

3.2 Summary production testing

DST No. 1

The well was plugged back to 1702 m and perforated from 1567.5 - 1562.5 m.

Pregravel pack production

After the well was backsurged (17 bbls) the well was shut in by the choke. The two downhole pressure gauges were run into the hole and set in the 2 7/8" nipple. Opened the well and flowed through the separator until the flow rate had been accurately measured. The well was shut in after 3 hours and killed after a 2-hours build up period.

Post gravel pack production

The well was opened for initial flow for clean up.

The well was shut in at the tester valve and the choke for initial build up for 1 hour.

The well was opened for the second flow period. The flow time was 19.5 hours.

The well was shut in at the tester valve and the choke for pressure build up. The pressure build up duration was 6 hours.

The well was opened for the third flow period and flowed on 50/64" choke. The well was shut in at the choke after 2 hours due to icing problems. Pumped methanol to dissolve the ice in the tubing above the subsea test tree. The well was then opened to flow. The well was shut in after 1.5 hours due to icing problems. Was unable to inject methanol. Had to unlatch and repair the subsea test tree. The well was once more opened for the third flow period. The flow time was 13 hours.

The well was shut in at the tester valve for pressure build up. Killed the well and pulled out of the hole with the test string.

DST No. 2

The well was plugged back to 1500 m and perforated from 1441 m to 1435 m.

Pregravel pack production

After the well was backsurged (15 bbls), the well was shut in at the choke. The two downhole gauges were run and set in the 2 7/8" nipple. Flowed the well on 24/64" choke until the flow rate had been accurately measured. The well was shut in after 3 hours and killed after a 2 hours build up period.

Post gravel pack production

The well was opened and flowed on 24/64" choke for 2 hours for clean up.

The well was then shut in. Had to unlatch and redress the subsea test tree.

The well was opened and flowed on 2 x 17/64" choke for 4 hours. The wellhead pressure was + - 134 bar and the gas rate was + - $0.22 \times 10^6 \text{ m}^3/\text{D}$.

Changed the choke and flowed the well on 2 x 28/64" choke for 3 hours. The wellhead pressure was + - 128 bar and the gas rate was + - $0.54 \times 10^6 \text{ m}^3/\text{D}$.

Changed the choke and flowed the well on 2 x 34/64" choke for 3 hours. The wellhead pressure was + - 120 bar and the gas rate was + - $0.71 \times 10^6 \text{ m}^3/\text{D}$.

Changed the choke and flowed the well on 80/64" choke for 3 hours. The wellhead pressure was 97 - 110 bar and the gas rate was 0.88 - 1.02 x 10⁶ m³/D. The pressure and the rate did not stabilize.

The well was shut in for pressure build up. Started to kill the well after 6 hours. Pulled out of the hole with the test string and plugged back the well for permanent abandonment.

FMT/DST RESULTS

31/6 - 1

No.	Depth. (mRKB)	P.H. (bar)	PF (bar)	PERM. (Remarks)					
RUN 4A					RUN 4A				
1/1	1338.6	177.19	155.88	Poor	49/1	1582.0	209.32	159.73	Very good
2/1	1342.8	177.84	151.81	Poor	50/1	1586.4	209.80	—	(No seal)
3/1	1347.8	178.57	156.26	Poor	51/1	1586.4	209.80	160.15	Very good
4/1	1353.5	179.33	156.06	Very good	52/1	1589.0	210.22	160.40	Very good
5/1	1358.2	180.02	156.18	Very good	53/1	1592.1	210.63	160.74	Very good
6/1	1367.7	181.12	156.83	(PF too high)	54/1	1594.3	210.84	160.97	Very good
7/1	1371.0	181.53	156.33	Very good	RUN 4B				
8/1	1367.7	181.12	156.30	Very good	1/2	1573.8	208.29	159.40	Very good
9/1	1375.5	182.15	156.42	Very good	2/2	1578.5	208.29	159.40	Very good
10/1	1380.0	182.71	156.46	Very good	3/2	1564.6	207.18	159.33	Sample 1
11/1	1389.4	183.95	156.13	Very good	Segregated sample No. 1 at 1564.6 m: 2 ³ / ₄ gal chamber:- 12.7 SCF gas Opening pressure: 7 bar. (Drained on rig floor)				
12/1	1395.3	184.71	157.43	(Supercharg)	RUN 4C				
13/1	1395.3	184.71	157.40	(Supercharg)	1/3	1444.6	191.46	157.95	Sample 2
14/1	1407.2	186.43	157.34	(Supercharg)	Segregated sample No. 2 at 1444.6 m: 2 ³ / ₄ gal chamber - 38.5 SCF gas, tr water/filtrate Opening pressure: 131 bar. (Drained on rig floor)				
15/1	1395.2	184.84	157.03	(Supercharg)	RUN 4D				
16/1	1414.0	187.33	158.69	(Supercharg)	1/4	1564.0	207.25	159.47	Sample 3
17/1	1389.4	184.15	156.59	(See test 11/1)	Segregated sample No. 3 at 1564.0 m: 2 ³ / ₄ gal chamber:- 47.8 SCF gas, tr water/filtrate Opening pressure: 124 bar. (Drained on rig floor)				
18/1	1407.2	186.50	156.92	Very good	Note: PF values in Run 1 read directly in bara (flop petrol SSDP/CRG gauges), no temp. corr. required. All other pressure recordings from strain gauge, temp. corr. (+4 psi, +15) and corr. to bara.				
19/1	1421.2	188.36	156.99	Very good					
20/1	1429.4	189.33	157.03	Good					
21/1	1438.2	190.43	157.19	Very good					
22/1	1445.2	191.26	157.21	Very good					
23/1	1458.2	192.91	157.34	Very good					
24/1	1470.5	194.57	157.52	Very good					
25/1	1477.1	195.74	157.71	Very good					
26/1	1477.1	195.39	157.65	Very good					
27/1	1484.0	196.43	157.81	Very good					
28/1	1487.2	196.70	157.67	Very good					
29/1	1484.0	196.36	158.00	(Poor seal)					
30/1	1496.7	198.08	157.99	Very good					
31/1	1507.5	199.46	—	(No seal)					
32/1	1507.5	199.53	—	(No seal)					
33/1	1520.5	201.12	158.09	Very good					
34/1	1529.0	202.22	—	(No seal)					
35/1	1527.0	202.08	158.15	Very good					
36/1	1543.0	204.22	158.34	Very good					
37/1	1548.8	204.91	158.35	Very good					
38/1	1555.2	205.67	158.47	Very good					
39/1	1562.8	206.70	158.61	Very good					
40/1	1564.6	206.91	—	(No seal)					
41/1	1564.6	206.84	158.63	Very good					
42/1	1566.2	—	(No seal)						
43/1	1566.2	207.11	158.77	Very good					
44/1	1570.1	207.67	158.70	Very good					
45/1	1573.0	208.08	131.14	Low					
46/1	1573.1	208.15	131.14	Low					
47/1	1573.3	208.15	130.24	Low					
48/1	1575.6	208.49	159.20	Very good					

FMT/DST RESULTS

No.	Depth. (mRKB)	P.H.	PF	PERM. (Remarks)	
RUN 4E					DST 1
1/5	1371.0	181.60	157.13	Sample 4	<p>Note: All pressure readings from strain gange, temp. corrected (+4 psi, +15) and corrected to read bara.</p> <p>Perforated Interval : 1562.5 - 1567.5 m Choke size : 56/64" Gas flow rate : 29750 MSCF/D Gas gravity : 0.635 Oil gravity : 0.74 — Well head pressure : 1580 PSIG K : 1800 mD</p>
2/5	1964.0	257.93	208.07	(Poor Seal)	
3/5	1965.0	258.82	200.70	(Poor Seal)	
4/5	1966.2	298.96	195.67	Low	
5/5	1969.5	259.45	198.98	Very good	
6/5	1965.0	258.76	198.50	Very good	
7/5	1964.0	258.62	198.36	Very good	
8/5	1966.2	258.89	184.29	Low	
Segregated sample No. 4 at 1371.0 m: 2 ³ / ₄ gal chamber:- 50.4 SCF gas, tr waterfiltr. Opening pressure: 127 bar.(Drained on rig floor)					
RUN 4F					DST 2
1/6	1573.6	208.42	149.47	Sample 5	<p>Perforated interval : 1435 - 1441m Choke size : 48/64" Gas flow rate : 25900 MSCF/D Gas gravity : 0.630 Oil gravity : 0.78 — Well head Pressure : 1752 PSIG K : -</p>
Segregated sample No. 5 at 1573.6 m: 2 ³ / ₄ gal chamber:- 3 SCF gas, 0.75 l oil, 7.8 l water/filtrate (41.000 ppm C1 ⁻). Opening pressure: 51 bar.(Drained on rig floor)					
RUN 4G					
1/7	1570.2	207.73	158.92	Sample 6/1	
2/7	1576.5	208.63	159.75	Sample 6/2	
Segregated sample No. 6/1 at 1570.2 m: 2 ³ / ₄ gal chamber:-46 SCF gas, 0.2 l water/filtrate. Opening pressure: 93 bar. (Drained on rig floor)					
Segregated sample No. 6/2 at 1576.5 m: 2 ³ / ₄ gal chamber:- No gas, 8.9 l water/filtrate (54.000 ppm C1 ⁻). Opening pressure: 0. (Drained on rig floor)					

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WELL NAME:

Norsk Hydro A/S
Nortrym
31/6-1

MUD PROPERTY RECAP

DATE	DEPTH	DENSITY	VISCOSITY	FILTRATE		HY/HP III		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS			CEC	OTHER																													
				feet	PPG/Spc/SG	secs	cgs		Cake	°500psi	PV	YP	10'	10'	Cl	Ca	Pl	MI	Pm	Oil		Water	Corr. Solids	PPB	MG	SD	KCl																								
																												1 1/2"/32" min	1 1/2"/32" min	cp	lbs/100ft²-gms/100cm²	mg/litre	ppm	%	%	%	Bent. Eq.	mg/l	0/0	ppb											
1983	metres																																																		
14.7	-	1.05	100	11	2	-	-	9.7	25	18.5	15	22.5	1500	40	.2	.5	-	0	98	2	33	80	-																												
15.7	-	1.06	100	10.5	2	-	-	9.1	21	44	37	37	3100	40	.1	.3	-	0	96	4	33	100	0																												
16.7	Pit	1.06	68	15.0	2	-	-	9.5	9	18	28	29	1800	0	.15	.35	-	0	96	4	24	0	0																												
17.7	521	1.09	61	N.C.	N.C.	-	-	8.8	5	17	10	14	22200	2860	.07	.5	-	0	86	12	15	1260	TR																												
	655	1.08	42	36.0	3	-	-	7.9	4	7	4	6	19000	1400	.04	.45	-	TR	91	9	18	910	TR																												
18.7	765	1.14	50	30.0	3	-	-	8.3	6	15	13	13	17000	1100	.03	.35	-	TR	90	10	27	780	TR																												
19.7	514	1.10	45	31.4	3	-	-	8.3	7	11	7.5	7.5	12500	460	.1	.2	-	0	92	8	24	580	1/4																												
20.7	765	1.12	38	29.8	3	-	-	8.2	7	12	9	9	12000	320	.02	.23	-	0	92	8	27	720	TR																												
21.7				No check																																															
22.7	Pit	1.18	46	4.7	1	-	-	9.8	13	9	2	2	77000	100	.3	.8	-	0	90	10	0	140	0	48																											
23.7	778	1.18	45	5.5	1	-	-	8.9	11	9.5	3	3.5	73000	200	.15	.35	-	0	90	10	0	240	1/4	45																											
24.7	1022	1.19	46	6.2	1	-	-	8.8	11	10	3	5	77000	400	.12	-	-	0	90	10	7	400		46																											
	1303	1.25	45	7.7	1	-	-	8.5	14	10.5	3	6	73000	440	.05	.6	-	0	86	14	15	400	1/4	45																											
25.7	1325	1.28	50	9.8	1	-	-	8.5	16	12	3.5	6	74000	440	.05	.4	-	0	86	14	15	460	1/4	45																											
	Pit	1.29	46	9.3	1	-	-	8.3	16	10	4	11	70300	460	.03	.48	-	0	86	14	15	440	1/4	43																											
26.7	1325	1.30	50	9.5	1	-	-	8.4	16	14	4	12	75300	680	.03	.45	-	0	85	15	15	460	TR	40																											
27.7	Pit	1.31	67	5.6	1	15.8	2	9.0	19	12.5	4	7	75300	220	.3	.7	-	0	84	16	15	200	TR	38																											
28.7	1340	1.31	44	9.8	1	-	2	8.5	14	7	3	6	67000	600	.15	.65	-	TR	85	15	15	200	TR	36																											
	1341	1.31	46	6.1	1	14.0	2	10	14	8	1.5	5.5	69800	60	.32	1.0	-	TR	85	15	15	20	1/4	36																											

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WELL NAME:

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31/6-1

MUD PROPERTY RECAP

DATE	DEPTH	DENSITY	VISC-OSITY	FILTRATE			HYHP III		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS			C E C	OTHER			
				metres	PPG/ Spcl/ SG	secs	Cake ccs	°500psi		PV	YP	10'	10'	CI	Ca	PI	MI	Pm	Oil	Water	Corr. Solids		PPB	MG	SAND	KCl
1983	29.7	1.32	44	6.1	1	16	2	10.5	14	7	2.5	5	69000	80	.5	1.4		TR	85	15	15	40	TRACE	38		
	1352	1.31+	44	5.8	1	14	2	10.5	14	8	2.5	6	68000	160	.3	1.0		TR	85	15	12.5	80	TRACE	36		
	30.7	1.31+	46	5.7	1	14.2	2	10.5	14	7.5	2.5	5	69000	160	.4	1.0		TR	85	15	15	80	TRACE	40		
	1363	1.31	45	5.6	1	14	2	10.5	15	6.5	2	5	68000	180	.2	.8		0	85	15	12.5	0	TRACE	36		
	31.7	1.31	47	5.5	1	13.8	2	10.5	15	7.5	2.5	5	68000	160	.3	.9		TR	85	15	15	0	TRACE	38		
	1389	1.31	46	5.3	1	13.2	2	10.5	17	7.5	2.5	6	68000	220	.1	.7		TR	85	15	12.5	0	TRACE	40		
	1.8	1.31	48	4.8	1	12.4	2	10.5	16	7.5	2.5	5	68000	200	.15	.8		TR	85	15	15	0	TRACE	38		
	1412	1.31+	47	4.5	1	13.0	2	10.5	15	8.5	3	5.5	67000	160	.12	.77		0	84	16	12	24	TRACE	40		
	2.8	1.31	47	4.4	1	12.6	2	10.5	17	8	2.5	5	67000	200	.1	.7		TR	85	15	13	0	TRACE	40		
	1434	1.31+	47	4.5	1	12.4	2	10.5	16	8	2.5	6	63000	120	.15	.85		TR	85	15	12	0	TRACE	40		
	3.8	1.31	46	5	1	12.5	2	10.5	16	7	2	5	63000	120	.13	.77		TR	85	15	11	15	TRACE	42		
	4.8	1.31	45	4.7	1			10.4	16	7.5	2.5	5	62500	160	.1	.75		TR	85	15	0	0	TRACE	38		
	1466	1.31	45	4.3	1	12.4	2	10.1	16	6.5	2.5	5	65000	192	.15	.77		0	85	15	11	17	TRACE	36		
	5.8	1.31	49	4.2	1			10.1	16	9	3	6	63500	180	.05	.45		0	85	15		0		38		
	1492	1.31	47	4.5	1	12.5	2	10.5	15	7.5	2.5	6	62500	112	.1	.85		0	85	15	10.5	5	TRACE	42		
	6.8	1.31+	47	4.2	1			10.2	16	7	2.5	6.5	62500	147	.1	.85		0	85	15		7	TRACE	42		
	1516	1.31	46	4.6	1			10.0	15	7.5	2.5	6	62500	112	.13	.88		0	85	15	10	5	TRACE	42		
	7.8	1.31	46	4.4	1			10.3	15	7.5	2.5	7	62000	72	.16	1.16		0	85	15		7		44		
	1540	1.31	47	4.5	1	12		10.1	15	7.5	2.5	7	62000	72	.18	1.08		0	85	14.5	10.5	7	TRACE	44		

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WELL NAME: Norsk Hydro A/S
 Nortrym
 31/6-1

MUD PROPERTY RECAP

DATE	DEPTH feet metres	DENSITY PPG/ Spcf/ SG	VISC- OSITY secs	FILTRATE		HY/HP IIII		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS			CEC		OTHER		
				ccs	Cake 1"/32" /min	ccs	1"/32" /min		PV cp	YP lbs/100ft ² -gms/cm ²	10" 10'	10' 100'	Cl mg/litre	Ca ppm	P _f	M _f	P _m	Oil %	Water %	Corr. Solids %	PPB Bent. Eq.	MG mg/l	O/O	KCl ppb	
1983	1549	1.31	47	4.8	1			9.9	14	7.5	2.5	7	62500	80	.08	.68		0	85.5	14.5			0	TRACE	44
	1561	1.31	46	4.4	1	12	2	10.1	15	7.5	2.5	7	62000	80	.15	.75		0	85	15	11	TR	TRACE	44	
9.8	1576	1.31	47	4.6	1	12.6	2	10	15	7	2	6	62000	100	.12	.63		TR	85.5	14.5	10.5	0	TRACE	44	
10.8	1584	1.31	47	4.7	1			9.9	15	7	2	6	60000	92	.23	.88		0	85.5	14.5		0		43	
	1596	1.31+	47	4.2	1	12.8	2	9.8	15	7.5	2	6.5	61500	120	.11	.53		0	85	15	10	5	TRACE	46	
11.8	1607	1.31	48	4.3	1	-	-	10.1	15	7.5	2	6.5	61000	84	.1	.66		0	86	14		0		43	
	1607	1.31+	46	4.5	1	12.4	2	9.9	15	7.5	2	7	58000	88	.07	.67		0	86	14	10.5	0	TRACE	42	
12.8	1707	1.32	47	5.0	1	12.1	2	9.6	16	7	3	8	60400	100	.28	1.0		0	85	15	10	12	TRACE	37	
13.8	1742	1.33	51	4.5	1			10.1	19	9	2	8	53000	80	.12	.53		0	84	16	10	0	TRACE	34	
	1770	1.32	49	4.4	1	12.3	2	9.7	17	7.5	2	9	63600	80	.11	.87		0	84	16	10	0	TRACE	37	
14.8	1795	1.31	47	4.3	1			9.2	16	8	2.5	10	62500	200	.15	.65		0	84	16	11	72	TRACE	37	
	1890	1.32	51	5.4	1	12	2	9.9	17	8.5	2.5	10.5	61400	40	.3	.55		0	84	16	11	12	TRACE	38	
15.8	1920	1.32	50	5.4	1			9.9	14	8	3	10	62500	120	.2	.34		0	84	16	11	48	TRACE	33	
	1960	1.32	48	5.8	1	12.6	2	10.0	17	7.5	3	11	63400	80	.29	.43		0	84	16	11	24	TRACE	33	
16.8	1980	1.32	44	5.8	1	12.4	2	9.9	17	7.5	3	11	63400	100	.28	.43		0	85	15	11	24	TRACE	33	
17.8	1980	1.32	44	5.8	1	12.4	2	9.7	17	7.5	3	11	63400	100	.28	.43		0	85	15	11	24	TRACE	33	
18.8	1980	1.32	43	5.8	1	12.4	2	9.65	17	7.5	3	11	63400	100	.28	.43		0	85	15	11	24	TRACE	33	
19.8	1980	1.32	44	5.9	1	12.4	2	9.7	17	7.5	3	10.5	63400	80	.29	.43		0	85	15	10	12	TRACE	33	
20.8	1980	1.10	41	10.1	1	-	-	10.3	9	5.5	1.5	2	21400	200	.24	.38		0	95	5	13	12	TRACE		

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Norsk Hydro A/S
WELL NAME: Nortrym
 31/6-1

MUD PROPERTY RECAP

DATE	DEPTH feet metres	DENSITY PPG/ Spc/ SG	VISC- OSITY secs	FILTRATE		HT/HP IIII		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS			CEC PPB Bent. Eq.	OTHER	
				ccs	Cake 1"/ 32/min	°500psi			PV cp	YP lbs/100ft ² -gms/cm ²	10" gms/cm ²	10' gms/cm ²	Cl mg/litre	Ca ppm	PI	MI	Pm	Oil %	Water %	Corr. Solids %		MG++	SAND
						ccs	1"/ 32/min																
21.8.	1860	1.10	44	10.4	1	23	2	11.8	8	5	1	2	20.900	280	.5	.78	0	95	5	13	72	TR	
22.8.	2073	1.10	52	11.0	1	24	2	12.2	10	8	1	3	19.300	600	.04	1.5	0	95	5	13	12	TR	
23.8.	2136	1.11	51	11.4	1	23	2	11.5	14	8	2	8	16.500	60	.52	.8	0	95.5	4.5	15	60	TR	
	2297	1.10	44	10.9	1	23	2	10.5	12	6.5	2	10	16.500	160	.26	.48	0	95.5	4.5	15	12	TR	
24.8.	2387	1.11	46	12.6	1	26	2	11.3	8	6	3	12	17.500	320	.32	.5	0	95	5	15	24	TR	
	2410	1.10+	42	12.5	1	-	-	11.3	9	5.5	1	10	17.500	320	.3	.42	0	95	5	15	24	TR	
25.8.	2486	1.10-	43	19	2	29.5	3	11.5	9	6.5	5	11	15.800	400	.39	.55	0	94	6	15	24	TR	
	2568	1.10+	42	21	2	-	-	11.2	7	6	5	11	15.800	400	.13	.22	0	95	5	15	24	TR	
26.8.	2673	1.10	40	23	2	-	-	10.4	5	6	6	12	15.500	800	.1	.29	2.4	0	94.5	5.5	15	0	TR
27.8.	2731	1.10	40	19.5	2	-	-	10.3	7	8	8	13	15.500	680	.08	.27	0	94.5	5.5	-	-	-	
	2765	1.10	41	18	2	-	-	10.3	7	7	7	11	16.000	600	.08	.29	2.0	0	95	5	15	30	-
	2820	1.10	42	18.5	2	-	-	10.7	7	9	9	14	15.500	440	.07	.27	2.3	0	94	6	0	TR	
28.8.	2860	1.10+	43	21	2	-	-	11.4	7	7.5	7	10.5	16.000	520	.18	.37	2.35	0	94	6	14	0	TR
29.9.	2904	1.10	43	19	2	-	-	10.6	7	8.5	7	12	680	.04	.19	0	94	6					
	2973	1.10	40	23	3	-	-	9.5	7	8	6	8	17.000	650	.02	.14	1.85	0	94.5	6	16	30	TR
30.8.	3022	1.10	40	22	3	-	-	9.1	7	8	7	9	19500	580	.01	.16	0	94	6		70		
	3056	1.10	40	20	2	-	-	9.4	7	8	8	9	19000	460	.01	.19	0	95	5	15	49	TR	
31.8.	3080	1.10+	39	20	2	-	-	9.3	6	6.5	5	8	18500	350	.03	.25	0	95	5		30		

NORSK PETROLEUM SERVICES A/S

c/o Dolphin Services A/S
4056 Tananger, Norway. Telephone 04-696524. Telex 33235

WELL NAME:

Norsk Hydro A/S

Nortrym

31/6-1

MUD PROPERTY RECAP

DATE	DEPTH feet metres	DENSITY PPG/ Spct/ SG	VISC- OSITY secs	FILTRATE ccs	HY/HP III		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS			C E C		OTHER		
					Cake 1"/32"	°500psi 1"/32"		PV cp	YP lbs/100ft ² -gms/cm ²	10" 10'	10' 100' mg/litre	Cl ppm	Ca	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	PPB Benl. Eq.	MG++	SAND		
																							ccs	1"/32"
31.8	3080	1.10 +	39	20	2		9.3	6	6.5	5	8	18500	350	.03	.25		0	95	5			30		
	3104	1.10	41	19	2		9.0	6	7	5	7	18500	160	.01	.2		0	95	5	15		3		TR
1.9.	3159	1.10	41	18	2		8.8	7	7	6	11	18000	200	.02	.26		0	95	5	15		36		
	3197	1.10+	40	17	2		9.1	7	7.5	7	13	17000	220	.05	.23		0	94.5	5.5	15		24		TR
2.9	3264	1.10	43	17	2		8.7	8	8.5	10	13	16000	160	.1	.3		0	94	6					
	3304	1.10	42	17	2		9.4	7	9.5	8.5	13	15000	140	.05	.25		0	92	8					
	3325	1.10	42	18	2		9.3	7	11	9	14	15500	180	.05	.25		0	93	7	15		24		TR
3.9.	3388	1.10	43	18.5	2		9.2	8	10	9	12.5	16000	260	.1	.3		0	93.5	6.5			40		
	3477	1.10	40	20	2		9.0	7	9	8.5	12	16000	300	.1	.3		0	94.5	5.5	15		48		TR
4.8.	3481	1.10	42	21	2		9.0	7	10	9	12	16000	260	.1	.3		0	94.5	5.5			37		
	3555	1.11	42	20	2		8.9	8	10.5	9	12	17500	220	.1	.3		0	94	6			48		
	3586	1.10+	42	20	2		9.0	8	10.5	8.5	12	16500	200	.1	.3		0	94	6	12.5		48		TR
5.9.	3592	1.10+	43	19.5	2		9.0	8	9	7.5	13	17000	200	.1	.3		0	94.5	5.5	12.5		48		TR
6.9.	3610	1.10	46	21	2		9.6	8	13	9	18	17000	240	.1	.3		0	94.5	5.5			24		TR
	3640	1.10	43	23	3		9.3	9	11.5	8	13	17000	240	.1	.3		0	94.5	5.5	13		48		TR
7.9.	3664	1.11	42	23	3		8.9	7	10.5	7.5	12	17000	220	.1	.4		0	94	6			48		
	3699	1.12	41	22	3		9.0	7	11	7	11	17000	200	.1	.3		0	94	6			48		
	3744	1.11	41	20	2		9.4	7	10	7.5	11	17500	180	.1	.3		0	94	6	11		48		TR
8.9.	3792	1.12	39	21	2		8.7	6	7.5	7	11	17500	200	.1	.4		0	94.5	5.5			48		

NORSK PETROLEUM SERVICES A/S
 c/o Dolphin Services A/S
 4056 Tananger, Norway. Telephone 04-696524. Telex 33235

WELL NAME: Norsk Hydro A/S
 Nortrym
 31/6-1

MUD PROPERTY RECAP

DATE	DEPTH feet metres	DENSITY PPG/ Spc/ SG	VISC- OSITY secs	FILTRATE ccs	HT/HP IIII		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS				CEC	OTHER	
					Cake 1"/ 32/min	°500psi 1"/ 32/min		PV cp	YP lbs/100ft ² - gms/cm ²	10" 7.5	10' 13	Cl mg/litre	Ca ppm	PI	MI	Pm	Oil %	Water %	Corr. Solids %	PPB Bent. Eq.		MG++	SAND
8.9.	3800	1.11+	44	20.5	2		8.8	8	10	7.5	13	17500	170	.1	.4	0	94	6	12	48	TR		
10.9.	3800	1.11	46	23	2		8.6	10	8	8	14	18800	160	.1	.5	0	95	5	12	48	TR		
11.9.	3829	1.11	44	22	2		9.7	9	11	8	13.5	17200	100	.1	.4	0	94	6	12	48	TR		
	3891	1.10	43	21	2		9.4	9	9.5	8	13	17200	100	.1	.5	0	95	5	12	36	TR		
12.9.	3927	1.11	41	28	3		9.3	6	16	11	14	17200	280	0	.5	0	95	5	12	12	TR		
	3959	1.10	53	26	3		9.8	8	13	8	13	16800	100	.2	.5	0	95	5	12	12	TR		
13.9.	3999	1.11	38	19	1		10.5	7	6	2.5	8	15800	80	.15	.43	0	95	5	12	12	TR		
	4040	1.11	40	20	1		10.3	9	6.5	4	10.5	15800	100	.13	.48	0	95	5	12	12	TR		
14.9.	4040	1.10	41	21	1		9.3	7	6	4	10	15800	80	.11	.42	0	95	5	12	12	TR		
15.9.	4046	1.10	41	24	2		9.2	6	6.5	5	11	15400	200	.1	.43	0	94	6	14	12	TR		
	4070	1.10	45	22	2		9.4	7	8	4.5	10	15400	40	.15	.44	0	95	5	14	12	TR		
16.9.	4070	1.11	42	24	2		9.9	6	8	8	13	15300	80	.21	.56	0	95	5	14	48	TR		

Oslo - Norway

OPERATOR : NORSK HYDRO A/S
 COORDINATES : 60° 38' 44.89" N
 : 03° 40' 52.28" S

SPUD IN : JULY 15, 1983
 WELL COMPL. : OCTOBER 29, 1983
 RIG : NORTRYM

WATER DEPTH : 302 m
 RKB to MSL : 25 m
 RKB to SEABED : 327 m

