MOBIL EXPLORATION NORWAY INC.

WELL 35/11-4

DST RESULTS

DST No : 1 — **INTERVAL : 2676.7 - 2684.2 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 3933 PSIA
AT MID PERFORATIONS

FLOW PERIOD	CHOKE SIZE (in)	OIL RATE (STB/D)	GAS RATE (MMSCF/D)	GOR (SCF/BBL)	BS&W (%)	FLOWING BHP (PSIA)
CLEANUP	32/64	2903	2.895	997	0	3810
MAIN	32/64	2868	2.753	960	0	3812

DST No : 2B — **INTERVAL : 2286.1 - 2293.1 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 3353 PSIA
AT MID PERFORATIONS

FLOW PERIOD	CHOKE SIZE (in)	OIL RATE (STB/D)	GAS RATE (MMSCF/D)	GOR (SCF/BBL)	BS&W (%)	FLOWING BHP (PSIA)
CLEANUP	40/64	3460	1.996	577	0	3075
MAIN	40/64	3428	1.992	581	0	3084

DST No : 3 — **INTERVAL : 2034.0 - 2046.0 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 2984 PSIA
AT MID PERFORATIONS

FLOW PERIOD	CHOKE SIZE (in)	OIL RATE (STB/D)	GAS RATE (MMSCF/D)	GOR (SCF/BBL)	BS&W (%)	FLOWING BHP (PSIA)
CLEANUP	44/64	3814	2.064	541	0	2869
MAIN	48/64	4293	2.305	537	0	2846

DST No : 4B — **INTERVAL : 2000.0 - 2003.0 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 2929 PSIA
AT MID PERFORATIONS

FLOW PERIOD	CHOKE SIZE (in)	OIL RATE (STB/D)	GAS RATE (MMSCF/D)	GOR (SCF/BBL)	BS&W (%)	FLOWING BHP (PSIA)
CLEANUP	32/64	1024	8.929	8720	0	2610
MAIN	16/64	277	2.825	10200	0	2790

NOTE : FLOWING BHP'S QUOTED AT DEPTH OF GAUGE CARRIER (HALLIBURTON)

Table 2.1 DST Results, Production Rates

MOBIL EXPLORATION NORWAY INC.
WELL 35/11-4

DST RESULTS

DST No : 1 — **INTERVAL : 2676.7 - 2684.2 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 3933 PSIA
AT MID PERFORATIONS

FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	903	0.810	0.728	1418	60	3857
MAIN	870	0.810	0.722	1418	73	3859

DST No : 2B — **INTERVAL : 2286.1 - 2293.1 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 3353 PSIA
AT MID PERFORATIONS

FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	465	0.833	0.660	874	65	3137
MAIN	1500	0.831	0.655	882	75	3146

DST No : 3 — **INTERVAL : 2034.0 - 2046.0 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 2984 PSIA
AT MID PERFORATIONS

FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	149	0.833	0.675	794	62	2929
MAIN	725	0.835	0.675	716	71	2907

DST No : 4B — **INTERVAL : 2000.0 - 2003.0 mRKB (YATZY)**

RESULTS — **RESERVOIR TYPE : OIL**
RESERVOIR PRESSURE : 2929 PSIA
AT MID PERFORATIONS

FLOW PERIOD	DURATION (MINUTES)	OIL DENSITY (G/CC)	GAS SPEC. GRAVITY	WHP (PSIA)	WHT (°F)	FLOWING BHP (PSIA)
CLEANUP	403	0.820	0.645	1791	54	2675
MAIN	300	0.825	0.648	2135	46	2854

NOTE : FLOWING BHP'S QUOTED AT MID-PERFORATION DEPTH

Table 2.2 DST Results, Fluid Properties

DST No. 1 35/11-4 (2676.7-2684.2 mRKB YATZY)

Bottle No. : TS 24-19 (oil)
A-14666 (gas)

Analyzed by: GECO-PRAKLA

Reservoir pressure	:	3933 psia
Reservoir temperature	:	218.5 F
Density sep. liq. (15 C)	:	821.8 kg/m3
Separator gas gravity	:	0.722 (air=1)
GOR during DST	:	960 SCF/STB
GOR used for recombination	:	862 SCF/BBL sep. oil
Separator pressure	:	362.5 psia
Separator temperature	:	95 F
Bubble point	:	3603.2 psia

WELLSTREAM COMPOSITION

	mol %
Nitrogen	0.85
Carbon dioxide	1.26
Methane	45.63
Ethane	8.02
Propane	6.38
iso-Butane	1.21
n-Butane	3.07
iso-Pentane	1.19
n-Pentane	1.50
Hexanes	2.00
Heptanes	3.35
Octanes	3.66
Nonanes	2.02
Decanes plus	19.86
Total	100.00

Table 2.25 DST 1. Results of PVT and Composition Analysis

DST No. 2B 35/11-4 (2286.1-2293.1 mRKB YATZY)

Bottle No. : TS 38-03 (oil)
A-14608 (gas)

Analyzed by: GECO-PRAKLA

Reservoir pressure	:	3353 psia
Reservoir temperature	:	198.0 F
Density sep. liq. (15 C)	:	844.6 kg/m3
Separator gas gravity	:	0.655 (air=1)
GOR during DST	:	581 SCF/STB
GOR used for recombination	:	543 SCF/BBL sep. oil
Separator pressure	:	362.5 psia
Separator temperature	:	86 F
Bubble point	:	3320.5 psia

WELLSTREAM COMPOSITION

	mol %
Nitrogen	0.16
Carbon dioxide	0.79
Methane	45.08
Ethane	4.67
Propane	3.74
iso-Butane	0.60
n-Butane	1.91
iso-Pentane	0.74
n-Pentane	1.11
Hexanes	1.65
Heptanes	3.49
Octanes	4.22
Nonanes	2.64
Decanes plus	29.20
Total	100.00

Table 2.26 DST 2B Results of PVT and Composition Analysis

DST No. 3 35/11-4 (2034.0-2046.0 mRKB YATZY)

Bottle No. : TS 40-11 (oil)
A-15249 (gas)

Analyzed by: GECO-PRAKLA

Reservoir pressure	:	2984 psia
Reservoir temperature	:	183.6 F
Density sep. liq. (15 C)	:	845.1 kg/m3
Separator gas gravity	:	0.670 (air=1)
GOR during DST	:	581 SCF/STB
GOR used for recombination	:	498 SCF/BBL sep. oil
Separator pressure	:	275.5 psia
Separator temperature	:	102.2 F
Bubble point	:	2936.2 psia

WELLSTREAM COMPOSITION

	mol %
Nitrogen	0.09
Carbon dioxide	1.31
Methane	41.79
Ethane	4.53
Propane	3.63
iso-Butane	0.64
n-Butane	1.98
iso-Pentane	0.82
n-Pentane	1.18
Hexanes	1.79
Heptanes	3.80
Octanes	4.59
Nonanes	2.92
Decanes plus	30.93
Total	100.00

Table 2.27 DST 3 Results of PVT and Composition Analysis

DST No. 4B 35/11-4 (2000.0-2003.0 mRKB YATZY)

Bottle No. : TS-35-12 (oil)
A-17152 (gas)

Analyzed by: GECO-PRAKLA

Reservoir pressure	:	2929 psia
Reservoir temperature	:	181.6 F
Density sep. liq. (15 C)	:	827.4 kg/m3
Separator gas gravity	:	0.648 (air=1)
GOR during DST	:	10200 SCF/STB (*)
GOR used for recombination	:	475.1SCF/BBL sep. oil
Separator pressure	:	522 psia
Separator temperature	:	98.6 F
Bubble point	:	2834.8 psia

WELLSTREAM COMPOSITION

	mol %
Nitrogen	0.16
Carbon dioxide	1.42
Methane	41.32
Ethane	3.61
Propane	3.51
iso-Butane	0.78
n-Butane	2.60
iso-Pentane	1.20
n-Pentane	1.81
Hexanes	2.76
Heptanes	5.27
Octanes	5.75
Nonanes	3.00
Decanes plus	26.81
Total	100.00

(*) measurement after the flow was directed through the test separator. No measurement was done before free gas from the gas cap started to flow.

Table 2.28 DST 4B Results of PVT and Composition Analysis

U-642 .3

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Geochemical Report for

Oils from Well NOCS 35/11-4

Author: Kjell Arne Bakken

Geolab Nor A/S
Hornebergveien 5
7038 Trondheim
Norway

Date : 04.03.92

Chapter 1

INTRODUCTION

Four oils from well NOCS 35/11-4 were analyzed on behalf of Mobil Exploration Norway by authorization of Jim Gormly, the samples being supplied by Mobil.The well is located in the Norwegian sector of the North Sea and is situated north-west of the Troll gas field.

The report is divided into chapters according to the various analytical methods used. Within the chapters the results are mainly discussed in a (descending) stratigraphic context.

The four oil samples are DST-1 (2674.5 - 2682 m), DST-2 (2284.3 - 2291.3 m), DST-3 (2034 - 2046 m) and DST-4b (2000 - 2003 m). In the tables the samples are simply referred to by their DST number (1, 2, 3 and 4).

1.1 General Comments

The well NOCS 35/11-4 was previously analysed by Geolab Nor and a report "Geochemical Report for Well NOCS 35/11-4" was issued 15.05.91 (authors Bakken et al). References are made to this report. The reader is also referred to this report for the location map and stratigraphical data. This report also contains the data with which that of the four analysed oils in this report are compared. No data is duplicated in this report.

1.2 Analytical Program

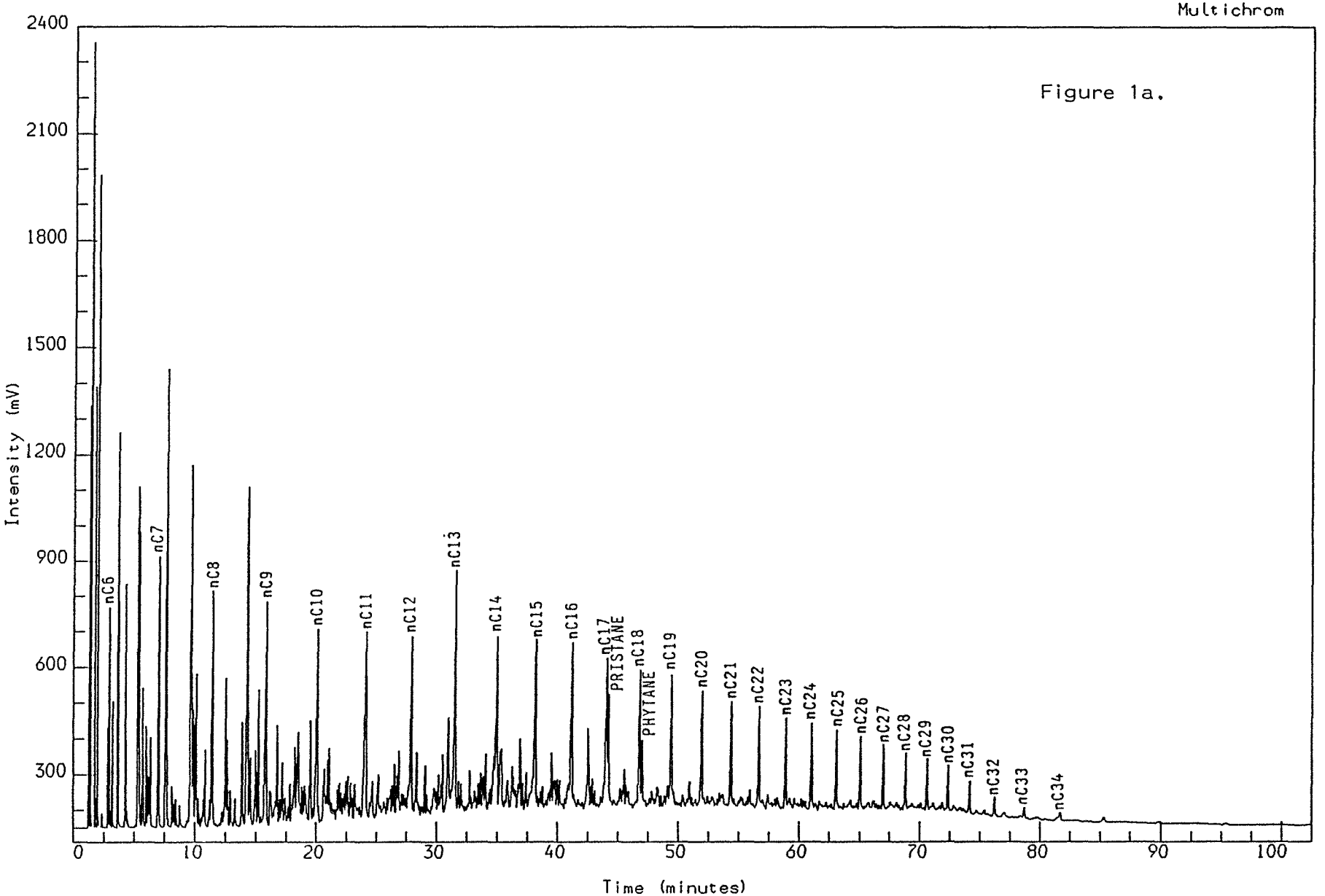
In accordance with Jim Gormly the following analytical program was executed for the four oils from well NOCS 35/11-4:

Analysis type	No of samples	Figures	Tables
MPLC separation	4		1b-c
Whole oil GC	4	1a-b	1a
Saturated hydrocarbon GC	4	2a-b	2
Aromatic hydrocarbon GC	4	3a-b	3
Isotope composition C_{15}+ fractions	4	4a-b	4a-b
GC - MS of saturated and aromatic HC	4	5a-f	5a-i
GC - MS cross-plots		6a-e	

Analysis Name : [526200] 9 W0351142,1,1.

Multichrom

Figure 1a.



WELL 35/11-4 DST.2
WHOLE OIL GC (FID)

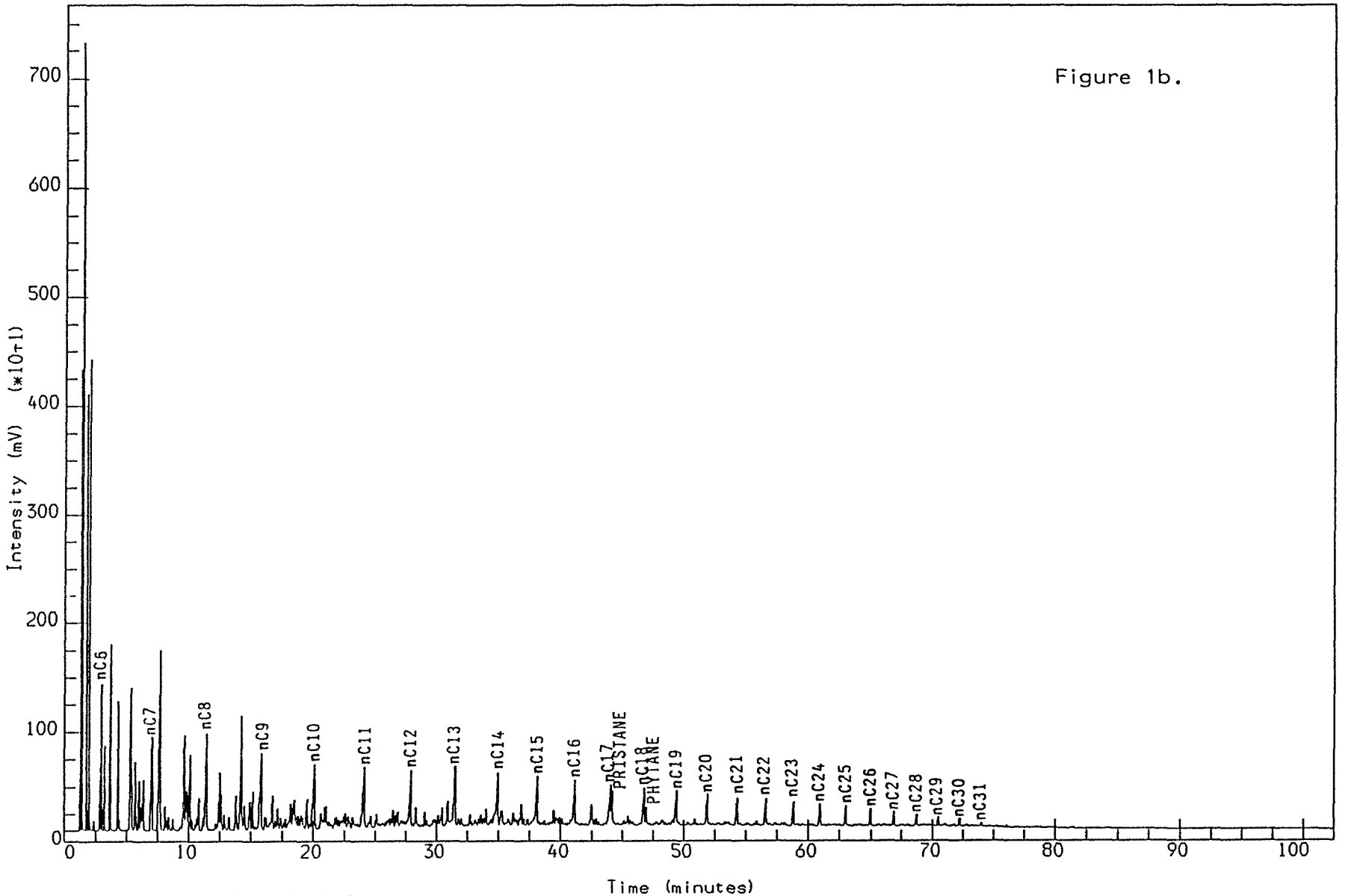
Reported on 5-FEB-1992 at 08:33

GEOLAB NOR

Analysis Name : [526200] 9 W0351141,1,1.

Multichrom

Figure 1b.



WELL 35/11-4 DST.1
WHOLE OIL GC (FID)

Reported on 4-FEB-1992 at 14:00

GEOLAB NOR

Analysis Name : [526200] 11 SA35114DST2,1,1.

Multichrom

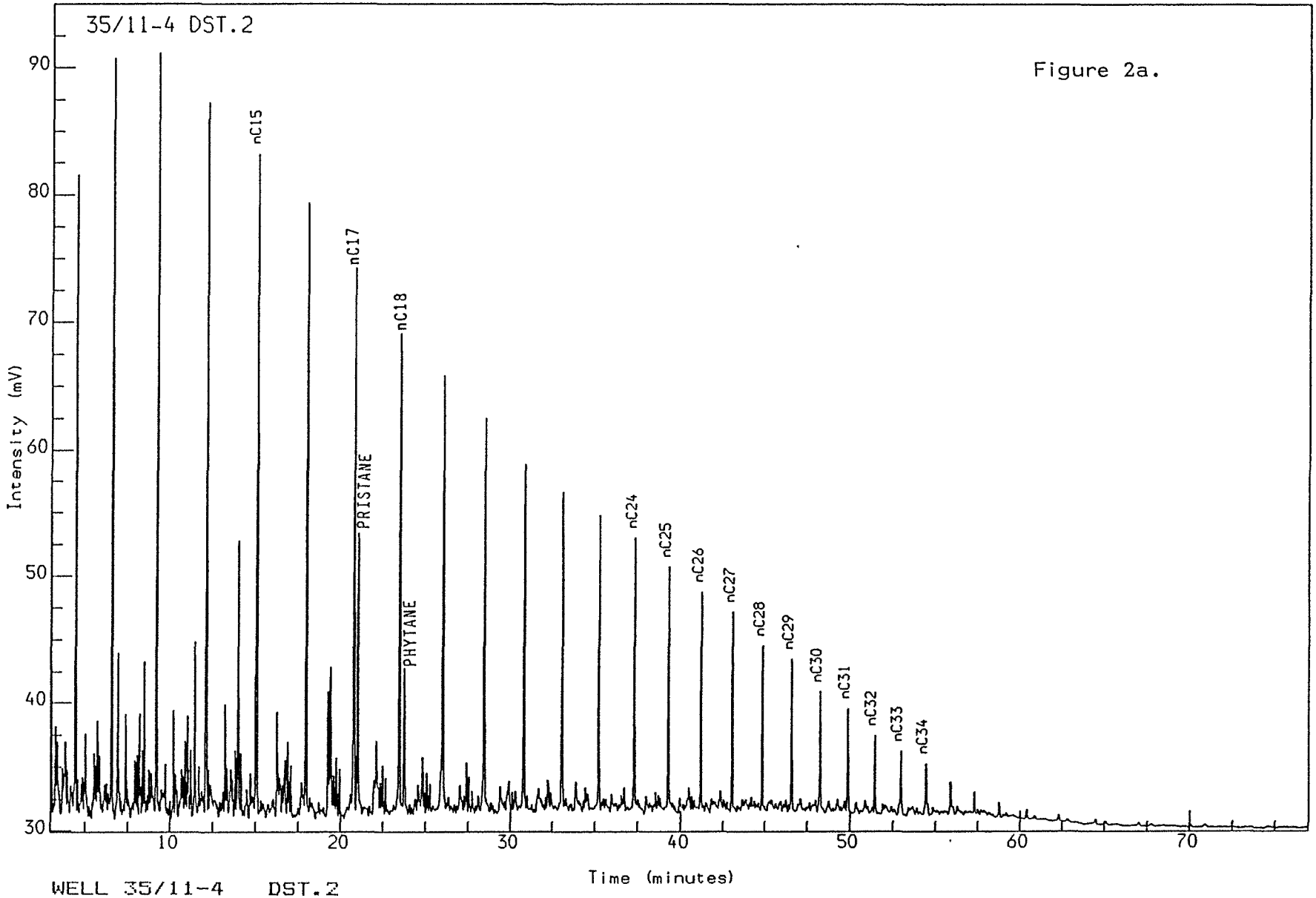


Figure 2a.

WELL 35/11-4 DST.2
SATURATED GC

Reported on 3-FEB-1992 at 15:47

GEOLAB NOR

Analysis Name : [526200] 11 SA35114DST1,1,1.

Multichrom

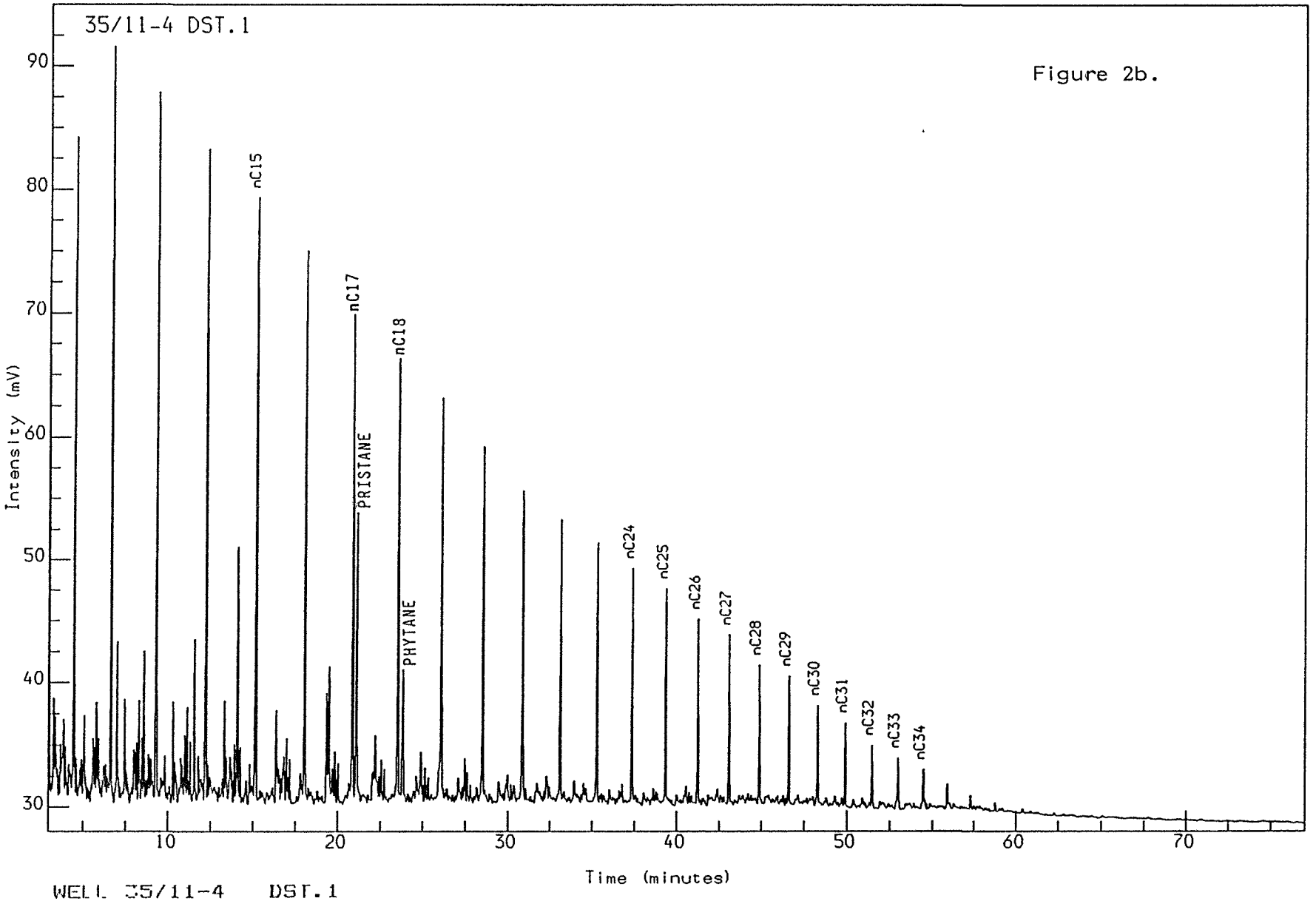


Figure 2b.

WELL 35/11-4 DST.1
SATURATED GC

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GEOLAB NOR

Analysis Name : [526200] 29 AG3600010B,4,1.

Multichrom

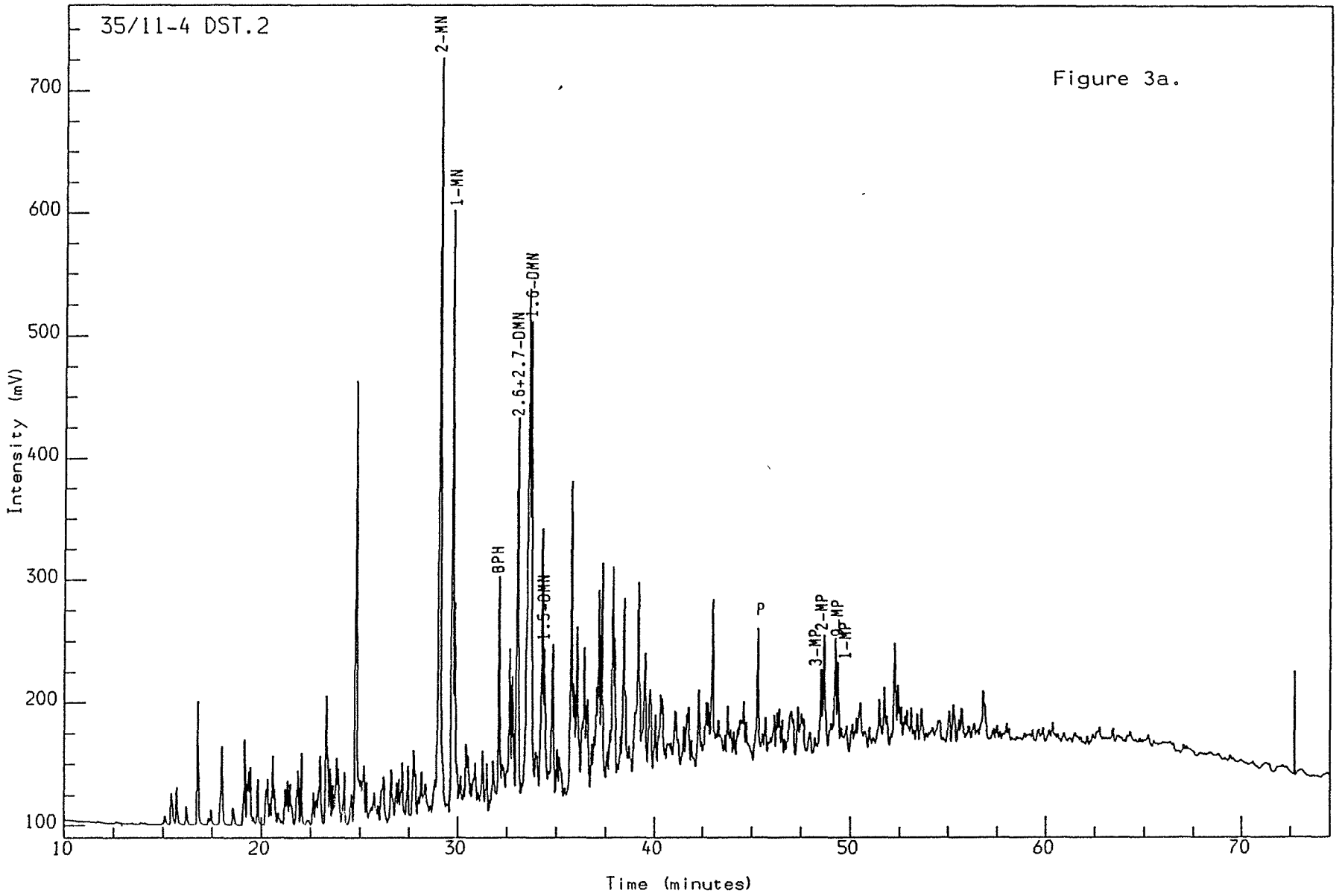


Figure 3a.

WELL 35/11-4 DST.2
AROMATIC GC (FID)

Reported on 4-FEB-1992 at 09:32

GEOLAB NOR

Analysis Name : [526200] 29 AG3600010B,3,1.

Multichrom

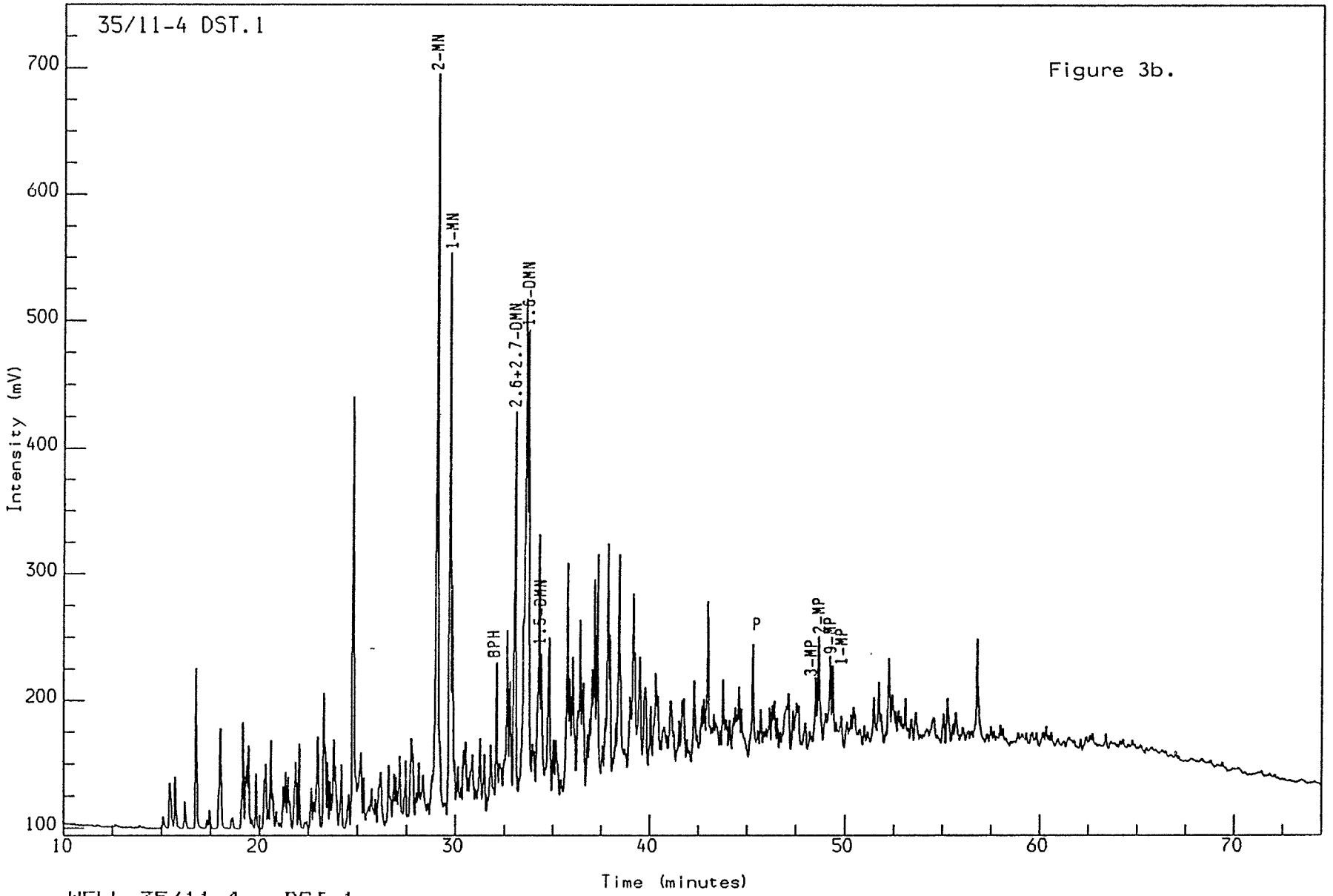


Figure 3b.

WELL 35/11-4 DST.1
AROMATIC GC (FID)

Reported on 4-FEB-1992 at 09:24

GEOLAB NOR

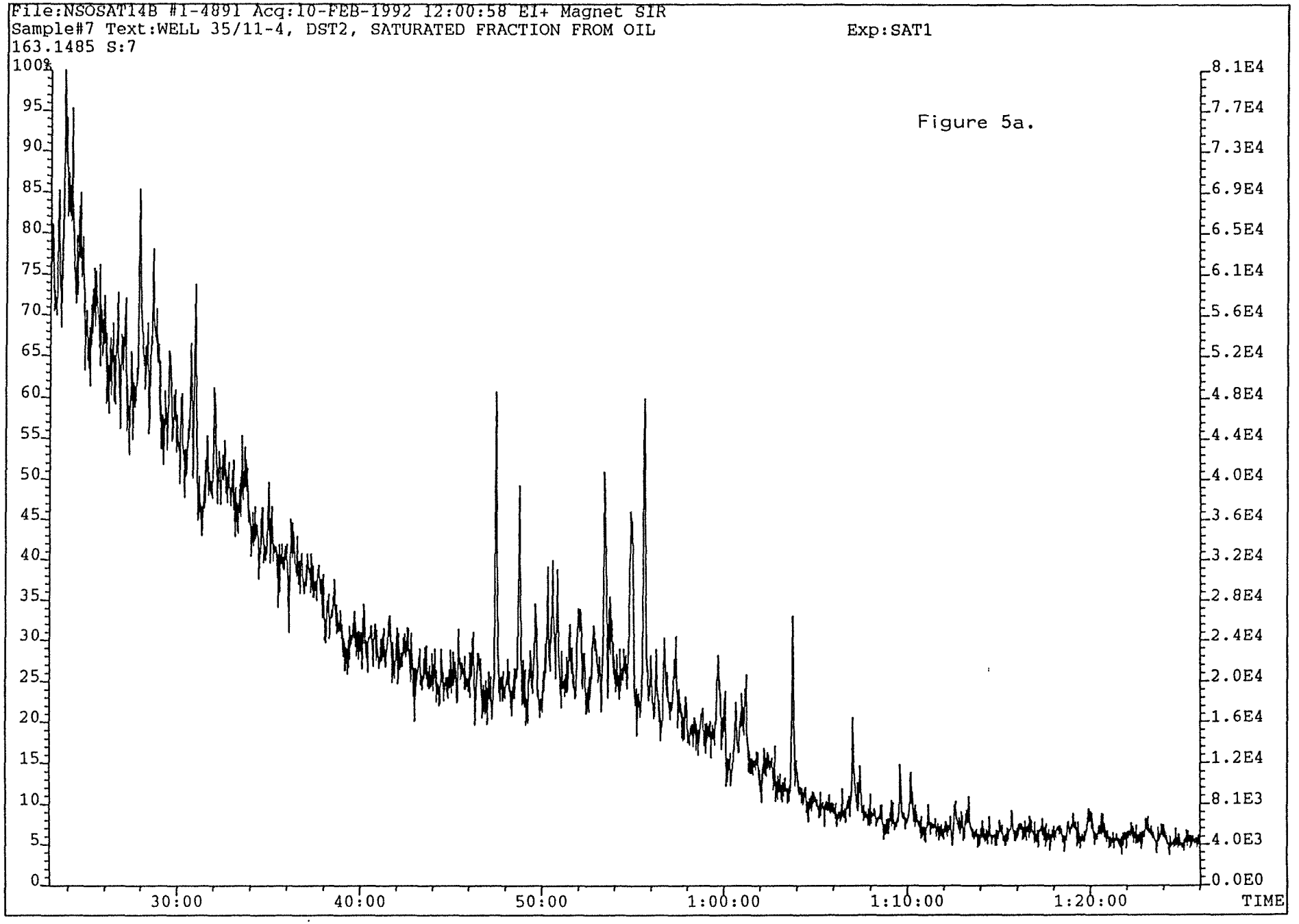


Figure 5a.

GEOLAB NOR

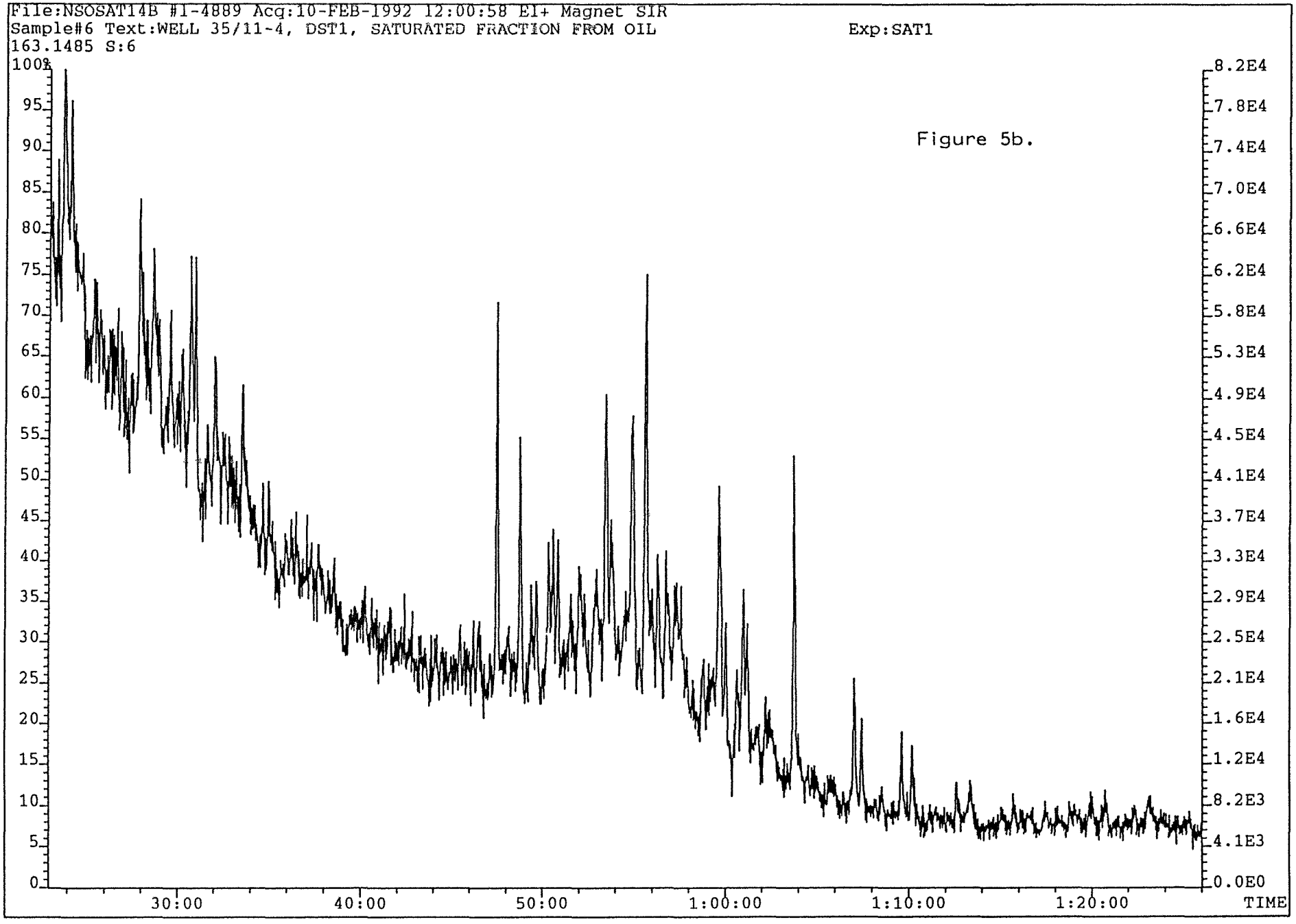
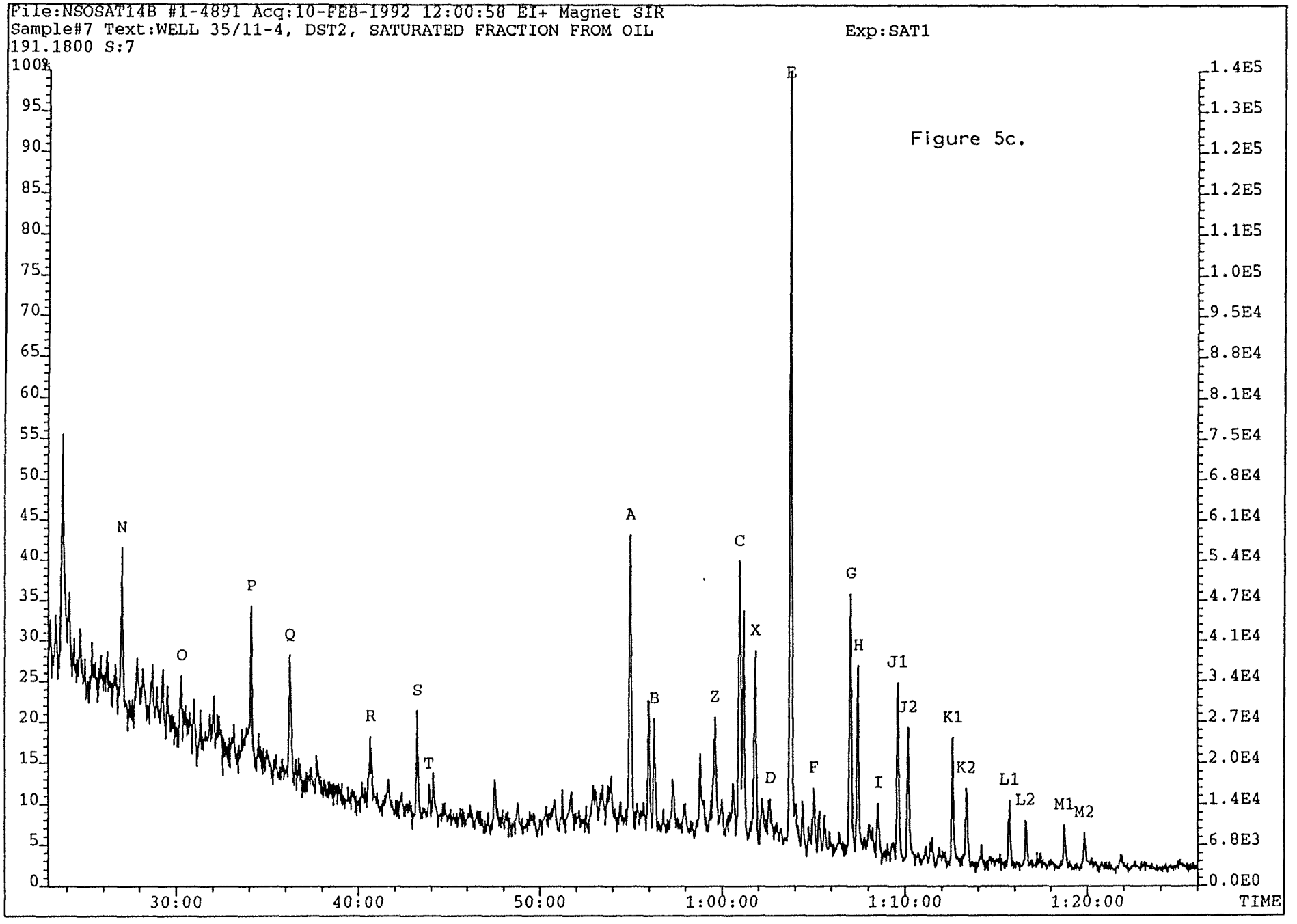


Figure 5b.

GEOLAB NOR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Sample#7 Text:WELL 35/11-4, DST2, SATURATED FRACTION FROM OIL
Exp:SAT1
191.1800 S:7
Figure 5c.
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
1.4E5
1.3E5
1.2E5
1.2E5
1.1E5
1.0E5
9.5E4
8.8E4
8.1E4
7.5E4
6.8E4
6.1E4
5.4E4
4.7E4
4.1E4
3.4E4
2.7E4
2.0E4
1.4E4
6.8E3
0.0E0
30:00
40:00
50:00
1:00:00
1:10:00
1:20:00
TIME
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Q
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S
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Z
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H
I
J1
J2
K1
K2
L1
L2
M1
M2

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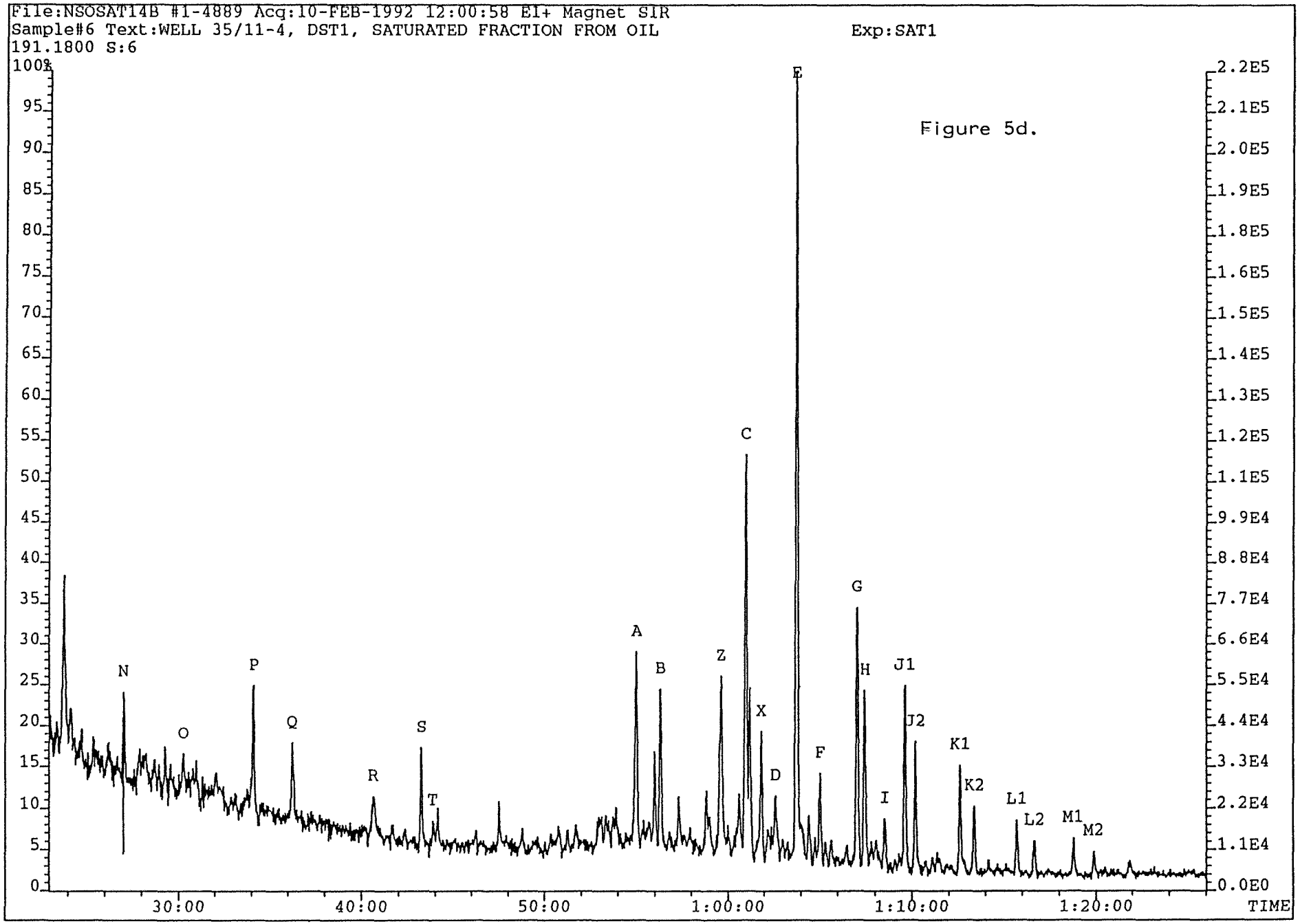
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Exp:SAT1
191.1800 S:6
Figure 5d.
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
2.2E5
2.1E5
2.0E5
1.9E5
1.8E5
1.6E5
1.5E5
1.4E5
1.3E5
1.2E5
1.1E5
9.9E4
8.8E4
7.7E4
6.6E4
5.5E4
4.4E4
3.3E4
2.2E4
1.1E4
0.0E0
N
O
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S
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A
B
Z
C
X
D
E
F
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H
I
J1
J2
K1
K2
L1
L2
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M2
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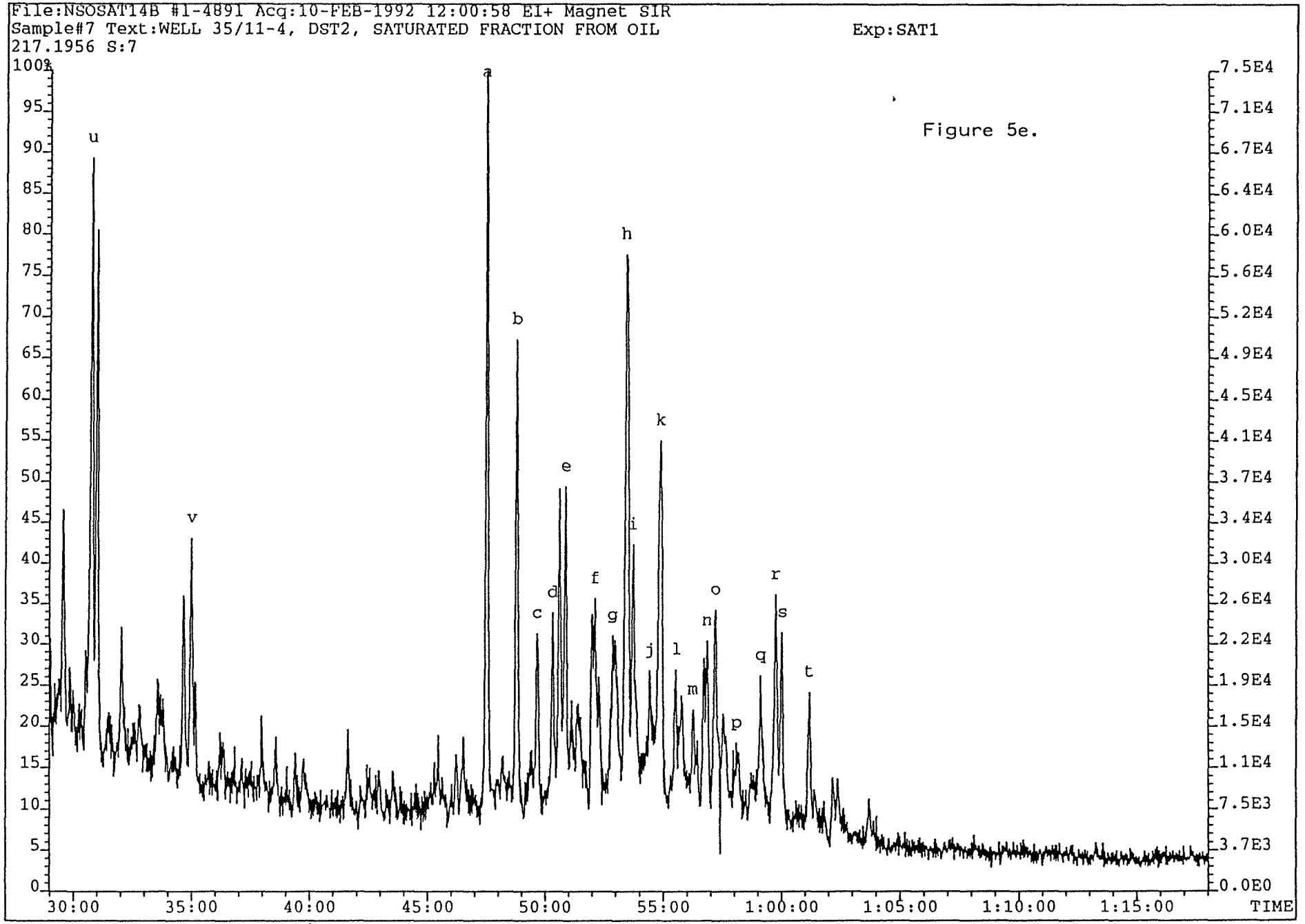
50:00
1:00:00
1:10:00
1:20:00
TIME

GEOLAB NOR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Exp:SAT1
217.1956 S:7
Figure 5e.
TIME
30:00
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55:00
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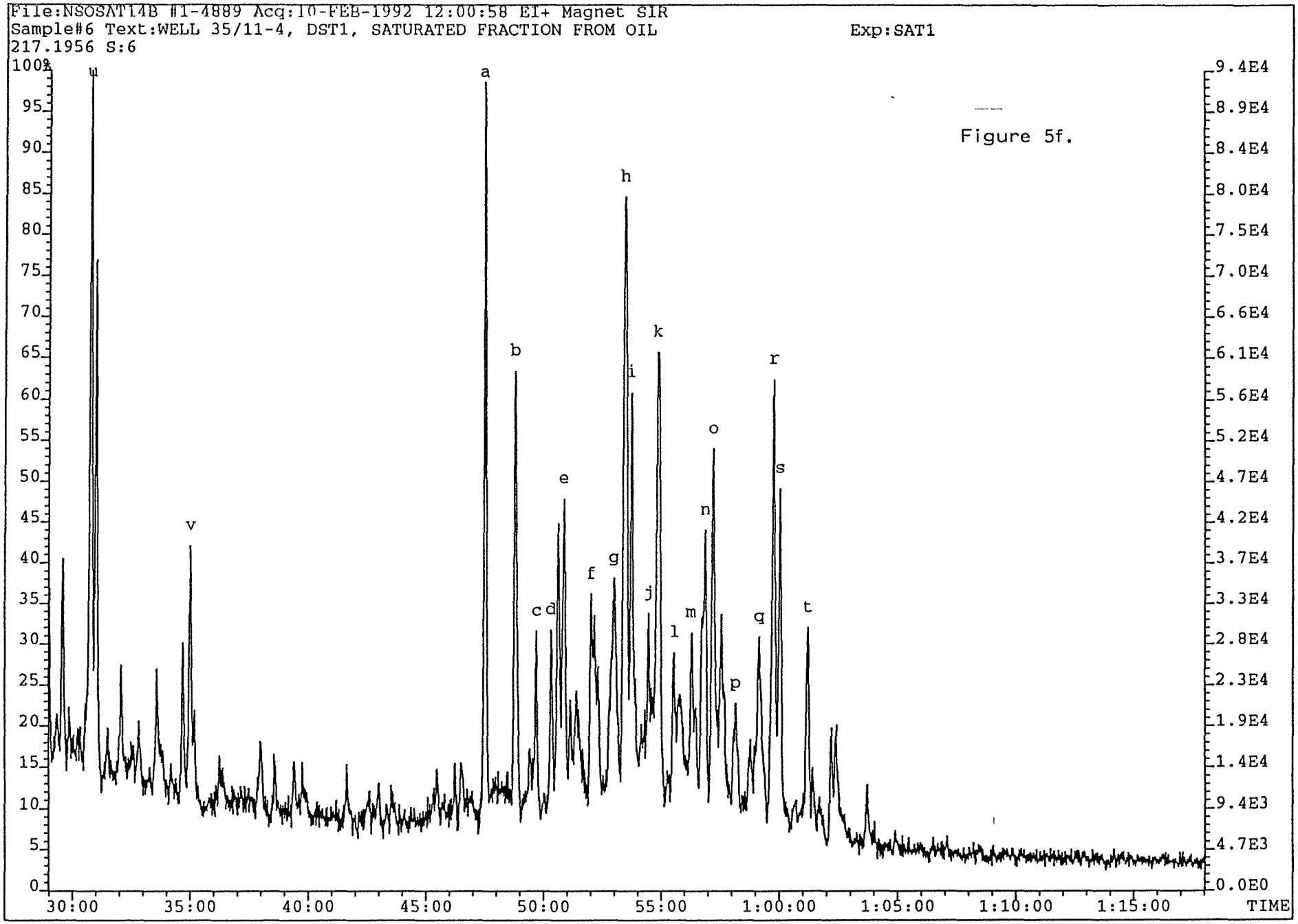
1:15:00

GEOLAB NOR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Exp:SAT1
217.1956 S:6
Figure 5f.
TIME
30:00
35:00
40:00
45:00
50:00
55:00
1:00:00
1:05:00
1:10:00
1:15:00

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Appendix 1

Tables

Table 1 a: Quantification of C1 - C7 compounds.

		1,3 cis-dimethyl cyclopentane	1,3 trans-dimethyl-cyclopentane	1,2 trans-dimethyl-cyclopentane	n-heptane	methylcyclohexane	toluene	2-methylheptane	3-methylheptane + 1(cis), 2(trans) 3 methylcyclopentane	n-octane
35/11-4	DST 1	0.88	0.80	1.67	6.19	12.19	5.70	2.49	2.17	3.78
35/11-4	DST 2	0.77	0.72	1.52	6.29	12.38	11.30	2.51	2.32	6.72
35/11-4	DST 3	0.78	0.72	1.52	6.22	11.98	10.70	2.29	2.43	6.57
35/11-4	DST 4B	0.80	0.73	1.52	6.74	11.58	9.98	2.20	2.24	6.33

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Table 1 a: Quantification of C1 - C7 compounds.

1

		Unknown	isobutane	n-butane	isopentane	n-pentane	2,3-dimethylbutane cyclopentane	2-methylpentane	3-methylpentane	n-hexane	methylcyclo-pentane	benzene	cyclohexane	2-methylhexane	3-methylhexane
35/11-4	DST 1	3.21	1.88	6.40	4.70	6.61	1.28	3.26	1.96	6.11	3.91	6.65	1.55	2.82	1.98
35/11-4	DST 2	2.15	1.11	4.63	3.23	5.26	1.17	2.59	1.62	5.61	3.66	7.38	3.75	2.73	1.93
35/11-4	DST 3	2.43	1.19	4.73	3.34	5.33	1.18	2.63	1.65	5.62	3.63	7.23	3.78	2.78	1.95
35/11-4	DST 4B	1.58	0.98	4.26	3.52	5.82	1.24	3.05	1.87	6.47	3.77	7.65	3.30	3.03	2.13

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

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
1.00	oil	bulk	-	63.3	47.7	12.5	1.1	2.0	60.2	3.1	-	0001-0B
2.00	oil	bulk	-	59.2	40.8	14.0	1.5	2.9	54.8	4.4	-	0002-0B
3.00	oil	bulk	-	61.3	43.8	13.7	0.8	3.0	57.5	3.8	-	0003-0B
4.00	oil	bulk	-	60.3	41.7	12.8	1.1	4.7	54.5	5.8	-	0004-0B

Table 1 c: Composition of material extracted from the rock (%) for well 35/11-4 OILS

Depth unit of measure: m

Depth	Typ	Lithology	Sat / EOM	Aro / EOM	Asph / EOM	NSO / EOM	HC / EOM	Non-HC / EOM	Sat / Aro	HC / Non-HC	Sample
1.00	oil	bulk	75.36	19.75	1.74	3.16	95.10	4.90	381.60	1941.94	0001-0B
2.00	oil	bulk	68.92	23.65	2.53	4.90	92.57	7.43	291.43	1245.45	0002-0B
3.00	oil	bulk	71.45	22.35	1.31	4.89	93.80	6.20	319.71	1513.16	0003-0B
4.00	oil	bulk	69.15	21.23	1.82	7.79	90.38	9.62	325.78	939.66	0004-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	Pristane / nC17	Pristane / Phytane	Pristane + Phytane / nC17 + nC18	Phytane / nC18	CPI	Sample
1.00	oil	bulk	0.60	2.22	0.45	0.30	1.06	0001-0B
2.00	oil	bulk	0.51	1.94	0.41	0.30	1.06	0002-0B
3.00	oil	bulk	0.49	1.97	0.40	0.29	1.06	0003-0B
4.00	oil	bulk	0.51	2.06	0.41	0.28	1.06	0004-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
1.00	oil	bulk	1.32	2.93	0.31	1.37	0.97	1.19	0.98	-	-	-	0001-0B
2.00	oil	bulk	1.25	2.73	0.49	1.31	0.91	1.06	0.95	-	11.78	2.45	0002-0B
3.00	oil	bulk	1.27	2.83	0.46	1.25	0.90	1.06	0.94	-	10.31	1.98	0003-0B
4.00	oil	bulk	1.25	2.61	0.47	1.22	0.89	1.04	0.93	-	10.25	1.96	0004-0B

Table 4a : Tabulation of carbon isotope data for EOM/EOM - fractions or Oils for well 35/11-4 OILS

Depth unit of measure: m

Depth	Typ	Lithology	EOM/Oil	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
1.00	oil		-27.35	-27.80	-26.64	-26.23	-27.28	-	0001-0
2.00	oil		-27.72	-28.36	-27.27	-26.67	-27.86	-	0002-0
3.00	oil		-27.69	-28.34	-26.98	-26.65	-27.58	-	0003-0
4.00	oil		-27.51	-28.22	-27.02	-26.70	-27.53	-	0004-0

Table 4b : Tabulation of cv values from carbon isotope data for well 35/11-4 OILS

Depth unit of measure: m

Depth	Typ	Lithology		Saturated	Aromatic	cv value	Sample
1.00	oil			-27.80	-26.64	-0.46	0001-0
2.00	oil			-28.36	-27.27	-0.44	0002-0
3.00	oil			-28.34	-26.98	0.15	0003-0
4.00	oil			-28.22	-27.02	-0.24	0004-0

Table 5A: Variation in Triterpane Distribution (peak height) SIR for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B / B+E+F	C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D / C+D+E+F	D+F/C+E	J1 / J1+J2%	Sample
1.00	bulk	0.82	0.45	0.15	0.51	0.34	0.16	0.21	0.41	0.17	0.10	0.91	0.34	0.12	59.07	0001-0
2.00	bulk	0.38	0.28	0.12	0.35	0.26	0.24	0.14	0.39	0.12	0.16	0.93	0.27	0.09	56.69	0002-0
3.00	bulk	0.37	0.27	0.11	0.38	0.28	0.26	0.14	0.37	0.12	0.17	0.92	0.28	0.10	61.02	0003-0
4.00	bulk	0.32	0.24	0.11	0.42	0.29	0.27	0.15	0.36	0.13	0.16	0.93	0.30	0.08	62.73	0004-0

Table 5B: Variation in Sterane Distribution (peak height) SIR for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
1.00	bulk	0.83	45.89	81.12	1.08	0.82	0.46	0.33	0.68	0.85	3.97	0001-0
2.00	bulk	0.89	50.18	75.97	1.32	0.76	0.56	0.42	0.61	1.01	3.17	0002-0
3.00	bulk	0.89	50.79	79.34	1.47	0.79	0.56	0.43	0.66	1.03	3.90	0003-0
4.00	bulk	0.86	49.07	77.21	1.34	0.78	0.58	0.43	0.63	0.96	3.33	0004-0

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

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Table 5C: Variation in Triaromatic Sterane Distribution for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
1.00	bulk	0.78	0.77	0.59	0.55	0.70	0001-0
2.00	bulk	0.78	0.72	0.54	0.55	0.68	0002-0
3.00	bulk	0.77	0.74	0.55	0.54	0.67	0003-0
4.00	bulk	0.76	0.74	0.53	0.51	0.64	0004-0

Ratio1: a1 / a1 + g1
Ratio2: b1 / b1 + g1
Ratio3: a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1
Ratio4: a1 / a1 + e1 + f1 + g1
Ratio5: a1 / a1 + d1

Table 5D: Variation in Monoaromatic Sterane Distribution for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Sample
1.00	bulk	0.67	0.54	0.48	0.43	0001-0
2.00	bulk	0.58	0.52	0.43	0.40	0002-0
3.00	bulk	0.60	0.50	0.44	0.39	0003-0
4.00	bulk	0.62	0.52	0.45	0.40	0004-0

Ratio1: A1 / A1 + E1
Ratio2: B1 / B1 + E1
Ratio3: A1 / A1 + E1 + G1
Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

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Table 5E: Aromatisation of Steranes for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Sample
1.00	bulk	0.55	0.86	0001-0
2.00	bulk	0.49	0.90	0002-0
3.00	bulk	0.50	0.92	0003-0
4.00	bulk	0.49	0.88	0004-0

Ratio1: $\frac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$

Ratio2: g1 / g1 + I1

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Table 5F: Raw GCMS triterpane data (peak height) SIR for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
1.00	bulk	33459.8	20127.4	9448.7	27294.2	7526.4	50574.7	41242.3	43521.7	105505.2	0001-0
		32450.3	15473.8	208893.1	21792.3	66618.0	44915.0	12846.9	46455.0		
		32191.9	28805.9	17535.0	14377.4	8885.4	9278.5	6089.4			
2.00	bulk	25080.3	20884.3	10278.8	17112.0	4892.0	47706.3	18203.2	17343.8	44833.6	0002-0
		30375.1	5624.5	127167.3	10092.6	42280.5	28893.1	7109.3	27414.4		
		20941.8	19976.8	11546.6	10807.2	7077.3	6195.8	4722.5			
3.00	bulk	26646.8	20659.7	7461.6	16988.0	5017.0	44232.4	16434.9	17282.6	46263.3	0003-0
		31348.0	5361.0	121617.6	10624.0	48840.3	27879.6	8646.4	29901.4		
		19101.4	16630.8	10479.2	7505.4	7123.0	6339.6	4374.6			
4.00	bulk	26495.9	16266.7	8994.3	16540.0	4124.0	41818.8	13219.7	15647.8	43159.9	0004-0
		27854.0	4069.6	103928.9	7596.2	34057.3	25075.6	4723.2	26618.8		
		15817.8	14214.9	10717.8	6270.0	4423.2	3917.5	3616.0			

Table 5G: Raw GCMS sterane data (peak height) SIR for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
1.00	bulk	80930.80	29369.80	83797.40	50177.40	21428.90	19307.50	32994.50	22852.00	23570.70	0001-0
		66477.20	43896.20	16949.30	48996.60	16127.10	17151.20	29840.20	39305.10		
		11820.00	19194.60	50981.20	38842.30	22629.00					
2.00	bulk	54820.90	22100.30	66948.30	42415.60	14887.30	16335.00	26290.40	17104.10	14108.80	0002-0
		48333.60	21552.50	8167.30	31714.80	11289.60	7855.30	14784.20	17672.20		
		5306.40	11849.60	20416.90	16912.50	11762.30					
3.00	bulk	56639.40	19756.00	68605.90	41710.90	15976.00	15616.70	33619.60	14152.00	11998.40	0003-0
		43708.40	20563.60	8361.40	30716.00	9421.10	8890.60	12982.40	19354.60		
		4649.90	10472.30	21487.80	18100.60	10146.20					
4.00	bulk	48551.80	16679.70	58988.10	39140.90	11616.30	16517.20	22851.00	15831.20	14630.30	0004-0
		38581.10	17623.10	9405.80	30069.10	10126.00	6423.20	15305.00	15997.90		
		5181.50	8559.30	15330.60	14211.40	8884.70					

Table 5H: Raw GCMS trioaromatic sterane data (peak height) for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
1.00	bulk	479544.41	444465.31	46142.00	209382.30	167400.00	87445.00	132443.41	0001-0
2.00	bulk	635441.50	460800.00	101878.90	300776.31	203776.00	141393.91	182705.70	0002-0
3.00	bulk	527044.38	461661.41	82736.00	255680.00	180815.30	118725.60	158387.59	0003-0
4.00	bulk	471005.50	424112.00	88411.00	269528.00	178152.00	117427.50	152358.20	0004-0

Table 5I: Raw GCMS monoaromatic sterane data (peak height) for Well 35/11-4 OILS

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
1.00	bulk	371328.00	216522.80	106496.00	77930.60	186866.91	54598.60	212698.09	112959.00	21368.00	0001-0
2.00	bulk	336365.81	258494.00	152256.00	113033.40	239820.00	53736.00	208728.00	116888.40	19811.10	0002-0
3.00	bulk	307818.19	201251.50	131509.30	99383.50	201994.41	53501.90	196928.00	98292.50	14604.80	0003-0
4.00	bulk	302842.69	199312.00	134504.50	95812.70	187583.70	46334.80	187661.30	96805.10	20187.80	0004-0