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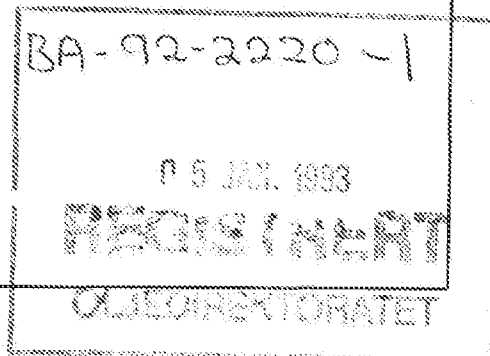
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Abstract

See the Summary on p. 1.

The work described in this report has been carried out in accordance with the Statoil standard for organic geochemical analyses.



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Correlation of Fluids between NOCS 34/10-35 and NOCS 34/10-23

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- III. Saturated Fractions Chromatograms (FID); Oils and Rocks
- IV. Aromatic Fraction Chromatograms (FID and FPD); Oils and Rock

Appendix 3: GAS CHROMATOGRAPHY - MASS SPECTROMETRY, FRAGMENTOGRAMS

SUMMARY

34/10-35

The three DST oils and oil in mud from 34/10-35 are virtually identical and probably from a highly mature (~1 % Ro) marine source rock with an appreciable land plant input. The oil shows in the Ness Fm. of this well are identical to the oils. The analysed oil shows in the Cook Fm. of this well are similar to the oils, but hopane distribution is different and is more like the trace oil shows in the Statfjord Fm. The hopane distribution of these suggests the possibility of a different source (possibly lacustrine? or different microbial input). An oil show in the Shetland Gp. marl from 3530 m is different to the oils and all other oil shows in hopane distribution and is less mature (~ 0.8 % Ro) based on aromatic maturity, but is probably from a marine source.

34/10-23

The oil in 34/10-23 and the oil shows in 34/10-23 are very similar to the oils and Ness Fm. oil shows in 34/10-35 in hopane distribution, isotope values and maturity (~ 1 % Ro).

The following tentative correlations have been made:

The oil in the Shetland Gp. marl from 3530 m in 34/10-35 is from a source similar to the Draupne Fm. in 34/10-35 (mid-mature (~ 0.8 % Ro) marine source).

The oils from 34/10-35 and 34/10-23 and the oil shows in the Ness Fm. of 34/10-35 and Tarbert Fm. of 34/10-23 are from a similar source - probably an anoxic, higher plant-rich, late mature (~ 1 % Ro) marine source (Draupne/Heather Fms., Dunlin Gp.? or mixture?).

The oil shows in the Cook Fm. of 34/10-35 resemble partly the Ness Fm. oil shows

and partly the Statfjord Fm. trace oil shows in the same well. The latter shows are possibly from a different marine or possibly lacustrine source than the other oil shows and is of mid - late maturity (0.9 - 1 % Ro).

Chapter 1

INTRODUCTION

Fluids from two NOCS wells; 34/10-23 and 34/10-35 were analysed on behalf of Statoil. The objectives of the study were as follows:

- Characterisation of hydrocarbons in oils and gases from DSTs, oil in mud and in oil shows in reservoir rocks in the two wells.
- Determine any variations in hydrocarbon composition of gases, oils and oil shows within each well and between the two wells and relating these variations to maturity and source differences.
- Oil to oil and oil show correlation

Both screening and follow-up analyses were performed. Samples for analysis were selected in association with Statoil on a continuous basis. The samples from 34/10-23 were two sandstone core chips and a DST fluid (oil/gas) sample. The samples from 34/10-35 include 23 cuttings samples, 5 side wall cores and 14 core chips (some of which were for source rock evaluation), three DST fluid samples (gas/oil) and one oil in mud sample. Some of rock samples in 34/10-35 were analysed for evaluation of source rock potential and will be the subject of a separate geochemical report.

Samples analysed for evaluation of migrated hydrocarbons were as follows:

34/10-23

- a. Oil Shows in sandstones of the Tarbert Fm. 4084.86 to 4084.91 m and 4097.37 to 4097.42 m

- b. Fluid sample DST # 1 tested in the interval 4085 - 4095 m in the Tarbert Fm.
(i.e. between the two oil shows)

34/10-35

- a. Oil Shows in:
- Shetland Gp. Marl from 3530 m
 - Ness Fm. sandstones x 3 (3931.71 - 3939.36 m)
 - Cook Fm. sandstones x 4 (3993.79 - 4006.17 m)
 - Statfjord Fm. sandstones x 5 (4257.47 - 4283.48 m)
- b. Three Fluid samples DST # 1, 2 and 3 tested in the intervals:
- DST # 3 3920 - 3929 m Ness Fm.
 - DST # 2 3984 - 3995 m Cook Fm.
 - DST # 1 4015 - 4025 m Cook Fm.

and one oil in mud sample from the interval 3496 - 3504 m in the Shetland Gp.

All analyses were conducted by Geolab Nor except for oil specific gravities which were measured at GECO's petroleum laboratory. The report is divided into chapters according to the various analytical methods used.

Chapter 2

SCREENING ANALYSES

Used to evaluate oil shows - Lithology Description Tables 1a and 1b. Rock-Eval Data Tables 2a and b.

2.1 Oil Shows

Based on Rock-Eval data (Tables 2a and b), the sandstones in the Ness and Cook Fms. of 34/10-35 and Tarbert Fm. of 34/10-23 are not very heavily stained, with S_1 values ranging from 0.56 - 1.33 mg HC/g rock in 34/10-35 and ~ 0.35 mg HC/g rock in 34/10-23. S_2 values do not correlate with S_1 values, some samples have low S_1 relative to S_2 , others have high S_1 relative to S_2 (production index values vary from 0.36 to 0.84), possibly indicating different relative amounts of migrated hydrocarbons to NSO compounds. In comparison, the Statfjord Fm. sandstones in 34/10-35 are only very lightly oil-stained, with S_1 values less than 0.1 mg HC/g rock and S_2 from 0.04 to 0.4 mg HC/g rock. The most heavily oil-stained sample is the Shetland Gp. marl from 3530 m with an S_1 of 4.54 mg HC/g rock and an S_2 of 1.46 mg HC/g rock.

2.2 Oil Gravity

Tables 3a and 3b show Oil Gravity Data and quantitative topping data. The results of this show that the oil from 34/10-23 is a slightly heavier than the oils from 34/10-35;

		Sp. Gr at 15°C	API Gravity
34/10-23	DST # 1	0.8274 g/cc	39.5°
34/10-35	DST # 1	0.8082 g/cc	43.6°
	DST # 2	0.8104 g/cc	43.1°
	DST # 3	0.8085 g/cc	43.5°

Chapter 3

DETAILED GEOCHEMICAL ANALYSES

3.1 Gas Composition and Isotope Composition of Gases

This is based on C_1 - C_7 gas composition (Tables 4a-b) and $\delta^{13}C$ composition of C_1 - C_4 hydrocarbons (Tables 5a-b).

There are slight differences in the C_1 - C_7 composition of the gases associated with the oils in 34/10-23 and 34/10-35. The main difference is the amount of methane from 83 % in the 34/10-23 oil to 75 % in DST 3 of 34/10-35.

A crossplot of the $\delta^{13}C$ composition of methane versus ethane (Schoell 1983) shows (Figure 1a) that the different samples plot fairly close together and indicate that they are associated with oils from mature marine source rock. The crossplot (Figure 1b) of $\delta^{13}C$ composition of methane versus % C_2+ gases (Schoell 1983) could indicate that the gases are associated with condensate. Figure 1c (James 1983) suggests the gas is oil-associated. Based on these plots, the most likely interpretation is that the gases are derived from a marine source and are associated with condensates or highly mature oils.

3.2 Solvent Extraction and Chromatography

Eight oil shows in whole rock samples and five shale source rock samples were solvent extracted. The solvent extractable organic material (EOM) of these samples and the five oil samples (four from 34/10-35 and one from 34/10-23) were further fractionated and the hydrocarbons analysed by gas chromatography. The data are

presented in Tables 6a-d and 6f-i. All the chromatograms can be found in Appendix 2. Whole EOM of all oil shows and source rocks were also analysed by gas chromatography.

Four whole oils, three from 34/10-35 and one from 34/10-23 were analysed by gas chromatography. Both FID and FPD (sulphur sensitive detector) chromatograms of the whole oil were produced. In addition, $C_1 - C_7$ as well as $C_1 - C_{30}+$ gas chromatograms were made. All these traces can be found in Appendix 3. Data is presented in Tables 6e and 6j.

Exemplary $C_1 - C_{30}+$ whole oil chromatograms from 34/10-35 and 34/10-23 are shown in Figures 2a-c. Exemplary saturated and aromatic hydrocarbon gas chromatograms are shown in Figures 3a-f and 4a-g respectively.

3.2.1 Solvent Extraction

34/10-35

Sandstones are fairly lightly stained by migrated oil indicated by EOM ppm values ranging from 200 - 2400, with extractable hydrocarbon (EHC) contents from < 100 ppm to 1300 ppm. The oil-stained marl in the Shetland Gp. at 3530 m is an exception in that it has significantly higher EOM and EHC contents of 5155 m and 4212 ppm respectively. TOC-normalised values are generally typical of oil-stained reservoir rocks from 100 to almost 800 mg EOM/g TOC in the marl. EOM content is lowest in the Staffjord Fm. sandstones, indicating only traces of oil are present.

Saturate/aromatic ratio of oils and oil shows in the DST section are high, > 3, suggesting fairly high maturity marine source rocks or a non-marine source. Asphaltene content is low (< 10 % in shows and < 5 % in oils).

34/10-23

EOM content of the two analysed sandstones is low (< 1000 ppm), indicating only light oil-staining (< 1000 ppm). Saturate/aromatic ratio is high (> 2) in both. The oil sample consists predominantly of saturated hydrocarbon content (82 %) and suggests this high API gravity (~ 39) oil is highly mature. The whole oil GC also indicates it is a light oil (Figure 2c).

3.2.2. Whole Oil Gas Chromatography

34/10-35, 34/10-23

There appear to be only very slight differences in the $C_4 - C_7$ composition of the DST oils from the two wells. The $C_1 - C_{35}$ whole oil GCs do, however, show that there is a difference between DST 3 (Figure 2a) and DSTs 1 and 2 (Figure 2b) from 34/10-35. DST 3 has slightly more C_{20+} n-alkanes and slightly more isoprenoids relative to n-alkanes (possibly signifying lower maturity). DST 3 also has less methane than the other two DST oils from this well. The 34/10-23 oil appears to have significantly less C_{20+} (Figure 2c) than the 34/10-35 oils. Sulphur aromatics are not abundant in any of the oils based on the FPD chromatograms of the oils.

3.2.3 Saturated Hydrocarbon Gas Chromatography

34/10-35

The four oil samples (3 DSTs and one oil in mud) have very similar hydrocarbon gas chromatograms with a smooth n-alkane envelope from $nC_{10} - nC_{35}$ with a maximum at $\sim nC_{10}$ (Figure 3a). There is no obvious odd or even n-alkane preference. Isoprenoid/n-alkane ratios (e.g. pristane/ $nC_{17} \sim 0.5$) suggest a mature source for the

oils. Pristane/phytane ratio of about 2 suggests a source rock with a significant land plant input.

The oil shows in the Ness and Cook Fm. sandstones have similar n-alkane envelopes from nC_{20} to nC_{35} as the oils. The low nC_{10} - nC_{20} alkane content is due to losses incurred during sampling and work-up procedures. The more pronounced unresolved envelope (or "hump") is also due to sampling/work-up. A very slight odd n-alkane preference can be seen in some of the oil shows (Figure 3b), suggesting a significant land plant input.

Other oil shows in the Shetland Gp. marl at 3530 m and in the analysed Statfjord sandstone section (4250 - 4300 m) have slightly different saturated hydrocarbon distributions to the Ness/Cook Fm. oil shows. The marl has an n-alkane envelope from nC_{12} to $nC_{39}(+)$ with a maximum at about nC_{23} (Figure 3c). The low nC_{10} - nC_{20} content is partly due to sampling/work-up, but is also probably due to migration processes (residual oil show in migration pathway?). There are slight differences in detail between the marl and Ness/Cook Fm. oil shows, particularly the lower pristane/phytane ratio of the marl (possibly partly due to migration processes rather than just environment/source) and slight even n-alkane preference (nC_{22} - nC_{26}), suggesting a more anoxic source than the Ness/Cook Fm. oil shows (or less mature?). The Statfjord Fm. sandstones have similar saturate fractions to the Ness/Cook Fm. sandstones except for the more prominent unresolved envelope between nC_{20} and nC_{30} in the Statfjord samples (Figure 3d). This could be due to the presence of an earlier charge which has been biodegraded.

34/10-23

The n-alkane range and distribution of the oil and two oil shows are fairly similar, i.e. smooth n-alkane envelope from nC_{13} - nC_{38} (nC_{10} - nC_{38} in oil) with a maximum at nC_{18} in the shows and nC_{17} in the oil. The hydrocarbons in the shows and oil have a pristane/phytane ratio of about 2 and slight odd n-alkane preference at nC_{21} and nC_{23} of (Figures 3e and 3f). The source of the oil and oil shows probably had a large land

input and/or mildly anoxic depositional environment. Low isoprenoid/n-alkane ratios of both oil and oil shows indicate they probably come from mature source rocks.

3.2.4 Aromatic Hydrocarbon Gas Chromatography

34/10-35

The oils have very similar aromatic hydrocarbon distributions (Figure 4a). The high values for aromatic maturity parameters such as MNR, DMNR and MPI 1 and 2 are typical of highly mature source rocks. The calculated vitrinite reflectance based on the MPI 1 is 1.1 % Ro. This may be slightly too high (based on general in-house observations), but certainly suggests a source maturity near the base of the oil window (~ 0.9 - 1 % Ro). The high biphenyl (biphenyl and methylbiphenyls) content is also indicative of a highly mature source, but one with an appreciable land plant input (biphenyls are generally most abundant in coals). Sulphur aromatics seen in the FPD chromatograms of the aromatic fraction of these oils also indicate a highly mature source rock. This is based on the virtual absence of 1-methyl dibenzothiophenes and dominance of early eluting C₂-dibenzothiophenes (Figure 4b).

The Ness/Cook Fm. oil shows are very similar to the oils, except for a reduced amount of alkyl naphthalenes, due to sampling and work-up (Figure 4c), and have similar calculated vitrinite reflectances of ~ 1.1 % Ro based on the MPI 1.

Oil shows in the Statfjord Fm. and in the Shetland Gp. marl are slightly different to the Ness/Cook Fm. shows, having even less alkyl naphthalenes (because they are only residual oil shows (migration pathway?). The aromatics of the marl consist predominantly of a high molecular weight unresolved envelope. Maturity of the marl and Statfjord Fm. oil shows is slightly less than the Ness/Cook Fm. shows and oils, being about 0.8 % for the marl and 1 % Ro for the Statfjord Fm. (from MPI 1). Sulphur aromatics are apparently absent from the marl and Statfjord Fm. shows.

34/10-23

Very similar aromatic hydrocarbon distribution in oil and oil shows (Figures 4f and g). Calculated vitrinite reflectance based on MPI 1 is ~ 1.1 % Ro for the two oil shows (similar to Ness Fm. shows in 34/10-35) and for the oil. Sulphur aromatics are virtually absent from the oil shows and oil, the distribution seen in oil is very similar to that of the 35/10-23 oils and indicates a highly mature source (virtually no 1-methyl-dibenzothiophene relative to 4- and 3+2-isomers).

3.3 Isotope Analysis of C₁₅+ Fractions

EOM and EOM fractions (EOM, saturated hydrocarbons, aromatic hydrocarbons, NSO compound fraction and the asphaltene fraction) from four oils from 34/10-35 and one oil and two oil shows from 34/10-23 were analysed for stable carbon isotope composition. The data is listed in Tables 9a-b and 9c-d and plotted in Figures 5a and 5b. Figure 5a shows a crossplot of the $\delta^{13}\text{C}$ isotope values of saturated versus aromatic hydrocarbons, and Figure 5b shows the Galimov plots of the $\delta^{13}\text{C}$ isotope values of the various fractions from the extracted material of the samples.

34/10-35 and 34/10-23

Isotopic composition of the oils from 34/10-35 and oil 34/10-23 cluster in a tight group as can be seen from Figure 5a. The oil shows from 34/10-23 also cluster close to these oils. The 34/10-35 oils and the 34/10-23 oil shows plot well within the terrestrial field of the Sofer (1984)-derived crossplot (Figure 5a) and suggest a significant land plant input to the source of these samples. The 34/10-23 oil plots closest to the 34/10-35 oil in mud sample taken during drilling of the Shelland Gp. section.

3.4 Gas Chromatography - Mass Spectrometry

In 34/10-35, three DST oils from the Ness and Cook Fms., one oil from the mud from the Shetland Gp. and oil shows from the Shetland Gp. (1), Ness Fm. (2), Cook Fm. (2) and Statfjord Fm. (3) were analysed. In 34/10-23, one DST oil and two oil shows from the Tarbert Fm. were analysed. The data are presented in Tables 10a-d and 10e-h and the fragmentograms in Appendix 3. Exemplary fragmentograms mentioned in the text are shown in Figures 6a-s.

34/10-35

The oils have very similar M/Z 177 fragmentograms in which C_{27+} steranes and triterpanes are very minor components and lower molecular weight compounds predominate (Figure 6a). $C_{27} - C_{29}$ diasteranes and C_{29} $\alpha\beta$ hopanes and C_{29} neohopane are the dominant C_{27+} compounds.

The Ness and Cook Fm. oil shows have similar M/Z 177 fragmentograms to the oils (Figure 6b). The Shetland Gp. marl from 3530 m and two of the Statfjord Fm. oil shows have more C_{27+} compounds than the oils, particularly the C_{27} diasteranes and C_{29} hopanes (e.g. Figures 6c and d). The distribution of compounds seen in the M/Z 177 fragmentograms of all the oils and oil shows is typical of mature marine (and some lacustrine) source rocks (with $C_{27} > C_{29}$ diasteranes and diasterane: hopane of a 1:1). The higher content of C_{27+} steranes and hopanes in the Shetland Gp. marl and Statfjord Fm. sandstones could be due to lower maturity source for the oil shows in these rocks than the oils and oil shows in the Ness and Cook Fms.

The M/Z 191 fragmentograms show there are clear differences between the oils and associated Ness Fm. oil shows, the Cook Fm. shows, the Statfjord Fm. shows and the Shetland Gp. Marl oil show. The oils and Ness Fm. oil shows (Figures 6e and 6f) are characterised by a low content of C_{27+} hopanes in which the $\alpha\beta$ hopanes are relatively

minor components. The dominant hopanes are the C_{27} neohopane (peak A), the C_{30} $\alpha\beta$ hopane (peak E) and the C_{30} diahopane (peak X). Tricyclic terpanes from C_{21} to C_{26} are also prominent. In contrast, the Cook Fm. shows (Figures 6g) have more of the $\alpha\beta$ hopane series, although the C_{27} neohopane (peak A) is still prominent. The C_{21} - C_{26} tricyclic terpanes, and C_{26} - C_{30} tricyclic terpanes are also more abundant and the ratio of C_{29} to C_{30} $\alpha\beta$ hopane (peaks C/E) is much higher than in the oils. This is also the case for the Statfjord Fm. oil shows (Figure 6h), where, in addition, T_m/T_s is much higher and the C_{30} diahopane to C_{30} $\alpha\beta$ hopane ratio (peaks X/E) is lower. This is taken to indicate that the Statfjord Fm. oil shows are less mature than the Cook and Ness Fm. oil shows and oils. There is also the possibility of a different source for the Statfjord and Cook Fm. shows compared to the Ness Fm. shows. This is in contrast to the Cook Fm. DST oils which are virtually identical to the Ness Fm. oils and oil in mud sample from the Shetland Gp. The reason for the differences between the Cook Fm. oils and Cook Fm. oil shows indicates that there are vertical heterogeneities in the reservoired hydrocarbons in the Cook Fm.

The oil show in the marl from the Shetland Gp. is different to the oils and other oil shows in that, while $\alpha\beta$ hopanes are as abundant as in the Statfjord Fm. oil shows, (Figure 6i), the T_m/T_s is lower and C_{30} diahopane/ C_{30} $\alpha\beta$ hopane (X/E) ratio is higher, which is more like the oils. It is possible that the marl oil show is sourced by a less mature equivalent of the source of the oils and Ness Fm. oil shows.

(Note the marl oil show has a very similar M/Z 191 fragmentogram to the Upper Jurassic shales (Figure 6j), while the oils and other oil shows are similar to the Cook Fm. shale (Figure 6k) - detailed source rock/oil correlation in 34/10-35 will be the subject of a separate report.)

Oils and oil shows are probably all derived from marine anoxic source rocks based on the distribution of C_{31} - C_{35} $\alpha\beta$ hopanes (e.g. $C_{35} \geq C_{34}$ where visible!). The high C_{29}/C_{30} $\alpha\beta$ hopane ratio (peaks C/E) and very abundant tricyclic terpanes in the Cook Fm. and particularly in the Statfjord Fm. shows suggests a different source (marine also - or possibly lacustrine? Note low C_{30} sterane contents - see below).

The sterane composition (M/Z 217 fragmentograms) of the oils and Ness/Cook Fm. oil shows is typical of highly mature clastic marine source rocks - i.e. dominated by C_{20} - C_{22} short side-chain steranes and C_{27} - C_{29} diasteranes (Figures 6 l). In contrast, the Statfjord Fm. and Shetland Gp. marl oil shows have less C_{20} - C_{22} compounds and more of the regular steranes (i.e. $\alpha\beta\beta$ and $\alpha\alpha\alpha$ steranes - Figure 6m). However, like the oils and Ness/Cook Fm. oil shows, they have similar relative amounts of C_{27} : C_{28} : C_{29} compounds (typical of marine, and some lacustrine source rocks). The observed differences in sterane distribution of the oils and Ness/Cook Fm. oil shows on the one hand and the Statfjord Fm./Shetland Gp. marl shows on the other are probably partly due to the lower maturity of the latter. Note that, although probably from the least mature source, the Statfjord Fm. shales appear to have less or very low contents of C_{30} steranes compared to the oils (possibly indicating a non-marine influence source for the Statfjord Fm. oil shows).

34/10-23

The oil sample and the two oil shows have similar M/Z 177 fragmentograms (Figures 6n and 6o). C_{27} - C_{29} diasteranes are the dominant components, but much less abundant compared to the $< C_{27}$ hydrocarbons.

The M/Z 191 fragmentograms also show great similarity between the oil and the oil shows. The oil and oil shows have a lower content of the C_{31} - C_{35} $\alpha\beta$ hopanes than tricyclic terpanes (Figures 6p and 6q). The low T_m/T_s and high C_{30} diahopane/ $\alpha\beta$ hopane ratio suggest the oil is from a highly mature source.

The C_{27} - C_{29} sterane distribution of the oils and oil shows seen in the M/Z 217 fragmentograms is fairly similar (one oil show has slightly more of the C_{27} diasteranes). The main differences between oil and oil shows is the lower amount of C_{21} - C_{22} short-side chain steranes in the oil (Figure 6r) compared to the oil shows (Figure 6s).

Chapter 4

CONCLUSIONS

The four oils (3 DSTs and oil in mud) of the 34/10-35 well are very similar in composition. The three DST oils are very light (API gravity ~ 43°) and the data on the associate gases suggest they are mature. The GC and GC-MS data suggest the oils are from a highly mature marine source rock with a significant land plant input. Estimated source maturity is about 1 % Ro (1.1 % Ro based on MPI 1 index). The high land plant input is based on the slight odd n-alkane preference (in some oil shows only), abundant biphenyls and pristane/phytane ratio of ~ 2. A marine source is indicated by the relative sterane to hopane abundance in the M/Z 177 fragmentogram and from the sterane distribution in the M/Z 217 fragmentogram. The Upper Jurassic in this well has a quite different biomarker composition and is unlikely to be the source of the oils. In fact, the biomarker distribution of the Cook Fm. shales is more like the oils.

The Ness Fm. oil shows in 34/10-35 and to a lesser extent the Cook Fm. shows, are similar in composition to the oils. The shows in Statfjord Fm. and to some extent the Cook Fm. have slightly different biomarker compositions, but the GC data is similar to the other oil shows. The hopane distribution in the Statfjord Fm. (and to a lesser extent in the Cook Fm.) is noticeably different to the oils and Ness Fm. shows in that the $\alpha\beta$ hopane distribution is slightly different, e.g. higher C_{29}/C_{30} $\alpha\beta$ hopane ratio, (peaks C/E) and there is noticeably more C_{20} - C_{30} tricyclic terpanes than in the oils. This could be due to a different source for the trace oil shows in the Statfjord Fm. (similarly for the Cook Fm. shows). The maturity of these appears to be less than the oils - probably in range 0.8 % Ro - 1 % Ro (1 % Ro according to MPI 1 index). In contrast to these, the oil show in the Shetland Gp. Marl at 3530 m is probably from a marine source with a lower land plant input and more anoxic source, but less mature (MPI 1 suggests ~ 0.8 % Ro) than the oils.

The 34/10-23 Tarbert Fm. oil and the two Tarbert Fm. oil shows are very similar to the

oils in 34/10-35, i.e. from a highly mature source with a large land plant input. They are isotopically also very similar to the 34/10-35 oils. A preliminary grouping of the oils and oil shows is as follows:

A	34/10-35	Oils and oil in mud
	34/10-35	Ness Fm. Oil Shows (part of Cook Fm. shows)
	34/10-23	Tarbert Fm. Oil Shows
	34/10-23	Tarbert Fm. Oil
B	34/10-35	Shetland Gp. Oil Show
C	34/10-35	Trace Oil Shows in Staffjord Fm.
		(plus part Oil Shows in the Cook Fm.)

Summary of some of the main differentiating parameters for these three groups as follows:

	BphR ^a	DMNR ^a	MPI1 ^a =	% Rc ^a	Q/E ^b	C/E ^b	B/A ^b	Satδ ¹³ C
A	0.4-0.7	>3	1.1-1.2	~1.1%	~0.8*	~0.4*	0.2-0.4	~-29
B	<0.2	~1.3	~0.7	~0.8%	~0.15*	~0.3	~0.2	~-31
C	<0.1	?	0.8-1	~1%	>0.6	~0.9	>0.6	?

^a from aromatics table

^b from hopane - GC-MS table

* excludes oils

* excludes oil in mud sample

Q/E = C₂₃ tricyclic/C₃₀ hopane ratio

C/E = C₂₉/C₃₀ αβ hopane ratio

B/A = T_m/T_s or C₂₇ trisnorhopane/C₂₇ trisnorneohopane ratio

References

JAMES, A. T. (1983)

Correlation of natural gases by use of carbon isotopic distribution between hydrocarbon components. AAPG Bull. Vol. 67, No. 7, pp 1176 - 1168.

SCHOELL, M. (1983)

Genetic characterization of natural gases. AAPG Bull. Vol. 67, No. 12, pp 2225 - 2238.

SOFER, Z. (1984)

Stable carbon isotope composition of crude oils: Application to source depositional environments and petroleum alteration. AAPG Bull. Vol. 68, No. 1, pp 31 - 49.

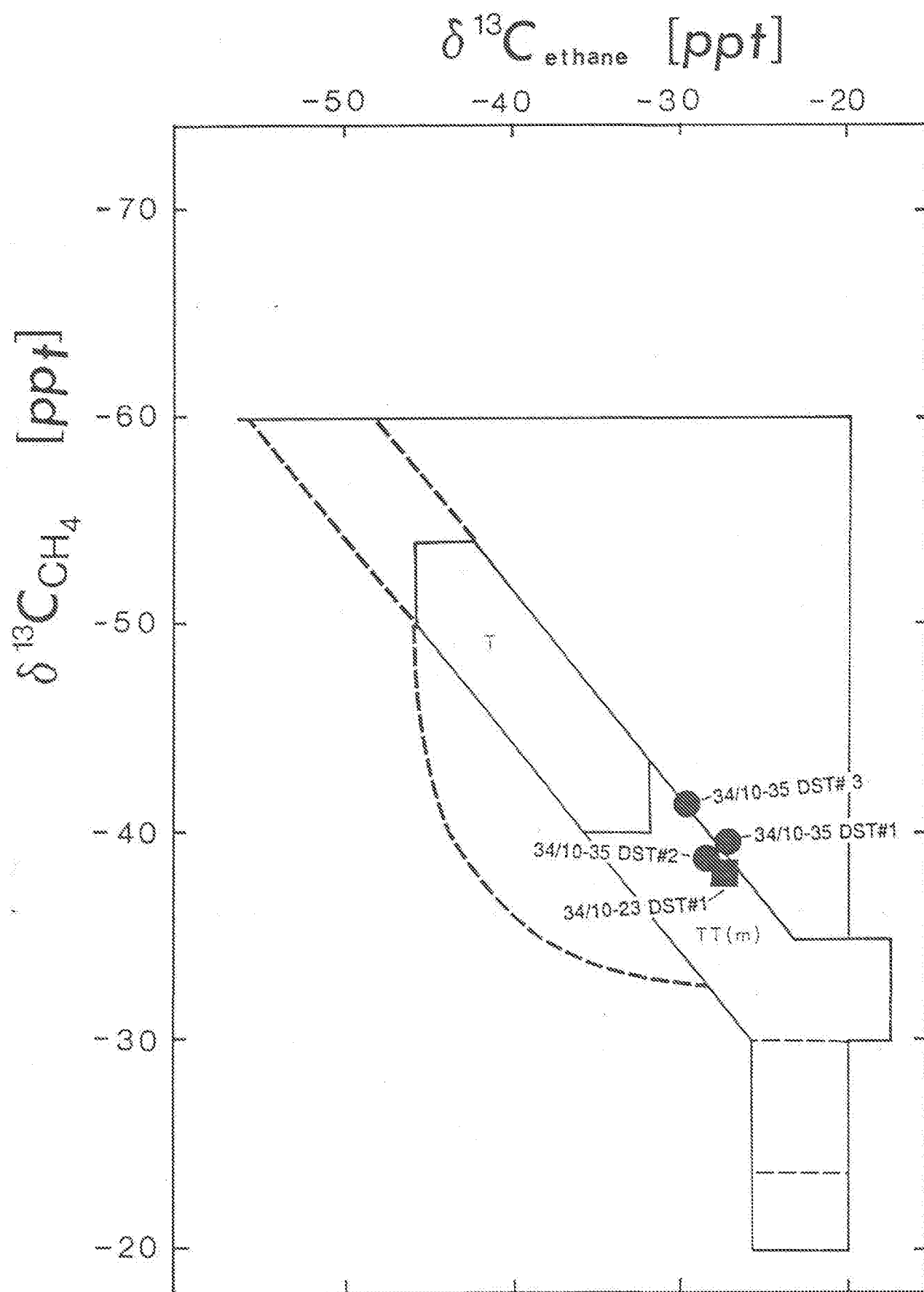


Figure 1a.

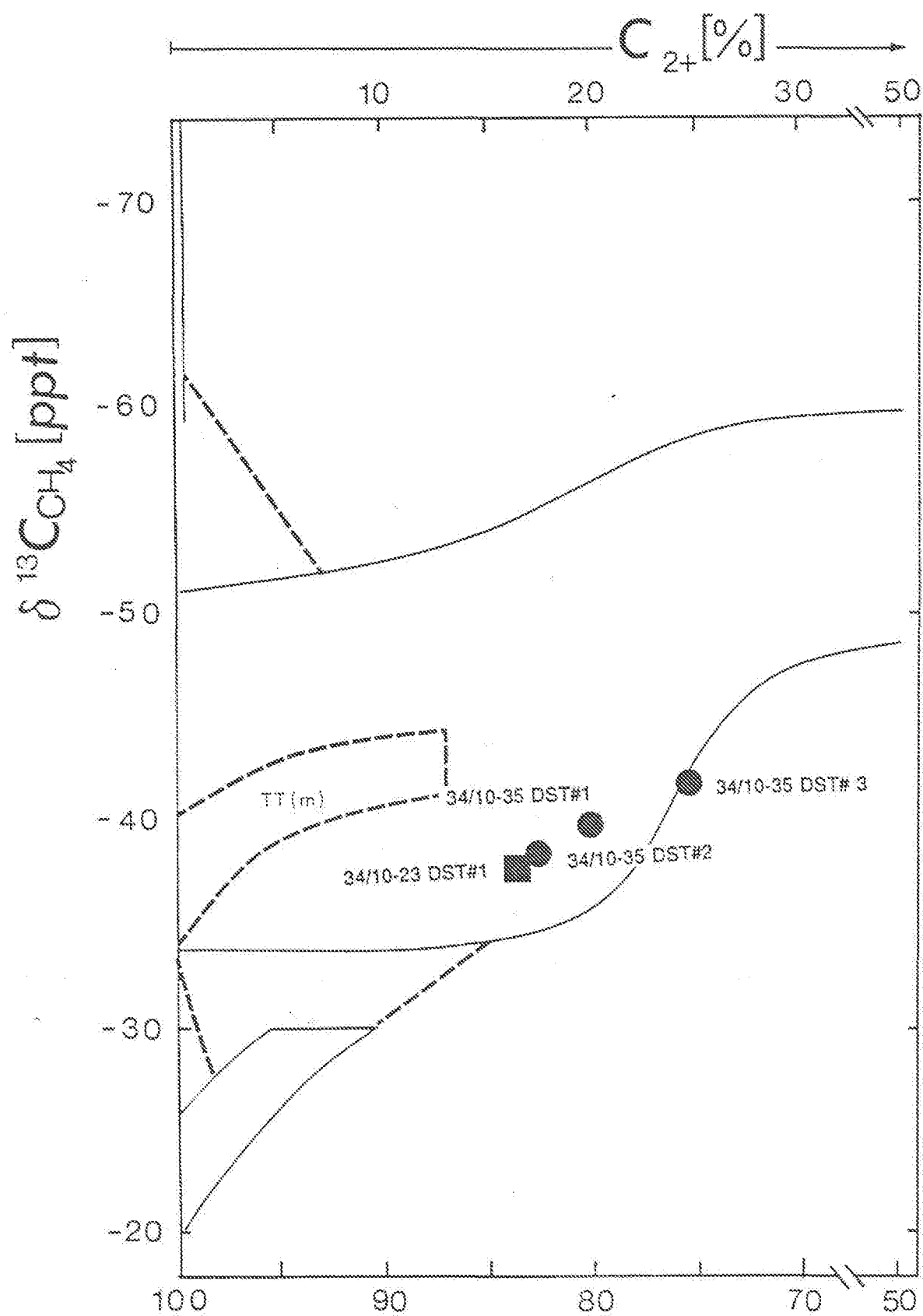


Figure 1b.

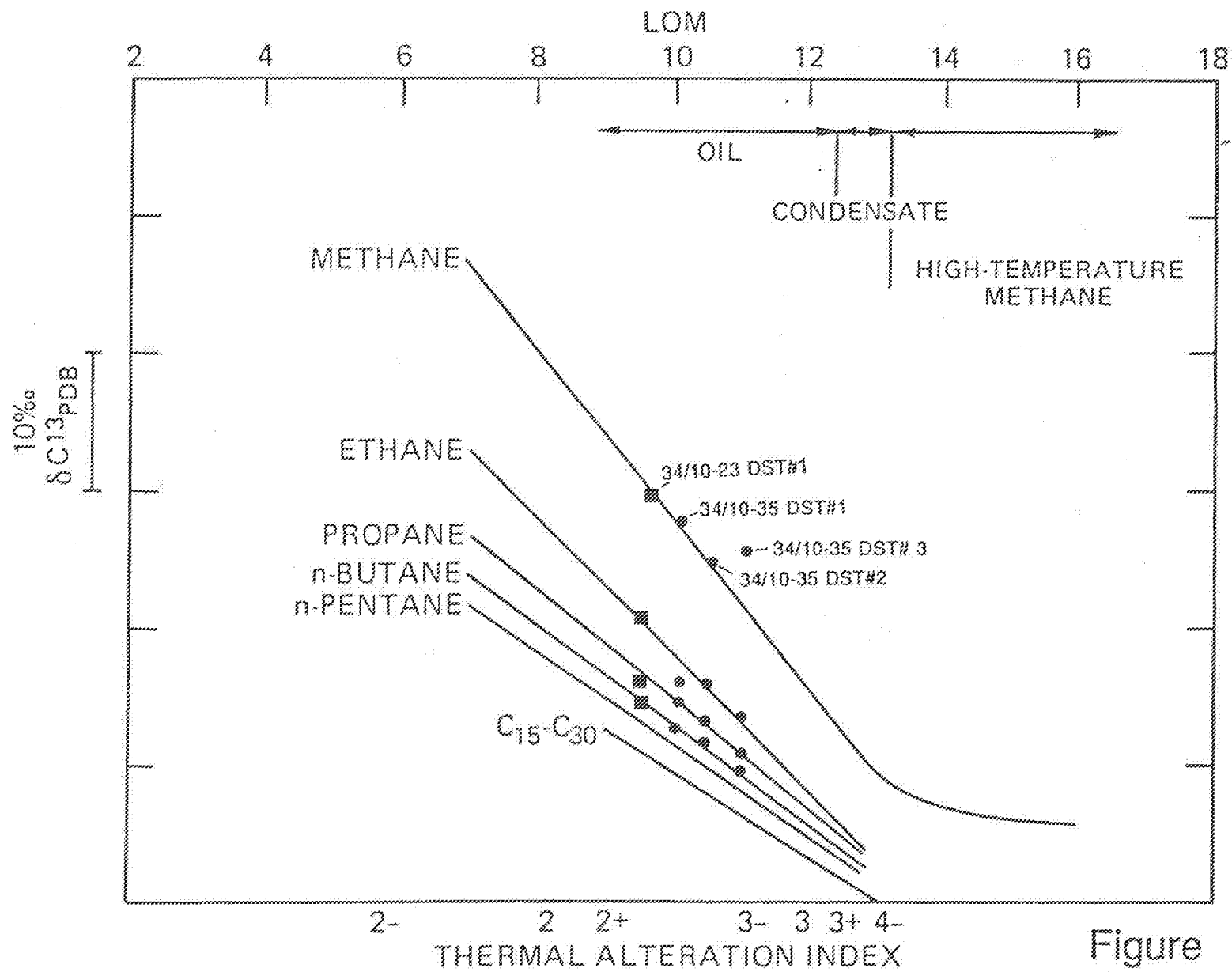
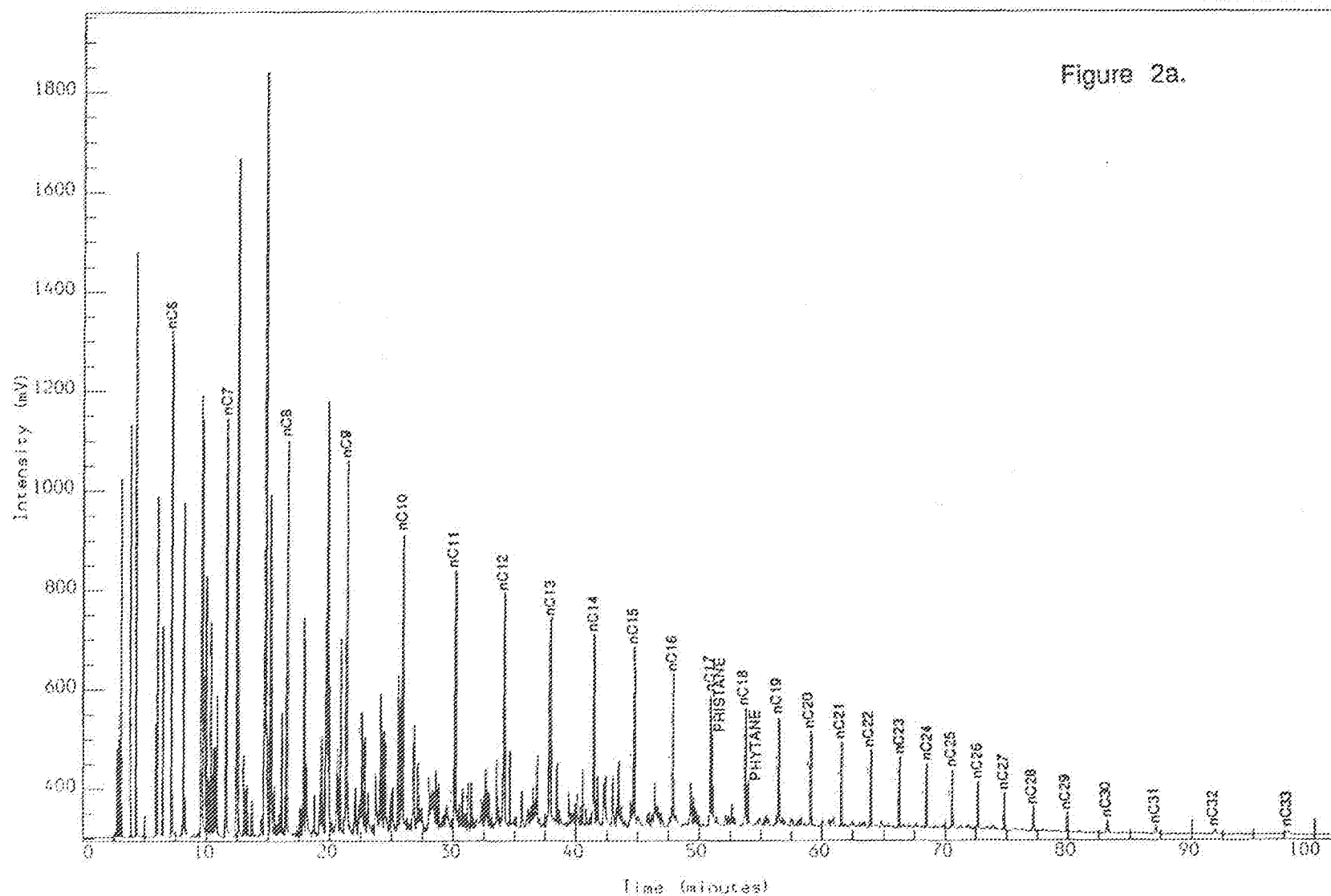


Figure 1c.

Analysis Name : [526265] 31 W03410353.1.1.

Multichrom



WELL NOCS 34/10-35 DST.3
WHOLE OIL GC (FID)

Reported on 25-SEP-1992 at 13:17

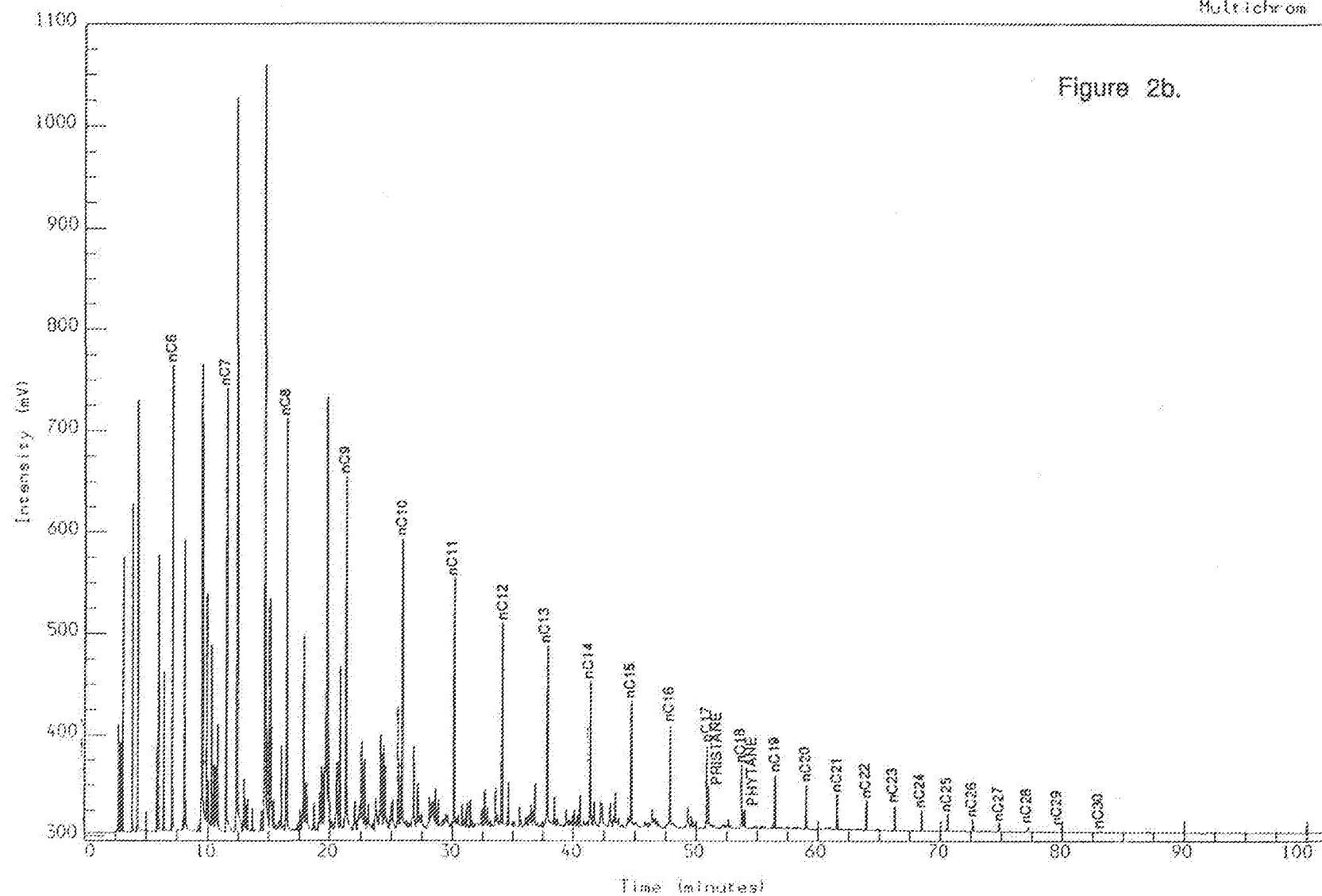
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410352.1.1.

Multichrom



WELL NUCS 34/10-35 DST.2
WHOLE OIL GC (FID)

Reported on 25-SEP-1992 at 11:17

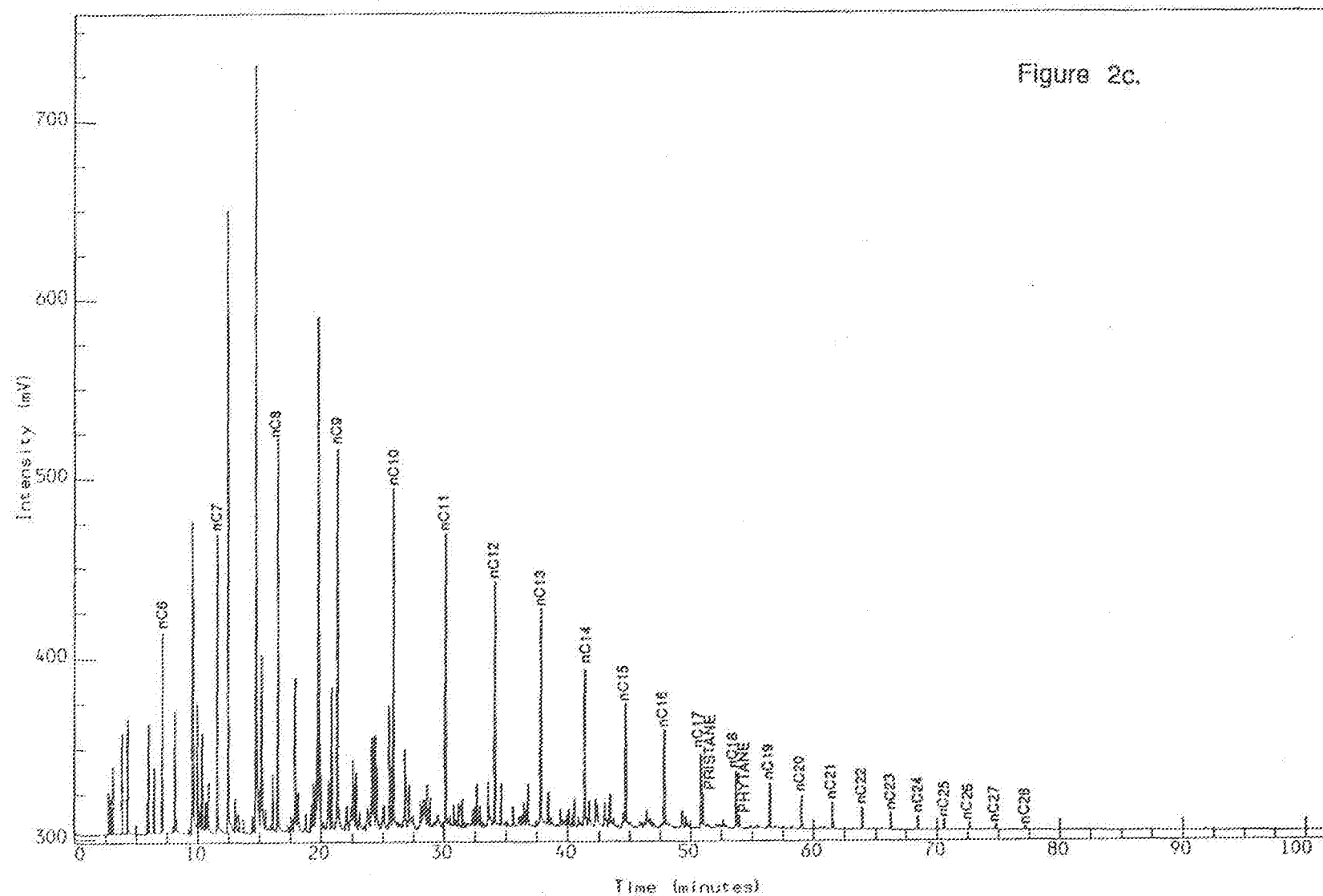
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W034140231.1.1.

Multichrom



WELL NOCS 34/10-23 DSI.1
WHOLE OIL GC (FID)

Reported on 31-AUG-1992 at 11:31

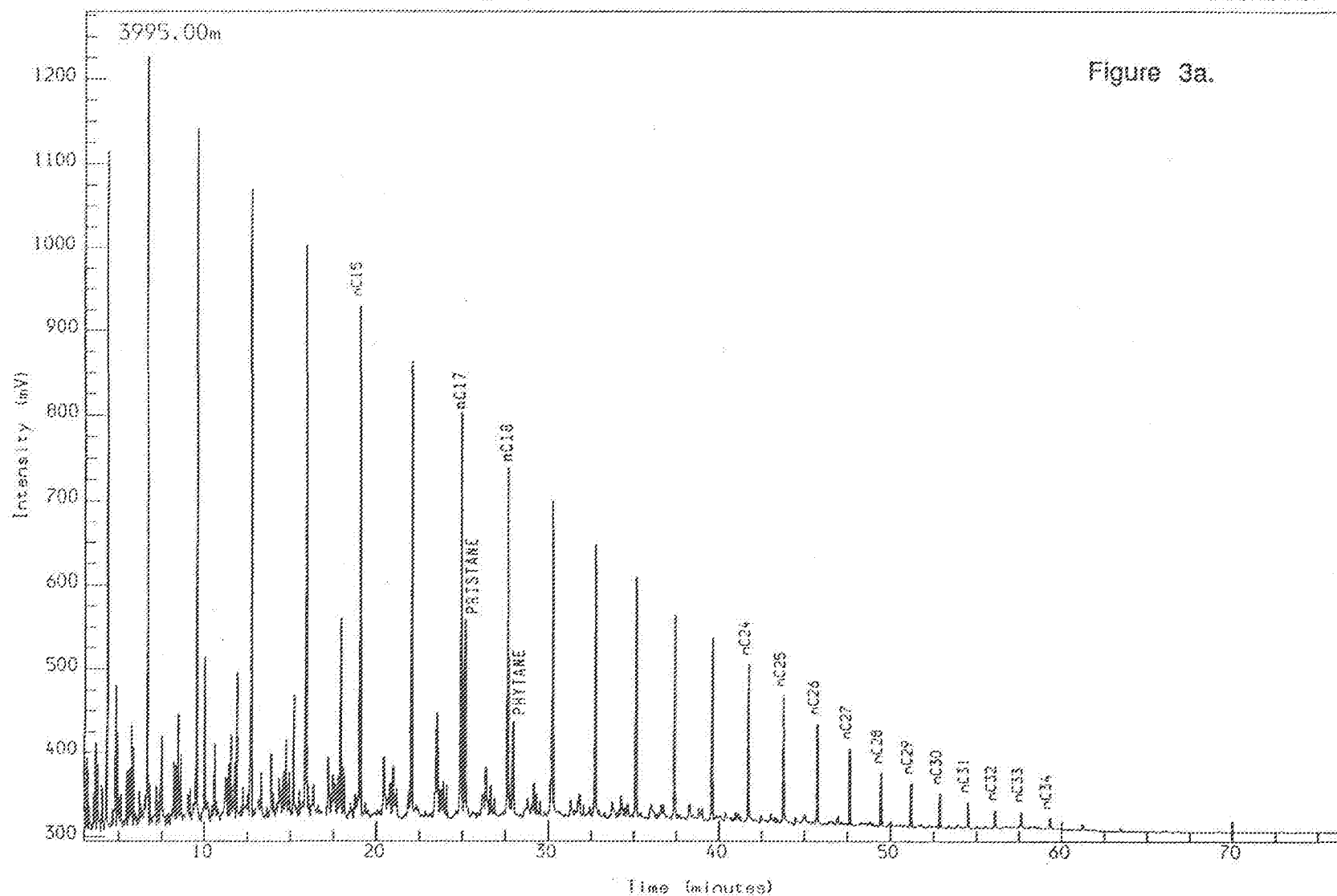
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SH4700610B.4.1.

Multichrom



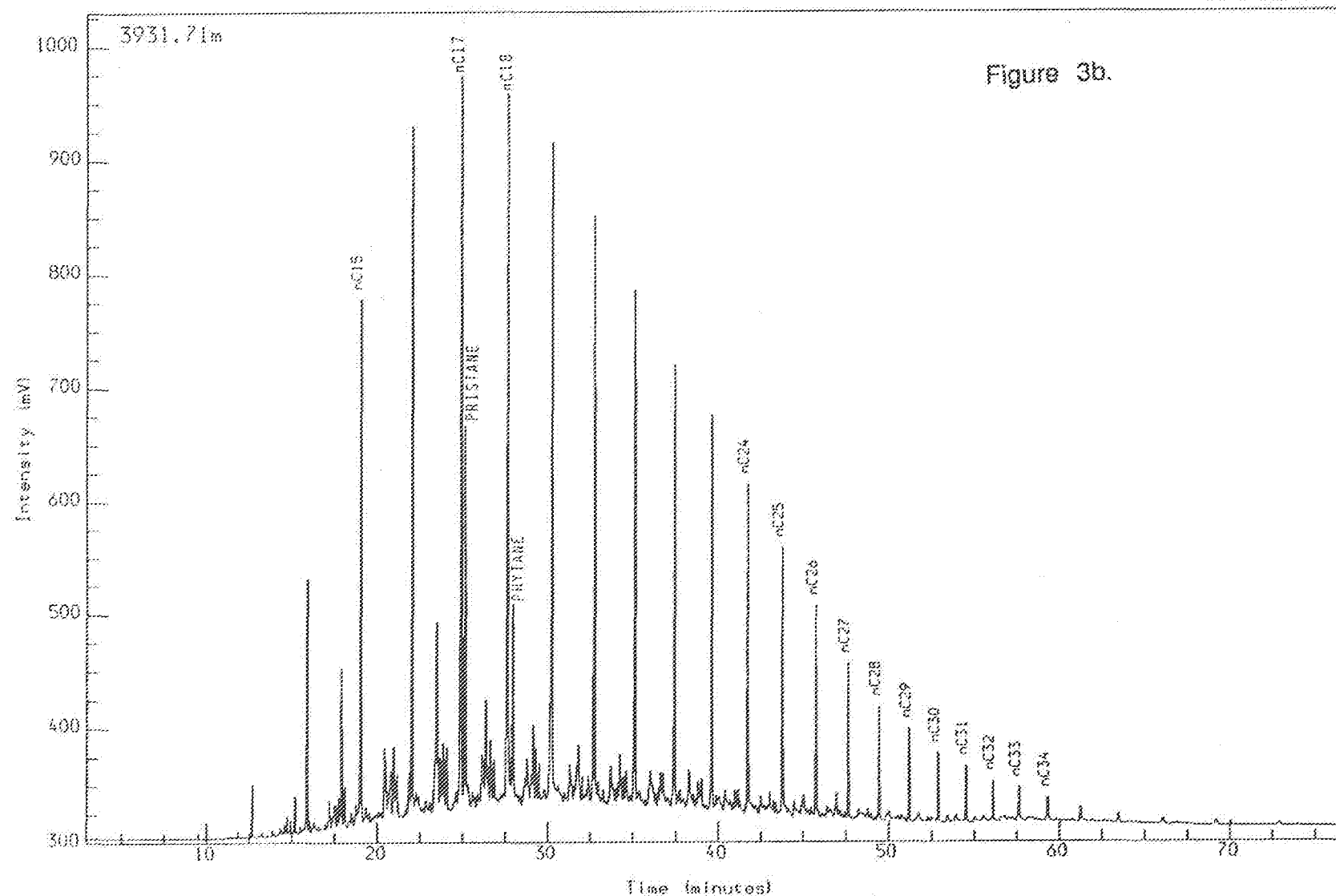
WELL NOCS 34/10-35 3984-3995m
SATURATED GC

Reported on 31-AUG-1992 at 10:04

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 34/10-35
SATURATED GC
S/Sst: pl y brn

3931.71m ccp

Reported on 31-AUG-1992 at 00.36

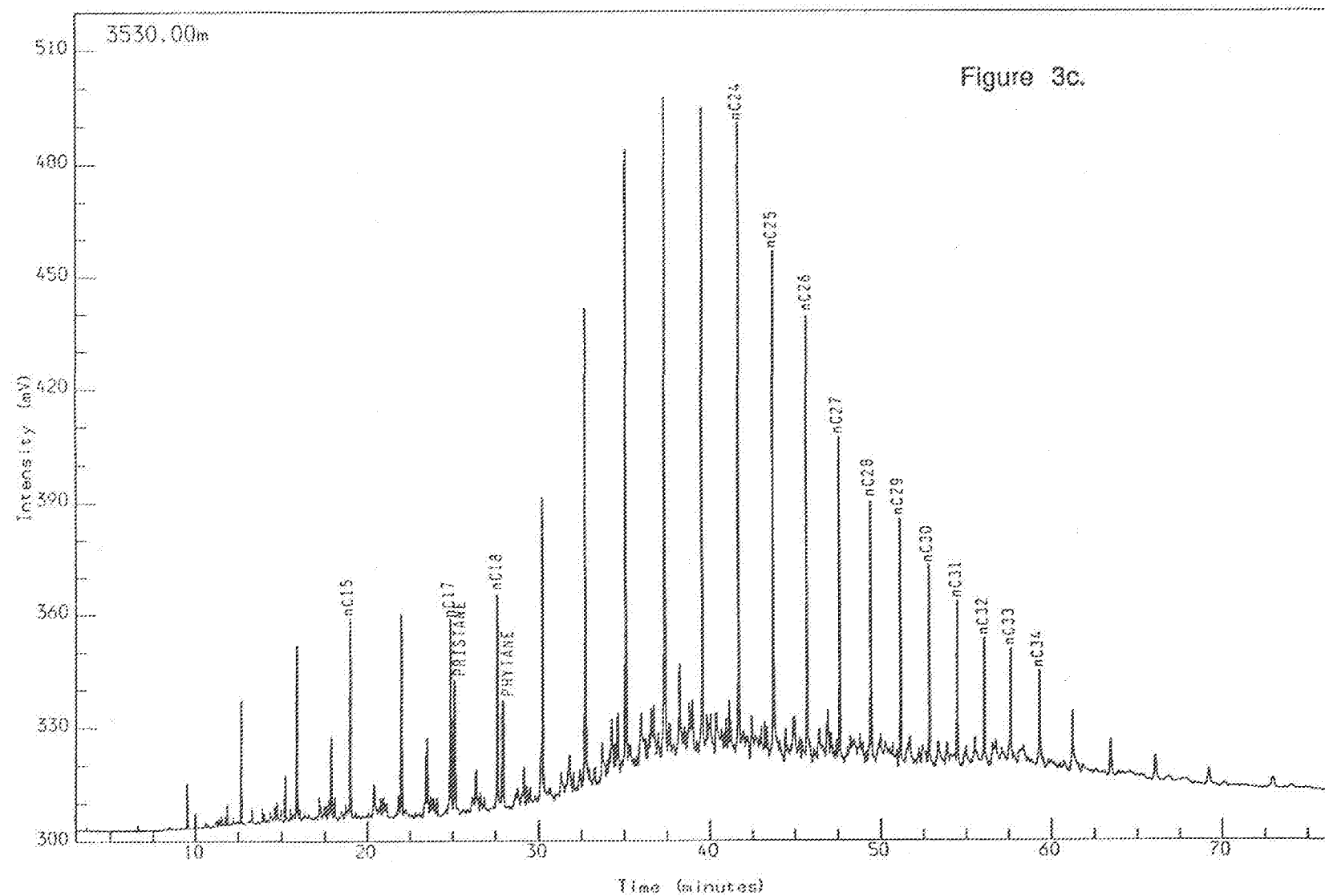
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.3.1.

Multichrom



WELL NOCS 34/10-35
SATURATED GC
Marl: y gy to lt gy

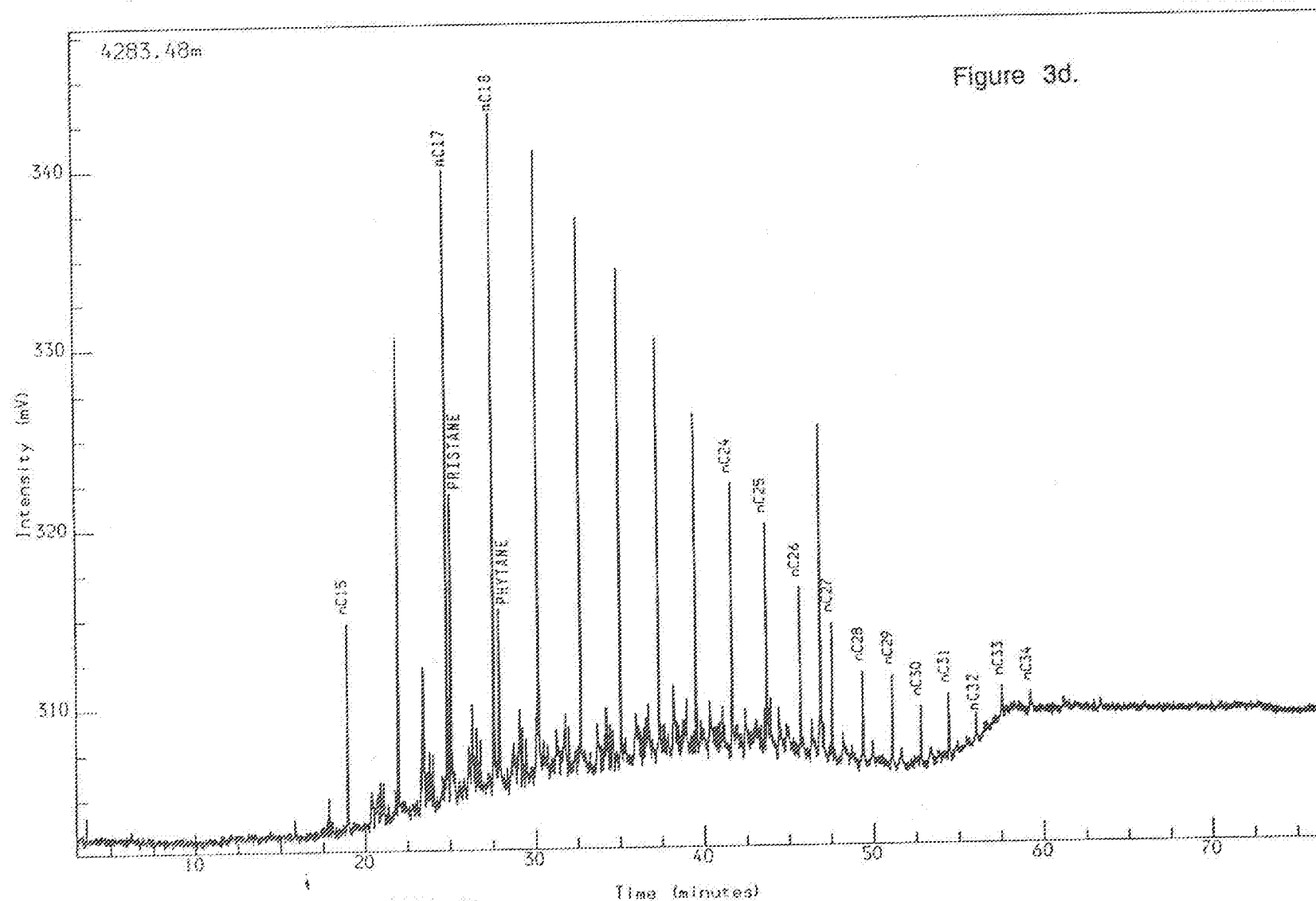
3530.00m cut

Reported on 31-AUG-1992 at 00:01

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 34/10-35 4283.48m ccp
 SATURATED GC
 S/Sst: 1t gy w to 1t gy

Reported on 23-SEP-1992 at 12:14

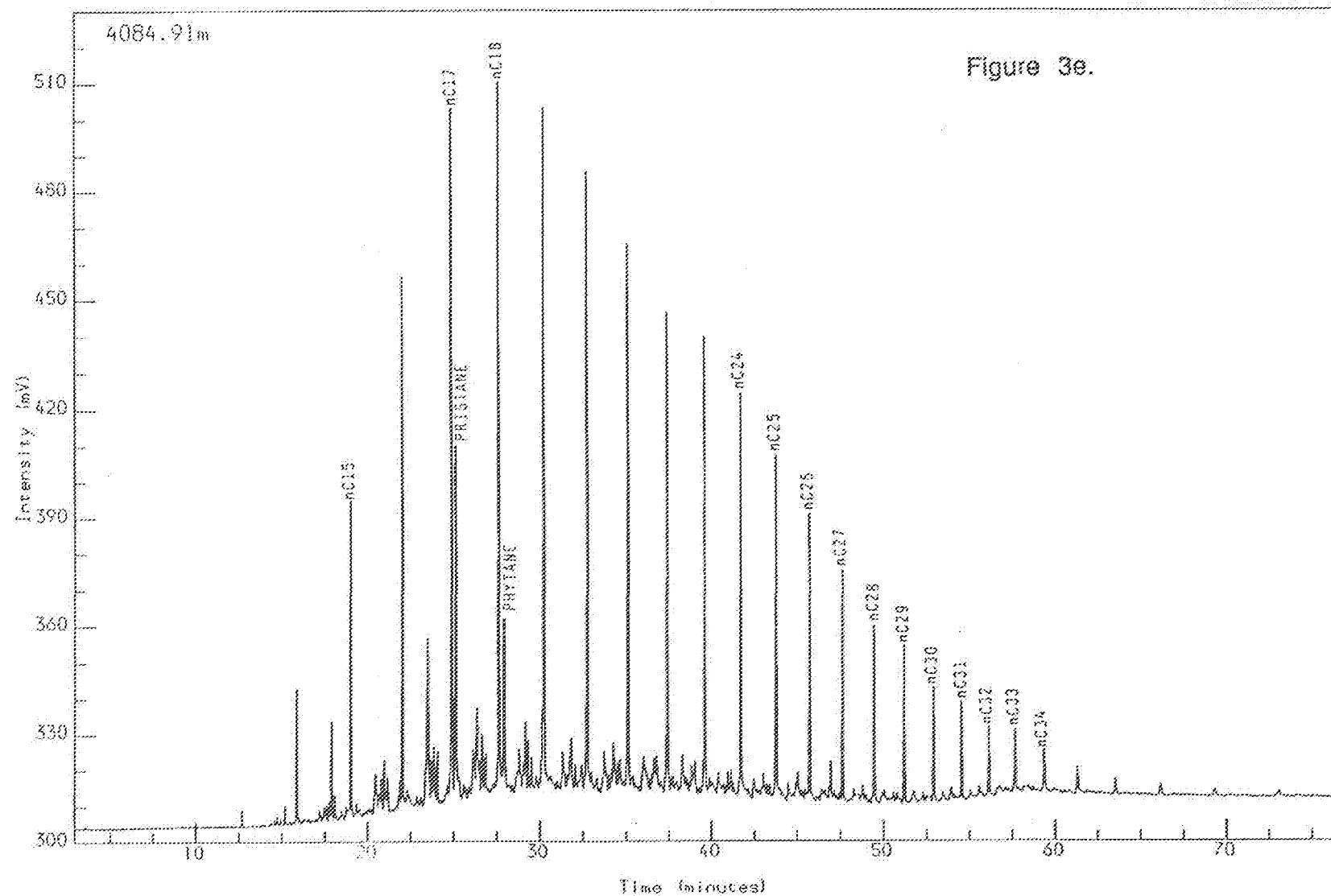
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.2.1.

Multichrom



WELL NOCS 34/10-23 4084.91m ccp

SATURATED GC

5/Sst: lt gy to lt brn gy

Reported on 21-SEP-1992 at 14:56

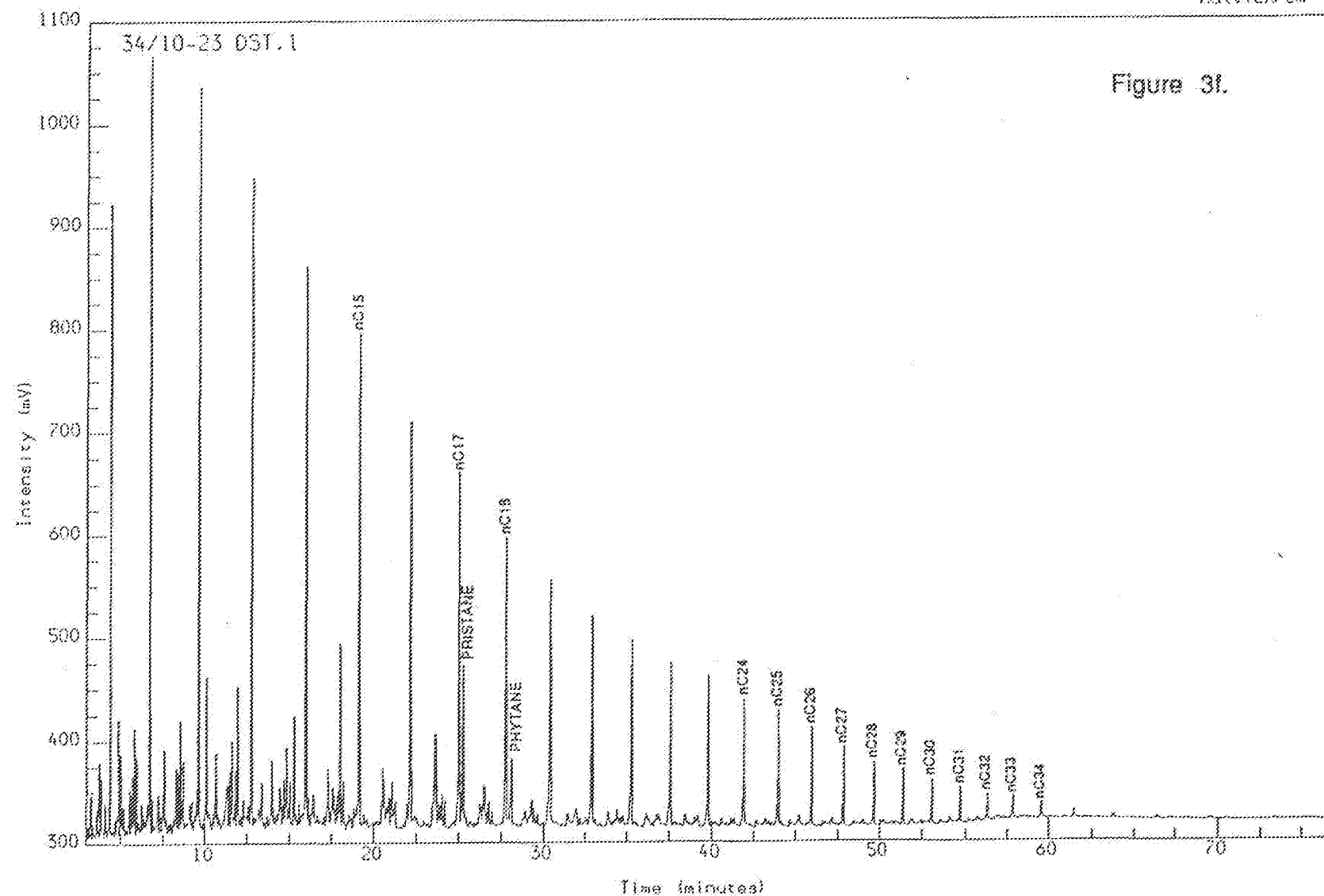
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 56340362088.2.1.

Multichrom



WELL 34/10-23
SATURATED GC

DST.1

Reported on 4-DEC-1992 at 08:26

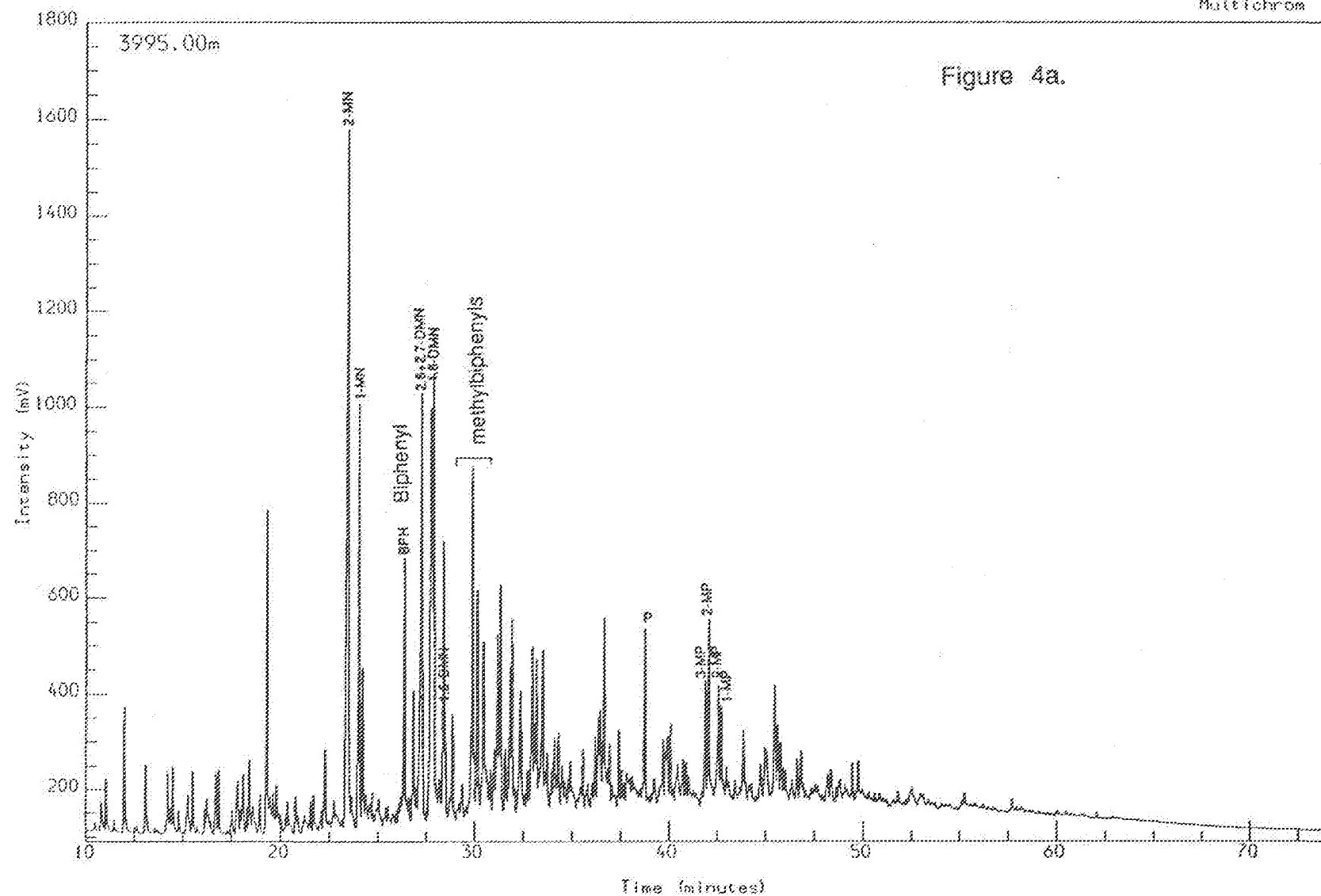
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AH4700610B.4.1.

Multichrom



WELL NOCS 34/10-35 3984-3995m
AROMATIC GC (FID)

Reported on 31-AUG-1992 at 10:13

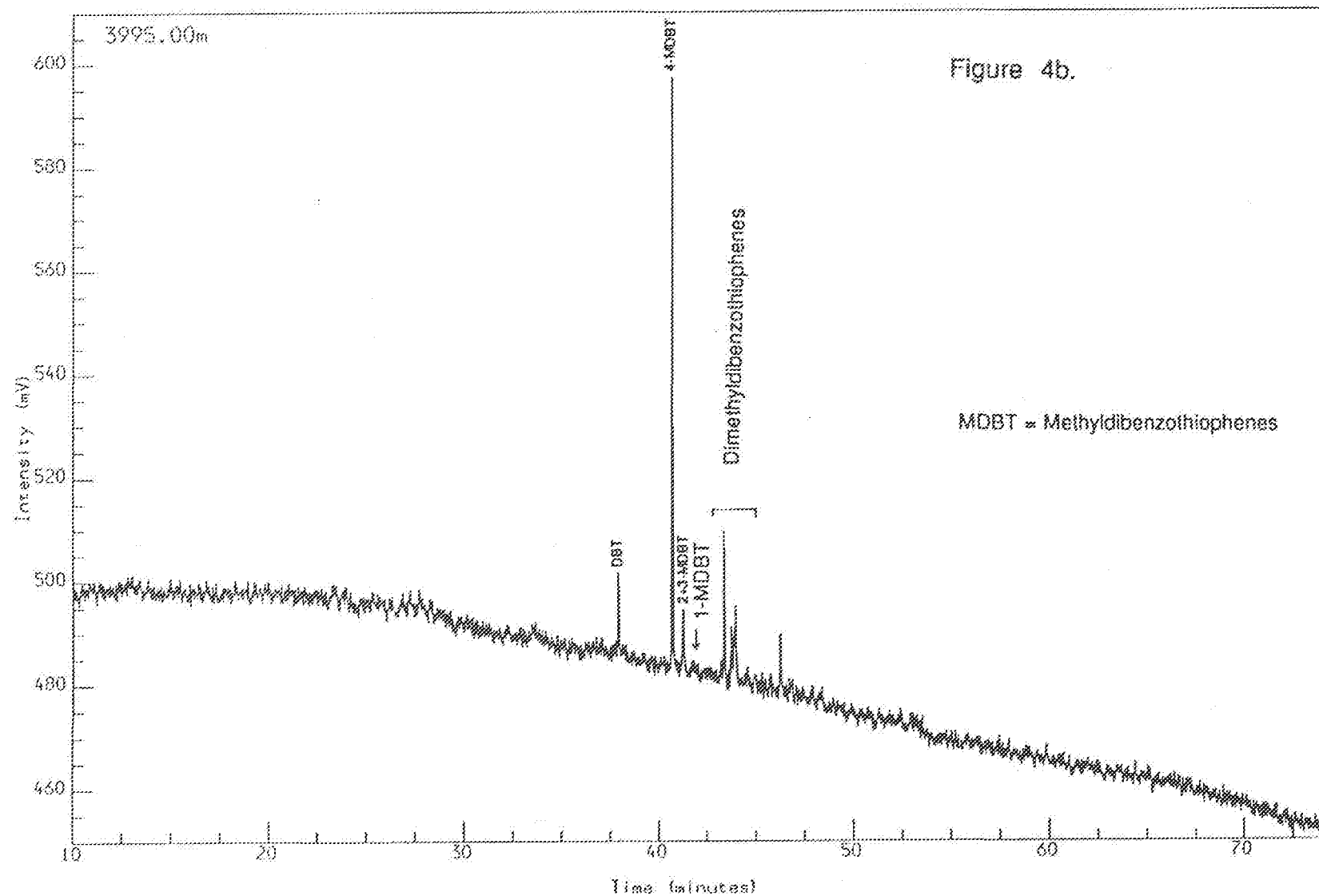
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 RH4700610B.4.1.

Multichrom



WELL NOCS 34/10-35 3984-3995m
AROMATIC GC (FPD)

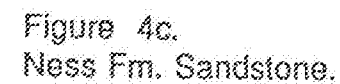
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Schlumberger

GECO-PRAKLA

GEOLAB NOR

Multichrom

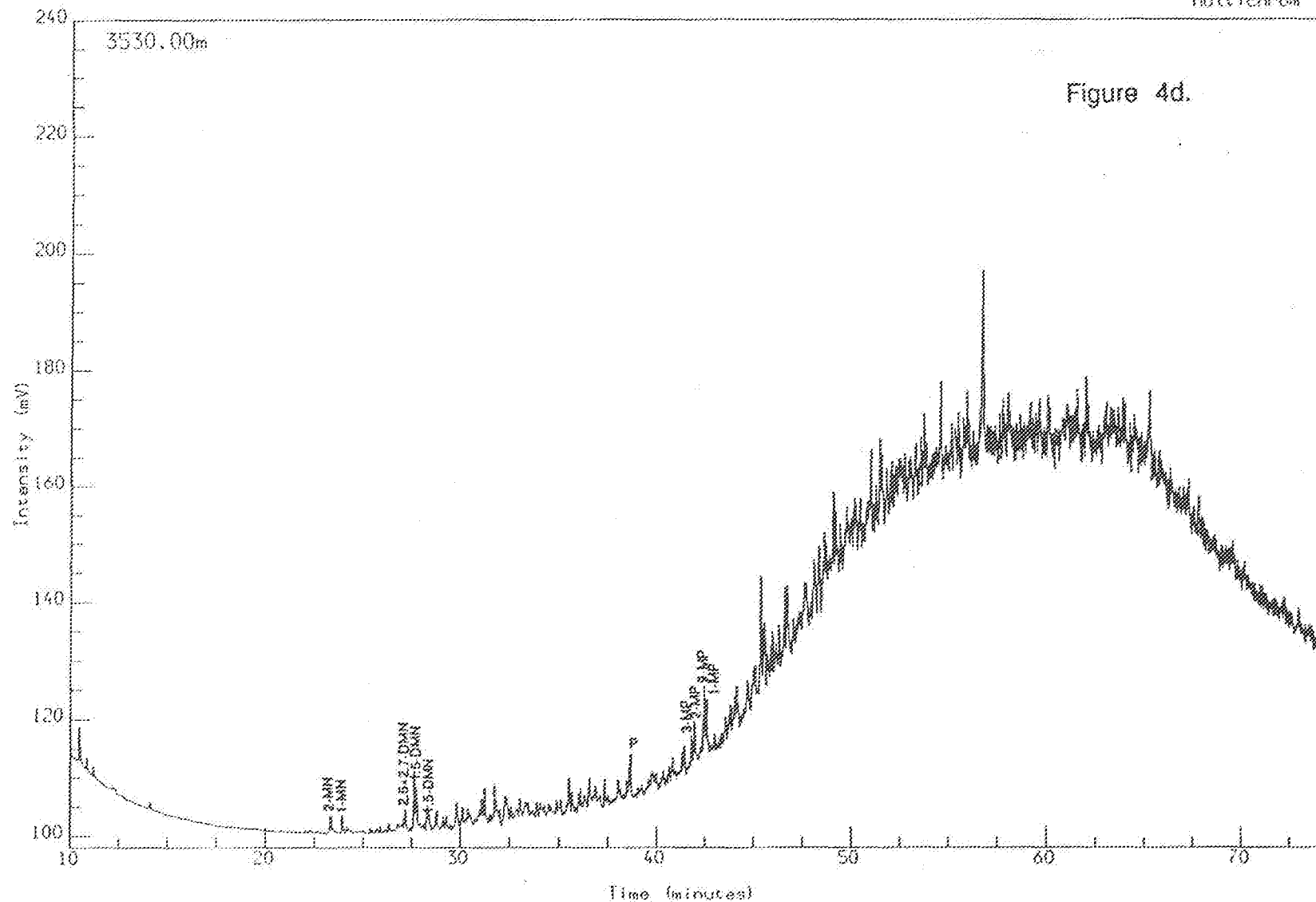


Reported on 31-AUG-1992 at 05:17

GEOLABTMNOR

Analysis Name : [526265] 29 AG3403581L, 3.1.

Multichrom



WELL NOCS 34/10-35

3530.00m cut

Reported on 31-AUG-1992 at 05:00

AROMATIC GC (FID)

Marl: y gy to lt gy

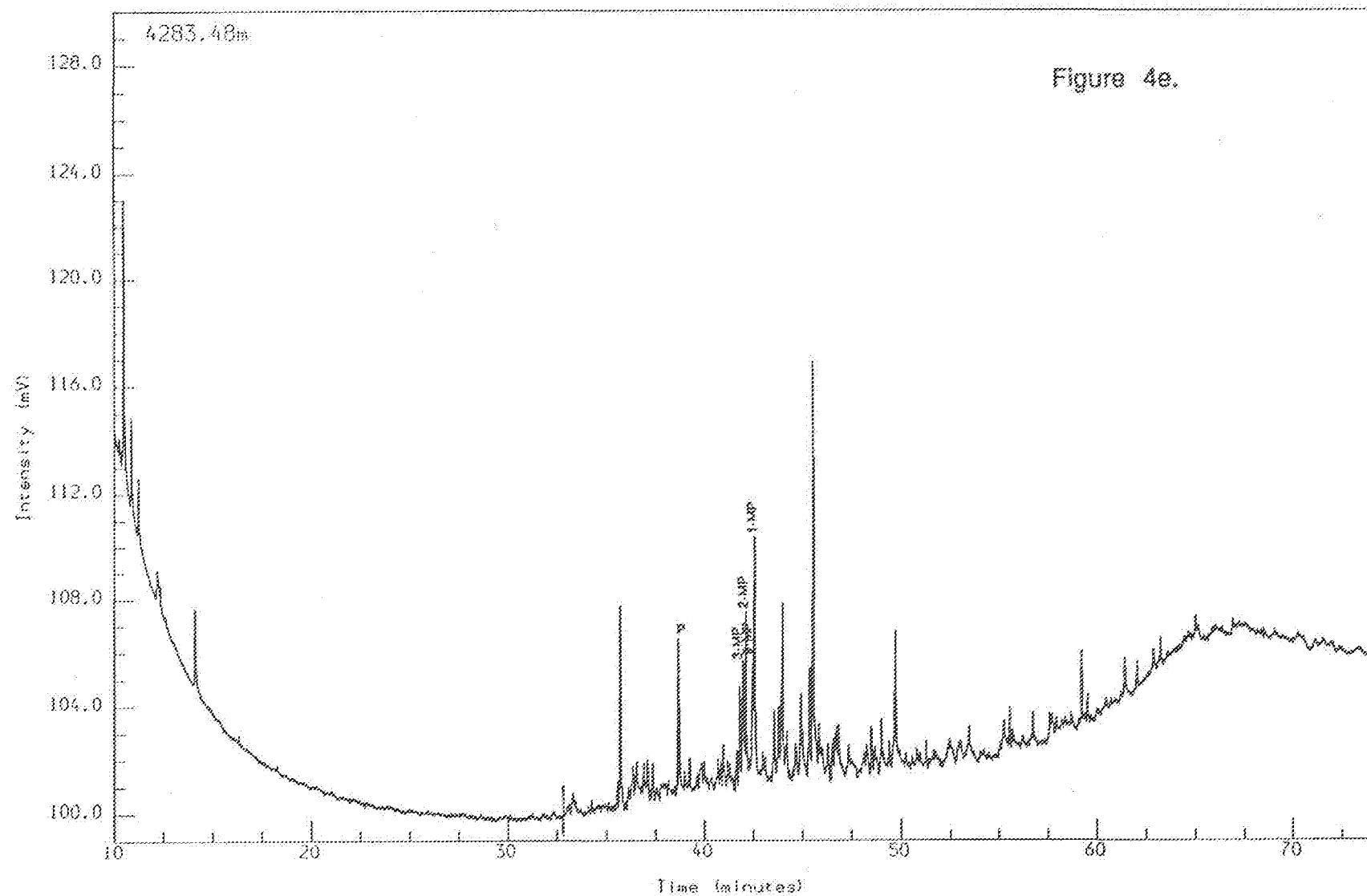
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AG3403581L,13,1.

Multichrom



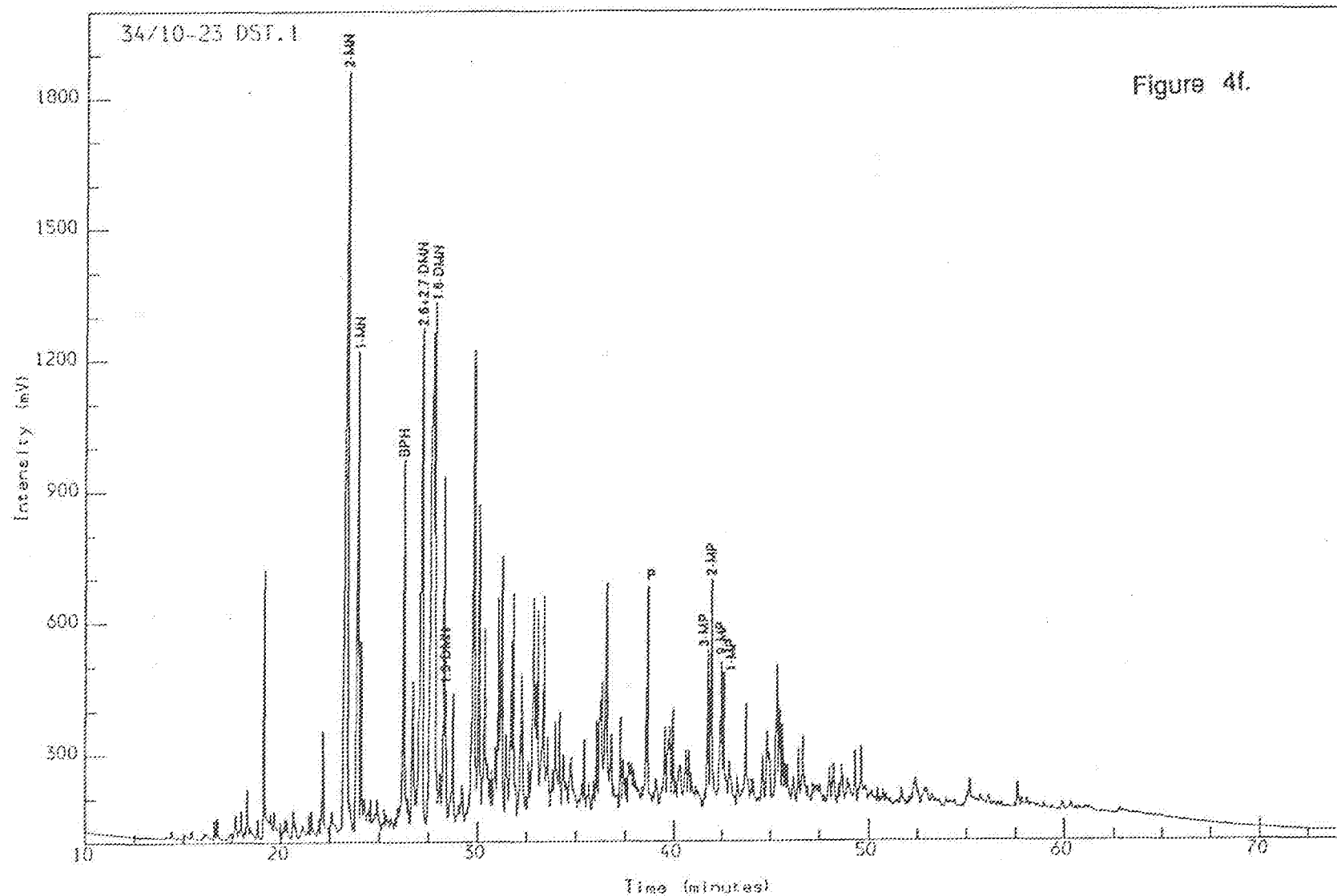
WELL NOCS 34/10-35 4283.48m ccp
AROMATIC GC (FID)
S/Sst: 1t gy w to 1t gy

Reported on 31-AUG-1992 at 05:30

Schlumberger

GECO-PRAKLA

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WELL 34/10-23 DST.1
AROMATIC GC (FID)

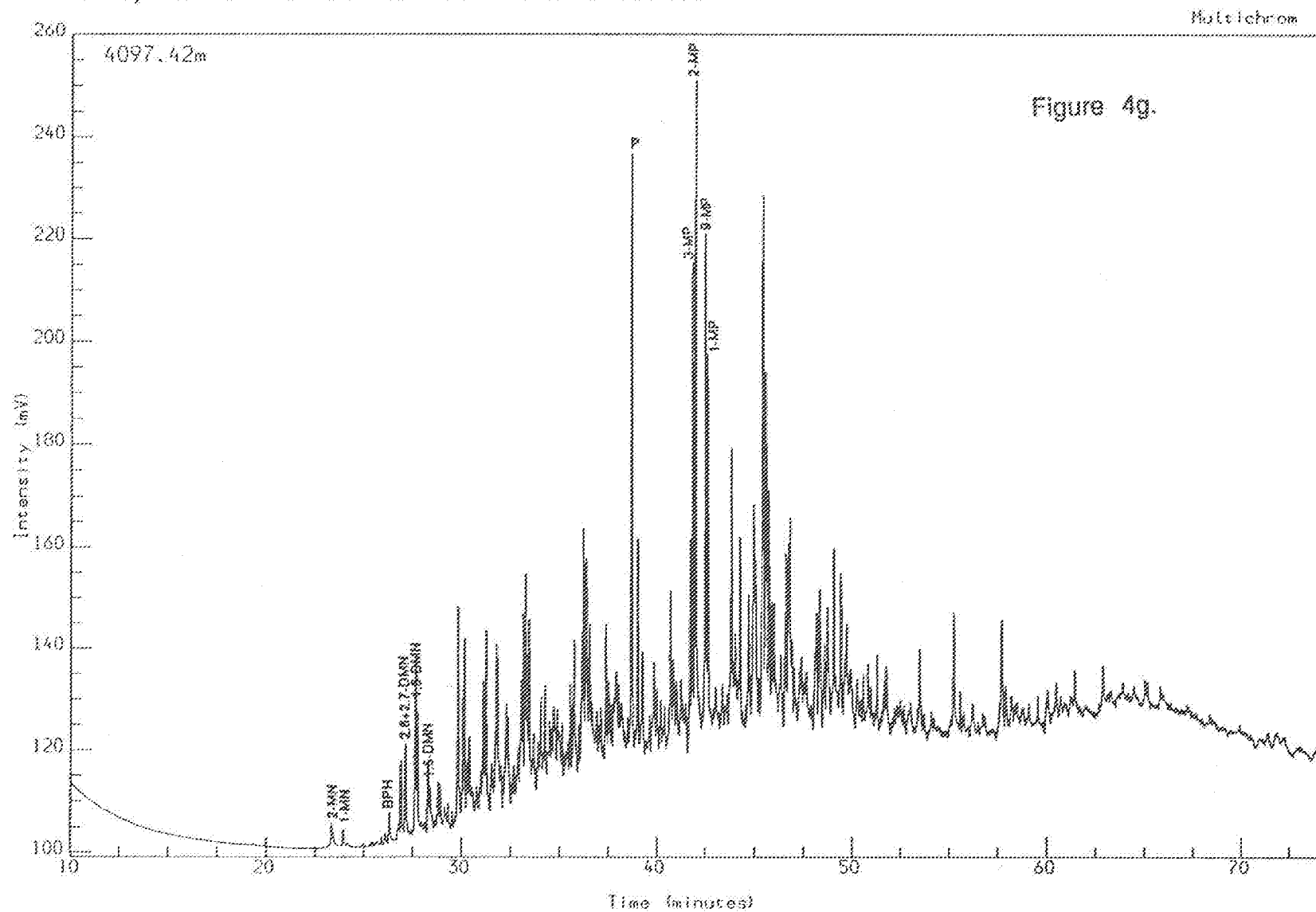
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Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AH4700610B.6.1.



WELL NOCS 34/10-23 4097.42m ccp

AROMATIC GC (FID)

Reported on 24-SEP-1992 at 12.37

S/Sst: lt gy to brn gy to pl brn

Schlumberger

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Figure 5a. Aromatic v.s. saturate isotope values
Wells NOCS 34/10-23 and 34/10-35

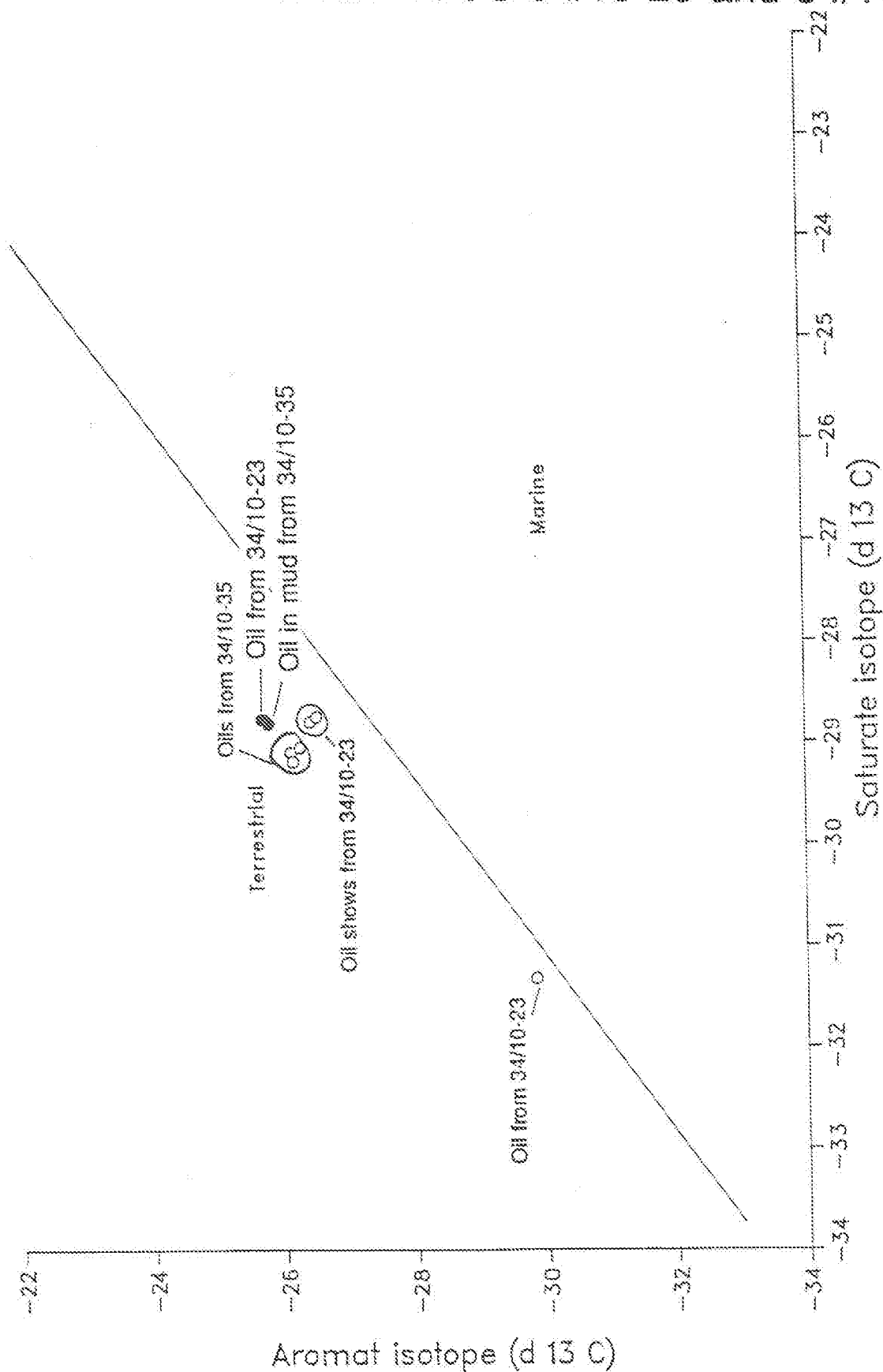


Figure 5b: $^{13}\text{C}/^{12}\text{C}$ isotope ratios. Galimov plot.
Well NOCS 34/10-35

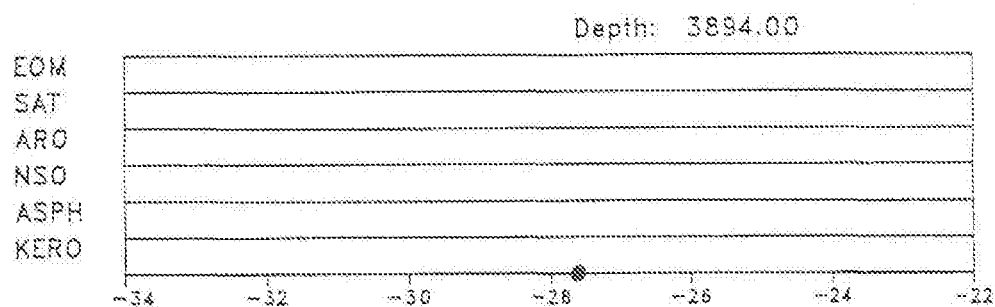
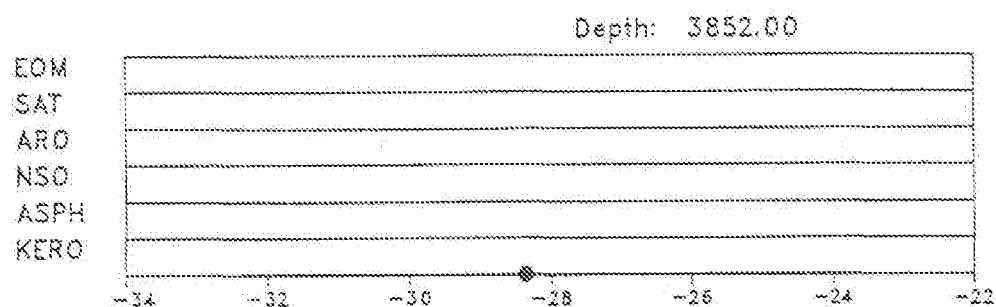
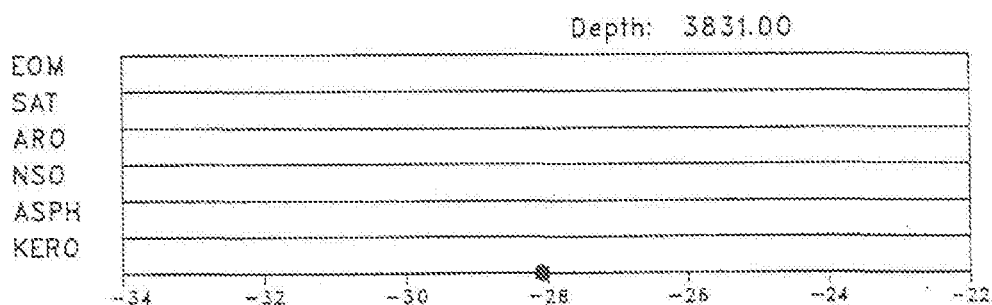
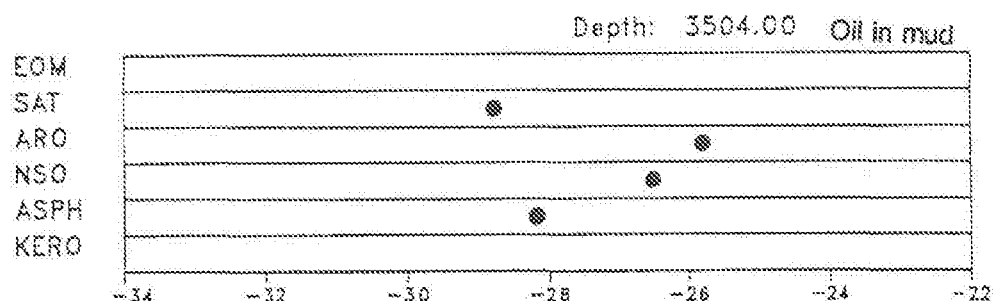


Figure 5b: $^{13}\text{C}/^{12}\text{C}$ isotope ratios. Galimov plot.
Well NOCS 34/10-35

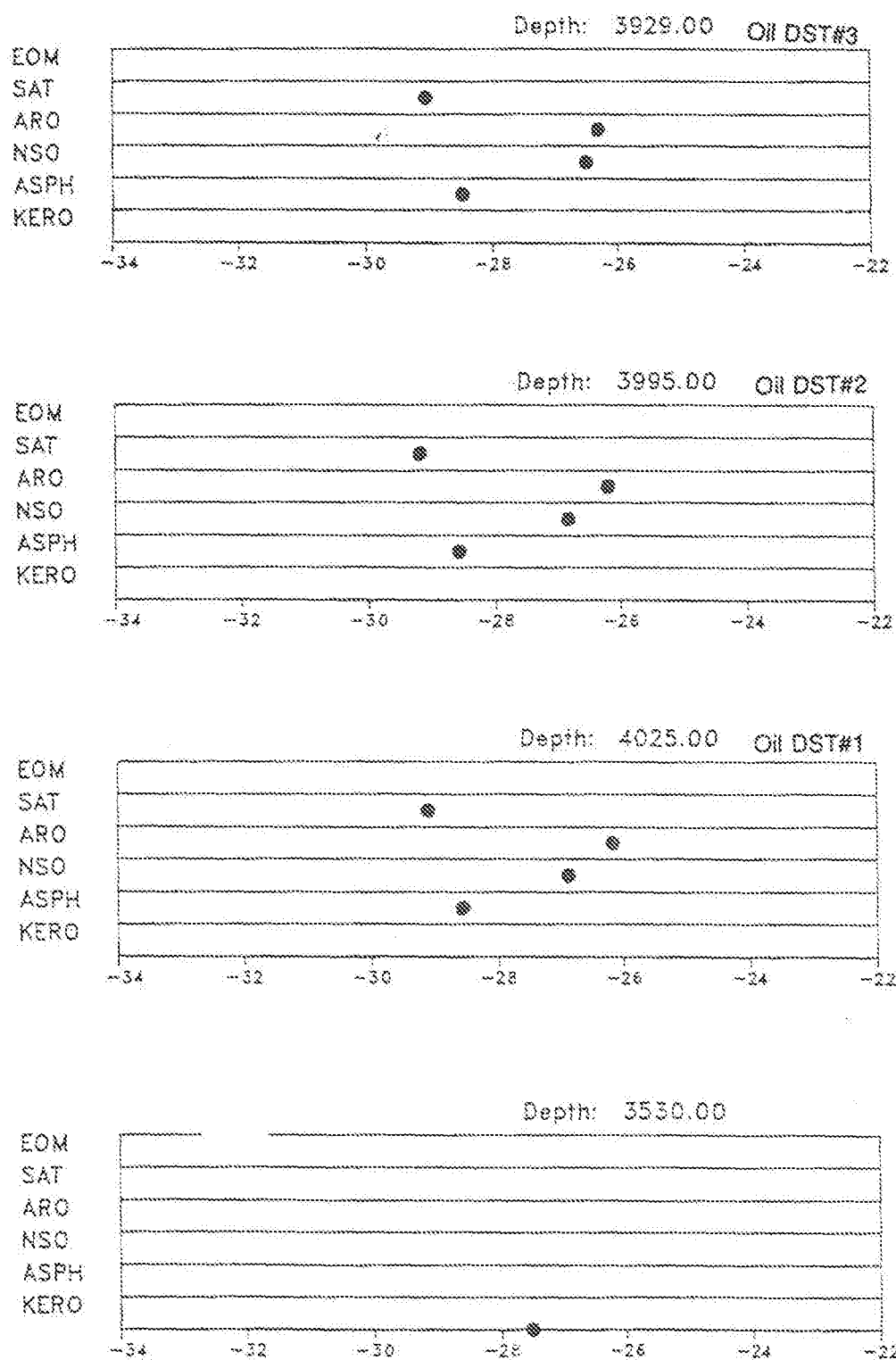
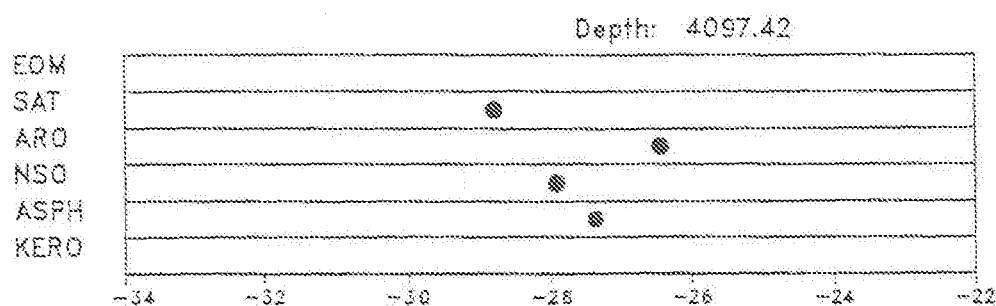
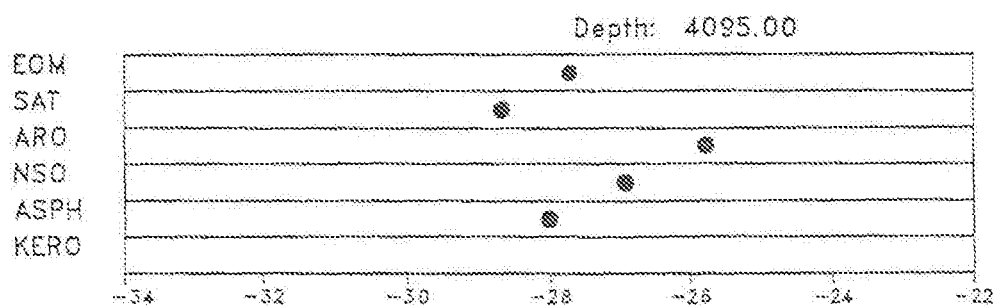
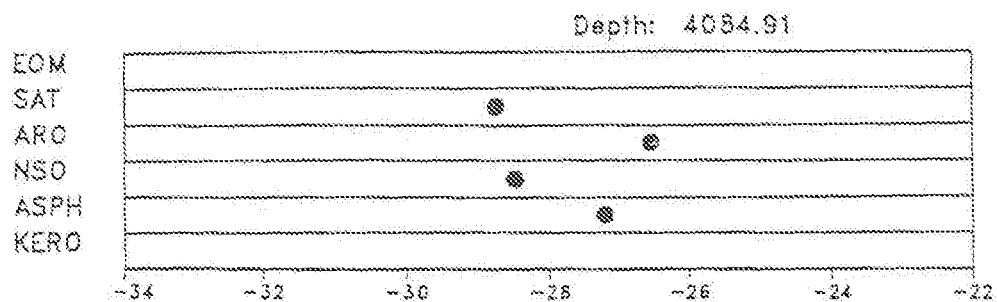
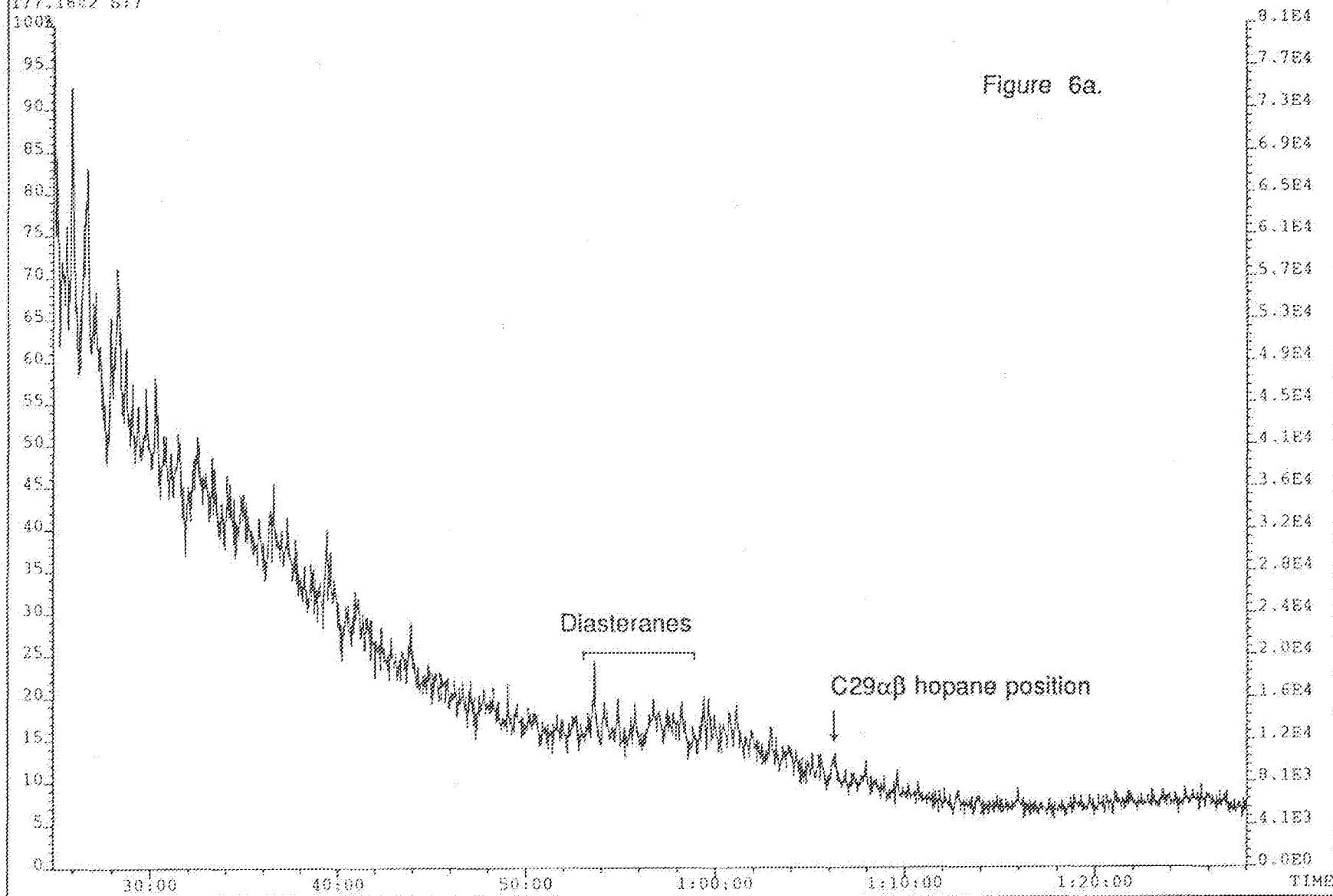


Figure 5b: $^{13}\text{C}/^{12}\text{C}$ isotope ratios. Galimov plot.
Well NOCS 34/10-23



FILE:STATSAT1 #1-1740 AC3:23-SEP-1992 11:38:02 EI: Magnet SIR
Sample#7 Text:WELL 34/10-35, BSE1, 4015-25M, SATURATED FRACTION FROM OIL
177.1642 S:7

Exp:SAT1



Schlumberger

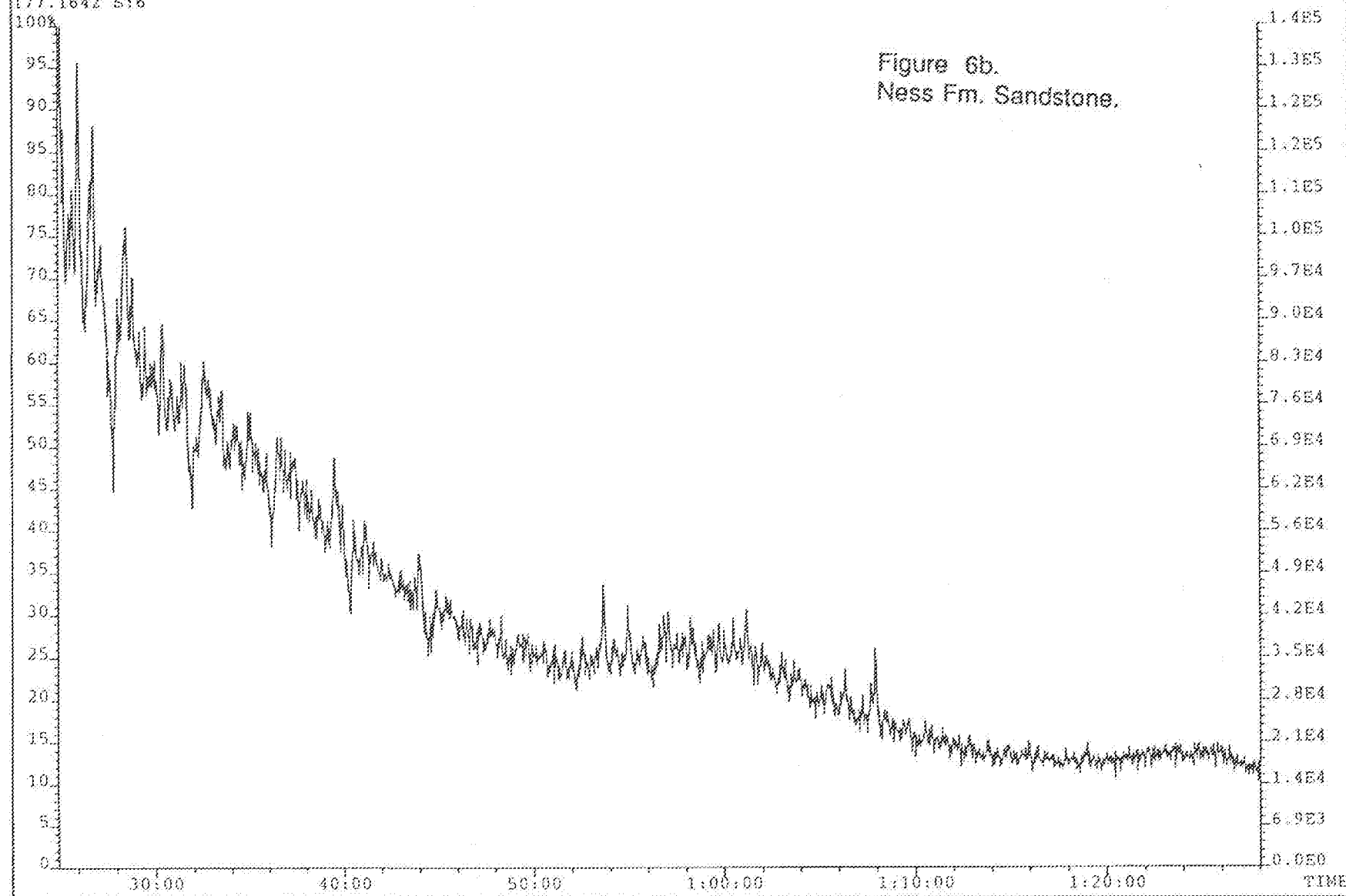
GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4719 Acq:22-SEP-1992 14:21:15 EI+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3931.71M, SATURATED FRACTION
177.1642 S:6

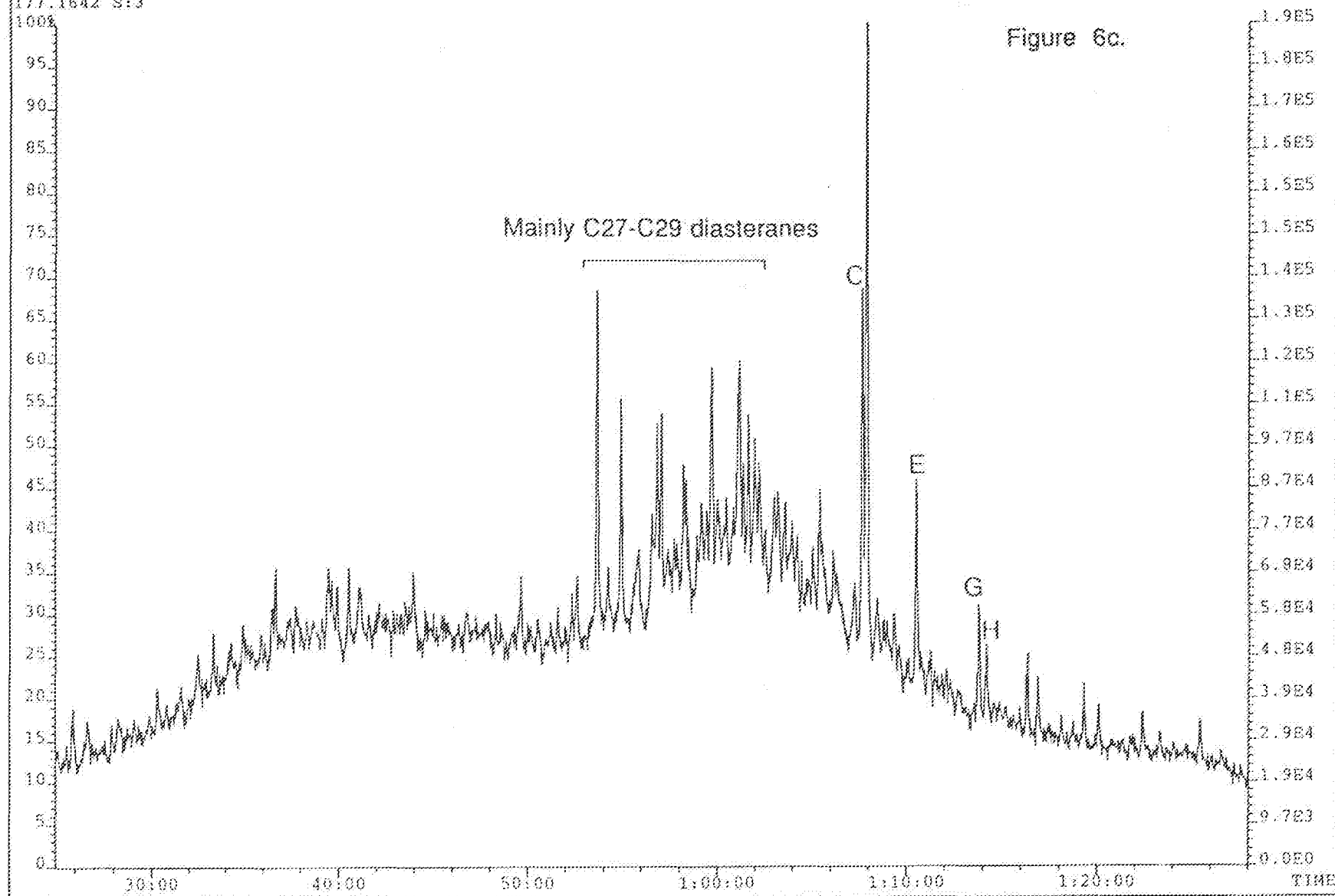
Exp:SAT1

Figure 6b.
Ness Fm. Sandstone.



File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 E1+ Magnet SIR
Sample#3 Text:WELL 34/10-35, 3530M, SATURATED FRACTION
177.1642 S:3

Exp:SAT1



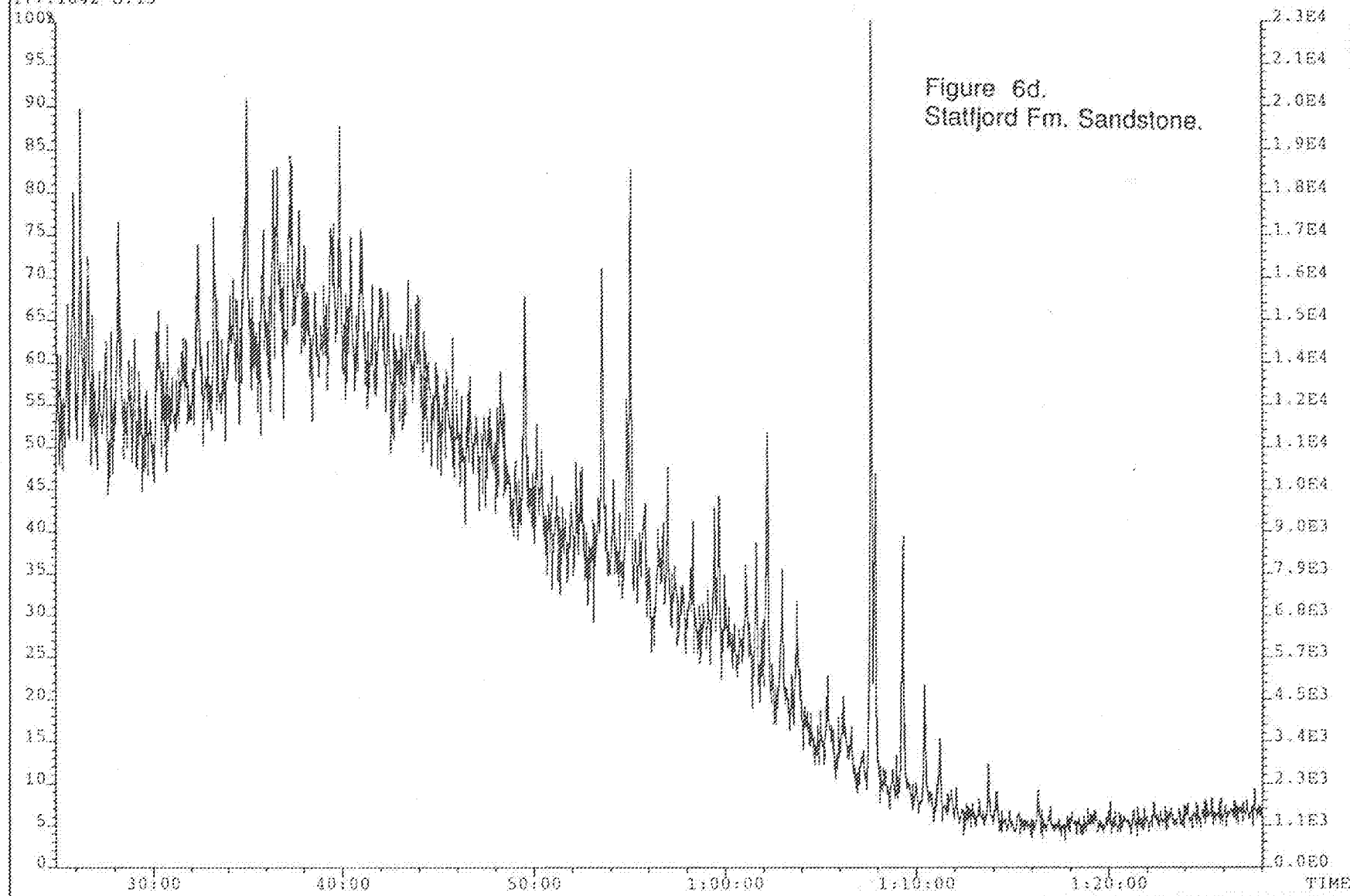
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:27-SEP-1992 14:23:15 El: Nagaet SIR
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177.1642 S:13

Exp:SAT1



Schlumberger

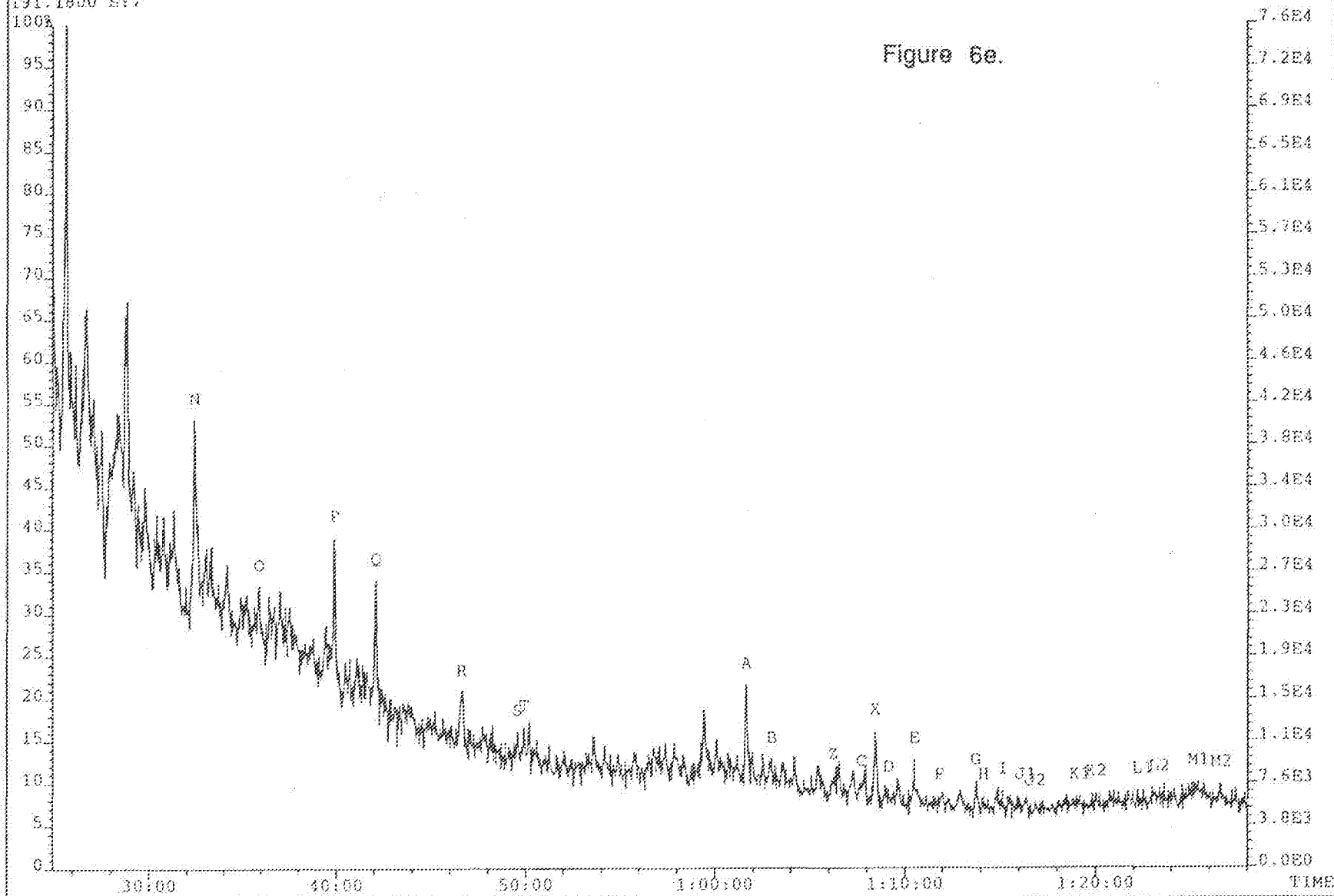
GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 W1-4740 Acq:23-SEP-1992 13:30:02 EI+ Magnet SIR
Sample#7 Text:WELL 34/10-35, DST1, 401S-25M, SATURATED FRACTION FROM OIL
191.1800 S:7

Exp:SAT1

Figure 6e.



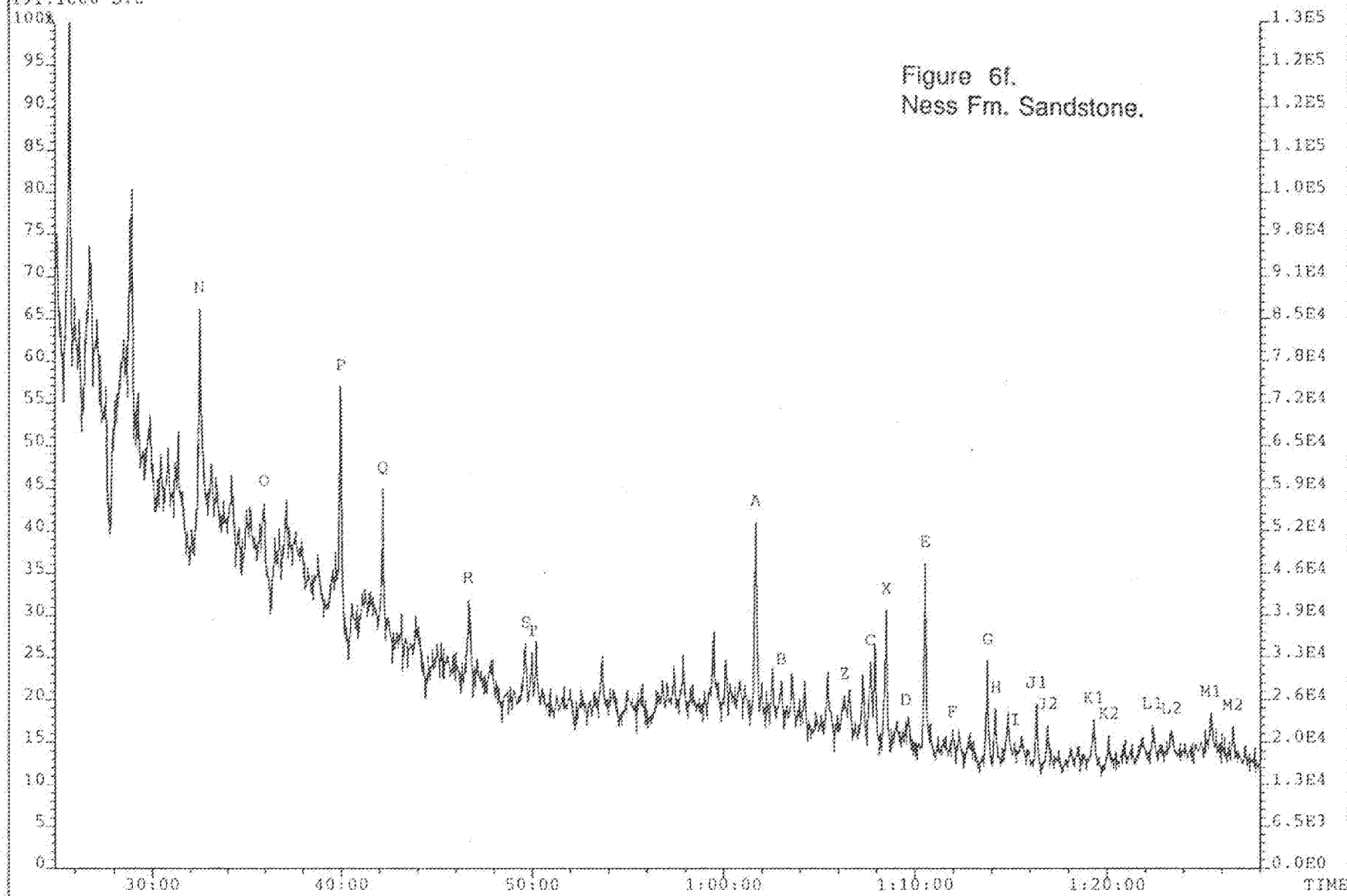
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
 Sample#6 Text:WELL 34/10-35, 3931.71M, SATURATED FRACTION
 191.1800 S:6

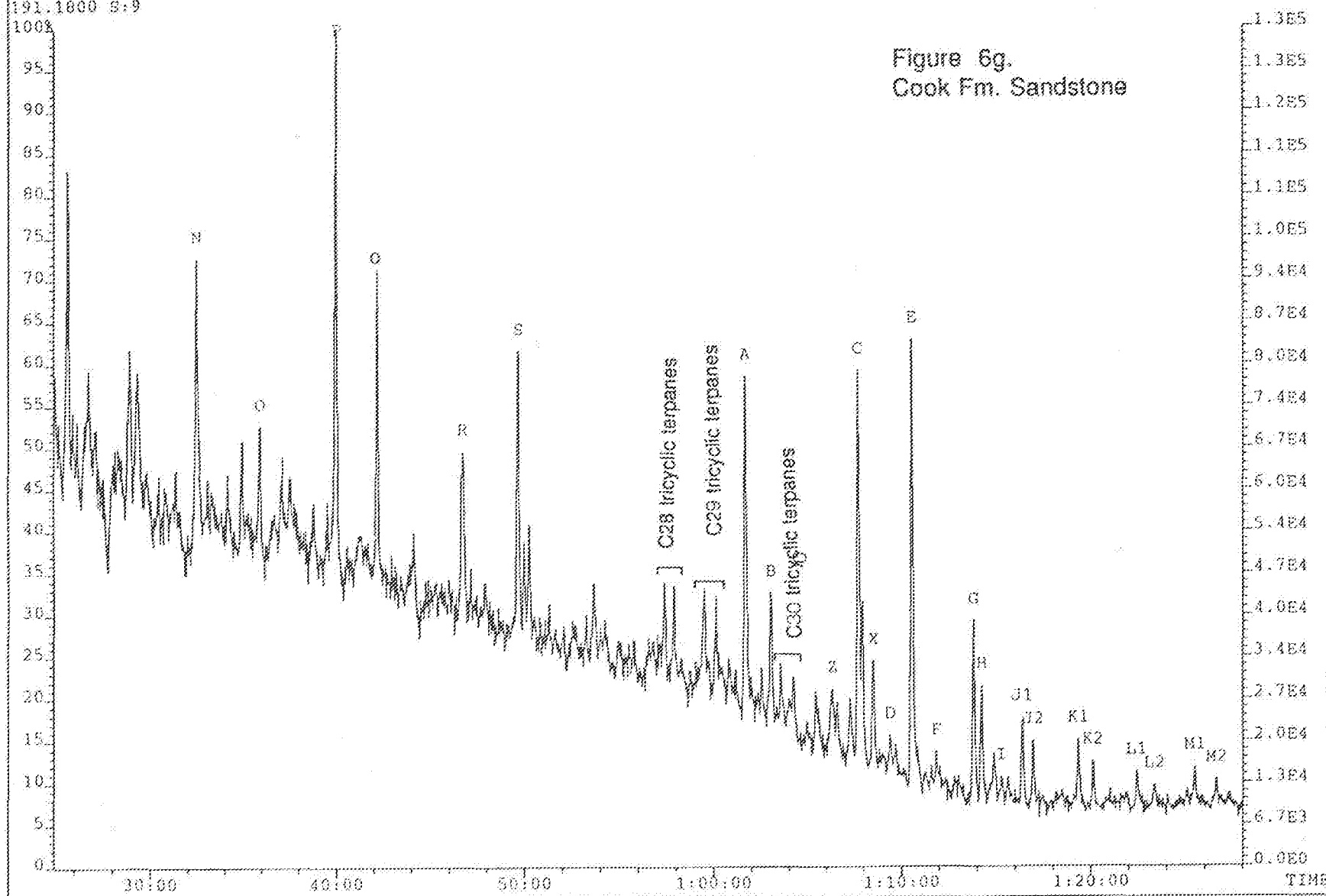
Exp:SAT1



File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EIP Magnet SIR
 Sample#9 Text:WELL 34/10-35, 4006.17M, SATURATED FRACTION
 191.1800 S:9

Exp: SAT1

Figure 6g.
 Cook Fm. Sandstone



Schlumberger

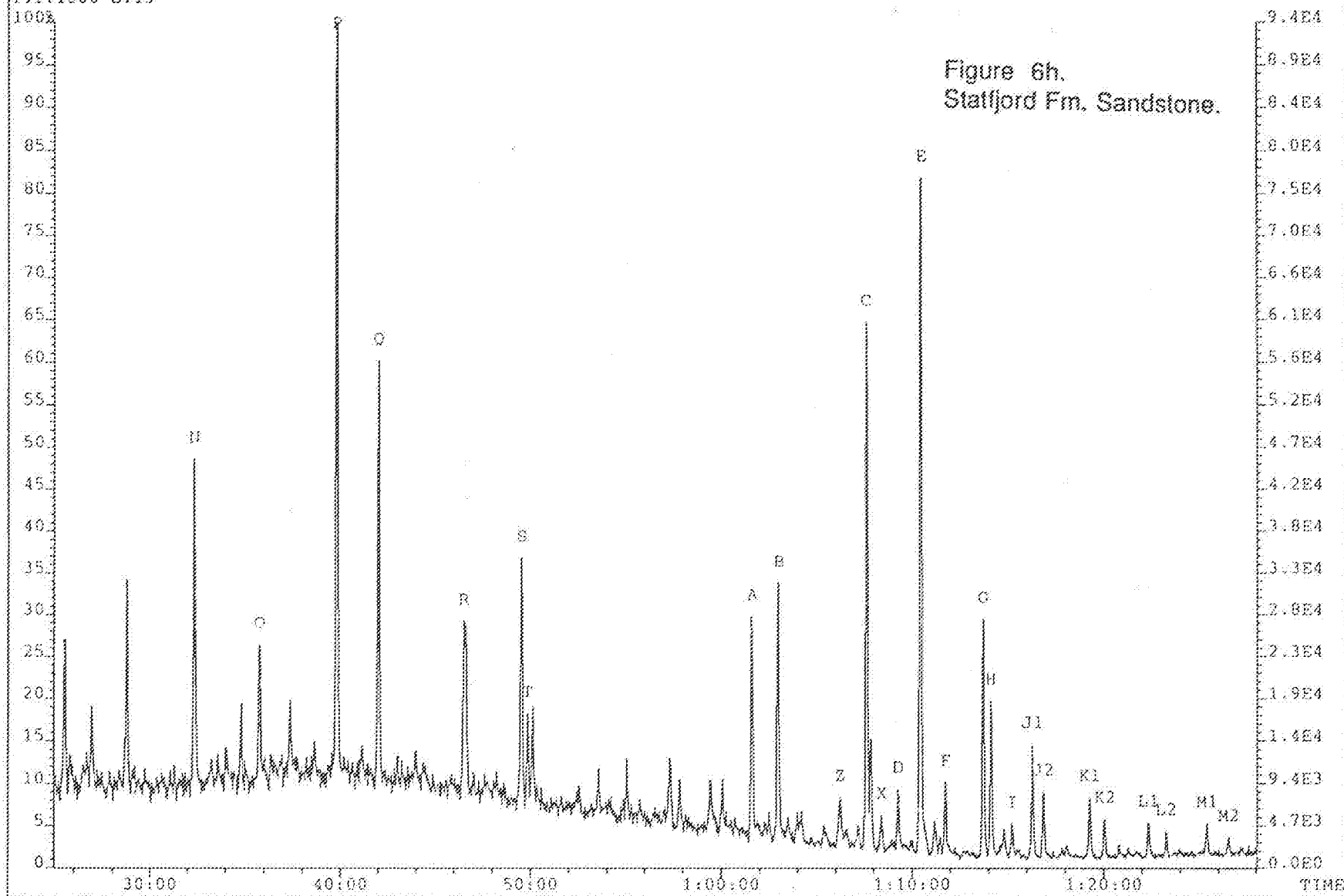
GECO-PRAKLA

GEOLAB NOR

File: STATSAT1 #1-4740 Acq:22-SEP-1992 14:23:15 EI: Magnet SIR
 Sample#13 Text:WELL 34/10-35, 4293.49M, SATURATED FRACTION
 191.1800 S:13

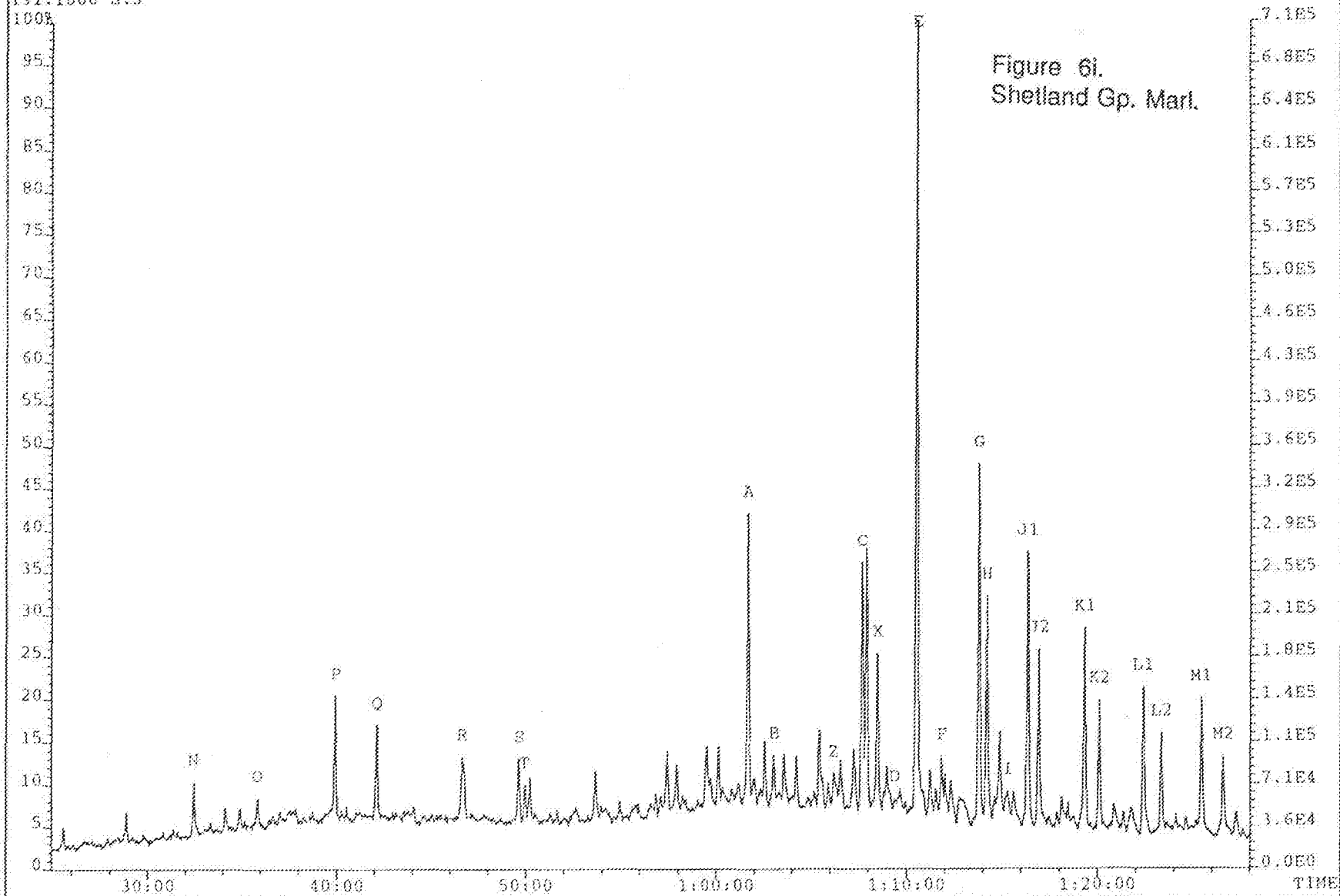
Exp:SAT1

Figure 6h.
 Statfjord Fm. Sandstone.



File: SATSAT1 #1-4739 Acq: 22-SEP-1993 04:23:15 EI+ Magnet SIN
 Sample#3 Text: WELL 34/10-35, 3530M, SATURATED FRACTION
 191.1800 S:3

Exp: SAT1



Schlumberger

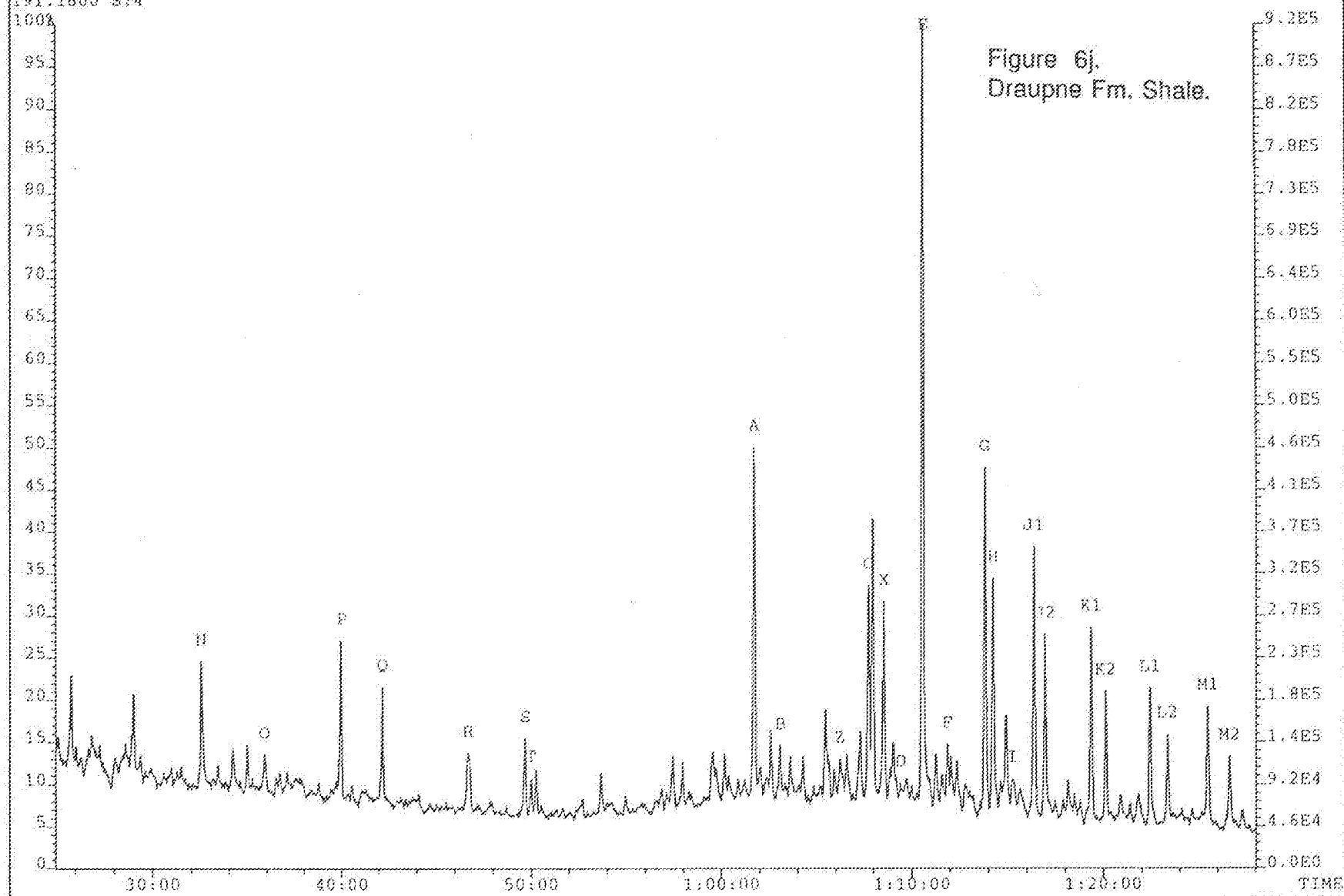
GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
 Sample#4 Text:WELL 34/10-35, 3831M, SATURATED FRACTION
 191.1800 S:4

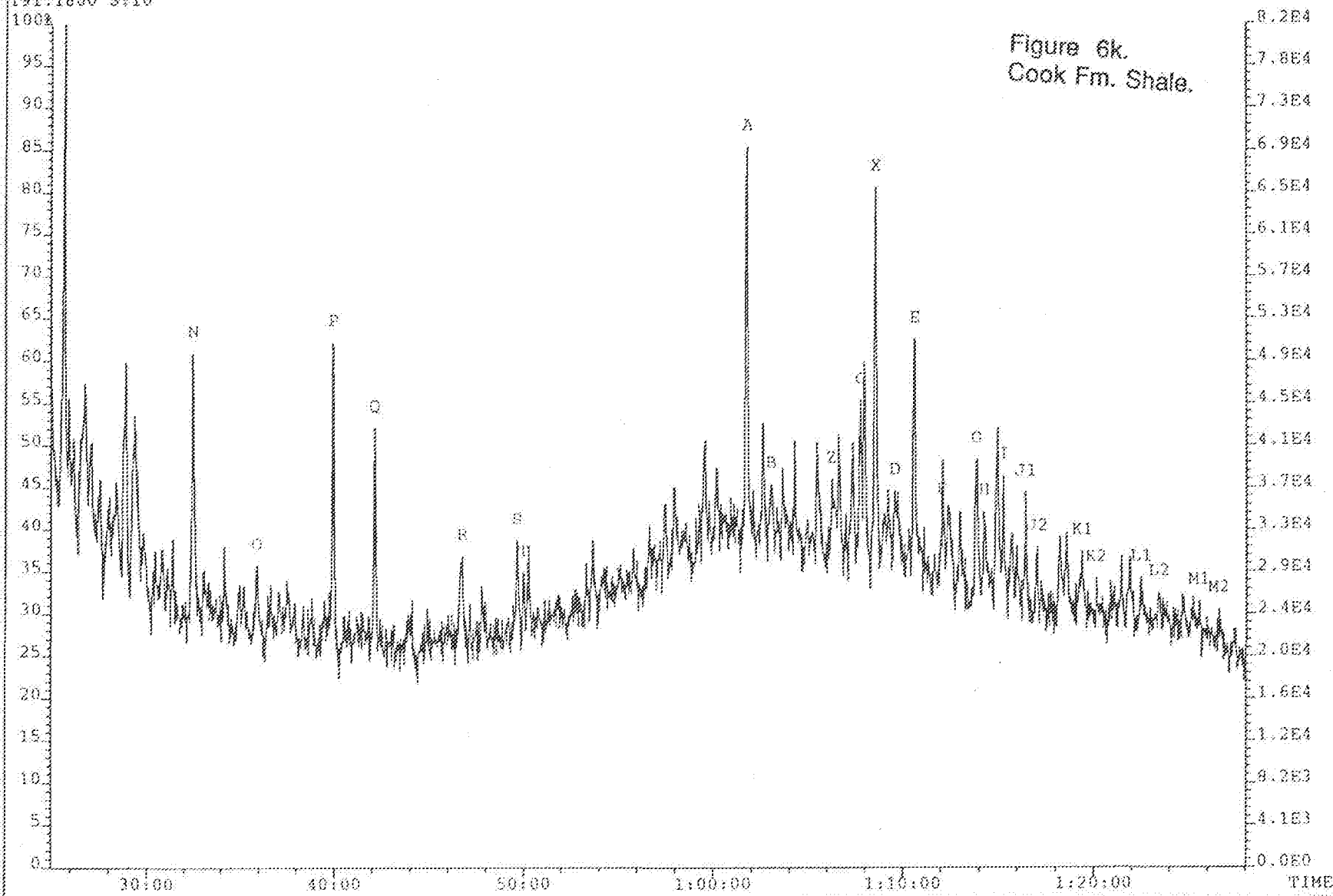
Exp:SAT1

Figure 6j.
 Draupne Fm. Shale.



File:STATSAT2 HI-4739 Acq:22-SEP-1992 14:23:15 EI: Magnet SIR
 Sample#10 Text:WELL 34/10-35, 4021.93M, SATURATED FRACTION
 191.1800 S:10

Exp:SAT1

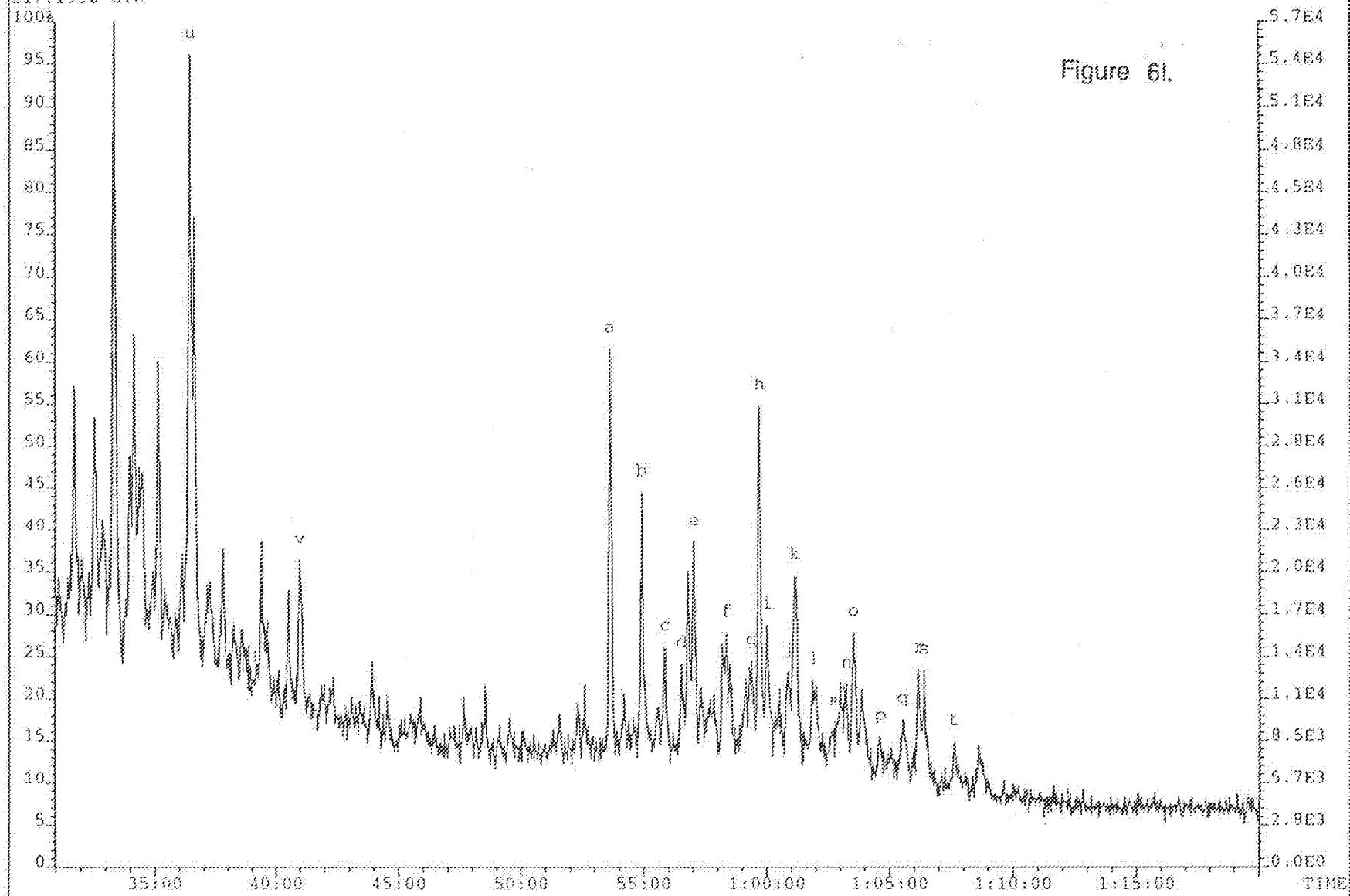


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSATJ #1-4740 Acq:23-SEP-1992 11:30:02 EI+ Magnet SIR
 Sample#8 Text:WELL 34/10-35, DST2, 1984-1995M, SATURATED FRACTION FROM OIL Exp:SAT1
 217.1956 S:8



Schlumberger

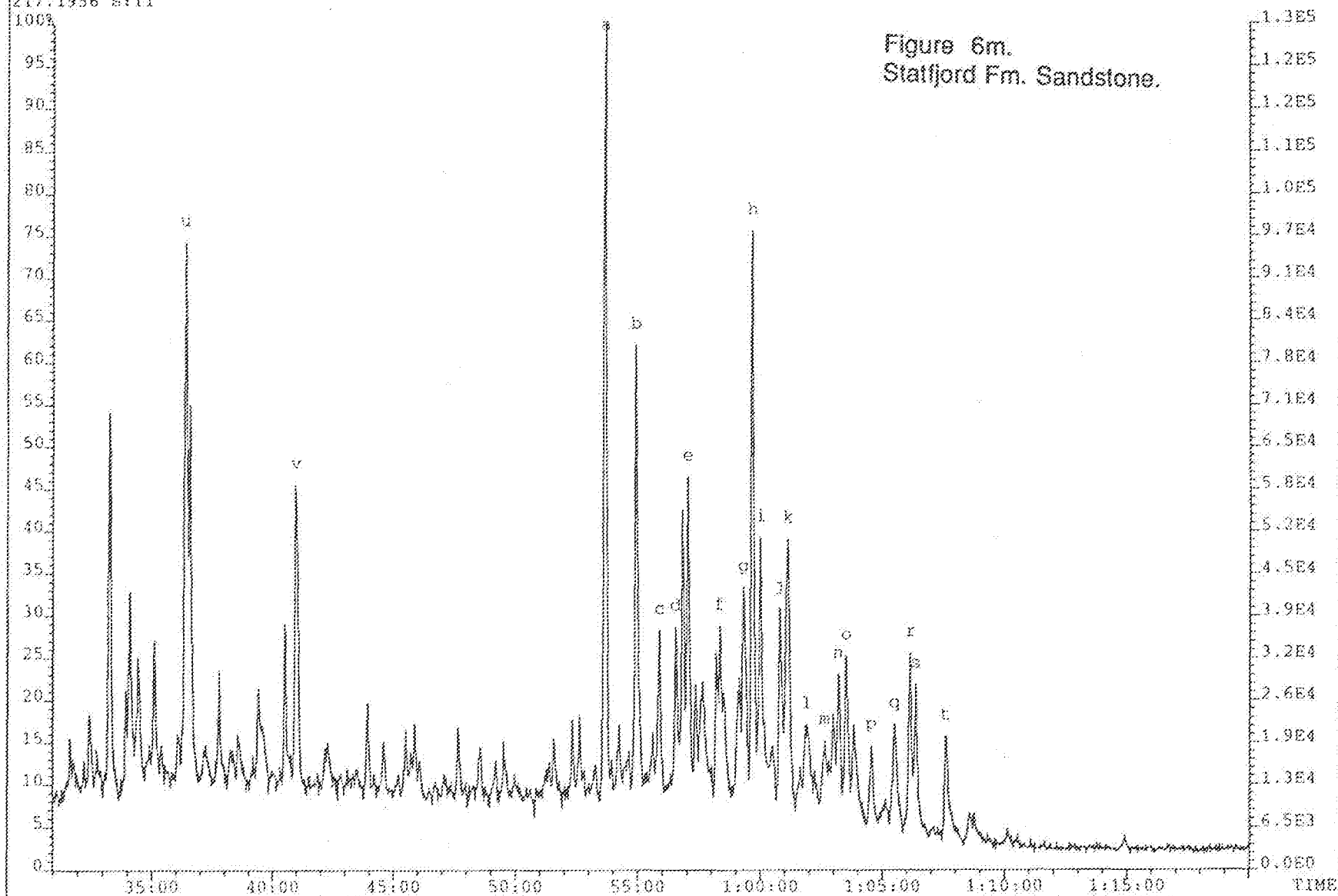
GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 W1-4741 Acq:21-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#11 Text:WELL 34/10-35, 4257.47M, SATURATED FRACTION
217.1956 S:11

Exp:SAT1

Figure 6m.
Statfjord Fm. Sandstone.



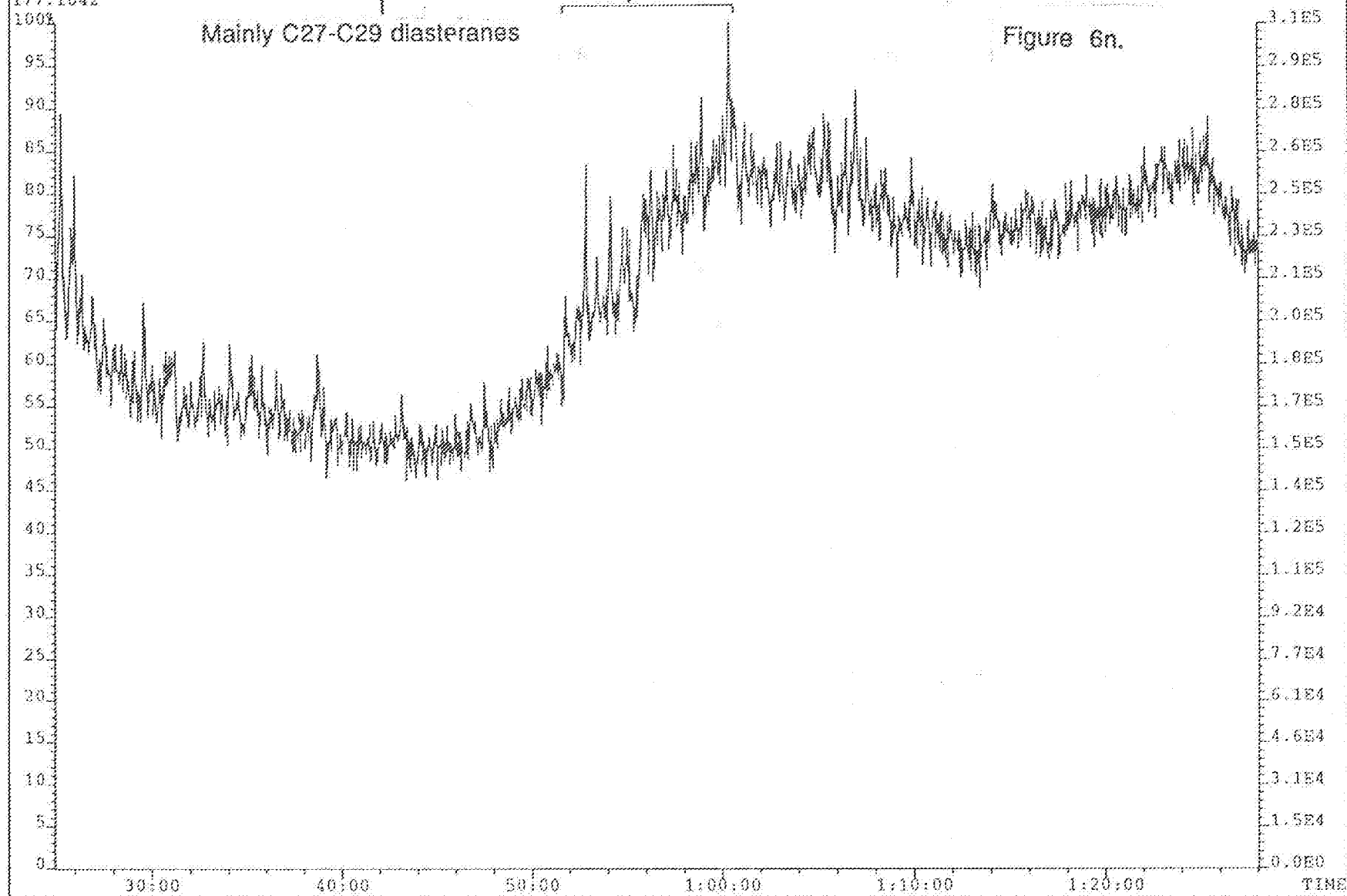
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATTST3 #1-4896 Acq: 2-DEC-92 09:49:15 EI+ Magnet SIR
Sample#1 Text: WELL 34/10-23, DST1, SATURATED FRACTION
177.1642

Exp: SAT1A



Schlumberger

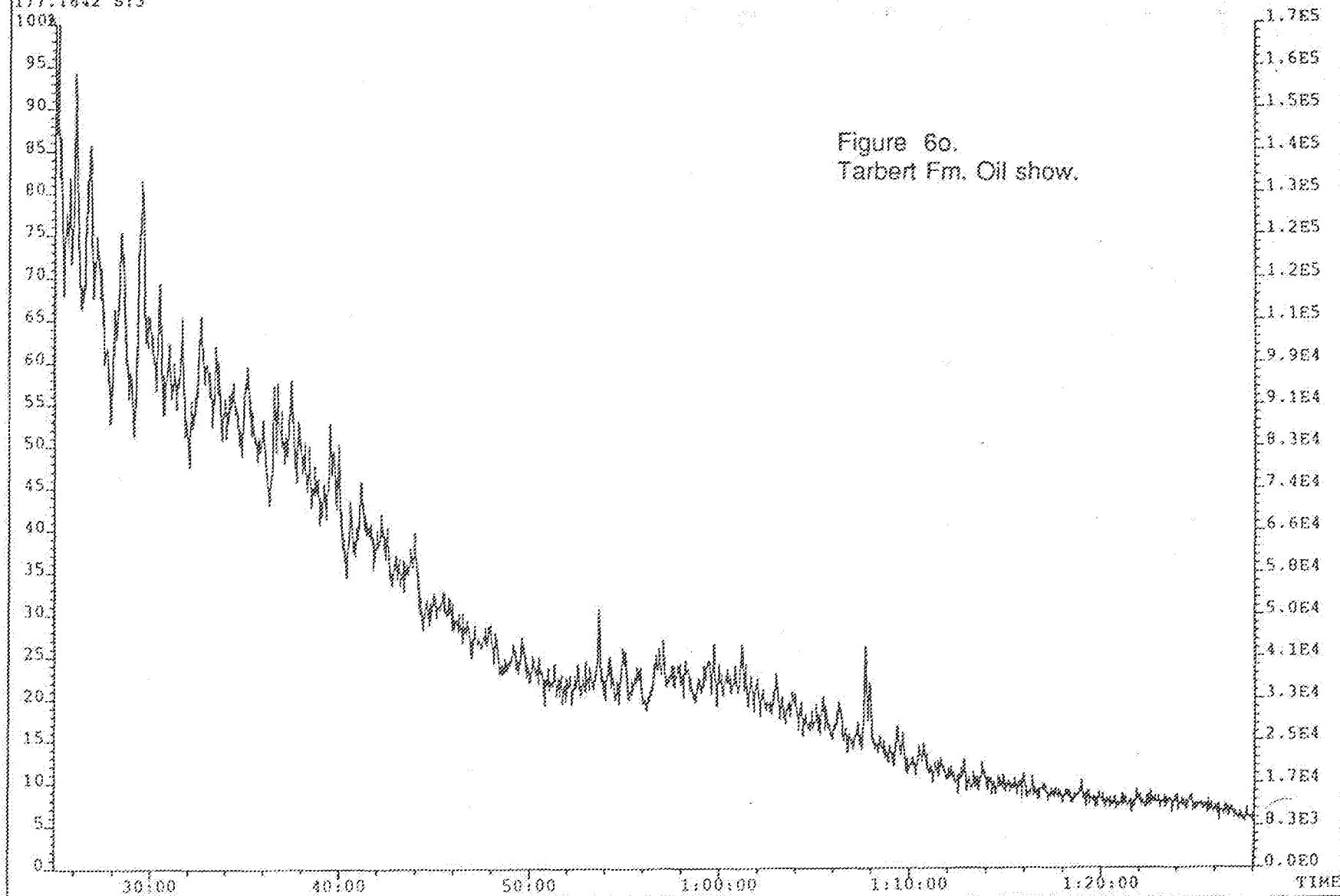
GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992 13:30:02 E1+ Magnet SIR
Sample#3 Text:WELL 34/10-23, 4084.91M, SATURATED FRACTION
177.1642 S:3

Exp: SAT1

Figure 6o.
Tarbert Fm. Oil show.



Schlumberger

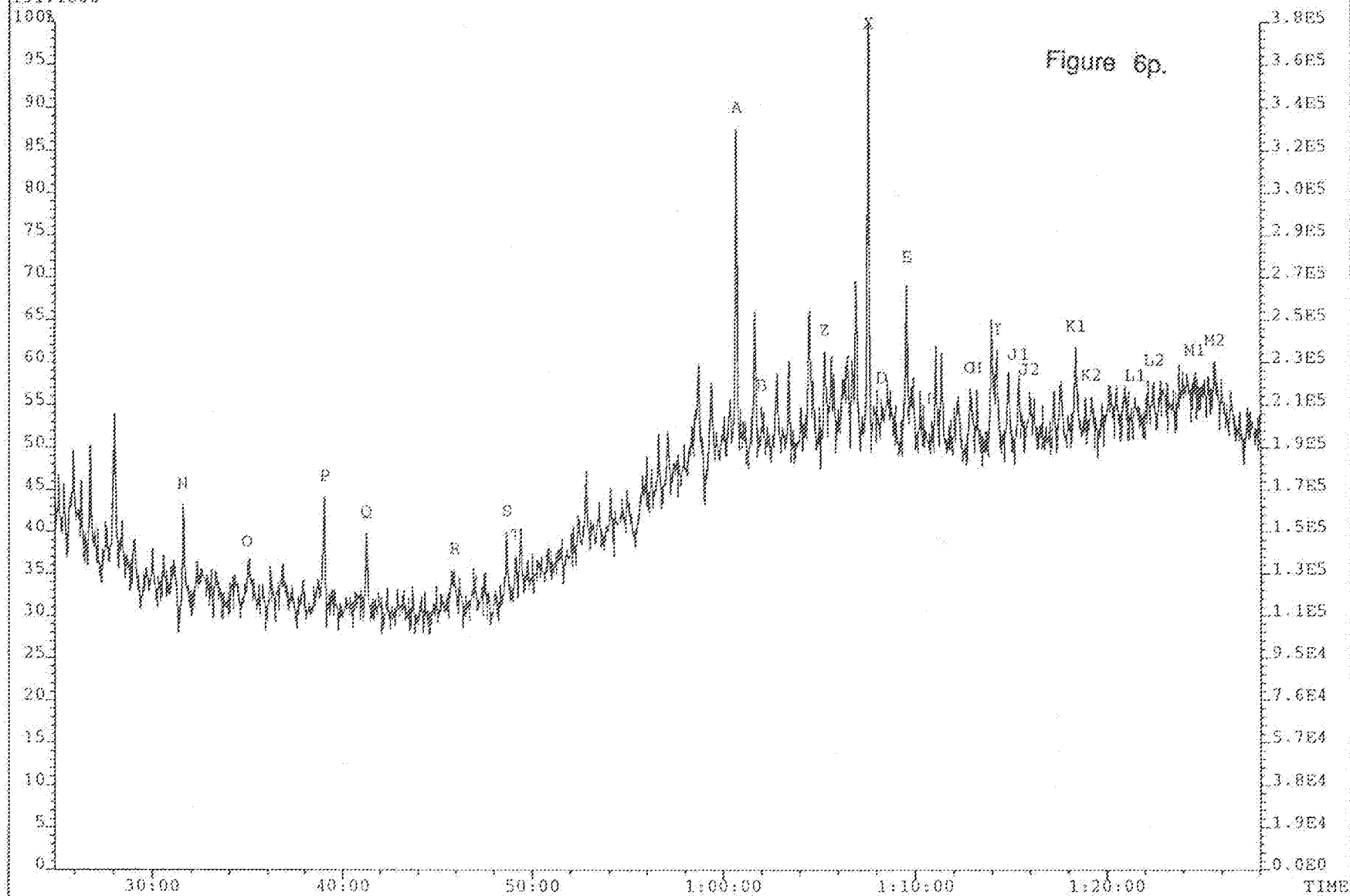
GECO-PRAKLA

GEOLAB NOR

File:STATST3 #1-4896 Acq:2-DEC-92 09:49:15 E1+ Magnet SIR
 Sample#1 Text:WELL 34/10-23, DST1, SATURATED FRACTION
 191.1800

Exp: SAT1A

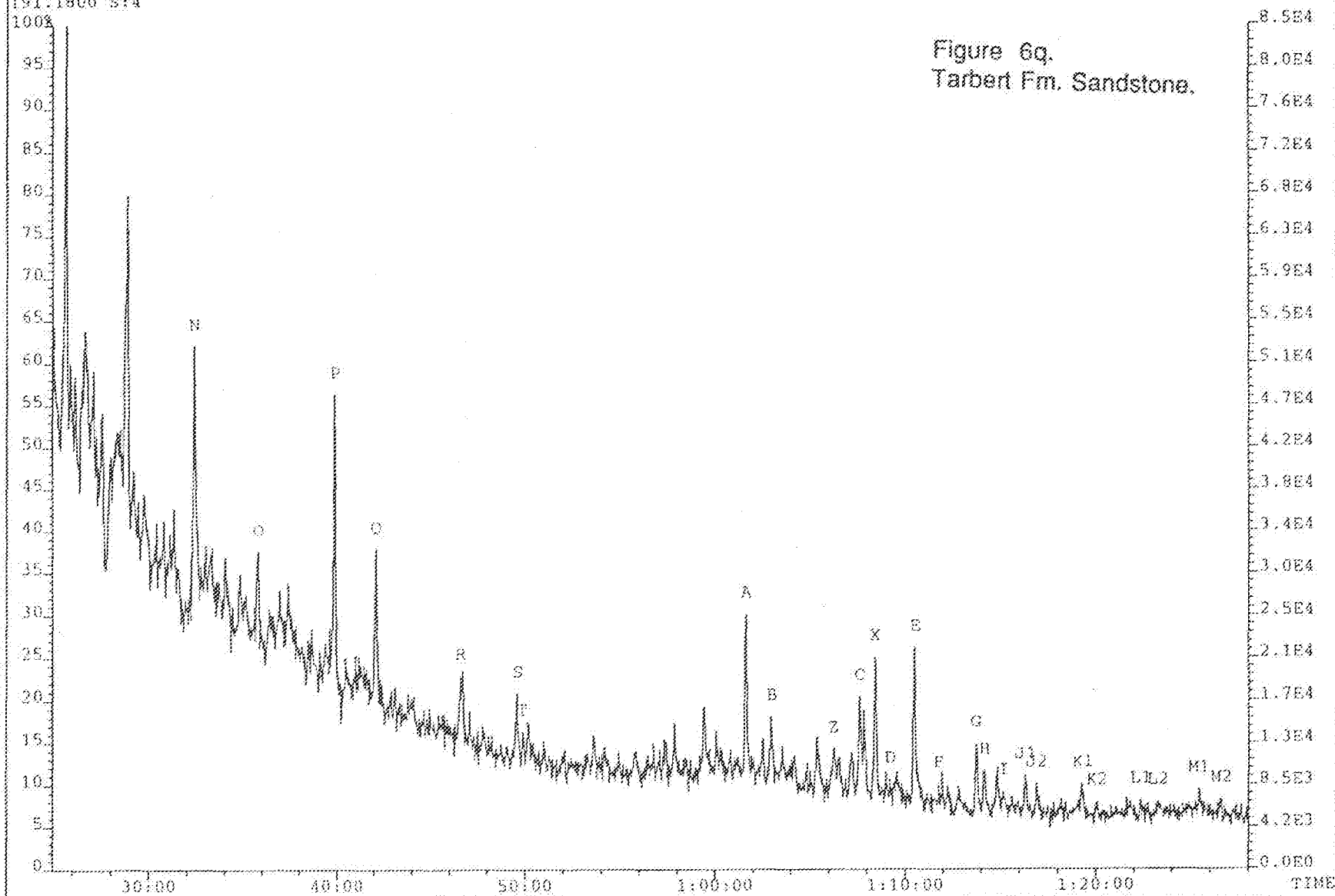
Figure 6p.



File:STATSAT3 F1-4739 Acq:13-SEP-1992 11:30:02 EI: Magnet SIR
 Sample#4 Tex:WELL 34/10-23, 4097.42M, SATURATED FRACTION
 191.1800 S:4

Exp:SAT1

Figure 6q.
 Tarbert Fm. Sandstone.



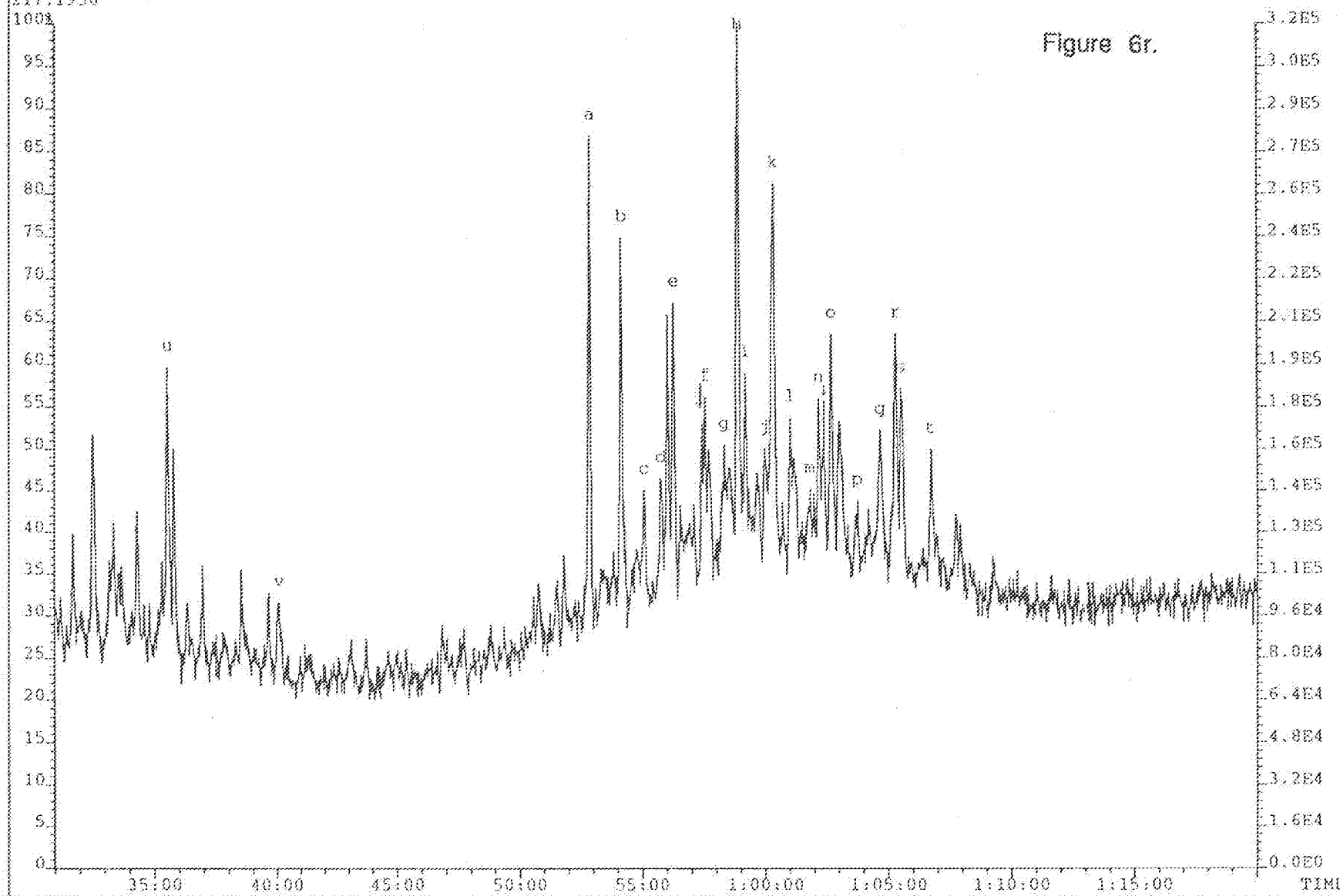
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATIST1 #1-4896 Acq: 2-DEC-92 09:49:15 EI+ Magnet SIR
 Sample#1 Text: WELL 34/10-23, DST1, SATURATED FRACTION
 217.1956

Exp: SAT1A



Schlumberger

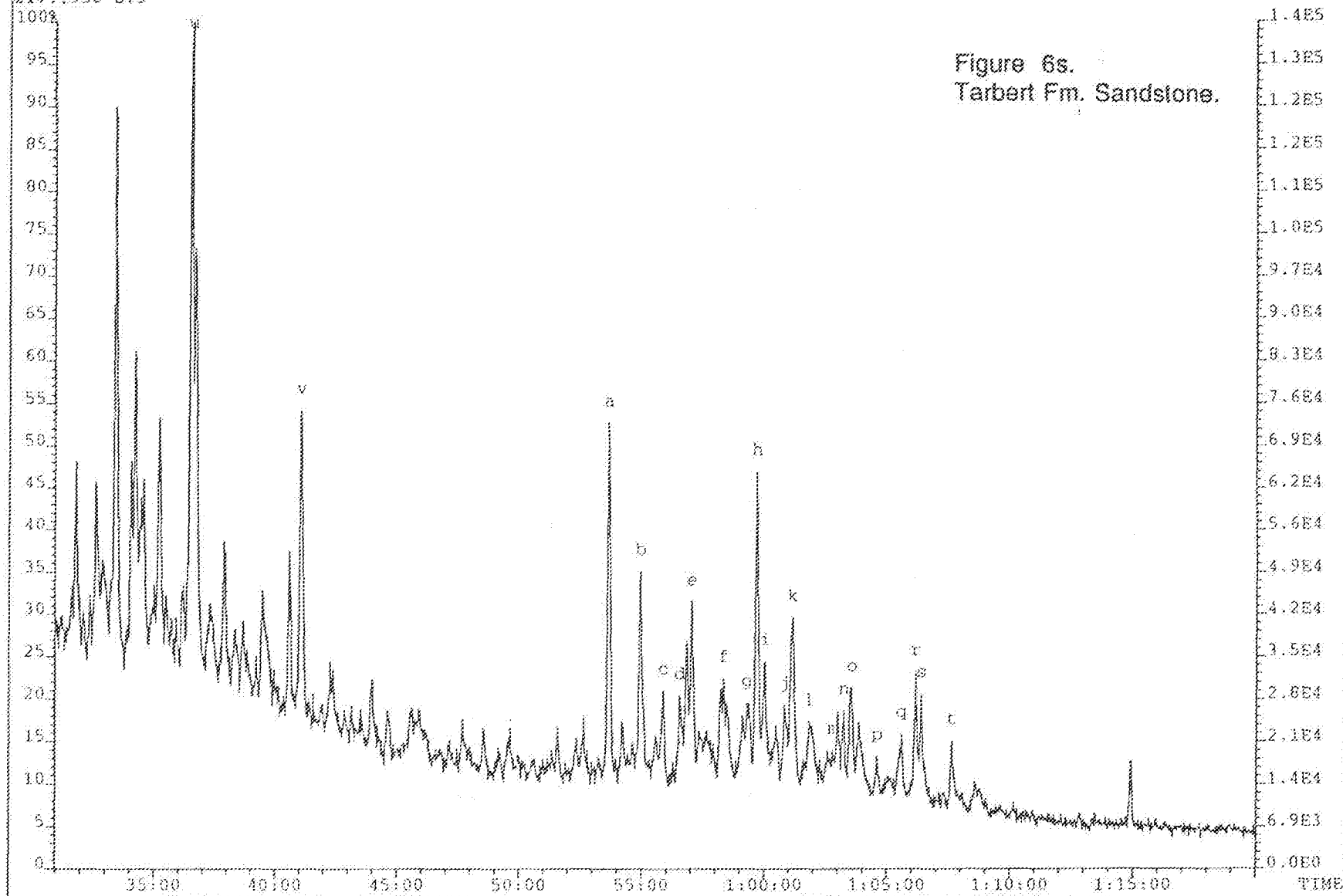
GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 FI-4739 Acq:23-SEP-1992 13:10:02 EI: Magnet SIR
 Sample#3 Text:WELL 34/10-23, 4064.91M, SATURATED FRACTION
 217.1956 S:3

Exp:SAT1

Figure 6s.
 Tarbert Fm. Sandstone.



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GECO-PRAKLA

GEOLAB NOR

INTERPRETATION LIMITS
ABBREVIATIONS
EXPERIMENTAL PROCEDURES
ANALYTICAL METHODS

Interpretation Limits

All analyses and interpretation in this report have been performed by Geolab Nor, unless specifically stated otherwise. The interpretation is based on the analytical results in this report, information supplied and quoted by the client, and general public knowledge of the area in which the well is located. The interpretation is right to the best of Geolab Nor's knowledge, but as Geolab Nor does not have access to either all geological nor geochemical information of the area of the well, Geolab Nor's interpretation must be used at the client's own risk.

The following interpretation limits have been used in this report. These limits have been established by Geolab Nor, on the basis of its experience and in conjunction with other published data and must not be regarded as absolute.

Comparison of GC-MS Maturity Parameters

Applicable only for marine type II kerogen with low terrestrial input. For definition of J1, J2, D, F, C, E, q, t, r and s, see GC-MS definitions.

Vitrinite	%	%	%	
% Ro	J1/(J1+J2)	(D+F)/(C+E)	q/(q+t)	(r+s)/(q+t+r+s)
0.5	45	25	20	0.37
0.6	60	15		
0.6-0.7			50	
0.7-0.9				0.60

Comparison of Aromatic Hydrocarbon Maturity Parameters

Vitrinite		
% Ro	MNR	4/1 MDBT
0.6		2.0
0.7	1.0	
0.8		10.0
1.3	2.0	

Source Rock Depositional Environment based on saturated HC GC - General Indicators

<u>Pristane/phytane</u>	<u>Source rock interpretation</u>
<1	Marine, hypersaline, saline lacustrine
1 - 3	Marine or lacustrine with variable land-plant input
>3	Predominant land-plant input or non-marine

<u>CPI, pre-peak oil generation</u>	<u>Source rock interpretation</u>
<1	Marine, saline lacustrine evaporites
1 - 2	Mixed marine/terrestrial source rock or freshwater/lacustrine
>2	Mainly terrestrial source rock

Source Rock Depositional Environment and Maturities based on Stable carbon Isotope Data

Most of the interpretation of stable carbon isotope data are based on cross-plotting and a visual examination of the plotted data. The interpretation limits are shown in the figures, when used.

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)
klm	= 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
silt	= 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

List of abbreviations used for parameters, ratios and analytical methods
(sorted alphabetically)

CPI	=	Carbon Preference Index, $0.5 \times \frac{C_{25}+C_{27}+C_{29}+C_{31}+C_{33}}{C_{24}+C_{26}+C_{28}+C_{30}+C_{32}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}+C_{33}}{C_{26}+C_{28}+C_{30}+C_{32}+C_{34}}$
EOM	=	Extractable Organic Matter
FID	=	Flame Ionisation Detector
FPD	=	Flame Photometric Detector
GC	=	Gas Chromatograph
GC-MS	=	Gas Chromatograph - Mass Spectrometer
GHM	=	Geofina Hydrocarbon Meter (combined thermal extraction - pyrolysis gas chromatograph)
HC	=	Hydrocarbons
HI	=	Hydrogen Index (100 x S2/TOC)
HPLC	=	High Pressure Liquid Chromatograph
MDBT(4/1)	=	Ratio of 4-/1-methyl dibenzothiophene
MNR	=	Ratio of 2-/1-methyl naphthalene
MP	=	Methyl phenanthrene
MPI1	=	Methyl phenanthrene Index, $1.5 \times (3MP+2MP) / P+9MP+1MP$
MPLC	=	Medium Pressure Liquid Chromatograph
NSO	=	Nitrogen-, Sulphur- and Oxygen-compounds
OI	=	Oxygen Index (100 x S3/TOC)
P	=	Phenanthrene
PI	=	Production Index (S1/(S1+S2))
PP	=	Petroleum Potential (S1+S2)
Ro (%)	=	Measured Vitrinite Reflectance in Percent
Rock-Eval	=	Oil show and source rock evaluation instrument
S1	=	Amount of Free Hydrocarbons, Rock-Eval
S2	=	Amount of Kerogen pyrolysate, Rock-Eval
S3	=	Amount of Oxidised Organic Material
SCI	=	Spore Colour Index (maturity indicator)
TCD	=	Thermal Conductivity Detector
TAI	=	Thermal Alteration Index (maturity indicator)
Tmax	=	Temperature of maximum pyrolysate yield, Rock-Eval
TOC	=	Total Organic Carbon

EXPERIMENTAL PROCEDURES

Gas Analysis

The gas was analysed on a Varian 3400 model gas chromatograph. A 50 m Plot fused silica column with 0.32 mm internal diameter and 5 μm $\text{Al}_2\text{O}_3/\text{KCl}$ film thickness (Chrompack Inc.) were used; nitrogen is used as carrier gas. The temperature program in the column oven is as follows; an initial temperature of 50°C, a heating rate of 8°C/min up to 200°C held for 10 mins.

The analysis is performed using a 0.5 ml loop injector and flame ionization detector. Correlation was achieved by use of external standards. Two cm^3 of gas are removed from each sample for chromatographic analysis of the C_1 to C_7 range of hydrocarbons.

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.

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.

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.

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 μ A 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 5α and 5β 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 $14\beta(H)$ $17\beta(H)$ 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

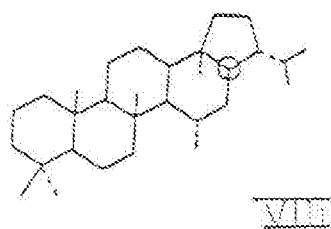
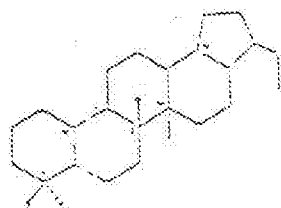
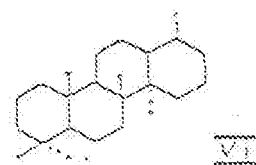
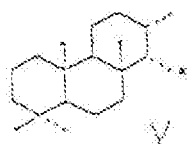
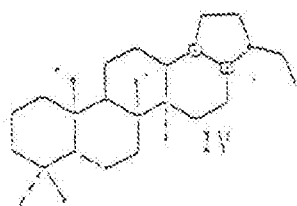
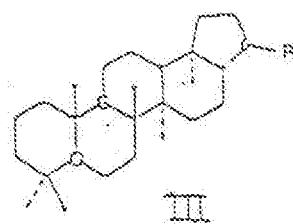
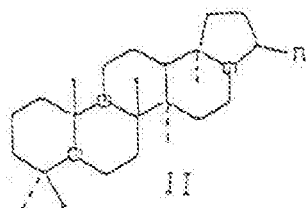
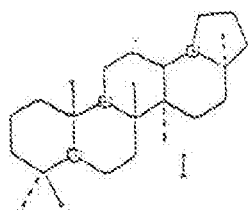
Monoaromatic steranes are detected using the M/Z 253 fragment ion, while the triaromatic steranes are detected using the M/Z 231 fragment ion.

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 ₂ H ₅)
D.	$\beta\alpha$ norhopane	C ₂₉ H ₅₀	(III, R=C ₂ H ₅)
E.	$\alpha\beta$ hopane	C ₃₀ H ₅₂	(II, R=i-C ₃ H ₇)
F.	$\beta\alpha$ hopane	C ₃₀ H ₅₂	(III, R=i-C ₃ H ₇)
G.	22S $\alpha\beta$ homohopane	C ₃₁ H ₅₄	(II, R=i-C ₄ H ₉)
H.	22R $\alpha\beta$ homohopane	C ₃₁ H ₅₄	(II, R=i-C ₄ H ₉)
I.	$\beta\alpha$ homohopane	C ₃₁ H ₅₄	(III, R=i-C ₄ H ₉)
J.	22S $\alpha\beta$ bishomohopane	C ₃₂ H ₅₆	(II, R=i-C ₅ H ₁₁)
	22R $\alpha\beta$ bishomohopane	C ₃₂ H ₅₆	(II, R=i-C ₅ H ₁₁)
K.	22S $\alpha\beta$ trishomohopane	C ₃₃ H ₅₈	(II, R=i-C ₆ H ₁₃)
	22R $\alpha\beta$ trishomohopane	C ₃₃ H ₅₈	(II, R=i-C ₆ H ₁₃)
L.	22S $\alpha\beta$ tetrakishomohopane	C ₃₄ H ₆₀	(II, R=i-C ₇ H ₁₅)
	22E $\alpha\beta$ tetrakishomohopane	C ₃₄ H ₆₀	(II, R=i-C ₇ H ₁₅)
M.	22S $\alpha\beta$ pentakishomohopane	C ₃₅ H ₆₂	(II, R=i-C ₈ H ₁₇)
	22E $\alpha\beta$ pentakishomohopane	C ₃₅ H ₆₂	(II, R=i-C ₈ H ₁₇)
P.	Tricyclic terpane	C ₂₃ H ₄₂	(V, R=i-C ₄ H ₉)
Q.	Tricyclic terpane	C ₂₄ H ₄₄	(V, R=i-C ₅ H ₁₁)
R.	Tricyclic terpane (17R, 17S)	C ₂₅ H ₄₆	(V, R=i-C ₆ H ₁₃)
S.	Tetracyclic terpane	C ₂₄ H ₄₂	(VI)
T.	Tricyclic terpane (17R, 17S)	C ₂₆ H ₄₈	(V, R=i-C ₇ H ₁₅)
N.	Tricyclic terpane	C ₂₁ H ₃₈	(V, R=C ₂ H ₅)
O.	Tricyclic terpane	C ₂₂ H ₄₀	(V, R=C ₃ H ₇)
Y.	25,28,30-trisnorhopane/moretane	C ₂₇ H ₄₆	(VII)
X.	$\alpha\beta$ diahopane	C ₃₀ H ₅₂	(VIII)

STRUCTURES REPRESENTING TERPANES



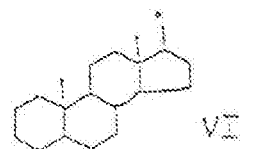
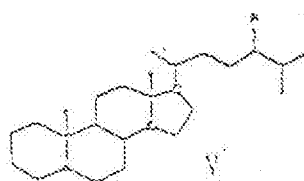
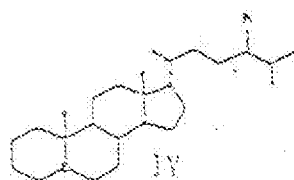
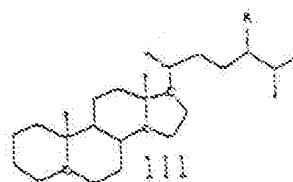
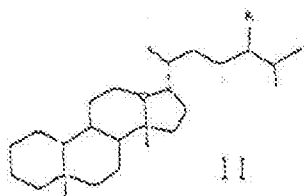
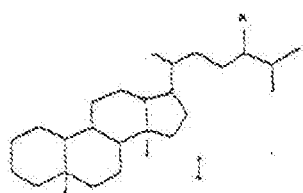
Mass Fragmentograms representing Steranes

(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



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 1a: Lithology description for well NOCS 34/10-35

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
2500.00		Shet		U. Cretaceous		0038
		90 Sh/Clst:	m gy, calc			0038-1L
		5 S/Sst	: gy w to lt gy, slt, f			0038-2L
		5 Cont	: prp			0038-3L
		tr Marl	: lt or gy			0038-4L
2600.00		Shet		U. Cretaceous		0039
		95 Sh/Clst:	m gy, calc			0039-1L
		5 Sh/Clst:	pl brn			0039-3L
		tr Cont	: prp			0039-2L
2700.00		Shet		U. Cretaceous		0040
		60 Sh/Clst:	m gy			0040-1L
		25 Sltst	: lt gy to m gy			0040-4L
		5 Cont	: prp			0040-2L
		5 Sh/Clst:	pl brn			0040-3L
		5 S/Sst	: gy w to lt gy, f, crs, l			0040-5L
2800.00		Shet		U. Cretaceous		0041
		70 Sh/Clst:	m gy			0041-1L
		25 Sltst	: lt gy to m gy			0041-4L
		5 Ca	: lt or gy			0041-5L
		tr Cont	: prp			0041-2L
		tr Sh/Clst:	pl brn			0041-3L
2900.00		Shet		U. Cretaceous		0042
		70 Sh/Clst:	m gy			0042-1L
		20 Sltst	: lt gy to m gy			0042-4L
		5 Cont	: prp			0042-2L
		5 Ca	: lt or gy			0042-5L
		tr Sh/Clst:	pl brn			0042-3L

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Table 1a: Lithology description for well NOCS 34/10-35

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3000.00			Shet	U. Cretaceous		0043
			80	Sh/Clst: m gy, slt		0043-1L
			10	Cont : prp		0043-2L
			10	Sltst : lt gy to m gy		0043-4L
			tr	Sh/Clst: pl brn		0043-3L
			tr	Ca : w to lt or gy, fos		0043-5L
3100.00			Shet	U. Cretaceous		0044
			75	Sh/Clst: lt gy to m gy, calc, slt		0044-1L
			15	Cont : prp, fib		0044-2L
			5	Sltst : lt gy		0044-3L
			5	Ca : w to lt or gy, fos		0044-4L
3200.00			Shet	U. Cretaceous		0045
			80	Sh/Clst: lt gy to m gy, calc, slt		0045-1L
			10	Cont : prp, fib		0045-2L
			5	Sltst : lt gy		0045-3L
			5	Sh/Clst: m brn to pl brn		0045-5L
			tr	Ca : w to lt or gy, fos		0045-4L
3300.00			Shet	U. Cretaceous		0046
			50	Sh/Clst: lt gy to m gy, calc, slt		0046-1L
			30	Ca : w to lt or gy, mrl		0046-4L
			20	Cont : prp, fib		0046-2L
			tr	Sltst : lt gy		0046-3L
			tr	Sh/Clst: m brn to pl brn		0046-5L
3400.00			Shet	U. Cretaceous		0047
			80	Sh/Clst: lt gy to m gy, calc		0047-1L
			15	Cont : prp, fib		0047-2L
			5	Ca : w to lt or gy, mrl		0047-3L
			tr	Sh/Clst: m brn to pl brn		0047-4L

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Table 1a: Lithology description for well NOCS 34/10-35

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3498.00		Shet		U. Cretaceous		0048
		95	Sh/Clst:	lt gy to m gy, calc		0048-1L
		5	Cont	: prp		0048-2L
3530.00		Shet		U. Cretaceous		0049
	0.87	85	Marl	: y gy to lt gy, hd		0049-1L
		10	Sh/Clst:	m gy		0049-2L
		5	Cont	: prp		0049-3L
3620.00		Shet		U. Cretaceous		0050
	0.53	60	Sh/Clst:	m gy		0050-1L
		35	sltst	: gy w to lt gy, s, l, glauc		0050-2L
		5	Cont	: prp		0050-3L
3700.00		Crom		L. Cretaceous		0051
		70	Sh/Clst:	m gy to drk gy		0051-1L
		30	Cont	: prp, dd		0051-2L
3792.00		Viki Drau		U. Jurassic		0052
		100	Cont	: prp		0052-1L
		tr	Sh/Clst:	lt gy to m gy		0052-2L
		tr	Marl	: lt or gy		0052-3L
3792.90 swc		Viki Drau		U. Jurassic		0033
	2.80	100	Sh/Clst:	brn blk		0033-1L

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Table 1a: Lithology description for well NOCS 34/10-35

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3831.00				Viki Drau U. Jurassic		0053
			100	Cont : prp, bar		0053-1L
			tr	Sh/Clst: m gy to drk gy		0053-2L
3832.50	swc			Viki Drau U. Jurassic		0034
	4.71	100		Sh/Clst: drk gy to brn blk		0034-1L
3852.00				Viki Drau U. Jurassic		0054
			70	Sh/Clst: drk gy to brn blk		0054-2L
			30	Cont : prp		0054-1L
			tr	Marl : w to lt or gy		0054-3L
3852.50	swc			Viki Drau U. Jurassic		0035
	6.71	100		Sh/Clst: drk gy to brn blk		0035-1L
3867.00				Viki Drau U. Jurassic		0055
			70	Cont : prp		0055-1L
	5.53		30	Sh/Clst: drk gy to brn blk		0055-2L
			tr	Marl : w to lt or gy		0055-3L
3882.00				Viki Heat U. Jurassic		0056
			85	Cont : prp, bar		0056-1L
			15	Sh/Clst: drk gy to brn blk		0056-2L
3882.50	swc			Viki Heat U. Jurassic		0036
	1.15	100		Sh/Clst: dsk brn to dsk y brn		0036-1L

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Table 1a: Lithology description for well NOCS 34/10-35

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3885.00			Viki Heat U. Jurassic			0057
	3.62	50	Sh/Clst: m gy to drk gy			0057-2L
		40	Cont : prp, bar			0057-1L
		10	Marl : or gy to lt gy			0057-3L
3891.00			Viki Heat U. Jurassic			0058
		100	Cont : prp, bar			0058-1L
	2.88	tr	Sh/Clst: m gy to drk gy			0058-2L
3894.00			Viki Heat U. Jurassic			0059
		60	Cont : prp, bar			0059-1L
		40	Sh/Clst: m gy to drk gy			0059-2L
		tr	Marl : lt or gy			0059-3L
3894.50 swc			Viki Heat U. Jurassic			0037
	2.12	100	Sh/Clst: dsk brn to dsk y brn			0037-1L
3931.71 ccp			Brnt Ness M. Jurassic			0019
		100	S/Sst : pl y brn, f, mic, hd			0019-1L
3933.16 ccp			Brnt Ness M. Jurassic			0020
		100	S/Sst : gy w to pl y brn, f, slt, hd			0020-1L
3939.36 ccp			Brnt Ness M. Jurassic			0021
		100	S/Sst : lt or gy to pl y brn, f, slt, hd			0021-1L

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Table 1a: Lithology description for well NOCS 34/10-35

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3993.79	ccp			Dunl Cook L. Jurassic		0022
		100	S/Sst	: gy w to lt brn gy to brn gy, crs, hd		0022-1L
3994.05	ccp			Dunl Cook L. Jurassic		0023
		100	S/Sst	: gy w to lt brn gy to brn gy, crs, hd		0023-1L
3998.74	ccp			Dunl Cook L. Jurassic		0024
		100	S/Sst	: gy w to lt brn gy to brn gy, crs, f, hd		0024-1L
4006.17	ccp			Dunl Cook L. Jurassic		0025
		100	S/Sst	: gy w to brn gy to dsk brn, crs, f, cly, hd		0025-1L
4021.93	ccp			Dunl Cook L. Jurassic		0026
		50	S/Sst	: lt gy to lt brn gy, f, mic, hd, lam		0026-1L
	1.33	50	Sh/Clst	: brn gy, mic, lam		0026-2L
4063.54	ccp			Dunl Burt L. Jurassic		0027
	0.99	100	Sltst	: m gy to lt brn gy to brn gy, cly, hd		0027-1L

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Table 1a: Lithology description for well NOCS 34/10-35

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
4110.00			Brnt	Burt M.	Jurassic	0060
		70	Cont	: prp		0060-1L
	1.59	30	Sh/Clst:	lt gy to m gy to drk gy		0060-2L
4257.47	ccp		Stat	L.	Jurassic	0028
		100	S/Sst	: lt gy w to lt brn gy, crs		0028-1L
4263.52	ccp		Stat	L.	Jurassic	0029
		100	S/Sst	: lt gy w to lt brn gy, crs, hd		0029-1L
4270.75	ccp		Stat	L.	Jurassic	0031
		100	S/Sst	: lt gy w to lt gy, crs, engl		0031-1L
4277.89	ccp		Stat	L.	Jurassic	0030
		100	S/Sst	: lt gy w to lt gy to lt brn gy, crs, engl, hd		0030-1L
		tr	Coal	: blk, wx		0030-2L
4283.48	ccp		Stat	L.	Jurassic	0032
		100	S/Sst	: lt gy w to lt gy, crs, engl		0032-1L

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Table 1b: Lithology description for well NOCS 34/10-23

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
4084.91	ccp			0358
		100 S/Sst : lt gy to lt brn gy, f, hd		0358-1L
4097.42	ccp			0359
		100 S/Sst : lt gy to brn gy to pl brn, f, hd		0359-1L

Table 2a: Rock-Eval table for well NOCS 34/10-35

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Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2500.00	cut	Sh/Clst: m gy	0.12	0.23	0.61	0.38	—	—	—	0.3	0.34	419	0038-1L
2600.00	cut	Sh/Clst: m gy	0.04	0.26	0.47	0.55	—	—	—	0.3	0.13	411	0039-1L
2700.00	cut	Sh/Clst: m gy	0.19	0.30	0.33	0.91	—	—	—	0.5	0.39	422	0040-1L
2800.00	cut	Sh/Clst: m gy	0.16	0.28	0.29	0.97	—	—	—	0.4	0.36	415	0041-1L
2900.00	cut	Sh/Clst: m gy	0.16	0.35	0.38	0.92	—	—	—	0.5	0.31	421	0042-1L
3000.00	cut	Sh/Clst: m gy	0.12	0.35	0.33	1.06	—	—	—	0.5	0.26	426	0043-1L
3100.00	cut	Sh/Clst: lt gy to m gy	0.11	0.32	0.46	0.70	—	—	—	0.4	0.26	400	0044-1L
3200.00	cut	Sh/Clst: lt gy to m gy	0.07	0.28	0.39	0.72	—	—	—	0.3	0.20	426	0045-1L
3300.00	cut	Sh/Clst: lt gy to m gy	0.22	0.41	0.78	0.53	—	—	—	0.6	0.35	429	0046-1L
3400.00	cut	Sh/Clst: lt gy to m gy	0.14	0.34	0.51	0.67	—	—	—	0.5	0.29	427	0047-1L
3498.00	cut	Sh/Clst: lt gy to m gy	0.95	0.46	0.36	1.28	—	—	—	1.4	0.67	431	0048-1L
3530.00	cut	Marl : y gy to lt gy	4.54	1.46	0.42	3.48	0.87	168	48	6.0	0.76	401	0049-1L
3620.00	cut	Sh/Clst: m gy	0.26	0.20	0.16	1.25	0.53	38	30	0.5	0.57	405	0050-1L
3700.00	cut	Sh/Clst: m gy to drk gy	0.14	0.17	0.19	0.89	—	—	—	0.3	0.45	424	0051-1L
3792.90	swc	Sh/Clst: brn blk	2.44	4.32	0.20	21.60	2.80	154	7	6.8	0.36	443	0033-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3831.00	cut	Sh/Clst: m gy to drk gy	2.17	4.71	0.21	22.43	-	-	-	6.9	0.32	442	0053-2L
3832.50	swc	Sh/Clst: drk gy to brn blk	4.46	5.55	0.54	10.28	4.71	118	11	10.0	0.45	436	0034-1L
3852.00	cut	Sh/Clst: drk gy to brn blk	6.59	15.76	0.68	23.18	-	-	-	22.4	0.29	444	0054-2L
3852.50	swc	Sh/Clst: drk gy to brn blk	5.62	8.44	0.46	18.35	6.71	126	7	14.1	0.40	437	0035-1L
3867.00	cut	Sh/Clst: drk gy to brn blk	5.73	7.95	0.89	8.93	5.53	144	16	13.7	0.42	439	0055-2L
3882.00	cut	Sh/Clst: drk gy to brn blk	3.39	9.16	0.89	10.29	-	-	-	12.6	0.27	445	0056-2L
3882.50	swc	Sh/Clst: dsk brn to dsk y brn	0.56	0.62	0.50	1.24	1.15	54	43	1.2	0.47	443	0036-1L
3885.00	cut	Sh/Clst: m gy to drk gy	3.28	8.85	0.34	26.03	3.62	244	9	12.1	0.27	444	0057-2L
3891.00	cut	Sh/Clst: m gy to drk gy	1.92	5.05	0.44	11.48	2.88	175	15	7.0	0.28	443	0058-2L
3894.00	cut	Sh/Clst: m gy to drk gy	1.97	4.87	0.53	9.19	-	-	-	6.8	0.29	446	0059-2L
3894.50	swc	Sh/Clst: dsk brn to dsk y brn	0.82	1.95	0.48	4.06	2.12	92	23	2.8	0.30	444	0037-1L
3931.71	ccp	S/Sst : pl y brn	0.56	0.19	0.55	0.35	-	-	-	0.8	0.75	430	0019-1L
3933.16	ccp	S/Sst : gy w to pl y brn	0.80	0.81	0.58	1.40	-	-	-	1.6	0.50	449	0020-1L
3939.36	ccp	S/Sst : lt or gy to pl y brn	0.62	0.38	0.60	0.63	-	-	-	1.0	0.62	424	0021-1L
3993.79	ccp	S/Sst : gy w to lt brn gy to brn gy	0.69	0.13	0.33	0.39	-	-	-	0.8	0.84	404	0022-1L

Table 2a: Rock-Eval table for well NOCS 34/10-35

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Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3994.05	ccp	S/Sst : gy w to lt brn gy to brn gy	1.33	0.32	0.33	0.97	-	-	-	1.7	0.81	412	0023-1L
3998.74	ccp	S/Sst : gy w to lt brn gy to brn gy	0.99	1.77	0.20	8.85	-	-	-	2.8	0.36	443	0024-1L
4006.17	ccp	S/Sst : gy w to brn gy to dsk brn	0.69	0.40	0.25	1.60	-	-	-	1.1	0.63	437	0025-1L
4021.93	ccp	Sh/Clst: brn gy	0.53	1.95	0.22	8.86	1.33	147	17	2.5	0.21	449	0026-2L
4063.54	ccp	Sltst : m gy to lt brn gy to brn gy	0.41	0.82	0.36	2.28	0.99	83	36	1.2	0.33	455	0027-1L
4110.00	cut	Sh/Clst: lt gy to m gy to drk gy	0.76	1.78	0.35	5.09	1.59	112	22	2.5	0.30	449	0060-2L
4257.47	ccp	S/Sst : lt gy w to lt brn gy	0.09	0.04	0.21	0.19	-	-	-	0.1	0.69	405	0028-1L
4263.52	ccp	S/Sst : lt gy w to lt brn gy	0.06	0.12	0.15	0.80	-	-	-	0.2	0.33	397	0029-1L
4270.75	ccp	S/Sst : lt gy w to lt gy	0.05	0.07	0.13	0.54	-	-	-	0.1	0.42	375	0031-1L
4277.89	ccp	S/Sst : lt gy w to lt gy to lt brn gy	0.07	0.18	0.10	1.80	-	-	-	0.3	0.28	410	0030-1L
4283.48	ccp	S/Sst : lt gy w to lt gy	0.07	0.40	0.04	10.00	-	-	-	0.5	0.15	396	0032-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4084.91	ccp	S/Sst : lt gy to lt brn gy	0.37	0.26	0.18	1.44	-	-	-	0.6	0.59	436	0358-1L
4097.42	ccp	S/Sst : lt gy to brn gy to pl brn	0.35	0.61	0.17	3.59	-	-	-	1.0	0.36	448	0359-1L

Table 3a: WEIGHT AND API GRAVITY FOR WELL NOCS 34/10-35

Oil		Whole Oil (g)	Light (g)	Topped (g)	API
34/10-35	DST 1	1.8473	0.5287	1.3186	43.58
35/10-35	DST 2	1.2722	0.3901	0.8821	43.11
34/10-35	DST 3	1.5988	0.3554	1.2434	43.52

Table 3b: WEIGHT AND API GRAVITY FOR WELL NOCS 34/10-23

Oil		Whole Oil (g)	Light (g)	Topped (g)	API
34/10-23	DST 1	1.8417	0.3071	1.5346	39.52

Table 4a: Gaseous Hydrocarbons Data from Nocs 34/10-35

Sample: DST 1

Compound	Area	Time
Methane	14783620	1.82
Ethane	1868262	2.11
Propane	977404	3.13
Isobutane	180598	5.71
Butane	302987	6.10
Neopentane	2392	9.41
Cyclopentane	4150	10.08
2-Methylbutane	104026	10.12
Pentane	93321	10.62
2,2-Dimethylbutane	2470	14.22
Cyclohexane	12723	14.30
Methylcyclopentane	15736	14.56
2-Methylpentane	23588	14.73
3-Methylpentane	13185	14.85
Hexane	28183	15.32
Methylcyclohexane	9221	18.78
2-Methylhexane	6648	19.17
Heptane	5169	19.78
Benzene	6257	20.73

Table 4a: Gaseous Hydrocarbons Data from Nocs 34/10-35

Sample: DST 2

Compound	Area	Time
Methane	18515302	1.82
Ethane	2142473	2.11
Propane	1105914	3.13
Isobutane	193855	5.73
Butane	315115	6.13
Neopentane	2167	9.47
Cyclopentane	4208	10.15
2-Methylbutane	83381	10.20
Pentane	75102	10.70
2,2-Dimethylbutane	2191	14.30
Cyclohexane	16502	14.37
Methylcyclopentane	20534	14.63
2-Methylpentane	27959	14.81
3-Methylpentane	17216	14.93
Hexane	36411	15.41
Methylcyclohexane	16622	18.90
2-Methylhexane	8086	19.34
Heptane	9104	19.96
Benzene	7581	20.95

Table4a: Gaseous Hydrocarbons Data from Nocs 34/10-35

Sample: DST 3

Compound	Area	Time
Methane	7219672	1.85
Ethane	1105653	2.14
Propane	657756	3.17
Isobutane	117250	5.76
Butane	225121	6.15
Neopentane	1197	9.46
Cyclopentane	3285	10.14
2-Methylbutane	69681	10.20
Pentane	70915	10.68
2,2-Dimethylbutane	1364	14.29
Cyclohexane	9156	14.36
Methylcyclopentane	12243	14.62
2-Methylpentane	17708	14.80
3-Methylpentane	9608	14.92
Hexane	22531	15.38
Methylcyclohexane	8165	18.86
2-Methylhexane	4786	19.26
Heptane	4060	19.87
Benzene	5851	20.82

Table4b: Gaseous Hydrocarbons Data from Nocs 34/10-23

Sample: DST 1

Compound	Area	Time
Methane	16859146	1.82
Ethane	1742552	2.11
Propane	776362	3.14
Isobutane	148798	5.72
Butane	239272	6.11
Neopentane	2433	9.40
Cyclopentane	4576	10.08
2-Methylbutane	97101	10.12
Pentane	93300	10.62
2,2-Dimethylbutane	3853	14.19
Cyclohexane	16917	14.27
Methylcyclopentane	28109	14.51
2-Methylpentane	29923	14.71
3-Methylpentane	18942	14.82
Hexane	42023	15.30
Methylcyclohexane	20634	18.74
2-Methylhexane	13091	19.14
Heptane	12363	19.75
Benzene	15969	20.69

Table 5a: Isotope GC Analysis of Headspace Gas for well 34/10-35.

Sample	n-C1	n-C2	n-C3	i-C4	n-C4
DST 1	-39.4	-27.8	-27.2	-26.1	-25.5
DST 2	-38.1	-29.0	-26.2	-26.4	-25.1
DST 3	-40.9	-29.9	-26.7	-26.4	-25.6

Table 5b: Isotope GC Analysis of DST Gas for well 34/10-23.

Sample	n-C1	n-C2	n-C3	i-C4	n-C4
DST 1	-37.7	-28.9	-24.8	-23.7	-22.9

Table 6 a: Weight of EOM and Chromatographic Fraction for well NOCS 34/10-35

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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
3504.00	oil	bulk	-	81.6	63.5	13.7	2.9	1.5	77.2	4.4	-	0061-0B
3530.00	cut	Marl : y gy to lt gy	10.0	51.4	29.0	13.0	4.1	5.3	42.0	9.4	0.66	0049-1L
3831.00	cut	Sh/Clst: m gy to drk gy	5.9	28.1	11.9	7.7	4.6	3.9	19.6	8.5	2.61	0053-2L
3852.00	cut	Sh/Clst: drk gy to brn blk	9.9	44.5	18.3	12.3	5.8	8.1	30.6	13.9	6.63	0054-2L
3885.00	cut	Sh/Clst: m gy to drk gy	9.8	65.2	25.4	17.2	11.2	11.4	42.6	22.6	3.54	0057-2L
3894.00	cut	Sh/Clst: m gy to drk gy	9.3	44.6	17.8	8.5	10.0	8.3	26.3	18.3	2.98	0059-2L
3929.00	oil	bulk	-	67.8	52.7	10.7	3.8	0.6	63.4	4.4	-	0062-0B
3931.71	ccp	S/Sst : pl y brn	9.3	11.2	6.1	1.7	1.7	1.7	7.8	3.4	0.28	0019-1L
3933.16	ccp	S/Sst : gy w to pl y brn	8.2	19.3	6.6	3.5	7.0	2.2	10.1	9.2	1.35	0020-1L
3994.05	ccp	S/Sst : gy w to lt brn gy to brn gy	8.3	17.4	8.9	1.8	4.7	2.0	10.7	6.7	0.42	0023-1L
3995.00	oil	bulk	-	72.1	58.7	10.7	1.8	0.9	69.4	2.7	-	0063-0B
4006.17	ccp	S/Sst : gy w to brn gy to dsk brn	9.5	9.2	5.5	1.6	0.9	1.2	7.1	2.1	0.40	0025-1L
4021.93	ccp	Sh/Clst: brn gy	8.8	13.6	5.5	2.9	3.2	2.0	8.4	5.2	1.43	0026-2L

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
4025.00	oil	bulk	—	59.7	53.6	3.8	1.4	0.9	57.4	2.3	—	0064-0B
4257.47	ccp	S/Sst : lt gy w to lt brn gy	8.2	1.8	0.3	0.2	0.4	0.9	0.5	1.3	0.15	0028-1L
4270.75	ccp	S/Sst : lt gy w to lt gy	9.3	3.9	0.3	0.2	0.7	2.7	0.5	3.4	0.23	0031-1L
4283.48	ccp	S/Sst : lt gy w to lt gy	8.4	2.6	0.3	0.2	0.9	1.2	0.5	2.1	0.15	0032-1L

Table 6 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 34/10-35

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3504.00	oil	bulk	-	-	-	-	-	-	-	0061-0B
3530.00	cut Marl	: y gy to lt gy	5155	2908	1303	411	531	4212	942	0049-1L
3831.00	cut Sh/Clst:	m gy to drk gy	4730	2003	1296	774	656	3299	1430	0053-2L
3852.00	cut Sh/Clst:	drk gy to brn blk	4504	1852	1244	587	819	3097	1406	0054-2L
3885.00	cut Sh/Clst:	m gy to drk gy	6632	2583	1749	1139	1159	4333	2299	0057-2L
3894.00	cut Sh/Clst:	m gy to drk gy	4775	1905	910	1070	888	2815	1959	0059-2L
3929.00	oil	bulk	-	-	-	-	-	-	-	0062-0B
3931.71	ccp S/Sst	: pl y brn	1206	657	183	183	183	840	366	0019-1L
3933.16	ccp S/Sst	: gy w to pl y brn	2345	801	425	850	267	1227	1117	0020-1L
3994.05	ccp S/Sst	: gy w to lt brn gy to brn gy	2103	1076	217	568	241	1293	810	0023-1L
3995.00	oil	bulk	-	-	-	-	-	-	-	0063-0B
4006.17	ccp S/Sst	: gy w to brn gy to dsk brn	972	581	169	95	126	750	221	0025-1L
4021.93	ccp Sh/Clst:	brn gy	1548	626	330	364	227	956	592	0026-2L

Table 6 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 34/10-35

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4025.00	oil	bulk	-	-	-	-	-	-	-	0064-0B
4257.47	ccp	S/Sst : lt gy w to lt brn gy	220	36	24	48	110	61	158	0028-1L
4270.75	ccp	S/Sst : lt gy w to lt gy	421	32	21	75	291	53	367	0031-1L
4283.48	ccp	S/Sst : lt gy w to lt gy	309	35	23	107	143	59	250	0032-1L

Table 6 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 34/10-35

Page: 1

Depth unit of measure: m

Depth	Typ Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3504.00	oil bulk	-	-	-	-	-	-	-	0061-0B
3530.00	cut Marl : y gy to lt gy	781.13	440.72	197.56	62.31	80.54	638.28	142.85	0049-1L
3831.00	cut Sh/Clst: m gy to drk gy	181.25	76.76	49.67	29.67	25.16	126.42	54.83	0053-2L
3852.00	cut Sh/Clst: drk gy to brn blk	67.93	27.94	18.78	8.85	12.37	46.71	21.22	0054-2L
3885.00	cut Sh/Clst: m gy to drk gy	187.37	72.99	49.43	32.19	32.76	122.42	64.95	0057-2L
3894.00	cut Sh/Clst: m gy to drk gy	160.24	63.95	30.54	35.93	29.82	94.49	65.75	0059-2L
3929.00	oil bulk	-	-	-	-	-	-	-	0062-0B
3931.71	ccp S/Sst : pl y brn	431.03	234.76	65.42	65.42	65.42	300.18	130.85	0019-1L
3933.16	ccp S/Sst : gy w to pl y brn	173.71	59.40	31.50	63.00	19.80	90.91	82.80	0020-1L
3994.05	ccp S/Sst : gy w to lt brn gy to brn gy	500.95	256.23	51.82	135.31	57.58	308.06	192.89	0023-1L
3995.00	oil bulk	-	-	-	-	-	-	-	0063-0B
4006.17	ccp S/Sst : gy w to brn gy to dsk brn	243.13	145.35	42.28	23.78	31.71	187.63	55.50	0025-1L
4021.93	ccp Sh/Clst: brn gy	108.32	43.81	23.10	25.49	15.93	66.90	41.42	0026-2L

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4025.00	oil	bulk	-	-	-	-	-	-	-	0064-0B
4257.47	ccp	S/Sst : lt gy w to lt brn gy	146.70	24.45	16.30	32.60	73.35	40.75	105.95	0028-1L
4270.75	ccp	S/Sst : lt gy w to lt gy	183.12	14.09	9.39	32.87	126.77	23.48	159.64	0031-1L
4283.48	ccp	S/Sst : lt gy w to lt gy	206.60	23.84	15.89	71.51	95.35	39.73	166.87	0032-1L

Table 6 d : Composition of material extracted from the rock (%) for well NOCS 34/10-35

Page: 1

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
3504.00	oil	bulk	77.82	16.79	3.55	1.84	94.61	5.39	463.50	1754.54	0061-0B
3530.00	cut Marl	: y gy to lt gy	56.42	25.29	7.98	10.31	81.71	18.29	223.08	446.81	0049-1L
3831.00	cut Sh/Clst:	m gy to drk gy	42.35	27.40	16.37	13.88	69.75	30.25	154.55	230.59	0053-2L
3852.00	cut Sh/Clst:	drk gy to brn blk	41.12	27.64	13.03	18.20	68.76	31.24	148.78	220.14	0054-2L
3885.00	cut Sh/Clst:	m gy to drk gy	38.96	26.38	17.18	17.48	65.34	34.66	147.67	188.50	0057-2L
3894.00	cut Sh/Clst:	m gy to drk gy	39.91	19.06	22.42	18.61	58.97	41.03	209.41	143.72	0059-2L
3929.00	oil	bulk	77.73	15.78	5.60	0.88	93.51	6.49	492.52	1440.91	0062-0B
3931.71	ccp S/Sst	: pl y brn	54.46	15.18	15.18	15.18	69.64	30.36	358.82	229.41	0019-1L
3933.16	ccp S/Sst	: gy w to pl y brn	34.20	18.13	36.27	11.40	52.33	47.67	188.57	109.78	0020-1L
3994.05	ccp S/Sst	: gy w to lt brn gy to brn gy	51.15	10.34	27.01	11.49	61.49	38.51	494.44	159.70	0023-1L
3995.00	oil	bulk	81.41	14.84	2.50	1.25	96.26	3.74	548.60	2570.37	0063-0B
4006.17	ccp S/Sst	: gy w to brn gy to dsk brn	59.78	17.39	9.78	13.04	77.17	22.83	343.75	338.10	0025-1L
4021.93	ccp Sh/Clst:	brn gy	40.44	21.32	23.53	14.71	61.76	38.24	189.66	161.54	0026-2L

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	
4025.00	oil	bulk	89.78	6.37	2.35	1.51	96.15	3.85	1410.53	2495.65	0064-0B
4257.47	ccp	S/Sst : lt gy w to lt brn gy	16.67	11.11	22.22	50.00	27.78	72.22	150.00	38.46	0028-1L
4270.75	ccp	S/Sst : lt gy w to lt gy	7.69	5.13	17.95	69.23	12.82	87.18	150.00	14.71	0031-1L
4283.48	ccp	S/Sst : lt gy w to lt gy	11.54	7.69	34.62	46.15	19.23	80.77	150.00	23.81	0032-1L

Table 6e: GC of Whole Oil for STATOIL WELL A (% of C2 - C9)

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Well	Description	iC4	nC4	iC5	nC5	2,3DMC4	CyC5	2,3DMC4 /CyC5	2MC5	3MC5	nC6	Sample
NOCS 34/10-35	DST 3	0.38	1.48	2.26	3.57	-	-	0.91	2.71	1.70	5.65	H47/0062
NOCS 34/10-35	DST 2	0.46	1.50	2.26	3.27	-	-	0.90	2.57	1.70	5.41	H47/0063
NOCS 34/10-35	DST 1	0.58	1.80	2.41	3.50	-	-	0.91	2.62	1.62	5.11	H47/0064

Well	Description	MCyC5	Benz	CyC6	2MC6	3MC6	1,3ciDMCyC5	1,3trDMCyC6	1,2trDMCyC5	Sample
NOCS 34/10-35	DST 3	3.14	7.09	4.00	2.84	2.31	0.82	0.77	1.51	H47/0062
NOCS 34/10-35	DST 2	3.06	6.13	5.17	2.88	2.32	0.83	0.77	1.65	H47/0063
NOCS 34/10-35	DST 1	3.10	6.22	4.86	2.87	2.20	0.82	0.77	1.42	H47/0064

Well	Description	nC7	MCyC6	Tol	2MC7	3MC7+1,2 3MCyC5	nC8	1-cis-2 n-PrCyC5	DMCyC6	1,1,3 TMCyC6	EtBenz	Sample
NOCS 34/10-35	DST 3	7.17	14.45	15.26	4.73	1.14	7.74	-	-	-	-	H47/0062
NOCS 34/10-35	DST 2	6.85	14.51	15.00	4.33	1.45	7.24	-	-	-	-	H47/0063
NOCS 34/10-35	DST 1	6.86	14.41	14.93	1.58	4.32	7.14	-	-	-	-	H47/0064

Table 61: Weight of EOM and Chromatographic Fraction for well NOCS 34/10-23

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
4084.91	ccp	S/Sst : lt gy to lt brn gy	8.0	4.8	2.4	0.6	0.6	1.2	3.0	1.8	0.23	0358-1L
4095.00	oil	bulk	-	56.8	46.5	8.3	0.5	1.5	54.8	2.0	-	0360-0B
4097.42	ccp	S/Sst : lt gy to brn gy to pl brn	8.4	7.9	2.7	1.2	1.4	2.6	3.9	4.0	0.42	0359-1L

Table 6 g: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 34/10-23

Page: 1

Depth unit of measure: m

Depth	Typ Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4084.91	ccp S/Sst : lt gy to lt brn gy	602	301	75	75	150	376	225	0358-1L
4095.00	oil bulk	-	-	-	-	-	-	-	0360-0B
4097.42	ccp S/Sst : lt gy to brn gy to pl brn	936	319	142	165	308	462	473	0359-1L

Table 6h: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 34/10-23

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4084.91	ccp	S/Sst : lt gy to lt brn gy	261.85	130.93	32.73	32.73	65.46	163.66	98.19	0358-1L
4095.00	oil	bulk	-	-	-	-	-	-	-	0360-0B
4097.42	ccp	S/Sst : lt gy to brn gy to pl brn	222.86	76.17	33.85	39.49	73.35	110.02	112.84	0359-1L

Table 6 i: Composition of material extracted from the rock (%) for well NOCS 34/10-23

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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	
4084.91	ccp	S/Sst : lt gy to lt brn gy	50.00	12.50	12.50	25.00	62.50	37.50	400.00	166.67	0358-1L
4095.00	oil	bulk	81.87	14.61	0.88	2.64	96.48	3.52	560.24	2740.00	0360-0B
4097.42	ccp	S/Sst : lt gy to brn gy to pl brn	34.18	15.19	17.72	32.91	49.37	50.63	225.00	97.50	0359-1L

Table 6 j: GC of Whole Oil for STATOIL WELL B

(% of C2 - C9)

Page: 1

Well	Description	iC4	nC4	iC5	nC5	2,3DMC4	CyC5	2,3DMC4 /CyC5	2MC5	3MC5	nC6	Sample
NOCS 34/10-23	DST 1	0.28	0.60	1.04	1.35	-	-	0.54	1.63	1.13	3.50	G34/0360

Well	Description	MCyC5	Benz	CyC6	2MC6	3MC6	1,3ciDMCyC5	1,3trDMCyC6	1,2trDMCyC5	Sample
NOCS 34/10-23	DST 1	2.10	5.73	5.15	2.58	2.14	0.69	0.63	1.46	G34/0360

Well	Description	nC7	MCyC6	Tol	2MC7	3MC7+1,2 3MCyC5	nC8	1-cis-2 n-PrCyC5	DMCyC6	1,1,3 TMCyC6	EtBenz	Sample
NOCS 34/10-23	DST 1	6.46	15.57	21.01	2.82	5.00	8.80	-	-	-	-	G34/0360

Table 7a: Saturated Hydrocarbon Ratios for well NOCS 34/10-35

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Depth unit of measure: m

Depth Typ Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
	nC17	Phytane	nC17 + nC18	nC18		
3504.00 oil bulk	0.48	2.36	0.36	0.23	1.11	0061-0B
3530.00 cut Marl : y gy to lt gy	0.69	1.24	0.59	0.50	1.02	0049-1L
3831.00 cut Sh/Clst: m gy to drk gy	0.47	1.53	0.43	0.38	1.05	0053-2L
3852.00 cut Sh/Clst: drk gy to brn blk	0.44	1.51	0.41	0.36	1.26	0054-2L
3885.00 cut Sh/Clst: m gy to drk gy	0.49	1.62	0.43	0.36	0.97	0057-2L
3894.00 cut Sh/Clst: m gy to drk gy	0.44	1.82	0.38	0.30	1.08	0059-2L
3929.00 oil bulk	0.49	2.09	0.39	0.27	1.06	0062-0B
3931.71 ccp S/Sst : pl y brn	0.52	1.93	0.41	0.28	1.19	0019-1L
3933.16 ccp S/Sst : gy w to pl y brn	0.50	2.09	0.39	0.26	1.06	0020-1L
3994.05 ccp S/Sst : gy w to lt brn gy to brn gy	0.48	1.64	0.38	0.28	1.12	0023-1L
3995.00 oil bulk	0.49	2.05	0.39	0.28	1.12	0063-0B
4006.17 ccp S/Sst : gy w to brn gy to dsk brn	0.49	1.67	0.38	0.28	1.08	0025-1L
4021.93 ccp Sh/Clst: brn gy	0.43	2.10	0.35	0.25	1.17	0026-2L

Table 7a: Saturated Hydrocarbon Ratios for well NOCS 34/10-35

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
4025.00	oil	bulk	0.49	2.11	0.39	0.27	1.15	0064-0B
4257.47	ccp S/Sst	: lt gy w to lt brn gy	0.43	1.74	0.35	0.26	1.49	0028-1L
4270.75	ccp S/Sst	: lt gy w to lt gy	0.40	1.74	0.32	0.24	0.87	0031-1L
4283.48	ccp S/Sst	: lt gy w to lt gy	0.49	1.74	0.37	0.26	1.10	0032-1L

Table 7b: Saturated Hydrocarbon Ratios for well NOCS 34/10-23

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
4084.91	ccp	S/Sst : lt gy to lt brn gy	0.52	2.03	0.38	0.25	1.11	0358-1L
4095.00	oil	bulk	0.46	2.39	0.36	0.24	1.10	0360-0B
4097.42	ccp	S/Sst : lt gy to brn gy to pl brn	0.50	2.07	0.37	0.24	1.07	0359-1L

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3504.00	oil	bulk	1.68	4.26	0.71	1.79	1.15	1.35	1.09	-	-	-	0061-0B
3530.00	cut Marl	: y gy to lt gy	1.00	1.26	-	0.78	0.69	0.78	0.81	-	-	-	0049-1L
3831.00	cut Sh/Clst:	m gy to drk gy	0.82	1.25	0.18	0.68	0.59	0.66	0.75	-	-	-	0053-2L
3852.00	cut Sh/Clst:	drk gy to brn blk	0.94	1.43	0.20	0.77	0.65	0.74	0.79	-	-	-	0054-2L
3885.00	cut Sh/Clst:	m gy to drk gy	0.96	1.31	0.22	0.68	0.60	0.67	0.76	-	-	-	0057-2L
3894.00	cut Sh/Clst:	m gy to drk gy	1.07	1.45	0.30	0.78	0.65	0.76	0.79	-	-	-	0059-2L
3929.00	oil	bulk	1.57	3.85	0.55	1.69	1.11	1.32	1.07	-	-	-	0062-0B
3931.71	ccp S/Sst	: pl y brn	-	2.09	-	1.65	1.10	1.31	1.06	-	-	-	0019-1L
3933.16	ccp S/Sst	: gy w to pl y brn	1.47	3.70	0.37	1.38	1.02	1.20	1.01	-	51.23	6.25	0020-1L
3994.05	ccp S/Sst	: gy w to lt brn gy to brn gy	-	3.45	0.22	1.78	1.20	1.41	1.12	-	-	-	0023-1L
3995.00	oil	bulk	1.65	3.96	0.59	1.89	1.19	1.43	1.11	-	-	-	0063-0B
4006.17	ccp S/Sst	: gy w to brn gy to dsk brn	-	2.94	0.18	1.71	1.12	1.29	1.07	-	-	-	0025-1L
4021.93	ccp Sh/Clst:	brn gy	1.22	3.40	0.34	1.32	0.91	1.06	0.95	-	-	-	0026-2L
4025.00	oil	bulk	1.59	3.80	0.63	1.87	1.23	1.49	1.14	-	-	-	0064-0B

Table 8a: Aromatic Hydrocarbon Ratios for well NOCS 34/10-35

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Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MP11	MP12	Rc	DBT/P	4/1MDBT (3+2) /1MDBT	Sample
4257.47	ccp	S/Sst : lt gy w to lt brn gy	-	-	-	1.02	0.88	0.99	0.93	-	-	0028-1L
4270.75	ccp	S/Sst : lt gy w to lt gy	-	-	-	1.80	1.01	1.16	1.01	-	-	0031-1L
4283.48	ccp	S/Sst : lt gy w to lt gy	-	-	-	0.69	0.85	0.99	0.91	-	-	0032-1L

Table 8b: Aromatic Hydrocarbon Ratios for well NOCS 34/10-23

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	(3+2)		Sample
											4/1MDBT	/1MDBT	
4084.91	ccp	S/Sst : lt gy to lt brn gy	-	-	-	1.73	1.20	1.34	1.12	-	-	-	0358-1L
4095.00	oil	bulk	1.59	3.93	0.73	1.69	1.15	1.36	1.09	1.68	-	-	0360-0B
4097.42	ccp	S/Sst : lt gy to brn gy to pl brn	1.44	2.09	0.26	1.74	1.16	1.35	1.10	-	-	-	0359-1L

Table 9a: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 34/10-35

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
3504.00	oil	bulk	-	-28.78	-25.80	-26.50	-28.18	-	0061-0
3831.00	cut	Sh/Clst	-	-	-	-	-	-28.09	0053-2
3852.00	cut	Sh/Clst	-	-	-	-	-	-28.37	0054-2
3894.00	cut	Sh/Clst	-	-	-	-	-	-27.61	0059-2
3929.00	oil	bulk	-	-29.05	-26.32	-26.51	-28.48	-	0062-0
3995.00	oil	bulk	-	-29.19	-26.21	-26.85	-28.58	-	0063-0
4025.00	oil	bulk	-	-29.10	-26.18	-26.89	-28.57	-	0064-0
3530.00	cut	Marl	-	-	-	-	-	-27.51	0049-1

Depth unit of measure: m

Depth	Typ	Lithology	Saturated	Aromatic	cv value	Interpretation	Sample
3504.00	oil	bulk	-28.78	-25.80	3.89	Terrigenous	0061-0
3831.00	cut	Sh/Clst	-	-	-	Marine	0053-2
3852.00	cut	Sh/Clst	-	-	-	Marine	0054-2
3894.00	cut	Sh/Clst	-	-	-	Marine	0059-2
3929.00	oil	bulk	-29.05	-26.32	3.42	Terrigenous	0062-0
3995.00	oil	bulk	-29.19	-26.21	4.01	Terrigenous	0063-0
4025.00	oil	bulk	-29.10	-26.18	3.85	Terrigenous	0064-0
3530.00	cut	Marl	-	-	-	Marine	0049-1

Table 9C: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 34/10-23

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Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
4084.91	ccp	S/Sst	-	-28.75	-26.54	-28.49	-27.21	-	0358-1
4095.00	oil	bulk	-27.71	-28.68	-25.78	-26.93	-28.02	-	0360-0
4097.42	ccp	S/Sst	-	-28.80	-26.44	-27.93	-27.37	-	0359-1

Table 9D: Tabulation of cv values from carbon isotope data for well NOCS 34/10-23

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>Interpretation</u>	<u>Sample</u>
4084.91	ccp	S/Sst	-28.75	-26.54	2.17	Terrigenous	0358-1
4095.00	oil	bulk	-28.68	-25.78	3.68	Terrigenous	0360-0
4097.42	ccp	S/Sst	-28.80	-26.44	2.52	Terrigenous	0359-1

Table 10A: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 34/10-35

Page: 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		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
3504.00	bulk	-	-	-		0.91	0.48	3.40	0.91	1.00	0.48	3.28	1.00	0.48	-	-		0061-0
3831.00	Sh/Clst	0.13	0.12	0.05		0.27	0.21	0.25	0.04	0.15	0.04	0.14	0.94	0.20	0.05	60.89		0053-2
3852.00	Sh/Clst	0.18	0.15	0.08		0.28	0.22	0.20	0.07	0.24	0.06	0.27	0.95	0.21	0.04	61.07		0054-2
3885.00	Sh/Clst	0.13	0.12	0.05		0.24	0.20	0.24	0.04	0.15	0.04	0.15	0.94	0.19	0.05	60.95		0057-2
3894.00	Sh/Clst	0.13	0.12	0.06		0.25	0.20	0.29	0.05	0.18	0.04	0.17	0.94	0.19	0.05	61.85		0059-2
3929.00	bulk	0.35	0.26	0.40		0.39	0.28	1.08	0.37	0.96	0.27	1.62	1.00	0.28	-	100.00		0062-0
3931.71	S/Sst	0.17	0.15	0.15		0.44	0.31	0.76	0.19	0.43	0.16	0.80	1.00	0.31	-	59.24		0019-1
3933.16	S/Sst	0.19	0.16	0.20		0.42	0.30	0.71	0.24	0.56	0.19	0.74	1.00	0.30	-	63.91		0020-1
3994.05	S/Sst	0.30	0.23	0.29		1.31	0.57	0.45	0.15	0.12	0.13	1.24	1.00	0.57	-	60.58		0023-1
3995.00	bulk	0.31	0.24	0.43		0.44	0.31	1.75	0.72	1.62	0.42	3.18	1.00	0.31	-	-		0063-0
4006.17	S/Sst	0.40	0.28	0.21		0.88	0.47	0.25	0.13	0.14	0.11	0.69	0.92	0.47	0.09	58.15		0025-1
4021.93	Sh/Clst	0.17	0.15	0.16		0.66	0.40	1.67	0.34	0.51	0.25	0.96	0.66	0.30	0.31	61.89		0026-2
4025.00	bulk	0.24	0.19	0.37		0.45	0.31	1.71	0.54	1.20	0.35	2.88	1.00	0.31	-	100.00		0064-0
4257.47	S/Sst	0.80	0.44	0.25		0.89	0.47	0.07	0.11	0.12	0.10	0.66	0.92	0.47	0.08	58.54		0028-1

Depth unit of measure: m

Depth	Lithology	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/A	B/B+A	B+E+F									C+D+E+F		J1+J2%	
4270.75	S/Sst	0.60	0.37	0.24	0.92	0.48	0.09	0.08	0.09	0.08	1.48	0.94	0.48	0.06	61.63	0031-1
4283.48	S/Sst	1.14	0.53	0.25	0.78	0.44	0.05	0.07	0.09	0.06	0.62	0.91	0.44	0.10	63.75	0032-1
3530.00	Marl	0.16	0.13	0.05	0.31	0.24	0.19	0.03	0.09	0.03	0.12	0.94	0.22	0.05	61.72	0049-1

Table 10B: Variation in Sterane Distribution (peak height) SIR for Well NOCS 34/10-35

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Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3504.00	bulk	0.84	57.51	79.99	1.06	0.78	0.70	0.57	0.67	1.35	4.71	0061-0
3831.00	Sh/Clst	0.84	58.20	79.12	1.33	0.77	0.58	0.43	0.65	1.39	4.53	0053-2
3852.00	Sh/Clst	0.81	56.43	78.71	1.24	0.77	0.69	0.54	0.65	1.30	4.24	0054-2
3885.00	Sh/Clst	0.86	60.29	78.95	1.31	0.76	0.62	0.48	0.65	1.52	4.72	0057-2
3894.00	Sh/Clst	0.85	64.33	77.62	1.36	0.73	0.62	0.48	0.63	1.80	4.86	0059-2
3929.00	bulk	0.85	47.87	74.57	1.38	0.75	0.70	0.59	0.59	0.92	2.81	0062-0
3931.71	S/Sst	0.83	57.62	78.05	1.35	0.76	0.63	0.52	0.64	1.36	4.20	0019-1
3933.16	S/Sst	0.80	59.56	82.96	1.29	0.80	0.69	0.55	0.71	1.47	6.02	0020-1
3994.05	S/Sst	0.81	52.43	79.40	1.40	0.79	0.65	0.49	0.66	1.10	4.05	0023-1
3995.00	bulk	0.83	56.54	80.90	1.26	0.79	0.71	0.60	0.68	1.30	4.87	0063-0
4006.17	S/Sst	0.79	53.69	80.28	1.41	0.79	0.60	0.46	0.67	1.16	4.40	0025-1
4021.93	Sh/Clst	0.77	50.70	74.29	1.01	0.74	0.70	0.58	0.59	1.03	2.93	0026-2

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	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
4025.00	bulk	0.84	61.96	79.89	1.25	0.76	0.70	0.59	0.67	1.63	5.22	0064-0
4257.47	S/Sst	0.80	50.42	75.49	1.48	0.75	0.62	0.47	0.61	1.02	3.10	0028-1
4270.75	S/Sst	0.84	47.32	69.30	1.85	0.70	0.78	0.64	0.53	0.90	2.14	0031-1
4283.48	S/Sst	0.78	39.66	71.85	1.21	0.76	0.66	0.53	0.56	0.66	2.12	0032-1
3530.00	Marl	0.87	55.47	80.91	1.48	0.79	0.32	0.20	0.68	1.25	4.76	0049-1

Ratio1: $a / a + j$ Ratio2: $g / g + t * 100\%$ Ratio3: $2(r + s) / (g + t + 2(r + s)) * 100\%$ 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: g / 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			
3504.00	bulk	7795.2	6876.1	3273.3	2186.5	0.0	9001.0	0.0	1910.7	1906.7	0061-0
		7130.0	0.0	2095.5	0.0	1392.4	0.0	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3831.00	Sh/Clst	164243.3	121820.6	62714.6	81861.7	39636.1	377119.1	49309.3	34422.6	224828.8	0053-2
		210838.9	0.0	840424.3	51040.3	371545.6	248520.7	27952.0	292774.2		
		188041.5	206259.0	135044.3	145520.0	89968.0	122430.4	75913.6			
3852.00	Sh/Clst	97538.5	70000.8	30721.0	42203.4	20472.0	141144.7	24790.4	17435.9	71282.8	0054-2
		52432.0	0.0	258744.8	14293.3	104164.6	67113.6	8305.3	79144.6		
		50445.2	55024.9	37493.0	38363.0	25842.7	31732.2	21651.2			
3885.00	Sh/Clst	92513.4	71821.2	38986.7	47788.0	19966.8	202544.8	26944.8	17415.4	114474.0	0057-2
		112431.3	0.0	467301.3	28522.2	197230.4	123024.8	13109.0	156215.7		
		100072.9	105077.4	68524.6	73082.1	46322.4	57069.2	36742.5			
3894.00	Sh/Clst	78871.1	60185.4	29801.5	45577.8	17590.4	188621.2	24819.0	16142.5	88889.3	0059-2
		102656.0	0.0	354484.1	21836.7	140264.4	91996.9	10484.8	111864.6		
		69012.3	72602.6	51260.7	53088.0	35526.1	40840.9	26439.5			

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			
3929.00	bulk	9730.8 5346.9 0.0	8024.0 0.0	4098.5 0.0 0.0	2947.6 4957.0 0.0	2485.9 0.0 0.0	9231.7 2571.2 0.0	3270.6 1780.4 0.0	1848.5 0.0	1924.1 1347.6	0062-0
3931.71	S/Sst	33467.3 21772.0 6749.3	22968.5 0.0 7111.2	12008.9 0.0 4587.9	9275.2 28631.4 4827.0	6974.3 0.0 3528.4	29281.6 15668.0 5348.0	4976.0 8026.2 4756.0	5483.0 0.0	12624.0 9808.7	0019-1
3933.16	S/Sst	28384.0 18284.0 4764.3	19057.8 0.0 5218.1	9921.1 0.0 3460.8	7627.1 25804.0 3082.6	7124.0 0.0 0.0	32652.8 12042.3 3267.8	6364.9 7947.5 0.0	6090.1 0.0	10895.0 8436.0	0020-1
3994.05	S/Sst	86731.8 16925.5 5857.6	46746.8 0.0 3698.5	24008.0 0.0 0.0	47979.1 37850.2 4547.9	16276.0 0.0 0.0	50989.2 15389.0 2904.0	15293.0 10743.0 0.0	5710.8 0.0	49592.0 9002.7	0023-1
3995.00	bulk	16152.5 6788.3 0.0	12375.9 0.0 0.0	5740.3 0.0 0.0	4347.0 3889.5 0.0	3212.5 0.0 0.0	9516.4 2207.8 0.0	2972.5 0.0 0.0	2801.4 0.0	1724.6 0.0	0063-0

Schlumberger

GECO-PRAKLA

GEOLAB NOR

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			
4006.17	S/Sst	85930.6	48607.2	27152.7	44054.4	14640.6	52990.1	21048.5	8981.5	62451.7	0025-1
		17626.5	5519.3	70819.3	6458.7	28738.0	17098.9	4081.0	14467.3		
		10411.0	10184.8	7951.7	5989.6	3890.5	5992.6	4363.6			
4021.93	Sh/Clst	27408.0	21026.1	8154.7	9514.2	7108.0	37724.8	6442.7	7351.8	14394.7	0026-2
		36363.4	0.0	21833.0	11250.0	13101.6	7260.4	10775.4	11321.2		
		6970.2	4228.0	0.0	0.0	0.0	0.0	0.0			
4025.00	bulk	11480.0	10443.1	4556.4	2419.1	2961.1	8906.6	2123.8	1951.3	1619.4	0064-0
		6188.6	0.0	3626.4	0.0	2641.1	1272.0	0.0	1225.1		
		0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4257.47	S/Sst	138288.0	82220.7	39544.6	59422.0	19236.2	55302.9	44024.5	13707.0	111125.9	0028-1
		8643.8	8935.1	124591.5	10133.5	49125.5	32179.3	4368.0	24204.7		
		17142.6	15402.8	9430.8	9590.5	6395.6	9234.8	4785.3			
4270.75	S/Sst	42283.3	20056.3	7603.6	11965.5	4593.7	7461.0	4441.5	1130.0	12460.5	0031-1
		1158.6	723.0	13520.4	921.6	4481.0	2637.2	0.0	2197.1		
		1367.6	1439.6	1176.5	1263.5	0.0	1103.7	0.0			

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			
4283.48	S/Sst	84288.2	46825.5	19485.0	27167.2	9513.1	24601.2	28033.5	4977.6	58559.4	0032-1
		3747.2	6557.3	75001.6	7415.8	26374.7	17007.4	3542.8	12315.9		
		7004.3	6593.6	4136.4	3696.9	2535.8	3391.2	1783.4			
3530.00	Marl	98299.4	76623.0	49919.0	52528.0	28949.5	240201.4	37477.9	17544.5	203625.6	0049-1
		126545.6	0.0	661509.3	43704.0	297702.9	185017.7	19903.0	230044.3		
		142672.0	167049.8	106648.5	122209.6	79513.4	105895.0	62013.9			

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					
3504.00	bulk	21635.6	5256.0	15160.5	8103.9	4186.3	2534.3	6682.8	3090.4	2646.8	0061-0
		13954.1	4509.8	2914.5	8523.5	2653.7	1447.4	3140.3	4380.3		
		1829.6	2178.8	4206.4	3366.4	1609.5					
3831.00	Sh/Clst	292760.0	159628.7	377926.4	235392.0	93285.8	95368.9	182701.4	102907.4	73939.1	0053-2
		300576.6	149814.8	70675.1	156691.1	55276.0	32947.5	91123.5	129100.9		
		30752.0	64770.5	118159.6	92770.8	46528.3					
3852.00	Sh/Clst	216366.2	106419.1	141358.8	91172.0	34464.4	36466.8	79141.8	46374.5	34824.6	0054-2
		115279.2	63087.2	33034.2	60792.1	21881.4	17849.4	46425.4	59001.4		
		18929.4	28977.3	52063.0	42873.0	22372.0					
3885.00	Sh/Clst	186811.2	89480.0	199636.0	121486.8	45150.3	44884.1	90228.1	49769.6	40971.2	0057-2
		155787.2	70635.2	33691.2	86922.2	27141.3	19973.3	44885.3	66933.3		
		20300.0	35586.2	60502.6	50181.3	23443.6					
3894.00	Sh/Clst	140095.0	72067.8	165833.6	100149.2	38739.6	36730.7	75273.1	38337.3	31189.4	0059-2
		123637.4	54933.4	28496.2	70500.8	24051.0	12384.7	33412.9	51748.9		
		13200.6	30037.4	44471.8	36503.8	16656.8					

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					
3929.00	bulk	22657.7	6570.0	19938.0	12331.7	4522.0	4075.9	11498.3	4655.3	2735.0	0062-0
		14367.0	4519.0	3570.3	8751.6	2792.8		0.0	3752.7	5546.2	
		1967.6	2387.5	3942.4	3369.9	2599.7					
3931.71	S/Sst	59934.2	16381.3	54924.0	33245.8	10782.7	12671.8	29420.2	14310.3	8492.7	0019-1
		40838.0	14693.9	11490.2	26301.6	7565.4	3749.9	8217.0	14349.9		
		4060.2	9236.0	15984.4	12515.5	6792.8					
3933.16	S/Sst	57523.8	15432.2	42329.7	26617.9	10491.5	12861.5	21482.5	11171.2	8841.3	0020-1
		34110.4	15248.0	10344.5	22051.5	7598.7	3580.2	7738.4	12330.5		
		3872.0	5814.8	14006.2	9758.2	3948.5					
3994.05	S/Sst	75013.0	28124.7	80765.8	46681.0	18089.9	17370.5	36460.0	17197.5	18634.7	0023-1
		56090.7	25882.7	18890.2	32201.9	12776.3	8664.3	15600.3	18784.3		
		6960.7	9941.3	21534.7	15010.2	9018.8					
3995.00	bulk	40469.6	9722.9	27064.2	16237.2	6724.0	5520.2	13546.4	7036.0	5261.3	0063-0
		22536.7	7924.6	5602.1	11929.3	4513.5		0.0	5200.4	8692.4	
		2659.2	3680.7	6894.3	6889.4	2829.7					

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					
4006.17	S/Sst	75976.0	31326.2	85304.3	51528.0	20387.4	19939.4	41220.6	18953.2	21507.1	0025-1
		64659.1	29571.1	22855.8	34688.0	11229.9	7115.1	15427.1	23427.1		
		8492.0	12784.1	27148.0	21324.0	11025.6					
4021.93	Sh/Clst	48008.7	12667.3	32825.5	21816.4	7420.0	10449.3	18975.6	10204.0	8365.0	0026-2
		34482.6	11616.4	9857.6	21164.1	10528.0	0.0	5423.8	10311.8		
		3756.8	5489.0	8454.0	7184.4	5337.9					
4025.00	bulk	37795.5	9284.0	24541.0	13611.3	5416.2	4915.4	11611.4	5684.3	4764.5	0064-0
		19064.5	6080.5	4657.6	10834.1	4439.1	2165.2	4306.5	6342.5		
		1866.2	4180.2	6969.4	6431.0	2566.8					
4257.47	S/Sst	83132.9	45740.2	117452.0	67979.3	24515.2	24356.9	47508.9	21822.9	30553.6	0028-1
		85273.6	38233.6	29885.4	41116.4	12351.4	9741.2	19869.2	22741.2		
		11804.0	15903.4	26692.0	21874.0	15641.5					
4270.75	S/Sst	20277.5	9258.0	14344.7	7720.7	3393.3	2670.8	5780.8	2458.0	3571.4	0031-1
		7945.4	4589.4	2798.3	3903.2	1188.1	1165.6	2197.5	2781.5		
		1094.5	1880.2	2279.4	2206.3	2093.4					

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					
4283.48	S/Sst	36127.1	19814.6	32056.5	16367.0	5965.2	6348.3	13772.0	5593.6	9422.1	0032-1
		27978.1	11478.1	8882.5	11977.7	4753.5	3571.5	5663.5	6863.9		
		4357.4	5008.8	9241.3	6879.5	7622.1					
3530.00	Marl	94913.6	5663.3	340814.9	194222.8	81317.6	80318.0	165342.0	87272.0	56188.7	0049-1
		237436.7	104252.7	50988.1	137446.6	42063.8	19445.8	54153.9	95999.9		
		22109.7	37736.3	79732.8	64468.8	30290.6					

Table 10E: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 34/10-23

Page: 1

Depth unit of measure: m

Depth	Lithology	B			C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	C+D		J1		Sample
		B/A	B/B+A	B+E+F								E/E+F	C+D+E+F	D+F/C+E	J1+J2%	
4084.91	S/Sst	0.55	0.35	0.23	0.75	0.43	0.48	0.10	0.14	0.09	1.54	0.89	0.40	0.07	67.17	0358-1
4095.00	Dstl	-	-	-	0.48	0.32	2.74	0.48	1.00	0.32	0.50	1.00	0.32	-	70.08	0360-0
4097.42	S/Sst	0.43	0.30	0.31	0.66	0.40	0.90	0.27	0.41	0.21	0.99	1.00	0.40	-	54.95	0359-1

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
4084.91	S/Sst	0.83	49.65	78.34	1.23	0.78	0.73	0.63	0.64	0.99	3.59	0358-1
4095.00	Dstl	0.82	48.19	77.21	0.89	0.78	0.36	0.26	0.63	0.93	3.27	0360-0
4097.42	S/Sst	0.79	50.93	75.78	1.03	0.75	0.65	0.52	0.61	1.04	3.19	0359-1

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

Table 10G: Raw GCMS triterpane data (peak height) SIR for Well NOCS 34/10-23

Page: 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			
4084.91	S/Sst	171625.6	94331.2	40164.2	19292.0	13680.0	36654.8	20156.5	6415.7	46230.5	0358-1
		29295.1		0.0	61404.0	7851.5	32620.4	20998.9	0.0	21300.9	
		10410.0	9632.9	6734.7	5803.7	4151.3	4382.9	2961.5			
4095.00	Dst1	53984.0	34144.0	0.0	28640.0	17312.0	142795.5	0.0	32220.0	32227.0	0360-0
		185056.0		0.0	67647.9	0.0	17670.0	19904.0	29655.5	29640.5	
		12653.8	32275.8	0.0	0.0	0.0	0.0	0.0			
4097.42	S/Sst	28574.5	15389.5	7216.0	6691.4	3187.1	16159.9	6958.2	4209.1	10276.8	0359-1
		14011.2		0.0	15495.6	0.0	6880.0	3745.1	2026.5	3647.5	
		2990.6	3253.8	1902.0	0.0	0.0	0.0	0.0			

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					
4084.91	S/Sst	105721.8	49546.4	57442.1	32091.2	14833.2	13000.0	28123.7	14671.3	10939.6	0358-1
		48947.6	17699.6	11609.4	26039.3	9409.0	4547.5	11035.5	14779.5		
		6173.7	9981.3	19783.1	16572.5	10121.6					
4095.00	Dst1	115622.7	27098.6	185934.5	138780.8	38186.7	44896.0	111776.0	60936.2	39080.2	0360-0
		205608.3	74344.2	41121.6	140257.7	58590.3	19830.3	55643.4	84170.7		
		28653.0	45957.0	90518.8	71013.1	49401.7					
4097.42	S/Sst	35947.4	9630.1	23061.2	12375.0	6214.2	5801.0	13009.0	6272.0	5725.2	0359-1
		23077.2	8773.2	6136.2	13902.0	3726.6	2994.5	5520.7	8092.7		
		2726.8	4857.8	8149.4	6769.4	4680.1					

APPENDIX 2:

GAS CHROMATOGRAMS

WHOLE OIL FID CHROMATOGRAMS

WHOLE OIL FPD CHROMATOGRAMS

WHOLE EOM FID CHROMATOGRAMS

WHOLE EOM FPD CHROMATOGRAMS

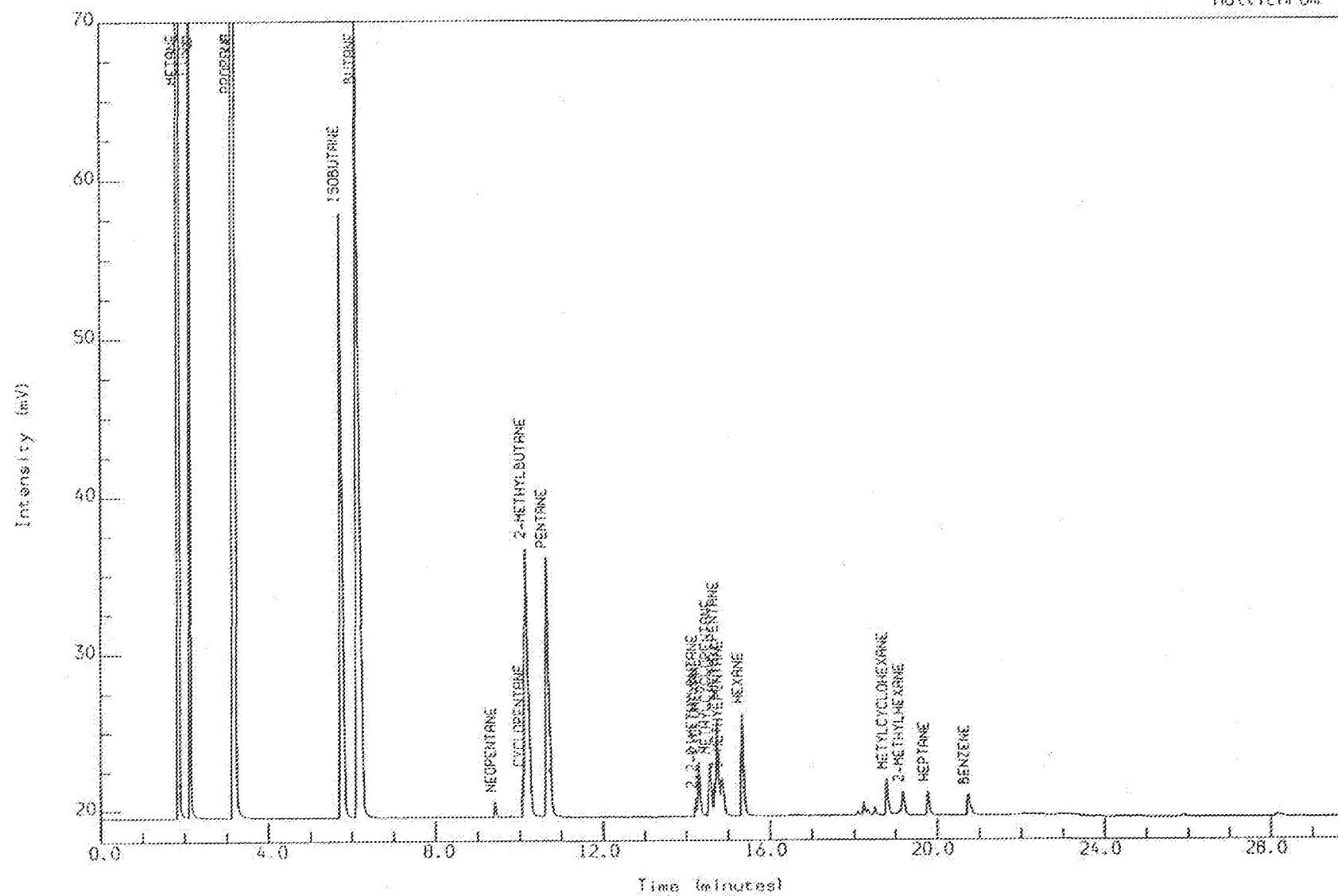
SATURATE FID CHROMATOGRAMS

AROMATIC FID CHROMATOGRAMS

AROMATIC FPD CHROMATOGRAMS

Analysis Name : [526265] 19 SAMPLE8DST1.1.1.

Multichrom



WELL NOCS 34/10-35 DST 1
GASS GC

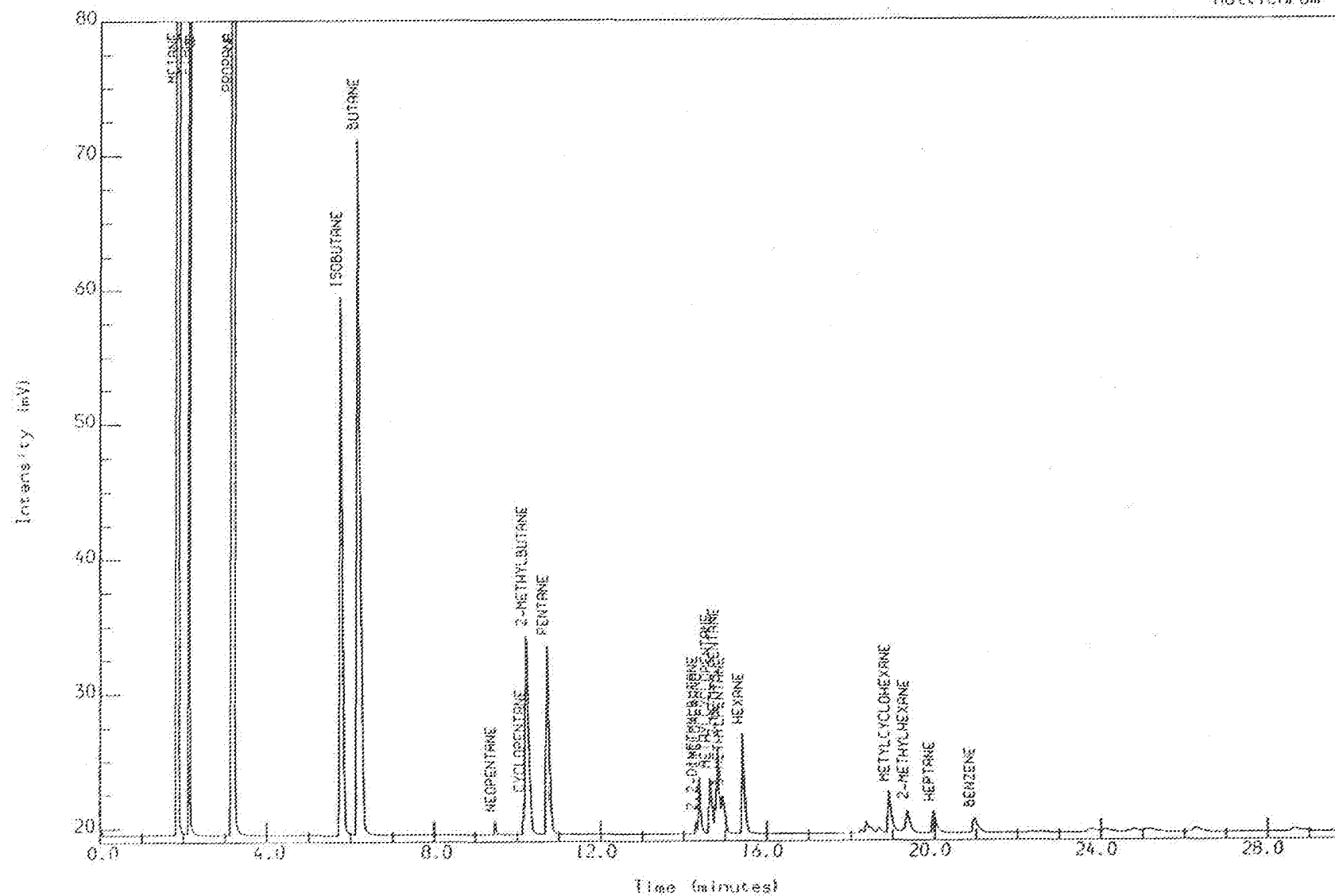
Schlumberger

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GEOLAB NOR

Analysis Name : [526265] 19 SAMPLECDS12,1,1.

Multichrom



WELL NOCS 34/10-35 DST 2
GASS GC

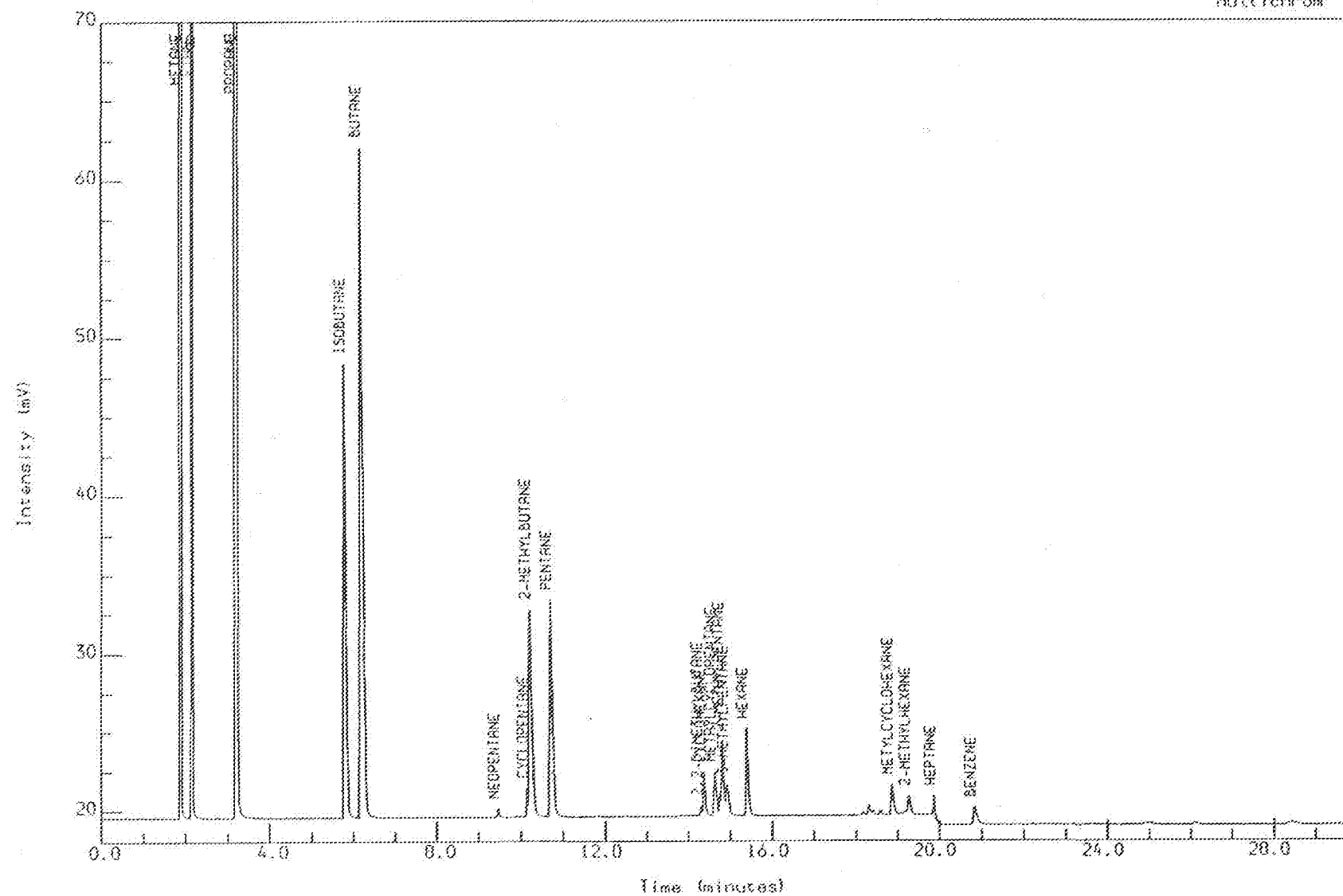
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 19 SAMPLEDDST3,1,1.

Multichrom



WELL NOCS 34/10-35 DST 3
GASS GC

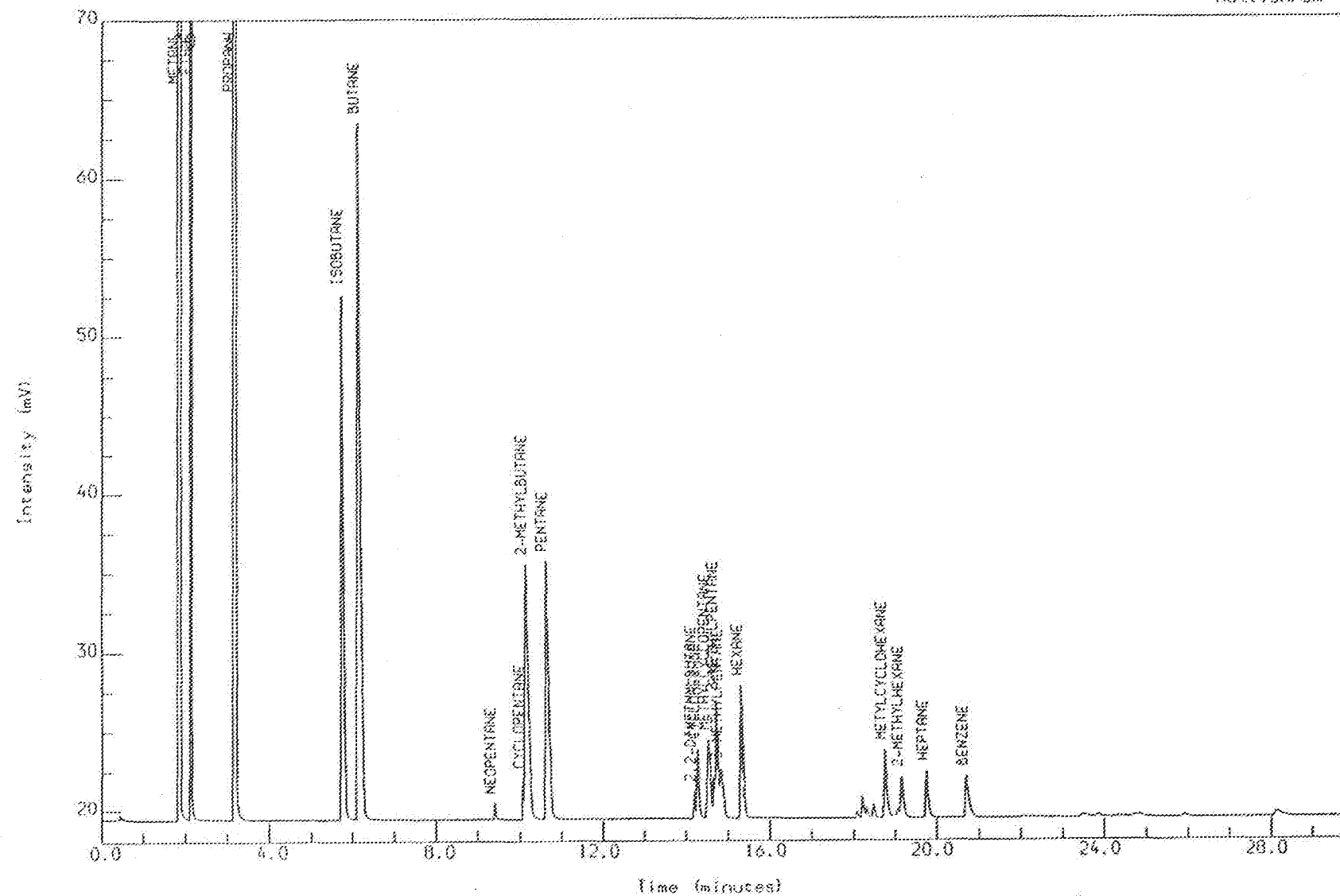
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GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 19 SAMPLEADSTIB,1,1.

Multichrom



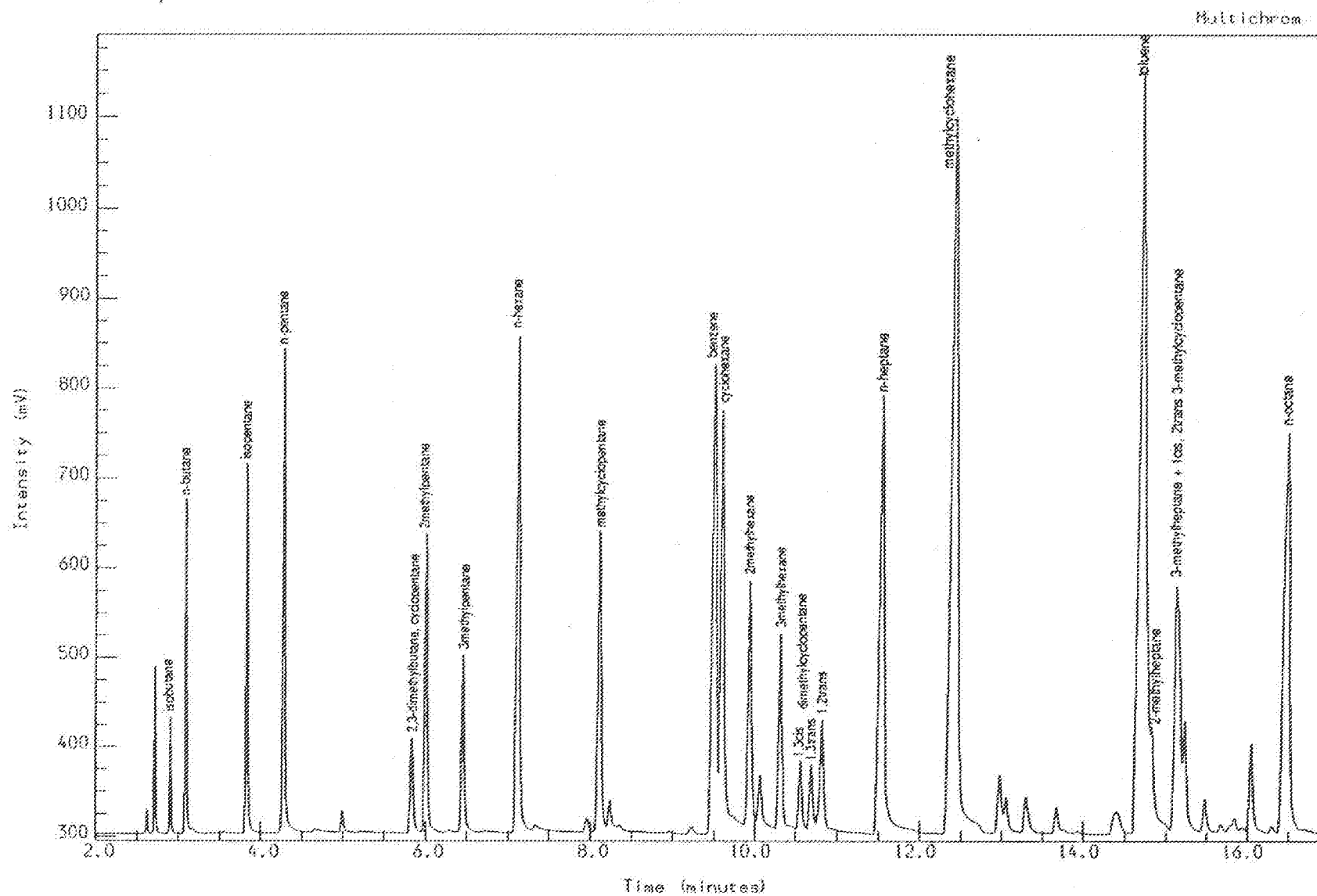
WELL NOCS 34/10-23 DST 1
GASS GC

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410351.1.1.



WELL NOCS 34/10-35 DST-1
WHOLE OIL GC (FID)

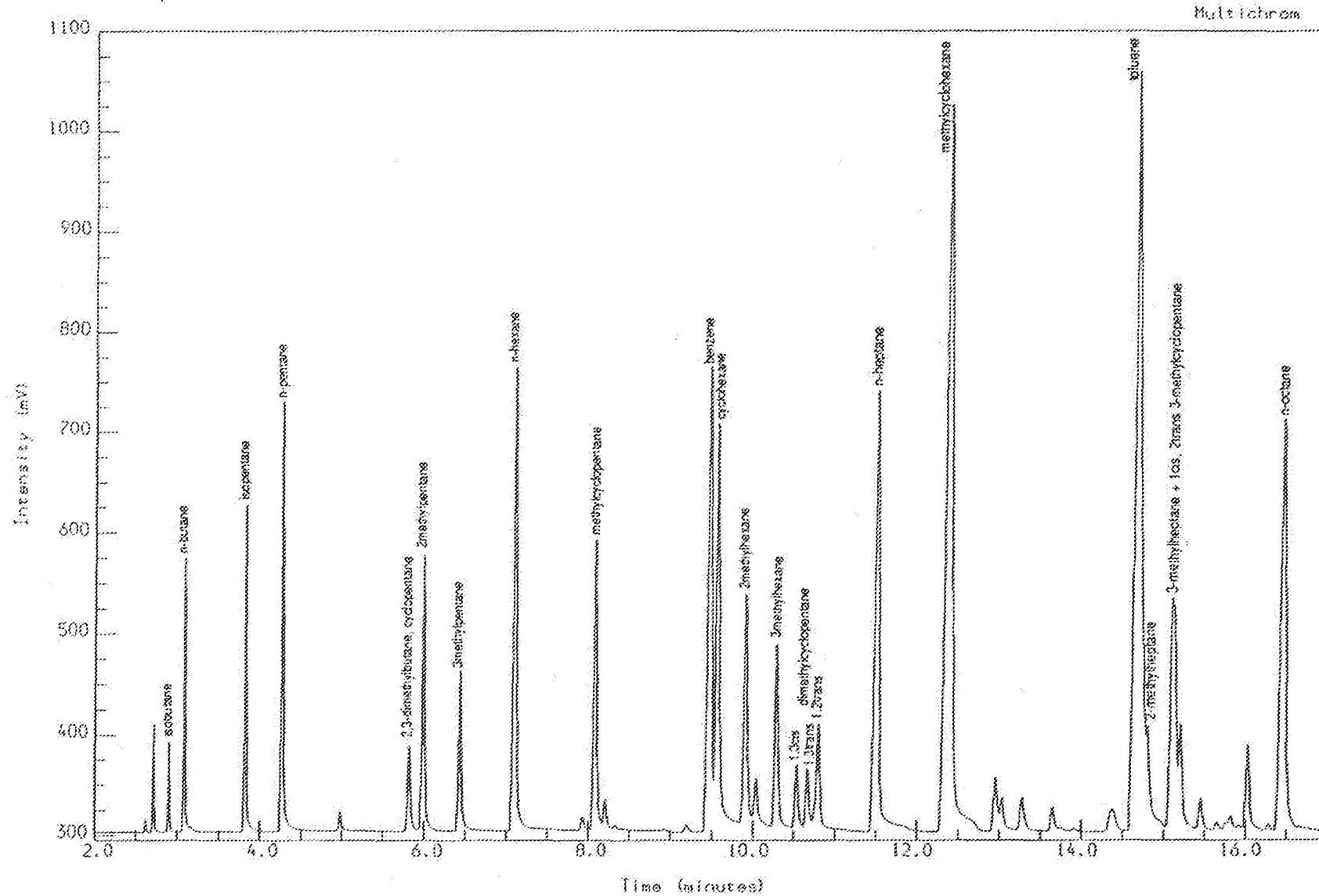
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Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410352.1.1.



WELL NOCS 34/10-35 DST.2
WHOLE OIL GC (FID)

Reported on 28-SEP-1992 at 09.28

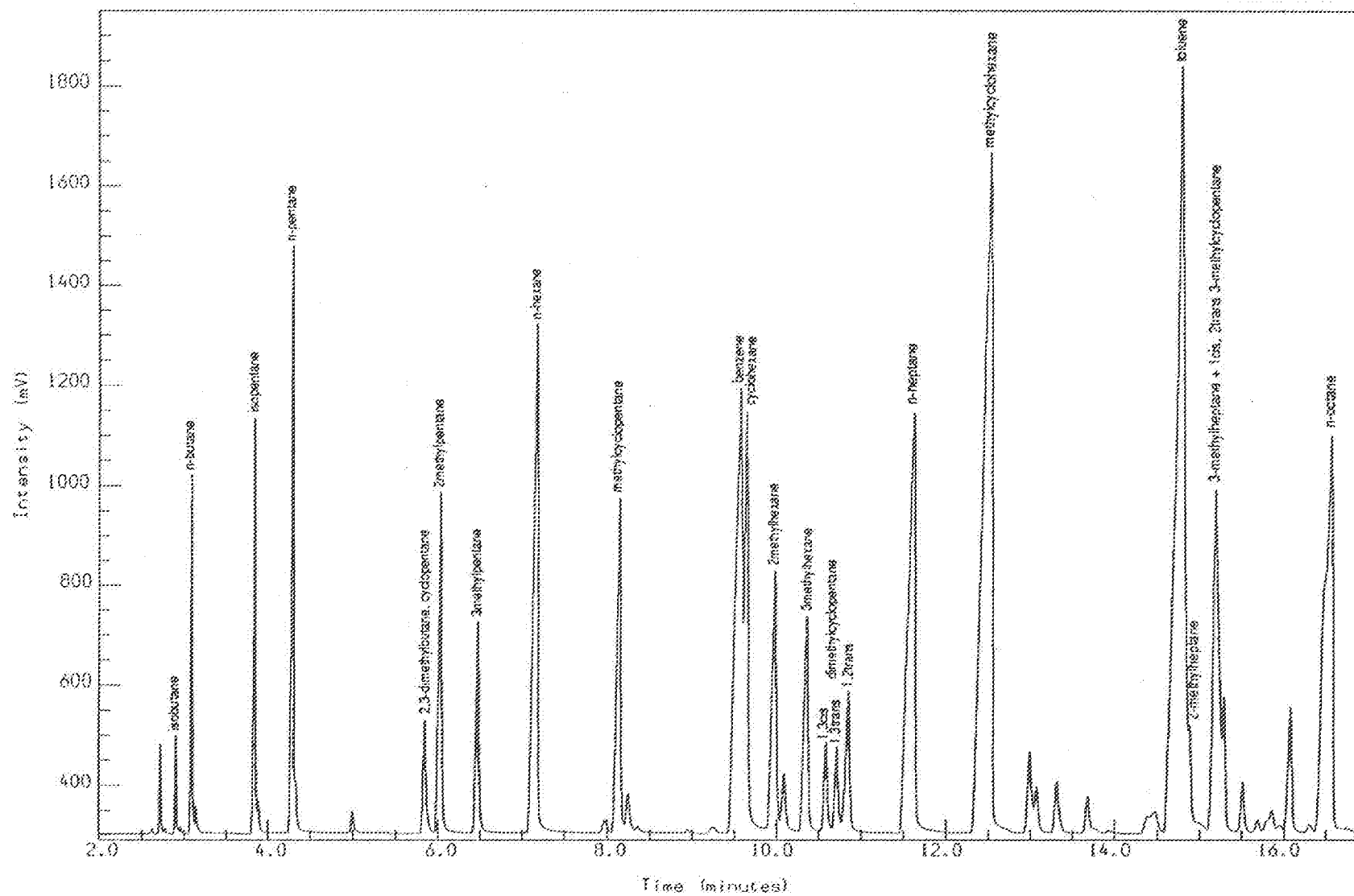
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31.W03410353.1.1.

Multichrom



WELL NDCS 34/10-3S DST.3
WHOLE OIL GC (FID)

Reported on 28-SEP-1992 at 09.29

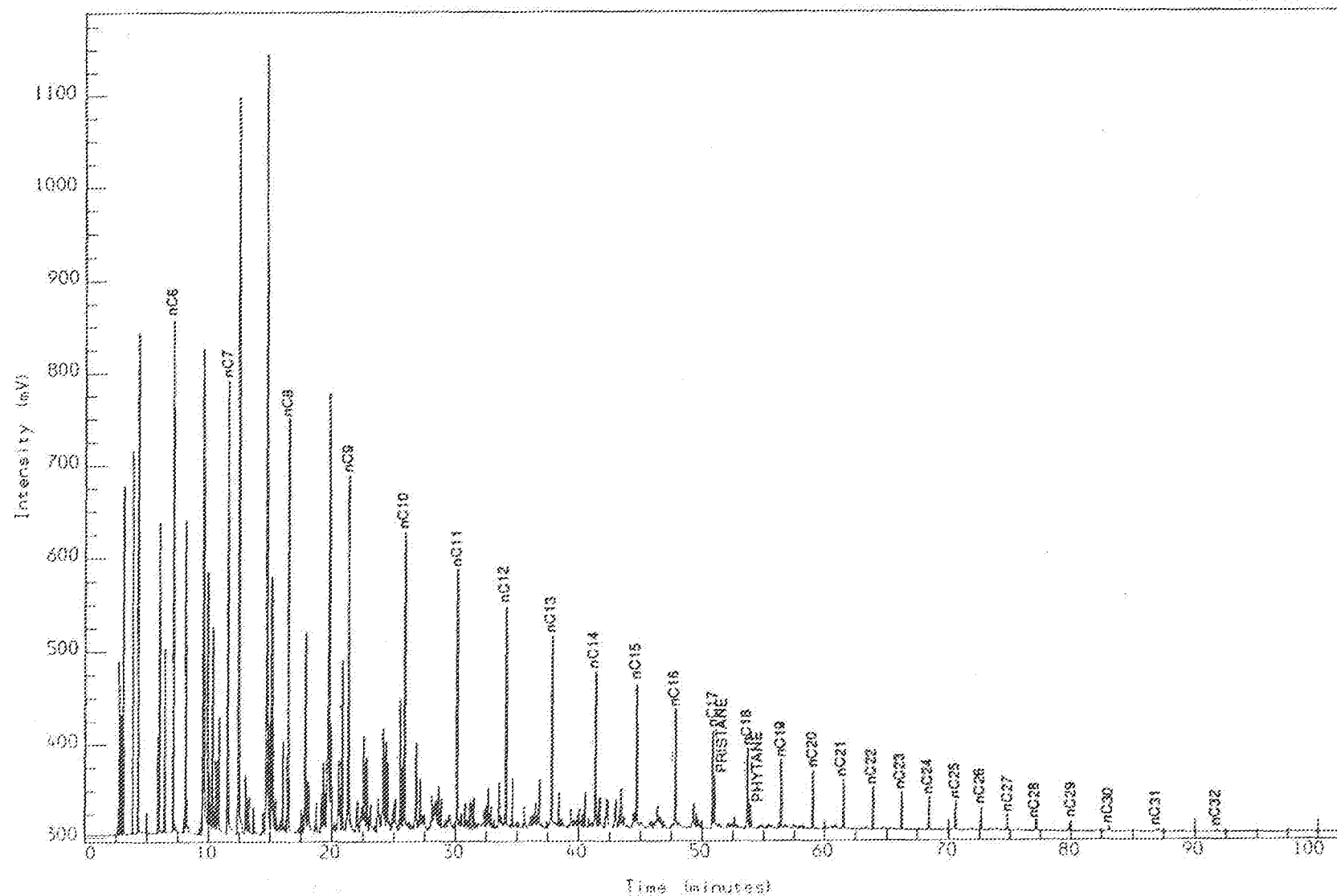
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410351.1.1.

Multichrom



WELL NOCS 34/10-35 DST.1
WHOLE OIL GC (FID)

Reported on 25-SEP-1992 at 09:06

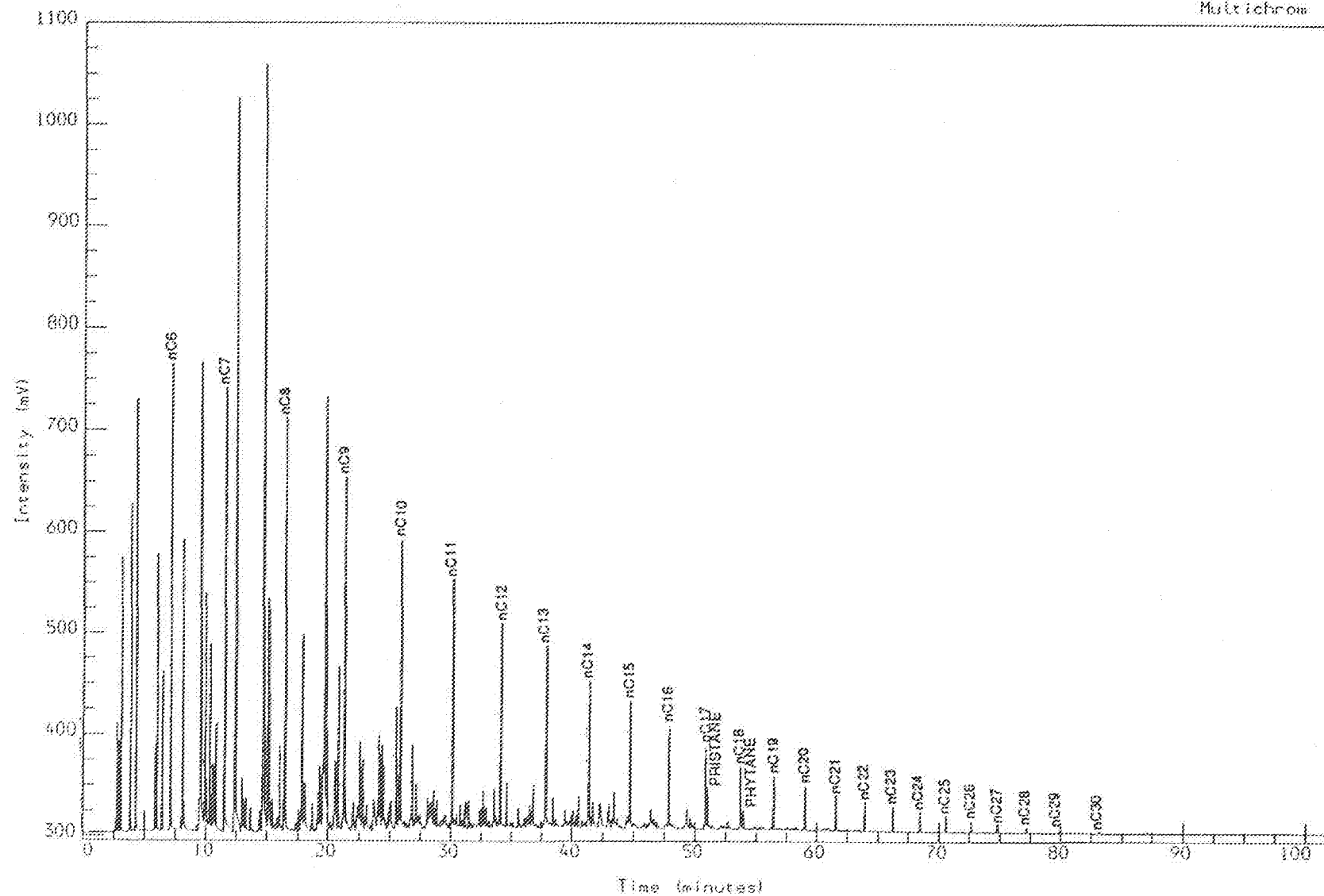
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410352.1.1.

Multichrom



WELL NOCS 34/10-35 DST.2
WHOLE OIL GC (FID)

Reported on 25-SEP-1992 at 11:17

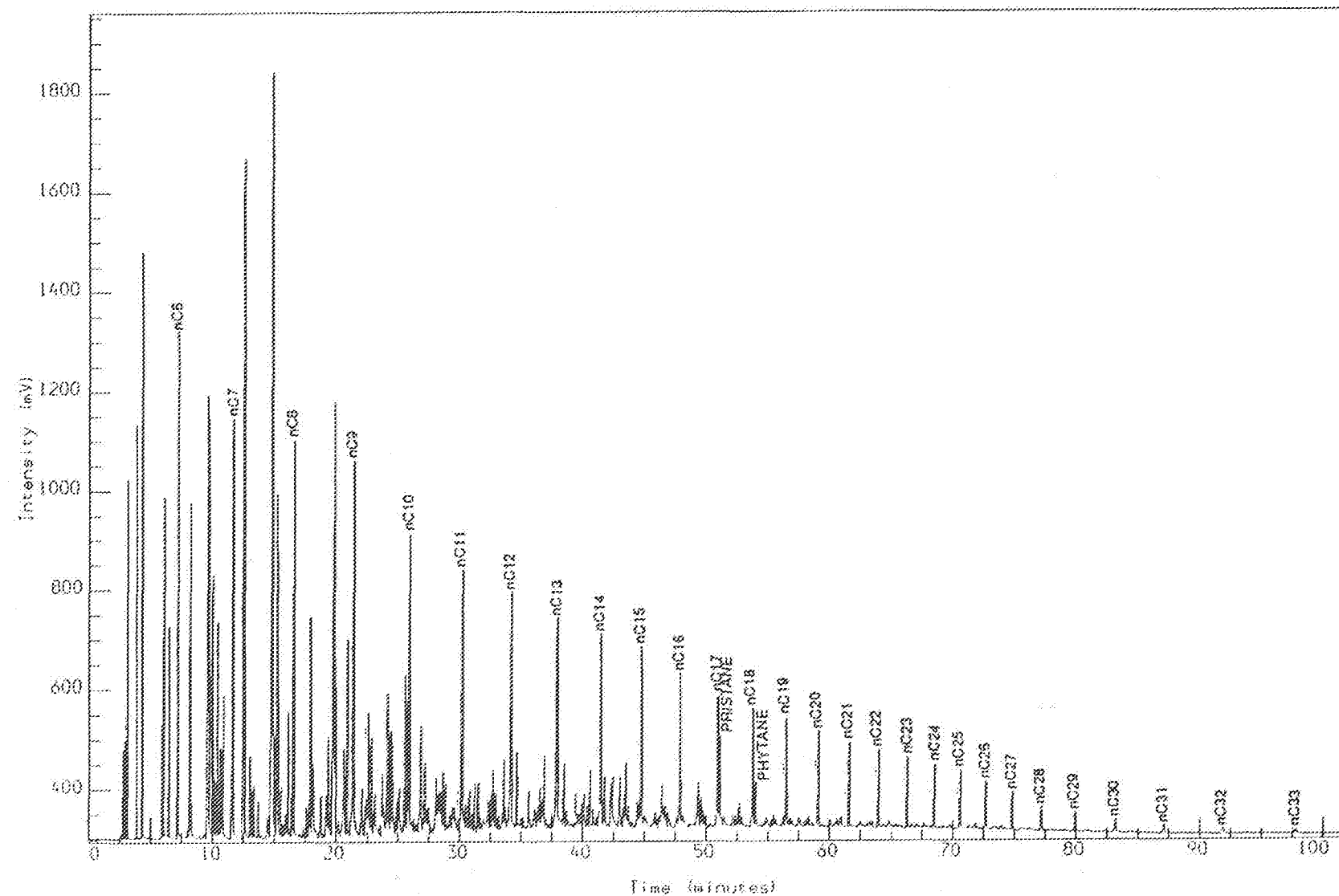
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410353,1,1.

Multichrom



WELL NOCS 34/10-35 DS1.3
WHOLE OIL GC (FID)

Reported on 25-SEP-1992 at 13:17

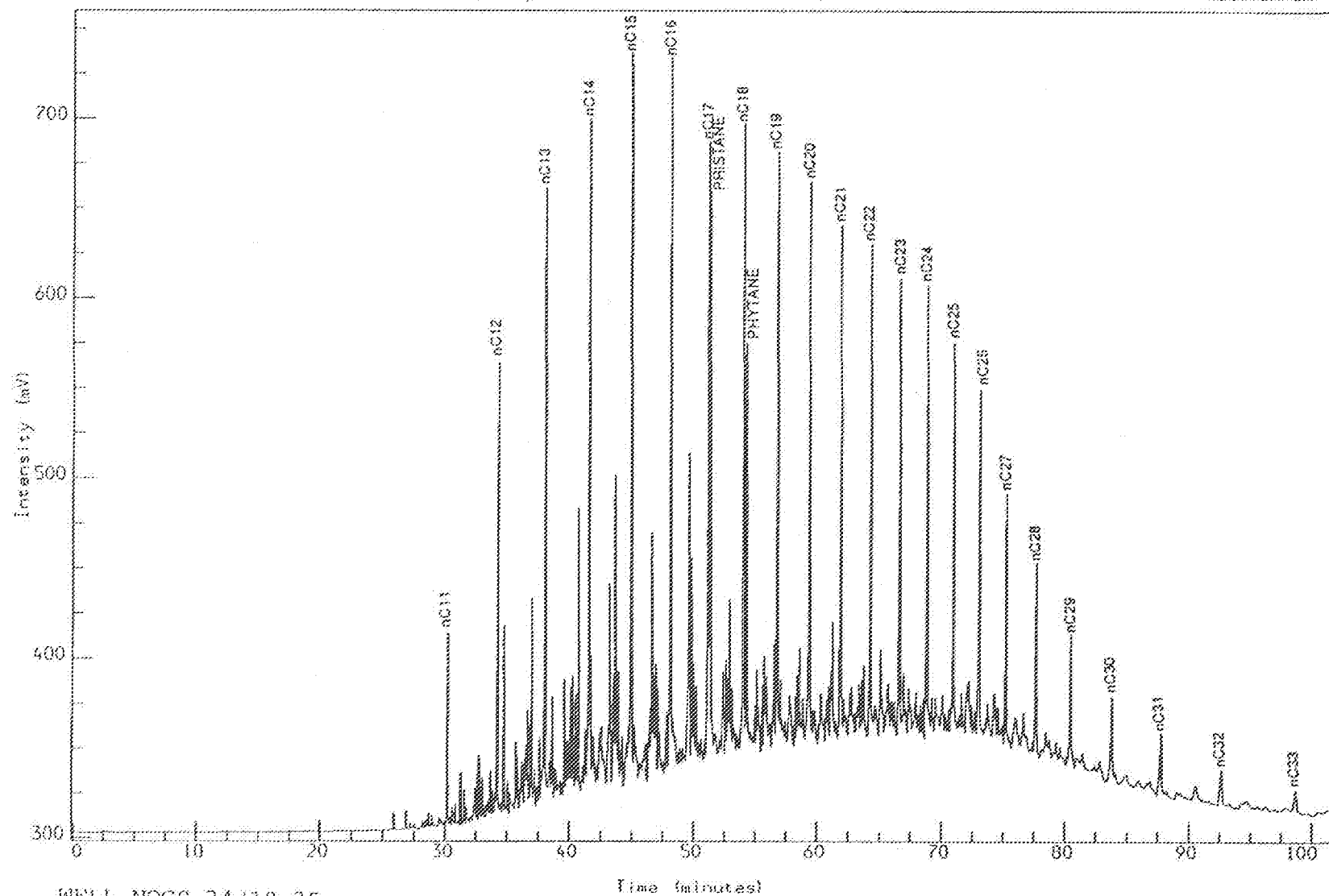
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GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0341035,1,1.

Multichrom



WELL NOCS 34/10-35
OIL IN MUD
WHOLE OIL GC (FID)

Reported on 16-SEP-1992 at 09:49

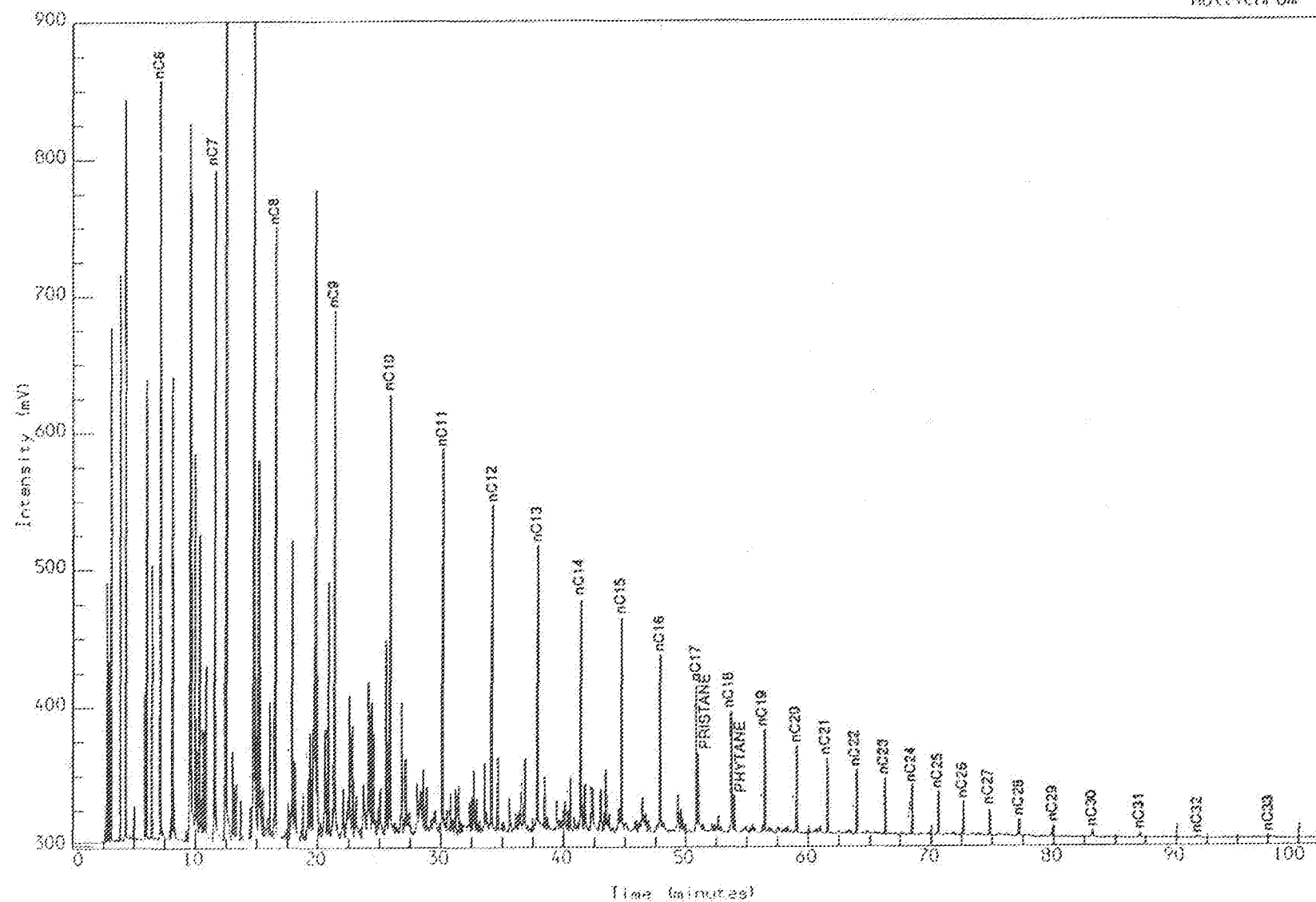
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410351.1.1.

Multichrom



WELL NOCB 34/10-35 DST.1
WHOLE DIL GC (FID)

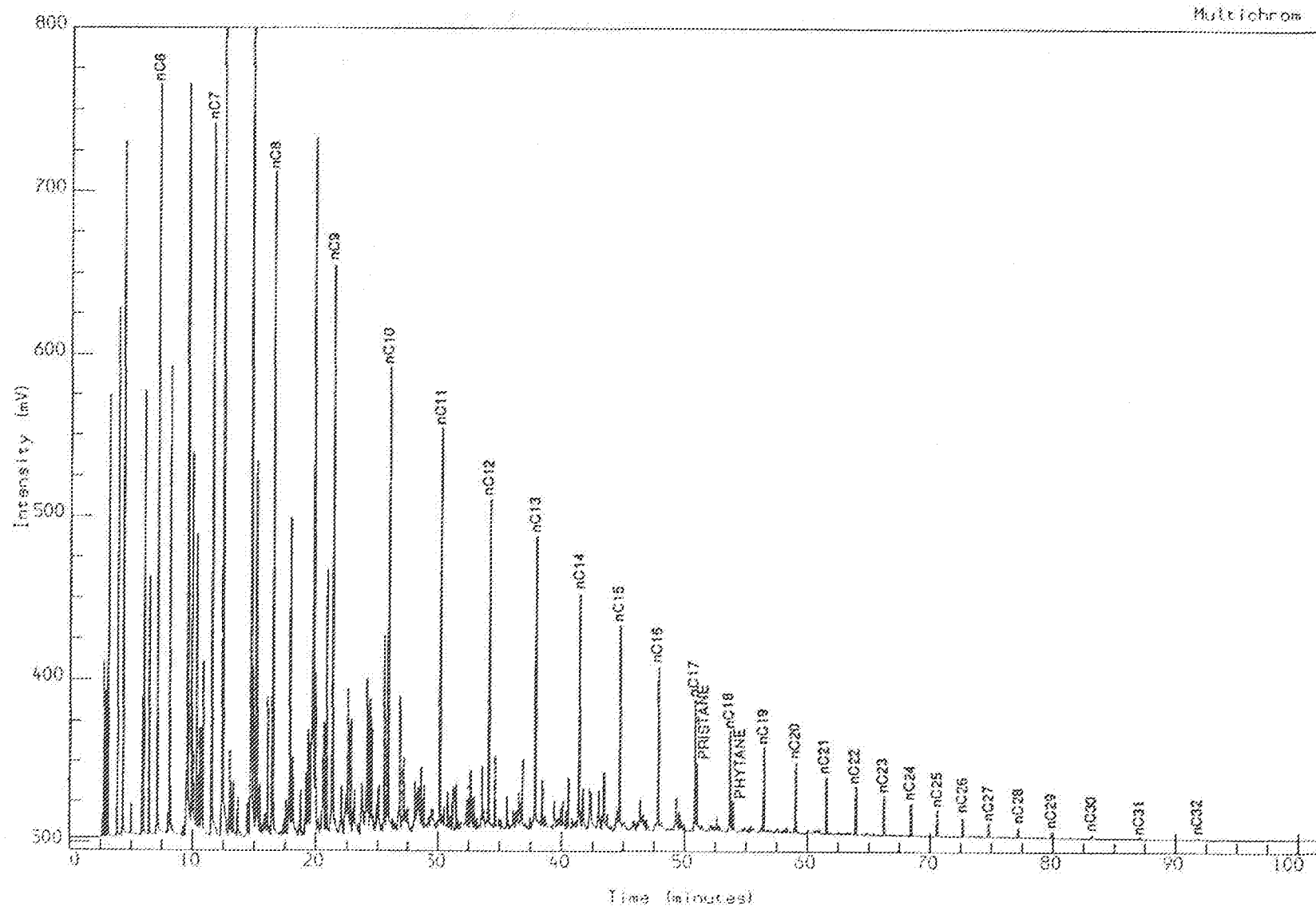
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Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410352.1.1.



WELL NOCS 34/10-35 DSF.2
WHOLE OIL GC (FID)

Reported on 25-SEP-1992 at 15:03

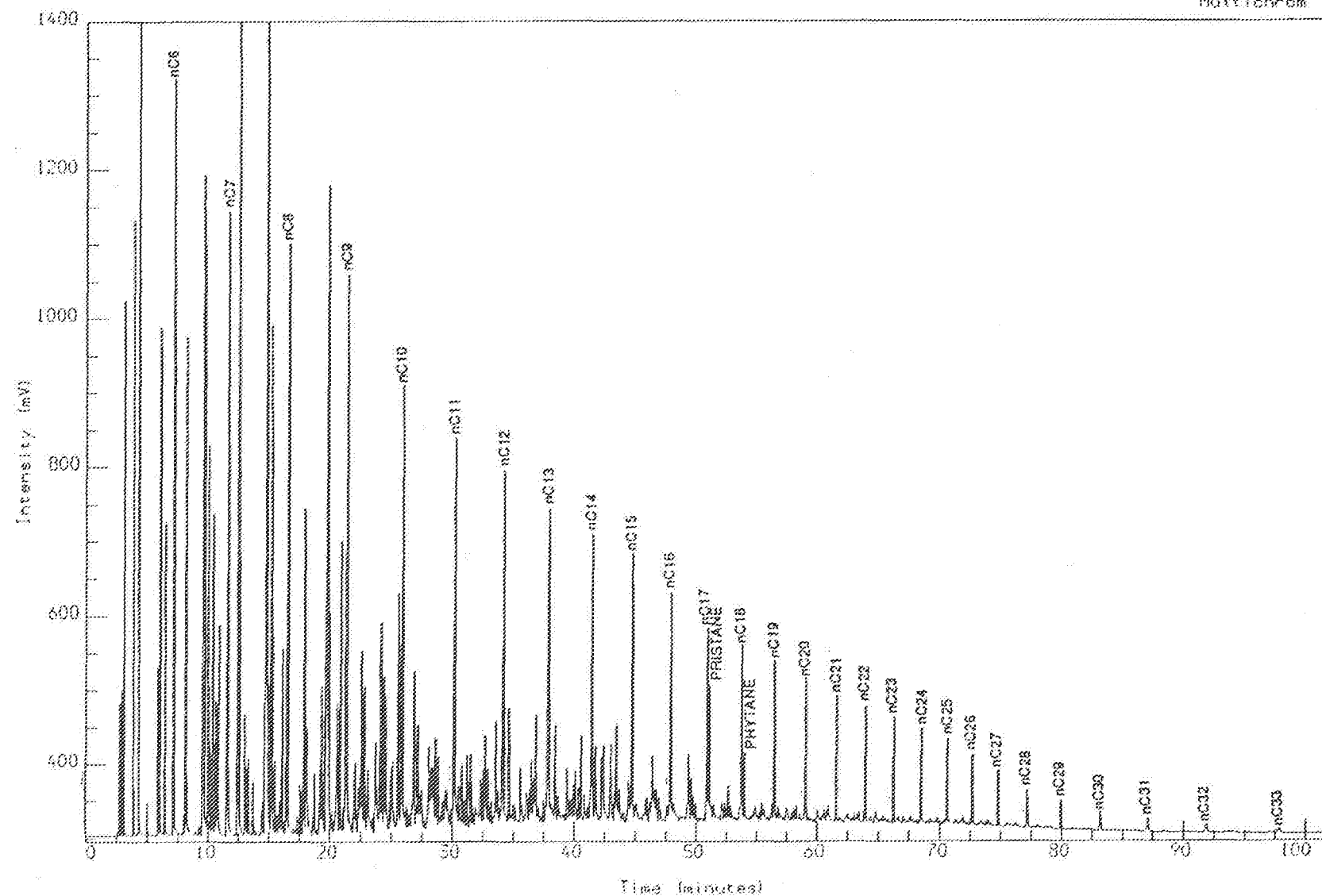
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03410353.1.1.

Multichrom



WELL NOC6 34/10-35 DST.3
WHOLE OIL GC (FID)

Reported on 25-SEP-1992 at 15:07

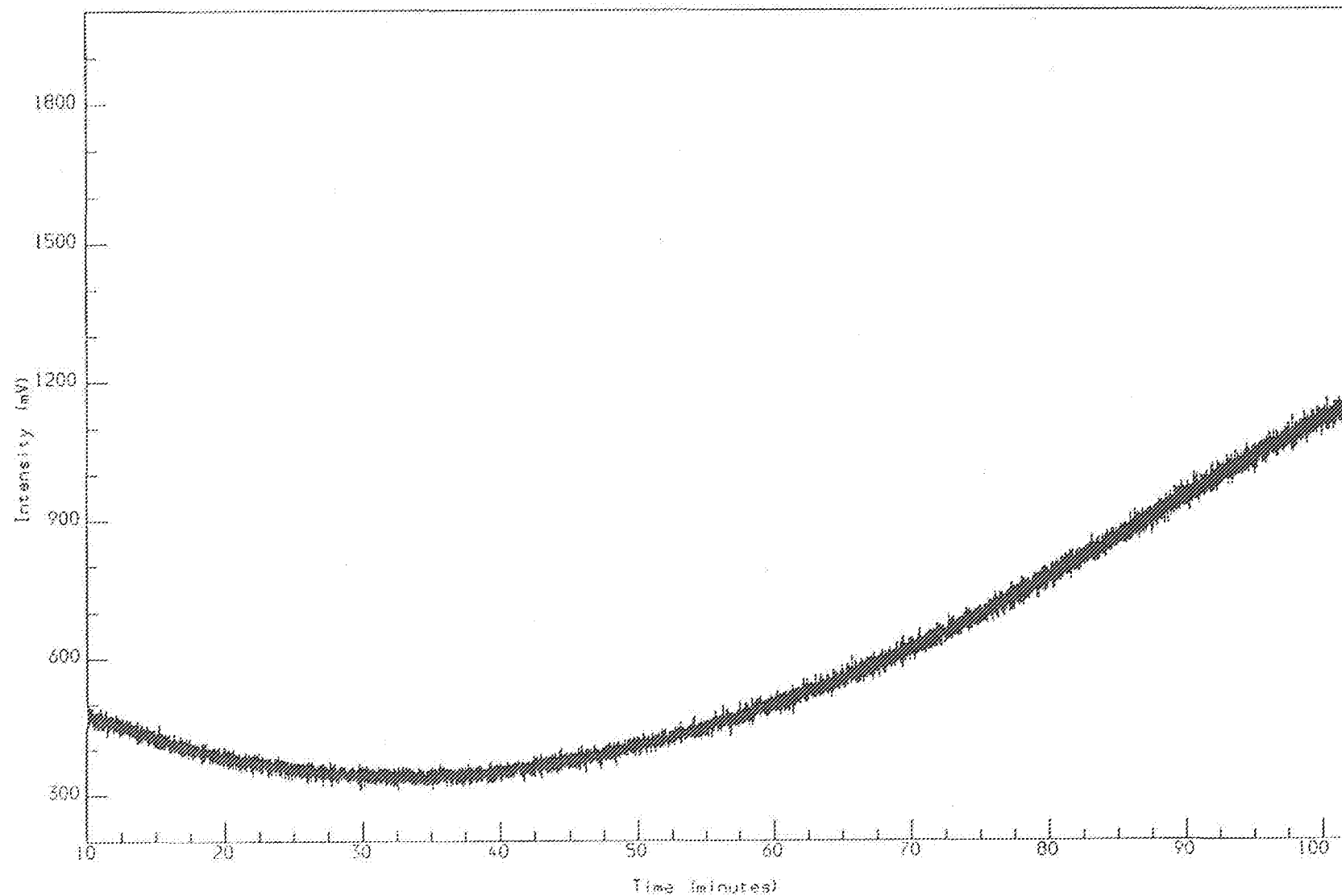
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03410351,1,1.

Multichrom



WELL NOCS 34/10-35 DST.1
WHOLE OIL GC (FPD)

Reported on 25-SEP-1992 at 09:09

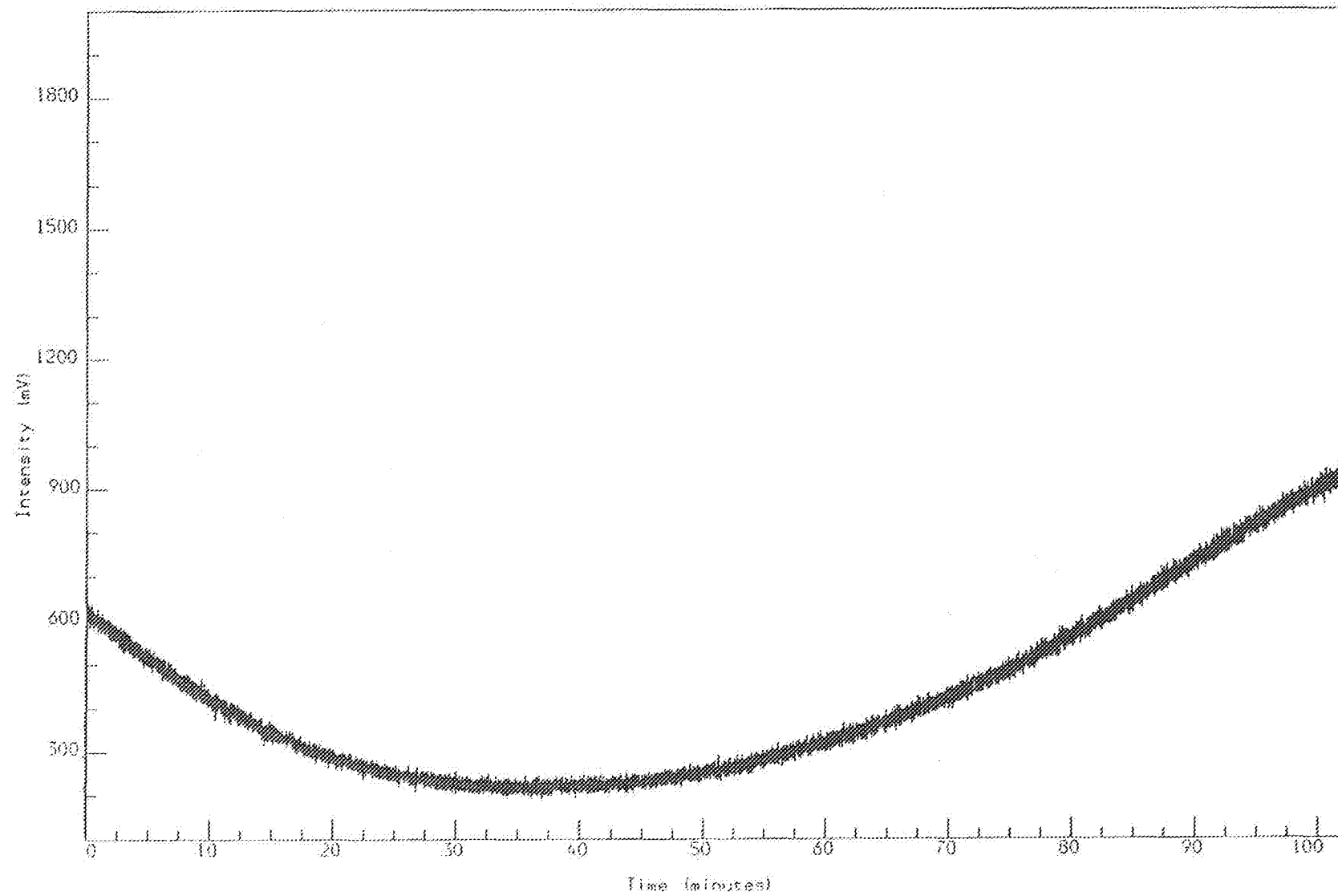
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03410352.1.1.

Multichrom



WELL NODS 34/10-35 DST.2
WHOLE OIL GC (FFD)

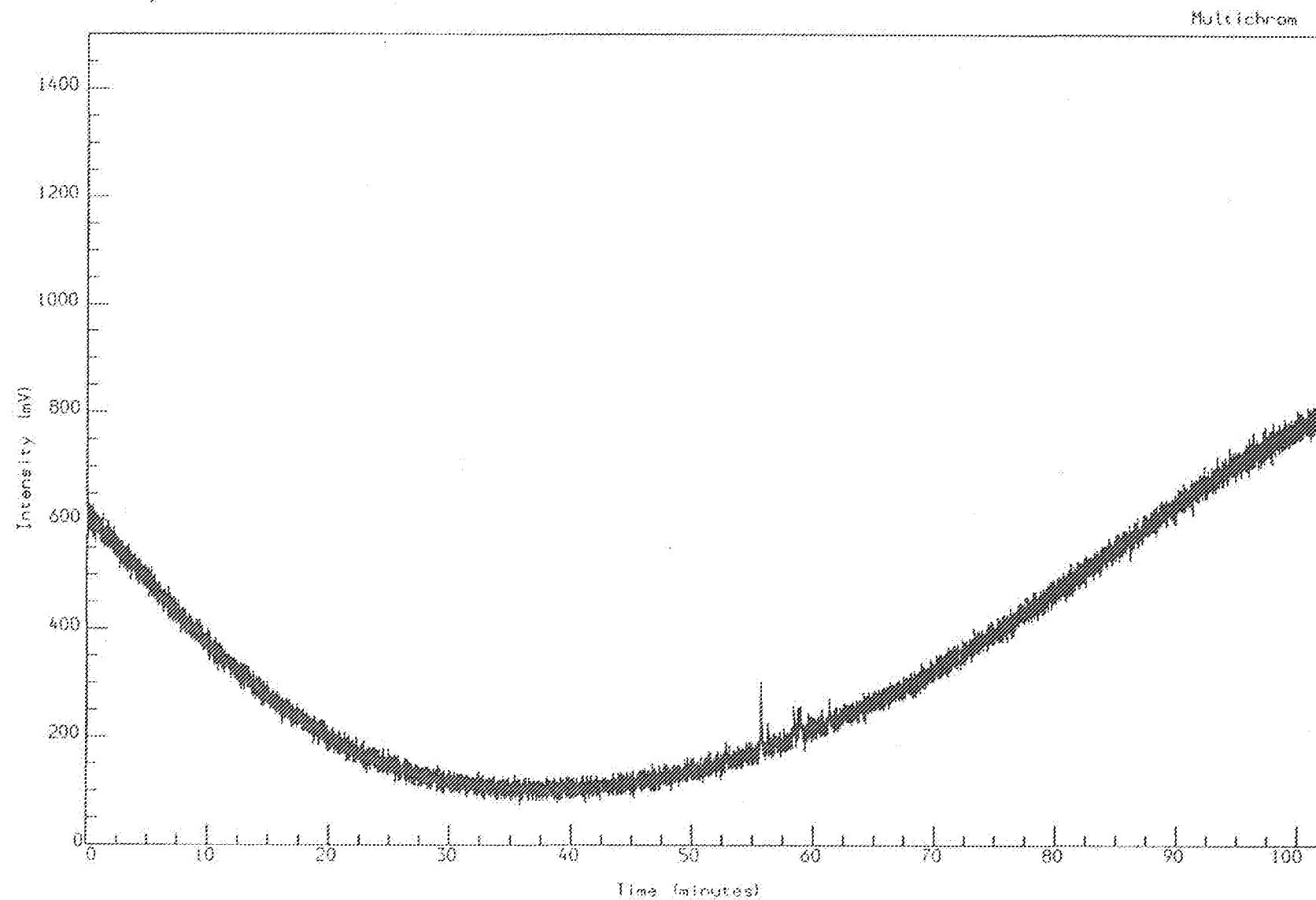
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Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03410353.1.1.



WELL NOCS 34/10-35 DST.3
WHOLE OIL GC (FPD)

Reported on 25-SEP-1992 at 13:57

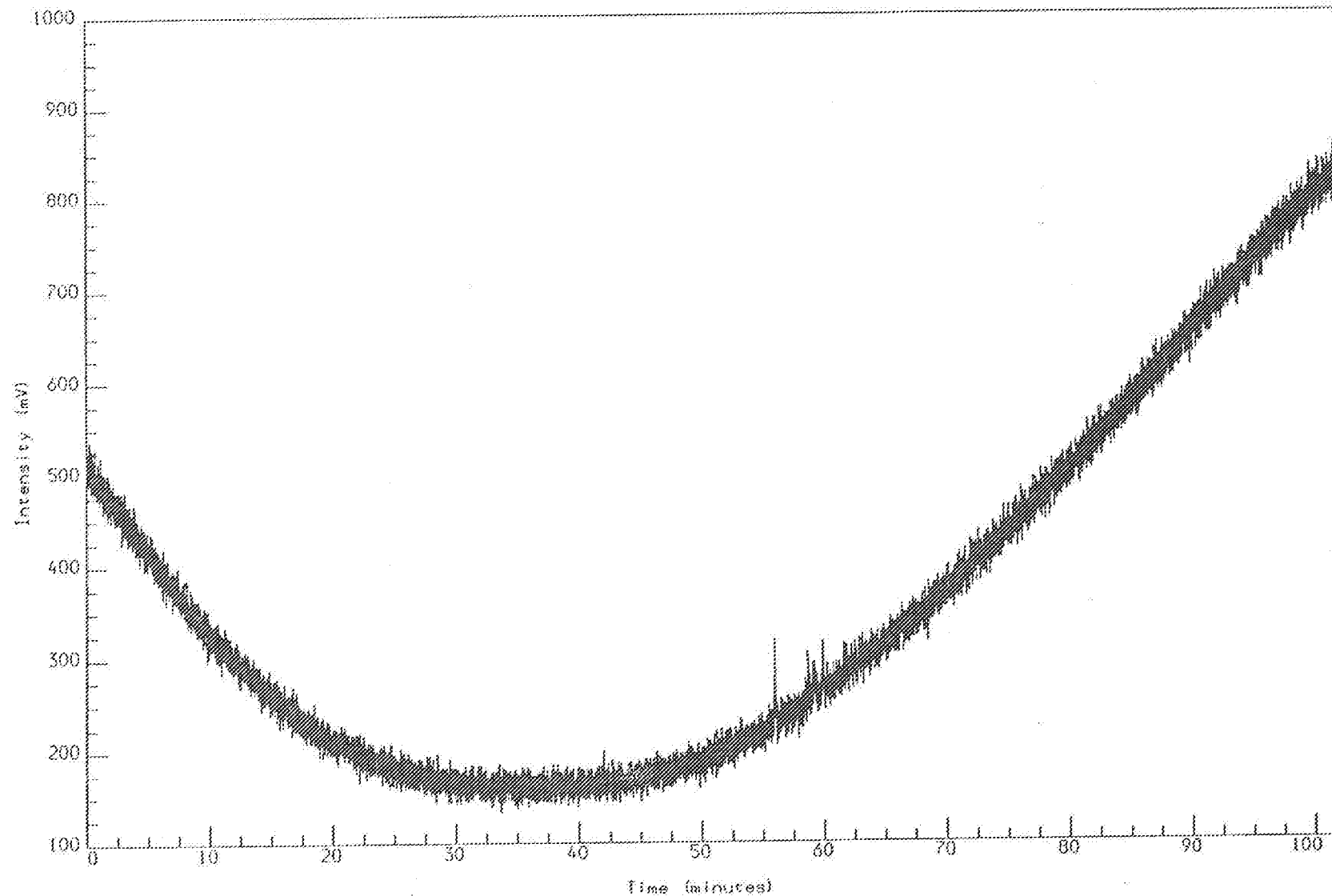
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0341035.1.1.

Multichrom



WELL NDCS 34/10-35
WHOLE OIL GC (FFD)

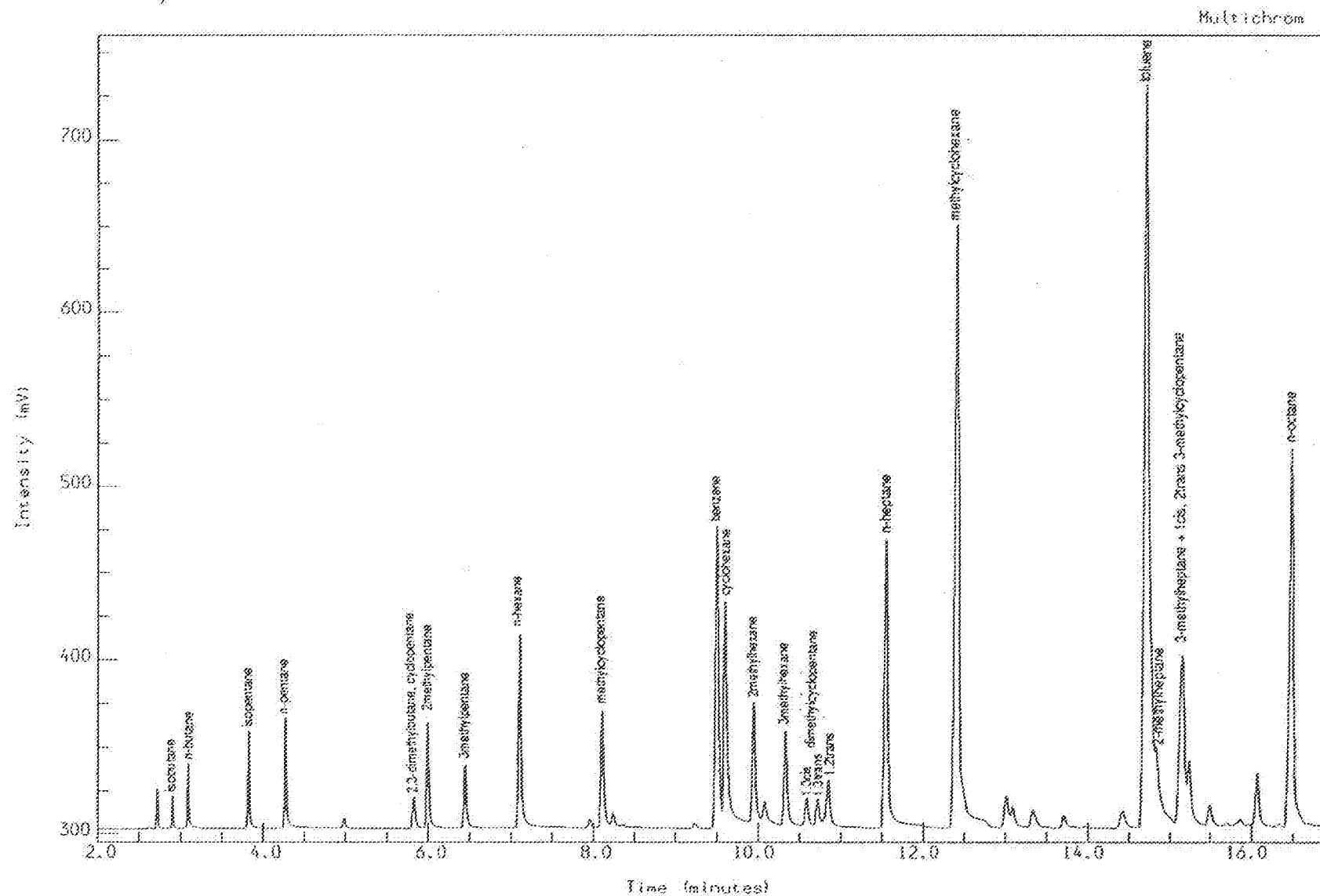
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Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W034140231.1.1.



WELL NOCS 34/10-23 DST.1
WHOLE OIL GC (FID)

Reported on 28-SEP-1992 at 09.23

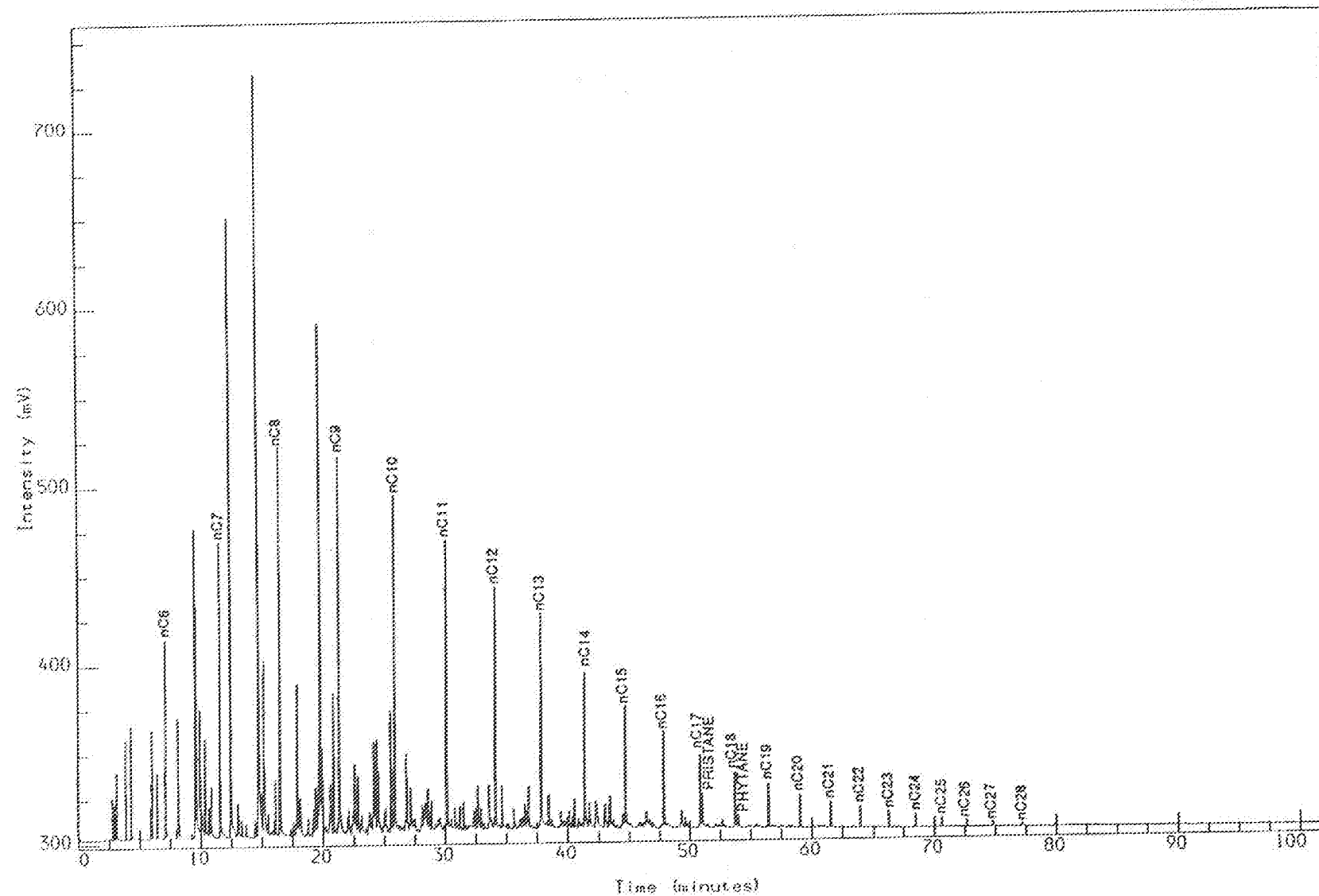
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W034140231.1.1.

Multichrom



WELL NDCS 34/10-23 DSI.1
WHOLE OIL GC (FID)

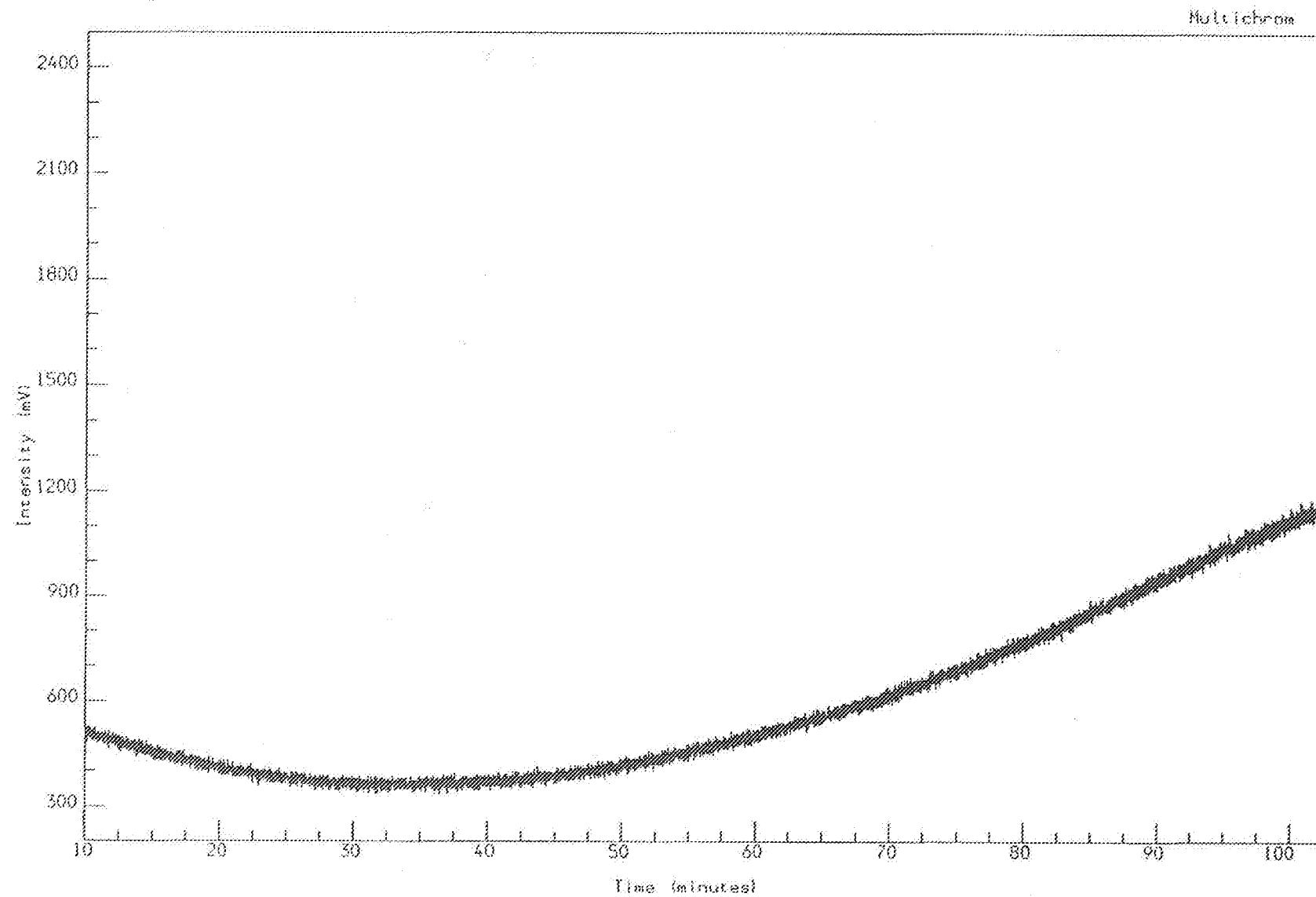
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Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W034140231.1.1.



WELL NOCS 34/10-23 DST.1
WHOLE OIL GC (FPD)

Reported on 24-SEP-1992 at 12:48

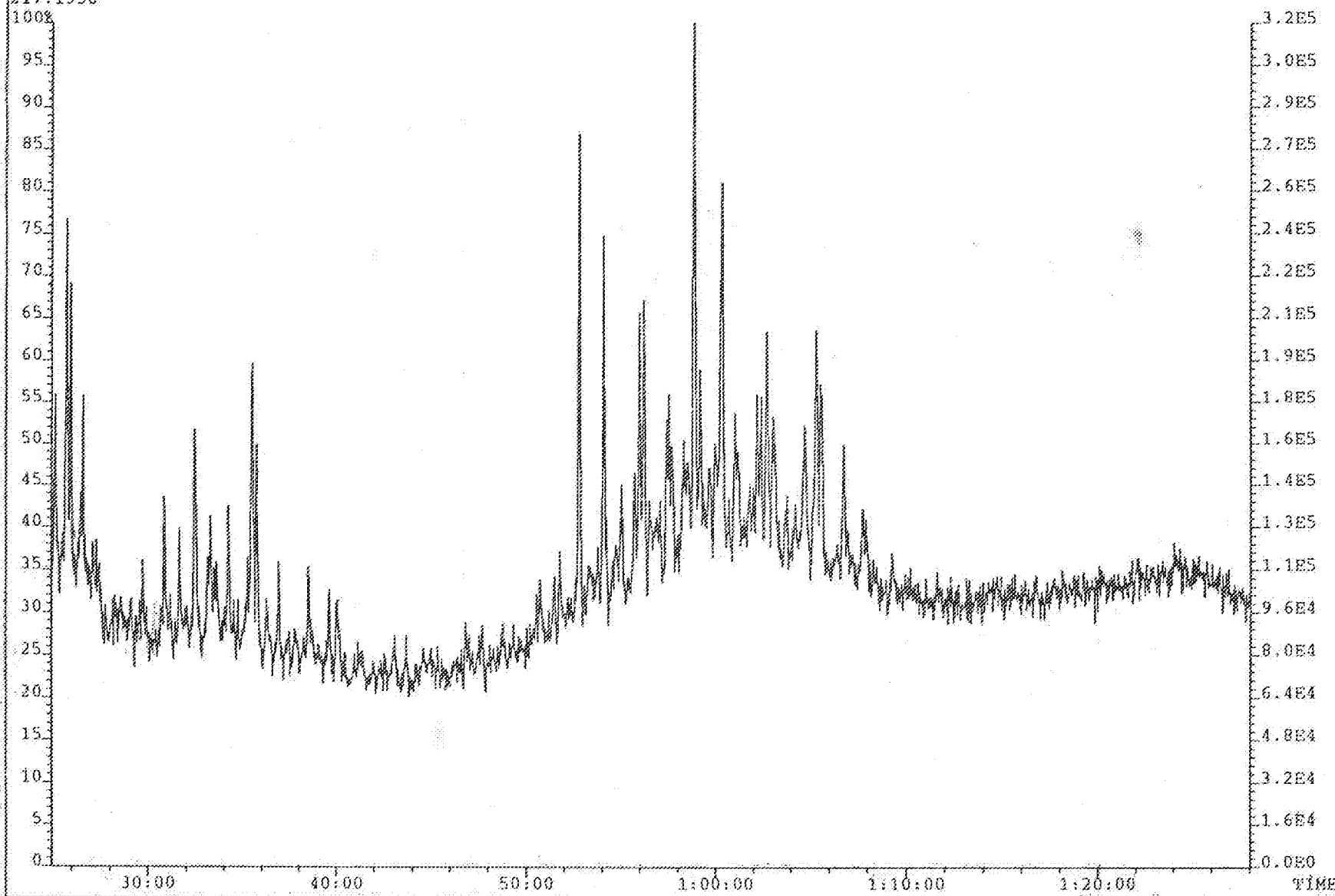
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STAFFSTJ #1-4896 Acq: 2-DEC-92 09:49:15 EI+ Magnet SIR
Sample#1 Text: WELL 34/10-23, DGT1, SATURATED FRACTION
217.1956

Exp: SAT1A



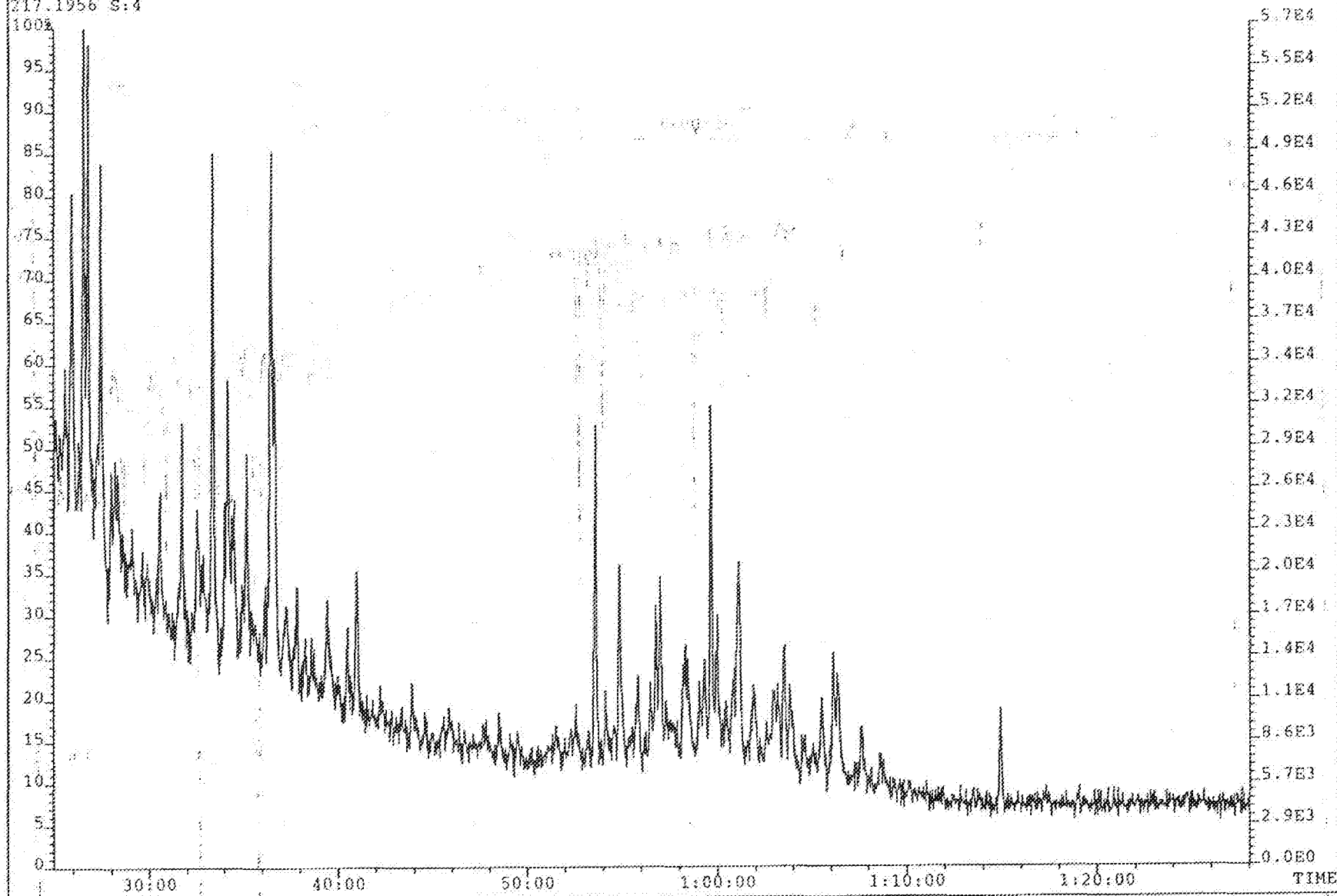
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GECO-PRAKLA

GEOLAB NOR

File: STASAT3 W1-4739 Acq: 23-SEP-1992 13:10:02 El: Magnet SIR
Sample#4 Text: WELL 34/10-23, 4097.43M, SATURATED FRACTION
217.1956 S:4

Exp: SAT1



Schlumberger

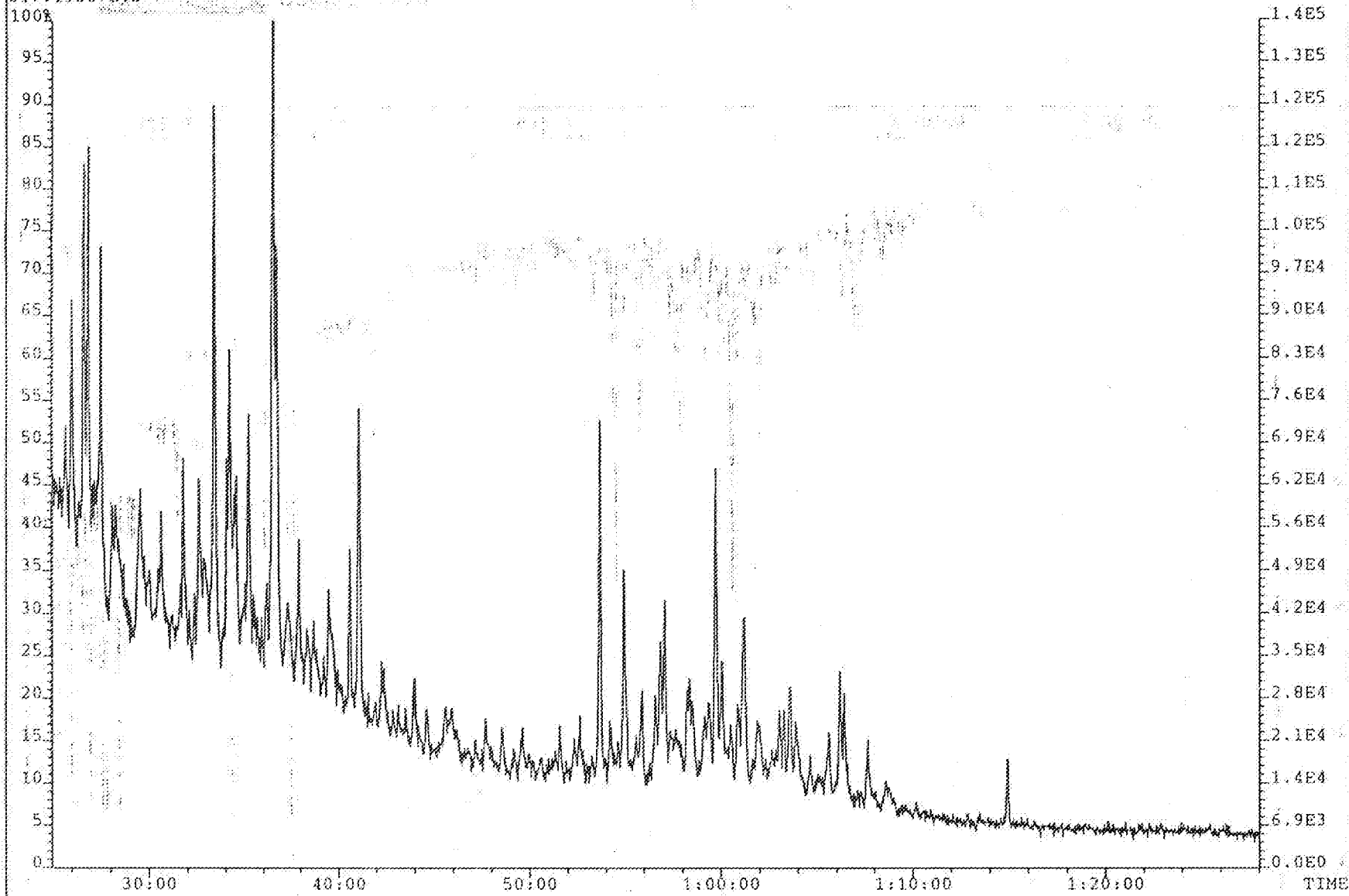
GECCO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4739 Acq:23-SEP-1992 13:30:02 E14 Magnet SIR
Sample#3 Text:WELL 34/10-23, 4084.91M, SATURATED FRACTION
217.1956 S:3

Exp:SAT1

GEOVEGROB

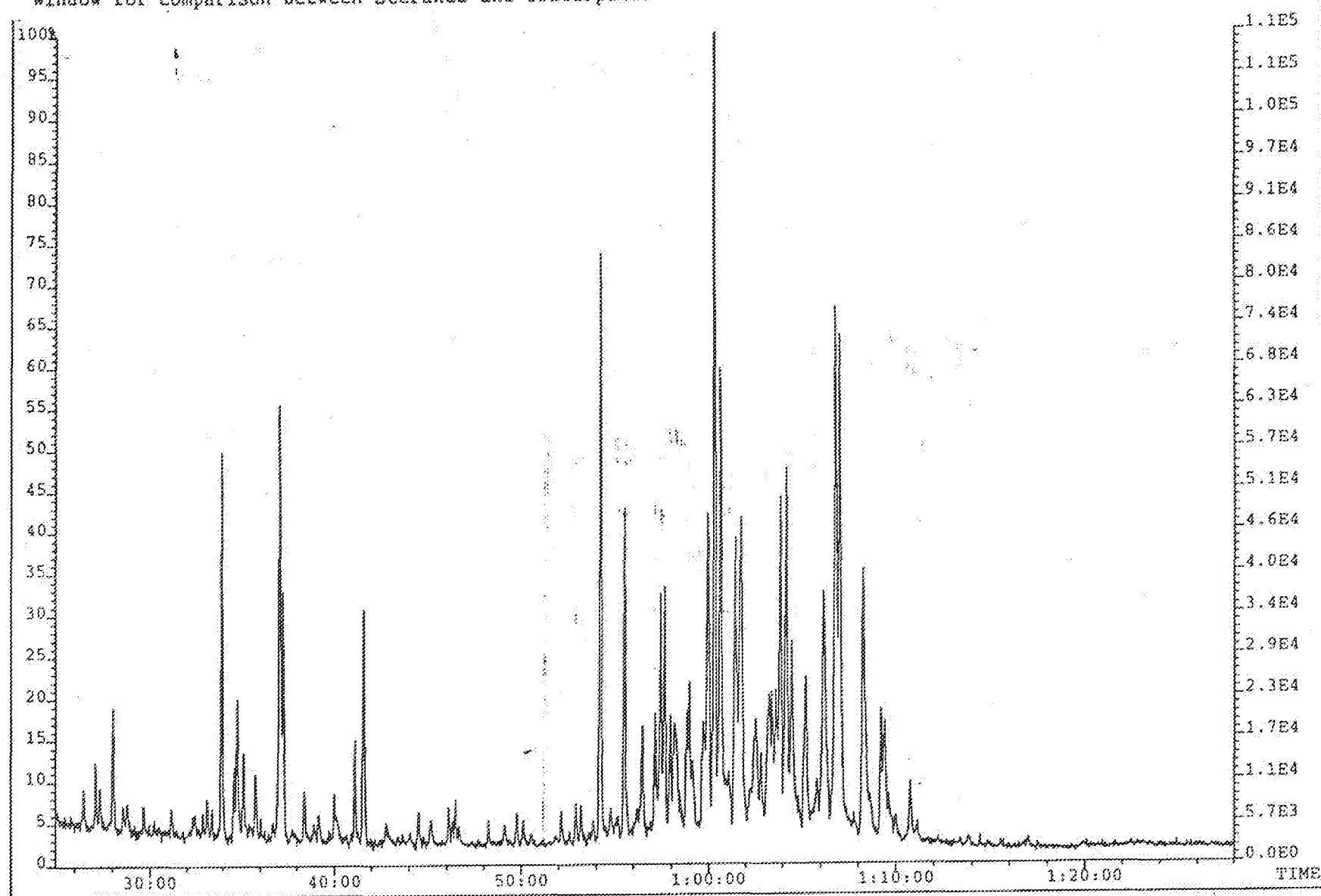


Schlumberger

GECO-PRAKLA

GEO LAB NOR

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



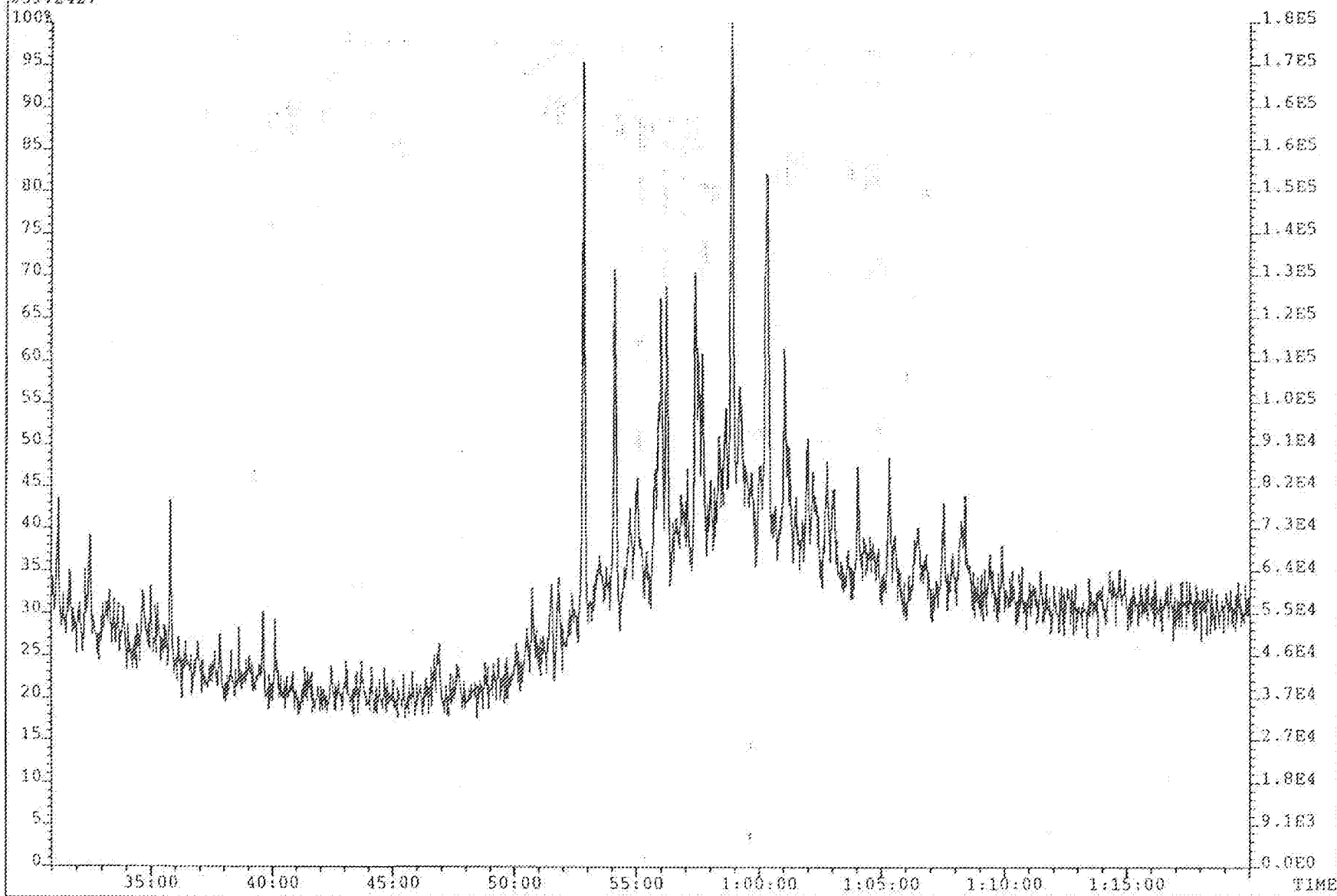
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATST3 #1-4896 Acq: 2-DEC-93 09:49:15 EI+ Magnet SIR
Sample#1 Text: WELL 34/10-23, DST1, SATURATED FRACTION
259.2427

Exp: SAT1A



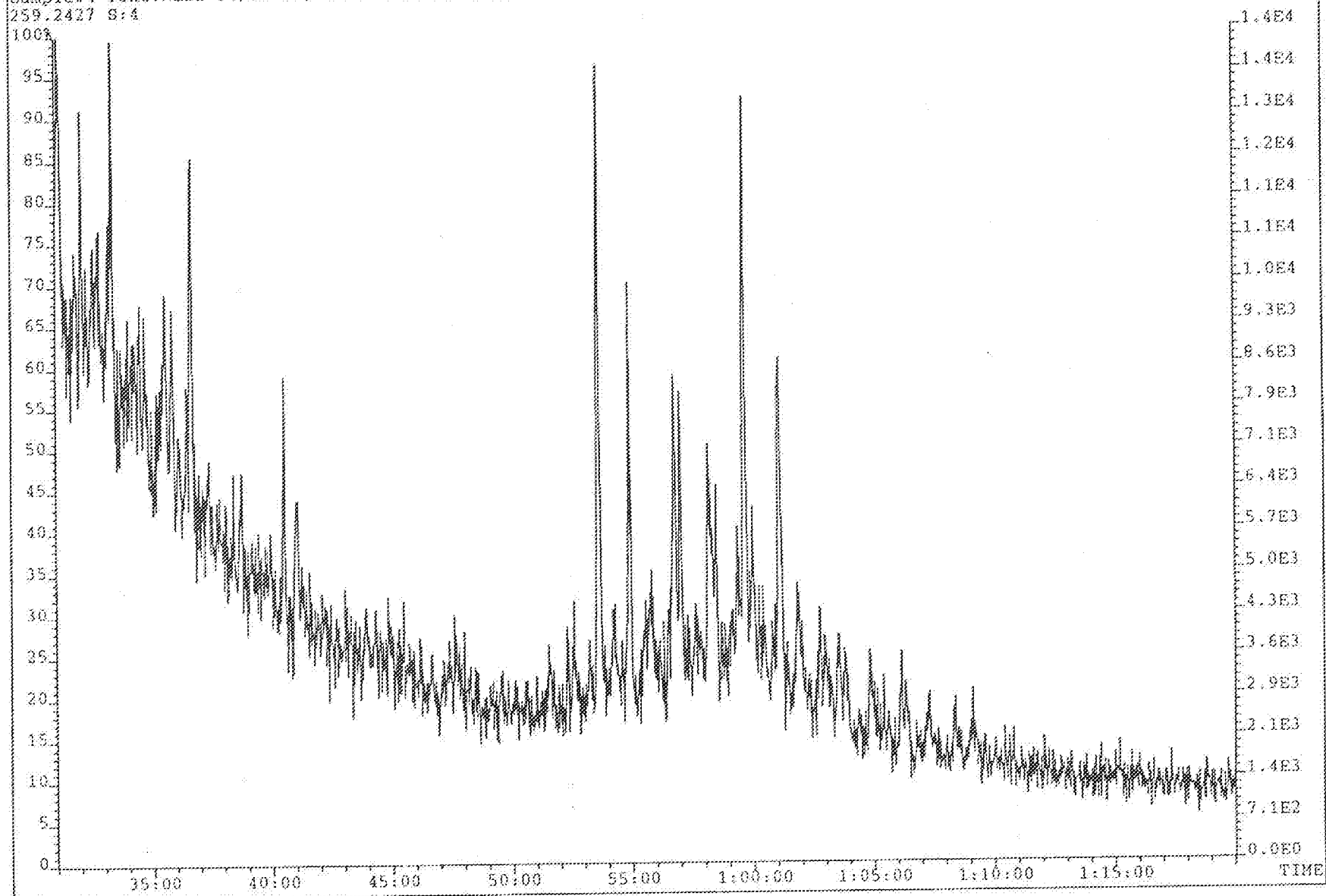
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4739 Acq:23-SEP-1992 13:30:02 EI+ Magnet SIR
Sample#4 Text:WELL 34/10-23, 4097.42M, SATURATED FRACTION
259.2427 S:4

Exp:SAT1



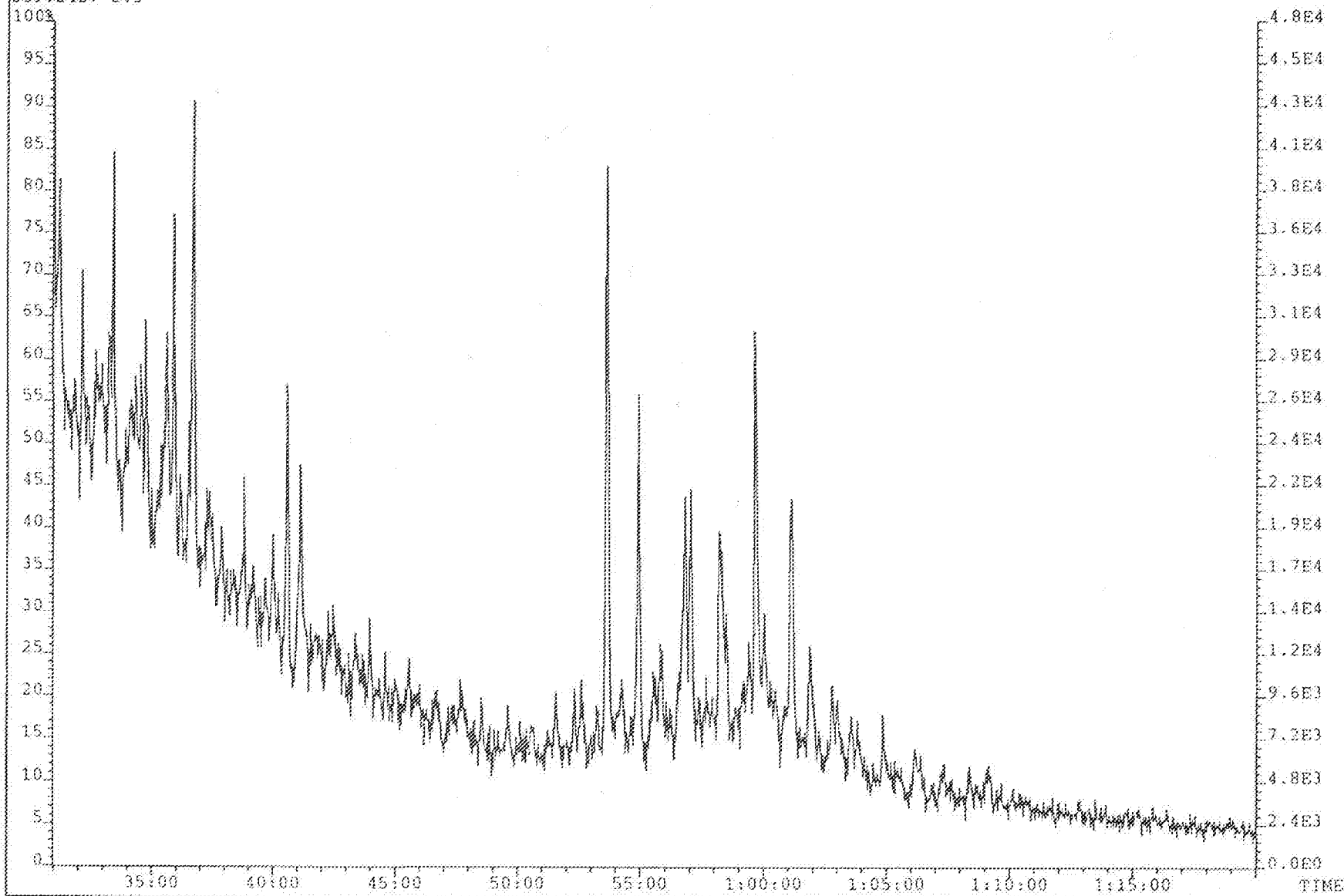
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:21-SEP-1983 13:30:02 SI: Magnet SIR
Sample#3 Text:WELL 34/10-23, 4084.91M, SATURATED FRACTION
259.2427 S:3

Exp:SAT1

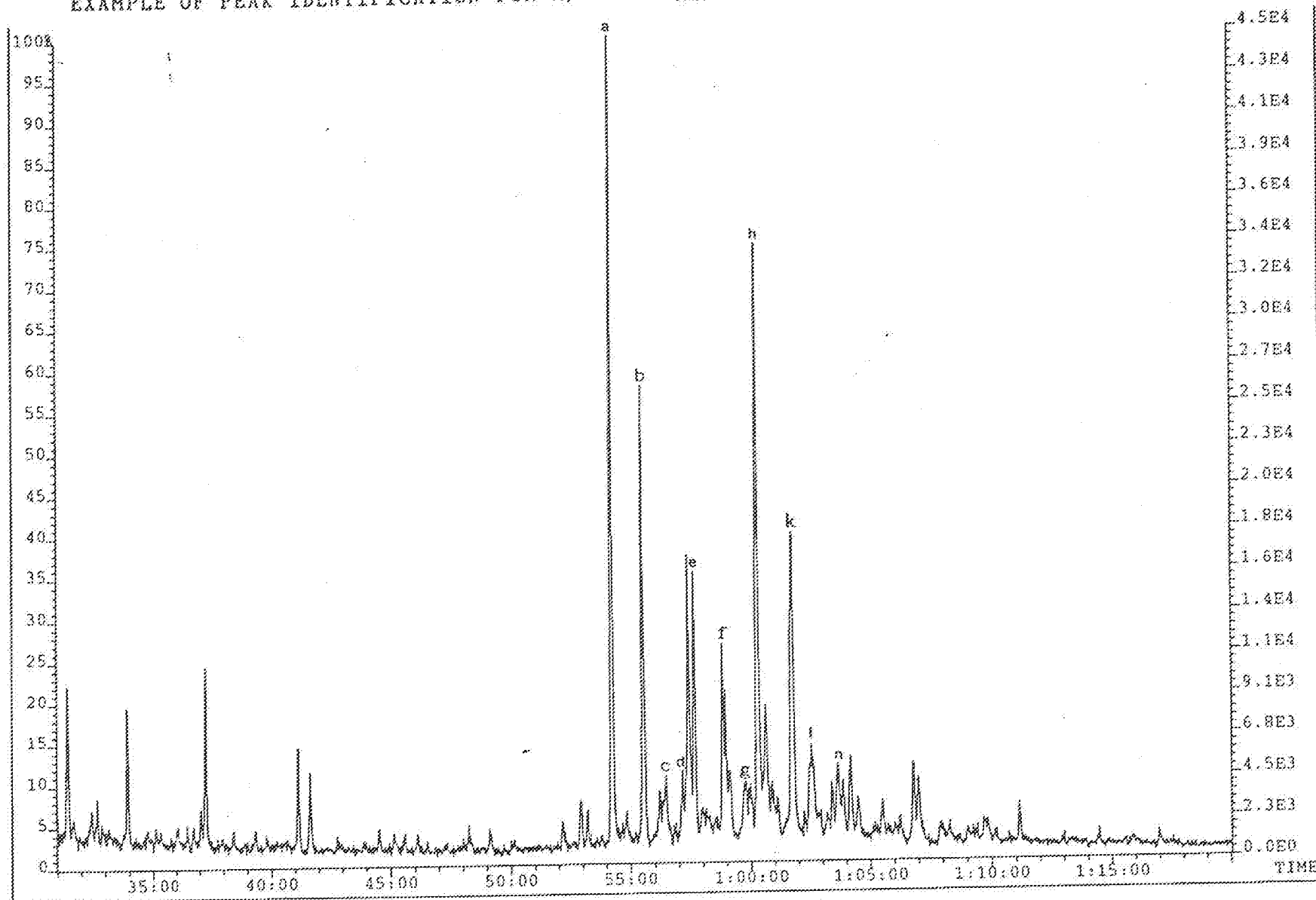


Schlumberger

GECO-PRAKLA

GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 259 REARRANGED STERANES



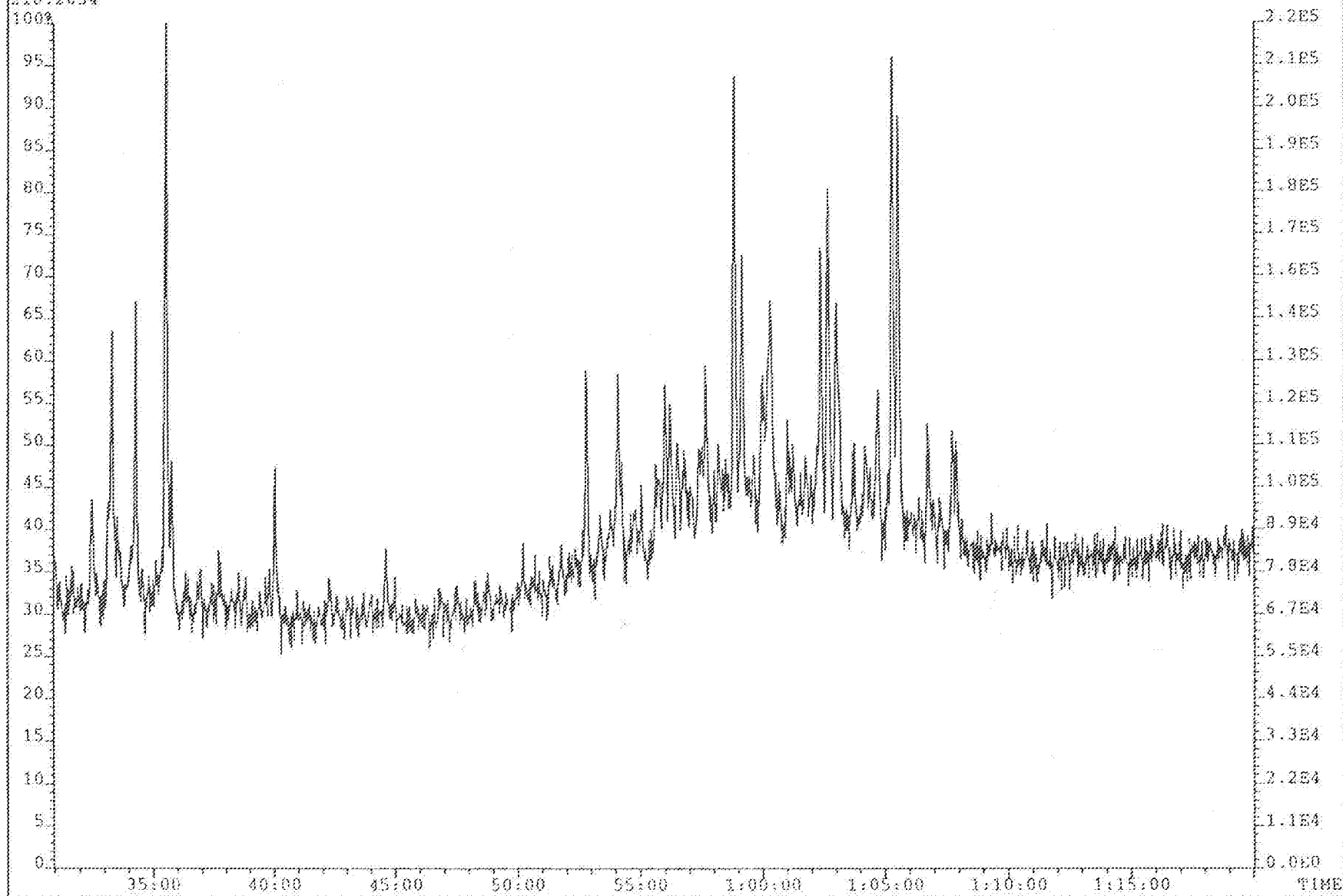
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSTJ #1-4896 Acq: 2-DEC-92 09:49:15 ET: Magnet SIR
Sample#1 Text: WELL 34/10-23, DST1, SATURATED FRACTION
218.2034

Exp: SAT1A



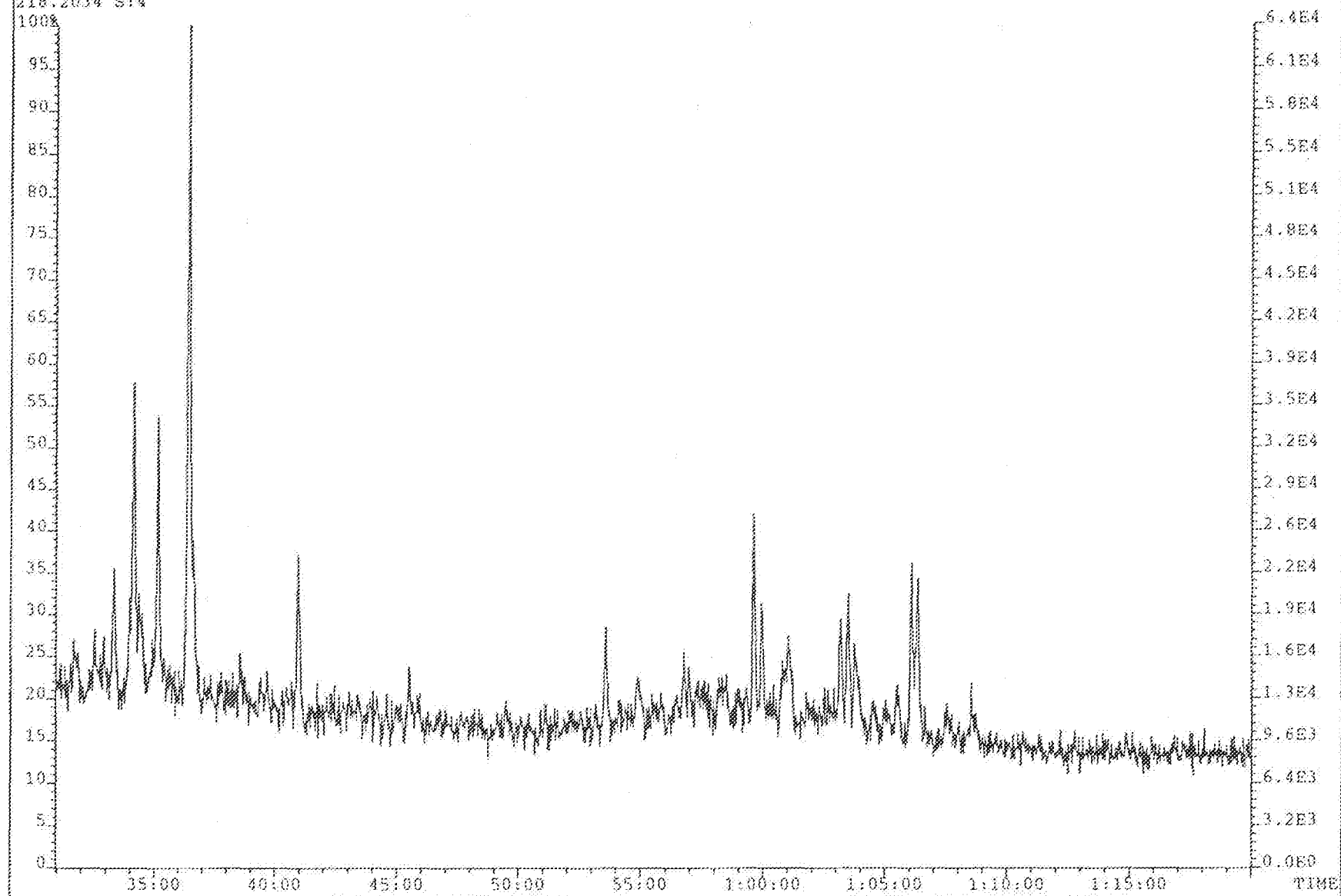
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 RI-4739 Acq:23-SEP-1992 11:10:02 E1: Magnet SIR
Sample#4 Text:WELL 34/10-23, 4097.42M, SATURATED FRACTION
218.2034 S:4

Exp: SAT1



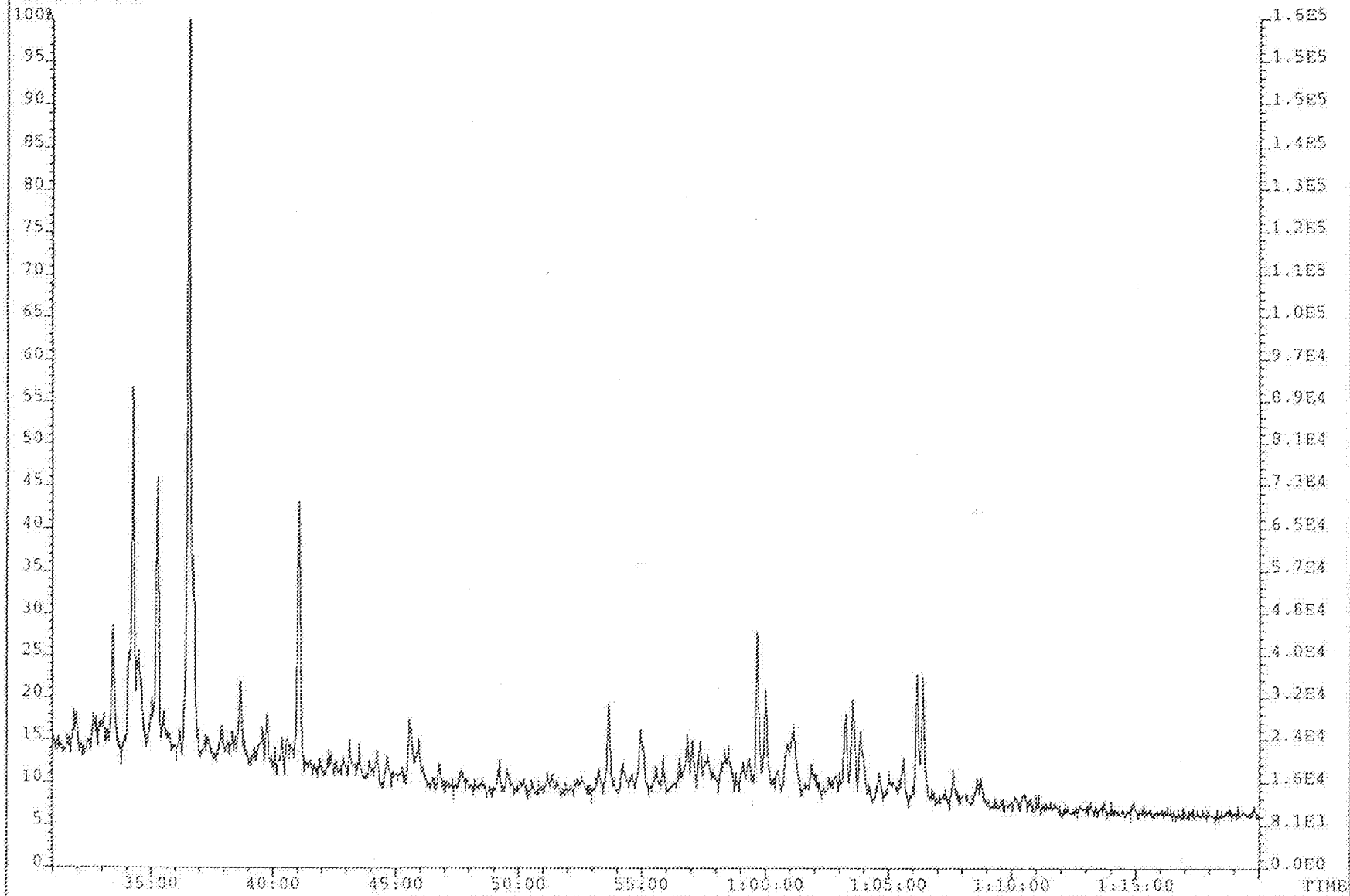
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992 13:30:02 ET+ Magnet SIR
Sample#3 Text:WELL 34/10-23, 4084.91M, SATURATED FRACTION
218.2034 S:3

Exp:SAT1

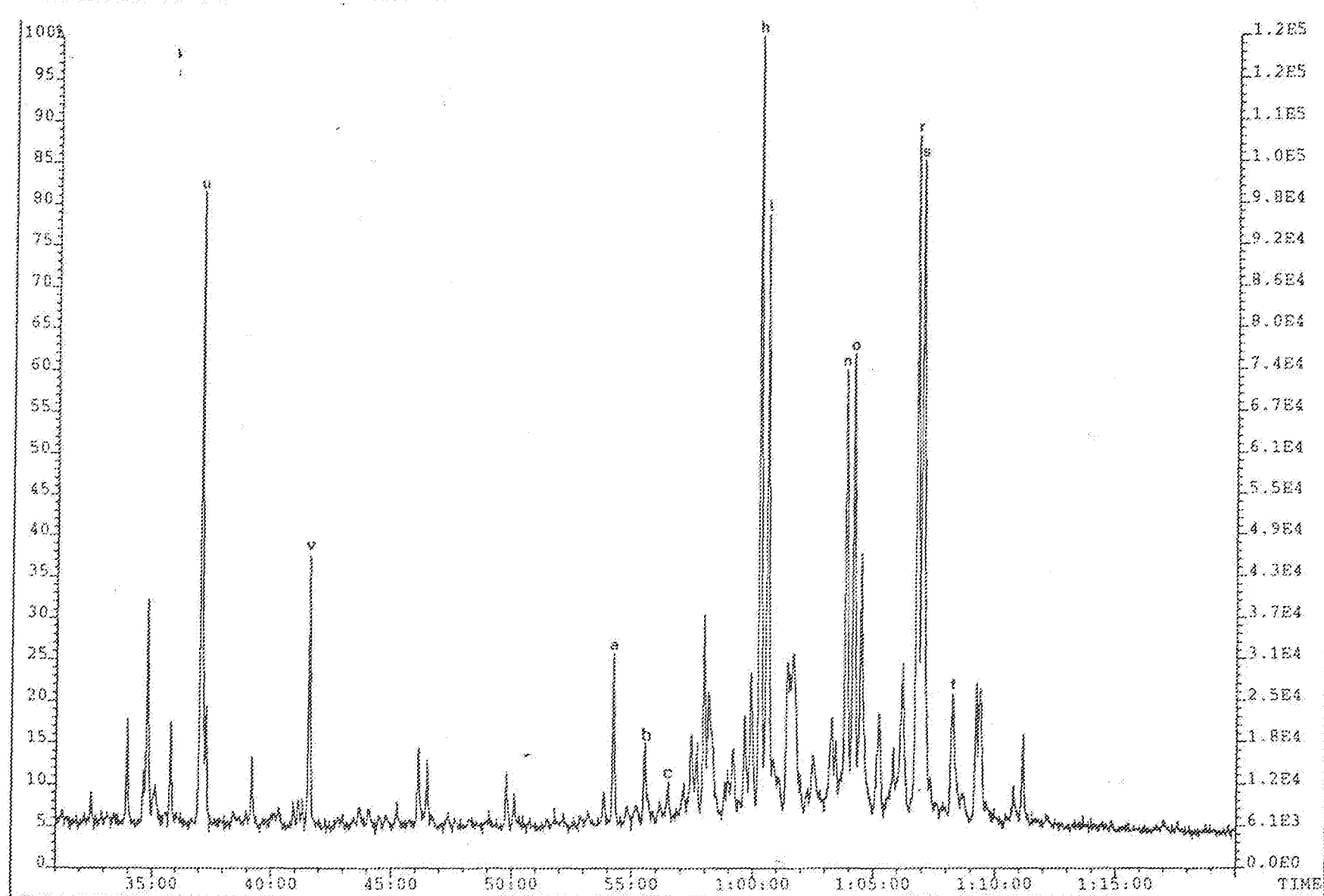


Schlumberger

GECO-PRAKLA

GEOLAB NOR

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



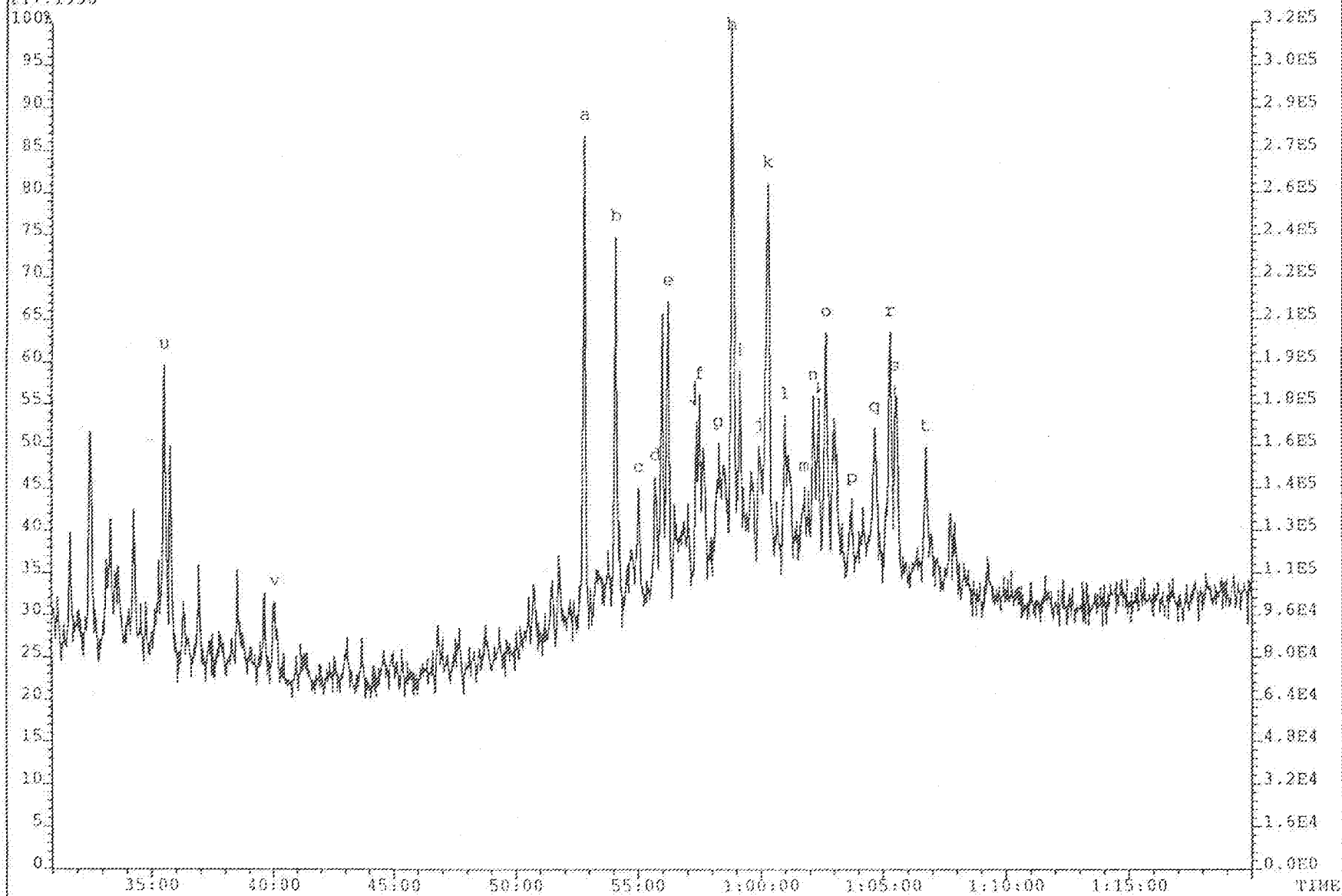
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATTST3 #1-4E96 Acq: 2-DEC-92 09:19:15 E14 Magnet SIR
 Sample#1 Text: WELL 34/10-23, DST1, SATURATED FRACTION
 217.1956

Exp: SAT1A



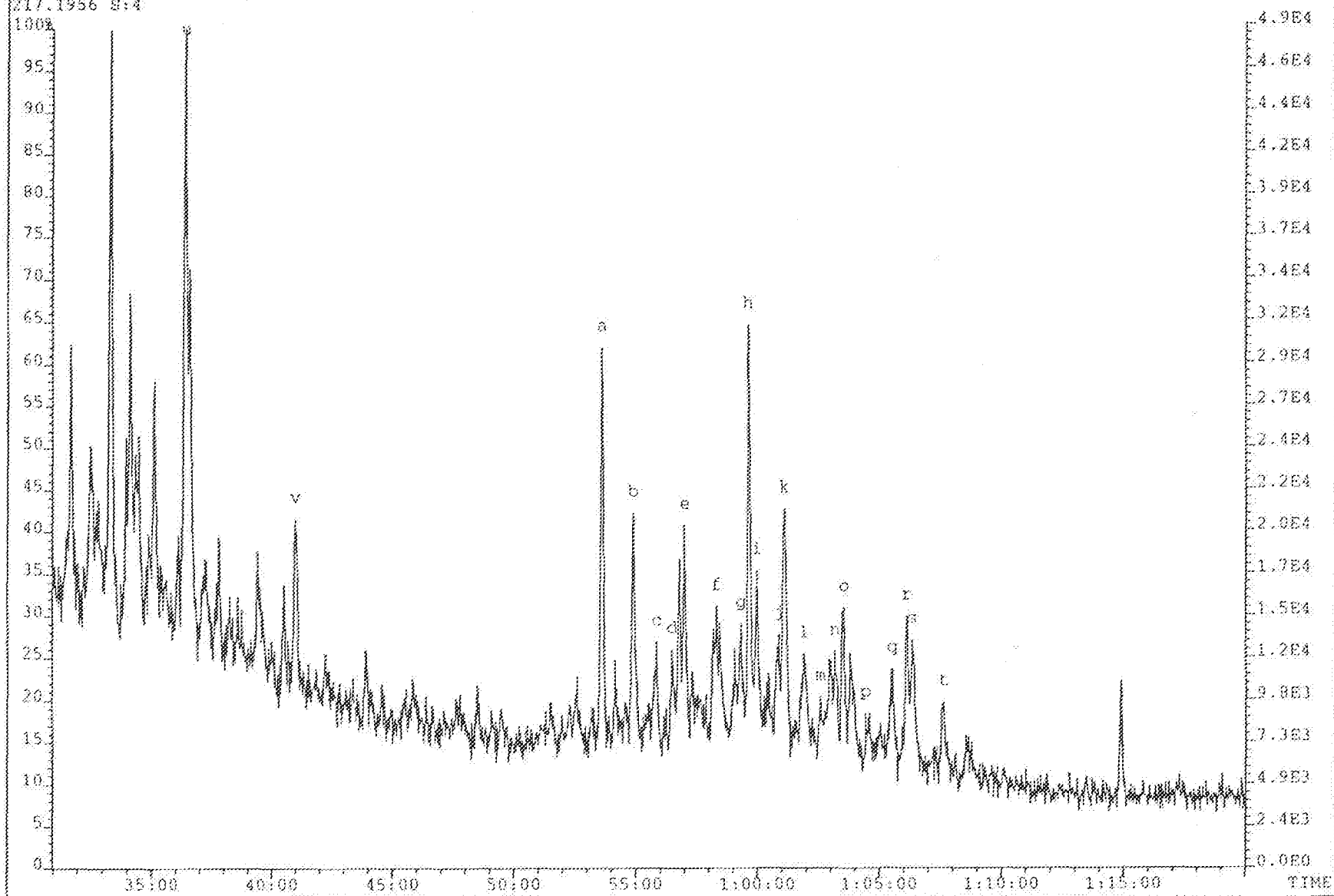
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATGATJ #1-4739 Acq: 23-SEP-1992 8:30:02 EI+ Magnet SIR
 Sample#4 Text: WELL 34/10-23, 4097.42M, SATURATED FRACTION
 217.1956 S:4

Exp: SAT1



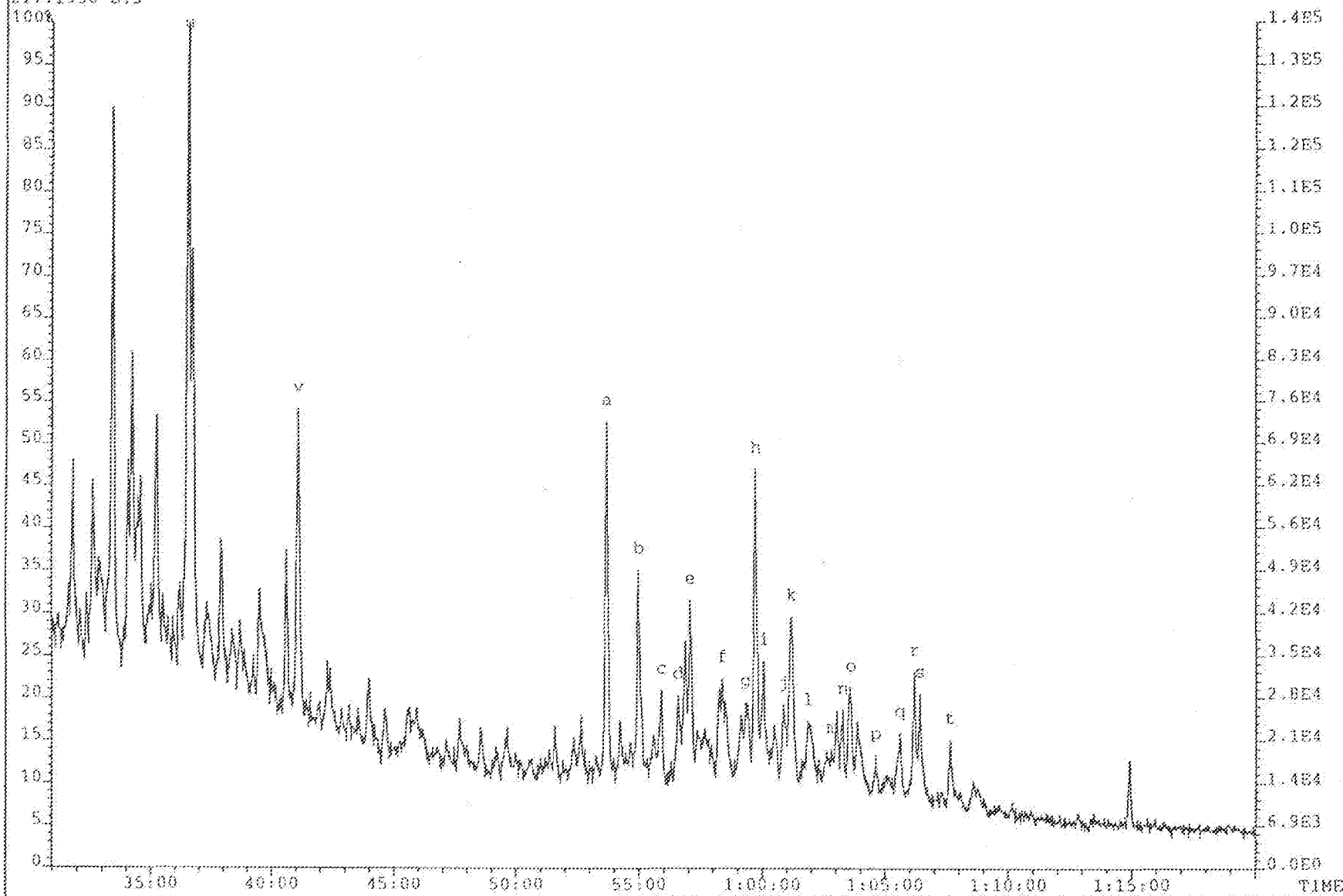
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992 11:30:02 EI+ Magnet SIR
Sample#3 Text:WELL 34/10-23, 4084.91M, SATURATED FRACTION
217.1956 S:3

Exp:SAT1

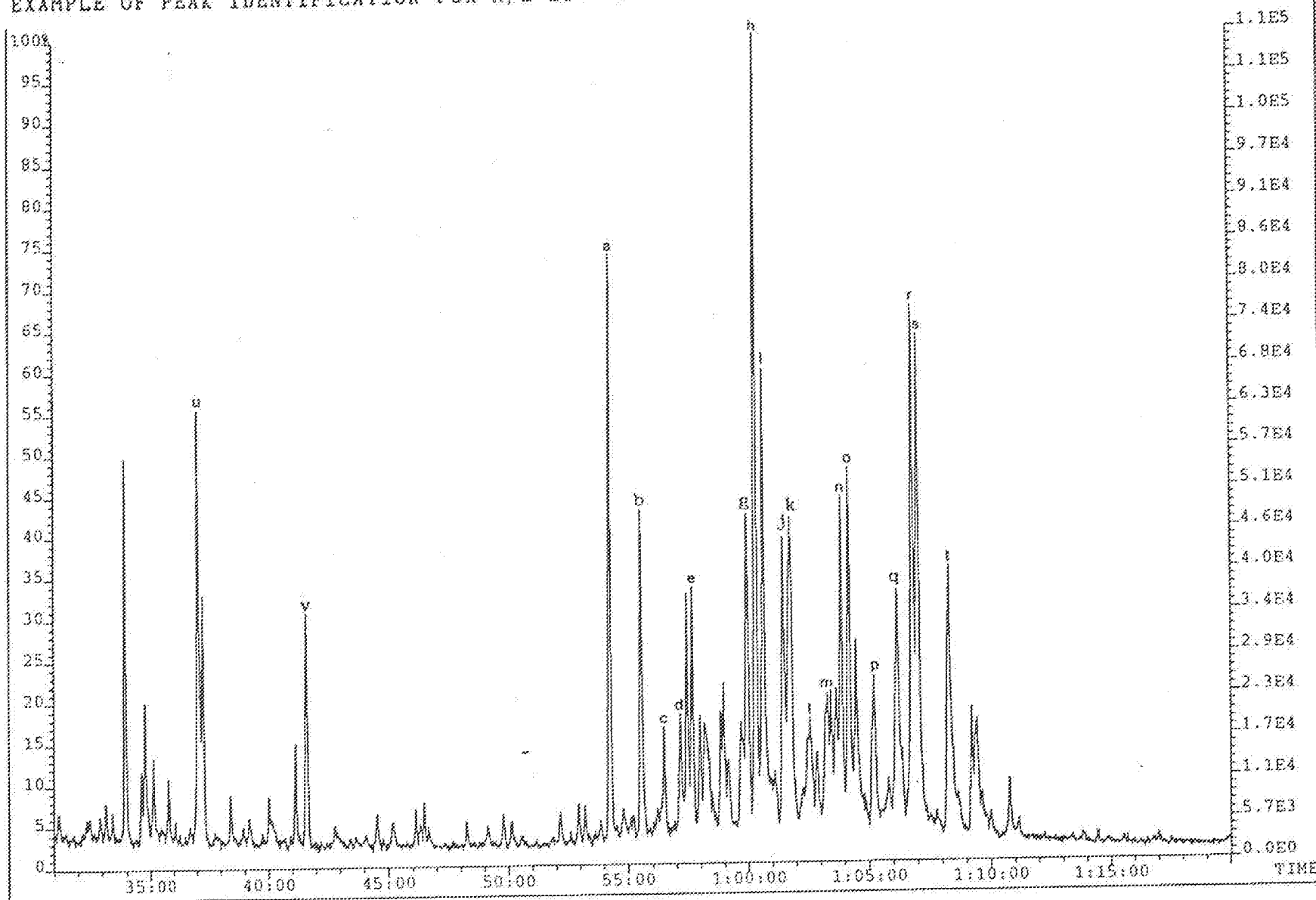


Schlumberger

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GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 217 STERANES



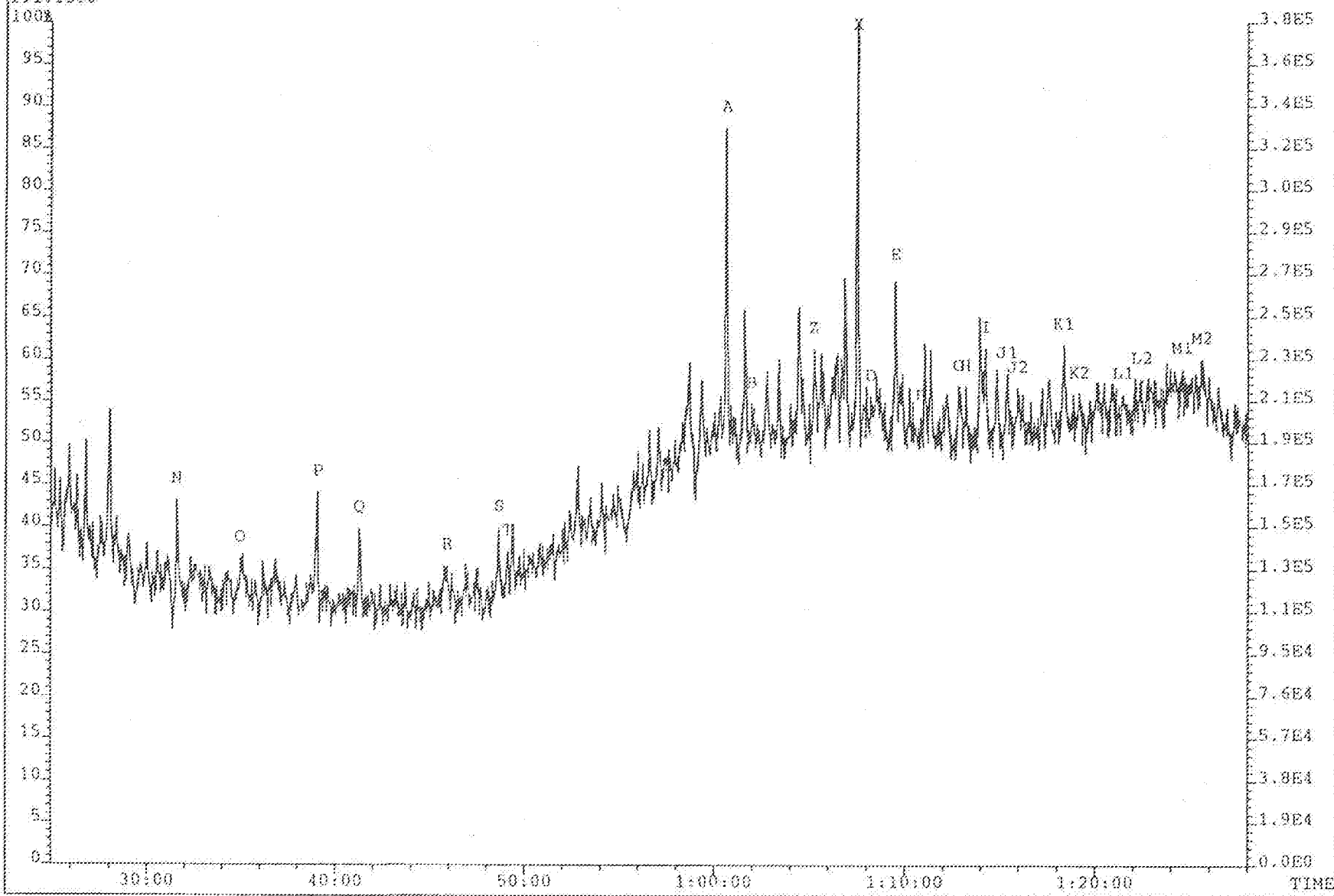
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATTSTJ #1-4896 Acq: 1-DEC-92 09:49:15 EI+ Magnet SIR
 Sample#1 Text: WELL 34/10-23, DST1, SATURATED FRACTION
 191.1800

Exp: SAT1A



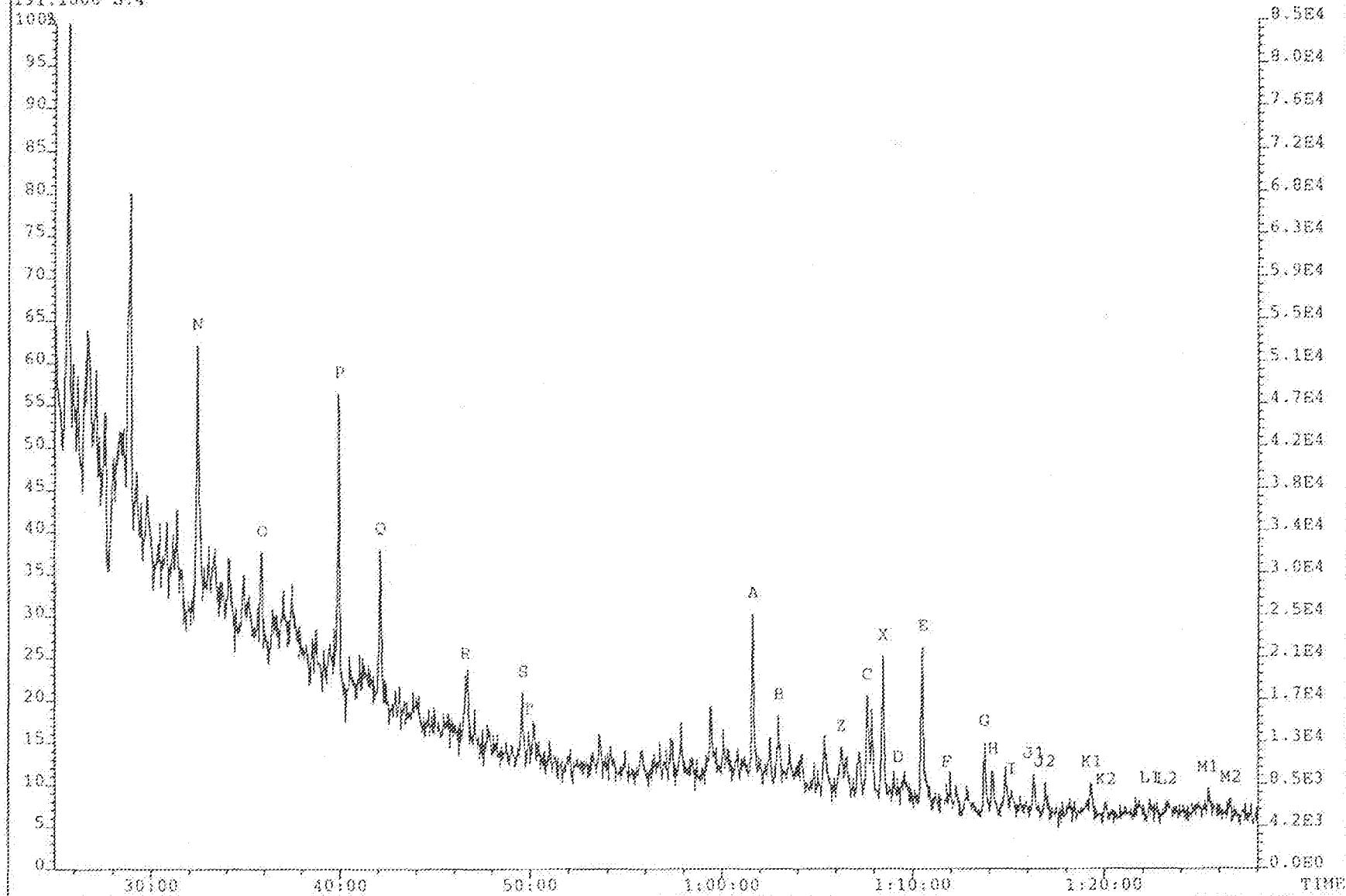
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT3 #1-4719 Acq:23-SEP-1992 11:30:02 EI+ Magnet SIR
 Sample#4 Text:WELL 34/10-23, 4097.42M, SATURATED FRACTION
 191.1800 S:4

Exp:9AT1



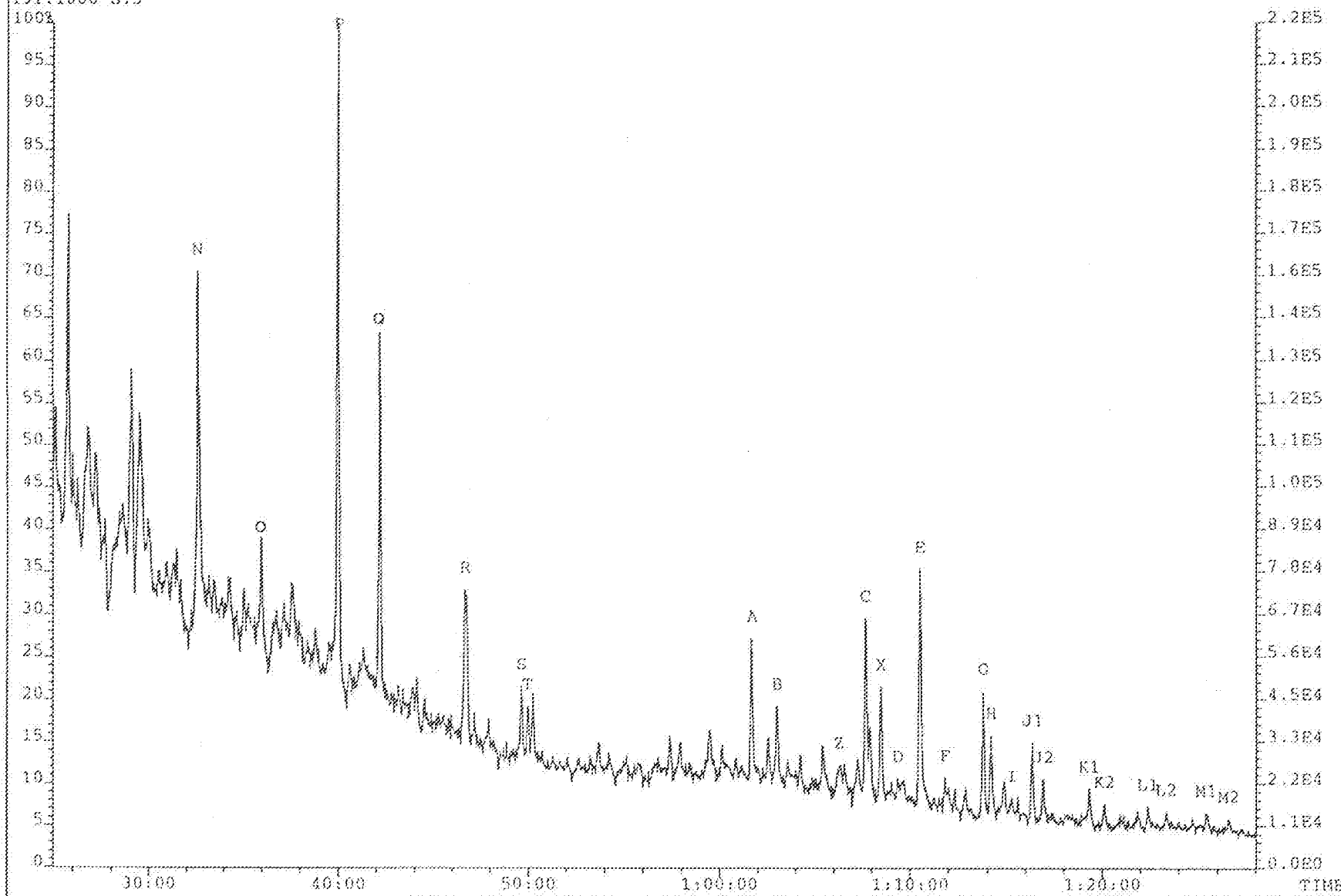
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT1 #1-4739 Acq: 23 SEP 1992 13:38:02 E1+ Magnet SIR
 Sample#3 Text: WELL 34/10-23, 4084.91M, SATURATED FRACTION
 191.1800 S:3

Exp: SAT1

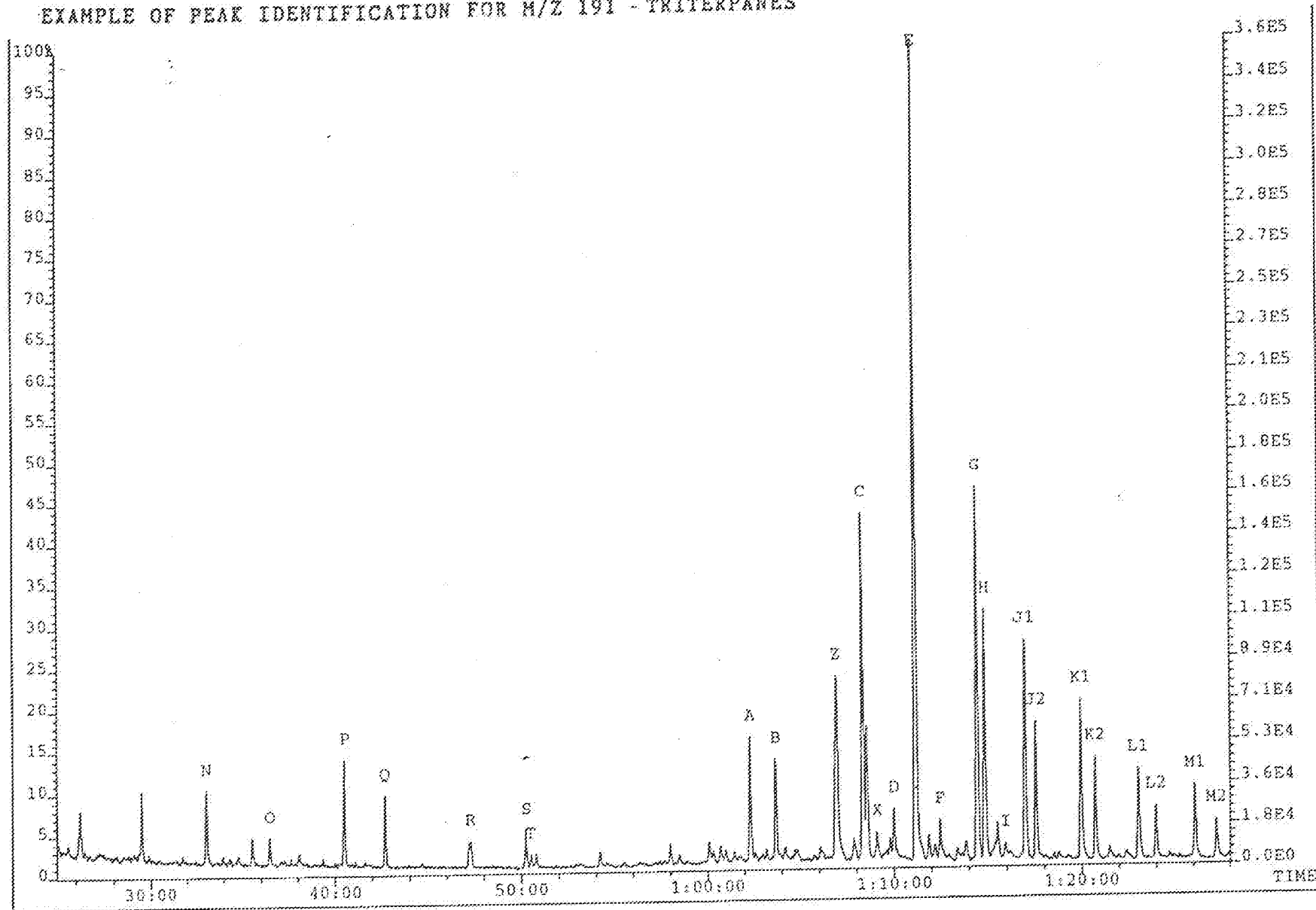


Schlumberger

GECO-PRAKLA

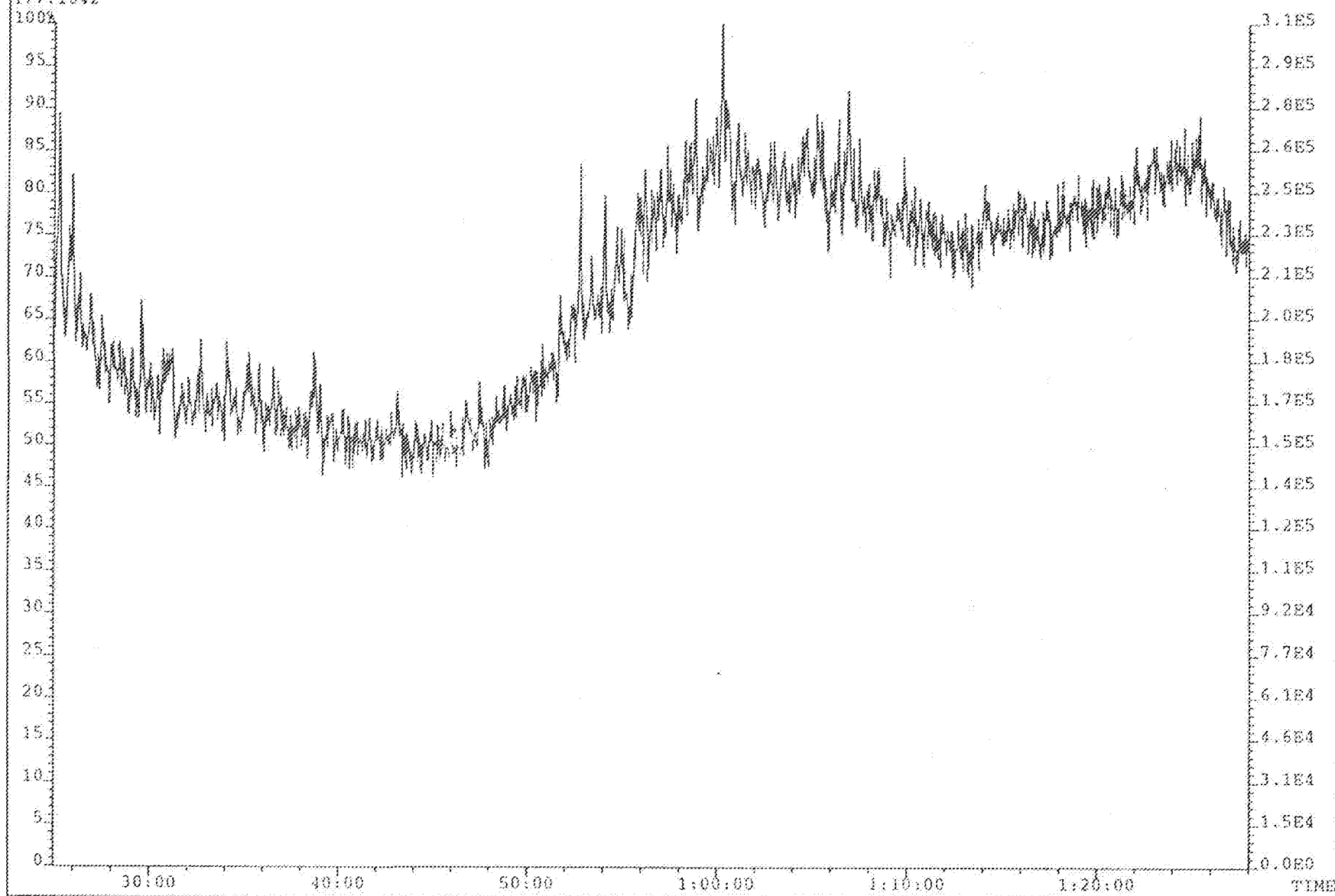
GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 191 - TRITERPANES



File: STATTST3 #1-4896 Acq: 2-DEC-92 09:49:15 EII Magnet SIR
Sample#1 Text: WELL 34/10-23, DST1, SATURATED FRACTION
177.1642

Exp: SAT1A



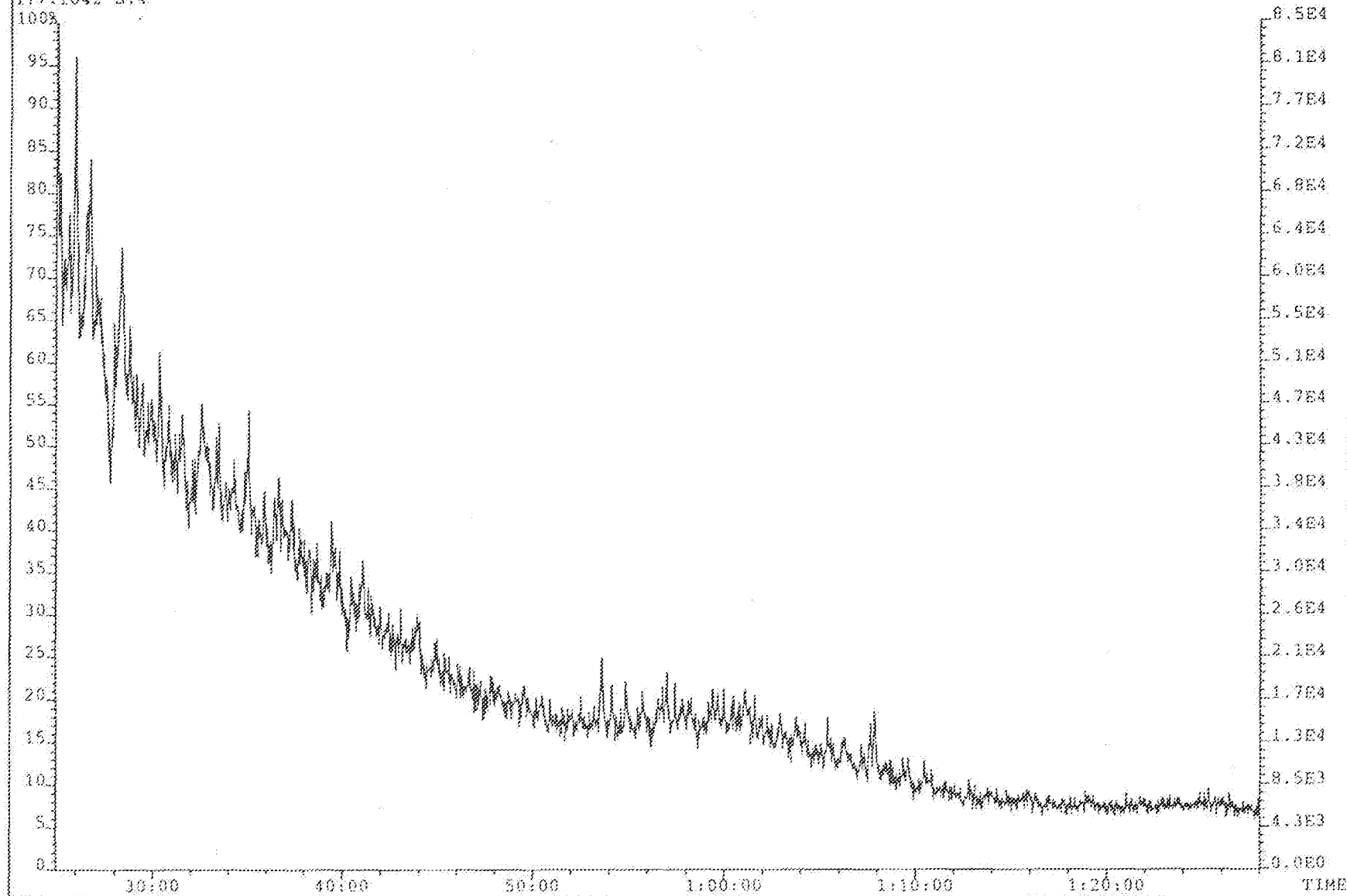
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992 13:30:02 E1: Magnet SIR
Sample#4 Text:WELL 34/10-23, 4097.42M, SATURATED FRACTION
177.1642 S;4

Exp:SAT1



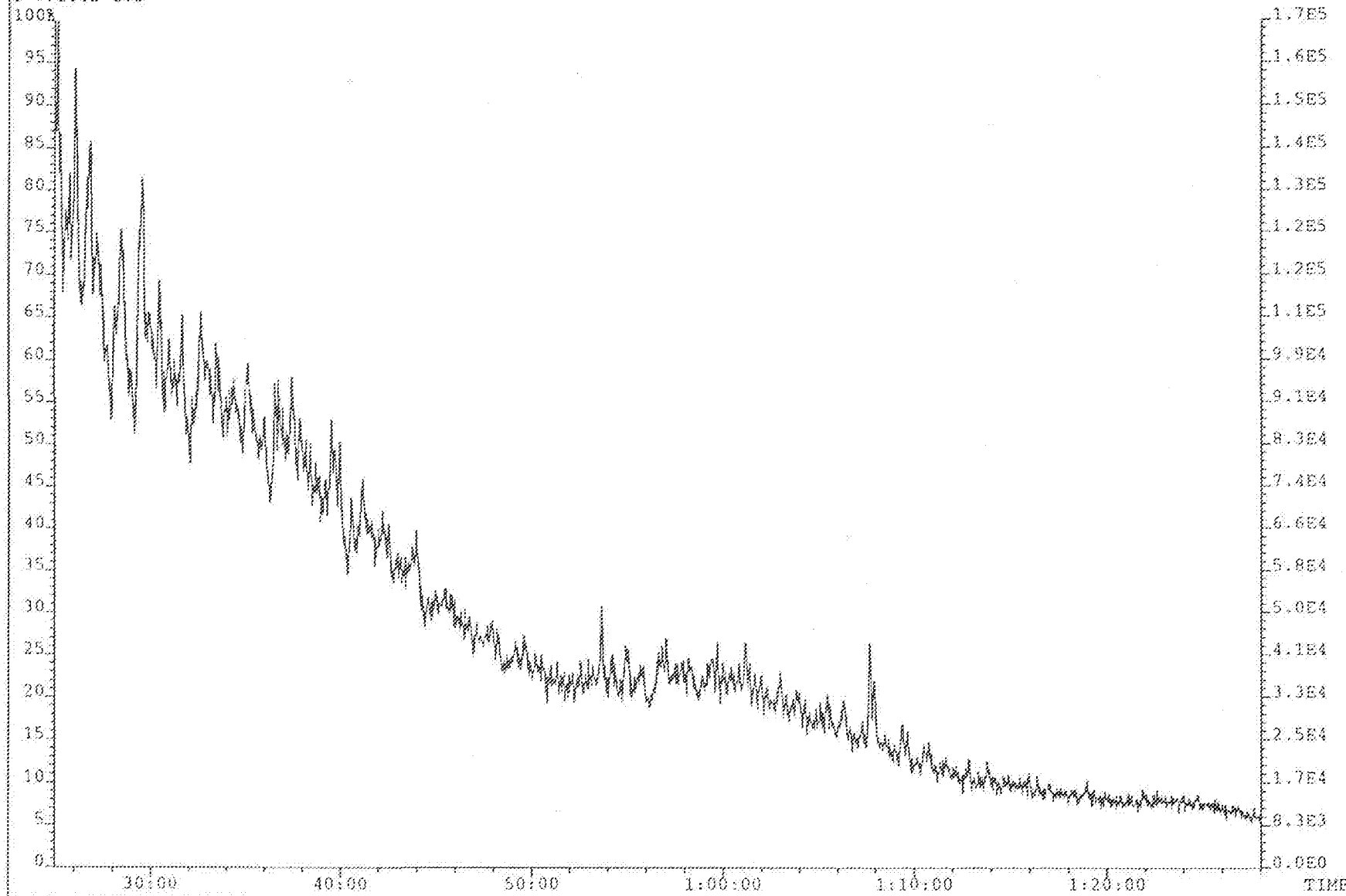
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 W1-4739 Acq:23-SEP-1992 23:30:02 EI: Magnet SIR
Sample#3 Text:WELL 34/10-23, 4084.91M, SATURATED FRACTION
177.1642 S:3

Exp:SAT1

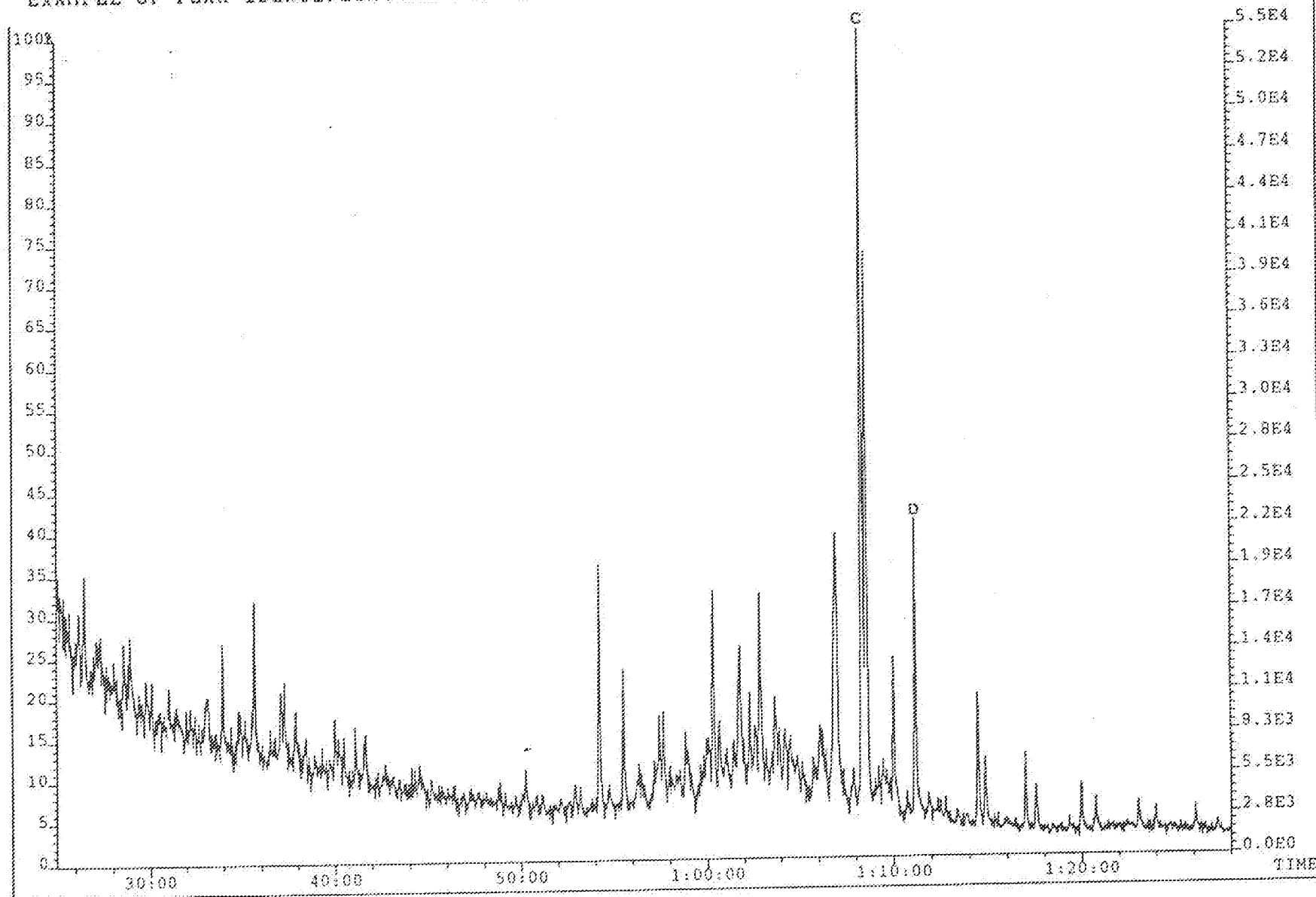


Schlumberger

GECO-PRAKLA

GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 177 DEMETHYLATED TRITERPANES

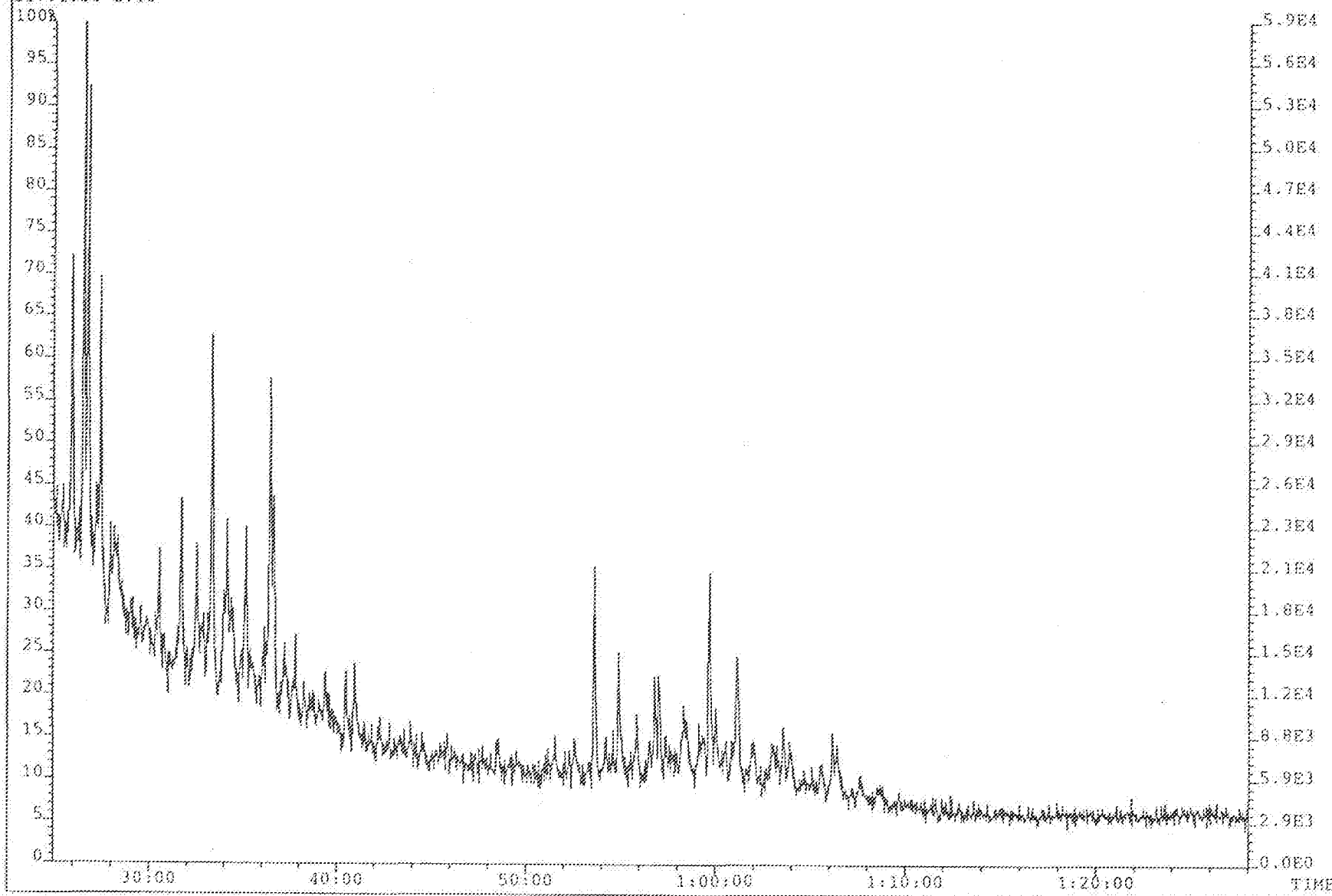


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 W1-4739 Acq:23-SEP-1992 11:30:02 EI: Magnet SIR
Sample#10 Text:WELL 34/10-35, OLJE OVER MOD, 3496-3504M, SAT. FRAC. FROM OIL Exp:SAT1
217.1956 S:10



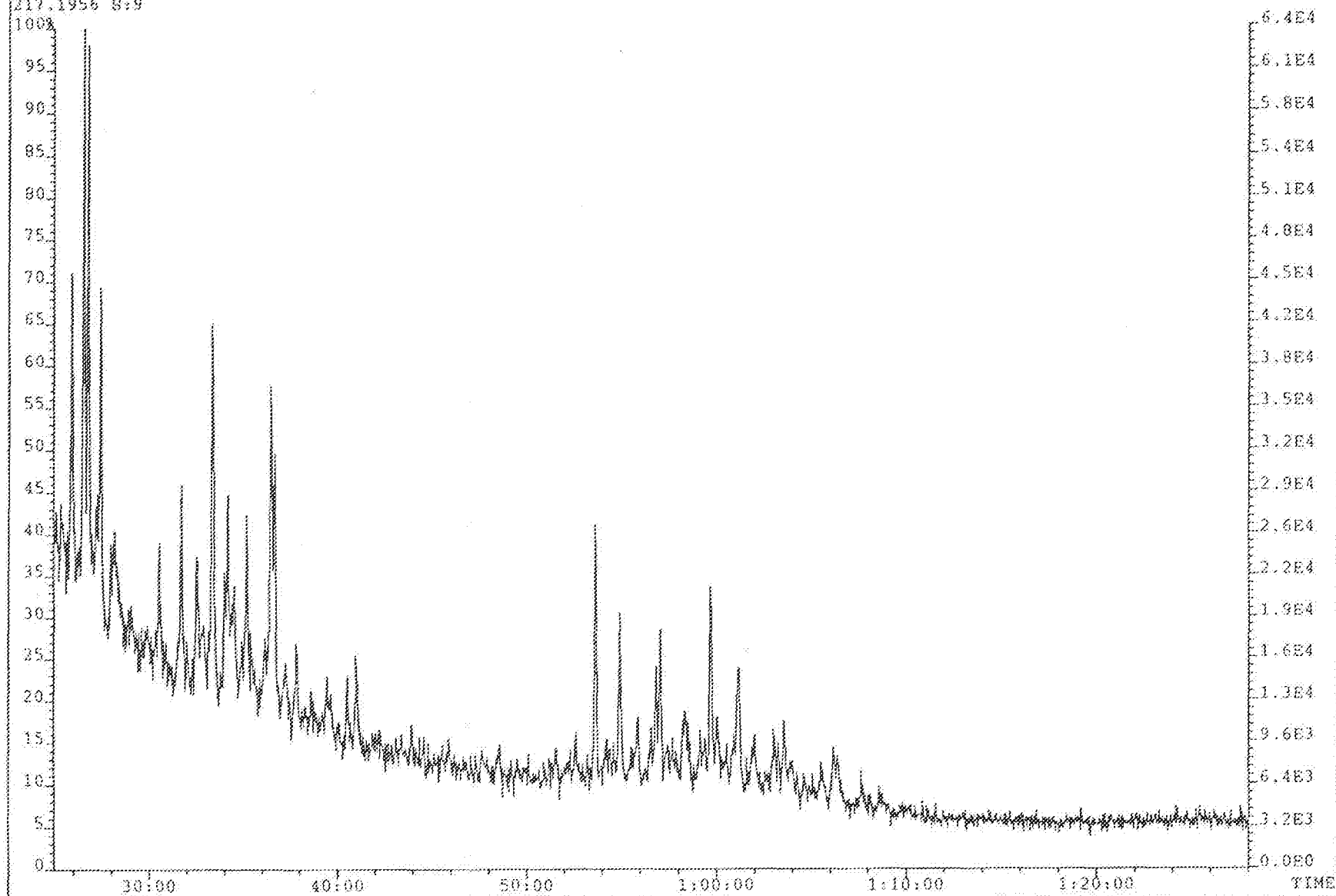
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:23-SEP-1992 11:30:02 EI+ Magnet SIR
Sample#9 Text:WELL 34/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL
217.1956 S:9

Exp:SAT1

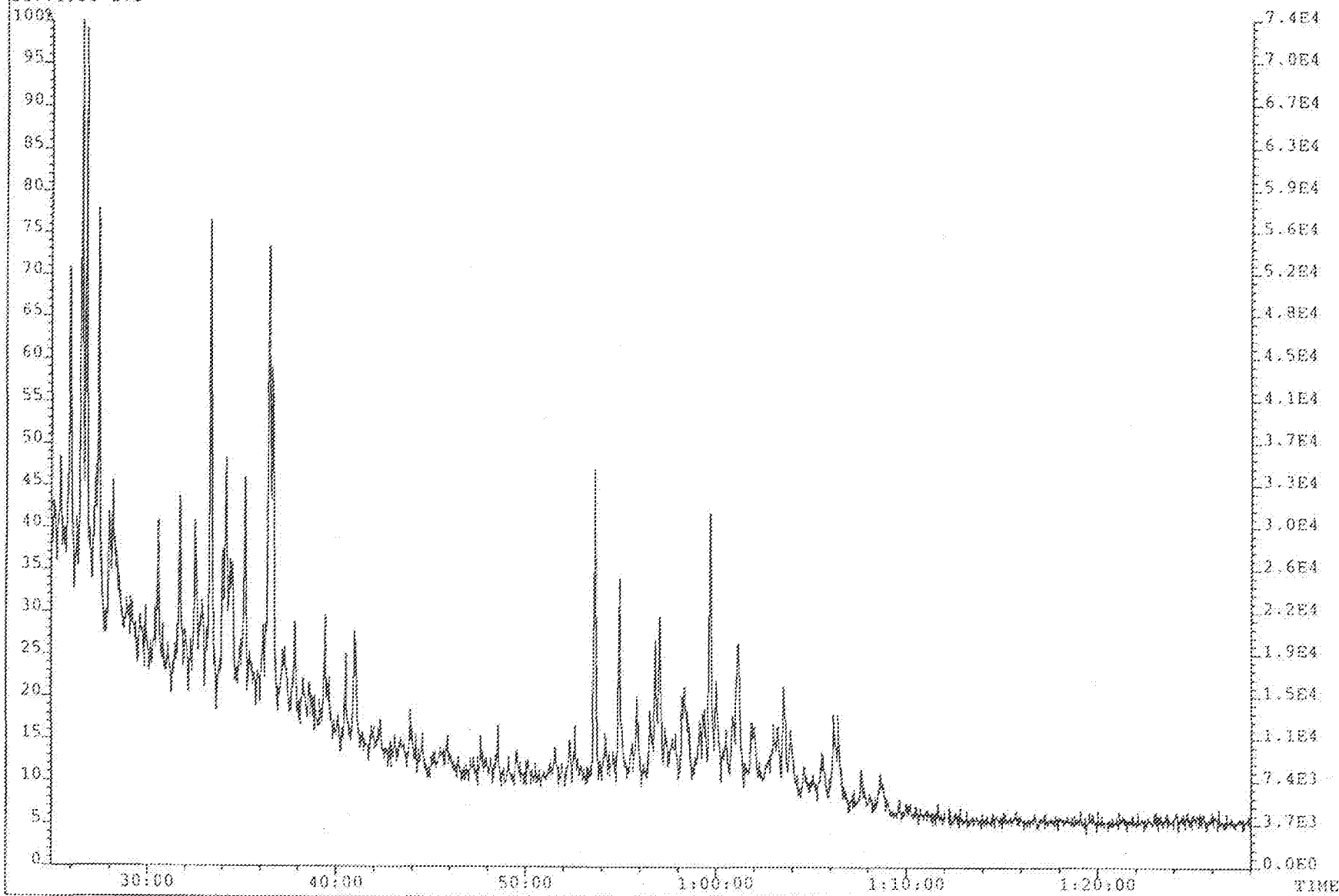


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT1 #1-4740 Acq: 23-SEP-1992 13:30:02 EI: Magnet SIR
Sample#8 Text: WELL 34/10-35, DST2, 1984-1995M, SATURATED FRACTION FROM OIL Exp: SAT1
217.1956 S:8



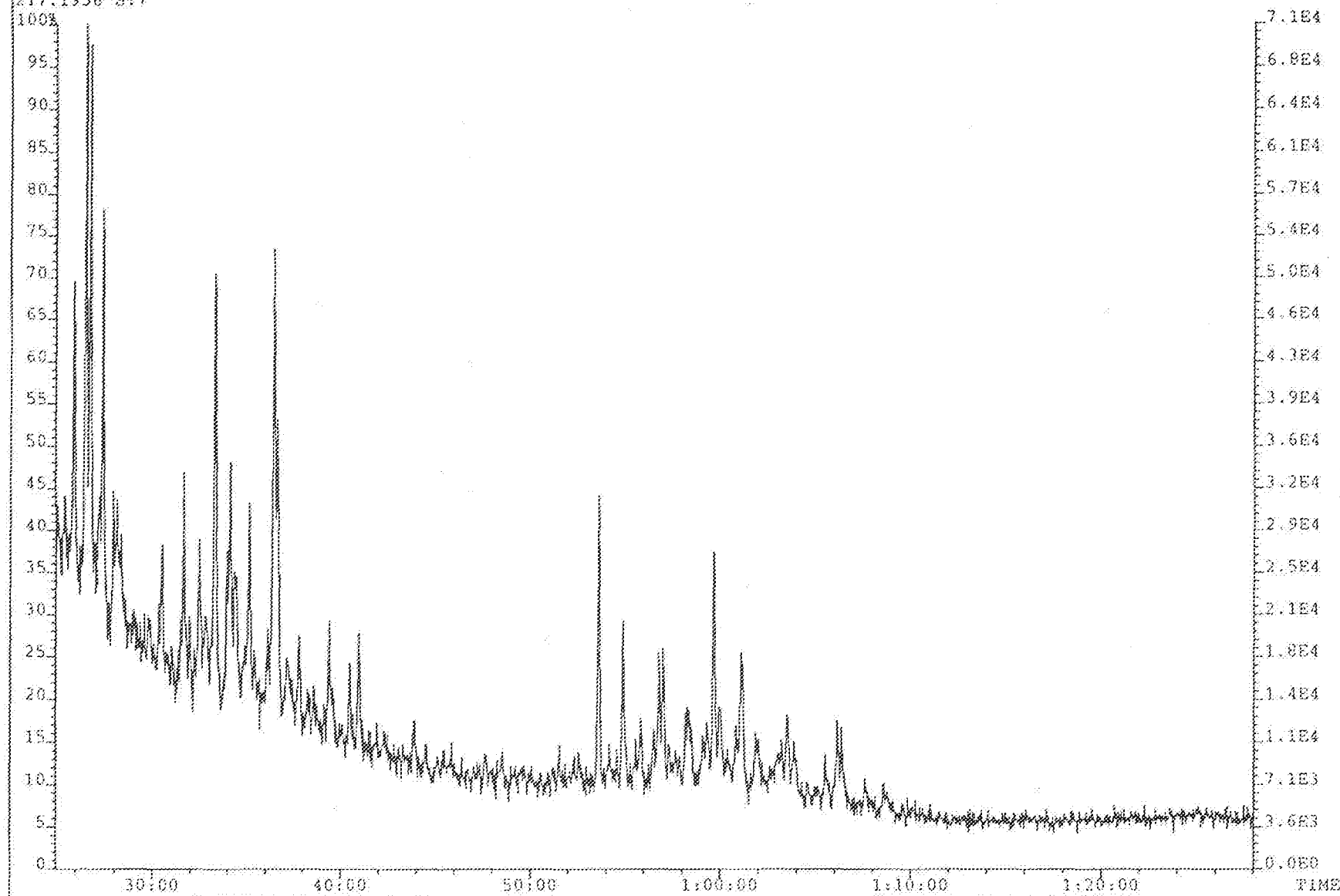
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 WI-4740 Acq:23-SEP-1992 11:30:02 EI+ Magnet SIR
Sample#7 Text:WELL 34/10-15, DST1, 4015-25M. SATURATED FRACTION FROM OIL
217.1956 S:7

Exp:SAT1



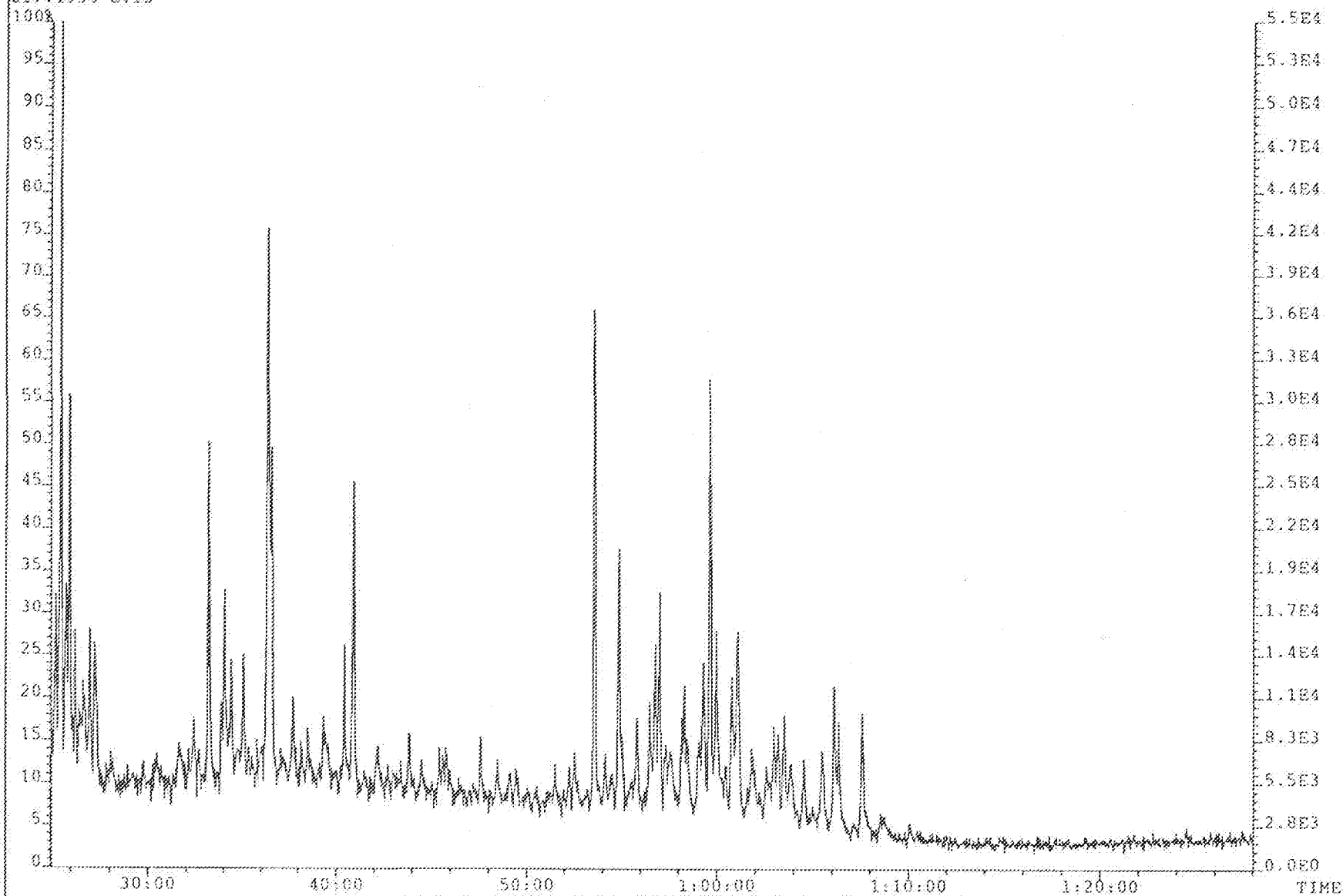
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT2 #1-4740 Acq: 22-SEP-1992 14:23:15 E1: Magnet SIR
Sample#13 Text: WELL 34/10-35, 4283.4RM, SATURATED FRACTION
217.1956 S:13

Exp: SAT1



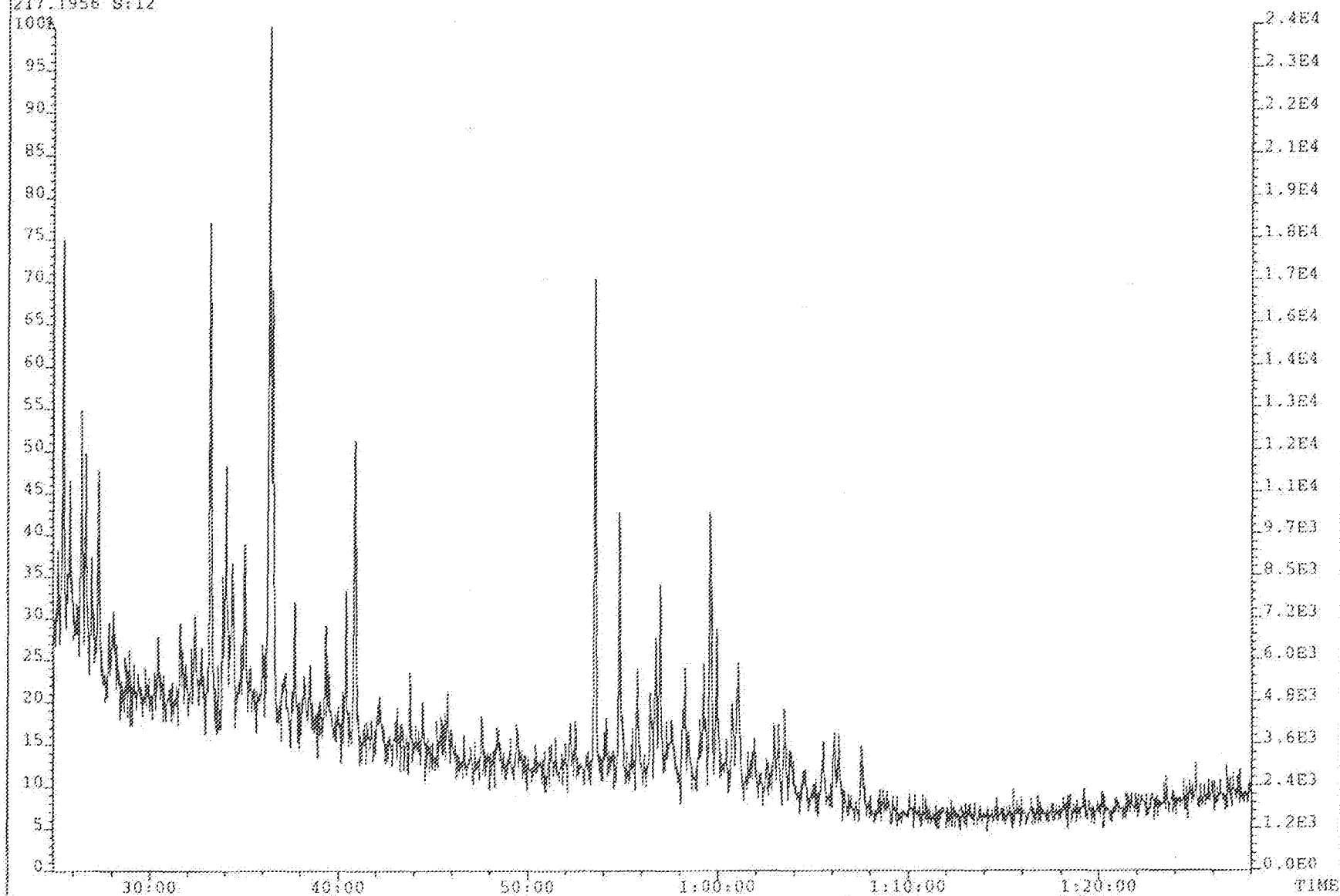
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:22-SEP-1992 14:23:15 RT: Magnet SIR
Sample#12 Text:WELL 34/10-35, 4270.75M, SATURATED FRACTION
217.1956 S:12

Exp: SAT1



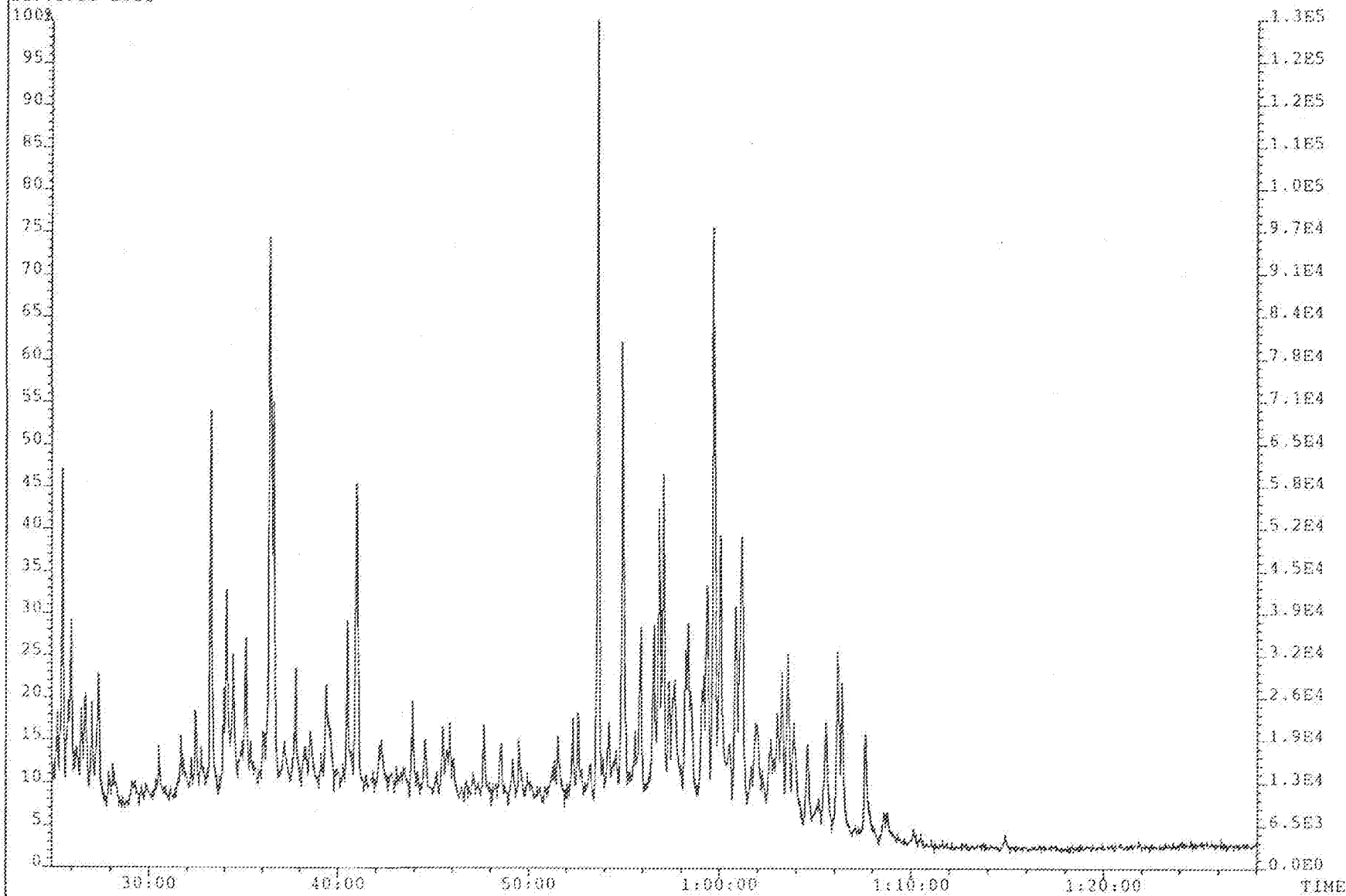
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:22-SEP-1992 14:23:15 ET+ Magnet SIR
Sample#11 Text:WELL 34/10-35, 4257.47M, SATURATED FRACTION
217.1956 S:11

Exp:SAT1



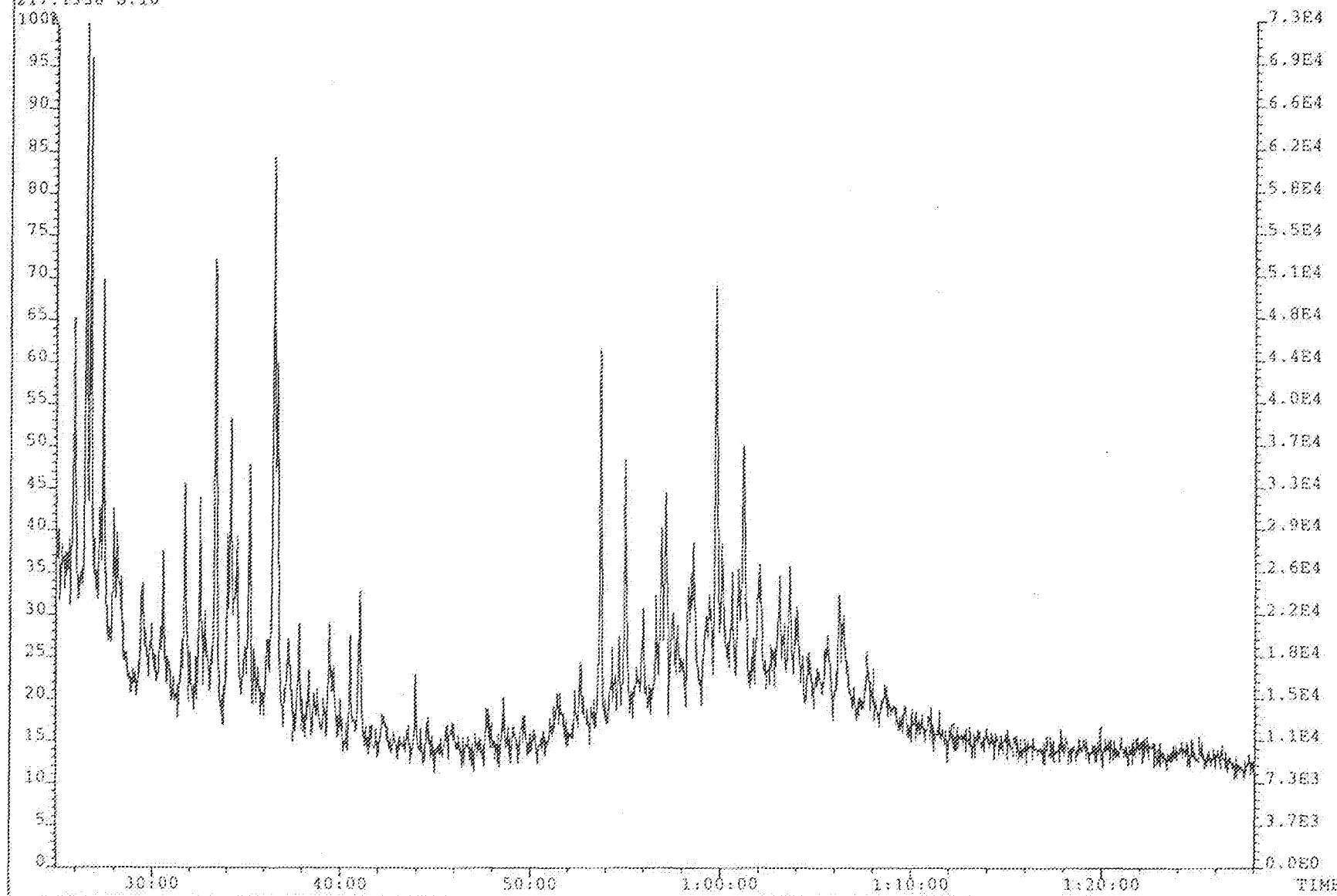
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 ET+ Magnet SIR
Sample#10 Text:WELL 34/10-35, 4021.93M, SATURATED FRACTION
217.1956 S:10

Exp:SAT1



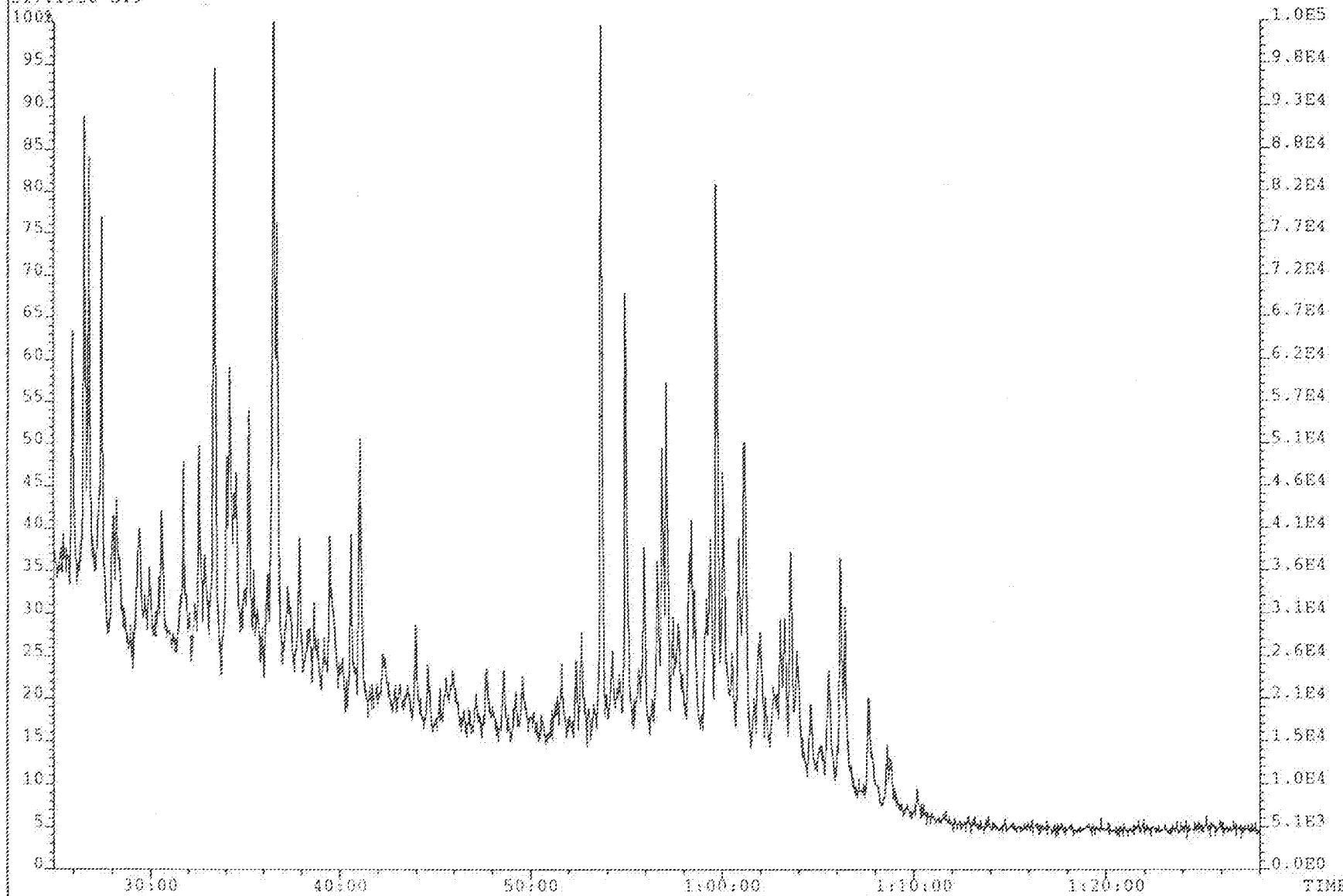
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4719 Acq:22-SEP-1992 04:23:15 EI: Magnet SIR
Sample#9 Text:WELL 34/10-35, 4006.17M, SATURATED FRACTION
217.1956 S:9

Exp:SAT1



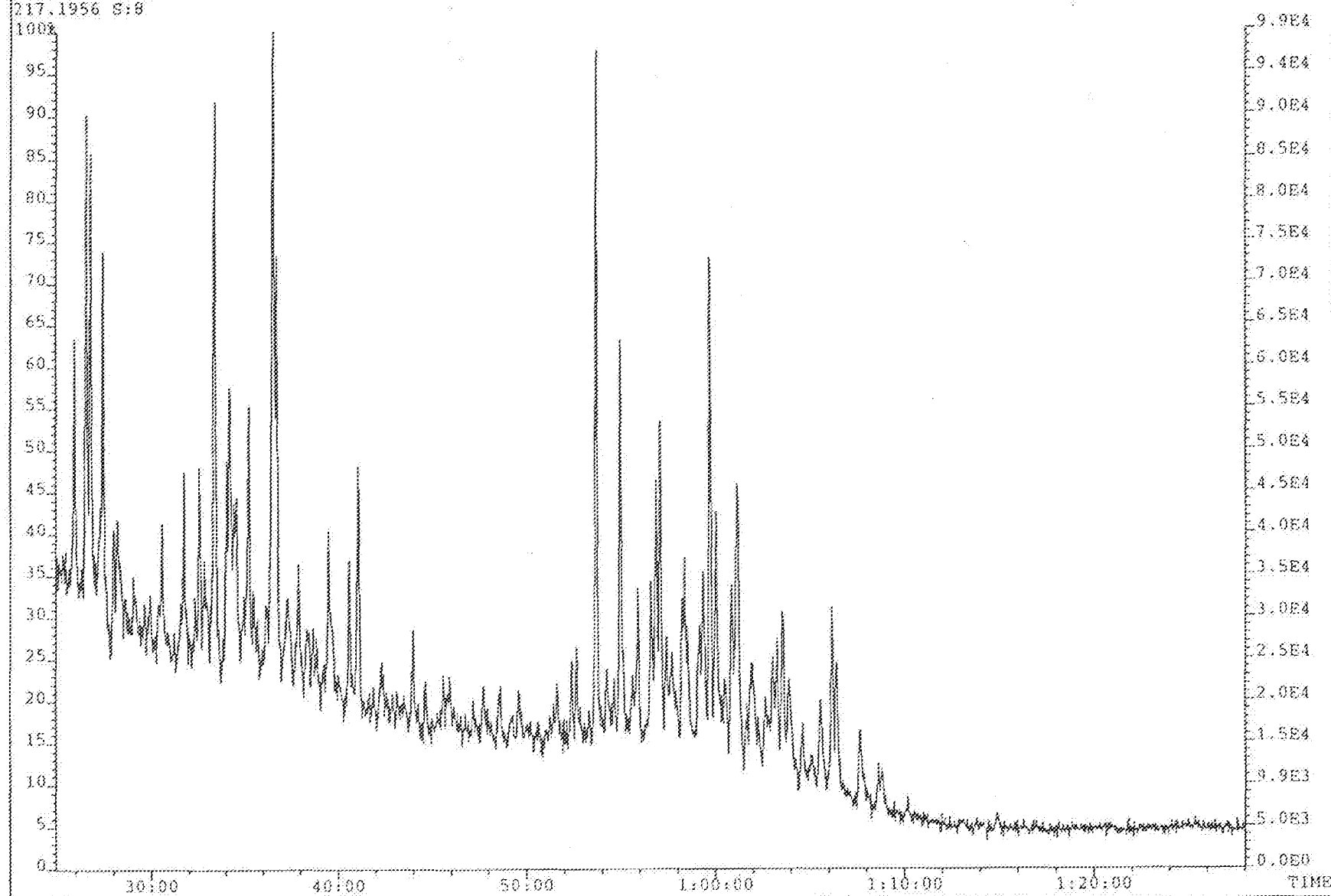
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1997 14:23:15 RI+ Magnet SIR
Sample#9 Text:WELL 34/10-35, 1994.05M, SATURATED FRACTION
217.1956 S:8

Exp:SAT1



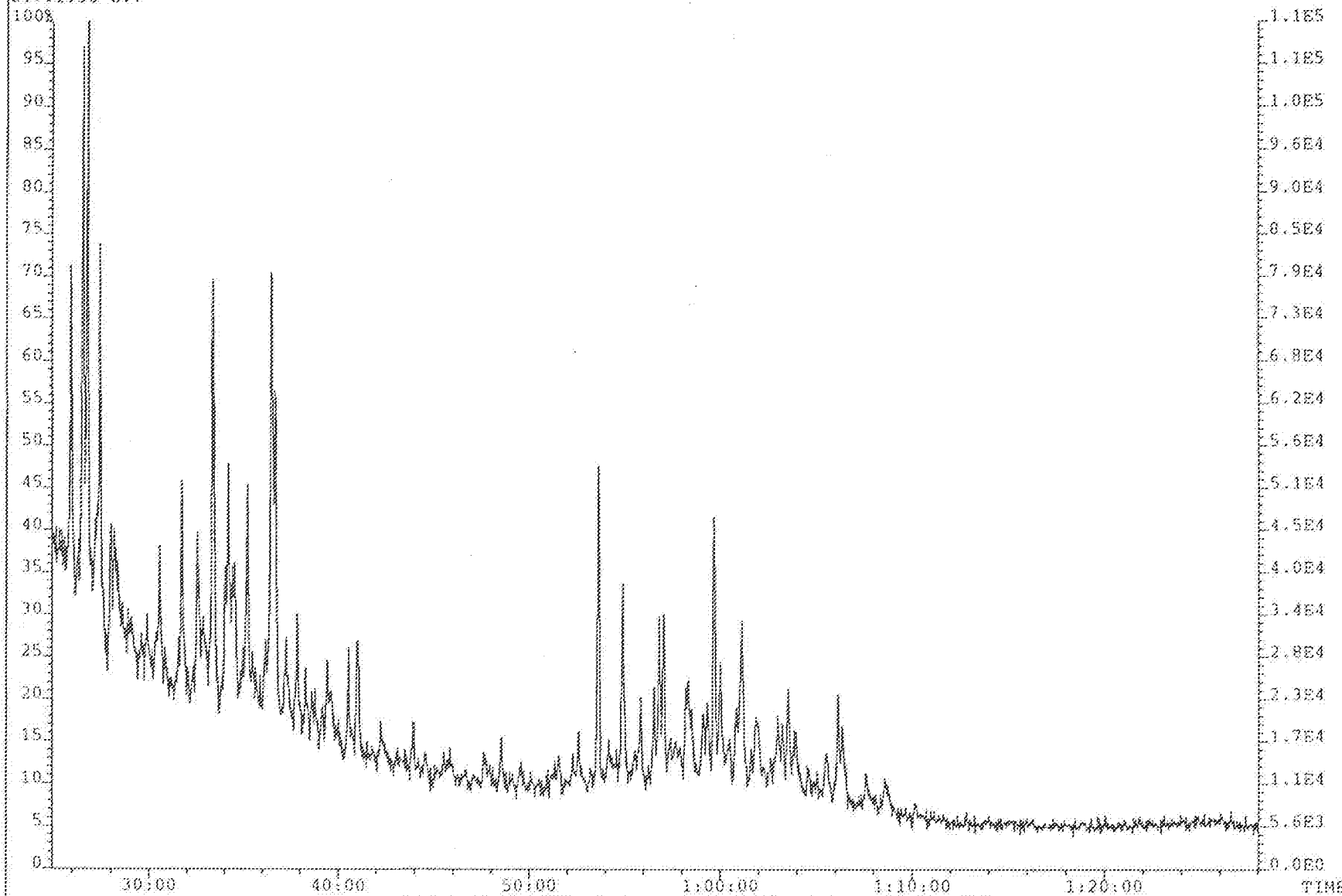
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#7 Text:WELL 34/10-35, 3933.16M, SATURATED FRACTION
217.1956 S:7

Exp:SAT1



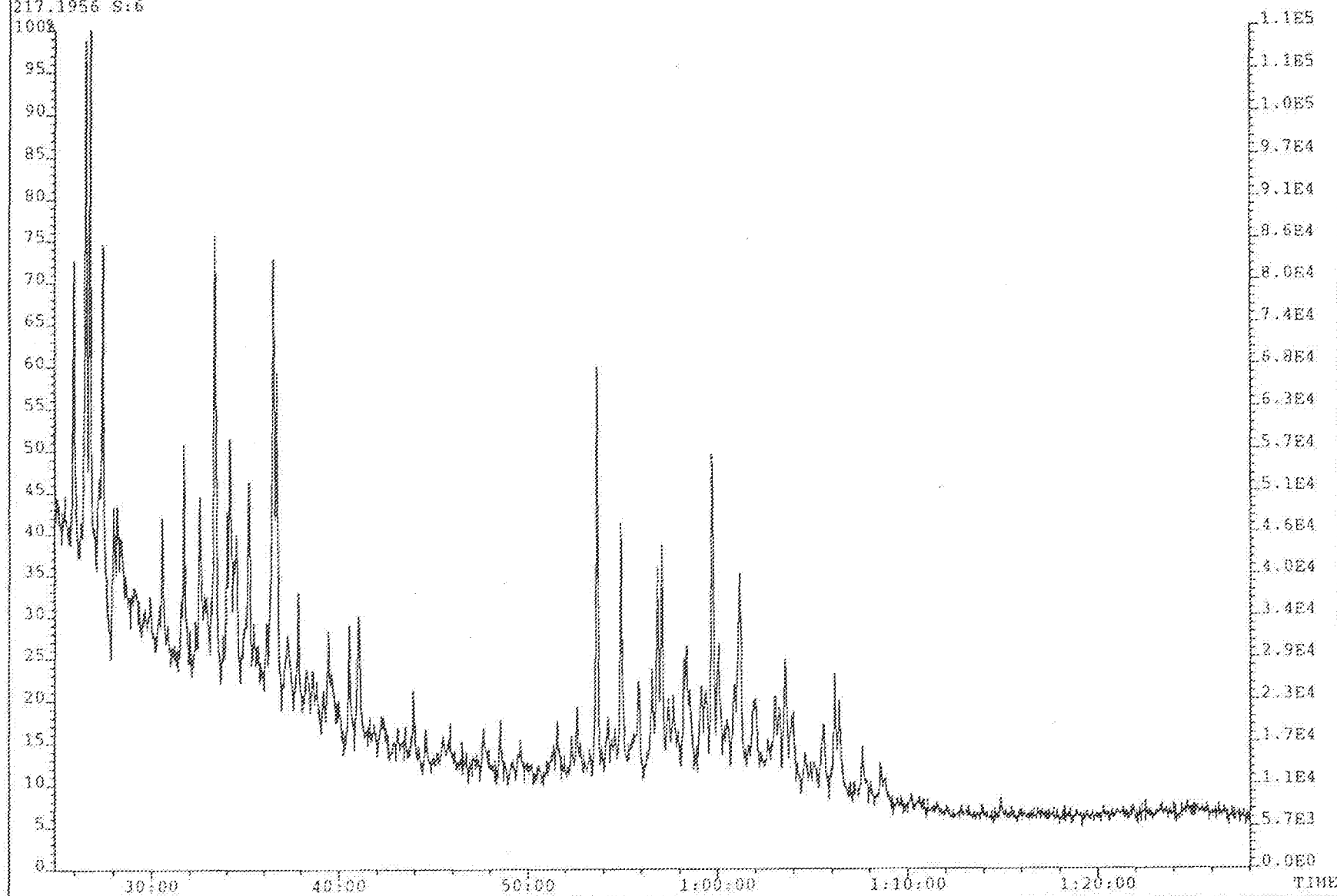
Schlumberger

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GEOLAB NOR

File:STATSAT2 W1-4739 Acq:22-SEP-1993 14:23:15 E1+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3931.71M, SATURATED FRACTION
217.1956 S:6

Exp:SAT1



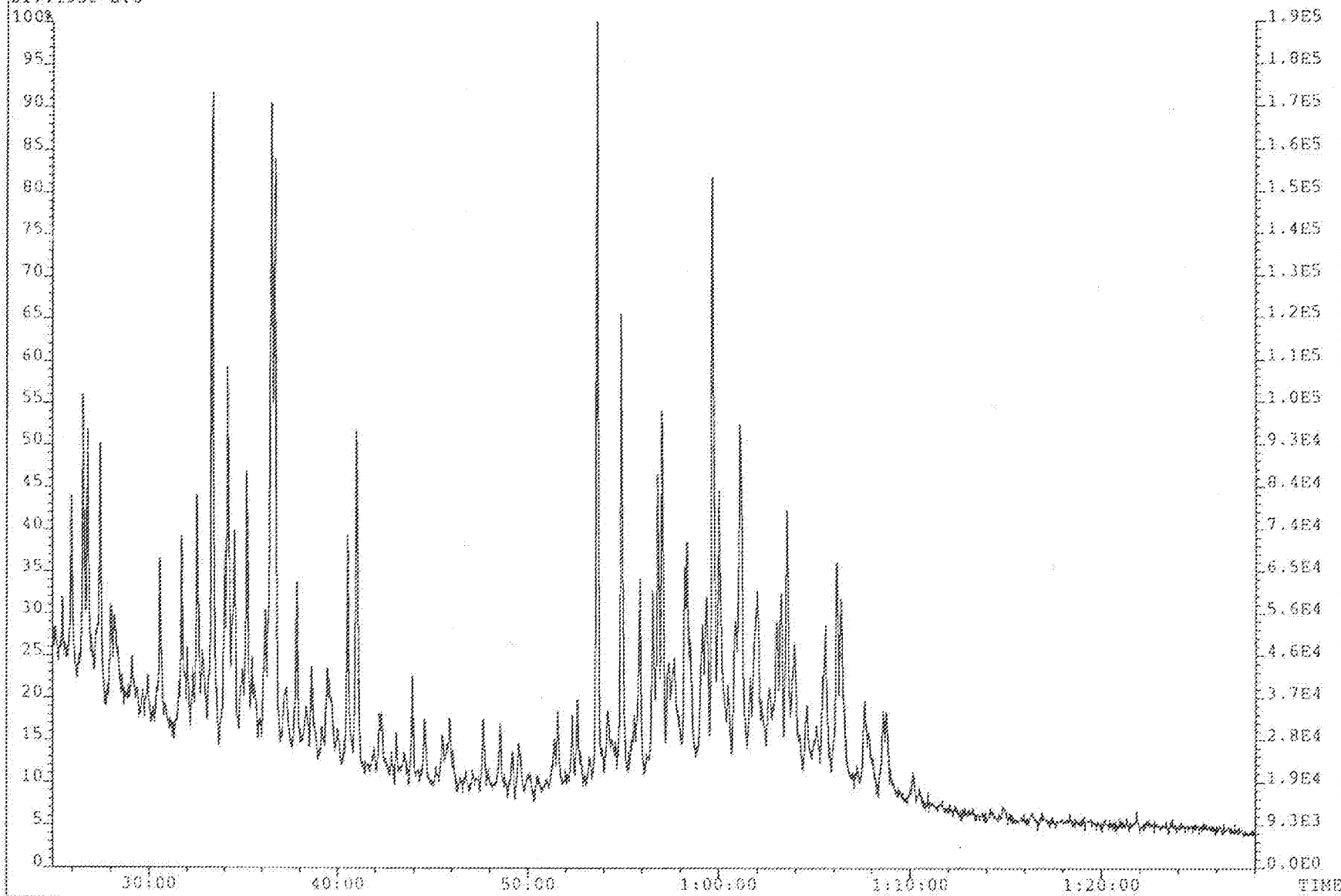
Schlumberger

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GEOLAB NOR

File:STATSAT1 BI-4740 Acq:23-SEP-1992 11:10:02 EI+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3894M, SATURATED FRACTION
217.1956 S:6

Exp:SAT1



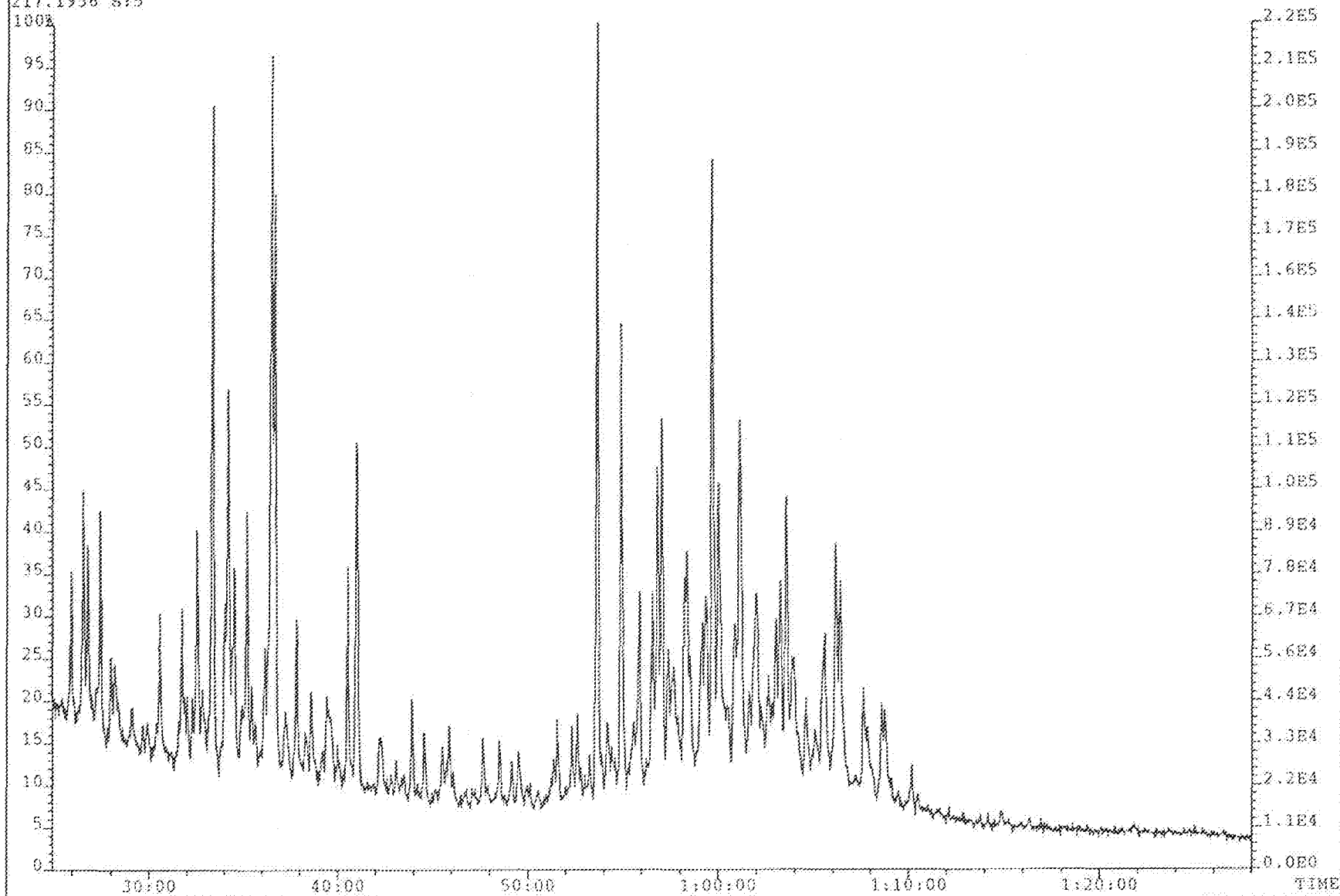
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

File:STATSAT1 #1-4719 Acq:21-SEP-1992 11:30:03 EI+ Magnet SIR
Sample#5 Text:WELL 14/10-35, 3885M, SATURATED FRACTION
217.1956 8:5

Exp:SAT1



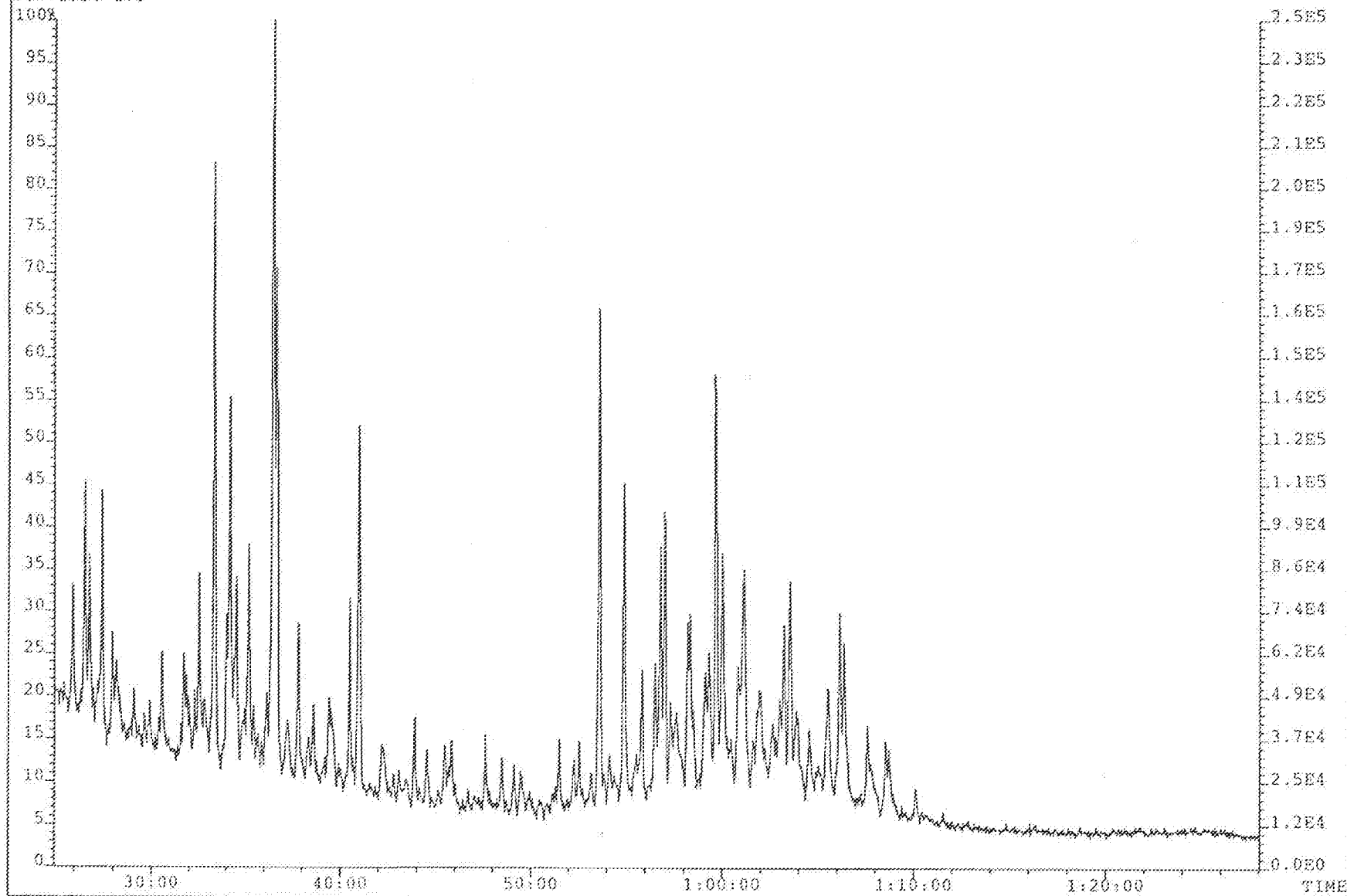
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:21-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#5 Text:WELL 34/10-35, 3852M, SATURATED FRACTION
217.1956 S:5

Exp:SAT1



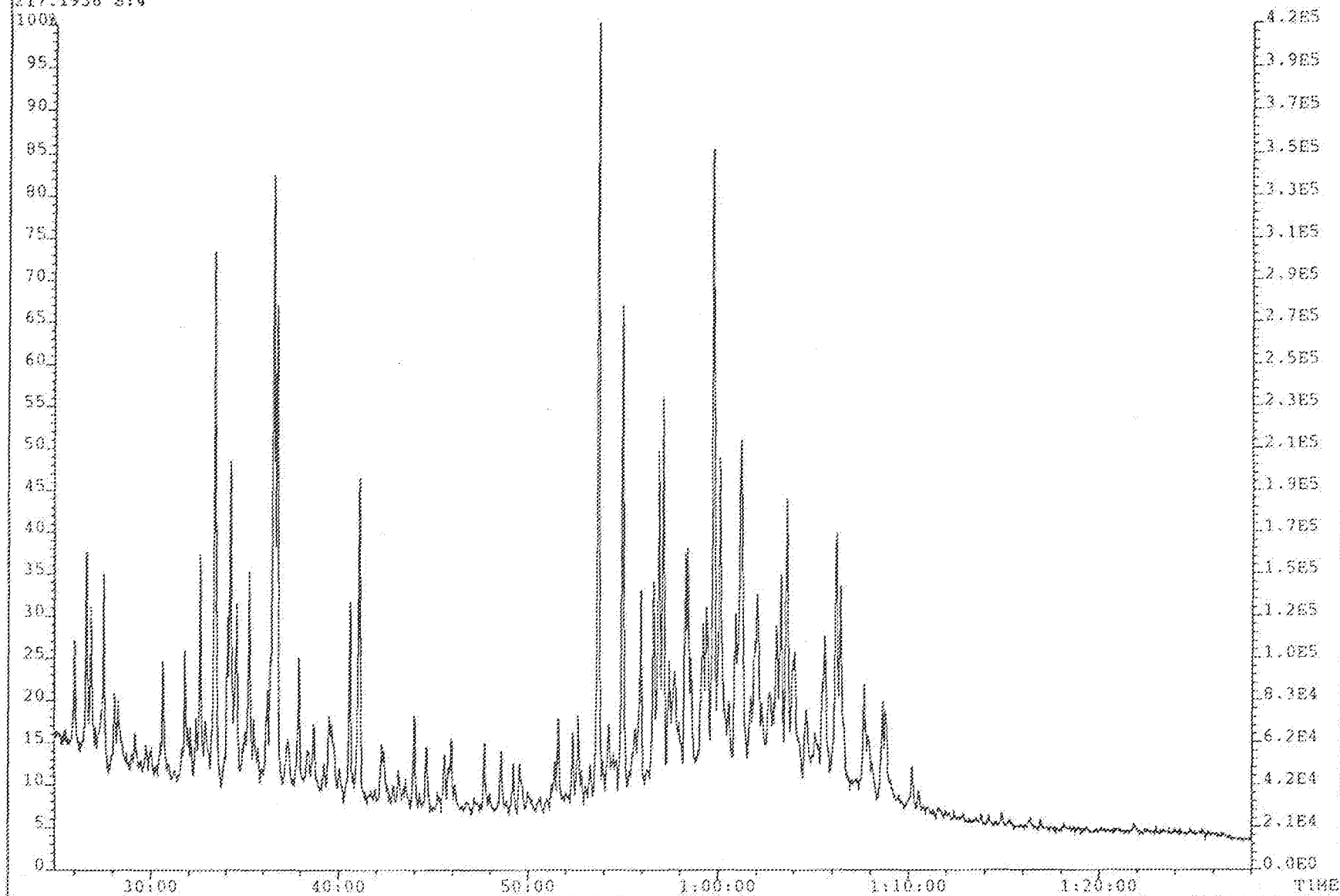
Schlumberger

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GEOLAB NOR

File: STASAT2 W1-4740 Acq: 22-SEP-1992 14:23:15 E1+ Magnet SIR
Sample#4 Text: WELL 34/10-35, 3831M, SATURATED FRACTION
217.1956 S:4

Exp: SAT1



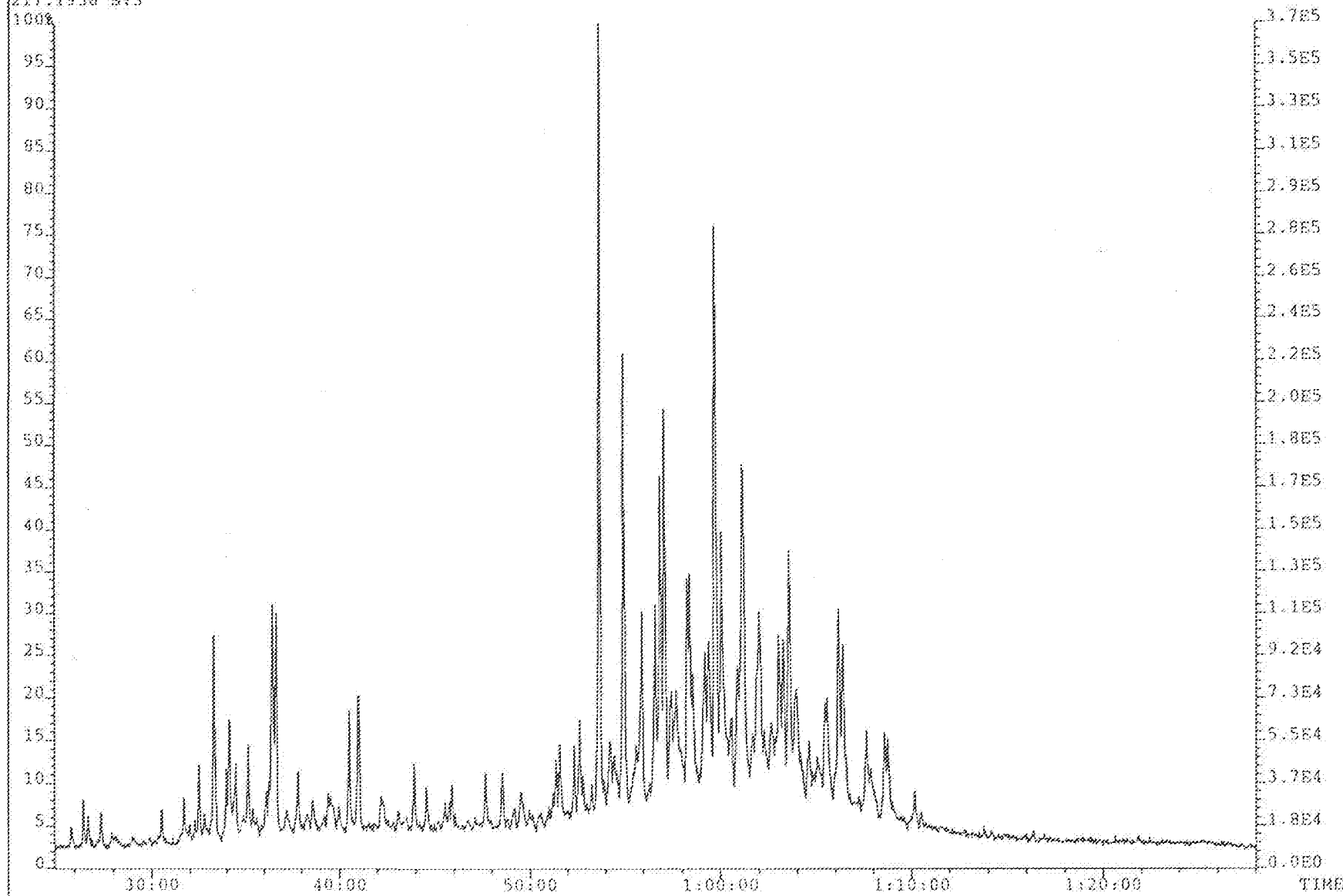
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#3 Text:WELL 34/10-35, 3530M, SATURATED FRACTION
217.1956 S:3

Exp:SAT1

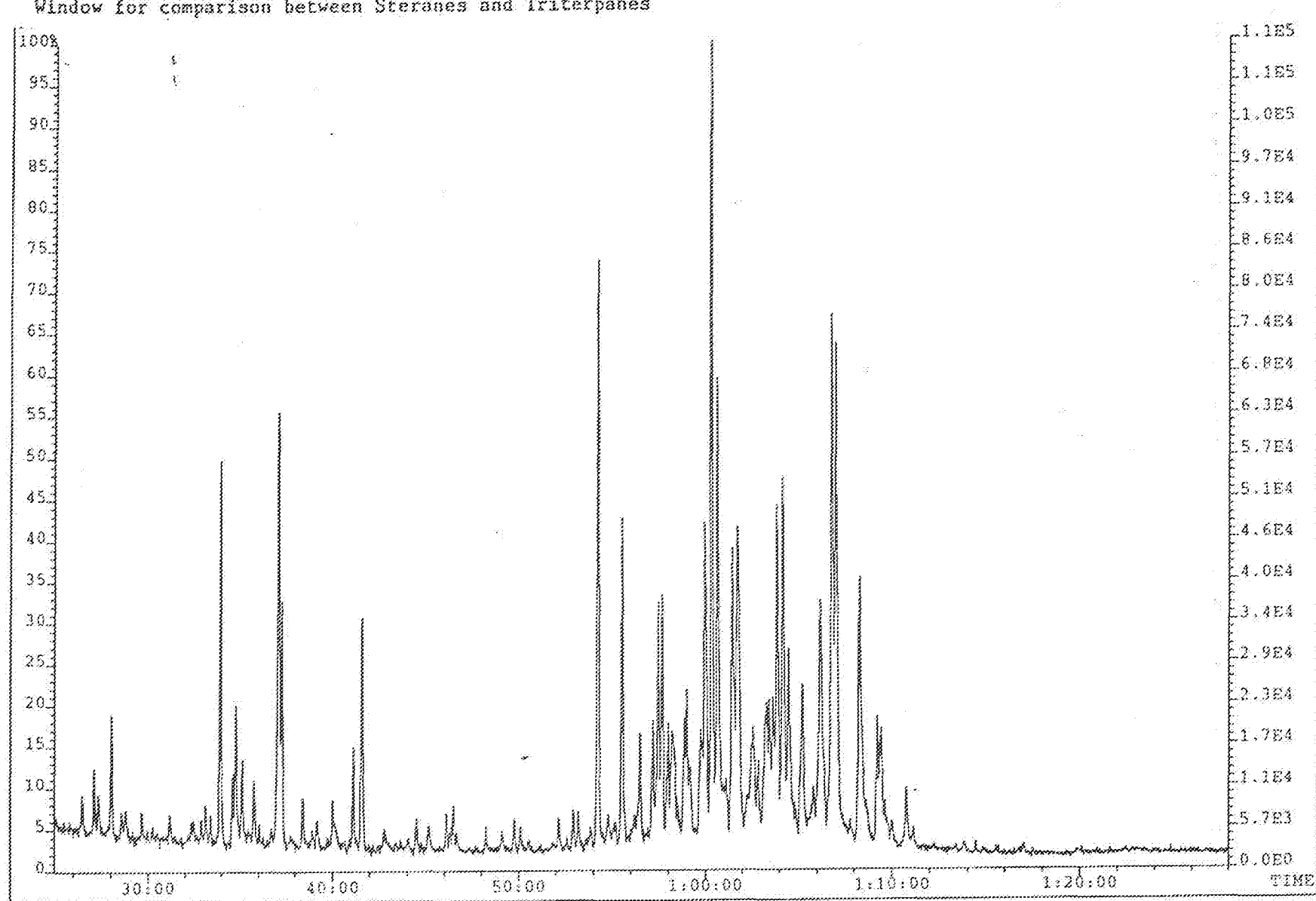


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M/Z 217 Fragmentograms, processed using the Triterpane
Window for comparison between Steranes and Triterpanes

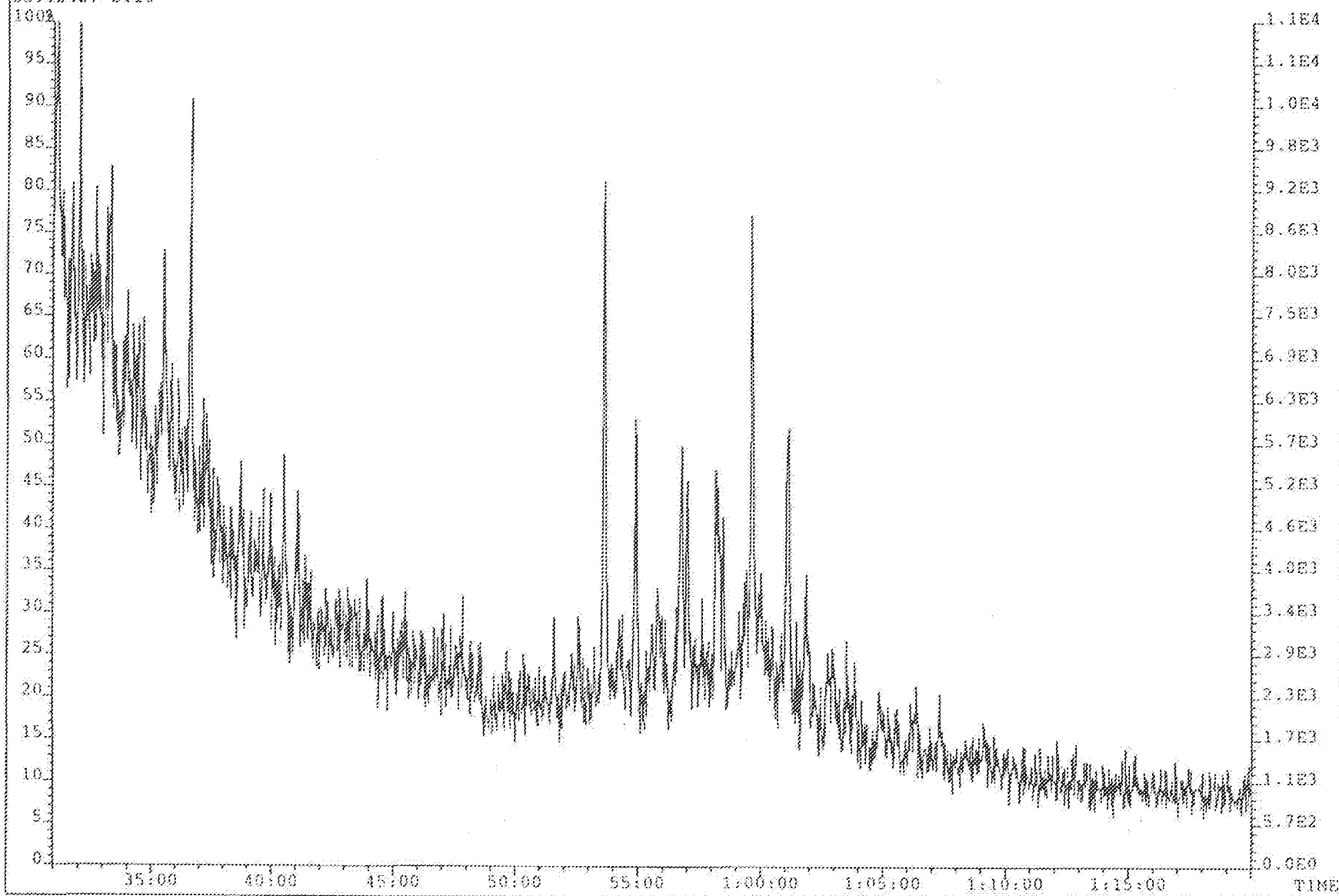


Schlumberger

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GEOLAB NOR

File:STATSAT1 #1-4739 Acq:23-SEP-1992 13:30:02 E1+ Magnet SIR
Sample#10 Text:WELL 34/10-35, OLJE OVER MUD, 3496-3504M, SAT. FRAC. FROM OIL Exp:SAT1
259.2427 S:10

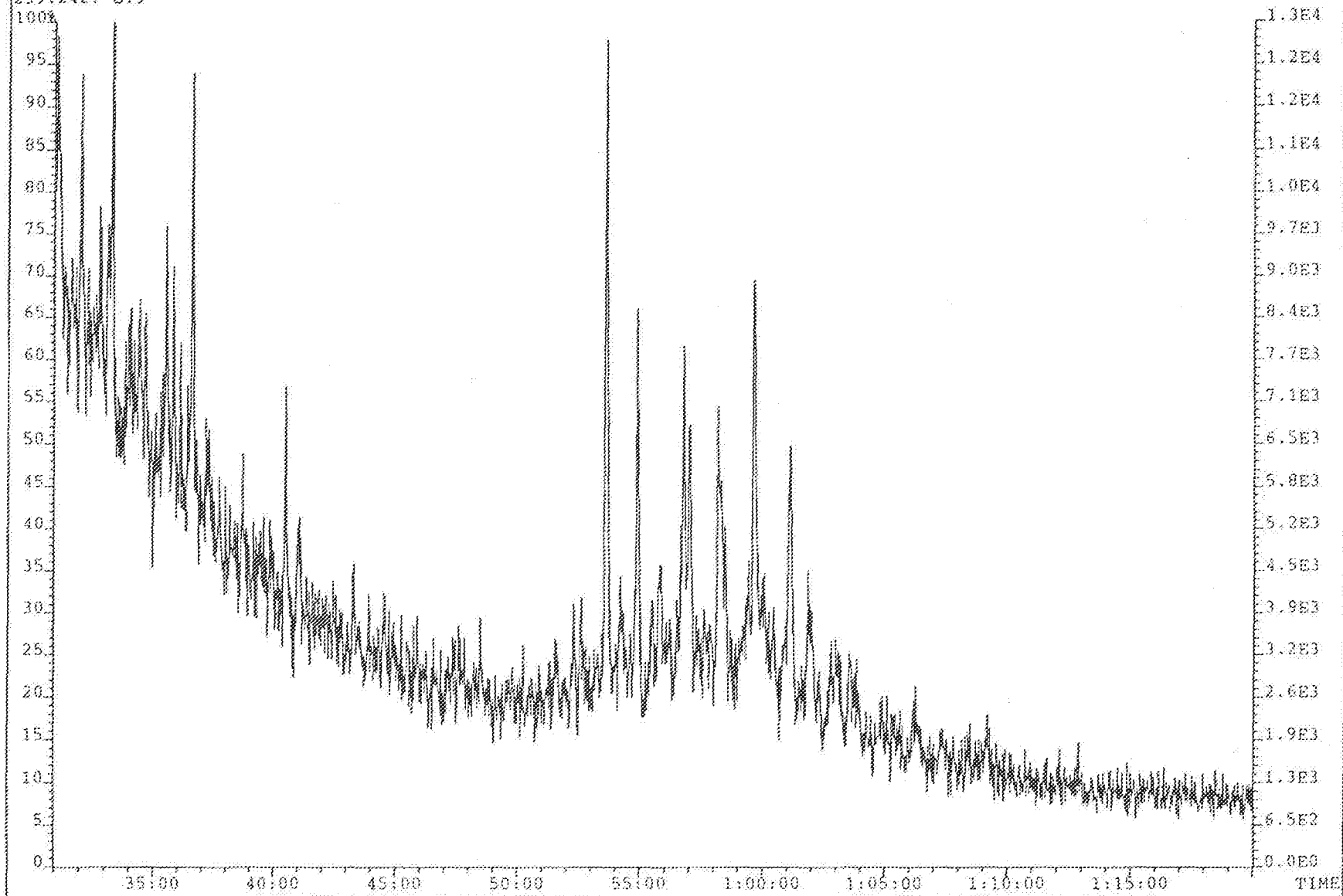


Schlumberger

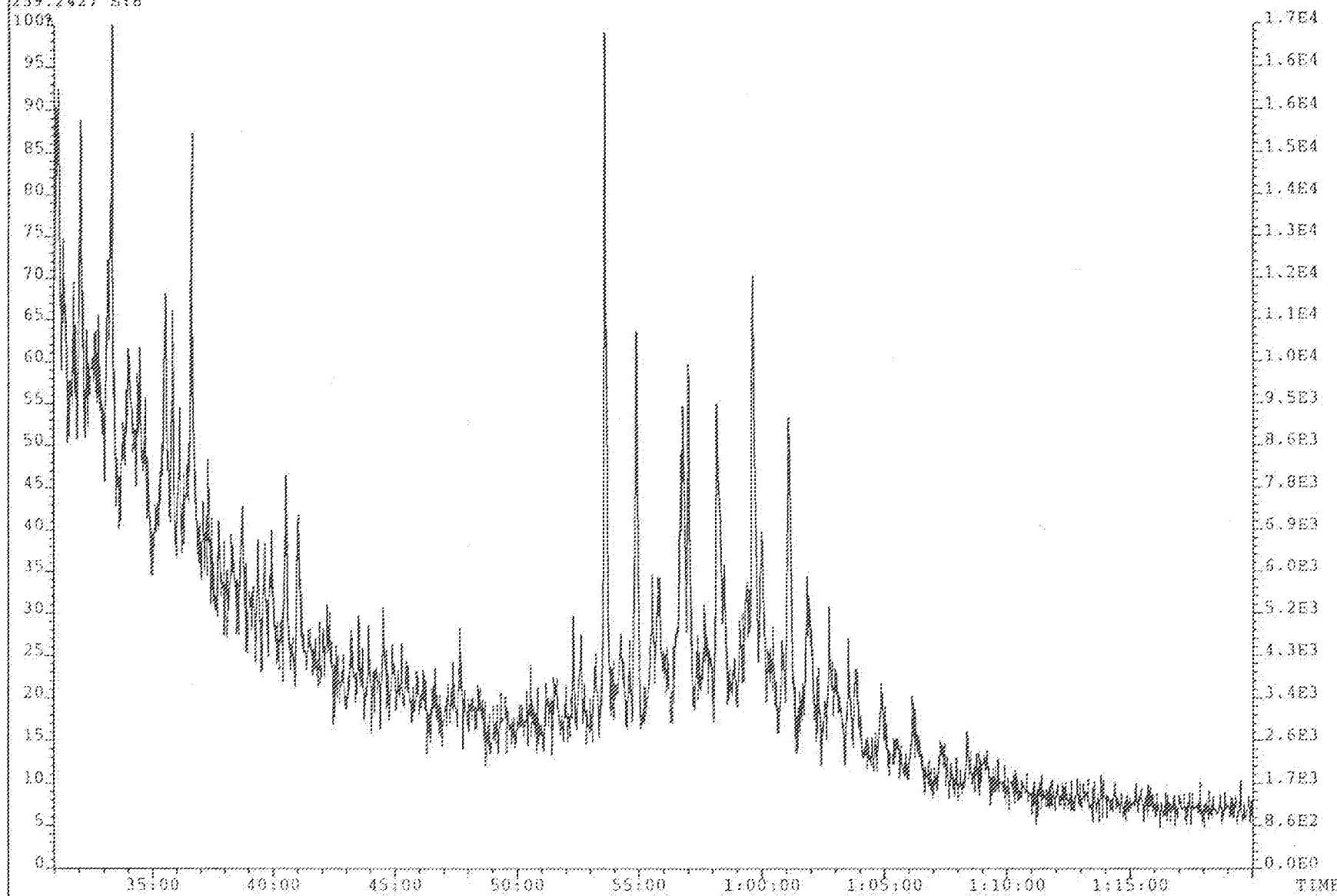
GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 81-4740 Acq:21-SEP-1997 11:30:02 EI+ Magnet SIR
Sample#9 Text:WELL 14/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL Exp:SAT1
259.2427 S:9



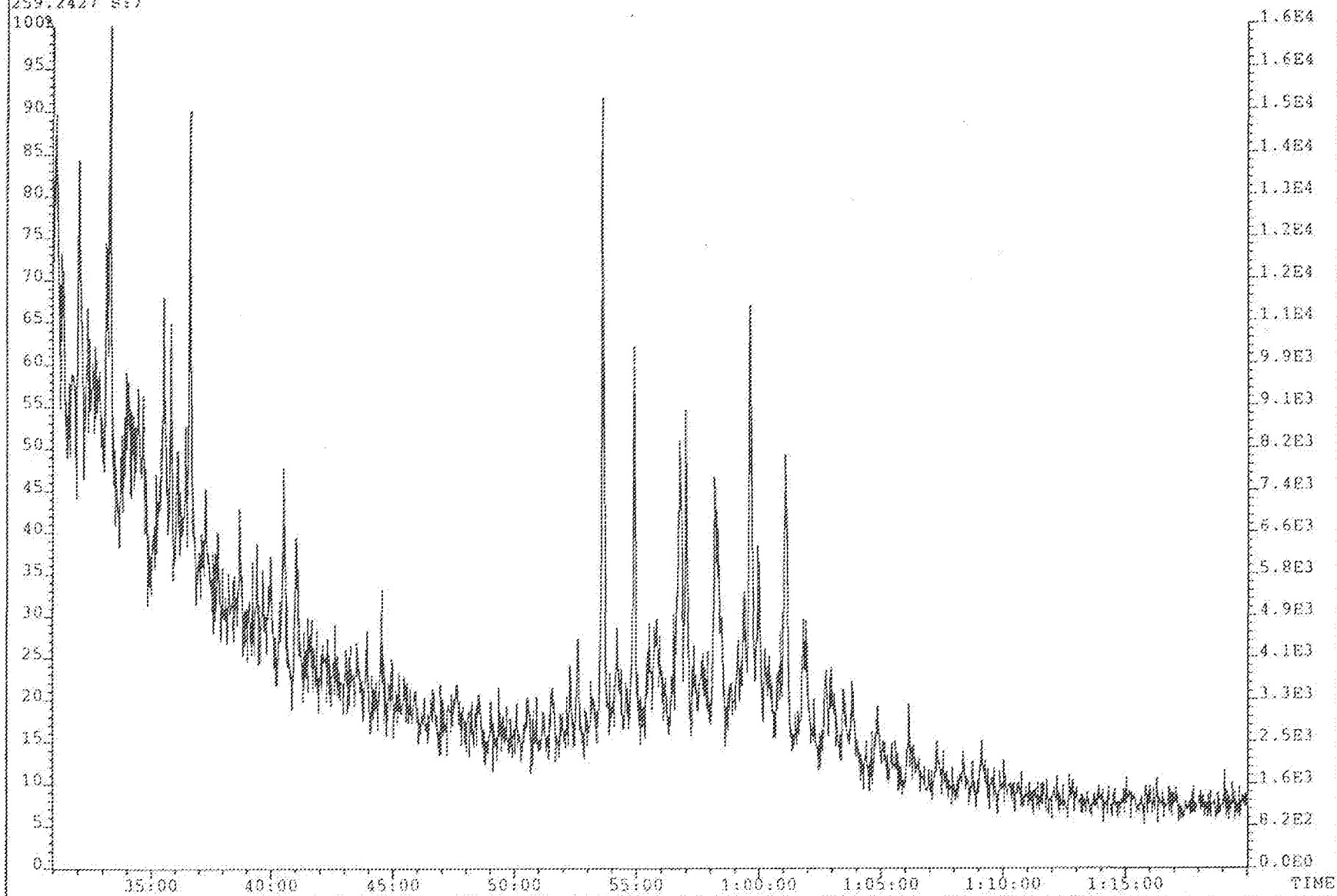
File:STATSATJ #1-4740 Acq:23-SEP-1992 13:30:02 EI+ Magnet 8IR
Sample#8 Text:WELL 34/10-35, DST2, 3984-3995M, SATURATED FRACTION FROM OIL Exp:SAT1
259.2427 S:8



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File: STASAT1 W1-4740 Acq: 23-SEP-1992, 13:30:02 BT: Magnet SIR
Sample#7 Text: WELL 34/10-35, DST1, 4015-25M, SATURATED FRACTION FROM OIL Exp: SAT1
259.2427 S:7



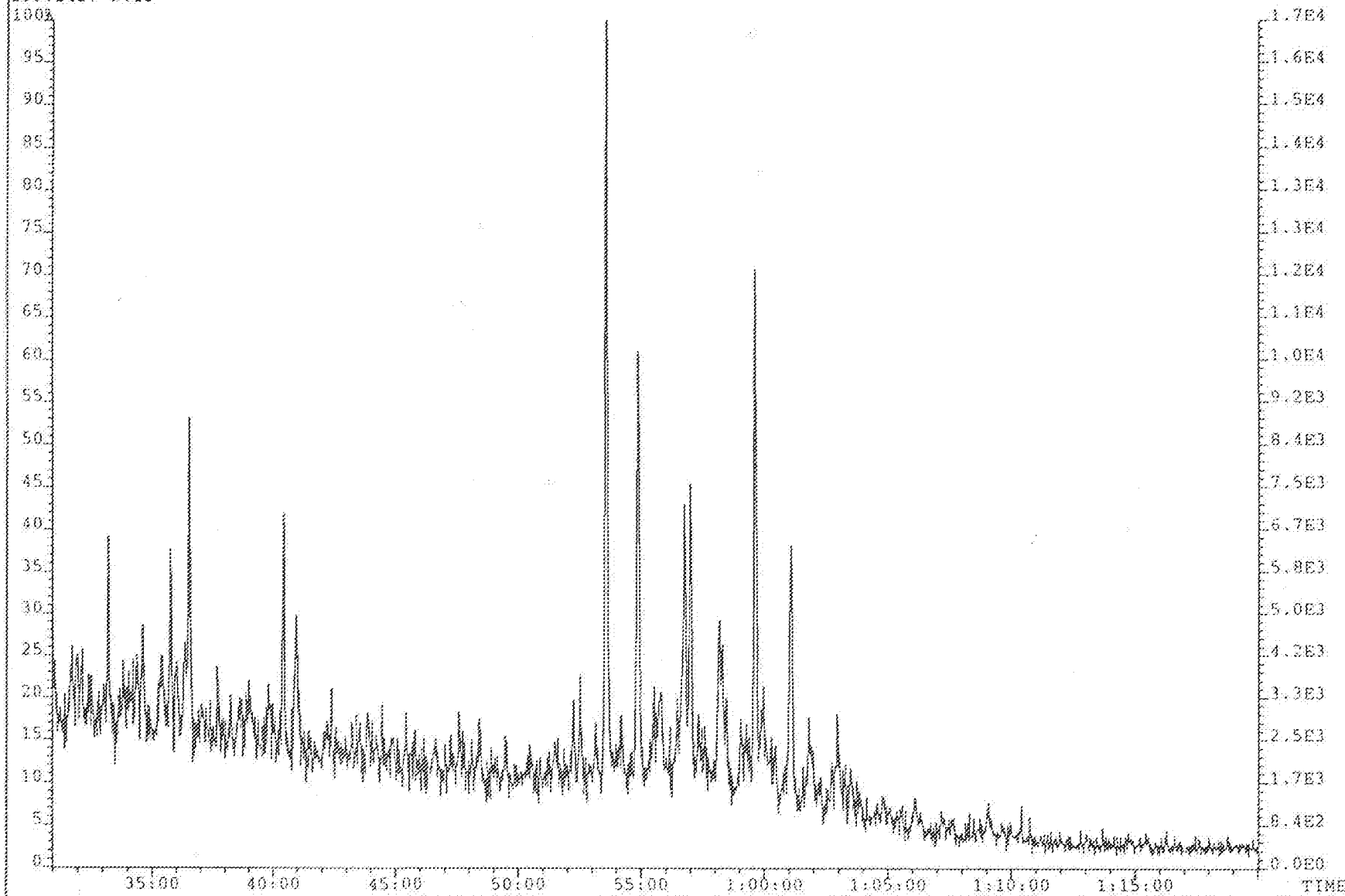
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 14:23:15 SI: Magnet SIR
Sample#13 Text:WELL 34/10-35, 4283.48M, SATURATED FRACTION
259.2427 9:13

Exp:SAT1



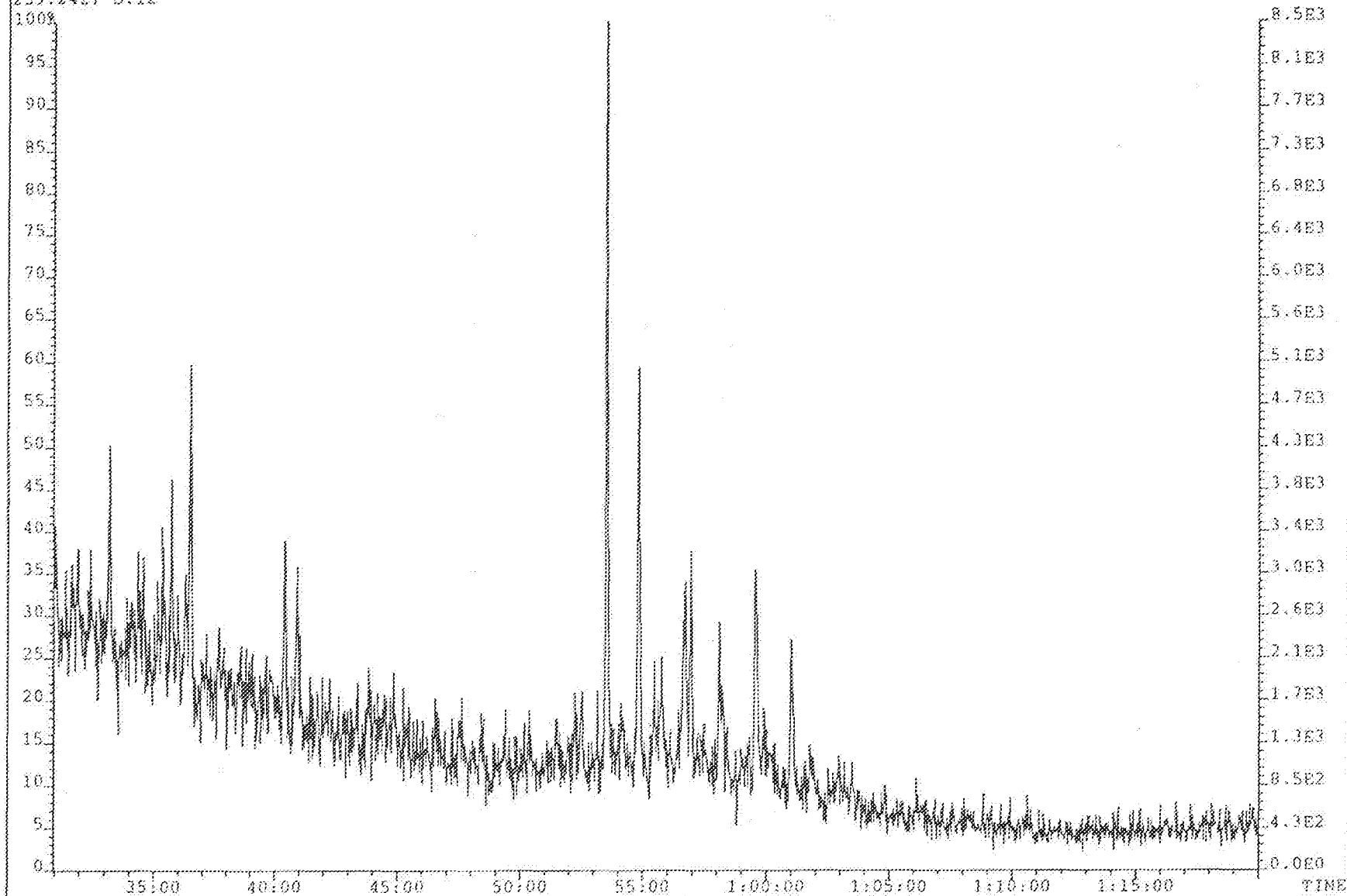
Schlumberger

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GEOLAB NOR

File: STASAT2 #1-4741 Acq: 22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#12 Text: WELL 34/10-35, 4270.75M, SATURATED FRACTION
259.2427 9:12

Exp: SAT1



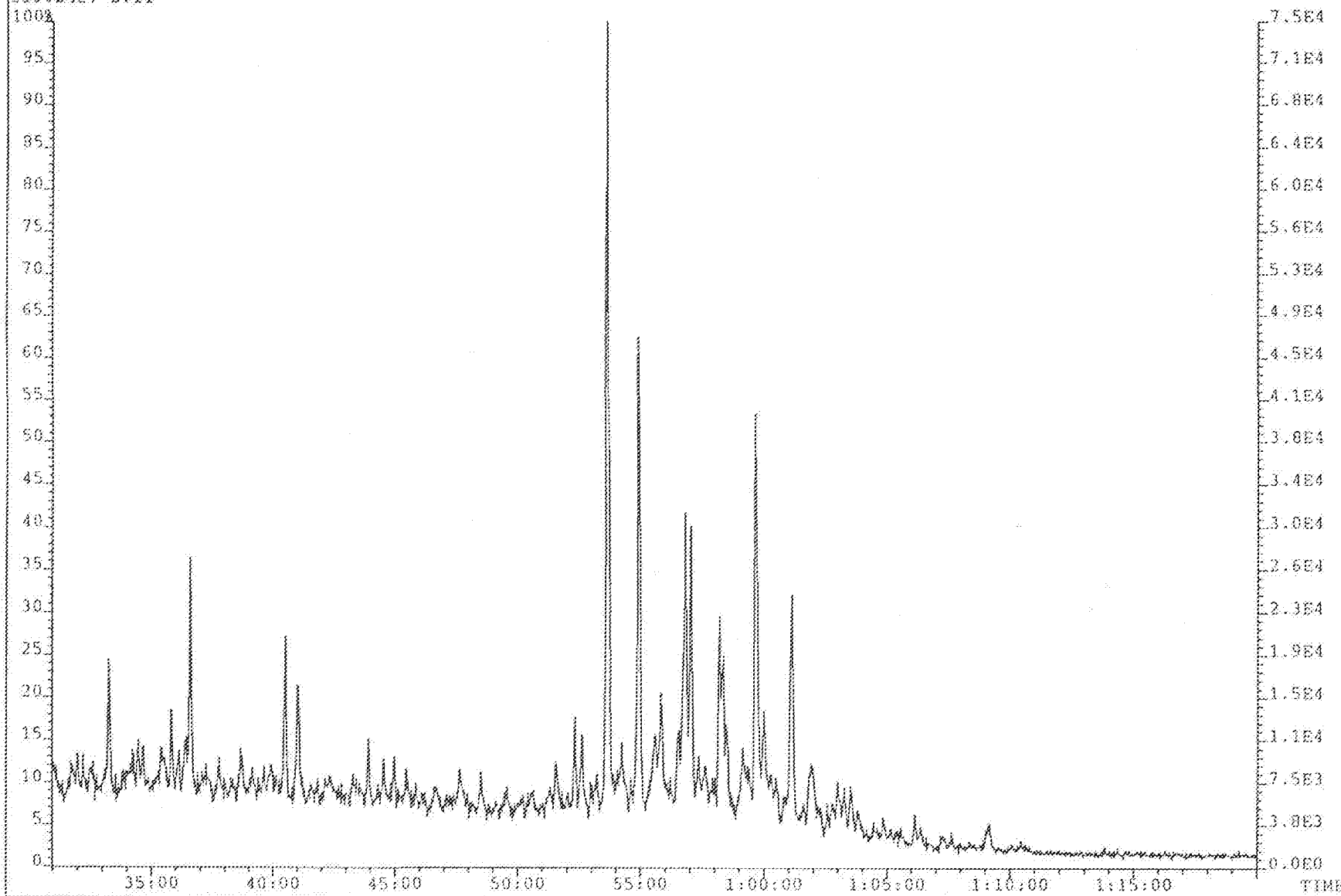
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4741 Acq:22-SEP-1992 14:23:15 EI: Magnet SIR
Sample#11 Text:WELL 34/10-35, 4257.47M, SATURATED FRACTION
259.2427 S:11

Exp:SAT1



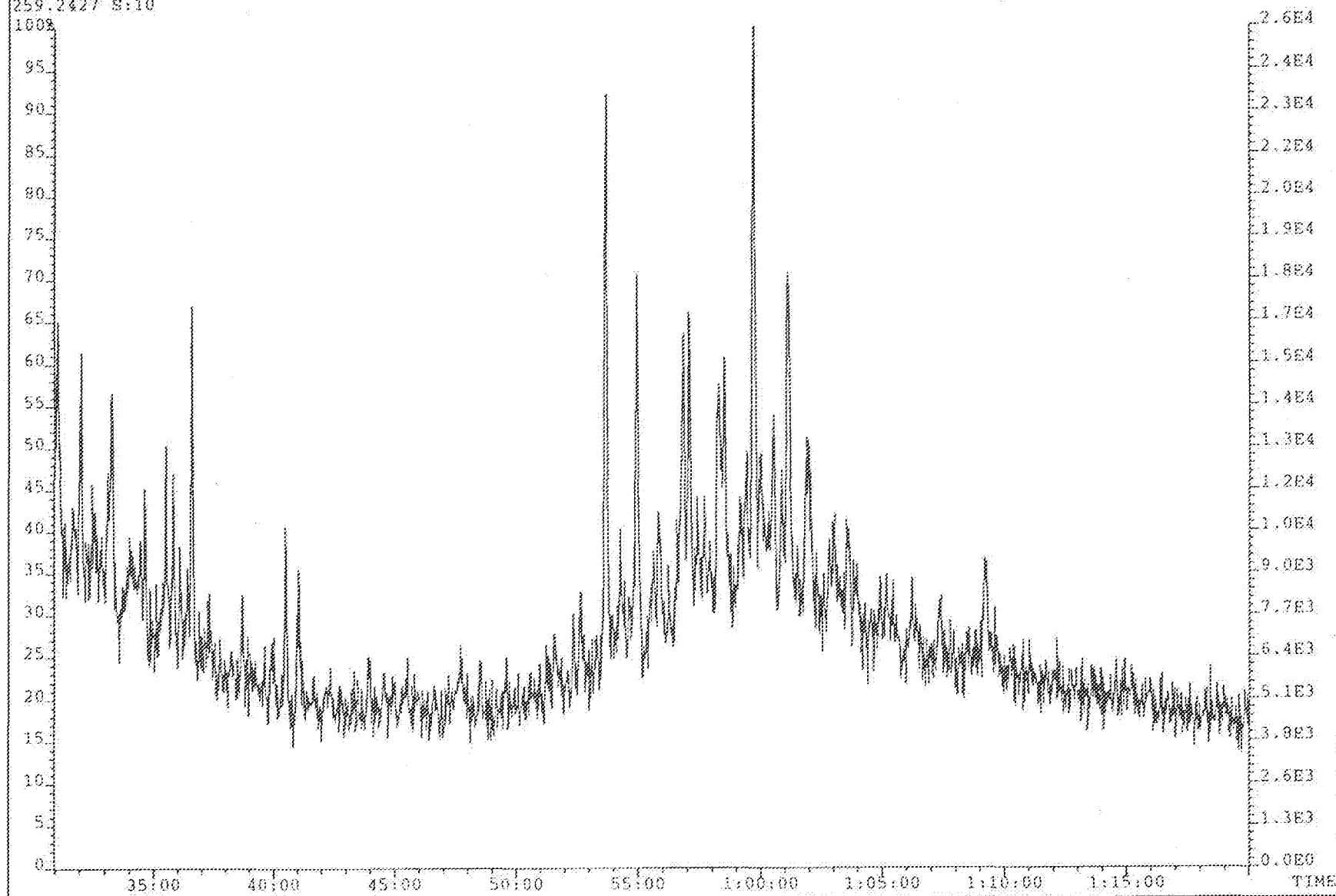
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EI: Magnet SIR
Sample#10 Text:WELL 34/10-35, 4021.93M, SATURATED FRACTION
259.2427 S:10

Exp:SAT1



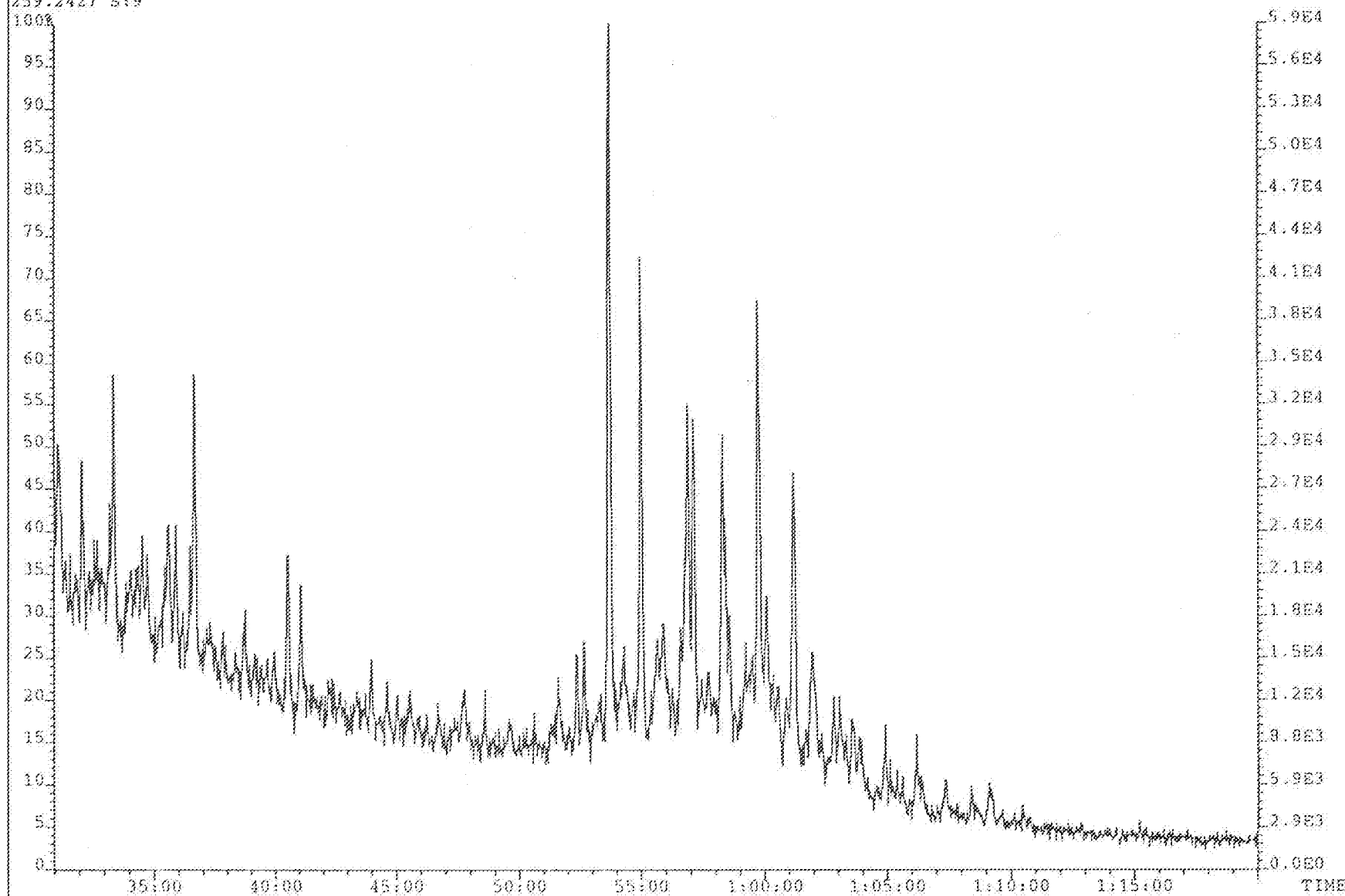
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 04:23:15 RI: Magnet SIR
Sample#9 Text:WELL 34/10-35, 4006.17M, SATURATED FRACTION
259.2427 S:9

Exp: SAT1



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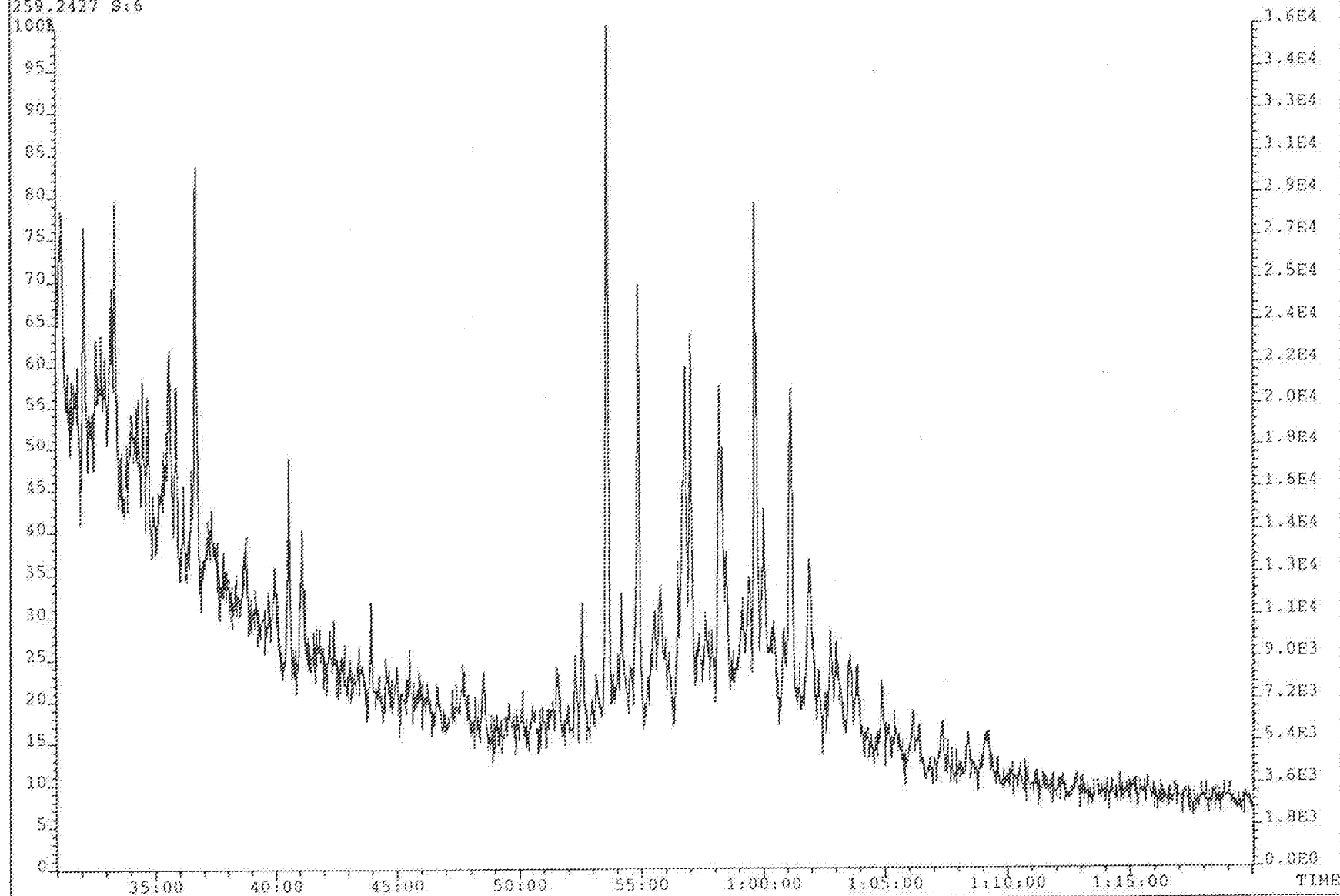
GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 04:23:15 EI+ Magnet SIR
Sample#7 Text:WELL 34/10-35, 3933.16M, SATURATED FRACTION

Exp:SAT1

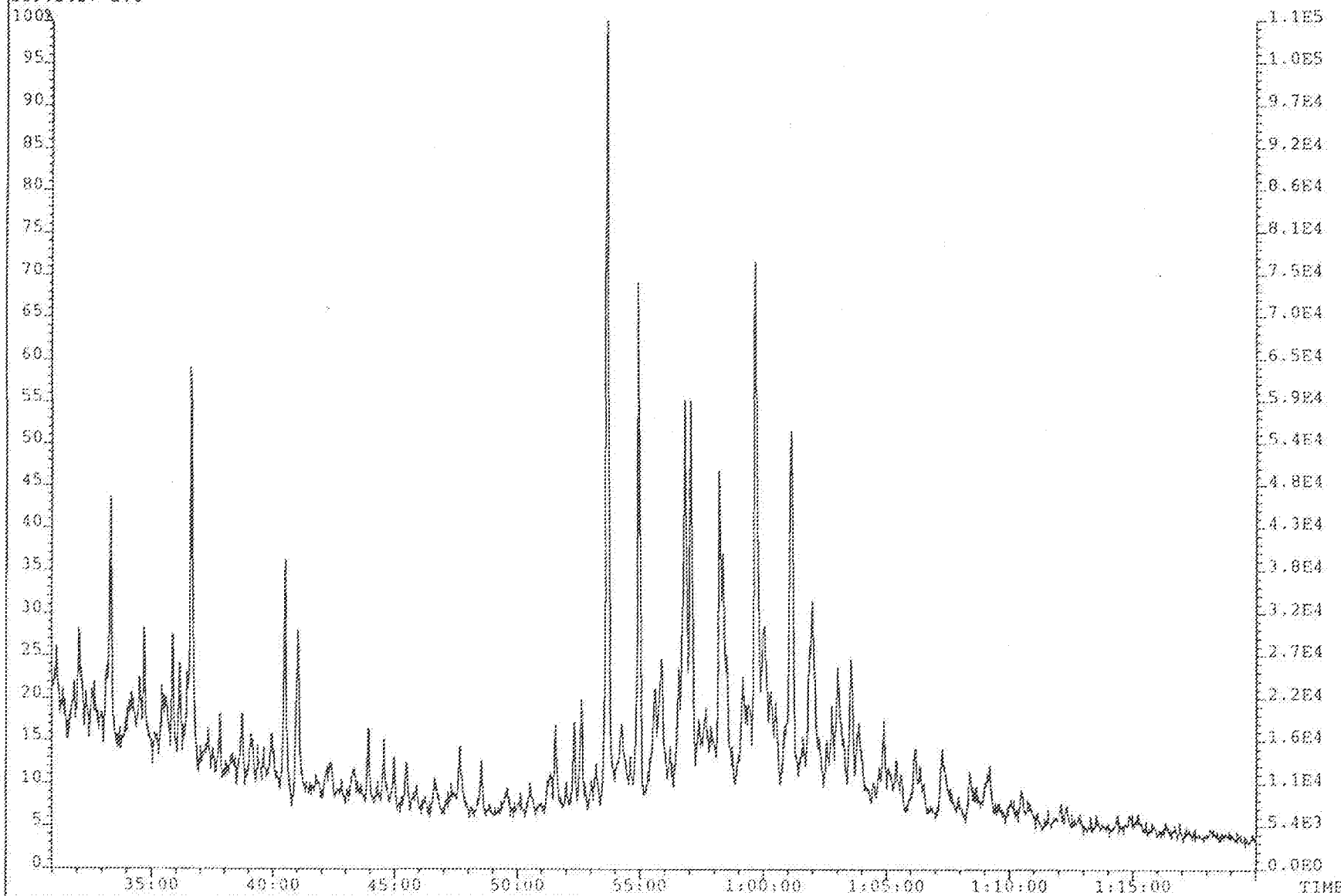
File:STATSAT2 #1-4739 Acq:22-SEP-1992 04:23:15 EI+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3931.71M, SATURATED FRACTION
259.2427 S:6

Exp:SAT1



File:STATSAT1 #1-4740 Acq:23-SEP-1992 13:10:02 E1: Magnet SIR
Sample#6 Text:WELL 34/10-35, 1894M, SATURATED FRACTION
259.2427 S:6

Exp:SAT1



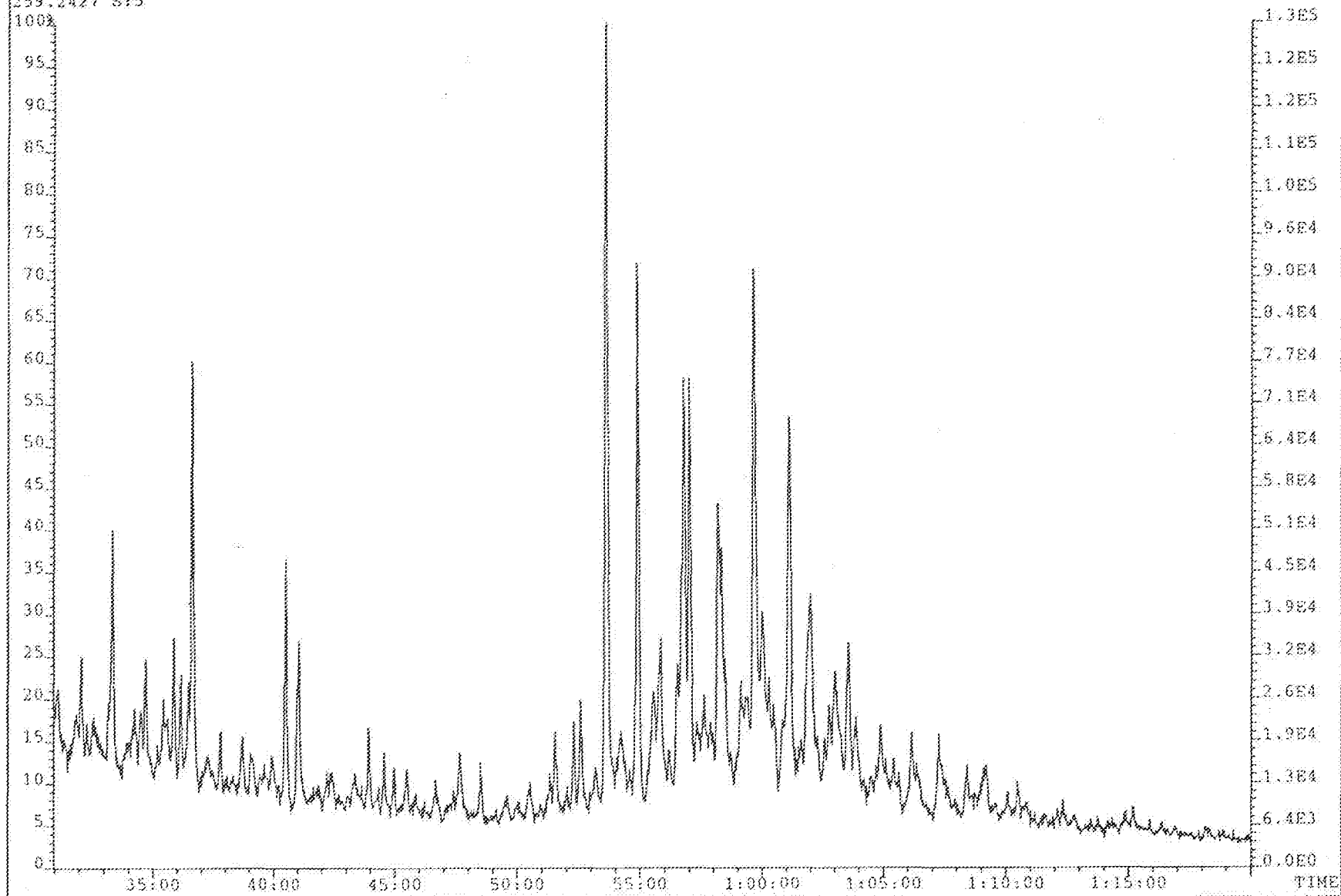
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992 13:30:02 EI+ Magnet SIR
Sample#5 Text:WELL 34/10-35, 3885M, SATURATED FRACTION
259.2427 S:5

Exp:SAT1



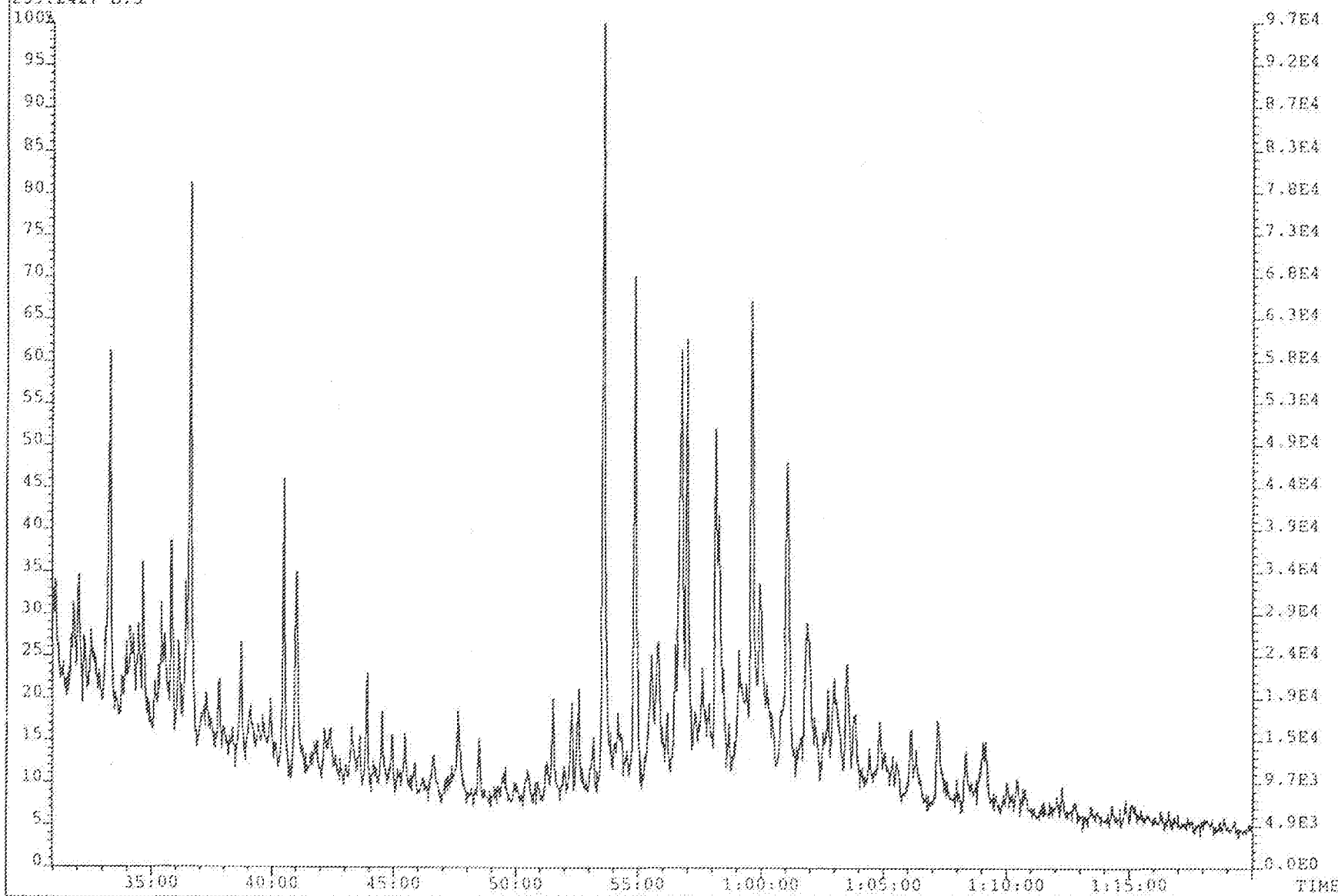
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSATZ FI-4740 Acq: 22-SEP-1992 04:33:15 EI: Magnet SIR
Sample#5 Text: WELL 34/10-35, 3852M, SATURATED FRACTION
259.2427 S:5

Exp: SAT1



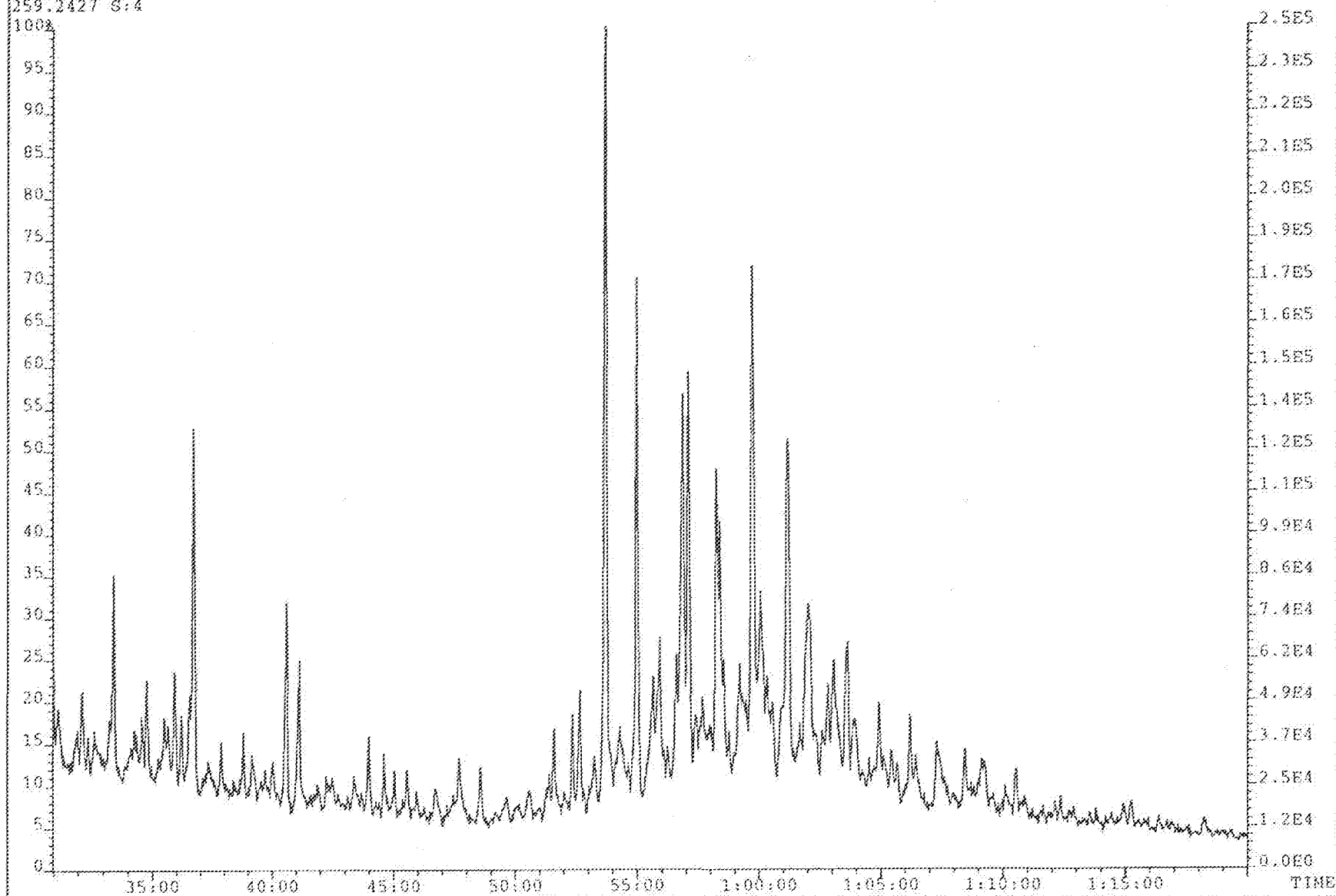
Schlumberger

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GEO LAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 14:23:15 EI: Magnet SIR
Sample#4 Text:WELL 34/10-35, 3831M, SATURATED FRACTION
259.2427 S:4

Exp:SAT1



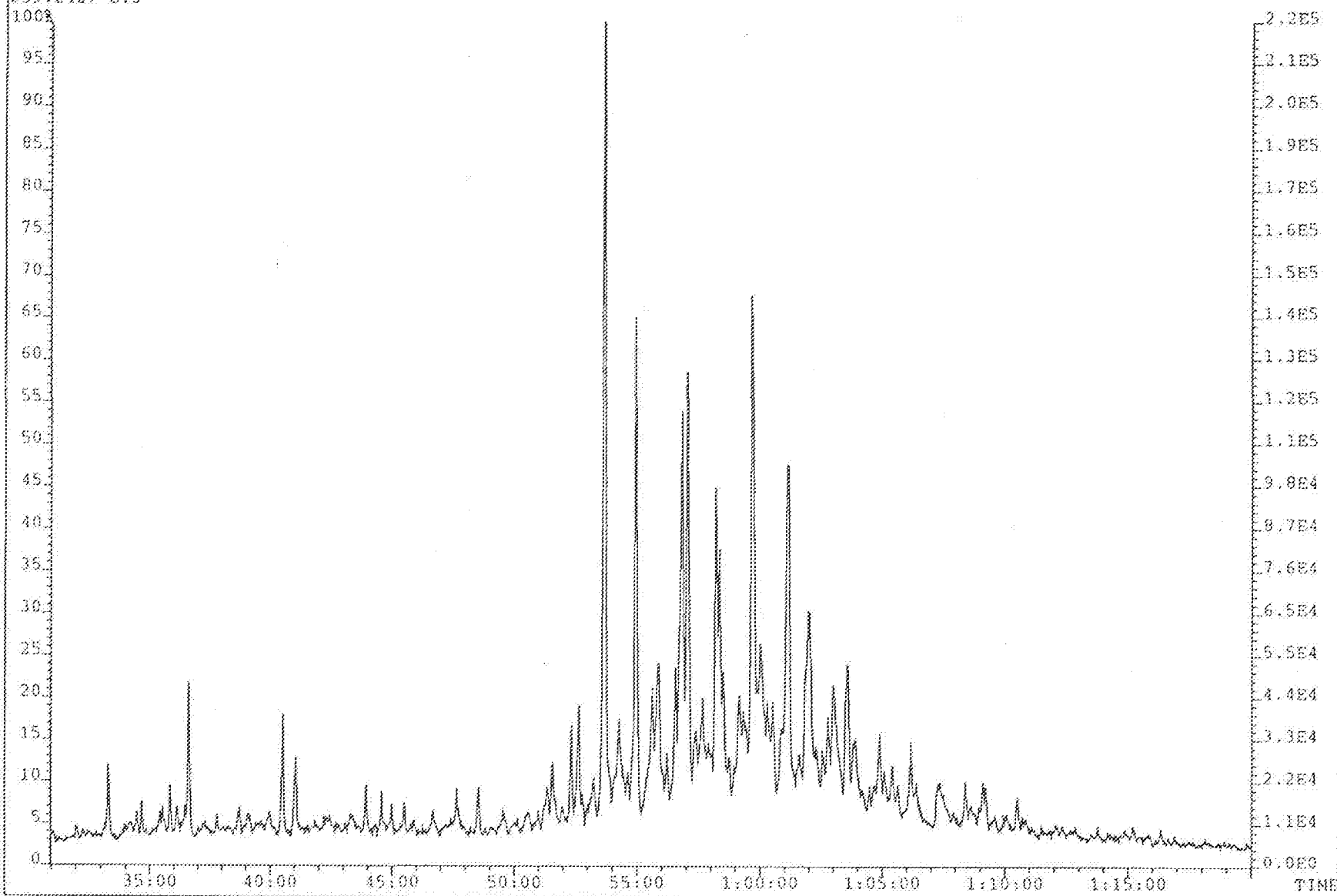
Schlumberger

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GEOLAB NOR

File:STATSAT1 #1-4719 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#3 Text:WELL 34/10-35, 3530M, SATURATED FRACTION
259.2427 S:3

Exp:SAT1

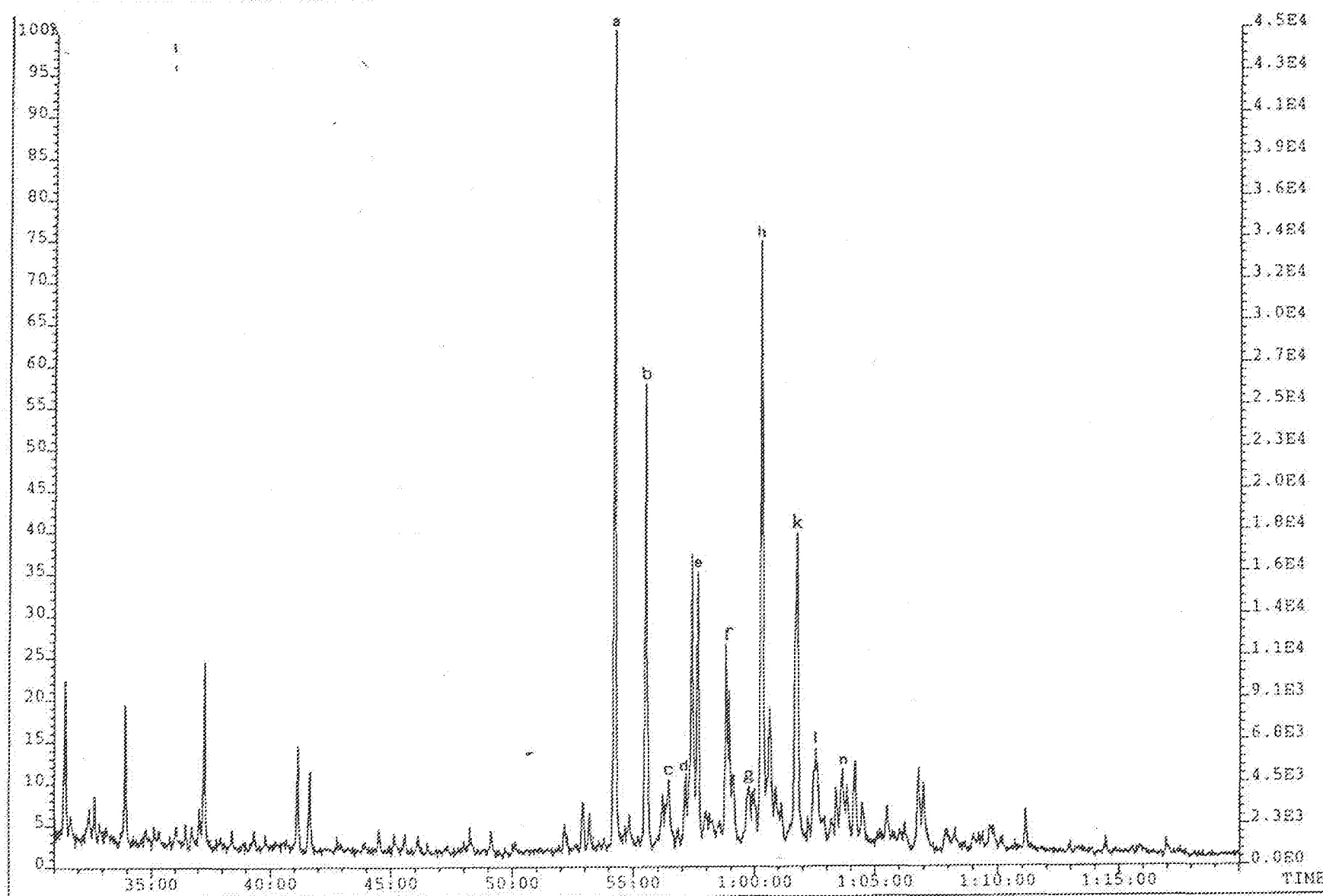


Schlumberger

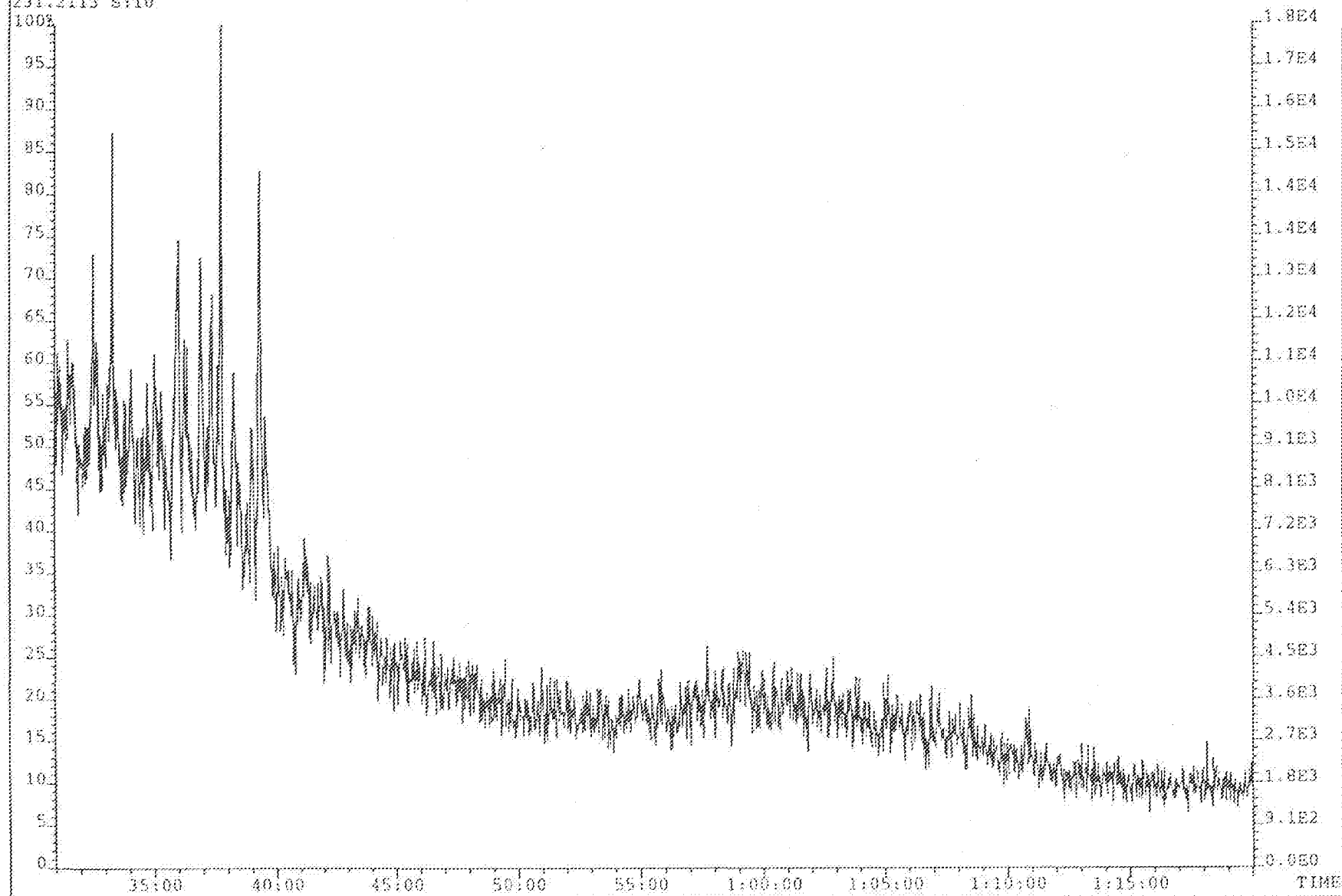
GECO-PRAKLA

GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 259 REARRANGED STERANES



File:STATSAT3 #1-473v Acq:23-SEP-1997 12:20:58 ET+ Magnet SIN
Sample#19 Text:WELL 34/10-35, OLJE OVER MUD, 3496-3504M, SAT. FRAC. FROM OIL Exp:SAT1
231.2113 S:10



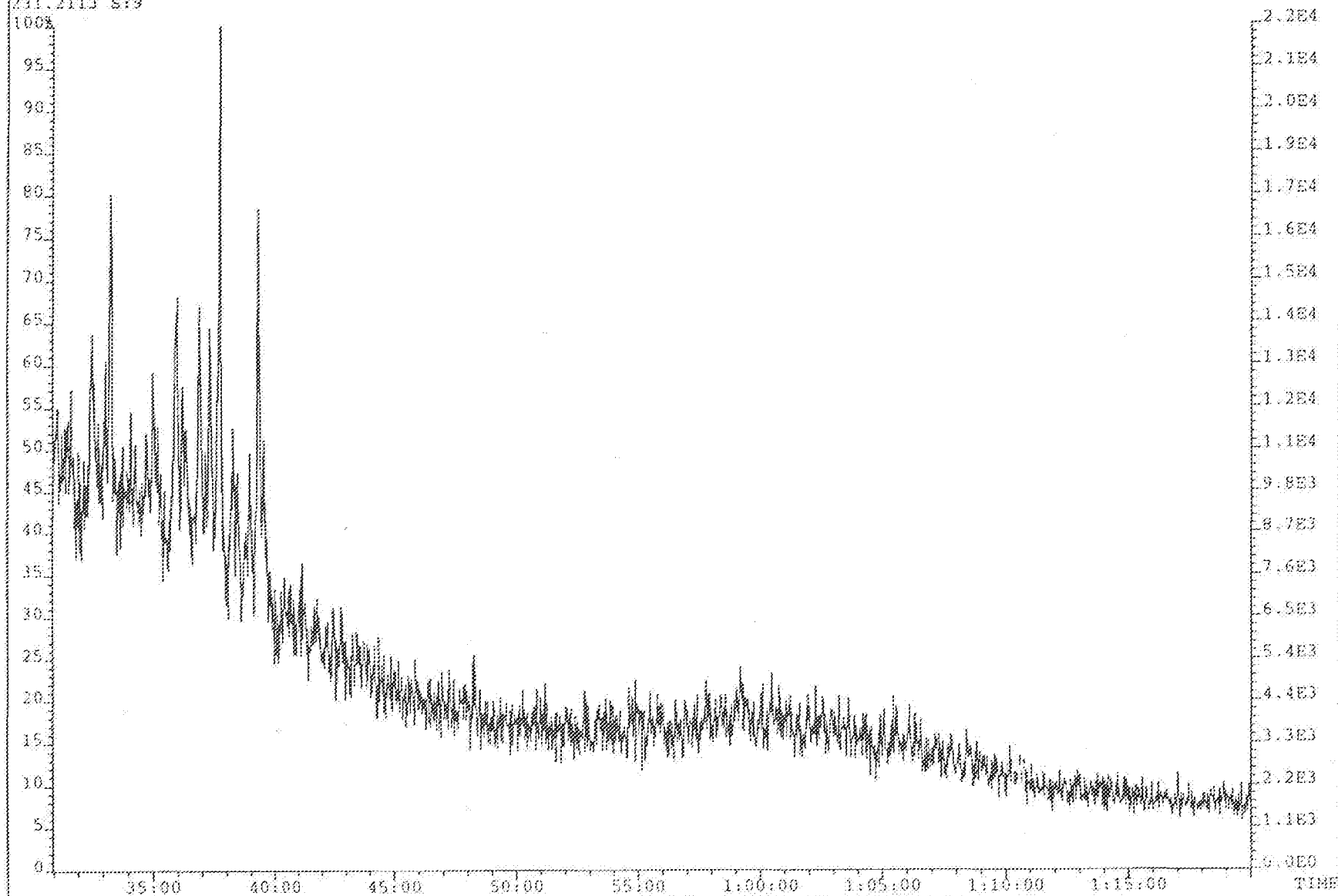
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:23-SEP-1992 12:20:58 E14 Magnet 918
Sample#9 Text:WELL 34/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL
231.2113 S:9

Exp:SAT1

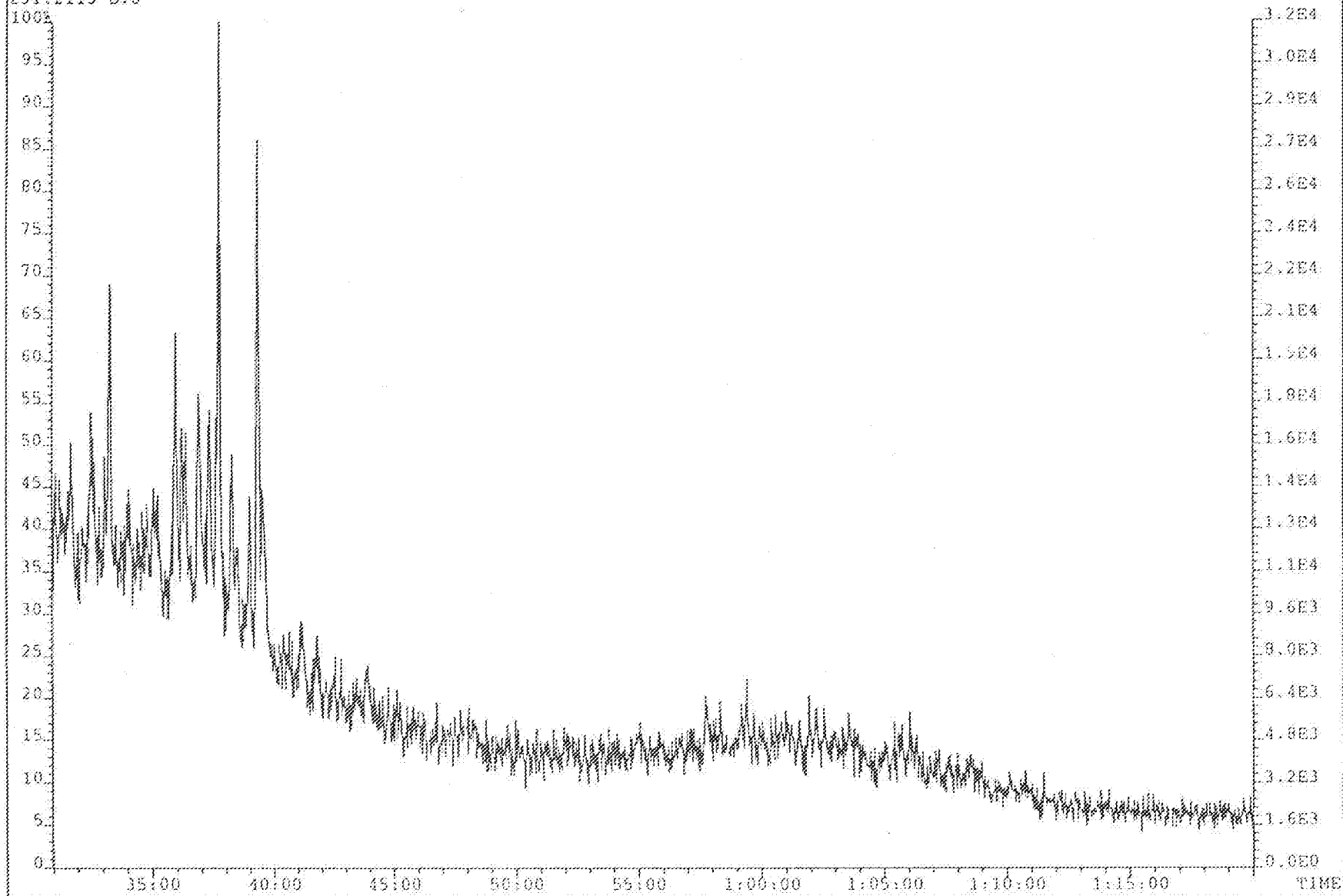


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:23-SEP-1992 12:20:58 E1+ MAGNET SIR
Sample#8 Text:WELL 34/10-35, DST2, 3984-3995M, SATURATED FRACTION FROM OIL Exp:SAT1
231.2113 S:8



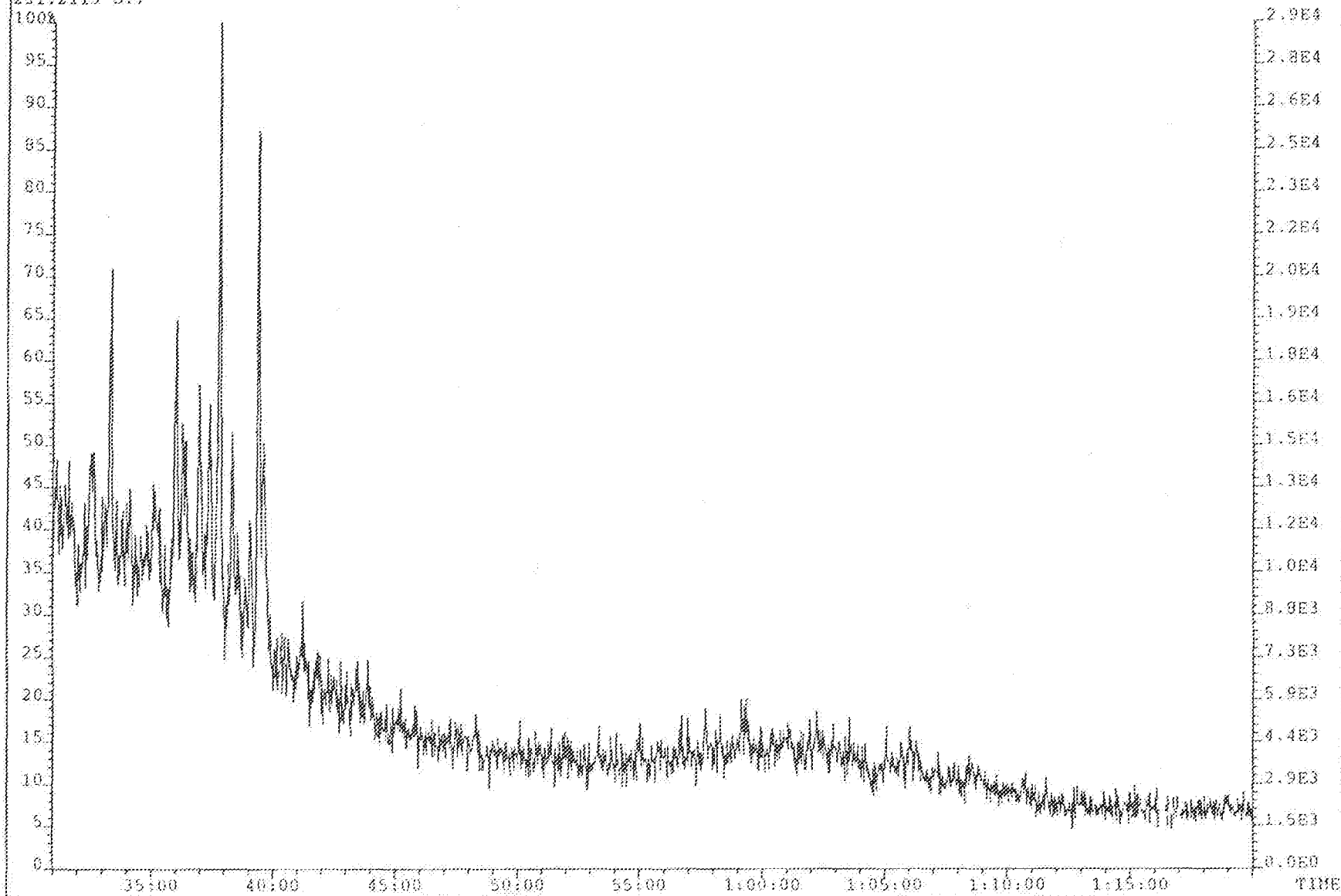
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 41-4740 Acq:23-SEP-1992 12:30:58 EI+ Magnet SIR
Sample#7 Text:WELL 34/10-35, DST1, 4015-25H, SATURATED FRACTION FROM OIL
231.2113 9:7

Exp:SAT1



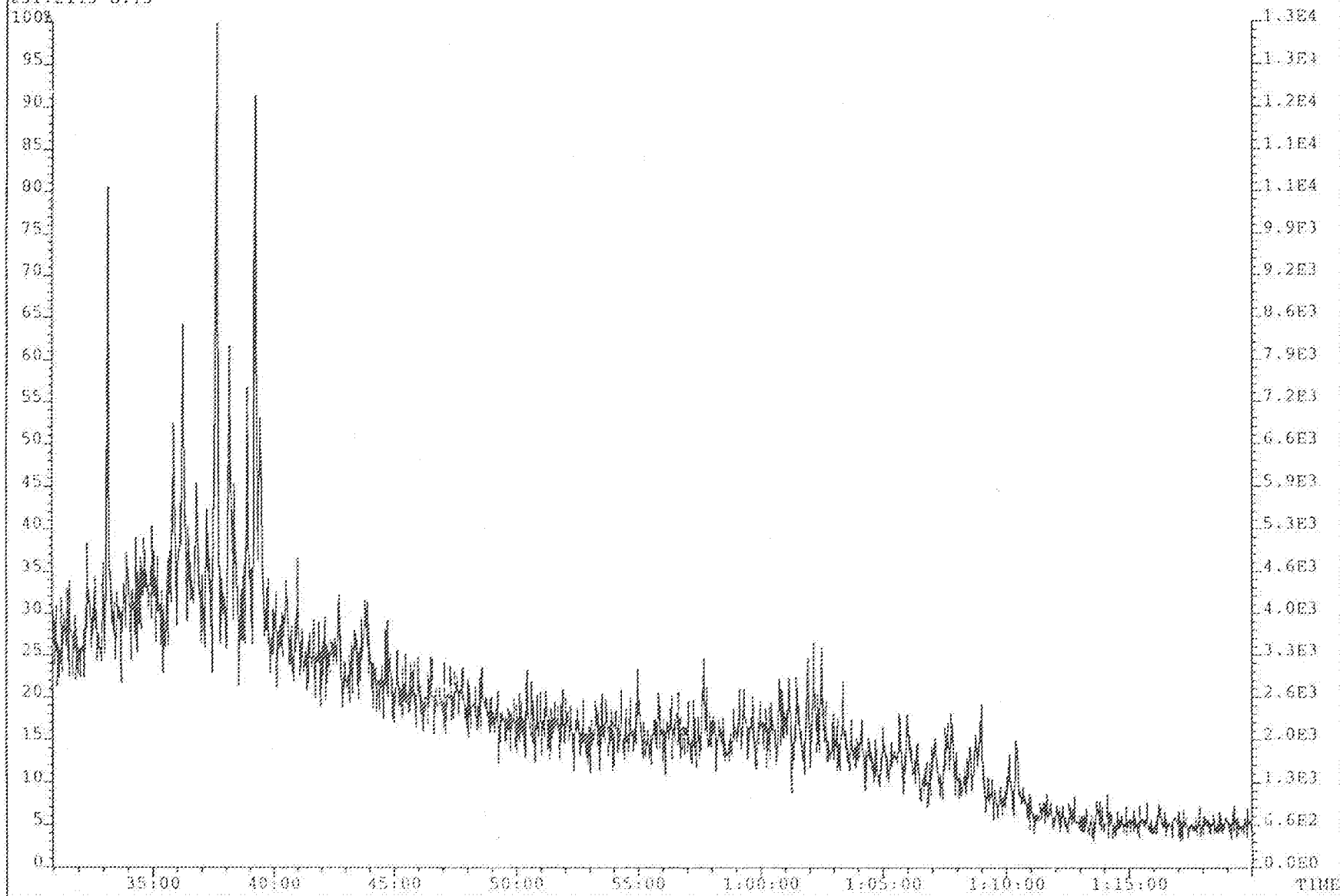
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 12:15:05 EI+ Magnet SIR
Sample#13 Text:WELL 34/10-35, 4283.48M, SATURATED FRACTION
231.2113 S:13

Exp:SAT1



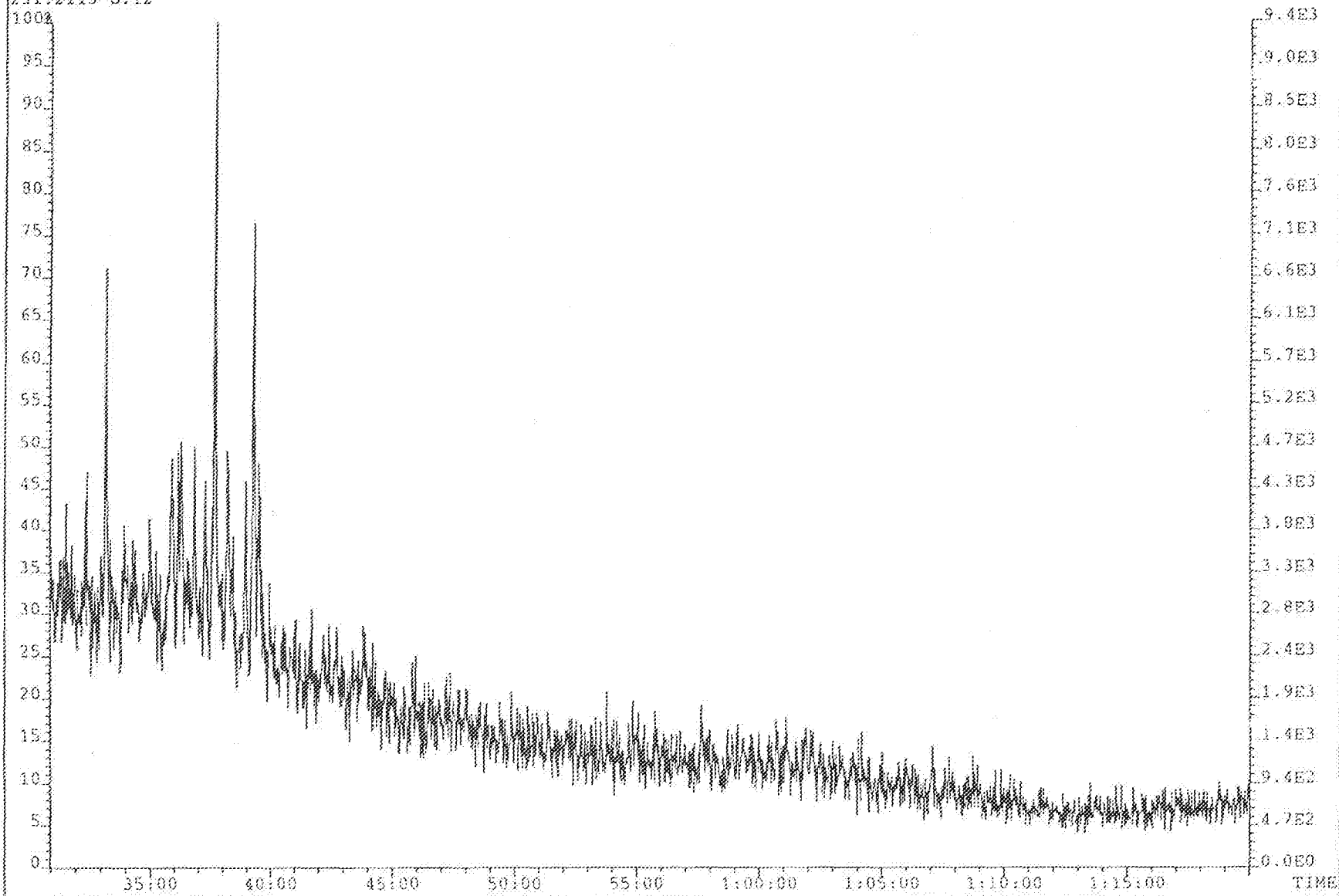
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT1 #1-4741 Acq: 22-SEP-1997 12:15:05 EI+ Magnet SIR
Sample#12 Text: WELL 34/10-35, 4270.75M, SATURATED FRACTION
231.2113 S:12

Exp: SAT1



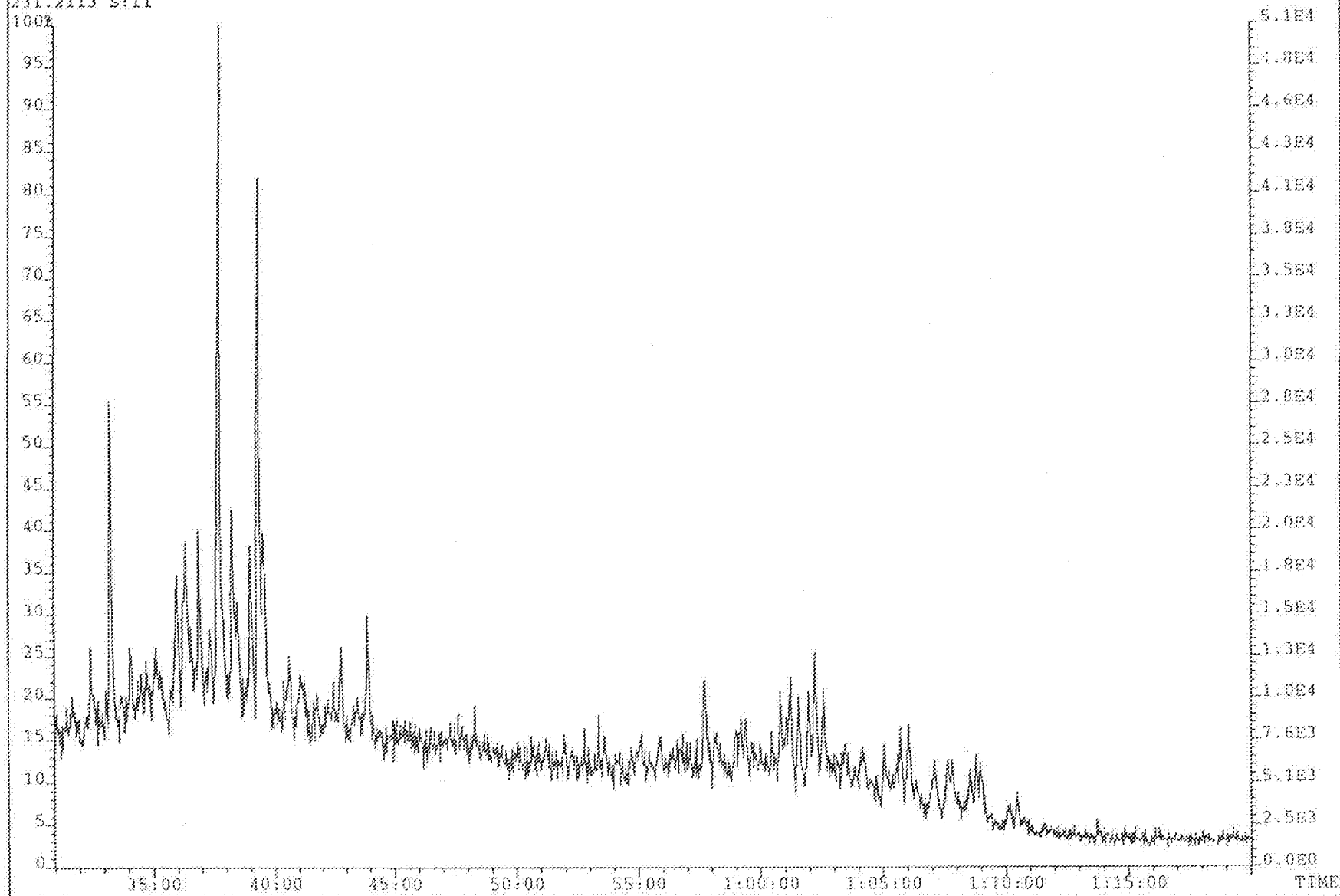
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:23-SEP-1993 12:15:05 SI4 Magnet SIR
Sample#11 Text:WELL 34/10-35, 4257.47M, SATURATED FRACTION
231.2113 9:11

Exp: SAT1



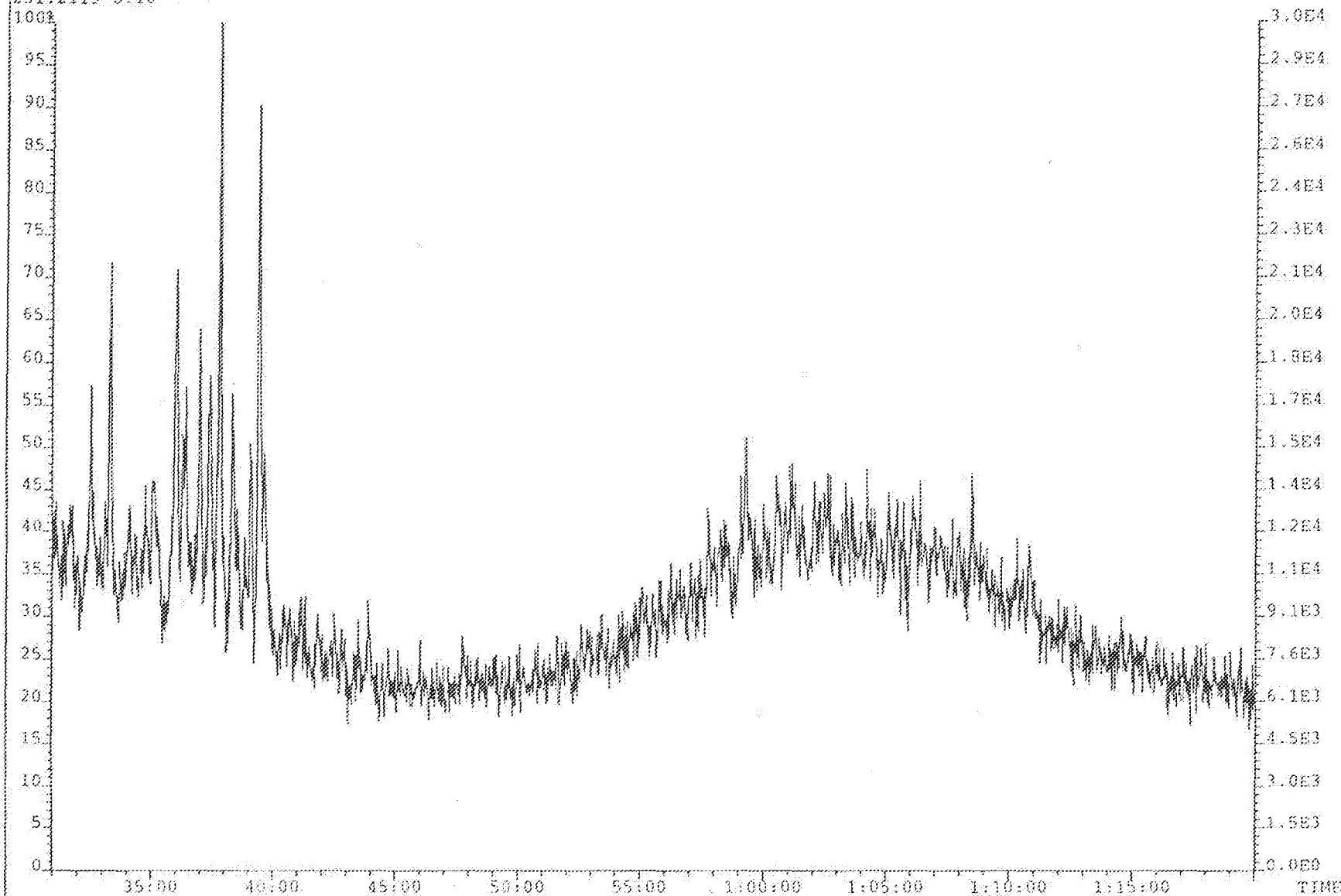
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 12:15:05 EI+ Magnet SIR
Sample#10 Text:WELL 34/10-35, 4021.93M, SATURATED FRACTION
231.2113 S:10

Exp:SAT1



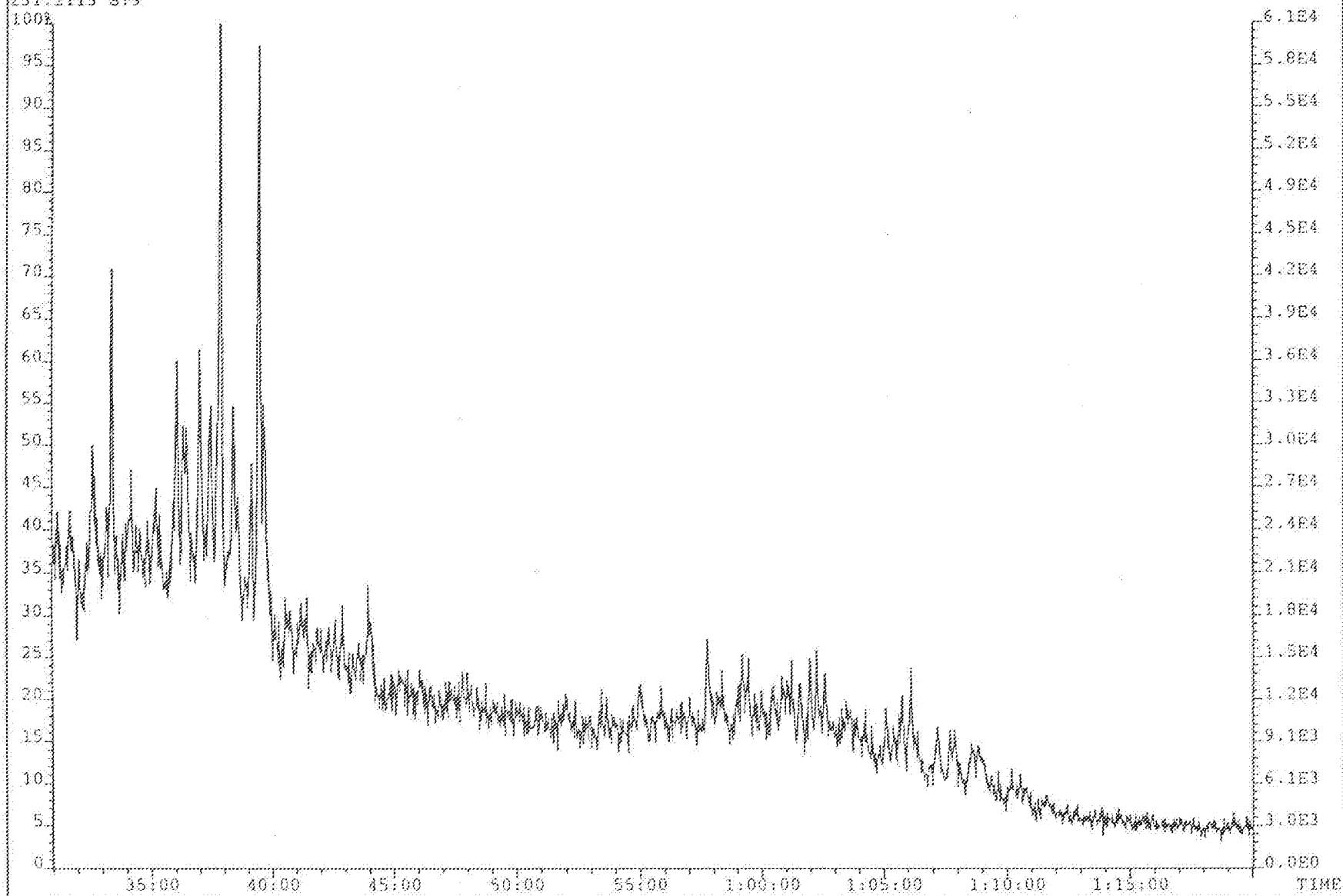
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 12:15:05 Elf Magnet SIR
Sample#9 Text:WELL 34/10-35, 4006.17M, SATURATED FRACTION
231.2113 S:9

Exp:SAT1



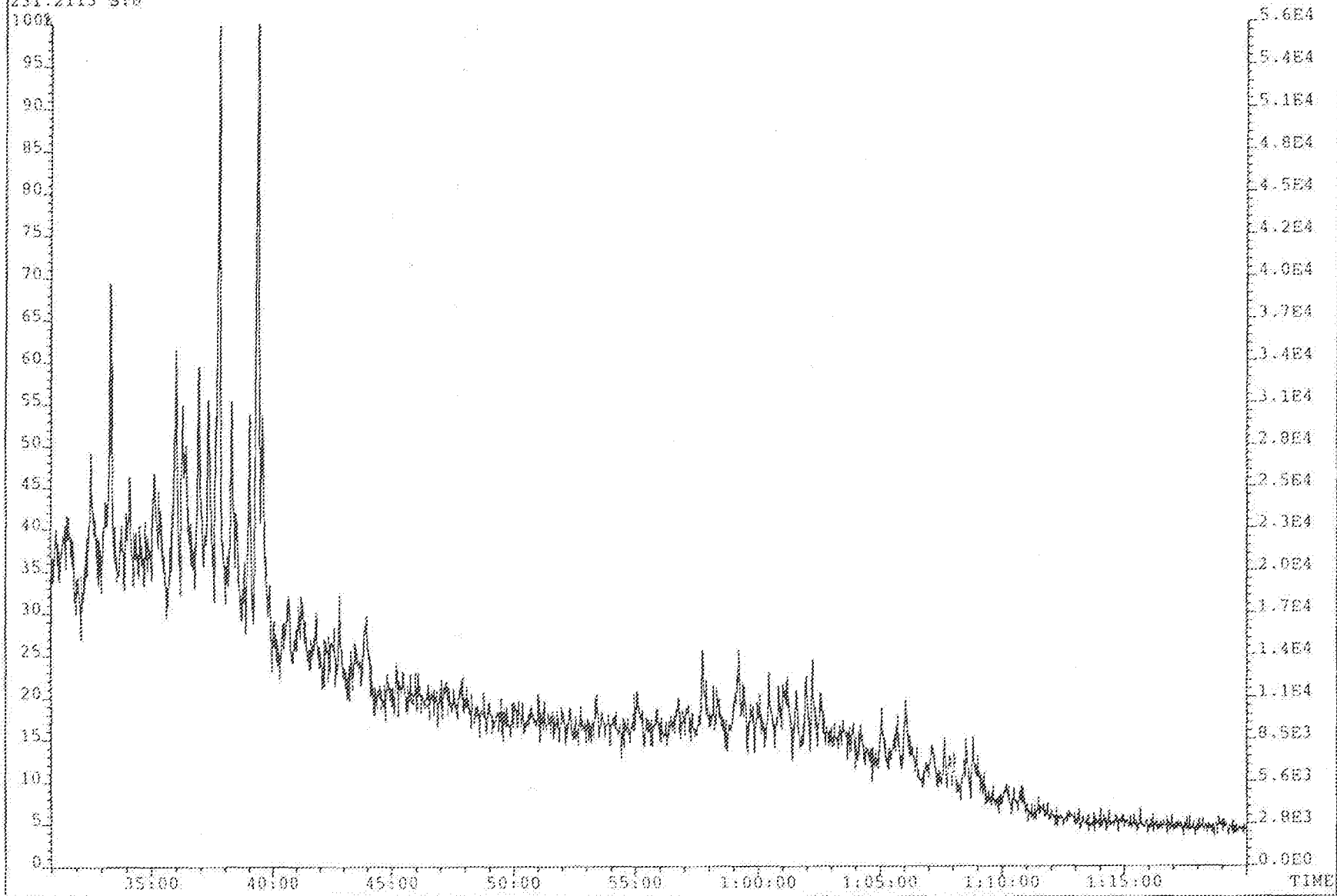
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 12:15:05 EI: Magnet SIR
Sample#8 Text:WELL 34/10-35, 3994.05M, SATURATED FRACTION
231.2113 S:8

Exp: SAT1



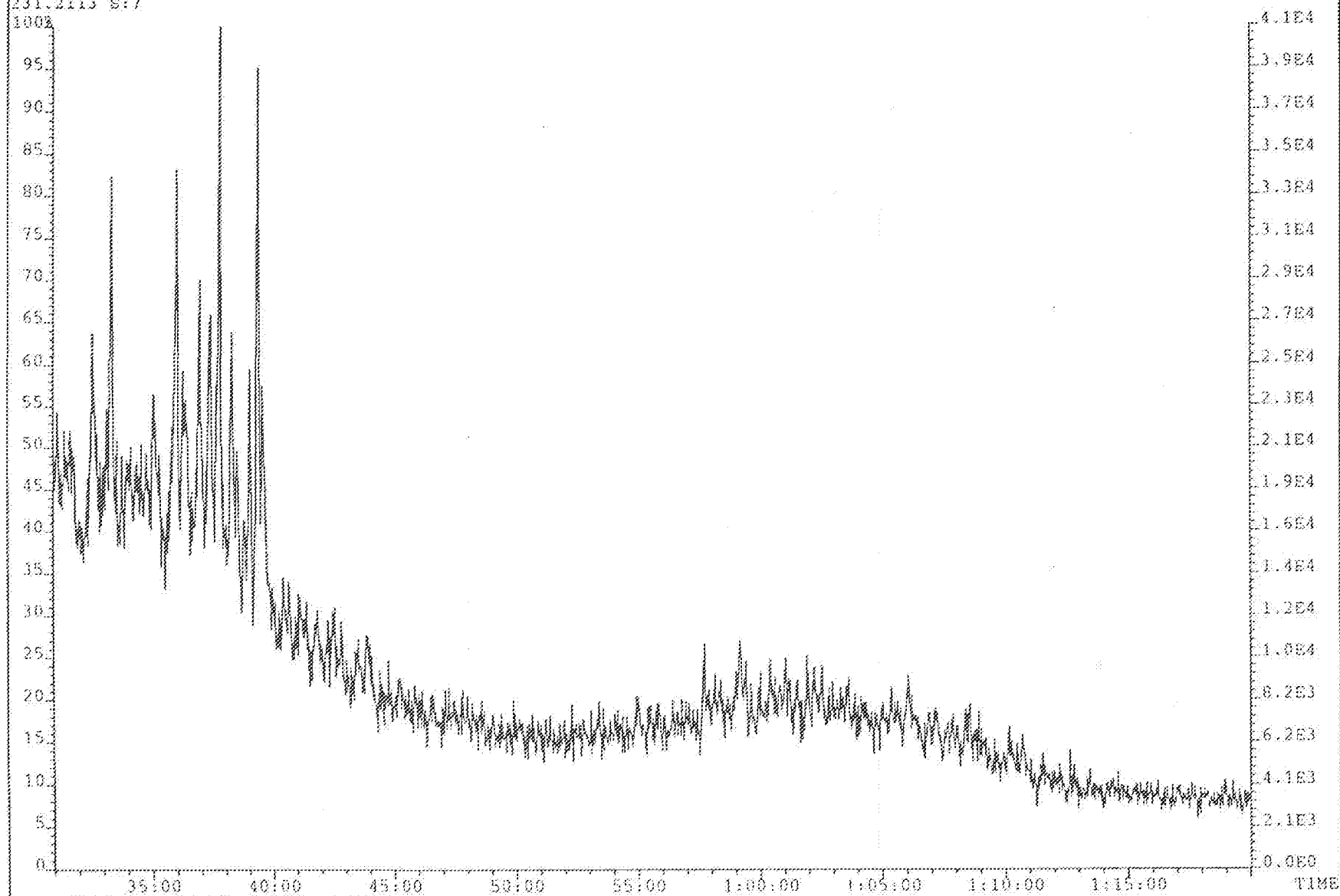
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:27-SEP-1992 12:15:05 EI+ Magnet SIR
Sample#7 Text:WELL 34/10-35, 3933.16M, SATURATED FRACTION
231.2113 S:7

Exp: SAT1



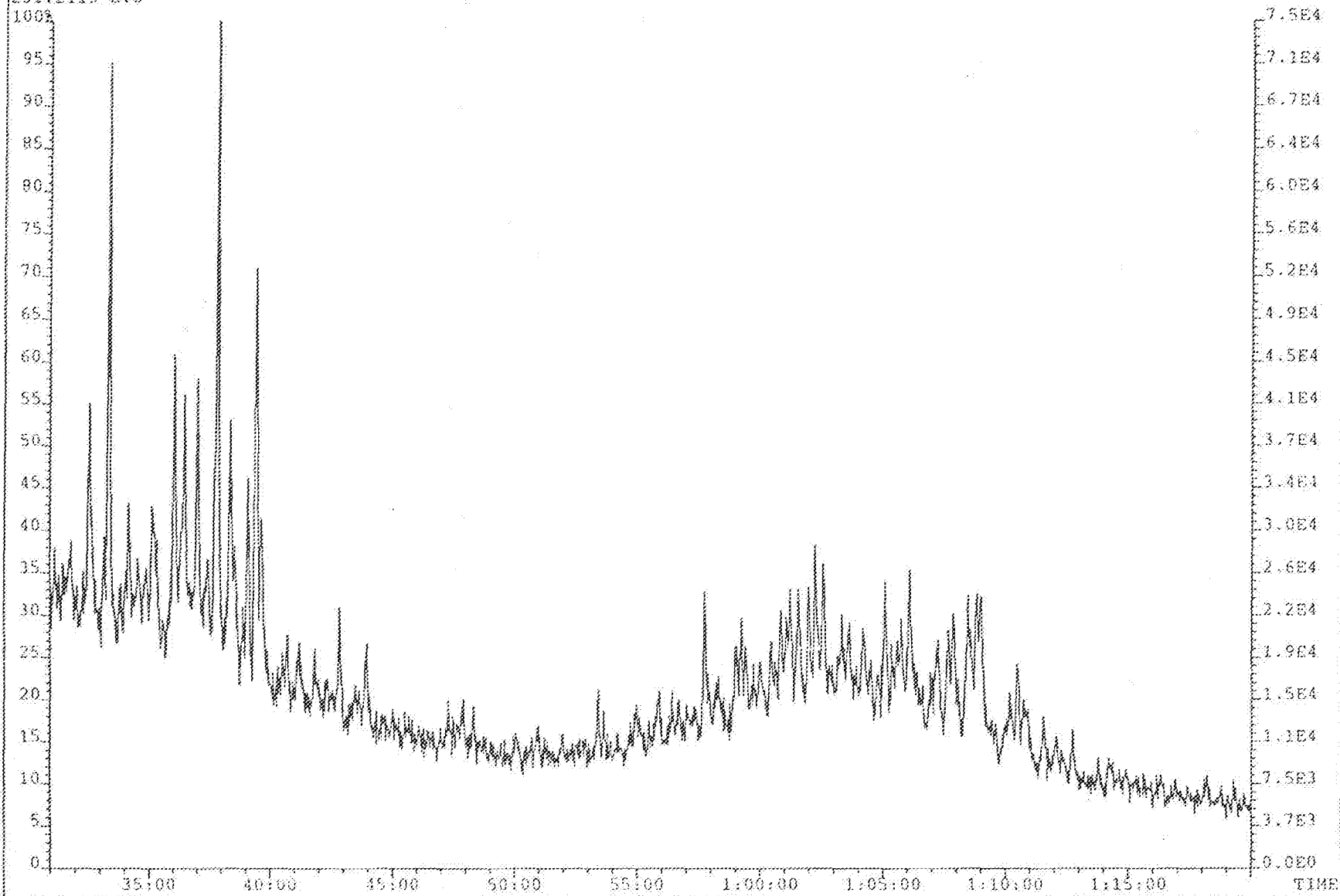
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 W1-4740 Acq:23-SEP-1997 12:20:59 EI+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3894M, SATURATED FRACTION
231.2113 S:6

Exp:SAT1



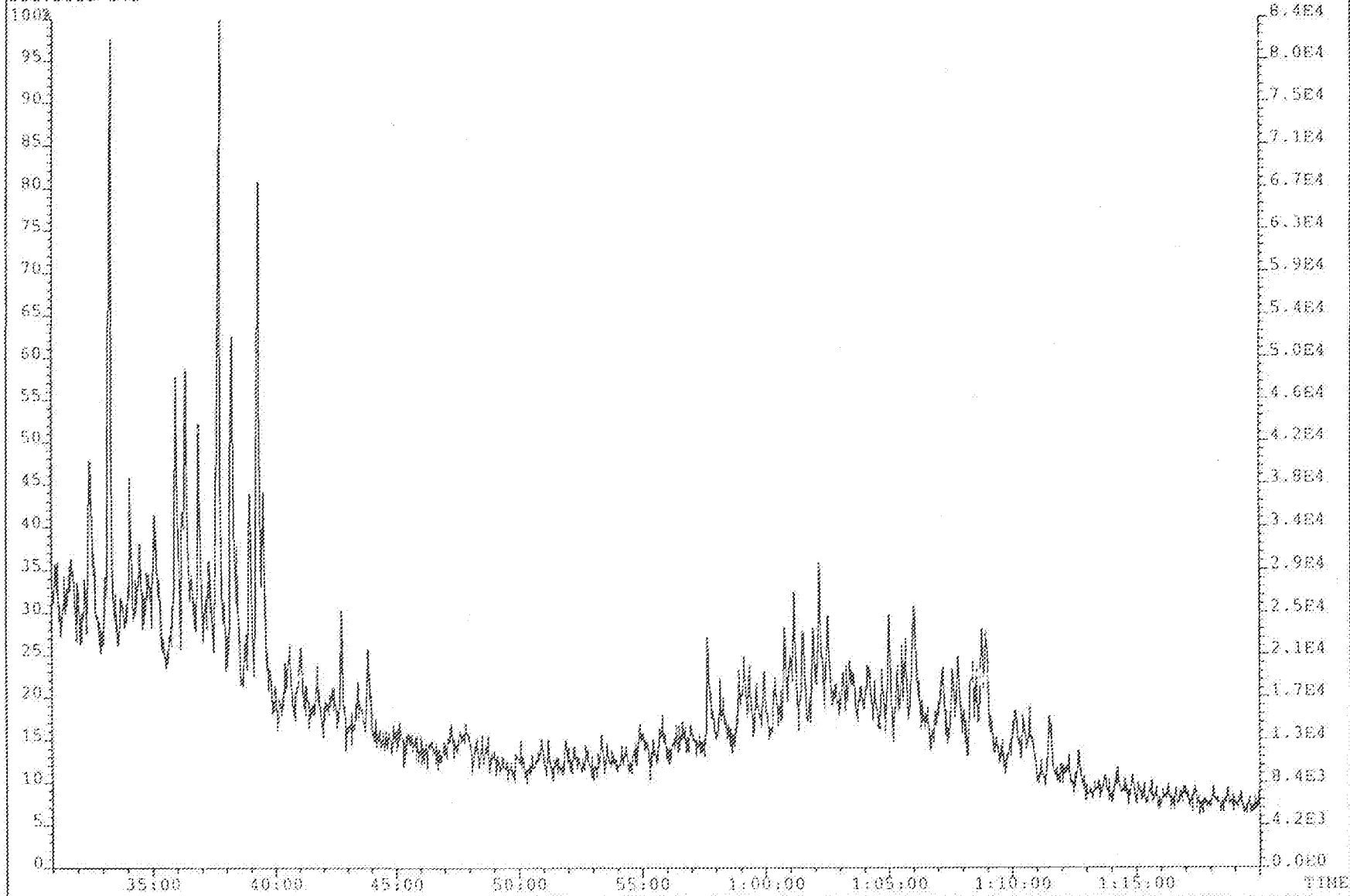
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 12:13:05 EI+ Magnet SIR
Sample#5 Text:WELL 34/10-35, 3852M, SATURATED FRACTION
231.2113 S:5

Exp:SAT1



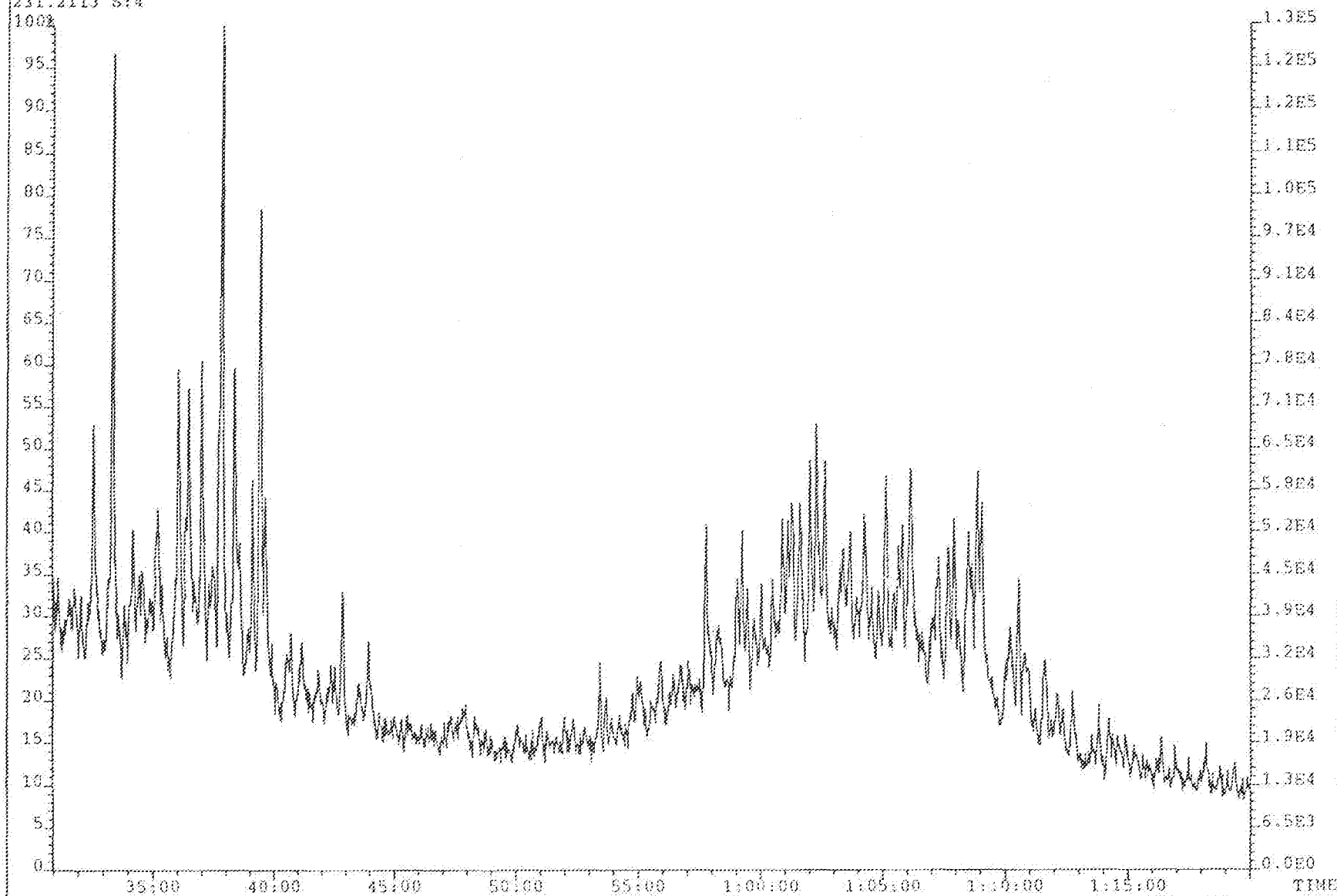
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STAISAT2 #1-4740 Acq: 22-SEP-1992 12:15:05 E1+ Magnet SIR
Sample#4 Text: WELL 34/10-35, 3831M, SATURATED FRACTION
231.2113 S:4

Exp: SAT1



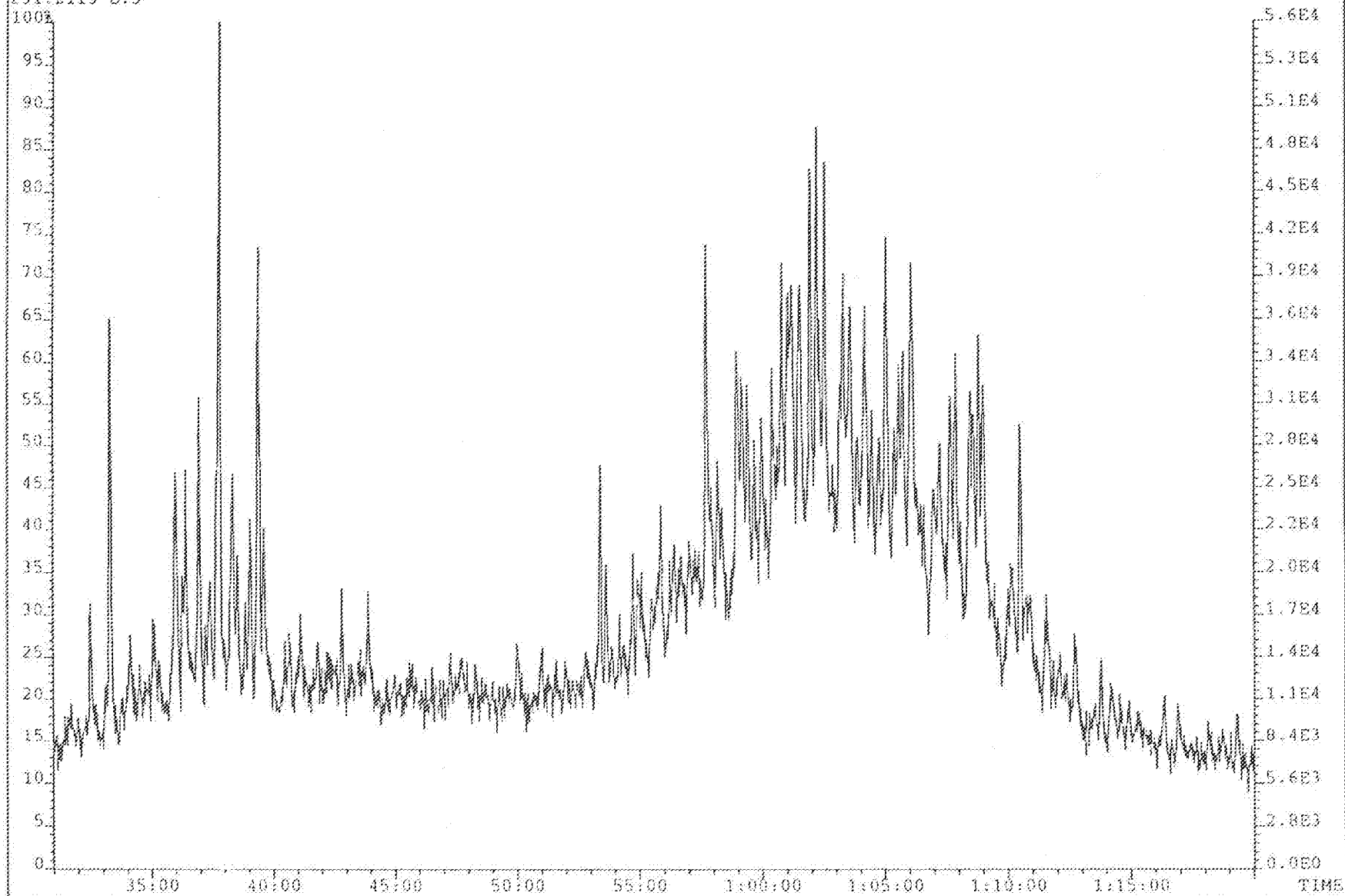
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSATZ #1-4/39 Acq:22-SEP-1992 12:15:05 EU Magnet SIR
Sample#3 Text:WELL 34/10-35, 3530M, SATURATED FRACTION
231.2113 S:3

Exp:SAT1

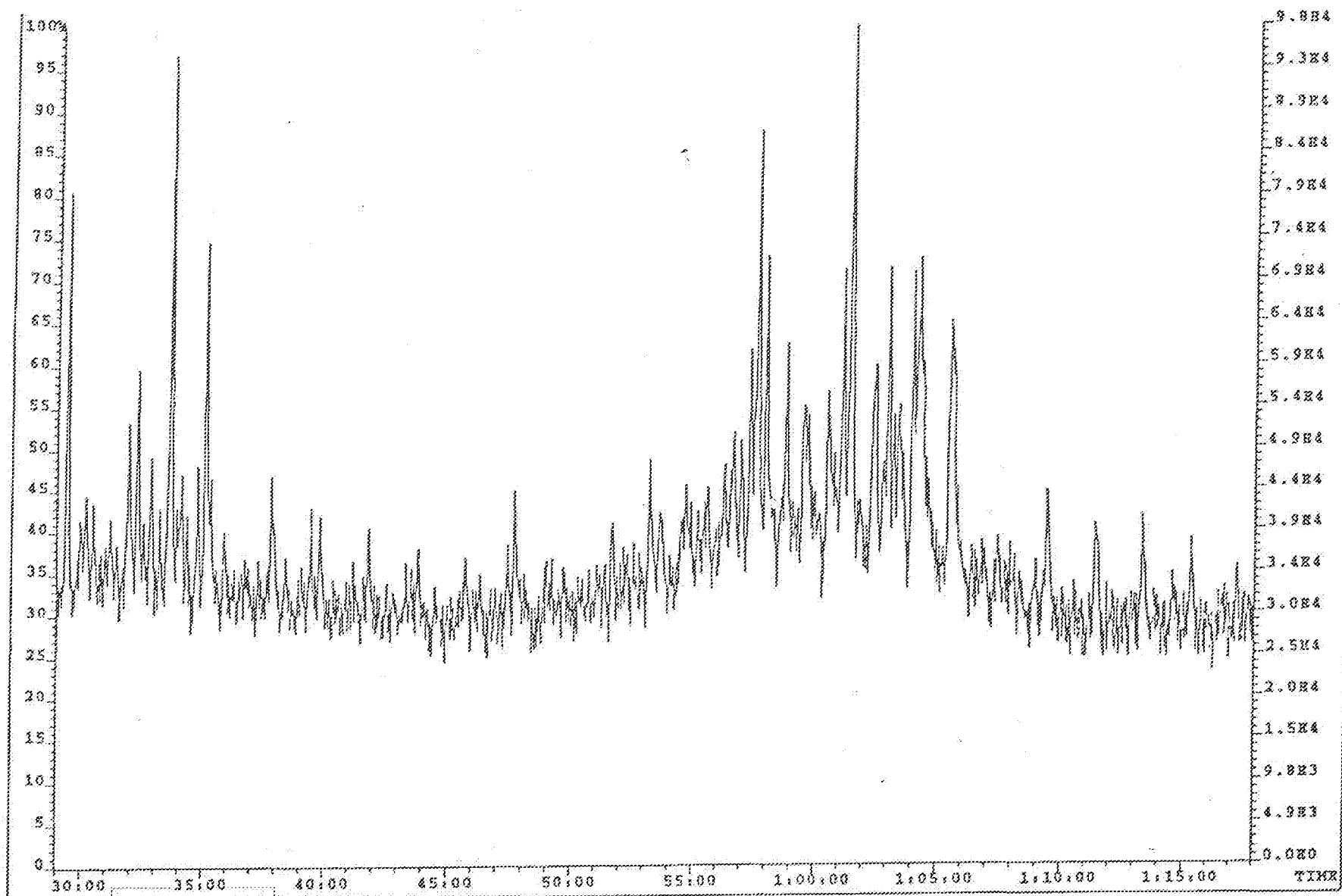


Schlumberger

GECO-PRAKLA

GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 231 METHYL STERANES

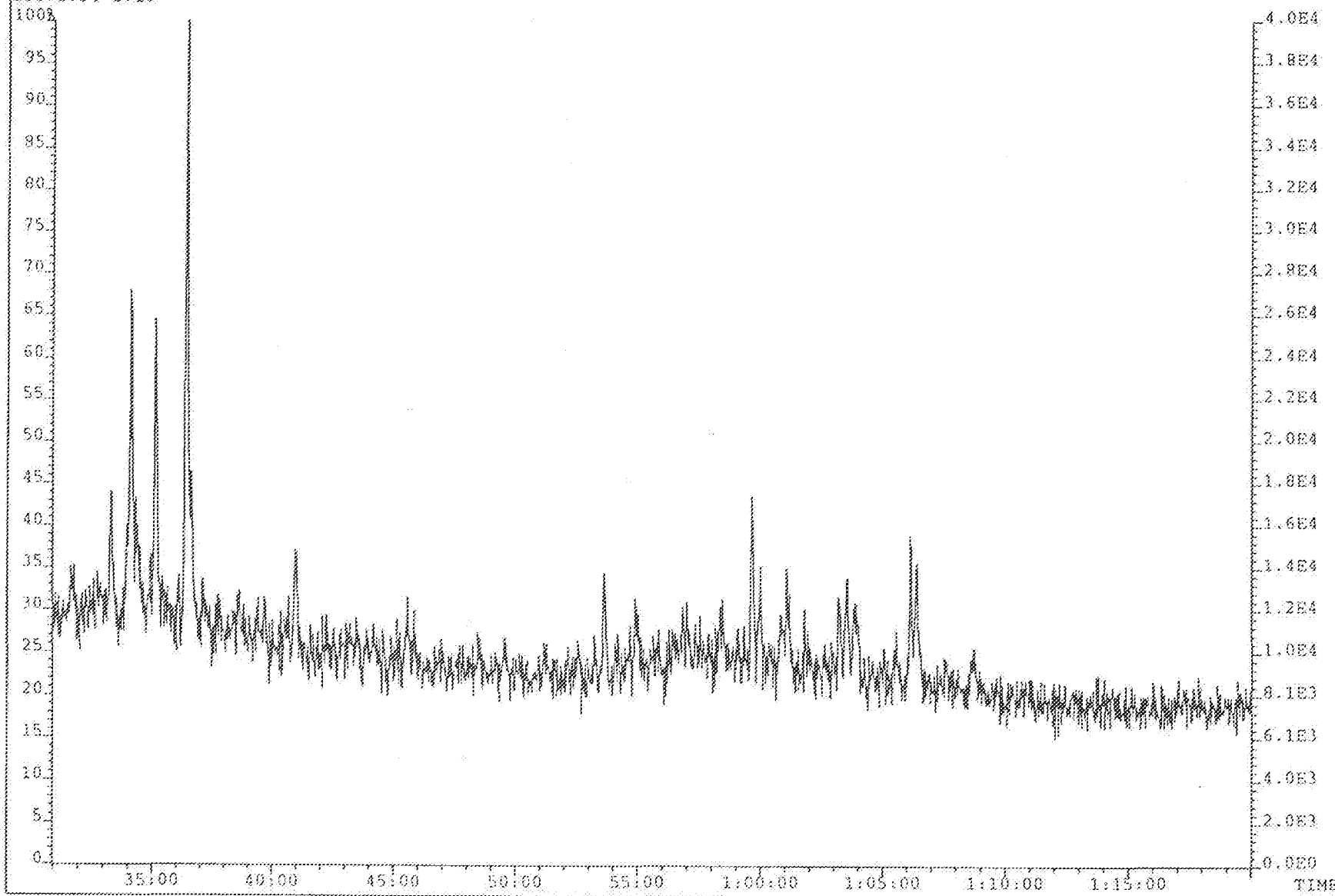


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4739 Acq:23-SEP-1992 11:30:02 EI: Magnet 91K
Sample#10 Text:WELL 34/10-35, OLJE OVER MOD, 3496-3504M, SAT. FRAC. FROM OIL Exp:SAT1
218.2034 S:10

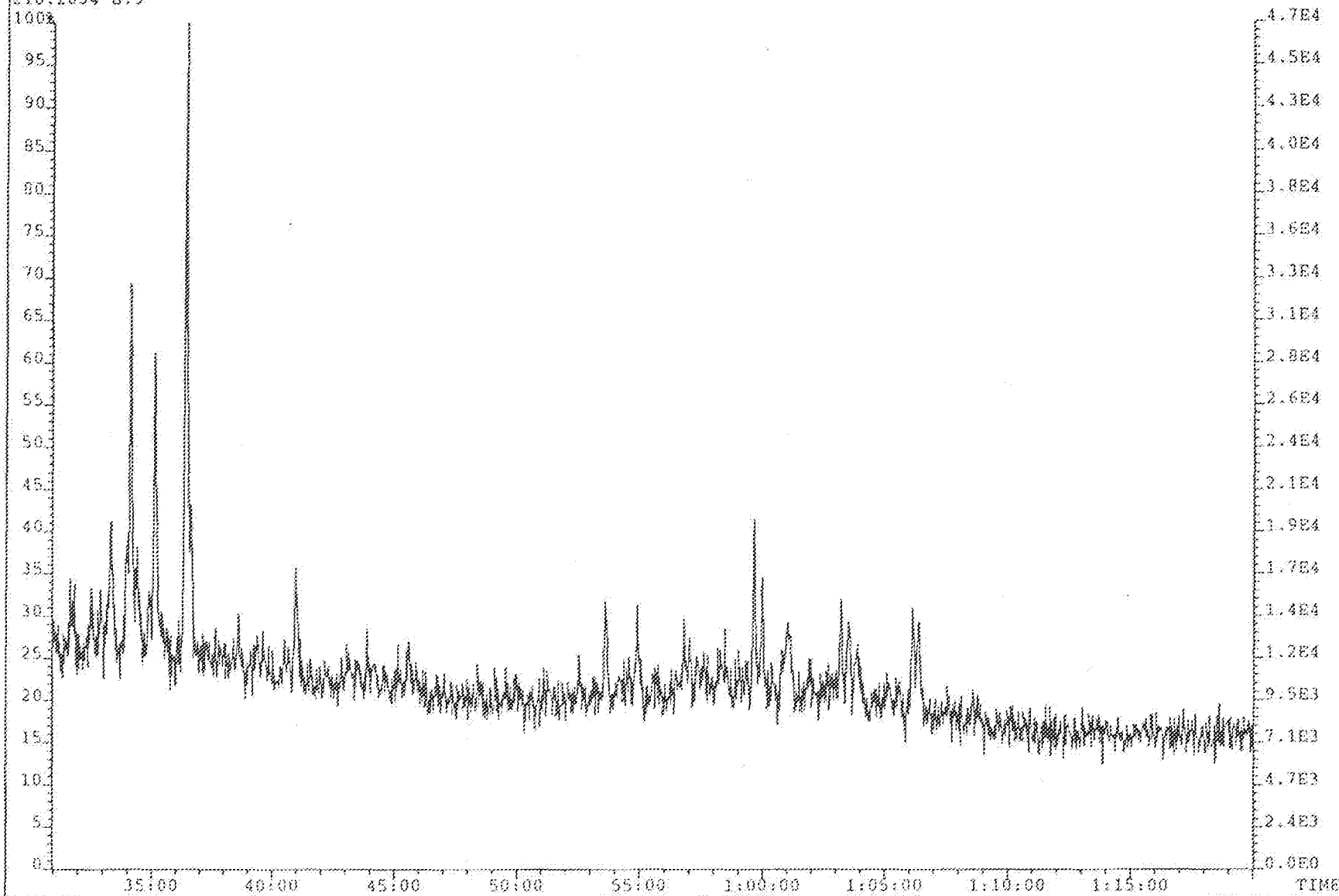


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:2J-SEP-1992 13:30:02 EI+ Magnet SIR
Sample#9 Text:WELL 34/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL Exp:SAT1
218.2034 S:9

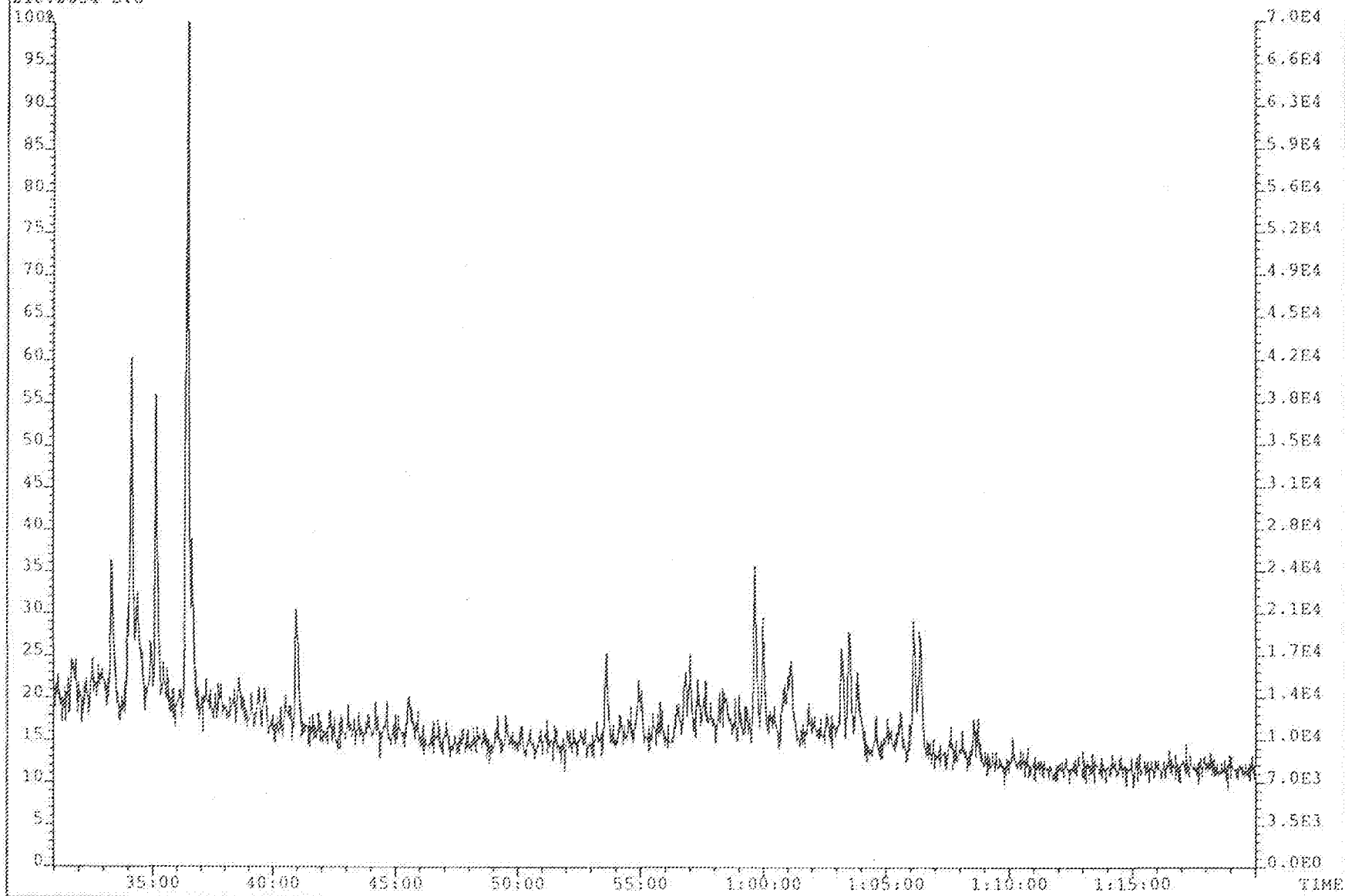


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT3 #1-4740 Acq: 23-SEP-1992 13:30:01 E1+ Magnet SIR
Sample#8 Text: WELL 34/10-35, DST2, 3984-3995M, SATURATED FRACTION FROM OIL Exp: SAT1
218.2034 S:8

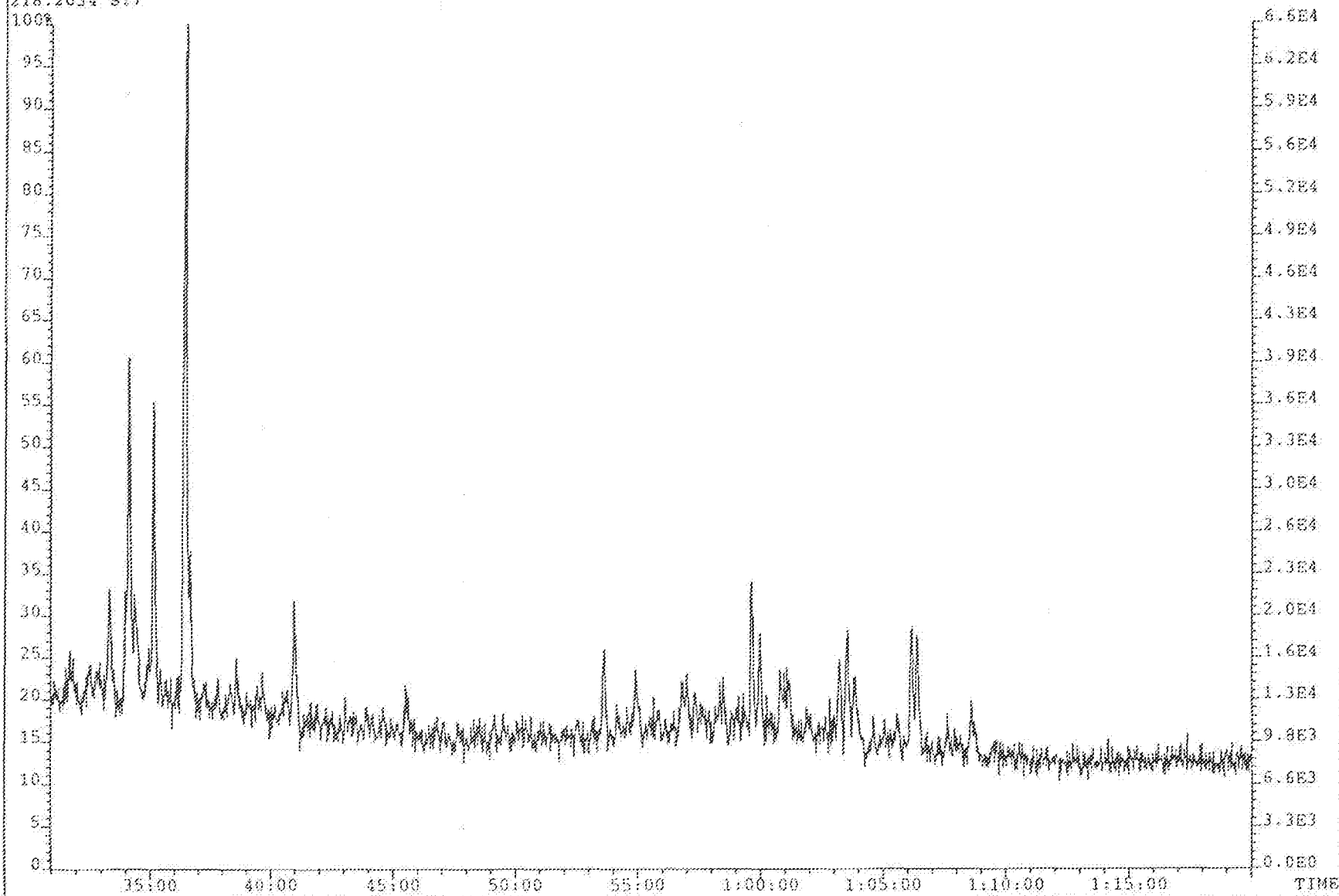


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: SATSAT1 R1-4740 Acq: 23-SEP-1992 11:30:02 EI: Magnet 91H
Sample#7 Text: WELL 34/10-35, DST1, 4015-25M, SATURATED FRACTION FROM OIL Exp: SAT1
218.2034 S:7



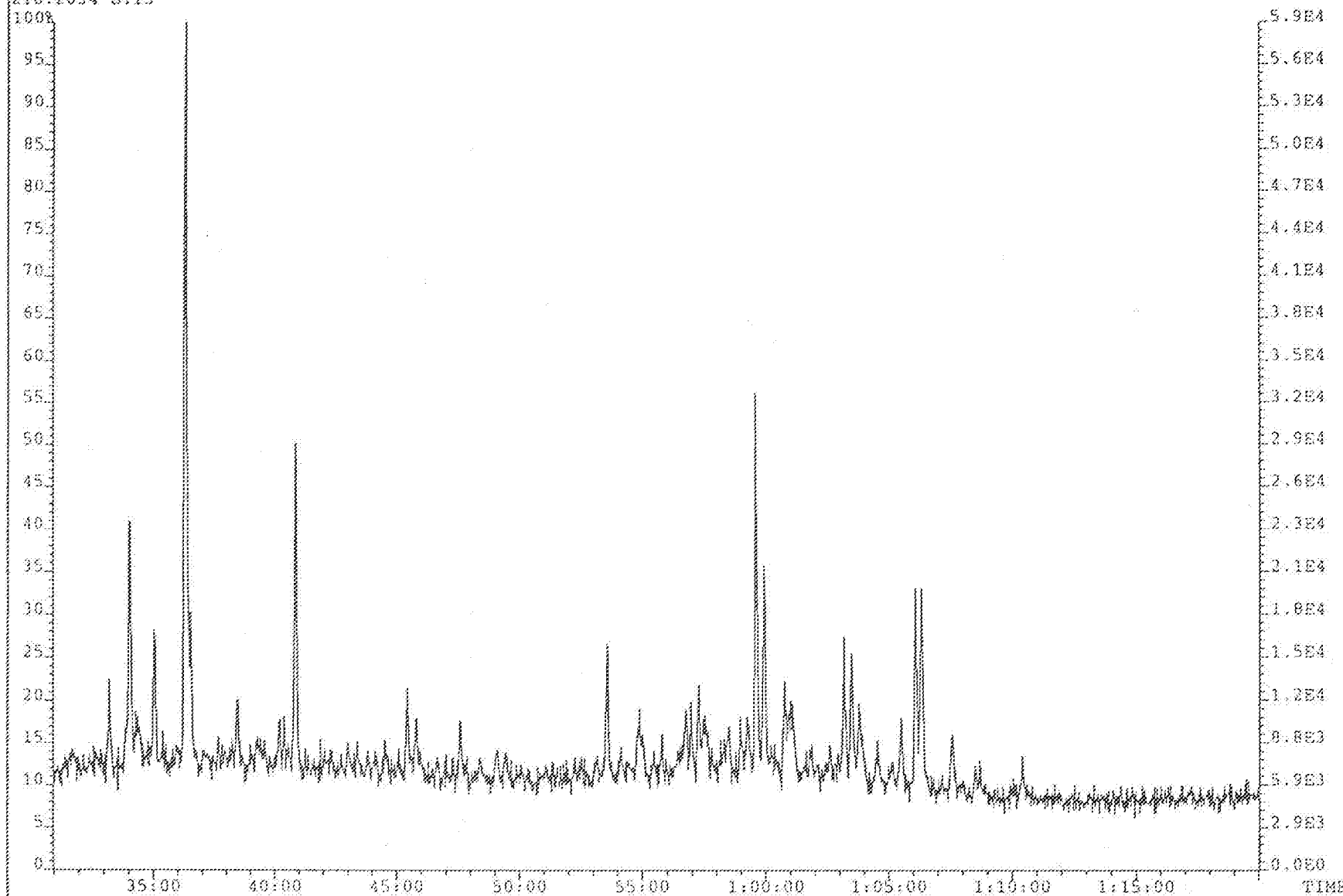
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 14:33:15 EL: Magnet SIR
Sample#13 Text:WELL 34/10-35, 4283.48M, SATURATED FRACTION
218.2034 S:13

Exp:SAT1



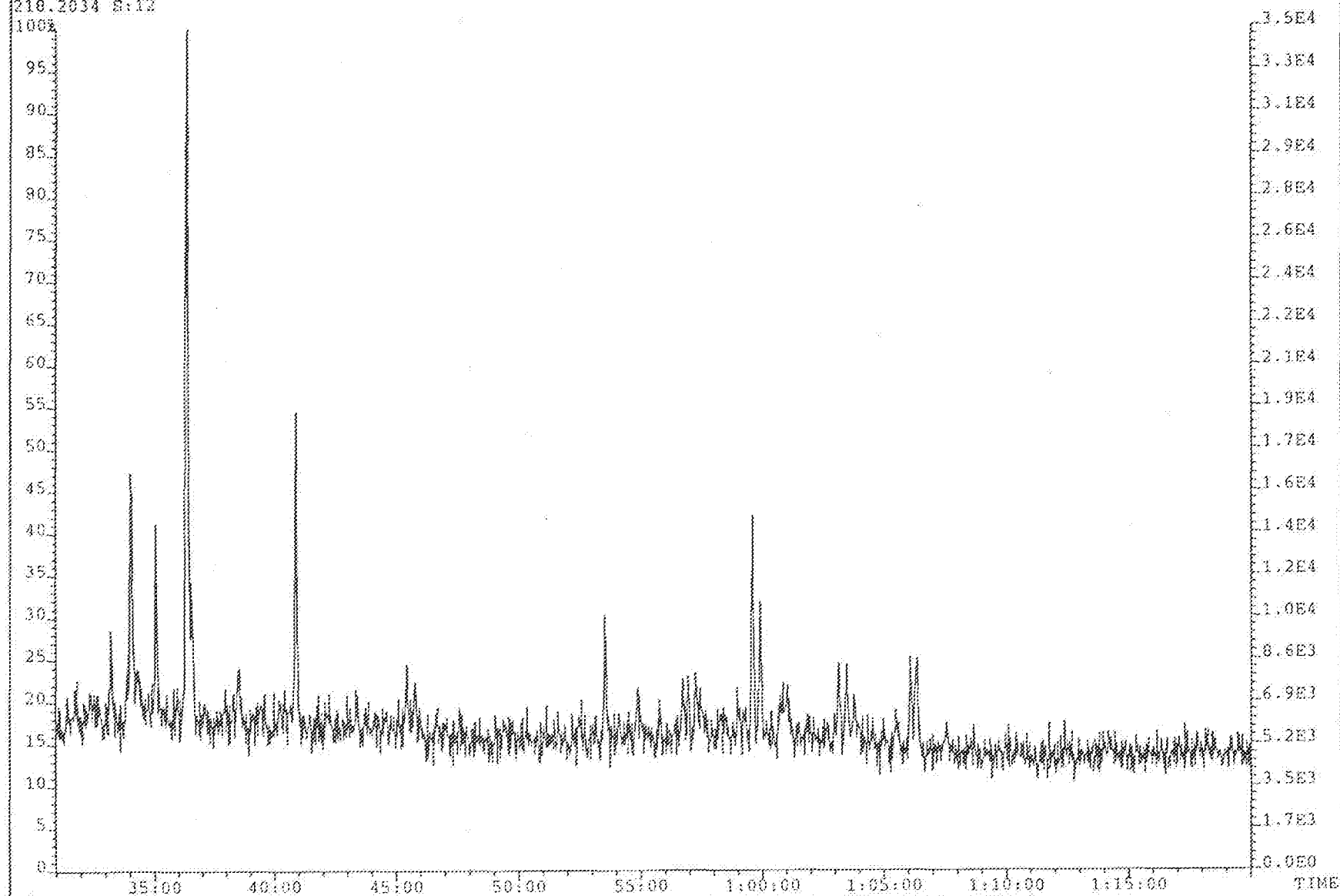
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:22-SEP-1992 14:23:15 E1+ Magnet SIR
Sample#12 Text:WELL 34/10-35, 4270.75M, SATURATED FRACTION
218.2034 S:12

Exp:SAT1



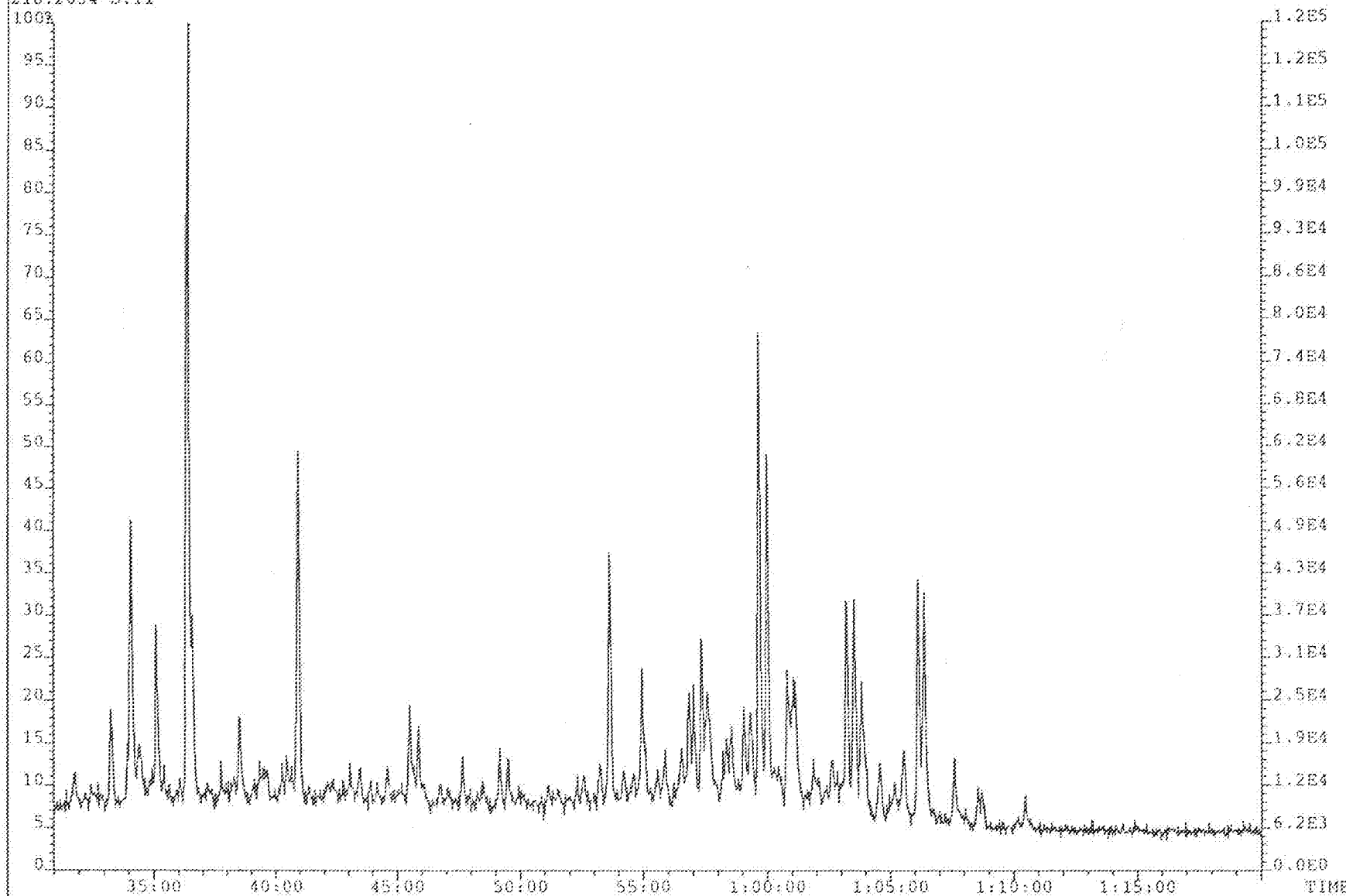
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 01-4741 Acq: 12-SEP-1997 14:23:15 EI+ Magnet SIR
Sample#11 Text: WELL 34/10-35, 4257.47M, SATURATED PRACTION
218.2034 S:11

Exp: SAT1



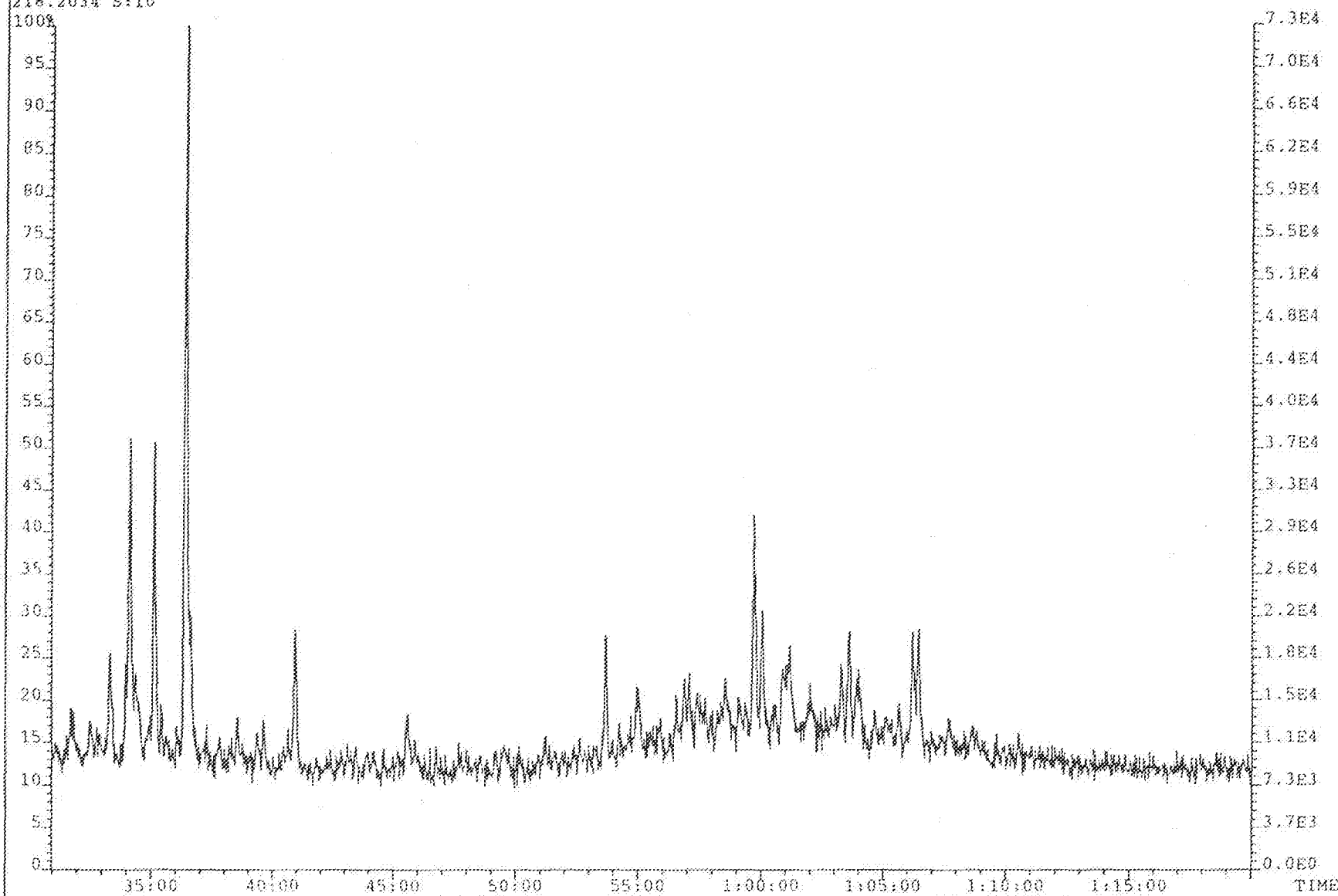
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#10 Text:WELL 34/10-35, 4021.93M, SATURATED FRACTION
218.2034 9:10

Exp:SAT1



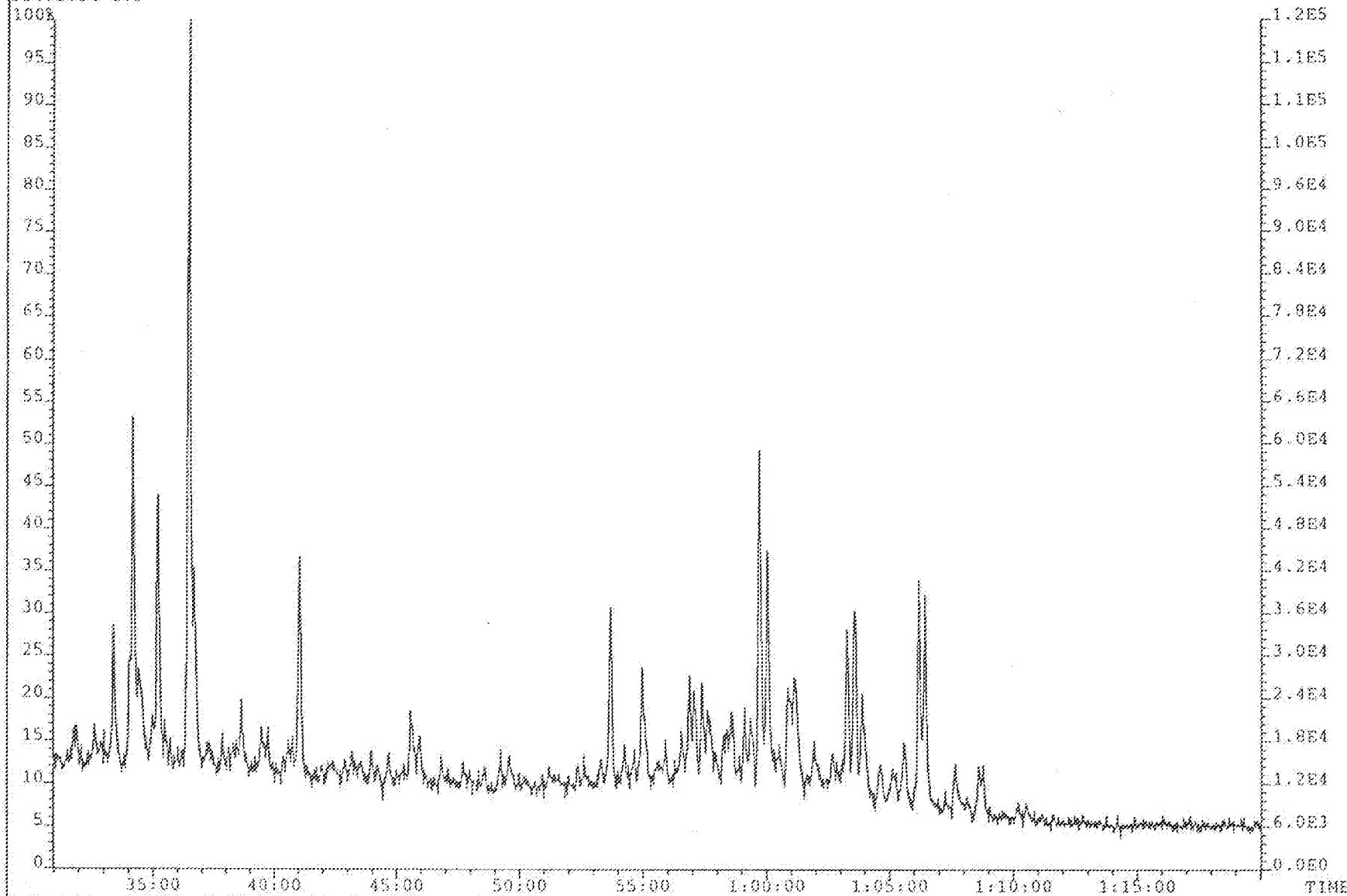
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 04:37:15 EI+ Magnet SIR
Sample#9 Text:WELL 34/10-35, 4006.17M, SATURATED FRACTION
218.2034 S:9

Exp:SAT1



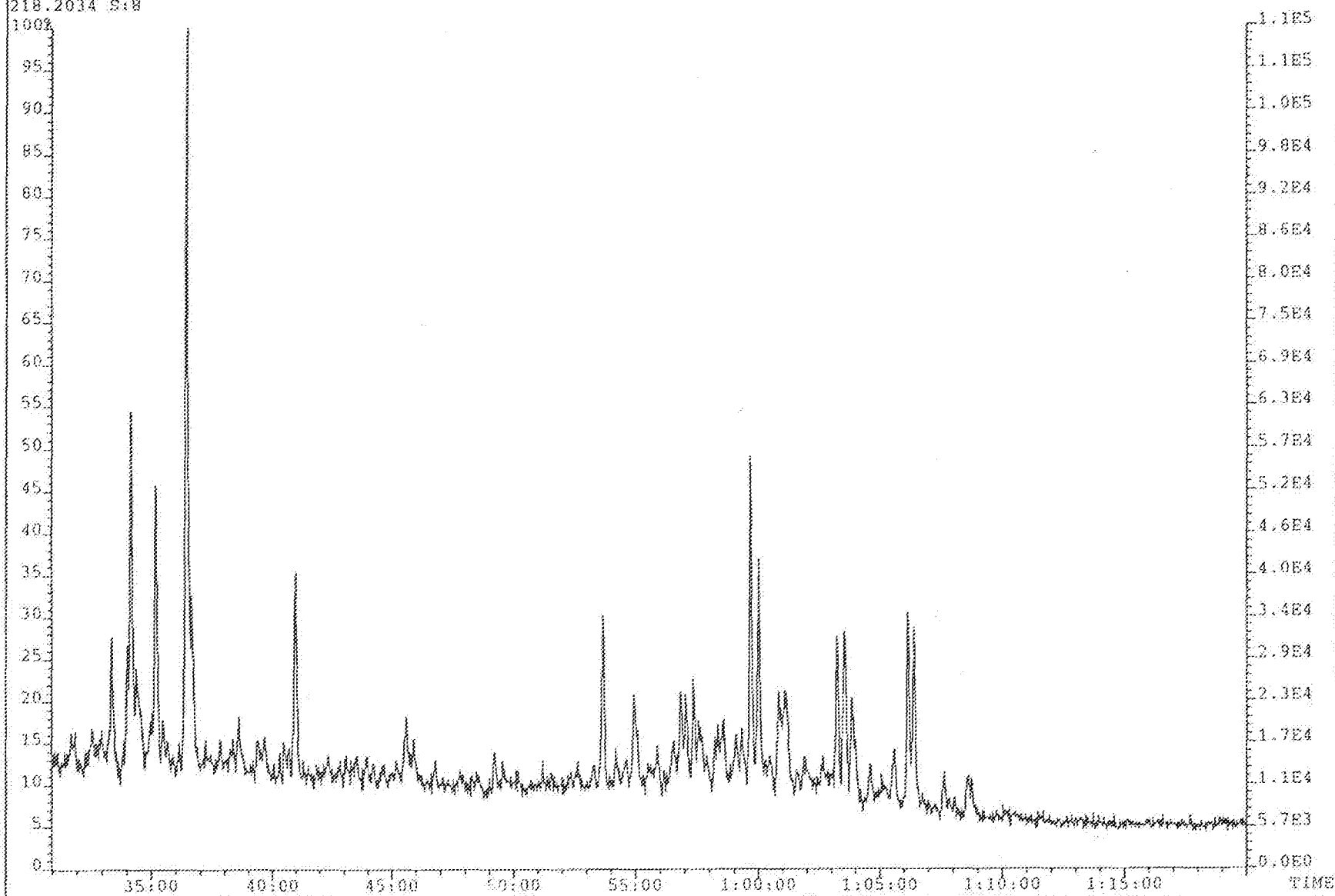
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 41-4739 Acq:22-SEP-1992 14:21:15 EI+ Magnet SLR
Sample#8 Text:WELL 34/10-35, 3994.05M, SATURATED FRACTION
218.2034 S:8

Exp:SAT1



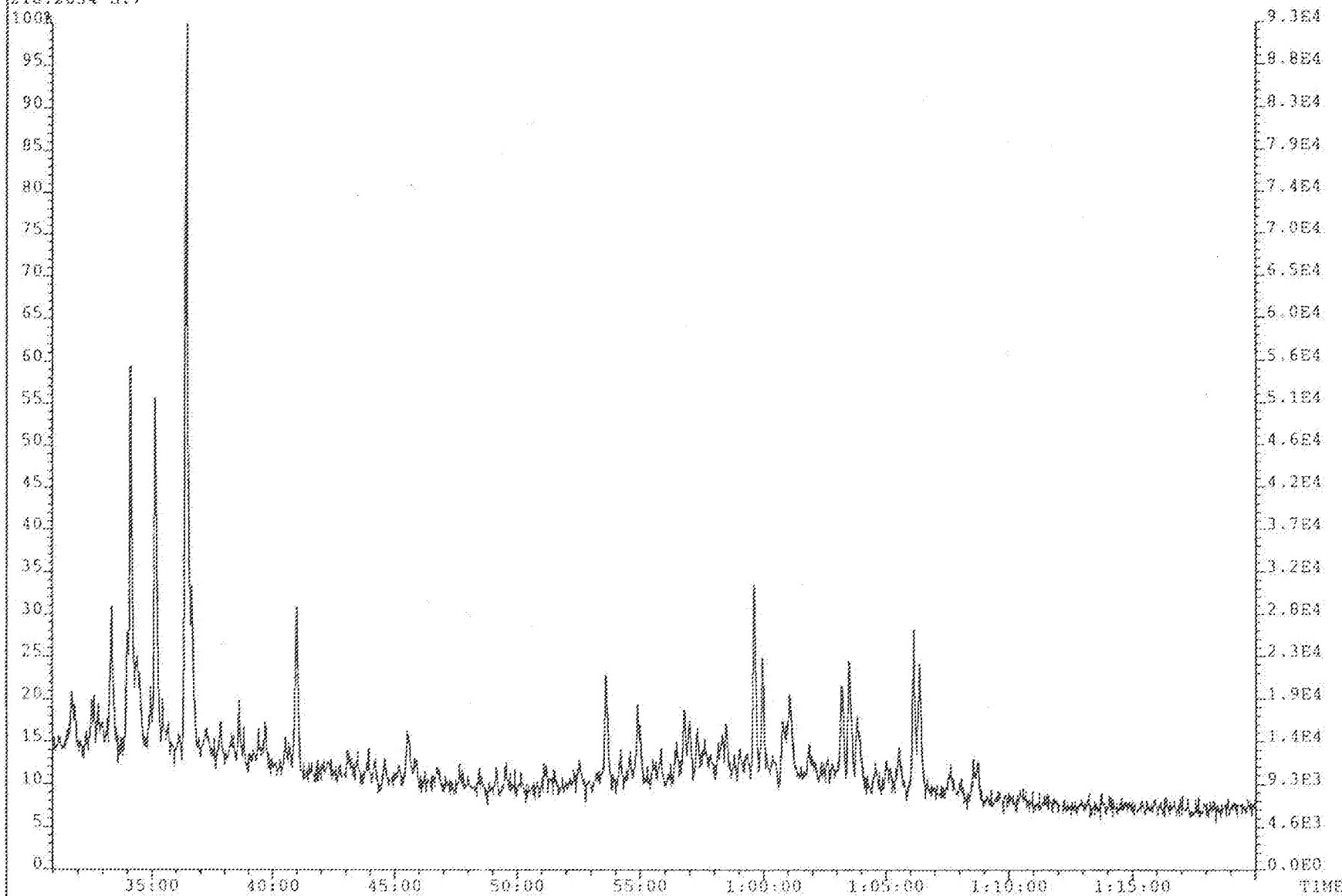
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EIP Magnet SIR
Sample#7 Text:WELL 34/10-35, 3933.16N, SATURATED FRACTION
218.2034 S:7

Exp:SAT1



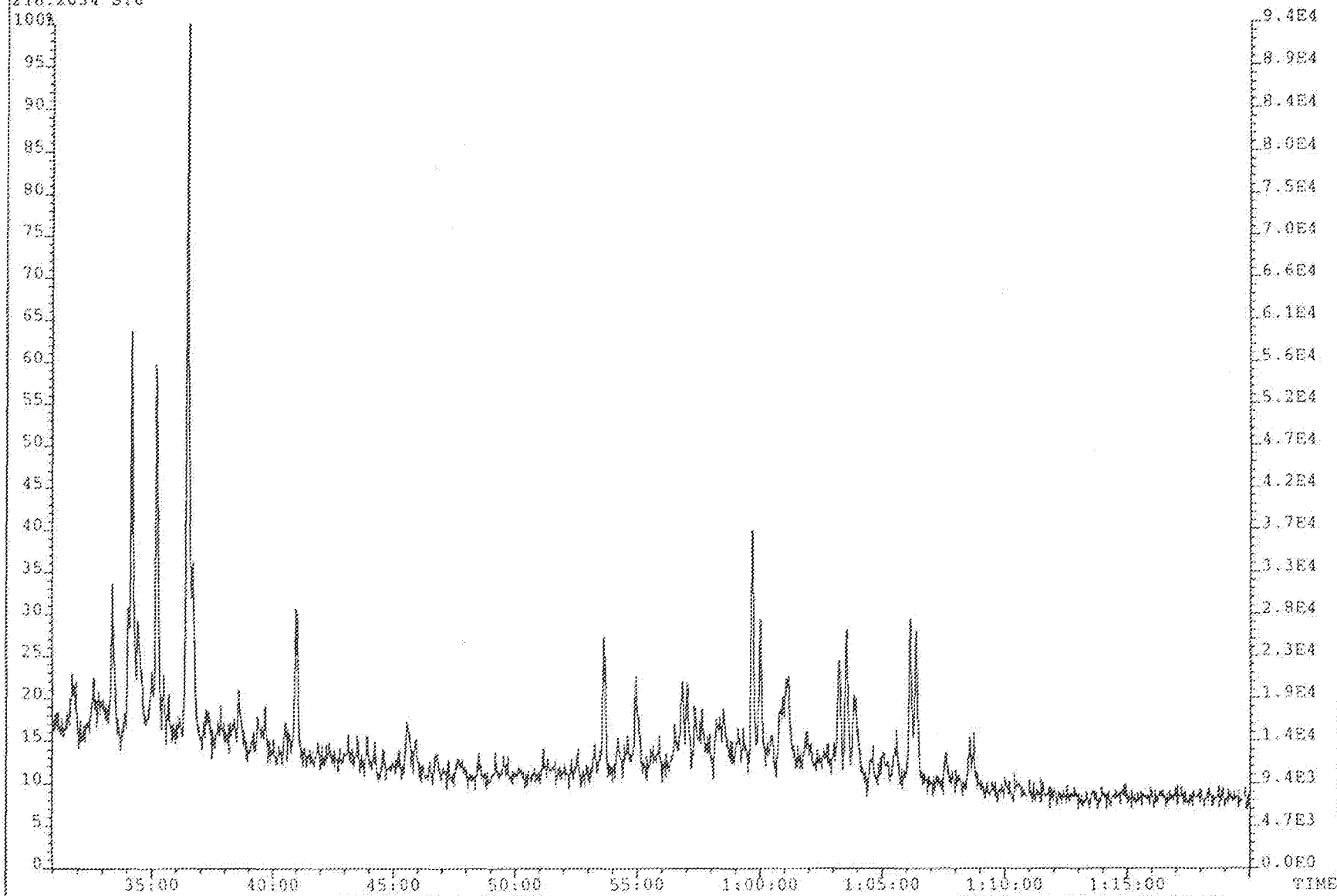
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 El+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3931.71M, SATURATED FRACTION
218.2034 S:6

Exp:SAT1



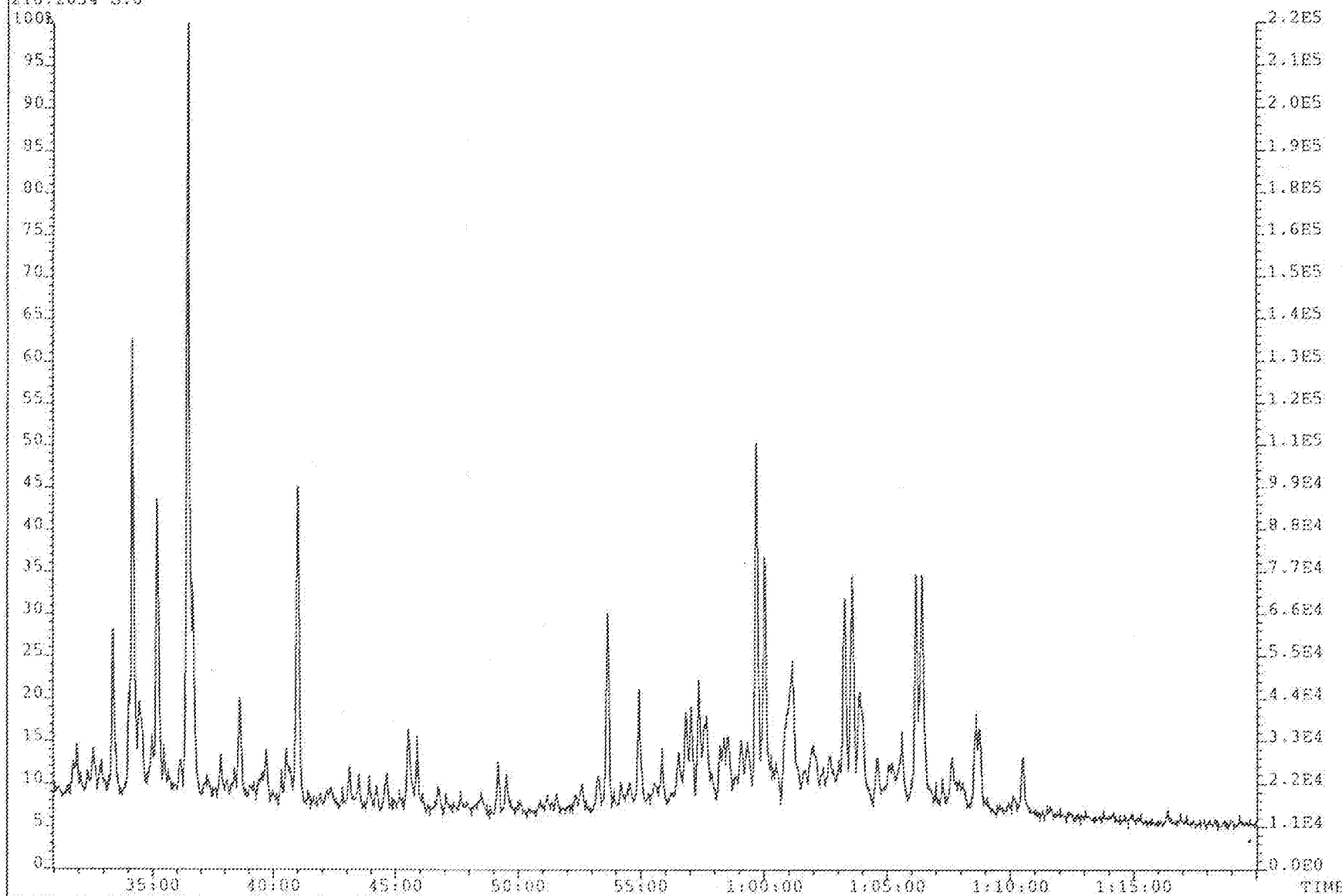
Schlumberger

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GEOLAB NOR

File:STATSAT1 #1-4740 Acq:23-SEP-1992,13:30:02 EI+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3894M, SATURATED FRACTION
218.2034 S:6

Exp: SAT1



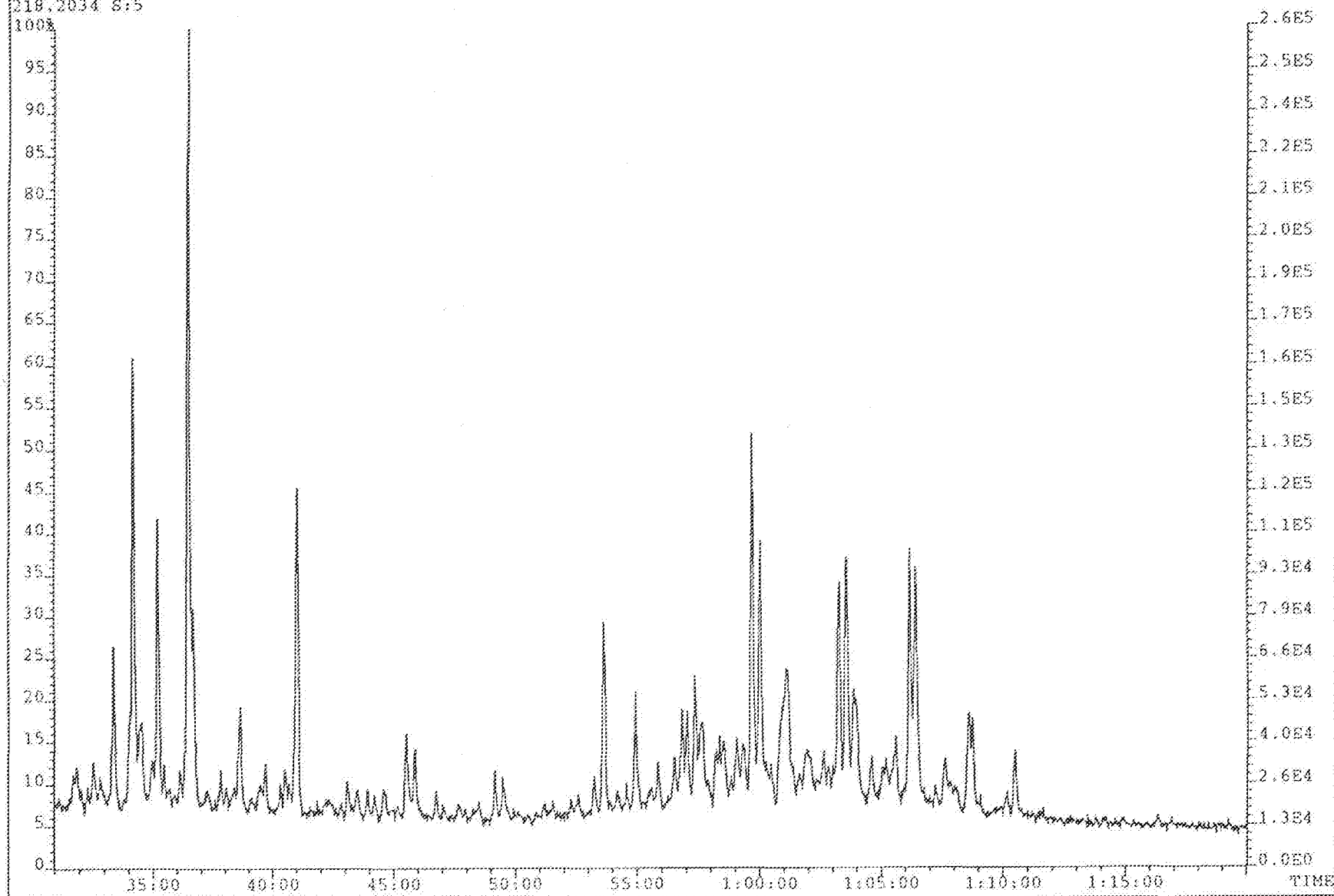
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 W1-4739 Acq:23-SEP-1992,13:10:02 B1: Magnet SIR
Sample#5 Text:WELL 34/10-35, 3885M, SATURATED FRACTION
218,2034 8:5

Exp:SAT1



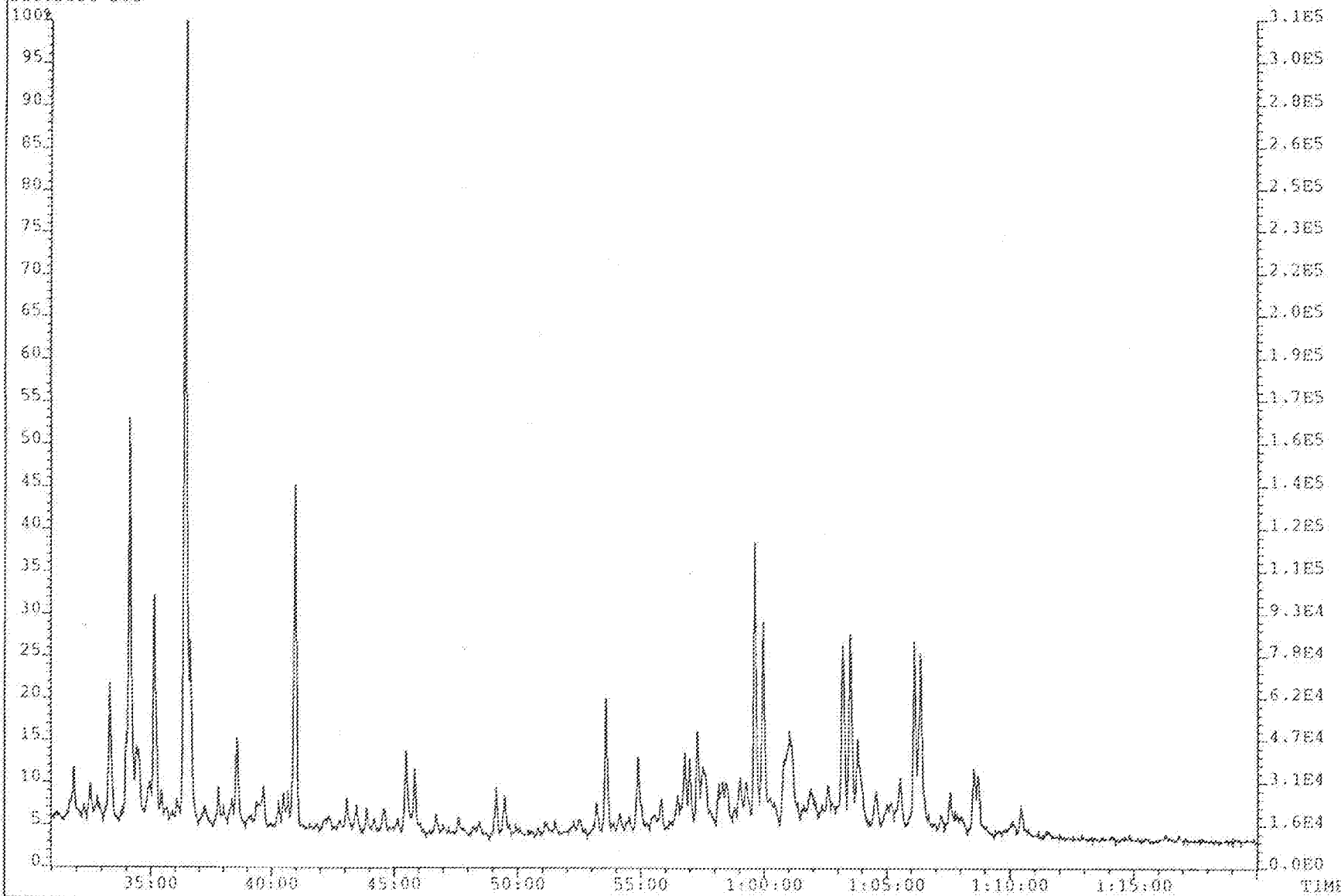
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT2 81-4740 Acq: 23-SEP-1992 14:23:15 EI+ Magnet. SIR
Sample#5 Text: WELL 34/16-35, 1852M, SATURATED FRACTION
219.2014 S:5

Exp: SAT1



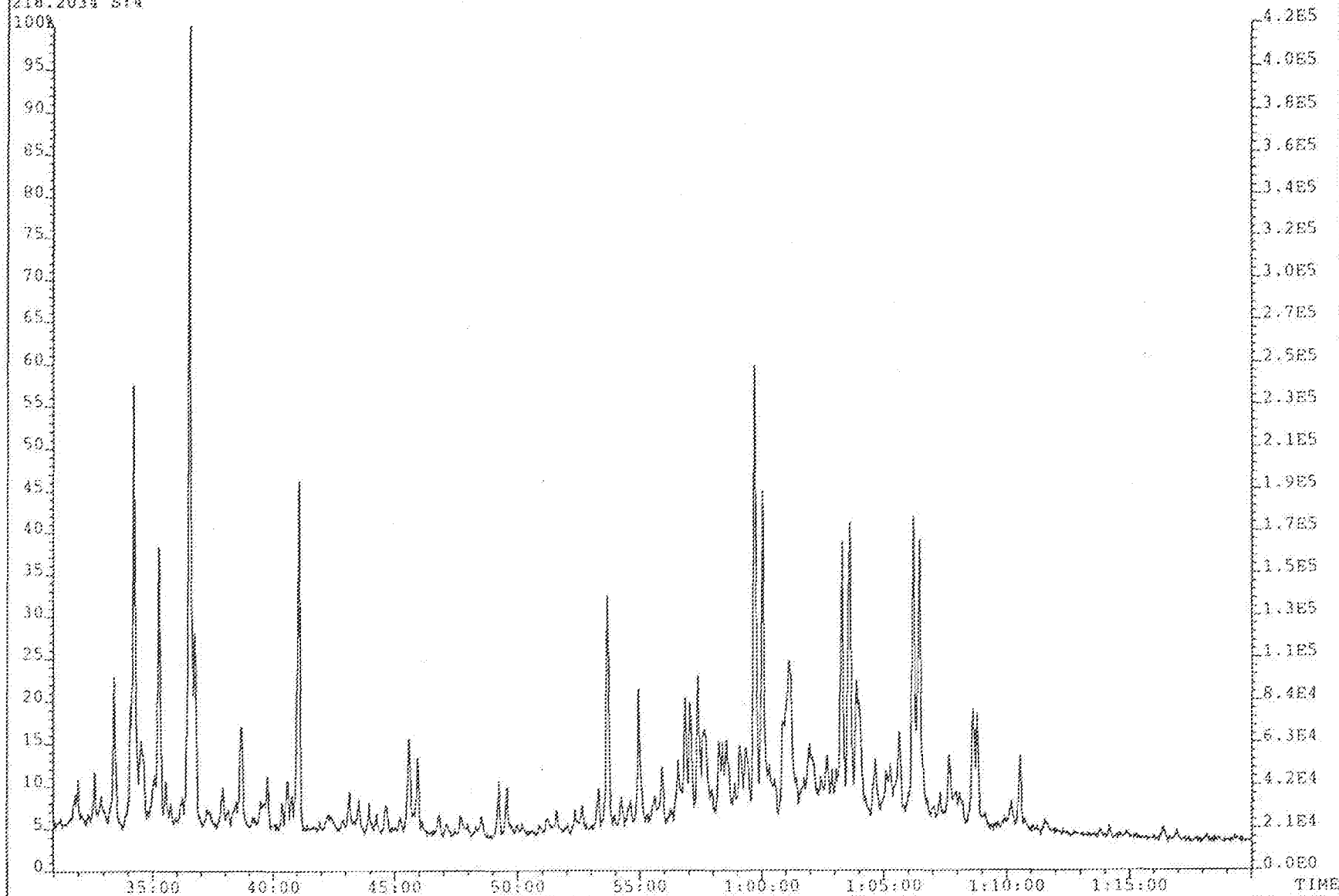
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT1 FI-4740 Acq: 12-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#4 Text: WELL 34/10-35, 3831M, SATURATED FRACTION
218.2034 S:4

Exp: SAT1



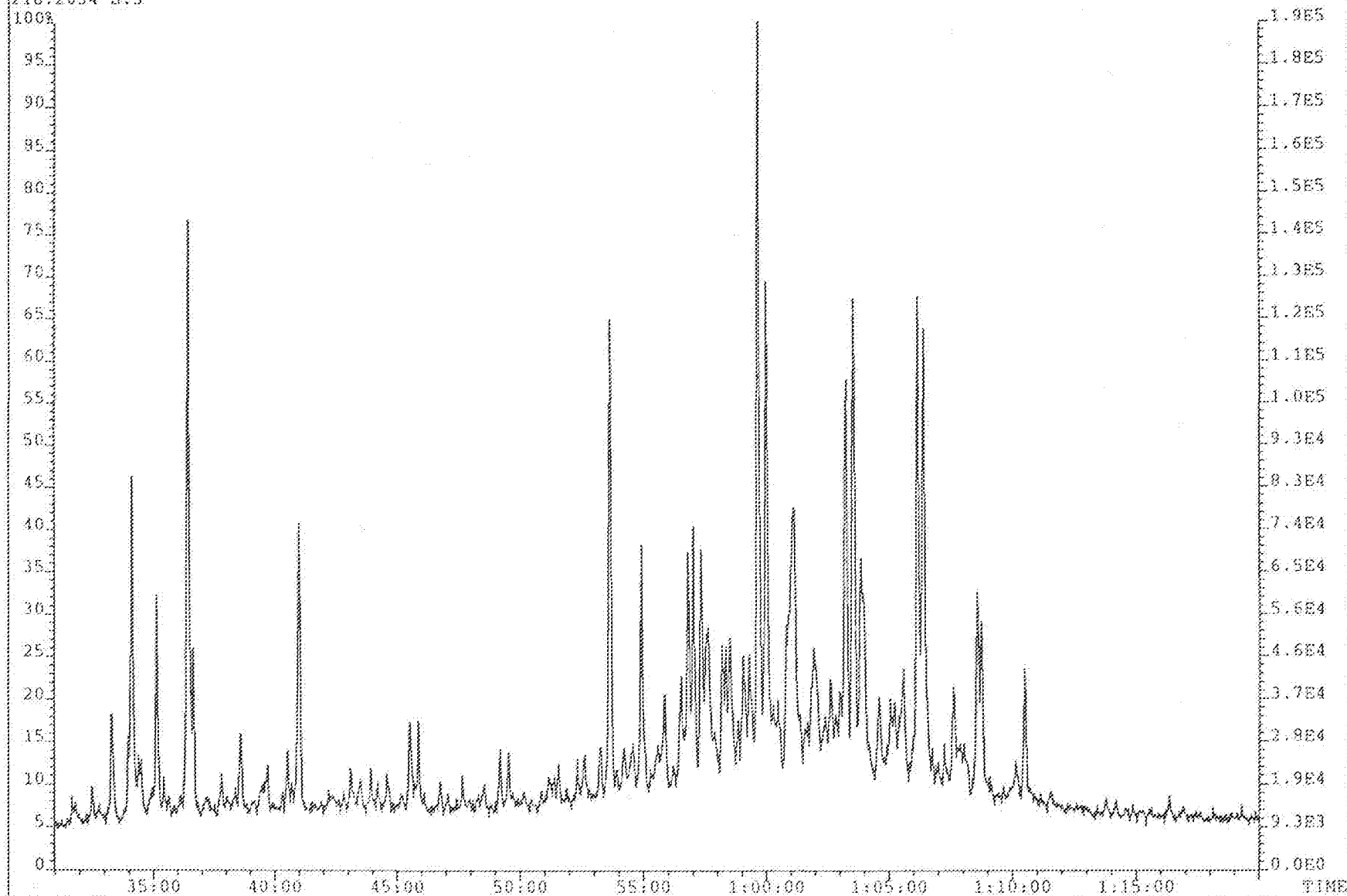
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#3 Text:WELL 14/10-15, 1530M, SATURATED FRACTION
218.2034 S:3

Exp:9AT1

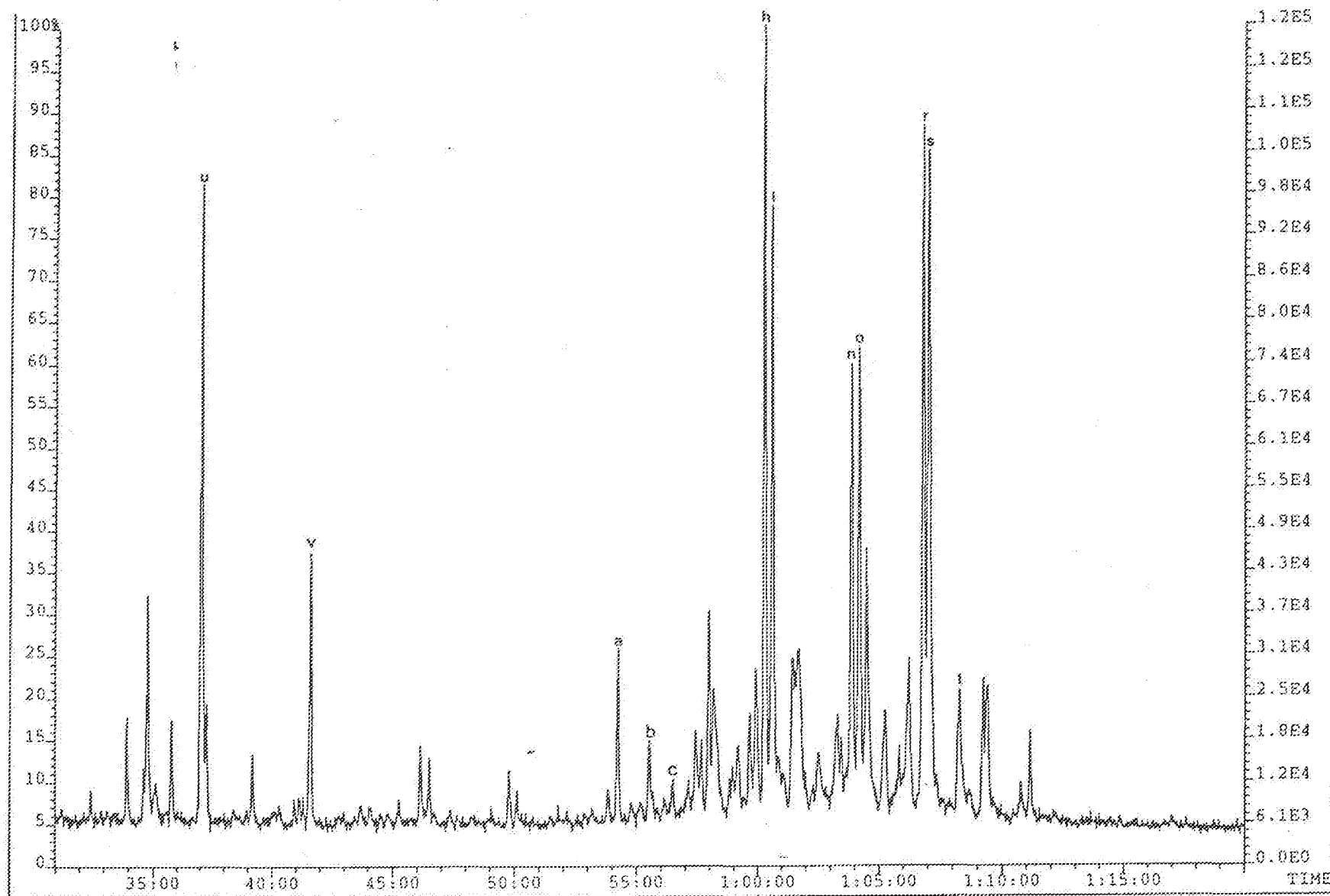


Schlumberger

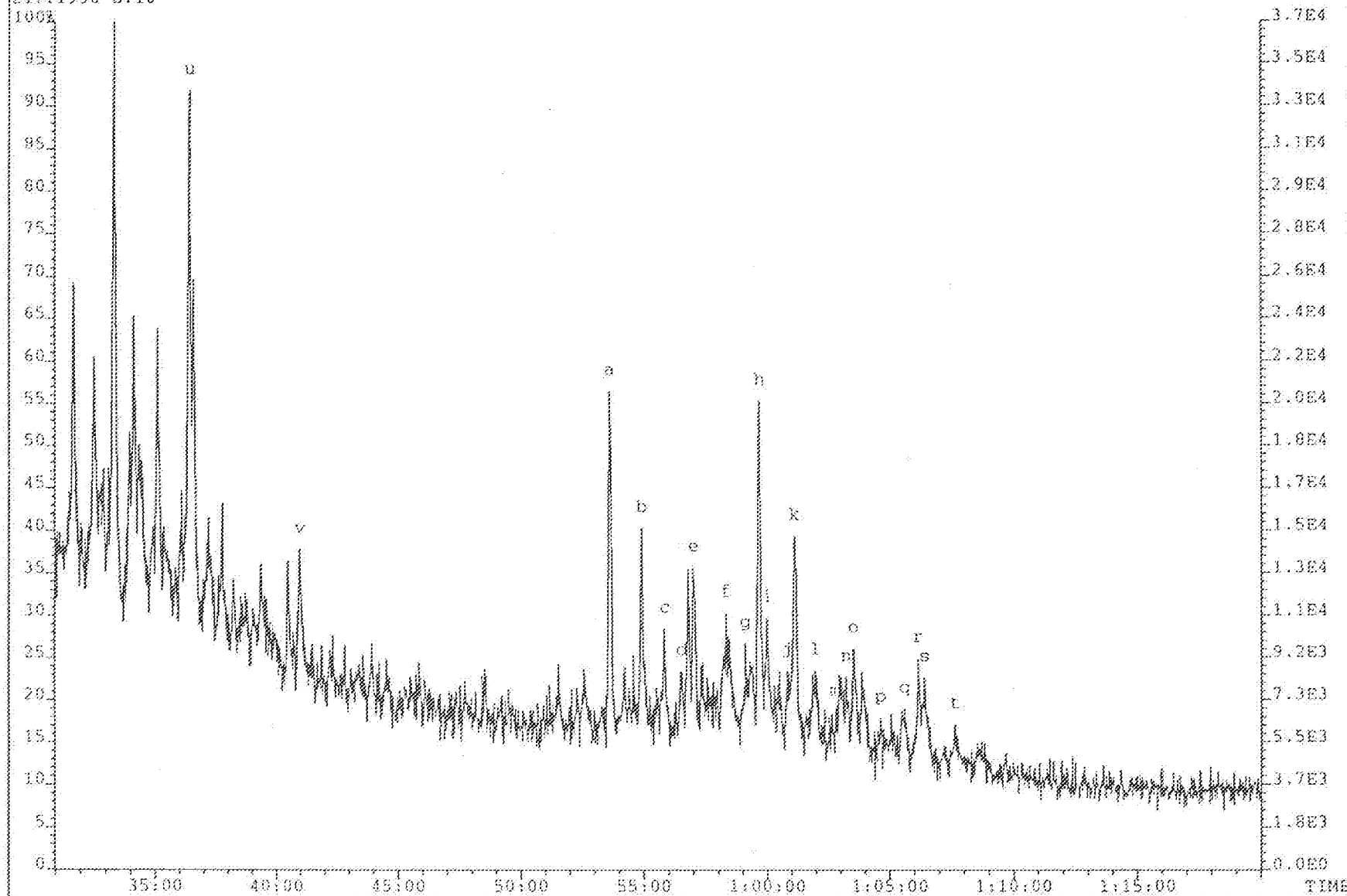
GECO-PRAKLA

GEOLAB NOR

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



File:STATSAT3 W1-4719 Acq:23-SEP-1992 11:00:02 E1: MAGNET SIR
 Sample#10 Text:WELL 34/10-35, OLJE OVER MUD, 3496-3504M, SAT. FRAC. FROM OIL Exp:SAT1
 217.1956 S:10

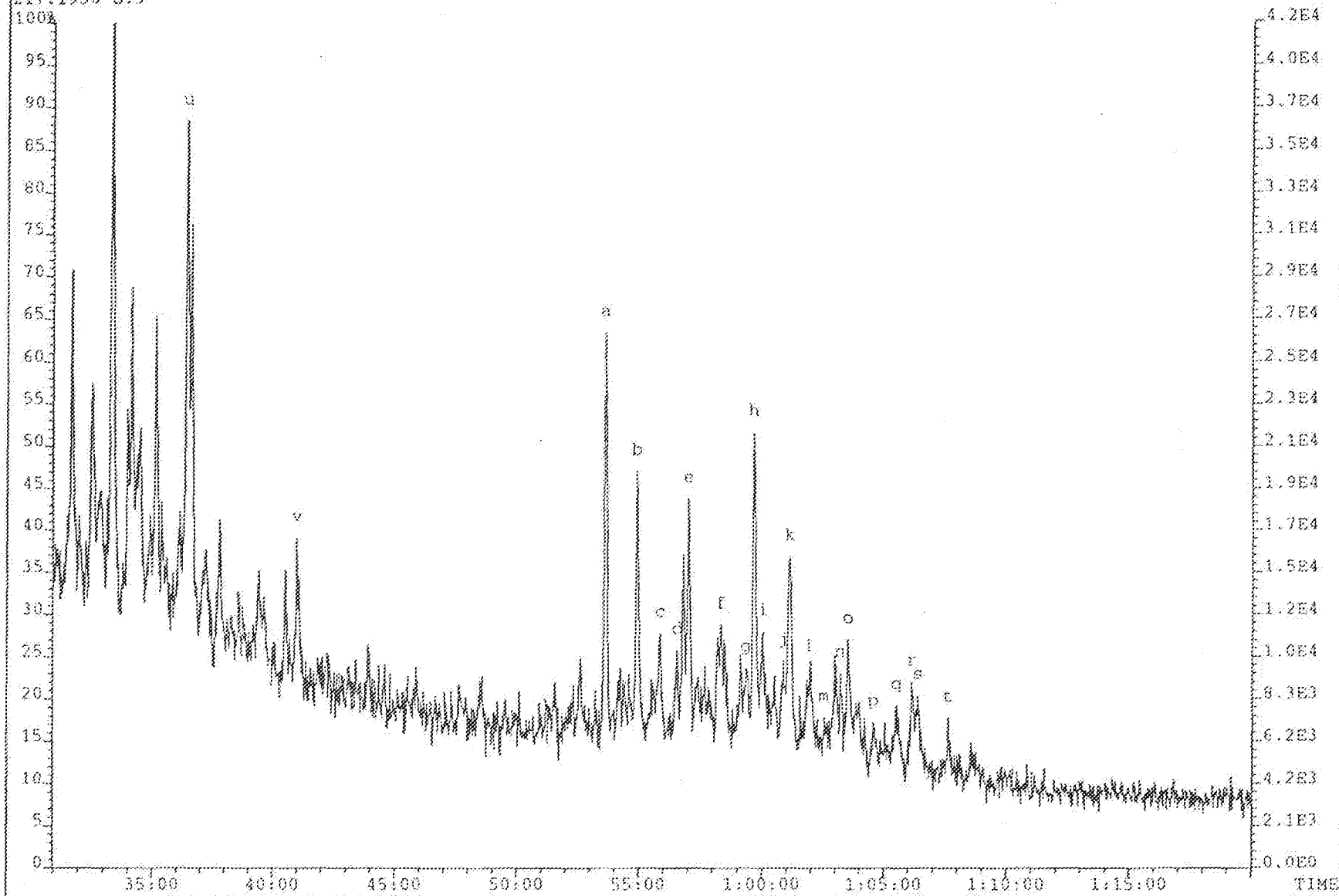


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT1 #1-4740 Acq: 21-SEP-1992 11:10:02 EI+ Magnet SIR
 Sample#9 Text: WELL 34/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL Exp: SAT1
 217.1956 S:9

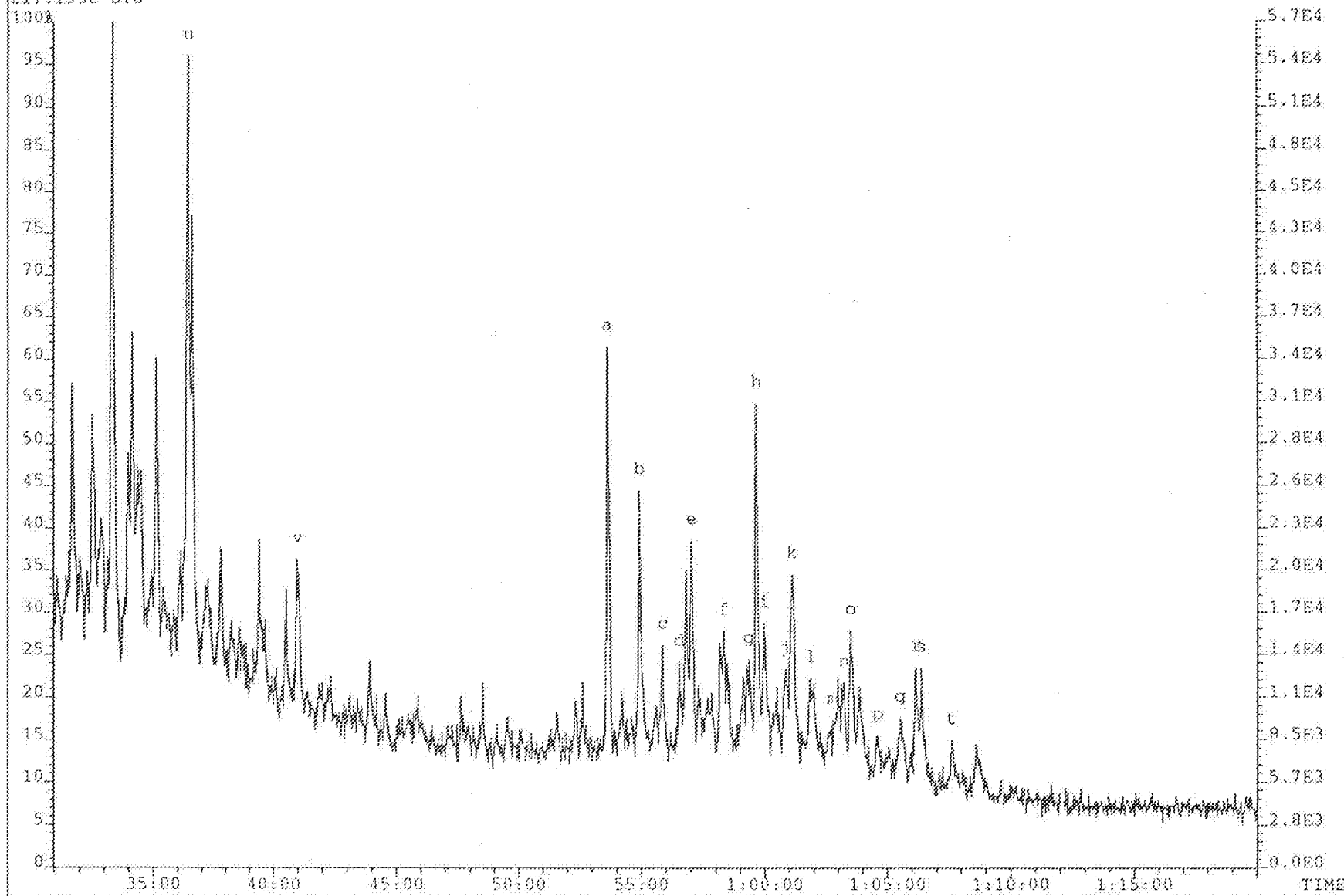


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:23-SEP-1992 13:30:02 EI+ Magnet SIR
 Sample#8 Text:WELL 34/10-35, DST2, 3984-3995M, SATURATED FRACTION FROM OIL Exp:SAT1
 217.1956 S:8



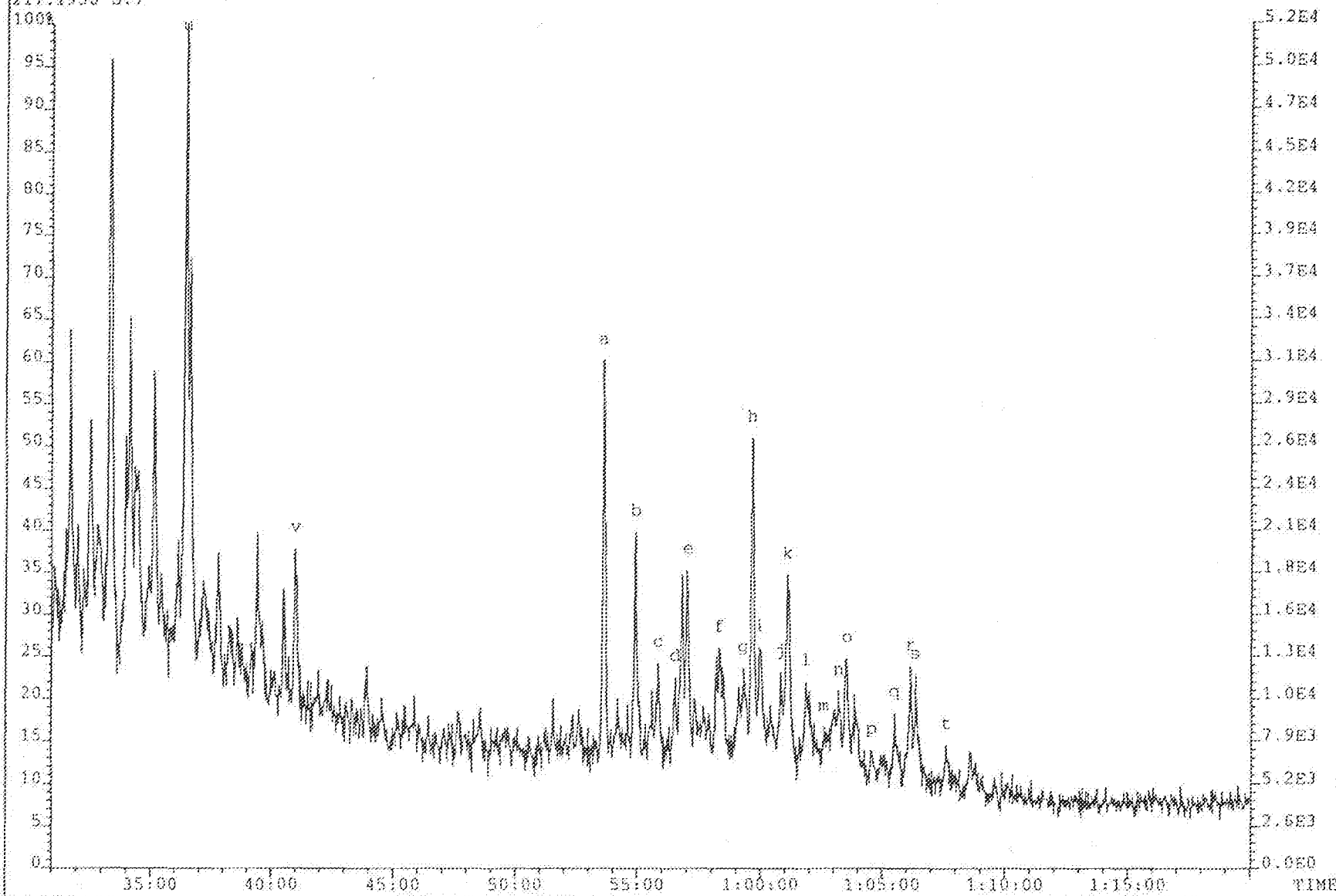
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSATJ #1-4740 Acq:23-SEP-1992 13:30:02 EI+ Magnet SIR
 Sample#7 Text:WELL 34/10-35, DST1, 4015-25M, SATURATED FRACTION FROM OIL
 217.1956 S:7

Exp:SAT1



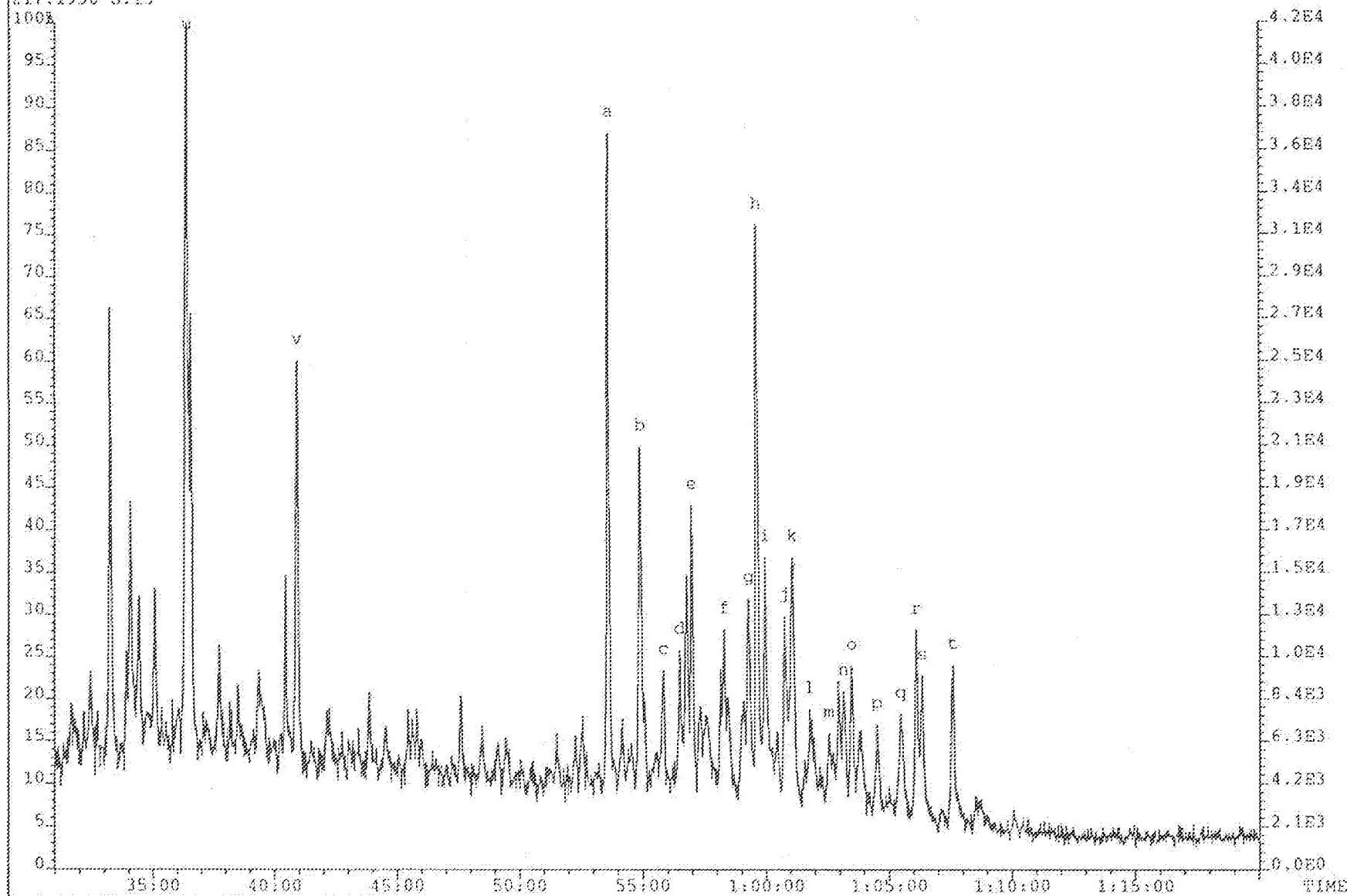
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992,14:23:15 EI+ Magnet SIR
Sample#13 Text:WELL 34/10-35, 4283.48M, SATURATED FRACTION
217.1956 S:13

Exp:SAT1



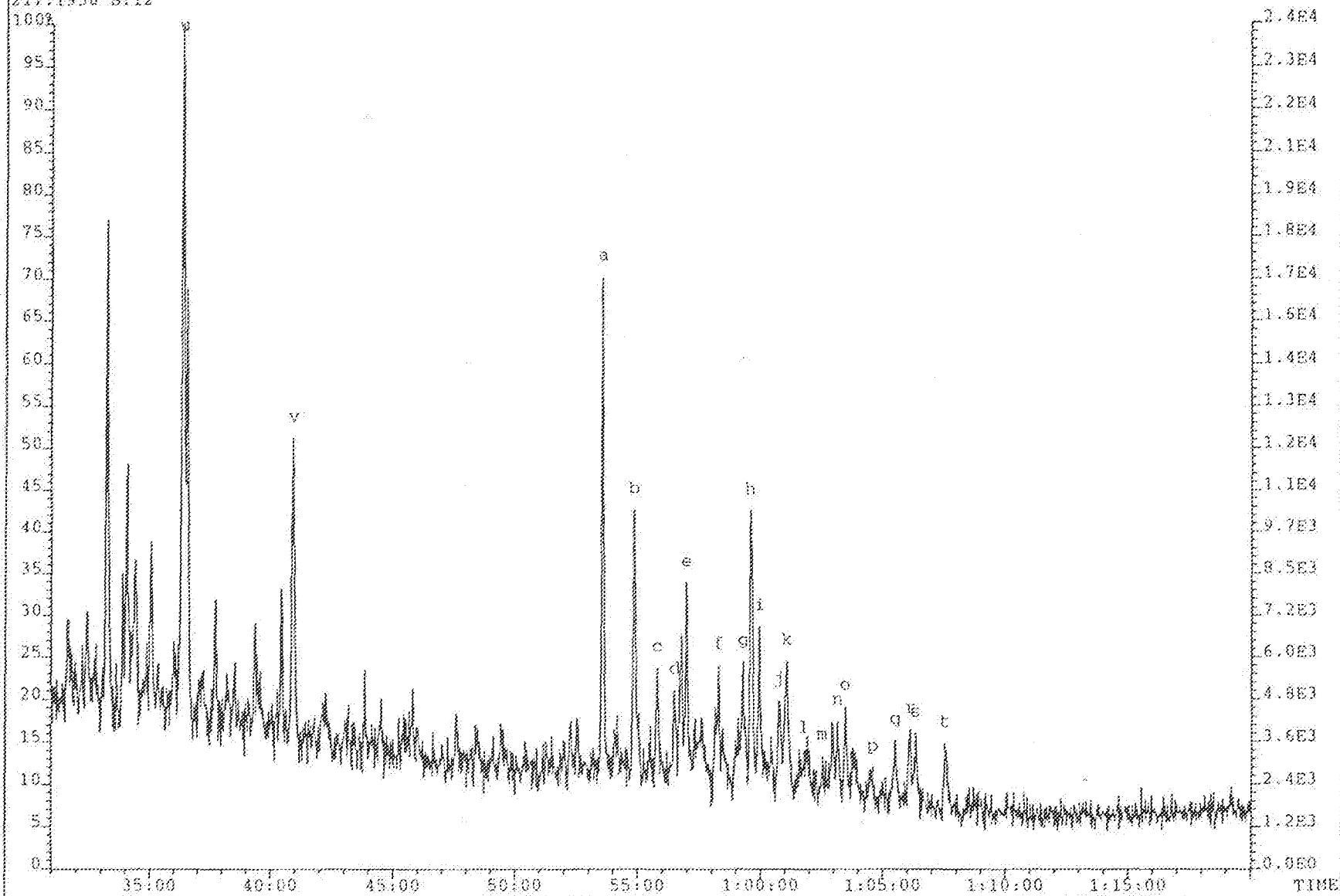
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4741 Acq: 22-SEP-1992 14:33:15 EI+ Magnet SIR
 Sample#12 Text: WELL 34/10-35, 4270.75M, SATURATED FRACTION
 217.1956 S:12

Exp: SAT1



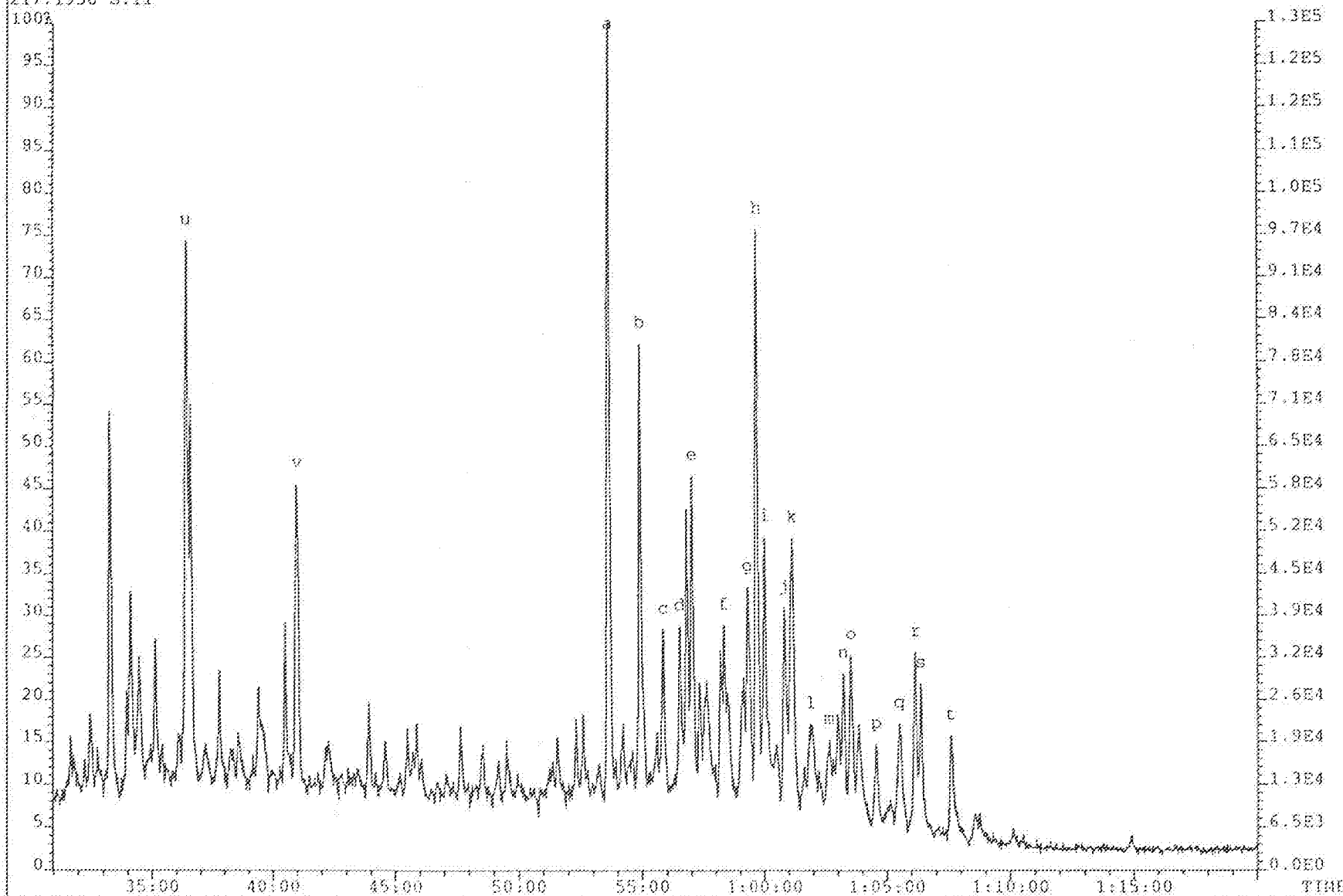
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4741 Acq: 22-SEP-1992, 14:23:15 ET: Magnet SIR
 Sample#11 Text: WELL 34/10-35, 4257.47M, SATURATED FRACTION
 217.1956 S:11

Exp: SAT1



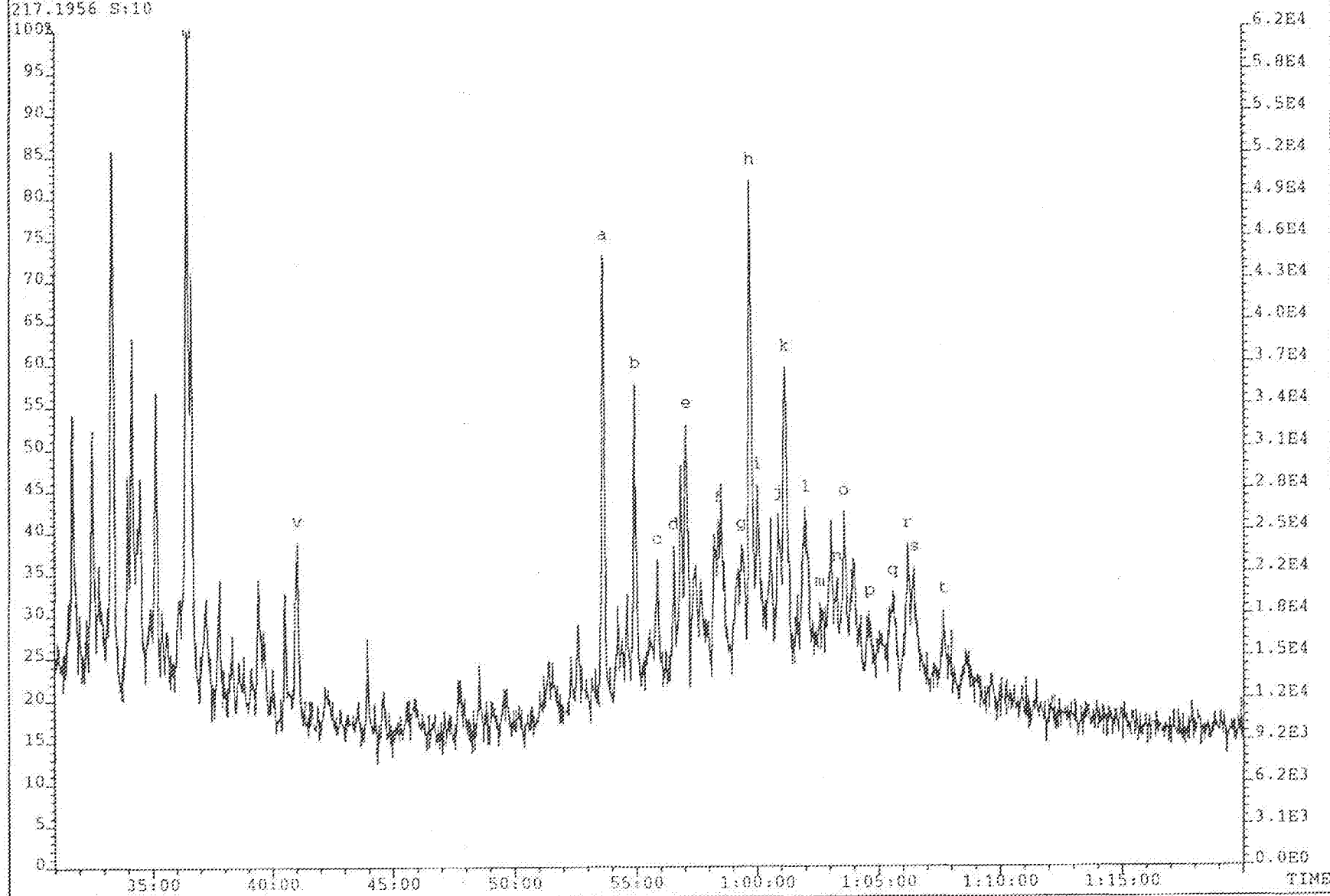
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT2 #1-4719 Acq: 21-SEP-1992 14:23:15 E1+ Magnet SIR
 Sample#10 Text: WELL 34/10-35, 4021.93M, SATURATED FRACTION
 217.1956 S:10

Exp: SAT1



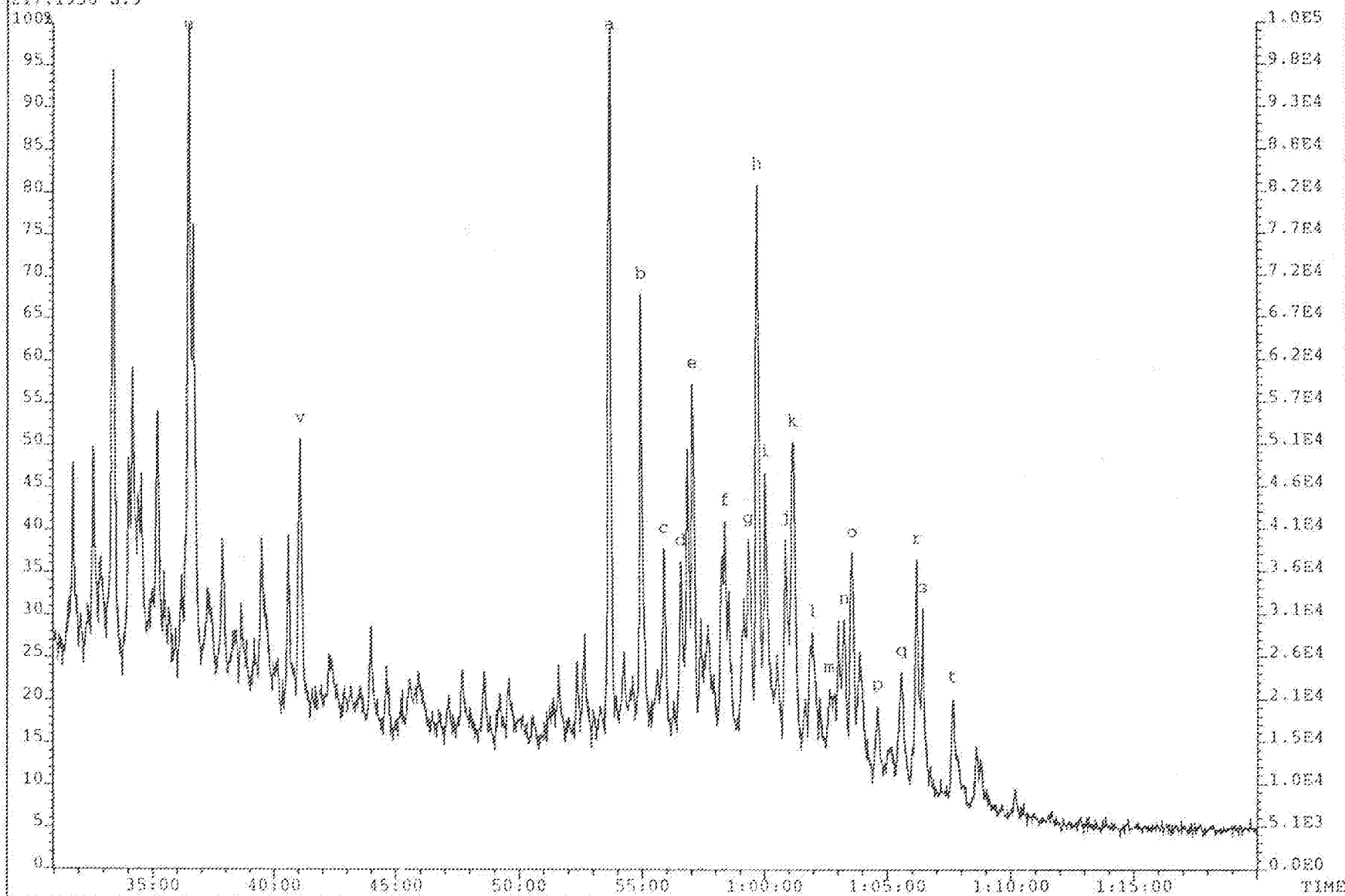
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4739 Acq: 22-SEP-1992, 14:23:15 EI+ Magnet SIR
 Sample#9 Text: WELL 34/10-35, 4006.17M, SATURATED FRACTION
 217.1956 S:9

Exp: SAT1



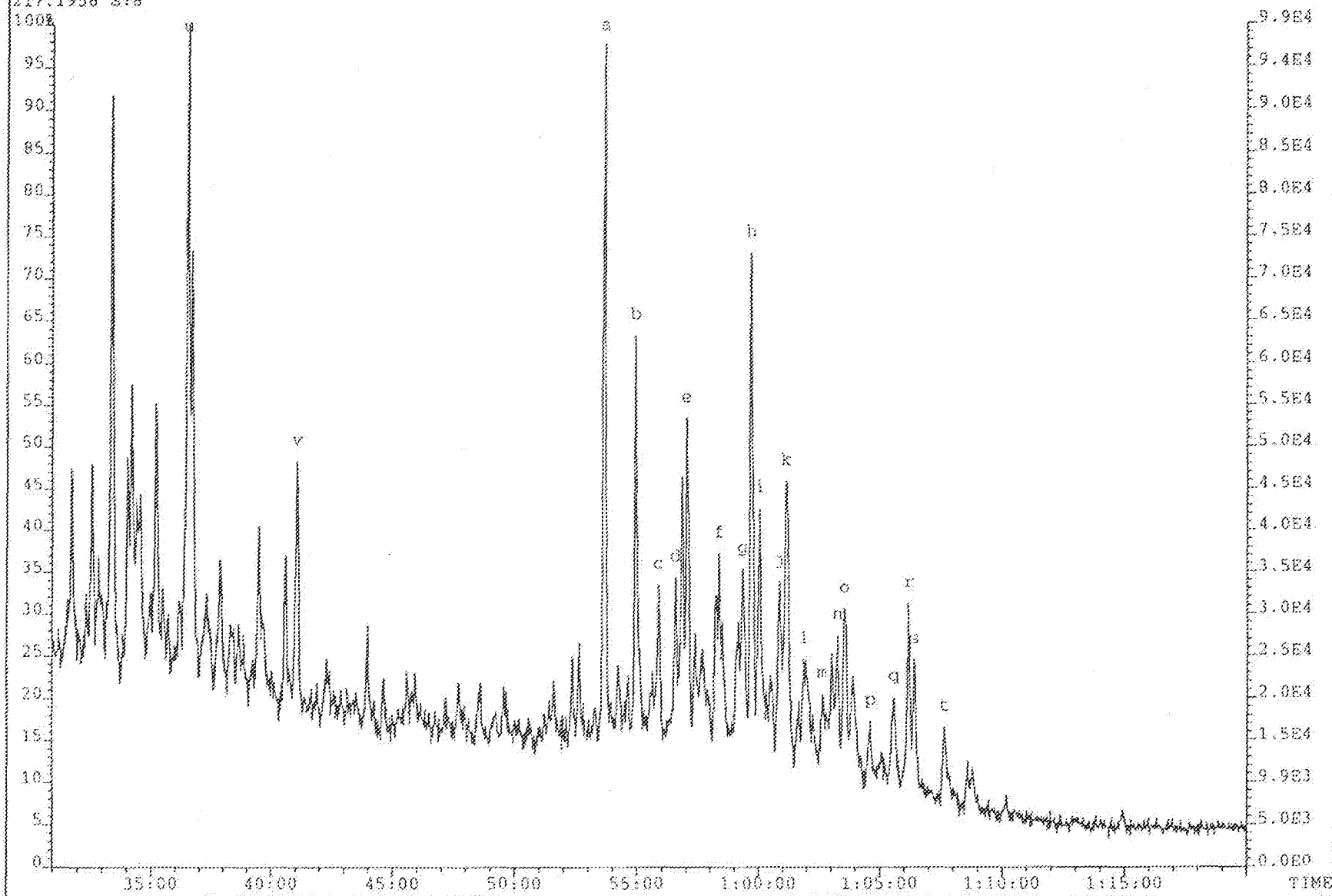
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 01-4739 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
 Sample#9 Text:WELL 34/10-35, 3994.05M, SATURATED FRACTION
 217.1956 S:8

Exp:SAT1



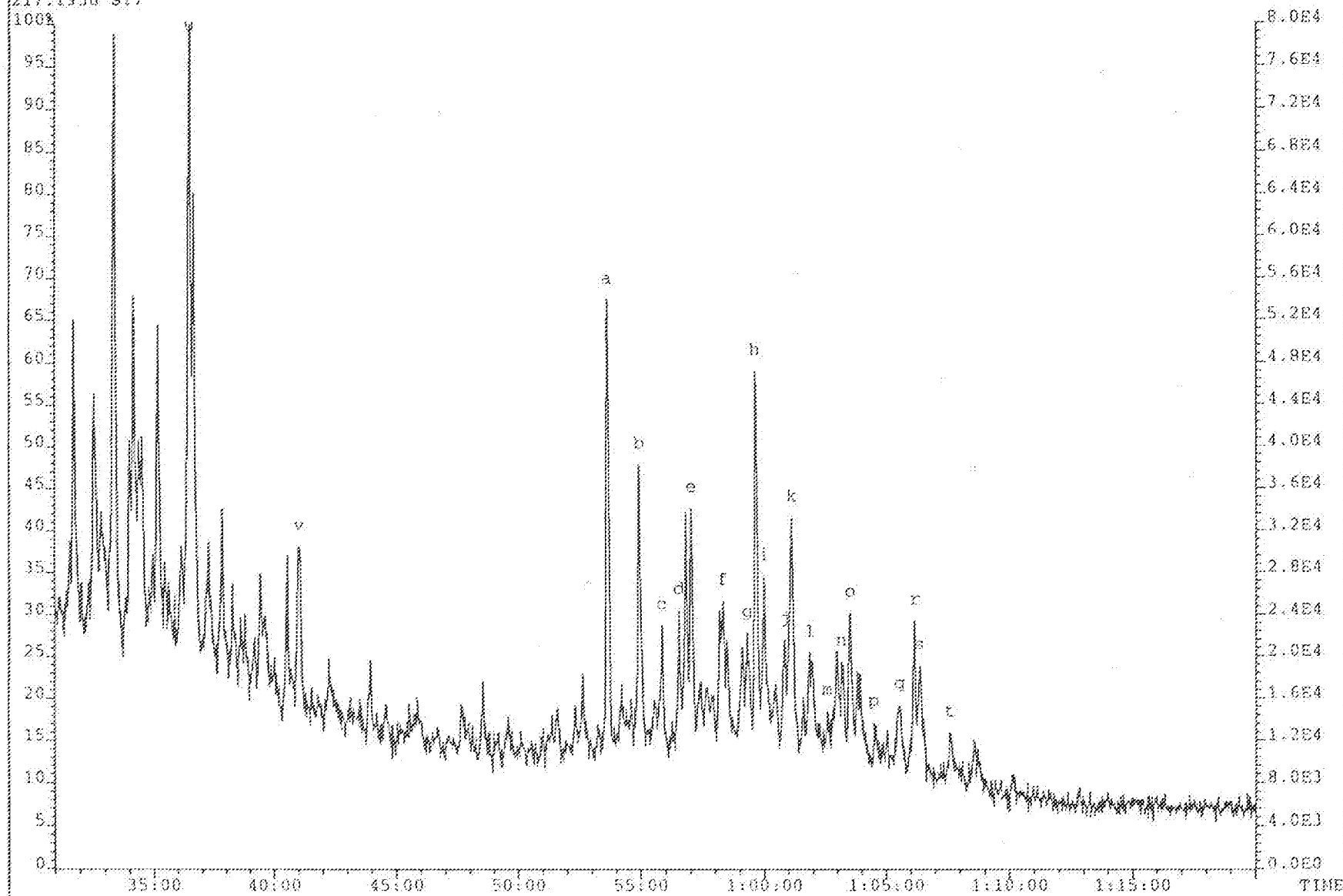
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 FI-4739 Acq:22-SEP-1992 14:23:15 FI: Magnet SIR
 Sample#7 Text:WELL 34/10-35, 3933.16M, SATURATED FRACTION
 217.1956 S:7

Exp:SAT1



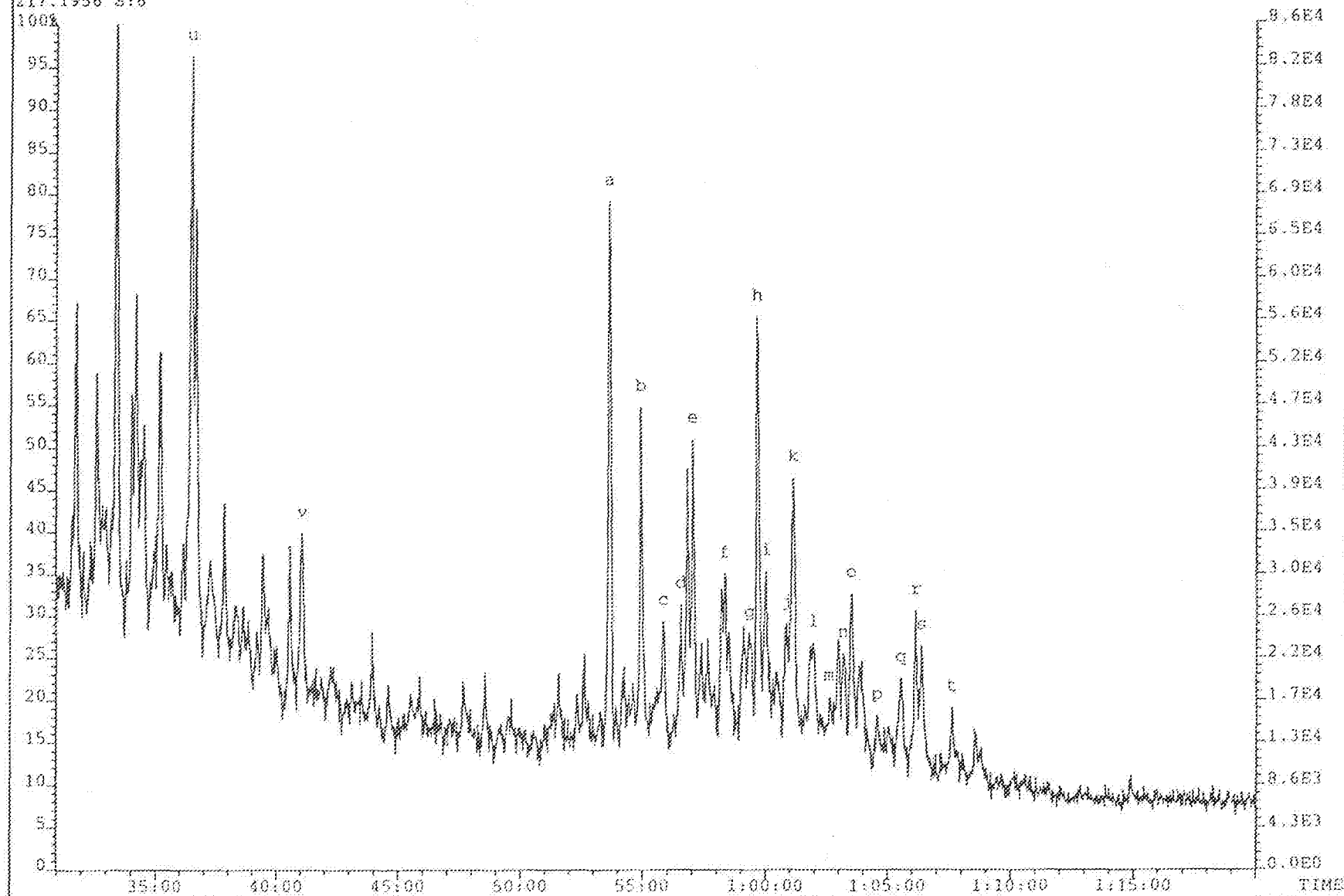
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT2 #1-4739 Acq: 22-SEP-1992 14:23:15 EI+ Magnet SIR
 Sample#6 Text: WELL 34/10-35, 3931.71M, SATURATED FRACTION
 217.1956 S:6

Exp: SAT1



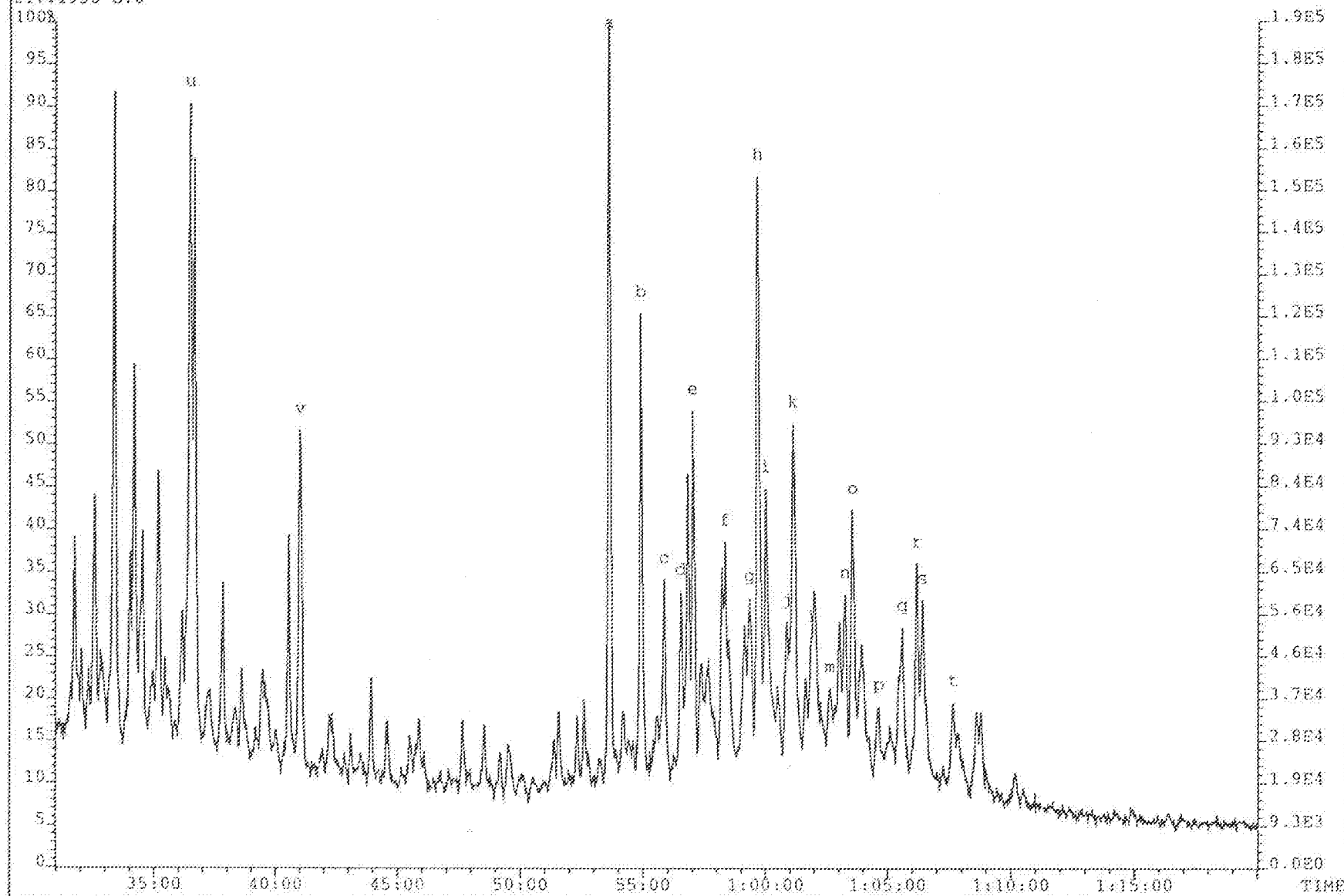
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 H1-4740 Acq:23-SEP-1992 11:30:02 EI+ Magnet S18
Sample#6 Text:WELL 34/10-35, 3894M, SATURATED FRACTION
217.1956 S:6

Exp:SAT1



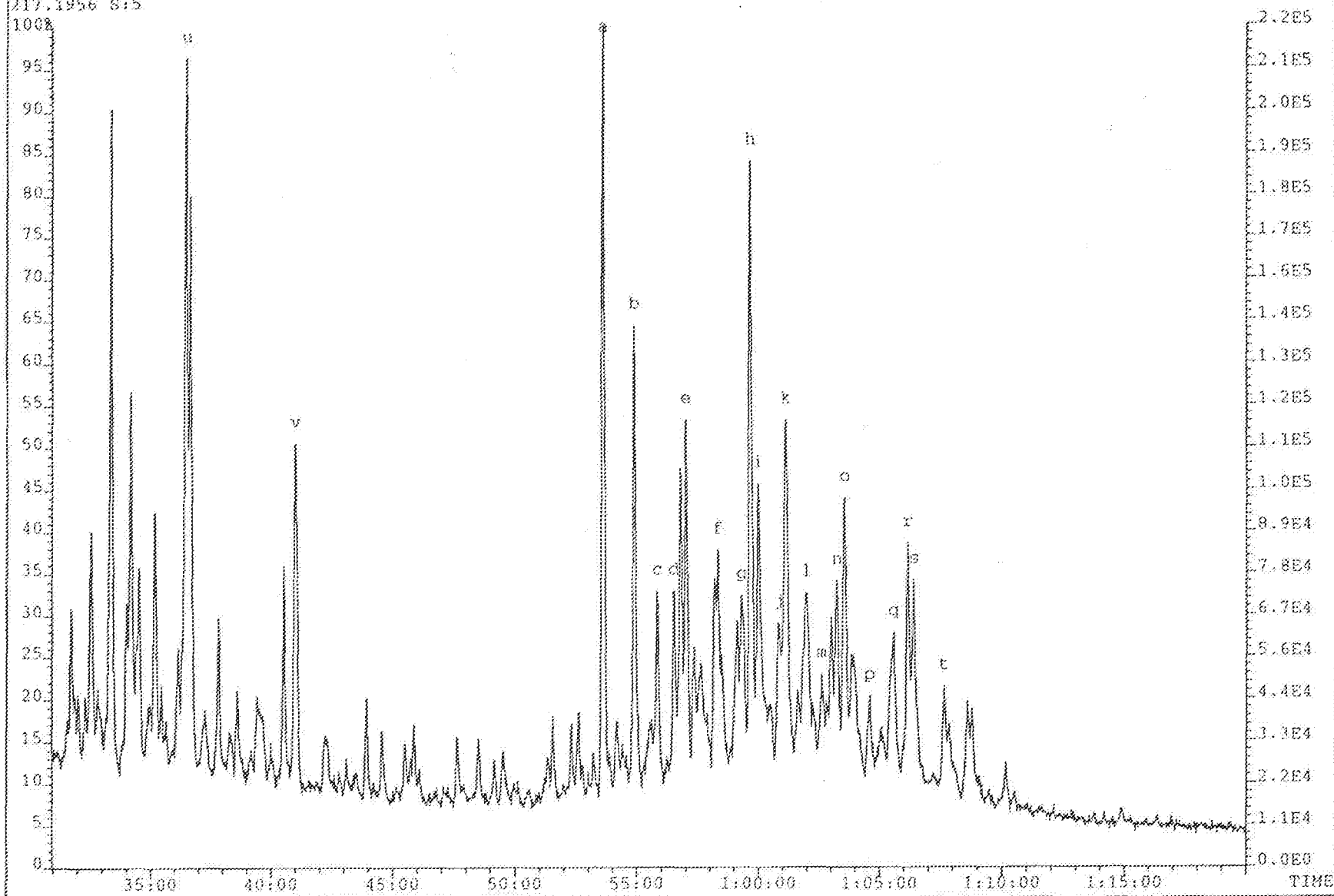
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4/19 Acq:21-SEP-1992 13:30:02 EI+ Magnet SIR
 Sample#5 Text:WELL 34/10-35, 3885M, SATURATED FRACTION
 217.1956 S:5

Exp:SAT1



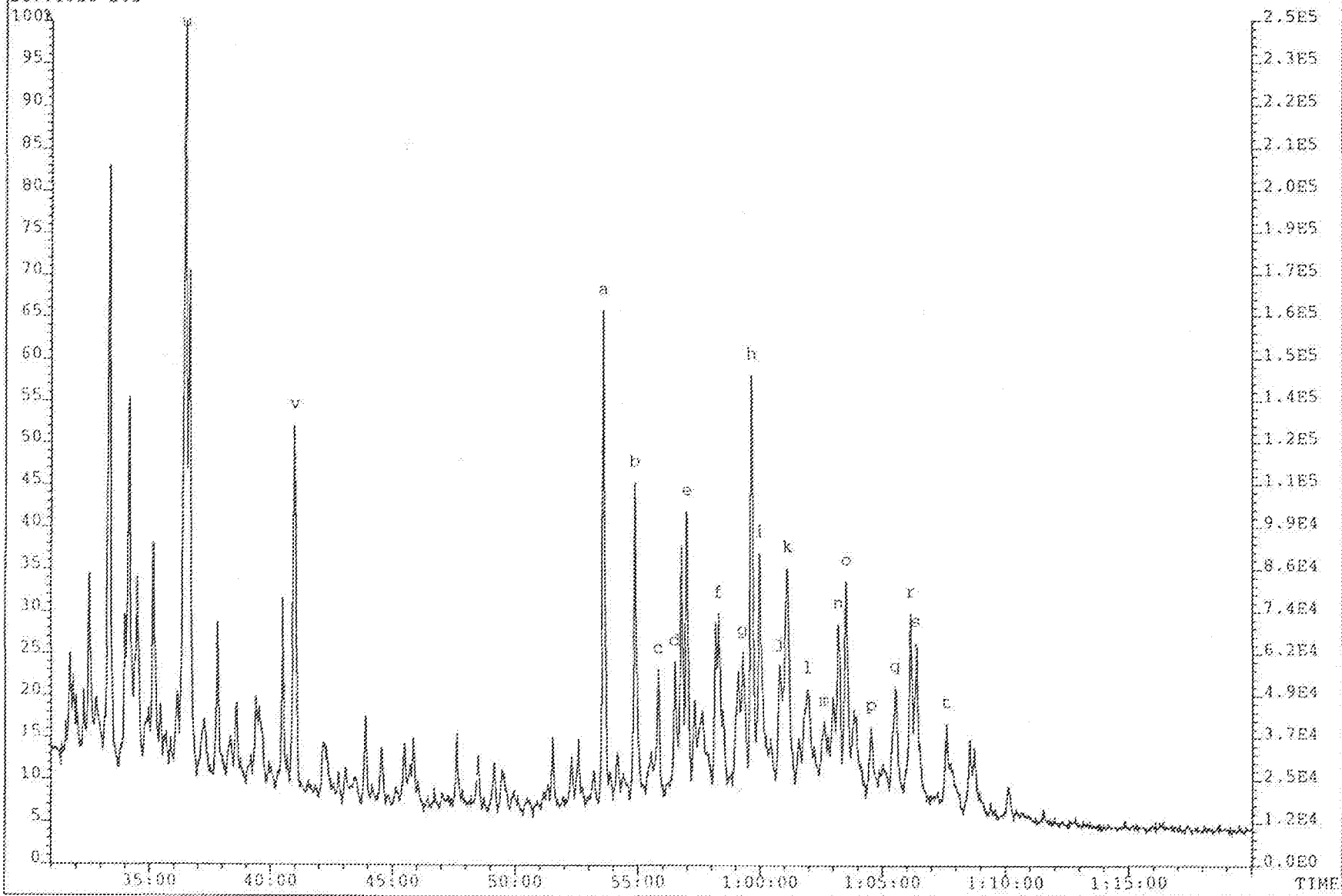
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 41-4740 Acq:22-SEP-1992,14:23:15 EI+ Magnet 3IR
Sample#5 Text:WELL 34/10-35, 1852M, SATURATED FRACTION
217.1956 S:5

Exp: SAT1



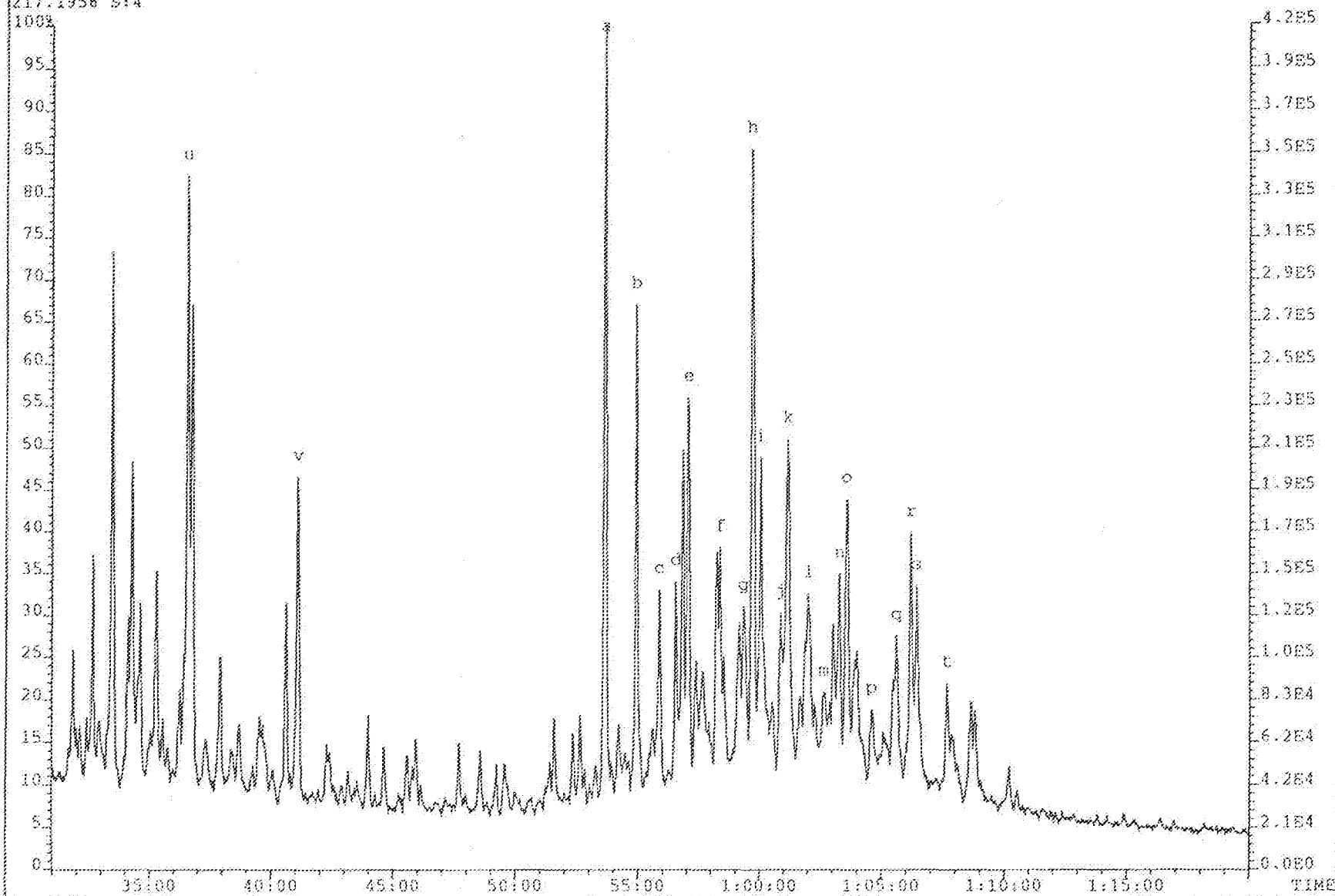
Schlumberger

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GEOLAB  NOR

File:STATSAT2 #1-4740 Acq:12-SEP-1992 14:23:15 EI: Magnet SIR
 Sample#4 Text:WELL: 34/10-15, 3031M, SATURATED FRACTION
 217.1956 S:4

Exp:SAT1



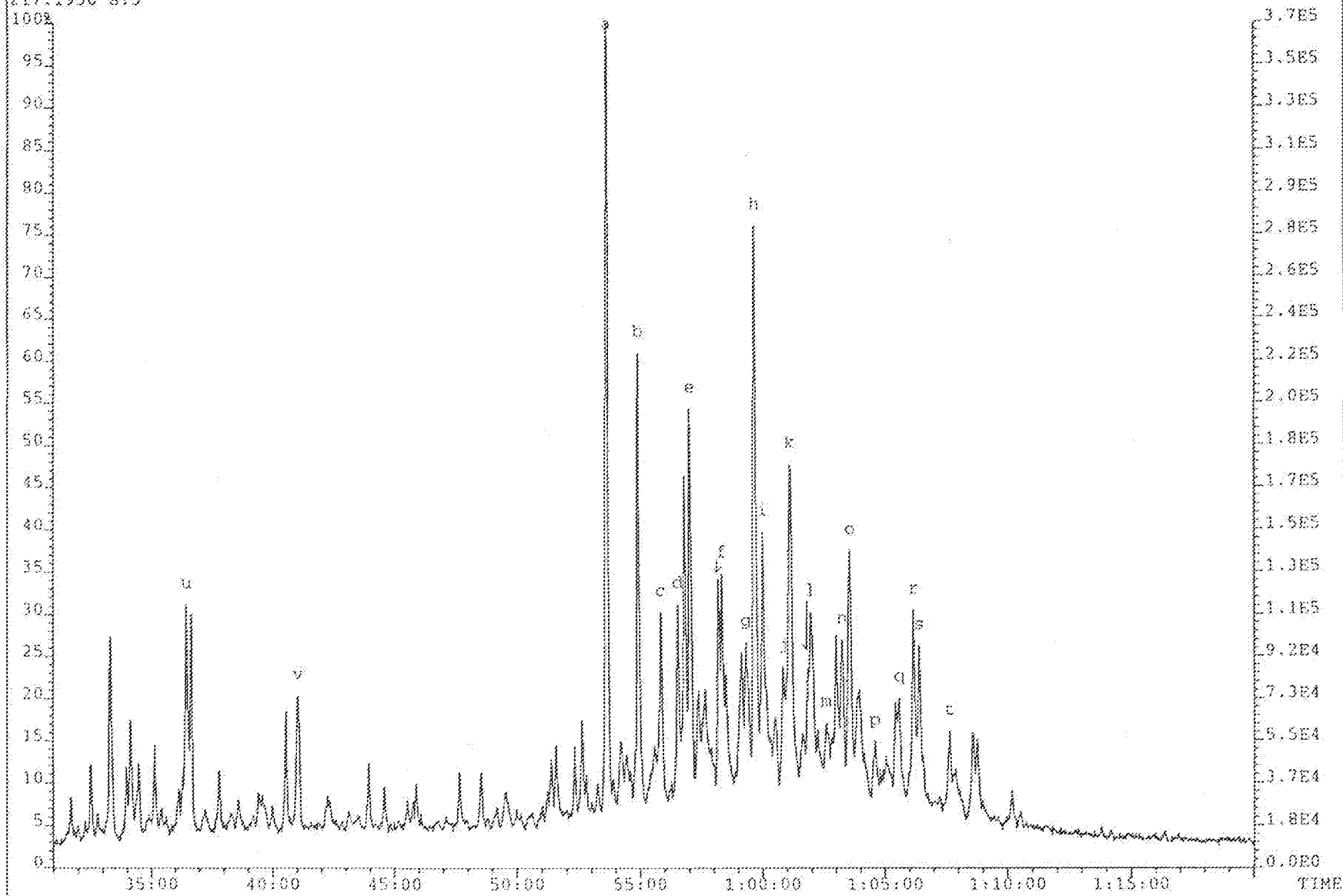
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4739 Acq:22-SEP-1992 14:33:15 ST: Magnet SIR
 Sample#3 Text:WELL 34/10-35, 3530M, SATURATED FRACTION
 217.1956 S:3

Exp:SAT1

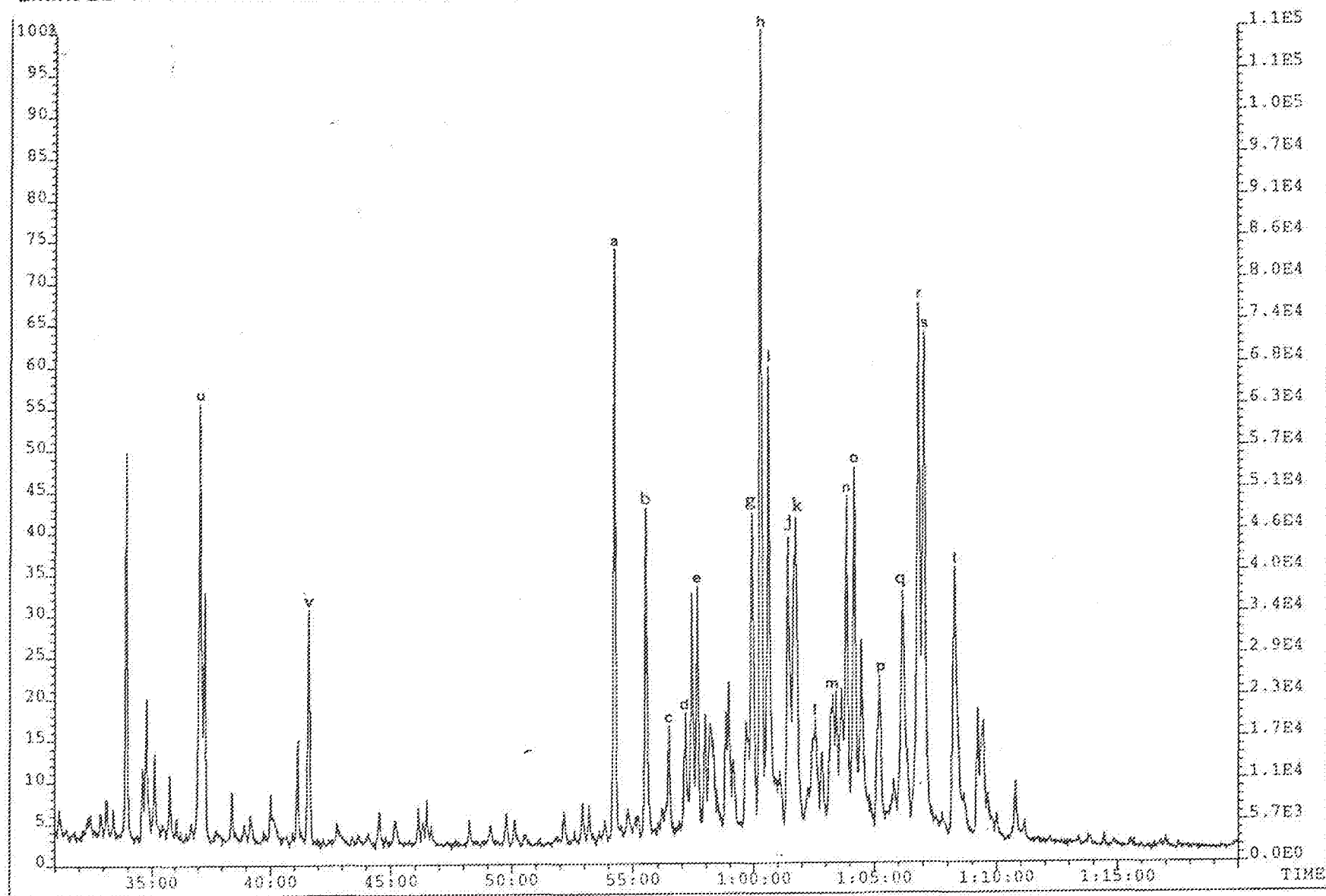


Schlumberger

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GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 217 STERANES

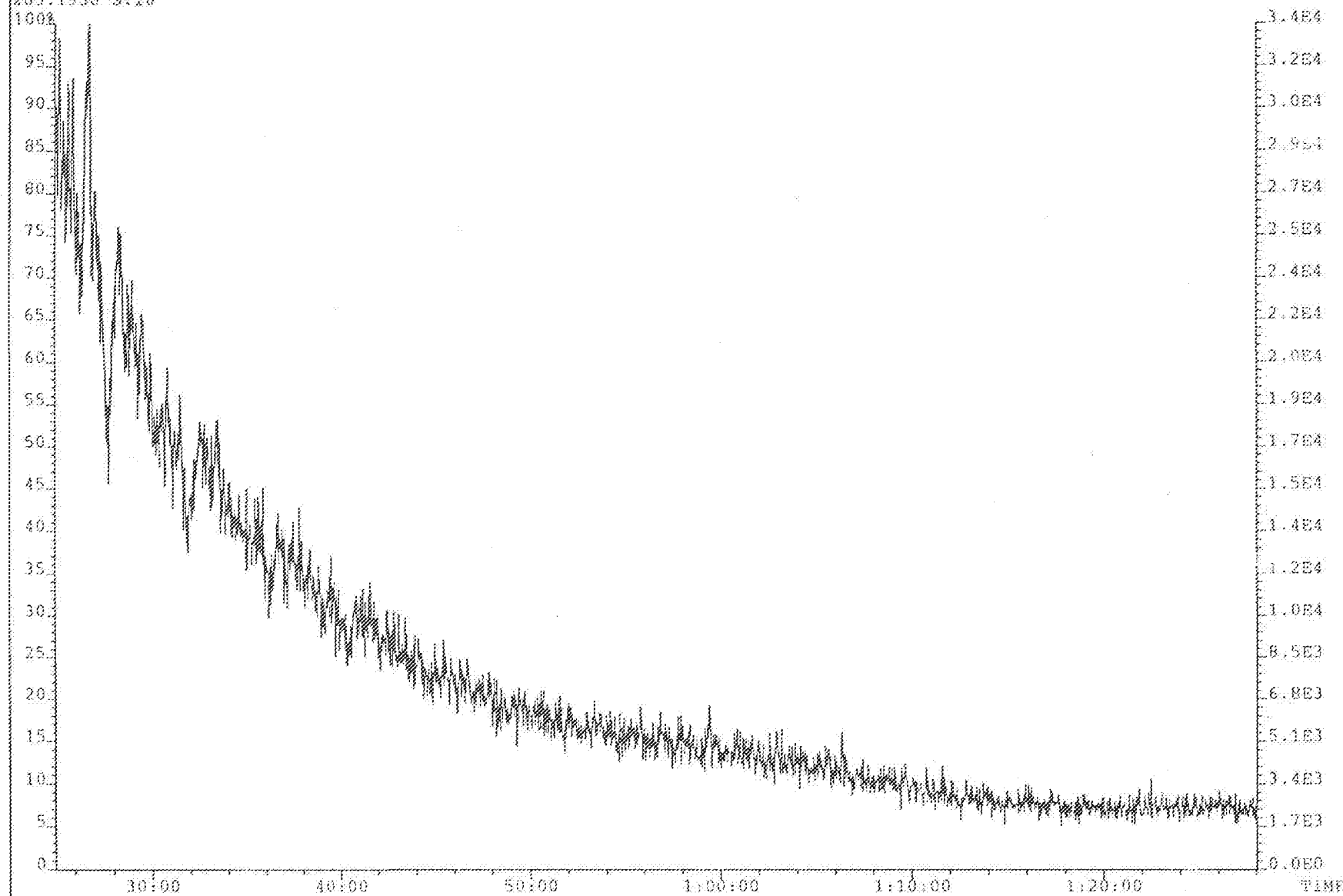


Schlumberger

GECO-PRAXLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:13-SEP-1992 12:20:58 EI+ Magnet SIR
Sample#10 Text:WELL: 34/10-35, OLJE OVER MOD, 3496-3504M, SAT, FRAC. FROM OIL Exp:SAT1
205.1958 9:10

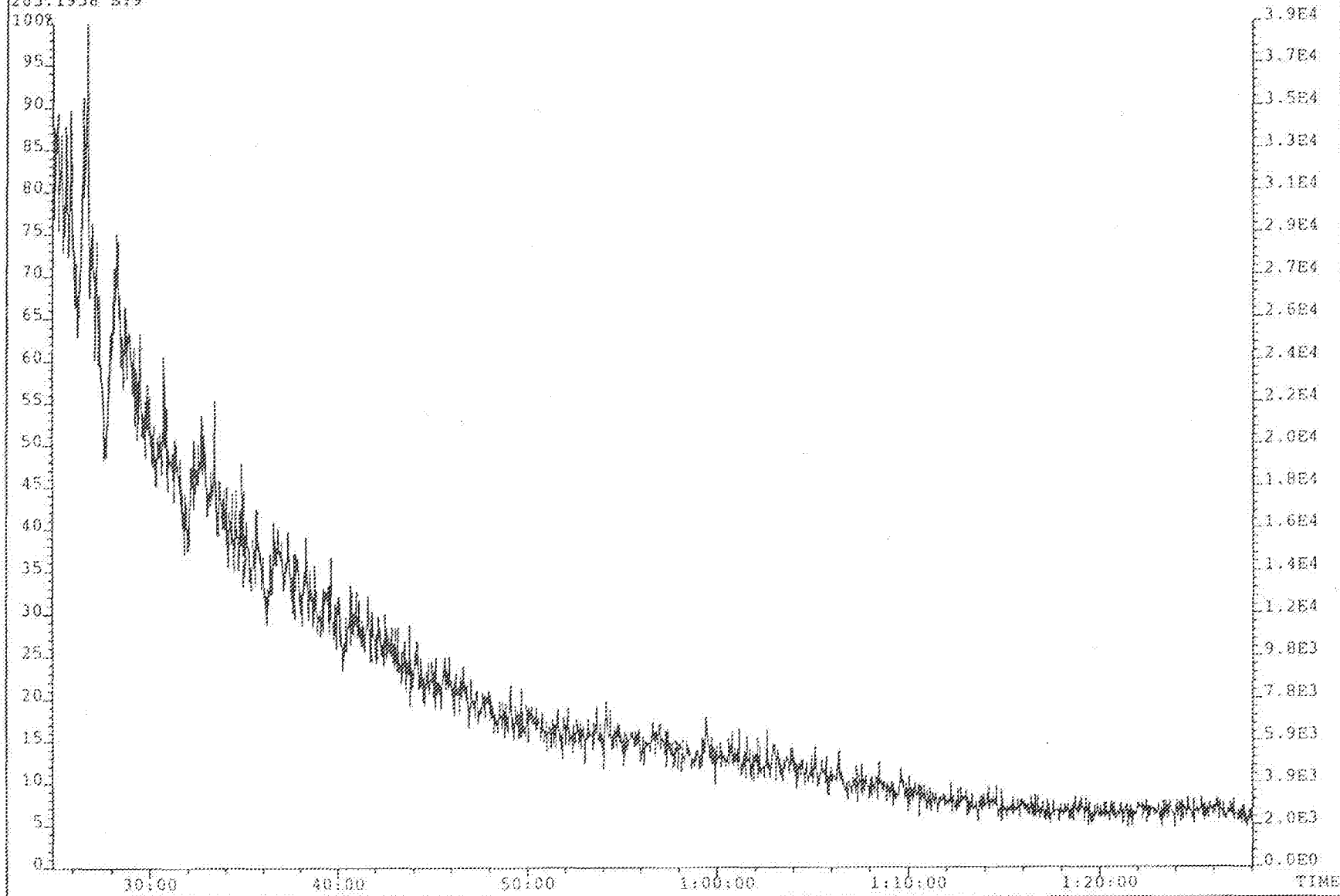


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:13-SEP-1992 12:20:58 S14 Magnet SIR
Sample#9 Text:WELL 34/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL Exp:SAT1
205.1956 S:9

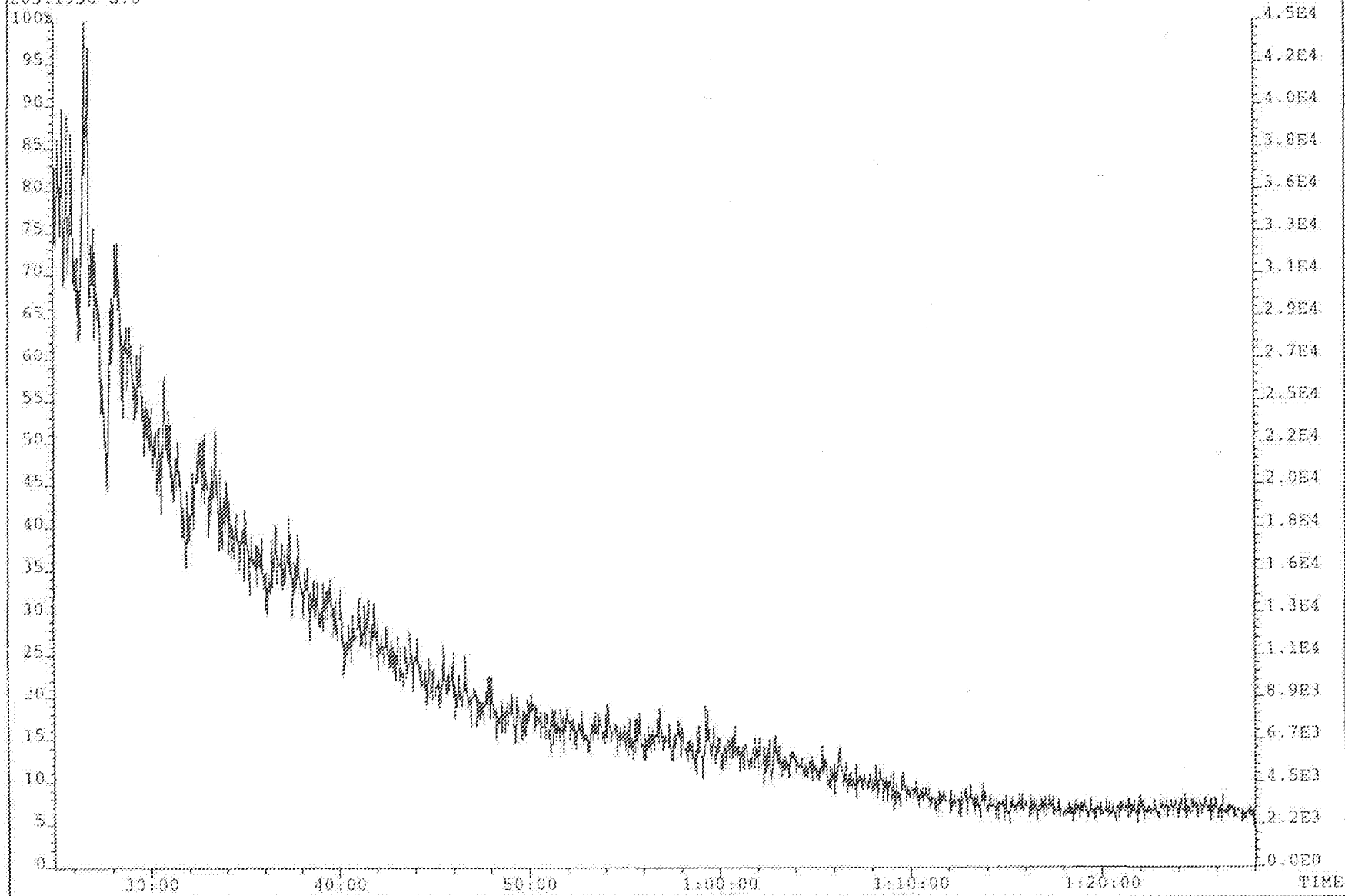


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4740 Acq:23-SEP-1992 12:20:50 EI+ Magnet SIR
Sample#8 Text:WELL 34/10-35, DST2, 3984-3995M, SATURATED FRACTION FROM OIL Exp:SAT1
205.1956 S:8

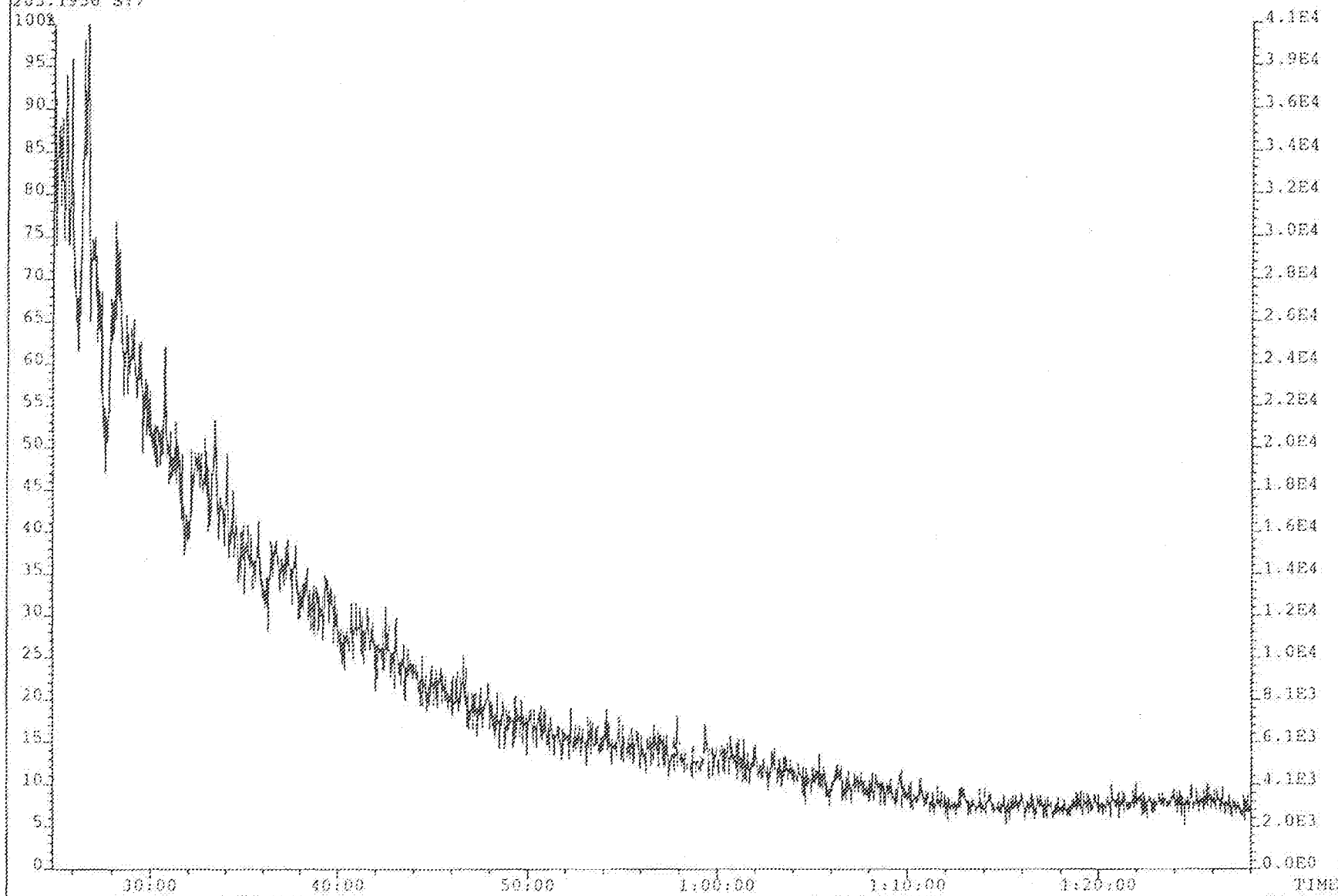


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 W1-4740 Acq:23-SEP-1992 12:20:58 EI: Magnet SIR
Sample#7 Text:WELL 34/10-35, DST1, 4015-25M, SATURATED FRACTION FROM OIL Exp:SAT1
205.1956 S:7



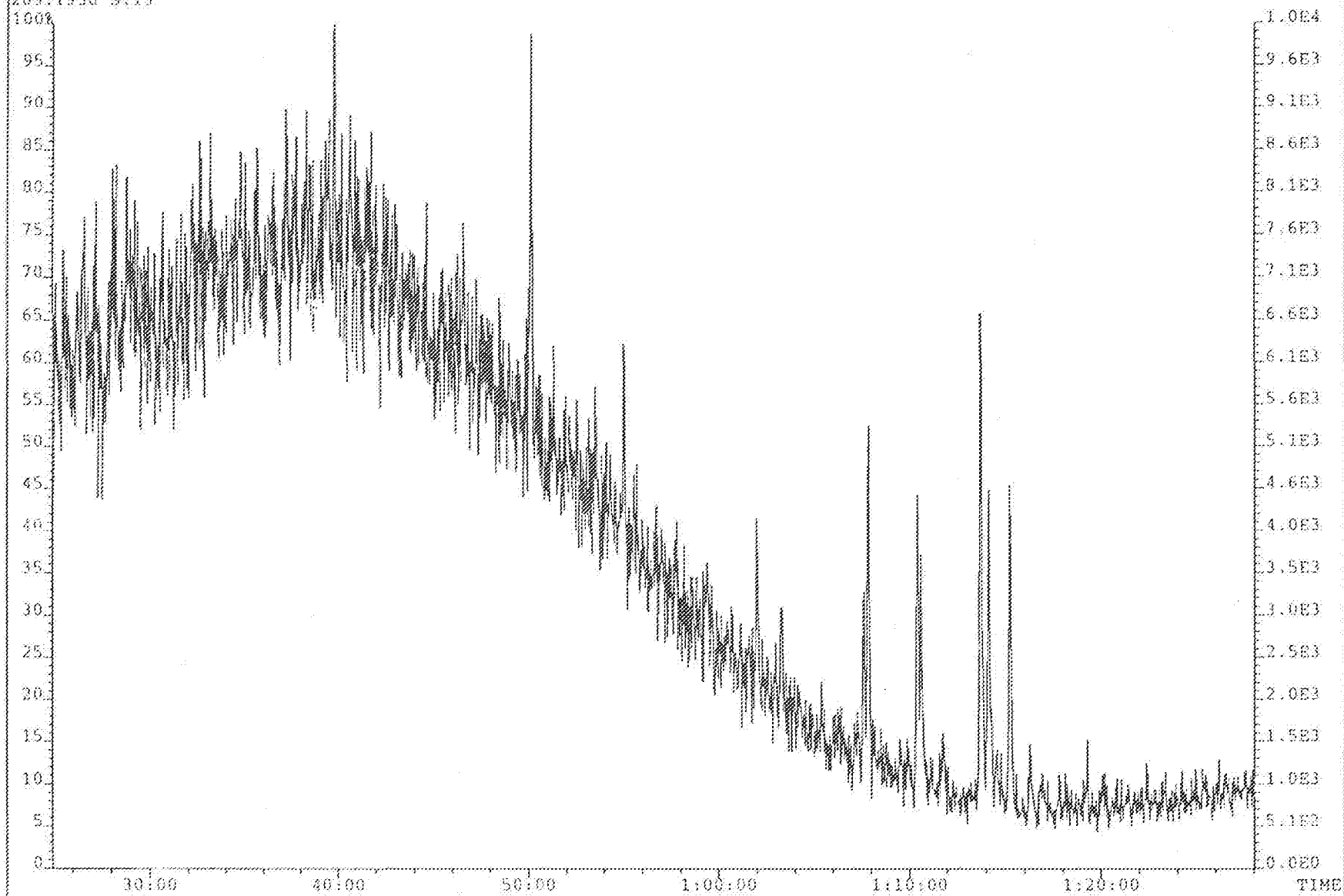
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4740 Acq: 22-SEP-1992 12:15:05 E1: Magnet SIR
Sample#13 Text: WELL 34/10-35, 4283.48M, SATURATED FRACTION
205.1956 9:13

Exp: SAT1



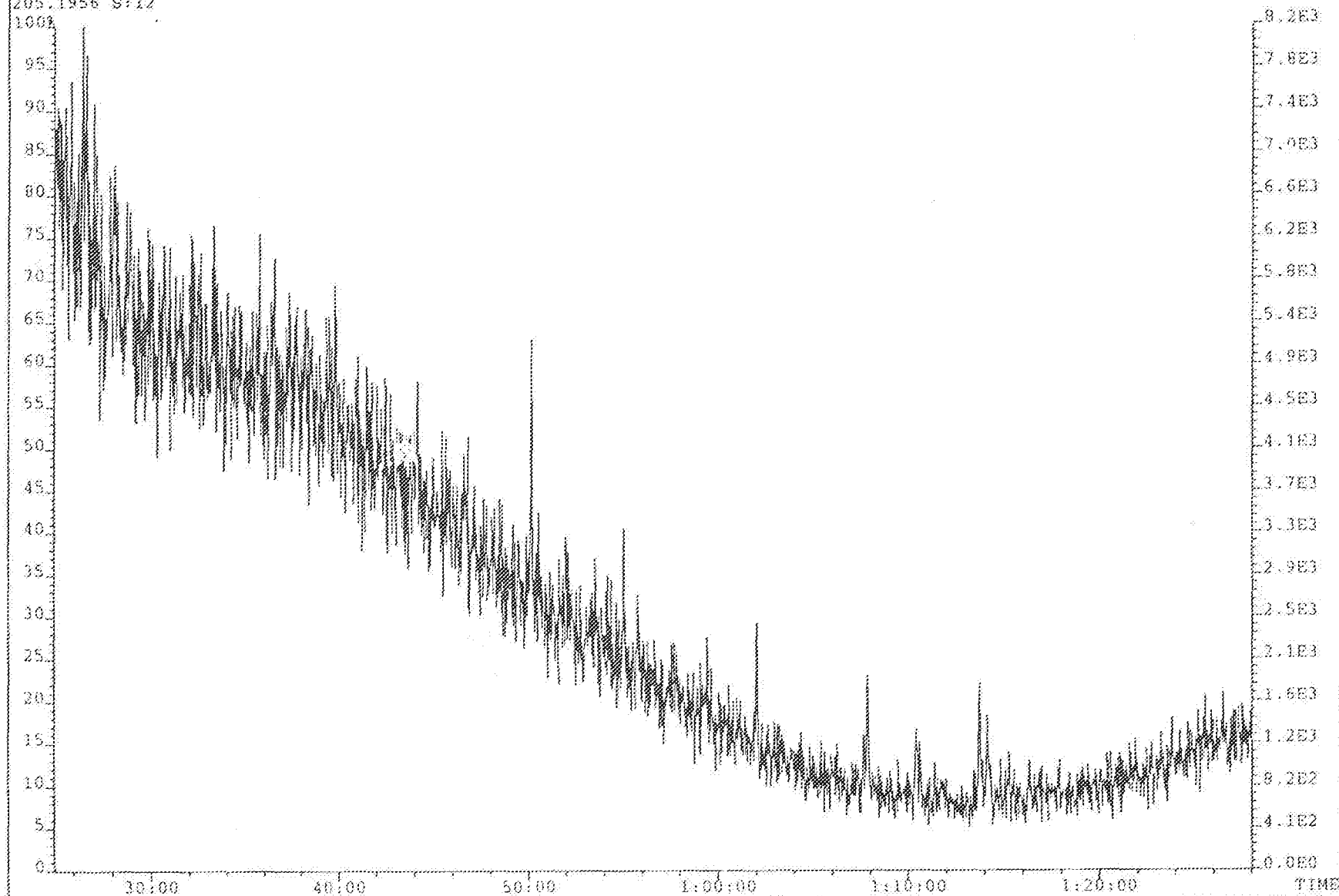
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4741 Acq: 22-SEP-1992 12:15:05 EI+ Magnet SIR
Sample#12 Text: WELL 34/10-35, 4270.75M, SATURATED FRACTION
205.1958 S:12

Exp: SAT1



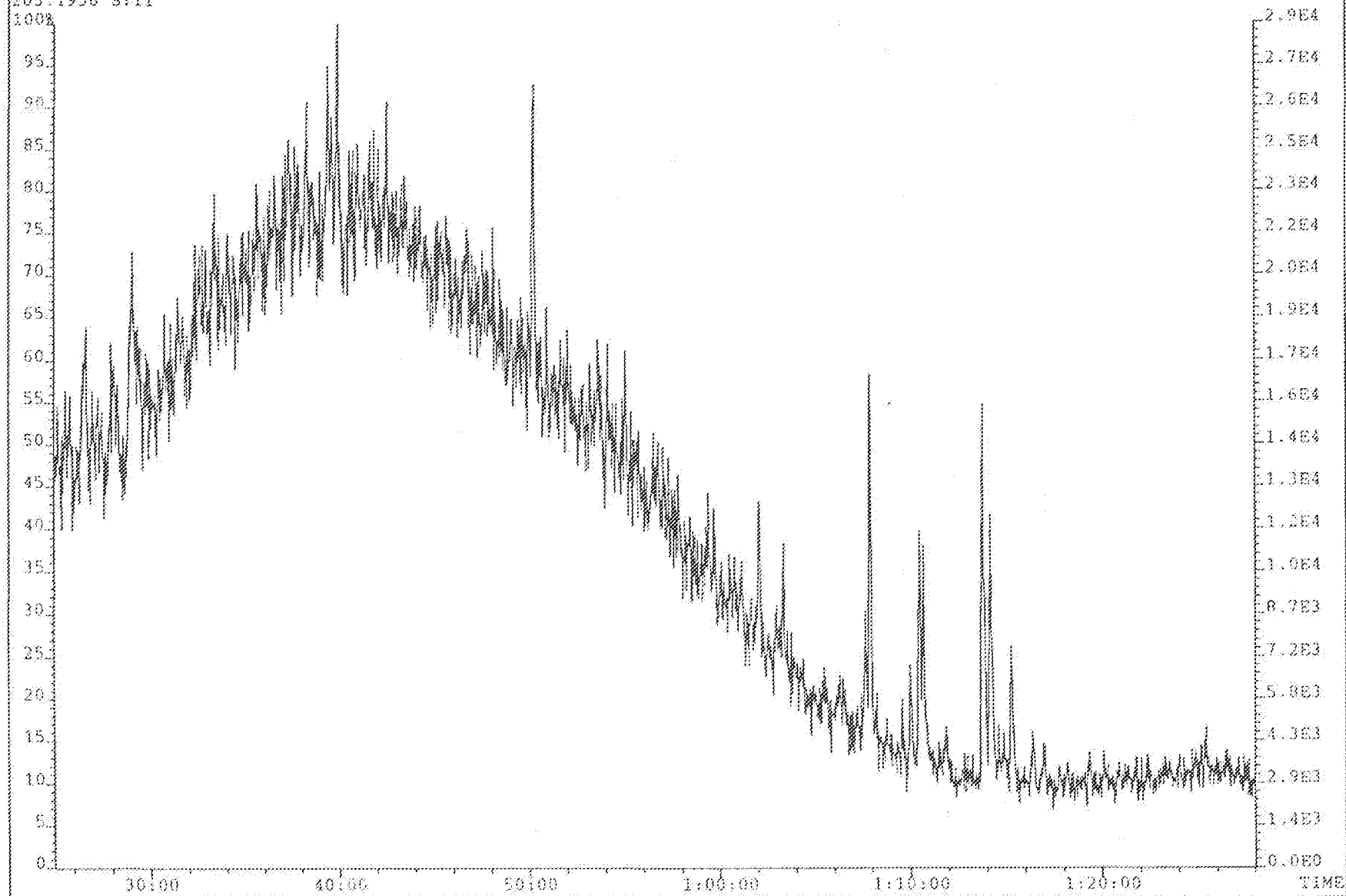
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:23-SEP-1992 12:15:05 EI: Magnet SIR
Sample#11 Text:WELL 34/10-35, 4257.47R, SATURATED FRACTION
205.1956 9:11

Exp:SAT1



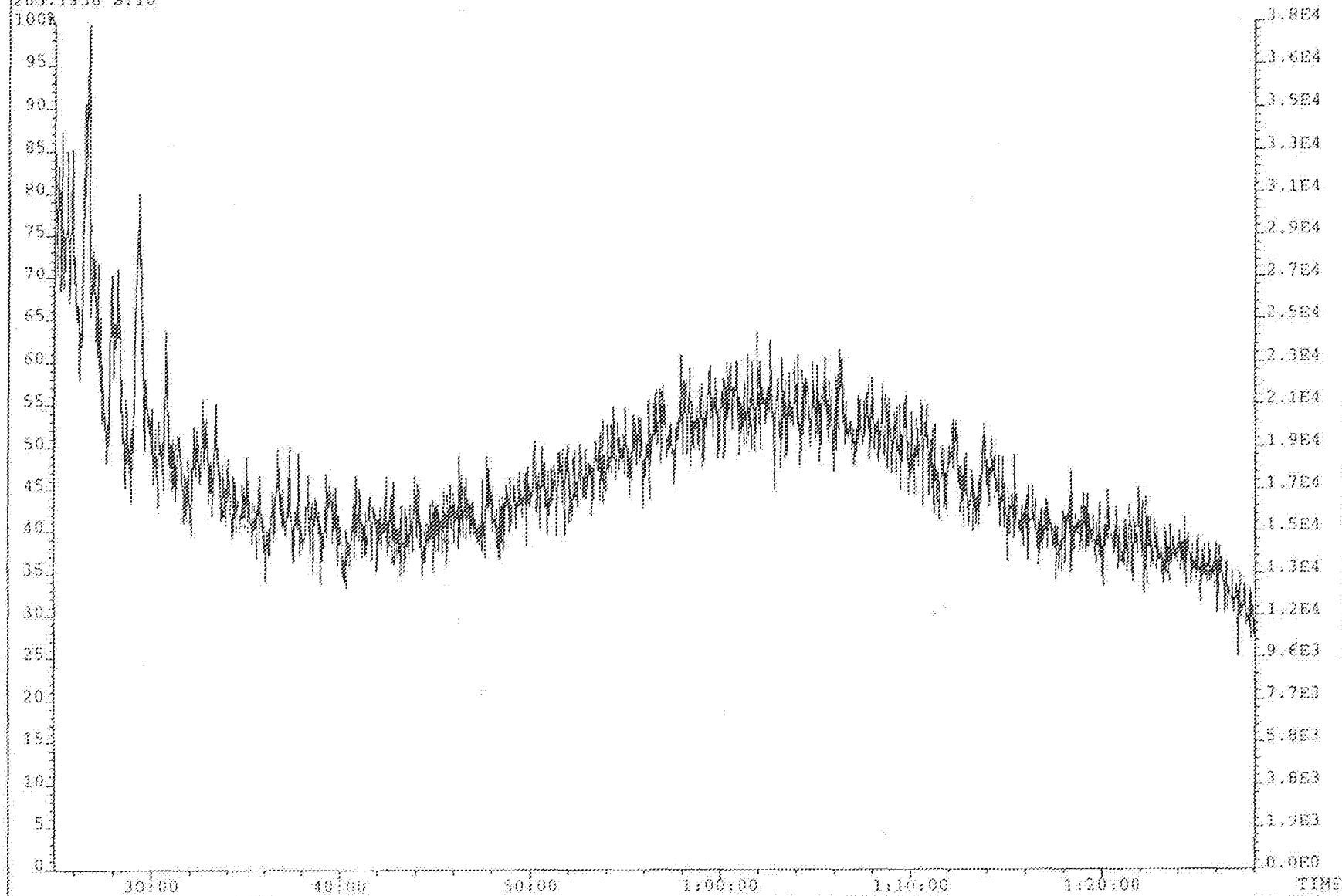
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4739 Acq: 22-SEP-1992 12:15:05 EI+ Magnet SIR
Sample#10 Text: WELL 34/10-35, 4021.93M, SATURATED FRACTION
205.1956 S:10

Exp: SAT1



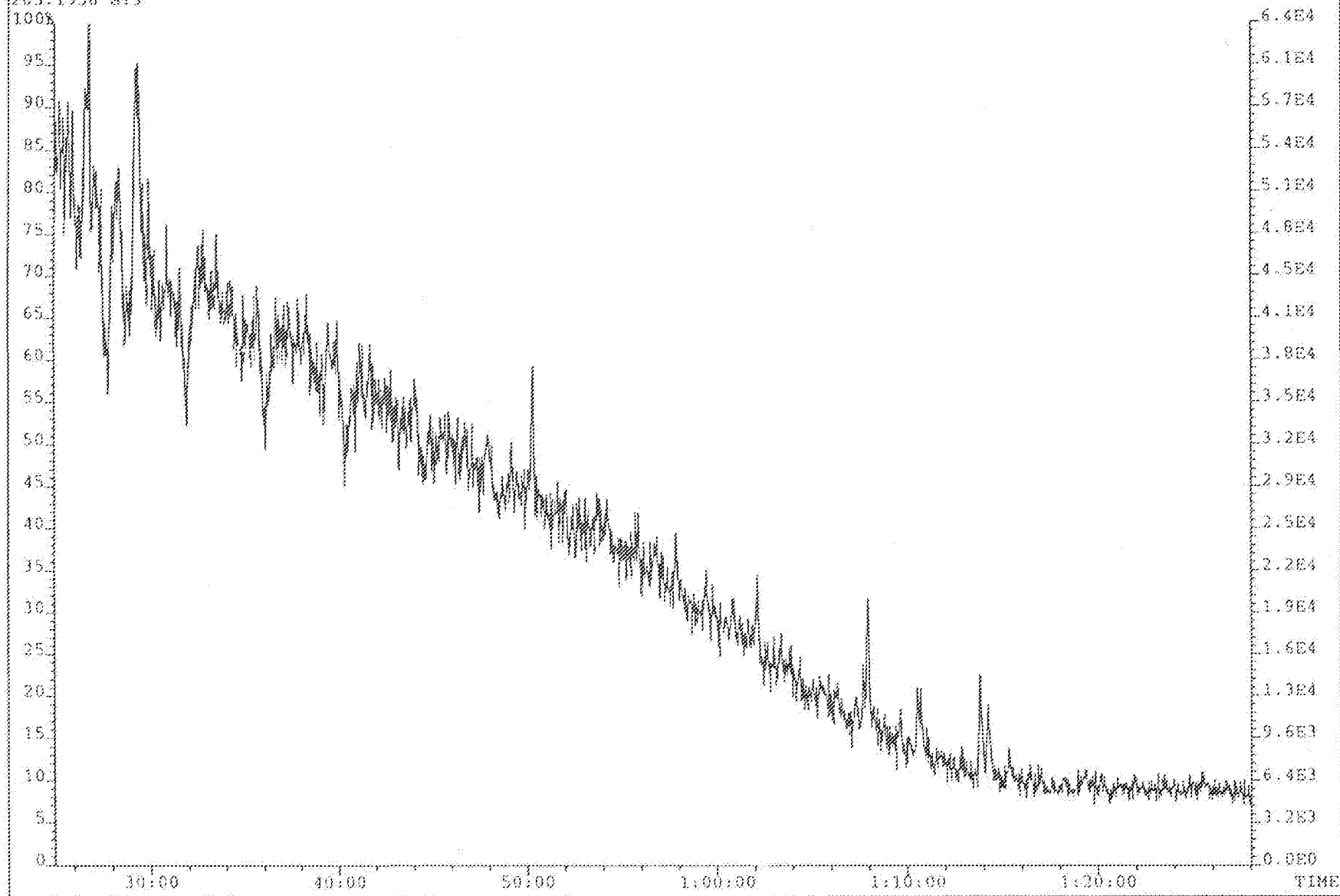
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4739 Acq: 22-SEP-1993 12:15:05 EI: Magnet SIR
Sample#9 Text: WELL 34/10-15, 4006.17M, SATURATED FRACTION
205.1956 S:9

Exp: SAT1



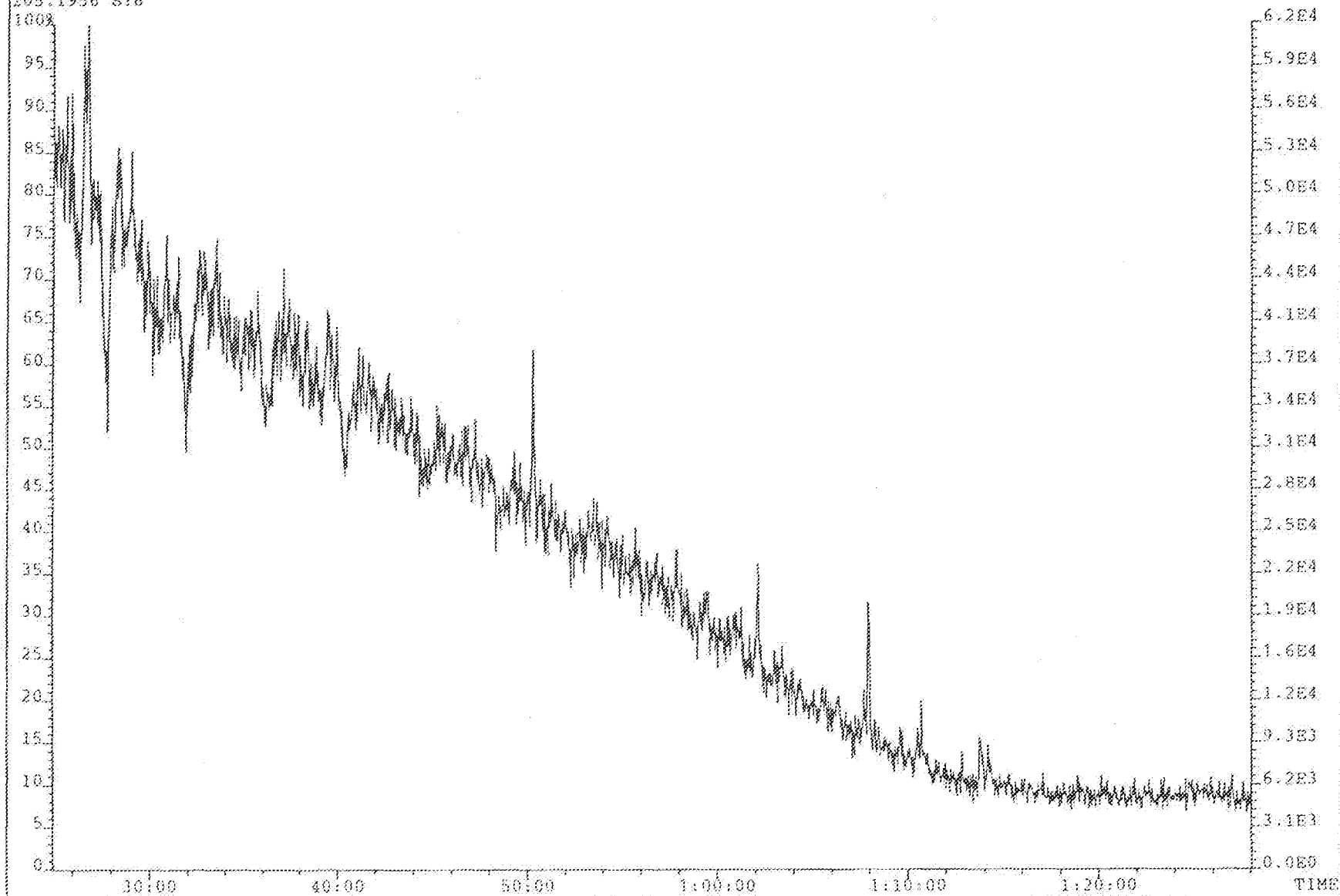
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 N1-4739 Acq:21-SEP-1997 12:15:05 EI+ Magnet SIR
Sample#8 Text:WELL 34/10-35, 1994.05M, SATURATED FRACTION
205.1956 S:8

Exp:SAT1



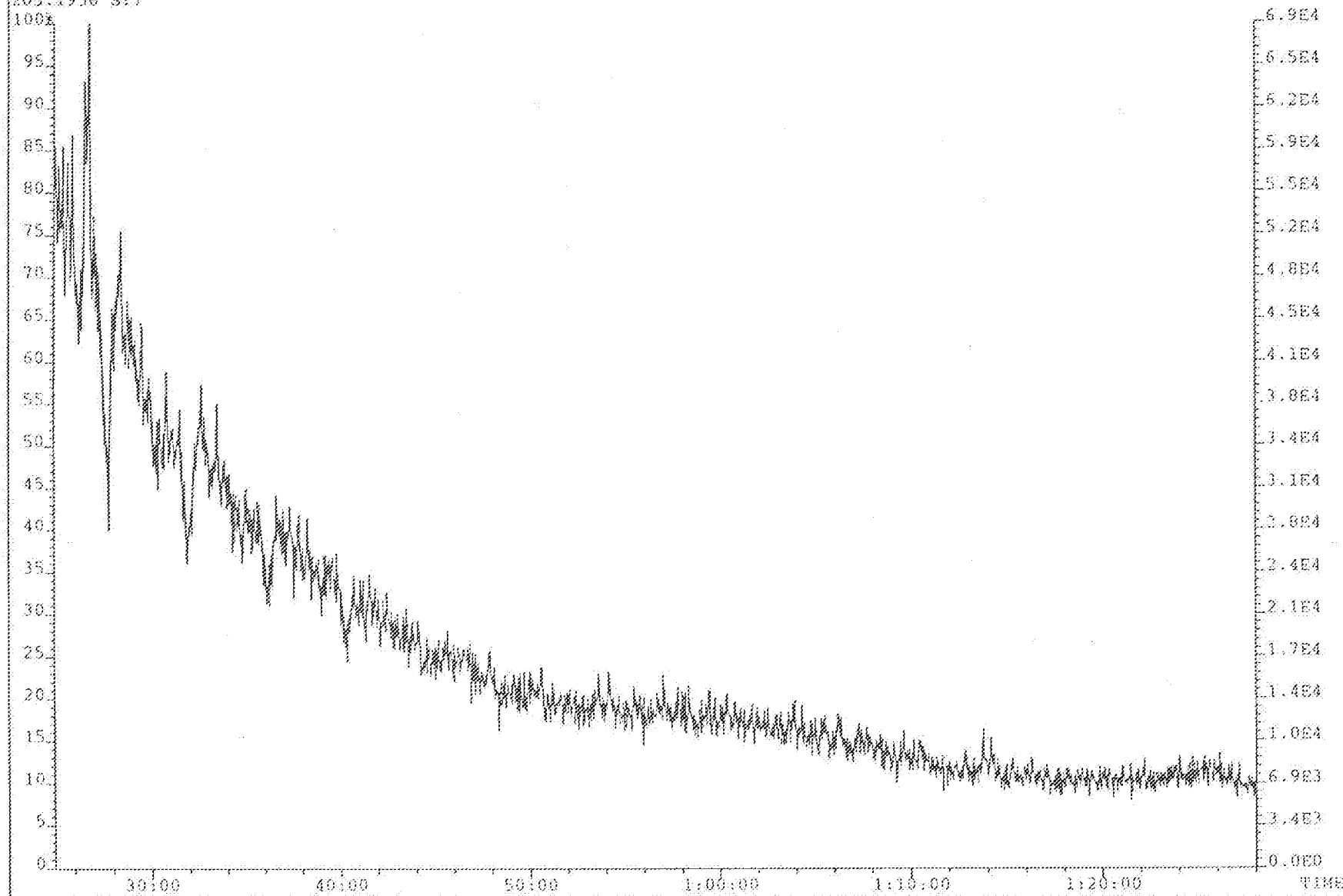
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 12:15:05 E1+ Magnet SIR
Sample#7 Text:WELL 34/10-35, 3933.16M, SATURATED FRACTION
205.1956 S:7

Exp:SAT1



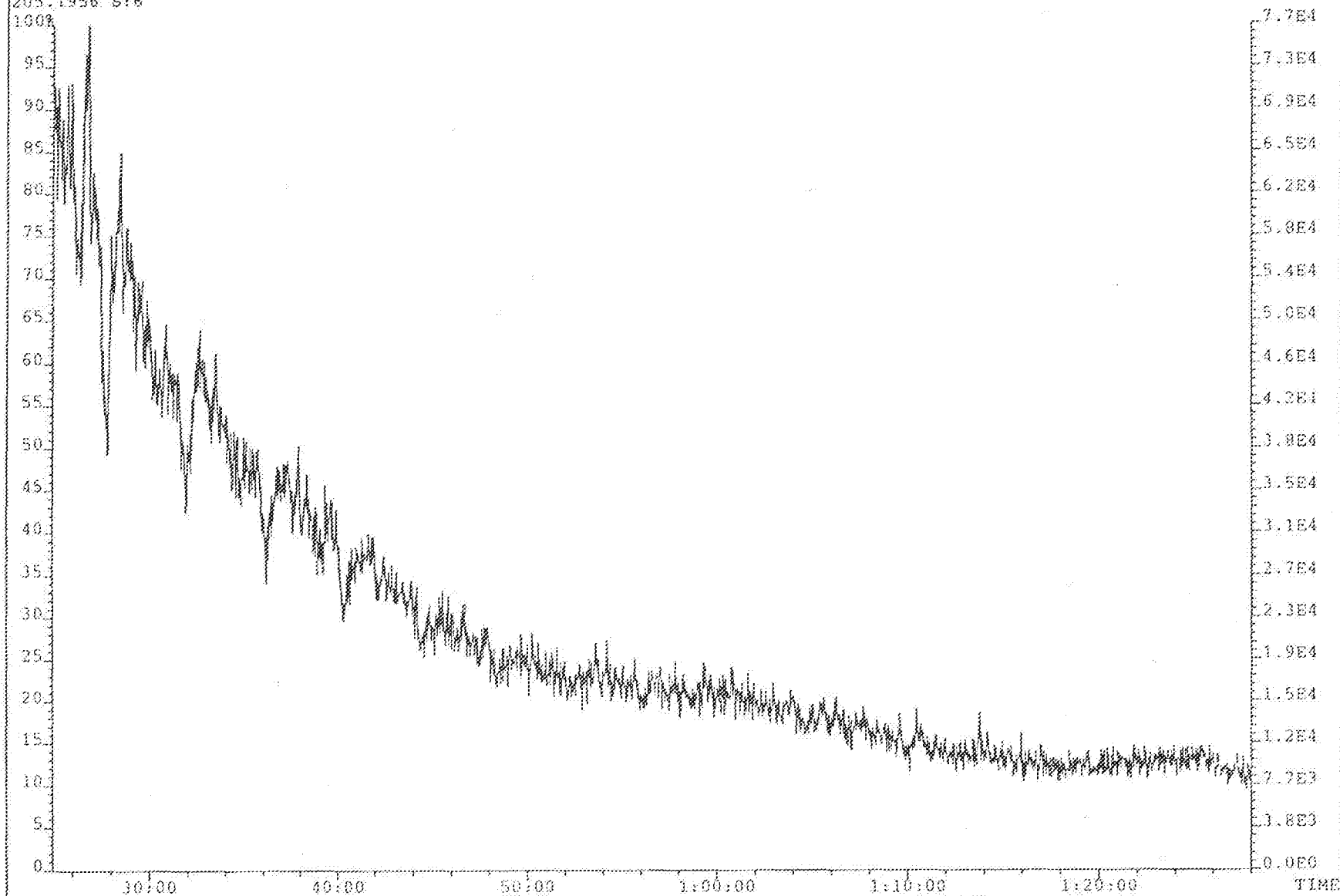
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT2 #1-4739 Acq: 22-SEP-1992 12:15:05 EI+ Magnet SIR
Sample#6 Text: WELL 34/10-35, 3931.71M, SATURATED FRACTION
205.1956 S:6

Exp: SAT1



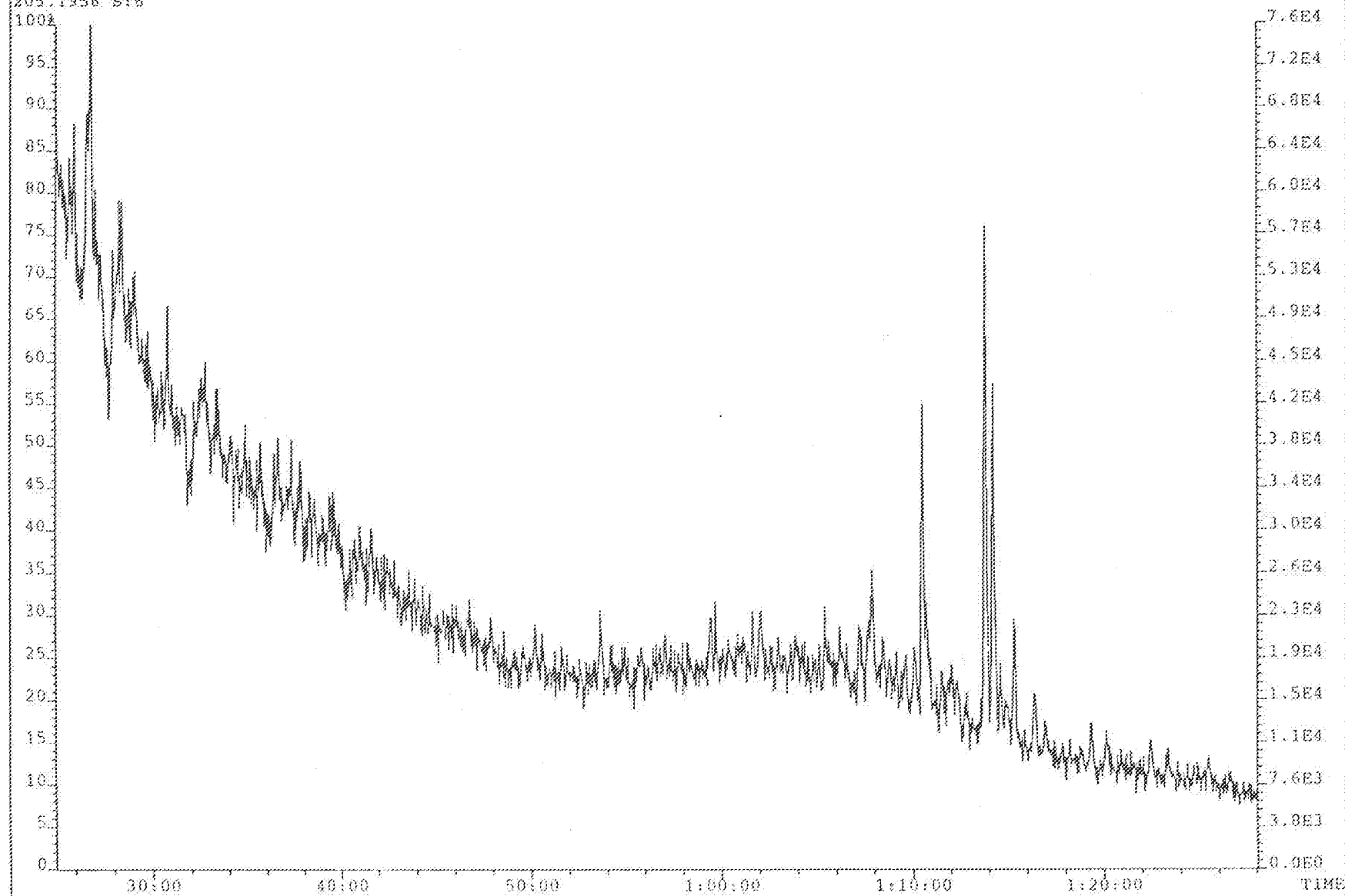
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:23-SEP-1992 17:20:58 EI+ Magnet SIM
Sample#6 Text:WELL 34/10-35, 3894M, SATURATED FRACTION
205.1956 S:6

Exp:SAT1



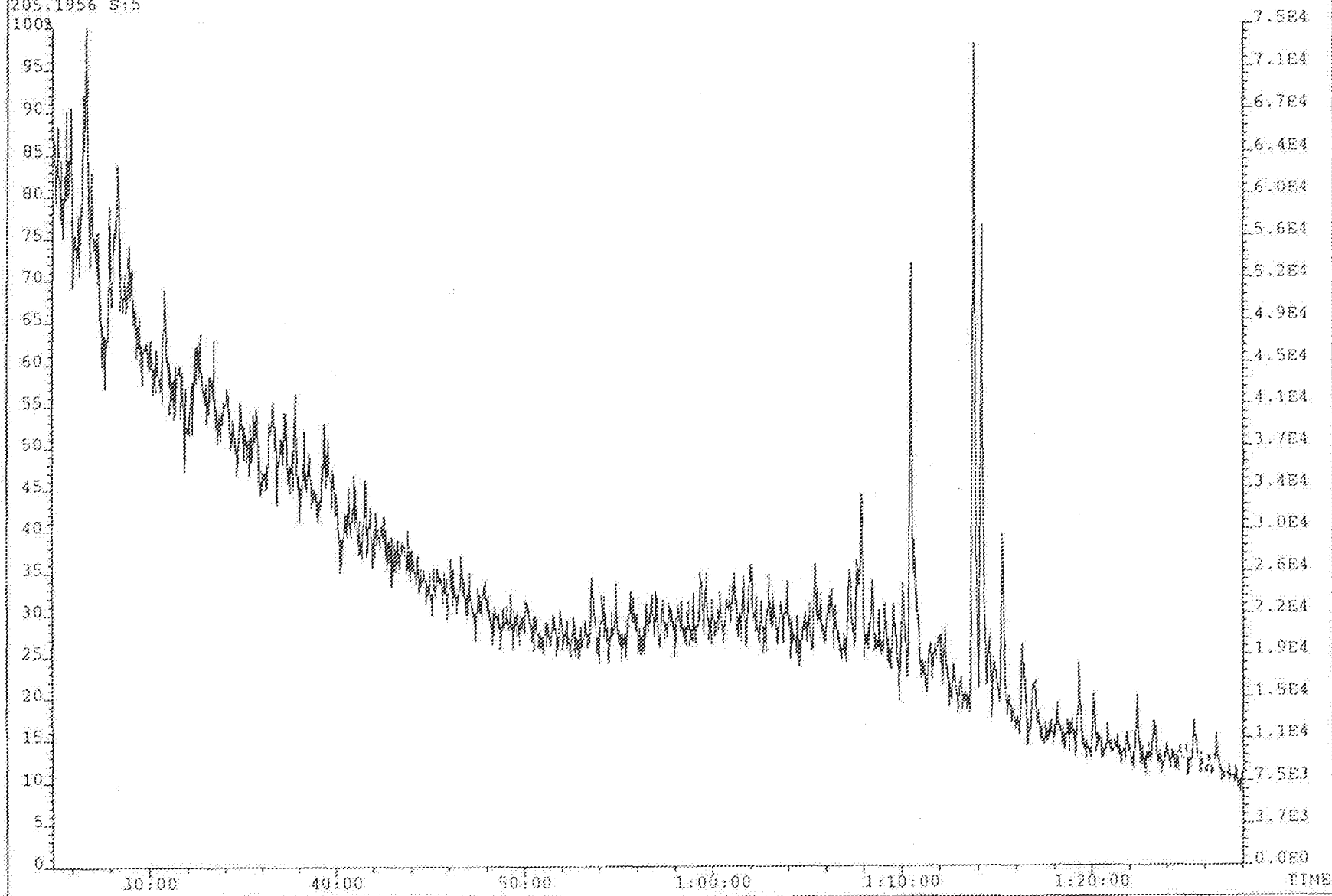
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992 12:20:54 EI+ Magnet SIR
Sample#5 Text:WELL 34/10-35, 3885M, SATURATED FRACTION
205.1956 S:5

Exp:SAT1



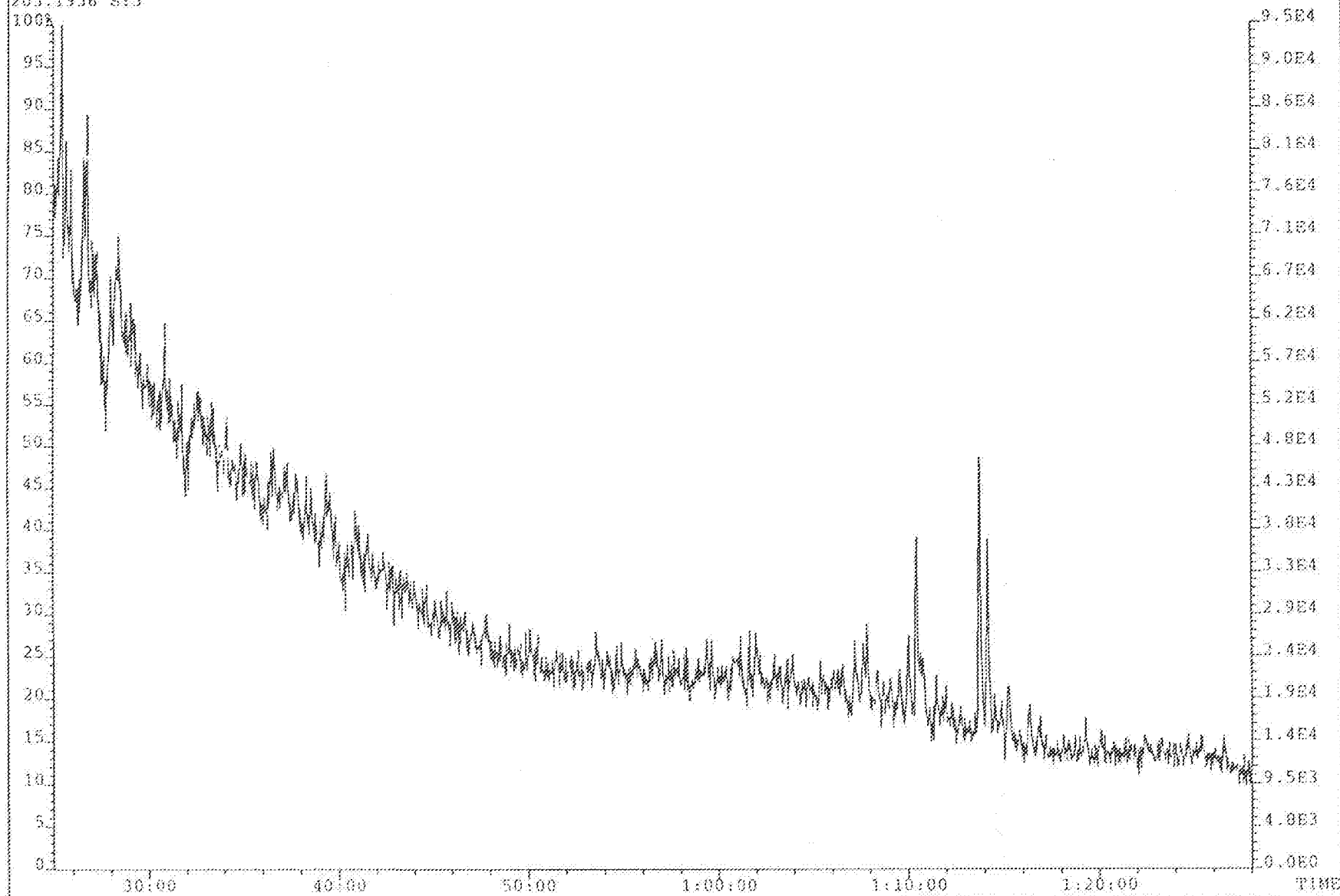
Schlumberger

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GEOLAB NOR

File: STAPSAT2 W1-4740 Acq: 22-SEP-1992 12:15:05 E1: Magnet SIR
Sample#5 Text: WELL 34/10-35, 3653M, SATURATED FRACTION
205.1956 S:5

Exp: SAT1



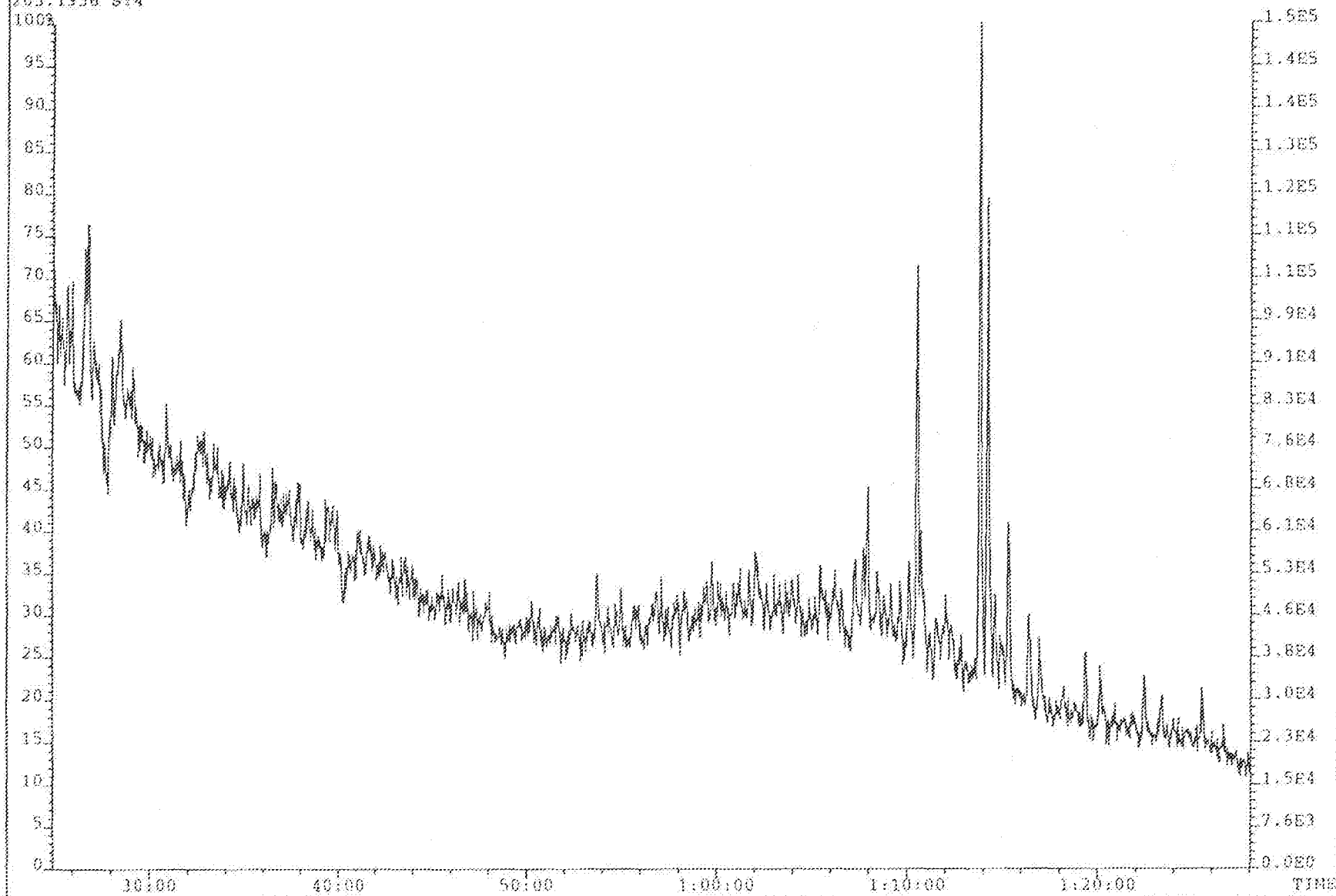
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4740 Acq:27-SEP-1992 12:15:05 ET: Magnet 3IR
Sample#4 Text:WELL 34/10-35, 3931M, SATURATED FRACTION
205.1956 S:4

Exp:SAT1



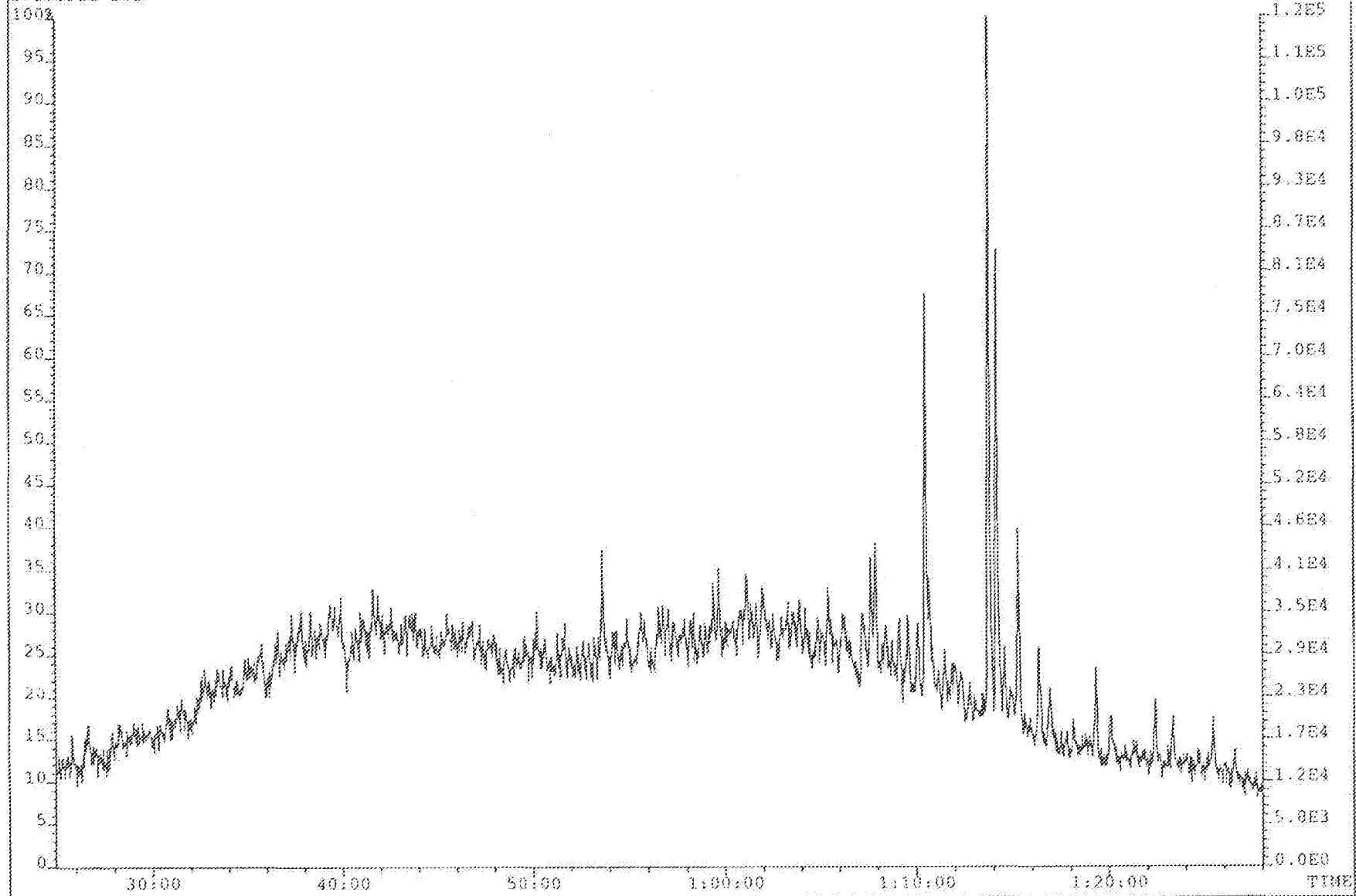
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 12:15:05 EI: Magnet SIR
Sample#3 Text:WELL 34/10-35, 3530M, SATURATED FRACTION
205.1956 9:3

Exp:SAT1

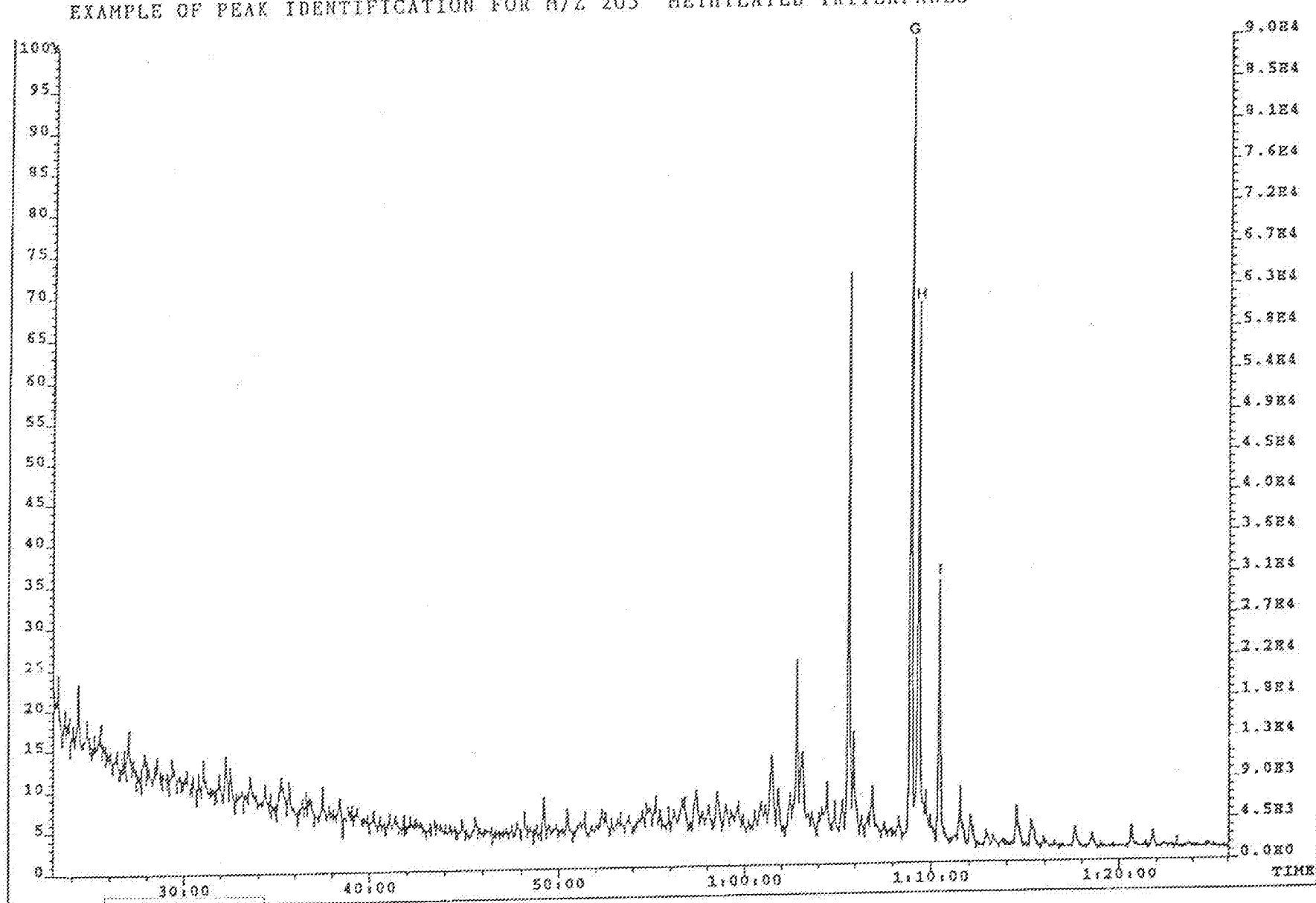


Schlumberger

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GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 205 METHYLATED TRITERPANES

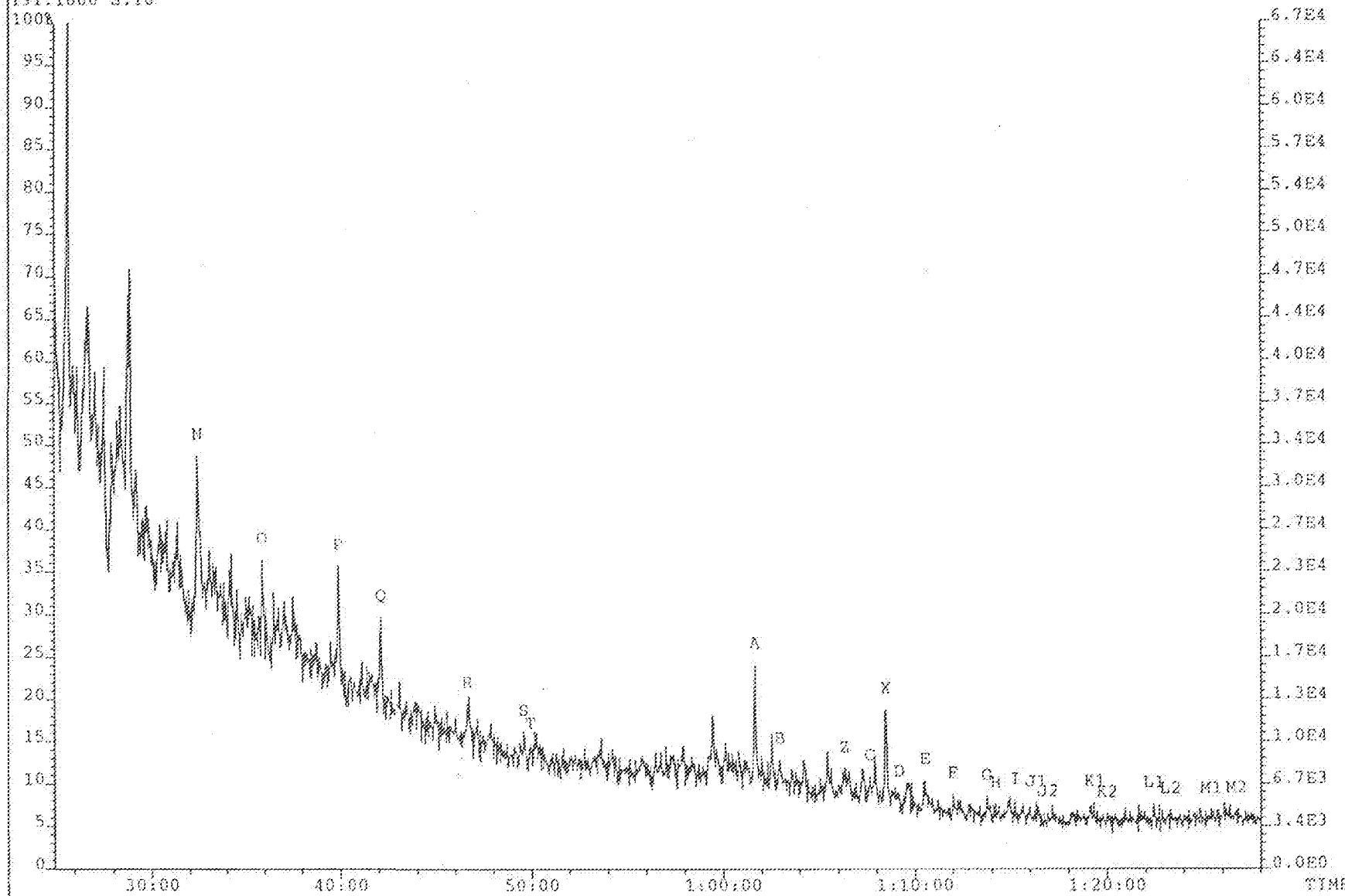


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992 11:30:02 EI+ Magnet SIR
 Sample#10 Text:WELL 34/10-35, OIJE OVER MUD, 3496-3504M, SAT. FRAC. FROM OIL Exp:SAT1
 191.1800 S:10



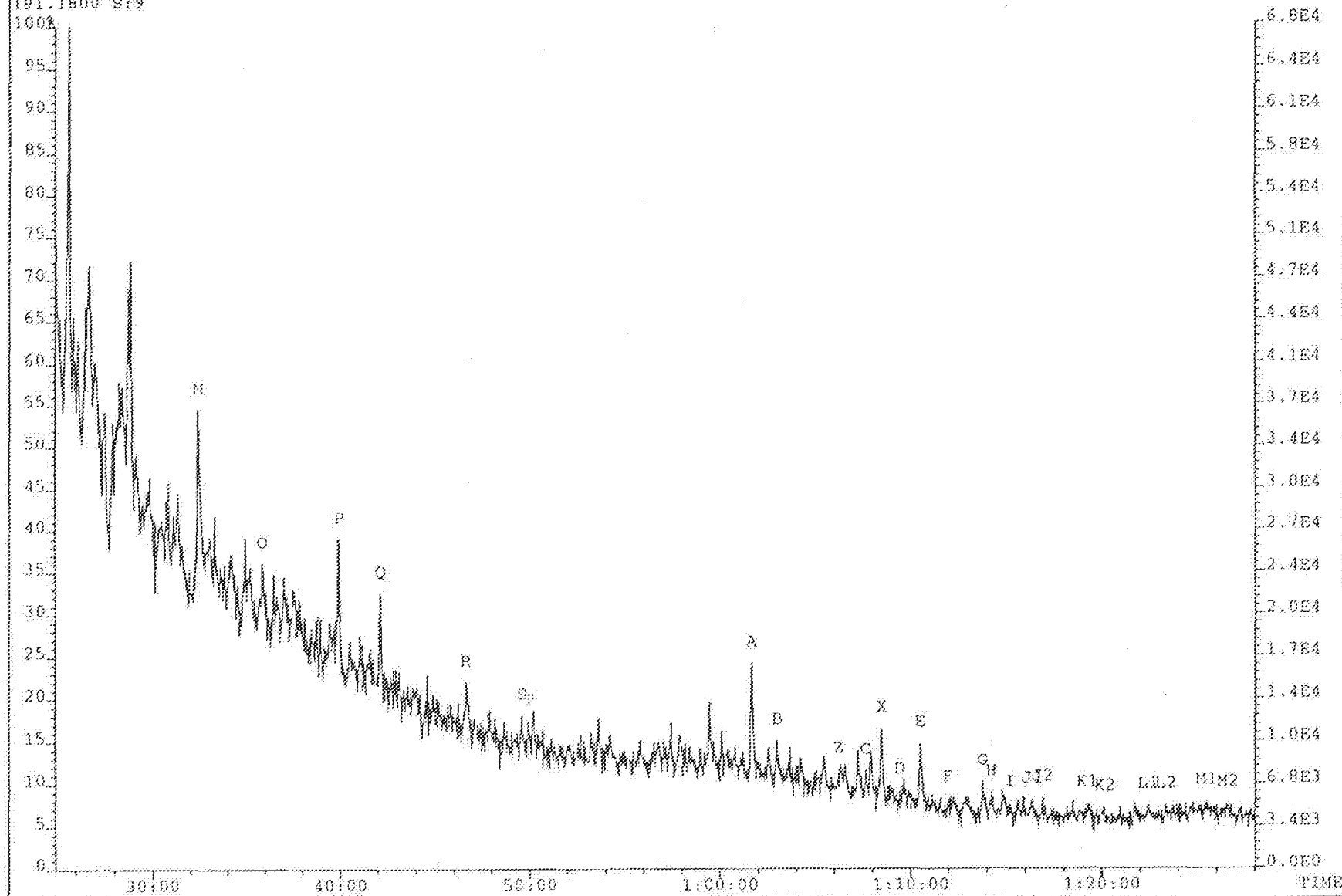
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT1 W1-4740 Acq: 23-SEP-1992 01:10:02 EI+ Magnet SIR
 Sample#9 Text: WELL 34/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL
 191.1800 S:9

Exp: SAT1

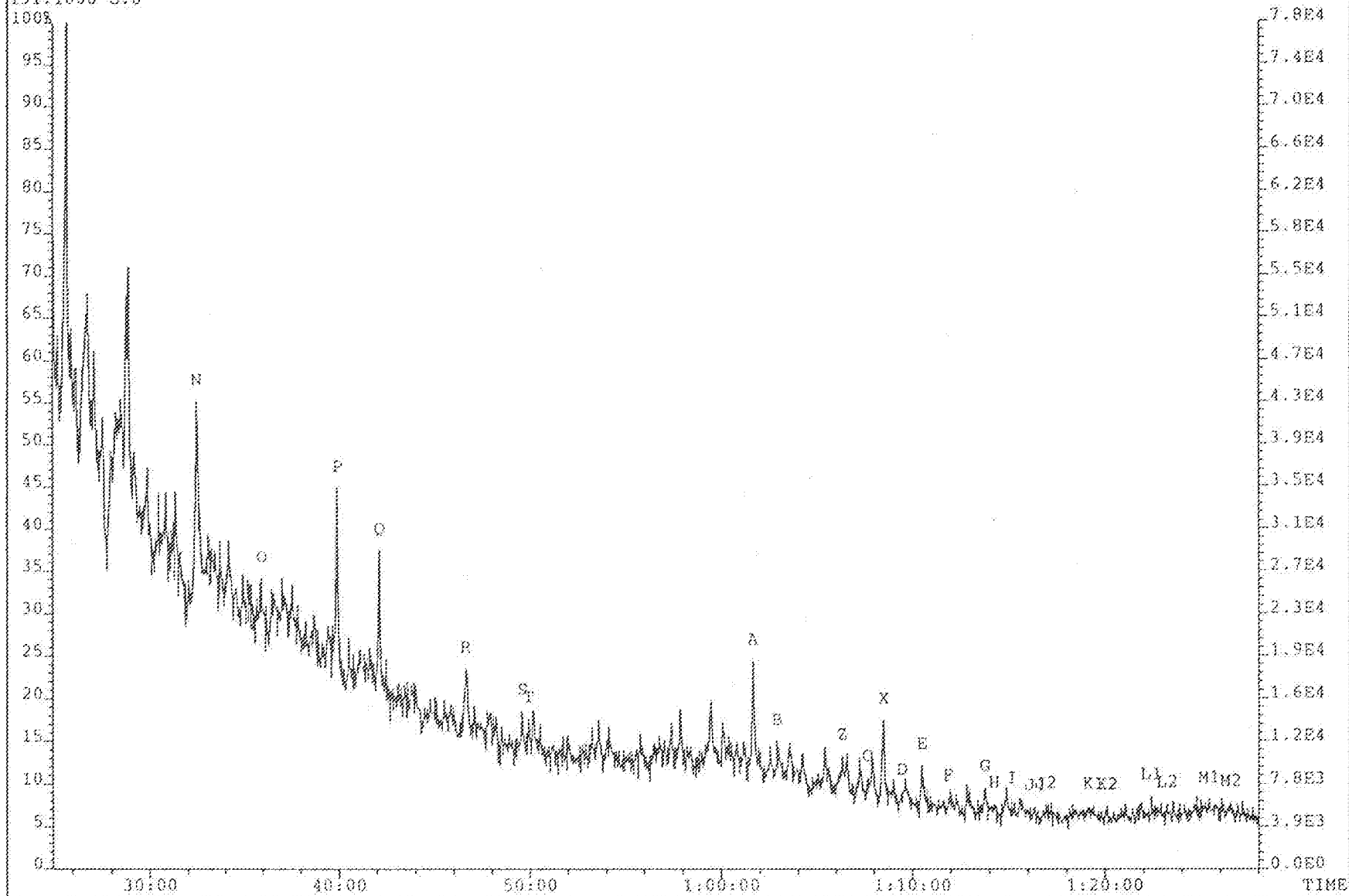


Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4740 Acq:23-SEP-1992/13:30:02 B1+ Magnet SIR
 Sample#8 Text:WELL 34/10-35, DST2, 3984-3995M, SATURATED FRACTION FROM OIL Exp:SAT1
 191.1800 S:8



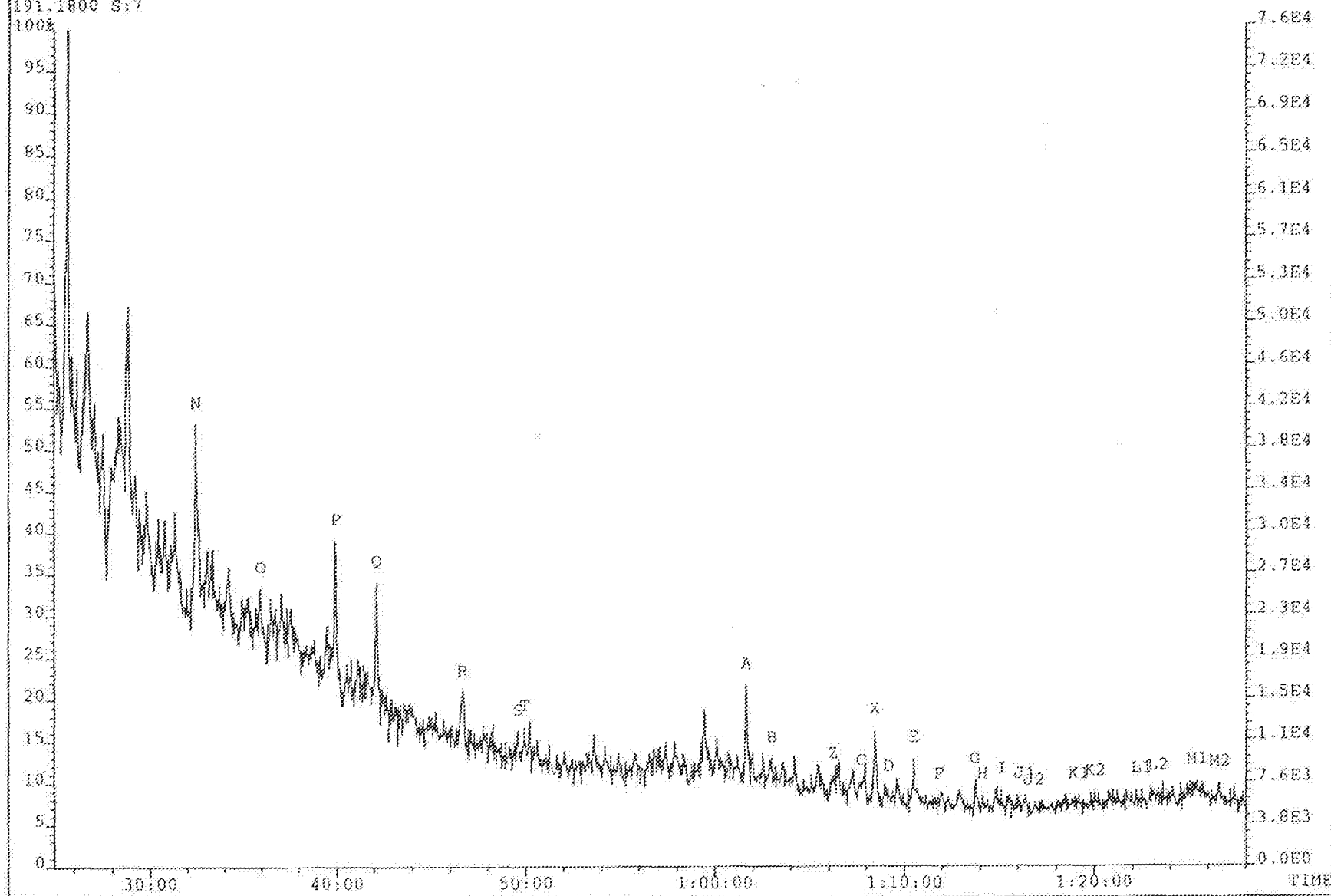
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4740 Acq:23-SEP-1992 13:30:02 ET+ Magnet SH
 Sample#7 Text:WELL 34/10-35, DET1, 4015-25M, SATURATED FRACTION FROM OIL
 191.1800 S:7

Exp:SAT1



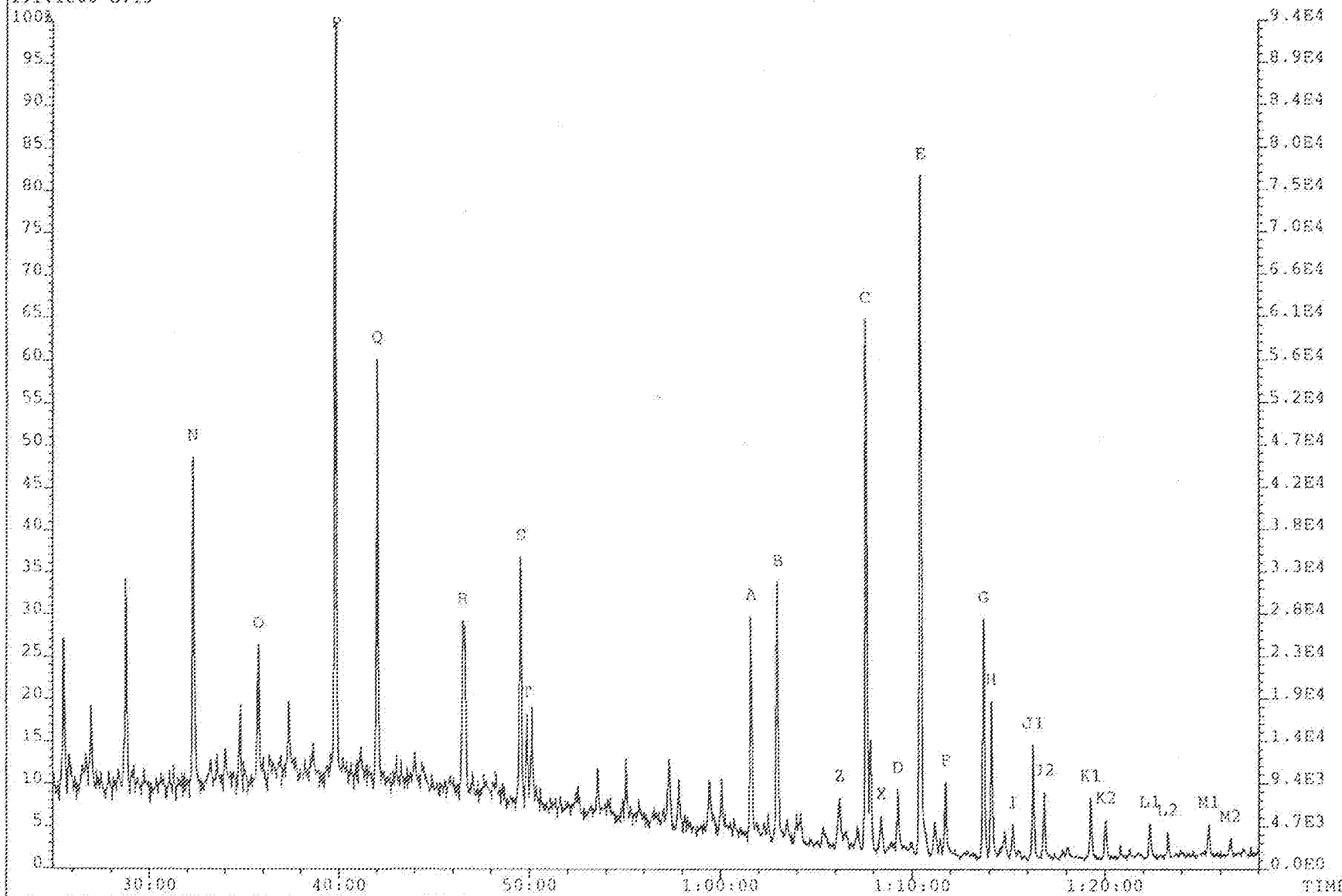
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
 Sample#13 Text:WELL 34/10-35, 4283.48M, SATURATED FRACTION
 191.1800 S:13

Exp:SAT1



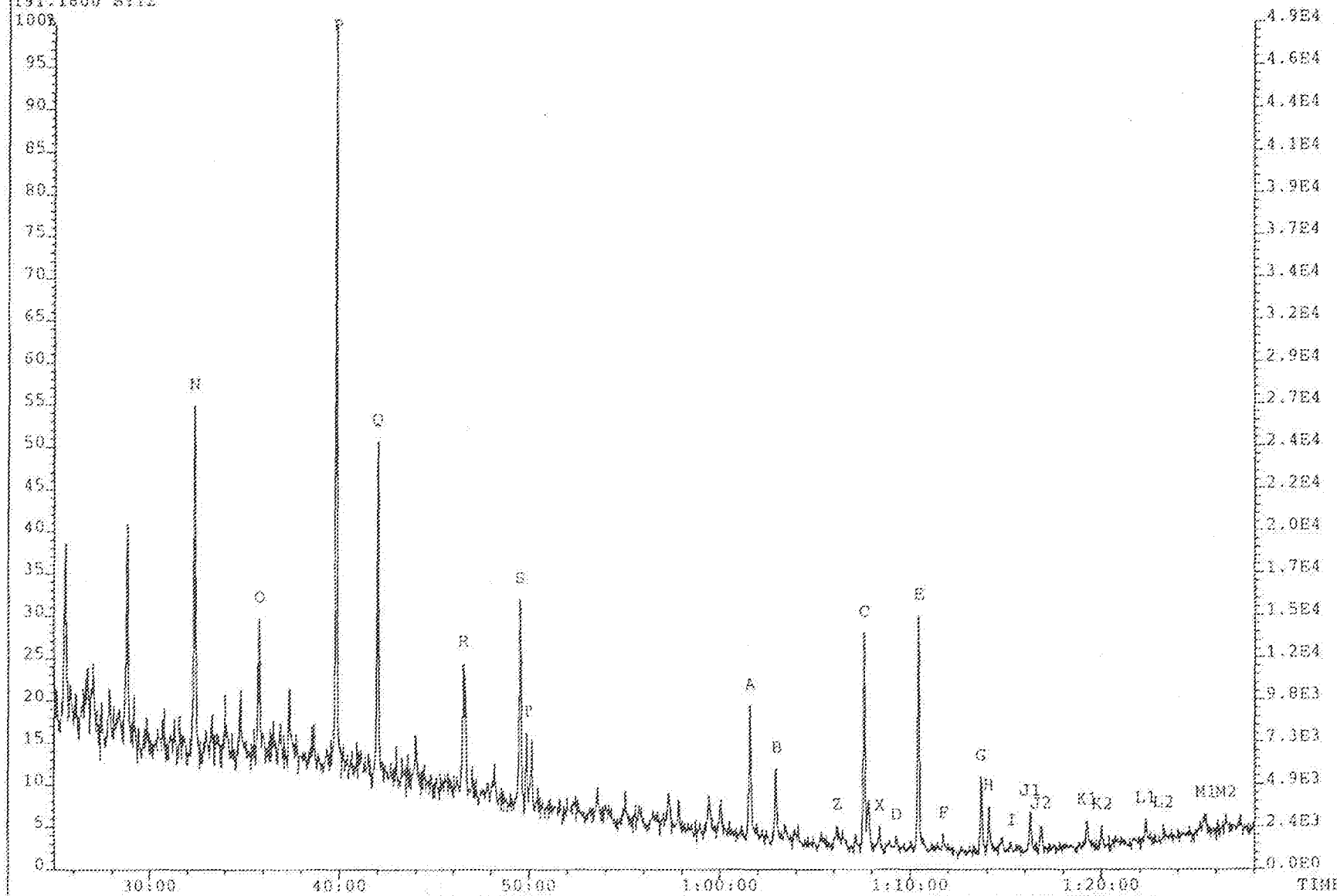
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:22-SEP-1992,14:23:15 EI+ Magnet SIR
 Sample#12 Text:WELL 34/10-35, 4270.75M, SATURATED FRACTION
 191.1800 S:12

Exp:SAT1



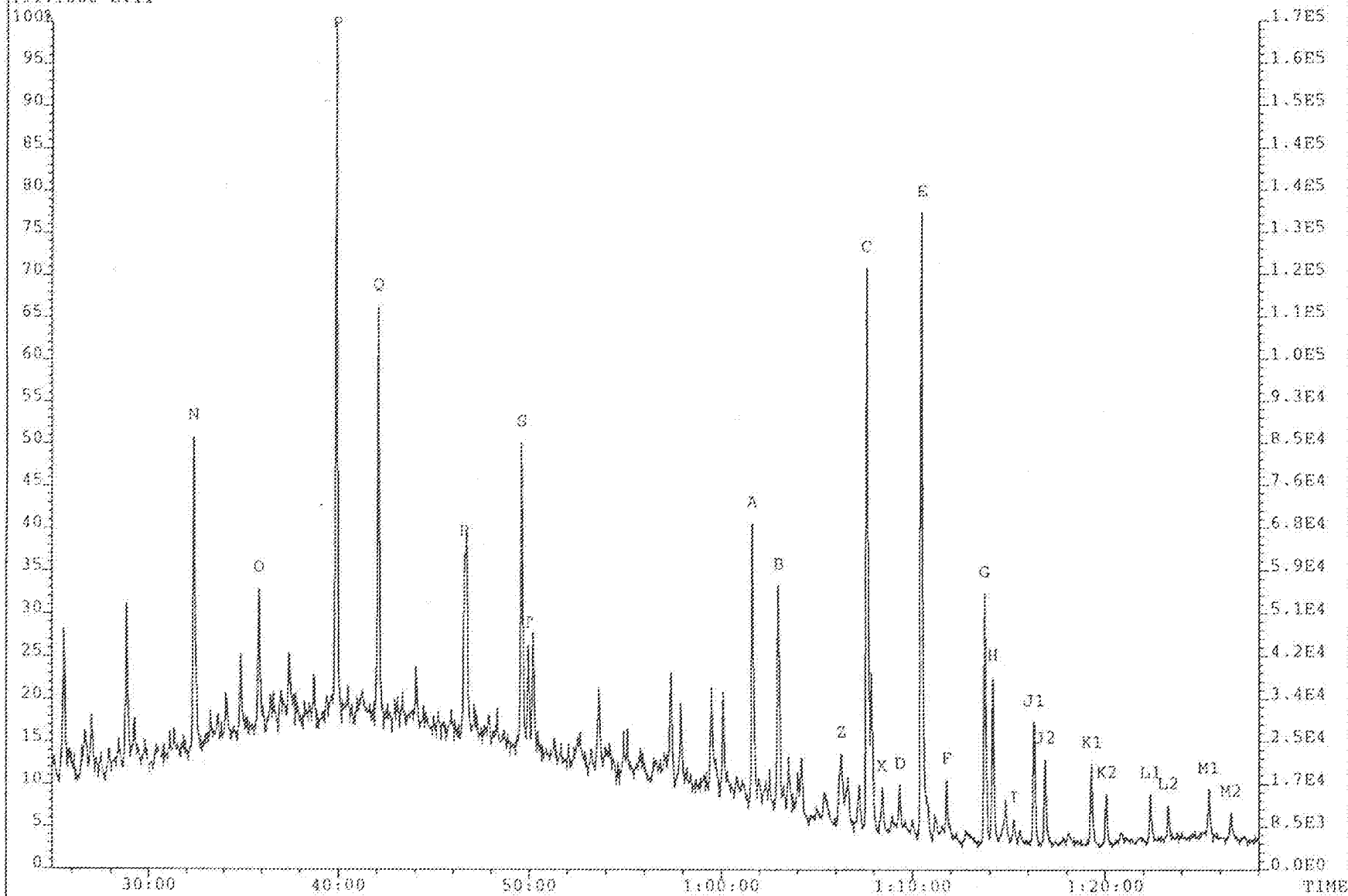
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:22-SEP-1992:14:23:15 EI: Magnet SIR
 Sample#11 Text:WELL 34/10-35, 4257.47M, SATURATED FRACTION
 191.1800 S:11

Exp:SAT1



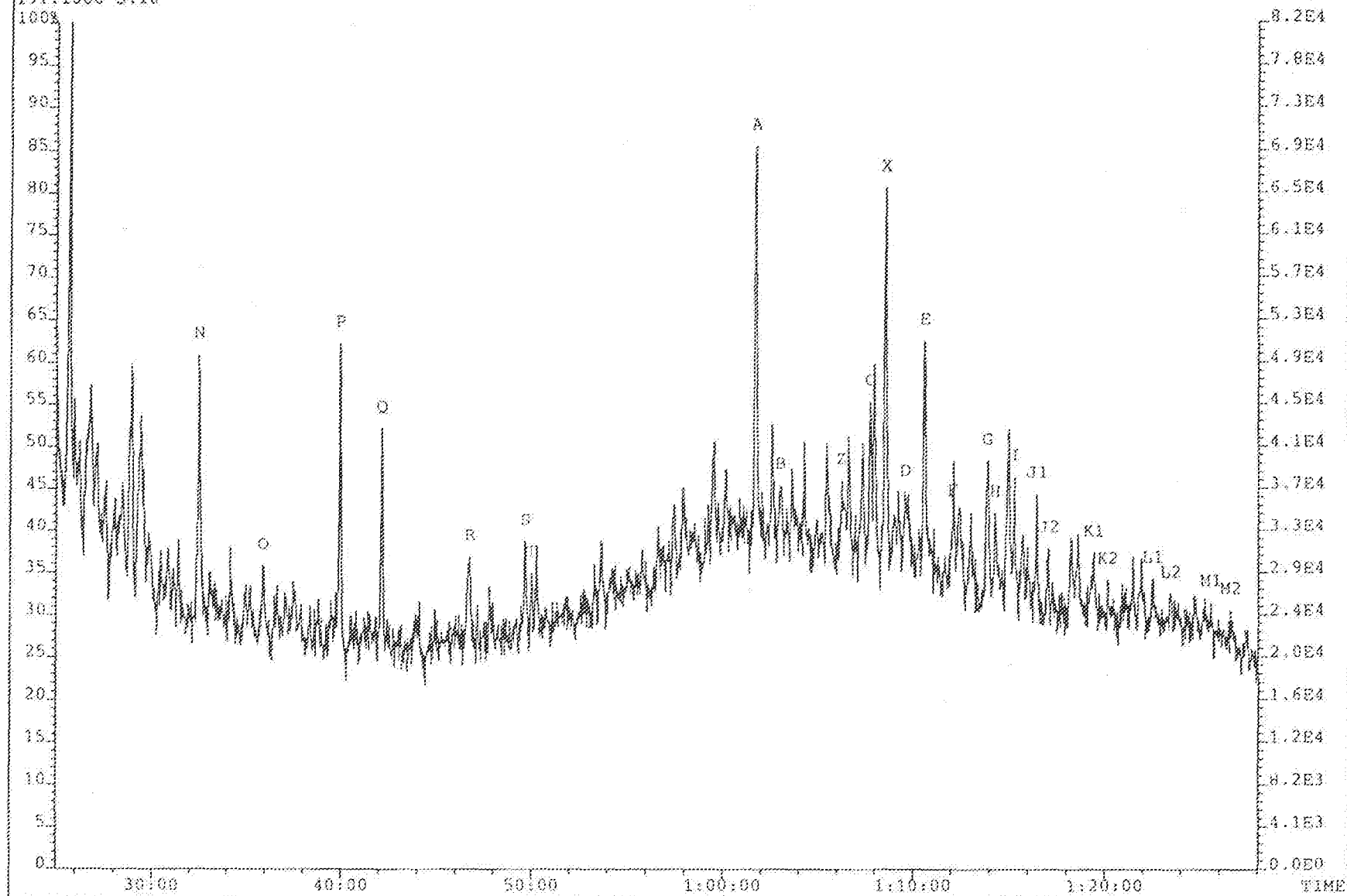
Schlumberger

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GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 El+ Magnet 918
 Sample#10 Text:WELL 34/10-35, 4021.93M, SATURATED FRACTION
 191.1800 9:10

Exp:SAT1



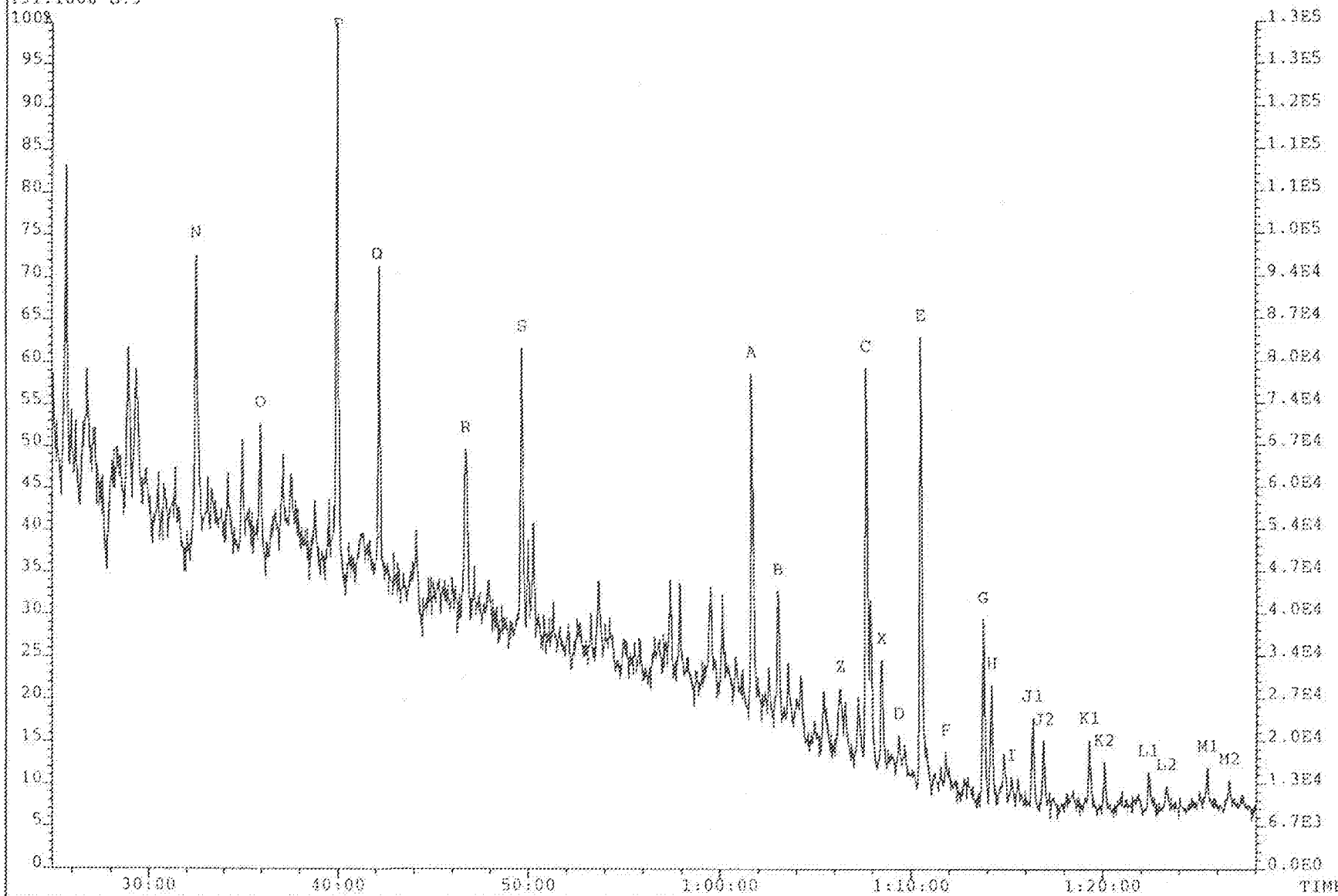
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT2 #1-4739 Acq: 22-SEP-1992, 14:31:15 E1+ Magnet SIR
 Sample#9 Text: WELL 34/10-35, 4006.17M, SATURATED FRACTION
 191.1800 S:9

Exp: SAT1



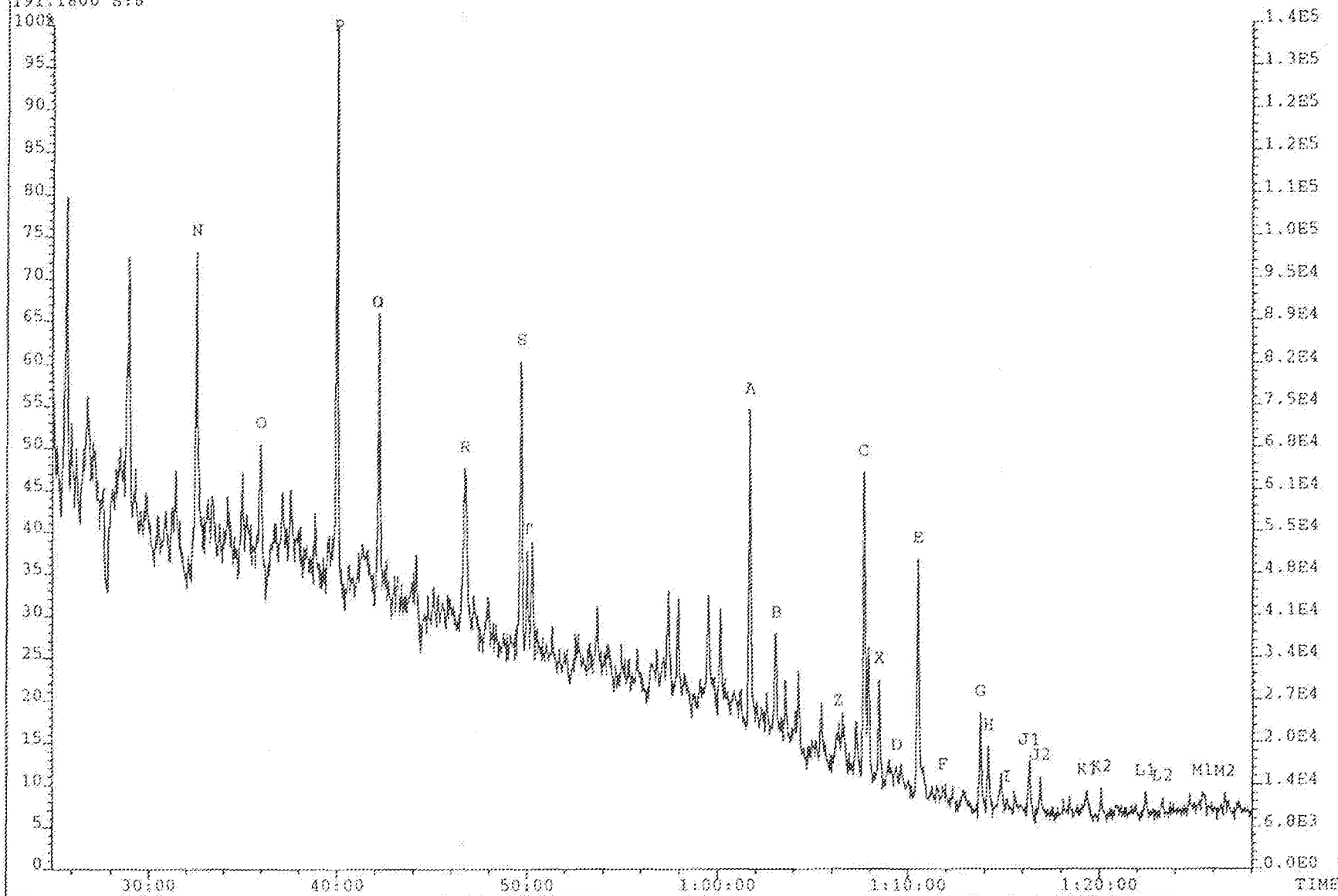
Schlumberger

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GEOLAB NOR

File:STATSAT7 #1-4739 Acq:23-SEP-1992,14:23:15 EI+ Magnet SIR
 Sample#8 Text:WELL: 34/10-35, 3994.05M, SATURATED FRACTION
 191.1800 S:8

Exp:SAT1



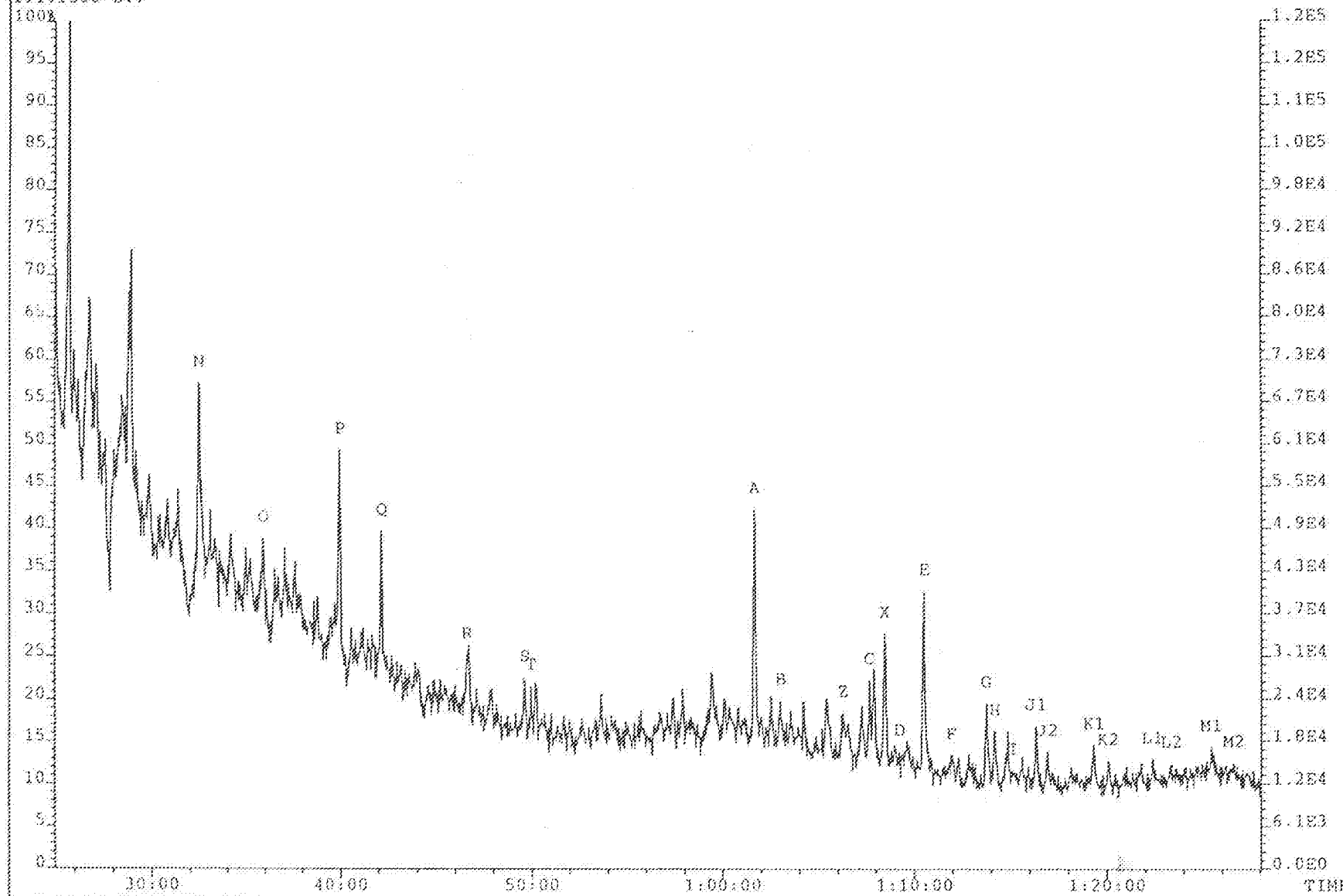
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992,14:23:15 EI+ Magnet SIR
 Sample#7 Text:WELL 34/10-35, 3933.16M, SATURATED FRACTION
 191.1800 S:7

Exp:SAT1



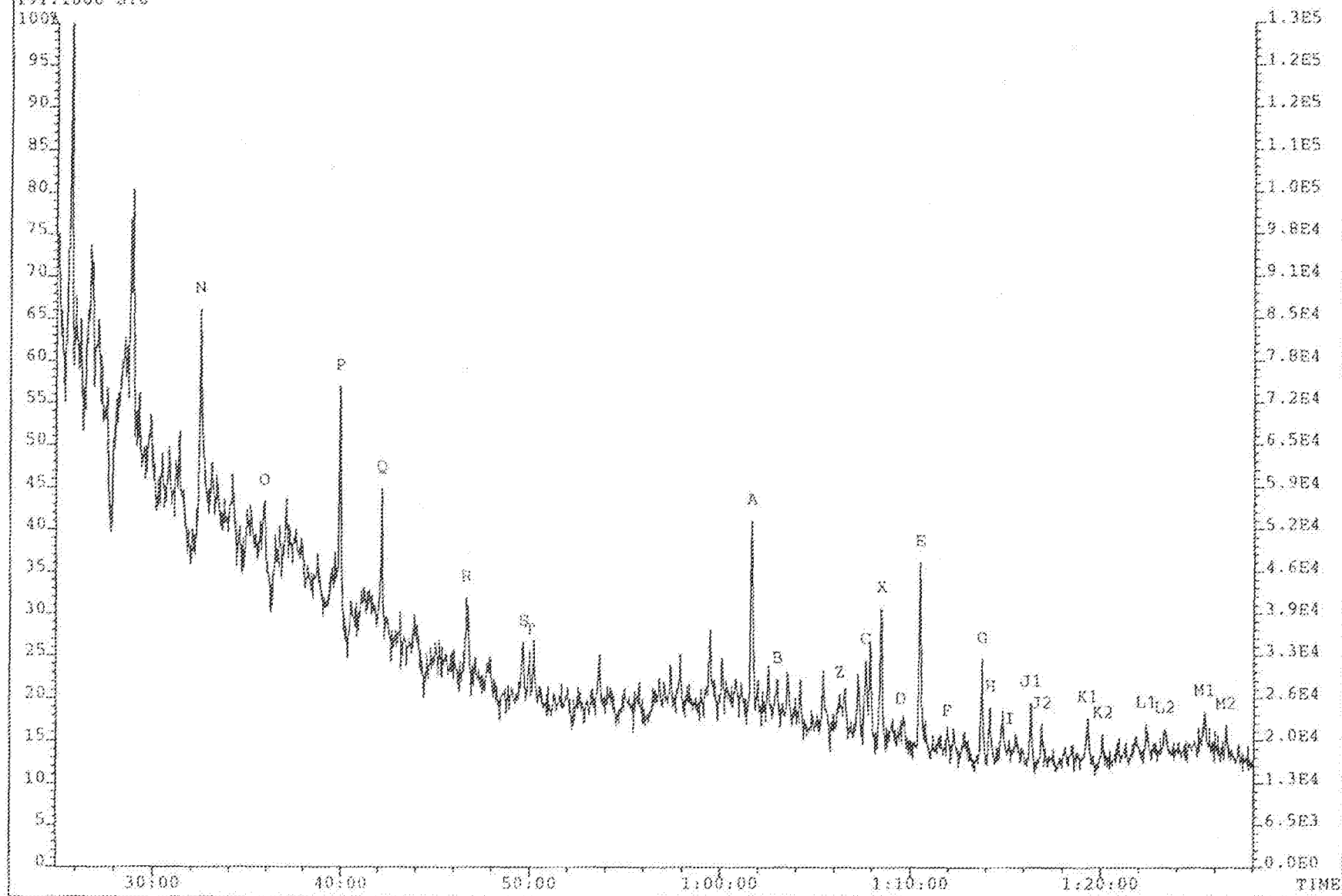
Schlumberger

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GEOLAB NOR

File:STATSAT2 W1-4739 Acq:22-SEP-1992,14:33:15 ST: Magnet SIR
 Sample#6 Text:WELL 14/10-35, 3931.71M, SATURATED FRACTION
 191.1600 S:6

Exp:SAT1



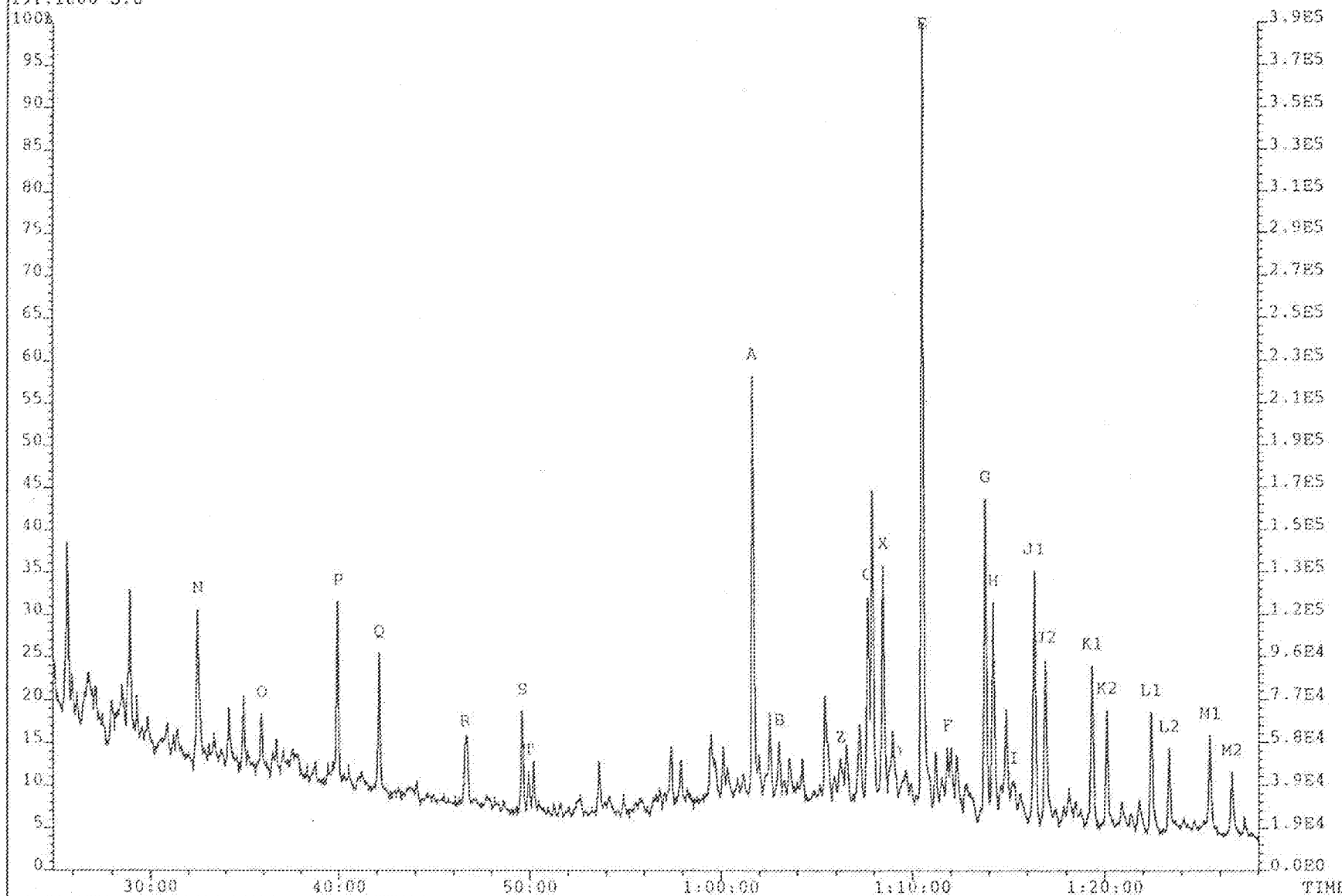
Schlumberger

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GEOLAB NOR

File:STATSAT3 #1-4740 Acq:23-SEP-1992 13:30:02 EI+ Magnet SIR
 Sample#6 Text:WELL 34/10-35, 3894M, SATURATED FRACTION
 191.1800 S:6

Exp:SAT1



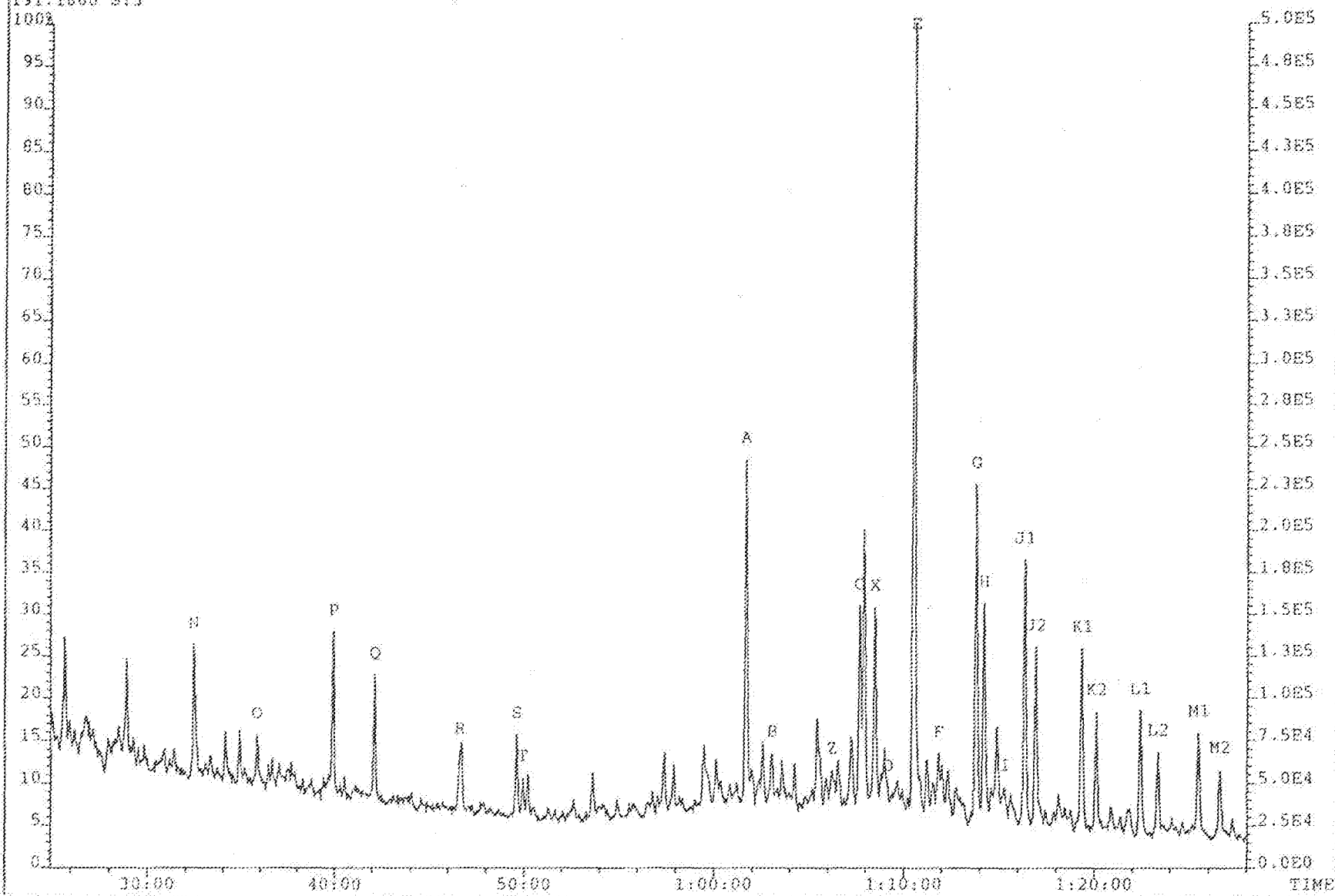
Schlumberger

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GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992/13:30:02 E1+ Magnet SW
 Sample#5 Text:WELL 34/10-35, 3865M, SATURATED FRACTION
 191.1800 S:5

Exp:SAT1



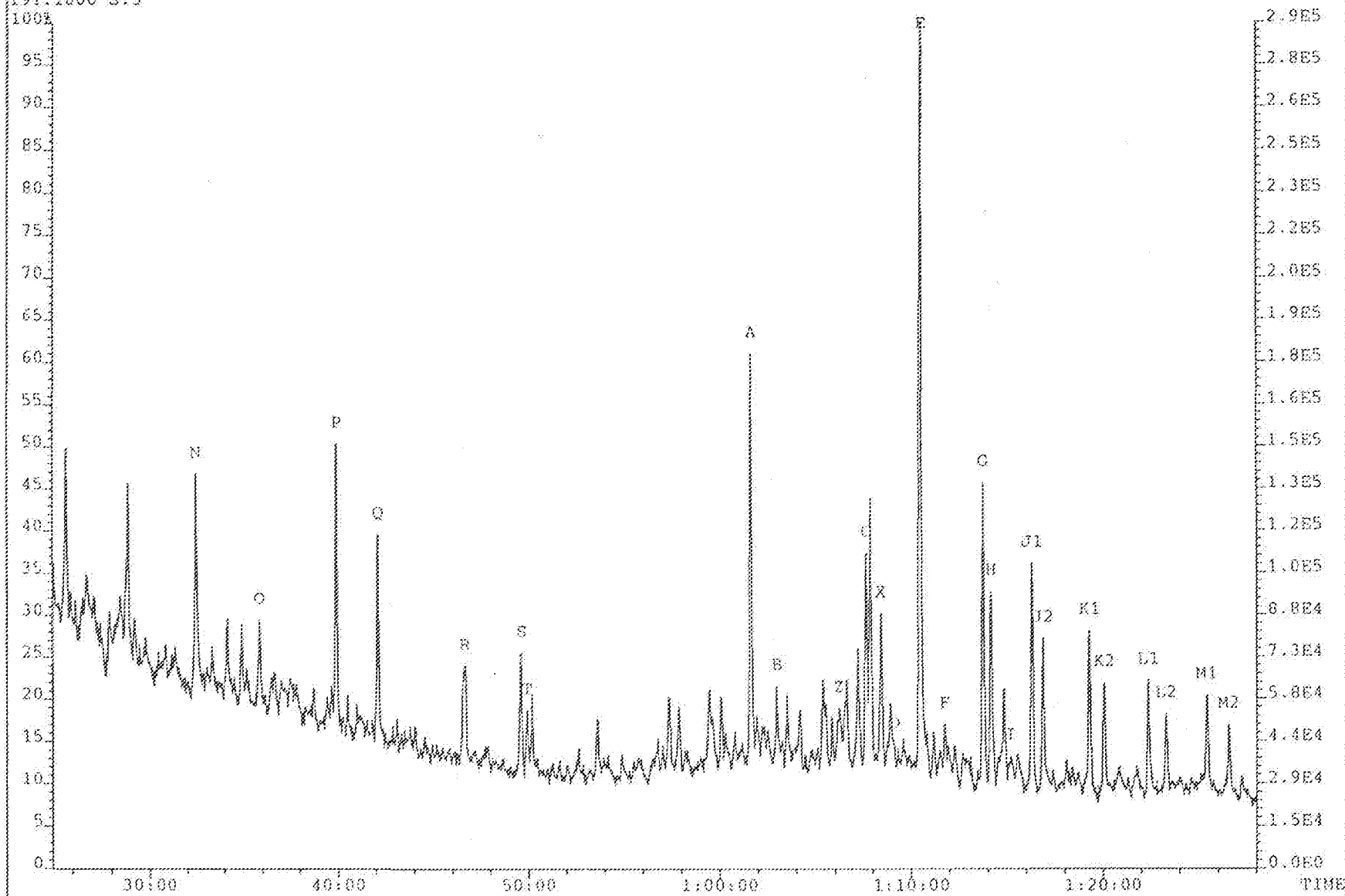
Schlumberger

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GEOLAB NOR

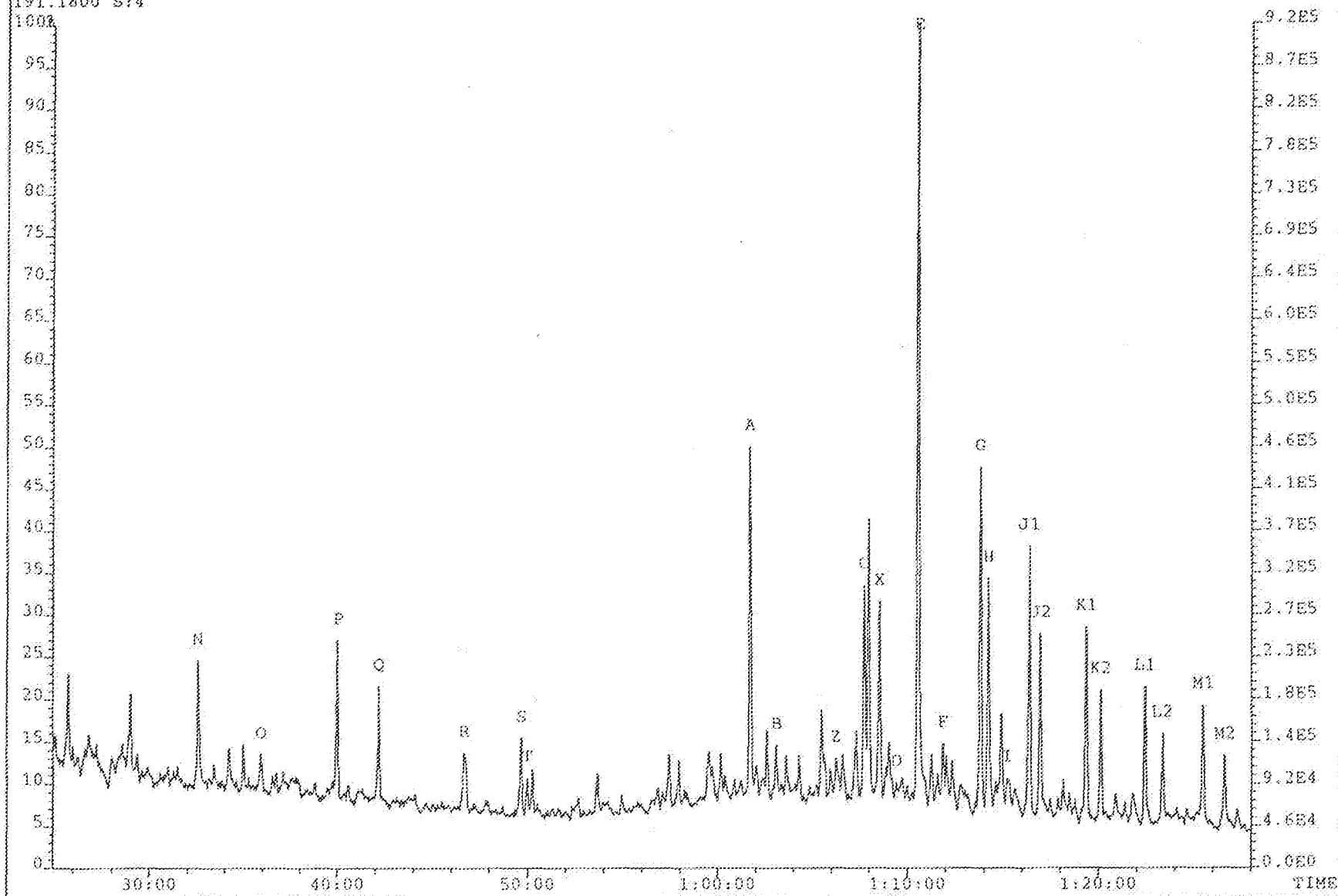
File: STASAT2 #1-4740 Acq: 22-SEP-1992 14:11:15 E1+ Magnet SIR
Sample#5 Text: WELL 34/10-35, 3852M, SATURATED FRACTION
191.1800 S:5

Exp: SAT1



File: STATSAT1 #1-4740 Acq: 22-SEP-1992 14:23:15 BI: Magnet SIR
 Sample#4 Text: WELL 34/10-35, 3831M, SATURATED FRACTION
 191.1800 S:4

Exp: SAT1



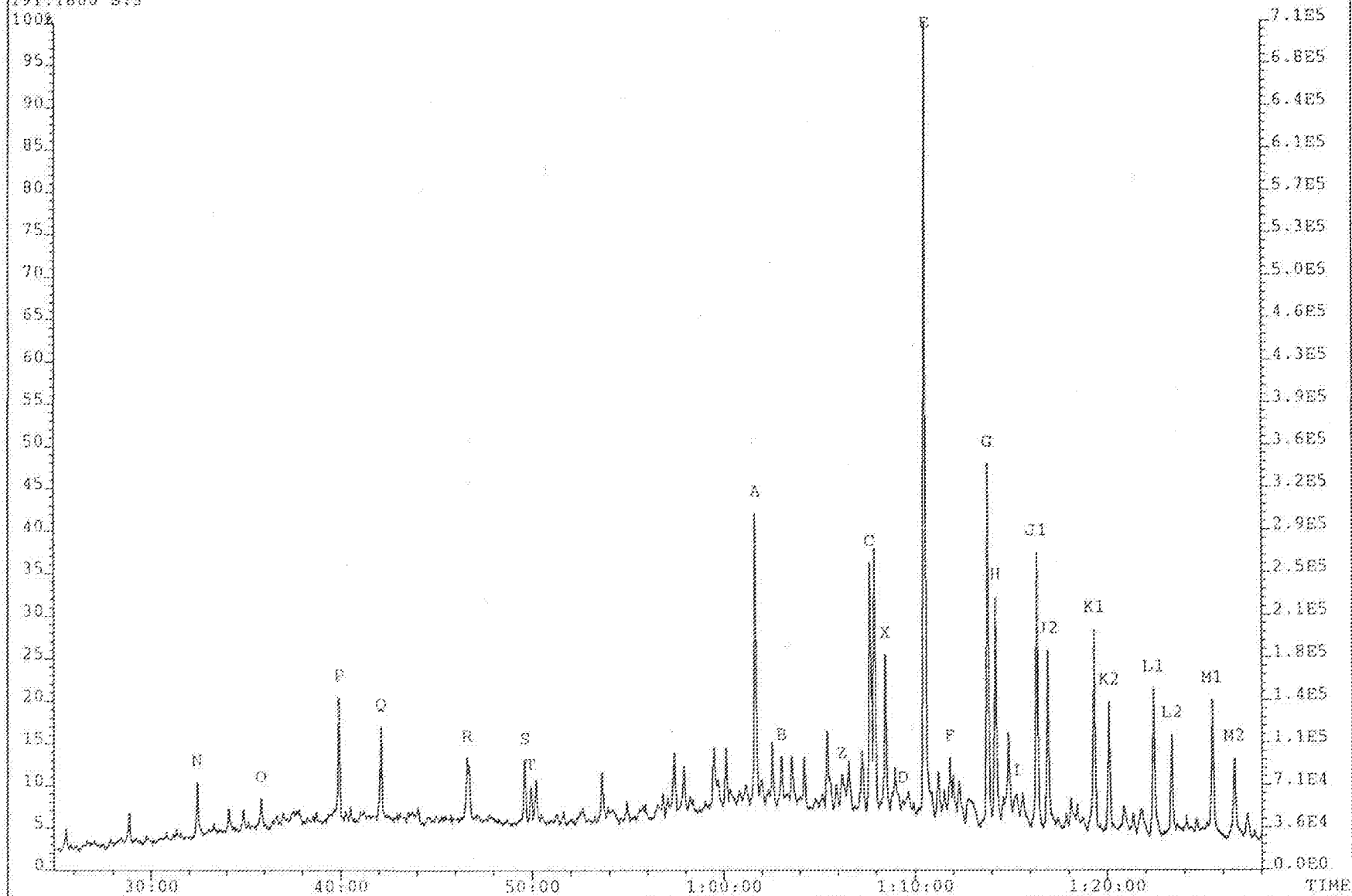
Schlumberger

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GEOLAB  NOR

File: STATSAT2 #1-4719 Acq: 22-SEP-1992 14:23:15 El: Magnet SIR
 Sample#3 Text: WELL 34/10-35, 3530M, SATURATED FRACTION
 191.1800 8:3

Exp: SAT1

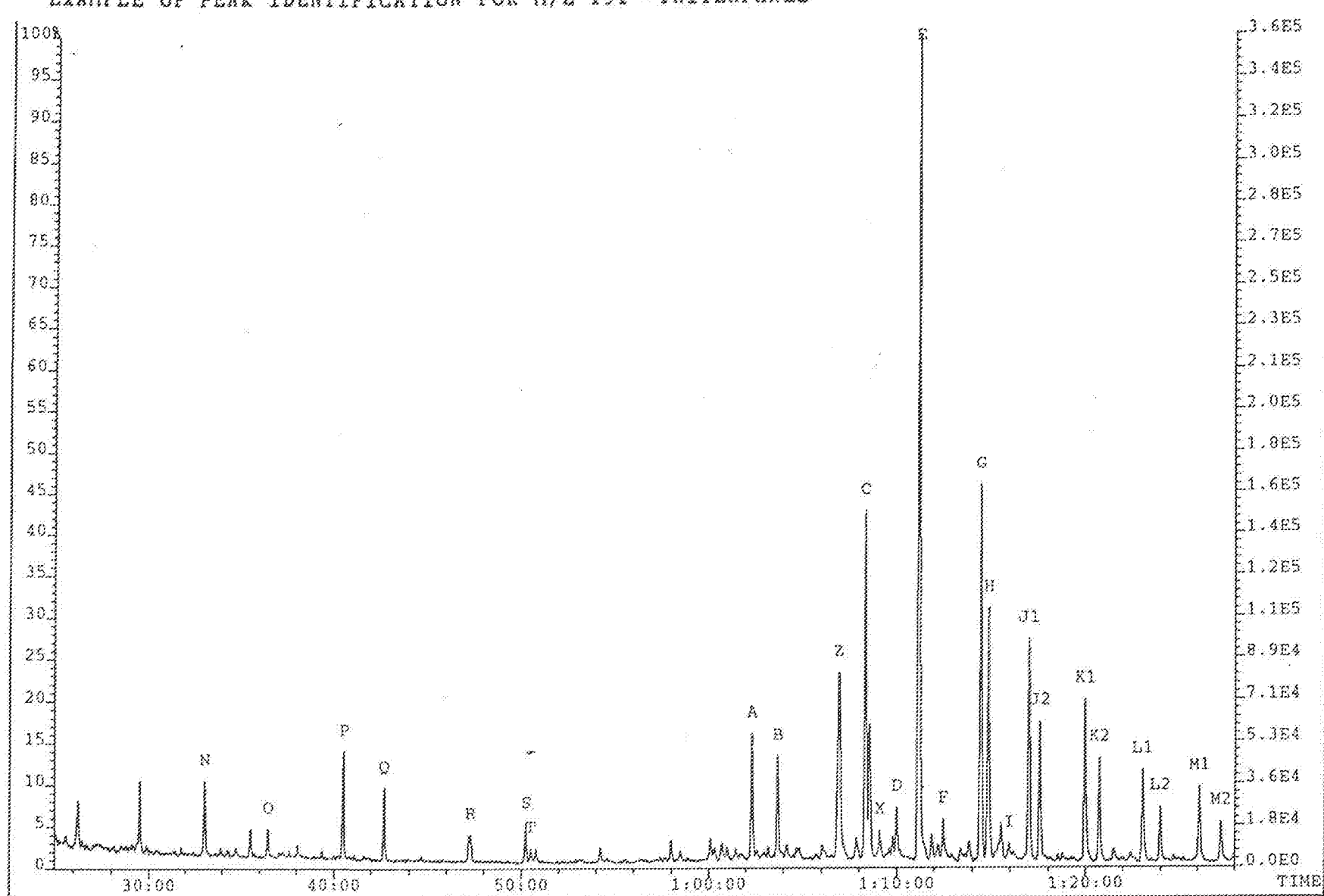


Schlumberger

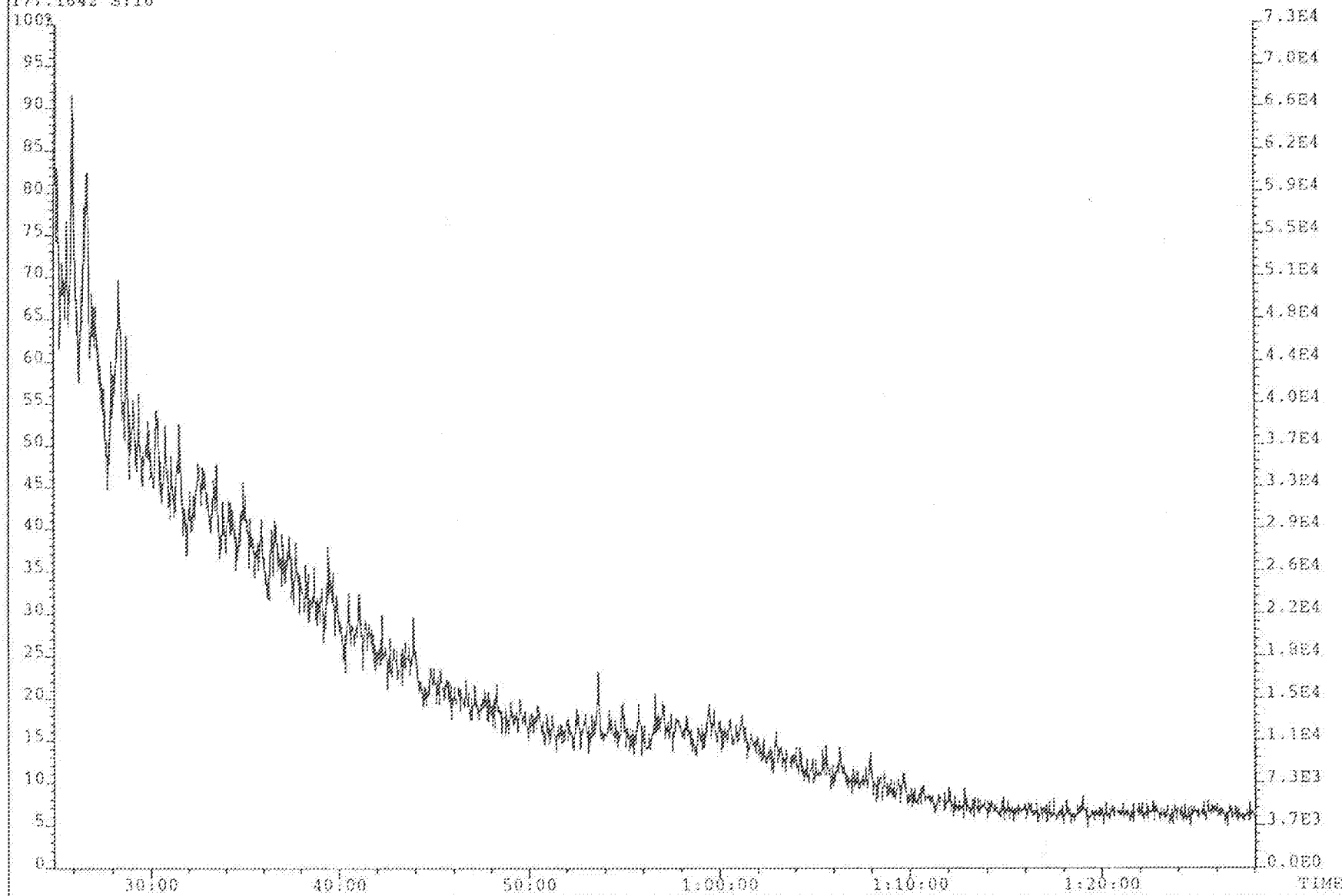
GECO-PRAKLA

GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 191 - TRITERPANES



File:STATSAT1 #1-4739 Acq:23-SEP-1992 13:30:02 SI+ Magnet SIR
Sample#10 Text:WELL: 34/10-35, OLJE OVER MUD, 3496-3504M, SAT. FRAC. FROM OIL Exp:SAT1
177.1642 S:10



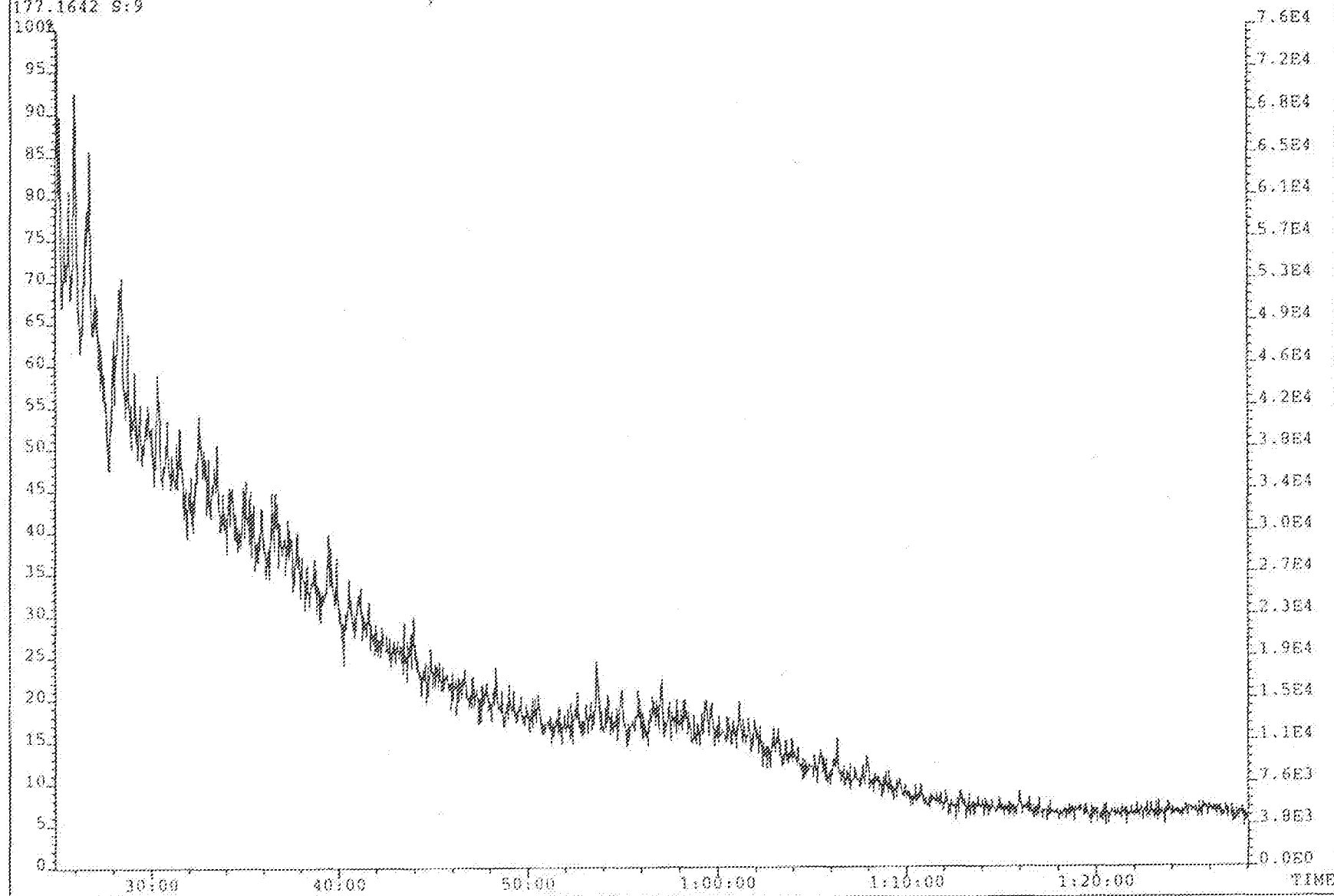
Schlumberger

GECO-PRAKLA

GEOLAB NOR

F1 STATSATI #1-4740 Acq:23-SEP-1992 13:30: ST: Magnet SIR
 Sample#9 Text:WELL 34/10-35, DST3, 3920-29M, SATURATED FRACTION FROM OIL
 177.1642 S:9

Exp:SAT

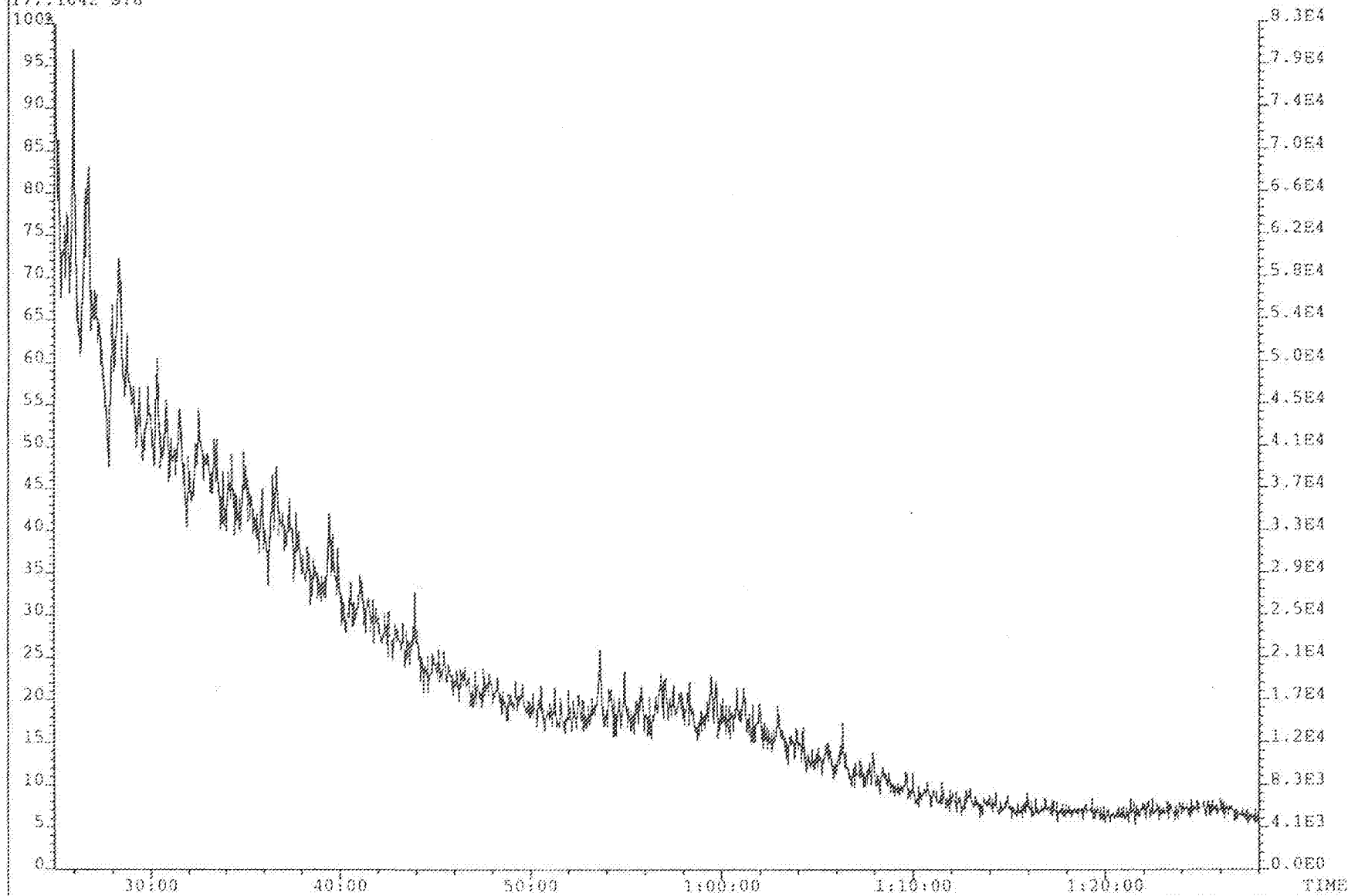


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GEOLAB NOR

File: STATSAT1 W1-4740 Acq: 23-SEP-1992, 13:30:02 EI+ Magnet SIR
Sample#8 Text: WELL 34/10-35, DST2, 3984-3995M, SATURATED FRACTION FROM OIL Exp: SAT1
177.1642 S:8

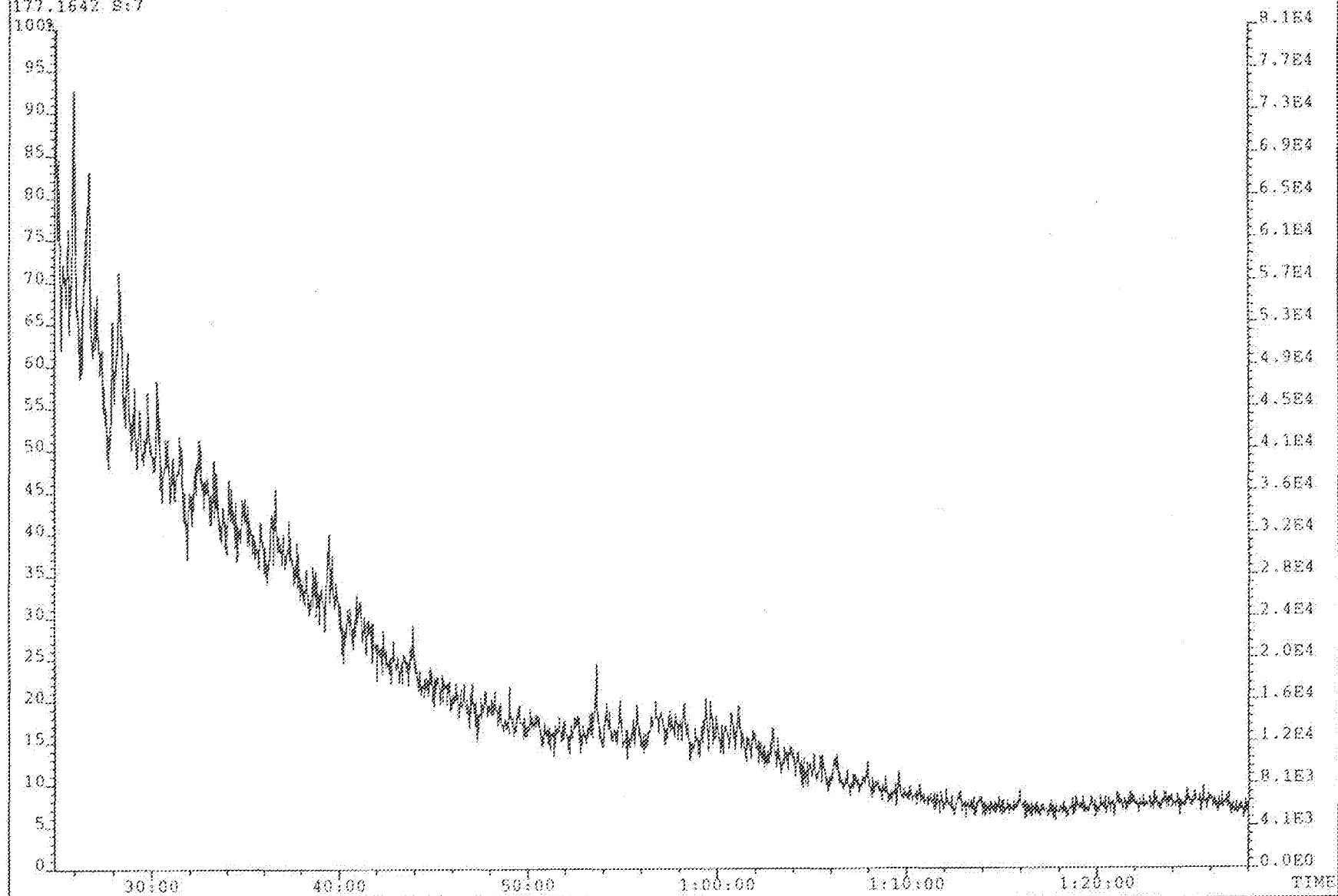


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GEOLAB NOR

File: STATCAT1 W1-4740 Acq: 23-SEP-1992 13:30:02 EI: Magnet 91R
Sample#7 Text: WELL 34/10-35, DST1, 4015-25M, SATURATED FRACTION FROM OIL Exp: SAT1
177.1642 S:7



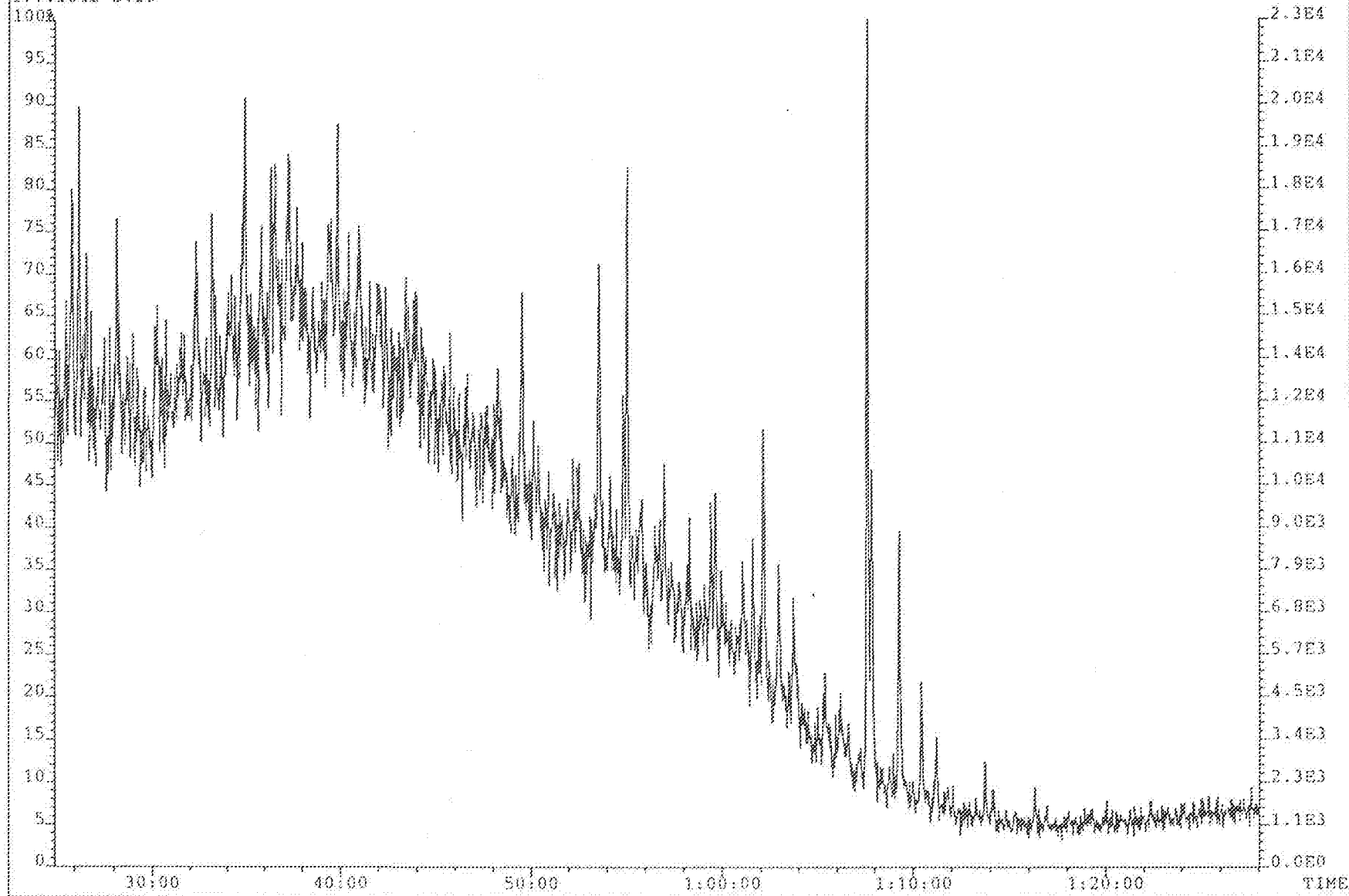
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992/14:23:15 El: Magnet SIR
Sample#13 Text:WELL 34/10-35, 4293.48M, SATURATED FRACTION
177.1642 S:13

Exp:SAT1



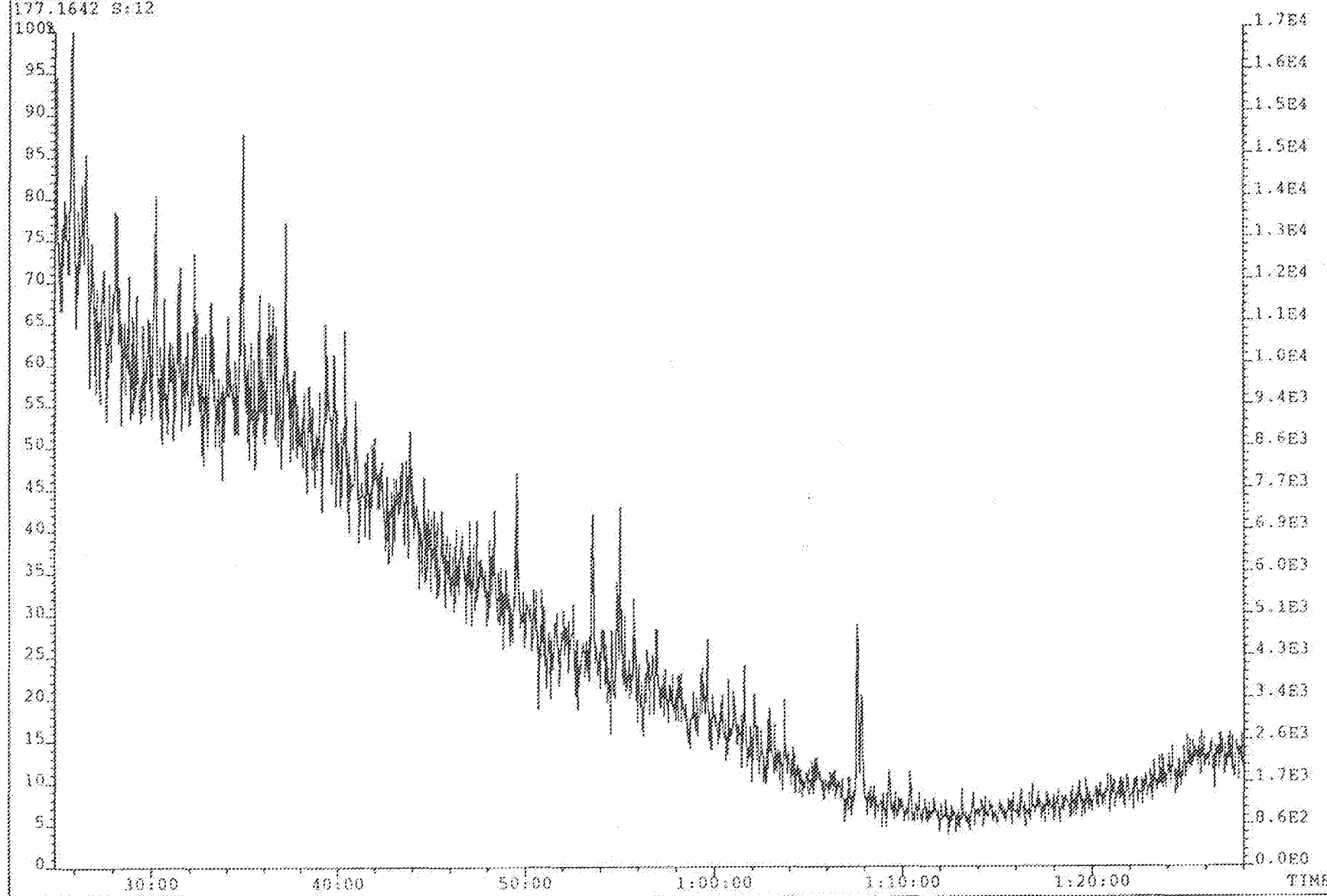
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STATSAT2 W1-4741 Acq:22-SEP-1992 14:21:15 EI+ Magnet SIR
Sample#12 Text:WELL 34/10-35, 4270.75M, SATURATED FRACTION
177.1642 S:12

Exp:SAT1



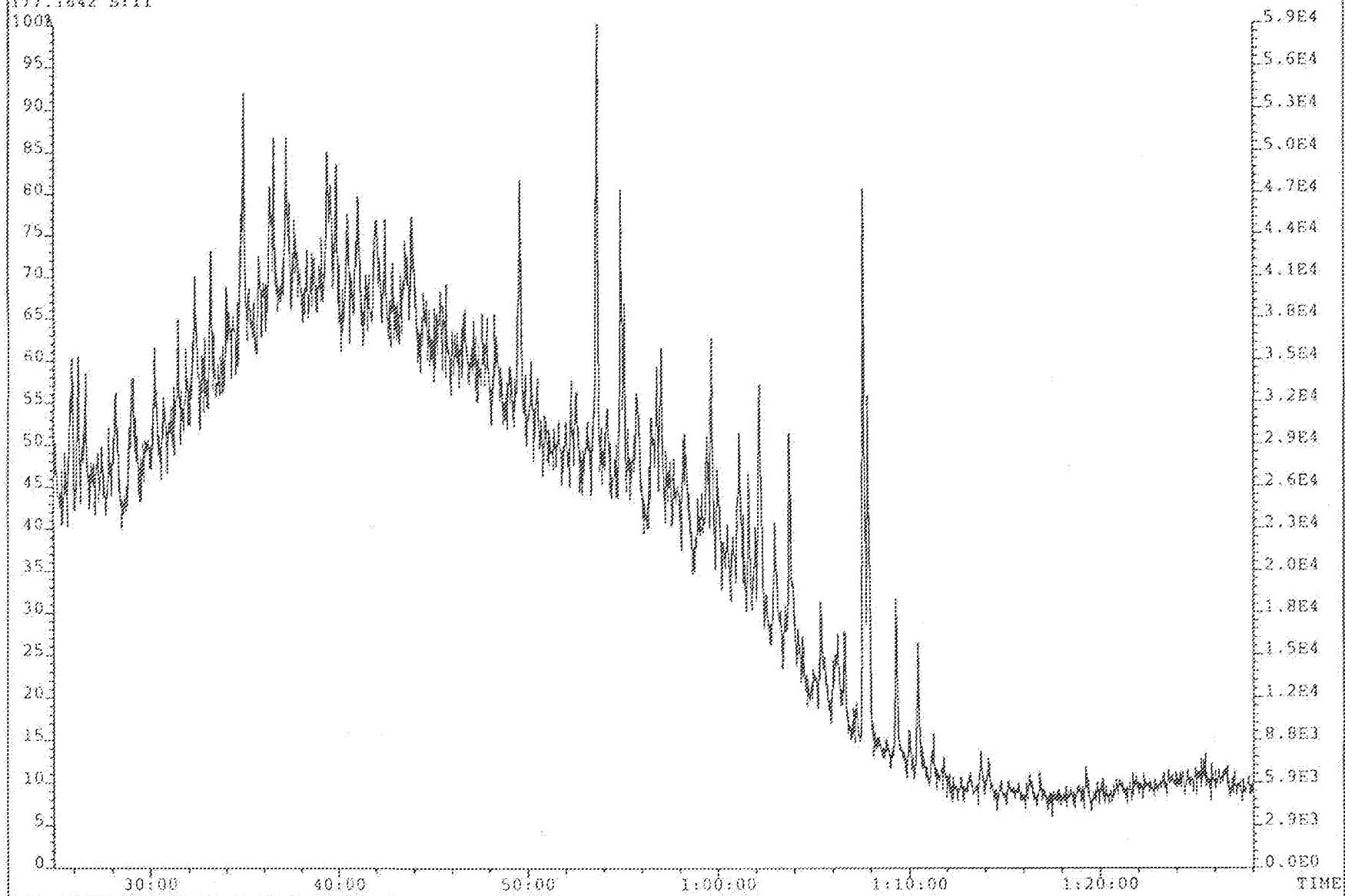
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4741 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#11 Text:WELL 34/10-35, 4257.47M, SATURATED FRACTION
177.1642 S:11

Exp:SAT1



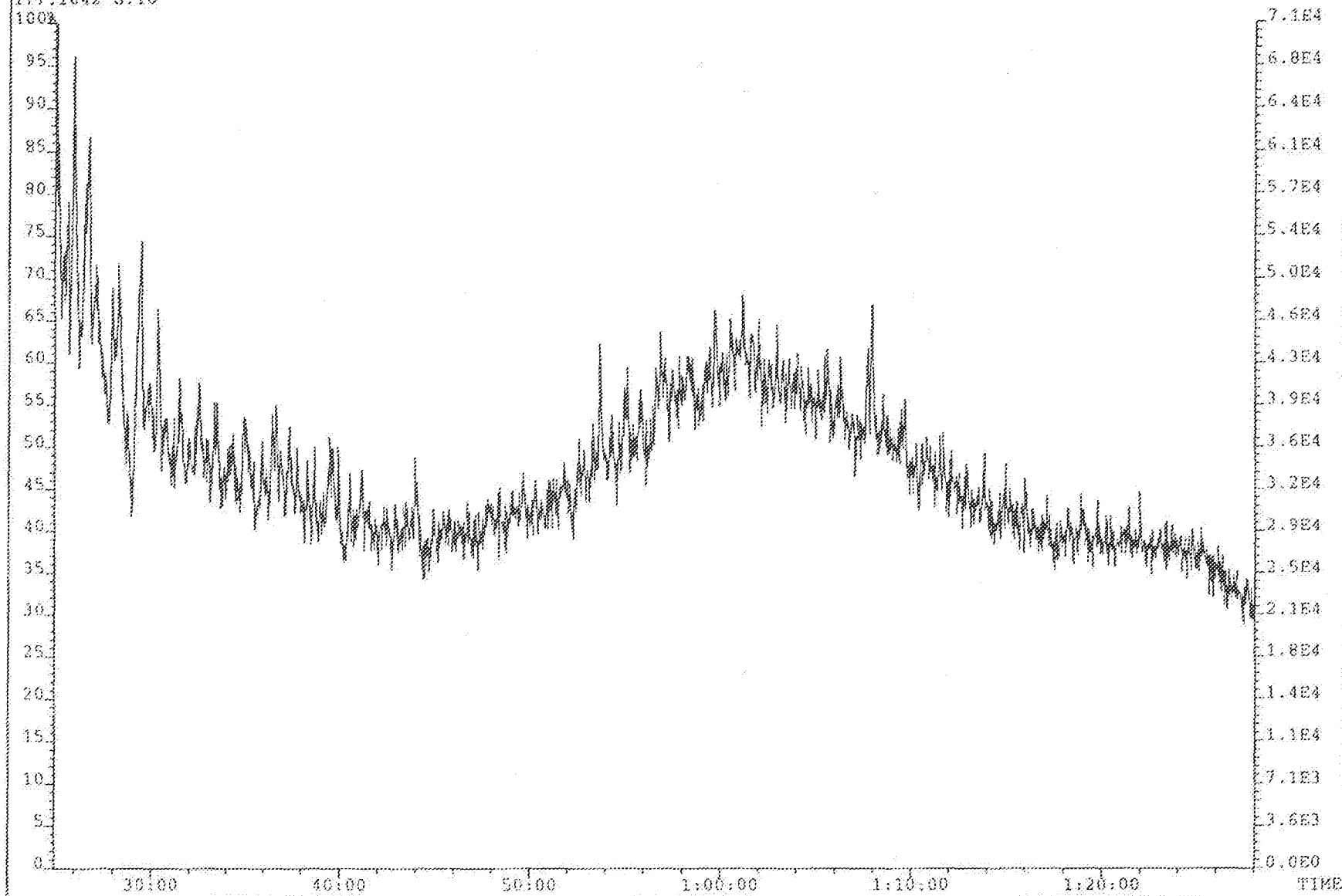
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: SPATSAT2 #1-4719 Acq: 22-SEP-1992 13:23:15 SI+ Magnet SIR
Sample#10 Text: WELL 34/10-35, 4021.93M, SATURATED FRACTION
177.1642 S:10

Exp: SAT1



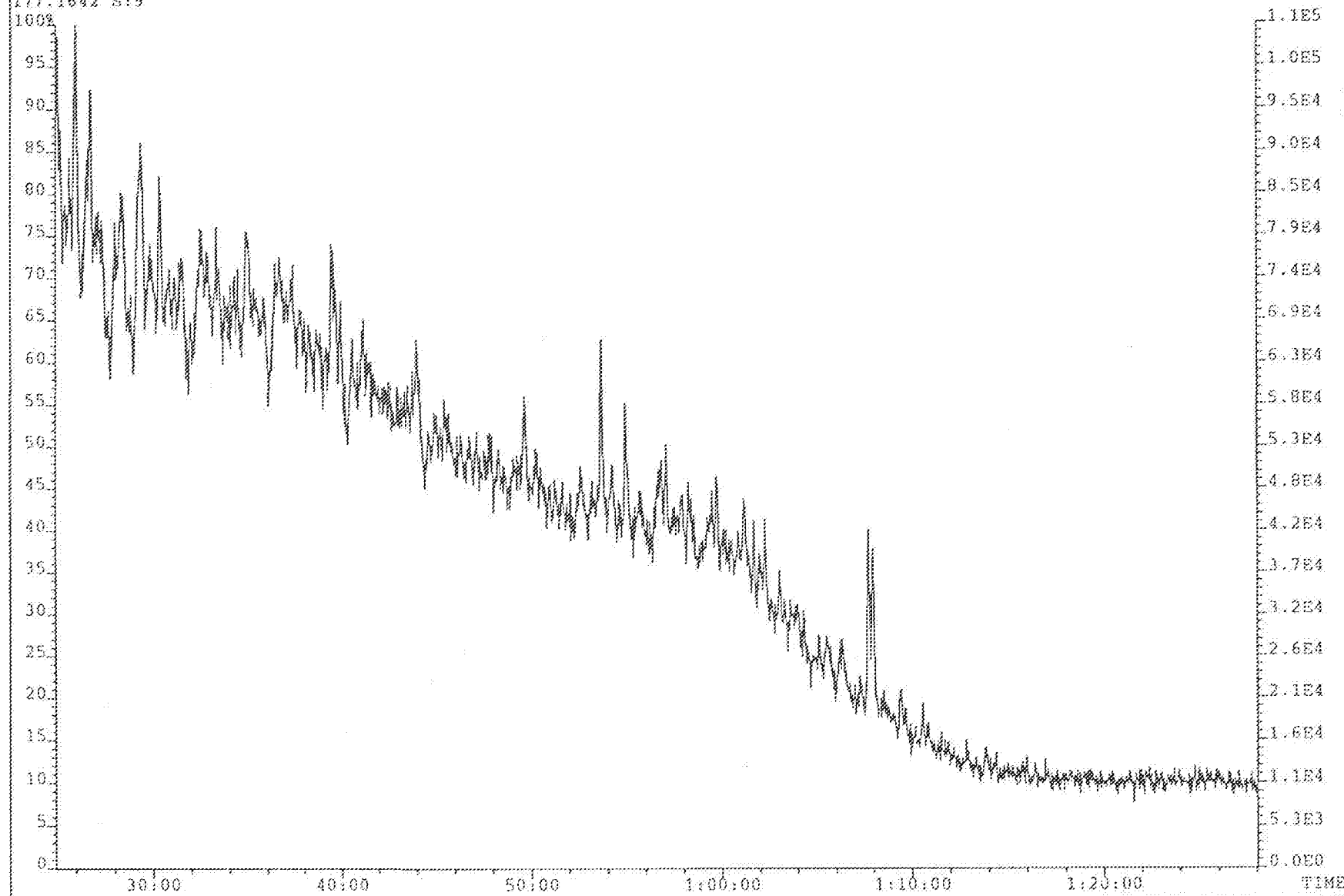
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:22-SEP-1992 14:23:15 ET* Magnet SIR
Sample#9 Text:WELL 34/10-35, 4006.17M, SATURATED FRACTION
177.1642 S:9

Exp:SAT1



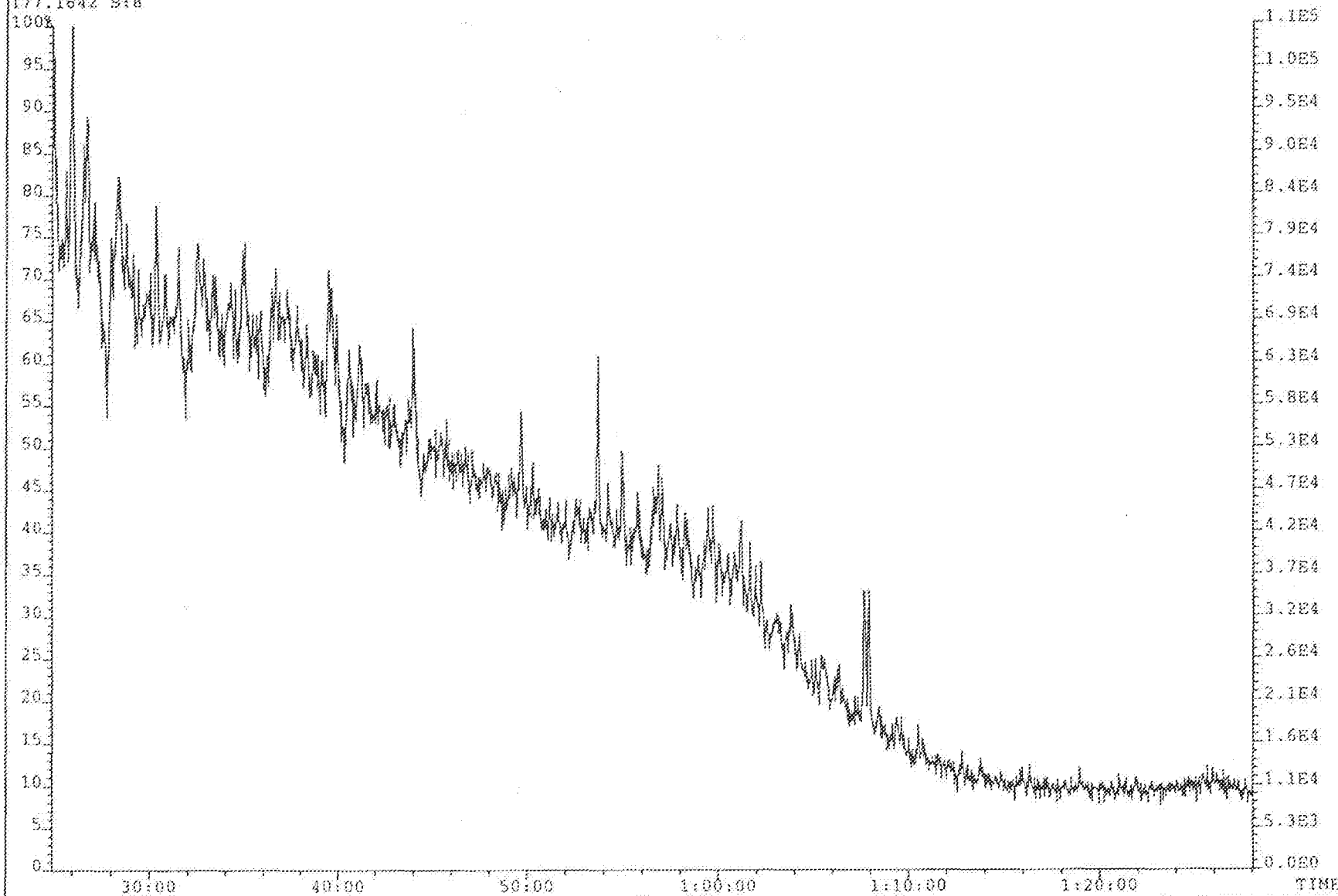
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STASAT2 #1-4739 Acq: 22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#8 Text: WELL 34/10-35, 3994.05M, SATURATED FRACTION
177.1642 S:8

Exp: SAT1



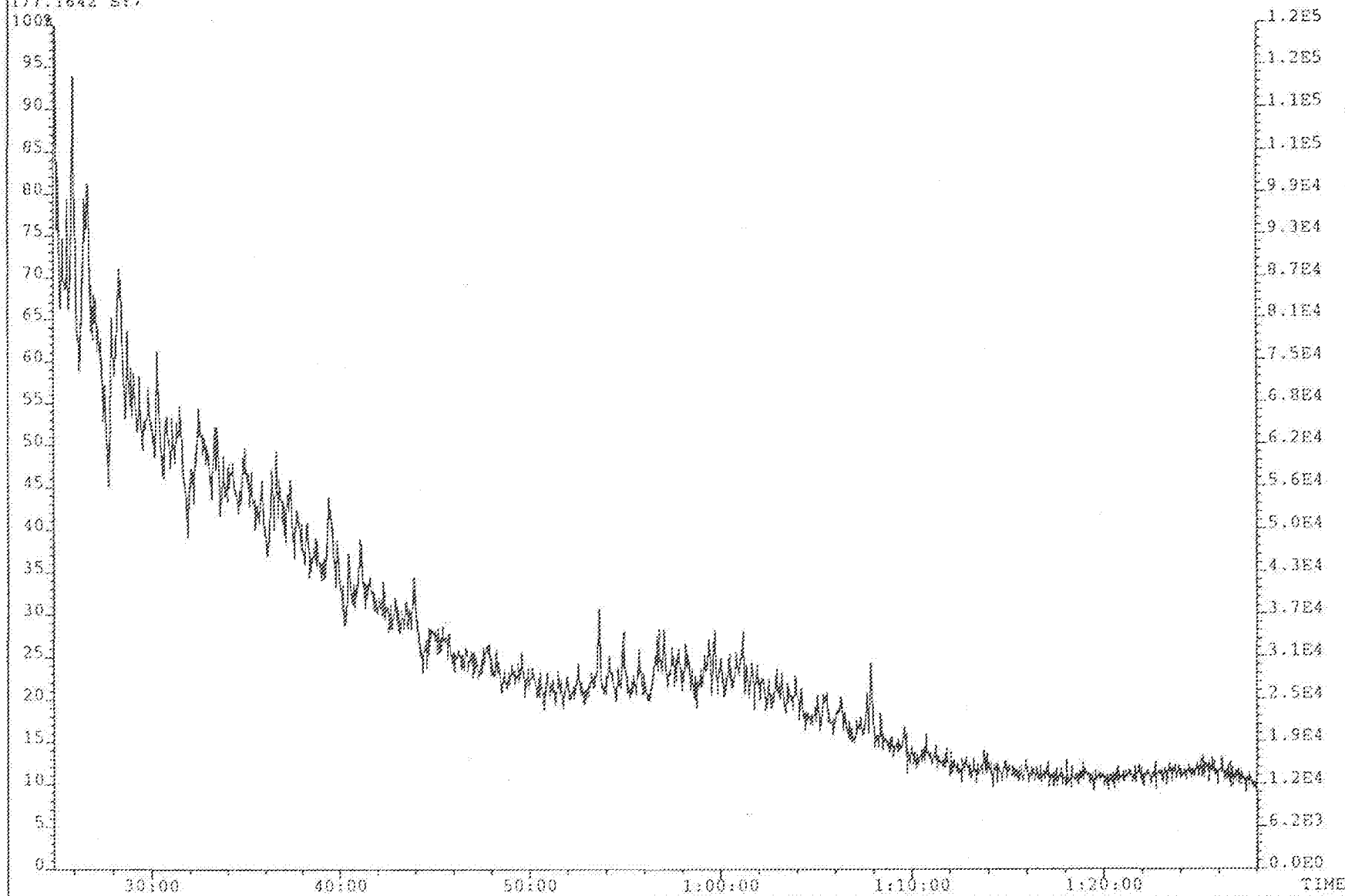
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 W1-4739 Acq:22-SEP-1992 04:21:15 EI+ Magnet SIR
Sample#7 Text:WELL 34/10-35, 3933.16M, SATURATED FRACTION
177.1642 S:7

Exp:SAT1



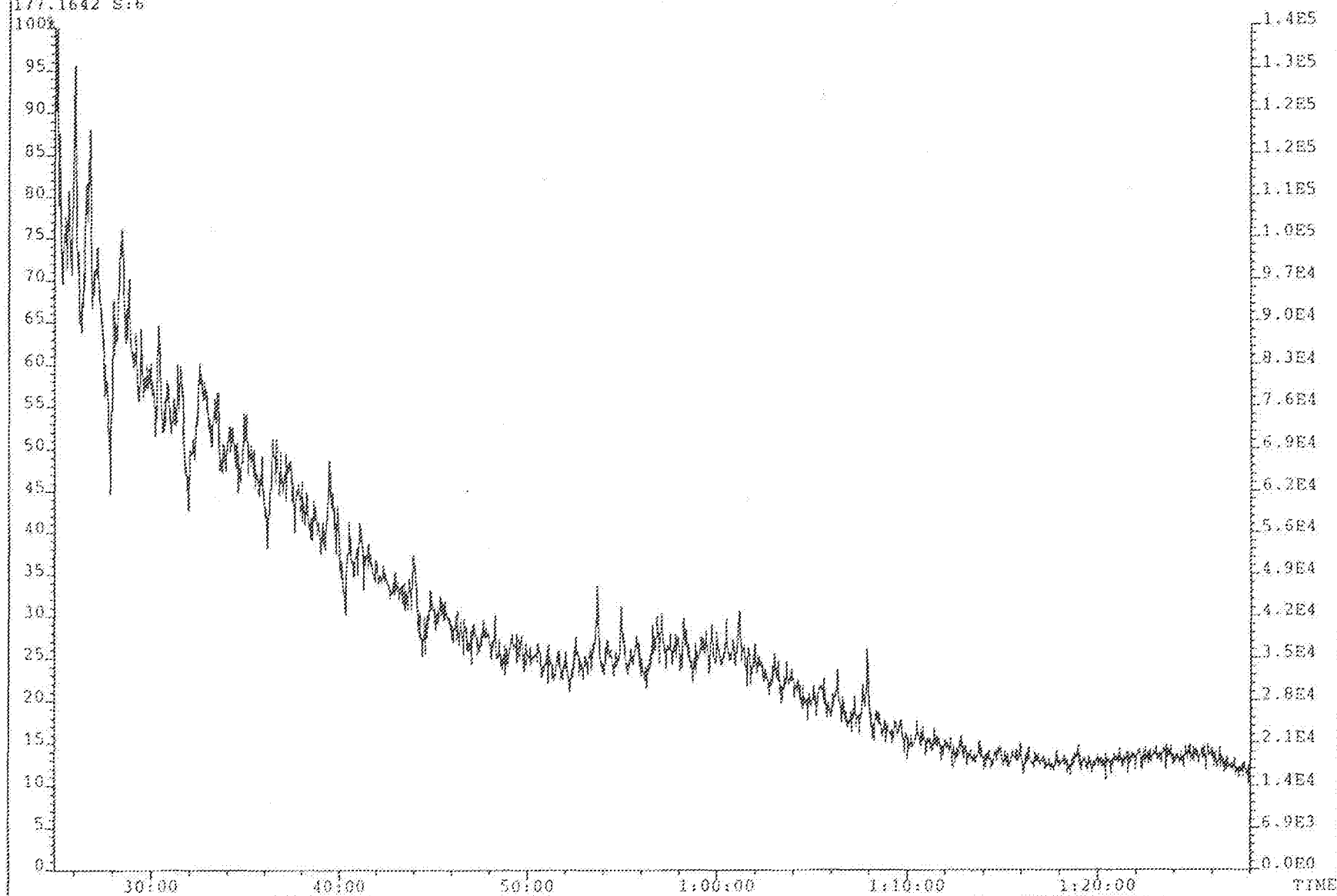
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-1739 Acq:22-SEP-1992 14:23:15 EI: Magnet SIR
Sample#6 Text:WELL 34/10-35, 3931.71M, SATURATED FRACTION
177.1642 S:6

Exp:SAT1



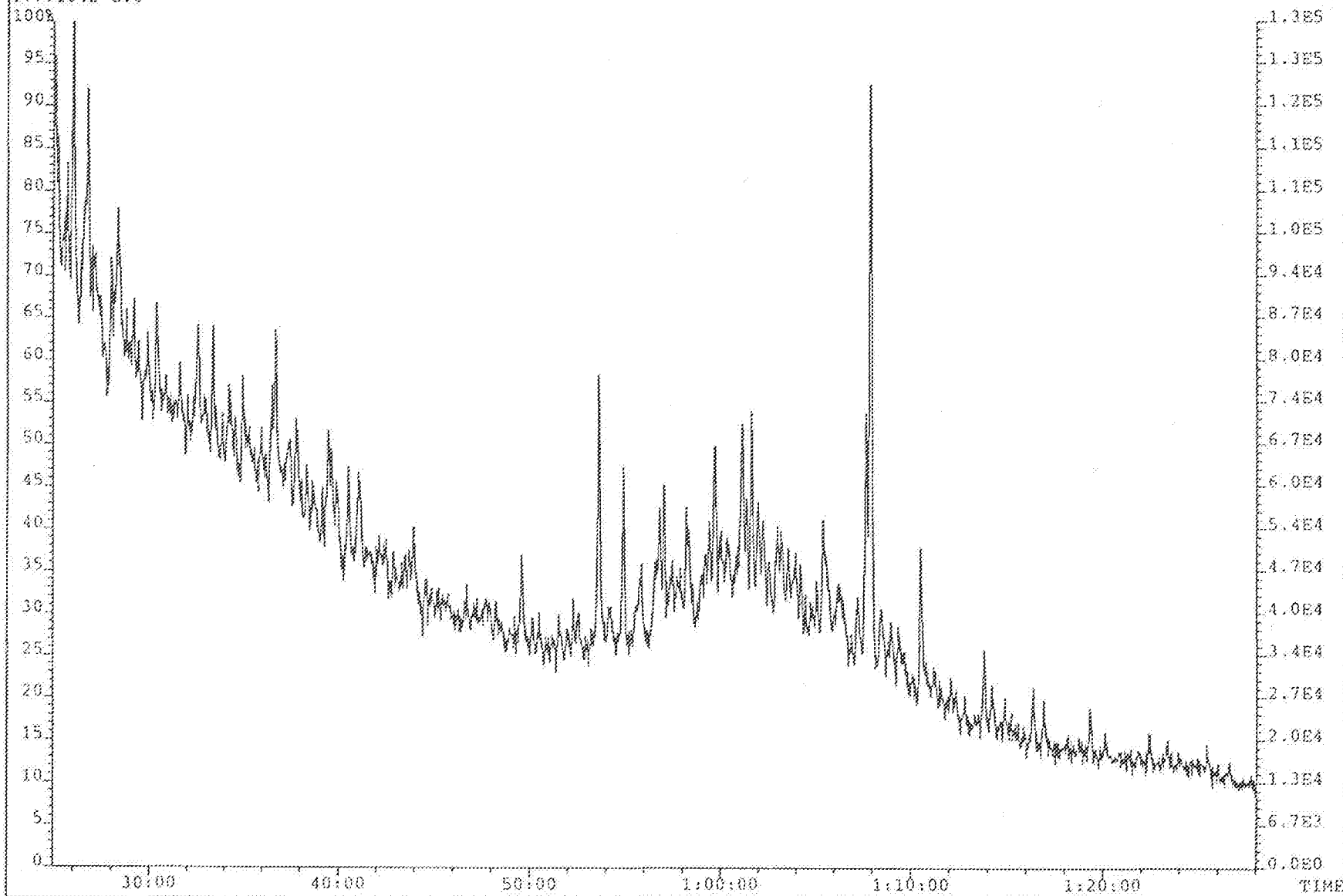
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT1 #1-4740 Acq:23-SEP-1992 11:30:02 EI+ Magnet SIR
Sample#6 Text:WELL 34/10-35, 3894M, SATURATED FRACTION
177.1642 S:6

Exp:SAT1



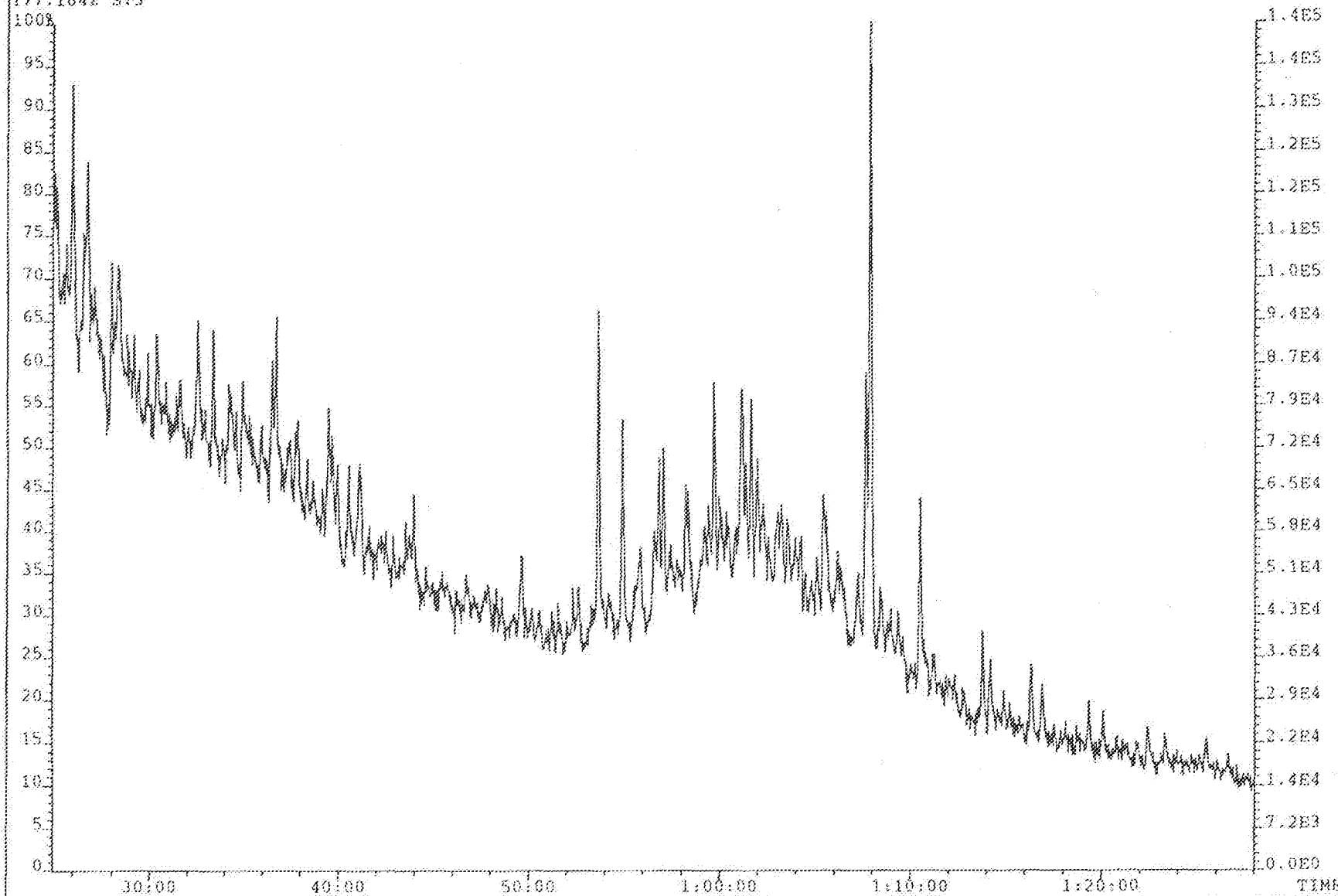
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT3 #1-4739 Acq:23-SEP-1992,13:30:02 EI+ Magnet SIR
Sample#5 Text:WELL 34/10-35, 3985M, SATURATED FRACTION
177.1642 S:5

Exp:SAT1



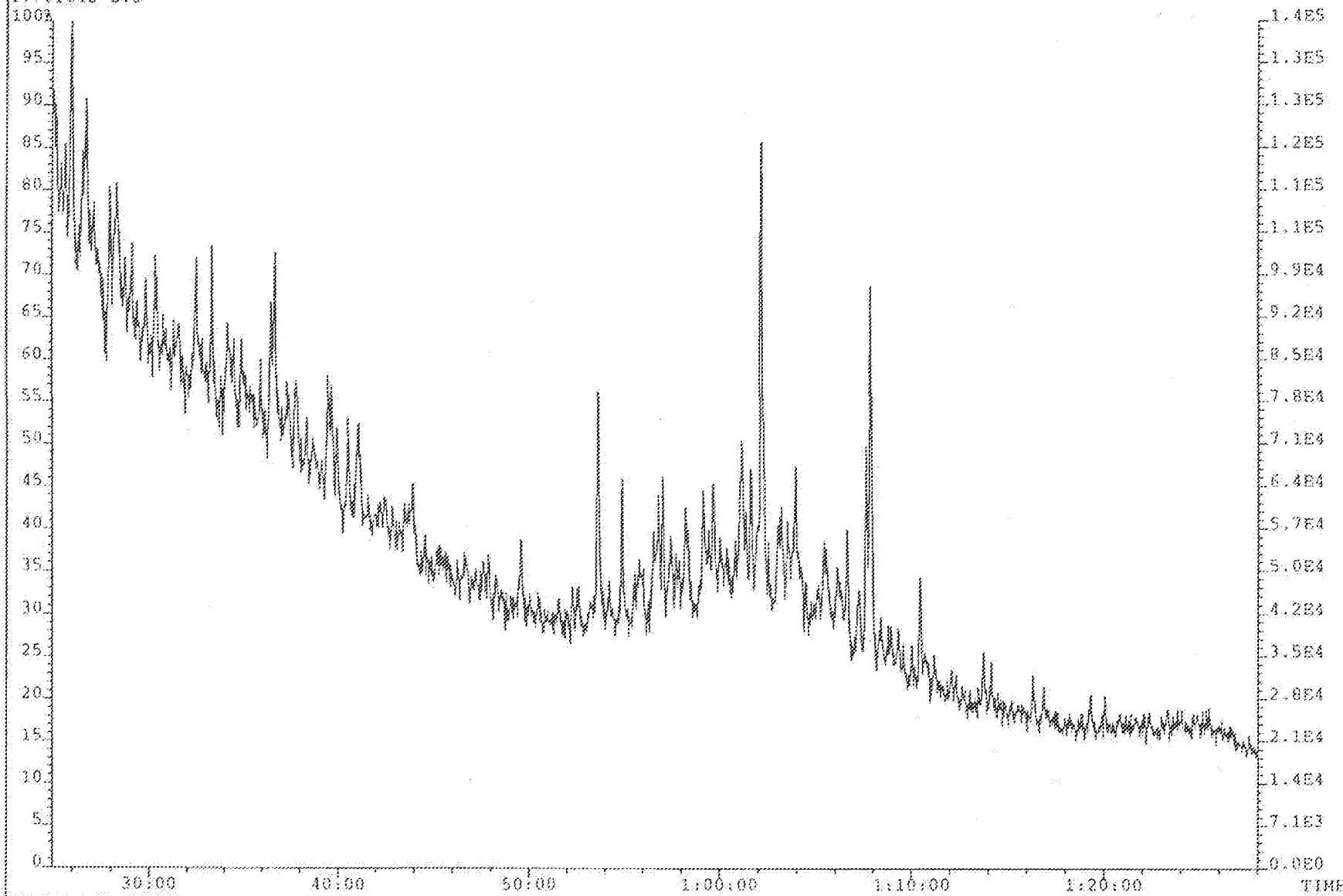
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4740 Acq:22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#5 Text:WELL 34/10-35, 3852M, SATURATED FRACTION
177.1642 S:S

Exp:SAT1



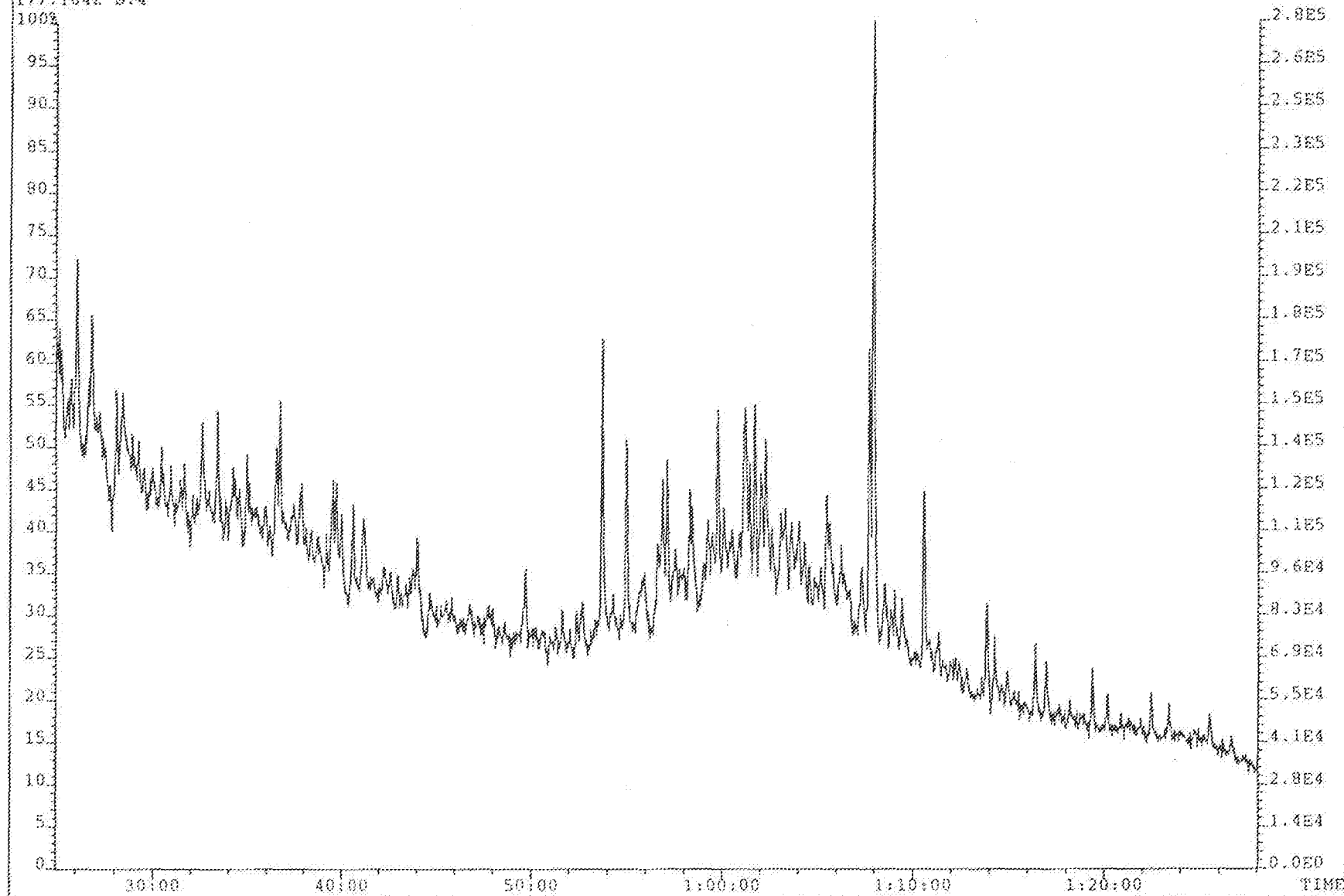
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File: STAFSAT2 W1-4740 Acq: 22-SEP-1992 14:23:15 EI+ Magnet SIR
Sample#4 Text: WELL 34/10-35, 3831M, SATURATED FRACTION
177.1642 S:4

Exp: SAT1



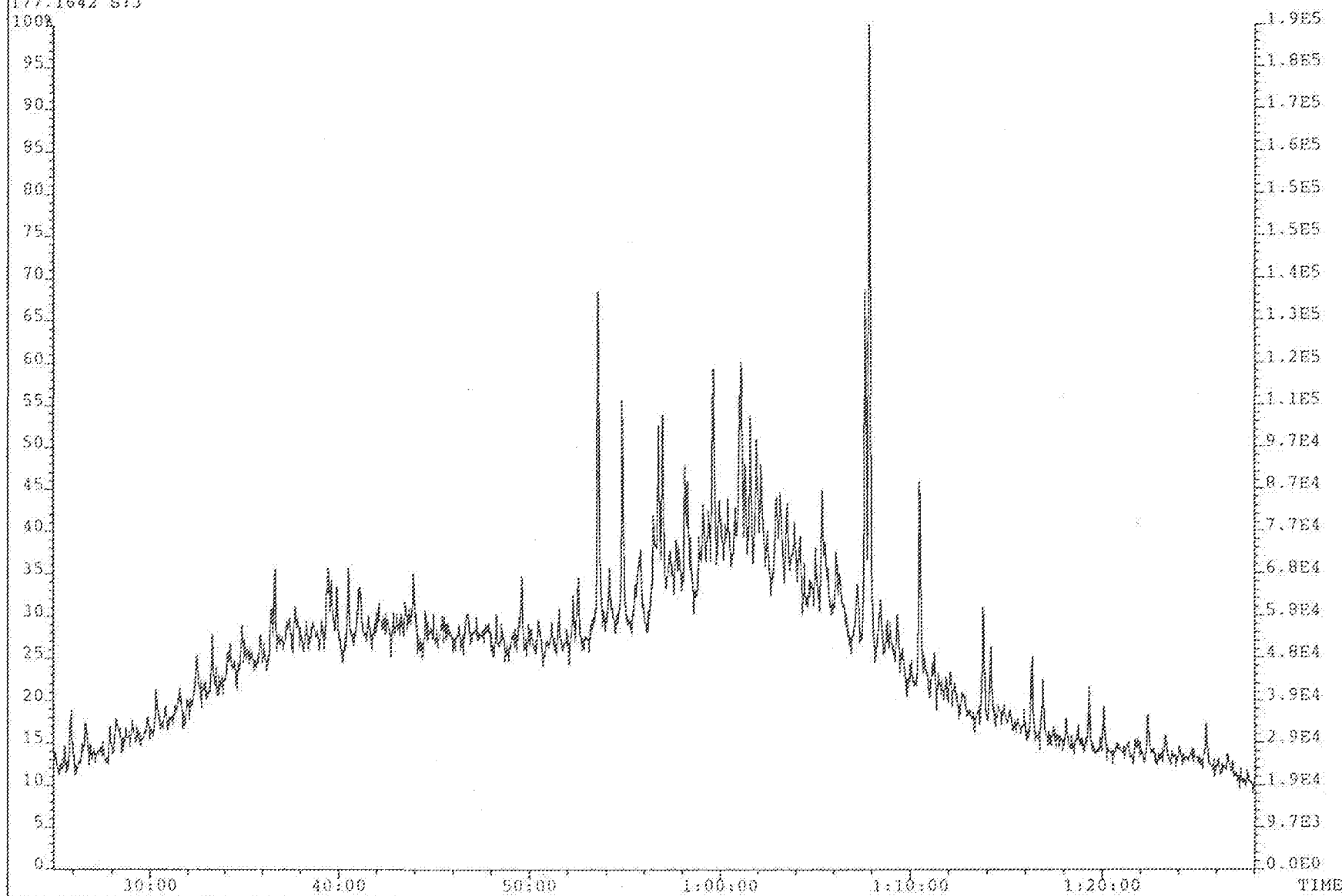
Schlumberger

GECO-PRAKLA

GEOLAB NOR

File:STATSAT2 #1-4739 Acq:12-SEP-1992 14:23:15 Exp:MagneS SIR
Sample#3 Text:WELL 34/10-35, 3530M, SATURATED FRACTION
177.1642 S/C

Exp:SAT1

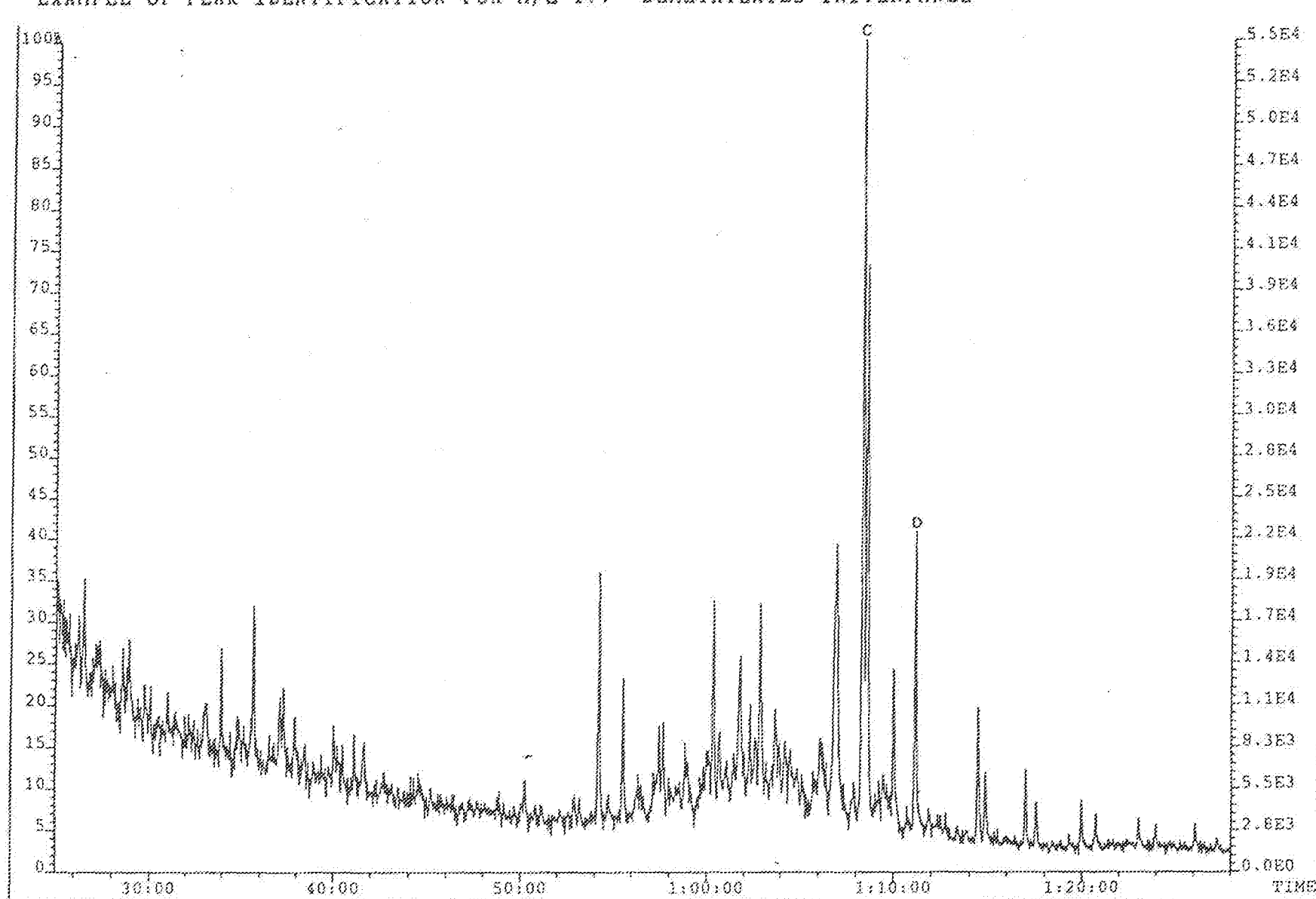


Schlumberger

GECO-PRAKLA

GEOLAB NOR

EXAMPLE OF PEAK IDENTIFICATION FOR M/Z 177 DEMETHYLATED TRITERPANES



Schlumberger

GECO-PRAKLA

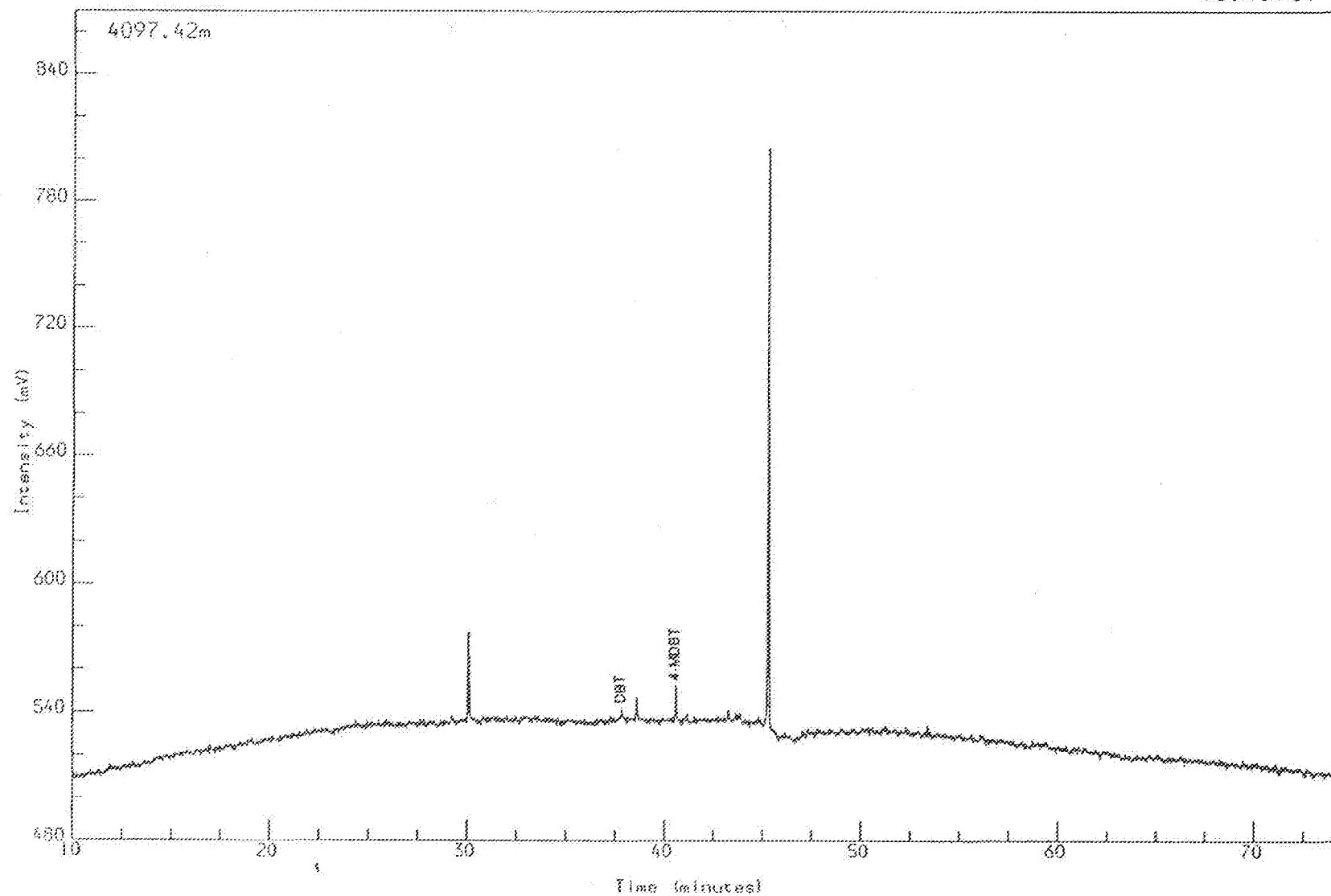
GEOLAB NOR

APPENDIX 3:

GAS CHROMATOGRAPHY - MASS SPECTROMETRY;
FRAGMENTOGRAMS

Analysis Name : [526265] 30 AH4700610B,6,1.

Multichrom



WELL NOCS 34/10-23 4097.42m ccp
AROMATIC GC (FPD)
S/Sst: lt gy to brn gy to pl brn

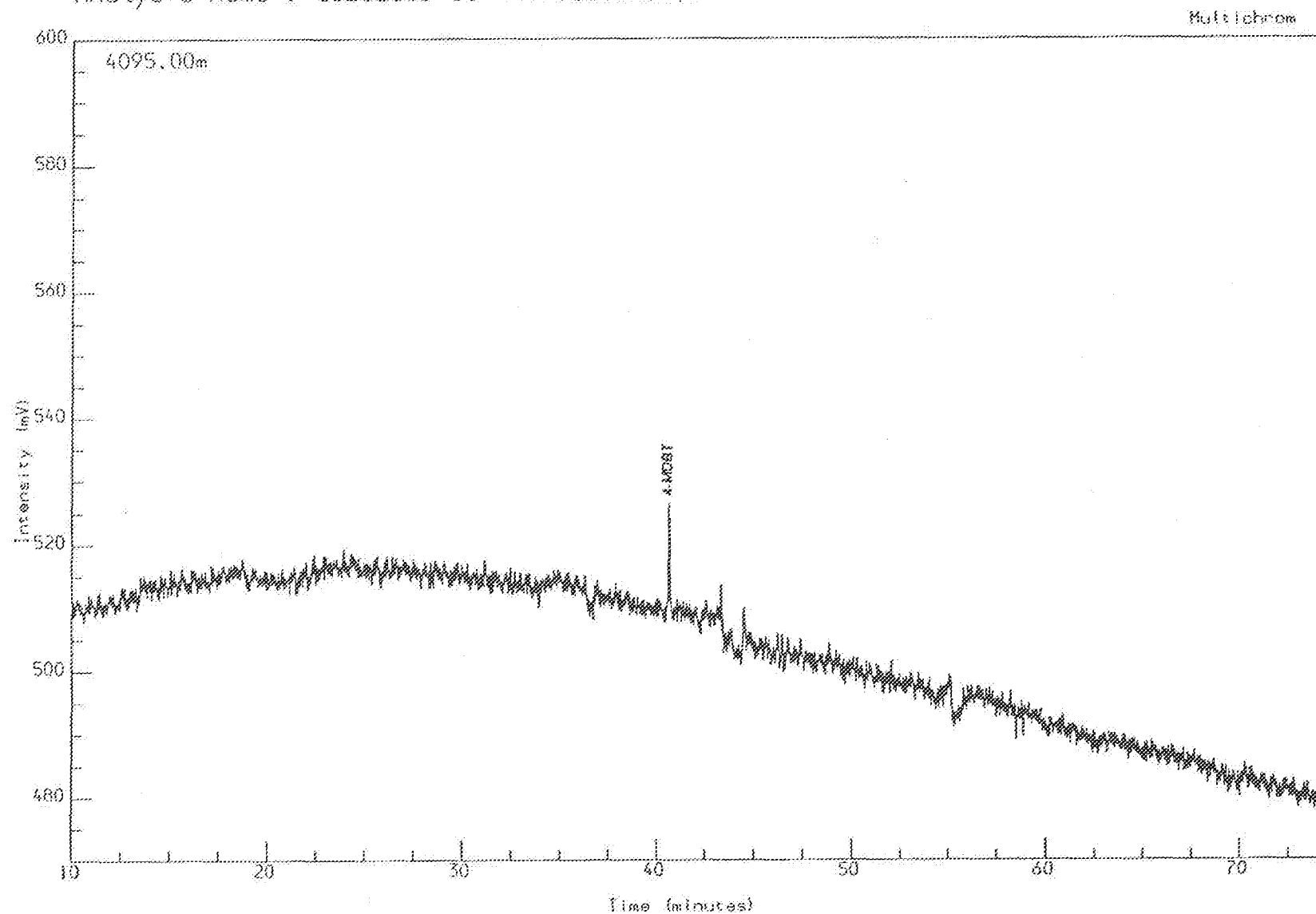
Reported on 24-SEP-1992 at 12:44

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AH4700610B.7.1.



WELL NOCS 34/10-23 40BS-4095m
AROMATIC BC (FPD)

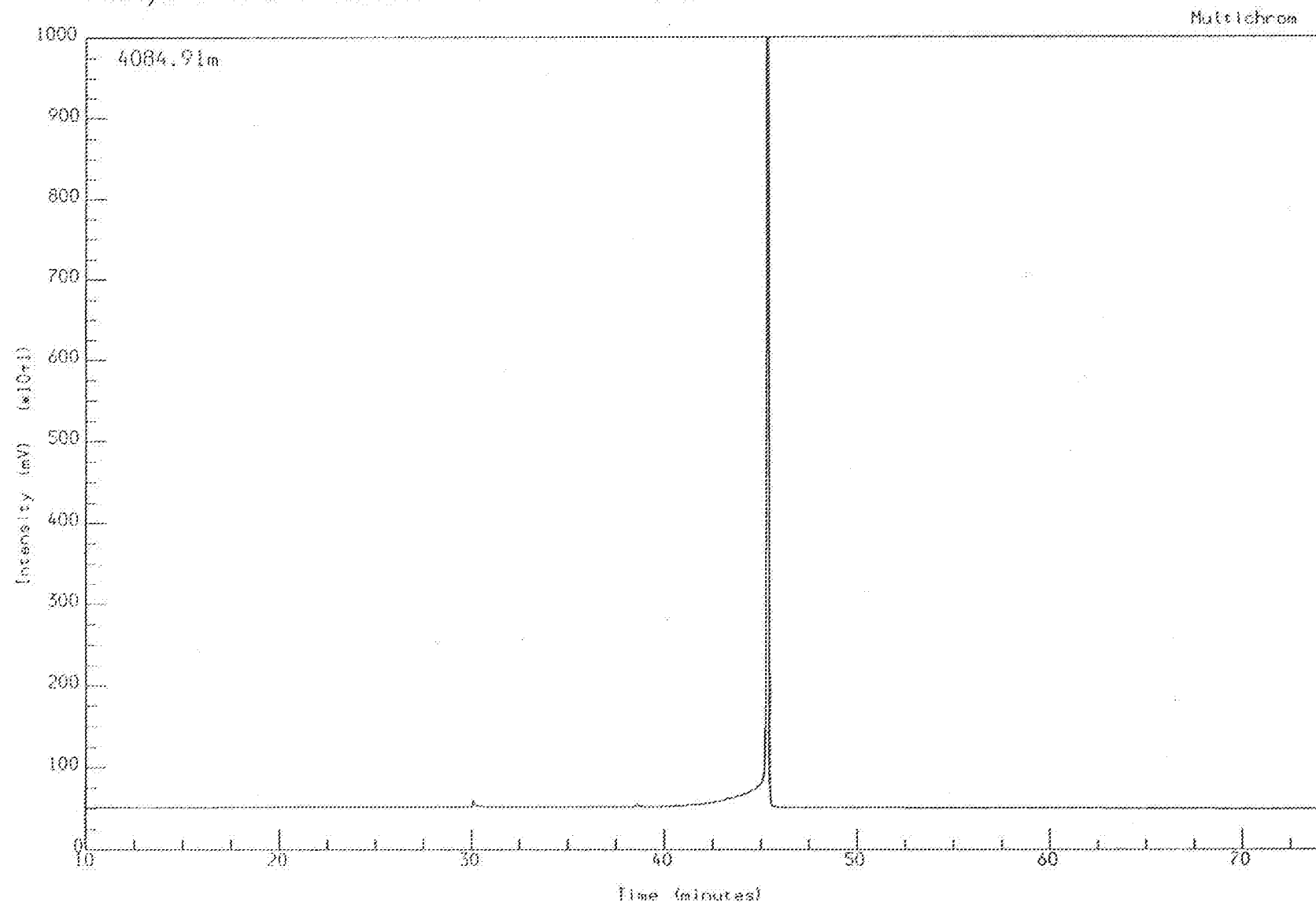
Reported on 24-SEP-1992 at 13:35

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.2.1.



WELL NOCS 34/10-23 4084.91m ccp
AROMATIC GC (FPD)
S/Sst: lt gy to lt brn gy

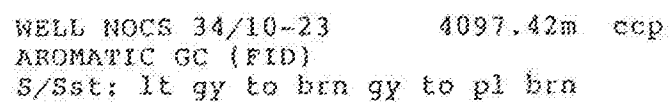
Reported on 31-AUG-1992 at 05:31

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Mette Ichrom

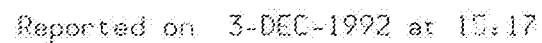


Schlumberger

GECO-PRAKLA

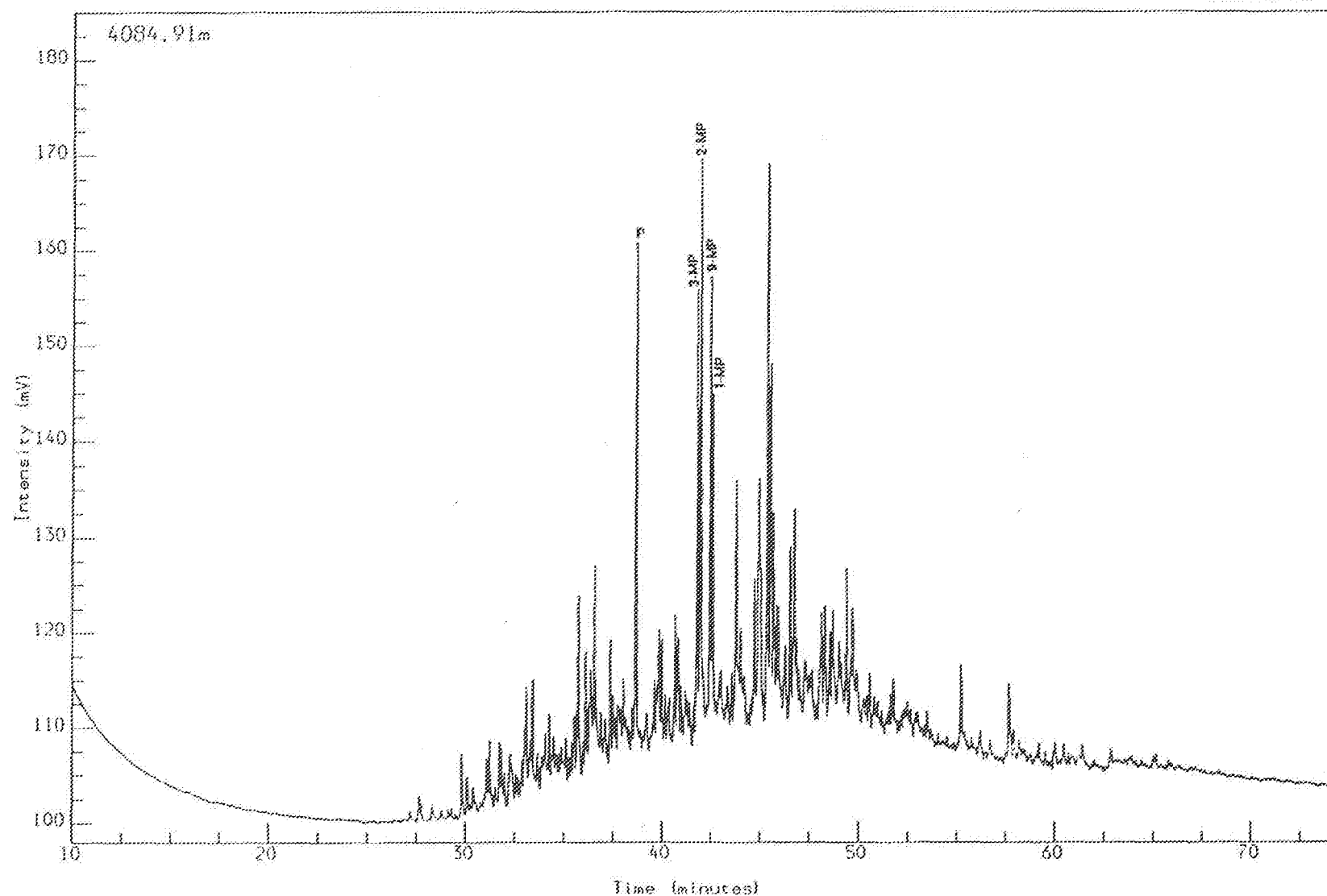
GEOLAB  NOR

Multichrom



Analysis Name : [526265] 29 AG340358IL,2,1.

Multichrom



WELL NOCS 34/10-23 4084.91m ccp
AROMATIC GC (FID)
S/Sst: lt gy to lt brn gy

Reported on 31-AUG-1992 at 04.36

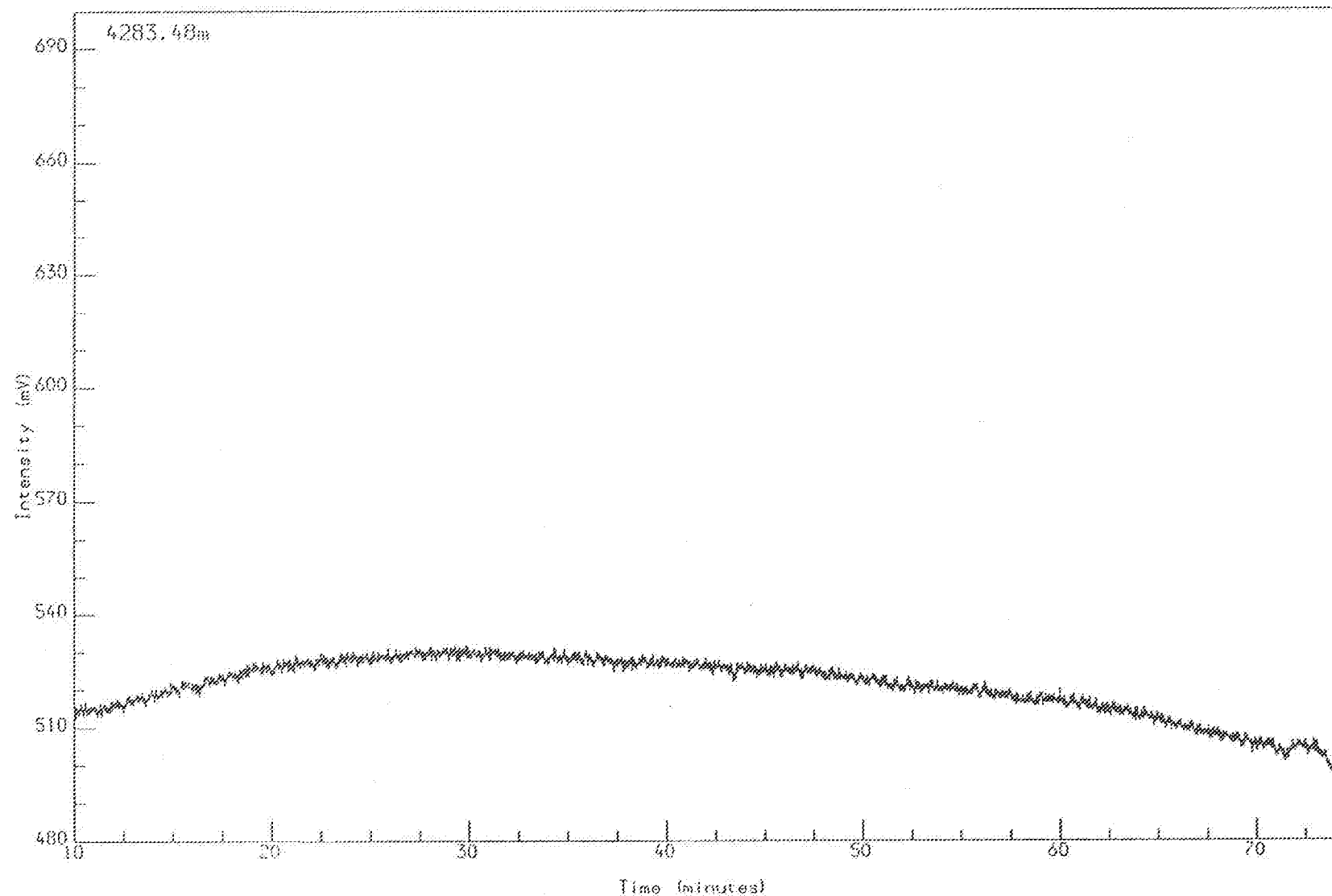
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.13.1.

Multichrom



WELL NOCS 34/10-35 4283.48m ccp
AROMATIC GC (FPD)
S/Sst: lt gy w to lt gy

Reported on 23-SEP-1992 at 08:52

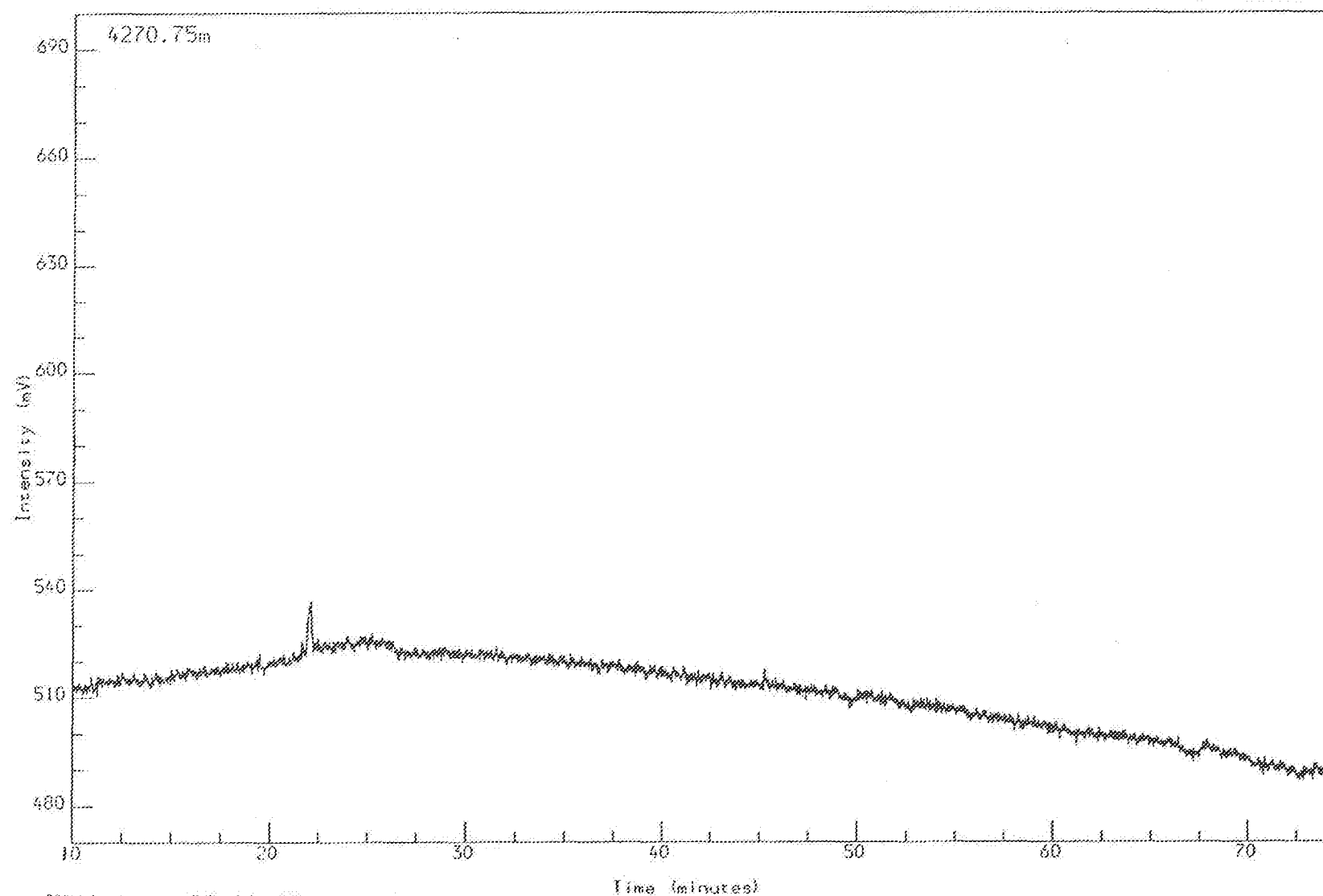
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.12.1.

Multichrom



WELL NOCS 34/10-35 4270.75m ccp
AROMATIC GC (FPD)
S/Sst: 1t gy w to 1t gy

Reported on 23-SEP-1992 at 08:49

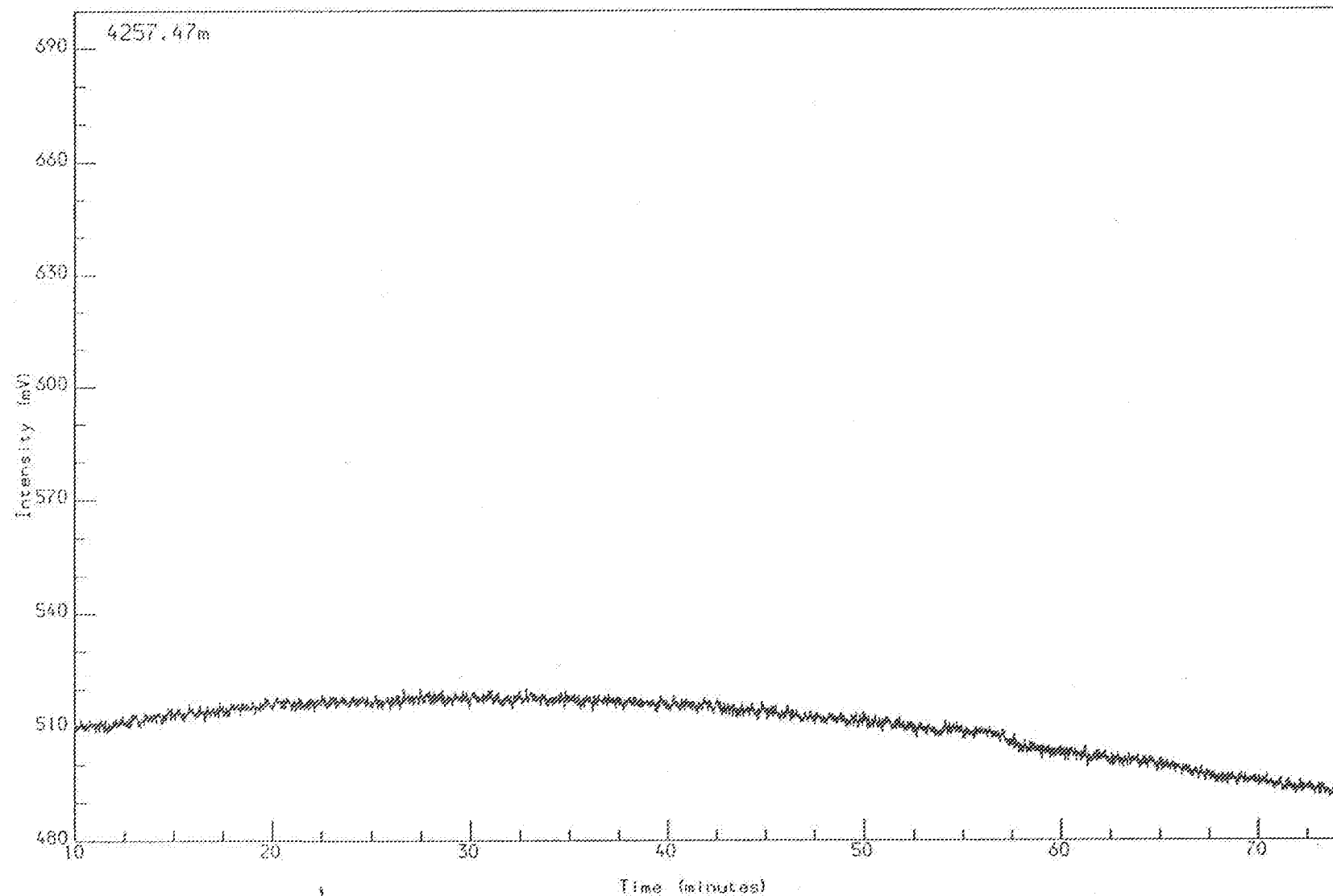
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [S26265] 30 AG3403581L,11,1.

Multichrom



WELL NOCS 34/10-35 ' 4257.47m ccp
AROMATIC GC (FPD)
S/Sst: lt gy w to lt brn gy

Reported on 23-SEP-1992 at 08:47

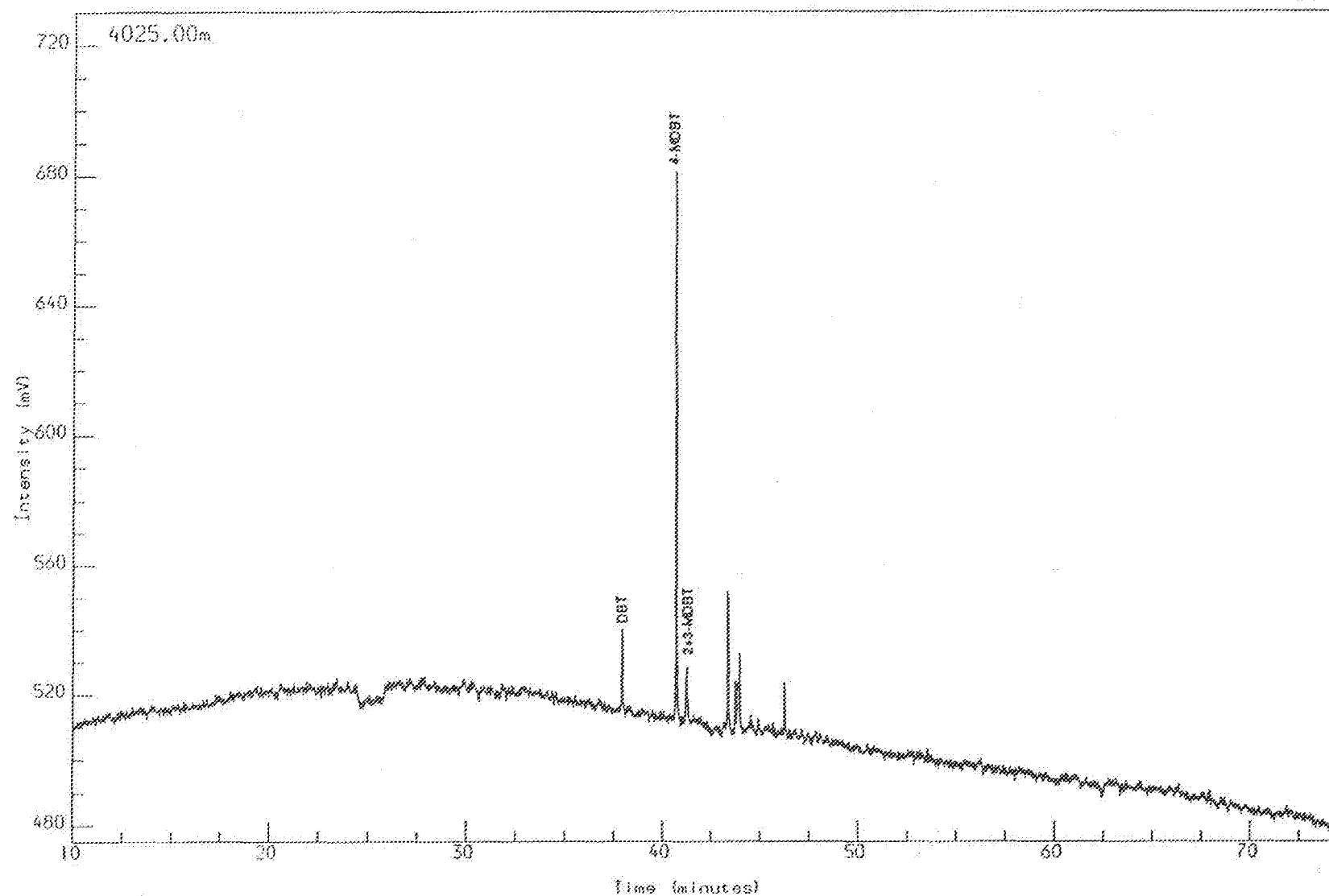
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AH4700610B,8,1.

Multichrom



WELL NOCS 34/10-35 4015-4025m
AROMATIC GC (FPD)

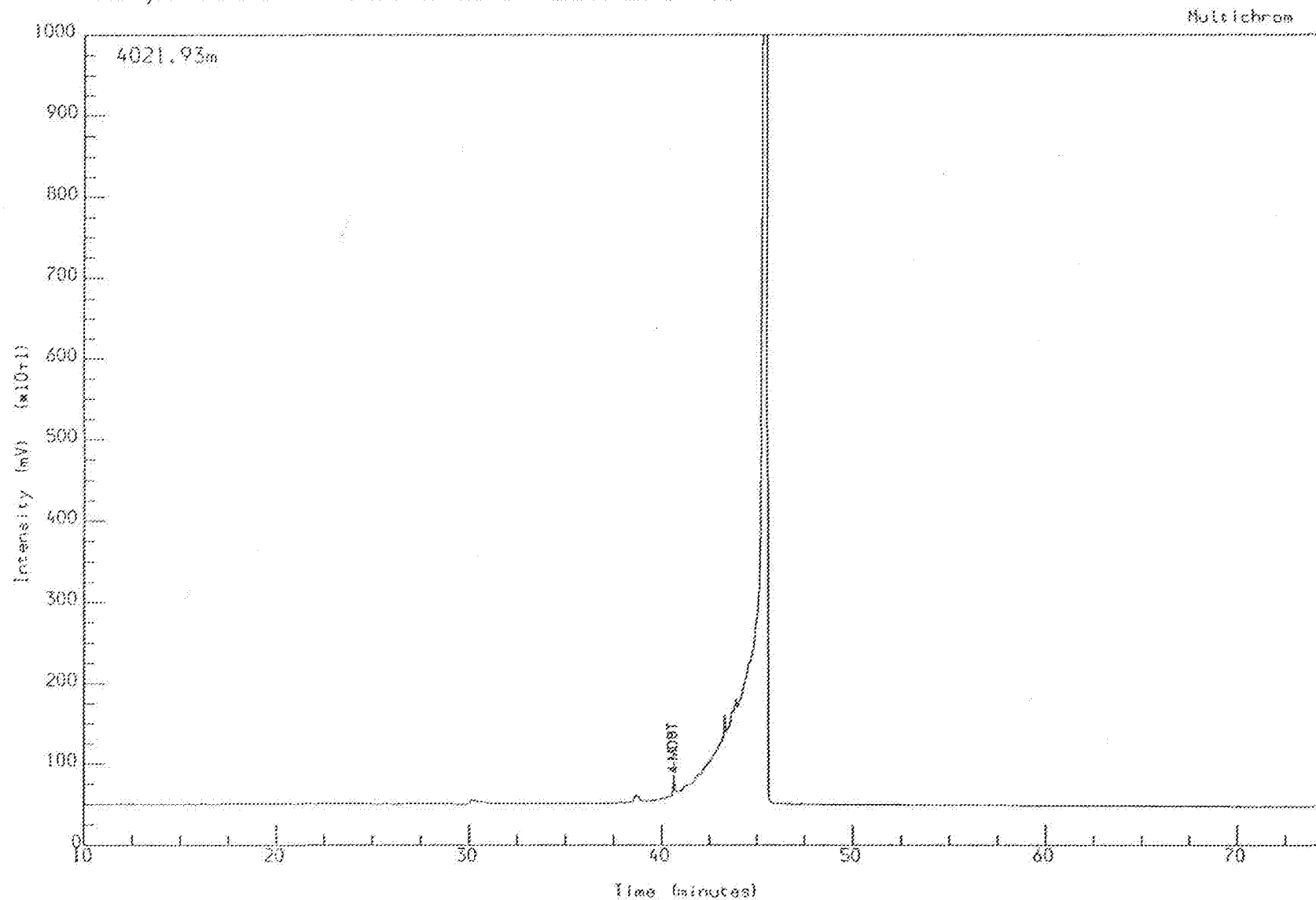
Reported on 24-SEP-1992 at 15:38

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.10.1.



WELL NOCS 34/10-35
AROMATIC GC (FPD)
Sh/Clst: brn gy

4021.93m ccp

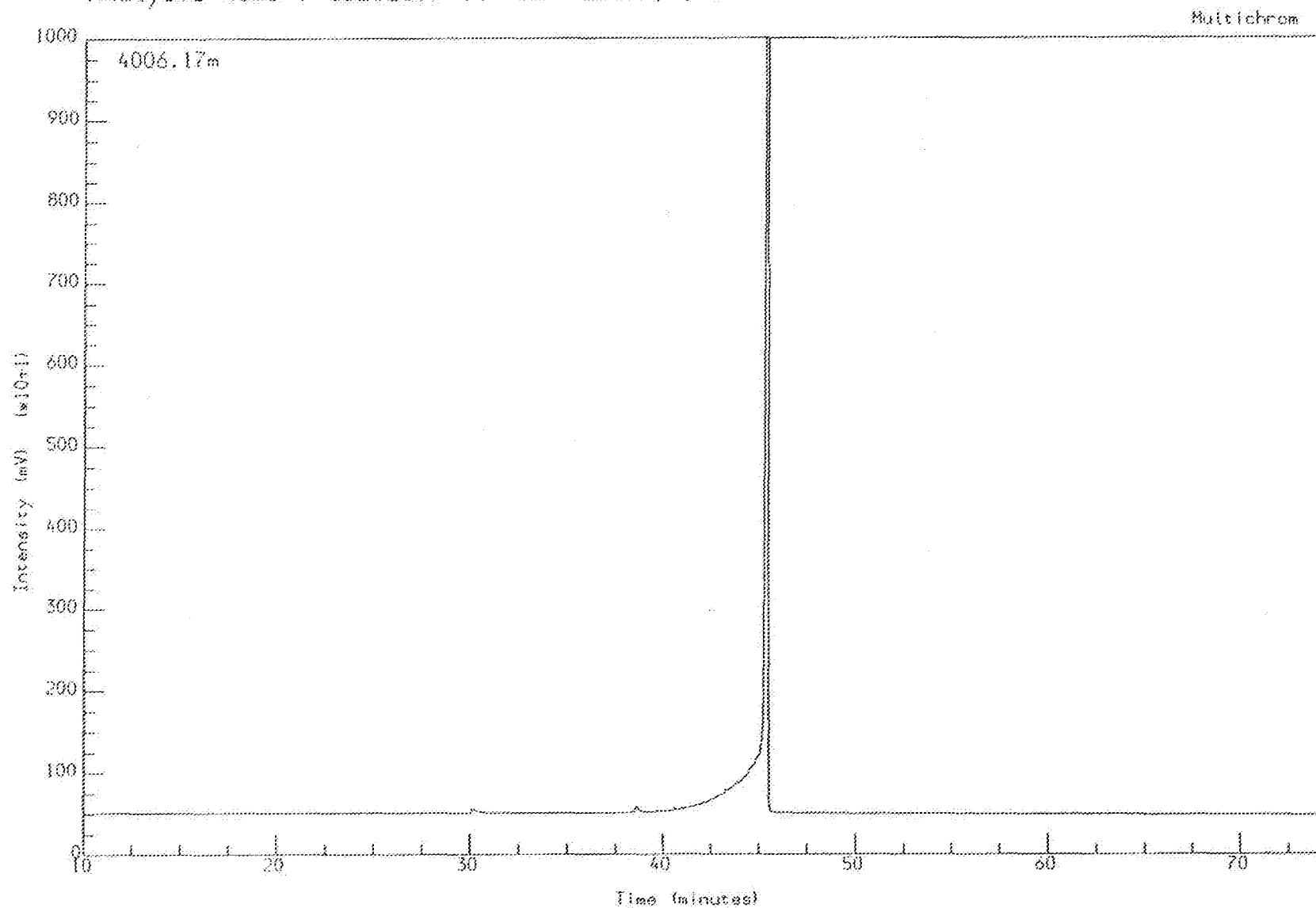
Reported on 23-SEP-1992 at 08:46

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG340358IL.9.1.



WELL NOCS 34/10-35 4006.17m ccp
AROMATIC GC (FPD)
S/Sst: gy w to brn gy to dsk brn

Reported on 23-SEP-1992 at 08:45

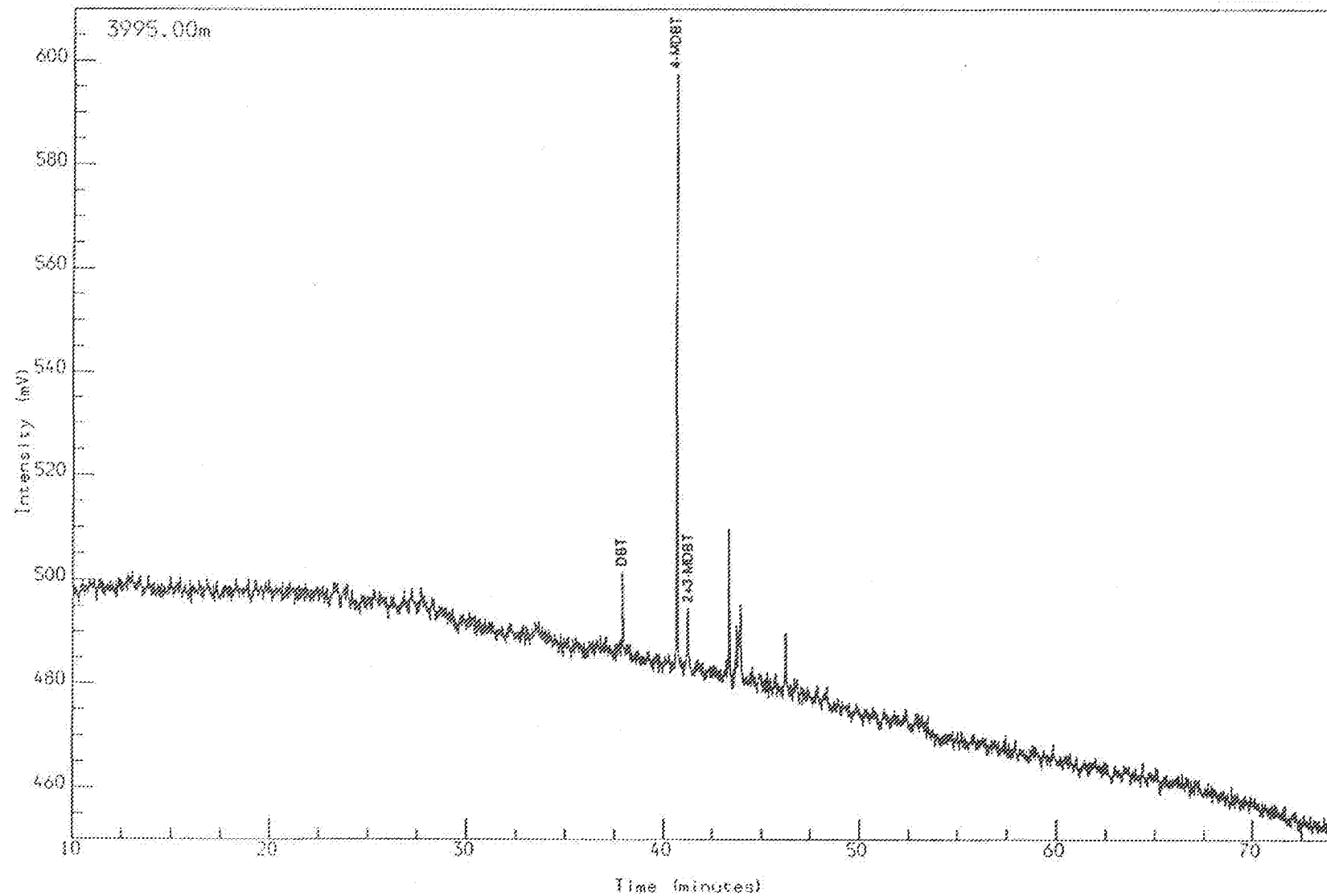
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AH47006100.4.1.

Multichrom



WELL NDCS 34/10-35 3984-3995m
AROMATIC GC (FPD)

Reported on 31-AUG-1992 at 10.48

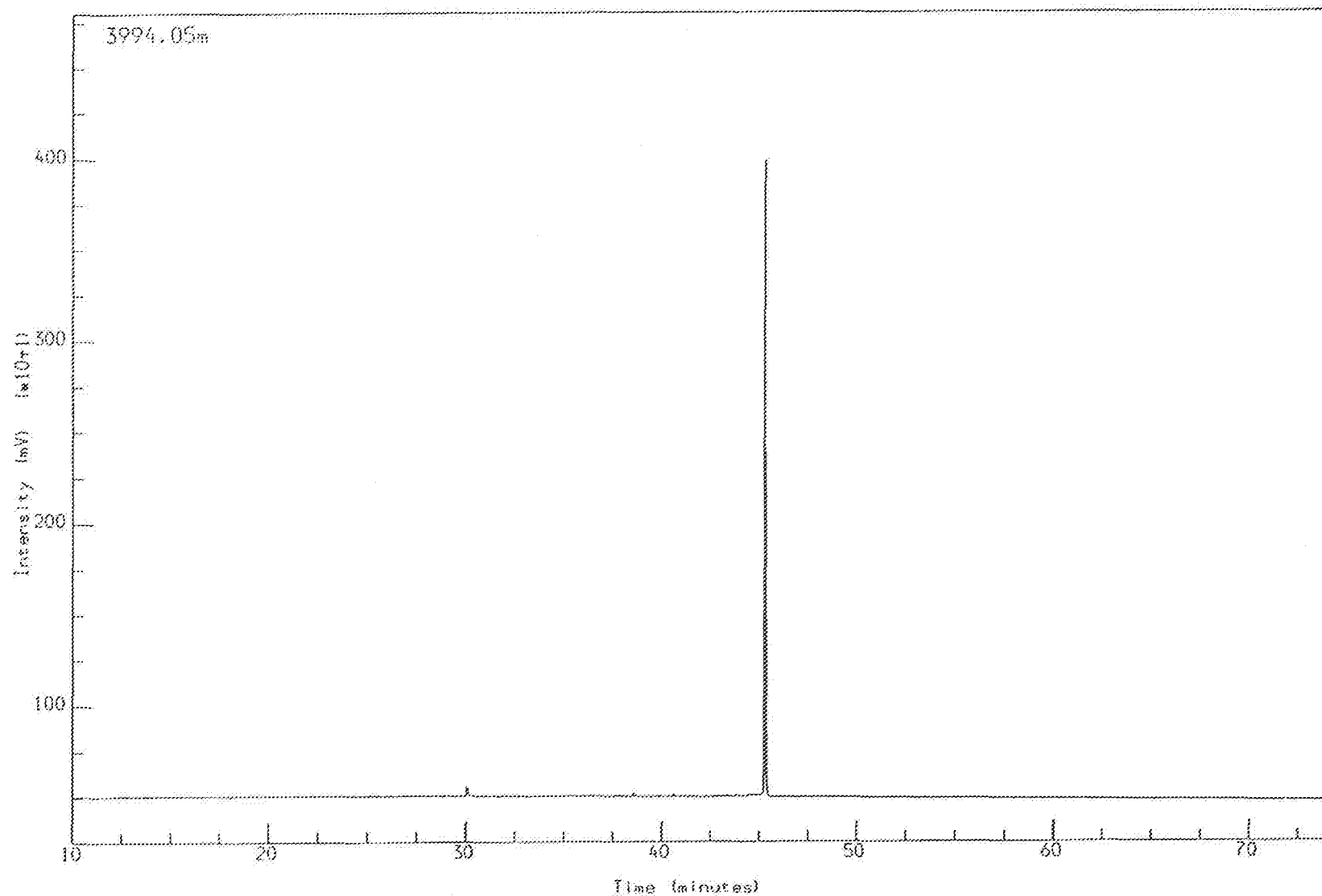
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L,8,1.

Multichrom



WELL NOCS 34/10-35 3994.05m ccp
AROMATIC GC (FPD)
S/Sst: gy w to lt brn gy to brn gy

Reported on 23-SEP-1992 at 08:42

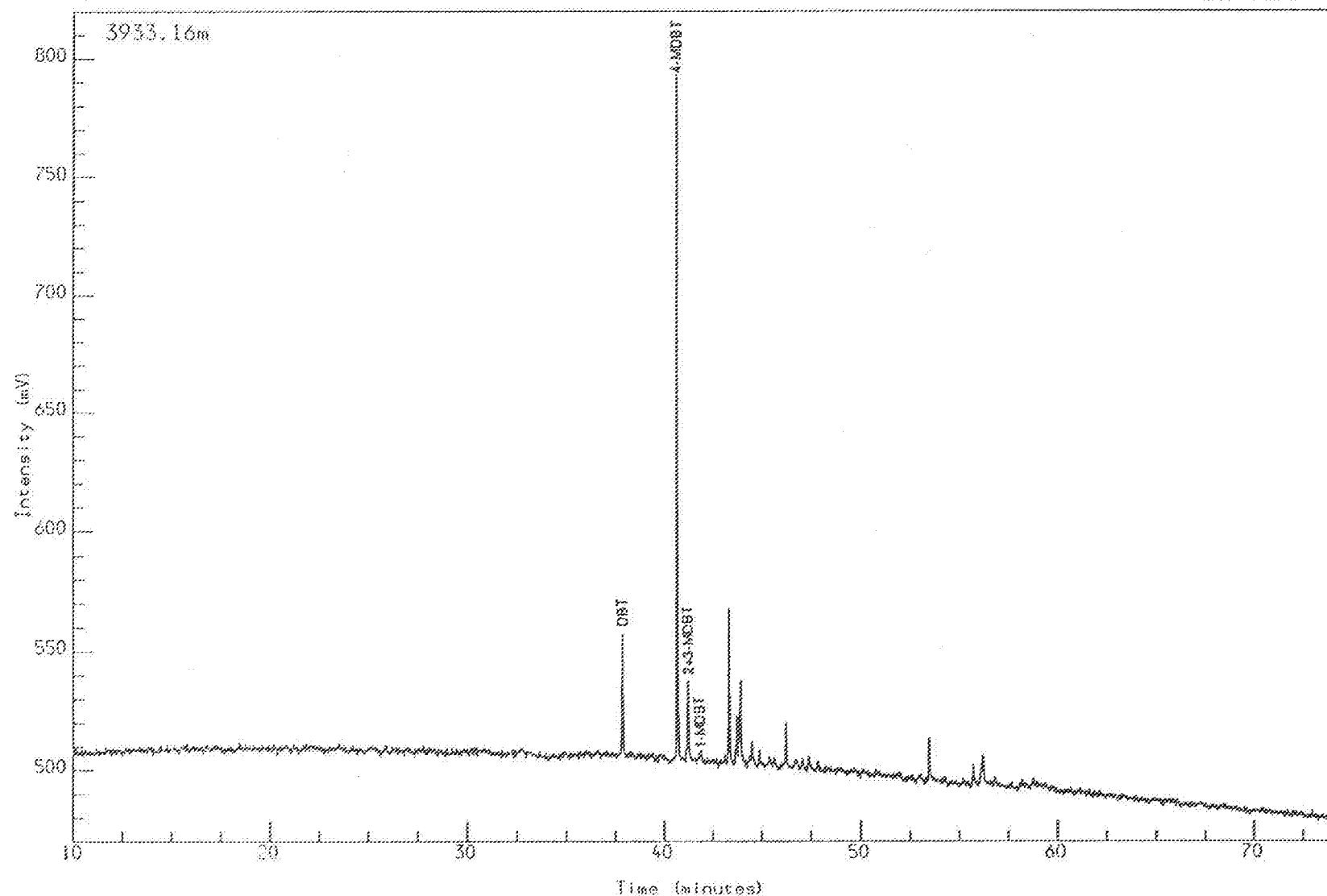
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.7.1.

Multichrom



WELL NOCS 34/10-35 3933.16m ccp
AROMATIC GC (FPD)
S/Sst: gy w to pl y brn

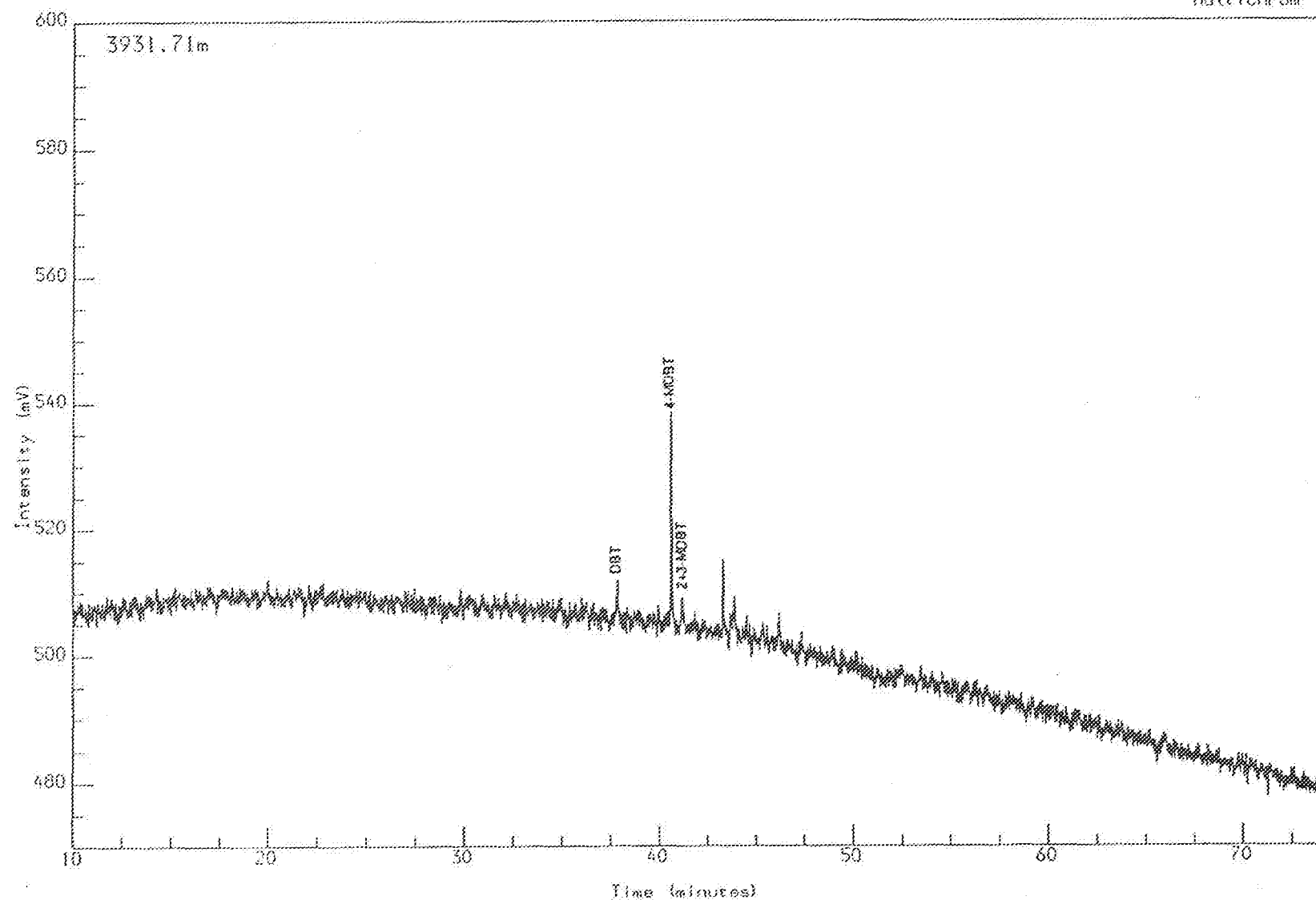
Reported on 23-SEP-1992 at 08:36

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L,6,1.

Multichrom



WELL NOCS 34/10-35
AROMATIC GC (FPD)
S/Sst: pl y brn

3931.71m ccp

Reported on 23-SEP-1992 at 08:32

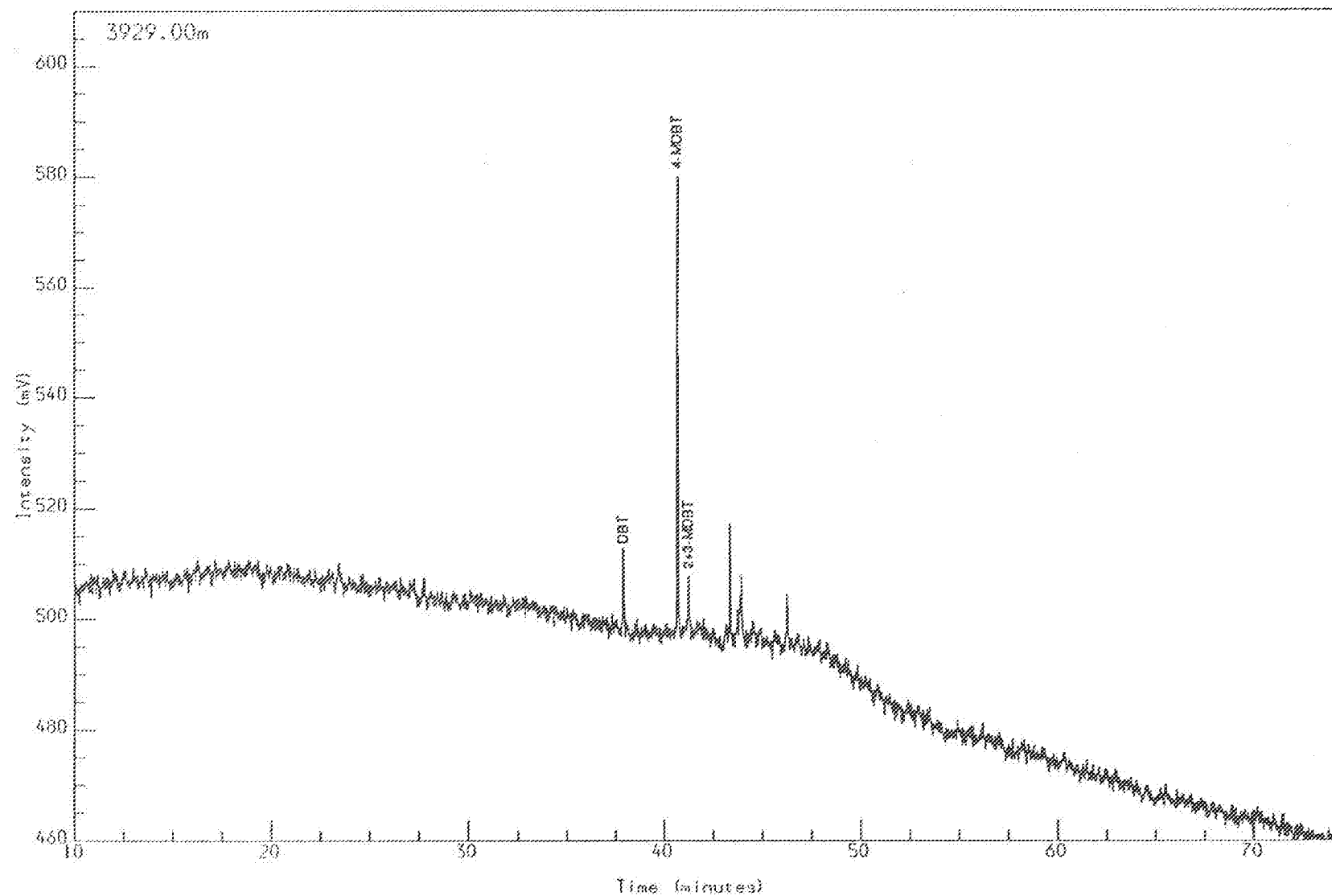
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AH4700610B.3.1.

Multichrom



WELL NOCS 34/10-35 3920-3929m
AROMATIC GC (FPD)

Reported on 31-AUG-1992 at 10:23

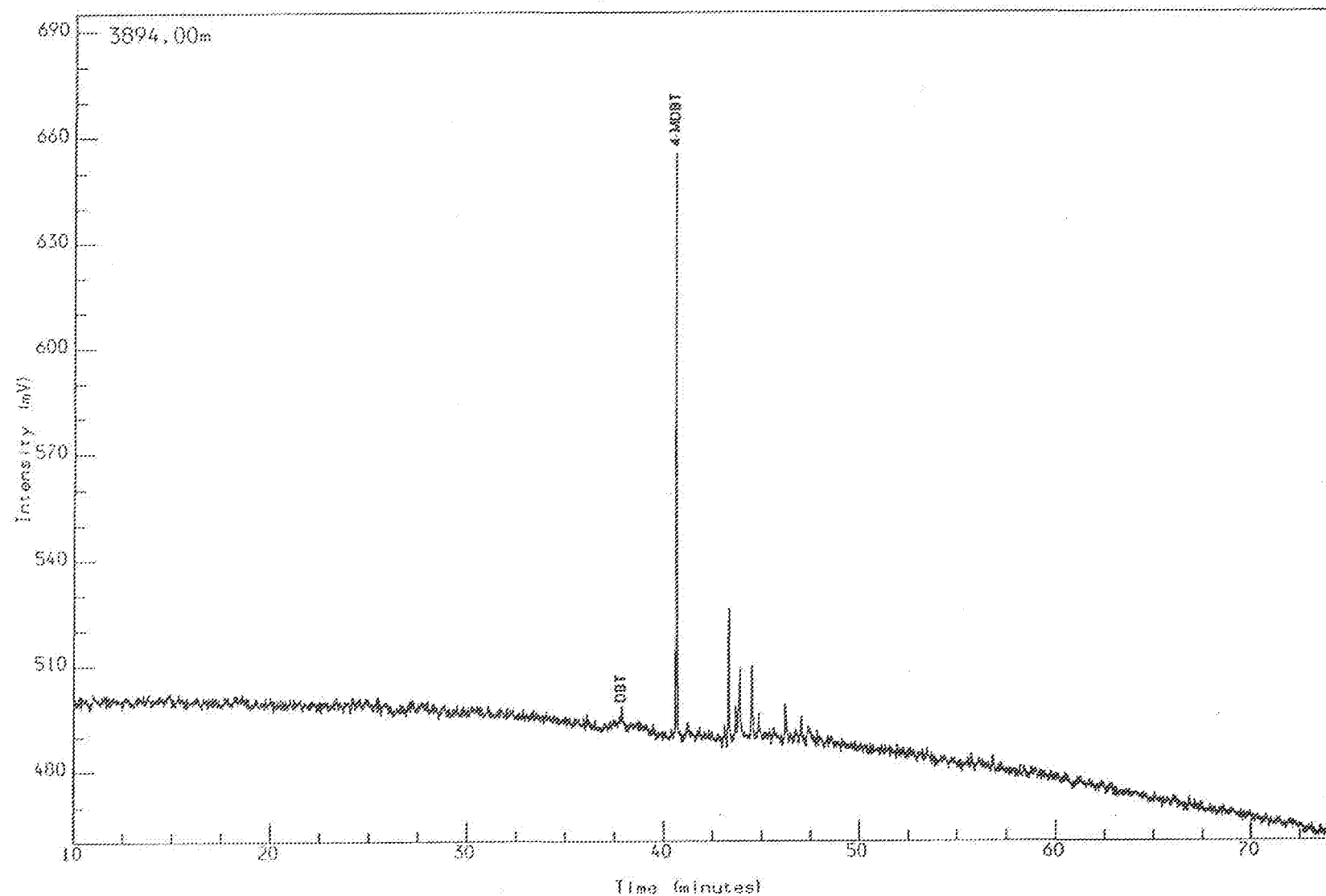
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AH4700572L.3.1.

Multichrom



WELL NOCS 34/10-35 3894.00m cut
AROMATIC GC (FPD)
Sh/Clst: m gy to drk gy

Reported on 23-SEP-1992 at 09:05

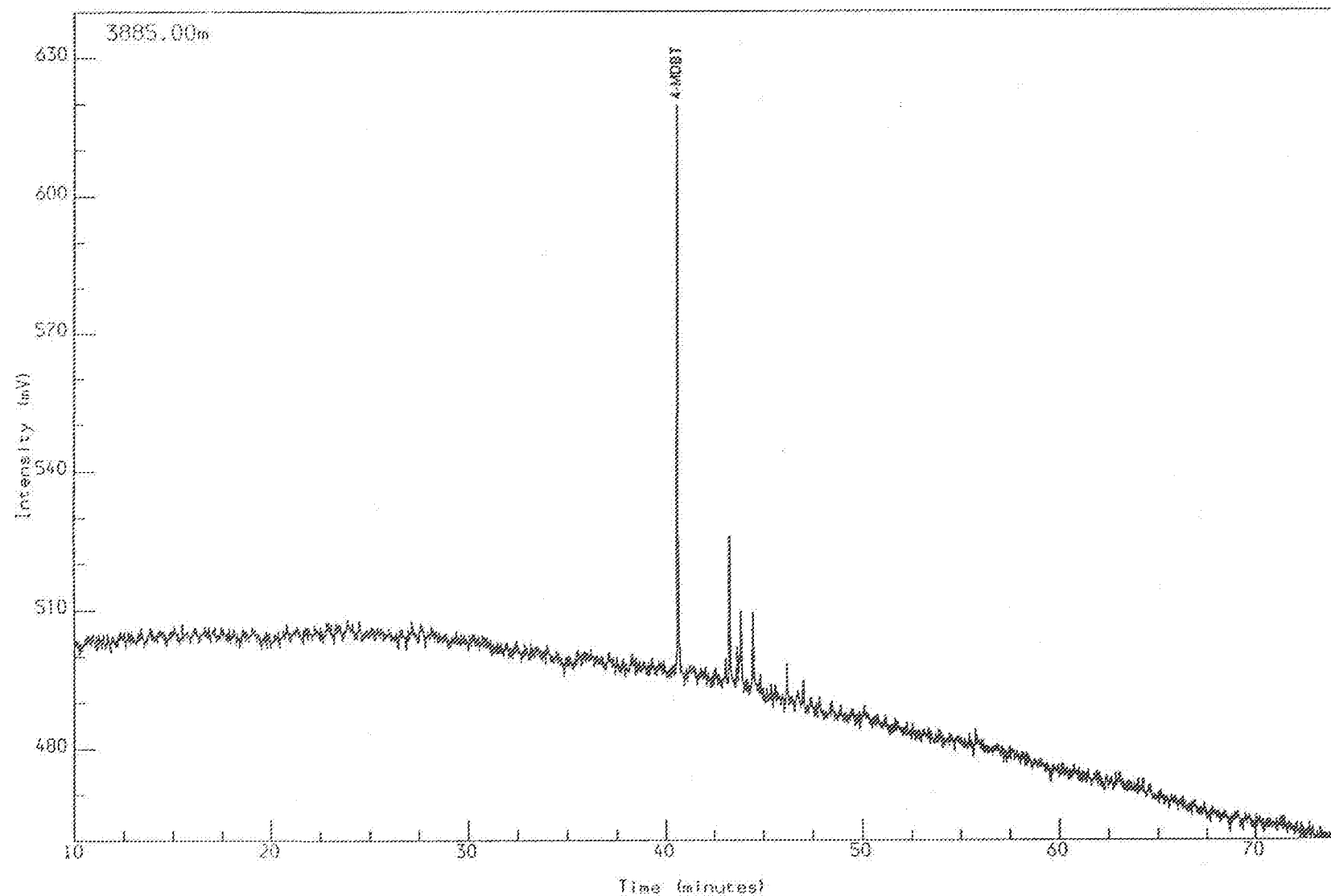
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 BH4700572L,2,1.

Multichrom



WELL NOCS 34/10-35 3885.00m cut
AROMATIC GC (FPD)
Sh/Clst: m gy to drk gy

Reported on 23-SEP-1992 at 09:02

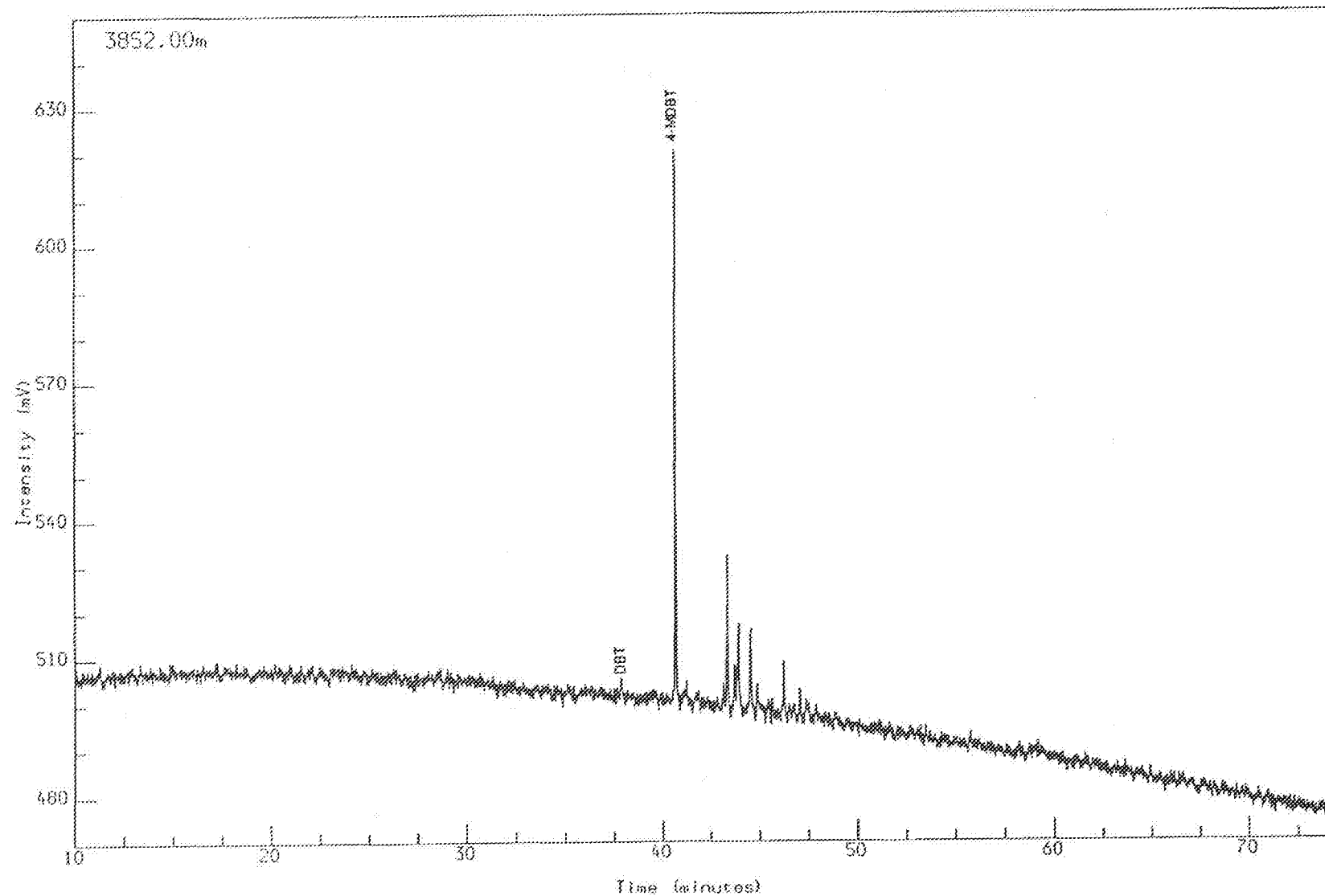
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.5.1.

Multichrom



WELL NOCS 34/10-35 3852.00m cut
AROMATIC GC (FPD)
Sh/Clst: drk gy to brn blk

Reported on 23-SEP-1992 at 08.29

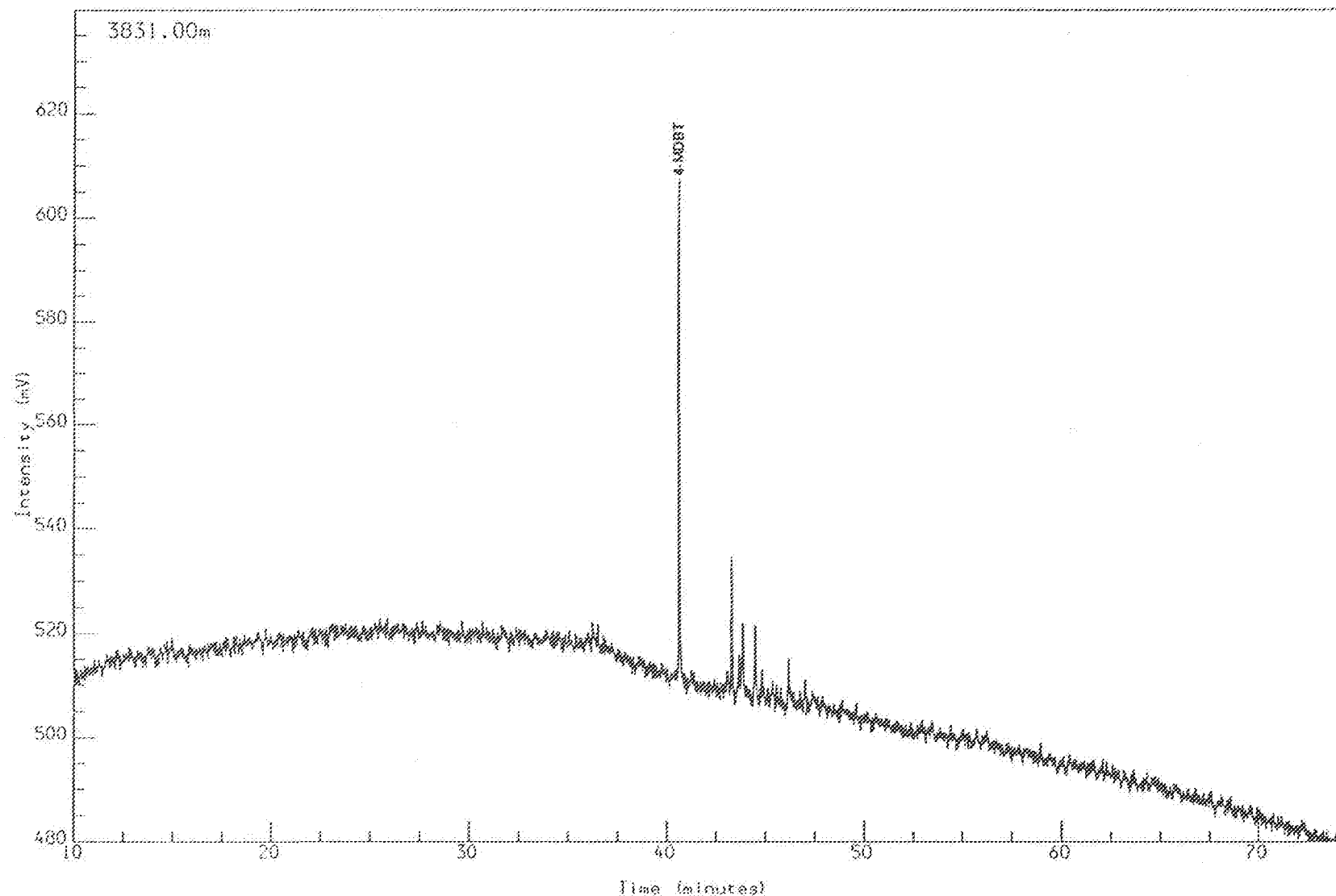
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.4.1.

Multichrom



WELL NOCS 34/10-35 3831.00m cut
AROMATIC GC (FPD)
Sh/C1st: m gy to drk gy

Reported on 31-AUG-1992 at 05:35

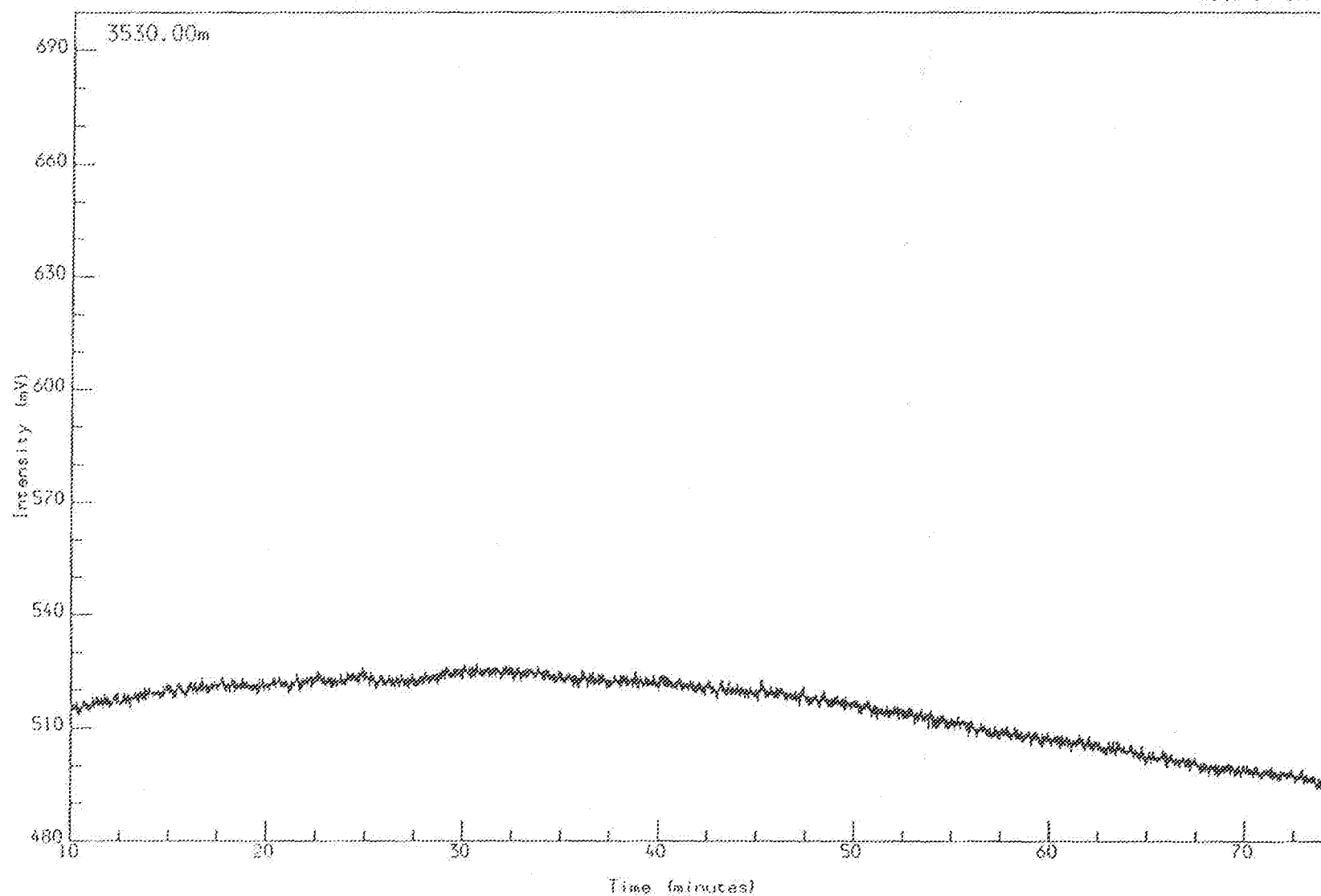
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 AG3403581L.3.1.

Multichrom



WELL NOCS 34/10-35 3530.00m cut
AROMATIC GC (FED)
Marl: y gy to lt gy

Reported on 31-AUG-1992 at 05.33

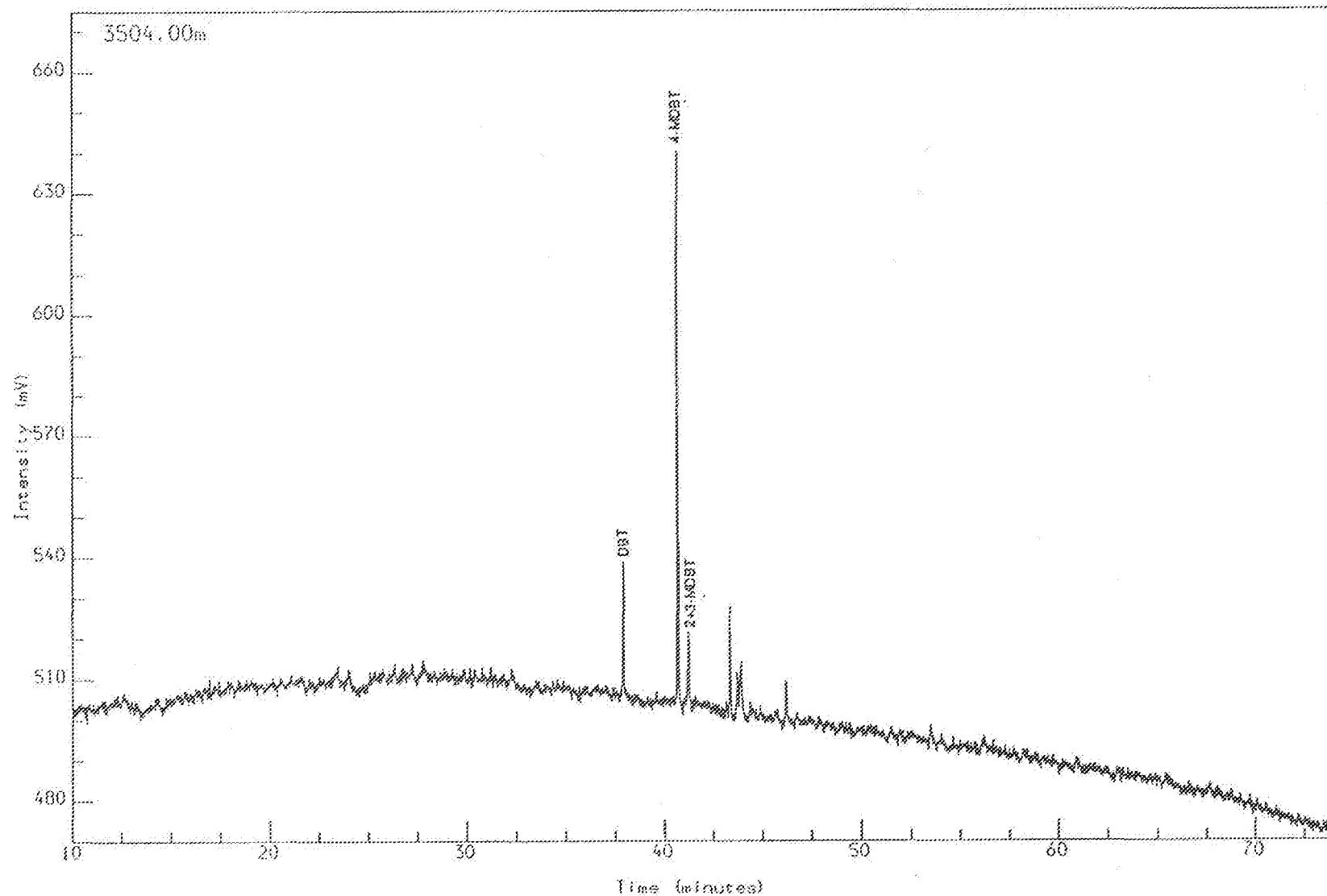
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 30 RH4700610B.2.1.

Multichrom



WELL NOCS 34/10-35 3496-3504m
AROMATIC GC (FPD)

Reported on 31-AUG-1992 at 10.19

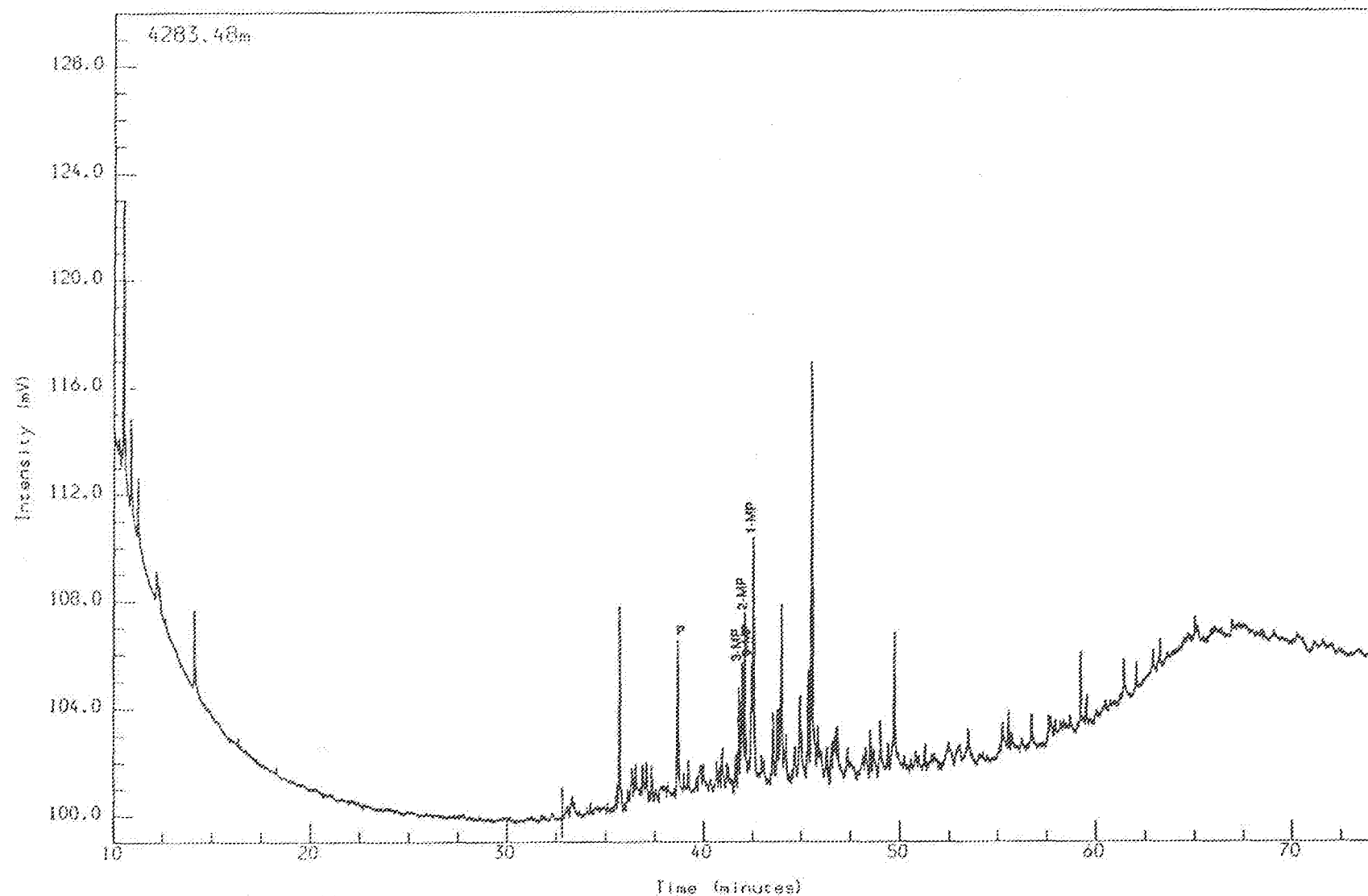
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AG3403581L.13.1.

Maleichrom



WELL NOCS 34/10-35 4283.48m ccp
AROMATIC GC (FID)
S/Sst: 1t gy w to 1t gy

Reported on 31-AUG-1992 at 05:30

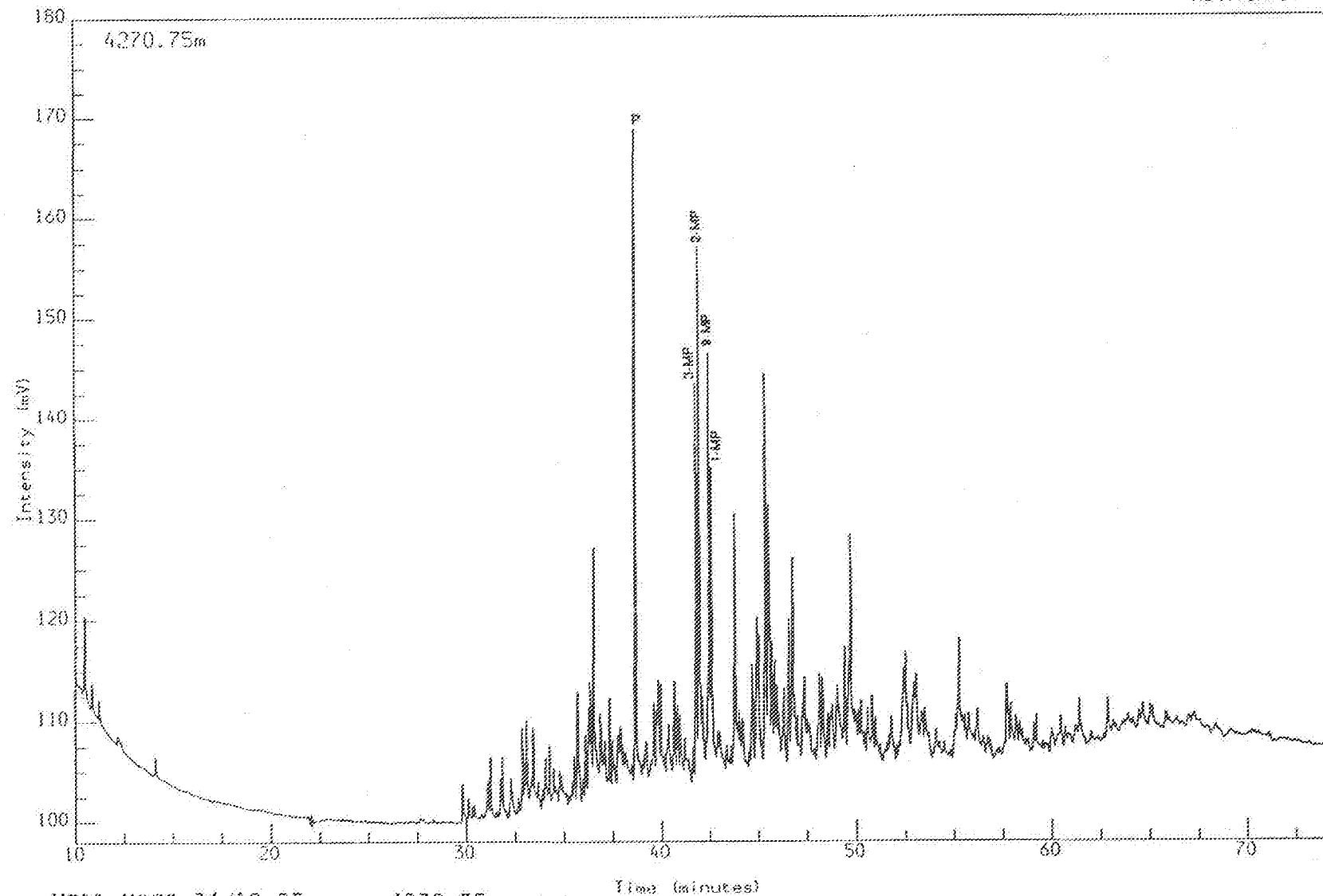
Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Analysis Name : [526265] 29 AG3403581L.12.1.

Multichrom



WELL NOCS 34/10-35 4270.75m ccp
AROMATIC GC (FID)
S/Sst: lt gy w to lt gy

Reported on 31-AUG-1992 at 05:28

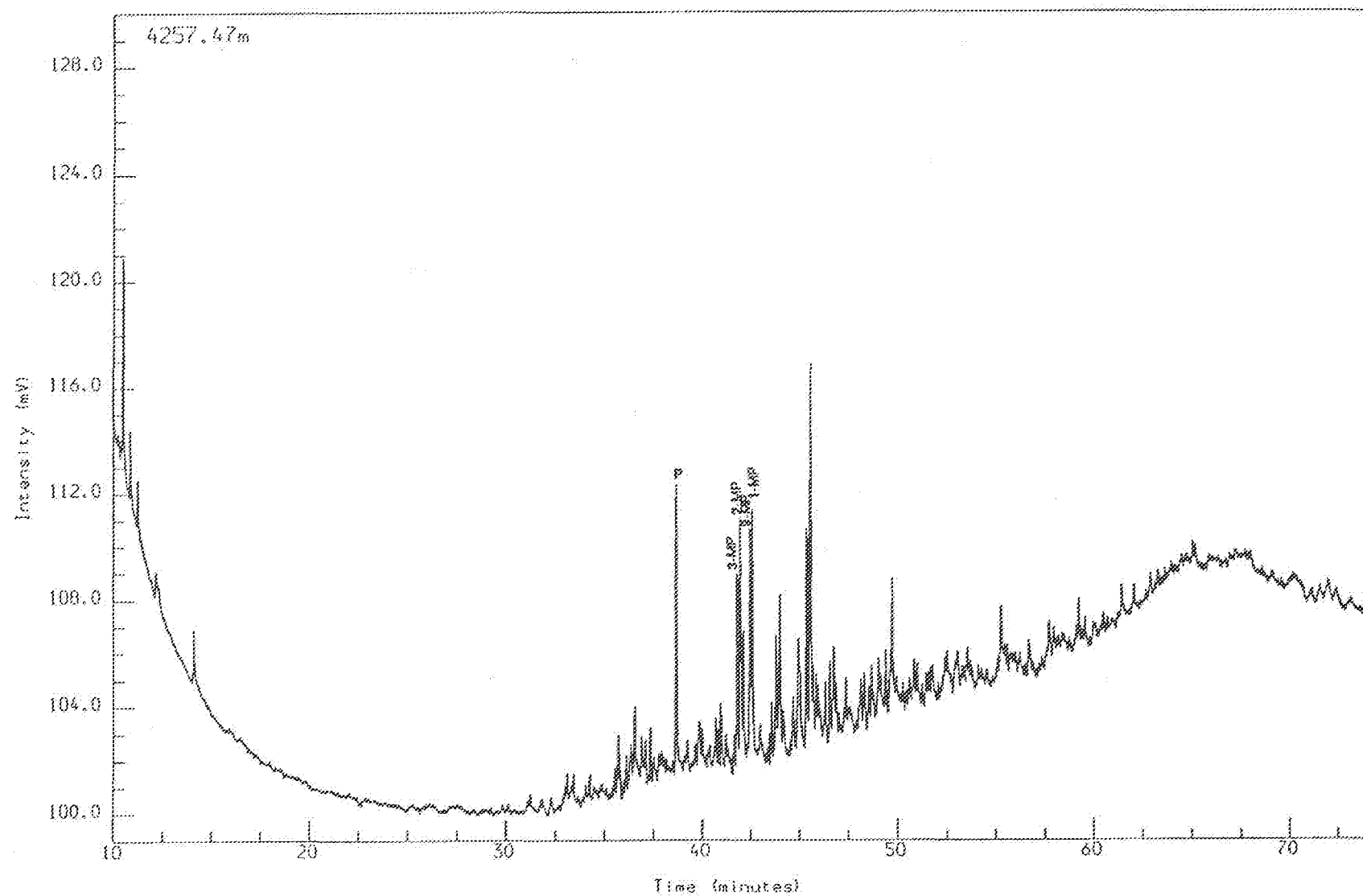
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AG340358[L,11,1.

Multichrom



WELL NOCS 34/10-35 4257.47m ccp
AROMATIC GC (FID)
S/Sst: lt gy w to lt brn gy

Reported on 31-AUG-1992 at 05:25

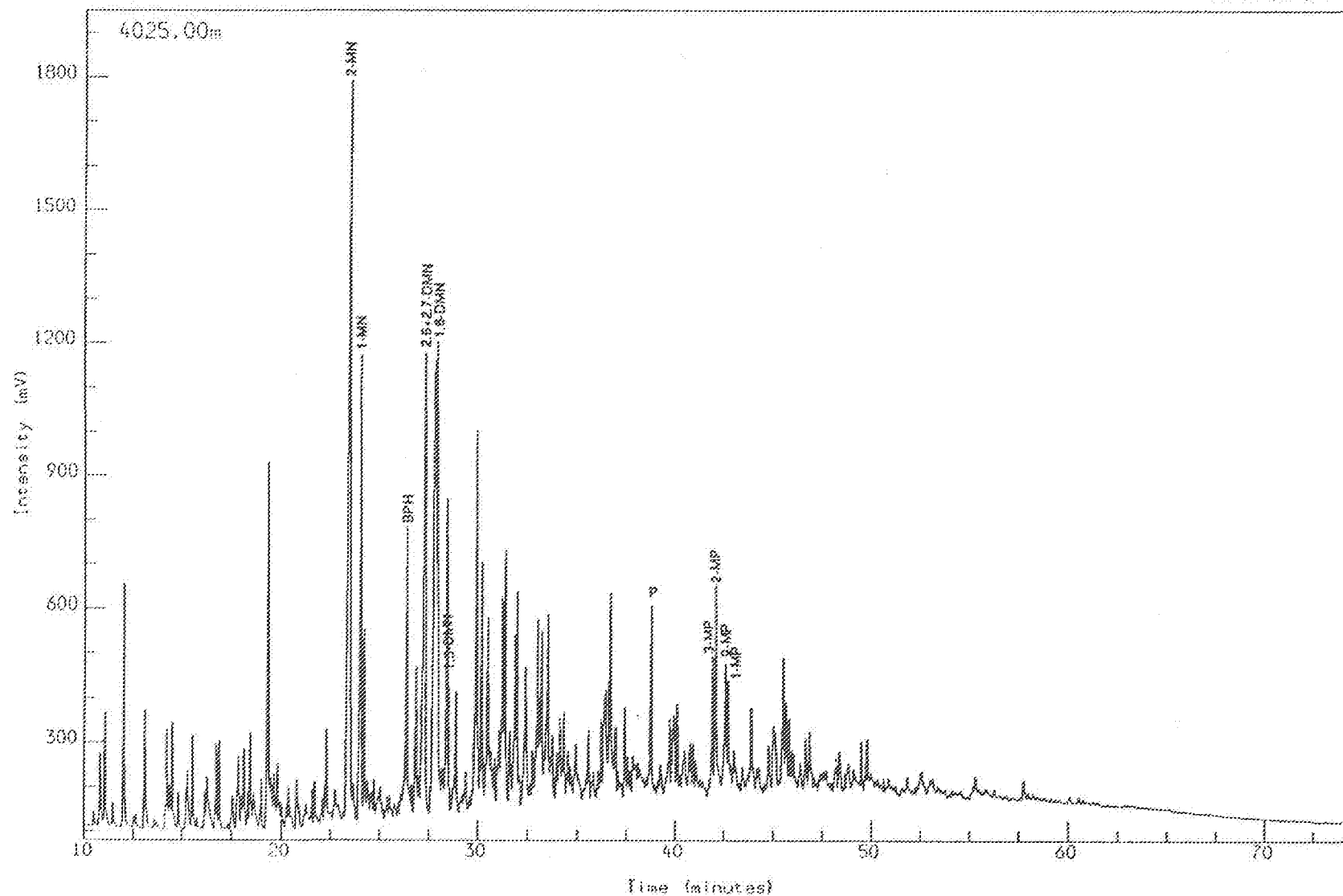
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AH4700610B.8.1.

Multichrom



WELL NOES 34/10-35 4015-4025m
AROMATIC BC (FID)

Reported on 24-SEP-1992 at 15.31

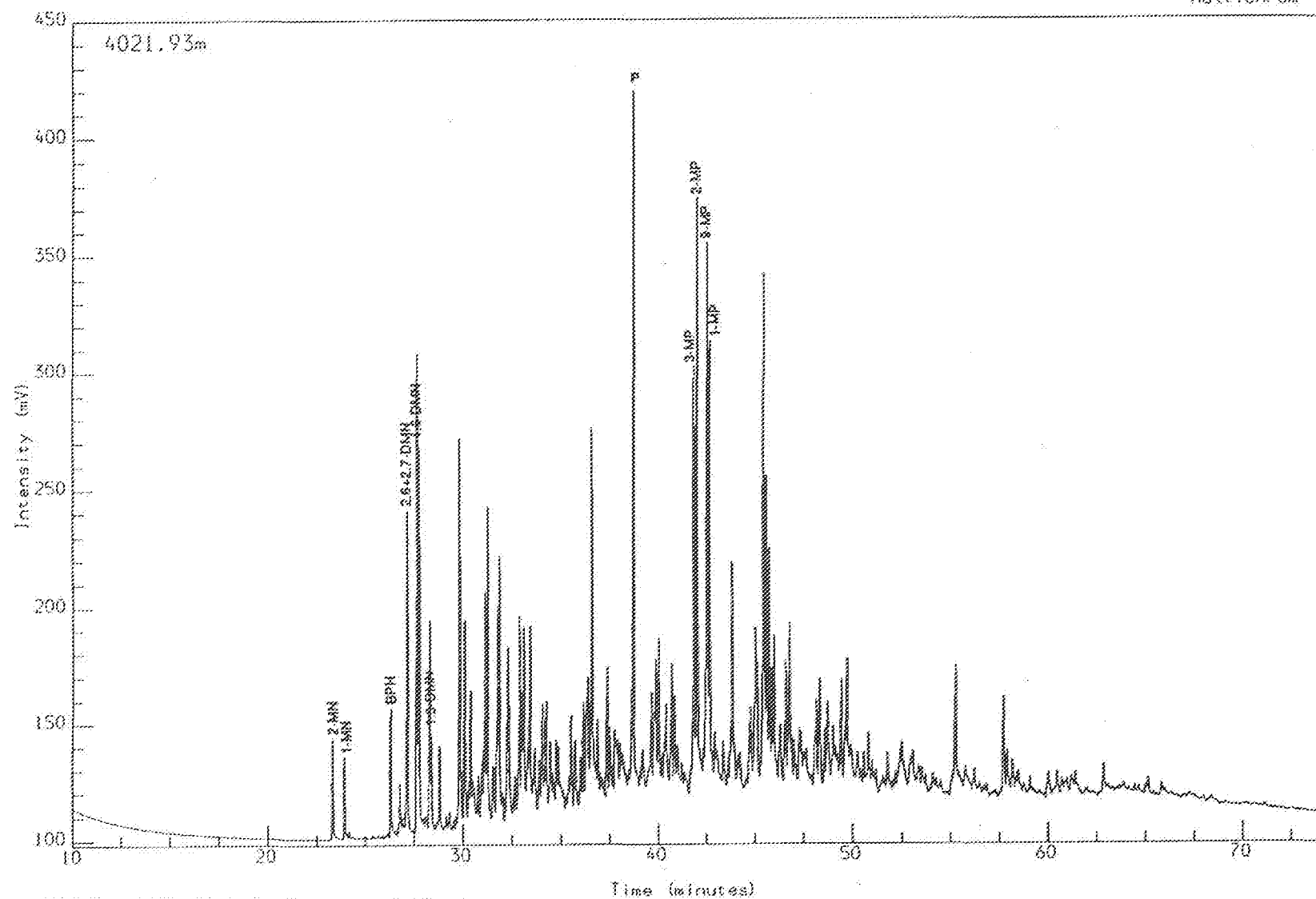
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AG3403581L,10,1.

Multichrom



WELL NOCS 34/10-35

4021.93m ccp

AROMATIC GC (FID)

Sh/Clat: brn gy

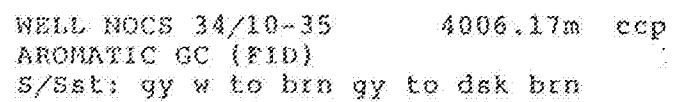
Reported on 31-AUG-1992 at 05:24

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Multi chrom

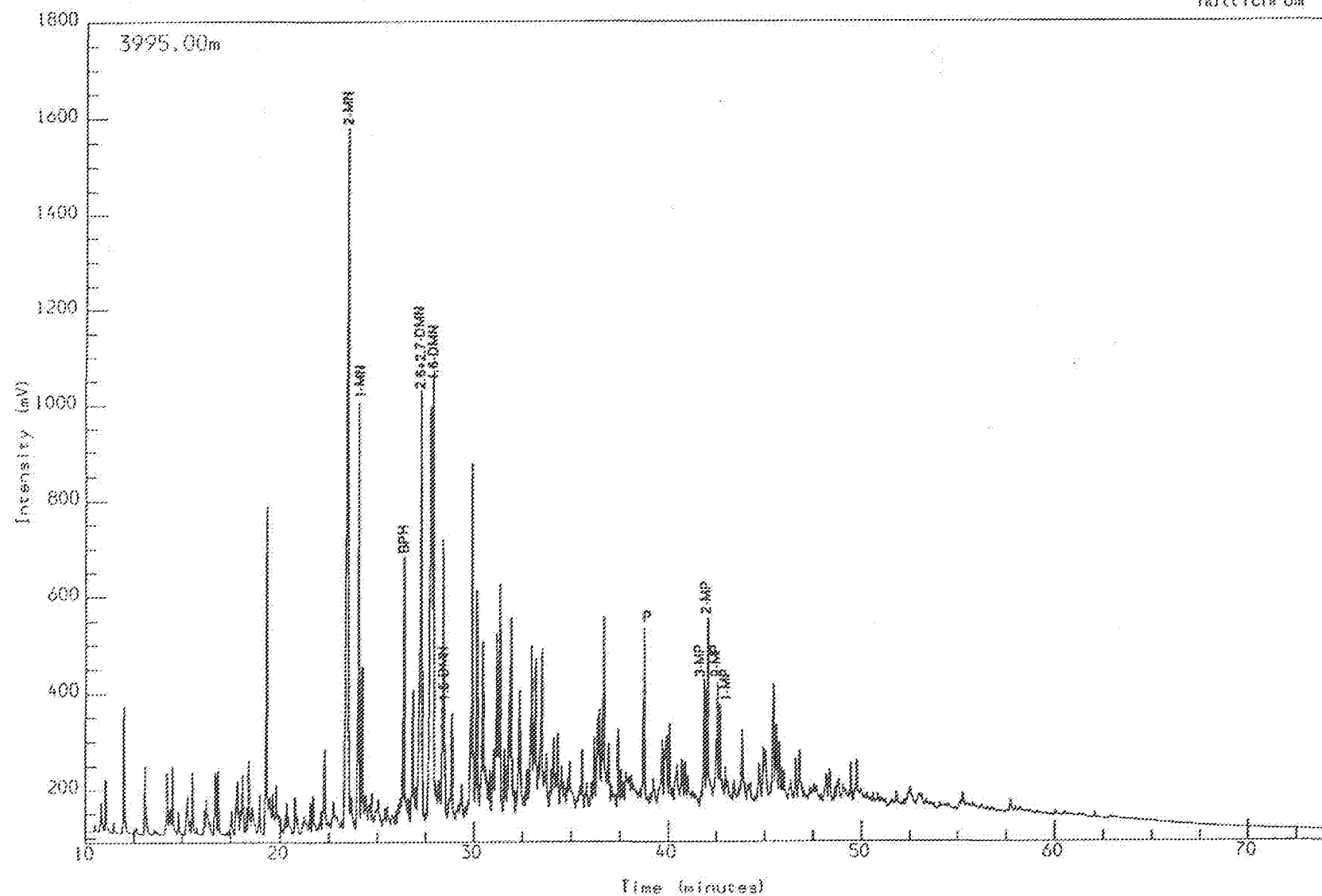


Schlumberger **GECO-PRAKLA**

GEOLAB/NOR

Analysis Name : [526265] 29 RH4700610B,4,1.

Multichrom



WELL NOES 34/10-35 3984-3995m
AROMATIC GC (FID)

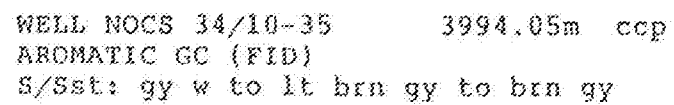
Reported on 31-AUG-1992 at 10:13

Schlumberger

GECO-PRAKLA

GEOLAB NOR

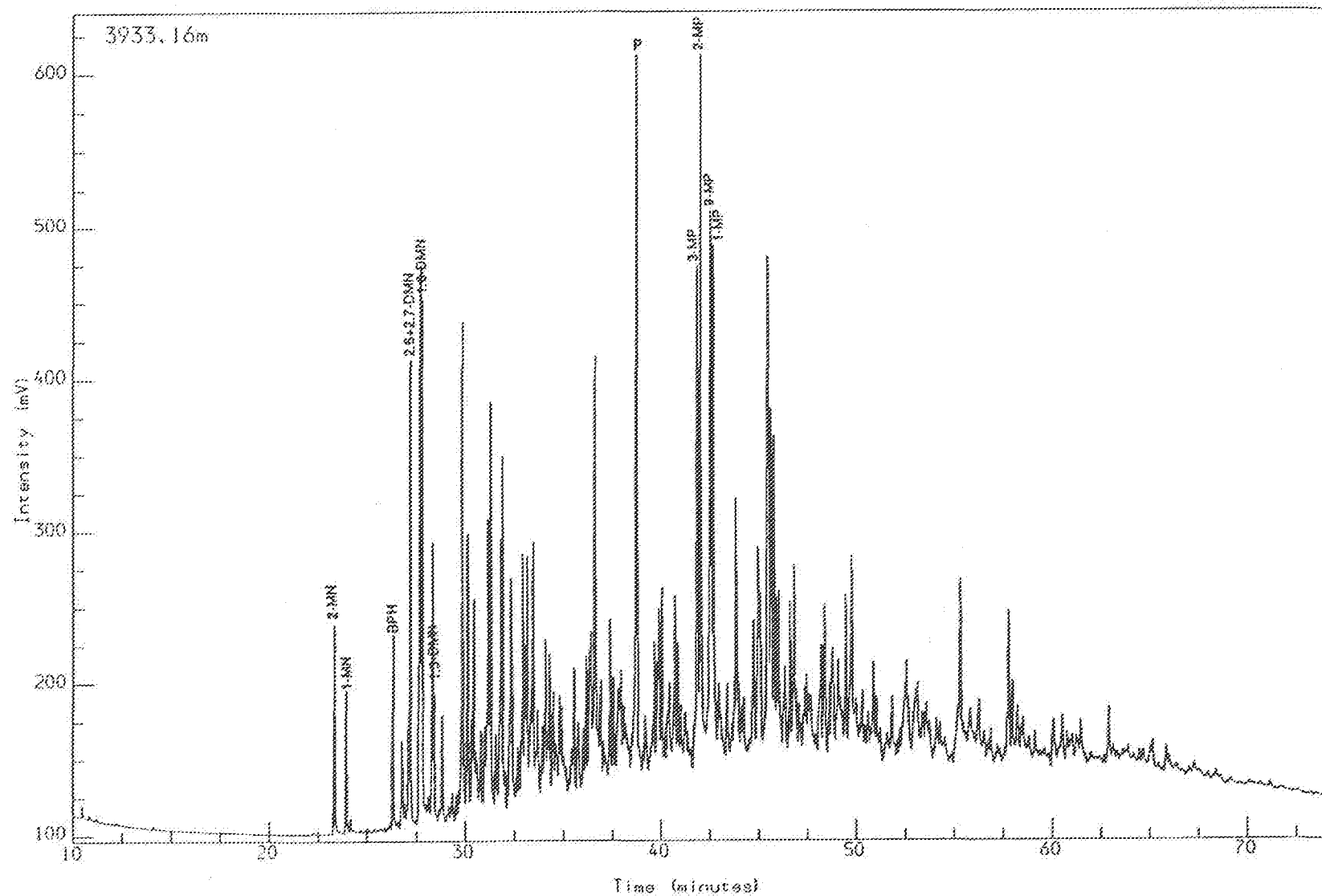
Multi chrom



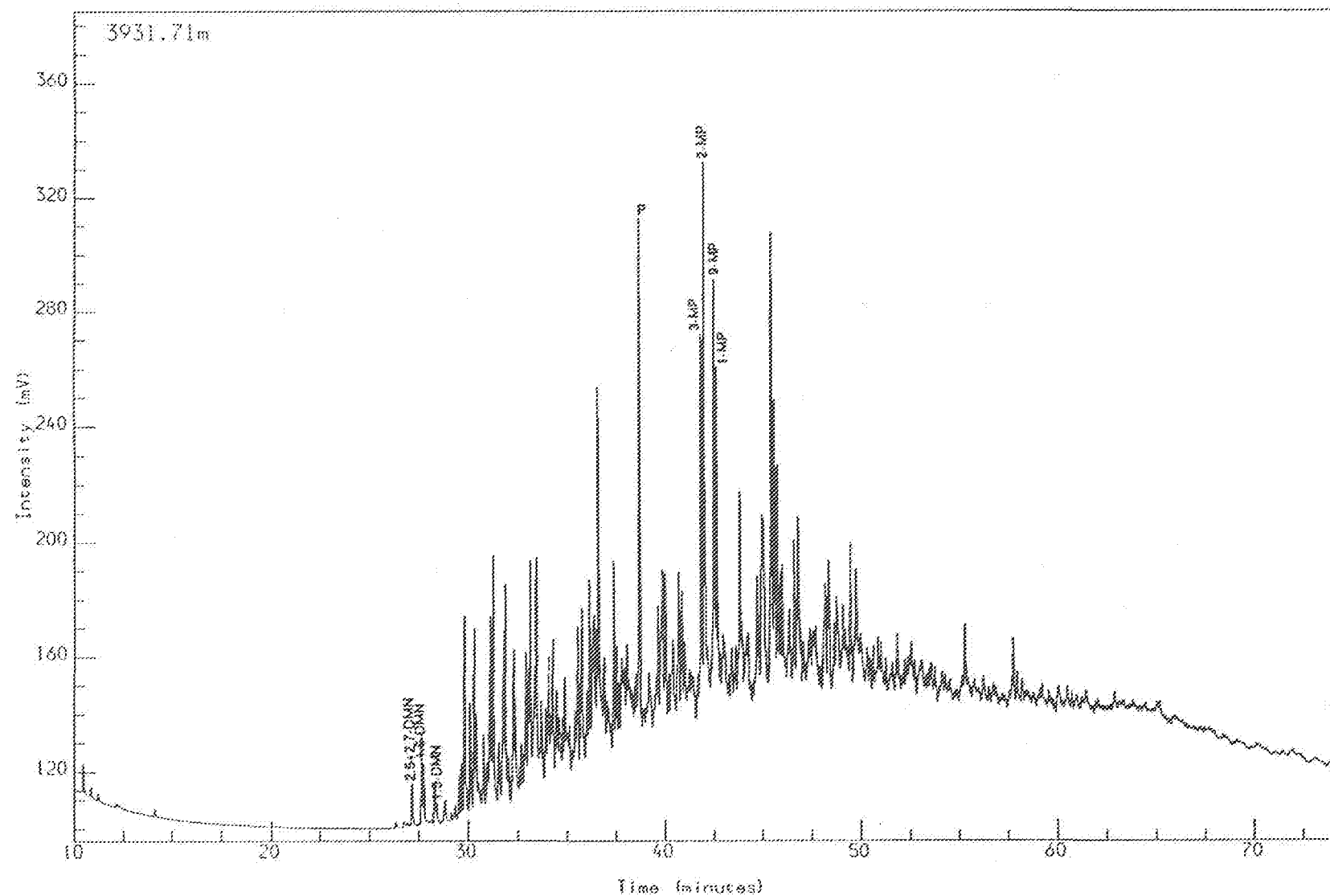
Schlumberger **GECO-PRAKLA**

GEOLAR22NOR

Multichrom



Reported on 31-AUG-1992 at 05:17



WELL NOCS 34/10-35
AROMATIC GC (FID)
S/Sst: pl y brn

3931.71m ccp

Reported on 31-AUG-1992 at 05:15

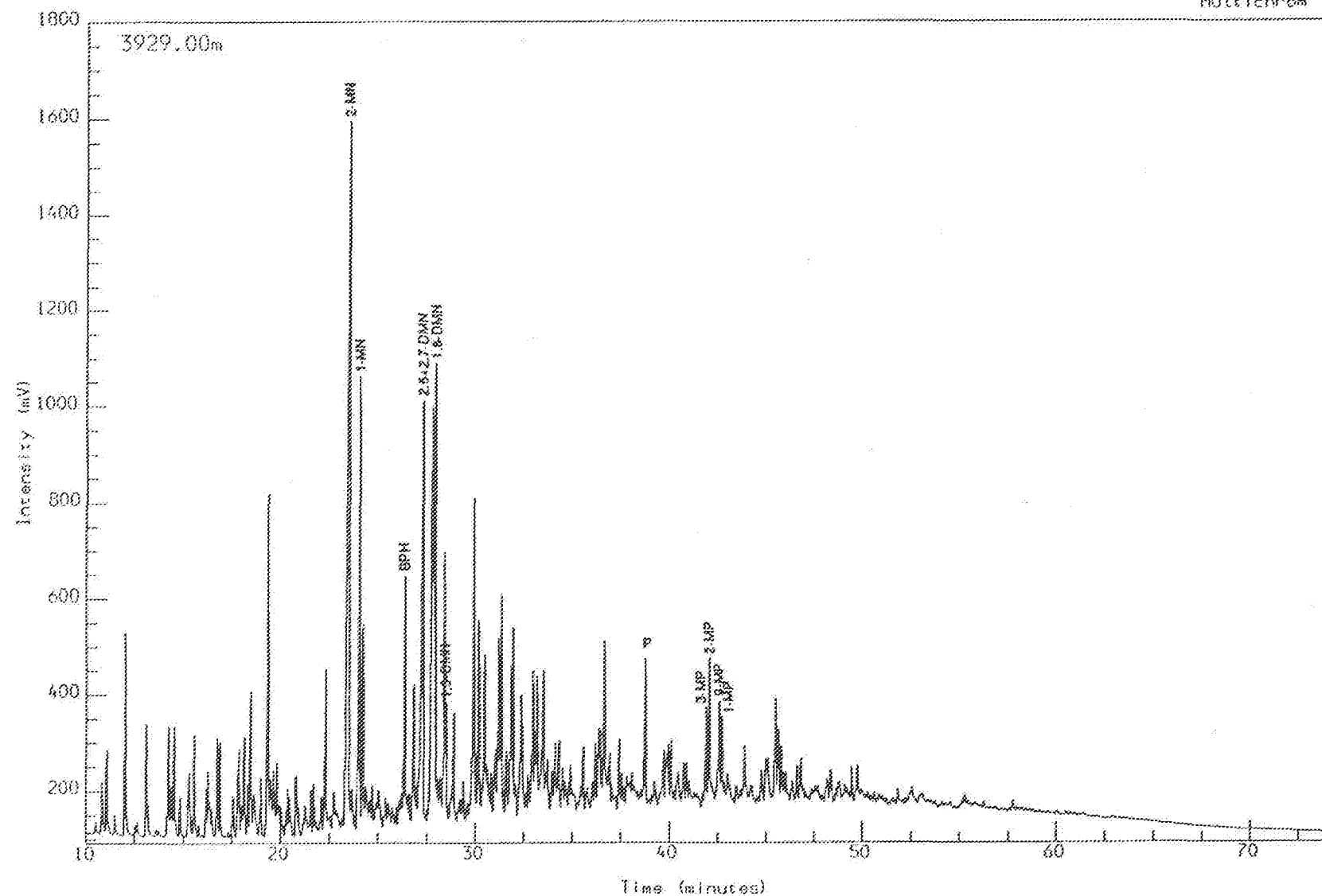
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AH4700610B,3,1.

Multichrom



WELL NOCS 34/10-35 3920-3929m
AROMATIC GC (FID)

Reported on 31-AUG-1992 at 10:11

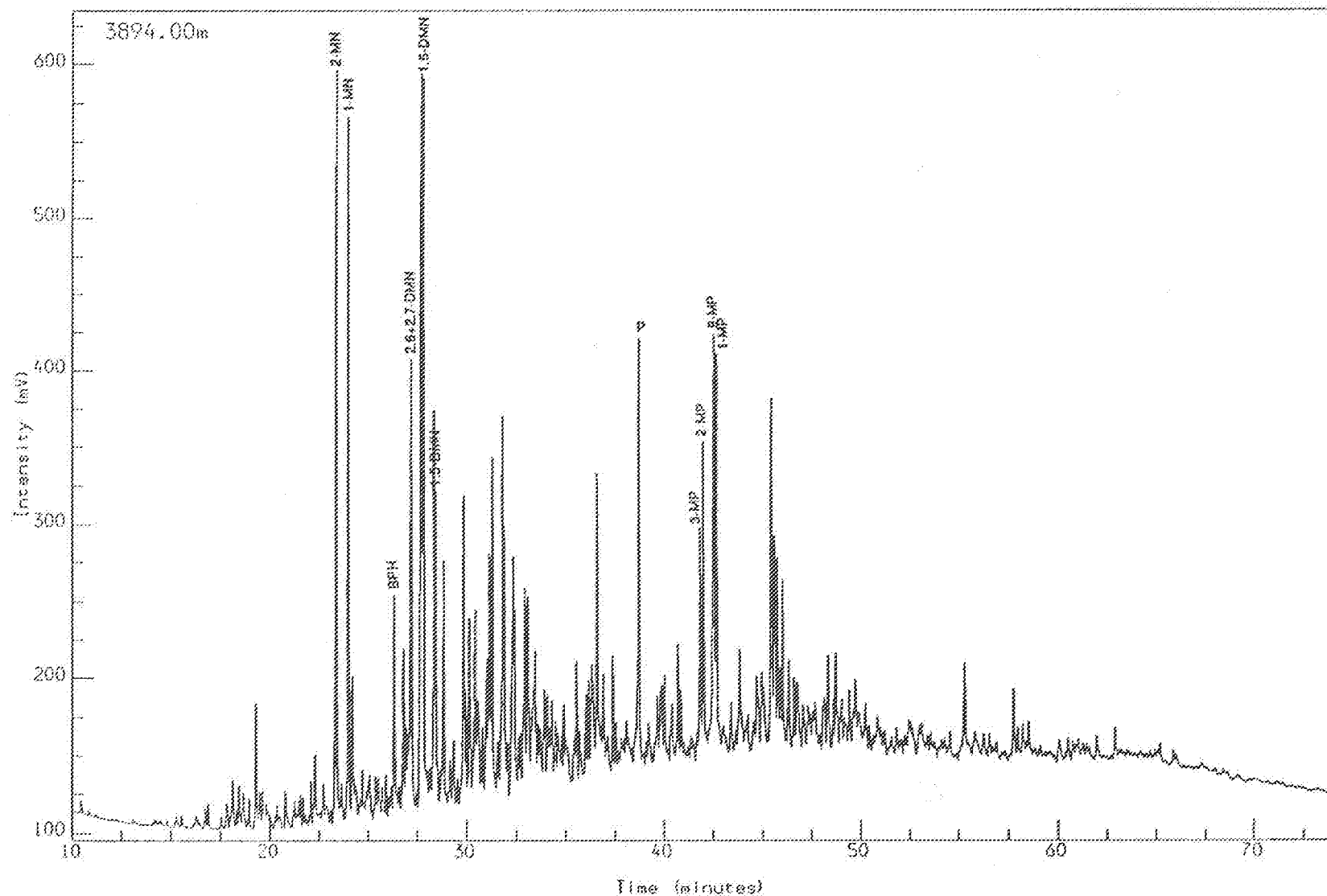
Schlumberger

GECO-PRAKLA

GEOLAB NOR

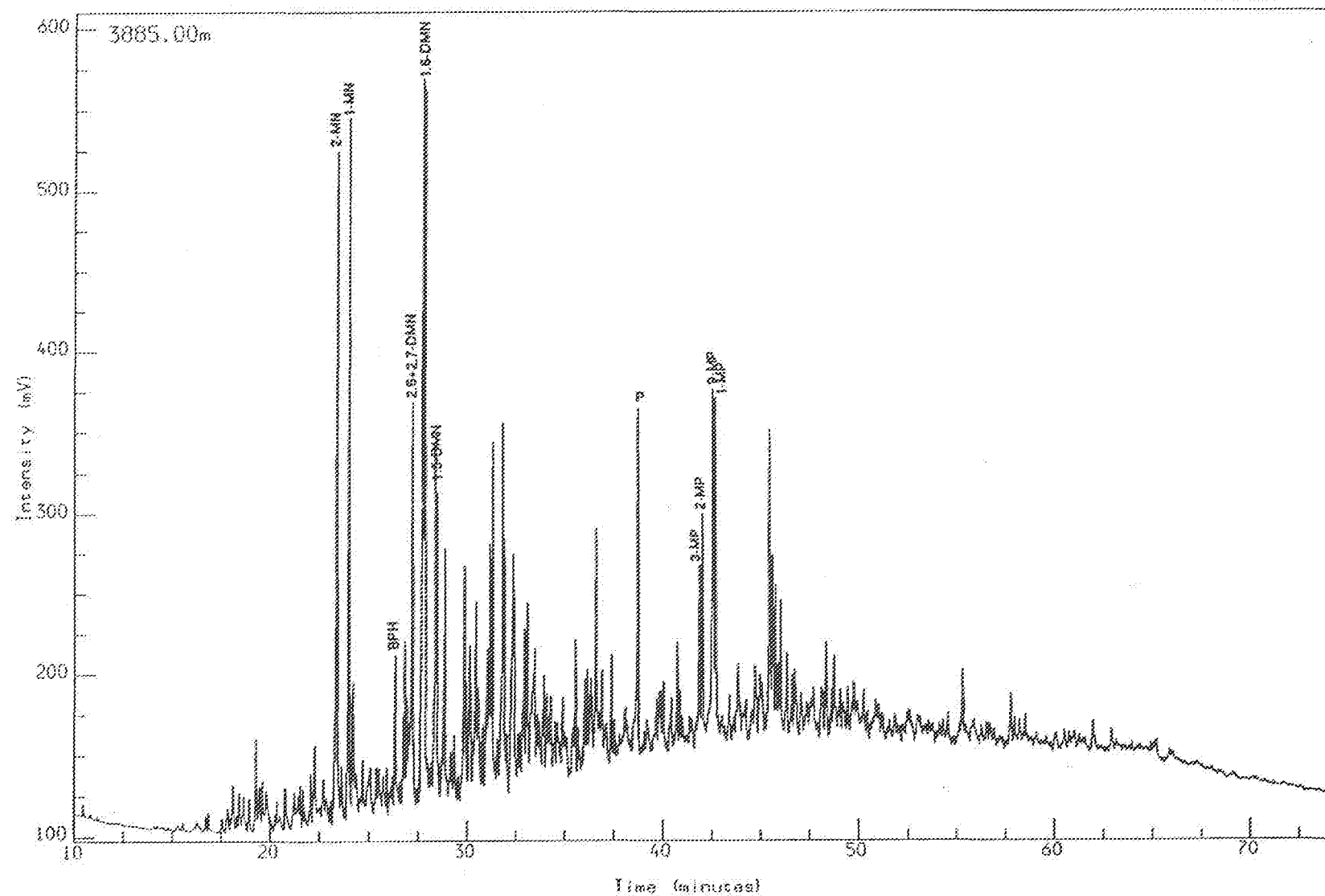
Analysis Name : [526265] 29 AH4700572L.3.1.

Multichrom



Analysis Name : [526265] 29 RH4700572L.2.1.

Multichrom



WELL NOCS 34/10-35 3885.00m cut
AROMATIC GC (FID)
Sh/Clst: m gy to drk gy

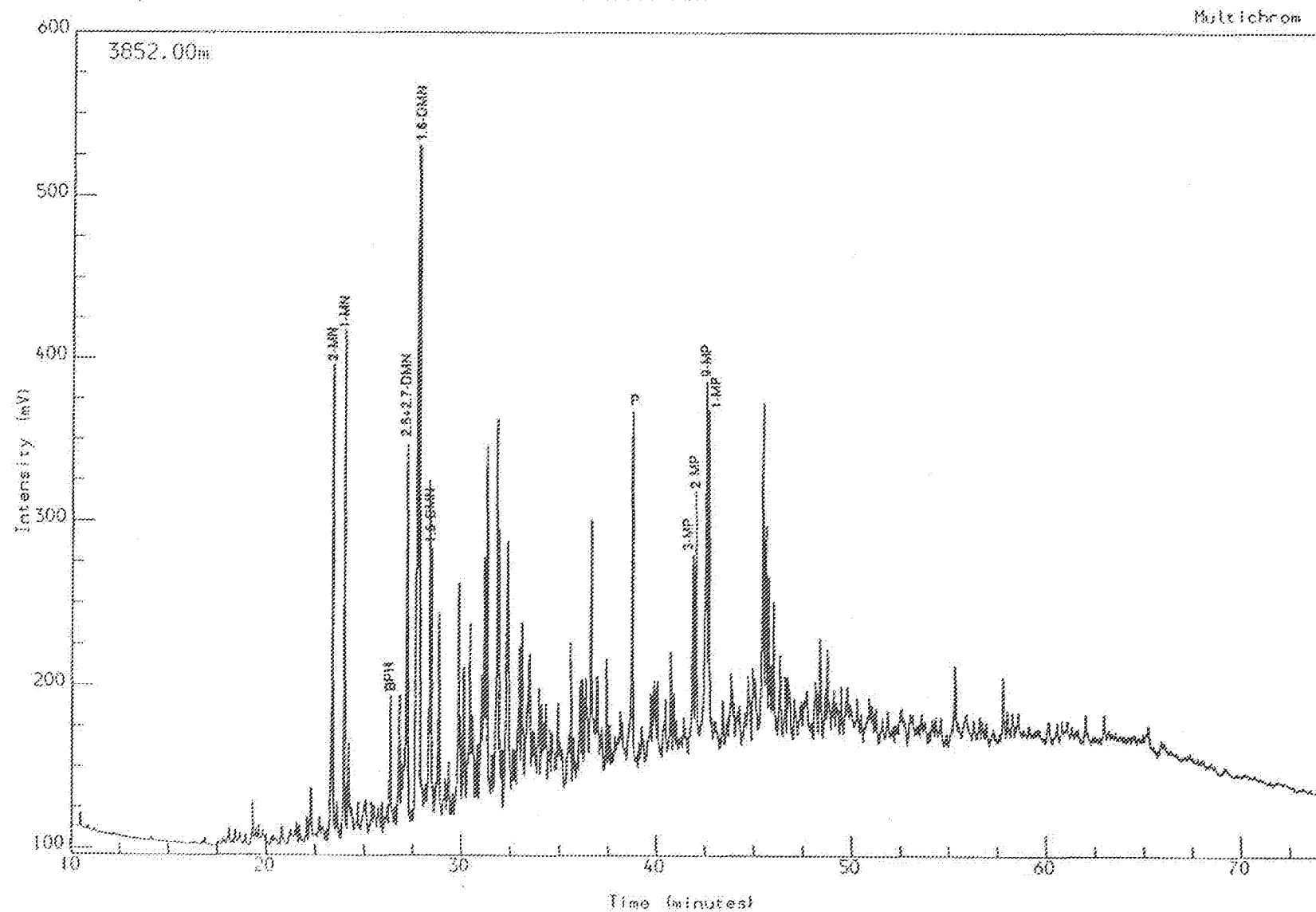
Reported on 23-SEP-1992 at 08:58

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AG3403581L.S.1.



WELL NOCS 34/10-35 3852.00m cut
AROMATIC GC (FID)
Sh/Clst: drk gy to brn blk

Reported on 31-AUG-1992 at 05.13

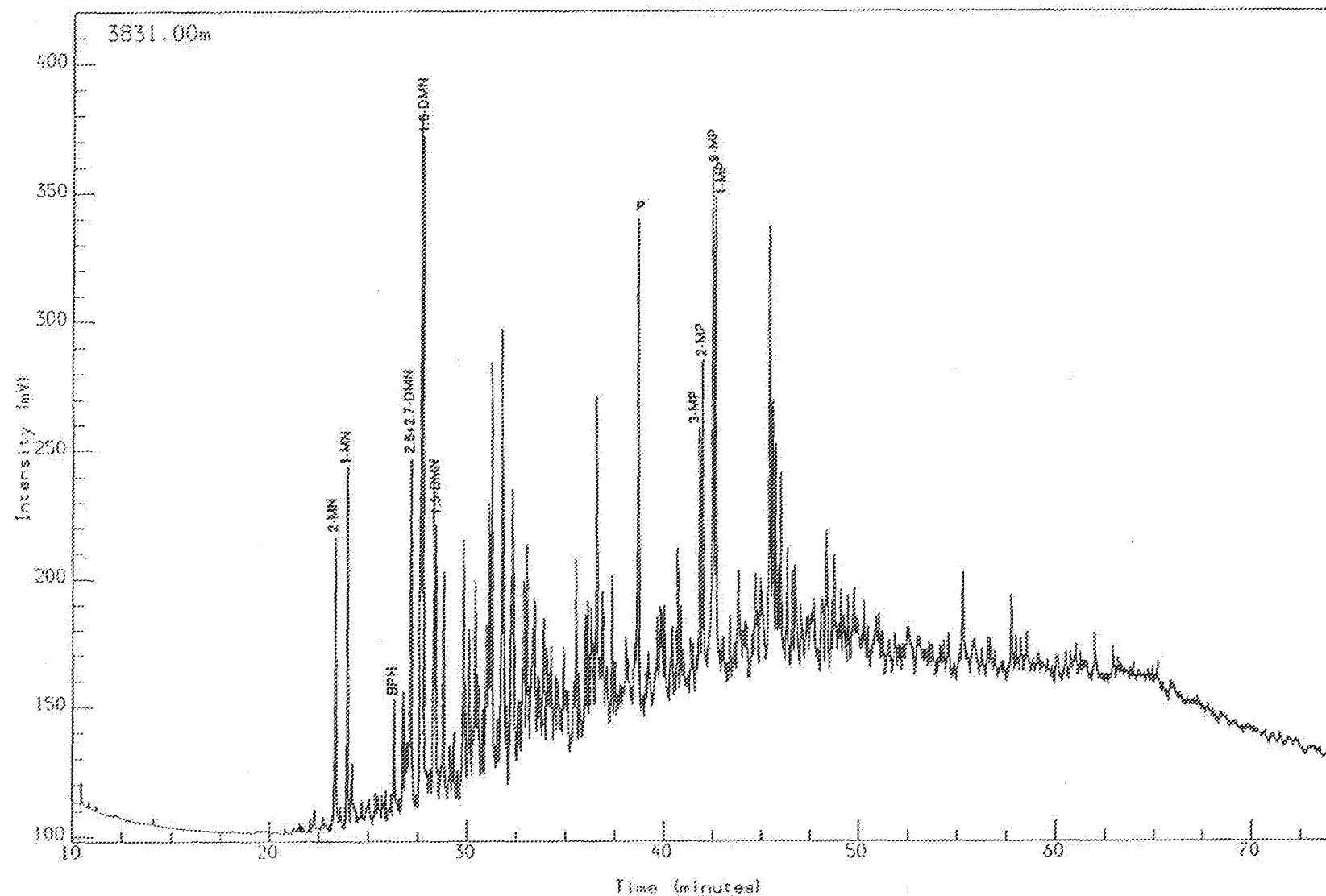
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 29 AG3403581L,4,1.

Multichrom



WELL NOCS 34/10-35

3831.00m cut

Reported on 31-AUG-1992 at 05:10

AROMATIC GC (FID)

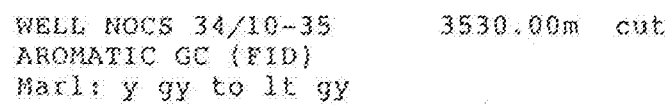
Sh/Clst: m gy to drk gy

Schlumberger

GECO-PRAKLA

GEOLAB NOR

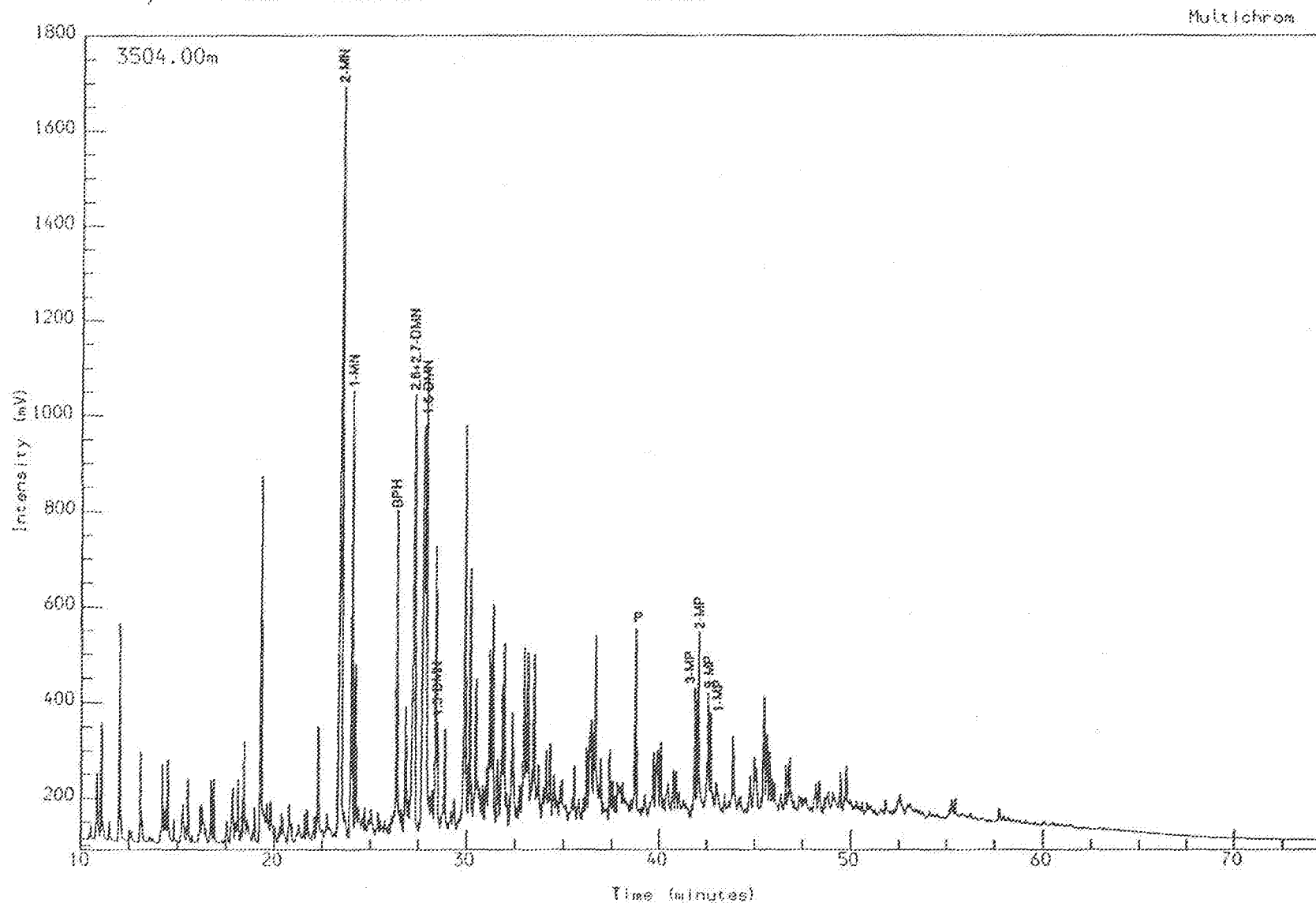
Multichrom



Schlumberger **GECO-PRAKLA**

GEOLAB NOR

Analysis Name : [526265] 29 AH47006108.2.1.



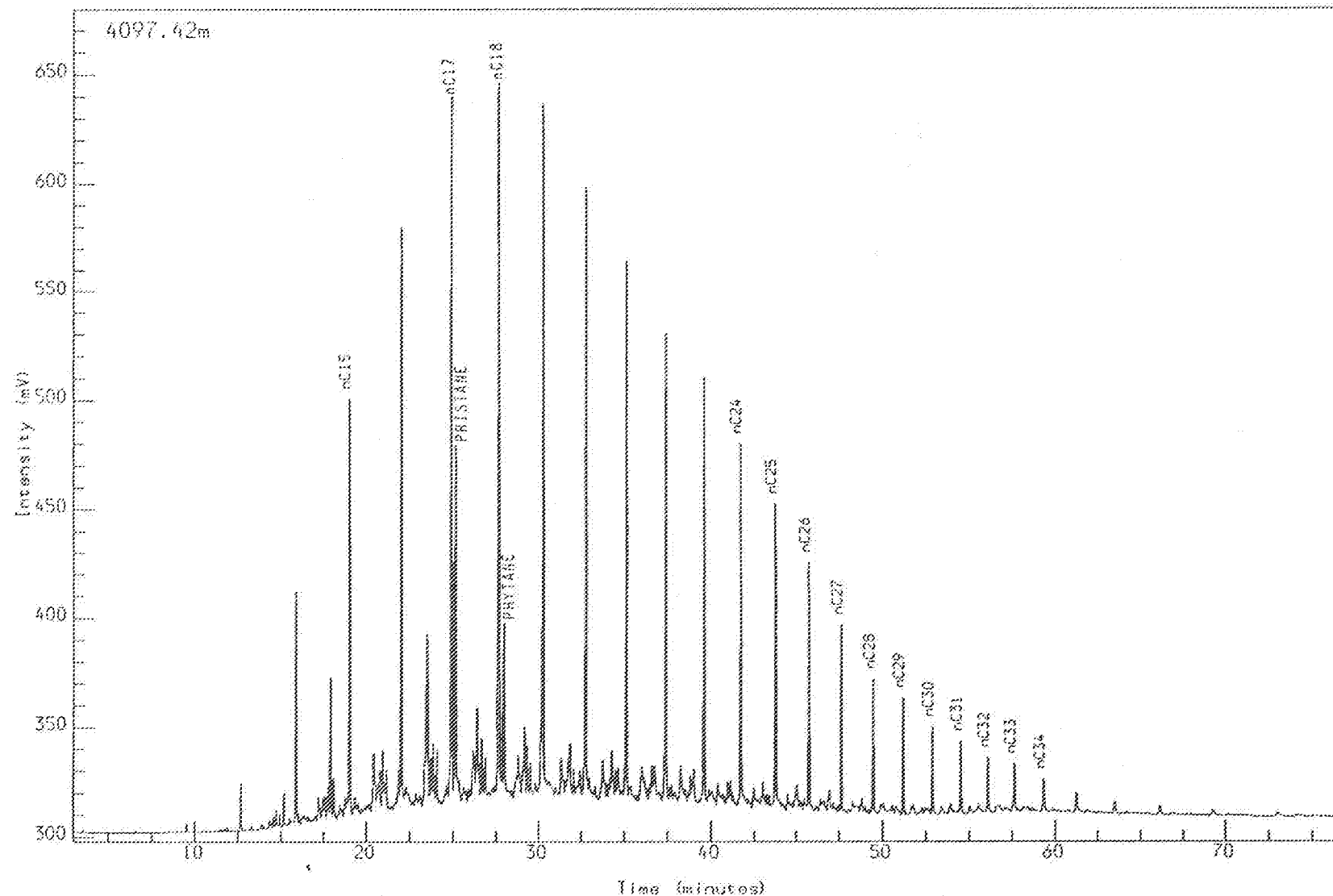
WELL NUES 34710-35 3496-3504m
AROMATIC GC (FID)

Reported on 31-AUG-1992 at 10:08

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 34/10-23 4097.42m ccp
 SATURATED GC
 S/Sst: lt gy to brn gy to pl brn

Reported on 23-SEP-1992 at 09:31

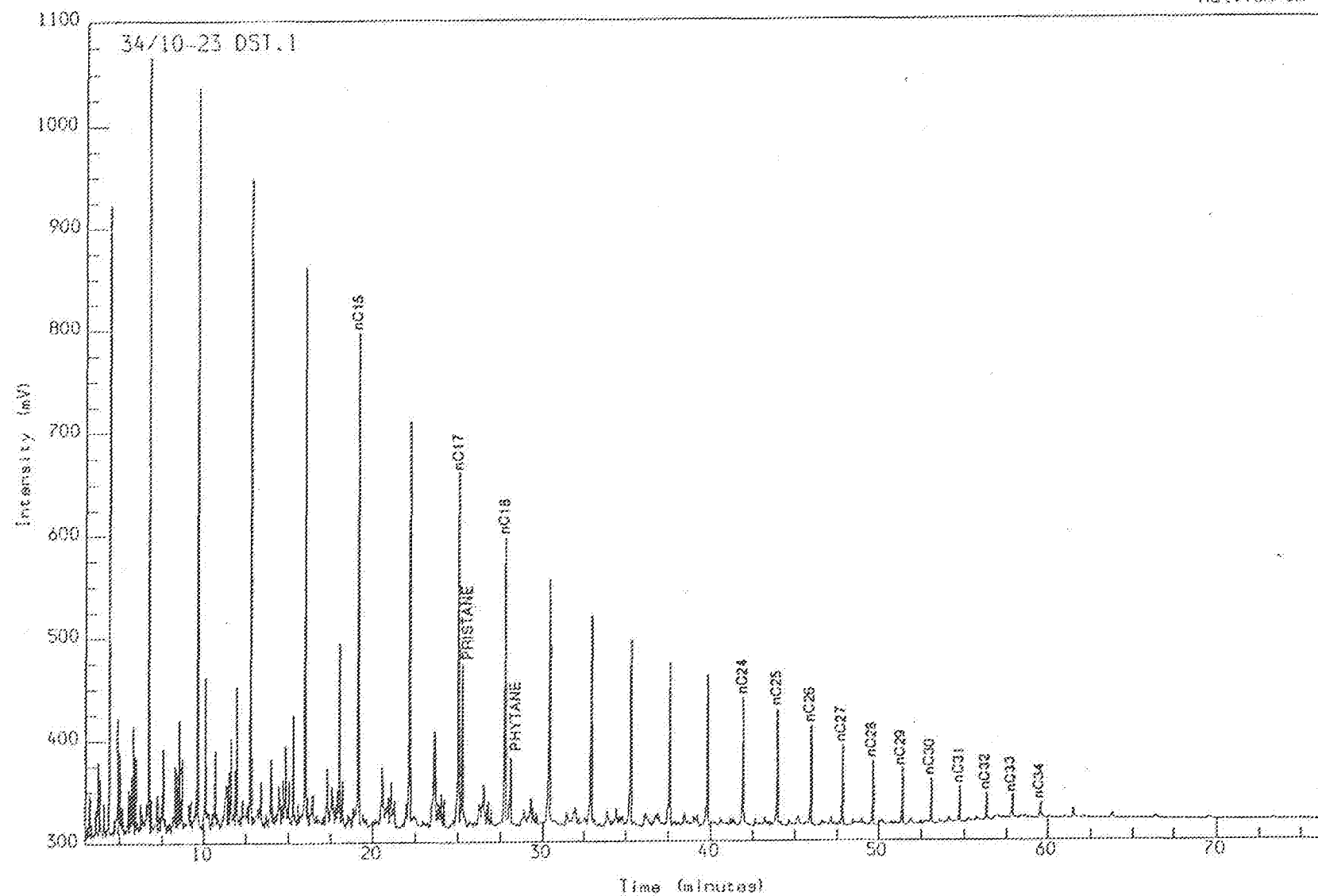
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] S SG34036208B.2.1.

Multichrom



WELL 34/10-23
SATURATED GC

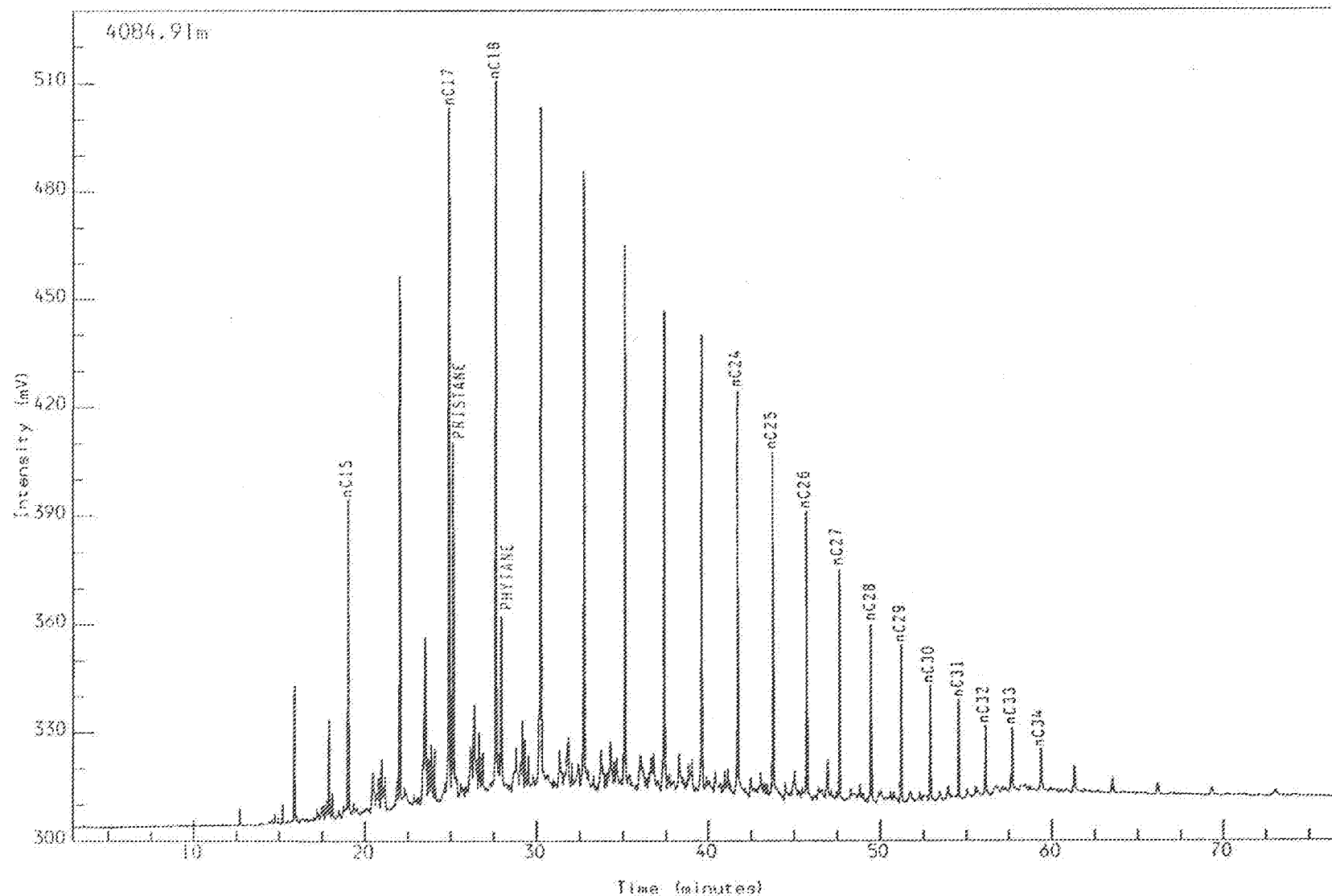
DST.1

Reported on 4-DEC-1992 at 08:26

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 34/10-23 4084.91m ccg
 SATURATED GC
 S/Sst: 1t gy to 1t brn gy

Reported on 21-SEP-1992 at 14.56

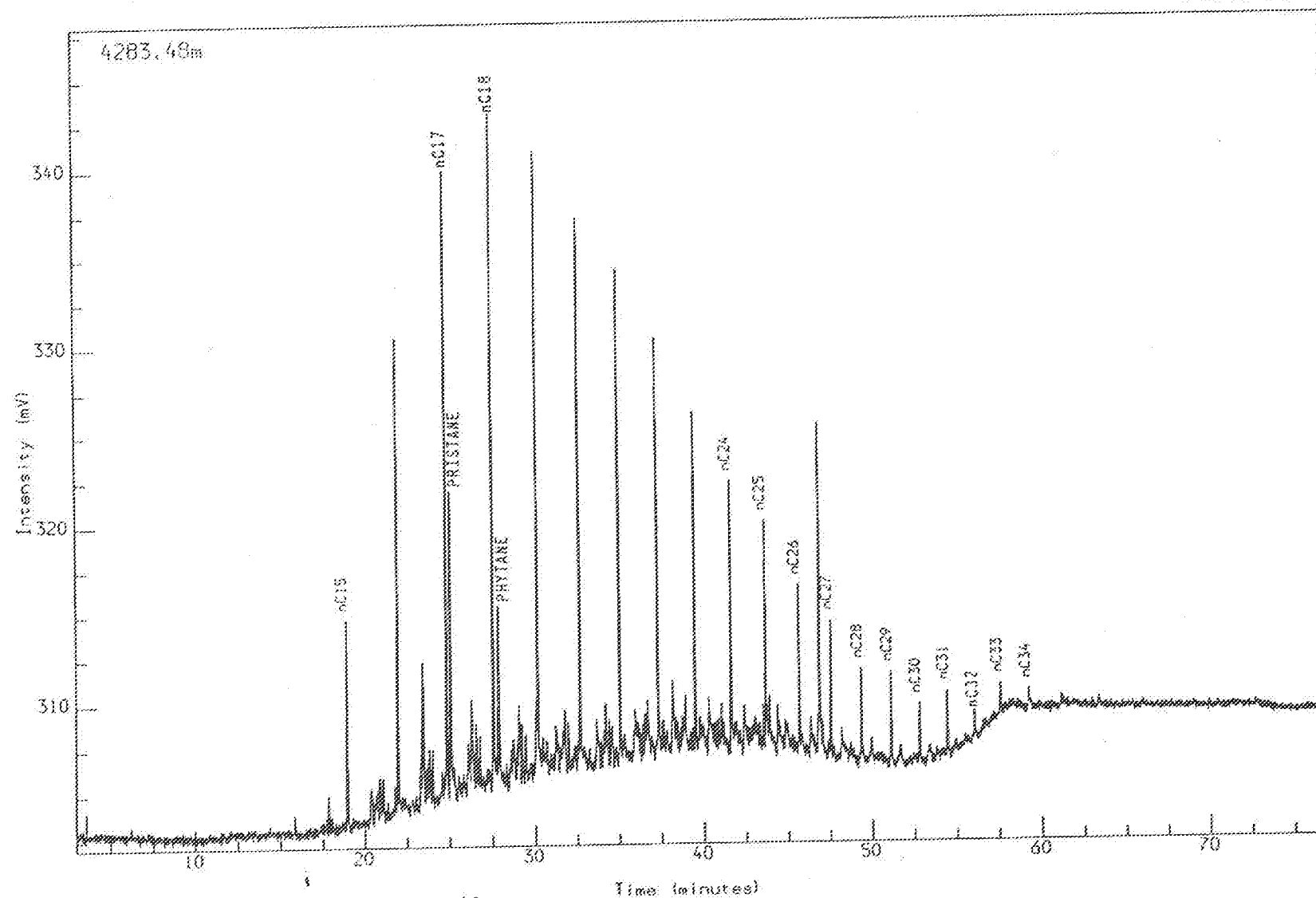
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L,13,1.

Multichrom



WELL NOCS 34/10-35 4283.48m ccp
SATURATED GC
S/Sst: 1t gy w to 1t gy

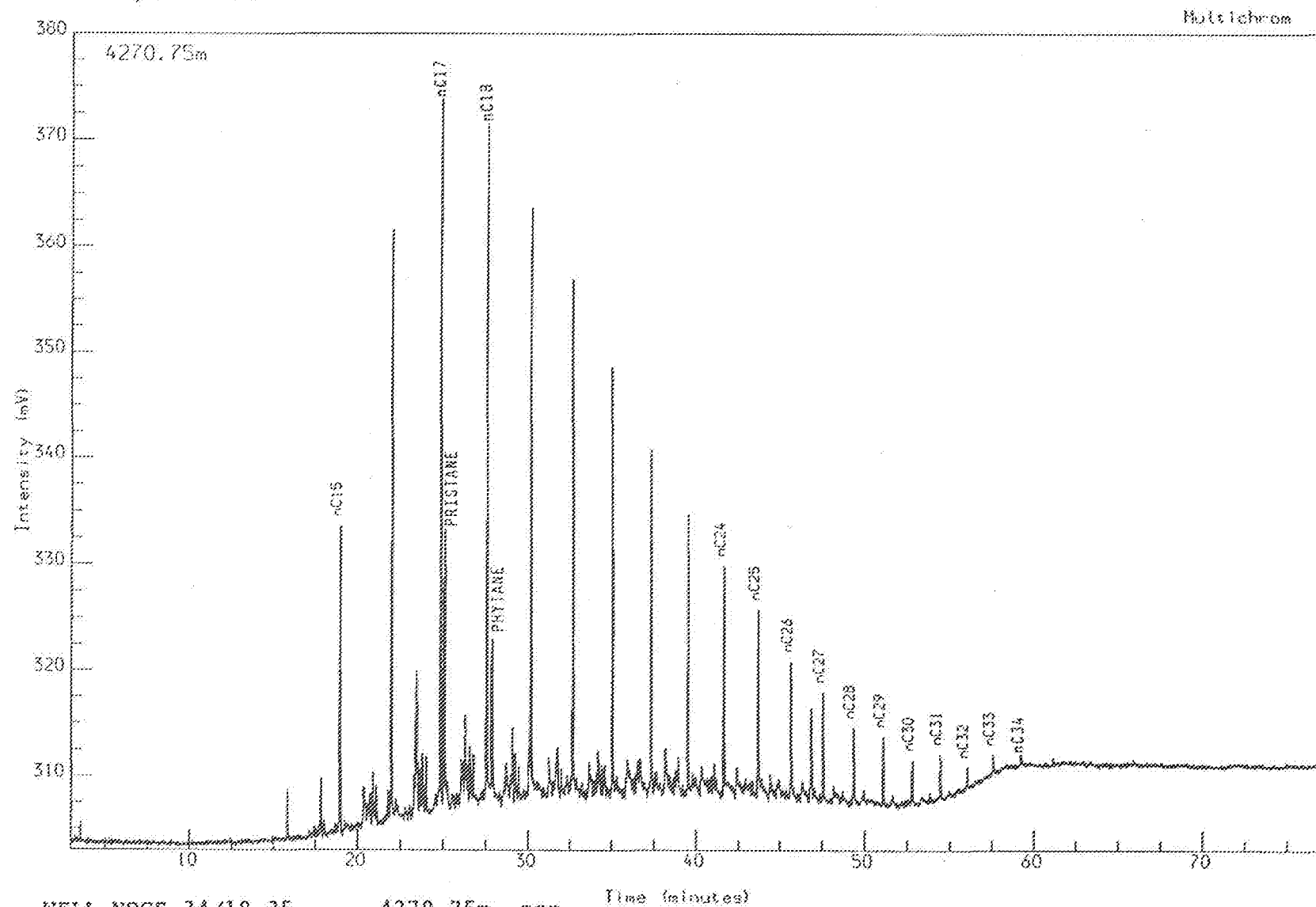
Reported on 23-SEP-1992 at 12:14

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.12.1.



WELL NOCS 34/10-35

4270.75m ccp

SATURATED GC

S/Sat: 1t gy w to 1t gy

Reported on 31-AUG-1992 at 01:02

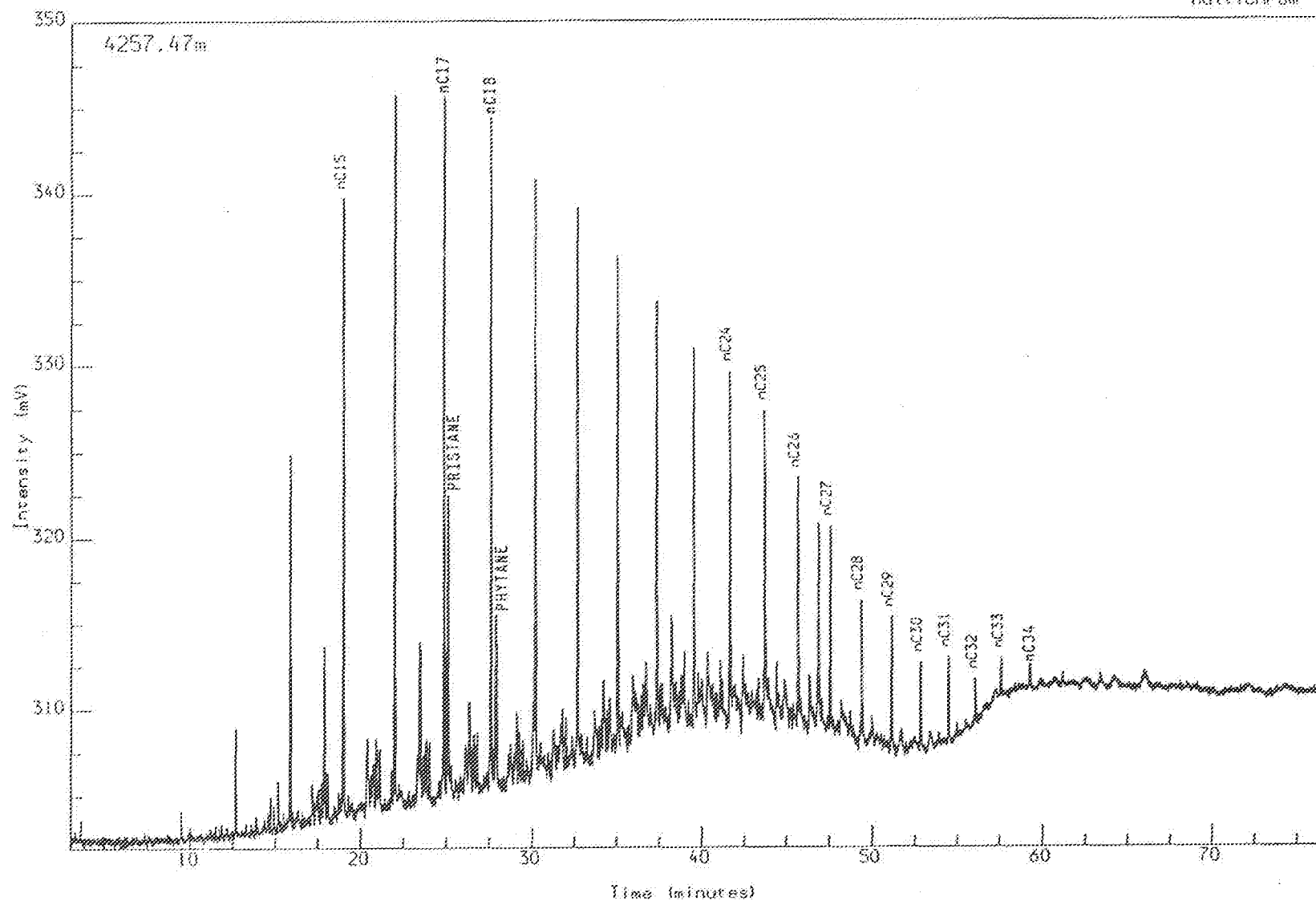
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.11.1.

Multichrom



WELL NOCS 34/10-35 4257.47m ccp
SATURATED GC
S/Sst: lt gy w to lt brn gy

Reported on 31-AUG-1992 at 00:59

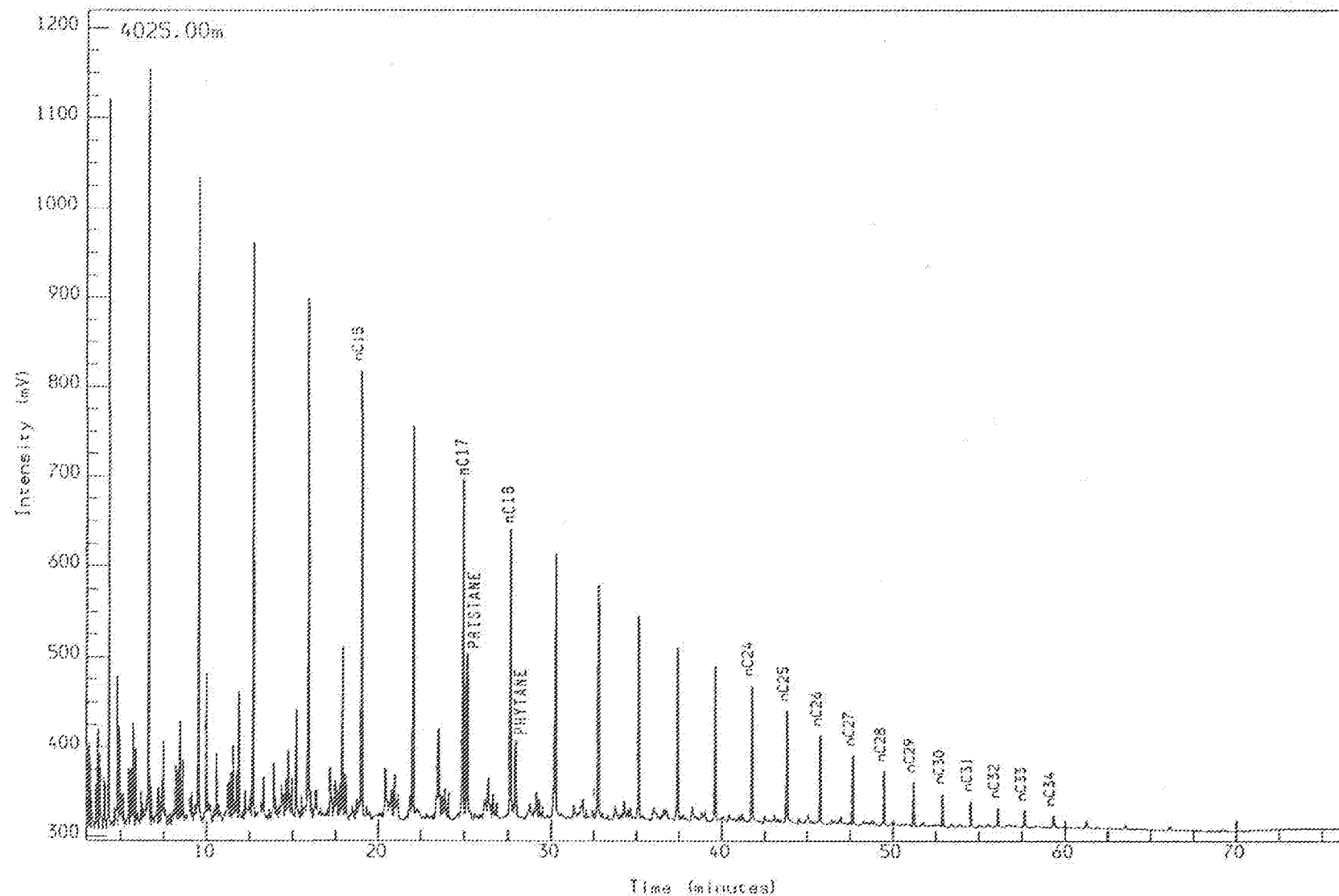
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SH4700610B.5.1.

Multichrom



WELL NDCS 34/10-35 4015-4025m
SATURATED GC

Reported on 31-AUG-1992 at 10:05

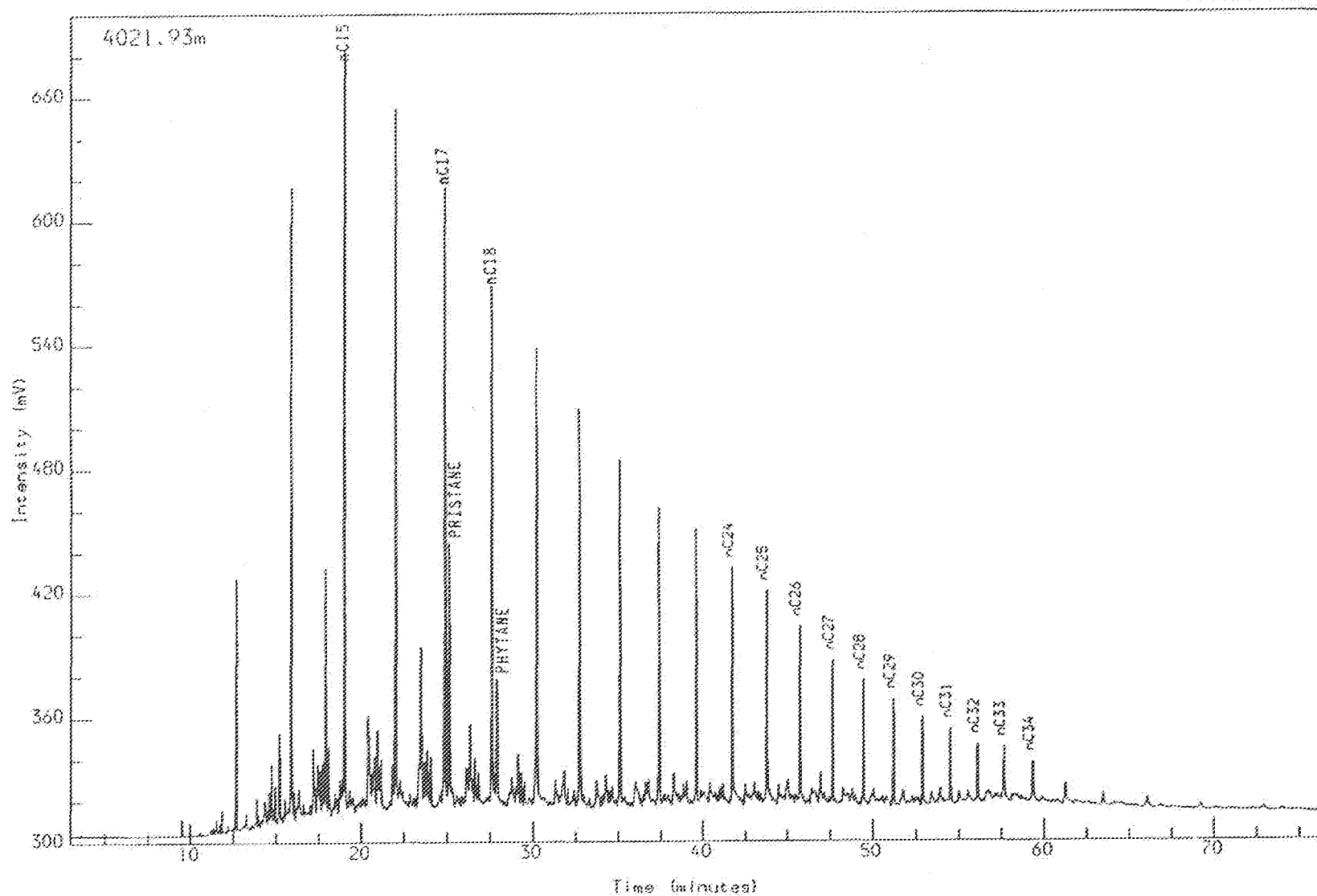
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG340358IL.10.1.

Multichrom



WELL NOCS 34/10-35

4021.93m cop

Reported on 31-AUG-1992 at 00:57

SATURATED GC

Sh/Clst: brn gy

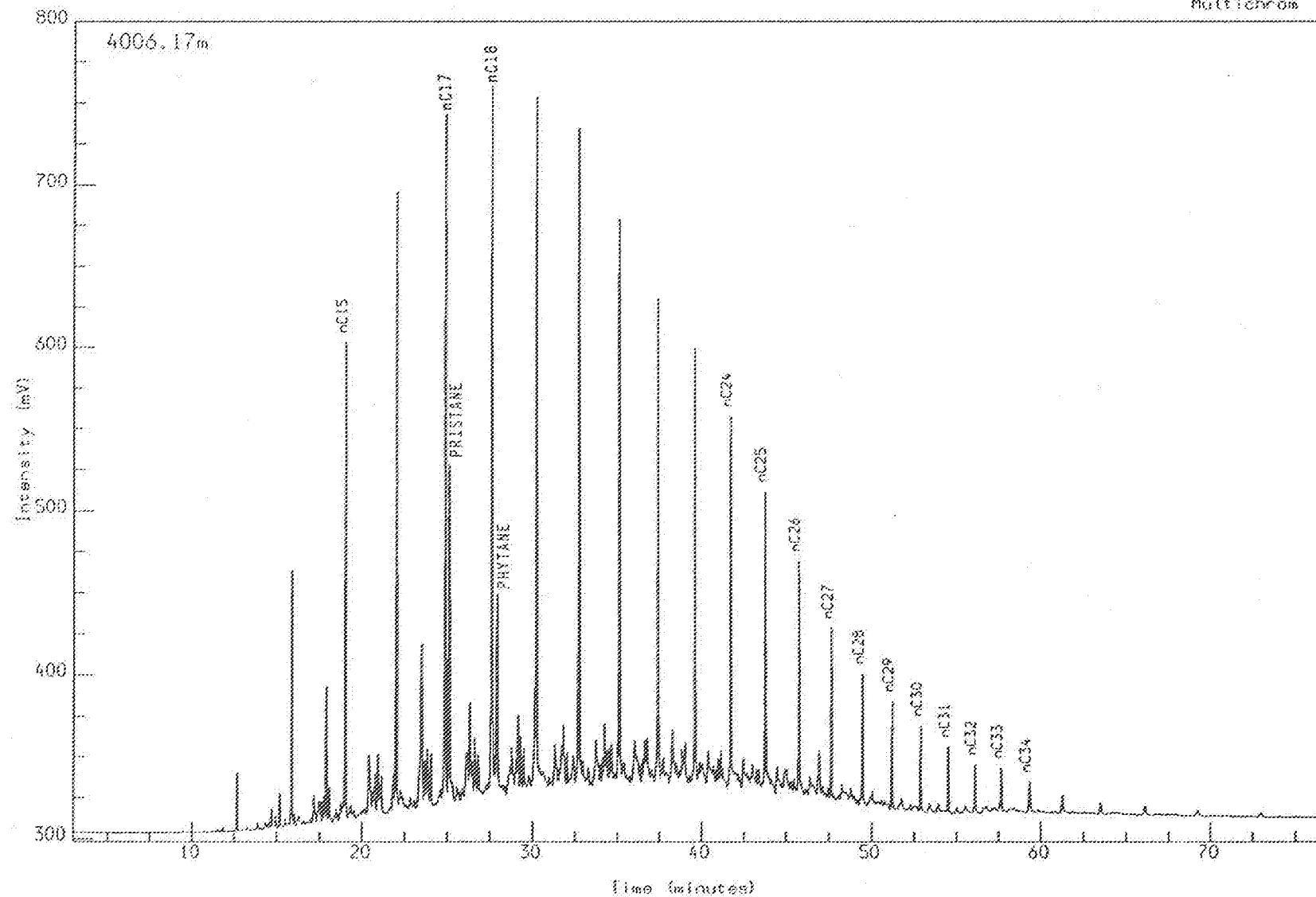
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.9.1.

Multichrom



WELL NOCS 34/10-35 4006.17m ccp
SATURATED GC
S/Sst: gy w to brn gy to dsk brn

Reported on 31-AUG-1992 at 00.54

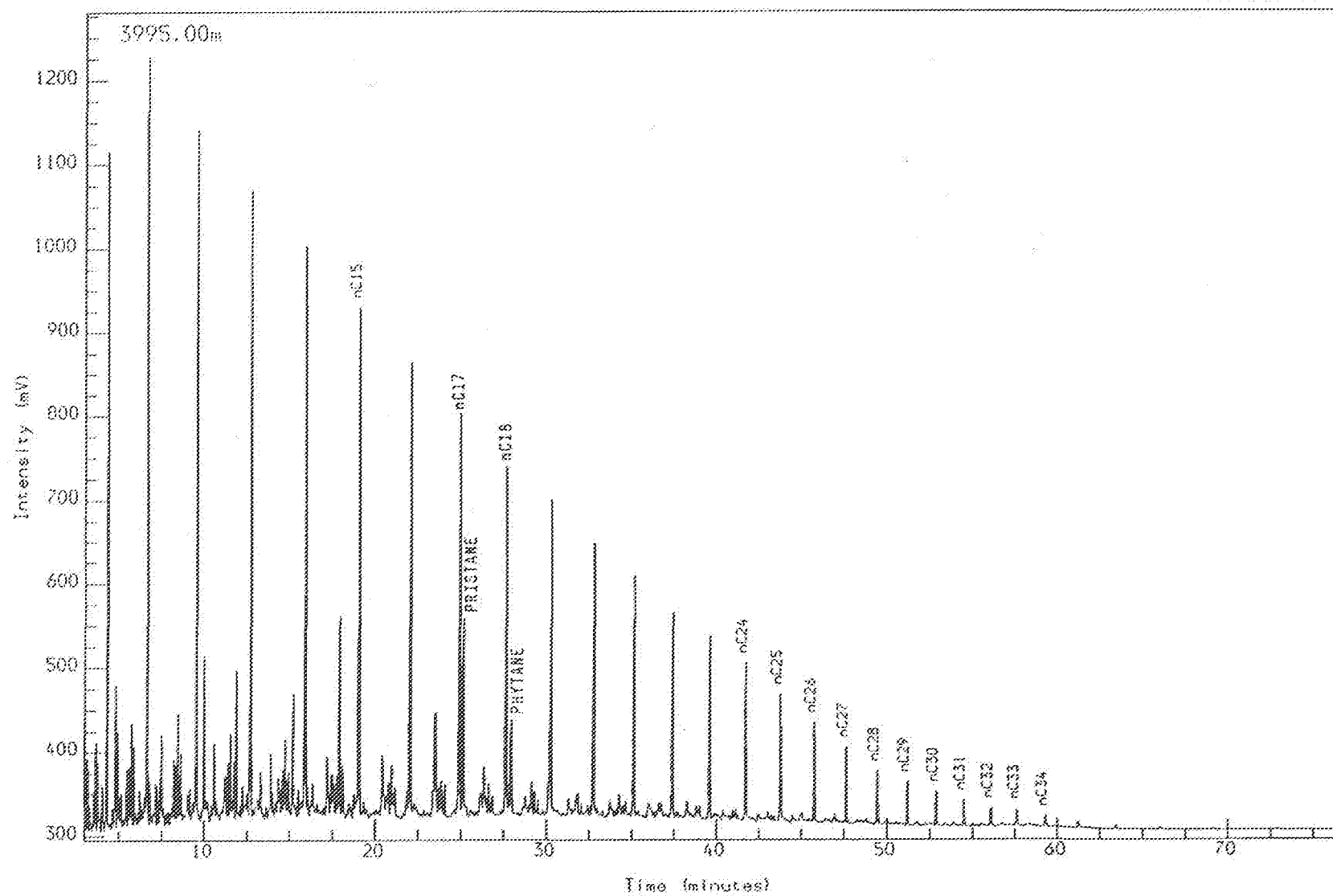
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SH4700610B.4.1.

Multichrom



WELL NOCS 34/10-35 3984-3995m
SATURATED GC

Reported on 31-AUG-1992 at 10:04

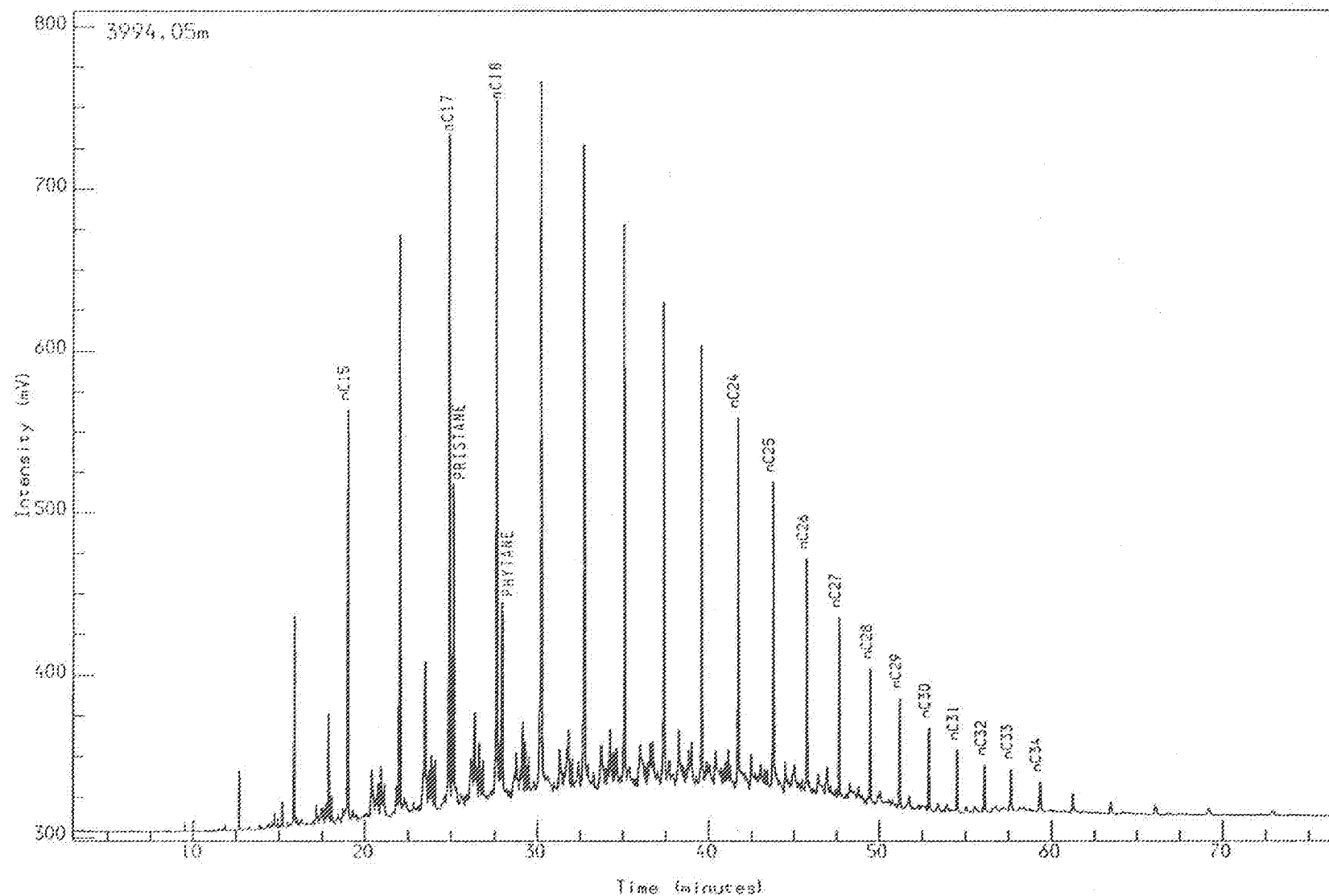
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 563403581L,8,1.

Multi Chrom



WELL NOCS 34/10-35 3994.05m ccp
SATURATED GC
S/Sst: gy w to lt brn gy to brn gy

Reported on 31-AUG-1992 at 00:51

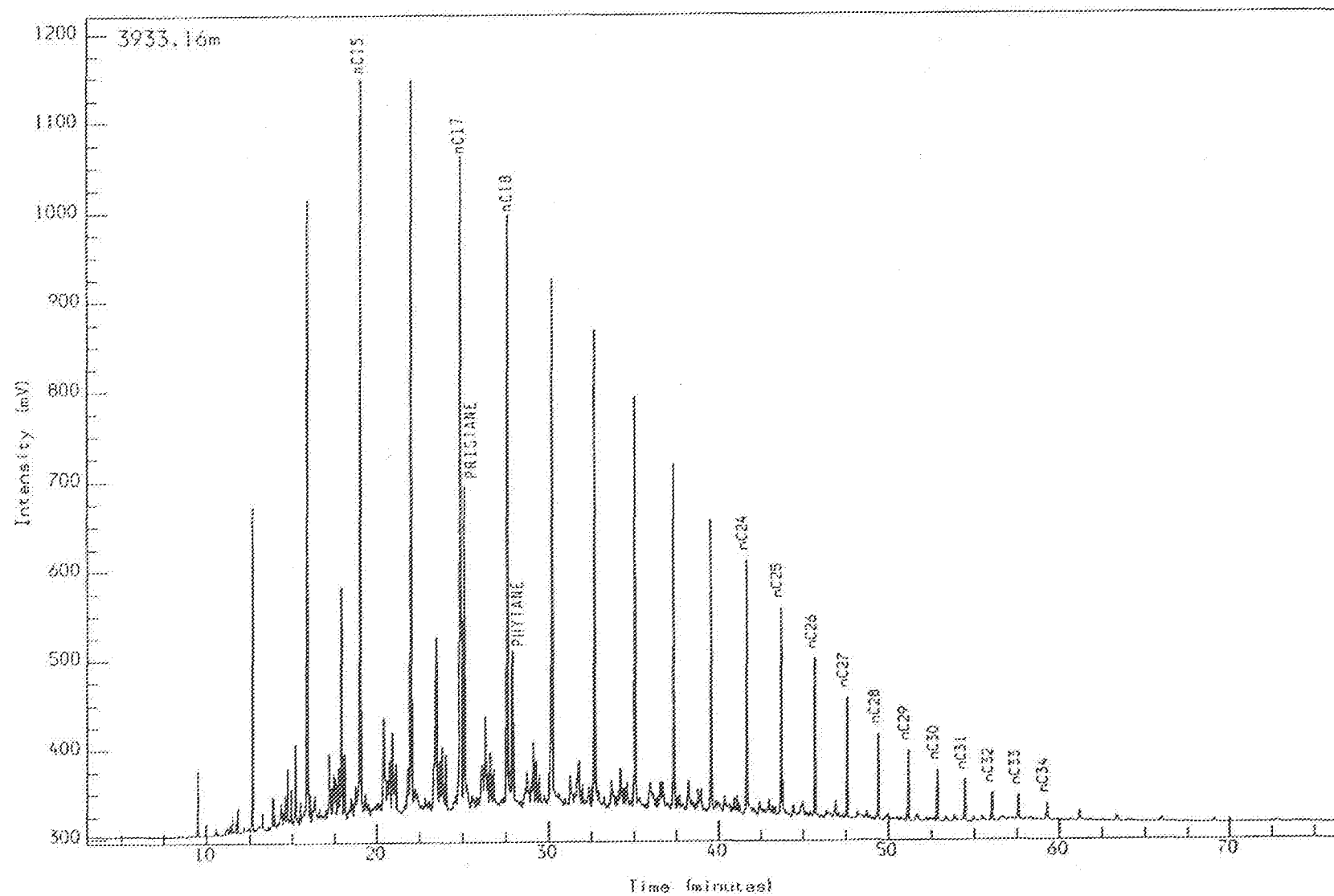
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.7.1.

Multichrom



WELL NOCS 34/10-35 3933.16m ccp
SATURATED GC
S/Sst: gy w to pl y brn

Reported on 31-AUG-1992 at 00:46

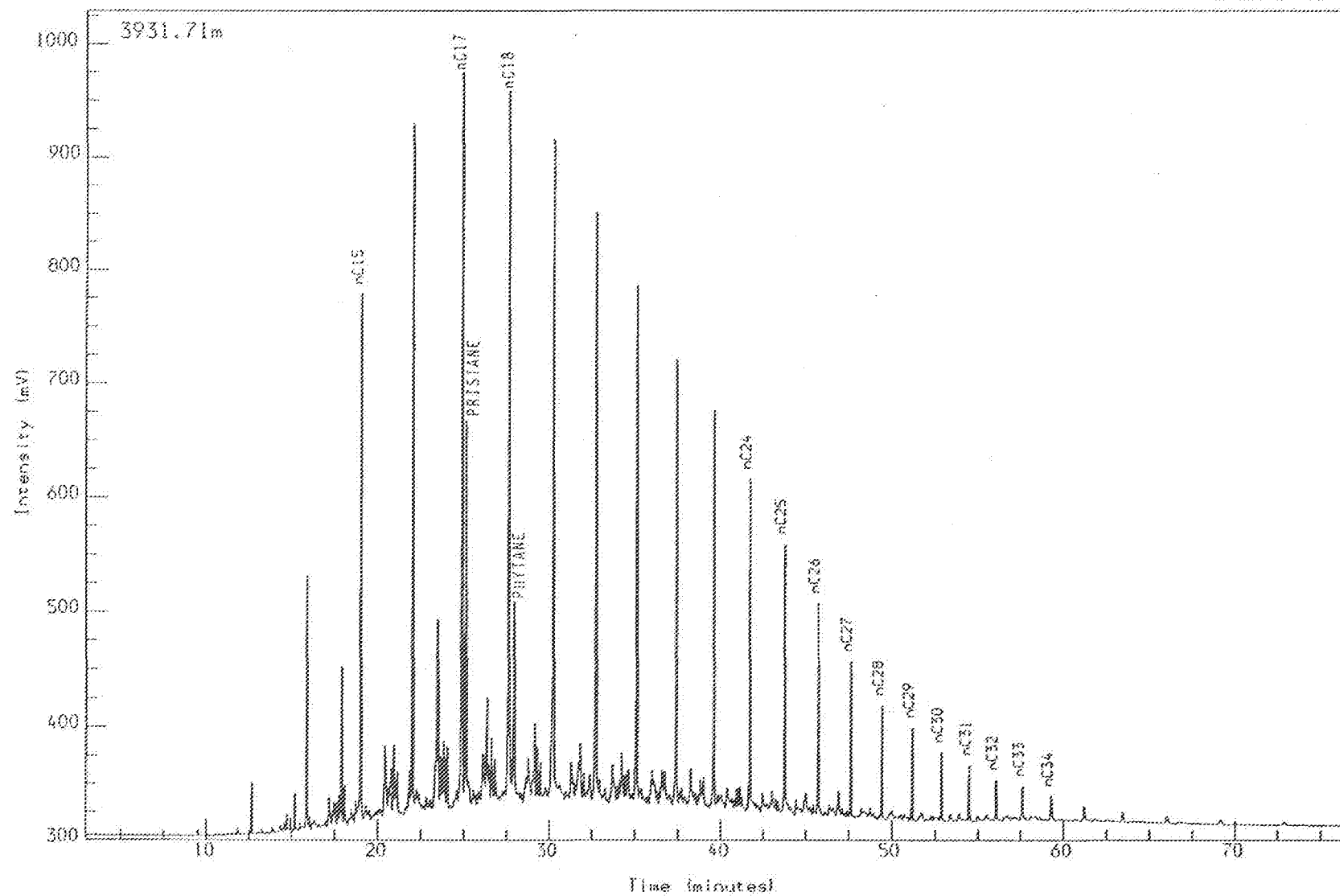
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] S SG3403581L.6.1.

Multichrom



WELL NOCS 34/10-35

3931.71m ccp

Reported on 31-AUG-1992 at 00.36

SATURATED GC

S/Sst: pl y brn

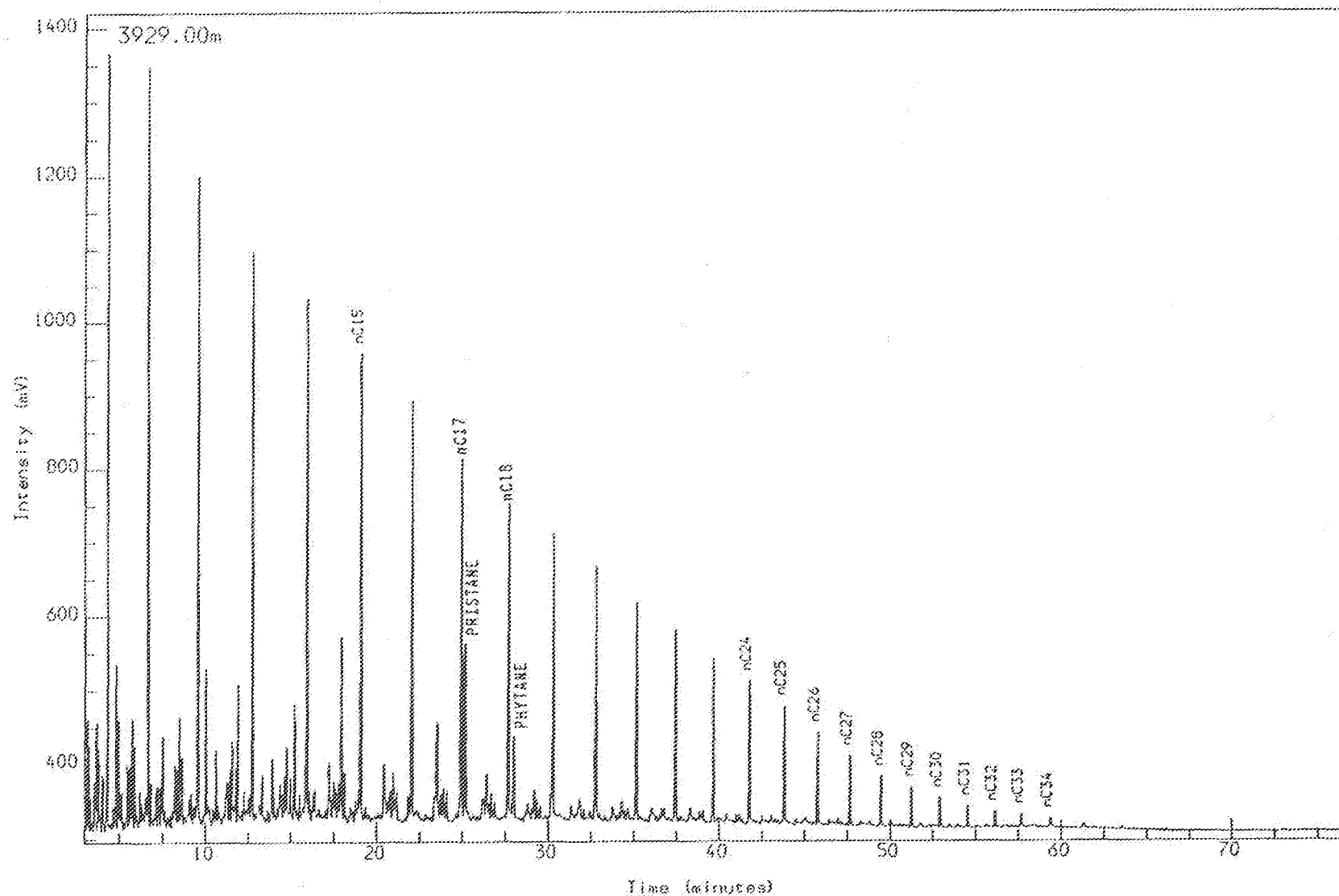
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SH4700610B.3.1.

Multichrom



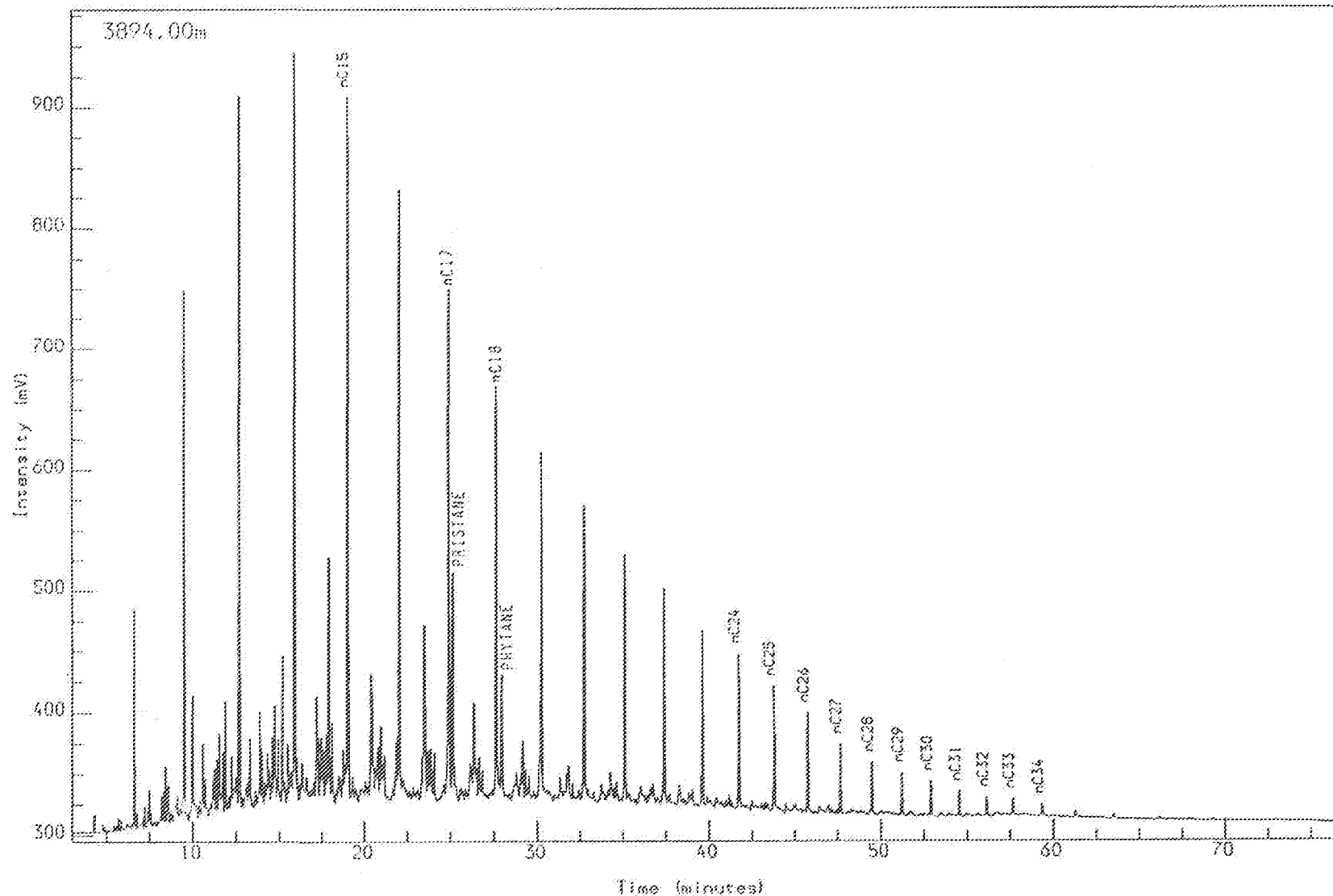
WELL NOCS 34/10-35 3920-3929m
SATURATED BE

Reported on 31-AUG-1992 at 10:01

Schlumberger

GECO-PRAKLA

GEOLAB NOR

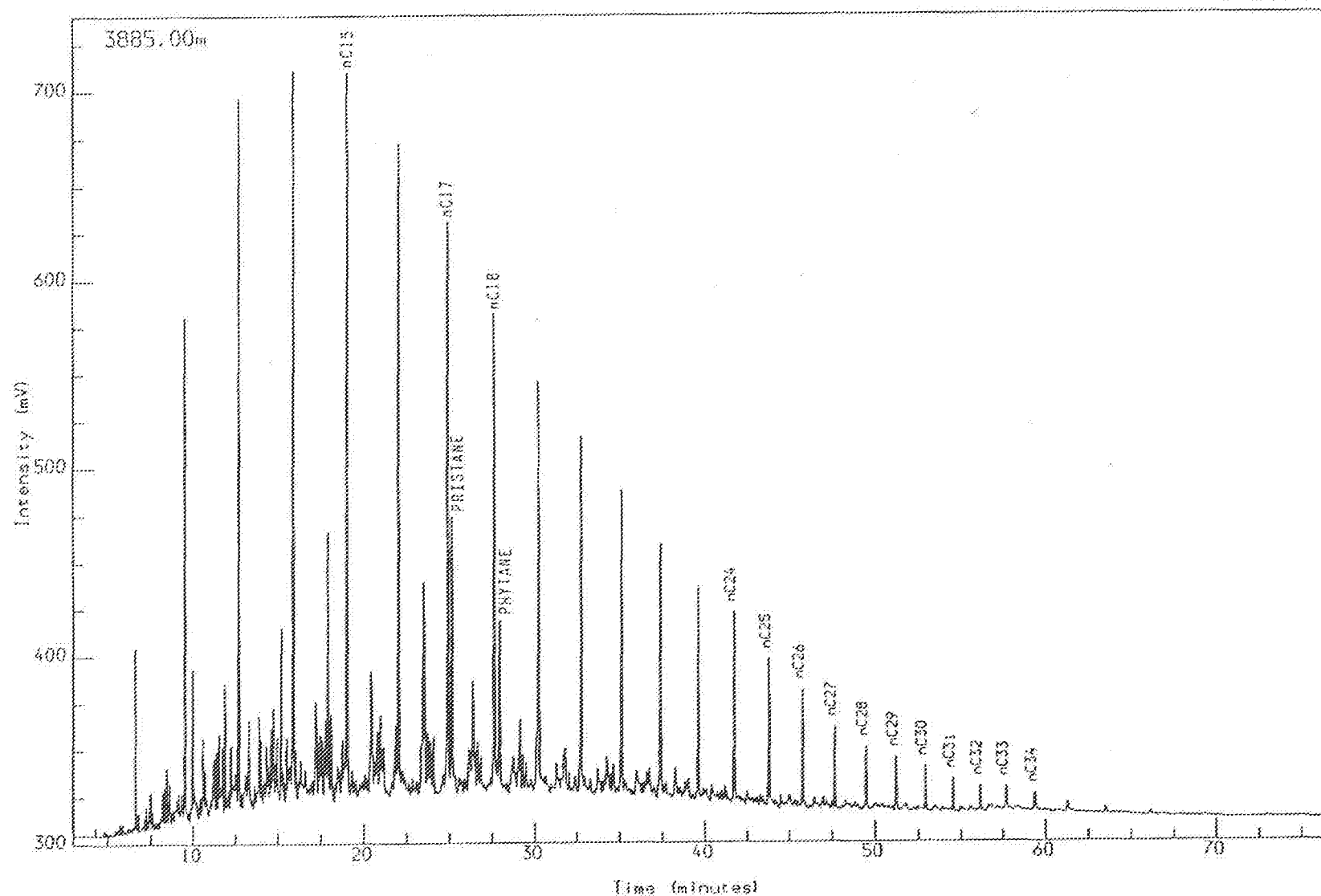


WELL NOCS 34/10-35 3894.00m cut
 SATURATED GC
 Sh/C1st: m gy to drk gy

Reported on 23-SEP-1992 at 09.41

Analysis Name : [526265] 5 SG3403591L.3.1.

Multichrom



WELL NOCS 34/10-35 3885.00m cut
SATURATED GC
Sh/Clst: m gy to drk gy

Reported on 23-SEP-1992 at 09:39

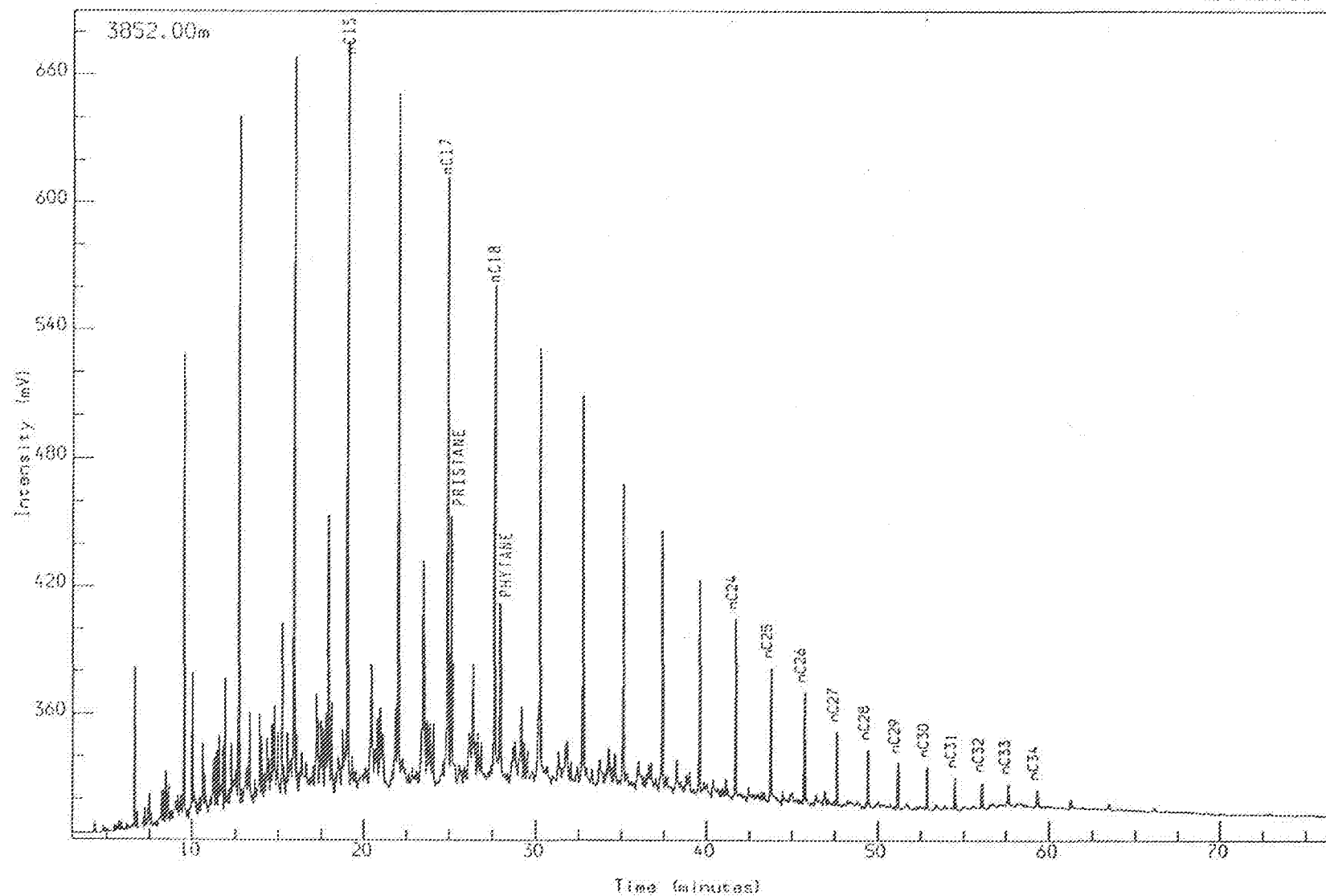
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.5.1.

Multichrom



WELL NOCS 34/10-35 3852.00m cut
SATURATED GC
Sh/Clst: drk gy to brn blk

Reported on 31-AUG-1992 at 00:30

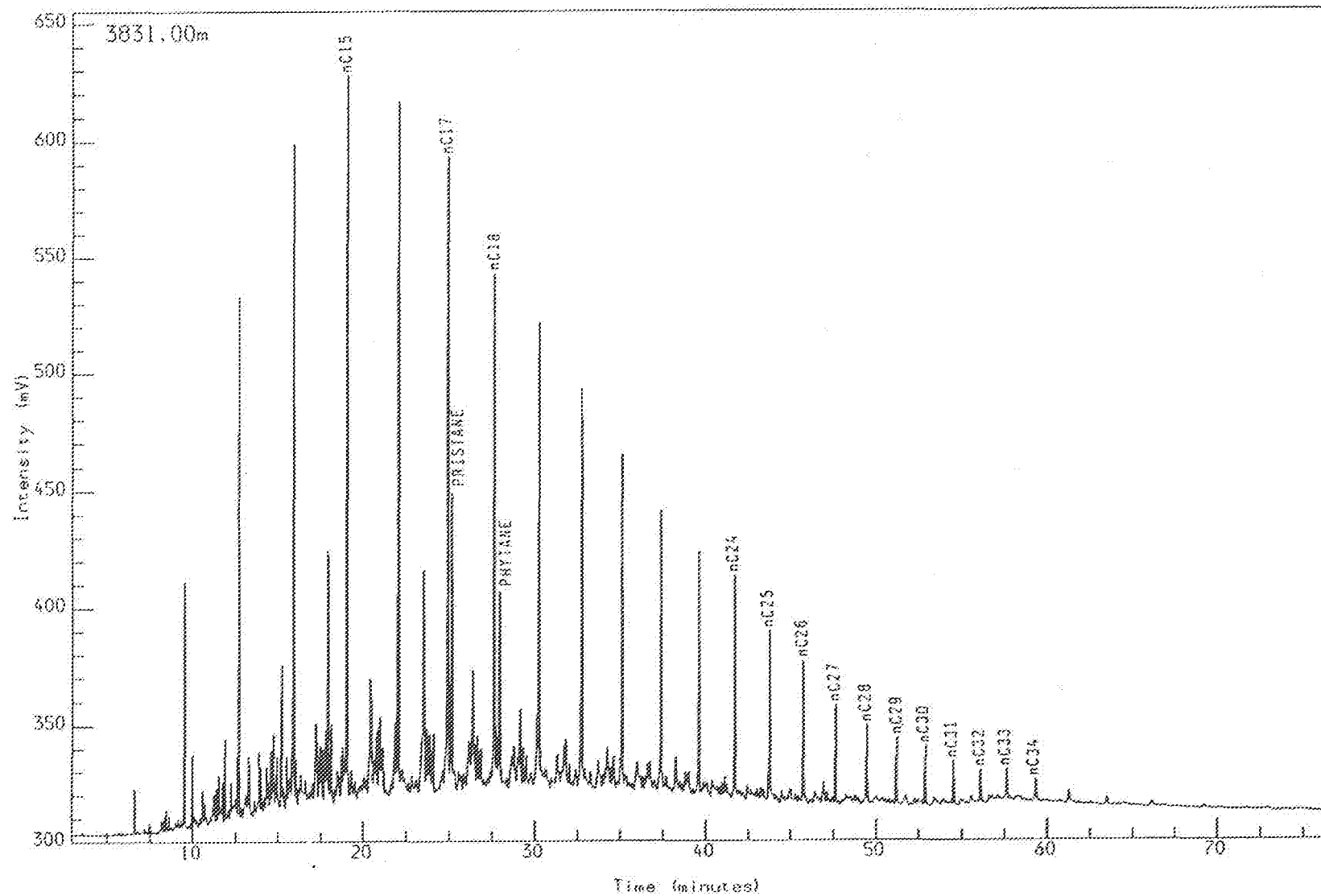
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L.4.1.

Multichrom



WELL NOCS 34/10-35 3831.00m cut
SATURATED GC
Sh/C1st: m gy to drk gy

Reported on 31-AUG-1992 at 00:05

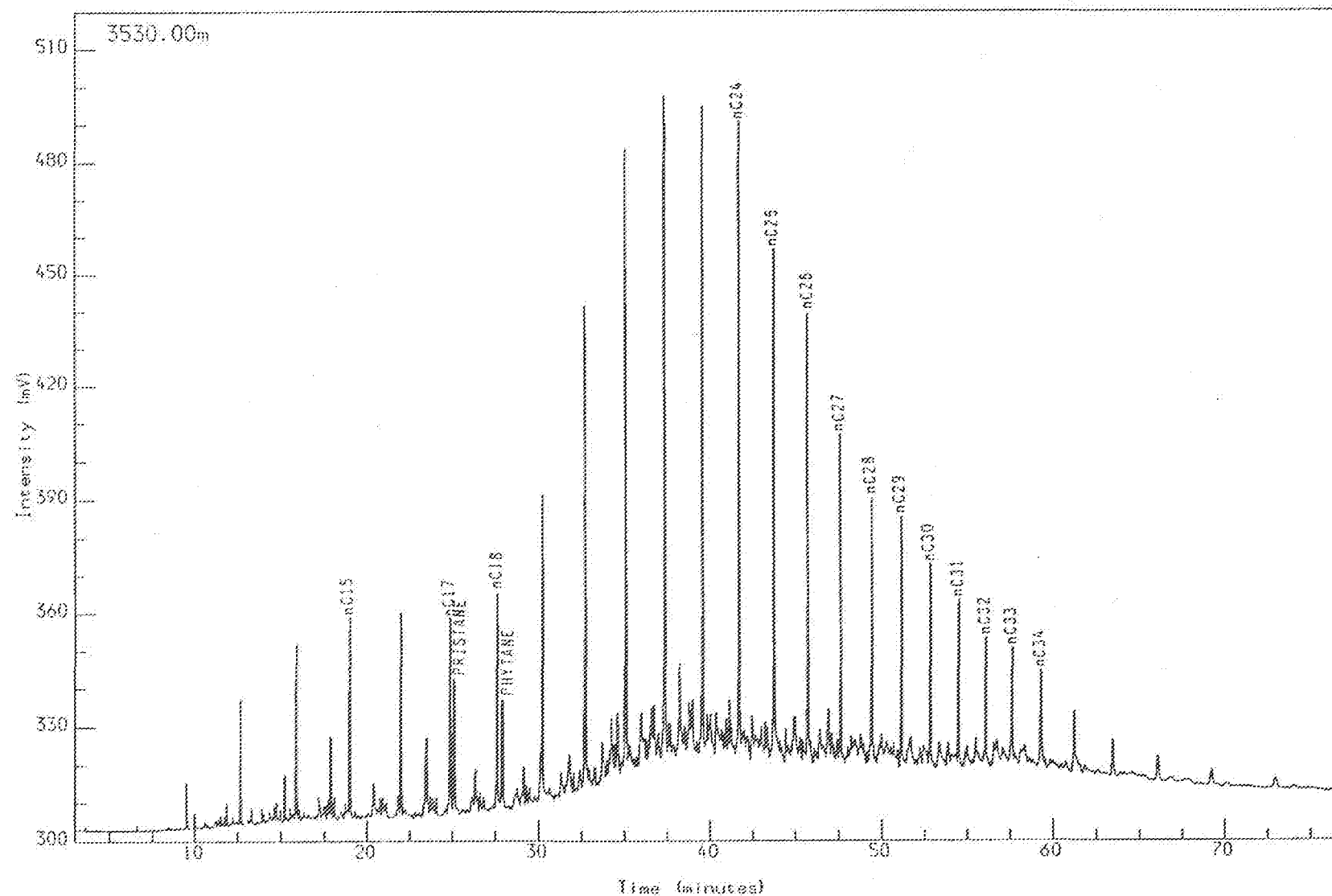
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SG3403581L,3.1.

Multichrom



WELL NOCS 34/10-35
SATURATED GC
Marl: y gy to lt gy

3530.00m cut

Reported on 31-AUG-1992 at 00:01

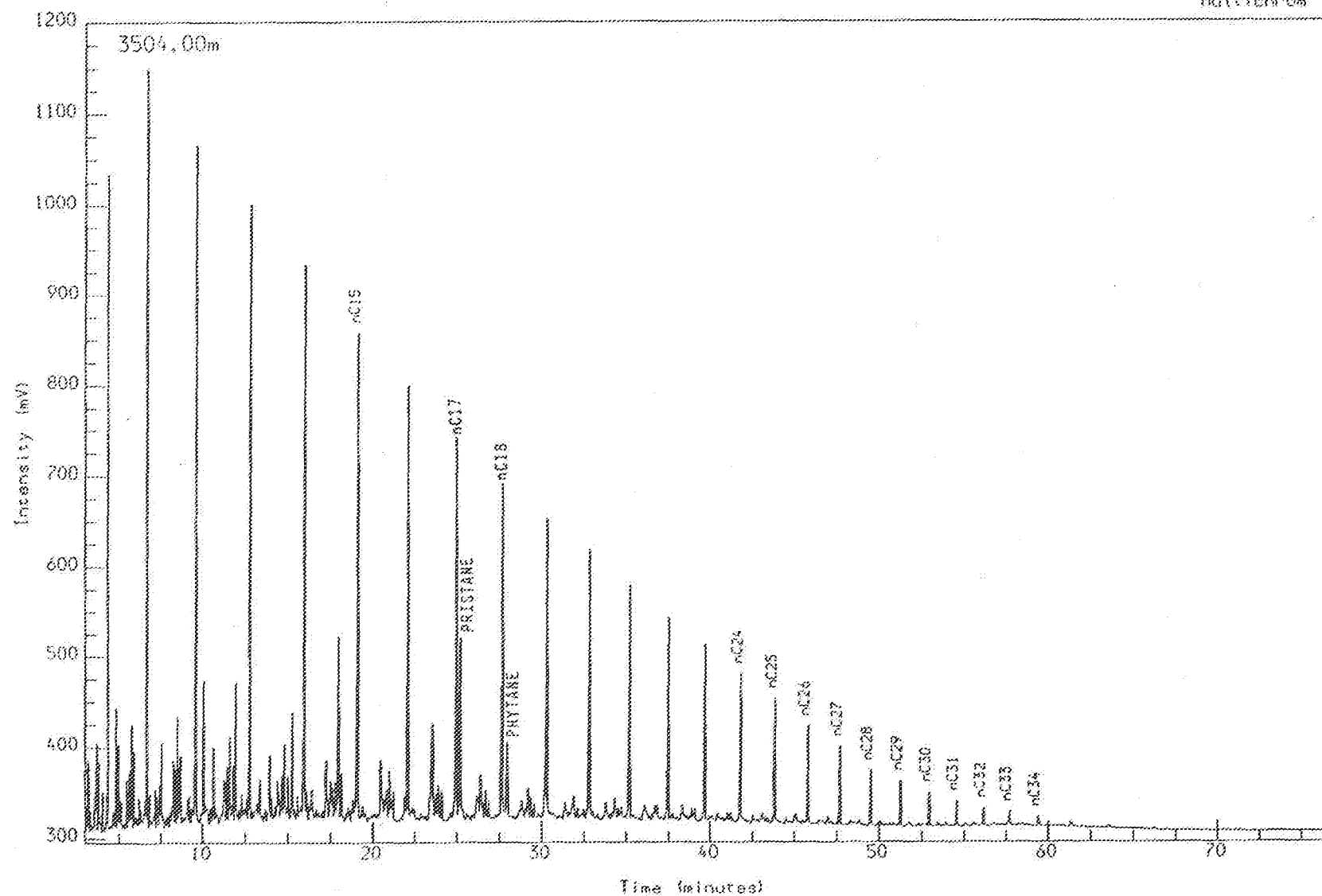
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 5 SH4700610B.2.1.

Multichrom



WELL NOCS 34/10-35 3496-3504m
SATURATED GC

Reported on 31-AUG-1992 at 09:59

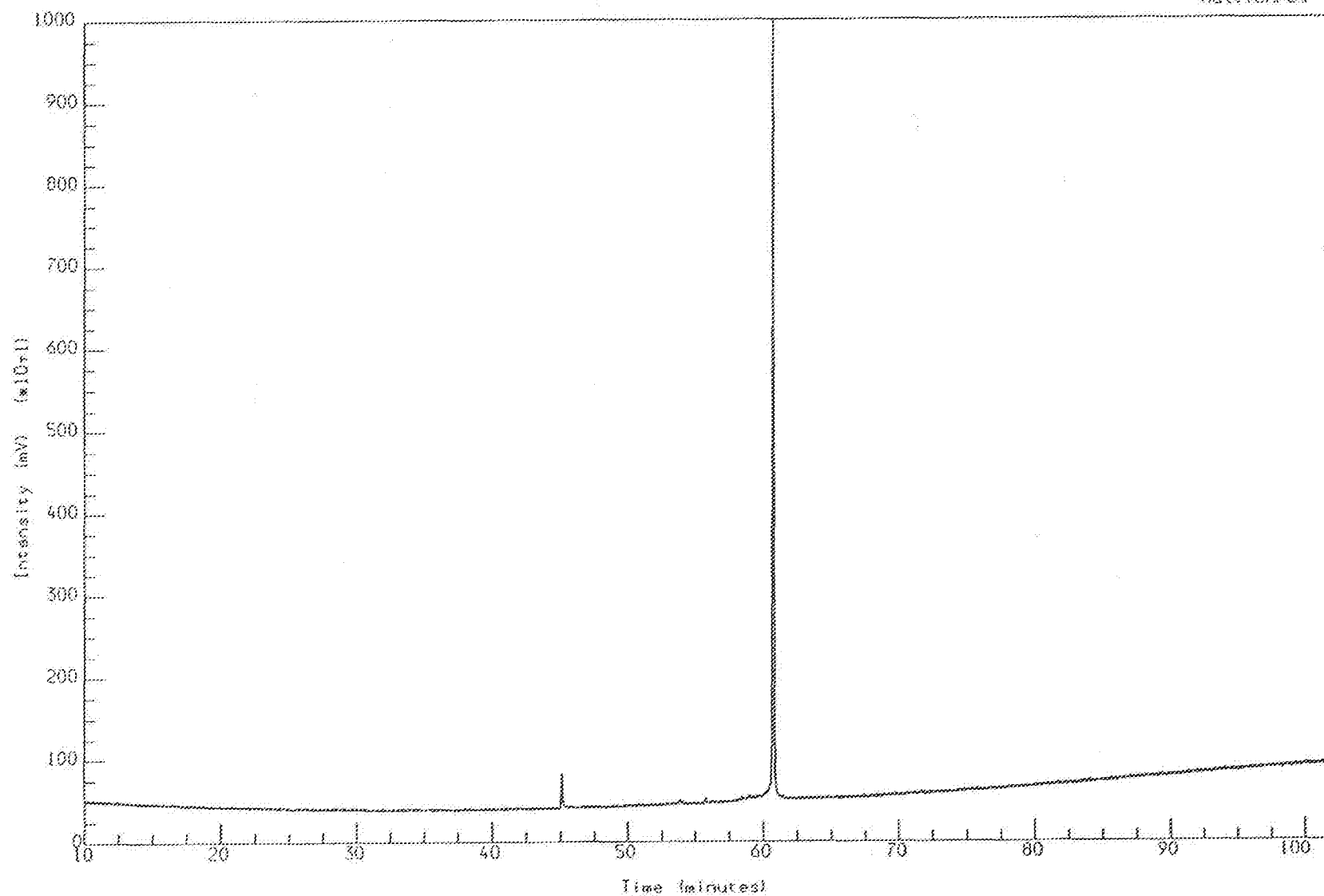
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0409742.1.1.

Multichrom



WELL NOCS 34/10-23 4097.42m
WHOLE EDM GC (FPD)

Reported on 17-SEP-1992 at 15:02

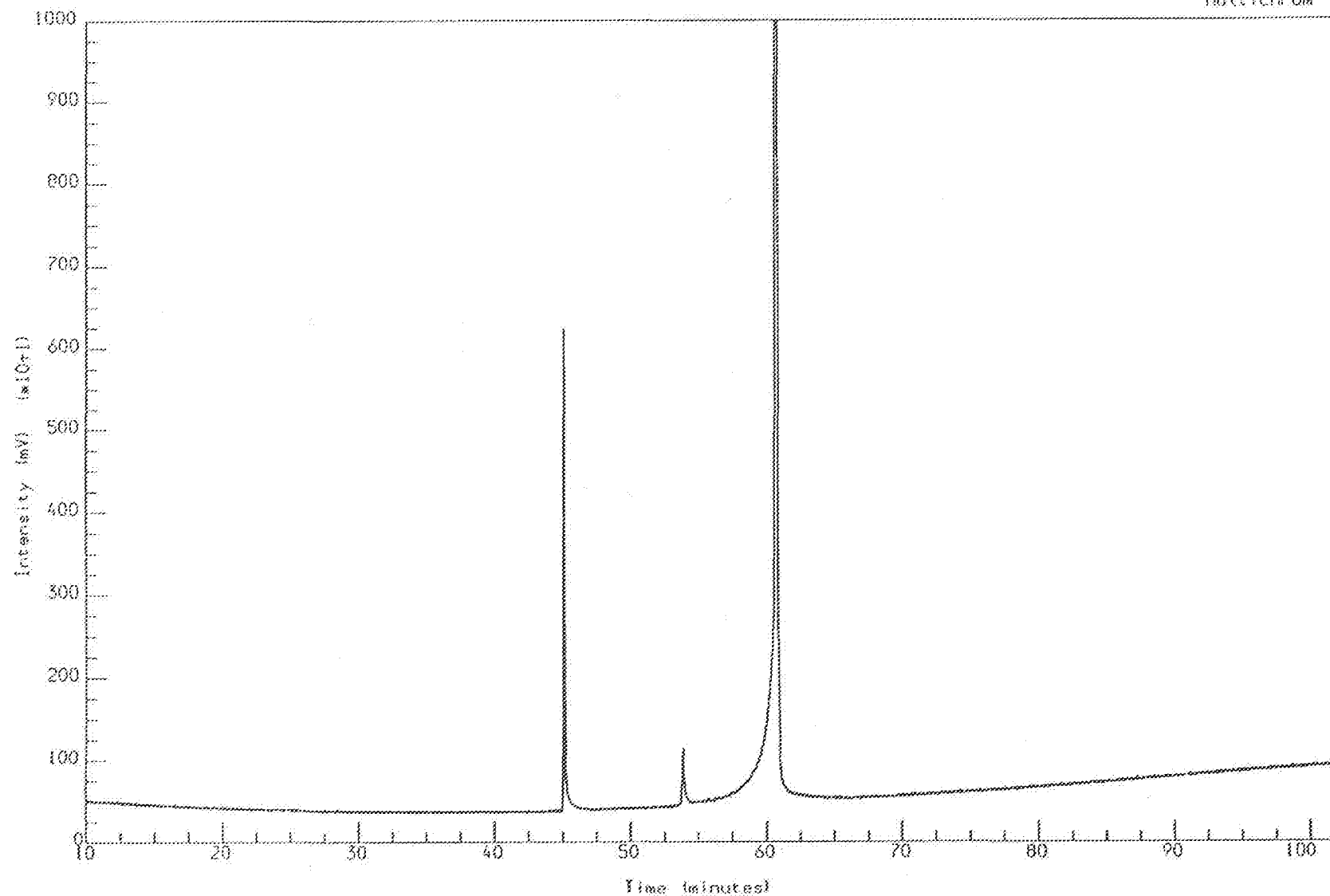
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0408491.1.1.

Multichrom



WELL NOES 34/10-23 4084.91m
WHOLE EOM GC (FPD)

Reported on 17-SEP-1992 at 08:31

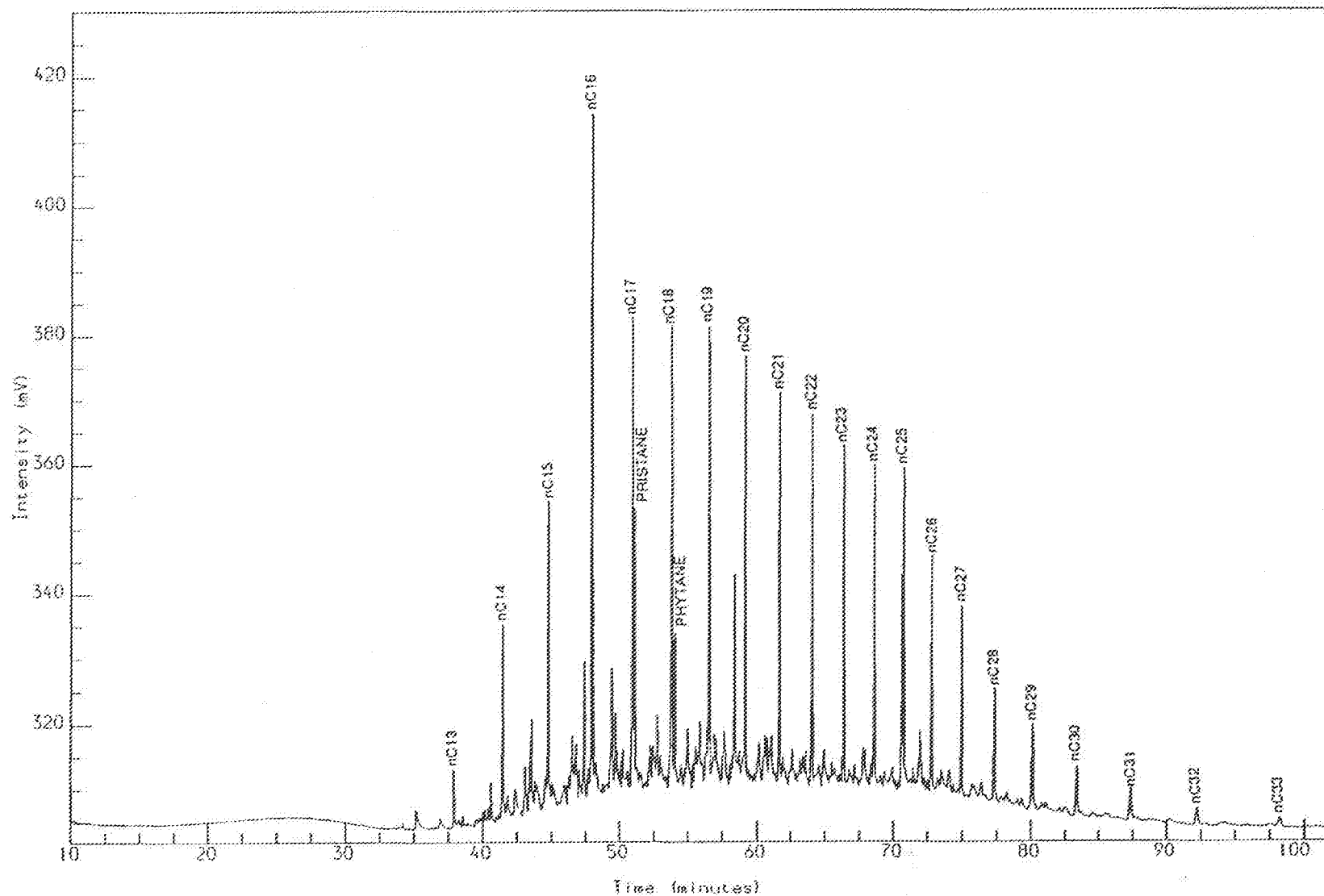
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0409742.1.1.

Multichrom



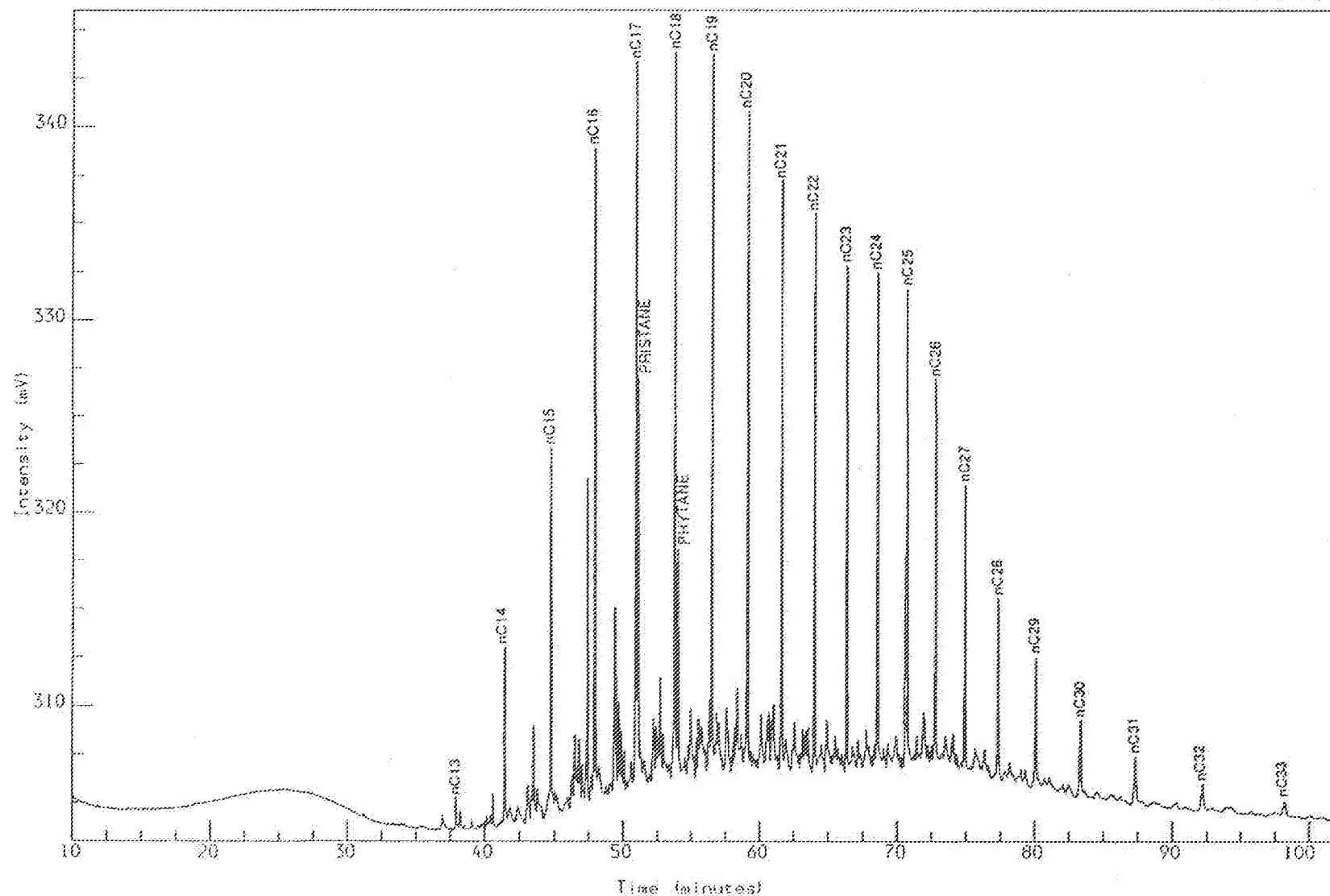
WELL NDCS 34/10-23 4097.42m
WHOLE EDH GC (FID)

Reported on 17-SEP-1992 at 14:48

Schlumberger

GECO-PRAKLA

GEOLAB NOR



WELL NOCS 34/10-23 4084.91m
WHOLE EOM GC (FID)

Reported on 17-SEP-1992 at 08:33

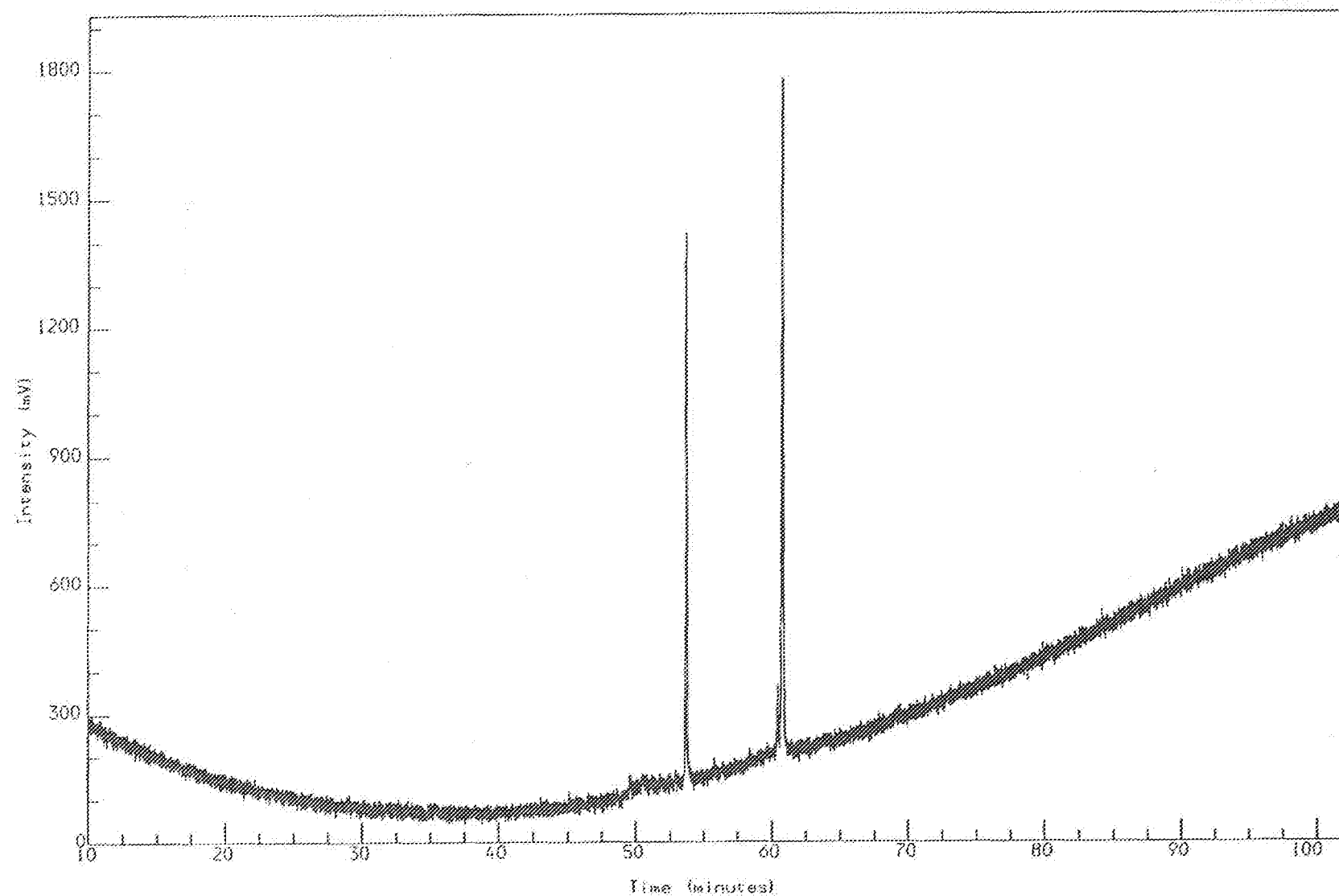
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0428348.1.1.

Multichrom



WELL NDCS 34/10-35 42B3.48m
WHOLE EOH GC (FPD)

Reported on 16-SEP-1992 at 09:57

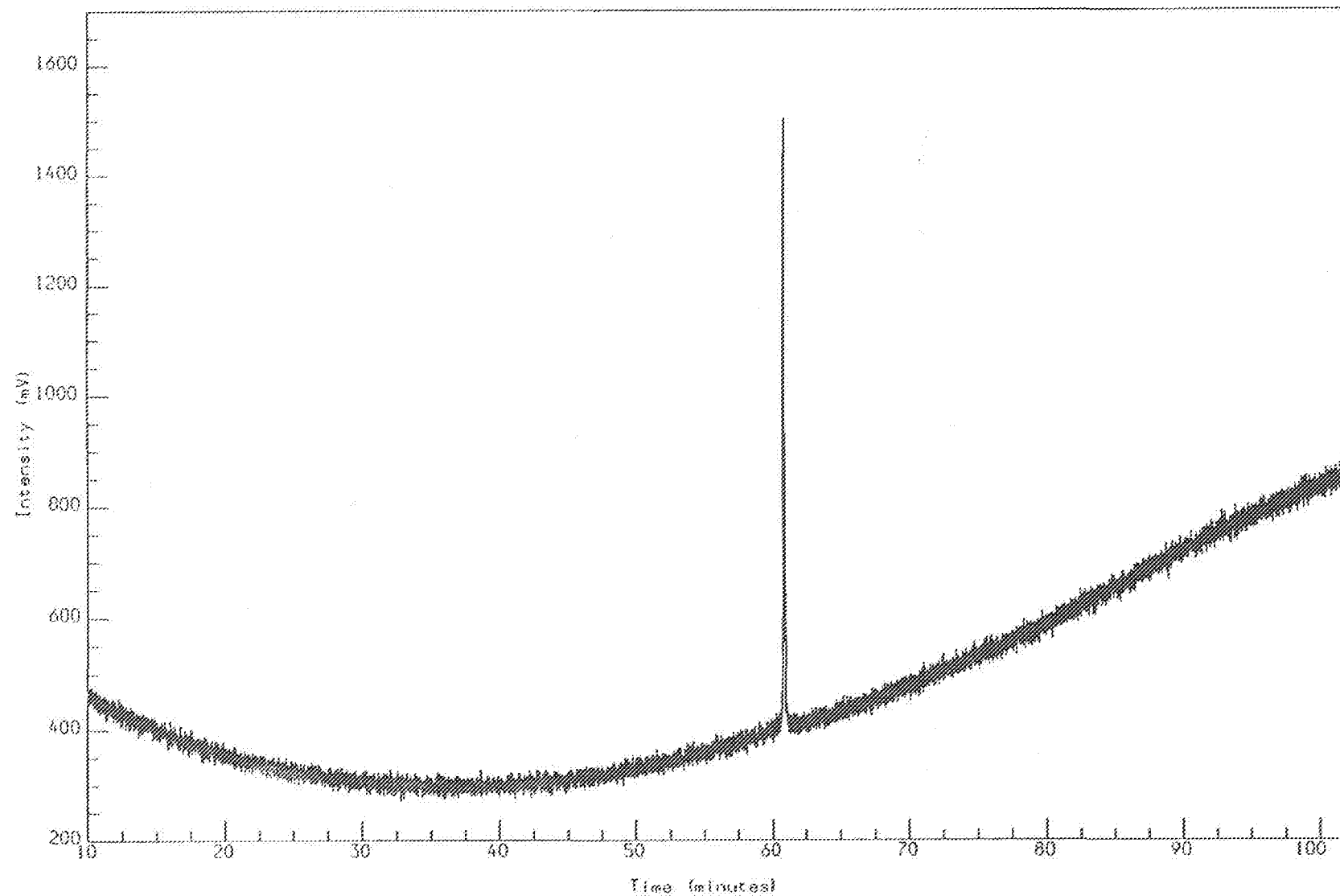
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0427075.1.1.

Multichrom



WELL NDCS 34710-35 4270.75m
WHOLE EOH GC (FPD)

Reported on 16-SEP-1992 at 14.29

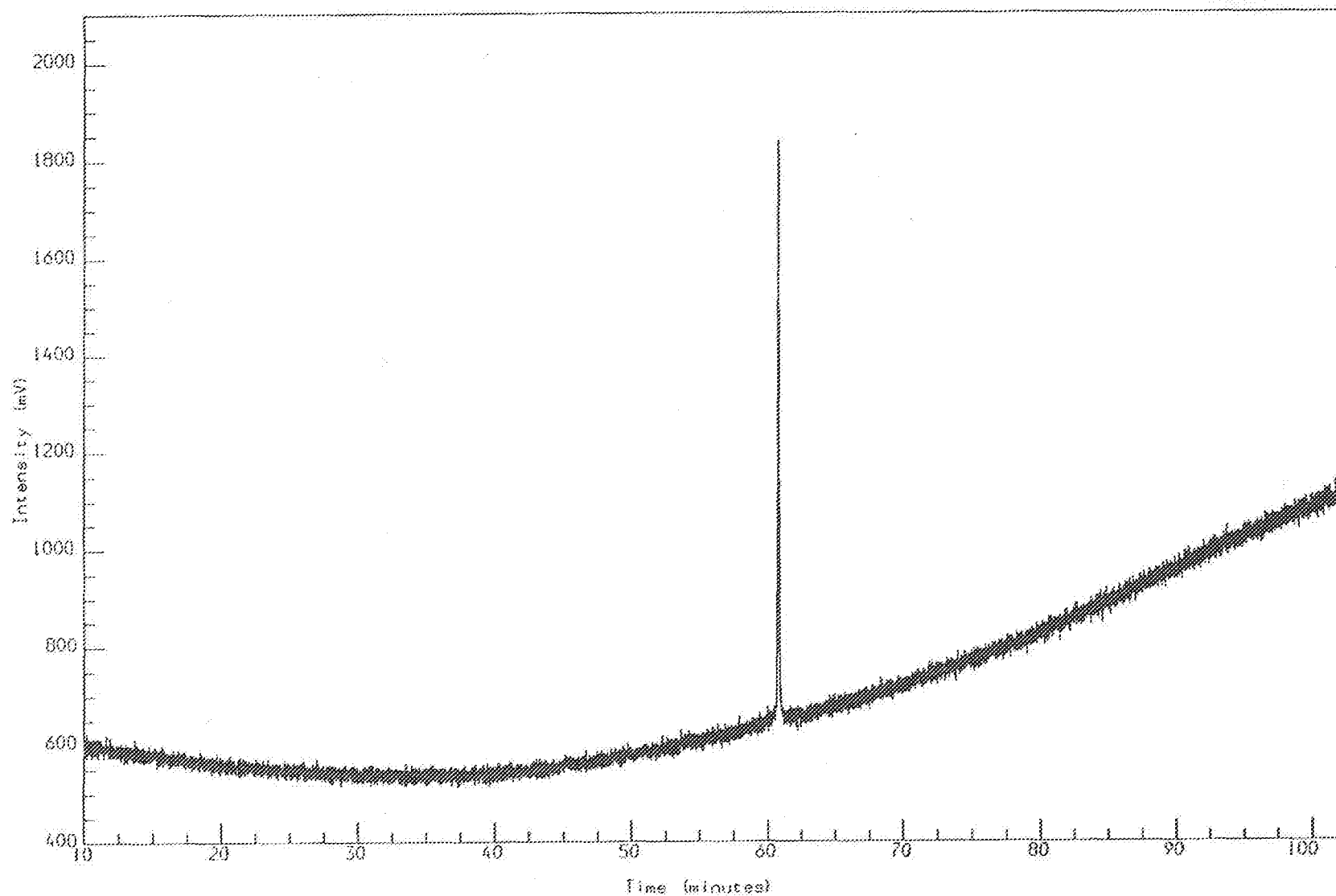
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0425747.1.1.

Multichrom



WELL NOCS 34/10-35 4257.47m
WHOLE EDM GC (FPD)

Reported on 16-SEP-1992 at 12:11

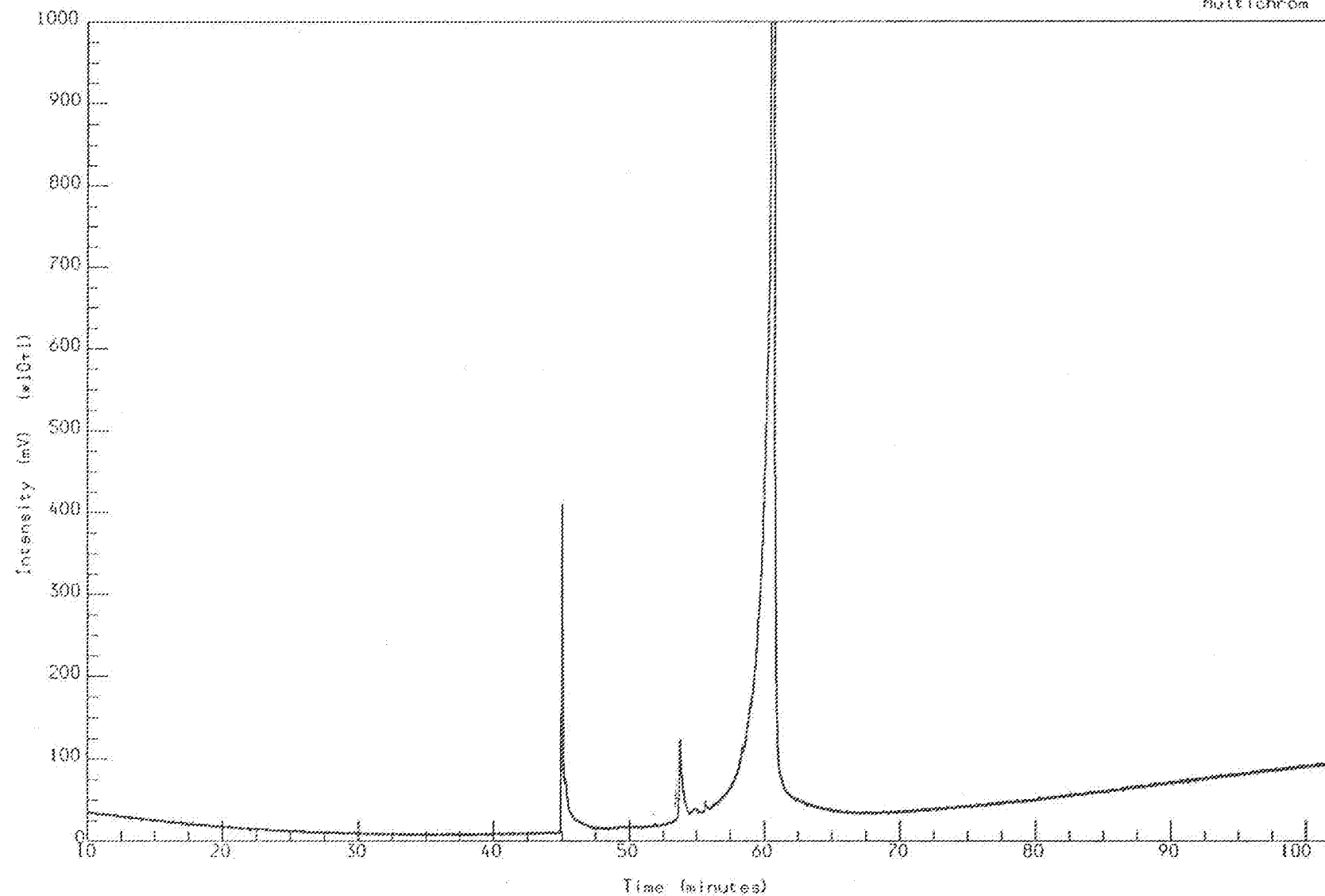
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0402193.1.1.

Multichrom



WELL NOC9 34/10-35 4021.93m
WHOLE EOH GC (FPD)

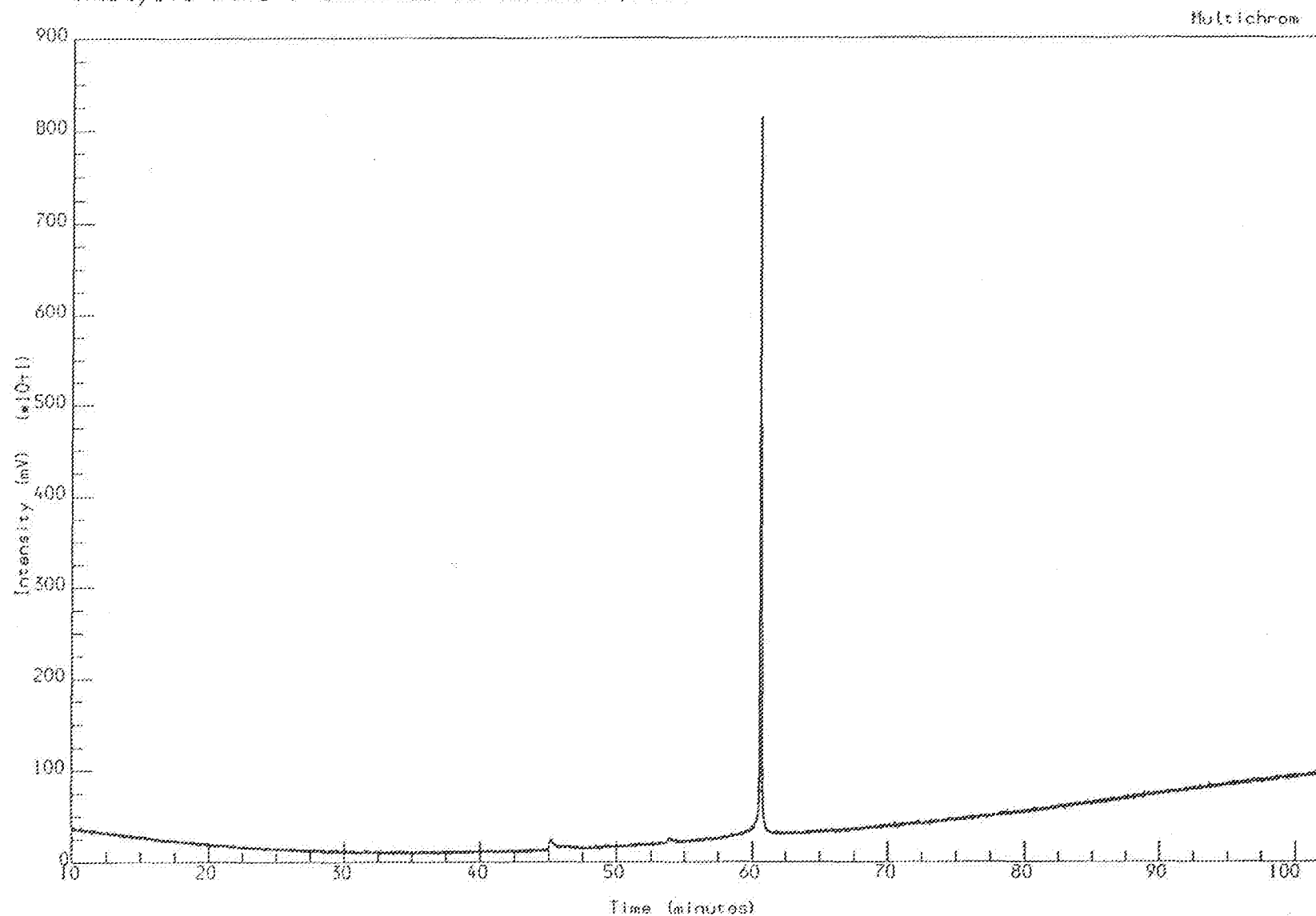
Reported on 24-SEP-1992 at 09:19

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0400617.1.1.



WELL NOCS 34/10-35 4006.17m
WHOLE EDM GC (FPD)

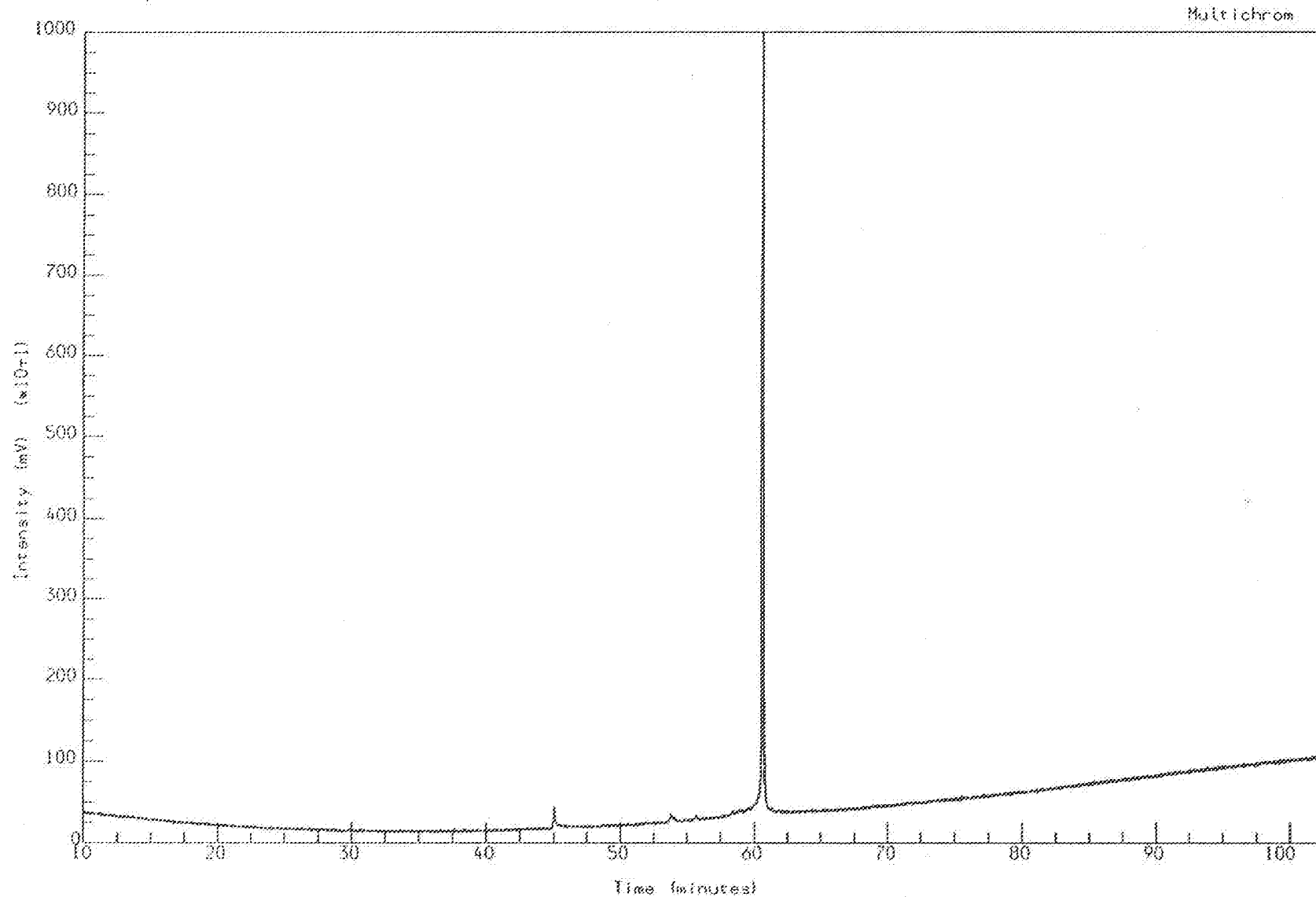
Reported on 23-SEP-1992 at 15:28

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0399405.1.1.



WELL NOCS 34/10-35 3994.05m
WHOLE EOH GC (FPD)

Reported on 23-SEP-1992 at 13.33

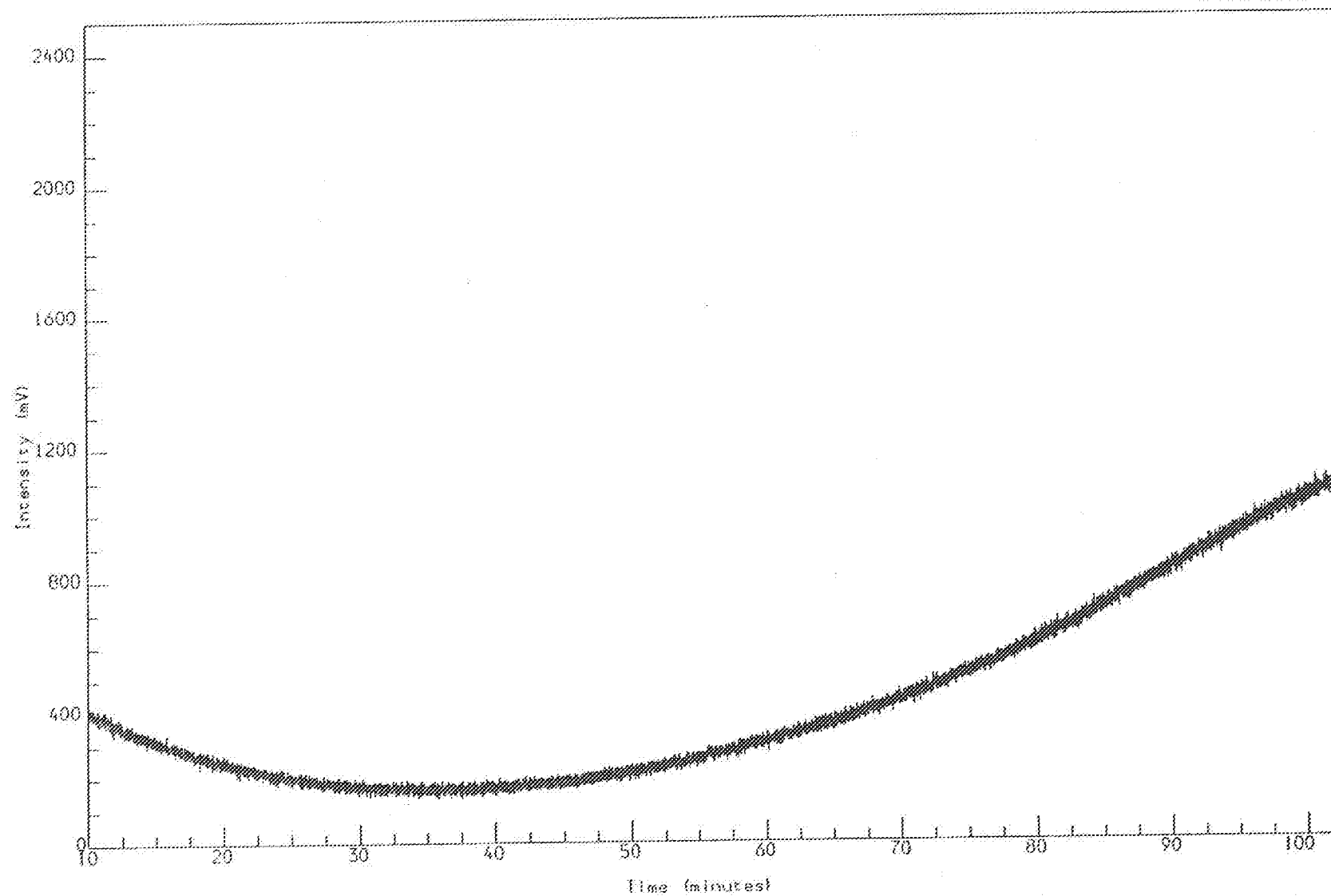
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0393316.1.1.

Multichrom



WELL NOCS 34/10-35 3933.16m
WHOLE EDM GC (FPD)

Reported on 23-SEP-1992 at 11.27

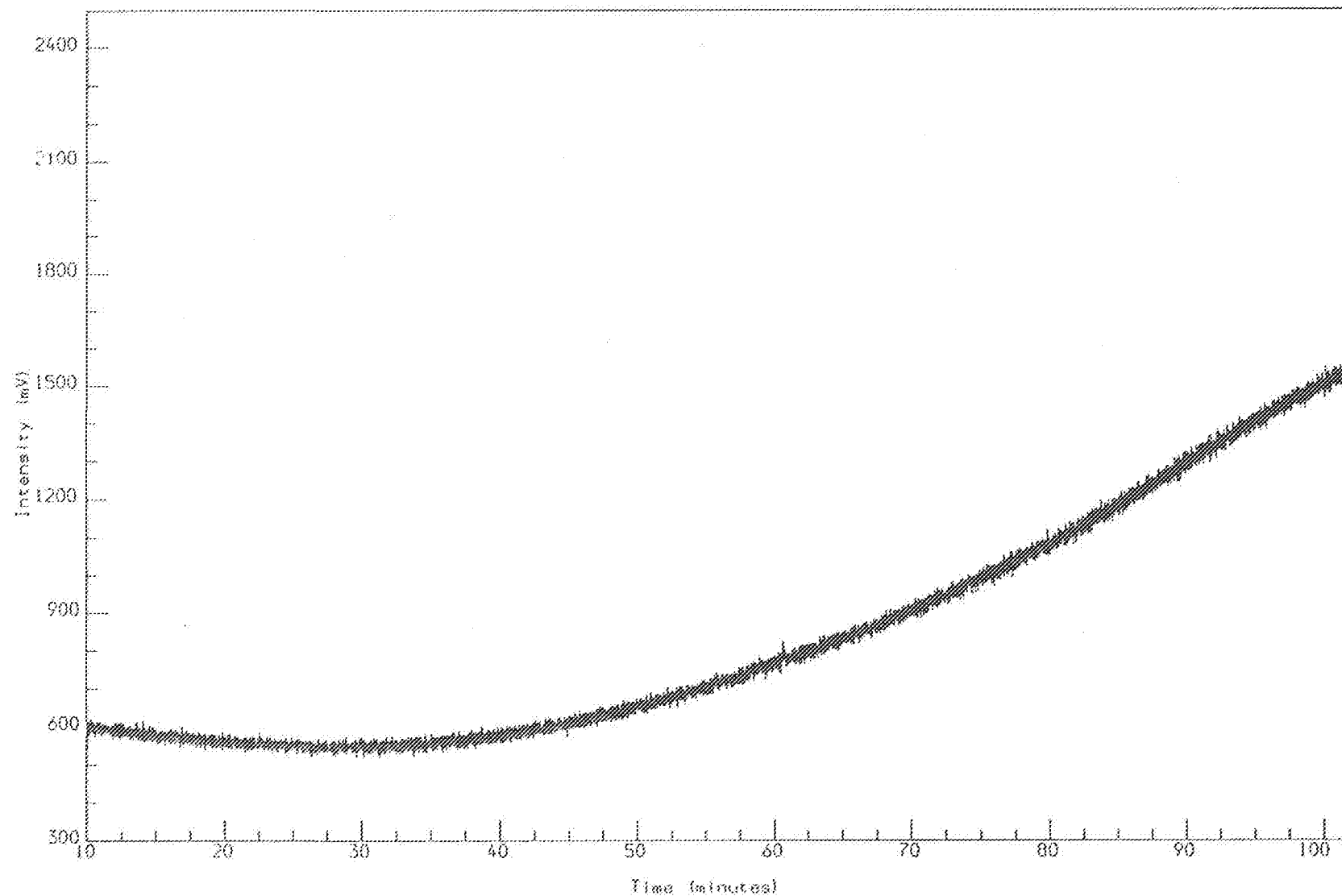
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W0393171.1.1.

Multichrom



WELL NOCS 34/10-35 3931.71m
WHOLE EUN GC (FPD)

Reported on 23-SEP-1992 at 09:10

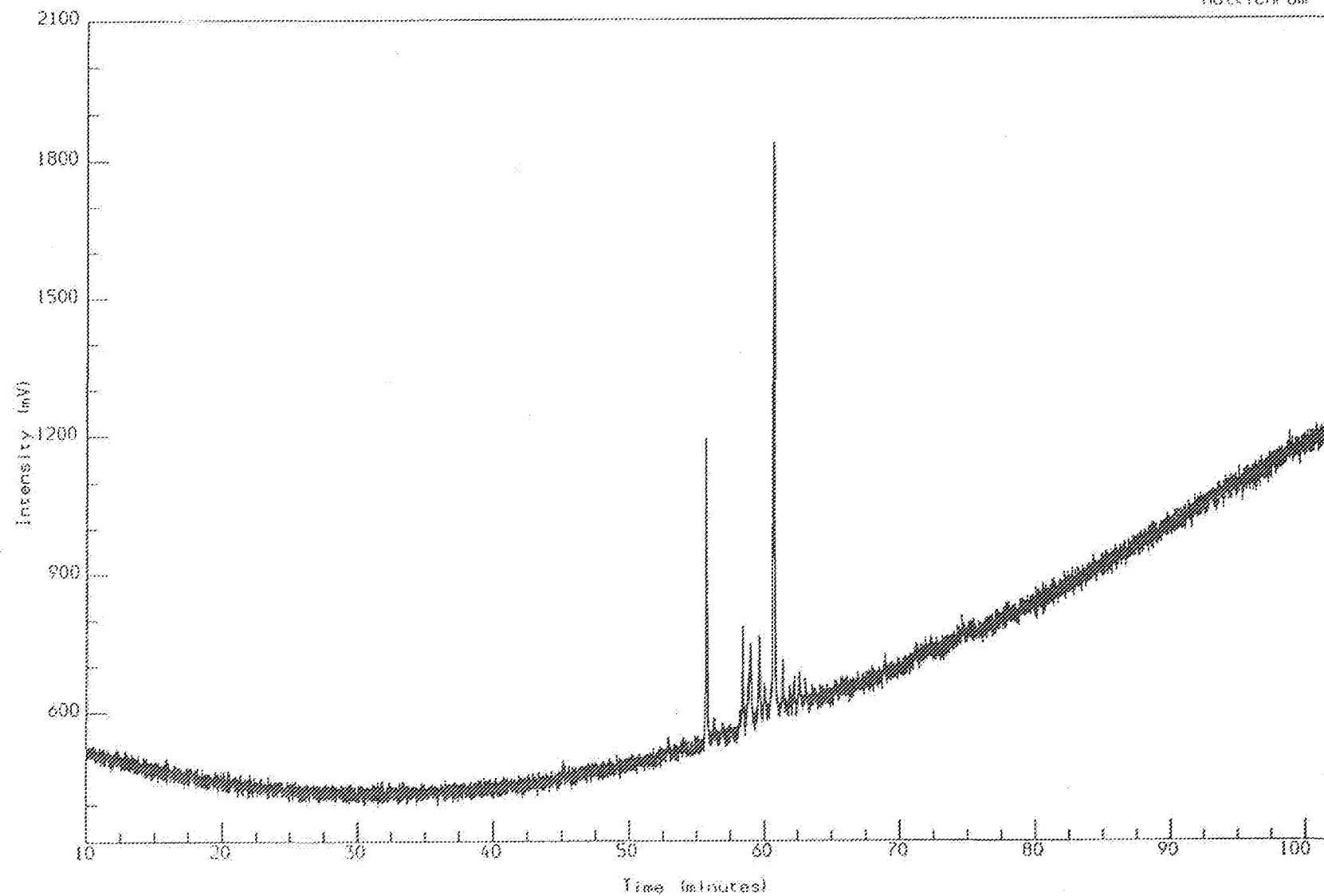
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03894.1.1.

Multichrom



WELL NOCS 34/10-35 SB94.00m
WHOLE EDM GC (FPD)

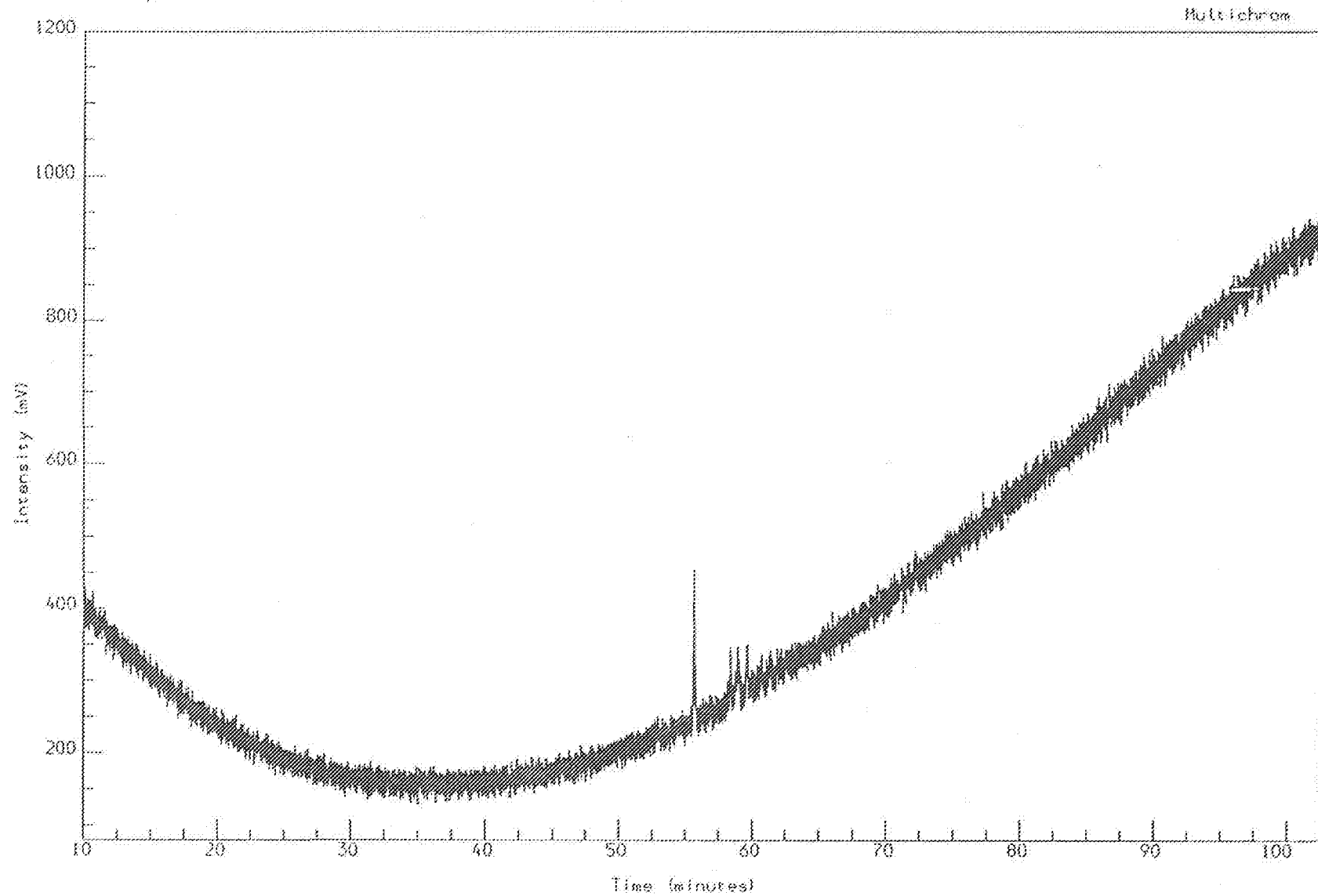
Reported on 31-AUG-1992 at 01:31

Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03885.1.1.



WELL NOES 34/10-35 3885.00m
WIDE EOM GC (FPD)

Reported on 31-AUG-1992 at 01:28

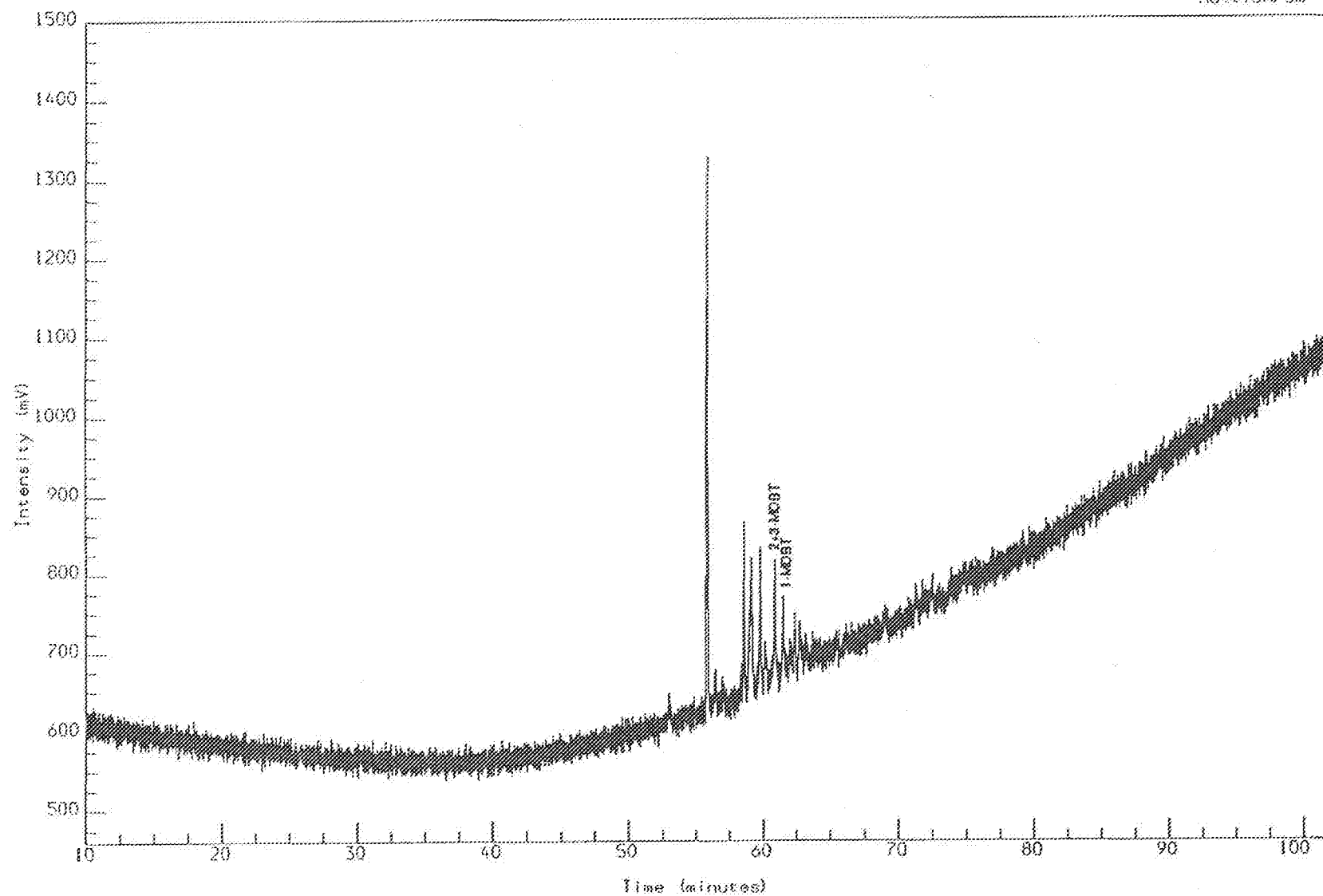
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03852.1.1.

Multichrom



WELL NOCS 34/10-35 3852.00m
WHOLE EDM BC (FPD)

Reported on 18-SEP-1992 at 12:11

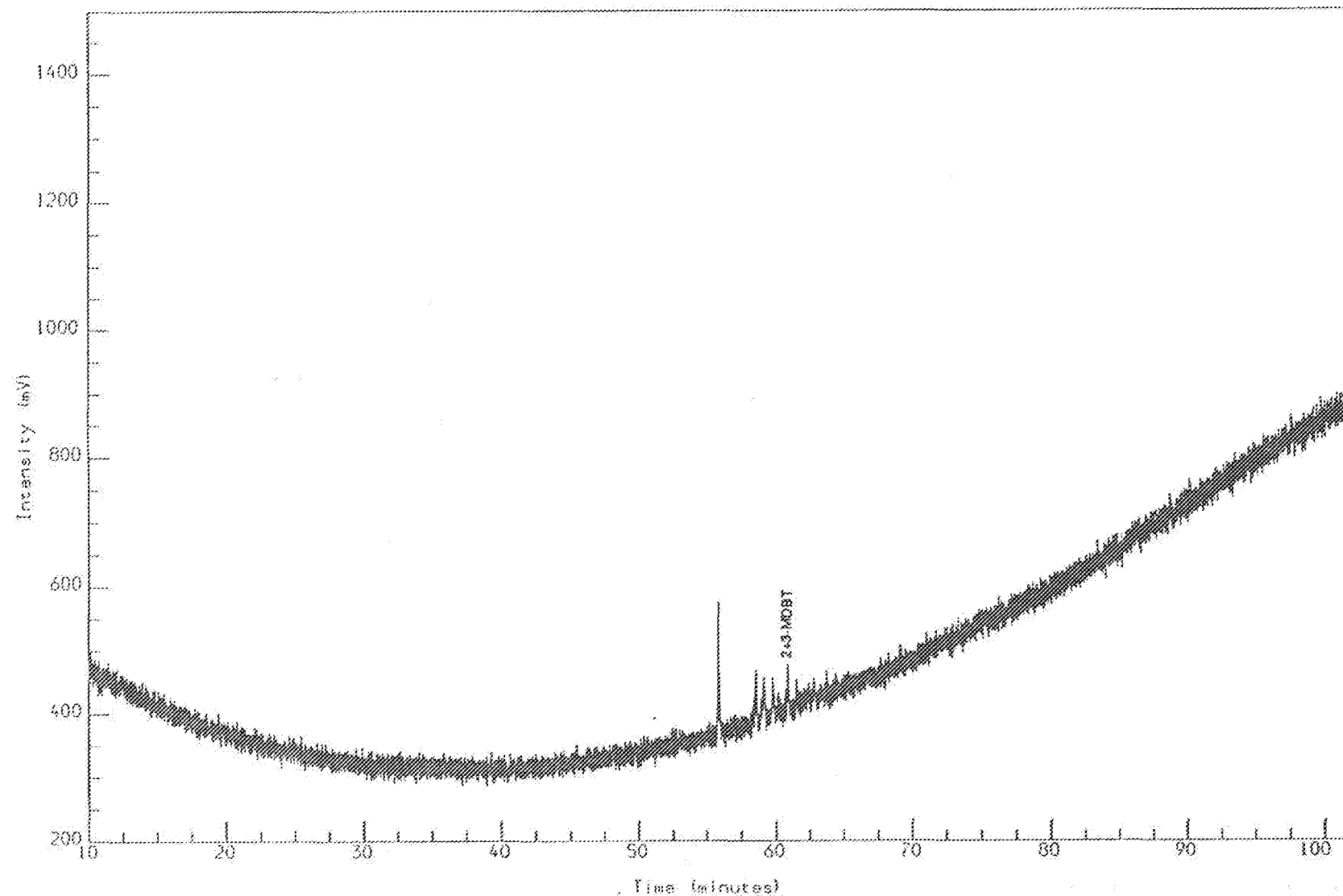
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03831.1.1.

Multichrom



WELL NOCS 34/10-55 3831.00m
WIRE EOM GC (FPD)

Reported on 18-SEP-1992 at 10:13

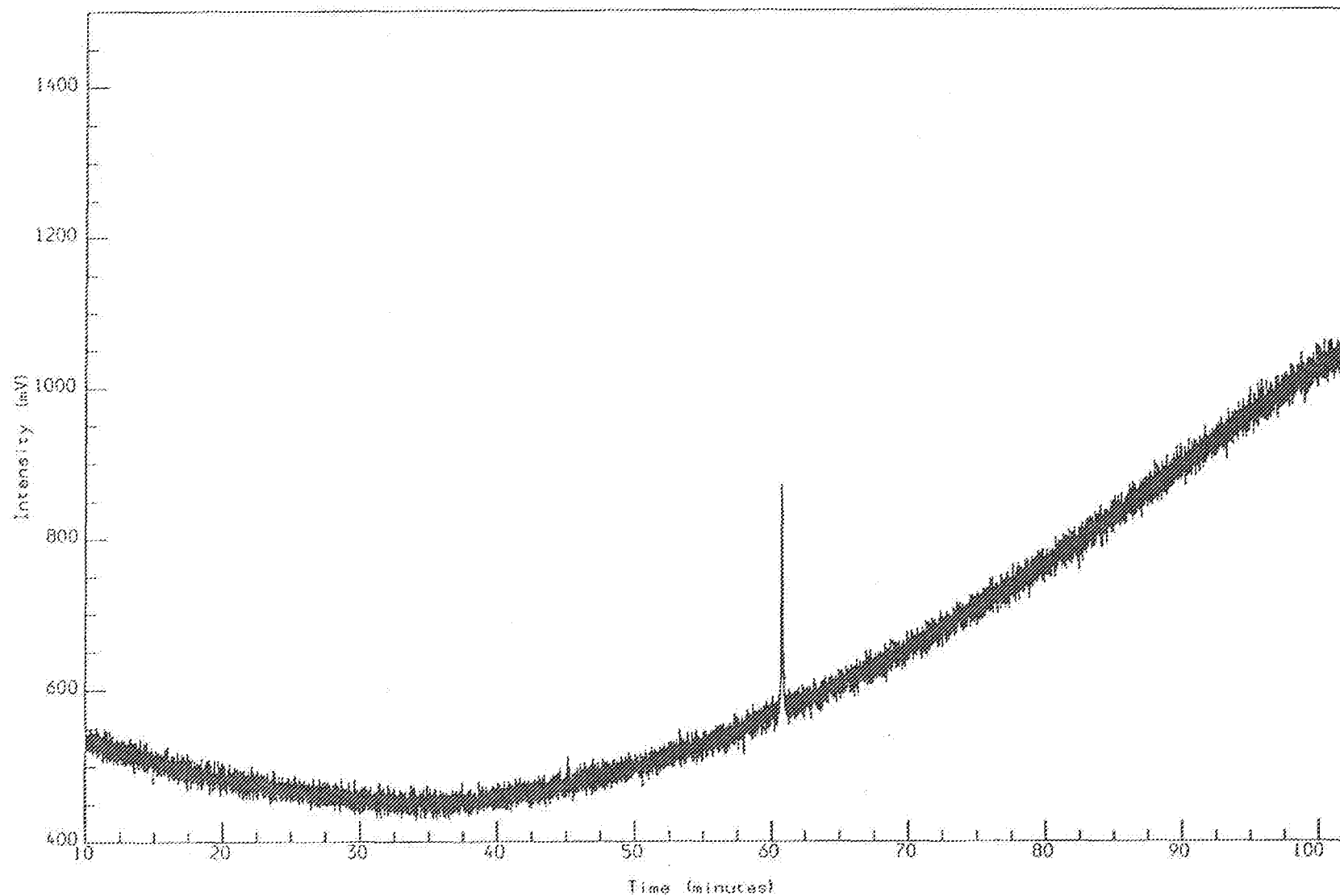
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 32 W03530.1.1.

Multichrom



WELL NDCS 34/10-35 3530.00m
WHOLE EOM GC (FPD)

Reported on 17-SEP-1992 at 15:06

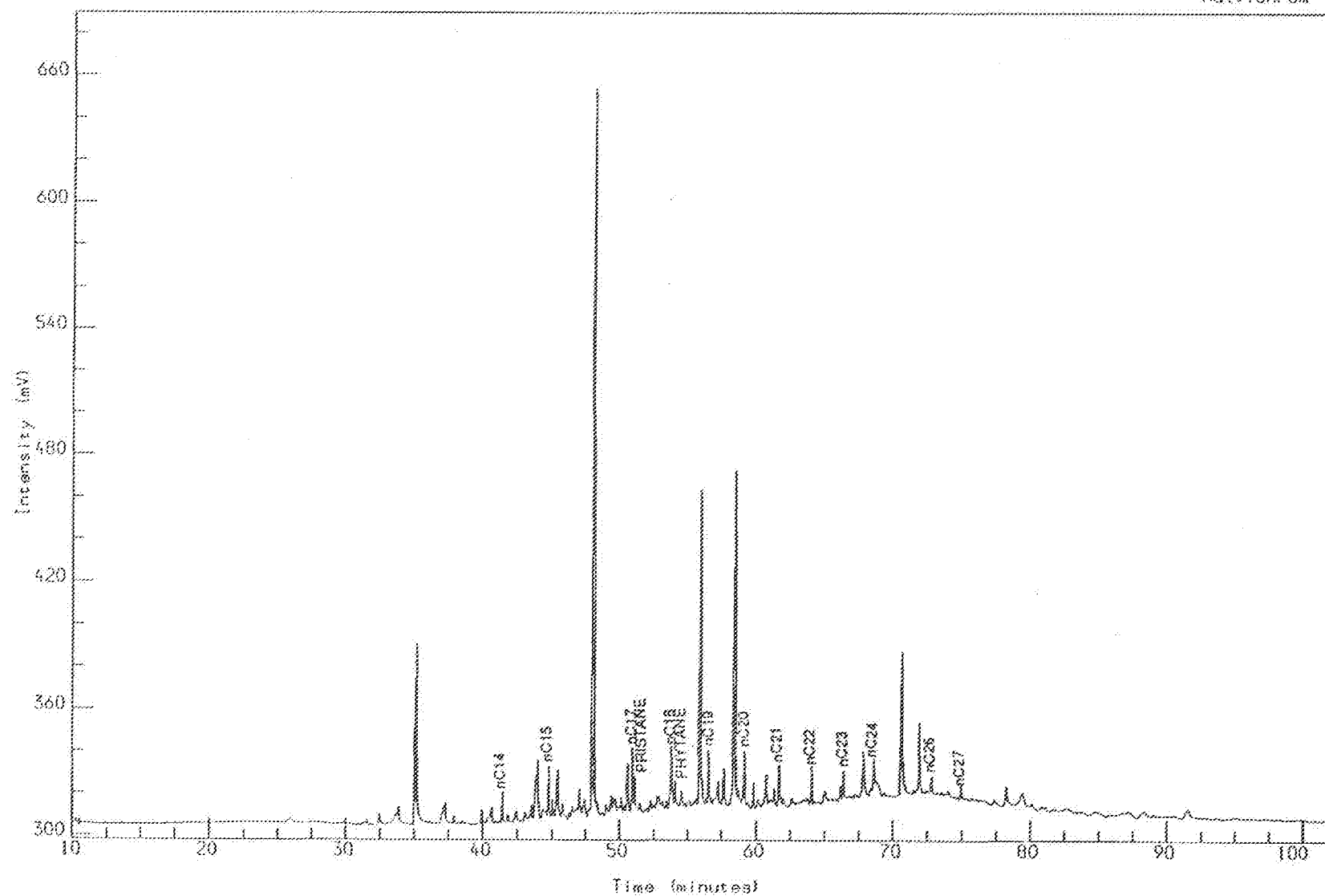
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0426348.1.1.

Multichrom



WELL NOCS 34/10-35 4283.48m
WHOLE EUM GC (FID)

Reported on 16-SEP-1992 at 09:51

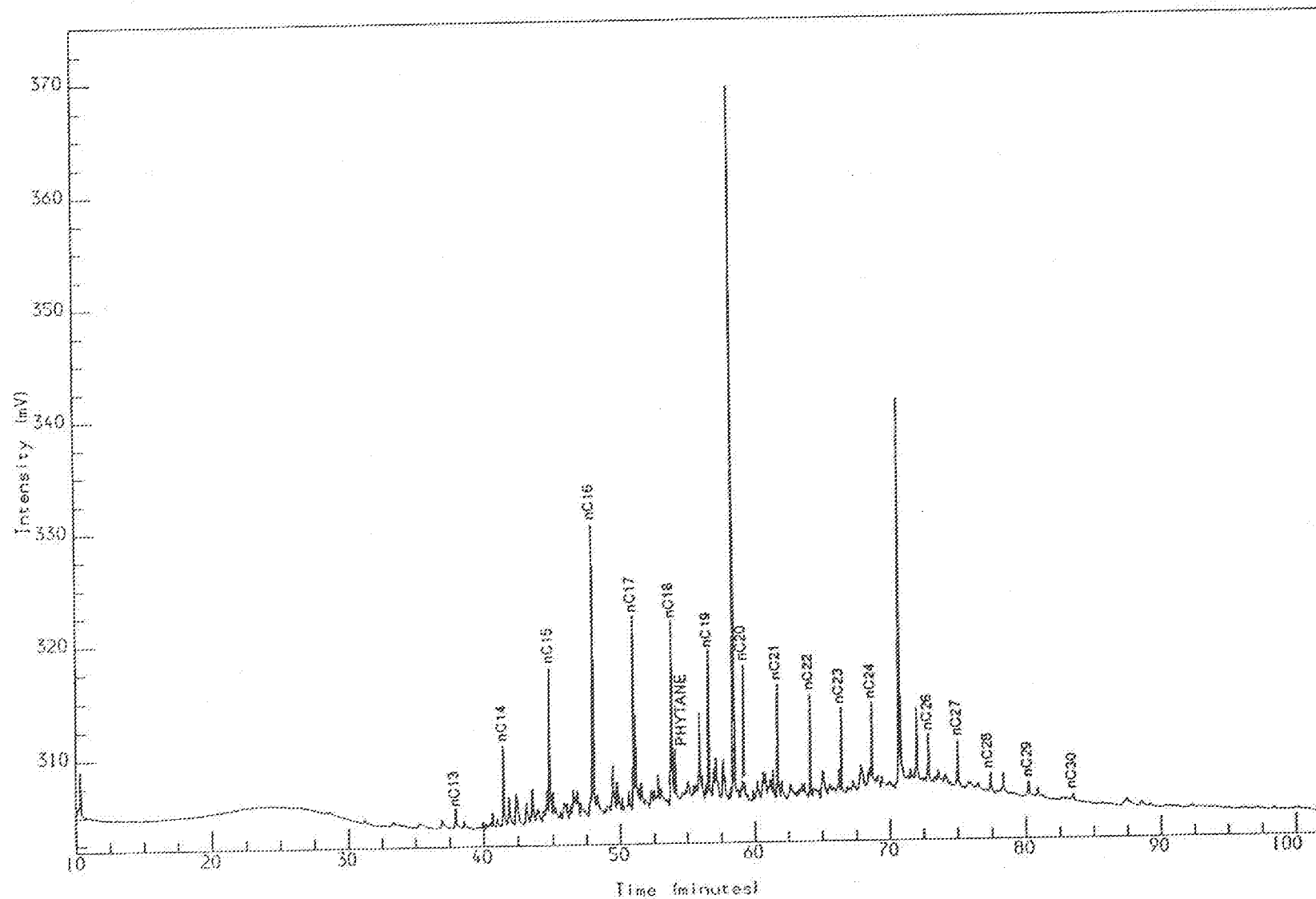
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0427075.1.1.

Multichrom



WELL NOUS 34/10-35 4270.75m
WHOLE EOM GC (FID)

Reported on 16-SEP-1992 at 14.23

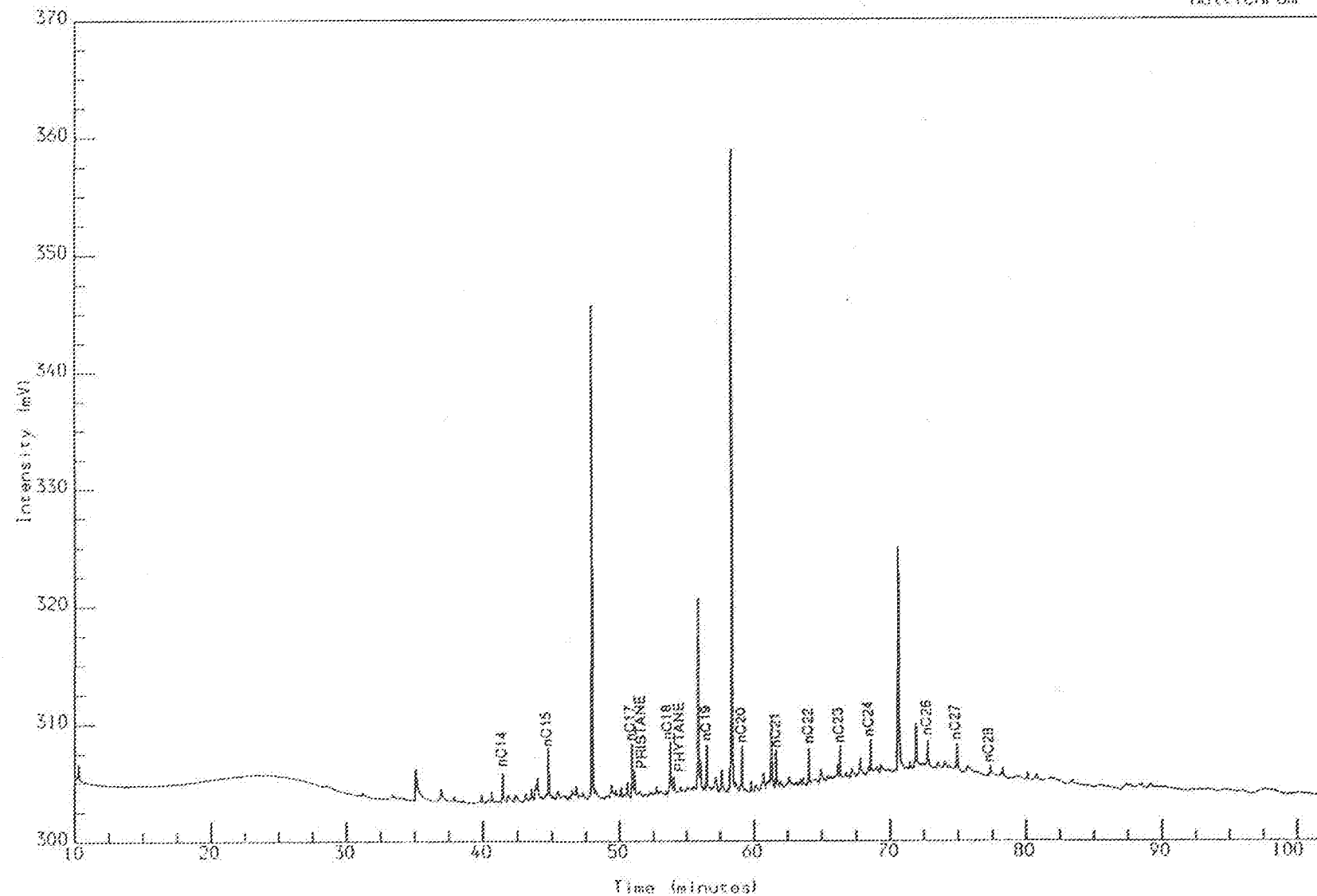
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0425747.1.1.

Multichrom



WELL NDCS 34/10-35 4257.47m
WHOLE EOH GC (FID)

Reported on 16-SEP-1992 at 12:08

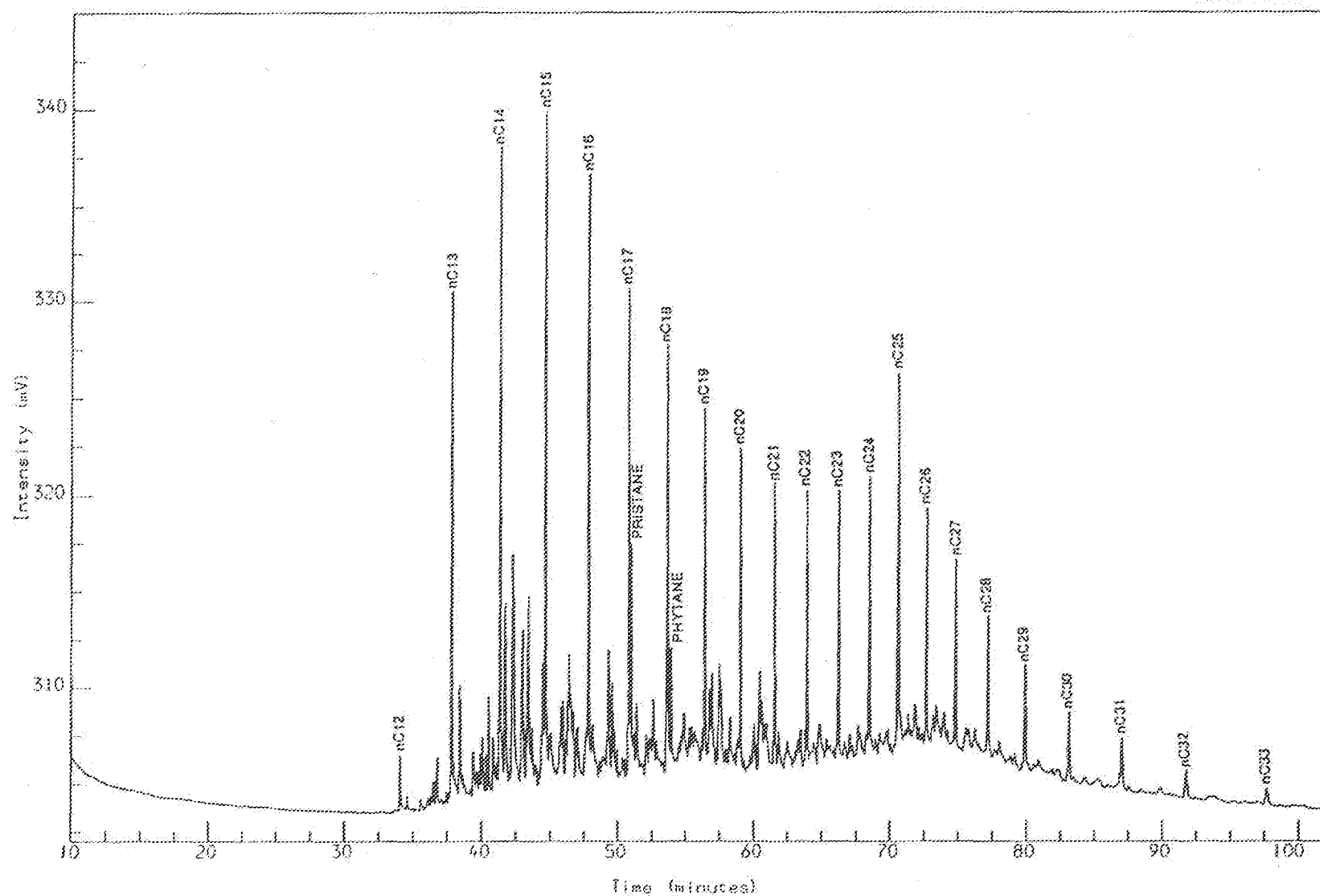
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0402193,1,1.

Multichrom



WELL NOCS 34/10-35 4021.93m
WHOLE EOM GC (FID)

Reported on 24-SEP-1992 at 09:21

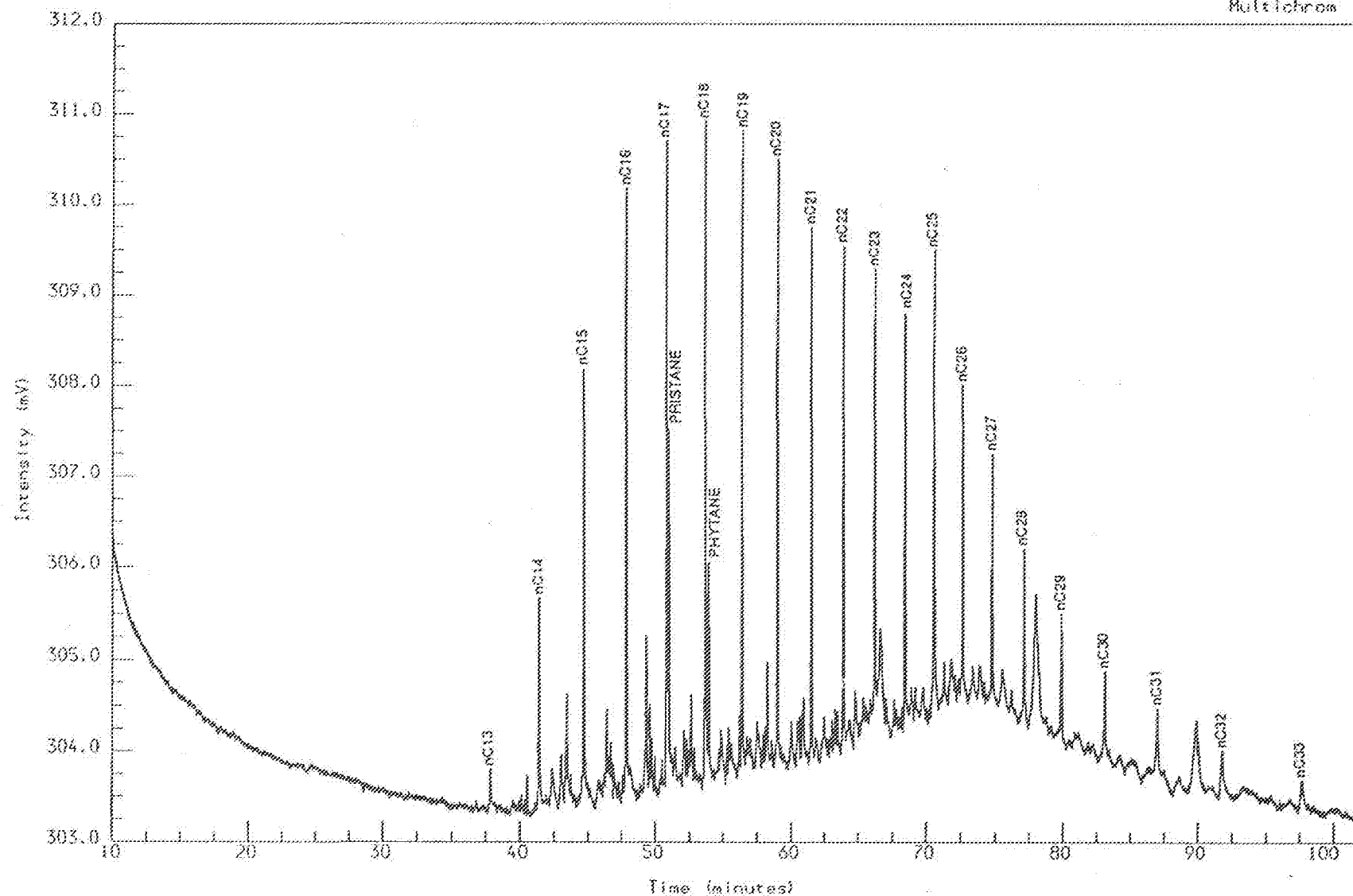
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0400617.1.1.

Multichrom



WELL NOCS 34/10-35 4006.17m
WHOLE EON 6C (F10)

Reported on 23-SEP-1992 at 15.33

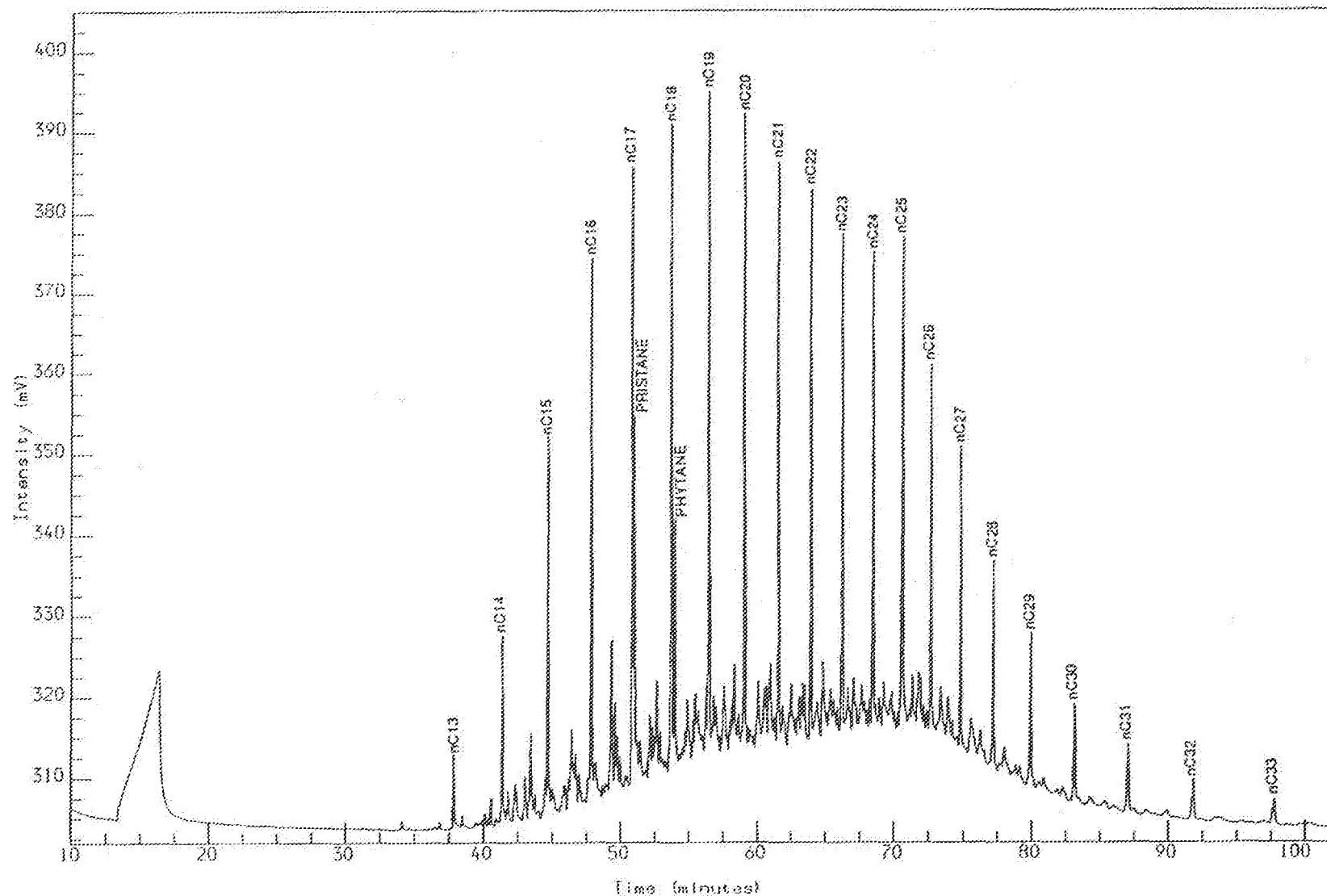
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0399405.1.1.

Multichrom



WELL NOCS 34/10-35 3994.05m
WHOLE EOM GC (FID)

Reported on 23-SEP-1992 at 13:29

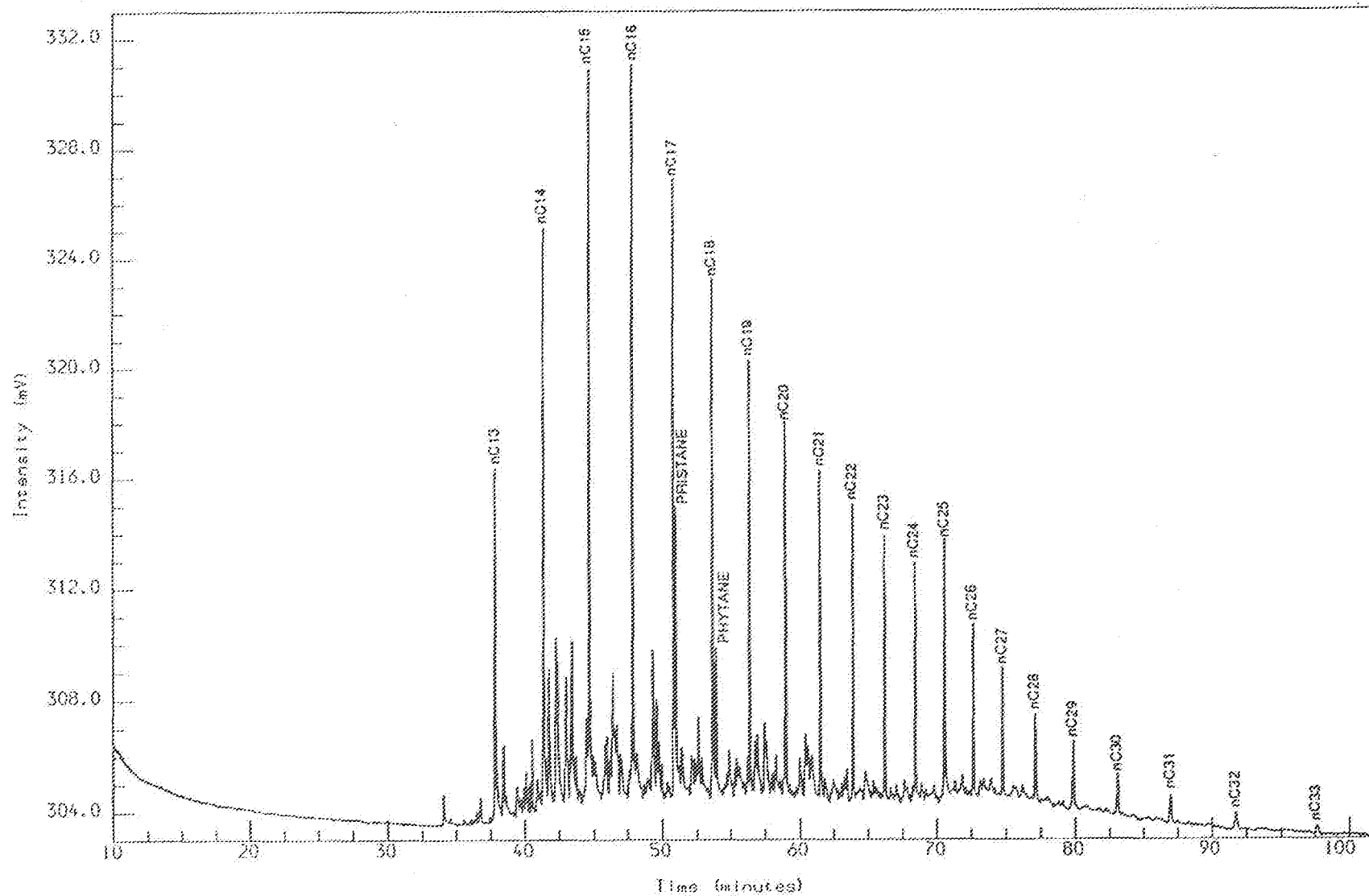
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0393316.1.1.

Multichrom



WELL NOCS 34/10-35 3933.18m
WHOLE EDM GC (FID)

Reported on 23-SEP-1992 at 11:21

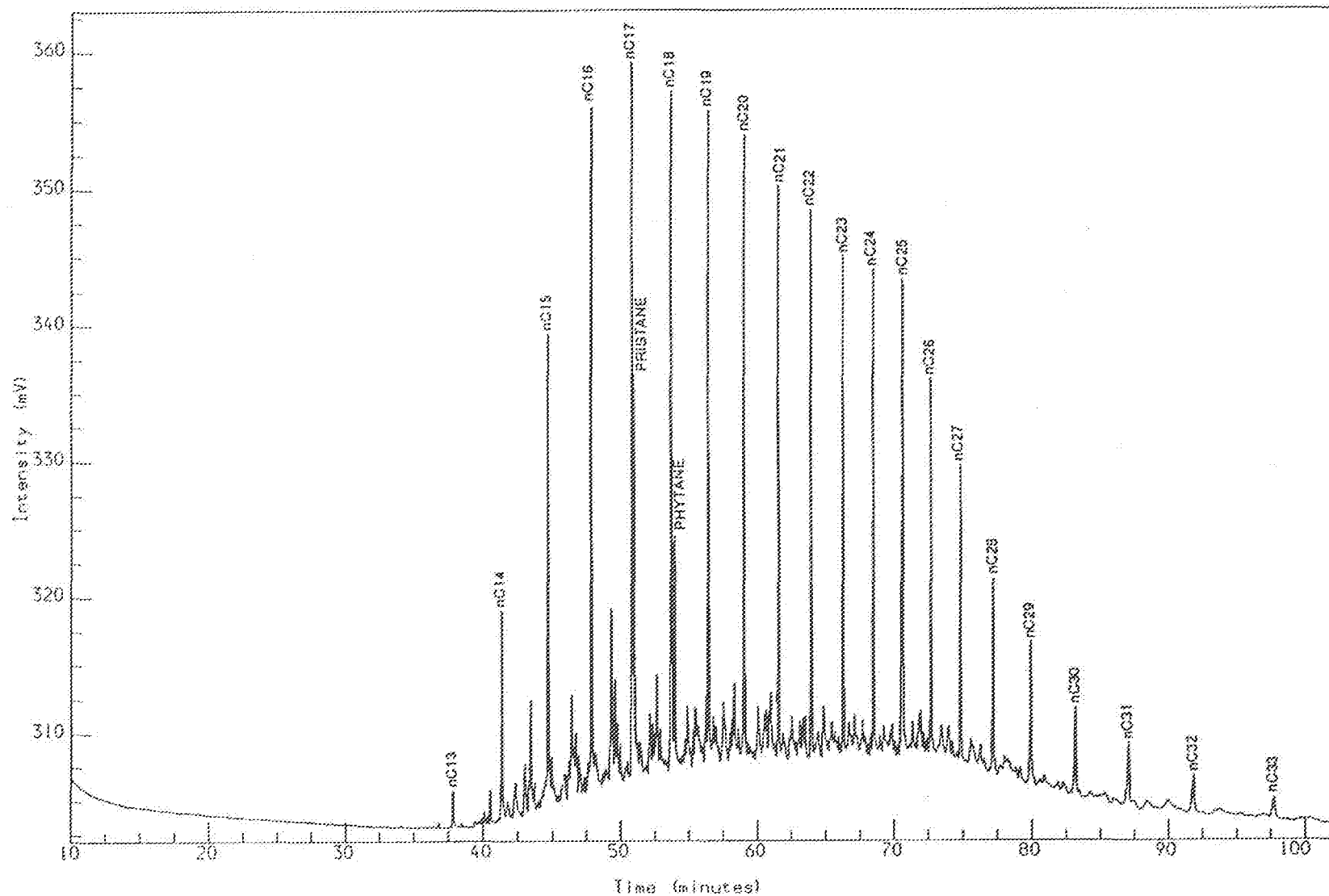
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0393171.1.1.

Multichrom



WELL NOES 34/10-35 3931.71m
WHOLE EDM GC (FID)

Reported on 23-SEP-1992 at 09:07

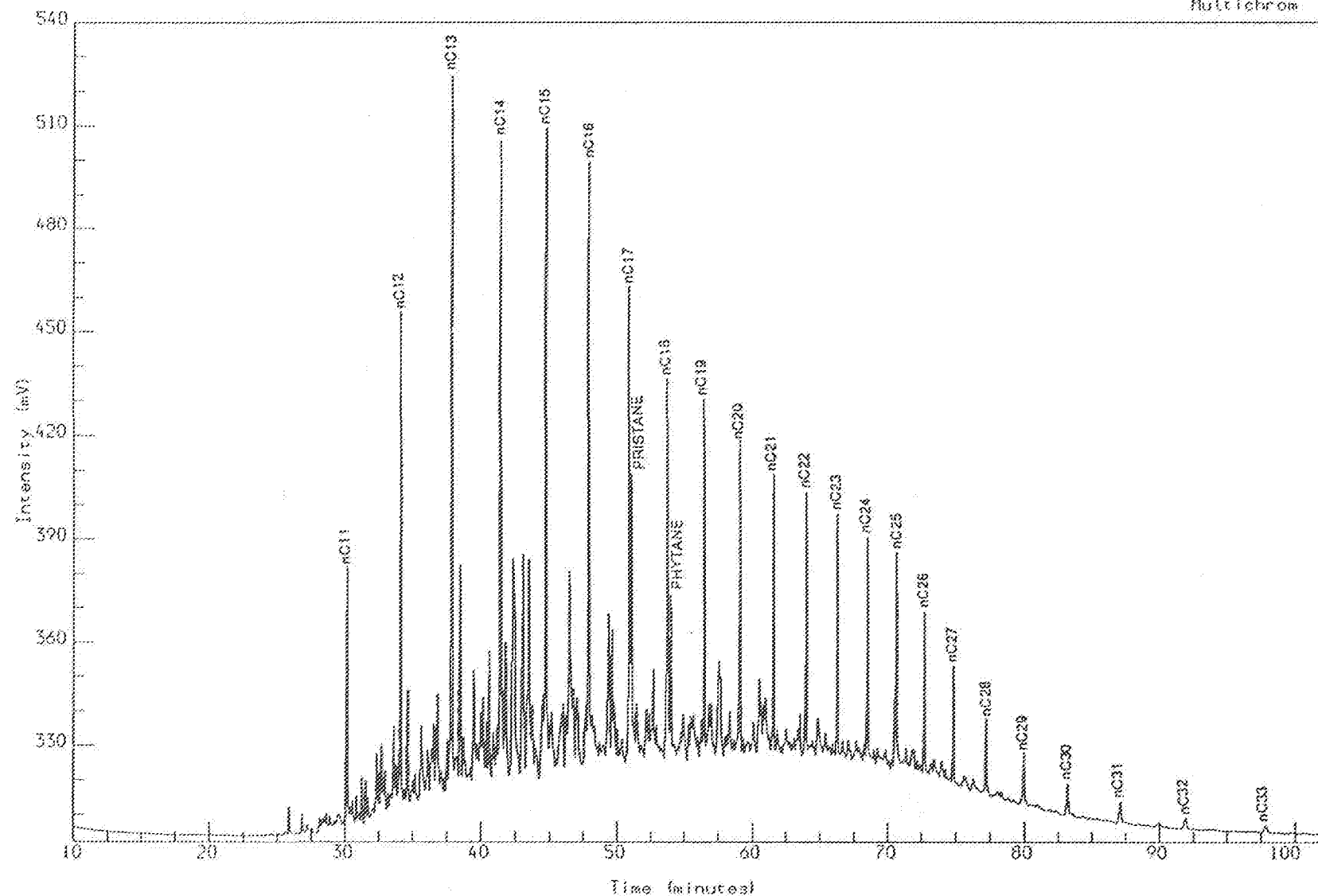
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03894,1,1.

Multichrom



WELL NOCS 34/10-35 3894.00m
WHOLE EOM GC (FID)

Reported on 31-AUG-1992 at 01:26

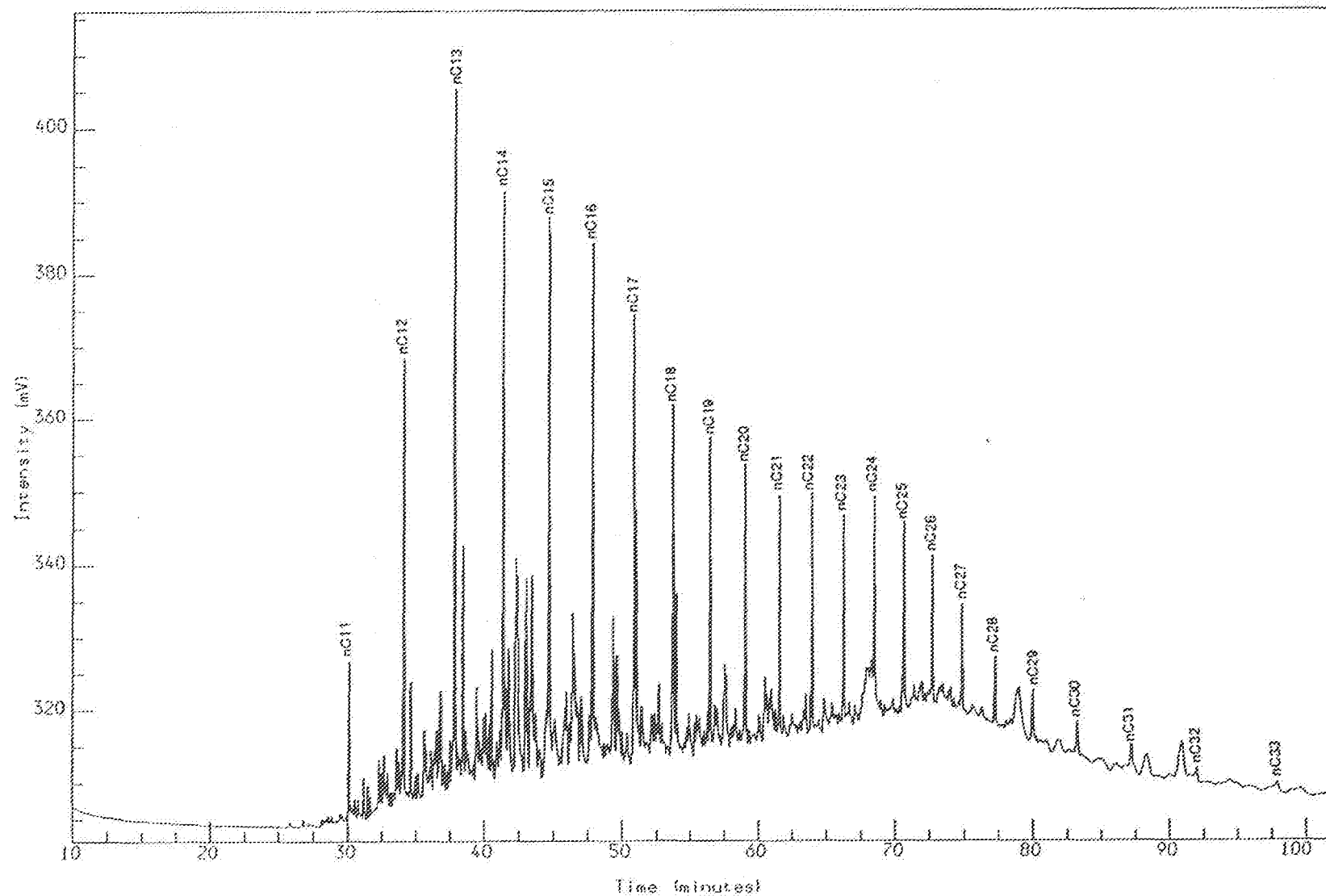
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03885.1.1.

Multichrom



WELL NDCS 34/10-35 3885.00m
WHOLE EOM GC (FID)

Reported on 31-AUG-1992 at 01:25

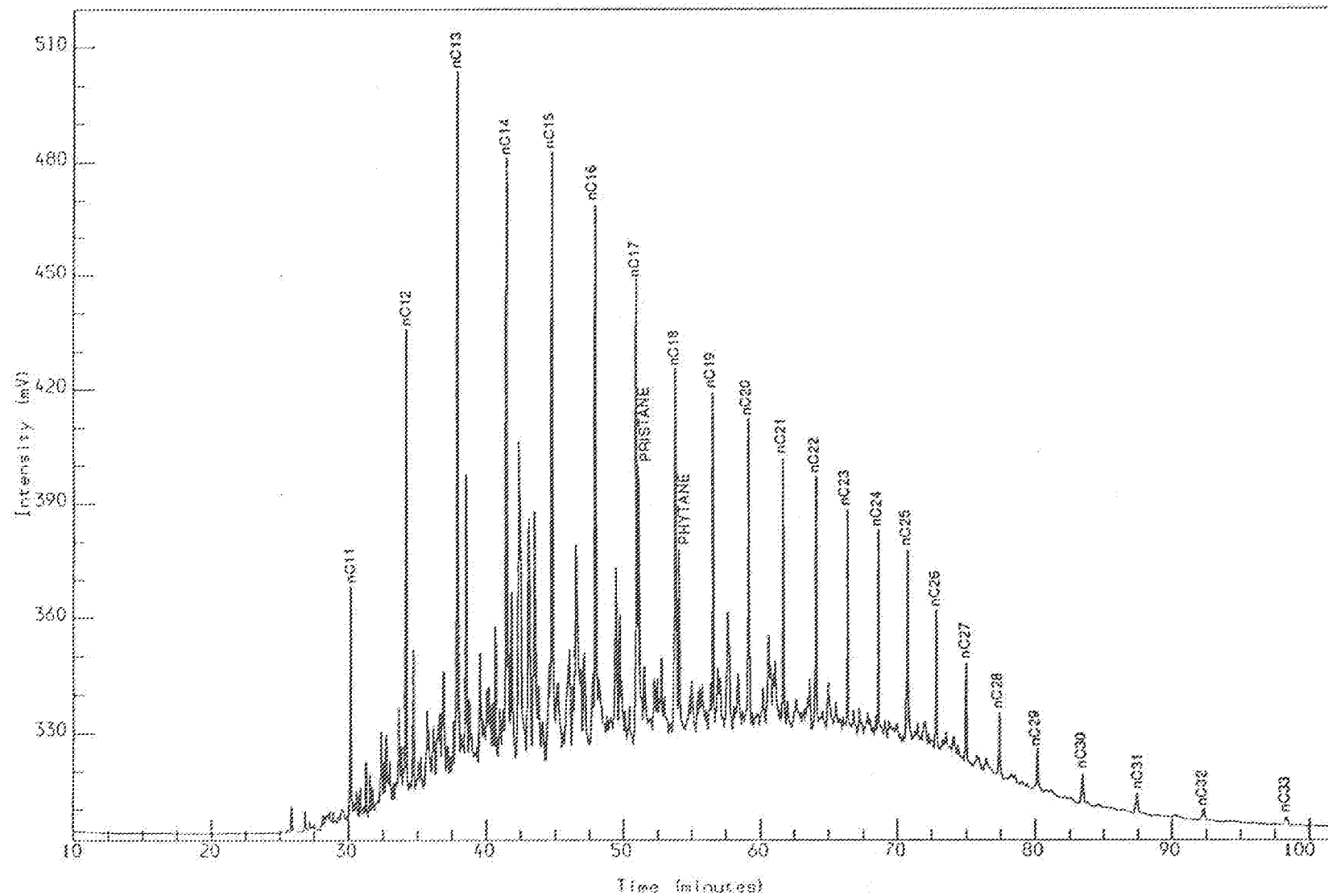
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03852,1,1.

Multichrom



WELL NOCS 34/10-35 3852.00m
WHOLE EOH GC (FID)

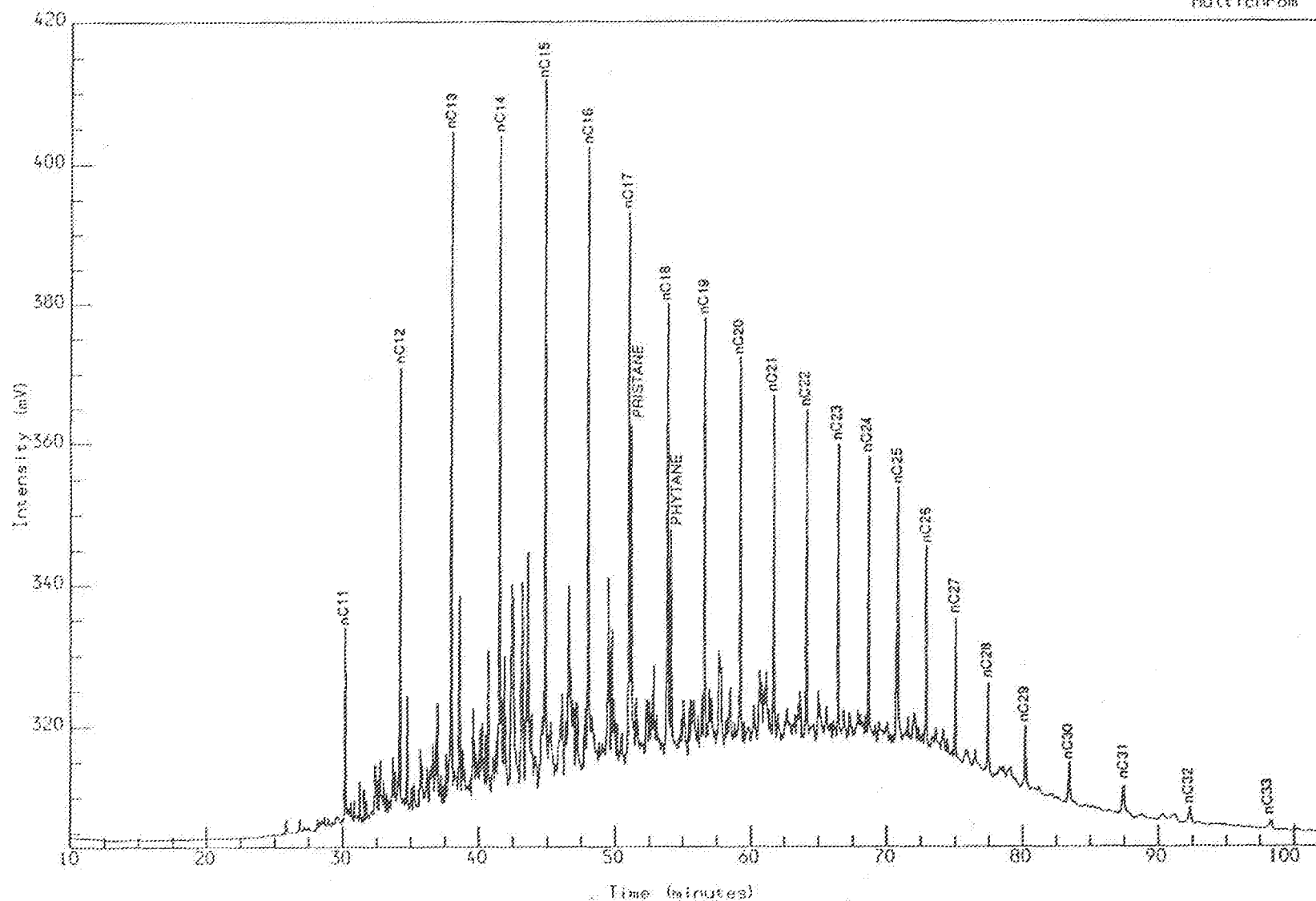
Reported on 18-SEP-1992 at 12:08

Schlumberger GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W03831.1.1.

Multichrom



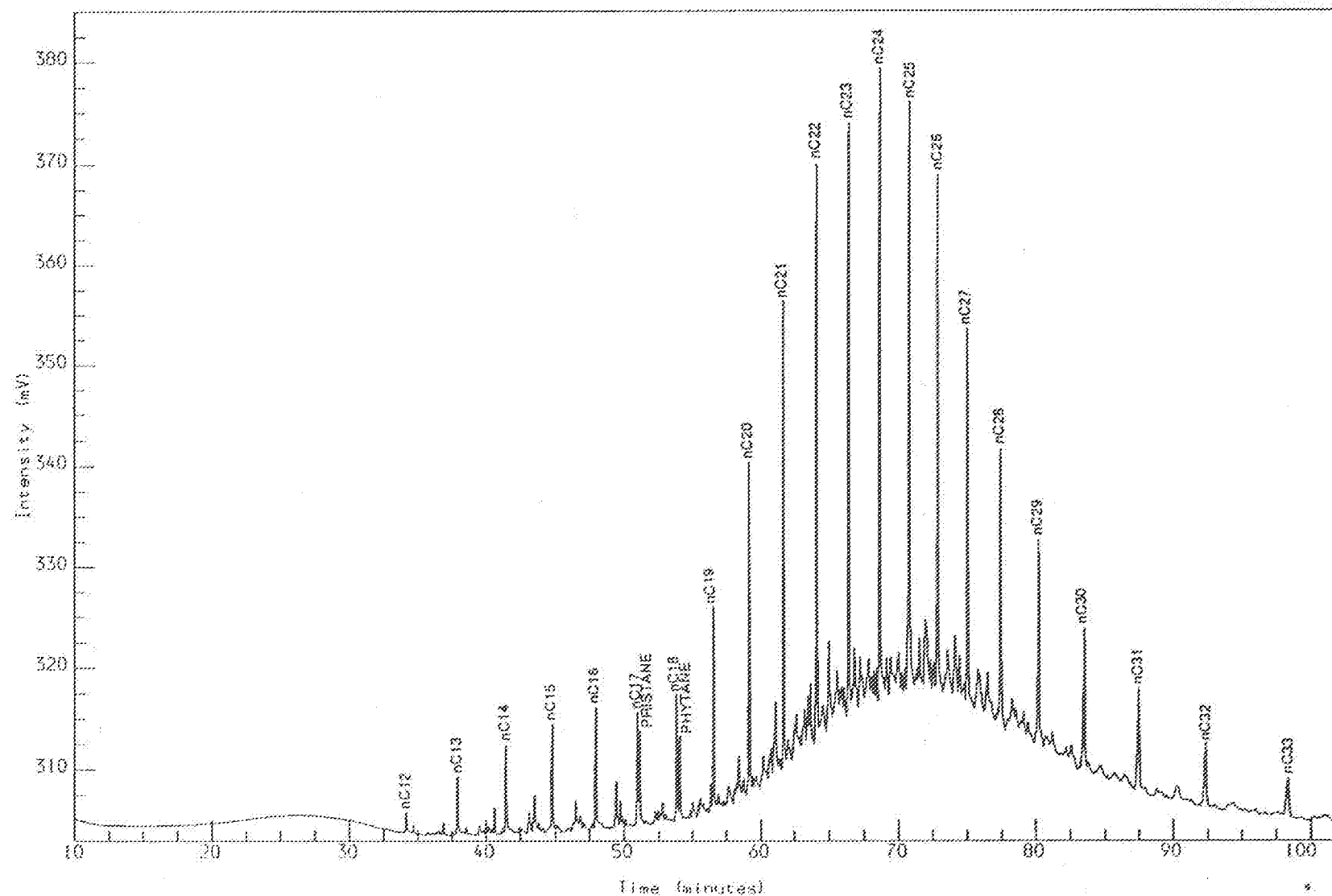
WELL NDCS 34/10-35 3831.00m
WHOLE EOH GC (FID)

Reported on 18-SEP-1992 at 10:06

Schlumberger

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GEOLAB NOR



WELL NDCS 34/10-35 3530.00m
WHOLE EDM GC (FID)

Reported on 17-SEP-1992 at 14:55

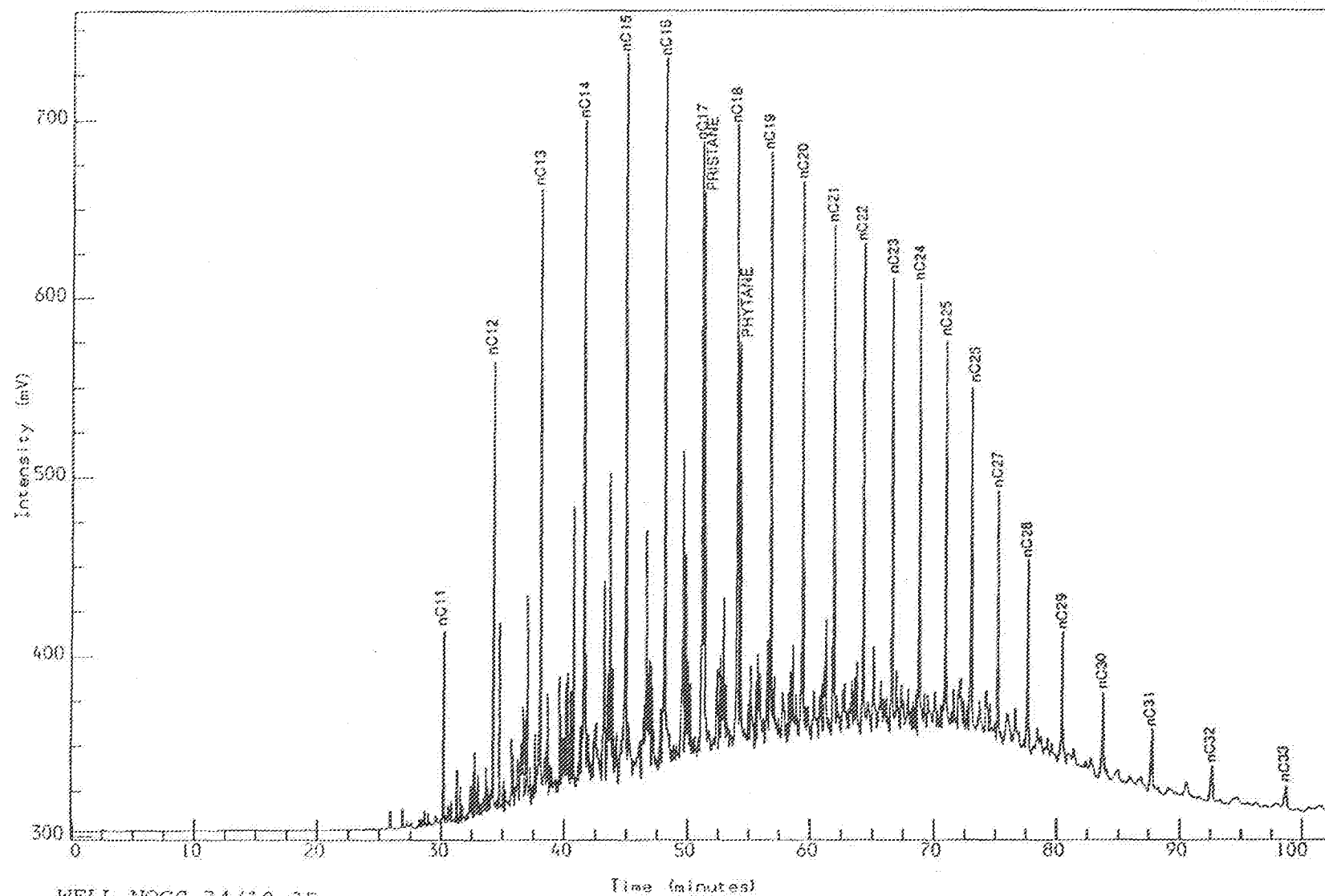
Schlumberger

GECO-PRAKLA

GEOLAB NOR

Analysis Name : [526265] 31 W0341035.1.1.

Multichrom



WELL NOCS 34/10-35
OIL IN MUD
WHOLE OIL GC (FID)

Reported on 16-SEP-1992 at 09:49

Schlumberger

GECO-PRAKLA

GEOLAB NOR