

FMT DATA FROM WELL 6507/8-4

NR.	DEPTH MRKB	DEPTH mMSL/TVD	HP kPa	STR kPa	
1	2125.5	2102.5	22904	23135	good
2	2129.5	2106.5	22911	23128	good
3	2132.0	2109.0	22912	23108	good
4	2134.5	2111.5	22915	23094	good
5	2138.0	2115.0	22922	23101	good
6	2143.0	2120.0	23001	23163	med.
7	2147.0	2124.0	22972	23142	med.
8	2151.0	2128.0	23019	23177	med.
9	2156.0	2133.0	23049	23204	med.
10	2159.5	2136.5	23090	23259	med.
11	2164.6	2141.5	23130	23280	med.
12	2166.1	2143.0	23111	23280	med.
13	2167.6	2144.5	23125	23294	med.
14	2168.9	2146.0	23131	23308	med.
15	2200.9	2178.0	23217	23397	good
16	2215.4	2192.5	23158	23342	low
17	2216.9	2194.0	23141	23328	med.
18	2246.5	2223.5	23477	23639	med.
19	2250.5	2227.5	23197	23370	v. low
20	2252.0	2229.0	0	23528	r. f
21	2253.5	2230.5	23219	23370	good
22	2262.0	2239.0	23317	23480	good
23	2265.0	2242.0	23335	23515	med.
24	2266.9	2244.0	23354	23528	med.
25	2271.0	2248.0	23423	23597	med.
26	2275.0	2252.0	23447	23625	med.
27	2278.0	2255.0	23480	23659	med.
28	2286.4	2263.5	23603	23790	good
29	2295.4	2272.5	23657	23825	med.
30	2297.0	2274.0	23647	23825	med.
31	2298.5	2275.5	23684	23859	plug.
32	2134.5	2111.5	22915	23163	
33	2147.1	2124.0	22958	23170	
34	2158.5	2135.5	23046	0	
35	2133.7	2110.7	22911	0	
36	2169.5	2146.5	0	24556	
37	2201.0	2178.0	23212	23349	
38	2215.0	2192.0	23124	23266	
39	2216.0	2193.0	23137	23280	
40	2246.5	2223.5	23184	23315	
41	2146.0	2123.0	22949		
42	2146.5	2123.5	22964		
43	2145.5	2122.5	22063		

Table 3.2.1

Temperature Data

The reservoir temperature was measured during drilling, logging and production testing. The production testing data was found to be superior with accuracy of +/- 1 deg C.

The reservoir temperature was measured to 76.5 deg. C at 2210 mRKB giving a linear gradient to seabed at 6 deg C of 38.9 deg C/1000 meters (See figure 3.3.1).

3.4

Test Results

The main production testing data is presented in table 3.4.1.

The first test produced formation water and a chloride content of 29918 mg/litre was measured in the lab. (Wquivalent NaCl salinity was calculated to approx. 50000 ppm).

The second and third tests produced oil of approximately same surface density and GOR (see table 3.4.1).

The fourth test produced lean gas.

All production tests produced reservoir sand, filling up the separator several times.

WELL 6507/8-4
PRODUCTION TEST SUMMARY

TEST/ FLOW NO	FORMATION	PERFORMED	DUR.	CHOKE	GAS	OIL/ COND.	WATER	GOR	OIL/ COND.	GAS.	WELL	BOTTOM	WELL	BOTTOM
		INTERVAL	HRS.	MAX.	RATE	RATE	RATE	SM ³ /SM ³	COND.	GRAV.	HEAD	HOLE	HEAD	HOLE
		MRKB		1/64"	SM ³ /D	SM ³ /D	(BSW) %		KG/M ³	AIR=1	PRESS. KPA	PRESS. KPA	TEMP. C°	TEMP. C°
4.1	ARE	2126-35	18.0	40/64	756777	16.1	0 TR-S	47078	780	0.648	16810	22410	22.0	73.8
3.1	ARE	2150-61.5	22.0	56/64	70100	1480	TR-S	61	904	0.635	5270	21570	41.8	75.0
3.2		2163.5-68	24.3	40/64	45300	986	TR-S	56	904	0.635	6430	21820	30.8	75.5
2.1	ARE	2200-02	20.7	48/64	58700	1023.8	TR-S	59	905	0.644	5550	21573	35.7	76.0
2.2		2204-08.5 2212-21	12.0	52/64	60900	1395.3	TR-S	51	904	0.642	5270	21295	41.8	76.0
1.1	ARE	2250-54	6.3	32/64			8 M3				0	22071	10.9	74.9
1.2			4.0	16/64			14 M3 TR-S				0	22210	13.6	75.7

Table 3.4.1



TOTAL MATERIALS

Well: 6507/8-4 Operator: Statoil
Casing: From/to: 0,0 m 0,0 m
Bit: From/to: 376,0 m 2560,0 m

Quantity:	Material:	Units:	Unit Price:	Total Cost NOK:
84	Bentonite	mt	2 150,00	180 600,00
88	Caustic Soda	25 kg	122,00	10 736,00
7	Prodefoamer	25 l	640,00	4 480,00
671	Barite	ton	630,00	422 730,00
347	Prothin	25 kg	115,00	39 905,00
424	Prolignite Caus.	25 kg	115,00	48 760,00
297	CMC LV	50 lb	320,00	95 040,00
13	Soda Ash	25 kg	110,00	1 430,00
49	Bicarbonate Sod.	25 kg	110,00	5 390,00
120	Propol SL	25 kg	485,00	58 200,00
15	Propol reg	25 kg	485,00	7 275,00
19	Probio II	25 l	485,00	9 215,00
46	Gypsum	40 kg	62,00	2 852,00
313	CMC EHV	25 kg	320,00	100 160,00
	VOLUME	m3		2557,00
Total Cost for Well:				986 773,00
Cost per meter:				451,82
Drilling days: 58	Cost per m3:			385,91



CASING INTERVAL

Well: 6507/8-4 Operator: Statoil
Casing: 30" From/to: 376,0 m 437,0 m
Bit: 36" From/to: 376,0 m 437,0 m

Quantity:	Material:	Units:	Unit Price:	Total Cost NOK:
29	Barite	1ton	630,00	18 270,00
5	NaOH	25kg	122,00	610,00
5	Soda Ash	25kg	110,00	550,00
19	Wyoming bentonite	1ton	2150,00	40 850,00
VOLUME m3				260,00
Total Cost for Interval:				60 280,00
Cost per meter				988,20
Drilling days: 2	Cost per m3:			231,85



CASING INTERVAL

Well: 6507/8-4 Operator: Statoil
Casing: 20" From/to: 376,0 m 565,0 m
Bit: 26" From/to: 437,0 m 573,0 m

Quantity:	Material:	Units:	Unit Price:	Total Cost NOK:
149	Barite	1ton	630,00	93 870,00
152	CMC EHV	25kg	320,00	48 640,00
3	Probio II	25l	485,00	1 455,00
VOLUME m3				490,00
Total Cost for Interval:				143 965,00
Cost per meter				1 058,57
Drilling days: 4	Cost per m3:			293,81



CASING INTERVAL

Well: 6507/8-4 Operator: Statoil
Casing: 13 3/8" From/to: 376,0 m 1534,0 m
Bit: 17 1/2" From/to: 573,0 m 1555,0 m

Quantity:	Material:	Units:	Unit Price:	Total Cost NOK:
26	Barite	1ton	630,00	16 380,00
161	CMC EHV	25kg	320,00	51 520,00
281	CMC L	25kg	320,00	89 920,00
12	Probio II	25l	485,00	5 820,00

VOLUME m3 872,00

Total Cost for Interval: 163 640,00

Cost per meter 166,64

Drilling days: 7 Cost per m3: 187,66



CASING INTERVAL

Well: 6507/8-4 **Operator:** Statoil
Casing: 9 5/8" **From/to:** 376,0 m 2084,0 m
Bit: 12 1/4" **From/to:** 1555,0 m 2100,0 m

Quantity:	Material:	Units:	Unit Price:	Total Cost NOK:
215	Barite	1ton	630,00	135 450,00
46	Gypsum	40kg	62,00	2 852,00
4	Probio II	25l	485,00	1 940,00
14	Propol Reg	25kg	485,00	6 790,00
120	Propol Superlo	25kg	485,00	58 200,00
15	Sodium Bicarbonate	25kg	110,00	1 650,00
VOLUME m3				80,00
Total Cost for Interval:				206 882,00
Cost per meter				379,60
Drilling days: 7	Cost per m3:			2 586,03



CASING INTERVAL

Well: 6507/8-4 Operator: Statoil
 Liner: 7" From/to: 1934,0 m 2546,0 m
 Bit: 8 1/2" From/to: 2100,0 m 2560,0 m

Quantity:	Material:	Units:	Unit Price:	Total Cost NOK:
252	Barite	1ton	630,00	158 760,00
16	CMCL	25kg	320,00	5 120,00
83	NaOH	25kg	122,00	10 126,00
7	Prodefoam	25l	640,00	4 480,00
424	Prolignite	25kg	115,00	48 760,00
1	Propol Reg	25kg	485,00	485,00
347	Prothin	25kg	115,00	39 905,00
8	Soda Ash	25kg	110,00	880,00
34	Sodium Bicarbonate	25kg	110,00	3 740,00
65	Whyoming bentonite	1ton	2150,00	139 750,00
	VOLUME	m3		855,00
Total Cost for Interval:				412 006,00
Cost per meter				895,67
Drilling and Testing days 36	Cost per m3:			481,88