

RFT RESULTS - PRESSURES
WELL: 34/8-3A

Run no/ Test no	Depth m RKB MD	Depth m RKB TVD	IHP Bar	FP Bar	FHP Bar	REMARKS
2A/1	3034.5	2903.4	453.47	431.01	453.33	Very good perm.
2A/2	3041.0	2909.6	454.16	431.21	453.20	Mod.- good perm.
2A/3	3045.5	2913.9	454.86	431.36	454.81	Moderate perm.
2A/4	3055.5	2923.6	456.23	431.65	455.89	Mod.- poor perm.
2A/5	3062.5	2930.0	457.04	431.96	457.21	Moderate perm.
2A/6	3072.4	2939.8	461.14	432.54	459.93	Good perm.
2A/7	3075.5	2942.8	459.62	432.72	458.75	Moderate perm.
2A/8	3082.1	2949.1	460.28	433.16	460.11	Poor perm.
2A/9	3091.5	2958.2	461.40	433.69	461.37	Good perm.
2A/10	3095.5	2962.0	462.23	433.95	462.98	Good perm.
2A/11	3098.8	2965.2	462.85	434.31	462.69	Very good perm.
2A/12	3098.8	2965.2	462.15	434.10	462.50	Mod.- poor perm.
2A/13	3101.5	2967.8	462.81	434.28	462.79	Very good perm.
2A/14	3103.3	2969.5	463.12	434.46	463.04	Moderate perm.
2A/15	3111.0	2976.9	463.98	435.17	464.18	Very good perm.
2A/16	3125.8	2991.2	466.31	436.57	466.19	Good perm.
2A/17	3136.8	3001.7	467.85	437.69	467.81	Good perm.
2A/18	3162.8	3026.7	471.15	440.50	471.65	Good perm.
2A/19	3093.0	2959.6	461.39	433.27	-	Sample *)
2B/1	3073.2	2940.6	458.70	432.51	-	Sample *)

All pressures from HP-gauge.

*) Not stabilized pretest. Not used in the RFT-interpretation.

Samples are taken in the Ness Fm.

Run	: 2A	2B
Chamber vol.gal.	: 2 3/4	2 3/4
Filling Time,min.	: 9	6
Shut in pressure, Bar(SG)/T°C	: 433.30/108	432.05/102
Chamber pressure,surface Bar/T°C	: 211/20	166/20
Gas volume SCF	: 37.9	13.5
Oil volume (litres)	: 7	2.6
Oil gravity (API)	: 40	40
Water/Filtrate (litres)	: -	-

Remarks: 1 gallon chamber sealed and shipped ashore for analysis.

WELL TEST RESULT

WELL: 34/8-3A

TEST No.	1A	1B	
PERFORATED INTERVAL	3087-3093m MD RKB	3071.6-3078.6m 3081.7-3093.0m MD RKB	
CHOKE SIZE (mm)	12.70	12.70	
OIL/COND. FLOW RATE (Sm ³ /D)	746	782	
GAS FLOW RATE (Sm ³ /D)	152640	155620	
GOR (Sm ³ /Sm ³)	205	199	
OIL/COND. GRAVITY (g/cc)	0.850	0.850	
GAS GRAVITY (air=1)	0.646	0.650	
FWHP (bar)	214.3	221.2	
SIWHP (bar)	247.8	247.8	
WHT (deg C)	70.3	72.6	
BHT (deg C)	108.7	109.6	
PHFP (bar)	408.6	416.8	
BHSIP (bar)	428.9	428.7	
BS&W (%)	Trace	0	
CO ₂ (%)	2.0	2.0	
H ₂ S (ppm)	1.0	1.2	
K (mD)	785	392	
S	+4.7	3.2	
Pi (bar)	429.3	429.3	
DEPTH OF BH MEASUREMENTS	3020.0m MD RKB	3020.0m MD RKB	

((((ooo)	Daily mud properties	Date 10/4-1989
	System : BORE	
Norsk Hydro	Well: 34/8-3A Mud Contractor: M-I NORGE A/S Data: "Mid depth" from table 3, otherwise from table 14.	14. 4

Date	Mid. depth m, MD	Mud Dens. (SG)	PV cp	YP Pa	GEL Pa	GEL Pa	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						Mud Type	
										Pf	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm		
880914	0	1.52	23	8	1	10	9.4	4.9	46000/46000	0.15	1.10	1.00				22	62	39	29	20	3	2	KCL	
880915	945	1.52	22	11	1	10	9.5	4.6	46000/46000	0.20	1.40	0.80				22	66	44	32	22	3	2	KCL	
880916	945	1.52	23	10	1	10	8.9	4.8	46000/46000	0.10	1.20	0.80				22	66	43	31	21	3	2	KCL	
880917	945	1.52	23	10	1	10	9.2	4.8	46000/46000	0.15	1.20	0.90				22	65	42	31	20	3	2	KCL	
880918	945	1.40	21	9	1	4	11.2	4.0	42000/42000	0.20	1.10	0.80				17	59	38	28	16	2	1	KCL	
880919	949	1.40	21	11	1	5	12.5	5.3	40000/40000	0.80	6.00	1.70				17	64	43	32	21	3	2	KCL	
880920	989	1.40	22	11					42000/42000							17								KCL
880921	1152	1.40	23	11	1	4	10.7	4.9	51000/51000	1.70	2.60	4.40				18	68	45	33	20	3	2	KCL	
880922	1475	1.40	24	10	1	4	10.6	4.9	50000/50000	1.10	2.40	3.20				18	68	44	32	20	2	1	KCL	
880923	1795	1.41	24	9	1	7	9.6	5.2	52000/52000	0.40	0.80	1.20				18	66	42	31	19	3	2	KCL	
880924	2045	1.40	24	8	1	6	9.2	5.2	55000/55000	0.20	0.70	1.00				19	64	40	29	19	3	2	KCL	
880925	2245	1.40	20	7	1	11	9.0	5.2	58000/58000	0.10	0.20	0.70				20	55	35	25	14	2	1	KCL	
880926	2390	1.50	24	8	3	19	8.8	5.0	60000/60000	0.10	0.10	0.70				25	65	41	30	20	6	4	KCL	
880927	2486	1.52	18	11	10	38	8.8	6.7	58000/58000	0.00	0.00	0.65				27	58	41	35	26	16	14	KCL	
880928	2486	1.52	20	12	11	45	8.8	8.3	58000/58000	0.00	0.00	0.65				28	64	44	38	29	20	18	KCL	
880929	2486	1.52	22	8	3	19	8.8	5.8	57000/57000	0.05	0.00	0.65				26	59	37	28	17	40	3	KCL	
880930	2486	1.52	24	7	3	20	8.7	6.0	57000/57000	0.00	0.00	0.75				25	62	38	29	19	7	6	KCL	
881001	2489	1.52	23	7	3	25	9.8	5.4	52000/56000	0.10	1.10	0.85				25	59	36	28	19	6	5	KCL	
881002	2591	1.52	23	8	3	32	8.9	6.0	52000/54000	0.08	0.50	0.90				25	62	39	31	20	7	6	KCL	
881003	2674	1.52	21	8	3	25	8.9	20.0	56000/54000	0.10	0.50	0.80				25	58	37	29	19	8	7	KCL	
881004	2771	1.52	21	8	2	25	8.9	6.2	56000/56000	0.10	0.30	0.80				23	58	37	29	19	7	5	KCL	
881005	2850	1.52	24	9	2	18	8.9	4.9	54000/56000	0.10	0.50	0.90				24	66	42	32	21	5	3	KCL	
881006	2954	1.55	22	8	1	19	8.8	4.4	58000/58000	0.05	0.03	1.10				25	60	38	28	18	4	3	KCL	
881007	3034	1.60	24	8	1	28	8.5	4.7	57000/57000		0.03	1.20				26	65	41	32	21	4	3	KCL	
881008	3034	1.60	22	8	1	23	9.0	4.4	57000/57000		0.35	1.50				26	60	38	29	19	4	3	KCL	
881009	3103	1.60	25	7	1	19	9.1	4.3	57000/57000	0.10	0.40	1.40				26	74	44	33	21	4	3	KCL	
881010	3131	1.60	24	8	2	12	8.8	4.2	57000/57000	0.01	0.30	2.00	480/480			26	63	39	29	18	3	2	KCL	
881011	3148	1.60	24	8	2	12	8.8	4.2	57000/57000	0.01	0.30	2.00	480/480			26	63	39	29	18	3	2	KCL	
881012	3230	1.60	26	9	2	20	8.8	4.3	57000/57000	0.10	0.30	2.10	480/480			26	69	43	33	21	5	4	KCL	
881013	3230	1.60	26	8	2	20	8.8	4.2	57000/57000	0.10	0.30	2.10	480/480			26	68	42	32	20	5	4	KCL	
881014	3230	1.60	26	8	2	20	8.8	4.2	57000/57000	0.10	0.30	2.10	480/480			26	68	42	32	20	5	4	KCL	
881015	3230	1.60	24	5	2	11	9.4	4.0	57000/57000	0.20	0.50	2.30				26	58	34	26	16	3	2	KCL	
881016	3175	1.70	26	12	2	20	10.8	4.2	57000/57000	0.50	2.00	2.70				29	85	49	37	23	4	3	KCL	
881017	3175	1.70	26	10	2	18	10.8	4.2	57000/57000	0.20	1.00	2.30				29	72	46	35	20	4	3	KCL	
881018	3177	1.70	29	7	1	10	10.4	3.9	57000/57000	0.40	1.80	2.50				30	71	42	32	18	3	2	KCL	
881019	3177	1.70	29	7	1	11	10.2	4.0	57000/57000	0.40	1.60	2.60				30	72	43	33	19	3	2	KCL	
881020	3177	1.70	28	7	1	10	10.2	4.1	57000/57000	0.40	1.60	2.50				30	69	41	31	18	3	2	KCL	
881021	3177	1.70	29	7	1	10	10.2	4.1	57000/57000	0.40	1.50	2.40				30	71	42	31	18	3	2	KCL	
881022	3177	1.70	27	6	1	9	10.2	3.9	57000/57000	0.40	1.60	2.50				30	66	39	29	17	3	2	KCL	

((((000)	Daily mud properties										Date
	System : BORE										10/4-1989
Norsk	Well: 34/8-3A										14.
Hydro	Mud Contractor: M-I NORGE A/S										
	Data: "Mid depth" from table 3, otherwise from table 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			Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F						Mud Type	
											Pf	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm		
881023	3177	1.70	27	6	1	9	10.2	3.9		57000/57000	0.40	1.60	2.50		30			66	39	29	17	3	2	KCL	
881024	3177	1.70	27	6	1	9	10.2	3.9		57000/57000	0.40	1.60	2.50		30	30	40	66	39	29	17	3	2	KCL	
881025	3177	1.70	28	6						57000/57000															KCL
881026	3177	1.71	30	7	1	9	10.2	3.9		56500/56500	0.60	2.10	2.90		30			74	44	32	19	3	2	KCL	
881027	3177	1.71	30	7	1	10	10.2	4.0		57000/57000	0.60	2.10	2.90		30			74	44	32	20	3	2	KCL	
881028	2246	1.50	15	5	1	13	8.9	7.6		53000/53000	0.10	0.50	1.40		22			40	25	18	12	3	2	KCL	
881029	800	1.50	15	5	1	13	10.0	7.6		53000/53000					22			40	25	18	12	3	2	KCL	

TABLE B-11

MUD MATERIAL CONSUMPTION

WELL 34/8-3A

MUD COMPANY: M-I NORGE A/S

Drilling of 12 1/4" hole

<u>Material</u>	<u>Actual used</u>
Barite	187 MT
Magcopol Reg	4653 KG
Magcopol LV	4134 KG
Poly Plus	394 KG
XC-Polymer	231 KG
KCl Powder	7521 KG
KCl Brine	236 KG
Sodium Bicarbonate	4763 KG
Gypsum	1911 KG
Bentonite	1 MT
Caustic Soda	25 KG
Desco	386 KG
Spersene	190 KG
Oilex	35 LTR
OS1-L	35 LTS
Conqor 404	55 LTR

Drilling of 8 1/2" hole

<u>Material</u>	<u>Actual used</u>
Barite	182 MT
Sodium Bicarbonate	584 KG
Magcopol Lovis	5583 KG
Desco	1151 KG
Brine	103 m ³
KCl Powder	1403 KG
Borrewell/Prothin	3224 KG
Resinex	2427 KG
XP-20	3106 KG
Caustic Soda	530 L
Magconol	400 L
Magcopol Reg	48 KG

Testing + plug and abandon

<u>Material</u>	<u>Actual used</u>
Barite	17 MT

1473d
sn, LHH/iø1