

RFT RESULTS 30/6-14

NO	Depth (mRKB)	PHI (PSIA)	PF (PSIA)	PHA (PSIA)	Remarks
1/1	2421	4382	—	4383	TIGHT
1/2	2421.5	4381	3728.	4379	POOR PERM.
1/3	2563	4635	3739.8	4635	GOOD PERM.
1/4	2567.5	4641	3746.7	4641	GOOD PERM.
1/5	2577	4655	3759.6	4655	VERY GOOD PERM
1/6	2582.5	4663	3767.5	4663	VERY GOOD PERM.
1/7	2607.5	4707	3802.5	4707	VERY GOOD PERM.
1/8	2611.5	4712	3808.	4712	VERY GOOD PERM.
1/9	2782.5	4842	—	4841	TIGHT
1/10	2686	4845	—	4845	TIGHT
1/11	2681	4833	—	4834	TIGHT
1/12	2693	4853	—	4853	TIGHT
1/13	2783.6	5018	—	5017	TIGHT
1/14	2785.6	5018	4121.	5017	PART. PLUG. PROBE
1/15	2787.5	5021	—	5022	PLUGGED PROBE
1/16	2790	5023	4126.	5022	PART. PLUG. PROBE
1/17	2792	5025	—	5025	PLUGGED PROBE
1/18	2783.8	5023	4119.8	5021	VERY GOOD PERM.
1/19	2785.4	5023	4121.3	5021	VERY GOOD PERM.
1/20	2787.5	5025	4123.9	5024	GOOD PERM.
1/21	2790	5027	4125.4	5026	VERY GOOD PERM.
1/22	2792	5028	4128.	5027	VERY GOOD PERM.
1/23	2795.5	5032	—	5032	TIGHT
1/24	2797	5033	4138.3	5032	POOR PERM.
1/25	2818.5	5072	4168.8	5071	VERY GOOD PERM.
1/26	2824	5078	4174.	5076	GOOD PERM.
1/27	2827.5	5082	4178.5	5081	GOOD PERM.
1/28	2830.5	5088	4182.6	5087	VERY GOOD PERM.
1/29	2833	5092	4186.	5091	VERY GOOD PERM.
1/30	2843.5	5111	4201.8	5110	GOOD PERM.
1/31	2851.5	5125	4112.7	5125	VERY GOOD PERM.
1/32	2682.5	4836	—	4839	TIGHT
1/33	2686	4843	—	4841	TIGHT

Notes:

1. All pressure readings are from HP gange, i.e. temp. corrected
2. Mudfiltrate (flowline) : 9000 Eq - ppm Nacl
3. PHI = initial hydrostatic pressure
PF = formation pressure
PHA = hydrostatic pressure after test
4. Max recorded downhole temp: 75°C

DST RESULTS 30/6-14

DST NO 1:

Perforated interval:	2783-2787 m RKB
Choke size:	1 28/64" (50,8 mm)
Cushion flow rate:	80 STB/Day (12,72 m ³)
WHP:	< 50 psig (3,48 bar)
BHT:	218°F (103,3°C)
Oil gravity:	36° API (0,845 G/CC) (Field measurement)

Note: No formation fluid was produced to surface.
Oil samples recovered when reversing out tubing content.

DST NO 1 A:

Perforated interval:	2783-2788 m RKB
Choke size:	1 28/64" (50,8 mm)
Cushion/oil flow rate:	125 STB/Day (19,875 m ³)
WHP:	< 65 psig (4,48 bar)
BHT:	230°F (110°C)
Oil gravity:	38° API (0,835 G/CC) (Field measurement)

TABLE B - 6



DRILLING MUD RECAP

Contractor WILHELMSEN OPERATOR NORSK HYDRO A/S LEGAL DESCRIPTION _____

Rig No. TREASURE SCOUT Well Name And No. 30/6-14 Field NORTH SEA COUNTRY NORWAY

Promud a/s Warehouse BERGEN Spud Date 17/12/83 No. Drilling Days To T.D. _____ DATE T.D. REACHED _____ TOTAL DEPTH _____ TOTAL COST \$ _____

DATE (1983)	TIME	DEPTH meters	WT (ppg)	FV API	PV CP #	YIELD POINT (lb/1000 ft ²)	GELS (lb/1000 ft ²)	pH	FILTRATE (ml/30 min)			Coke (32nd in)	Alkalinity		Chloride (ppm)	Calcium (ppm)	Sand (% by Vol.)	Solids (% by Vol.)	Oil (% by Vol.)	Water (% by Vol.)	Methy. Blue (mg/ml mud)	KCl ppb	Circ. Volume (bbt)	REMARKS
									API	HT-MP	Op		P _m	P _r / M _r										
16/12			1.2	110	14	26																		
17/12			1.2	110																				
18/12	2400	280	1.07	45	8	14	2/4	8.6				.26	.18/2	18000	300	1/4	5		95	18		336	Drill 444 mm hole. 17 1/2"	
19/12	2200	618	1.11	53	6	11.5	3/6	8.6	N/A			.2	.16/2	8 K	200	1/4	5.8		94.2	18		253	Drill 444 mm hole.	
20/12	2400	550	1.11	50	11	15	4/11	8.6	27		3	.22	.16/2	14 K	300	1/4	5.8		94.2	20		330	Underream.	
21/12	2400	618	1.11	52	12	13	3/10	8.8	25		2	.2	.16/2	15 K	340	1/4	5.8		94.2	20		321	Prepare to run casing.	
22/12		618																						Run casing.
23/12	2300	625	1.1	48	13	12	3/5	9	14		1	.1	.1/1	44 K	380	1/2	2.5		97.5		38	240	Run BOPs. Build KCl-Polymer.	
24/12	2400	1131	1.11	50	12	17	3/4	9	11				.15/25	70 K	320	3	3		97	9	48	312	Drill 444 mm.	
25/12	2400	1370	1.13	50	10	14	3/4	9	10.1		1	.32	.12/3	70 K	300	4	3.2		96.8	10	48	352	Drill 444 mm.	
26/12	2400	1675	1.14	50	11	17	2.5/3	8.5	10		1	.22	.1/2	60 K	300	5	4.4		95.6	10	45	371	Drill 444. P.O. to log.	
27/12	2230	1675	1.13	48	8	16	2/2.5	8.8	9.8		1	.24	08/24	57 K	300	2.5	4.5		95.5	12	44	371	POOH & Run casing.	
28/12	2200																					43		
29/12	2000	1675																				43		
30/12	2300	1867	1.24	45	12	11	2/2	11	15	26	250	1	.24	.2/2	58 K	800	1	9.7		90.3	12	38	264	Drilling cement + 311 hole.
31/12	2300	2121	1.24	45	11	13	2/3	10.5	17	29	250	1	.26	.15/24	55 K	800	1.5	9.7		90.3	14	38	300	Drilling. H.N.Y.
1/1	2000	2121	1.24	45	10	12	2/2	10.2	16	27	250	1	.22	.14/2	54 K	580	1	9.7		90.3	14	38	296	Drilling.
2/1	2300	2202	1.24	45	13	13	3/5	10.5	11.2	24	250	1	.26	.1/22	54 K	380	1/2	9.7		90.3	14	36	289	Drilling.
3/1	2300	2304	1.25	54	12	12.5	3/5	10.5	10.8	24	250	1	.26	.1/22	54 K	380	1/2	9.7		90.3	18	37	294	Drilling.
4/1	2300	2364	1.24	50	14	13	4/9	10.5	10	24	250	1	.22	08/2	58 K	340	1/4	9.8		90.2	20	38	307	Drilling.
5/1	2300	2395	1.24	52	12	13.5	5/9	10.5	10	23	250	1	.2	.1/2	58 K	240	1/4	9.7		90.3	20	38	305	Drilling.
6/1	2300	2473	1.24	50	12	11.5	5/12	10.5	10	24	250	1	.2	08/18	56 K	200	1/4	9.7		90.3	20	37	311	Drilling.
7/1	2300	2554	1.24	51	12	13.5	5/13	10.4	10	24	250	1	.24	.1/22	57 K	200	1/4	11.8		88.2	22	37	317	Drilling.
8/1	2300	2561	1.24	50	11	11.5	5/10	10.4	10.2	24	250	1	.22	.1/18	57 K	200	1/4	11.2		88.8	22	37	318	Drilling.
9/1	2400	2605	1.24	47	11	12.5	6/13	10.4	10	24	250	1	.16	.14/14	57 K	200	1/4	10		90	22	38	317	Core No. 1.
10/1	1630	2620	1.24	48	12	11	6/13	10.5	10	23	250	1	.28	.16/16	57 K	200	1/4	10		90	22	37	323	Core No. 2.
11/1	2300	2672	1.24	45	9	11	6/14	10.5	10.6	25	250	1	.3	.1/20	59 K	160	1/4	10		90	22	38		
12/1	2400	2700	1.24	52	12	12	7/14	10.5	10	26	250	1	.3	.1/23	58000	150	.25	10		90	22	38	323	WOW.

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TABLE B-6 Cont.



DRILLING MUD RECAP

Contractor WILHELMSSEN OPERATOR NORSK HYDRO A/S LEGAL DESCRIPTION _____
 Rig No. TREASURE SCOUT Well Name And No. 30/6-14 Field NORTH SEA COUNTRY NORWAY
 Promud a/s BERGEN Spud Date 17/12/83 No. Drilling Days To T.D. 33 DATE T.D. REACHED 17/1/84 TOTAL DEPTH 2900 m TOTAL COST \$ _____

DATE (1984)	TIME	DEPTH meters	WT (ppg)	FV APP	PV cp @	YIELD POINT (HEGGERD) MPa	GELS 9/10 MPa	pH	FILTRATE (ml/30 min)			Coke (32nd in)	Alkalinity		Chloride (ppm)	Calcium (ppm)	Sand (% by Vol.)	Solids (% by Vol.)	OR (% by Vol.)	Water (% by Vol.)	Methy. Blue (mg/ml mud)	KCl ppb	Circ. Volume (bbl)	REMARKS
									API	HT-HP	Op		P _m	P _i / M _i										
13/1	2400	2775	1.24	47	8	13	8/15	10.5	10.5	26	250	1	.4	14/32	58000	200	.25	10		90	22	38	336	Drilling.
14/1	2400	2785	1.24	48	10	14.5	8/16	10	10	26	250	1	.5	14/31	54000	200	.25	10		90	22	36	348	Coring.
15/1	2400	2800	1.24	50	11	14	8/15	10	10	26	250	1	.4	2/65	54000	200	TR	10		90	22	35	349	Drilling.
16/1	2400	2855	1.24	48	8	12.5	7/15	10	10.5	26	250	1	.5	4/81	54000	100	.25	10		90	22	36	348	FOOH.
17/1	2400	2900	1.24	46	12	12	5/13	10	10.5	26	250	1	.5	12/96	56000	100	.25	10		90	22	36	353	FOOH to log.
18/1	2400	2900	1.24	46	11	12	5/15	10	10	26	250	1	.5	31/56	54000	100	.25	10		90	22	34	353	Logging.
19/1	2400	2900	1.24	44	9	10	6/12	10	10	26	250	1	.3	2/91	53000	150	TR	10		90	22	34	353	Fish out RFT.
20/1	2400	2900	1.24	48	14	11	3/16	9.5	10.5	26	250	1	.6	41/95	56000	100	TR	10		90	22	34	350	Logging.
21/1	2400	2900	1.24	48	14	11	3/15	9.5	10.5	26	250	1	.3	2/51	56000	250	TR	10		90	22	36	350	Prepare to run casing.
22/1	2400	2900	1.24	47	10	11	3/11	9.5	11	26	250	1	.21	21/46	54000	250	TR	10		90	22	34	350	WOW.
23/1	2400	2900	1.24	46	9	11	4/13	9.5	11	26	250	1	.3	2/71	54000	250	TR	10		90	22	34	350	Running casing.
24/1	2400	2900	1.24	46	10	11	4/12	9.5	12	26	250	1	.4	2/4	54000	190	TR	10		90	22	34	279	Cement.
25/1	2400	2900	1.24	45	10	12	4/10	9.5	15	26	250	1	.4	4/9	50000	150	TR	10		90	22	34	279	Drill cement.
26/1	2825	2825	1.24	48	12	11.5	3/12	9.5	15	26	250	1	.4	31/65	49000	150	TR	10		90	22	34	268	Testing.
27/1	2400	2825	1.24	44	13	12	3/16	9.5	16	26	250	1	.4	4/2.7	44000	150	TR	10		90	22	34	268	Testing.
28/1	2400	2825	1.24	46	10	12	3/10	9.5	15	26	250	1	.5	4/24	44000	800	TR	10		90	22	34	268	Testing.
29/1	2400	2825	1.24	46	12	12	3/14	10.5	16	26	250	1	.5	5/1.2	46000	260	TR	10		90	22	34	268	FOOH with test.
30/1	2400	2825	1.24	44	10	11	3/10	10.5	16	26	250	1	.5	5/21	46000	200	TR	10		90	22	34	268	Test No. 2.
31/1	2400	2825	1.24	46	10	12	3/12	10	16	26	250	1	.6	6/2.7	46000	200	TR	10		90	22	34	268	Testing.
1/2	2400	2825	1.24	46	12	12	3/14	10	16	26	250	1	.6	6/2.7	46000	200	TR	10		90	22	34	268	Testing.
2/2	2400	2825	1.24	46	12	12	3/14	10	16	26	250	1	.6	6/2.7	46000	200	TR	10		90	22	34	268	Lay down test tools.

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MENT A/S - SANDNES

TABLE B-7

Mud Material consumption

<u>Material</u>	<u>Quantity</u>	<u>Unit/Weight</u>
Bent.	61.5	MT
Barite	187	MT
W.O. 21	28	SXS
Lime	15	SXS
Soda Ash	74	SXS
Caustic	188	SXS
Brine	2650	BBLs
Milpolymer	380	SXS
Drispac Reg.	206	SXS
Drispac Sup.	48	SXS
Permalose	540	SXS
KCL	1340	SXS
Bicarb.	31	SXS

NOTE: The quantities of mud materials given above do not include any losses, nor do they account for any inaccuracy in weight measurements.