MUD fbLUME DISTRIBUTION SUMMARY

Baroid

Operator: MOBIL Well: 6407/5-1 Rig: "TREASURE SCOUT"

NORSK PETROLEUM nps SERVICES I

Hole size	Interval			Mud/Brine						Cuttings volume drilled	Interval Mud Type
	Spud Depth	TD depth	Length	Built	Dumped	Lost to formation	Lost over sollos conrol equip.	Left behind casing	Transfer to next section		
36"	244	413	169	4.046	2.629	0	0	0	1.417	111 m³	Seawater/Spud Mud
26»	413	1.025	612	10.527	11.944	0	0	0	0	219 m³	Seawater/Spud Mud
17 1/2"	1.000	2.053	1.053	10.754	7.145	180	3.334	95	0	159.5m³	Seawater-Gel-Ligno
12 1/4"	2.024	4.306	2.282	21.741	8.329	16	13.396	0	0	173.5m³	Seawater/Polymer
TOTALS				47.068	30.047	196	16.730	95		654 m³	

Total **Mud/Brine** left in hole + behind casing: 95 bbl

Total **Mud/Brine** to sea: 46.777 bbl

Spesialtrykk, Stvgr.

TRIENNIAL REPORT ON THE USE AND DISCHARGE OF CHEMICALS FROM PLATFORM

DRILLING CHEMICALS

Year: 1987

Country: NORWAY Mobil Hell No.: 6407/5-1

Function (a)	Trade Name	Major Component	Toxicity	Biodegradability («here appropiate)	Amount used (kg or tonnes) kg	Amount discharged (kg or tomes) kg
1	Barite	Barite	7,500 ppm		710,000	399,711
1	Bentonite	Bentonite	10,000 mg/l		120,000	101.007
2	Caustic Soda	Caustic Soda	700 ppm		3,200	2,624
2	Gypsum	Gypsum			0	0
2	Lime	Lime	500 ppm		40	40
2	Soda Ash	Soda Ash			2,250	2,073
2	Sodium Bicarbonate	Sodium Bicarbonate			250	102
3	Wallnut	Wallnut Shells	5,500 mg/l	Yes	0	0
4	Borrwell C	C. Lignosulfonate			1,300	633
5	Barpol	Polyanionic Cellulose	2,700 ppm	Yes	0	0
5	Dextrid	Starch	400 ppm		0	0
7	Surflo W300	Kerosene			0	0

TRIENNIAL REPORT ON THE USE AND DISCHARGE OF CHEMICALS FROM PLATFORM

DRILLING CHEMICALS

Year: 1988

Country: NORWAY Mobil Well No.: 6407/5-1

Function (a)	Trade Name	Major Component	Toxicity	Biodegradability (where appropiate)	Amount used (kg or tonnes) kg	Amount discharged (kg or tonnes) kg
1	Barite	Barite	7,500 ppm		4,609,000	4,879,079
1	Bentonite	Bentonite	10,000 mg/l		52,000	69.617
2	Caustic Soda	Caustic Soda	700 ppm		17,525	17,916
2	Gypsum	Gypsum			6,600	4,247
2	Lime	Lime	500 ppm		4,760	4,776
2	Soda Ash	Soda Ash			5,425	5,496
2	Sodium Bicarbonate	Sodium Bicarbonate			900	1,030
3	Mallnut	Mallnut Shells	5,500 mg/l	Yes	25	24
4	Borrwell C	C. Lignosulfonate			15,600	15,562
5	Barpol	Polyanionic Cellulose	2,700 ppm	Yss	13,475	13.465
5	Dextrid	Starch	400 ppm		27,975	27,954
T	Surflo W300	Kerosene			165	164

THE ROBERTSON GROUP plc

REPORT NO. 6508/Ic

PETROLEUM GEOCHEMICAL EVALUATION OF SOURCE ROCK POTENTIAL AND MIGRANT HYDROCARBONS IN THE SPEKK FORMATION IN THE MOBIL NORWAY 6407/5-1 WELL, HALTENBANKEN AREA, NORWEGIAN SEA

by

M A BASTOW

PROJECT NO. RGPD/890/IC/25792

Prepared by:

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MAY 1989

Robertson Group

2 INTRODUCTION

The present study has been carried out in accordance with an analytical programme and cost estimate for detailed source rock and migrant oil evaluation forwarded to Mobil Exploration Inc. on 3rd February 1989 (telex reference 528/DG). Authorisation to proceed with the study was received on 7th February 1989 (telex reference 5842/89/TH).

Our contact at Mobil Exploration Norway Inc. during the course of this study has been Mr E M Leavitt.

The total number of analyses carried out are as follows:

Sample preparation	:	3
Total organic carbon	:	3
Rock-Eval pyrolysis	:	9
Kerogen preparation for microscopy studies	:	8
Microscopy, including kerogen description, spore colouration and vitrinite reflectivity	:	8
Elemental analysis	:	11
Pyrolysis - gas chromatography	:	10
Alkane gas chromatography-mass spectrometry	:	6
Carbon isotopes (alkanes, aromatics, polars, asphaltenes)	:	6
Carbon isotopes (kerogen isolates)	:	6

Tables 1 to 3 include geochemical analyses that were completed and presented in the earlier geochemical study of the 6407/5-1 well (Report No. 6327/Ic). The additional core samples received were from the following depths: 3964.1m-3964.5m, 3967.6m-3967.9m and 3972.5m-3975.8m.

In addition to the three samples listed above, the following samples were submitted for Rock-Eval pyrolysis: 3936m-3945m, 3968m, 3972m, 4017m-4026m, 4044m-4053m and 4062m-4071m.

The following eight samples were submitted for kerogen preparation for microscopy studies: 3650m, 3639m-3648m, 3648m-3657m, 3873m-3882m, 3909m-3918m, 3918m-3927m, 3999m-4008m, 4089m-4098m.

The depths of the samples selected for kerogen elemental analysis and for pyrolysis-gas chromatography are listed on Table 4 and on the fly-sheet to Figure 3(1-10) respectively. An exactly identical sample set could not be submitted for both analyses as the pyrolysis-gas chromatography analysis may be carried out on smaller samples but requires that the pyrolytic hydrocarbon yield (S_2) from Rock-Eval pyrolysis is moderately high.

The six samples selected for detailed analysis of the solvent extractable hydrocarbons, including alkane gas chromatography-mass spectrometry (GC-MS) and carbon isotope analysis, are from the following depths: 3650m(SWC), 3873m-3882m, 3909m-3918m, 3973m(Core), 3999m-4008m and 4089m-4098m.

The abbreviations used in the analytical data sheets are listed in Appendix 1. The analytical procedures and techniques are briefly described in Appendix 2.

The biostratigraphic and lithostratigraphic data used in this report have been taken from the Robertson Group Confidential (Report No. 3836/Ia).

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil .av %	% (Visuat, frommicroscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
1030-060	Ctgs	**SND**, crs* 30% **MDST**, lt **ol-gy**, **sndy+** 10% **SST+** 10% CMT* tr mic	2.5-3.0	**.34**(1) **.44**(2)R	60	40	Mnr				
1150-180	Ctgs	SND, crs* 30% MDST, lt **ol-gy**, **sndy+** mnr **SST+** tr mic	3.0	**.33**(6) **.44**(19)R **.75**(5)R	50	30	20				
1270-300	Ctgs	MOST, lt ol-gy, sndy + 10% SND, crs* tr pyr* tr **glc**	3.0	.33(22)	30	70	Mnr				
1390-420	Ctgs	MDST, lt ol-gy, slty	3.0-3.5	-	30	70	Mnr				
1510-540	Ctgs	MDST, lt ol-gy, slty + 40% **MDST**, **ol-gy+** mnr SND, **crs+** mnr **pyr**	* 4.0 R	*	40	60	Mnr				
1630-660	Ctgs	MOST, lt **ol-gy+** mnr MDST, **ol-gy+** mnr SND **crs+** tr pyr	* 4.0-4.5 R	.35(23)	60	40	Mnr				
1750-780	Ctgs	MDST, lt **ol-gy+** 10% MDST, ol-gy* tr SND, crs	3.5	**.39**(5)	70	30	Mnr				
1870-900	Ctgs	MDST, lt **ol-gy+** mnr SST, **gy-orng**	3.5-4.0	**.38**(2) **.56**(6)R	60	40	Mnr				
1990-2020	Ctgs	MDST, lt **ol-gy+** 30% MDST, **gy-red+** 10% MDST, ol-gy, slty* tr SND, crs	3.5-4.0	.39(13) **.30**(18)L **.60**(2)R	70	30	Mnr				
2080-110	Ctgs	MDST, med gy* 40% MDST, lt **gn-gy+** mnr MDST, brn-gy	* 5.0 R	**.40**(2)	80	20	*				
2170-200	Ctgs	MDST, **med-dk** gy* 30% MDST, lt ol-gy, sndy * mnr SND* tr glc	* 5.0 R	**.43**(4) **.62**(6)R **.88**(6)R	70	30	Mnr				
2250.0	**Swc**	CLYST, med gy, mic	4.0 6.5 R	**.73**(2)R	60	40	Mnr				
2280-290	Ctgs	MDST, **ol-gy+** 10% **MDST**, **gy-red+** tr pyr + tr glc	4.0-4.5 6.0 R	.43(18) **.60**(10)R **.80**(16)R	60	40	*				
2340-350	Ctgs	MOST, med gy* 20% **SST+** mnr pyr* mnr MDST, **gy-red+** tr glc	4.0 5.0-5.5 R	.44(14) **.63**(22)R **.87**(8)R	70	30	*				
2350.0	**Swc**	CLYST, med gy, mic	4.0-4.5 7.0 R	**.75**(3)R 1.08(5)R	60	30	10				
2460-470	Ctgs	MDST, med **gy+** 30% MDST, med gy, **sndy+** 10% **SST+** tr MDST, **gy-red+** tr pyr	4.5 5.0 R	.45(13) **.66**(12)R **.89**(5)R	70	30	*				
2550-560	Ctgs	**MDST**, med gy* 30% MDST, med gy, sndy* 20% SST* tr MDST, **gy-red+** tr pyr	5.0 7.0 R	**.45**(4) **.64**(3)R **.89**(12)R	60	40	Mnr				

MATURITY AND **KEROGEN** COMPOSITION DATA

TABLE : **1A**

COMPANY: MOBIL NORWAY **WELL:** 6407/5-1 LOCATION: NORWEGIAN 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
2640-650	Ctgs	LST, med gy+ 20% MDST, med gy, sndy* 20% SST+ 10% MDST, dk gy	5.0 7.0 R	.46(8) .67(8)R .81(11)R 1.01(6)R	70	30	*				
2730-740	Ctgs	MDST, med gy* 10% MDST, dk gy* 10% SST + tr LST, pnk-gy* tr pyr	* 7.0 R	.48(4) .72(9)R	60	40	Mnr				
2820-830	Ctgs	MDST, med-dk gy* mnr MDST, gy-red+ tr SNO * tr LST, pnk-gy	* 7.0 R	.49(2) .62(2)R	70	30	*				
2910-920	Ctgs	MDST, med gy* mnr MOST, med-dk gy, calc+ tr pyr	* 6.0 R	.77(6)R	60	40	*				
3000-010	Ctgs	MDST, med-dk gy+ 40% MDST, med-dk gy, sndy+ tr pyr* tr LST pnk-gy* tr SND	5.0-5.5 6.0-6.5 R	.98(2)R	80	20	*				
3050.0	Swc	CLYST, med-dk gy	5.0 6.0 R	.55(18)	80	20	*				
3090-100	Ctgs	SH, dk gy* tr pyr* tr MDST, v lt gy	5.0 6.5 R	.52(6) .72(11)R .92(9)R 1.24(10)R	60	30	10	90	10	*	*
3160-170	Ctgs	SH, dk gy* mnr MDST, med gy* mnr SST						70	30	*	*
3180-190	Ctgs	SH, dk gy* tr CALT+ tr SST	5.5 6.5 R	.53(6) .68(7)R .91(17)R 1.19(14)R	60	40	Mnr				
3200.0	Swc	CLYST, dk gy	5.0 7.0 R	1.11(4)R	80	20	Mnr				
3240-250	Ctgs	SH, dk gy* mnr SND						90	10	*	*
3270-279	Ctgs	SH, dk gy+ 20% SND+ 10% MDST, med gy	5.5-6.0 6.5-7.0 R	*	50	40	10				
3310-320	Ctgs	SH, dk gy+ 20% MDST, med-dk gy* mnr MOST, gn-gy									
	P	SH, dk gy						85	15	*	*
3360-370	Ctgs	MDST, med gy* 30% SH dk gy	5.5-6.0 7.0 R	.63(2) .73(3)R .94(7)R 1.29(5)R	80	20	Mnr				
	P	SH, dk gy						85	15	*	*
3400-410	Ctgs	SH, dk gy* tr mic						90	10	*	*
3450-459	Ctgs	SH, med-dk gy* tr MDST, lt gy+ tr LST, wht	6.0 7.0-7.5 R	.65(17) .48(6)C .78(7)R .96(10)R	50	50	Mnr				

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1B

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DGF						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oi *m* av %	% (Visual, frommicroscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
3477-486	Ctgs	SH, **med-dk gy+** tr SST									
	P	SH, med-dk gy						90	10	*	*
3513-522	Ctgs	SH, med-dk **gy+** tr MOST, mod **brn+** tr SST						90	10	*	*
3531-540	Ctgs	SH, med-dk gy* tr **MDST,** mod brn* tr CALT+ tr pyr	6.0-6.5 7.0 R	**.66(** 9) **.49(** 6)C **.79(10)R** **.98(15)R**	40	60	Mnr				
	P	SH, med-dk gy						90	10	*	*
3585-594	Ctgs	SH, med-dk **gy+** tr **MDST,** mod brn* tr **pyr+** tr LST, **ol-blk**						95	5	*	*
3600.0	Swc	CLYST, dk gy, **mic**	6.0-6.5 7.5 R	**.68(10)** **.86(** 7)R 1.34(4)R	70	30	*	90	10	*	*
3621-630	Ctgs	SH, dk **gy+** mnr MDST, gn-gy* tr MDST, **gy-brn+** tr **SST,** med gy* tr CALT	6.5 7.0 R	**.64(** 7) **.42(** 9)C **.88(** 8)R 1.38(9)R	80	20	*	25	75	*	*
3639-648	Ctgs	MDST, **gy-blk+ 20%** SH dk **gy+ 10% SND+** tr SST, med gy* tr CALT	7.0-7.5	**.78(** 7)	20?	60?	20?	45	55	*	*
3648-657	Ctgs	**MDST, gy-blk+** 40% SH dk gy* tr **SST,** med **gy+** tr pyr	7.5	.77(11)	20	60	20				
	P	MDST, **gy-blk**						30	70	*	*
3650.00	Swc	CLYST, **gy-blk,** slty									
	Swc	After extraction						10	90	Hr	*
3670.0	Swc	CLYST, gy-blk	6.0-6.5	1.28(12)R	70	30	*				
3684-693	Ctgs	**MDST,** dk **gy+** 10% MDST, med **gy+** tr SH, dk gy* tr MDST, **gn-gy+** tr pyr						100	*	*	*
3711-720	Ctgs	MDST, med **gy+** 10% MDST, dk **gy+** mnr **MDST,** mod brn	* 7.0-7.5 R	.69(12) **.82(17)R** **.97(14)R**	90	10	*				
3720-729	Ctgs	SH, dk gy* 30% SH, med **gy+** 10% MDST, mod **brn+** tr **SST+** tr MOST, gn-gy						90	10	*	*
3792-801	Ctgs	**MDST,** med-dk gy* 20% SH, dk **gy+** tr MDST, mod brn* tr pyr									
	P	SH, dk gy						90	10	*	*

MATURITY AND **KEROGEN** COMPOSITION DATA

TABLE : 1C

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (visual, frommicroscopy)			% (Calculated)			
					INERTINITE	VITRIMITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
3810-819	Ctgs	MOST, med-dk gy, calc* 10% SH, dk gy * mnr MDST, mod brn	6.5-7.0 7.5-8.0 R	.68(11) .49(6)C .81(5)R 1.13(7)R	70	30	*				
3864-873	Ctgs	MDST, gy-blk* 20% SH dk gy* mnr MDST, mod brn+ mnr MDST, lt ol-gy, calc* tr pyr									
	P	MDST, gy-blk						90	10	*	*
3873-882	Ctgs	MDST, gy-blk* 10% SH dk gy* tr MDST, mod brn	8.0	.70(10)	15	70	15?				
	Ctgs	After extraction						30	70	*	*
3882-891	Ctgs	MDST, gy-blk* 10% SH dk gy+ mnr MDST, mod brn						15	85	*	*
3891-900	Ctgs	MDST, gy-blk+ 30% SH dk gy* mnr MDST, mod brn	6.5-7.0 7.5-8.0 R	.70(7) .50(7)C .88(9)R	60	40	*				
	P	MDST, gy-blk						25	55	10	10
	P	After extraction						30	70	*	*
3900-909	Ctgs	MDST, gy-blk* 30% SH dk gy+ mnr MDST, mod brn+ tr MDST, gn-gy						30	70	*	*
3909-918	Ctgs	MDST, gy-blk* 20% SH dk gy* mnr MDST, mod brn* tr SST, lt gy	7.5-8.0	.70(39)	25	65	10?				
	Ctgs	After extraction						45	55	*	*
3918-927	Ctgs	MDST, gy-blk* 20% SH dk gy+ tr MDST, mod brn* tr LST, lt gy	8.0	.77(23)	30	50	20?				
	Ctgs	After extraction						45	55	*	*
3927-936	Ctgs	MDST, gy-blk+ 30% SH dk gy* tr MDST, mod brn* tr pyr+ tr SST, lt ol-gy						30	70	*	*
3936-945	Ctgs	MDST, gy-blk* 40% SH dk gy* tr MDST, mod brn+ tr pyr+ tr SST, lt ol-gy						50	50	*	*
3945-954	Ctgs	MDST, gy-blk* 40% SH dk gy* tr SST, lt ol-gy+ tr glc+ tr MDST, mod brn						45	55	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1D

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (visual, frommicroscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
3954-963	Ctgs	MOST, gy-blk+ 30% MDST, dk gy+ mnr MDST, mod brn* tr SST, lt ol-gy* tr pyr									
	P	MOST, gy-blk						45	55	*	*
3964.1-964.5	Core	CLYST, dk gy	8.0-8.5	.75(21)	20	70	10	45	55	*	*
3967.0	Core	CLYST, dk gy						45	55	*	*
3967.6-967.9	Core	CLYST, dk gy						35	65	*	*
3968.0	Core	CLYST, dk gy						55	45	*	*
3971.0	Core	CLYST, dk gy						10	90	*	*
3972-981	Ctgs	MDST, gy-blk* 30% SH dk gy* mnr MDST, mod brn* tr SST+ tr pyr						30	70	*	*
3972.0	Core	CLYST, dk gy	6.5 8.0-8.5 R	.71(22) .88(8)R 1.08(9)R	20	60	20?				
	P	CLYST, dk gy		.70(8) .85(11)R 1.14(13)R							
3972.5-975.8	Core	CLYST, dk gy						35	65	*	*
3973.0	Core	CLYST, dk gy						10	90	*	*
	Core	After extraction						40	60	*	*
3981-990	Ctgs	MOST, gy-blk+ 10% SH dk gy+ mnr MDST, mod brn* mnr MDST, lt gy, calc	6.5-7.0 8.0 R	.74(8) .57(11)C .92(7)R	20	60	20?				
	P	MOST, gy-blk						65	35	*	*
3990-999	Ctgs	MDST, gy-blk* mnr SH dk gy+ tr MOST, mod brn+ tr SST+ tr CALT						75	25	*	*
3999-4008	Ctgs	MOST, gy-blk+ mnr MOST, ol-gy, slty+ tr SH, dk gy* tr MOST, mod brn	8.0	.82(27)	30	50	20?	65	35	*	*
4008-017	Ctgs	MDST, gy-blk+ 10% MOST, dk gy+ tr MOST v lt gy+ tr MDST, mod brn						70	30	*	*
4017-026	Ctgs	MOST, gy-blk* mnr MDST, dk gy+ tr MDST mod brn* tr SST* tr LCM						75	25	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1E

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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
4026-035	Ctgs	MDST, gy-blk* 20% SH dk gy+ mnr MDST, mod brn+ mnr LCM* tr SST									
	P	MDST, gy-blk						65	35	*	*
4035-044	Ctgs	MDST, gy-blk* 20% SH dk gy+ tr MDST, mod brn* tr CALT+ tr LCM						70	30	*	*
4044-053	Ctgs	MDST, gy-blk+ 30% SH dk gy+ mnr MDST, med gy* tr SST+ tr MDST, mod brn						75	25	*	*
4053-062	Ctgs	MDST, gy-btk+ mnr SH dk gy* tr MDST, med gy* tr MDST, mod brn+ tr SST	7.5-8.0	.72(22) .52(8)C .89(18)R	20?	60?	20?	65	35	*	*
4062-071	Ctgs	MDST, gy-blk+ mnr MDST, med-lt gy, calc* mnr MDST, mod brn* tr glc+ tr SST						70	30	*	*
4071-080	Ctgs	MDST, gy-blk* mnr SH med gy* tr MDST, mod brn* tr pyr						65	35	*	*
4080-089	Ctgs	MDST, gy-blk* 10% MDST, dk gy* mnr MDST, med-dk gy+ tr SST, lt gy* tr pyr						65	35	*	*
4089-098	Ctgs	MDST, gy-blk+ mnr MDST, dk gy* tr MDST med gy* tr SST, lt gy* tr glc	8.0-8.5	.81(32)	30?	60?	10?	55	45	*	*
4098-107	Ctgs	MDST, gy-blk* 10% MOST, dk gy* 10% MDST, med gy* mnr MDST, mod brn* tr SST, lt gy									
	P	MDST, gy-blk						40	60	*	*
	P	After extraction						60	40	*	*
4107-116	Ctgs	SH, dk gy* 30% MDST, med-dk gy* mnr MDST, mod brn+ tr pyr* tr SST, lt ol-gy, mic						75	25	*	*
4125-134	Ctgs	MDST, med gy, calc+ 40% MDST, dk gy* mnr MDST, mod brn* tr CALT	7.5-8.0	.60(2)C .95(7)R 1.52(13)R	80	20	*				
	P	MDST, dk gy						65	35	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1F

COMPANY: MOBIL NORWAY **WELL**: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, frommicroscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
4143-152	Ctgs	**MDST,** med-dk **gy+** mnr **MDST,** mod brn* tr SST, lt **gy+** tr SLTST lt gy* tr **pyr**						85	15	*	*
4161-170	Ctgs	SH, dk gy, **calc+** 10% MDST, **med-lt gy+** mnr MOST, mod brn* tr SST, lt gy* tr pyr						85	15	*	*
4179-188	Ctgs	SH, dk gy* 20% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt gy* tr COAL						85	15	*	*
4181.0	**Swc**	CLYST, dk **gy,** mic	8.0	1.50< 3)R	80	20	*				
4188-197	Ctgs	SH, dk gy* 20% SH, med-dk gy* mnr MDST, mod brn* tr MDST, **gy-blk,** carb* tr SST lt gy	7.5	**.78(9)** **.61(12)C** **.97(17)R** 1.25(10)R	60	40	*				
4197-206	Ctgs	SH, dk gy* 10% SH, med-dk **gy+** mnr **MDST,** mod **brn+** tr SST, lt gy* tr **SND**						90	10	*	*
4211.0	Core	SST, lt gy, **mic**	8.0	.77(32) **.60(16)L** **.97(3)R**	30	70	*				
4215-224	Ctgs	SH, dk gy* 40% **SND+** mnr MDST, mod brn* tr pyr									
	P	SH, dk gy						75	25	*	*
4252-260	Ctgs	SST, **yel-gy+** 30% SH, dk gy* mnr MDST, mod brn* tr **GYP+** tr SH, gy-blk	8.0	**.85(9)** **.61(8)C** 1.19(7)R	70	30	*				
	P	SH, dk gy						75	25	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1G

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
1030-060	Ctgs	SND, **crs+** 30% **MDST,** lt **ol-gy, sndy+** 10% SST + 10% **CMT+** tr **mic**	-											
1150-180	Ctgs	**SND,** crs* 30% MDST, lt ol-gy, **sndy+ mnr** SST * tr mic	-											
1270-300	Ctgs	MDST, lt ol-gy, **sndy+** 10% SND, crs* tr **pyr+** tr **glc**	-											
1390-420	Ctgs	MDST, lt ol-gy, slty	-											
1510-540	Ctgs	MDST, lt ol-gy, **slty+** 40% MDST, **ol-gy+** mnr SND **crs+** mnr pyr	"											
1630-660	Ctgs	MDST, lt **ol-gy+** mnr MDST **ol-gy+** mnr SND, **crs+** tr pyr	•											
1750-780	Ctgs	MDST, lt **ol-gy+** 10% MDST **ol-gy+** tr SND, crs	-											
1870-900	Ctgs	MDST, lt ol-gy+ mnr SST, **gy-orng**	-											
1990-2020	Ctgs	MDST, **lt ol-gy+** 30% MDST **gy-red+** 10% MDST, ol-gy, slty* tr SND, crs	-											
2080-110	Ctgs	MDST, med gy* 40% **MDST,** lt gn-gy* mnr MDST, **brn-gy**	•											
2170-200	Ctgs	MDST, **med-dk gy+** 30% MDST, lt ol-gy, **sndy+** mnr SND+ tr **glc**	•											
2250.0	**Swc**	**CLYST,** med gy, mic	-											
2280-290	Ctgs	MDST, **ol-gy+** 10% MDST, gy-red* tr **pyr+** tr glc	-											
2340-350	Ctgs	**MDST,** med **gy+** 20% **SST+** mnr pyr* mnr MDST, **gy-red+** tr glc	•											
2350.0	Swc	CLYST, med gy, mic	-											
2460-470	Ctgs	MDST, med **gy+** 30% MDST, med gy, **sndy+** 10% SST* tr **MDST, gy-red+** tr pyr	-											
2550-560	Ctgs	MDST, med gy* 30% MDST, med gy, sndy* 20% **SST+** tr MDST, gy-red* tr pyr	-											
2640-650	Ctgs	LST, med gy* 20% MDST, med gy, sndy* 20% SST* 10% MDST, dk gy	*											
2730-740	Ctgs	MDST, med gy* 10% MDST, dk gy* 10% **SST+** tr LST, **pnk-gy+** tr pyr	-											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2A

COMPANY: MOBIL NORWAY **WELL:** 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
2820-830	Ctgs	MDST, **med-dk** gy* mnr MOST, **gy-red+** tr SND+ tr LST, **pnk-gy**	-											
2910-920	Ctgs	MDST, med **gy+** mnr MDST, med-dk gy, **calc+** tr **pyr**	-											
3000-010	Ctgs	**MDST,** med-dk **gy+** 40% MDST, med-dk gy, **sndy+** tr pyr* tr LST, pnk-gy* tr SND	-											
3010-020	Ctgs	MDST, dk **gy+** 20% **SST+** mnr MDST, **gy-red+** tr LST pnk-gy	.73											
3020-030	Ctgs	MDST, dk **gy+** 10% SST, med gy	-											
3030-040	Ctgs	MDST, dk gy* mnr SST, med **gy+** mnr **LST,** pnk-gy * tr pyr	.81											
3040-050	Ctgs	SH, dk gy* 10% MOST, med gy* mnr LST, pnk-gy * tr SND	-											
3050-060	Ctgs	**SH,** dk gy* 20% **MDST,** med gy* tr SNO	.81											
3050.0	Swc	**CLYST,** med-dk gy	-											
3060-070	Ctgs	**SH,** dk gy* 10% **CALT+** mnr MDST, mod brn	-											
3070-080	Ctgs	SH, dk **gy+** mnr CALT+ mnr MDST, pal **yel-brn**	.74											
	P	**SH,** dk gy	.86											
3080-090	Ctgs	**SH,** dk **gy+** tr CALT+ tr pyr	.84											
3090-100	Ctgs	SH, dk gy* tr pyr* tr MDST, v lt gy	.96	430	19	135	.36	180						
3100-110	Ctgs	SH, dk gy* tr CALT* tr pyr* tr SST	-											
3110-120	Ctgs	SH, dk gy* mnr SST* tr CALT+ tr MOST, v lt gy	.84											
3120-130	Ctgs	**SH,** dk gy* mnr SST* tr MDST, dk **gn-gy**	-											
3130-140	Ctgs	SH, dk gy* mnr MDST, med gy* tr SST	-											
3140-150	Ctgs	**SH,** dk gy* mnr MDST, med gy* tr SST	.87											
3150-160	Ctgs	SH, dk **gy+** mnr MDST, med gy* tr SST* tr **MDST, gy-red**	-											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : **2B**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ADC. %HC
3160-170	Ctgs	SH, dk gy* mnr **MDST,** med gy* mnr SST	.89	435	46	153	.20	410	2310	115	26.0	13	5	84
3170-180	Ctgs	SH, dk gy* mnr MDST, pal **yel-brn+** mnr **MDST,** med gy	-											
3180-190	Ctgs	SH, dk gy* tr **CALT+** tr SST	.79											
3190-200	Ctgs	SH, dk **gy+** 10% MDST, lt gy* mnr **SST+** tr CALT	-											
3200-210	Ctgs	SH, dk **gy+ 10%** MDST, lt **ol-gy,** sndy* mnr SST	**.76**											
3200.0	**Swc**	CLYST, dk gy	-											
3210-220	Ctgs	MDST, dk gy* tr SNO+ tr LST, **pnk-gy**	-											
3220-230	Ctgs	MDST, dk gy* mnr SST* mnr SND	.90											
3230-240	Ctgs	SH, dk gy* tr SST	-											
3240-250	Ctgs	SH, dk gy* mnr SND	.97	434	15	43	.32	150						
3250-260	Ctgs	SH, dk gy* 10% MDST, med gy* 10% SND* tr **pyr**	-											
3260-270	Ctgs	SH, dk gy* 10% SND+ mnr MDST, med gy	.91											
3270-279	Ctgs	**SH,** dk gy* 20% SND* 10% MDST, med gy	**.94**											
3279-290	Ctgs	SH, dk gy* mnr MOST, med **gy+** tr SND	-											
3290-300	Ctgs	SH, dk gy* 30% MDST, **med-dk** gy	.91											
3300-310	Ctgs	SH, dk gy* 30% MDST, **med-dk** gy* mnr MOST, mod brn	-											
3310-320	Ctgs	SH, dk gy* 20% MDST, med-dk gy* mnr MDST, **gn-gy**	.83											
	P	SH, dk gy	.98	435	21	11	.25	210						
3320-330	Ctgs	MDST, med **gy+** 30% SH, dk **gy+** tr SND+ tr MDST, mod **brn+** tr pyr	-											
3330-340	Ctgs	**MDST,** med **gy+** 20% SH, dk gy	.72											
3340-350	Ctgs	MDST, med gy* 30% SH, dk **gy+** mnr MDST, mod brn	-											
3350-360	Ctgs	MDST, med gy* 20% SH, dk gy* mnr MDST, mod brn * tr LST, wht	.79											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2C

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA											
				PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION					
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %oOC	HC %EX	ALK. %HC
3360-370	Ctgs	MDST, med gy+ 30% SH, dk gy	.75											
	P	SH, dk gy	1.00	434	26	10	.26	260	335		3.3			
3370-380	Ctgs	MDST, med gy* 30% SH, dk gy* tr CALT+ tr MDST, mod brn	"											
3380-390	Ctgs	MDST, med gy+ 40% SH, dk gy* tr pyr	.85											
3390-400	Ctgs	SH, dk gy+ tr CALT+ tr LST, ol-gy+ tr MDST, mod brn	-											
3400-410	Ctgs	SH, dk gy+ tr mic	.99	429	13	38	.32	130						
3410-420	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr MDST, med gy	.89											
3420-430	Ctgs	SH, med-dk gy* tr MDST, dk gn-gy, slty+ tr MDST, lt gy	-											
3430-440	Ctgs	SH, med-dk gy+ tr MDST, lt gy* tr MDST, mod brn	.88											
3440-450	Ctgs	SH, med-dk gy* 10% MDST, med gy* mnr MDST, lt ol-gy* mnr MDST, mod brn	-											
3450-459	Ctgs	SH, med-dk gy* tr MDST, lt gy* tr LST, wht	.91											
3459-468	Ctgs	SH, med gy* 10% MDST, dk gy* tr SST+ tr MDST, mod brn	.82											
3468-477	Ctgs	SH, med-dk gy* tr SST+ tr glc	-											
3477-486	Ctgs	SH, med-dk gy* tr SST	.84											
	P	SH, med-dk gy	1.12	437	14	8	.38	160						
3486-495	Ctgs	SH, med-dk gy* tr pyr* tr MDST, mod brn* tr CALT	.84											
3495-504	Ctgs	SH, med-dk gy* tr pyr* tr MDST, mod brn	-											
3504-513	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr DOL, ol-blk	.89											
3513-522	Ctgs	SH, med-dk gy* tr MDST, mod brn+ tr SST	.97	436	12	60	.33	120	255		2.6			
3522-531	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr CALT* tr SST	-											
3531-540	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr CALT* tr pyr	.85											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2D

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3531-540	P	SH, med-dk gy	1.01	435	18	4	.18	180						
3540-549	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr DOL, ol-blk + tr pyr	-											
3549-558	Ctgs	SH, med-dk gy+ tr MDST, mod brn+ tr LST, yel-gy * tr DOL, ol-blk	.93											
3558-567	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr pyr* tr LST, lt gy	•											
3567-576	Ctgs	SH, med-dk gy+ mnr MDST, dk gy* tr MDST, mod brn * tr pyr* tr LST, lt gy	.96											
3576-585	Ctgs	SH, med-dk gy* tr MDST, lt gy* tr SST+ tr pyr* tr MDST, mod brn	-											
3585-594	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr pyr+ tr LST, ol-blk	1.01	432	9	36	.50	90						
	P	SH, med-dk gy	1.16											
3594-603	Ctgs	MDST, dk gy* tr MDST, gy-brn+ tr DOL, gy-blk	1.16											
3600.0	Swc	CLYST, dk gy, mic	1.87	442	20	20	.60	380						
3603-612	Ctgs	SH, dk gy* 30% MDST, gn-gy* 10% LST, v lt gy * tr MDST, gy-brn	-											
3612-621	Ctgs	SH, dk gy+ mnr MDST, gn-gy* tr MDST, gy-brn* tr CALT+ tr SST, med gy	1.99											
	P	SH, dk gy	1.34											
3621-630	Ctgs	SH, dk gy* mnr MDST, gn-gy* tr MDST, gy-brn+ tr SST, med gy+ tr CALT	2.56	434	95	20	.23	2440	3165	2215	12.4	87	70	42
3630-639	Ctgs	SH, dk gy* mnr MDST, gn-gy* tr pyr* tr SST, med gy+ tr CALT	-											
3639-648	Ctgs	MDST, gy-blk* 20% SH, dk gy* 10% SND+ tr SST, med gy* tr CALT	2.49	437	83	27	.24	2060	2775	2070	11.1	83	75	50
3648-657	Ctgs	MDST, gy-blk+ 40% SH, dk gy+ tr SST, med gy* tr pyr	2.10											
	P	MDST, gy-blk	3.36	436	110	18	.18	3680	3335		9.9			
	P	SH, dk gy	1.39											
3650.0	Swc	CLYST, gy-blk, slty	4.61	439	173	19	.28	7960	7880	5950	17.1	129	76	60
	Swc	After extraction	4.00	442	147	13	.02	5860						

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2E

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3657-666	Ctgs	**MDST,** med **gy+** 30% **SH,** dk gy* tr MDST, **gy-brn+** tr **glc+** tr DOL, **ol-blk**	-											
3660.0	**Swc**	CLYST, **gy-blk**	1.81											
3666-675	Ctgs	**MDST,** med gy* 10% SH, dk **gy+** tr CALT+ tr **SST,** med gy	.86											
3670.0	**Swc**	**CLYST,** gy-btk	1.69											
3675-684	Ctgs	MDST, dk **gy+** mnr MDST, med **gy+** mnr **SH,** dk gy* tr MDST, gn-gy+ tr pyr	-											
3684-693	Ctgs	MDST, dk **gy+** 10% MDST, med gy* tr SH, dk gy* tr **MDST, gn-gy+** tr pyr	1.22	441	4	57	.67	50						
3693-702	Ctgs	MDST, dk **gy+** 20% MDST, med gy* tr MDST, gy-brn	-											
3702-711	Ctgs	MDST, med gy* 20% MDST, mod brn* 10% SH, dk **gy+** tr CALT	-											
3711-720	Ctgs	MDST, med **gy+** 10% MDST, dk gy* mnr MDST, mod brn	1.09											
3720-729	Ctgs	SH, dk gy* 30% SH, med gy* 10% **MDST,** mod **brn+** tr SST* tr MDST gn-gy	1.00	439	13	20	.35	130						
3729-738	Ctgs	**SH,** dk gy* mnr MDST, med **gy+** tr MDST, mod brn + tr CALT+ tr pyr	-											
3738-747	Ctgs	**SH,** dk **gy+** 10% MDST, med gy* 10% MOST, mod brn* tr pyr	.85											
3747-756	Ctgs	**SH,** dk gy* 20% **MDST,** med gy* mnr MDST, mod **brn+** tr SND	-											
3756-765	Ctgs	SH, dk gy* 20% MDST, med gy* tr SND+ tr MDST, mod brn	.88											
3765-774	Ctgs	MDST, med **gy+** 40% SH, dk gy* mnr MDST, mod brn + tr SND+ tr pyr	-											
3774-783	Ctgs	MDST, **med-dk** gy, **calc+** 10% SH, dk gy* tr pyr	.84											
3783-792	Ctgs	MDST, med-dk gy, **calc+** 30% SH, dk gy* tr MDST, mod brn* tr pyr	-											
3792-801	Ctgs	MDST, med-dk **gy+** 20% **SH,** dk gy* tr MDST, mod brn * tr pyr	.72											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : **2F**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3792-801	P	**SH,** dk gy	1.11	446	18	10	.33	200						
3801-810	Ctgs	**MDST, med-dk gy+** 30% **SH,** dk **gy+** tr MOST, mod brn + tr , **pnk-gy**	-											
3810-819	Ctgs	**MDST, med-dk** gy, **calc+ 10% SH,** dk **gy+** mnr **MDST,** mod brn	.86											
3819-828	Ctgs	MDST, med-dk gy, **calc+ 40%** SH, dk **gy+ 10% MDST,** mod brn	-											
3828-837	Ctgs	MDST, med-dk gy, **calc+ 20% SH,** dk **gy+** 10% **MDST,** mod brn	.71											
3837-846	Ctgs	MDST, med-dk gy, **calc+** mnr SH, dk **gy+** mnr MDST, mod **brn+** mnr LST, **yel-gy**	-											
3846-855	Ctgs	MDST, med-dk gy, **calc+** 10% SH, dk gy* 10% LST, lt **ol-gy+** mnr MDST, mod brn	.65											
3855-864	Ctgs	MDST, med-dk gy, **calc+** 20% SH, dk **gy+** 10% **LST,** lt **ol-gy+** mnr MDST, mod **brn+** tr MDST, gn-gy	-											
3864-873	Ctgs	MDST, **gy-blk+** 20% SH, dk **gy+** mnr MDST, mod brn + mnr MDST, lt **ol-gy, calc+** tr pyr	2.25											
	P	MDST, **gy-blk**	4.29	444	140	21	.26	6000						
	P	SH, dk gy	.99											
3873-882	Ctgs	**MDST, gy-blk+** 10% **SH,** dk **gy+** tr MDST, mod brn	4.54	443	150	20	.31	6800	7450	5925	16.4	130	80	35
	Ctgs	After extraction	4.02	449	109	13	.01	4400						
3882-891	Ctgs	MDST, **gy-blk+** 10% SH, dk **gy+** mnr MDST, mod brn	4.25	442	130	23	.34	5510						
3891-900	Ctgs	MDST, **gy-blk+** 30% SH, dk **gy+** mnr MDST, mod brn	3.43											
	P	MDST, **gy-blk**	5.40	443	158	19	.31	8540	8540	7005	15.8	130	82	66
	P	After extraction	4.79	452	106	13	.02	5060						
3900-909	Ctgs	MDST, gy-blk+ 30% SH, dk **gy+** mnr MDST, mod brn **+** tr MDST, gn-gy	3.56	443	115	21	.37	4110						
3909-918	Ctgs	MDST, **gy-blk+** 20% SH, dk **gy+** mnr MDST, mod brn + tr SST, lt gy	4.00	441	117	25	.39	4680	6730	5630	16.8	141	84	68
	Ctgs	After extraction	3.45	446	84	16	.02	2890						

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : **2G**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3918-927	Ctgs	MDST, **gy-blk+** 20% SH, dk **gy+** tr MOST, mod brn + tr LST, lt gy	3.80	440	127	19	.35	4830	6325	5120	16.6	135	81	69
	Ctgs	After extraction	3.31	445	84	16	.02	2790						
3927-936	Ctgs	MDST, gy-blk+ 30% SH, dk gy* tr MOST, mod brn + tr **pyr+** tr SST, lt **ol-gy**	3.34	442	109	23	.37	3630						
3936-945	Ctgs	MDST, **gy-blk+** 40% SH, dk **gy+** tr MDST, mod brn + tr **pyr+** tr SST, lt ol-gy	2.28	450	72	24	.35	1640						
3945-954	Ctgs	**MDST, gy-blk+** 40% **SH,** dk **gy+** tr SST, lt ol-gy + tr **glc+** tr MDST, mod brn	2.87	444	82	26	.32	2360	3075	2545	10.7	89	83	66
3954-963	Ctgs	MDST, **gy-blk+** 30% MDST, dk **gy+** mnr MDST, mod brn **+** tr SST, lt **ol-gy+** tr **pyr**	3.06											
	P	MDST, **gy-blk**	5.06	441	80	25	**.38**	4060	6000	5035	11.9	99	84	67
	P	MDST, dk gy	1.18											
3963-972	Ctgs	SH, dk **gy+** 10% MDST, **med-dk gy+** mnr MDST, **gy-blk+** mnr MOST, mod **brn+** tr pyr	1.11											
3964.1-964.5	Core	CLYST, dk gy	4.48	440	86	8	.51	3840						
3967.0	Core	CLYST, dk gy	4.71	445	86	10	.43	4040	6275		13.3			
3967.6-967.9	Core	CLYST, dk gy	5.52	447	100	9	.40	5500						
3968.0	Core	CLYST, dk gy	4.52	442	71	16	.51	3220						
3971.0	Core	CLYST, dk gy	4.88	451	127	12	.33	6180						
3972-981	Ctgs	MDST, **gy-blk+** 30% SH, dk **gy+** mnr MDST, mod brn + tr **SST+** tr pyr	1.79	446	40	38	.35	720						
3972.0	Core	CLYST, dk gy	4.84	454	109	14	.39	5280						
3972.5-975.8	Core	CLYST, dk gy	3.84	443	99	11	.48	3820						
3973.0	Core	CLYST, dk gy	4.64	454	127	14	.33	5900	6275	5560	13.5	120	89	73
	Core	After **extraction**	3.96	460	90	6	.02	3580						
3981-990	Ctgs	MDST, **gy-blk+** 10% SH, dk gy* mnr MDST, mod brn **+** mnr MDST, lt gy, calc	3.16											
	P	MDST, **gy-blk**	4.40	446	52	22	.43	2290	**3585**	3030	8.1	69	85	70
3990-999	Ctgs	MDST, **gy-blk+** mnr **SH,** dk **gy+** tr MOST, mod brn + tr **SST+** tr CALT	3.73	449	42	21	.44	1550						

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2H

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3999-4008	Ctgs	MDST, gy-blk* mnr MDST, **ol-gy, slty+** tr SH, dk **gy+** tr MDST, mod brn	4.48	447	54	22	.40	2430	3990	3120	8.9	70	78	65
4008-017	Ctgs	MDST, gy-blk* 10% MDST, dk **gy+** tr MDST, v lt gy + tr MOST, mod brn	3.83	445	47	19	.43	1790						
4017-026	Ctgs	MDST, gy-blk* mnr MDST, dk gy* tr MDST, mod brn * tr **SST+** tr **LCM**	3.58	440	35	25	.52	1250						
4026-035	Ctgs	MDST, gy-blk+ 20% SH, dk gy* mnr MDST, mod brn * mnr LCM* tr SST	2.82											
	P	MOST, **gy-blk**	4.06	443	54	18	.40	2210						
	P	SH, dk gy	1.33											
4035-044	Ctgs	MDST, **gy-blk+** 20% SH, dk gy* tr MDST, mod brn + tr CALT+ tr LCM	3.37	448	43	28	.43	1450						
4044-053	Ctgs	MDST, gy-blk* 30% SH, dk gy* mnr MDST, med gy * tr **SST+** tr MDST, mod brn	3.12	448	40	29	.52	1240						
4053-062	Ctgs	MDST, gy-blk+ mnr SH, dk gy* tr MDST, med gy* tr MDST, mod **brn+** tr SST	4.25	450	53	27	.44	2270	4400	3690	10.4	87	84	69
4062-071	Ctgs	MDST, gy-blk* mnr MDST, **med-lt** gy, calc* mnr MOST, mod brn* tr **glc+** tr SST	3.56	448	48	24	.49	1700						
4071-080	Ctgs	**MDST,** gy-blk* mnr SH, med **gy+** tr MDST, mod brn + tr pyr	5.77	454	55	18	.46	3180						
4080-089	Ctgs	MDST, **gy-blk+** 10% MDST, dk **gy+** mnr MDST, **med-dk** gy* tr SST, lt gy * tr pyr	6.34	456	58	22	.43	3700	6225	4855	9.8	77	78	66
4089-098	Ctgs	MDST, gy-blk* mnr MDST, dk **gy+** tr MDST, med **gy+** tr SST, lt **gy+** tr glc	7.05	458	68	16	.37	4780	5695	4585	8.1	65	81	58
4098-107	Ctgs	MDST, **gy-blk+** 10% MDST, dk gy* 10% MDST, med gy * mnr MDST, mod brn* tr SST, lt gy	4.51											
	P	**MDST,** gy-blk	7.78	458	92	15	.29	7180	6380	5065	8.2	65	79	65
	P	After extraction	7.42	465	61	7	**.03**	4520						
4107-116	Ctgs	SH, dk gy* 30% MDST, med-dk gy* mnr MDST, mod brn* tr pyr* tr SST, **lt** ol-gy, **mic**	2.26	456	37	21	.31	830						
	P	SH, dk gy	2.37											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2I

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC XEX	ALK. %HC
4107-116	P	**MDST, med-dk** gy	.98											
4116-125	Ctgs	SH, dk **gy+** 30% MDST, med-dk gy, **calc+** mnr MDST, mod **brn+** tr SST, lt gy	1.43											
4125-134	Ctgs	**MDST,** med gy, **calc+** 40% MDST, dk gy* mnr MDST, mod **brn+** tr CALT	1.42											
	P	MDST, med gy, calc	.91											
	P	MDST, dk gy	2.72	457	55	14	.23	1490	1375		5.1			
4134-143	Ctgs	MDST, dk gy* 40% MDST, med-dk **gy+** mnr MDST, mod **red+** tr SST, lt **gy+** tr **pyr**	1.36											
4143-152	Ctgs	MDST, med-dk **gy+** mnr MDST, mod brn* tr SST, lt **gy+** tr SLTST, lt **gy+** tr pyr	1.46	451	23	18	.31	340						
4152-161	Ctgs	SH, dk gy, **calc+** mnr MDST, **med-lt** gy, **mic+** mnr MDST, mod **brn+** tr SST, lt **gy+** tr pyr	1.35											
4161-170	Ctgs	SH, dk gy, **calc+** 10% MDST, **med-lt** gy* mnr MDST, mod **brn+** tr **SST,** lt **gy+** tr pyr	1.55	457	22	42	.31	340	525	405	3.4	26	77	60
4170-179	Ctgs	**SH,** dk **gy+** mnr **MDST,** mod **brn+** mnr SST, **lt** gy + tr **pyr+** tr **glc**	1.44											
4179-188	Ctgs	SH, dk gy* 20% SH, med-dk gy* mnr MDST, mod **brn+** tr SST, lt **gy+** tr COAL	1.26	447	21	25	.30	260						
4181.0	**Swc**	CLYST, dk gy, mic	1.33											
4188-197	Ctgs	SH, dk **gy+** 20% **SH,** med-dk **gy+** mnr MDST, mod **brn+** tr MDST, **gy-blk** carb* tr SST, lt gy	.71											
	P	**SH,** dk gy	1.26											
	P	**SH,** med-dk gy	.82											
4197-206	Ctgs	SH, dk **gy+** 10% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt gy* tr SND	1.24	450	15	21	.36	180						
4206-215	Ctgs	SH, dk **gy+** mnr MDST, mod brn* tr SST, lt **gy+** tr pyr	1.21											
4207.0	Core	SST, lt gy, mic	.33											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2J

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
4211.0	Core	SST, lt gy, **mic**	.47											
4215-224	Ctgs	SH, dk **gy+** 40% SND+ mnr **MDST,** mod brn* tr pyr	.87											
	P	SH, dk gy	1.88	455	40	8	.25	760						
4224-233	Ctgs	SST, yel-gy* 10% SH, dk gy* tr MDST, mod brn * tr , gn-gy	.47											
4233-242	Ctgs	SST, **yel-gy+** mnr MOST, dk gy* tr MDST, mod brn + tr MOST, **ol-gy**	.30											
4242-252	Ctgs	SST, **yel-gy+** mnr SH, dk **gy+** mnr SH, **gy-blk+** tr MOST, mod brn* tr **MDST,** ot-gy	.26											
4252-260	Ctgs	SST, yel-gy* 30% SH, dk gy* mnr MDST, mod brn * tr **GYP+** tr SH, gy-blk	.57											
	P	SH, dk gy	1.83	456	45	8	.25	820	955		5.2			
4260-269	Ctgs	SST, yel-gy* mnr SH, dk gy* tr SH, gy-blk* tr **MDST,** mod brn* tr **MDST,** ol-gy	.33											
4269-278	Ctgs	SST, yel-gy* mnr SH, dk gy* mnr SH, gy-blk* tr **MDST,** mod brn	.38											
4278-287	Ctgs	**SST,** yel-gy+ mnr SH, dk **gy+** mnr SH, gy-blk* tr **MDST,** mod brn	.30											
4287-296	Ctgs	SST, **yel-gy+** mnr MDST, lt gy* mnr MDST, dk **gy+** tr SH, **gy-blk+** tr MDST, mod brn	.35											
4296-306	Ctgs	SST, yel-gy* tr SH, dk gy* tr MDST, lt **gy+** tr SH, **gy-blk+** tr MDST, mod brn	.29											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : **2K**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
3010-020	Ctgs	MDST, dk gy+ 20% SST+ mnr MDST gy-red+ tr LST, pnk-gy	.73								
3030-040	Ctgs	MDST, dk gy* mnr SST, med gy* mnr LST, pnk-gy+ tr pyr	.81								
3050-060	Ctgs	SH, dk gy+ 20% MDST, med gy+ tr SNO	.81								
3070-080	Ctgs	SH, dk gy* mnr CALT* mnr MDST, pal yel-brn	.74								
	P	SH, dk gy	.86								
3080-090	Ctgs	SH, dk gy* tr CALT+ tr pyr	.84								
3090-100	Ctgs	SH, dk gy+ tr pyr* tr MDST, v lt gy	.96	100	180	1300	19	135	.36	430	.14
3110-120	Ctgs	SH, dk gy+ mnr SST+ tr CALT* tr MDST, v lt gy	.84								
3140-150	Ctgs	SH, dk gy+ mnr MDST, med gy* tr SST	.87								
3160-170	Ctgs	SH, dk gy* mnr MDST, med gy* mnr SST	.89	100	410	1360	46	153	.20	435	.30
3180-190	Ctgs	SH, dk gy* tr CALT+ tr SST	.79								
3200-210	Ctgs	SH, dk gy+ 10% MDST, lt ol-gy, sndy* mnr SST	.76								
3220-230	Ctgs	MDST, dk gy* mnr SST* mnr SND	.90								
3240-250	Ctgs	SH, dk gy* mnr SND	.97	70	150	420	15	43	.32	434	.36
3260-270	Ctgs	SH, dk gy+ 10% SND+ mnr MDST, med gy	.91								
3270-279	Ctgs	SH, dk gy* 20% SND+ 10% MDST, med gy	.94								
3290-300	Ctgs	SH, dk gy+ 30% MDST, med-dk gy	.91								
3310-320	Ctgs	SH, dk gy* 20% MDST, med-dk gy + mnr MDST, gn-gy	.83								
	P	SH, dk gy	.98	70	210	110	21	11	.25	435	1.91
3330-340	Ctgs	MDST, med gy+ 20% SH, dk gy	.72								
3350-360	Ctgs	MDST, med gy* 20% SH, dk gy+ mnr MDST, mod brn+ tr LST, wht	.79								
3360-370	Ctgs	MDST, med gy+ 30% SH, dk gy	.75								
	P	SH, dk gy	1.00	90	260	100	26	10	.26	434	2.60
3380-390	Ctgs	MDST, med gy+ 40% SH, dk gy* tr pyr	.85								
3400-410	Ctgs	SH, dk gy* tr mic	.99	60	130	380	13	38	.32	429	.34
3410-420	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr MDST, med gy	.89								

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3A

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA									
				PYROLYSIS								
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3
3430-440	Ctgs	SH, med-dk gy* tr MDST, lt gy * tr MDST, mod brn	.88								
3450-459	Ctgs	SH, med-dk gy* tr MDST, lt gy * tr LST, wht	.91								
3459-468	Ctgs	SH, med gy* 10% MDST, dk gy* tr SST* tr MDST, mod brn	.82								
3477-486	Ctgs	SH, med-dk gy* tr SST	.84								
	P	SH, med-dk gy	1.12	100	160	90	14	8	.38	437	1.78
3486-495	Ctgs	SH, med-dk gy* tr pyr+ tr MDST mod brn+ tr CALT	.84								
3504-513	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr DOL, ol-blk	.89								
3513-522	Ctgs	SH, med-dk gy+ tr MDST, mod brn+ tr SST	.97	60	120	580	12	60	.33	436	.21
3531-540	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr CALT+ tr pyr	.85								
	P	SH, med-dk gy	1.01	40	180	40	18	4	.18	435	4.50
3549-558	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr LST, yel-gy+ tr DOL, ol-blk	.93								
3567-576	Ctgs	SH, med-dk gy* mnr MDST, dk gy + tr MDST, mod brn* tr pyr+ tr LST, lt gy	.96								
3585-594	Ctgs	SH, med-dk gy* tr MDST, mod brn+ tr pyr* tr LST, ol-blk	1.01	90	90	360	9	36	.50	432	.25
	P	SH, med-dk gy	1.16								
3594-603	Ctgs	MDST, dk gy* tr MDST, gy-brn+ tr DOL, gy-blk	1.16								
3600.0	Swc	CLYST, dk gy, mic	1.87	570	380	380	20	20	.60	442	1.00
3612-621	Ctgs	SH, dk gy* mnr MDST, gn-gy* tr MDST, gy-brn* tr CALT* tr SST, med gy	1.99								
	P	SH, dk gy	1.34								
3621-630	Ctgs	SH, dk gy+ mnr MDST, gn-gy* tr MDST, gy-brn+ tr SST, med gy* tr CALT	2.56	720	2440	510	95	20	.23	434	4.78
3639-648	Ctgs	MDST, gy-blk+ 20% SH, dk gy* 10% SND+ tr SST, med gy+ tr CALT	2.49	660	2060	670	83	27	.24	437	3.07
3648-657	Ctgs	MDST, gy-blk+ 40% SH, dk gy* tr SST, med gy+ tr pyr	2.10								
	P	MDST, gy-blk	3.36	810	3680	620	110	18	.18	436	5.94
	P	SH, dk gy	1.39								

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3B

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
3650.0	Swc	CLYST, gy-blk, slty	4.61	3160	7960	860	173	19	.28	439	9.26
	Swc	After extraction	4.00	100	5860	500	147	13	.02	442	11.72
3660.0	Swc	CLYST, gy-blk	1.81								
3666-675	Ctgs	MOST, med gy* 10% SH, dk gy* tr CALT+ tr SST, med gy	.86								
3670.0	Swc	CLYST, gy-blk	1.69								
3684-693	Ctgs	MDST, dk gy+ 10% MDST, med gy + tr SH, dk gy+ tr MOST, gn-gy + tr pyr	1.22	100	50	690	4	57	.67	441	.07
3711-720	Ctgs	MDST, med gy+ 10% MDST, dk gy + mnr MDST, mod brn	1.09								
3720-729	Ctgs	SH, dk gy+ 30% SH, med gy+ 10% MDST, mod brn+ tr SST+ tr MDST gn-gy	1.00	70	130	200	13	20	.35	439	.65
3738-747	Ctgs	SH, dk gy* 10% MDST, med gy+ 10% MDST, mod brn+ tr pyr	.85								
3756-765	Ctgs	SH, dk gy* 20% MDST, med gy* tr SND+ tr MDST, mod brn	.88								
3774-783	Ctgs	MDST, med-dk gy, calc+ 10% SH, dk gy* tr pyr	.84								
3792-801	Ctgs	MDST, med-dk gy+ 20% SH, dk gy + tr MDST, mod brn+ tr pyr	.72								
	P	SH, dk gy	1.11	100	200	110	18	10	.33	446	1.82
3810-819	Ctgs	MDST, med-dk gy, calc+ 10% SH, dk gy+ mnr MDST, mod brn	.86								
3828-837	Ctgs	MDST, med-dk gy, calc+ 20% SH, dk gy+ 10% MOST, mod brn	.71								
3846-855	Ctgs	MDST, med-dk gy, calc+ 10% SH, dk gy+ 10% LST, lt ol-gy+ mnr MDST, mod brn	.65								
3864-873	Ctgs	MDST, gy-blk+ 20% SH, dk gy+ mnr MDST, mod brn* mnr MDST, lt ol-gy, calc+ tr pyr	2.25								
	P	MDST, gy-blk	4.29	2110	6000	880	140	21	.26	444	6.82
	P	SH, dk gy	.99								
3873-882	Ctgs	MDST, gy-blk+ 10% SH, dk gy* tr MDST, mod brn	4.54	3090	6800	920	150	20	.31	443	7.39
	Ctgs	After extraction	4.02	40	4400	540	109	13	.01	449	8.15
3882-891	Ctgs	MDST, gy-blk+ 10% SH, dk gy* mnr MDST, mod brn	4.25	2800	5510	980	130	23	.34	442	5.62
3891-900	Ctgs	MDST, gy-blk+ 30% SH, dk gy* mnr MDST, mod brn	3.43								
	P	MDST, gy-blk	5.40	3820	8540	1000	158	19	.31	443	8.54

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3C

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
3891-900	P	After extraction	4.79	100	5060	620	106	13	.02	452	8.16
3900-909	Ctgs	MDST, gy-blk+ 30% SH, dk gy+ mnr MDST, mod brn+ tr MDST, gn-gy	3.56	2410	4110	750	115	21	.37	443	5.48
3909-918	Ctgs	MOST, gy-blk+ 20% SH, dk gy+ mnr MDST, mod brn+ tr SST, lt gy	4.00	2980	4680	980	117	25	.39	441	4.78
	Ctgs	After extraction	3.45	50	2890	550	84	16	.02	446	5.25
3918-927	Ctgs	MDST, gy-blk+ 20% SH, dk gy+ tr MDST, mod brn+ tr LST, lt gy	3.80	2620	4830	710	127	19	.35	440	6.80
	Ctgs	After extraction	3.31	50	2790	540	84	16	.02	445	5.17
3927-936	Ctgs	MDST, gy-blk+ 30% SH, dk gy+ tr MDST, mod brn+ tr pyr+ tr SST, lt ol-gy	3.34	2120	3630	770	109	23	.37	442	4.71
3936-945	Ctgs	MDST, gy-blk+ 40% SH, dk gy+ tr MDST, mod brn* tr pyr+ tr SST, lt ol-gy	2.28	870	1640	540	72	24	.35	450	3.04
3945-954	Ctgs	MDST, gy-blk+ 40% SH, dk gy+ tr SST, lt ol-gy+ tr glc+ tr MDST, mod brn	2.87	1110	2360	750	82	26	.32	444	3.15
3954-963	Ctgs	MDST, gy-blk+ 30% MDST, dk gy + mnr MDST, mod brn* tr SST, lt ol-gy+ tr pyr	3.06								
	P	MDST, gy-blk	5.06	2500	4060	1260	80	25	.38	441	3.22
	P	MDST, dk gy	1.18								
3963-972	Ctgs	SH, dk gy+ 10% MDST, med-dk gy + mnr MDST, gy-blk+ mnr MDST, mod brn+ tr pyr	1.11								
3964.1-964.5	Core	CLYST, dk gy	4.48	4050	3840	360	86	8	.51	440	10.67
3967.0	Core	CLYST, dk gy	4.71	3100	4040	480	86	10	.43	445	8.42
3967.6-967.9	Core	CLYST, dk gy	5.52	3640	5500	520	100	9	.40	447	10.58
3968.0	Core	CLYST, dk gy	4.52	3340	3220	720	71	16	.51	442	4.47
3971.0	Core	CLYST, dk gy	4.88	3080	6180	600	127	12	.33	451	10.30
3972-981	Ctgs	MDST, gy-blk+ 30% SH, dk gy+ mnr MDST, mod brn+ tr SST+ tr pyr	1.79	390	720	680	40	38	.35	446	1.06
3972.0	Core	CLYST, dk gy	4.84	3380	5280	700	109	U	.39	454	7.54
3972.5-975.8	Core	CLYST, dk gy	3.84	3590	3820	430	99	11	.48	443	8.88
3973.0	Core	CLYST, dk gy	4.64	2940	5900	640	127	14	.33	454	9.22
	Core	After extraction	3.96	60	3580	220	90	6	.02	460	16.27

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3D

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
3981-990	Ctgs	**MDST, gy-blk+** 10% SH, dk gy* mnr **MDST,** mod brn* mnr MDST, lt gy, calc	3.16								
	P	MDST, **gy-blk**	4.40	1720	2290	980	52	22	.43	446	2.34
3990-999	Ctgs	MDST, **gy-blk+** mnr SH, dk gy* tr MDST, mod **brn+** tr **SST+** tr CALT	3.73	1220	1550	790	42	21	.44	449	1.96
3999-4008	Ctgs	MDST, **gy-blk+** mnr **MDST, ol-gy, slty+** tr SH, dk **gy+** tr MDST, mod brn	**4.48**	1630	2430	970	54	22	.40	447	2.51
4008-017	Ctgs	MDST, **gy-blk+** 10% MDST, dk gy * tr MDST, v lt **gy+** tr MDST, mod brn	3.83	1350	**1790**	710	47	19	.43	445	2.52
4017-026	Ctgs	MDST, **gy-blk+** mnr MDST, dk gy + tr **MDST,** mod **brn+** tr **SST+** tr LCM	3.58	1360	1250	900	35	25	.52	440	1.39
4026-035	Ctgs	**MDST, gy-blk+** 20% **SH,** dk gy* mnr MDST, mod **brn+** mnr LCM* tr SST	2.82								
	P	MDST, **gy-blk**	4.06	1470	2210	730	54	18	.40	443	3.03
	P	SH, dk gy	1.33								
4035-044	Ctgs	**MDST, gy-blk+** 20% SH, dk gy* tr MDST, mod **brn+** tr **CALT+** tr LCM	3.37	1080	1450	950	43	28	.43	448	1.53
4044-053	Ctgs	MDST, gy-blk* 30% SH, dk gy* mnr MDST, med gy* tr **SST+** tr MDST, mod brn	3.12	1340	1240	910	40	29	.52	448	1.36
4053-062	Ctgs	MDST, **gy-blk+** mnr SH, dk gy* tr MDST, med **gy+** tr MDST, mod brn* tr SST	4.25	1750	2270	1160	53	27	.44	450	1.96
4062-071	Ctgs	**MDST, gy-blk+** mnr MDST, **med-lt** gy, **calc+** mnr MDST, mod **brn+** tr **glc+** tr SST	3.56	1630	1700	850	48	24	.49	448	2.00
4071-080	Ctgs	**MDST, gy-blk+** mnr SH, med gy* tr MDST, mod **brn+** tr pyr	5.77	2660	3180	1040	55	18	.46	454	3.06
4080-089	Ctgs	MDST, **gy-blk+** 10% MDST, dk gy * mnr MDST, **med-dk** gy* tr SST, lt **gy+** tr pyr	6.34	2820	3700	1400	58	22	.43	456	2.64
4089-098	Ctgs	MDST, **gy-blk+** mnr MDST, dk gy + tr MDST, med gy* tr **SST,** lt gy* tr **glc**	7.05	2760	4780	1120	68	16	.37	458	4.27
4098-107	Ctgs	MDST, **gy-blk+** 10% MDST, dk gy + 10% **MDST,** med gy* mnr MDST, rød brn* tr SST, lt gy	4.51								
	P	MDST, **gy-blk**	7.78	2960	7180	1160	92	15	.29	458	6.19
	P	**After** extraction	7.42	120	4520	540	61	7	**.03**	465	8.37

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3E

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
4107-116	Ctgs	SH, dk gy* 30% MDST, med-dk gy * mnr MDST, mod brn+ tr pyr* tr SST, lt ol-gy, mic	2.26	370	830	470	37	21	.31	456	1.77
	P	SH, dk gy	2.37								
	P	MDST, med-dk gy	.98								
4116-125	Ctgs	SH, dk gy* 30% MDST, med-dk gy calc+ mnr MDST, mod brn+ tr SST, lt gy	1.43								
4125-134	Ctgs	MDST, med gy, calc+ 40% MDST, dk gy* mnr MDST, mod brn+ tr CALT	1.42								
	P	MDST, med gy, calc	.91								
	P	MDST, dk gy	2.72	440	1490	380	55	14	.23	457	3.92
4134-143	Ctgs	MDST, dk gy+ 40% MDST, med-dk gy+ mnr MDST, mod red+ tr SST, lt gy+ tr pyr	1.36								
4143-152	Ctgs	MDST, med-dk gy* mnr MDST, mod brn+ tr SST, lt gy+ tr SLTST, lt gy+ tr pyr	1.46	150	340	270	23	18	.31	451	1.26
4152-161	Ctgs	SH, dk gy, calc+ mnr MDST, med-lt gy, mic* mnr MDST, mod brn+ tr SST, lt gy+ tr pyr	1.35								
4161-170	Ctgs	SH, dk gy, calc+ 10% MDST, med-lt gy* mnr MDST, mod brn+ tr SST, lt gy+ tr pyr	1.55	150	340	650	22	42	.31	457	.52
4170-179	Ctgs	SH, dk gy* mnr MDST, mod brn* mnr SST, lt gy* tr pyr+ tr glc	1.44								
4179-188	Ctgs	SH, dk gy* 20% SH, med-dk gy+ mnr MDST, mod brn* tr SST, lt gy* tr COAL	1.26	110	260	310	21	25	.30	447	.84
4181.0	Swc	CLYST, dk gy, mic	1.33								
4188-197	Ctgs	SH, dk gy* 20% SH, med-dk gy* mnr MDST, mod brn* tr MDST, gy-blk, carb* tr SST, lt gy	.71								
	P	SH, dk gy	1.26								
	P	SH, med-dk gy	.82								
4197-206	Ctgs	SH, dk gy* 10% SH, med-dk gy* mnr MDST, mod brn+ tr SST, lt gy+ tr SND	1.24	100	180	260	15	21	.36	450	.69
4206-215	Ctgs	SH, dk gy* mnr MDST, mod brn+ tr SST, lt gy* tr pyr	1.21								
4207.0	Core	SST, lt gy, mic	.33								
4211.0	Core	SST, lt gy, mic	.47								
4215-224	Ctgs	SH, dk gy* 40% SND+ mnr MDST, mod brn* tr pyr	.87								

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3F

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA								
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC X OF ROCK	PYROLYSIS							
				S1 (ppm)	S2 (ppm)	My	HI	OI	m	Tmax °C	S2/S3
4215-224	P	SH, dk gy	1.88	250	760	150	40	8	.25	455	5.07
4224-233	Ctgs	SST, yel-gy* 10X SH, dk gy* tr MDST, mod brn* tr , gn-gy	.47								
4233-242	Ctgs	SST, yel-gy+ mnr MDST, dk gy* tr MDST, mod brn* tr MDST, ol-gy	.39								
4242-252	Ctgs	SST, yel-gy* mnr SH, dk gy+ mnr SH, gy-blk* tr MDST, mod brn* tr MDST, ol-gy	.26								
4252-260	Ctgs	SST, yel-gy+ 30% SH, dk gy+ mnr MDST, mod brn+ tr GYP* tr SH, gy-blk	.57								
	P	SH, dk gy	1.83	280	820	150	45	8	.25	456	5.47
4260-269	Ctgs	SST, yel-gy* mnr SH, dk gy+ tr SH, gy-blk* tr MDST, mod brn* tr MDST, ol-gy	.33								
4269-278	Ctgs	SST, yel-gy+ mnr SH, dk gy* mnr SH, gy-blk+ tr MDST, mod brn	.38								
4278-287	Ctgs	SST, yel-gy+ mnr SH, dk gy+ mnr SH, gy-blk+ tr MDST, mod brn	.30								
4287-296	Ctgs	SST, yel-gy+ mnr MDST, lt gy* mnr MDST, dk gy* tr SH, gy-blk + tr MDST, mod brn	.35								
4296-306	Ctgs	SST, yel-gy* tr SH, dk gy* tr MDST, lt gy* tr SH, gy-blk* tr MDST, mod brn	.29								

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3G

TABLE 4

Kerogen Elemental Analysis Data

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN NORTH SEA

DEPTH (METRES)	C(%)	H(%)	N(%)	S(%)	ASH(%)	O(%)	$H/C_{(2)}$	$O/C_{(3)}$
3639-3648	50.85	2.77	1.02	19.69	*	-	0.65	-
3648-3657	54.05	2.94	1.04	16.86	*	-	0.65	-
3873-3882	52.98	3.41	1.50	20.39	*		0.77	-
3891-3900	59.47	3.48	1.51	13.55	17.1	4.89	0.70	0.062
3909-3918	52.61	3.09	1.41	19.95	*	-	0.70	-
3918-3927	53.43	3.32	1.28	13.60	19.2	9.17	0.74	0.129
3973	65.72	3.57	1.45	11.31	*	-	0.65	-
3981-3990	57.94	2.62	1.22	16.07	19.0	3.15	0.54	0.041
3999-4008	56.64	2.73	1.19	16.90	*	-	0.57	-
4053-4062	59.37	2.92	1.28	14.49	20.6	1.34	0.59	0.017
4089-4098	61.73	3.13	1.18	10.77	13.9	9.29	0.60	0.113

Notes:

(1) - Oxygen contents determined by difference
(2) - atomic hydrogen/carbon ratio
(3) - atomic oxygen/carbon ratio
* - not determined
\- - not calculated

TABLE 5

Alkane Gas Chromatography-Mass Spectrometry Ratios

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

DEPTH (METRES)	1	2	3	4	5	6	7	8	9	10	11	12
3650	2.13	0.10	1.,39	1.45	0.22	0.15	4.14	58	70	37/28/35	61	0.61
3873-3882	15.56	0.15	1,.82	*	0..39	0.66	0.57	52	64	*	57	0.57
3909-3918	9.90	0.14	2..54	*	0..13	0.70	*	*	*	*	60	*
3973	7..75	*	1..65	*	0,,11	2..27	*	*	*	*	59	*
3999-4008	5.,50	*	1..70	*	0..35	1.,87	*	*	*	*	62	*
4089-4098	3.,80	*	*	*	0.25	3,.19	*	*	*	*	56	*

Explanation of ratios:

1 C_{27} 18α(H)-trisnorneohopane/17α(H)-trisnorhopane (m/e 191)
2 C_{30} 17ß(H)21α(H)-moretane/17α(H)21ß(H)-hopane (m/e 191)
3 22S/22R of C_{31} 17α(H)21ß(H)-homohopanes (m/e 191)
4 22S/22R of C_{32} 17α(H)21ß(H)-bishomohopanes (m/e 191)
5 C_{29} 17α(H)-norhopane/C_{29} 17α(H)-norhopane + C_{30} 17α(H)-hopane (m/e 191)
6 C_{30} unidentified hopane (peak 61)/C_{30} 17α(H)21ß(H)-hopane (m/e 191)
7 C_{30} 17α(H)21ß(H)-hopane (m/e 191)/total C_{29} steranes (m/e 217, 218)
8 X20S of (20S + 20R) 5α(H)14α(H)17α(H) C_{29} sterane (m/e 217)
9 Z 5α(H)14ß(H)17ß(H) 20S + 20R isosteranes (m/e 218) of total C_{29} sterane (m/e 217, 218)
10 Percentage composition of $C_{27}/C_{28}/C_{29}$ 5α(H)14α(H)17α(H) 20R steranes (m/e 217)
11 % 20S of (20S + 20R) 13ß(H)17α(H) C_{27} diasteranes (m/e 259)
12 13ß(H)17α(H) (20S + 20R) C_{29} diasteranes (m/e 259)/total C_{29} steranes (m/e 217, 218)

TABLE 6

Carbon Isotope Ratios

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

DEPTH (METRES)	ALKANES	AROMATICS	POLARS	ASPHALTENES	KEROGEN
3650	-28.4	-27.5	-27.0	-26.8	-26.2
3873-3882	-30.6	-29.4	-29.2	-29.9	-28.0
3909-3918	-30.6	-29.5	-29.7	-29.9	-28.6
3973	-29.4	-27.8	-27.2	-28.2	-27.0
3999-4008	-26.1	-24.5	-25.2	-25.9	-25.5
4089-4098	-28.1	-26.7	-26.5	-25.4	-24.4

U-562

3

THE ROBERTSON GROUP plc

REPORT NO. 6327/Ic

PETROLEUM GEOCHEMICAL EVALUATION OF THE INTERVAL 1030m TO 4306mTD IN THE MOBIL NORWAY 6407/5-1 WELL, HALTENBANKEN AREA, NORWEGIAN SEA

by

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JULY 1988

Robertson Group

2 INTRODUCTION

This report describes the results of a petroleum geochemical evaluation of the interval 1030m to 4306mTD in the Mobil Exploration Norway Inc. 6407/5-1 well, drilled in the Haltenbanken area of the Norwegian Sea.

This study has been carried out in accordance with an analysis programme and cost estimate for geochemical well analysis forwarded to Mobil Exploration Norway Inc. by letter on 8th April, 1987. Authorisation to proceed with the study was received on 14th September, 1987 (telex reference TBC/BF). A short form agreement for complete biostratigraphical and geochemical analyses of the 6407/5-1 well was received on 18th September, 1987 (agreement no. N7 SFA 07 0082). Drill cuttings samples were received for analysis in three consignments, on 3rd February, 1988 (sample interval 1060m to 1750m, airway bill LEP GBL 8391), 23rd February, 1988 (sample interval 1750m to 4098m, airway bill 220/7269 0833) and 29th February, 1988 (sample interval 4107m to 4306m, airway bill 220/7269 0844). The core and sidewall core samples received for biostratigraphic/lithostratigraphic studies were examined and seventeen samples were selected for geochemical analysis.

Preliminary geochemical analytical data were forwarded by letter to the client on 23rd May, 1988 and on 23rd June, 1988.

Our contact at Mobil Exploration Norway Inc. throughout the course of this study has been Dr. T. Christiansen.

The Robertson Group personnel involved in this study have been as follows:

Project co-ordination and supervision	-	P.C. Barnard
Interpretation and report preparation	-	M.A. Bastow
Microscopy studies	-	M. Ambuvirayan and M.A. Bastow

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

Airspace gaseous hydrocarbon analysis	:	159
Gasoline hydrocarbon analysis	:	31

Sample preparation (cleaning and lithology description)	:	176
Picking of individual lithologies	:	27
Total organic carbon content	:	138
Rock-Eval pyrolysis	:	51
Solvent extraction	:	24
Extract fractionation	:	18
Alkane gas chromatography	:	14
Kerogen preparation	:	45
Spore colouration index	:	45
Vitrinite reflectivity	:	43

The abbreviations used in the analytical data sheets presented in this report are listed in Appendix 1 and the analytical procedures and techniques employed during the course of the study are described briefly in Appendix 2. The prepared samples and recorded information have been curated and filed in the confidential records section of this company.

Sample type and quality:	159 canned drill cuttings samples from the interval 1030m to 4306mTD were prepared for geochemical analysis. These were generally of fair to good quality and quantity for all geochemical analyses. Seven core samples and ten sidewall core samples were obtained, primarily for maturity determination but also source rock evaluation where appropriate. These were of generally good quality for geochemical analysis. The cores were of good quantity, however, the sidewall core samples obtained were of poor quantity.
Maturity data quality:	Good
Source rock data quality:	Good
Gas chromatography run at:	3160m-3170m, 3621m-3630m, 3650m(SWC), 3873m-3882m, 3891m-3900m(P), 3909m-3918m, 3918m-3927m, 3954m-3963m(P), 3973m(core), 3999m-4008m, 4053m-4062m, 4089m-4098m, 4098m-4107m(P), 4161m-4170m.

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOURS INDEX	VITR. REFL. R oil av %	% (Visual, from microscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
1030-060	Ctgs	**SND,** crs* 30% MDST, lt **ol-gy, sndy+** 10% **SST+** 10% CMT+ tr **mic**	2.5-3.0	**.34(** 1) **.44(** 2)R	60	40	Mnr				
1150-180	Ctgs	**SND, crs+** 30% MDST, lt **ol-gy,** sndy* mnr **SST+** tr mic	3.0	**.33(** 6) **.44(19)R** **.75(** 5)R	50	30	20				
1270-300	Ctgs	MDST, lt **ol-gy,** sndy + 10% SND, **crs+** tr pyr* tr **glc**	3.0	.33(22)	30	70	Mnr				
1390-420	Ctgs	MDST, lt **ol-gy,** slty	3.0-3.5		30	70	Mnr				
1510-540	Ctgs	MDST, lt ol-gy, slty + 40% MDST, **ol-gy+** mnr SND, **crs+** mnr pyr	* 4.0 R		40	60	Mnr				
1630-660	Ctgs	MDST, lt **ol-gy+** mnr MDST, ol-gy* mnr SND **crs+** tr pyr	* 4.0-4.5 R	.35(23)	60	40	Mnr				
1750-780	Ctgs	MDST, lt ol-gy* 10% MDST, ol-gy* tr SND, crs	3.5	**.39(** 5)	70	30	Mnr				
1870-900	Ctgs	MDST, lt ol-gy* mnr SST, **gy-orng**	3.5-4.0	**.38(** 2) **.56(** 6)R	60	40	Mnr				
1990-2020	Ctgs	MDST, lt ol-gy+ 30% MDST, **gy-red+** 10% MDST, ol-gy, slty* tr SND, crs	3.5-4.0	.39(13) **.30(18)L** **.60(** 2)R	70	30	Mnr				
2080-110	Ctgs	MDST, med gy* 40% MDST, **lt gn-gy+** mnr MDST, **brn-gy**	* 5.0 R	**.40(** 2)	80	20	*				
2150.0	**Swc**	CLYST, ol-gy, **mic**	4.0 7.0 R	**.40(** 2) **.29(** 3)L	50	50	Mnr				
2170-200	Ctgs	**MDST, med-dk gy+** 30% MDST, lt ol-gy, sndy * mnr SND+ tr **glc**	* 5.0 R	**.43(** 4) **.62(** 6)R **.88(** 6)R	70	30	Mnr				
2250.0	Swc	**CLYST,** med gy, mic	4.0 6.5 R	**.73(** 2)R	60	40	Mnr				
2280-290	Ctgs	MDST, ol-gy* 10% MDST, **gy-red+** tr pyr * tr **glc**	4.0-4.5 6.0 R	.43(18) **.60(10)R** **.80(16)R**	60	40	*				
2340-350	Ctgs	MDST, med gy* 20% **SST+** mnr pyr* mnr MDST, **gy-red+** tr **glc**	4.0 5.0-5.5 R	.44(14) **.63(22)R** **.87(** 8)R	70	30	*				
2350.0	**Swc**	CLYST, med gy, mic	4.0-4.5 7.0 R	**.75(** 3)R 1.08(5)R	60	30	10				
2460-470	Ctgs	MDST, med gy* 30% MDST, med gy, **sndy+** 10% **SST+** tr MDST, **gy-red+** tr pyr	4.5 5.0 R	.45(13) **.66(12)R** **.89(5)R**	70	30	*				

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1A

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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
2550-560	Ctgs	MDST, med gy* 30% MDST, med gy, sndy* 20% SST* tr **MDST, gy-red+** tr pyr	5.0 7.0 R	**.45**(4) **.64**(3)R **.89(12)R**	60	40	Mnr				
2640-650	Ctgs	LST, med gy* 20% MDST, med gy, sndy* 20% SST* 10% MDST, dk gy	5.0 7.0 R	**.46**(8) **.67**(8)R **.81(11)R** **1.01**(6)R	70	30	*				
2730-740	Ctgs	MDST, med gy* 10% MOST, dk gy* 10% SST * tr LST, pnk-gy* tr pyr	* 7.0 R	**.48**(4) **.72**(9)R	60	40	Mnr				
2820-830	Ctgs	MDST, med-dk gy* mnr MDST, **gy-red+** tr SND * tr LST, pnk-gy	* 7.0 R	**.49**(2) **.62**(2)R	70	30	*				
2910-920	Ctgs	MDST, med gy* mnr MDST, med-dk gy, **calc+** tr pyr	* 6.0 R	**.77**(6>R	60	40	*				
3000-010	Ctgs	**MDST,** med-dk gy* 40% MDST, med-dk gy, **sndy+** tr **pyr+** tr LST pnk-gy* tr SND	5.0-5.5 6.0-6.5 R	**.98**(2)R	80	20	*				
3050.0	**Swc**	CLYST, med-dk gy	5.0 6.0 R	.55(18)	80	20	*				
3090-100	Ctgs	**SH,** dk gy* tr pyr* tr MDST, *v* lt gy	5.0 6.5 R	**.52**(6) **.72(11)R** **.92**(9)R 1.24(10)R	60	30	10	90	10	*	*
3160-170	Ctgs	SH, dk gy* mnr MDST, med gy* mnr SST						70	30	*	*
3180-190	Ctgs	SH, dk **gy+** tr CALT+ tr SST	5.5 6.5 R	**.53**(6) **.68**(7)R **.91(17)R** **1.19(14)R**	60	40	Mnr				
3200.0	**Swc**	CLYST, dk gy	5.0 7.0 R	**1.11**(4)R	80	20	Mnr				
3240-250	Ctgs	SH, dk gy* mnr SND						90	10	*	*
3270-279	Ctgs	SH, dk gy* 20% SND* 10% MDST, med gy	5.5-6.0 6.5-7.0 R		50	40	10				
3310-320	Ctgs	SH, dk gy* 20% MDST, med-dk gy* mnr MDST, **gn-gy**									
	P	SH, dk gy						85	15	*	*
3360-370	Ctgs	MDST, med gy* 30% SH dk gy	5.5-6.0 7.0 R	**.63**(2) **.73**(3)R **.94**(7)R 1.29(5)R	80	20	Mnr				
	P	SH, dk gy						85	15	*	*
3400-410	Ctgs	SH, dk gy* tr **mic**						90	10	*	*

MATURITY AND **KEROGEN** COMPOSITION DATA

TABLE : **1B**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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
3450-459	Ctgs	SH, med-dk gy+ tr MOST, lt gy+ tr LST, wht	6.0 7.0-7.5 R	.65(17) .48(6)C .78(7)R .96(10)R	50	50	Mnr				
3477-486	Ctgs	SH, med-dk gy* tr SST									
	P	SH, med-dk gy						90	10	*	*
3513-522	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr SST						90	10	*	*
3531-540	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr CALT+ tr pyr	6.0-6.5 7.0 R	.66(9) .49(6)C .79(10)R .98(15)R	40	60	Mnr				
	P	SH, med-dk gy						90	10	*	*
3585-594	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr pyr* tr LST, ol-blk						95	5	*	*
3600.0	Swc	CLYST, dk gy, mic	6.0-6.5 7.5 R	.68(10) .86(7)R 1.34(4)R	70	30	*	90	10	*	*
3621-630	Ctgs	SH, dk gy* mnr MDST, gn-gy+ tr MDST, gy-brn+ tr SST, med gy+ tr CALT	6.5 7.0 R	.64(7) .42(9)C .88(8)R 1.38(9)R	80	20	*	25	75	*	*
3639-648	Ctgs	MDST, gy-blk+ 20% SH dk gy* 10% SND+ tr SST, med gy* tr CALT						45	55	*	*
3648-657	Ctgs	MDST, gy-blk* 40% SH dk gy* tr SST, med gy* tr pyr									
	P	MDST, gy-blk						30	70	*	*
3650.00	Swc	CLYST, gy-blk, slty									
	Swc	After extraction						10	90	*	*
3670.0	Swc	CLYST, gy-blk	6.0-6.5	1.28(12)R	70	30	*				
3684-693	Ctgs	MOST, dk gy+ 10% MOST, med gy* tr SH, dk gy+ tr MDST, gn-gy* tr pyr						100	*	*	*
3711-720	Ctgs	MOST, med gy* 10% MDST, dk gy* mnr MOST, mod brn	* 7.0-7.5 R	.69(12) .82(17)R .97(14)R	90	10	*				
3720-729	Ctgs	SH, dk gy* 30% SH, med gy* 10% MOST, mod brn* tr SST+ tr MDST, gn-gy						90	10	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1C

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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
3792-801	Ctgs	HOST, **med-dk gy+ 20% SH,** dk **gy+** tr MDST, mod **brn+** tr **pyr**									
	P	SH, dk gy						90	10	*	*
3810-819	Ctgs	MDST, **med-dk** gy, **calc+ 10% SH,** dk gy * mnr MDST, mod brn	6.5-7.0 7.5-8.0 R	.68(11) **.49(** 6)C **.81(** 5)R 1.13< 7)R	70	30	*				
3864-873	Ctgs	MDST, **gy-blk+** 20% SH dk **gy+** mnr MDST, mod **brn+** mnr MDST, lt **ol-gy, calc+** tr pyr									
	P	MDST, **gy-blk**						90	10	*	*
3873-882	Ctgs	**MDST, gy-blk+ 10%** SH dk gy* tr MDST, mod brn						20	70	*	10
	Ctgs	After extraction						30	70	*	*
3882-891	Ctgs	MDST, **gy-blk+** 10% SH dk **gy+** mnr MDST, mod brn						15	85	*	*
3891-900	Ctgs	MDST, **gy-blk+** 30% SH dk gy* mnr MDST, mod brn	6.5-7.0 7.5-8.0 R	**.70(** 7) **.50(** 7)C **.88(** 9)R	60	40	*				
	P	MDST, **gy-blk**						25	55	10	10
	P	After extraction						30	70	*	*
3900-909	Ctgs	MDST, gy-blk* 30% SH dk gy* mnr MDST, mod brn* tr MDST, **gn-gy**						30	70	*	*
3909-918	Ctgs	MDST, gy-blk* 20% SH dk gy* mnr MDST, mod brn* tr SST, lt gy						30	70	*	*
	Ctgs	After extraction						45	55	*	*
3918-927	Ctgs	MDST, **gy-blk+** 20% SH dk gy* tr MDST, mod brn* tr **LST,** lt gy						15	85	*	*
	Ctgs	After extraction						45	55	*	*
3927-936	Ctgs	MDST, gy-blk* 30% SH dk **gy+** tr MDST, mod brn* tr **pyr+** tr SST, lt ol-gy						30	70	*	*
3945-954	Ctgs	MDST, gy-blk* 40% SH dk gy* tr SST, lt ol-gy* tr **glc+** tr **MDST,** mod brn						45	55	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1D

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, frommicroscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG: SAP	WXY SAP
3954-963	Ctgs	MDST, gy-blk+ 30% MDST, dk gy* mnr MDST, mod brn* tr SST, lt ol-gy+ tr pyr									
	P	MDST, gy-blk						45	55	*	*
3967.0	Core	CLYST, dk gy						45	55	*	*
3971.0	Core	CLYST, dk gy						10	90	*	*
3972-981	Ctgs	MOST, gy-blk+ 30% SH dk gy* mnr MDST, mod brn* tr SST* tr pyr						75	25	*	*
3972.0	Core	CLYST, dk gy	6.5 8.0-8.5 R	.71(22) .88(8)R 1.08(9)R	80	20	*				
	P	CLYST, dk gy		.70(8) .85(11)R 1.14(13)R							
3973.0	Core	CLYST, dk gy						10	90	*	*
	Core	After extraction						40	60	*	*
3981-990	Ctgs	MOST, gy-blk+ 10% SH dk gy* mnr MDST, mod brn* mnr MDST, lt gy, calc	6.5-7.0 8.0 R	.74(8) .57(11)C .92(7)R	80	20	*				
	P	MOST, gy-blk						65	35	*	*
3990-999	Ctgs	MDST, gy-blk* mnr SH dk gy* tr MDST, mod brn* tr SST* tr CALT						75	25	*	*
3999-4008	Ctgs	MDST, gy-blk+ mnr MOST, ol-gy, silty+ tr SH, dk gy+ tr MDST, mod brn						65	35	*	*
4008-017	Ctgs	MDST, gy-blk* 10% MDST, dk gy* tr MDST v lt gy* tr MDST, mod brn						70	30	*	*
4026-035	Ctgs	MOST, gy-blk* 20% SH dk gy* mnr MDST, mod brn* mnr LCM* tr SST									
	P	MOST, gy-blk						65	35	*	*
4035-044	Ctgs	MOST, gy-blk+ 20% SH dk gy* tr MDST, mod brn+ tr CALT+ tr LCM						70	30	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1E

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA						
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. R oil av %	% (Visual, frommicroscopy)			% (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
4053-062	Ctgs	**MDST, gy-blk+** mnr SH dk gy* tr **MDST,** med gy* tr MDST, mod brn* tr SST	7.5-8.0	.72(22) **.52(** 8)C **.89(18)R**	70	30	*	65	35	*	*
4071-080	Ctgs	**MDST, gy-blk+** mnr SH med gy* tr **MDST,** mod brn* tr **pyr**						65	35	*	*
4080-089	Ctgs	MDST, **gy-blk+** 10% **MDST,** dk gy* mnr MDST, **med-dk gy+** tr **SST,** lt gy* tr pyr						65	35	*	*
4089-098	Ctgs	MDST, **gy-blk+** mnr MDST, dk **gy+** tr MDST med gy* tr SST, lt gy* tr **glc**						55	45	*	*
4098-107	Ctgs	MDST, **gy-blk*** 10% MDST, dk gy* 10% MDST, med gy* mnr MDST, mod brn* tr SST, lt gy									
	P	MDST, **gy-blk**						40	60	*	*
	P	After **extraction**						60	40	*	*
4107-116	Ctgs	SH, dk gy* 30% MDST, med-dk gy* mnr MDST, mod **brn+** tr **pyr+** tr SST, lt **ol-gy, mic**						75	25	*	*
4125-134	Ctgs	MDST, med gy, calc* 40% MDST, dk gy* mnr MDST, mod brn* tr CALT	7.5-8.0	**.60(2>C** **.95(** 7)R 1.52(13)R	80	20	*				
	P	**MDST,** dk gy						65	35	*	*
4143-152	Ctgs	MDST, med-dk gy* mnr MDST, mod brn* tr **SST, lt gy+** tr SLTST lt gy* tr pyr						85	15	*	*
4161-170	Ctgs	SH, dk gy, calc* 10% MDST, **med-lt** gy* mnr **MDST,** mod brn* tr SST, lt gy* tr pyr						85	15	*	*
4179-188	Ctgs	SH, dk **gy+** 20% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt gy* tr COAL						85	15	*	*
4181.0	**Swc**	CLYST, dk gy, mic	8.0	1.50(3)R	80	20	*				
4188-197	Ctgs	SH, dk gy* 20% SH, med-dk gy* mnr MDST, mod brn* tr **MDST,** gy-blk, **carb+** tr SST lt gy	7.5	**.78(** 9) **.61(12)C** **.97(17)R** 1.25<10)R	60	40	*				

MATURITY AND **KEROGEN** COMPOSITION DATA

TABLE : **1F**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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)			X (Calculated)			
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP
4197-206	Ctgs	SH, dk gy+ 10% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt gy+ tr SND						90	10	*	*
4211.0	Core	SST, lt gy, mic	8.0	.77(32) .60(16)L .97(3)R	30	70	*				
4215-224	Ctgs	SH, dk gy+ 40X SND+ mnr MDST, mod brn+ tr pyr									
	P	SH, dk gy						75	25	*	*
4252-260	Ctgs	SST, yel-gy+ 30% SH, dk gy+ mnr MDST, mod brn* tr GYP+ tr SH, gy-blk	8.0	.85(9) .61(8)C 1.19(7)R	70	30	*				
	P	SH, dk gy						75	25	*	*

MATURITY AND KEROGEN COMPOSITION DATA

TABLE : 1G

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
1030-060	Ctgs	SND, crs* 30% MOST, lt **ol-gy, sndy+** 10% SST * 10% CMT+ tr **mic**	-											
1150-180	Ctgs	SND, crs* 30% MDST, lt **ol-gy, sndy+** mnr SST + tr mic	-											
1270-300	Ctgs	**MDST,** lt **ol-gy,** sndy* 10% SND, crs* tr pyr* tr **glc**	-											
1390-420	Ctgs	MDST, lt ol-gy, slty	-											
1510-540	Ctgs	MDST, lt **ol-gy,** slty* 40% **MDST, ol-gy+** mnr SND crs* mnr pyr	-											
1630-660	Ctgs	MDST, lt ol-gy* mnr MDST ol-gy* mnr SND, crs* tr pyr	-											
1750-780	Ctgs	MDST, lt ol-gy* 10% MDST ol-gy* tr SND, crs	-											
1870-900	Ctgs	MDST, lt ol-gy* mnr SST, **gy-orng**	-											
1990-2020	Ctgs	MDST, lt ol-gy* 30% MDST **gy-red+** 10% MDST, ol-gy, slty* tr SND, crs	-											
2080-110	Ctgs	MDST, med gy* 40% MDST, lt **gn-gy+** mnr MDST, **brn-gy**	-											
2150.0	**Swc**	CLYST, ol-gy, mic	-											
2170-200	Ctgs	**MDST, med-dk gy+** 30% MDST, lt ol-gy, sndy* mnr SND* tr glc	-											
2250.0	Swc	CLYST, med gy, mic	-											
2280-290	Ctgs	MDST, **ol-gy+** 10% MDST, **gy-red+** tr pyr* tr glc	-											
2340-350	Ctgs	MDST, med gy* 20% SST* mnr pyr* mnr MDST, **gy-red+** tr glc	-											
2350.0	**Swc**	CLYST, med gy, mic	-											
2460-470	Ctgs	MDST, med gy* 30% MDST, med gy, sndy* 10% **SST+** tr MDST, gyred* tr pyr	-											
2550-560	Ctgs	MDST, med **gy+** 30% MOST, med gy, **sndy+** 20% SST* tr MDST, **gy-red+** tr pyr	-											
2640-650	Ctgs	**LST,** med gy* 20% MDST, med gy, sndy* 20% SST* 10% MDST, dk gy	-											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2A

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC XEX	ALK. %HC
2730-740	Ctgs	MDST, med gy* 10% MDST, dk gy* 10% SST+ tr LST, pnk-gy* tr pyr	-											
2820-830	Ctgs	MDST, med-dk gy* mnr MOST, gyred* tr SND* tr LST, pnk-gy	-											
2910-920	Ctgs	MDST, med gy* mnr MDST, med-dk gy, calc+ tr pyr	-											
3000-010	Ctgs	MDST, med-dk gy* 40% MDST, med-dk gy, sndy* tr pyr* tr LST, pnk-gy* tr SND	-											
3010-020	Ctgs	MDST, dk gy* 20% SST+ mnr MDST, gyred* tr LST pnk-gy	.73											
3020-030	Ctgs	MDST, dk gy* 10% SST, med gy	-											
3030-040	Ctgs	MDST, dk gy* mnr SST, med gy+ mnr LST, pnk-gy * tr pyr	.81											
3040-050	Ctgs	SH, dk gy* 10% MDST, med gy* mnr LST, pnk-gy + tr SND	-											
3050-060	Ctgs	SH, dk gy* 20% MDST, med gy* tr SND	.81											
3050.0	Swc	CLYST, med-dk gy	-											
3060-070	Ctgs	SH, dk gy+ 10% CALT* mnr MDST, mod brn	-											
3070-080	Ctgs	SH, dk gy* mnr CALT* mnr MDST, pal yel-brn	.74											
	P	SH, dk gy	.86											
3080-090	Ctgs	SH, dk gy* tr CALT* tr pyr	.84											
3090-100	Ctgs	SH, dk gy+ tr pyr* tr MDST, v lt gy	.96	430	18	135	.36	180						
3100-110	Ctgs	SH, dk gy* tr CALT+ tr pyr+ tr SST	-											
3110-120	Ctgs	SH, dk gy* mnr SST+ tr CALT* tr MDST, v lt gy	.84											
3120-130	Ctgs	SH, dk gy* mnr SST+ tr MOST, dk gn-gy	-											
3130-140	Ctgs	SH, dk gy* mnr MDST, med gy* tr SST	-											
3140-150	Ctgs	SH, dk gy* mnr MDST, med gy* tr SST	.87											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2B

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3150-160	Ctgs	SH, dk **gy+** mnr MDST, med **gy+** tr **SST+** tr MDST, gyred	-											
3160-170	Ctgs	SH, dk **gy+** mnr **MDST,** med gy* mnr SST	.89	435	46	152	.20	410	2310	115	26.0	13	5	84
3170-180	Ctgs	SH, dk **gy+** mnr MDST, pal **yel-brn+** mnr MDST, med gy	II											
3180-190	Ctgs	SH, dk **gy+** tr CALT* tr SST	.79											
3190-200	Ctgs	SH, dk **gy+** 10% MDST, lt **gy+** mnr **SST+** tr CALT	-											
3200-210	Ctgs	SH, dk **gy+** 10% MDST, lt **ol-gy, sndy+** mnr SST	**.76**											
3200.0	**Swc**	CLYST, dk gy	-											
3210-220	Ctgs	MOST, dk gy* tr SND+ tr LST, **pnk-gy**	-											
3220-230	Ctgs	MDST, dk gy* mnr SST* mnr SND	.90											
3230-240	Ctgs	SH, dk **gy+** tr SST	-											
3240-250	Ctgs	SH, dk gy* mnr SND	.97	434	15	43	.32	150						
3250-260	Ctgs	SH, dk gy* 10% MDST, med gy* 10% SND+ tr **pyr**	-											
3260-270	Ctgs	SH, dk **gy+** 10% SND* mnr MOST, med gy	.91											
3270-279	Ctgs	SH, dk gy* 20% SND+ 10% MDST, med gy	.94											
3279-290	Ctgs	SH, dk gy* mnr MDST, med gy* tr SND	-											
3290-300	Ctgs	SH, dk gy* 30% MDST, **med-dk** gy	.91											
3300-310	Ctgs	SH, dk gy* 30% MDST, med-dk gy* mnr MDST, mod brn	-											
3310-320	Ctgs	SH, dk gy* 20% **MDST,** med-dk gy* mnr MDST, **gn-gy**	.83											
	P	SH, dk gy	.98	435	21	11	.25	210						
3320-330	Ctgs	MDST, med gy* 30% SH, dk gy* tr SND* tr MDST, mod brn* tr pyr	-											
3330-340	Ctgs	MDST, med **gy+** 20% **SH,** dk gy	.72											
3340-350	Ctgs	MDST, med **gy+** 30% SH, dk gy* mnr MDST, mod brn	-											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2C

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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. C ppm)	HC (ppm)	EXTR. % OC	HC %oOC	HC XEX	AIX. %HC
3350-360	Ctgs	MOST, med **gy+ 20% SH,** dk gy* mnr MDST, mod brn * tr **LST,** wht	.79											
3360-370	Ctgs	MDST, med gy* **30%** SH, dk **gy**	.75											
	P	SH, dk gy	1.00	434	26	10	.26	260	335		3.3			
3370-380	Ctgs	MDST, med gy* 30% SH, dk gy* tr **CALT+** tr MDST, mod brn	-											
3380-390	Ctgs	MDST, med gy* **40%** SH, dk gy* tr pyr	.85											
3390-400	Ctgs	SH, dk **gy+** tr CALT* tr LST, **ol-gy+** tr MDST, mod brn	-											
3400-410	Ctgs	SH, dk gy* tr mic	.99	429	13	38	.32	130						
3410-420	Ctgs	SH, **med-dk** gy* tr MDST, mod brn* tr MDST, med gy	.89											
3420-430	Ctgs	SH, med-dk gy* tr **MDST,** dk **gn-gy,** slty* tr **MDST,** lt gy	-											
3430-440	Ctgs	**SH,** med-dk **gy+** tr **MDST,** **lt** gy* tr MDST, mod brn	.88											
3440-450	Ctgs	SH, med-dk **gy+ 10% MDST,** med gy* mnr MDST, lt ol-gy* mnr MDST, mod brn	-											
3450-459	Ctgs	SH, med-dk **gy+** tr MDST, lt gy* tr LST, wht	.91											
3459-468	Ctgs	SH, med gy* **10% MDST,** dk gy* tr SST* tr MDST, mod brn	.82											
3468-477	Ctgs	SH, med-dk **gy+** tr SST* tr **glc**	-											
3477-486	Ctgs	SH, med-dk **gy+** tr SST	.84											
	P	**SH,** med-dk gy	1.12	437	14	8	.38	160						
3486-495	Ctgs	SH, med-dk gy* tr pyr* tr MDST, mod **brn+** tr CALT	.84											
3495-504	Ctgs	SH, med-dk gy* tr **pyr+** tr MDST, mod brn	-											
3504-513	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr DOL, **ol-blk**	.89											
3513-522	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr SST	.97	436	12	59	.33	120	255		2.6			
3522-531	Ctgs	SH, med-dk **gy+** tr MDST, mod brn* tr CALT* tr SST	-											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2D

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			GEOCHEMICAL 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	HC %EX	ALK. %HC
3531-540	Ctgs	SH, med-dk gy* tr MDST, mod brn+ tr CALT+ tr pyr	.85											
	P	SH, med-dk gy	1.01	435	17	3	.18	180						
3540-549	Ctgs	SH, med-dk gy* tr MDST, mod brn+ tr DOL, ol-blk * tr pyr	I											
3549-558	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr LST, yel-gy + tr DOL, ol-blk	.93											
3558-567	Ctgs	SH, med-dk gy* tr MDST, mod brn+ tr pyr* tr LST, lt gy	-											
3567-576	Ctgs	SH, med-dk gy+ mnr MDST, dk gy+ tr MDST, mod brn + tr pyr+ tr LST, lt gy	.96											
3576-585	Ctgs	SH, med-dk gy* tr MDST, lt gy+ tr SST* tr pyr+ tr MDST, mod brn	-											
3585-594	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr pyr+ tr LST, ol-blk	1.01	432	8	35	.50	90						
	P	SH, med-dk gy	1.16											
3594-603	Ctgs	MDST, dk gy+ tr MDST, gy-brn+ tr DOL, gy-blk	1.16											
3600.0	Swc	CLYST, dk gy, mic	1.87	442	20	20	.60	380						
3603-612	Ctgs	SH, dk gy* 30% MDST, gn-gy+ 10% LST, v lt gy + tr MDST, gy-brn	-											
3612-621	Ctgs	SH, dk gy* mnr MDST, gn-gy* tr MDST, gy-brn* tr CALT+ tr SST, med gy	1.99											
	P	SH, dk gy	1.34											
3621-630	Ctgs	SH, dk gy+ mnr MDST, gn-gy* tr MDST, gy-brn* tr SST, med gy+ tr CALT	2.56	434	95	19	.23	2440	3165	2215	12.4	86	70	42
3630-639	Ctgs	SH, dk gy* mnr MDST, gn-gy+ tr pyr+ tr SST, med gy* tr CALT	-											
3639-648	Ctgs	MDST, gy-blk+ 20% SH, dk gy+ 10% SND+ tr SST, med gy* tr CALT	2.49	437	82	26	.24	2060	2775	2070	11.1	83	75	50
3648-657	Ctgs	MDST, gy-blk+ 40% SH, dk gy* tr SST, med gy+ tr pyr	2.10											
	P	MDST, gy-blk	3.36	436	109	18	.18	3680	3335		9.9			
	P	SH, dk gy	1.39											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2E

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3650.0	Swc	**CLYST, gy-blk,** slty	4.61	439	172	18	.28	7960	7880	5950	17.1	**129**	76	60
	Swc	After extraction	4.00	442	146	12	.02	5860						
3657-666	Ctgs	MOST, med gy* 30% SH, dk gy* tr **MDST, gy-brn+** tr **glc+** tr DOL, **ol-blk**	-											
3660.0	Swc	CLYST, gy-blk	1.81											
3666-675	Ctgs	MDST, med gy* 10% SH, dk **gy+** tr CALT* tr **SST,** med gy	.86											
3670.0	Swc	CLYST, gy-blk	1.69											
3675-684	Ctgs	MDST, dk **gy+** mnr **MDST,** med gy* mnr SH, dk **gy+** tr MDST, **gn-gy+** tr pyr	-											
3684-693	Ctgs	**MDST,** dk **gy+ 10% MDST,** med gy* tr SH, dk gy* tr **MDST,** gn-gy* tr pyr	1.22	441	4	56	.67	50						
3693-702	Ctgs	MDST, dk gy* 20% MDST, med gy* tr MDST, **gy-brn**	-											
3702-711	Ctgs	MDST, med gy* 20% MDST, mod **brn+** 10% **SH,** dk **gy+** tr CALT	-											
3711-720	Ctgs	MDST, med gy* 10% MDST, dk gy* mnr MDST, mod brn	1.09											
3720-729	Ctgs	SH, dk gy* 30% SH, med gy* 10% MDST, mod **brn+** tr SST* tr MDST gn-gy	1.00	439	13	20	.35	130						
3729-738	Ctgs	SH, dk gy* mnr MDST, med gy* tr MDST, mod brn * tr CALT+ tr pyr	-											
3738-747	Ctgs	SH, dk gy* 10% MDST, med gy* 10% MDST, mod brn* tr pyr	.85											
3747-756	Ctgs	SH, dk **gy+** 20% MDST, med gy* mnr MDST, mod **brn+** tr SND	-											
3756-765	Ctgs	SH, dk gy* 20% MDST, med gy* tr SND* tr MDST, mod brn	.88											
3765-774	Ctgs	**MDST,** med gy* 40% **SH,** dk gy* mnr MDST, mod brn + tr SND* tr pyr	-											
3774-783	Ctgs	MDST, **med-dk** gy, calc* 10% SH, dk gy* tr pyr	.84											
3783-792	Ctgs	**MDST,** med-dk gy, calc* 30% SH, dk gy* tr **MDST,** mod **brn+** tr pyr	-											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2F

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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)	fe* (ppm)	EXT*. % OC	HC %oOC	HC %EX	ALK. %HC
3792-801	Ctgs	MDST, med-dk gy* 20% SH, dk gy+ tr MDST, mod brn + tr pyr	.72											
	P	SH, dk gy	1.11	446	18	9	.33	200						
3801-810	Ctgs	MDST, med-dk gy* 30% SH, dk gy+ tr MDST, mod brn * tr , pnk-gy	•											
3810-819	Ctgs	MDST, med-dk gy, calc* 10% SH, dk gy+ mnr MDST, mod brn	.86											
3819-828	Ctgs	MDST, med-dk gy, calc+ 40% SH, dk gy+ 10% MDST, mod brn	•											
3828-837	Ctgs	MDST, med-dk gy, calc+ 20% SH, dk gy+ 10% MDST, mod brn	.71											
3837-846	Ctgs	MDST, med-dk gy, calc+ mnr SH, dk gy+ mnr MDST, mod brn* mnr LST, yel-gy	-											
3846-855	Ctgs	MDST, med-dk gy, calc+ 10% SH, dk gy+ 10% LST, lt ol-gy+ mnr MDST, mod brn	.65											
3855-864	Ctgs	MDST, med-dk gy, calc* 20% SH, dk gy* 10% LST, lt ol-gy+ mnr MDST, mod brn* tr MDST, gn-gy	-											
3864-873	Ctgs	MDST, gy-blk+ 20% SH, dk gy* mnr MDST, mod brn * mnr MDST, lt ol-gy, calc* tr pyr	2.25											
	P	MDST, gy-blk	4.29	444	139	20	.26	6000						
	P	SH, dk gy	.99											
3873-882	Ctgs	MDST, gy-blk* 10% SH, dk gy* tr MDST, mod brn	4.54	443	149	20	.31	6800	7450	5925	16.4	130	80	35
	Ctgs	After extraction	4.02	449	109	13	.01	4400						
3882-891	Ctgs	MDST, gy-blk* 10% SH, dk gy* mnr MDST, mod brn	4.25	442	129	23	.34	5510						
3891-900	Ctgs	MDST, gy-blk+ 30% SH, dk gy* mnr MDST, mod brn	3.43											
	P	MDST, gy-blk	5.40	443	158	18	.31	8540	8540	7005	15.8	129	82	66
	P	After extraction	4.79	452	105	12	.02	5060						
3900-909	Ctgs	MDST, gy-blk* 30% SH, dk gy* mnr MDST, mod brn + tr MDST, gn-gy	3.56	443	115	21	.37	4110						

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2G

COMPANY: MOBIL NORWAY **WELL:** 6407/5-1 **LOCATION:** NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA											
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF IROCK	PYROLYSIS					SOLVENT EXTRACTION/FRACTIONATION					
				Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %oOC	HC %EX	ALK. %HC
3909-918	Ctgs	**MDST, gy-blk+ 20% SH,** dk **gy+** mnr MDST, mod brn * tr SST, lt gy	4.00	441	117	24	.39	4680	6730	5630	16.8	140	84	68
	Ctgs	After extraction	3.45	446	83	15	.02	2890						
3918-927	Ctgs	**MDST, gy-blk+** 20% **SH,** dk **gy+** tr MDST, mod brn * tr LST, lt gy	3.80	440	127	18	.35	4830	6325	5120	16.6	134	81	69
	Ctgs	After extraction	3.31	445	84	16	.02	2790						
3927-936	Ctgs	MDST, gy-blk* 30% SH, dk gy* tr MDST, mod brn * tr pyr* tr SST, lt **ol-gy**	3.34	442	108	23	.37	3630						
3936-945	Ctgs	MOST, gy-blk* 40% SH, dk **gy+** tr MDST, mod brn * tr pyr* tr SST, lt ol-gy	2.28											
3945-954	Ctgs	MOST, **gy-blk+** 40% SH, dk **gy+** tr SST, lt ol-gy * tr **glc+** tr MDST, mod brn	2.87	444	82	26	.32	2360	3075	2545	10.7	88	83	66
3954-963	Ctgs	**MDST,** gy-blk+ 30% **MDST,** dk **gy+** mnr MDST, mod brn * tr **SST,** lt ol-gy* tr pyr	3.06											
	P	MDST, **gy-blk**	5.06	441	80	24	.38	4060	6000	5035	11.9	99	84	67
	P	MDST, dk gy	1.18											
3963-972	Ctgs	**SH,** dk **gy+** 10% **MDST, med-dk** gy* mnr MDST, **gy-blk+** mnr MDST, mod brn* tr pyr	1.11											
3967.0	Core	CLYST, dk gy	4.71	445	85	10	.43	4040	6275		13.3			
3968.0	Core	CLYST, dk gy	4.52											
3971.0	Core	CLYST, dk gy	4.88	451	126	12	.33	6180						
3972-981	Ctgs	**MDST,** gy-blk* 30% **SH,** dk gy* mnr MDST, mod brn * tr **SST+** tr pyr	1.79	446	40	37	.35	720						
3972.0	Core	CLYST, dk gy	4.84											
3973.0	Core	CLYST, dk gy	4.64	454	127	13	.33	5900	6275	5560	13.5	119	89	73
	Core	After extraction	3.96	460	90	5	.02	3580						
3981-990	Ctgs	MDST, gy-blk* 10% SH, dk gy* mnr MDST, mod brn * mnr MOST, lt gy, calc	3.16											
	P	MDST, gy-blk	4.40	446	52	22	.43	2290	3585	3030	8.1	68	85	70
3990-999	Ctgs	MDST, gy-blk* mnr SH, dk gy* tr MDST, mod brn + tr **SST+** tr CALT	3.73	449	41	21	.44	1550						

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2H

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
3999-4008	Ctgs	MDST, **gy-blk+** mnr MDST, **ol-gy,** slty* tr SH, dk gy* tr MDST, mod brn	4.48	447	54	21	.40	2430	3990	3120	8.9	69	78	65
4008-017	Ctgs	**MDST, gy-blk+ 10% MDST,** dk **gy+** tr MDST, v lt gy * tr **MDST,** mod brn	3.83	445	46	18	.43	1790						
4017-026	Ctgs	**MDST,** gy-blk* mnr MDST, dk **gy+** tr MDST, mod brn * tr **SST+** tr LCM	3.58											
4026-035	Ctgs	MDST, **gy-blk+ 20%** SH, dk **gy+** mnr MDST, mod brn * mnr **LCM+** tr SST	2.82											
	P	**MDST, gy-blk**	4.06	443	54	17	.40	2210						
	P	SH, dk gy	1.33											
4035-044	Ctgs	**MDST,** gy-blk* 20% SH, dk gy* tr MDST, mod brn * tr CALT+ tr LCM	3.37	448	43	28	.43	1450						
4044-053	Ctgs	MDST, gy-blk+ 30% SH, dk gy* mnr MDST, med gy * tr SST* tr MDST, mod brn	3.12											
4053-062	Ctgs	MDST, gy-blk* mnr SH, dk gy* tr MDST, med gy* tr MDST, mod brn* tr SST	4.25	450	53	27	.44	2270	4400	3690	10.4	86	84	69
4062-071	Ctgs	**MDST,** gy-blk* mnr MDST, **med-lt** gy, calc* mnr MDST, mod **brn+** tr **glc+** tr SST	3.56											
4071-080	Ctgs	MDST, gy-blk* mnr **SH,** med gy* tr MDST, mod brn * tr pyr	5.77	454	55	18	.46	3180						
4080-089	Ctgs	MDST, **gy-blk+ 10%** MDST, dk gy* mnr **MDST, med-dk** gy* tr SST, lt gy * tr pyr	6.34	456	**58**	22	.43	3700	6225	4855	9.8	76	78	66
4089-098	Ctgs	**MDST, gy-blk+** mnr MDST, dk gy* tr MDST, med gy* tr SST, lt gy* tr **glc**	7.05	458	67	15	.37	4780	5695	4585	8.1	65	81	**58**
4098-107	Ctgs	MDST, **gy-blk+** 10% MDST, dk gy* 10% MDST, med gy * mnr **MDST,** mod brn* tr SST, lt gy	4.51											
	P	MDST, gy-blk	7.78	458	92	14	.29	7180	6380	5065	8.2	65	79	65
	P	After extraction	7.42	465	60	7	.03	4520						
4107-116	Ctgs	SH, dk **gy+** 30% MDST, med-dk gy* mnr MDST, mod brn* tr pyr* tr SST, lt ol-gy, **mic**	2.26	456	36	20	.31	830						
	P	SH, dk gy	2.37											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : **2I**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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	HC %EX	ALK. %HC
4107-116	P	**MDST, med-dk** gy	.98											
4116-125	Ctgs	**SH,** dk **gy+** 30% **MDST, med-dk** gy, **calc+** mnr MOST, mod **brn+** tr SST, lt gy	1.43											
4125-134	Ctgs	MDST, med gy, **calc+ 40%** MDST, dk **gy+** mnr MOST, mod **brn+** tr CALT	1.42											
	P	MOST, med gy, calc	.91											
	P	MDST, dk gy	2.72	457	54	13	.23	1490	1375		5.1			
4134-143	Ctgs	MDST, dk **gy+** 40% MOST, med-dk **gy+** mnr MDST, mod red* tr SST, lt **gy+** tr **pyr**	1.36											
4143-152	Ctgs	MOST, med-dk **gy+** mnr **MDST,** mod brn* tr SST, lt gy* tr SLTST, lt **gy+** tr pyr	1.46	451	23	18	.31	340						
4152-161	Ctgs	SH, dk gy, **calc+** mnr MDST, **med-lt** gy, **mic+** mnr MDST, mod brn* tr SST, lt gy* tr pyr	1.35											
4161-170	Ctgs	SH, dk gy, calc* 10% **MDST, med-lt** gy* mnr MDST, mod brn* tr SST, lt gy* tr pyr	1.55	457	21	41	.31	340	525	405	3.4	26	77	60
4170-179	Ctgs	SH, dk gy* mnr **MDST,** mod **brn+** mnr **SST,** lt gy + tr **pyr+** tr **glc**	1.44											
4179-188	Ctgs	SH, dk gy* 20% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt gy* tr COAL	1.26	447	20	24	.30	260						
4181.0	**Swc**	CLYST, dk gy, mic	1.33											
4188-197	Ctgs	SH, dk gy* 20% SH, med-dk gy* mnr MDST, mod brn* tr MDST, **gy-blk** carb* tr SST, lt gy	.71											
	P	SH, dk gy	1.26											
	P	**SH,** med-dk gy	.82											
4197-206	Ctgs	SH, dk gy* 10% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt **gy+** tr **SND**	1.24	450	14	20	.36	180						
4206-215	Ctgs	SH, dk gy* mnr MDST, mod brn* tr SST, lt gy* tr pyr	1.21											
4207.0	Core	SST, lt gy, mic	.33											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2J

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA											
				PYROLYSIS :					SOLVENT EXTRACTION/FRACTIONATION					
SAMPLE DEPTH (Metres)	SAMPLE TYPE	; ANALYSED LITHOLOGY	TOC % OF ROCK	Tmax °C	HI	OI	PI	POT.YLD. (ppm)	EXTR. (ppm)	HC (ppm)	EXTR. % OC	HC %oOC	HC %EX	ALK. %HC
4211.0	Core	SST, lt gy, mic	.47											
4215-224	Ctgs	SH, dk gy+ 40% SND+ mnr MOST, mod brn+ tr pyr	.87											
	P	SH, dk gy	1.88	455	40	7	.25	760						
4224-233	Ctgs	SST, yel-gy+ 10% SH, dk gy* tr MDST, mod brn + tr , gn-gy	.47											
4233-242	Ctgs	SST, yel-gy+ mnr MDST, dk gy+ tr MDST, mod brn + tr MDST, ol-gy	.30											
4242-252	Ctgs	SST, yel-gy* mnr SH, dk gy* mnr SH, gy-blk+ tr MDST, mod brn+ tr MDST, ol-gy	.26											
4252-260	Ctgs	SST, yel-gy+ 30% SH, dk gy+ mnr MDST, mod brn + tr GYP+ tr SH, gy-blk	.57											
	P	SH, dk gy	1.83	456	44	8	.25	820	955		5.2			
4260-269	Ctgs	SST, yel-gy* mnr SH, dk gy+ tr SH, gy-blk+ tr MDST, mod brn+ tr MDST, ol-gy	.33											
4269-278	Ctgs	SST, yel-gy+ mnr SH, dk gy* mnr SH, gy-blk* tr MDST, mod brn	.38											
4278-287	Ctgs	SST, yel-gy* mnr SH, dk gy+ mnr SH, gy-blk* tr MDST, mod brn	.30											
4287-296	Ctgs	SST, yel-gy+ mnr MDST, lt gy* mnr MDST, dk gy* tr SH, gy-blk* tr MDST, mod brn	.35											
4296-306	Ctgs	SST, yel-gy+ tr SH, dk gy+ tr MDST, lt gy+ tr SH, gy-blk+ tr MDST, mod brn	.29											

SUMMARY OF CHEMICAL ANALYSIS DATA

TABLE : 2K

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
3010-020	Ctgs	MDST, dk gy* 20% **SST+** mnr MDST **gy-red+** tr **LST,** pnk-gy	.73								
3030-040	Ctgs	MDST, dk gy* mnr SST, med gy* mnr LST, pnk-gy* tr **pyr**	.81								
3050-060	Ctgs	**SH,** dk **gy+** 20% **MDST,** med gy* tr SND	.81								
3070-080	Ctgs	SH, dk **gy+** mnr **CALT+** mnr MDST, pal **yel-brn**	.74								
	P	SH, dk gy	.86								
3080-090	Ctgs	**SH,** dk **gy+** tr CALT+ tr pyr	.84								
3090-100	Ctgs	SH, dk **gy+** tr pyr* tr MDST, v lt gy	.96	100	180	1300	18	135	.36	430	.14
3110-120	Ctgs	**SH,** dk gy* mnr SST* tr CALT* tr MDST, v lt gy	.84								
3140-150	Ctgs	SH, dk gy* mnr MDST, med gy* tr SST	.87								
3160-170	Ctgs	SH, dk gy* mnr **MDST,** med **gy+** mnr SST	.89	100	410	1360	46	152	.20	435	.30
3180-190	Ctgs	SH, dk **gy+** tr CALT* tr SST	.79								
3200-210	Ctgs	SH, dk **gy+** 10% MDST, lt **ol-gy,** sndy* mnr SST	.76								
3220-230	Ctgs	MDST, dk **gy+** mnr SST* mnr SND	.90								
3240-250	Ctgs	SH, dk gy* mnr SND	.97	70	150	420	15	43	.32	434	.36
3260-270	Ctgs	**SH,** dk gy* 10% SND* mnr **MDST,** med gy	.91								
3270-279	Ctgs	SH, dk gy* 20% SND* 10% MDST, med gy	.94								
3290-300	Ctgs	SH, dk **gy+** 30% MDST, **med-dk** gy	.91								
3310-320	Ctgs	SH, dk gy* 20% MDST, med-dk gy + mnr MDST, gn-gy	.83								
	P	SH, dk gy	.98	70	210	110	21	11	.25	435	1.91
3330-340	Ctgs	MDST, med gy* 20% SH, dk gy	.72								
3350-360	Ctgs	**MDST,** med gy* 20% SH, dk gy* mnr MDST, mod brn* tr LST, wht	.79								
3360-370	Ctgs	MDST, med gy* 30% SH, dk gy	.75								
	P	SH, dk gy	1.00	90	260	100	26	10	.26	434	2.60
3380-390	Ctgs	MDST, med gy* 40% SH, dk gy* tr pyr	.85								
3400-410	Ctgs	SH, dk gy* tr mic	.99	60	130	380	13	38	.32	429	.34
3410-420	Ctgs	SH, med-dk gy* tr MDST, *mod* brn* tr MDST, med gy	.89								

ORGANIC CARBON AND **ROCK-EVAL PYROLYSIS** DATA

TABLE : 3A

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
3430-440	Ctgs	SH, **med-dk gy+** tr **MDST,** lt gy + tr MDST, mod brn	.88								
3450-459	Ctgs	**SH,** med-dk **gy+** tr MDST, lt gy * tr **LST,** wht	.91								
3459-468	Ctgs	**SH,** med **gy+** 10% MDST, dk gy* tr **SST+** tr MDST, mod brn	.82								
3477-486	Ctgs	SH, med-dk **gy+** tr SST	.84								
	P	SH, med-dk gy	1.12	100	160	90	14	8	.38	437	1.78
3486-495	Ctgs	SH, med-dk **gy+** tr pyr* tr MDST mod brn* tr **CALT**	.84								
3504-513	Ctgs	SH, med-dk gy* tr MDST, mod **brn+** tr DOL, **ol-blk**	.89								
3513-522	Ctgs	SH, med-dk **gy+** tr MDST, mod brn* tr SST	.97	60	120	580	12	59	.33	436	.21
3531-540	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr CALT* tr pyr	.85								
	P	SH, med-dk gy	1.01	40	180	40	17	3	.18	435	4.50
3549-558	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr LST, **yel-gy+** tr DOL, ol-blk	.93								
3567-576	Ctgs	SH, med-dk **gy+** mnr MDST, dk gy * tr MDST, mod brn* tr pyr* tr LST, lt gy	.96								
3585-594	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr **pyr+** tr LST, ol-blk	1.01	90	90	360	8	35	.50	432	.25
	P	SH, med-dk gy	1.16								
3594-603	Ctgs	**MDST,** dk gy* tr MDST, gy-brn* tr DOL, **gy-blk**	1.16								
3600.0	Swc	CLYST, dk gy, mic	1.87	570	380	380	20	20	.60	442	1.00
3612-621	Ctgs	SH, dk gy* mnr **MDST, gn-gy+** tr MDST, **gy-brn+** tr CALT* tr SST, med gy	1.99								
	P	SH, dk gy	1.34								
3621-630	Ctgs	SH, dk gy* mnr MDST, gn-gy* tr MDST, gy-brn* tr SST, med gy* tr CALT	2.56	720	2440	510	95	19	.23	434	4.78
3639-648	Ctgs	MDST, **gy-blk+** 20% SH, dk gy* 10X **SND+** tr SST, med gy* tr CALT	2.49	660	2060	670	82	26	.24	437	3.07
3648-657	Ctgs	MDST, gy-blk* 40% SH, dk gy* tr SST, med gy* tr pyr	2.10								
	P	MDST, gy-blk	3.36	810	3680	620	109	18	.18	436	5.94
	P	SH, dk gy	1.39								

ORGANIC CARBON AND **ROCK-EVAL** PYROLYSIS DATA

TABLE : **3B**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

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
3650.0	Swc	CLYST, gy-blk, slty	4.61	3160	7960	860	172	18	.28	439	9.26
	Swc	After extraction	4.00	100	5860	500	146	12	.02	442	11.72
3660.0	Swc	CLYST, gy-blk	1.81								
3666-675	Ctgs	MDST, med gy+ 10% SH, dk gy+ tr CALT+ tr SST, med gy	.86								
3670.0	Swc	CLYST, gy-blk	1.69								
3684-693	Ctgs	MDST, dk gy+ 10% MDST, med gy * tr SH, dk gy+ tr MDST, gn-gy * tr pyr	1.22	100	50	690	4	56	.67	441	.07
3711-720	Ctgs	MOST, med gy+ 10% MDST, dk gy * mnr MDST, mod brn	1.09								
3720-729	Ctgs	SH, dk gy+ 30% SH, med gy+ 10% MDST, mod brn+ tr SST+ tr MDST gn-gy	1.00	70	130	200	13	20	.35	439	.65
3738-747	Ctgs	SH, dk gy+ 10% MDST, med gy* 10% MDST, mod brn+ tr pyr	.85								
3756-765	Ctgs	SH, dk gy+ 20% MDST, med gy* tr SND+ tr MDST, mod brn	.88								
3774-783	Ctgs	MDST, med-dk gy, calc+ 10% SH, dk gy+ tr pyr	.84								
3792-801	Ctgs	MDST, med-dk gy* 20% SH, dk gy * tr MDST, mod brn* tr pyr	.72								
	P	SH, dk gy	1.11	100	200	110	18	9	.33	446	1.82
3810-819	Ctgs	MDST, med-dk gy, calc+ 10% SH, dk gy* mnr MOST, mod brn	.86								
3828-837	Ctgs	MDST, med-dk gy, calc* 20% SH, dk gy+ 10% MDST, mod brn	.71								
3846-855	Ctgs	MDST, med-dk gy, calc* 10% SH, dk gy+ 10% LST, lt ol-gy+ mnr MDST, mod brn	.65								
3864-873	Ctgs	MDST, gy-blk+ 20% SH, dk gy* mnr MDST, mod brn+ mnr MDST, lt ol-gy, calc+ tr pyr	2.25								
	P	MDST, gy-blk	4.29	2110	6000	880	139	20	.26	444	6.82
	P	SH, dk gy	.99								
3873-882	Ctgs	MDST, gy-blk* 10% SH, dk gy* tr MDST, mod brn	4.54	3090	6800	920	149	20	.31	443	7.39
	Ctgs	After extraction	4.02	40	4400	540	109	13	.01	449	8.15
3882-891	Ctgs	MDST, gy-blk* 10% SH, dk gy+ mnr MDST, mod brn	4.25	2800	5510	980	129	23	.34	442	5.62
3891-900	Ctgs	MDST, gy-blk* 30% SH, dk gy* mnr MDST, mod brn	3.43								
	P	MDST, gy-blk	5.40	3820	8540	1000	158	18	.31	443	8.54

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3C

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA								
SAMPtE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS							
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	fet	Tmax °C	S2/S3
3891-900	P	After extraction	4.79	100	5060	620	105	12	.02	452	8.16
3900-909	Ctgs	MDST, **gy-blk+** 30% **SH,** dk gy* mnr MDST, mod brn* tr MDST, **gn-gy**	3.56	2410	4110	750	115	21	.37	443	5.48
3909-918	Ctgs	MDST, gy-blk+ 20% SH, dk gy* mnr MDST, mod brn* tr SST, lt gy	4.00	2980	4680	980	117	24	.39	441	4.78
	Ctgs	After extraction	3.45	50	2890	550	83	15	.02	446	5.25
3918-927	Ctgs	MDST, gy-blk* 20% SH, dk **gy+** tr MDST, mod brn* tr LST, lt gy	3.80	2620	4830	710	127	18	.35	440	6.80
	Ctgs	After extraction	3.31	50	2790	540	84	16	.02	445	5.17
3927-936	Ctgs	MDST, **gy-blk+** 30% SH, dk gy* tr MDST, mod **brn+** tr pyr* tr SST, lt ol-gy	3.34	2120	3630	770	108	23	.37	442	4.71
3936-945	Ctgs	MDST, **gy-blk+** 40% SH, dk gy* tr MDST, mod brn* tr pyr* tr SST, lt ol-gy	2.28								
3945-954	Ctgs	MDST, **gy-blk+** 40% SH, dk gy* tr SST, lt ol-gy* tr **glc+** tr **MDST,** mod brn	2.87	1110	2360	750	82	26	.32	444	3.15
3954-963	Ctgs	MDST, gy-blk* 30% MDST, dk gy * mnr MDST, mod brn* tr SST, lt ol-gy* tr pyr	3.06								
	P	MDST, gy-blk	5.06	2500	4060	1260	80	24	.38	441	3.22
	P	MDST, dk gy	1.18								
3963-972	Ctgs	SH, dk gy* 10% MDST, **med-dk** gy + mnr MDST, gy-blk* mnr MDST, mod brn* tr pyr	1.11								
3967.0	Core	CLYST, dk gy	4.71	3100	4040	480	85	10	.43	445	8.42
3968.0	Core	CLYST, dk gy	4.52								
3971.0	Core	CLYST, dk gy	4.88	3080	6180	600	126	12	.33	451	10.30
3972-981	Ctgs	MOST, **gy-blk+** 30% SH, dk **gy+** mnr MDST, mod **brn+** tr **SST+** tr pyr	1.79	390	720	680	40	37	.35	446	1.06
3972.0	Core	CLYST, dk gy	4.84								
3973.0	Core	CLYST, dk gy	4.64	2940	5900	640	127	13	.33	454	9.22
	Core	After extraction	3.96	60	3580	220	90	5	.02	460	16.27
3981-990	Ctgs	MOST, **gy-blk+** 10% SH, dk **gy+** mnr MDST, mod brn* mnr MOST, lt gy, calc	3.16								
	P	MDST, gy-blk	4.40	1720	2290	980	52	22	.43	446	2.34

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3D

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA									
SAMPLE DEPTH V (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS								
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3
3990-999	Ctgs	MDST, **gy-blk+** mnr SH, dk gy* tr MDST, mod brn* tr **SST+** tr CALT	3.73	1220	1550	790	41	21	.44	449	1.96
3999-4008	Ctgs	**MDST,** gy-blk* mnr MDST, **ol-gy, slty+** tr **SH,** dk **gy+** tr MDST, mod brn	4.48	1630	2430	970	54	21	.40	447	2.51
4008-017	Ctgs	MDST, **gy-blk+ 10%** MDST, dk gy + tr MDST, v lt gy* tr MDST, mod brn	3.83	1350	1790	710	46	18	.43	445	2.52
4017-026	Ctgs	MDST, gy-blk+ mnr MDST, dk gy + tr MDST, mod **brn+** tr **SST+** tr **LCM**	3.58								
4026-035	Ctgs	MDST, **gy-blk+** 20% SH, dk gy* mnr MOST, mod **brn+** mnr LCM* tr SST	2.82								
	P	MDST, **gy-blk**	4.06	1470	2210	730	54	17	.40	443	3.03
	P	SH, dk gy	1.33								
4035-044	Ctgs	MDST, **gy-blk+ 20%** SH, dk **gy+** tr MDST, mod **brn+** tr CALT* tr LCM	3.37	1080	1450	950	43	28	.43	448	1.53
4044-053	Ctgs	MDST, **gy-blk+** 30% SH, dk gy* mnr **MDST,** med **gy+** tr **SST+** tr MDST, mod brn	3.12								
4053-062	Ctgs	MDST, **gy-blk+** mnr SH, dk **gy+** tr MDST, med **gy+** tr MDST, mod brn* tr SST	4.25	1750	2270	1160	53	27	**.44**	450	1.96
4062-071	Ctgs	MDST, **gy-blk+** mnr MDST, **med-lt** gy, calc* mnr MDST, mod brn* tr **glc+** tr SST	3.56								
4071-080	Ctgs	MDST, gy-blk* mnr SH, med **gy+** tr MDST, mod **brn+** tr pyr	5.77	2660	3180	1040	55	18	.46	454	3.06
4080-089	Ctgs	MDST, gy-blk* 10% MDST, dk gy + mnr MDST, **med-dk** gy* tr SST, lt gy* tr pyr	6.34	2820	3700	1400	58	22	.43	456	2.64
4089-098	Ctgs	**MDST, gy-blk+** mnr MDST, dk gy * tr MDST, med **gy+** tr SST, **lt gy+** tr **glc**	7.05	2760	4780	1120	67	15	.37	458	4.27
4098-107	Ctgs	MDST, gy-blk* 10% MDST, dk gy + 10% MDST, med gy* mnr MDST, mod **brn+** tr SST, lt gy	4.51								
	P	MDST, gy-blk	7.78	2960	7180	1160	92	14	.29	458	6.19
	P	After extraction	7.42	120	4520	540	60	7	.03	465	8.37
4107-116	Ctgs	SH, dk gy* 30% MDST, med-dk gy * mnr MDST, mod brn* tr pyr* tr SST, lt ol-gy, **mic**	2.26	370	830	470	36	20	.31	456	1.77
	P	**SH**, dk gy	2.37								
	P	**MDST**, med-dk gy	.98								

ORGANIC CARBON AND **ROCK-EVAL** PYROLYSIS DATA

TABLE : 3E

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC % OF ROCK	PYROLYSIS S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3
4116-125	Ctgs	**SH,** dk **gy+ 30% MDST, med-dk** gy **calc+** mnr MOST, mod **brn+** tr SST, lt gy	1.43								
4125-134	Ctgs	**MDST,** med **gy, calc+** 40% **MDST,** dk **gy+** mnr **MDST,** mod brn* tr CALT	1.42								
	P	**MDST,** med gy, calc	.91								
	P	MOST, dk gy	2.72	440	1490	380	54	13	.23	457	3.92
4134-143	Ctgs	MDST, dk **gy+** 40% **MDST, med-dk gy+** mnr MOST, mod red* tr SST, lt gy* tr pyr	1.36								
4143-152	Ctgs	**MDST,** med-dk **gy+** mnr MDST, mod brn* tr SST, lt gy* tr SLTST, lt gy* tr pyr	1.46	150	340	270	23	18	.31	451	1.26
4152-161	Ctgs	SH, dk gy, **calc+** mnr MDST, **med-lt** gy, mic* mnr MDST, mod brn* tr SST, lt **gy+** tr pyr	1.35								
4161-170	Ctgs	SH, dk gy, **calc+** 10% **MDST, med-lt** gy* mnr MDST, mod brn* tr SST, lt **gy+** tr pyr	1.55	150	340	650	21	41	.31	457	.52
4170-179	Ctgs	SH, dk **gy+** mnr MDST, mod brn* mnr SST, lt gy* tr pyr* tr **glc**	1.44								
4179-188	Ctgs	SH, dk **gy+** 20% SH, med-dk **gy+** mnr MDST, mod **brn+** tr SST, lt gy* tr COAL	1.26	110	260	310	20	24	.30	447	.84
4181.0	Swc	CLYST, dk gy, **mic**	1.33								
4188-197	Ctgs	**SH,** dk **gy+** 20% **SH,** med-dk gy* mnr MDST, mod **brn+** tr **MDST, gy-blk,** carb* tr SST, lt gy	.71								
	P	SH, dk gy	1.26								
	P	SH, med-dk gy	.82								
4197-206	Ctgs	SH, dk **gy+** 10% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt gy* tr **SND**	1.24	100	180	260	14	20	.36	450	.69
4206-215	Ctgs	SH, dk gy* mnr MDST, mod brn* tr SST, lt **gy+** tr pyr	1.21								
4207.0	Core	SST, lt gy, mic	.33								
4211.0	Core	SST, lt gy, mic	.47								
4215-224	Ctgs	SH, dk gy* 40% **SND+** mnr MDST, mod brn* tr pyr	**.87**								
	P	SH, dk gy	1.88	250	760	150	40	7	.25	455	5.07
4224-233	Ctgs	SST, **yel-gy+** 10% SH, dk gy* tr **MDST,** mod brn* tr , **gn-gy**	.47								

CHEMICAL ANALYSIS DATA

ORGANIC CARBON AND **ROCK-EVAL** PYROLYSIS DATA

TABLE : **3F**

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			CHEMICAL ANALYSIS DATA									
i SAMPLE; DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	TOC X OF ROCK	PYROLYSIS							
				S1 (ppm)	S2 (ppm)	S3 (ppm)	HI	OI	PI	Tmax °C	S2/S3
4233-242	Ctgs	SST, yel-gy+ mnr MDST, dk gy+ tr MDST, mod brn+ tr MDST, ol-gy	.30								
4242-252	Ctgs	SST, yel-gy+ mnr SH, dk gy+ mnr SH, gy-blk+ tr MDST, mod brn* tr MDST, ol-gy	.26								
4252-260	Ctgs	SST, yel-gy+ 30% SH, dk gy+ mnr MDST, mod brn+ tr GYP+ tr SH, gy-blk	.57								
	P	SH, dk gy	1.83	280	820	150	44	8	.25	456	5.47
4260-269	Ctgs	SST, yel-gy+ mnr SH, dk gy+ tr SH, gy-blk+ tr MDST, mod brn+ tr MDST, ol-gy	.33								
4269-278	Ctgs	SST, yel-gy+ mnr SH, dk gy+ mnr SH, gy-blk+ tr MDST, mod brn	.38								
4278-287	Ctgs	SST, yel-gy+ mnr SH, dk gy+ mnr SH, gy-blk+ tr MDST, mod brn	.30								
4287-296	Ctgs	SST, yel-gy+ mnr MDST, lt gy+ mnr MDST, dk gy+ tr SH, gy-blk + tr MDST, mod brn	.35								
4296-306	Ctgs	SST, yel-gy+ tr SH, dk gy+ tr MDST, lt gy+ tr SH, gy-blk+ tr MDST, mod brn	.29								

ORGANIC CARBON AND ROCK-EVAL PYROLYSIS DATA

TABLE : 3G

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
1030-060	Ctgs	SND, **crs+** 30% MDST, lt ol-gy, **sndy+** 10% **SST+** 10% CMT* tr mic	99.8		.1	.1		8200	.2	19.3
1150-180	Ctgs	SND, **crs+** 30% MDST, lt ol-gy, **sndy+** mnr SST* tr **mic**	99.8		.1	.1		4400	.2	6.5
1270-300	Ctgs	MDST, lt ol-gy, **sndy+** 10% SND, crs* tr pyr* tr **glc**	98.1		1.8	.1		31000	1.9	2.9
1390-420	Ctgs	MDST, lt ol-gy, slty	96.6	2.8	.4	.1	.1	11000	3.4	2.0
1510-540	Ctgs	MDST, lt ol-gy, slty* 40% MDST, ol-gy* mnr SND, crs + mnr pyr	94.5	5.2	.3			17000	5.5	2.6
1630-660	Ctgs	MDST, lt **ol-gy+** mnr MDST, ol-gy* mnr SND, crs* tr pyr	92.6	7.0	.3			18000	7.4	2.3
1750-780	Ctgs	MDST, lt Ol-gy* 10% MDST, ol-gy* tr SND, crs	93.3	6.2	.4	.1		8100	6.7	1.9
1870-900	Ctgs	MDST, lt ol-gy* mnr SST, **gy-orng**	82.1	13.2	3.9	.4	.4	18000	17.9	1.0
1990-2020	Ctgs	MDST, lt **ol-gy+** 30% MOST, **gy-red+** 10% MDST, ol-gy, **slty+** tr SND, crs	59.4	15.7	11.9	6.0	7.0	13500	40.6	.9
2080-110	Ctgs	MDST, med gy* 40% MDST, **lt** gn-gy* mnr MDST, **brn-gy**	**83.2**	11.6	3.5	.8	.7	6600	16.8	1.1
2170-200	Ctgs	MDST, med-dk gy* 30% MDST, lt ol-gy, sndy* mnr SND* tr glc	89.9	8.4	1.2	.3	.2	7300	10.1	1.3
2280-290	Ctgs	MOST, **ol-gy+** 10% MDST, **gy-red+** tr pyr* tr glc	87.2	10.3	1.6	.6	.3	6500	12.8	2.0
2340-350	Ctgs	MDST, med **gy+** 20% SST* mnr pyr* mnr **MDST, gy-red+** tr glc	89.6	7.0	1.5	1.3	.6	4100	10.4	2.0
2460-470	Ctgs	MDST, med **gy+** 30% MOST, med gy, sndy* 10% **SST+** tr MDST, **gy-red+** tr pyr	88.2	5.9	2.7	2.2	1.0	4200	11.8	2.2
2550-560	Ctgs	MDST, med **gy+** 30% MDST, med gy, sndy* 20% **SST+** tr MDST, gyred* tr pyr	88.8	5.9	2.7	1.8	.8	7200	11.2	2.2
2640-650	Ctgs	LST, med gy* 20% MDST, med gy, sndy* 20% **SST+** 10% MDST, dk gy	84.0	6.9	4.9	3.0	1.2	4700	16.0	2.5
2730-740	Ctgs	MDST, med **gy+** 10% **MDST,** dk gy* 10% **SST+** tr LST, **pnk-gy+** tr pyr	84.5	5.9	4.6	3.8	1.2	3300	15.5	3.2
2820-830	Ctgs	MOST, med-dk **gy+** mnr MOST, gyred* tr SND* tr LST, pnk-gy	79.8	6.5	6.4	5.3	2.0	2800	20.2	2.7

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4A

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
2910-920	Ctgs	MDST, **med gy+** mnr MDST, **med-dk** gy, **calc+** tr **pyr**	78.5	5.9	7.5	6.0	2.0	1400	21.5	2.9
3000-010	Ctgs	MDST, med-dk **gy+ 40%** MDST, **med-dk** gy, **sndy+** tr pyr* tr LST, **pnk-gy+** tr **SND**	80.8	7.4	6.6	3.3	1.9	1200	19.2	1.8
3010-020	Ctgs	MDST, dk gy* **20% SST+** mnr MDST, **gy-red+** tr LST, **pnk-gy**	90.4	5.6	6.8	4.5	2.7	930	9.6	1.7
3020-030	Ctgs	MDST, dk **gy+** 10% SST, med gy	88.7	3.7	3.8	2.3	1.4	1300	11.3	1.6
3030-040	Ctgs	MDST, dk gy* mnr SST, med **gy+** mnr LST, **pnk-gy+** tr pyr	82.3	7.0	6.0	3.0	1.8	1500	17.7	1.7
3040-050	Ctgs	SH, dk **gy+** 10% MDST, med gy* mnr LST, pnk-gy* tr **SND**	83.1	6.1	5.8	3.2	1.8	1800	16.9	1.8
3050-060	Ctgs	SH, dk **gy+** 20% MDST, med **gy+** tr **SND**	83.6	5.8	5.4	3.3	1.9	2000	16.4	1.7
3060-070	Ctgs	SH, dk **gy+** 10% CALT* mnr MDST, mod brn	90.0	5.2	2.9	1.2	.7	1850	10.0	1.8
3070-080	Ctgs	SH, dk **gy+** mnr CALT+ mnr MDST, pal **yel-brn**	82.5	6.7	5.6	3.3	1.9	810	17.5	1.7
3080-090	Ctgs	SH, dk gy* tr CALT* tr pyr	90.0	6.4	2.4	.8	.4	3500	10.0	1.7
3090-100	Ctgs	SH, dk gy* tr pyr* tr MDST v lt gy	62.6	18.2	13.1	7.5	6.5	120	37.4	1.2
3100-110	Ctgs	**SH,** dk gy* tr CALT* tr pyr + tr SST	85.6	8.4	4.2	1.2	.6	3850	14.4	2.1
3110-120	Ctgs	SH, dk **gy+** mnr **SST+** tr CALT* tr MDST, v lt gy	84.0	9.6	4.4	1.4	.7	3150	16.0	1.9
3120-130	Ctgs	SH, dk **gy+** mnr **SST+** tr MDST, dk **gn-gy**	72.7	10.0	10.4	4.0	2.8	1550	27.3	1.4
3130-140	Ctgs	SH, dk gy+ mnr MDST, med **gy+** tr SST	66.5	10.8	13.1	5.3	4.3	700	33.5	1.2
3140-150	Ctgs	SH, dk **gy+** mnr MDST, med **gy+** tr SST	79.3	7.9	7.6	3.0	2.2	2700	20.7	1.4
3150-160	Ctgs	SH, dk **gy+** mnr MDST, med gy* tr **SST+** tr MDST, **gy-red**	74.7	9.8	9.5	3.6	2.5	1900	25.3	1.5
3160-170	Ctgs	SH, dk gy* mnr MDST, med gy* mnr SST	78.5	7.4	8.2	3.2	2.6	1600	21.5	1.3
3170-180	Ctgs	SH, dk gy* mnr MDST, pal yel-brn* mnr MDST, med gy	73.5	9.5	10.5	3.6	2.9	1100	26.5	1.2
3180-190	Ctgs	SH, dk gy* tr CALT* tr SST	80.4	8.2	7.3	2.3	1.8	1800	19.6	1.3
3190-200	Ctgs	SH, dk gy* 10% MDST, lt gy * mnr SST* tr CALT	76.0	8.8	9.5	2.9	2.8	1300	24.0	1.0

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4B

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
3200-210	Ctgs	SH, dk gy+ 10% MDST, lt ol-gy, sndy+ mnr SST	84.7	8.0	5.2	1.2	.9	2700	15.3	1.3
3210-220	Ctgs	MDST, dk gy+ tr SND* tr LST, pnk-gy	85.0	6.8	5.4	1.4	1.3	1700	15.0	1.1
3220-230	Ctgs	MDST, dk gy* mnr SST+ mnr SND	82.0	10.2	5.6	1.2	1.0	2500	18.0	1.2
3230-240	Ctgs	SH, dk gy+ tr SST	83.8	7.5	5.9	1.5	1.2	2300	16.2	1.2
3240-250	Ctgs	SH, dk gy* mnr SND	86.5	9.6	3.0	.5	.4	5400	13.5	1.2
3250-260	Ctgs	SH, dk gy+ 10% MDST, med gy+ 10% SND+ tr pyr	85.7	9.6	3.4	.6	.6	3700	14.3	1.1
3260-270	Ctgs	SH, dk gy* 10% SND+ mnr MDST, med gy	85.2	9.4	3.9	.8	.7	3400	14.8	1.1
3270-279	Ctgs	SH, dk gy+ 20% SND+ 10% MDST, med gy	80.6	10.9	5.8	1.3	1.4	1800	19.4	.9
3279-290	Ctgs	SH, dk gy+ mnr MDST, med gy* tr SND	80.8	9.4	6.3	1.6	1.9	1500	19.2	.9
3290-300	Ctgs	SH, dk gy* 30% MDST, med-dk gy	89.3	6.6	4.5	1.2	1.4	1000	10.7	.9
3300-310	Ctgs	SH, dk gy+ 30% MDST, med-dk gy* mnr MDST, mod brn	84.2	6.7	4.6	2.4	2.1	200	15.8	1.2
3310-320	Ctgs	SH, dk gy* 20% MDST, med-dk gy+ mnr MDST, gn-gy	20.7	24.7	25.2	.1	29.4	850	79.3	
3320-330	Ctgs	MDST, med gy+ 30% SH, dk gy* tr SND+ tr MDST, mod brn+ tr pyr	63.3	13.6	11.1	2.1	9.9	200	36.7	.2
3330-340	Ctgs	MOST, med gy* 20% SH, dk gy	86.1	6.5	3.8	1.8	1.9	650	13.9	.9
3340-350	Ctgs	MOST, med gy+ 30% SH, dk gy+ mnr MOST, mod brn	91.7	5.0	2.0	.7	.6	1500	8.3	1.1
3350-360	Ctgs	MDST, med gy+ 20% SH, dk gy+ mnr MDST, mod brn* tr LST, wht	89.6	5.9	2.6	.9	1.0	650	10.4	.9
3360-370	Ctgs	MDST, med gy+ 30% SH, dk gy	60.9	12.6	11.2	8.9	6.3	50	39.1	1.4
3370-380	Ctgs	MDST, med gy+ 30% SH, dk gy+ tr CALT* tr MDST, mod brn	88.8	7.2	2.3	.9	.9	800	11.2	1.0
3380-390	Ctgs	MDST, med gy+ 40% SH, dk gy+ tr pyr	87.7	8.8	2.9	.3	.3	550	12.3	1.2
3390-400	Ctgs	SH, dk gy* tr CALT* tr LST ol-gy+ tr MDST, mod brn	89.6	8.3	1.4	.3	.4	1000	10.4	.8
3400-410	Ctgs	SH, dk gy+ tr mic	86.2	10.0	2.4	.8	.6	1300	13.8	1.5
3410-420	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr MDST, med gy	93.4	5.3	1.0	.2	.2	3200	6.6	1.1

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4C

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

GENERAL DATA			AIRSPACE GASEOUS HYDROCARBON DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSIS LITHOLOGY	RELATIVE GASEOUS HYDROCARBON COMP. ABUND. %					TOTAL ABUNDANCE (ppm)	TOTAL C2-C4 (%)	RATIO i-C4/ n-C4
			C1	C2	C3	i-C4	n-C4			
3420-430	Ctgs	SH, med-dk gy+ tr MDST, dk gn-gy, slty+ tr MDST, lt gy	89.5	8.6	1.1	.5	.2	2200	10.5	2.0
3430-440	Ctgs	SH, med-dk gy* tr MDST, lt gy+ tr MDST, mod brn	90.8	7.0	1.5	.4	.3	1200	9.2	1.2
3440-450	Ctgs	SH, med-dk gy* 10% MDST, med gy+ mnr MDST, lt ol-gy * mnr MOST, mod brn	85.6	10.2	2.6	1.0	.6	1800	14.4	1.7
3450-459	Ctgs	SH, med-dk gy+ tr MDST, lt gy* tr LST, wht	54.7	17.4	17.1	6.1	4.6	50	45.3	1.3
3459-468	Ctgs	SH, med gy+ 10% MDST, dk gy* tr SST* tr MDST, mod brn	92.1	7.4	.3	.1	.1	5000	7.9	1.1
3468-477	Ctgs	SH, med-dk gy* tr SST* tr glc	90.4	9.3	.2			4600	9.6	
3477-486	Ctgs	SH, med-dk gy+ tr SST	86.9	12.4	.5	.1		550	13.1	
3486-495	Ctgs	SH, med-dk gy* tr pyr* tr MDST, mod brn* tr CALT	87.0	12.4	.3	.1	.1	2550	13.0	1.1
3495-504	Ctgs	SH, med-dk gy* tr pyr* tr MDST, mod brn	82.2	16.8	.7	.3		1450	17.8	
3504-513	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr DOL, ol-blk	84.7	14.0	.8	.3	.2	2050	15.3	1.6
3513-522	Ctgs	SH, med-dk gy* tr MOST, mod brn* tr SST	77.5	21.7	8.7	2.3	.1	3000	22.5	23.0
3522-531	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr CALT+ tr SST	70.6	27.7	1.3	.2	.2	2500	29.4	1.0
3531-540	Ctgs	SH, med-dk gy* tr MDST, mod brn+ tr CALT+ tr pyr	78.2	20.4	1.1	.2	.1	6200	21.8	1.8
3540-549	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr DOL, ol-blk* tr pyr	66.9	28.0	4.6	.2	.2	1750	33.1	.9
3549-558	Ctgs	SH, med-dk gy+ tr MDST, mod brn* tr LST, yel-gy+ tr DOL, ol-blk	67.0	28.0	4.8	.1	.2	4900	33.0	.5
3558-567	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr pyr* tr LST, lt gy	58.0	30.8	10.2	.4	.6	6200	42.0	.7
3567-576	Ctgs	SH, med-dk gy* mnr MDST, dk gy* tr MDST, mod brn* tr pyr* tr LST, lt gy	53.1	30.4	14.3	.8	1.3	6500	46.9	.6
3576-585	Ctgs	SH, med-dk gy* tr MDST, lt gy* tr SST* tr pyr+ tr MDST, mod brn	56.5	24.7	15.6	1.1	2.1	7200	43.5	.5
3585-594	Ctgs	SH, med-dk gy* tr MDST, mod brn* tr pyr* tr LST, ol-blk	52.3	23.9	18.9	1.6	3.4	8400	47.7	.5

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4D

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
3594-603	Ctgs	MOST, dk gy* tr MDST, **gy-brn+** tr DOL, **gy-blk**	48.3	20.6	21.8	2.6	6.7	8150	51.7	.4
3603-612	Ctgs	SH, dk gy* 30% MDST, gn-gy + **10%** LST, v lt **gy+** tr MDST, **gy-brn**	67.8	12.1	7.7	3.0	9.4	6650	32.2	.3
3612-621	Ctgs	SH, dk gy* mnr MDST, gn-gy * tr MDST, **gy-brn+** tr CALT + tr SST, med gy	35.7	11.5	21.5	6.9	24.4	20000	64.3	.3
3621-630	Ctgs	SH, dk **gy+** mnr MDST, gn-gy * tr MDST, **gy-brn+** tr SST, med gy* tr CALT	53.8	12.5	16.2	3.7	13.7	26000	46.2	.3
3630-639	Ctgs	**SH,** dk gy* mnr MDST, gn-gy + tr pyr* tr SST, med **gy+** tr CALT	33.6	12.5	24.3	5.9	23.7	14000	66.4	.2
3639-648	Ctgs	MDST, **gy-blk+ 20%** SH, dk gy* **10%** SND+ tr **SST,** med gy* tr CALT	34.6	13.1	25.8	5.8	20.7	29000	65.4	.3
3648-657	Ctgs	MDST, **gy-blk+ 40%** SH, dk **gy+** tr SST, med gy* tr pyr	44.4	14.9	20.1	4.4	16.2	9900	55.6	.3
3657-666	Ctgs	MDST, med **gy+** 30% SH, dk gy* tr **MDST, gy-brn+** tr **glc+** tr DOL, **ol-blk**	51.3	14.6	16.7	3.9	13.5	9300	48.7	.3
3666-675	Ctgs	MDST, med gy* 10% SH, dk **gy+** tr CALT* tr SST, med gy	50.4	15.8	17.6	3.6	12.6	8000	49.6	.3
3675-684	Ctgs	MDST, dk gy* mnr MDST, med gy* mnr SH, dk **gy+** tr MDST, gn-gy* tr pyr	44.4	19.1	20.5	3.7	12.3	7650	55.6	.3
3684-693	Ctgs	**MDST,** dk **gy+** 10% MDST, med gy* tr SH, dk gy* tr **MDST,** gn-gy* tr pyr	**61.3**	18.1	12.6	1.9	6.1	3900	38.7	.3
3693-702	Ctgs	**MDST,** dk gy* 20% MDST, med **gy+** tr MDST, **gy-brn**	61.8	17.5	12.7	1.8	6.2	3000	38.2	.3
3702-711	Ctgs	MDST, med gy* 20% MOST, mod brn* 10% SH, dk **gy+** tr CALT	56.5	19.6	14.9	2.0	7.1	3700	43.5	.3
3711-720	Ctgs	MDST, med gy* 10% **MDST,** dk gy* mnr MDST, mod brn	53.7	28.7	11.8	1.3	4.5	3800	46.3	.3
3720-729	Ctgs	SH, dk **gy+** 30% SH, med gy + 10% MOST, mod brn* tr **SST+** tr MDST, gn-gy	67.7	19.9	8.4	1.1	2.9	6600	32.3	.4
3729-738	Ctgs	SH, dk gy* mnr MDST, med **gy+** tr MDST, mod brn* tr CALT+ tr pyr	59.2	23.8	11.4	1.4	4.1	5400	40.8	.3
3738-747	Ctgs	SH, dk **gy+** 10% MDST, med gy* 10% **MDST,** mod brn + tr pyr	56.1	24.8	13.1	1.7	4.2	5800	43.9	.4

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4E

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
3747-756	Ctgs	SH, dk gy+ 20% MDST, med gy* mnr MDST, mod brn + tr SND	57.5	24.4	12.4	1,5	4.1	2600	42.5	.4
3756-765	Ctgs	SH, dk gy* 20% MDST, med gy+ tr SND* tr MDST, mod brn	61.9	24.6	9.7	1.1	2.8	2700	38.1	.4
3765-774	Ctgs	MDST, med gy* 40% SH, dk gy* mnr MDST, mod brn* tr SND+ tr pyr	72.7	19.4	5.9	.7	1.4	4200	27.3	.5
3774-783	Ctgs	MDST, med-dk gy, calc* 10% SH, dk gy+ tr pyr	71.9	20.4	5.7	.6	1.4	6600	28.1	.4
3783-792	Ctgs	MDST, med-dk gy, calc* 30% SH, dk gy* tr MDST, mod brn+ tr pyr	67.6	23.7	6.6	.6	1.6	4400	32.4	.4
3792-801	Ctgs	MDST, med-dk gy* 20% SH, dk gy* tr MDST, mod brn* tr pyr	59.7	29.3	8.4	.8	1.9	2300	40.3	.4
3801-810	Ctgs	MDST, med-dk gy* 30% SH, dk gy* tr MDST, mod brn* tr , pnk-gy	60.4	27.5	9.1	.9	2.1	3700	39.6	.4
3810-819	Ctgs	MDST, med-dk gy, calc+ 10% SH, dk gy* mnr MDST, mod brn	57.2	27.9	10.6	1.3	3.0	5300	42.8	.4
3819-828	Ctgs	MDST, med-dk gy, calc* 40% SH, dk gy+ 10% MDST, mod brn	65.9	24.1	7.4	.8	1.8	3700	34.1	.4
3828-837	Ctgs	MDST, med-dk gy, calc* 20% SH, dk gy* 10% MDST, mod brn	58.6	28.4	9.1	1.2	2.7	2900	41.4	.4
3837-846	Ctgs	MDST, med-dk gy, calc+ mnr SH, dk gy+ mnr MDST, mod brn* mnr LST, yel-gy	57.4	31.4	7.9	1.0	2.2	5000	42.6	.5
3846-855	Ctgs	MDST, med-dk gy, calc* 10% SH, dk gy* 10% LST, lt ol-gy+ mnr MDST, mod brn	63.4	28.7	5.9	.6	1.3	4200	36.6	.5
3855-864	Ctgs	MDST, med-dk gy, calc+ 20% SH, dk gy* 10% LST, lt ol-gy+ mnr MDST, mod brn+ tr MDST, gn-gy	44.5	18.6	14.6	5.1	17.1	13000	55.5	.3
3864-873	Ctgs	MDST, gy-blk+ 20% SH, dk gy+ mnr MDST, mod brn* mnr MDST, lt ol-gy, calc+ tr pyr	23.2	17.0	29.8	6.7	23.2	41000	76.8	.3
3873-882	Ctgs	MDST, gy-blk+ 10% SH, dk gy* tr MDST, mod brn	18.1	16.7	33.6	6.8	24.8	44000	81.9	.3
3882-891	Ctgs	MDST, gy-blk+ 10% SH, dk gy+ mnr MDST, mod brn	21.2	17.8	30.7	6.6	23.8	31000	78.8	.3
3891-900	Ctgs	MDST, gy-blk* 30% SH, dk gy* mnr MDST, mod brn	22.9	17.6	31.8	6.1	21.6	54000	77.1	.3

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4F

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
3900-909	Ctgs	MDST, **gy-blk+** 30% SH, dk gy* mnr MDST, mod brn* tr **MDST, gn-gy**	24.4	17.9	**26.8**	6.3	24.6	17800	75.6	.3
3909-918	Ctgs	MDST, **gy-blk+** 20% SH, dk gy* mnr MDST, mod brn* tr SST, lt gy	27.4	18.1	28.0	5.8	20.7	38000	72.6	.3
3918-927	Ctgs	MDST, **gy-blk+** 20% SH, dk **gy+** tr MDST, mod brn* tr LST, lt gy	27.6	17.1	27.5	5.8	22.0	30900	72.4	.3
3927-936	Ctgs	MDST, gy-blk* 30% SH, dk gy* tr **MDST,** mod **brn+** tr **pyr+** tr SST, lt ol-gy	32.5	16.9	25.1	5.3	20.2	25800	67.5	.3
3936-945	Ctgs	**MDST, gy-blk+** 40% SH, dk gy* tr MDST, mod brn* tr pyr* tr SST, lt ol-gy	38.4	20.7	22.0	4.2	14.7	17300	61.6	.3
3945-954	Ctgs	MDST, **gy-blk+** 40% SH, dk gy* tr SST, lt ol-gy* tr **glc+** tr MDST, mod brn	30.1	16.5	26.4	6.2	20.9	26200	69.9	.3
3954-963	Ctgs	**MDST,** gy-blk* 30% MDST, dk **gy+** mnr MDST, mod **brn+** tr SST, lt ol-gy+ tr pyr	28.9	19.1	29.4	5.1	17.4	56000	**71.1**	.3
3963-972	Ctgs	SH, dk **gy+** 10% MDST, **med-dk** gy* mnr MDST, **gy-blk+** mnr MDST, mod brn + tr pyr	30.8	22.3	25.2	4.6	17.1	5600	69.2	.3
3972-981	Ctgs	**MDST, gy-blk+** 30% SH, dk gy* mnr MDST, mod brn* tr **SST+** tr pyr	26.9	17.9	27.7	6.3	21.2	28600	73.1	.3
3981-990	Ctgs	MDST, gy-blk* 10% SH, dk **gy+** mnr MDST, mod **brn+** mnr MDST, lt gy, calc	37.2	18.5	23.6	4.9	15.8	33700	**62.8**	.3
3990-999	Ctgs	MDST, gy-blk* mnr **SH,** dk **gy+** tr MDST, mod brn* tr **SST+** tr CALT	44.0	19.3	20.2	4.0	12.6	36700	56.0	.3
3999-4008	Ctgs	MDST, gy-blk* mnr MDST, ol-gy, **slty+** tr SH, dk gy + tr **MDST,** mod brn	37.4	18.0	23.6	5.0	15.9	24700	62.6	.3
4008-017	Ctgs	MDST, **gy-blk+** 10% MDST, dk gy* tr MDST, v lt gy* tr MDST, mod brn	23.2	16.6	29.6	7.4	23.1	26900	76.8	.3
4017-026	Ctgs	MDST, **gy-blk+** mnr MDST, dk gy* tr MDST, mod brn* tr SST* tr LCM	30.5	17.6	26.6	6.1	19.1	32900	69.5	.3
4026-035	Ctgs	MDST, **gy-blk+** 20% SH, dk gy* mnr MDST, mod brn* mnr **LCM+** tr SST	31.1	16.6	25.2	6.6	20.4	29800	68.9	.3
4035-044	Ctgs	MDST, **gy-blk+** 20% SH, dk gy* tr MDST, mod brn* tr CALT+ tr LCM	33.9	17.7	25.6	5.8	16.9	27200	66.1	.3

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4G

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
4044-053	Ctgs	MOST, **gy-blk+** 30% SH, dk **gy+** mnr MOST, med gy* tr **SST+** tr MOST, mod brn	25.8	16.5	27.3	7.7	22.7	16500	74.2	.3
4053-062	Ctgs	MOST, **gy-blk+** mnr SH, dk gy* tr MOST, med gy* tr MDST, mod brn* tr SST	21.1	15.7	30.6	8.5	24.1	34000	78.9	.4
4062-071	Ctgs	MOST, gy-blk* mnr MDST, **med-lt** gy, **calc+** mnr MDST, mod **brn+** tr glc* tr SST	16.9	14.7	30.8	9.9	27.6	28700	83.1	.4
4071-080	Ctgs	MOST, gy-blk+ mnr SH, med **gy+** tr MDST, mod brn* tr **pyr**	26.6	18.7	30.8	6.7	17.2	39300	73.4	.4
4080-089	Ctgs	MDST, **gy-blk+ 10%** MDST, dk gy* mnr MDST, **med-dk** gy + tr SST, lt gy* tr pyr	25.2	19.6	31.9	6.9	16.5	48900	74.8	.4
4089-098	Ctgs	MDST, gy-blk* mnr MDST, dk **gy+** tr MDST, med **gy+** tr SST, lt **gy+** tr **glc**	29.9	20.9	29.9	6.0	13.3	62900	70.1	.4
4098-107	Ctgs	MDST, **gy-blk+** 10% MDST, dk **gy+** 10% MDST, med gy* mnr MDST, mod brn* tr **SST,** lt gy	39.2	24.4	22.5	3.9	10.1	30500	60.8	.4
4107-116	Ctgs	SH, dk **gy+** 30% MDST, **med-dk gy+** mnr MDST, mod **brn+** tr pyr* tr **SST,** lt **ol-gy,** mic	46.3	21.7	20.3	3.5	8.2	32400	53.7	.4
4116-125	Ctgs	SH, dk **gy+** 30% MDST, **med-dk** gy, **calc+** mnr MDST, mod brn* tr SST, lt gy	46.6	23.8	19.2	3.2	7.2	21300	53.4	.5
4125-134	Ctgs	MOST, med **gy, calc+** 40% MOST, dk gy* mnr MOST, mod brn* tr CALT	48.3	26.2	17.4	2.4	5.6	16300	51.7	.4
4134-143	Ctgs	MDST, dk gy* 40% MOST, med-dk **gy+** mnr MOST, mod **red+** tr SST, lt gy* tr pyr	42.0	26.9	20.2	3.3	7.6	21100	58.0	.4
4143-152	Ctgs	MDST, med-dk gy* mnr MDST, mod brn* tr SST, lt gy* tr SLTST, lt **gy+** tr pyr	36.4	28.1	22.8	3.8	8.8	25300	63.6	.4
4152-161	Ctgs	SH, dk gy, calc* mnr MDST, **med-lt** gy, **mic+** mnr MDST, mod brn* tr SST, lt gy* tr pyr	38.0	28.7	21.5	3.6	8.3	32100	62.0	.4
4161-170	Ctgs	SH, dk gy, calc* 10% MDST, **med-lt** gy* mnr MDST, mod brn* tr SST, lt gy* tr pyr	46.0	24.8	18.2	3.5	7.2	31800	54.0	.5
4170-179	Ctgs	SH, dk gy* mnr MDST, mod brn* mnr SST, lt gy* tr **pyr+** tr glc	39.9	28.1	20.9	3.5	7.6	22000	60.1	.5

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4H

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN 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			
4179-188	Ctgs	SH, dk gy+ 20% SH, med-dk gy* mnr MDST, mod brn* tr SST, lt gy+ tr COAL	50.6	25.0	15.6	2.7	6.1	17000	49.4	.4
4188-197	Ctgs	SH, dk gy+ 20% SH, med-dk gy+ mnr MDST, mod brn+ tr MDST, gy-blk, carb* tr SST, lt gy	46.7	24.6	16.8	4.1	7.8	15400	53.3	.5
4197-206	Ctgs	SH, dk gy+ 10% SH, med-dk gy+ mnr MDST, mod brn* tr SST, lt gy+ tr SND	45.4	26.0	17.6	3.6	7.5	23600	54.6	.5
4206-215	Ctgs	SH, dk gy+ mnr MDST, mod brn+ tr SST, lt gy* tr pyr	45.6	28.8	17.6	2.6	5.5	25800	54.4	.5
4215-224	Ctgs	SH, dk gy* 40% SND* mnr MDST, mod brn+ tr pyr	36.6	29.9	21.5	3.9	8.1	10100	63.4	.5
4224-233	Ctgs	SST, yel-gy+ 10% SH, dk gy * tr MDST, mod brn+ tr , gn-gy	36.3	26.7	23.1	4.3	9.6	6750	63.7	.4
4233-242	Ctgs	SST, yel-gy+ mnr MDST, dk gy+ tr MDST, mod brn* tr MDST, ol-gy	20.9	25.5	31.4	7.1	15.1	770	79.1	.5
4242-252	Ctgs	SST, yel-gy* mnr SH, dk gy * mnr SH, gy-blk* tr MDST, mod brn+ tr MDST, ol-gy	39.5	27.3	21.2	3.6	8.4	5880	60.5	.4
4252-260	Ctgs	SST, yel-gy+ 30% SH, dk gy + mnr MDST, mod brn+ tr GYP* tr SH, gy-blk	33.7	26.6	24.9	4.5	10.4	7460	66.3	.4
4260-269	Ctgs	SST, yel-gy* mnr SH, dk gy * tr SH, gy-blk+ tr MDST, mod brn* tr MDST, ol-gy	34.2	28.2	23.4	4.3	10.0	5960	65.8	.4
4269-278	Ctgs	SST, yel-gy+ mnr SH, dk gy * mnr SH, gy-blk* tr MDST, mod brn	35.3	29.8	22.5	3.9	8.5	8720	64.7	.5
4278-287	Ctgs	SST, yel-gy* mnr SH, dk gy * mnr SH, gy-blk+ tr MDST, mod brn	30.0	30.1	25.2	5.3	9.4	940	70.0	.6
4287-296	Ctgs	SST, yel-gy+ mnr MDST, lt gy* mnr MDST, dk gy+ tr SH, gy-blk+ tr MDST, mod brn	35.5	31.0	22.3	3.3	7.9	11000	64.5	.4
4296-306	Ctgs	SST, yel-gy+ tr SH, dk gy * tr MDST, lt gy* tr SH, gy-blk+ tr MDST, mod brn	38.6	30.1	20.9	3.4	7.0	8120	61.4	.5

AIRSPACE GASEOUS HYDROCARBON ANALYSIS DATA

TABLE : 4I

COMPANY: MOBIL NORWAY **WELL:** 6407/5-1 **LOCATION:** NORWEGIAN SEA

DEPTH: (METRES)	1870-1900	1990-2020	2170-2200	3080-3090	3140-3150	3240-3250	3410-3420
GASOLINE HYDROCARBON COMPONENTS	RELATIVE GASOLINE HYDROCARBON COMPONENT ABUNDANCES (%)						
i-BUTANE	11.91	3.58	5.48	10.86	6.78	6.76	4.95
n-BUTANE	19.72	8.07	7.24	21.78	13.64	16.06	7.88
i-PENTANE	10.15	11.57	8.58	5.81	5.40	4.07	3.03
n-PENTANE	5.90	8.76	7.60	10.84	10.59	8.66	4.55
2,2-DIMETHYLBUTANE	2.48	0.73	0.79	0.37	0.16	0.65	0.18
CYCLOPENTANE	2.19	0.36	0.34	1.14	0.95	0.36	0.11
2,3-DIMETHYLBUTANE	3.69	1.67	0.62	1.27	0.89	0.55	0.64
2-METHYLPENTANE	0.44	5.97	5.36	3.64	3.73	2.69	1.61
3-METHYLPENTANE	1.65	5.52	1.65	2.36	2.16	1.27	0.86
n-HEXANE	3.32	9.48	7.53	7.34	8.06	5.58	3.22
2,2-DIMETHYLPENTANE/ METHYLCYCLOPENTANE	5.32	4.24	7.14	1.41	1.53	1.31	1.08
2,4-DIMETHYLPENTANE	0.37	0.85	0.51	0.32	0.47	0.21	0.22
BENZENE	1.39	0.11	2.33	9.01	8.87	22.59	54.16
3,3-DIMETHYLPENTANE	0.15	0.25	0.19	0.25	0.19	0.02	0.13
CYCLOHEXANE	1.49	3.96	1.77	1.43	1.40	1.57	0.79
2-METHYLHEXANE	1.79	5.50	2.48	1.20	1.98	0.63	0.69
1,1-DIMETHYLCYCLOPENTANE	0.21	1.23	0.35	0.11	0.12	0.35	0.13
3-METHYLHEXANE	1.24	4.52	1.88	0.72	1.38	0.43	0.37
1,*cis*-3-DIMETHYLCYCLOPENTANE	1.47	2.02	2.81	0.28	0.28	0.21	0.23
1,*trans*-3-DIMETHYLCYCLOPENTANE	1.34	1.85	2.29	0.25	0.14	0.79	0.25
1,*trans*-2-DIMETHYLCYCLOPENTANE	2.51	2.51	4.90	0.79	0.70	0.73	0.46
3-ETHYLPENTANE							
n-HEPTANE	3.19	5.86	6.10	2.40	5.68	3.71	1.74
1,*cis*-2-DIMETHYLCYCLOPENTANE/ METHYLCYCLOHEXANE	9.46	9.54	10.50	2.08	3.11	2.51	1.66
ETHYLCYCLOPENTANE	1.11	0.93	2.02	0.39	0.40	0.42	0.29
TOLUENE	7.54	1.04	9.57	13.98	21.42	17.88	10.78
TOTAL ABUNDANCE (ppb)	810	10150	215	1630	2580	880	805
ORGANIC CARBON (%)	–	–	–	0.84	0.87	0.97	0.89
GASOLINE ABUNDANCE AT 1% ORGANIC CARBON	–	–	–	1940	2965	905	905

Note: Total gasoline abundance values are expressed as weight of gas **relative** to weight of wet rock.

TABLE 5A Gasoline Hydrocarbon Analysis Data

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

DEPTH: (METRES)	3459-3468	3486-3495	3531-3540	3585-3594	3612-3621	3621-3630	3639-3648
GASOLINE HYDROCARBON COMPONENTS	RELATIVE GASOLINE HYDROCARBON COMPONENT ABUNDANCES (%)						
i-BUTANE	5.55	4.78	8.02	5.59	1.16	0.84	1.46
n-BUTANE	12.12	6.35	8.02	24.26	8.95	6.99	8.91
1- PENTANE	3.28	2.04	3.23	3.65	5.66	4.21	5.94
n-PENTANE	3.11	3.79	4.08	0.16	12.38	10.28	12.29
2,2-DIMETHYL BUTANE	5.04	0.28	0.57	0.10	0.05	0.08	0.09
CYCLOPENTANE	0.45	0.20	0.13	0.02	0.05	1.11	1.41
2,3-DIMETHYL BUTANE	1.40	0.40	0.48	0.96	1.67	0.33	0.43
2-METHYL PENTANE	1.03	1.32	1.46	0.77	5.56	4.93	5.36
3-METHYL PENTANE	0.89	0.78	0.80	0.53	3.76	3.24	3.45
n-HEXANE	2.57	2.79	2.64	1.33	10.43	10.18	10.03
2,2-DIMETHYL PENTANE/ METHYL CYCLOPENTANE	0.72	0.76	0.96	0.88	7.41	6.34	6.54
2,4-DIMETHYL PENTANE	0.05	0.15	0.18	0.11	0.33	0.33	0.31
BENZENE	54.86	67.43	60.28	38.89	1.57	2.99	2.47
3,3-DIMETHYL PENTANE	0.11	0.70	0.07	0.07	0.08	0.08	0.13
CYCLOHEXANE	0.62	0.38	0.57	2.07	6.34	5.52	6.56
2-METHYL HEXANE	0.26	0.36	0.63	0.26	2.09	3.88	2.67
1,1 - DIMETHYL CYCLOPENTANE	0.09	0.09	0.04	0.10	0.87	0.88	0.84
3-METHYL HEXANE	0.50	0.35	0.34	0.20	3.17	3.91	2.60
1, *cis* - 3-DIMETHYL CYCLOPENTANE	0.14	0.26	0.18	0.10	1.68	1.72	1.41
1, *trans* - 3 - DIMETHYL CYCLOPENTANE	0.21	0.16	0.10	0.10	1.95	1.94	1.33
1, *trans* - 2 - DIMETHYL CYCLOPENTANE	0.19	0.35	0.41	0.25	3.55	3.76	2.99
3-ETHYL PENTANE							
n-HEPTANE	1.24	1.06	1.22	0.42	5.95	7.87	5.28
1, *cis*-2-DIMETHYL CYCLOPENTANE/ METHYL CYCLOHEXANE	1.27	1.03	1.53	1.32	10.93	11.75	11.05
ETHYL CYCLOPENTANE	0.27	0.16	0.18	0.06	1.51	1.72	0.84
TOLUENE	4.05	4.07	3.88	17.82	2.90	5.13	5.63
TOTAL ABUNDANCE (ppb)	650	465	490	11620	29675	93115	190335
ORGANIC CARBON (%)	0.82	0.84	0.85	1.01	1.99	2.56	2.49
GASOLINE ABUNDANCE AT 1% ORGANIC CARBON	790	555	575	11505	14910	36375	76440

Note: Total gasoline abundance values are expressed as weight of gas relative to weight of wet rock.

TABLE 53 Gasoline Hydrocarbon Analysis Data

COMPANY: MOBIL NORWAY WELL: 6407/5-1 **LOCATION:** NORWEGIAN SEA

DEPTH: (METRES)	3666-3675	3720-3729	3774-3783	3810-3819	3864-3873	3891-3900	3918-3927
GASOLINE HYDROCARBON COMPONENTS	RELATIVE GASOLINE HYDROCARBON COMPONENT ABUNDANCES (%)						
i – BUTANE	1.34	1.93	2.31	2.29	1.93	1.15	2.33
n – BUTANE	10.37	6.53	11.72	11.01	10.02	5.77	0.65
i – PENTANE	4.15	2.00	5.55	4.29	7.12	3.62	8.67
n – PENTANE	10.85	2.87	8.76	7.26	13.83	6.92	15.34
2, 2 – DIMETHYL BUTANE	0.08	0.26	0.07	0.09	0.08	0.03	0.10
CYCLOPENTANE	1.03	0.69	1.28	1.08	1.23	0.78	1.50
2, 3 – DIMETHYL BUTANE	0.28	0.18	0.36	0.31	0.45	0.22	0.40
2 – METHYL PENTANE	4.07	1.14	3.56	2.98	4.95	2.48	5.64
3 – METHYL PENTANE	2.59	0.80	2.44	2.05	3.04	1.73	3.61
n – HEXANE	9.02	2.53	5.47	4.88	10.65	5.91	12.68
2, 2 – DIMETHYL PENTANE / METHYL CYCLOPENTANE	4.42	2.68	4.65	4.16	6.10	4.93	7.32
2, 4 – DIMETHYL PENTANE	0.35	0.38	0.30	0.40	0.32	0.21	0.34
BENZENE	6.52	21.74	14.84	22.77	0.73	0.99	0.77
3, 3 – DIMETHYL PENTANE	0.14	0.07	0.09	0.08	0.07	0.06	0.06
CYCLOHEXANE	5.20	4.74	6.40	5.79	6.04	8.39	7.19
2 – METHYL HEXANE	2.18	1.48	2.18	1.91	2.81	4.01	2.84
1, 1 - DIMETHYL CYCLOPENTANE	0.71	0.59	0.83	0.66	1.02	1.55	1.04
3 – METHYL HEXANE	2.72	1.39	1.94	1.79	2.68	4.05	2.71
1, *cis* – 3 – DIMETHYL CYCLOPENTANE	1.14	0.87	1.01	0.89	1.34	2.01	1.33
1, *trans* – 3 – DIMETHYL CYCLOPENTANE	1.11	0.87	0.99	0.93	1.42	2.25	1.27
1, *trans* - 2 – DIMETHYL CYCLOPENTANE	2.40	1.71	2.09	1.85	2.18	3.27	2.27
3 – ETHYL PENTANE							
n – HEPTANE	5.81	3.29	3.00	2.96	6.84	9.16	6.35
1, *cis* -2 – DIMETHYL CYCLOPENTANE / METHYL CYCLOHEXANE	11.96	11.54	11.21	10.43	12.16	19.62	11.91
ETHYL CYCLOPENTANE	0.69	0.19	0.50	0.47	0.62	1.05	0.66
TOLUENE	10.26	29.58	8.47	8.69	2.38	9.85	3.02
TOTAL ABUNDANCE (ppb)	32600	1330	30770	7735	45375	13970	304915
ORGANIC CARBON (%)	0.86	1.00	0.84	0.86	2.25	3.43	3.80
GASOLINE ABUNDANCE AT 1% ORGANIC CARBON	37905	1330	36630	8995	20165	4075	80240

Note: Total gasoline abundance values are expressed as weight of gas relative to weight of wet rock.

TABLE 5C Gasoline Hydrocarbon Analysis Data

COMPANY: MOBIL NORWAY **WELL:** 6407/5-1 **LOCATION:** NORWEGIAN SEA

DEPTH: (METRES)	3954-3963	3990-3999	4026-4035	4062-4071	4089-4098	41 16-4125	4152-4161
GASOLINE HYDROCARBON COMPONENTS	RELATIVE GASOLINE **HYDROCARBON** COMPONENT ABUNDANCES (%)						
i - BUTANE	3.02	3.59	3.02	2.96	7.78	7.66	4.70
n - BUTANE	14.73	15.96	13.09	12.29	25.03	13.53	12.96
i - PENTANE	8.38	9.02	8.63	10.33	9.49	6.14	7.14
n - PENTANE	15.85	15.25	14.91	0.06	13.82	9.90	11.12
2, 2 - DIMETHYL BUTANE	0.10	0.14	0.17	0.22	0.14	0.12	0.14
CYCLOPENTANE	1 .26	0.96	0.80	0.75	0.93	0.81	1.03
2, 3 - DIMETHYL BUTANE	0.49	0.60	0.66	0.87	0.45	0.52	0.54
2 - METHYL PENTANE	5.09	5.13	5.07	7.16	3.13	3.76	3.98
3 - METHYL PENTANE	3.11	3.20	3.18	4.29	2.02	2.37	2.56
n - HEXANE	10.58	9.73	10.13	14.10	5.67	6.96	8. 18
2, 2 - DIMETHYL PENTANE / METHYL CYCLOPENTANE	5.47	4.69	4.80	5.19	3.43	3.90	4.91
2, 4 - DIMETHYL PENTANE	0.34	0.32	0.33	0.52	0.16	0.40	0.33
BENZENE	0.60	1.71	1.17	0.52	1.75	4.25	3.04
3, 3 - DIMETHYL PENTANE	0.05	0.13	0.08	0.12	0.06	0.1 1	0.07
CYCLOHEXANE	5.85	6.59	7.93	8.20	7.01	7.52	7.16
2 - METHYL HEXANE	2.25	1.96	2.06	3.16	0.97	1.90	2.10
1, 1 - DIMETHYL CYCLOPENTANE	0.82	0.73	0.75	0.92	0.43	0.69	0.69
3 - METHYL HEXANE	2.14	1.74	1.83	2.73	0.82	1.66	1.89
1, *cis* - 3 - DIMETHYL CYCLOPENTANE	0.96	0.75	0.76	0.94	0.39	0.70	0.79
1, *trans* - 3 - DIMETHYL CYCLOPENTANE	0.90	0.72	0.73	0.89	0.38	0.67	0.75
1, *trans* - 2 - DIMETHYL CYCLOPENTANE	1.62	1.24	1.26	1.58	0.63	1.20	1 .33
3 - ETHYL PENTANE							
n -HEPTANE	4.80	3.65	4.14	6.35	1.79	3.66	4.56
1, *cis* -2 - DIMETHYL CYCLOPENTANE / METHYL CYCLOHEXANE	8.75	8.26	9.77	11.77	6.31	10.73	10.88
ETHYL CYCLOPENTANE	0.27	0.21	0.25	0.31	0.15	0.31	0.38
TOLUENE	2.57	3.74	4.50	3.77	7.27	10.53	8.79
TOTAL ABUNDANCE (ppb)	331210	542530	323985	466280	710405	82230	176150
ORGANIC CARBON (%)	3.06	3.73	2.82	3.56	7.05	1.43	1.35
GASOLINE ABUNDANCE AT 1% ORGANIC CARBON	108240	145450	114890	130980	100770	57505	130480

Note: Total gasoline abundance values are expressed as weight of gas relative to weight of wet rock.

TABLE 5D Gasoline Hydrocarbon Analysis Data

COMPANY: MOBIL NORWAY **WELL:** 6407/5-1 **LOCATION:** NORWEGIAN SEA

DEPTH: (METRES)	4206-4215	4269-4278	4287-4296				
GASOLINE HYDROCARBON COMPONENTS	RELATIVE GASOLINE HYDROCARBON COMPONENT ABUNDANCES (%)						
i – BUTANE	5.74	5.43	5.01				
n – BUTANE	15.60	12.92	12.29				
i – PENTANE	7.99	8.44	7.03				
n – PENTANE	10.40	10.32	9.50				
2, 2 – DIMETHYL BUTANE	0.21	0.33	0.21				
CYCLOPENTANE	0.91	0.69	0.83				
2, 3 – DIMETHYL BUTANE	0.68	0.79	0.59				
2 – METHYL PENTANE	3.68	4.26	4.15				
3 – METHYL PENTANE	2.40	2.79	2.62				
n – HEXANE	7.08	8.27	8.02				
2, 2 – DIMETHYL PENTANE / METHYL CYCLOPENTANE	4.58	4.45	4.59				
2, 4 – DIMETHYL PENTANE	0.30	0.36	0.39				
BENZENE	3.38	2.01	3.43				
3, 3 – DIMETHYL PENTANE	0.10	0.05	0.09				
CYCLOHEXANE	6.34	6.22	6.55				
2 – METHYL HEXANE	2.11	2.59	2.61				
1, 1 - DIMETHYL CYCLOPENTANE	0.62	0.66	0.72				
3 – METHYL HEXANE	1.85	2.21	2.35				
1, *cis* – 3 – DIMETHYL CYCLOPENTANE	0.67	0.70	0.84				
1, *trans* -3 – DIMETHYL CYCLOPENTANE	0.65	0.71	0.78				
1, *trans* - 2 - DIMETHYL CYCLOPENTANE	1.17	1.24	1.48				
3 – ETHYL PENTANE							
n – HEPTANE	4.00	5.00	5.56				
1, *cis* -2 – DIMETHYL CYCLOPENTANE / METHYL CYCLOHEXANE	10.03	11.18	10.88				
ETHYL CYCLOPENTANE	0.25	0.37	0.25				
TOLUENE	9.28	8.03	9.24				
TOTAL ABUNDANCE (ppb)	69260	27305	16955				
ORGANIC CARBON (%)	1.21	0.38	0.35				
GASOLINE ABUNDANCE AT 1% ORGANIC CARBON	57240	71855	48440				

Note: Total gasoline abundance values are expressed as weight of gas relative to weight of wet rock.

TABLE 5E Gasoline Hydrocarbon Analysis Data

TABLE 6

Gasoline Hydrocarbon Ratios

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

DEPTH (METRES)	1	2	3	4	5	6	7	8	9	10	11	12
1870-1900	13.40	0.71	0.15	2.36	14/21/65	13.26	0.26	1.19	1.26	0.62	0.34	1.72
1990-2020	15.49	1.60	0.01	0.18	17/35/48	7.18	1.08	50.18	9.17	2.24	0.61	1.32
2170-2200	17.38	0.55	0.22	1.57	18/22/60	24.26	3.25	0.71	1.10	1.05	0.58	1.13
3080-3090	24.87	1.86	4.33	5.82	27/33/40	11.25	1.54	0.26	0.15	5.21	1.15	0.54
3140-3150	37.39	3.78	2.85	3.77	38/30/31	8.85	1.73	0.24	0.15	5.27	1.83	0.51
3240-3250	32.69	0.62	4.82	9.00	37/17/46	46.41	2.12	0.06	0.14	4.26	1.48	0.47
3410-3420	26.32	1.26	32.65	6.20	28/27/45	17.69	1.86	0.02	0.15	2.98	1.05	0.67
3459-3468	25.89	1.42	43.20	3.27	29/23/48	15.41	1.16	0.02	0.31	3.57	0.98	1.05
3486-3495	25.24	1.04	65.47	3.84	23/37/40	20.49	1.69	0.01	0.25	3.67	1.03	0.54
3531-3540	23.87	2.23	39.40	3.18	25/30/45	8.91	1.82	0.01	0.39	2.75	0.80	0.79
3585-3594	8.62	1.10	29.46	42.43	14/26/60	4.21	1.45	0.01	0.07	1.53	0.32	22.81
3612-3621	15.64	0.84	0.14	0.49	19/23/58	13.89	1.48	2.40	3.77	1.41	0.54	0.46
3621-3630	18.32	1.21	0.25	0.65	21/27/52	11.81	1.52	1.08	2.29	1.61	0.67	0.41
3639-3648	14.85	1.04	0.22	1.07	18/24/58	10.44	1.55	1.40	1.96	1.53	0.48	0.48
3666-3675	16.82	1.33	0.55	1.77	20/24/56	9.64	1.57	0.40	1.17	2.04	0.49	0.38
3720-3729	12.34	0.90	1.88	8.99	15/19/66	9.25	1.43	0.04	0.39	0.94	0.29	0.70
3774-3783	9.94	1.06	1.32	2.83	12/23/65	5.59	1.46	0.16	1.32	1.18	0.27	0.63
3810-3819	10.69	1.09	2.18	2.94	13/23/64	6.16	1.45	0.09	1.20	1.17	0.28	0.59
3864-3873	18.43	1.13	0.06	0.35	22/22/56	12.80	1.63	4.16	5.11	1.75	0.56	0.51
3891-3900	16.55	1.08	0.05	1.08	19/21/60	11.59	1.43	1.75	1.99	1.20	0.47	0.52
3918-3927	16.90	1.16	0.06	0.48	21/23/56	11.10	1.56	4.69	3.94	1.73	0.53	0.57
3954-3963	16.93	1.26	0.07	0.54	21/24/55	10.28	1.64	5.18	3.40	1.93	0.55	0.53
3990-3999	14.12	1.31	0.21	1.02	19/24/57	7.71	1.61	1.87	2.21	2.07	0.44	0.59
4026-4035	14.04	1.36	0.12	1.09	19/22/59	7.41	1.59	2.72	2.17	2.11	0.42	0.58
4062-4071	17.23	1.66	0.04	0.59	22/25/53	7.95	1.67	8.25	3.13	2.72	0.54	172.17
4089-4098	9.48	1.18	0.28	4.06	15/19/66	4.64	1.55	1.15	0.87	1.65	0.28	0.69
4116-4125	12.60	1.34	0.40	2.88	17/21/62	6.43	1.59	0.56	1.02	1.78	0.34	0.62
4152-4161	14.94	1.38	0.28	1.93	19/21/60	7.94	1.55	0.84	1.24	1.67	0.42	0.64
4206-4215	14.43	1.57	0.34	2.32	18/23/59	6.65	1.53	0.71	1.08	1.55	0,.40	0.77
4269-4278	16.18	1.78	0.18	1.61	20/23/57	6.82	1.53	1.39	1.39	1.86	0,.45	0.82
4287-4296	17.36	1.61	0.32	1.66	21/24/55	8.31	1.58	0.76	1.18	1.75	0,.51	0.74

Explanation of ratios:

1 Heptane value (n-heptane % of compounds of cyclohexane to methylcyclohexane inclusive)
2 Isoheptane value (2- + 3-methylhexane/1-cis-3- + 1-trans-3- + 1-trans-2-dimethylcyclopentane)
3 Benzene/methylcyclohexane (late mature index)
4 Toluene/n-heptane (aromaticity index)
5 C_7 composition (n-alkanes/i-alkanes/cyclanes; aromatics excluded)
6 Kerogen type index
7 2-methylpentane/3-methylpentane
8 3-methylpentane/benzene
9 Methylcyclohexane/toluene
10 n-hexane/methylcyclopentane
11 n-heptane/methylcyclohexane
12 i-pentane/n-pentane

TABLE 7

Alkane Gas Chromatography Interpretative Data

COMPANY: MOBIL NORWAY WELL: 6407/5-1 LOCATION: NORWEGIAN SEA

FIGURE	DEPTH (METRES)	FORMATION	Pr/Ph	Pr/n-C_{17}	Ph/n-C_{18}	CPI	COMMENTS
11.1	3160-3170		1.32	0.47	0.43	1.03	Minor indigenous(?) hydrocarbons in organically lean lithology.
11.2	3621-3630		1.30	0.96	0.84	0.95	Early to middle mature sample containing mainly humic kerogen.
11.3	3650(SWC)		1.83	1.11	0.76	1.08	As Figure 11.2.
11.4	3873-3882		1.48	0.69	0.55	1.02	Possible migrant oil stain derived from middle mature source.
11.5	3891-3900(P)		1.26	0.67	0.54	1.01	As Figure 11.4.
11.6	3909-3918		1.28	0.66	0.57	1.01	As Figure 11.4.
11.7	3918-3927		1.40	0.71	0.57	0.93	As Figure 11.4.
11.8	3954-3963(P)		1.35	0.73	0.58	1.04	As Figure 11.4.
11.9	3973(core)		1.71	0.83	0.58	1.02	As Figure 11.4.
11.10	3999-4008		1.72	0.81	0.51	1.01	As Figure 11.4.
11.11	4053-4062		1.74	0.72	0.47	1.01	As Figure 11.4.
11.12	4089-4098		1.85	0.75	0.43	1.00	As Figure 11.4.
11.13	4098-4107(P)		1.62	0.72	0.45	0.92	As Figure 11.4.
11.14	4161-4170		1.65	0.57	0.36	1.05	As Figure 11.4.

Explanation of ratios

Pr/Ph - pristane/phytane ratio
Pr/n-C_{17} - pristane/normal heptadecane ratio
Ph/n-C_{18} - phytane/normal octadecane ratio
CPI - carbon preference index

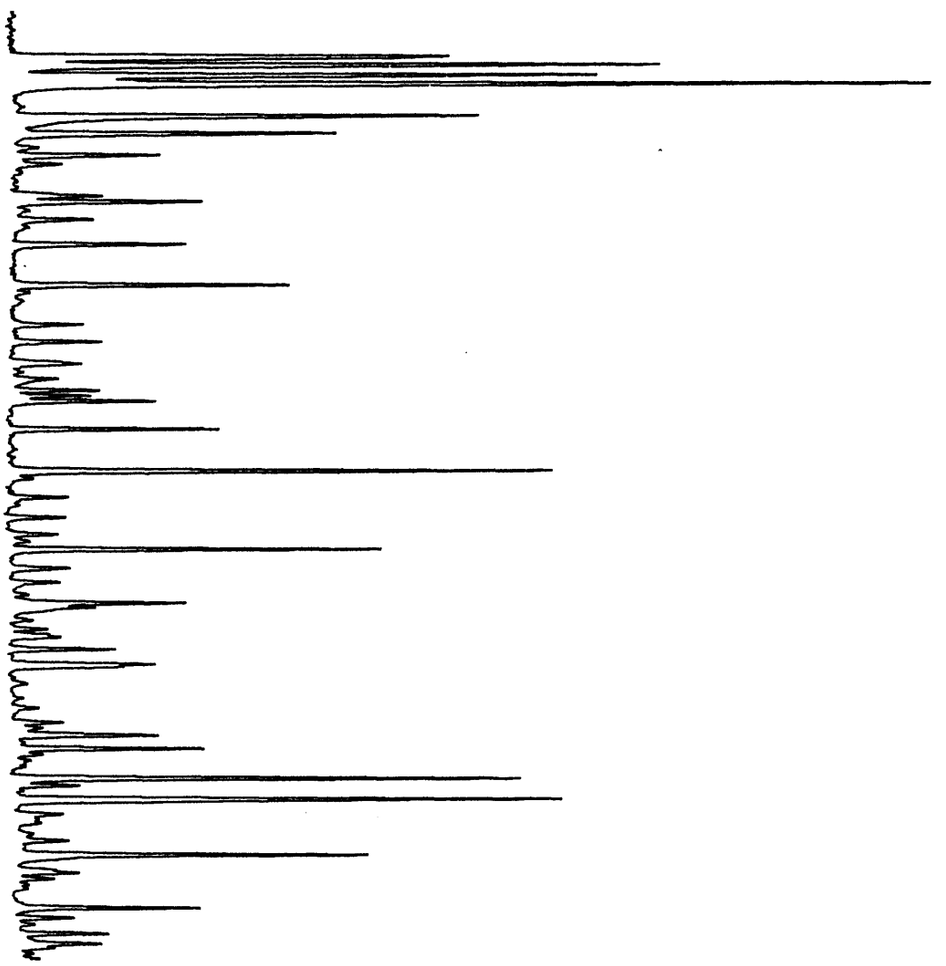
(P) - denotes picked lithology

Trilab 2000 Analysis 4.86
SAMPLE B664 MOBIL NOR 6487/5-1 88C355 (.30R) FIGURE 5.1
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK nONn	%CONC	PEAK NAME
161.4		5.'655	21.891	9.765	11.908	1C4
178. 1		8, 927	34.912	16.172	19.721	NC4
201.9		4. 498	19.145	8.321	10.148	IC5
219.0		3.088	10.455	4.834	5.895	NC5
248.8		i. 395	4.633	2.837	2.484	22DMB
280.8		.866	3.629	1. 795	2.189	CP
286.2		1.850	6.560	3.822	3.685	23DMB
295.8		.143	.842	.359	.437	2MP
304.2		.774	2.907	1.349	1.645	3MP
327.9		1.672	5.406	2.723	3.320	N-HEX
367.5		2.690	8.669	4.361	5.318	MCP/22DMP
375.8		. 173	.597	.305	.472	24DMP
407.1		.685	2.264	1.138	1.388	BEN
417.9		.852	.253	.124	.151	33DMP
423.9		.878	2.688	1.220	1.488	C-HEX
445.5		.679	3.898	1.465	1.786	2MH
453.9		.105	.350	.174	.212	11DMCP
459.9		.456	2.110	1.016	1.239	3MH
471.6		.860	2.564	1.295	1.470	C13DMCP
477.0		.770	2.325	1.893	1.338	T13DMCP
482.4		1.410	4.435	2.055	2.586	T12DMCP3EP
516.3		2.01H	5.588	2.612	3. 186	N-HEP
550.8		5.222	16.255	7.761	9.464	MCH/C12DMC
576.9		.562	1.398	.908	1.187	ECP
628.2		3.583	10.577	6.185	7.543	TOL
				810ppb		

Trilab 2888 Analysis 4.86
SAMPLE B664 MOBIL NOR 6487/5-1 88C355 (.30R)
Plotting factors 99777.766 710.751
99.9



Trilab 2888 Analysis 4.8G
SAMPLE 8665 MOBIL NOR 6487/5-1 88C356 (.30R) FIGURE 5.2
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
161.7		25.954	73.655	36.417	3.577	IC4
170.7		67.913	177.350	82.151	8.070	NC4
283.4		90.483	278.987	117.748	11.566	IC5
228.8		65.858	192.341	89.174	8.759	NP5
251.7		5.373	16.780	7.377	.725	22DMB
280.8		2.499	7.500	3.709	.364	CP
284.4		12.598	36.788	16.947	1.665	23DMB
290.1		46.923	142.591	60.734	5.966	2MP
388.4		48.835	121.137	56.218	5.521	3MP
333.6		67.597	191.678	96.529	9.482	N-HEX
375.0		26.858	85.806	43.160	4.240	MCP/22DMP
333.4		5.515	16.878	8.619	.847	24DMP
416.4		.519	2.148	1.076	.106	BEN
427.8		1.876	5.217	2.549	.250	33DMP
433.8		38.881	38.691	48.266	3.955	C-HEX
454.5		31.735	118.160	55.996	5.500	2MH
461.1		7.406	23.877	11.462	1.126	11DMCP
471.9		32.537	95.511	46.001	4.519	3MH
483.6		14.902	43.838	20.600	2.824	C13DMCP
489.6		13.955	40.042	18.828	1.849	T13DMCP
495.3		16.185	55.150	25.554	2.510	T12DMCP3EP
525.0		44.636	125.868	59.697	5.864	N-HEP
567.3		65.833	283.433	97.128	9.541	MCH/C12DMC
594.6		6.953	19.804	9.475	.931	ECP
643.3		5.912	18.172	10.627	1.044	TOL

10150ppb

Trilab 2888 Analysis 4.8G
SAMPLE B665 MOBIL NOR 6487/5-1 88C356 (.30R)
Plotting factors 9928.704 -12.797
99.9

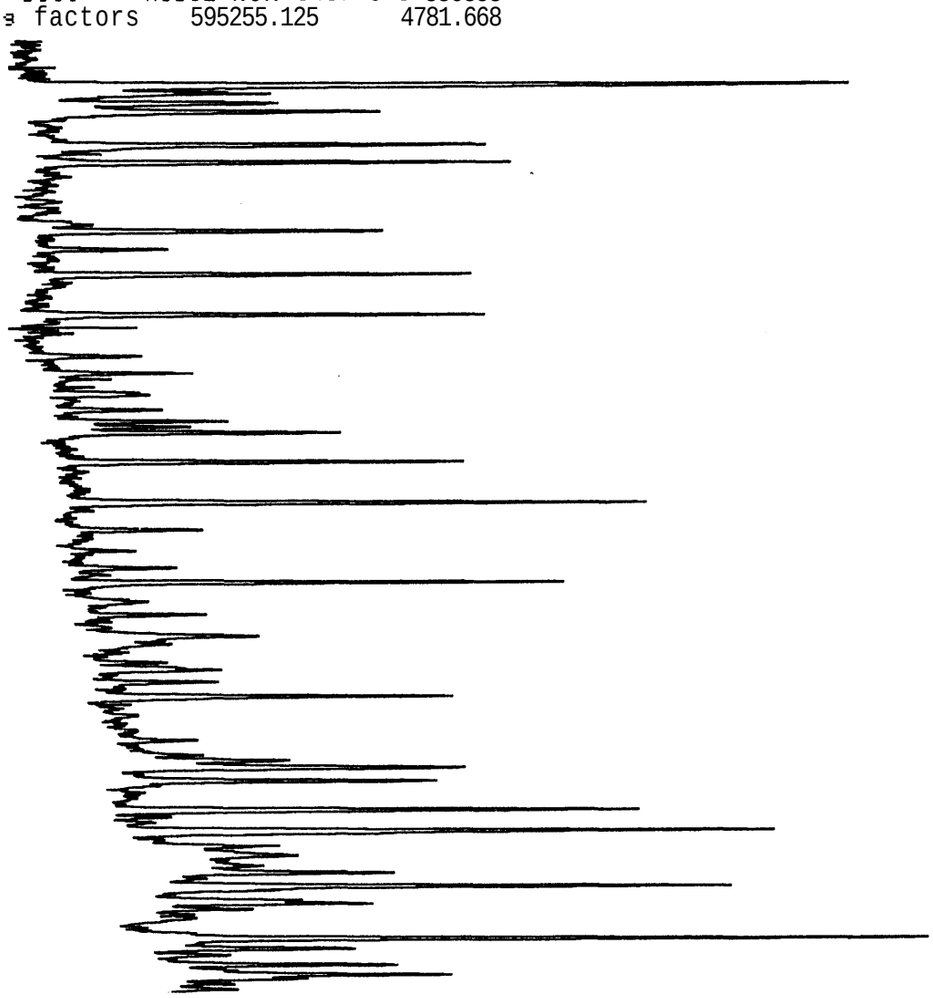
Trilab 2000 Analysis 4.86
SAMPLE 8666 MOBIL HOR 6407/5-1 88C358 (.30R) FIGURE 5.3
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
162.3		.386	1.680	.778	5.433	IC4
170.4		.553	2.110	1.827	7.240	NC4
203.1		.639	2.801	1.217	8.531	IC5
219.6		.767	2.111	1.070	7.596	NC5
257.7		.858	.254	.112	.789	22DMB
278. 1		.028	.098	.048	.341	CP
282.8		.075	.191	.088	.620	23DMB
287.7		.550	1. 734	.768	5.355	2MP
305.4		.197	.505	.234	1.651	3MP
329.7		.694	2.121	1.068	7.528	N-HEX
378.2		.707	2.813	1.012	7.136	MCP/22DMP
378.0		.055	.143	.873	.514	24DMP
410.1		.177	.658	.331	2.331	BEN
428.9		.019	.054	.026	.186	33DMP
427.8		.220	.552	.251	1.768	C-HEX
449.1		.153	.742	.352	2.478	2MH
455.7		.843	.099	.849	.345	11DMCP
464.4		.179	.552	.266	1.875	3MH
475.2		.285	.847	.398	2.886	C13DMCP
481.2		.225	.691	.325	2.289	T13DMCP
486.8		.438	1.499	.695	4.896	T12DMCP3EP
514.5		.639	1.825	.865	6.099	N-HEP
555.3		.943	3.121	1.490	10.502	MCH/C12DMC
582.0		.217	.598	.286	2.817	ECP
633.8		.796	2.323	1.358	9.574	TOL

				215ppb		

Trilab 2888 Analysis 4.8G
SAMPLE 8666 MOBIL NOR 6407/5-1 88C358 (.30R)
Plotting factors 595255.125 4781.668
99.9

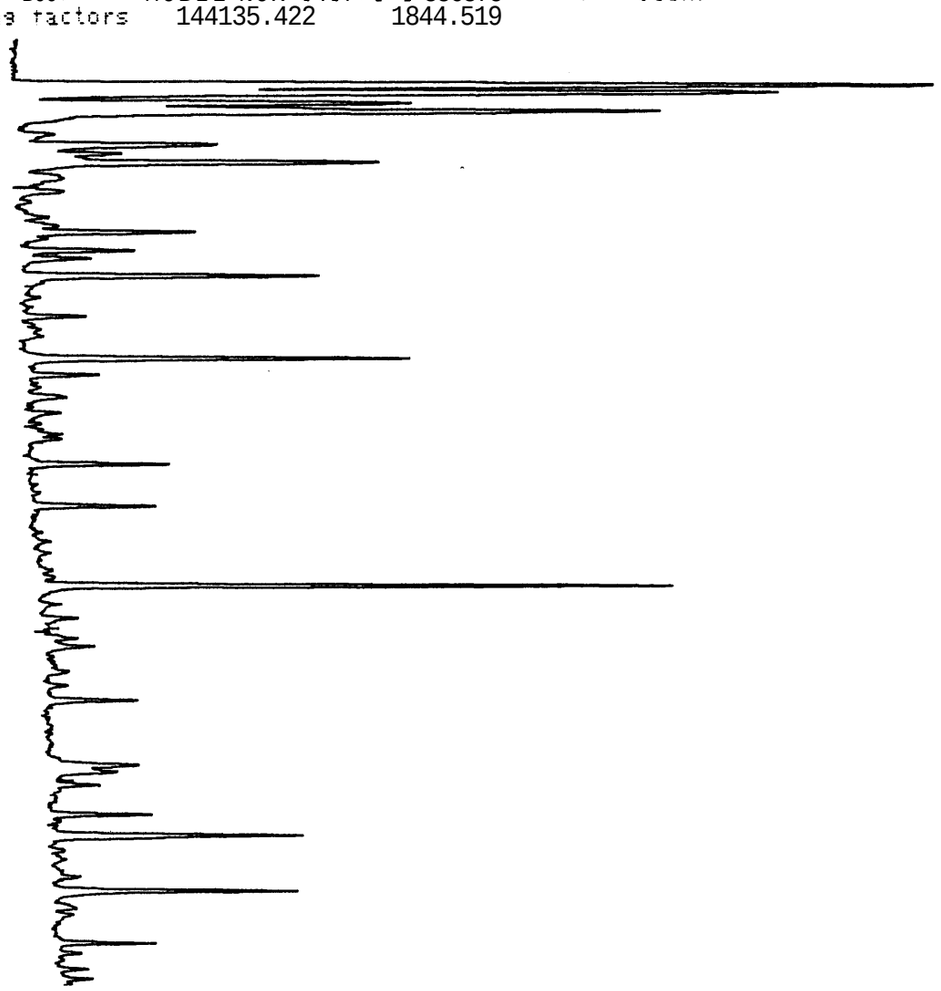


Trilab 2000 Analysis 4.8G
SAMPLE B667 MOBIL NOR 6407/5-1 38C375 (.30R) FIGURE 5.4
Method : GASOLINE

GASOLINE (Area)

RETH TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK HAMt
161.7		2.673	13.222	6.122	18.357	IC4
169.H		4,354	26.516	12.233	11.763	NC4
203.1		1.357	7.533	3.274	5.807	IC5
219.9		2.463	13.213	6.118	10.836	NC5
258.0		.189	.473	.208	.369	22DMB
274.5		.217	1.296	.641	1.137	CP
282.3		.265	1.550	.714	1.266	23DMB
288.3		1.184	4.815	2.851	6.637	2MP
306.3		.759	2.870	1.332	2.361	3MP
330.9		2.009	8.216	4.133	7.336	N-HEX
371.1		.437	1.580	.795	1.410	MCP/22DMP
338. l		.085	.355	.181	.322	24DMP
412.2		2.625	10.110	5.831	9.011	BEN
422. i		.086	.290	.141	.250	33DMP
429.8		.498	1.777	.807	1.431	C-HEX
451.2		.268	1.424	.675	1.196	2MH
459.0		.035	.119	.059	.105	11DMCP
465.9		.216	.846	.407	.728	3MH
477.0		.095	.335	.158	.280	C13DMCP
483.0		, 182	.383	.143	.253	T13DMCP
488.1		.244	.955	.443	.785	T12DMCP3EP
517.2		.985	2.352	1.352	2.399	N-HEP
558.3		.798	2.454	1.172	2.873	MCH/C12DMC
584.1		.105	.461	.221	.391	ECP
636.3		4.234	13.477	7.881	13.976	TOL
				1630ppb		

Trilab 2888 Analysis 4.8G
SAMPLE B667 MOBIL NOR 6407/5-1 38C375 (.30R)
Plotting factors 144135.422 1844.519
99.9

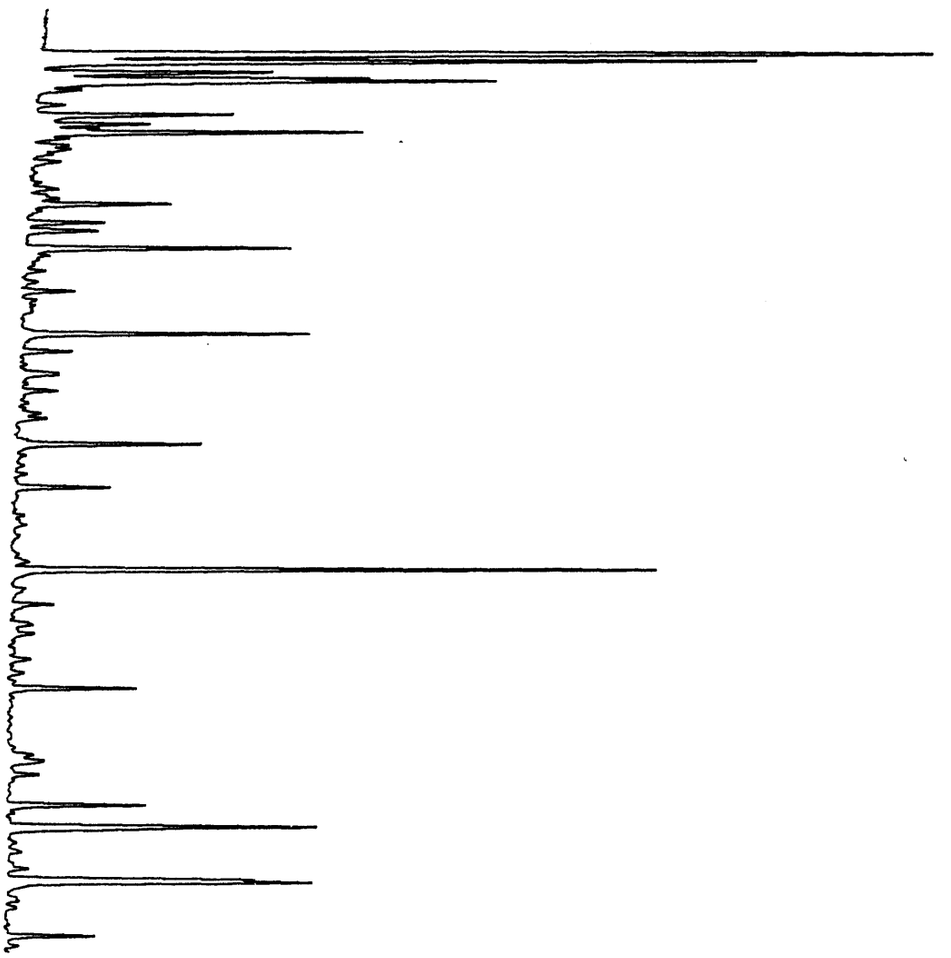


Trilab 2383 Analysis 4.8G
SAMPLE 3663 MOBIL NOR 6407/5-1 88C381 (.30R) FIGURE 5.5
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
161.1		3.769	12.243	5.669	6.778	IC4
169.8		7.419	24.629	11.409	13.640	NC4
203.1		3.148	10.386	4.514	5.397	IC5
220.8		5.296	19.156	8.858	18.591	NC5
260.1		.096	.312	.137	.164	22DMB
276.8		.449	1.614	.798	.954	CP
285.8		.465	1.606	.740	.885	23DMB
298.7		2.280	7.319	3.117	3.727	2MP
309.7		1.247	3.888	1.804	2.157	3MP
334.8		4.269	13.386	6.741	8.060	N-HEX
376.8		.351	2.540	1.278	1.528	MCP/22DMP
385.3		.219	.766	.391	.468	24DMP
419.4		4.651	14.759	7.418	8.869	BEN
426.9		.115	.316	.154	.185	33DMP
437.1		.795	2.577	1.170	1.399	C-HEX
458.1		.648	3.495	1.656	1.980	2MH
465.9		.072	.198	.098	.118	11DMCP
475.8		.A1f1	2.400	1.156	1.382	3MH
487.8		.159	.494	.232	.278	C13DMCP
493.8		.110	.244	.115	.137	T13DMCP
498.3		.346	1.267	.587	.702	T12DMCP3EP
528.9		2.985	18.811	4.748	5.677	N-HEP
570.9		1.579	5.451	2.682	3.111	MCH/C12DMC
599.1		.215	.694	.332	.397	ECP
652.2		10.396	38.632	17.913	21.417	TOL
				2580ppb		

Trilab 2888 Analysis 4.8G
SAMPLE B668 MOBIL NOR 6487/5-1 88C331 (.30R)
Plotting factors 60262.539 393.786
99.9



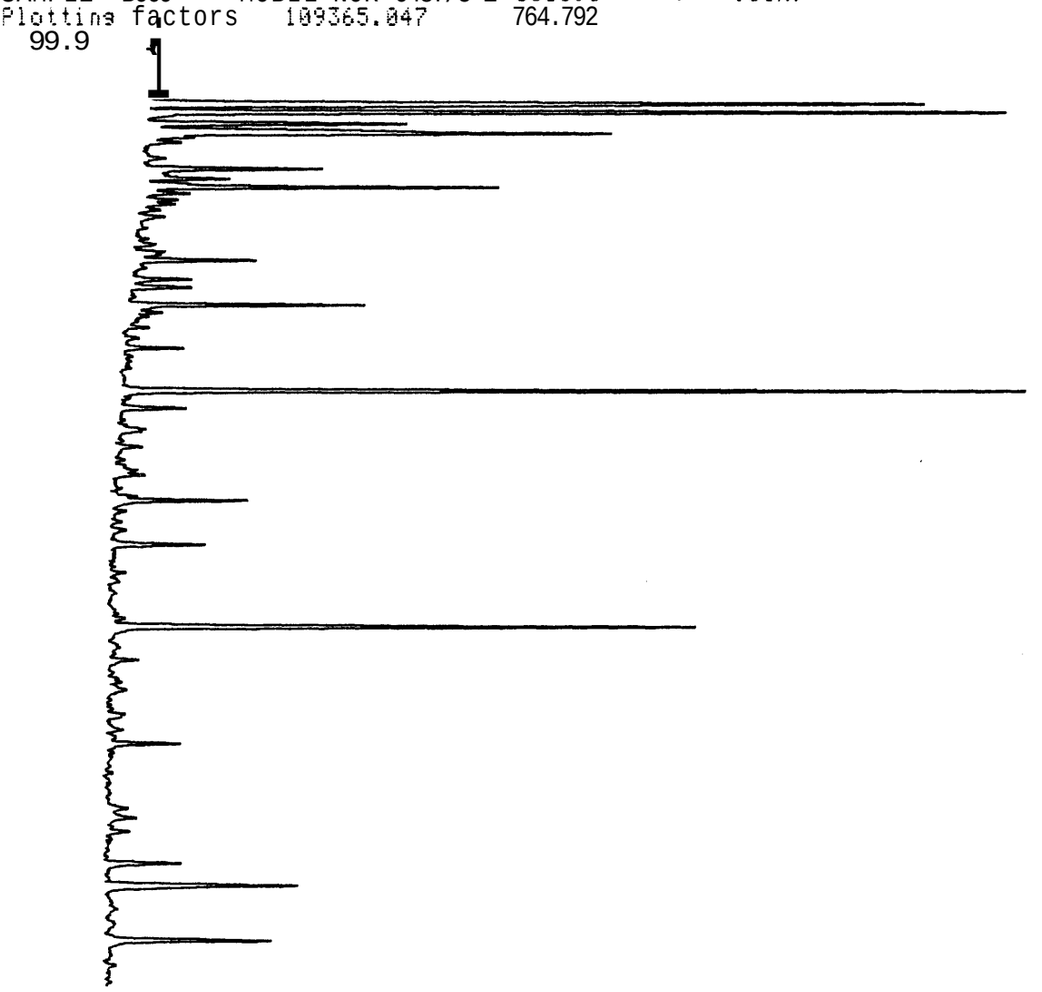
Trilab 2000 Analysis 4.8G
SAMPLE 8669 MOBIL NOR 6407/5-1 88C391 (.30R) FIGURE 5.6
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
182.7		2.317	7.887	3.244	6.762	IC4
192.3		4.168	16.631	7.784	16.056	NC4
227.1		1.564	4.491	1.952	4.068	IC5
245.4		3.152	8.935	4.155	8.668	NC5
275.1		.218	.786	.310	.647	22DMB
302.1		, 122	.345	.171	.356	CP
309.0		.256	.573	.264	.550	23DMB
317.4		1.080	3.034	1.292	2.693	2MP
336.7,		.497	1.316	.611	1.273	3MP
362.1		2.064	5.319	2.679	5.583	H-HEX
404.7		.516	1.249	.628	1.309	MCP/22DMP
413.1		.080	.197	. 188	. 209	24DMP
447.0		8.876	21.562	18.837	22.538	BEN
459.9		.824	.019	.009	.019	33DMP
465.0		. 578	1.664	.755	1.574	C-HEX
485.1		.204	.638	.302	.630	2MH
488.1		.167	. 334	. 166	.346	11DMCP
503.1		.170	.423	. 204	.425	3MH
521.1		.099	.216	. 182	.212	C13DMCP
526.8		.189	.887	.379	.791	T13DMCP
530.1		.259	.757	.351	.731	T12DMCP3EP
555.9		1.225	3.756	1.781	3.713	N-HEP
599.1		.830	2.521	1.203	2.588	MCH/C12DMC
629.7		.039	.419	.200	.417	ECP
688. 1		5.198	14.678	3.579	17.880	TOL

				880ppb		

Trilab 2888 Analysis 4.8G
SAMPLE B669 MOBIL NOR 6487/5-1 88C391 (.30R)
Plotting factors 109365.047 764.792

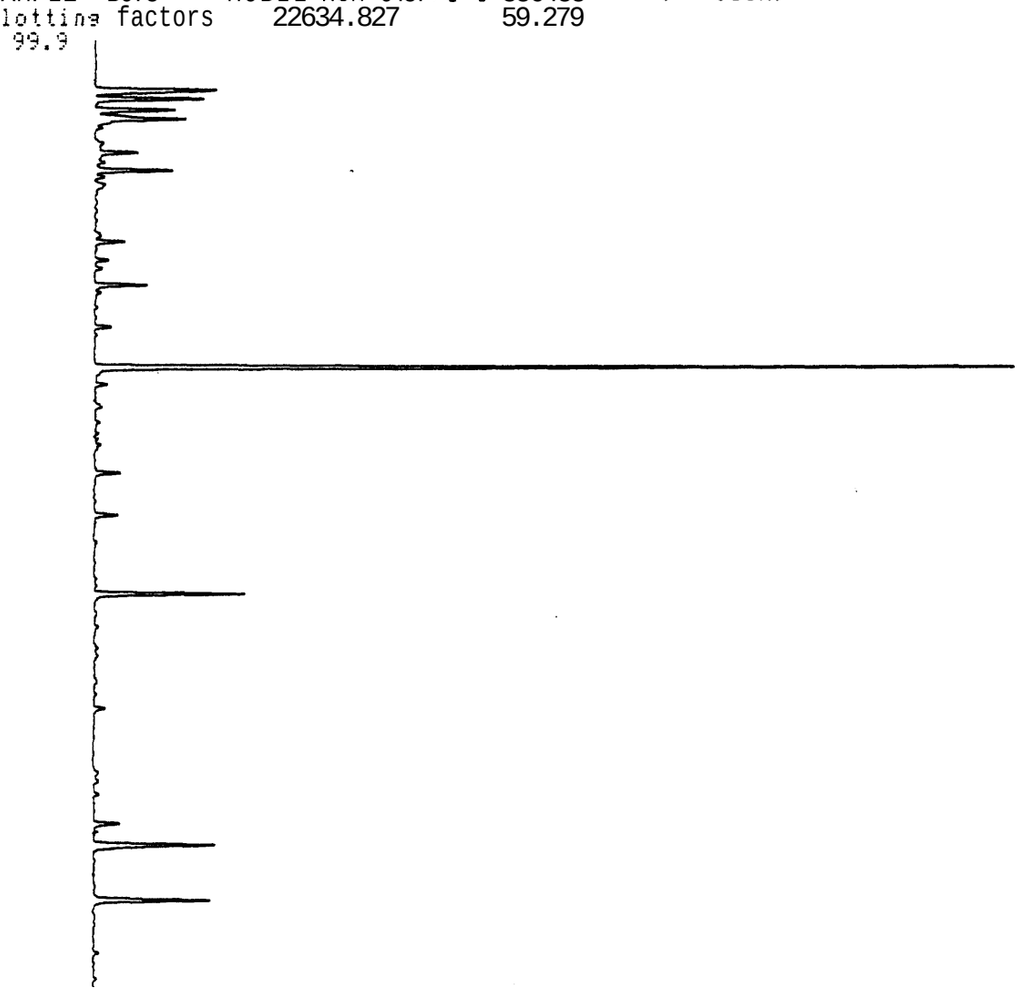


Trilab 2888 Analysis 4.8G
SAMPLE B670 MOBIL NOR 6407/5-1 380483 (.30R) FIGURE 5.7
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK Ht	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
168.0		3.469	10.570	4.894	4.953	IC4
177.0		3.903	16.803	7.783	7.877	NC4
210.6		1.818	6.880	2.998	3.826	IC5
225. 6		3,316	9.714	4,492	4.546	NC5
267.9		.113	.397	.175	.177	22DMB
284. 1		.049	.222	.110	.111	CP
291.9		.248	1.368	.678	.638	23DMB
298.2		1.298	3.737	1.592	1.611	2MP
316.5		.602	1.840	.854	.864	3MP
341.4		2.266	6.315	3.180	3.219	N-HEX
382.2		.749	2.128	1.070	1.083	MCP/22DMP
390.0		.135	.431	.220	.223	24DMP
423.8		39.673	106.476	53.516	54.161	BEN
434. 1		.898	.267	.130	.132	33DMP
439.8		.538	1.714	.778	.788	C-HEX
459.9		.255	1.444	.684	.693	2MH
471.8		.068	.253	.126	.127	11DMCP
476.7		.216	.753	.363	.367	3MH
488.1		.186	.491	.231	.234	C13DMCP
494. 1		.172	.519	.244	.247	T13DMCP
500.1		.278	.984	.456	.461	T12DMCP3EP
528.8		1.119	3.624	1.719	1.740	N-HEP
569.1		1.065	3.433	1.639	1.659	MCH/C12DMC
595.8		.178	.538	.281	.285	ECP
647.1		6.460	18.213	10.650	10.779	TOL
				805ppb		

Trilab 2886 Analysis 4.8G
SAMPLE B678 MOBIL NOR 6487/5-1 38C488 (.30R)
Plotting factors 22634.827 59.279

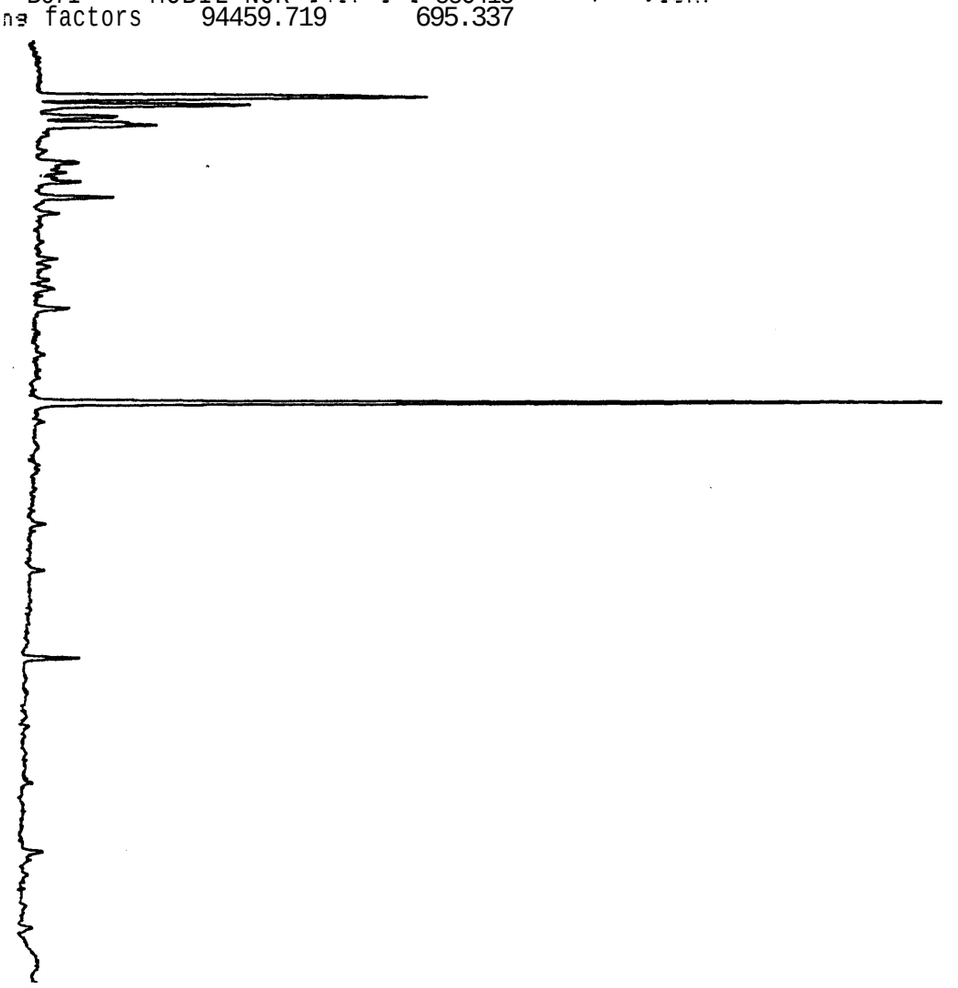


Trilab 2868 Analysis 4.8G
SAMPLE B671 M08IL NOR 6407/5-1 88C413 (.38R> FIGURE 5.8
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
173.7		.802	2.996	1.387	5.552	IC4
182.7		1.212	6.540	3.829	12.123	NC4
219.6		.438	1.884	.319	3.277	IC5
223.8		.254	1.679	.777	3.1##	NC5
252.9		.793	2.865	1.260	5.841	22DMB
388.1		.055	.225	.111	.445	CP
314.1		.229	.758	.349	1.398	23DMB
322.5		.150	.606	.258	1.034	2MP
335.1		.139	.479	.222	.889	3MP
362.4		.345	1.277	.641	2.566	N-HEX
408.9		.101	.356	.179	.716	MCP/22DMP
414.0		.027	.026	.013	.053	24DMP
456.0		9.370	27.275	13.789	54.859	BEN
469.2		.04M	.855	.027	.108	33DMP
476.1		.084	.339	.154	.617	C-HEX
501.9		.051	.139	.866	.263	2MH
510.8		.030	.845	.022	.089	11DMCP
523.2		.090	.257	.124	.496	3MH
531.9		.040	.074	.035	.139	C13DMCP
535.y		.041	.110	.052	.286	T13DMCP
541.2		.058	.102	.047	.189	T12DMCP3EP
576.0		.188	.653	.318	1.239	N-HEP
621.6		.178	.666	.318	1.272	MCH/C12DMC
652.8		.841	.142	.068	.271	ECP
788.6		.585	1.731	1.812	4.851	TOL
				650ppb		

Trilab 2888 Analysis 4.8G
SAMPLE B67I MOBIL NOR 6407/5-1 88C413 (.30R)
Plotting factors 94459.719 695.337
99.M



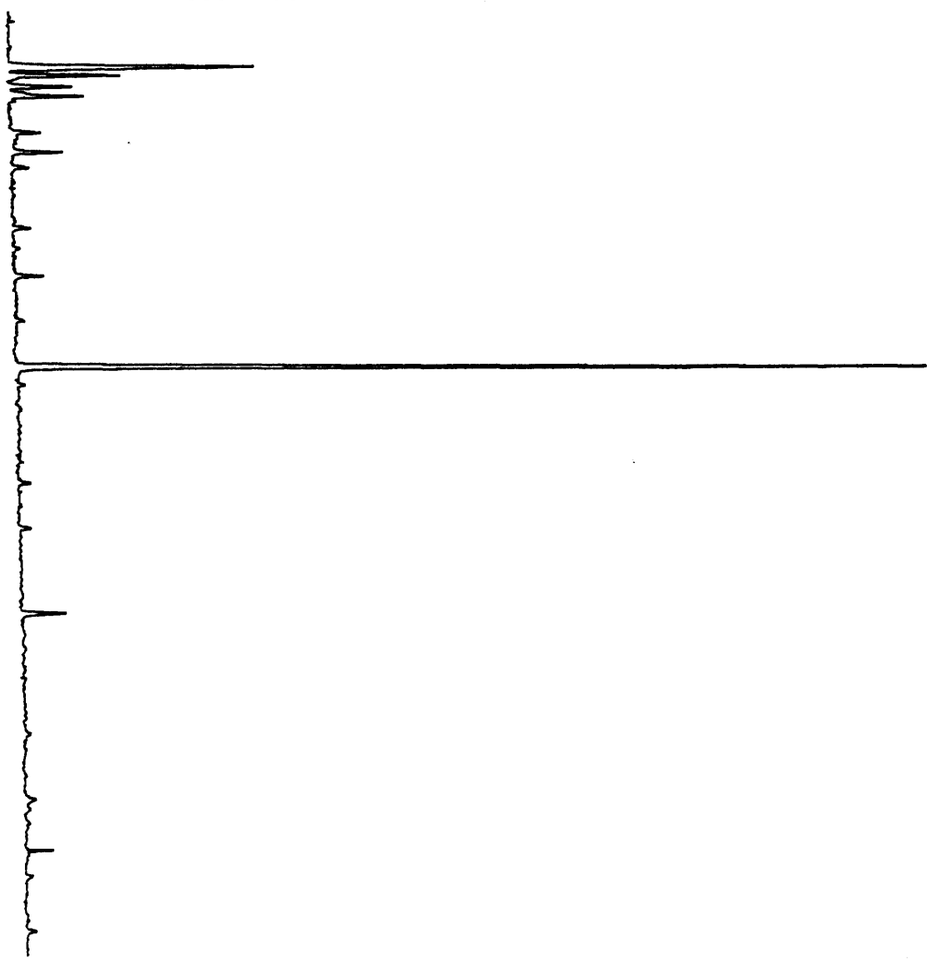
Trilab UD 2000 Analysis 4.8G
SAMPLE B672 MOBIL HOR 6407/5-1 88C416 (.30R) FIGURE 5.9
Method : GASOLINE

SASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME	
173.1		1.094	3.199	1.481	4.781	IC4	
182.7		1.274	4.244	1.966	6.345	NC4	
218.4		.501	1.452	.631	2.037	IC5	
237.3		.879	2.536	1.173	3.735	NC5	
280.2		.062	.194	.085	.275	22DMB	
303.0		,040	.124	.061	.198	CP	
306.0		.080	.269	.124	.401	23DMB	
312.0		.305	.962	.410	1.322	2MP	
331.8		.129	.517	.240	.775	3MP	
359.1		.527	1.716	.364	2.798	N-HEX	
404.1		.163	.469	,236	.761	MCP/22DMP	*
408.8		.037	.092	.047	.152	24DMP	
448.5		15.636	41.561	28.889	67.425	BEN	
467.1		.149	.442	.216	.697	33DMP	
474.0		.057	.256	.116	.375	C-HEX	
492.8		.087	.235	.111	.359	2MH	
495.8		.031	.056	.028	.090	11DMCP	
587.9		.079	.228	.110	.354	3MH	
519.9		.030	.170	.080	.258	C13DMCP	
525.9		.022	.102	,048	.155	T13DMCP	
533.1		.058	.231	.107	.346	T12DMCP3EP	
564.0		.234	.693	.329	1.062	N-HEP	
608.1		.207	.665	.317	U825	MCH/C12DMC	
642.9		.036	.186	.051	.164	ECP	
692.1		.748	2.155	1.260	4.068	TOL	

				465ppb			

Trilab 2888 Analysis 4.8G
SAMPLE B672 MOBIL NOR 6487/5-1 38C416 (.30R)
Plotting factors 56814.914 320.826
99.9



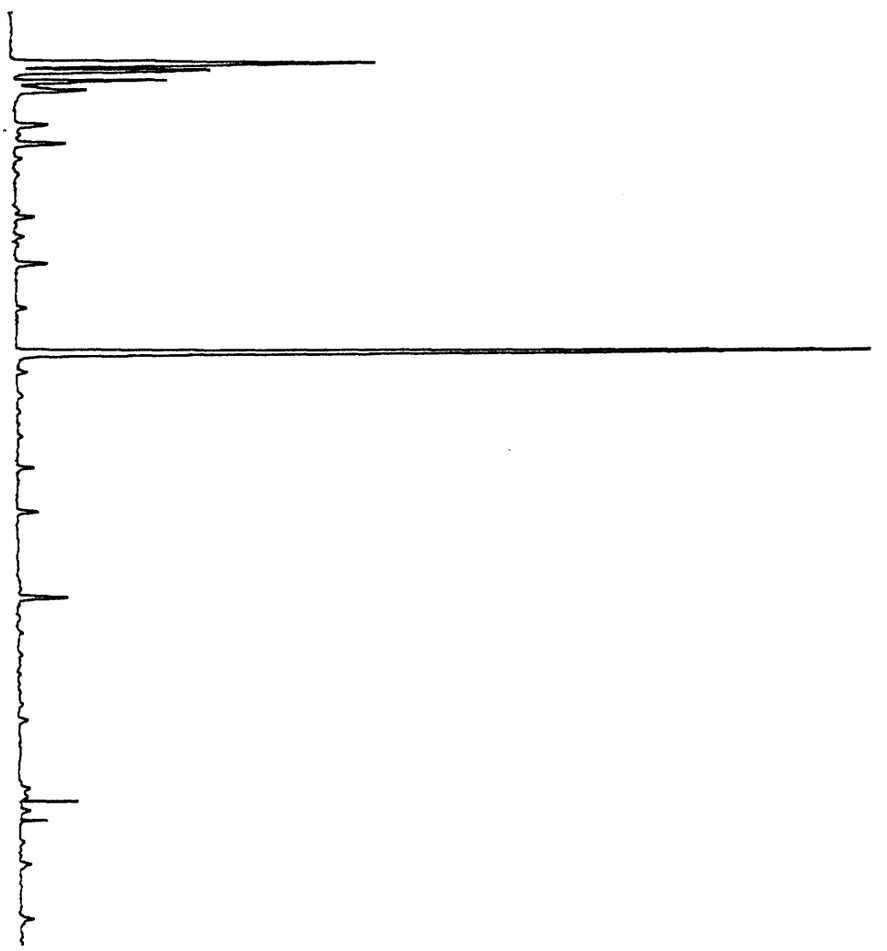
Trilab 2888 Analysis 4.86
SAMPLE B673 MOBIL HOR 6407/5-1 83C421 (.30R) FIGURE 5.10
Method : GASOLINE

QASOLlHE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME	
168.3		3.771	9.070	4.200	8.024	IC4	
177.6		1.794	9.064	4.199	8.823	NC4	
212.1		.805	3.890	1.691	3.231	IC5	
230.7		1.268	4.614	2.134	4.07?	NC5	
260.I		.117	.683	.300	,573	22DMB	
294.0		.082	.135	.867	.127	CP	
297.0		.144	.545	.251	.480	23DMB	
383.3		.485	1.787	.761	1.455	2MP	
322.2		.255	.897	.416	.796	3MP	*
348.6		.791	2.748	1.380	2.636	N-HEX	
392.1		.292	.998	.502	.959	MCP/22DMP	
401.1		.884	.185	.094	.180	240MP	
436.2		28.888	62.773	31.551	60.283	BEN	
450.0		.044	.079	.038	.073	33DMP	
454.S		.231	.658	.299	.571	C-HEX	
479. l		.155	.698	.331	.632	2MH	
483.0		.014	.841	.020	.839	11DMCP	
495.0		.886	.370	.178	.340	3MH	
507.0		.066	.198	.093	.178	C13DMCP	
512.4		.028	.112	.053	.101	T13DMCP	
519.0		.144	.460	.213	.407	T12DMCP3EP	
549.9		.425	1.351	.641	1.224	N-HEP	
594.0		.528	1.681	.883	1.534	MCH/C12DMC	
621.9		.053	.196	.094	.179	ECP	
678.3		1.175	3.471	2.030	3.878	TOL	

490ppb

Trilab 2888 Analysis 4.86
SAMPLE B673 MOBIL NOR 6497/5-1 88C421 (.30R)
Plotting factors 39877.598 133.812
99.9

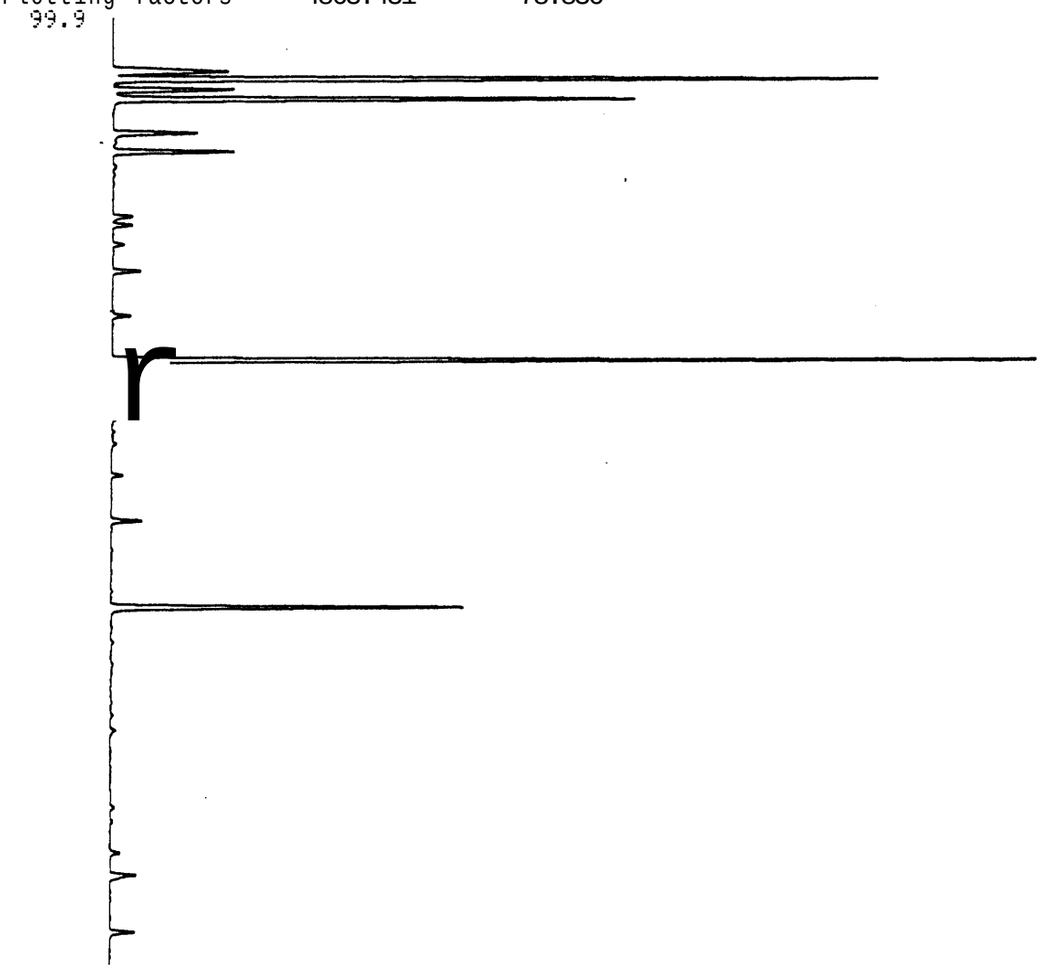


Trilab 2000 Analysis 4.86
SAMPLE B674 MOBIL NOR 6487/5-1 83C427 < .30R) FIGURE 5.11
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK ARtA	PEAK CONC	%CONC	PEAK NAME
169.8		28.985	97.429	45.109	5.591	IC4
178.8		125.137	422.559	195.735	24.259	NC4
212.7		20.035	67.749	29.447	3.650	IC5
222.8		.714	2.726	1.261	.156	HC5
262.2		.335	1.877	.825	.102	22DMB
287.1		.124	.398	.197	.024	CP
294.3		4.803	16.f37	7.709	.955	23DMB
302.7		4.724	14.649	6.239	.773	2MP
322.2		2.345	9.226	4.281	.531	3MP
348.3		6.716	21.338	18.742	1.331	N-HEX
391.8		4.507	13.983	7.834	.872	MCP/22DMP
401.1		.329	1.747	.892	.111	24DMP
435.6		221.068	624.357	313.809	38.392	BEN
447.9		.216	1.115	.545	.067	33DMP
453.9		12.379	36.ov	16.788	2.071	C-HEX
475.8		.825	4.457	2.112	.262	2MH
483.8		.506	1.617	.803	.188	11DMCP
494. 1		1.038	3.293	1.586	.197	3MH
506.7		.582	1.630	.766	.095	C13DMCP
512.7		.5 68	1.707	.802	.099	T13DMCP
518.7		1.173	4.298	1.992	.247	T12DMCP3EP
549.3		2.595	7.219	3.424	.424	N-HEP
593.7		7.358	22.258	18.627	1.317	MCH/C12DMC
622.5		.336	.949	.454	.056	ECP
678.3		84.471	245.856	143.768	17.813	TOL
				11620ppb		

Trilab 2888 Analysis 4.8G
SAMPLE B674 MOBIL MOR 6487/5-1 38C427 (.38R)
Plotting factors 4863.431 -78.836

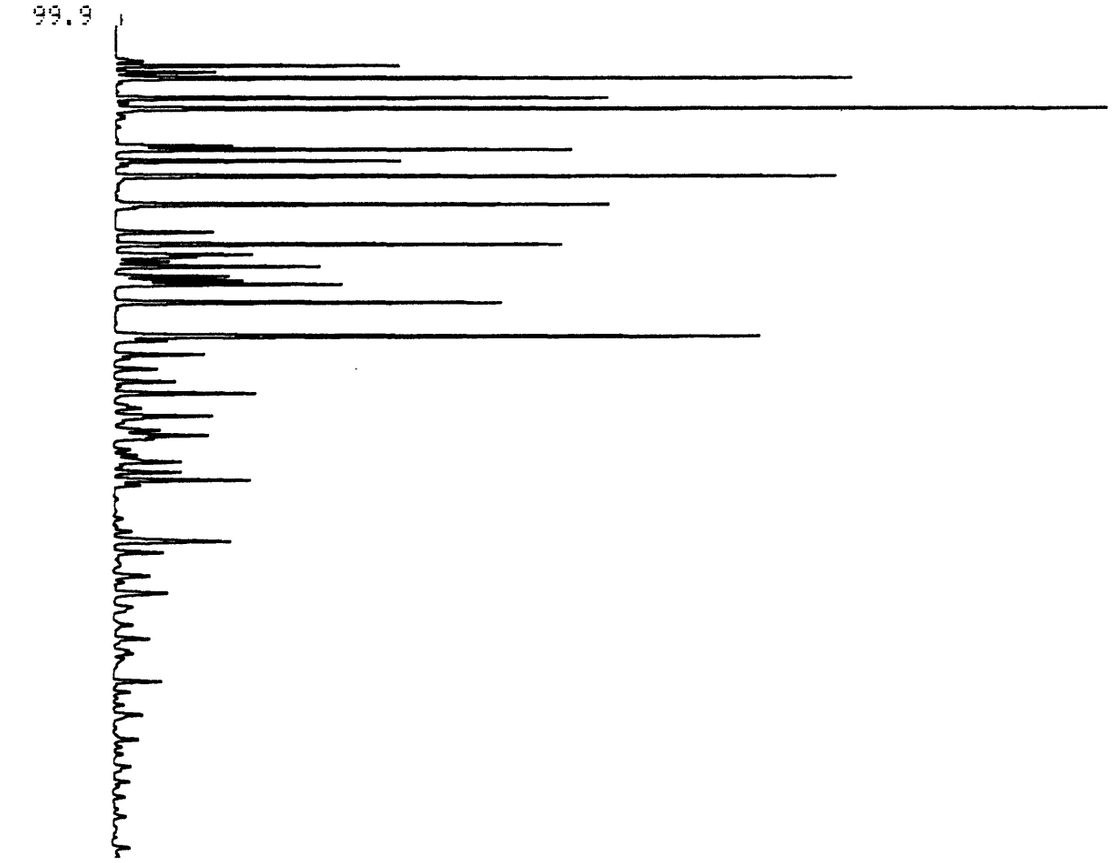


Trilab 2000 Analysis 4.8G
SAMPLE B675 MOBIL NOR 6487/5-1 88C430 (.30R) FIGURE 5.12
Method : GASOLINE

8ASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
163.5		28.494	52.889	24.488	1.162	IC4
169.8		212.863	486.854	183.468	3.946	NC4
191.4		142.128	274.365	119.252	5.661	IC5
202.8		287.169	563.936	260.776	12.379	NC5
223.5		1.189	2.515	1.106	.052	22DMB
242.7		1.534	2.068	1.823	.049	CP
244.8		33.735	76.429	35.287	1.671	23DMB
243.7		131.662	275.138	117.187	5.563	2MP
261.3		82.818	178.725	79.219	3.768	3MP
277.8		208.693	436.386	219.764	18.432	N-HEX
388.7		142.566	310.385	156.124	7.411	MCP/22DMP
312.6		6.607	13.794	7.044	.334	24DMP
339.0		28.236	65.791	33.067	1.570	BEN
346.2		1.884	3.590	1.754	.833	33DMP
352.2		129.064	293.936	133.447	6.335	C-HEX
363.9		39.217	93.883	44.112	2.094	2MH
371.7		15.166	36.821	18.289	.868	11DMCP
377.1		58.878	138.458	66.682	3.165	3MH
387.9		32.630	75.129	35.311	1.676	C13DMCP
392.7		36.755	87.233	40.999	1.946	T13DMCP
396.9		65.479	161.513	74.837	3.552	T12DMCP3EP
416.4		111.648	264.098	125.257	5.946	N-HEP
453.3		186.321	482.188	238.181	18.926	MCH/C12DMC
474.3		25.345	66.686	31.905	1.514	ECP
517.2		40.539	184.563	61.145	2.982	TOL
				29675ppb		-

Trilab 2000 Analysis 4.8G
SAMPLE B675 MOBIL NOR 6487/5-1 88C430 (.30R)
Plotting factors 3131.463 -33.939

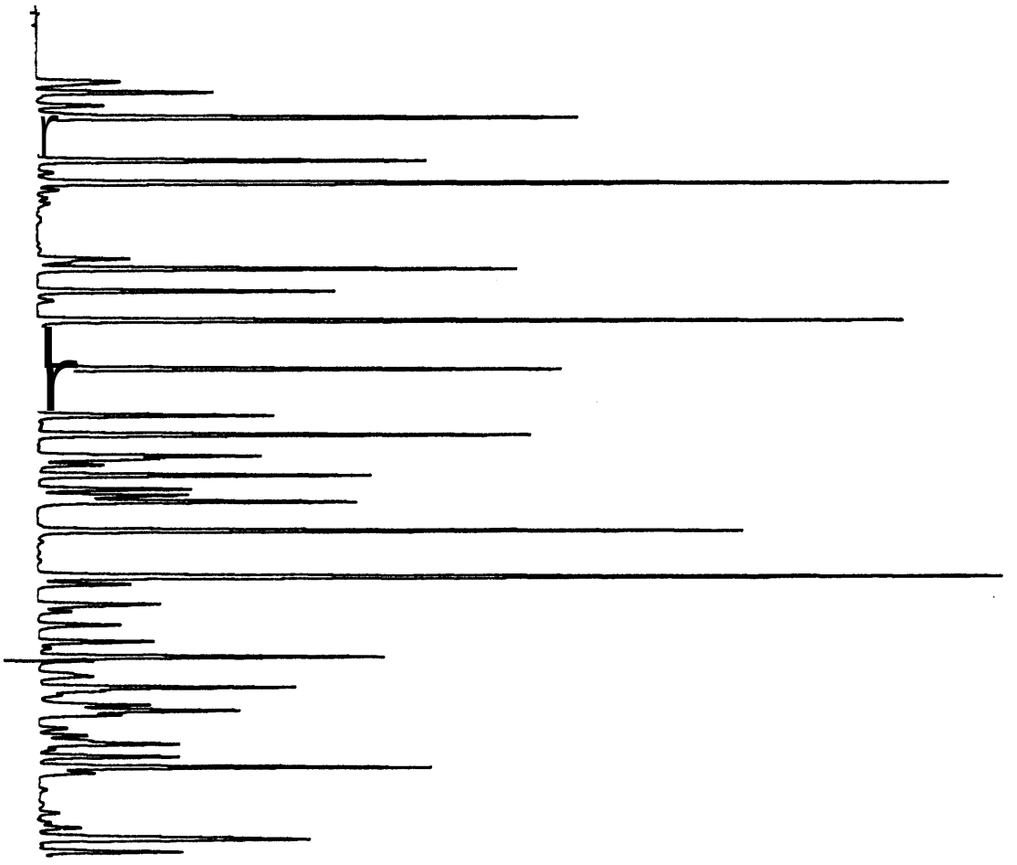


Trilab 2000 Analysis 4.86
SAMPLE 8682 MOBIL NOK 6407/5-1 88C431 (.30R) FIGURE 5.13
Method . GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
288.8		4.549	16.228	7.514	.839	IC4
221.7		37.857	135.148	62.603	6.988	NC4
268.5		26.578	86.752	37.706	4.209	IC5
293.1		62.398	199.055	92.847	10.275	NC5
333.9		.238	1.675	.737	.082	22DMB
376.5		6.301	20.154	9.966	1.113	CP
379.8		2.362	6.361	2.930	.327	23DMB
387.0		32.914	183.577	44.117	4.925	2MP
411.3		20.295	62.612	29.853	3.243	3MP
444.0		59.392	181.118	91.211	10.182	N-HEX
496.8		35.974	112.900	56.789	6.339	MCP/22DMP
586.4		1.858	5.760	2.942	.329	24DMP
548.4		16.244	53.238	26.758	2.987	BEN
561.9		.448	1.521	.743	.083	33DMP
569.7		33.951	108.901	49.441	5.519	C-HEX
592.8		15.462	73.293	34.736	3.878	?MH
602.4		4.713	15.926	7.918	.883	11DMCP
613.5		23.036	72.679	35.005	3.903	3MH
628.5		10.538	32.792	15.412	1.721	C13DMCP
634.2		10.361	37.002	17.391	1.941	T13DMCP
642.6		21.928	72.778	33.718	3.764	T12DMCP3EP
673.8		48.354	148.559	70.459	7.365	N-HEP
724.2		66.121	228.427	185.242	11.748	MCH/C12DMC
753.9		8.403	32.248	15.429	1.722	ECP
812.1		23.875	78.561	45.940	5.128	TOL
				93115ppb		

Trilab 2000 Analysis 4.86
SAMPLE 8682 MOBIL HOR 6407/5-1 88C431 (.30R)
Plotting factors 13168.553 -26.748
99.9

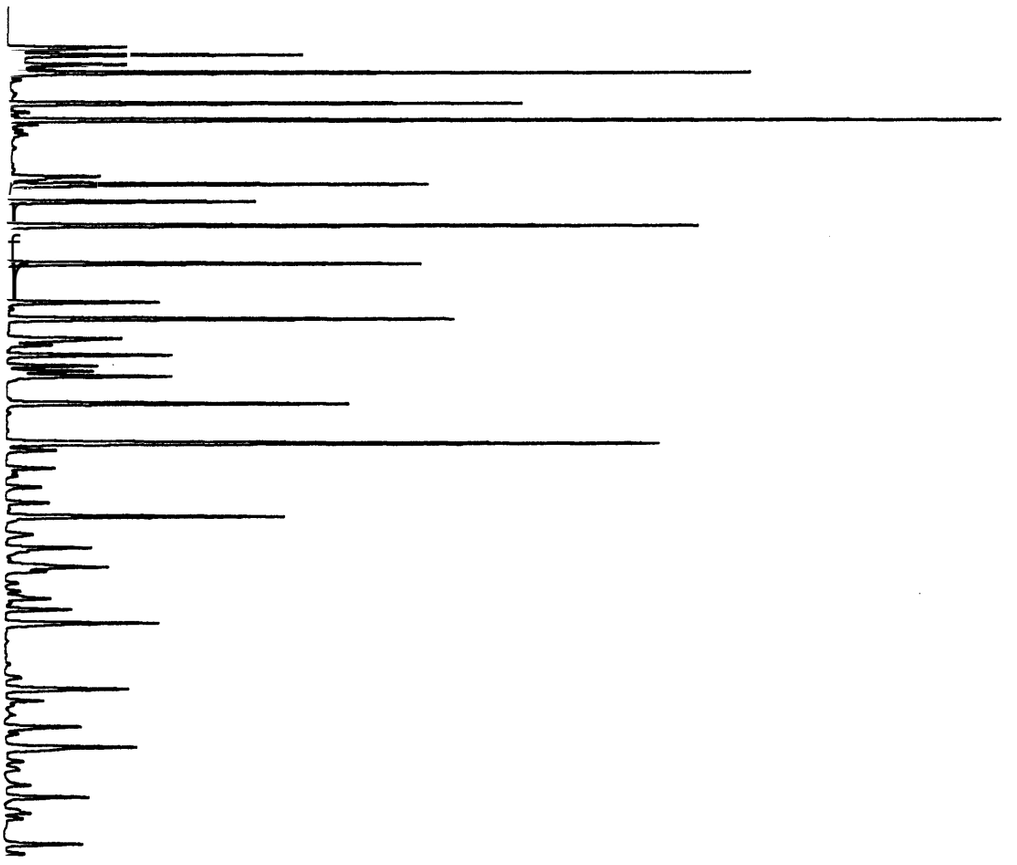


Trilab 2898 Analysis 4.8G
SAMPLE 8677 MOBIL HOR 6497/5-1 88C433 (.30R) FIGURE 5.14
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
162.9		94.179	197.591	91.443	1.461	IC4
171.9		580.594	1203.679	557.569	8.907	NC4
295.5		491.129	855.931	372.926	5.943	IC5
223.2		777.975	1663.603	769.286	12.289	NC5
254.7		3.536	13.237	5.819	.093	22DMB
285.9		72.957	178.873	38.452	1.413	CP
288.9		27.598	57.703	26.581	.425	23DMB
294.9		306.811	787.496	335.421	5.353	2MP
313.5		193.216	464.710	215.634	3.445	3MP
339.3		540.530	1247.239	628.136	10.034	H-HEX
381.9		323.896	813.481	409.181	6.537	MCP/22DMP
390.3		14.251	38.029	19.421	.319	24DMP
424.8		119.028	307.765	154.686	2.471	BEN
432.3		5.584	16.126	7.873	.126	33DMP
442.8		349.633	993.788	419.319	6.555	C-HEX
464. 1		89.337	353.244	167.493	2. 674	2MH
471.9		33.023	195.533	52.417	.837	11DMCP
481.8		128.953	337.904	162.746	2.600	3MH
493.8		71.244	187.624	90.102	1.409	C13DMCP
499.8		67.683	177.700	33.519	1.334	T13DMCP
505.5		128.461	493.281	186.859	2.985	T12DMCP3EP
535.5		267.364	696.760	339.461	5.279	N-HEP
578.4		511.092	1448.079	691.381	11.045	MCH/C12DMC
606.9		38.040	109.676	52.472	.838	ECP
659.7		217.587	693.952	352.644	5.633	TOL
				190335ppb		

Trilab 2999 Anaiysis 4.86
SAMPLE B677 MOBIL NOR 6497/5-1 83C433 (.30R)
Plotting factors 1156.573 — 99 . 122
99.9

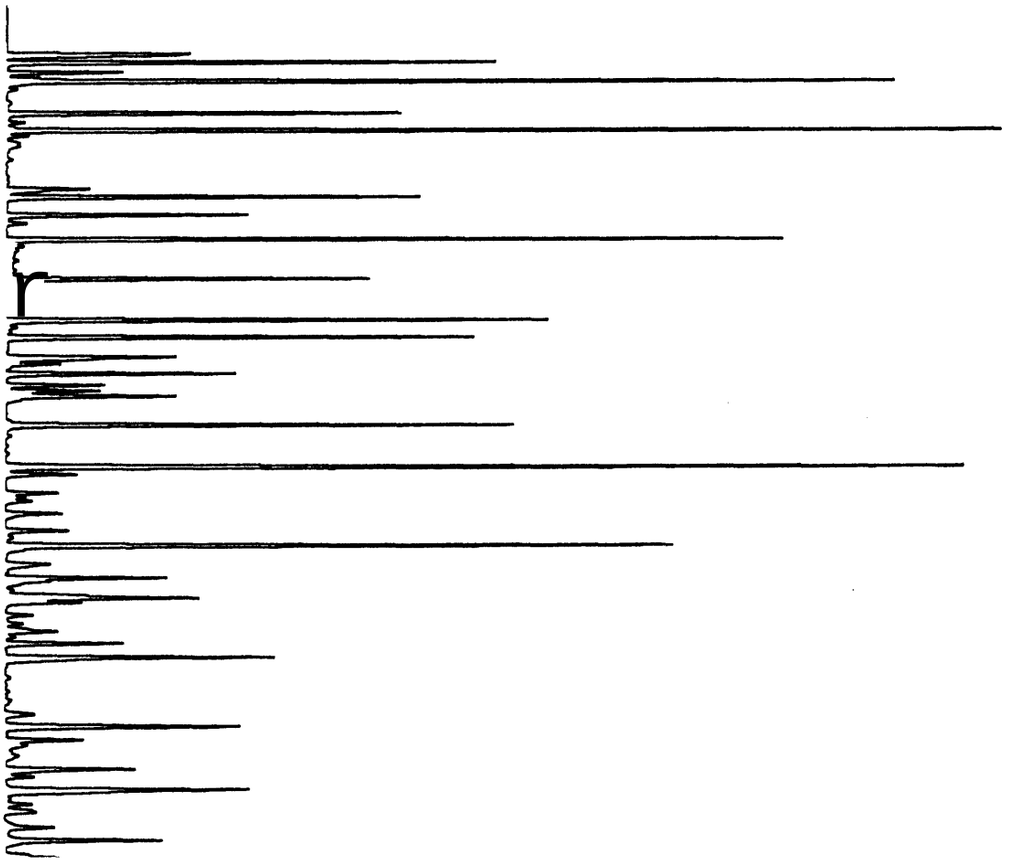


Trilab 2888 Analysis 4.8G
SAMPLE B678 MOBIL NOR 6487/5-1 88C436 (.30R) FIGURE 5.15
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
173.4		22.121	62.689	28.988	1.335	IC4
182.7		170.543	486.119	225.177	10.368	NC4
217.8		75,,916	207.424	90.156	4.151	IC5
236.4		191,,588	509.507	235.687	10.848	NC5
269.1		1.141	3.816	1.678	.077	22DMS
301.2		15,.958	45.845	22.275	1.026	CP
303.9		6.758	13.049	6.011	.277	23DMB
309.9		79,492	287.273	88.284	4.065	2MP
329.4		46,, 462	121.437	56.349	2.594	3MP
356.1		149.465	388.872	195,.836	9.817	N-HEX
400.2		69,, 789	190.872	96,.009	4.421	MCP/22DMP
408.9		5,448	14.662	7,.438	.345	24DMP
444.9		183,, 978	281.797	141.634	6.521	BEN
452.7		1 964	6.420	7.137	.144	33DMP
463.5		89.837	248,.386	112,.994	5.283	C-HEX
485.1		32.474	128,.862	61.068	2.312	2MH
492.9		18.398.	38,.911	15.353	.707	11DMCP
503.7		44.009	122.452	58.977	2.715	3MH
516.6		18.878	52.755	24.795	1.142	C13DMCP
522.9		18.821	51.263	24.894	1.189	T13DMCP
528.9		32.526	112.533	52.144	2.401	T12DMCP3EP
559.8		97.619	265.982	126.113	5.887	N-HEP
605.1		184.183	544.245	259.848	11.964	MCH/C12DMC
634.2		18,896	31.384	15.815	.691	ECP
691.2		128.196	381.108	222.859	18.261	TOL
				32600ppb		

Trilab 2888 Analysis 4.8G
SAMPLE B678 MOBIL NOR 6487/5-1 88C436 (.38R)
Plotting factors 4698.362 -78.853

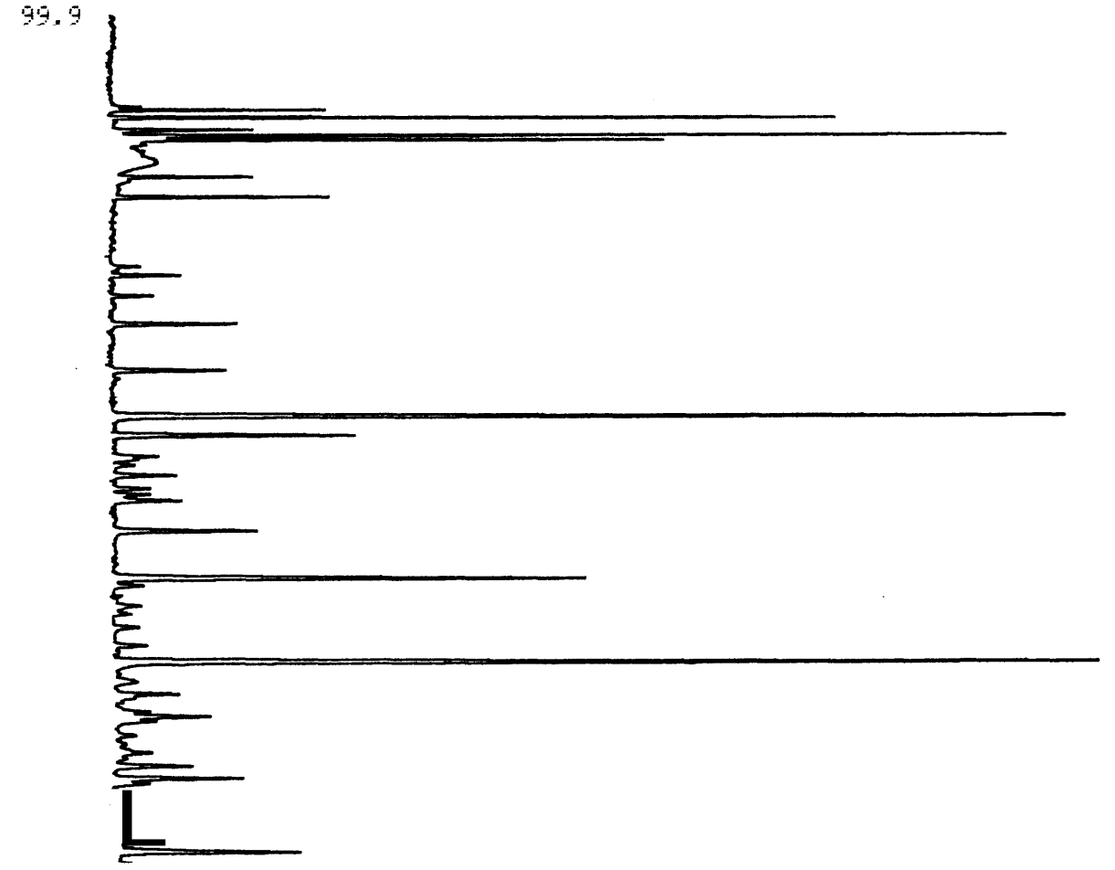


Trilab 2000 Analysis 4.86
SAMPLE 6679 MOBIL NOR 6407/5-1 88C442 (.30R) FIGURE 5.16
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
225.8		1.390	2.661	1.232	1.927	IC4
236.4		5.527	9.M1H	4.174	6.527	NC4
270.0		1.371	2.935	1.276	1.995	IC5
299.7		2.185	3.962	1.A32	2.365	NC5
336.8		.854	.374	.164	.257	22DMB
375.9		.319	.893	.441	.690	CP
379.2		.099	.244	.112	.176	23DMB
385.5		.718	1.704	.726	1.135	2MP
408.0		.441	1.102	.511	.800	3MP
438.3		1.296	3.211	1.617	2.529	N-HEX
489.0		1.192	3.410	1.715	2.683	MCP/22DMP
498.0		.103	.473	.241	.377	24DMP
539.4		9.735	27.650	13.897	21.735	BEN
553.8		.835	.889	.843	.868	33DMP
560.4		2.433	6.675	3.030	4.739	C-HEX
583.2		.463	1.990	.943	1.475	2MH
592.8		.225	.762	.379	.592	11DMCP
683.9		.628	1.838	.885	1.385	3MH
618.9		.372	1.189	.559	.874	C13DMCP
625.5		.374	1.180	.555	.367	T13DMCP
632.1		.683	2.355	1.891	1.707	T12DMCP3EP
665.4		1.462	4.440	2.186	3.294	N-HEP
716.1		4.797	15.449	7.376	11.536	MCH/C12DMC
741.8		.051	.254	.121	.190	ECP
887.9		18.867	32.338	18.910	29.575	TOL
				1330ppb		

Trilab 2000 Analysis 4.86
SAMPLE B679 MOBIL NOR 6407/5-1 88C442 (.38R)
Plotting factors 88277.859 689.112

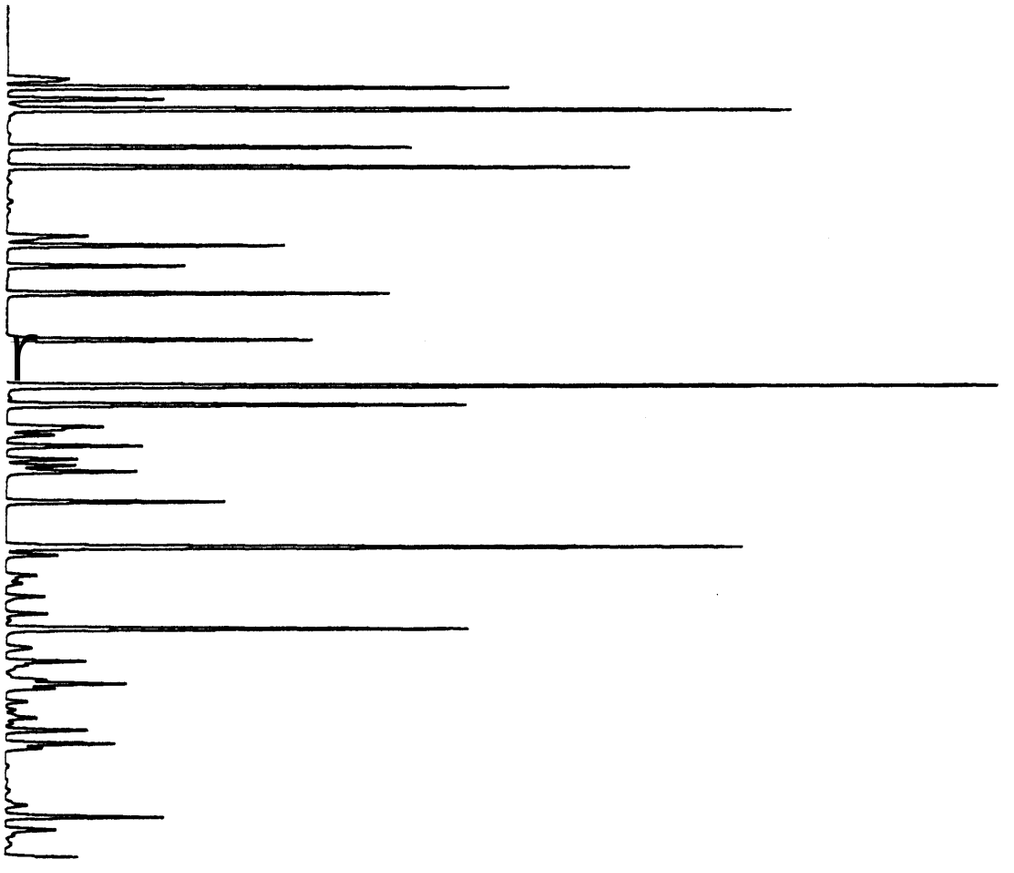


Trilab 2000 Analysis 4.8G
SAMPLE B688 MOBIL MOR 6407/5-1 88C448 (.30R) FIGURE 5.17
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
202.5		30.544	97.294	45.047	2.311	IC4
213.6		154.337	493.048	228.387	11.719	NC4
254.4		79.426	248.904	108.185	5.551	IC5
276.3		122.388	369.227	170.739	8.761	NC5
314.4		1.078	3.107	1.366	.070	22DMB
352.2		16.119	50,.469	24.957	1.281	CP
354.9		5.994	15..084	6.943	.357	23DMB
362. 1		54,5[illegible]	163,024	69.437	3.563	2MP
385.2		34.841	102..575	47.596	2.442	3MP
415.8		75,.124	211,..629	106.577	5.469	N-HEX
466.2		60.264	188,..221	90.651	4.651	MCP/22DMP
476. 1		J.845	11..430	5.837	.300	24DMP
516.6		195.438	575,,247	289.126	14.835	BEN
530.4		.869	3,.669	1.793	.092	33DMP
537.6		90.305	274,..549	124.645	6.396	C-HEX
561.6		19.127	89,.607	42.465	2.179	2MH
570.3		9..764	32..391	16.088	.826	11DMCP
582.3		26.545	78,.360	37.741	1.937	3MH
596.7		14.017	41,. 948	19.712	1.811	C13DMCP
603.3		13.576	41,.004	19.272	.989	T13DMCP
610.2		25.547	87,,.698	40.635	2.085	T12DMCP3EP
643.5		42.741	123..151	58.408	2.997	N-HEP
693.0		144.942	457,,660	218.508	11.212	MCH/C12DMC
723.6		6.894	20.347	9.734	.499	ECP
783.0		98.884	282.,244	165.046	8.469	TOL
				30770ppb		

Trilab 2888 Analysis 4.8G
SAMPLE B680 MOBIL HOR 6407/5-1 88C448 (.30R)
Plotting factors 4596.578 -74.154
99.9

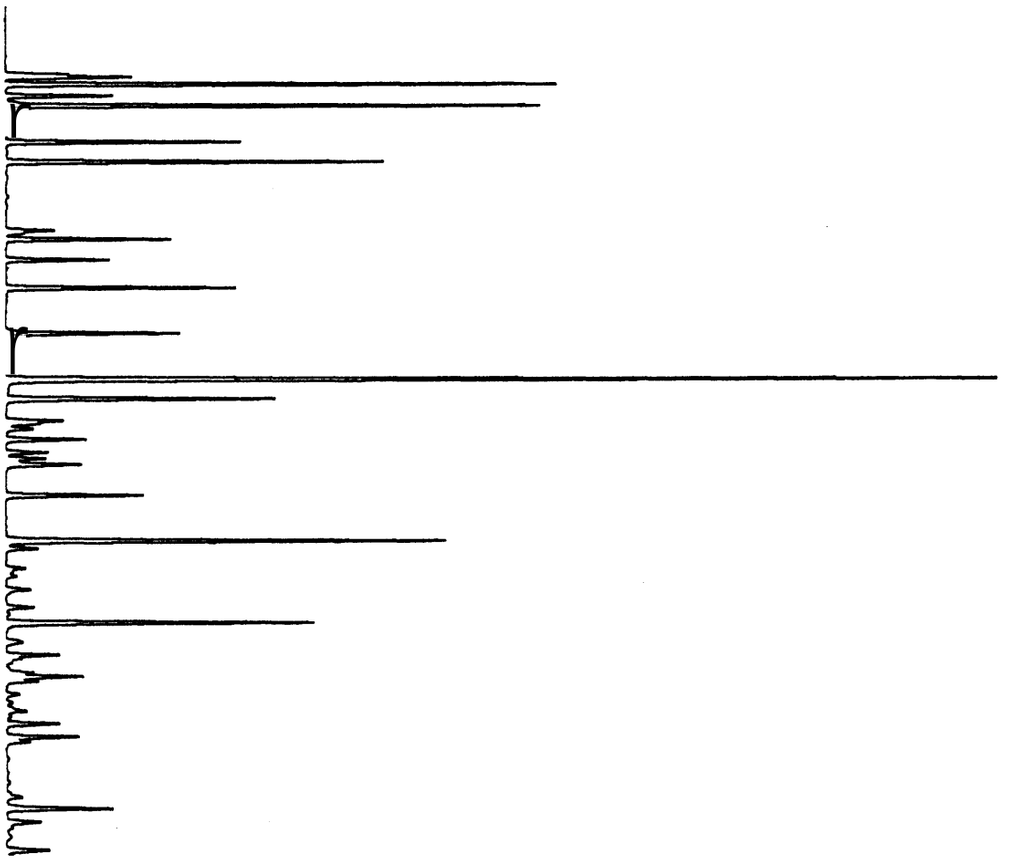


Trilab 2000 Analysis 4.06
SAMPLE 8631 MOBIL NOR 6407/5-1 8SC452 (.30R) FIGURE 5.18
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
197.1		8.362	24.853	11.507	2.292	IC4
288.2		41.947	119.268	55.247	11.005	NC4
248.7		18.194	49.497	21.513	4.286	IC5
278.3		29.351	78,885	36.441	7.259	NC5
308.1		.278	1.029	.452	.090	22DMB
345.3		3.888	10.957	5.418	1.079	CP
348.9		1.300	3.331	1.535	.306	23DMB
355.2		12.827	35.177	14.983	2.984	2MP
377.7		7.976	22.195	10.299	2.851	3MP
488.3		17.924	48.688	24.519	4.884	N-HEX
458.7		13.660	41.548	20.898	4.163	MCP/22DMP
468.A		1.028	3.899	1.991	.397	24DMP
509.1		77.520	227.382	114.285	22.765	BEN
522.9		.230	.885	.393	.878	33DMP
530.4		20.962	64.003	29.857	5.788	C-HEX
553.8		4.384	20.192	9.569	1.906	2MH
562.8		2.895	6.696	3.326	.662	11DMCP
574.5		6.181	18.687	9.000	1.793	3MH
588.9		3.177	9.519	4.474	.891	C13DMCP
595.8		3.110	9.931	4.668	.930	T13DMCP
602.4		5. 897	20.033	9.282	1.849	T12DMCP3EP
635.7		10.663	31.279	14.835	2.955	N-HEP
685.2		34.418	189.653	52.353	18.428	MCH/C12DMC
715.8		1.477	4.901	2.345	.467	ECP
775.2		24.832	74.626	43.638	8.692	TOL
				7735ppb		

Trilab 2888 Analysis 4.86
SAMPLE B681 MOBIL NOR 6487/5-1 88C452 (.38R)
Plotting factors 11563.012 -13.791
99.9

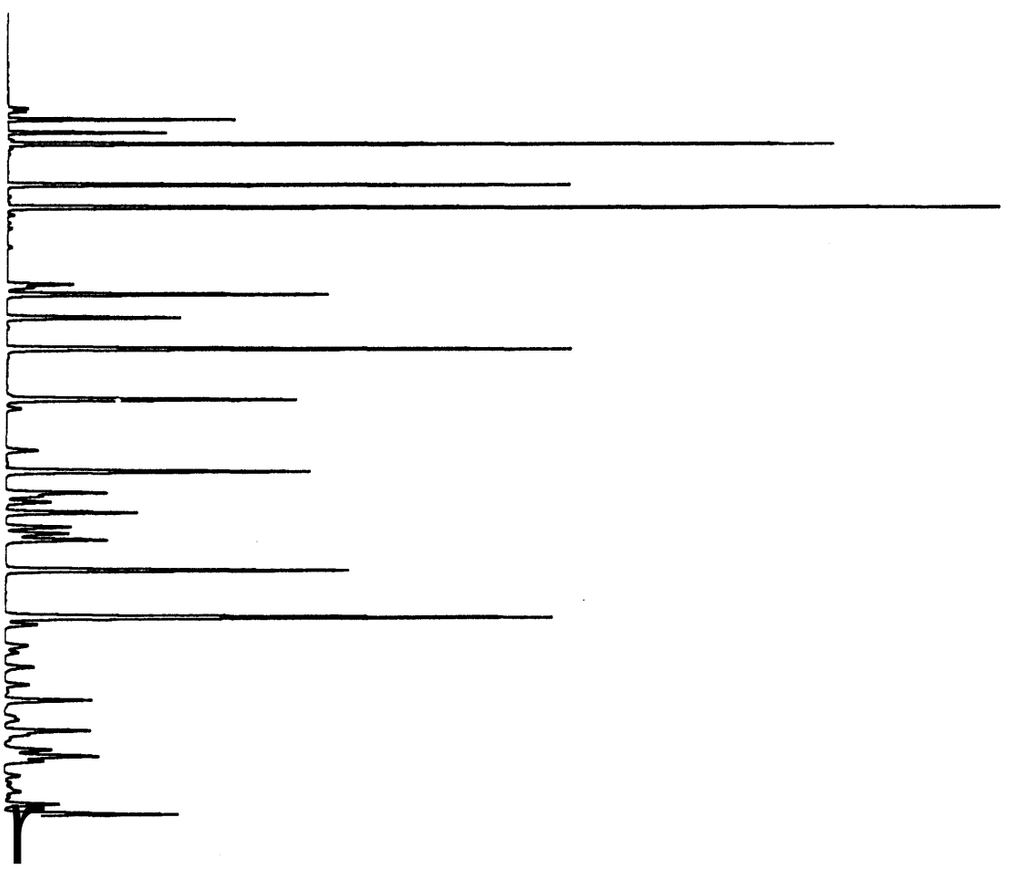


Trilab 2888 Analysis 4.86
SAMPLE 8633 MOBIL HOR 6487/5-i 8SC458 (.30R) FIGURE 5.19
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK: HT	PEAK AREA	PEAK COHC	%CONC	PEAK NAME
230.4		66.711	128.698	55.883	1.931	IC4
243.0		331.636	fa26.0Gb	289.983	10.022	HC4
2ßo.3		225.153	474.,088	206.060	7.122	IC5
312.9		398.646	865.,178	400.073	13.82?	NC5
356.1		2.011	5.,094	2.248	.077	22DMB
398.4		27.,113	71.,758	35.434	1.226	CP
482.8		11.,847	28.,134	12.968	.448	23DMB
409.2		128.927	336.318	143.249	4.951	2MP
434.7		69.565	189.,843	88.090	3.044	3MP
463.3		226.224	611.915	308.161	10.650	N-HEX
524.4		116.326	358.,908	176.587	6.100	MCP/22DMP
534. 7.		5.948	18.147	9.267	.320	24DMP
579.3		12.888	41.754	20.986	.725	BEN .
593.7		1.182	4.156	2.031	.070	33DMP
602.1		121.241	334.967	174.775	6.040	C-HEX
625.8		48.,868	171.402	81.228	2.807	2MH
636.3		13.,484	59.,403	29.505	1.020	11DMCP
647.7		52.,566	168,.782	77.400	2.675	3MH
663.6		26.322	82.418	38.736	1.339	C13DMCP
670.5		25.,318	87.335	41.847	1.419	T13DMCP
677.4		48.,682	136,.104	63.064	2.180	T12DMCP3EP
718.4		137.526	417,.258	197.894	6.839	N-HEP
762.9		219,.879	736.,842	351.803	12.158	MCH/C12DMC
793.5		9.106	37.762	18.066	.624	ECP
853.5		34.396	117.972	68.986	2.384	TOL
				45375ppb		

Trilab 2000 Analysis 4.8G
SAMPLE B683 MOBIL HOR 6487/5-1 88C458 (.38R)
Plotting factors . 2256.594 -98.438
99.9

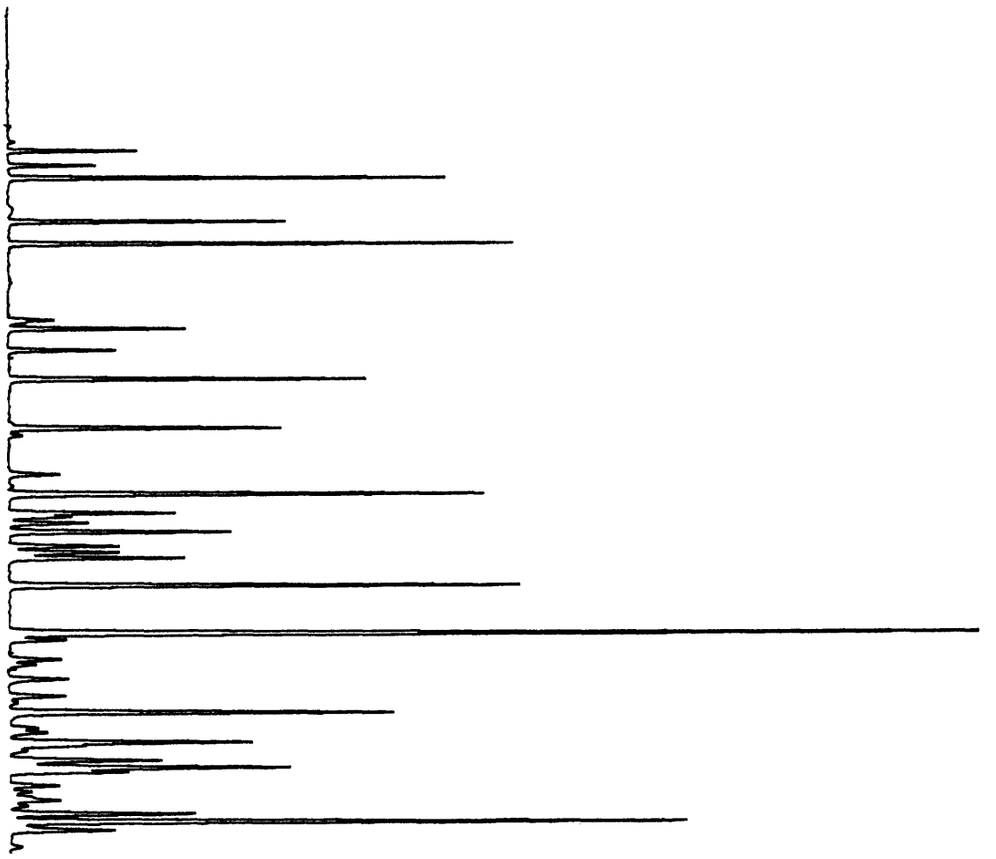


Trilab 2888 Analysis 4.8G
SAMPLE B684 MOBIL NOR 6407/5-1 88C461 (.30R) FIGURE 5.20
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
273.0		2.972	6.961	3.223	1.153	IC4
286.5		14.819	34.781	16.111	5.765	NC4
334.2		9.412	23.234	10.120	3.622	IC5
353.3		17.182	41.843	19.349	6.924	NC5
401.4		.079	.177	.878	.828	22DMB
441.6		1.556	4.405	2.178	.779	CP
444.9		.566	1.387	.602	.216	23DMB
451.5		5.979	16.273	6.931	2.480	2MP
475.2		3.660	10.411	4.831	1.729	3MP
506.7		12.873	32.785	16.511	5.988	N-HEX
559.8		9.142	27.377	13.771	4.928	MCP/22DMP
568.2		.431	1.157	.591	.212	24DMP
611.1		1.700	5.500	2.765	.989	BEN
624.0		.119	.353	.172	.862	33DMP
632.4		16.101	51.669	23.458	8.394	C-HEX
653. 1		5.603	23.644	11.205	4.010	2MH
664.2		2.683	8.690	4.316	1.545	11DMCP
673.8		7.516	23.498	11.313	4.050	3MH
689.7		3.739	11.960	5.621	2.012	C13DMCP
696.6		3.719	13.368	6.283	2.248	T13DMCP
702.9		5.938	19.732	9.143	3.272	T12DMCP3EP
733.2		17.351	53.949	25.587	9.156	N-HEP
785.1		32.960	114.832	54.826	19.628	MCH/C12DMC
814.2		1.786	6.135	2.935	1.050	ECP
372.4		13.061	47.865	27.522	9.849	TOL
				13970ppb		

Trilab 2888 Analysis 4.86
SAMPLE B634 MOBIL NOR 6487/5-1 88C461 (.38R>
Plotting factors 26623.477 73.920
99.9

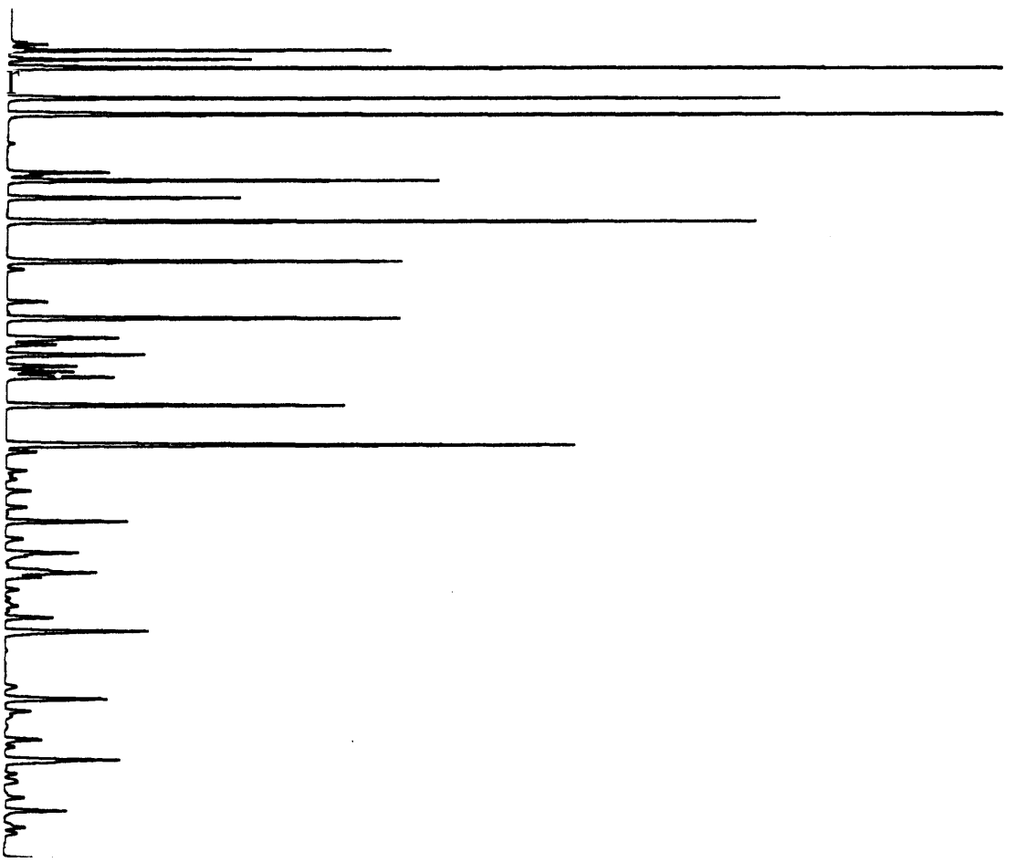


Trilab 2860 Analysis 4.8G
SAMPLE B688 MOBIL NOR 6407/5-1 38C464 (.30R) FIGURE 5.21
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME	
154.8		270.567	361.299	167.282	2.332	IC4	
162.0		77.176	100.814	46.698	.651	NC4	
197.4		860.542	1430.632	621.817	8.667	IC5	
215.4		1108.311	2379.779	1100.461	15.333	NC5	*
247.2		7.429	15.466	6.799	.095	22DMB	
273.4		110.062	217.181	107.395	1.497	CP	
231.4		35.510	62.770	28.915	.403	23DMB	
287.1		476.264	949.550	404.445	5.637	2MP	
306.3		256.184	559.633	259.215	3.613	3MP	
332.7		834.173	1806.206	909.607	12.673	H-HEX	
376.2		439.099	1044.201	525.233	7.321	MCP/22DMP	
384.9		19.104	48.341	24.687	.344	24DMP	
420.0		44.775	110.388	55.482	.773	BEN	
432.3		3.425	9.156	4.473	.062	33DMP	
438.6		436.791	1136.034	515.759	7.189	C-HEX	
460.5		123.746	429.278	203.436	2.836	2MH	
467.4		55.324	149.540	74.275	1.035	11DMCP	
478.8		153.535	403.097	194.145	2.706	3MH	
491.1		76.992	203.273	95.541	1.332	C13DMCP	
497.1		75.009	194.360	91.349	1.273	T13DMCP	
502.8		118.602	352.143	163.165	2.274	T12DMCP3EP	
533.7		375.508	961.191	455.876	6.354	N-HEP	
577.8		632.245	1788.895	854.102	11.905	MCH/C12DMC	
535.6		33.768	99.236	47.477	.662	ECP	
661.2		134.936	370.894	216.886	3.023	TOL	
				304915ppb			

Trilab 2000 Analysis 4.88
SAMPLE B688 MOBIL NOR 6407/5-1 38C464 (.3øR)
Plotting factors 811.357 -101.130
99.9

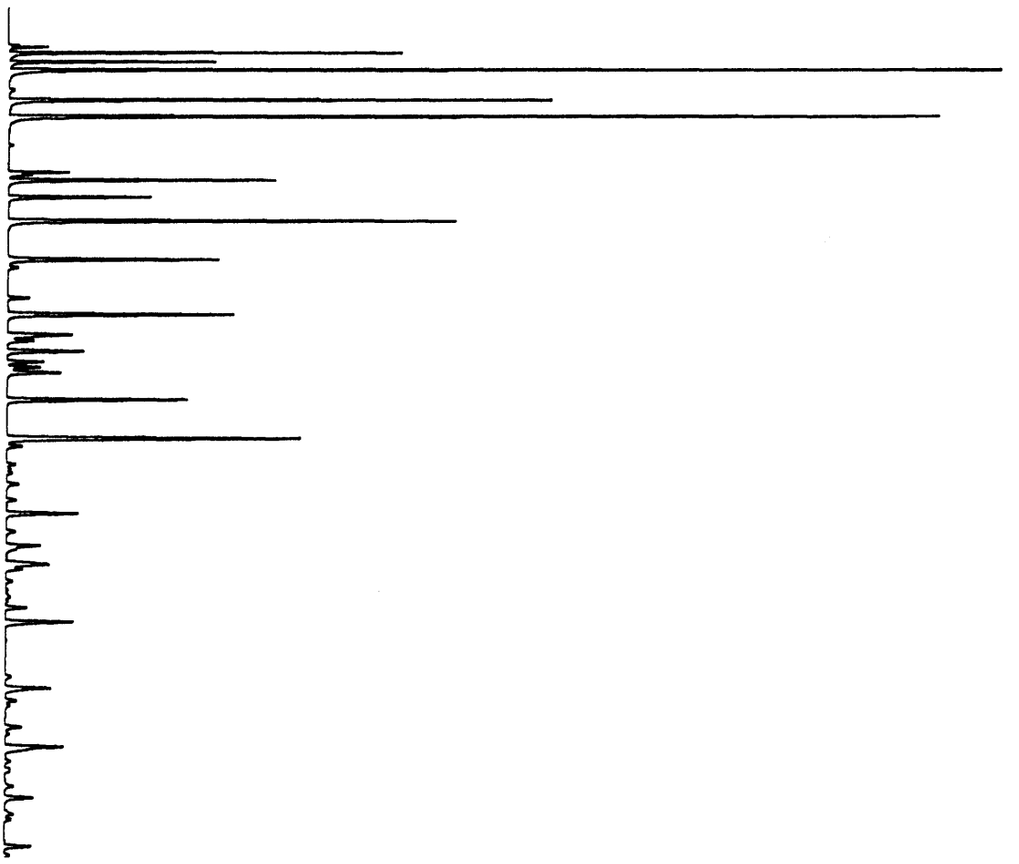


Trilab 2000 Analysis 4.86
SAMPLE 6698 MOBIL HOR 6487/5-1 8C 468 (.30R) FIGURE 5.22
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK COHC	%CONC	PEAK NAME	
159.3		187.673	268.375	124.253	3.023	IC4	
168,.3		902.835	1387.613	605.706	14.734	HC4	*
201.3		492.911	792.155	344.306	8.375	IC5	
219,.0		846.182	1408.874	651.493	15.848	HC5	
258,.5		4.436	9.544	4.196	.102	22DMB	
281.1		54.224	104.384	51.617	1.256	CP	
234,.1		21.827	43.731	20.145	.498	23DMB	
289,.8		243.364	491.440	209.321	5.092	2MP	
308.7		128.242	275.326	127.756	3.108	3MP	
334,.5		405.475	864.008	435.115	10.584	N-HEX	
376,.5		190.595	446.697	224.688	5.466	MCP/22DMP	
385.2		9.882	27.285	13.893	.338	24DMP	
419,.4		19.767	48.697	24.476	.595	BEN	
431.4		1.781	4.321	2.111	.051	33DMP	
437,.1		204.799	529.984	248.613	5.853	C-HEX	
459.0		59.705	195.299	92.552	2.251	2MH	
465.6		24.788	68.218	33.883	.824	11DMCP	
477.0		69.854	182.218	87.759	2.135	3MH	
488.7		32.981	84.857	39.587	.961	C13DMCP	
494.7		38.862	78.317	37.044	.901	T13DMCP	
588.4		48.857	143.903	66.677	1.622	T12DMCP3EP	
531.8		163.998	416.055	197.327	4.800	N-HEP	
573.3		266.692	753.154	359.591	8.747	MCH/C12DMC	
601.5		8.673	23.421	11.206	.273	ECP	
655.8		65.671	188.672	185.658	2.578	TOL	
				331210ppb			

Trilab 2888 Analysis 4.88
SAMPLE B698 MOBIL HOR 6407/5-1 8C 468 (.30R)
Plotting factors 996.715 -99.426
99.9

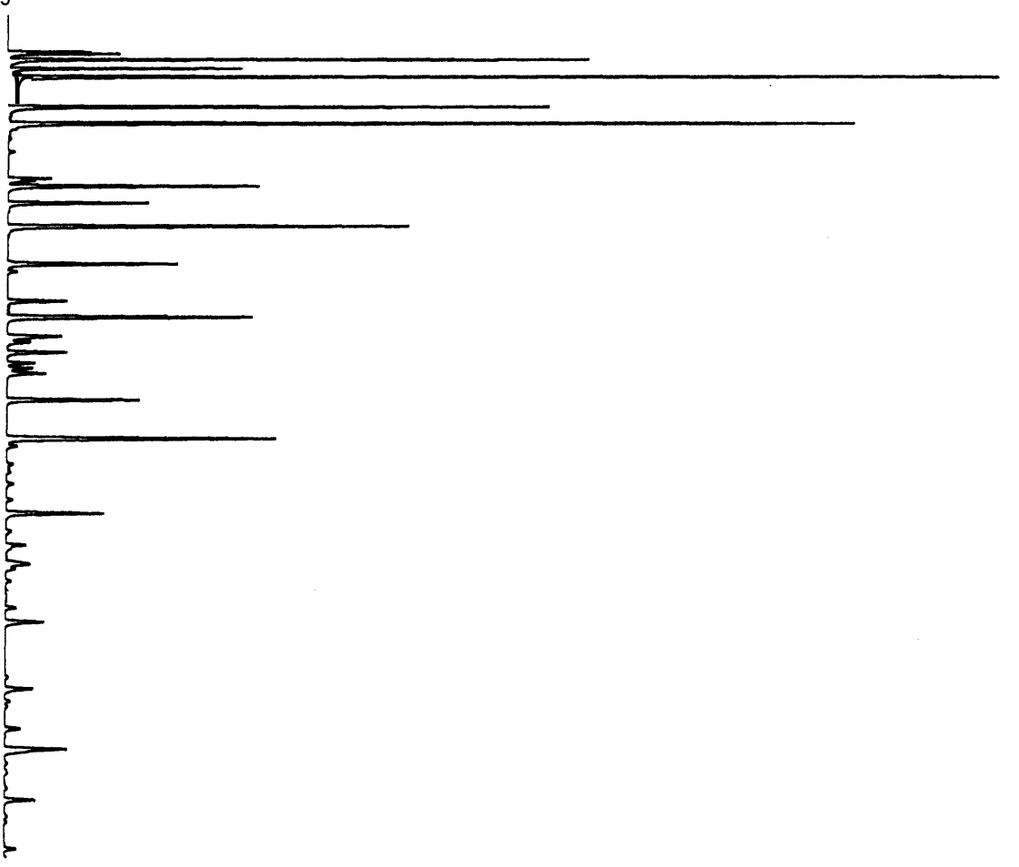


Trilab 2000 Analysis 4.8G
SAMPLE B691 MOBIL NOR 6407/S-1 8C 472 (.30R) FIGURE 5.23
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
159.0		188.437	259.313	120.062	3.589	IC4
168.H		767.173	1152.568	533.885	15.958	NC4
208.7		417.414	694.122	381.697	9.018	IC5
218.4		655.459	1183.558	510.305	15.253	NC5
249.3		5.168	10.625	4.671	.140	22DMB
279.6		33.692	64.664	31.976	.956	CP
282.3		20.866	43.228	19.913	.595	23DMB
288.0		194.061	482.972	171.639	5.130	2MP
306.3		187.932	230.336	186.888	3.195	3MP
331.5		309.038	646.683	325.670	9.734	N-HEX
372.9		130.982	311.848	156.860	4.689	MCP/22DMP
381.3		8.257	28,.753	i0.599	.317	24DMP
414.6		4•6.528	113,747	57.170	1.709	BEN
426,8		1.799	8.86H	4.329	.129	33DMP
432.0		189.132	485,.541	228.435	6.589	C-HEX
453.0		41,.728	138,.457	65.615	1.961	2MH
459.6		17.706	49,.394	24.534	.733	11DMCP
470.4		46,. 084	128,.778	58.167	1.739	3MH
482.1		21,.176	53,.682	25.238	.754	C13DMCP
487.8		19,. 535	51,.283	24.065	.719	T13DMCP
493.8		29,.713	89,.233	41.346	1.236	T12DMCP3EP
523.5		101.357	257.452	122.105	3.650	N-HEP
565.5		287,.191	578.419	276.165	8.255	MCH/C12DMC
593. l		5.391	14,.681	7.824	.218	ECP
647.4		75,.034	214.208	125.261	3.744	TOL
				542530ppb		

Trilab 2888 Analysis 4.86
SAMPLE B691 MOBIL NOR 6487/5-1 8C 472 (.30R)
Plotting factors 1172.947 -97.988
99.9

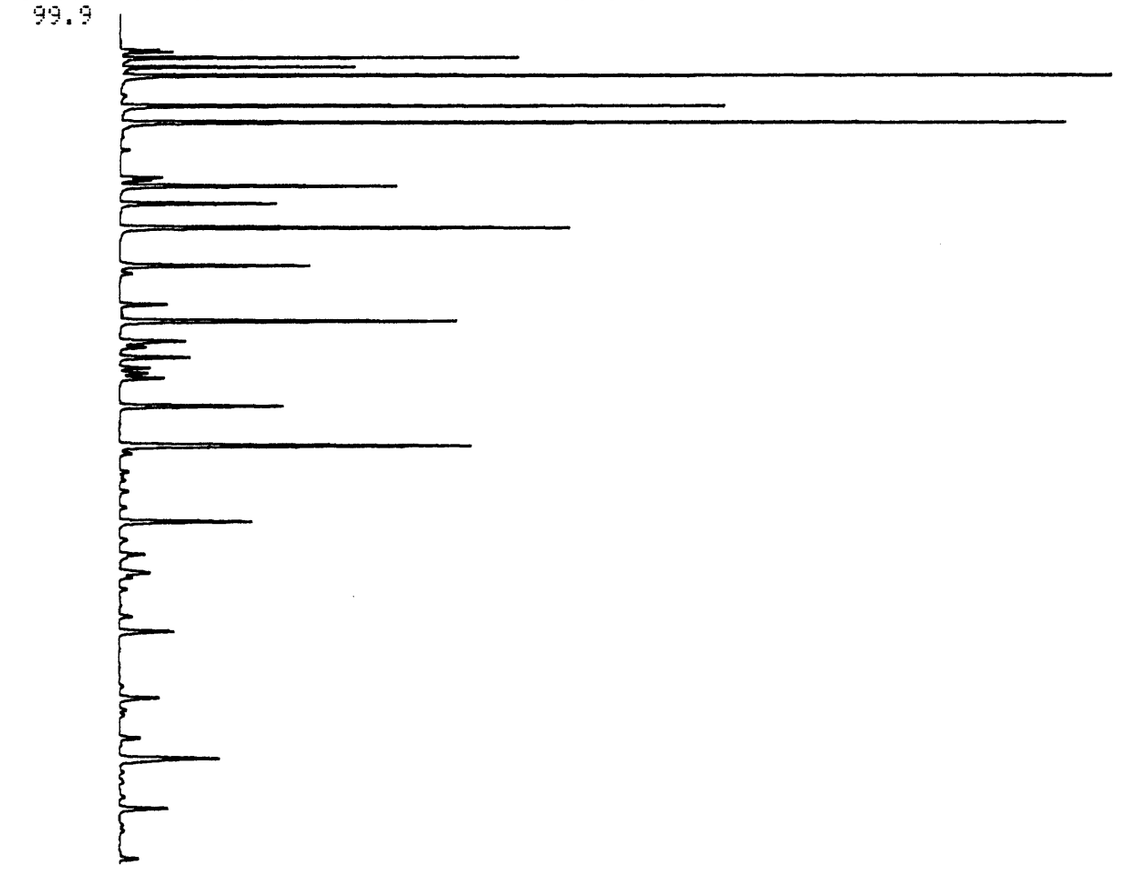


Trilab 2000 Analysis 4.86
SAMPLE B692 MOBIL HOR 6407/5-1 8C 476 (.30R) FIGURE 5.24
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
158.1		95.752	130.197	60.281	3.017	IC4
167.1		406.774	564.373	261.425	13.885	NC4
200.1		247.379	396.642	172.399	8.629	IC5
217.8		388.254	644.166	297.876	14.909	NC5
249.0		3.677	[illegible]	3.456	.173	22DMB
279.6		17.288	[illegible]	15.966	.799	CP
282.9		12.154	28.563	13.158	.659	23DMB
[illegible]		113.199	237.369	101.316	5.871	2MP
387.2		64.295	137.101	63.617	3.184	3MP
333.5		183.805	402.037	202.466	10.134	N-HEX
375.6		77.532	190.537	95.840	4.797	MCP/22DMP
384.6		4.925	12.784	6.488	.325	24DMP
418.8		19.549	46.421	23.332	1.168	BEN
430.8		1.278	3.381	1.652	.083	33DMP
436.5		137.976	348.987	158.448	7.930	C-HEX
458.7		27.248	86.743	41.108	2.858	2MH
465.3		10.797	29.996	14.899	.746	11DMCP
476.7		23.783	75.747	36.483	1.826	3MH
488.4		12.437	32.255	15.160	.759	C13DMCP
494.4		11.771	30.951	14.547	.728	T13DMCP
588. l		18.076	54.196	25.112	1.257	T12DMCP3EP
531.0		67.058	174.568	82.791	4.144	N-HEP
573.9		144.094	408.792	195.176	9.769	MCH/C12DMC
682.4		3.857	18.462	5.005	.251	ECP
657.3		[illegible]	153.785	89.928	4.501	TOL
				323985ppb		

Trilab 2000 Analysis 4.86
SAMPLE B692 MOBIL NOR 6487/5-1 8C 476 (.38R>
Plotting factors 2211.772 -98.876



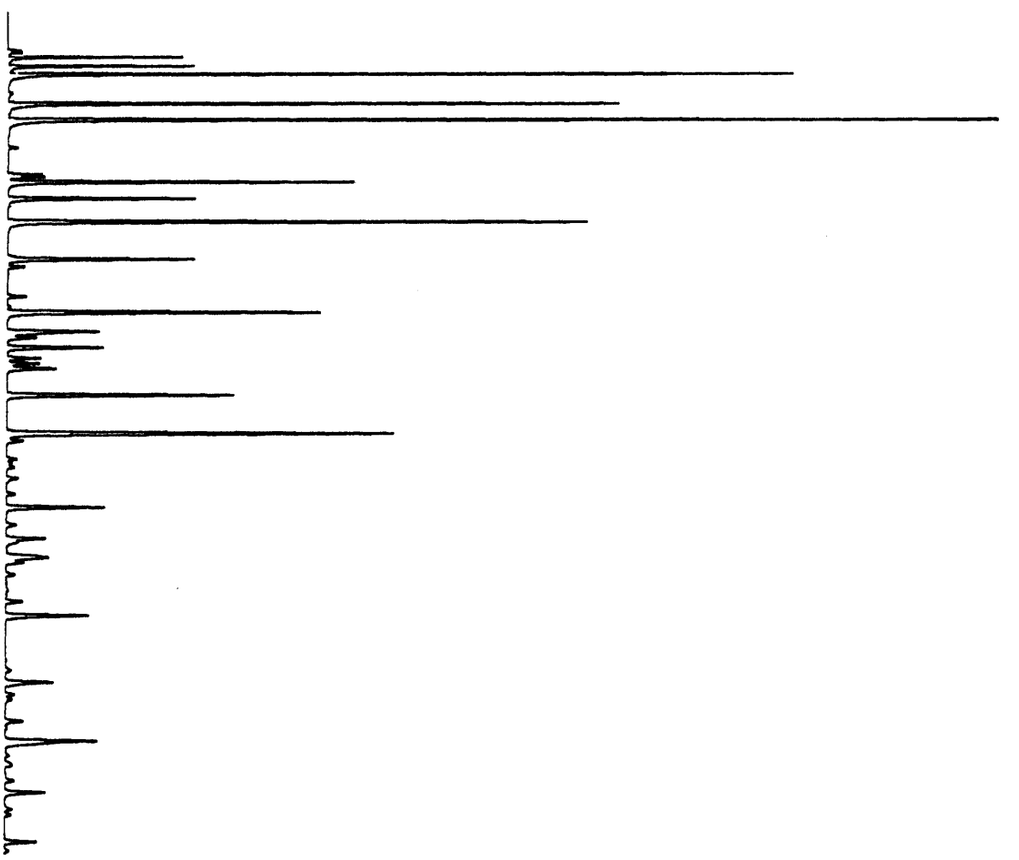
Trilab 2000 Analysis 4.8G
SAMPLE B693 MOBIL NOR 6407/5-1 88C480 (.30R) FIGURE 5.25
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
159.0		131.676	198.164	91.758	2.968	IC4
168.8		558.804	822.691	381.832	12.294	NC4
288.4		434.239	736.410	320.077	10.326	IC5
214.5		1.050	3.977	1.839	.059	NC5
248.7		7.332	15.427	6.782	.219	22DMB
270>7		24.206	46.951	23.217	.749	C5
282.8		24.772	58.745	27.861	.873	23DMB
287. 1		245.256	521.333	222.853	7. 164	2MP
305.7		131.976	286.431	132.909	4.288	3MP
330.6		411.746	867.971	437.111	14.101	N-HEX
372.8		132.660	320.068	160.994	5.194	MCP/22DMP
388.4		12.353	31.677	16.177	.522	24DMP
413.7		13.343	32.158	16.163	.521	BEN
425.1		2.725	7.426	3.623	.117	33DMP
430.8		222.268	559.988	254.231	8.202	C-HEX
451.3		65.171	206.946	98.872	3.164	2MH
458.4		28.583	57.597	28.608	.923	11DMCP
469.2		68.052	175.900	84.720	2.730	3MH
480.9		23.852	62.045	29.161	.941	C13DMCP
486.6		22.807	58.465	27.479	.386	T13DMCP
492.3		34.533	105.742	48.995	1.581	T12DMCP3EP
522.8		160.366	414.690	196.680	6.345	N-HEP
564.0		274.671	763.913	364.723	11.766	MCH/C12DMC
591.6		7.263	28.839	9.587	.389	ECP
645.6		78.297	199.536	116.682	3.764	TOL

466280ppb

Triiab 2888 Analysis 4.8G
SAMPLE B693 MOBIL NOR 6407/5-1 88C483 (.38R)
Plotting factors 1276.732 -97.395
99.9

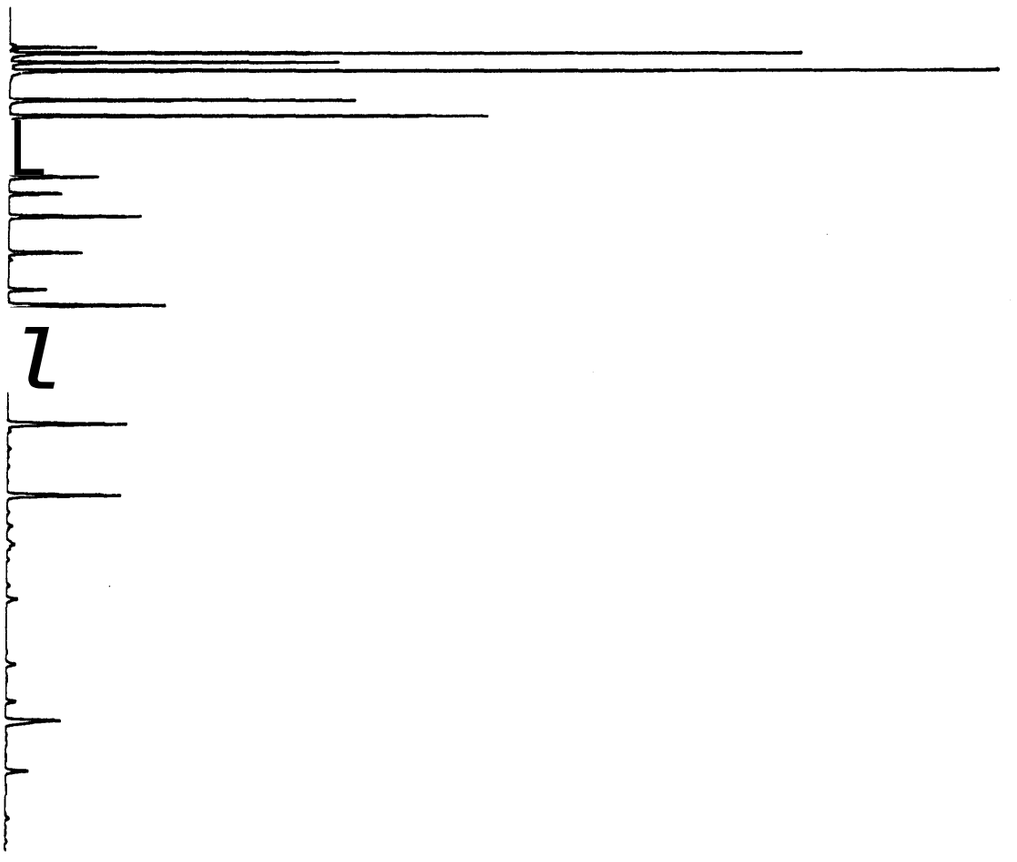


Trilab 2000 Analysis 4.8G
SAMPLE 8695 MOBIL NOR 6487/5-l 83C433 (.30R) FIGURE 5.26
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME	
159.6		340.198	412.857	191.153	7.778	IC4	
163.3		1026.146	1328.133	615.289	25.833	NC4	*
200.7		356.584	536.819	233.326	9.494	IC5	
217.6		496.090	734.419	339.611	13.819	NC5	
247.8		3.990	7.539	3.314	.135	22DMB	
277.0		24.805	46.196	22.844	.930	fiD	
279.9		12.476	23.892	10.965	.446	23DMB	
285.6		92.280	188.423	76.848	3.127	2MP	
383.6		53.662	186.752	49.535	2.016	3MP	
323.2		136.254	276.772	139.383	5.671	N-HEX	
369.9		76.057	167.792	84.399	3.434	MCP/22DMP	
377.1		3.482	7.818	3.992	.162	24DMP	
489.8		39.221	85.786	43.117	1.754	BEN	
421,2		.985	2.922	1,428	.858	33DMP	
426.9		161.271	379.430	172.261	7.009	C-HEX	
447.0		16.299	50.253	23.815	.969	2MH	
453.9		8.100	21.298	10.558	.430	11DMCP	
464.i		17.135	41.848	20.155	.820	3MH	
475.3		8.441	28.275	9.529	.388	C13DMCP	
481.5		7.934	19,678	9,248	.376	T13DMCP	
486.9		12.318	33.325	15.441	.628	T12DMCP3EP	
515.4		37.842	92.767	43.998	1.790	N-HEP	
556.5		122.116	324.731	155.066	6.310	MCH/C12DMC	
583.2		2.968	7.646	3.658	.149	ECP	
635.1		116.703	305.708	178.768	7.274	TOL	
				710405ppb			

Trilab 2888 Analysis 4.8G
SAMPLE 8695 MOBIL NOR 6487/5-1 88C433 (.30R)
Plotting factors 872.884 -183.736
99.9



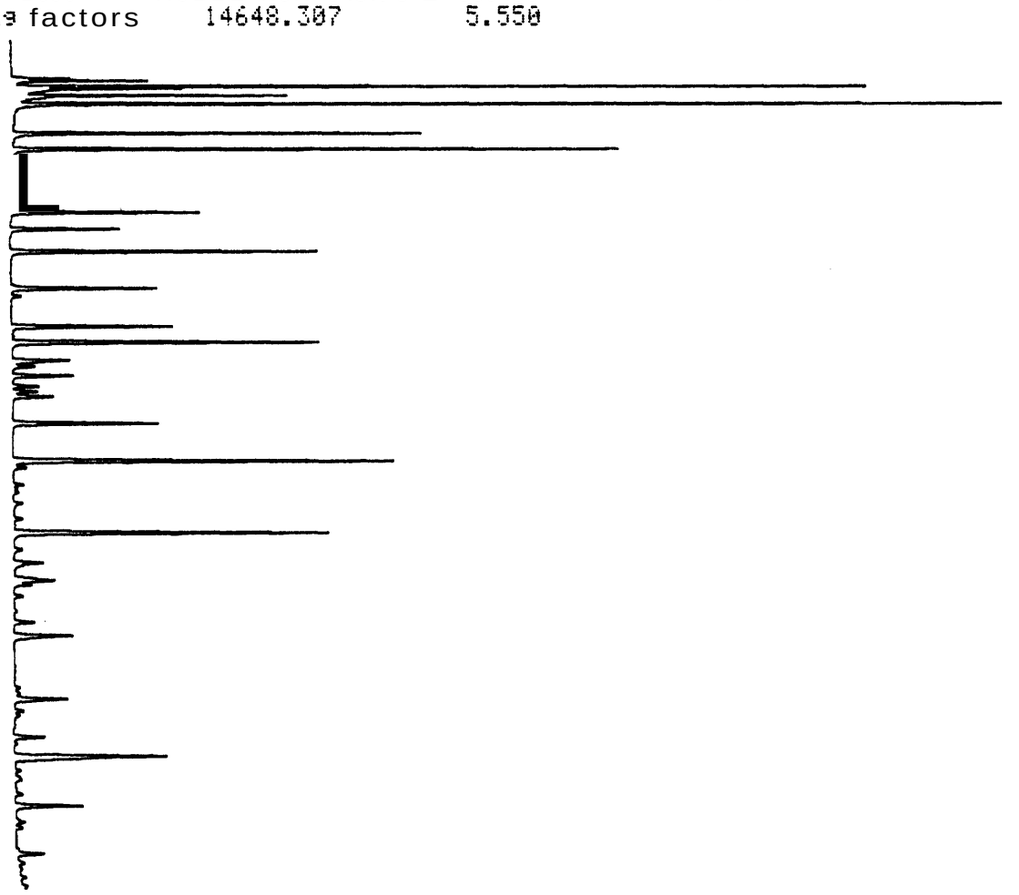
Trilab 2869 Analysis 4.8G
SAMPLE 6696 MOBIL HQR 6407/5-1 38C486 (.30R) FIGURE 5.27
Method : GASOLINE

GASOLINE (Area)

RETH TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
168.2		16.904	46.312	21.442	7.657	IC4
169.2		61.109	31.792	37.387	13.538	NC4
201.6		25.238	39.543	17.137	6.138	IC5
219.8		37.539	59.941	27.718	9.898	NC5
249.9		.409	.777	.342	.122	22DMB
279.9		2.345	4.608	2.279	.814	CP
282.9		1.413	3.179	1.464	.523	23DMB
238.3		11.797	24.726	18.532	3.761	2M[illegible]
306.6		6.814	14.315	6.643	2.372	3MP
331.5		13.915	38.677	19.478	6.956	N-HEX
372.6		9.063	21.689	18.989	3.896	MCP/22DMP
381.0		.713	2.286	1.127	.402	24DMP
414.3		9.903	23.676	11.900	4.249	BEN
426.8		.215	.644	.315	.112	33DMP
431.4		19.819	46.408	21.069	7.524	C-HEX
452. 1		3.484	11.229	5.322	1.900	2MH
458.7		1.360	3.876	1.925	.687	11DMCP
469.2		3.771	9.645	4.645	1.659	3MH
480.9		1.651	4.184	1.966	.702	C13DMCP
486.6		1.547	3.967	1.865	.666	T13DMCP
492.0		2.498	7.226	3.348	1.196	T12DMCP3EP
521.1		3.875	21.623	10.256	3.662	N-HEP
561.9		23.588	62.935	38.848	10.730	MCH/C12DMC
538.6		.630	1.829	.875	.312	ECP
640.5		19.375	50.432	29.491	10.531	TOL

82230ppb

Trilab 2888 Analysis 4.8G
SAMPLE B696 MOBIL HOR 6487/5-1 88C486 (.30R)
Plotting factors 14648.307 5.550
99.9

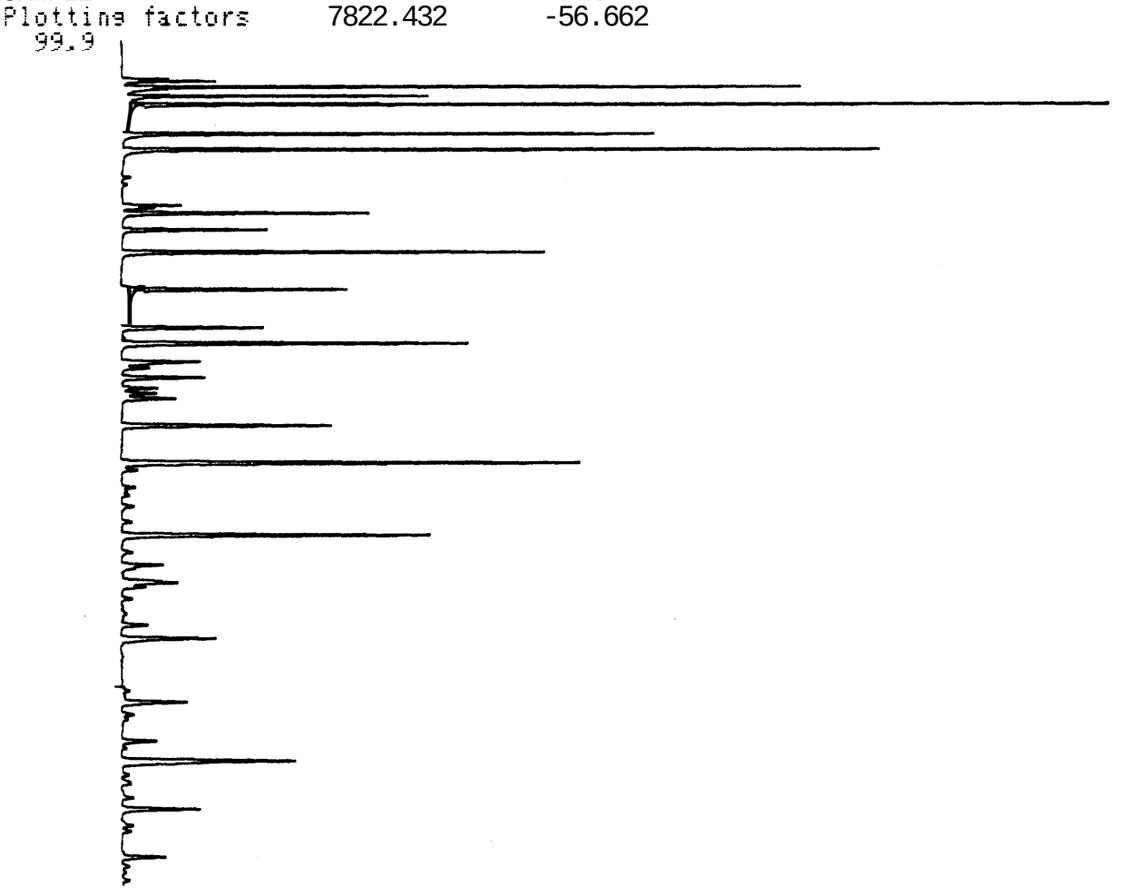


Trilab 2000 Analysis 4.86
SAMPLE 8697 MOBIL HOR 6407/5-1 88C498 (.30R) FIGURE 5.28
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK Hi	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
160.2		39.331	- 71.442	33.078	4.695	IC4
169.2		127.688	197.131	91.314	12.960	HC4
281.6		68.483	115.759	50.314	7.141	IC5
219.8		97.772	169.396	78.363	11.17	NCo
249.9		1.117	2.228	.976	.139	22DMB
288.2		7.621	14.659	7.249	1.029	CP
282.9		4.202	8.385	3.826	.543	23DMB
288.6		31.671	65.824	28.836	3.979	2MP
306.9		18.514	38.889	18.045	2.561	3MP
332.1		54.500	114.448	57.632	8.179	H-HEX
373.2		29.342	68.841	34.627	4.914	MCP/22DMP
381.6		1.733	4.501	2.299	.326	24DMP
414.9		18.053	42.545	21.383	3.835	BEN
426.6		.358	.969	.473	.867	33DMP
432.3		44.542	111.185	50.478	7.164	C-HEX
453.8		9.976	31.209	14.790	2.099	2MH
459.9		3.534	9.851	4.893	.694	11DMCP
478.4		18.632	27.599	13.292	1.887	3MH
482.1		4.606	11.778	5.536	.786	C13DMCP
487.8		4.405	11.285	5.304	.753	T13DMCP
493.2		6.914	20.236	9.376	1.331	T12DMCP3EP
522.6		26.932	67.697	32.107	4.557	N-HEP
563.7		59.067	168.622	76.688	10.884	MCH/C12DMC
590.7		1.815	5.515	2.639	.375	ECP
642.9		39.719	185.868	61.983	8.786	TOL
				176150ppb		

Trilab 2888 Analysis 4.86
SAMPLE B697 MOBIL NOR 6487/5-1 88C490 (.30R)
Plotting factors 7822.432 -56.662

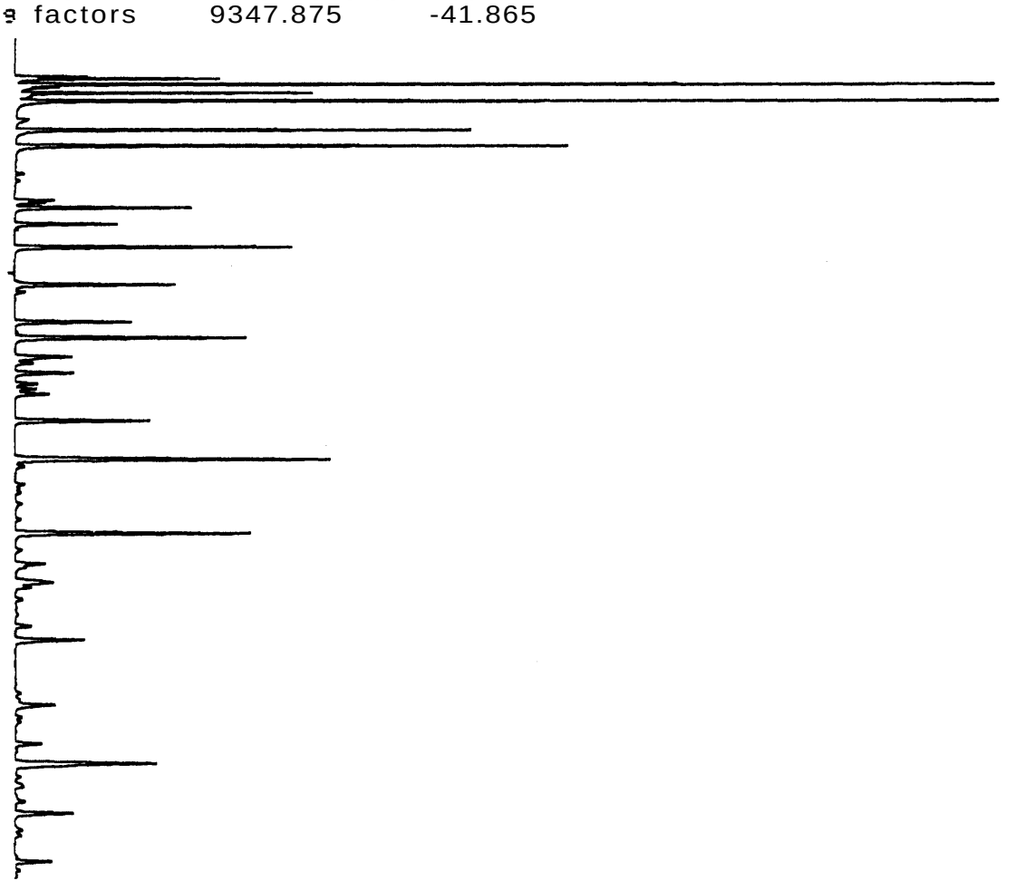


Trilab 2000 Analysis 4.8G
SAMPLE 8698 MOBIL NOR 6407/5-1 3C496 (.30R) FIGURE 5.29
Method : GASOLINE

GASOLINE (Area)

RETN TINE	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
159.6		28.986	49.583	22.957	5.737	IC4
168.3		95.761	134.741	62.414	15,596	NC4
200.7		44.397	73.602	31.991	7.994	IC5
218.1		53.775	90.016	41.625	10.402	NC5
248.7		.862	1.yd7	.829	.207	22DMB
278.4		3.939	7.391	3.655	.913	CP
281.1		2.964	5.900	2.718	.679	23DMB
286.8		17.189	34.565	14.722	3.679	2MP
305.1		9.956	20.702	9.606	2.401	3MP
330.0		27.006	56.233	28.319	7.077	N-HEX
371.4		15.640	36.411	18.315	4.577	MCP/22DMP
379.8		.996	2.314	1.182	.295	24DMP
413.1		11.365	26.928	13.538	3.381	BEN
424.8		.267	.800	.391	.098	33DMP
438.5		22.485	55.856	25.358	6.337	C-HEX
451.5		5.666	17.839	8.454	2.113	2MH
458.1		1.755	4.997	2.482	.620	11DMCP
468.9		5.742	15.328	7.383	1.845	3MH
480.9		2.236	5.720	2.688	.672	C13DMCP
486.6		2.133	5.513	2.591	.648	T13DMCP
492.3		3.318	10.143	4.700	1.174	T12DMCP3EP
522.3		13.065	33.716	15.991	3.996	N-HEP
564.3		30.615	84.855	40.132	10.028	MCH/C12DMC
591.9		.888	2,184	1.887	.252	ECP
645.3		22.363	63.512	37.140	9.281	TOL
				69260ppb		

Trilab 2000 Analysis 4.8G
SAMPLE B693 MOBIL HOR 6487/5-1 8C496 (.30R)
Plotting factors 9347.875 -41.865
99.9

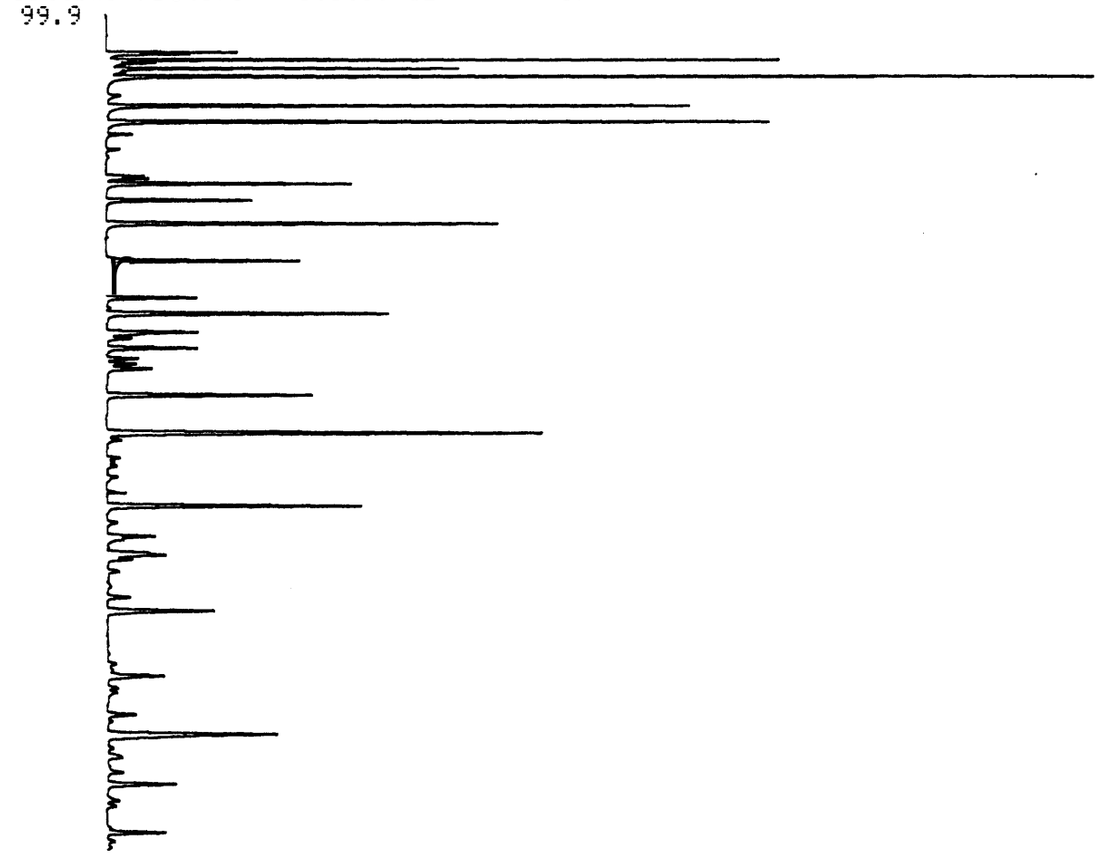


Trilab 2000 Analysis 4.8G
SAMPLE B699 MOBIL NOR 6407/5-1 8C 583 (.30R) FIGURE 5.30
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RET	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
160.2		23.445	38.771	17.951	5.425	IC4
169.2		65.826	92.288	42.749	12.928	NC4
201.6		38.792	64.256	27.929	3.441	IC5
219.8		44.167	73.324	34.138	10.318	NC5
249.3		.919	2.584	1.101	.333	22DMB
279.3		2.442	4.628	2.288	.692	CP
282.6		2.397	5.681	2.617	.791	23DMB
287.7		16.213	33.058	14.081	4.256	2MP
306.8		9.661	19.920	9.243	2.794	3«P
331.2		26.005	54.306	27.349	8.266	N-HEX
372.3		12.723	29.281	14.728	4.451	MCP/22DMP
380.4		.992	2.327	1.188	.359	24DMP
413.7		5.897	13.225	6.647	2.889	BEN
425.1		.185	.351	.171	.052	33DMP
430.8		18.618	45.310	28.571	6.217	C-HEX
451.5		5.938	18.069	8.563	2.538	2MH
458.1		1.604	4.397	2.184	.668	110MCP
468.9		5.975	15.163	7.383	2.287	3MH
480.3		1.999	4.938	2.321	.701	C13DMCP
486.0		1.930	4.971	2.336	.786	T13DMCP
491.7		2.988	3.823	4.088	1.236	T12DMCP3EP
521.1		13.567	34.846	16.527	4.995	N-HEP
562.5		28.732	77.460	36.983	11.178	MCH/C12DMC
589.8		.842	2.580	1.234	.373	ECP
642.6		16.841	45.450	26.573	8.033	TOL
				27305ppb		

Trilab 2000 Analysis 4.8G
SAMPLE 8699 MOBIL NOR 6407/5-1 8C 503 (.30R)
Plotting factors 13665.412 -6.523

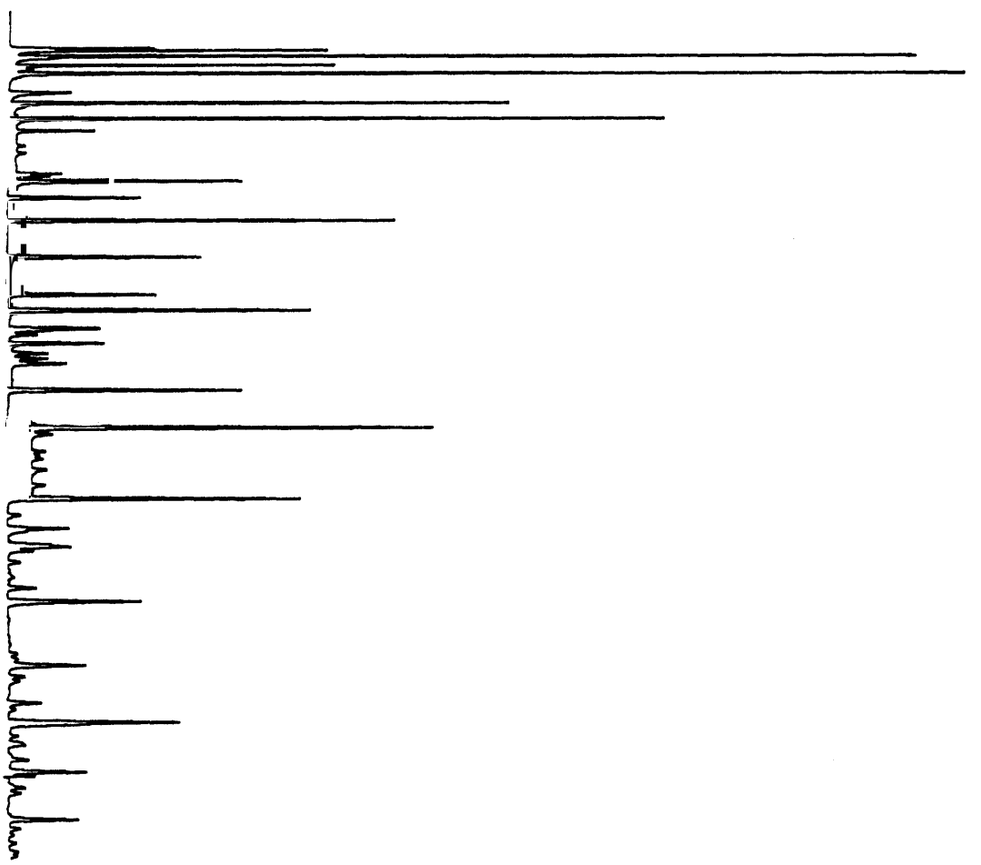


Trilab 2000 Analysis 4.8G
SAMPLE 6702 MOBIL NOR 6407/5-1 SSC505 (.30R) FIGURE 5.31
Method : GASOLINE

GASOLINE (Area)

RETN TIME	REL RE	PEAK HT	PEAK AREA	PEAK CONC	%CONC	PEAK NAME
158.7		14.683	23.973	11.102	5.007	IC4
167.7		43.328	58.819	27.246	12.289	NC4
200.1		22.630	35.878	15.594	7.034	IC5
217.3		29.670	45,528	21.053	9.496	NC5
255.6		.442	1.035	,455	,205	22DMB
277.8		2.050	3.733	1.346	.333	CP
280.8		1.383	2.829	1.303	.588	23DMB
286.2		10.610	21.616	9.207	4.153	2MP
304.2		6.032	12.533	5.815	2.623	3MP
329.1		17.477	35.306	17.780	8.020	H-HEX
369.6		8.788	20.208	10.165	4.585	MCP/22DMP
377.7		.682	1.706	,371	,393	24DMP
410.7		6.719	15.136	7.608	3.431	BEN
421.8		,168	.389	.190	.086	33DMP
427.5		13.655	31.993	14.525	6.551	C-HEX
447.6		4.064	12.197	5.780	2.607	2MH
454.2		1.242	1.206	1.593	.713	11DMCP
464.4		4.367	10.315	5.209	2.349	3MH
476.1		1.625	3.980	1.871	.344	C13DMCP
481.5		1.543	3.669	1.725	,778	T13DMCP
486.9		2.431	7.079	3.280	1.479	T12DMCP3EP
515.7		10.556	26.012	12.337	5.564	N-HEP
556.5		19.283	50.513	24.117	10.878	MCH/C12DMC
582.9		.528	1.150	.550	.243	ECP
634.5		13.259	35.038	20.489	9.241	TOL
				16955ppb		

Trilab 2008 Analysis 4.8G
SAMPLE 8702 MOBIL NOR 6407/5-1 88C505 (.30R)
Plotting factors 20002.682 24.859
99.9



APPENDIX 1

ABBREVIATIONS USED IN ANALYTICAL DATA SHEETS

a/a	-	as above
Ac	-	acritarchs
ADD	-	mud additive
Al	-	algae
Am	-	amorphous
ang	-	angular
ANH	-	anhydrite
aren	-	arenaceous
arg	-	argillaceous
BAS	-	basalt
bd	-	bedded/bedding
B(IT)	-	bitumen/bituminous
bl	-	blue
bld	-	bleached
blk	-	black
bri	-	brilliant
brn	-	brown
calc	-	calcareous
CALT	-	calcite
carb	-	carbonaceous
CGL	-	conglomerate
CHK	-	chalk
CHT	-	chert
CLYST	-	claystone
CMT	-	cement
Comp	-	composite
crs	-	coarse
CSG	-	casing point/shoe
Ctgs	-	ditch cuttings
Cu	-	cuticle
C(vd)	-	caved
decarb	-	decarbonated
Di	-	dinocysts
dk	-	dark
DLT	-	dolerite
DOL/dol	-	dolomite/dolomitic
dsk	-	dusky
Ex	-	exinite
Exs	-	exsudatinite
extr	-	extracted
f	-	fine
fel	-	feldspathic
fer	-	ferruginous
flu	-	fluorescence
fm	-	formation
foss	-	fossils/fossiliferous
fr	-	friable
frac	-	fracture
frags	-	fragments
Fu	-	fusinite
GLC/glc	-	glauconite/glauconitic
gn	-	green
grd	-	graded/grading to
grns	-	grains
gy	-	grey
GYP	-	gypsum
HAL	-	halite
hd	-	hard
hor	-	horizontal
H(RV)	-	high reflecting vitrinite
i-	-	iso-
i/b	-	inter-bedded
IGN	-	igneous rocks
inc	-	including
Inert	-	inertinite
lam	-	laminae/lamint ed
LCM	-	lost circulation material
LIG/Lig	-	lignite/lignitic
lns	-	lens(es)
L(RV)	-	low reflecting vitrinite
LST	-	limestone
lt	-	light
mass	-	massive
MDST	-	mudstone
med	-	medium
MET	-	metamorphic rocks
mic	-	mica/micaceous
micr	-	micritic
min	-	mineral
mnr	-	minor
mod	-	moderate
mtl	-	mottled
n-	-	normal
NA	-	not available
nod	-	nodule/nodular
NS	-	no sample
occ	-	occasional
ol	-	olive
ool	-	oolitic
orng	-	orange
OS	-	oil stain
P	-	picked lithology
pal	-	pale
Ph	-	phytane
pnk	-	pink
por	-	porous/porosity
PP	-	purple
Pr	-	pristane
pred	-	predominantly
Prt	-	present
PYR/pyr	-	pyrite/pyritic
QTZ(T)	-	quartz(ite)
Re	-	resin
R(ew)	-	reworked
rnd	-	round(ed)
Sap	-	sapropel
sbng	-	subangular
sbrd	-	subrounded
SCI	-	spore colour index
Sf	-	semifusinite
sft	-	soft
SH	-	shale
shly	-	shaly
sil	-	siliceous
sks	-	slickenside surface
SLA	-	slate
SLT(ST)	-	silt(stone)
slty	-	silty
SND	-	sand
sndy	-	sandy
Sp	-	spores
SST	-	sandstone
st	-	stained
stks	-	streaks
suc	-	sucrosic
surf	-	surface
SWC	-	side wall core
TD	-	total depth
TOC	-	total organic carbon
tr	-	trace(s)
tros	-	transparent
v	-	very
vgt	-	variegated
Vit	-	vitrinite
vn	-	vein
VOLC	-	volcanic rocks
VR	-	vitrinite reflectivity
wht	-	white
xln	-	crystalline
yel	-	yellow
-	-	no analysis carried out
*	-	analysed but no data obtained
gy-gn	-	greyish green
gy/gn	-	grey-green (gradation)
gn-gy	-	greenish grey

Note: (Maturity data tables only). Number in brackets refers to number of reflectivity values averaged to give quoted result. Preferred values for indigenous phytoclasts are listed first.

Robertson Group