

MOBIL EXPLORATION NORWAY INC.

WELL 35/11-3

HOLE/CASING/MUD/CEMENTING DATA

HOLE SIZE/MUD TYPE	CASING AND THREAD	SHOE DEPTH (mRKB)	CEMENTING
36": M.L.-499.5 mRKB SEAWATER/VISCOUS PILLS	30", 310 LB/FT DRIL-QUIP NS60, GRADE B	498	500 BBL (2000SX LITE-FILL CEMENT), MIXED W/0.02 GAL/SX D47 AND 0.5 GAL/SX D77 at 14.0 PPG
26": 499.5-1010 mRKB SEAWATER/VISCOUS PILLS	20", 133 LB/FT VETCO ALT-2 VETCO LS DRIL-QUIP S-60 (ALL GRADE X-56)	1000	SCAVENGER SLURRY: 160 BBL (445 SX LITE FILL CEMENT), MIXED AT 12.5 PPG. LEAD SLURRY: 850 BBL (2500 SX CLASS G CEMENT), MIXED W/2.17 BBL/SX PRE-HYDRATED BENTONITE AT 13.0 PPG. TAIL SLURRY: 200 BBL (900 SX CLASS G CEMENT), MIXED W/0.02 GAL/SX D47 AND 0.2 GAL/SX D77 AT 16.0 PPG
17½": 1010-2057 mRKB KCL/POLYMER	13-3/8" 72 LB/FT BTC GRADE L-80	2040	LEAD SLURRY: 613 BBL (1803 SX CLASS G CEMENT), MIXED W/0.2 GAL/SX D47 AND 2.7% PRE-HYDRATED BENTONITE AT 13.0 PPG. TAIL SLURRY: 81 BBL (397 SX CLASS G CEMENT), MIXED W/0.2 GAL/SX D47 AND 0.05 GAL/SX D81 AT 15.8 PPG
12¼": 2057-3115 mRKB KCL/POLYMER	9-5/8" 53.5 LB/FT BTC GRADE L-80	3111	LEAD SLURRY: 350 BBL (1170 SX CLASS G CEMENT), MIXED W/1.7% BENTONITE AND 0.02 GAL/SX D47 AND 0.08 GAL/SX D81 AT 13.5PPG. TAIL SLURRY: 65 BBL (320 SX CLASS G CEMENT), MIXED W/0.08 GAL/SX D81 AT 15.8 PPG
8½": 3115-4040 mRKB KCL/POLYMER	—	—	

ABANDONMENT PLUGS (mRKB)

3700-4040
3360-3700
3045-3161

MOBIL EXPLORATION NORWAY INC.

WELL 35/11-3

FMT RESULTS

DATE/ RUN No.	DEPTH (mRKB)		HYDSTAT MUD PRESSURE psia	FM. PRESSURE (HP GAUGE)		TEMP. °C	REMARKS
	MEASURED	TVD		psia	Mpa		
08/08/89 RUN 2C							
1	2717.2	2711.8	5382.5	—	—	78.1	No seal
2	2718.5	2713.1	5384.9	—	—	78.1	No seal
3	2734.0	2728.4	5415.0	—	—	78.3	No seal
4	2738.0	2732.3	5423.1	—	—	78.4	No seal
5	3081.2	3072.3	6104.3	—	—	84.3	No seal
6	3093.5	3084.5	6127.5	—	—	86.1	Tight. Pressure built 250psi/5min.
7	3095.0	3086.0	6131.3	—	—	88.0	No seal
8	3095.2	3086.2	6131.4	—	—	88.0	No seal
9	3093.7	3084.7	6128.3	—	—	88.1	No seal
10	3093.3	3084.3	6127.5	6065.4	41.82	89.2	Good permeability
11	3093.3	3084.3	6127.5	6065.1	41.82	89.2	2-¾ gal sample: lost seal
12	3093.3	3084.3	6128.0	6065.1	41.82	89.3	1 gal sample: lost seal
13	3082.8	3073.9	6106.9	—	—	89.4	No seal
30/08/89 RUN 3C							
1	3452.8	3441.1	7771.5	7366.5	50.79	114.9	Low permeability: Supercharged
2	3455.0	3443.8	7777.0	—	—	115.3	Tight
3	3469.0	3457.3	7809.0	7040.4	48.54	115.6	Good permeability
4	3496.5	3484.3	7868.0	—	—	118.0	Tight. Tool stuck in hole
03/09/89							
1	3469.0	3457.3	6969.0	6970.0 ?	48.06 ?	112.8	Good permeability: lost seal ?
2	3533.5	3521.2	7107.0	7022.0	48.42	114.5	Good permeability
3	3575.0	3563.1	7181.0	7065.0	48.71	118.0	Good permeability
4	3599.0	3587.1	7229.0	7110.0	49.02	119.0	Good permeability
5	3694.5	3682.1	7421.0	7207.0	49.69	120.6	Good permeability
6	3533.5	3521.2	7091.0	7012.0	48.35	118.8	Good permeability
7	3469.0	3457.3	6964.0	—	—	116.5	Tight
8	3469.0	3457.3	6969.0	6980.0 ?	48.13 ?	115.3	Good permeability: lost seal?



Baroid A/S

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC. WELL: 35/11-3

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate				Rheology Gels						Corr.									
				API ml	HPHT ml	Ck 1/32"	pH	YP PV cp	lbs/100 sq ft	10 Sec	10 Min	Cl g/l	Ca ppm	Pf	Mf	Pm	Oil %	Water %	Solids %	MBT ppb	KCl ppb	ASG	
27-Jun-89	436	8.6	100+					SPUD	MUD														
28-Jun-89	499.5	8.6	100+					SPUD	MUD														
29-Jun-89	499.5	8.6	100+					SPUD	MUD														
30-Jun-89	692	8.6	100+					SPUD	MUD														
01-Jul-89	1010	8.6	100+					SPUD	MUD														
02-Jul-89	923	8.6	100+					SPUD	MUD														
03-Jul-89	1010	11.5	100					SPUD	MUD														
04-Jul-89	1000	11.5	100					SPUD	MUD														
05-Jul-89								Mixing KCl-Dextrid mud for next Session															
06-Jul-89	PIT	10	55	5			1	9	20	32	5	6	40	50	0.9	1.6		0	93	2.3	0	42	6.6
07-Jul-89	PIT	10	53	4.5			1	9.1	18	27	5	6	42	40	0.15	0.6		0	92	3.3	0	42	4.8
08-Jul-89	PIT	10	53	4.5			1	9	18	27	5	5	55	50	0.15	0.6		0	92	3.2	0	42	4.8
09-Jul-89	PIT	10	53	4.2			1	9	18	27	5	5	55	50	0.13	0.5		0	92	3.2	0	42	4.8
10-Jul-89	1279	10	48	4.5			1	10.1	17	21	4	5	42	360	0.16	0.7	0.3	0	91	4.4	3	42	3.9
11-Jul-89	1539	10.1	51	5			1	9	21	20	5	7	48	280	0.1	0.2	0.1	0	89	6.7	7.5	40	2.9
12-Jul-89	1761	10	47	4.9			1	8.8	16	19	5	7	50	380	0.1	0.2	0.1	0	90	5.4	12.5	42	3.3
13-Jul-89	1776	10	50	4.8			1	9	16	20	7	9	50	420	0.1	0.2	0.1	0	90	5.6	12.5	40	3.3
14-Jul-89	1987	10.5	47	4.7			1	8.9	17	21	7	9	52	400	0.1	0.2	0.1	0	88	7.5	10	40	3.5
15-Jul-89	1997	10.5	49	4			1	8.6	16	21	5	7	52	400	0.05	0.15	0.1	0	87	8.9	10	39	3.1
16-Jul-89	2040	10.6	47	4			1	9	18	23	7	9	49	400	0.01	0.1	0.1	0	88	7.7	15	40	3.6
17-Jul-89	2057	10.6	47	4			1	8.6	14	16	4	7	49	400	0.01	0.1	0.1	0	88	7.8	15	39	3.5
18-Jul-89	2057	10.6	47	4			1	8.6	14	16	4	7	47	400	0.01	0.05	0.1	0	88	7.8	15	38	3.5
19-Jul-89	2057	10.8	47	4			1	8.6	14	16	4	7	49	400	0.02	0.05	0.1	0	88	7.8	15	38	3.5
20-Jul-89	2057	10.8	47	4.3			1	8.4	16	18	6	9	45	600	0.01	0.03	0.1	0	88	7.9	15	38	3.8
21-Jul-89	2057	10.8	47	4.2			1	8.1	13	19	5	7	48	440	0.01	0.1	0.1	0	88	7.9	15	40	3.7
22-Jul-89	2040	10.8	45	4.3			1	8.2	15	18	5	7	44	380	0	0.15	0.1	0	88	7.9	16.5	38	3.7
23-Jul-89	2004	10.8	48	4.2			1	8.1	13	24	6	12	42	600	0	0.3	0.05	0	87	9.4	17	34	3.5

TABLE 4.4



Baroid A/S

MUD PROPERTY RECAP - Water Based

OPERATOR: MOBIL EXPLORATION NORWAY INC. WELL: 35/11-3

Date	Depth m	Mud Wt. ppg	Mud Vis. sec	Filtrate				Rheology Gels						Corr.								
				API ml	HPHT ml	Ck 1/32"	pH	PV cp	YP lbs/100 sq ft	10 Sec	10 Min	Cl g/l	Ca ppm	Pf	Mf	Pm	Oil %	Water %	Solids %	MBT ppb	KCl ppb	ASG
24-Jul-89	2069	10.8	45	5.7		1	10.2	10	20	7	12	43	580	0	0.35	1	0	87	9.7	17.5	28	3.5
25-Jul-89	2129	10.8	50	4.4		1	10.2	18	27	7	13	45	280	0	0.35	1.3	0	87	9.6	17	30	3.6
26-Jul-89	2225	10.8	52	4.4		1	10.2	24	26	8	13	49	280	0	0.3	1.3	0	87	9.9	17	30	3.5
27-Jul-89	2273	10.8	52	4.5		1	10.1	19	22	6	14	42	240	0	0.35	1.25	0	87	9.7	19	31	3.5
28-Jul-89	2366	10.5	50	4.1		1	9.4	18	22	7	12	47	280	0	0.3	1	0	89	7.2	15	35	3.7
29-Jul-89	2432	10.5	56	3.6		1	9	18	26	7	15	50	200	0	0.25	0.8	0	88	7.9	16.5	38	3.5
30-Jul-89	2531	10.5	49	3.8		1	8.6	18	22	7	15	53	240	0	0.5	0.7	0	89	7	15	37	3.7
31-Jul-89	2533	10.6	51	3.8		1	8.6	18	21	7	14	53	200	0	0.5	0.5	0	88	8	15	38	3.5
01-Aug-89	2620	10.5	50	4		1	8.4	17	21	5	10	50	200	0	0.3	0.4	0	89	6.9	15	38	3.8
02-Aug-89	2698	10.5+	49	3.8		1	8.4	17	22	5	11	49	200	0	0.35	0.5	0	88	8.1	15	37	3.5
03-Aug-89	2726	10.5	47	4		1	8.8	16	18	5	12	53	320	0	0.5	0.5	0	89	7	15	39	3.7
04-Aug-89	2775	10.5	48	3.8		1	9.3	15	18	5	9	52	200	0	0.3	0.8	0	89	7	15	38	3.7
05-Aug-89	3039	10.5	48	3.8		1	9.3	16	19	5	12	49	120	0	0.5	0.5	0	89	6.9	14	37	3.8
06-Aug-89	3082	11.5	48	3.4		1	9.3	18	20	6	11	50	120	0.05	0.8	0.4	0	85	11.2	12.5	37	3.8
07-Aug-89	3096	11.5	50	3.1		1	8.6	18	20	5	10	51	100	0	0.8	0.4	0	85	11.3	12	37	3.7
08-Aug-89	3115	11.5	45	3		1	9.2	17	19	5	10	51	100	0	0.8	0.3	1	84	11.3	10	37	3.7
09-Aug-89	3115	11.5	45	3.3		1	9.2	17	19	5	10	51	100	0	0.8	0.3	1	84	11.3	10	37	3.7
10-Aug-89	3115	11.5	48	3.2		1	8.9	17	17	5	9	51	100	0.01	0.7	0.3	1	84	11.3	10	37	3.7
11-Aug-89	3115	11.5	48	3.2		1	8.9	17	17	5	9	51	100	0.01	0.8	0.3	TR	85	11.3	10	37	3.7
12-Aug-89	3115	11.5	47	3.3		1	8.7	17	18	5	8	51	100	0.01	0.8	0.3	TR	85	11.3	10	37	3.7
13-Aug-89	3115	11.5	46	3.7		1	8.7	18	17	5	9	48	120	0.1	0.8	0.3	TR	85	11.3	10	36	3.7
14-Aug-89	3115	11.5	46	3.8		1	8.7	18	18	5	9	48	120	0.1	0.9	0.3	TR	85	11.3	10	34	3.7
15-Aug-89	3115	11.5	54	3.8		1	11.6	16	26	5	18	49	130	0.15	0.9	2.8	TR	84	12.9	10	27	3.7
16-Aug-89	3118	11.5	53	4.6		1	12.3	18	18	9	24	48	160	0.4	1.25	6.4	TR	85	11.4	11	27	3.7
17-Aug-89	3178	13.5	59	3.8		1	12.2	26	20	5	8	38	60	0.6	1.3	4.3	TR	78	19.8	7.5	24	3.8
18-Aug-89	3281	13.5	53	3.9		1	11.3	22	16	3	8	38	60	0.4	0.9	3.7	TR	78	19.8	7.5	23	3.9
19-Aug-89	3333	13.5	50	3.8		1	11.2	21	15	3	7	40	60	0.3	0.9	3.5	TR	78	19.6	7.5	28	3.9

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THE ROBERTSON GROUP plc

REPORT NO. 6669/Ic

PETROLEUM GEOCHEMICAL EVALUATION OF THE INTERVAL 1050m TO 4040m IN THE MOBIL NORWAY 35/11-3 WELL, NORWEGIAN NORTH SEA

by

M A BASTOW

BA-90-182-1

22 JAN. 1990

REGISTRERT

OLJEDIREKTORATET

PROJECT NO. RGPD/890/Ic/21806

Prepared by:

The Robertson Group plc
Petroleum Division
Llandudno
Gwynedd LL30 1SA
United Kingdom

Prepared for:

Mobil Exploration Norway Inc.
PO Box 510
4001 Stavanger
Norway

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2 INTRODUCTION

This report describes the results of a petroleum geochemical evaluation of the interval 1050m to 4040m in the Mobil Exploration Norway Inc. 35/11-3 well, drilled in the Norwegian North Sea.

The geochemical analytical programme has been carried out in accordance with the bid for geochemical services dated 17th February 1989 (proposal number 89/Ic-009), which was accepted by the client by letter dated 2 March 1989. Terms and conditions agreed are outlined in the short form agreement N95FA07 324, dated 15th June.

The total number of analyses carried out during the course of the study were as follows:

Airspace gaseous hydrocarbon analysis	:	109
Sample preparation	:	134
Picking of individual lithologies	:	48
Total organic carbon content	:	183
Rock-Eval pyrolysis	:	68
Solvent extraction	:	17
Extract fractionation (Iatroscan)	:	15
Alkane gas chromatography	:	15
Kerogen preparation	:	35
Spore colouration index	:	35
Vitrinite reflectivity	:	41

GENERAL DATA

Interval analysed : 1050m to 4040m

Sample type and quality : 109 drill cuttings samples, of generally good quality and good, occasionally fair quantity for geochemical analysis. 25 sidewall core samples of good quality, generally fair but occasionally poor quantity.

Maturity data quality : Good, spore colouration, index, vitrinite reflectivity and pyrolysis T_{max} data in good agreement. Sidewall core samples provide important maturity data in Upper Jurassic section.

Source rock data quality : Good

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, from microscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
1050	Ctgs	MDST, lt ol-gy, slty + tr SND	3.0 ?	.27(34)	Prt	5	95				
1250	Ctgs	MDST, ol-gy, slty+ 20% MDST, lt ol-gy, slty+ tr SND	3.0 ?	.25(36)	Prt	10	90				
1430	Ctgs	MDST, ol-blk, slty+ 20% MDST, ol-gy, slty+ mnr MDST, lt ol-gy, slty+ tr SST+ tr LST, brn-blk	3.0 ?	.27(50)	5	5	90				
1490	Ctgs	MDST, ol-blk, slty+ mnr LST, brn-blk	3.0 ?	.27(49)	5	5	90				
1589	Ctgs	MDST, gn-gy+ tr MDST brn-gy+ tr MDST, yel-gy	3.0 ?	.34(38)	5	5	90				
1691	Ctgs	MDST, gn-gy+ 30% MDST, ol-gy+ tr MDST lt ol-gy	3.0 ?	.34(18)	5	5	90				
1750.0	Swc	MDST, med gy	3.0	.44(2)R .60(4)R .93(3)R	*	Prt	100				
1790	Ctgs	MDST, dk gy+ 30% MDST, med-dk gy+ tr MDST, mod brn+ tr SST	3.0	.36(10)	Prt	10	90				
1825.0	Swc	MDST, brn-gy	3.0		100	Prt	Prt				
1910	Ctgs	MDST, med-dk gy+ 10% SND+ tr CALT+ tr pyr	3.0	.32(26)	15	35 Am	50				
2005.0	Swc	MDST, dk gn-gy	3.5	.51(7)R .79(3)R 1.26(3)R	5	Prt	95				
2009	Ctgs	MDST, med-dk gy+ 10% MDST, ol-gy+ mnr MDST, mod brn+ mnr SST+ mnr SND	3.5	.33(10)	5	45	50				
2051	Ctgs	MDST, med-dk gy+ mnr MDST, mod brn+ tr MDST, yel-gy	4.0	.33(12)	5	75 Am	20				
2170	Ctgs	MDST, med-dk gy+ mnr LST, pnk-gy	3.5	.58(7)R .80(14)R 1.06(11)R	10	70 Am	20				
2330	Ctgs	MDST, med-dk gy+ mnr SST, wht, glc+ tr MDST, lt gy+ tr MDST pal yel-brn	4.0	.95(6)R 1.29(17)R 1.58(5)R 1.81(14)R	10	70 Am	20				
2530	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn+ tr HAL	3.5 ?	.73(8)R 1.08(12)R 1.38(21)R 1.70(11)R	10	70 Am	20				

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1A

COMPANY: MOBIL NORWAY

WELL: 35/11-3

LOCATION: NORWEGIAN NORTH SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R of L av %	% (Visual, from microscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
2690	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn	3.5 ?	.90(8)R 1.17(6)R 1.41(14)R 1.69(17)R	30	60 Am	10				
2800	Ctgs	MDST, dk gy+ 10% MDST, v lt gy, sndy	4.0	.68(2)R	100	*	Prt				
2840	Ctgs	SH, gy-blk+ mnr LST, v lt gy	3.5	.34(20)	5	5	90				
2880	Ctgs	SH, gy-blk+ tr LST, v lt gy+ tr MDST, mod brn	3.5	.32(6) .54(4)R	5	5	90				
2890.0	Swc	MDST, med gy	4.0	.30(14) .47(13)R .70(2)R .92(4)R	5	5	90				
2900	Ctgs	SH, gy-blk+ tr LST, v lt gy									
	P	SH, gy-blk		.60(1)R							
2920	Ctgs	SH, gy-blk	3.5	.36(32)	5	5	90				
2960	Ctgs	SH, gy-blk	3.5	.35(42) .55(8)R .84(3)R	5	5	90				
3000	Ctgs	SH, gy-blk	4.0	.37(13) .47(13)R .66(5)R	10	5	85				
3040	Ctgs	SH, gy-blk	4.5	.35(41)	5	5	90				
3060	Ctgs	SH, gy-blk									
	P	SH, gy-blk		.39(33) .53(18)R .66(4)R							
3080	Ctgs	SH, gy-blk+ tr LST, v lt gy	4.5	.37(50)	5	Prt	95				
3100.0	Swc	MDST, dk gy	5.5	.59(29) .75(9)R .96(8)R 1.26(5)R	45	5	50				
3110.0	Swc	MDST, dk gy	6.0	.58(28) .46(10)L .74(16)R	30	20	50				
3220	Ctgs	MDST, dsk yel-brn, slty+ 30% SND+ mnr CMT	5.5	.45(51)	5	Prt	95				
3310	Ctgs	SH, gy-blk+ tr SND	6.0	.73(16) .49(5)C 1.01(16)R 1.60(3)R	5	5	90				

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1B

COMPANY: MOBIL NORWAY

WELL: 35/11-3

LOCATION: NORWEGIAN NORTH SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, from microscopy)			% (Calculated)				
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP	
3430	Ctgs	SH, gy-blk+ 10% SND + tr CMT	6.5-7.0	.73(29) .87(8)R 1.01(9)R	20	70	10					
3430.0	Swc	MDST, med-dk gy	6.5	.76(27) .92(16)R 1.18(4)R 1.69(4)R	40	30	30					
3438.00	Swc	COAL										
	P	COAL		.87(41)								
3443.50	Swc	COAL										
	P	COAL		1.02(50)								
3580.00	Swc	SST, lt gy+ mnr COAL										
	P	COAL		.83(19) 1.00(10)R 1.29(9)R 1.57(11)R								
3670	Ctgs	SND+ 20% SH, dk gy+ 10% MDST, v lt gy, sly	7.0	.79(37) .61(6)C 1.04(12)R	30	40	30					
3880	Ctgs	SH, dk gy+ 30% SND+ tr MDST, v lt gy, sly	7.5	.96(27) .74(9)C 1.27(7)R	65	20	15					
4000	Ctgs	SND+ 20% SH, gy-blk, carb+ 10% MDST, dk gy+ mnr MDST, v lt gy, sly	7.0 ?	1.03(27) 1.22(12)R 1.43(8)R	10	90	Prt					
	P	SH, gy-blk, carb		.96(50)								
4040	Ctgs	SND+ 10% SH, gy-blk, carb+ mnr MDST, dk gy+ tr CALT										
	P	SH, gy-blk, carb		.93(50) 1.12(1)R								

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1C

GENERAL DATA			CHEMICAL ANALYSIS DATA														
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION								
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %OC	EXTR. %EX	ALK. %HC			
1050	Ctgs	MDST, lt ol-gy, slty+ tr SND	1.93														
1090	Ctgs	MDST, lt ol-gy, slty+ tr SND	1.96														
1130	Ctgs	MDST, lt ol-gy, slty+ tr SND	1.86														
1170	Ctgs	MDST, lt ol-gy, slty+ tr SST	1.57														
1210	Ctgs	SLTST, lt ol-gy	1.38														
1250	Ctgs	MDST, ol-gy, slty+ 20% MDST, lt ol-gy, slty+ tr SND	1.33														
1290	Ctgs	MDST, ol-gy, slty+ tr MDST, lt ol-gy, slty	1.55														
1330	Ctgs	MDST, ol-gy, slty+ tr MDST, lt ol-gy, slty+ tr SST+ tr glc	1.63														
1370	Ctgs	MDST, ol-gy, slty+ mnr MDST, lt ol-gy, slty+ tr foss+ tr SND+ tr glc	1.95														
1409	Ctgs	MDST, ol-gy, slty+ tr SST	2.26														
1430	Ctgs	MDST, ol-blk, slty+ 20% MDST, ol-gy, slty+ mnr MDST, lt ol-gy, slty+ tr SST+ tr LST, brn-blk	2.43														
1451	Ctgs	MDST, ol-blk, slty+ tr LST, brn-blk+ tr LST, yel-gy	2.92														
1469	Ctgs	MDST, ol-blk, slty+ tr SND	2.80														
1490	Ctgs	MDST, ol-blk, slty+ mnr LST, brn-blk	2.73														
1511	Ctgs	MDST, brn-gy+ 30% MDST, gn-gy	1.74														
	P	MDST, brn-gy	2.72	430	105	166	.05	2860									
	P	MDST, gn-gy	.88														
1529	Ctgs	MDST, gn-gy+ 30% MDST, brn-gy	.85														
	P	MDST, gn-gy	.59														
	P	MDST, brn-gy	2.58	430	103	213	.10	2660									
1550	Ctgs	MDST, gn-gy+ 20% MDST, brn-gy	.72														

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2A

GENERAL DATA			CHEMICAL ANALYSIS DATA														
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION								
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %OC	EXTR. %EX	ALK. %HC			
1571	Ctgs	MDST, gn-gy+ 10% MDST, mod brn+ tr MDST, brn-gy + tr SST	.45														
1589	Ctgs	MDST, gn-gy+ tr MDST, brn-gy+ tr MDST, yel-gy	.47														
1590.0	Swc	MDST, dk gn-gy	.52														
1610	Ctgs	MDST, gn-gy+ mnr MDST, brn-gy+ mnr SST	.49														
1631	Ctgs	MDST, gn-gy+ tr MDST, brn-gy+ tr SST	.48														
1649	Ctgs	MDST, gn-gy+ tr MDST, yel-gy	.79														
1650.0	Swc	MDST, dk gn-gy	1.33														
1670	Ctgs	MDST, gn-gy+ 30% MDST, brn-gy+ mnr MDST, lt ol-gy	1.06														
	P	MDST, brn-gy	2.70	429	120	151	.04	3240									
1691	Ctgs	MDST, gn-gy+ 30% MDST, ol-gy+ tr MDST, lt ol-gy	1.10														
1709	Ctgs	MDST, gn-gy+ 20% MDST, mod brn+ tr MDST, lt ol-gy	.66														
	P	MDST, mod brn	.23														
1730	Ctgs	MDST, mod brn+ 10% MDST, gn-gy+ tr MDST, yel-gy	.44														
	P	MDST, gn-gy	.65														
1750.0	Swc	MDST, med gy	1.06														
1751	Ctgs	MDST, med gy+ 40% MDST, mod brn+ tr pyr	.92														
	P	MDST, med gy	1.39														
	P	MDST, mod brn	.33														
1769	Ctgs	MDST, med gy+ 30% MDST, med-lt gy+ 10% MDST, mod brn+ mnr SST	1.14														
1790	Ctgs	MDST, dk gy+ 30% MDST, med-dk gy+ tr MDST, mod brn+ tr SST	.09														
1811	Ctgs	MDST, med-lt gy+ 20% MDST, med-dk gy+ mnr MDST, mod brn	.67														
	P	MDST, med-dk gy	.82														
1825.0	Swc	MDST, brn-gy	.30														

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2B

GENERAL DATA			CHEMICAL ANALYSIS DATA														
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION								
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %OC	EX %EX	ALK. %HC			
1829	Ctgs	MDST, med-lt gy+ 30% MDST, med-dk gy+ tr CALT	.41														
	P	MDST, med-dk gy	.61														
1850	Ctgs	MDST, med-dk gy+ 20% MDST, med gy+ tr CALT+ tr SST+ tr pyr	.35														
1871	Ctgs	MDST, med-dk gy+ tr CALT + tr SST	.62														
1889	Ctgs	MDST, med-dk gy+ tr SST	.73														
1910	Ctgs	MDST, med-dk gy+ 10% SND + tr CALT+ tr pyr	.82	424	43	74	.17	350									
1920.0	Swc	SST, v lt gy+ 20% MDST, brn-gy	.40														
1931	Ctgs	SND+ 30% MDST, med-dk gy + 10% SST, wht+ mnr SH, ol-gy	.41														
	P	MDST, med-dk gy	.99	426	47	49	.19	470									
1949	Ctgs	SND+ 20% MDST, med-dk gy + 10% SST, wht+ mnr SH, brn-gy+ mnr SH, ol-gy	.22														
	P	MDST, med-dk gy	.96														
1970	Ctgs	SND+ 20% MDST, med-dk gy + 10% SST, wht+ mnr MDST mod brn+ mnr SH, ol-gy	.35														
	P	MDST, med-dk gy	1.06	427	28	44	.25	300									
1991	Ctgs	SND+ 20% MDST, med-dk gy + 10% SST, wht+ mnr SH, ol-gy+ mnr MDST, mod brn	.31														
	P	MDST, med-dk gy	.86	426	37	77	.18	320									
2005.0	Swc	MDST, dk gn-gy	1.29														
2009	Ctgs	MDST, med-dk gy+ 10% MDST, ol-gy+ mnr MDST, mod brn+ mnr SST+ mnr SND	.89	422	46	137	.16	410									
2030	Ctgs	MDST, med-dk gy+ tr MDST mod brn+ tr SST+ tr pyr	.73														
2051	Ctgs	MDST, med-dk gy+ mnr MDST, mod brn+ tr MDST, yel-gy	.72														
2090	Ctgs	MDST, med gy+ 20% LST, pnk-gy+ mnr MDST, gy-brn + mnr SND+ tr pyr	.52														
	P	MDST, med gy	.58														
2150.0	Swc	MDST, med gy	.80														

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2C

GENERAL DATA			CHEMICAL ANALYSIS DATA														
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION								
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %OOC	EX %EX	ALK. %HC			
2170	Ctgs	MDST, med-dk gy+ mnr LST pnk-gy	.73														
2210	Ctgs	MDST, med-dk gy+ 40% MDST, mod brn, calc+ tr LST, pnk-gy	.42														
	P	MDST, med-dk gy	.61														
	P	MDST, mod brn, calc	.25														
2250	Ctgs	MDST, med-dk gy+ mnr MDST, mod brn, calc	.49														
2290	Ctgs	MDST, med-dk gy+ tr LST, pnk-gy+ tr MDST, mod brn calc+ tr MDST, pal yel-brn	.62	416	45	432	.50	280									
2330	Ctgs	MDST, med-dk gy+ mnr SST wht, glc+ tr MDST, lt gy + tr MDST, pal yel-brn	.61														
2370	Ctgs	MDST, med-dk gy+ tr MDST pal yel-brn	.59														
2400.0	Swc	MDST, med gy	.59														
2410	Ctgs	MDST, med-dk gy+ tr MDST pal yel-brn+ tr LST, v lt gy	.66														
2450	Ctgs	MDST, med-dk gy+ tr SLTST, v lt gy	.73														
2490	Ctgs	MDST, med-dk gy+ tr MDST dk gy+ tr LST, pal yel-brn	.93	425	44	146	.16	410									
2530	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn+ tr HAL	.91														
2570	Ctgs	MDST, med-dk gy+ tr MDST dk gy+ tr LST, yel-gy	.68														
2610	Ctgs	MDST, med-dk gy+ tr LST, yel-gy	.79														
2650	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn+ tr SST	.82	424	51	244	.18	420									
2690	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn	.57														
2720	Ctgs	MDST, med-dk gy, calc+ 30% MDST, lt gy, sndy	.57														
	P	MDST, med-dk gy, calc	.87	426	40	160	.19	350									
	P	MDST, lt gy, sndy	.23														
2740	Ctgs	MDST, lt gy, sndy+ 10% MDST, med-dk gy, calc	.33														
	P	MDST, med-dk gy, calc	.68														

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2D

GENERAL DATA			CHEMICAL ANALYSIS DATA														
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION								
				Tmax °C	HI	OI	PI	POT. YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %OC	ALK. %EX	ALK. %HC			
2760	Ctgs	MDST, med-dk gy+ 20% MDST, lt gy, sndy+ tr MDST, gy-blk	.68														
	P	MDST, med-dk gy	.92	429	40	141	.16	370									
2780	Ctgs	MDST, dk gy+ 10% MDST, lt gy, sndy	.98														
2800	Ctgs	MDST, dk gy+ 10% MDST, v lt gy, sndy	1.04	425	36	240	.24	370									
	P	MDST, dk gy	1.04														
2820	Ctgs	MDST, dk gy+ 10% MDST, v lt gy, sndy	1.06	427	86	172	.27	910									
	P	MDST, dk gy	.32														
	P	MDST, v lt gy, sndy	1.42														
2840	Ctgs	SH, gy-blk+ mnr LST, v lt gy	5.22														
	P	SH, gy-blk	5.85	430	518	10	.06	30300									
2860	Ctgs	SH, gy-blk+ tr LST, v lt gy+ tr MDST, mod brn	5.65	432	462	16	.07	26100									
2860.0	Swc	MDST, med-dk gy	4.80	432	407	12	.11	19550	5200	3645	10.8	76	70	59			
2880	Ctgs	SH, gy-blk+ tr LST, v lt gy+ tr MDST, mod brn	4.97														
	P	SH, gy-blk	5.38	431	444	13	.08	23870	5000	2850	9.3	53	57	58			
2890.0	Swc	MDST, med gy	4.73	435	360	22	.12	17020	6060	4140	12.8	88	68	63			
2900	Ctgs	SH, gy-blk+ tr LST, v lt gy	5.33	433	433	16	.09	23100									
2910.0	Swc	MDST, med-dk gy	7.42	433	381	13	.13	28280	9170	6005	12.4	81	66	59			
	Swc	After extraction	7.26	433	371	9	.01	26900									
2920	Ctgs	SH, gy-blk	10.30	432	479	7	.11	49310	11065	7460	10.7	72	67	53			
	Ctgs	After extraction	9.78	437	511	9	.01	49950									
2940	Ctgs	SH, gy-blk	8.44	433	449	9	.12	37930									
2960	Ctgs	SH, gy-blk	7.01	433	426	11	.12	29880									
2980	Ctgs	SH, gy-blk	7.91	434	372	9	.12	29420	8115	5170	10.3	65	64	57			
	Ctgs	After extraction	7.10	436	409	14	.01	29060									
3000	Ctgs	SH, gy-blk	6.46	435	393	12	.12	25410									
3000.0	Swc	MDST, med-dk gy	7.27	432	318	14	.15	23090	9635	6245	13.3	86	65	56			
	Swc	After extraction	6.94	432	335	13	.01	23230									
3020	Ctgs	SH, gy-blk+ tr pyr	6.13														

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2E

GENERAL DATA			CHEMICAL ANALYSIS DATA												
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION						
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %OC	EX %EX	ALK. %HC	
3020	P	SH, gy-blk	9.06	432	404	7	.11	36580							
	P	After extraction	8.38	438	453	10	.01	37920							
3040	Ctgs	SH, gy-blk	5.05	430	427	9	.14	21550							
3060	Ctgs	SH, gy-blk	5.16	430	358	11	.14	18450							
3080	Ctgs	SH, gy-blk+ tr LST, v lt gy	5.82	434	314	9	.12	18270	4680	2965	8.0	51	63	50	
3100	Ctgs	SND+ 30% SH, dk gy+ tr pyr	1.66												
	P	SH, dk gy	5.51	430	367	37	.15	20230							
3100.0	Swc	MDST, dk gy	5.78	438	70	31	.20	4060	3285	1435	5.7	25	44	53	
	Swc	After extraction	4.56	437	87	40	.05	3990							
3110.0	Swc	MDST, dk gy	3.61	440	110	39	.18	3970							
3130	Ctgs	CMT+ 20% SH, dk gy+ tr SND	-												
	P	SH, dk gy	3.80	430	273	27	.14	10380							
3160	Ctgs	SND+ 30% MDST, ol-blk, slty+ 10% CMT+ mnr MDST, pal yel-brn	1.07												
	P	MDST, ol-blk, slty	2.44	433	107	59	.32	2620							
3190	Ctgs	SND+ 30% MDST, dsk yel-brn, slty+ mnr CMT	1.36												
	P	MDST, dsk yel-brn, slty	1.98												
3220	Ctgs	MDST, dsk yel-brn, slty + 30% SND+ mnr CMT	1.34												
	P	MDST, dsk yel-brn, slty	1.96	437	274	37	.14	5380							
3240.0	Swc	MDST, med gy	2.13	444	155	28	.19	3300							
3250	Ctgs	MDST, dsk yel-brn, slty + 30% SND+ mnr CMT	1.57												
	P	MDST, dsk yel-brn, slty	2.19												
3280	Ctgs	MDST, dsk yel-brn, slty + 30% SND+ tr MDST, pal yel-brn	1.58												
	P	MDST, dsk yel-brn, slty	2.65	438	249	30	.16	6590							
3280.0	Swc	MDST, med-dk gy	6.30	441	217	7	.15	13650	6000	3670	9.5	58	61	50	
	Swc	After extraction	5.50	444	242	4	.01	13320							
3310	Ctgs	SH, gy-blk+ tr SND	4.77	436	295	30	.19	14070	6875	4345	14.4	91	63	58	
	Ctgs	After extraction	4.50	444	263	43	.01	11820							

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2F

GENERAL DATA			CHEMICAL ANALYSIS DATA											
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION					
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC		ALK.
					%OC	%EX	%HC							
3340	Ctgs	SH, gy-blk+ mnr SND+ tr CMT	2.13											
	P	SH, gy-blk	5.05	438	423	21	.16	21340						
3370	Ctgs	SND+ 30% MDST, dk gy+ tr CMT	.79											
	P	MDST, dk gy	2.55	439	293	49	.15	7460						
3400	Ctgs	SH, gy-blk+ 20% SND+ tr CMT	1.80											
	P	SH, gy-blk	4.25	438	328	18	.11	13950						
3430	Ctgs	SH, gy-blk+ 10% SND+ tr CMT	2.86	439	111	91	.21	3180						
	P	SH, gy-blk	3.95	440	119	44	.19	4720						
3430.0	Swc	MDST, med-dk gy	3.72	443	92	80	.21	3430						
3438.0	Swc	COAL	47.40	453	113	7	.20	53580						
3443.5	Swc	COAL	78.85	454	127	10	.14	100370						
3460	Ctgs	SND+ 20% SH, gy-blk+ 10% MDST, pal yel-brn, slty	1.65											
	P	SH, gy-blk	8.06	440	195	15	.13	15680						
3490	Ctgs	SND+ 30% SH, gy-blk+ 30% MDST, med gy, slty	3.10											
	P	SH, gy-blk	14.00	447	207	9	.11	28930						
3510.0	Swc	MDST, med-lt gy	4.30	451	78	28	.23	3360						
3520	Ctgs	SST+ 40% MDST, med gy, slty+ 10% SH, gy-blk	1.81											
	P	SH, gy-blk	14.40	447	220	12	.11	31720						
3550	Ctgs	SND+ mnr MDST, dk gy+ mnr CALT+ tr SH, gy-blk	.46											
3580	Ctgs	SND+ 20% SH, dk gy+ tr MDST, pal yel-brn	.63											
	P	SH, dk gy	5.20	441	145	25	.15	7550						
3580.0	Swc	SST, lt gy+ mnr COAL	-						1160	515			45	43
3589.0	Swc	SST, lt gy+ 30% MDST, gy-blk	-						740	325			44	41
3610	Ctgs	SND+ mnr MDST, dk gy+ mnr MDST, gy-blk	.30											
3629.5	Swc	SST, lt gy	-						60					
3640	Ctgs	SND+ 10% MDST, dk gy+ mnr CALT+ mnr MDST, v lt gy	.62											
3648.0	Swc	MDST, med-dk gy, sndy	-						400	210			52	52

SUMMARY OF CHEMICAL ANALYSIS DATA
TABLE : 2G

GENERAL DATA			CHEMICAL ANALYSIS DATA																			
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION													
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %OC	EX %EX	ALK. %HC								
3657.0	Swc	SST, lt gy	-																			
3670	Ctgs	SND+ 20% SH, dk gy+ 10% MDST, v lt gy, slty	.45																			
	P	SH, dk gy	2.02	439	137	52	.18	2770														
3700	Ctgs	SND+ 10% MDST, v lt gy, slty+ mnr MDST, dk gy+ tr CMT	.49																			
3730	Ctgs	SND+ 30% MDST, v lt gy, slty+ mnr MDST, dk gy	.23																			
3760	Ctgs	SND+ 10% MDST, v lt gy, slty+ tr MDST, dk gy	.29																			
3790	Ctgs	SND+ 30% MDST, v lt gy, slty+ mnr MDST, dk gy	.68																			
3820	Ctgs	SND+ 20% MDST, dk gy+ 10% MDST, v lt gy, slty	.33																			
3850	Ctgs	SND+ 20% MDST, dk gy+ mnr MDST, v lt gy, slty + tr CMT	.36																			
3880	Ctgs	SH, dk gy+ 30% SND+ tr MDST, v lt gy, slty	.76																			
	P	SH, dk gy	1.28	442	29	102	.37	370														
3910	Ctgs	SND+ 30% SH, dk gy+ mnr MDST, lt ol-gy	.33																			
	P	SH, dk gy	1.48	444	50	63	.24	740														
3940	Ctgs	SND+ 10% MDST, dk gy+ mnr MDST, v lt gy, slty	.27																			
3970	Ctgs	SND+ tr MDST, dk gy+ tr CALT	.20																			
4000	Ctgs	SND+ 20% SH, gy-blk, carb+ 10% MDST, dk gy+ mnr MDST, v lt gy, slty	1.87																			
	P	SH, gy-blk, carb	31.90	458	112	1	.10	35680														
4040	Ctgs	SND+ 10% SH, gy-blk, carb+ mnr MDST, dk gy+ tr CALT	.86																			
	P	SH, gy-blk, carb	36.80	456	168	9	.10	61920														

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2H

GENERAL DATA			CHEMICAL ANALYSIS DATA										
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS									
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3		
1050	Ctgs	MDST, lt ol-gy, slty+ tr SND	1.93										
1090	Ctgs	MDST, lt ol-gy, slty+ tr SND	1.96										
1130	Ctgs	MDST, lt ol-gy, slty+ tr SND	1.86										
1170	Ctgs	MDST, lt ol-gy, slty+ tr SST	1.57										
1210	Ctgs	SLTST, lt ol-gy	1.38										
1250	Ctgs	MDST, ol-gy, slty+ 20% MDST, lt ol-gy, slty+ tr SND	1.33										
1290	Ctgs	MDST, ol-gy, slty+ tr MDST, lt ol-gy, slty	1.55										
1330	Ctgs	MDST, ol-gy, slty+ tr MDST, lt ol-gy, slty+ tr SST+ tr glc	1.63										
1370	Ctgs	MDST, ol-gy, slty+ mnr MDST, lt ol-gy, slty+ tr foss+ tr SND+ tr glc	1.95										
1409	Ctgs	MDST, ol-gy, slty+ tr SST	2.26										
1430	Ctgs	MDST, ol-blk, slty+ 20% MDST, ol-gy, slty+ mnr MDST, lt ol-gy, slty+ tr SST+ tr LST brn-blk	2.43										
1451	Ctgs	MDST, ol-blk, slty+ tr LST, brn-blk+ tr LST, yel-gy	2.92										
1469	Ctgs	MDST, ol-blk, slty+ tr SND	2.80										
1490	Ctgs	MDST, ol-blk, slty+ mnr LST, brn-blk	2.73										
1511	Ctgs	MDST, brn-gy+ 30% MDST, gn-gy	1.74										
	P	MDST, brn-gy	2.72	150	2860	4520	105	166	.05	430		.63	
	P	MDST, gn-gy	.88										
1529	Ctgs	MDST, gn-gy+ 30% MDST, brn-gy	.85										
	P	MDST, gn-gy	.59										
	P	MDST, brn-gy	2.58	310	2660	5490	103	213	.10	430		.48	
1550	Ctgs	MDST, gn-gy+ 20% MDST, brn-gy	.72										
1571	Ctgs	MDST, gn-gy+ 10% MDST, mod brn + tr MDST, brn-gy+ tr SST	.45										
1589	Ctgs	MDST, gn-gy+ tr MDST, brn-gy+ tr MDST, yel-gy	.47										
1590.0	Swc	MDST, dk gn-gy	.52										
1610	Ctgs	MDST, gn-gy+ mnr MDST, brn-gy + mnr SST	.49										
1631	Ctgs	MDST, gn-gy+ tr MDST, brn-gy+ tr SST	.48										

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3A

GENERAL DATA			CHEMICAL ANALYSIS DATA									
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	P Y R O L Y S I S								
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3	
1649	Ctgs	MDST, gn-gy+ tr MDST, yel-gy	.79									
1650.0	Swc	MDST, dk gn-gy	1.33									
1670	Ctgs	MDST, gn-gy+ 30% MDST, brn-gy + mnr MDST, lt ol-gy	1.06									
	P	MDST, brn-gy	2.70	150	3240	4070	120	151	.04	429	.80	
1691	Ctgs	MDST, gn-gy+ 30% MDST, ol-gy+ tr MDST, lt ol-gy	1.10									
1709	Ctgs	MDST, gn-gy+ 20% MDST, mod brn + tr MDST, lt ol-gy	.66									
	P	MDST, mod brn	.23									
1730	Ctgs	MDST, mod brn+ 10% MDST, gn-gy + tr MDST, yel-gy	.44									
	P	MDST, gn-gy	.65									
1750.0	Swc	MDST, med gy	1.06									
1751	Ctgs	MDST, med gy+ 40% MDST, mod brn+ tr pyr	.92									
	P	MDST, med gy	1.39									
	P	MDST, mod brn	.33									
1769	Ctgs	MDST, med gy+ 30% MDST, med-lt gy+ 10% MDST, mod brn+ mnr SST	1.14									
1790	Ctgs	MDST, dk gy+ 30% MDST, med-dk gy+ tr MDST, mod brn+ tr SST	.09									
1811	Ctgs	MDST, med-lt gy+ 20% MDST, med-dk gy+ mnr MDST, mod brn	.67									
	P	MDST, med-dk gy	.82									
1825.0	Swc	MDST, brn-gy	.30									
1829	Ctgs	MDST, med-lt gy+ 30% MDST, med-dk gy+ tr CALT	.41									
	P	MDST, med-dk gy	.61									
1850	Ctgs	MDST, med-dk gy+ 20% MDST, med gy+ tr CALT+ tr SST+ tr pyr	.35									
1871	Ctgs	MDST, med-dk gy+ tr CALT+ tr SST	.62									
1889	Ctgs	MDST, med-dk gy+ tr SST	.73									
1910	Ctgs	MDST, med-dk gy+ 10% SND+ tr CALT+ tr pyr	.82	70	350	610	43	74	.17	424	.57	
1920.0	Swc	SST, v lt gy+ 20% MDST, brn-gy	.40									

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3B

GENERAL DATA			CHEMICAL ANALYSIS DATA										
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS									
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3		
1931	Ctgs	SND+ 30% MDST, med-dk gy+ 10% SST, wht+ mnr SH, ol-gy	.41										
	P	MDST, med-dk gy	.99	110	470	490	47	49	.19	426	.96		
1949	Ctgs	SND+ 20% MDST, med-dk gy+ 10% SST, wht+ mnr SH, brn-gy+ mnr SH, ol-gy	.22										
	P	MDST, med-dk gy	.96										
1970	Ctgs	SND+ 20% MDST, med-dk gy+ 10% SST, wht+ mnr MDST, mod brn+ mnr SH, ol-gy	.35										
	P	MDST, med-dk gy	1.06	100	300	470	28	44	.25	427	.64		
1991	Ctgs	SND+ 20% MDST, med-dk gy+ 10% SST, wht+ mnr SH, ol-gy+ mnr MDST, mod brn	.31										
	P	MDST, med-dk gy	.86	70	320	660	37	77	.18	426	.48		
2005.0	Swc	MDST, dk gn-gy	1.29										
2009	Ctgs	MDST, med-dk gy+ 10% MDST, ol-gy+ mnr MDST, mod brn+ mnr SST+ mnr SND	.89	80	410	1220	46	137	.16	422	.34		
2030	Ctgs	MDST, med-dk gy+ tr MDST, mod brn+ tr SST+ tr pyr	.73										
2051	Ctgs	MDST, med-dk gy+ mnr MDST, mod brn+ tr MDST, yel-gy	.72										
2090	Ctgs	MDST, med gy+ 20% LST, pnk-gy + mnr MDST, gy-brn+ mnr SND+ tr pyr	.52										
	P	MDST, med gy	.58										
2150.0	Swc	MDST, med gy	.80										
2170	Ctgs	MDST, med-dk gy+ mnr LST, pnk-gy	.73										
2210	Ctgs	MDST, med-dk gy+ 40% MDST, mod brn, calc+ tr LST, pnk-gy	.42										
	P	MDST, med-dk gy	.61										
	P	MDST, mod brn, calc	.25										
2250	Ctgs	MDST, med-dk gy+ mnr MDST, mod brn, calc	.49										
2290	Ctgs	MDST, med-dk gy+ tr LST, pnk-gy+ tr MDST, mod brn, calc + tr MDST, pal yel-brn	.62	280	280	2680	45	432	.50	416	.10		
2330	Ctgs	MDST, med-dk gy+ mnr SST, wht, glc+ tr MDST, lt gy+ tr MDST, pal yel-brn	.61										
2370	Ctgs	MDST, med-dk gy+ tr MDST, pal yel-brn	.59										

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3C

GENERAL DATA			CHEMICAL ANALYSIS DATA									
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	P Y R O L Y S I S								
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3	
2400.0	Swc	MDST, med gy	.59									
2410	Ctgs	MDST, med-dk gy+ tr MDST, pal yel-brn+ tr LST, v lt gy	.66									
2450	Ctgs	MDST, med-dk gy+ tr SLTST, v lt gy	.73									
2490	Ctgs	MDST, med-dk gy+ tr MDST, dk gy+ tr LST, pal yel-brn	.93	80	410	1360	44	146	.16	425		.30
2530	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn+ tr HAL	.91									
2570	Ctgs	MDST, med-dk gy+ tr MDST, dk gy+ tr LST, yel-gy	.68									
2610	Ctgs	MDST, med-dk gy+ tr LST, yel-gy	.79									
2650	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn+ tr SST	.82	90	420	2000	51	244	.18	424		.21
2690	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn	.57									
2720	Ctgs	MDST, med-dk gy, calc+ 30% MDST, lt gy, sndy	.57									
	P	MDST, med-dk gy, calc	.87	80	350	1390	40	160	.19	426		.25
	P	MDST, lt gy, sndy	.23									
2740	Ctgs	MDST, lt gy, sndy+ 10% MDST, med-dk gy, calc	.33									
	P	MDST, med-dk gy, calc	.68									
2760	Ctgs	MDST, med-dk gy+ 20% MDST, lt gy, sndy+ tr MDST, gy-blk	.68									
	P	MDST, med-dk gy	.92	70	370	1300	40	141	.16	429		.28
2780	Ctgs	MDST, dk gy+ 10% MDST, lt gy, sndy	.98									
2800	Ctgs	MDST, dk gy+ 10% MDST, v lt gy sndy	1.04	120	370	2500	36	240	.24	425		.15
	P	MDST, dk gy	1.04									
2820	Ctgs	MDST, dk gy+ 10% MDST, v lt gy sndy	1.06	340	910	1820	86	172	.27	427		.50
	P	MDST, dk gy	.32									
	P	MDST, v lt gy, sndy	1.42									
2840	Ctgs	SH, gy-blk+ mnr LST, v lt gy	5.22									
	P	SH, gy-blk	5.85	2060	30300	580	518	10	.06	430		52.24
2860	Ctgs	SH, gy-blk+ tr LST, v lt gy+ tr MDST, mod brn	5.65	2070	26100	920	462	16	.07	432		28.37
2860.0	Swc	MDST, med-dk gy	4.80	2380	19550	580	407	12	.11	432		33.71

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3D

GENERAL DATA			CHEMICAL ANALYSIS DATA										
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	P Y R O L Y S I S									
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3		
2880	Ctgs	SH, gy-blk+ tr LST, v lt gy+ tr MDST, mod brn	4.97										
	P	SH, gy-blk	5.38	2080	23870	720	444	13	.08	431	33.15		
2890.0	Swc	MDST, med gy	4.73	2410	17020	1050	360	22	.12	435	16.21		
2900	Ctgs	SH, gy-blk+ tr LST, v lt gy	5.33	2390	23100	860	433	16	.09	433	26.86		
2910.0	Swc	MDST, med-dk gy	7.42	4180	28280	1000	381	13	.13	433	28.28		
	Swc	After extraction	7.26	280	26900	670	371	9	.01	433	40.15		
2920	Ctgs	SH, gy-blk	10.30	6380	49310	700	479	7	.11	432	70.44		
	Ctgs	After extraction	9.78	310	49950	900	511	9	.01	437	55.50		
2940	Ctgs	SH, gy-blk	8.44	4930	37930	730	449	9	.12	433	51.96		
2960	Ctgs	SH, gy-blk	7.01	4180	29880	760	426	11	.12	433	39.32		
2980	Ctgs	SH, gy-blk	7.91	4050	29420	730	372	9	.12	434	40.30		
	Ctgs	After extraction	7.10	190	29060	970	409	14	.01	436	29.96		
3000	Ctgs	SH, gy-blk	6.46	3610	25410	750	393	12	.12	435	33.88		
3000.0	Swc	MDST, med-dk gy	7.27	4160	23090	990	318	14	.15	432	23.32		
	Swc	After extraction	6.94	320	23230	870	335	13	.01	432	26.70		
3020	Ctgs	SH, gy-blk+ tr pyr	6.13										
	P	SH, gy-blk	9.06	4380	36580	650	404	7	.11	432	56.28		
	P	After extraction	8.38	200	37920	870	453	10	.01	438	43.59		
3040	Ctgs	SH, gy-blk	5.05	3480	21550	450	427	9	.14	430	47.89		
3060	Ctgs	SH, gy-blk	5.16	2960	18450	590	358	11	.14	430	31.27		
3080	Ctgs	SH, gy-blk+ tr LST, v lt gy	5.82	2530	18270	550	314	9	.12	434	33.22		
3100	Ctgs	SND+ 30% SH, dk gy+ tr pyr	1.66										
	P	SH, dk gy	5.51	3450	20230	2050	367	37	.15	430	9.87		
3100.0	Swc	MDST, dk gy	5.78	1000	4060	1790	70	31	.20	438	2.27		
	Swc	After extraction	4.56	200	3990	1810	87	40	.05	437	2.20		
3110.0	Swc	MDST, dk gy	3.61	900	3970	1400	110	39	.18	440	2.84		
3130	Ctgs	CMT+ 20% SH, dk gy+ tr SND											
	P	SH, dk gy	3.80	1670	10380	1020	273	27	.14	430	10.18		
3160	Ctgs	SND+ 30% MDST, ol-blk, slty+ 10% CMT+ mnr MDST, pal yel-brn	1.07										
	P	MDST, ol-blk, slty	2.44	1240	2620	1450	107	59	.32	433	1.81		
3190	Ctgs	SND+ 30% MDST, dsk yel-brn, slty+ mnr CMT	1.36										
	P	MDST, dsk yel-brn, slty	1.98										

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3E

GENERAL DATA			CHEMICAL ANALYSIS DATA									
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	P Y R O L Y S I S								
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3	
3220	Ctgs	MDST, dsk yel-brn, slty+ 30% SND+ mnr CMT	1.34									
	P	MDST, dsk yel-brn, slty	1.96	910	5380	720	274	37	.14	437	7.47	
3240.0	Swc	MDST, med gy	2.13	750	3300	590	155	28	.19	444	5.59	
3250	Ctgs	MDST, dsk yel-brn, slty+ 30% SND+ mnr CMT	1.57									
	P	MDST, dsk yel-brn, slty	2.19									
3280	Ctgs	MDST, dsk yel-brn, slty+ 30% SND+ tr MDST, pal yel-brn	1.58									
	P	MDST, dsk yel-brn, slty	2.65	1270	6590	800	249	30	.16	438	8.24	
3280.0	Swc	MDST, med-dk gy	6.30	2400	13650	440	217	7	.15	441	31.02	
	Swc	After extraction	5.50	180	13320	240	242	4	.01	444	55.50	
3310	Ctgs	SH, gy-blk+ tr SND	4.77	3270	14070	1420	295	30	.19	436	9.91	
	Ctgs	After extraction	4.50	130	11820	1930	263	43	.01	444	6.12	
3340	Ctgs	SH, gy-blk+ mnr SND+ tr CMT	2.13									
	P	SH, gy-blk	5.05	4100	21340	1040	423	21	.16	438	20.52	
3370	Ctgs	SND+ 30% MDST, dk gy+ tr CMT	.79									
	P	MDST, dk gy	2.55	1280	7460	1250	293	49	.15	439	5.97	
3400	Ctgs	SH, gy-blk+ 20% SND+ tr CMT	1.80									
	P	SH, gy-blk	4.25	1770	13950	780	328	18	.11	438	17.88	
3430	Ctgs	SH, gy-blk+ 10% SND+ tr CMT	2.86	830	3180	2610	111	91	.21	439	1.22	
	P	SH, gy-blk	3.95	1090	4720	1730	119	44	.19	440	2.73	
3430.0	Swc	MDST, med-dk gy	3.72	930	3430	2960	92	80	.21	443	1.16	
3438.0	Swc	COAL	47.40	13010	53580	3390	113	7	.20	453	15.81	
3443.5	Swc	COAL	78.85	16290	100370	8140	127	10	.14	454	12.33	
3460	Ctgs	SND+ 20% SH, gy-blk+ 10% MDST, pal yel-brn, slty	1.65									
	P	SH, gy-blk	8.06	2360	15680	1230	195	15	.13	440	12.75	
3490	Ctgs	SND+ 30% SH, gy-blk+ 30% MDST, med gy, slty	3.10									
	P	SH, gy-blk	14.00	3590	28930	1260	207	9	.11	447	22.96	
3510.0	Swc	MDST, med-lt gy	4.30	1030	3360	1210	78	28	.23	451	2.78	
3520	Ctgs	SST+ 40% MDST, med gy, slty+ 10% SH, gy-blk	1.81									
	P	SH, gy-blk	14.40	3830	31720	1680	220	12	.11	447	18.88	
3550	Ctgs	SND+ mnr MDST, dk gy+ mnr CALT + tr SH, gy-blk	.46									

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3F

GENERAL DATA			CHEMICAL ANALYSIS DATA										
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS									
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3		
3580	Ctgs	SND+ 20% SH, dk gy+ tr MDST, pal yel-brn	.63										
	P	SH, dk gy	5.20	1300	7550	1280	145	25	.15	441	5.90		
3610	Ctgs	SND+ mnr MDST, dk gy+ mnr MDST gy-blk	.30										
3640	Ctgs	SND+ 10% MDST, dk gy+ mnr CALT + mnr MDST, v lt gy	.62										
3670	Ctgs	SND+ 20% SH, dk gy+ 10% MDST, v lt gy, slty	.45										
	P	SH, dk gy	2.02	610	2770	1050	137	52	.18	439	2.64		
3700	Ctgs	SND+ 10% MDST, v lt gy, slty+ mnr MDST, dk gy+ tr CMT	.49										
3730	Ctgs	SND+ 30% MDST, v lt gy, slty+ mnr MDST, dk gy	.23										
3760	Ctgs	SND+ 10% MDST, v lt gy, slty+ tr MDST, dk gy	.29										
3790	Ctgs	SND+ 30% MDST, v lt gy, slty+ mnr MDST, dk gy	.68										
3820	Ctgs	SND+ 20% MDST, dk gy+ 10% MDST v lt gy, slty	.33										
3850	Ctgs	SND+ 20% MDST, dk gy+ mnr MDST v lt gy, slty+ tr CMT	.36										
3880	Ctgs	SH, dk gy+ 30% SND+ tr MDST, v lt gy, slty	.76										
	P	SH, dk gy	1.28	220	370	1300	29	102	.37	442	.28		
3910	Ctgs	SND+ 30% SH, dk gy+ mnr MDST, lt ol-gy	.33										
	P	SH, dk gy	1.48	230	740	930	50	63	.24	444	.80		
3940	Ctgs	SND+ 10% MDST, dk gy+ mnr MDST v lt gy, slty	.27										
3970	Ctgs	SND+ tr MDST, dk gy+ tr CALT	.20										
4000	Ctgs	SND+ 20% SH, gy-blk, carb+ 10% MDST, dk gy+ mnr MDST, v lt gy slty	1.87										
	P	SH, gy-blk, carb	31.90	4130	35680	340	112	1	.10	458	104.9		
4040	Ctgs	SND+ 10% SH, gy-blk, carb+ mnr MDST, dk gy+ tr CALT	.86										
	P	SH, gy-blk, carb	36.80	6730	61920	3460	168	9	.10	456	17.90		

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3G

COMPANY: MOBIL NORWAY

WELL: 35/11-3

LOCATION: NORWEGIAN NORTH SEA

GENERAL DATA			AIRSPACE GASEOUS HYDROCARBON DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	RELATIVE GASEOUS HYDROCARBON COMP. ABUND. %					TOTAL ABUNDANCE (ppm)	TOTAL C2-C4 (%)	RATIO i-C4/ n-C4
			C1	C2	C3	i-C4	n-C4			
1050	Ctgs	MDST, lt ol-gy, slty+ tr SND	98.9	.6	.4	.3	.1	36791	1.1	3.0
1090	Ctgs	MDST, lt ol-gy, slty+ tr SND	98.3	.6	.6	.4	.1	8087	1.7	4.0
1130	Ctgs	MDST, lt ol-gy, slty+ tr SND	98.5	.6	.4	.4	.1	27674	1.5	4.0
1170	Ctgs	MDST, lt ol-gy, slty+ tr SST	98.5	.6	.5	.4	*	45974	1.5	
1210	Ctgs	SLTST, lt ol-gy	98.7	.6	.4	.3	*	52729	1.3	
1250	Ctgs	MDST, ol-gy, slty+ 20% MDST, lt ol-gy, slty+ tr SND	97.2	1.0	1.0	.7	.1	16554	2.8	7.0
1290	Ctgs	MDST, ol-gy, slty+ tr MDST lt ol-gy, slty	96.3	1.3	1.3	.9	.2	55271	3.7	4.5
1330	Ctgs	MDST, ol-gy, slty+ tr MDST lt ol-gy, slty+ tr SST+ tr glc	95.9	1.5	1.5	.8	.3	19024	4.1	2.7
1370	Ctgs	MDST, ol-gy, slty+ mnr MDST, lt ol-gy, slty+ tr foss+ tr SND+ tr glc	96.5	1.4	1.3	.6	.2	21688	3.5	3.0
1409	Ctgs	MDST, ol-gy, slty+ tr SST	97.2	1.3	1.0	.4	.1	65544	2.8	4.0
1430	Ctgs	MDST, ol-blk, slty+ 20% MDST, ol-gy, slty+ mnr MDST, lt ol-gy, slty+ tr SST+ tr LST, brn-blk	93.8	2.3	2.3	1.0	.6	12574	6.2	1.7
1451	Ctgs	MDST, ol-blk, slty+ tr LST brn-blk+ tr LST, yel-gy	97.2	1.4	.9	.3	.2	45121	2.8	1.5
1469	Ctgs	MDST, ol-blk, slty+ tr SND	97.3	1.5	.9	.1	.2	49837	2.7	.5
1490	Ctgs	MDST, ol-blk, slty+ mnr LST, brn-blk	97.6	1.4	.7	.2	.1	61280	2.4	2.0
1511	Ctgs	MDST, brn-gy+ 30% MDST, gn-gy	97.4	1.5	.8	.2	.1	44220	2.6	2.0
1529	Ctgs	MDST, gn-gy+ 30% MDST, brn-gy	97.3	1.5	.9	.2	.1	31840	2.7	2.0
1550	Ctgs	MDST, gn-gy+ 20% MDST, brn-gy	97.6	1.4	.7	.2	.1	25210	2.4	2.0
1571	Ctgs	MDST, gn-gy+ 10% MDST, mod brn+ tr MDST, brn-gy+ tr SST	97.6	1.4	.7	.2	.1	19760	2.4	2.0
1589	Ctgs	MDST, gn-gy+ tr MDST, brn-gy+ tr MDST, yel-gy	97.7	1.3	.7	.2	.1	18930	2.3	2.0
1610	Ctgs	MDST, gn-gy+ mnr MDST, brn-gy+ mnr SST	97.7	1.4	.6	.2	.1	22708	2.3	2.0
1631	Ctgs	MDST, gn-gy+ tr MDST, brn-gy+ tr SST	97.3	1.8	.6	.1	.2	25590	2.7	.5

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4A

GENERAL DATA			AIRSPACE GASEOUS HYDROCARBON DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	RELATIVE GASEOUS HYDROCARBON COMP. ABUND. %					TOTAL ABUNDANCE (ppm)	TOTAL C2-C4 (%)	RATIO i-C4/ n-C4
			C1	C2	C3	i-C4	n-C4			
1649	Ctgs	MDST, gn-gy+ tr MDST, yel-gy	97.6	1.7	.5	.1	.1	39720	2.4	1.0
1670	Ctgs	MDST, gn-gy+ 30% MDST, brn-gy+ mnr MDST, lt ol-gy	93.8	3.9	1.6	.4	.3	12827	6.2	1.3
1691	Ctgs	MDST, gn-gy+ 30% MDST, ol-gy+ tr MDST, lt ol-gy	94.4	4.1	1.2	.2	.1	28071	5.6	2.0
1709	Ctgs	MDST, gn-gy+ 20% MDST, mod brn+ tr MDST, lt ol-gy	95.8	3.1	.9	.1	.1	35567	4.2	1.0
1730	Ctgs	MDST, mod brn+ 10% MDST, gn-gy+ tr MDST, yel-gy	96.4	2.6	.7	.2	.1	46006	3.6	2.0
1751	Ctgs	MDST, med gy+ 40% MDST, mod brn+ tr pyr	90.9	5.4	3.2	.2	.4	37234	9.1	.5
1769	Ctgs	MDST, med gy+ 30% MDST, med-lt gy+ 10% MDST, mod brn+ mnr SST	80.7	9.9	7.3	.9	1.2	15079	19.3	.8
1790	Ctgs	MDST, dk gy+ 30% MDST, med-dk gy+ tr MDST, mod brn+ tr SST	83.1	7.4	6.5	1.0	2.0	24180	16.9	.5
1811	Ctgs	MDST, med-lt gy+ 20% MDST, med-dk gy+ mnr MDST, mod brn	76.8	9.0	9.4	1.5	3.3	27696	23.2	.5
1829	Ctgs	MDST, med-lt gy+ 30% MDST, med-dk gy+ tr CALT	76.0	7.4	10.4	1.5	4.7	12754	24.0	.3
1850	Ctgs	MDST, med-dk gy+ 20% MDST, med gy+ tr CALT+ tr SST+ tr pyr	78.7	6.7	7.9	2.1	4.6	14246	21.3	.5
1871	Ctgs	MDST, med-dk gy+ tr CALT+ tr SST	67.5	7.8	13.5	2.8	8.4	15008	32.5	.3
1889	Ctgs	MDST, med-dk gy+ tr SST	58.2	9.8	18.5	3.5	10.0	10231	41.8	.4
1910	Ctgs	MDST, med-dk gy+ 10% SND+ tr CALT+ tr pyr	56.1	9.7	19.5	3.4	11.3	7498	43.9	.3
1931	Ctgs	SND+ 30% MDST, med-dk gy+ 10% SST, wht+ mnr SH, ol-gy	65.7	10.2	15.1	2.2	6.8	6720	34.3	.3
1949	Ctgs	SND+ 20% MDST, med-dk gy+ 10% SST, wht+ mnr SH, brn-gy+ mnr SH, ol-gy	59.2	9.8	18.1	2.0	10.9	1582	40.8	.2
1970	Ctgs	SND+ 20% MDST, med-dk gy+ 10% SST, wht+ mnr MDST, mod brn+ mnr SH, ol-gy	58.7	8.9	16.6	4.0	11.7	3658	41.3	.3
1991	Ctgs	SND+ 20% MDST, med-dk gy+ 10% SST, wht+ mnr SH, ol-gy+ mnr MDST, mod brn	59.3	8.3	20.6	3.2	8.6	1588	40.7	.4
2009	Ctgs	MDST, med-dk gy+ 10% MDST, ol-gy+ mnr MDST, mod brn+ mnr SST+ mnr SND	74.7	7.1	12.3	2.0	3.9	2055	25.3	.5

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4B

GENERAL DATA			AIRSPACE GASEOUS HYDROCARBON DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	RELATIVE GASEOUS HYDROCARBON COMP. ABUND. %					TOTAL ABUNDANCE (ppm)	TOTAL C2-C4 (%)	RATIO i-C4/ n-C4
			C1	C2	C3	i-C4	n-C4			
2030	Ctgs	MDST, med-dk gy+ tr MDST, mod brn+ tr SST+ tr pyr	68.1	11.3	12.6	3.0	5.0	1182	31.9	.6
2051	Ctgs	MDST, med-dk gy+ mnr MDST, mod brn+ tr MDST, yel-gy	54.9	10.8	18.8	4.9	11.0	1071	45.1	.4
2090	Ctgs	MDST, med gy+ 20% LST, pnk-gy+ mnr MDST, gy-brn+ mnr SND+ tr pyr	4.8	7.5	32.5	8.3	36.9	6585	95.2	.2
2130	Ctgs		6.9	1.3	2.0	33.2	56.6	2710	93.1	.6
2170	Ctgs	MDST, med-dk gy+ mnr LST, pnk-gy	24.5	12.9	36.2	5.3	21.1	13135	75.5	.3
2210	Ctgs	MDST, med-dk gy+ 40% MDST, mod brn, calc+ tr LST, pnk-gy	1.9	2.4	9.8	14.4	71.5	1135	98.1	.2
2250	Ctgs	MDST, med-dk gy+ mnr MDST, mod brn, calc	30.6	12.4	28.8	8.3	19.9	10110	69.4	.4
2290	Ctgs	MDST, med-dk gy+ tr LST, pnk-gy+ tr MDST, mod brn, calc+ tr MDST, pal yel-brn	*						*	
2330	Ctgs	MDST, med-dk gy+ mnr SST, wht, glc+ tr MDST, lt gy+ tr MDST, pal yel-brn	67.3	8.4	17.2	2.9	4.2	1600	32.7	.7
2370	Ctgs	MDST, med-dk gy+ tr MDST, pal yel-brn	56.1	8.7	17.0	5.0	13.2	45	43.9	.4
2410	Ctgs	MDST, med-dk gy+ tr MDST, pal yel-brn+ tr LST, v lt gy	*						*	
2450	Ctgs	MDST, med-dk gy+ tr SLTST, v lt gy	52.8	10.7	19.2	8.0	9.3	790	47.2	.9
2490	Ctgs	MDST, med-dk gy+ tr MDST, dk gy+ tr LST, pal yel-brn	62.1	11.9	16.6	5.5	3.9	1090	37.9	1.4
2530	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn+ tr HAL	49.3	16.2	18.9	8.2	7.6	540	50.7	1.1
2570	Ctgs	MDST, med-dk gy+ tr MDST, dk gy+ tr LST, yel-gy	59.0	16.7	14.8	3.7	5.8	955	41.0	.6
2610	Ctgs	MDST, med-dk gy+ tr LST, yel-gy	38.4	12.4	28.9	8.7	11.6	625	61.6	.8
2650	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn+ tr SST	44.7	15.6	26.6	5.7	7.4	980	55.3	.8
2690	Ctgs	MDST, med-dk gy+ tr LST, pal yel-brn	31.9	12.5	42.9	5.7	70.0	145	68.1	.1
2720	Ctgs	MDST, med-dk gy, calc+ 30% MDST, lt gy, sndy	59.8	1.2	15.5	5.5	18.0	40	40.2	.3
2740	Ctgs	MDST, lt gy, sndy+ 10% MDST, med-dk gy, calc	50.7	9.6	21.0	4.6	14.1	830	49.3	.3

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4C

GENERAL DATA			AIRSPACE GASEOUS HYDROCARBON DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	RELATIVE GASEOUS HYDROCARBON COMP. ABUND. %					TOTAL ABUNDANCE (ppm)	TOTAL C2-C4 (%)	RATIO i-C4/ n-C4
			C1	C2	C3	i-C4	n-C4			
2760	Ctgs	MDST, med-dk gy+ 20% MDST, lt gy, sndy+ tr MDST, gy-blk	41.2	15.0	35.0	30.0	5.8	4160	58.8	5.2
2780	Ctgs	MDST, dk gy+ 10% MDST, lt gy, sndy	46.0	14.5	31.1	2.7	5.7	5230	54.0	.5
2800	Ctgs	MDST, dk gy+ 10% MDST, v lt gy, sndy	43.6	14.6	31.2	3.1	7.5	2320	56.4	.4
2820	Ctgs	MDST, dk gy+ 10% MDST, v lt gy, sndy	18.9	11.4	38.2	6.3	25.2	58785	81.1	.3
2840	Ctgs	SH, gy-blk+ mnr LST, v lt gy	19.4	20.3	41.5	3.8	15.0	82770	80.6	.3
2860	Ctgs	SH, gy-blk+ tr LST, v lt gy+ tr MDST, mod brn	26.8	19.2	35.8	3.6	14.6	128540	73.2	.2
2880	Ctgs	SH, gy-blk+ tr LST, v lt gy+ tr MDST, mod brn	24.3	17.2	38.3	3.8	16.4	89204	75.7	.2
2900	Ctgs	SH, gy-blk+ tr LST, v lt gy	28.3	14.9	35.7	3.6	17.5	114941	71.7	.2
2920	Ctgs	SH, gy-blk	37.8	15.8	31.2	2.6	12.6	250364	62.2	.2
2940	Ctgs	SH, gy-blk	37.9	15.9	32.2	2.4	11.6	242912	62.1	.2
2960	Ctgs	SH, gy-blk	30.5	16.2	36.8	2.9	13.7	194560	69.5	.2
2980	Ctgs	SH, gy-blk	28.7	16.7	37.9	2.9	13.8	207258	71.3	.2
3000	Ctgs	SH, gy-blk	27.0	17.2	38.9	3.0	13.9	127926	73.0	.2
3020	Ctgs	SH, gy-blk+ tr pyr	23.3	17.1	41.0	3.3	15.3	120788	76.7	.2
3040	Ctgs	SH, gy-blk	11.9	16.3	47.9	4.6	19.3	111584	88.1	.2
3060	Ctgs	SH, gy-blk	18.9	19.0	41.7	4.7	15.7	66919	81.1	.3
3080	Ctgs	SH, gy-blk+ tr LST, v lt gy	32.2	22.8	32.9	2.5	9.6	67272	67.8	.3
3100	Ctgs	SND+ 30% SH, dk gy+ tr pyr	26.9	21.6	30.5	3.6	17.4	30544	73.1	.2
3130	Ctgs	CMT+ 20% SH, dk gy+ tr SND	14.7	12.9	38.0	6.7	27.7	8197	85.3	.2
3160	Ctgs	SND+ 30% MDST, ol-blk, slty+ 10% CMT+ mnr MDST, pal yel-brn	16.6	14.5	39.7	8.6	20.6	32760	83.4	.4
3190	Ctgs	SND+ 30% MDST, dsk yel-brn slty+ mnr CMT	12.2	8.4	41.3	7.5	30.6	36610	87.8	.2
3220	Ctgs	MDST, dsk yel-brn, slty+ 30% SND+ mnr CMT	12.2	9.8	43.8	6.4	27.8	17477	87.8	.2
3250	Ctgs	MDST, dsk yel-brn, slty+ 30% SND+ mnr CMT	11.0	10.8	45.4	5.4	27.4	27695	89.0	.2
3280	Ctgs	MDST, dsk yel-brn, slty+ 30% SND+ tr MDST, pal yel-brn	9.1	9.6	53.5	5.1	22.7	67236	90.9	.2
3310	Ctgs	SH, gy-blk+ tr SND	24.2	18.8	38.6	3.4	15.0	110608	75.8	.2

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4D

GENERAL DATA			AIRSPACE GASEOUS HYDROCARBON DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	RELATIVE GASEOUS HYDROCARBON COMP. ABUND. %					TOTAL ABUNDANCE (ppm)	TOTAL C2-C4 (%)	RATIO i-C4/ n-C4
			C1	C2	C3	i-C4	n-C4			
3340	Ctgs	SH, gy-blk+ mnr SND+ tr CMT	20.7	16.9	36.8	4.2	21.4	32180	79.3	.2
3370	Ctgs	SND+ 30% MDST, dk gy+ tr CMT	20.7	13.4	36.1	6.1	23.7	59134	79.3	.3
3400	Ctgs	SH, gy-blk+ 20% SND+ tr CMT	21.9	23.9	36.6	3.7	13.9	49440	78.1	.3
3430	Ctgs	SH, gy-blk+ 10% SND+ tr CMT	40.0	28.4	24.1	2.2	5.3	51679	60.0	.4
3460	Ctgs	SND+ 20% SH, gy-blk+ 10% MDST, pal yel-brn, slty	79.1	15.6	4.5	.3	.5	160959	20.9	.6
3490	Ctgs	SND+ 30% SH, gy-blk+ 30% MDST, med gy, slty	83.5	12.9	2.9	.2	.5	241382	16.5	.4
3520	Ctgs	SST+ 40% MDST, med gy, slty+ 10% SH, gy-blk	71.8	18.5	7.1	1.2	1.4	27856	28.2	.9
3550	Ctgs	SND+ mnr MDST, dk gy+ mnr CALT+ tr SH, gy-blk	61.4	21.4	13.1	1.5	2.6	28066	38.6	.6
3580	Ctgs	SND+ 20% SH, dk gy+ tr MDST, pal yel-brn	28.4	34.6	26.5	3.8	6.7	1485	71.6	.6
3610	Ctgs	SND+ mnr MDST, dk gy+ mnr MDST, gy-blk	41.4	31.3	20.2	2.2	4.9	3726	58.6	.4
3640	Ctgs	SND+ 10% MDST, dk gy+ mnr CALT+ mnr MDST, v. lt gy	52.8	29.1	13.6	1.6	2.7	31151	47.2	.6
3670	Ctgs	SND+ 20% SH, dk gy+ 10% MDST, v lt gy, slty	34.3	23.6	23.6	6.9	11.6	12142	65.7	.6
3700	Ctgs	SND+ 10% MDST, v lt gy, slty+ mnr MDST, dk gy+ tr CMT	35.8	25.2	24.5	4.7	9.8	12835	64.2	.5
3730	Ctgs	SND+ 30% MDST, v lt gy, slty+ mnr MDST, dk gy	50.6	23.6	17.4	3.3	5.1	8121	49.4	.6
3760	Ctgs	SND+ 10% MDST, v lt gy, slty+ tr MDST, dk gy	36.3	34.8	22.4	2.4	4.1	4155	63.7	.6
3790	Ctgs	SND+ 30% MDST, v lt gy, slty+ mnr MDST, dk gy	47.4	18.6	19.6	4.6	9.8	4369	52.6	.5
3820	Ctgs	SND+ 20% MDST, dk gy+ 10% MDST, v lt gy, slty	37.9	16.8	25.0	60.0	14.3	3937	62.1	4.2
3850	Ctgs	SND+ 20% MDST, dk gy+ mnr MDST, v lt gy, slty+ tr CMT	36.7	20.3	31.7	.1	8.2	4850	63.3	.0
3880	Ctgs	SH, dk gy+ 30% SND+ tr MDST, v lt gy, slty	46.0	19.8	24.9	3.3	60.0	6399	54.0	.1
3910	Ctgs	SND+ 30% SH, dk gy+ mnr MDST, lt ol-gy	35.9	16.5	24.1	6.8	16.7	2098	64.1	.4
3940	Ctgs	SND+ 10% MDST, dk gy+ mnr MDST, v lt gy, slty	31.9	20.1	29.5	6.2	12.3	1609	68.1	.5

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4E

COMPANY: MOBIL NORWAY

WELL: 35/11-3

LOCATION: NORWEGIAN NORTH SEA

GENERAL DATA			AIRSPACE GASEOUS HYDROCARBON DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	RELATIVE GASEOUS HYDROCARBON COMP. ABUND. %					TOTAL ABUNDANCE (ppm)	TOTAL C2-C4 (%)	RATIO i-C4/ n-C4
			C1	C2	C3	i-C4	n-C4			
3970	Ctgs	SND+ tr MDST, dk gy+ tr CALT	*						*	
4000	Ctgs	SND+ 20% SH, gy-blk, carb + 10% MDST, dk gy+ mn MDST, v lt gy, slty	*						*	
4040	Ctgs	SND+ 10% SH, gy-blk, carb + mn MDST, dk gy+ tr CALT	78.7	18.3	2.7	.3		54085	21.3	

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4F

COMPANY: MOBIL NORWAY

WELL: 35/11-3

LOCATION: NORWEGIAN NORTH SEA

SAMPLE DATA						
SAMPLE DEPTH (Mtrs) SAMPLE TYPE	2860.0 Swc	2880 Ctgs (P)	2890.0 Swc	2910.0 Swc	2920 Ctgs	2980 Ctgs

COMPONENTS	QUANTIFIED NORMAL AND ISOPRENOID ALKANE ABUNDANCES (%)					
	2860.0 Swc	2880 Ctgs (P)	2890.0 Swc	2910.0 Swc	2920 Ctgs	2980 Ctgs
n-C10						
n-C11						
n-C12						
n-C13						
n-C14	3.23	2.78	4.12	6.01	2.20	6.59
n-C15	5.63	4.61	6.31	8.16	5.66	7.64
n-C16	5.80	5.36	6.45	7.74	6.99	7.43
n-C17	6.68	6.72	7.54	8.27	8.49	7.53
n-C18	5.91	6.14	6.48	6.77	7.72	5.81
n-C19	5.75	5.93	6.15	5.40	7.06	5.92
n-C20	5.94	5.60	5.93	6.45	6.66	5.56
n-C21	4.81	4.80	4.61	5.56	5.35	4.43
n-C22	5.16	4.72	4.35	4.41	4.80	4.41
n-C23	4.87	4.59	4.05	4.12	4.61	3.79
n-C24	4.99	4.89	3.99	3.61	4.16	3.61
n-C25	4.39	4.80	3.62	3.80	3.43	3.18
n-C26	4.56	4.61	3.52	4.17	3.69	3.23
n-C27	3.10	3.36	2.76	1.80	2.14	2.15
n-C28	2.84	2.45	3.65	1.94	2.62	1.64
n-C29	2.72	3.30	2.40	1.21	1.35	1.94
n-C30	2.08	2.09	1.40	.87	1.44	1.62
n-C31	1.66	2.02	1.79	1.10	1.28	1.47
n-C32	1.35	1.34	1.30	.75	1.00	1.08
n-C33	1.21	1.29	1.37	.83	1.00	.92
n-C34	.75	1.21	1.28	.60	.60	.79
n-C35	.74	2.18	.89		.52	1.02
n-C36						
i-C15 (Farnesane)						
i-C16						
i-C18 (Norpristane)						
i-C19 (Pristane)	9.24	8.84	8.97	9.44	9.47	10.87
i-C20 (Phytane)	6.59	6.37	7.11	6.98	7.74	7.37

GENERAL DATA						
Total Abundance(%)	100	100	100	100	100	100
TOC (% of Rock)	4.80	5.38	4.73	7.42	10.30	7.91
Extract (ppm)	5200	5000	6060	9170	11065	8115
Hydrocarbons (ppm)	3645	2850	4140	6005	7460	5170
Hydrocarbon(mg/gTOC)	76	53	88	81	72	65
Alks(% Hydrocarbons)	59	58	63	59	53	57
Rock-Eval HI	407	444	360	381	479	372
Rock-Eval PI	.11	.08	.12	.13	.11	.12

RATIOS						
CPI-1	.98	1.11	.97	.91	.85	1.01
CPI-2	.96	1.12	.96	.88	.81	1.01
CPI-3	.84	.95	.77	.59	.68	.88
Bias	1.19	1.13	1.39	1.84	1.76	1.67
i-C19 / n-C17	1.38	1.32	1.19	1.14	1.12	1.44
i-C20 / n-C18	1.12	1.04	1.10	1.03	1.00	1.27
i-C19 / i-C20	1.40	1.39	1.26	1.35	1.22	1.47

LEGEND	
i - isoprenoid	n - normal
For definition of Ratios CPI-1,-2,-3 and Bias - see following page	

ALKANE GAS CHROMATOGRAPHY DATA

TABLE : 5A

SAMPLE DATA						
SAMPLE DEPTH (Mtrs) SAMPLE TYPE	3000.0 Swc	3020 Ctgs (P)	3080 Ctgs	3100.0 Swc	3280.0 Swc	3310 Ctgs

COMPONENTS	QUANTIFIED NORMAL AND ISOPRENOID ALKANE ABUNDANCES (%)					
	3000.0 Swc	3020 Ctgs (P)	3080 Ctgs	3100.0 Swc	3280.0 Swc	3310 Ctgs
n-C10						
n-C11						
n-C12						
n-C13						
n-C14	4.06	3.61	5.42	2.10	4.17	1.57
n-C15	7.04	6.24	6.66	4.61	6.79	5.09
n-C16	7.08	6.95	6.07	5.10	7.86	8.03
n-C17	7.67	8.07	6.48	6.22	8.51	9.47
n-C18	6.60	6.91	5.85	6.06	7.32	7.82
n-C19	5.90	6.19	5.51	6.33	6.79	8.00
n-C20	5.48	5.84	5.11	5.87	5.99	6.32
n-C21	4.29	4.60	4.57	5.71	5.30	5.22
n-C22	4.47	4.31	4.58	5.39	4.95	5.15
n-C23	3.83	3.95	4.73	5.48	4.72	4.69
n-C24	3.82	3.80	4.29	5.16	4.44	4.28
n-C25	3.46	3.80	4.20	5.22	3.96	4.06
n-C26	3.33	3.42	4.06	4.59	3.85	3.81
n-C27	2.20	2.29	3.74	4.06	3.26	3.44
n-C28	2.59	1.71	2.87	3.86	3.01	2.94
n-C29	1.88	1.94	3.34	3.37	2.61	3.02
n-C30	1.50	1.37	2.28	2.15	1.71	2.25
n-C31	1.55	1.42	2.03	2.21	1.60	2.17
n-C32	1.33	1.20	1.47	1.34	1.69	2.06
n-C33	1.31	1.27	1.50	1.27	1.35	1.08
n-C34	1.56	1.10	.98	1.15	1.34	1.34
n-C35	.89	.98		.97	.46	.75
n-C36						
i-C15 (Farnesane)						
i-C16						
i-C18 (Norpristane)						
i-C19 (Pristane)	10.31	10.87	9.66	7.45	5.72	5.00
i-C20 (Phytane)	7.86	8.17	4.60	4.32	2.58	2.43

GENERAL DATA						
Total Abundance(%)	100	100	100	100	100	100
TOC (% of Rock)	7.27	9.06	5.82	5.78	6.30	4.77
Extract (ppm)	9635	9000	4680	3285	6000	6875
Hydrocarbons (ppm)	6245	4815	2965	1435	3670	4345
Hydrocarbon(mg/gTOC)	86	53	51	25	58	91
Alks(% Hydrocarbons)	56	56	50	53	50	58
Rock-Eval HI	318	404	314	70	217	295
Rock-Eval PI	.15	.11	.12	.20	.15	.19

RATIOS						
CPI-1	.92	1.07	1.13	1.09	.99	1.00
CPI-2	.92	1.07	1.12	1.09	1.00	1.05
CPI-3	.74	.89	1.08	.96	.95	1.02
Bias	1.55	1.64	1.11	1.05	1.45	1.48
i-C19 / n-C17	1.34	1.35	1.49	1.20	.67	.53
i-C20 / n-C18	1.19	1.18	.79	.71	.35	.31
i-C19 / i-C20	1.31	1.33	2.10	1.72	2.22	2.06

LEGEND	
i - isoprenoid	n - normal
For definition of Ratios CPI-1,-2,-3 and Bias - see following page	

ALKANE GAS CHROMATOGRAPHY DATA

TABLE : 5B

COMPANY: MOBIL NORWAY

WELL: 35/11-3

LOCATION: NORWEGIAN NORTH SEA

SAMPLE DATA					
SAMPLE DEPTH (Mtrs)	3580.0	3589.0	3648.0		
SAMPLE TYPE	Swc	Swc	Swc		

COMPONENTS	QUANTIFIED NORMAL AND ISOPRENOID ALKANE ABUNDANCES (%)				
n-C10					
n-C11					
n-C12					
n-C13					
n-C14	.54				
n-C15	1.91	.17	.63		
n-C16	3.79	1.24	2.68		
n-C17	5.91	3.77	5.55		
n-C18	7.22	5.37	7.30		
n-C19	9.10	7.65	8.51		
n-C20	8.23	7.77	7.75		
n-C21	8.08	7.96	7.52		
n-C22	7.81	7.41	6.35		
n-C23	6.72	7.23	6.27		
n-C24	5.90	7.22	5.77		
n-C25	5.22	6.22	5.75		
n-C26	5.27	5.61	4.98		
n-C27	4.52	5.66	4.63		
n-C28	3.34	4.84	3.97		
n-C29	3.20	4.70	3.99		
n-C30	2.32	3.37	3.11		
n-C31	1.85	2.92	2.97		
n-C32	1.21	1.64	1.99		
n-C33	1.58	2.58	1.81		
n-C34	1.15	2.00	1.93		
n-C35	.84	1.30	1.27		
n-C36					
i-C15 (Farnesane)					
i-C16					
i-C18 (Norpristane)					
i-C19 (Pristane)	2.24	2.00	3.09		
i-C20 (Phytane)	2.06	1.37	2.19		

GENERAL DATA					
Total Abundance(%)	100	100	100		
TOC (% of Rock)	*	*	*		
Extract (ppm)	1160	740	400		
Hydrocarbons (ppm)	515	325	210		
Hydrocarbon(mg/gTOC)					
Alks(% Hydrocarbons)	43	41	52		
Rock-Eval HI					
Rock-Eval PI					

RATIOS					
CPI-1	1.07	1.12	1.08		
CPI-2	1.05	1.09	1.10		
CPI-3	1.05	1.08	1.03		
Bias	1.22	.79	1.01		
i-C19 / n-C17	.38	.53	.56		
i-C20 / n-C18	.29	.26	.30		
i-C19 / i-C20	1.09	1.46	1.41		

LEGEND					
i - isoprenoid	n - normal	For definition of Ratios CPI-1,-2,-3 and Bias - see following page			

ALKANE GAS CHROMATOGRAPHY DATA

TABLE : 5C

COMPANY: MOBIL NORWAY

WELL: 35/11-3

LOCATION: NORWEGIAN NORTH SEA

DEPTH (METRES)	1	2	3	4	5	6	7	8	9	10	11	12	13
3580	1.44	0.20	*	1.34	1.35	0.39	1.32	38	61	32/23/45	0.34	0.17	ND
3648	1.64	0.18	0.19	1.41	1.45	0.35	1.35	45	61	25/19/56	0.21	0.25	ND

Explanation of ratios:

- 1 C_{27} 18 α (H)-trisorneohopane/17 α (H)-trisorhopane (Ts/Tm) (m/e 191)
- 2 C_{30} 17 β (H)21 α (H)-moretane/17 α (H)21 β (H)-hopane (m/e 191)
- 3 C_{29} 17 β (H)21 α (H)-mormoretane/17 α (H)21 β (H)-norhopane (m/e 191)
- 4 22S/22R of C_{31} 17 α (H)21 β (H) homohopanes (m/e 191)
- 5 22S/22R of C_{32} 17 α (H)21 β (H) bishomohopanes (m/e 191)
- 6 C_{29} 17 β (H)-norhopane/ C_{29} 17 α (H)-norhopane + C_{30} 17 α (H)-norhopane (m/e 191)
- 7 C_{30} 17 α (H)21 β (H)-hopane (m/e 191)/total C_{29} steranes (m/e 217, m/e 218)
- 8 %20S of 5 α (H)14 α (H) 20R and 20S C_{29} steranes (m/e 217)
- 9 %5 α (H)14 β (H)17 β (H) 20S and 20R (m/e 218) of total C_{29} steranes (m/e 217), m/e 218)
- 10 Carbon number distribution of C_{27} , C_{28} and C_{29} 5 α (H)14 α (H)17 α (H) 20R steranes (m/e 217)
- 11 13 β (H)17 α 20S and 20R C_{29} diasteranes (m/e 259)/total C_{29} steranes (m/e 217, m/e 218)
- 12 C_{28} 18 α (H)21 β (H)-28,30-bisorhopane/ C_{30} 17 α (H)21 β (H)-hopane (m/e 191)
- 13 C_{29} 17 α (M)21 β (M)-25-norhopane (m/e 177)/ C_{30} 17 α (H)21 β (H)-hopane (m/e 191)
- * ratio not determined
- ND none detected

ALKANE GAS CHROMATOGRAPHY-MASS SPECTROMETRY RATIOS

TABLE 6

Alkane Gas Chromatography Data - Definition of Ratios

$$\text{CPI 1 (Bray and Evans)} = \frac{1}{2} \times \left[\frac{C_{25} + C_{27} + C_{29} + C_{31} + C_{33}}{C_{24} + C_{26} + C_{28} + C_{30} + C_{32}} + \frac{C_{25} + C_{27} + C_{29} + C_{31} + C_{33}}{C_{25} + C_{28} + C_{30} + C_{32} + C_{34}} \right]$$

$$\text{CPI 2 (Radke and Statoil)} = \frac{1}{2} \times \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{25} + C_{28} + C_{30} + C_{32}} \right]$$

$$\text{CPI 3 (Statoil and Philippi)} = \frac{2 \times C_{27}}{C_{26} + C_{28}}$$

$$\text{Bias} = \frac{C_{16} + C_{17} + C_{18} + C_{19} + C_{20} + C_{21} + C_{22}}{C_{23} + C_{24} + C_{25} + C_{26} + C_{27} + C_{28} + C_{29} + C_{30} + C_{31} + C_{32} + C_{33}}$$