0	35/110	8.0	0.0	0.0	0.5	110	61714	65000	320	0	660	18.5	0.0	0.5	47	0.0	110
18-nov-1994 22:30	2696	2696	KCL/POLYME	1.43	2.6	13.6	1	0	35/110	8.0	0.0	0.0	0.5	119	62237	66000	360	0	500	18.0	0.0	0.5	37	0.0	99
19-nov-1994 16:00	2716	2716	KCL/POLYME	1.43	2.6	13.6	1	0	35/110	8.0	0.0	0.0	0.5	125	65375	71000	300	0	400	18.0	0.0	0.5	33	0.0	87
20-nov-1994 16:00	2716	2716	KCL/POLYME	1.43	2.6	13.6	1	0	35/110	8.0	0.0	0.0	0.5	125	65375	71000	300	0	400	18.0	0.0	0.5	33	0.0	87
21-nov-1994 16:00	2716	2716	KCL/POLYME	1.43	2.6	13.6	1	0	35/110	8.0	0.0	0.0	0.5	125	65375	71000	300	0	400	18.0	0.0	0.5	33	0.0	87
22-nov-1994 16:00	2716	2716	KCL/POLYME	1.43	2.6	13.6	1	0	35/110	8.0	0.0	0.0	0.5	125	65375	71000	300	0	400	18.0	0.0	0.5	33	0.0	87

Hole section: 12 1/4*

WATER BASED SYSTEM

Date	Depth [m]	Mud Type	Dens [sg]	Filtrate		Filt.cake		HPHT Press/Temp [psi/DegC]	pH	Alcalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]	
				API [ml]	HPHT [ml]	API [mm]	HPHT [mm]			Pm [ml]	Pf [ml]	Mf [ml]							hard [%]	Solid [%]	Oil [%]				Sand [%]
23-nov-1994 22:00	2790	2789	KCL/POLYME	1.27	3.2	12.0	1	0	35/110	9.9	0.0	0.2	0.6	100	52300	52000	940	0	800	13.0	0.0	0.5	28	0.0	124
24-nov-1994 22:00	2980	2975	KCL/POLYME	1.27	3.4	12.0	1	0	35/110	9.0	0.0	0.1	0.3	100	52300	51000	480	0	640	12.5	0.0	0.4	28	0.0	100
25-nov-1994 23:15	3040	3032	KCL/POLYME	1.27	2.8	12.0	1	0	35/110	8.6	0.0	0.1	0.3	95	49685	54000	360	0	520	13.5	0.0	0.6	36	0.0	146
26-nov-1994 21:00	3189	3165	KCL/POLYME	1.27	2.8	12.8	1	0	35/110	8.1	0.0	0.1	0.3	105	54915	56000	360	0	460	12.5	0.0	0.3	30	0.0	91

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

Norsk Hydro

DAILY MUD PROPERTIES : OTHER PARAMETERS FOR WELL 30/8-1S

Hole section: 8 3/8"		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					hard	Solid	Oil	Sand						
	MD	TVD		[API]	[HPHT]	[API]	[HPHT]	Press	Temp											[Kg/m3]	[sg]	[Kg/m3]			
14-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.5	17.0	0	2	35/140	9.3	0.8	0.5	5.1	0	0	6000	80	0	0	0.33.0	0.0	0.8	19	0.0	29
15-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.5	17.0	0	2	35/140	9.2	0.7	0.3	4.8	0	0	6000	100	0	0	0.33.5	0.0	0.6	19	0.0	55
16-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.6	16.8	0	2	35/140	8.8	0.5	0.3	4.0	0	0	5800	100	0	0	0.33.5	0.0	0.6	19	0.0	56
17-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.6	16.5	0	2	35/140	8.8	0.5	0.3	5.8	0	0	5500	100	0	0	0.33.5	0.0	0.6	19	0.0	56
18-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.4	15.5	0	1	35/140	8.4	0.6	0.3	5.0	0	0	5800	90	0	0	0.33.5	0.0	0.6	19	0.0	56
19-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.2	14.0	0	1	35/140	8.4	0.2	0.3	4.3	0	0	5800	90	0	0	0.33.5	0.0	1.0	19	0.0	56
20-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.3	14.0	0	1	35/140	8.5	0.2	0.3	4.3	0	0	5800	110	0	0	0.33.5	0.0	1.0	20	0.0	56
21-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.3	14.0	0	1	35/140	8.6	0.4	0.2	3.7	0	0	5500	320	0	0	0.33.5	0.0	1.0	24	0.0	56
22-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.3	14.0	0	1	35/140	8.6	0.4	0.2	3.7	0	0	5500	320	0	0	0.33.5	0.0	1.0	24	0.0	56
23-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	2.0	14.8	0	1	35/140	9.1	1.1	0.6	3.2	0	0	5500	820	0	0	0.33.5	0.0	1.0	22	0.0	56
24-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.8	15.0	0	1	35/140	9.1	1.1	0.3	3.2	0	0	5500	580	0	0	0.34.0	0.0	1.0	22	0.0	82
25-feb-1995 23:59	4688	4348	HIGH TEMPE	2.05	1.8	15.0	0	1	35/140	9.1	1.1	0.3	3.2	0	0	5500	580	0	0	0.34.0	0.0	1.0	22	0.0	82
26-feb-1995 10:00	4688	4348	HIGH TEMPE	2.05	2.0	15.1	0	1	35/140	9.2	1.1	0.3	3.3	0	0	5500	600	0	0	0.34.1	0.0	1.0	22	0.0	82
27-feb-1995 10:00	0		HIGH TEMPE	2.05	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

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