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HYDRO

FORMATION PRESSURE WORKSHEET

Well No. : 6507/2-2 | Rig : Polar Pioneer | Date : 09.12.91

Pressure Units : bar | RKB-MSL : 23 m | Witnessed by : T.Stump

Run No. / Test 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	2818.5	2818.1	472.02	472.00	dry test		472.07	472.17	01:18	01:20	85.7°C tight/dry
2A/ 2	2821.5	2821.1	472.92	472.85	371.42	371.22	472.54	472.46	01:26	01:34	86.4°C 3.86 MD/CP
2A/ 3	2823.0	2822.6	473.00	472.92	374.49	374.16	472.96	472.89	01:44	01:48	86.9°C 20.46 MD/CP
2A/ 4	2825.0	2824.5	473.48	473.39	seal failure						87.1°C seal failure
2A/ 5	2824.6	2824.1	473.27	473.16	374.58	374.20	473.24	473.13	02:07	02:10	87.3°C 80.06 MD/CP
2A/ 6	2827.5	2827.1	473.92	473.80	374.59	374.23	473.86	473.71	02:22	02:25	87.5°C 16.86 MD/CP
2A/ 7	2829.5	2829.1	474.13	474.07	374.72	374.35	474.04	473.93	02:39	02:43	87.7°C 283.38 MD/CP
2A/ 8	3264.5	3262.6	545.22	545.61	dry test						110.7°C tight/dry
2A/ 9	3265.5	3263.5	545.60	545.80	479.38	479.42*	545.39	545.58	03:36	03:41	113.0°C 1.98 MD/CP
2A/10	3269.5	3267.6	546.31	546.57	dry test/tight						114.5°C tight/dry
2A/11	3271.0	3269.1	546.48	546.74	482.37	482.41*	546.00	546.22	04:11	04:20	115.4°C 4.50 MD/CP
2A/12	3270.5	3268.6	546.11	546.33	479.12	479.23	545.93	546.36	04:29	05:01	116.2°C SAMPLE 2-3/4 gl
2A/13	3275.5	3273.6	547.16	547.55	dry test						118.7°C tight/dry

* Formation pressures never stabilized and are therefore unreliable

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FORMATION PRESSURE WORKSHEET

Well No. : 6507/2-2 | Rig : Polar Pioneer | Date : 09.12.91

Pressure Units : bar | RKB-MSL : 23 m | Witnessed by : T.Stump

Run No. / Test 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/14	3281.0	3279.1	548.42	548.90	479.31	479.59	548.20	548.57	05:33	05:38	118.7°C 20.54 MD/CP
2A/15	3286.0	3284.1	549.05	549.49	dry test/tight						119.7°C tight/dry
2A/16	3289.0	3287.1	549.55	549.96	dry test/tight						120.6°C tight/dry
2A/17	3292.5	3290.7	550.07	550.76	dry test/tight						122.5°C tight/dry
Sample taken at 3281.0m in 1 gal chamber											

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FORMATION FLUID SAMPLING

Well : 6507/2-2

Rig : Polar Pioneer

Pretest Nos. :	Sample Depth :	Witnesses :
2A/12, 2A/14	3270.5m (2-3/4 gal) 3281.0m (1 gal)	T. Stump

Run No. : 2A / Sample No. :	1st Chamber	2nd Chamber	3rd Chamber
Chamber volume (gals/litres)	2-3/4 gal	1 gal	
Chamber No.		RFS-AB 1242	
Filling time (mins.)	24 (then closed)	16	
Shut in press. (bar)/T deg C	13.33 / 118	477.47 / 126.8	/
Chamber press. (surf bar)/T	0 / 10	0 / 10	/
Gas volume (SCF/Sm3)	0		
Oil volume (litres)	0		
Oil gravity (API/gm/cc)			
Water / Filtrate (litres)	1.8		
Water / Filtrate PPM CL-	51000		
Water filtrate pH/pF/Ca++	2.86 / tr / 160	/ /	/ /
Mud filtrate PPM CL-	68000		
Mud filtrate pH/pF/Ca++	8.7 / 0.2 / 180	/ /	/ /
Gas composition % C1			
C2			
C3			
IC4			
NC4			
H2S			
CO2			

Remarks :

One gallon chamber sent to shorebase unopened

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FORMATION PRESSURE WORKSHEET

Well No. : 6507/2-2 | Rig : Polar Pioneer | Date : 10.12.91

Pressure Units : Bar | RKB-MSL : 23 m | Witnessed by : L.Beckman

Run No. / Test No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks	
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	Temp.	Perm.(MD)
2 B / 1	2825.0	2824.5	473.49	473.47	374.63	374.32	-	-	12:17	12:20	90.5	227.7
Sample	2825.0	"	Seg. sample w/ 2 3/4 gal and 1 gal chambers						12:29	13:13	92.9	
2 B / 2	3264.5	3262.6	545.54	545.91	Dry test		-	-	14:03	14:08	108.3	-
2 B / 3	3265.0	3263.1	545.74	545.77	Limited drawdown		-	-	14:14	14:20	113.4	6.32
2 B / 4	3265.8	3263.9	545.91	546.10	479.25	479.26	545.77	545.90	14:24	14:42	115.0	6.31
2 B / 5	3271.5	3269.6	547.01	547.14	479.08	479.01	546.97	547.07	14:57	15:00	116.0	41.35
2 B / 6	3279.5	3277.6	548.44	548.82	Dry test		-	-	15:15	15:17	116.6	-
2 B / 7	3282.0	3280.1	548.80	549.18	479.36	479.45	548.77	548.97	15:30	15:32	117.2	41.90
2 B / 8	3285.5	3283.6	549.37	549.66	Dry test		-	-	15:44	15:46	-	-
2 B / 9	3287.3	3285.4	549.66	550.00	Dry test		-	-	15:57	15:59	118.2	-
2 B / 10	3290.0	3288.1	550.07	550.37	479.57	479.66	550.03	550.24	16:10	16:14	118.5	9.28
2 B / 11	3292.3	3290.4	550.46	550.83	Seal failure		-	-	16:25		118.9	-
2 B / 12	3292.7	3290.8	550.49	550.84	479.90	480.00	550.44	550.67	16:37	16:41	119.0	15.41

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FORMATION FLUID SAMPLING

Well : 6507/2-2

Rig : Polar Pioneer

Pretest No. :2B/1	Sample Depth : 2825 m	Witnesses : L.Beckman

Run No. : 2B	Sample No. :	1st Chamber	2nd Chamber	3rd Chamber
Chamber volume (gals)		2-3/4 gal	1 gal	
Chamber No.			RFS-AB 1153	
Filling time (mins.)		24	11	
Shut in press. (bar)/T deg C		374.38 / 92.9°	374.44 / 92.9°	/
Chamber press. (surf bar)/T		215 / 6	70 / 6	/
Gas volume (SCF)		67		
Oil volume (litres)		Nil		
Oil gravity (API/gm/cc)		-		
Water / Filtrate (litres)		2		
Water / Filtrate PPM CL-		53000		
Water filtrate pH/pF/Ca++		7 / 0 / 200	/ /	/ /
Mud filtrate PPM CL-		68000		
Mud filtrate pH/pF/Ca++		8.7/ 0.2 / 180	/ /	/ /
Gas composition %	C1	1363100 988750	1267000 1041900	
	C2	48180 32124	39766 33337	
	C3	20970 12635	15707 13018	
	IC4	3350 1692	2703 1701	
	NC4	1832 1182	2068 1398	
	H2S	-		
	CO2	-		

Remarks : 1 gal. chamber sealed for sending to shorebase.

All chromatograph samples from 2-3/4 gal. chamber.

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FORMATION PRESSURE WORKSHEET

Well No. : 6507/2-2 | Rig : Polar Pioneer | Date : 25.01.92

Pressure Units : Bar | RKB-MSL : 23m | Witnessed by : Olbeck \ Kjaersrud

Run No. / Test No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	mD/cp
3C/ 1	3675.1	3672.4	672.677	673.762	643.016	644.005	672.624	673.632	05:40	05:57	Seal fail? 1.03
3C/ 2	3679.1	3676.4	673.402	674.471	631.849	632.666	673.470	674.543	06:22	06:28	6.60
3C/ 3	3681.6	3678.8	674.009	675.114	672.287	673.349	673.977	674.978	06:40	06:45	Supercharged/sealfail.
3C/ 4	3682.5	3679.7	674.131	675.227	677.249	678.234	674.127	675.132	06:57	07:01	Seal failure
3C/ 5	3683.6	3680.8	674.481	675.581	632.202	633.105	674.065	675.549	07:12	07:18	1.89
3C/ 6	3686.8	3684.0	675.047	676.271	632.616	633.441	675.017	676.084	07:28	07:31	13.11
3C/ 7	3675.8	3673.1	672.901	673.936	632.430	633.367	672.866	673.929	08:02	08:15	Supercharged
3C/ 8	3676.8	3674.1	673.140	674.120	631.662	632.448	673.028	674.025	08:27	08:32	26.00
3C/ 9	3691.5	3688.7	675.930	677.064	633.094	633.934	675.960	677.053	08:56	08:59	3.13
3C/10	3693.5	3690.6	676.355	677.504	633.299	634.129	676.344	677.468	09:12	09:14	22.98
3C/11	3707.5	3704.5	679.190	680.365	634.662	635.528	679.251	680.372	09:32	09:37	14.79
3C/12	3747.6	3744.3	686.768	687.963	-	-	688.180	687.787	10:22	10:22	Seal failure
3C/13	3748.6	3745.3	687.497	688.743	638.889	639.662	687.638	688.780	10:40	10:47	13.99
3C/14	3331.1	3329.2	611.830	611.773	523.386	522.942	611.803	611.750	13:09	13:22	8.24

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FORMATION PRESSURE WORKSHEET

Well No. : 6507/2-2 | Rig : Polar Pioneer | Date : 25.01.92

Pressure Units : Bar | RKB-MSL : 23m | Witnessed by : A.Olbeck / Kjaersrud

Run No. / Test No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	
3 C/15	3332.1	3330.2	611.989	611.846	523.203	522.786	612.616		13:30	13:36	43.58

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FORMATION PRESSURE WORKSHEET

Well No. : 6507/2-2 | Rig : Polar Pioneer | Date : 27.01.92

Pressure Units : Bar | RKB-MSL : 23m | Witnessed by : A.Olbeck

Run No. / Test No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	
3D / 1	3331.6		611.435	611.421	522.895	522.594	611.374	611.553	07:42	09:25	Segregated sample
3D / 2	3331.6		611.369	611.429	522.788	522.556	611.395	611.517	09:35	09:38	Free of charge (extra)

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(ooo) FORMATION FLUID SAMPLING
HYDRO

Well : 6507/2-2

Rig : Polar Pioneer

Pretest No. : 3D/1		Sample Depth : 3331.6m	Witnesses : Olbeck / Kjaersrud	
Run No.: 3D	Sample No. : 1	1st Chamber	2nd Chamber	3rd Chamber
Chamber volume (gals/litres)		2-3/4 gal	1 gal	
Chamber No.		RFS BB 1341	RFS AB 1242	
Filling time (mins.)		42 mins	31 mins	
Shut in press. (bar)/T deg C		178.393 / 115	389.146 / 115.7	/
Chamber press. (surf bar)/T		100 / 10°C	180 / 10°C	/
Gas volume (SCF/Sm3)		32.9 SCF		
Oil volume (litres)		-		
Oil gravity (API/gm/cc)		-		
Water / Filtrate (litres)		0.8 litres		
Water / Filtrate PPM CL-				
Water filtrate pH/pF/Ca++		/ /	/ /	/ /
Mud filtrate PPM CL-				
Mud filtrate pH/pF/Ca++		/ /	/ /	/ /
Gas composition %	C1	50.072		
	C2	6.051		
	C3	2.199		
	iC4	0.250		
	nC4	0.390		
	H2S	Not detected		
	CO2	-		

Remarks :

HYDRO	WELL TEST RESULT	WELL: 6507/2-2
TEST NO.	1A	2
PERFORATED INTERVAL	3285.4-3294.4	2820-2831
CHOKE SIZE (mm)	25.4	25.4
OIL/COND. FLOW RATE /Sm^3/D)	107	80
GAS FLOW RATE (Sm^3/D)	676,000	865,000
GOR (Sm^3/Sm^3)	4,950	10,800
OIL/COND. GRAVITY (g/cc) @ 15°C	0.796	0.787
GAS GRAVITY (air=1)	0.63	0.645
FWHP (bar)	84	102.7
SIWHP(bar)	372	298
WHT (deg C)	36.4	24.05
BHT (deg C)	118.44	99.1
BHFP (bar)	275	322.2
BHSIP (bar)	478.2	374.7
BS&W (%)	N/A	N/A
CO2 (%) (Max)	0.65 %	0.7 %
H2S (ppm) (Max)	0.2 PPM	0.1 PPM
K (mD)	30	51
S	5	3
Pi (bar)	N/A	N/A
DEPTH OF BH MEASUREMENTS	3265.0 TVD MSL	2801.6 TVD MSL

6507/2-2.

6.1 MUD REPORT

36" hole section.

The section was drilled riserless with seawater.
High viscous bentonite pills were pumped every 10 m of new hole drilled. The hole was displaced to 1.20 rd. viscous bentonite mud prior to running the 30" casing.

24" hole section.

The section was drilled with seawater and high viscous pills with return to seabed. The hole was displaced to 1 - 20 rd viscous bentonite mud and a wiper trip was made without problems. Additional 1.20 rd viscous bentonite mud was circulated prior to running the 18 5/8" casing.

17 1/2" hole section.

The 18 5/8"shoetrack was drilled out using seawater and high viscous pills. The hole was displaced to 1.25 rd KCl/ Polymer mud prior to performing the leakofftest to 1.48 rd at 688 m.
The section was drilled to the casing point at 1414 m in two bitruns. A wipertrip was made at 1123 m.The hole packed off and several tight spots were reamed while running back in. A 14m^3 high viscous pill was pumped to clean the hole at TD prior to pulling out for running casing. The KCl - concentration was increased from 100 kg/m^3 to 130 kg/m^3 at the end of the section.

12 1/4" hole section.

The mud system from the previous section was used for drilling this section. A KCl-concentration of 120 - 130kg/m^3 was required to stabilize the clay encountered. The mudweight was increased from 1.25 rd to 1.30 rd at 1807 m and further to 1.50 rd at 1959 m and to 1.60 rd at 2750 m. The hole start packing off at 2236 m and high viscous pills were pumped at connections to improve the hole cleaning. During a wipertrip at 2362 m, backreaming to the shoe was required.

Tight spots were encountered from 1550 m to 1660 m on a trip for bitchange. The section was drilled to 2775 m and a high viscous sweep was used to ensure hole cleaning prior to logging.

The CEC increased rapidly up from 28 kg/m^3 to 60 kg/m^3 due to large amount of siltstone drilled. Continuous additions of premixed mud was required to maintain / lower the low gravity slides.

The logging tool did not pass 2050 m on the first attempt. A wipertrip was performed and the mudweight was increased to 1.78 rd due to indications for porepressure greater than estimated. The hole was then logged successfully and the 13 3/8" casing run and cemented.

8 1/2" hole section.

The section was drilled with KCl - mud from the previous section. Centrifuged to lower the density to 1.50 rd. The initial bicarbonate prelocated mud system required further treatment due to severe cement contamination when drilling out the shoe. Citric acid was used in conjunction to control the pH. Controlling the CEC and thereby minimizing a fire build up was achieved by dumping the disilter underflow in conjunction with dilution additions.

A kick was taken at 3336 m and killed by adding 1.78 rd killmud to achieve a final mudweight of 1.70 rd. While circulating out the kick, the drillstring became stuck. An attempt to free the stuck pipe using a Milspot / diesel pill was unsuccessful. The drillstring was backed off at 3174 m, and a cement plug was set from 3034 m to 2860 m.

Sidetrack.

The cement plug was dressed off from 2973 m to 2988 m and contaminated mud was dumped. The calcium and pH was controlled with bicarbonate and citric acid, and the mudweight was maintained at 1.70 rd for the sidetrack. At approximately 3050 m, the HTHP fluid loss was lowered using high temperature polymers to reduce the change of differential sticking. The 7 "liner" was set at 3324 m.

6" hole section.

The section was drilled/cored to 3685 m using 1.75 rd KCl - mud. An influx occurred on the trip out and the mudweight was increased to 1.86 rd. At 3737 m the drillstring twisted off and an attempt of fishing was made without success. After three negative attempts to sidetrack the well, the fish was partly recovered. Drilling then continued to final depth at 3958 m including two cores. The mudweight was kept at 1.86 - 1.88 rd and the KCl - concentration was allowed to deplete from 98 kg/m^3 to 38 kg/m^3 at the end of the section.
A wipertrip was performed after log run no. 7.
The well was plugged back to 3374 m prior to testing.

Testing phase:

1.70 rd mud was used for testing. Same barite settling was discovered after DST no. 2 was completed.

Cement plug no. 4 was reset from 3324 m to 3260 m. On the cleanout run, cement was drilled from 3287 m to 331 m.

A 7" bridgeplug was set at 3307 m when testing against the shearram to 235 bar, the pressure dropped to 145 bar caused by a hole in the 9 5/8" casing at 406 m. The 9 5/8" casing was cut at 654 m, and an attempt to patch was performed. Milling was necessary to engage the spear. A negative attempt to test the patch was performed.
The casing was recut at 664 m and the patch was run and tested.
On the scraperrun, the mudweight was reduced from 1.86 rd to 1.62 rd prior to start the test.

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Norsk Hydro

Daily mud properties — Date 11/8-1992

System : BORE

Well: 6507/2-2
Mud Contractor: ANCHOR DRLG. FLUIDS
Data: "Mid depth" from table 3, otherwise from table 14. 4

Date 11/8-1992

14. 4

Date	Mid. depth m,MD	Mud Dens. (SG)	PV cp	YP Pa	GEL 0 Pa	GEL 10 Pa	pH	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity Pf	Alkalinity Pm	Alkalinity Mf	Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F 600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	Mud Type
920113	3737	1.86	32	9	2	6	9.4	2.3	11.0	39000/	0.30	0.70	1.80	320/	0	30	70	82	50	37	23	3	2	KCL
920114	3737	1.86	32	9	2	5	9.5	2.3	11.8	38500/	0.30	0.60	1.90	660/	0	30	70	81	49	36	22	3	2	KCL
920115	3739	1.86	32	9	2	5	9.3	2.1	11.4	38000/	0.30	0.60	1.70	540/	0	30	70	81	49	36	22	3	2	KCL
920116	3741	1.86	30	8	2	5	8.7	2.2	11.6	37000/	0.20	0.50	1.50	520/	0	29	71	76	46	34	20	3	2	KCL
920117	3751	1.86	30	8	2	5	8.7	2.1	11.4	37000/	0.20	0.50	1.50	480/	0	29	71	76	46	34	20	3	2	KCL
920118	3770	1.86	31	8	2	5	8.4	2.1	11.0	36000/	0.20	0.40	1.40	480/	0	29	71	79	48	35	21	3	2	KCL
920119	3796	1.86	31	9	2	6	8.4	2.1	11.0	36000/	0.20	0.40	1.40	440/	0	29	71	79	48	35	21	3	2	KCL
920120	3910	1.86	31	11	2	5	8.3	1.8	10.0	37000/	0.20	0.20	1.90	380/	0	29	71	81	52	40	25	5	3	KCL
920121	3922	1.86	32	12	2	5	8.6	1.8	10.0	36000/	0.30	0.20	2.10	360/	0	29	71	87	58	42	26	5	3	KCL
920122	3958	1.86	33	11	2	6	8.6	1.6	10.0	35000/	0.30	0.20	2.40	340/	0	29	71	88	55	44	28	5	3	KCL
920123	3958	1.86	32	12	2	6	8.7	1.8		35000/	0.20	0.20	2.40	360/	0	29	71	88	56	45	27	5	3	KCL
920124	3958	1.86	27	10	2	5	8.8	1.8		35000/	0.30	0.20	2.30	340/	0	29	71	75	48	36	22	5	3	KCL
920125	3958	1.86	28	11	2	5	8.7	1.8		35000/	0.30	0.20	2.40	340/	0	29	71	78	50	37	23	5	3	KCL
920126	3958	1.86	29	11	2	6	8.6	1.8	9.6	35000/	0.30	0.20	2.40	360/	0	29	71	80	51	44	28	5	3	KCL
920127	3958	1.86	30	11	2	5	8.7	1.8		35000/	0.30		2.40	340/	0	29	71	81	51	43	26	5	3	KCL
920128	3326	1.86	27	10	2	5	8.8	2.0	10.0	35000/	0.30	0.30	2.50	460/	0	29	71	74	47	38	24	5	3	KCL
920129	3326	1.86	25	10	2	5	8.3	1.8	10.0	33000/	0.20	0.20	3.00	500/	0	29	71	70	45	34	22	4	3	KCL
920130	3312	1.86	26	12	2	5	8.7	2.0	10.0	29000/29000	0.30	0.30	2.80	460/460	0	29	71	75	49	38	25	5	4	KCL
920131	3307	1.86	25	11	2	5	8.6	1.8		27000/27000	0.30	0.20	2.90	440/440		29		72	47	36	22	5	3	KCL
920201	3307	1.86	27	11	2	5	8.6	1.8		27000/27000	0.30	0.20	2.90	440/440		29		75	48	38	25	5	3	KCL
920202	3307	1.86	24	10	2	4	8.5	1.8		26000/26000	0.30	0.20	2.90	460/460		29		68	44	34	22	5	3	KCL
920203	3307	1.86	22	10	2	4	8.5	1.8		26000/26000	0.20	0.20	2.90	460/460		29		66	42	31	20	5	3	KCL
920204	3307	1.86	27	15	3	7	8.5	2.0	9.8	23000/23000	0.30	0.20	2.90	400/400		29		84	57	44	30	7	5	KCL
920205	3307	1.86	25	13	2	6	8.5	2.0		23000/23000	0.30	0.20	2.90	400/400		29		76	51	42	29	7	4	KCL
920206	3307	1.86	26	15	3	6	8.5	2.0		23000/23000	0.30	0.20	2.80	400/400		29		82	56	44	28	5	4	KCL
920207	3307	1.86	27	13	2	6	8.7	2.0		23000/23000	0.30	0.30	3.00	380/380		29		80	53	45	25	6	4	KCL
920208	3307	1.86	25	13	2	5	8.6	2.0		23000/23000	0.30	0.20	3.00	380/380		29		75	50	40	25	5	3	KCL
920209	3307	1.86	26	14	2	6	8.8	2.0		20000/20000	0.30	0.30	3.00	340/340		29		80	54	44	25	6	4	KCL
920210	3307	1.62	14	10	2	6	8.9	2.0		15000/15000	0.20	0.20	2.40	280/280	0	23	77	48	34	23	18	5	3	KCL
920211	3307	1.62	13	9	2	5		2.0	10.4	15000/15000	0.20	0.20	2.40	280/280	0	23	77	44	31	21	17	5	3	KCL
920212	3307	1.62	13	9	2	5	8.9	2.0		15000/15000	0.20	0.20	2.40	280/280	0	23	77	44	31	21	17	5	3	KCL
920213	3283	1.62	13	9	2	5	8.9	2.0	10.4	15000/15000	0.20	0.20	2.40	280/280	0	23	77	44	31	21	17	5	3	KCL
920215	3283	1.62	13	9	2	5	8.8	2.0	10.4	15000/15000	0.20	0.20	2.40	280/280	0	23	77	44	31	21	17	5	3	KCL
920216	3283	1.62	13	9	2	6	8.8	2.0	10.4	15000/15000	0.20	0.20	2.20	280/280	0	23	77	44	31	21	17	5	3	KCL
920218	3283	1.70	22	10	2	6	9.3	2.6	12.0	15000/15000	0.20	0.30	2.40	260/260	0	24	76	69	42	29	22	6	4	KCL
920219	3283	1.70	23	11	2	6	9.3	2.6	12.0	15000/15000	0.20	0.30	2.40	260/260	0	24	76	65	44	30	24	6	4	KCL
920220	3257	1.70	30	15	6	14	9.2	3.0	14.0	16000/16000	0.20	0.20	2.20	280/280	0	23	77	90	60	45	30	15	10	KCL
920221	3257	1.70	30	15	6	14	9.2	3.4	15.0	16000/16000	0.20	0.20	2.20	280/280	0	24	76	90	60	45	30	15	10	KCL
920222	3257	1.70	28	14	5	13	9.1	4.2	15.8	17000/17000	0.20	0.20	1.90	280/280	0	24	76	84	56	42	28	14	9	KCL
920223	3257	1.70	28	14	5	13	9.1	4.2	15.8	17000/17000	0.10	0.20	1.90	280/280	0	24	76	84	56	42	28	14	9	KCL
920224	3257	1.70	28	14	5	13	9.1	4.2	15.8	17000/17000	0.10	0.20	1.90	280/280	0	24	76	84	56	42	28	14	9	KCL
920225	3257	1.70	28	14	5	13	9.1	4.6	16.4	17000/17000	0.20	0.20	1.90	280/280	0	24	76	84	56	42	28	14	9	KCL
920226	3257	1.70	27	14	5	13	9.1	4.8	16.6	18000/18000	0.20	0.20	1.90	300/300	0	24	76	81	54	40	27	13	8	KCL

Date 11/8-1992

Daily mud properties

Date 11/8-1992

System : BORE

Well: 6507/2-2
Mud Contractor: ANCHOR DRLG. FLUIDS
Data: "Mid depth" from table 3, otherwise from table 14.

14. 4

Alkalinity Pf	Pm	Mf	Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F 600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	Mud Type	Date	Mid. depth m,MD	Mud Dens. (SG)	PV cp	YP Pa	GEL 0 Pa	GEL 10 Pa	pH	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l
0.20	0.50	2.00	240/	0	22	78	69	44	33	20	5	3	KCL	911202	3084	1.70	25	10	3	16	9.1	2.8	10.2	71000/
0.30	0.50	2.00	260/	0	22	78	72	46	34	21	5	3	KCL	911203	3112	1.70	26	10	3	15	9.0	2.3	9.8	71000/
0.20	0.50	2.00	260/	0	22	78	68	44	33	20	5	3	KCL	911204	3154	1.70	24	10	3	16	8.9	2.3	9.2	71000/
0.20	0.50	2.00	260/	0	22	78	68	44	33	20	5	3	KCL	911205	3161	1.70	24	10	3	16	8.9	2.4	9.4	71000/
0.20	0.50	1.70	280/	0	22	78	71	46	34	21	5	3	KCL	911206	3188	1.70	25	10	3	14	8.7	2.3	9.6	74000/
0.20	0.50	1.80	180/	0	22	78	61	39	29	18	5	3	KCL	911207	3287	1.70	22	9	3	14	8.9	2.3	10.0	72000/
0.20	0.50	1.70	180/	0	23	77	63	40	30	19	5	3	KCL	911208	3326	1.70	23	9	3	15	8.7	2.4	10.0	68000/
0.20	0.50	1.70	180/	0	23	77	63	40	30	19	5	3	KCL	911209	3326	1.70	23	9	3	15	8.7	2.4	10.0	68000/
0.20	0.50	1.70	180/	0	23	77	63	40	30	19	5	3	KCL	911210	3326	1.70	23	9	3	15	8.7	2.4	10.0	68000/
0.20		1.70	180/	0	23	77	66	41	32	20	5	3	KCL	911211	3326	1.70	25	8	2	12	8.3	2.4	10.0	65000/
0.20	0.40	1.70	180/	0	23	77	66	41	32	20	5	3	KCL	911212	3326	1.70	25	8	2	12	8.4	2.4	10.0	63000/
0.20	0.40	1.80	180/	0	23	77	65	41	31	20	5	3	KCL	911213	3326	1.70	24	8	2	11	8.4	2.2	10.0	63000/
0.20	0.40	1.80	360/	0	24	76	58	34	26	15	5	3	KCL	911214	3326	1.75	24	7	2	9	8.4	2.5	10.0	64000/
0.30	0.40	1.90	360/	0	24	76	54	34	25	14	5	3	KCL	911215	3330	1.75	20	7	2	8	8.6	2.5	10.0	64000/
0.30	0.40	1.90	360/	0	26	74	66	61	32	20	5	3	KCL	911216	3339	1.75	25	8	2	7	8.5	2.4	10.0	63000/
0.30	0.40	2.00	360/	0	24	76	52	34	24	16	6	3	KCL	911217	3344	1.75	18	8	2	6	8.5	2.1	10.0	63000/
0.30	0.30	2.00	300/	0	22	78	51	35	27	18	5	3	KCL	911218	3356	1.75	16	10	2	5	8.6	2.2	1.0	60000/
0.30	0.30	2.10	280/	0	22	78	60	40	31	21	5	3	KCL	911219	3448	1.75	20	10	2	5	8.6	2.2	10.0	60000/
0.30	0.30	2.10	180/	0	23	77	63	40	31	20	5	3	KCL	911220	3570	1.75	23	8	2	5	8.8	2.2	9.4	59000/
2.20	0.20	0.40	200/	0	23	77	65	41	31	21	5	3	KCL	911221	3638	1.75	24	8	2	8	8.8	2.2	9.5	60000/
0.40	0.20	2.20	240/	0	24	76	69	65	33	22	5	3	KCL	911222	3678	1.75	23	11	3	9	8.5	2.2	9.5	58000/
0.40	0.20	2.20	240/	0	24	76	65	42	32	21	4	3	KCL	911223	3685	1.86	23	10	3	9	8.6	2.2	9.5	58000/
0.60	0.50	1.10	280/	0	25	75	73	46	34	23	5	3	KCL	911224	3685	1.86	27	10	3	13	8.9	2.7	10.0	56000/
0.50	0.50	2.00	280/	0	25	75	78	50	38	25	5	3	KCL	911225	3700	1.86	28	11	3	15	10.2	2.9	10.0	56000/
0.50	0.50	1.50	280/	0	28	72	78	48	40	25	5	4	KCL	911226	3721	1.86	30	9	3	8	9.3	2.3	10.0	56000/
0.40	0.40	1.70	240/	0	27	73	65	30	30	21	5	3	KCL	911227	3737	1.86	27	10	2	8	9.0	2.3	10.0	56000/
0.40	0.30	1.40	240/	0	27	73	77	50	32	21	5	3	KCL	911228	3737	1.86	27	11	2	8	8.5	2.3	10.0	56000/
0.40	0.40	1.40	360/	0	27	73	80	52	3	2	5	3	KCL	911229	3670	1.86	28	12	2	8	8.8	2.0	10.0	56000/
0.40	0.60	1.70	420/	0	29	71	76	49	32	20	5	3	KCL	911230	3696	1.86	27	11	2	8	9.7	2.6	11.0	50000/
0.50	0.80	1.70	420/	0	29	71	76	47	34	22	3	2	KCL	911231	3736	1.86	29	9	2	5	9.8	2.6	11.0	53000/
0.50	0.80	1.70	440/	0	29	71	77	48	36	22	3	2	KCL	920101	3736	1.86	29	10	2	5	10.2	2.6	11.0	53000/
0.70	0.90	2.10	640/	0	30	70	77	48	36	22	3	2	KCL	920102	3702	1.86	29	10	2	6	12.2	2.8	11.2	52000/
0.50	0.70	1.90	500/	0	30	70	74	45	33	21	3	2	KCL	920103	3712	1.86	29	8	2	5	10.2	2.8	11.2	51000/
0.40	0.70	1.90	420/	0	30	70	80	49	37	22	3	2	KCL	920104	3736	1.86	31	9	2	9	9.6	2.6	10.6	42000/
0.80	1.40	2.30	700/	0	30	70	80	49	37	22	3	2	KCL	920105	3626	1.86	31	9	2	9	12.4	2.6	11.0	40000/
0.70	1.30	2.40	680/	0	30	70	78	48	36	22	3	2	KCL	920106	3684	1.86	30	9	2	10	11.1	2.3	11.2	40000/
0.70	1.20	2.30	640/	0	30	70	83	51	38	23	3	2	KCL	920107	3685	1.86	32	10	2	12	10.9	2.2	11.0	40000/
0.40	0.70	1.40	360/	0	30	70	81	50	37	22	3	2	KCL	920108	3705	1.86	31	10	2	5	8.9	2.3	11.0	40000/
0.20	0.60	0.50	340/	0	30	70	80	49	36	22	3	2	KCL	920109	3710	1.86	31	9	2	8	8.8	1.8	11.0	39500/
0.20	0.60	0.50	340/	0	30	70	80	49	36	22	3	2	KCL	920110	3710	1.86	31	9	2	7	8.8	1.8		39500/
0.30	0.60	0.70	380/	0	30	70	80	49	36	22	3	2	KCL	920111	3737	1.86	31	9	2	7	9.1	1.8	10.6	39500/
0.40	0.70	1.90	340/	0	30	70	80	49	36	22	3	2	KCL	920112	3737	1.86	31	9	2	5	9.5	2.2	10.8	39000/

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Norsk Hydro

Daily mud properties

System : BORE

Well: 6507/2-2
Mud Contractor: ANCHOR DRLG. FLUIDS
Data: "Mid depth" from table 3, otherwise from table 14. 4

Date 11/8-1992

Date 11/8-1992
14. 4

Date	Mid. depth m,MD	Mud Dens. (SG)	PV cp	YP Pa	GEL 0 Pa	GEL 10 Pa	pH	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity Pf	Alkalinity Pm	Alkalinity Mf	Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F 600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	Mud Type
911020	0	1.05	18	18	8	12	9.2											72	54	44	36	26	16	SPUD
911021	491	1.05	18	18	8	12	9.2											72	64	44	36	21	16	SPUD
911022	505	1.05	18	18	4	12	9.4											72	54	44	26	26	18	SPUD
911023	685	1.05	18	18	9	12	9.4											72	54	44	36	26	18	SPUD
911024	685	1.05	18	18	9	12	9.4											72	54	44	36	26	18	SPUD
911025	685	1.25	16	12	2	3	8.5	5.0		70000/	0.05		0.10	800/		94		55	39	30	20	5	3	KCL
911026	685	1.25	16	12	2	3	8.5	5.0		70000/	0.05		0.10	800/		6		55	39	30	20	5		KCL
911027	685	1.25	16	12	2	3	8.5	5.0		72000/	0.10		0.10	700/		6		55	39	30	20	5	3	KCL
911028	1051	1.26	17	16	4	7	8.4	5.0		71000/	0.10		0.20	700/		9		65	48	40	30	10	8	KCL
911029	1259	1.26	13	14	5	9	8.3	5.0		68000/	0.10	0.10	0.60	760/		9		54	41	36	28	12	9	KCL
911030	1414	1.26	13	14	4	11	8.3	4.2		71000/	0.10	0.10	0.60	800/		9		54	41	35	27	12	9	KCL
911031	1414	1.26	14	14	4	10	8.5	4.0		70000/	0.10		0.50	760/		9		56	42	36	27	11	8	KCL
911101	1414	1.26	14	12	4	10	8.2	4.2		70000/	0.10	0.10	0.60	740/		9		52	38	34	26	12	8	KCL
911102	1600	1.30	14	15	4	8	9.5	3.4		66000/	0.20	0.20	0.90	380/		10		57	43	35	26	9	7	KCL
911103	1959	1.51	20	20	7	18	8.6	4.6	9.2	72000/	0.10	0.10	0.90	480/		17		80	60	50	37	14	11	KCL
911104	2100	1.55	18	13	4	14	8.4	4.8	13.0	66000/	0.10	0.10	1.10	420/		17		61	43	35	25	8	6	KCL
911105	2355	1.55	25	15	4	17	8.6	4.6	12.0	69000/	0.10	0.30	1.20	440/		17		79	54	44	30	9	7	KCL
911106	2449	1.55	24	12	4	17	8.4	4.2	12.0	72000/	0.20	0.30	1.20	520/		18		72	48	38	27	8	7	KCL
911107	2517	1.57	25	13	5	19	8.4	4.3	14.0	70000/	0.10	0.20	1.10	640/		19		75	50	40	27	7	6	KCL
911108	2727	1.57	23	11	3	15	8.2	4.4	14.0	72000/	0.10	0.00	1.00	560/		19		65	42	32	21	5	4	KCL
911109	2775	1.60	20	10	3	17	8.2	4.6	13.0	70000/	0.10	0.10	1.10	400/		19		62	42	33	22	6	4	KCL
911110	2775	1.60	28	14	4	24	8.2	4.2	14.0	71000/	0.10	0.10	1.10	440/		20		83	55	43	29	8	6	KCL
911111	2775	1.60	29	12	4	21	8.2	4.2	13.0	70000/	0.10	0.10	1.00	440/		20		82	53	42	28	7	6	KCL
911112	2777	1.60	28	12	4	20	8.2	4.2	14.0	71000/	0.10	0.10	1.00	400/		20		79	51	40	27	7	6	KCL
911113	2777	1.58	18	9	3	19	8.2	4.0	14.0	68000/	0.10	0.10	1.10	420/		18		54	36	29	19	6	5	KCL
911114	2783	1.50	22	12	3	13	9.9	5.0	11.0	69000/	0.30	2.00	2.20	80/		17		67	45	36	25	6	4	KCL
911115	2821	1.50	19	10	3	12	9.5	4.0	11.5	65000/	0.30	0.90	1.90	80/		17		58	39	30	20	5	3	KCL
911116	2843	1.50	20	21	2	7	8.9	3.2	10.5	72000/	0.20	0.70	1.90	86/		16		61	41	32	22	5	4	KCL
911117	2863	1.50	20	11	3	9	8.9	3.2	10.0	71000/	0.20	0.50	1.90	200/		18		61	41	33	22	5	4	KCL
911118	2924	1.50	19	10	3	10	8.7	3.4	10.0	58000/	0.20		1.70	350/		16		57	38	30	20	5	4	KCL
911119	2987	1.50	19	10	3	10	8.6	3.2	10.0	66000/	0.10	0.40	1.50	240/		16		57	38	30	20	5	3	KCL
911120	3013	1.50	17	8	2	8	8.5	3.0	10.0	70000/	0.20	0.40	1.60	240/		17		57	38	30	20	5	3	KCL
911121	3045	1.50	17	9	3	10	8.5	3.0	10.0	74000/	0.10	0.40	1.40	240/		17		51	34	29	19	5	3	KCL
911122	3156	1.50	15	8	3	12	8.5	3.0	10.0	69000/	0.10	0.40	1.40	280/		17		46	31	27	18	5	3	KCL
911123	3265	1.50	16	8	3	13	8.4	4.0	11.0	68000/	0.10	0.40	1.40	280/		17		49	33	28	19	5	3	KCL
911124	3296	1.50	16	8	3	13	8.9	4.0	11.0	68000/	0.10	0.90	1.40	280/		17		49	33	28	19	5	3	KCL
911125	3307	1.50	15	8	3	14	8.6	3.4	11.0	68000/	0.20	0.50	1.40	280/		17		46	31	27	18	5	3	KCL
911126	3336	1.70	24	9	5	19	8.9	4.1	12.0	67000/	0.20	0.50	1.80	380/		24		66	42	33	21	6	4	KCL
911127	3336	1.70	25	9	5	20	9.0	4.1	12.0	66000/	0.20	0.50	1.90	380/		24		68	43	34	21	6	4	KCL
911128	3175	1.70	22	11	5	19	9.0	3.8	12.0	71000/	0.20	0.60	1.70	260/		23		66	44	33	21	6	4	KCL
911129	2900	1.70	22	11	5	19	9.0	3.8	12.0	72000/	0.20	0.60	1.70	260/		23		66	44	33	21	6	4	KCL
911130	2989	1.70	23	11	5	19	9.7	3.9	12.0	72000/	0.20	0.60	2.00	420/		23		67	44	33	21	6	4	KCL
911201	3018	1.70	23	11	4	18	9.1	3.6	11.0	89000/	0.20	0.60	2.00	200/	0	23	77	67	44	33	20	5	3	KCL

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Daily mud properties

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System : BORE

Well: 6507/2-2
Mud Contractor: ANCHOR DRLG. FLUIDS
Data: "Mid depth" from table 3, otherwise from table 14. 4

Date 11/8-1992

14. 4

Date	Mid. depth m,MD	Mud Dens. (SG)	PV cp	YP Pa	GEL 0 Pa	GEL 10 Pa	pH	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity Pf	Alkalinity Pm	Alkalinity Mf	Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F 600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	Mud Type
920227	3257	1.70	27	14	5	12	9.1	4.8	16.6	18000/18000	0.20	0.20	1.90	300/300	0	24	76	81	54	40	27	13	8	KCL
920228	3257	1.70	27	14	5	12	9.1	4.8	16.6	18000/18000	0.20	0.20	1.90	300/300	0	24	76	81	54	40	27	13	8	KCL
920229	3257	1.70	27	14	5	12	9.1	4.8	16.6	18000/18000	0.20	0.20	1.90	300/300	0	24	76	81	54	40	27	13	8	KCL
920301	3257	1.70	26	12	4	12	9.5	4.4	16.4	20000/20000	0.20	0.30	2.20	460/460	0	24	76	76	50	37	24	11	5	KCL
920302	3257	1.70	27	13	4	12	9.5	5.0	16.2	20000/20000	0.20	0.30	2.60	460/460		24		80	53	42	26	10	6	KCL
920303	3257	1.70	26	13	4	11	9.4	5.0		20000/20000	0.20	0.30	2.80	480/480		24		77	51	39	24	10	5	KCL
920304	3257	1.70	23	11	4	10	9.3	5.0		20000/20000	0.20	0.20	2.80	480/480		24		67	44	33	20	9	4	KCL
920305	3257	1.70	25	12	4	9	9.3	4.0		20000/20000	0.20	0.20	2.80	480/480		24		74	49	36	23	10	5	KCL
920306	3257	1.70	15	13	4	11	8.8	5.0		20000/20000	0.20	0.20	2.80	440/440		24		55	40	29	19	9	4	KCL
920307	3257	1.70	18	11	3	8	8.7	4.8		20000/20000	0.20	0.20	2.00	440/440		24		57	39	27	17	5	3	KCL
920308	2568	1.70	15	10	3	8	8.5	5.0		20000/20000		0.20	2.90	640/640		24		50	35	25	15	5	3	PHPALIGNIN
920309	2568	1.70	13	10	3	5	8.5	5.0		20000/20000		0.20	2.90	620/620		24		45	32	21	12	5	3	PHPALIGNIN
920310	1238	1.60	12	8	2	4	8.9	5.0		19000/19000	0.20	0.20	2.90	680/680		21		40	28	19	10	5	3	PHPALIGNIN
920311	430	1.61	16	14	3	11	9.7	5.0		21000/21000	0.20	0.40	2.60	400/400		21		60	44	30	19	6	4	KCL
920312	430	1.61	16	14	3	11	9.7	5.0		21000/21000	0.20	0.40	2.60	400/400		21		60	44	30	19	6	4	KCL
920314	407	1.00	0	0																				KCL
920315	407	0.00	0	0																				KCL