

# R.F.T. RESULTS

7/11-6

TEST NO. No.	DEPTH. m	PH I psig	PF psig	PHA psig	REMARKS
1/1	4106.0	9381	52	9377	TIGHT
2/1	4116.0	9404	8253	9402	FAIR-LOW PERM.
3/1	4117.5	9407	8247	9403	GOOD PERM.
4/1	4121.0	9413	8254	9412	LOW PERM.
5/1	4126.5	9425	8261	9425	V. GOOD PERM.
6/1	4132.5	9436	8268	9436	V. GOOD PERM.
7/1	4156.5	9489	-	-	SEAL FAILURE
8/1	4156.5	9487	45	9488	TIGHT.
9/1	4175.0	9533	0	9533	TIGHT
10/1	4192.5	9573	41	9573	TIGHT
11/1	4204.5	9598	-	-	NO SEAL
12/1	4198.0	9578	-	-	NO SEAL
13/1	4117.5	9404	8249	9399	GOOD PERM.

13/1 Attempted to take segregated sample at 4117.5 m.  
Failed due to plugged flow lines to sample chamber.  
DP = - 12 psig applied to results.

### 6.3 Mud report

#### 36" hole, 30" casing

The 36" hole was drilled to 182,5 m using seawater and high viscosity pills of prehydrated Bentonite/Lime mud. The 30" casing was run and cemented without any problems. Materials used in this section were Bentonite, Caustic, Lime and Soda Ash.

#### 26" Hole, 20" casing

The riser was run before the 17 1/2" pilot hole was drilled. The 17 1/2" pilot hole was drilled to 670 m using sea water together with prehydrated Bentonite and Lime. The hole was underreamed to 26". Prior to running the 20" casing the hole was reamed from 424 m to 450 m and 480 m to 670 m. Had to displace the hole twice before running the casing, which lead to an increase in the mud costs. The 20" casing was run and cemented at 654 m without any problems. Materials used were Barite, Bentonite, Caustic, Soda Ash, Lime, Drispac Reg., XC-Polymer, Mica.

#### 17 1/2" hole, 13 3/8" casing

The 17 1/2" hole section was drilled to 2060 m using a KCl/Drispac mud.

The mud weight was raised to 1,46 rd at 1554 m and up to 1,50 rd before logging.

Had some problems with the gumbo shale in this section, and due to this there were some losses of mud over the shakers. There were also some problems with the bulk Barite system which lead to some difficulties in maintaining the correct mud weight.

After logging a wiper trip was made and the hole had to be reamed from 702 m to 718 m. A high viscous pill was set and the 13 3/8" casing was run and cemented at 2044 m without any problems. Materials used were: Barite, Caustic Soda, Soda Ash, KCl, Drispac Reg., Drispac S/LO, XC-Polymer, Desco.

12 1/4" hole, 9 5/8" casing

The 12 1/4" section was drilled to 3970 m. The mud from the previous interval was used in the first section of the 12 1/4" hole. Had some losses of mud over the shakers due to blinding of the shaker screens. In the lime stone section the mud was converted to a gel/lignosulfonate mud, and the mud weight was raised to 1,56 rd. The limestone section was drilled with a turbine assembly.

The mud was circulated and conditioned and the casing was run with the shoe at 3955 m without any problems.

Materials used in this section was: Barite, Bentonite, Caustic Soda, Soda Ash, Lime, Spersene, XP-20, Resinex, Magcolube, DD, Drispac Reg., Drispac Superlo, Desco, KCl.

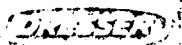
8 3/8" hole

The 8 3/8" hole section was drilled to 4500 m. The mud properties were kept as close to the programmed values as possible. There were also some problems as the hole appeared not to take the correct amount of mud, due to excessive foaming in the trip tank.

Materials used in this section was: Barite, Bentonite, Caustic Soda, Soda Ash, Bi-Carbonate, Lime, Spersene, XP-20, Resinex, Drispac Reg., Magcolube.







# DAILY MUD PROPERTIES

Well: NORSK HYDRO, 7/11-6

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1982	M	WT.	VIS	CORR. 115°F	GELS		pH	FLUID LOSS		CL <input checked="" type="checkbox"/>	ALKALINITY				RETORT			V.G. METER READING @ 115°						BHI	\$ TOTAL MUD COST	
					PV	YP		100 PSI API	500 PSI 300°F HT-HP		CA ppm	PF	PM	MF	% OIL	% SOL	% WATER	600 R.P.M.	300 R.P.M.	200 R.P.M.	100 R.P.M.	6 R.P.M.	3 R.P.M.			CEC
2/10	4090	1.60	45	23	4.0	1.5	10	11.0	4.8	26	27000	1.3	5.6	3.6	200	0	23	77	54	31	23	13	2	2	25.0	592318.80
3/10	4118	1.60	45	27	4.5	1.5	8	10.6	3.4	17	27000	1.0	1.9	1.6	360	0	23	77	63	36	25	14	2	1	25.0	603816.42
4/10	4142	1.60	46	29	4.0	1	9	10.5	4.0	16	27000	1.3	3.6	1.9	320	0	23	77	66	37	27	14	2	1	25.0	613010.72
5/10	4149	1.60	48	25	3.0	1	6	10.5	3.8	14	27000	1.3	4.8	4.8	360	0	23	77	56	31	21	12	2	1	25.0	621117.52
6/10	4173	1.60	56	30	4.0	1.5	9	10.2	3.6	13	26000	1.2	5.0	4.8	320	0	24	76	68	38	29	17	3	2	25.0	626566.45
7/10	4225	1.60	50	27	3.5	1.5	8.5	10.2	3.4	13.5	25000	1.1	4.8	4.8	240	0	22	78	61	34	24	14	2	1	27.5	636728.60
8/10	4231	1.60	45	26	4.0	1.5	9	10.2	3.6	13	23000	1.2	4.9	4.2	240	0	22	78	60	34	25	14	2	1	27.5	637622.00
9/10	4221	1.60	47	30	4.5	1.5	12	10.3	3.6	12	23000	1.2	4.3	4.7	240	0	23	77	69	39	28	16	3	2	27.5	644399.61
10/10	4403	1.60	47	28	4.5	1.5	13	10.3	3.8	12	23000	0.9	3.8	4.8	220	0	24	76	67	39	29	17	3	2	27.5	651811.51
11/10	4455	1.60	43	25	3.0	1.5	11	10.6	3.6	12	22000	1.1	3.6	4.9	200	0	23	77	56	31	22	13	2	1	27.5	656250.71
12/10	4500	1.60	51	27	3.5	1.5	12	10.7	4.0	13	22000	1.0	5.0	4.8	200	0	23	77	61	34	24	13	2	1	27.5	661010.51
13/10	4500	1.60	42	23	3.0	1	11	10.7	3.8	12.5	22000	.95	4.8	3.6	220	0	23	77	54	29	20	11	1	1	27.5	665658.71
14/10	4500	1.60	45	23	3.0	1	11	10.5	3.8	12.5	22000	1.0	4.7	3.6	240	0	23	77	54	29	20	11	1	1	25.0	665658.71
15/10	4500	1.60	46	22	6.0	2	10	10.5	4.2	-	22000	0.8	4.6	3.4	320	0	23	77	56	34	23	13	2	1	25.0	668636.71
16/10	4500	1.60	48	22	4.0	3	12	10.4									23	77								668636.71
17/10	4500	1.60	48	22	4.0	3	12	10.4									23	77								670423.51
18/10	4500	1.60																								674765.51

DATE SPUD:

9th August 1982

DATE T.D.:

COST:

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