

MOBIL EXPLORATION NORWAY INC.

WELL 35/11-4

FMT RESULTS

DATE/ RUN No. TEST No.	DEPTH(mRKB)		HYDSTAT MUD PRESSURE psia	FM. PRESSURE (HP GAUGE)		TEMP. °C	REMARKS
	MEASURED	TVD		psia	Mpa		
24 OCT 90							
RUN 1A							
1	1650.0	1650.0	2931.7	2476.2	17.073	45.3	GOOD PERMEABILITY
2	1655.0	1655.0	2940.2	2483.1	17.121	45.8	GOOD PERMEABILITY
3	1670.0	1670.0	2966.3	2505.1	17.273	46.3	Low drawdown pressure
4	1669.5	1669.5	2965.3	2503.9	17.264	46.6	GOOD PERMEABILITY
5	1690.0	1690.0	3001.4	2533.1	17.465	46.9	GOOD PERMEABILITY
6	1846.0	1846.0	3275.0	2751.0	18.968	48.9	SLOW BUILD-UP
7	1876.0	1876.0	3328.0			50.0	TIGHT
8	1875.5	1875.5	3326.8			50.1	TIGHT
9	1985.0	1985.0	3518.6	2926.5	20.178	PROBLEM	GOOD PERMEABILITY
10	1990.0	1990.0	3527.3	2926.1	20.175	WITH	GOOD PERMEABILITY
11	1994.0	1994.0	3533.5	2926.3	20.177	PROBE	GOOD PERMEABILITY
12	1997.0	1997.0	3538.6	2927.2	20.183	TEMP.	GOOD PERMEABILITY
13	2006.0	2006.0	3555.3	2937.2	20.252		GOOD PERMEABILITY
14	2011.0	2011.0	3563.6	2944.9	20.305		GOOD PERMEABILITY
15	2031.5	2031.5					Unable to pass 2038m with bottom of tool
16	1992.0	1992.0	3529.8	2926.1	20.176		GOOD PERMEABILITY
17	1995.0	1995.0	3535.1	2926.6	20.179		GOOD PERMEABILITY
18	1995.5	1995.5	3535.8	2926.5	20.178		SLOW BUILD-UP
19	1994.5	1994.5	3533.9	2925.8	20.173		SLOW BUILD-UP
20	1998.5	1998.5	3540.6	2934.7	20.235		SLOW BUILD-UP
21	1995.0	1995.0	3534.6	2926.5	20.178		SEGREGATED SAMPLE

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FMT RESULTS (Continued)

DATE/ RUN No. TEST No.	DEPTH(mRKB)		HYDSTAT MUD PRESSURE psia	FM. PRESSURE (HP GAUGE)		TEMP. °C	REMARKS
	MEASURED	TVD		psia	Mpa		
21 DEC 90 RUN 2B							
1	1986.5	1985.6	3606.0	2922.9	20.153	66.2	GOOD PERMEABILITY
2	1989.0	1988.1	3611.5	2923.3	20.156	67.0	GOOD PERMEABILITY
3	1993.0	1992.1	3618.6	2925.9		67.4	TIGHT
4	1994.0	1993.1	3620.8	2925.6	20.174	67.7	GOOD PERMEABILITY
5	1995.0	1994.1	3622.8		20.172	67.9	GOOD PERMEABILITY
6	1997.0	1996.1	3626.8			68.0	TIGHT
7	1996.0	1995.1	3625.2				TIGHT
8	2006.5	2005.6	3643.2	2934.9	20.236	68.2	GOOD PERMEABILITY
9	2008.0	2007.0	3645.5	2937.1	20.251	68.5	GOOD PERMEABILITY
10	2010.0	2009.0	3650.6	2939.9	20.271	69.1	GOOD PERMEABILITY
11	2011.5	2010.5	3653.5	2942.2	20.287	69.3	GOOD PERMEABILITY
12	2013.0	2012.0	3655.9	2944.5	20.302	69.5	GOOD PERMEABILITY
13	2019.0	2018.0	3666.7	2953.1	20.362	69.6	GOOD PERMEABILITY
14	2022.0	2021.0	3671.6	2957.6	20.393	69.8	GOOD PERMEABILITY
15	2035.0	2034.0	3694.6	2983.0	20.568	70.2	GOOD PERMEABILITY
16	2040.0	2039.0	3703.3	2988.0	20.602	70.6	GOOD PERMEABILITY
17	2037.5	2036.5	3700.7	2985.7	20.586	70.9	GOOD PERMEABILITY
18	2046.5	2045.5	3716.5	2995.0	20.651	70.9	GOOD PERMEABILITY
19	2050.0	2049.0	3722.7	2998.8	20.670	70.9	GOOD PERMEABILITY
20	2053.0	2052.0	3728.0	3002.6	20.702	70.8	GOOD PERMEABILITY
21	2060.0	2059.0	3740.5	3012.7	20.772	70.8	GOOD PERMEABILITY
22	2063.0	2062.0	3748.8	3017.0	20.802	70.9	GOOD PERMEABILITY
23	2066.5	2065.5	3752.0	3022.0	20.837	Recalibrate	GOOD PERMEABILITY
24	2075.0	2074.0	3766.8	3034.3	20.922	probe	GOOD PERMEABILITY
25	2083.0	2082.0	3783.0	3045.6	20.999	temp.	GOOD PERMEABILITY

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FMT RESULTS (Continued)

DATE/ RUN No. TEST No.	DEPTH(mRKB)		HYDSTAT MUD PRESSURE psia	FM. PRESSURE (HP GAUGE)		TEMP. °C	REMARKS
	MEASURED	TVD		psia	Mpa		
21 DEC 90 RUN 2B							
26	2285.0	2283.8	4144.9	3347.8	23.083	75.8	GOOD PERMEABILITY
27	2288.0	2286.8	4150.7	3351.0	23.105	76.1	GOOD PERMEABILITY
28	2291.0	2289.8	4156.1	3354.2	23.127	76.3	GOOD PERMEABILITY
29	2300.0	2298.8	4171.6				NO SEAL
30	2295.0	2293.8	4162.5			76.9	TIGHT, ABANDON TEST
31	2303.0	2301.8	4176.3				NO SEAL
32	2297.5	2295.0	4168.4			77.2	TIGHT, ABANDON TEST
33	2305.0	2303.8	4182.2			77.7	No seal at first, tight on retry
34	2310.0	2308.8	4190.8			77.8	TIGHT
35	2313.0	2311.8	4196.4	3378.8	23.297	78.0	GOOD PERMEABILITY
36	2317.0	2315.8	4204.1	3384.6	23.337	78.2	GOOD PERMEABILITY
37	2321.0	2319.8	4210.8	3390.8	23.379	78.4	GOOD PERMEABILITY
38	2325.0	2323.8	4217.6	3396.6	23.420	78.4	GOOD PERMEABILITY
39	2330.0	2328.8	4226.7	3403.7	23.469	78.5	GOOD PERMEABILITY
40	2338.0	2336.8	4240.6	3415.2	23.548	78.5	GOOD PERMEABILITY
41	2342.0	2340.8	4247.9	3421.1	23.589	78.7	GOOD PERMEABILITY
42	2354.0	2352.8	4269.4	3438.7	23.710	78.8	GOOD PERMEABILITY
43	2362.0	2360.8	4283.3	3449.7	23.786	79.0	GOOD PERMEABILITY
44	2628.5	2627.2	4762.8	3908.1	26.946	83.2	GOOD PERMEABILITY
45	2631.0	2629.7	4766.2	3909.9	26.959	83.8	GOOD PERMEABILITY
46	2634.0	2632.7	4770.8	3909.4	26.955	84.5	GOOD PERMEABILITY
47	2635.5	2634.2	4773.8	3910.6	26.964	85.4	GOOD PERMEABILITY
48	2640.5	2639.2	4782.0	3912.4	26.976	85.9	GOOD PERMEABILITY
49	2646.0	2644.7	4792.0	3914.3	26.989	86.2	GOOD PERMEABILITY
50	2657.0	2655.7	4812.8	3919.2	27.023	86.7	GOOD PERMEABILITY

MOBIL EXPLORATION NORWAY INC.

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FMT RESULTS (Continued)

DATE/ RUN No. TEST No.	DEPTH(mRKB)		HYDSTAT MUD PRESSURE psia	FM. PRESSURE (HP GAUGE)		TEMP. °C	REMARKS
	MEASURED	TVD		psia	Mpa		
21 DEC 90 RUN 2B (CONT)							
51	2658.5	2657.2	4815.5	3920.2	27.030	87.0	GOOD PERMEABILITY
52	2660.0	2658.7	4819.4	3920.5	27.031	87.0	GOOD PERMEABILITY
53	2664.0	2662.7	4825.8	3921.8	27.041	86.8	GOOD PERMEABILITY
54	2670.5	2669.2	4837.0	3924.7	27.061	86.7	GOOD PERMEABILITY
55	2678.0	2676.7	4850.1	3931.4	27.107	86.9	GOOD PERMEABILITY
56	2683.0	2681.7	4859.0	3934.9	27.131	87.0	GOOD PERMEABILITY
57	2668.0	2666.7	4833.0	3922.9	27.048	87.1	GOOD PERMEABILITY
58	2687.0	2685.7	4866.8	3940.8	27.172	87.1	GOOD PERMEABILITY
59	2690.0	2688.7	4871.5	3941.6	27.177	87.4	GOOD PERMEABILITY
60	2694.5	2693.2	4878.0	3948.0	27.222	88.0	GOOD PERMEABILITY
61	2700.0	2698.7	4888.0	3956.0	27.277	88.2	GOOD PERMEABILITY
62	2705.0	2703.7	4896.3	3966.5	27.349	88.5	GOOD PERMEABILITY
63	2710.0	2708.7	4905.6	3970.2	27.375	88.5	GOOD PERMEABILITY
64	2719.0	2717.7	4922.9	3982.6	27.460	88.7	GOOD PERMEABILITY
65	2730.0	2728.7	4941.9	3998.7	27.571	89.0	GOOD PERMEABILITY
66	2734.5	2733.2	4950.1	4004.7	27.612	89.4	GOOD PERMEABILITY
67	2760.0	2758.7	4996.5	4042.3	27.872	90.1	GOOD PERMEABILITY
68	2805.0	2803.7	5076.9	4107.3	28.320	90.8	GOOD PERMEABILITY
69	2874.0	2872.7	5201.5	4208.2	29.155	91.9	GOOD PERMEABILITY
70	2956.0	2954.6	5349.0	4330.7	29.860	92.9	GOOD PERMEABILITY
71	3025.0	3023.6	5475.0			94.0	TIGHT
72	3056.0	3054.5	5530.6	4490.8	30.964	94.6	GOOD PERMEABILITY
73	3085.0	3083.5	5584.6	4529.7	31.232	95.7	GOOD PERMEABILITY
74	3090.0	3088.5	5592.7	4535.9	31.275	96.6	GOOD PERMEABILITY
75	3093.0	3091.5	5598.9	4541.8	31.316	97.4	GOOD PERMEABILITY

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FMT RESULTS (Continued)

DATE/ RUN No. TEST No.	DEPTH(mRKB)		HYDSTAT MUD PRESSURE psia	FM. PRESSURE (HP GAUGE)		TEMP. °C	REMARKS
	MEASURED	TVD		psia	Mpa		
21 DEC 90 RUN 2B (CONT)							
76	3095.0	3093.5	5601.9	4545.0	31.338	98.0	GOOD PERMEABILITY
77	2675.5	2674.2	4852.8	3935.5	27.135	86.8	TOOL POSSIBLY NOT STABILIZED
78	2678.0	2676.7	4853.0	3934.0	27.125	86.8	SEGREGATED SAMPLE
22 DEC 90 RUN 2C							
1	1998.0	1997.1	3626.8	2926.1	20.176	68.4	GOOD PERMEABILITY
2	2000.0	1999.1	3630.6	2927.1	20.182	69.3	GOOD PERMEABILITY
3	2004.5	2003.6	3638.7	2933.5	20.227	70.2	LOW PERMEABILITY
4	2634.5	2633.2	4765.1	3905.7	26.930	84.7	SEGREGATED SAMPLE
22 DEC 90 RUN 2D							
1	2290.0	2288.2	4145.9	3349.3	23.093	75.5	SEGREGATED SAMPLE
22 DEC 90 RUN 2E							
1	2038.0	2037.0	3693.9	2984.1	20.575	72.8	SEGREGATED SAMPLE
22 DEC 90 RUN 2F							
1	2000.0	1991.1	3628.8	2926.0	20.175	70.2	SEGREGATED SAMPLE

MOBIL EXPLORATION NORWAY INC.

REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-4

FIELD: Wildcat

LOCATION: North Sea

RIG: Yatzy

DATE: 21 December 1990

LOGGING Co: Atlas Wireline

RUN No: 2B

GAUGE: HP

GEOLOGIST: Lochtie/Smith MUD TYPE: KCL polymer

MUD DENSITY: 10.6

HOLE SIZE: 12.25

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	REMARKS	ESTIMATED m TVD	
73	3085.0	P	5582.2	1958	4529.7	2003	5584.6	GOOD	DRAWDOWN 3850 - mD	3083.5	
74	3090.0	P	5592.5	2010	4535.9	2013	5592.7	GOOD	DRAWDOWN 5870 - 3 mD	3088.5	
75	3093.0	P	5597.8	2020	4541.8	2024	5598.9	GOOD	DRAWDOWN 3560 - 1 mD	3091.5	
76	3095.0	P	5601.4	2031	4545.0	2035	5601.9	GOOD	DRAWDOWN 2805 - 0.78mD	3093.5	
77	2675.5	P	4846.8	2057	3935.5	2104	4852.8		POSS NOT STABILISED TEMP	2674.2	
78	2678.0	S (#1)	4853.0	2134	3934.0	2155	4853.0	GOOD	DRAWDOWN 3884 - Temp 86.8C	2676.7	
				2137	TAKE SAMPLE IN TOP CHAMBER - BUILD UP PRESSURE 3932.1 3 MIN TO FILL - CLEAN UP FOR 5 MIN						
				2148	TAKE SAMPLE IN PVT CHAMBER - BUILD UP PRESSURE 3932.6 1 MIN TO FILL - CLEAN UP FOR 5 MIN						
				<u>SAMPLE RECOVERED AT RIG FLOOR</u>							
				PRESSURE IN CHAMBER AT SURFACE - 1700 PSI							
				SAMPLE CONTAINED - 10 CUBIC FOOT GAS							
				1900cc OIL/?CONDENSATE				CHLORIDES 25000 mg/l			
				6300cc WATER/FILTRATE				CHLORIDES 78000 mg/l			
				GAS ANALYSIS THROUGH GEODATA CHROMATOGRAPH - C1 : OFF SCALE nC4 : 1936 ppm							
									C2 : 32079 ppm		C5 : 667
									C3 : 9393 ppm		C6 : TR
									iC4 : 2222 ppm		

NOTES:

REFERENCE LOG: Run 2B ZDL-CNL-GR

CONVERSION CONSTANTS: MPa = PSI * 0.006895

PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC.

REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-4

FIELD: Wildcat

LOCATION: North Sea

RIG: Yatzy

DATE: 22 December 1990

LOGGING Co: Atlas Wireline

RUN No: 2C

GAUGE: HP

GEOLOGIST: Lochtie/Smith MUD TYPE: KCL polymer

MUD DENSITY: 10.6

HOLE SIZE: 12.25

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	REMARKS	ESTIMATED m TVD
1	1998.0	P	3626.8	0130	2926.1	0137	3626.8		2905 mD	1997.1
2	2000.0	P	3630.4	0143	2927.1	0146	3630.6		290 mD	1999.1
3	2004.5	P	3637.8	0154	2933.5	0157	3638.7		1 mD	2003.6
4	2634.5	S (#2)	4763.5	0230	3905.7	0243	4765.1			2633.2
				0238	2 3/4 gallon flow, not allowed to build up					
				0240	1 Gallon segregated sample, build up terminated at 3904.2 psi					
					<u>SAMPLE RECOVERED AT RIG FLOOR</u>					
					PRESSURE IN CHAMBER AT SURFACE - 2100 PSI					
					SAMPLE CONTAINED - 45 cft GAS					
					0 cc OIL/CONDENSATE					
					1500 cc WATER/FILTRATE					
					GAS ANALYSIS THROUGH GEODATA CHROMATOGRAPH - C1 : 48761 ppm					nC4 : 903 ppm
					C2 : 6264 ppm					C5 : -
					C3 : 4848 ppm					C6 : -
					iC4 : 555 ppm					

NOTES:

REFERENCE LOG: Run 2B ZDL-CNL-GR

CONVERSION CONSTANTS: MPa = PSI * 0.006895

PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC.

REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-4 FIELD: Wildcat LOCATION: North Sea RIG: Yatzy
 DATE: 22 December 1990 LOGGING Co: Atlas Wireline RUN No: 2D GAUGE: HP
 GEOLOGIST: Lochtie/Smith MUD TYPE: KCL polymer MUD DENSITY: 10.6 HOLE SIZE: 12.25

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	REMARKS	ESTIMATED m TVD
1	2290.0	S (#3)	4145.7	0550	3349.3	0555	4145.9			2288.2
				0551	2 3/4 gallon flow, not allowed to build up					
				0554	1 Gallon segregated sample, build up terminated at 3346 psi					
				<u>SAMPLE RECOVERED AT RIG FLOOR</u>						
				PRESSURE IN CHAMBER AT SURFACE - 1700 PSI						
				SAMPLE CONTAINED - 9 cft GAS						
				3500 cc OIL/CONDENSATE						
				5000 cc WATER/FILTRATE						
				GAS ANALYSIS THROUGH GEODATA CHROMATOGRAPH - C1 : +700000 ppm nC4 : 1626 ppm						
				C2 : 58874 ppm C5 : 6000 ppm						
				C3 : 52116 ppm C6 : -						
				iC4 : 7778 ppm						

NOTES:

REFERENCE LOG: Run 2B ZDL-CNL-GR CONVERSION CONSTANTS: MPa = PSI * 0.006895 PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC.

REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-4

FIELD: Wildcat

LOCATION: North Sea

RIG: Yatzy

DATE: 22 December 1990

LOGGING Co: Atlas Wireline

RUN No: 2E

GAUGE: HP

GEOLOGIST: Lochtie/Smith MUD TYPE: KCL polymer

MUD DENSITY: 10.6

HOLE SIZE: 12.25

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	REMARKS	ESTIMATED m TVD	
1	2038.0	S (#4)	3692.6	0936	2984.1	0955	3693.9			2037.0	
				0938	2 3/4 gallon flow, not allowed to build up						
				0947	1 Gallon segregated sample, build up terminated at 2983.2 psi						
				<u>SAMPLE RECOVERED AT RIG FLOOR</u>							
				PRESSURE IN CHAMBER AT SURFACE - 1800 PSI							
				SAMPLE CONTAINED - 14 cft GAS 7000 cc OIL/CONDENSATE Tr WATER/FILTRATE							
				GAS ANALYSIS THROUGH GEODATA CHROMATOGRAPH - C1 : 235036 ppm nC4 : Tr C2 : 43401 ppm C5 : - C3 : 21210 ppm C6 : - iC4 : 7778 ppm							

NOTES:

REFERENCE LOG: Run 2B ZDL-CNL-GR

CONVERSION CONSTANTS: MPa = PSI * 0.006895

PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC.

REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-4

FIELD: Wildcat

LOCATION: North Sea

RIG: Yatzy

DATE: 22 December 1990

LOGGING Co: Atlas Wireline

RUN No: 2F

GAUGE: HP

GEOLOGIST: Lochtie/Smith MUD TYPE: KCL polymer

MUD DENSITY: 10.6

HOLE SIZE: 12.25

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	REMARKS	ESTIMATED m TVD
1	2000.0	S (#5)	3623.0	1102	2926.0	1154	3628.8			1999.1
				1105	2 3/4 gallon flow, not allowed to build up Slow build up, possible plugged flow line					
				1122	1 Gallon segregated sample, build up terminated at 2926.0 psi Slow build up					
				<u>SAMPLE RECOVERED AT RIG FLOOR</u>						
				PRESSURE IN CHAMBER AT SURFACE - 1550 PSI						
				SAMPLE CONTAINED - 9.5 cft GAS						
				5100 cc OIL/CONDENSATE						
				1900 cc WATER/FILTRATE CHLORIDES - 58000 mg/l						
				GAS ANALYSIS THROUGH GEODATA CHROMATOGRAPH - C1 : 150844 ppm nC4 : - 2581 ppm						
				C2 : 24531 ppm C5 : - not seen						
				C3 : 13332 ppm C6 : - not seen						
				iC4 : 2222 ppm						

NOTES:

REFERENCE LOG: Run 2B ZDL-CNL-GR

CONVERSION CONSTANTS: MPa = PSI * 0.006895

PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC.

WELL 35/11-4

FMT SAMPLE ANALYSIS SUMMARY

Contractor: GECO

	FMT Sample Number				
	1	2	3	4	5
Depth (mMD)	2678	2634.5	2290	2038	2000
Chamber contents	Oil	Gas Condensate	Oil	Oil	Oil

Results from flash separation:

Gas oil ratio (CF/BBL)	893.7	15202.7	742.2	640.0	530.0
Oil density (g/cc)	0.8230	0.8007	0.8446	0.8444	0.8388
Oil Gravity (API)	40.4	45.2	36.0	36.1	37.2
Gas gravity (Air=1)	0.899	0.792	0.766	0.771	0.777

Chamber contents after flash separation:

Gas (litre)	110	548.6	181.2	265.6	222.7
Stock tank oil (cc)	595	290	1340	2310	1920
Water (cc)	1460	40	1500	80	200
Emulsion (cc)	-	25	-	-	200



Baroid A/S

MOBIL EXPLORATION NORWAY INC
35/11-34

TOTAL MATERIAL USAGE

PRODUCT	UNIT	QUANTITY
BARACOR-100	55 g	6
BARADEFOAM W-300	55 g	1
BARASCAV-D	50 kg	94
Barite	MT	415
Bentonite	MT	123
Bentonite	50 kg	30
Bentonite	25 kg	184
Caustic Soda	25 kg	48
DEXTRID	25 kg	1146
EZ MUD	20 kg	230
KCl	25 kg	1359
KCl Brine	bb1	8518
KOH	25 kg	104
Lime	25 kg	5
PAC L	25 kg	216
PAC R	25 kg	407
Soda Ash	25 kg	50
Sodium Bicarbonate	25 kg	150
XCD Polymer	25 kg	274



Baroid A/S

MUD VOLUME DISTRIBUTION SUMMARY

OPERATOR: MOBIL EXPLORATION

WELL: 35/11-4 & 35/11-4S

RIG: Yatzy

Hole Size	Spud Depth	INTERVAL		Built	Dumped	MUD/BRINE			Salvage	Transfer To	Cuttings	
		TD Depth	Length			Formation	Sol. Ctrl Equip	bbh Behind Casing			Volume Drilled	INTERVAL
36	372	517	145	4412	3427	0	0	0	985	0	598	Seawater & Spud Mud
26	517	1010	493	3680	4665	0	0	0	0	985	1087	Seawater & Spud Mud
17.5	1010	2072	1062	11548	0	288	7502	0	3758	0	1105	KCl Polymer
17.5	1700	1941	241	1243	0	0	1299	88	3614	3758	235	KCl Polymer
12.25	1941	3127	1186	2984	0	75	4701	564	1258	3614	570	KCl Polymer
Totals			3127	23867	8092	363	13502	652				3,595

Total Mud/Brine left in hole + behind casing 652 bbl

Total Mud/Brine to sea 21594 bbl

TABLE 3.5

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC

WELL: 35/11-4

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate API ml	Ck 1/32	PV pH	CP	Rheology			Cl mg/l	Ca mg/l	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	MBT ppb	ASG %	LGS %	KCl ppb
								YP lbs/100	Sec ft ²	Min ft ²												
14-Aug-90		Dockyard Bergen																				
15-Aug-90		Dockyard Bergen																				
16-Aug-90		Dockyard Bergen																				
17-Aug-90		8.5	60																			
18-Aug-90	427	8.5	100+																			
19-Aug-90	505	8.7	100+																			
20-Aug-90	517	8.7	100+																			
21-Aug-90	517	8.7	100+																			
22-Aug-90	515	8.7	100+																			
23-Aug-90	925	8.7	100+																			
24-Aug-90	735	8.7	100+																			
25-Aug-90	1010	8.7	100+																			
26-Aug-90	1010	8.7	100+																			
27-Aug-90	1010																					
28-Aug-90	1010																					
29-Aug-90	1010																					
30-Aug-90	1010																					
31-Aug-90	1010																					
01-Sep-90	1010																					
02-Sep-90	1010																					
03-Sep-90	1010																					
04-Sep-90	1010																					
05-Sep-90	1010																					
06-Sep-90	1010																					

TABLE 3.6a

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC

WELL: 35/11-4

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate		pH	PV cp	Rheology Gels		Cl mg/l	Ca mg/l	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	MBT ppb	ASG %	LGS %	KCl ppb	
				API ml	Ck 1/32			YP lbs/100	Sec 10													Min 10
07-Sep-90	1010																					
08-Sep-90	1010																					
09-Sep-90	1010																					
10-Sep-90	1010																					
11-Sep-90	1010																					
12-Sep-90	1010																					
13-Sep-90	1010																					
14-Sep-90	1010																					

TABLE 3.6b

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC

WELL: 35/11-4

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate		pH	PV cp	Rheology Gels			Cl mg/l	Ca mg/l	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	MBT ppb	ASG %	LGS %	KCl ppb
				API ml	Ck 1/32			YP lbs/100	10 Sec	10 Min ft ²												
27-Sep-90	1010	10.1	-	-	-	8.0	19	19	4	5	58,000	300	-	-	-	0	90	5.50	-	3.79	1.30	
28-Sep-90	1010																					
29-Sep-90	1010	10.0	49	3.8	2	9.8	22	24	5	6	55,000	60	0.02	0.10	0.08	0	91	4.60	0.0	4.10	0.20	
30-Sep-90	1010	10.0	48	3.8	2	10.8	22	33	6	7	57,000	80	0.03	0.20	0.10	0	90	5.50	0.0	3.58	1.90	41
01-Oct-90	1010	10.0 +	48	3.8	2	10.9	20	35	5	7	59,000	60	0.03	0.20	0.10	0	90	5.30	0.0	3.63	1.70	43
02-Oct-90	1010	10.1	48	3.8	2	10.9	21	34	5	6	59,000	60	0.03	0.20	0.10	0	90	5.40	0.0	3.89	1.10	42
03-Oct-90	1010	10.1	49	3.8	2	10.9	21	34	5	6	59,000	60	0.03	0.20	0.10	0	90	5.40	0.0	3.84	1.10	42
04-Oct-90	1010	10.1	48	3.8	2	10.8	22	33	6	7	57,000	80	0.03	0.20	0.10	0	90	5.50	0.0	3.80	1.90	41
05-Oct-90	1010	10.0 +	55	3.8	2	10.9	17	17	5	6	58,000	80	0.03	0.10	0.10	0	90	5.50	0.0	3.60	2.00	40
06-Oct-90	1014	10.0 +	54	3.6	2	10.4	22	24	5	6	55,000	80	0.08	0.18	0.10	0	90	5.60	0.0	3.55	2.10	40
07-Oct-90	1064	10.1	65	4.0	2	10.5	19	24	6	7	60,000	120	0.10	0.40	0.10	0	90	5.40	4.0	3.80	1.10	41
08-Oct-90	1192	10.1	65	3.8	2	9.5	19	27	5	6	64,000	200	0.09	0.34	0.07	0	90	5.08	4.0	3.90	0.08	44
09-Oct-90	1192	10.0	63	3.8	2	9.4	19	26	4	6	64,000	300	0.10	0.30	0.06	0	90	5.08	2.0	3.69	1.50	44
00-Oct-90	1192	10.0	63	3.9	1	9.4	19	26	4	6	64,000	300	0.10	0.30	0.06	0	90	5.08	2.0	3.69	1.50	44
01-Oct-90	1192	10.0	63	3.9	2	9.4	19	26	4	6	64,000	300	0.10	0.30	0.06	0	90	5.08	2.0	3.69	1.50	44
02-Oct-90	1192	10.0	63	3.9	1	9.4	19	26	4	6	64,000	300	0.01	0.30	0.06	0	90	5.08	2.0	3.69	1.50	44
03-Oct-90	1192	10.0	63	3.9	1	9.4	19	26	4	6	64,000	300	0.01	0.30	0.06	0	90	5.08	2.0	3.69	1.50	44
04-Oct-90	1194	10.0	57	4.0	2	9.5	14	34	3	3	61,000	300	0.05	0.35	0.07	0	90	5.30	3.0	3.63	1.70	42
	1553	10.3	56	3.2	1	9.3	16	22	4	6	58,000	360	0.10	0.20	0.06	0	89	6.70	8.5	3.70	1.90	38
05-Oct-90	1659	10.2 +	49	3.0	1	9.4	17	19	3	5	56,000	365	0.10	0.25	0.15	0	89	6.89	10.0	3.57	2.40	36
06-Oct-90	1690	10.1	50	3.0	1	9.9	17	21	4	6	61,000	300	0.10	0.25	0.30	0	90	5.17	6.0	3.90	0.04	44
07-Oct-90															0							
08-Oct-90	1755	10.1	45	3.0	1	9.4	14	20	3	4	66,000	300	0.10	0.20	0.12	0	89	5.94	6.0	3.47	2.63	46
09-Oct-90	1777	10.1	44	3.0	1	9.1	15	14	4	5	60,000	340	0.10	0.40	0.25	0	89	6.30	6.0	3.40	2.8	43

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC

WELL: 35/11-4

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate		pH	PV cp	Rheology			Cl mg/l	Ca mg/l	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	MBT ppb	ASG %	LGS %	KCl ppb
				API ml	Ck 1/32			YP	Sec 10	Min 10												
	1822	10.1	+ 45	3.2	1	9.5	15	21	3	6	61,000	320	0.20	0.40	0.30	0	89	6.23	6.0	3.51	2.6	44
20-Oct-90	1822	10.1	45	3.2	1	9.5	15	21	3	6	61,000	320	0.20	0.40	0.30	0	89	6.23	6.0	3.51	2.6	44
21-Oct-90	1850	10.1	+ 45	3.0	1	9.2	16	20	4	5	59,000	340	0.05	0.35	0.35	0	89	6.30	10.0	3.39	2.9	43
	1922	10.2	45	3.0	1	9.2	14	19	4	5	62,000	300	0.10	0.25	0.20	0	89	-	10.0	-	-	46
22-Oct-90	2072	10.2	+ 46	3.4	1	9.3	15	18	4	7	64,000	300	0.10	0.30	0.15	0	89	6.19	11.0	3.72	1.8	43
23-Oct-90	2072	10.2	+ 47	3.6	1	9.1	17	20	5	7	61,000	320	0.07	0.20	0.09	0	89	6.48	13.0	3.65	2.1	40
24-Oct-90	2072	10.2	+ 47	3.6	1	9.1	17	20	5	7	61,000	320	0.07	0.20	0.09	0	89	6.48	13.0	3.65	2.1	40
25-Oct-90	1937	10.3	48	4.0	1	9.0	18	17	5	7	57,000	200	0.08	0.20	0.09	0	88	7.70	14.0	3.34	3.7	39
26-Oct-90	PIT	10.0	44	4.0	1	12.0	14	17	5	7	56,000	440	0.53	0.93	2.50	0	90	5.70	12.0	3.55	2.1	39
27-Oct-90	PIT	10.0	45	4.0	1	12.0	15	18	5	7	58,000	440	0.60	0.90	2.20	0	90	5.70	13.0	3.55	2.1	39
	Tight	10.1	+ 44	4.0	1	12.0	14	15	5	6	57,000	480	0.46	0.90	3.00	0	90	5.60	12.0	3.87	1.0	39
28-Oct-90	Tight	10.1	+ 52	3.8	1	12.0	16	21	4	9	59,000	340	0.20	0.35	2.60	0	89	6.50	13.0	3.47	2.7	41
	Tight	10.0	+ 58	3.8	1	11.7	21	24	6	8	56,000	300	0.25	0.48	1.00	0	90	5.60	15.0	3.67	1.7	40
29-Oct-90	Tight	10.1	+ 58	4.0	1	11.6	20	25	6	8	58,000	360	0.18	0.35	1.70	0	89	6.50	14.0	3.47	2.7	42
	Tight	10.1	57	3.6	1	11.5	19	26	5	7	59,000	340	0.05	0.40	1.55	0	90	5.40	14.0	3.84	1.1	42
30-Oct-90	Tight	10.1	62	4.0	1	11.2	20	26	7	8	60,000	320	0.05	0.30	1.40	0	89	6.40	15.0	3.48	2.6	42
	Tight	10.1	+ 55	4.0	1	10.9	19	27	7	8	59,000	360	0.10	0.19	1.30	0	89	6.50	15.0	3.47	2.7	41
	Tight	10.1	+ 57	4.0	1	10.9	20	26	6	8	59,000	360	0.10	0.20	1.30	0	89	6.50	15.0	3.47	2.7	41
31-Oct-90	Tight	10.1	+ 56	4.0	1	10.6	20	25	6	8	61,000	280	0.02	0.20	0.75	0	88	6.42	18.0	3.48	2.6	41
	Tight	10.2	55	4.0	1	10.5	20	25	6	7	58,000	260	0.06	0.20	0.80	0	88	7.50	16.0	3.21	4.3	41
01-Nov-90	Tight	10.2	+ 50	4.0	2	10.4	20	24	6	7	58,000	260	0.06	0.20	0.80	0	88	7.50	15.0	3.21	4.3	41
02-Nov-90	Tight	10.2	55	4.0	2	12.1	18	23	7	9	60,000	320	0.40	0.70	2.20	0	88	7.30	14.0	3.24	4.0	44
03-Nov-90	Tight	10.2	+ 52	3.6	1	11.6	19	21	5	7	60,000	100	0.24	0.40	1.90	0	88	7.40	14.0	3.31	3.7	42
04-Nov-90	Tight	10.3	60	3.6	1	11.6	18	22	5	7	62,000	160	0.20	0.35	1.60	0	88	7.30	14.0	3.41	3.2	42

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC

WELL: 35/11-4

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate		PV pH	cp	Rheology			Cl mg/l	Ca mg/l	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	MBT ppb	ASG %	LGS %	KCl ppb
				API ml	Ck 1/32			YP	Sec	Min												
				10	10			lbs/100	ft ²													
05-Nov-90	Tight	10.3	59	3.6	1	11.3	18	24	5	7	63,000	180	0.15	0.28	1.40	0	88	7.30	14.0	3.40	3.3	42
06-Nov-90	Tight	10.3	59	3.1	1	10.9	18	23	5	7	62,000	240	0.07	0.22	0.90	0	89	6.85	12.0	3.57	2.4	43
07-Nov-90	Tight	10.3	59	3.1	1	10.9	18	23	5	7	62,000	240	0.07	0.22	0.90	0	89	6.85	12.0	3.57	2.4	43
08-Nov-90	Tight	10.1 +	50	3.3	1	10.9	18	22	5	7	64,000	180	0.06	0.24	0.68	0	88	7.13	14.0	3.26	3.8	43
09-Nov-90	Tight	10.0 +	53	3.8	1	10.5	17	26	5	7	63,000	174	0.05	0.20	0.50	0	89	6.72	13.0	3.19	4.1	42
10-Nov-90	Tight	10.0 +	55	3.0	1	10.6	17	26	5	7	63,000	180	0.06	0.20	0.60	0	89	6.72	13.0	3.20	4.1	42
11-Nov-90	Tight	10.1	49	3.0	1	9.9	16	24	5	8	64,000	180	0.05	0.20	0.40	0	88	7.19	13.5	3.09	4.9	43
12-Nov-90	Tight	10.2 +	54	3.0	1	10.0	16	24	5	8	64,000	180	0.06	0.20	0.50	0	88	7.25	13.5	3.33	3.6	43
13-Nov-90	Tight	10.3 +	53	3.0	1	9.7	16	22	9	7	63,000	280	0.02	0.18	0.30	0	87	8.81	13.0	3.25	4.3	42
14-Nov-90	Tight	10.3	51	3.1	1	9.6	15	26	5	7	62,000	280	0.03	0.17	0.26	0	86	9.29	12.5	2.89	6.9	42
15-Nov-90	Tight	10.3	53	3.1	1	9.1	17	28	5	9	63,000	180	0.02	0.19	0.15	0	87	8.56	12.5	3.09	5.7	41
16-Nov-90	Tight	10.4	51	2.6	1	9.2	18	28	5	7	60,000	200	0.03	0.18	0.12	0	87	8.90	13.0	3.19	5.5	38
	Tight	10.6	50	3.4	1	8.9	16	27	6	7	63,000	180	0.03	0.15	0.15	0	85	10.55	12.5	3.04	7.4	41
17-Nov-90	PIT	10.6 +	50	3.1	1	8.9	17	26	6	8	66,000	220	0.04	0.18	0.10	0	85	10.34	13.0	3.11	6.8	43
	2630	10.6	48	2.9	1	9.0	17	24	5	8	65,000	240	0.03	0.13	0.10	0	85	10.43	13.0	3.05	7.3	42
18-Nov-90	PIT	10.6 +	57	3.0	1	9.2	17	25	5	8	65,000	240	0.04	0.13	0.12	0	85	10.43	13.0	3.10	6.9	42
19-Nov-90	PIT	10.6 +	57	3.0	1	9.2	17	25	5	8	65,000	220	0.04	0.14	0.12	0	85	10.43	13.0	3.10	6.9	42
20-Nov-90	PIT	10.6 +	57	3.0	1	9.2	17	25	5	8	65,000	220	0.04	0.14	0.12	0	85	10.43	13.0	3.10	6.9	42
21-Nov-90	PIT	10.6 +	62	3.0	1	9.2	17	25	5	8	65,000	220	0.05	0.15	0.12	0	85	10.43	13.0	3.10	6.9	42
22-Nov-90	PIT	10.6	62	3.0	1	9.2	17	25	5	8	65,000	220	0.05	0.15	0.15	0	85	10.43	13.0	3.10	6.9	42
23-Nov-90	PIT	10.6	62	3.0	1	9.2	17	25	5	8	65,000	220	0.05	0.15	0.15	0	85	10.43	13.0	3.10	6.9	42
24-Nov-90	PIT	10.6 +	57	3.0	1	9.2	17	23	6	8	65,000	220	0.03	0.15	0.15	0	85	10.43	13.0	3.10	6.9	42
25-Nov-90	PIT	10.6	55	3.0	1	9.2	17	23	6	8	66,000	220	0.03	0.15	0.15	0	85	10.40	13.0	3.11	6.4	42
26-Nov-90	PIT	10.6	55	3.0	1	9.2	17	23	6	8	66,000	220	0.03	0.15	0.15	0	85	10.40	13.0	3.11	6.4	42

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC

WELL: 35/11-4

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate		PV pH	CP	Rheology Gels			Cl mg/l	Ca mg/l	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	MBT ppb	ASG %	LGS %	KCl ppb
				API ml	CK 1/32			YP	Sec	Min												
				10	10			lbs/100	ft ²													
27-Nov-90	PIT	10.6	53	3.0	1	9.2	17	23	6	8	65,000	220	0.04	0.15	0.15	0	85	10.43	13.0	3.10	6.9	42
28-Nov-90	PIT	10.6	53	3.0	1	9.2	17	23	6	8	65,000	220	0.04	0.15	0.15	0	85	10.40	13.0	3.10	6.9	42
29-Nov-90	2651	10.6	46	3.2	1	8.5	16	28	7	10	65,000	360	0.05	0.26	0.15	0	85	10.38	12.0	3.05	6.8	43
30-Nov-90	2685	10.6	47	3.0	1	8.5	17	25	7	9	66,000	360	0.06	0.23	0.22	0	86	9.23	11.0	3.28	4.8	44
01-Dec-90	2696	10.6	45	3.0	1	8.9	16	24	7	9	65,000	360	0.07	0.30	0.24	0	86	9.26	12.0	3.28	4.8	44
02-Dec-90	2824	10.7	45	3.0	1	9.3	17	24	7	8	67,000	200	0.12	0.34	0.44	0	86	9.14	12.0	3.42	4.0	45
03-Dec-90	2874	10.6	46	2.8	1	9.2	16	25	6	8	67,000	160	0.13	0.40	0.35	0	86	9.20	12.0	3.29	4.8	44
04-Dec-90	2910	10.6	45	2.4	1	9.2	16	26	6	8	65,000	160	0.10	0.27	0.25	0	85	10.30	10.0	3.11	6.4	43
05-Dec-90	2910	10.6	49	2.5	1	9.2	18	23	6	8	63,000	200	0.14	0.39	0.38	0	86	9.66	9.0	3.24	5.2	38
06-Dec-90	2910	10.6	49	2.5	1	9.2	18	23	6	8	63,000	200	0.14	0.39	0.38	0	86	9.66	9.0	3.24	5.2	38
07-Dec-90	2910	10.6	50	2.8	1	9.4	17	24	5	7	62,000	200	0.10	0.30	0.30	0	86	9.58	9.0	3.26	5.4	40
08-Dec-90	2910	10.6	50	2.8	1	9.4	17	24	5	7	62,000	200	0.10	0.30	0.30	0	86	9.58	9.0	3.26	5.4	40
09-Dec-90	2910	10.6	50	2.8	1	9.4	17	24	5	7	62,000	200	0.10	0.30	0.30	0	86	9.58	9.0	3.26	5.4	40
10-Dec-90	2910	10.6	50	2.8	1	9.4	17	24	5	7	62,000	200	0.10	0.30	0.30	0	86	9.58	9.0	3.26	5.4	40
11-Dec-90	2910	10.6	56	3.2	1	9.0	19	26	6	9	63,000	220	0.05	0.18	0.20	0	86	9.45	10.0	3.26	5.4	42
12-Dec-90	2910	10.6	56	3.2	1	9.0	19	26	6	9	63,000	220	0.05	0.18	0.20	0	86	9.45	10.0	3.26	5.4	42
13-Dec-90	2910	10.6	56	3.2	1	9.1	19	25	6	9	63,000	220	0.08	0.18	0.20	0	86	9.45	10.0	3.26	5.4	42
14-Dec-90	2910	10.6	56	3.2	1	9.1	19	25	6	9	63,000	220	0.05	0.18	0.20	0	86	9.45	10.0	3.26	5.4	42
15-Dec-90	2910	10.6	55	3.2	1	9.0	19	26	6	9	63,000	220	0.05	0.18	0.20	0	86	9.45	10.0	3.26	5.4	42
16-Dec-90	2910	10.6	56	3.4	1	9.0	19	26	6	9	63,000	220	0.05	0.20	0.20	0	86	9.45	10.0	3.26	5.4	42
17-Dec-90	2963	10.6	45	4.0	1	9.0	12	18	6	8	61,000	380	0.03	0.10	0.15	0	86	9.60	10.0	3.25	5.2	41
18-Dec-90	3043	10.6	43	3.7	1	9.1	14	18	6	8	61,000	340	0.03	0.10	0.10	0	86	9.60	10.0	3.25	5.2	41
	3123	10.6	43	4.0	1	8.9	12	18	5	6	62,000	320	0.02	0.09	0.10	0	87	8.50	10.0	3.52	3.3	41
19-Dec-90	3127	10.6	45	3.8	1	8.9	14	24	7	12	63,000	320	0.02	0.09	0.10	0	86	9.60	10.0	3.25	5.1	40

TABLE 3.6f

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC

WELL: 35/11-4

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate		PV pH cp	Rheology Gels			Cl mg/l	Ca mg/l	Pf	Mf	Pm	Oil %	Water %	Corr. Solids %	MBT ppb	ASG %	LGS %	KCl ppb	
				API ml	Ck 1/32		YP	Sec lbs/100	Min ft ²													
20-Dec-90	3127	10.7	47	3.6	1	8.9	13	21	6	9	63,000	300	0.02	0.08	0.10	0	86	9.60	10.0	3.38	4.6	40
21-Dec-90	3127	10.7	47	3.6	1	8.9	13	21	6	9	63,000	300	0.02	0.08	0.10	0	86	9.60	10.0	3.38	4.6	40
22-Dec-90	3127	10.7	47	3.6	1	8.8	13	21	6	9	63,000	300	0.02	0.08	0.10	0	86	9.60	10.0	3.38	4.6	40
23-Dec-90	3127	10.6 +	47	3.6	1	8.5	13	20	6	9	63,000	260	0.00	0.08	0.08	0	86	9.60	10.0	3.31	4.8	40
24-Dec-90	2810	10.6	50	6.2	1	13.0	14	21	6	7	63,000	640	0.28	0.50	2.10	0	86	9.50	10.0	3.25	5.1	41
25-Dec-90	2810	10.7	50	6.0	1	13.3	12	20	6	7	62,000	440	0.23	0.41	1.60	0	86	9.59	10.0	3.37	4.5	40
26-Dec-90	2810	10.7	50	6.0	1	13.3	12	20	6	7	62,000	440	0.23	0.41	1.60	0	86	9.60	10.0	3.37	4.5	40
27-Dec-90	2810	10.7	50	6.0	1	13.2	13	20	6	7	62,000	440	0.24	0.41	1.60	0	86	9.60	10.0	3.37	4.5	40
28-Dec-90	2810	10.7	50	6.0	1	13.2	13	19	6	7	62,000	440	0.25	0.45	1.60	0	86	9.60	10.0	3.37	4.5	40
29-Dec-90	2810	10.6 +	47	6.4	1	12.9	12	18	6	7	57,000	400	0.15	0.32	1.90	0	86	9.80	10.0	3.28	5.1	38
30-Dec-90	2810	10.6 +	47	6.2	1	12.8	12	18	6	7	57,000	400	0.18	0.32	1.90	0	86	9.80	10.0	3.28	5.1	38
31-Dec-90	2810	10.6 +	48	6.0	1	12.9	13	20	6	7	57,000	460	0.19	0.40	1.90	0	86	9.70	10.0	3.30	5.0	40
01-Jan-91	2810	10.6 +	48	6.0	1	12.9	13	20	6	7	57,000	460	0.20	0.38	1.90	0	86	9.70	10.0	3.30	5.0	40
02-Jan-91	2810	10.6	47	6.0	1	12.9	19	19	5	6	62,000	520	0.18	0.35	1.60	0	87	8.50	10.0	3.51	3.3	40
03-Jan-91	2810	10.6	46	6.0	1	12.9	13	17	5	6	62,000	540	0.19	0.40	1.70	0	87	8.50	10.0	3.51	3.3	40
04-Jan-91	2810	10.6	46	6.0	1	12.9	13	17	5	6	62,000	540	0.19	0.40	1.70	0	87	8.50	10.0	3.51	3.3	40
05-Jan-91	2810	10.6	46	6.0	1	12.9	13	17	5	6	62,000	540	0.19	0.40	1.70	0	87	8.50	10.0	3.51	3.3	40
06-Jan-91	2810	10.6	45	7.6	1	12.9	12	16	4	5	62,000	800	0.20	0.42	1.80	0	87	8.50	10.0	3.51	3.3	35
07-Jan-91	2810	10.6	45	7.6	1	12.9	12	16	4	5	62,000	800	0.20	0.42	1.80	0	87	8.50	10.0	3.51	3.3	35
08-Jan-91	2810																					
09-Jan-91	Rig Left Location																					
10-Jan-91	Engineer Left Rig																					

TABLE 3.6g

**MOBIL EXPLORATION NORWAY INC.
WELL 35/11-4**

DST RESULTS

DST No : 1				INTERVAL : 2676.7 - 2684.2 mRKB (YATZY)		
RESULTS		RESERVOIR TYPE : OIL RESERVOIR PRESSURE : 3933 PSIA AT MID PERFORATIONS				
FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	903	0.810	0.728	1418	60	3857
MAIN	870	0.810	0.722	1418	73	3859
DST No : 2B				INTERVAL : 2286.1 - 2293.1 mRKB (YATZY)		
RESULTS		RESERVOIR TYPE : OIL RESERVOIR PRESSURE : 3353 PSIA AT MID PERFORATIONS				
FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	465	0.833	0.660	874	65	3137
MAIN	1500	0.831	0.655	882	75	3146
DST No : 3				INTERVAL : 2034.0 - 2046.0 mRKB (YATZY)		
RESULTS		RESERVOIR TYPE : OIL RESERVOIR PRESSURE : 2984 PSIA AT MID PERFORATIONS				
FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	149	0.833	0.675	794	62	2929
MAIN	725	0.835	0.675	716	71	2907
DST No : 4B				INTERVAL : 2000.0 - 2003.0 mRKB (YATZY)		
RESULTS		RESERVOIR TYPE : OIL RESERVOIR PRESSURE : 2929 PSIA AT MID PERFORATIONS				
FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	403	0.820	0.645	1791	54	2675
MAIN	300	0.825	0.648	2135	46	2854
NOTE : FLOWING BHP'S QUOTED AT MID-PERFORATION DEPTH						

Table 2.2 DST Results, Fluid Properties

U-642

.3

BA92-517-1
20 03 92
RI GASTRUM
U. 13 2 - 01117

**Geochemical Report for
"Wax" Sample from Well NOCS 35/11-4**

Author: Kjell Arne Bakken

Geolab Nor A/S
Hornebergveien 5
7038 Trondheim
Norway

Date : 04.03.92

RESULTS AND DISCUSSION

One "wax" sample from well 35/11-4 was analysed on behalf of Mobil Exploration Norway by authorisation of Dag Isaksen. The objective was to determine the provenance of the wax. The sample was extracted by solvent, fractionated and the aromatic and saturated hydrocarbons analysed by GC. The saturated fraction also analysed by GC-MS. The data were then compared with other data from well 35/11-4.

Table 1 a: Weight of EOM and Chromatographic Fraction for well WAX 35/11-4

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
1.00	wax	bulk	3.3	55.7	40.1	6.8	4.0	4.8	46.9	8.8	-	0001-0B

Table 1 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well WAX 35/11-4

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1.00	wax	bulk	16626	11970	2029	1194	1432	14000	2626	0001-0B

Table 1 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well WAX 35/11-4

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1.00	wax	bulk	-	-	-	-	-	-	-	0001-0B

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
1.00	wax	bulk	71.99	12.21	7.18	8.62	84.20	15.80	589.71	532.95	0001-0B

Table 2 : Saturated Hydrocarbon Ratios for well WAX 35/11-4

Depth unit of measure: m

Depth	Typ	Lithology	<u>Pristane</u>	<u>Pristane</u>	<u>Pristane + Phytane</u>	<u>Phytane</u>	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
1.00	wax	bulk	0.54	2.19	0.42	0.28	1.08	0001-0B

Table 3 : Aromatic Hydrocarbon Ratios for well WAX 35/11-4

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
1.00	wax	bulk	1.30	3.15	0.28	1.45	1.10	1.26	1.06	-	-	-	0001-0B

Table 4A: Variation in Triterpane Distribution (peak height) SIR for Well WAX 35/11-4

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
1.00	bulk	0.93	0.48	0.17		0.68	0.40	0.09	0.13	0.19	0.12	0.15	0.92	0.41	0.09	54.28		0001-0

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
1.00	bulk	0.82	46.60	79.67	1.19	0.81	0.54	0.40	0.66	0.87	3.67	0001-0

Ratio1: $a / a + j$ Ratio2: $q / q + t * 100\%$ Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$ Ratio4: $a + b + c + d / h + k + l + n$ Ratio5: $r + s / r + s + q$ Ratio6: $u + v / u + v + q + r + s + t$ Ratio7: $u + v / u + v + i + m + n + q + r + s + t$ Ratio8: $r + s / q + r + s + t$ Ratio9: q / t Ratio10: $r + s / t$

Table 4C: Raw GCMS triterpane data (peak height) SIR for Well WAX 35/11-4

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
1.00	bulk	36505.7	20056.6	10349.3	22036.0	5148.9	33451.9	31219.2	17991.9	92900.5	0001-0
		12296.0	8509.1	136768.3	11809.7	52919.2	37575.2	7040.3	26034.8		
		21933.3	18653.0	14936.7	9237.0	6432.7	6540.7	4726.3			

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
1.00	bulk	56746.80	20366.40	46630.20	32287.90	10133.20	12796.60	19839.30	11600.00	14587.50	0001-0
		33863.30	23198.20	10084.00	27561.70	8043.10	10653.90	16198.70	22916.90		
		6128.10	10471.50	24056.10	19969.00	11997.20					

Mobil Exploration Norway Inc.

UTENLANDSK AKSJESELSKAP

PO BOX 510
4001 STAVANGER

TELEPHONE (04) 56 80 00
TELEX 33210 MOEX N
TELEFAX (04) 56 81 22

Oljedirektoratet
P.O. Box 600

4001 STAVANGER

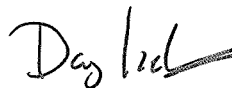
Attn.: K. Kaada

Date: 8 April 1992

**Geokjemidata fra
DST-prøver, 35/11-4**

Vedlagt følger analyse resultater på diskett fra væskeprøver, 35/11-4, utført i samsvar med ønsket standard (OD brev av 30/10-90). En detaljert rapport er oversendt tidligere, mens tabulerte verdier i henhold til standard er vedlagt. Dersom det er spørsmål, vennligst ring undertegnede på 04-568118.

Vennlig hilsen,



Dag Isaksen
Sr. Staff Oper. Geol.

OLJEDIREKTORATET	
Journal nr	—
dato	13 APR. 1992

S. Helgesen 15/4-92

Details of files contained in transfer (tick appropriate boxes):

Logical file nr 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18

Well

NOCS	35/11-4					X	X				X			X		X	X	
NOCS																		
NOCS																		
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Only those files which have been marked above are included in this transfer. See attached sheets for individual file contents.

File Number 01: Rock eval data

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
S0 not supplied	31	37	F7.2
S1 mg/g	38	44	F7.2
S2 mg/g	45	51	F7.2
S3 mg/g	52	58	F7.2
TOC %	59	65	F7.2
Tmax (degrees centigrade)	66	72	I7

File Number 02: Quantified pyrolysis GC data

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
% C1	31	37	F7.2
% C2 to C5	38	44	F7.2
% C6 to C14	45	51	F7.2
% C15+	52	58	F7.2

File Number 03: Vitrinite reflectance measurements

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
POP1	31	37	F7.2
Number of readings taken	38	44	I7

File Number 04: Optical methods, preparation

***** Not supplied *****

File Number 05: Extraction, fractionation

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
Weight of rock extracted in gram	31	37	F7.2
EOM in ppm	38	44	I7
Saturated fraction in ppm	45	51	I7
Aromatic fraction in ppm	52	58	I7
NSO in ppm	59	65	I7
Asphaltenes in ppm	66	72	I7
TOC(e) %	73	79	F7.2

File Number 06: Oil/condensate, fractionation

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
Total oil in gram	31	37	F7.2
Topped oil in gram	38	44	F7.2
EOM %	45	50	F6.2
Saturated fraction %	51	56	F6.2
Aromatic fraction %	57	62	F6.2
NSO %	63	68	F6.2
Asphaltenes %	69	74	F6.2

File Number 07: Hydrocarbon analysis

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
PRI/PHY	31	37	F7.2
PRINC17	38	44	F7.2
PHYNC18	45	51	F7.2
CPI 1	52	58	F7.2
CPI 2	59	65	F7.2

File Number 08: Headspace + occluded gas

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Lower depth of sample	14	20	F7.2
C1 μ l gas/kg rock	21	30	I7
C2 μ l gas/kg rock	31	40	I7
C3 μ l gas/kg rock	41	50	I7
IC4 μ l gas/kg rock	51	60	I7
NC4 μ l gas/kg rock	61	70	I7
C5+ μ l gas/kg rock	71	80	I7

File Number 09: Light hydrocarbons

***** Not supplied *****

File number 10: Light hydrocarbons

***** Not supplied *****

File number 11: Component ratios

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
MPI1	31	37	F7.2
MPI2	38	44	F7.2
DMPI	45	51	F7.2
Bact	52	58	F7.2

File number 12,13:

***** Not supplied *****

File Number 14: Carbon isotope measurements

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
D13 Aromatics	31	37	F7.2
D13 NSO	38	44	F7.2
D13 Asphaltene	45	51	F7.2
D13 Oil	52	58	F7.2
D13 Extract	59	65	F7.2
D13 Kerogen	66	72	F7.2
D13 Kerogen Pyrolysate	73	79	F7.2

File number 15:

***** Not supplied *****

File Number 16: Steranes

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
Component area	31	37	F7.2
Component height	38	44	F7.2
Identification code (a-v)	45	46	A2

File Number 17: Triterpanes

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
Component area	31	37	F7.2
Component height	38	44	F7.2
Identification code (a-z)	45	46	A2

js identifies 22 S aß bishomohopane
jr identifies 22 R aß bishomohopane

File Number 18: Visual kerogen (User defined)

<u>Field Name</u>	<u>Start</u>	<u>End</u>	<u>Format</u>
Sample type	1	6	A6
Sample number	7	15	A9
Upper depth of sample	16	22	F7.2
-	23	23	
Lower depth of sample	24	30	F7.2
Liptinite	32	34	A3
Inertinite	36	38	A3
Vitrinite	40	42	A3
Spore Colour Index	44	46	A3

06NO35/11-4		Geolab Nor								
OIL	001-0	1.00-	1.00	-1.00	0.06	-1.00	75.36	19.75	3.16	1.74
OIL	002-0	2.00-	2.00	-1.00	0.06	-1.00	68.92	23.65	4.90	2.53
OIL	003-0	3.00-	3.00	-1.00	0.06	-1.00	71.45	22.35	4.89	1.31
OIL	004-0	4.00-	4.00	-1.00	0.06	-1.00	69.15	21.23	7.79	1.82

07NO35/11-4		Geolab Nor								
OIL	001-0	1.00-	1.00	2.22	0.60	0.30	1.06	-1.00		
OIL	002-0	2.00-	2.00	1.94	0.51	0.30	1.06	-1.00		
OIL	003-0	3.00-	3.00	1.97	0.49	0.29	1.06	-1.00		
OIL	004-0	4.00-	4.00	2.06	0.51	0.28	1.06	-1.00		

11NO35/11-4		Geolab Nor								
OIL	001-0	1.00-	1.00	0.97	1.19	-1.00	-1.00			
OIL	002-0	2.00-	2.00	0.91	1.06	-1.00	-1.00			
OIL	003-0	3.00-	3.00	0.90	1.06	-1.00	-1.00			
OIL	004-0	4.00-	4.00	0.89	1.04	-1.00	-1.00			

14NO35/11-4		Geolab Nor								
OIL	001-0	1.00-	1.00	26.64	26.23	27.28	-1.00	27.35	-1.00	-1.00
OIL	002-0	2.00-	2.00	27.27	26.67	27.86	-1.00	27.72	-1.00	-1.00
OIL	003-0	3.00-	3.00	26.98	26.65	27.58	-1.00	27.69	-1.00	-1.00
OIL	004-0	4.00-	4.00	27.02	26.70	27.53	-1.00	27.51	-1.00	-1.00

16NO35/11-4		Geolab Nor								
OIL	001-0	1.00-	1.00	83797	602781a					
OIL	001-0	1.00-	1.00	50177	444603b					
OIL	001-0	1.00-	1.00	21429	156808c					
OIL	001-0	1.00-	1.00	19308	138439d					
OIL	001-0	1.00-	1.00	32995	291417e					
OIL	001-0	1.00-	1.00	22852	166374f					
OIL	001-0	1.00-	1.00	23571	216174g					
OIL	001-0	1.00-	1.00	66477	749984h					
OIL	001-0	1.00-	1.00	43896	352382i					
OIL	001-0	1.00-	1.00	16949	102251j					
OIL	001-0	1.00-	1.00	48997	593383k					
OIL	001-0	1.00-	1.00	16127	117444l					
OIL	001-0	1.00-	1.00	17151	119412m					
OIL	001-0	1.00-	1.00	29840	235743n					
OIL	001-0	1.00-	1.00	39305	352385o					
OIL	001-0	1.00-	1.00	11820	106613p					
OIL	001-0	1.00-	1.00	19195	170902q					
OIL	001-0	1.00-	1.00	50981	503731r					
OIL	001-0	1.00-	1.00	38842	341476s					
OIL	001-0	1.00-	1.00	22629	204021t					
OIL	001-0	1.00-	1.00	80931	671872u					
OIL	001-0	1.00-	1.00	29370	225043v					
OIL	002-0	2.00-	2.00	66948	487785a					
OIL	002-0	2.00-	2.00	42416	323617b					
OIL	002-0	2.00-	2.00	14887	120435c					
OIL	002-0	2.00-	2.00	16335	121014d					
OIL	002-0	2.00-	2.00	26290	193320e					
OIL	002-0	2.00-	2.00	17104	106777f					
OIL	002-0	2.00-	2.00	14109	218477g					
OIL	002-0	2.00-	2.00	48334	520102h					
OIL	002-0	2.00-	2.00	21553	153811i					
OIL	002-0	2.00-	2.00	8167	47694j					
OIL	002-0	2.00-	2.00	31715	385313k					
OIL	002-0	2.00-	2.00	11290	73603l					
OIL	002-0	2.00-	2.00	7855	53093m					
OIL	002-0	2.00-	2.00	14784	99324n					
OIL	002-0	2.00-	2.00	17672	139116o					
OIL	002-0	2.00-	2.00	5306	27327p					
OIL	002-0	2.00-	2.00	11850	82025q					
OIL	002-0	2.00-	2.00	20417	190079r					
OIL	002-0	2.00-	2.00	16913	126175s					

OIL	002-0	2.00-	2.00	11762	89315t
OIL	002-0	2.00-	2.00	54821	449656u
OIL	002-0	2.00-	2.00	22100	164463v
OIL	003-0	3.00-	3.00	68606	492474a
OIL	003-0	3.00-	3.00	41711	326632b
OIL	003-0	3.00-	3.00	15976	106546c
OIL	003-0	3.00-	3.00	15617	113349d
OIL	003-0	3.00-	3.00	33620	181429e
OIL	003-0	3.00-	3.00	14152	113310f
OIL	003-0	3.00-	3.00	11998	81037g
OIL	003-0	3.00-	3.00	43708	469463h
OIL	003-0	3.00-	3.00	20564	148195i
OIL	003-0	3.00-	3.00	8361	55907j
OIL	003-0	3.00-	3.00	30716	354729k
OIL	003-0	3.00-	3.00	9421	73298l
OIL	003-0	3.00-	3.00	8891	48869m
OIL	003-0	3.00-	3.00	12982	82712n
OIL	003-0	3.00-	3.00	19355	154885o
OIL	003-0	3.00-	3.00	4650	46573p
OIL	003-0	3.00-	3.00	10472	101164q
OIL	003-0	3.00-	3.00	21488	204943r
OIL	003-0	3.00-	3.00	18101	167076s
OIL	003-0	3.00-	3.00	10146	88919t
OJ	003-0	3.00-	3.00	56639	466329u
OIL	003-0	3.00-	3.00	19756	136515v
OIL	004-0	4.00-	4.00	58988	432300a
OIL	004-0	4.00-	4.00	39141	315429b
OIL	004-0	4.00-	4.00	11616	86907c
OIL	004-0	4.00-	4.00	16517	107498d
OIL	004-0	4.00-	4.00	22851	163220e
OIL	004-0	4.00-	4.00	15831	108425f
OIL	004-0	4.00-	4.00	14630	111175g
OIL	004-0	4.00-	4.00	38581	427315h
OIL	004-0	4.00-	4.00	17623	134763i
OIL	004-0	4.00-	4.00	9406	66009j
OIL	004-0	4.00-	4.00	30069	359232k
OIL	004-0	4.00-	4.00	10126	63393l
OIL	004-0	4.00-	4.00	6423	45593m
OIL	004-0	4.00-	4.00	15305	99936n
OIL	004-0	4.00-	4.00	15998	132763o
OIL	004-0	4.00-	4.00	5182	52369p
OIL	004-0	4.00-	4.00	8559	84094q
OIL	004-0	4.00-	4.00	15331	181785r
OI	004-0	4.00-	4.00	14211	117790s
OIL	004-0	4.00-	4.00	8885	73053t
OIL	004-0	4.00-	4.00	48552	375760u
OIL	004-0	4.00-	4.00	16680	128927v

17N035/11-4		Geolab Nor			
OIL	001-0	1.00-	1.00	50575	406735a
OIL	001-0	1.00-	1.00	41242	298641b
OIL	001-0	1.00-	1.00	105505	817965c
OIL	001-0	1.00-	1.00	15474	154470d
OIL	001-0	1.00-	1.00	208893	1604380e
OIL	001-0	1.00-	1.00	21792	144730f
OIL	001-0	1.00-	1.00	66618	524423g
OIL	001-0	1.00-	1.00	44915	348032h
OIL	001-0	1.00-	1.00	12847	110320i
OIL	001-0	1.00-	1.00	46455	318868js
OIL	001-0	1.00-	1.00	32192	207624jr
OIL	001-0	1.00-	1.00	28806	217418ks
OIL	001-0	1.00-	1.00	17535	146102kr
OIL	001-0	1.00-	1.00	14377	107908ls
OIL	001-0	1.00-	1.00	8885	69479lr
OIL	001-0	1.00-	1.00	9279	62363ms
OIL	001-0	1.00-	1.00	6089	41130mr

OIL	001-0	1.00-	1.00	43522	407653z
OIL	001-0	1.00-	1.00	32450	241361x
OIL	001-0	1.00-	1.00	33460	248978p
OIL	001-0	1.00-	1.00	20127	157258q
OIL	001-0	1.00-	1.00	9449	99996r
OIL	001-0	1.00-	1.00	27294	206964s
OIL	001-0	1.00-	1.00	7526	57098t
OIL	002-0	2.00-	2.00	47706	405269a
OIL	002-0	2.00-	2.00	18203	127090b
OIL	002-0	2.00-	2.00	44834	358709c
OIL	002-0	2.00-	2.00	5625	47597d
OIL	002-0	2.00-	2.00	127167	949500e
OIL	002-0	2.00-	2.00	10093	82920f
OIL	002-0	2.00-	2.00	42281	321986g
OIL	002-0	2.00-	2.00	28893	198982h
OIL	002-0	2.00-	2.00	7109	45868i
OIL	002-0	2.00-	2.00	27414	195158js
OIL	002-0	2.00-	2.00	20942	160872jr
OIL	002-0	2.00-	2.00	19977	138169ks
OIL	002-0	2.00-	2.00	11547	84724kr
OIL	002-0	2.00-	2.00	10807	75445ls
OIL	002-0	2.00-	2.00	7077	48910lr
OIL	002-0	2.00-	2.00	6196	42510ms
OIL	002-0	2.00-	2.00	4723	22554mr
OIL	002-0	2.00-	2.00	17344	156069z
OIL	002-0	2.00-	2.00	30375	233097x
OIL	002-0	2.00-	2.00	25080	162514p
OIL	002-0	2.00-	2.00	20884	165784q
OIL	002-0	2.00-	2.00	10279	95451r
OIL	002-0	2.00-	2.00	17112	106891s
OIL	002-0	2.00-	2.00	4892	24390t
OIL	003-0	3.00-	3.00	44232	362550a
OIL	003-0	3.00-	3.00	16435	129436b
OIL	003-0	3.00-	3.00	46263	371077c
OIL	003-0	3.00-	3.00	5361	27552d
OIL	003-0	3.00-	3.00	121618	934025e
OIL	003-0	3.00-	3.00	10624	74591f
OIL	003-0	3.00-	3.00	48840	353065g
OIL	003-0	3.00-	3.00	27880	201033h
OIL	003-0	3.00-	3.00	8646	72967i
OIL	003-0	3.00-	3.00	29901	200841js
OIL	003-0	3.00-	3.00	19101	138827jr
OIL	003-0	3.00-	3.00	16631	133939ks
OIL	003-0	3.00-	3.00	10479	72062kr
OIL	003-0	3.00-	3.00	7505	47595ls
OIL	003-0	3.00-	3.00	7123	53630lr
OIL	003-0	3.00-	3.00	6340	44201ms
OIL	003-0	3.00-	3.00	4375	24055mr
OIL	003-0	3.00-	3.00	17283	146137z
OIL	003-0	3.00-	3.00	31348	223122x
OIL	003-0	3.00-	3.00	26647	171383p
OIL	003-0	3.00-	3.00	20660	114872q
OIL	003-0	3.00-	3.00	7462	54961r
OIL	003-0	3.00-	3.00	16988	105479s
OIL	003-0	3.00-	3.00	5017	25158t
OIL	004-0	4.00-	4.00	41819	350027a
OIL	004-0	4.00-	4.00	13220	95693b
OIL	004-0	4.00-	4.00	43160	291843c
OIL	004-0	4.00-	4.00	4070	27644d
OIL	004-0	4.00-	4.00	103929	804888e
OIL	004-0	4.00-	4.00	7596	51074f
OIL	004-0	4.00-	4.00	34057	266634g
OIL	004-0	4.00-	4.00	25076	181996h
OIL	004-0	4.00-	4.00	4723	37160i
OIL	004-0	4.00-	4.00	26619	178490js
OIL	004-0	4.00-	4.00	15818	118529jr

OIL	004-0	4.00-	4.00	14215	104704ks
OIL	004-0	4.00-	4.00	10718	64792kr
OIL	004-0	4.00-	4.00	6270	37736ls
OIL	004-0	4.00-	4.00	4423	31307lr
OIL	004-0	4.00-	4.00	3918	32445ms
OIL	004-0	4.00-	4.00	3616	21712mr
OIL	004-0	4.00-	4.00	15648	127594z
OIL	004-0	4.00-	4.00	27854	190406x
OIL	004-0	4.00-	4.00	26496	171910p
OIL	004-0	4.00-	4.00	16267	119572q
OIL	004-0	4.00-	4.00	8994	111143r
OIL	004-0	4.00-	4.00	16540	102592s
OIL	004-0	4.00-	4.00	4124	20020t
