

RFT RESULTS

WELL: 6407/7-3

RUN NO. 3A,3B and 3C Pressures from HP gauge.SG pressures No.31-37 run 3B.

Run/ Test no.	Depth		IHP (bar)	FP (bar)	FHP (bar)	Permeability/ Remarks
	m RKB	m TVD				
3A / 1	2855.0	2852.8	428.00	401.57	427.82	Moderate
2	2856.7	2854.5	428.10	401.64	428.20	Poor
3	2858.2	2856.0	428.20	401.51	428.29	Poor
4	2860.0	2857.8	428.60	401.61	428.59	Moderate-Poor
5	2863.3	2861.1	429.10	401.98	429.20	Good
6	2855.0	2852.8	427.85	401.52	427.85	Moderate,New tie in.
7	2864.8	2862.6	429.36	401.99	429.42	Very poor
8	2874.9	2872.7	430.82	—	430.80	Tight
9	2880.9	2878.7	431.72	—	431.80	Tight
3B / 1	2863.5	2861.3	428.60	401.95	428.58	Poor
2	2874.8	2872.6	430.45	—	430.40	Tight
3	2889.5	2887.3	432.72	—	432.70	Tight
4	2937.3	2935.0	439.04	—	439.25	Tight,Tie in 2975-2950m.
5	2947.6	2945.3	440.64	427.72	440.92	Very poor
6	2956.6	2954.3	442.34	426.93	442.26	Moderate
7	2959.0	2956.7	442.60	427.02	442.65	Poor
8	2960.0	2957.7	442.82	427.54	442.80	Moderate
9	2968.9	2966.6	442.23	428.93	443.98	Very poor
10	2974.2	2971.9	444.89	427.98	444.71	Very good
11	2982.9	2980.6	446.24	—	446.25	Tight
12	2992.6	2990.3	447.73	429.44	447.53	Moderate
13	2996.5	2994.2	448.04	429.62	447.95	Moderate
14	2999.0	2996.6	448.34	429.71	448.26	Moderate
15	3004.2	3001.8	449.04	429.84	448.95	Good
16	3001.9	2999.5	448.65	429.76	448.65	Moderate
17	3008.9	3006.6	450.02	430.31	449.62	Moderate
18	3014.0	3011.7	450.33	431.00	450.43	Very poor
19	3011.2	3008.9	450.04	430.54	449.89	Moderate,Depth check OK
20	3032.6	3030.2	453.10	432.99	453.01	Poor
21	3046.6	3044.2	455.42	437.10	455.04	Very poor,Supercharged
22	3048.5	3046.1	455.34	436.19	455.39	Very poor,Supercharged
23	3050.3	3047.9	455.85	435.50	455.68	Very poor,Supercharged
24	3053.3	3052.9	456.66	436.18	456.40	Very poor-Tight
25	3059.5	3057.1	457.13	—	457.20	Tight
26	3064.6	3062.2	458.03	435.22	457.84	Very poor
27	3067.2	3064.8	458.38	435.18	458.20	Poor
28	3063.2	3060.8	457.31	435.90	457.62	Very poor
29	3079.9	3077.5	460.42	444.50	460.14	Very poor-Tight.Unstable HP+SG
30	3087.5	3085.1	461.28	441.76	461.22	Very poor-Tight
31	3103.2	3100.8	463.85	—	—	Very poor-Tight. Plugging HP.
32	3118.5	3116.0	—	—	—	Seal failure. — —
33	3125.5	3123.1	466.7	441.82	466.7	Poor-Very poor. — —
34	3144.6	3142.1	469.6	447.77	469.6	Very poor. — —
35	2863.3	2861.1	427.8	401.80	427.8	Moderate,Tie in 2875-2850m
36	2863.1	2860.9	427.8	—	427.8	Poor. — —
37	2855.0	2852.8	426.6	401.57	—	Moderate,Segregated sample.
3C / 1	2860.0	2857.8	426.38	401.66	426.68	Moderate
2	2999.0	2996.6	448.10	429.90	447.52	Moderate. HP not stabilized.
3	3004.2	3001.8	448.60	430.33	—	SG is OK. Good. Segregated sample.

Segregated sample 2855.0m: Shut in pressure 401.11 Bar/100°C
 Contents 2 3/4 gal chamber:0.5 SCF gas,C1=35624 ppm,C2=5236 ppm,C3=1862 ppm,IC4=152 ppm,NC4=259 ppm.
 10 litres water (Chlorides: 25000 ppm). No oil. No H₂S.

Segregated sample 3004.2m: Shut in pressure 429.66 Bar/107.6°C
 Contents 2 3/4 gal chamber:0.2 SCF gas,C1=942900 ppm,C2=135870 ppm,C3=40520 ppm,IC4=2625 ppm
 NC4=3583 ppm,C5=380 ppm. 10 litres water (Chlorides: 25000 ppm). No oil. No H₂S.Thc 1 gal chambers from both
 segregated samples were opened and contained water and traces of gas as for the 2 3/4 gal chambers.

DST RESULTS		WELL:6407/7-3		
TEST No.	1	2A	3	
PERFORATED INTERVAL (mRKB)	3046.8-3067.8	2990.0-3014.0	2852.1-2867.9	
CHOKE SIZE (mm)	25.4	50.8	25.4	
OIL/COND. FLOW RATE (m ³ /D)	16	527	950	
GAS FLOW RATE (m ³ /D)	—	119389	396150	
GOR (m ³ /m ³)	—	227	417	
OIL/COND. GRAVITY (g/cc)	0.831	0.809	0.808	
GAS GRAVITY (air=1)	—	0.737	0.745	
FWHP (bar)	1.27	32.5	57.9	
SIWHP (bar) (DOWNHOLE SHUT IN.)	49.16	105.3	150.6	
WHT (deg C)	11.3	53.8	64.7	
BHT (deg C)	116.0	113.7	111.9	
BHFP (bar)	270.37	150.5	241.71	
BHSIP (bar)	423.81	418.71	395.44	
BS&W (%)	—	TRACES	TRACES	
CO ₂ (%)	—	1	2	
H ₂ S (ppm)	—	< 1	< 1	
K (mD)	0.8	7.0	23.8	
S	+6.8	÷ 0.2	÷ 1.7	
Pi (bar)	427.37	419.84	398.16	
DEPTH OF BH MEASUREMENTS (mRKB)	3003.3	2889.1	2795.5	

Daily mud properties

Date
8/7-1988

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System : Boredata Sandnes
Well: 6407/7-3
Mud Contractor: PROMUD
Data: "Mid depth" from table 3, otherwise from table 14
Norak
Hydro

Date	Mid. depth m,MD	Mud dens. (SG)	PV cps	YP mPa	GEL 0 mPa	GEL 10 mPa	Ph	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity Pf Pm Hf	Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. 600 rpm	water at 115 gr. 300 rpm	200 rpm	100 rpm	5 gr. 6 rpm	F 3 rpm	Mud type
880227	354	1.03	0	0																		SPUD
880228	354	1.03	0	0																		SPUD
880229	354	1.03	0	0																		SPUD
880301	354	1.03	0	0																		SPUD
880302	394	1.03	0	0																		SPUD
880303	440	1.03	0	0																		SPUD
880304	442	1.03	0	0																		SPUD
880305	891	1.03	0	0																		SPUD
880306	829	1.08	0	0																		SPUD
880307	525	1.08	0	0																		SPUD
880308	525	1.07	0	0																		SPUD
880309	525	1.05	0	0																		SPUD
880310	536	1.07	5	7	2	3	7															SPUD
880311	811	1.14	5	7	2	3	9.7															GEL/S. WATER
880312	1116	1.14	6	11	8	8	8.8															GEL/S. WATER
880313	1116	1.15	7	12	8	10	8.6															GEL/S. WATER
880314	1116	1.14	5	9	7	9	8.5															GEL/S. WATER
880315	1176	1.53	12	7	1	2	8.4	8.4		49000/49000	0.1	0.5	0.6		20	38	26	19	10	2	1	GEL/S. WATER
880316	1649	1.6	15	9	6	16	8.4	12.6		47000/47000	0.05	0	0.4	500/500	22	47	32	22	18	9	6	GEL/S. WATER
880317	2151	1.6	18	9	4	22	8.2	11.6		54000/54000	0	0	0.4	540/540	23	54	36	25	18	7	4	GEL/S. WATER
880318	2233	1.6	17	8	3	22	8.5	9		52000/52000	0.02	0	0.4	540/540	23	50	33	25	16	5	3	GEL/S. WATER
880319	2407	1.6	18	14	10	31	8.2	13		67000/67000	0	0	0.4	500/500	23	64	46	32	24	16	10	GEL/S. WATER
880320	2465	1.6	15	13	9	28	8.2	14		69000/69000	0	0	0.5	500/500	23	55	40	31	25	19	16	GEL/S. WATER
880321	2560	1.6	16	13	12	29	8.3	16		69000/69000	0	0	0.3	720/720	23	58	42	32	26	20	17	GEL/S. WATER
880322	2658	1.6	18	8	9	29	8.2	13.1		65000/65000	0	0	0.45	750/750	23	53	35	30	23	17	12	GEL/S. WATER
880323	2711	1.6	18	9	9	30	8.2	14		66000/66000	0	0	0.4	740/740	22	55	37	30	23	19	13	GEL/S. WATER
880324	2750	1.6	14	6	3	15	8.2	13.5		67000/67000	0	0	0.4	620/620	22							GEL/S. WATER
880325	2750	1.6	17	9	6	25	8.2	14.2		67000/67000	0	0	0.4	600/600	22	52	35	29	23	19	14	GEL/S. WATER
880326	2750	1.6	18	10	10	28	8.2	14.2		66000/66000	0	0	0.4	600/600	22	56	38	30	25	20	17	GEL/S. WATER
880327	2750	1.6	10	5	2	4	11	13		60000/60000	0.1	4.2	0.2	630/630	15	30	20	15	10	60	3	GEL/S. WATER
880328	2753	1.59	12	13	13	30	9.7	20		60000/60000	0.1	0.6	0.3	520/520	22	51	39	34	29	29	36	NEWDR/KCL/P
880329	2841	1.46	18	5	2	4	9.9	5.2	14.6	32000/32000	0.1	1	0.2	640/640	16	47	29	19	12	4	2	NEWDR/KCL/P
880330	2873	1.46	19	5	2	4	9	5.2	14.8	35000/35000	0.1	0.9	0.3	400/400	16	47	29	19	12	4	2	NEWDR/KCL/P
880331	2898	1.46	16	5	2	3	9.6	4.6	14.2	33000/33000	0.3	1	0.7	200/200	16	42	26	19	11	3	2	NEWDR/KCL/P
880401	2937	1.46	20	6	1	2	10	4.4	14.5	33000/33000	0.2	0.8	0.7	80/80	16	52	32	23	13	2	1	NEWDR/KCL/P
880402	2947	1.46	20	6	1	2	0.6	4.4	15	33000/33000	0.1	1	0.7	140/140	16	52	32	23	13	2	1	NEWDR/KCL/P
880403	2965	1.52	22	6	1	2	9.3	3.7	16	33000/33000	0.1	0.1	0.6	240/240	18	56	34	23	14	2	1	NEWDR/KCL/P
880404	2984	1.52	22	6	1	2	10	4	15	35000/35000	0.6	1.4	1	80/80	18	56	34	23	14	2	1	NEWDR/KCL/P
880405	3018	1.52	22	6	1	2	10	3.9	15	33000/33000	0.4	1	0.7	80/80	18	56	34	23	14	2	1	NEWDR/KCL/P
880406	3030	1.52	22	6	1	2	10	3.8	15	33000/33000	0.4	0.8	0.8	120/120	17	56	34	23	14	2	1	NEWDR/KCL/P

TABLE B-10 Daily Mud Properties

Daily mud properties

Date
8/7-1988

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System : Boredata Sandnes

Well: 6407/7-3
Mud Contractor: PROMUD
Data: "Mid depth" from table 3, otherwise from table 14

Norsk
Hydro

Date	Mid. depth m, MD	Mud dens. (SG)	PV cps	YP mPa	GEL 0 mPa	GEL 10 mPa	Ph	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity			Ca++ inn/out mg/l	O11 %	Sol %	H2O %	V.G 600 rpm	met 300 rpm	er 200 rpm	at 100 rpm	15 rpm	gr. 6 rpm	F 3 rpm	Mud type	
											Pf	Pm	Mf													
880407	3048	1.52	19	4	1	2	9.5	4.2	16	33000/33000	0.3	0.9	0.7	80/80		17		47	28	19	10	2	1	1	NEWDR/KCL/P	
880408	3071	1.52	21	5	1	2	9.5	3.7	15	33000/33000	0.3	1	0.6	100/100		16		52	31	21	12	2	1	1	NEWDR/PAC	
880409	3102	1.52	22	5	1	2	9.9	4	16	28000/28000	0.2	0.7	0.6	160/160		19		54	32	21	11	2	1	1	NEWDR/PAC	
880410	3162	1.52	23	6	1	2	9.8	3.5	16	33000/33000	0.1	1	0.6	80/80		17		58	35	24	13	2	1	1	NEWDR/PAC	
880411	3222	1.52	22	5	1	1	9.5	3.8	15	28000/0.00	0.2	0.9	0.9	240/0.00		20		55	33	20	13	4	2	1	NEWDR/PAC	
880412	3222	1.52	19	5	1	1	9.5	3.8	15	28000/0.00	0.2	0.9	0.9	240/0.00		20		48	29	20	12	3	1	1	NEWDR/PAC	
880412	3222	1.52	19	5	1	1	9.5	3.8	15	28000/0.00	0.2	0.9	0.9	240/0.00		20		48	29	20	12	3	1	1	NEWDR/PAC	
880413	3222	1.52	19	5	1	2	9.5	3.8	15	28000/0.00	0.2	0.9	0.9	240/0.00		20		48	29	20	12	4	2	1	NEWDR/PAC	
880414	3222	1.52	24	5	1	2	8.6	4.1	16	25000/0.00	0.2	0.8	0.7	200/0.00		20		59	35	21	12	4	2	1	NEWDR/PAC	
880415	3222	1.52	27	4	1	2	9	3.7	15	26000/0.00	0.2	0.8	0.7	160/0.00		20		63	36	26	15	4	2	1	NEWDR/PAC	
880416	3222	1.52	23	6	2	5	9	3.7	15	26000/0.00	0.2	0.8	0	160/0.00		20		58	35	26		3	1	1	NEWDR/PAC	
880417	3222	1.52	29	5	1	5	9.5	3.8	15	26000/0.00	0.1	0.6	0.6	160/0.00		20		69	40	30	18	4	2	1	NEWDR/PAC	
880418	3222	1.52	25	4	1	3	9.5	3.8	15	26000/26000	0.1	0.7	0.7	160/160		20		58	33	21	12	3	1	1	NEWDR/PAC	
880419	3222	1.56	24	5	1	5	9	3.8	15	25000/25000	0.1	0.5	0.6	200/200		21		58	34	25	14	3	2	1	NEWDR/PAC	
880420	3222	1.56	21	6	1	7	9.6	4.4		22000/22000	0.3	1.9	0.6	240/240		21		54	33					2	1	NEWDR/PAC
880421	3222	1.6	23	7	1	5	9.2	4.6		24000/24000	0.15	1	0.6	200/200		22		60	37	26	15	3	1	1	NEWDR/PAC	
880422	3222	1.6	24	5	1	5	10.5	4.6		24500/24500	0.2	2	0.9	320/320		22		59	35	24	14	4	2	1	NEWDR/PAC	
880423	3222	1.6	23	5	1	4	10.5	4.6		24000/24000	0.2	1.8	0.8	280/280		22		56	33	23	13	4	2	1	NEWDR/PAC	
880424	3222	1.6	25	5	1	7	10.5	5		24500/24500	0.2	2	0.9	320/320		22		60	35	24	14	4	2	1	NEWDR/PAC	
880425	3222	1.6	25	5	1	7	10.5	5	15	24000/24000	0.2	2	0.9	320/320		21		60	35	24	14	4	2	1	NEWDR/PAC	
880426	3222	1.6	23	4	1	3	11.2	6	15	24000/24000	0.1	1	0.4	320/320		21		54	31	20	12	2	1	1	NEWDR/PAC	
880427	3222	1.6	23	4	1	3	11.2	6	15	24000/24000	0.1	1	0.4	320/320		21		54	31	20	12	2	1	1	NEWDR/PAC	
880428	3222	1.6	23	4	1	3	11.2	6	15	24000/24000	0.1	1	0.4	320/320		21		54	31	20	12	2	1	1	NEWDR/PAC	
880429	3222	1.6	23	4	1	3	11.2	6	15	24000/24000	0.1	1	0.4	320/320		21		54	31	20	12	2	1	1	NEWDR/PAC	
880430	3222	1.6	22	5	1	3	11.1	6	15	24000/24000	0.1	0.4	0.5	400/400		21		54	32	20	12	2	1	1	NEWDR/PAC	
880501	3041	1.6	22	4	1	3	10.2	6	15	24000/24000	0.05	0.5	0.35	320/320		19		52	30	22	13	2	1	1	NEWDR/PAC	
880502	3041	1.6	21	4	1	3	10	7	17.4	23000/23000	0.05	0.5	0.4	320/320		20		50	29	20	11	2	1	1	NEWDR/PAC	
880503	3041	1.6	18	6	1	9	11.2	8.6	19.8	28000/28000	0.2	0.7	0.6	420/420		20		44	26	20	12	2	1	1	NEWDR/PAC	
880504	3041	1.6	18	6	1	3	11.8	8.2	19.2	28000/28000	1	1.8	1.5	540/540		20		42	27	20	12	2	1	1	NEWDR/PAC	
880505	3041	1.6	16	5	1	3	11.8	8.8	20	27000/27000	1	1.7	1.5	540/540		20		42	26	19	11	2	1	1	NEWDR/PAC	
880506	3041	1.6	16	6	2	12	11.8	9	20.2	27000/27000	1	2.1	1.5	520/520		20		44	28	20	12	2	1	1	NEWDR/PAC	
880507	3041	1.6	16	6	2	11	11.7	8.9	20	27000/27000	1	2	1.5	520/520		20		44	28	20	12	2	1	1	NEWDR/PAC	
880508	3041	1.6	18	6	1	11	11.3	8.6	19.6	27000/27000	0.3	1.9	0.7	520/520		20		58	40	24	15	2	1	1	NEWDR/PAC	
880509	3041	1.6	21	6	1	6	11.2	8.7	19.6	27000/27000	0.2	1.8	0.7	520/520		20		54	33	23	14	2	1	1	NEWDR/PAC	
880510	3041	1.6	19	6	1	12	11	9	20.2	26000/26000	0.2	1.6	0.6	480/480		20		49	30	21	13	2	1	1	NEWDR/PAC	
880511	2922	1.6	15	5	1	6	10.9	8.4	19.6	25000/25000	0.1	1.3	0.5	480/480		19		39	24	18	10	2	1	1	NEWDR/PAC	
880512	2922	1.6	15	5	1	6	10.9	8.2	19.8	26000/26000	0.1	1.2	0.5	480/480		19		40	25	18	10	2	1	1	NEWDR/PAC	
880513	2922	1.6	15	5	1	5	10.9	8.6	20	25000/25000	0.1	1.2	0.4	500/500		19		40	25	18	10	2	1	1	NEWDR/PAC	
880514	2922	1.6	15	6	1	5	10.9	8.8	21.1	25000/25000	0.1	1.1	0.4	520/520		19		44	26	18	11	2	1	1	NEWDR/PAC	
880515	2922	1.61	18	5	1	10	11.3	9.3	21.4	27000/27000	0.2	1.6	1	400/400		21		46	28	22	13	2	1	1	NEWDR/PAC	

((((ooo)	Daily mud properties	Date 8/7-1988
System : Boredata Sandnes		
Well: 6407/7-3		
Mud Contractor: PROMUD		
Data: "Mid depth" from table 3, otherwise from table 14		

Date	Mid. depth m, MD	Mud dens. (SG)	PV cps	YP mPa	GEL		Ph	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity			Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115				gr. F 6 3	Mud type	
					0 mPa	10 mPa					Pf	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm			
880516	2745	1.61	18	5	1	10	11.3	9.3	21.4	27000/27000	0.2	1.6	1	400/400		21		46	28	22	13	2	1	NEWDR/PAC
880517	480	1.61	18	5	1	10	11.3	9.3	21.4	27000/27000	0.2	1.6	1	400/400		21		46	28	22	13	2	1	NEWDR/PAC
880518	480	0	0	0																				NEWDR/PAC

Mud Consumption

Well: 6407/7-3

Mud Company: Promud

Hole size : 36"

Barite	(Mt)	67
Bentonite	(Mt)	13
Caustic Soda (NaOH)	(L)	80
Soda Ash	(Kg)	150

Hole size: 26"

Barite	(Mt)	249
Bentonite	(Mt)	23
Soda Ash	(Kg)	300
Caustic Soda (NaOH)	(L)	90

Hole size: 17 1/2"

Barite	(MT)	329
Bentonite	(Mt)	19
Caustic Soda (NaOH)	(Kg)	103
KCl	(Kg)	3900
KCl - brine	(m ³)	141
Soda Ash	(Kg)	760
Propol REG	(Kg)	2400
Propol SL	(Kg)	200
Milpolymer 302	(Kg)	125
Newdrill	(Kg)	2412

Hole size: 12 1/4"

Barite	(Mt)	628
Desco, chrome free	(Kg)	898
KCl	(Kg)	18335
KCl-brine	(m ³)	267
Milgard	(Kg)	750
NaOH	(L)	103
NaOH	(Kg)	50
Newdrill	(Kg)	2369
Propolymer REG	(Kg)	320
Propolymer SL	(Kg)	3795
Soda Ash	(Kg)	750

Hole size: 8 1/2"

Barite	(ME)	274
Bentonite	(Mt)	4
Bicarbonate	(Kg)	1659
NaOH	(Kg)	1100
Newdrill	(Kg)	1414
Propolymer REG	(Kg)	1275
Propolymer SL	(Kg)	1167
XC-polymer	(Kg)	20

Testing

Barite	(Mt)	81
Bentonite	(Mt)	5
Bicarbonate	(Kg)	200
Propolymer REG	(Kg)	70
Propolymer SL	(Kg)	100
XC-polymer	(Kg)	20
Zinc Carbonate	(Kg)	1500