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Geochemical Report for Well NOCS 6506/11-3

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Chapter 1

INTRODUCTION

The well 6506/11-3, analysed on behalf of Statoil, is located in the Haltenbanken area and situated east of the Smørbukk condensate field. The well was drilled to a total depth of 4350 m in the Middle Jurassic Fangst Group (Not Fm.). All depths given are relative to KB unless otherwise specified. In the depth interval 3361 - 3717 m the well was turbo drilled, which may have influenced the reliability of the geochemical data obtained on the cuttings samples from this section.

Both screening and follow-up analyses were performed. Samples for analyses were selected in agreement with Statoil on a continuous basis. The well was analysed from 1250 - 4230 m (range of samples supplied to Geolab Nor). The samples analysed comprised 19 cuttings samples, 29 conventional cores, 5 side-wall cores and 1 fluid sample. All analyses were conducted by Geolab Nor, except the vitrinite reflectance and API gravity measurements, which were performed by Institutt for Energiteknikk (IFE) and GECO Petroleum Laboratory respectively. The report is divided into chapters according to the various analytical methods used. Within the chapters the results are mainly discussed in a stratigraphic context.

1.1 General Comments

The cuttings samples were supplied unwashed in bags. The samples were washed, described and picked before analyses commenced. The conventional cores were supplied as core-chips which were analysed after cleansing of any superficial contamination. The side-wall cores were cleansed of drill mud before analyses. The

reservoir fluid, which consists mainly of water with a petroleum film on top was, prior to analysis, separated by into one aquatic and one hydrocarbon phase.

1.2 Analytical Program

In accordance with the contract, sample availability and the screening analyses results, the following analytical programme was executed for Well NOCS 6506/11-3 in the section 1250 - 4230 m:

<u>Analysis type</u>		<u>No of samples</u>	<u>Figures</u>	<u>Tables</u>
Lithology description		55	1	1
TOC	35	1	1,2	
Rock-Eval pyrolysis		56	2,3,4	2
Thermal Extraction GC (GHM, S ₁)		3	5a-b	
Pyrolysis GC (GHM, S ₂)		12	6a-c,7a-b	3
API Gravity		1		
Soxhlet Extraction of organic matter		21		
TLC-FID (Iatroscan) analysis		21	8a-c	4
MPLC separation		21		5
Whole Oil/EOM GC		9	9a-d	
Saturated hydrocarbon GC		21	10a-d	6
Aromatic hydrocarbon GC		21	11a-f	7
Vitrinite reflectance		Performed by IFE	12	
Visual kerogen microscopy		12	13a-b	8,9
Isotope composition C ₁₅ + fractions		21	14,15	10
GC - MS of saturated HC fraction		21	16a-w	11

Abbreviations

List of abbreviations used for lithology description

(sorted alphabetically)

ang	= angular
bar	= Baryte (mud additive)
bit	= bituminous
bl	= blue/blueish
blk	= black
br	= brittle
brn	= brown/brownish
Ca	= Carbonate (limestone/chalk/dolomite/siderite)
calc	= calcareous
carb	= carbonaceous
cem	= cement used as additive (under "cont") or to describe cemented S/Sst
Chert	= Chert
chk	= Chalk/chalky
cly	= clayey/shaly
cngl	= conglomeratic
Coal	= Coal
Coal-ad	= Coal-like additive (e.g. chromlignosulfonate)
Congl	= Conglomerat
Cont	= Contamination(s)
crs	= coarse grained
dd	= dried drilling mud
dol	= Dolomite/dolomitic
drk	= dark (colour)
dsk	= dusk/dusky (colour)
evap	= Salt/Gypsum/Halite (natural "Other" or as additive "Cont")
f	= fine grained
fe	= ferruginous
fib	= fibres (mud additive/contamination)
fis	= fissile
fos	= fossiliferous
glauc	= glauconite/glauconitic
gn	= green/greenish
gy	= grey/greyish
hd	= hard
ign	= Igneous (material derived from igneous source)
Kaolin	= Kaolin(ite)
kln	= kaolinitic
l	= loose
lam	= laminated/laminae
lt	= light (colour)
m	= medium (colour or grain size)
Marl	= Marl (calcareous claystone/mudstone)
mic	= micaceous

Mica-ad	= Mica used as mud additive
mrl	= marly
No Mat.	= No material left over after washing
ns	= nutshells (mud additive)
ol	= olive
ool	= Oolite/oolitic
or	= orange
Other	= Other lithology/mineral, specified after this word
pi	= pink/pinkish
pl	= pale (colour)
prp	= paint/rust/plastic contaminations/additives
pu	= purple
pyr	= Pyrite/pyritic
red	= red/reddish
rnd	= round/rounded
s	= sandy
sft	= soft
S/Sst	= Sand and/or sandstone
Sh/Clst	= Shale and/or claystone
sid	= Siderite/sideritic
sil	= siliceous/cherty
slt	= silty
Sltst	= siltstone
st	= stained (with natural oil or oil-like additive)
tar-ad	= Tar-like additive (e.g. "Black Magic")
trbfgs	= turbodrilled fragments
Tuff	= Tuff
tuff	= tuffaceous
v col	= various colours
w	= white
wx	= waxy
y	= yellow/yellowish

Experimental

Total Organic Carbon (TOC) and Total Carbon Analysis

This analysis is performed using a LECO CS244 Carbon Analyser.

Hand-picked lithologies from cuttings samples are crushed with a mortar and pestle and approximately 200 mg (50 mg for coals) are accurately weighed into LECO crucibles. The samples are then treated three times with 10 % hydrochloric acid to remove oxidized (carbonate) carbon, and washed four times with distilled water. The samples are dried on a hotplate at 60 - 70°C before analysis of total organic carbon. Total carbon is also analysed on the same instrument using approximately 200 mg of untreated crushed whole rock. Oxidized (carbonate) carbon is calculated by weight difference.

Total organic carbon can also be analysed on the Rock-Eval II Pyrolyser during the normal run of the instrument.

Rock-Eval Pyrolysis

This analysis is performed by using a Rock-Eval II Pyrolyser. Approximately 100 mg crushed whole rock is analysed. The sample is first heated at 300°C for three min in an atmosphere of helium to release the free hydrocarbons present (S1 peak) and then pyrolysed by increasing the temperature from 300°C to 600°C (temp. gradient 25°C/min) (S2 peak). Both the S1 and S2 yields are measured using a flame ionization detector (FID). In the temperature interval between 300°C and 390°C, the released gases are split and a proportion passed through a carbon dioxide trap, which is connected to a thermal conductivity detector (TCD). The value obtained from the TCD corresponds to the amount of oxygen contained in the kerogen of the sample and is reported as the S3 peak.

The Rock-Eval II Pyrolyser also analyses the TOC of each sample during the normal run of the instrument.

Thermal Extraction/Pyrolysis Gas Chromatography

The instrument used for this analysis is a Varian 3400 Gas Chromatograph interfaced to a pyrolysis oven (the pyrolyser). Up to 15 mg of whole rock sample is loaded on the pyrolyser and heated isothermally, at 300°C, for 4 min, during which time thermal extraction of the free hydrocarbons occurs (equivalent to the S1 peak of the Rock-Eval). The released gases pass to a 25 m OV1 column with a liquid nitrogen-cooled trap.

After 4 min the pyrolysis oven is temperature programmed up to 530°C, at a rate of 37°C/min, causing bound hydrocarbons to be released from the kerogen (equivalent to the S2 peak of the Rock-Eval). The released gases pass to a 25 m OV1 column with a liquid nitrogen-cooled trap.

The temperature program of the gas chromatograph oven, in which the columns are housed is -10°C to 290°C at a rate of 6°C/min.

Both the columns are linked to a FID.

Solvent Extraction of Organic Matter (EOM)

The samples are extracted using a Tecator Soxtec HT-System. Carefully weighed samples are taken in a pre-extracted thimble. Some activated copper is added to the extraction cup and dichloromethane/methanol (93/7) is used as an extraction solvent. The samples are boiled for 1 hour and then rinsed for 2 hours. If the samples contain more than 10 % TOC, then the whole procedure is repeated once. The resulting solution is filtered and the solvent removed by rotary evaporation (200 mb, 30°C). The amount of EOM is gravimetrically established.

Removal of Asphaltenes

The EOM is dissolved in tetrahydrofuran in a flask and n-pentane is added to

precipitate the asphaltenes. The solution is then stored in the dark and at ambient temperature for at least 8 hours. The solution is then filtered (Baker 10-spe system) and the precipitated asphaltenes returned to the original flask by dissolution in dichloromethane. The solvent is removed by rotary evaporation at 200 mB and 30°C.

Thin Layer Chromatography - FID (Iatroscan)

For quantification of the saturated hydrocarbons, aromatic hydrocarbons and polar fraction by TLC-FID (Iatroscan) are performed by applying 1 - 3 μ l of the deasphalted solution (oil or EOM) on Chromarod S-III rods. Separation of the saturated hydrocarbons, aromatic hydrocarbons and polar fraction are conducted by eluting the rods in n-hexane (25 mins.), toluene (14 mins.) and DCM/MeOH (4 mins.) respectively. Between each elution the rods are air dried for 2 - 3 mins., and after eluting in DCM/MeOH the rack of rods are put into an oven at 60°C for 90 sec. for removing of all solvents. The quantification of the separated fractions are performed by use of a Iatroscan MK-5 TLC/FID Analyser.

Chromatographic Separation of deasphalted EOM

Chromatographic separation is performed using an MPLC system developed by the company. The EOM (minus asphaltenes) is injected into the MPLC and separated using hexane as an eluent. The saturated and aromatic hydrocarbon fractions are collected and the solvent removed using a rotary evaporator at 30°C. The fractions are then transferred to small pre-weighed vials and evaporated to dryness in a stream of nitrogen. The vials are re-weighed to obtain the weights of both the saturated and the aromatic fractions. The weight of the NSO fraction which is retained on the column, is obtained by weight difference.

Gas Chromatographic Analyses

Saturated hydrocarbon fractions:

The instrument used for this analysis is a PERKIN ELMER 8320 Gas Chromatograph equipped with an FID detector and an OV1 column. The carrier gas is helium and the temperature program runs from 80°C to 300°C at a rate of 4°C/min. Final hold time is 20 mins. The saturated hydrocarbon fraction is diluted by 1:30 and a 1 microlitre aliquot of this is injected into the instrument.

Aromatic hydrocarbon fractions:

The instrument used is a Varian 3400 Gas Chromatograph with a 25 m SE 54 capillary column, split injector and a column splitter leading to FID and FPD detectors, which allows simultaneous analysis of co-eluting hydrocarbons and sulphur compounds. The carrier gas is helium and the temperature program runs from 40°C to 290°C at a rate of 4°C/min. Final hold time is 10 mins. The aromatic hydrocarbon fraction is diluted by 1:30 and a 1 microlitre aliquot of this is injected into the instrument.

Whole Oil/Whole Extract

Whole oil chromatograms are determined on a Perkin Elmer Sigma 2000 gas chromatograph fitted with a split injector, 25 m SE54 capillary column and effluent splitter connected to FID and FPD detectors allowing simultaneous determination of hydrocarbons and sulphur compounds. Approximately 0.1 microlitres of whole oil are injected and the temperature program on the chromatograph runs from -10°C to 300°C at 4°C/min.

Visual Kerogen Microscopy

Kerogen concentrates are obtained from samples prepared by HCl and HF digestion followed by zinc bromide flotation to remove pyrite and other heavy mineral residues. The cleaned concentrates are mounted on slides by smearing, these being analysed microscopically in transmitted white light and UV light (530 nm barrier filter) to determine the Spore Colour or Thermal Alteration Indices (SCI or TAI) and the colour and intensity of spore fluorescence. The spore colour index, backed by spore fluorescence, is used as an alternative maturity parameter to verify the results obtained from vitrinite reflectance.

Fluorescence Colour	Colour	Corresp. Vitrinite
	Index	Reflectance
Green	1	0.2 %
Green/yellow	2	0.2-0.3 %
Yellow	3	0.3 %
Yellow/orange	4	0.4 %
Light orange		50.5 %
Moderate-orange	6	0.6 %
Dark orange		70.8 %
Dark orange/red	8	1.0 %
Spore fluorescence extinction	9	1.3 %

NB. This table only provides a rudimentary correlation as vitrinite reflectance and spore fluorescence colour are both independently affected by factors such as depositional environment and catenetic history.

Combined Gas Chromatography - Mass Spectrometry (GC-MS)

The GC-MS analyses are performed on a VG TS250 system interfaced to a Hewlett Packard 5890 gas chromatograph. The GC is fitted with a fused silica SE54 capillary column (40 m x 0.22 mm i.d.) directly into the ion source. Helium (12 psi) is used as carrier gas and the injections are performed in splitless mode. The GC oven is programmed from 45°C to 150°C at 35°C/min, at which point the programme rate is 2°C/min up to 310°C where the column is held isothermally for 15 min. For the aromatic hydrocarbons, the GC oven is programmed from 50°C to 310°C at 5°C/min. and held isothermally at 310°C for 15 min. The mass spectrometer is operated in electron impact (EI) mode at 70 eV electron energy, a trap current of 500 uA and a source temperature of 220°C. The instrument resolution used is 2500 (10 % value).

The data system used is a VG PDP11/73 for acquiring data, and a Vax station 3100 for peak processing the data. The samples are analysed in multiple ion detection

mode (MID) at a scan cycle time of approximately 1.1 sec.

Calculation of peak ratios is performed from peak heights in the appropriate mass fragmentograms.

Saturated Fractions

Terpanes

The most commonly used fragment ions for detection of terpanes are M/Z 163 for detection of 25,28,30 trisnormoretane or 25,28,30 trisnorhopane, M/Z 177 for detection of demethylated hopanes or moretanes, M/Z 191 for detection of tricyclic, tetracyclic- and pentacyclic terpanes and M/Z 205 for methylated hopanes or moretanes. The molecular ions M/Z 370 and 384 are also recorded for identification of C₂₇ and C₂₈ triterpanes respectively.

Steranes

The most commonly used fragment ions for detection of steranes are M/Z 149 to distinguish between 5 α and 5 β steranes, M/Z 189 and 259 for detection of rearranged steranes, M/Z 217 for detection of rearranged and normal steranes and M/Z 218 for detection of 14 β (H) 17 β (H) steranes.

The M/Z 231 fragment ion is used to detect possible aromatic contamination of the saturated fraction. It is also used for detection of methyl steranes.

Aromatic Fractions

Alkyl-substituted Benzenes

The M/Z 106 fragment ion is often used to detect the alkyl-substituted benzenes. It is especially useful for the detection of di-substituted benzenes. M/Z 134 can also be used for the detection of C₄-alkylbenzenes, but benzothiophene will also give a signal with this fragment ion.

Naphthalenes

Methyl naphthalenes are normally detected by the M/Z 142 fragment ion, while C₂-naphthalenes are detected by M/Z 156 and C₃-naphthalenes by M/Z 170.

Benzothiophenes and Dibenzothiophenes

Benzothiophene can be detected, as mentioned above, by M/Z 134. The M/Z 184 fragment ion is used to detect the dibenzothiophenes. The M/Z 198 and M/Z 212 fragment ions are used for methyl-substituted dibenzothiophenes and dimethyl-substituted dibenzothiophenes respectively.

Phenanthrenes

Phenanthrene is detected using the M/Z 178 fragment ion. Anthracene will, if present, also give a signal in the M/Z 178 fragment ion. Methyl-substituted phenanthrenes give signals in the M/Z 192 fragment ion, while the M/Z 206 fragment ion shows the dimethyl-substituted phenanthrenes and the M/Z 220 fragment ion shows the C₃ substituted phenanthrenes.

Aromatic Steranes

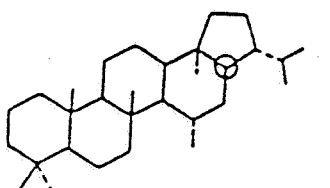
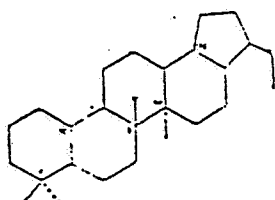
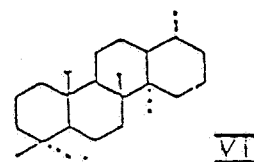
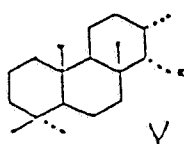
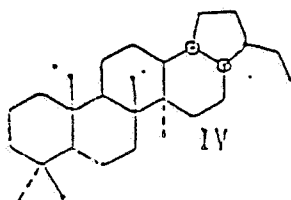
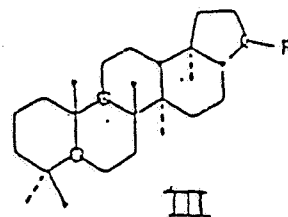
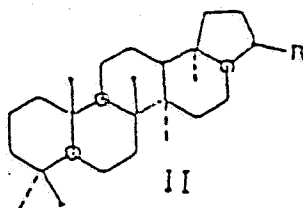
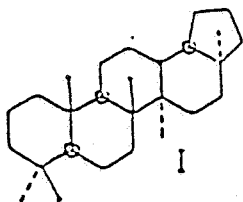
Monoaromatic steranes are detected using the M/Z 253 fragment ion, while the triaromatic steranes are detected using the M/Z 231 fragment ion.

Mass Fragmentograms representing Terpanes
(M/Z 163, 177, 191, 205, 370, 384, 398, 412 and 426)

Peak Identification: (α and β refer to hydrogen atoms at C-17 and C-21 respectively unless indicated otherwise)

A.	18 α trisnorneohopane (T_s)	$C_{27}H_{44}$	(I)
B.	17 α trisnorhopane (T_m)	$C_{27}H_{46}$	(II, R=H)
Z.	Bisnorhopane	$C_{28}H_{48}$	(IV)
C.	$\alpha\beta$ norhopane	$C_{29}H_{50}$	(II, R= C_2H_5)
D.	$\beta\alpha$ norhopane	$C_{29}H_{50}$	(III, R= C_2H_5)
E.	$\alpha\beta$ hopane	$C_{30}H_{52}$	(II, R=i- C_3H_7)
F.	$\beta\alpha$ hopane	$C_{30}H_{52}$	(III, R=i- C_3H_7)
G.	22S $\alpha\beta$ homohopane	$C_{31}H_{54}$	(II, R=i- C_4H_9)
H.	22R $\alpha\beta$ homohopane	$C_{31}H_{54}$	(II, R=i- C_4H_9)
I.	$\beta\alpha$ homohopane	$C_{31}H_{54}$	(III, R=i- C_4H_9)
J.	22S $\alpha\beta$ bishomohopane	$C_{32}H_{56}$	(II, R=i- C_5H_{11})
	22R $\alpha\beta$ bishomohopane	$C_{32}H_{56}$	(II, R=i- C_5H_{11})
K.	22S $\alpha\beta$ trishomohopane	$C_{33}H_{58}$	(II, R=i- C_6H_{13})
	22R $\alpha\beta$ trishomohopane	$C_{33}H_{58}$	(II, R=i- C_6H_{13})
L.	22S $\alpha\beta$ tetrakishomohopane	$C_{34}H_{60}$	(II, R=i- C_7H_{15})
	22E $\alpha\beta$ tetrakishomohopane	$C_{34}H_{60}$	(II, R=i- C_7H_{15})
M.	22S $\alpha\beta$ pentakishomohopane	$C_{35}H_{62}$	(II, E=i- C_8H_{17})
	22E $\alpha\beta$ pentakishomohopane	$C_{35}H_{62}$	(II, R=i- C_8H_{17})
P.	Tricyclic terpane	$C_{23}H_{42}$	(V, R=i- C_4H_9)
Q.	Tricyclic terpane	$C_{24}H_{44}$	(V, R=i- C_5H_{11})
R.	Tricyclic terpane (17R, 17S)	$C_{25}H_{66}$	(V, R=i- C_6H_{13})
S.	Tetracyclic terpane	$C_{24}H_{42}$	(VI)
T.	Tricyclic terpane (17R, 17S)	$C_{26}H_{48}$	(V, R=i- C_7H_{15})
N.	Tricyclic terpane	$C_{21}H_{38}$	(V, R= C_2H_5)
O.	Tricyclic terpane	$C_{22}H_{40}$	(V, R= C_3H_7)
Y.	25,28,30-trisnorhopane/moretane	$C_{27}H_{46}$	(VII)
X.	$\alpha\beta$ diahopane	$C_{30}H_{52}$	(VIII)

STRUCTURES REPRESENTING TERPANES



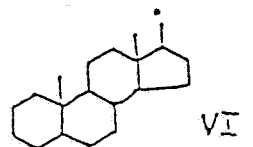
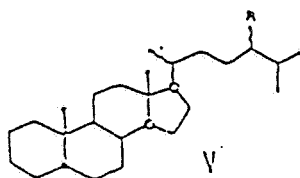
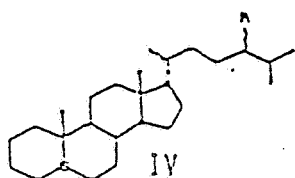
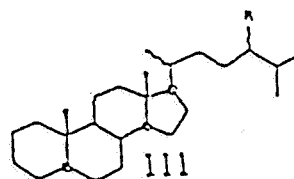
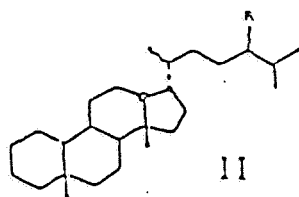
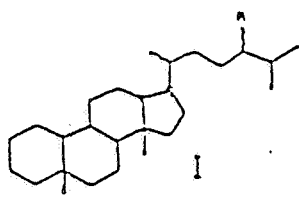
Mass Fragmentograms representing Steranes

(M/Z 149, 189, 217, 218, 259, 372, 386, 400 and 414)

Peak Identifications: α and β refer to hydrogen atoms at C-5, C-14 and C-17 in regular steranes and at C-13 and C-17 in diasteranes).

a.	20S $\beta\alpha$ diacholestane	$C_{27}H_{48}$	(I, R=H)
b.	20R $\beta\alpha$ diacholestane	$C_{27}H_{48}$	(I, R=H)
c.	20S $\alpha\beta$ diacholestane	$C_{27}H_{48}$	(II, R=H)
d.	20R $\alpha\beta$ diacholestane	$C_{27}H_{48}$	(II, R=H)
e.	20S $\beta\alpha$ 24-methyl-diacholestane	$C_{28}H_{50}$	(I, R=CH ₃)
f.	20R $\beta\alpha$ 24-methyl-diacholestane	$C_{28}H_{50}$	(I, R=CH ₃)
g.	20S $\alpha\beta$ 24-methyl-diacholestane	$C_{28}H_{50}$	(II, R=CH ₃)
	+ 20S $\alpha\alpha\alpha$ cholestane	$C_{27}H_{48}$	(III, R=H)
h.	20S $\beta\alpha$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C ₂ H ₅)
	+ 20R $\alpha\beta\beta$ cholestane	$C_{27}H_{48}$	(IV, R=H)
i.	20S $\alpha\beta\beta$ cholestane	$C_{27}H_{48}$	(IV, R=H)
	+ 20R $\alpha\beta$ 24-methyl-diacholestane	$C_{28}H_{50}$	(II, R=CH ₃)
j.	20R $\alpha\alpha\alpha$ cholestane	$C_{27}H_{48}$	(III, R=H)
k.	20R $\beta\alpha$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(I, R=C ₂ H ₅)
l.	20R $\alpha\beta$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C ₂ H ₅)
m.	20S $\alpha\alpha\alpha$ 24-methyl-cholestane	$C_{28}H_{50}$	(III, R=CH ₃)
n.	20R $\alpha\beta\beta$ 24-methyl-cholestane	$C_{28}H_{50}$	(IV, R=CH ₃)
	+ 20R $\alpha\beta$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C ₂ H ₅)
o.	20S $\alpha\beta\beta$ 24-methyl-cholestane	$C_{28}H_{50}$	(IV, R=CH ₃)
p.	20R $\alpha\alpha\alpha$ 24-methyl-cholestane	$C_{28}H_{50}$	(III, R=CH ₃)
q.	20S $\alpha\alpha\alpha$ 24-ethyl-cholestane	$C_{29}H_{52}$	(III, R=C ₂ H ₅)
r.	20R $\alpha\beta\beta$ 24-ethyl-cholestane	$C_{29}H_{52}$	(IV, R=C ₂ H ₅)
s.	20S $\alpha\beta\beta$ 24-ethyl-cholestane	$C_{29}H_{52}$	(IV, R=C ₂ H ₅)
t.	20R $\alpha\alpha\alpha$ 24-ethyl-cholestane	$C_{29}H_{52}$	(III, R=C ₂ H ₅)
u.	5 α sterane	$C_{21}H_{36}$	(VI, R=C ₂ H ₅)
v.	5 α sterane	$C_{22}H_{38}$	(VI, R=C ₃ H ₇)

STRUCTURES REPRESENTING STERANES

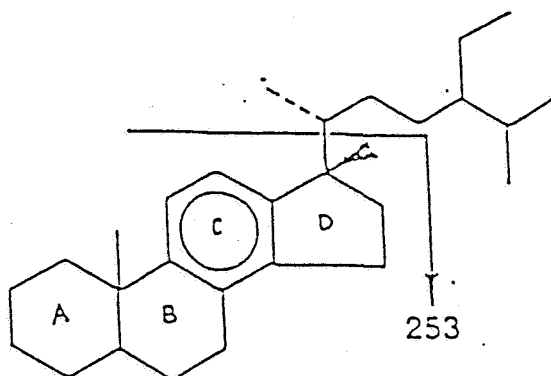


Mass Fragmentograms representing Monoaromatic Steranes (M/Z 253)

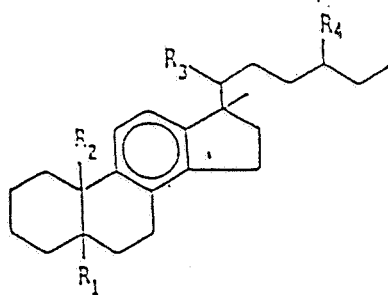
Description of C-ring monoaromatic steroid hydrocarbons

Peak	R ₁	Substituents		R ₄	Abbreviation of Compound
		R ₂	R ₃		
A1					C ₂₁ M
B1					C ₂₂ MA
C1	β(H)	CH ₃	S(CH ₃)	H	βSC ₂₇ MA
	β(H)	CH ₃	R(CH ₃)	H	βRC ₂₇ MA
D1	CH ₃	H	R(CH ₃)	H	RC ₂₇ DMA
	α(H)	CH ₃	S(CH ₃)	H	αSC ₂₇ MA
E1	β(H)	CH ₃	S(CH ₃)	CH ₃	βSC ₂₈ MA
	CH ₃	H	S(CH ₃)	CH ₃	SC ₂₈ DMA
F1	α(H)	CH ₃	R(CH ₃)	H	αRC ₂₇ MA
	α(H)	CH ₃	S(CH ₃)	CH ₃	αSC ₂₈ MA
	β(H)	CH ₃	R(CH ₃)	CH ₃	βRC ₂₈ MA
G1	CH ₃	H	R(CH ₃)	CH ₃	RC ₂₈ DMA
	β(H)	CH ₃	S(CH ₃)	C ₂ H ₅	βSC ₂₉ MA
	CH ₃	H	S(CH ₃)	C ₂ H ₅	SC ₂₉ DMA
	α(H)	CH ₃	R(CH ₃)	CH ₃	αRC ₂₈ MA
H1	β(H)	CH ₃	R(CH ₃)	C ₂ H ₅	βRC ₂₉ MA
	CH ₃	H	R(CH ₃)	C ₂ H ₅	RC ₂₉ DMA
I1	α(H)	CH ₃	R(CH ₃)	C ₂ H ₅	αRC ₂₉ MA

STRUCTURES REPRESENTING MONOAROMATIC STERANES



I

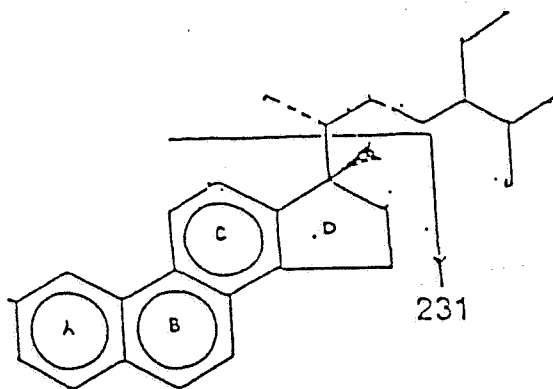


Mass Fragmentograms representing Triaromatic Steranes
(M/Z 231)

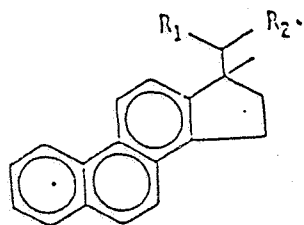
Description of ABC-ring triaromatic steroid hydrocarbons

Peak	Substituents		Abbreviation of Compound
	R ₁	R ₂	
a1	CH ₃	H	C ₂₀ TA
b1	CH ₃	CH ₃	C ₂₁ TA
c1	S(CH ₃)	C ₆ H ₁₋₃	SC ₂₆ TA
d1	R(CH ₃)	C ₆ H ₁₃	RC ₂₆ TA
	S(CH ₃)	C ₇ H ₁₅	SC ₂₇ TA
e1	S(CH ₃)	C ₈ H ₁₇	SC ₂₈ TA
f1	S(CH ₃)	C ₇ H ₁₅	RC ₂₇ TA
g1	R(CH ₃)	C ₈ H ₁₇	RC ₂₈ TA

STRUCTURES REPRESENTING TRIAROMATIC STERANES



II



Stable Carbon Isotope Ratio Mass Spectrometry

Carbon isotope analysis is performed on a dual inlet VG SIRA 10 instrument. The combustion of the samples is performed by a Carlo Erba EA 1108 element analyser directly connected to the inlet system of the mass spectrometer.

The combustion temperature is 1020°C and the carrier gas used was Helium. After the combustion H₂O and CO₂ are trapped in individual cool traps. The CO₂ gas is then heated up before admission into the mass spectrometer. The whole operation is controlled by an IBM PC50 computer system.

δ-values

The isotope ratios are given as δ-values in ‰ versus the PDB-standard:

$$\delta^{13}\text{C} = (R_{\text{sample}} - R_{\text{standard}}/R_{\text{standard}}) \times 1000$$
$$R = {}^{13}\text{C}/{}^{12}\text{C}$$

The PDB-standard (a marine chalk of the Pee Dee-formation, USA) was created by Craig 1957. All results of ¹³C/¹²C-analysis of organic matter today are calculated (Craig correction) against this international standard.

Reproducibility

The precision of the combustion system and the mass spectrometer is controlled by determination of an international calibrated standard, NBS22 oil and a house standard carbon. Replicate analyses are also performed on samples.

Appendix 1

Tables

- 1 -

Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
1250.00						0001
		60	S/Sst	: gy w, f, crs, l		0001-2L
		35	Sltst	: lt gy, calc		0001-1L
		5	Other	: m gy to drk gy, crs, ign		0001-3L
		tr	Ca	: w to lt or w, fos		0001-4L
2170.00						0002
		85	Sh/Clst:	lt gy to ol gy, pyr		0002-1L
		15	Ca	: lt or gy to lt gy		0002-2L
		tr	Other	: m gy to drk gy, crs, ign		0002-3L
		tr	Cont	: prp		0002-4L
2183.00 swc						0022
		100	Sh/Clst:	drk gy		0022-1L
2220.00						0003
		95	Sh/Clst:	lt gy to m gy, pyr		0003-1L
		5	Cont	: prp, dd		0003-4L
		tr	Ca	: lt or gy to lt gy		0003-2L
		tr	Other	: m gy to drk gy, crs, ign		0003-3L
2310.00						0004
		95	Sh/Clst:	lt gy to m gy, pyr		0004-1L
		5	Cont	: prp, dd		0004-3L
		tr	Ca	: lt or gy to lt gy		0004-2L
		tr	Other	: gn to dsk y gn, glauc		0004-4L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2780.00						0005
				70 Sh/Clst: m gy		0005-1L
				30 Sltst : lt gy, glauc		0005-3L
				tr Cont : prp		0005-2L
				tr Ca : lt or w		0005-4L
2920.00						0006
				50 Sh/Clst: m gy		0006-1L
				45 Sltst : lt gy, glauc		0006-3L
				5 Cont : prp		0006-2L
				tr Ca : lt or w to or gy		0006-4L
2970.00						0007
				60 Sltst : lt gy, glauc		0007-3L
				35 Sh/Clst: m gy to brn gy		0007-1L
				5 Cont : prp, cem		0007-2L
				tr Ca : lt or w to or gy		0007-4L
3080.00						0008
				85 Sh/Clst: m gy to brn gy		0008-1L
				15 Sltst : lt gy, glauc		0008-3L
				tr Cont : prp		0008-2L
				tr Ca : lt or gy to lt gy		0008-4L
3126.00 swc						0023
				100 S/Sst : w to lt gy w, f, slt, glauc		0023-1L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3138.50	swc					0024
		100	S/Sst	: w to lt gy w, f, slt, glauc		0024-1L
3147.61	ccp					0025
		100	Sh/Clst:	m gy		0025-1L
3148.54	ccp					0026
		100	S/Sst	: gy w, f, crs, hd, glauc		0026-1L
3158.26	ccp					0027
		100	Sh/Clst:	m gy		0027-1L
3166.71	ccp					0028
		100	Sh/Clst:	m gy		0028-1L
3169.99	ccp					0029
		100	S/Sst	: gy w to lt gy, f, crs, hd, mic, glauc		0029-1L
3250.00						0009
		70	Sh/Clst:	m gy to drk gy		0009-1L
		30	Slst	: lt gy, s		0009-3L
		tr	Cont	: prp		0009-2L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3420.00						0010
				85 Sh/Clst: m gy to drk gy		0010-1L
				10 Sltst : lt gy, s		0010-3L
				5 Cont : prp, dd		0010-2L
				tr Ca : lt or gy, fos		0010-4L
3500.00						0011
				50 Sh/Clst: m gy to drk gy		0011-1L
				40 Other : drk gy, trbofgs		0011-5L
				5 Cont : prp, cem		0011-2L
				5 Sltst : lt gy, s		0011-3L
				tr Ca : lt or gy, fos		0011-4L
3700.00						0012
				70 Other : drk gy, trbofgs		0012-2L
				30 Sh/Clst: m gy to drk gy		0012-1L
				tr Cont : prp		0012-3L
3840.00						0013
				70 Sh/Clst: m gy to drk gy		0013-1L
				15 Marl : ol gy to pl y brn		0013-3L
				10 Cont : prp		0013-2L
				5 Sltst : lt gy		0013-4L
3921.45 ccp						0030
				100 Sh/Clst: m gy to drk gy, mic		0030-1L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3924.70	ccp					0031
		100	Sltst	: y gy to lt brn gy to drk y brn, mic, s, calc, hd		0031-1L
3927.55	ccp					0032
		100	Sh/Clst:	m gy to drk gy		0032-1L
3933.97	ccp					0033
		100	Sh/Clst:	m gy to drk gy		0033-1L
3937.20	ccp					0034
		100	S/Sst	: y gy to lt brn gy, f, crs, mic, hd		0034-1L
3938.11	ccp					0035
		100	Sltst	: lt gy to lt brn gy, hd		0035-1L
3938.46	ccp					0036
		100	Sh/Clst:	m gy to drk gy		0036-1L
3944.73	ccp					0037
		100	Sh/Clst:	m gy to drk gy		0037-1L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3952.00						0014
				80 Sh/Clst: m gy to drk gy		0014-1L
				10 Cont : prp		0014-2L
				10 Sltst : lt gy to ol gy		0014-3L
3976.66	ccp					0038
				100 Sltst : lt gy w to lt gy, calc, hd		0038-1L
3976.84	ccp					0039
				100 Sh/Clst: m gy to drk gy, mic		0039-1L
3980.25	ccp					0040
				100 Sltst : lt gy to m gy, mic, cly, calc		0040-1L
3983.80	ccp					0041
				100 Sltst : lt gy to m gy, mic, calc, lam		0041-1L
3984.39	ccp					0042
				100 Sh/Clst: m gy to drk gy, mic		0042-1L
3984.59	ccp					0043
				100 Sltst : lt gy, mic, calc, hd		0043-1L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3986.50	ccp					0044
		100	Sh/Clst:	drk gy		0044-1L
3990.95	ccp					0045
		100	Sh/Clst:	drk gy		0045-1L
3993.57	ccp					0046
		100	Sh/Clst:	m gy to drk gy		0046-1L
3999.63	ccp					0047
		100	Sh/Clst:	drk gy		0047-1L
4080.00						0015
		75	Sh/Clst:	m gy to drk gy		0015-1L
		25	Cont	: bar, prp		0015-2L
		tr	Slst	: lt gy to ol gy		0015-3L
4150.00						0016
		70	Sh/Clst:	m gy to drk gy to dsk y brn		0016-1L
		20	Cont	: prp		0016-2L
		10	Sh/Clst:	pl brn		0016-3L
4152.00	swc					0048
		100	Sh/Clst:	brn blk		0048-1L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
4168.50	swc					0049
		100	Sh/Clst: dsk y brn to brn blk			0049-1L
4170.00						0017
		35	Sh/Clst: dsk y brn to brn blk			0017-1L
		35	Sh/Clst: m gy to drk gy, fis			0017-2L
		20	Ca : lt or w			0017-3L
		10	Sh/Clst: brn to gy brn, calc			0017-4L
		tr	Cont : prp			0017-5L
4173.44	ccp					0050
		100	S/Sst : lt gy w to m gy to lt brn gy, f, crs, hd			0050-1L
4184.67	ccp					0051
		100	Sltst : lt gy w to lt gy, hd			0051-1L
4198.21	ccp					0052
		100	S/Sst : lt brn gy to pl y brn, f, hd			0052-1L
4206.49	ccp					0053
		100	S/Sst : lt brn gy to brn gy, f, crs, hd			0053-1L
4214.40	ccp					0054
		100	S/Sst : lt brn gy to pl y brn, crs, hd			0054-1L

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Table 1 : Lithology description for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4222.22	ccp					0055
			100	S/Sst : lt brn gy to pl y brn, f, crs, hd		0055-1L
4233.00						0018
			40	Sh/Clst: m gy to drk gy, fis		0018-1L
			35	S/Sst : lt gy w to gy w, f, crs, l		0018-5L
			20	Sh/Clst: brn to gy brn, calc		0018-3L
			5	Cont : prp		0018-4L
			tr	Ca : lt or w		0018-2L
4254.00						0019
			100	S/Sst : lt gy w, f, crs, l		0019-1L
			tr	Sh/Clst: m gy to drk gy		0019-2L
			tr	Sh/Clst: brn to gy brn, calc		0019-3L
			tr	Cont : prp		0019-4L
4272.00						0020
			100	S/Sst : lt gy w, f, crs, l		0020-1L
			tr	Sh/Clst: m gy to drk gy		0020-2L
			tr	Cont : prp		0020-3L
4293.00						0021
			100	S/Sst : lt gy w, f, crs, l		0021-1L
			tr	Sh/Clst: m gy to drk gy		0021-2L
			tr	Sh/Clst: brn to gy brn, calc		0021-3L
			tr	Cont : prp		0021-4L

Table 2 : Rock-Eval table for well NOCS 6506/11-3

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1250.00	cut	Sltst : lt gy	0.10	0.56	0.80	0.70	0.57	98	140	0.7	0.15	424	0001-1L
2170.00	cut	Sh/Clst: lt gy to ol gy	0.03	0.24	1.06	0.23	0.52	46	204	0.3	0.11	402	0002-1L
2183.00	swc	Sh/Clst: drk gy	0.05	0.44	0.50	0.88	0.84	52	60	0.5	0.10	362	0022-1L
2220.00	cut	Sh/Clst: lt gy to m gy	0.02	0.13	0.74	0.18	0.52	25	142	0.1	0.13	417	0003-1L
2310.00	cut	Sh/Clst: lt gy to m gy	0.04	0.33	0.86	0.38	0.68	49	126	0.4	0.11	383	0004-1L
2780.00	cut	Sh/Clst: m gy	0.04	0.49	0.45	1.09	0.95	52	47	0.5	0.08	424	0005-1L
2920.00	cut	Sh/Clst: m gy	0.03	0.49	0.45	1.09	0.95	52	47	0.5	0.06	421	0006-1L
2970.00	cut	Sh/Clst: m gy to brn gy	0.07	0.77	0.46	1.67	0.95	81	48	0.8	0.08	427	0007-1L
3080.00	cut	Sh/Clst: m gy to brn gy	0.05	0.62	0.45	1.38	0.98	63	46	0.7	0.07	424	0008-1L
3126.00	swc	S/Sst : w to lt gy w	1.18	1.13	0.29	3.90	0.75	151	39	2.3	0.51	428	0023-1L
3138.50	swc	S/Sst : w to lt gy w	1.87	0.70	0.22	3.18	0.47	149	47	2.6	0.73	401	0024-1L
3147.61	ccp	Sh/Clst: m gy	0.10	0.44	0.05	8.80	0.97	45	5	0.5	0.19	429	0025-1L
3148.54	ccp	S/Sst : gy w	0.01	0.03	0.14	0.21	0.05	60	280	-	0.25	437	0026-1L
3158.26	ccp	Sh/Clst: m gy	0.43	3.13	0.16	19.56	1.29	243	12	3.6	0.12	364	0027-1L
3166.71	ccp	Sh/Clst: m gy	0.08	0.48	0.03	16.00	0.92	52	3	0.6	0.14	429	0028-1L

Table 2 : Rock-Eval table for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3169.99	ccp	S/Sst : gy w to lt gy	0.05	0.76	0.08	9.50	0.22	345	36	0.8	0.06	372	0029-1L
3250.00	cut	Sh/Clst: m gy to drk gy	0.12	0.86	0.28	3.07	1.06	81	26	1.0	0.12	429	0009-1L
3420.00	cut	Sh/Clst: m gy to drk gy	0.14	1.12	0.16	7.00	1.05	107	15	1.3	0.11	434	0010-1L
3500.00	cut	Sh/Clst: m gy to drk gy	0.10	0.85	0.18	4.72	1.03	83	17	1.0	0.11	433	0011-1L
3700.00	cut	Sh/Clst: m gy to drk gy	0.14	0.99	0.17	5.82	1.05	94	16	1.1	0.12	435	0012-1L
3840.00	cut	Sh/Clst: m gy to drk gy	0.14	0.66	0.14	4.71	1.04	63	13	0.8	0.17	440	0013-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	0.85	4.39	0.07	62.71	3.86	114	2	5.2	0.16	443	0030-1L
3924.70	ccp	Sltst : y gy to lt brn gy to drk y brn	0.10	0.14	0.79	0.18	0.40	35	198	0.2	0.42	402	0031-1L
3927.55	ccp	Sh/Clst: m gy to drk gy	0.95	3.34	0.23	14.52	3.06	109	8	4.3	0.22	438	0032-1L
3933.97	ccp	Sh/Clst: m gy to drk gy	0.78	2.83	0.11	25.73	2.48	114	4	3.6	0.22	439	0033-1L
3937.20	ccp	S/Sst : y gy to lt brn gy	1.19	0.29	0.20	1.45	0.19	153	105	1.5	0.80	392	0034-1L
3938.11	ccp	Sltst : lt gy to lt brn gy	0.89	2.68	0.36	7.44	0.57	470	63	3.6	0.25	346	0035-1L
3938.46	ccp	Sh/Clst: m gy to drk gy	0.08	0.29	0.04	7.25	0.76	38	5	0.4	0.22	413	0036-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	0.86	6.07	0.03	202.33	3.79	160	1	6.9	0.12	443	0037-1L

Table 2 : Rock-Eval table for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3952.00	cut	Sh/Clst: m gy to drk gy	0.28	1.06	0.16	6.63	1.45	73	11	1.3	0.21	445	0014-1L
3976.66	ccp	Sltst : lt gy w to lt gy	0.14	0.28	0.13	2.15	0.15	187	87	0.4	0.33	373	0038-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	0.59	5.47	0.35	15.63	3.58	153	10	6.1	0.10	439	0039-1L
3980.25	ccp	Sltst : lt gy to m gy	0.16	0.48	0.47	1.02	0.93	52	51	0.6	0.25	459	0040-1L
3983.80	ccp	Sltst : lt gy to m gy	0.10	0.12	0.10	1.20	0.19	63	53	0.2	0.45	449	0041-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	0.55	3.47	0.04	86.75	4.53	77	1	4.0	0.14	445	0042-1L
3984.59	ccp	Sltst : lt gy	0.07	0.06	0.07	0.86	0.13	46	54	0.1	0.54	438	0043-1L
3986.50	ccp	Sh/Clst: drk gy	0.28	2.73	0.26	10.50	1.72	159	15	3.0	0.09	440	0044-1L
3990.95	ccp	Sh/Clst: drk gy	0.06	0.48	0.07	6.86	0.84	57	8	0.5	0.11	445	0045-1L
3993.57	ccp	Sh/Clst: m gy to drk gy	0.02	0.09	0.13	0.69	0.44	20	30	0.1	0.18	454	0046-1L
3999.63	ccp	Sh/Clst: drk gy	0.06	0.29	0.32	0.91	0.87	33	37	0.3	0.17	423	0047-1L
4080.00	cut	Sh/Clst: m gy to drk gy	0.03	0.16	0.14	1.14	0.80	20	18	0.2	0.16	472	0015-1L
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	0.88	4.66	0.20	23.30	2.87	162	7	5.5	0.16	441	0016-1L
4152.00	swc	Sh/Clst: brn blk	0.20	2.36	0.45	5.24	4.61	51	10	2.6	0.08	451	0048-1L

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Table 2 : Rock-Eval table for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4168.50	swc	Sh/Clst: dsk y brn to brn blk	3.03	12.51	0.20	62.55	6.94	180	3	15.5	0.19	440	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	3.46	19.73	0.30	65.77	8.03	246	4	23.2	0.15	445	0017-1L
4170.00	cut	Sh/Clst: m gy to drk gy	0.13	0.27	0.18	1.50	0.85	32	21	0.4	0.32	445	0017-2L
4173.44	ccp	S/Sst : lt gy w to m gy to lt brn gy	0.28	0.16	0.16	1.00	0.33	48	48	0.4	0.64	451	0050-1L
4184.67	ccp	Sltst : lt gy w to lt gy	0.14	0.13	0.04	3.25	0.12	108	33	0.3	0.52	406	0051-1L
4198.21	ccp	S/Sst : lt brn gy to pl y brn	0.40	0.21	0.02	10.50	0.08	263	25	0.6	0.66	368	0052-1L
4206.49	ccp	S/Sst : lt brn gy to brn gy	0.29	0.23	0.04	5.75	0.07	329	57	0.5	0.56	387	0053-1L
4214.40	ccp	S/Sst : lt brn gy to pl y brn	0.47	0.15	0.04	3.75	0.06	250	67	0.6	0.76	410	0054-1L
4222.22	ccp	S/Sst : lt brn gy to pl y brn	0.62	0.25	0.09	2.78	0.10	250	90	0.9	0.71	373	0055-1L
4233.00	cut	S/Sst : lt gy w to gy w	0.14	0.73	0.12	6.08	0.13	562	92	0.9	0.16	369	0018-5L
4254.00	cut	S/Sst : lt gy w	0.09	0.26	0.12	2.17	0.05	520	240	0.3	0.26	366	0019-1L
4272.00	cut	S/Sst : lt gy w	0.06	0.40	0.07	5.71	0.08	500	88	0.5	0.13	369	0020-1L
4293.00	cut	S/Sst : lt gy w	0.15	0.42	0.06	7.00	0.08	525	75	0.6	0.26	366	0021-1L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1250.00	cut	Sltst : lt gy	5.34	28.29	58.08	8.29	0.56	0001-1L
2970.00	cut	Sh/Clst: m gy to brn gy	7.77	27.36	53.38	11.49	0.77	0007-1L
3158.26	ccp	Sh/Clst: m gy	3.86	15.74	61.76	18.64	3.13	0027-1L
3420.00	cut	Sh/Clst: m gy to drk gy	8.67	25.66	54.19	11.47	1.12	0010-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	9.74	14.07	36.00	40.19	4.39	0030-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	6.88	14.83	36.06	42.22	6.07	0037-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	5.80	14.46	35.51	44.24	5.47	0039-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	13.89	18.12	31.38	36.60	3.47	0042-1L
3986.50	ccp	Sh/Clst: drk gy	7.45	18.78	45.87	27.89	2.73	0044-1L
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	5.28	16.89	39.55	38.28	4.66	0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	8.27	18.34	35.88	37.52	12.51	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	9.62	16.24	34.58	39.56	19.73	0017-1L

Table 4: Results of TLC-FID analysis: Rel. percentages of sep. fractions for well NOCS 6506/11-3

Depth unit of measure: m

Depth	S Tp	F Tp	Lithology	Sat HC	Aro HC	Resins	Asp	Tot HC	Tot Pol	Sample
3921.45	ccp	L	SHALE/CLAYSTONE	12.43	51.87	34.69	1.02	64.29	35.71	0030-1L
3937.00	rft	B	BULK FRACTION	72.86	25.07	2.02	0.05	97.93	2.07	0056-0B
3937.20	ccp	L	SANDSTONE/SAND	76.13	15.78	7.75	0.35	91.91	8.09	0034-1L
3944.73	ccp	L	SHALE/CLAYSTONE	15.78	40.24	42.83	1.15	56.02	43.98	0037-1L
3976.84	ccp	L	SHALE/CLAYSTONE	8.90	41.04	48.63	1.44	49.93	50.07	0039-1L
3984.39	ccp	L	SHALE/CLAYSTONE	3.86	53.51	42.00	0.62	57.37	42.63	0042-1L
3986.50	ccp	L	SHALE/CLAYSTONE	11.09	34.30	53.32	1.29	45.39	54.61	0044-1L
4150.00	cut	L	SHALE/CLAYSTONE	14.03	10.39	74.19	1.38	24.42	75.58	0016-1L
4168.50	swc	L	SHALE/CLAYSTONE	16.84	46.24	33.67	3.24	63.08	36.92	0049-1L
4170.00	cut	L	SHALE/CLAYSTONE	15.75	38.99	44.10	1.16	54.74	45.26	0017-1L

Table 5 a: Weight of EOM and Chromatographic Fraction for well NOCS 6506/11-3

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
1250.00	cut	Sltst : lt gy	1.6	2.4	-	-	-	-	-	-	0.56	0001-1L
2970.00	cut	Sh/Clst: m gy to brn gy	5.2	4.2	-	-	-	-	-	-	0.97	0007-1L
3138.50	swc	S/Sst : w to lt gy w	1.9	6.2	-	-	-	-	-	-	0.42	0024-1L
3158.26	ccp	Sh/Clst: m gy	9.1	6.6	0.4	0.4	4.1	1.7	0.8	5.8	1.34	0027-1L
3420.00	cut	Sh/Clst: m gy to drk gy	6.7	3.8	-	-	-	-	-	-	0.96	0010-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	8.9	15.9	2.2	6.1	5.8	1.8	8.3	7.6	3.93	0030-1L
3937.00	rft	bulk	-	120.4	85.9	25.4	4.0	5.1	111.3	9.1	-	0056-0B
3937.20	ccp	S/Sst : y gy to lt brn gy	11.1	23.4	14.8	4.0	2.4	2.2	18.8	4.6	0.66	0034-1L
3938.11	ccp	Sltst : lt gy to lt brn gy	8.9	8.0	-	-	-	-	-	-	0.44	0035-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	9.4	22.1	3.9	6.3	8.9	3.0	10.2	11.9	3.77	0037-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	10.1	29.9	2.6	7.4	15.1	4.8	10.0	19.9	4.91	0039-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	10.1	16.3	1.1	5.4	8.4	1.4	6.5	9.8	4.20	0042-1L
3984.59	ccp	Sltst : lt gy	10.4	2.9	-	-	-	-	-	-	0.15	0043-1L
3986.50	ccp	Sh/Clst: drk gy	10.3	16.6	2.0	2.0	5.9	6.7	4.0	12.6	2.31	0044-1L

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Table 5 a: Weight of EOM and Chromatographic Fraction for well NOCS 6506/11-3

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
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	8.7	9.5	3.3	1.8	3.5	0.9	5.1	4.4	1.73	0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	4.2	37.2	8.1	8.7	13.3	7.1	16.8	20.4	6.91	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	4.2	33.5	6.8	8.6	13.5	4.6	15.4	18.1	9.12	0017-1L
4173.44	ccp	S/Sst : lt gy w to m gy to lt brn gy	10.8	8.2	3.8	1.8	1.9	0.7	5.6	2.6	0.38	0050-1L
4198.21	ccp	S/Sst : lt brn gy to pl y brn	12.7	7.5	4.7	1.3	0.6	0.9	6.0	1.5	0.17	0052-1L
4214.40	ccp	S/Sst : lt brn gy to pl y brn	10.0	7.1	-	-	-	-	-	-	0.15	0054-1L
4222.22	ccp	S/Sst : lt brn gy to pl y brn	10.3	6.5	-	-	-	-	-	-	0.16	0055-1L

Table 5 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1250.00	cut	Sltst : lt gy	1509	-	-	-	-	-	-	0001-1L
2970.00	cut	Sh/Clst: m gy to brn gy	810	-	-	-	-	-	-	0007-1L
3138.50	swc	S/Sst : w to lt gy w	3195	-	-	-	-	-	-	0024-1L
3158.26	ccp	Sh/Clst: m gy	723	43	43	449	186	87	635	0027-1L
3420.00	cut	Sh/Clst: m gy to drk gy	568	-	-	-	-	-	-	0010-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	1794	248	688	654	203	936	857	0030-1L
3937.00	rft	bulk	-	-	-	-	-	-	-	0056-0B
3937.20	ccp	S/Sst : y gy to lt brn gy	2098	1327	358	215	197	1686	412	0034-1L
3938.11	ccp	Sltst : lt gy to lt brn gy	900	-	-	-	-	-	-	0035-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	2346	414	668	944	318	1082	1263	0037-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	2963	257	733	1496	475	991	1972	0039-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	1615	109	535	832	138	644	971	0042-1L
3984.59	ccp	Sltst : lt gy	279	-	-	-	-	-	-	0043-1L
3986.50	ccp	Sh/Clst: drk gy	1616	194	194	574	652	389	1226	0044-1L

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Table 5 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	1089	378	206	401	103	584	504	0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	8920	1944	2086	3189	1700	4031	4889	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	7957	1615	2042	3206	1092	3657	4299	0017-1L
4173.44	ccp	S/Sst : lt gy w to m gy to lt brn gy	757	351	166	175	64	517	240	0050-1L
4198.21	ccp	S/Sst : lt brn gy to pl y brn	590	370	102	47	70	472	118	0052-1L
4214.40	ccp	S/Sst : lt brn gy to pl y brn	710	-	-	-	-	-	-	0054-1L
4222.22	ccp	S/Sst : lt brn gy to pl y brn	632	-	-	-	-	-	-	0055-1L

Depth unit of measure: m

Depth	Typ Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1250.00	cut Sltst : lt gy	269.54	-	-	-	-	-	-	0001-1L
2970.00	cut Sh/Clst: m gy to brn gy	83.59	-	-	-	-	-	-	0007-1L
3138.50	swc S/Sst : w to lt gy w	760.92	-	-	-	-	-	-	0024-1L
3158.26	ccp Sh/Clst: m gy	54.01	3.27	3.27	33.55	13.91	6.55	47.46	0027-1L
3420.00	cut Sh/Clst: m gy to drk gy	59.26	-	-	-	-	-	-	0010-1L
3921.45	ccp Sh/Clst: m gy to drk gy	45.66	6.32	17.52	16.66	5.17	23.84	21.83	0030-1L
3937.00	rft bulk	-	-	-	-	-	-	-	0056-0B
3937.20	ccp S/Sst : y gy to lt brn gy	317.98	201.11	54.36	32.61	29.90	255.47	62.51	0034-1L
3938.11	ccp Sltst : lt gy to lt brn gy	204.75	-	-	-	-	-	-	0035-1L
3944.73	ccp Sh/Clst: m gy to drk gy	62.23	10.98	17.74	25.06	8.45	28.72	33.51	0037-1L
3976.84	ccp Sh/Clst: m gy to drk gy	60.35	5.25	14.94	30.48	9.69	20.18	40.17	0039-1L
3984.39	ccp Sh/Clst: m gy to drk gy	38.46	2.60	12.74	19.82	3.30	15.34	23.13	0042-1L
3984.59	ccp Sltst : lt gy	186.62	-	-	-	-	-	-	0043-1L
3986.50	ccp Sh/Clst: drk gy	69.97	8.43	8.43	24.87	28.24	16.86	53.11	0044-1L

Table 5 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	62.97	21.88	11.93	23.20	5.97	33.81	29.17	0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	129.10	28.15	30.19	46.16	24.61	58.34	70.76	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	87.25	17.71	22.40	35.16	11.98	40.11	47.14	0017-1L
4173.44	ccp	S/Sst : lt gy w to m gy to lt brn gy	199.44	92.42	43.78	46.21	17.02	136.20	63.24	0050-1L
4198.21	ccp	S/Sst : lt brn gy to pl y brn	347.38	217.69	60.21	27.79	41.69	277.91	69.48	0052-1L
4214.40	ccp	S/Sst : lt brn gy to pl y brn	473.33	-	-	-	-	-	-	0054-1L
4222.22	ccp	S/Sst : lt brn gy to pl y brn	395.18	-	-	-	-	-	-	0055-1L

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
1250.00	cut	Sltst : lt gy	-	-	-	-	-	-	-	-	0001-1L
2970.00	cut	Sh/Clst: m gy to brn gy	-	-	-	-	-	-	-	-	0007-1L
3138.50	swc	S/Sst : w to lt gy w	-	-	-	-	-	-	-	-	0024-1L
3158.26	ccp	Sh/Clst: m gy	6.06	6.06	62.12	25.76	12.12	87.88	100.00	13.79	0027-1L
3420.00	cut	Sh/Clst: m gy to drk gy	-	-	-	-	-	-	-	-	0010-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	13.84	38.36	36.48	11.32	52.20	47.80	36.07	109.21	0030-1L
3937.00	rft	bulk	71.35	21.10	3.32	4.24	92.44	7.56	338.19	1223.08	0056-0B
3937.20	ccp	S/Sst : y gy to lt brn gy	63.25	17.09	10.26	9.40	80.34	19.66	370.00	408.70	0034-1L
3938.11	ccp	Sltst : lt gy to lt brn gy	-	-	-	-	-	-	-	-	0035-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	17.65	28.51	40.27	13.57	46.15	53.85	61.90	85.71	0037-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	8.70	24.75	50.50	16.05	33.44	66.56	35.14	50.25	0039-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	6.75	33.13	51.53	8.59	39.88	60.12	20.37	66.33	0042-1L
3984.59	ccp	Sltst : lt gy	-	-	-	-	-	-	-	-	0043-1L
3986.50	ccp	Sh/Clst: drk gy	12.05	12.05	35.54	40.36	24.10	75.90	100.00	31.75	0044-1L

Table 5 d: Composition of material extracted from the rock (%) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	Aro	Non-HC	
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	34.74	18.95	36.84	9.47	53.68	46.32	183.33	115.91	0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	21.80	23.39	35.75	19.06	45.19	54.81	93.22	82.44	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	20.30	25.67	40.30	13.73	45.97	54.03	79.07	85.08	0017-1L
4173.44	ccp	S/Sst : lt gy w to m gy to lt brn gy	46.34	21.95	23.17	8.54	68.29	31.71	211.11	215.38	0050-1L
4198.21	ccp	S/Sst : lt brn gy to pl y brn	62.67	17.33	8.00	12.00	80.00	20.00	361.54	400.00	0052-1L
4214.40	ccp	S/Sst : lt brn gy to pl y brn	-	-	-	-	-	-	-	-	0054-1L
4222.22	ccp	S/Sst : lt brn gy to pl y brn	-	-	-	-	-	-	-	-	0055-1L

Table 6 : Saturated Hydrocarbon Ratios for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
3158.26	ccp	Sh/Clst: m gy	1.19	3.51	0.82	0.39	1.19	0027-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	0.40	1.79	0.31	0.23	0.69	0030-1L
3937.00	rft	bulk	0.50	2.66	0.37	0.22	0.92	0056-0B
3937.20	ccp	S/Sst : y gy to lt brn gy	0.48	2.56	0.34	0.19	1.02	0034-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	0.92	3.38	0.62	0.29	1.09	0037-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	0.30	2.03	0.24	0.18	1.16	0039-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	0.21	1.90	0.18	0.13	0.93	0042-1L
3986.50	ccp	Sh/Clst: drk gy	0.47	1.89	0.32	0.20	1.10	0044-1L
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	0.95	3.83	0.65	0.30	1.30	0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	0.56	2.03	0.46	0.35	1.02	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	0.55	1.94	0.46	0.35	0.87	0017-1L
4173.44	ccp	S/Sst : lt gy w to m gy to lt brn gy	0.50	1.63	0.41	0.32	1.14	0050-1L
4198.21	ccp	S/Sst : lt brn gy to pl y brn	0.49	1.79	0.38	0.27	0.98	0052-1L

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Table 7 : Aromatic Hydrocarbon Ratios for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3158.26	ccp	Sh/Clst: m gy	1.23	2.66	0.71	1.27	0.61	0.70	0.77	-	-	-	0027-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	1.21	2.48	0.96	1.11	0.79	0.92	0.87	0.24	26.73	3.31	0030-1L
3937.00	rft	bulk	1.31	2.33	0.76	1.63	0.87	1.05	0.92	0.21	10.91	1.95	0056-0B
3937.20	ccp	S/Sst : y gy to lt brn gy	1.19	2.36	0.60	1.40	0.88	1.01	0.93	0.18	-	-	0034-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	1.24	2.51	0.78	1.09	0.78	0.89	0.87	0.22	20.37	2.87	0037-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	1.28	2.67	0.58	1.28	0.86	1.03	0.92	0.19	15.46	3.14	0039-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	1.29	2.67	0.58	1.19	0.85	1.02	0.91	0.18	12.06	3.81	0042-1L
3986.50	ccp	Sh/Clst: drk gy	1.39	3.07	0.54	1.22	0.74	0.86	0.84	0.12	-	-	0044-1L
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	1.03	2.19	1.63	1.01	0.70	0.78	0.82	0.14	-	-	0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	1.17	2.20	0.57	0.96	0.76	0.86	0.86	0.31	24.39	2.26	0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	1.11	2.22	0.58	0.98	0.76	0.86	0.86	0.30	26.44	2.40	0017-1L
4173.44	ccp	S/Sst : lt gy w to m gy to lt brn gy	1.13	2.50	0.45	1.16	0.85	0.99	0.91	0.25	24.26	2.25	0050-1L
4198.21	ccp	S/Sst : lt brn gy to pl y brn	0.95	2.00	0.26	1.23	0.93	1.09	0.96	-	9.83	1.34	0052-1L

Table 8 : Thermal Maturity Data for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
1250.00	cut Sltst : lt gy	-	-	-	-	2.5-3.0	424	0001-1L
2970.00	cut Sh/Clst: m gy to brn gy	-	-	-	-	6.0(?)	427	0007-1L
3158.26	ccp Sh/Clst: m gy	-	-	-	-	6.0-6.5	364	0027-1L
3420.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	6.0	434	0010-1L
3921.45	ccp Sh/Clst: m gy to drk gy	-	-	-	-	6.5	443	0030-1L
3944.73	ccp Sh/Clst: m gy to drk gy	-	-	-	-	6.0-6.5	443	0037-1L
3976.84	ccp Sh/Clst: m gy to drk gy	-	-	-	-	6.0	439	0039-1L
3984.39	ccp Sh/Clst: m gy to drk gy	-	-	-	-	6.0	445	0042-1L
3986.50	ccp Sh/Clst: drk gy	-	-	-	-	6.5-7.0	440	0044-1L
4150.00	cut Sh/Clst: m gy to drk gy to dsk y brn	-	-	-	-	7.0-7.5	441	0016-1L
4168.50	swc Sh/Clst: dsk y brn to brn blk	-	-	-	-	7.0	440	0049-1L
4170.00	cut Sh/Clst: dsk y brn to brn blk	-	-	-	-	7.0(?)	445	0017-1L

Table 9 : Visual Kerogen Composition Data for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m o r L t	L i p D e t	S p /P o l	C u t i c l	R e s i n	D i a l	A c c i t L	I N E R T %	F u s i n	S e m F u s t	I n D e n	M i c r i n	S c l e r o I	V I T R %	T e l l i n	C o l l i n	V i t D e t V	A m o r t V	B i t V	Sample
1250.00	cut	Sltst : lt gy	80	**	*	*		*	*		10		*				10		*				0001-1L
2970.00	cut	Sh/Clst: m gy to brn gy	50	**	**	*		*	*		40		*				10	*	**				0007-1L
3158.26	ccp	Sh/Clst: m gy	55	**	**	*	*	*			20		*				25	*	**				0027-1L
3420.00	cut	Sh/Clst: m gy to drk gy	65	**	**	*		*	*		15		*				20	*	**				0010-1L
3921.45	ccp	Sh/Clst: m gy to drk gy	15		*	**	*	*	*		25	**	*				60	*	*	*			0030-1L
3944.73	ccp	Sh/Clst: m gy to drk gy	50	**	**	**	*	*	*		15		*	**			35	*	**				0037-1L
3976.84	ccp	Sh/Clst: m gy to drk gy	55	**	*	**		*	*		20		*	*			25	*	*				0039-1L
3984.39	ccp	Sh/Clst: m gy to drk gy	20	*	*	**	**	*			30	**	*				50	**	*	*			0042-1L
3986.50	ccp	Sh/Clst: drk gy	40		**	*		*			15	**	*				45	**	*	*			0044-1L
4150.00	cut	Sh/Clst: m gy to drk gy to dsk y brn	65	**	**	*	*				20		*	**			15	*	**				0016-1L
4168.50	swc	Sh/Clst: dsk y brn to brn blk	85	**	**	*		*			5		*				10		*				0049-1L
4170.00	cut	Sh/Clst: dsk y brn to brn blk	90	**	**	*		*			5		*				5		*				0017-1L

Table 10A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
1250.00	cut	Sltst	-29.91	-	-	-	-	-26.26	0001-1
2970.00	cut	Sh/Clst	-28.53	-	-	-	-	-25.60	0007-1
3138.50	swc	S/Sst	-28.95	-	-	-	-	-	0024-1
3158.26	ccp	Sh/Clst	-25.52	*-25.83	*-26.58	*-24.81	-25.72	-25.81	0027-1
3420.00	cut	Sh/Clst	-27.19	-	-	-	-	-25.93	0010-1
3921.45	ccp	Sh/Clst	-25.84	-26.35	-25.99	-25.93	-25.22	-25.15	0030-1
3937.00	rft	bulk	-27.39	-27.75	-26.51	-27.42	-27.37	-	0056-0
3937.20	ccp	S/Sst	-27.43	-27.79	-26.60	-26.97	-26.68	-	0034-1
3938.11	ccp	Sltst	-27.23	-	-	-	-	-	0035-1
3944.73	ccp	Sh/Clst	-26.36	-26.50	-26.17	-26.49	-25.71	-25.77	0037-1
3976.84	ccp	Sh/Clst	-26.24	-26.61	-26.07	-26.71	-25.81	-25.57	0039-1
3984.39	ccp	Sh/Clst	-26.16	*-25.70	-25.85	*-26.71	-26.01	-25.75	0042-1
3984.59	ccp	Sltst	-28.78	-	-	-	-	-	0043-1
3986.50	ccp	Sh/Clst	-26.63	-27.51	-26.24	-26.77	-25.79	-25.81	0044-1
4150.00	cut	Sh/Clst	-29.28	-29.02	-28.71	-29.34	-28.91	-27.86	0016-1

* Too little material for rerun.

Table 10A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
4168.50	swc	Sh/Clst	-29.55	-30.06	-29.39	-29.53	-29.37	-28.27	0049-1
4170.00	cut	Sh/Clst	-29.47	-30.04	-29.39	-29.55	-29.28	-28.95	0017-1
4173.44	ccp	S/Sst	-28.20	-29.07	-27.82	-27.43	-26.28	-	0050-1
4198.21	ccp	S/Sst	-27.99	-27.90	-26.80	-27.45	-27.01	-	0052-1
4214.40	ccp	S/Sst	-28.06	-	-	-	-	-	0054-1
4222.22	ccp	S/Sst	-27.95	-	-	-	-	-	0055-1

Depth unit of measure: m

Depth	Typ	Lithology	Saturated	Aromatic	cv value	Sample
1250.00	cut	Sltst	-	-	-	0001-1
2970.00	cut	Sh/Clst	-	-	-	0007-1
3138.50	swc	S/Sst	-	-	-	0024-1
3158.26	ccp	Sh/Clst	*-25.83	-26.58	-5.31	0027-1
3420.00	cut	Sh/Clst	-	-	-	0010-1
3921.45	ccp	Sh/Clst	-26.35	-25.99	-2.68	0030-1
3937.00	rft	bulk	-27.75	-26.51	-0.29	0056-0
3937.20	ccp	S/Sst	-27.79	-26.60	-0.39	0034-1
3938.11	ccp	Sltst	-	-	-	0035-1
3944.73	ccp	Sh/Clst	-26.50	-26.17	-2.70	0037-1
3976.84	ccp	Sh/Clst	-26.61	-26.07	-2.20	0039-1
3984.39	ccp	Sh/Clst	*-25.70	-25.85	-4.02	0042-1
3984.59	ccp	Sltst	-	-	-	0043-1
3986.50	ccp	Sh/Clst	-27.51	-26.24	-0.30	0044-1
4150.00	cut	Sh/Clst	-29.02	-28.71	-1.97	0016-1

* Too little material for rerun.

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Table 10B: Tabulation of cv values from carbon isotope data for well NOCS 6506/11-3

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
4168.50	swc	Sh/Clst	-30.06	-29.39	-0.84	0049-1
4170.00	cut	Sh/Clst	-30.04	-29.39	-0.89	0017-1
4173.44	ccp	S/Sst	-29.07	-27.82	0.14	0050-1
4198.21	ccp	S/Sst	-27.90	-26.80	-0.56	0052-1
4214.40	ccp	S/Sst	-	-	-	0054-1
4222.22	ccp	S/Sst	-	-	-	0055-1

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B	C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D	D+F/C+E	J1	Sample
				B+E+F									C+D+E+F		J1+J2%	
1250.00	Sltst	0.96	0.49	0.16	0.62	0.38	0.80	0.25	0.40	0.20	0.55	0.81	0.43	0.32	20.21	0001-1
2970.00	Sh/Clst	2.03	0.67	0.15	0.53	0.34	0.03	0.48	0.91	0.32	0.06	0.81	0.40	0.35	21.77	0007-1
3138.50	S/Sst	1.10	0.52	0.16	0.63	0.39	0.04	0.60	0.96	0.38	0.14	0.92	0.45	0.21	47.56	0024-1
3158.26	Sh/Clst	10.95	0.92	0.21	0.57	0.36	0.04	0.01	0.02	0.01	0.02	0.72	0.39	0.46	37.59	0027-1
3420.00	Sh/Clst	6.92	0.87	0.22	0.68	0.41	0.01	0.17	0.25	0.15	0.03	0.78	0.42	0.30	49.97	0010-1
3921.45	Sh/Clst	0.34	0.26	0.16	0.66	0.40	0.16	0.02	0.03	0.02	0.06	0.89	0.39	0.12	59.28	0030-1
3937.00	bulk	0.23	0.18	0.08	0.54	0.35	0.19	0.05	0.10	0.05	0.08	0.93	0.35	0.08	57.04	0056-0
3937.20	S/Sst	0.25	0.20	0.07	0.48	0.33	0.21	0.04	0.08	0.04	0.05	0.92	0.33	0.08	61.44	0034-1
3938.11	Sltst	0.28	0.22	0.09	0.49	0.33	0.22	0.05	0.10	0.05	0.03	0.92	0.33	0.08	62.57	0035-1
3944.73	Sh/Clst	0.26	0.21	0.06	0.36	0.27	0.22	0.02	0.05	0.02	0.06	0.91	0.27	0.10	59.62	0037-1
3976.84	Sh/Clst	0.55	0.35	0.12	0.55	0.35	0.13	0.03	0.06	0.03	0.03	0.89	0.34	0.11	59.68	0039-1
3984.39	Sh/Clst	0.57	0.36	0.12	0.61	0.38	0.13	0.05	0.09	0.05	0.02	0.89	0.37	0.11	59.94	0042-1
3984.59	Sltst	0.41	0.29	0.15	0.58	0.37	0.17	0.14	0.24	0.12	0.24	0.91	0.38	0.13	40.73	0043-1
3986.50	Sh/Clst	0.92	0.48	0.13	0.54	0.35	0.30	0.05	0.10	0.05	0.04	0.88	0.34	0.12	60.86	0044-1

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Table 11a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B	C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D	D+F/C+E	J1	Sample
				B+E+F									C+D+E+F		J1+J2%	
4150.00	Sh/Clst	0.40	0.28	0.20	0.55	0.35	0.40	0.05	0.08	0.04	0.22	0.87	0.35	0.14	62.13	0016-1
4168.50	Sh/Clst	0.17	0.14	0.14	0.39	0.28	0.83	0.07	0.17	0.06	1.45	0.93	0.26	0.06	59.88	0049-1
4170.00	Sh/Clst	0.11	0.10	0.13	0.30	0.23	1.06	0.09	0.31	0.09	1.79	0.92	0.22	0.06	60.16	0017-1
4173.44	S/Sst	0.25	0.20	0.14	0.56	0.36	0.32	0.06	0.10	0.05	0.73	0.94	0.37	0.08	66.34	0050-1
4198.21	S/Sst	0.18	0.15	0.13	0.43	0.30	0.63	0.14	0.33	0.12	0.96	0.90	0.28	0.08	67.36	0052-1
4214.40	S/Sst	0.22	0.18	0.15	0.43	0.30	0.44	0.10	0.22	0.09	0.53	0.94	0.29	0.05	69.84	0054-1
4222.22	S/Sst	0.28	0.22	0.14	0.36	0.26	0.42	0.11	0.30	0.10	0.40	0.93	0.25	0.06	60.65	0055-1

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
1250.00	Sltst	0.67	38.44	70.54	1.17	0.76	0.51	0.39	0.54	0.62	1.95	0001-1
2970.00	Sh/Clst	0.62	12.14	58.97	1.18	0.86	0.54	0.40	0.42	0.14	0.82	0007-1
3138.50	S/Sst	0.47	19.53	52.70	1.46	0.74	0.53	0.43	0.36	0.24	0.69	0024-1
3158.26	Sh/Clst	0.63	11.31	47.28	1.44	0.80	0.44	0.34	0.31	0.13	0.51	0027-1
3420.00	Sh/Clst	0.29	19.45	42.49	0.91	0.66	0.37	0.30	0.27	0.24	0.46	0010-1
3921.45	Sh/Clst	0.78	46.64	63.52	1.44	0.65	0.56	0.43	0.47	0.87	1.63	0030-1
3937.00	bulk	0.89	61.12	72.28	1.28	0.68	0.53	0.41	0.57	1.57	3.35	0056-0
3937.20	S/Sst	0.90	63.03	73.64	1.26	0.69	0.42	0.31	0.58	1.70	3.78	0034-1
3938.11	Sltst	0.84	61.29	72.96	1.23	0.69	0.43	0.33	0.57	1.58	3.49	0035-1
3944.73	Sh/Clst	0.86	53.24	64.00	1.32	0.63	0.46	0.30	0.47	1.14	1.90	0037-1
3976.84	Sh/Clst	0.80	47.88	67.38	1.07	0.68	0.22	0.14	0.51	0.92	1.98	0039-1
3984.39	Sh/Clst	0.77	44.24	65.78	0.80	0.68	0.25	0.17	0.49	0.79	1.72	0042-1

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 11B: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3984.59	Sltst	0.67	29.46	63.83	1.45	0.75	0.71	0.58	0.47	0.42	1.25	0043-1
3986.50	Sh/Clst	0.85	41.74	63.08	2.06	0.67	0.34	0.23	0.46	0.72	1.47	0044-1
4150.00	Sh/Clst	0.82	52.08	72.63	1.27	0.72	0.67	0.54	0.57	1.09	2.77	0016-1
4168.50	Sh/Clst	0.82	55.29	77.28	1.50	0.75	0.77	0.63	0.63	1.24	3.80	0049-1
4170.00	Sh/Clst	0.80	56.80	77.51	1.69	0.75	0.80	0.67	0.63	1.31	3.99	0017-1
4173.44	S/Sst	0.84	49.70	74.68	1.54	0.75	0.71	0.58	0.60	0.99	2.93	0050-1
4198.21	S/Sst	0.89	61.10	75.02	1.38	0.71	0.61	0.47	0.60	1.57	3.86	0052-1
4214.40	S/Sst	0.89	59.14	73.27	1.31	0.70	0.59	0.43	0.58	1.45	3.35	0054-1
4222.22	S/Sst	0.85	59.19	73.60	1.25	0.70	0.60	0.47	0.58	1.45	3.42	0055-1

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: $r + s / t$

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			
1250.00	Sltst	70046.0	43678.0	16120.8	21286.0	8856.5	19955.0	19089.7	19857.1	49585.6	0001-1
		63613.8	23165.6	79587.3	18724.3	19848.0	109124.8	45164.8	13688.0		
		54028.9	9909.7	7273.2	6423.2	5520.0	9141.5	8163.1			
2970.00	Sh/Clst	18297.6	8667.9	4152.0	12913.1	0.0	16152.8	32868.0	72099.4	79638.6	0007-1
		5012.3	45660.2	151422.1	35424.7	38400.5	99909.3	24875.0	5301.3		
		19047.5	7256.9	7250.3	5777.4	4489.4	0.0	9262.4			
3138.50	S/Sst	89472.0	66202.7	28736.0	65032.0	17358.7	86256.9	94691.0	282884.3	296019.9	0024-1
		18230.9	121901.4	468926.2	38828.0	68924.8	86550.7	11121.5	25913.6		
		28569.0	15694.7	12131.3	17001.6	9452.8	18026.0	7310.2			
3158.26	Sh/Clst	32774.5	25792.2	5590.1	63553.6	3153.3	41234.8	451562.8	11298.4	702172.4	0027-1
		52355.0	405398.8	1233244.3	478401.0	857114.0	829678.8	295555.8	127952.0		
		212438.2	38793.7	70622.3	18601.7	35970.8	9458.8	12891.9			
3420.00	Sh/Clst	20387.8	10173.2	2587.4	36018.9	2966.2	21408.0	148169.8	68972.8	276778.4	0010-1
		5462.0	93727.6	404664.8	111373.6	141357.3	110299.3	44478.4	32441.0		
		32481.9	11646.0	11701.9	12670.3	7982.8	3670.4	17273.2			

Table 11C: Raw GCMS triterpane data (peak height) SIR for Well NOCS 6506/11-3

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			
3921.45	Sh/Clst	133964.8 166993.0 124865.0	65654.6 67318.0 75930.5	28984.2 1074593.0 53996.6	240372.0 138321.3 48359.0	17779.6 399911.6 33238.3	669264.0 280492.7 21811.7	230696.0 67180.0 15890.5	24859.6 181784.0	712765.3	0030-1
3937.00	bulk	130864.0 188270.3 98528.0	75698.8 40223.6 76675.6	29987.4 966729.9 43876.9	152790.7 76925.3 34132.5	25037.8 254413.1 18988.0	381938.6 191812.4 15551.0	86444.6 35139.0 16610.8	51981.8 130833.0	525723.8	0056-0
3937.20	S/Sst	79905.0 222121.7 99273.8	54559.9 40569.1 77760.0	21154.1 1034117.4 48048.0	111931.4 86902.8 35115.9	14758.8 320343.5 23101.8	349171.2 212068.4 16613.8	85763.0 44713.6 13010.5	38028.3 158189.2	499201.0	0034-1
3938.11	Sltst	36616.0 126685.9 57501.3	20309.7 22758.1 48948.2	16335.3 580358.6 26759.2	68029.0 47928.0 27226.4	11462.3 159584.0 14198.0	224182.6 119336.0 12894.4	61756.3 22309.8 6670.2	28248.1 96140.2	285342.3	0035-1
3944.73	Sh/Clst	265422.0 667752.0 406807.8	170242.4 107455.4 305192.0	47608.4 3013275.0 191718.4	317651.3 305839.5 188295.5	70686.0 952632.0 122493.5	858768.0 684455.6 79952.8	223200.0 150935.8 61323.5	58106.2 600715.0	1098406.0	0037-1

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			
3976.84	Sh/Clst	77160.0	66737.4	26542.7	202288.0	32558.2	631824.0	344828.8	72161.2	1210489.4	0039-1
		291368.4	92197.5	2204957.0	270052.6	961960.3	685742.3	144247.0	559210.1		
		377746.3	278851.8	185236.3	188843.0	126879.9	94110.9	66512.8			
3984.39	Sh/Clst	17723.4	12179.8	4439.5	40349.3	3696.0	146607.5	83271.2	27775.5	324116.2	0042-1
		68965.0	30354.6	528103.1	65560.0	230868.2	154230.0	37503.7	118537.3		
		79206.9	56030.9	36884.7	37543.6	24199.6	18149.9	13848.0			
3984.59	Sltst	33932.6	16912.0	6321.2	20201.6	4534.0	34426.5	13967.4	9643.9	40100.1	0043-1
		11585.0	7086.5	69455.0	7186.3	20060.7	15777.8	5804.8	9712.4		
		14134.0	6059.9	4410.4	3870.9	4025.9	5248.3	0.0			
3986.50	Sh/Clst	64278.3	42000.0	12831.3	102708.3	14294.8	199236.0	183439.0	57739.6	578613.3	0044-1
		319988.4	56761.7	1079106.0	144871.7	480636.0	324352.0	90648.5	284585.0		
		182990.5	132858.8	85754.4	87792.2	55349.1	38429.5	21306.9			
4150.00	Sh/Clst	118740.0	85218.1	24734.3	63160.0	30832.0	274920.0	109155.6	17426.9	210220.0	0016-1
		154267.1	22662.6	382527.3	58398.1	125719.0	87440.0	29784.5	84243.2		
		51344.0	41617.0	24914.5	21424.0	15957.3	10893.8	10454.4			

Table 11C: Raw GCMS triterpane data (peak height) SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	jl		
		j2	k1	k2	l1	l2	m1	m2			
4168.50	Sh/Clst	109606.8 66177.3 14021.1	115536.0 15952.6	38298.2 0.0 7002.5	23616.0 79724.0 8884.0	33382.2 6265.8 5075.1	86404.0 21985.6 4936.3	14526.9 17437.4 5110.7	5224.0 10505.1 20926.0	30958.8	0049-1
4170.00	Sh/Clst	203924.2 137549.7 25984.0	232580.0 26268.5	71625.1 0.0 13144.7	47138.3 130051.3 14169.3	62804.9 10910.4 8230.0	187010.1 39297.0 9975.3	21477.3 32784.0 9826.8	12153.9 21603.9 39244.8	38713.6	0017-1
4173.44	S/Sst	71742.3 25631.1 10967.0	57795.4 4983.4 16052.0	19169.4 79672.7 7234.7	29618.1 5439.6 8987.1	14278.0 27129.6 6312.0	55276.8 16503.0 7424.9	13722.9 4382.5 6423.4	4432.3 21612.5	44769.3	0050-1
4198.21	S/Sst	86884.7 48707.0 11441.8	74262.2 20609.3	21506.6 0.0 10832.0	30054.0 77536.2 10067.0	17294.5 8614.1 7345.0	72180.9 29032.0 7977.4	12771.4 19590.1 6587.5	10934.9 9892.1 23608.0	33280.0	0052-1
4214.40	S/Sst	56146.4 31009.0 8025.4	37451.1 13179.1	19095.1 0.0 6711.0	24160.0 70446.9 6507.2	12928.7 4597.8 5885.0	57499.4 21725.7 5927.2	12728.0 15218.6 7205.4	6756.0 4800.5 18581.6	30182.0	0054-1

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			
4222.22	S/Sst	48698.7	38510.9	21676.0	28568.5	11918.7	62048.0	17118.8	10272.0	34332.6	0055-1
		40472.0		0.0	95702.8	7293.3	26057.0	18724.0	5096.4	17521.3	
		11370.0	13905.2	7706.8	6074.7	0.0	3802.9	4291.6			

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Table 11D: Raw GCMS sterane data (peak height) SIR for Well NOCS 6506/11-3

Page: 1

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					
1250.00	Sltst	24107.8	12096.1	25112.6	14397.4	5100.0	7156.1	11824.4	5474.2	5988.1	0001-1
		19063.1	8752.0	12580.5	12113.3	4380.4	4062.2	8590.7	6574.4		
		4470.2	5976.7	10232.1	8384.1	9569.5					
2970.00	Sh/Clst	39926.3	9888.5	31385.3	19918.0	11144.0	8143.1	38106.9	31851.4	10443.7	0007-1
		19998.6	15202.8	18983.2	20157.0	7287.8	5163.6	12425.6	9450.7		
		16789.5	2999.3	10914.2	6833.7	21701.8					
3138.50	S/Sst	127376.0	53137.7	102720.0	66826.5	28452.4	36356.4	49848.2	34777.6	36684.2	0024-1
		66661.9	31086.5	117677.6	42444.8	21987.0	15813.3	29333.3	29029.3		
		96299.4	20106.7	38940.5	18412.4	82859.4					
3158.26	Sh/Clst	67857.2	19304.0	97230.8	72510.4	33055.1	28874.7	94042.7	65261.0	26052.9	0027-1
		69992.7	35258.2	56092.7	54988.7	19008.3	3218.6	16680.4	10673.5		
		24982.8	8641.3	22838.4	11434.3	67782.3					
3420.00	Sh/Clst	57159.9	13590.0	23933.2	19423.1	6812.0	6443.0	20277.0	12759.9	26272.0	0010-1
		20487.9	10448.0	57364.5	16313.3	7005.7	15293.3	18552.8	7476.8		
		53080.3	17372.0	25692.4	7305.1	71963.4					

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					
3921.45	Sh/Clst	122899.5	43536.4	117815.6	86019.8	35352.0	38593.7	77549.6	49398.2	33497.1	0030-1
		86969.1	43129.1	32608.7	55900.7	23448.7	14605.9	27174.4	25062.4		
		16464.6	33001.6	34237.2	27374.9	37755.6					
3937.00	bulk	186438.4	39492.3	246737.3	146089.6	52197.0	48721.8	118705.8	70269.2	40814.8	0056-0
		182894.8	64462.8	30094.8	111662.8	41728.3	21300.5	48828.8	53805.2		
		18142.7	52186.1	68858.1	42490.1	33201.8					
3937.20	S/Sst	99392.0	27921.3	168551.3	104764.0	43072.0	41960.4	98615.6	57497.8	27215.5	0034-1
		134248.6	59055.5	19725.5	81709.5	30672.0	12527.1	38363.7	40176.0		
		12576.0	46995.8	56451.5	47668.2	27563.9					
3938.11	Sltst	69190.6	13800.7	86033.0	56962.1	24261.9	28379.9	49939.6	27724.1	16821.4	0035-1
		74053.4	30453.4	16929.2	46993.2	17279.7	8196.3	20930.3	28459.5		
		10938.2	29095.8	32902.6	31148.4	18373.8					
3944.73	Sh/Clst	236071.3	96798.5	614876.6	378160.0	184816.0	163543.1	531543.1	294968.9	116793.6	0037-1
		447303.3	203719.3	97042.8	330006.1	127440.0	52923.1	112651.8	118399.5		
		62544.0	111704.0	101471.5	85037.5	98126.5					

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Table 11D: Raw GCMS sterane data (peak height) SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
3976.84	Sh/Clst	79629.8	44324.6	331394.8	215705.8	116123.3	100362.4	322349.2	197430.6	96368.2	0039-1
		304112.2	162672.2	82329.1	206105.1	82153.0	67976.3	124343.4	129958.2		
		66824.5	102184.4	120736.0	99632.0	111228.0					
3984.39	Sh/Clst	18197.7	6825.5	41593.6	27466.6	13685.7	13334.1	34418.7	20091.0	12848.1	0042-1
		54084.7	21576.4	12294.3	33581.4	16868.2	9174.6	16200.4	15786.6		
		8900.6	17083.4	20652.8	16466.6	21534.6					
3984.59	Sltst	40654.2	9434.3	18094.2	10967.8	5213.3	5090.1	8159.9	3509.6	6232.5	0043-1
		13259.4	6830.3	8961.3	5641.4	3544.6	3532.7	4721.9	5461.9		
		5670.4	3236.8	5358.0	4334.0	7748.5					
3986.50	Sh/Clst	25932.2	9755.5	115695.6	70755.6	28960.0	31446.8	44302.5	27535.2	20764.0	0044-1
		57464.0	28094.0	19960.0	36628.0	12745.0	6687.2	13124.3	14036.8		
		7040.3	15678.4	16385.8	15701.8	21886.0					
4150.00	Sh/Clst	176520.0	94113.8	122848.0	78658.0	33765.0	34492.4	69790.8	37628.7	29220.6	0016-1
		93495.3	45244.7	26876.7	60988.7	24127.7	15131.2	34498.4	43939.2		
		15059.8	30119.1	39333.0	37415.7	27714.0					

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					
4168.50	Sh/Clst	98601.4	53181.0	58647.9	35079.6	15278.2	13914.3	25454.2	13734.2	14330.3	0049-1
		36989.5	21949.5	13269.6	20645.6	8816.0	7710.9	15556.5	19943.1		
		4046.7	9117.0	13964.9	14077.2	7371.3					
4170.00	Sh/Clst	221426.3	116518.6	99406.6	70629.6	30137.4	29458.5	49356.3	26215.1	27036.1	0017-1
		61713.2	39428.0	24135.8	32727.8	13528.4	10353.5	27943.2	32494.9		
		10955.4	17780.4	28457.2	25495.3	13522.5					
4173.44	S/Sst	83556.8	29159.0	61863.1	38001.1	13767.5	13841.2	27274.7	13160.9	10972.5	0050-1
		40305.4	18996.5	12038.1	22564.2	7439.2	5256.0	12705.6	17347.2		
		5035.7	9161.6	13769.6	13414.5	9272.5					
4198.21	S/Sst	104765.4	32406.1	133710.0	80884.8	29098.1	28630.0	60658.0	35513.9	22316.7	0052-1
		100156.7	36938.7	17276.0	58248.0	19035.6	9101.4	19294.8	32425.5		
		6421.7	21612.9	28397.5	24715.0	13759.4					
4214.40	S/Sst	65792.0	25717.7	91808.0	58773.1	19325.8	17070.7	42369.3	26735.4	15986.5	0054-1
		66578.5	25678.8	11259.3	38928.8	18985.7	10660.3	18361.4	27257.4		
		6604.6	16045.7	19484.6	17702.0	11086.1					

Table 11D: Raw GCMS sterane data (peak height) SIR for Well NOCS 6506/11-3

Depth unit of measure: m

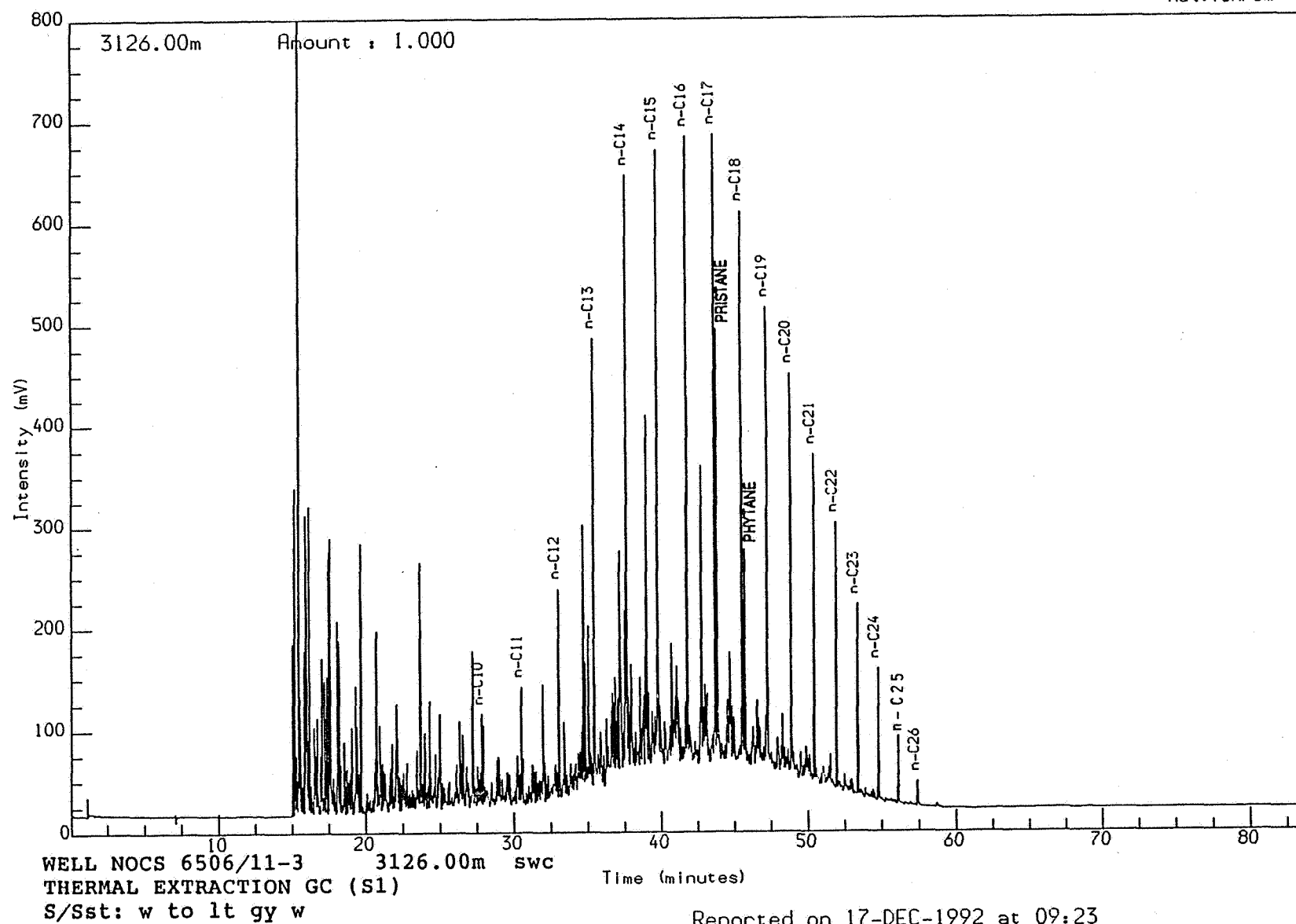
Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
4222.22	S/Sst	79480.0	31886.5	100582.7	59432.8	20551.1	22732.6	50937.0	24581.4	15857.2	0055-1
		75153.2	26289.2	18195.6	49514.7	18626.2	9520.0	18736.0	24685.6		
		6819.7	18130.1	23148.6	19545.2	12498.4					

Appendix 2

**GHM - Thermal Extraction Gas Chromatograms
and GHM - Pyrolysis Gas Chromatography or
Pyrograms**

Analysis Name : [62018] 22 PH94A.8.1.

Multichrom



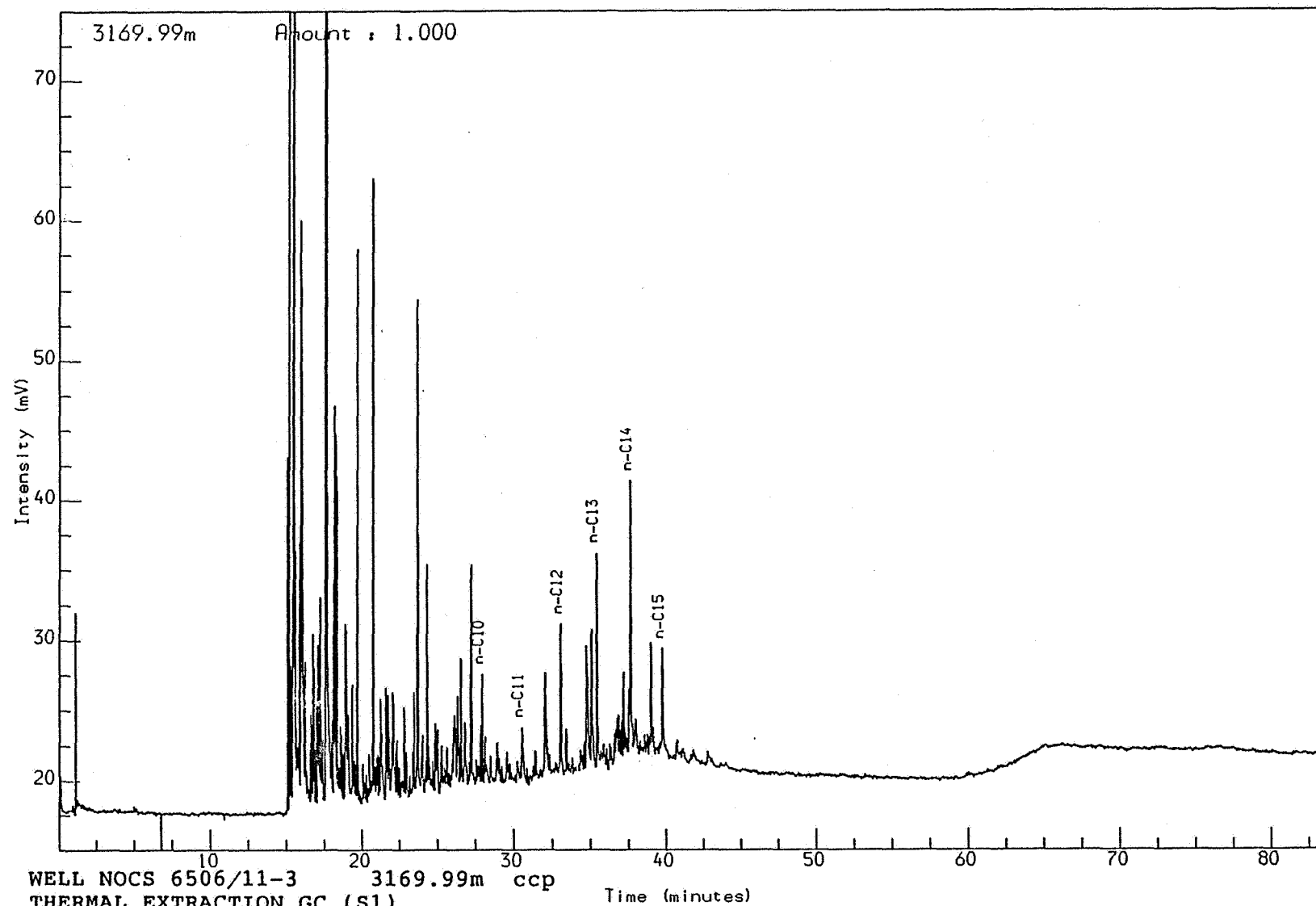
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Analysis Name : [62018] 22 PH94A,3,1.

Multichrom



WELL NOCS 6506/11-3 3169.99m ccp
THERMAL EXTRACTION GC (S1)
S/Sst: gy w to 1t gy

Reported on 17-DEC-1992 at 09:25

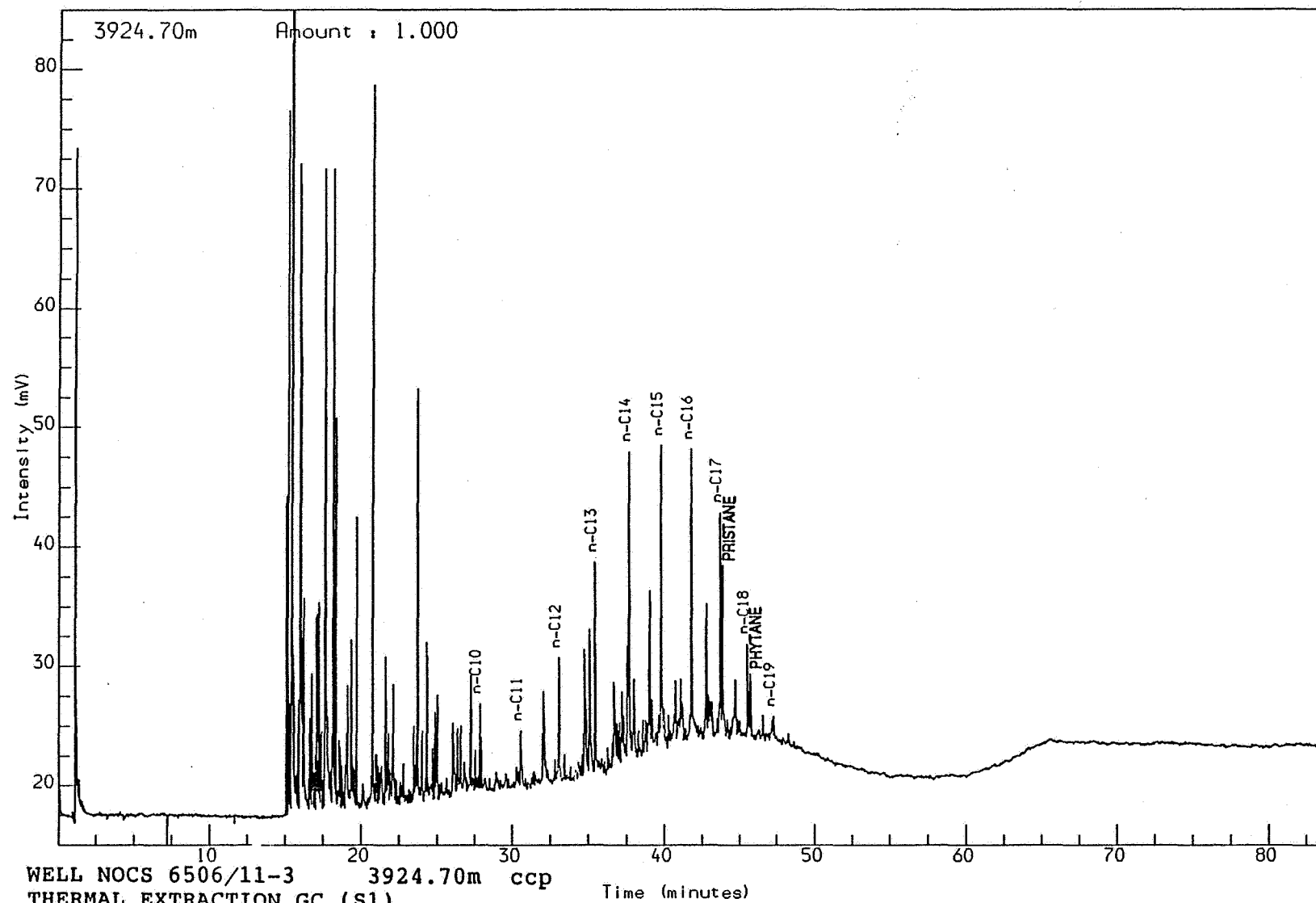
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Analysis Name : [62018] 22 PH94A,2,1.

Multichrom

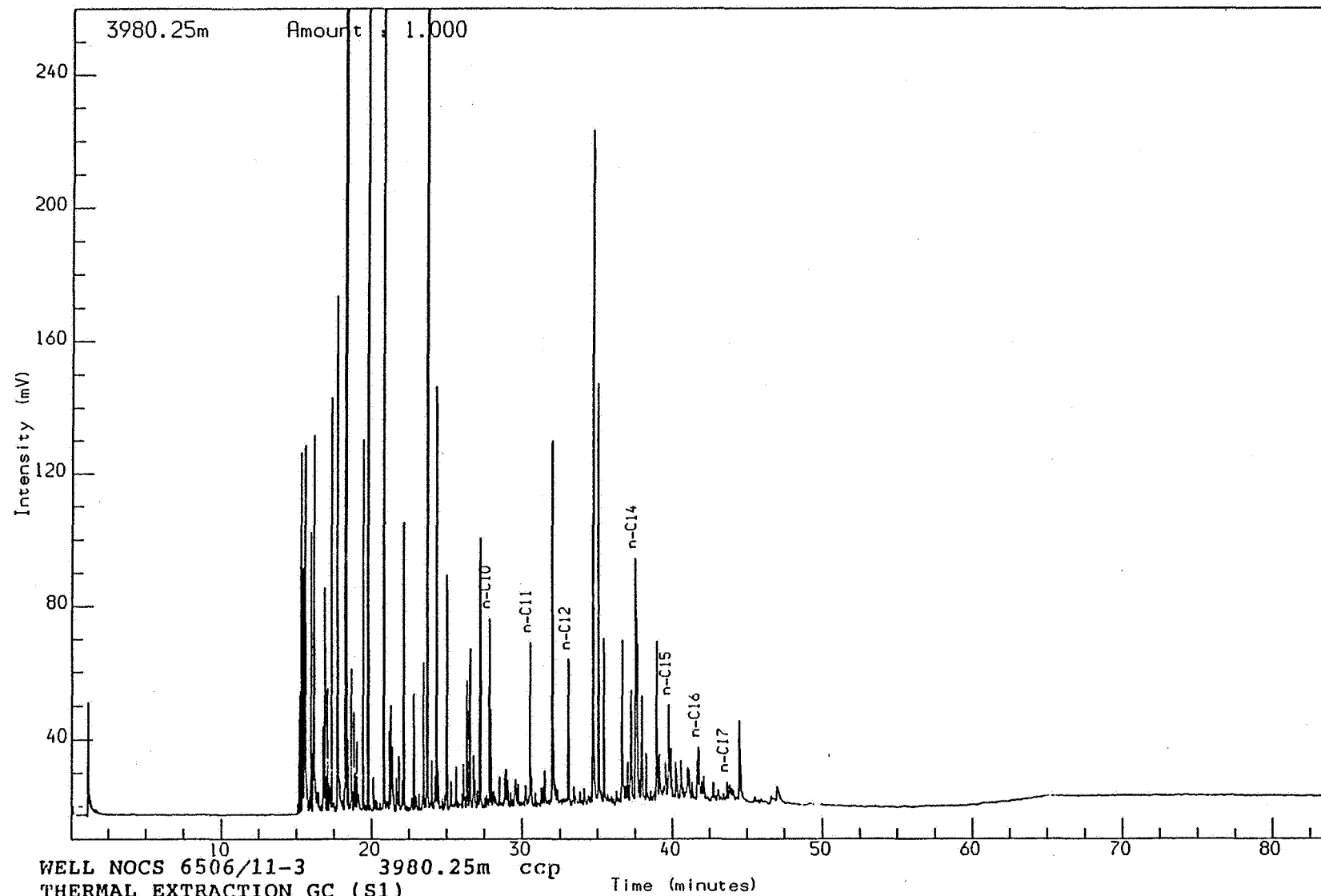


Reported on 17-DEC-1992 at 09:26

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Reported on 17-DEC-1992 at 09:28

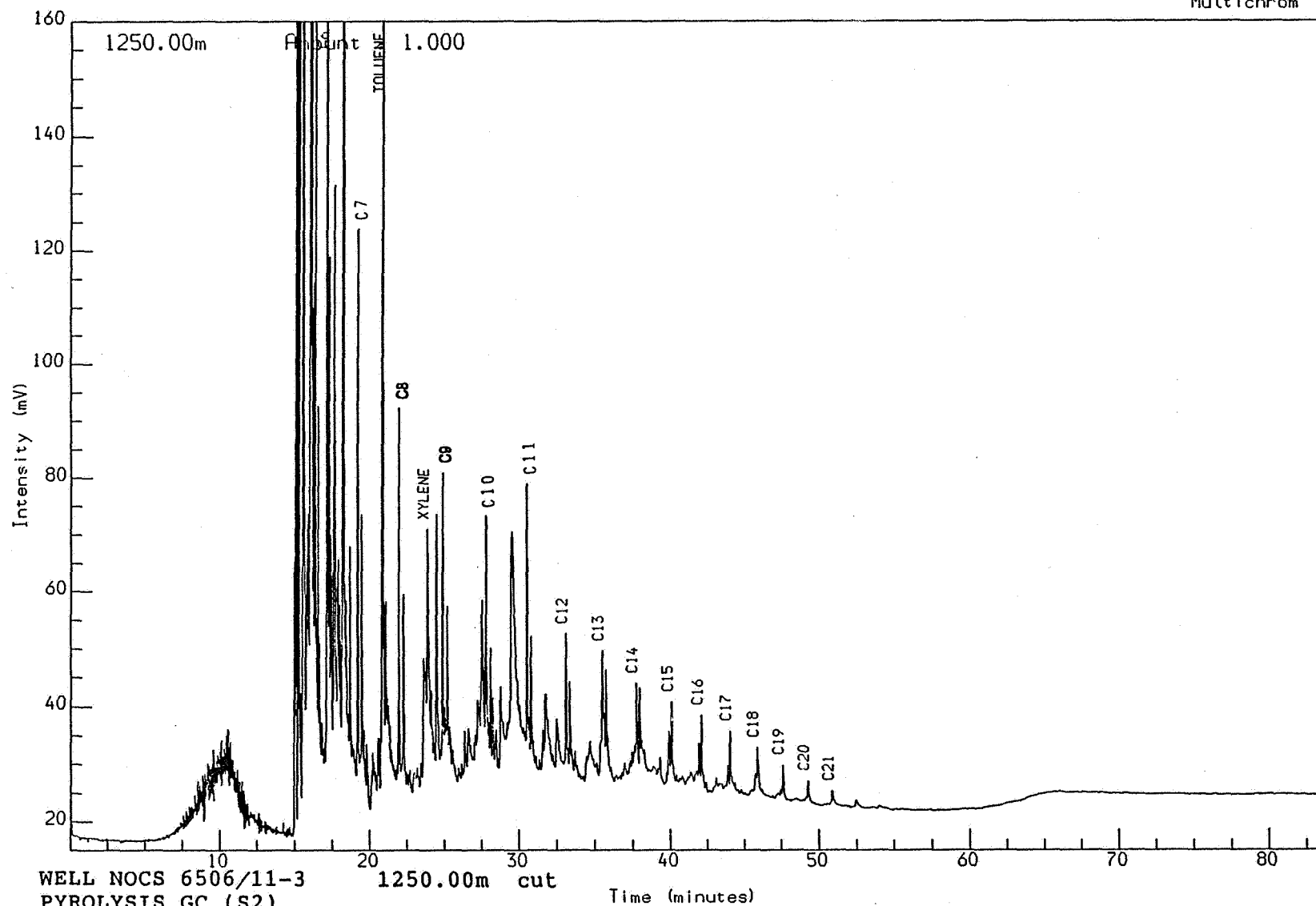
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [62018] 21 PH94A,5,1.

Multichrom



WELL NOCS 6506/11-3
PYROLYSIS GC (S2)
Slitst: 1t gy

1250.00m cut

Time (minutes)

Reported on 17-DEC-1992 at 09:29

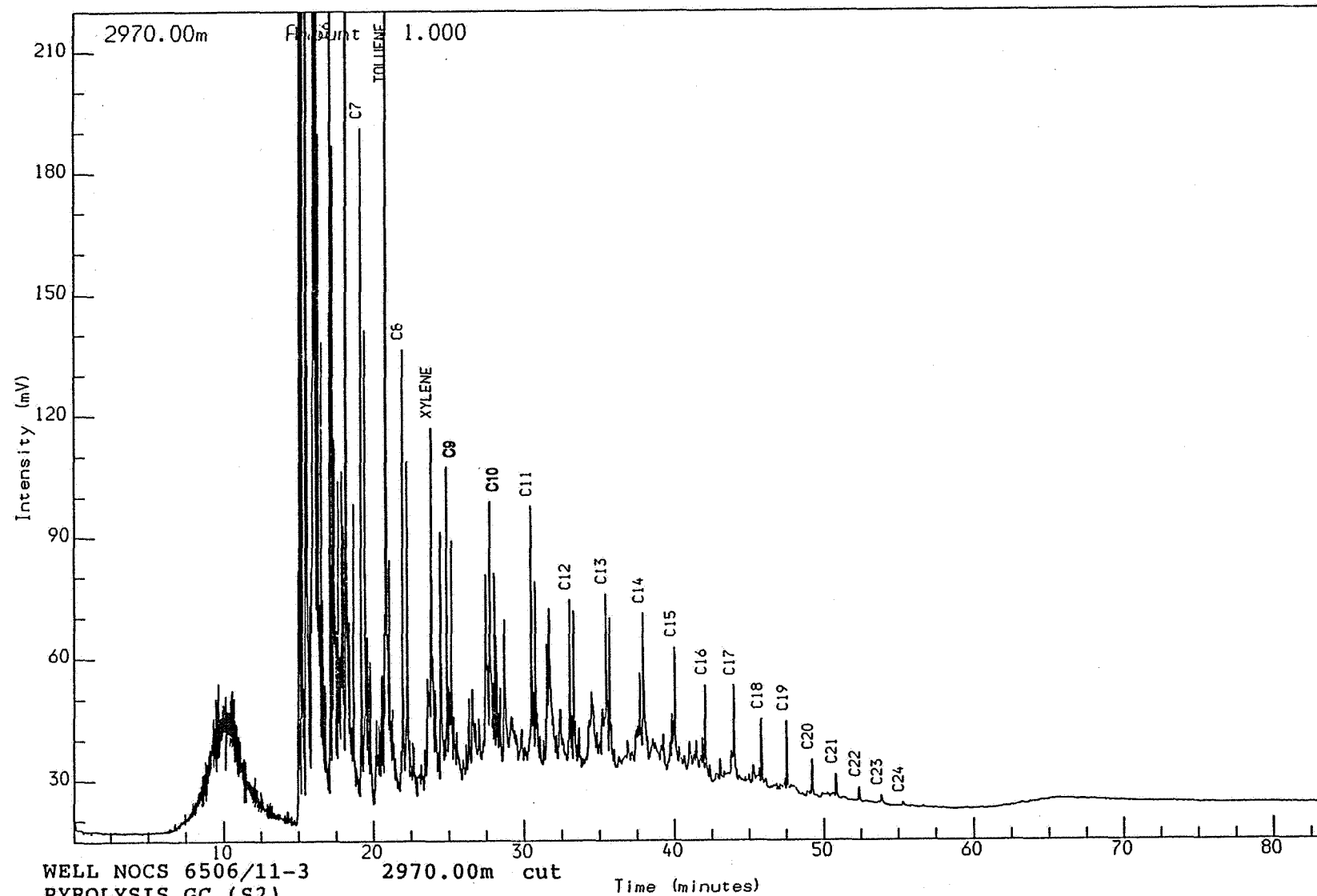
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [62018] 21 PH94A.6.1.

Multichrom



WELL NOCS 6506/11-3
PYROLYSIS GC (S2)
Sh/C1st: m gy to brn gy

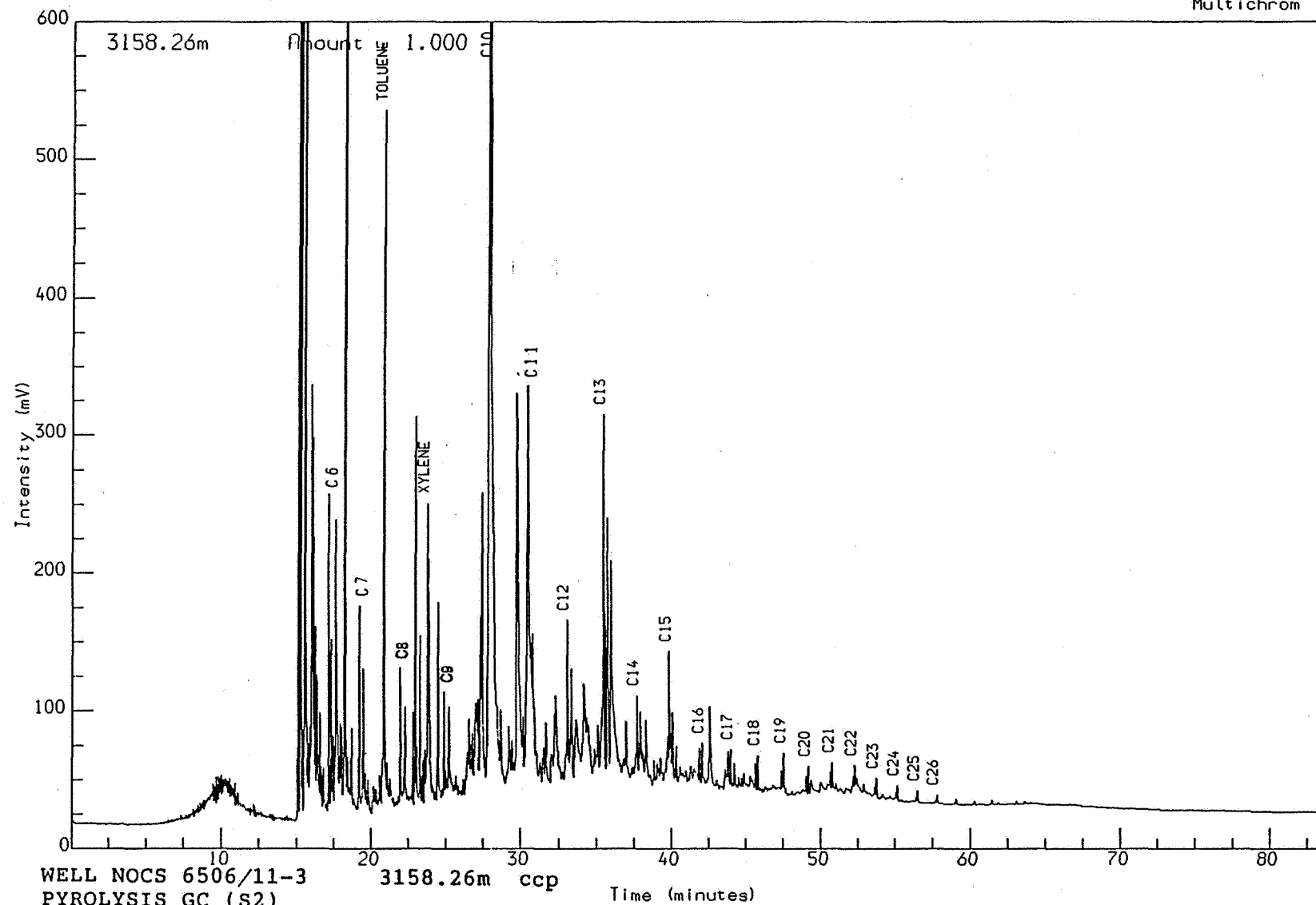
Reported on 17-DEC-1992 at 09:30

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [62018] 21 PH94B,4,1.

Multichrom



WELL NOCS 6506/11-3
PYROLYSIS GC (S2)
Sh/Clst: m gy

3158.26m ccp

Reported on 17-DEC-1992 at 11:52

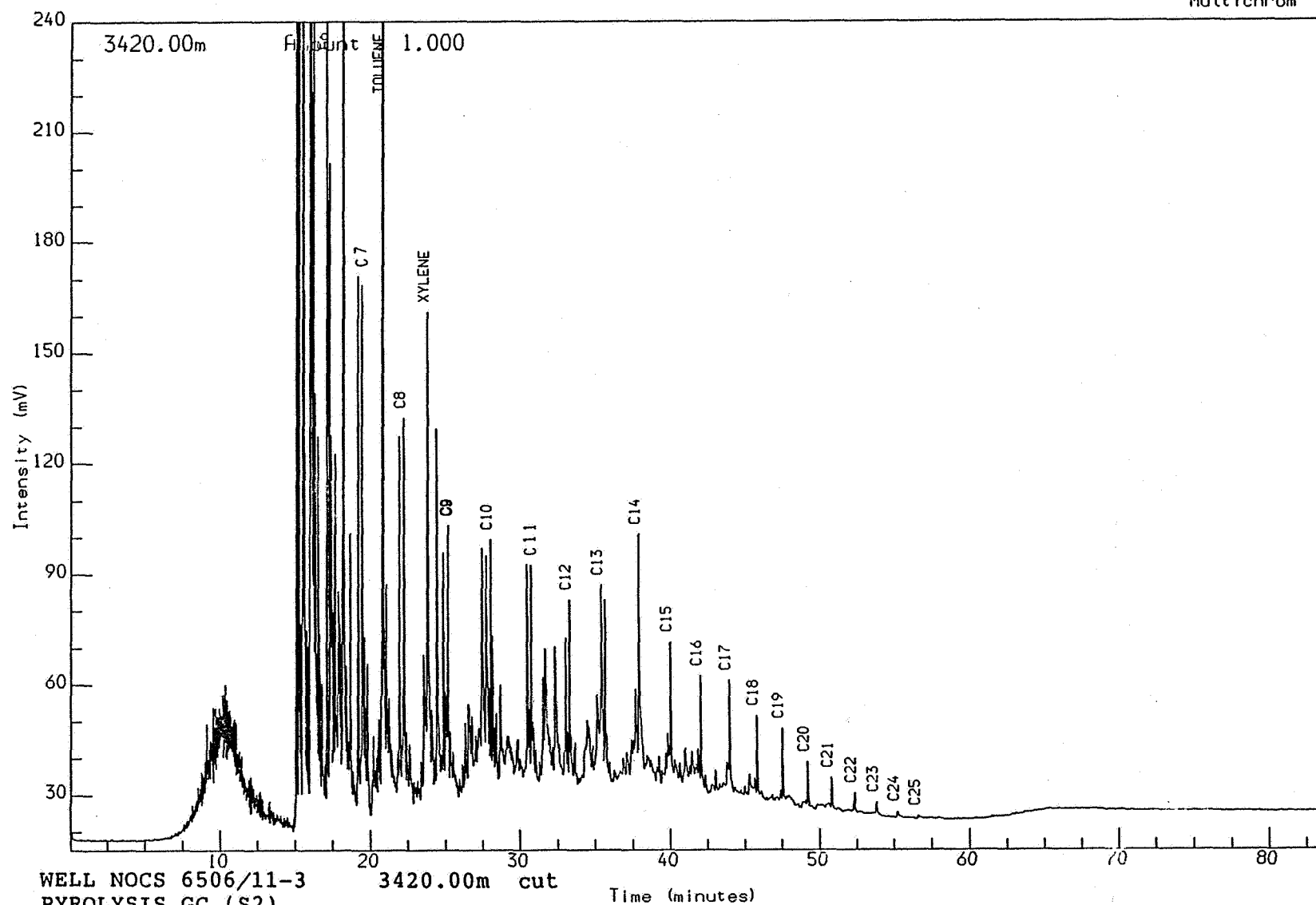
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [62018] 21 PH94A,7,1.

Multichrom



WELL NOCS 6506/11-3

PYROLYSIS GC (S2)

Sh/Clst: m gy to drk gy

Reported on 17-DEC-1992 at 09:54

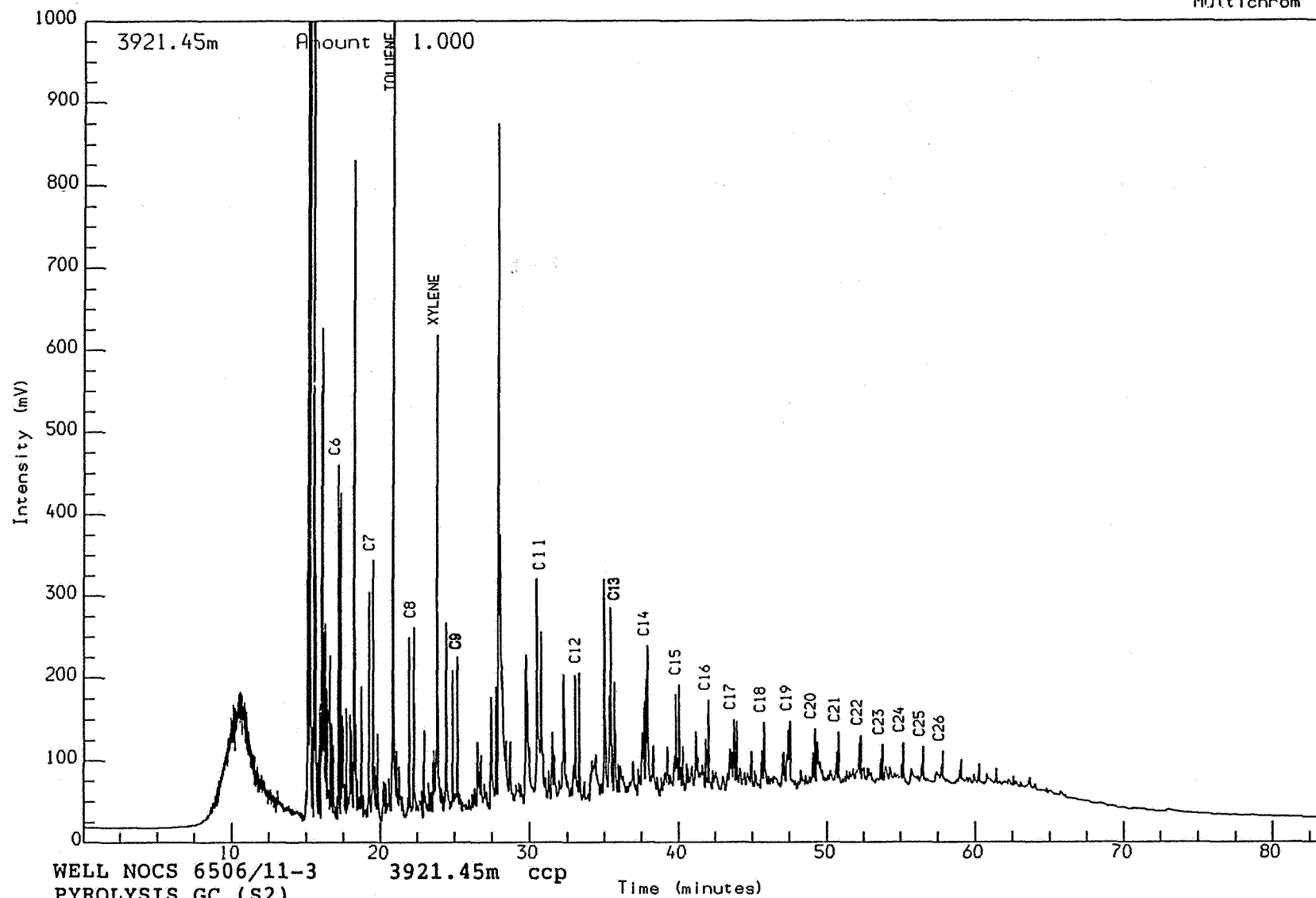
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [62018] 21 PH94B,5,1.

Multichrom



WELL NOCS 6506/11-3

PYROLYSIS GC (S2)

Sh/Clst: m gy to drk gy

3921.45m ccp

Time (minutes)

Reported on 17-DEC-1992 at 09:55

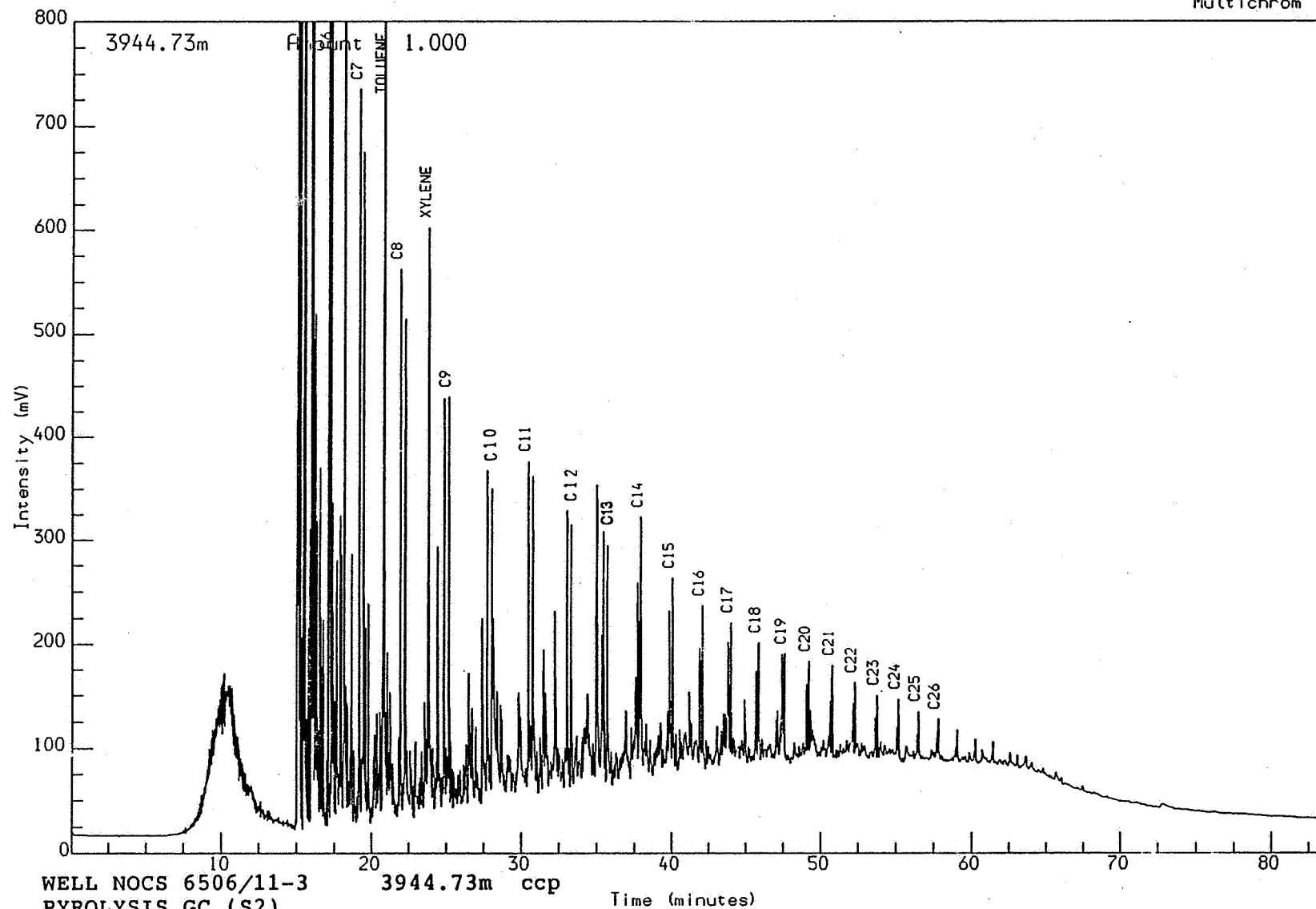
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [62018] 21 PH94B,7,1.

Multichrom



WELL NOCS 6506/11-3

PYROLYSIS GC (S2)

Sh/Clst: m gy to drk gy

3944.73m ccp

Time (minutes)

Reported on 17-DEC-1992 at 09:56

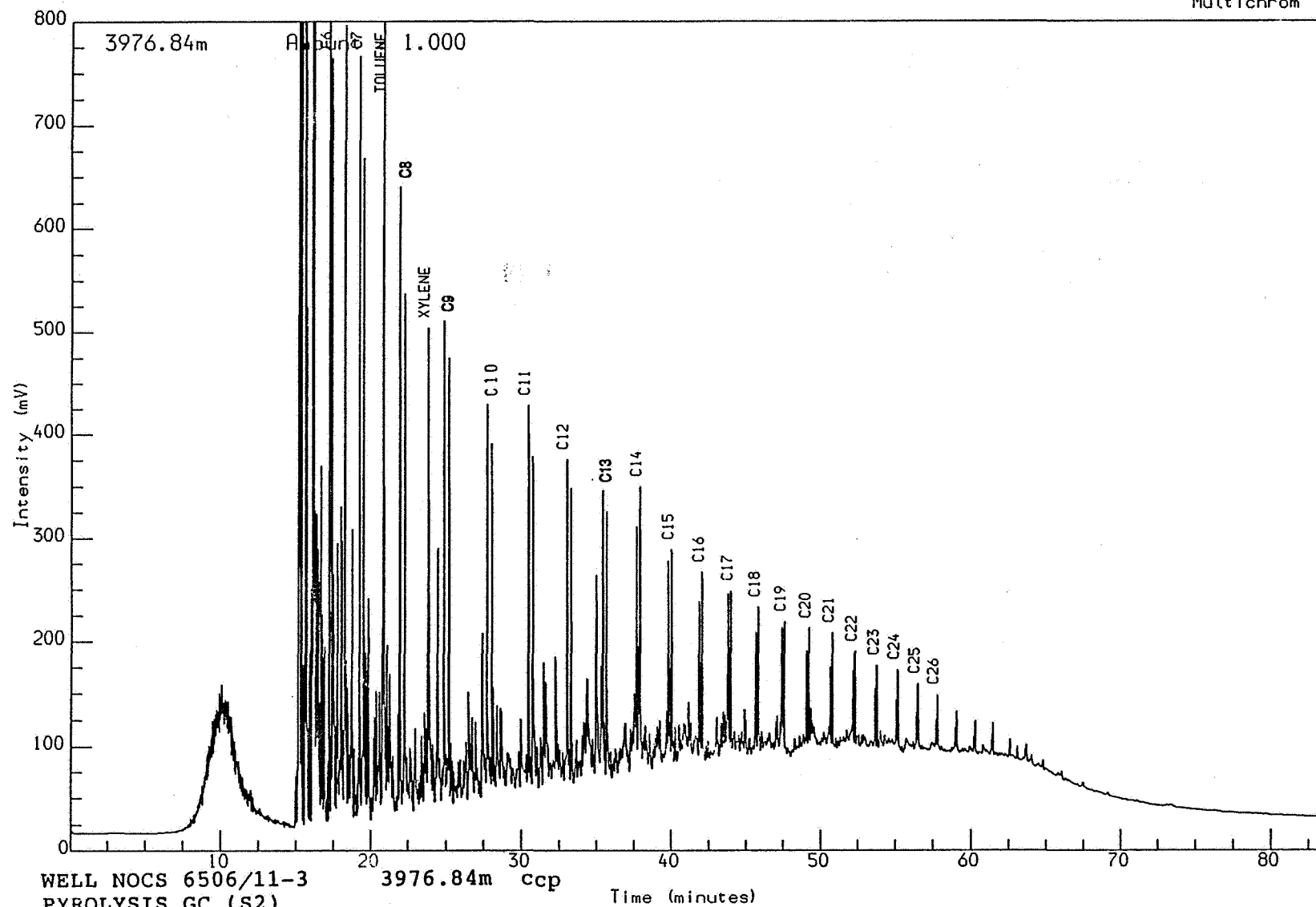
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [62018] 21 PH94B,6,1.

Multichrom



WELL NOCS 6506/11-3
PYROLYSIS GC (S2)
Sh/Clst: m gy to drk gy

3976.84m ccp

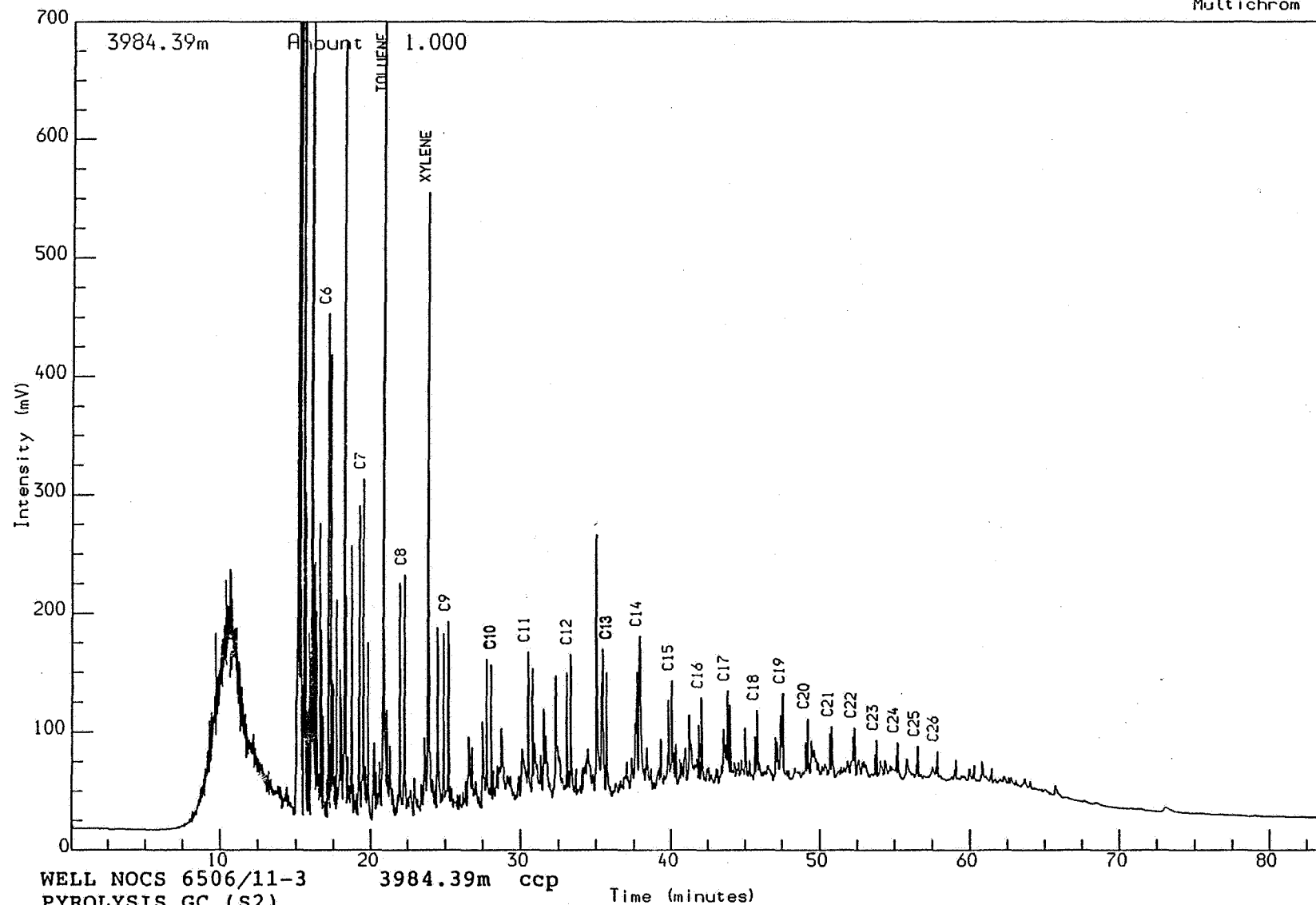
Time (minutes)

Reported on 17-DEC-1992 at 09:57

Schlumberger

GECO-PRAKLA

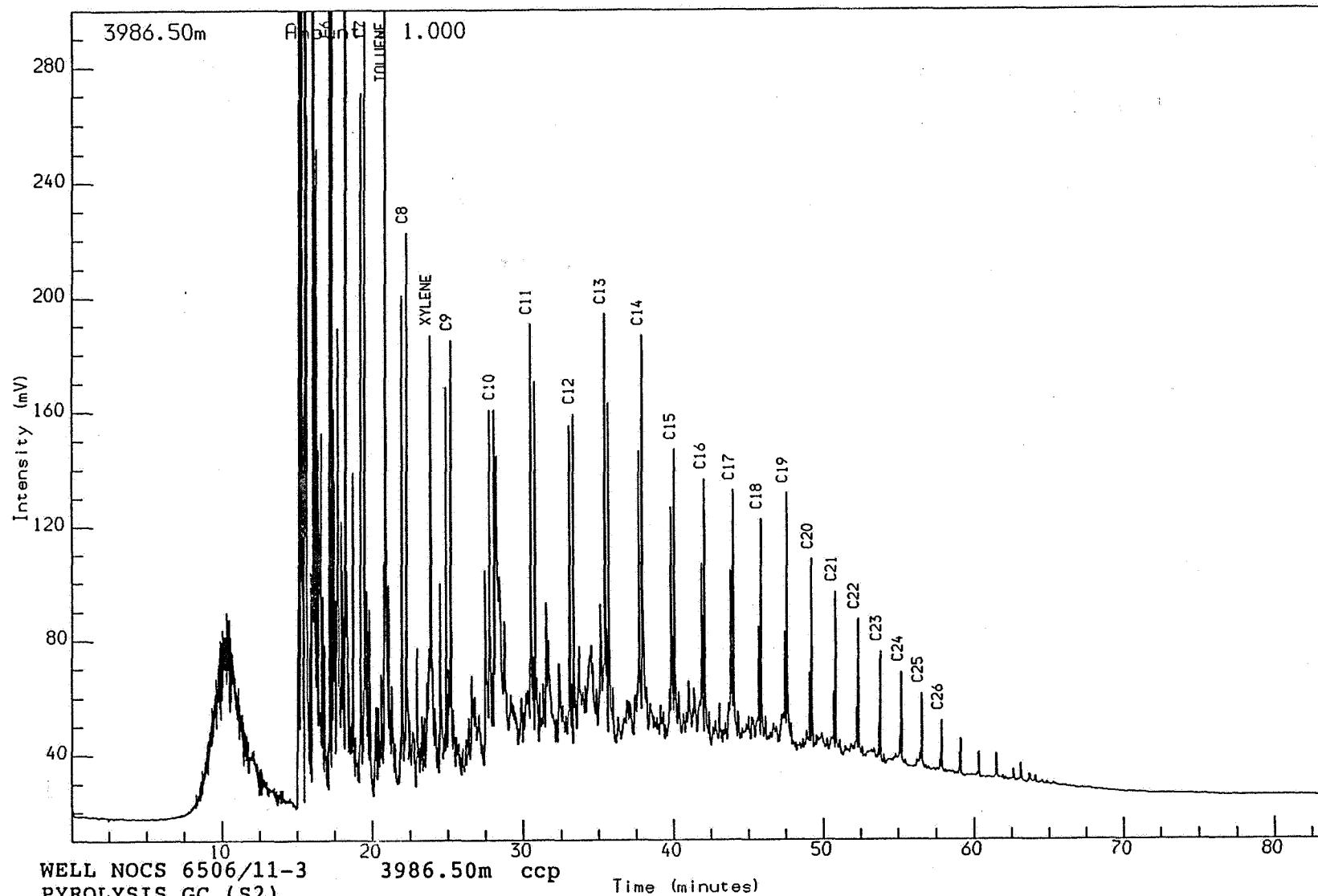
GEOLAB NOR



Reported on 17-DEC-1992 at 09:59

Analysis Name : [62018] 21 PH94B,2,1.

Multichrom



WELL NOCS 6506/11-3

PYROLYSIS GC (S2)

Sh/Clst: drk gy

3986.50m ccp

Time (minutes)

Reported on 17-DEC-1992 at 10:01

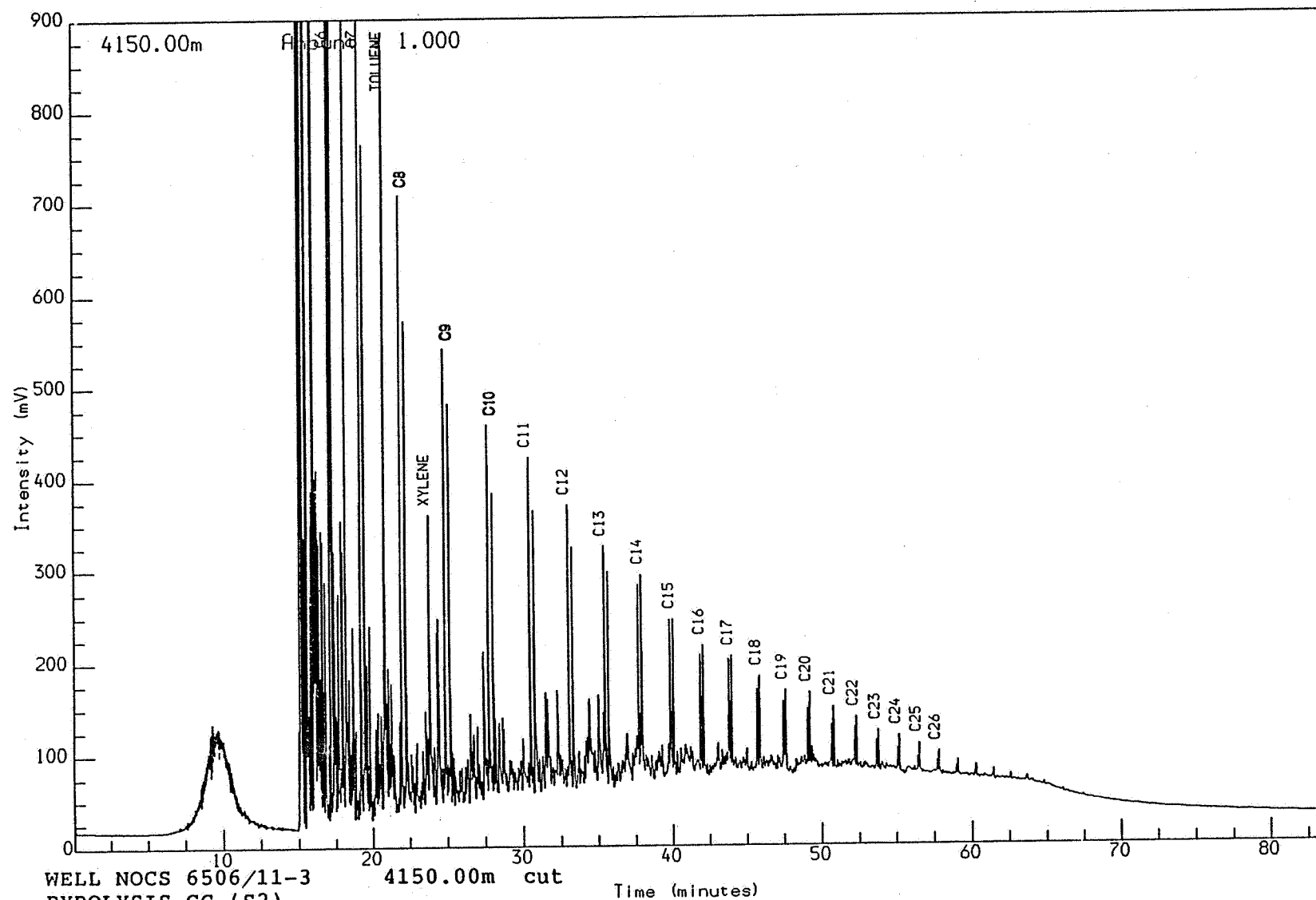
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [62018] 21 PH94B,8,1.

Multichrom



WELL NOCS 6506/11-3

PYROLYSIS GC (S2)

Sh/Clst: m gy to drk gy to dsk y brn

Reported on 17-DEC-1992 at 10:02

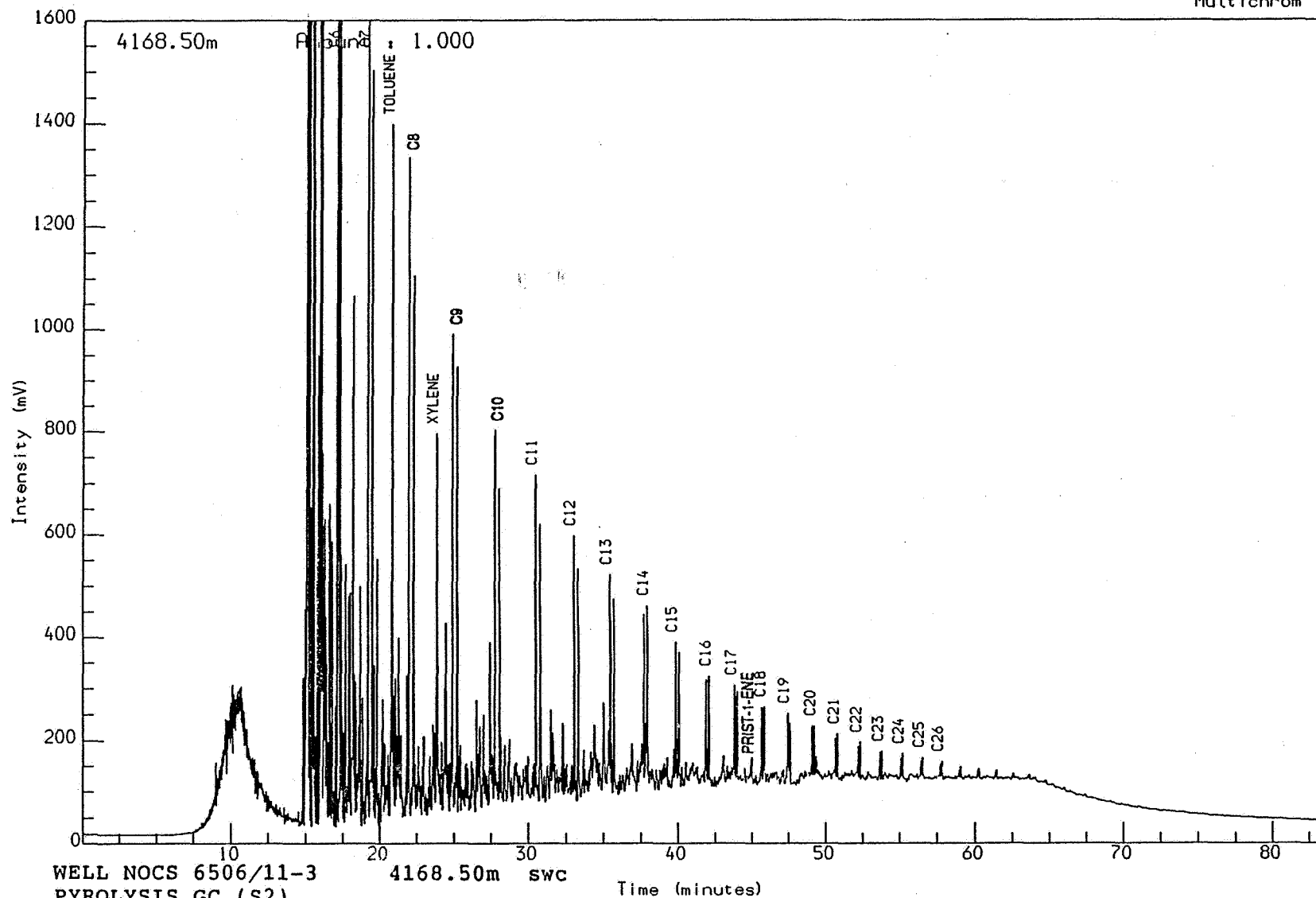
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [62018] 21 PH94B,9,1.

Multichrom



WELL NOCS 6506/11-3

PYROLYSIS GC (S2)

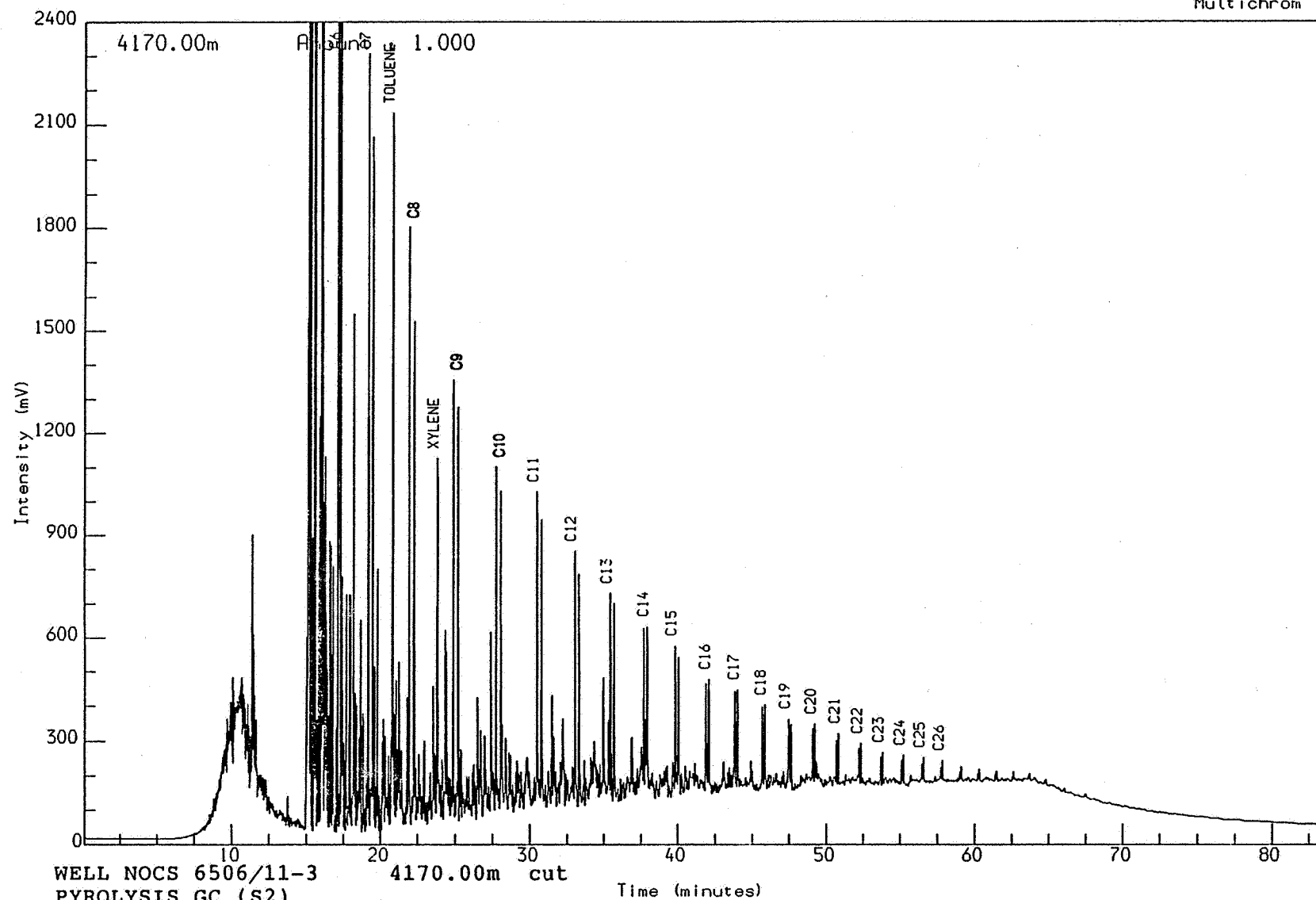
Sh/Clst: dsk y brn to brn blk

Reported on 17-DEC-1992 at 10:03

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 6506/11-3

PYROLYSIS GC (S2)

Sh/C1st: dsk y brn to brn blk

Reported on 17-DEC-1992 at 10:05

Schlumberger

GECO-PRAKLA

GEOLAB NOR

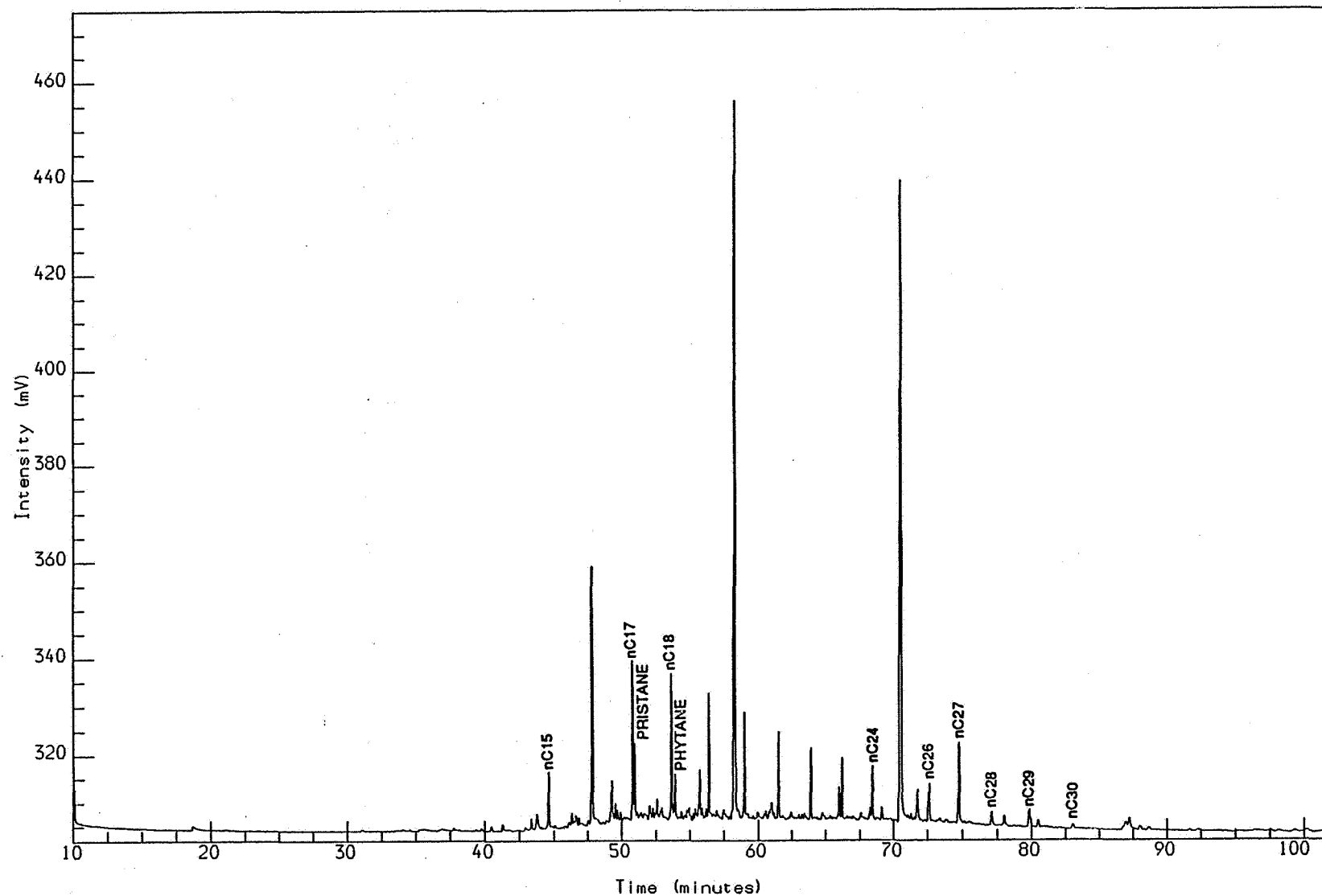
Appendix 3

Gas Chromatograms

- I Whole Extract Chromatograms (FID & FPD)**
- II Saturated Fraction Chromatograms (FID)**
- III Aromatic Fraction Chromatograms (FID& FPD)**

Analysis Name : [60218] 31 W01250B.1.1.

Multichrom



WELL NOCS 6506/11-3 1250.00m
WHOLE EOM GC (FID)

Reported on 15-DEC-1992 at 13:06

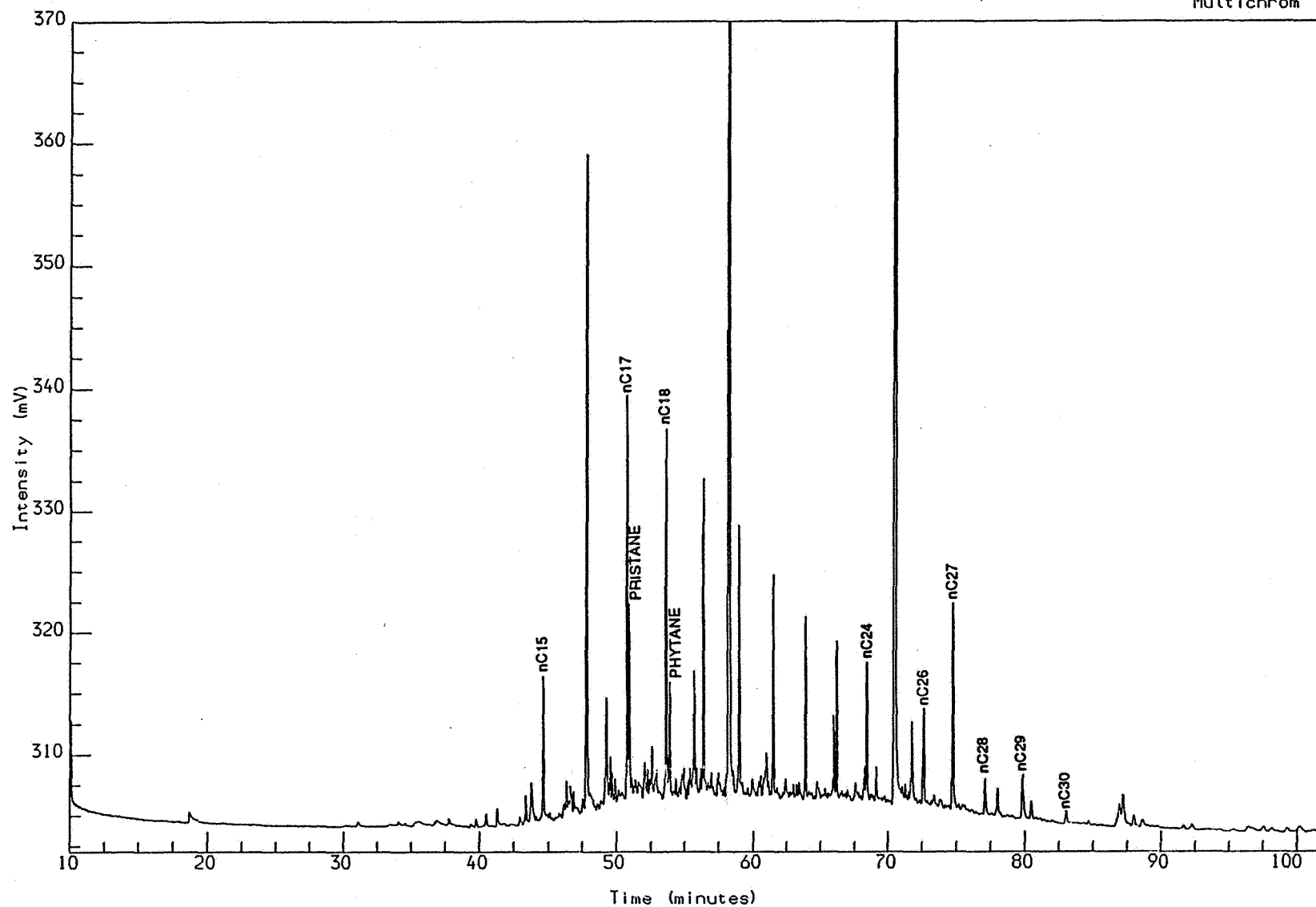
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W01250B,1,1.

Multichrom



WELL NOCS 6506/11-3 1250.00m
WHOLE EDM GC (FID)

Reported on 18-DEC-1992 at 11:22

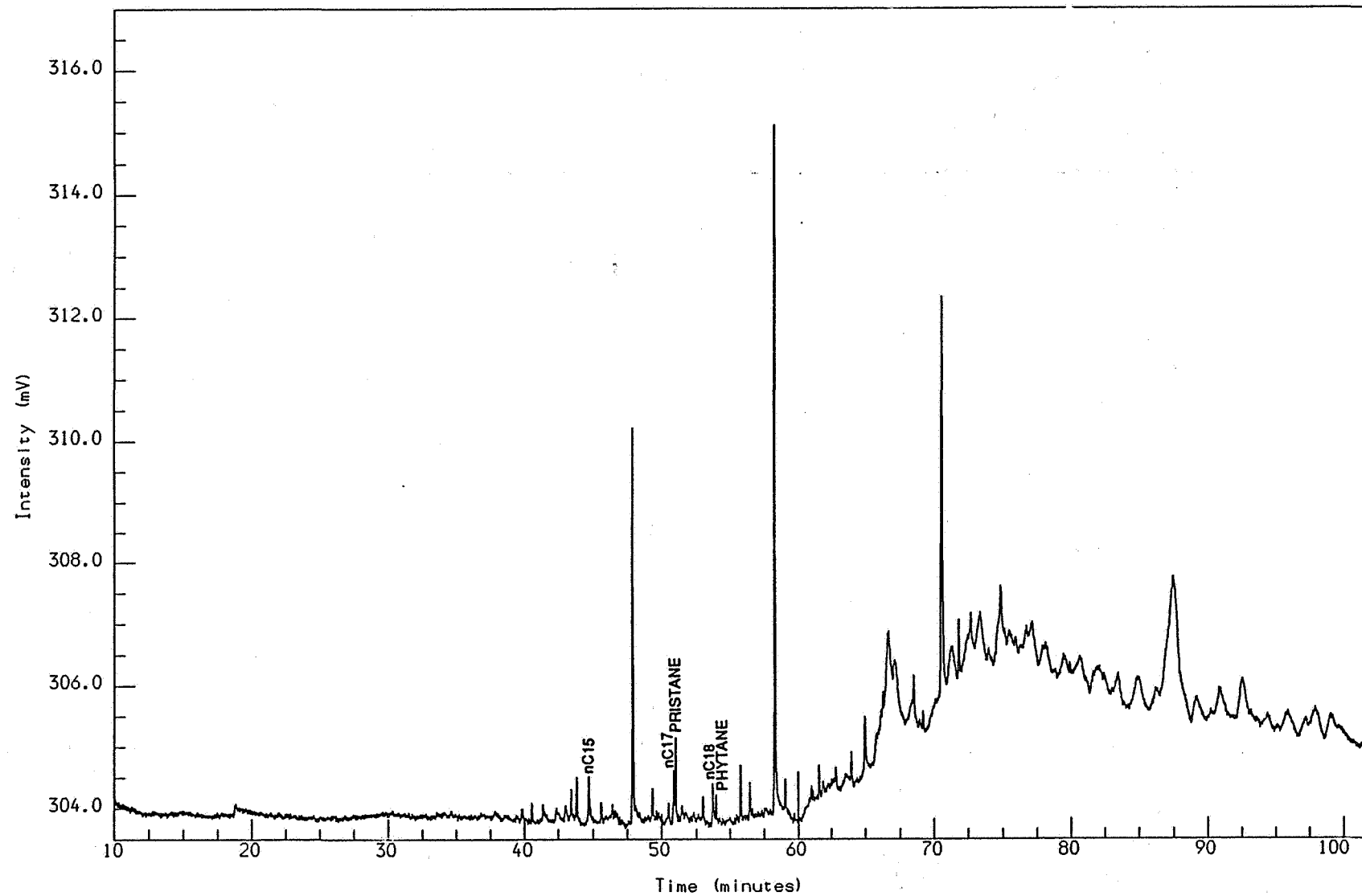
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 31 W02970,1,1.

Multichrom



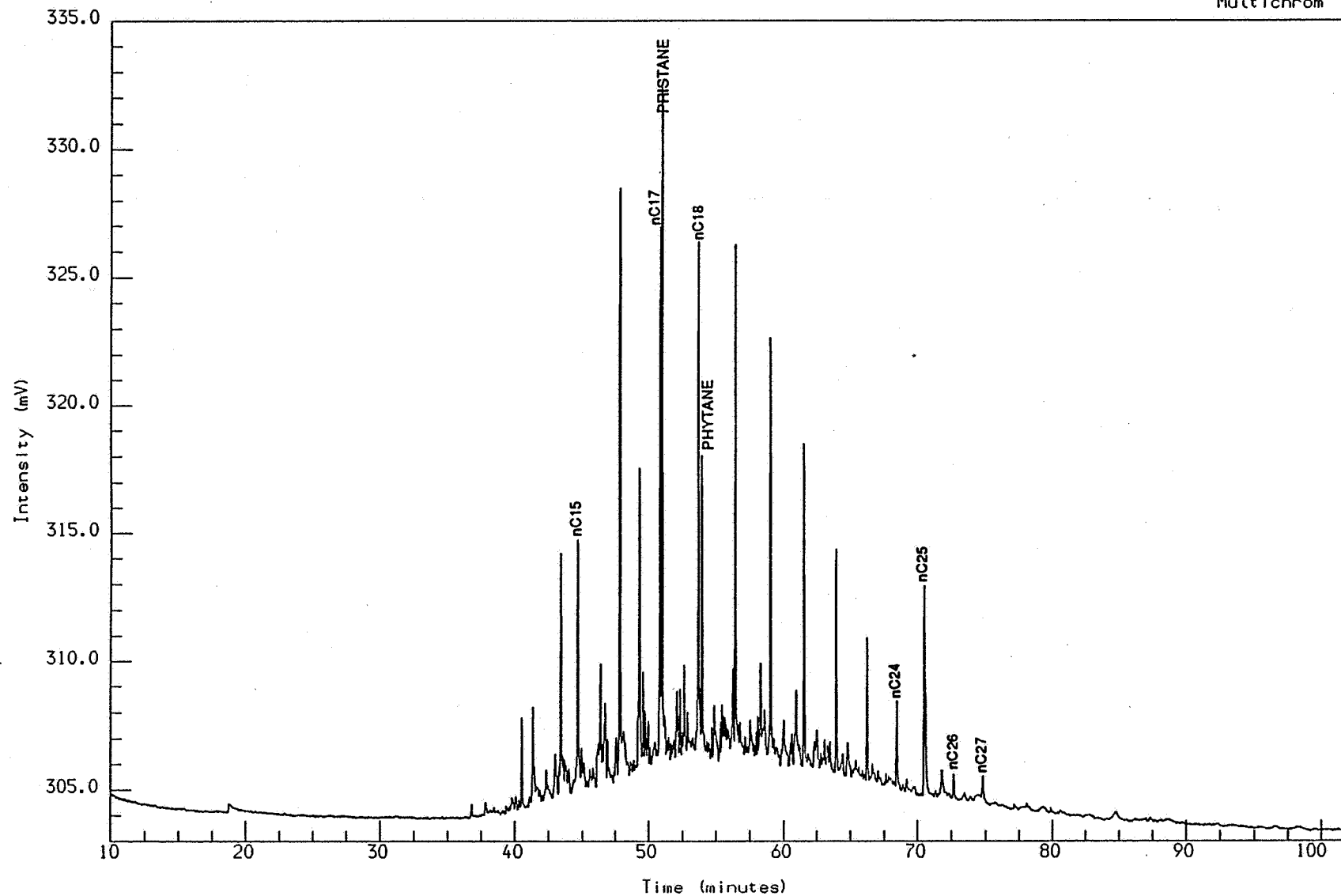
WELL NOCS 6506/11-3 2970.00m
WHOLE EDM GC (FID)

Reported on 15-DEC-1992 at 08:21

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 6506/11-3 3138.50m
WHOLE EOM GC (FID)

Reported on 15-DEC-1992 at 13:50

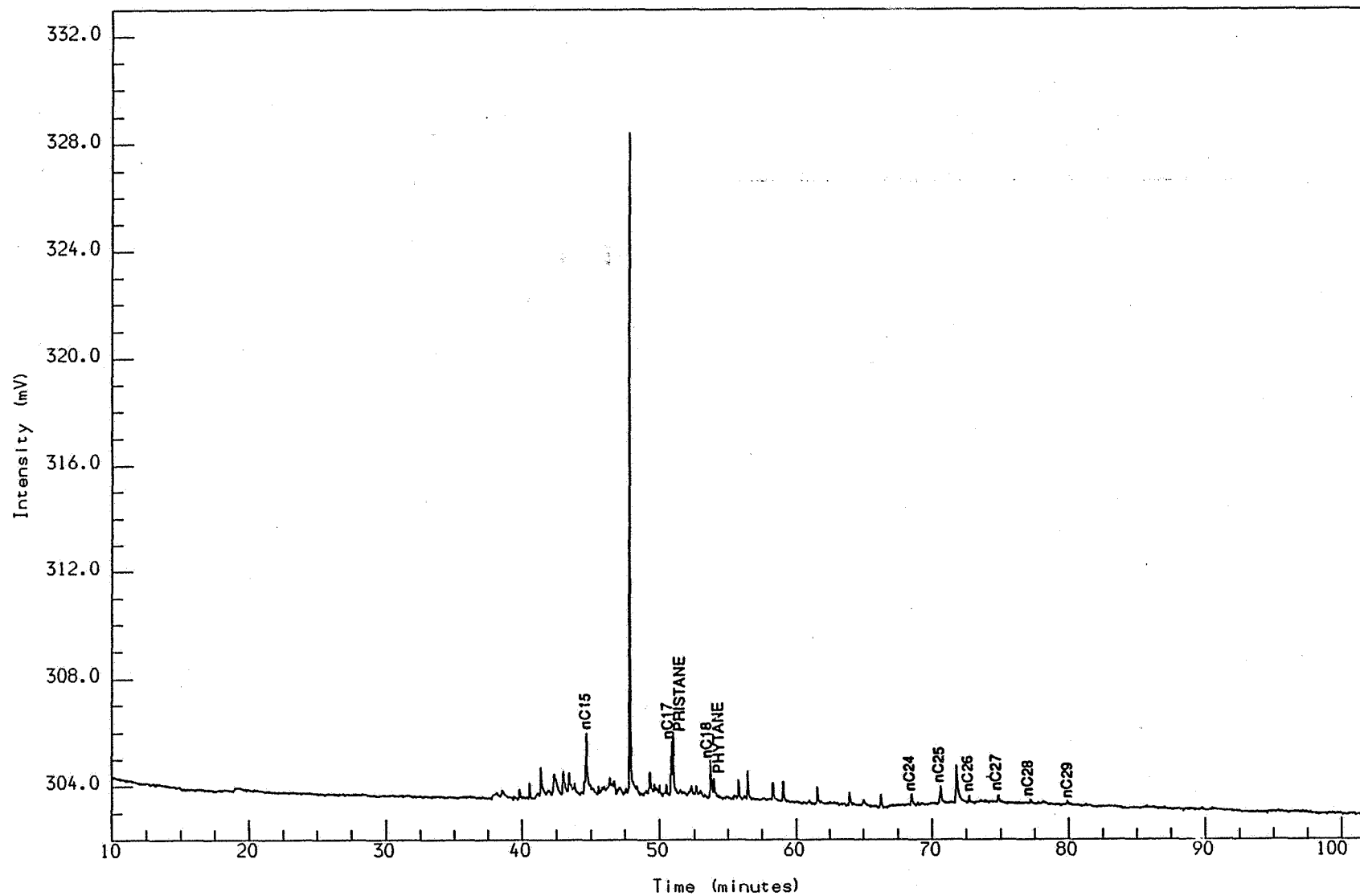
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W03420,1,1.

Multichrom



WELL NOCS 4506/11-3 3420.00m
WHOLE EOM GC (FID)

Reported on 16-DEC-1992 at 15:31

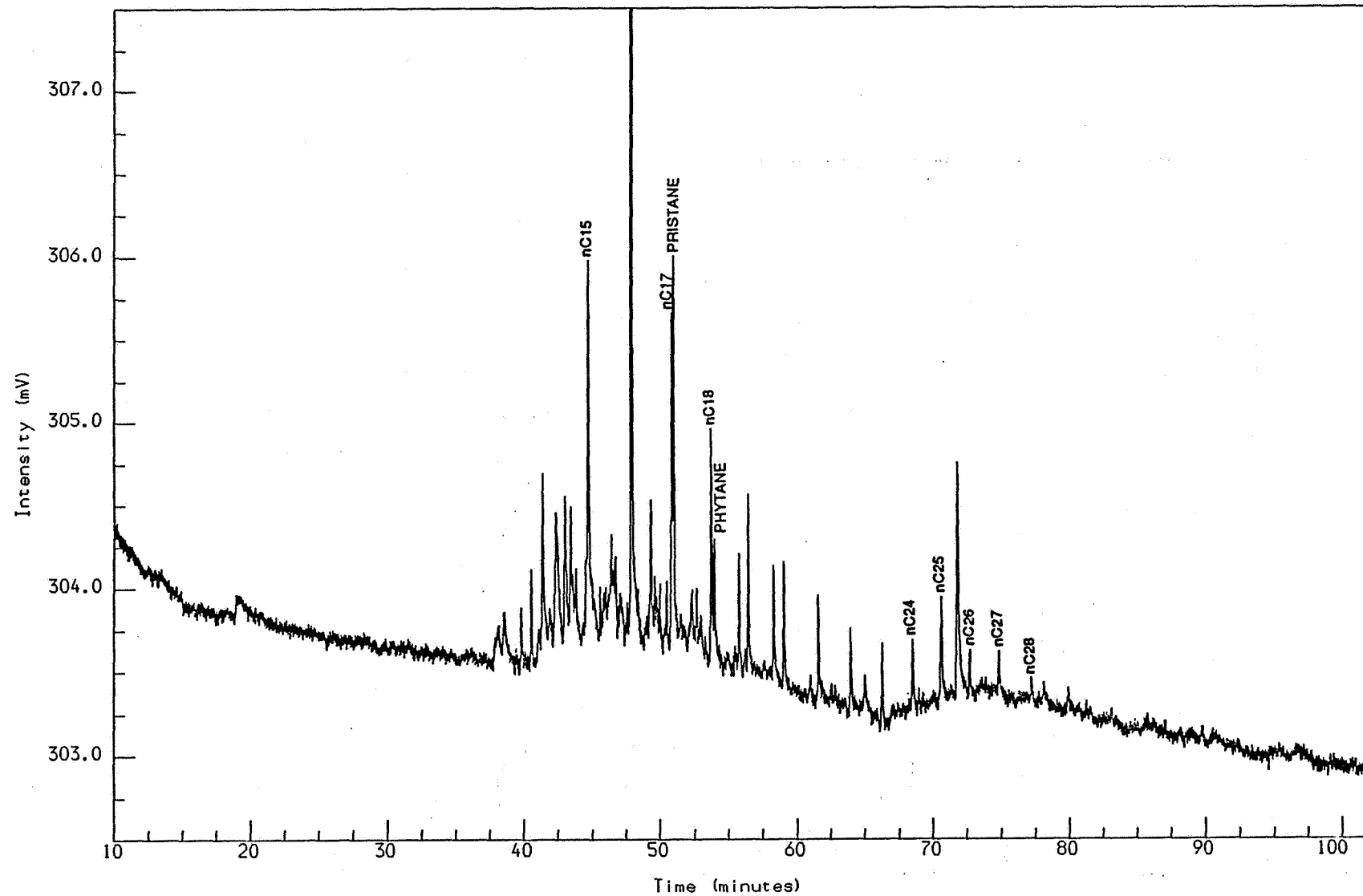
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W03420.1.1.

Multichrom



WELL NOCS 6506/11-3 3420.00m
WHOLE EDM GC (FID)

Reported on 18-DEC-1992 at 11:25

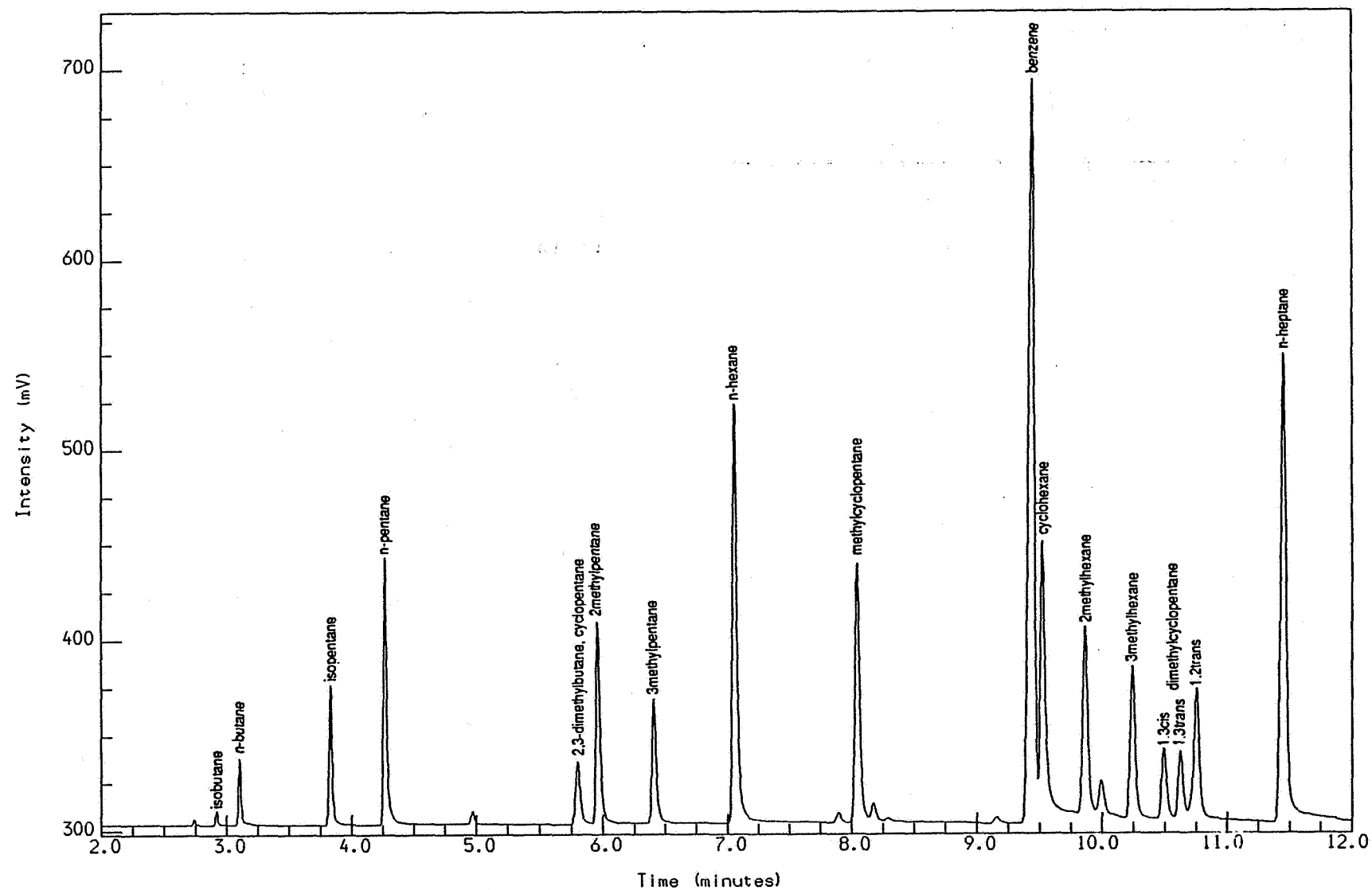
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W06506113,1,1.

Multichrom



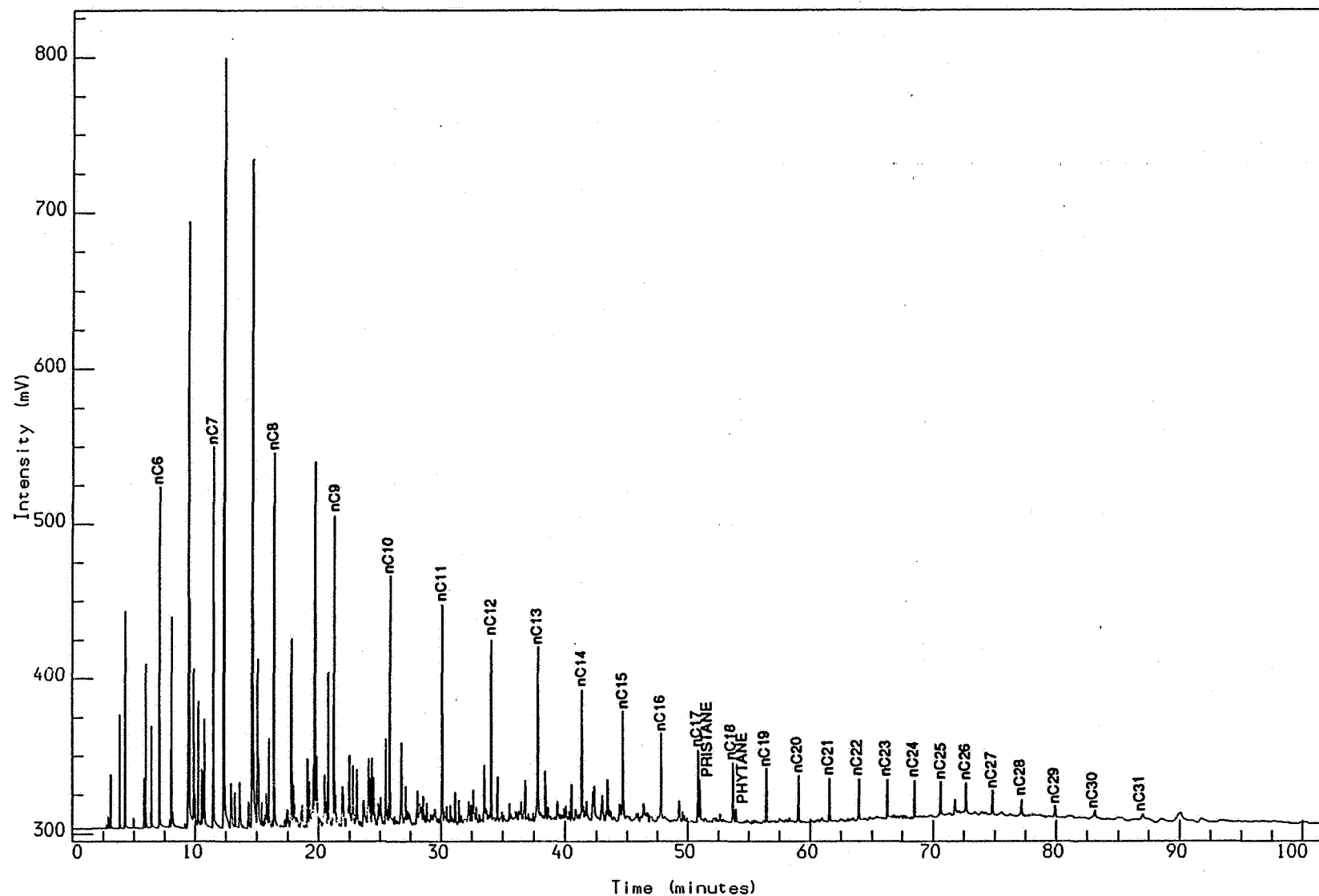
WELL 6506/11-3 3937.00m RFT
WHOLE OIL GC (FID)
Oil film on top of the sample

Reported on 7-DEC-1992 at 14:40

Schlumberger

GECO-PRAKLA

GEOLAB NOR

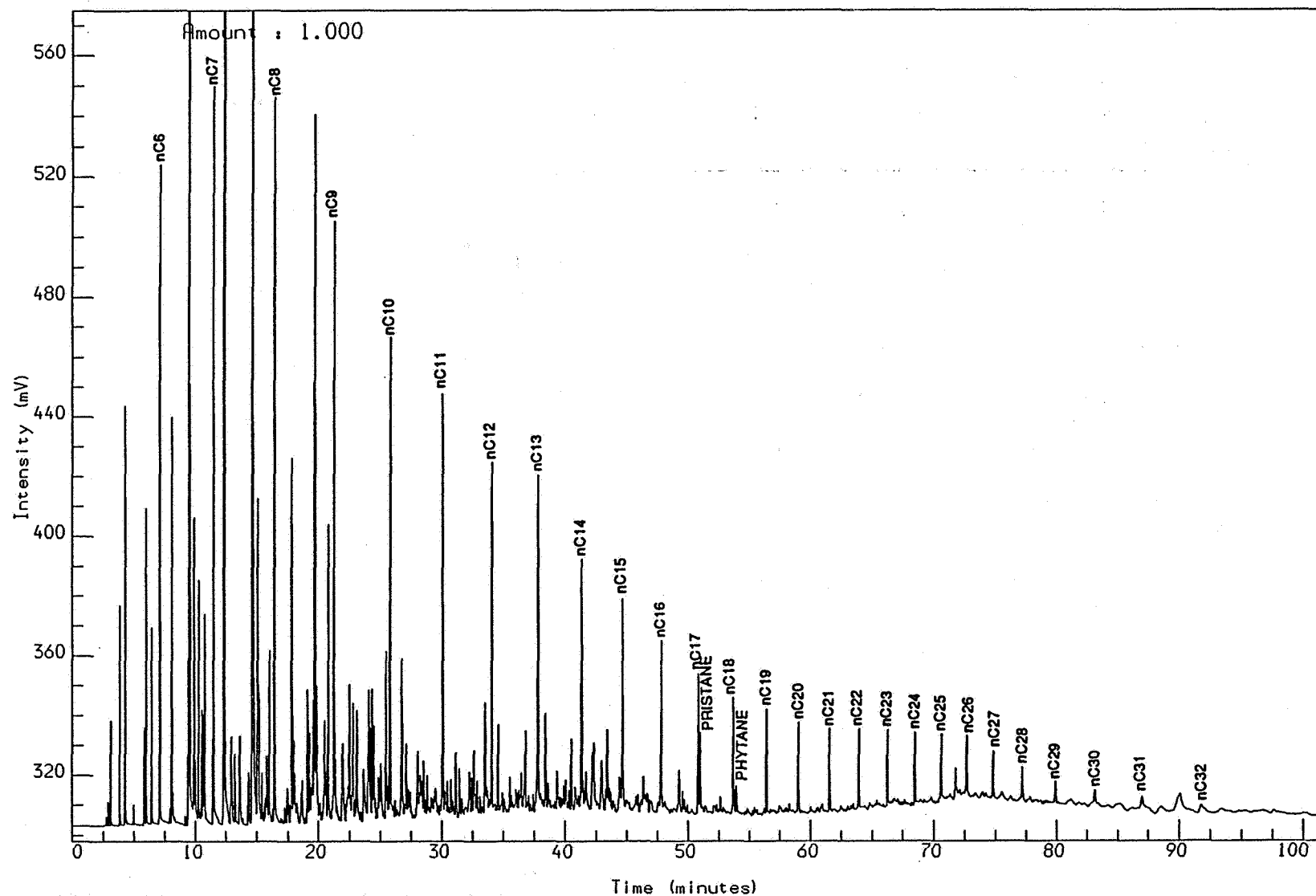


WELL 6506/11-3 3937.00m RFT
 WHOLE OIL GC (FID)
 Oil film on top of the sample

Reported on 7-DEC-1992 at 14:25

Analysis Name : [60218] 31 W06506113,1,1.

Multichrom



WELL 6506/11-3 3937.00m RFT
WHOLE OIL GC (FID)
Oil film on top of the sample

Reported on 7-DEC-1992 at 14:27

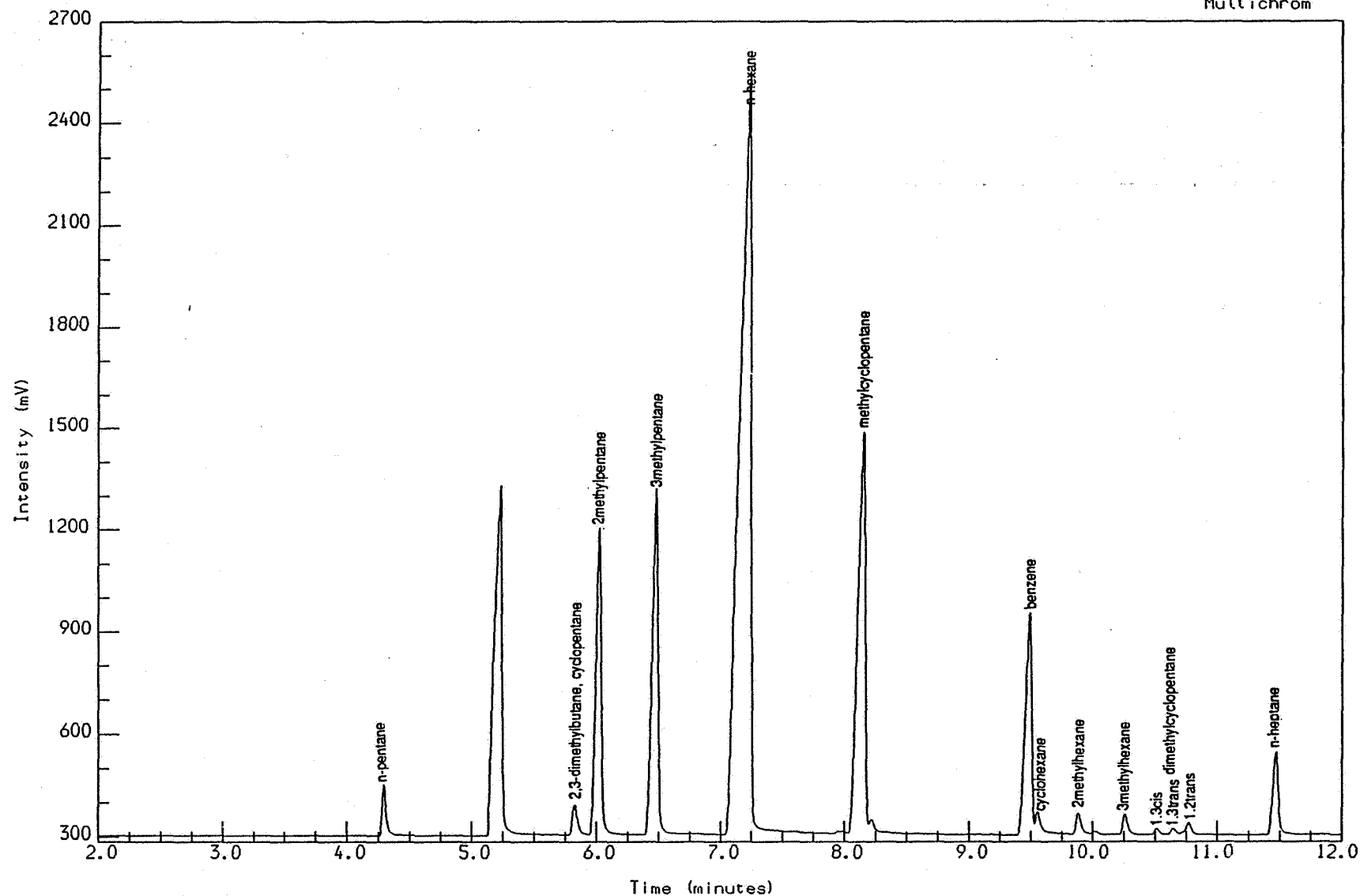
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W06506113B,1,1.

Multichrom



WELL 6506/11-3 3937.00m RFT
WHOLE OIL GC (FID)
Extracted sample

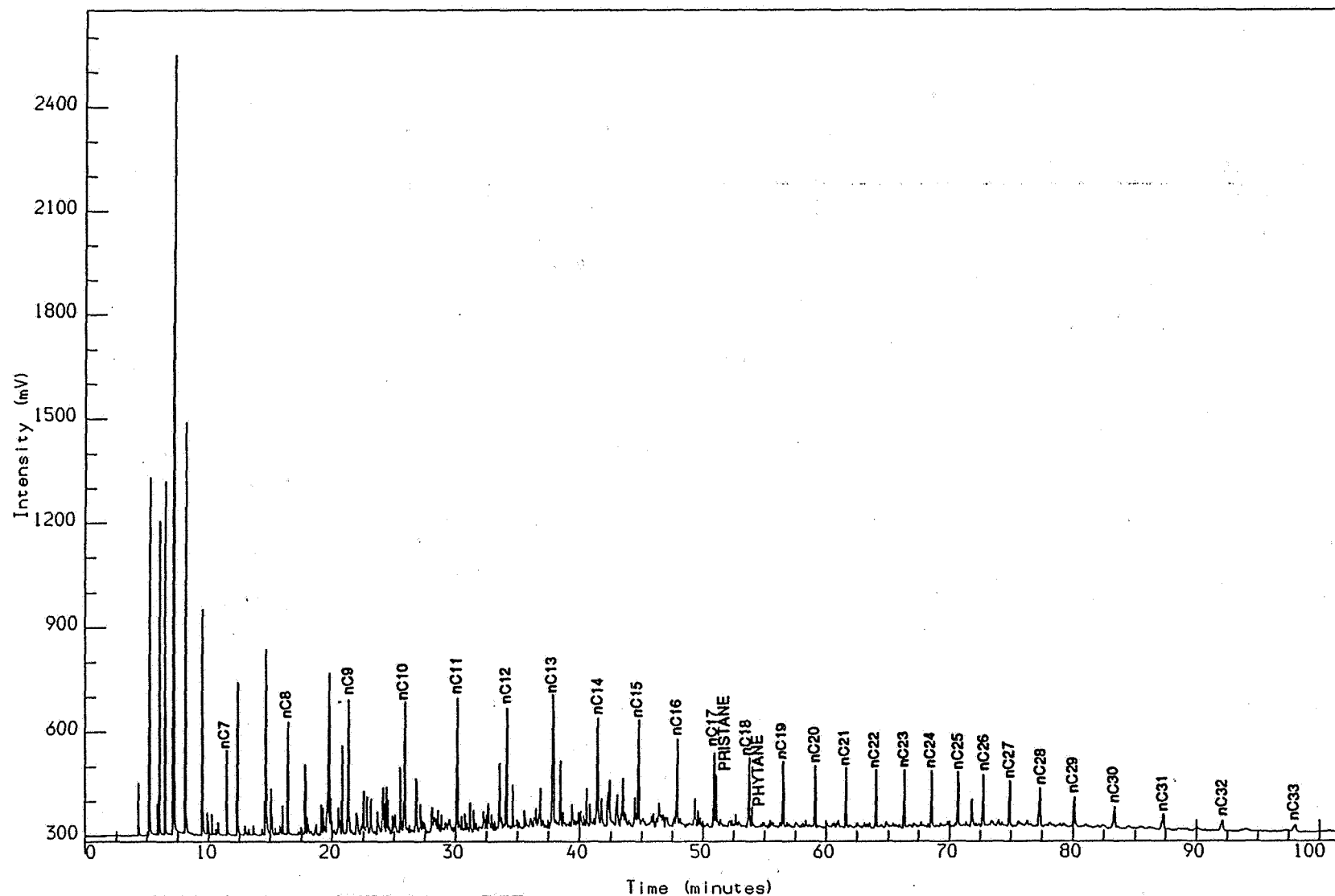
Reported on 9-DEC-1992 at 14:16

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W06506113B,1,1.

Multichrom



WELL 6506/11-3 3937.00m RFT
WHOLE OIL GC (FID)
Extracted sample

Reported on 9-DEC-1992 at 13:39

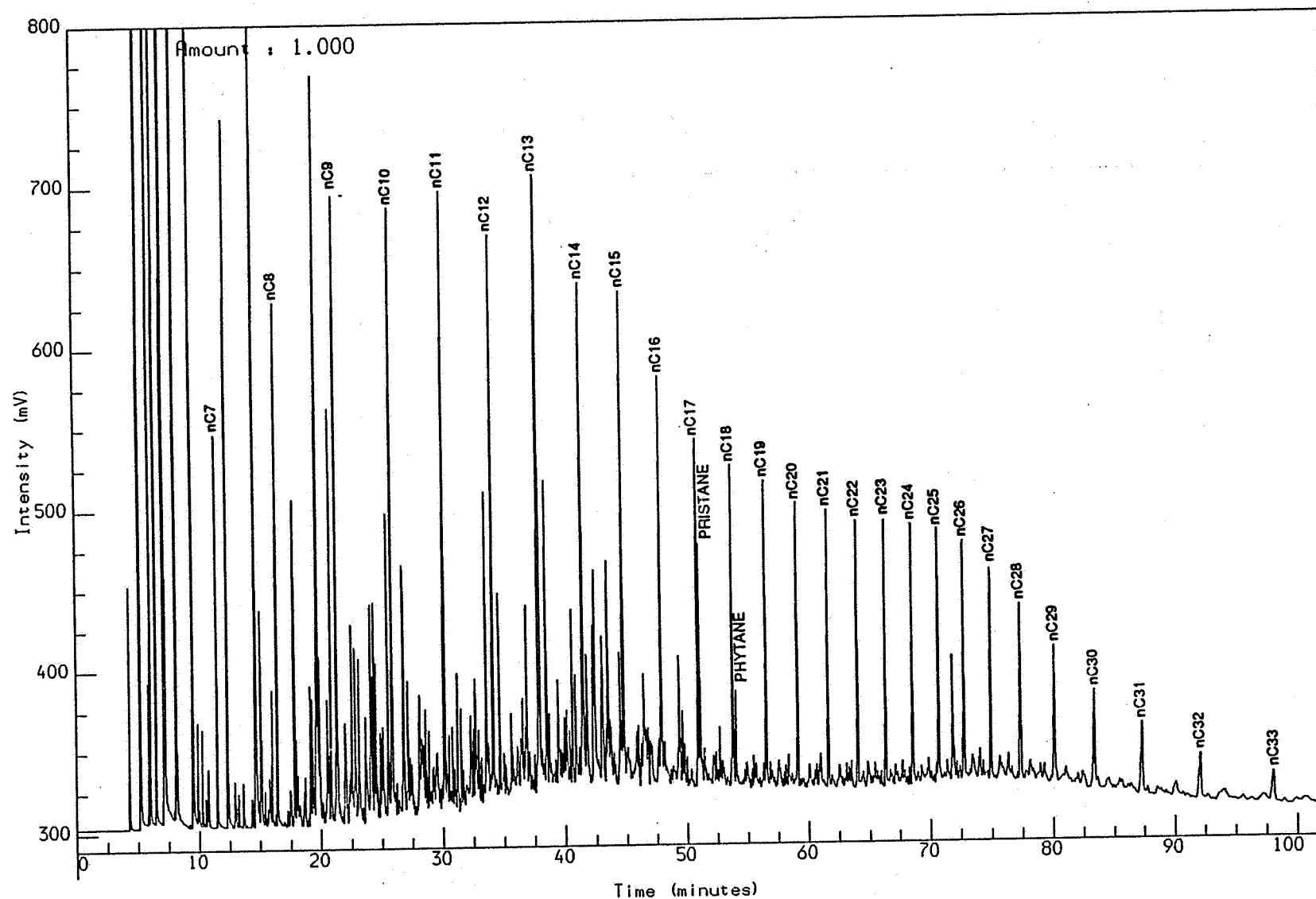
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W06506113B,1,1.

Multichrom



WELL 6506/11-3 3937.00m RFT
WHOLE OIL GC (FID)
Extracted sample

Reported on 9-DEC-1992 at 14:21

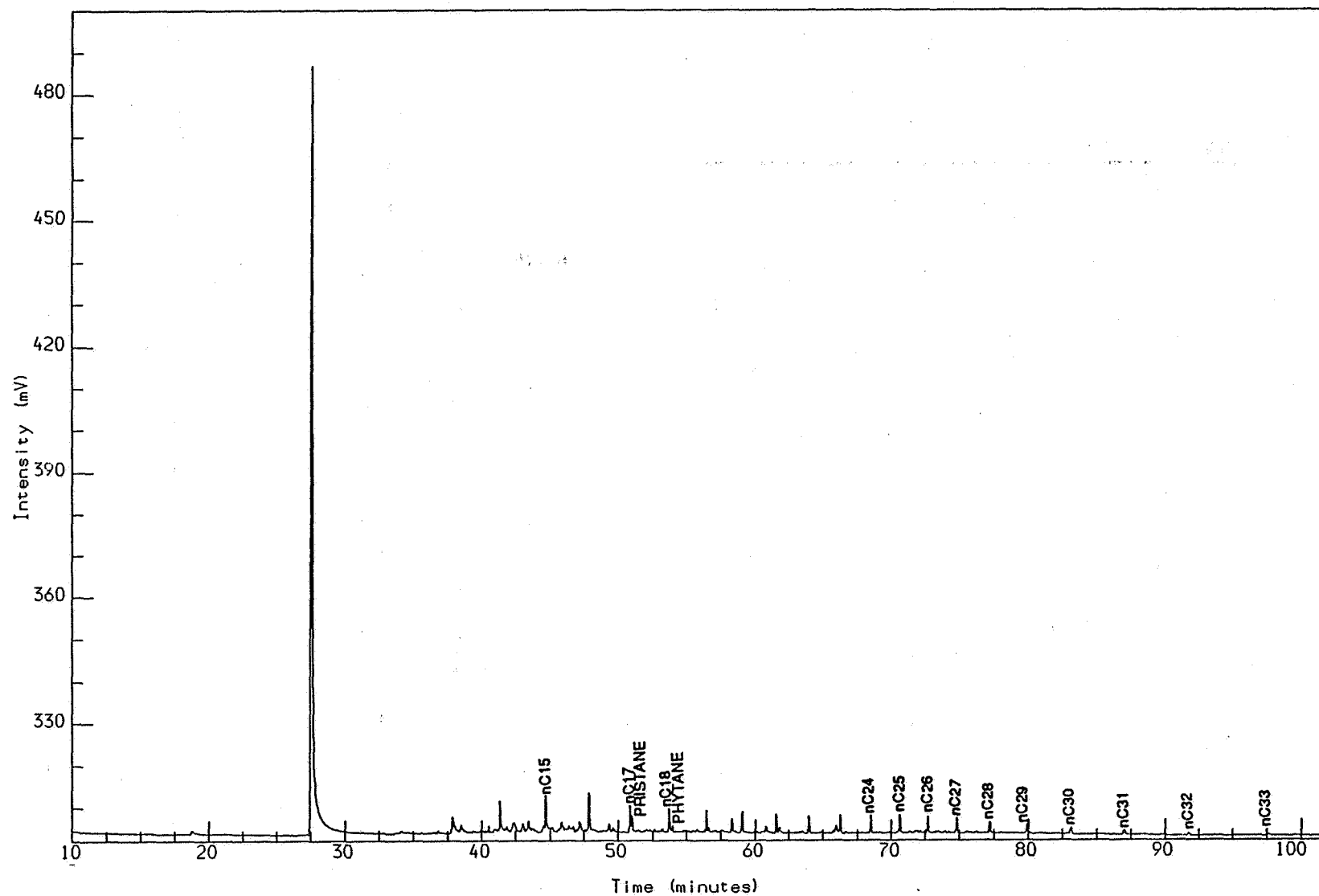
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 31 W0393811.1.1.

Multichrom



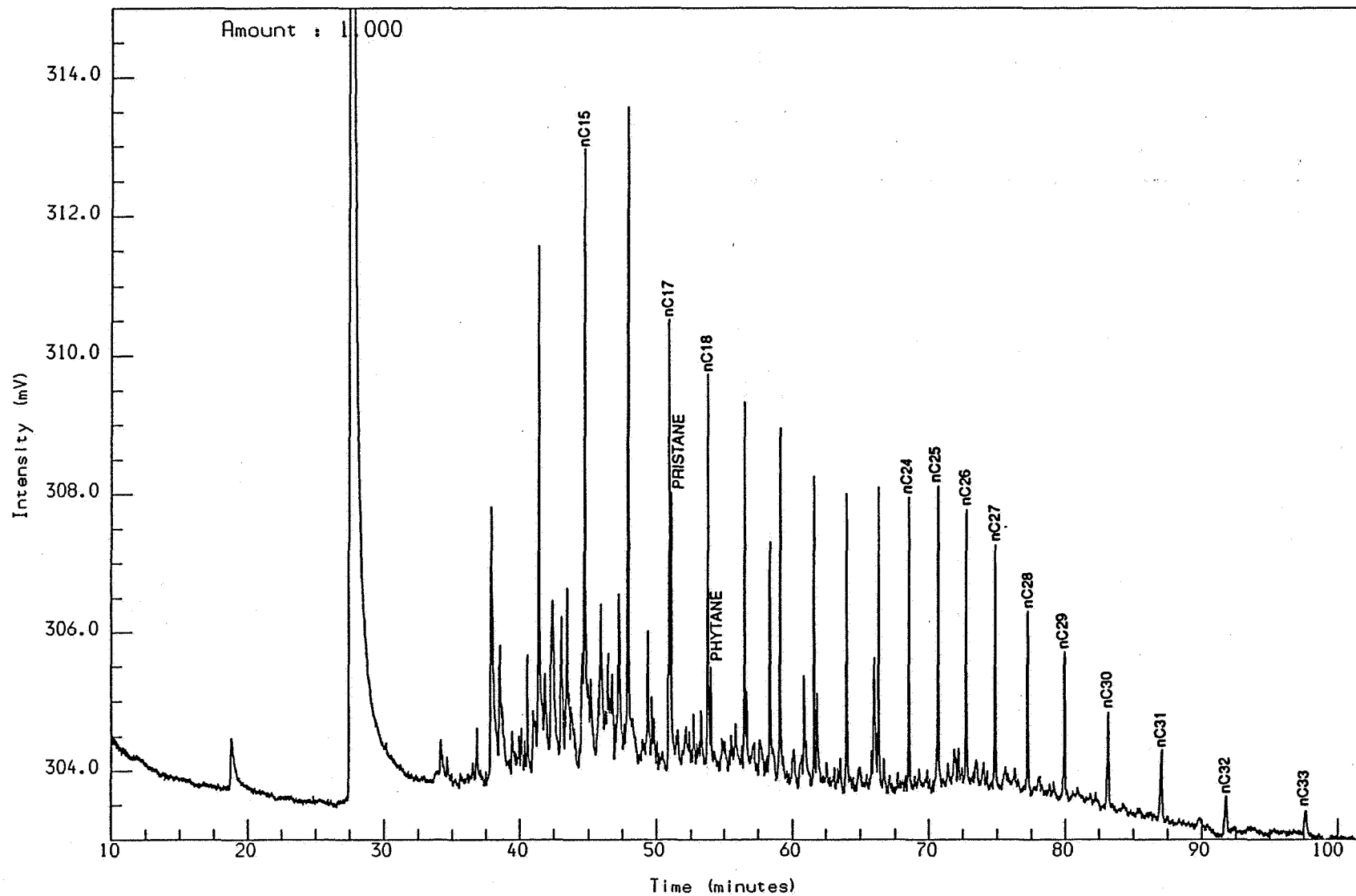
WELL NOCS 6506/11-3 3938.11m
WHOLE EOM GC (FID)

Reported on 16-DEC-1992 at 15:32

Schlumberger

GECO-PRAKLA

GEOLAB NOR

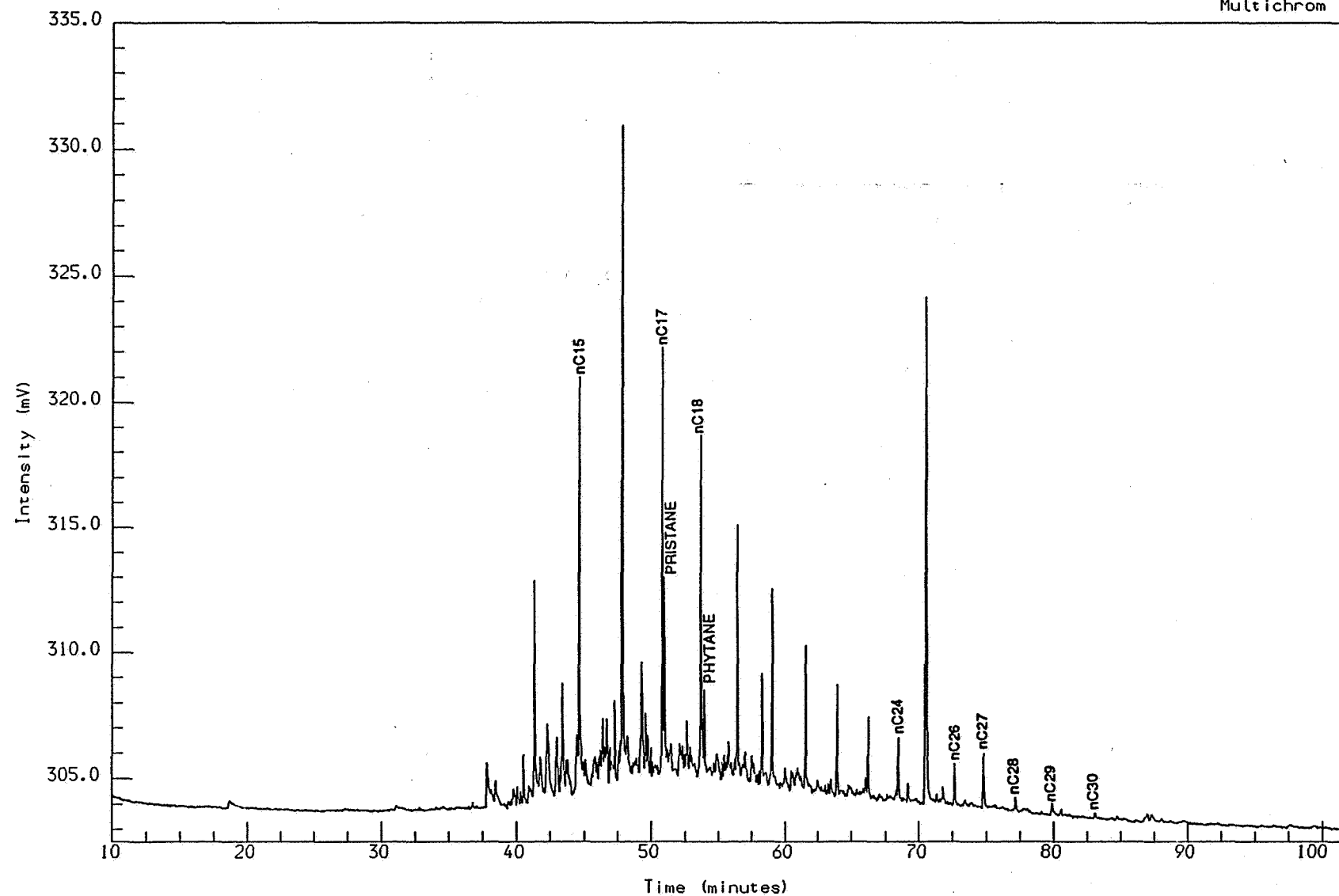


WELL NOCS 6506/11-3 3938.11m
WHOLE EDM GC (FID)

Reported on 16-DEC-1992 at 15:33

Analysis Name : [60218] 31 W0398459,1,1.

Multichrom



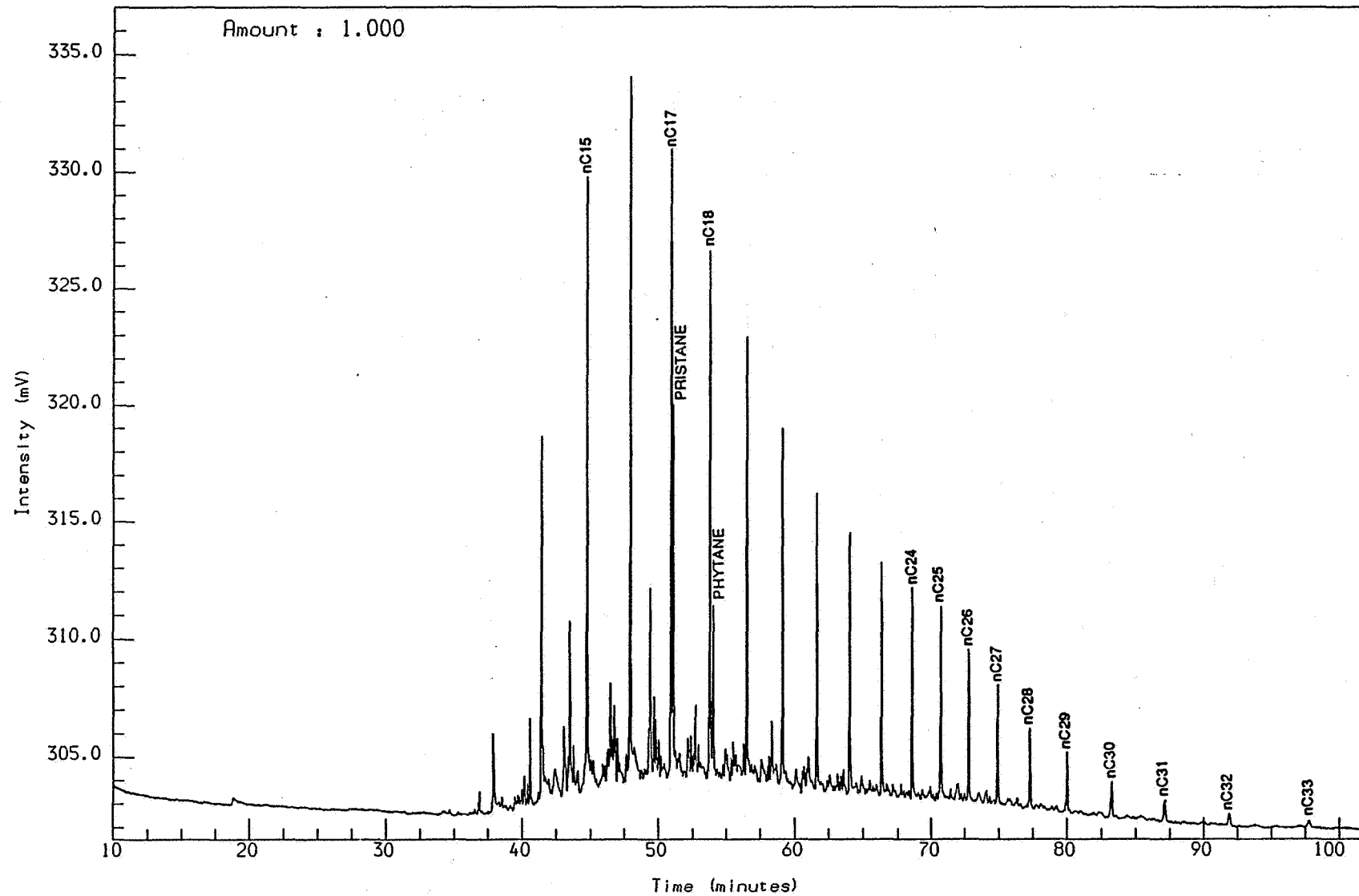
WELL NOCS 6506/11-3 3984.59m
WHOLE EOM GC (FID)

Reported on 18-DEC-1992 at 09:48

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 6506/11-3 4214.40m
WHOLE EOM GC (FID)

Reported on 18-DEC-1992 at 11:28

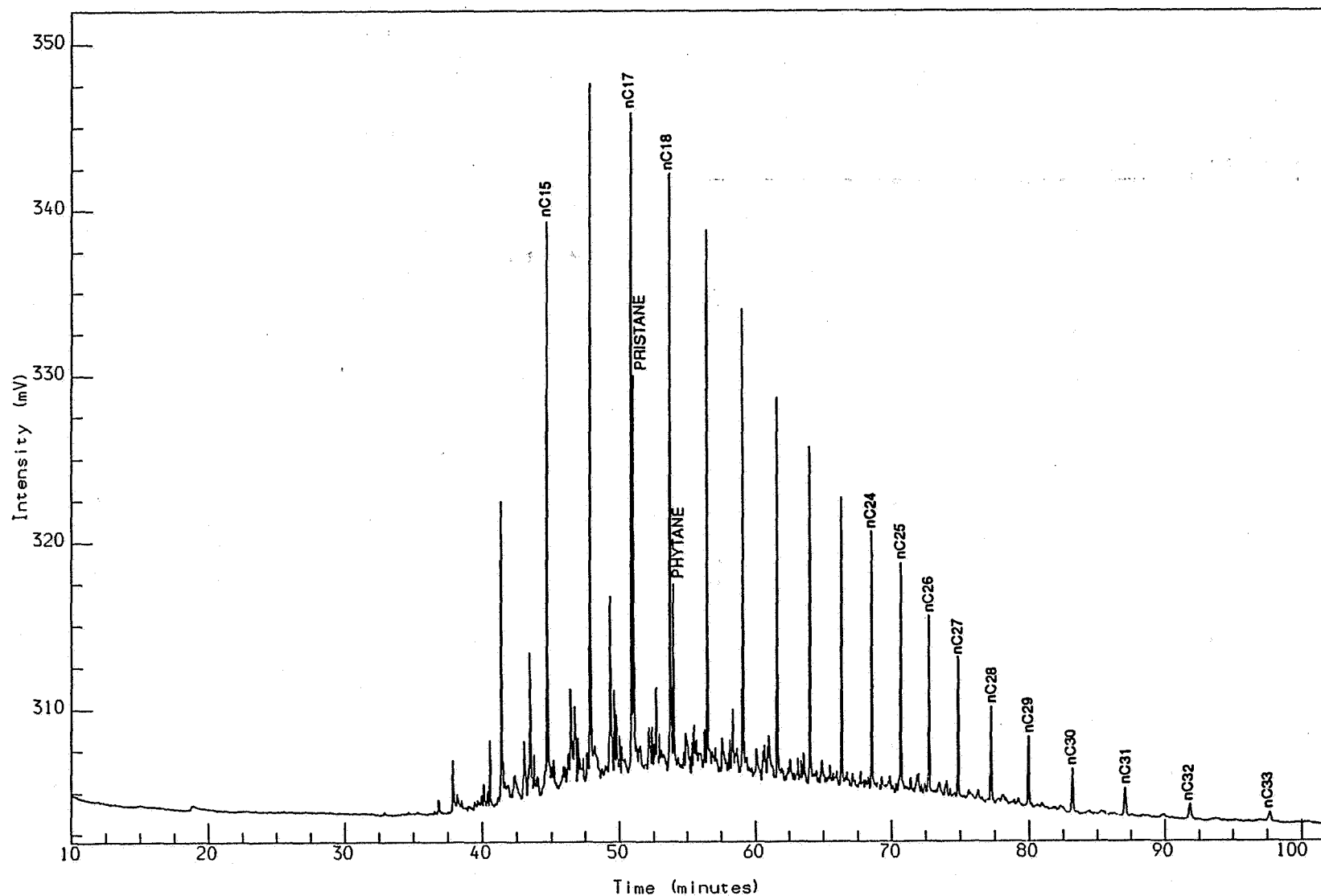
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 31 W042222.1.1.

Multichrom



WELL NOCS 6506/11-3 4222.22m
WHOLE EOM GC (FID)

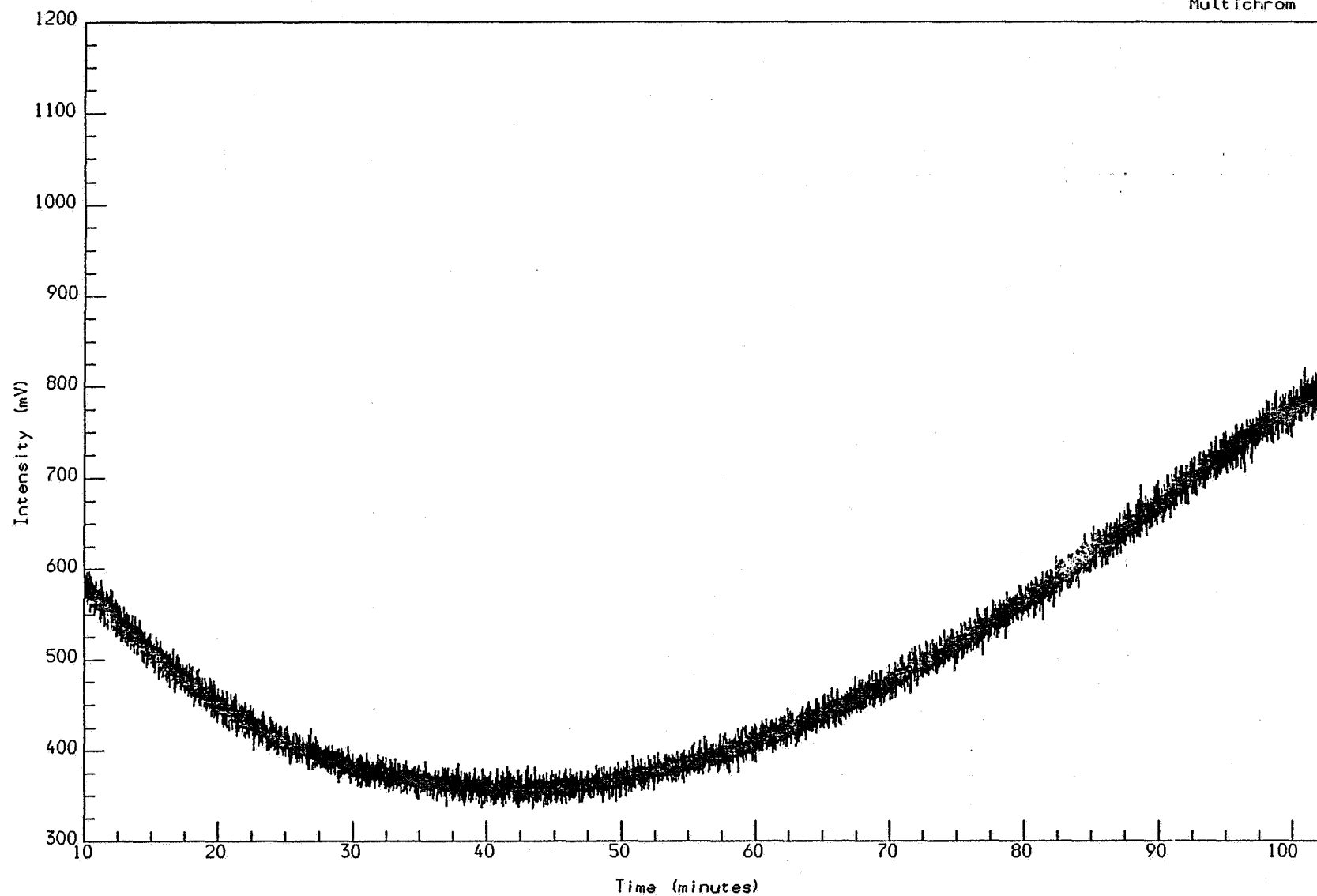
Reported on 18-DEC-1992 at 09:58

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 32 W01250B.1.1.

Multichrom



WELL NOCS 6506/11-3 1250.00m
WHOLE EDM GC (FPD)

Reported on 15-DEC-1992 at 13:09

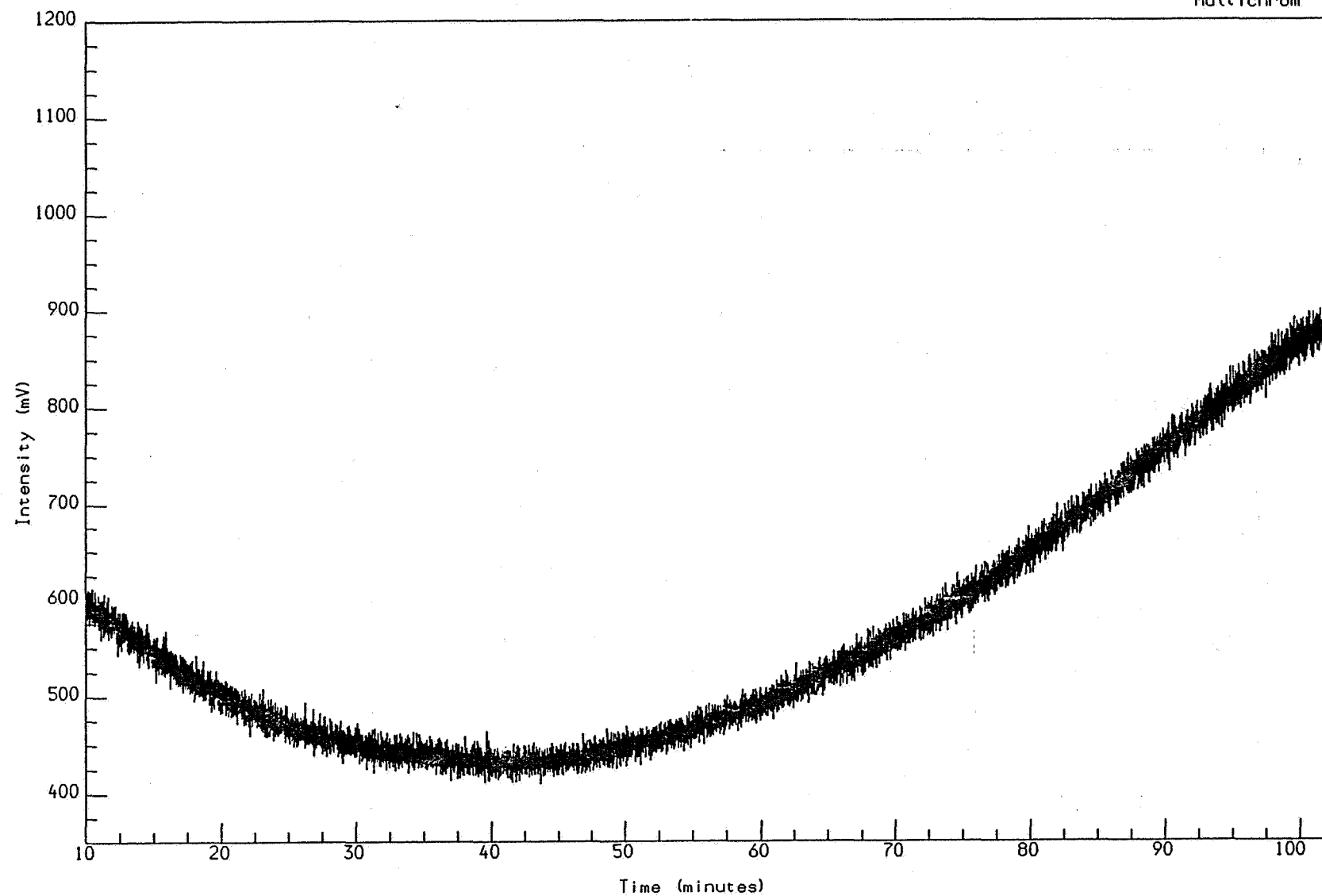
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 32 W02970.1.1.

Multichrom



WELL NOCS 6506/11-3 2970.00m
WHOLE EDM GC (FPD)

Reported on 15-DEC-1992 at 08:25

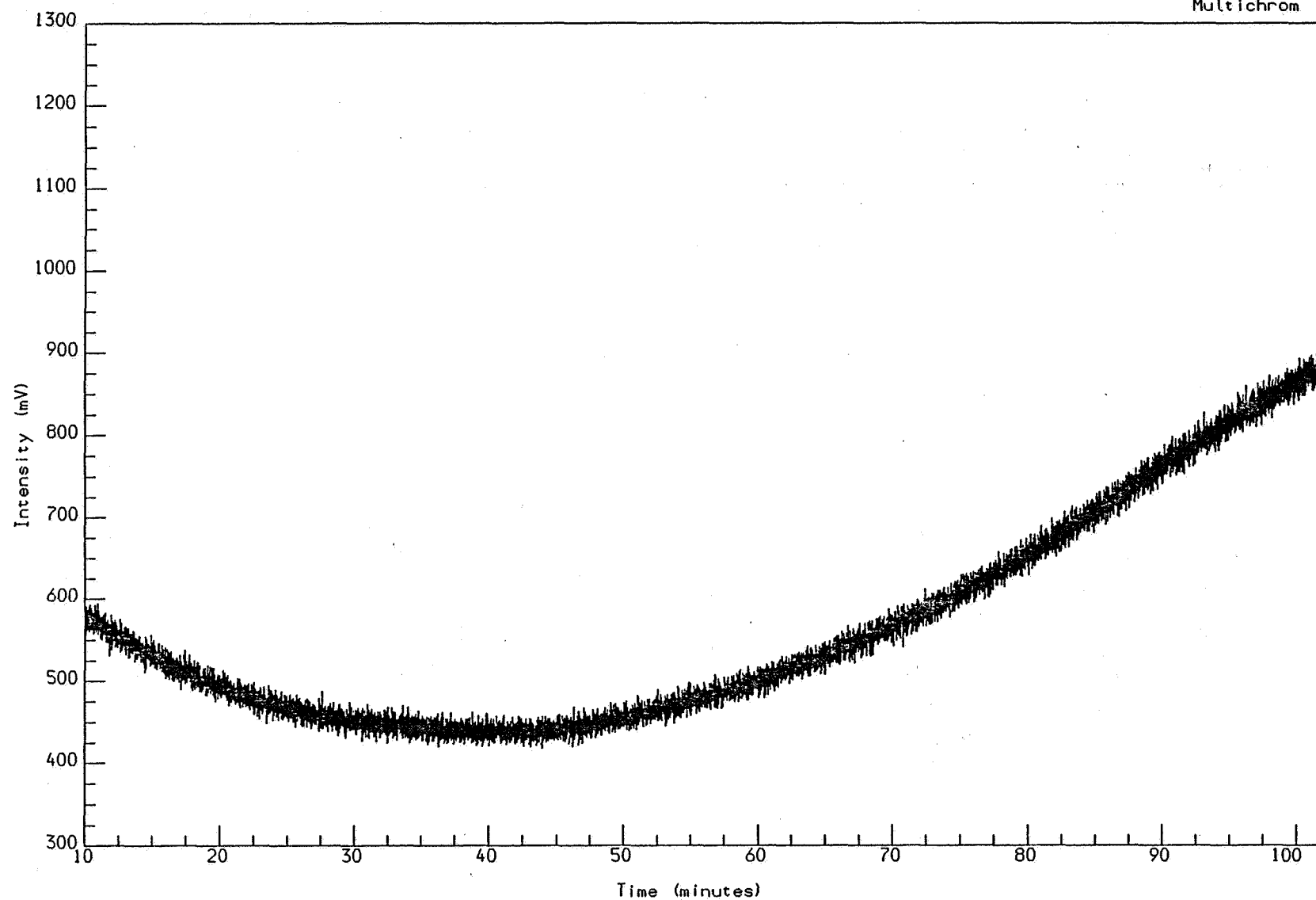
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 32 W0313850,1,1.

Multichrom



WELL NOCS 6506/11-3 3138.50m
WHOLE EOM GC (FPD)

Reported on 15-DEC-1992 at 13:57

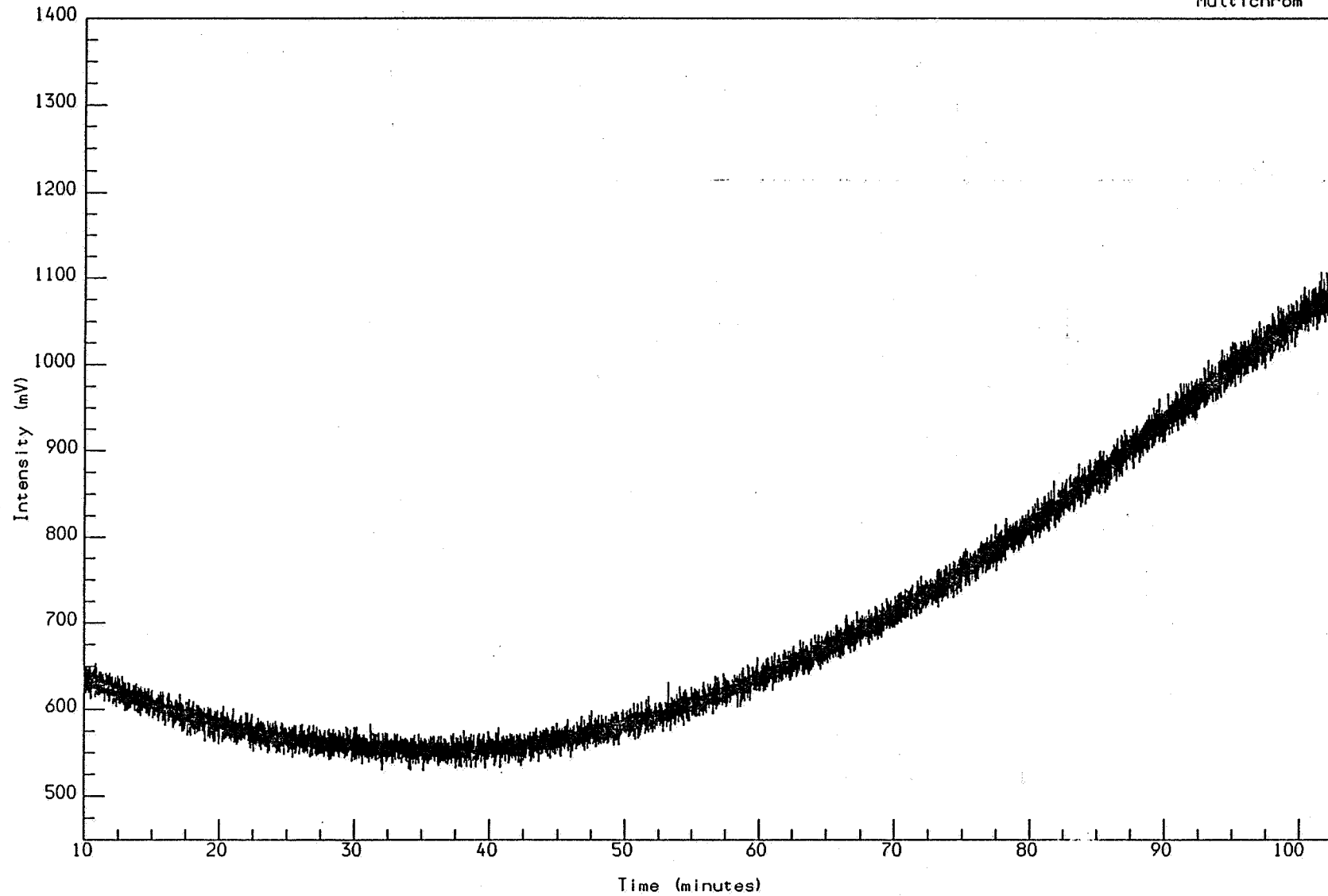
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 32 W03420.1.1.

Multichrom



WELL NOCS 6506/11-3 3420.00m
WHOLE EOM GC (FPD)

Reported on 17-DEC-1992 at 10:06

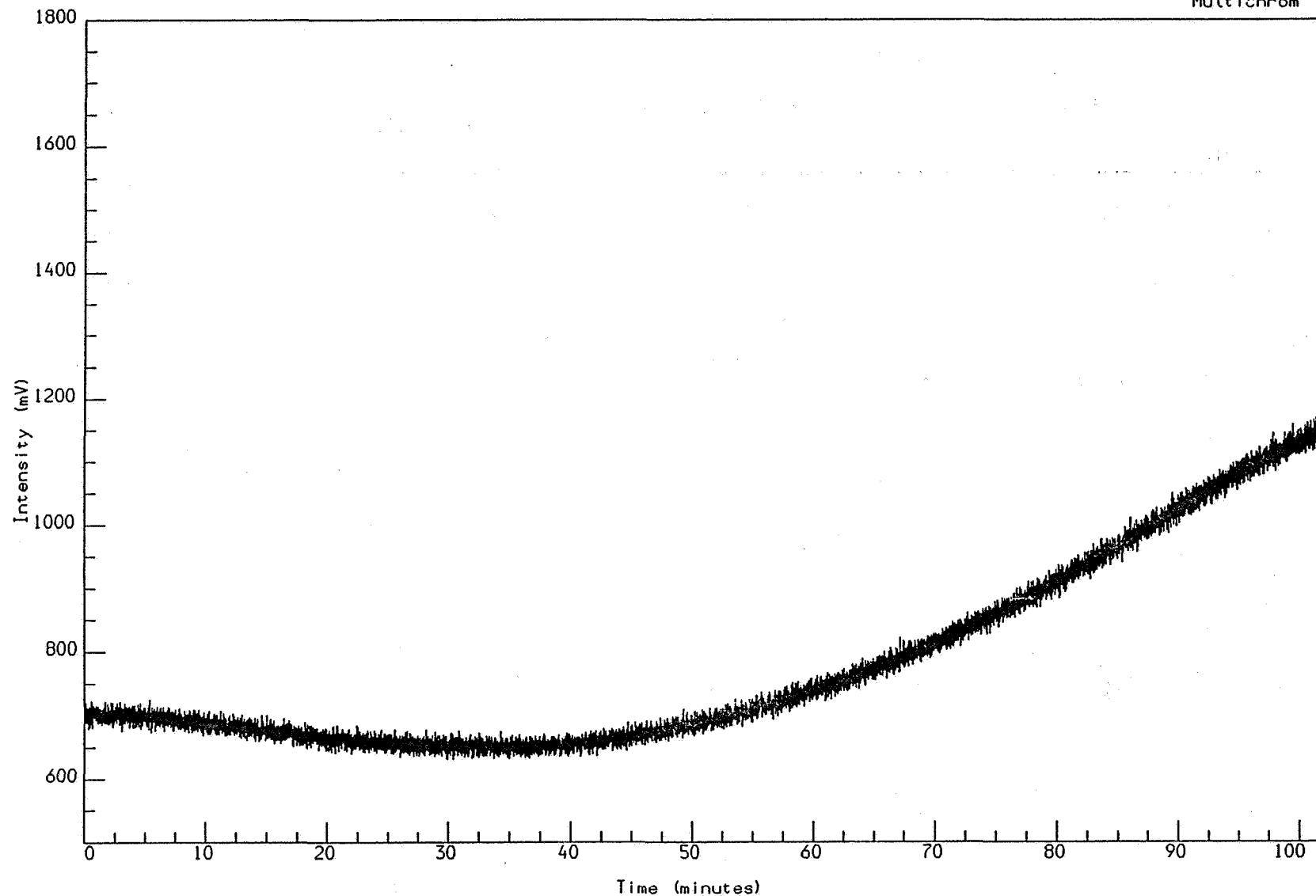
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 32 W06506113.1.1.

Multichrom



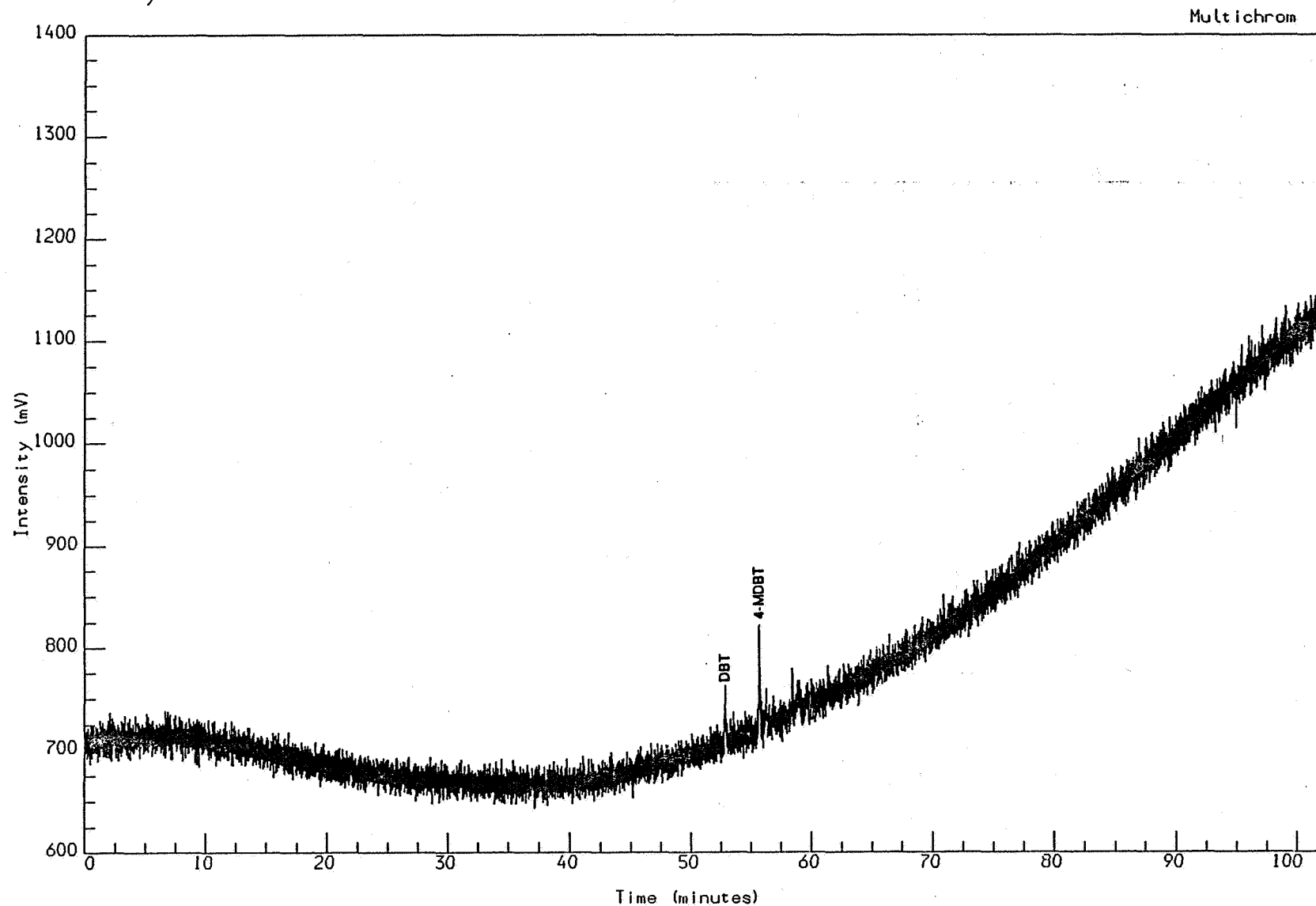
WELL 6506/11-3 3937.00m RFT
WHOLE OIL GC (FPD)
Oil film on top of the sample

Reported on 7-DEC-1992 at 14:29

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 32 W06506113B,1,1.



WELL 6506/11-3 3937.00m RFT
WHOLE OIL GC (FPD)
Extracted sample

Reported on 9-DEC-1992 at 14:25

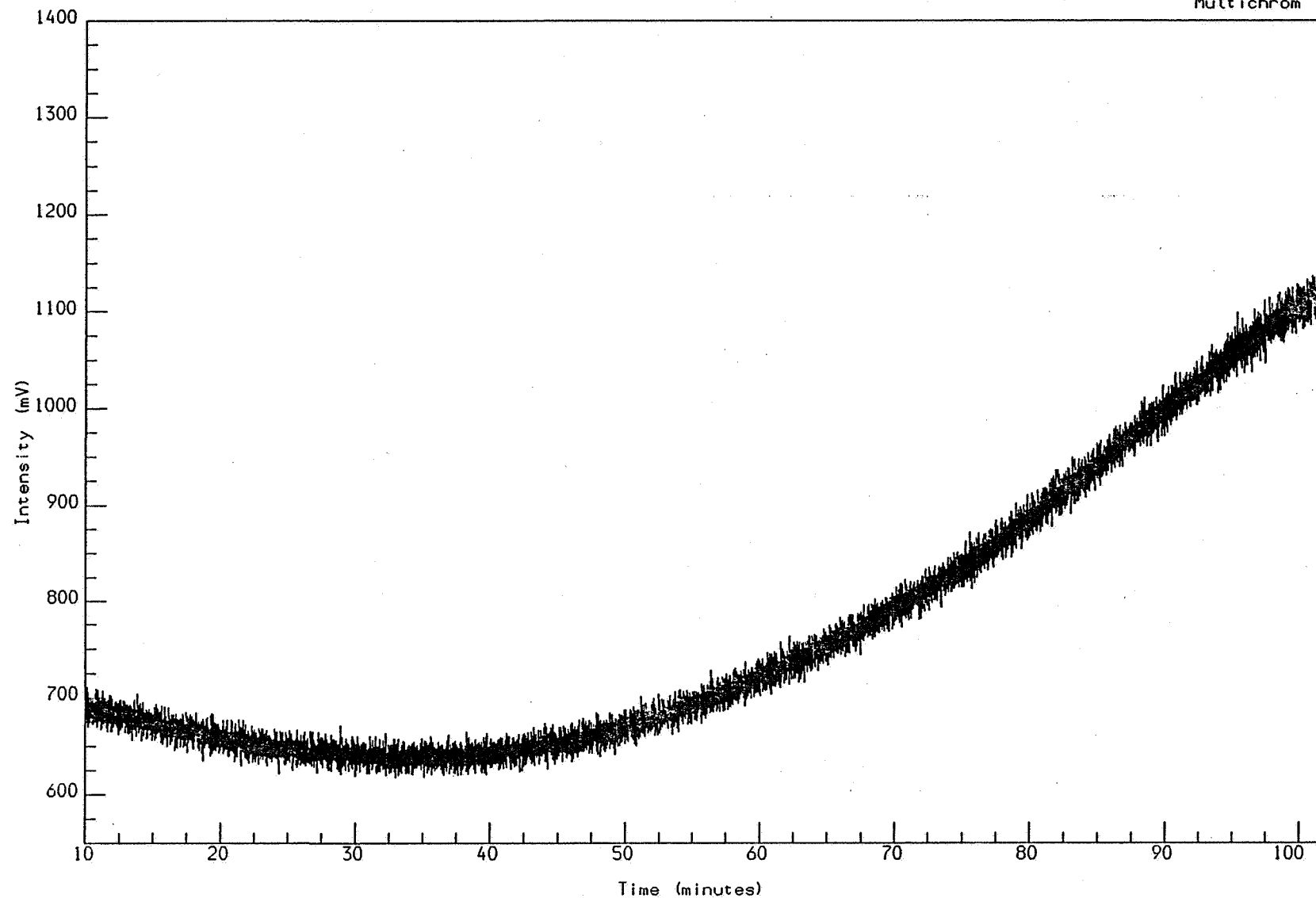
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 32 W0393811.1.1.

Multichrom



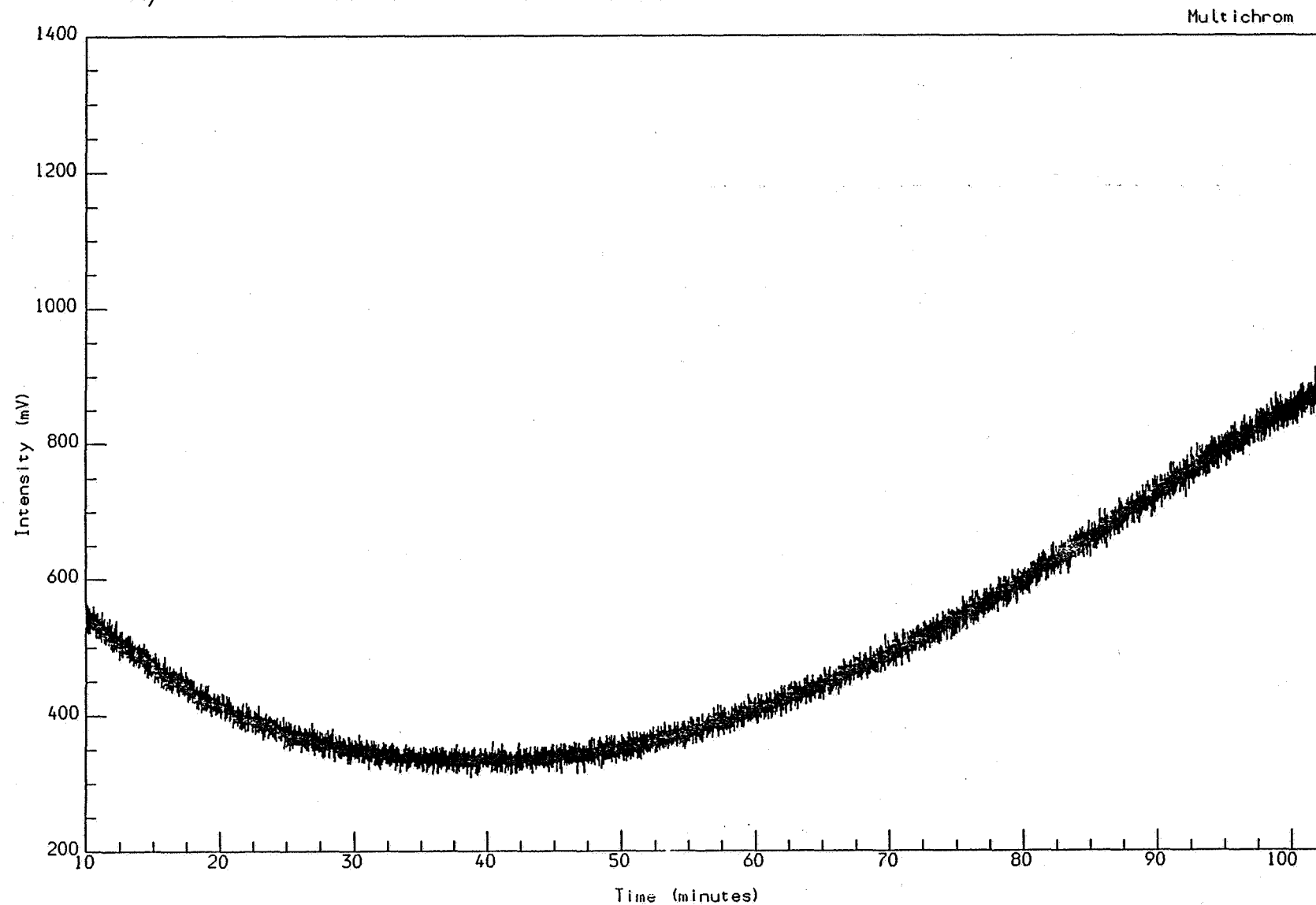
WELL NOCS 6506/11-3 3938.11m
WHOLE EOM GC (FPD)

Reported on 16-DEC-1992 at 15:38

Schlumberger GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 32 W0398459.1.1.



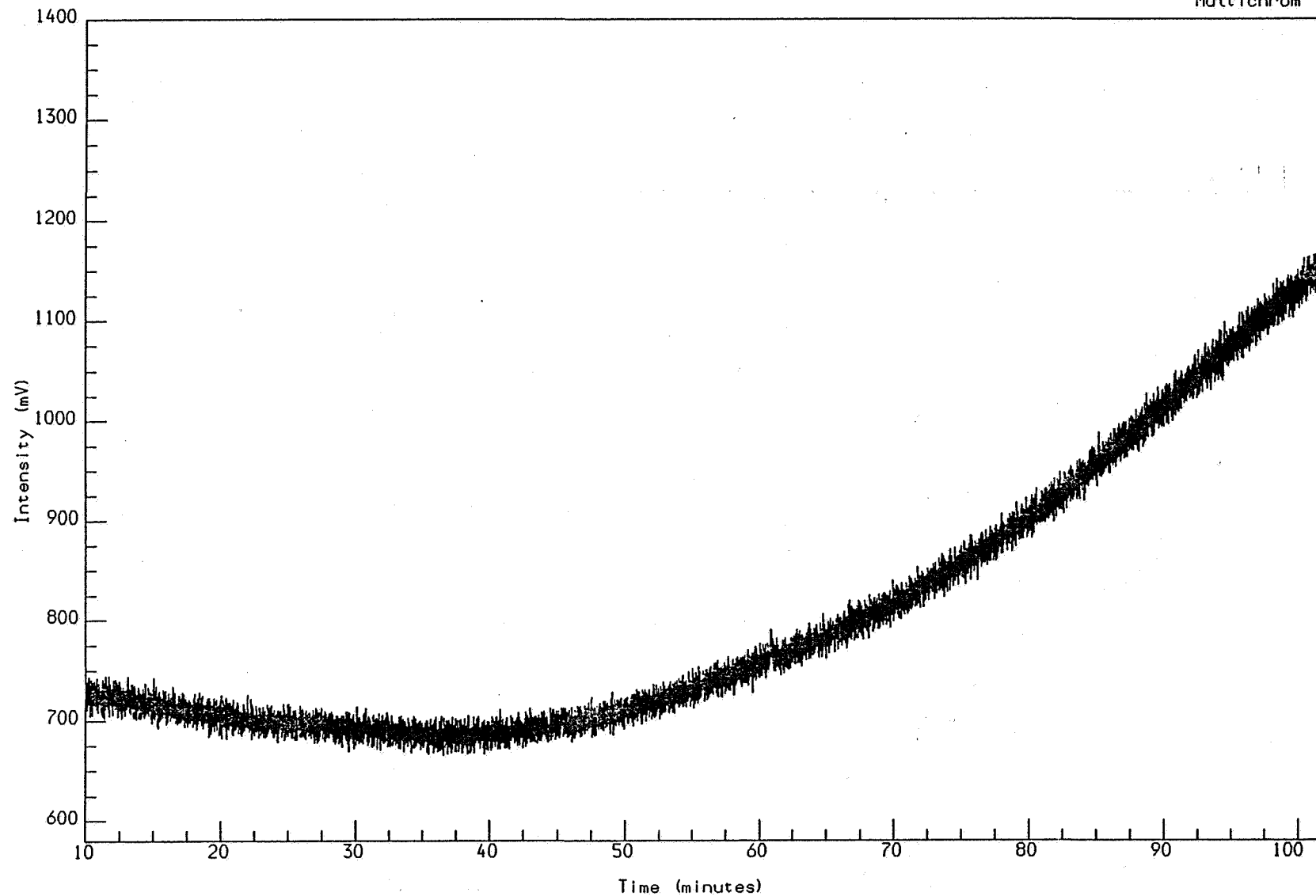
WELL NOCS 6506/11-3 3984.59m
WHOLE EDM GC (FPD)

Reported on 18-DEC-1992 at 09:53

Schlumberger

GECO-PRAKLA

GEOLAB  NOR



WELL NOCS 6506/11-3 4214.40m
WHOLE EOM GC (FPD)

Reported on 18-DEC-1992 at 10:03

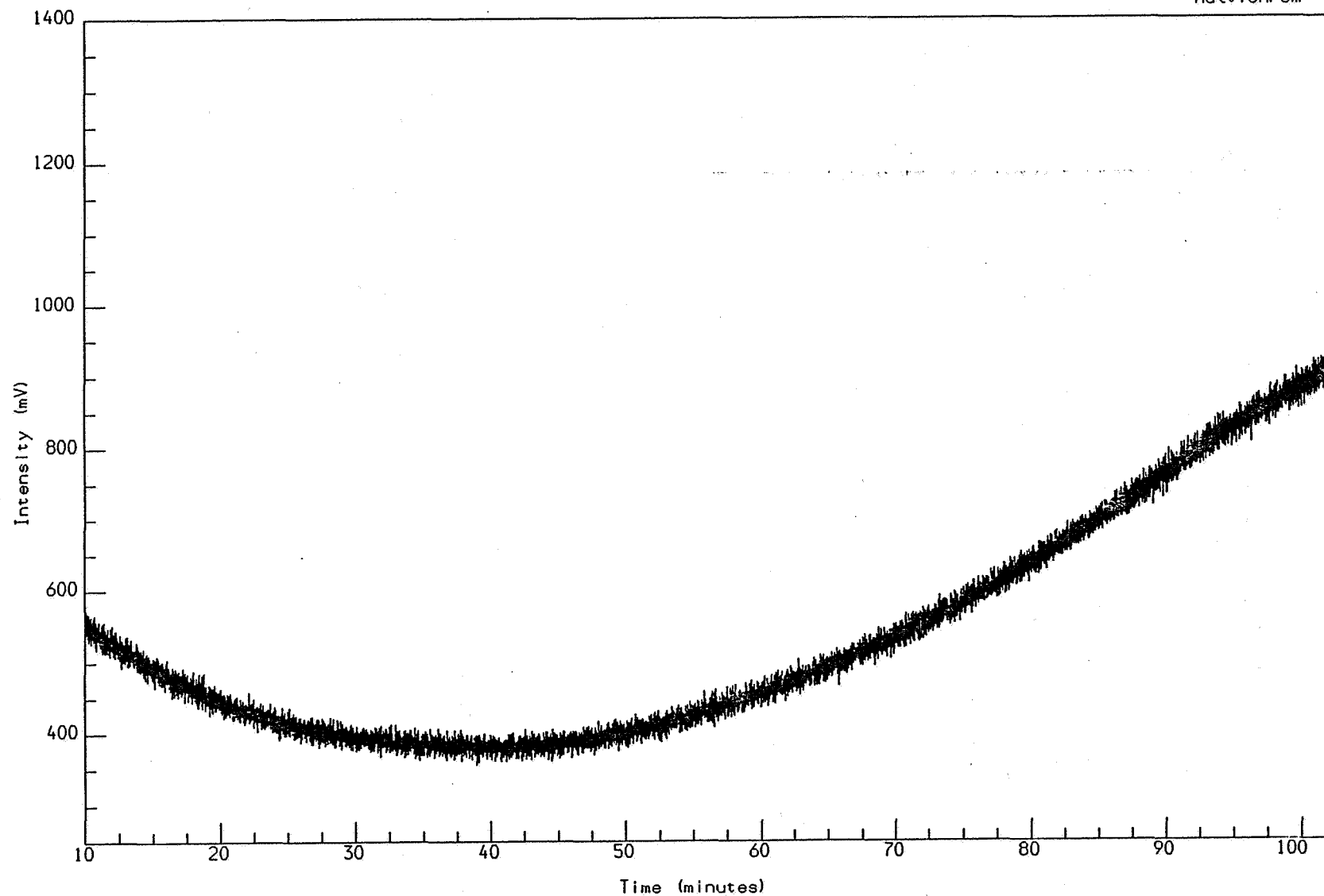
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 32 W0422222,1,1.

Multichrom



WELL NOCS 6506/11-3 4222.22m
WHOLE EOM GC (FPD)

Reported on 18-DEC-1992 at 10:06

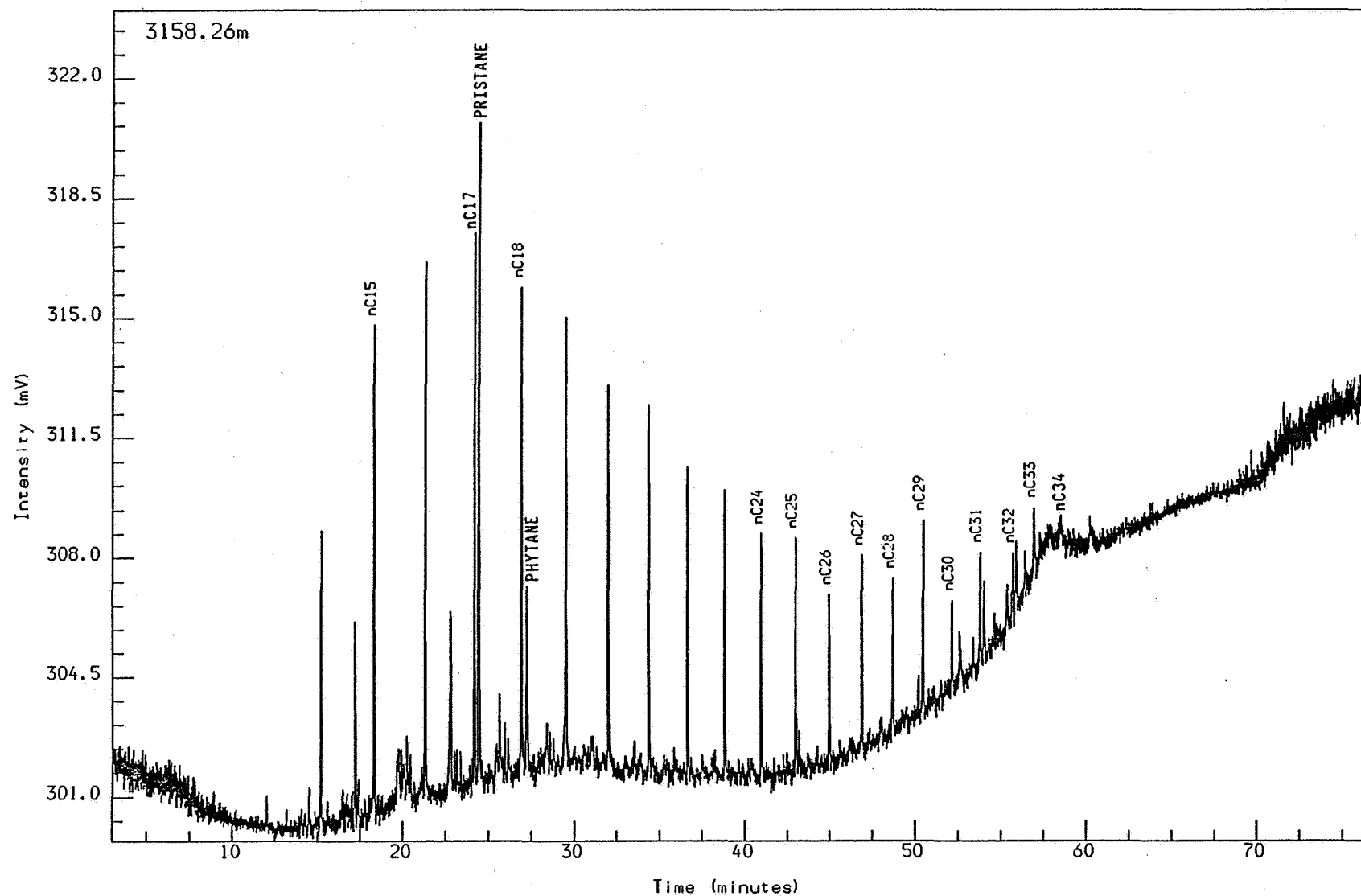
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9400271L,2,1.

Multichrom



WELL NOCS 6506/11-3

3158.26m ccp

SATURATED GC

Sh/C1st: m gy

Reported on 18-DEC-1992 at 13:44

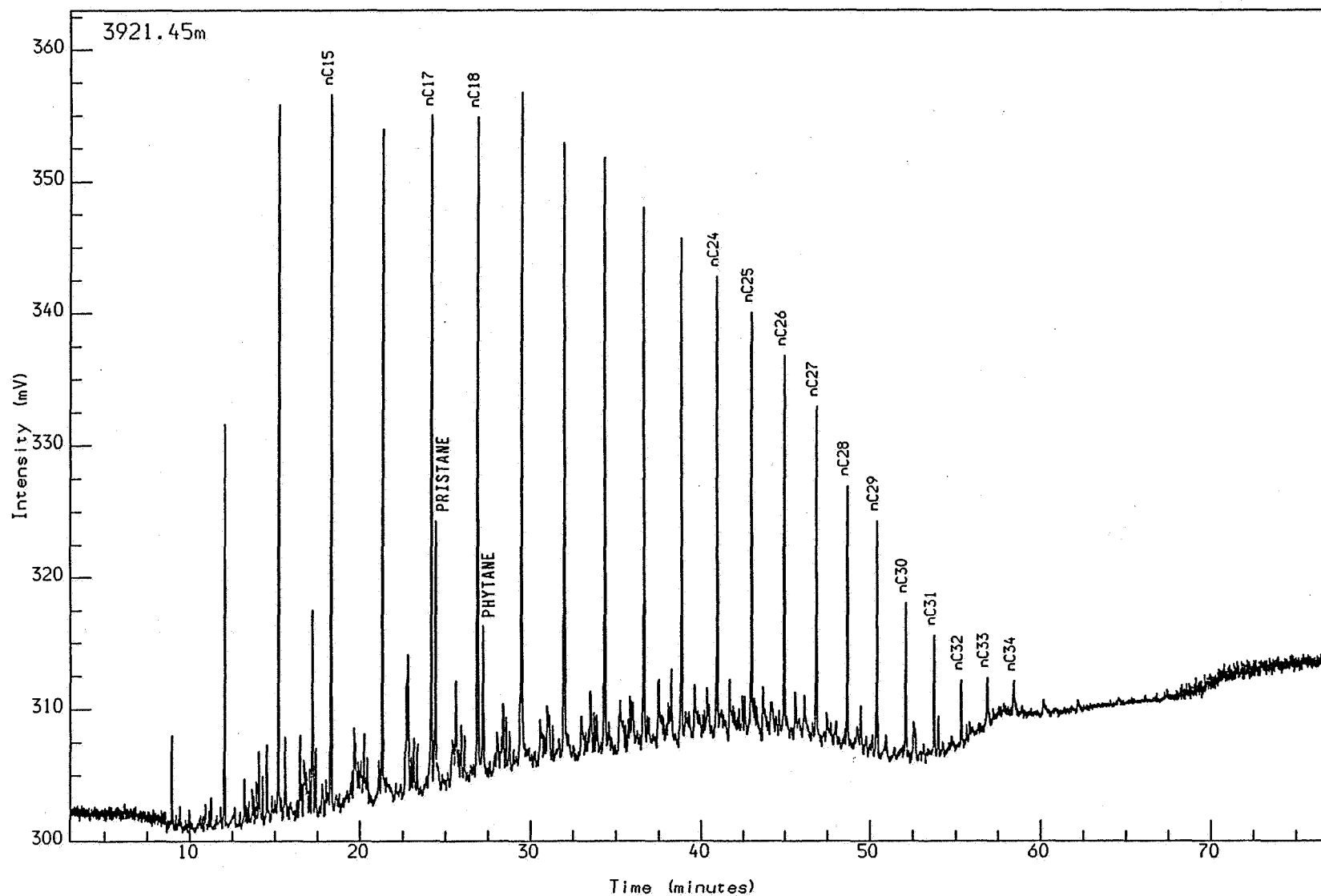
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9400271L.3.1.

Multichrom



WELL NOCS 6506/11-3 3921.45m ccp
SATURATED GC
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 13:48

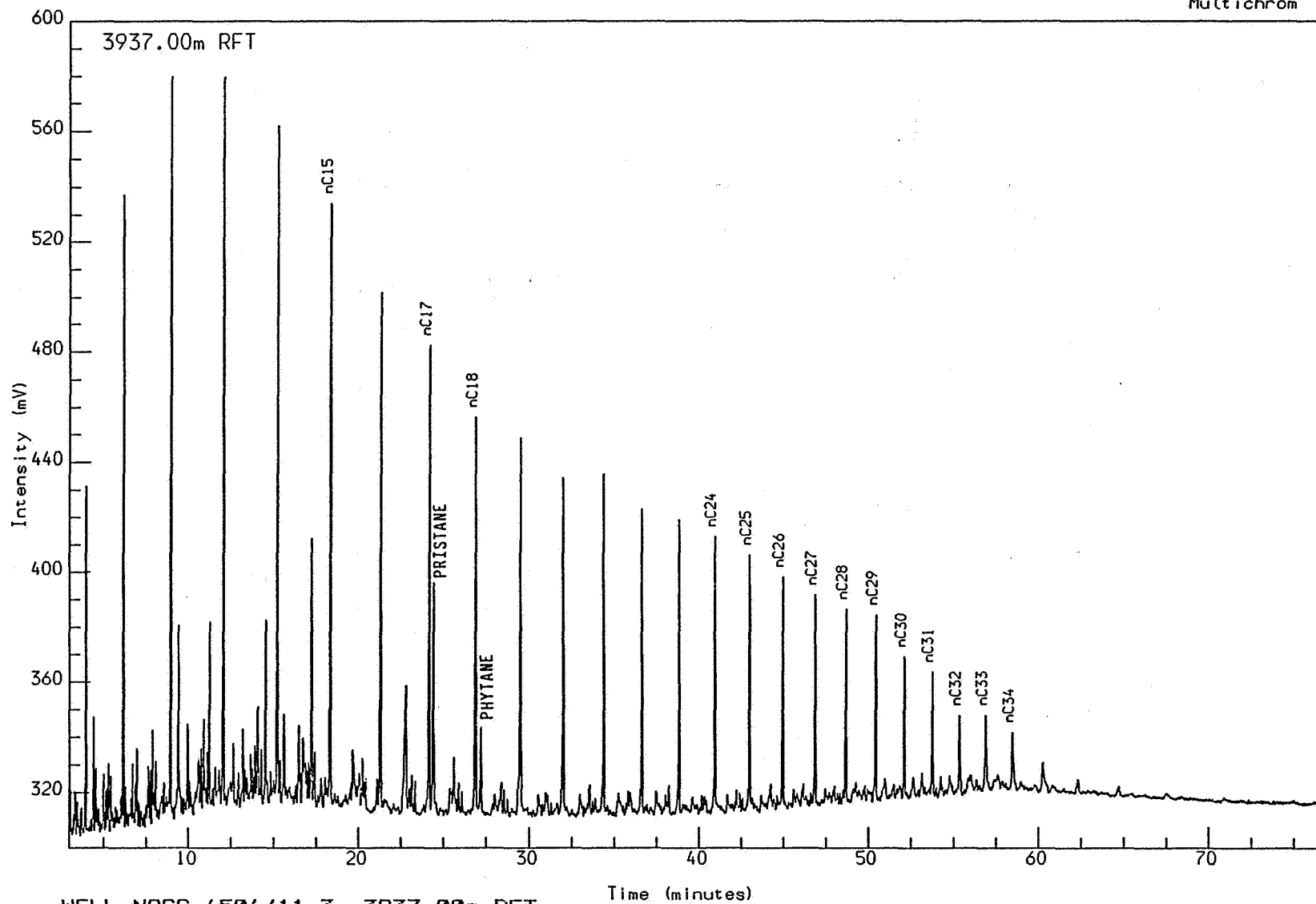
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9403937L,2,1.

Multichrom



WELL NOCS 6506/11-3 3937.00m RFT
SATURATED GC

Reported on 21-DEC-1992 at 15:50

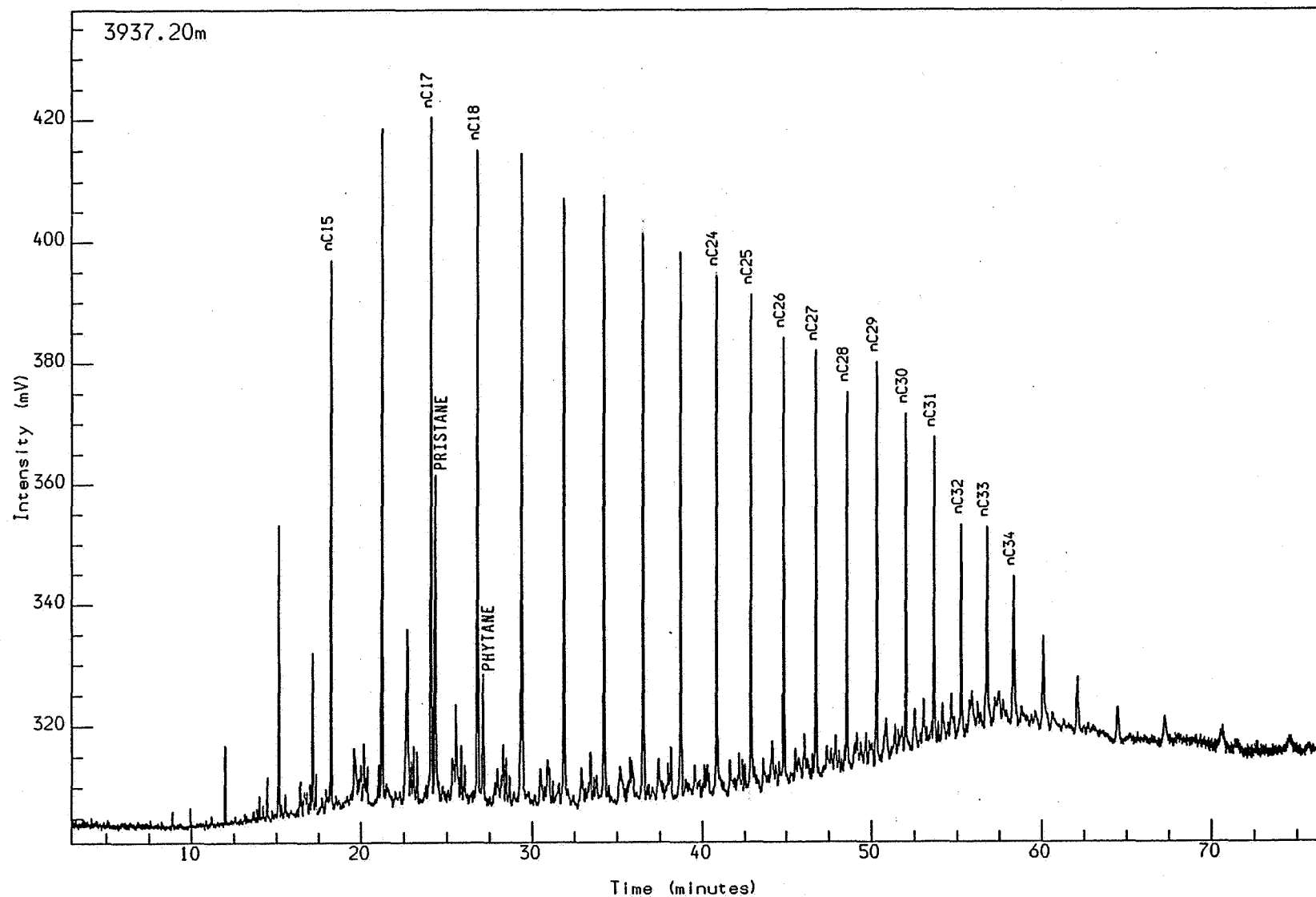
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9400341L,2,1.

Multichrom



WELL NOCS 6506/11-3 3937.20m ccp
SATURATED GC
S/Sst: y gy to lt brn gy

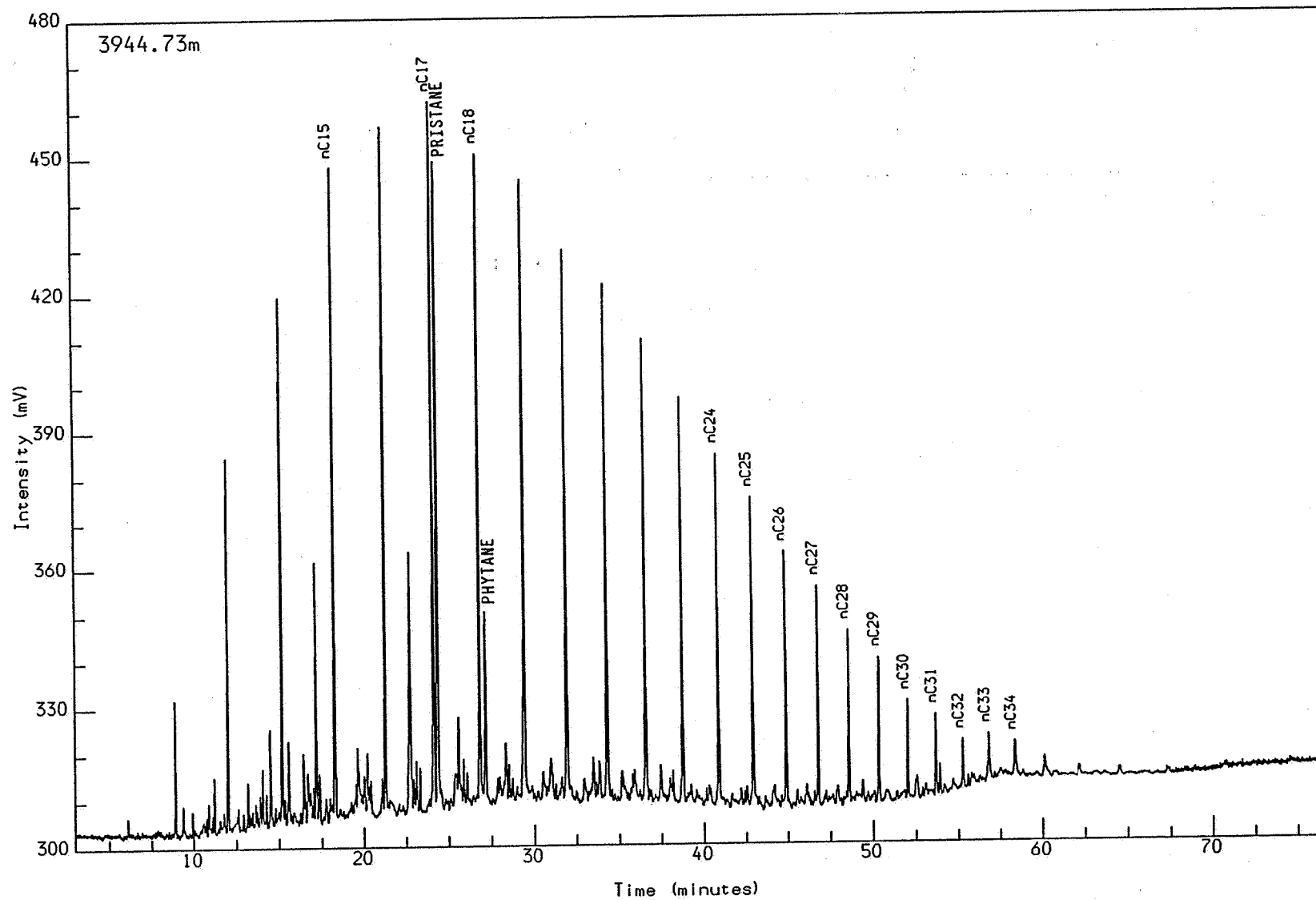
Reported on 18-DEC-1992 at 14:16

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9400271L.4.1.

Multichrom



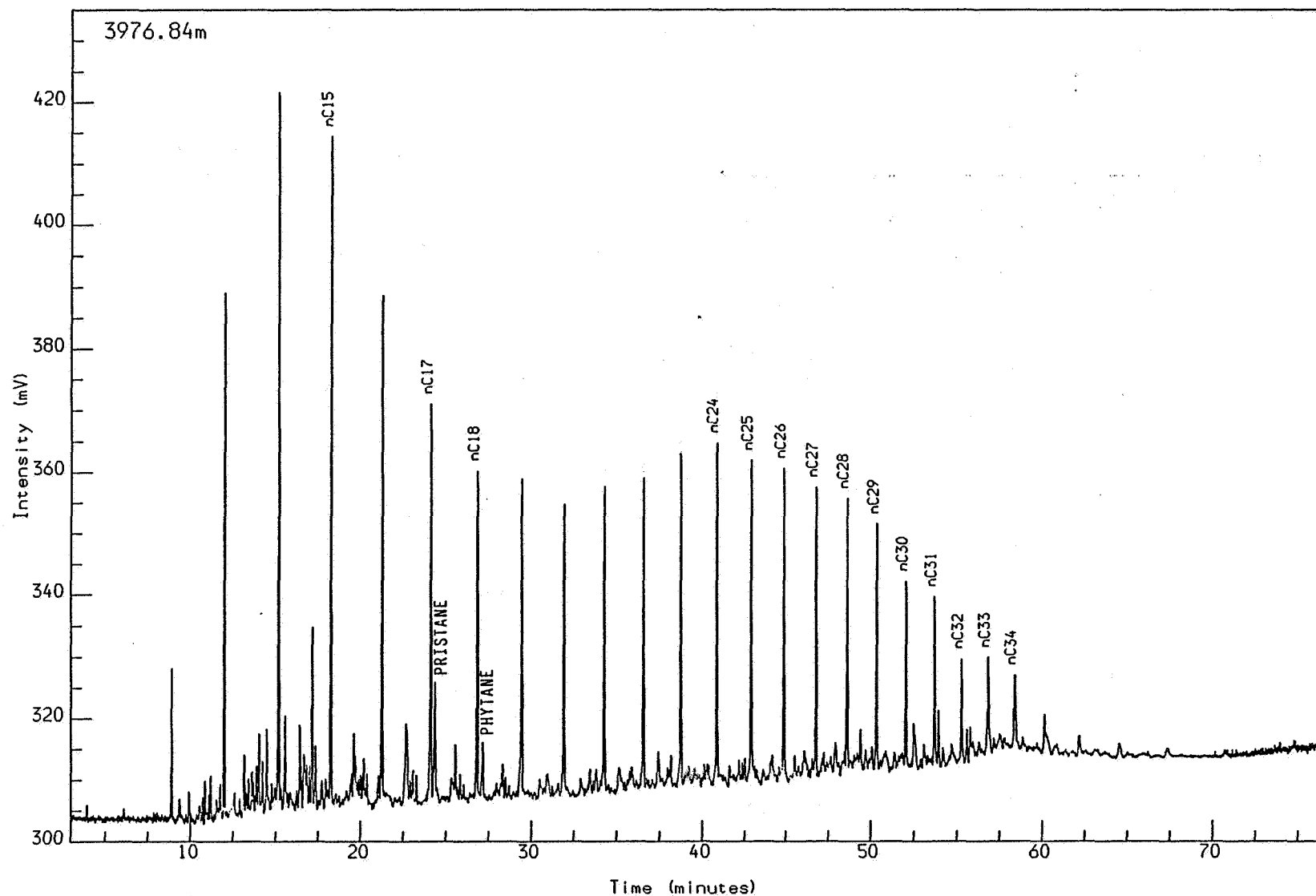
WELL NOCS 6506/11-3 3944.73m ccp
SATURATED GC
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 13:51

Schlumberger

GECO-PRAKLA

GEOLAB NOR

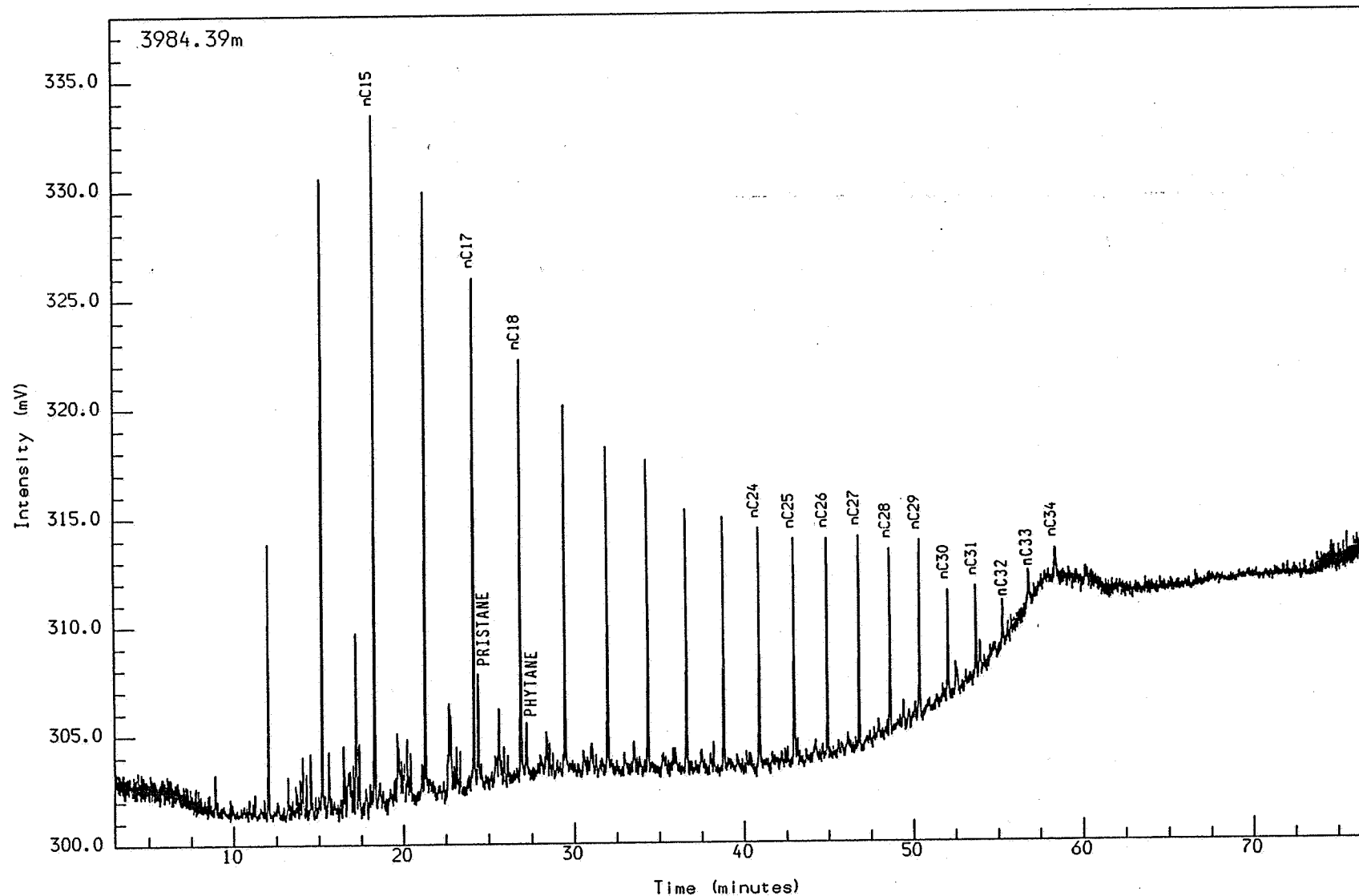


WELL NOCS 6506/11-3 3976.84m ccp
 SATURATED GC
 Sh/C1st: m gy to drk gy

Reported on 18-DEC-1992 at 13:54

Analysis Name : [60218] 5 SH9400271L.6.1.

Multichrom



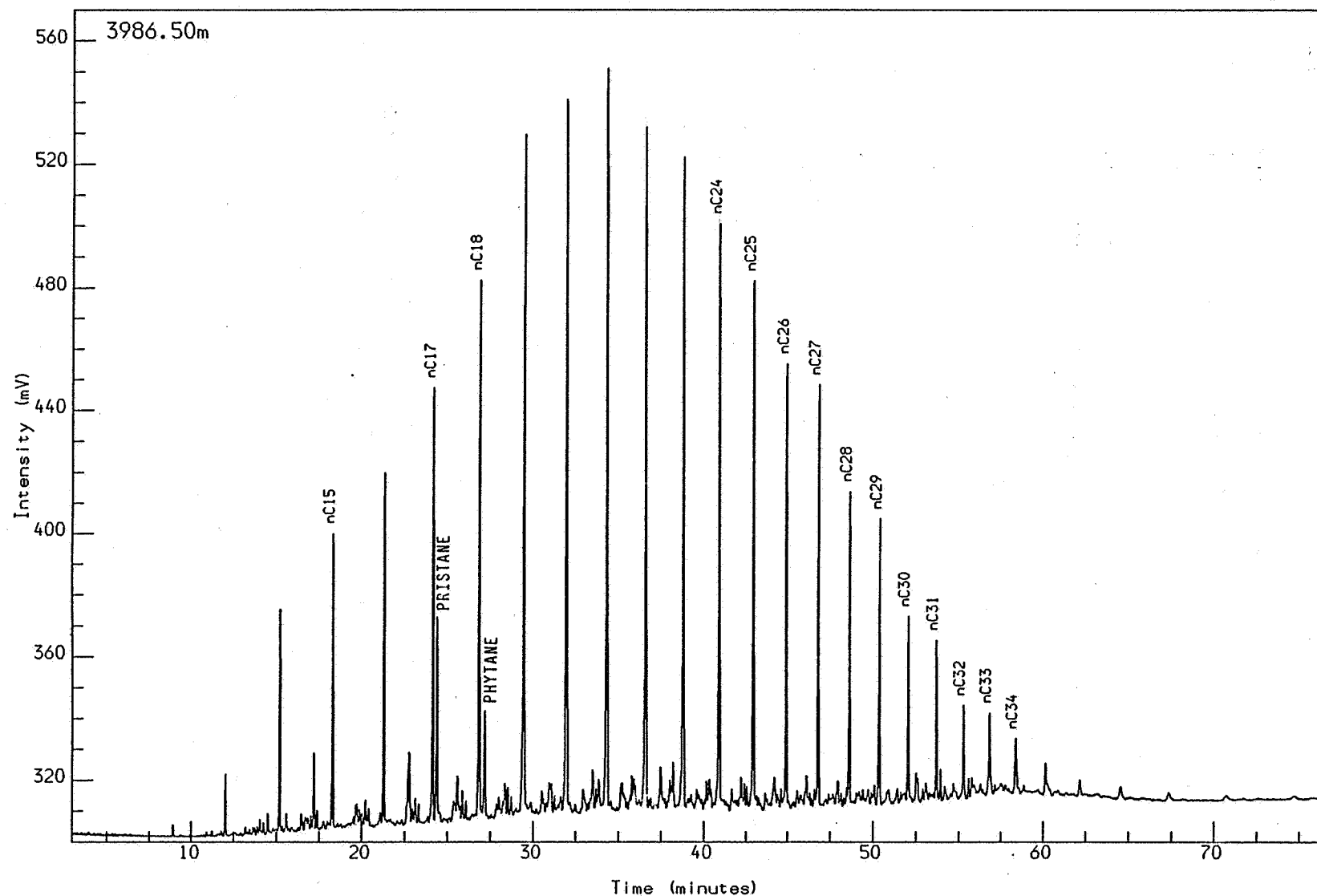
WELL NOCS 6506/11-3 3984.39m ccp
SATURATED GC
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 13:57

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 6506/11-3
SATURATED GC
Sh/C1st: drk gy

3986.50m ccp

Reported on 18-DEC-1992 at 14:00

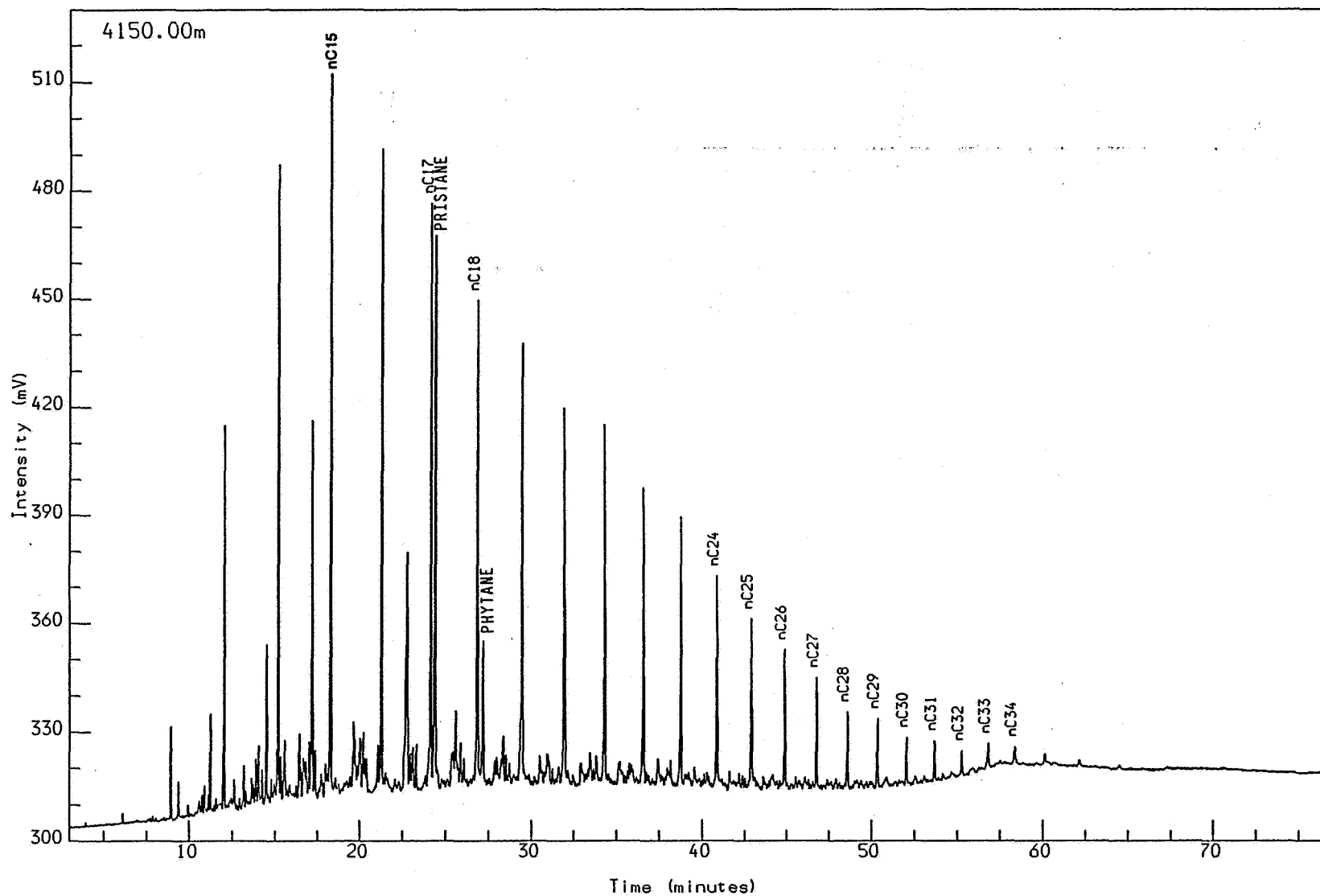
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9400271L,8,1.

Multichrom



WELL NOCS 6506/11-3 4150.00m cut
SATURATED GC
Sh/Clst: m gy to drk gy to dsk y brn

Reported on 18-DEC-1992 at 14:04

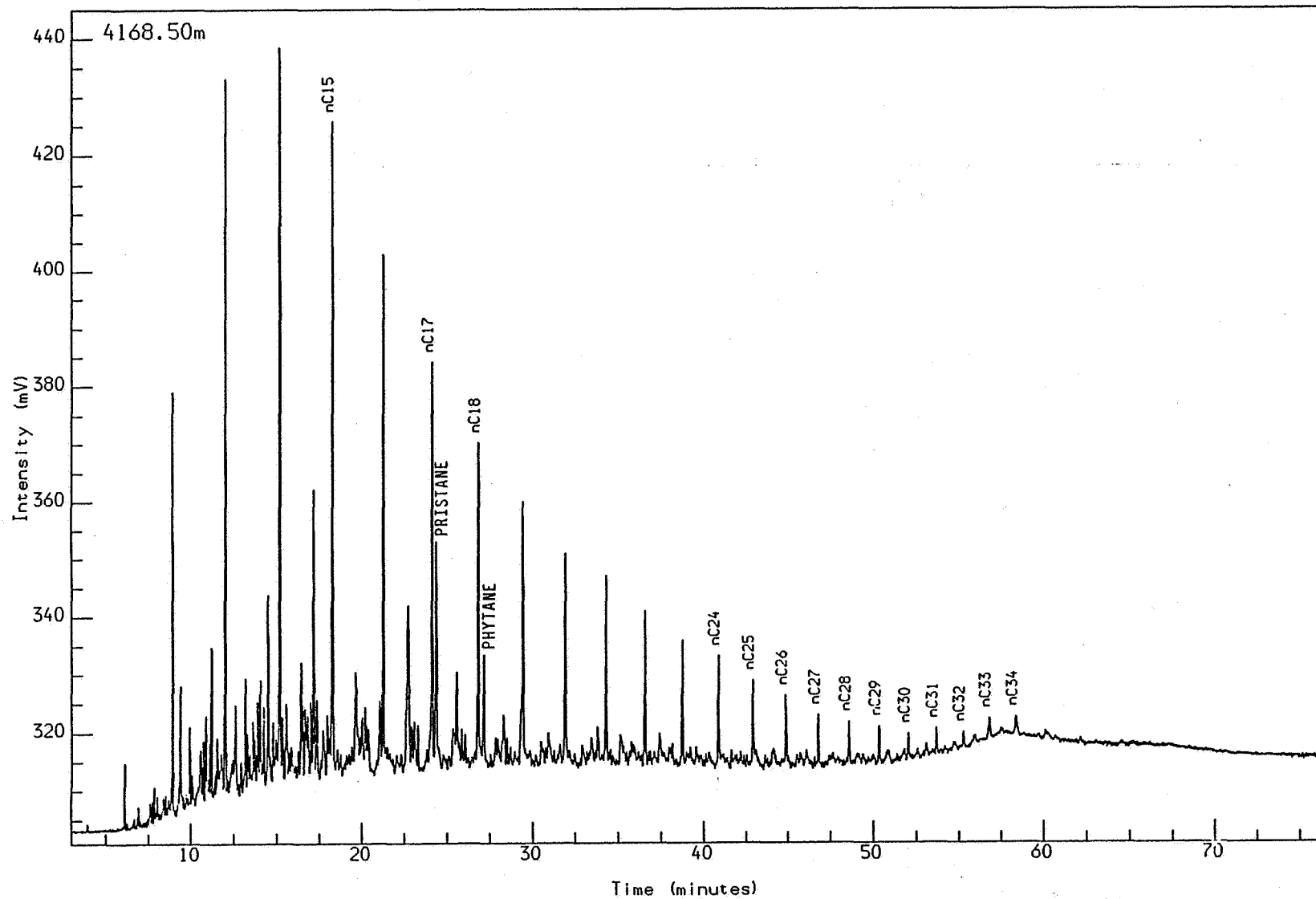
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9400271L,9,1.

Multichrom



WELL NOCS 6506/11-3 4168.50m swc
SATURATED GC
Sh/Clst: dsk y brn to brn blk

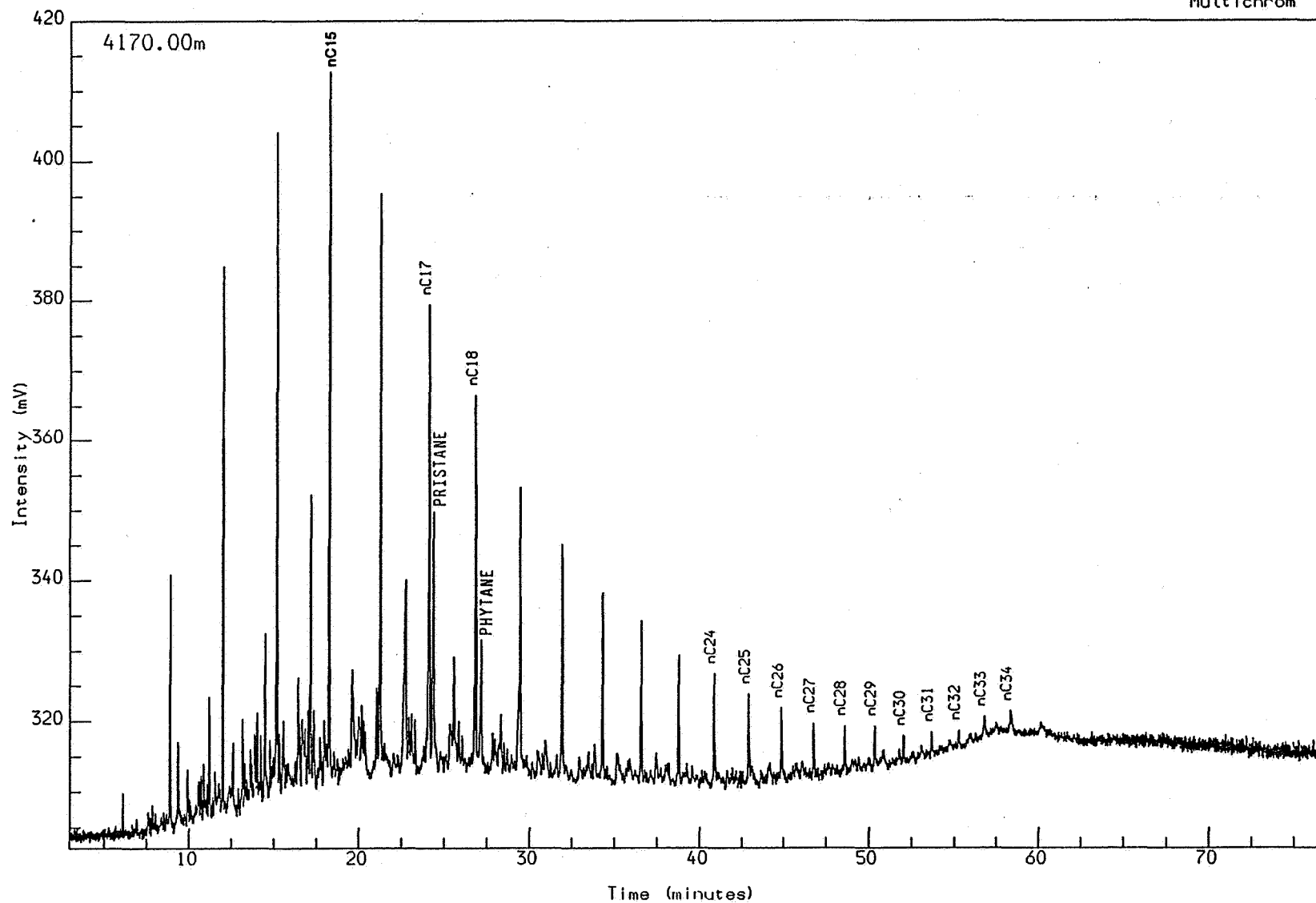
Reported on 18-DEC-1992 at 14:08

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 5 SH9400341L,3,1.

Multichrom



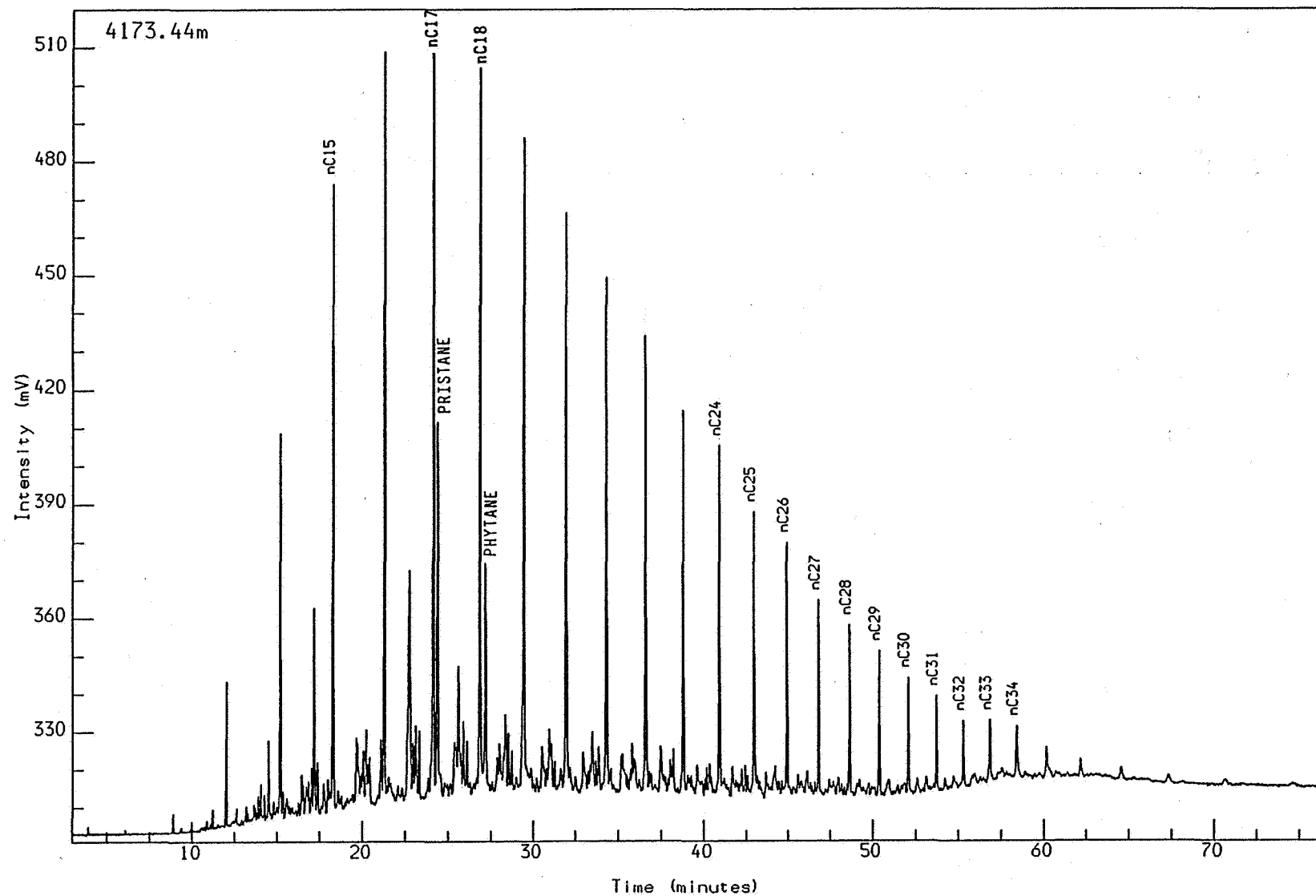
WELL NOCS 6506/11-3 4170.00m cut
SATURATED GC
Sh/Clst: dsk y brn to brn blk

Reported on 18-DEC-1992 at 15:54

Schlumberger

GECO-PRAKLA

GEOLAB NOR

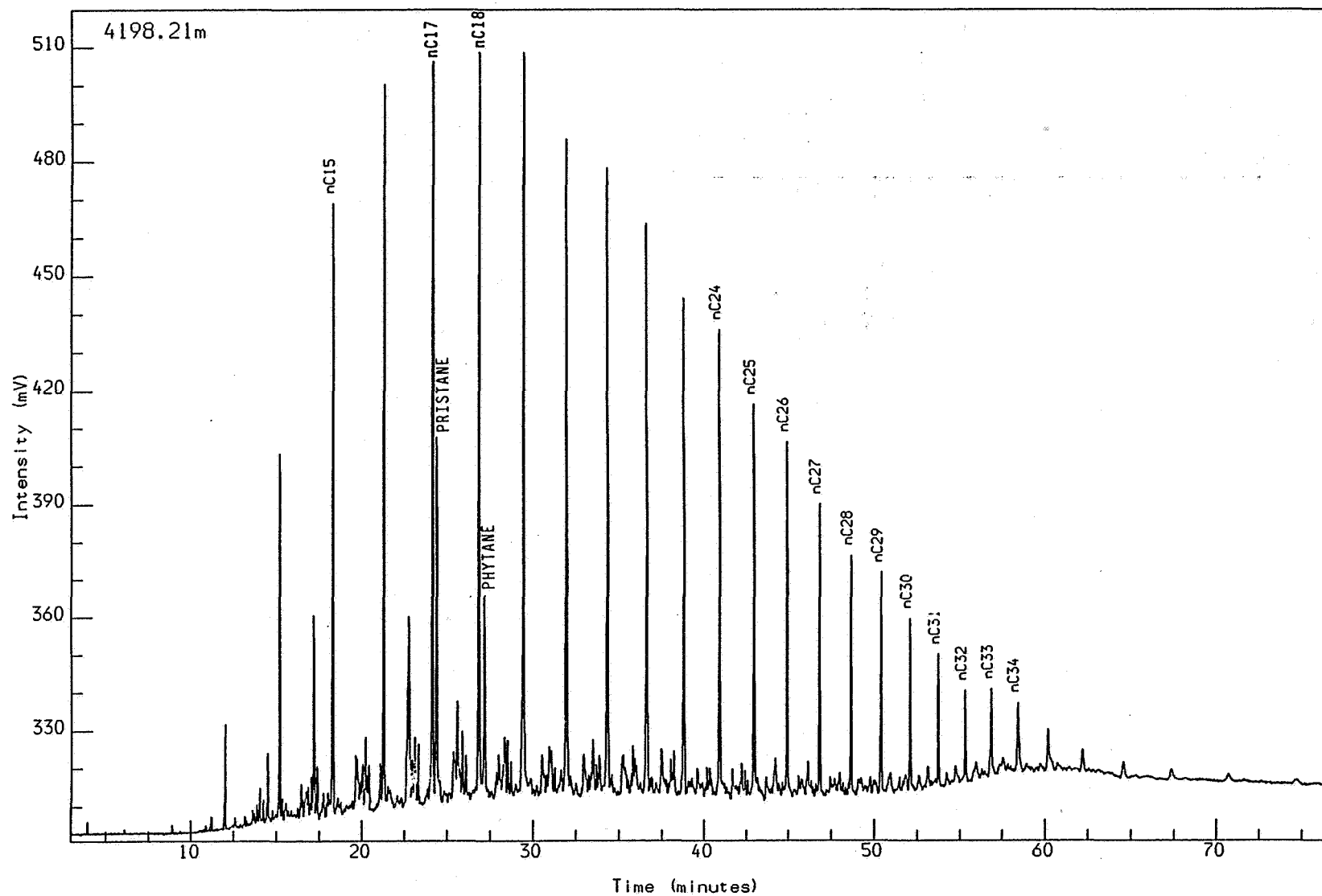


WELL NOCS 6506/11-3 4173.44m ccp
 SATURATED GC
 S/Sst: lt gy w to m gy to lt brn gy

Reported on 18-DEC-1992 at 14:10.

Analysis Name : [60218] 5 SH9400271L,11,1.

Multichrom



WELL NOCS 6506/11-3 4198.21m ccp
SATURATED GC
S/Sst: lt brn gy to pl y brn

Reported on 18-DEC-1992 at 14:12

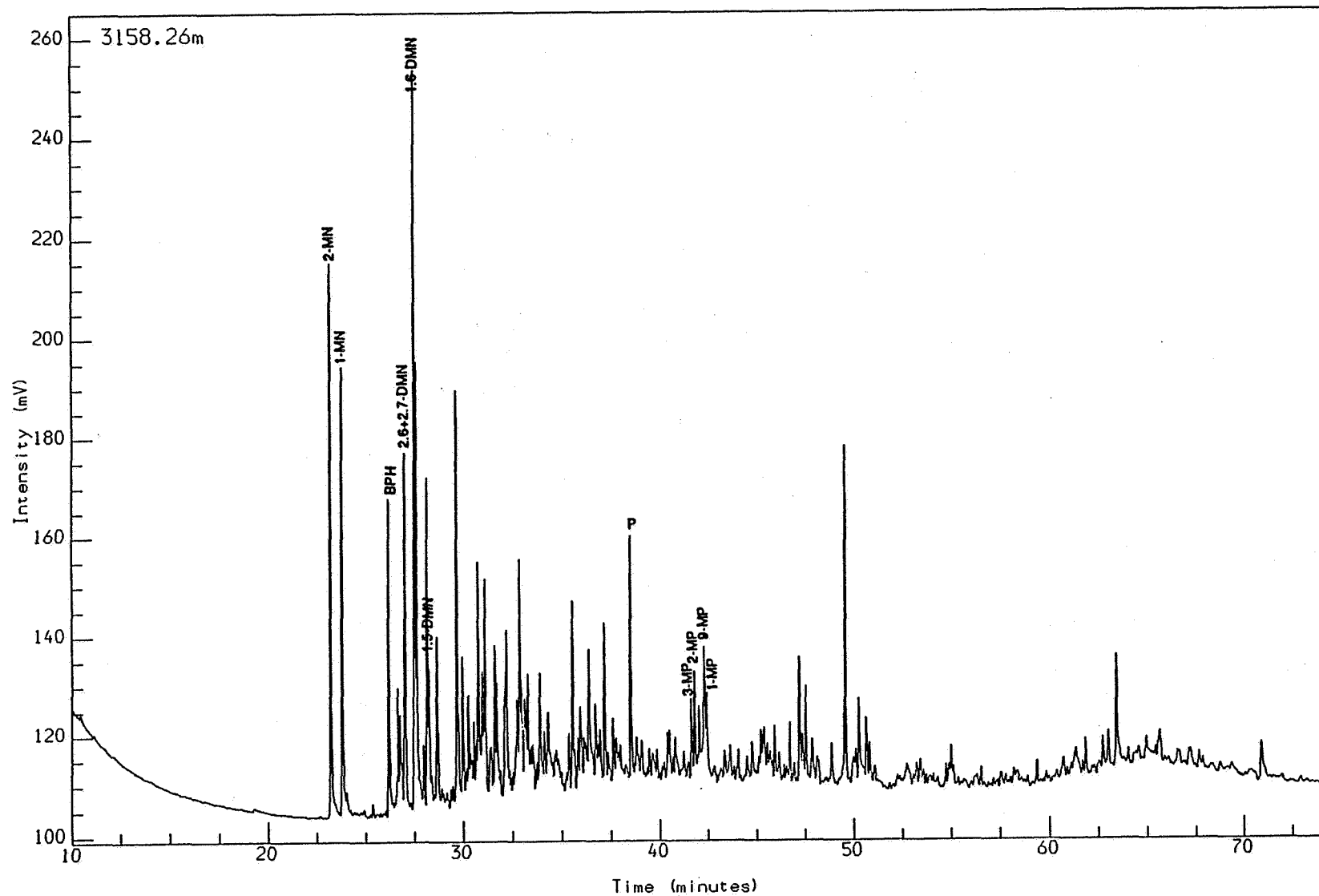
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400271L.2.1.

Multichrom



WELL NOCS 6506/11-3 3158.26m ccp
AROMATIC GC (FID)
Sh/Clst: m gy

Reported on 18-DEC-1992 at 14:20

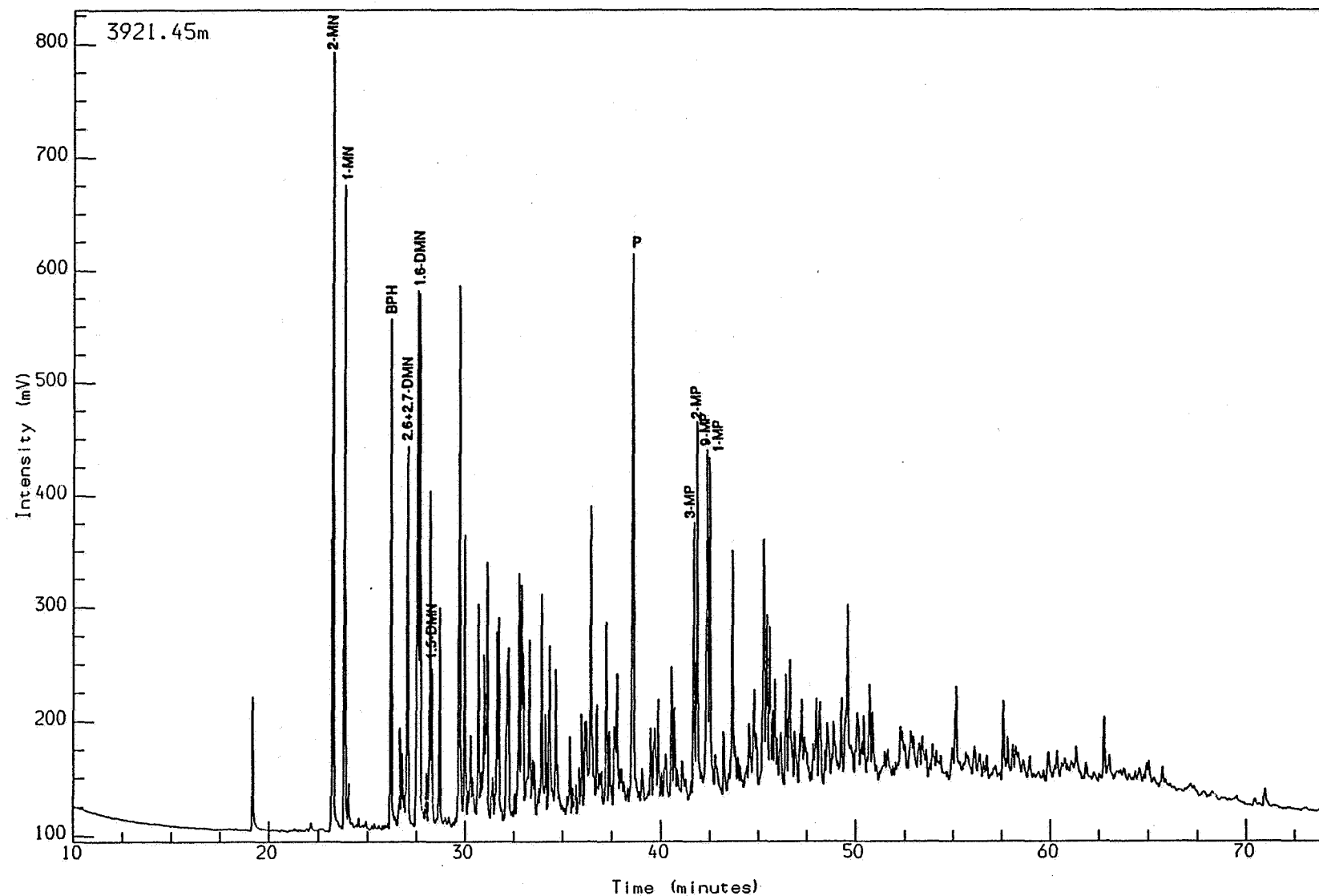
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400271L.3.1.

Multichrom



WELL NOCS 6506/11-3 3921.45m ccp
AROMATIC GC (FID)
Sh/Clst: m gy to drk gy

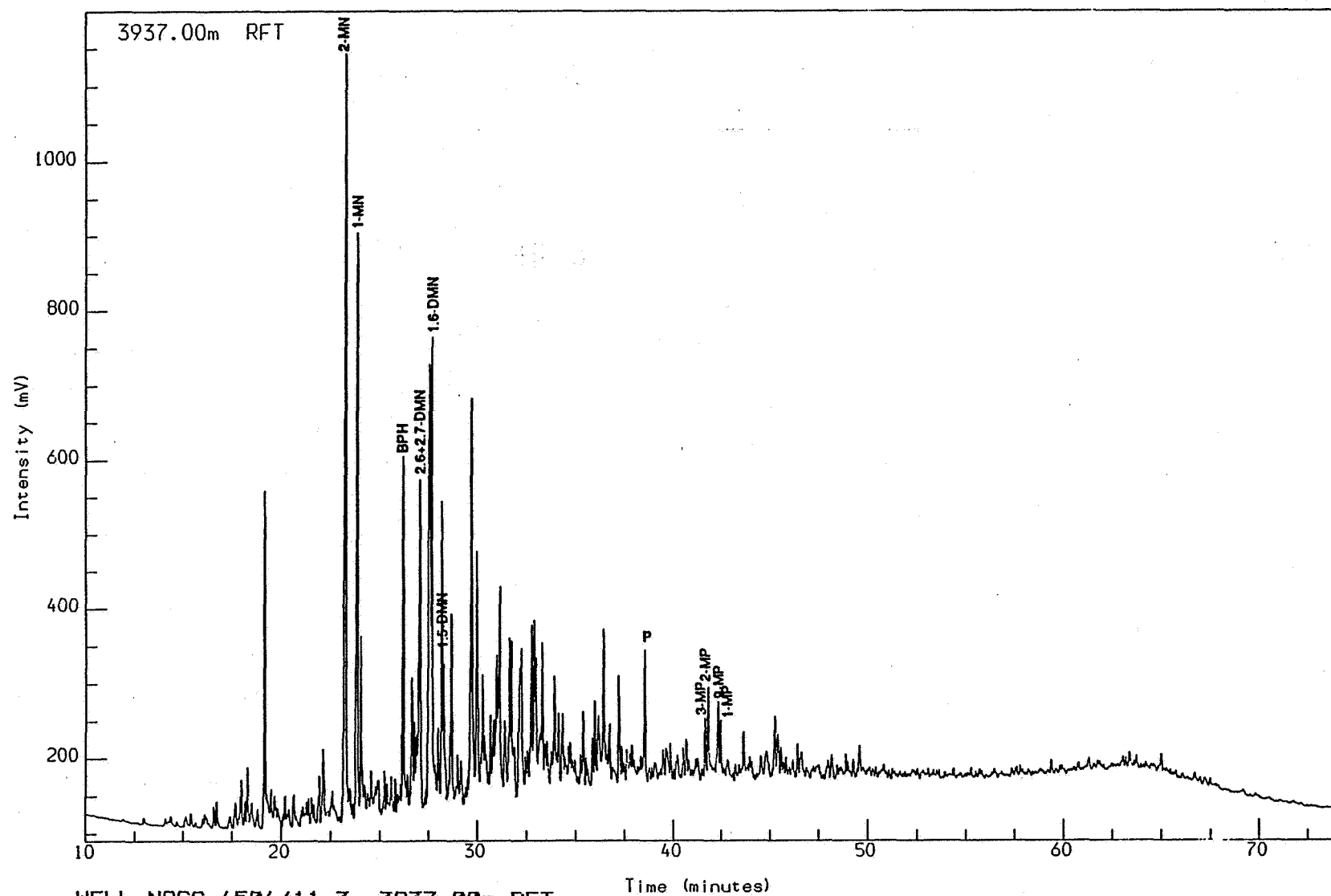
Reported on 18-DEC-1992 at 14:22

Schlumberger GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 29 AH9400171L,3,1.

Multichrom



WELL NOCS 6506/11-3 3937.00m RFT
AROMATIC GC (FID)

Reported on 18-DEC-1992 at 15:59

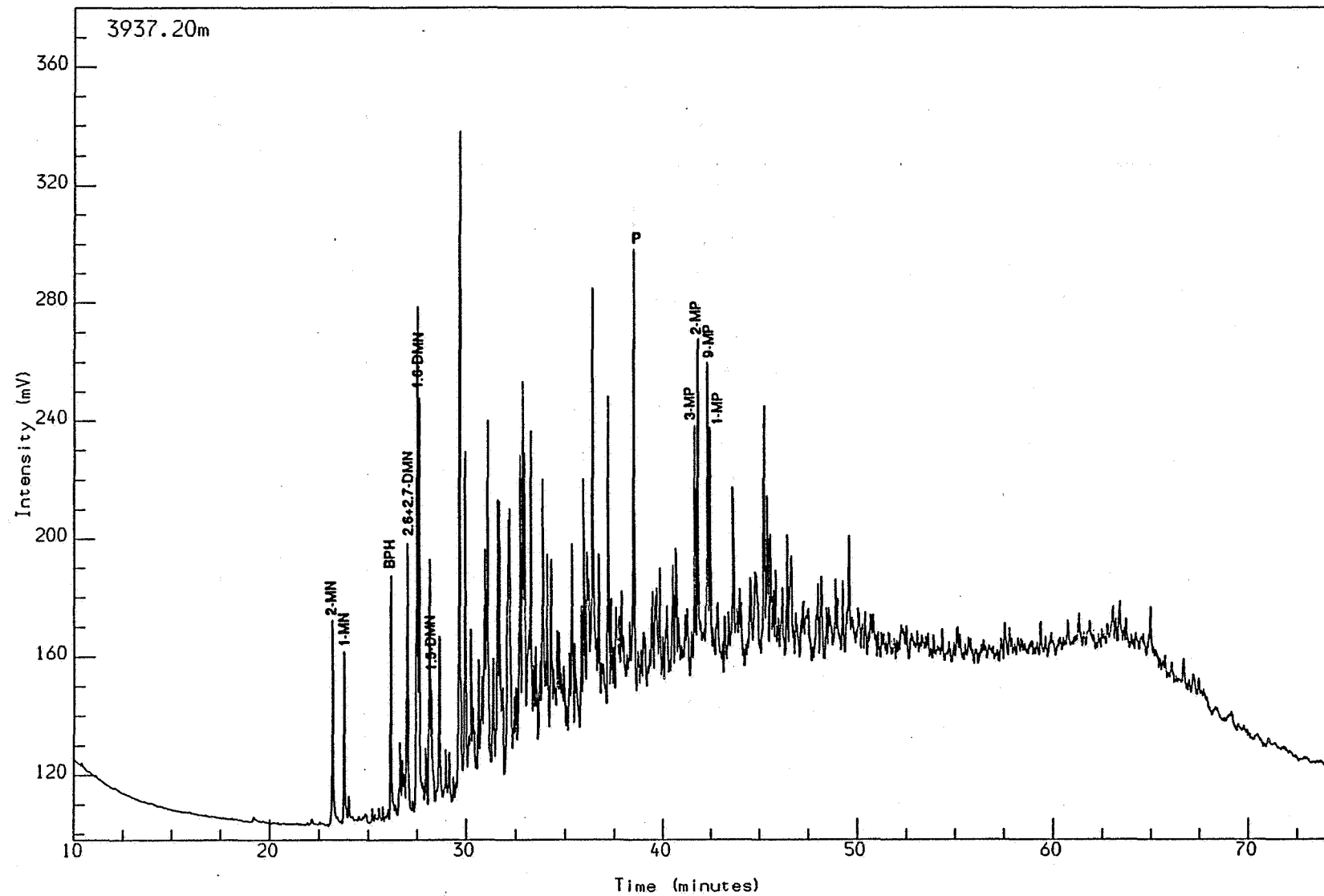
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400271L,4,1.

Multichrom



WELL NOCS 6506/11-3 3937.20m ccp
AROMATIC GC (FID)
S/Sst: y gy to 1t brn gy

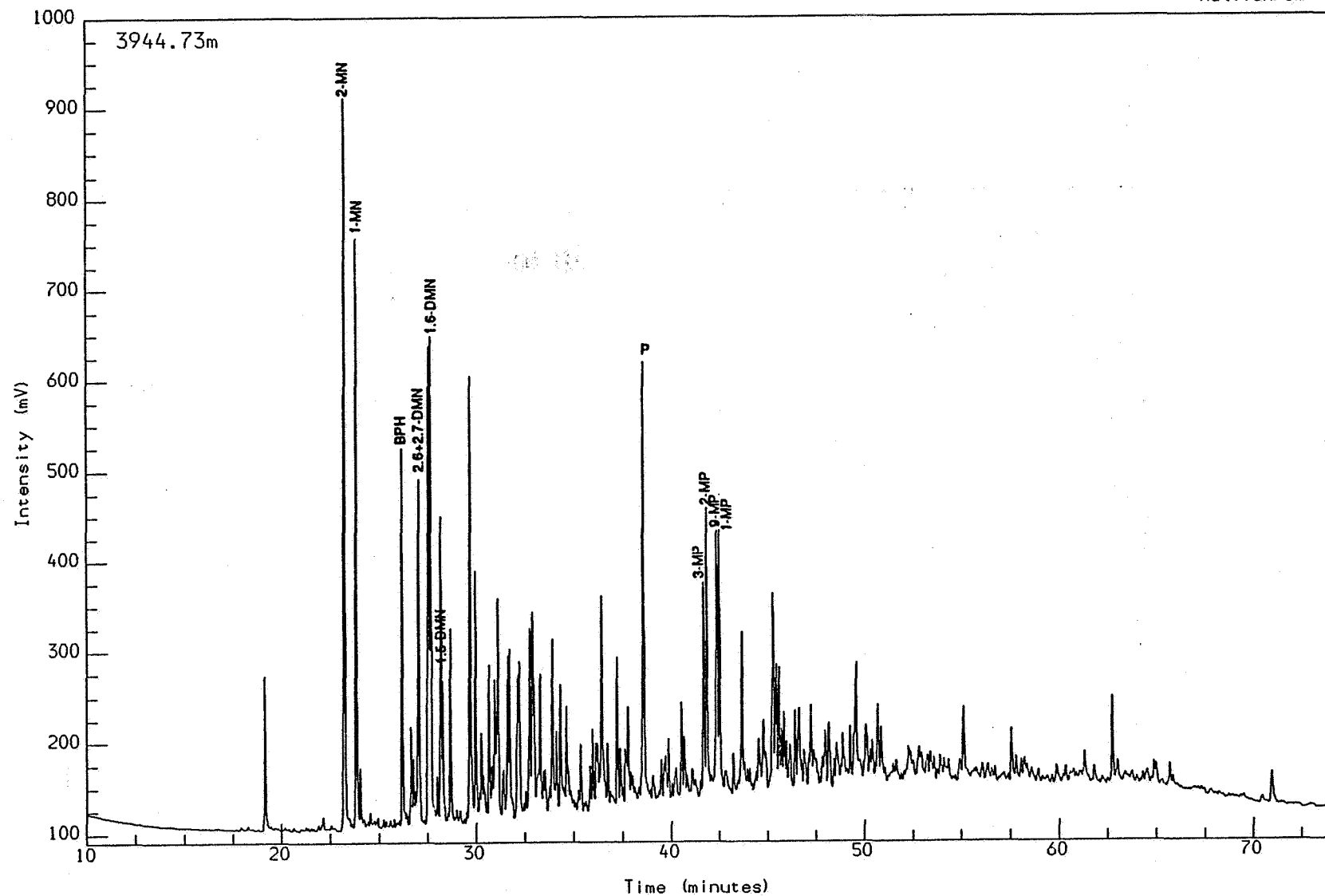
Reported on 18-DEC-1992 at 14:26

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400271L.5.1.

Multichrom



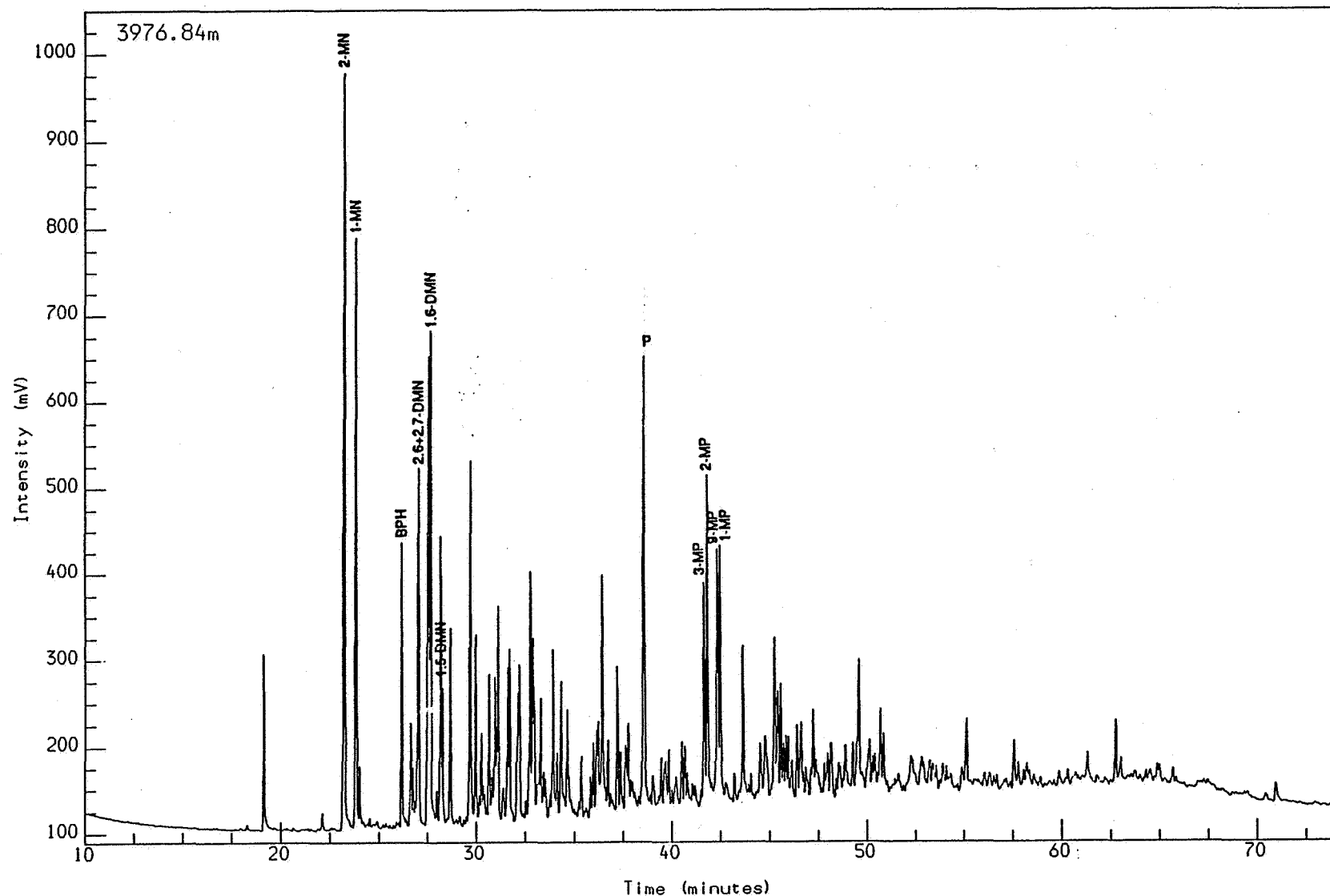
WELL NOCS 6506/11-3 3944.73m ccp
AROMATIC GC (FID)
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 14:39

Schlumberger

GECO-PRAKLA

GEOLAB  NOR

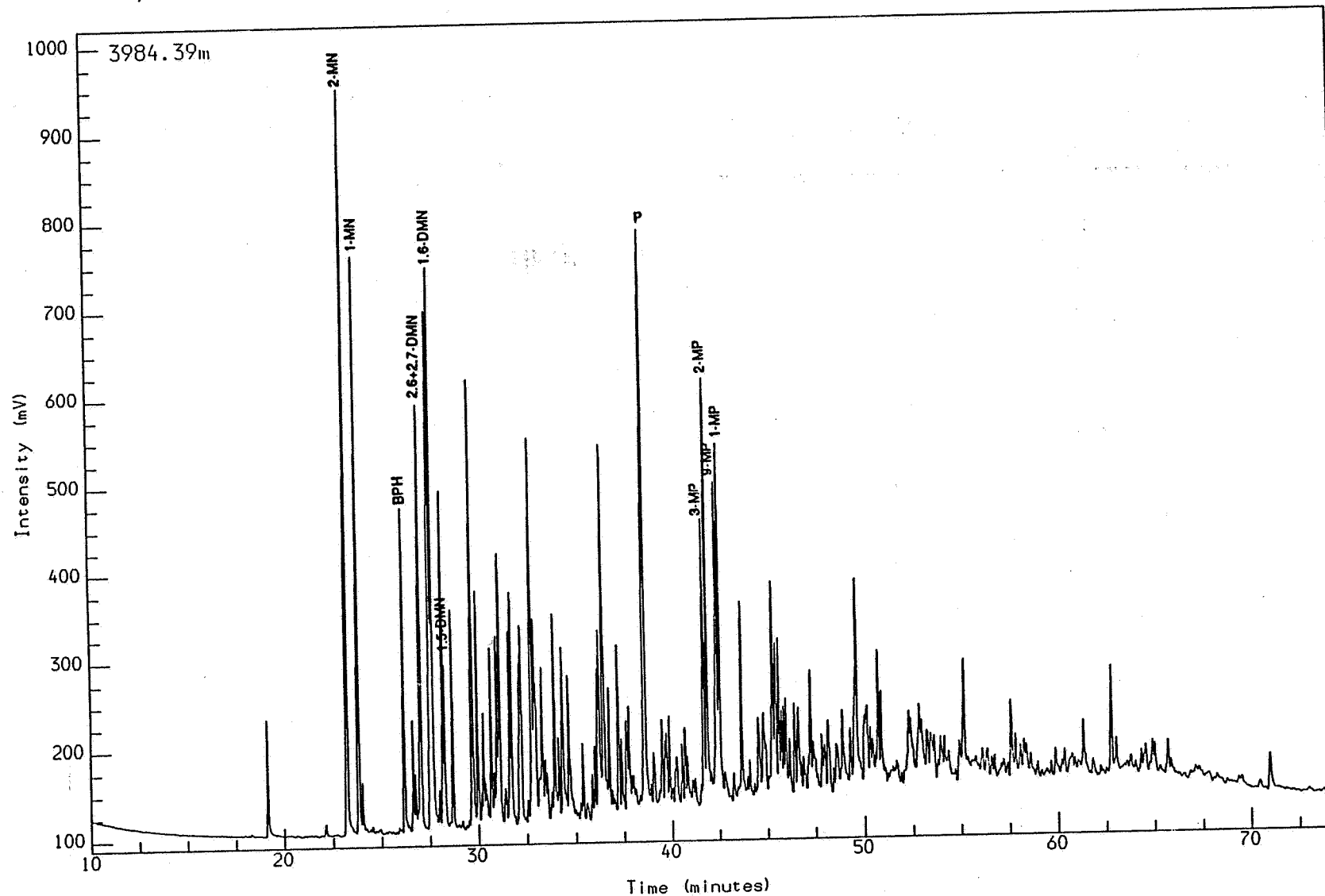


WELL NOCS 6506/11-3 3976.84m ccp
 AROMATIC GC (FID)
 Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 14:42

Analysis Name : [60218] 29 AH9400271L,7,1.

Multichrom



WELL NOCS 6506/11-3 3984.39m ccp
AROMATIC GC (FID)
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 14:44

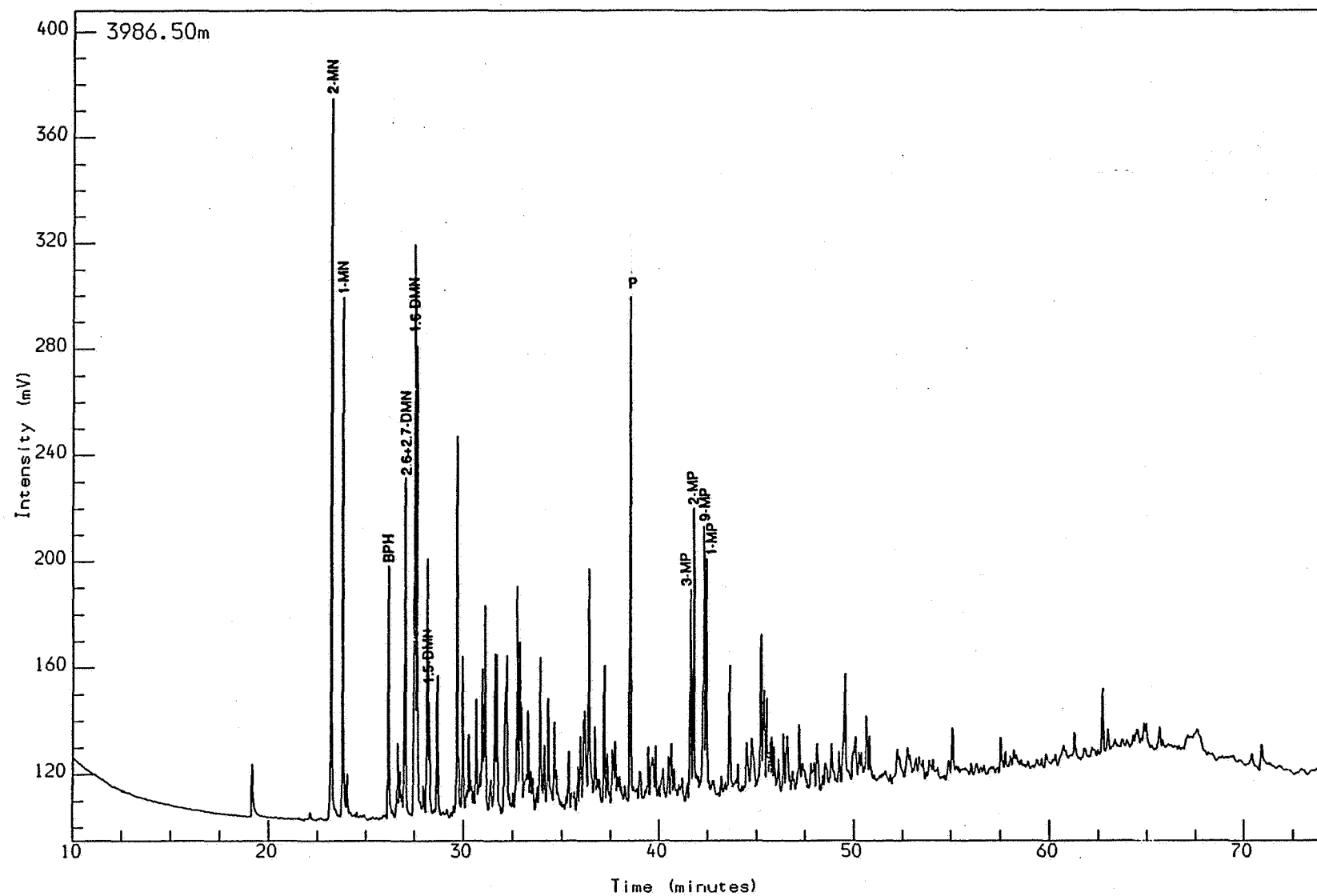
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 29 AH9400271L.8.1.

Multichrom



WELL NOCS 6506/11-3 3986.50m ccp
AROMATIC GC (FID)
Sh/Clst: drk gy

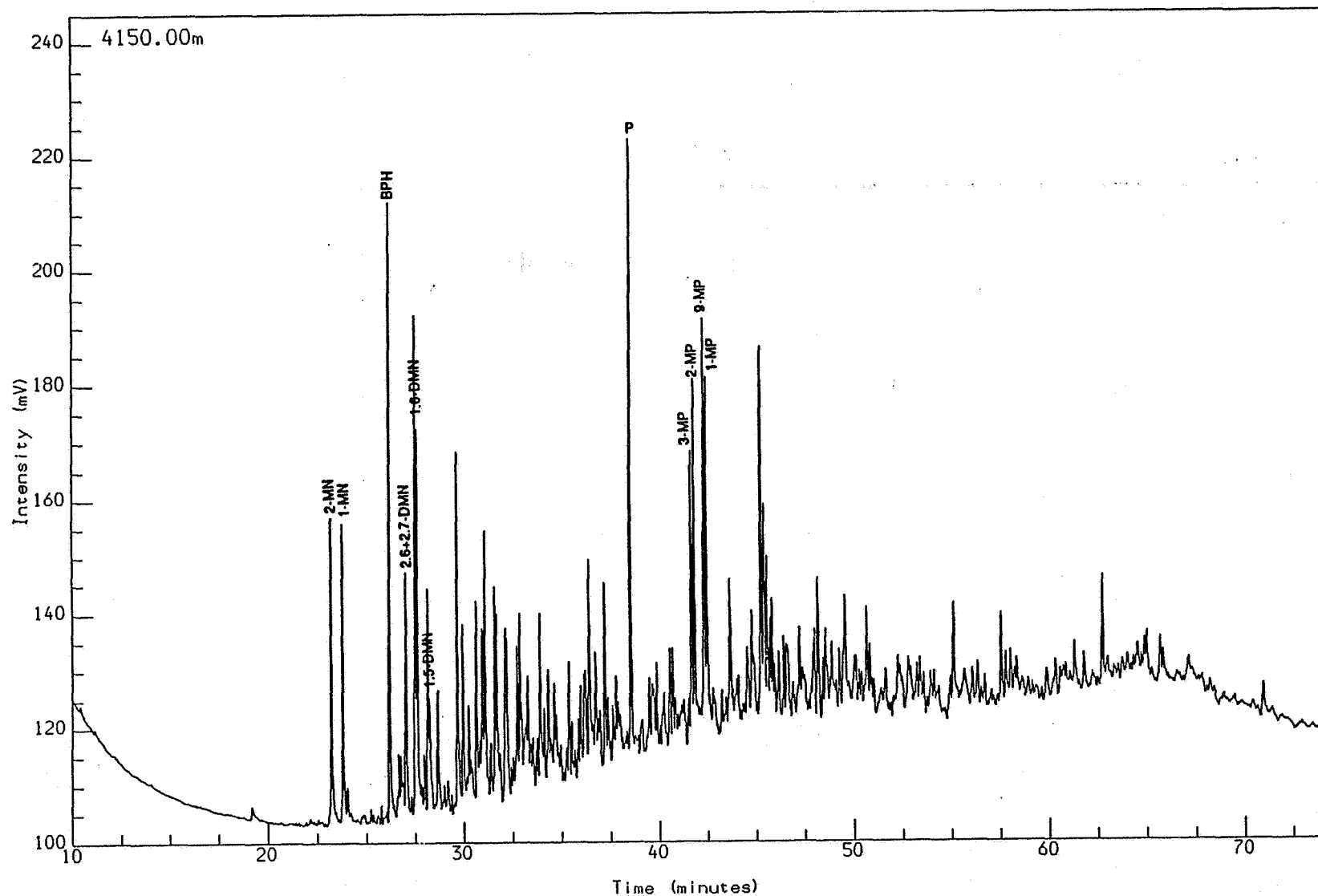
Reported on 18-DEC-1992 at 15:13

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400271L,9,1.

Multichrom



WELL NOCS 6506/11-3 4150.00m cut
AROMATIC GC (FID)
Sh/Clst: m gy to drk gy to dsk y brn

Reported on 18-DEC-1992 at 15:15

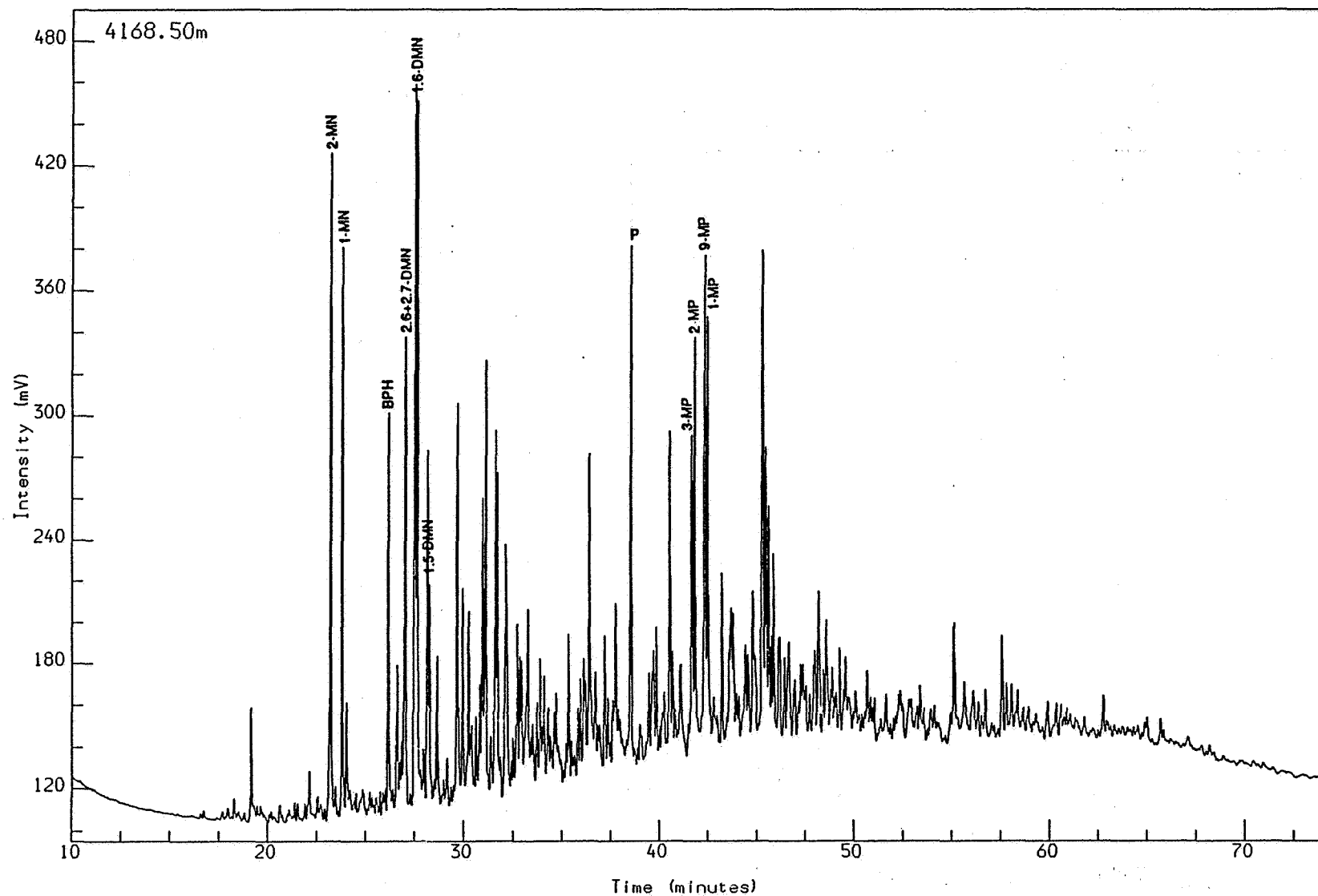
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400271L.10.1.

Multichrom



WELL NOCS 6506/11-3 4168.50m swc
AROMATIC GC (FID)
Sh/Clst: dsk y brn to brn blk

Reported on 18-DEC-1992 at 15:16

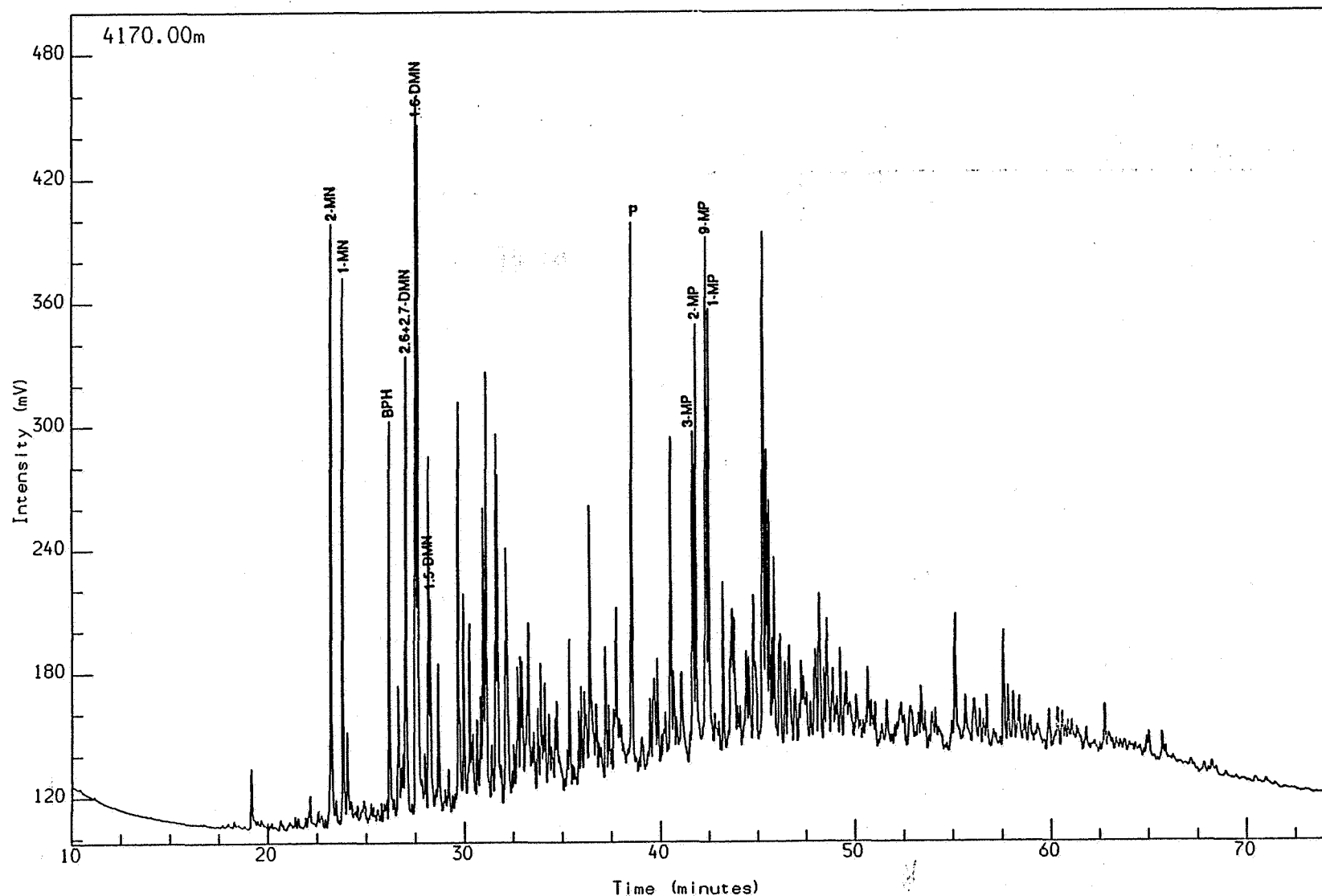
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400171L,2,1.

Multichrom



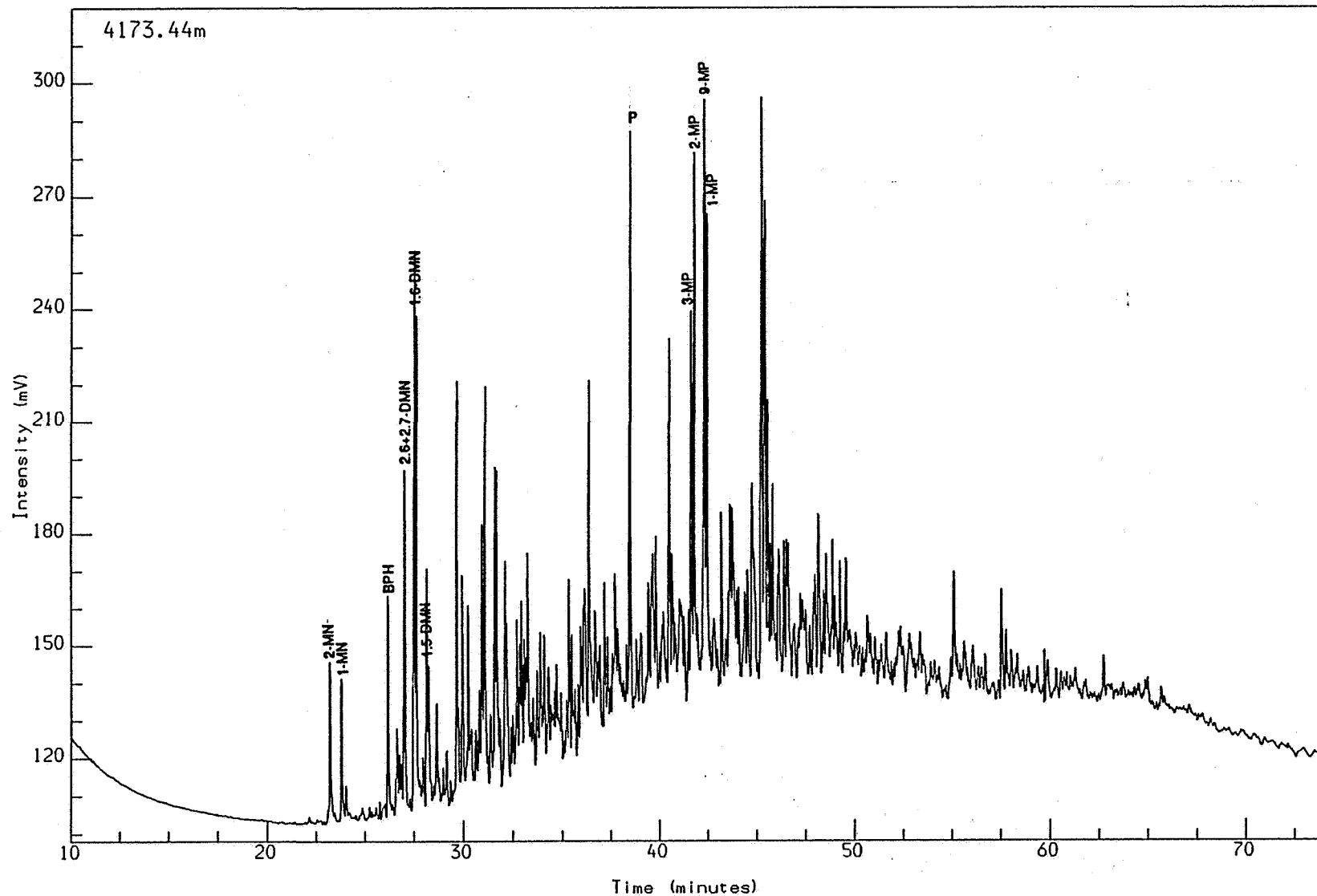
WELL NOCS 6506/11-3 4170.00m cut
AROMATIC GC (FID)
Sh/Clst: dsk y brn to brn blk

Reported on 18-DEC-1992 at 15:18

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 6506/11-3 4173.44m ccp
 AROMATIC GC (FID)
 S/Sst: lt gy w to m gy to lt brn gy

Reported on 18-DEC-1992 at 15:21

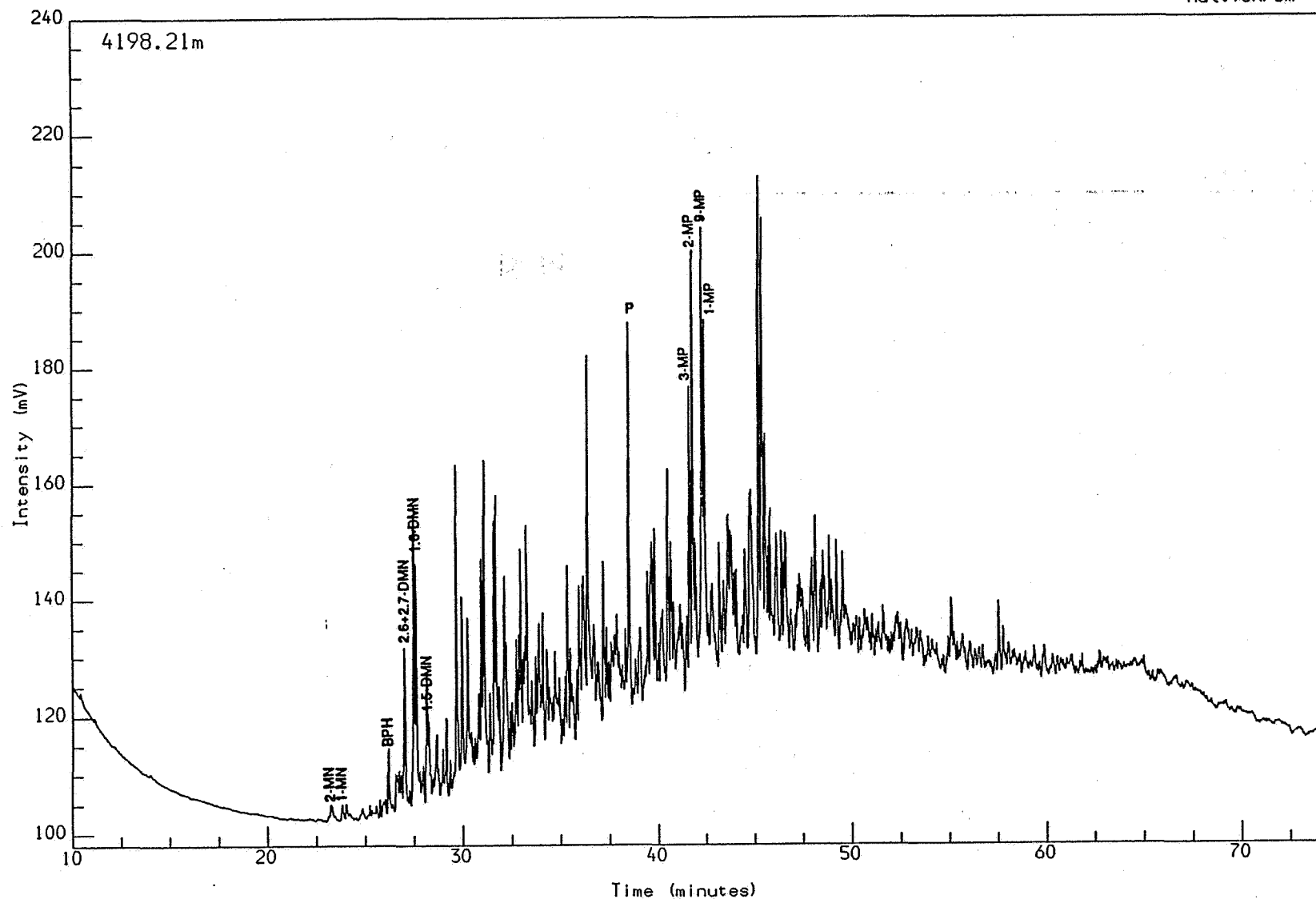
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 29 AH9400271L.12.1.

Multichrom



WELL NOCS 6506/11-3 4198.21m ccp
AROMATIC GC (FID)
S/Sst: lt brn gy to pl y brn

Reported on 18-DEC-1992 at 15:23

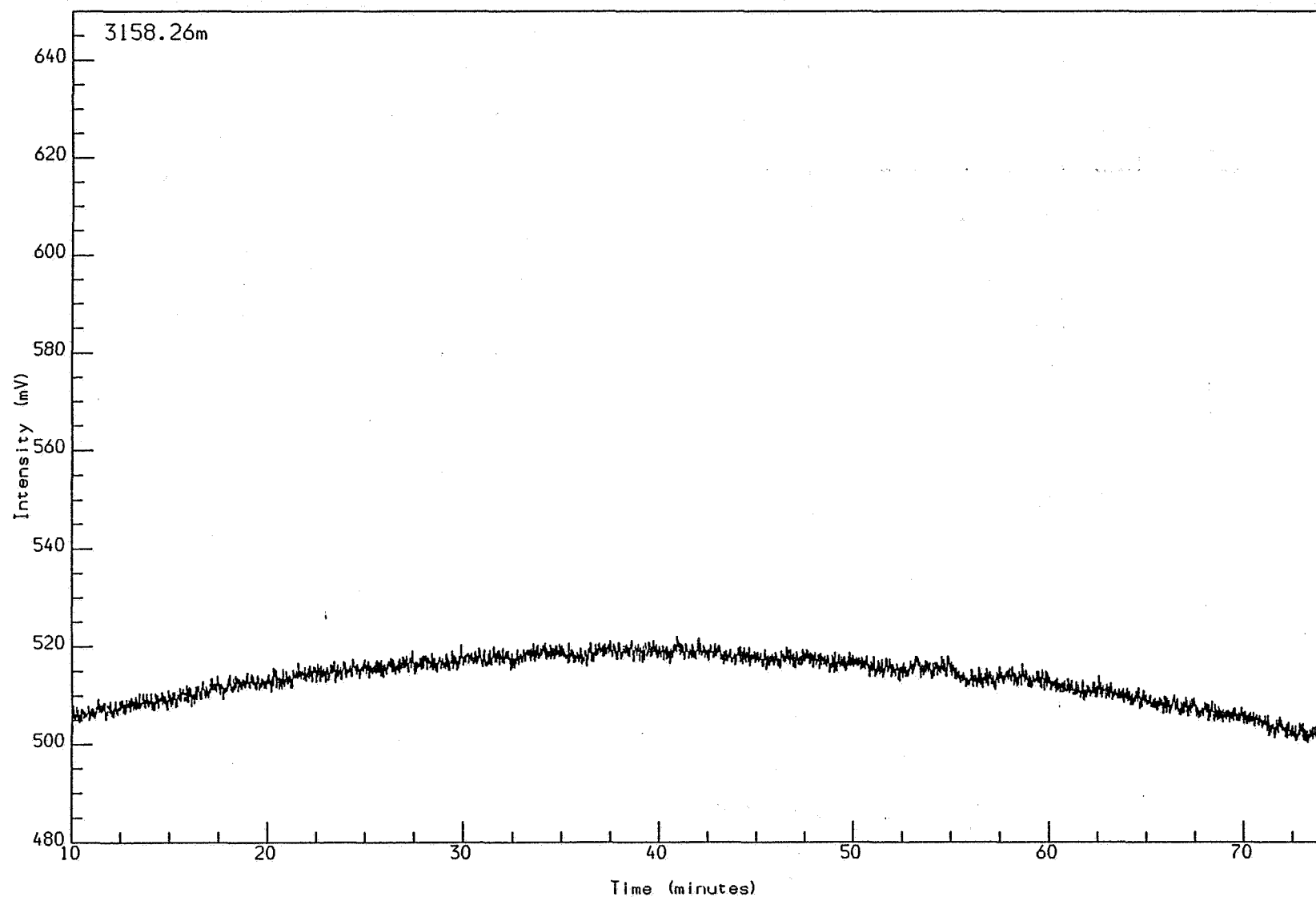
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 30 AH9400271L,2,1.

Multichrom



WELL NOCS 6506/11-3
AROMATIC GC (FPD)
Sh/Clst: m gy

3158.26m ccp

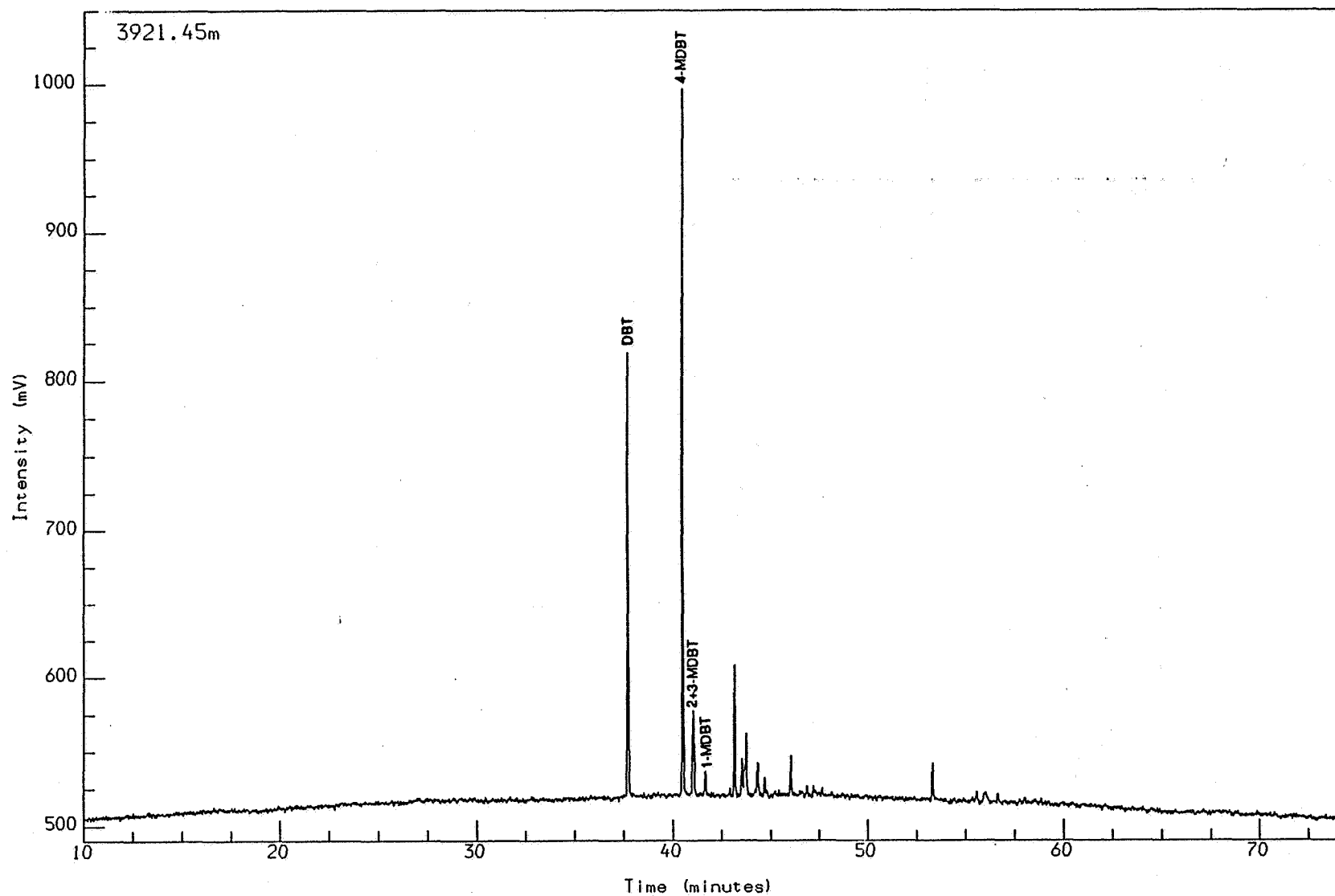
Reported on 18-DEC-1992 at 15:26

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 30 AH9400271L,3.1.

Multichrom



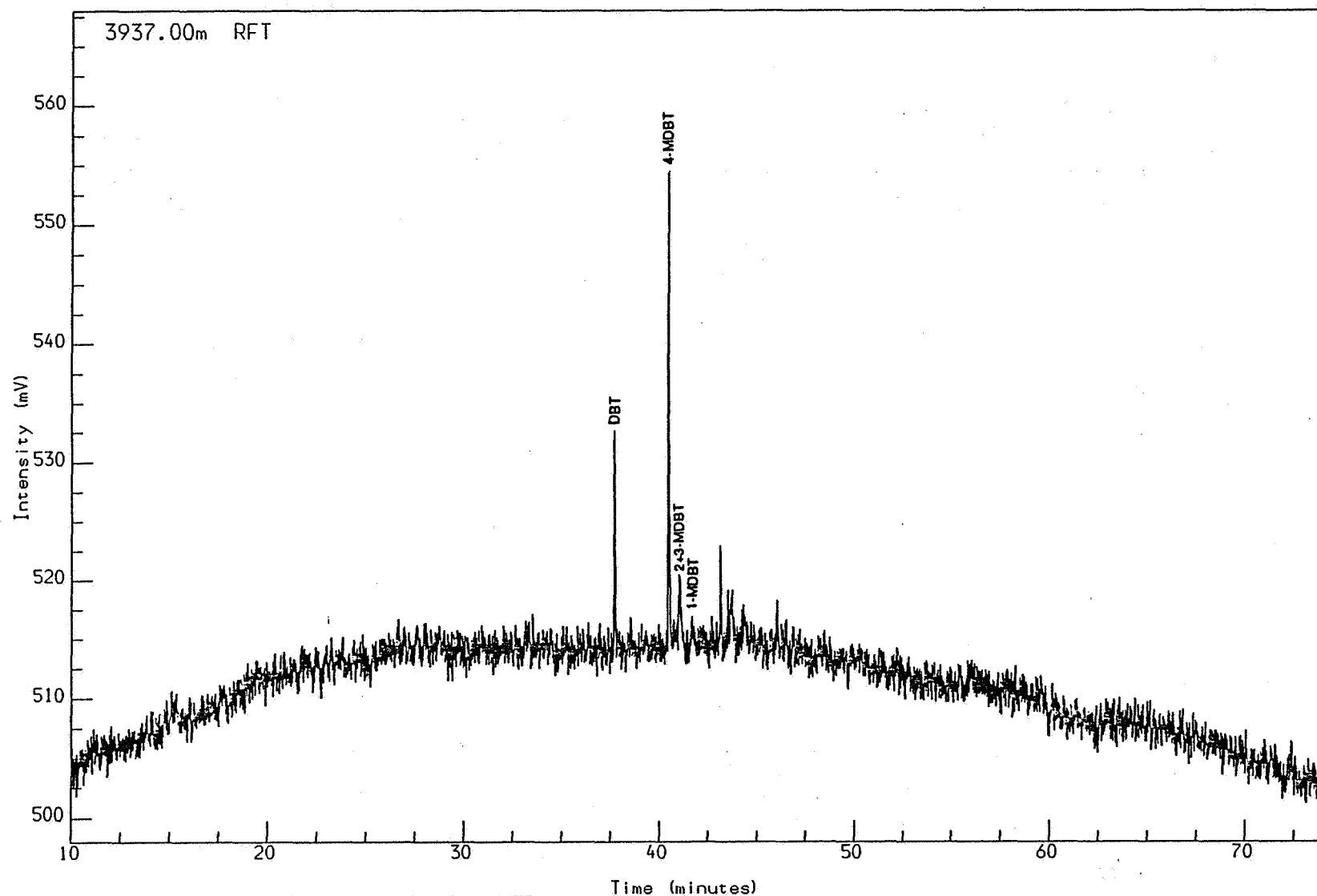
WELL NOCS 6506/11-3 3921.45m ccp
AROMATIC GC (FPD)
Sh/Clst: m gy to drk gy

Reported on 22-DEC-1992 at 13:07

Schlumberger

GECO-PRAKLA

GEOLAB  NOR

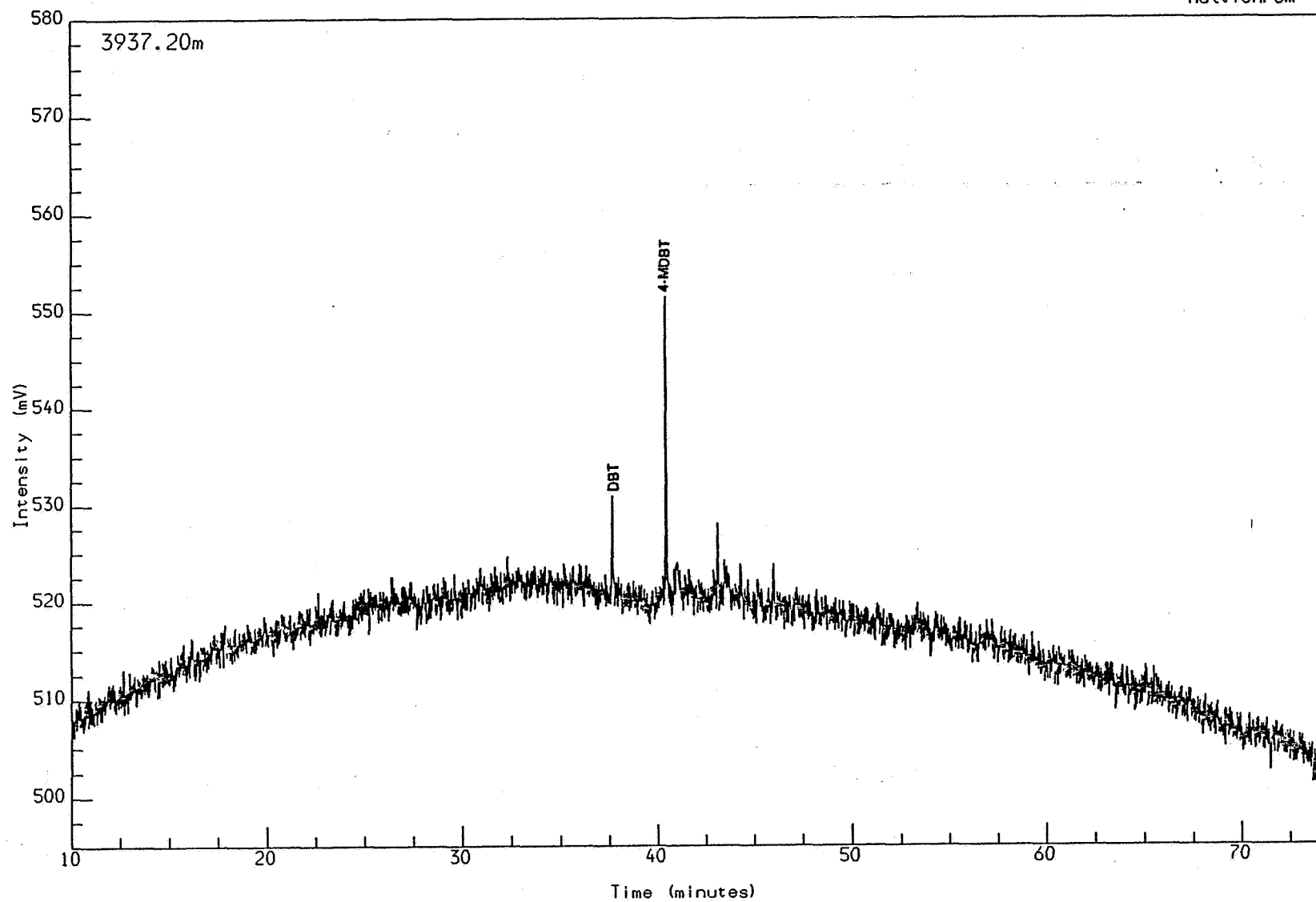


WELL NOCS 6506/11-3 3937.00m RFT
AROMATIC GC (FPD)

Reported on 18-DEC-1992 at 16:11

Analysis Name : [60218] 30 AH9400271L.4.1.

Multichrom



WELL NOCS 6506/11-3 3937.20m ccp
AROMATIC GC (FPD)
S/Sst: y gy to lt brn gy

Reported on 18-DEC-1992 at 15:32

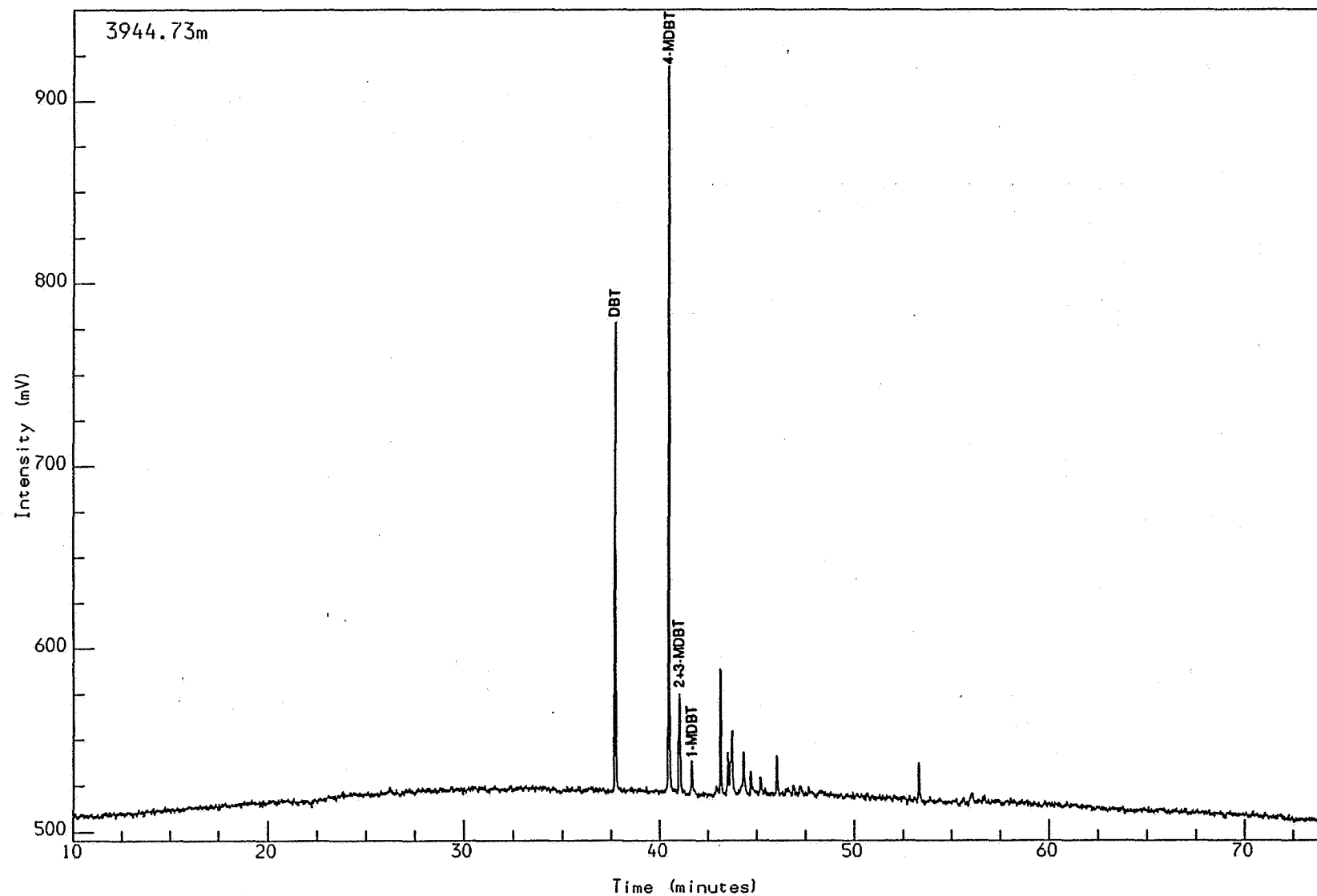
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 30 AH9400271L,5,1.

Multichrom



WELL NOCS 6506/11-3 3944.73m ccp
AROMATIC GC (FPD)
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 15:36

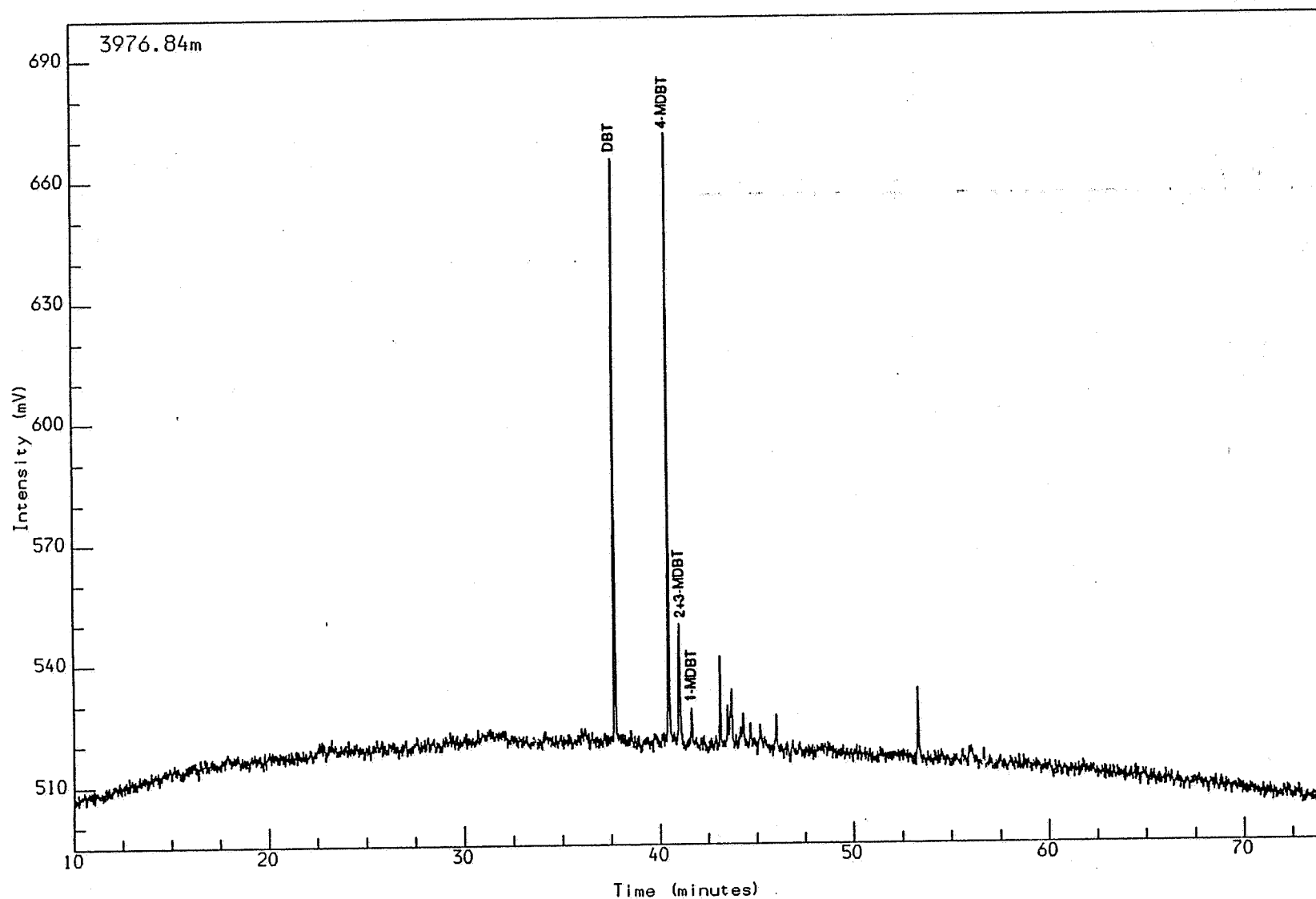
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 30 AH9400271L.6.1.

Multichrom



WELL NOCS 6506/11-3 3976.84m ccp
AROMATIC GC (FPD)
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 15:39

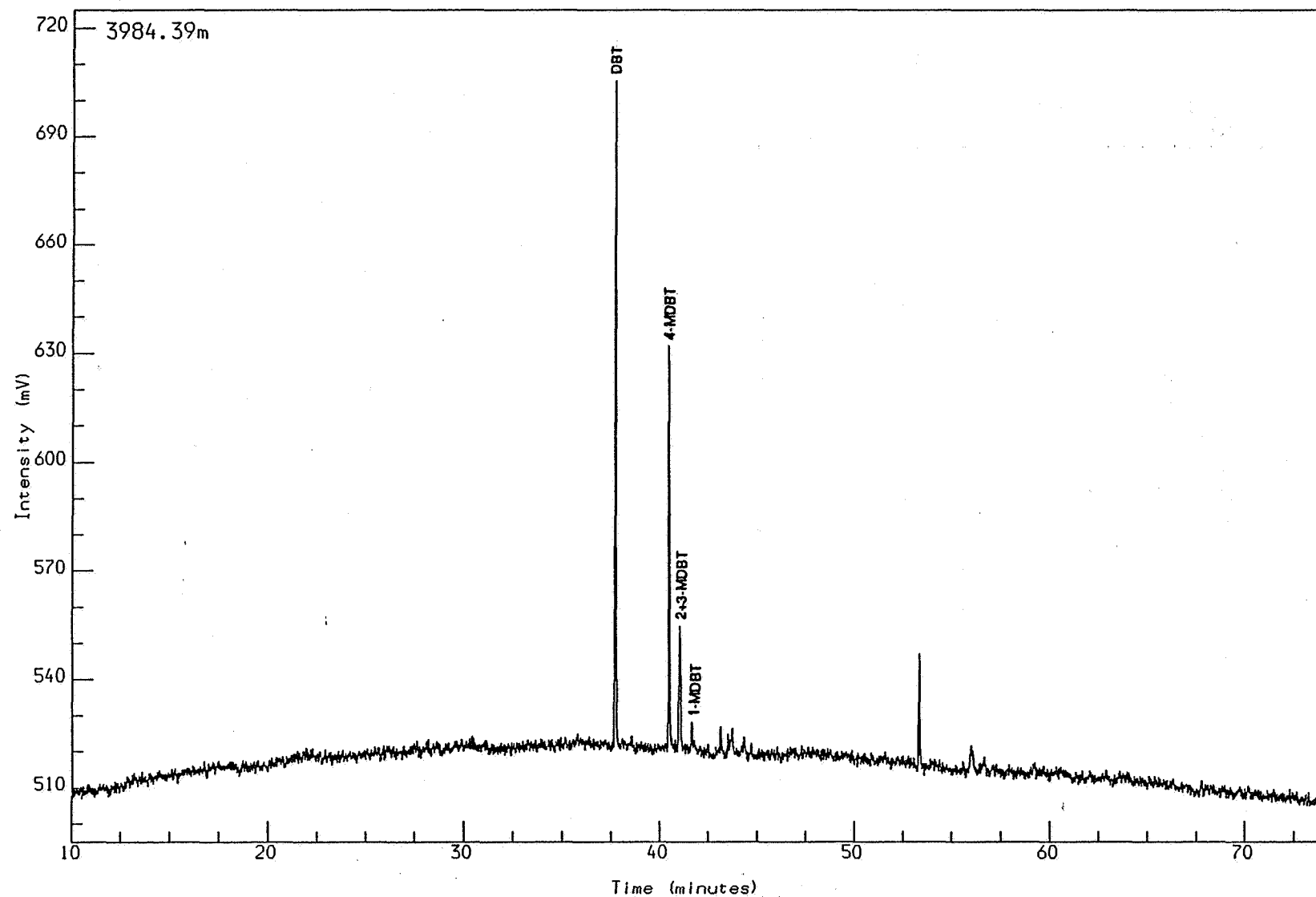
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 30 AH9400271L,7,1.

Multichrom



WELL NOCS 6506/11-3 3984.39m ccp
AROMATIC GC (FPD)
Sh/Clst: m gy to drk gy

Reported on 18-DEC-1992 at 15:41

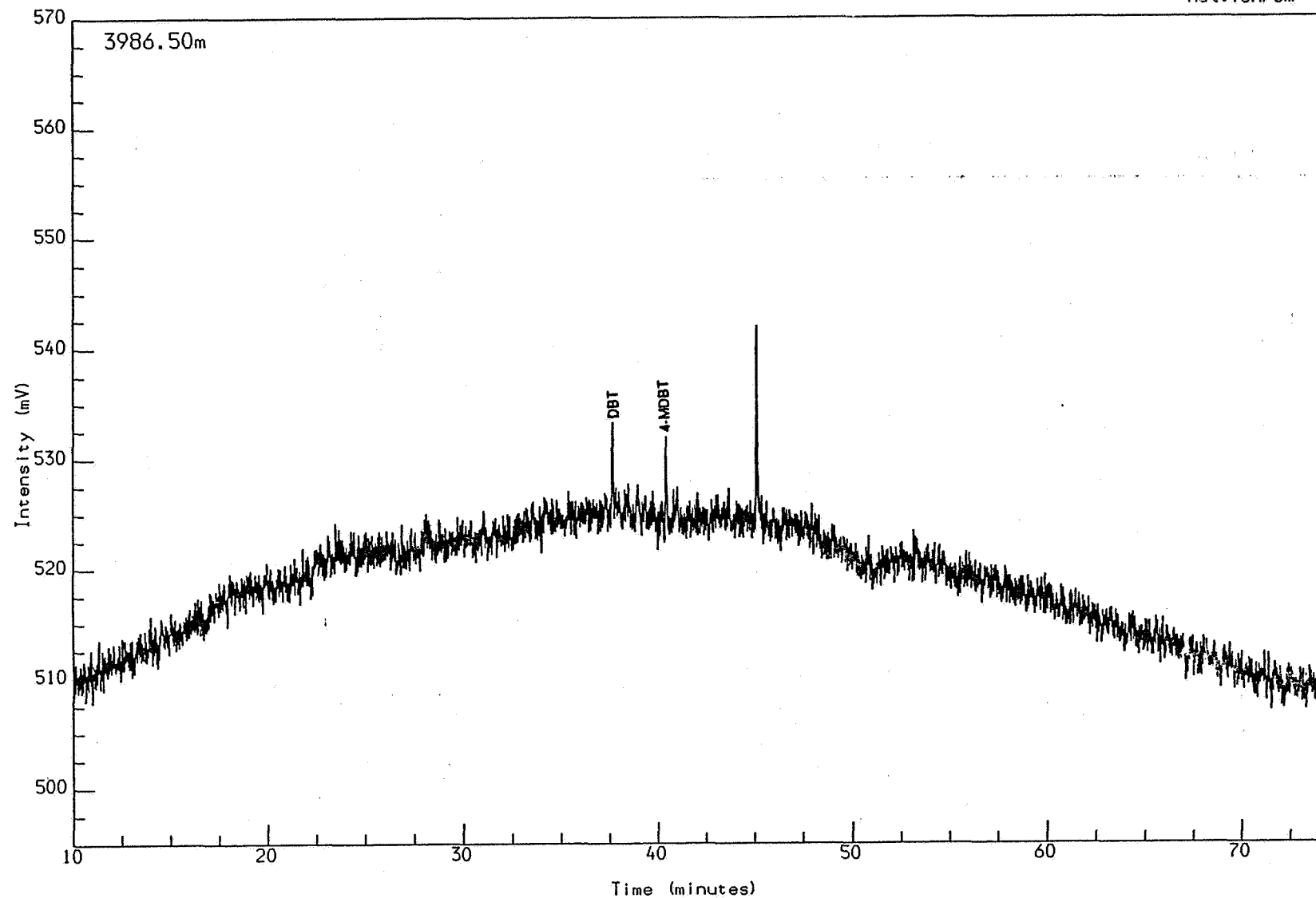
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 30 AH9400271L,8,1.

Multichrom



WELL NOCS 6506/11-3 3986.50m ccp
AROMATIC GC (FPD)
Sh/Clst: drk gy

Reported on 22-DEC-1992 at 13:13

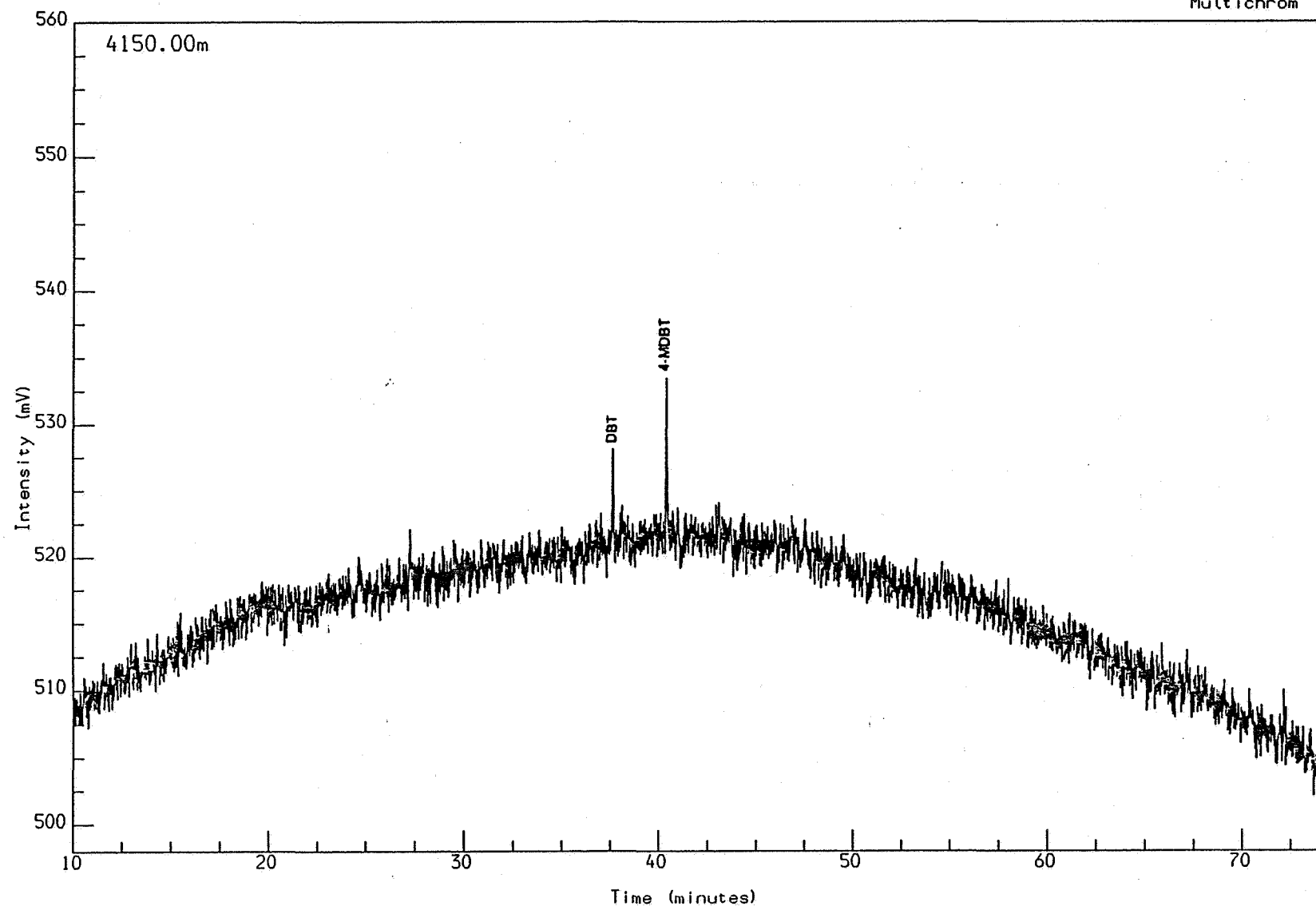
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 30 AH9400271L,9,1.

Multichrom



WELL NOCS 6506/11-3 4150.00m cut
AROMATIC GC (FPD)
Sh/Clst: m gy to drk gy to dsk y brn

Reported on 18-DEC-1992 at 15:46

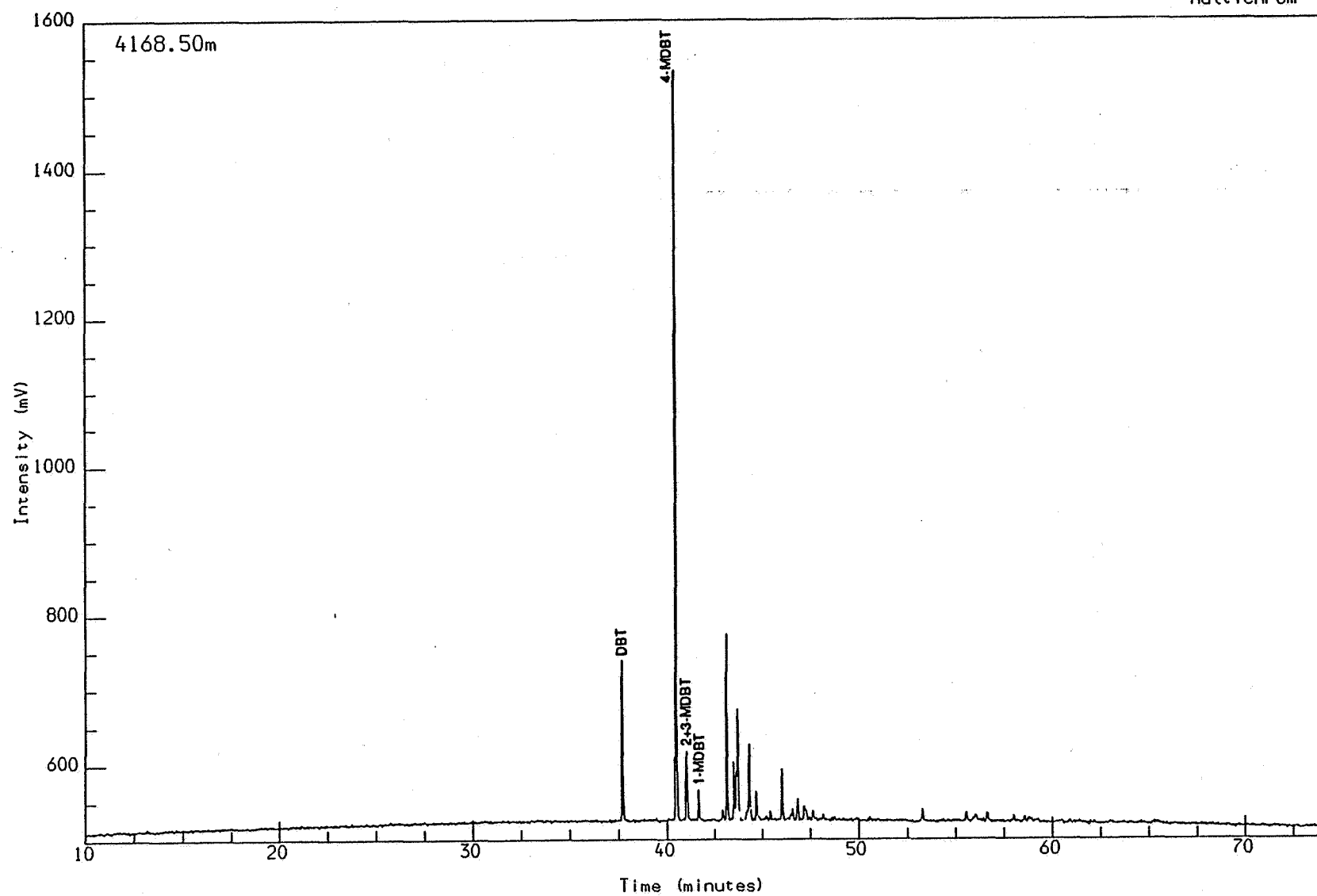
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [60218] 30 AH9400271L,10,1.

Multichrom



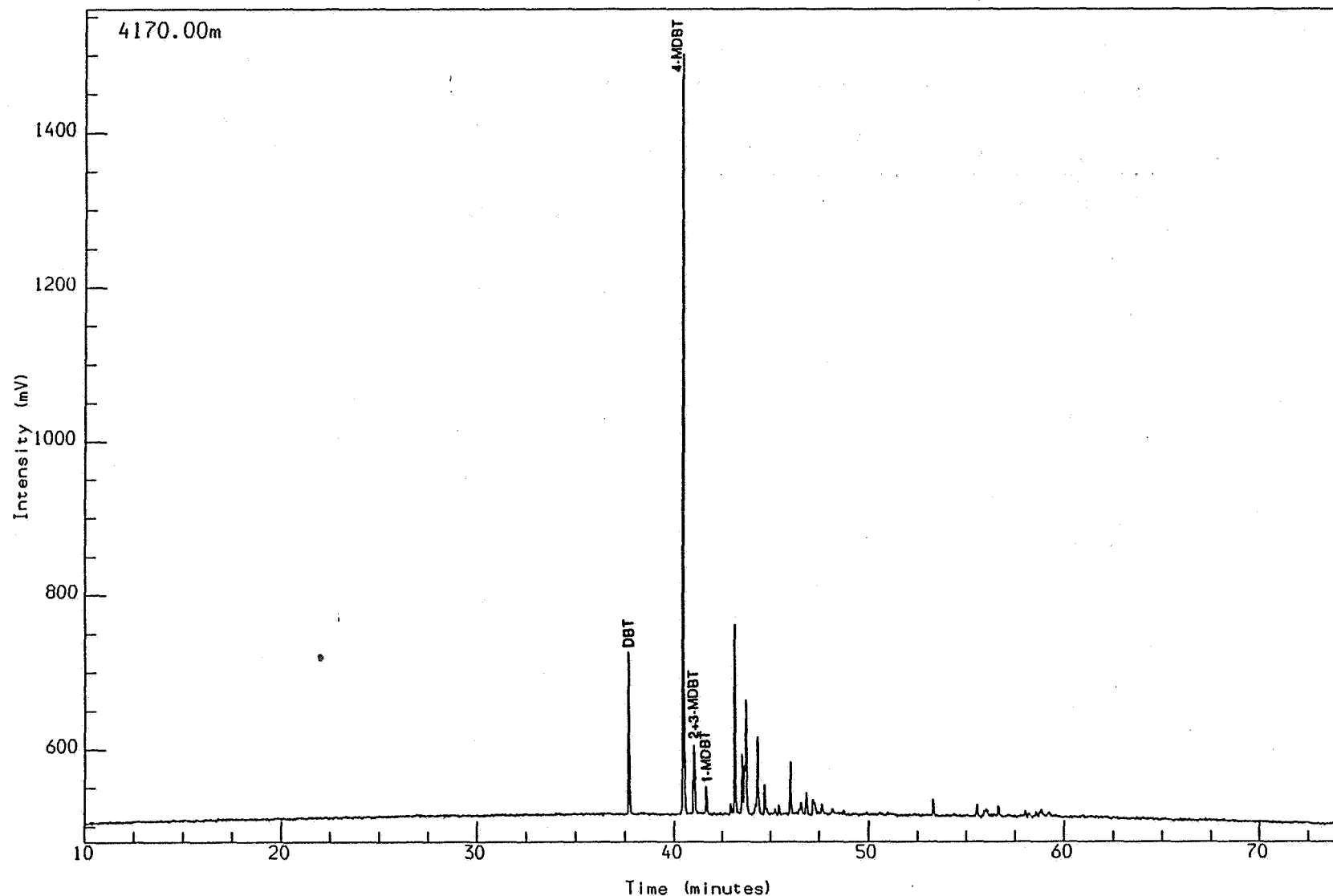
WELL NOCS 6506/11-3 4168.50m swc
AROMATIC GC (FPD)
Sh/Clst: dsk y brn to brn blk

Reported on 22-DEC-1992 at 13:14

Schlumberger

GECO-PRAKLA

GEOLAB  NOR



WELL NOCS 6506/11-3 4170.00m cut
 AROMATIC GC (FPD)
 Sh/Clst: dsk y brn to brn blk

Reported on 22-DEC-1992 at 13:05

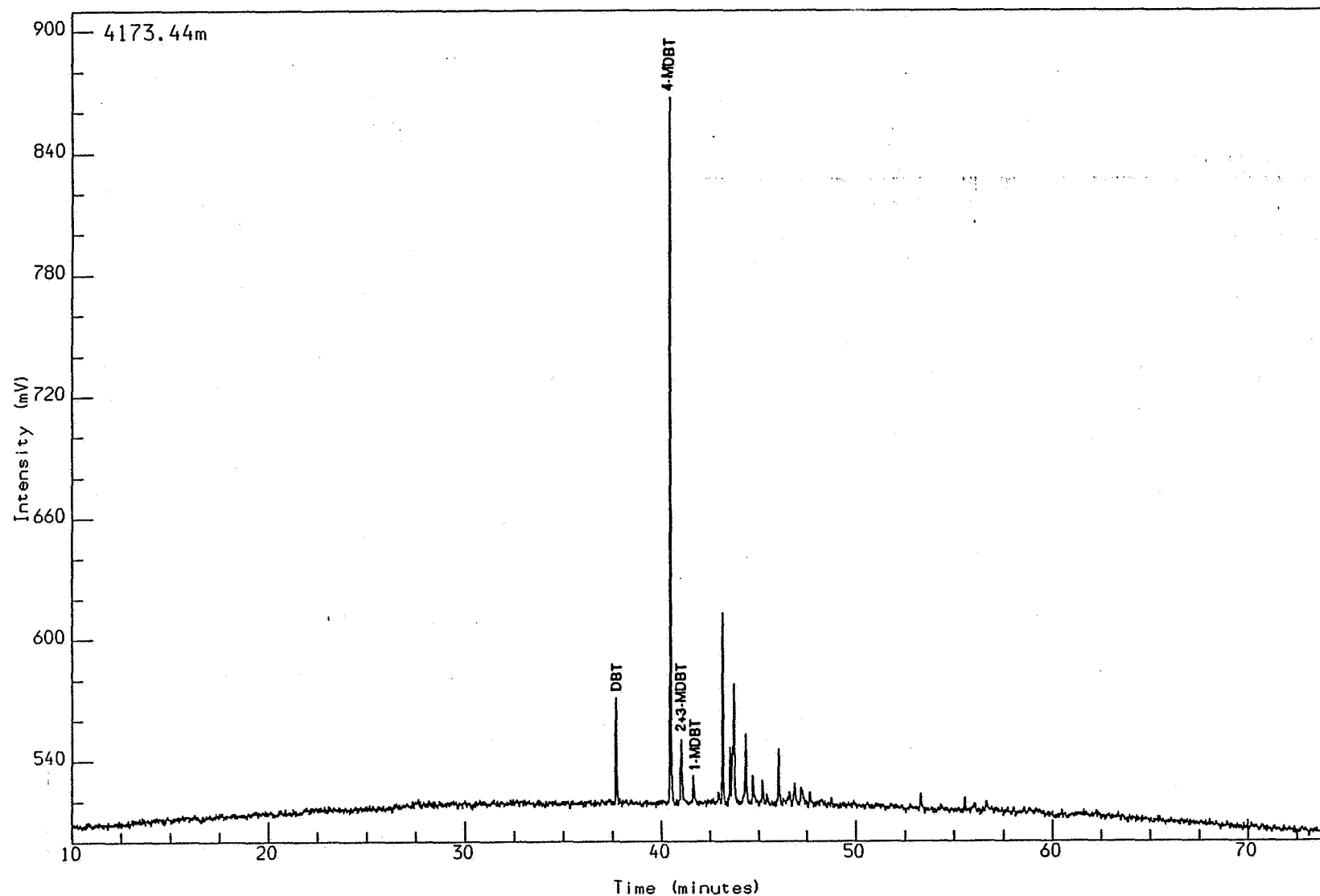
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [60218] 30 AH9400271L,11,1.

Multichrom



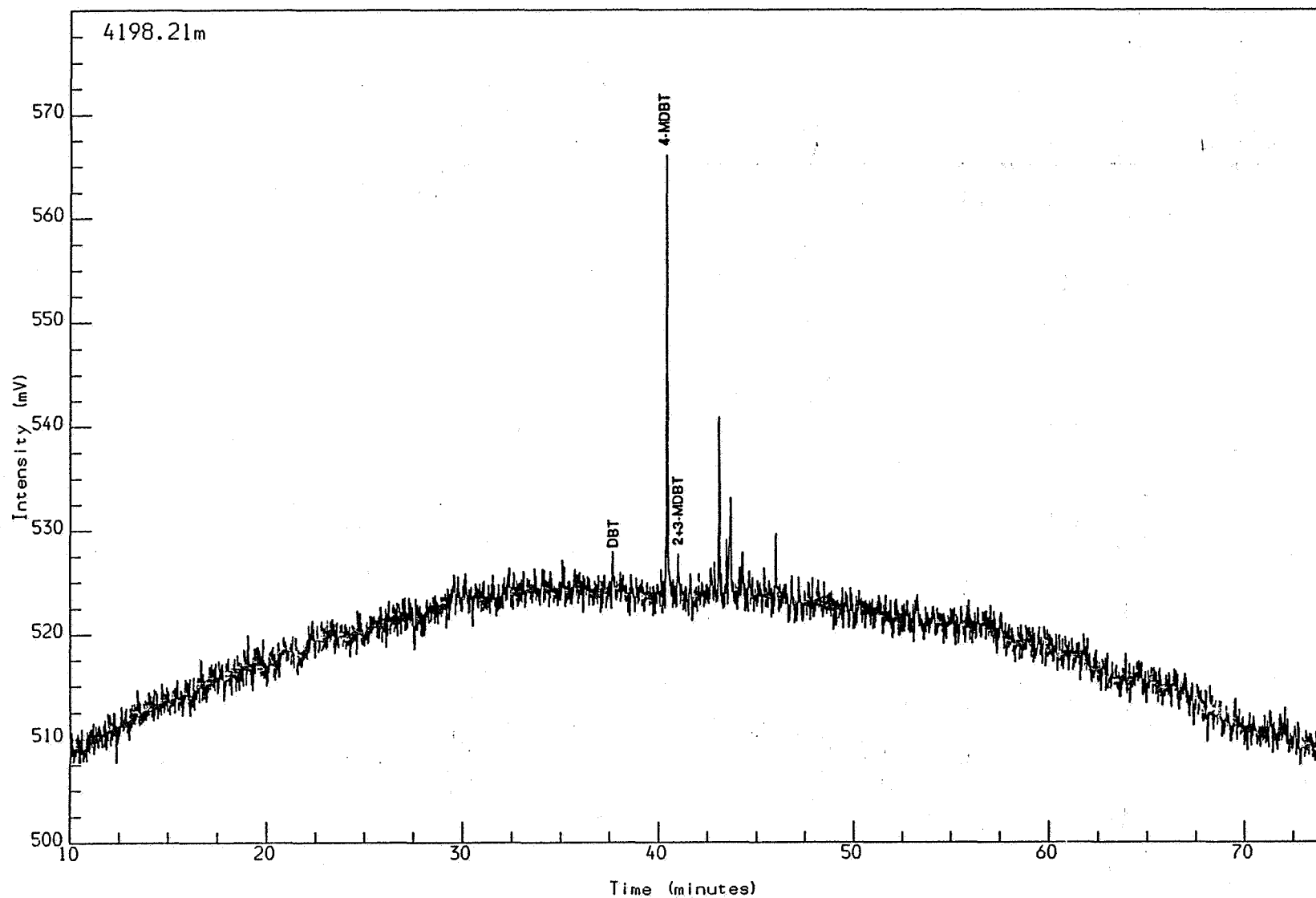
WELL NOCS 6506/11-3 4173.44m ccp
AROMATIC GC (FPD)
S/Sst: lt gy w to m gy to lt brn gy

Reported on 18-DEC-1992 at 15:49

Schlumberger

GECO-PRAKLA

GEOLAB NOR



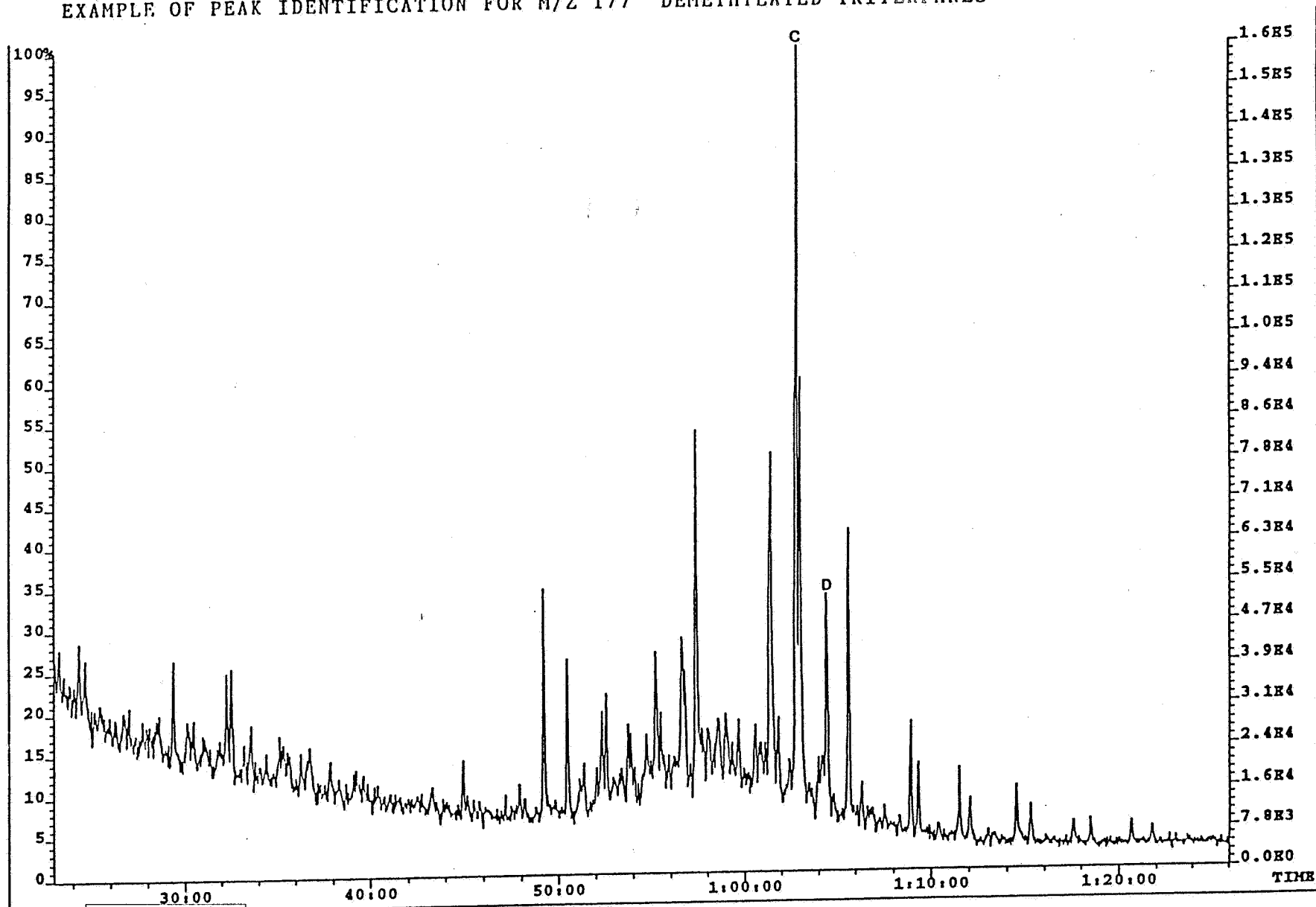
WELL NOCS 6506/11-3 4198.21m ccp
AROMATIC GC (FPD)
S/Sst: lt brn gy to pl y brn

Reported on 18-DEC-1992 at 15:52

Appendix 4

**Gas Chromatography - Mass Spectrometry;
Fragmentograms**

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 177 DEMETHYLATED TRITERPANES



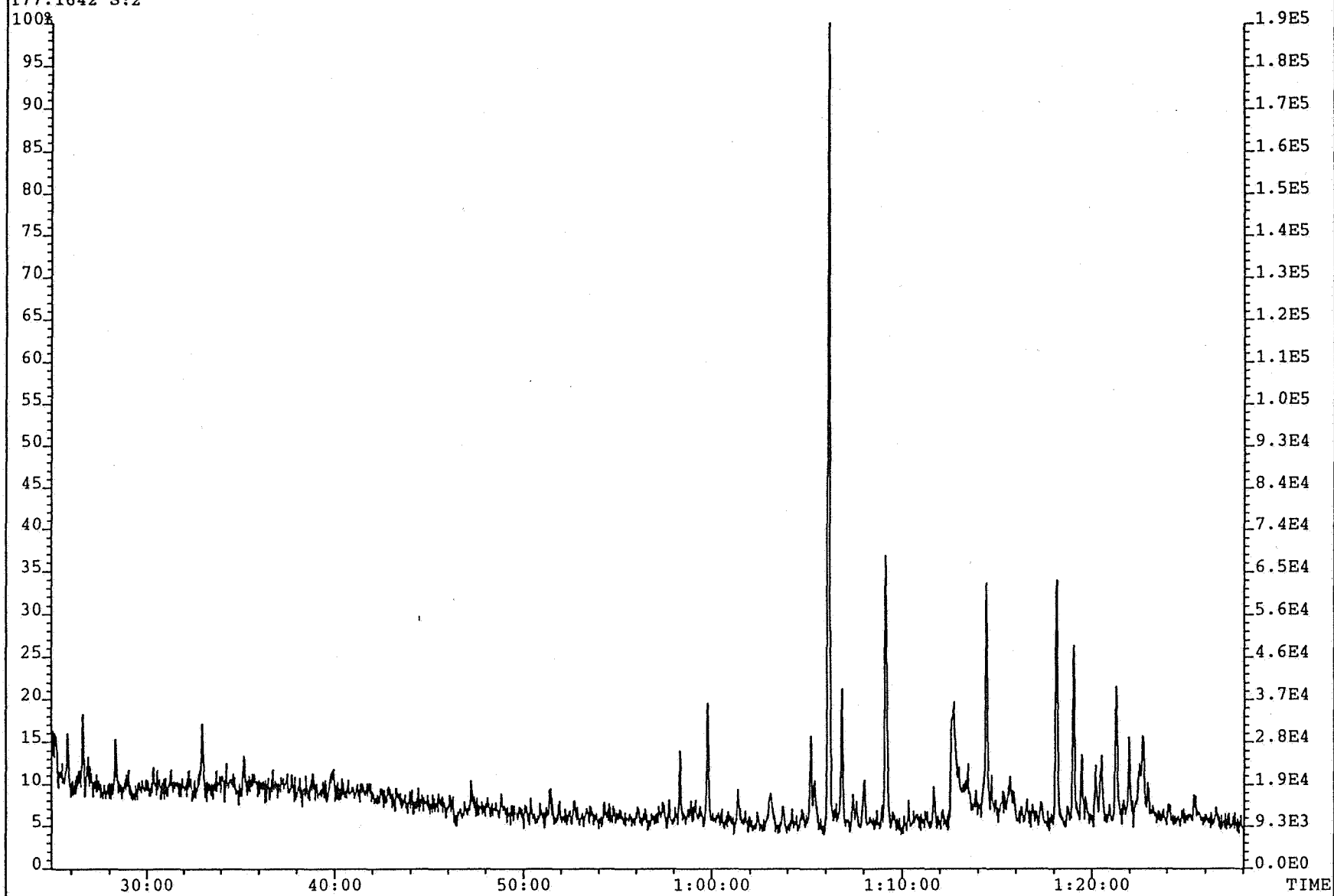
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
177.1642 S:2

Exp:SAT1



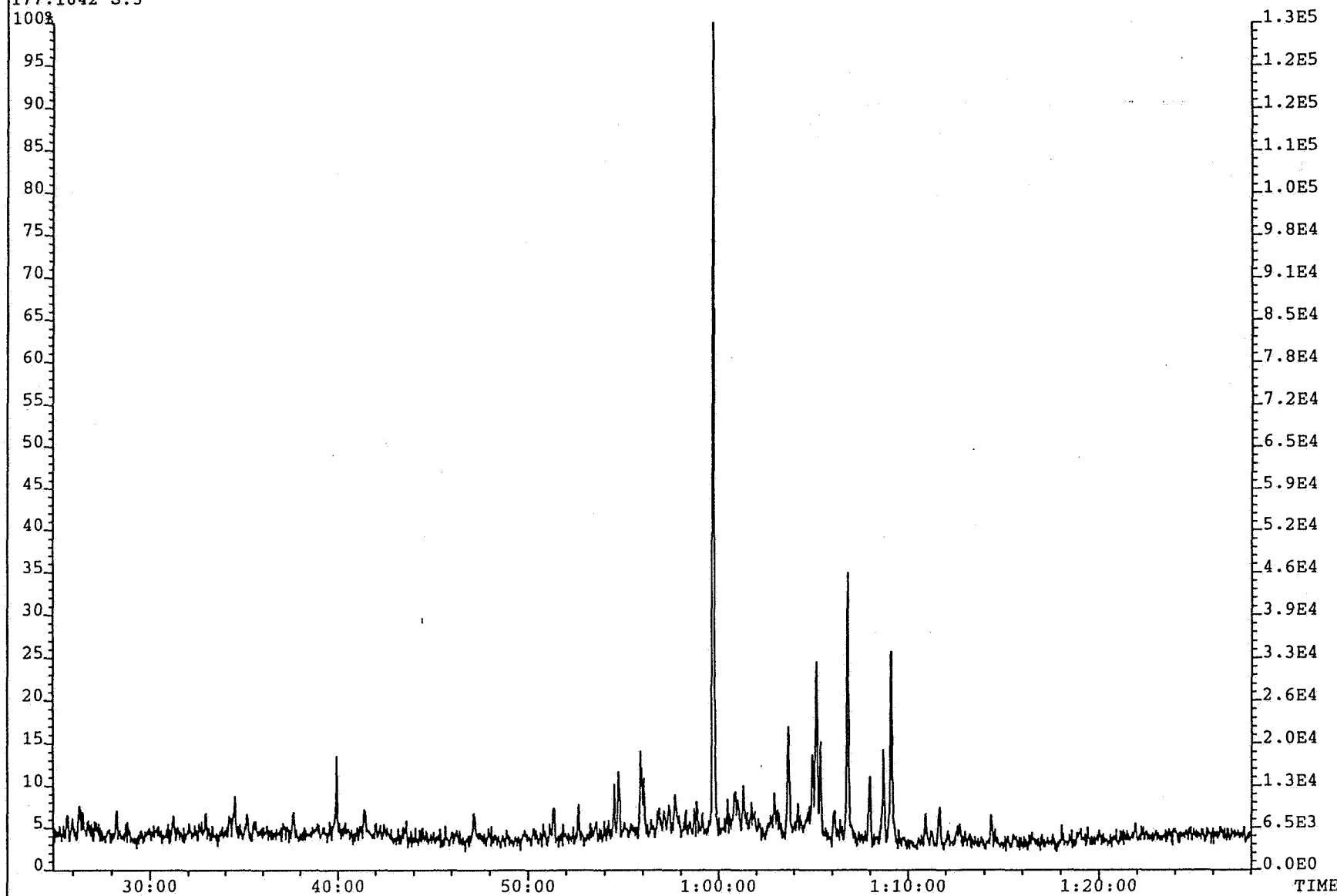
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
177.1642 S:3

Exp: SAT1



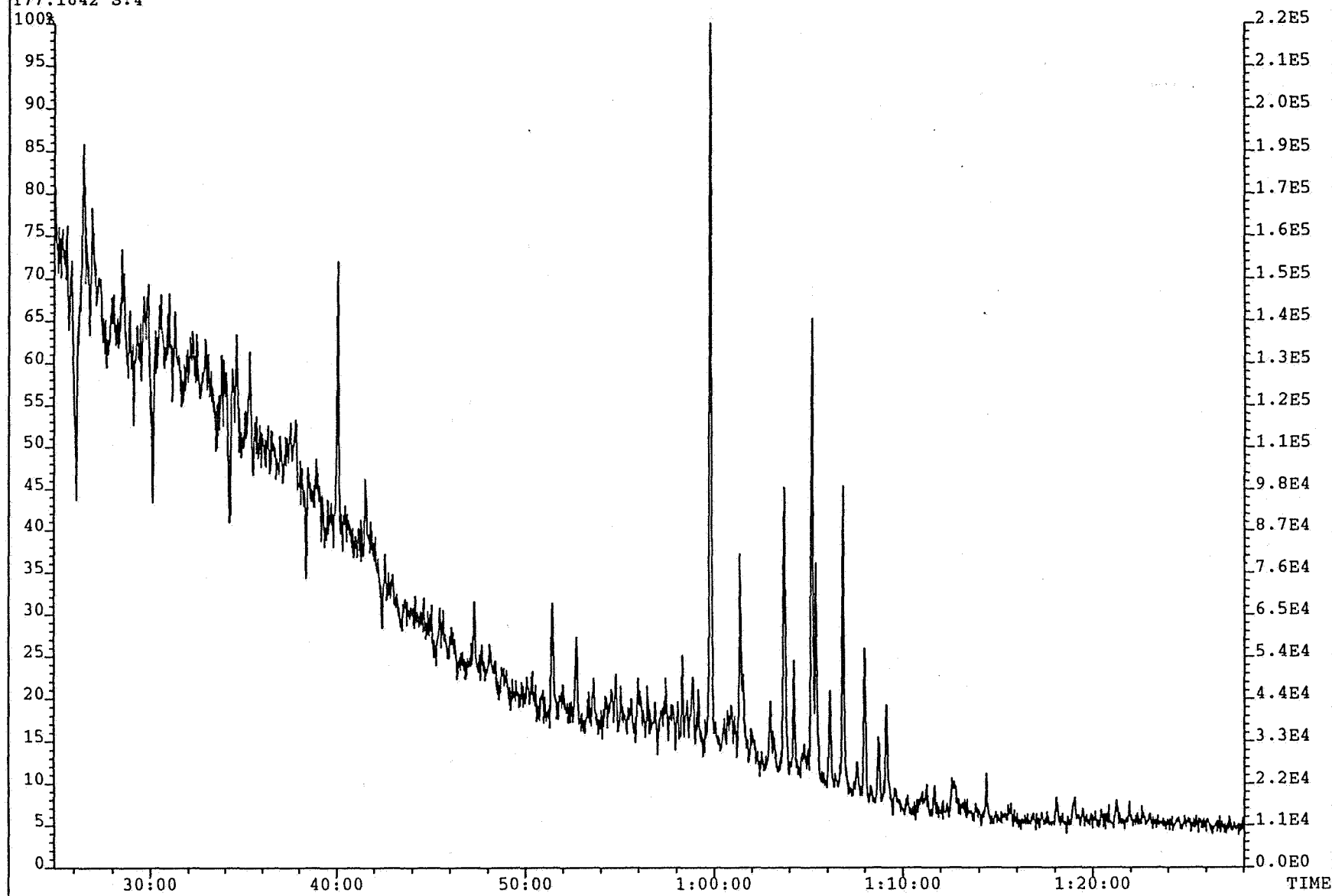
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
177.1642 S:4

Exp:SAT1

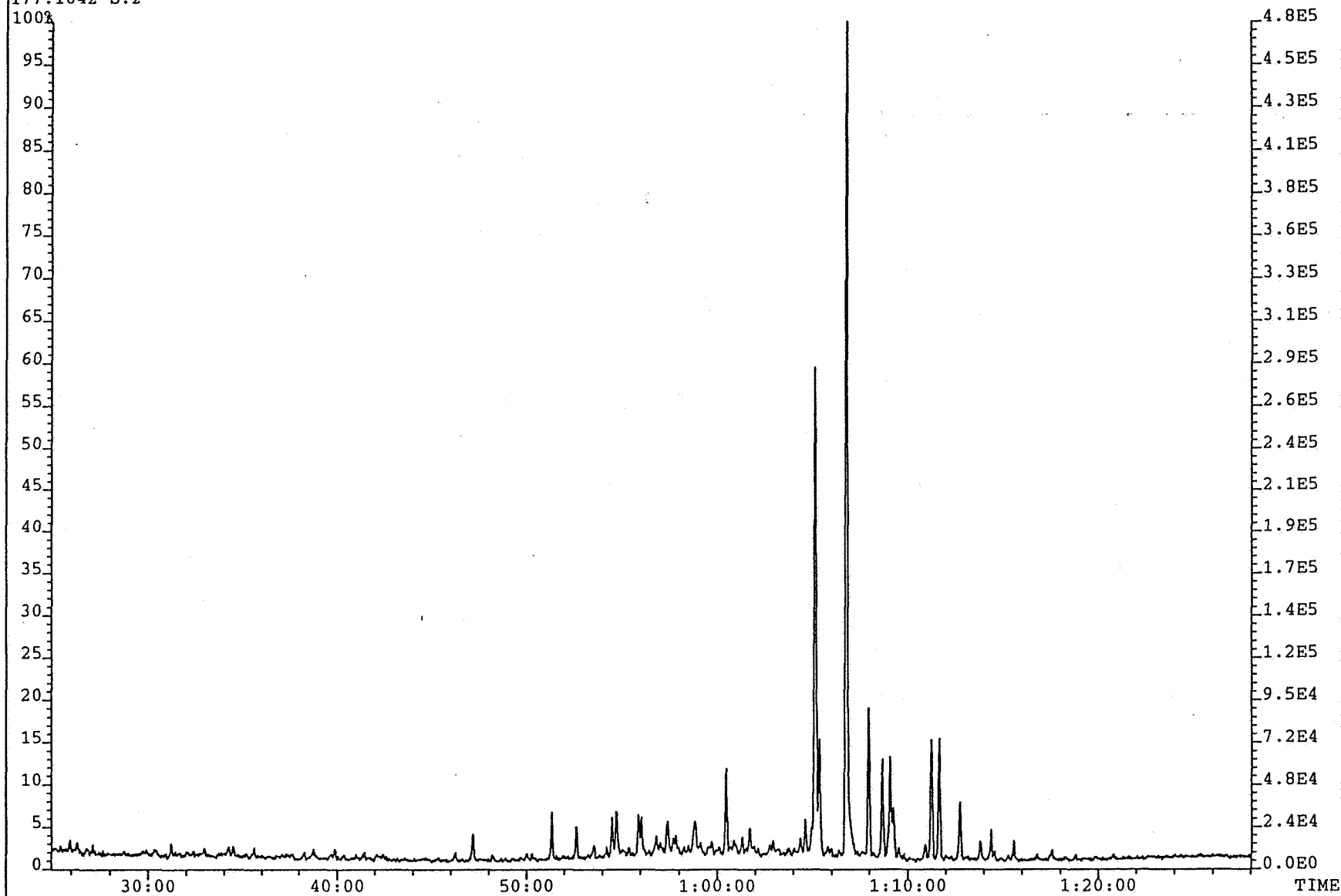


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
177.1642 S:2

Exp:SAT1



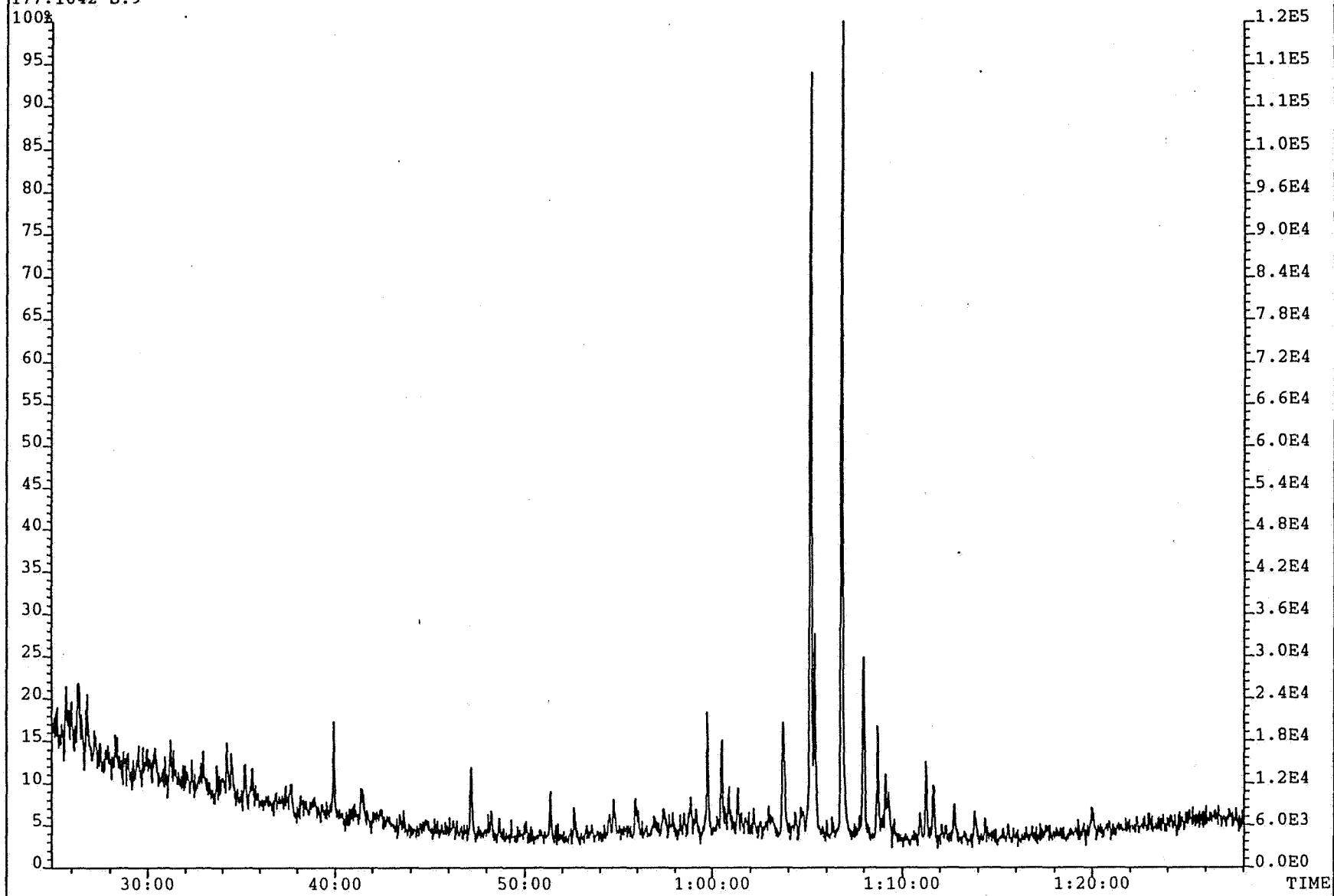
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
177.1642 S:9

Exp:SAT1



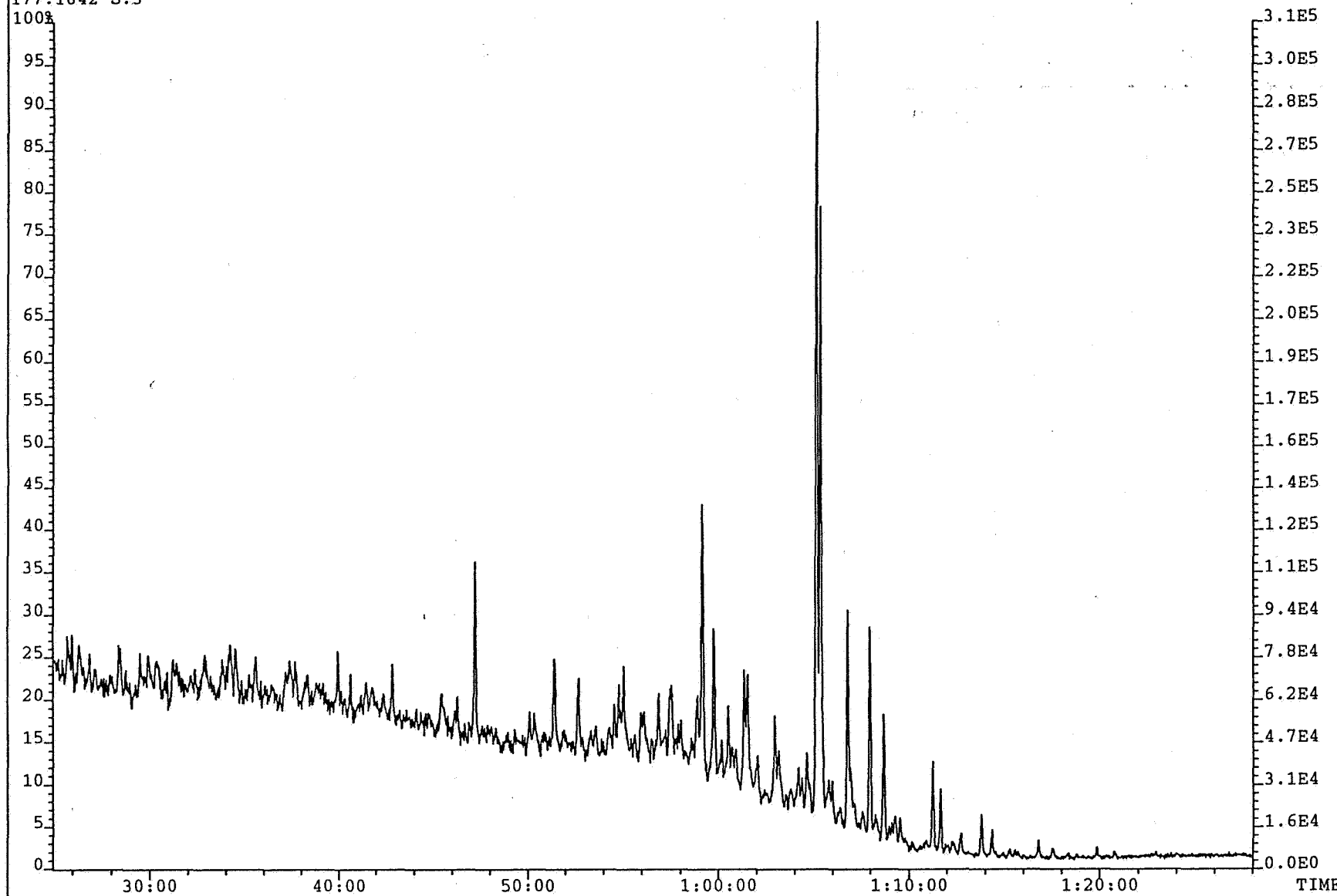
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
177.1642 S:3

Exp:SAT1

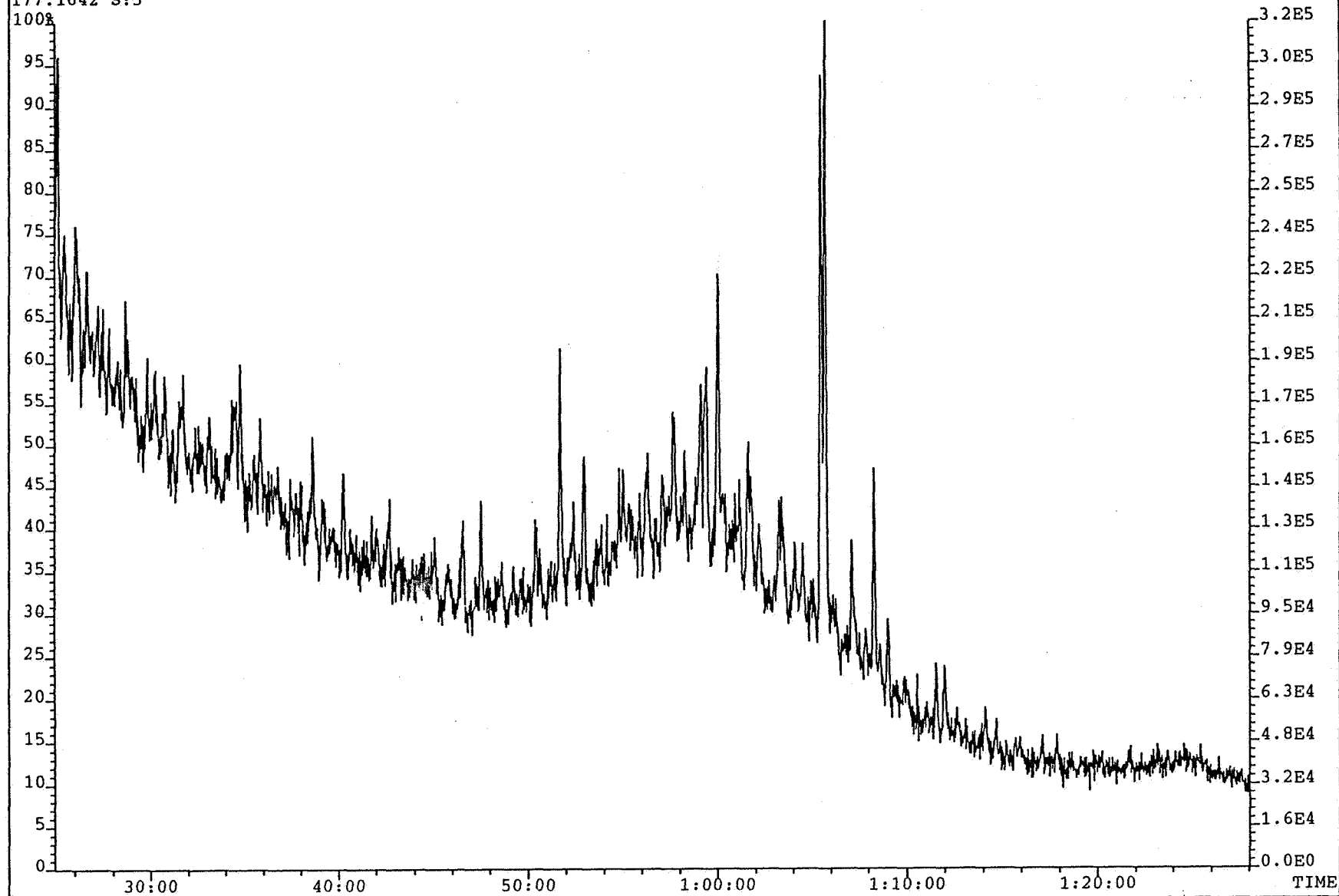


Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
177.1642 S:5 Exp:SAT1

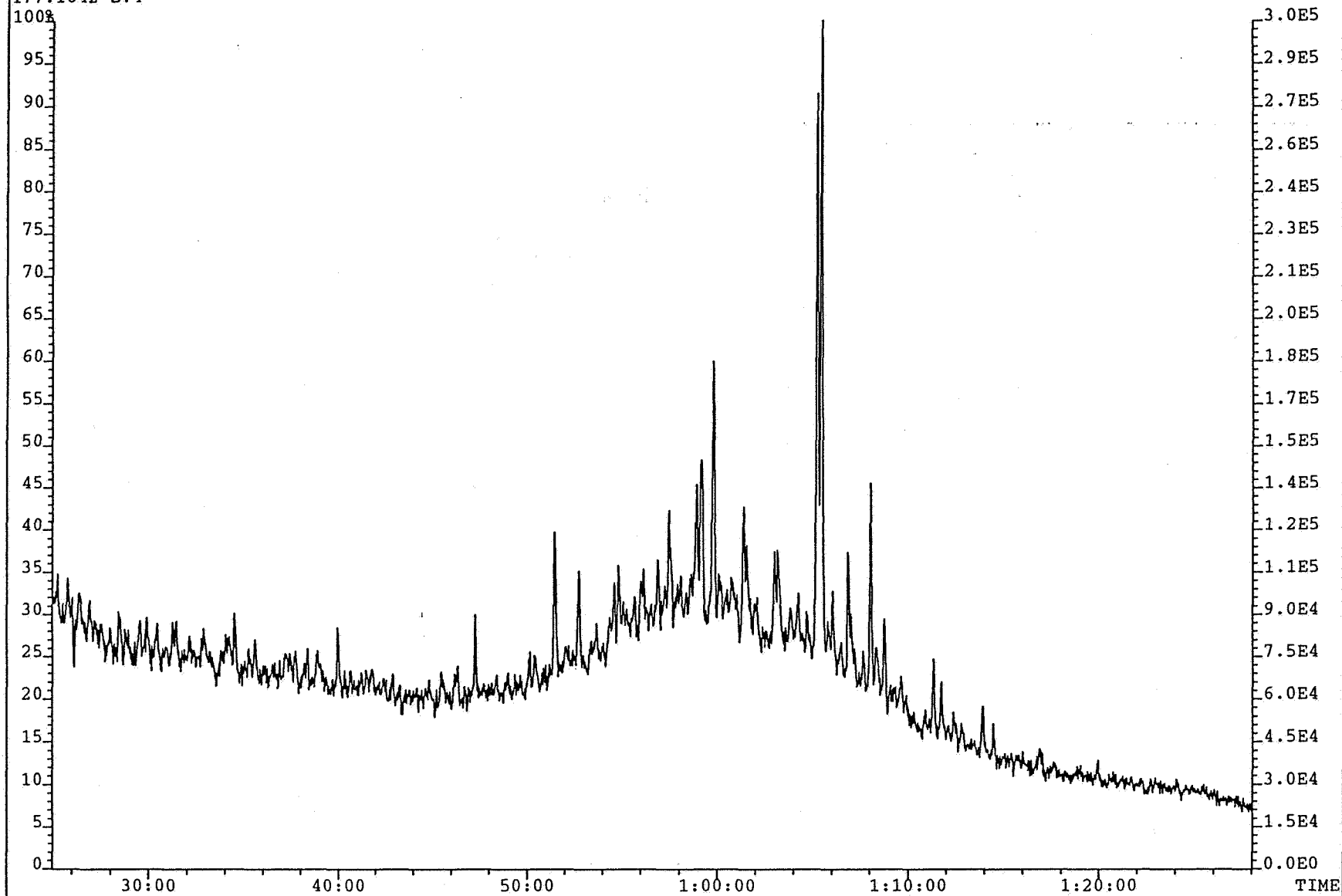


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
177.1642 S:4

Exp:SAT1



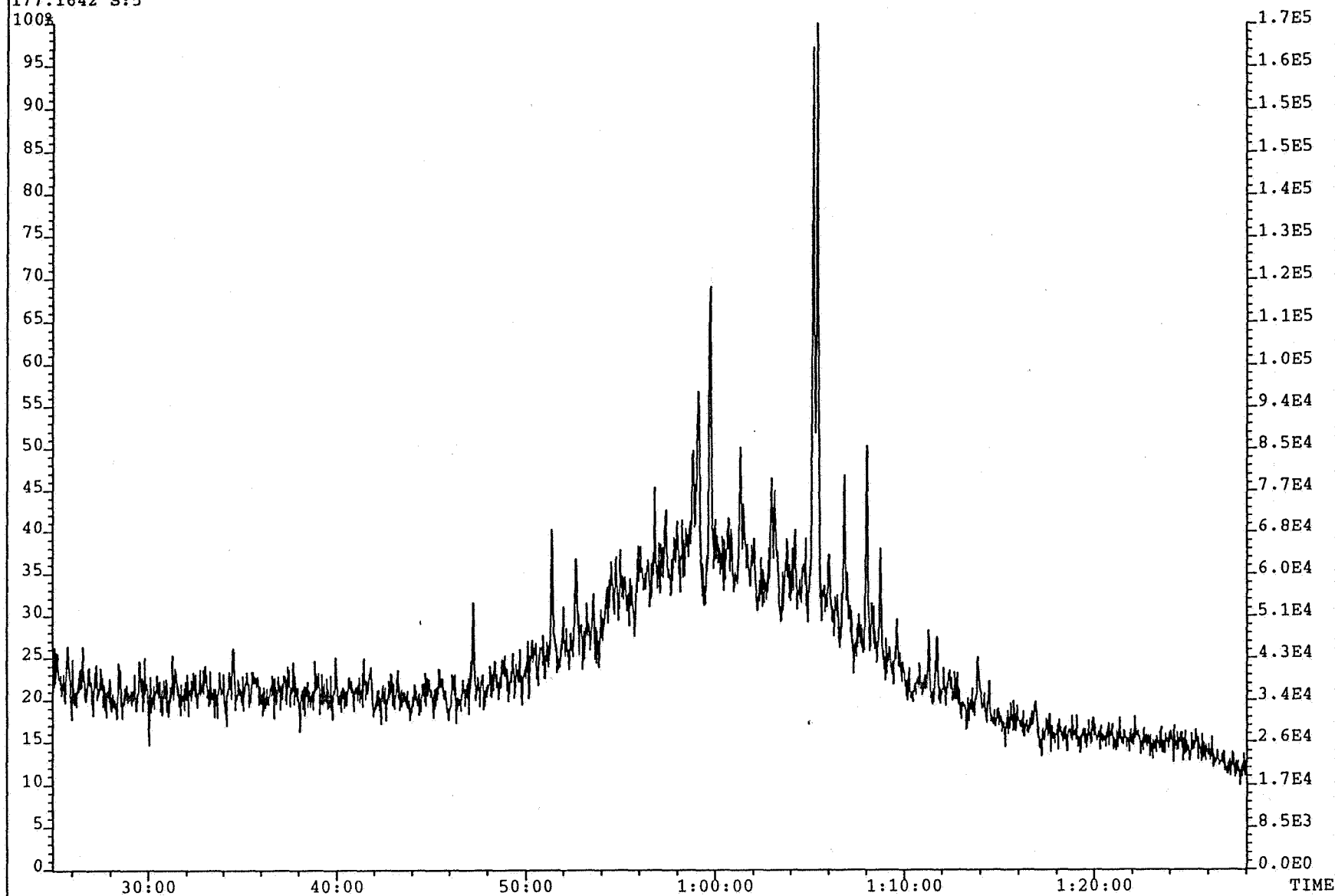
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
177.1642 S:5

Exp:SAT1



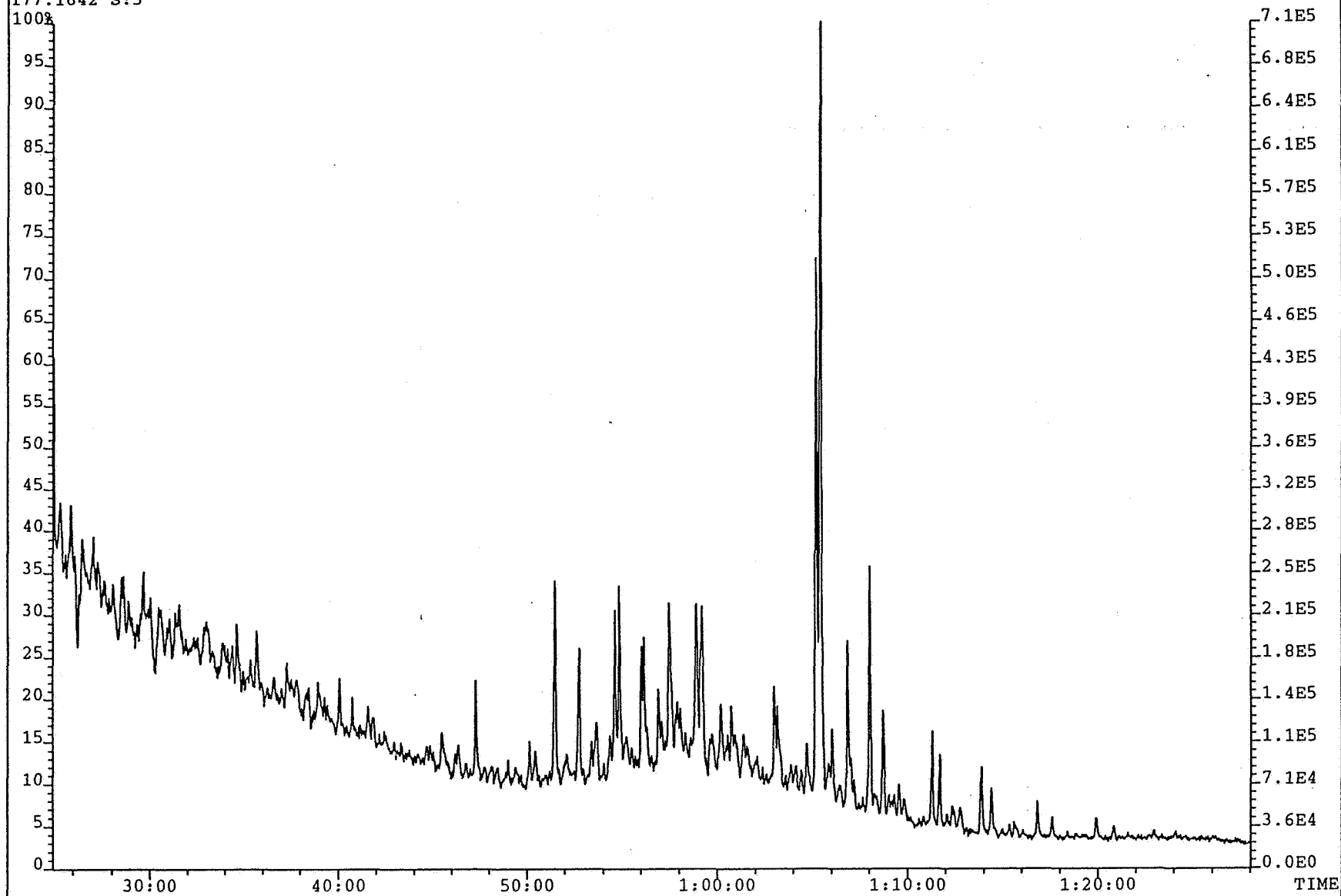
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
177.1642 S:5

Exp:SAT1



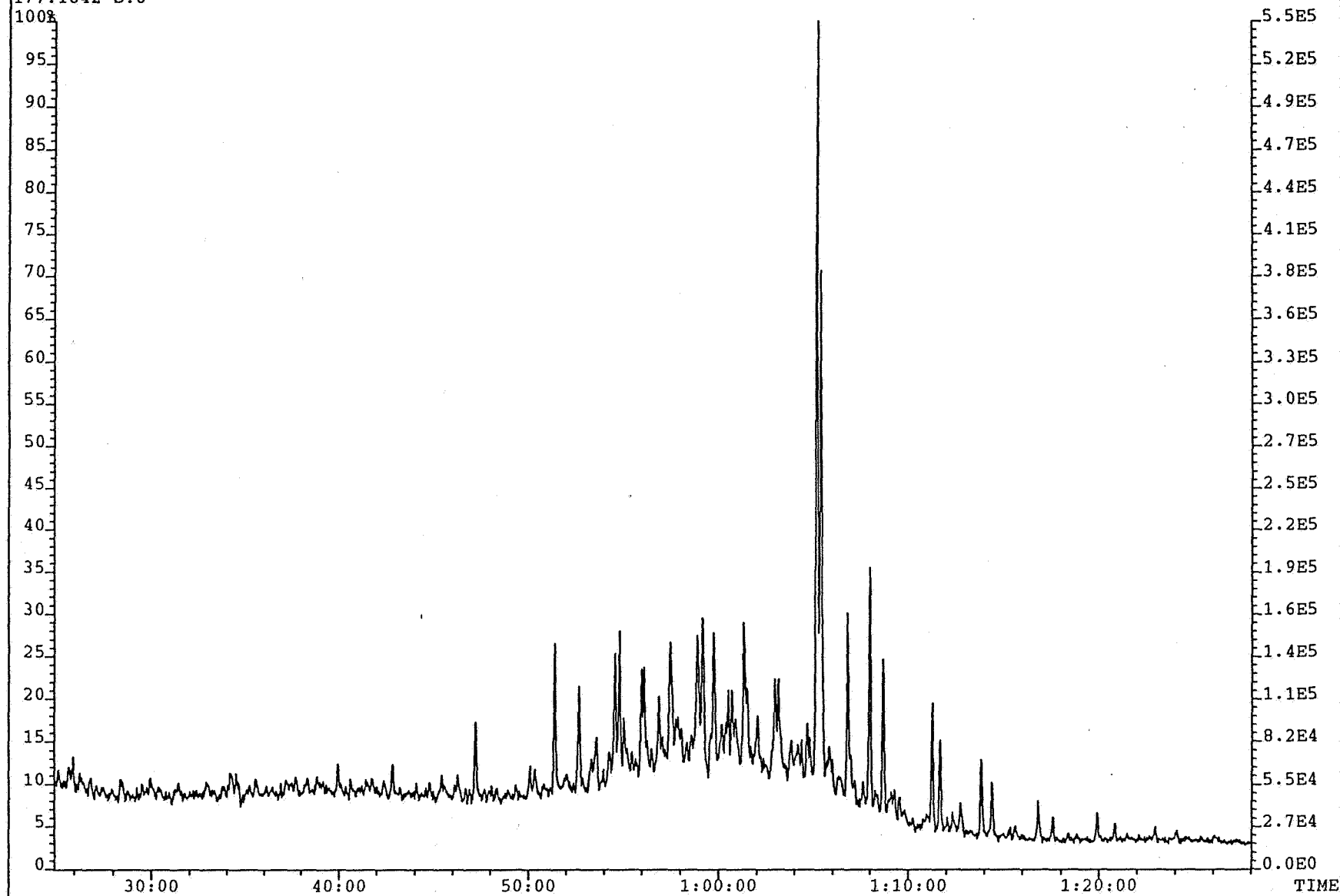
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
177.1642 S:6

Exp:SAT1



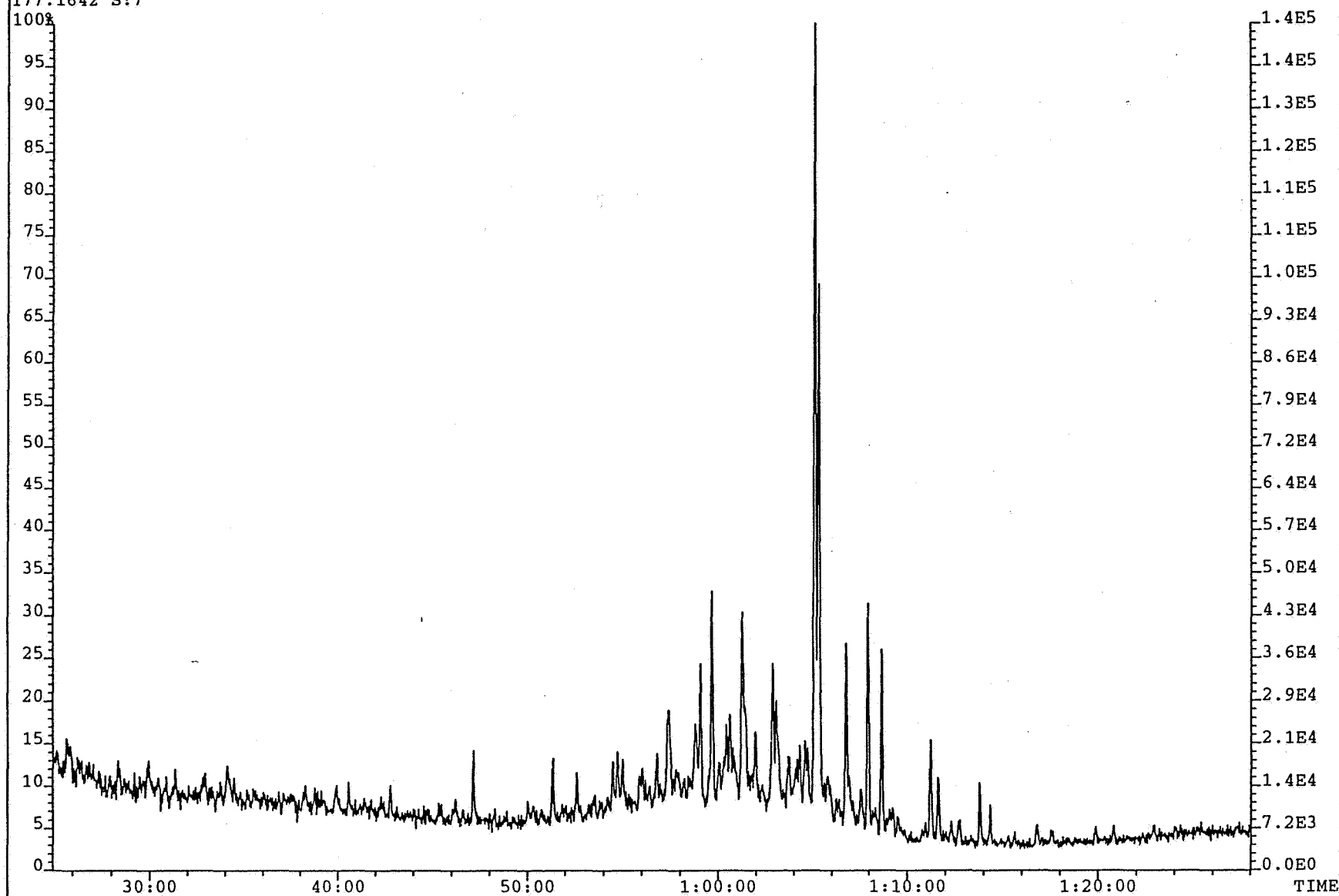
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
177.1642 S:7

Exp:SAT1



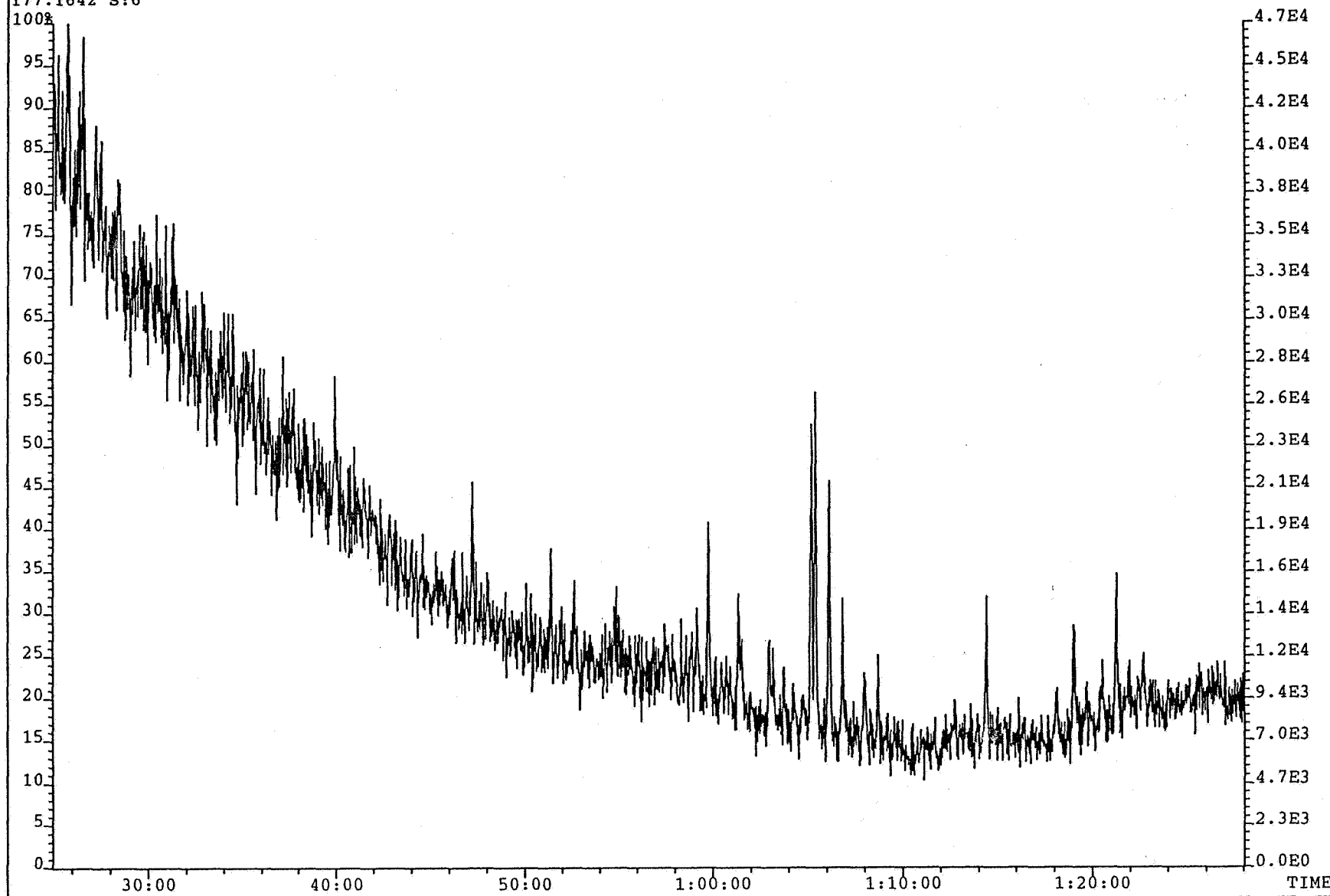
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
177.1642 S:6

Exp:SAT1



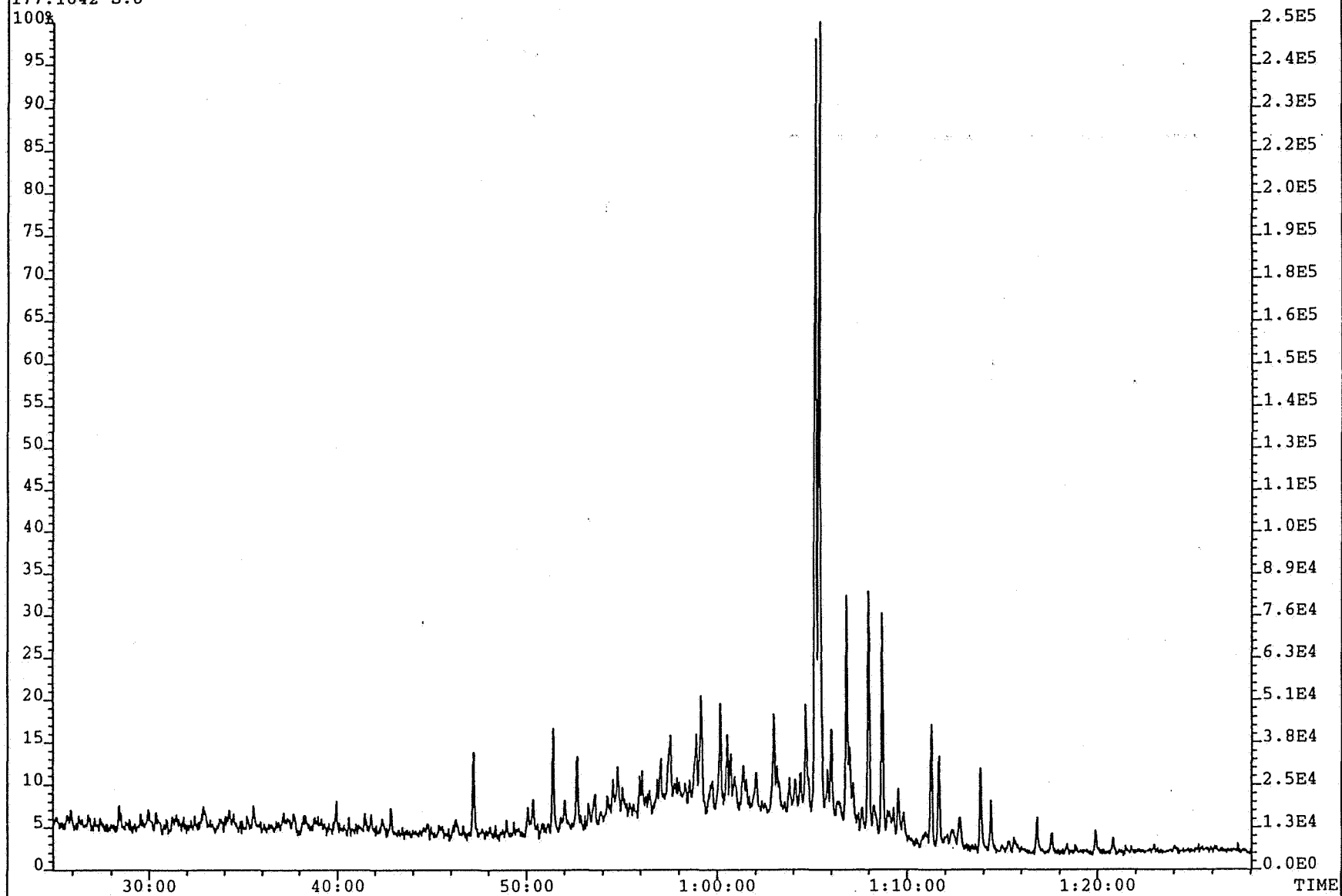
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
177.1642 S:8

Exp: SAT1



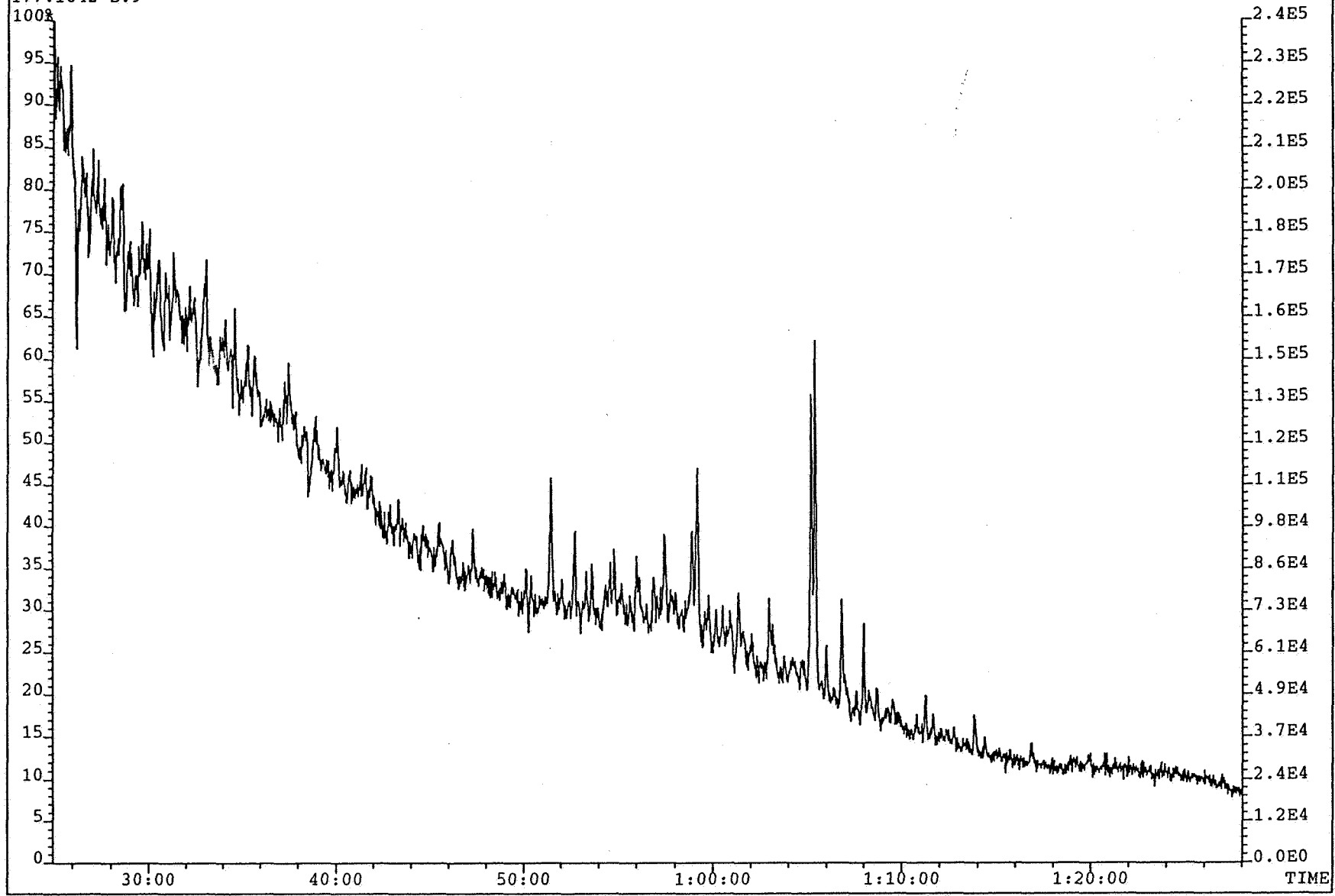
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

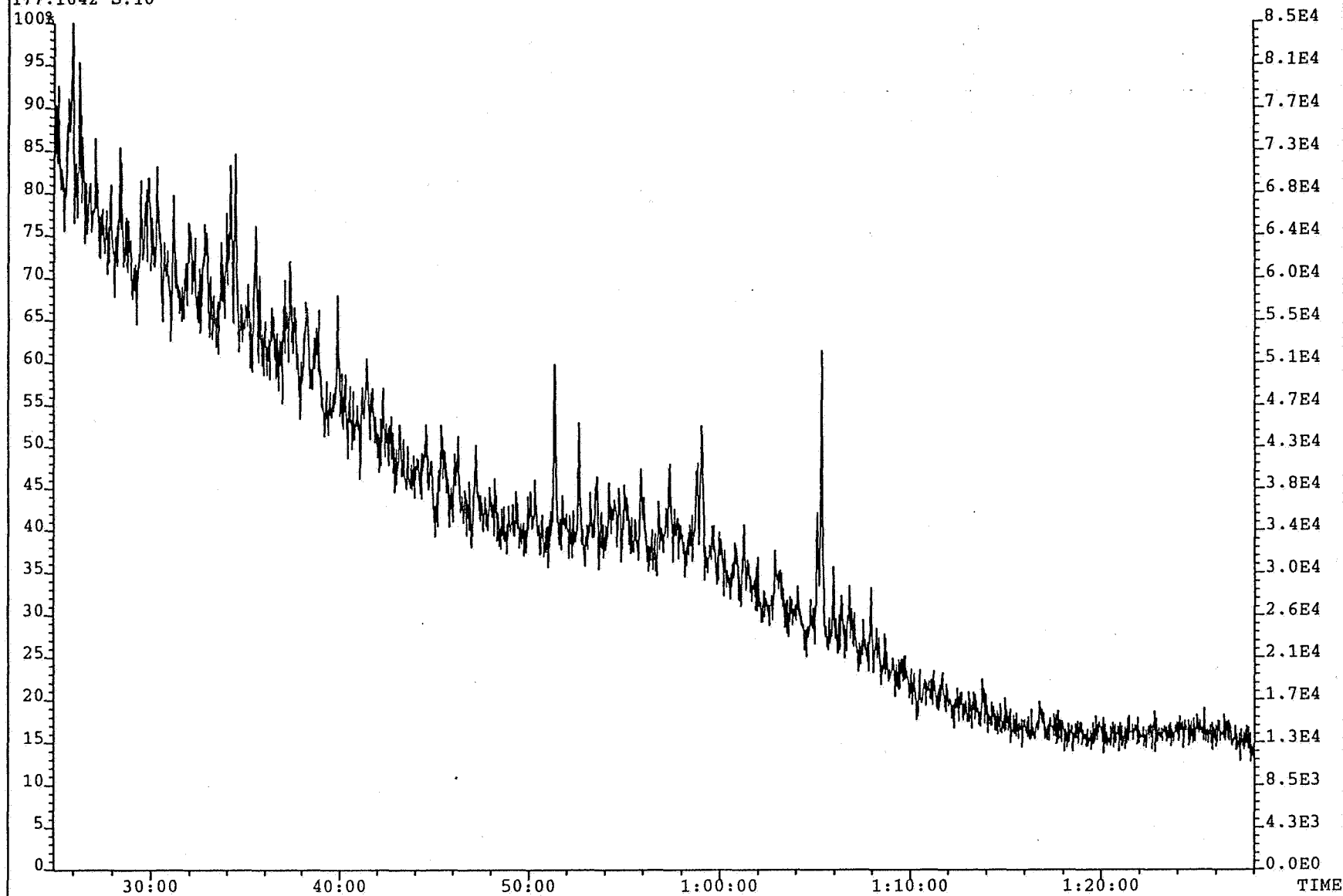
File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
177.1642 S:9

Exp:SAT1



File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
177.1642 S:10

Exp:SAT1



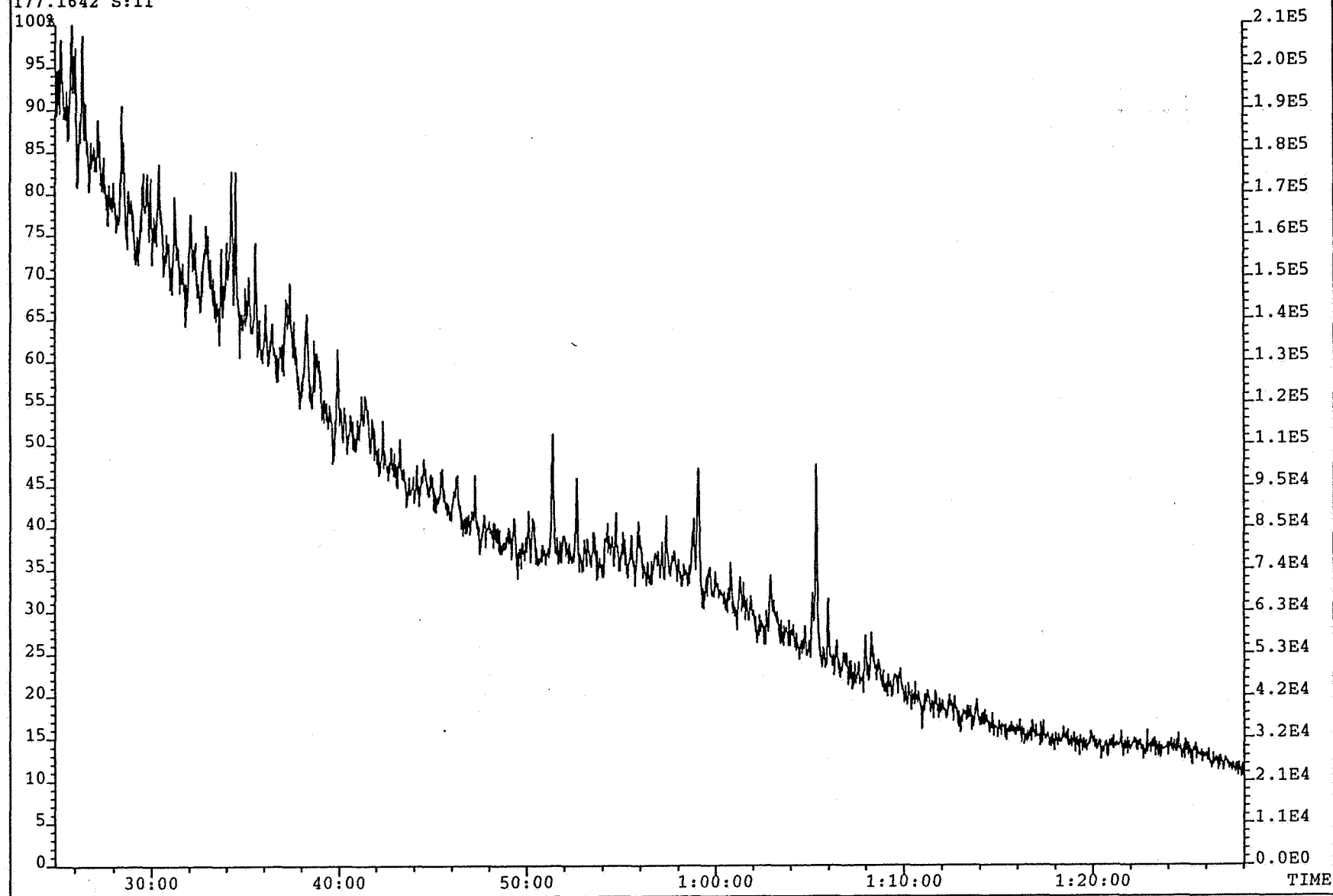
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
177.1642 S:11

Exp:SAT1

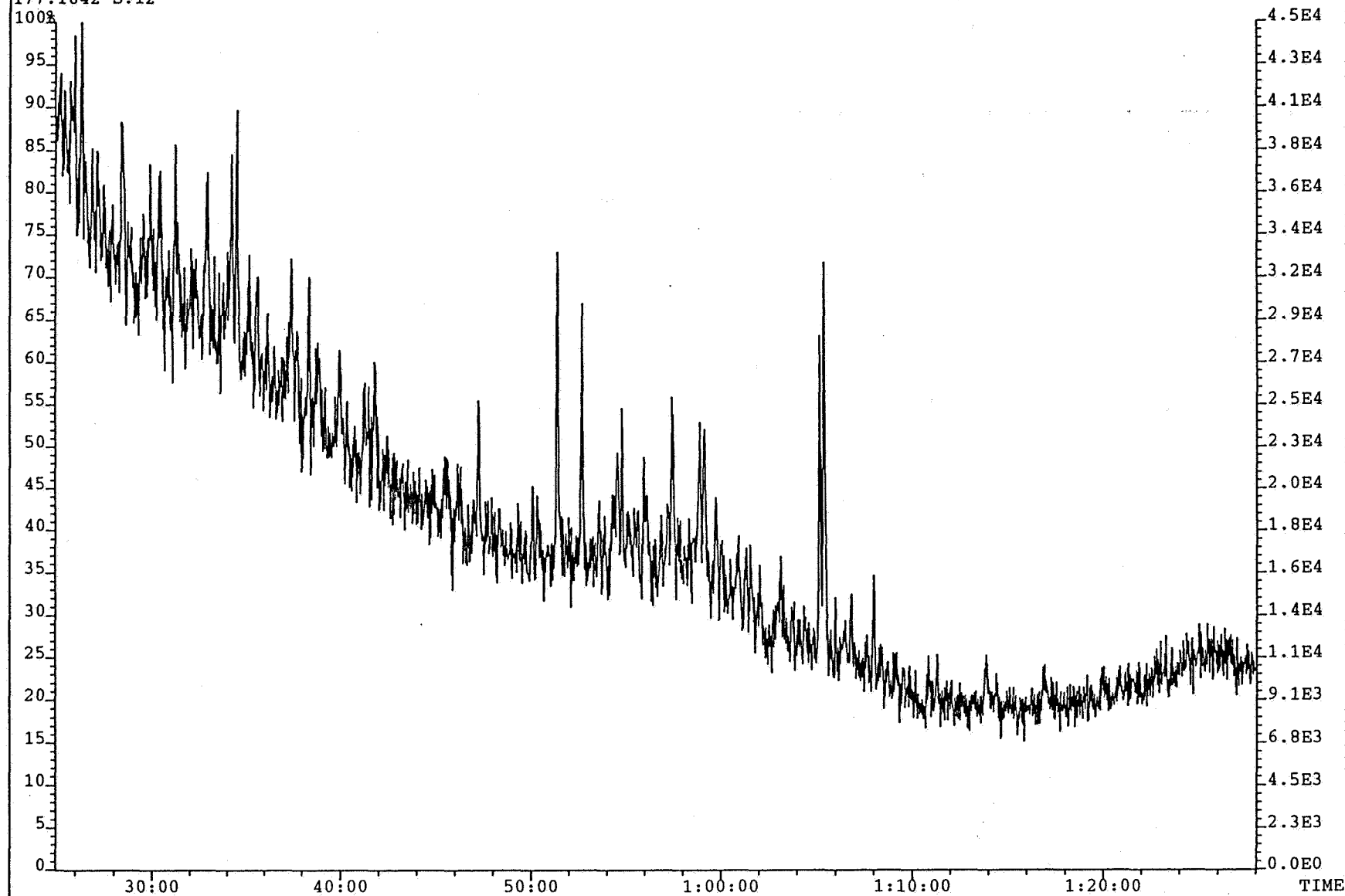


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
177.1642 S:12

Exp:SAT1



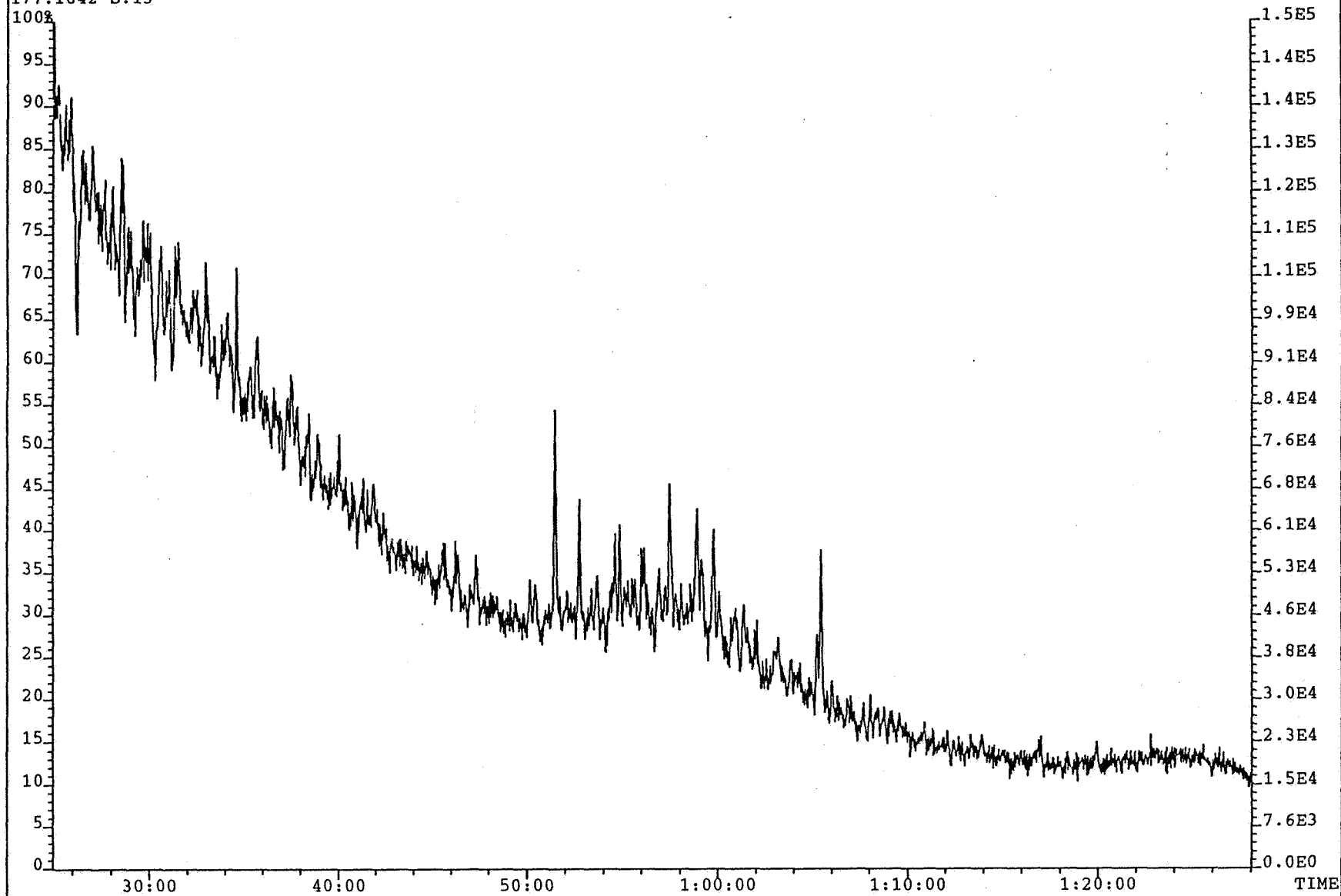
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
177.1642 S:13

Exp:SAT1



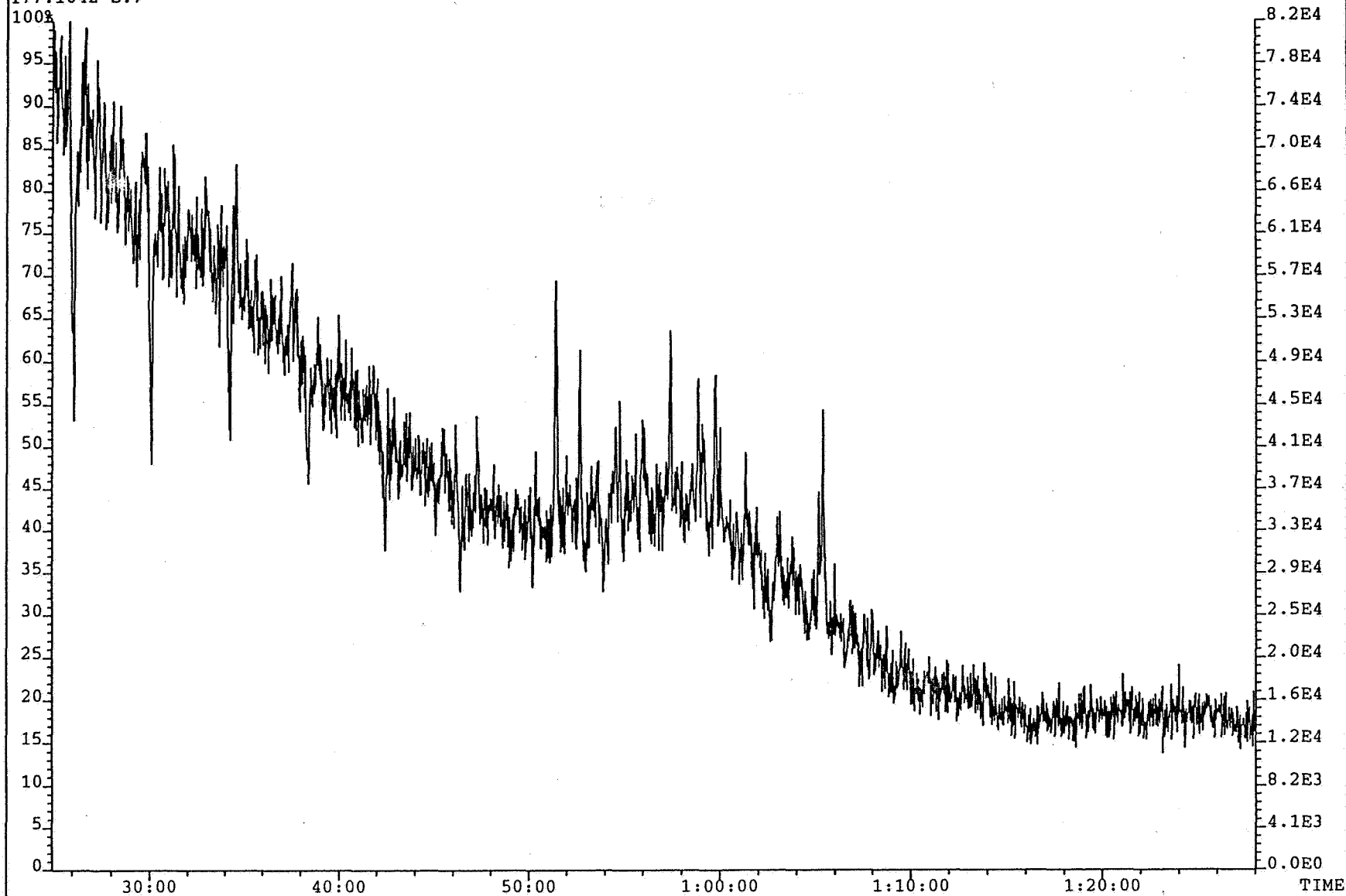
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
177.1642 S:7

Exp.SAT1



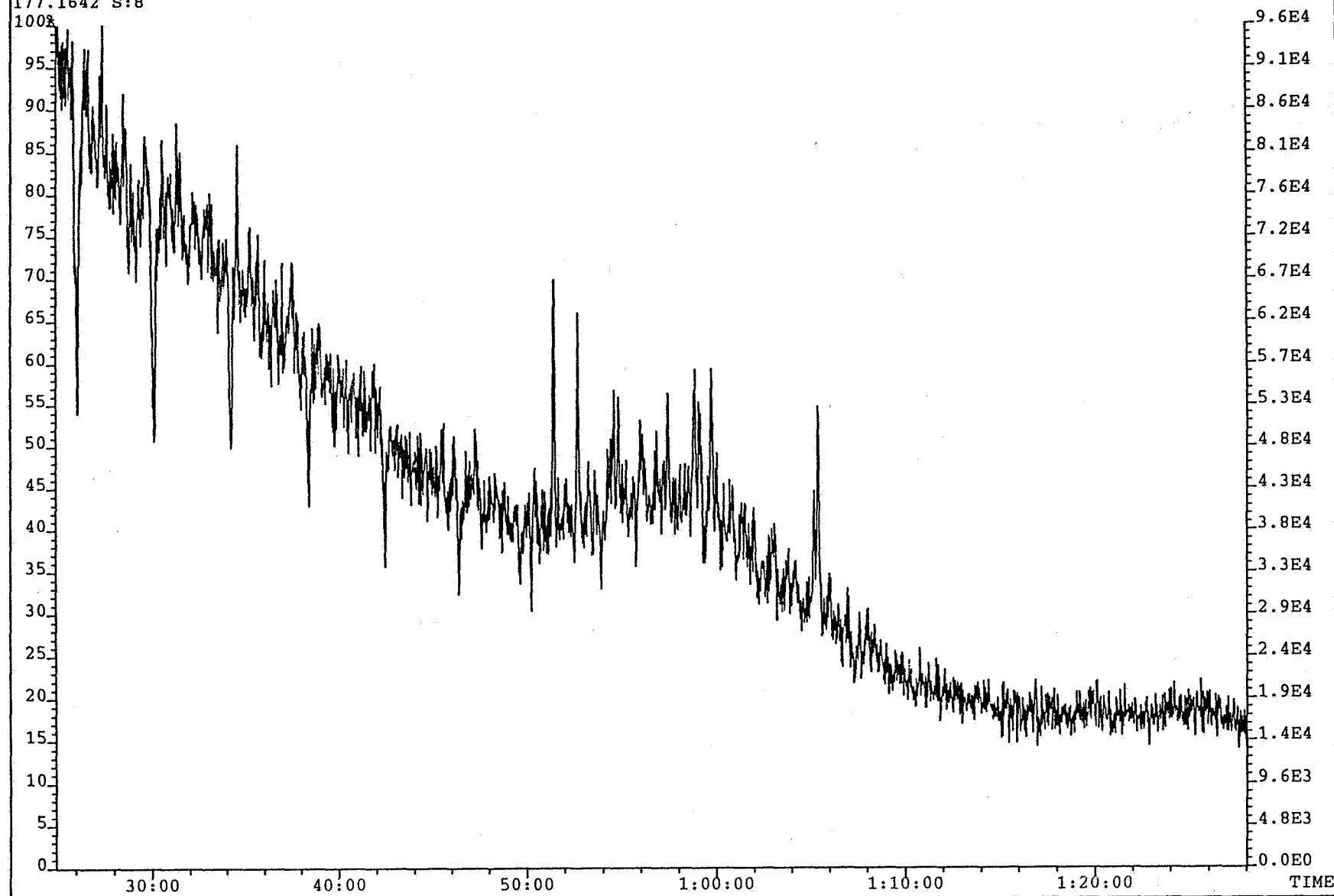
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
177.1642 S:8

Exp:SAT1

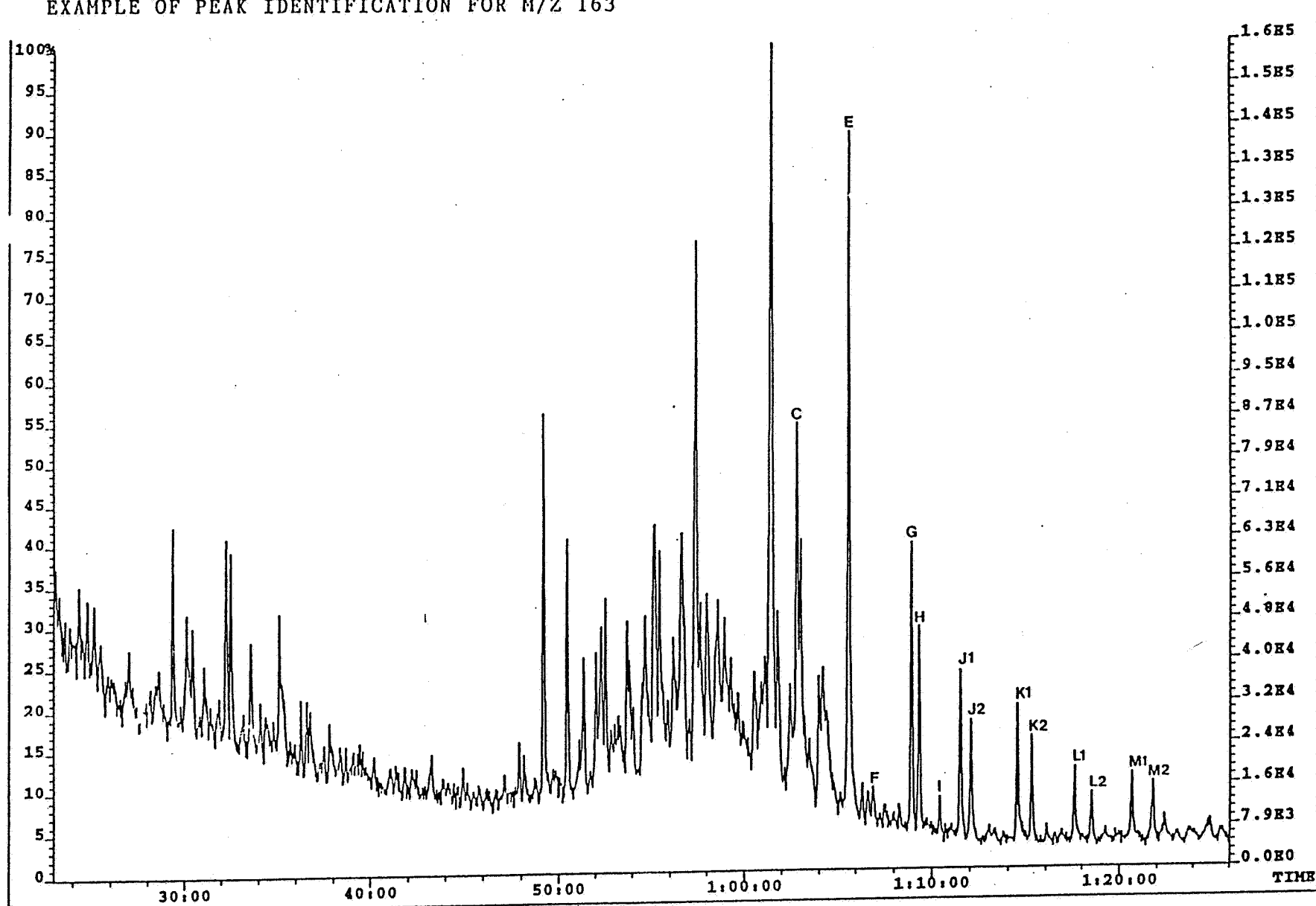


Schlumberger

GECO-PRAKLA

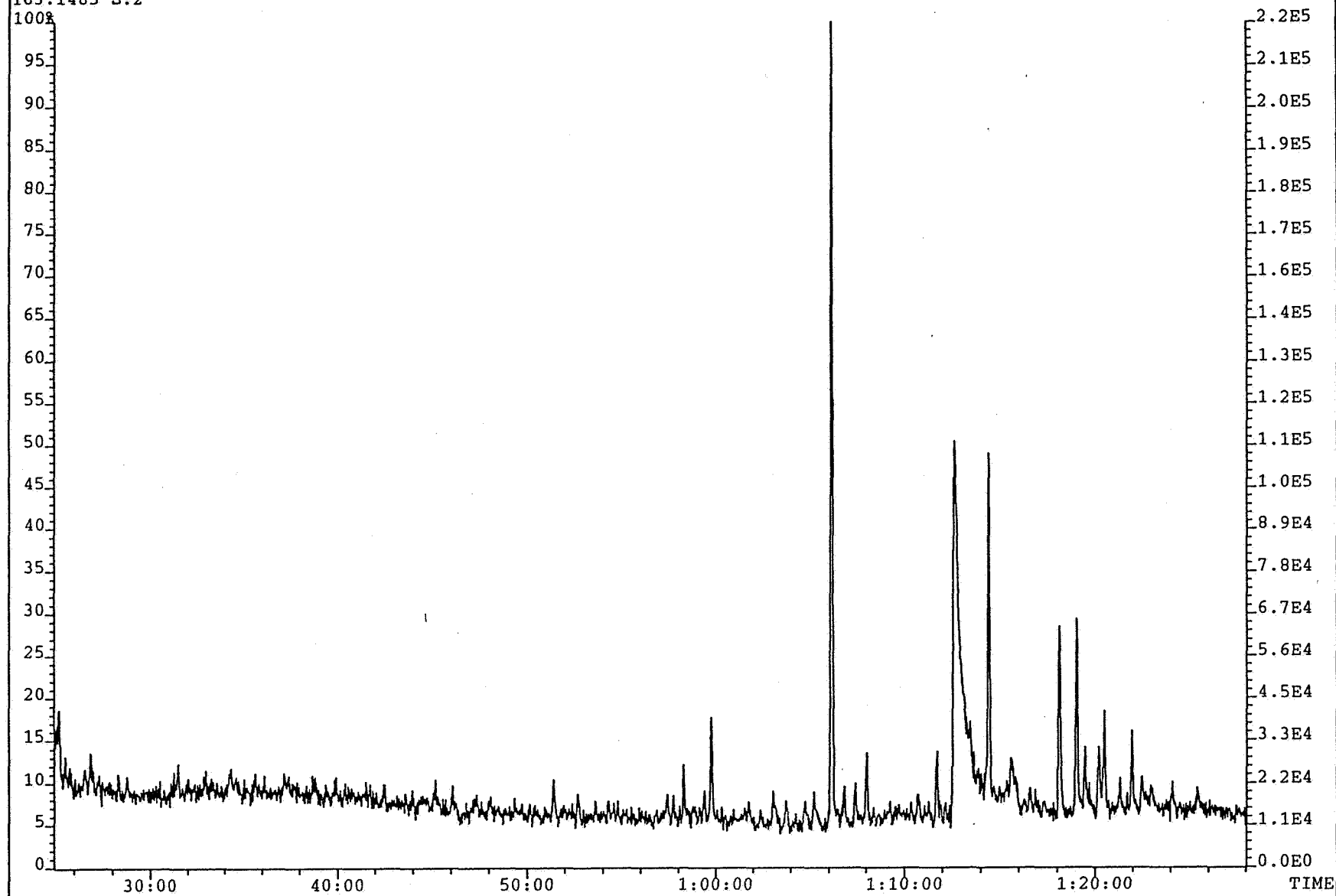
GEOLAB  NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 163



File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
163.1485 S:2

Exp:SAT1



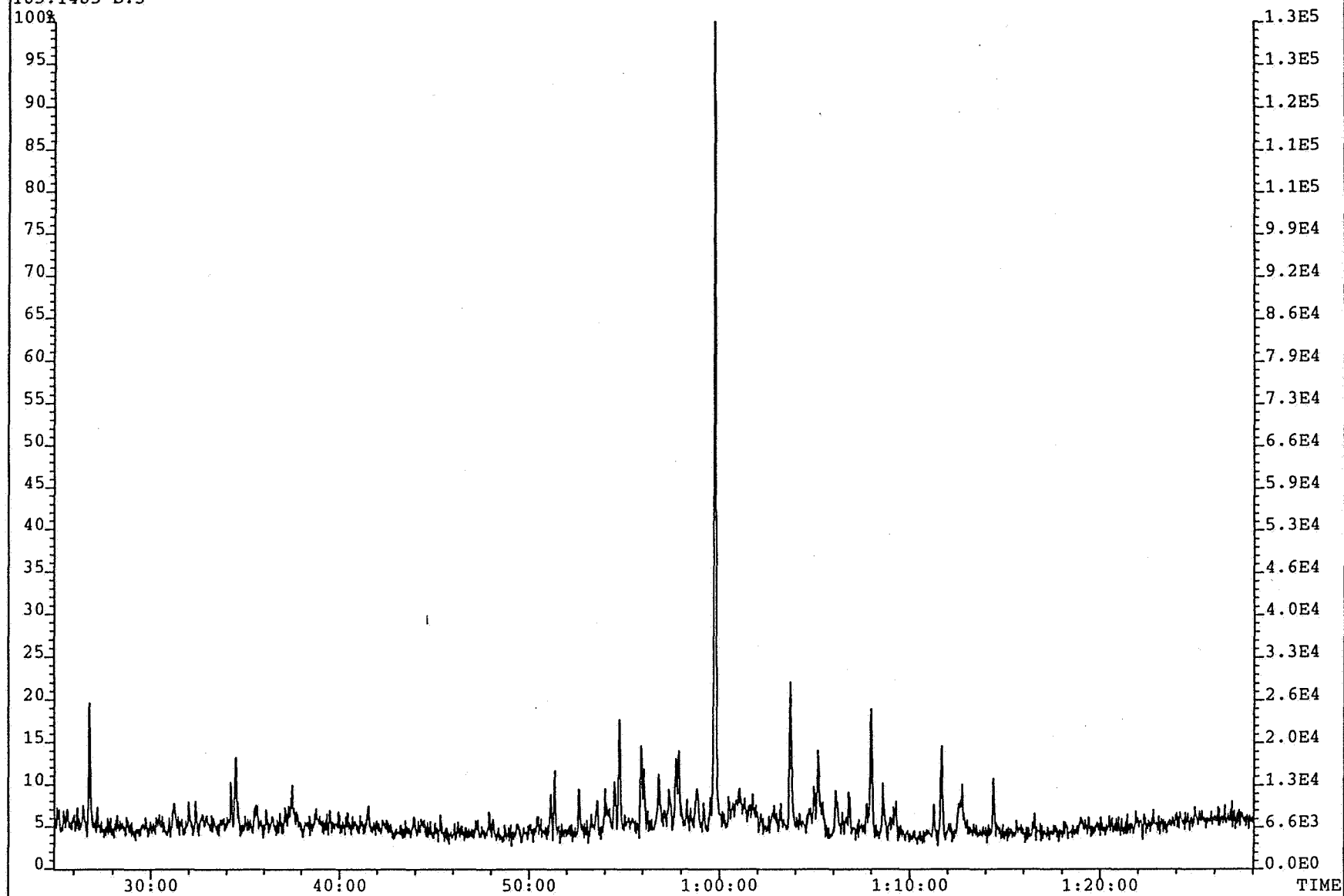
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
163.1485 S:3

Exp:SAT1



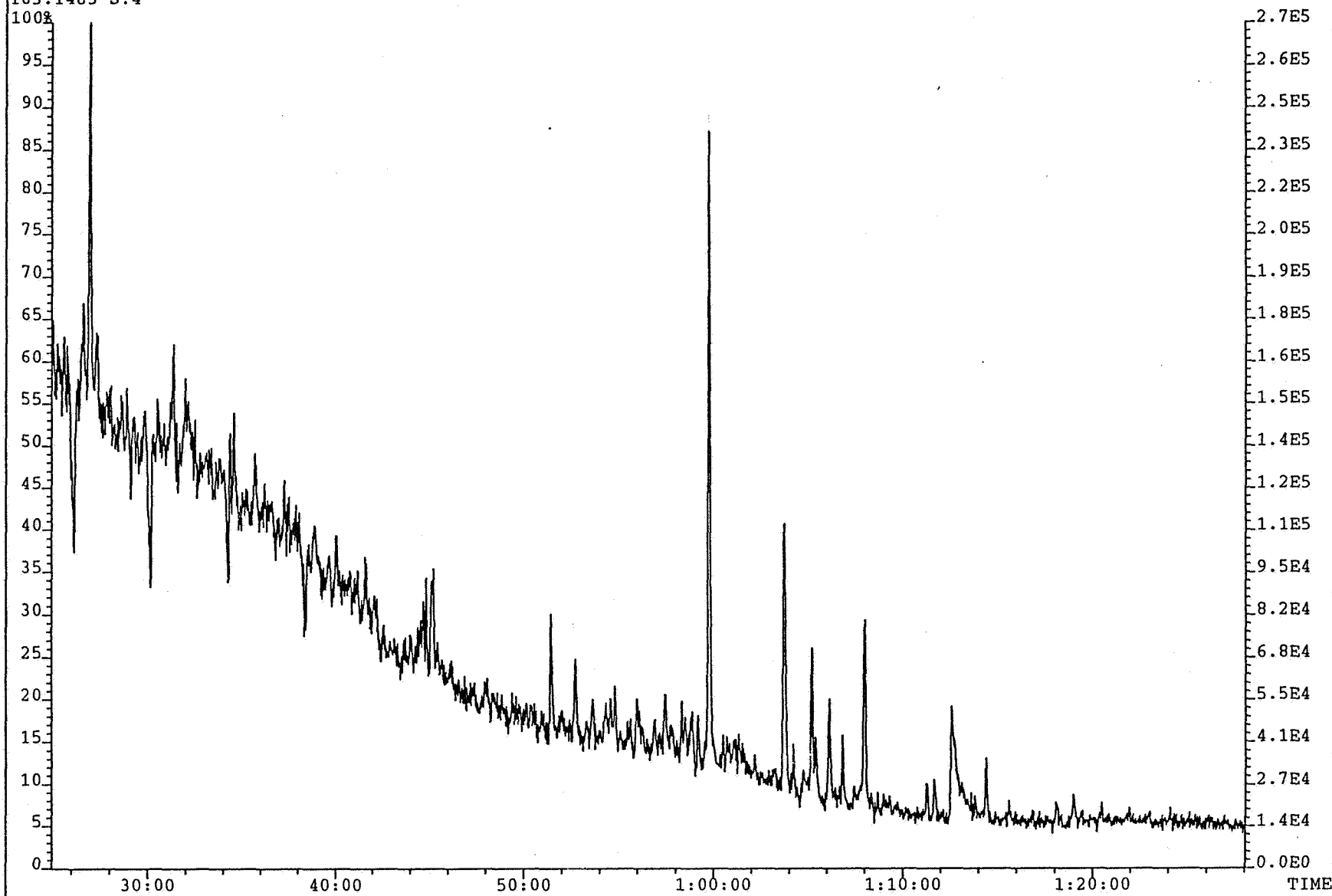
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
163.1485 S:4

Exp:SAT1



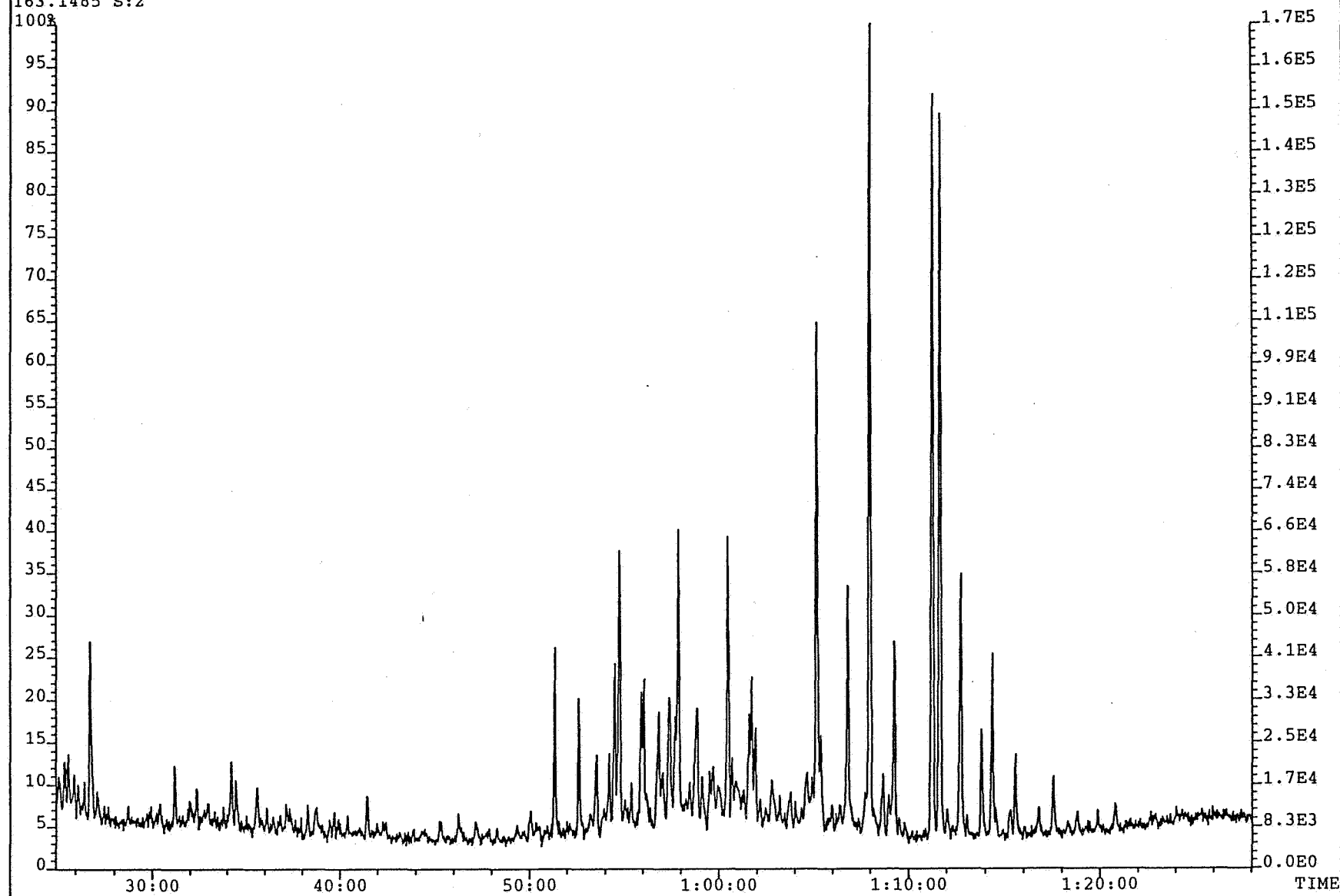
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
163.1485 S:2

Exp:SAT1



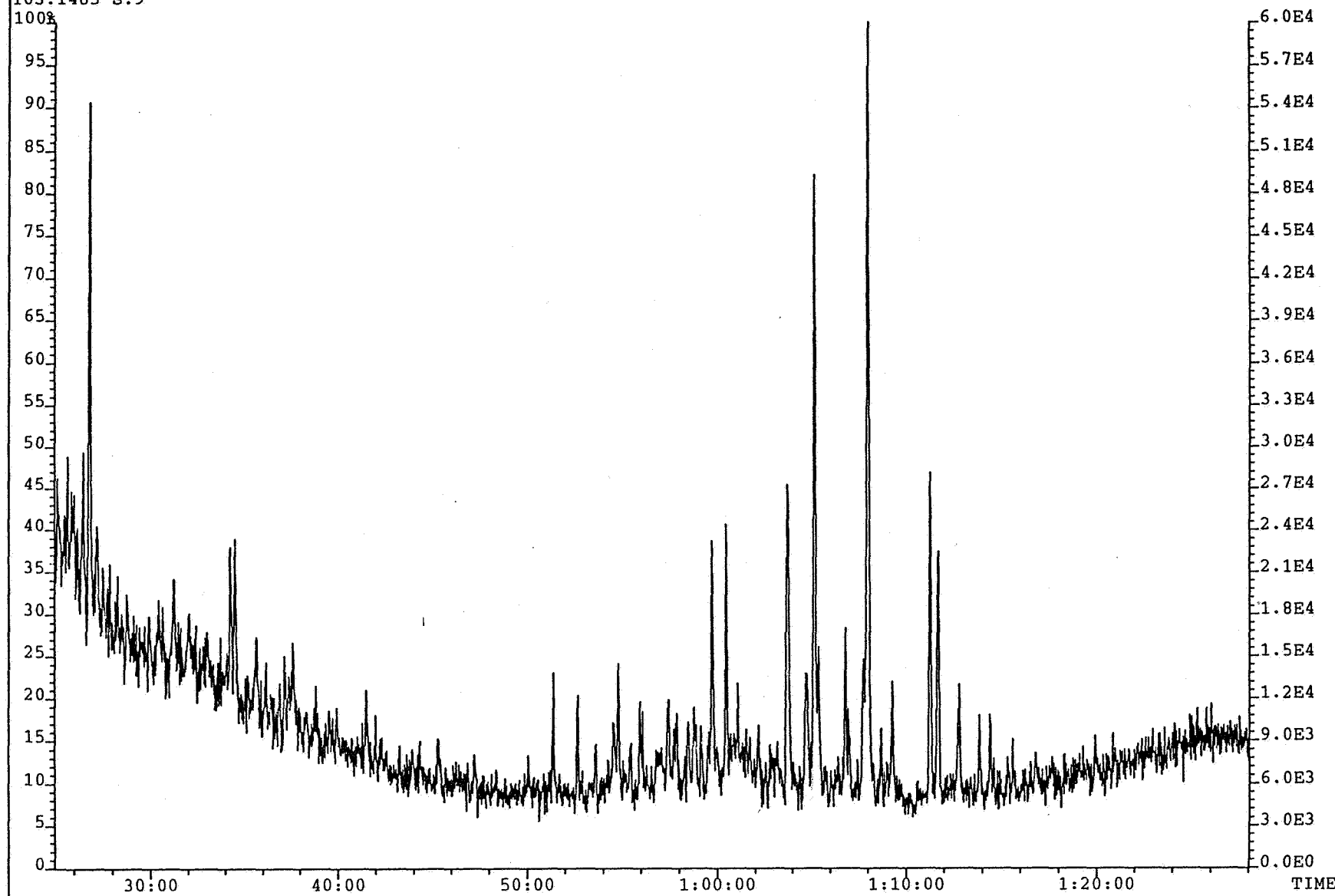
Schlumberger

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GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
163.1485 S:9

Exp:SAT1

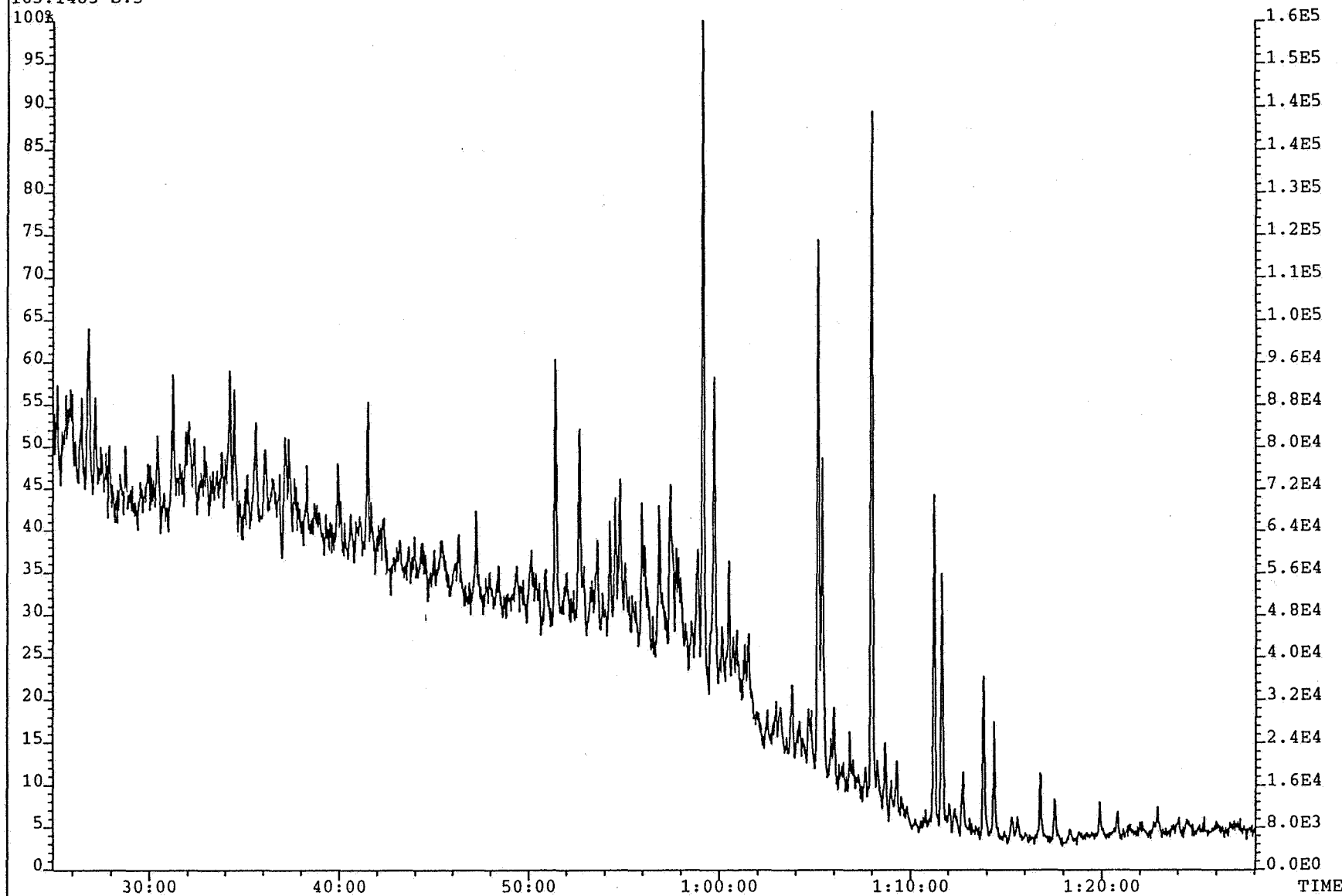


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
163.1485 S:3

Exp:SAT1



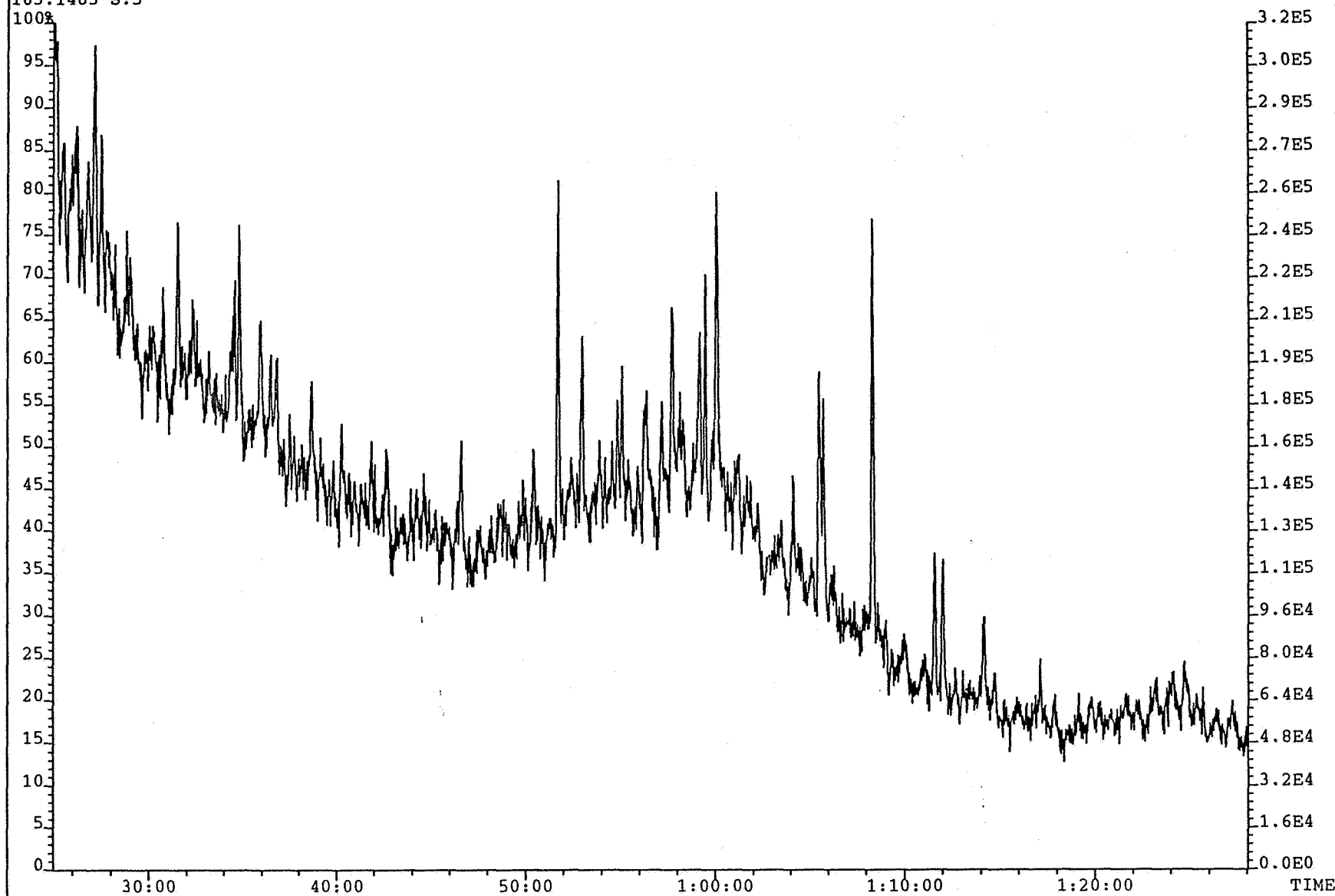
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
163.1485 S:5

Exp:SAT1



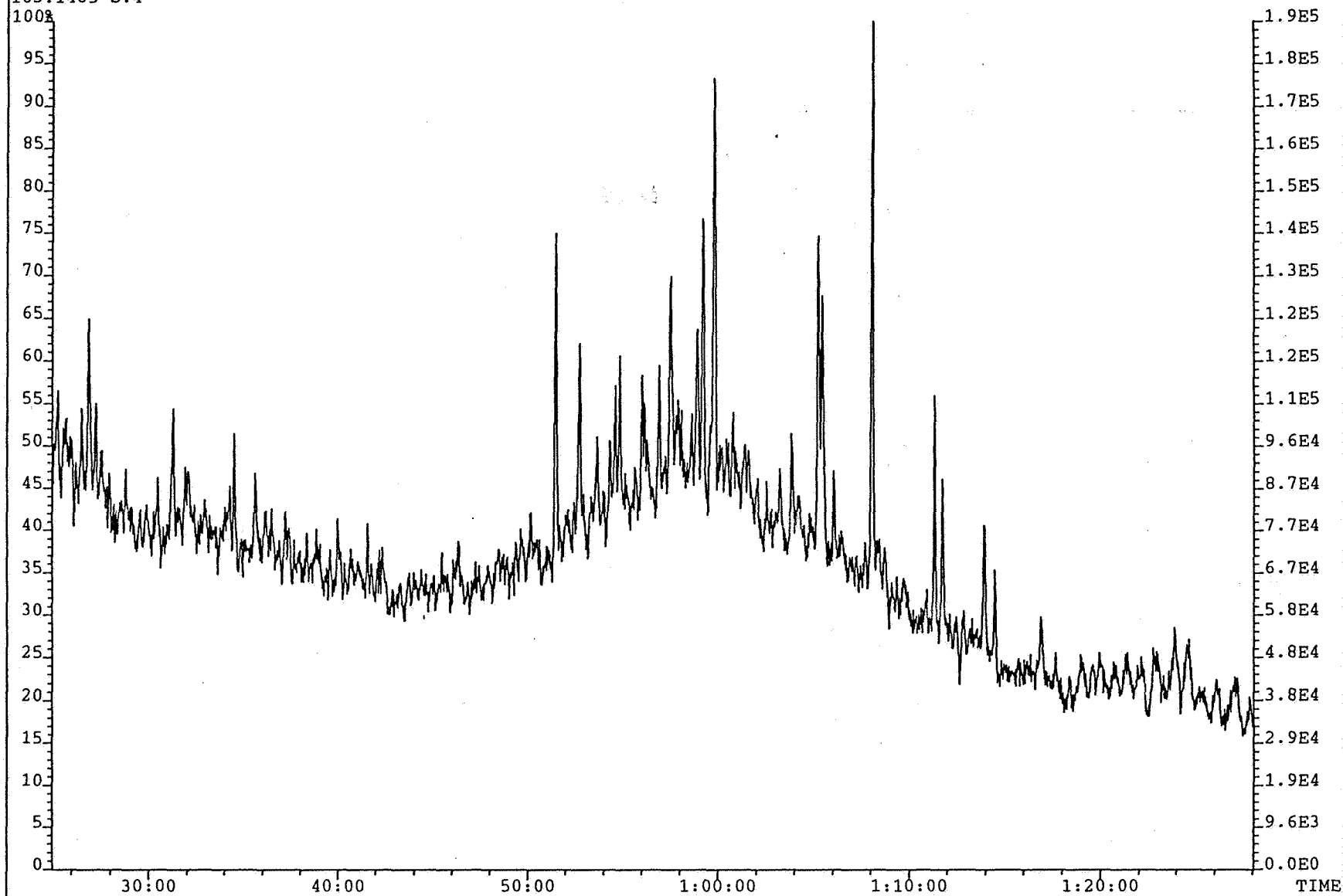
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
163.1485 S:4

Exp:SAT1



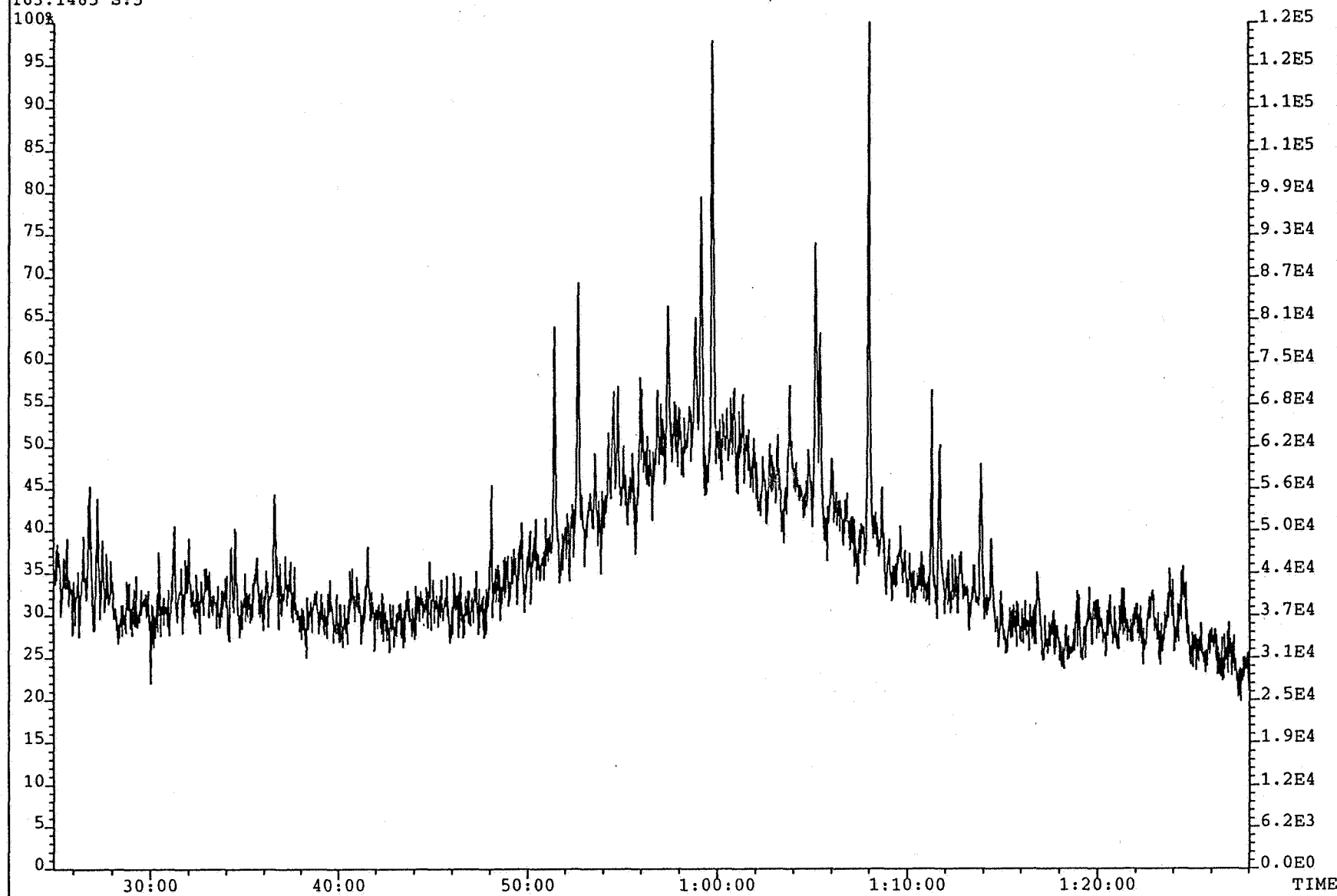
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
163.1485 S:5

Exp:SAT1



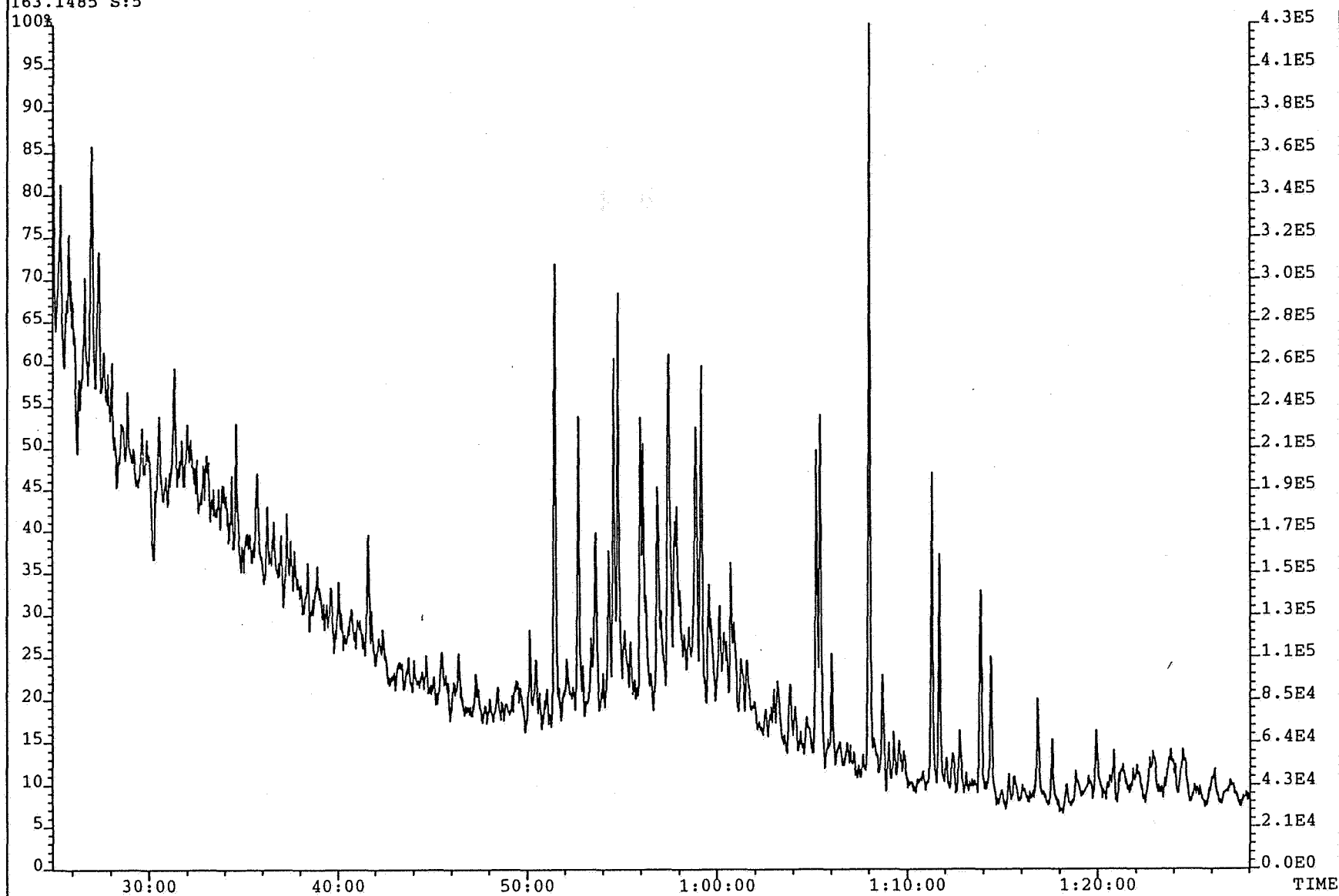
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
163.1485 S:5

Exp:SAT1



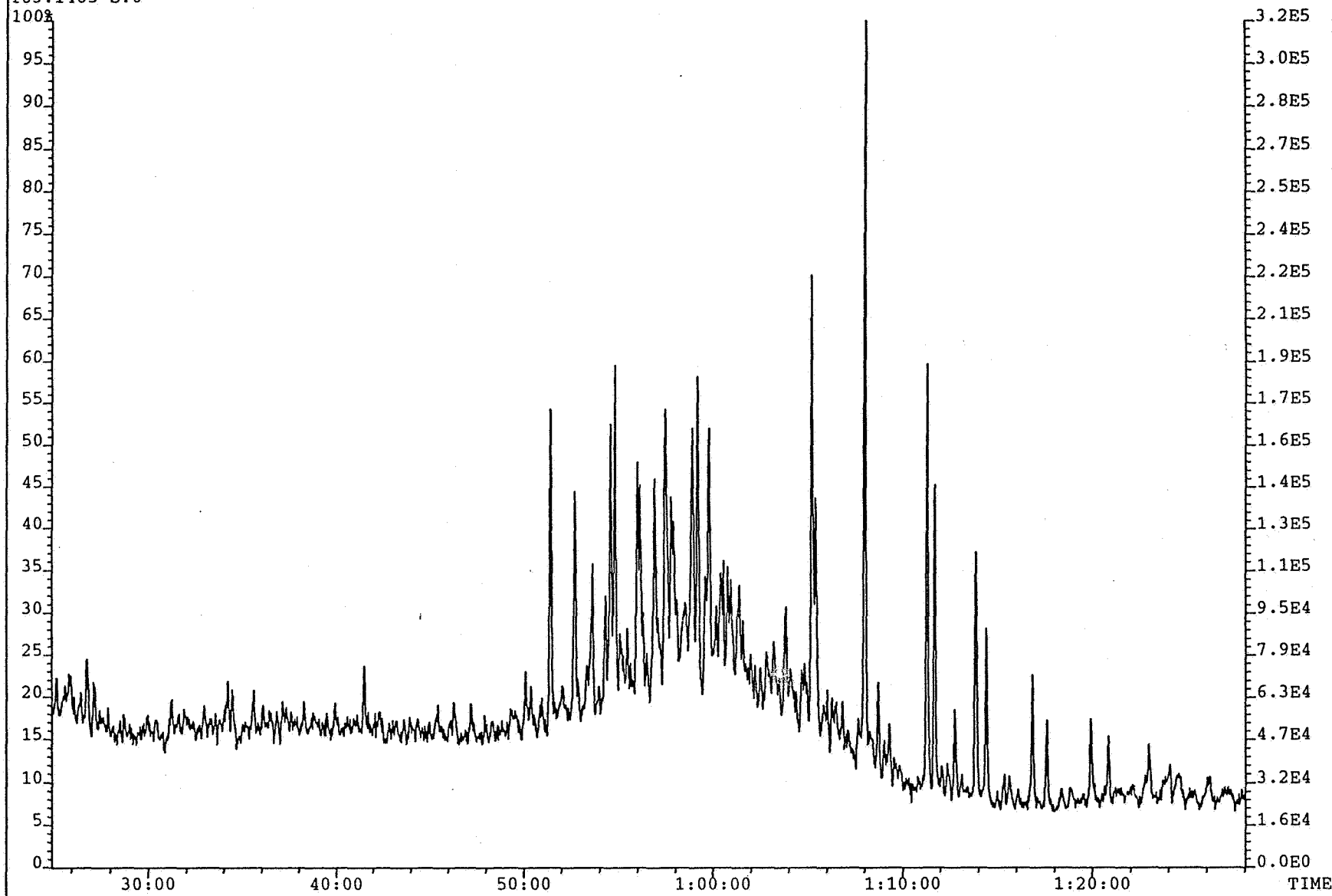
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
163.1485 S:6

Exp:SAT1



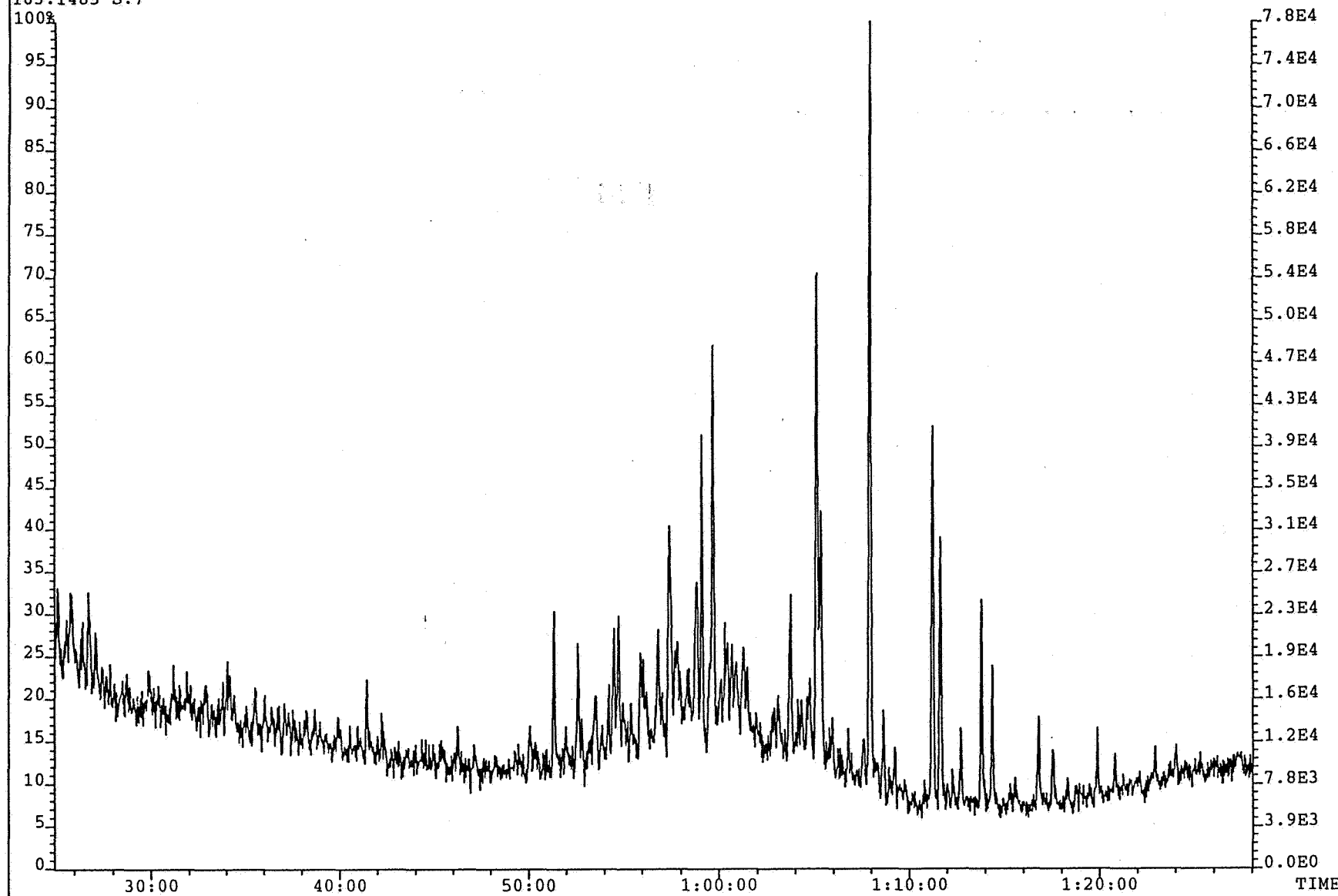
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
163.1485 S:7

Exp:SAT1



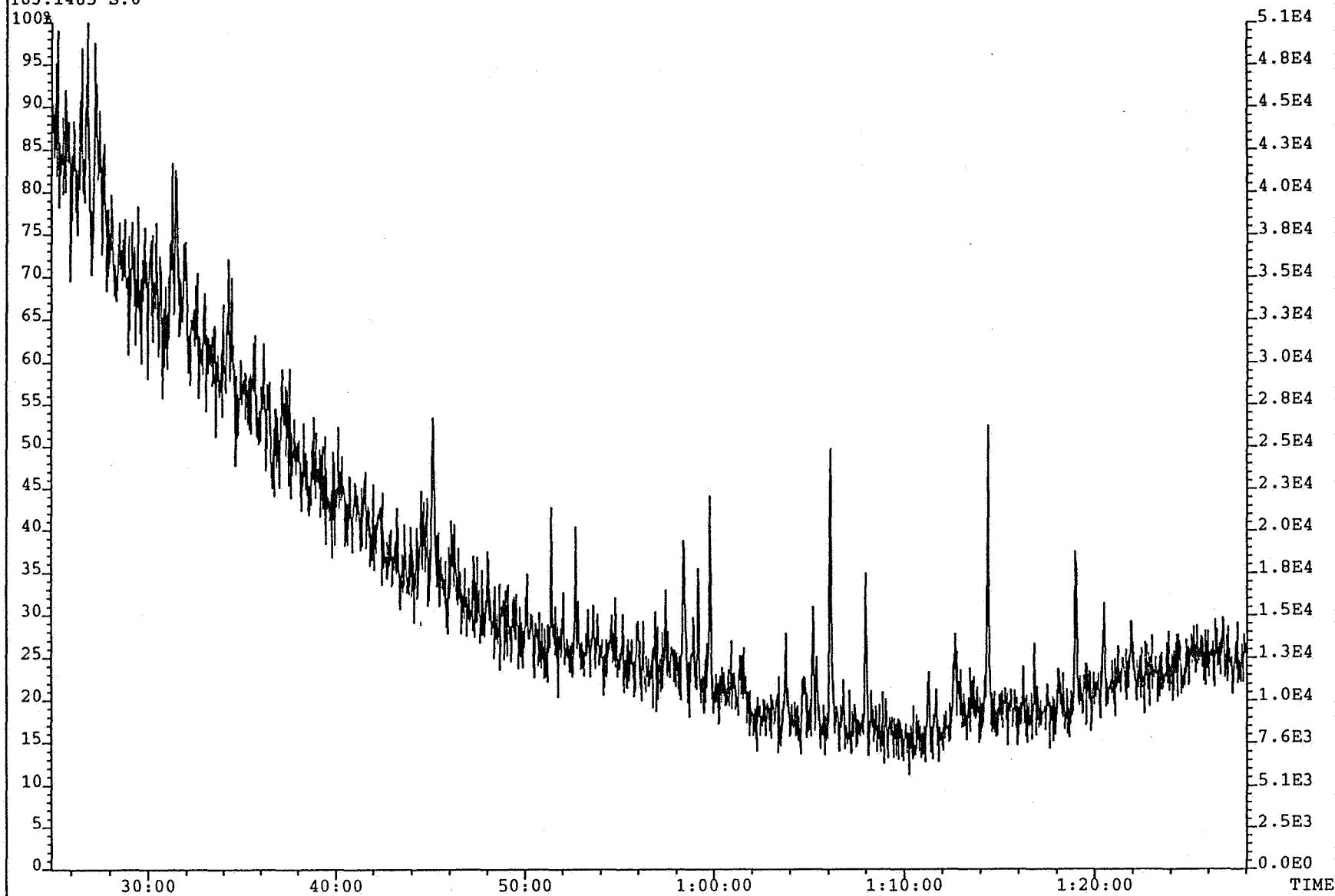
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
163.1485 S:6

Exp:SAT1



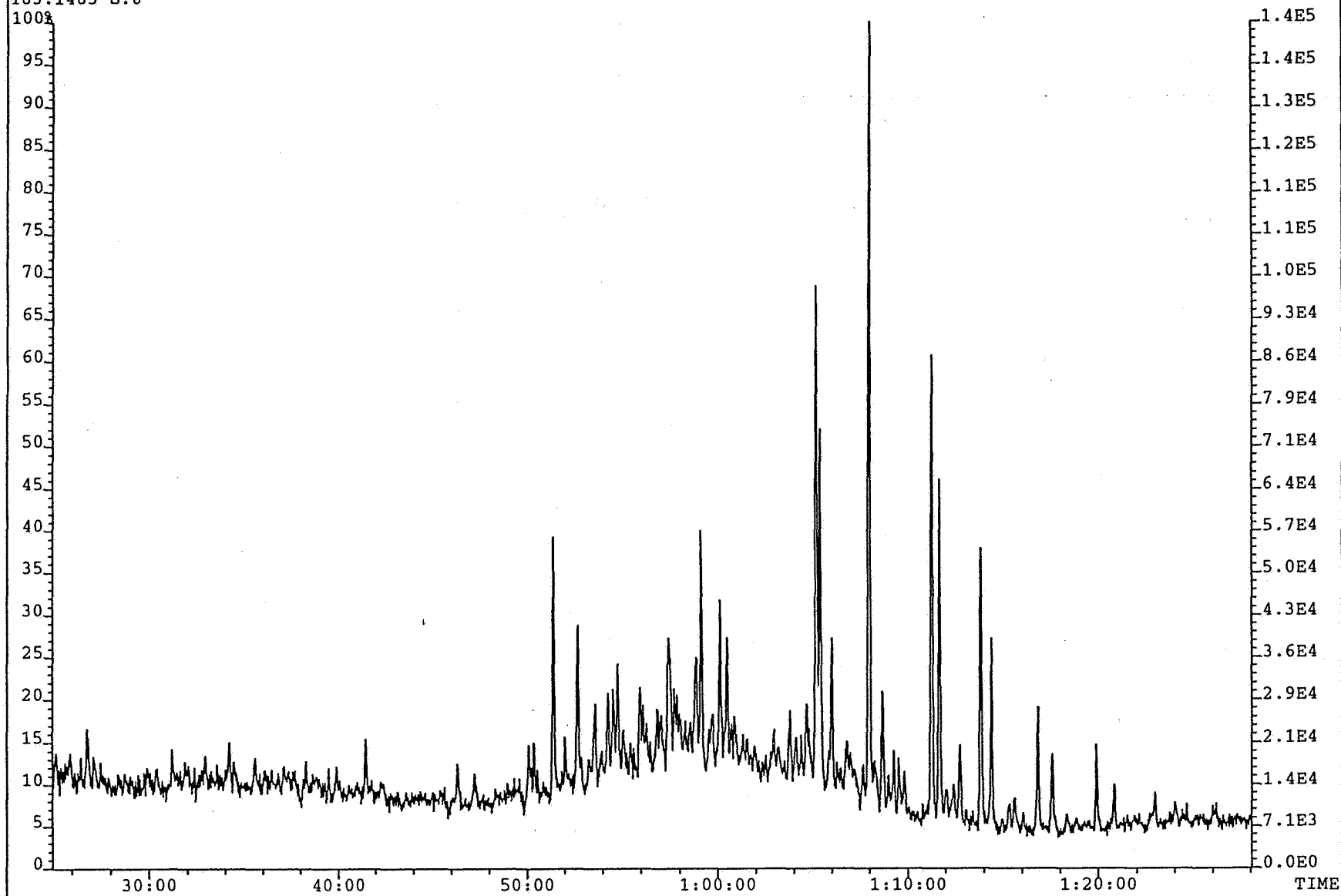
Schlumberger

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GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
163.1485 S:8

Exp:SAT1



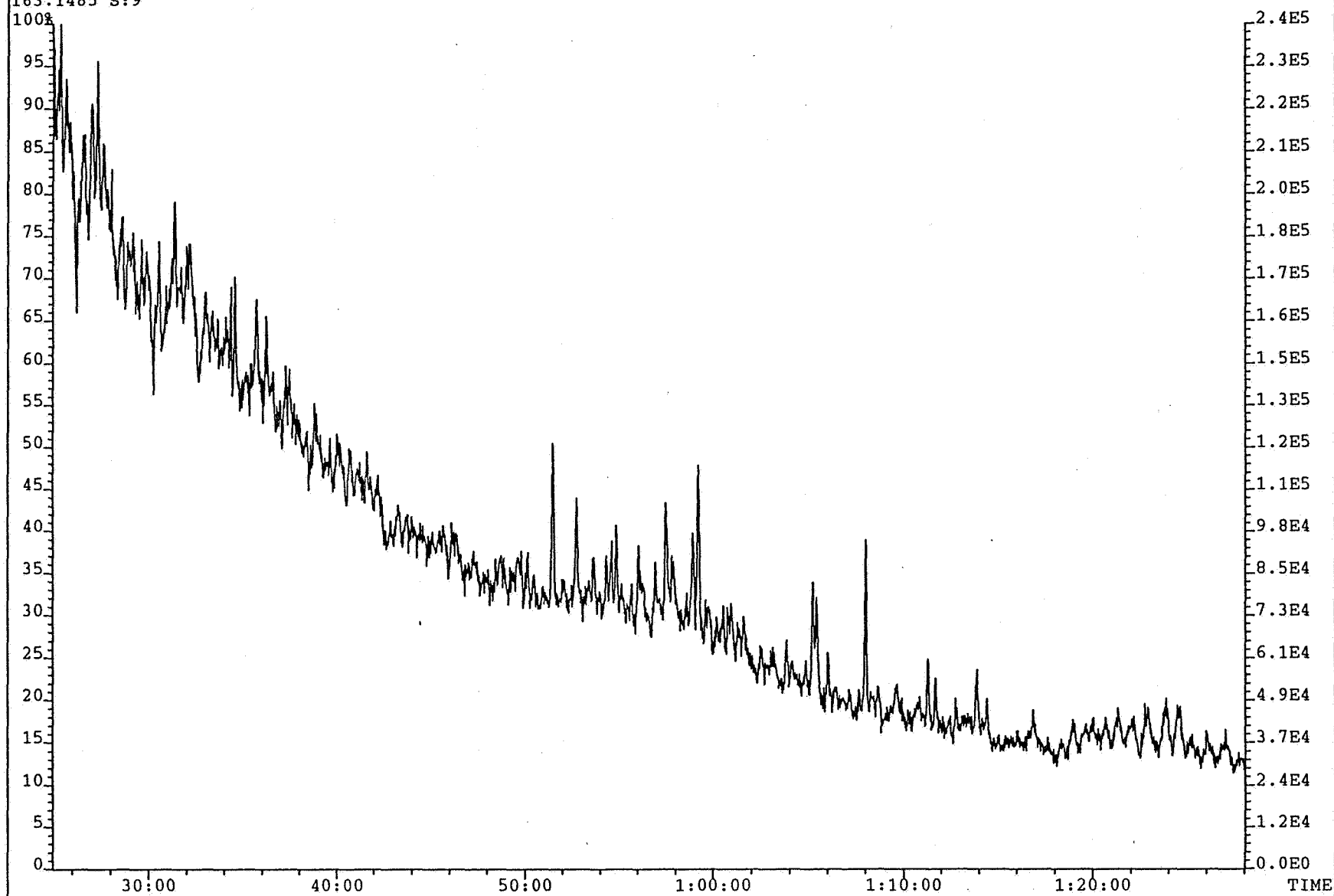
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
163.1485 S:9

Exp:SAT1



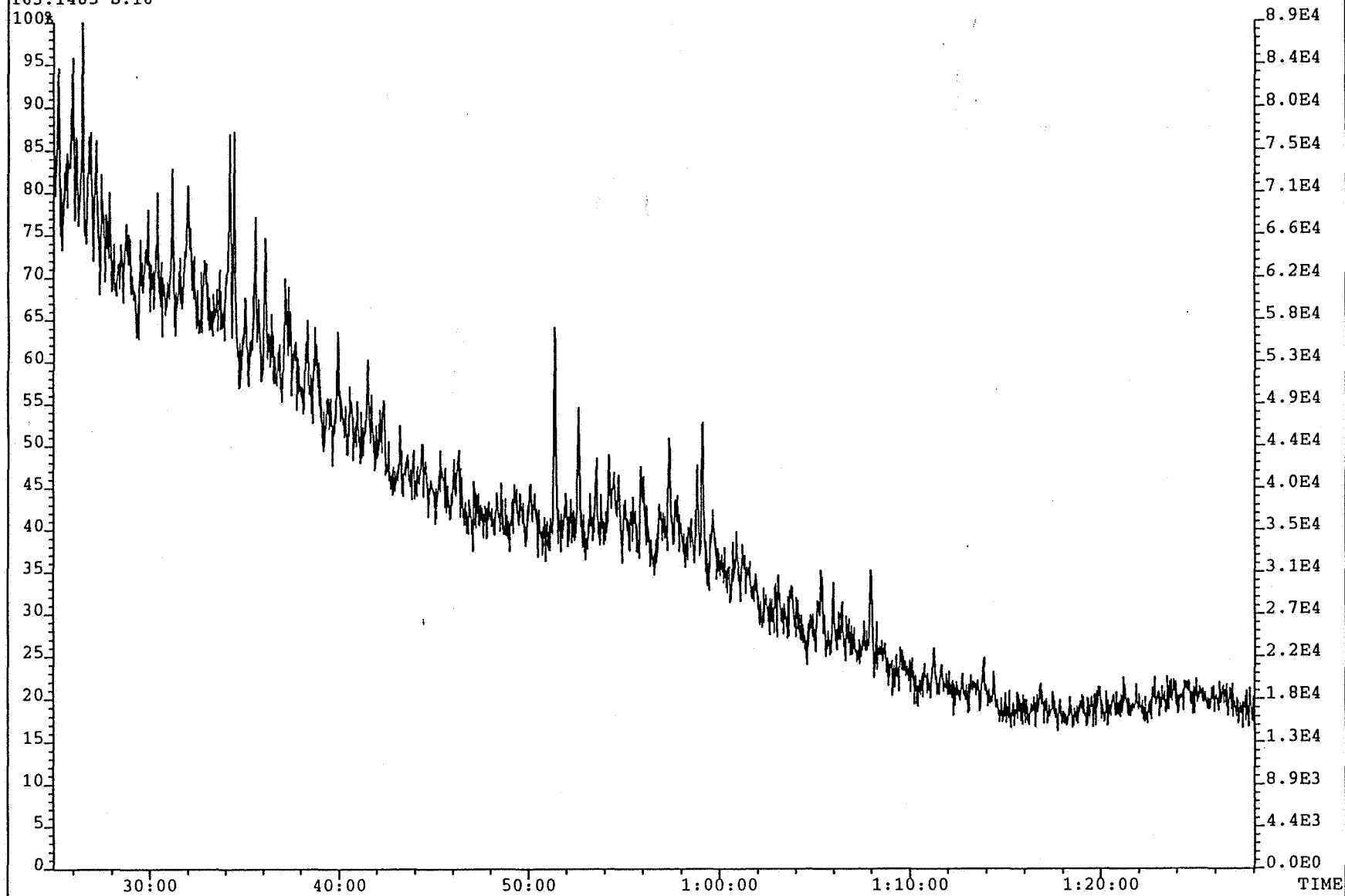
Schlumberger

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GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
163.1485 S:10

Exp: SAT1



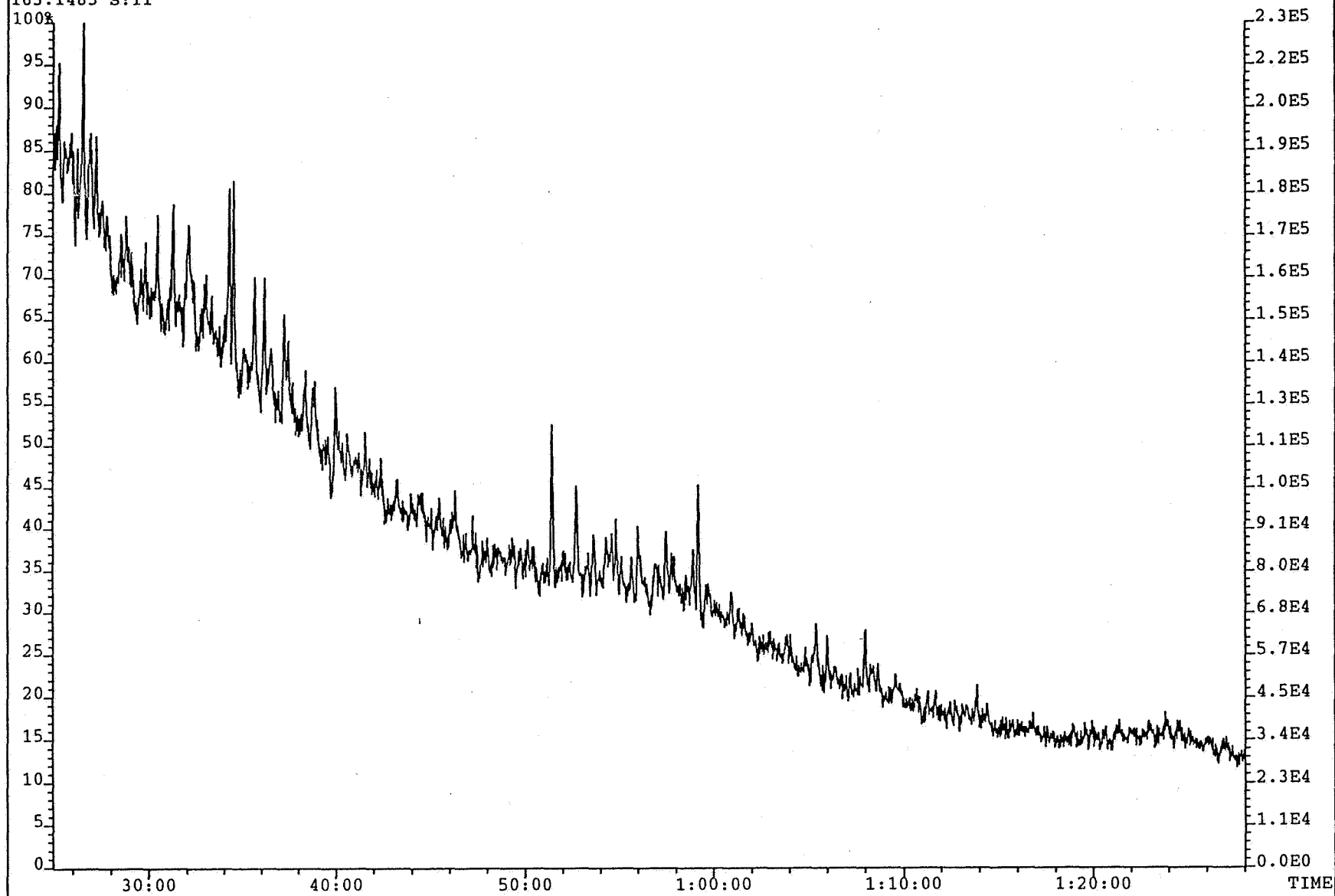
Schlumberger

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GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
163.1485 S:11

Exp:SAT1



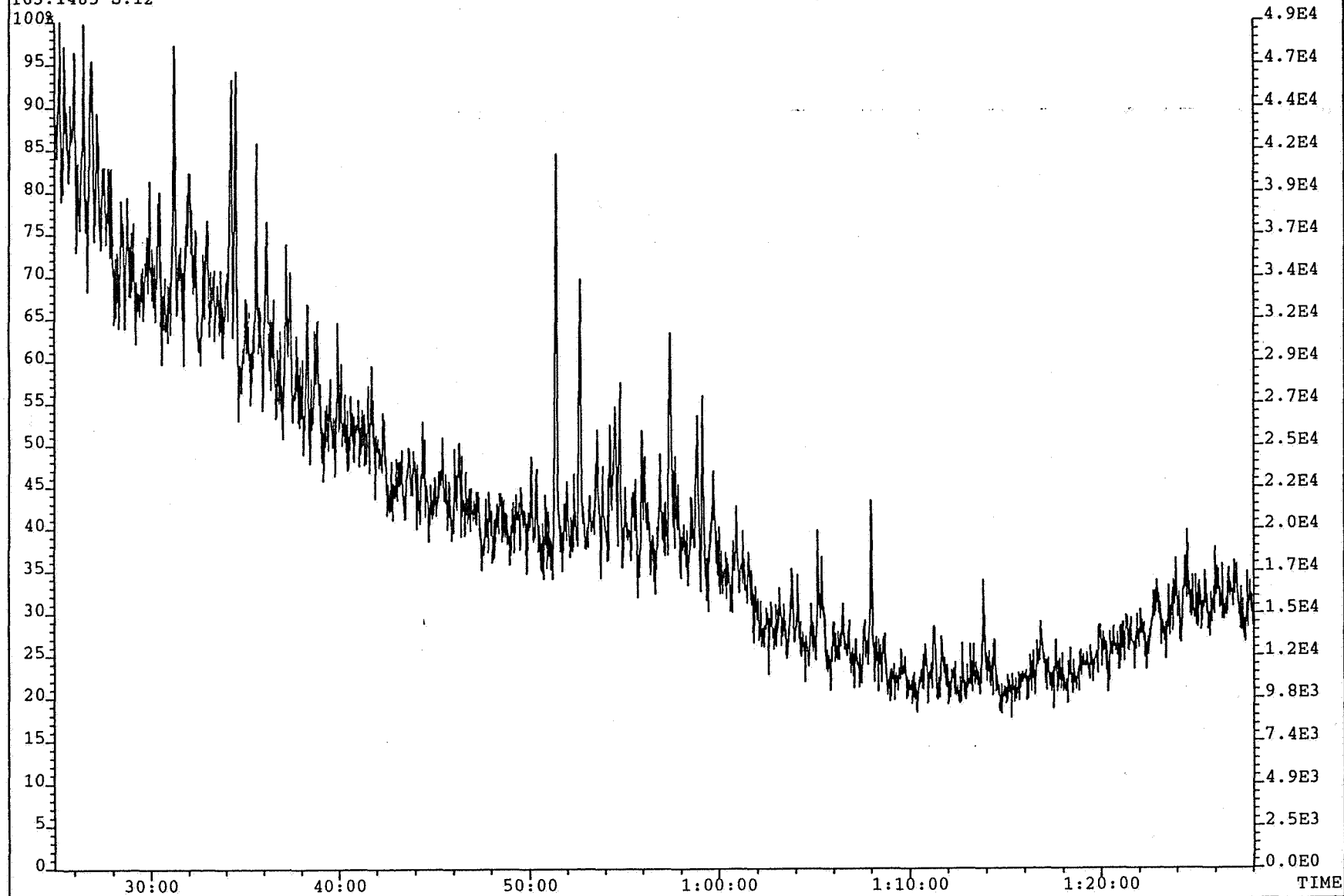
Schlumberger

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GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
163.1485 S:12

Exp:SAT1



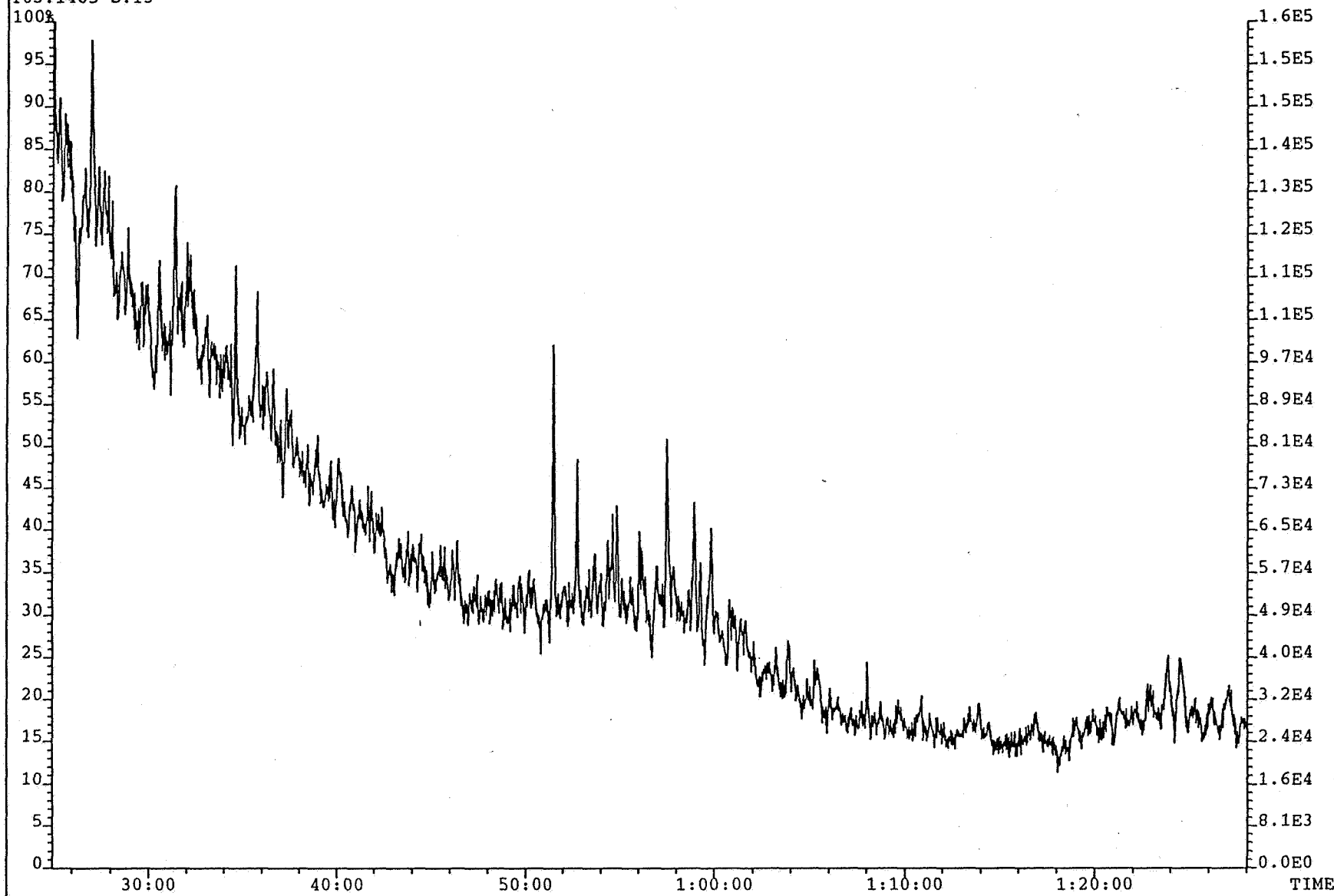
Schlumberger

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GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
163.1485 S:13

Exp:SAT1



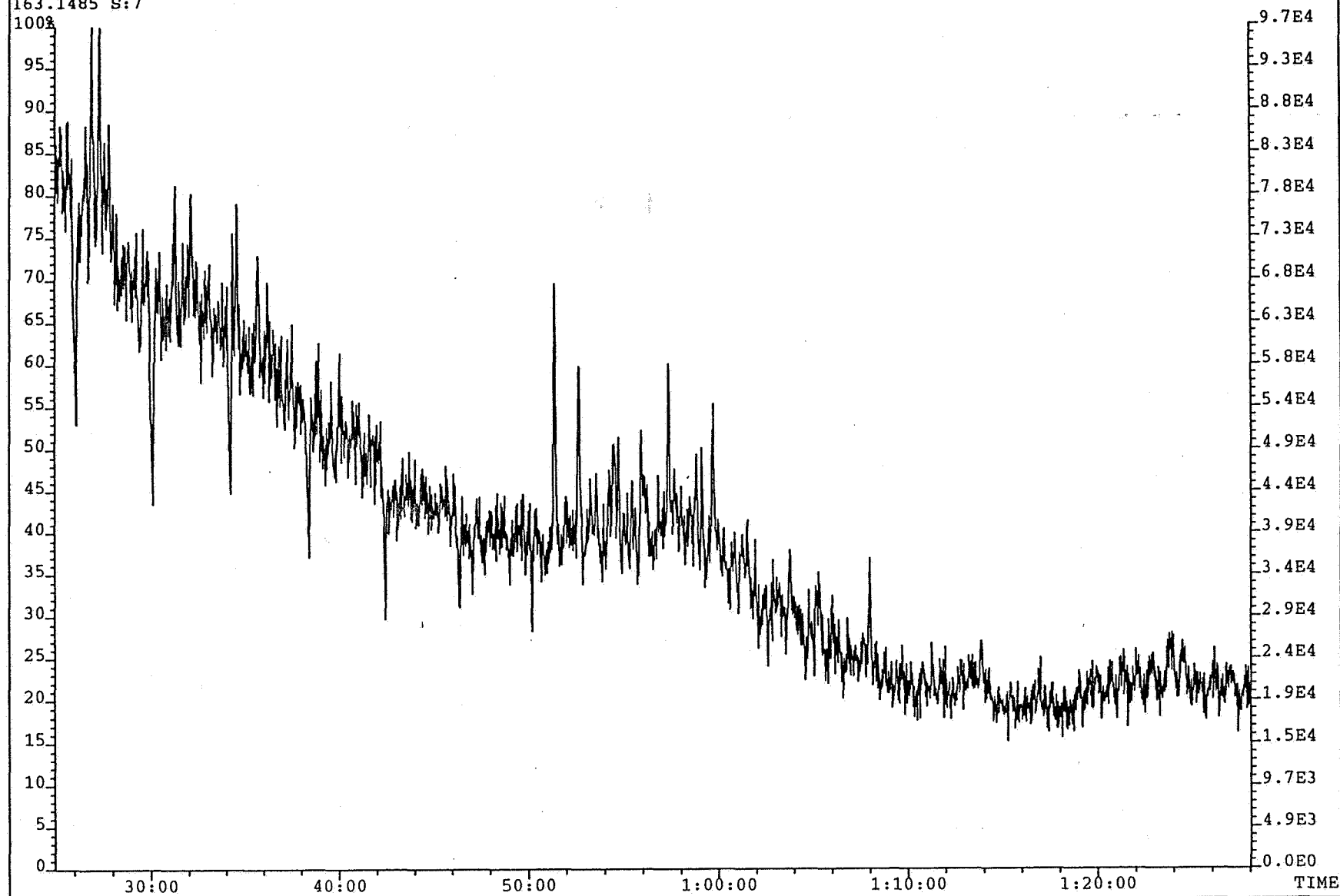
Schlumberger

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GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
163.1485 S:7

Exp:SAT1



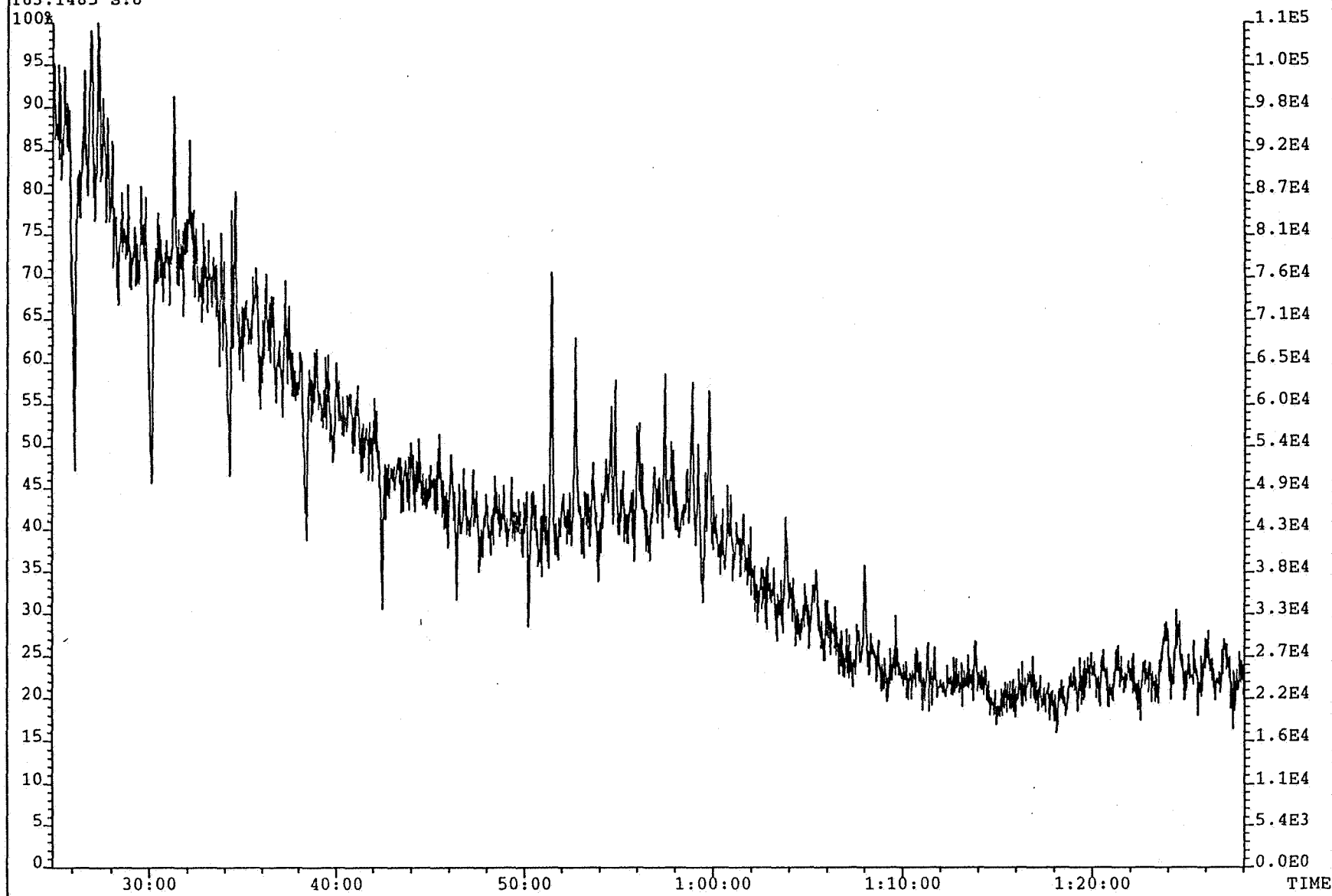
Schlumberger

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GEOLAB  NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
163.1485 S:8

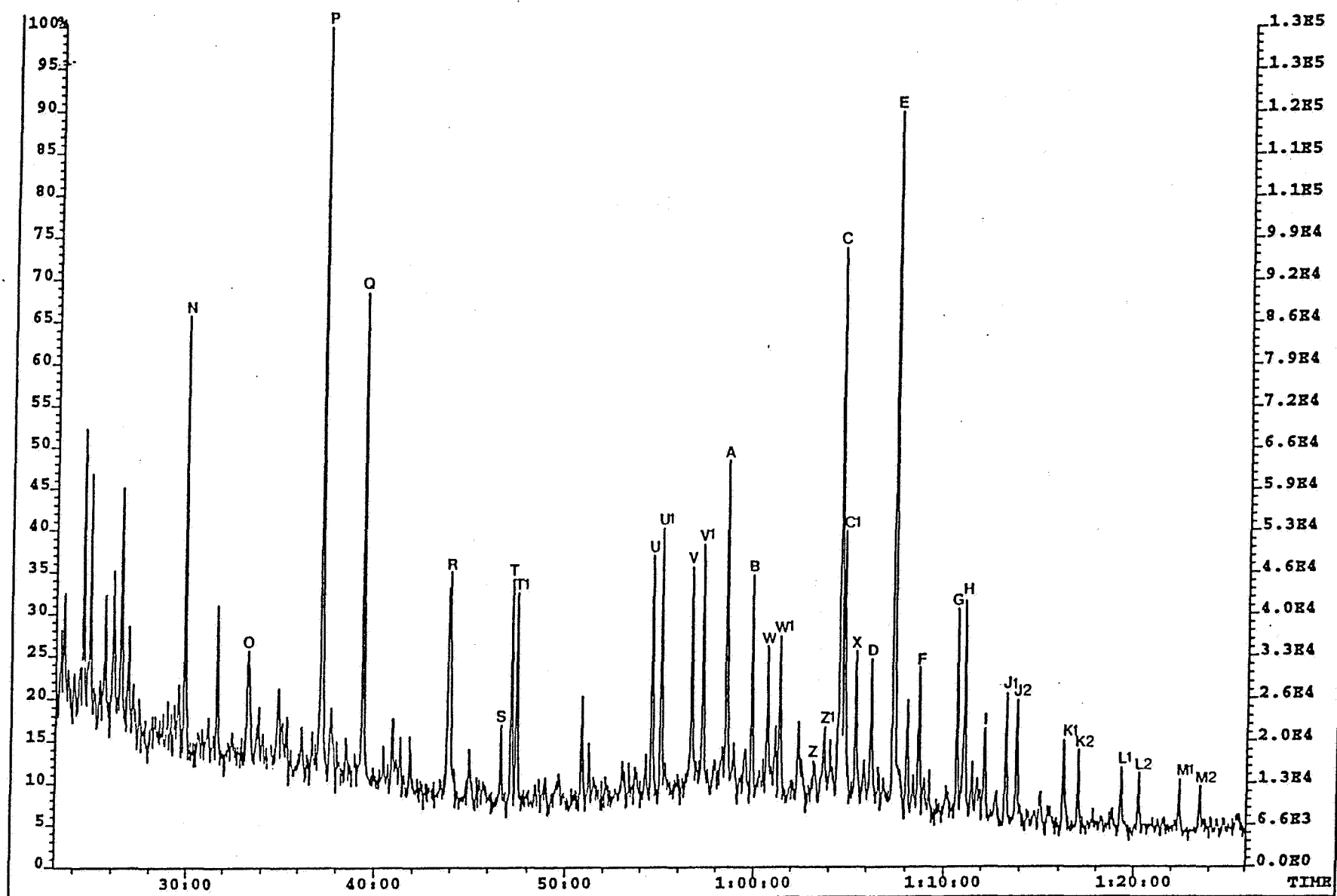
Exp:SAT1



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EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 191 - TRITERPANES



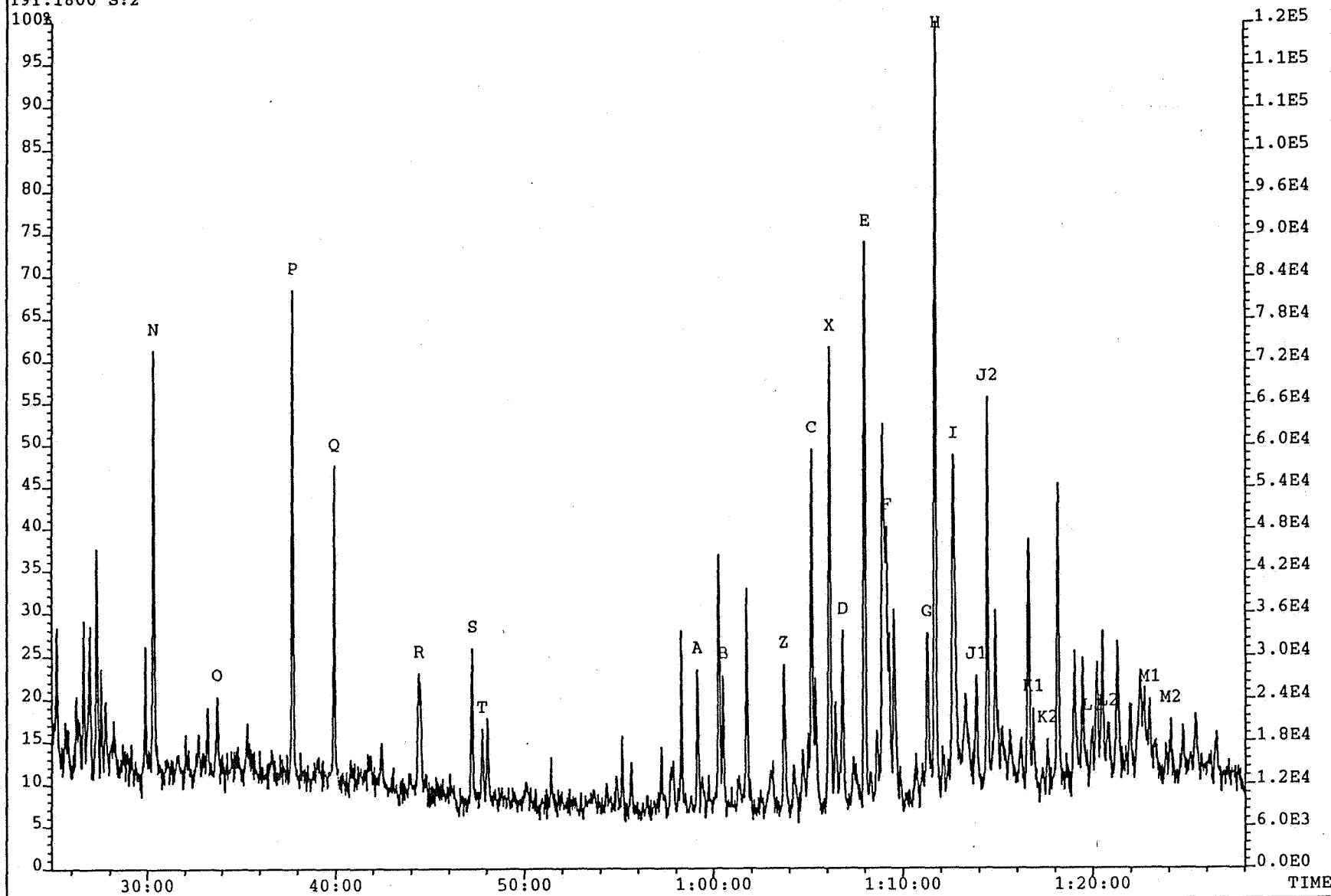
Schlumberger

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GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
191.1800 S:2

Exp:SAT1



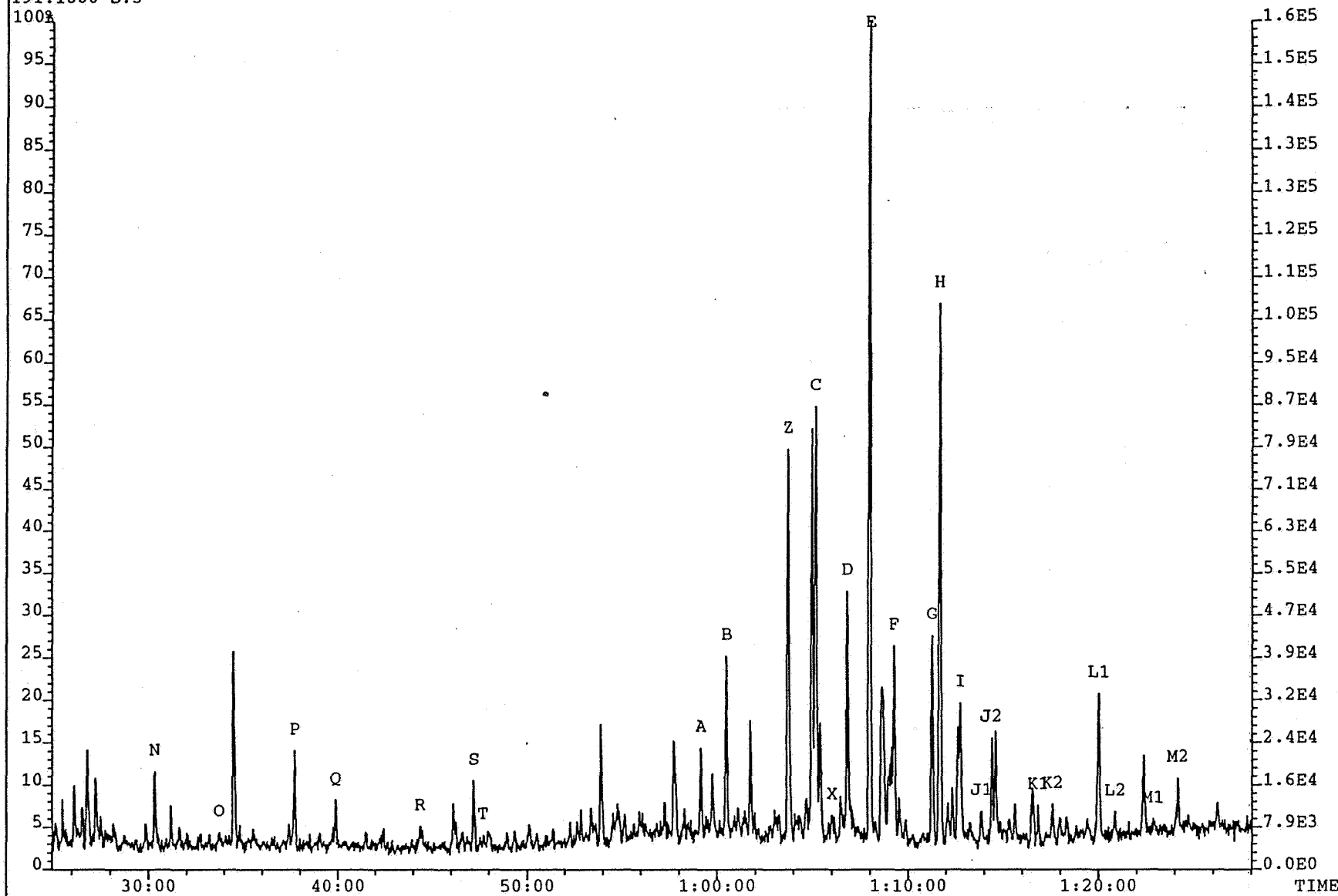
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
191.1800 S:3

Exp:SAT1



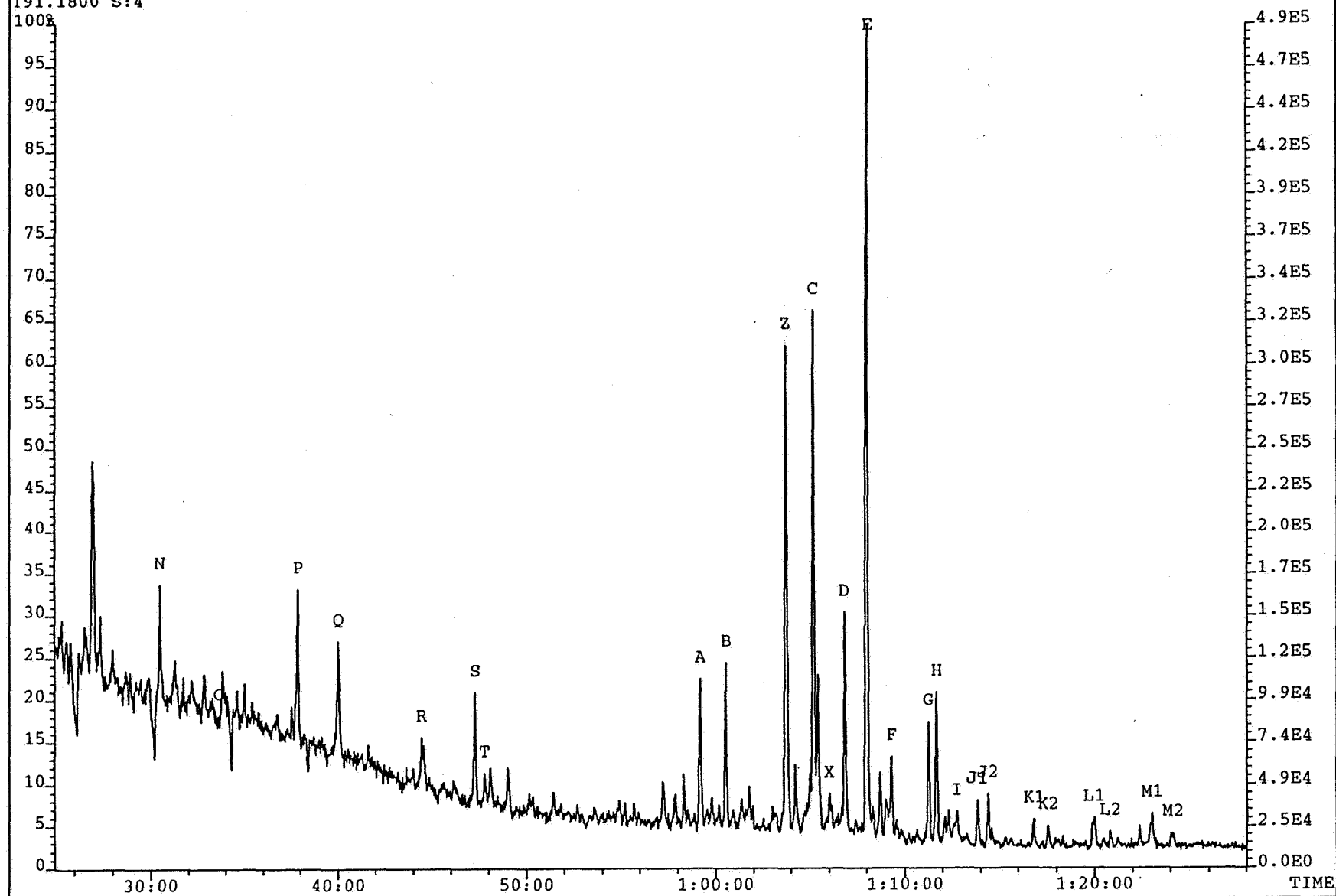
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
191.1800 S:4

Exp:SAT1

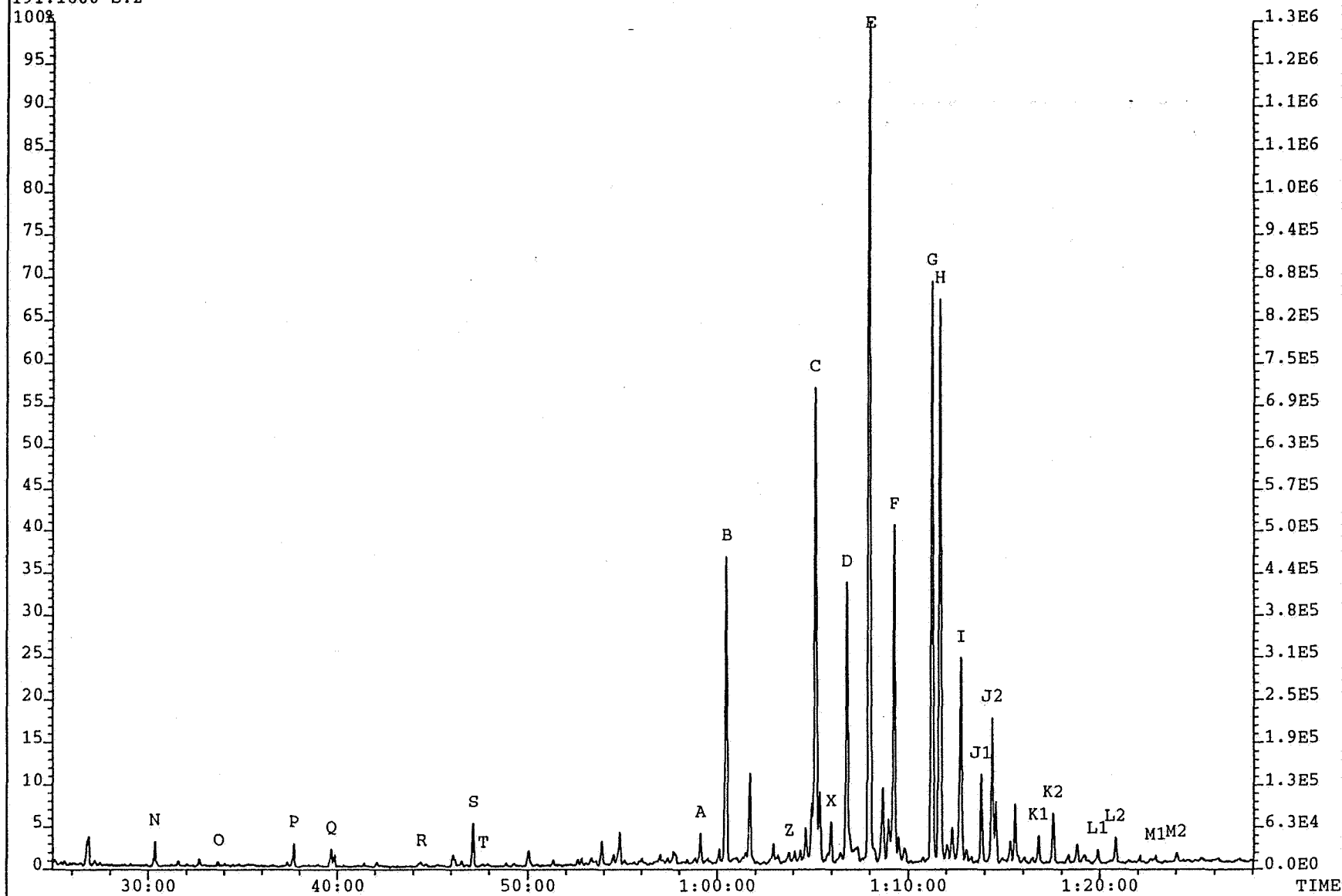


Schlumberger GECO-PRAKLA

GEOLAB NOR

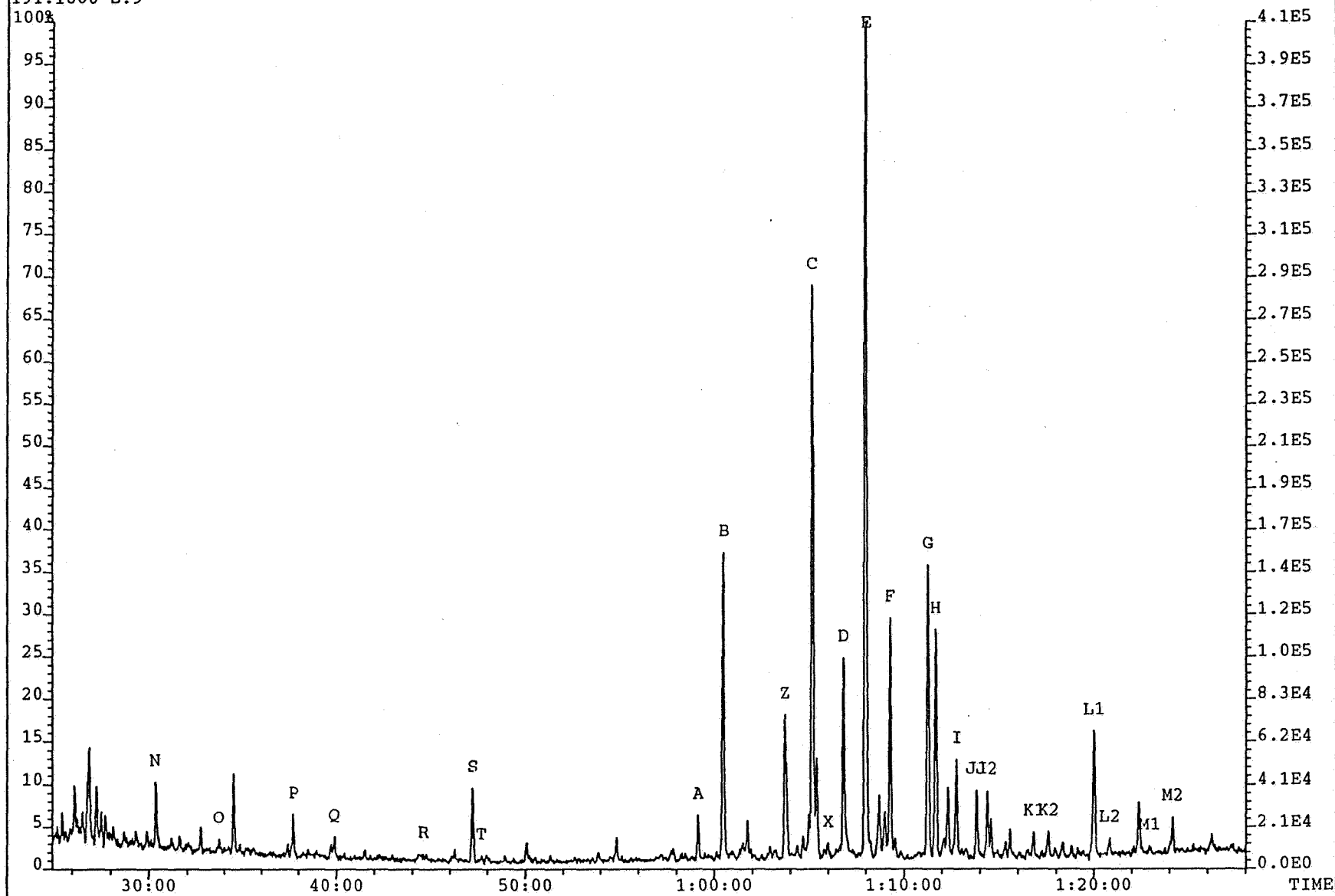
File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
 Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
 191.1800 S:2

Exp:SAT1



File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
191.1800 S:9

Exp:SAT1



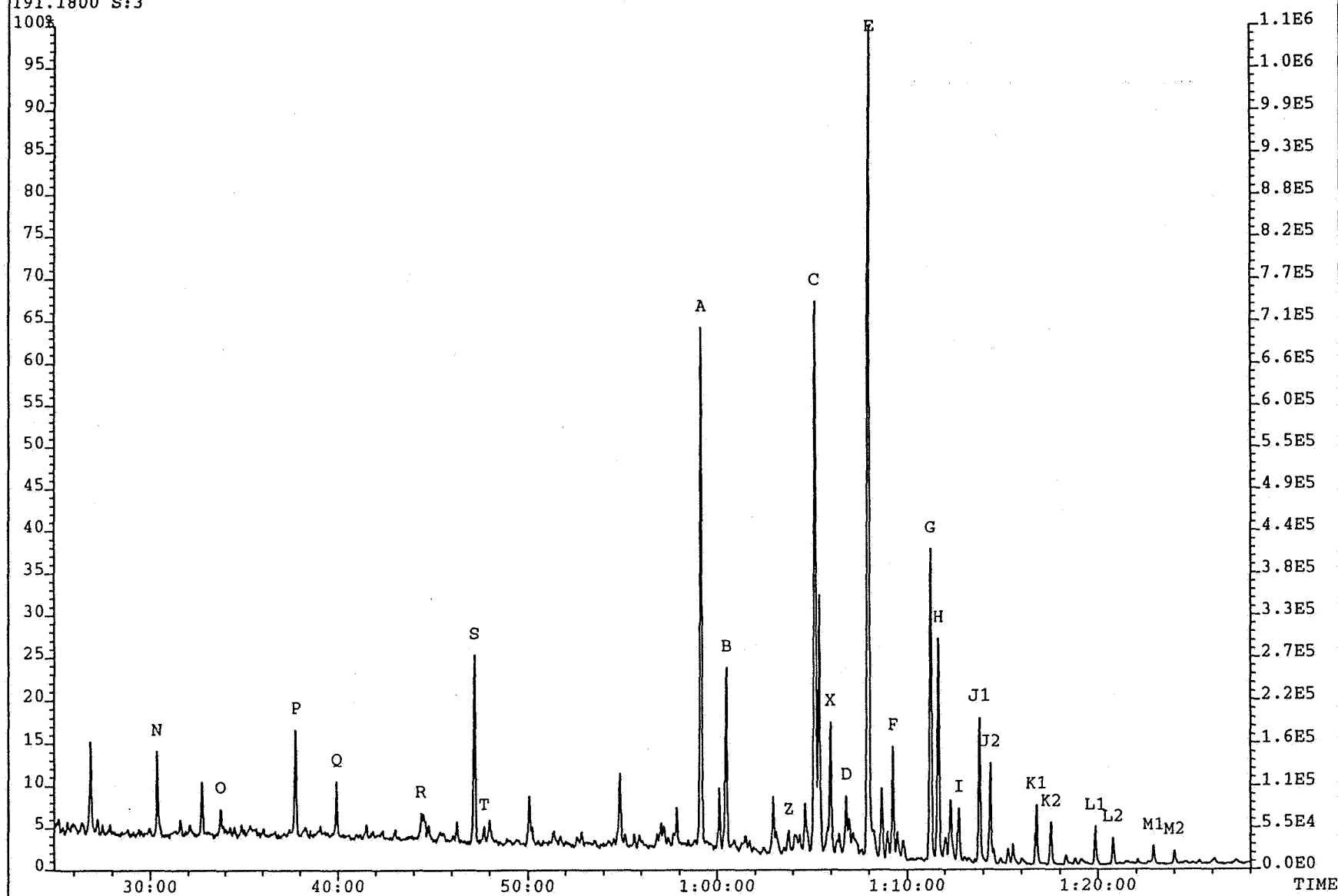
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
191.1800 S:3

Exp:SAT1



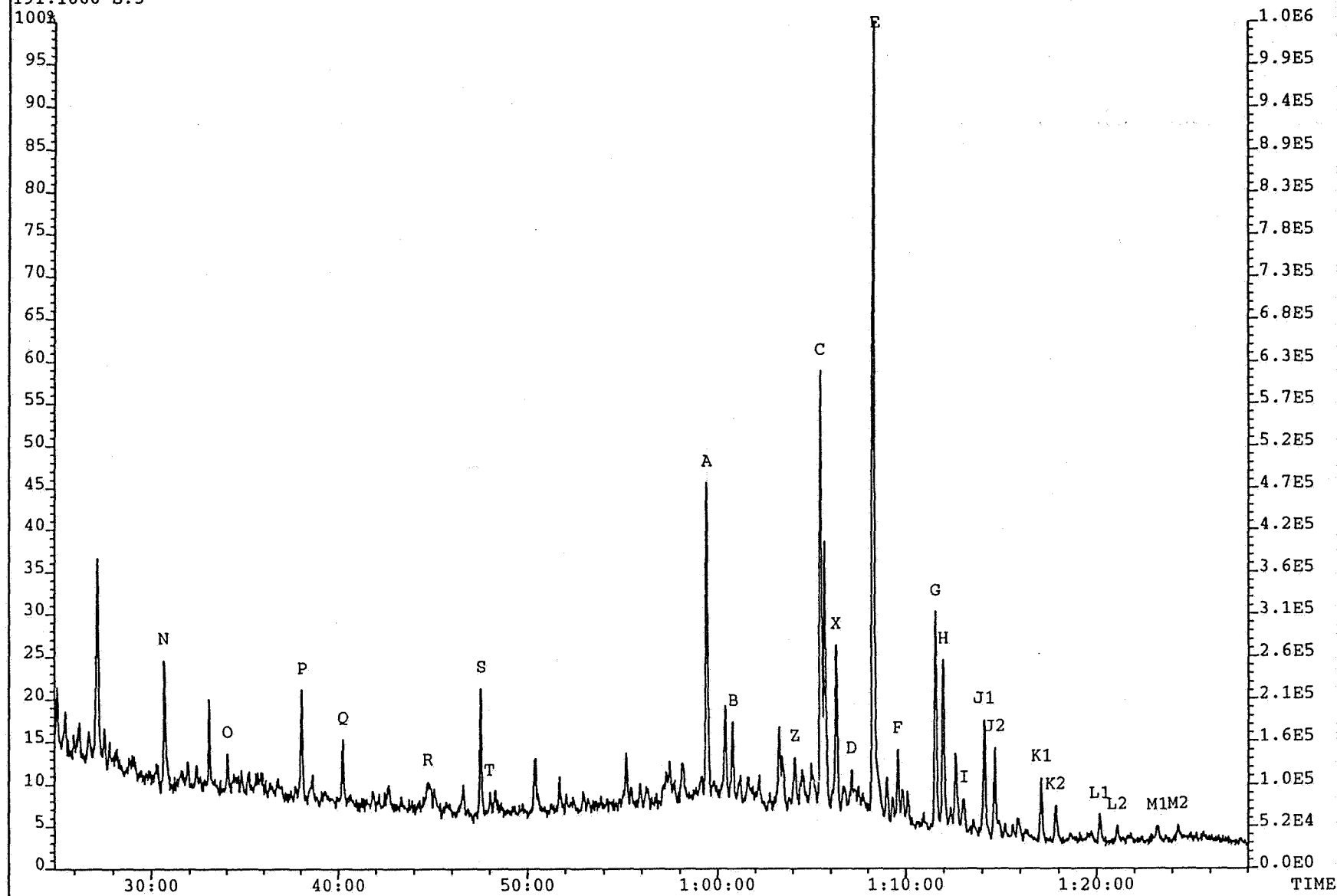
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
191.1800 S:5

Exp:SAT1



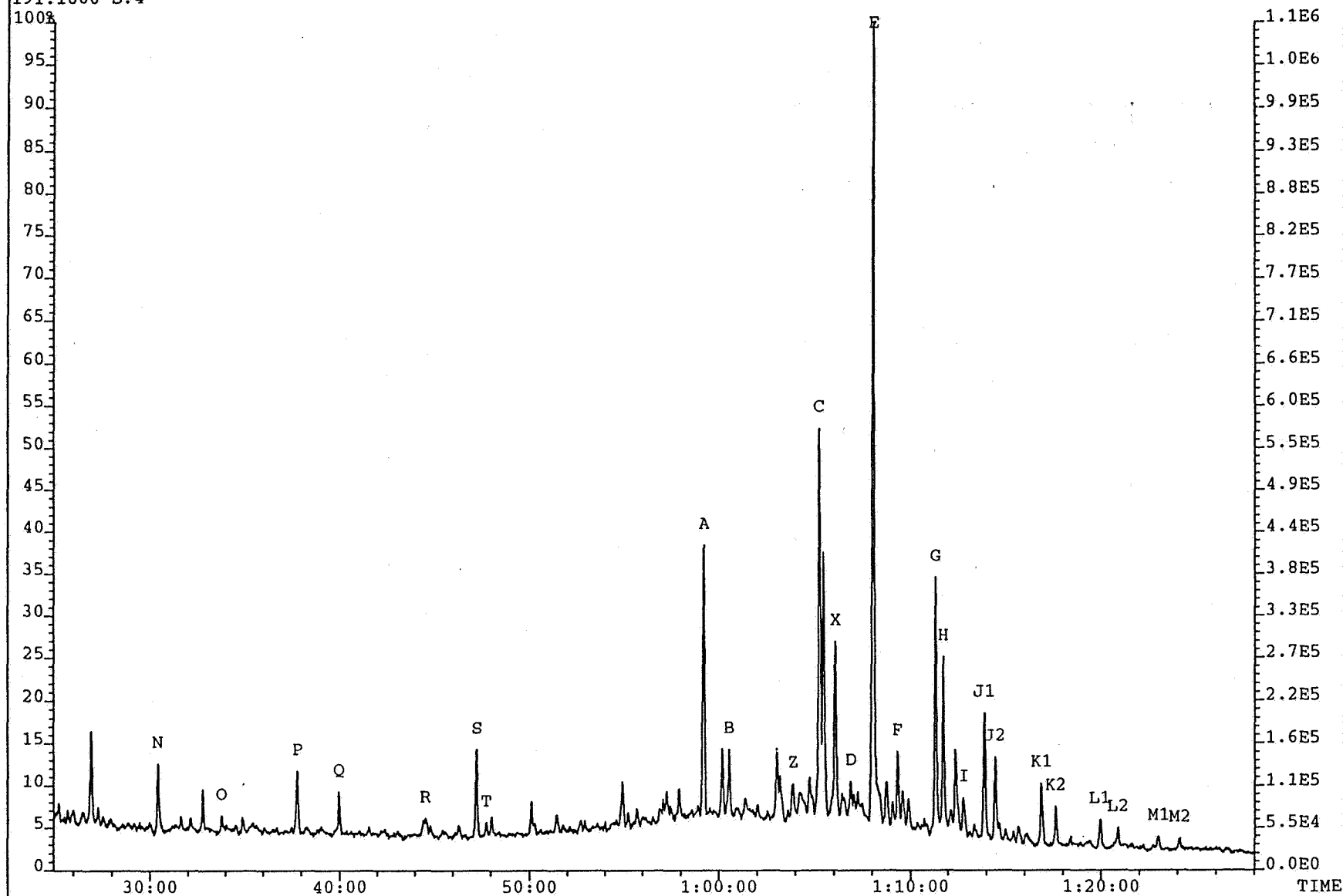
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
191.1800 S:4

Exp:SAT1



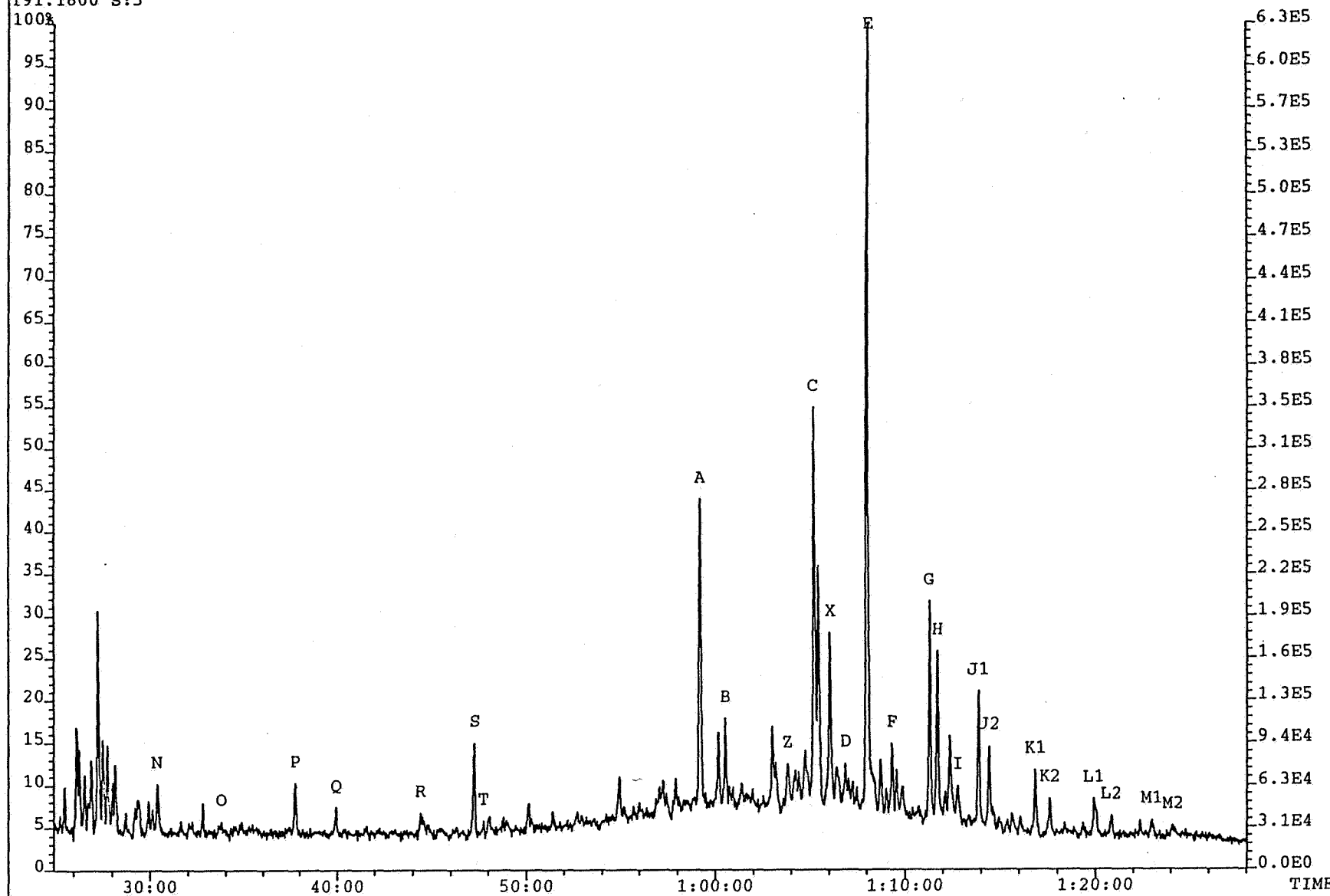
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
191.1800 S:5

Exp:SAT1



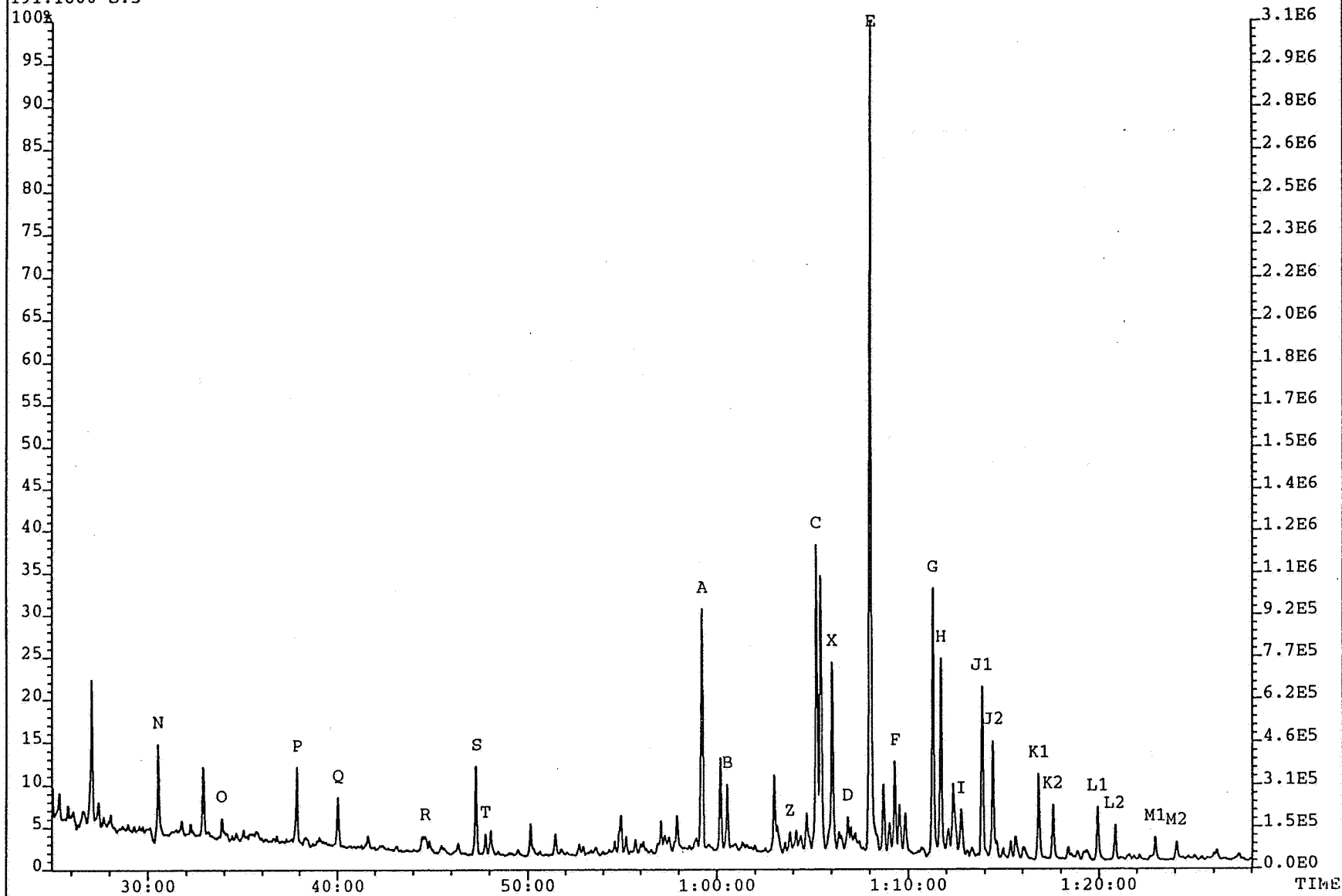
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
191.1800 S:5

Exp:SAT1



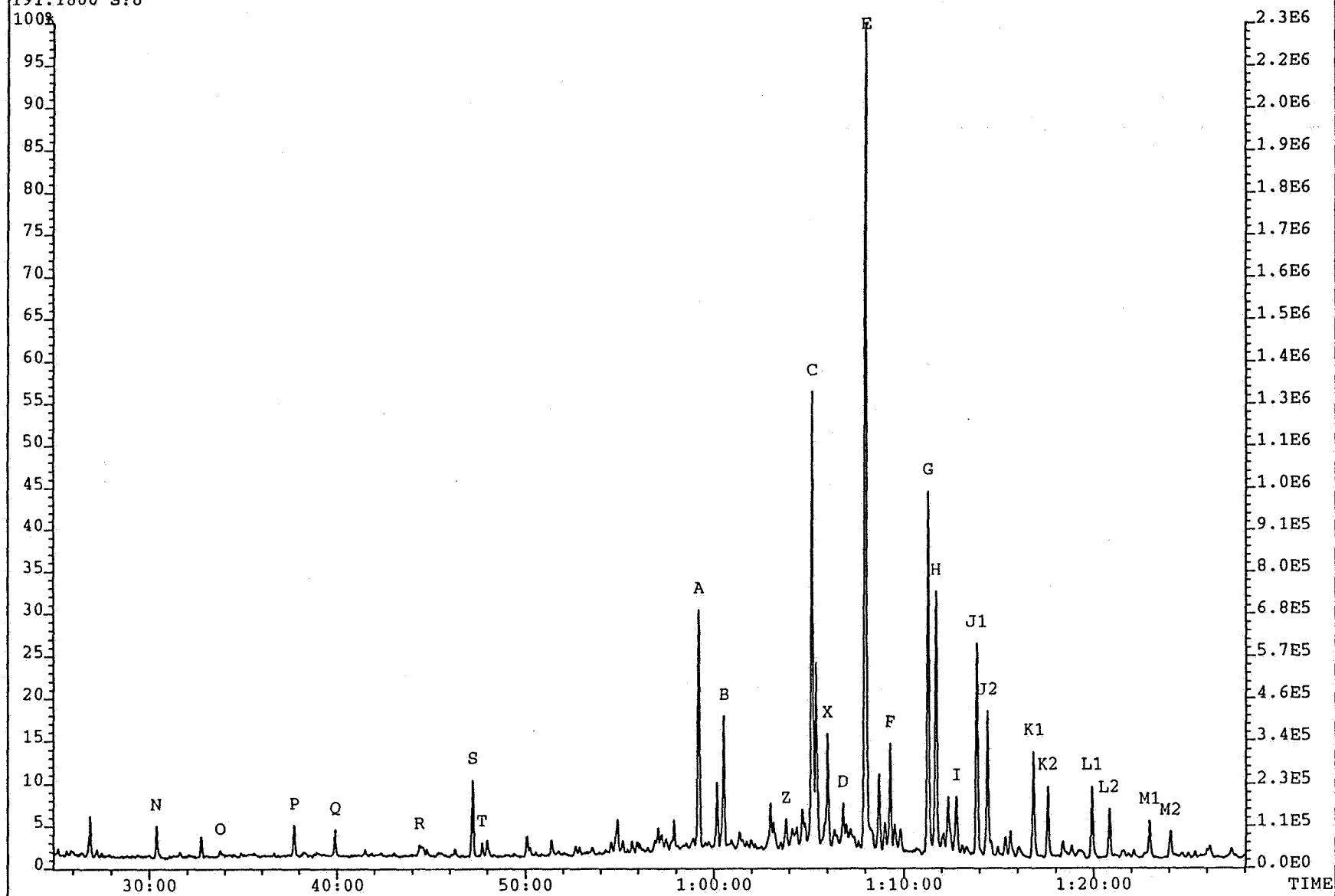
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
191.1800 S:6

Exp:SAT1



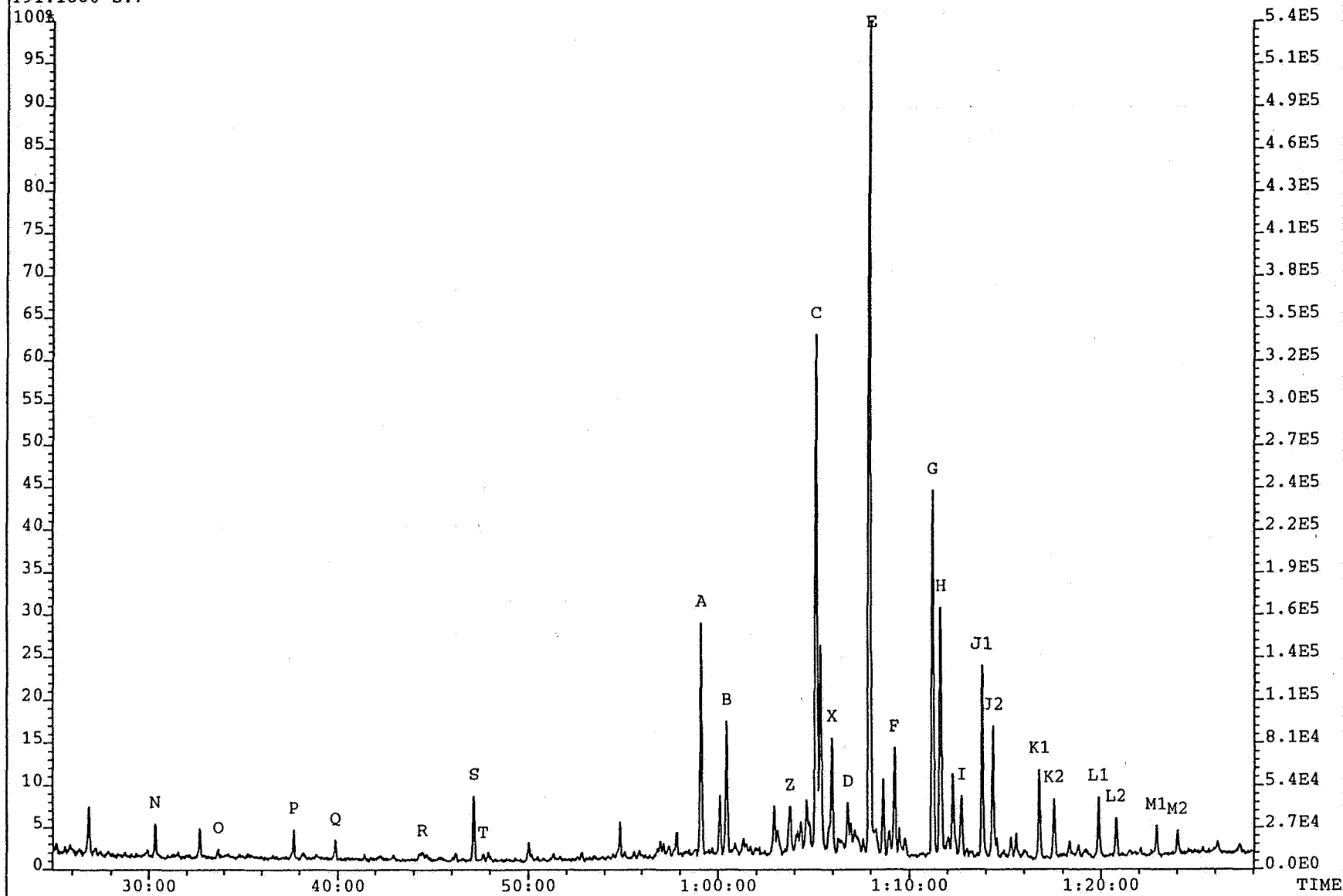
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
191.1800 S:7

Exp:SAT1



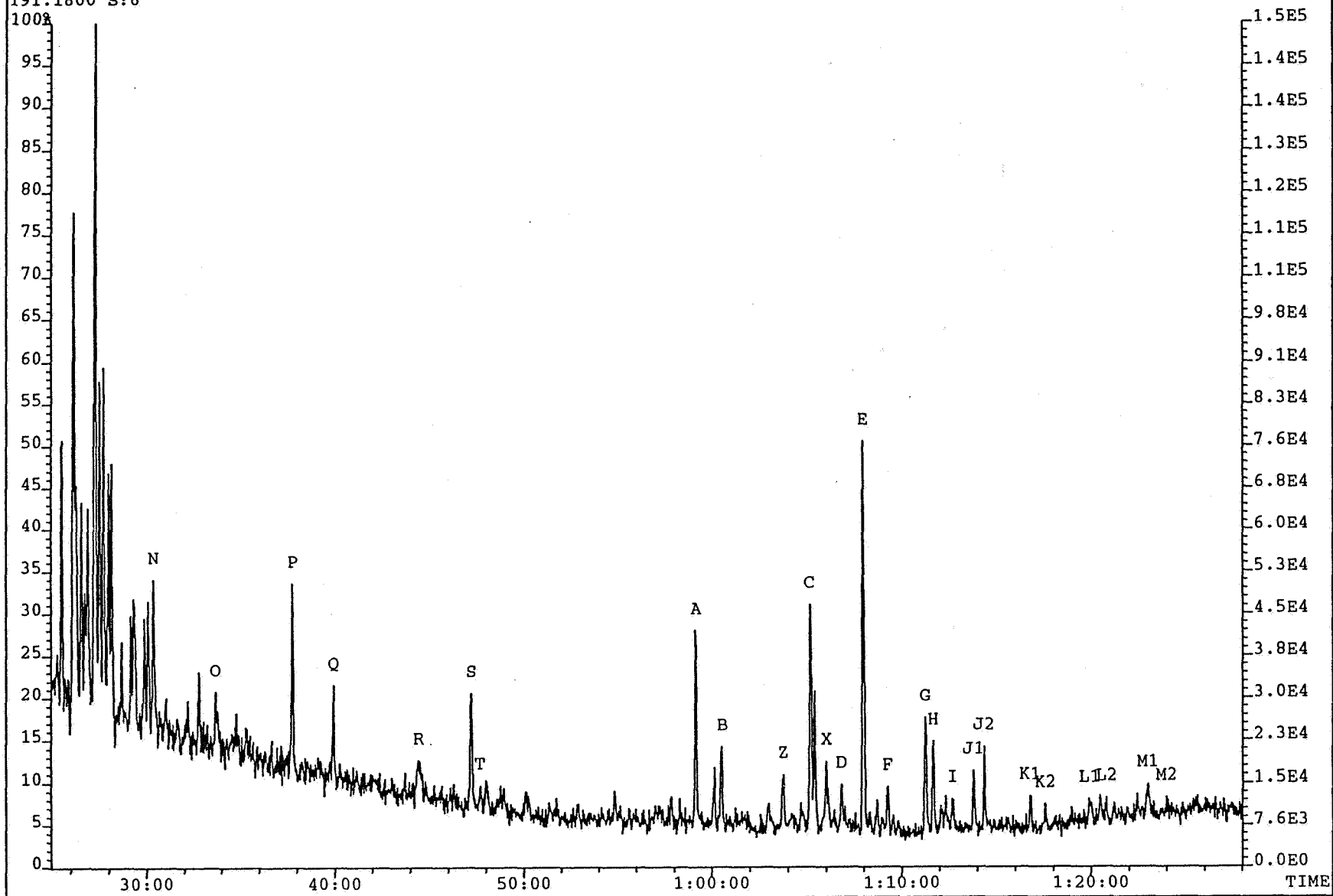
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
191.1800 S:6

Exp:SAT1



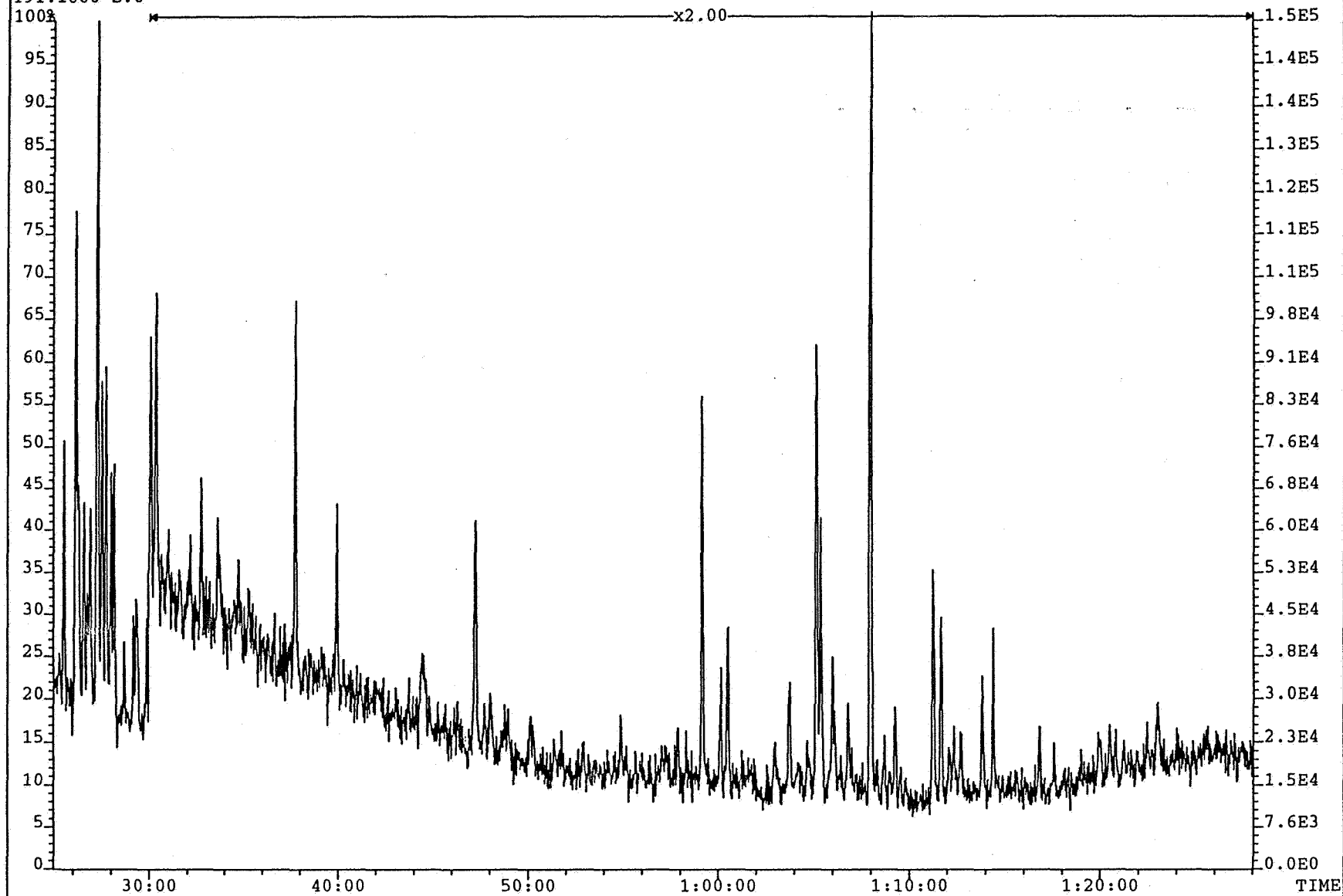
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
191.1800 S:6

Exp:SAT1



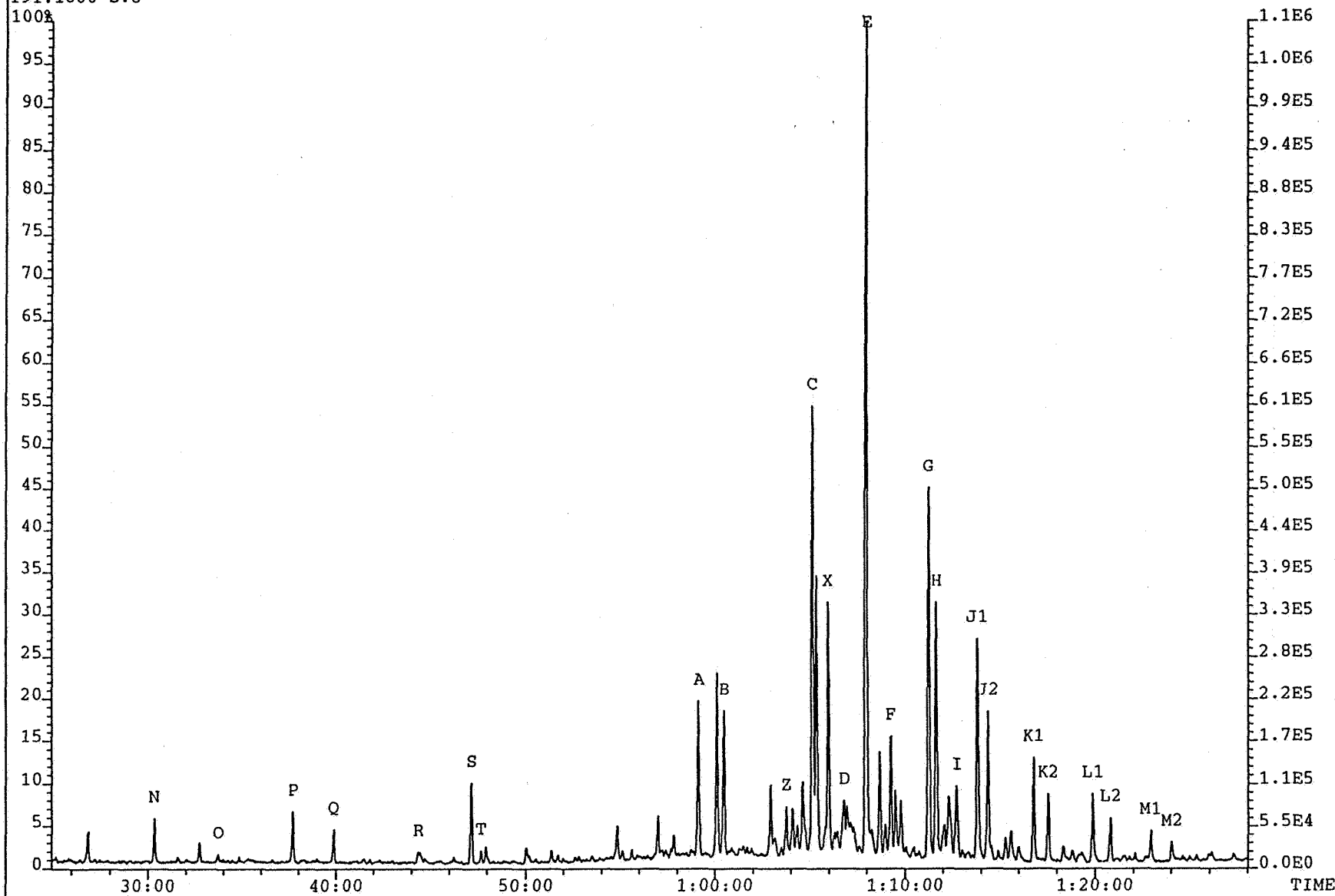
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
191.1800 S:8

Exp:SAT1

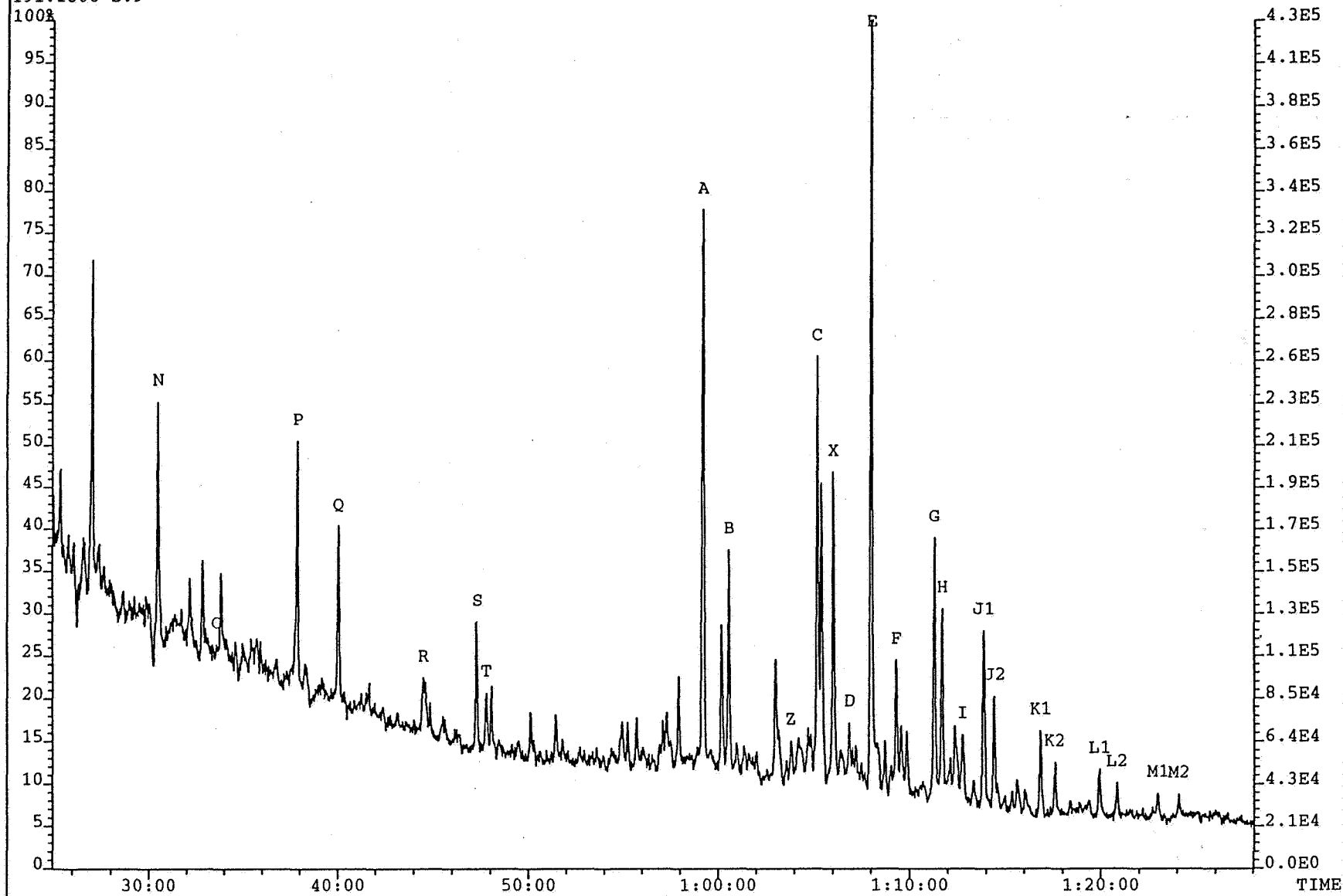


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
191.1800 S:9

Exp: SAT1



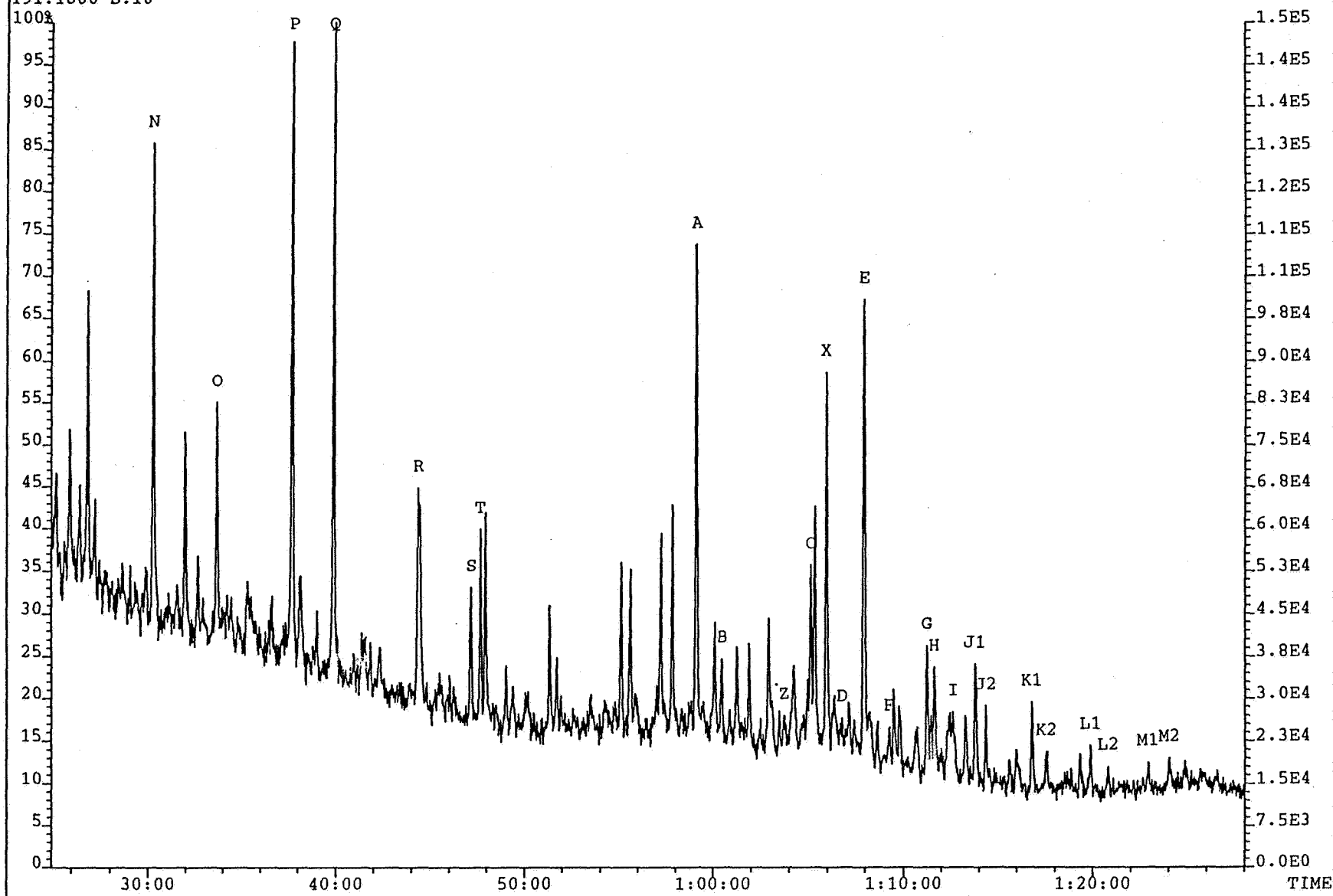
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
191.1800 S:10

Exp:SAT1

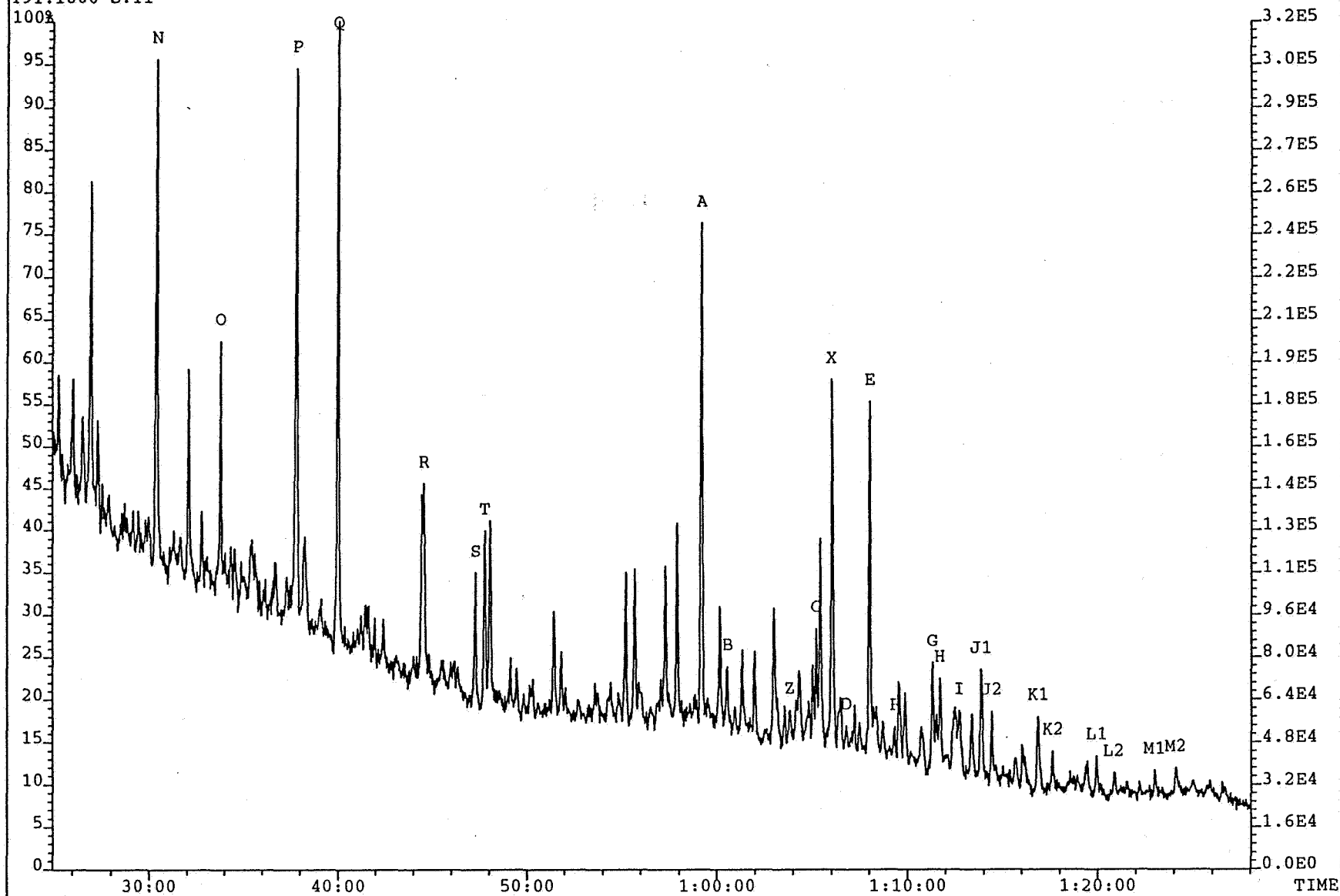


Schlumberger GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
191.1800 S:11

Exp:SAT1



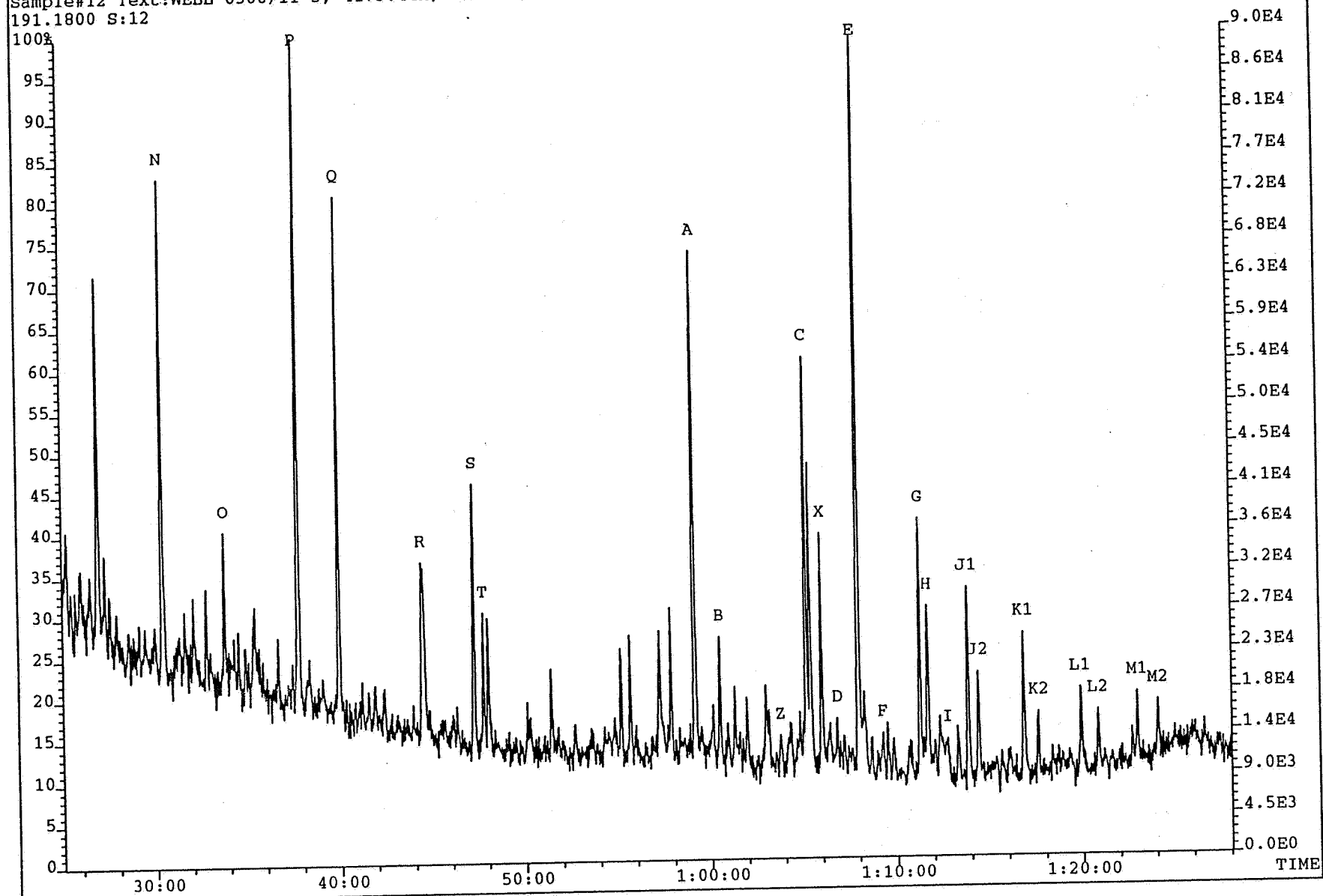
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
191.1800 S:12

Exp:SAT1



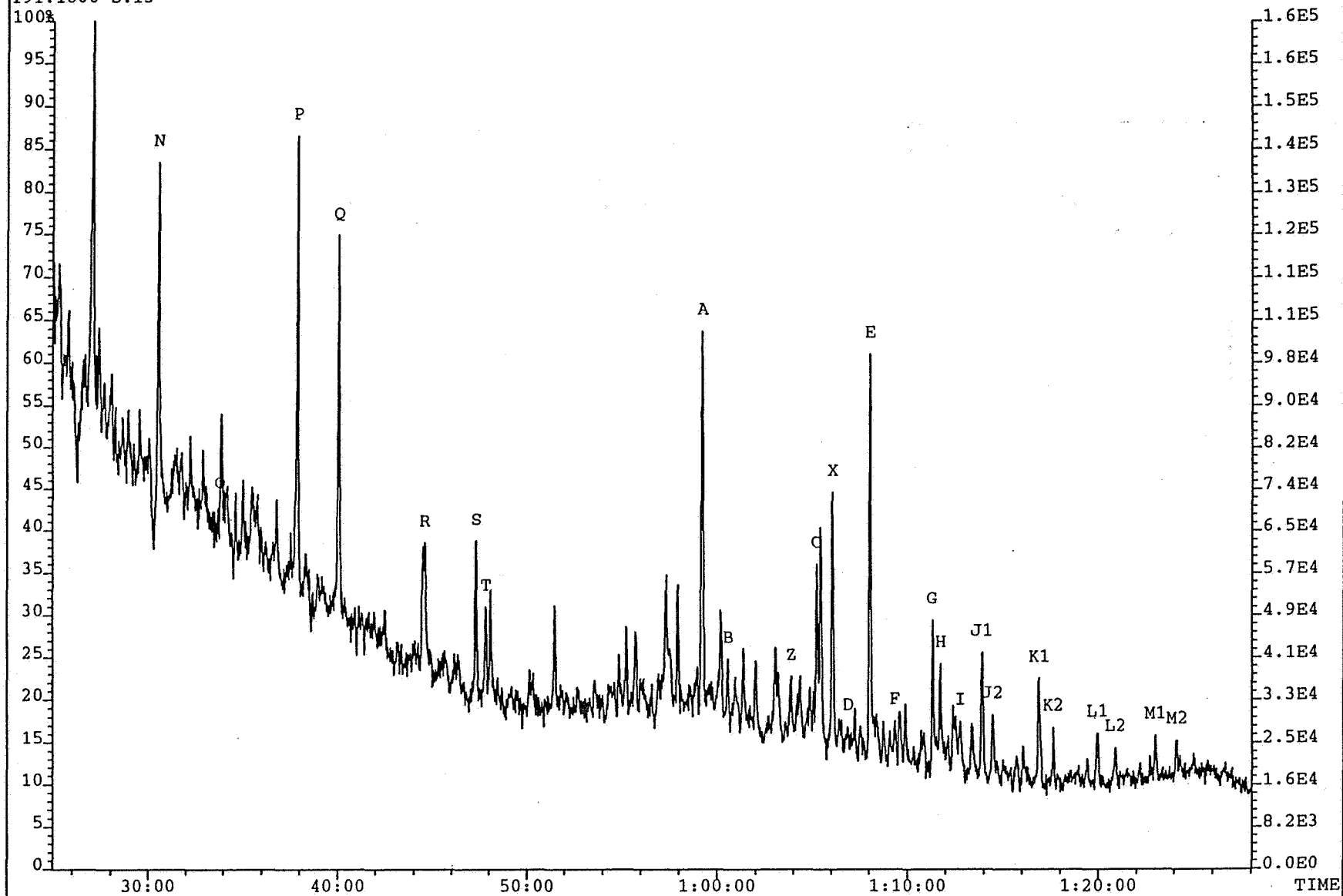
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
191.1800 S:13

Exp:SAT1



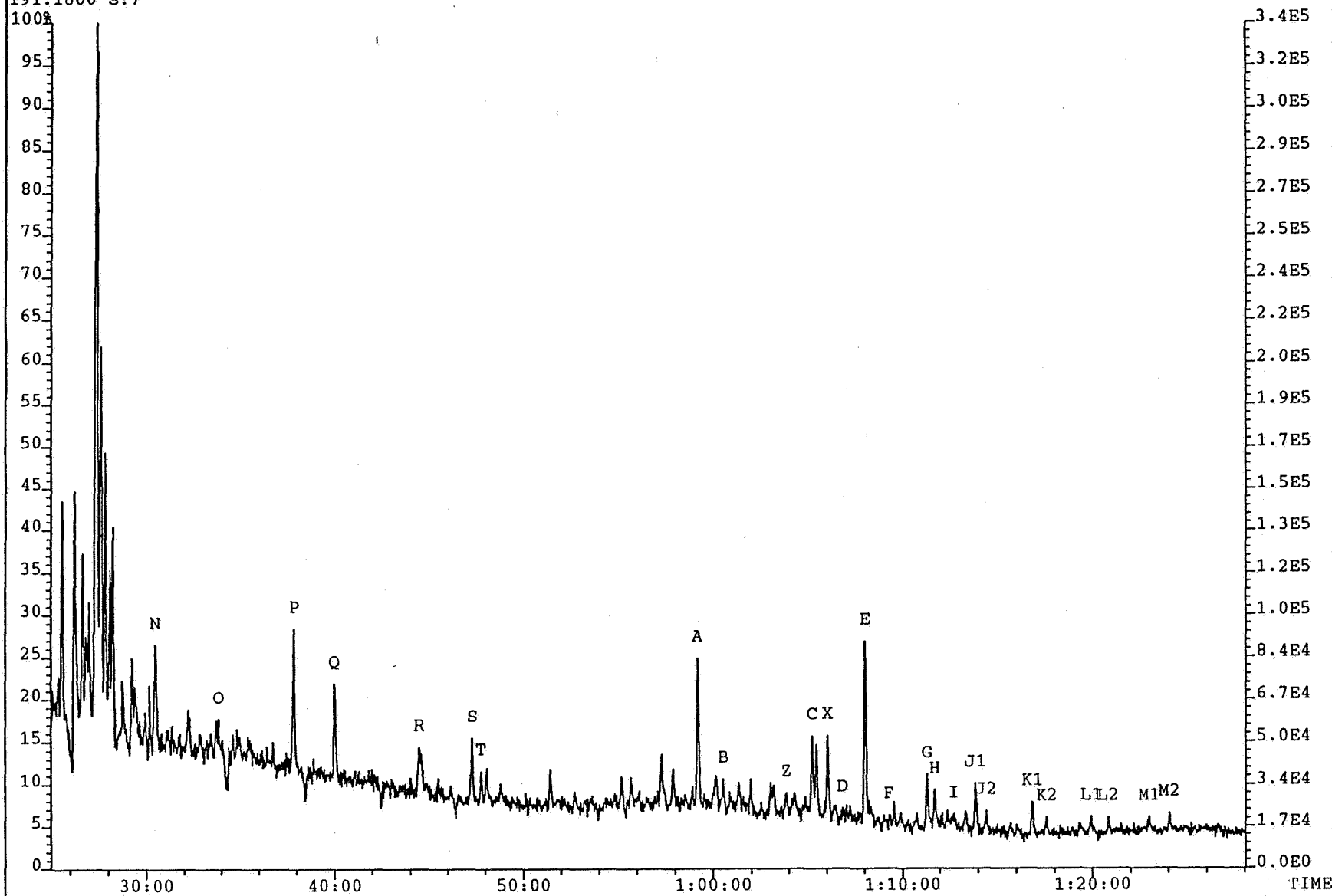
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
191.1800 S:7

Exp:SAT1

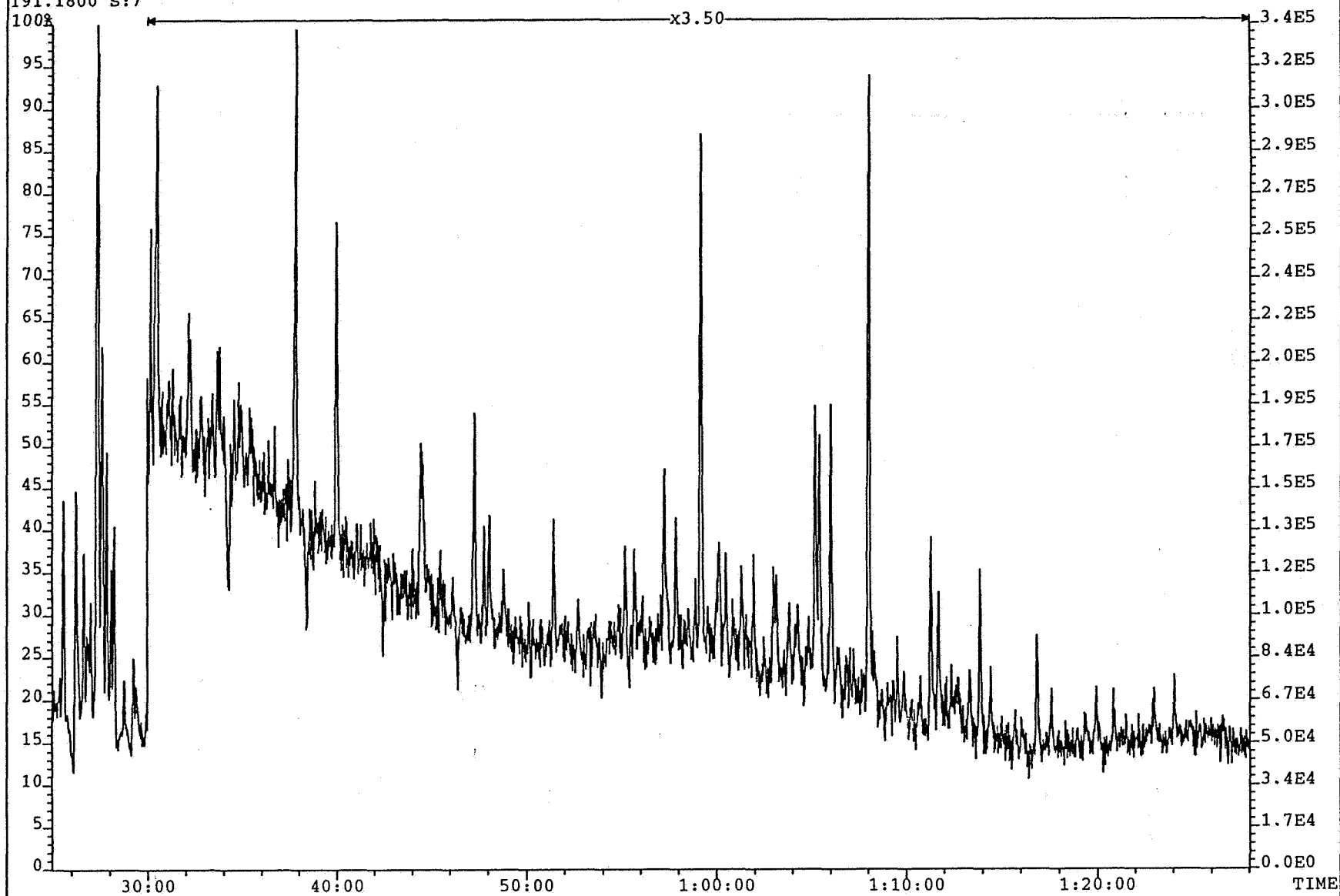


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
191.1800 S:7

Exp: SAT1



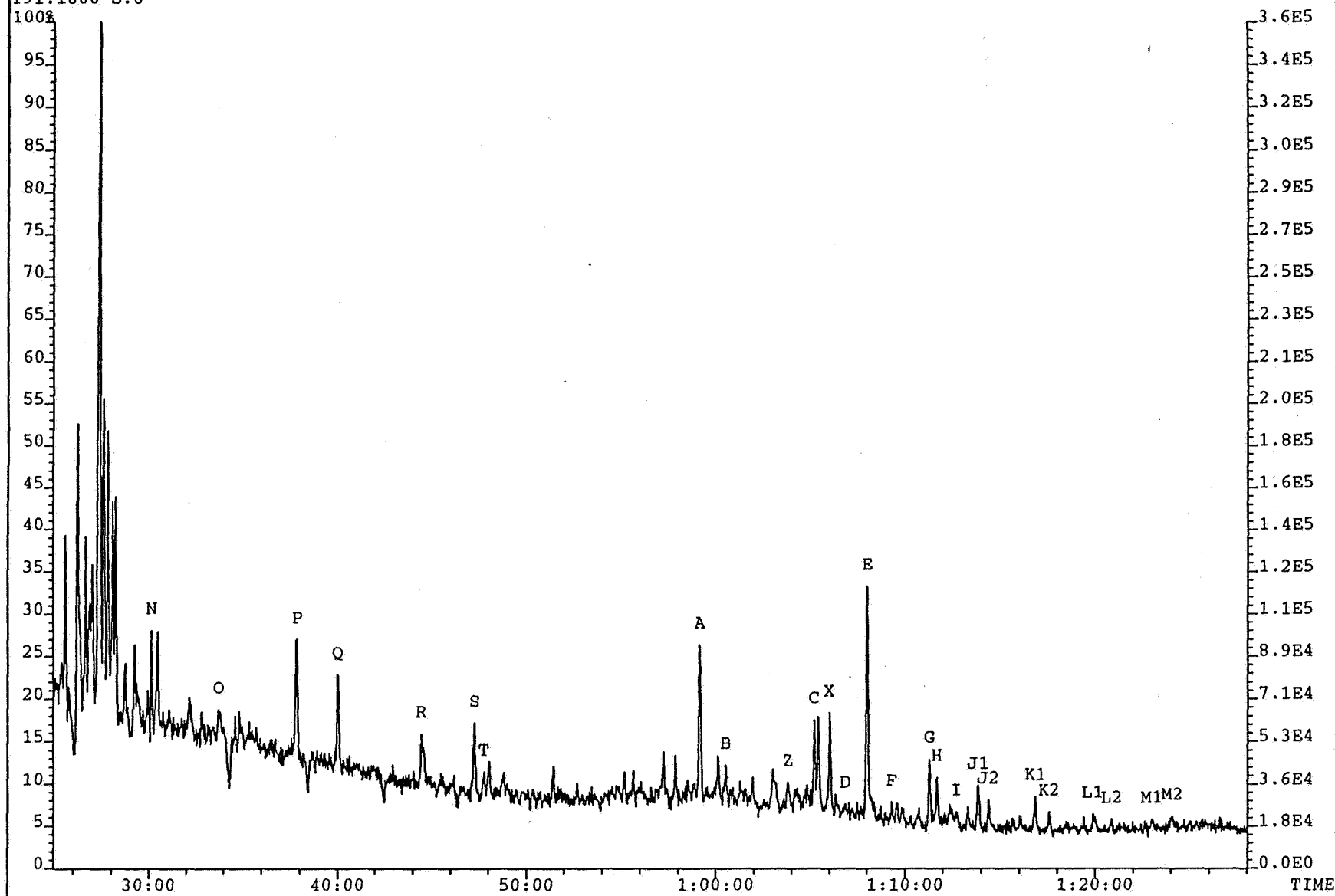
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
191.1800 S:8

Exp:SAT1



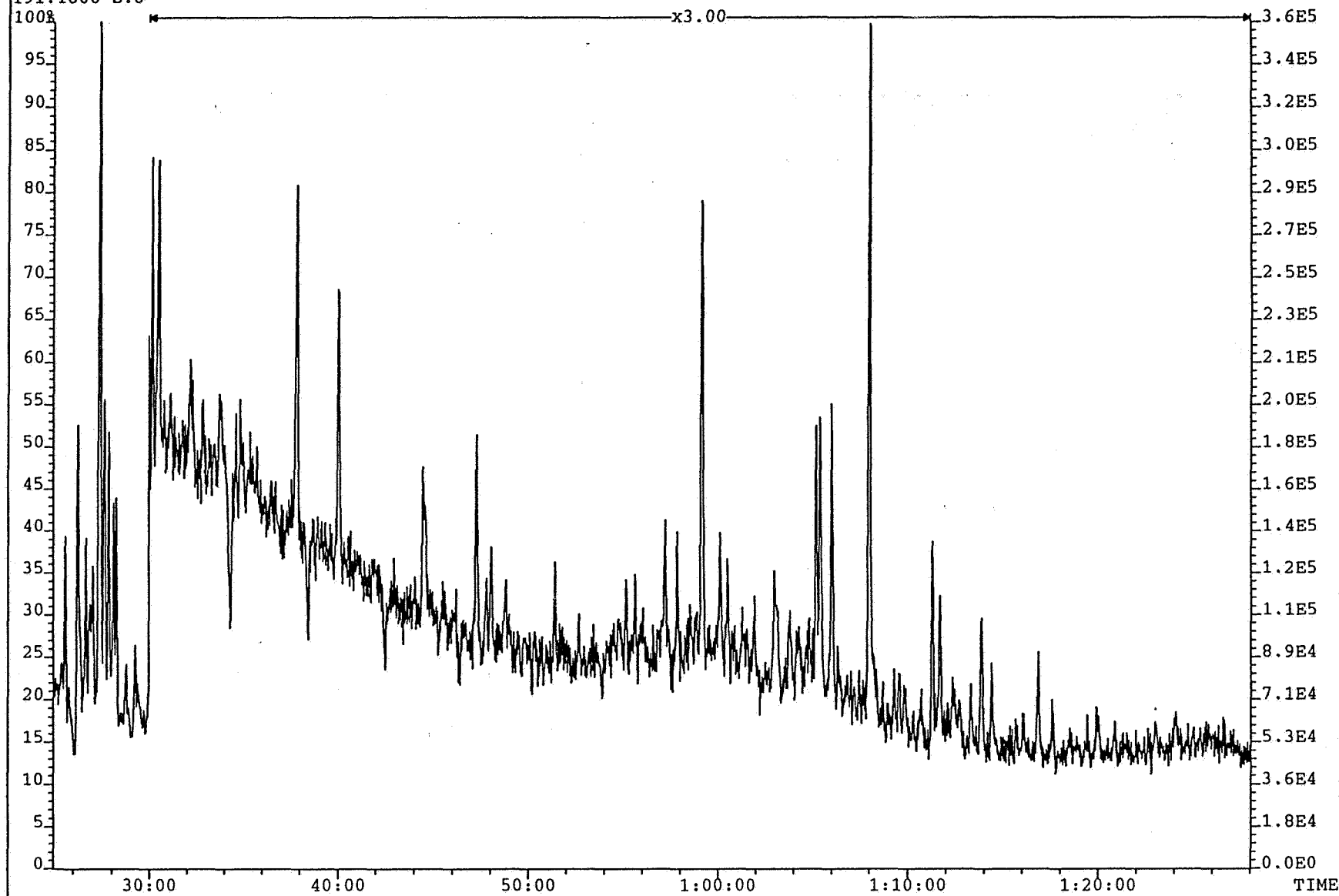
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
191.1800 S:8

Exp: SAT1

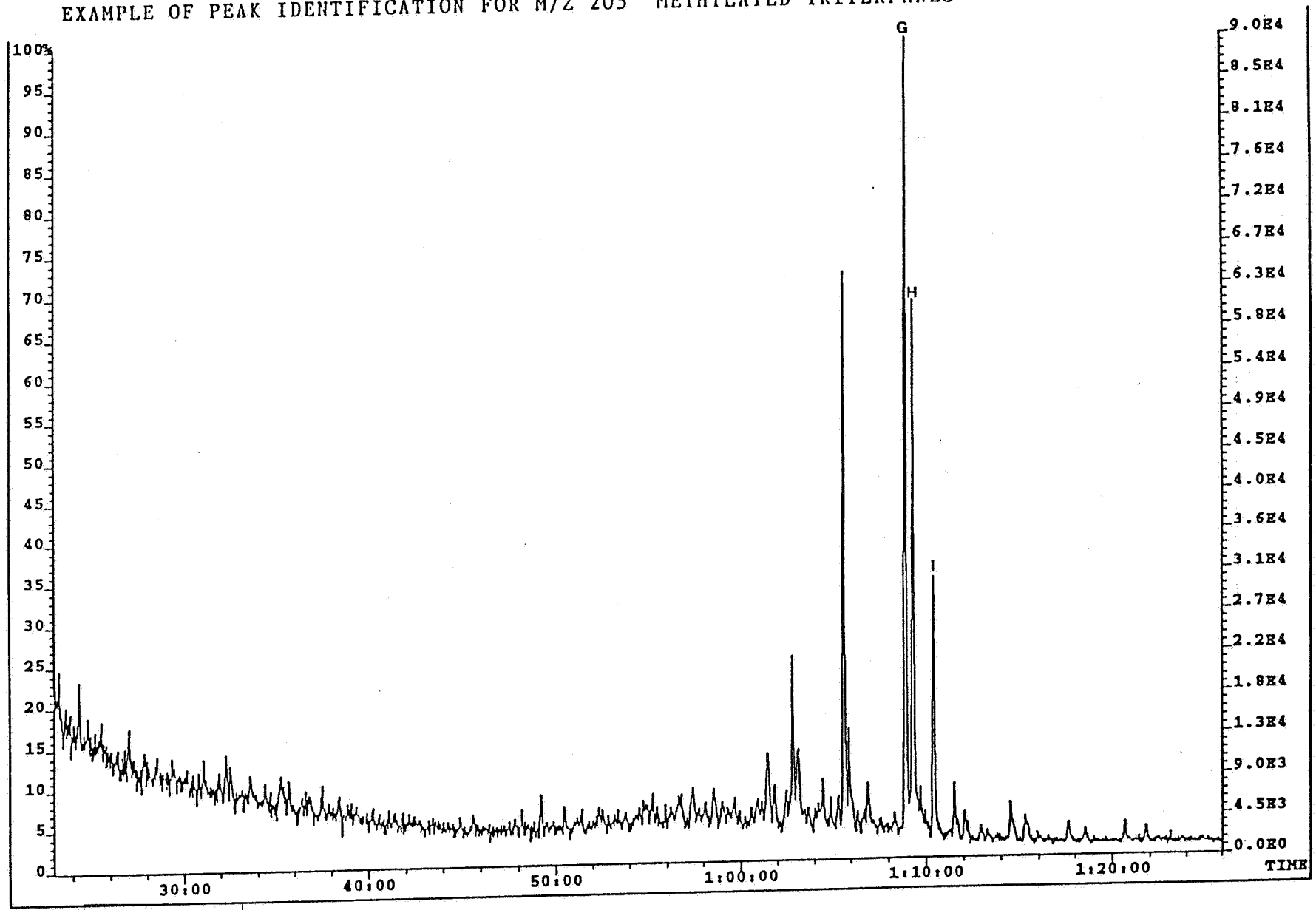


Schlumberger

GECO-PRAKLA

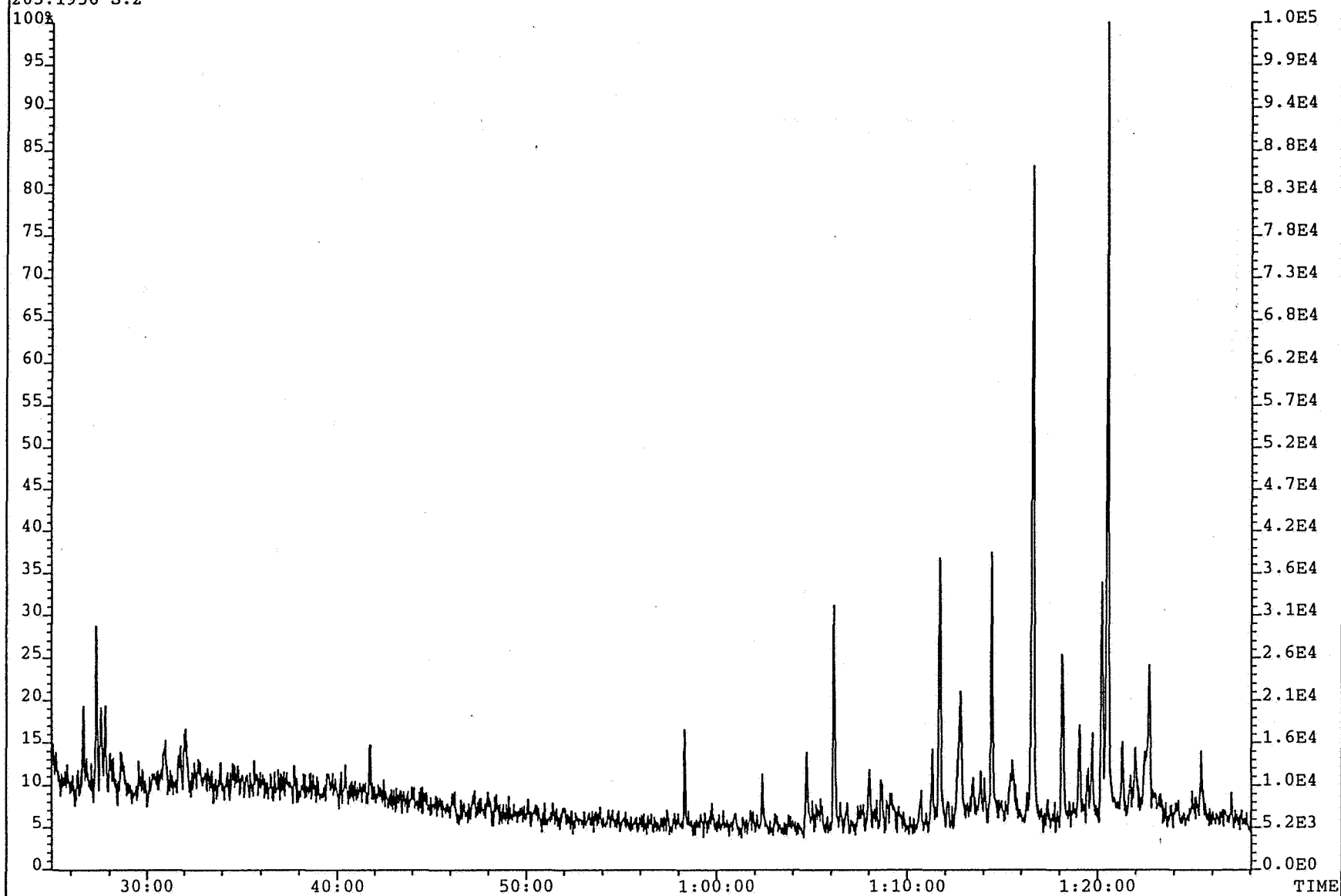
GEOLAB  NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 205 METHYLATED TRITERPANES



File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
205.1956 S:2

Exp:SAT1



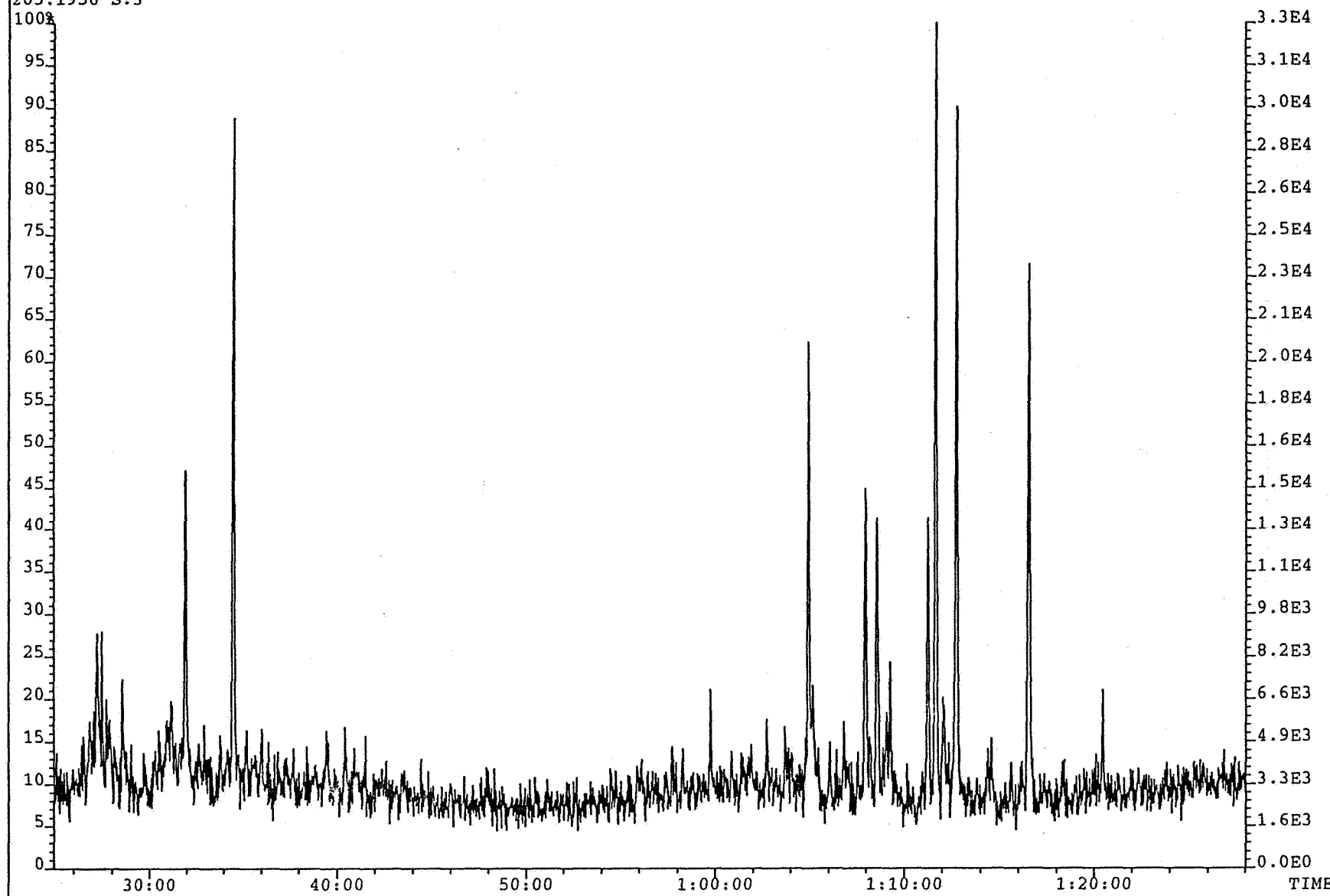
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
205.1956 S:3

Exp:SAT1



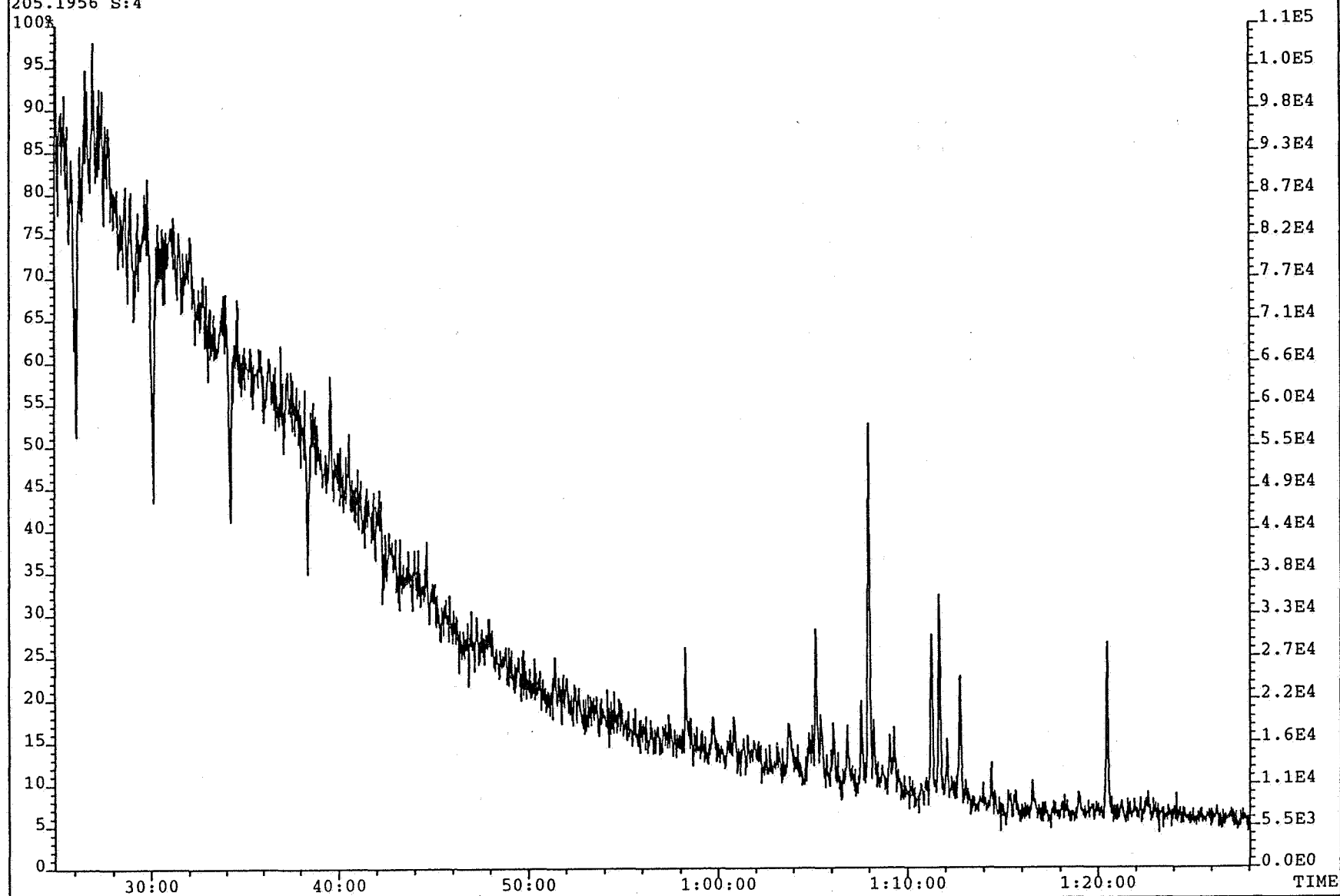
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
205.1956 S:4

Exp:SAT1



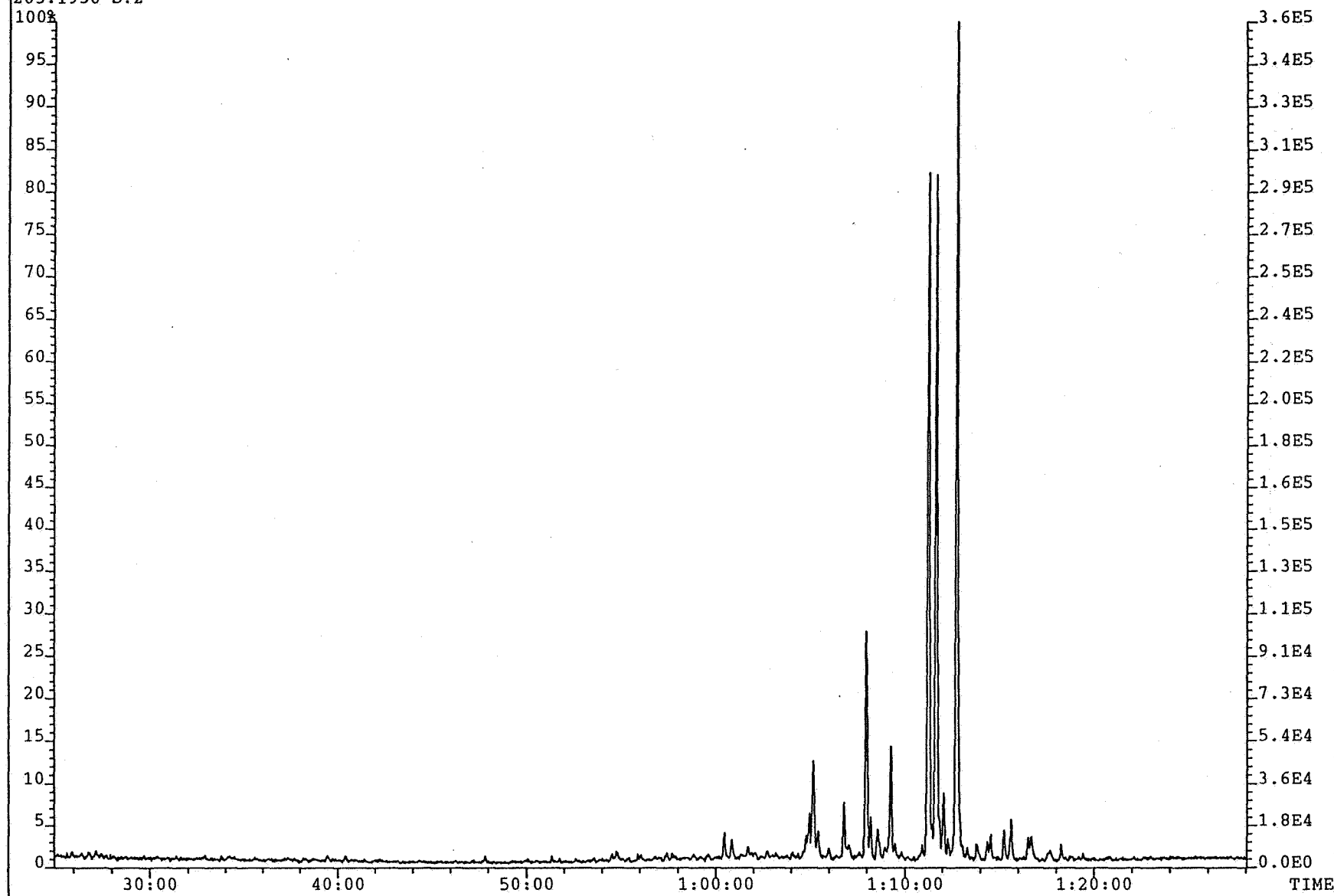
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
205.1956 S:2

Exp:SAT1



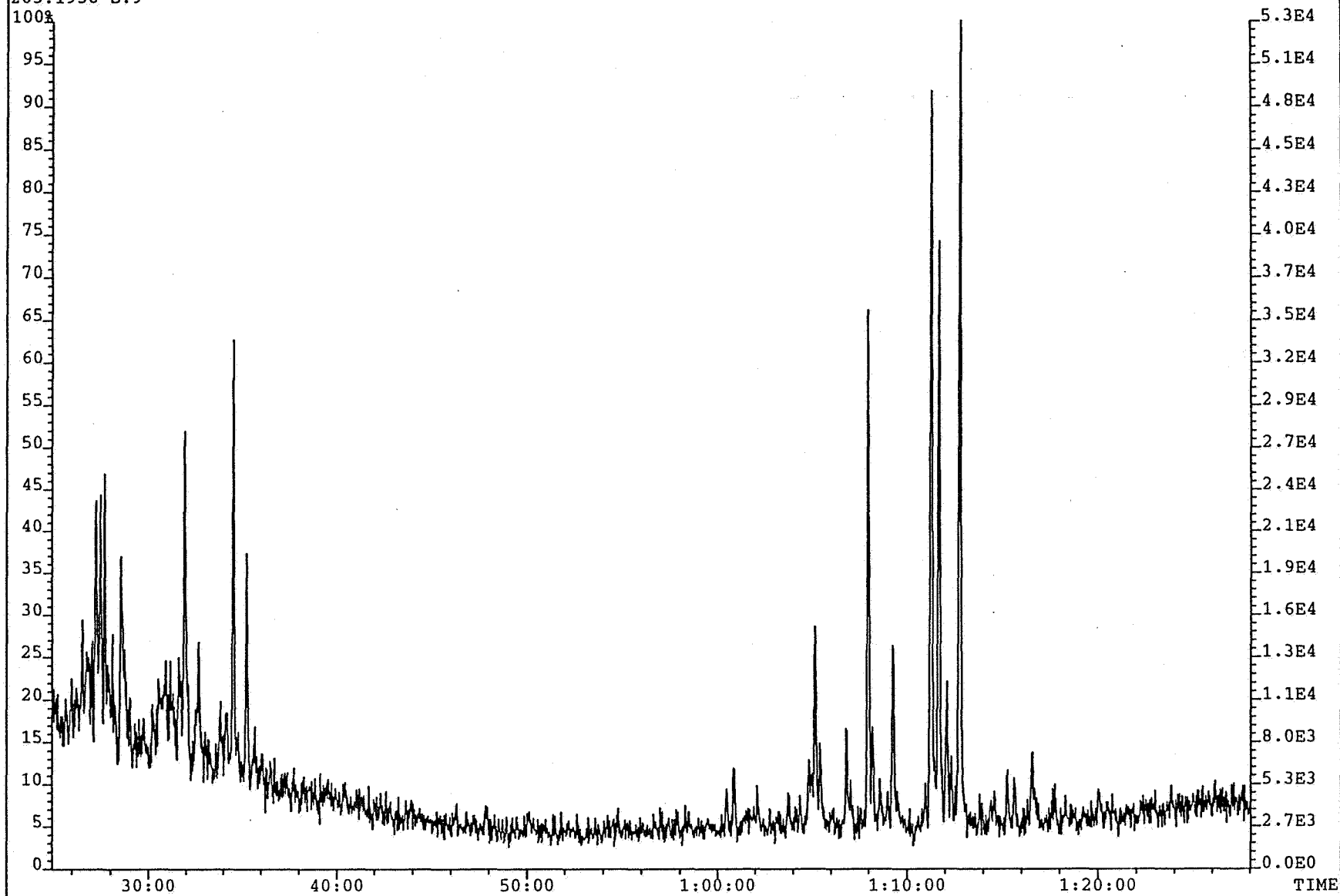
Schlumberger

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GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
205.1956 S:9

Exp:SAT1



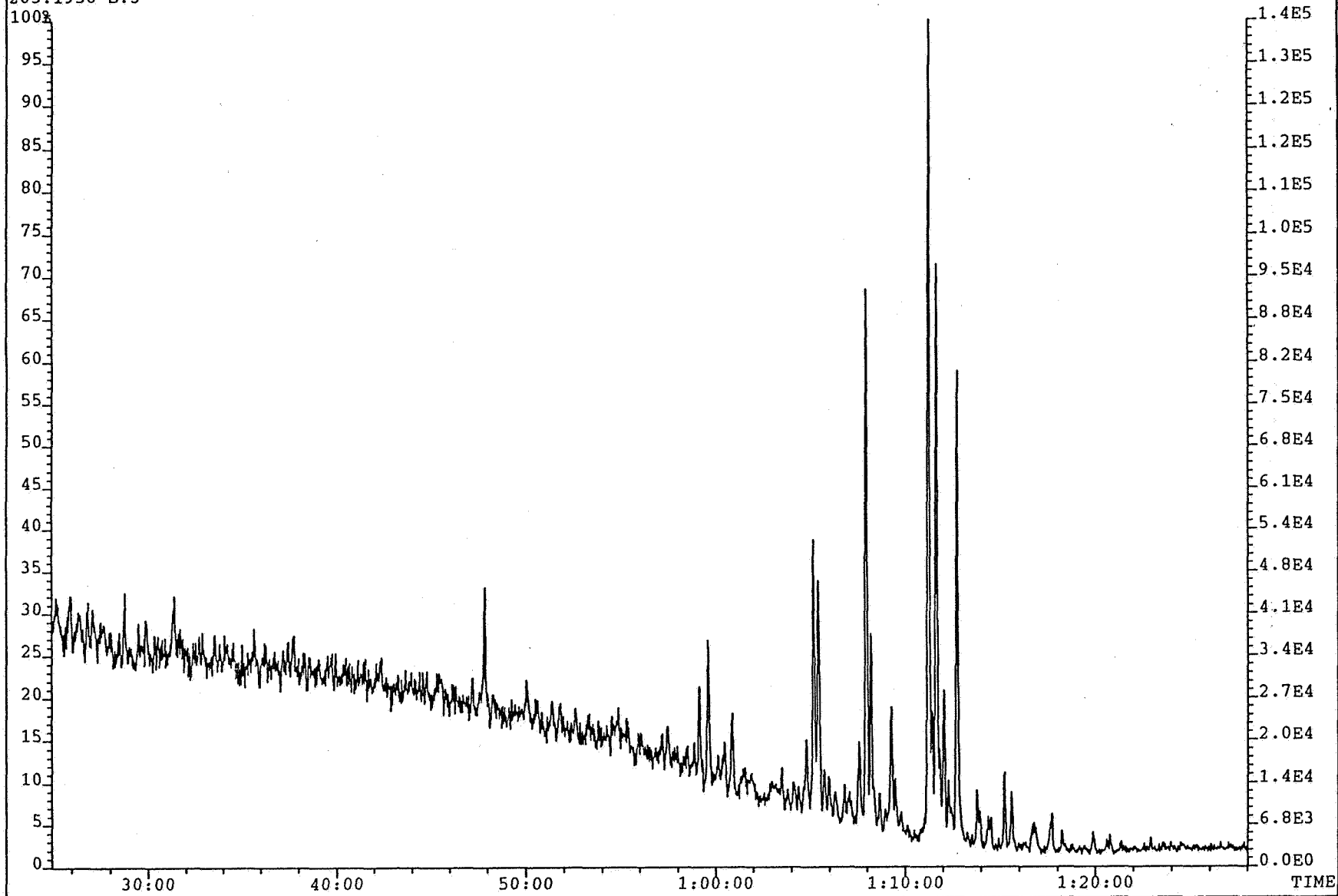
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
205.1956 S:3

Exp:SAT1



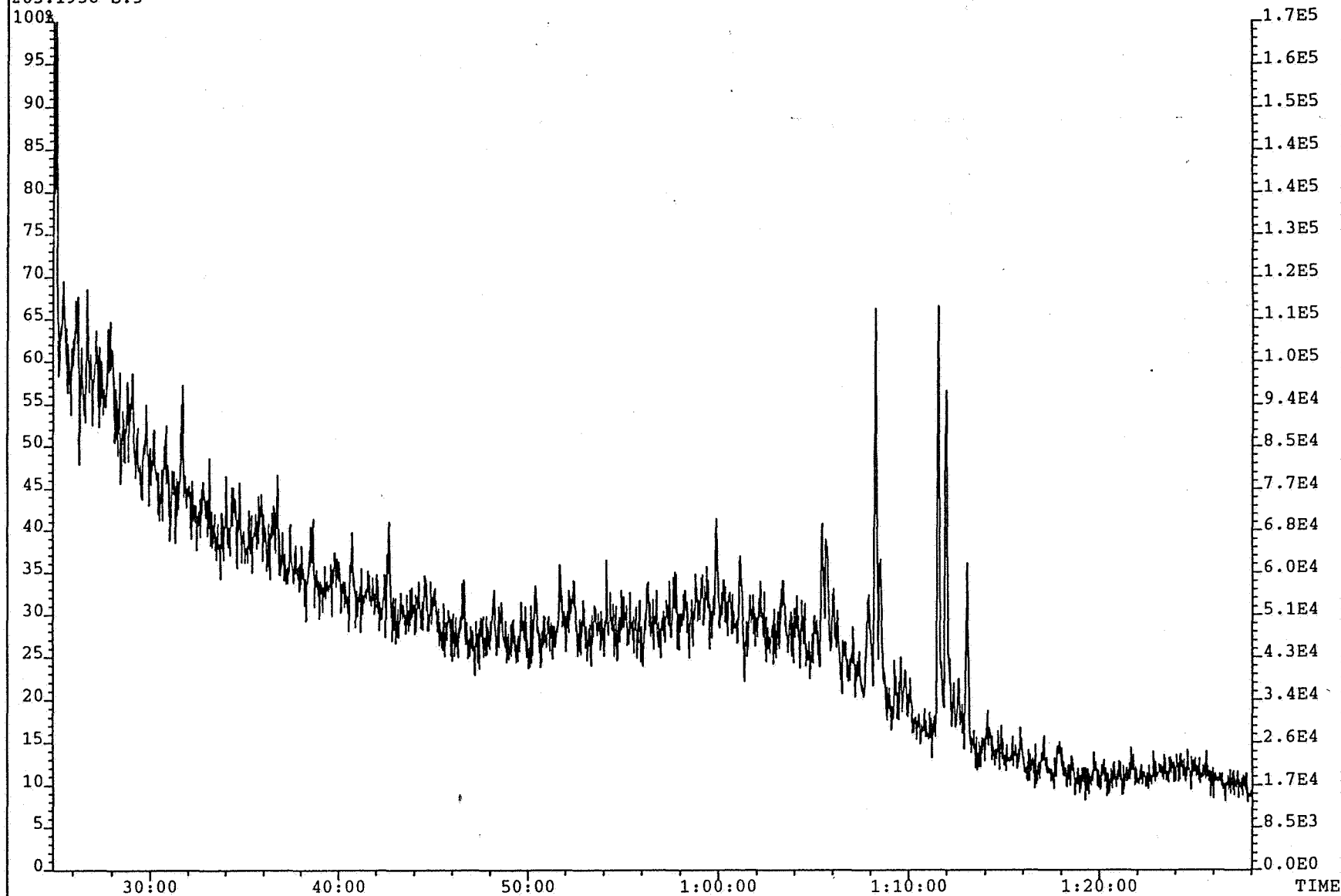
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
205.1956 S:5

Exp:SAT1



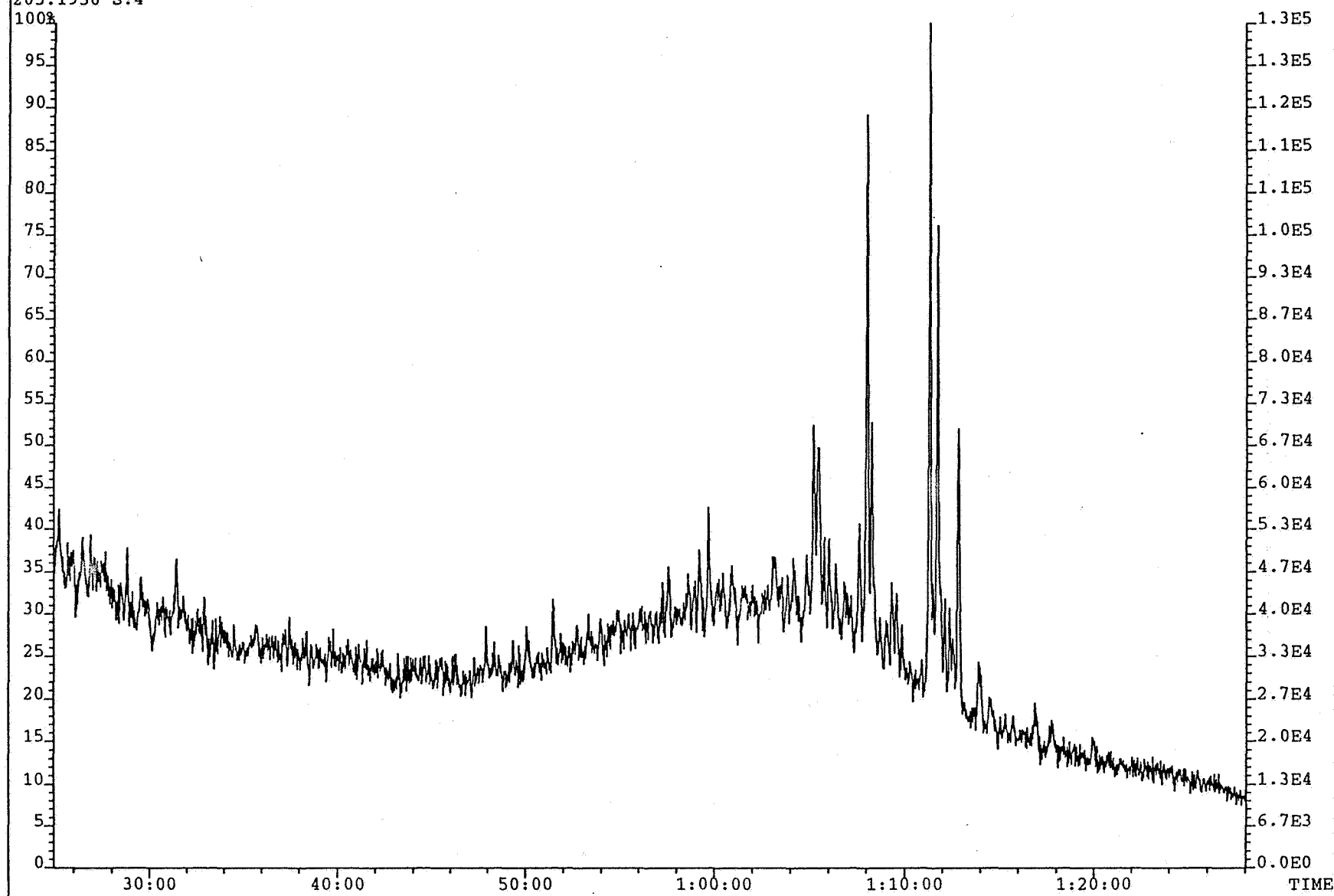
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
205.1956 S:4

Exp:SAT1



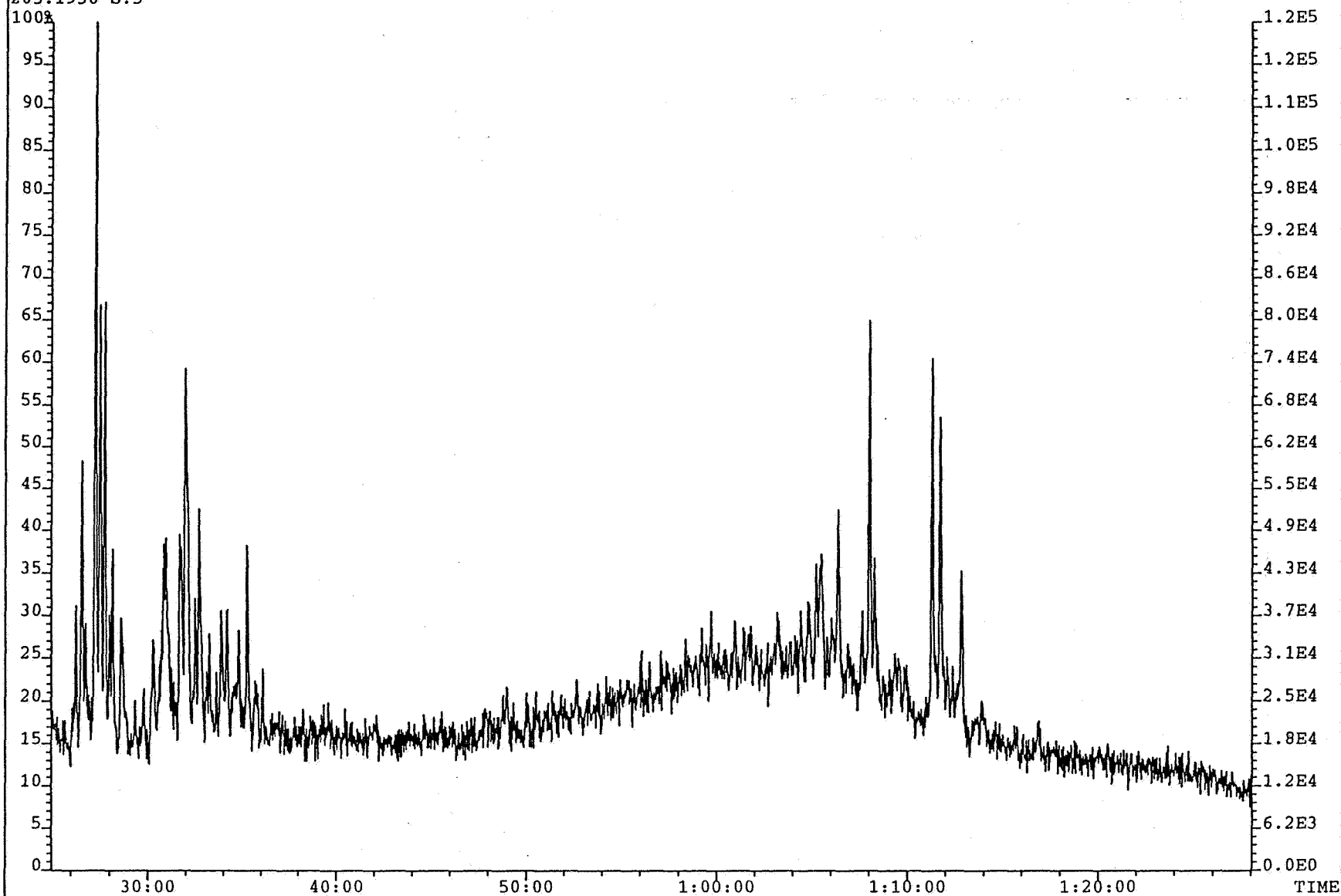
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
205.1956 S:5

Exp:SAT1



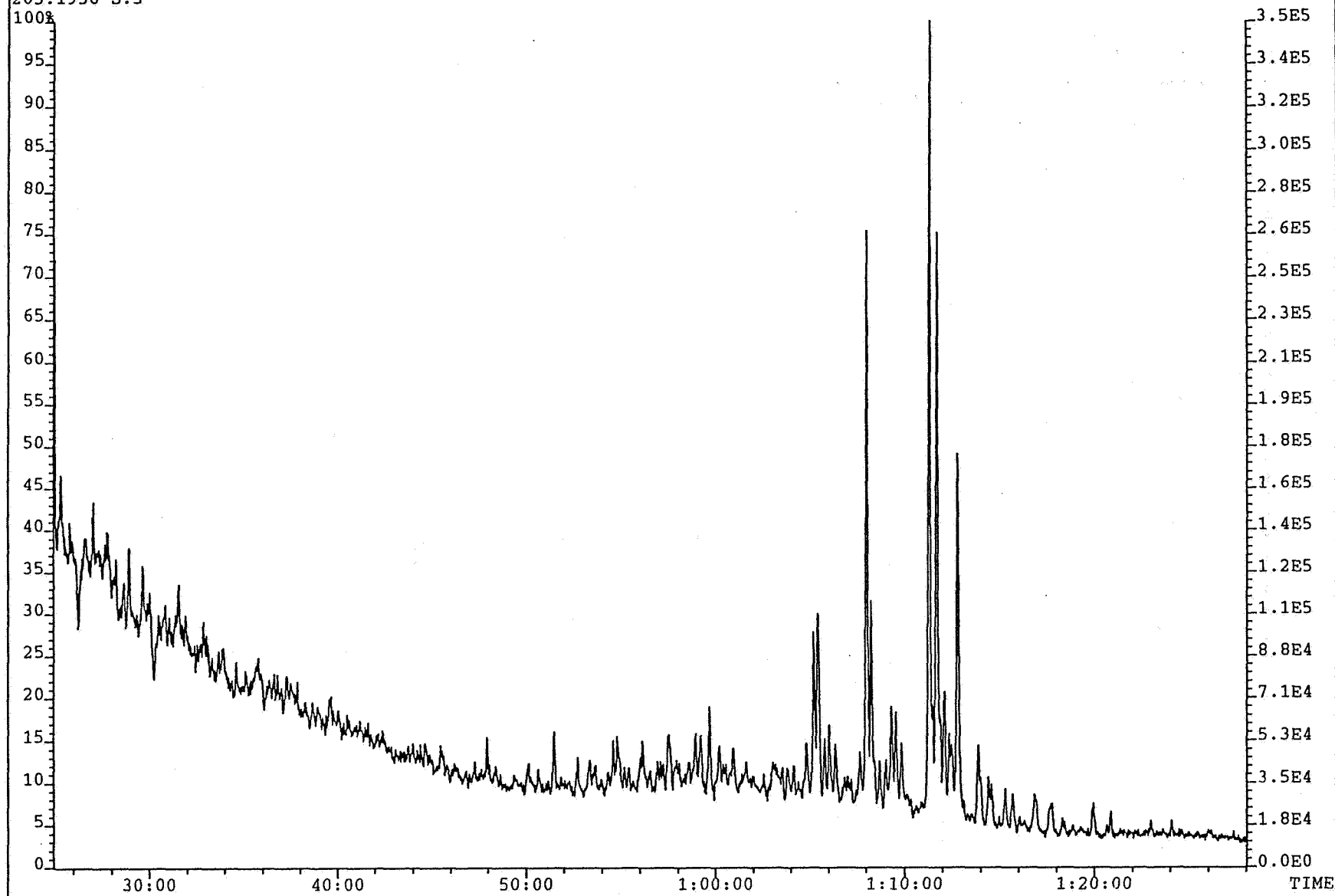
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
205.1956 S:5

Exp:SAT1



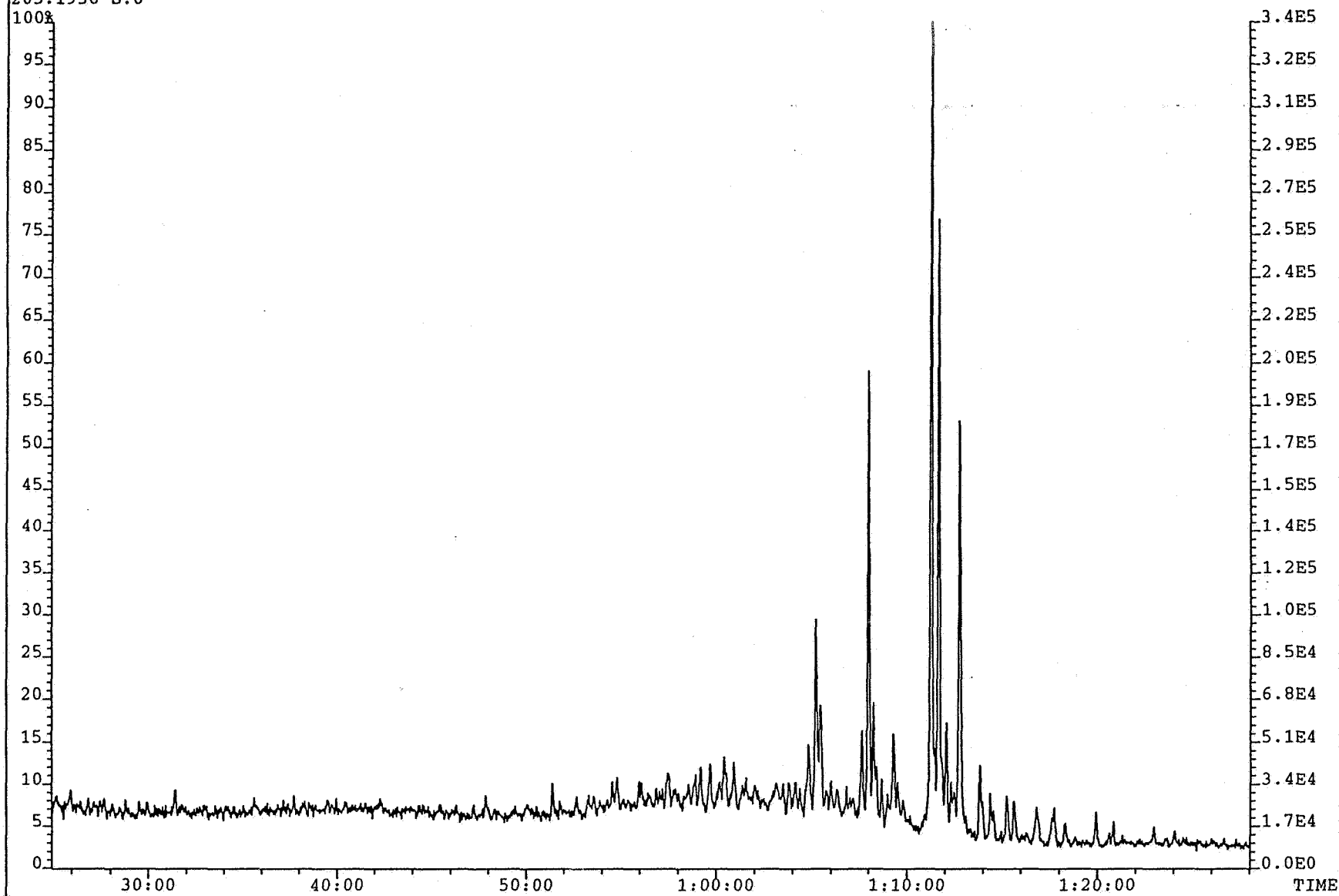
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
205.1956 S:6

Exp:SAT1



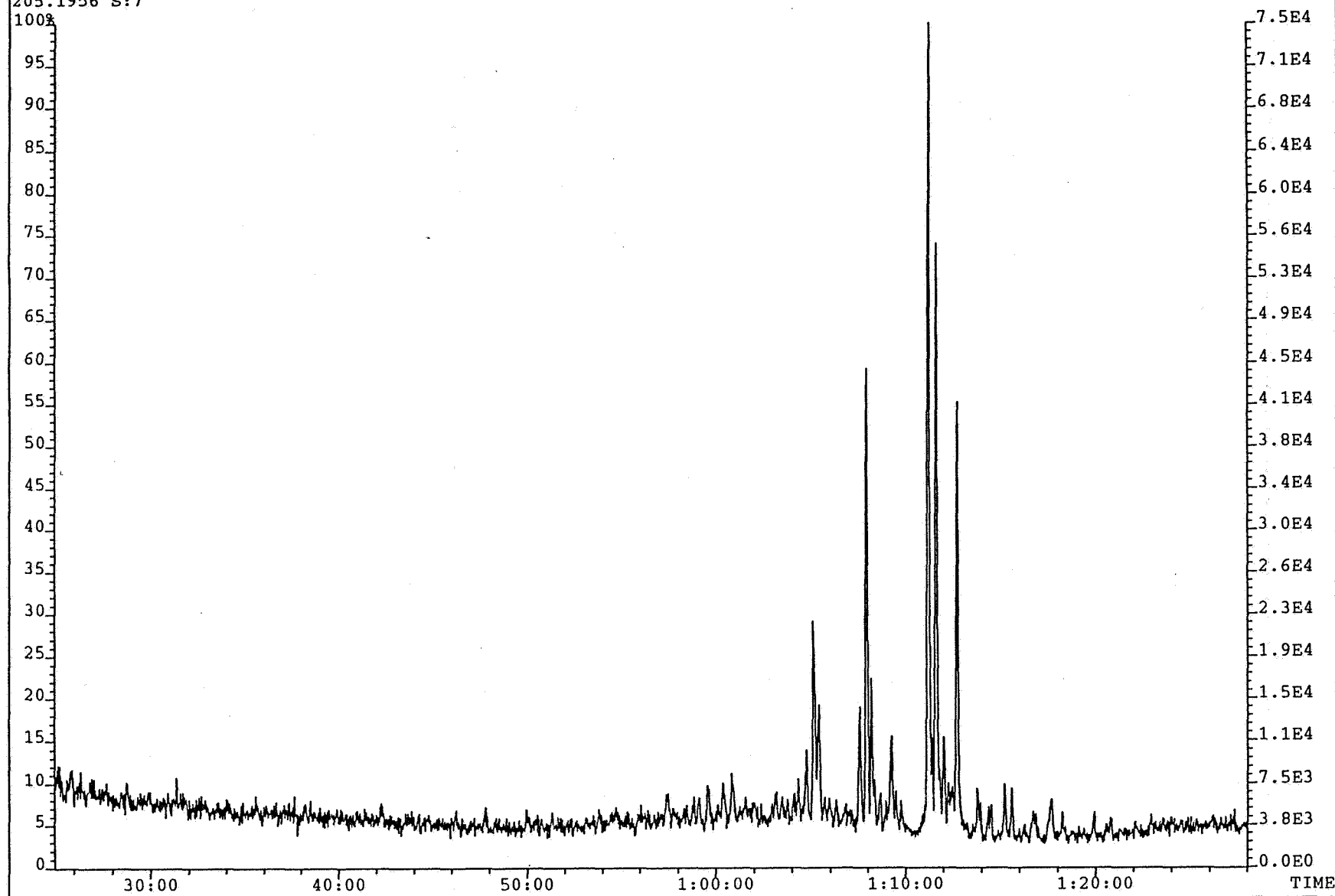
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
205.1956 S:7

Exp:SAT1



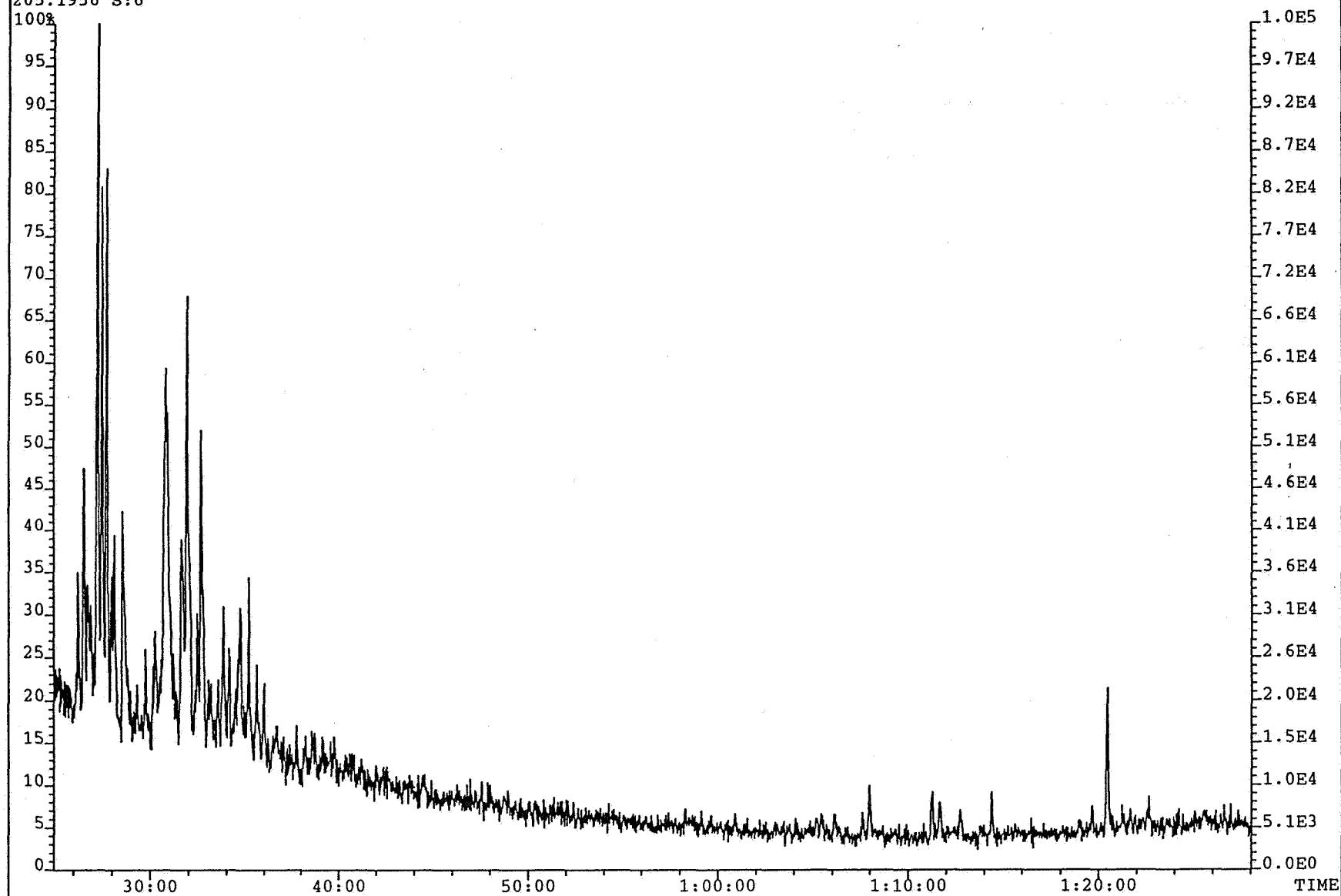
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
205.1956 S:6

Exp: SAT1



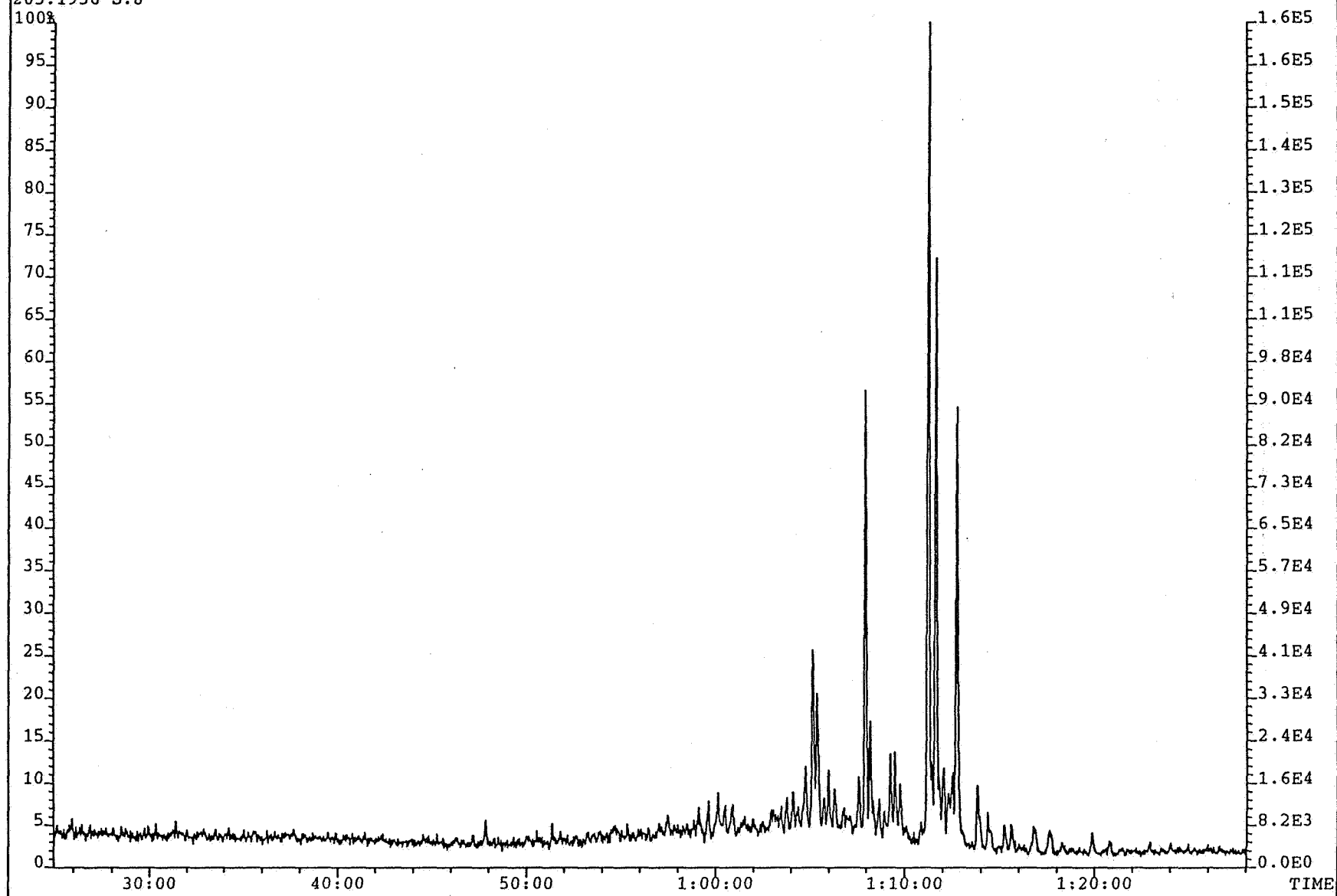
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
205.1956 S:8

Exp:SAT1



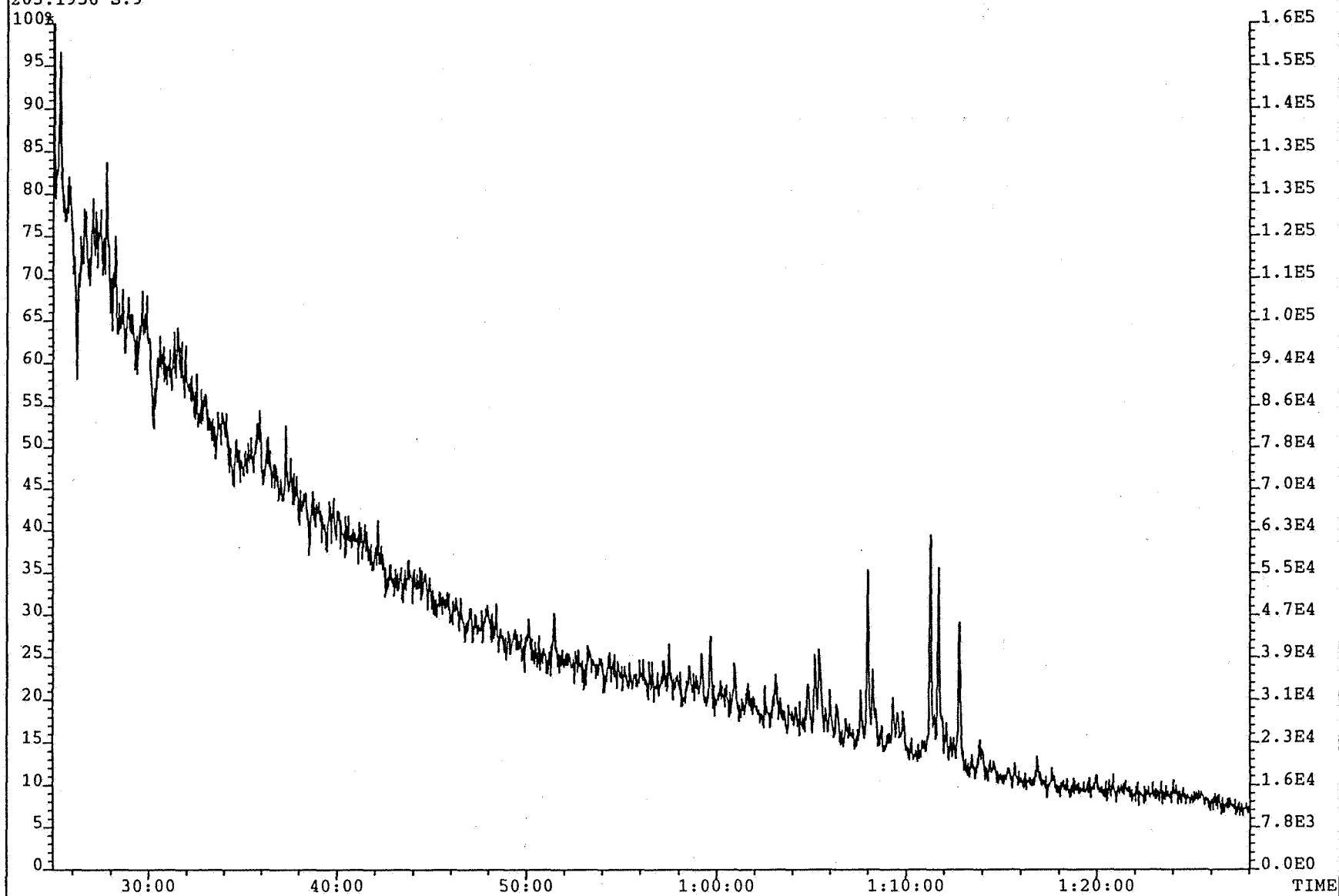
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
205.1956 S:9

Exp:SAT1



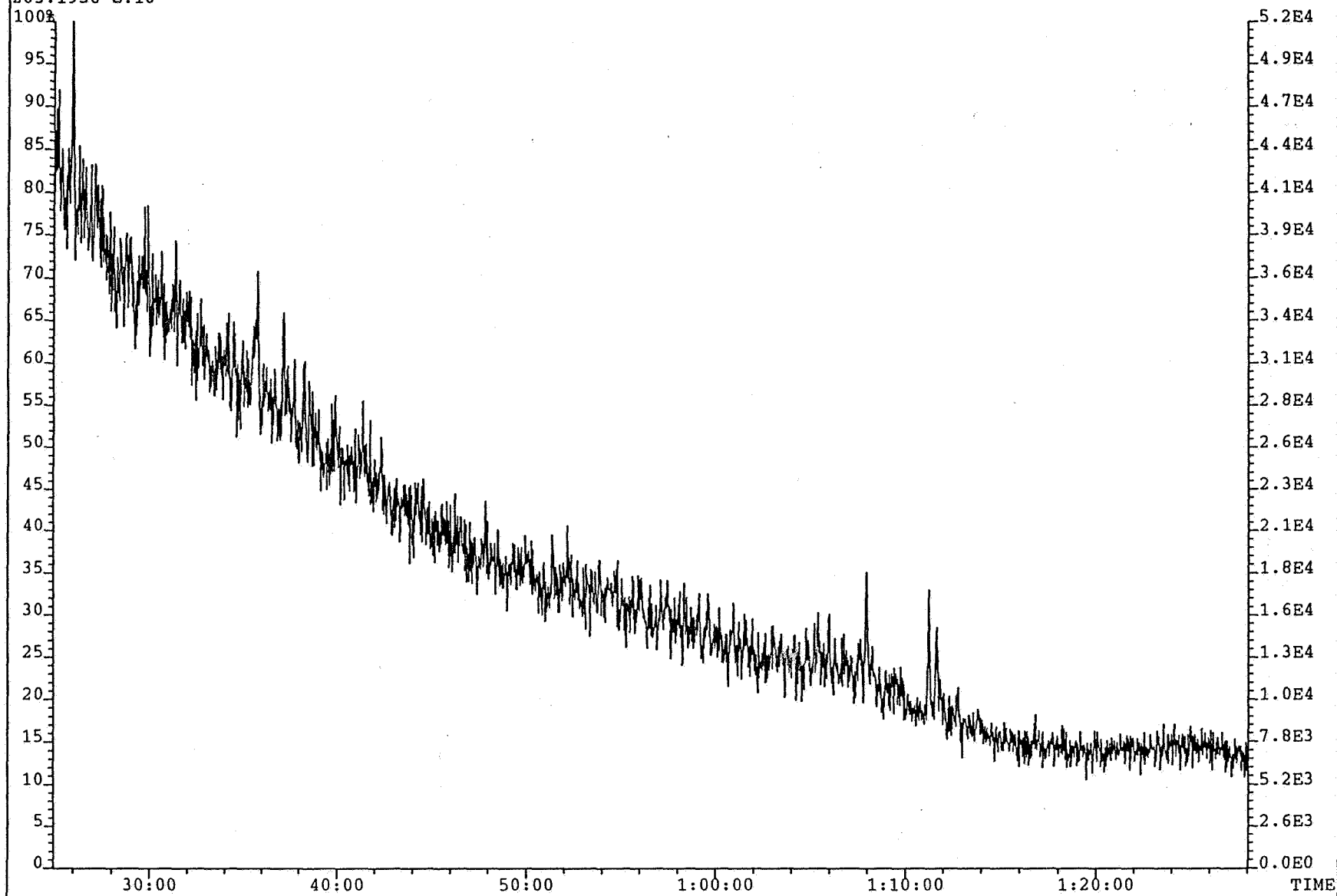
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
205.1956 S:10

Exp:SAT1



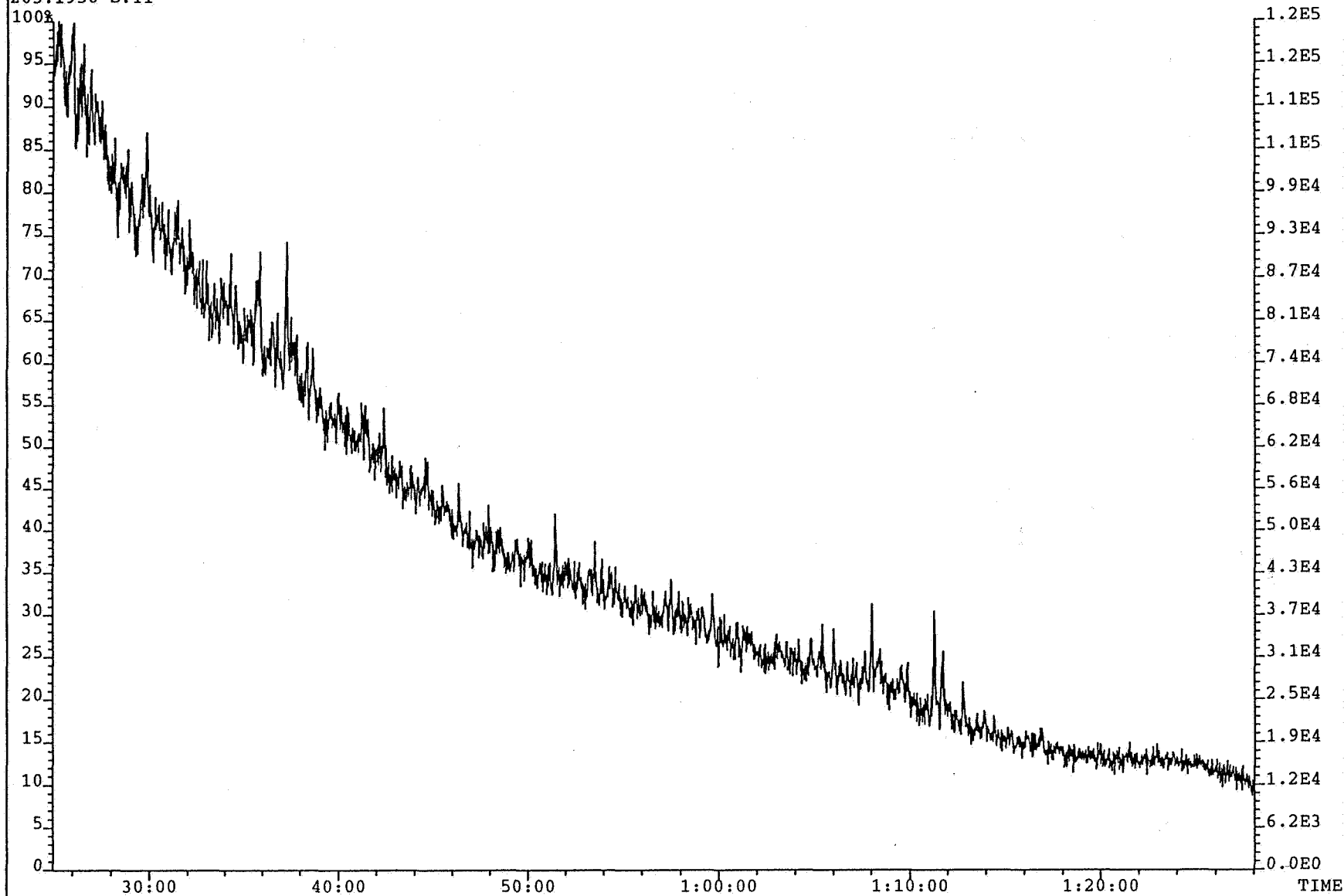
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
205.1956 S:11

Exp: SAT1



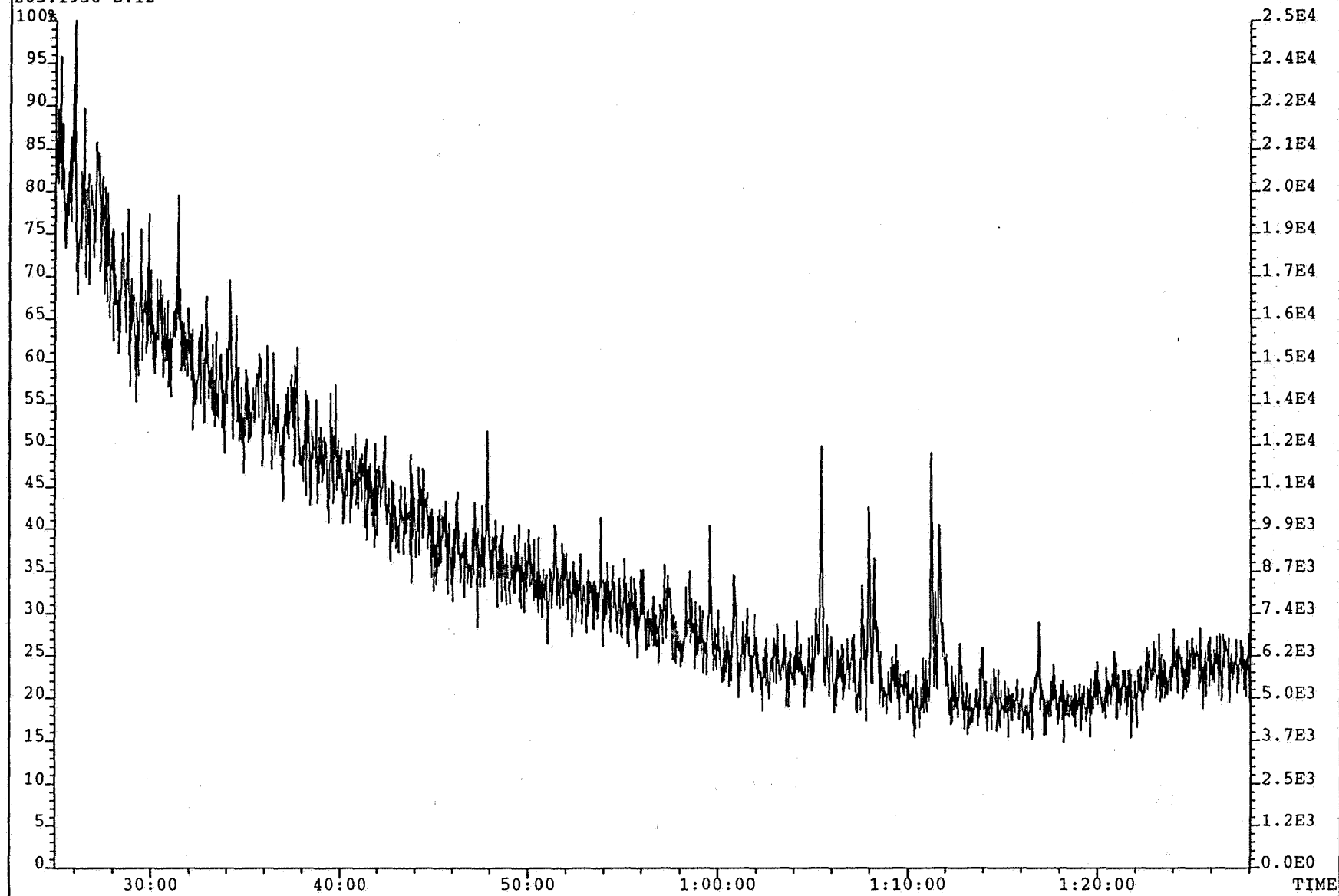
Schlumberger

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GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
205.1956 S:12

Exp:SAT1



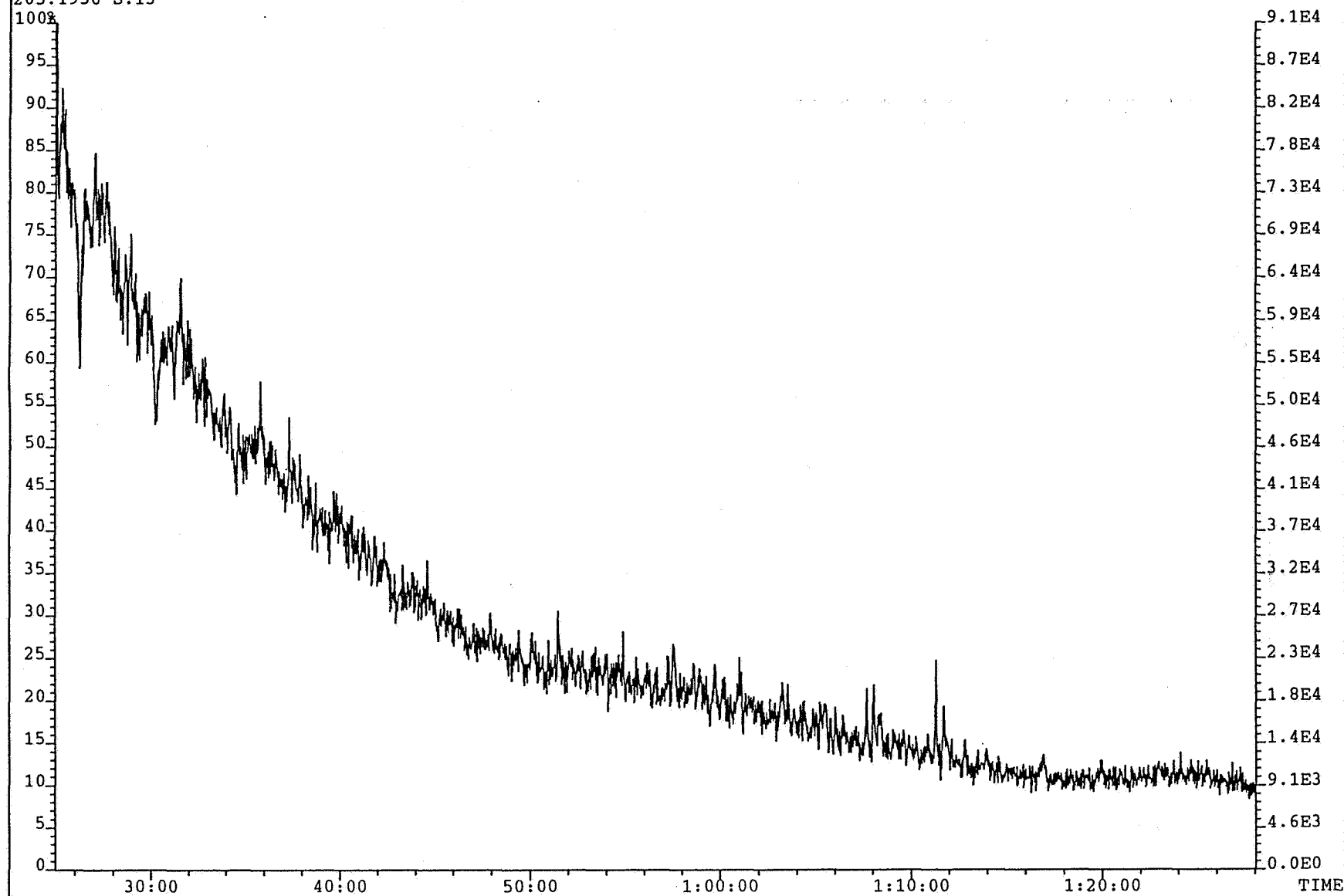
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
205.1956 S:13

Exp: SAT1



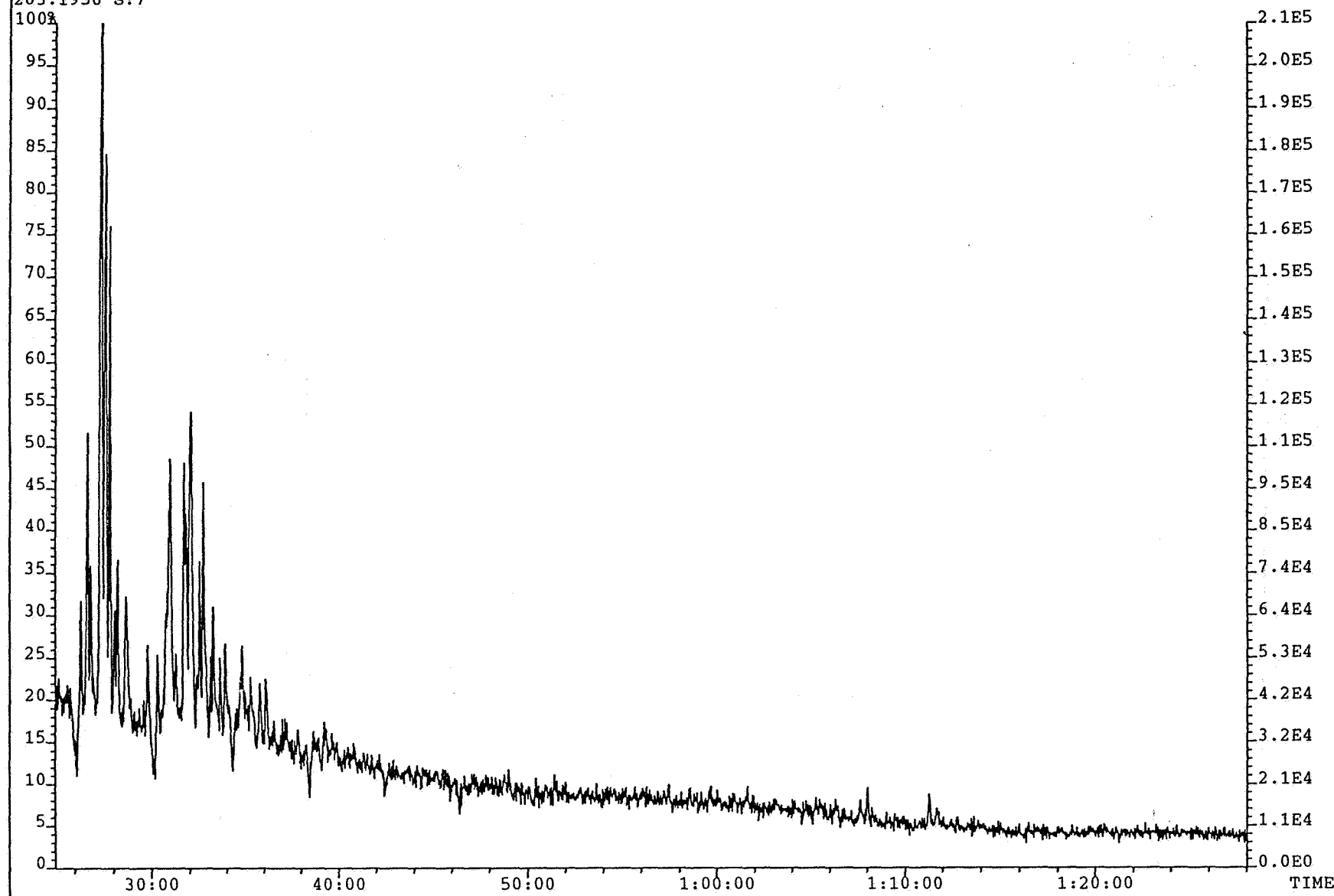
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
205.1956 S:7

Exp:SAT1



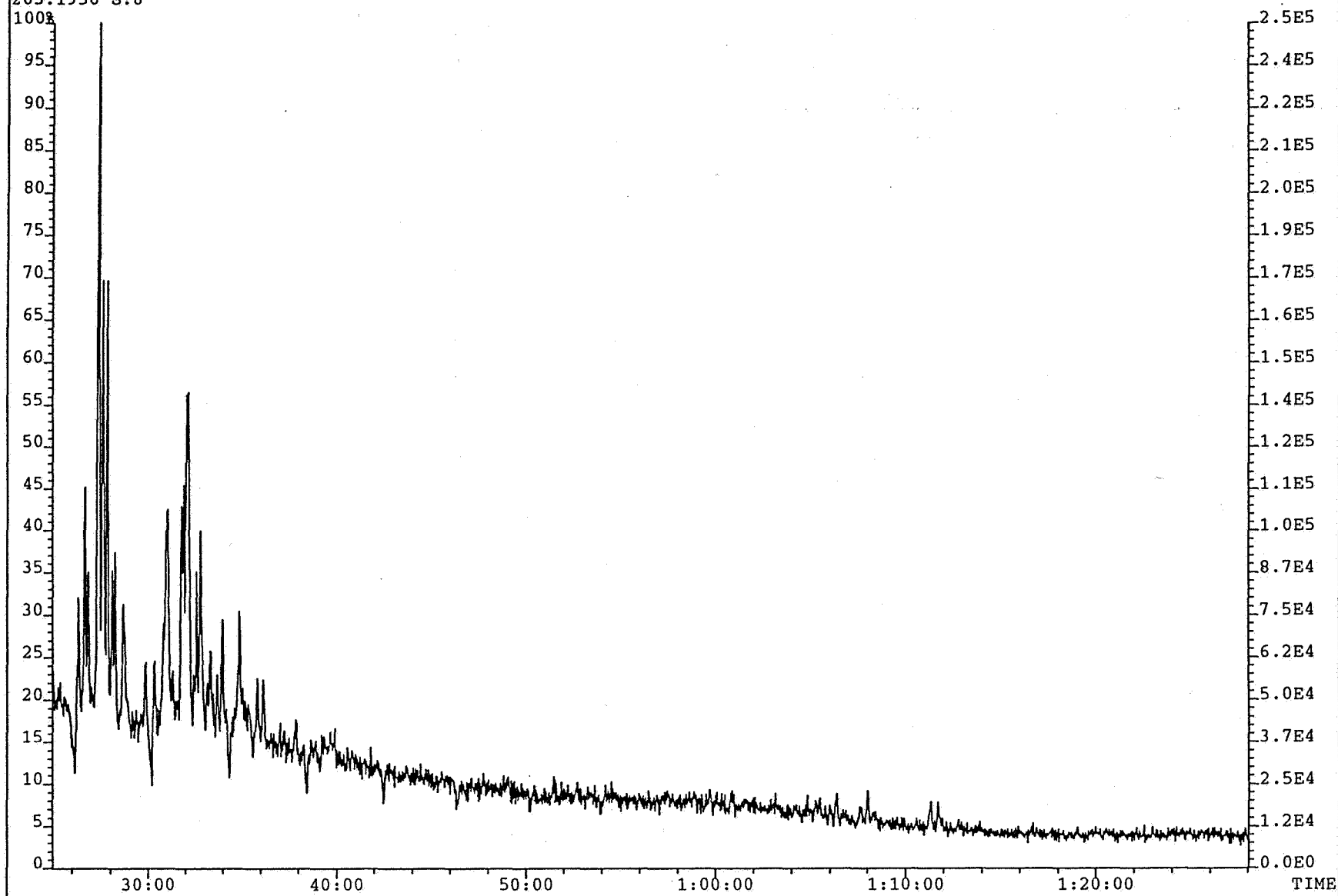
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
205.1956 S:8

Exp: SAT1

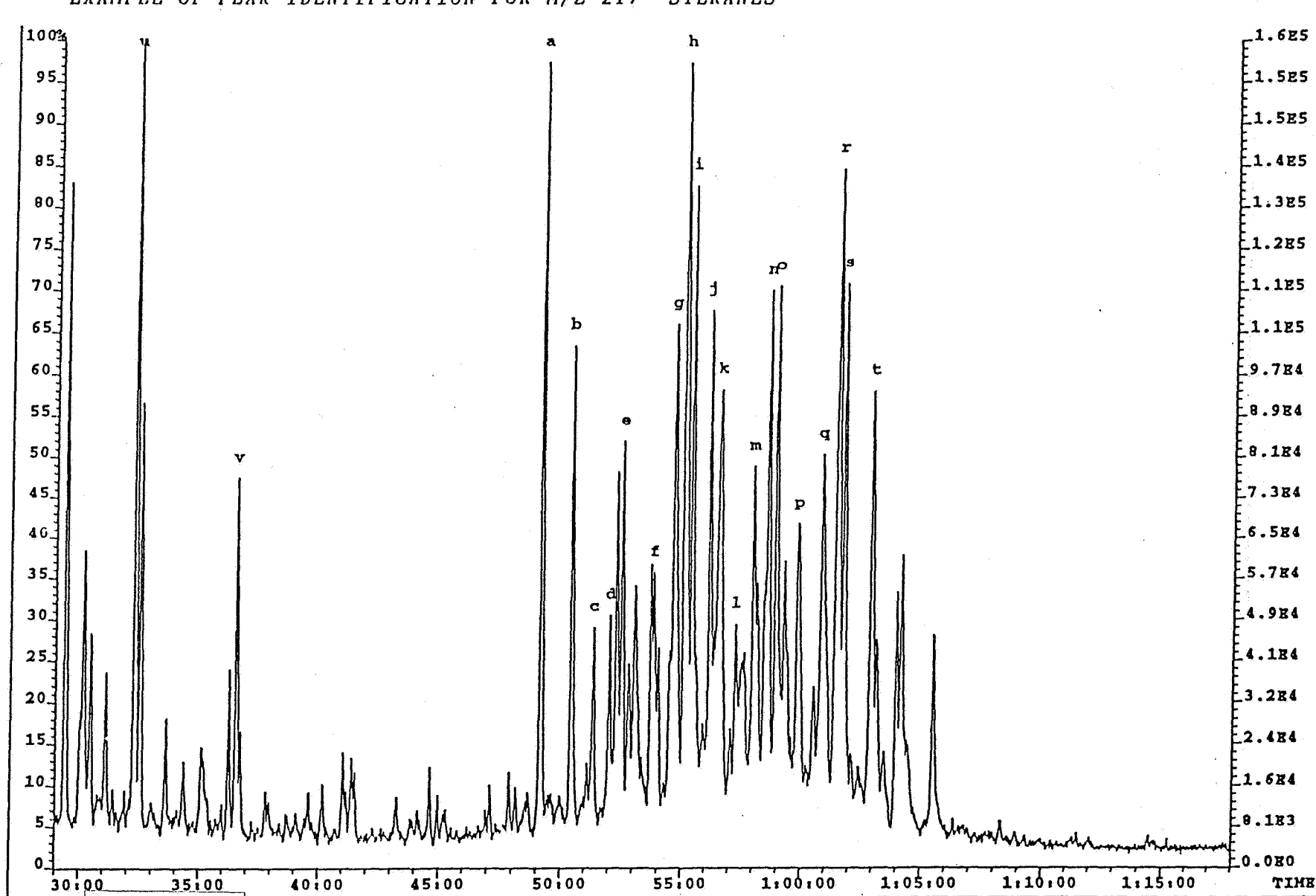


Schlumberger

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EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 217 STERANES

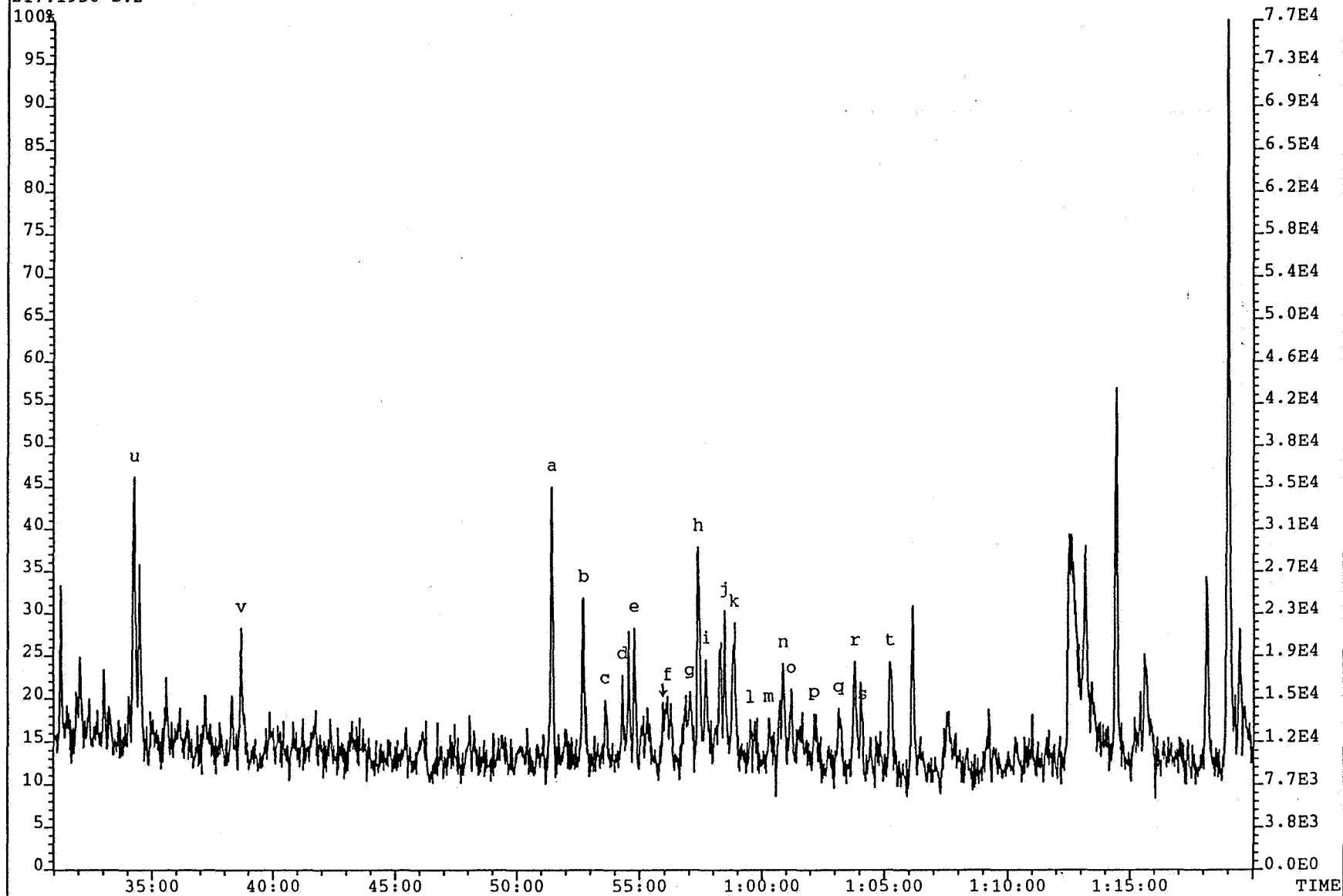


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
217.1956 S:2

Exp:SAT1



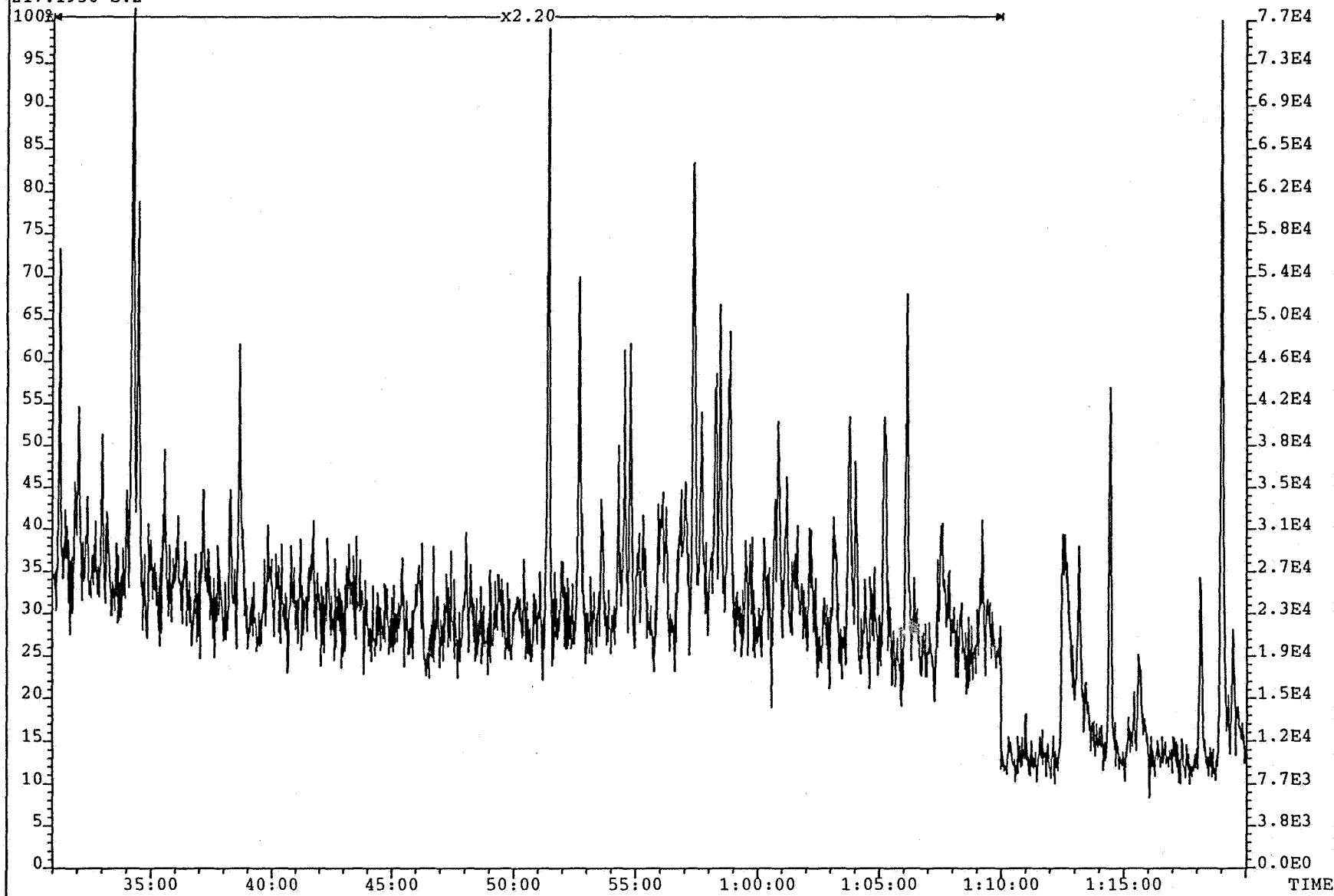
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
217.1956 S:2

Exp:SAT1

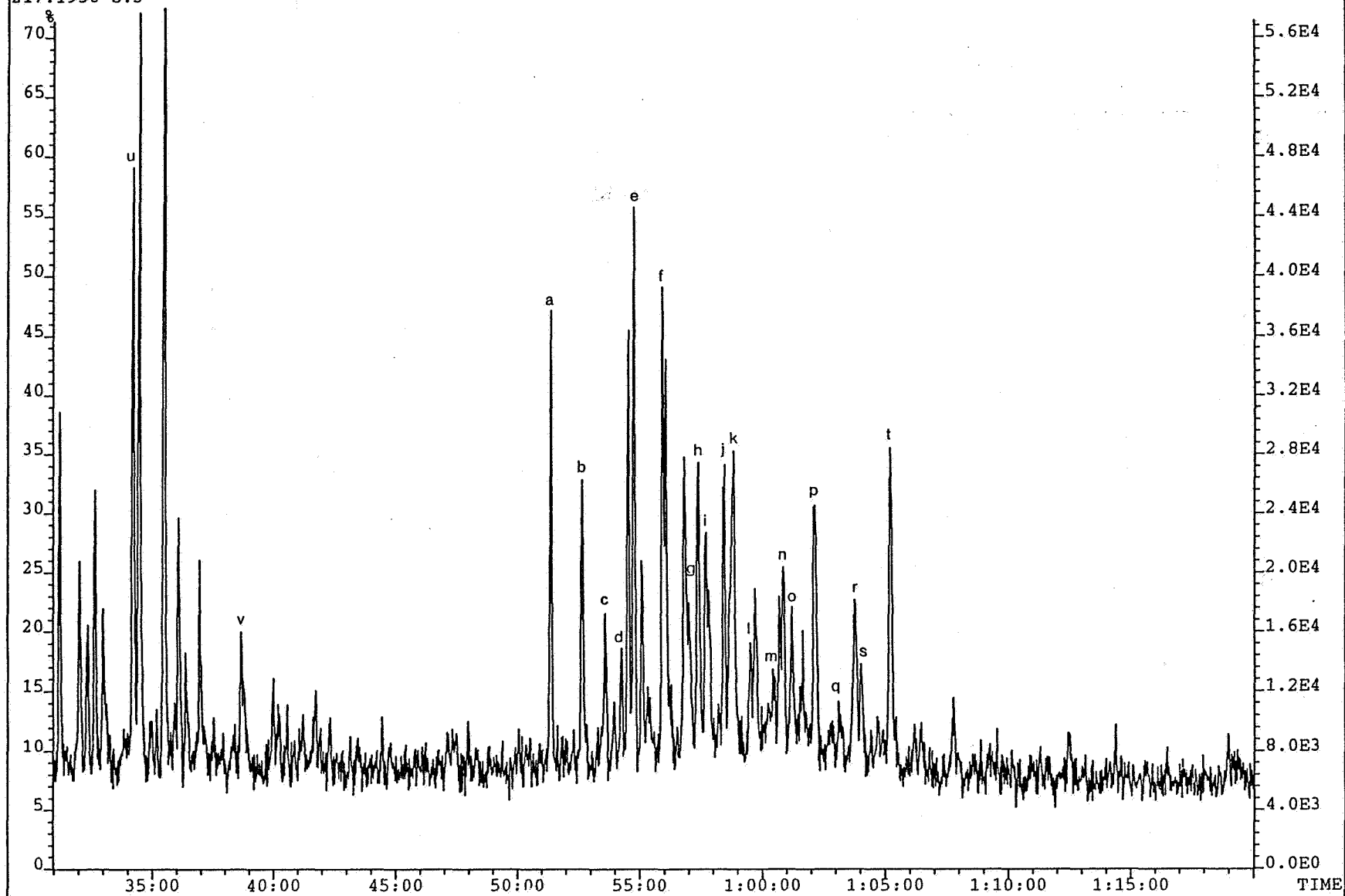


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
217.1956 S:3

Exp:SAT1



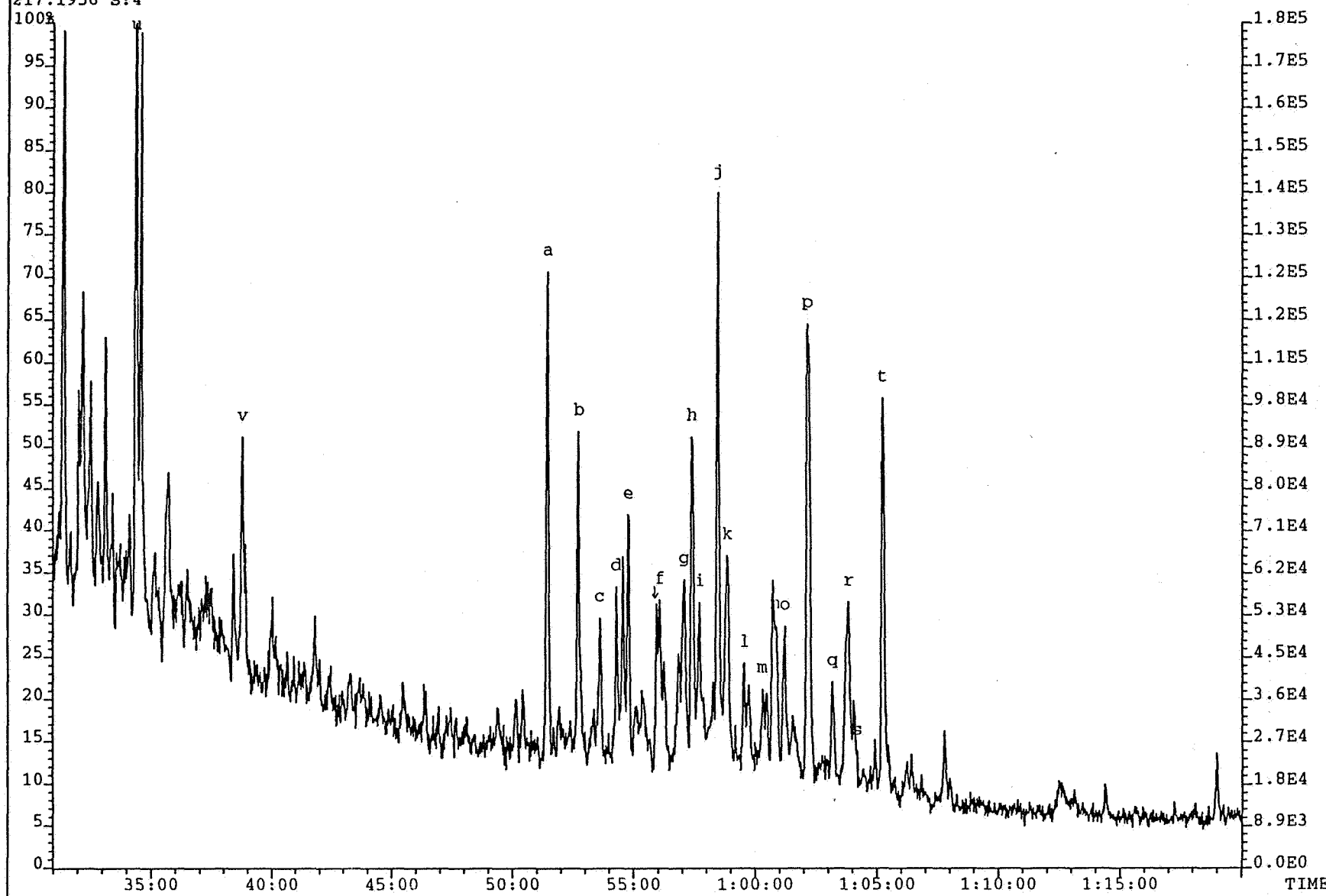
Schlumberger

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GEOLAB NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
217.1956 S:4

Exp:SAT1



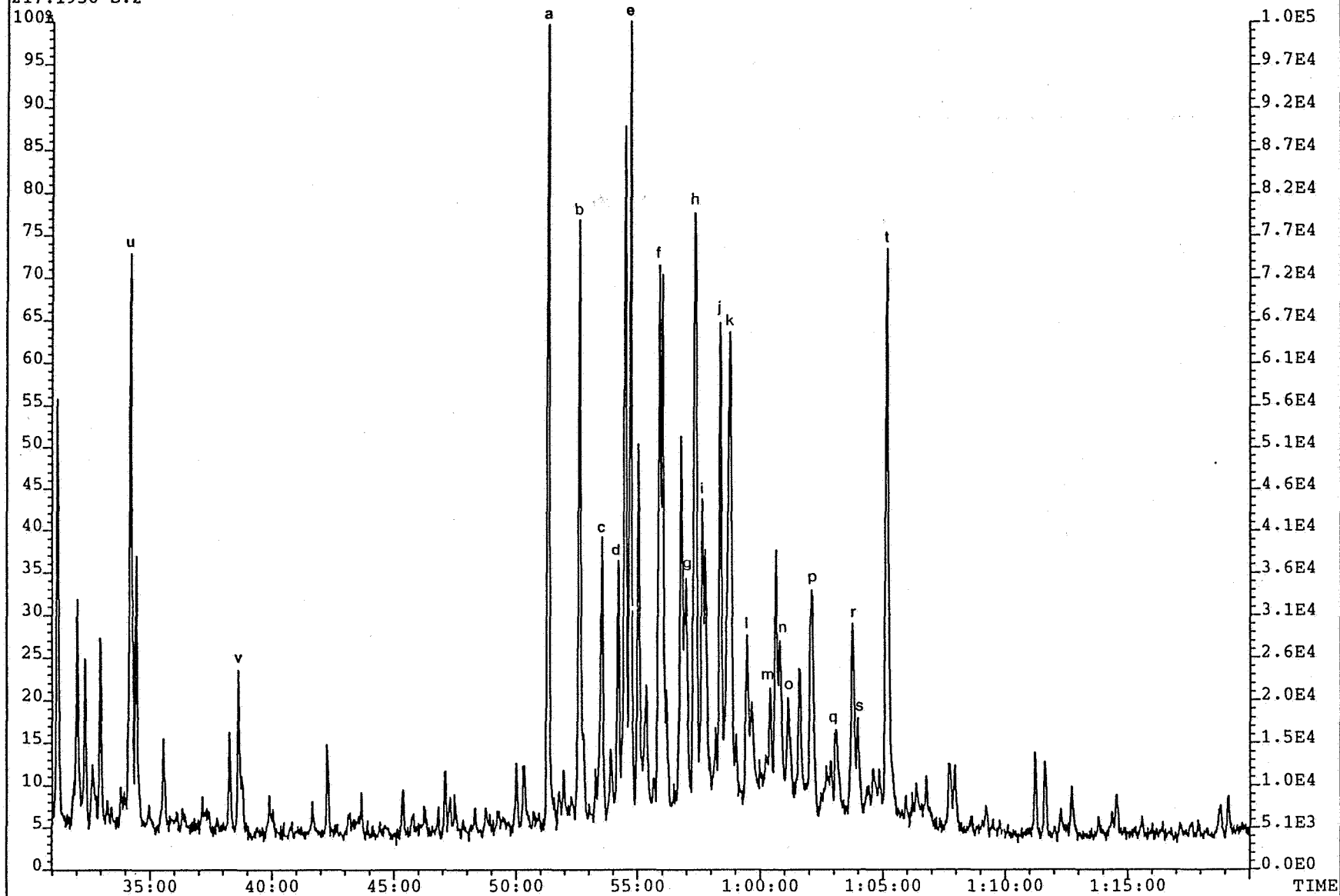
Schlumberger

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File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
217.1956 S:2

Exp:SAT1



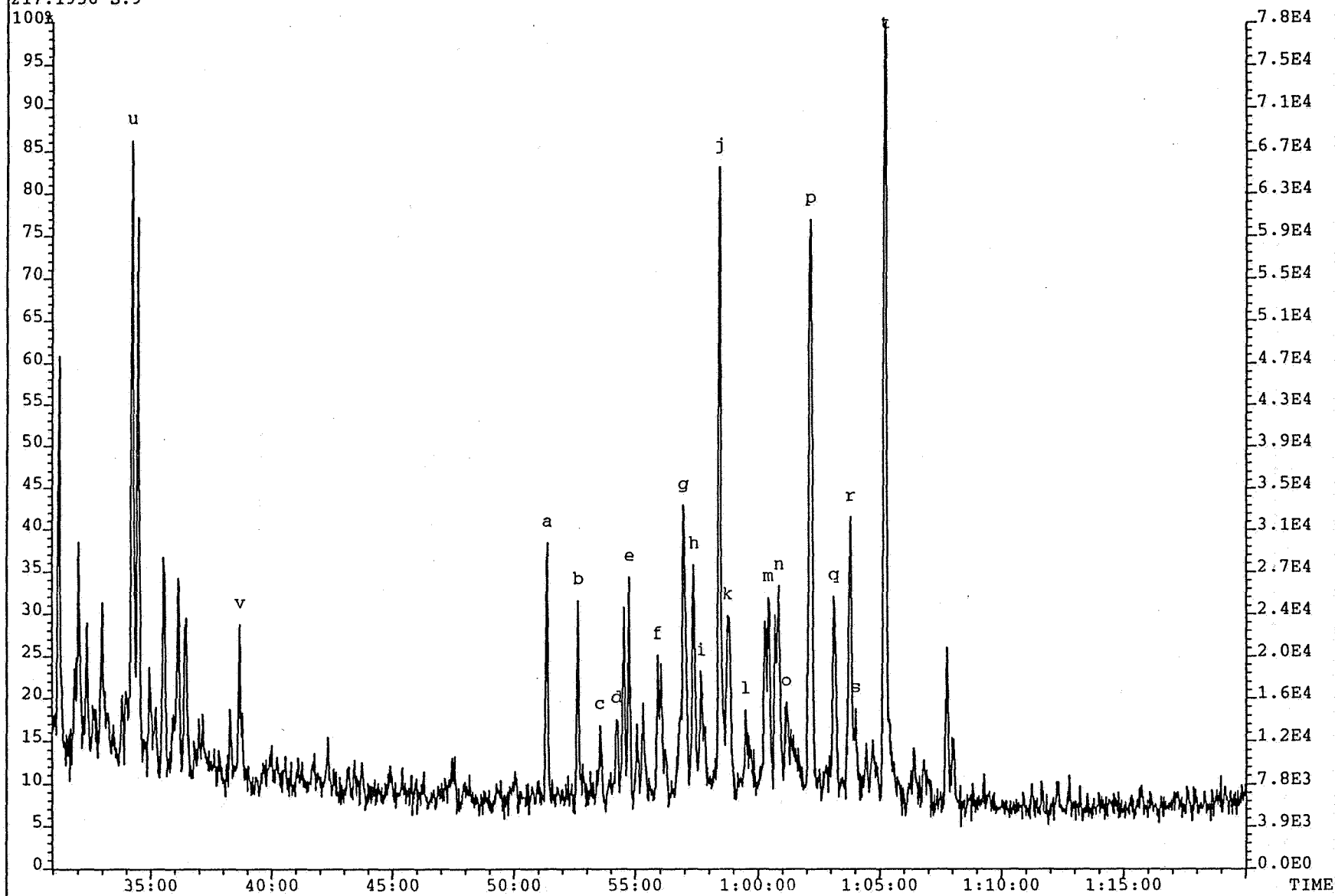
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
217.1956 S:9

Exp:SAT1



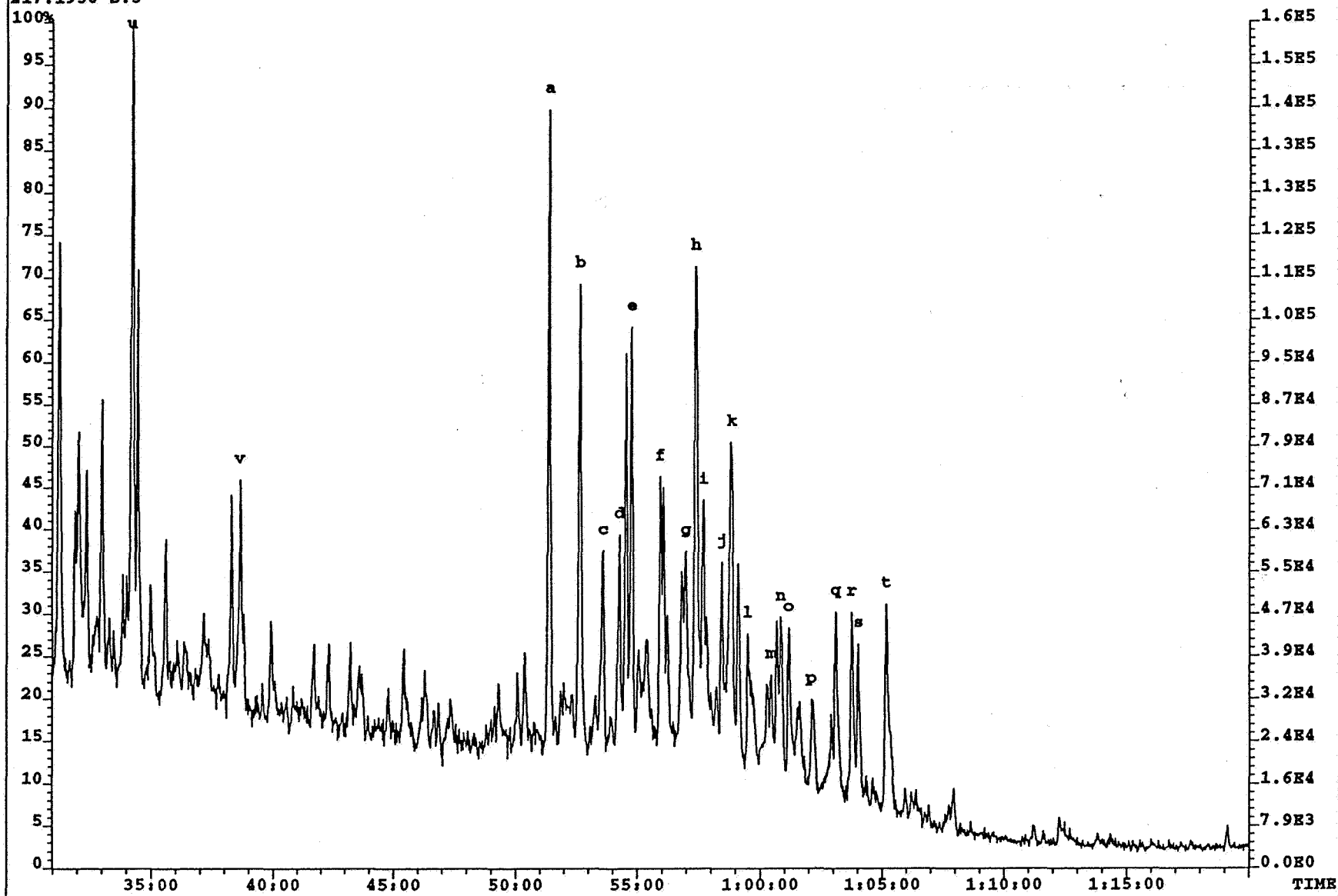
Schlumberger

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GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
 Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
 217.1956 S:3

Exp:SAT1



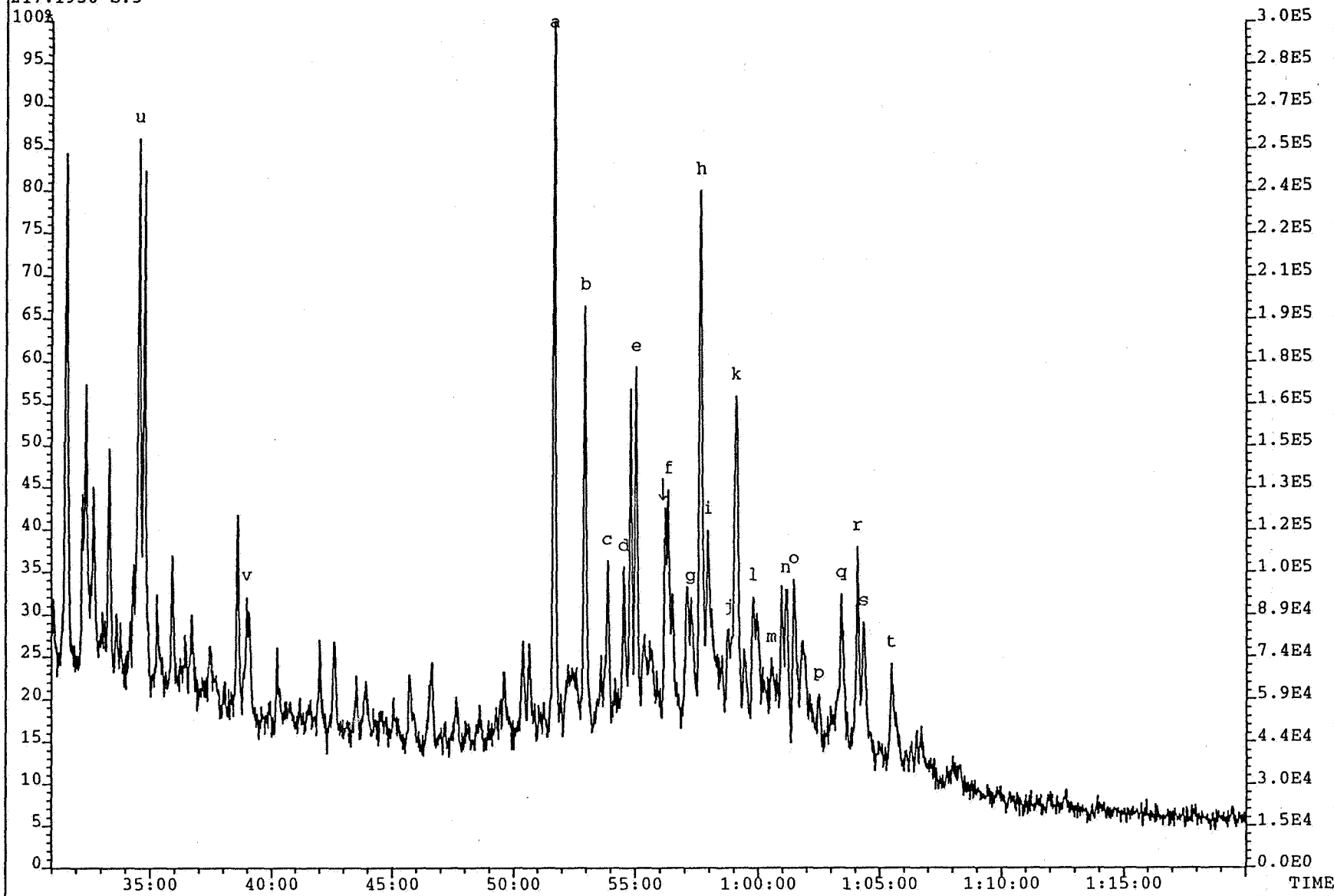
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
217.1956 S:5

Exp:SAT1



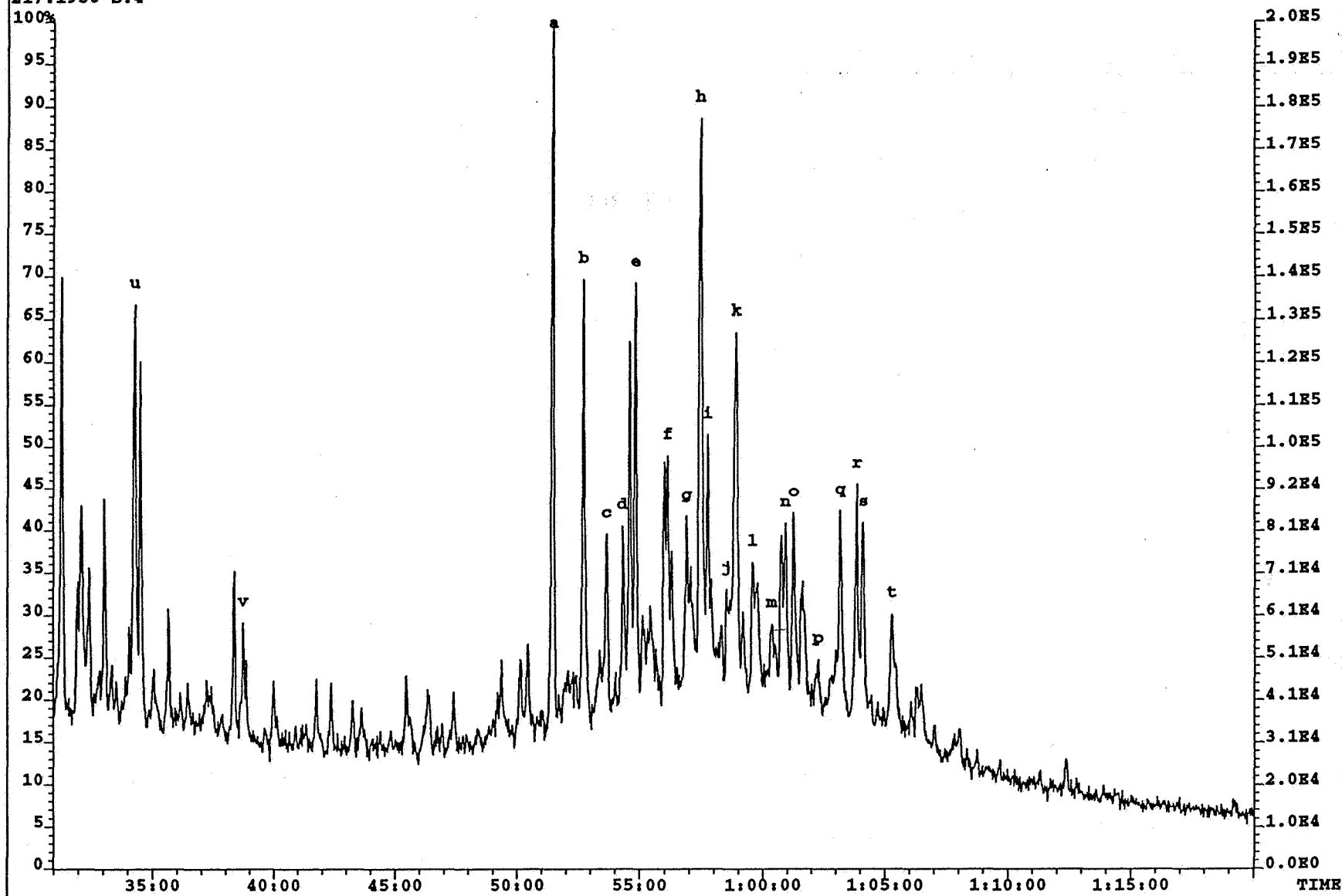
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
217.1956 S:4

Exp:SAT1



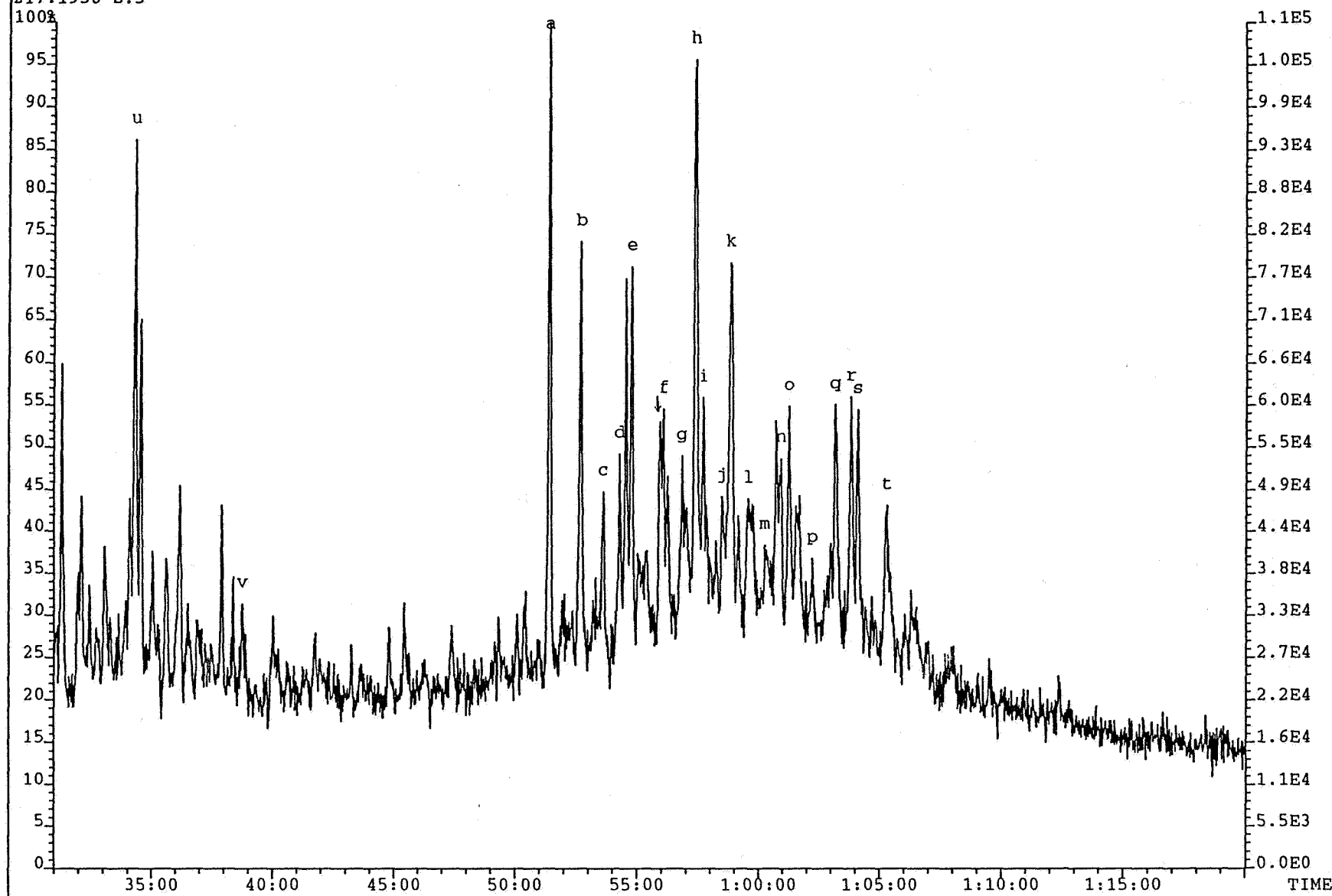
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
217.1956 S:5

Exp:SAT1

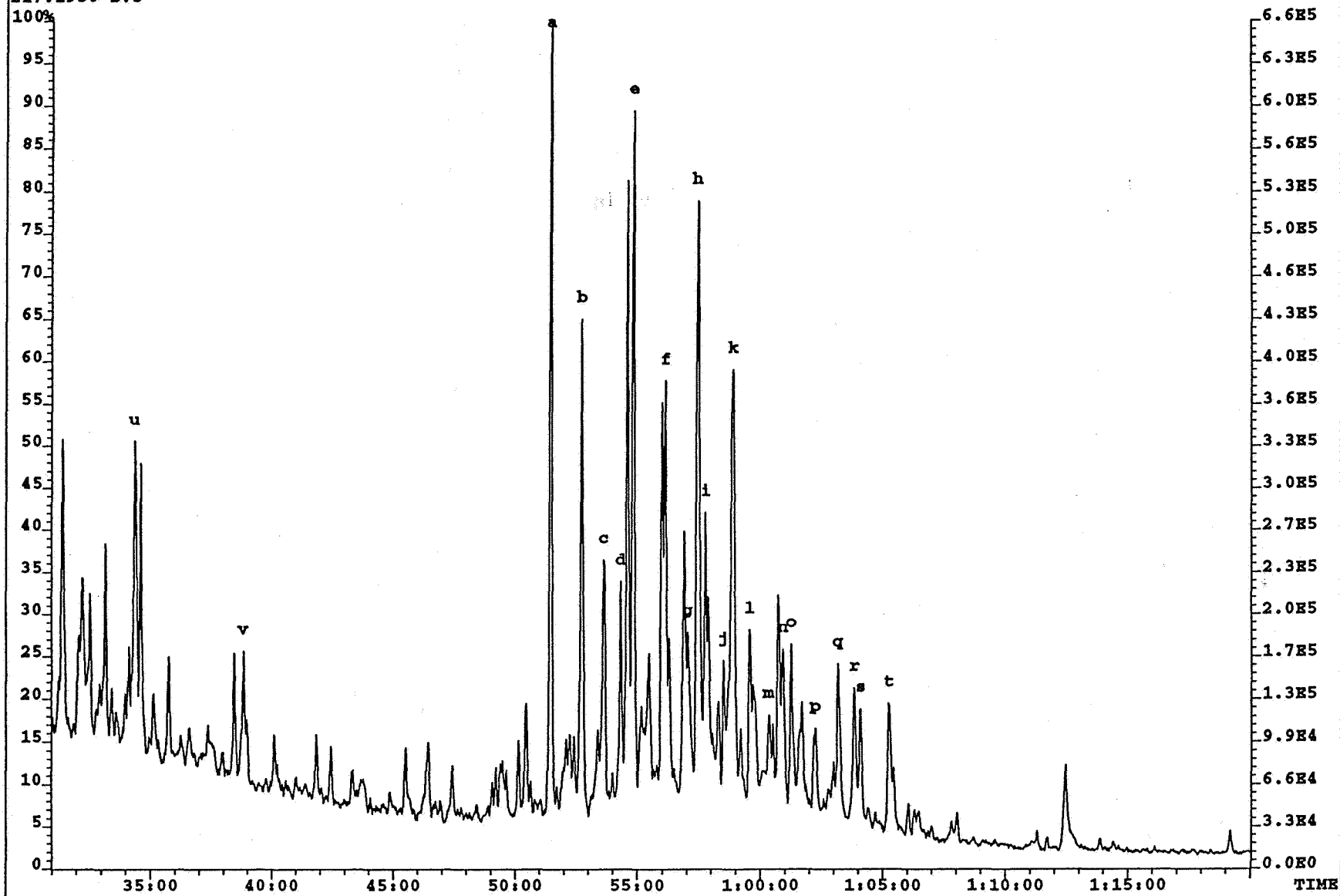


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
217.1956 S:5

Exp 8 SAT1

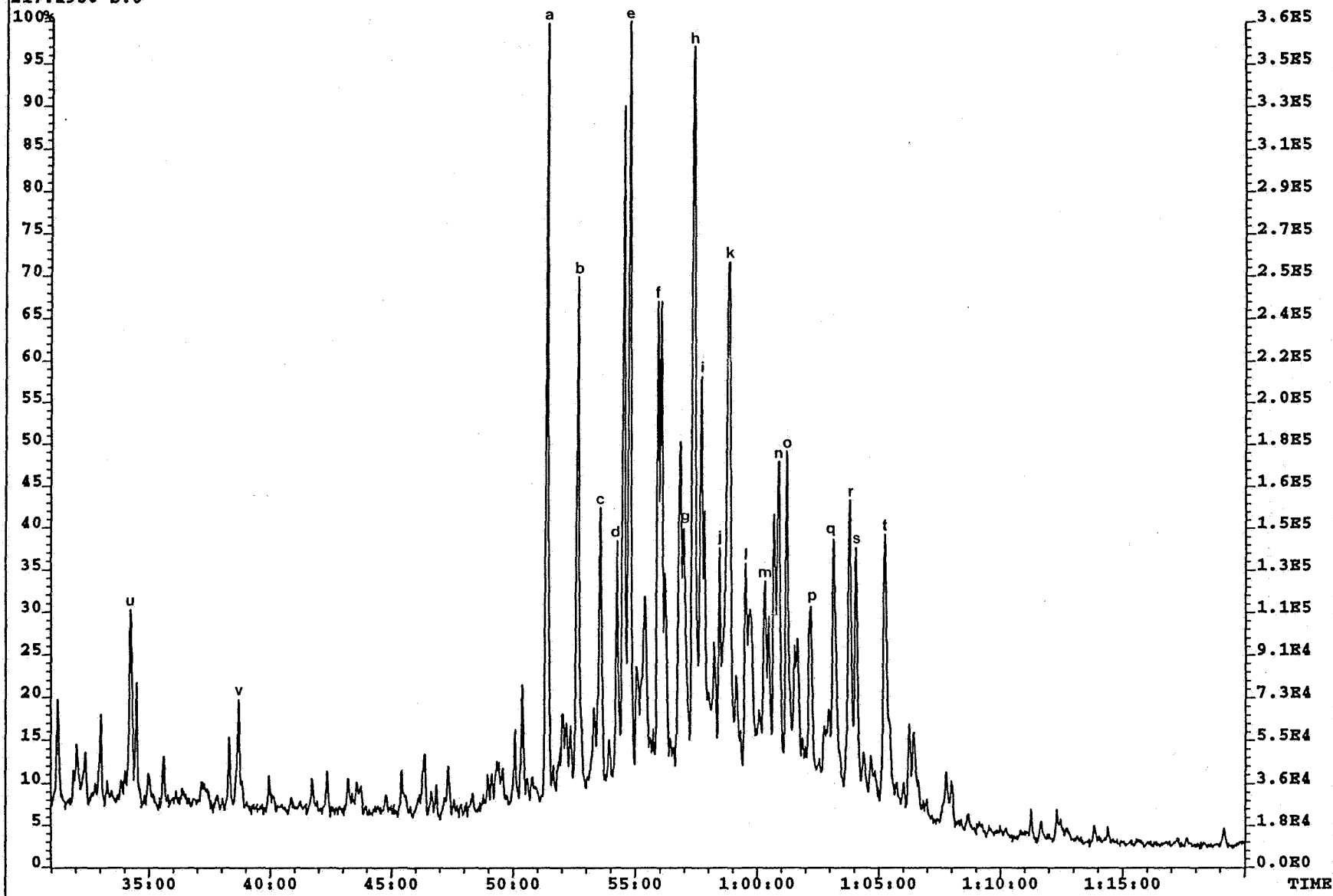
Schlumberger

GECO-PRAKLA

GEOLAB  **NOR**

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL, 6506/11-3, 3976.84M, SATURATED FRACTION
217.1956 S:6

Exp:SAT1



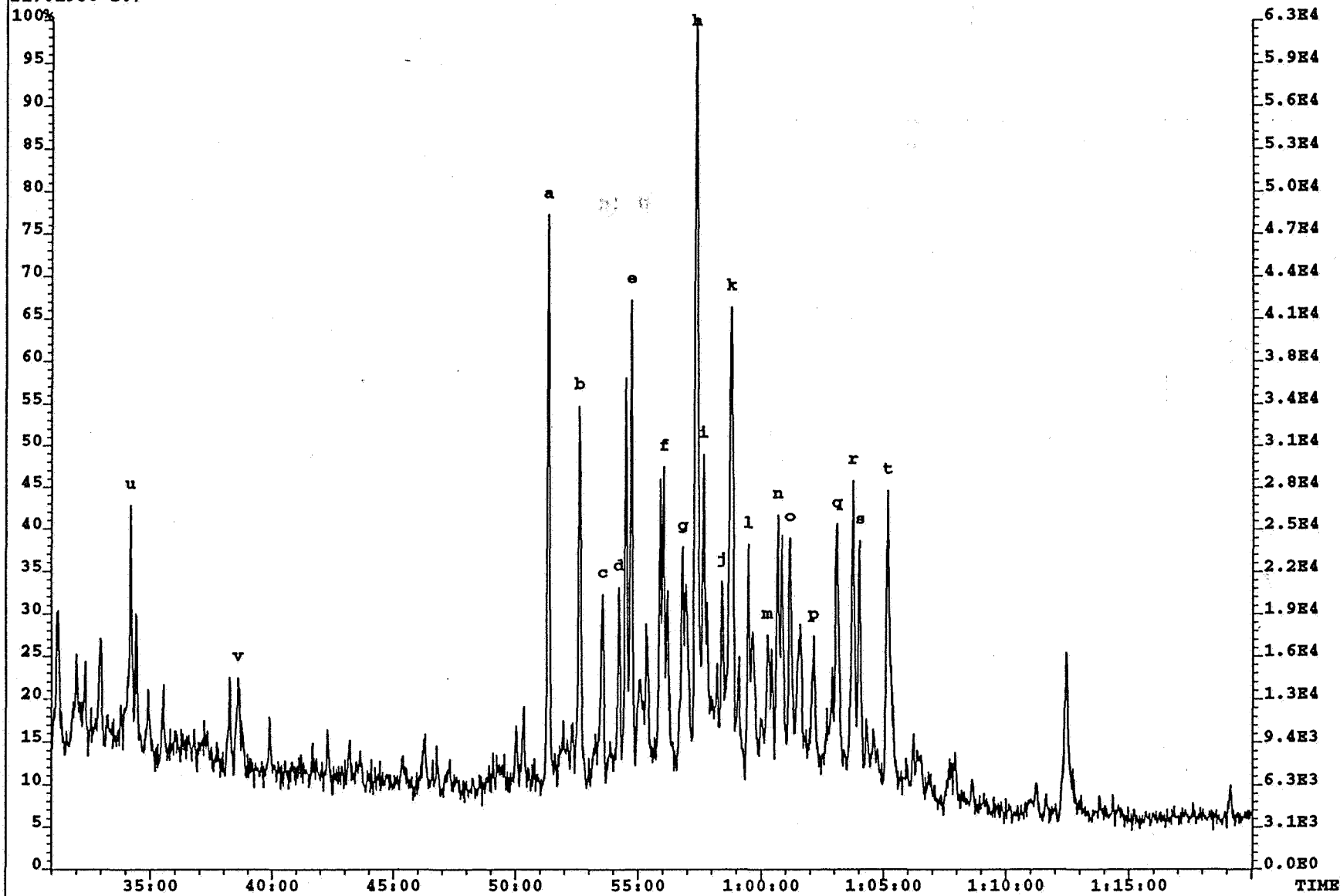
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
217.1956 S:7

Exp:SAT1



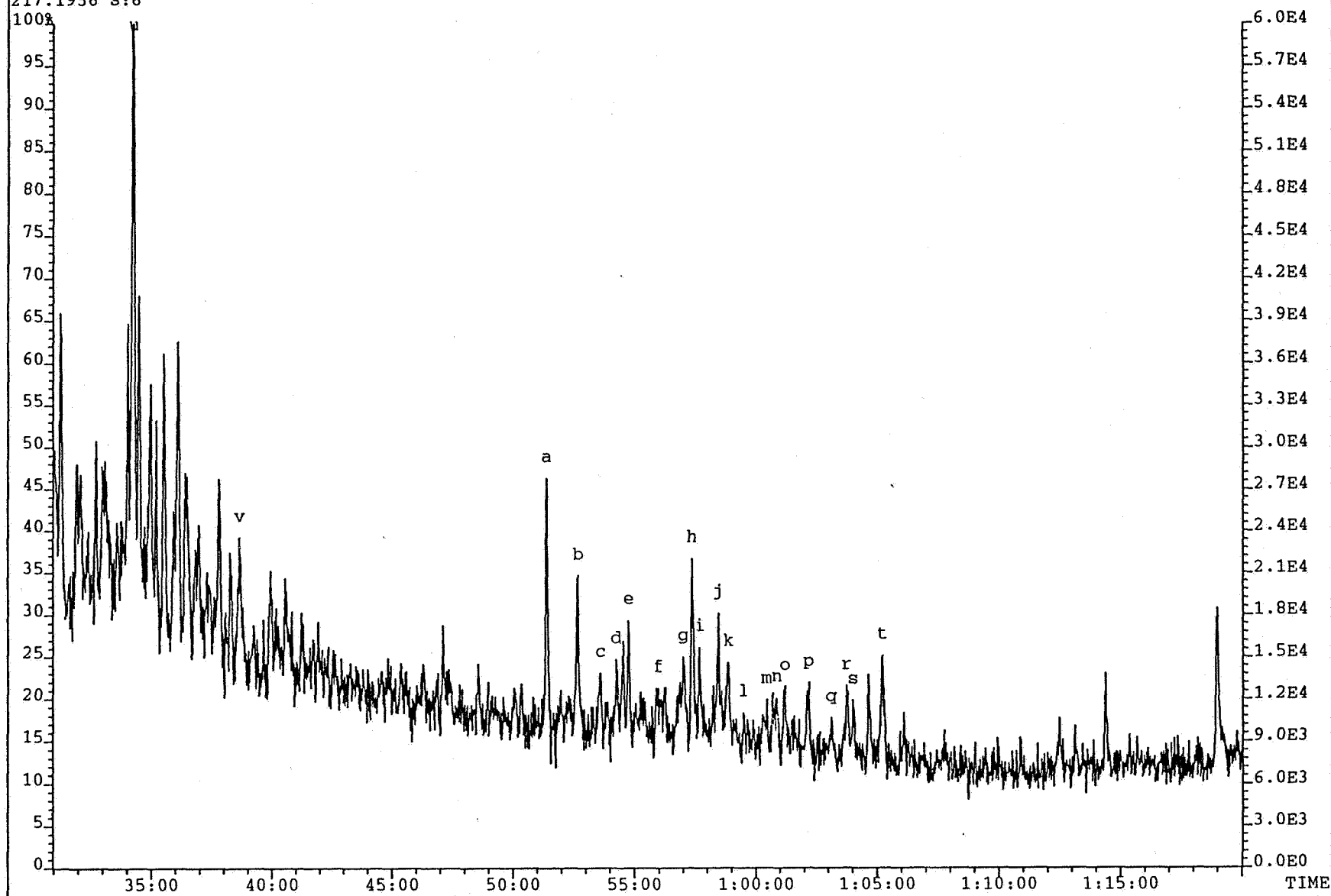
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
217.1956 S:6

Exp:SAT1



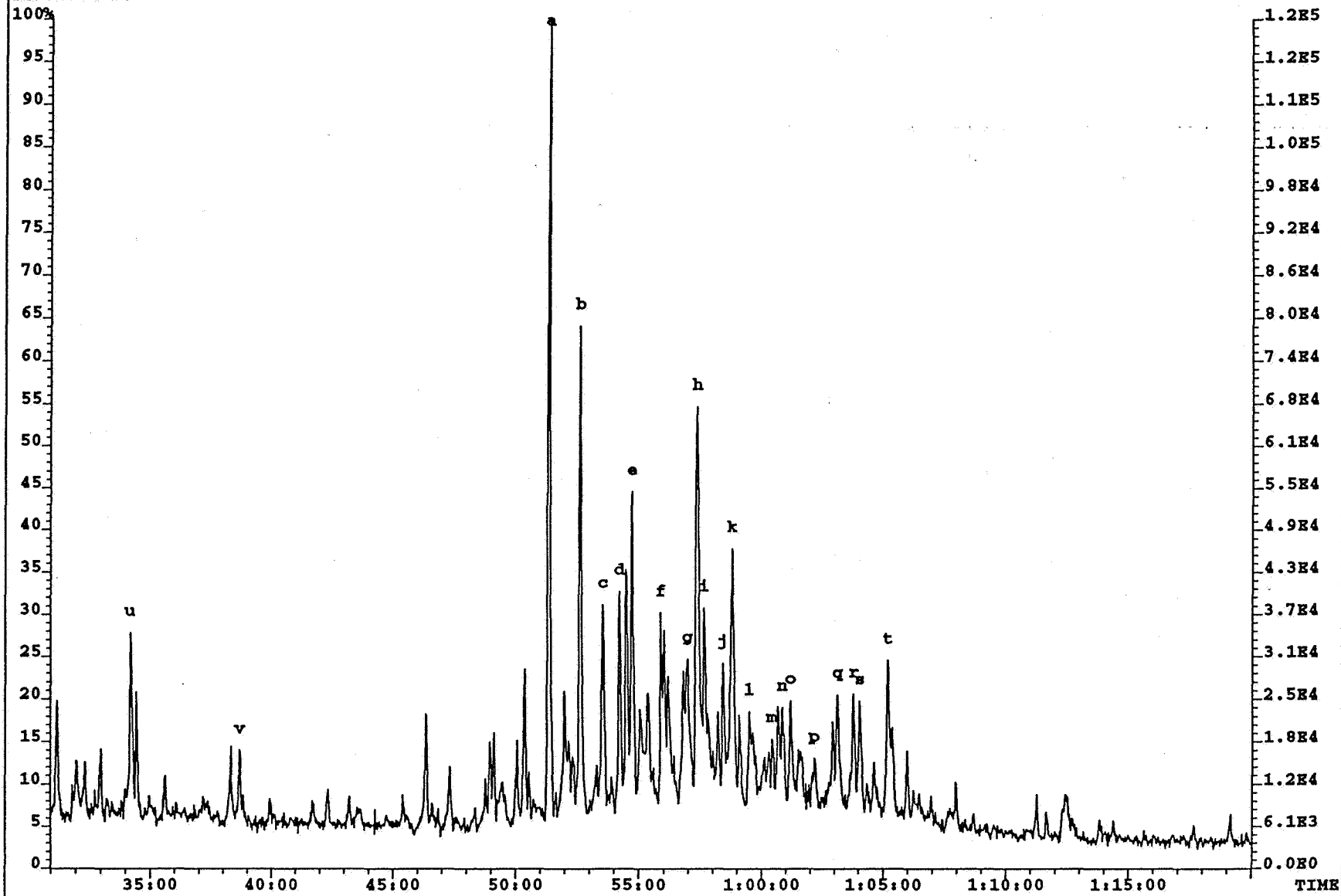
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
 Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
 217.1956 S:8

Exp:SAT1



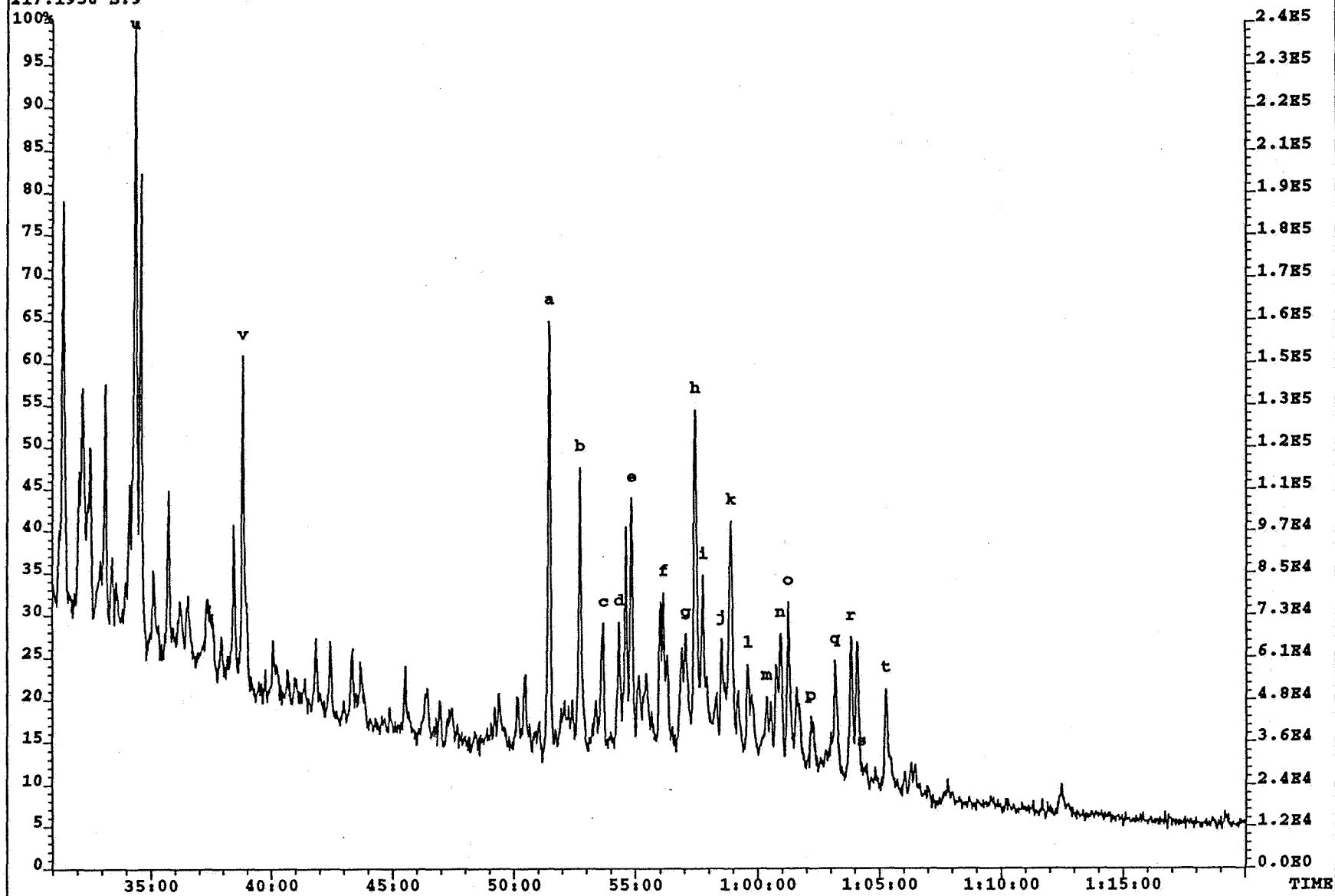
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
217.1956 S:9

Exp:SAT1



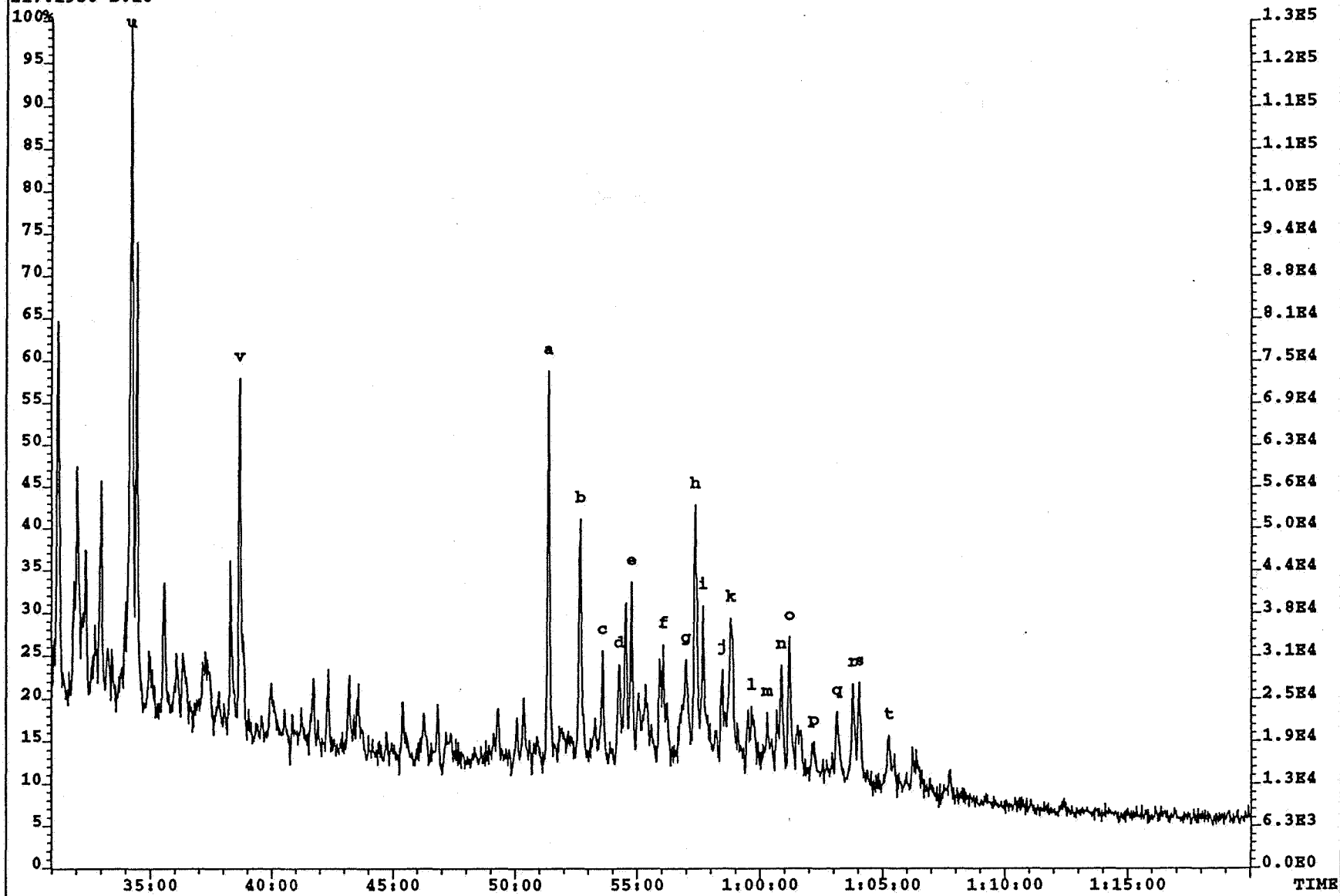
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
217.1956 S:10

Exp:SAT1



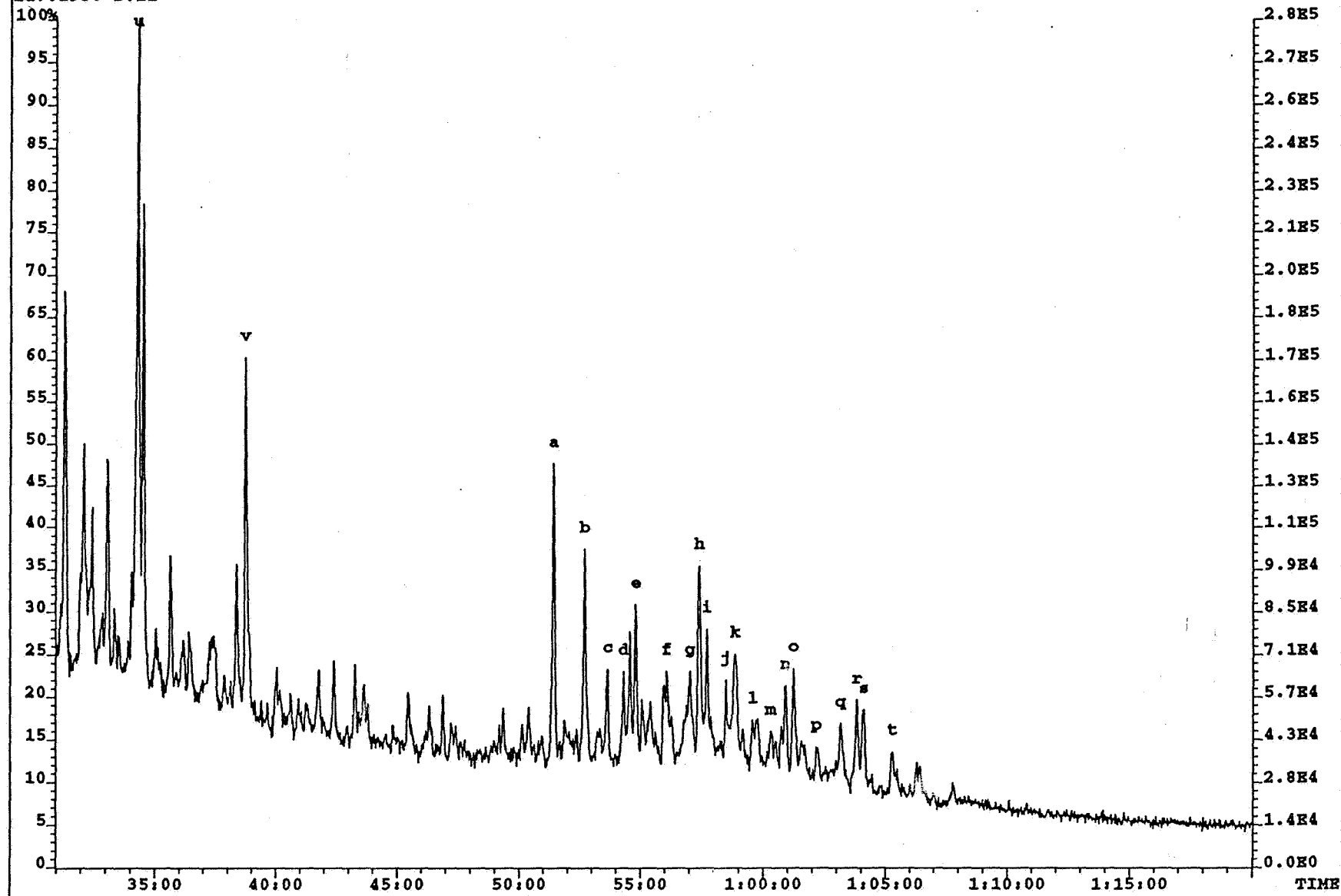
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 RI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
217.1956 S:11

Exp:SAT1



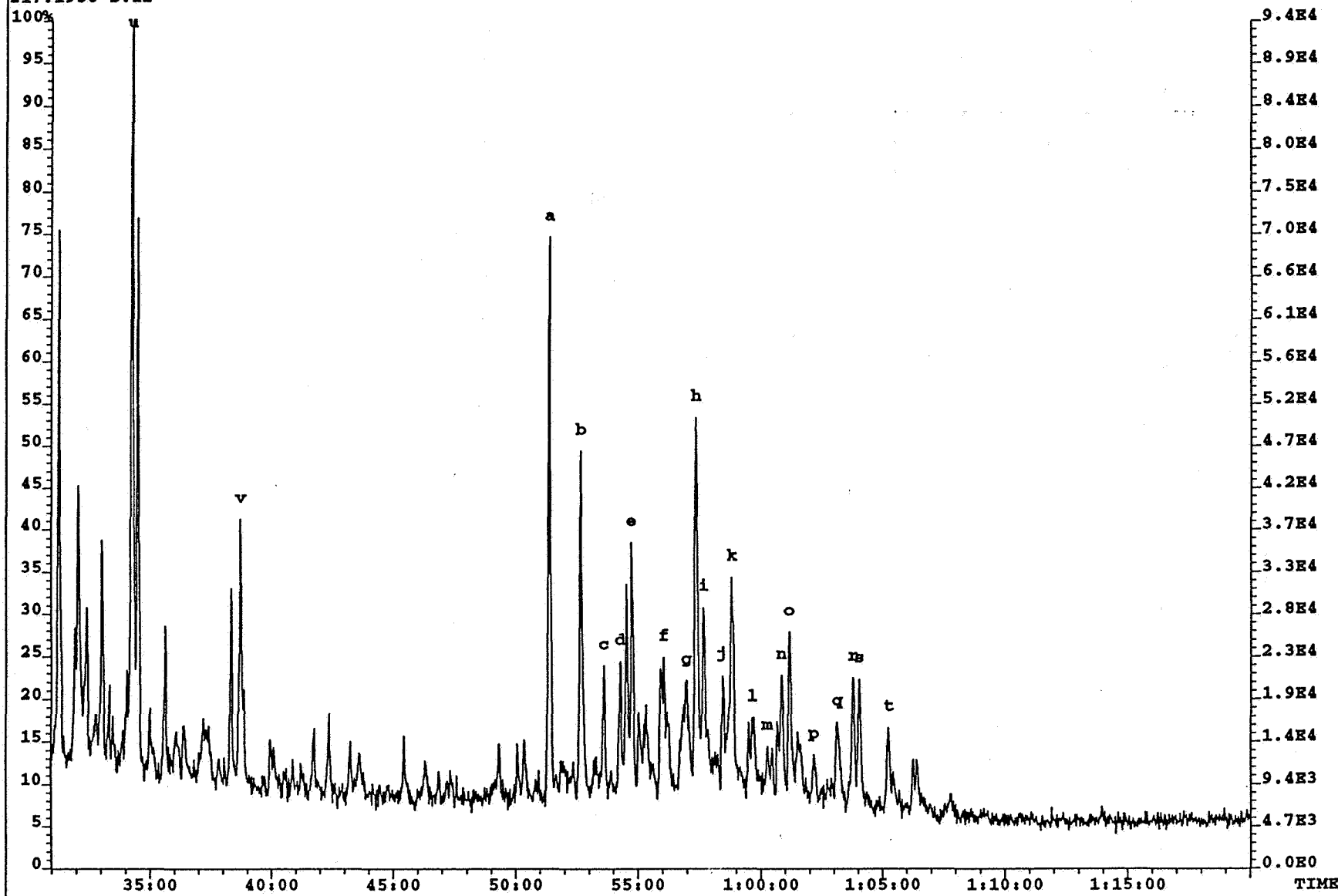
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
217.1956 S:12

Exp:SAT1



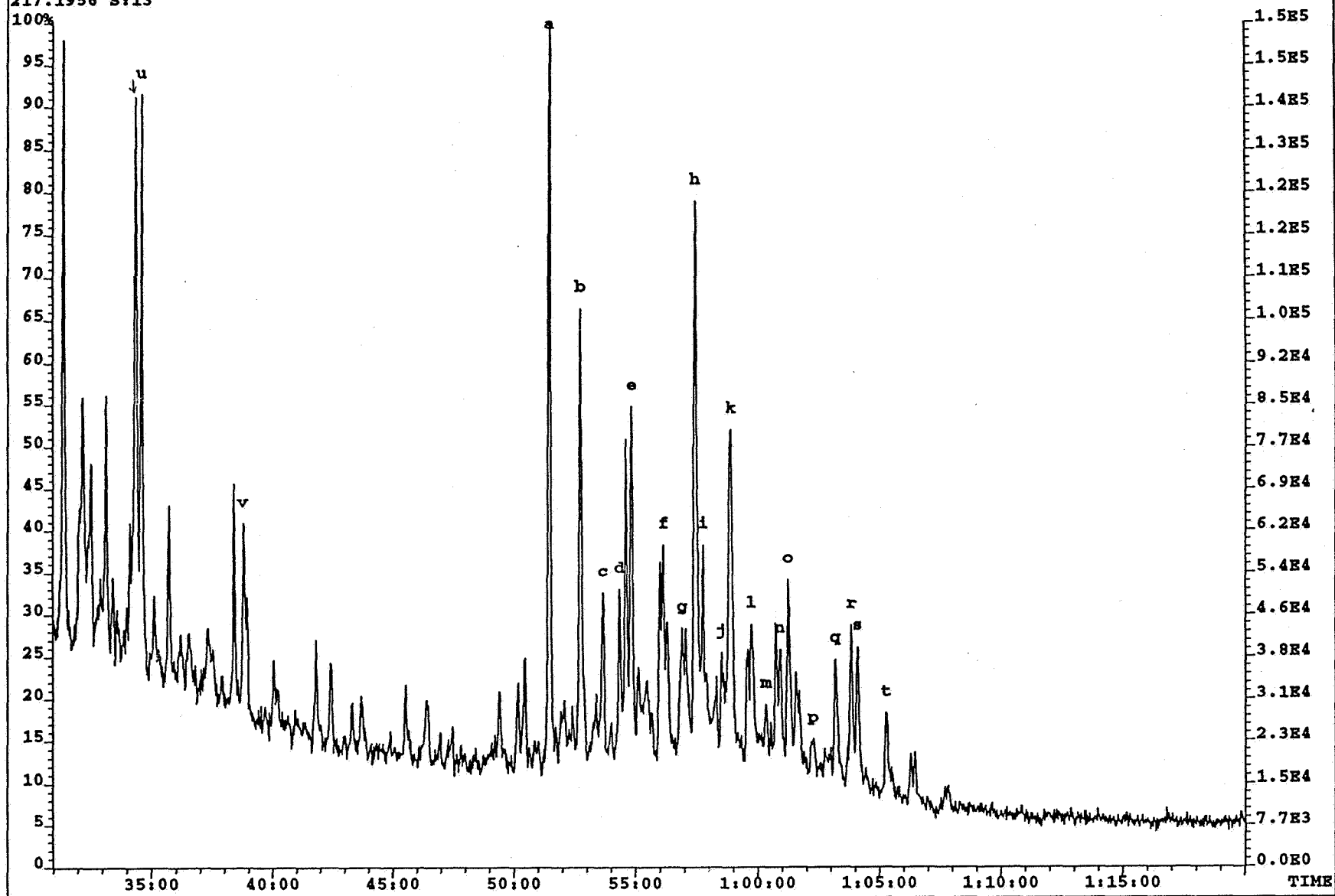
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
217.1956 S:13

Exp:SAT1



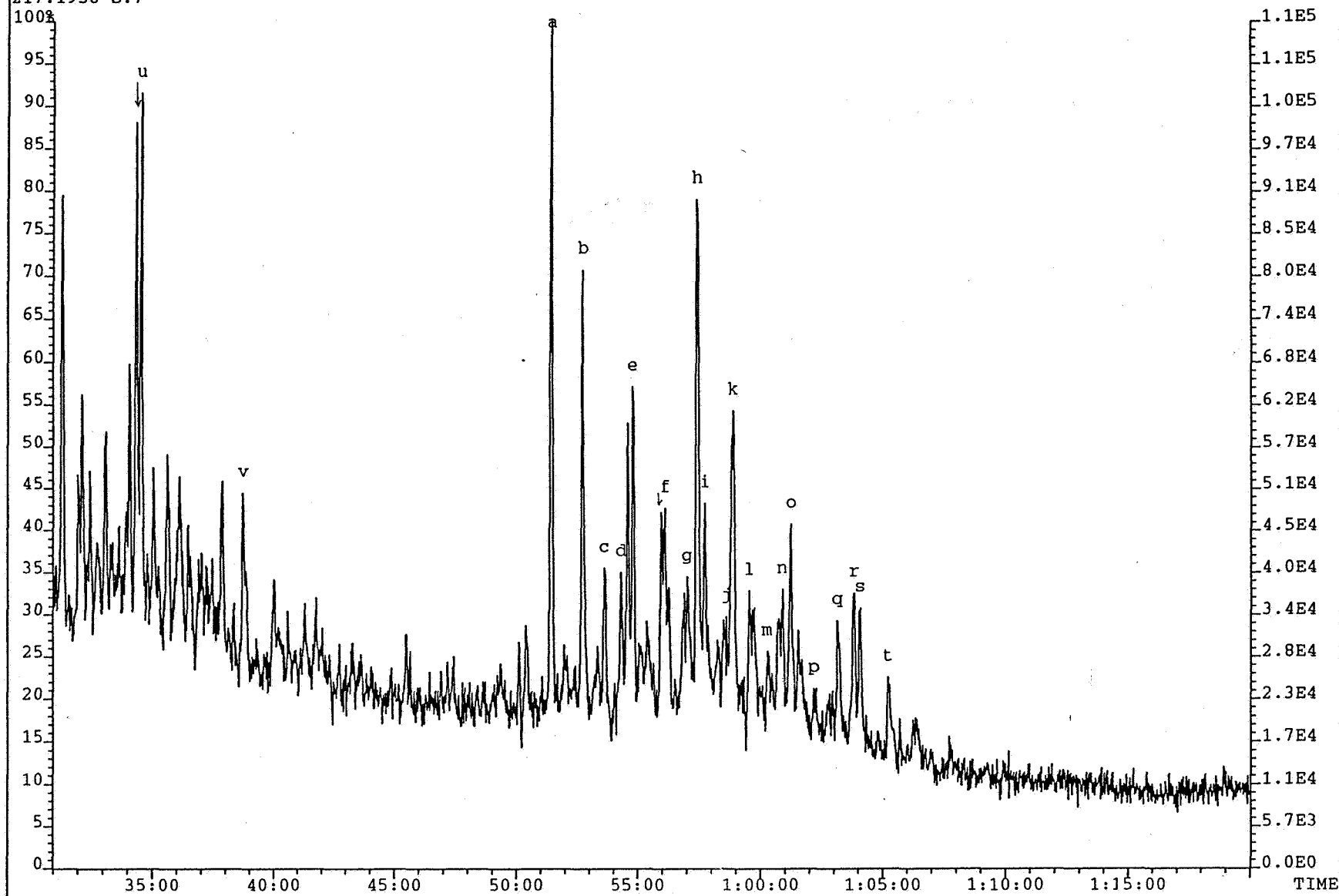
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
217.1956 S:7

Exp:SAT1



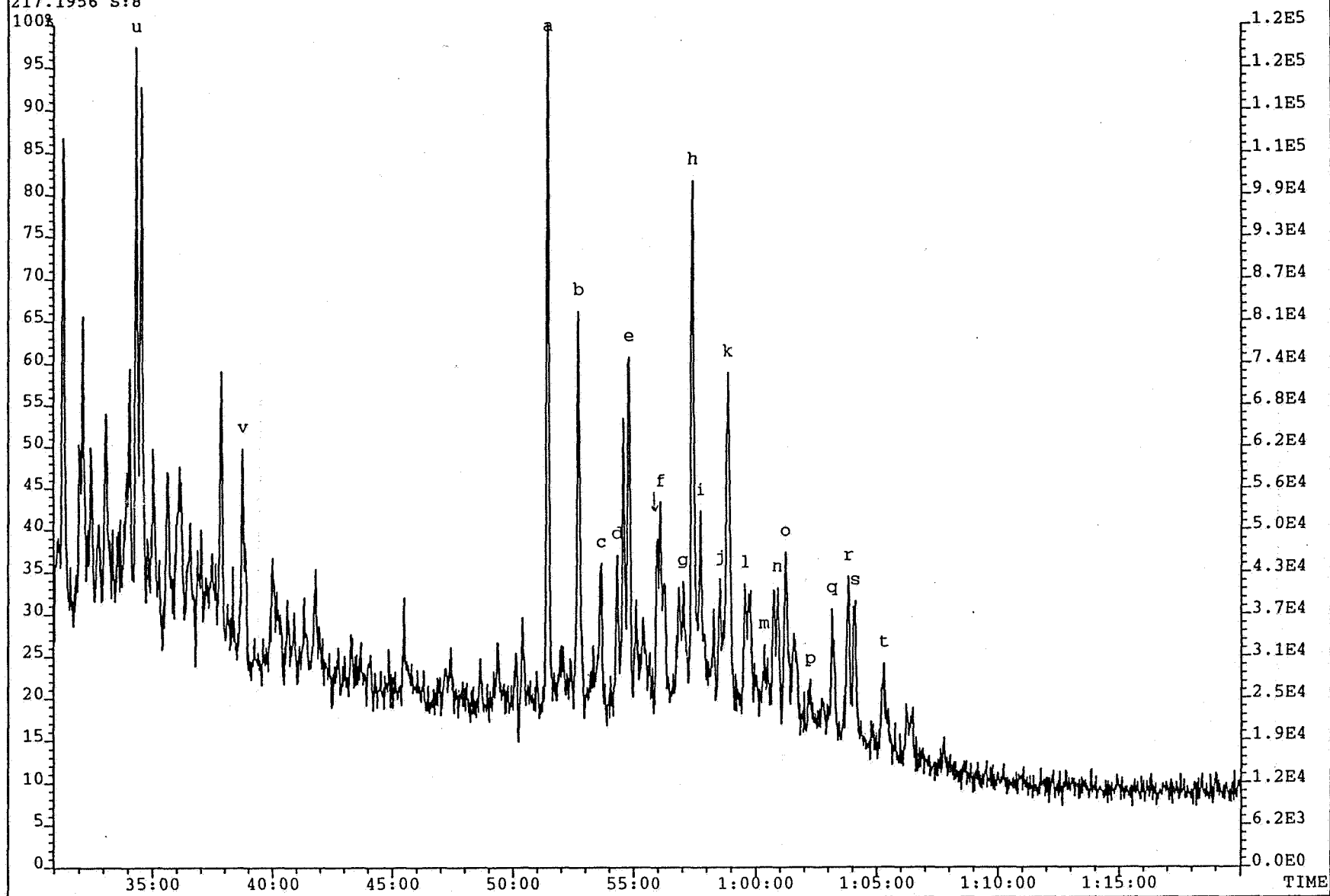
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
217.1956 S:8

Exp:SAT1

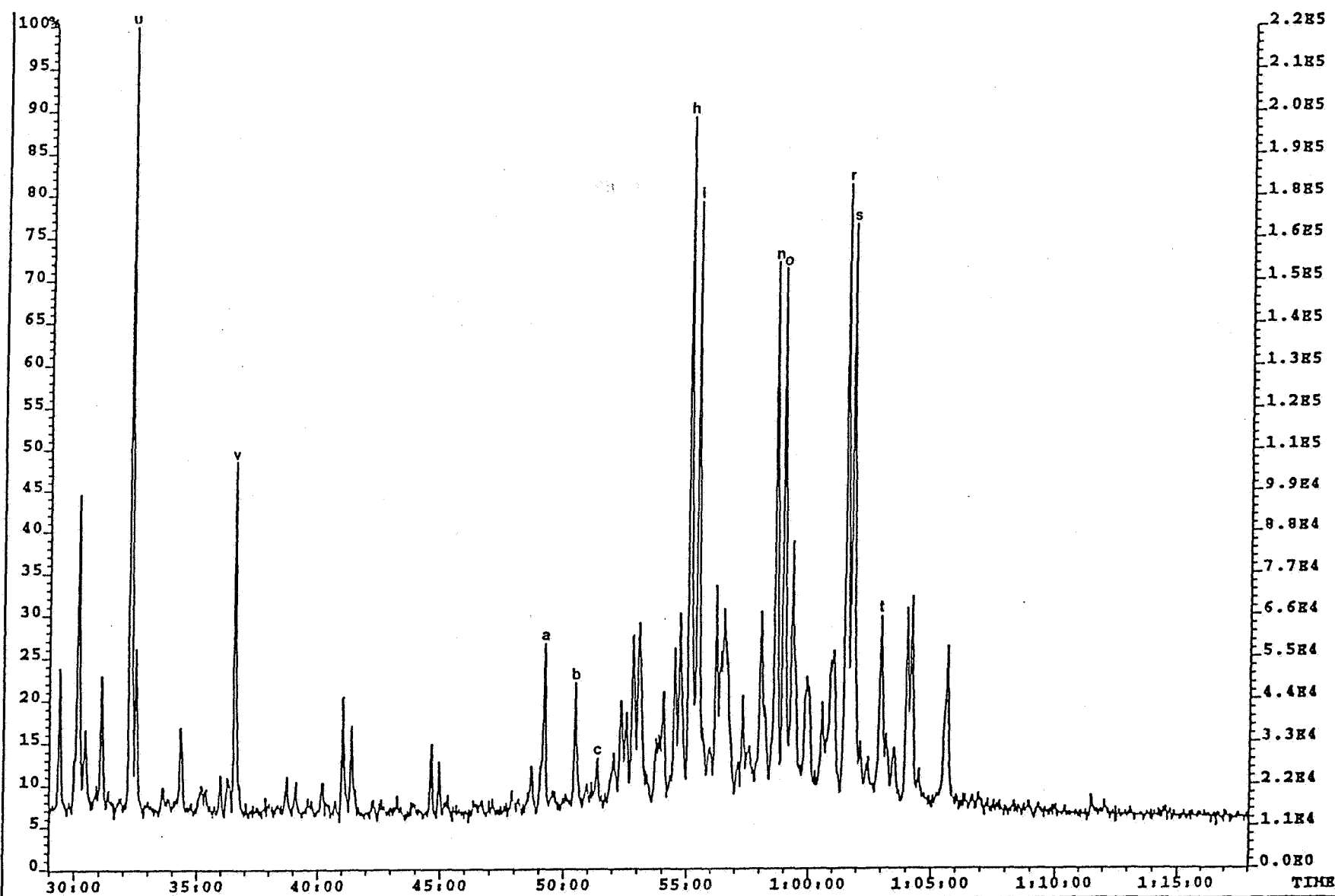


Schlumberger

GECO-PRAKLA

GEOLAB  NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 218. 14beta(H), 17beta(H) STERANES.



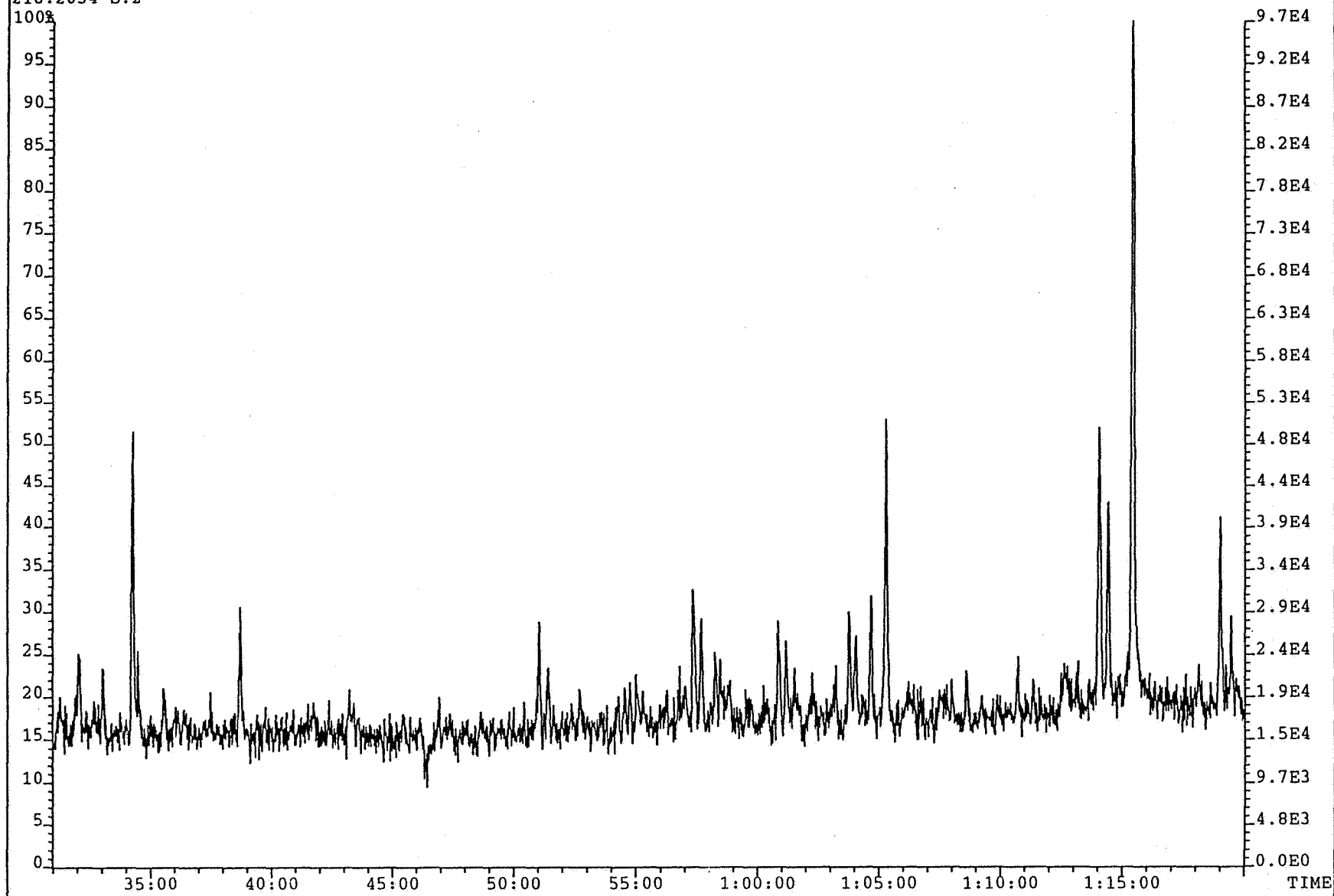
Schlumberger

GECO-PRAKLA

GEOLAB  **NOR**

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
218.2034 S:2

Exp:SAT1

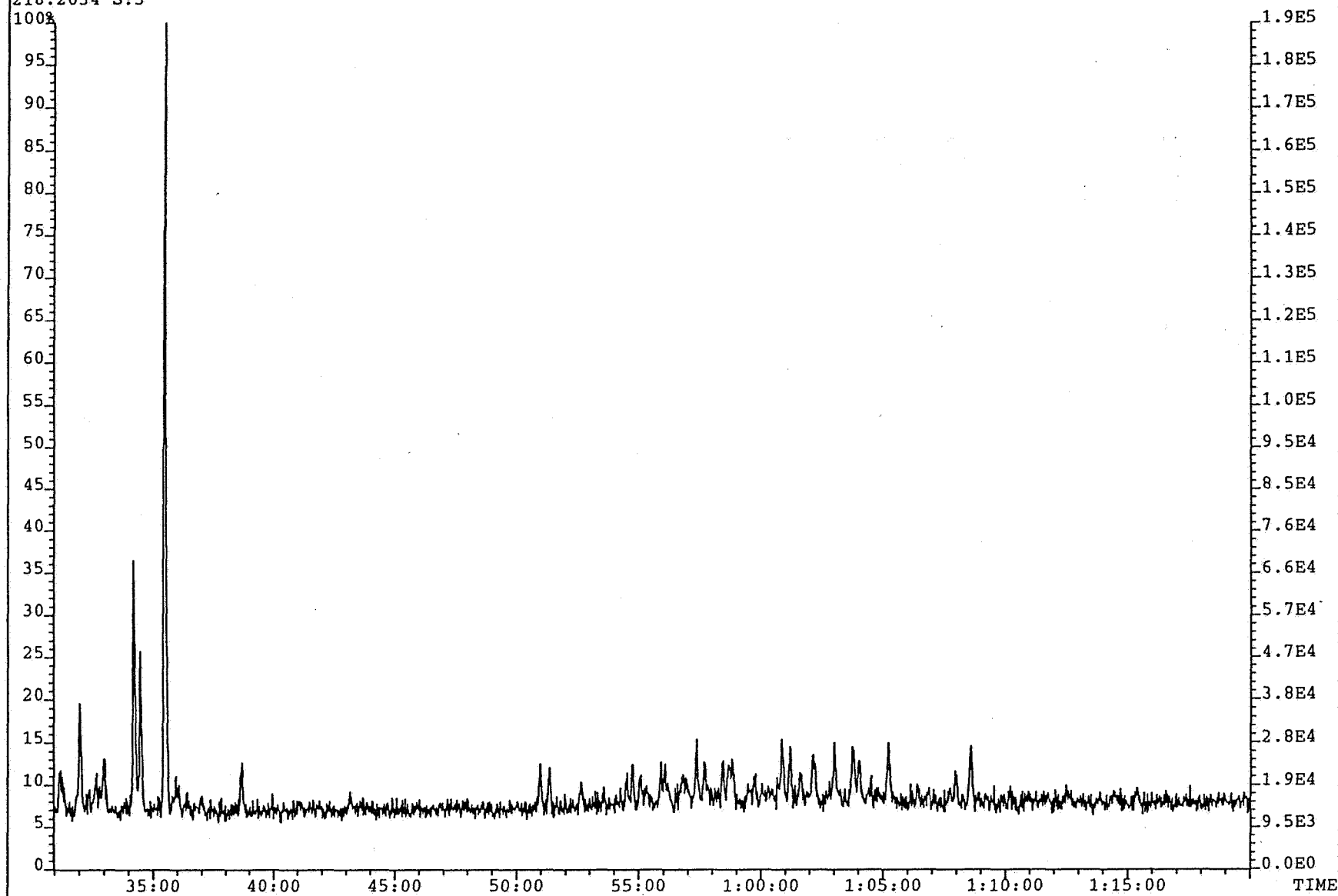


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
218.2034 S:3

Exp:SAT1



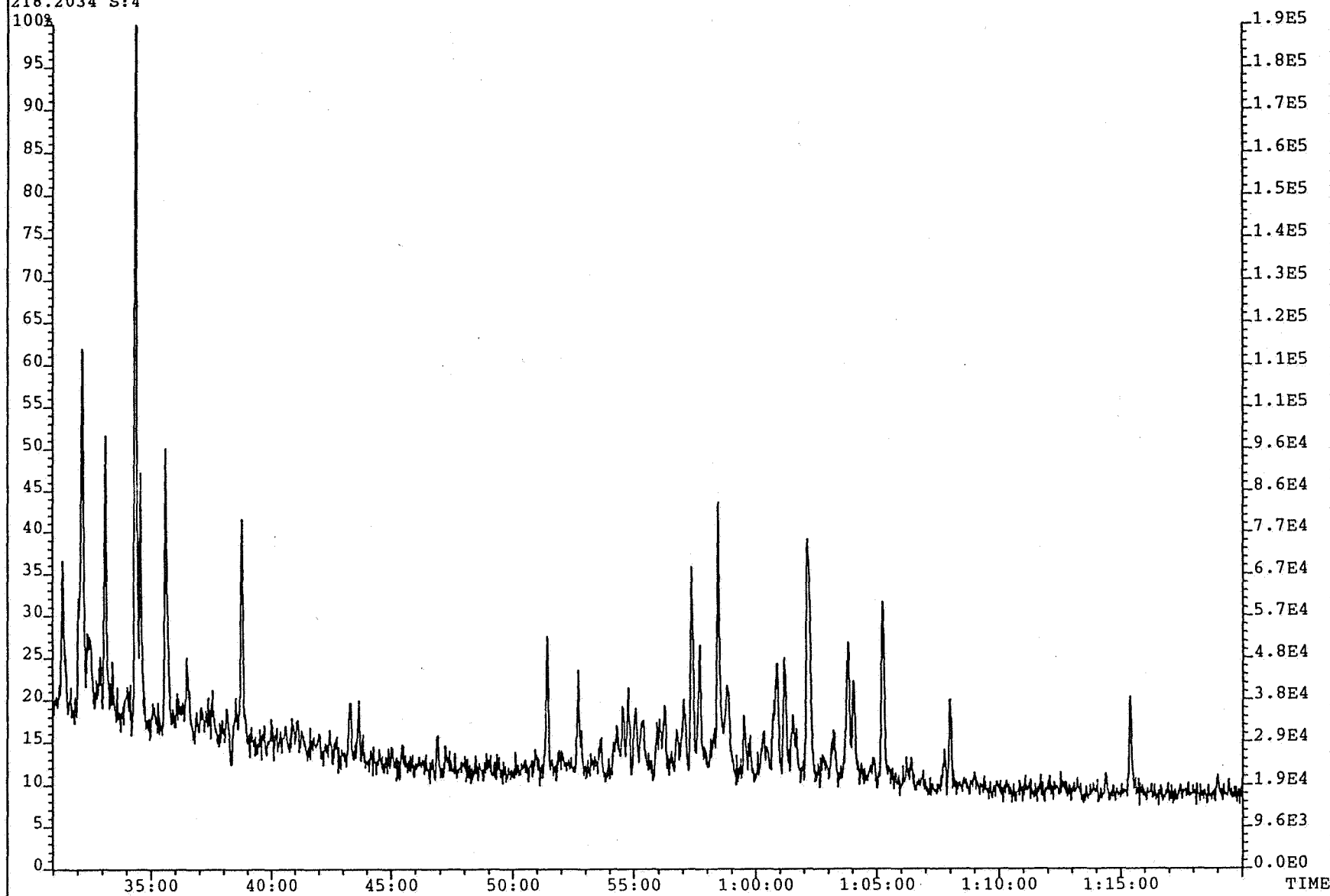
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File: STASAB #1-4338 Acq: 4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text: WELL 6506/11-3, 3138.5M, EOM
218.2034 S:4

Exp: SAT1



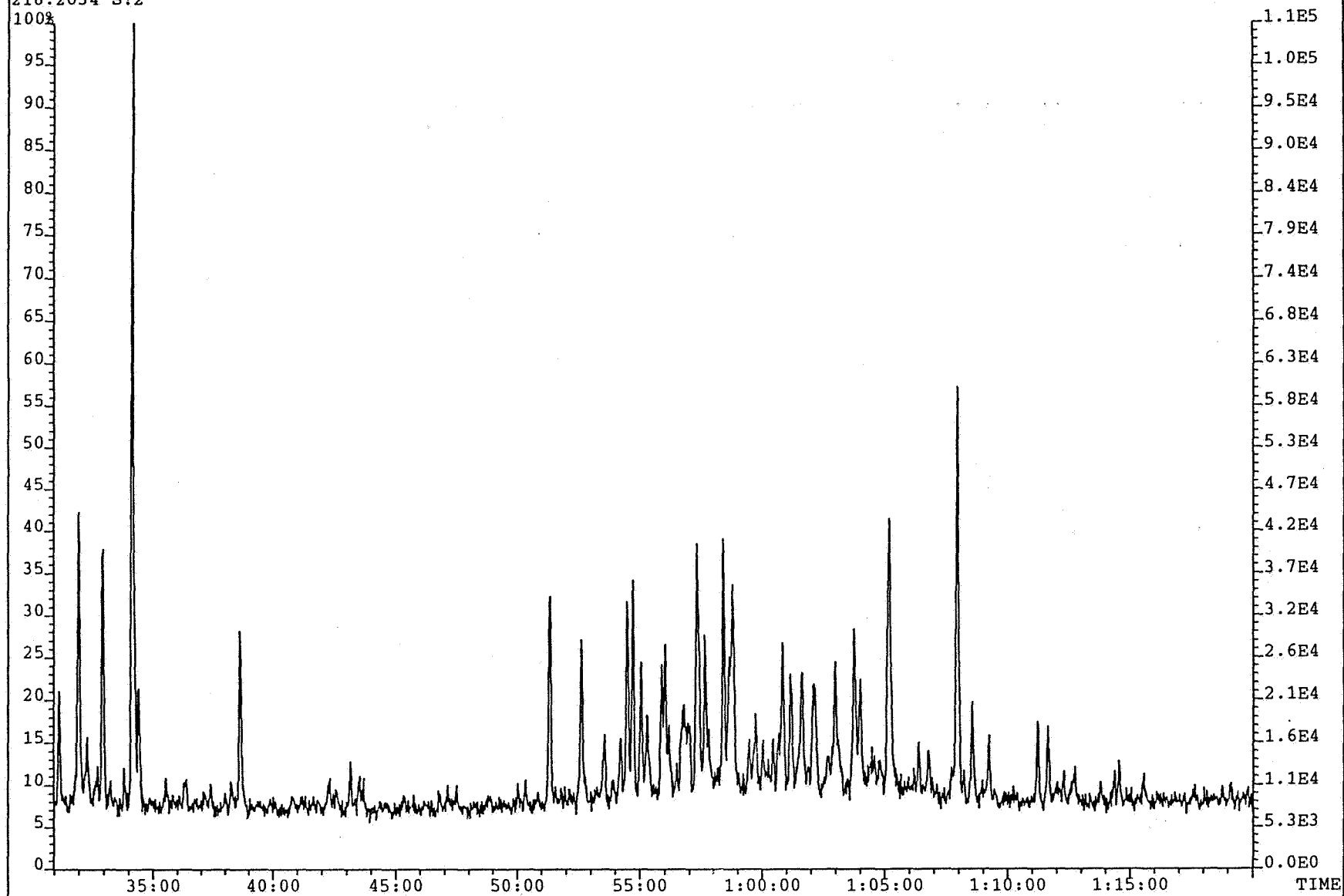
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
218.2034 S:2

Exp:SAT1



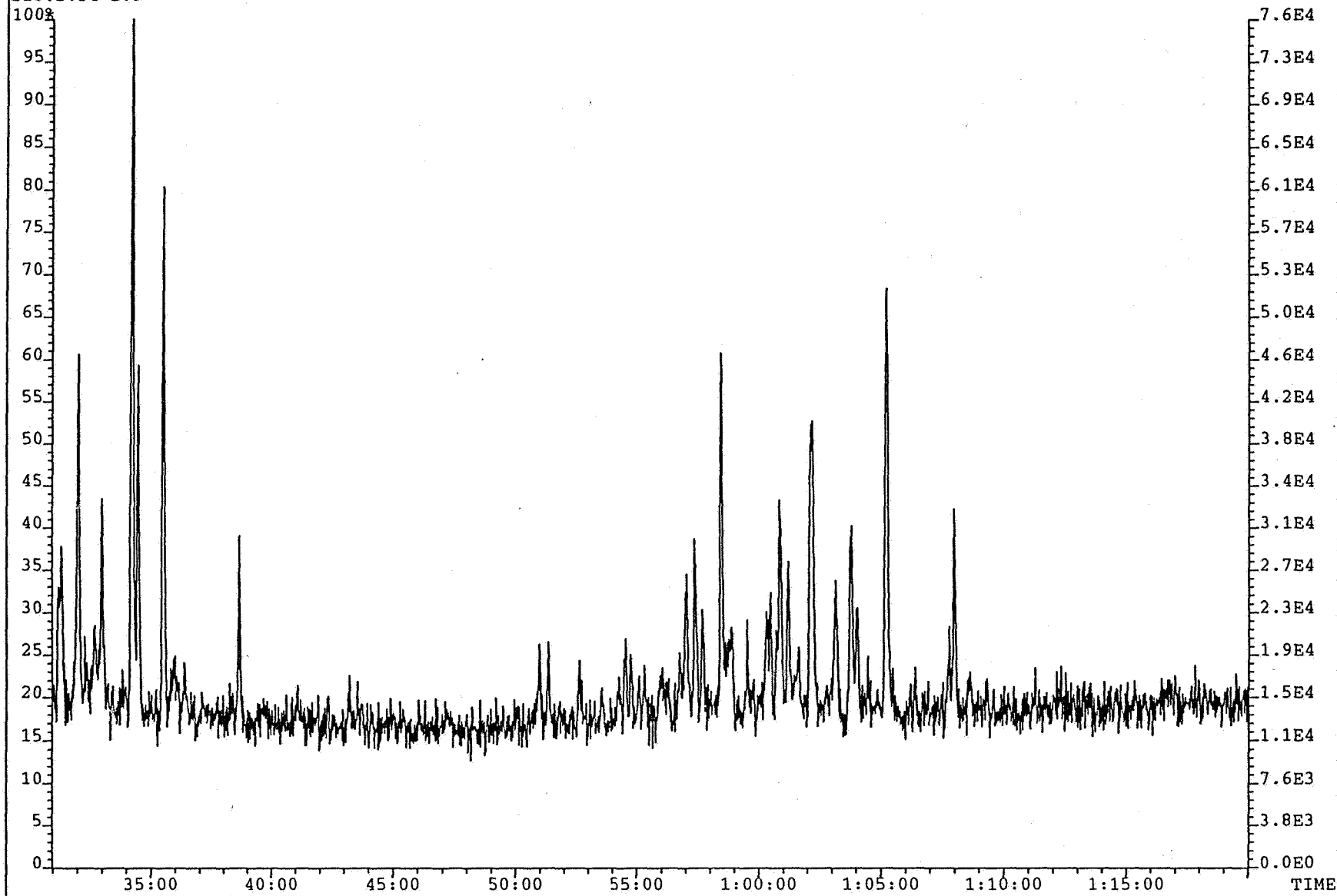
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File: STATSAB #1-4339 Acq: 4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text: WELL 6506/11-3, 3420M, EOM
218.2034 S:9

Exp: SAT1



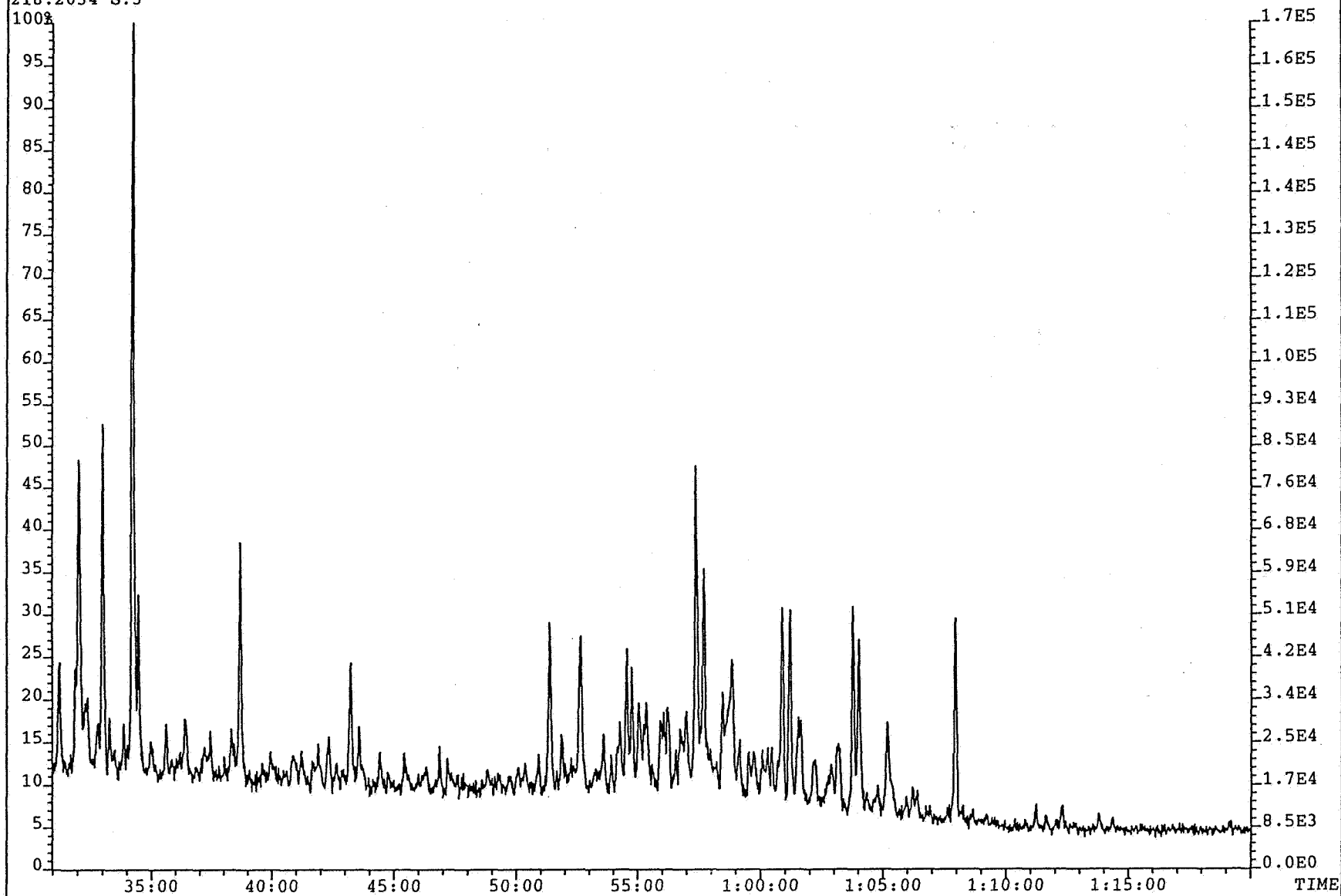
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
218.2034 S:3

Exp:SAT1



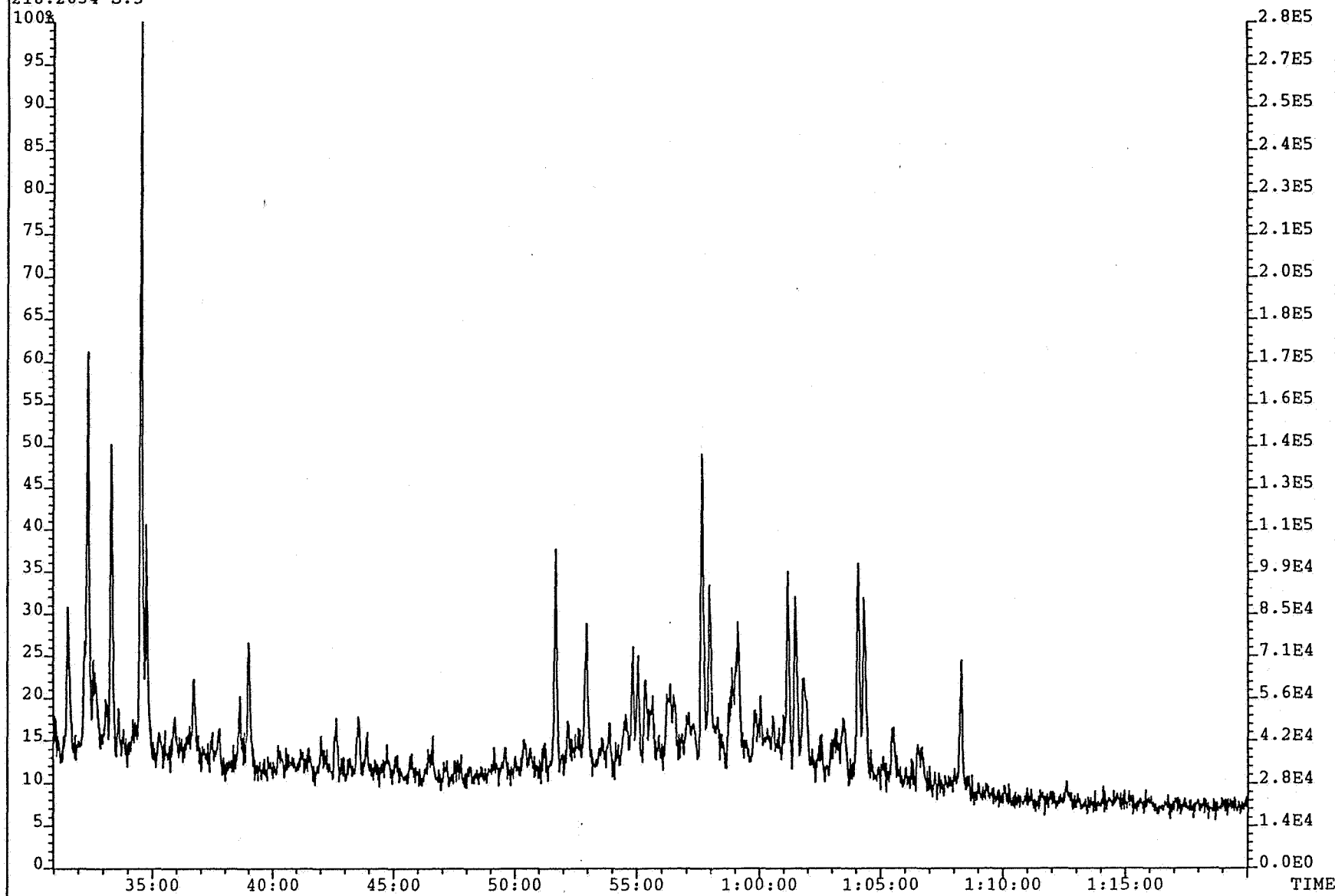
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
218.2034 S:5

Exp:SAT1



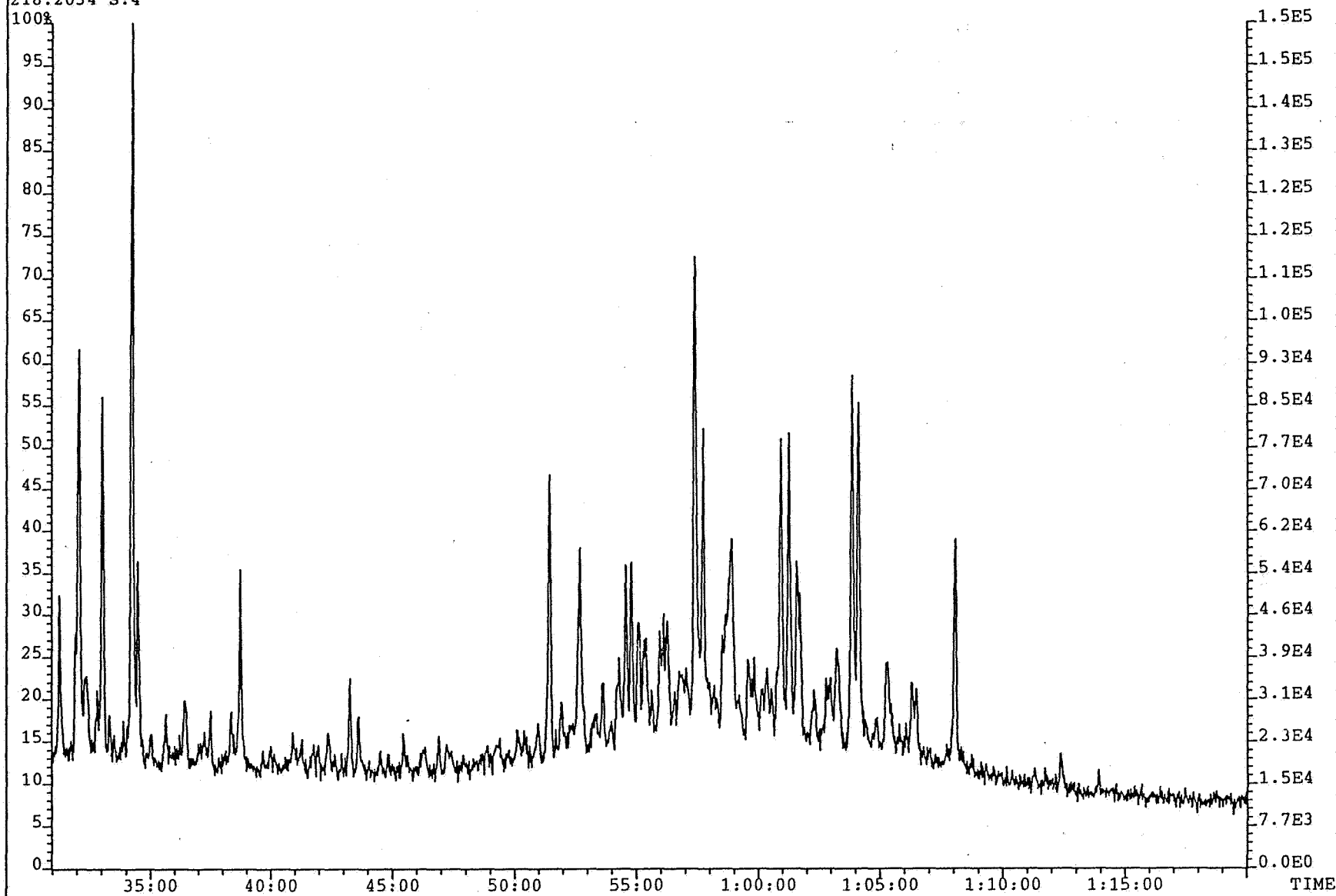
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
218.2034 S:4

Exp:SAT1



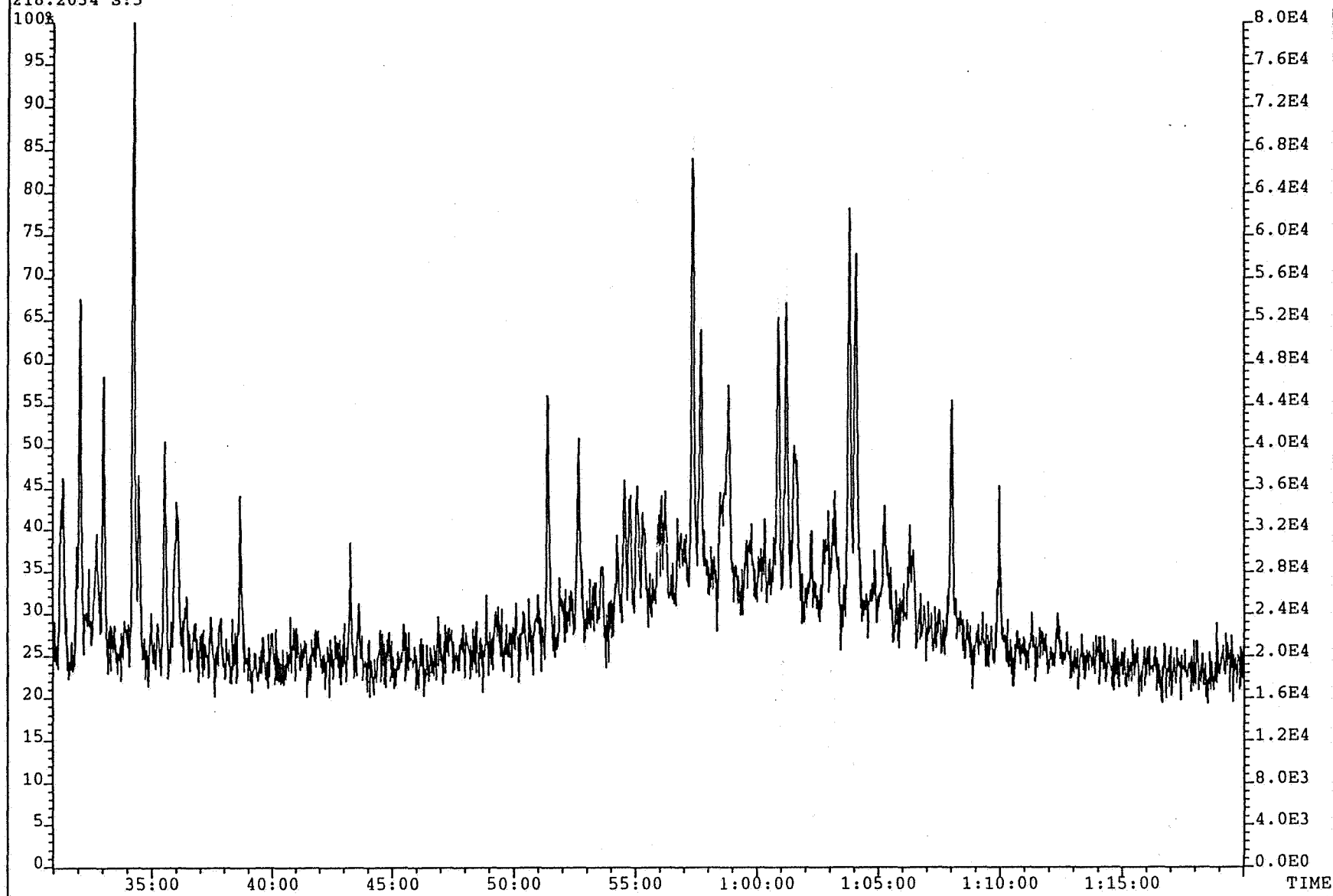
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
218.2034 S:5

Exp:SAT1



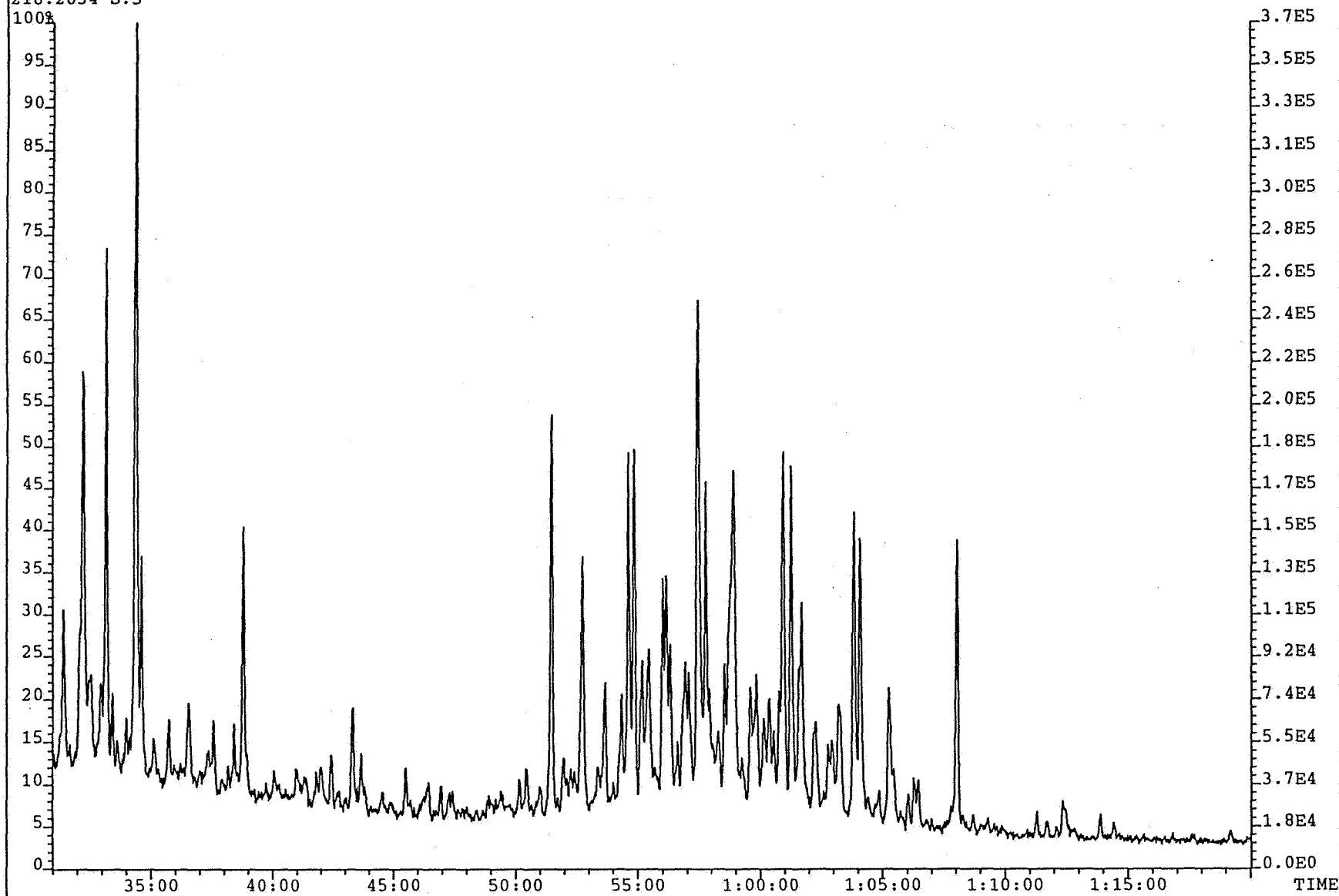
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
218.2034 S:5

Exp:SAT1



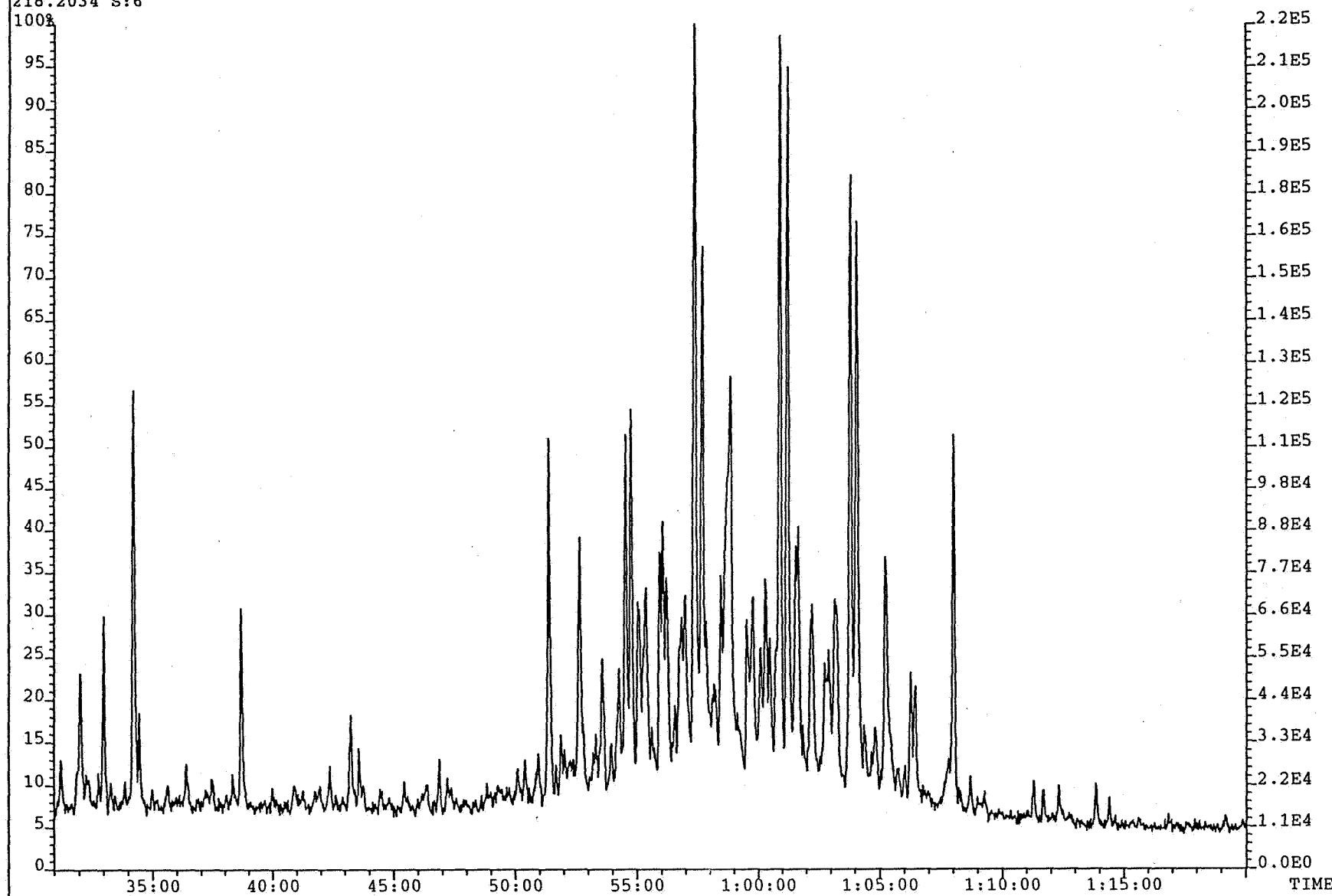
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
218.2034 S:6

Exp:SAT1

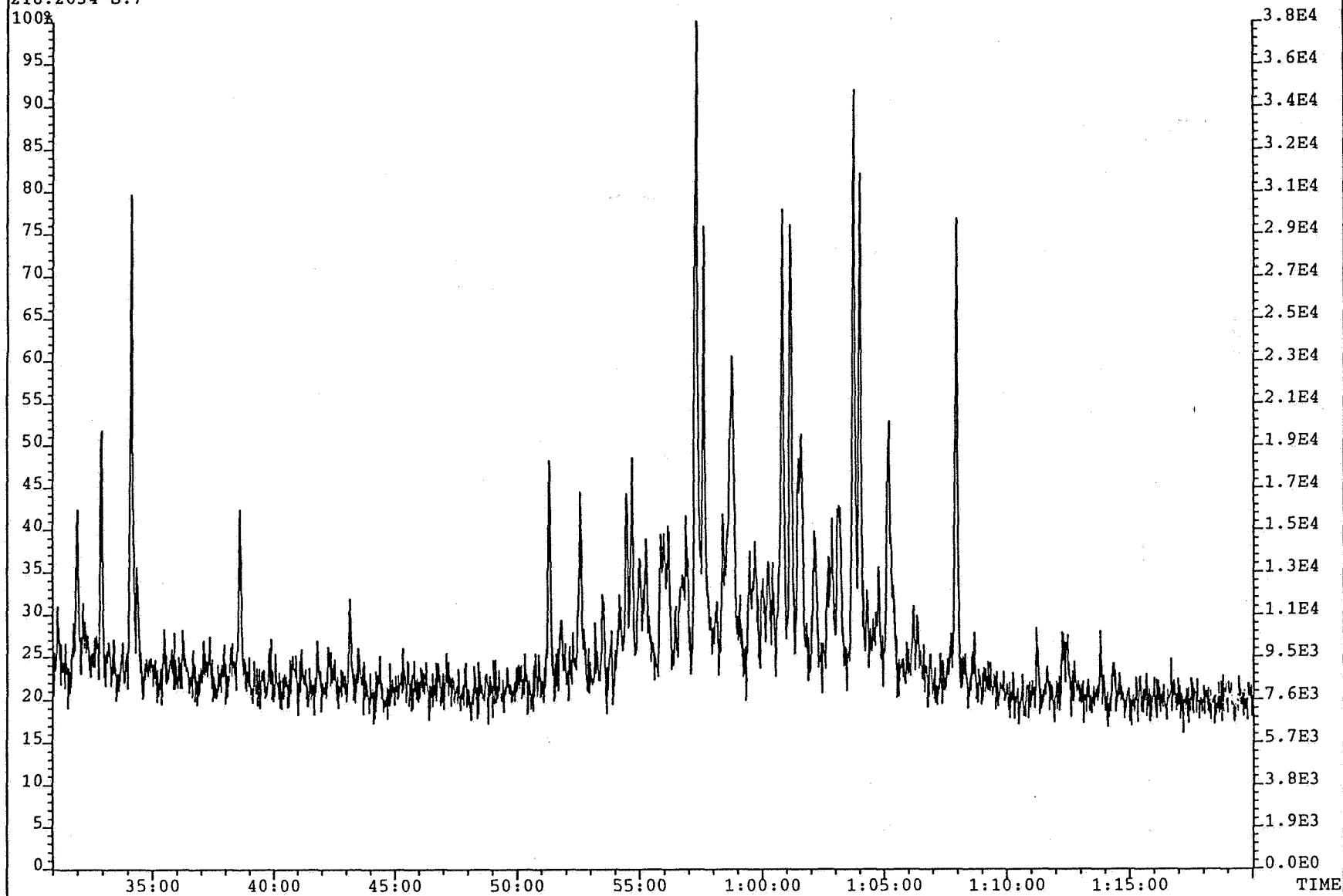


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
218.2034 S:7

Exp:SAT1



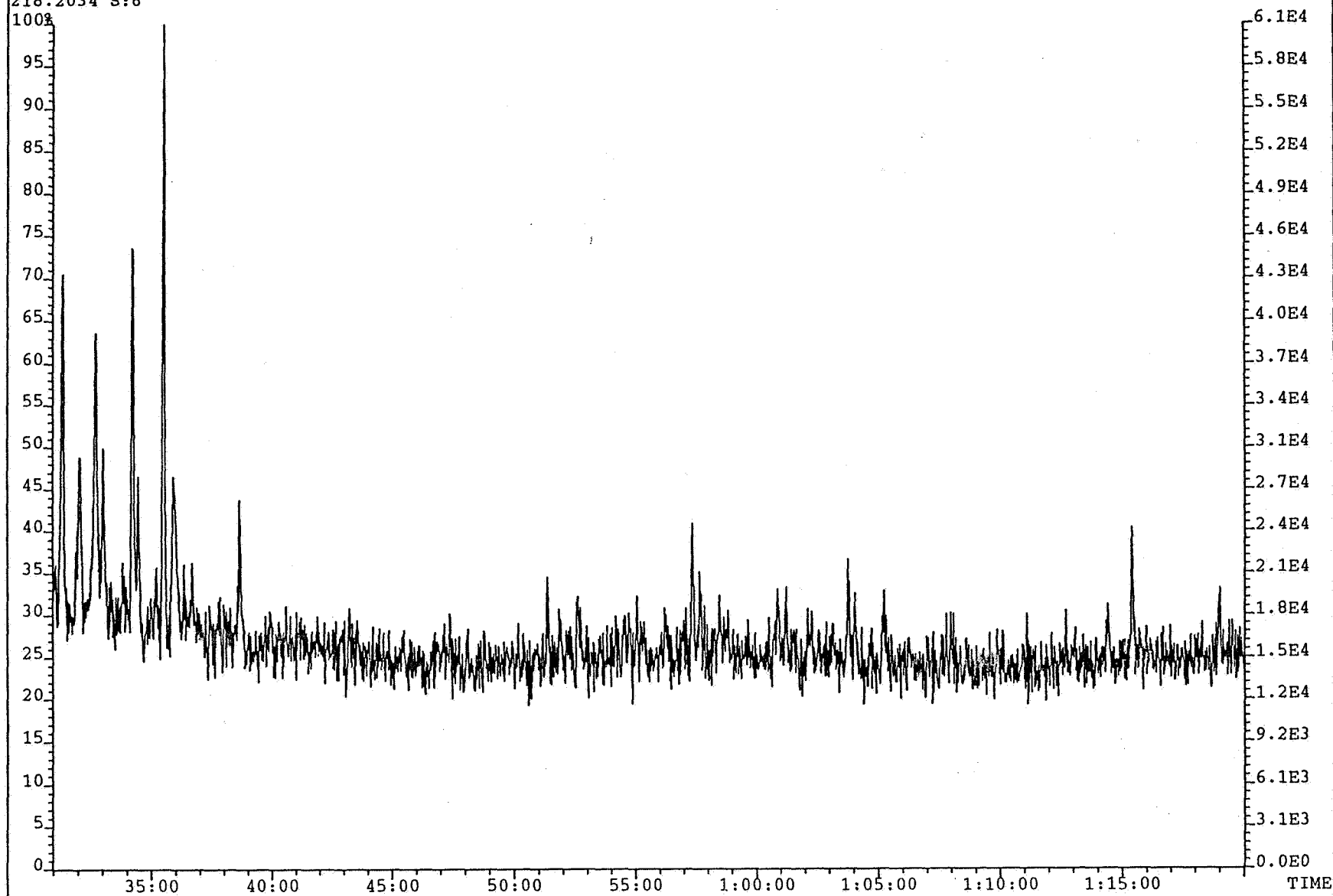
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
218.2034 S:6

Exp:SAT1



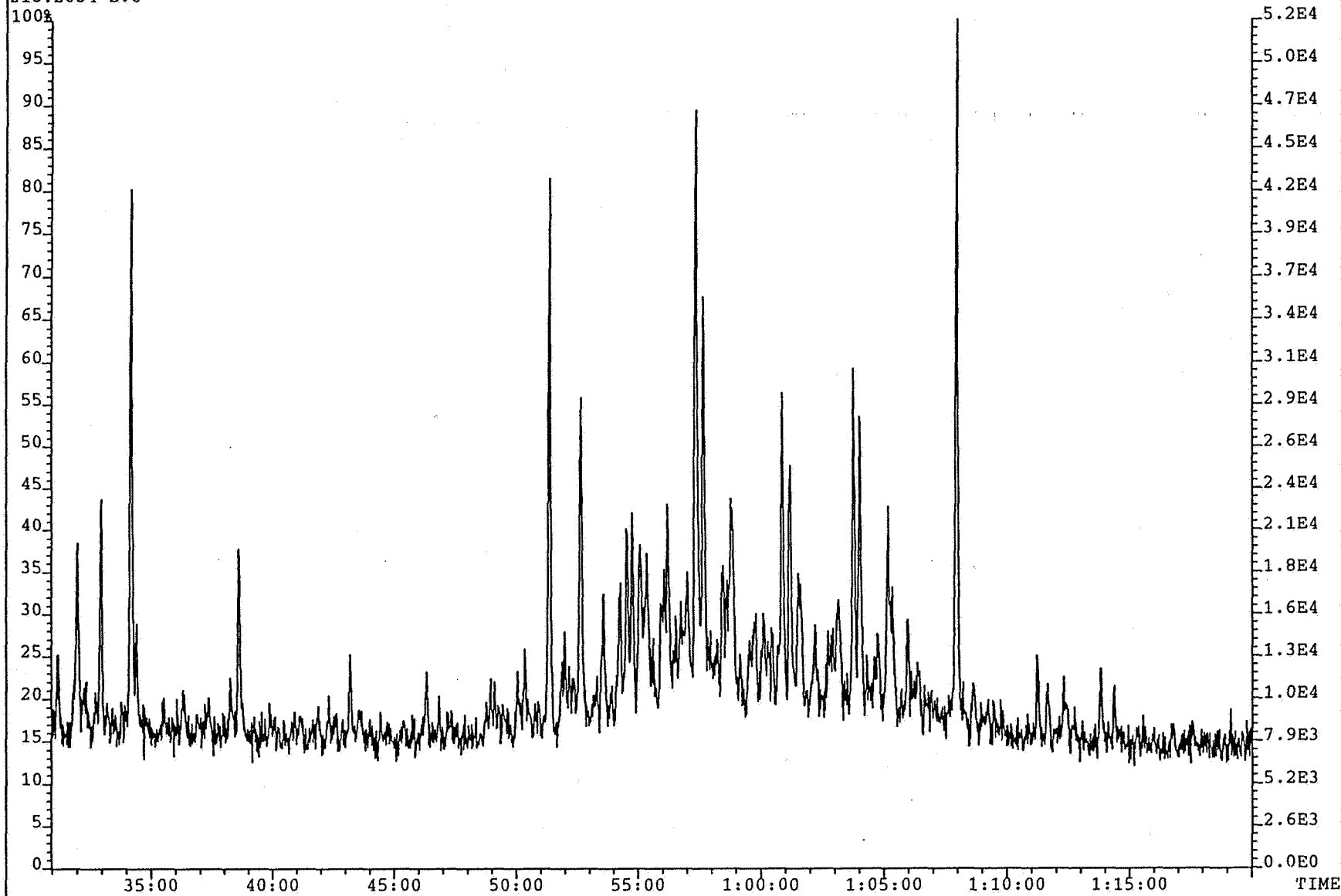
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
218.2034 S:8

Exp:SAT1



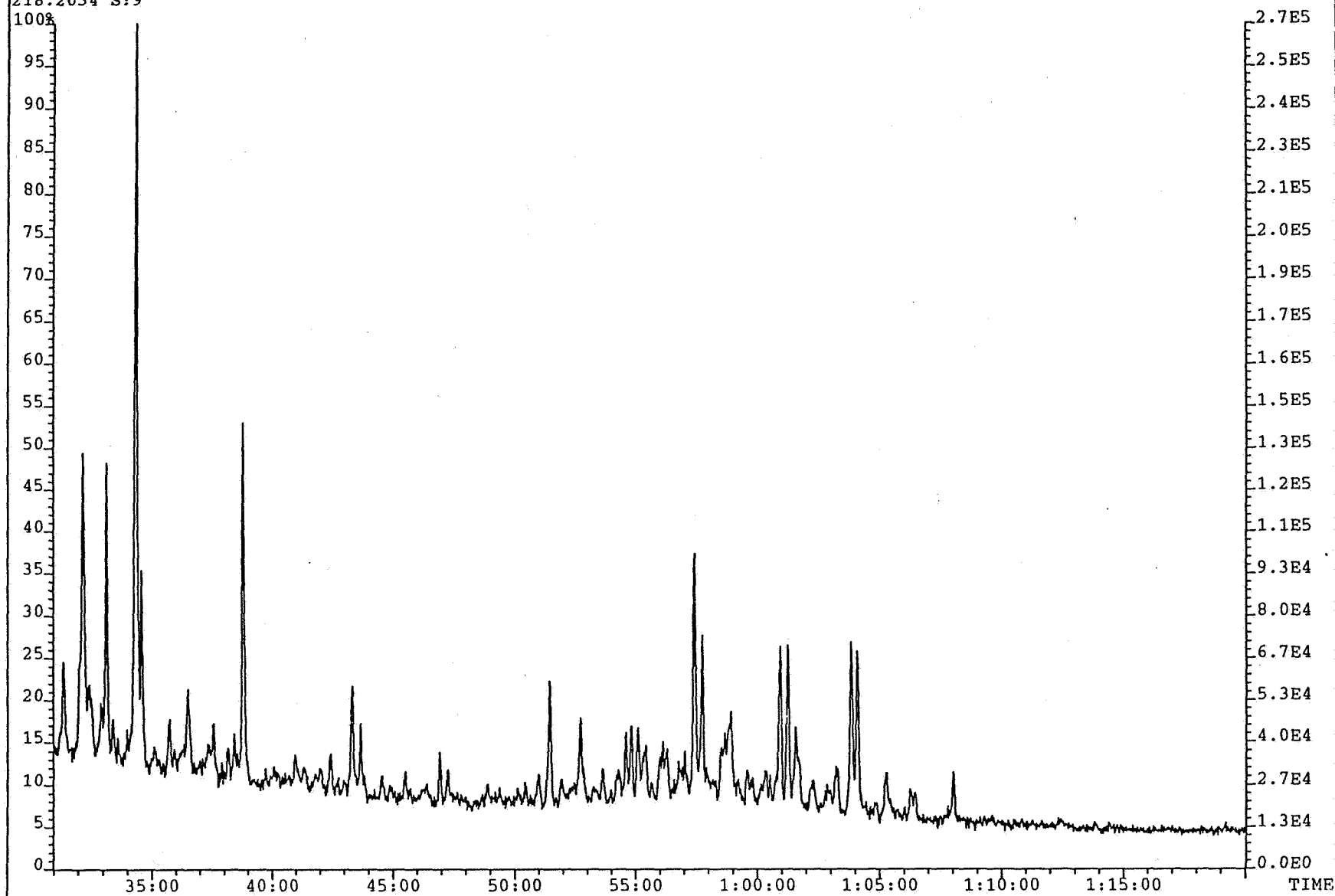
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
218.2034 S:9

Exp:SAT1



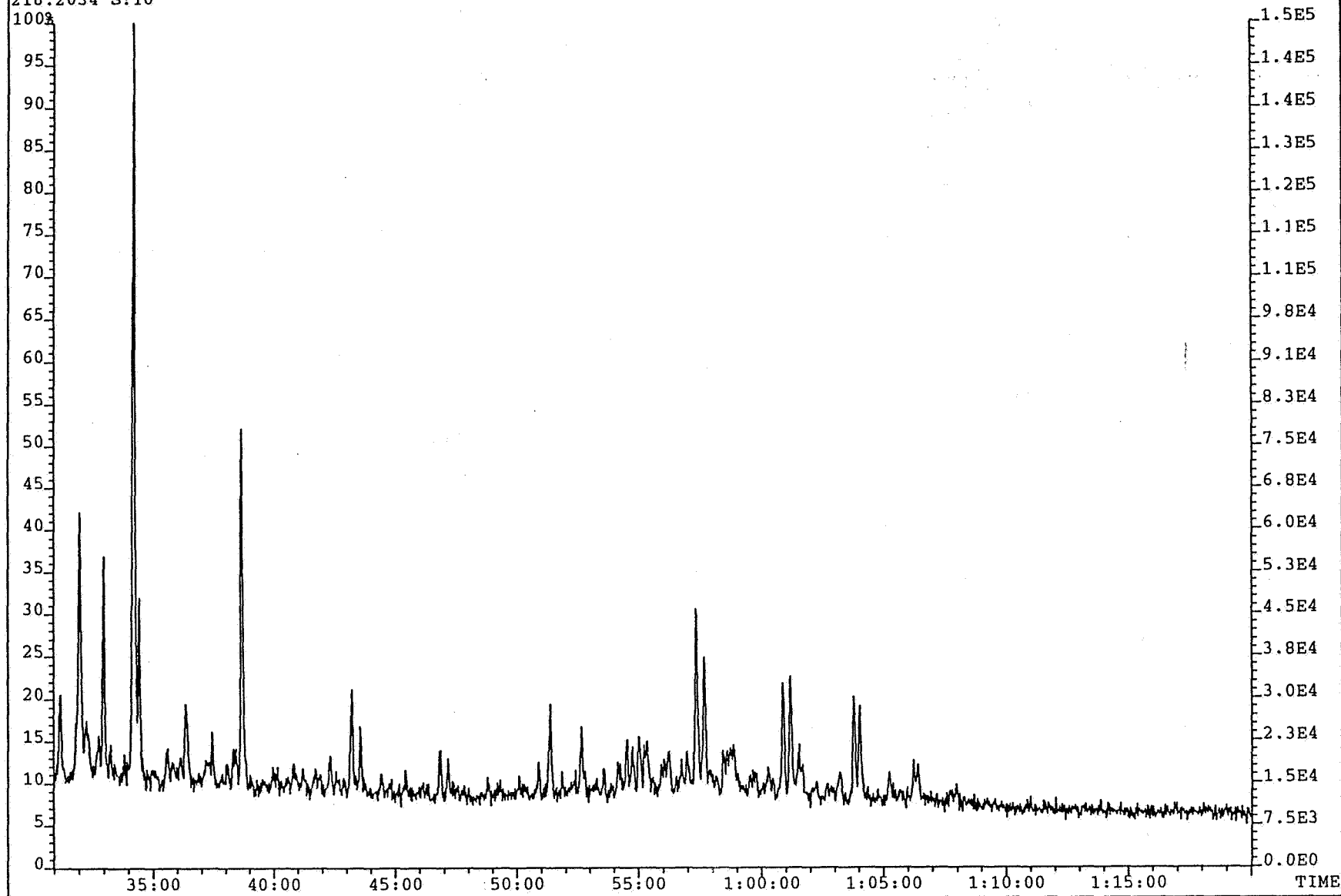
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
218.2034 S:10

Exp: SAT1



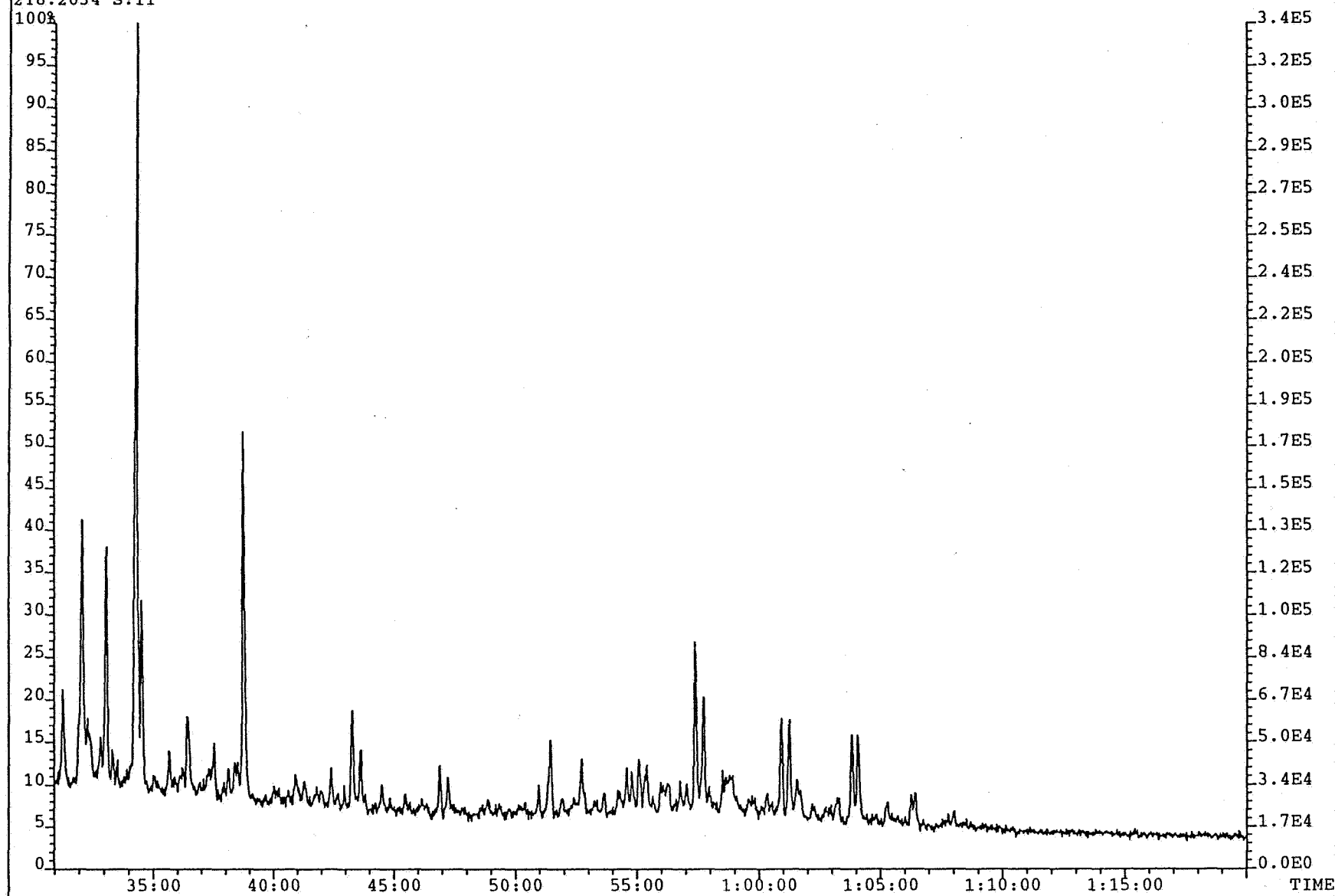
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
218.2034 S:11

Exp:SAT1



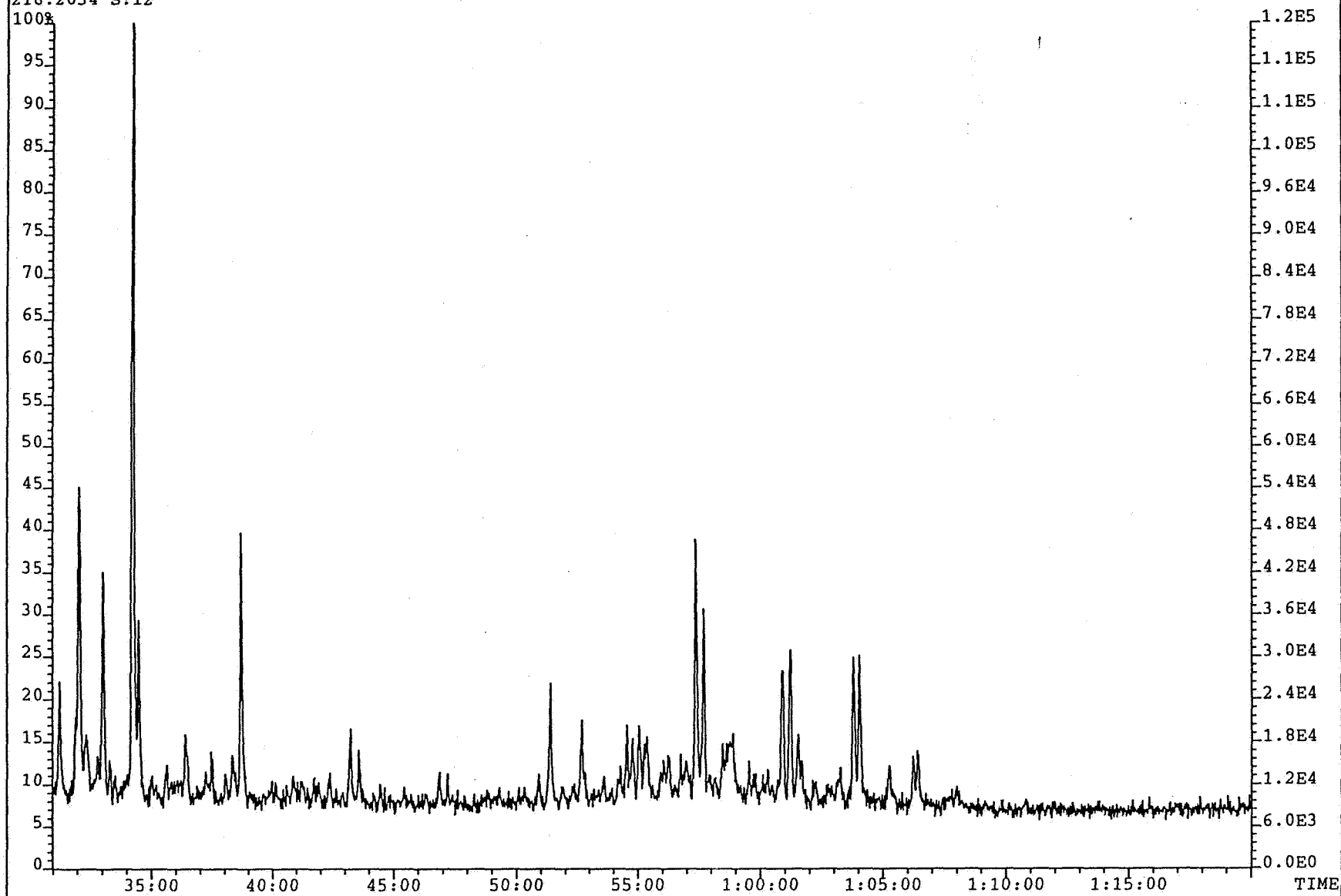
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
218.2034 S:12

EXP:SAT1



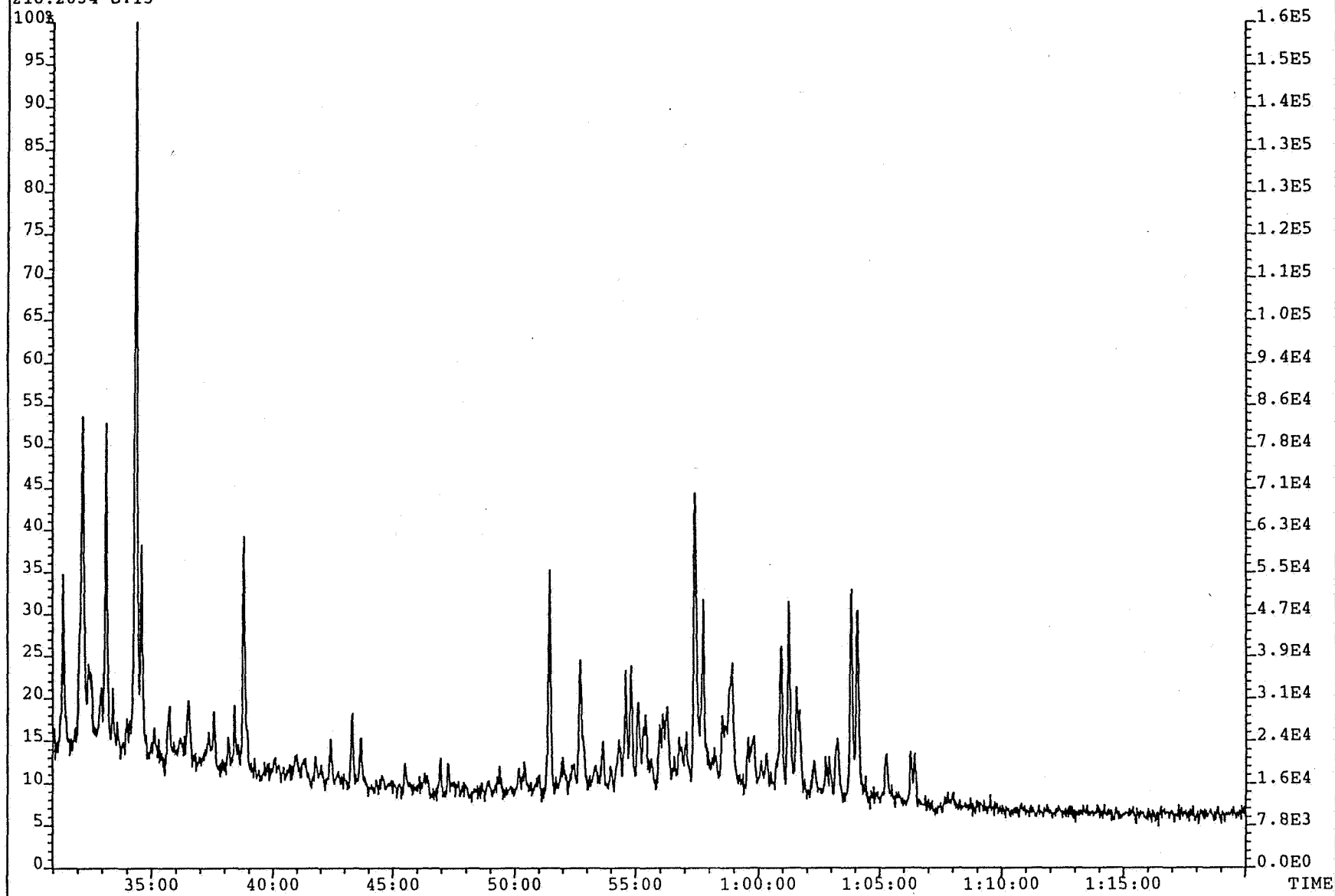
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
218.2034 S:13

Exp:SAT1

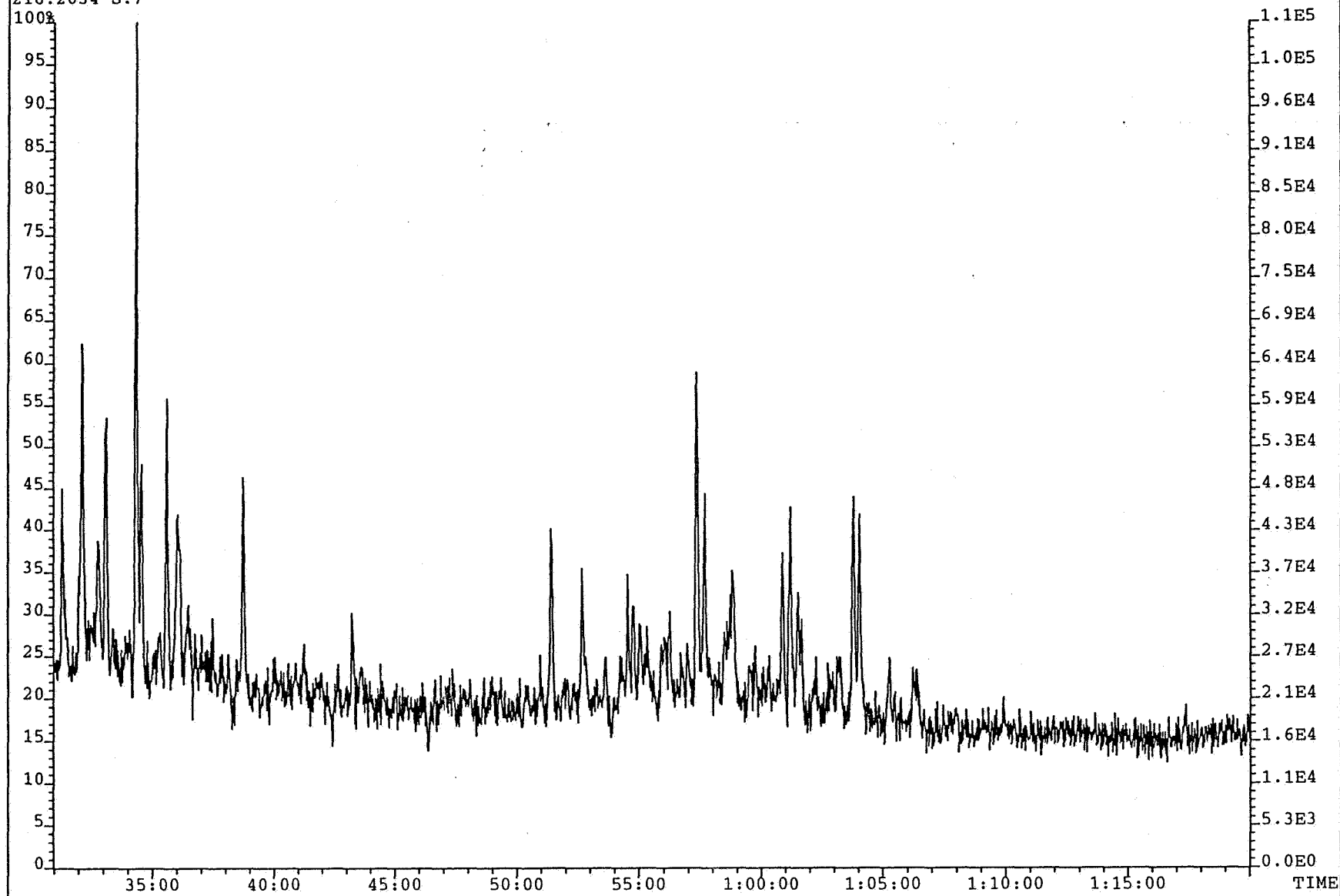


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
218.2034 S:7

Exp: SAT1



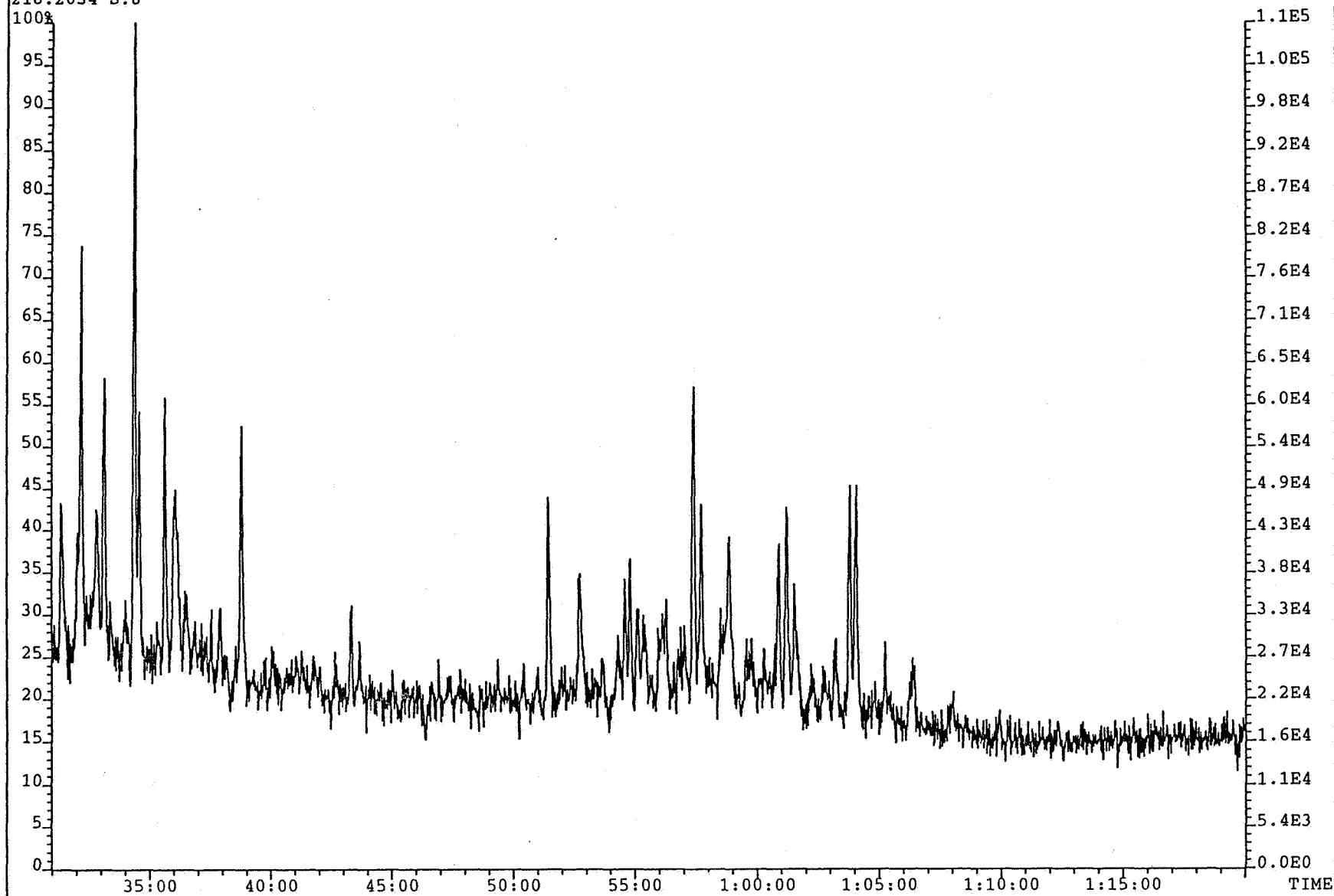
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
218.2034 S:8

Exp:SAT1

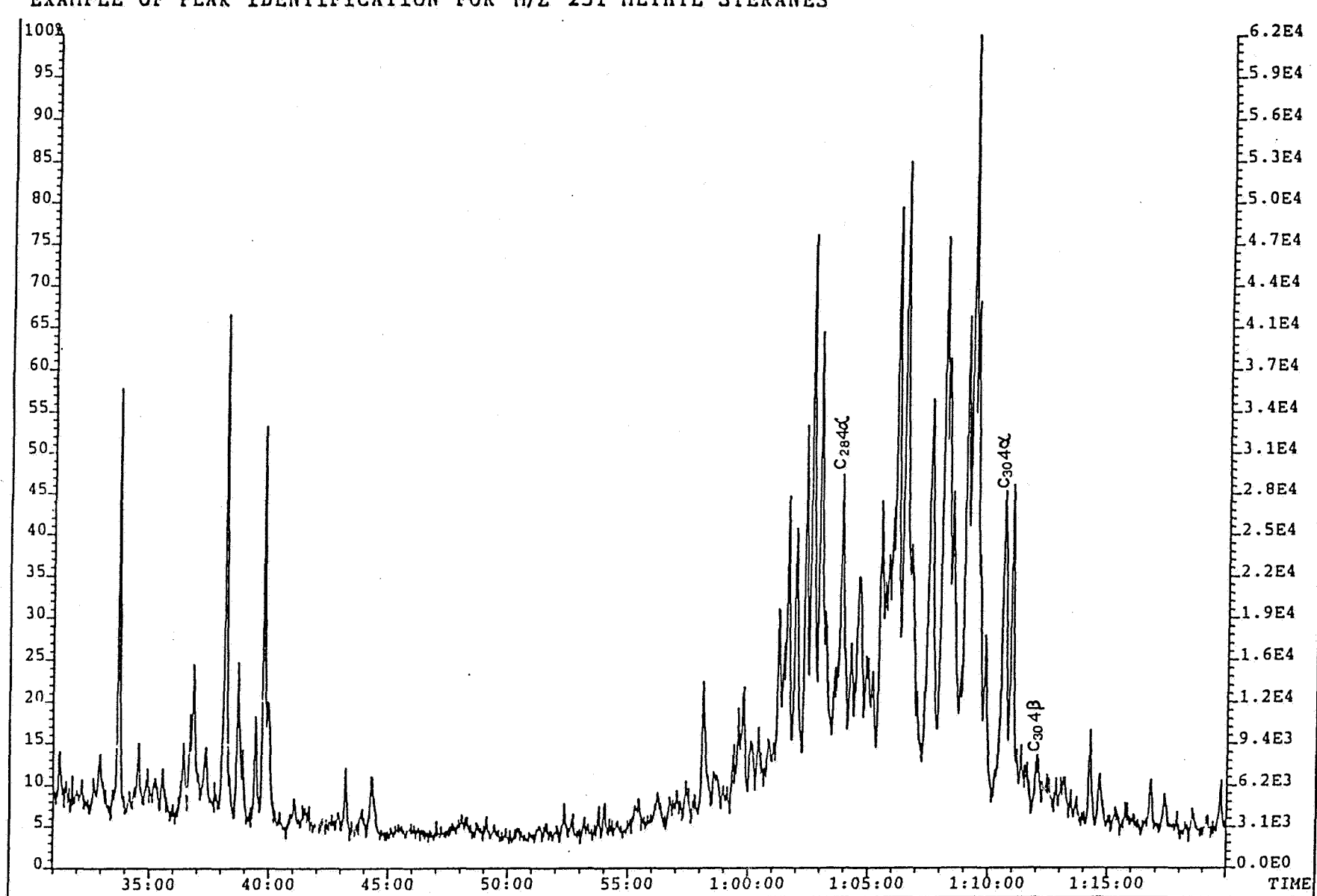


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GEOLAB  NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 231 METHYL STERANES



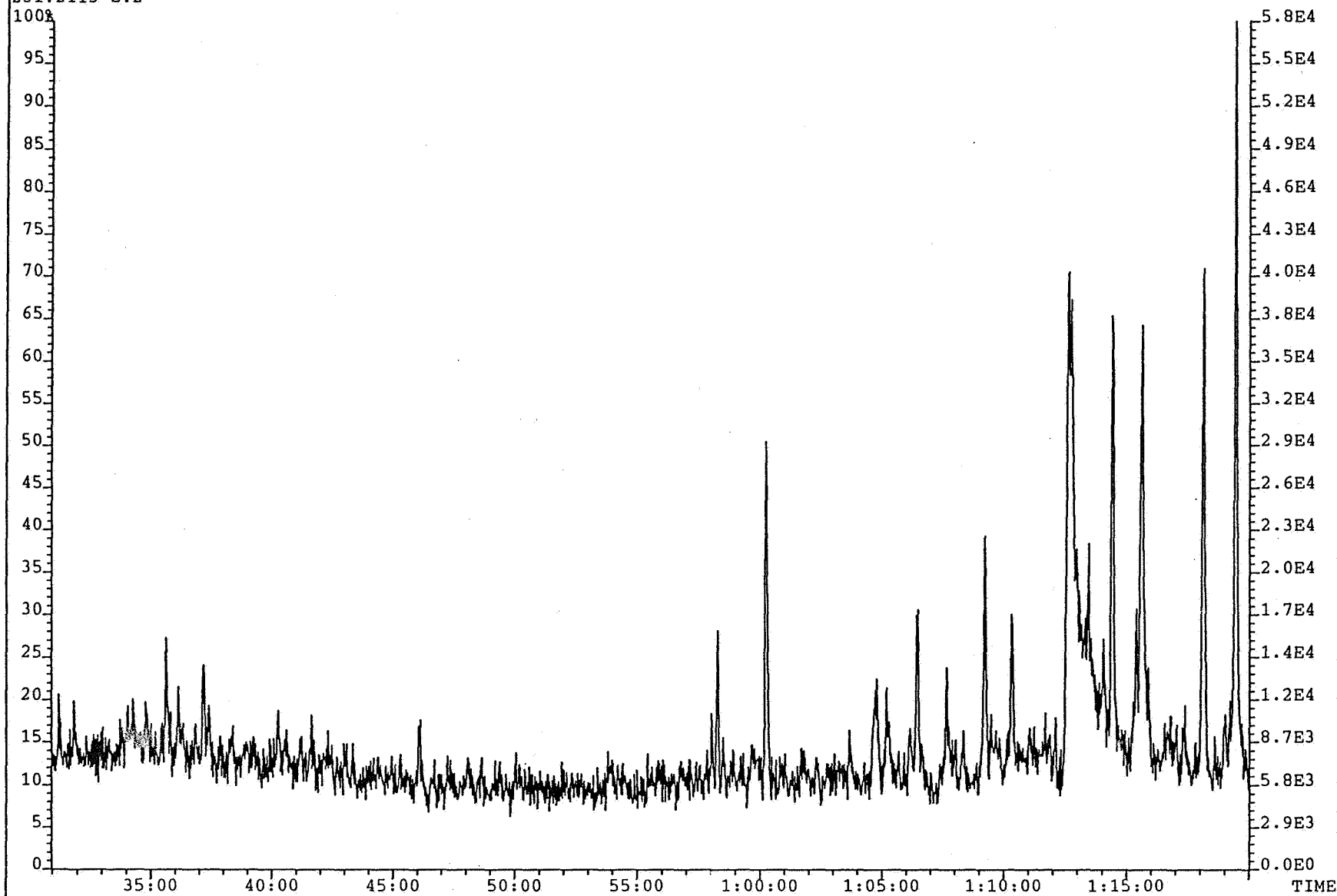
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4340 Acq:4-JAN-91 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
231.2113 S:2

Exp:SAT1



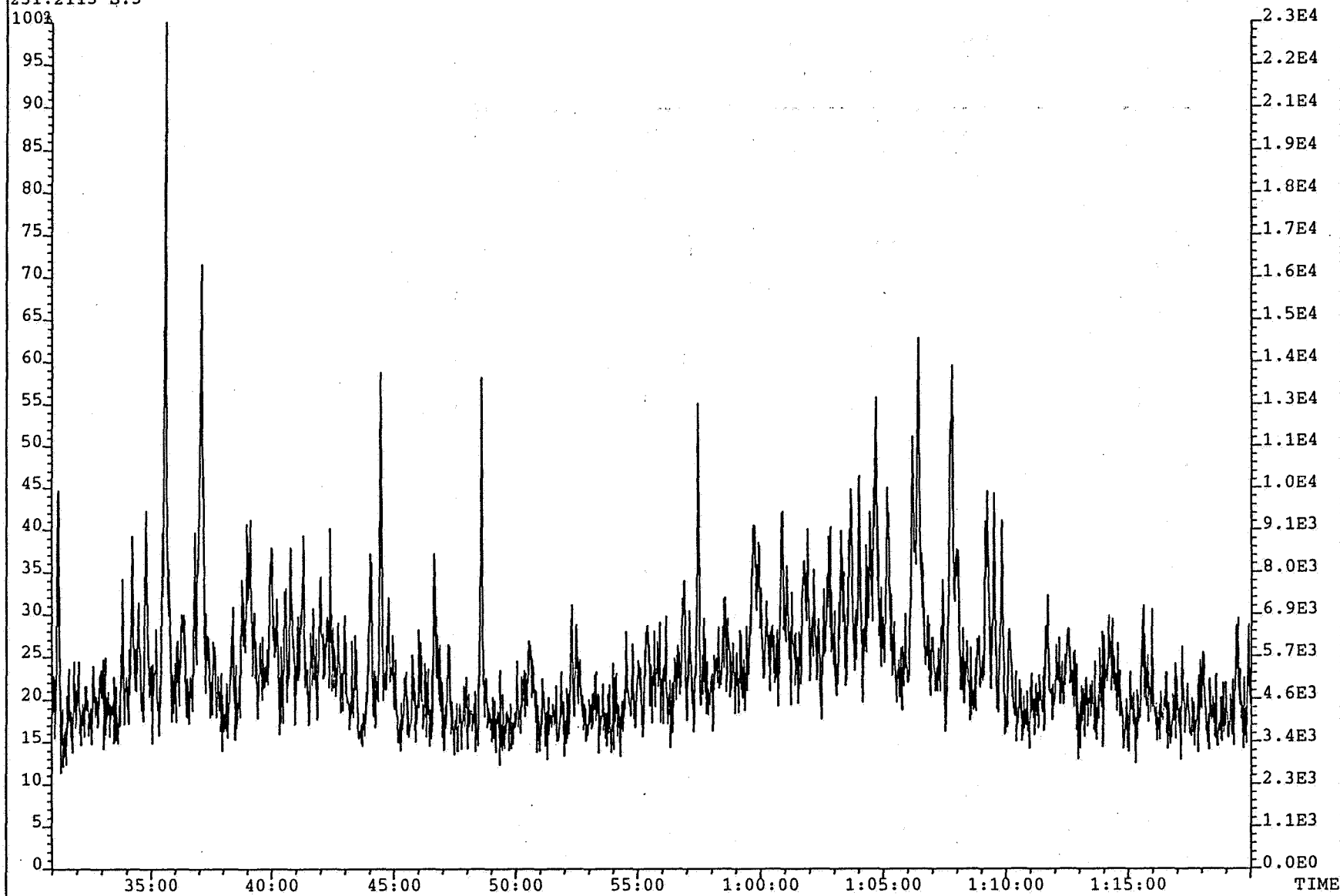
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
231.2113 S:3

Exp:SAT1



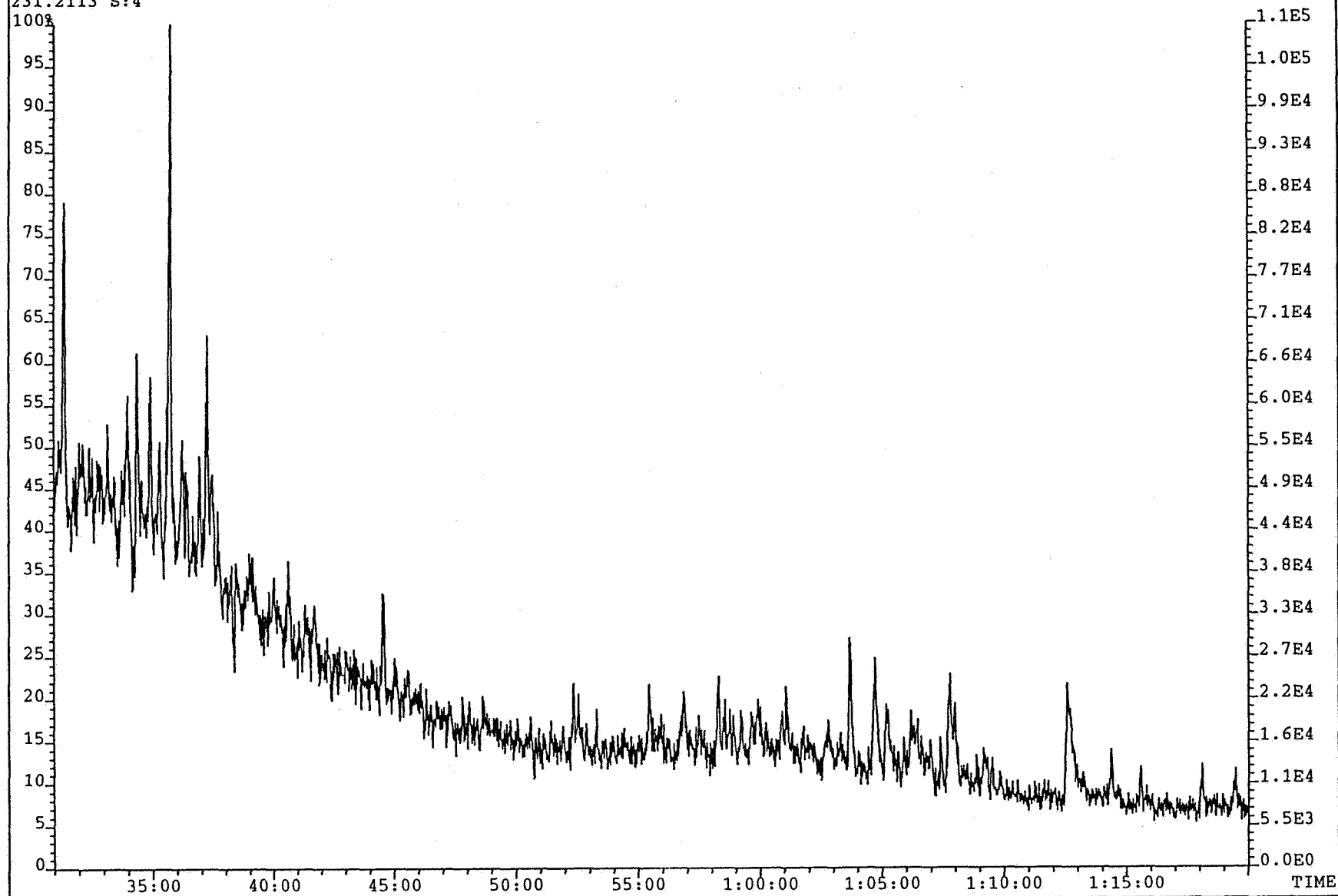
Schlumberger

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GEOLAB  NOR

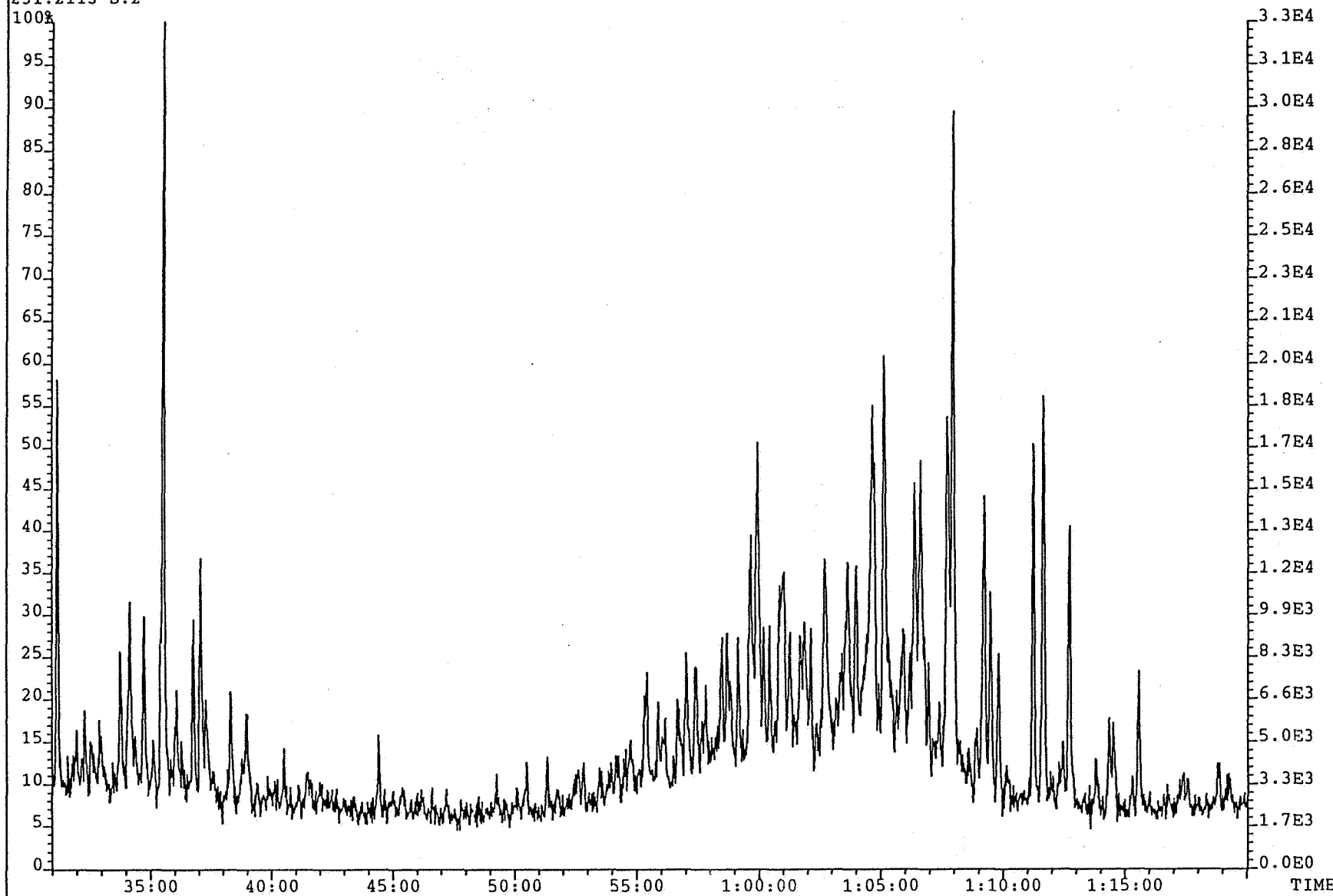
File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
231.2113 S:4

Exp:SAT1



File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
231.2113 S:2

Exp:SAT1

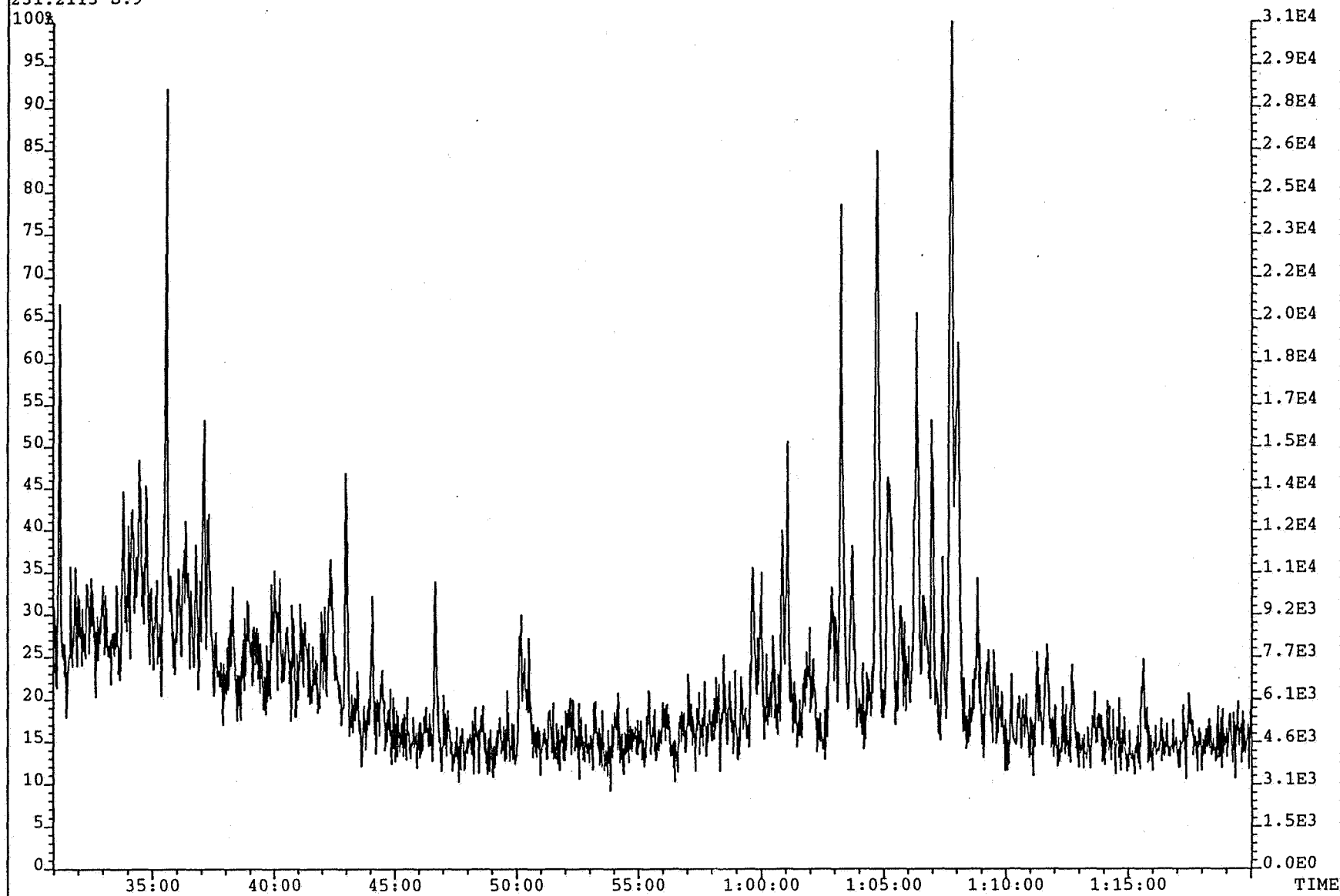


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
231.2113 S:9

Exp: SAT1.



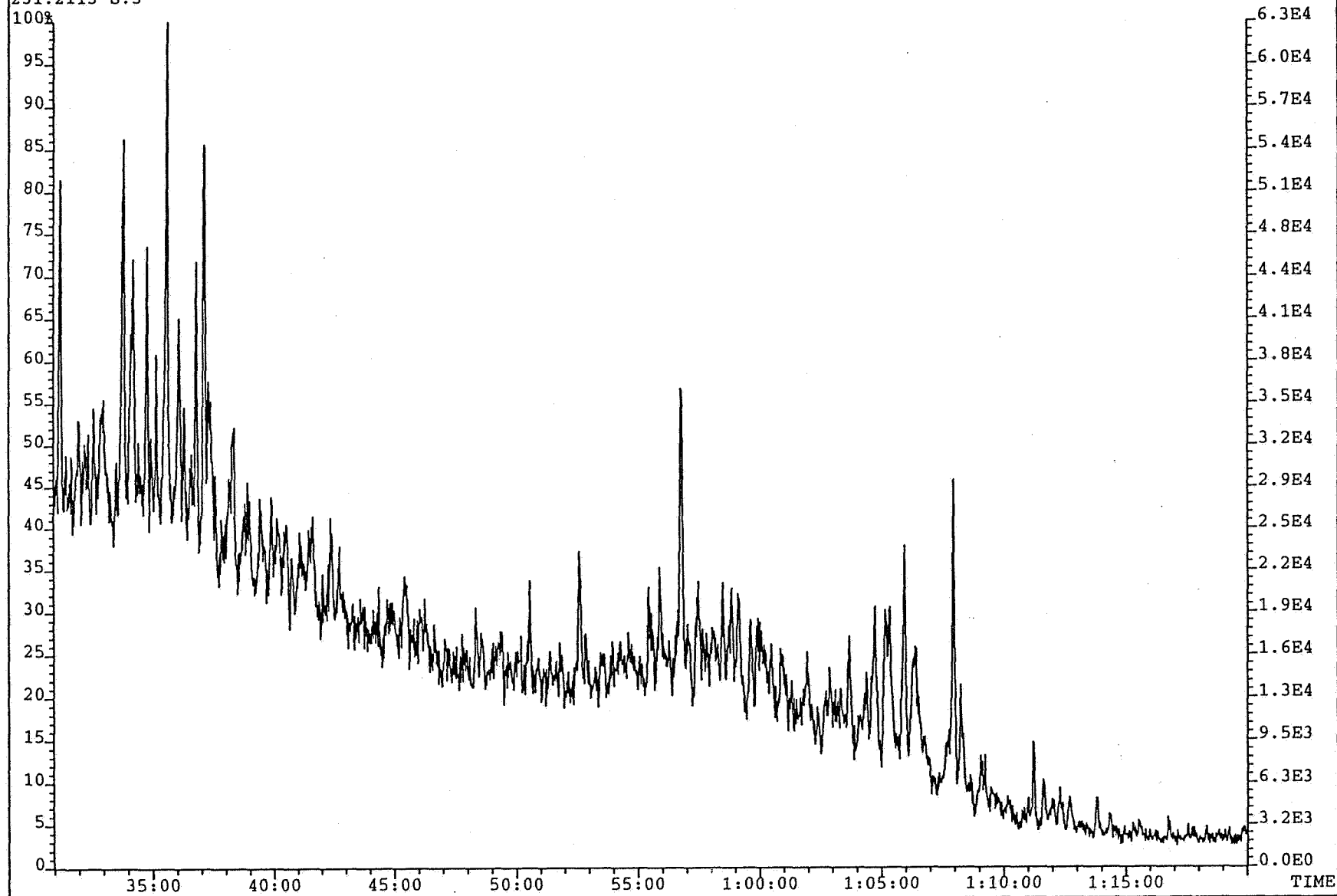
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
231.2113 S:3

Exp:SAT1

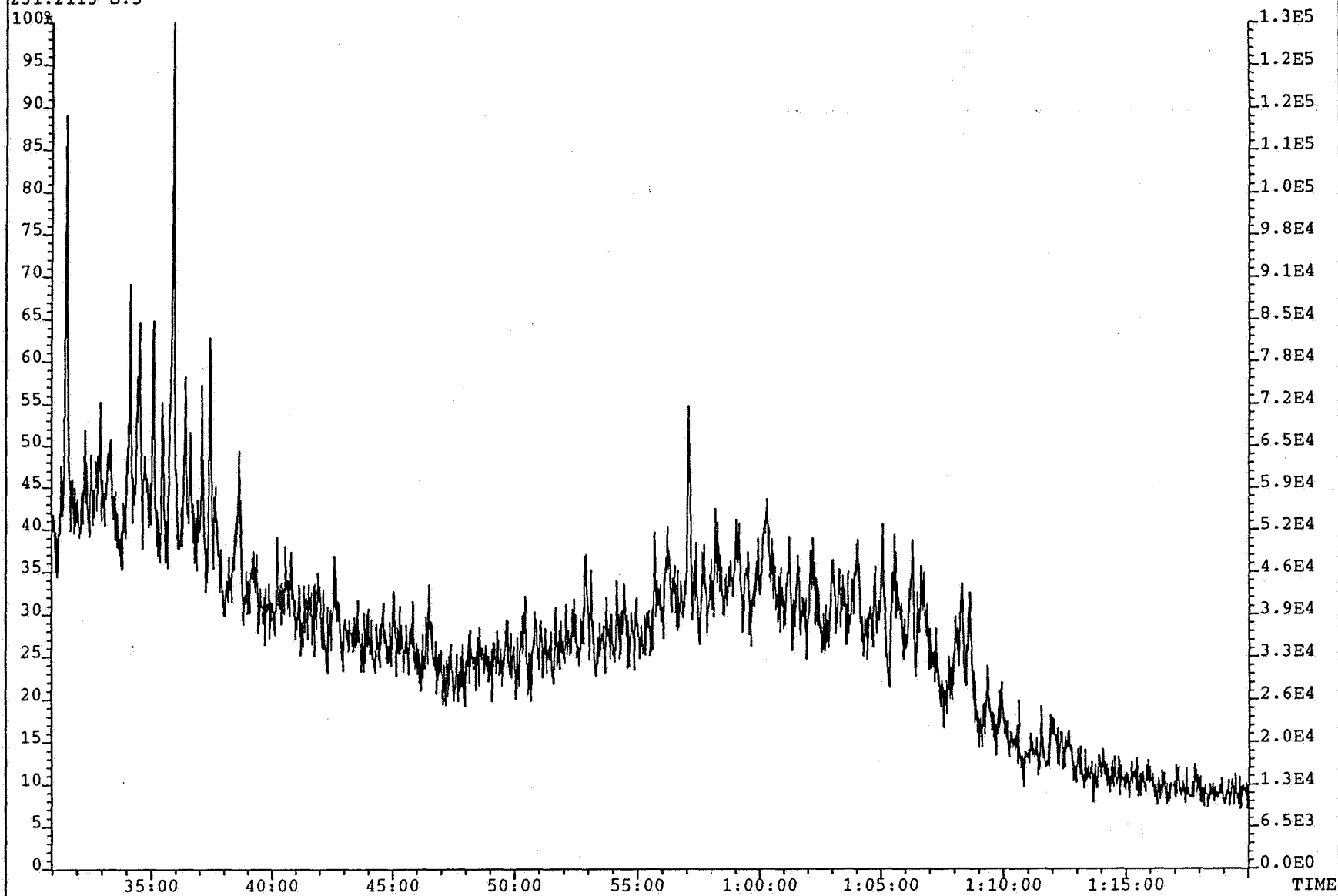


Schlumberger GECO-PRAKLA

GEOLAB  NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
231.2113 S:5

Exp:SAT1



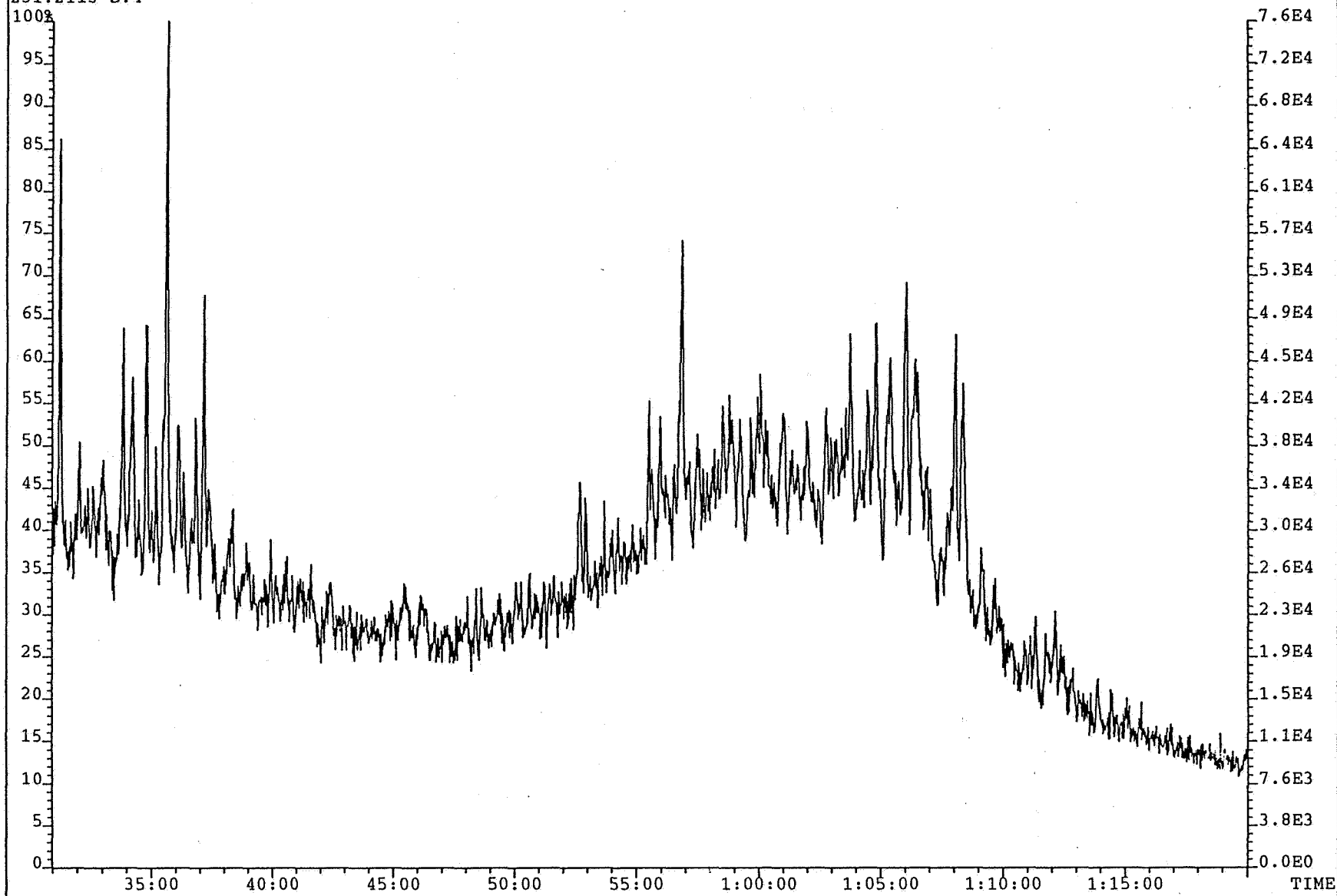
Schlumberger

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GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
231.2113 S:4

Exp:SAT1



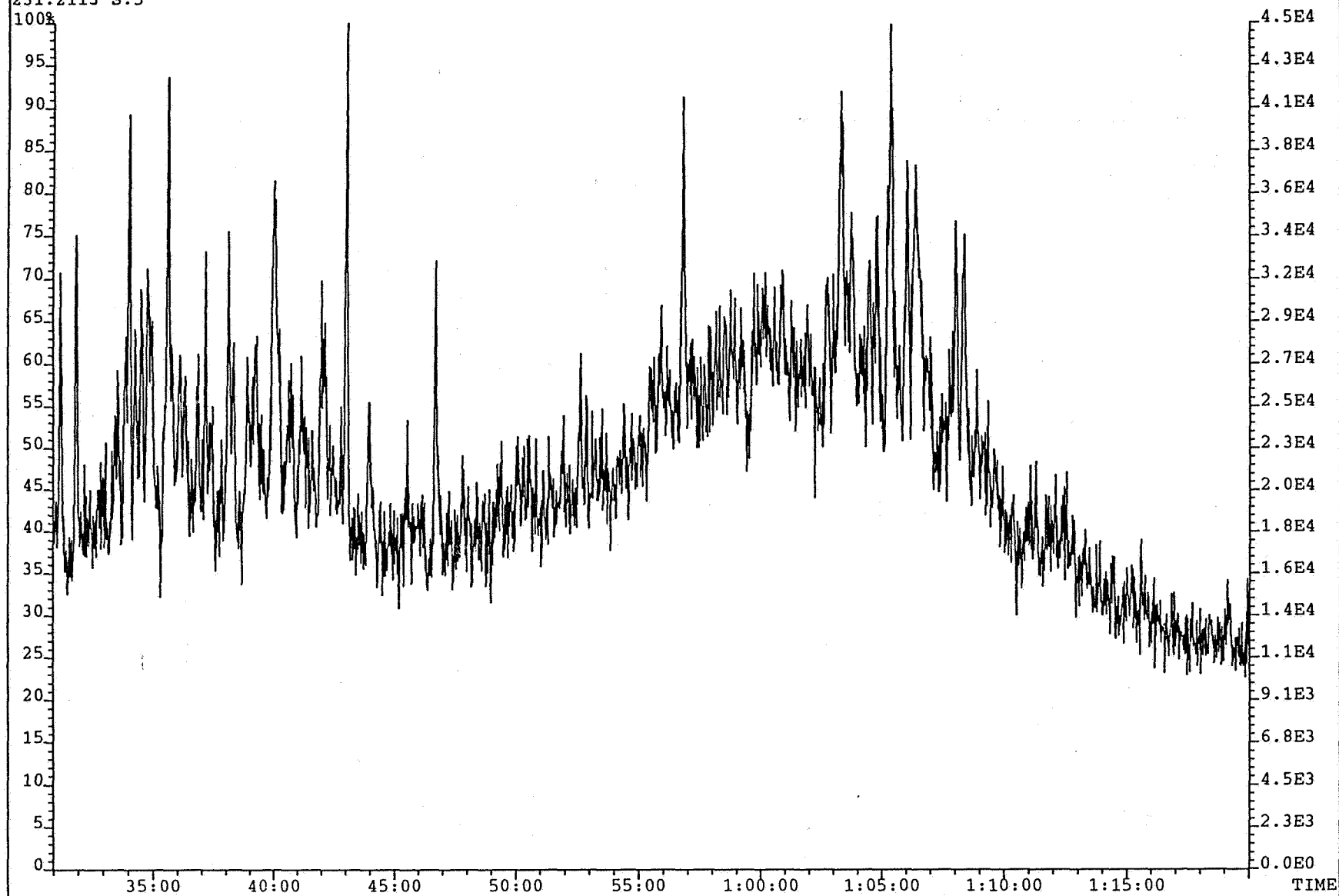
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
231.2113 S:5

Exp:SAT1



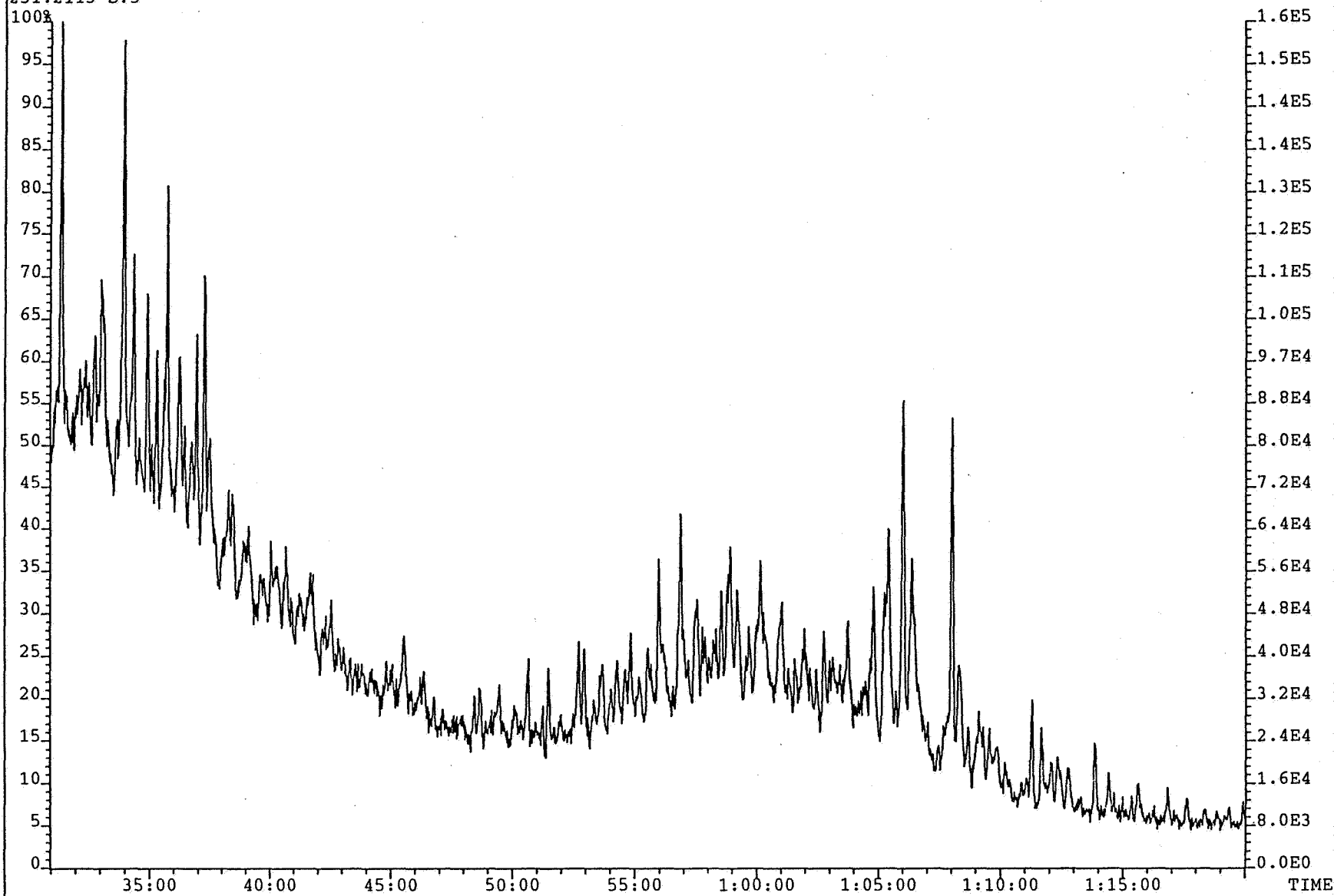
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
231.2113 S:5

Exp:SAT1

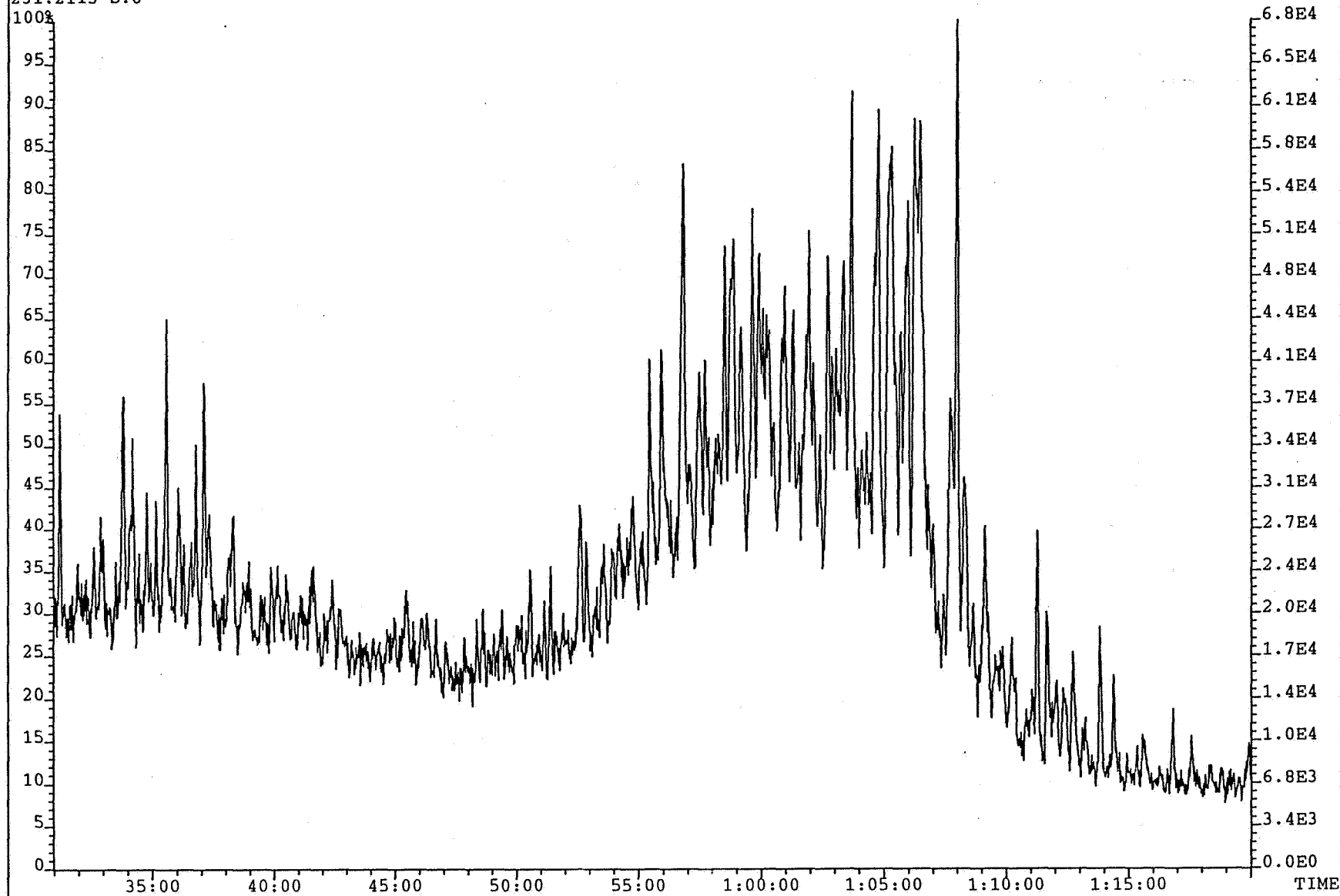


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
231.2113 S:6

Exp:SAT1



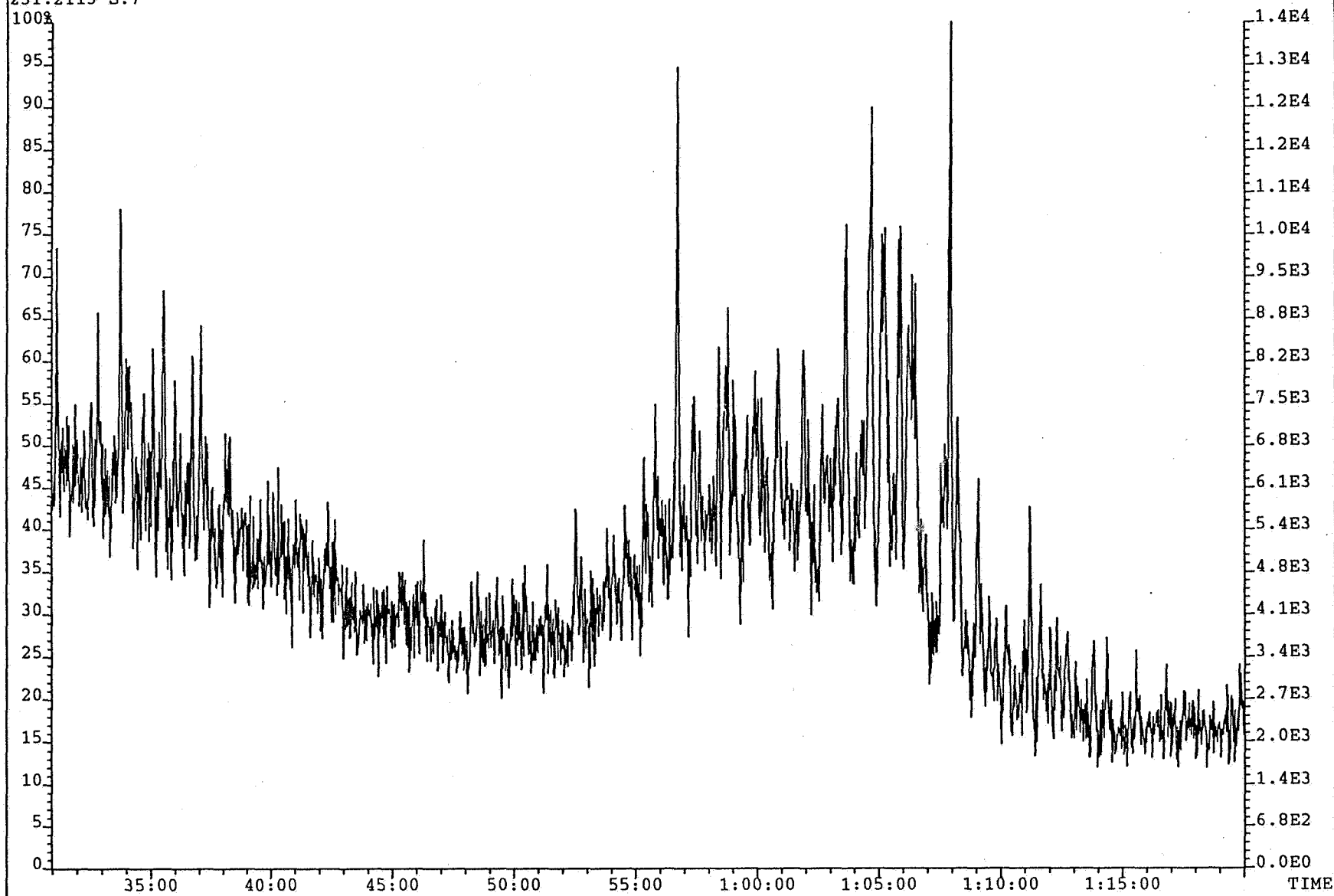
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
231.2113 S:7

Exp:SAT1



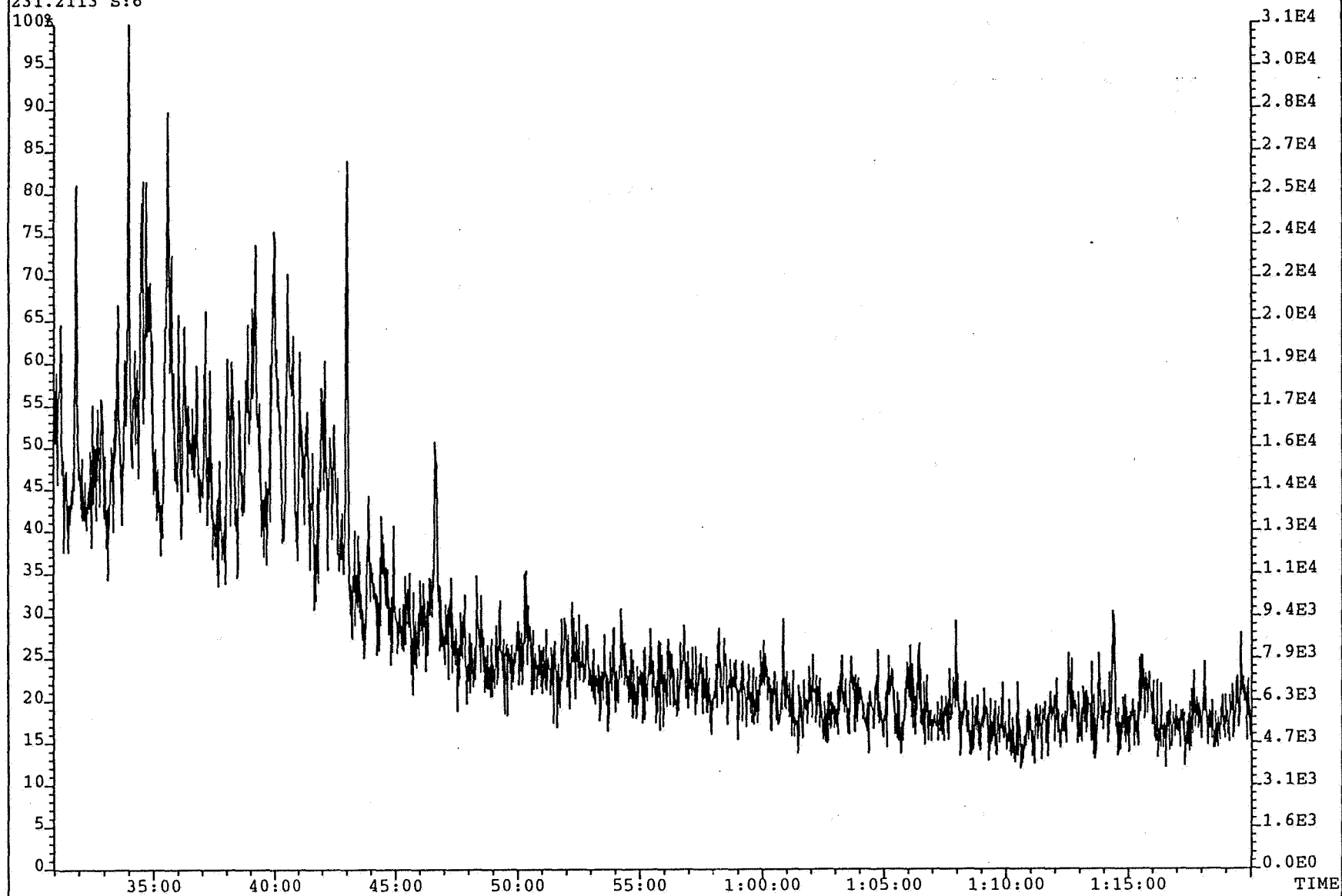
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
231.2113 S:6

Exp:SAT1



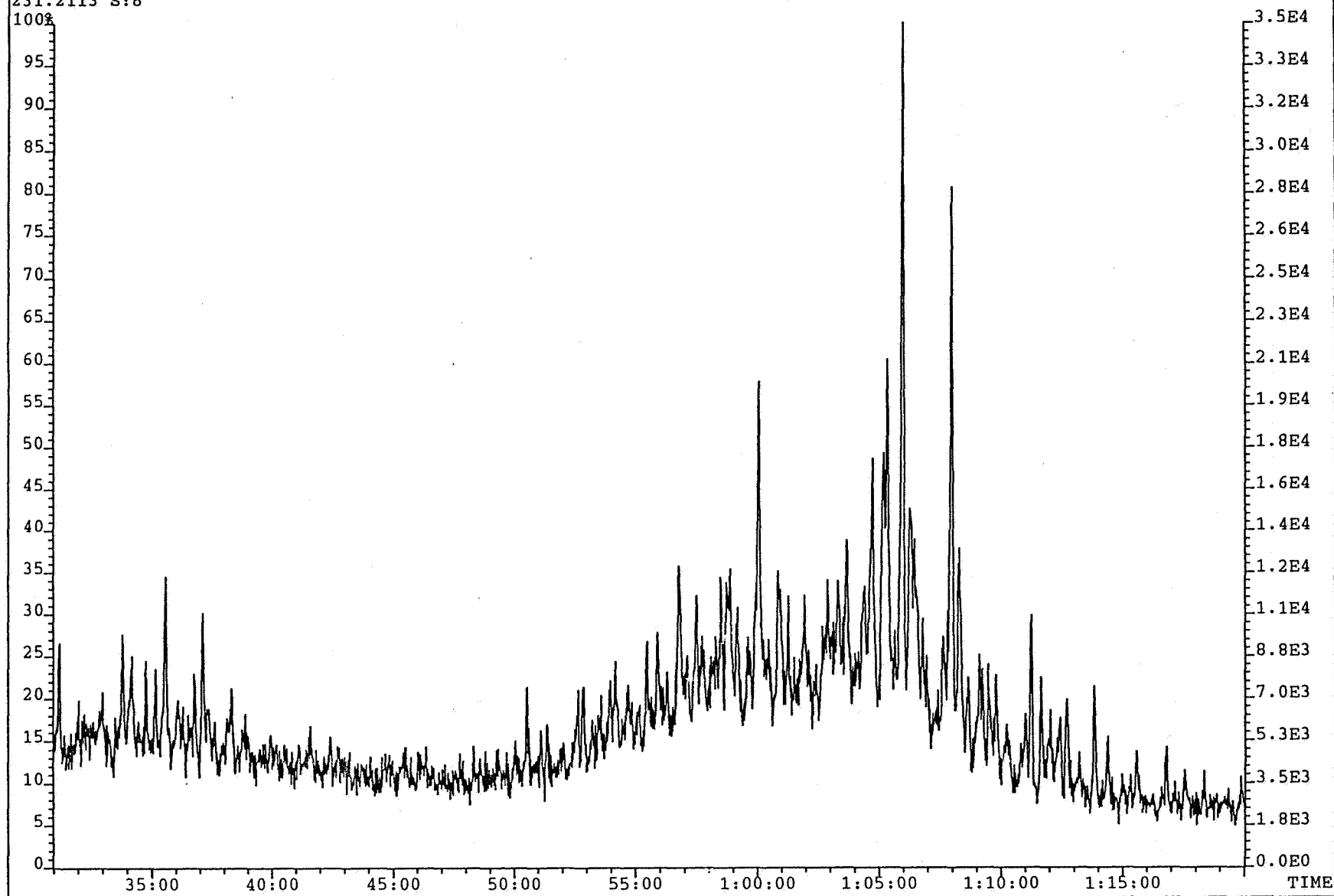
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
231.2113 S:8

Exp:SAT1



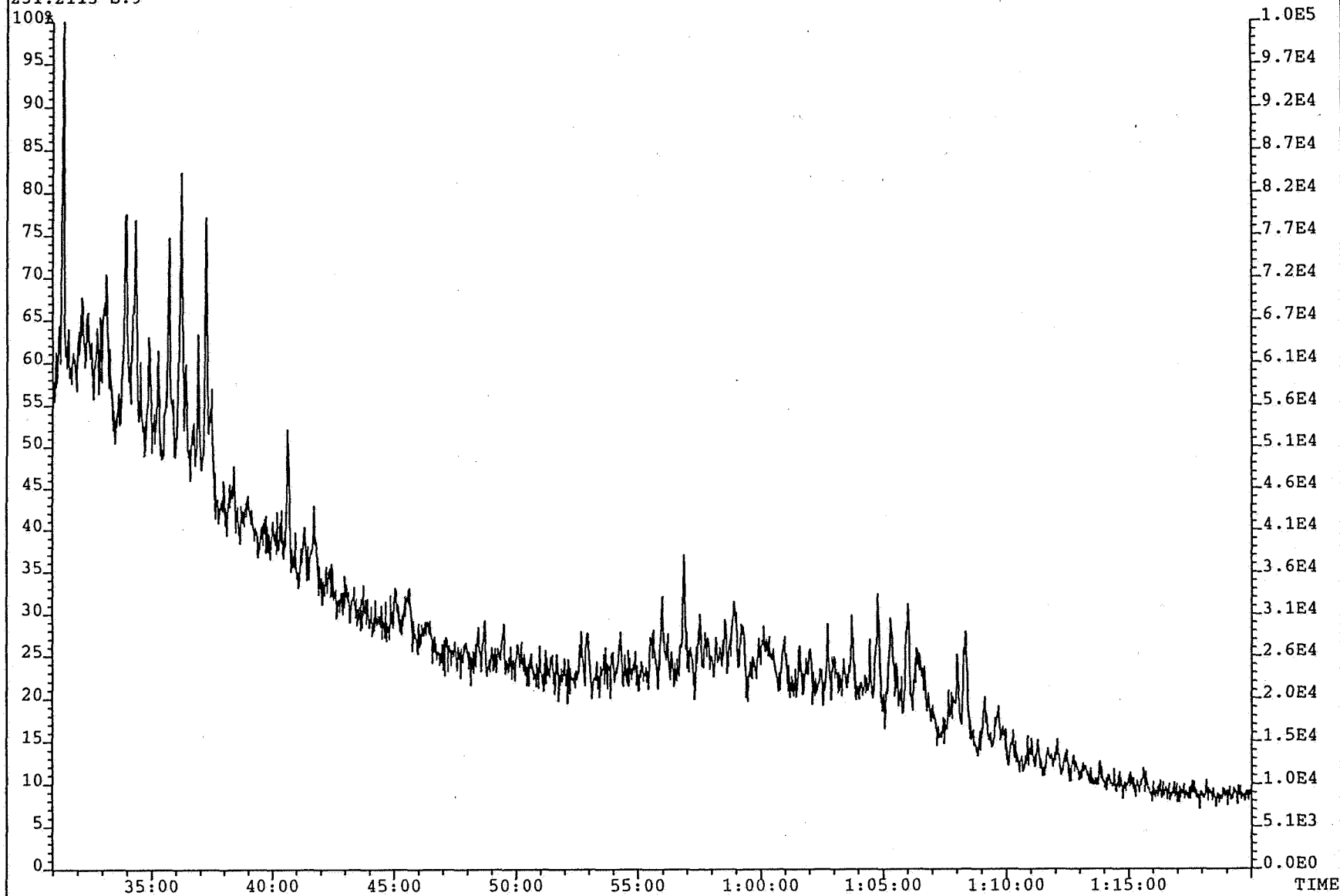
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
231.2113 S:9

Exp:SAT1



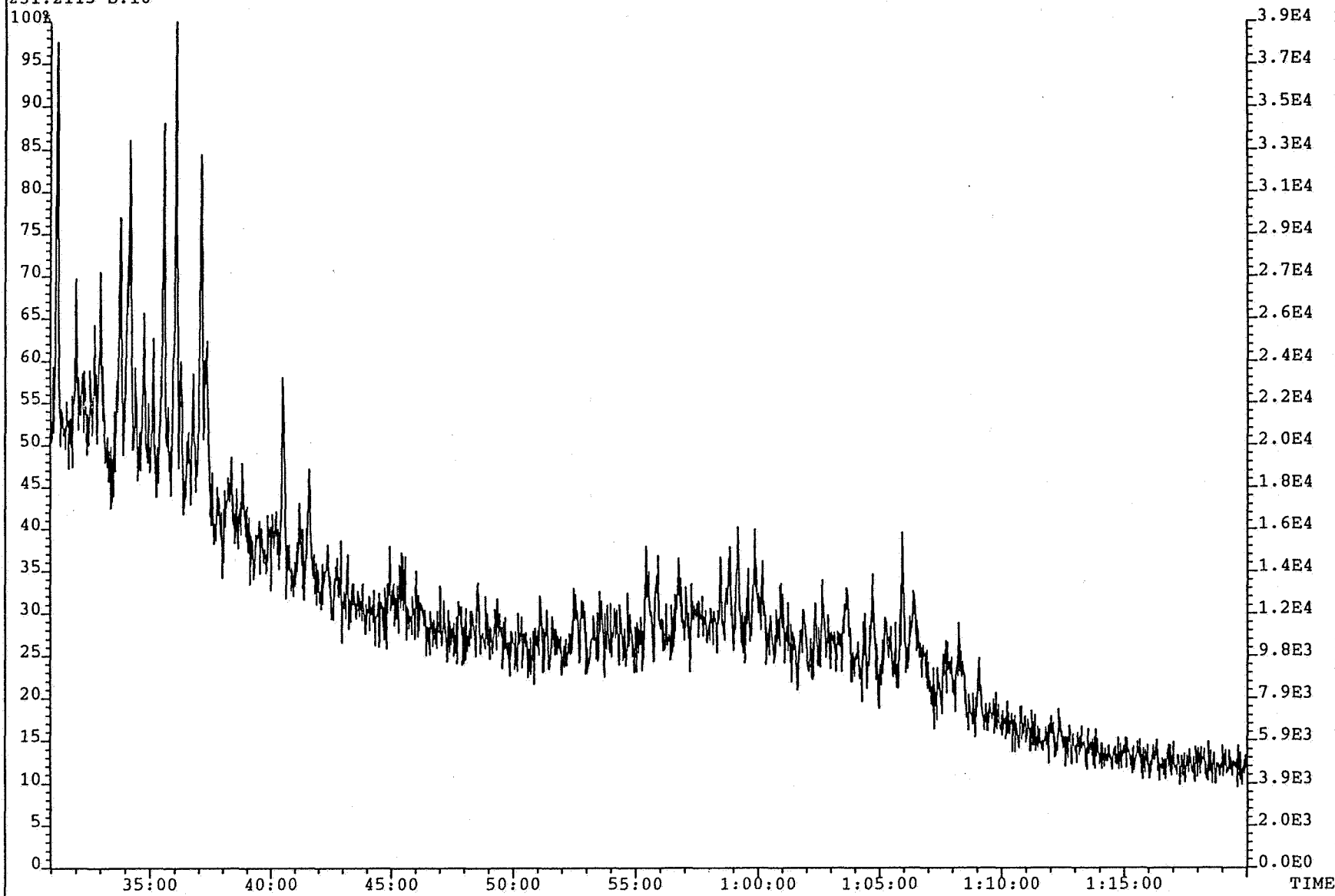
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
231.2113 S:10

Exp:SAT1



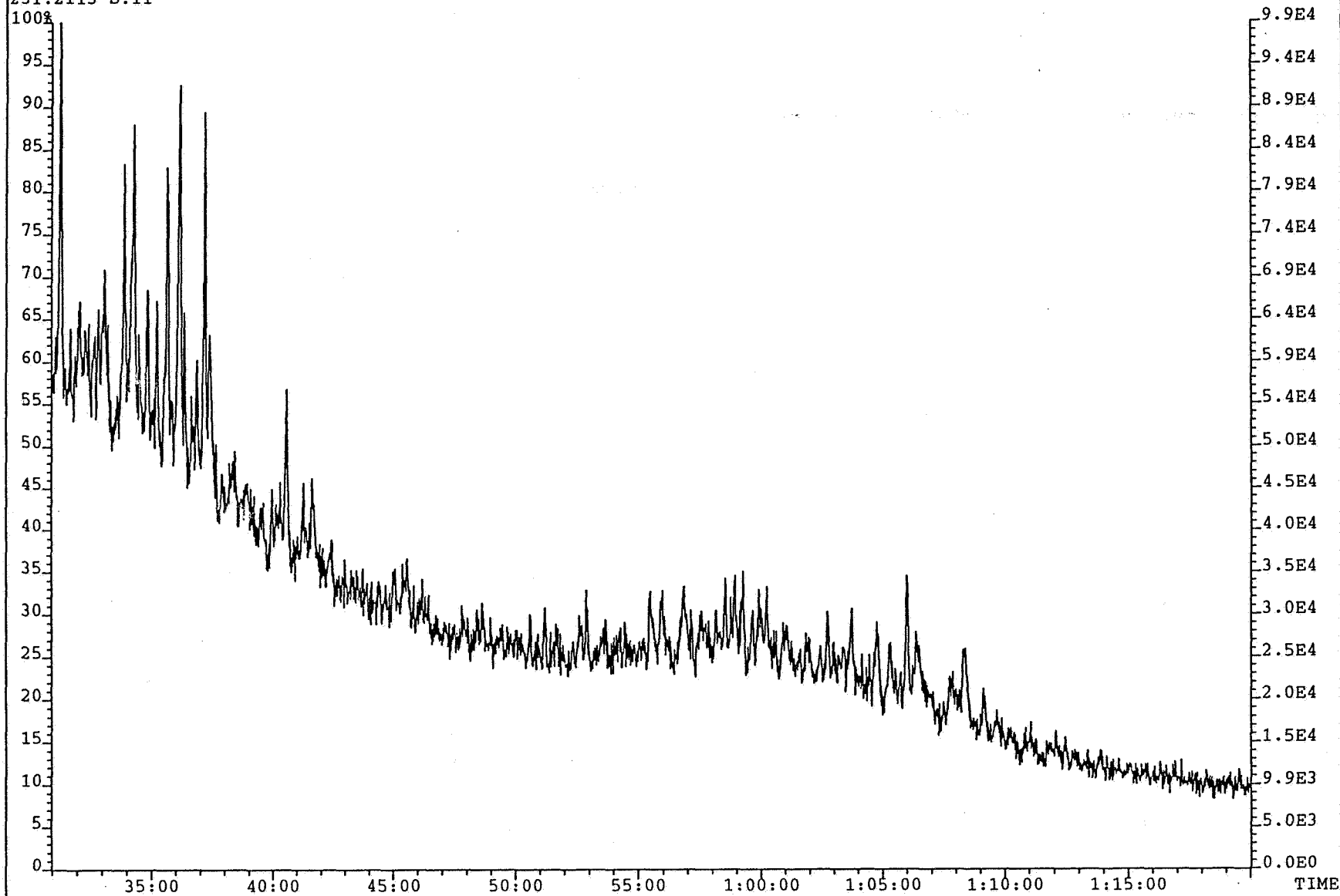
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
231.2113 S:11

Exp:SAT1



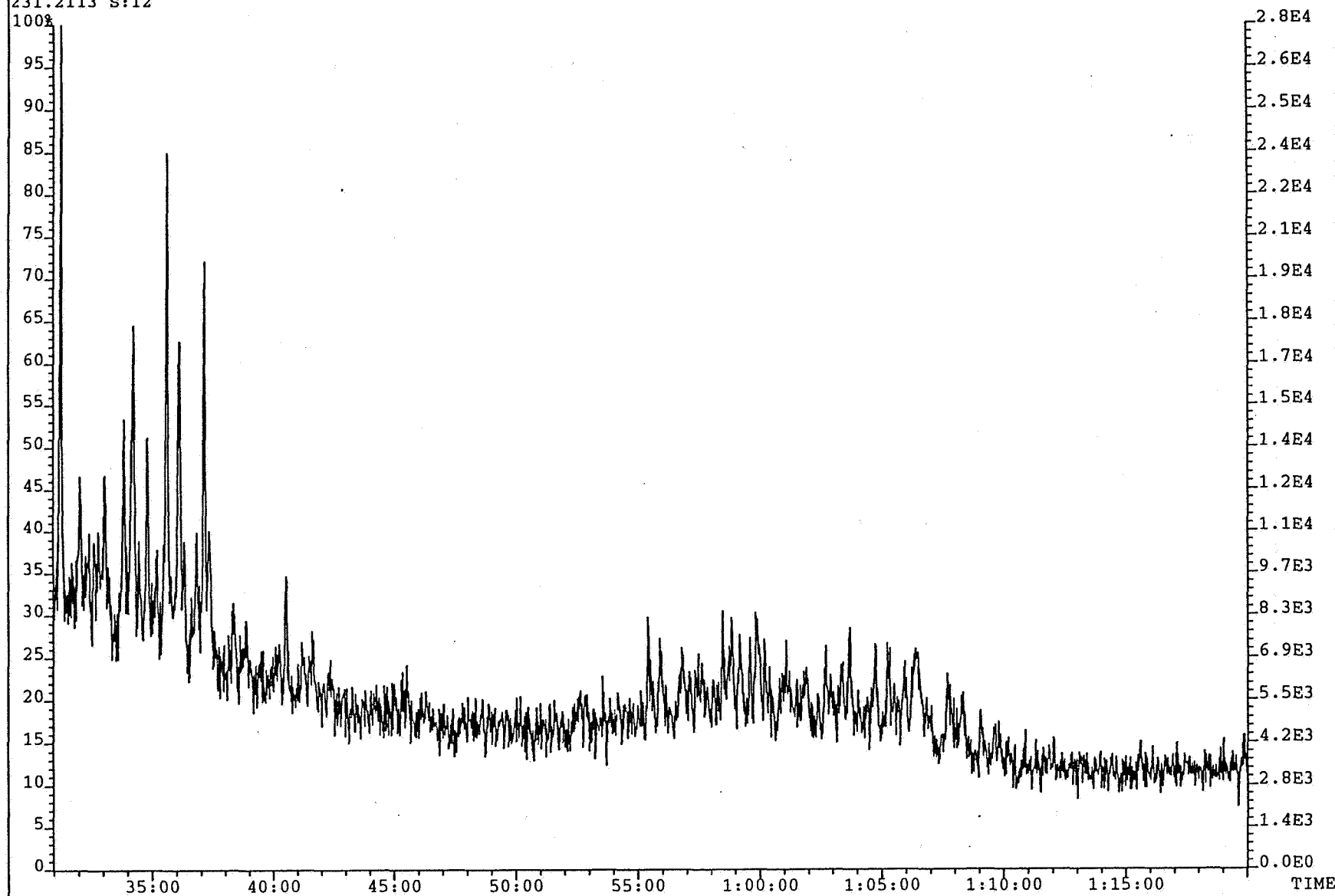
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
231.2113 S:12

Exp:SAT1



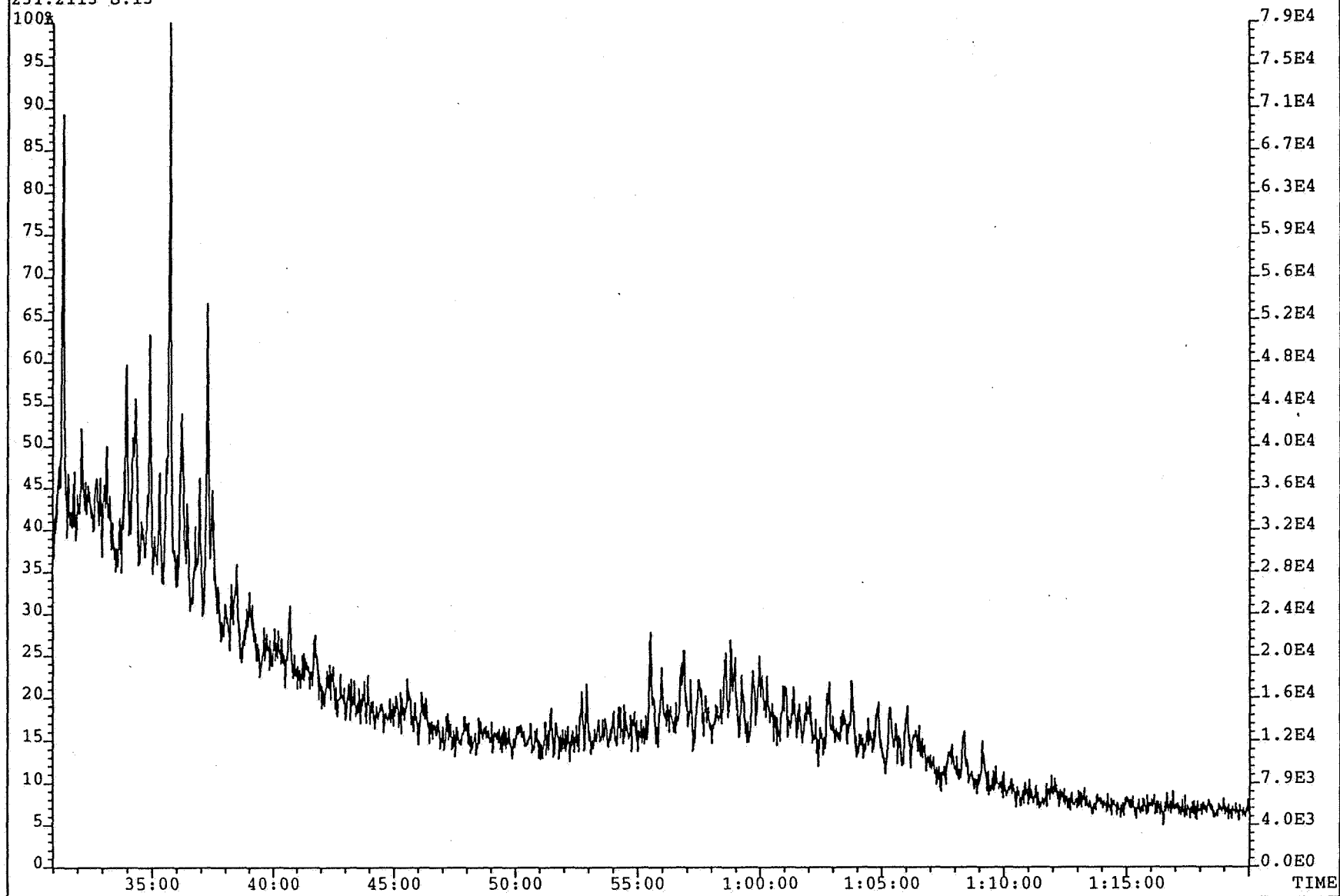
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
231.2113 S:13

Exp:SAT1



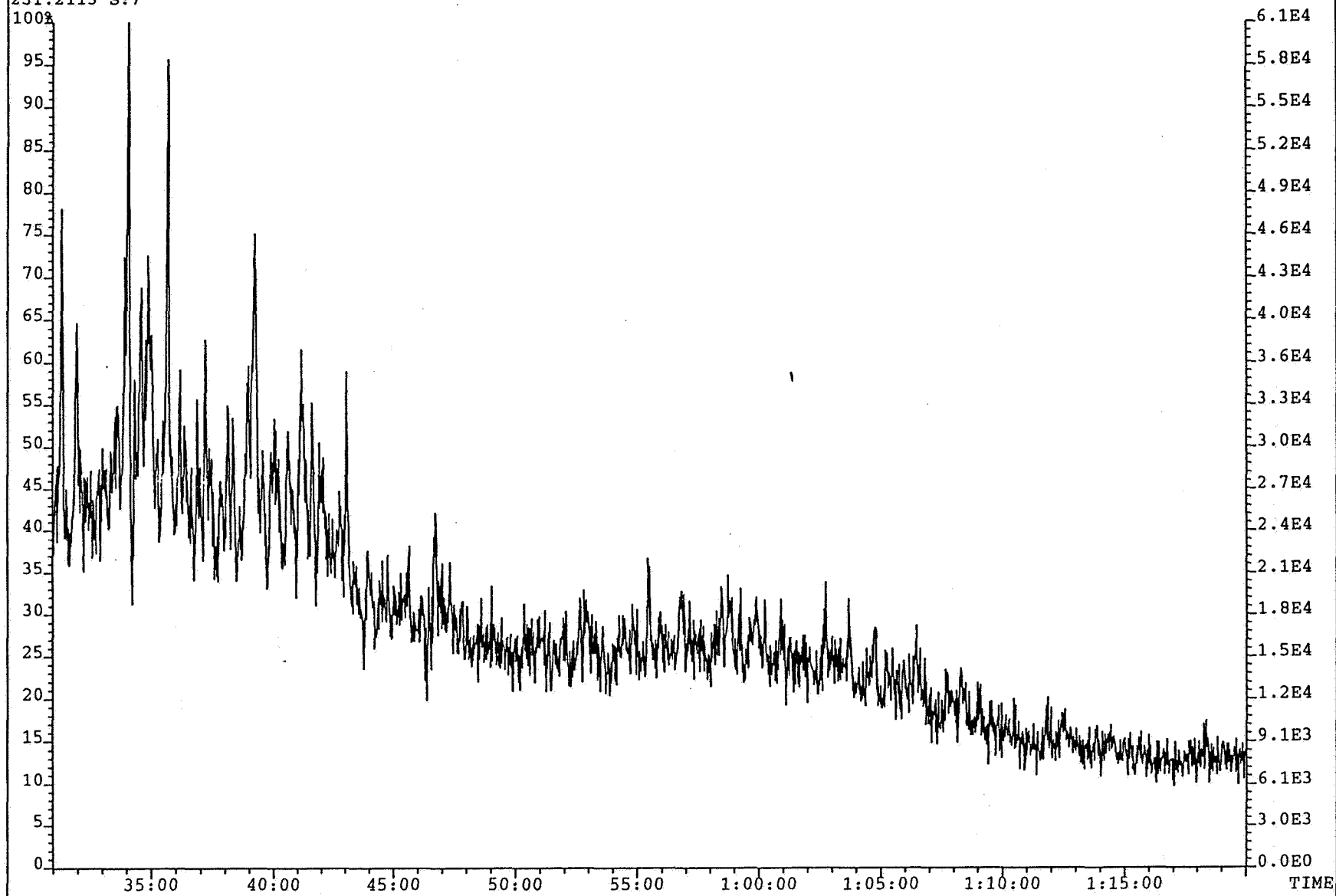
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
231.2113 S:7

Exp:SAT1



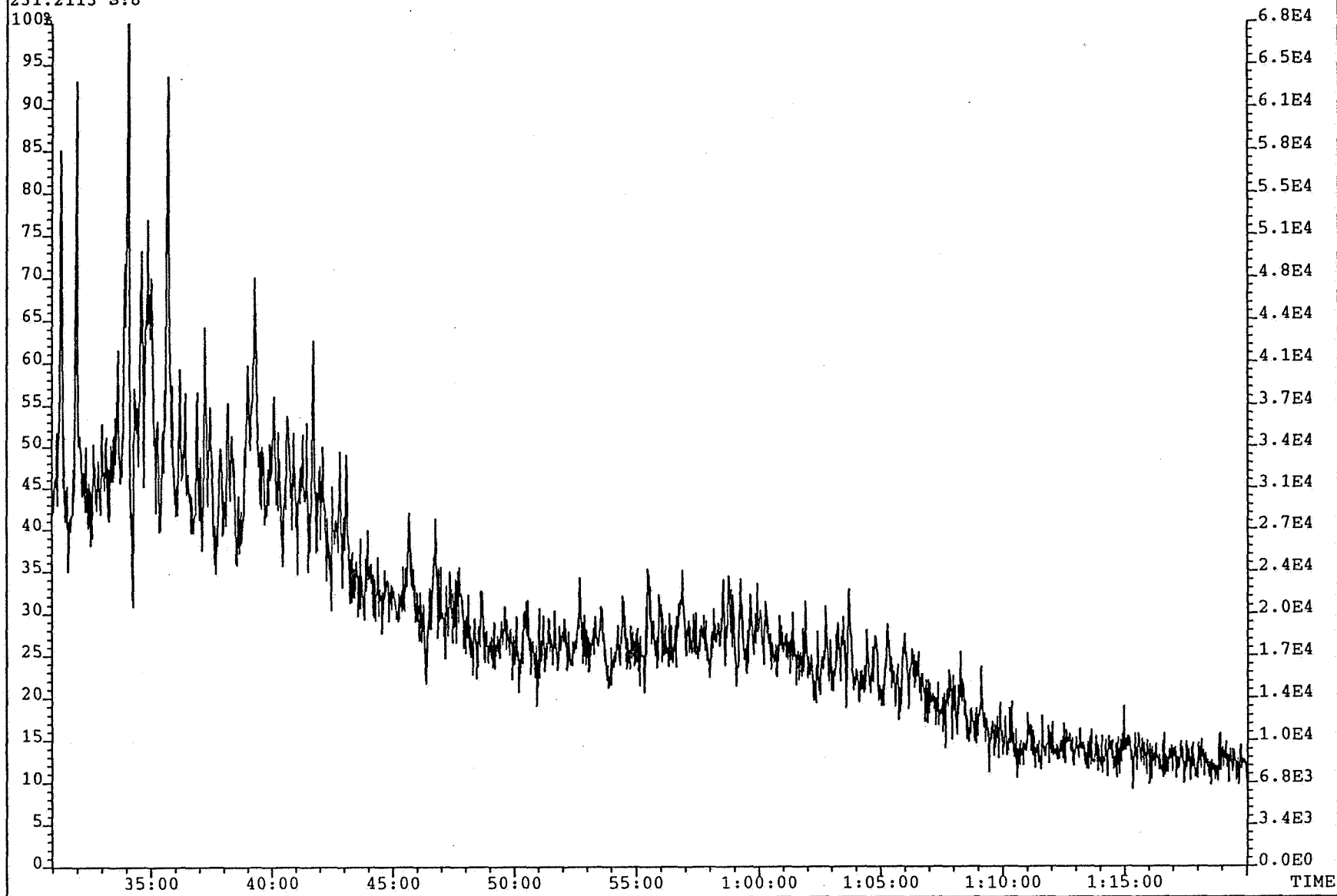
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
231.2113 S:8

Exp:SAT1

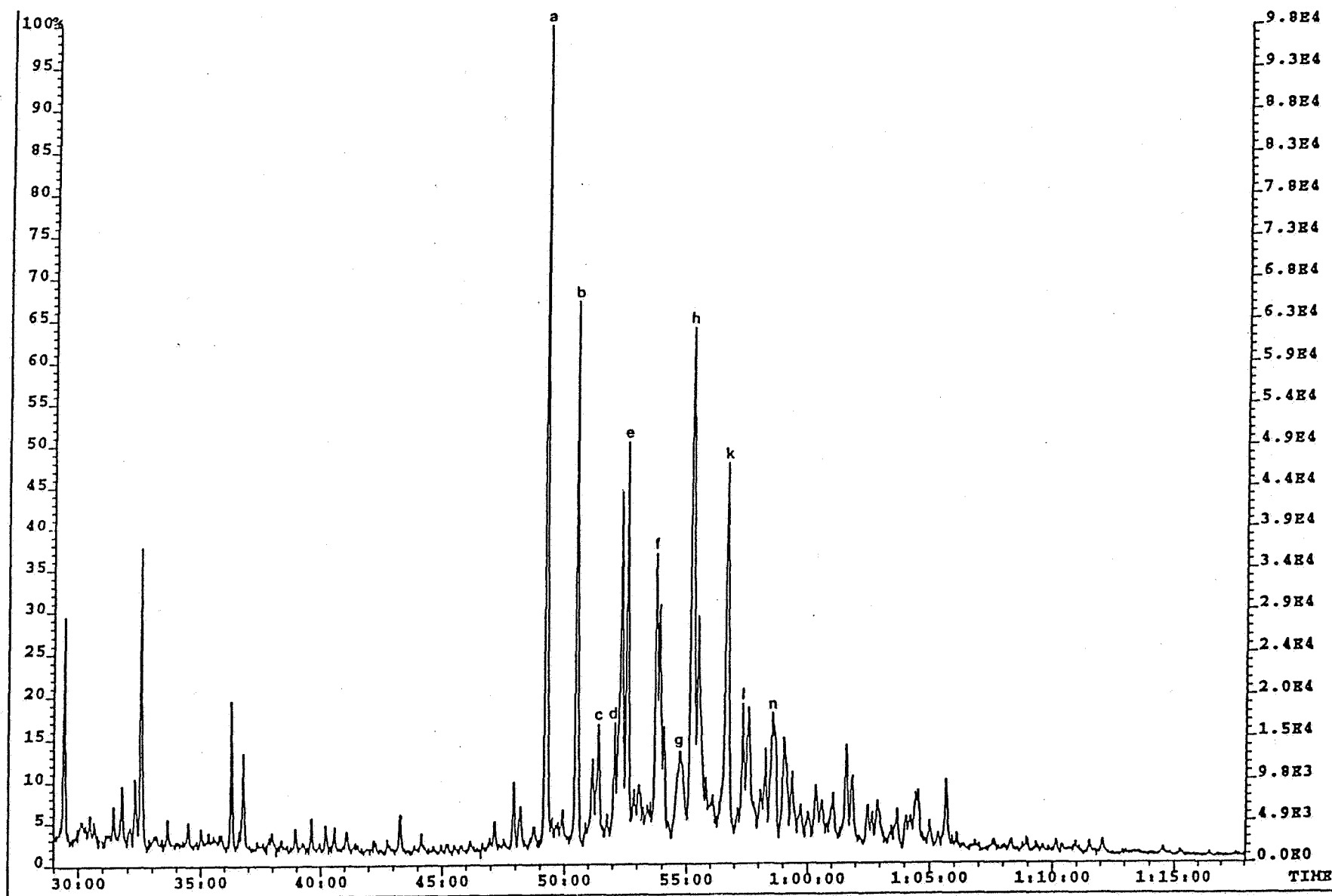


Schlumberger

GECO-PRAKLA

GEOLAB  NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 259 REARRANGED STERANES

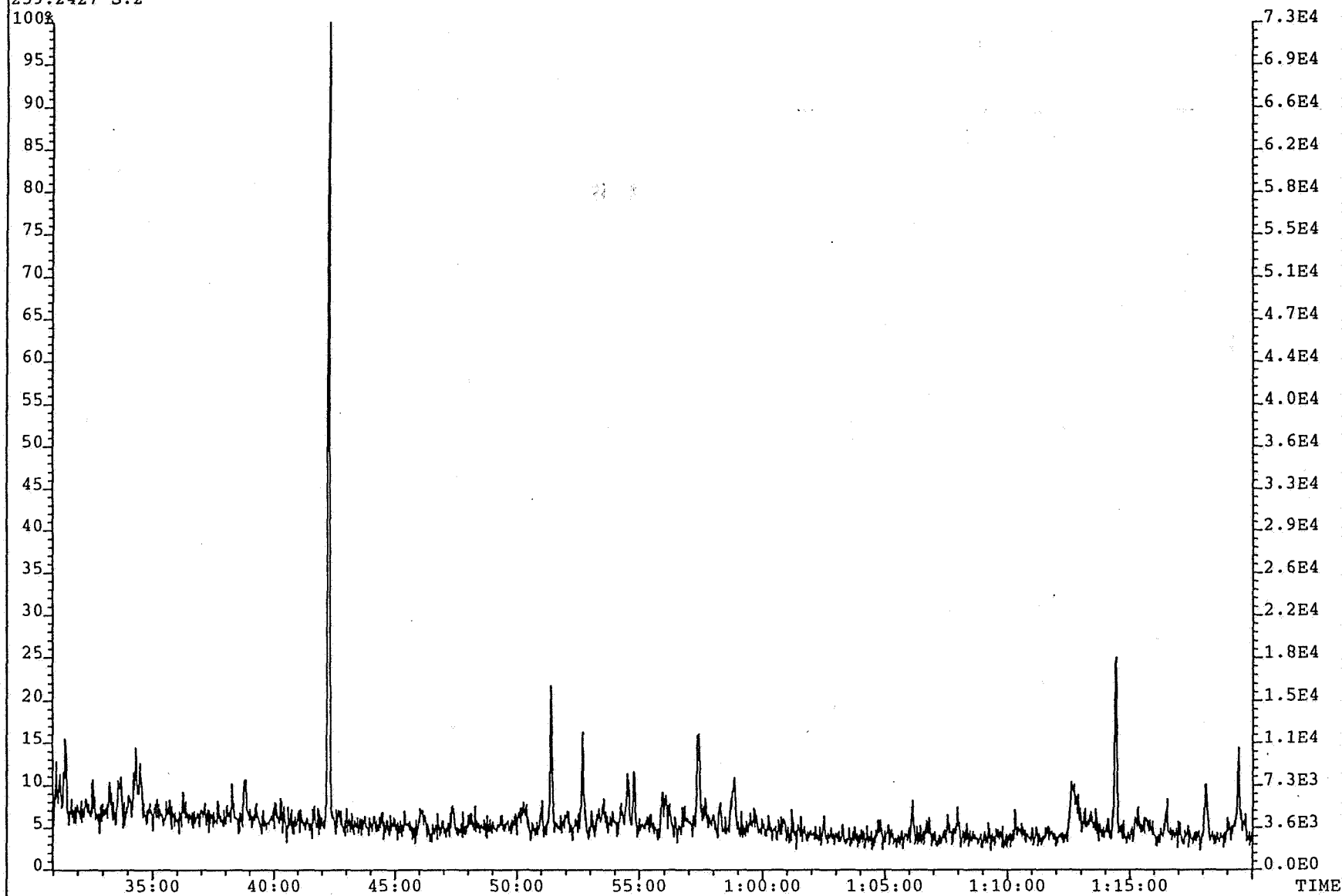


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
259.2427 S:2

Exp:SAT1



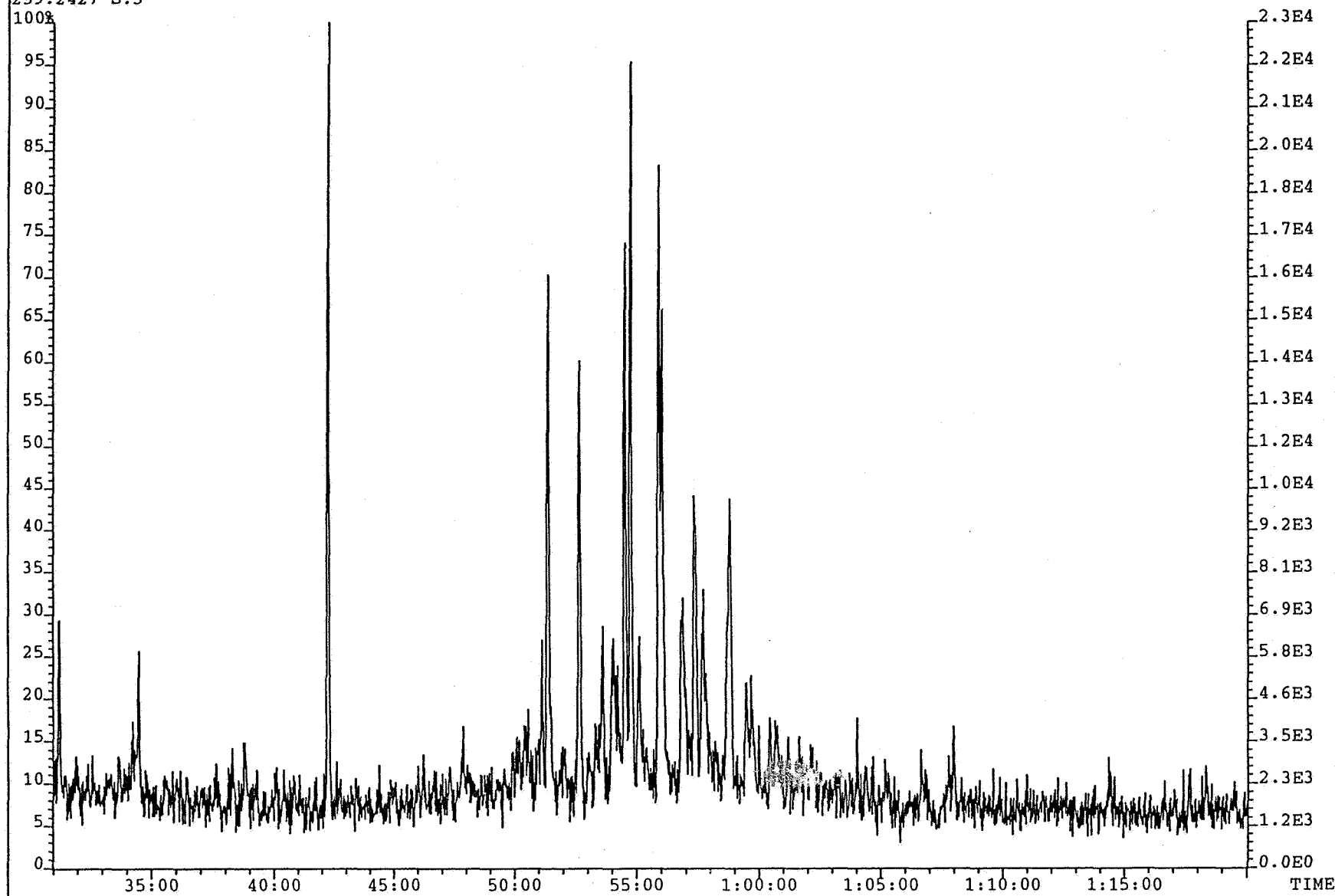
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
259.2427 S:3

Exp:SAT1



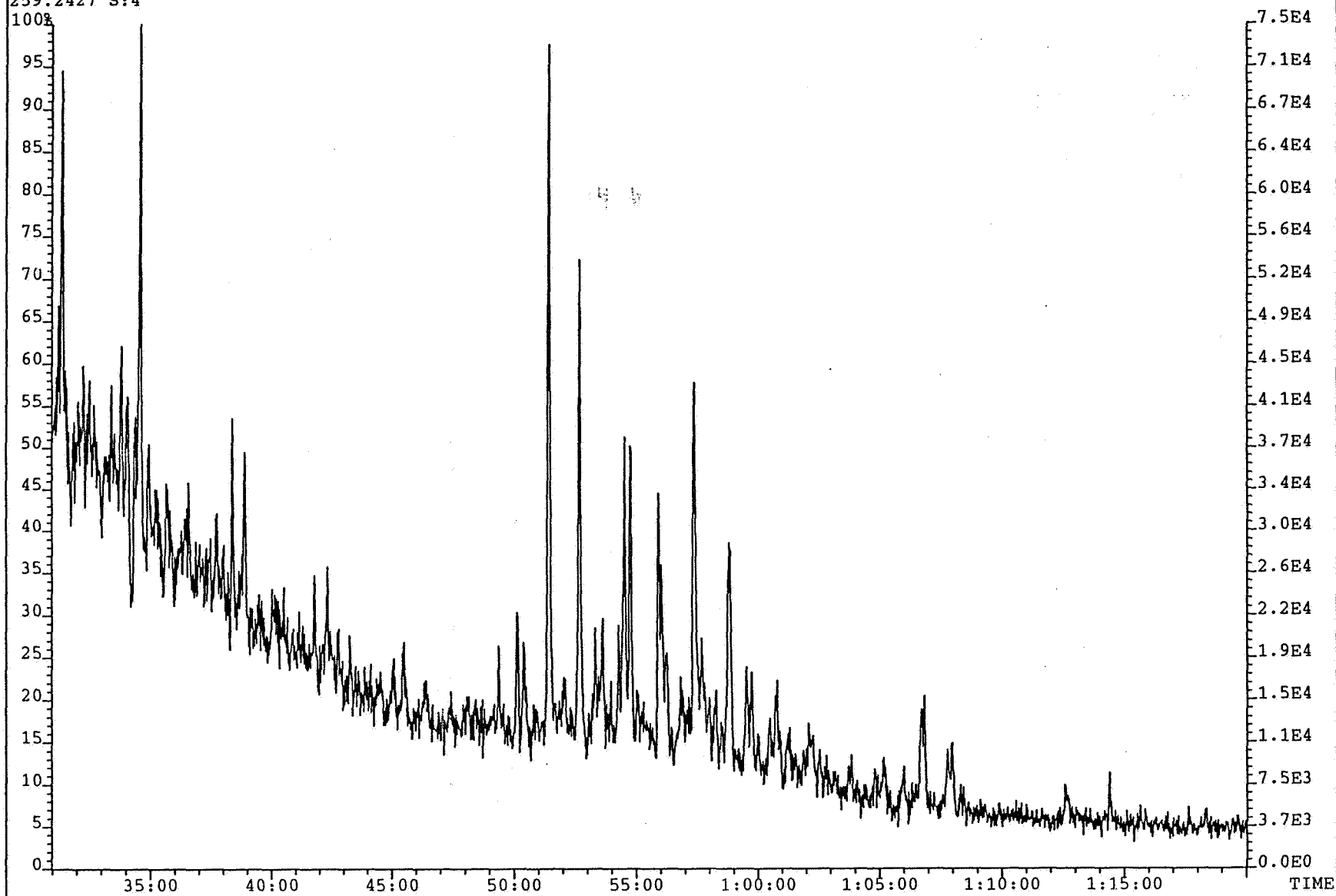
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
259.2427 S:4

Exp:SAT1



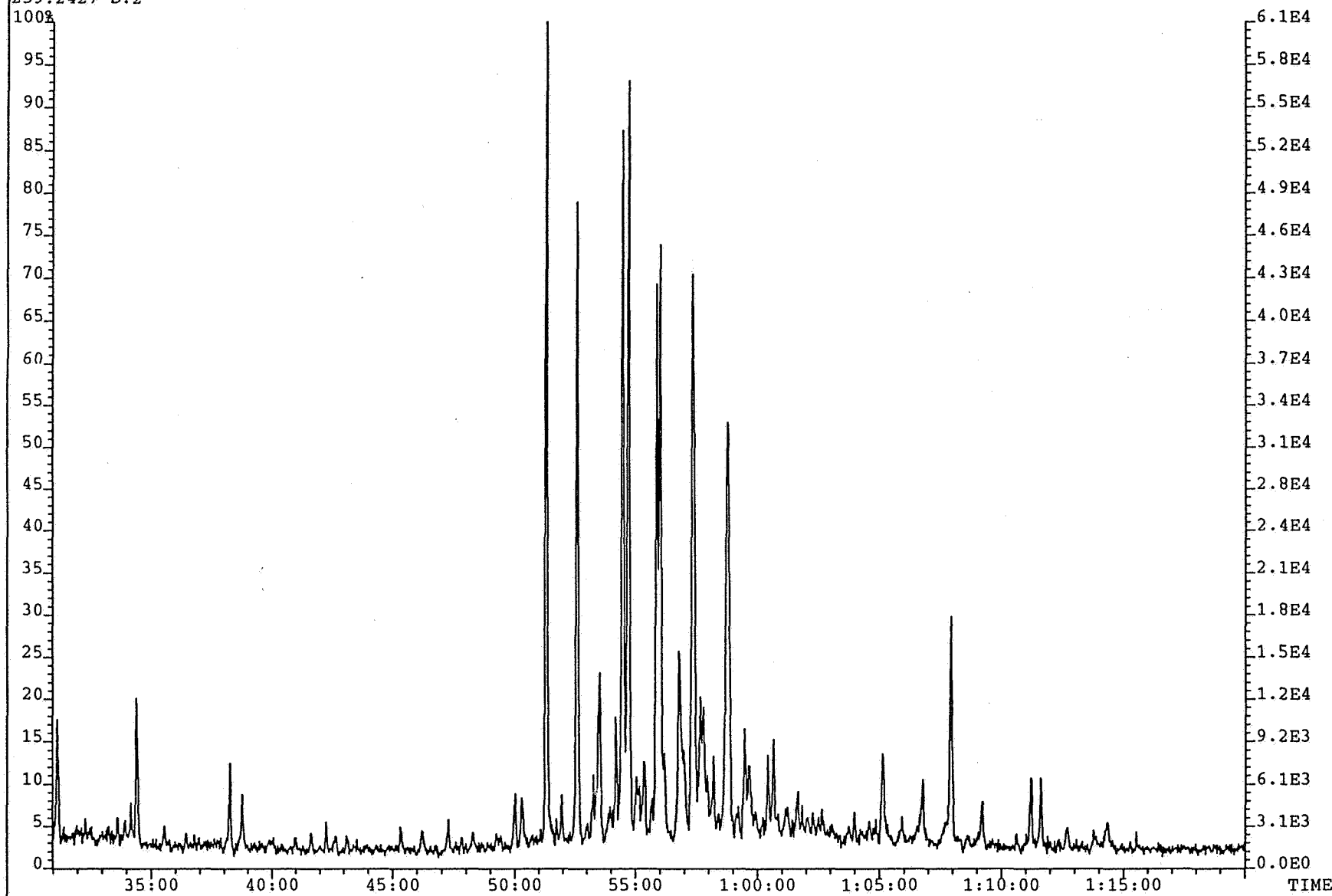
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
259.2427 S:2

Exp:SAT1



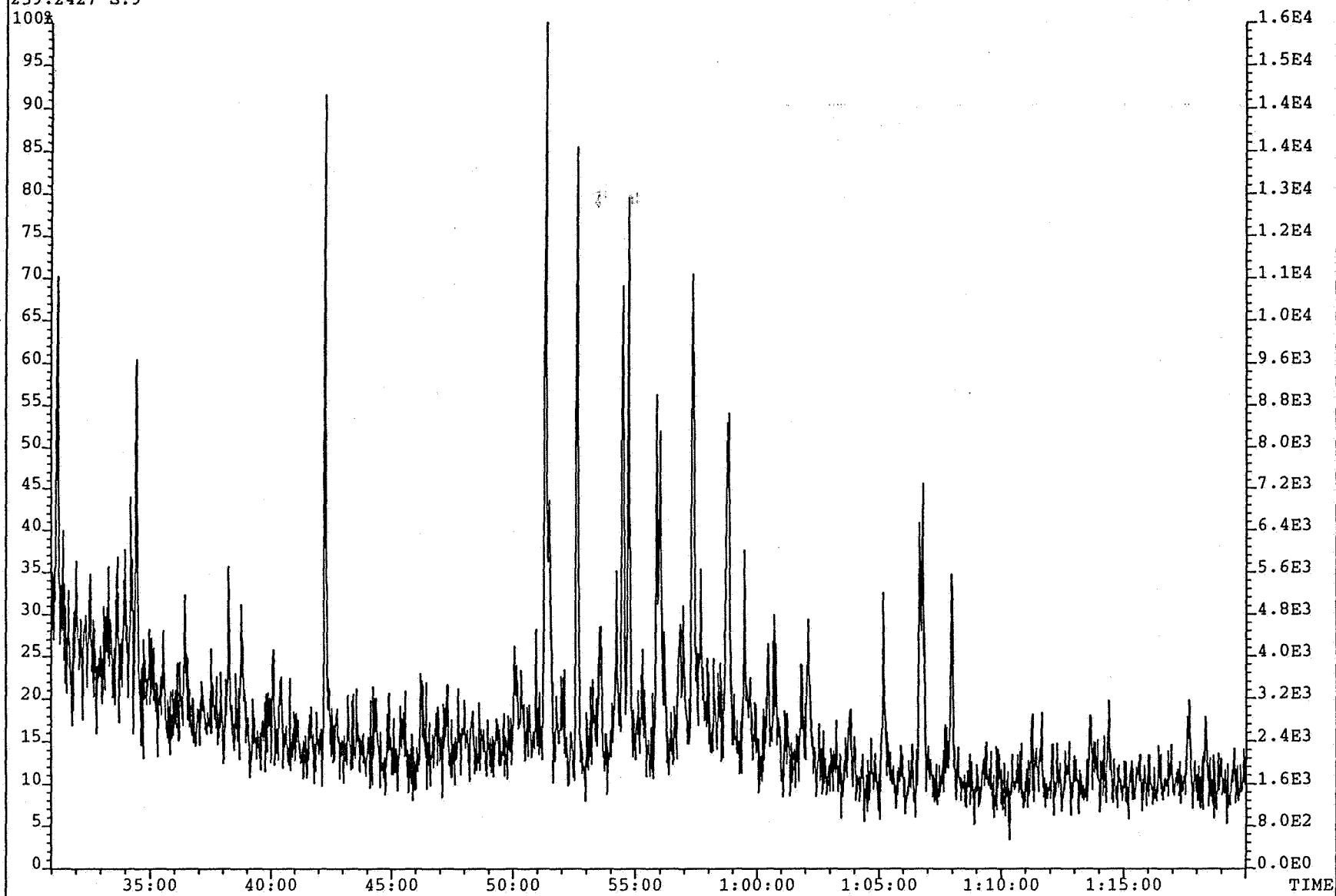
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
259.2427 S:9

Exp:SAT1



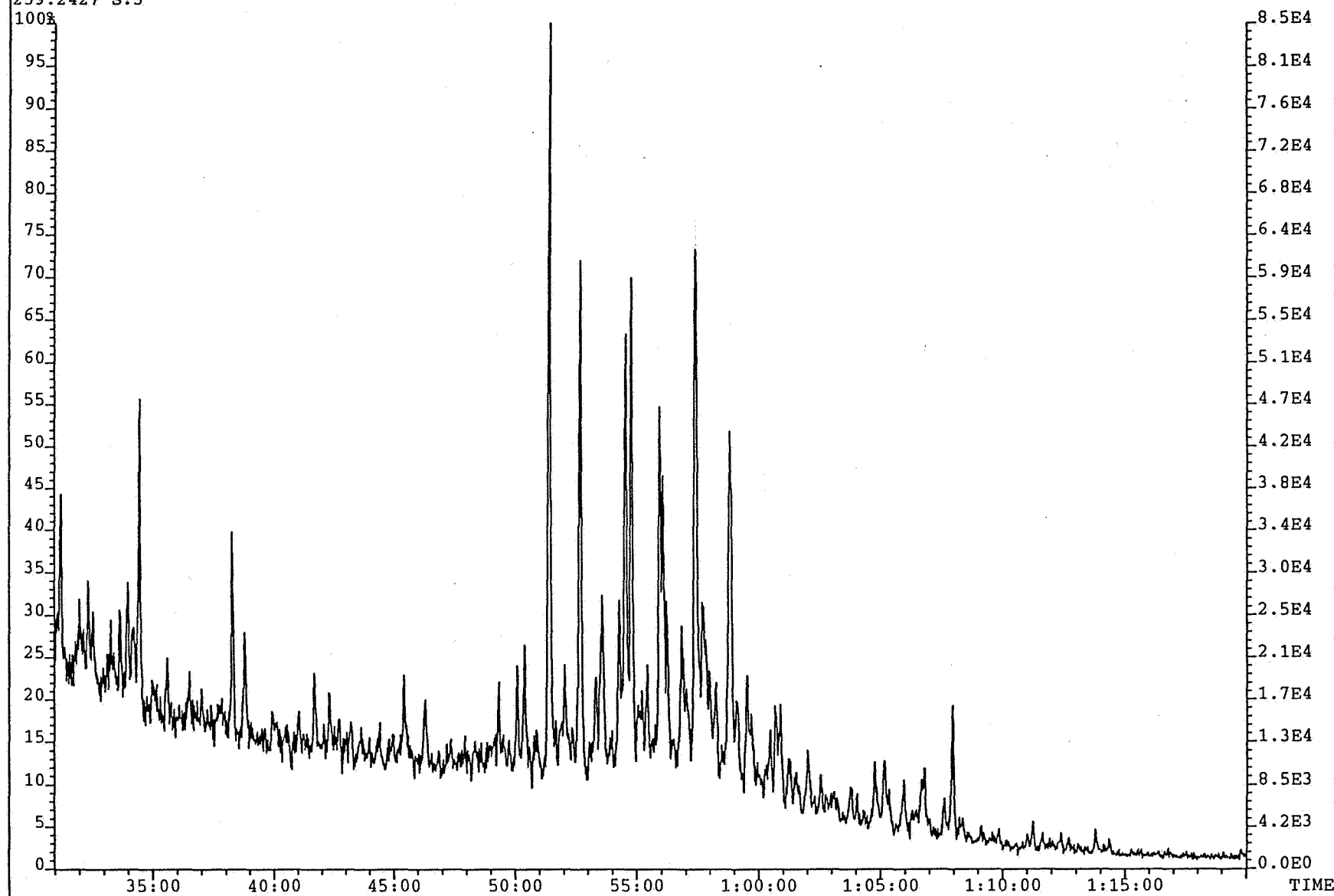
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
259.2427 S:3

Exp:SAT1

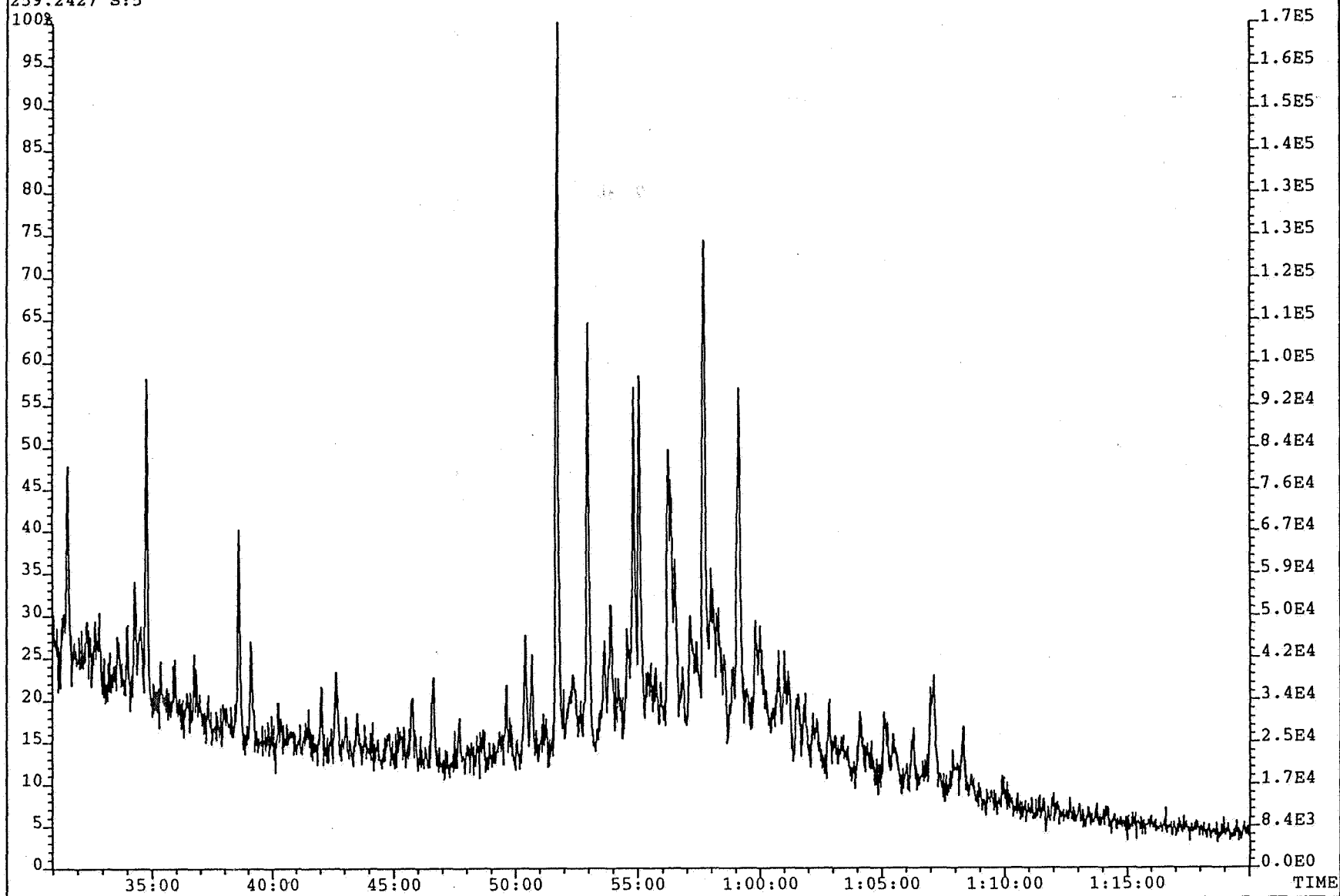


Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL Exp:SAT1
259.2427 S:5



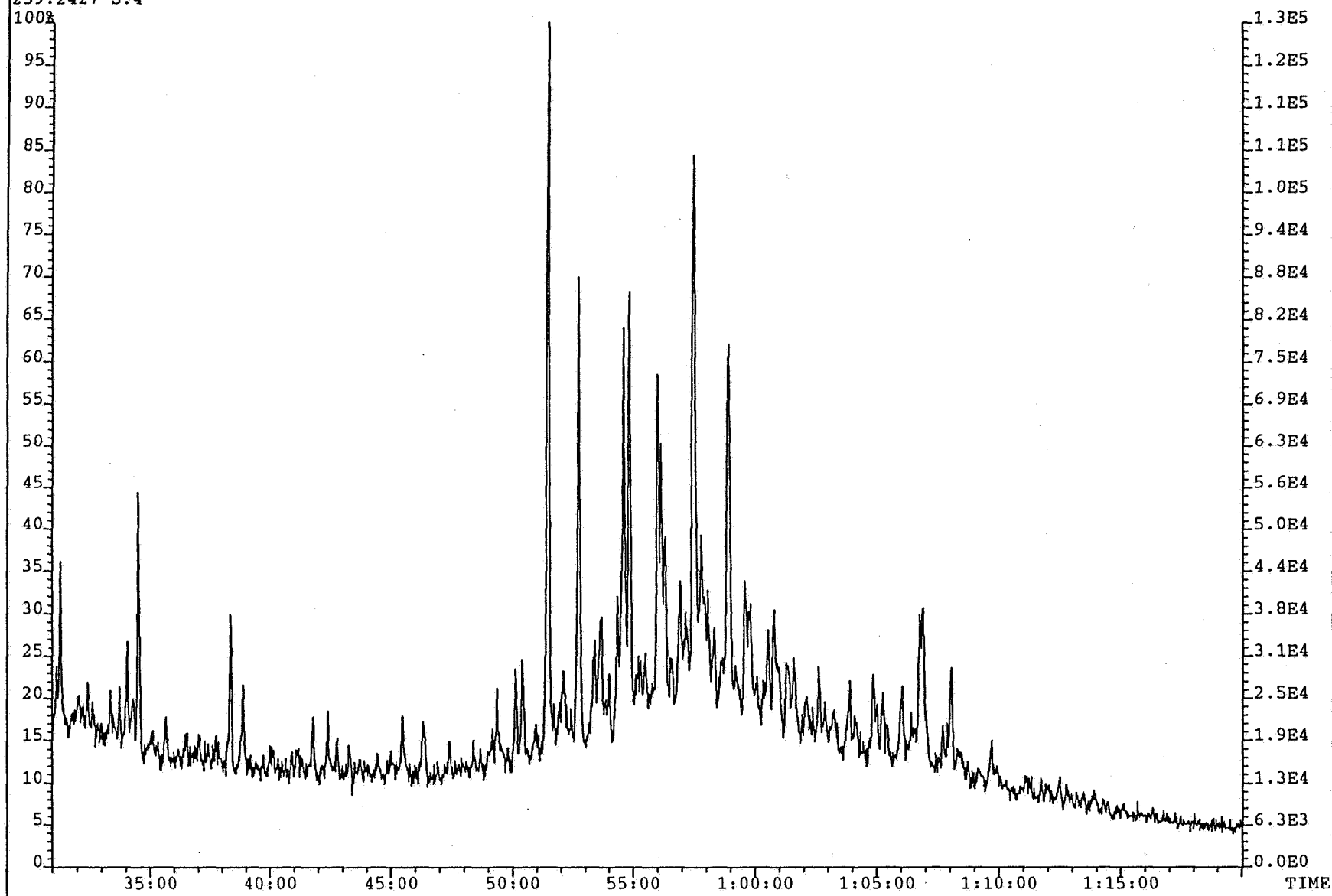
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
259.2427 S:4

Exp:SAT1



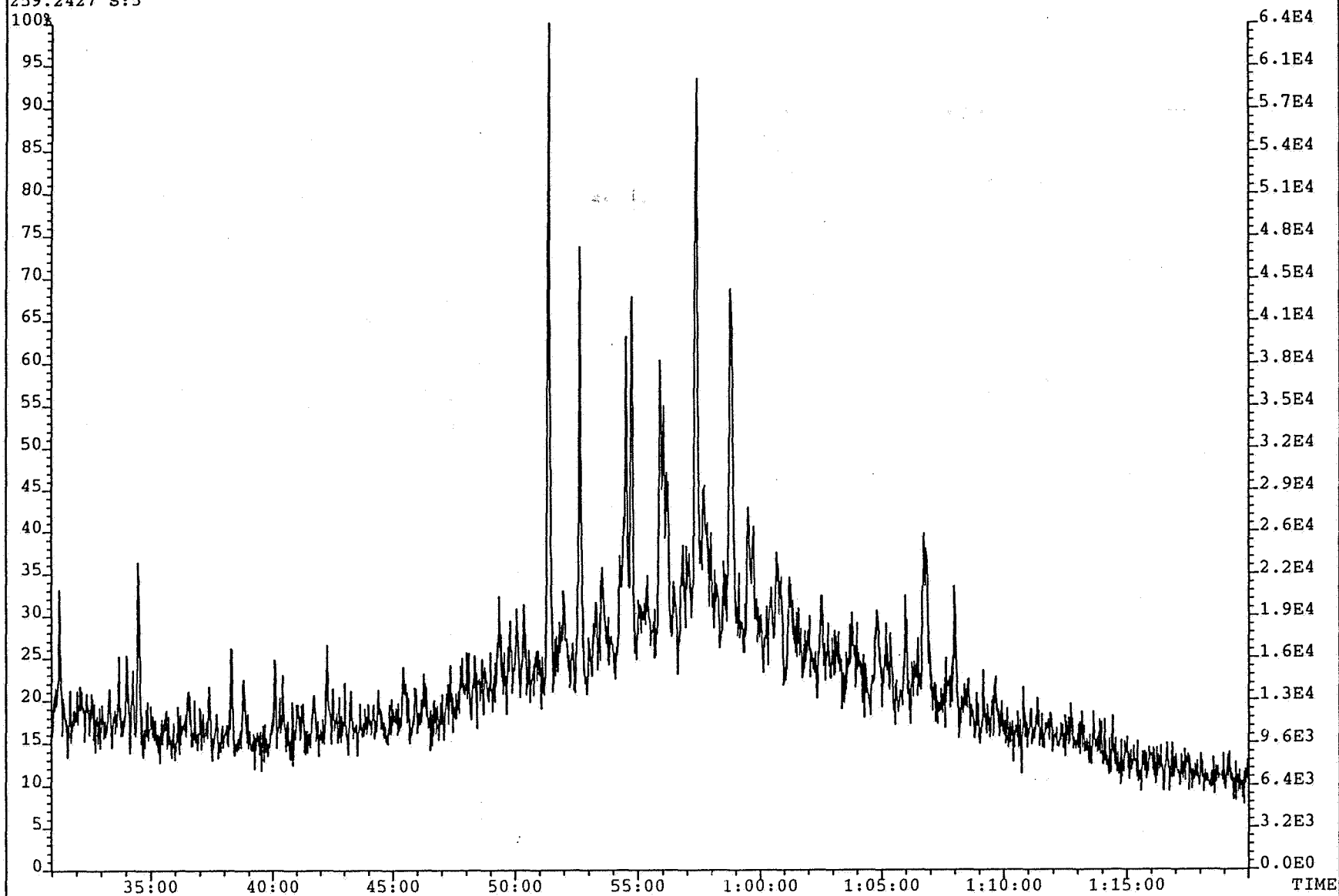
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
259.2427 S:5

Exp:SAT1



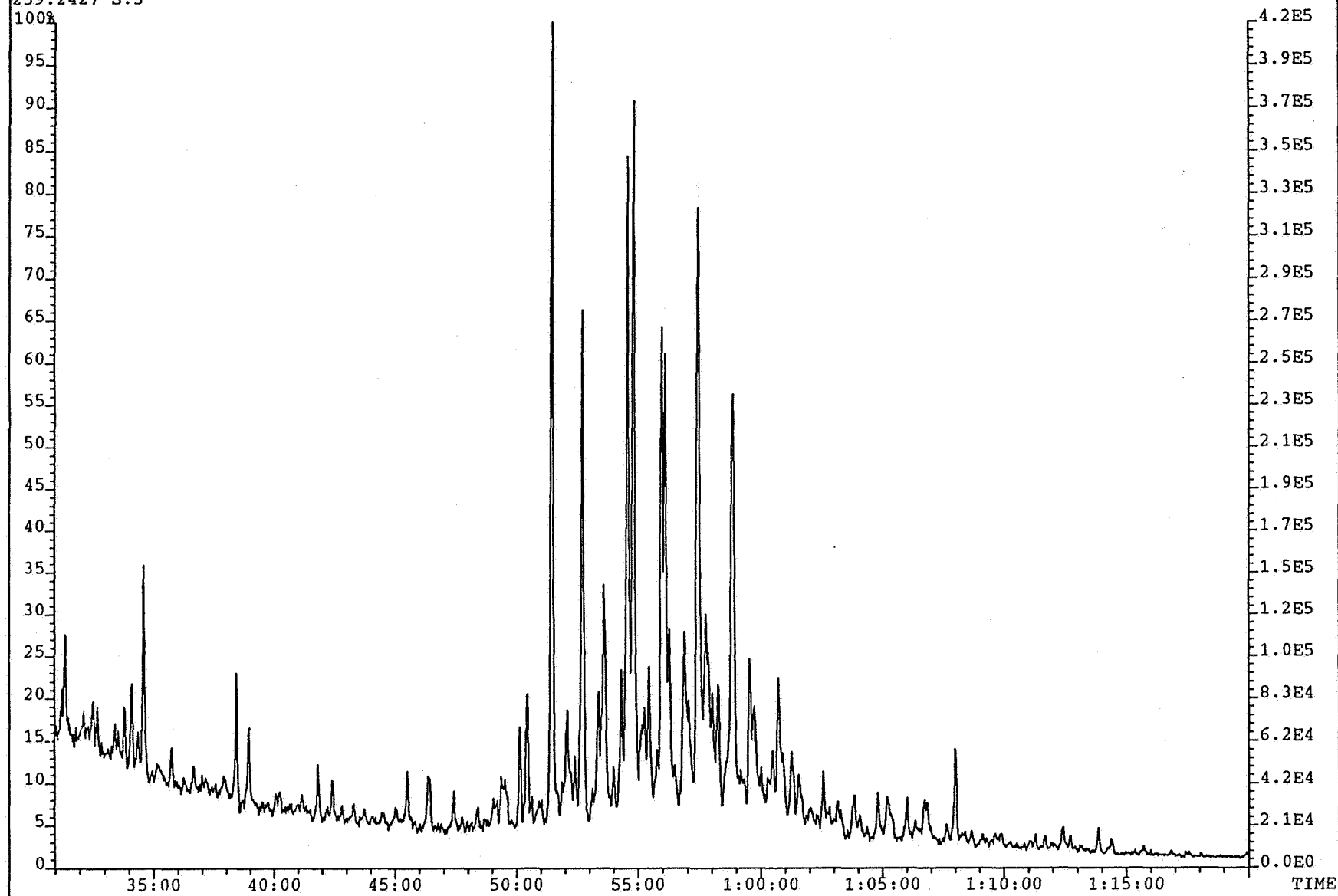
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
259.2427 S:5

Exp:SAT1

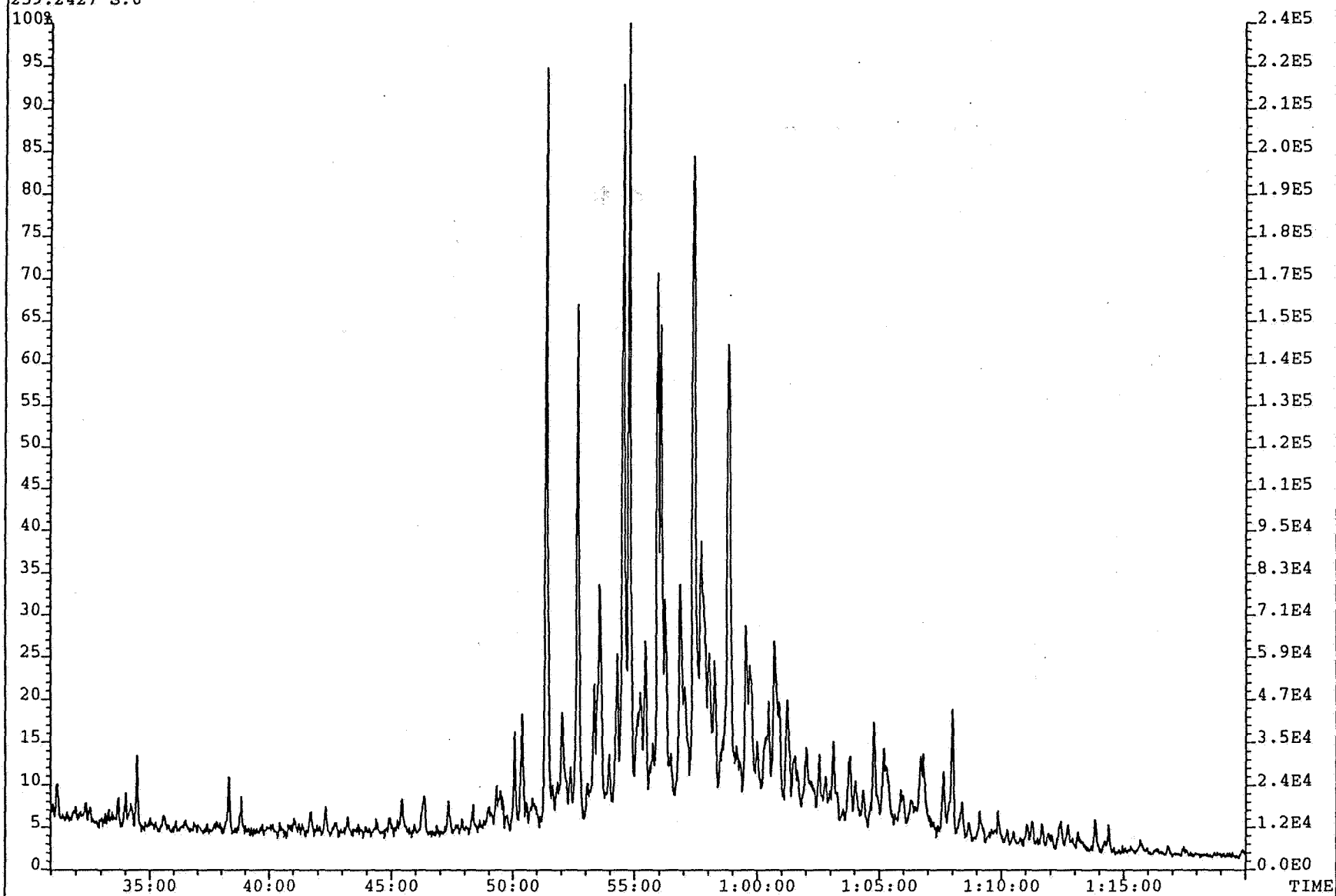


Schlumberger GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
259.2427 S:6

Exp:SAT1



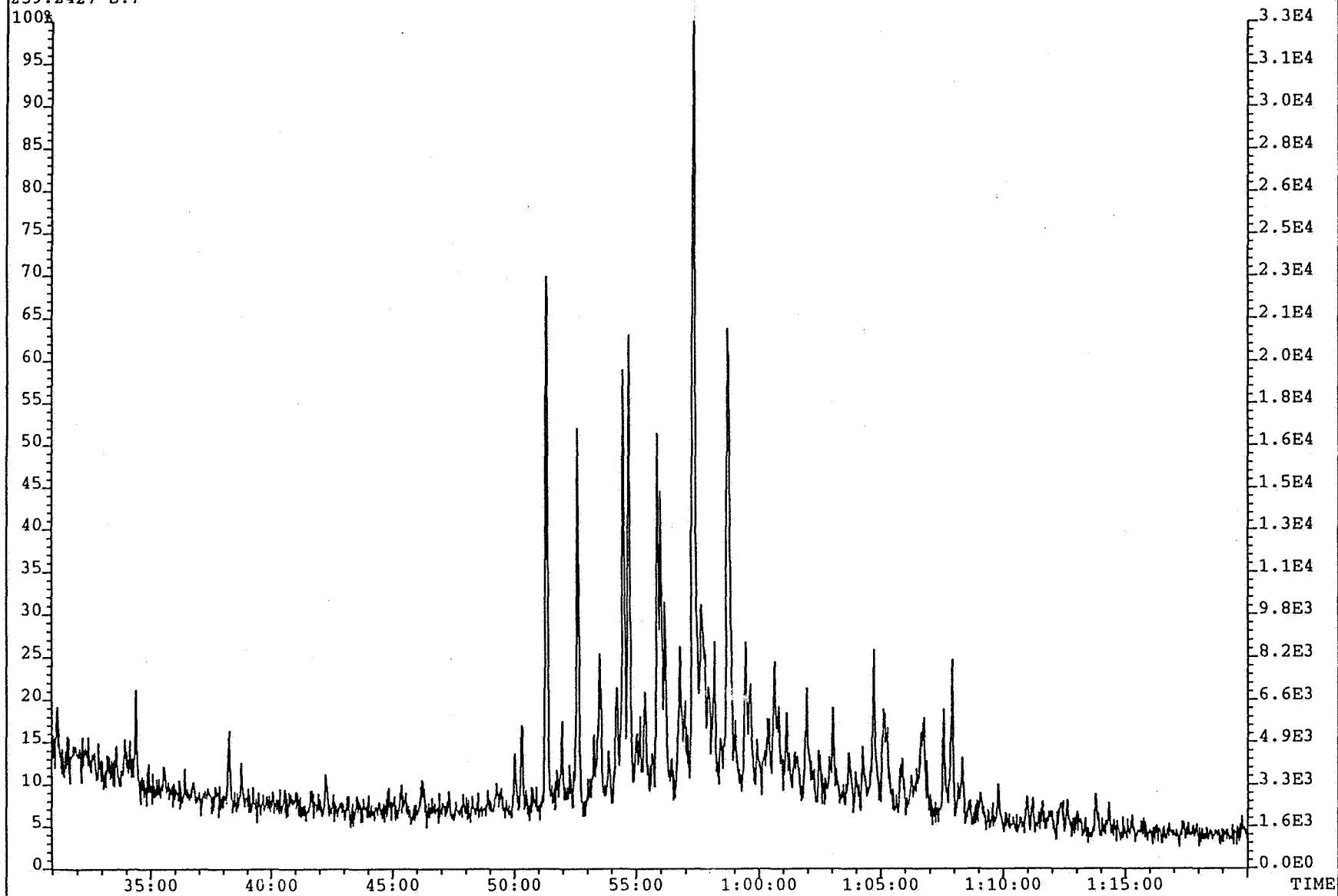
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
259.2427 S:7

Exp:SAT1



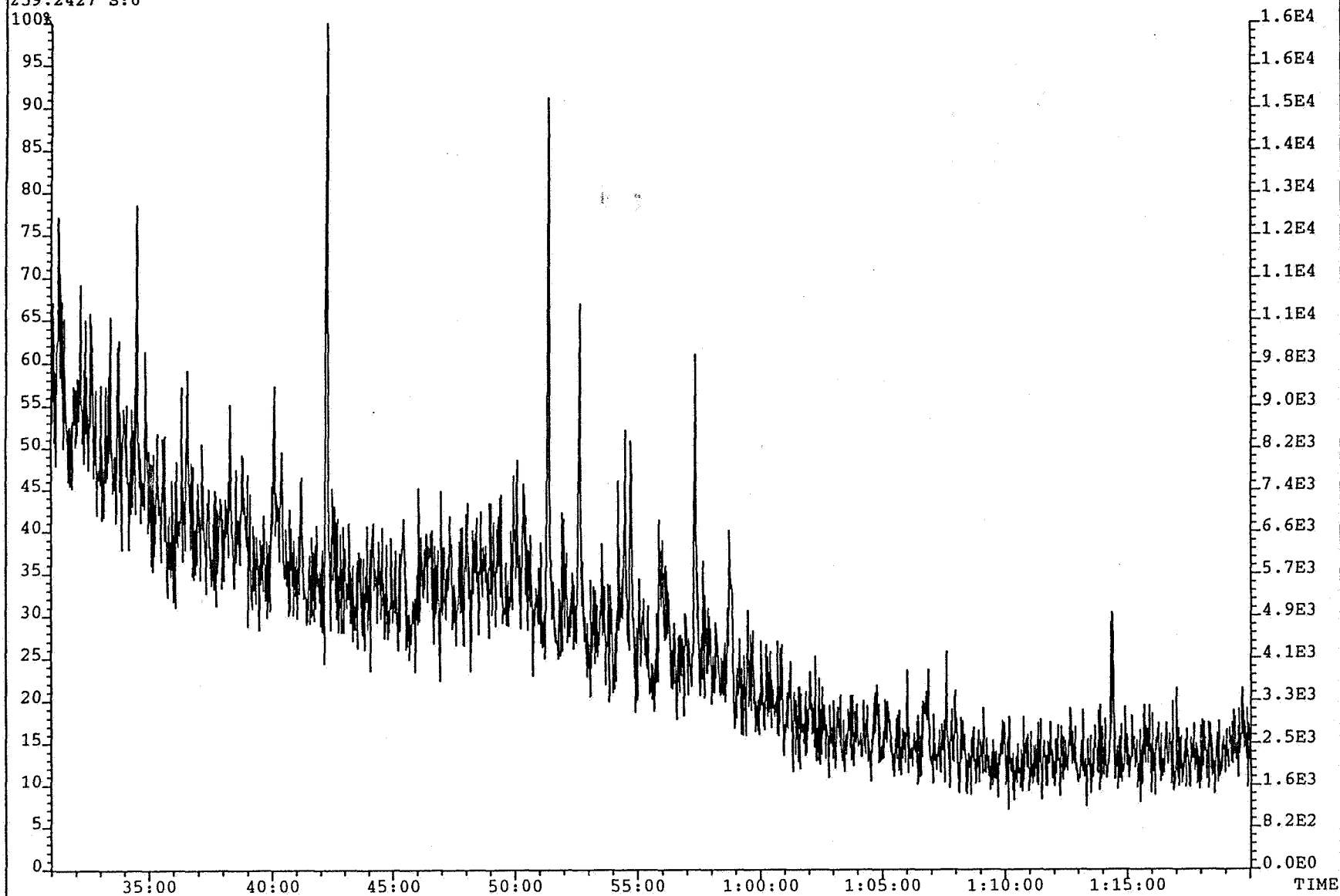
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
259.2427 S:6

Exp:SAT1



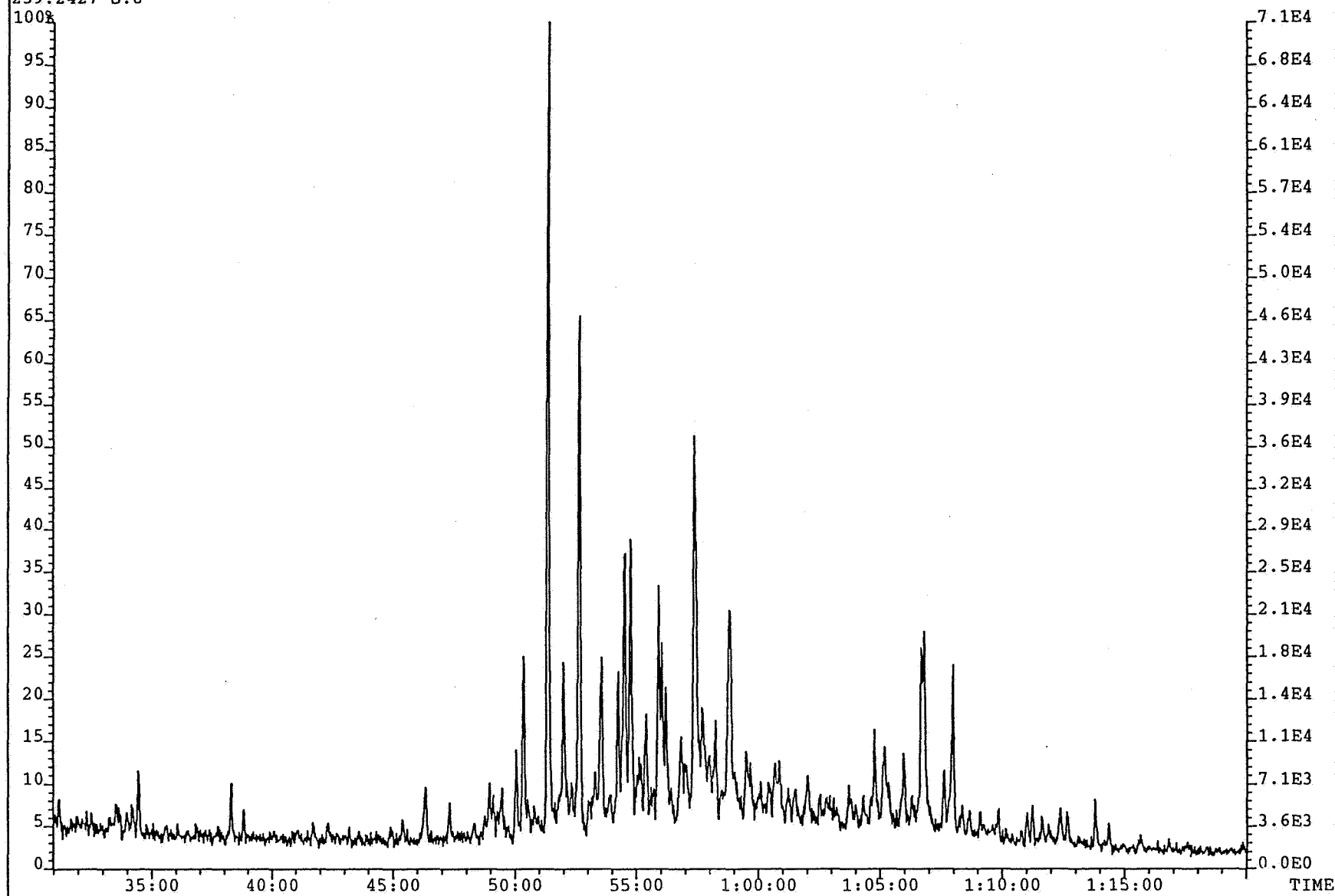
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
259.2427 S:8

Exp:SAT1



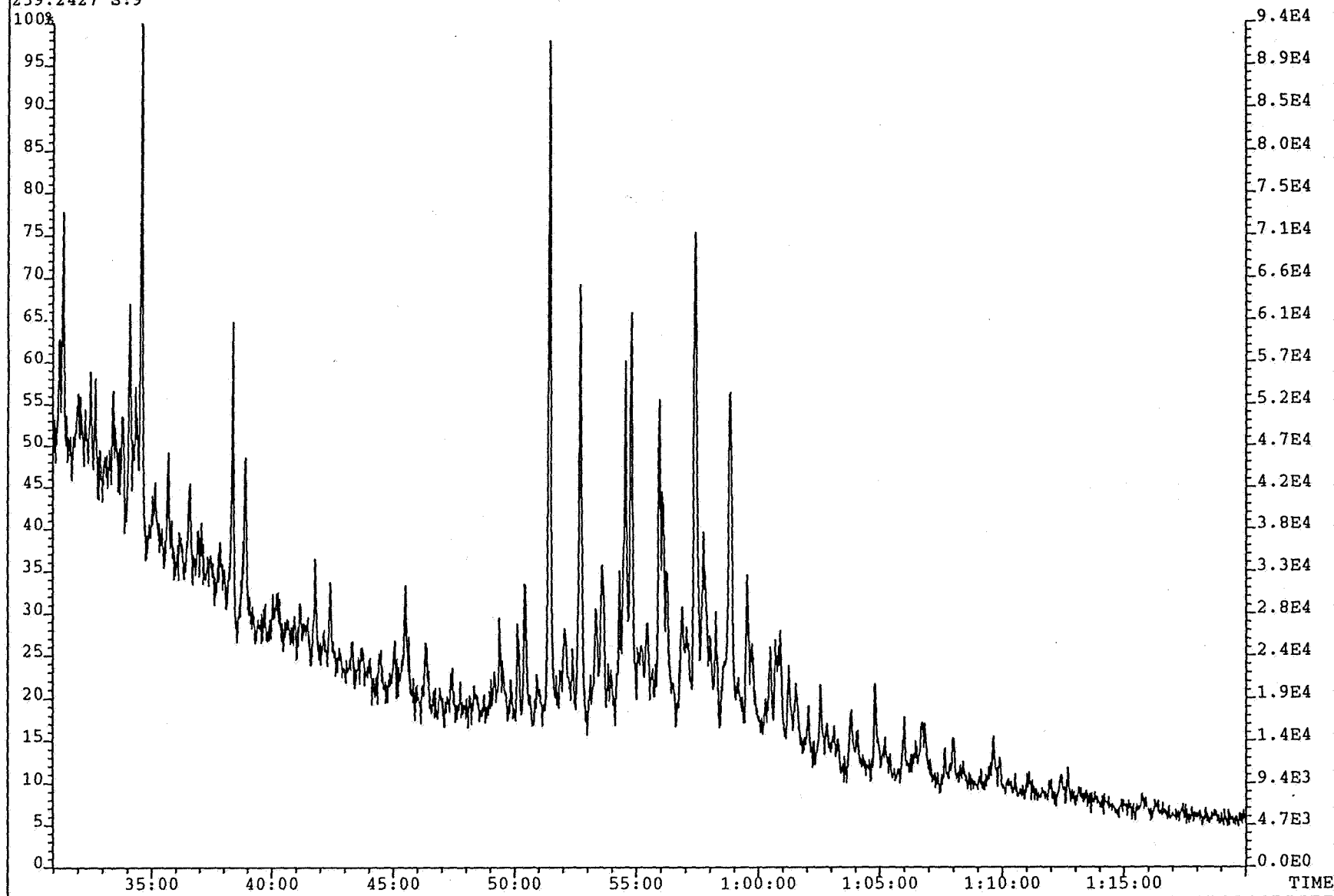
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
259.2427 S:9

Exp:SAT1



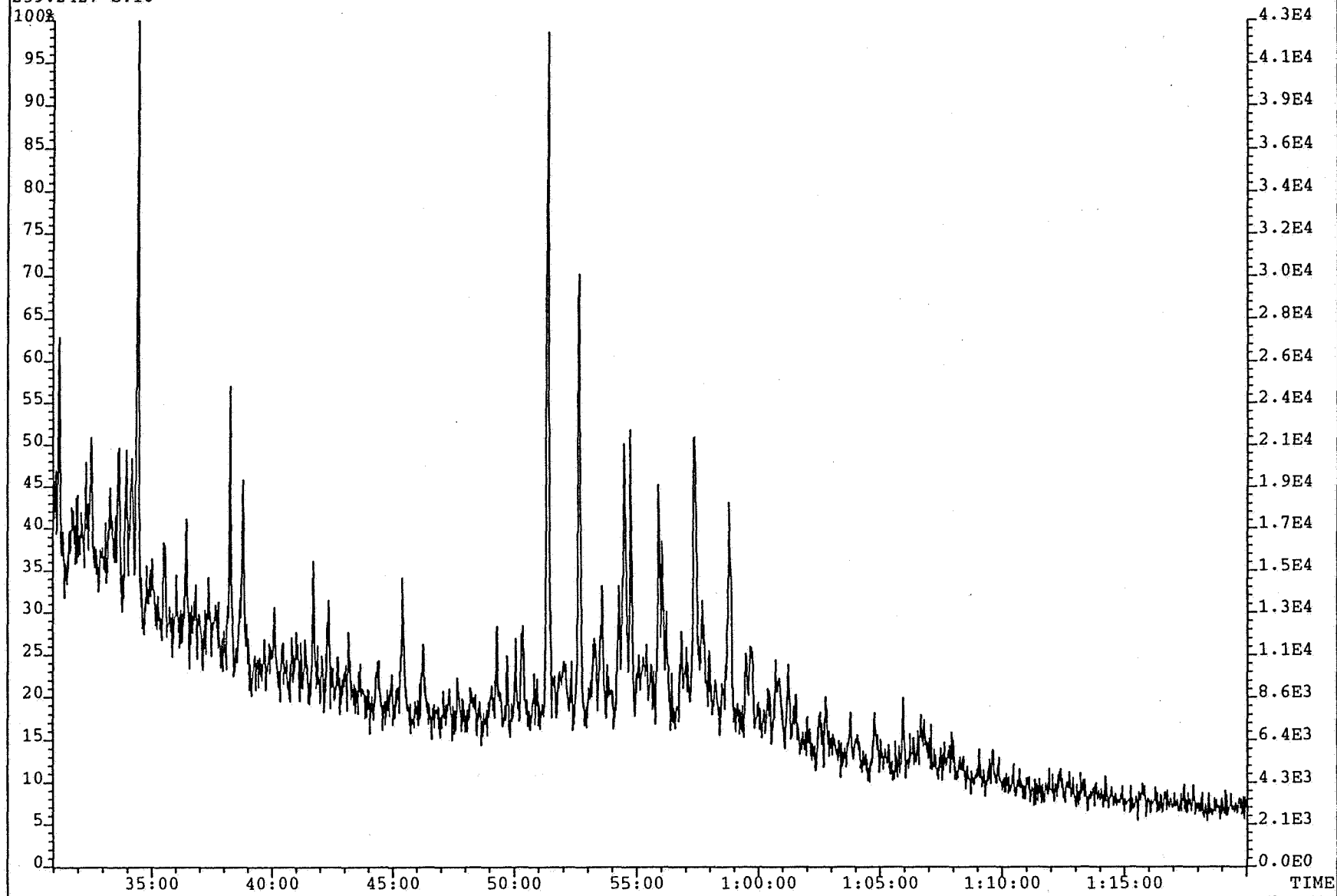
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
259.2427 S:10

Exp:SAT1

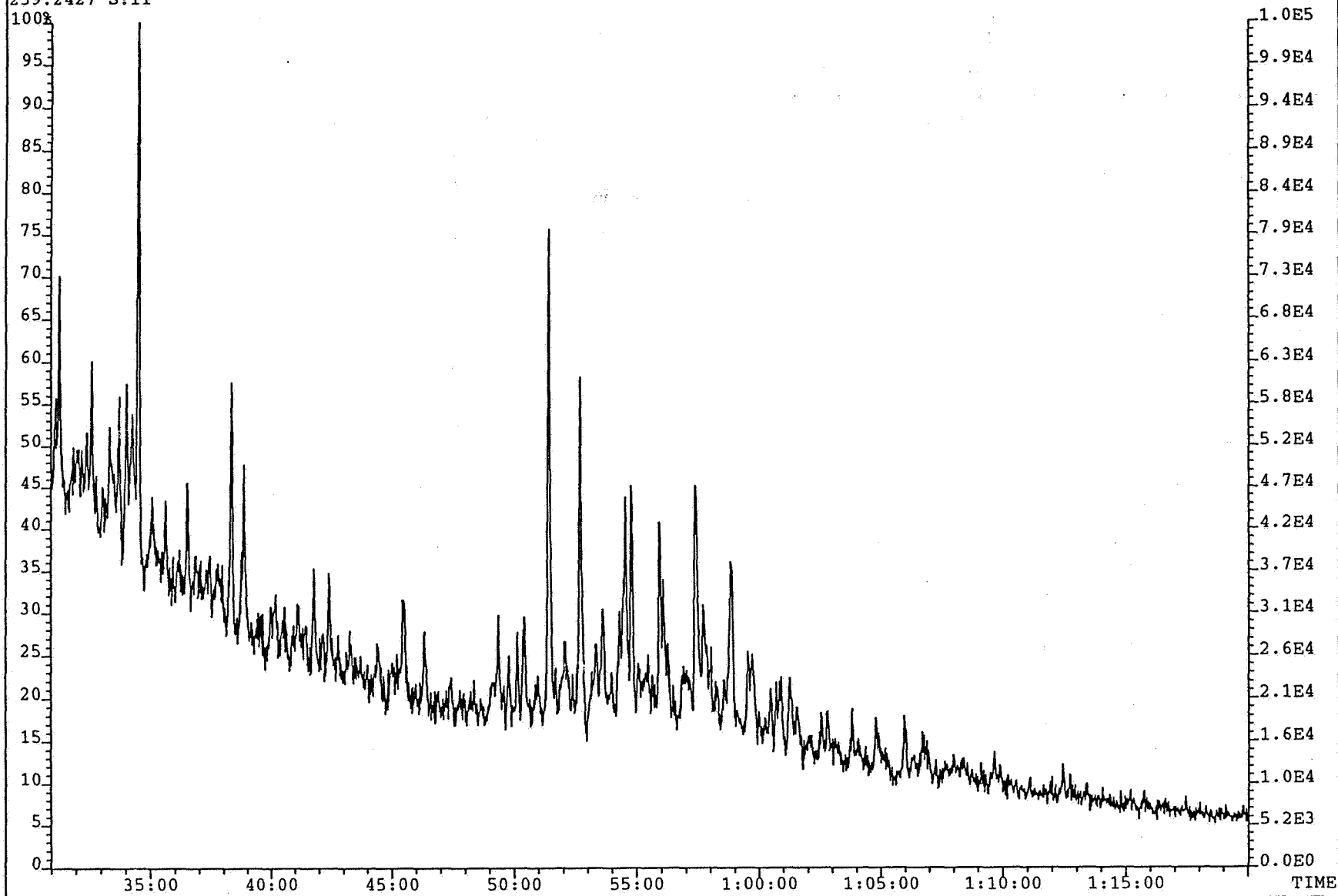


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
259.2427 S:11

Exp:SAT1



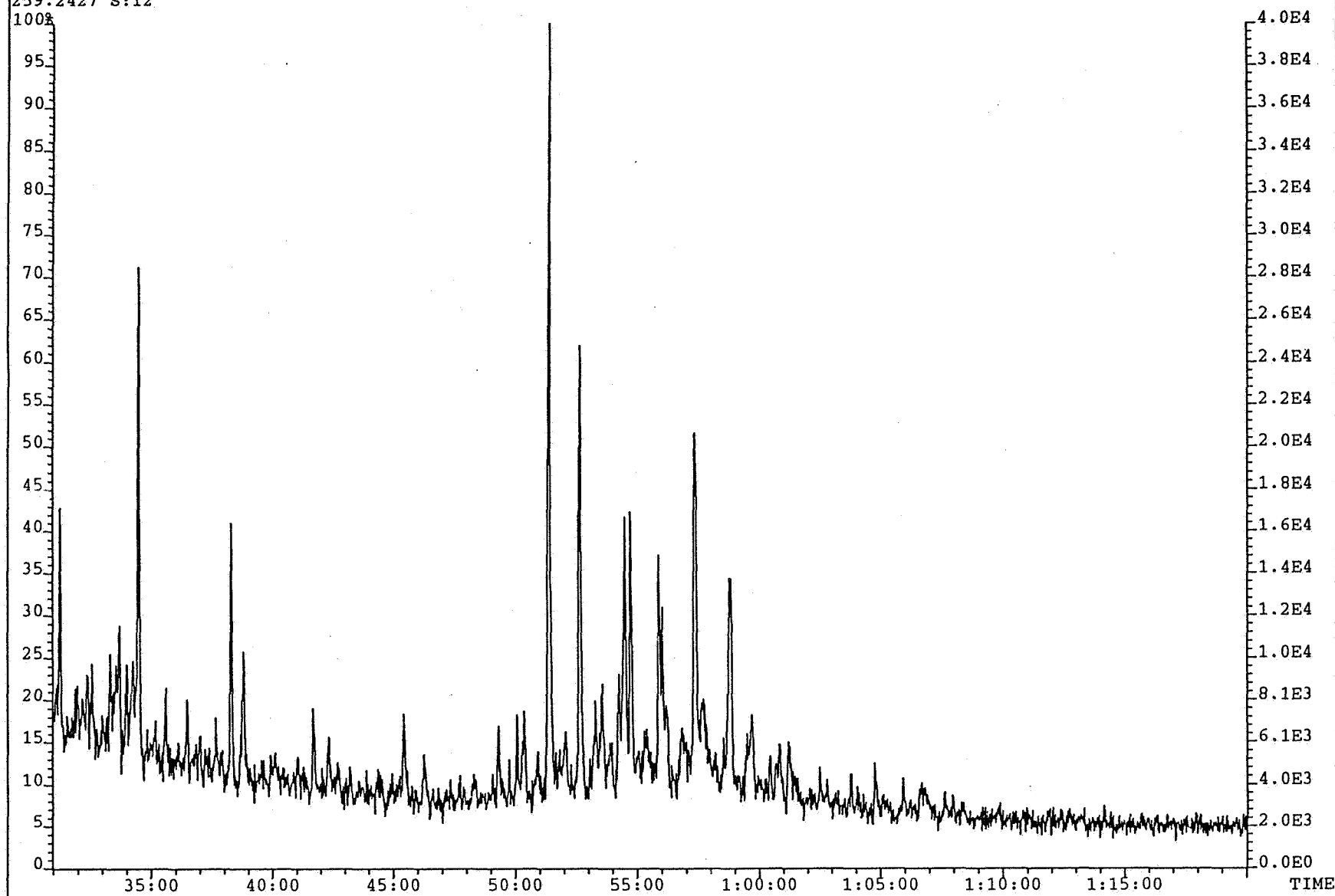
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
259.2427 S:12

Exp:SAT1



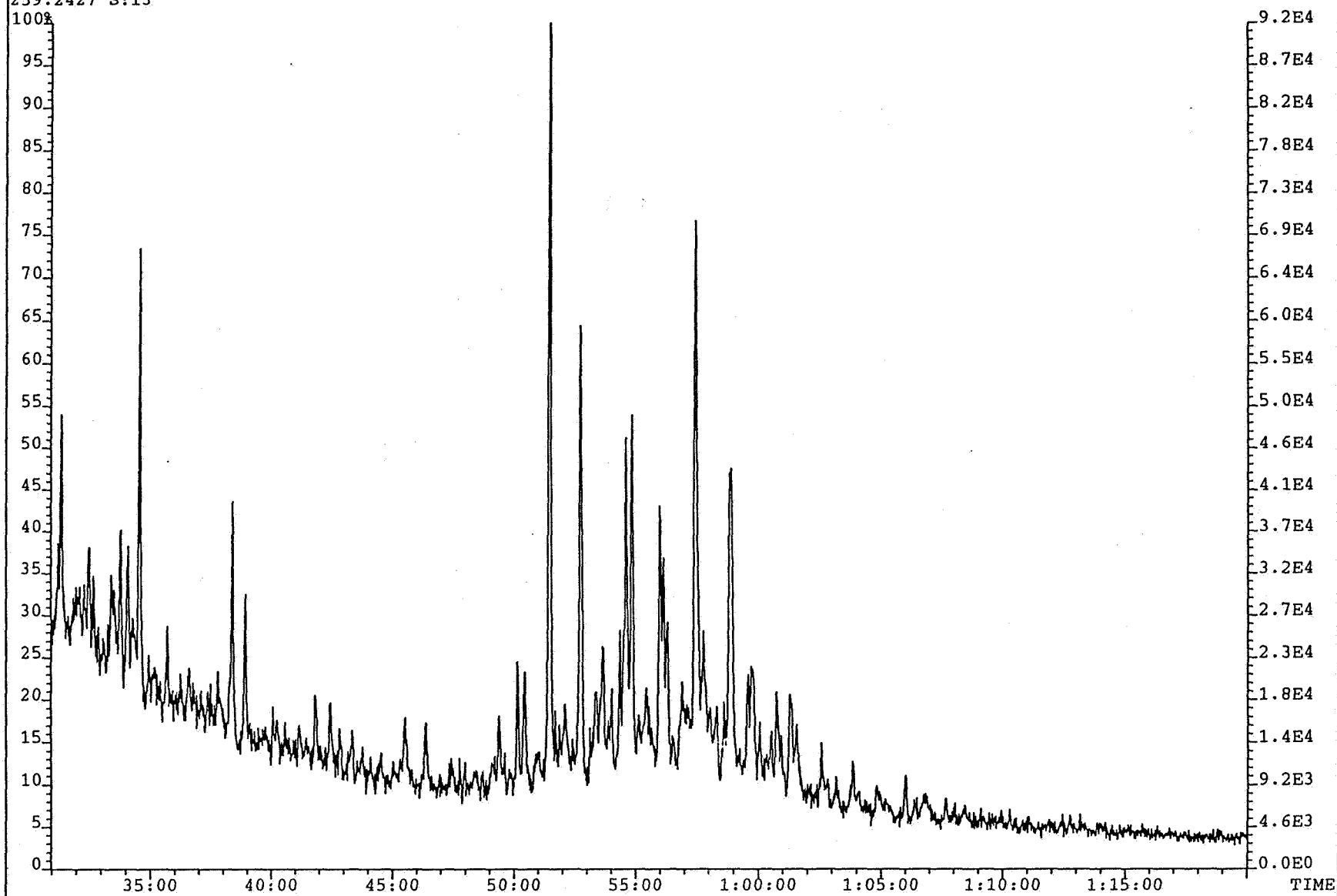
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
259.2427 S:13

Exp:SAT1



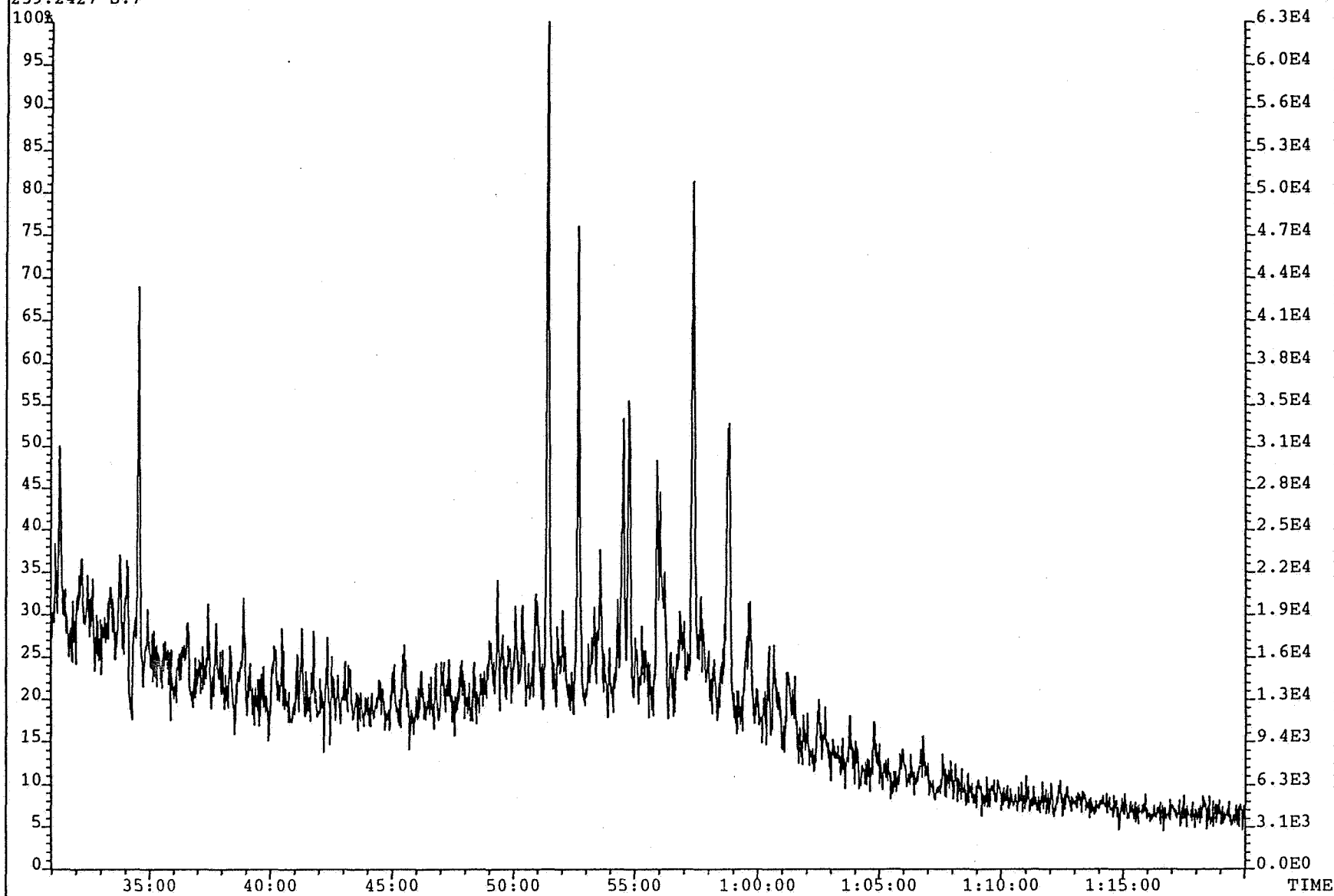
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
259.2427 S:7

Exp:SAT1



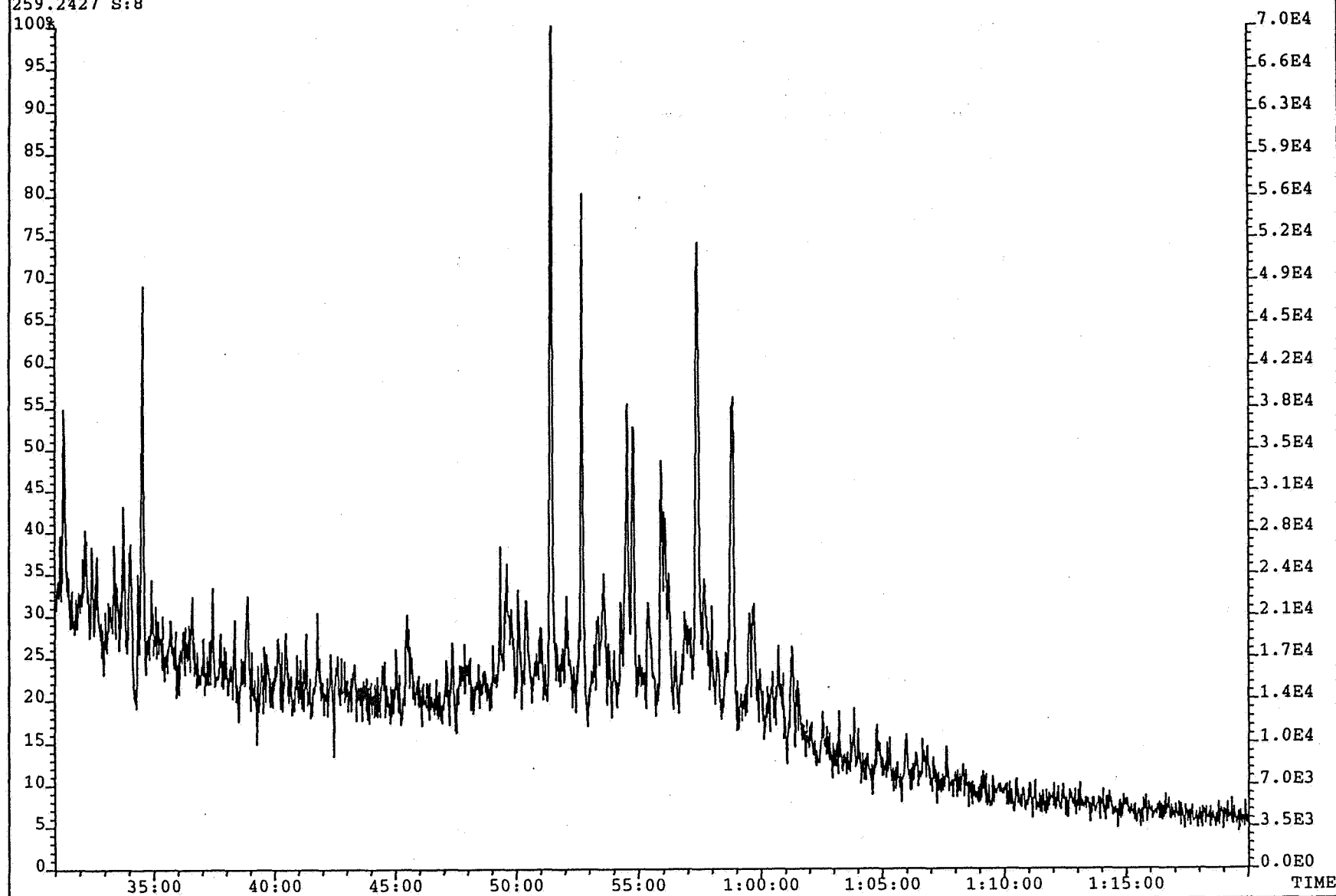
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
259.2427 S:8

Exp:SAT1

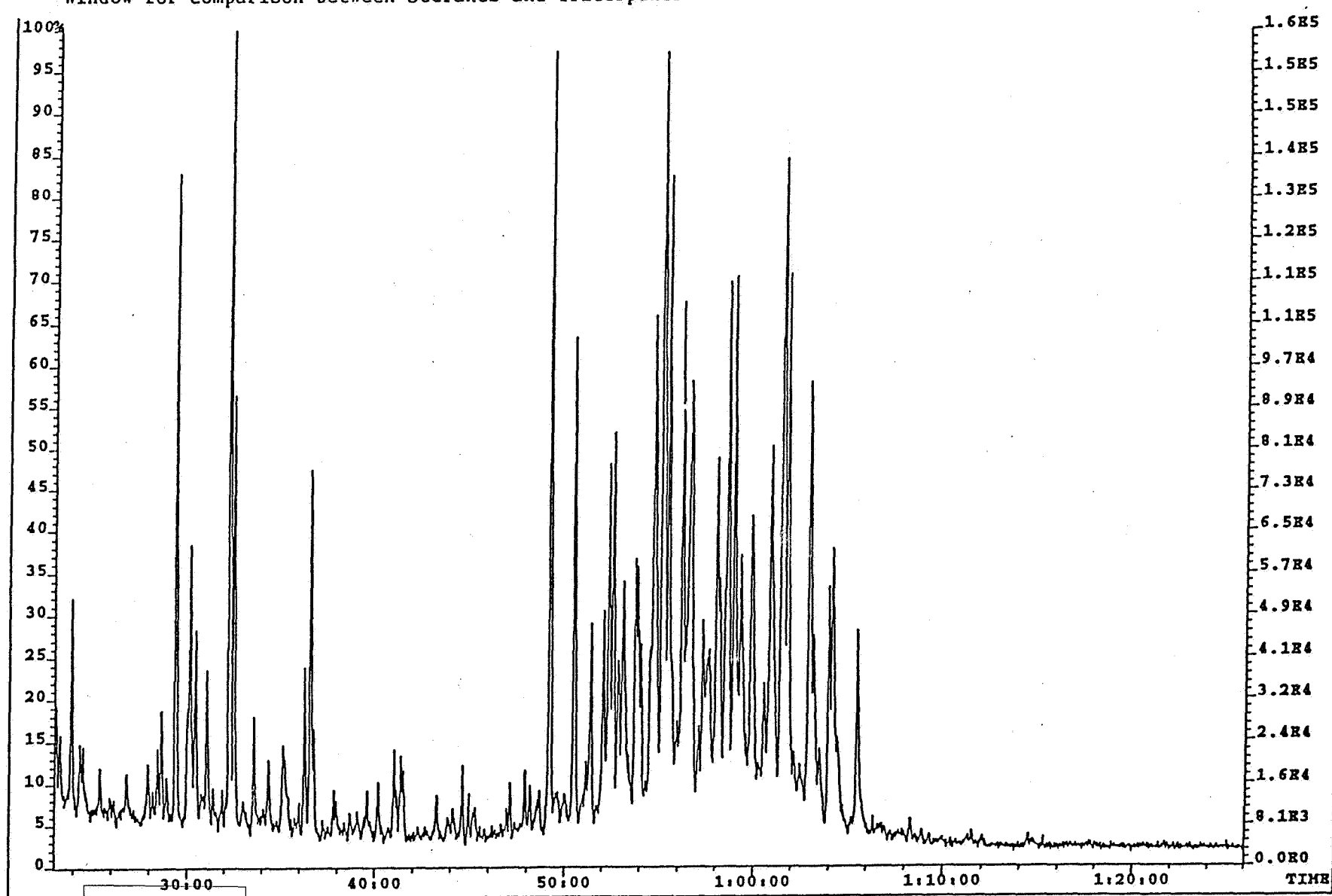


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GEOLAB NOR

M/Z 217 Fragmentograms, processed using the Triterpane
Window for comparison between Steranes and Triterpanes

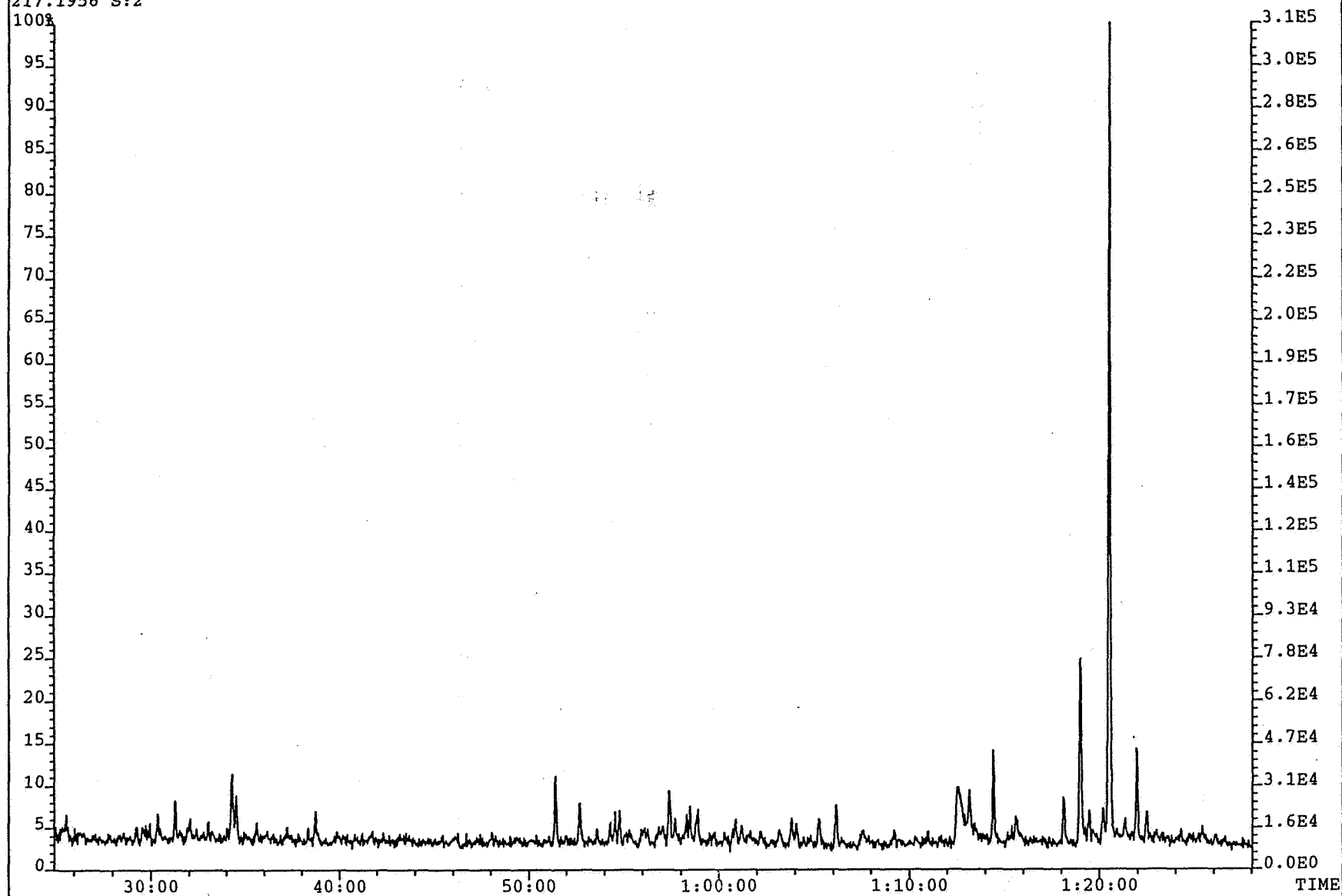


Schlumberger GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 1250M, EOM
217.1956 S:2

Exp:SAT1



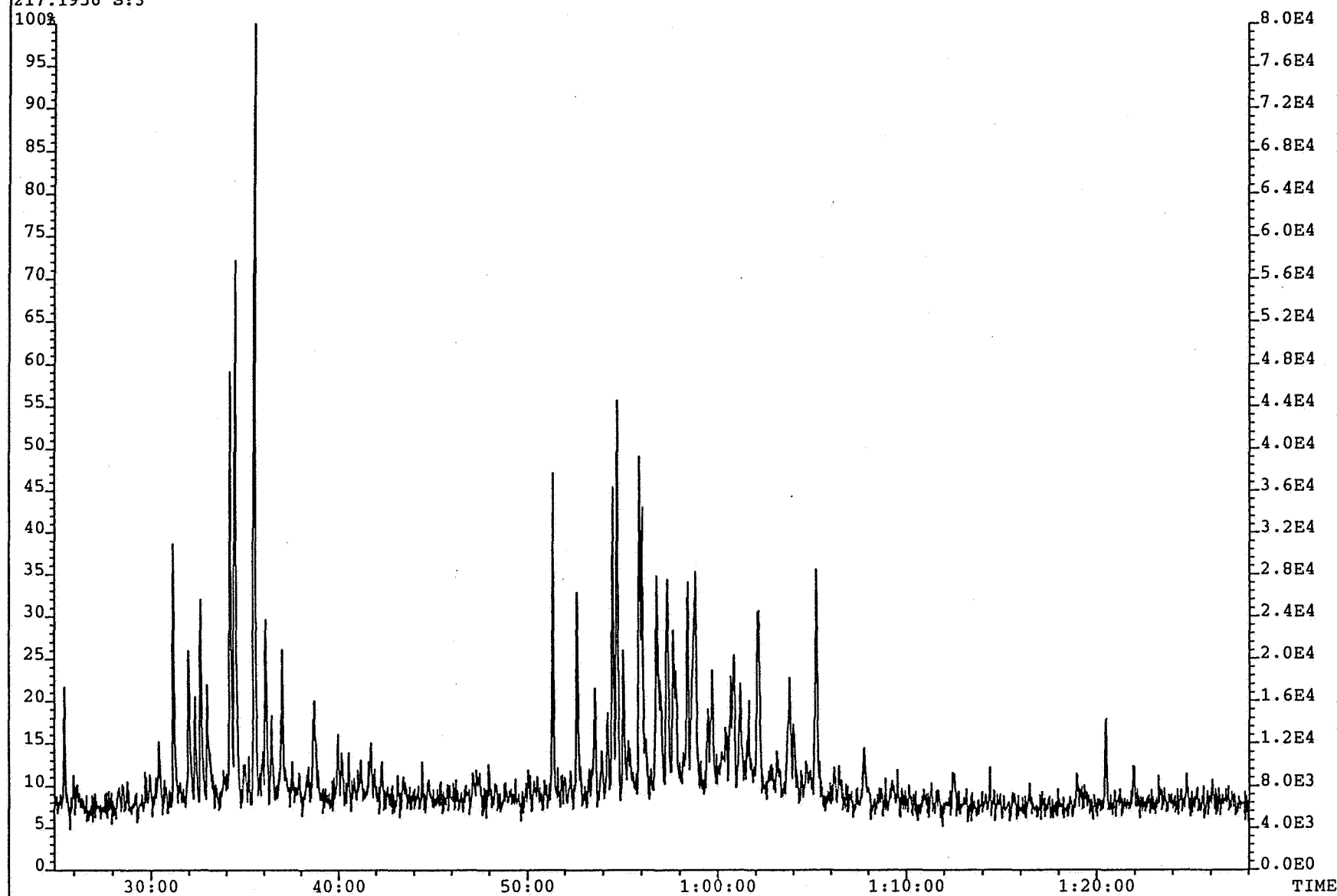
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 2970M, EOM
217.1956 S:3

Exp:SAT1



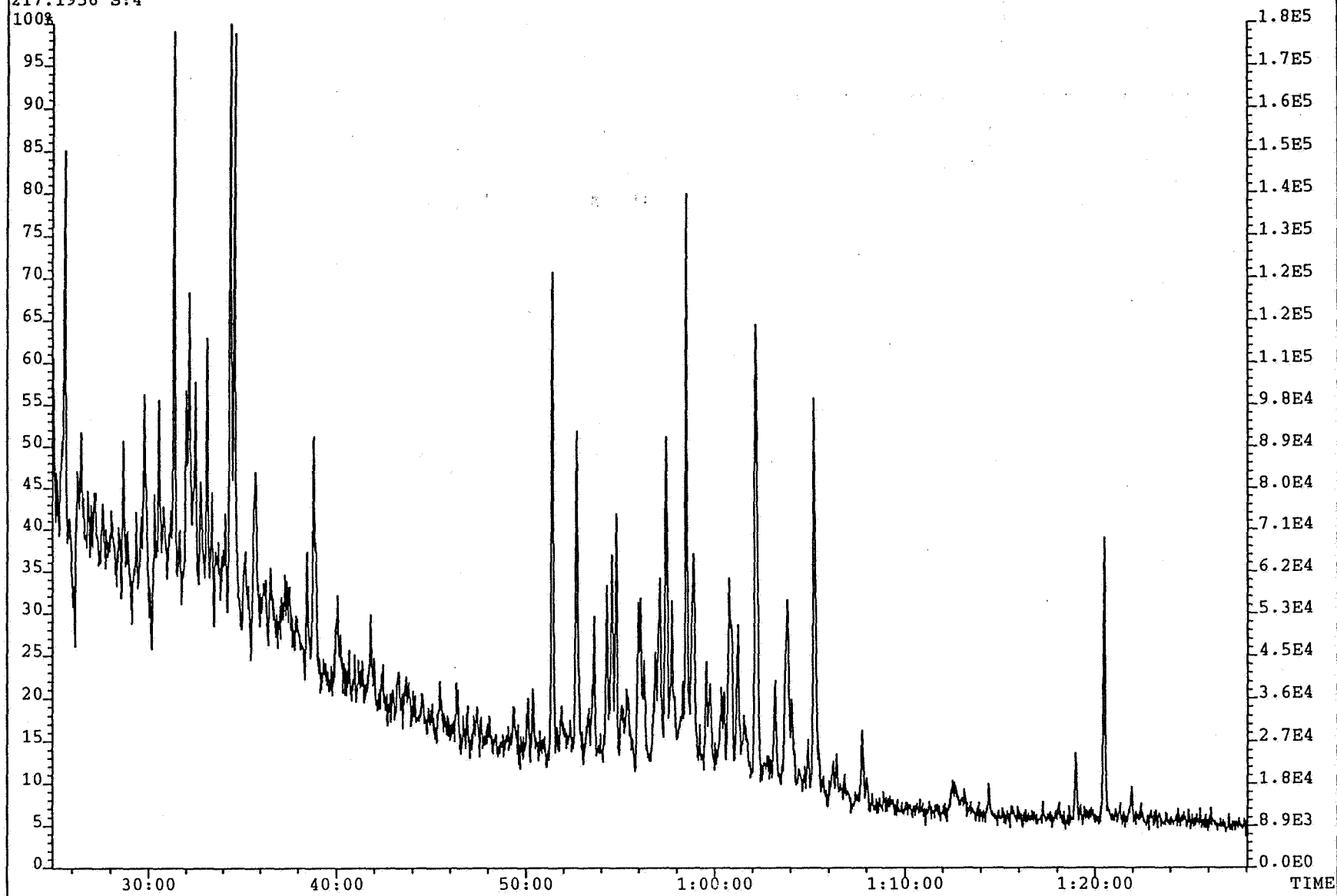
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3138.5M, EOM
217.1956 S:4

Exp:SAT1



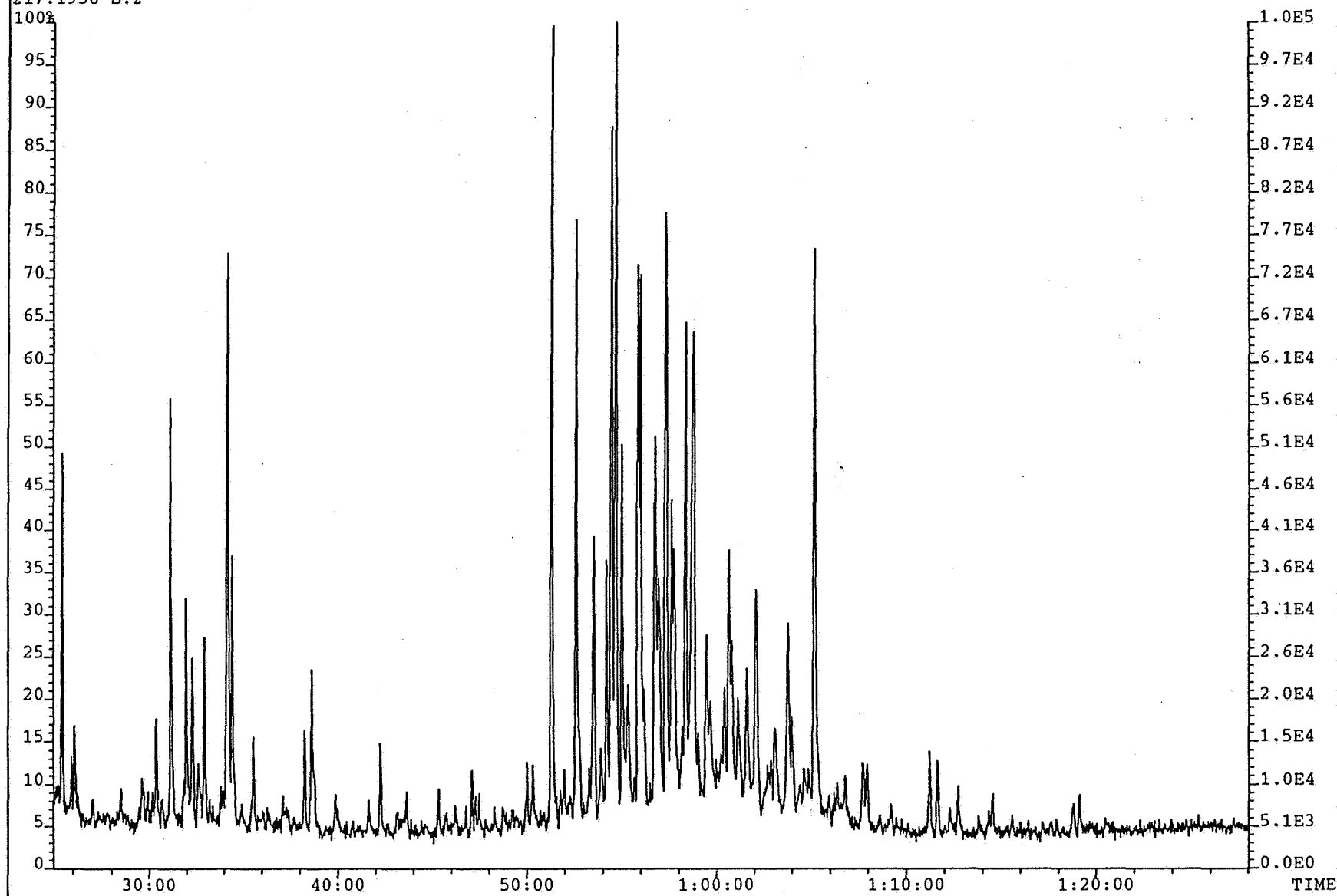
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#2 Text:WELL 6506/11-3, 3158.26M, SATURATED FRACTION
217.1956 S:2

Exp:SAT1



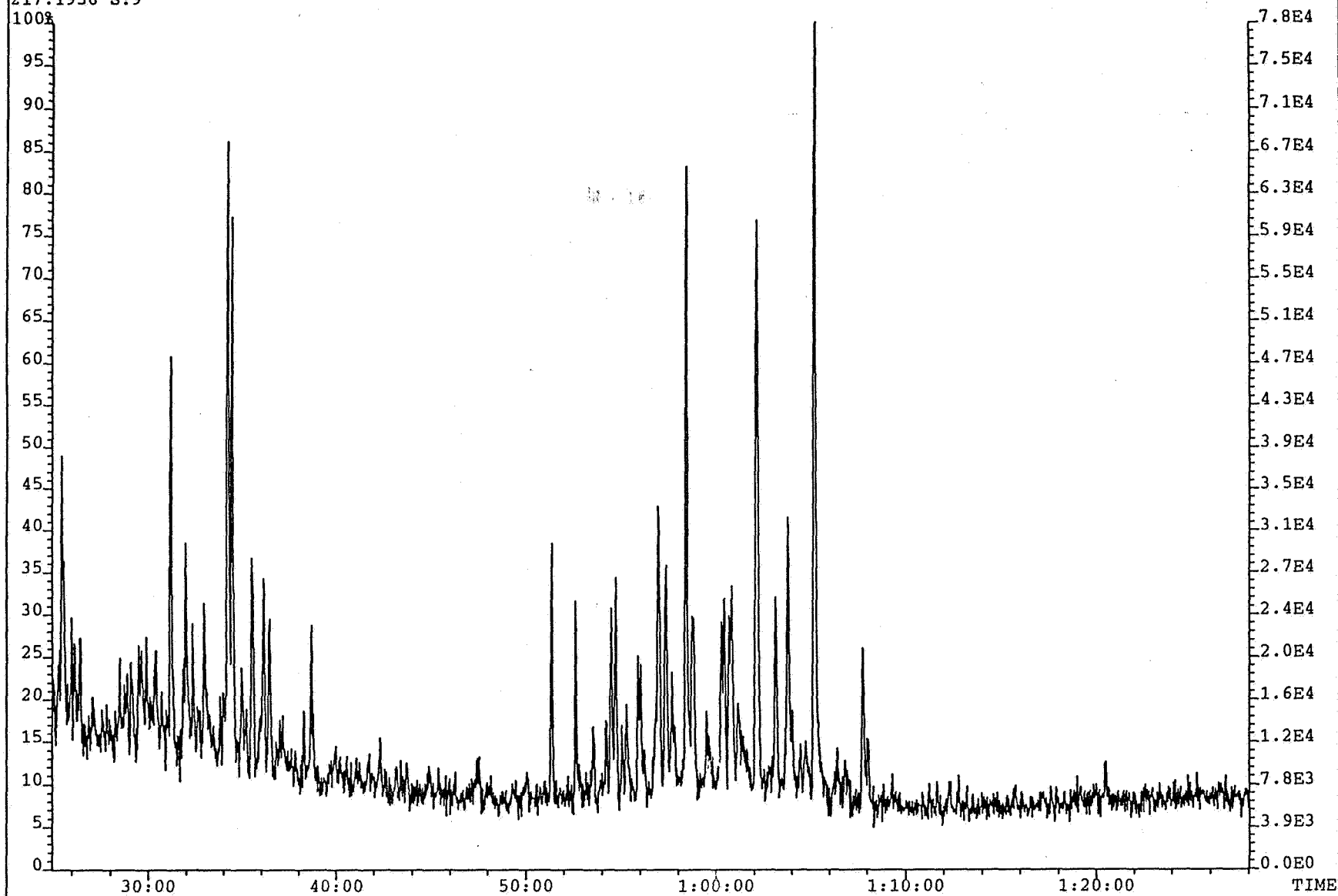
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 3420M, EOM
217.1956 S:9

Exp:SAT1



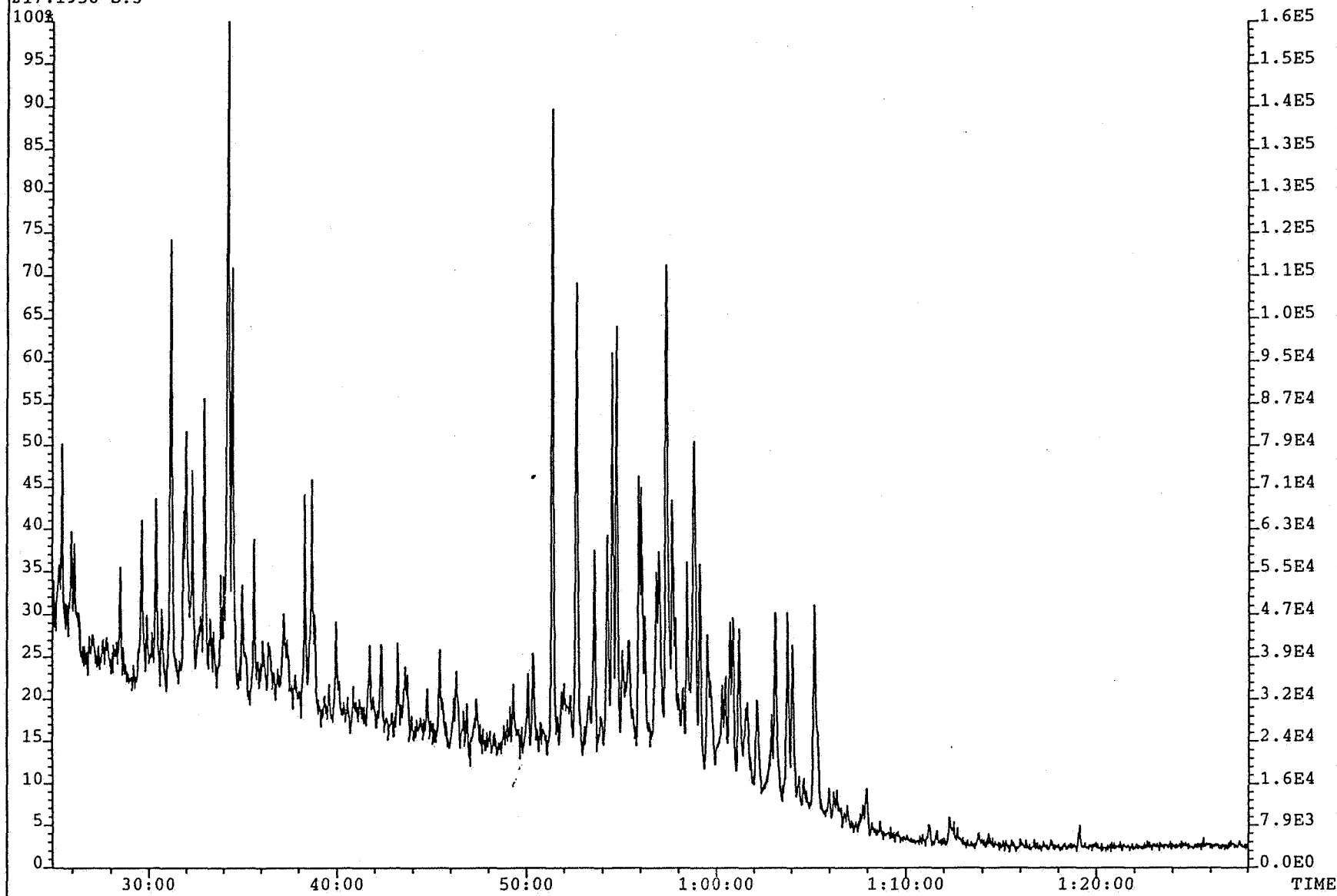
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#3 Text:WELL 6506/11-3, 3921.45M, SATURATED FRACTION
217.1956 S:3

Exp:SAT1



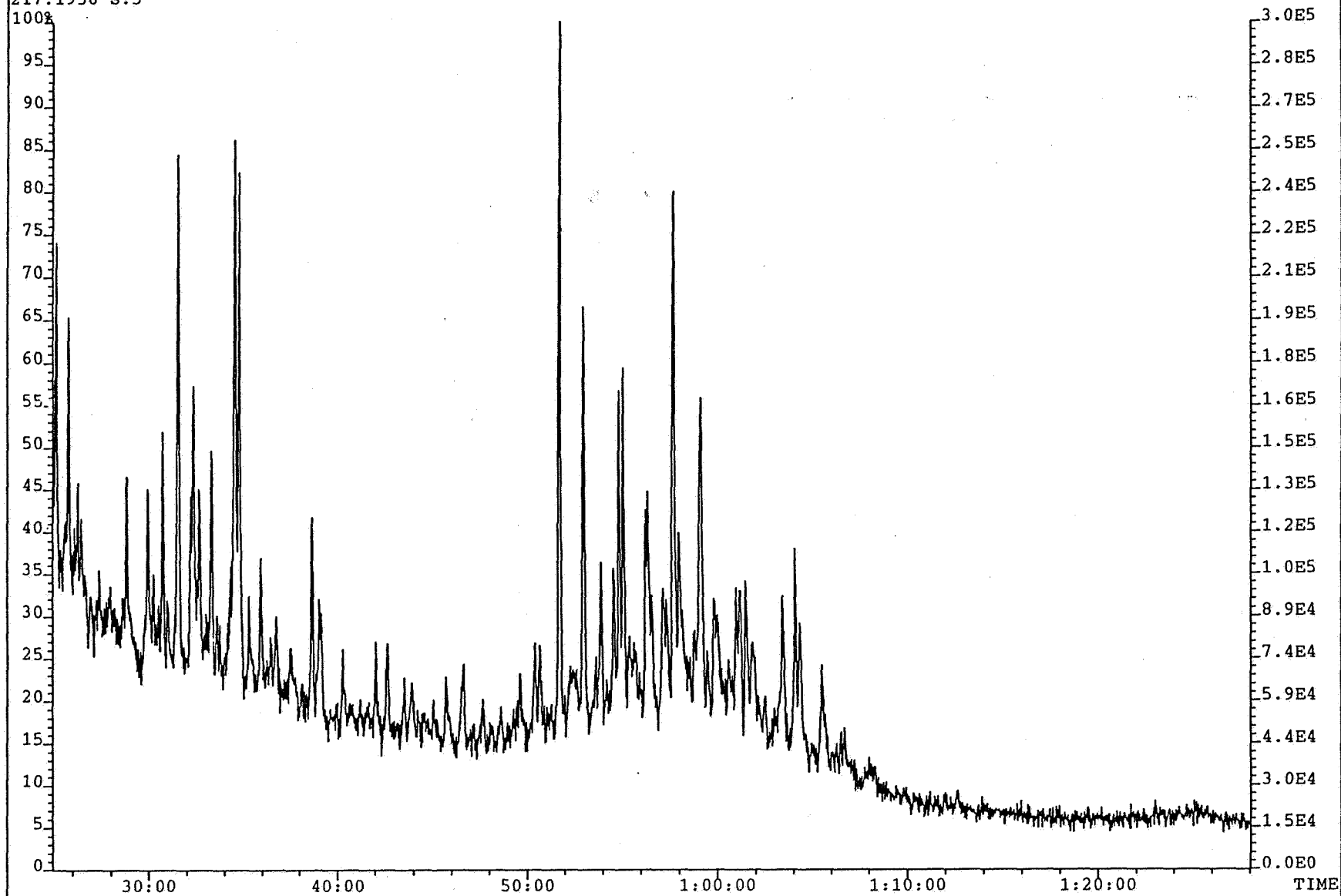
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:GEOUKSAT #1-4895 Acq:6-JAN-93 17:02:26 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, RFT , 3937M, SATURATED FRACTION FROM OIL
217.1956 S:5

Exp:SAT1



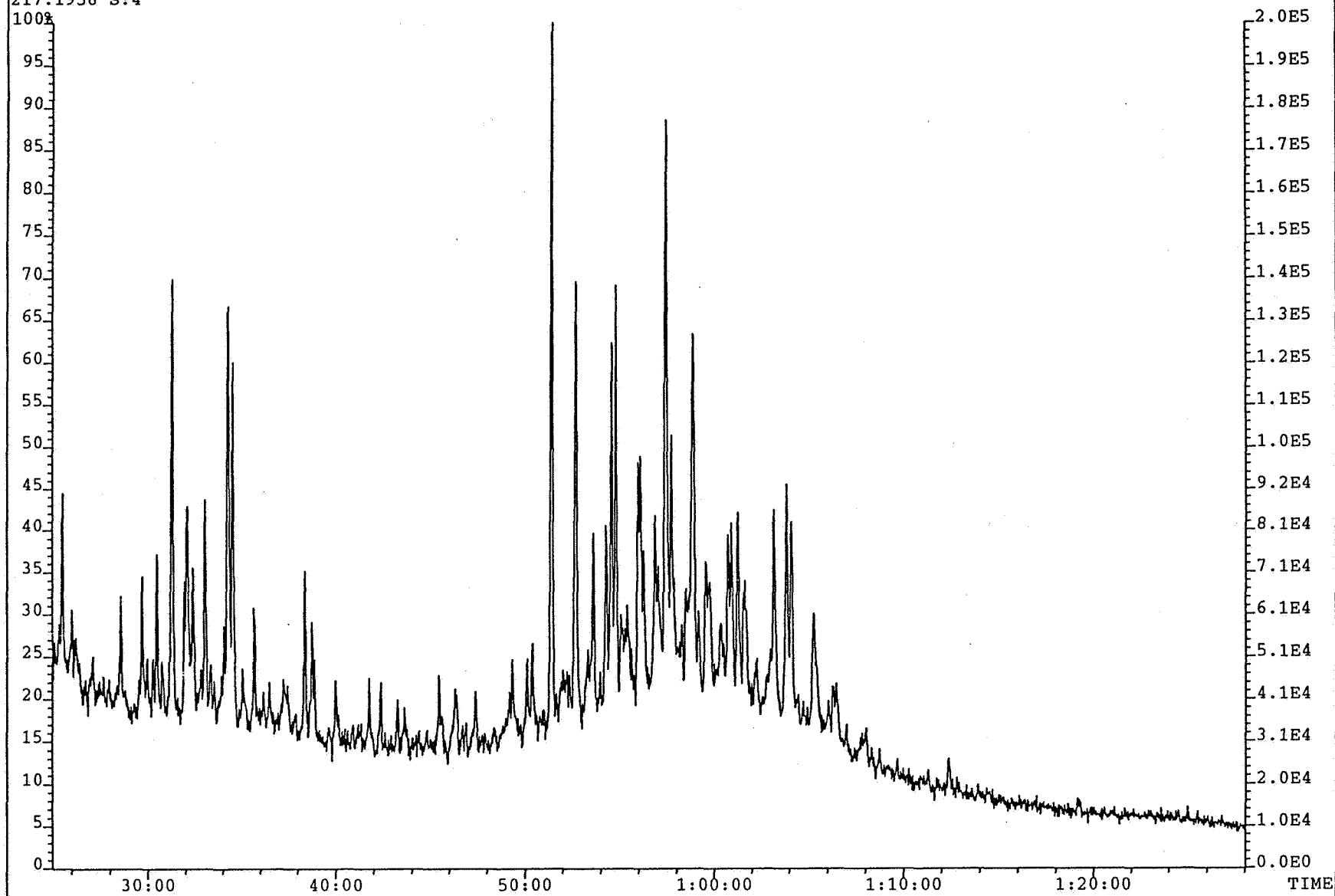
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#4 Text:WELL 6506/11-3, 3937.20M, SATURATED FRACTION
217.1956 S:4

Exp:SAT1

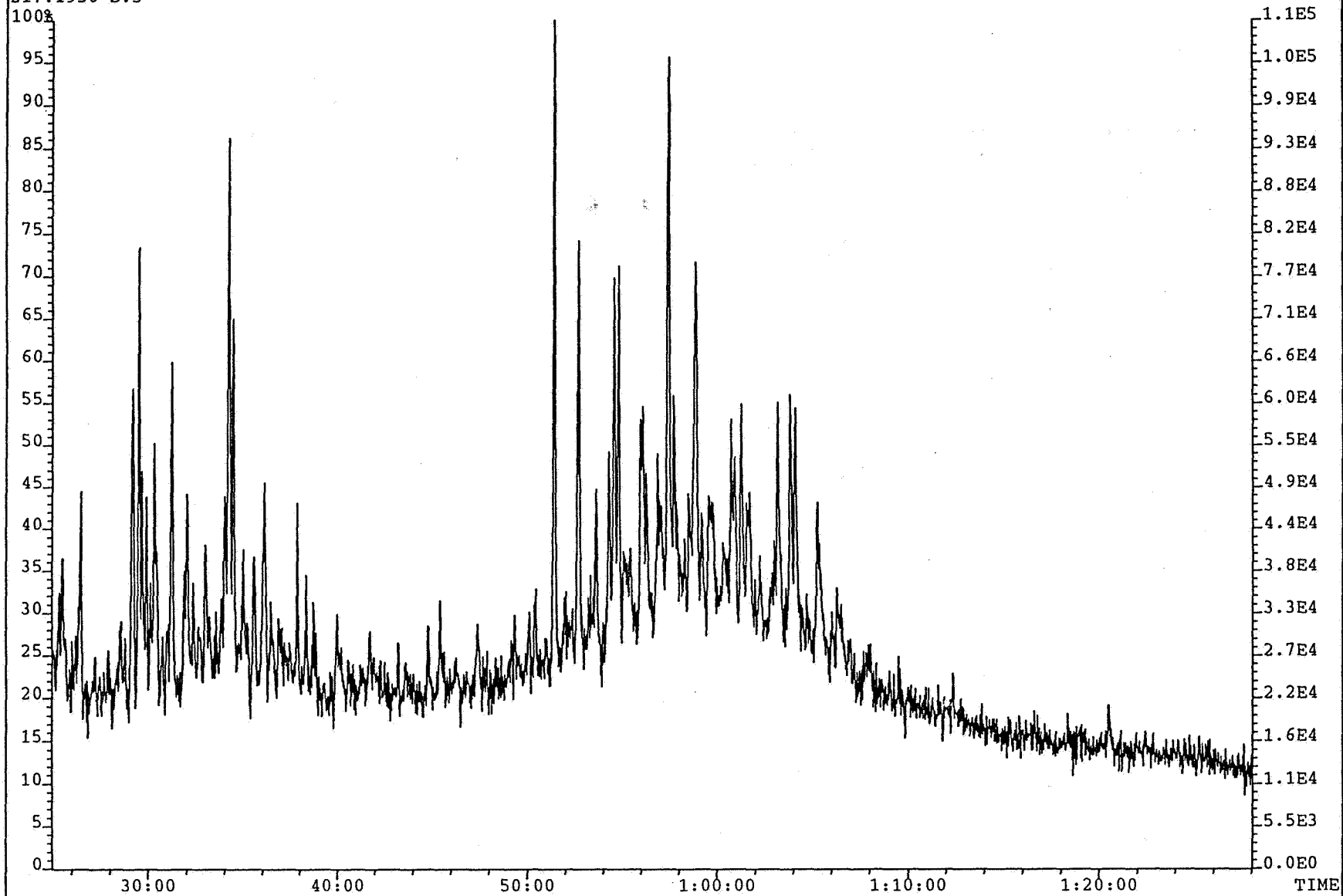


Schlumberger GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3938.11M, EOM
217.1956 S:5

Exp:SAT1



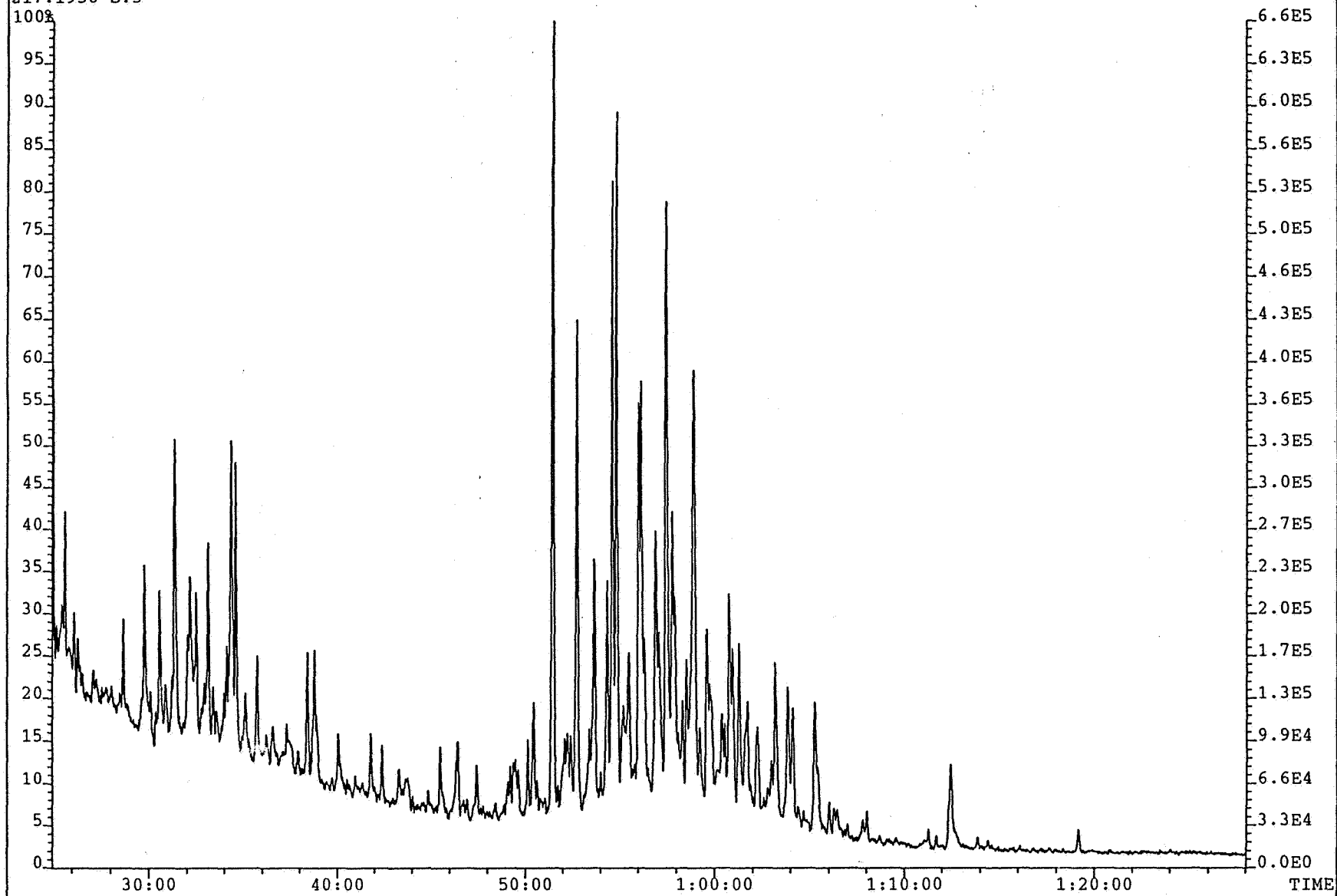
Schlumberger

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GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#5 Text:WELL 6506/11-3, 3944.73M, SATURATED FRACTION
217.1956 S:5

Exp:SAT1

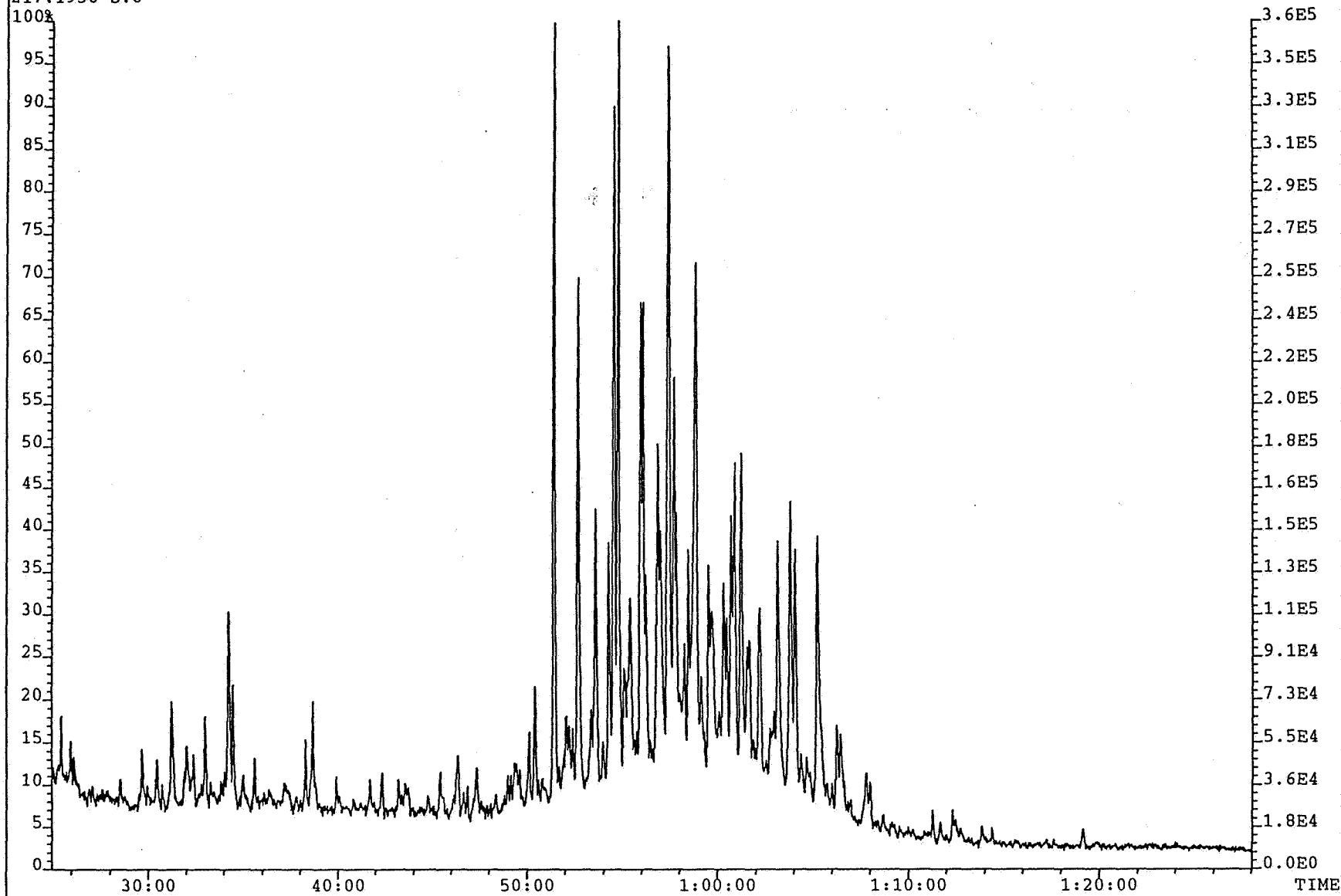


Schlumberger GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3976.84M, SATURATED FRACTION
217.1956 S:6

Exp:SAT1



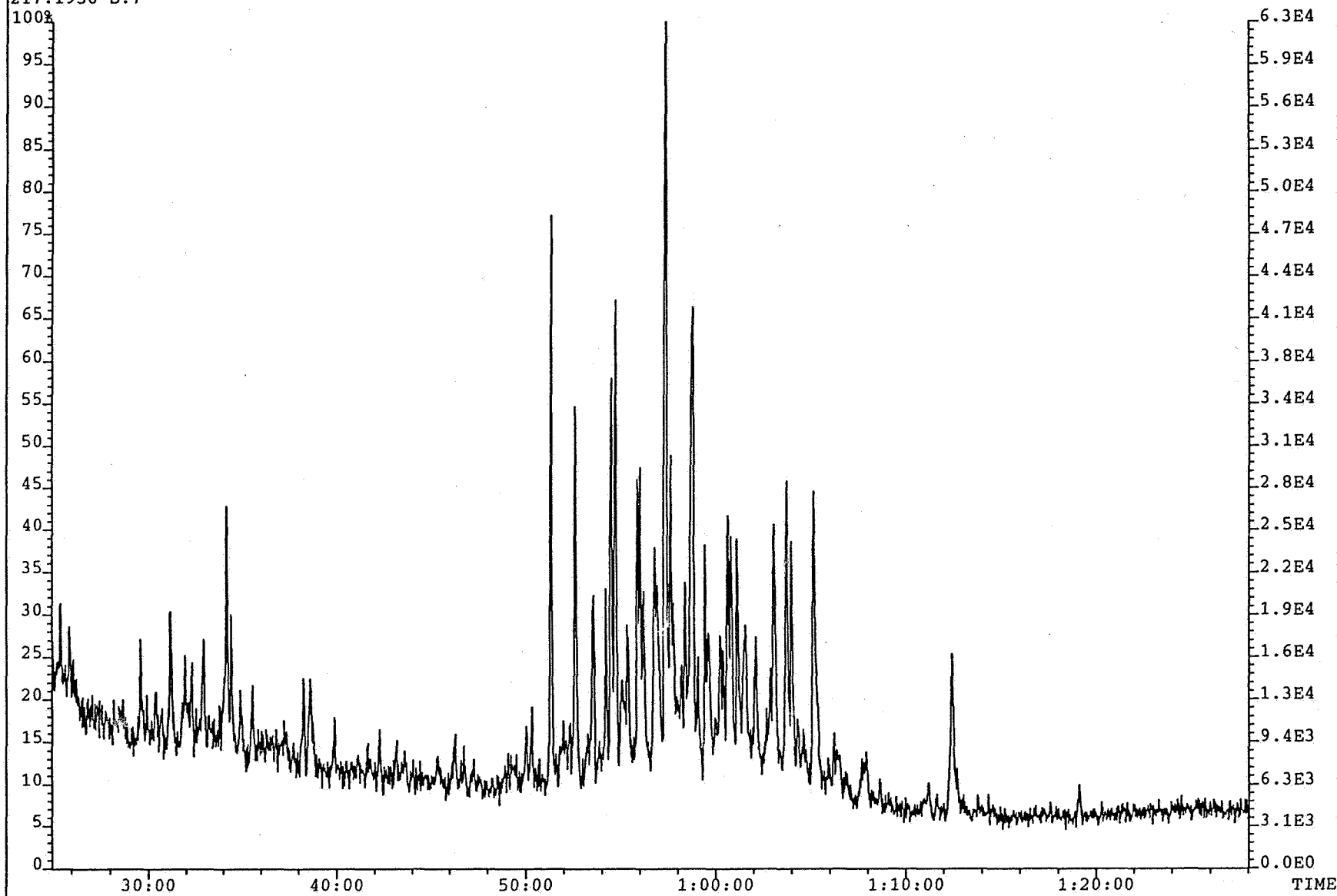
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 3984.39M, SATURATED FRACTION
217.1956 S:7

Exp:SAT1



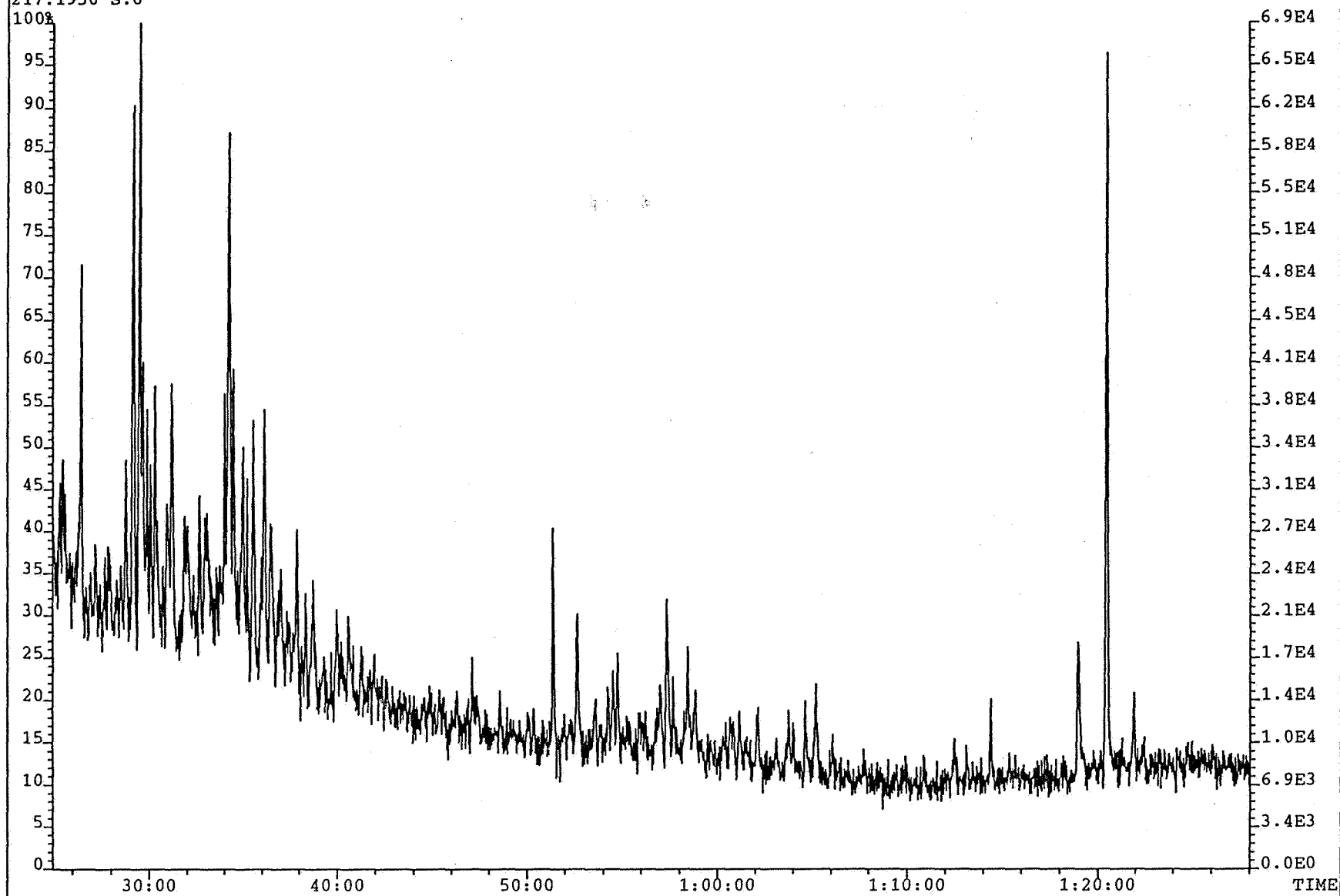
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAB #1-4338 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#6 Text:WELL 6506/11-3, 3984.59M, EOM
217.1956 S:6

Exp:SAT1



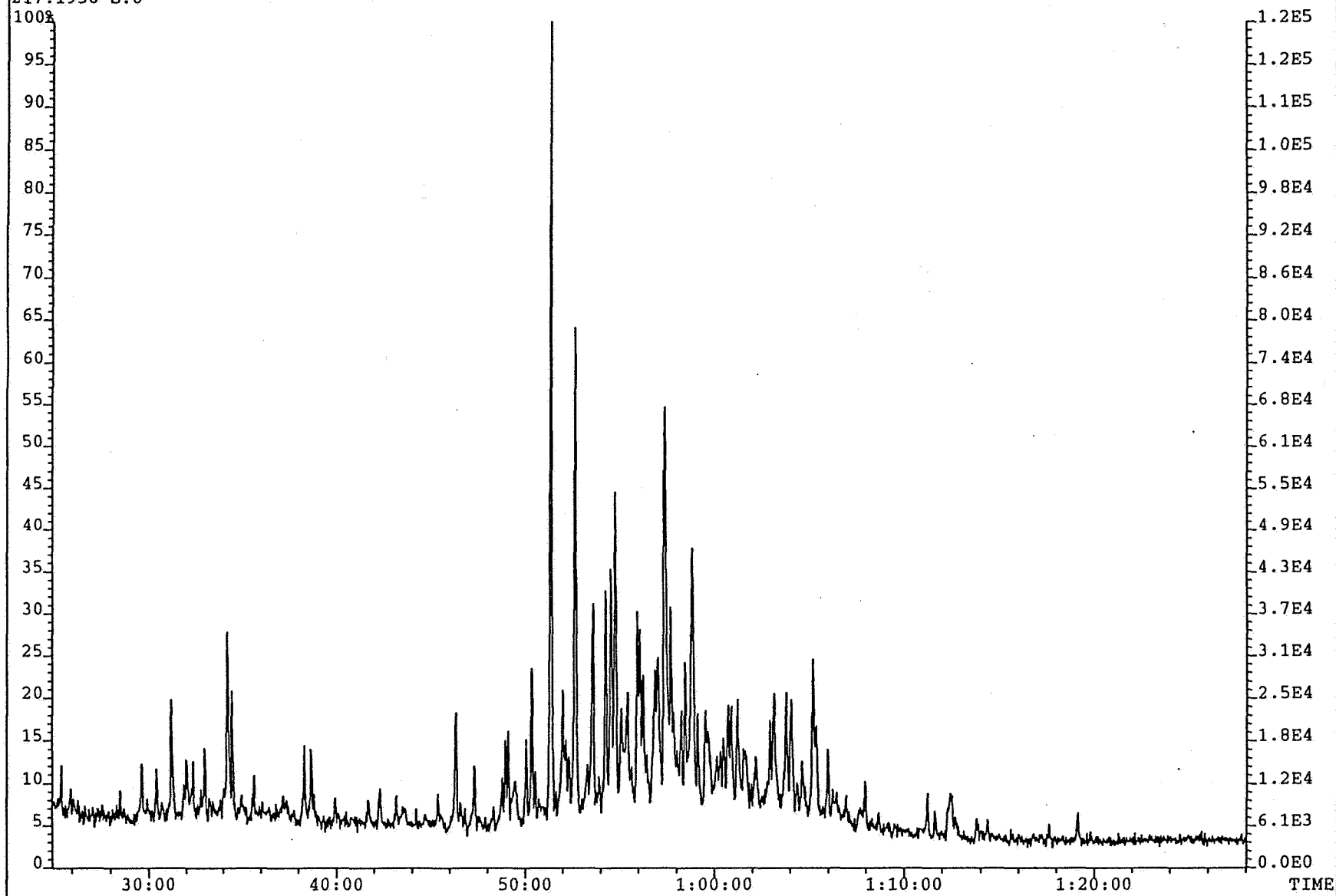
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 3986.50M, SATURATED FRACTION
217.1956 S:8

Exp:SAT1



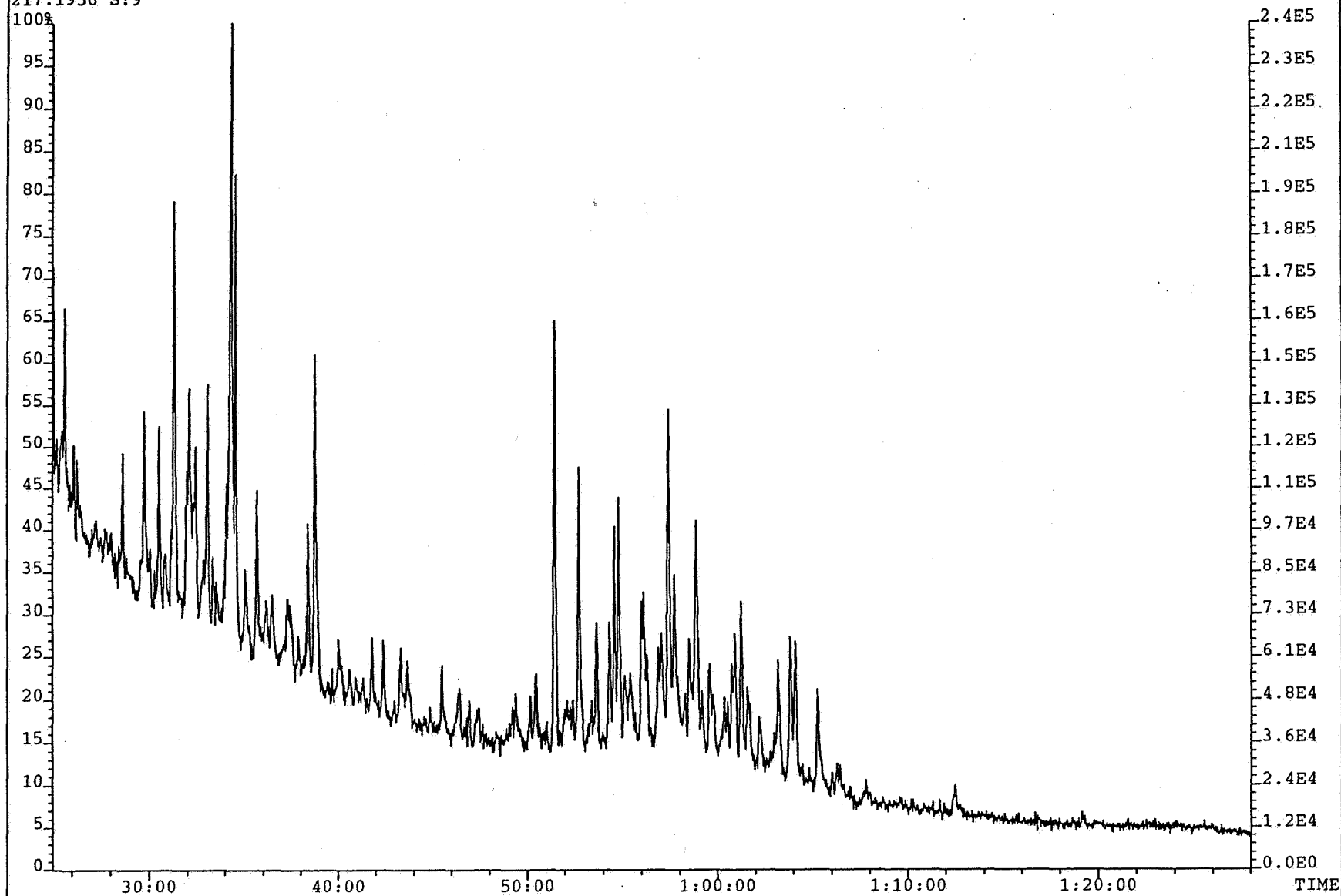
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#9 Text:WELL 6506/11-3, 4150M, SATURATED FRACTION
217.1956 S:9

Exp:SAT1



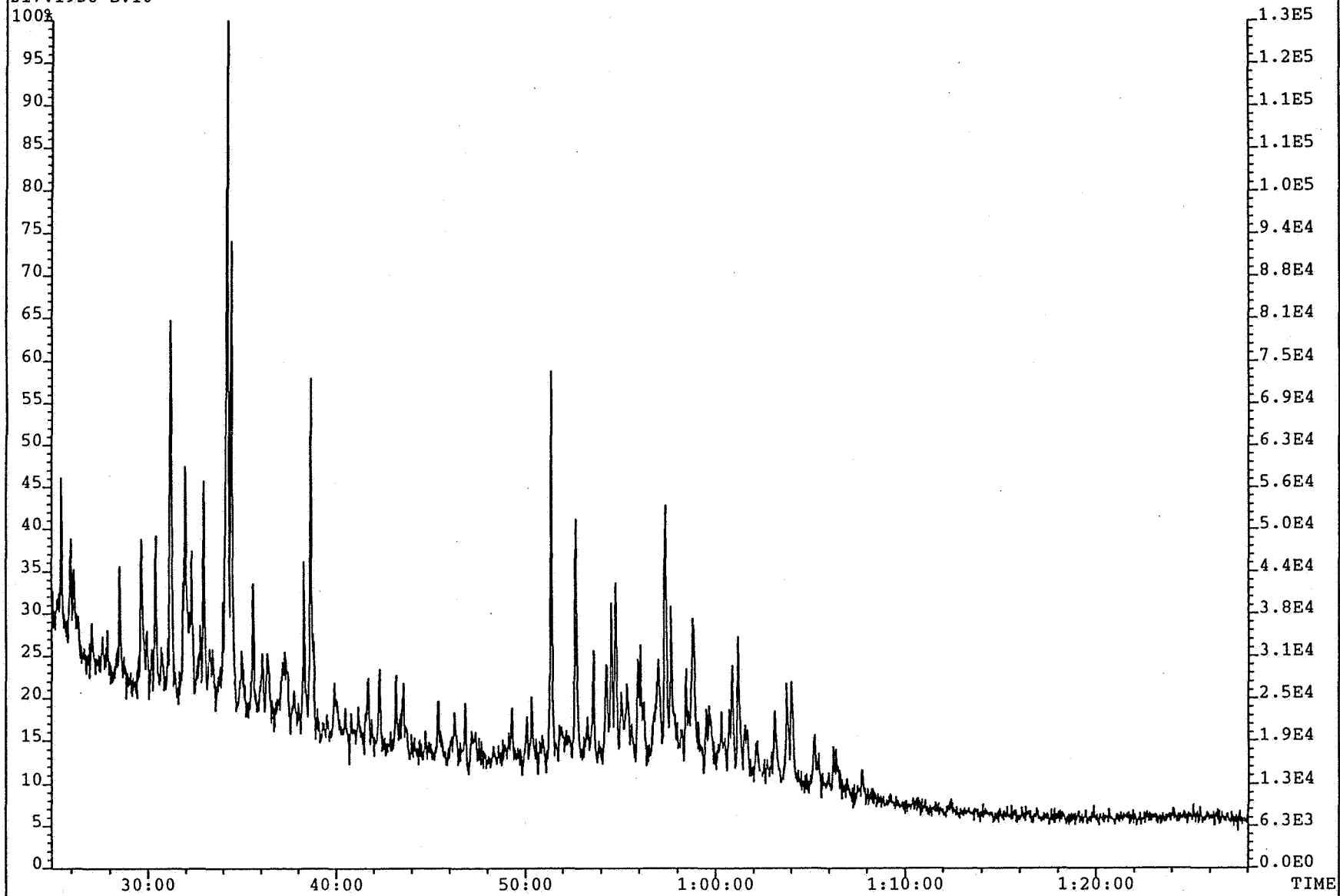
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#10 Text:WELL 6506/11-3, 4168.5M, SATURATED FRACTION
217.1956 S:10

Exp:SAT1

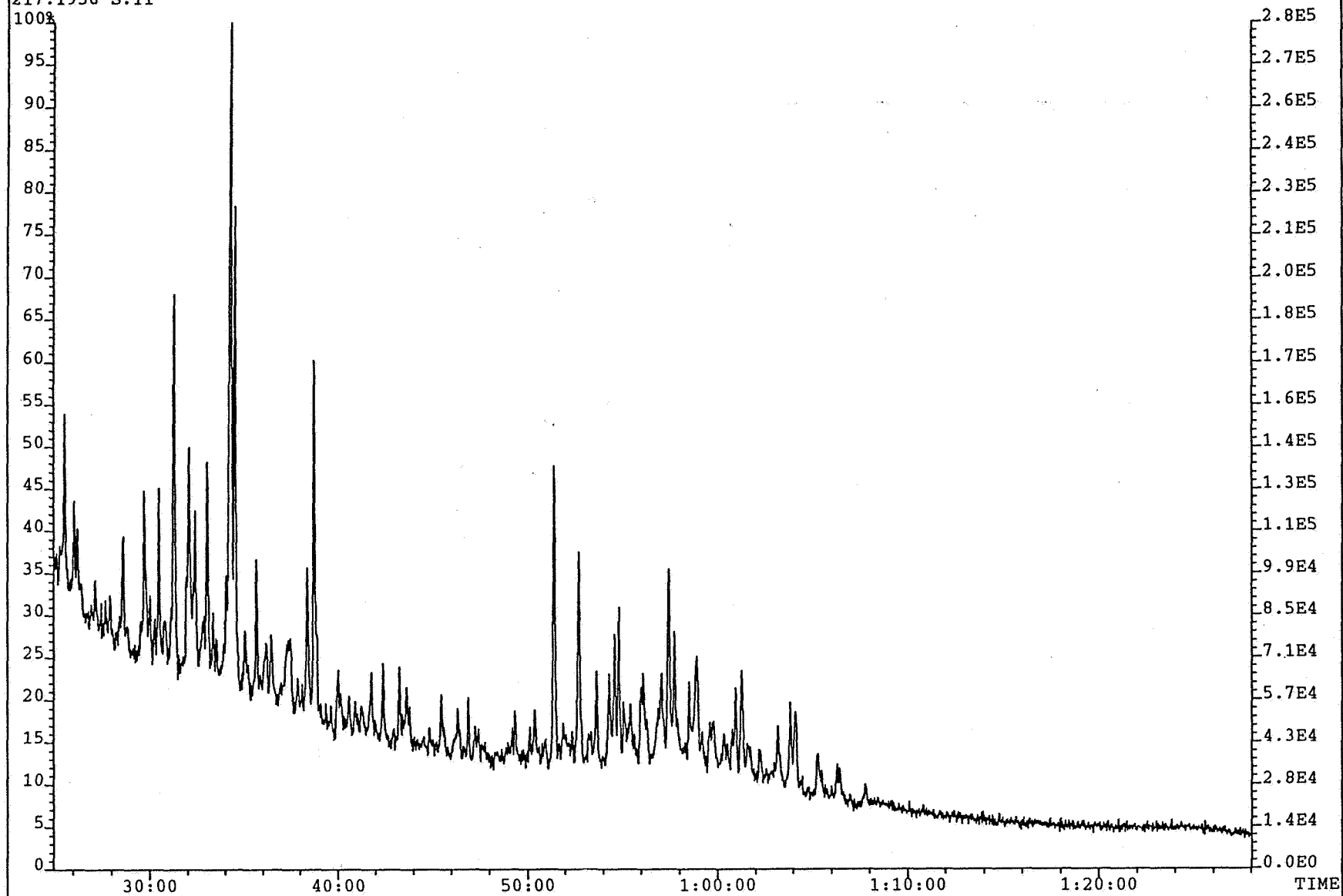


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GEOLAB  NOR

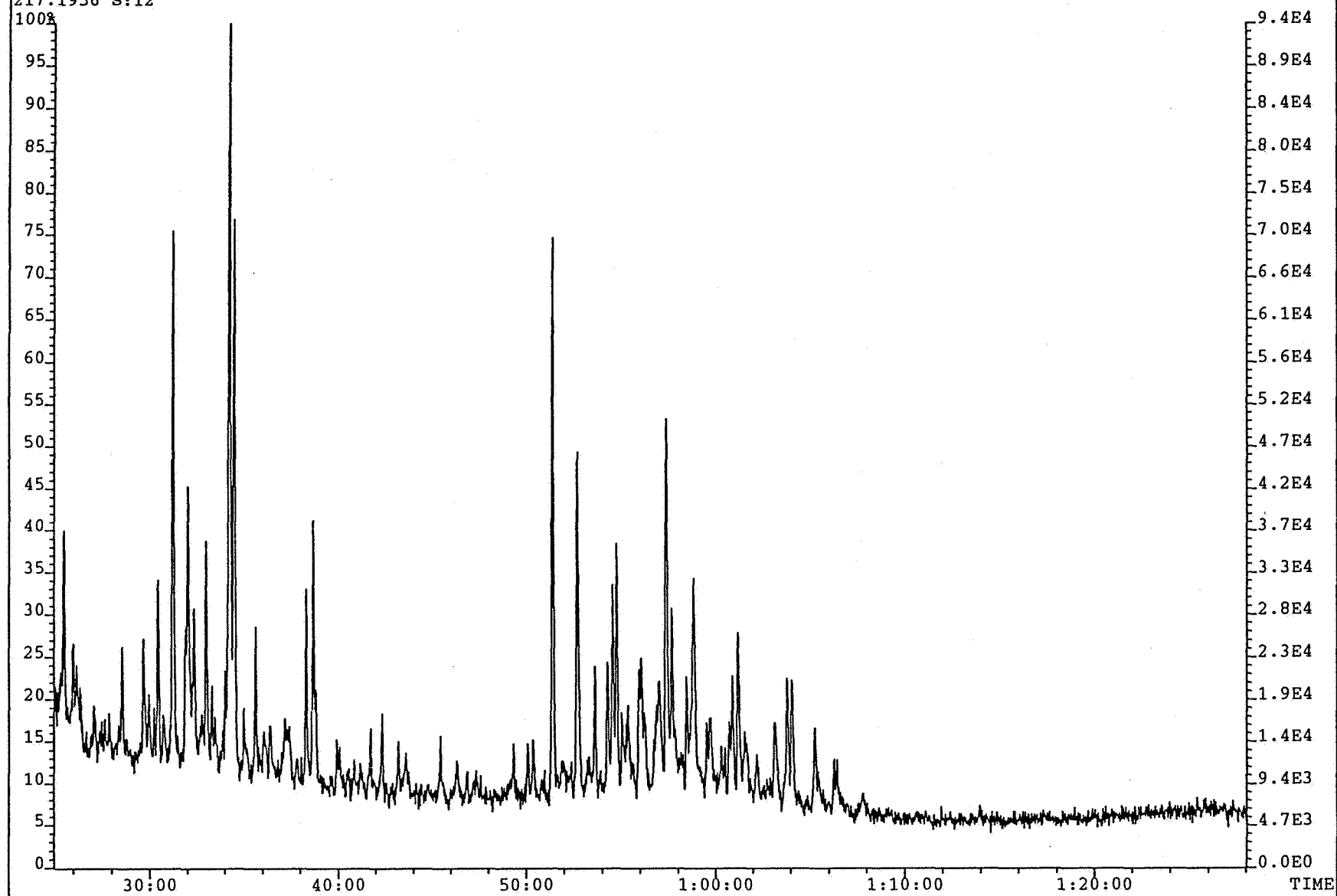
File:STATSAA #1-4340 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#11 Text:WELL 6506/11-3, 4170M, SATURATED FRACTION
217.1956 S:11

Exp:SAT1



File:STATSAA #1-4339 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#12 Text:WELL 6506/11-3, 4173.44M, SATURATED FRACTION
217.1956 S:12

Exp:SAT1

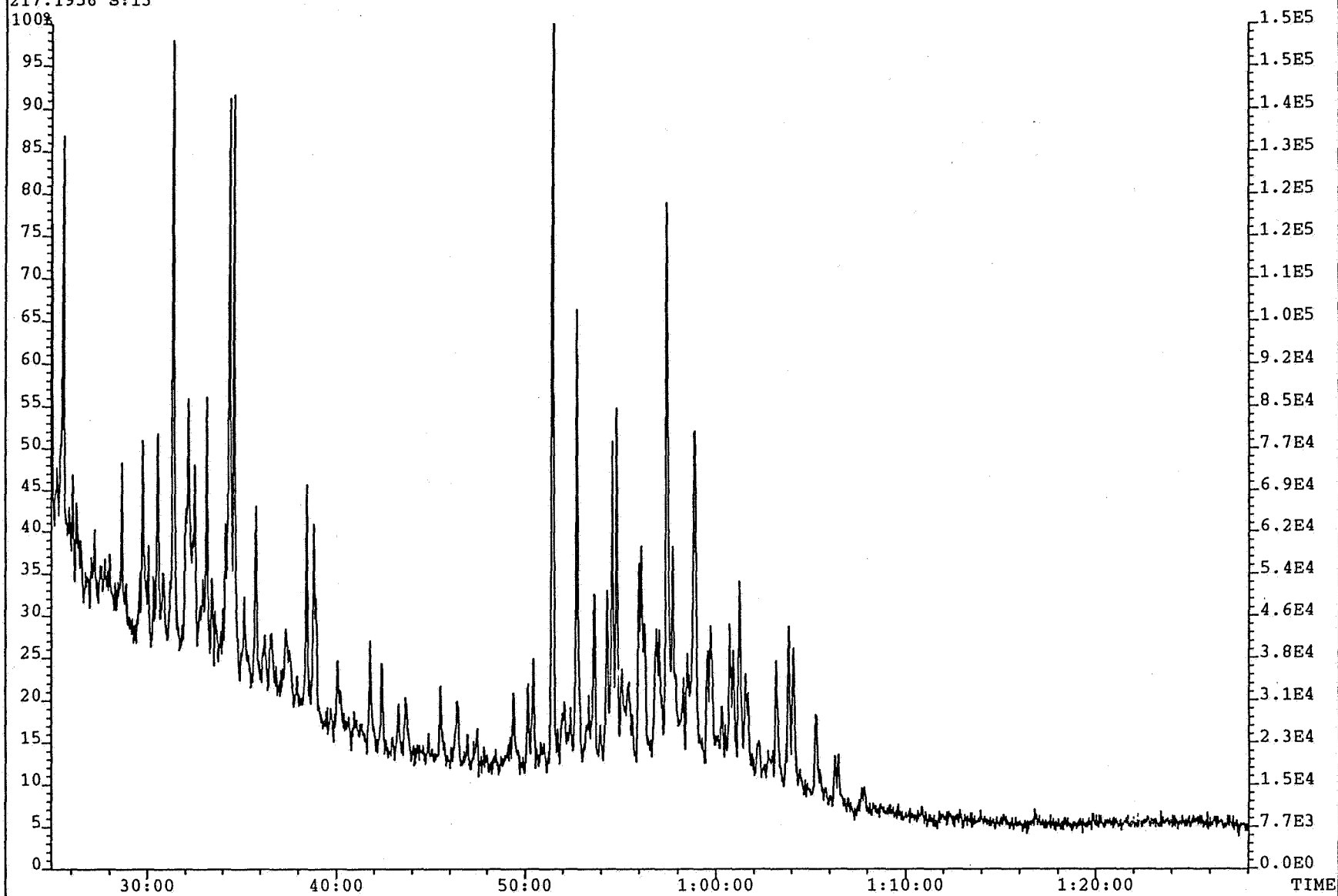


Schlumberger GECO-PRAKLA

GEOLAB  NOR

File:STATSAA #1-4338 Acq:23-DEC-1992 11:03:58 EI+ Magnet SIR
Sample#13 Text:WELL 6506/11-3, 4198.21M, SATURATED FRACTION
217.1956 S:13

Exp:SAT1



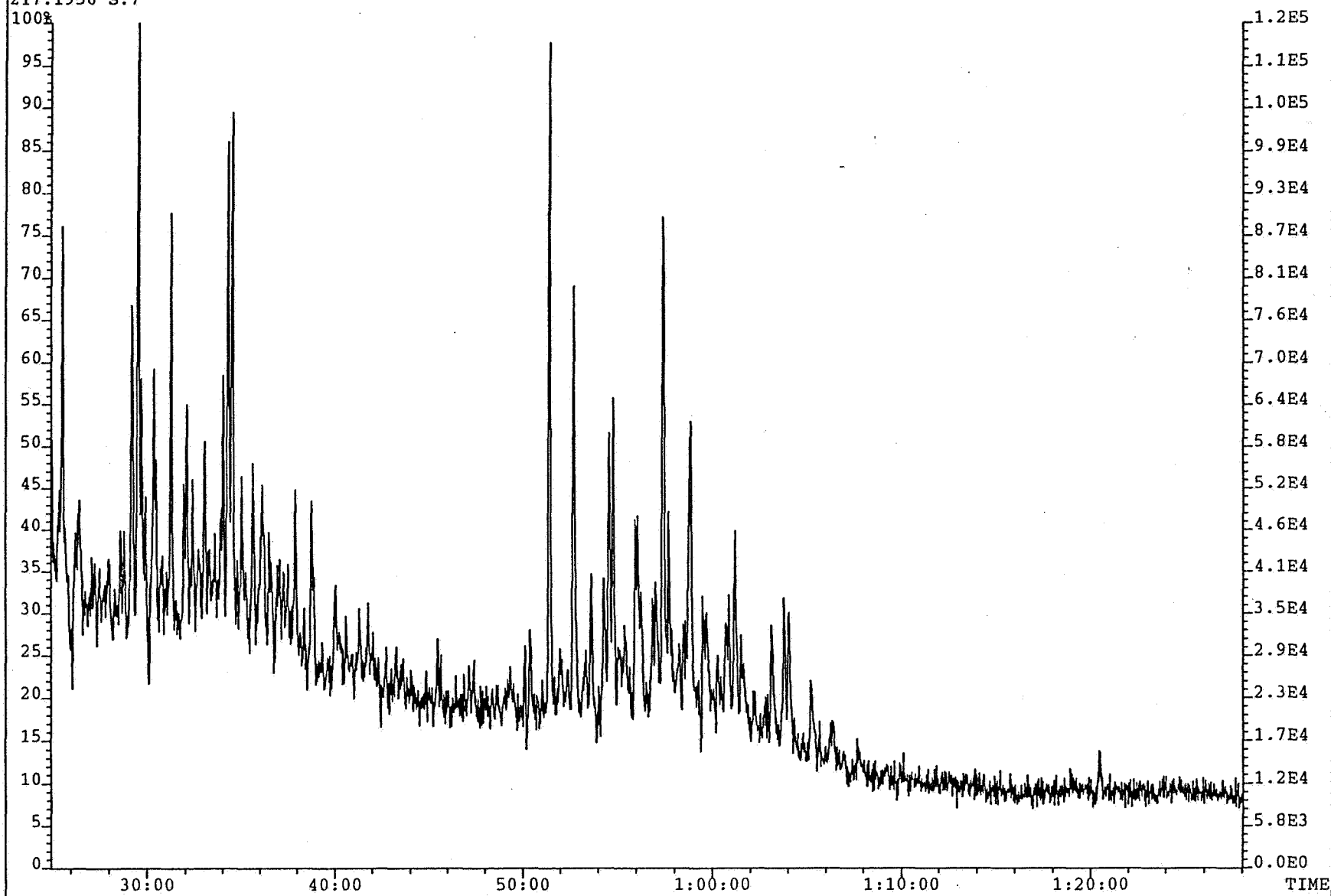
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4339 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#7 Text:WELL 6506/11-3, 4214.4M, EOM
217.1956 S:7

Exp:SAT1



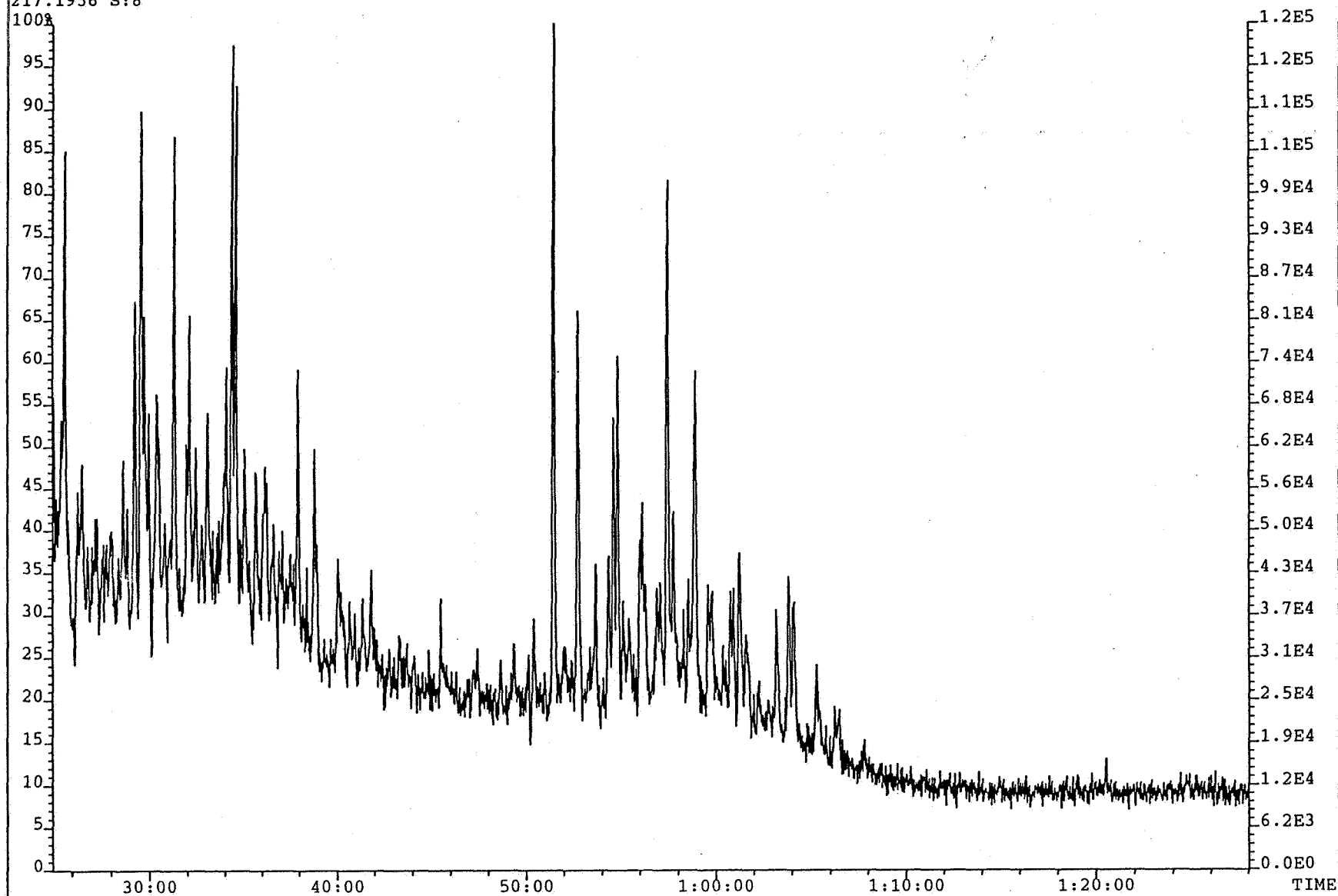
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAB #1-4340 Acq:4-JAN-93 10:19:08 EI+ Magnet SIR
Sample#8 Text:WELL 6506/11-3, 4222.22M, EOM
217.1956 S:8

Exp:SAT1



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GEOLAB NOR