



RFT RESULTS - PRESSURES

WELL: 6407/7-4

All pressures from HP gauge.

Run no/ Test no	Depth m RKB MD	IHP Bar	FP Bar	FHP Bar	MOBILITY EST. (mD/cp)/Temp° C	
2A/1	2876	414.73	372.49	414.79		16.53 94
2A/2	2878	415.19	373.26	415.10	supercharged	3.80 94.73
2A/3	2883	415.87	373.24	415.81	supercharged	3.84 94.57
2A/4	2885	416.11	373.20	416.05		55.33 95.30
2A/5	2887	416.43	374.17	416.32	supercharged	3.30 95.70
2A/6	2890	416.83	373.93	416.73	supercharged	7.99 95.79
2A/7	2891.7	417.04	373.72	416.92		44.31 96.43
2A/8	2976.8	428.33	346.61	428.76		1.72 97.73
2A/9	2983	429.64	397.01	429.66		38.68 98.35
2A/10	2986.5	430.15	397.23	430.08		32.30 98.58
2A/11	3001.5	432.11	399.33	432.13	supercharged	0.95 99.1
2A/12	3005	432.67	398.43	432.62		51.43 99.6
2A/13	3023.5	435.05	399.62	435.26		228.00 100.4
2A/14	3029.8	436.20	400.00	435.77		61.95 100.9
2A/15	3037	437.15	400.42	437.16	Very Good	101.4
2A/16	3046	438.48	-	-	Tight	101.8
2A/17	3055.8	434.79	401.64	439.82		63.9 102.4
2A/18	3062.3	440.65	402.00	440.67		98.32 102.9
2A/19	3068	441.53	402.38	441.55	Very good	103.5
2A/20	3087	444.00	403.62	444.16		44.70 104.4
2A/21	3103	446.35	404.62	446.42		29.02 105.5
2A/22	3116.3	448.44	406.23	448.40		14.7 106.5
2A/23	3121	449.17	406.48	449.00		11.8 107.8
2A/24	3126.3	449.67	406.75	449.62		5.9 108.5
2A/25	3128	449.93	406.90	449.85		39.6 108.9
2A/26	3131	450.25	407.11	450.11		16.41 109.3
2A/27	3137	450.97	407.75	450.96		4.44 109.9
2A/28	3138	451.23	407.84	451.12		6.48 110.3
2A/29	3149	452.54	-	-	tight	110.6
2A/30	3150	452.74	407.68	452.68		8.7 111.1
2A/31	3152	452.99	407.79	452.93	poor	111.7
2A/32	3165	454.93	-	-	Seal failure	111.6
2A/33	3177.5	456.86	-	-	tight	112.8
2A/34	3181.2	457.51	-	-	tight	114
2A/35	3198.5	460.27	412.66	459.75		4.75 115.5
2A/36	3201	460.50	412.91	460.29		5.82 116.7

	Run 2A, 2885m	Run 2b 3037m
Run	Run 2A, 2885m	Run 2b 3037m
Chamber vol.(Gal)	2 3/4	2 3/4
Filling time (min)	24	14
Shut in pressure, Bar(HP) /T°C	372.20/95.3	400.42/103.5
Chamber pressure surface, Bar/T	20.0/15	160/15
Gas volume (SCF)	Tr	30
Oil volume (litres)	Tr	5
Oil gravity (API)	-	42.5
Water/filtrate (litres)	10.2	2

WELL TEST RESULT

WELL: 6407/7-4

TEST No.	1	2A	2B
PERFORATED INTERVAL	3126.0-3138.5 m MD RKB	2999.0-3008.0 m MD RKB	2999.0-3008.0 3028.0-3071.0 m MD RKB
CHOKE SIZE (mm)	11.11	7.94	12.7
OIL/COND. FLOW RATE (Sm ³ /D)	Q water:147	242	740
GAS FLOW RATE (Sm ³ /D)	424	46x10 ³	125x10 ³
GOR (Sm ³ /Sm ³)	GWR:2.9	185	169
OIL/COND. GRAVITY (g/cc)	WATER:1.041	0.83	0.84
GAS GRAVITY (air=1)	0.69	0.74	0.72
FWHP (bar)	7.7	156.6	185.5
SIWHP (bar)	N/A	191.1 *	N/A
WHT (deg C)	48.8	45.1	77.6
BHT (deg C)	118.5	114.9	117.1
BHFP (bar)	309.6	341.7	390.2
BHSIP (bar)	391.5	386.2	396.0
BS&W (%)	0	0	0
CO2 (%)	11 (gas phase)	2	2
H2S (ppm)	0.1	2	2
K (mD)	10	53	497
S	+1.2	-1.4	+0.3
Pi (bar)	400.7	395.3	398.4
DEPTH OF BH MEASUREMENTS	3065.7m MD RKB	2957.7m MD RKB	3005.7m MD RKB

* Surface shut in.

((((ooo) Norsk Hydro	Daily mud properties										Date 15/9-1989		
	System : BORE										14.		4
Well: 6407/7-4													
Mud Contractor: MI NORGE													
Data: "Mid depth" from table 3, otherwise from table 14.													

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	
											Wt	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm		
890113	366	1.05	10	35			10.5																	SPUD	
890114	390	1.05	10	35			10.5																		SPUD
890115	419	1.05	10	35			10.5																		SPUD
890116	440	1.05	10	35			10.5																		SPUD
890117	524	1.05	10	35			10.5																		SPUD
890118	538	1.05	10	35			10.5																		SPUD
890119	538	1.20	20	8	1	1	7.0	7.0		80000/80000			0.50		0	8	92	57	37	30	19	3	2	2	KCL
890120	938	1.22	14	7	1	2	7.4	6.8		64000/64000			0.50		0	8	92	42	28	19	10	2	1	1	KCL
890121	1115	1.20	10	7	1	2	8.0	7.8		63000/63000			0.70		0	12	88	34	24	16	10	2	1	1	KCL
890122	1115	1.23	11	7	1	2	8.7	6.1		60000/60000	0.40	0.60	2.30		0	13	87	36	25	17	10	2	1	1	KCL
890123	1570	1.60	26	8	3	15	8.6	6.4		53000/53000	0.10	0.40	1.00		0	24	76	68	42	30	19	5	4	1	KCL
890124	1959	1.60	19	8	5	32	8.5	6.8		63000/63000	0.10	0.20	0.80		0	27	73	53	34	26	19	11	10	10	KCL
890125	2197	1.60	18	5	3	18	8.5	9.6		73000/73000	0.10	0.10	1.60		0	25	75	46	28	20	13	6	5	5	KCL
890126	2273	1.60	17	6	3	19	8.4	8.9		77000/77000	0.35	0.01	1.50		0	24	76	45	28	20	14	5	4	4	KCL
890127	2293	1.60	25	9	4	29	8.4	8.0		80000/80000	0.05	0.01	1.50		0	25	75	78	43	31	21	13	12	12	KCL
890128	2330	1.60	26	7	4	26	8.4	6.3		78000/78000	0.10	0.01	1.80		0	26	74	66	40	30	20	10	9	9	KCL
890129	2330	1.60	25	7	4	25	8.4	6.3		78000/78000	0.10	0.01	1.80		0	26	74	64	39	30	20	10	9	9	KCL
890130	2330	1.60	25	7	4	33	8.4	6.3		78000/78000	0.10	0.01	1.80		0	26	74	64	39	30	20	10	9	9	KCL
890131	2333	1.60	23	6	4	21	8.2	6.4		77000/77000	0.10	0.01	1.50		0	26	74	58	35	27	18	6	5	5	KCL
890201	2387	1.60	23	6	4	18	8.3	6.4		75000/75000	0.10	0.01	1.50		0	26	74	58	35	26	16	4	3	3	KCL
890202	2399	1.60	23	6	2	18	8.3	5.9		73000/73000	0.10	0.01	1.40		0	25	75	58	35	26	17	4	3	3	KCL
890203	2399	1.60	21	5	2	17	8.2	6.2		73000/73000	0.10	0.01	1.50		0	25	75	52	31	21	13	3	2	2	KCL
890204	2399	1.60	21	5	2	17	8.2	6.2		73000/73000	0.10	0.01	1.50		0	25	75	52	31	21	13	3	2	2	KCL
890205	2399	1.60	21	5	2	17	8.2	6.2		73000/73000	0.10	0.01	1.50		0	25	75	52	31	21	13	3	2	2	KCL
890206	2404	1.60	22	5	2	13	8.3	5.6		76000/76000	0.10	0.01	1.40		0	25	75	53	31	22	13	3	2	2	KCL
890207	2404	1.60	22	5	2	12	8.3	5.8		78000/78000	0.10	0.01	1.50		0	25	75	53	31	22	13	3	2	2	KCL
890208	2481	1.60	18	6	1	10	8.9	5.5		74000/74000	0.10	0.01	1.40		0	25	75	48	30	24	14	3	2	2	KCL
890209	2580	1.60	24	9	2	21	8.4	5.8		72000/72000	0.10	0.01	1.50		0	25	75	66	42	33	22	5	5	5	KCL
890210	2645	1.60	20	8	2	25	8.6	6.0		75000/75000	0.10	0.01	1.50		0	25	75	56	36	28	19	6	5	5	KCL
890211	2703	1.60	21	10	8	35	8.6	6.0		75000/75000	0.10	0.01	1.30		0	25	75	63	42	34	25	15	15	15	KCL
890212	2775	1.60	19	8	4	30	8.4	6.0		80000/80000	0.01	0.01	1.50		0	25	75	54	35	28	21	6	6	6	KCL
890213	2808	1.60	18	5	3	23	8.2	6.0		84000/84000	0.01	0.01	1.50		0	25	75	45	27	22	14	5	4	4	KCL
890214	2808	1.60	19	9	5	28	8.2	6.2		82000/82000	0.01	0.01	1.50		0	25	75	56	37	30	24	14	11	11	KCL
890215	2808	1.60	19	9	5	28	8.2	6.2		82000/82000	0.01	0.01	1.50		0	25	75	56	37	30	24	14	11	11	KCL
890216	2808	1.60	19	9	5	28	8.2	6.2		82000/82000	0.01	0.01	1.50		0	25	75	56	37	30	24	14	11	11	KCL
890217	2808	1.60	19	9	5	28	8.2	6.2		82000/82000	0.01	0.01	1.50		0	25	75	56	37	30	24	14	11	11	KCL
890218	2808	1.60	19	9	5	28	8.2	6.2		82000/82000	0.01	0.01	1.50		0	24	76	56	37	30	24	14	11	11	KCL
890219	2808	1.60	19	9	5	28	8.2	6.2		82000/82000	0.01	0.01	1.50		0	24	76	56	37	30	24	14	11	11	KCL
890220	2808	1.60	19	9	5	28	8.2	6.2		82000/82000	0.01	0.01	1.50		0	24	76	56	37	30	24	14	11	11	KCL

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Daily mud properties

Date
15/9-1989

System : BORE

Well: 6407/7-4

Mud Contractor: MI NORGE

Data: "Mid depth" from table 3, otherwise from table 14.

Norsk
Hydro

14.

4

Date	Mid. depth m, MD	Mud Dens. (SG)	FV cp	YP Pa	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						Mud Type
					0 Pa	10 Pa					Pf	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	
890221	2808	1.60	19	9	5	27	8.2	6.2		82000/82000	0.01	0.01	1.50		0	24	76	56	37	30	24	13	10	KCL
890222	2808	1.60	19	9	5	27	8.2	6.2		82000/82000	0.01	0.01	1.50		0	24	76	56	37	30	24	13	10	KCL
890223	2808	1.47	12	5	2	15	9.4	8.8		60000/60000	0.05	0.60	1.00		0	20	80	34	22	17	11	3	2	KCL
890224	2877	1.47	26	7	2	14	9.5	4.6		55000/55000	0.05	0.90	0.80		0	20	80	66	40	30	18	3	2	KCL
890225	2920	1.47	27	6	1	11	9.2	4.1		52000/52000	0.01	0.70	0.80		0	20	80	66	39	29	18	4	3	KCL
890226	2974	1.47	29	7	1	13	9.6	4.1		51000/51000	0.01	0.80	1.10		0	20	80	73	44	33	20	4	3	KCL
890227	3010	1.47	27	7	1	10	9.6	3.8		50000/50000	0.01	0.80	1.10		0	20	80	68	41	30	19	4	3	KCL
890228	3040	1.47	31	8	2	14	9.5	3.6		53000/53000	0.01	0.70	1.40		0	20	80	78	47	35	21	4	3	KCL
890301	3068	1.47	28	7	1	10	9.5	4.2		50000/50000	0.01	0.40	1.40		0	19	81	70	42	31	20	4	3	KCL
890302	3101	1.47	28	7	1	8	9.2	4.0		48000/48000	0.01	0.40	1.30		0	19	81	71	43	31	20	3	2	KCL
890303	3129	1.47	25	7	1	8	9.2	3.7		47000/47000	0.01	0.20	1.20		0	19	81	64	39	29	18	3	2	KCL
890304	3182	1.47	25	7	1	9	9.2	3.8		45000/45000	0.01	0.30	1.30		0	19	81	69	42	32	19	3	2	KCL
890305	3211	1.47	26	6	1	8	9.2	4.0		43000/43000	0.01	0.30	1.30		0	19	81	64	38	30	18	3	2	KCL
890306	3211	1.47	26	6	1	8	9.2	4.0		43000/43000	0.01	0.30	1.30		0	19	81	64	38	30	18	3	2	KCL
890307	3211	1.47	24	5	1	6	9.0	4.4	14.8	39000/39000	0.01	0.10	1.30		0	19	81	58	34	28	17	3	2	KCL
890308	3171	1.47	27	8	2	11	11.2	4.8		40000/40000	0.01	0.70	2.90		0	19	81	70	43	32	20	3	2	KCL
890309	3171	1.47	19	6	2	12	11.2	6.4		52000/52000	0.30	2.00	1.30		0	19	81	49	30	22	14	4	3	KCL
890310	3171	1.47	20	6	2	12	10.9	6.8		51000/51000	0.30	2.00	1.30		0	19	81	51	31	22	15	4	3	KCL
890311	3171	1.47	20	6	2	12	10.9	6.8		51000/51000	0.30	2.00	1.30		0	19	81	51	31	22	15	4	3	KCL
890312	3171	1.47	21	7	2	13	9.8	6.8		50000/50000	0.20	1.70	1.20		0	19	81	56	35	23	13	4	3	KCL
890313	3171	1.47	20	7	3	13	9.8	7.4		51000/51000	0.20	1.70	1.20		0	19	81	53	33	22	14	4	3	KCL
890314	3171	1.47	20	7	3	13	9.8	7.4		51000/51000	0.20	1.70	1.20		0	19	81	53	33	22	14	4	3	KCL
890315	3171	1.47	20	7	3	13	9.8	7.4		51000/51000	0.20	1.70	1.20		0	19	81	53	33	22	14	4	3	KCL
890316	3171	1.47	20	7	3	13	9.8	7.4		57000/57000	0.20	1.70	1.20		0	19	81	56	32	22	14	4	3	KCL
890317	3171	1.47	21	7	3	15	9.5	8.0		57000/57000	0.20	1.70	1.20		0	19	81	56	32	22	14	4	3	KCL
890318	3121	1.47	21	7	3	15	9.5	8.0		51000/51000	0.20	1.70	1.20		0	19	81	56	32	22	14	4	3	KCL
890319	3121	1.47	20	5	2	13	11.0	8.0		51000/51000	0.60	4.00	1.40		0	19	81	50	30	19	14	3	2	KCL
890320	3121	1.47	20	5	2	13	11.0	8.0		50000/50000	0.60	4.00	1.40		0	19	81	50	30	19	14	3	2	KCL
890321	3121	1.47	20	5	2	13	11.0	8.0		50000/50000	0.60	4.00	1.40		0	19	81	50	30	19	14	3	2	KCL
890322	3121	1.47	20	5	2	13	11.0	8.0		50000/50000	0.60	4.00	1.40		0	19	81	50	30	19	14	3	2	KCL
890323	3121	1.47	20	5	2	13	11.0	8.0		50000/50000	0.60	4.00	1.40		0	19	81	50	30	19	14	3	2	KCL
890324	3121	1.47	20	5	2	13	11.0	8.0		50000/50000	0.60	4.00	1.40		0	19	81	50	30	19	14	3	2	KCL
890325	3121	1.47	19	4	2	12	11.0	8.0		49000/49000	0.60	4.00	1.40		0	19	81	46	27	17	11	3	2	KCL
890326	2949	1.47	19	4	2	12	11.0	8.0		50000/50000	0.60	3.80	1.50		0	19	81	46	27	17	11	3	2	KCL
890327	500	1.47	19	4	2	12	11.0	8.0		50000/50000	0.60	3.80	1.50		0	19	81	46	27	17	11	3	2	KCL

TABLE B-11: MUD MATERIAL CONSUMPTION

((((ooo)	M u d c o n s u m p t i o n	Date 15/9-1989
Norsk Hydro	System : BORE Well: 6407/7-4 Mud company: MI NORGE	13
		Actual used
	Drilling of 36 " hole	

	BARITE Kg	57000
	BENTONITE Kg	42000
	CAUSTIC SODA l	290
	Drilling of 26 " hole	

	BENTONITE Kg	3000
	CAUSTIC SODA l	40
	Drilling of 17 1/2" hole	

	BARITE Kg	47000
	KCL POWDER Kg	10591
	MAGCOPOL LV Kg	2730
	MAGCOPOL REG Kg	3455
	KCL BRINE l	318000
	Drilling of 12 1/4" hole	

	BARITE Kg	534000
	KCL POWDER Kg	24465
	MAGCOPOL LV Kg	11565
	MAGCOPOL REG Kg	3299
	POLY PLUS Kg	497
	SODIUM BICARB Kg	4132
	CAUSTIC SODA l	300
	CONCQR 404 l	48
	KCL BRINE l	336000
	MAGCONOL l	20
	Drilling of 8 1/2" hole	

	BARITE Kg	50000
	GYPSYM Kg	495
	MAGCOPOL LV Kg	4552
	MAGCOPOL REG Kg	342
	SODIUM BICARB Kg	1878
	Test no. 2	

	BARITE Kg	8000
	OILEX l	210

((((ooo)	M u d c o n s u m p t i o n	Date 15/9-1989
Norsk Hydro	Well: 6407/7-4 Mud company: MI NORGE	13

Actual
used

Test no. 1

BARITE	Kg	47000
BENTONITE	Kg	2000
MAGCOPOL REG	Kg	969
SODIUM BICARB	Kg	3345
CONQOR 404	l	315
OS-1-L	l	210