

U-702



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8. Summary/Conclusion/Recommendation  Detection of SAT-biomarkers by GC/MS-Q and GC/MS analysis of extracted rock samples from Well 6507/2-2. Results from GC/FID detected compounds are also included.  Contents: Analytical program ..... page: 2 Experimental ..... : 3 Results ..... : 10			
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## ANALYTICAL PROGRAM

The samples are prepared by the Geochem Group, Chester, UK and analysed for SAT-biomarkers by GC/MS at Hydro Research Centre, Bergen.

The analysed samples and analytical quality are listed below.

The samples which are labeled 'BIOM..' represent the internal lab reference sample. This sample is included in all analytical series and reflects the analytical repeatability.

The results are classified as OK, WEAK (but acceptable) or ND (Not Detectable)

Depth, m	Sample type	Lith.	Sample preparation	Result GC/MS-Q	Result GC/MS+FID
2831.30	COCH	SST	Geochem-8275	OK	OK
2831.80	COCH	SST	Geochem-8275	OK	OK
2832.20	COCH	SST	Geochem-8275	OK	OK
BIOM02				OK	
BIOM06				OK	
BIOM02					OK

## EXPERIMENTAL: GC/MS-Q

Analytical method:	MQS1A version Dec.1992 (Magnet-Quadropole Saturated-biomarkers 1000-resolution version-A)
	Gas chromatographic and linked magnet-quadropole mass spectrometric analysis of saturated biomarkers.

Detected compounds:	<p>Detected pre-selected groups of saturated (SAT)-biomarkers in the saturated or mixed saturated/aromatic group type fraction are listed on the next two pages.</p> <p>The relative distribution of the detected SAT-biomarkers are presented in bargraphs as measured peak heights and normalised to the most abundant compound.</p> <p>This semi-quantitative presentation is strictly related to the analytical method. The concentration/response ratio is not necessarily comparable between different type of compounds. A quantitative comparison based on the presented biomarker distributions are restricted.</p> <p>Sample information, tabulated peak data and normalised bargraphs with abbreviation codes and identities of the detected SAT-biomarkers are reported.</p>
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Method description:	<p>The analytical parameters are listed on the following pages.</p> <p>The parent ions of pre-selected SAT-biomarker compounds are mass separated by the magnet mass spectrometer. These mass selections are based on the traditional method of Voltage Selected Ion Recording (VSIR). The mass resolution is <math>R(10\%) = 1000</math> or equivalent to a mass window of approximately 0.4 mass units.</p> <p>The transition from parent to daughter ions are induced by the energy reduction prior to the quadropole mass spectrometer.</p> <p>Pre-selected daughter ions are detected by selective quadropole mass detection. The mass window is approximately 2 mass units.</p>
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Detection parameters for pre-selected, induced parent-daughter ion transitions:

Experiment method: MQS1A (Dec. 1992)	Analytical function: #1 of 2	Detected retention time interval: 0:20:00 - 0:51:50
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Cycle time: 930 ms

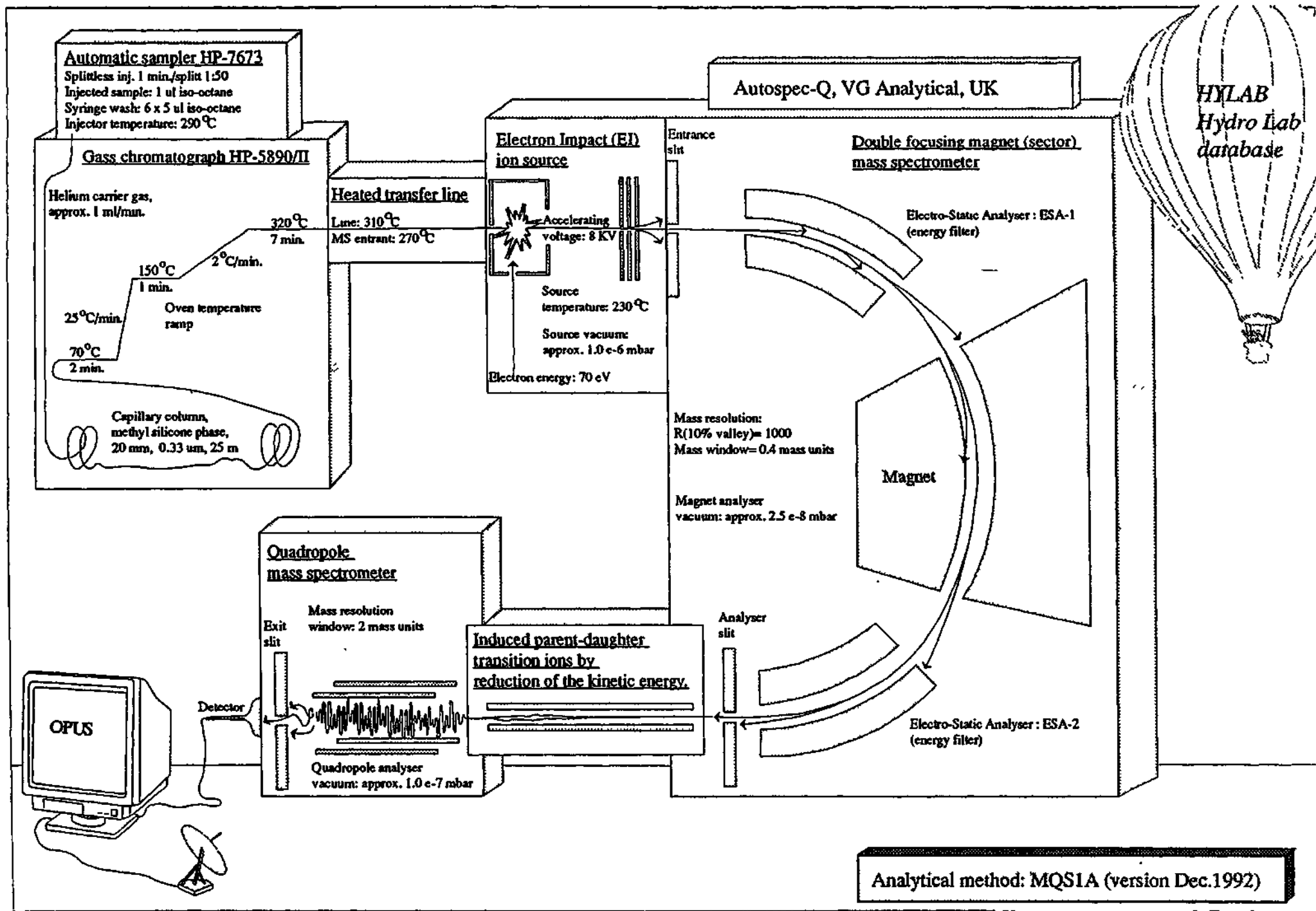
Detected compounds	Inter-channel time, ms	Parent ion, m/z	Collision energy	Daughter ion, m/z	Channel time, ms
1 C-20 Tricyclic-terpanes	50	276.28	30	191.18	40
2 C-21 Tricyclic-terpanes	30	290.28	30	191.18	40
3 C-22 Tricyclic-terpanes	30	304.31	30	191.18	40
4 C-23 Tricyclic-terpanes	30	318.33	30	191.18	40
5 C-24 Tricyclic-terpanes	30	332.34	30	191.18	40
6 C-25 Tricyclic-terpanes	30	346.35	30	191.18	40
7 C-26 Tricyclic-terpanes	30	360.38	30	191.18	40
8 C-24 Tetracyclic-terpanes	30	330.33	30	191.18	40
9 C-21 Steranes	30	288.28	30	217.2	40
10 C-22 Steranes	30	302.3	30	217.2	40
11 C-23 Steranes	30	316.31	30	217.2	40
12 PPK lock-mass for analytical stability. Primary/ secondary span lock: 2.0/1.0	30	330.98	30	330.98	40

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Experiment method: MQS1A (Dec. 1992)	Analytical function: #2 of 2	Detected retention time interval: 0:52:00 - 1:35:00
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Cycle time: 1350 ms

Detected compounds	Inter-channel time, ms	Parent ion, m/z	Collision energy	Daughter ion, m/z	Channel time, ms
1 C-27 Pentacyclic-triterpanes	50	370.38	30	191.18	40
2 C-28 Pentacyclic-triterpanes	30	384.38	30	191.18	40
3 C-29 Pentacyclic-triterpanes	30	398.38	30	191.18	40
4 C-30 Pentacyclic-triterpanes	30	412.41	30	191.18	40
5 C-31 Pentacyclic-triterpanes	30	426.42	30	191.18	40
6 C-32 Pentacyclic-triterpanes	30	440.44	30	191.18	40
7 C-33 Pentacyclic-triterpanes	30	454.45	30	191.18	40
8 C-34 Pentacyclic-triterpanes	30	468.47	30	191.18	40
9 C-35 Pentacyclic-triterpanes	30	482.48	30	191.18	40
10 C-27 Steranes	30	372.38	30	217.2	40
11 C-28 Steranes	30	386.38	30	217.2	40
12 C-29 Steranes	30	400.41	30	217.2	40
13 C-30 Steranes	30	414.42	30	217.2	40
14 C-27 Mehtyl-steranes	30	372.38	30	231.21	40
15 C-28 Mehtyl-steranes	30	386.38	30	231.21	40
16 C-29 Mehtyl-steranes	30	400.41	30	231.21	40
17 C-30 Mehtyl-steranes	30	414.42	30	231.21	40
18 PFK lock-mass for analytical stability. Primary/secondary scan lock: 2.0/1.0	30	380.98	30	380.98	40



## EXPERIMENTAL: GC/MS and FID

Analytical method:	MSD_S_B version June 1993 (Mass Spectrometric Detection Saturated-biomarkers version A)
	Gas chromatographic and linked quadropole Mass Spectrometric (MS) analysis of Saturated biomarkers. And a parallel Flame Ionization Detection (FID) of saturated compounds.
Detected compounds:	<p>Detected pre-selected groups of saturated (SAT)-biomarkers in the saturated group type fraction are listed on the next page.</p> <p>The MS-detected SAT-biomarkers are presented in mass chromatograms (fragmentograms) and normalised to the most abundant compound. Processed peak height data and standard peak ratios are reported.</p> <p>The FID-detected compounds are presented in normalized chromatograms. Standard peak ratios are reported.</p> <p>This semi-quantitative presentation is strictly related to the analytical method. The concentration/response ratio is not necessarily comparable between different type of compounds. A quantitative comparison based on the presented biomarker distributions are restricted.</p>
Method description:	<p>The samples are analysed according to the standard lab procedures for SAT-biomarker MS-detection.</p> <p>The analytical conditions are indicated on the following pages.</p> <p>The MS-detection is based on low resolution selected ion recording of a standard selection of common fragment ions. The mass window is approximately 1 mass units.</p>

Detection parameters for pre-selected, common fragmentation-ions:

Experiment method: MSD_S_B (June 1993)	Detected retention time interval: 0:10:00 - 0:70:00
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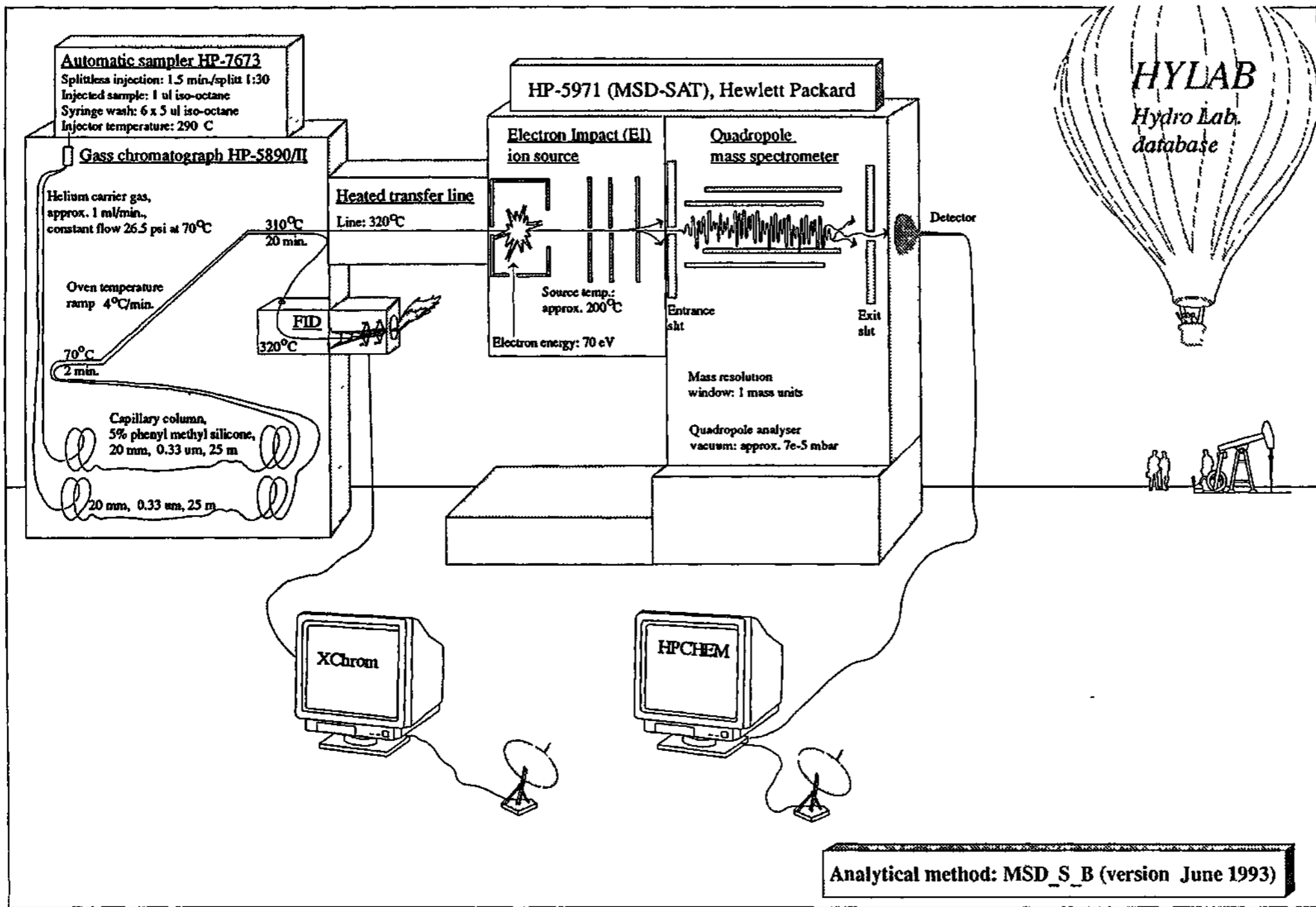
Cycle time: 1000 ms

<b>GC/FID</b>	Inter-channel time, ms	Common fragment ions, m/z	Channel time, ms
Splitting (1:1) of the injected sample			
<b>GC/MS</b>			

## Detected groups of compounds

TIC = sum of the signals from all detected ions				
1	Alkanes	15	85.1	85
2	Demethylated-terpanes	15	177.2	85
3	Terpanes	15	191.2	85
4	Methylated-terpanes	15	205.5	85
5	Steranes	15	217.2	85
6	Favourized 5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-steranes	15	218.2	85
7	Methylated-steranes	15	231.3	85
8	Favourized dia-steranes	15	259.3	85
9	D2-deuterated-terpanes (Int.std., if added)	15	193.2	85
10	D4-deuterated-steranes (Int.std., if added)	15	221.2	85





Analytical method: MSD\_S\_B (version June 1993)

## RESULTS

Internal standards are not added to these samples.

The data are presented by increasing depths and accordingly:

Results from the GC/MS-Q method: MQS1A

1. Detected compounds and annotations.
2. Normalized bargraphs of the SAT-biomarker distributions.
3. Listed peak height data of all samples.

Results from the GC/MS and GC/FID method: MSD\_S\_B

1. FID chromatograms and standard peak ratios.
2. MS-detected compounds and annotations.
3. Normalized mass chromatograms, peak height data and standard peak ratios.

The information from the sample preparation and additional analytical data are reported in:

- Supplementary geochemical analysis of core no. 1, well 6507/2-2,  
The Geochem Group, July 1993

## Results from the GC/MS-Q method: MQS1A

1. Detected compounds and annotations.
2. Normalized bargraphs of the SAT-biomarker distributions.
3. Listed peak height data of all samples.

### Detected compounds and annotations

According to 'The Norwegian Industry Guide to Organic Geochemical Analysis', Feb.1993, the identity of each biomarker compound should be abbreviated as listed below.

The old codes will be reported until the computerized data handling procedures are updated. The present analytical method will only report data which are listed as 'Old code'.

Internal standards (deuterium labeled, - if added):			
Old code	New code	Detected parent/daughter ion, m/z	Identification
D4-C21	4D21 $\alpha\alpha$	292.30 -> 221.22	D4-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-pregnane (sterane)
D2-C29	2D29 $\beta\alpha$	400.40 -> 193.19	D2-17 $\beta$ (H),21 $\alpha$ (H)-norhopane (triterpane)
D4-C27	4D27 $\alpha\alpha$ R	376.40 -> 221.22	D4-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane(20R) (sterane)
	24 $\beta\alpha\alpha$		5 $\beta$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholane

### TERPANES:

#### Diterpanes, Tricyclic C20-30:

Old code	New code	Detected parent/daughter ion, m/z	Identification
20Y	20/3	276.28 -> 191.18	C20H36 tricyclic terpane
21Y	21/3	290.28 -> 191.18	C21H38 tricyclic terpane
23Y	23/3	318.33 -> 191.18	C23H42 tricyclic terpane
24Y	24/3	330.33 -> 191.18	C24H44 tricyclic terpane
25Y	25/3	346.35 -> 191.18	C25H46 tricyclic terpane
26Y	26/3R	360.38 -> 191.18	C26H48 tricyclic terpane (22R)
26YY	26/3S	----- " -----	C26H48 tricyclic terpane (22S)
	28/3R	374.38 -> 191.18	C28H52 tricyclic terpane (22R)
	28/3S	----- " -----	C28H52 tricyclic terpane (22S)
	29/3R	388.38 -> 191.18	C29H54 tricyclic terpane (22R)
	29/3S	----- " -----	C29H54 tricyclic terpane (22S)

#### Tetracyclic C24:

Old code	New code	Detected parent/daughter ion, m/z	Identification
24X	24/4	330.33 -> 191.18	C24H42 tetracyclic terpane

continue next page...

## Pentacyclic C27-35:

Old code	New code	Detected parent/ daughter ion, m/z	Identification
27F	27Ts	370.38 -> 191.18	18 $\alpha$ (H)-22,29,30-trisnorneohopane
	25nor28 $\alpha\beta$	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-25,28,30-trisnorhopane
27A	27Tm	----- " -----	17 $\alpha$ (H)-22,29,30-trisnorhopane
27E	27 $\beta$	----- " -----	17 $\beta$ (H)-22,29,30-trisnorhopane
	25nor29 $\alpha\beta$	384.38 -> 191.18	17 $\alpha$ (H),21 $\beta$ (H)-25,30-bisnorhopane
28A	28 $\alpha\beta$	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-28,30-bisnorhopane
29N	25nor30 $\alpha\beta$	398.38 ->191.18	17 $\alpha$ (H),21 $\beta$ (H)-25-norhopane
29A	29 $\alpha\beta$	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-norhopane
29F	29Ts	----- " -----	18 $\alpha$ (H)-30-neonorhopane
29C	29 $\beta\alpha$	----- " -----	17 $\beta$ (H),21 $\alpha$ (H)-norhopane
30F	30D	412.41 -> 191.18	15 $\alpha$ -methyl-17 $\alpha$ (H)-27-norhopane
30O	30O	----- " -----	18 $\alpha$ (H)-oleanane
30A	30 $\alpha\beta$	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-hopane
30H	30D13	----- " -----	$\Delta^{13-17}$ -hopene
30C	30 $\beta\alpha$	----- " -----	17 $\beta$ (H),21 $\alpha$ (H)-hopane
30G	30G	----- " -----	Gammacerane
30E	30 $\beta\beta$	----- " -----	17 $\beta$ (H),21 $\beta$ (H)-hopane
31A	31 $\alpha\beta$ S	426.42 -> 191.18	17 $\alpha$ (H),21 $\beta$ (H)-homohopane (22S)
31B	31 $\alpha\beta$ R	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-homohopane (22R)
31D	31 $\beta\alpha$	----- " -----	17 $\beta$ (H),21 $\alpha$ (H)-homohopane
31C	30nor32 $\alpha\beta$	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-(30-nor)-bishomohopane
32A	32 $\alpha\beta$ S	440.44 -> 191.18	17 $\alpha$ (H),21 $\beta$ (H)-bishomohopane (22S)
32B	32 $\alpha\beta$ R	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-bishomohopane (22R)
33A	33 $\alpha\beta$ S	454.45 -> 191.18	17 $\alpha$ (H),21 $\beta$ (H)-trishomohopane (22S)
33B	33 $\alpha\beta$ R	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-trishomohopane (22R)
34A	34 $\alpha\beta$ S	468.47 -> 191.18	17 $\alpha$ (H),21 $\beta$ (H)-tetrakishomohopane (22S)
34B	34 $\alpha\beta$ R	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-tetrakishomohopane (22R)
35A	35 $\alpha\beta$ S	482.48 -> 191.18	17 $\alpha$ (H),21 $\beta$ (H)-pentakishomohopane (22S)
35B	35 $\alpha\beta$ R	----- " -----	17 $\alpha$ (H),21 $\beta$ (H)-pentakishomohopane (22R)

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**STERANES:**  
**Pregnanes C21-23:**

Old code	New code	Detected parent/ daughter ion, m/z	Identification
21a	21 $\alpha\alpha$	288.28 -> 217.20	C21-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-pregnane
21k	21 $\beta\beta$	----- " -----	C21-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-pregnane
22a	22 $\alpha\alpha$	302.30 -> 217.20	C22-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-pregnane
22k	22 $\beta\beta$	----- " -----	C22-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-pregnane
23a	23 $\alpha\alpha$	316.31 -> 217.20	C23-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-pregnane
23k	23 $\beta\beta$	----- " -----	C23-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-pregnane

**Steranes C27-30:**

Old code	New code	Detected parent/ daughter ion, m/z	Identification
27a	27d $\beta$ S	372.38 -> 217.20	13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20S)
27b	27d $\beta$ R	----- " -----	13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20R)
27c	27d $\alpha$ R	----- " -----	13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20R)
27d	27d $\alpha$ S	----- " -----	13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20S)
27e	27 $\alpha\alpha$ S	----- " -----	5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20S)
27f	27 $\beta\beta$ R	----- " -----	5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20R)
27g	27 $\beta\beta$ S	----- " -----	5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20S)
27h	27 $\alpha\alpha$ R	----- " -----	5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20R)
28a	28d $\beta$ SA	386.38 -> 217.20	24-methyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20S)-A
28aa	28d $\beta$ SB	----- " -----	24-methyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20S)-B
28b	28d $\beta$ RA	----- " -----	24-methyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20R)-A
28bb	28d $\beta$ RB	----- " -----	24-methyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20R)-B
28c	28d $\alpha$ R	----- " -----	24-methyl-13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20R)
28d	28d $\alpha$ S	----- " -----	24-methyl-13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20S)
28e	28 $\alpha\alpha$ S	----- " -----	24-methyl-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20S)
28f	28 $\beta\beta$ R	----- " -----	24-methyl-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20R)
28g	28 $\beta\beta$ S	----- " -----	24-methyl-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20S)
28h	28 $\alpha\alpha$ R	----- " -----	24-methyl-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20R)

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cont...			
Old code	New code	Detected parent/ daughter ion, m/z	Identification
29a	29d $\beta$ S	400.41 -> 217.20	24-ethyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20S)
29b	29d $\beta$ R	----- " -----	24-ethyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20R)
29c	29d $\alpha$ R	----- " -----	24-ethyl-13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20R)
29d	29d $\alpha$ S	----- " -----	24-ethyl-13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20S)
29e	29 $\alpha\alpha$ S	----- " -----	24-ethyl-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20S)
29f	29 $\beta\beta$ R	----- " -----	24-ethyl-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20R)
29g	29 $\beta\beta$ S	----- " -----	24-ethyl-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20S)
29h	29 $\alpha\alpha$ R	----- " -----	24-ethyl-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20R)
30a	30d $\beta$ S	414.42 -> 217.20	24-propyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20S)
30b	30d $\beta$ R	----- " -----	24-propyl-13 $\beta$ (H),17 $\alpha$ (H)-diacholestane (20R)
30c	30d $\alpha$ R	----- " -----	24-propyl-13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20R)
30d	30d $\alpha$ S	----- " -----	24-propyl-13 $\alpha$ (H),17 $\beta$ (H)-diacholestane (20S)
30e	30 $\alpha\alpha$ S	----- " -----	24-propyl-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20S)
30f	30 $\beta\beta$ R	----- " -----	24-propyl-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20R)
30g	30 $\beta\beta$ S	----- " -----	24-propyl-5 $\alpha$ (H),14 $\beta$ (H),17 $\beta$ (H)-cholestane (20S)
30h	30 $\alpha\alpha$ R	----- " -----	24-propyl-5 $\alpha$ (H),14 $\alpha$ (H),17 $\alpha$ (H)-cholestane (20R)

0 Depth	1 Depth	2 Sample	3 Lith.	4 Well	5 Geochem	6 MS-	7 26Y	8 26YY	9 25Y	10 24Y
start int	end int.	type			job #	file	360-191/2	360-191/2	346-191	332-191/1
1 BIOM02						MQS1A310893	38200	40000	105000	290000
2 2831.30	2831.30	CORE	SST	6507/2-2	8275	MQS1A310893	90200	91700	133000	578000
3 2831.80	2831.80	CORE	SST	6507/2-2	8275	MQS1A310893	133000	108000	194000	786000
4 2832.20	2832.20	CORE	SST	6507/2-2	8275	MQS1A310893	135000	136000	207000	786000
5 BIOM06						MQS1A310893	51500	50700	115000	348000

0 Depth	11 24X	12 23Y	13 22Y	14 21Y	15 20Y	16 23a	17 23k	18 22a	19 22k
start int	330-191	318-191	304-191	290-191	276-191	316-217/1	316-217/2	302-217/1	302-217/2
1 BIOM02	380000	594000	0.01	1190000	1930000	725000	240000	2410000	1800000
2 2831.30	1790000	1200000	0.01	2930000	9260000	960000	212000	3900000	1620000
3 2831.80	2720000	1670000	0.01	4190000	12300000	1420000	291000	5500000	2310000
4 2832.20	2490000	1780000	0.01	3810000	12900000	1470000	272000	5650000	2360000
5 BIOM06	412000	735000	0.01	1310000	1980000	845000	327000	2540000	1970000

0 Depth	20 21a	21 21k	22 35A	23 35B	24 34A	25 34B	26 33A	27 33B
start int	288-217/1	288-217/2	482-191/1	482-191/2	468-191/1	468-191/2	454-191/1	454-191/2
1 BIOM02	4480000	7610000	137000	82200	233000	172000	631000	416000
2 2831.30	5980000	9300000	67200	46200	236000	176000	759000	559000
3 2831.80	8540000	13000000	115000	93200	441000	329000	1280000	973000
4 2832.20	8560000	13400000	146000	108000	525000	388000	1520000	1170000
5 BIOM06	5050000	8090000	210000	154000	379000	263000	1010000	696000

0 Depth	28 32A	29 32B	30 31A	31 31B	32 31C	33 31D	34 30F	35 30O
start int	440-191/1	440-191/2	426-191/1	426-191/2	426-191/3	426-191/4	412-191	412-191
1 BIOM02	1400000	1040000	3420000	2490000	342000	176000.00	1360000	194000
2 2831.30	2950000	2440000	11800000	10700000	1970000	0.01	4070000	379000
3 2831.80	4970000	4190000	19200000	17800000	3270000	0.01	6590000	635000
4 2832.20	5640000	4590000	21400000	19700000	3740000	0.01	7460000	645000
5 BIOM06	2040000	1390000	4500000	3210000	430000	210000.00	1780000	296000

0 Depth	36 30A	37 30H	38 30C	39 30G	40 30E	41 29N	42 29A	43 29F	44 29C
start int	412-191	412-191	412-191	412-191	412-191	398-191	398-191	398-191	398-191
1 BIOM02	15700000.00	990000	1010000	287000	0.01	3620000	10800000.00	5800000	1890000
2 2831.30	69600000.00	2490000	6880000	769000	0.01	5540000	62900000.00	25000000	15700000
3 2831.80	1.07e+08	2000000	11400000	1160000	0.01	8620000	95900000.00	38000000	24400000
4 2832.20	1.17e+08	4460000	12100000	1240000	0.01	9250000	1.02e+08	39000000	26700000
5 BIOM06	20000000.00	1200000	1190000	387000	0.01	4440000	12500000.00	6400000	2290000



0 Depth	45 28A	46 28N	47 27F	48 27A	49 27E	50 30a	51 30b	52 30c	53 30d	54 30e
start int	384-191	384-191	370-191	370-191	370-191	414-217	414-217	414-217	414-217	414-217
1 BIOM02	11700000	0.01	10300000	7260000	440000	1290000	1010000	672000	450000	594000
2 2831.30	38600000	0.01	29700000	42400000	6070000	1370000	1110000	717000	488000	651000
3 2831.80	60600000	0.01	43600000	62000000	9300000	2150000	1700000	1120000	650000	1010000
4 2832.20	63300000	0.01	44400000	66000000	9610000	2420000	2020000	1420000	797000	1220000
5 BIOM06	13600000	0.01	11400000	7820000	497000	1600000	1290000	894000	550000	816000

0 Depth	55 30f	56 30g	57 30h	58 29a	59 29b	60 29c	61 29d	62 29e	63 29f	64 29g
start int	414-217	414-217	414-217	400-217	400-217	400-217	400-217	400-217	400-217	400-217
1 BIOM02	810000	910000	645000	10200000	7750000	2860000	4220000	2730000	3400000	4210000
2 2831.30	680000	920000	1700000	13300000	10400000	3840000	5350000	4690000	4900000	6490000
3 2831.80	950000	1380000	2910000	20600000	16200000	5700000	8070000	7690000	7000000	10300000
4 2832.20	1250000	1550000	3360000	22700000	18700000	6880000	9440000	8960000	8450000	11200000
5 BIOM06	970000	1230000	898000	12500000	9480000	3350000	5320000	3300000	4400000	4900000

0 Depth	65 29h	66 28a	67 28aa	68 28b	69 28bb	70 28c	71 28d	72 28e	73 28f	74 28g
start int	400-217	386-217	386-217	386-217	386-217	386-217	386-217	386-217	386-217	386-217
1 BIOM02	2510000	8000000	8620000	5700000	7060000	3500000	3500000	1840000	4540000	3900000
2 2831.30	14900000	12300000	13000000	9300000	10700000	5600000	4850000	4180000	11600000	5000000
3 2831.80	24200000	19000000	20300000	16000000	16700000	8610000	7720000	6320000	17800000	7500000
4 2832.20	27500000	18500000	20200000	15500000	16800000	8520000	8280000	6790000	18900000	8100000
5 BIOM06	3250000	9600000	10000000	6500000	7830000	4230000	3880000	2100000	5410000	4800000

0 Depth	75 28h	76 27a	77 27b	78 27c	79 27d	80 27e	81 27f	82 27g	83 27h	84
start int	386-217	372-217	372-217	372-217	372-217	372-217	372-217	372-217	372-217	
1 BIOM02	1910000	21600000	14700000	5120000	7180000	3410000	5040000	4610000	3400000	
2 2831.30	22500000	30700000	21700000	7620000	9710000	11500000	7000000	5300000	27500000	
3 2831.80	36200000	46300000	32000000	12200000	15500000	18300000	9800000	7840000	42100000	
4 2832.20	39600000	47600000	31500000	12700000	15400000	18700000	10900000	8650000	45000000	
5 BIOM06	2450000	25200000	16800000	5860000	8790000	4200000	5810000	5160000	4220000	

0 Depth	85 Status	86 D-MIX	87 D4-C21	88 D2-C29	89 D4-C27	90 MS-	91 Sample	92 %-TRI	93 %-L.M.	94 %-PENTA
start int		DATE	292-221	400-193	376-221	method	number	CYCL.	STERAN.	CYCLIC
1 BIOM02	OK					MQS1A	2	2	7	31
2 2831.30	OK					MQS1A	3	2	3	51
3 2831.80	OK					MQS1A	4	2	3	51
4 2832.20	OK					MQS1A	5	2	3	51
5 BIOM06	OK					MQS1A	6	2	6	32

JAN650722 5R x 97C

0	Depth start int	95 %-C27-30 STERANES	96 GROUP SUM	97 %-C29-20S
1	BIOM02	60	261613400	52
2	2831.30	43	671412300	24
3	2831.80	44	1028848200	24
4	2832.20	44	1095555000	25
5	BIOM06	61	309704200	50

## Results from the GC/MS and GC/FID method: MSD\_S\_B

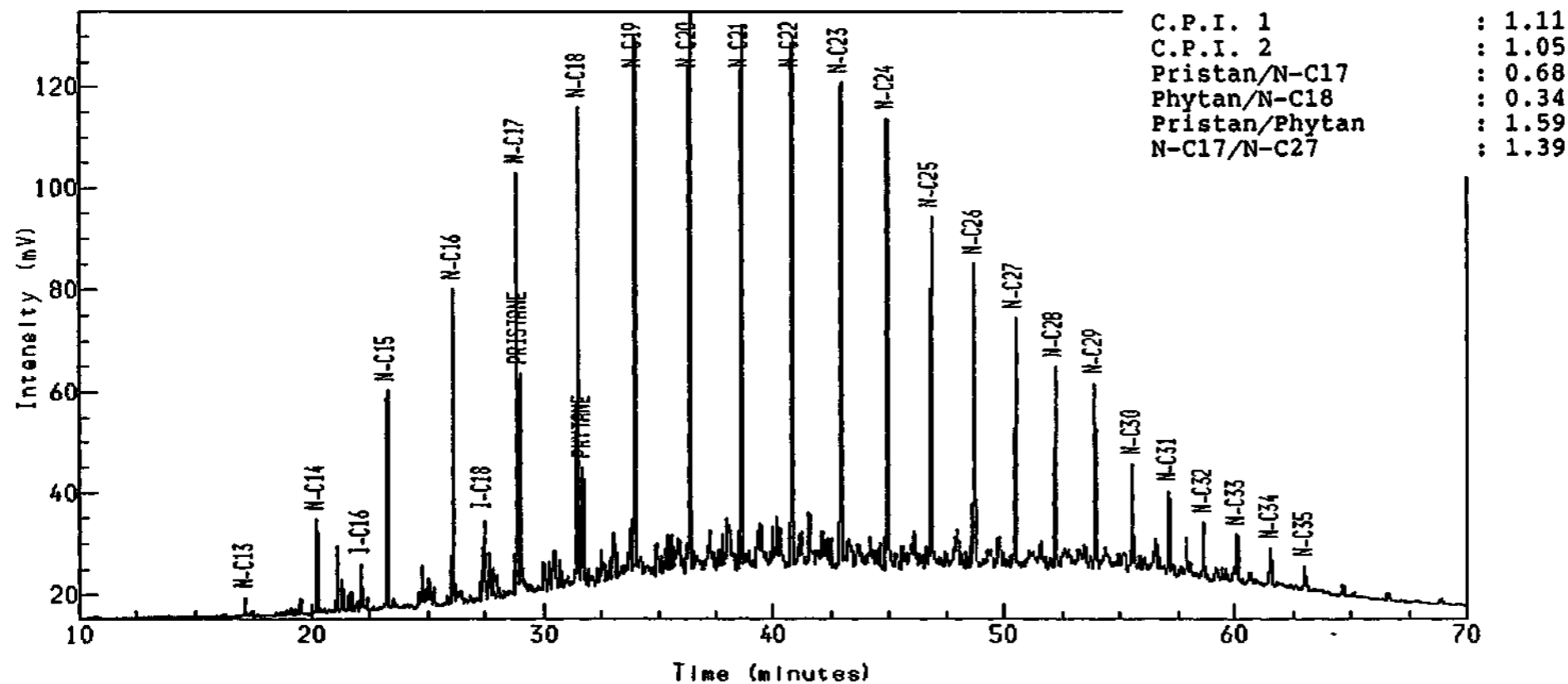
1. FID chromatograms and standard peak ratios.
2. MS-detected compounds and annotations.
3. Normalized mass chromatograms, peak height data and standard peak ratios.

Norsk Hydro Research Centre

Analysis Name : [PETRO] 7 A65070201S.3.1.

6507/2-1 2831.30 GEOCHEM 8275-04

0



Instrument : HP5890

Channel Title : SAT-FID

Lims ID :

Acquired on 1-SEP-1993 at 22.57

Reported on 2-SEP-1993 at 11.59

Method : MSDS

Calibration : MSDS

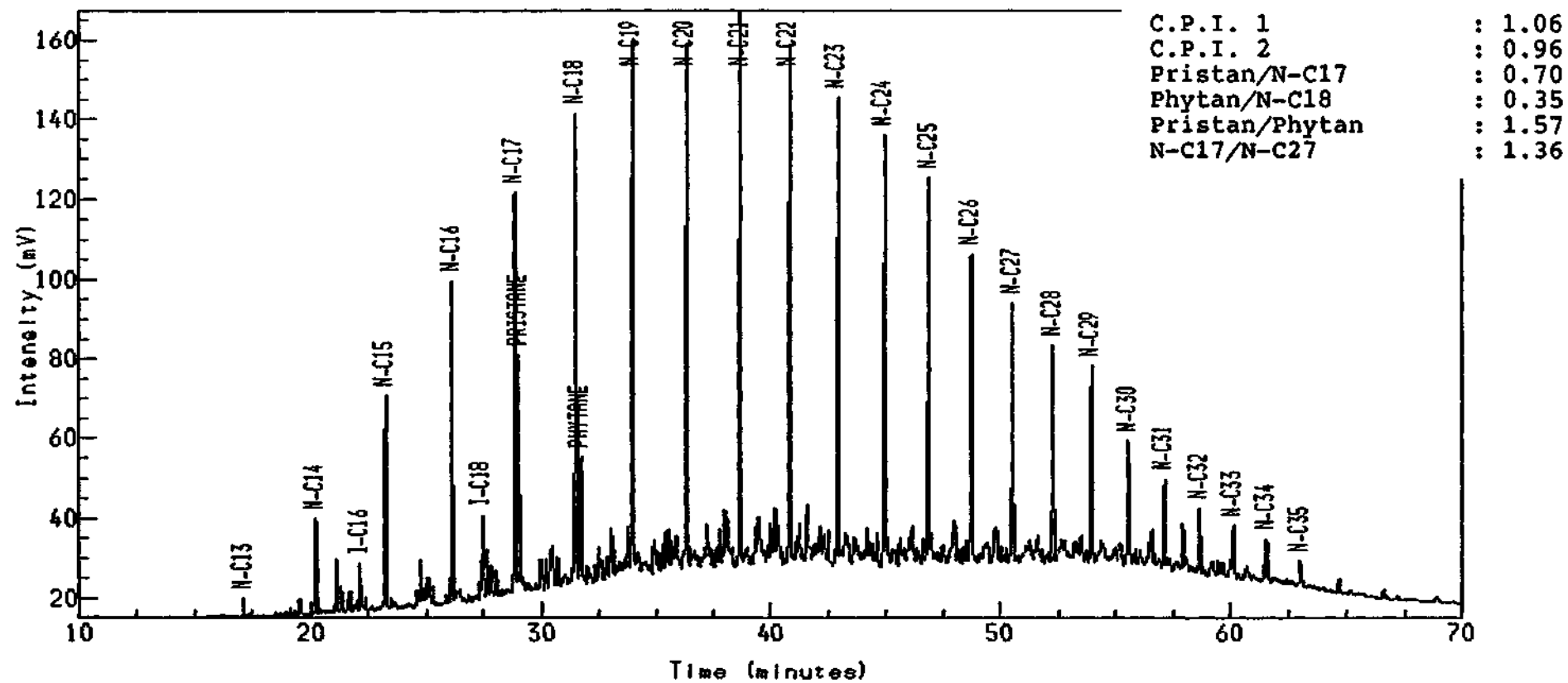
Run Sequence : MSDS

Norsk Hydro Research Centre

Analysis Name : [PETRO] 7 A65070201S,4,1.

6507/2-1 2831.80 GEOCHEM 8275-09

0

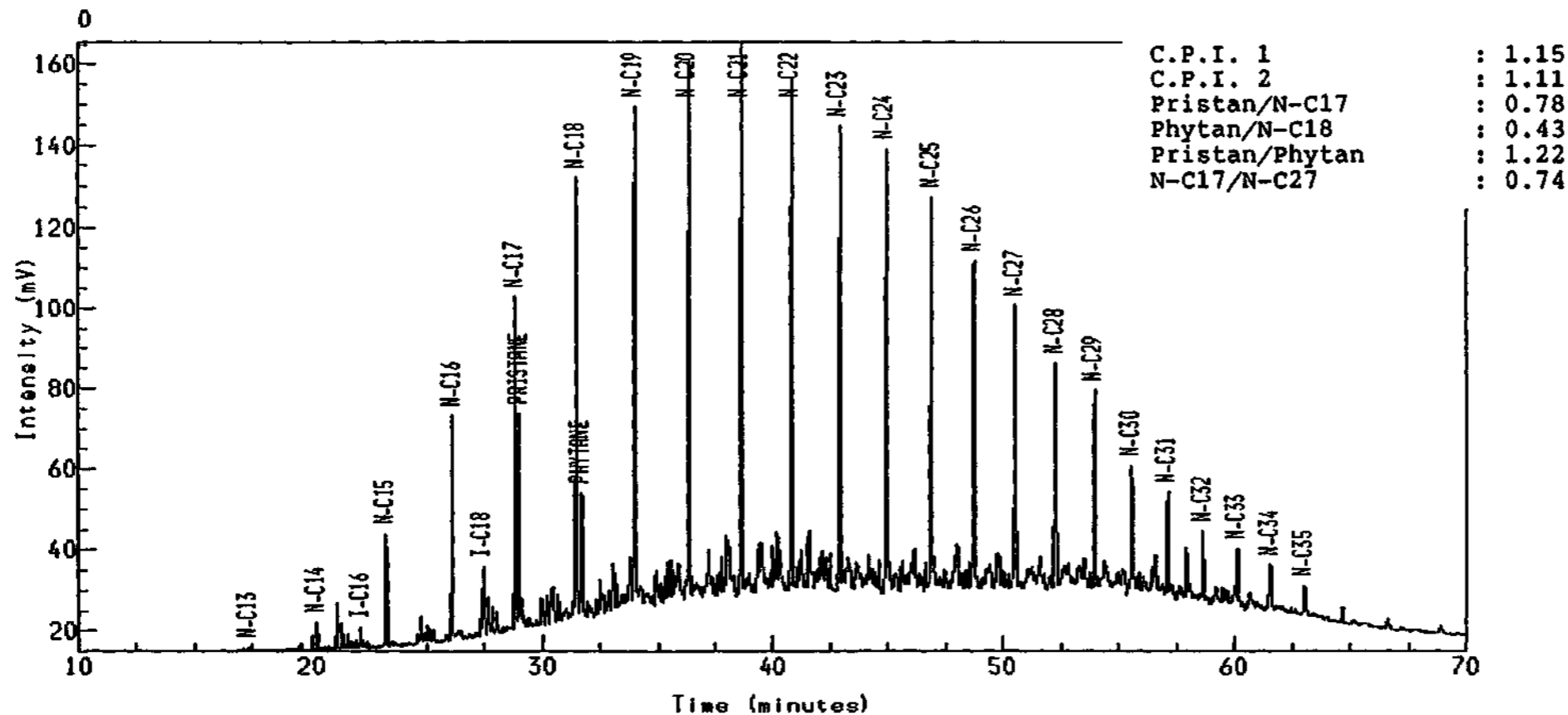


Instrument : HP5890  
 Channel Title : SAT-FID  
 Lims ID :  
 Acquired on 2-SEP-1993 at 00.25  
 Reported on 2-SEP-1993 at 12.00

Method : MSDS  
 Calibration : MSDS  
 Run Sequence : MSDS

Norsk Hydro Research Centre

Analysis Name : [PETRO] 7 A65070201S,5,1.  
6507/2-2 2832.20 GEOCHEM 8275-15



Instrument : HP5890  
Channel Title : SAT-FID  
Lims ID :  
Acquired on 2-SEP-1993 at 01:54  
Reported on 2-SEP-1993 at 12:01

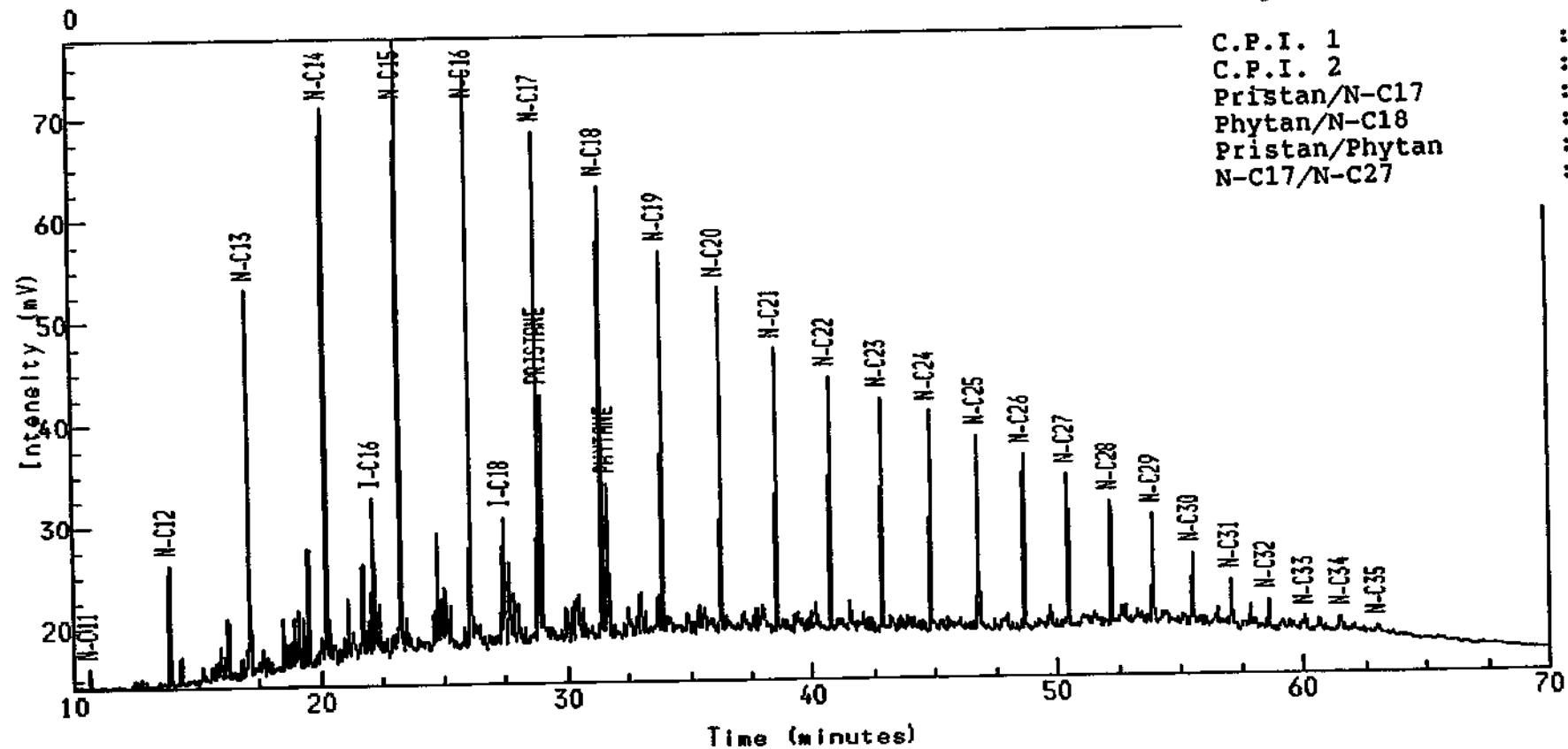
Method : MSDS  
Calibration : MSDS  
Run Sequence : MSDS

Norsk Hydro Research Centre

Analysis Name : [PETRO] 7 A65070201S.2.1.

BIOM02

Sample name : BIOM02



Instrument : HP5890  
 Channel Title : SAT-FID  
 Lims ID :  
 Acquired on 1-SEP-1993 at 21:28  
 Reported on 2-SEP-1993 at 11:58

Method : MSDS  
 Calibration : MSDS  
 Run Sequence : MSDS

NORSK HYDRO Research Centre, Bergen \_\_\_\_\_ Petroleum Geochemistry Group

Peak #	Rt min	Ion m/z	Compound	Height
<b>Int.Std.(if added):</b>				
1	40.04	221.00	4D21aa	3
2	56.45	193.00	2D29ba	8
3	52.29	221.00	4D27aaR	3
4	46.12	217.00	24baa	4
<b>DITERPANES:</b>				
5	34.02	191.00	19/3	146
6	35.98	191.00	20/3	97
7	37.98	191.00	21/3	82
11	41.92	191.00	23/3	95
13	43.02	191.00	24/3	96
14	45.27	191.00	25/3	34
16	46.88	191.00	26/3R	35
17	47.02	191.00	26/3S	33
20	50.56	191.00	28/3R	80
21	50.78	191.00	28/3S	27
23	51.65	191.00	29/3R	66
25	51.82	191.00	29/3S	29
15	46.78	191.00	24/4	195
<b>TRITERPANES:</b>				
26	52.65	191.00	27Ts	333
28	52.91	177.00	25nor28ab	377
29	53.33	191.00	27Tm	598
33	53.93	191.00	27b	97
32	53.69	177.00	25nor29ab	88
34	54.85	191.00	28ab	549
36	54.85	177.00	25nor30ab	107
39	55.56	191.00	29ab	1533
40	55.66	191.00	29Ts	512
43	56.36	191.00	29ba	416
42	55.92	191.00	30D	232
46	56.92	191.00	30ab	2637
47	57.26	191.00	30D13	224
48	57.53	191.00	30ba	508
51	59.01	191.00	30G	217
49	58.49	191.00	31abS	750
50	58.67	191.00	31abR	706
52	59.18	191.00	31ba	195
53	59.69	191.00	32abS	355
54	59.97	191.00	32abR	284
55	61.11	191.00	33abS	169
56	61.48	191.00	33abR	122
57	62.60	191.00	34abS	96
58	63.08	191.00	34abR	57
59	64.27	191.00	35abS	31
60	64.94	191.00	35abR	161

**SATURATE BIOMARKERS**

File name (sample): 2831_30.D
File path: C:\HPCHEM\1\DATA\SATA650721S\
Misc information:
Sample name: 6507/2-2 Geochem-8275-04
Operator: Ame
Method: MSD_S_C
Date analyzed: 1-Sep-93

Peak #	Rt min	Ion m/z	Compound	Height
<b>STERANES:</b>				
8	38.50	217.00	21aa	97
9	40.13	217.00	21bb	105
10	40.25	217.00	22aa	85
12	42.46	217.00	22bb	55
18	48.70	217.00	27dbS	235
19	49.33	217.00	27dbR	143
22	51.65	218.00	27bbR	155
24	51.80	218.00	27bbS	100
27	52.19	217.00	27aaR	347
30	53.37	218.00	28bbR	103
31	53.52	218.00	28bbS	104
35	54.47	217.00	29aaS	118
37	54.79	218.00	29bbR	139
38	54.88	218.00	29bbS	122
41	55.49	217.00	29aaR	317
44	55.95	218.00	30bbR	34
45	56.00	218.00	30bbS	31



NORSK HYDRO Research Centre, Bergen — Petroleum Geochemistry Group

Peak #	Rt min	Ion m/z	Compound	Height
<b>Int.Std.(if added):</b>				
1	40.20	221.00	4D21aa	1
2	56.39	193.00	2D29ba	2
3	52.17	221.00	4D27aaR	3
4	46.05	217.00	24baa	1
<b>DITERPANES:</b>				
5	33.99	191.00	19/3	42
6	35.94	191.00	20/3	26
7	37.95	191.00	21/3	31
11	41.88	191.00	23/3	56
13	42.99	191.00	24/3	42
14	45.27	191.00	25/3	28
16	46.85	191.00	26/3R	16
17	46.99	191.00	26/3S	19
20	50.47	191.00	28/3R	21
21	50.71	191.00	28/3S	22
23	51.61	191.00	29/3R	33
25	51.97	191.00	29/3S	29
15	46.75	191.00	24/4	42
<b>TRITERPANES:</b>				
26	52.62	191.00	27Ts	143
28	52.85	177.00	25nor28ab	103
29	53.30	191.00	27Tm	124
33	53.74	191.00	27b	24
32	53.65	177.00	25nor29ab	65
34	54.83	191.00	28ab	189
36	55.03	177.00	25nor30ab	54
39	55.53	191.00	29ab	360
40	55.63	191.00	29Ts	143
43	56.31	191.00	29ba	68
42	55.88	191.00	30D	98
46	56.89	191.00	30ab	841
47	57.23	191.00	30D13	57
48	57.50	191.00	30ba	90
51	58.98	191.00	30G	50
49	58.45	191.00	31abS	360
50	58.66	191.00	31abR	223
52	59.17	191.00	31ba	35
53	59.68	191.00	32abS	223
54	59.95	191.00	32abR	170
55	61.09	191.00	33abS	197
56	61.46	191.00	33abR	144
57	62.59	191.00	34abS	139
58	63.06	191.00	34abR	78
59	64.25	191.00	35abS	103
60	64.92	191.00	35abR	161

**SATURATE BIOMARKERS**

File name (sample): BIOM02.D
File path: C:\HPCHEM\1\DATA\SATA650721S\
Misc information:
Sample name:
Lab. ref. sample
Operator: Arne
Method: MSD S C
Date analyzed: 1-Sep-93

Peak #	Rt min	Ion m/z	Compound	Height
<b>STERANES:</b>				
8	38.44	217.00	21aa	79
9	40.09	217.00	21bb	100
10	40.21	217.00	22aa	62
12	42.43	217.00	22bb	64
18	48.67	217.00	27dbS	196
19	49.30	217.00	27dbR	117
22	51.61	218.00	27bbR	150
24	51.77	218.00	27bbS	101
27	52.16	217.00	27aaR	74
30	53.35	218.00	28bbR	94
31	53.48	218.00	28bbS	115
35	54.44	217.00	29aaS	63
37	54.76	218.00	29bbR	134
38	54.86	218.00	29bbS	121
41	55.46	217.00	29aaR	82
44	55.92	218.00	30bbR	52
45	55.97	218.00	30bbS	45

NORSK HYDRO Research Centre, Bergen \_\_\_\_\_ Petroleum Geochemistry Group

Peak #	Rt min	Ion m/z	Compound	Height
<b>Int.Std.(if added):</b>				
1	40.15	221.00	4D21aa	6
2	56.29	193.00	2D29ba	8
3	52.24	221.00	4D27aaR	5
4	46.13	217.00	24baa	3
<b>DITERPANES:</b>				
5	34.02	191.00	19/3	179
6	35.99	191.00	20/3	122
7	38.00	191.00	21/3	97
11	41.95	191.00	23/3	108
13	43.05	191.00	24/3	118
14	45.28	191.00	25/3	47
16	46.92	191.00	26/3R	48
17	47.05	191.00	26/3S	42
20	50.59	191.00	28/3R	119
21	50.81	191.00	28/3S	36
23	51.68	191.00	29/3R	80
25	52.02	191.00	29/3S	46
15	46.82	191.00	24/4	273
<b>TRITERPANES:</b>				
26	52.68	191.00	27Ts	466
28	52.94	177.00	25nor28ab	523
29	53.37	191.00	27Tm	799
33	53.96	191.00	27b	112
32	53.72	177.00	25nor29ab	110
34	54.88	191.00	28ab	709
36	55.10	177.00	25nor30ab	63
39	55.59	191.00	29ab	2083
40	55.70	191.00	29Ts	675
43	56.38	191.00	29ba	568
42	55.96	191.00	30D	342
46	56.96	191.00	30ab	3880
47	57.30	191.00	30D13	255
48	57.57	191.00	30ba	693
51	59.03	191.00	30G	313
49	58.50	191.00	31abS	1052
50	58.69	191.00	31abR	971
52	59.22	191.00	31ba	252
53	59.73	191.00	32abS	481
54	59.98	191.00	32abR	412
55	61.12	191.00	33abS	214
56	61.50	191.00	33abR	190
57	62.62	191.00	34abS	121
58	63.11	191.00	34abR	76
59	64.31	191.00	35abS	44
60	64.95	191.00	35abR	161

**SATURATE BIOMARKERS**

File name (sample): 2832_20.D
File path: C:\HPCHEM\1\DATA\SAT\A650721S\
Misc information:
Sample name: 6507/2-2 Geochem-8275-15
Operator: Arne
Method: MSD_S_C
Date analyzed: 2-Sep-93

Peak #	Rt min	Ion m/z	Compound	Height
<b>STERANES:</b>				
8	38.51	217.00	21aa	126
9	40.16	217.00	21bb	143
10	40.28	217.00	22aa	107
12	42.49	217.00	22bb	78
18	48.74	217.00	27dbS	307
19	49.37	217.00	27dbR	186
22	51.68	218.00	27bbR	215
24	51.83	218.00	27bbS	136
27	52.23	217.00	27aaR	468
30	53.40	218.00	28bbR	144
31	53.55	218.00	28bbS	154
35	54.51	217.00	29aaS	141
37	54.81	218.00	29bbR	202
38	54.91	218.00	29bbS	173
41	55.51	217.00	29aaR	428
44	55.97	218.00	30bbR	44
45	56.00	218.00	30bbS	45

NORSK HYDRO Research Centre, Bergen \_\_\_\_\_ Petroleum Geochemistry Group

Peak #	Rt min	Ion m/z	Compound	Height
<b>Int.Std.(if added):</b>				
1	40.16	221.00	4D21aa	4
2	56.26	193.00	2D29ba	4
3	52.24	221.00	4D27aaR	3
4	46.12	217.00	24baa	4
<b>DITERPANES:</b>				
5	34.02	191.00	19/3	192
6	35.99	191.00	20/3	136
7	38.00	191.00	21/3	99
11	41.93	191.00	23/3	124
13	43.04	191.00	24/3	127
14	45.28	191.00	25/3	42
16	46.92	191.00	26/3R	47
17	47.04	191.00	26/3S	42
20	50.59	191.00	28/3R	117
21	50.80	191.00	28/3S	40
23	51.68	191.00	29/3R	78
25	52.02	191.00	29/3S	48
15	46.62	191.00	24/4	255
<b>TRITERPANES:</b>				
26	52.69	191.00	27Ts	495
28	52.92	177.00	25nor28ab	520
29	53.35	191.00	27Tm	862
33	53.94	191.00	27b	135
32	53.71	177.00	25nor29ab	98
34	54.86	191.00	28ab	706
36	55.10	177.00	25nor30ab	61
39	55.59	191.00	29ab	1920
40	55.70	191.00	29Ts	708
43	56.38	191.00	29ba	587
42	55.93	191.00	30D	336
46	56.94	191.00	30ab	3828
47	57.28	191.00	30D13	282
48	57.55	191.00	30ba	748
51	59.03	191.00	30G	292
49	58.50	191.00	31abS	1087
50	58.69	191.00	31abR	986
52	59.20	191.00	31ba	265
53	59.71	191.00	32abS	486
54	59.98	191.00	32abR	358
55	61.12	191.00	33abS	201
56	61.48	191.00	33abR	176
57	62.62	191.00	34abS	116
58	63.08	191.00	34abR	76
59	64.29	191.00	35abS	45
60	64.97	191.00	35abR	161

**SATURATE BIOMARKERS**

File name (sample): 2831_80.D
File path: C:\HPCHEM\1\DATA\SAT\A650721S\
Misc information:
Sample name: 6507/2-2 Geochem-8275-09
Operator: Ame
Method: MSD_S_C
Date analyzed: 2-Sep-93

Peak #	Rt min	Ion m/z	Compound	Height
<b>STERANES:</b>				
8	38.51	217.00	21aa	135
9	40.16	217.00	21bb	144
10	40.26	217.00	22aa	107
12	42.49	217.00	22bb	73
18	48.72	217.00	27dbS	285
19	49.35	217.00	27dbR	184
22	51.68	218.00	27bbR	208
24	51.82	218.00	27bbS	130
27	52.21	217.00	27aaR	480
30	53.38	218.00	28bbR	135
31	53.54	218.00	28bbS	147
35	54.49	217.00	29aaS	149
37	54.81	218.00	29bbR	185
38	54.90	218.00	29bbS	160
41	55.49	217.00	29aaR	387
44	55.97	218.00	30bbR	40
45	56.02	218.00	30bbS	45



SA-92-2321-1

**PRELIMINARY BIOMARKER RESULTS FROM WELL 6507/2-2**

(a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)



Norsk Hydro a.s Harstad

Vår dato/Our date

5 November 1992

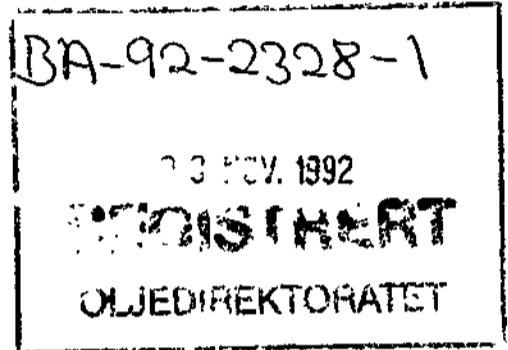
Deres dato/Your date

Vår ref./Our ref.

E&P-Div./  
JHa/Jan

Deres ref./Your ref.

To the PL 122 Exploration Committee



**PRELIMINARY BIOMARKER RESULTS FROM WELL 6507/2-2**

Due to the needs for biomarker results that may arise from the 14 round evaluation in the Nordland II area, Norsk Hydro hereby send MSD-biomarker results that are analysed for the "Routine Geochemistry Report, well 6507/2-2" and "Oil/Source Rock Correlation Study, Well 6507/2-2".

The samples analysed are:

2823.50 m, sst (core)  
2831.00 m, sst (core)  
2832.50 m, sst (core)  
  
3273.50 m, sst (core)  
3285.50 m, sst (core)  
3289.00 m, sst (core)  
  
3332.50 m, sst (core)  
3335.55 m, sst (core)  
3337.50 m, sst (core)  
  
3697.00 m, sst (core)  
  
3775.00 m, sst (core)  
3925.75 m, sst (core)  
3929.20 m, coal (core)

DST 1

Pipelax Powder (sat. extract)  
Pipelax Liquid (sat. extract)

7 biomarker standards, Oseberg oil, 30/6-15

Postadr./Postal addr.:  
P.O.Box 31  
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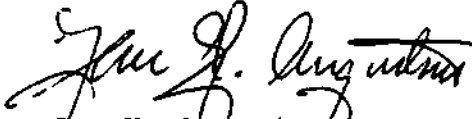
Telefax:  
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64 485  
hydro n

Hydro hopes that our partners in PL 122 will find the data useful. For interpretation of the data is referred to handouts from EC-meeting no. 6, 21.05.92, Discovery Evaluation Report, 6507/2-2 and handouts EC-meeting no. 7, 22.10.1992.

The Routine Geochemistry Report, well 6507/2-2, which unfortunately is delayed, will be sent to PL 122 in the near future.

Yours faithfully,  
For Norsk Hydro a.s



Jan H. Augustson  
chief geologist

Enclosure

Distribution list

Statoil, Harstad  
Amerada, Oslo  
Esso, Forus  
Mobil, Stavanger  
NPD, Harstad  
NPD, Stavanger

Attn.: K. Horpestad/S. Hansen  
Attn.: S.E. Sjulsen/S. Hvoslef  
Attn.: T. Valheim  
Attn.: G.K. Spencer  
Attn.: R. Olsen  
Attn.: H. Nygård

Injection Report

Acquired on 12-FEB-1992 at 12:28

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
Lims Id :  
Comment : PIPELAX TEST  
Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
Sample Name : 6507/2-2 3335.55 CORE SAT 0.5X  
Sample Id :  
Sample Type : Sample Amount=0.00000  
Bottle No : 2

PEAK INFORMATION

Peak	RT mins	RT Corr	Hght uV	Area uVs	Area %	Peak name	Width
2	11.181	11.353	830	3474	8.63E-3	N-C12	4.2
10	14.296	14.516	20460	98224	0.24	N-C13	4.2
26	17.512	17.781	103306	431080	1.07	N-C14	3.8
37	19.547	19.805	69119	304860	0.76	I-C16	4.0
44	20.693	20.946	211892	917737	2.28	N-C15	4.2
64	23.765	24.001	260849	1265073	3.14	N-C16	4.8
70	25.264	25.476	112181	670229	1.67	I-C18	5.6
76	26.704	26.893	281284	1540161	3.83	N-C17	5.1
77	26.979	27.163	177662	1011763	2.51	ERISTANE	5.4
88	29.507	29.650	286167	1521128	3.78	N-C18	5.1
89	29.824	29.963	112973	696158	1.73	RYMENE	5.6
101	32.176	32.277	317454	2129976	5.28	N-C19	5.6
103	34.723	34.783	305435	2099712	5.22	N-C20	5.6
104	37.160	37.231	292343	1882784	4.68	N-C21	5.8
107	39.488	39.569	287528	1816381	4.51	N-C22	5.6
108	41.733	41.824	263641	2014000	5.00	N-C23	6.2
109	43.885	43.986	266640	1678985	4.17	N-C24	5.8
110	45.947	46.057	242092	1756065	4.36	N-C25	6.1
	47.933	48.052	226871	1377970	3.42	N-C26	5.8
113	49.851	49.978	198682	1201783	2.99	N-C27	5.4
114	51.685	51.821	155140	969658	2.41	N-C28	5.6
115	53.461	53.605	128690	824945	2.05	N-C29	5.1
118	55.181	55.332	93223	499290	1.14	N-C30	4.5
120	56.845	57.004	63709	441434	1.10	N-C31	4.5
121	58.507	58.672	37414	211533	0.53	N-C32	4.8
124	60.323	60.496	28448	229996	0.57	N-C33	6.4

Totals			
Unknowns	1859391	12696719	31.55
Quantified	4544034	27549404	68.45
Grand Total	6403425	40246124	100.00

Sample name : 6507/2-2 3335.55 CORE SAT 0.5X

C.P.I. 1 : 1.17  
C.P.I. 2 : 1.02  
Pristan/N-C17 : 0.66  
Phytan/N-C18 : 0.46  
Pristan/Phytan : 1.45  
N-C17/N-C27 : 1.28

Injection Report

Acquired on 12-FEB-1992 at 10:58

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
 Lims Id :  
 Comment : PIPELAX TEST  
 Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
 Sample Name : 6507/2-2 3289.00 CORE SAT  
 Sample Id :  
 Sample Type : Sample Amount=0.00000  
 Bottle No : 2

PEAK INFORMATION

Pe	RT mins	RT Corr	Hght UV	Area U/S	Area %	Peak name	Width
3	11.179	11.328	1516	8967	0.01	N-C12	5.0
13	14.301	14.493	49115	252401	0.32	N-C13	4.5
27	17.547	17.781	228208	1165045	1.50	N-C14	4.8
34	19.576	19.786	144880	869994	1.12	I-C16	5.3
37	20.757	20.953	365343	2372208	3.05	N-C15	6.4
45	23.843	24.001	453149	3280219	4.21	N-C16	6.9
49	25.325	25.456	225404	617517	0.79	I-C18	2.9
53	26.797	26.901	508216	4164195	5.35	N-C17	7.5
54	27.051	27.160	359345	2496868	3.21	PRISTANE	6.7
59	29.613	29.664	513218	4053137	5.22	N-C18	7.7
60	29.915	29.960	260859	2091212	2.68	PHYTAN	6.7
63	32.288	32.289	487675	4873569	6.26	N-C19	8.2
65	34.829	34.783	485012	4037504	5.18	N-C20	7.8
67	37.259	37.231	440640	3569836	4.58	N-C21	7.8
70	39.589	39.580	405780	3409043	4.38	N-C22	7.7
71	41.816	41.825	396946	3321937	4.26	N-C23	7.5
73	43.957	43.983	362030	2790514	3.58	N-C24	7.5
74	46.016	46.058	339822	2640414	3.39	N-C25	6.9
	47.995	48.052	294869	2059927	2.64	N-C26	6.6
77	49.891	49.963	263318	1781460	2.29	N-C27	5.8
78	51.717	51.804	200050	1413391	1.81	N-C28	5.4
79	53.488	53.589	157827	1019712	1.31	N-C29	5.4
82	55.195	55.309	109788	571299	0.73	N-C30	4.6
83	56.856	56.983	75113	456640	0.59	N-C31	4.6
85	58.509	58.650	45027	271445	0.35	N-C32	4.6
87	60.320	60.475	31731	267322	0.34	N-C33	6.4

Totals			
Unknowns	3283870	24024474	30.84
Quantified	7205883	53865776	69.16
Grand Total	10489753	77890248	100.00

Sample name : 6507/2-2 3289.00 CORE SAT

C.P.I. 1	: 1.11
C.P.I. 2	: 1.03
Pristan/N-C17	: 0.60
Phytan/N-C18	: 0.51
Pristan/Phytan	: 1.19
N-C17/N-C27	: 2.34



Injection Report

Acquired on 12-FEB-1992 at 13:59

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
 Lims Id :  
 Comment : PIPELAX TEST  
 Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
 Sample Name : BIOM.STD.SAT  
 Sample Id :  
 Sample Type : Sample Amount=0.00000  
 Bottle No : 3

PEAK INFORMATION

Peak	RT mins	RT Corr	Hght uV	Area uVs	Area %	Peak name	Width
9	11.179	11.354	18285	104015	0.78	N-C12	4.8
23	14.299	14.523	68043	330348	2.47	N-C13	4.0
37	17.507	17.781	124211	513280	3.83	N-C14	3.8
43	19.528	19.810	53222	259379	1.94	I-C16	4.2
46	20.659	20.945	144213	611373	4.56	N-C15	3.8
55	23.704	24.001	142383	563606	4.21	N-C16	3.7
59	25.197	25.478	55436	300863	2.25	I-C18	4.8
63	26.621	26.886	132938	599324	4.47	N-C17	3.8
64	26.888	27.150	65704	354705	2.65	ERISIPNE	5.0
71	29.408	29.641	117237	473991	3.54	N-C18	3.8
72	29.757	29.987	44819	248881	1.86	HEMPNE	4.8
78	32.067	32.270	101467	418702	3.13	N-C19	3.7
87	34.608	34.783	91983	338993	2.53	N-C20	3.5
103	37.032	37.217	75611	273645	2.04	N-C21	3.5
119	39.365	39.561	69580	248068	1.85	N-C22	3.5
136	41.603	41.808	61008	234825	1.75	N-C23	3.8
150	43.752	43.967	60348	218080	1.63	N-C24	3.7
16	45.819	46.043	55214	206619	1.54	N-C25	3.7
178	47.819	48.052	51825	199279	1.49	N-C26	3.7
192	49.739	49.981	49359	178375	1.33	N-C27	3.7
202	51.595	51.845	42082	171314	1.28	N-C28	3.7
212	53.387	53.645	38329	138470	1.03	N-C29	3.5
225	55.125	55.391	25059	121761	0.91	N-C30	3.8
234	56.803	57.076	16061	80713	0.60	N-C31	4.2
244	58.472	58.753	6560	27252	0.20	N-C32	4.2
253	60.272	60.561	4786	45034	0.34	N-C33	7.2

Totals			
Unknowns	1123482	6135011	45.80
Quantified	1715763	7260895	54.20
Grand Total	2839245	13395906	100.00

Sample name : BIOM.STD.SAT

C.P.I. 1 : 1.01  
 C.P.I. 2 : 0.96  
 Pristan/N-C17 : 0.59  
 Phytan/N-C18 : 0.53  
 Pristan/Phytan : 1.43  
 N-C17/N-C27 : 3.36

Injection Report

Acquired on 12-FEB-1992 at 17:00

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
 Lims Id :  
 Comment : PIPELAX TEST  
 Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
 Sample Name : PIPELAX POWDER SAT  
 Sample Id :  
 Sample Type : Sample Amount=0.00000-  
 Bottle No : 5

PEAK INFORMATION

Peak	RT mins	RT Corr	Hght uV	Area uVs	Area %	Peak name	Width
6	13.845	14.240	5285	26511	0.23	N-C13	4.5
19	17.288	17.781	24897	107235	0.94	N-C14	4.5
30	19.493	19.930	5439	33490	0.29	I-C16	6.2
38	20.629	21.037	32961	156219	1.38	N-C15	4.5
57	23.672	24.001	52611	217014	1.91	N-C16	3.8
66	25.472	25.779	31737	177807	1.57	I-C18	5.8A
71	26.621	26.915	141240	693719	6.11	N-C17	3.8
72	26.869	27.160	25244	188387	1.66	PRISTANE	8.2
85	29.397	29.657	83634	320448	2.82	N-C18	3.5
86	29.741	29.997	19206	107969	0.95	HEPTANE	5.4
99	32.048	32.275	66950	282864	2.49	N-C19	3.4
115	34.587	34.783	50417	184011	1.62	N-C20	3.5
130	37.019	37.224	45156	146789	1.29	N-C21	3.4
145	39.355	39.568	44678	148353	1.31	N-C22	3.4
162	41.595	41.816	41800	144667	1.27	N-C23	3.4
175	43.747	43.976	41097	153099	1.35	N-C24	3.5
183	45.819	46.055	36251	143812	1.27	N-C25	3.7
193	47.808	48.052	33159	119349	1.05	N-C26	3.5
	49.728	49.979	28915	100905	0.89	N-C27	3.5
216	51.579	51.836	22918	86147	0.76	N-C28	3.5
227	53.381	53.646	20095	77007	0.68	N-C29	3.8
238	55.115	55.385	14130	59027	0.52	N-C30	4.0
246	56.805	57.082	12704	51245	0.45	N-C31	3.5
254	58.472	58.755	9329	37737	0.33	N-C32	3.8
268	60.285	60.575	7815	38403	0.34	N-C33	4.6

Totals			
Unknowns	1338063	7557739	66.53
Quantified	897668	3802214	33.47
Grand Total	2235731	11359953	100.00

Sample name : PIPELAX POWDER SAT

C.P.I. 1	: 1.06
C.P.I. 2	: 0.98
Pristan/N-C17	: 0.27
Phytan/N-C18	: 0.34
Pristan/Phytan	: 1.74
N-C17/N-C27	: 6.87

A T U R A T E S   R E P O R T

n a l y s i s   :   A 6 5 0 7 2 2 A

m p l e   :   21, Injection   :   1

m p l e   n a m e   :   6507/2-2 3775.0

P.I. 1	: 1.08
P.I. 2	: 1.03
istan/N-C17	: 0.42
ytan/N-C18	: 0.23
istan/Phytan	: 1.80
C17/N-C27	: 1.30

A T U R A T E S R E P O R T

n a l y s i s : A 6 5 0 7 2 2 A

m p l e : 18, Injection : 1

m p l e n a m e : 6507/2-2 3337.5

P.I. 1	: 1.09
P.I. 2	: 0.98
istan/N-C17	: 0.80
ytan/N-C18	: 0.42
istan/Phytan	: 1.50
C17/N-C27	: 0.99

A T U R A T E S   R E P O R T

n a l y s i s   :   A 6 5 0 7 2 2 A

m p l e   :   17, Injection :   1

m p l e n a m e   :   6507/2-2 3332.5

P.I. 1	: 1.09
P.I. 2	: 1.02
istan/N-C17	: 0.91
ytan/N-C18	: 0.51
istan/Phytan	: 1.31
C17/N-C27	: 0.91

A T U R A T E S   R E P O R T

n a l y s i s   :   C 6 5 0 7 2 2 S

File :   9, Injection :   1

Sample name :   6507/2-2 2832.50

P.I. 1	: 1.12
P.I. 2	: 1.00
istan/N-C17	: 0.73
ytan/N-C18	: 0.31
istan/Phytan	: 1.74
C17/N-C27	: 1.15

A T U R A T E S R E P O R T

n a l y s i s : C 6 5 0 7 2 2 S

m p l e : 12, Injection : 1

m p l e n a m e : 6507/2-2 3285.5

P.I. 1	: 1.10
P.I. 2	: 1.03
istan/N-C17	: 0.64
ytan/N-C18	: 0.37
istan/Phytan	: 1.65
C17/N-C27	: 1.92

A T U R A T E S R E P O R T

n a l y s i s : C 6 5 0 7 2 2 S

ple : 11, Injection : 1

mple name : 6507/2-2 3273.50

P.I. 1	: 1.12
P.I. 2	: 1.00
istan/N-C17	: 0.74
ytan/N-C18	: 0.44
istan/Phytan	: 1.67
C17/N-C27	: 1.43



A T U R A T E S R E P O R T

n a l y s i s : A 6 5 0 7 2 2 A

le : 15, Injection : 1

m p l e n a m e : 6507/2-2 2831.0

P.I. 1	: 1.15
P.I. 2	: 1.07
istan/N-C17	: 0.78
ytan/N-C18	: 0.32
istan/Phytan	: 1.50
C17/N-C27	: 0.86

)

A T U R A T E S R E P O R T

n a l y s i s : C 6 5 0 7 2 2 S

le : 8, Injection : 1

mple name : 6507/2-2 2823.50

P.I. 1	: 1.15
P.I. 2	: 1.02
istan/N-C17	: 0.75
ytan/N-C18	: 0.30
istan/Phytan	: 2.17
C17/N-C27	: 2.46

*Prepared for*

**PL 122**

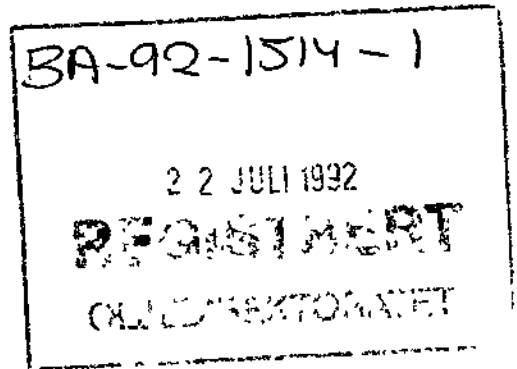
DA-92-1514-1

**RESERVOIR GEOCHEMICAL DATA,**

**WELL 6507/2-2 (HYDRO)**

**Report Number 5977**

**May 1992**



*Prepared for*

**PL 122**

**RESERVOIR GEOCHEMICAL DATA,**

**WELL 6507/2-2 (HYDRO)**

**Report Number 5977**

**May 1992**

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TABLE 1  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5977				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY		GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE
				TOTAL ORGANIC CARBON (Wt. %)

WELL: 6507/2-2

5977-001	CORE 2822.25m	A100%	SANDSTONE - fine grained, blocky, hard, sl micaceous, gold F, weak blooming cut, very light grey.	N8	
5977-002	CORE 2823.00m	A100%	SANDY CLAYSTONE - blocky, hard, non-calc, micaceous, occ sl coaly, gold F, weak blooming cut, medium dark grey to medium grey.	N4 N5	-
5977-003	CORE 2823.25m	A100%	SANDSTONE - fine grained, blocky, hard, micaceous, gold F, weak blooming cut, very light grey.	N8	
5977-004	CORE 2823.50m	A100%	SANDSTONE - fine grained, blocky, hard, sl micaceous, gold F, weak blooming cut, very light grey.	N8	
5977-005	CORE 2824.50m	A100%	SANDSTONE - as 5977-004A, gold F, rapid blooming cut, very light grey	N8	
5977-006	CORE 2825.00m	A100%	SANDSTONE - as 5977-004A, no F, rapid blooming cut, very light grey	N8	
5977-007	CORE 2825.50m	A100%	SANDSTONE - as 5977-004A, gold F, rapid blooming cut, very light grey	N8	
5977-008	CORE 2826.00m	A100%	SANDSTONE - as 5977-004A, gold F, rapid blooming cut, very light grey	N8	
5977-009	CORE 2827.00m	A100%	SANDSTONE - as 5977-004A, gold F, rapid blooming cut, very light grey	N8	
5977-010	CORE 2828.00m	A100%	SANDSTONE - as 5977-004A, gold F, rapid blooming cut, very light grey	N8	
5977-011	CORE 2830.00m	A100%	SANDSTONE - as 5977-004A, gold F, strong instant blooming cut, very light grey.	N8	
5977-012	CORE 2831.00m	A100%	SANDSTONE - as 5977-004A, gold F, strong instant blooming cut, very light grey.	N8	
5977-013	CORE 2831.75m	A100%	SANDSTONE - fine grained, blocky, hard, micaceous, pale yellow F, instant blooming cut, very light grey.	N8	
5977-014	CORE 2832.00m	A100%	SANDSTONE - as 5997-013A, pale yellow F, instant blooming cut, very light grey.	N8	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5977				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
5977-015	CORE 2832.50m	A100% SANDSTONE - as 5997-013A, pale yellow F, instant blooming cut, very light grey.	N8	
5977-016	CORE 3273.50m	A100% SANDSTONE - med grained, blocky, hard, micaceous, no F, v slow weak cut, very light grey.	N8	
5977-017	CORE 3275.25m	A100% SANDSTONE - fine grained, blocky, hard, micaceous, occ coaly laminae, no F, v slow weak cut, very light grey.	N8	
5977-018	CORE 3276.75m	A100% SANDSTONE - as 5977-017A, no F, v slow weak cut, very light grey.	N8	
5977-019	CORE 3278.00m	A100% SANDSTONE - as 5977-017A, no F, v slow weak cut, very light grey.	N8	
5977-020	CORE 3279.75m	A100% ARG SANDSTONE - fine grained, blocky, hard, no F, v slow weak cut, very light grey.	N8	
5977-021	CORE 3280.50m	A100% SANDSTONE - med to coarse grained, blocky, hard, micaceous, no F, v slow weak cut, very light grey.	N8	
5977-022	CORE 3281.00m	A100% SANDSTONE - as 5977-021A, no F, v slow weak cut, very light grey.	N8	
5977-023	CORE 3281.50m	A100% SANDSTONE - med grained, blocky, hard, micaceous, no F, v slow weak cut, very light grey.	N8	
5977-024	CORE 3282.00m	A100% SANDSTONE - as 5977-023A, no F, v slow weak cut, very light grey.	N8	
5977-025	CORE 3282.50m	A100% SANDSTONE - as 5977-023A, no F, v slow weak cut, very light grey.	N8	
5977-026	CORE 3283.00m	A100% SANDSTONE - as 5977-023A, no F, v slow weak cut, very light grey.	N8	
5977-027	CORE 3283.50m	A100% SANDSTONE - as 5977-023A, no F, v slow weak cut, very light grey.	N8	
5977-028	CORE 3284.00m	A100% SANDSTONE - as 5977-023A, no F, v slow weak cut, very light grey.	N8	
5977-029	CORE 3284.50m	A100% SANDSTONE - as 5977-023A, no F, v slow weak cut, very light grey.	N8	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very



TABLE 1  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5977					
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY		GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
5977-030	CORE 3285.00m	A100%	SANDSTONE - as 5977-023A, no F, v slow weak cut, very light grey.	N8	
5977-031	CORE 3285.50m	A100%	SANDSTONE - med grained, blocky, hard, micaceous, no F, v slow weak cut, very light grey.	N8	
5977-032	CORE 3285.75m	A100%	SANDSTONE - as 5977-031A, no F, v slow weak cut, very light grey.	N8	
5977-033	CORE 3286.25m	A100%	ARG SANDSTONE - fine to med grained, blocky, hard, micaceous, no F, v slow weak cut, medium dark grey to very light grey.	N4 N8	-
5977-034	CORE 3286.75m	A100%	PEBBLY SANDSTONE - med to coarse grained, blocky, hard, micaceous, arg, no F, v slow weak cut, medium dark grey to very light grey.	N4 N8	-
5977-035	CORE 3287.50m	A100%	SANDSTONE - fine grained, blocky, hard, micaceous, no F, v slow weak cut, very light grey.	N8	
5977-036	CORE 3288.00m	A100%	SANDSTONE - as 5977-035A, no F, v slow weak cut, very light grey.	N8	
5977-037	CORE 3288.50m	A100%	SANDSTONE - as 5977-035A, no F, v slow weak cut, very light grey.	N8	
5977-038	CORE 3288.75m	A100%	SANDSTONE - as 5977-035A, no F, v slow weak cut, very light grey.	N8	
5977-039	CORE 3290.00m	A100%	SANDSTONE - med to coarse grained, blocky, hard, micaceous, sl calc cement, no F, v slow weak cut, very light grey.	N8	
5977-040	CORE 3291.00m	A100%	ARG SANDSTONE - v fine grained, blocky, hard, v micaceous, no F, v slow weak cut, medium dark grey.	N4	
5977-041	CORE 3291.50m	A100%	SANDSTONE - fine to med grained, blocky, hard, micaceous, no F, v slow weak cut, very light grey.	N8	
5977-042	CORE 3292.00m	A100%	SANDSTONE - fine to med grained, blocky, hard, micaceous, occ coaly plant debris, arg, no F, v slow weak cut, medium grey to very light grey.	N5 N8	-

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera  
fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5977					
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY		GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
5977-043	CORE 3292.50m	A100%	SANDSTONE - as 5977-042A, no F, slow blooming cut, medium grey to very light grey.	N5 N8	-
5977-044	CORE 3292.75m	A100%	SANDSTONE - as 5977-042A, no F, slow blooming cut, medium grey to very light grey.	N5 N8	-
5977-045	CORE 3293.00m	A100%	SANDSTONE - med to coarse grained, blocky, hard, micaceous, no F, v slow weak cut, very light grey.	N8	
5977-046	CORE 3293.75m	A100%	ARG SANDSTONE - fine grained, blocky, hard, micaceous, partly coaly, no F, v slow blooming cut, medium grey.	N5	
5977-047	CORE 3295.00m	A100%	SANDSTONE - coarse grained, blocky, hard, micaceous, no F, slow blooming cut, very light grey.	N8	
5977-048	CORE 3330.20m	A100%	SANDSTONE - fine to coarse grained, blocky, firm, arg, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-049	CORE 3332.50m	A100%	SANDSTONE - as 5977-048A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-050	CORE 3333.40m	A100%	SANDSTONE - v fine grained, blocky, v hard, micaceous, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-051	CORE 3335.25m	A100%	SANDSTONE - v coarse grained, blocky, firm, sl micaceous, dull gold F, rapid blooming cut, pale yellowish brown to very light grey.	10YR6/2- N8	
5977-052	CORE 3335.50m	A100%	SANDSTONE - as 5977-051A, dull gold F, rapid blooming cut, pale yellowish brown to very light grey.	10YR6/2- N8	
5977-053	CORE 3336.50m	A100%	SANDSTONE - as 5977-051A, gold F, rapid blooming cut, pale yellowish brown to very light grey.	10YR6/2- N8	
5977-054	CORE 3337.00m	A100%	SANDSTONE - as 5977-051A, dull gold F, rapid blooming cut, pale yellowish brown to very light grey.	10YR6/2- N8	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5977				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY		GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE
				TOTAL ORGANIC CARBON (Wt. %)
5977-055	CORE 3337.25m	A100%	SANDSTONE - v coarse grained, blocky, hard, pebbly, sl micaceous, no F, rapid blooming cut, very light grey.	N8
5977-056	CORE 3337.50m	A100%	SANDSTONE - as 5977-055A, no F, rapid blooming cut, very light grey	N8
5977-057	CORE 3338.00m	A100%	SANDSTONE - med grained, blocky, hard, sl micaceous, no F, slow blooming cut, pale yellowish brown.	10YR6/2
5977-058	CORE 3338.50m	A100%	SANDSTONE - as 5977-057A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-059	CORE 3338.75m	A100%	SANDSTONE - as 5977-057A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-060	CORE 3687.00m	A100%	SANDSTONE - med grained, v hard, blocky, sl micaceous, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-061	CORE 3688.00m	A100%	SANDSTONE - as 5977-060A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-062	CORE 3690.00m	A100%	SANDSTONE - as 5977-060A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-063	CORE 3692.00m	A100%	SANDSTONE - as 5977-060A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-064	CORE 3694.00m	A100%	SANDSTONE - as 5977-060A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-065	CORE 3697.00m	A100%	SANDSTONE - as 5977-060A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-066	CORE 3700.00m	A100%	SANDSTONE - as 5977-060A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2
5977-067	CORE 3770.00m	A100%	SANDSTONE - as 5977-060A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5977					
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY		GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
5977-068	CORE 3771.00m	A100%	SANDSTONE - fine to med grained, hard, arg, blocky, micaceous, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-069	CORE 3772.50m	A100%	SANDSTONE - as 5977-068A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-070	CORE 3775.00m	A100%	SANDSTONE - as 5977-068A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-071	CORE 3777.00m	A100%	SANDSTONE - med grained, blocky, hard, arg, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-072	CORE 3921.00m	A100%	SANDSTONE - as 5977-071A, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-073	CORE 3922.00m	A100%	SANDSTONE - fine grained, blocky, hard, arg, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-074	CORE 3922.50m	A100%	SANDSTONE - fine grained, blocky, hard, arg, v micaceous, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-075	CORE 3923.25m	A100%	SANDSTONE - fine grained, blocky, hard, arg, no F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-076	CORE 3924.50m	A100%	COAL - blocky, firm, vitreous lustre, pyritic, black.	N1	58.10
5977-077	CORE 3925.25m	A100%	SANDSTONE - fine grained, blocky, hard, arg, v micaceous, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-078	CORE 3925.75m	A100%	SANDSTONE - as 5977-077A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-079	CORE 3926.25m	A100%	SANDSTONE - as 5977-077A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5977				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
5977-080	CORE 3926.75m	A100% SANDSTONE - as 5977-077A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-081	CORE 3928.00m	A100% SANDSTONE - as 5977-077A, gold F, rapid blooming cut, pale yellowish brown.	10YR6/2	
5977-082	CORE 3929.20m	A100% COAL - blocky, firm, vitreous lustre, black.	N1	71.80

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 2a  
STANDARD PYROLYSIS DATA

JOB 5977								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: 6507/2-2

5977-076A	3924.50m	58.10	0.00	21.75	143.10	0.13	246.3	447
5977-082A	3929.20m	71.80	0.12	27.50	160.10	0.15	223.0	453

UNEXTRACTED LITHOLOGIES

TABLE 2b  
STANDARD PYROLYSIS DATA

JOB 5977								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: 6507/2-2

5977-076A	3924.50m	57.40	0.21	3.20	109.90	0.03	191.5	451
5977-082A	3929.20m	70.30	0.35	7.23	150.50	0.05	214.1	451

EXTRACTED LITHOLOGIES

PRODUCTION INDEX =  $S1 / (S0 + S1 + S2)$       HYDROGEN INDEX =  $100 \times S2 / TOC$   
 S0 : 100°C (180secs)      S1 : 300°C (180secs)      S2 : 25°C / 10min + 1 min 550°C

TABLE 3a  
ROCKEVAL PYROLYSIS DATA

JOB 5977									
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOC (%)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	PRODUCTION INDEX	HYDROGEN INDEX	OXYGEN INDEX	TMAX (°C)

WELL: 6507/2-2

5977-076A	3924.50m	58.10	17.19	143.68	10.17	0.11	247.3	17.5	457
5977-082A	3929.20m	71.80	21.21	171.74	14.53	0.11	239.2	20.2	457

UNEXTRACTED LITHOLOGIES

PRODUCTION INDEX =  $S1 / (S1 + S2)$   
 OXYGEN INDEX =  $100 \times S3 / TOC$

HYDROGEN INDEX =  $100 \times S2 / TOC$



TABLE 3b  
ROCKEVAL PYROLYSIS DATA

JOB 5977									
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOC (%)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	PRODUCTION INDEX	HYDROGEN INDEX	OXYGEN INDEX	TMAX (°C)

WELL: 6507/2-2

5977-076A	3924.50m	57.40	4.36	107.60	5.76	0.04	187.5	10.0	459
5977-082A	3929.20m	70.30	7.98	142.57	9.01	0.05	202.8	12.8	462

EXTRACTED LITHOLOGIES

TABLE 4a  
 PYROLYSIS-GC GAS-OIL INDICES

JOB 5977	DEPTH/ IDENTITY	% C1	% C2-C5	% C6-C14	% C15+	% nC17	INDICES		
							<u>TOLUENE</u> nC8	% PHENOL	% C1-C5

WELL: 6507/2-2

5977-076A	CORE 3924.50m	21.74	30.61	33.86	13.78	0.69	2.16	0.04	52.35
5977-082A	CORE 3929.20m	22.95	29.85	33.87	13.33	0.84	3.22	0.03	52.80

TABLE 4b  
PYROLYSIS-GC GAS-OIL INDICES

JOB 5977	DEPTH/ IDENTITY	% C1	% C2-C6	% C7-C14	% C15+	% nC17	INDICES		
GEOCHEM SAMPLE NUMBER							$\frac{\text{TOLUENE}}{\text{nC8}}$	% PHENOL	% C1-C6

WELL: 6507/2-2

5977-076A	CORE 3924.50m	21.74	35.08	29.39	13.78	0.69	2.16	0.04	56.82
5977-082A	CORE 3929.20m	22.95	34.47	29.25	13.33	0.84	3.22	0.03	57.42

TABLE 5  
KEROGEN TYPE AND MATURATION

JOB 5977 GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC MATTER DESCRIPTION				THERMAL MATURATION	
		TYPES >35%;10-35%;<10%	REMARKS	RE- WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX

WELL: 6507/2-2

5977-076A	CORE 3924.50m	W;-;I-H			F-M/C	G	2 to 2+/2+ ?	5.5 ?
5977-082A	CORE 3929.20m	W;I;H			F-M/C	G	2 to 2+/2+ ?	5.5 ?

Algal, Amorphous, Herbaceous, Inertinite, Resin, Wood

TAI SCALE	1	1+ to 2-	2-	2	2 TO 2+	2+ TO 3-	3	3+	4	5
1-10 SCALE	1	2	3	4	5	6	7	8	9	10

**TABLE 6**  
**KEROGEN COMPOSITION**

<b>GEOCHEM SAMPLE NUMBER</b>	<b>DEPTH</b>	<b>VISUAL ESTIMATE (%)</b>				
		<b>Am</b>	<b>Al</b>	<b>H</b>	<b>W</b>	<b>I</b>
5977-076A	3924.50m	-	-	4	87	9
5977-082A	3929.20m	-	-	3	85	12

TABLE 7  
CONCENTRATION (PPM) OF EXTRACTED C<sub>15+</sub> MATERIAL IN ROCK

JOB 5977 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL

WELL: 6507/2-2

5977-001A	CORE	2822.25m	919	583	58	641	146	130	2	278
5977-002A	CORE	2823.00m	1565	989	125	1114	217	232	1	450
5977-003A	CORE	2823.25m	1077	758	69	828	154	99	1	254
5977-004A	CORE	2823.50m	864	568	52	619	129	115	1	244
5977-005A	CORE	2824.50m	691	493	51	544	55	90	1	147
5977-006A	CORE	2825.00m	820	552	56	608	114	97	0	212
5977-007A	CORE	2825.50m	788	585	49	634	68	85	1	153
5977-008A	CORE	2826.00m	686	516	43	559	42	85	1	127
5977-009A	CORE	2827.00m	695	530	42	572	46	75	1	123
5977-010A	CORE	2828.00m	1354	1086	83	1168	41	143	1	186
5977-011A	CORE	2830.00m	720	540	38	579	55	85	1	141
5977-012A	CORE	2831.00m	3722	3098	235	3333	56	330	3	389
5977-013A	CORE	2831.75m	8267	6915	598	7513	74	664	16	754
5977-014A	CORE	2832.00m	5822	4888	393	5281	44	479	18	541
5977-015A	CORE	2832.50m	4207	3472	292	3764	29	405	8	443
5977-016A	CORE	3273.50m	651	444	37	481	38	130	2	170
5977-017A	CORE	3275.25m	1959	1236	204	1440	153	360	7	519
5977-018A	CORE	3276.75m	1478	1048	131	1180	51	242	4	298
5977-019A	CORE	3278.00m	2116	1598	193	1791	78	241	6	325
5977-020A	CORE	3279.75m	363	202	35	237	48	77	0	126
5977-021A	CORE	3280.50m	332	234	19	253	39	40	1	79
5977-022A	CORE	3281.00m	497	357	27	384	61	51	1	113
5977-023A	CORE	3281.50m	584	432	30	462	64	53	6	123
5977-024A	CORE	3282.00m	542	364	29	393	95	53	1	148
5977-025A	CORE	3282.50m	566	408	29	437	92	37	1	129
5977-026A	CORE	3283.00m	452	332	27	358	49	44	1	94
5977-027A	CORE	3283.50m	468	346	26	372	51	44	1	96
5977-028A	CORE	3284.00m	256	178	14	192	31	32	1	64
5977-029A	CORE	3284.50m	543	386	30	416	68	58	1	126
5977-030A	CORE	3285.00m	503	365	32	397	50	56	1	106
5977-031A	CORE	3285.50m	670	490	49	539	54	75	2	131
5977-032A	CORE	3285.75m	456	348	27	375	32	48	0	81

TABLE 7  
CONCENTRATION (PPM) OF EXTRACTED C<sub>15+</sub> MATERIAL IN ROCK

JOB 5977 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL
5977-033A	CORE	3286.25m	599	375	39	414	84	100	1	185
5977-034A	CORE	3286.75m	707	432	64	496	107	102	3	211
5977-035A	CORE	3287.50m	390	285	25	310	28	51	1	80
5977-036A	CORE	3288.00m	363	278	24	302	14	38	9	61
5977-037A	CORE	3288.50m	376	288	24	312	22	42	1	64
5977-038A	CORE	3288.75m	483	368	32	399	30	54	1	84
5977-039A	CORE	3290.00m	377	265	26	291	33	52	1	86
5977-040A	CORE	3291.00m	473	207	83	290	97	86	1	183
5977-041A	CORE	3291.50m	609	426	40	466	72	69	1	143
5977-042A	CORE	3292.00m	1372	739	204	943	200	226	3	429
5977-043A	CORE	3292.50m	1339	855	178	1033	136	166	5	307
5977-044A	CORE	3292.75m	561	357	56	413	87	61	1	148
5977-045A	CORE	3293.00m	584	401	37	437	90	54	3	147
5977-046A	CORE	3293.75m	749	343	125	467	134	146	1	282
5977-047A	CORE	3295.00m	1222	874	83	957	148	115	3	265
5977-048A	CORE	3330.20m	1052	729	86	814	141	95	2	237
5977-049A	CORE	3332.50m	1392	1025	103	1128	140	121	3	264
5977-050A	CORE	3333.40m	1245	924	117	1041	87	114	3	204
5977-051A	CORE	3335.25m	1324	979	104	1083	117	122	2	241
5977-052A	CORE	3335.50m	1685	1216	141	1357	152	175	2	328
5977-053A	CORE	3336.50m	1181	919	79	998	85	96	2	183
5977-054A	CORE	3337.00m	1212	925	71	996	107	104	5	216
5977-055A	CORE	3337.25m	1791	1360	128	1489	122	173	7	302
5977-056A	CORE	3337.50m	1110	841	67	908	98	100	4	202
5977-057A	CORE	3338.00m	1603	1185	111	1295	147	156	4	307
5977-058A	CORE	3338.50m	1591	1140	115	1254	163	170	4	337
5977-059A	CORE	3338.75m	1569	1128	114	1242	159	162	5	327
5977-060A	CORE	3687.00m	775	517	51	568	126	79	2	208
5977-061A	CORE	3688.00m	1065	738	90	828	70	165	2	237
5977-062A	CORE	3690.00m	1074	739	92	832	124	117	2	243
5977-063A	CORE	3692.00m	409	249	24	272	88	48	1	137
5977-064A	CORE	3694.00m	695	453	44	498	120	75	3	197
5977-065A	CORE	3697.00m	602	423	39	462	80	58	2	140
5977-066A	CORE	3700.00m	704	462	48	511	86	106	2	194

TABLE 7  
CONCENTRATION (PPM) OF EXTRACTED C<sub>15+</sub> MATERIAL IN ROCK

JOB 5977 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL
5977-067A		CORE 3770.00m	422	201	31	232	81	107	2	190
5977-068A		CORE 3771.00m	614	323	39	363	80	170	2	252
5977-069A		CORE 3772.50m	444	198	27	225	101	117	1	219
5977-070A		CORE 3775.00m	963	515	90	604	171	186	2	358
5977-071A		CORE 3777.00m	481	243	44	287	87	104	3	194
5977-072A		CORE 3921.00m	562	304	62	365	100	96	1	197
5977-073A		CORE 3922.00m	1495	852	154	1006	327	159	3	490
5977-074A		CORE 3922.50m	2391	1311	323	1634	477	276	4	757
5977-075A		CORE 3923.25m	1114	746	86	832	115	164	3	282
5977-076A		CORE 3924.50m	18376	6067	2814	8880	7345	2118	33	9496
5977-077A		CORE 3925.25m	1264	869	95	963	136	163	2	300
5977-078A		CORE 3925.75m	1725	1413	106	1519	47	154	5	206
5977-079A		CORE 3926.25m	781	600	53	653	40	83	4	128
5977-080A		CORE 3926.75m	893	702	60	762	42	86	2	130
5977-081A		CORE 3928.00m	1143	798	80	878	150	109	5	265
5977-082A		CORE 3929.20m	20514	10245	3414	13659	5199	1591	64	6855



TABLE 8  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> MATERIAL

JOB 5977 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's

WELL: 6507/2-2

5977-001A	CORE	2822.25m	63.39	6.33	15.93	14.18	0.17
5977-002A	CORE	2823.00m	63.21	8.00	13.87	14.83	0.09
5977-003A	CORE	2823.25m	70.37	6.44	14.27	9.22	0.10
5977-004A	CORE	2823.50m	65.73	5.96	14.97	13.27	0.06
5977-005A	CORE	2824.50m	71.40	7.35	7.99	13.05	0.21
5977-006A	CORE	2825.00m	67.32	6.83	13.90	11.89	0.06
5977-007A	CORE	2825.50m	74.29	6.23	8.57	10.78	0.13
5977-008A	CORE	2826.00m	75.18	6.28	6.06	12.34	0.14
5977-009A	CORE	2827.00m	76.29	6.06	6.67	10.83	0.15
5977-010A	CORE	2828.00m	80.19	6.11	3.04	10.56	0.11
5977-011A	CORE	2830.00m	75.03	5.35	7.58	11.84	0.20
5977-012A	CORE	2831.00m	83.23	6.31	1.50	8.87	0.09
5977-013A	CORE	2831.75m	83.65	7.24	0.89	8.03	0.20
5977-014A	CORE	2832.00m	83.96	6.75	0.75	8.23	0.31
5977-015A	CORE	2832.50m	82.53	6.95	0.69	9.63	0.20
5977-016A	CORE	3273.50m	68.11	5.76	5.91	19.92	0.30
5977-017A	CORE	3275.25m	63.07	10.42	7.80	18.36	0.35
5977-018A	CORE	3276.75m	70.95	8.90	3.47	16.40	0.28
5977-019A	CORE	3278.00m	75.51	9.14	3.68	11.37	0.30
5977-020A	CORE	3279.75m	55.69	9.66	13.23	21.30	0.13
5977-021A	CORE	3280.50m	70.50	5.68	11.67	11.99	0.16
5977-022A	CORE	3281.00m	71.81	5.43	12.34	10.21	0.21
5977-023A	CORE	3281.50m	73.96	5.07	10.93	9.07	0.98
5977-024A	CORE	3282.00m	67.24	5.35	17.48	9.74	0.19
5977-025A	CORE	3282.50m	72.10	5.05	16.21	6.55	0.09
5977-026A	CORE	3283.00m	73.35	5.86	10.87	9.70	0.21
5977-027A	CORE	3283.50m	73.96	5.54	10.89	9.41	0.20
5977-028A	CORE	3284.00m	69.62	5.43	12.27	12.47	0.20
5977-029A	CORE	3284.50m	71.22	5.51	12.45	10.71	0.10
5977-030A	CORE	3285.00m	72.58	6.35	9.88	11.09	0.10
5977-031A	CORE	3285.50m	73.13	7.33	8.09	11.22	0.23
5977-032A	CORE	3285.75m	76.37	5.95	6.99	10.59	0.09
5977-033A	CORE	3286.25m	62.61	6.53	13.95	16.73	0.18
5977-034A	CORE	3286.75m	61.12	9.03	15.14	14.36	0.36
5977-035A	CORE	3287.50m	73.11	6.31	7.27	13.03	0.27
5977-036A	CORE	3288.00m	76.50	6.68	3.87	10.41	2.54
5977-037A	CORE	3288.50m	76.44	6.46	5.74	11.12	0.24
5977-038A	CORE	3288.75m	76.03	6.55	6.14	11.08	0.20
5977-039A	CORE	3290.00m	70.34	6.88	8.64	13.89	0.25
5977-040A	CORE	3291.00m	43.79	17.47	20.46	18.16	0.11
5977-041A	CORE	3291.50m	69.90	6.58	11.88	11.40	0.24
5977-042A	CORE	3292.00m	53.84	14.86	14.56	16.48	0.25
5977-043A	CORE	3292.50m	63.81	13.30	10.15	12.39	0.35
5977-044A	CORE	3292.75m	63.60	9.98	15.43	10.84	0.14
5977-045A	CORE	3293.00m	68.58	6.28	15.40	9.29	0.44
5977-046A	CORE	3293.75m	45.73	16.63	17.94	19.55	0.15
5977-047A	CORE	3295.00m	71.55	6.76	12.10	9.38	0.22
5977-048A	CORE	3330.20m	69.29	8.14	13.38	9.01	0.18
5977-049A	CORE	3332.50m	73.67	7.39	10.05	8.72	0.18
5977-050A	CORE	3333.40m	74.20	9.40	7.00	9.19	0.21
5977-051A	CORE	3335.25m	73.96	7.83	8.83	9.20	0.18
5977-052A	CORE	3335.50m	72.16	8.36	9.00	10.38	0.10
5977-053A	CORE	3336.50m	77.82	6.67	7.16	8.17	0.19

TABLE 8  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> MATERIAL

JOB 5977 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's
5977-054A	CORE	3337.00m	76.34	5.85	8.81	8.57	0.43
5977-055A	CORE	3337.25m	75.96	7.16	6.79	9.69	0.40
5977-056A	CORE	3337.50m	75.76	6.02	8.82	9.05	0.36
5977-057A	CORE	3338.00m	73.92	6.90	9.18	9.73	0.27
5977-058A	CORE	3338.50m	71.62	7.20	10.24	10.67	0.28
5977-059A	CORE	3338.75m	71.88	7.27	10.16	10.34	0.34
5977-060A	CORE	3687.00m	66.69	6.52	16.31	10.23	0.25
5977-061A	CORE	3688.00m	69.32	8.42	6.55	15.51	0.20
5977-062A	CORE	3690.00m	68.83	8.59	11.52	10.88	0.18
5977-063A	CORE	3692.00m	60.83	5.76	21.45	11.63	0.32
5977-064A	CORE	3694.00m	65.24	6.40	17.24	10.76	0.36
5977-065A	CORE	3697.00m	70.25	6.52	13.29	9.63	0.32
5977-066A	CORE	3700.00m	65.63	6.85	12.23	15.03	0.27
5977-067A	CORE	3770.00m	47.76	7.25	19.22	25.32	0.46
5977-068A	CORE	3771.00m	52.62	6.41	13.07	27.64	0.25
5977-069A	CORE	3772.50m	44.63	6.10	22.71	26.33	0.23
5977-070A	CORE	3775.00m	53.48	9.30	17.72	19.34	0.16
5977-071A	CORE	3777.00m	50.54	9.06	18.13	21.67	0.59
5977-072A	CORE	3921.00m	54.03	10.98	17.71	17.01	0.27
5977-073A	CORE	3922.00m	56.95	10.32	21.87	10.64	0.23
5977-074A	CORE	3922.50m	54.83	13.52	19.95	11.54	0.16
5977-075A	CORE	3923.25m	66.96	7.70	10.34	14.69	0.31
5977-076A	CORE	3924.50m	33.01	15.31	39.97	11.52	0.18
5977-077A	CORE	3925.25m	68.75	7.49	10.73	12.87	0.16
5977-078A	CORE	3925.75m	81.89	6.14	2.72	8.95	0.29
5977-079A	CORE	3926.25m	76.82	6.82	5.16	10.67	0.53
5977-080A	CORE	3926.75m	78.66	6.76	4.66	9.65	0.28
5977-081A	CORE	3928.00m	69.82	7.02	13.13	9.55	0.48
5977-082A	CORE	3929.20m	49.94	16.64	25.34	7.76	0.31
5977-083	DST	1	88.53	6.63	0.97	3.66	0.21
5977-084	DST	2	90.10	6.28	0.22	3.09	0.31

TABLE 9  
SIGNIFICANT C<sub>15+</sub> RATIOS

JOB 5977	LITHO	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS & TOTAL EXTRACT	SATURATES AROMATICS
				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		
5977-001A	CORE	2822.25m	0.25	367.79	233.14	23.27	256.42	52.16	58.60	69.72	10.02
5977-002A	CORE	2823.00m	1.78	87.89	55.56	7.03	62.59	13.03	12.19	71.21	7.90
5977-003A	CORE	2823.25m	0.53	203.29	143.05	13.10	156.14	18.74	29.01	76.81	10.92
5977-004A	CORE	2823.50m	0.21	411.26	270.32	24.53	294.85	54.59	61.57	71.70	11.02
5977-005A	CORE	2824.50m	0.17	406.46	290.20	29.86	320.06	53.05	32.47	78.74	9.72
5977-006A	CORE	2825.00m	0.20	409.80	275.86	27.99	303.85	48.73	56.97	74.15	9.86
5977-007A	CORE	2825.50m	0.15	525.15	390.11	32.74	422.85	56.61	45.01	80.52	11.92
5977-008A	CORE	2826.00m	0.13	527.80	396.80	33.13	429.93	65.12	31.99	81.46	11.98
5977-009A	CORE	2827.00m	0.11	631.91	482.07	38.30	520.37	68.46	42.13	82.35	12.59
5977-010A	CORE	2828.00m	0.11	1230.81	986.96	75.20	1062.16	129.93	37.38	86.30	13.12
5977-011A	CORE	2830.00m	0.13	554.06	415.73	29.61	445.34	65.60	41.99	80.38	14.04
5977-012A	CORE	2831.00m	0.16	2326.16	1936.13	146.71	2082.84	206.35	34.89	89.54	13.20
5977-013A	CORE	2831.75m	0.27	3061.78	2561.06	221.54	2782.60	245.84	27.32	90.88	11.56
5977-014A	CORE	2832.00m	0.11	5292.62	4443.59	357.01	4800.60	435.81	39.88	90.70	12.45
5977-015A	CORE	2832.50m	0.19	2214.16	1827.24	153.87	1981.11	213.31	15.26	89.47	11.88
5977-016A	CORE	3273.50m	0.13	500.93	341.16	28.84	370.00	99.81	29.60	73.86	11.83
5977-017A	CORE	3275.25m	2.42	80.96	51.06	8.44	59.50	14.86	6.32	73.49	6.05
5977-018A	CORE	3276.75m	2.01	73.53	52.16	6.54	58.70	12.06	2.55	79.84	7.98
5977-019A	CORE	3278.00m	1.64	129.02	97.42	11.79	109.21	14.67	4.75	84.65	8.26
5977-020A	CORE	3279.75m	0.90	40.29	22.44	3.89	26.33	8.58	5.33	65.34	5.77
5977-021A	CORE	3280.50m	0.18	184.70	130.22	10.49	140.71	22.14	21.56	76.18	12.42
5977-022A	CORE	3281.00m	0.15	331.04	237.72	17.96	255.68	33.81	40.85	77.23	13.24
5977-023A	CORE	3281.50m	0.13	449.32	332.29	22.77	355.06	40.74	49.13	79.02	14.60
5977-024A	CORE	3282.00m	0.14	386.89	260.14	20.69	280.84	37.69	67.62	72.59	12.57
5977-025A	CORE	3282.50m	0.19	297.85	214.75	15.04	229.78	19.52	48.28	77.15	14.28
5977-026A	CORE	3283.00m	0.12	376.89	276.44	22.10	298.54	36.56	40.98	79.21	12.51
5977-027A	CORE	3283.50m	0.12	389.66	288.19	21.61	309.80	36.65	42.44	79.51	13.34
5977-028A	CORE	3284.00m	0.13	196.66	136.91	10.68	147.59	24.53	24.14	75.05	12.81
5977-029A	CORE	3284.50m	0.16	339.15	241.56	18.69	260.24	36.34	42.22	76.73	12.93
5977-030A	CORE	3285.00m	0.14	358.95	260.53	22.80	283.33	39.80	35.46	78.93	11.43
5977-031A	CORE	3285.50m	0.14	478.63	350.02	35.08	385.09	53.71	38.73	80.46	9.98
5977-032A	CORE	3285.75m	0.14	325.60	248.66	19.39	268.05	34.47	22.77	82.33	12.83

TABLE 9  
SIGNIFICANT C<sub>15+</sub> RATIOS

JOB 5977	LITHO	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS % TOTAL EXTRACT	SATURATES AROMATICS
				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		
5977-033A	CORE	3286.25m	0.54	111.01	69.51	7.25	76.76	18.57	15.49	69.14	9.59
5977-034A	CORE	3286.75m	1.18	59.92	36.62	5.41	42.03	8.60	9.07	70.15	6.77
5977-035A	CORE	3287.50m	0.19	205.29	150.09	12.95	163.05	26.75	14.92	79.42	11.59
5977-036A	CORE	3288.00m	0.11	330.22	252.62	22.04	274.67	34.39	12.79	83.18	11.46
5977-037A	CORE	3288.50m	0.13	289.41	221.21	18.69	239.91	32.20	16.62	82.89	11.83
5977-038A	CORE	3288.75m	0.12	402.87	306.31	26.37	332.68	44.63	24.75	82.58	11.62
5977-039A	CORE	3290.00m	0.14	269.08	189.26	18.52	207.79	37.38	23.24	77.22	10.22
5977-040A	CORE	3291.00m	1.26	37.53	16.43	6.56	22.99	6.82	7.68	61.26	2.51
5977-041A	CORE	3291.50m	0.48	126.81	88.65	8.35	96.99	14.45	15.06	76.48	10.62
5977-042A	CORE	3292.00m	1.47	93.36	50.27	13.88	64.14	15.38	13.60	68.70	3.62
5977-043A	CORE	3292.50m	0.98	136.66	87.20	18.17	105.37	16.94	13.87	77.10	4.80
5977-044A	CORE	3292.75m	0.56	100.14	63.69	9.99	73.69	10.86	15.46	73.58	6.37
5977-045A	CORE	3293.00m	0.27	216.40	148.42	13.60	162.01	20.11	33.32	74.87	10.92
5977-046A	CORE	3293.75m	0.95	78.86	36.06	13.11	49.17	15.42	14.14	62.36	2.75
5977-047A	CORE	3295.00m	0.10	1221.99	874.28	82.59	956.87	114.68	147.82	78.30	10.59
5977-048A	CORE	3330.20m	0.18	584.30	404.85	47.55	452.40	52.65	78.18	77.43	8.51
5977-049A	CORE	3332.50m	0.15	927.83	683.52	68.52	752.04	80.88	93.23	81.05	9.98
5977-050A	CORE	3333.40m	0.23	541.52	401.82	50.90	452.72	49.78	37.89	83.60	7.89
5977-051A	CORE	3335.25m	0.26	509.37	376.71	39.89	416.60	46.85	44.97	81.79	9.44
5977-052A	CORE	3335.50m	0.31	543.61	392.25	45.46	437.71	56.43	48.94	80.52	8.63
5977-053A	CORE	3336.50m	0.10	1181.50	919.38	78.86	998.24	96.48	84.58	84.49	11.66
5977-054A	CORE	3337.00m	0.15	807.68	616.62	47.21	663.83	69.25	71.14	82.19	13.06
5977-055A	CORE	3337.25m	0.24	746.24	566.84	53.46	620.29	72.28	50.66	83.12	10.60
5977-056A	CORE	3337.50m	0.12	924.83	700.63	55.64	756.26	83.66	81.60	81.77	12.59
5977-057A	CORE	3338.00m	0.20	801.40	592.42	55.26	647.68	77.94	73.60	80.82	10.72
5977-058A	CORE	3338.50m	0.19	837.53	599.83	60.27	660.10	89.36	85.73	78.82	9.95
5977-059A	CORE	3338.75m	0.20	784.56	563.95	57.06	621.00	81.16	79.69	79.15	9.88
5977-060A	CORE	3687.00m	0.12	646.08	430.85	42.15	473.01	66.07	105.38	73.21	10.22
5977-061A	CORE	3688.00m	0.10	1064.77	738.08	89.68	827.76	165.13	69.75	77.74	8.23
5977-062A	CORE	3690.00m	0.22	488.24	336.06	41.95	378.01	53.11	56.23	77.42	8.01
5977-063A	CORE	3692.00m	0.09	454.24	276.32	26.18	302.50	52.84	97.44	66.60	10.56
5977-064A	CORE	3694.00m	0.15	463.20	302.17	29.64	331.82	49.86	79.84	71.64	10.19
5977-065A	CORE	3697.00m	0.18	334.45	234.94	21.82	256.76	32.19	44.43	76.77	10.77
5977-066A	CORE	3700.00m	0.13	541.88	355.61	37.11	392.72	81.43	66.29	72.47	9.58

TABLE 9  
SIGNIFICANT C<sub>15+</sub> RATIOS

JOB 5977	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS & TOTAL EXTRACT	SATURATES AROMATIC
				TOTAL EXTRACT	SATURATES	AROMATIC	TOTAL HYDROCARBONS	ELUTED NSO'S	ASPHALTENES		
5977-067A	CORE	3770.00m	0.11	383.31	183.05	27.79	210.84	97.04	73.66	55.01	6.59
5977-068A	CORE	3771.00m	0.11	558.47	293.89	35.81	329.69	154.38	73.01	59.03	8.21
5977-069A	CORE	3772.50m	0.15	295.74	132.00	18.05	150.04	77.86	67.17	50.73	7.31
5977-070A	CORE	3775.00m	0.34	283.16	151.43	26.35	177.77	54.77	50.18	62.78	5.75
5977-071A	CORE	3777.00m	0.31	155.18	78.43	14.07	92.49	33.63	28.13	59.61	5.58
5977-072A	CORE	3921.00m	0.23	244.34	132.01	26.84	158.85	41.55	43.28	65.01	4.92
5977-073A	CORE	3922.00m	1.01	148.06	84.32	15.27	99.59	15.75	32.38	67.26	5.52
5977-074A	CORE	3922.50m	1.61	148.52	81.44	20.08	101.52	17.14	29.62	68.35	4.06
5977-075A	CORE	3923.25m	0.26	428.54	286.95	32.99	319.95	62.97	44.31	74.66	8.70
5977-076A	CORE	3924.50m	57.40	32.01	10.57	4.90	15.47	3.69	12.80	48.32	2.16
5977-077A	CORE	3925.25m	0.23	549.46	377.77	41.13	418.90	70.72	58.97	76.24	9.19
5977-078A	CORE	3925.75m	0.10	1725.14	1412.79	105.95	1518.74	154.42	46.98	88.04	13.33
5977-079A	CORE	3926.25m	0.12	650.85	500.00	44.37	544.37	69.44	33.57	83.64	11.27
5977-080A	CORE	3926.75m	0.12	743.86	585.11	50.31	635.41	71.75	34.64	85.42	11.63
5977-081A	CORE	3928.00m	0.66	173.19	120.93	12.16	133.09	16.54	22.73	76.84	9.94
5977-082A	CORE	3929.20m	70.30	29.18	14.57	4.86	19.43	2.26	7.40	66.59	3.00
5977-083	DST	1								95.16	13.34
5977-084	DST	2								96.38	14.34

TABLE 10  
C<sub>15+</sub> CHROMATOGRAPHY WEIGHTS (grams)

JOB 5977	LITHO	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
5977-001A	CORE	2822.25m	19.2500	0.01770	0.00282	0.01488	0.01122	0.00112	0.00251	0.00003
5977-002A	CORE	2823.00m	20.6900	0.03237	0.00449	0.02788	0.02046	0.00259	0.00480	0.00003
5977-003A	CORE	2823.25m	18.7300	0.02018	0.00288	0.01738	0.01420	0.00130	0.00186	0.00002
5977-004A	CORE	2823.50m	19.8000	0.01710	0.00256	0.01454	0.01124	0.00102	0.00227	0.00001
5977-005A	CORE	2824.50m	20.2900	0.01402	0.00112	0.01290	0.01001	0.00103	0.00183	0.00003
5977-006A	CORE	2825.00m	20.0100	0.01640	0.00228	0.01412	0.01104	0.00112	0.00195	0.00001
5977-007A	CORE	2825.50m	19.5500	0.01540	0.00132	0.01408	0.01144	0.00096	0.00166	0.00002
5977-008A	CORE	2826.00m	20.2000	0.01386	0.00084	0.01302	0.01042	0.00087	0.00171	0.00002
5977-009A	CORE	2827.00m	18.9900	0.01320	0.00088	0.01232	0.01007	0.00080	0.00143	0.00002
5977-010A	CORE	2828.00m	20.4300	0.02766	0.00084	0.02682	0.02218	0.00169	0.00292	0.00003
5977-011A	CORE	2830.00m	20.5200	0.01478	0.00112	0.01366	0.01109	0.00079	0.00175	0.00003
5977-012A	CORE	2831.00m	20.9600	0.07801	0.00117	0.07684	0.06493	0.00492	0.00692	0.00007
5977-013A	CORE	2831.75m	18.4400	0.15244	0.00136	0.15108	0.12751	0.01103	0.01224	0.00030
5977-014A	CORE	2832.00m	18.9200	0.11015	0.00083	0.10932	0.09248	0.00743	0.00907	0.00034
5977-015A	CORE	2832.50m	20.0100	0.08418	0.00058	0.08360	0.06947	0.00585	0.00811	0.00017
5977-016A	CORE	3273.50m	20.2700	0.01320	0.00078	0.01242	0.00899	0.00076	0.00263	0.00004
5977-017A	CORE	3275.25m	19.1000	0.03742	0.00292	0.03450	0.02360	0.00390	0.00687	0.00013
5977-018A	CORE	3276.75m	21.4500	0.03170	0.00110	0.03060	0.02249	0.00282	0.00520	0.00009
5977-019A	CORE	3278.00m	20.5300	0.04344	0.00160	0.04184	0.03280	0.00397	0.00494	0.00013
5977-020A	CORE	3279.75m	20.8500	0.00756	0.00100	0.00656	0.00421	0.00073	0.00161	0.00001
5977-021A	CORE	3280.50m	19.0700	0.00634	0.00074	0.00560	0.00447	0.00036	0.00076	0.00001
5977-022A	CORE	3281.00m	18.9300	0.00940	0.00116	0.00824	0.00675	0.00051	0.00096	0.00002
5977-023A	CORE	3281.50m	19.2600	0.01125	0.00123	0.01002	0.00832	0.00057	0.00102	0.00011
5977-024A	CORE	3282.00m	19.3300	0.01047	0.00183	0.00864	0.00704	0.00056	0.00102	0.00002
5977-025A	CORE	3282.50m	19.9500	0.01129	0.00183	0.00946	0.00814	0.00057	0.00074	0.00001
5977-026A	CORE	3283.00m	20.7400	0.00938	0.00102	0.00836	0.00688	0.00055	0.00091	0.00002
5977-027A	CORE	3283.50m	21.6000	0.01010	0.00110	0.00900	0.00747	0.00056	0.00095	0.00002
5977-028A	CORE	3284.00m	19.4400	0.00497	0.00061	0.00436	0.00346	0.00027	0.00062	0.00001
5977-029A	CORE	3284.50m	18.0600	0.00980	0.00122	0.00858	0.00698	0.00054	0.00105	0.00001
5977-030A	CORE	3285.00m	19.7400	0.00992	0.00098	0.00894	0.00720	0.00063	0.00110	0.00001
5977-031A	CORE	3285.50m	19.5500	0.01310	0.00106	0.01204	0.00958	0.00096	0.00147	0.00003
5977-032A	CORE	3285.75m	23.2100	0.01058	0.00074	0.00984	0.00808	0.00063	0.00112	0.00001

TABLE 10  
C<sub>15+</sub> CHROMATOGRAPHY WEIGHTS (gms)

JOB 5977	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPID. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
5977-033A	CORE	3286.25m	18.6500	0.01118	0.00156	0.00962	0.00700	0.00073	0.00187	0.00002
5977-034A	CORE	3286.75m	19.9000	0.01407	0.00213	0.01194	0.00860	0.00127	0.00202	0.00005
5977-035A	CORE	3287.50m	18.6900	0.00729	0.00053	0.00676	0.00533	0.00046	0.00095	0.00002
5977-036A	CORE	3288.00m	20.6200	0.00749	0.00029	0.00720	0.00573	0.00050	0.00078	0.00019
5977-037A	CORE	3288.50m	22.2200	0.00836	0.00048	0.00788	0.00639	0.00054	0.00093	0.00002
5977-038A	CORE	3288.75m	20.5400	0.00993	0.00061	0.00932	0.00755	0.00065	0.00110	0.00002
5977-039A	CORE	3290.00m	21.2100	0.00799	0.00069	0.00730	0.00562	0.00055	0.00111	0.00002
5977-040A	CORE	3291.00m	18.4000	0.00870	0.00178	0.00692	0.00381	0.00152	0.00158	0.00001
5977-041A	CORE	3291.50m	20.4700	0.01246	0.00148	0.01098	0.00871	0.00082	0.00142	0.00003
5977-042A	CORE	3292.00m	17.1600	0.02355	0.00343	0.02012	0.01268	0.00350	0.00388	0.00006
5977-043A	CORE	3292.50m	18.9800	0.02542	0.00258	0.02284	0.01622	0.00338	0.00315	0.00009
5977-044A	CORE	3292.75m	24.8400	0.01393	0.00215	0.01178	0.00886	0.00139	0.00151	0.00002
5977-045A	CORE	3293.00m	19.3400	0.01130	0.00174	0.00956	0.00775	0.00071	0.00105	0.00005
5977-046A	CORE	3293.75m	17.3400	0.01299	0.00233	0.01066	0.00594	0.00216	0.00254	0.00002
5977-047A	CORE	3295.00m	19.0100	0.02323	0.00281	0.02042	0.01662	0.00157	0.00218	0.00005
5977-048A	CORE	3330.20m	20.6800	0.02175	0.00291	0.01884	0.01507	0.00177	0.00196	0.00004
5977-049A	CORE	3332.50m	23.7400	0.03304	0.00332	0.02972	0.02434	0.00244	0.00288	0.00006
5977-050A	CORE	3333.40m	19.3900	0.02415	0.00169	0.02246	0.01792	0.00227	0.00222	0.00005
5977-051A	CORE	3335.25m	20.4400	0.02707	0.00239	0.02468	0.02002	0.00212	0.00249	0.00005
5977-052A	CORE	3335.50m	18.5200	0.03121	0.00281	0.02840	0.02252	0.00261	0.00324	0.00003
5977-053A	CORE	3336.50m	22.7000	0.02682	0.00192	0.02490	0.02087	0.00179	0.00219	0.00005
5977-054A	CORE	3337.00m	21.1800	0.02566	0.00226	0.02340	0.01959	0.00150	0.00220	0.00011
5977-055A	CORE	3337.25m	20.8100	0.03727	0.00253	0.03474	0.02831	0.00267	0.00361	0.00015
5977-056A	CORE	3337.50m	20.2200	0.02244	0.00198	0.02046	0.01700	0.00135	0.00203	0.00008
5977-057A	CORE	3338.00m	20.7200	0.03321	0.00305	0.03016	0.02455	0.00229	0.00323	0.00009
5977-058A	CORE	3338.50m	20.2600	0.03224	0.00330	0.02894	0.02309	0.00232	0.00344	0.00009
5977-059A	CORE	3338.75m	20.3300	0.03190	0.00324	0.02866	0.02293	0.00232	0.00330	0.00011
5977-060A	CORE	3687.00m	20.5600	0.01594	0.00260	0.01334	0.01063	0.00104	0.00163	0.00004
5977-061A	CORE	3688.00m	14.0500	0.01496	0.00098	0.01398	0.01037	0.00126	0.00232	0.00003
5977-062A	CORE	3690.00m	20.3700	0.02188	0.00252	0.01936	0.01506	0.00188	0.00238	0.00004
5977-063A	CORE	3692.00m	22.9200	0.00937	0.00201	0.00736	0.00570	0.00054	0.00109	0.00003
5977-064A	CORE	3694.00m	19.7900	0.01375	0.00237	0.01138	0.00897	0.00088	0.00148	0.00005
5977-065A	CORE	3697.00m	20.8800	0.01257	0.00167	0.01090	0.00883	0.00082	0.00121	0.00004
5977-066A	CORE	3700.00m	21.3500	0.01504	0.00184	0.01320	0.00987	0.00103	0.00226	0.00004

TABLE 10  
C<sub>15+</sub> CHROMATOGRAPHY WEIGHTS (gms)

JOB 5977	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
5977-067A		CORE 3770.00m	20.6100	0.00869	0.00167	0.00702	0.00415	0.00063	0.00220	0.00004
5977-068A		CORE 3771.00m	19.5500	0.01201	0.00157	0.01044	0.00632	0.00077	0.00332	0.00003
5977-069A		CORE 3772.50m	19.9500	0.00885	0.00201	0.00684	0.00395	0.00054	0.00233	0.00002
5977-070A		CORE 3775.00m	19.8700	0.01913	0.00339	0.01574	0.01023	0.00178	0.00370	0.00003
5977-071A		CORE 3777.00m	21.1000	0.01015	0.00184	0.00831	0.00513	0.00092	0.00220	0.00006
5977-072A		CORE 3921.00m	20.0900	0.01129	0.00200	0.00929	0.00610	0.00124	0.00192	0.00003
5977-073A		CORE 3922.00m	20.5500	0.03073	0.00672	0.02401	0.01750	0.00317	0.00327	0.00007
5977-074A		CORE 3922.50m	15.6200	0.03735	0.00745	0.02990	0.02048	0.00505	0.00431	0.00006
5977-075A		CORE 3923.25m	20.4000	0.02273	0.00235	0.02038	0.01522	0.00175	0.00334	0.00007
5977-076A		CORE 3924.50m	5.1000	0.09372	0.03746	0.05626	0.03094	0.01435	0.01080	0.00017
5977-077A		CORE 3925.25m	19.9800	0.02525	0.00271	0.02254	0.01736	0.00189	0.00325	0.00004
5977-078A		CORE 3925.75m	20.0100	0.03452	0.00094	0.03358	0.02827	0.00212	0.00309	0.00010
5977-079A		CORE 3926.25m	21.6000	0.01687	0.00087	0.01600	0.01296	0.00115	0.00180	0.00009
5977-080A		CORE 3926.75m	20.2100	0.01804	0.00084	0.01720	0.01419	0.00122	0.00174	0.00005
5977-081A		CORE 3928.00m	20.0600	0.02293	0.00301	0.01992	0.01601	0.00161	0.00219	0.00011
5977-082A		CORE 3929.20m	5.4300	0.11139	0.02823	0.08316	0.05563	0.01854	0.00864	0.00035
5977-083		DST 1		0.14786	0.00143	0.14643	0.13090	0.00981	0.00541	0.00031
5977-084		DST 2		0.16777	0.00037	0.16740	0.15116	0.01054	0.00518	0.00052



TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	001A	002A	003A	004A	005A	006A
DEPTH	2822.25m	2823m	2823.25m	2823.5m	2824.5m	2825m
SAMPLE TYPE						
nC15	12.95	25.48	15.04	12.33	8.07	9.42
nC16	11.57	23.56	13.85	10.11	9.02	9.76
nC17	9.60	16.11	13.10	9.35	9.43	9.60
nC18	9.49	13.25	11.27	9.18	10.60	10.65
nC19	10.02	10.31	9.24	9.68	11.44	9.92
nC20	10.07	6.33	7.81	9.08	10.27	9.62
nC21	8.61	2.89	7.09	8.84	10.76	9.58
nC22	7.07	0.81	4.62	7.48	7.36	7.77
nC23	5.82	0.38	4.37	5.86	6.52	5.81
nC24	5.40	0.24	3.60	4.45	5.20	4.71
nC25	3.46	0.16	3.15	3.59	3.73	4.08
nC26	2.20	0.14	2.06	2.96	2.83	3.24
nC27	1.47	0.12	1.53	2.44	2.02	2.46
nC28	0.96	0.05	1.13	1.65	1.25	1.45
nC29	0.64	0.08	0.91	1.39	0.78	0.95
nC30	0.34	0.05	0.49	0.76	0.35	0.48
nC31	0.17	0.02	0.33	0.43	0.19	0.29
nC32	0.04	0.02	0.18	0.14	0.07	0.06
nC33	0.04	0.00	0.13	0.17	0.06	0.06
nC34	0.04	0.00	0.10	0.07	0.04	0.05
nC35	0.02	0.00	0.02	0.04	0.01	0.02
Paraffin	30.95	27.58	35.29	25.66	31.57	31.02
Isoprenoid	4.57	5.87	5.83	3.98	4.84	4.65
Naphthene	64.48	66.55	58.88	70.36	63.59	64.33
CPI 1 Index	1.01	1.67	1.15	1.06	1.14	1.07
CPI 2 Index	1.13	1.13	1.17	1.11	1.10	1.14
CPI 3 Index	0.93	1.26	0.96	1.06	0.99	1.05
Prist/Phytane	2.71	2.56	2.85	2.49	2.01	2.35
Prist/nC17	0.55	0.54	0.45	0.62	0.57	0.63
Phytane/nC18	0.20	0.25	0.18	0.26	0.25	0.24

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{28} + C_{28}}$$

CT - ditch cuttings CO - core SNC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	007A	008A	009A	010A	011A	012A
DEPTH	2825.5m	2826m	2827m	2828m	2830m	2831m
SAMPLE TYPE						
nC15	9.11	9.10	9.30	3.30	7.27	2.48
nC16	10.71	9.88	10.78	4.98	8.30	4.59
nC17	10.30	9.80	10.32	6.84	9.45	6.66
nC18	10.74	10.21	10.55	10.14	10.30	8.38
nC19	10.50	10.56	9.89	11.02	11.37	9.34
nC20	10.37	9.85	9.24	11.60	10.47	9.71
nC21	9.75	8.67	8.19	11.16	10.18	9.24
nC22	6.99	6.53	7.31	9.91	8.69	8.77
nC23	6.39	5.98	6.04	8.81	6.70	7.49
nC24	4.70	4.63	5.09	6.93	5.56	7.31
nC25	3.84	4.40	4.13	4.90	4.15	6.35
nC26	2.44	3.41	3.08	3.87	3.14	5.08
nC27	1.71	2.79	2.45	2.66	2.08	4.25
nC28	0.91	1.88	1.54	1.65	1.10	3.03
nC29	0.72	1.12	1.06	1.14	0.63	2.56
nC30	0.38	0.57	0.48	0.47	0.30	1.76
nC31	0.22	0.32	0.28	0.29	0.14	1.23
nC32	0.10	0.13	0.12	0.13	0.06	0.64
nC33	0.06	0.11	0.10	0.12	0.04	0.61
nC34	0.03	0.04	0.03	0.06	0.03	0.36
nC35	0.02	0.02	0.02	0.02	0.02	0.15
Paraffin	32.69	34.68	36.17	31.12	30.87	22.61
Isoprenoid	5.45	5.13	5.29	3.59	4.78	2.14
Naphthene	61.86	60.19	58.54	65.29	64.35	75.25
CPI 1 Index	1.16	1.11	1.03	1.04	1.04	1.01
CPI 2 Index	1.23	1.13	1.15	1.08	1.11	1.10
CPI 3 Index	1.02	1.05	1.06	0.96	0.98	1.05
Prist/Phytane	2.73	2.42	2.54	1.82	2.39	1.74
Prist/nC17	0.65	0.61	0.63	0.71	0.63	0.79
Phytane/nC18	0.23	0.24	0.24	0.26	0.24	0.36

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	013A	014A	015A	016A	017A	018A
DEPTH	2831.75m	2832m	2832.5m	3273.5m	3275.25m	3276.75m
SAMPLE TYPE						
nC15	3.66	3.07	4.87	12.20	12.76	8.64
nC16	5.50	5.05	6.27	12.79	10.43	8.54
nC17	6.69	5.85	7.55	9.64	8.40	7.40
nC18	8.67	8.40	8.69	8.07	7.71	7.16
nC19	9.80	10.17	9.03	8.27	7.75	7.56
nC20	9.29	9.41	10.60	8.66	6.76	8.14
nC21	9.44	9.61	10.17	7.77	6.62	7.96
nC22	8.60	9.33	8.31	7.68	6.92	8.39
nC23	7.75	7.19	7.80	6.00	6.03	7.63
nC24	6.96	6.70	6.02	5.31	6.00	7.12
nC25	5.85	6.10	5.34	4.33	5.11	6.41
nC26	4.43	5.05	4.58	3.15	4.40	5.48
nC27	4.09	4.36	3.65	2.36	4.04	4.24
nC28	2.94	3.15	2.71	1.67	2.88	2.91
nC29	2.28	2.50	2.03	1.18	2.35	1.83
nC30	1.50	1.53	1.10	0.59	1.24	0.52
nC31	1.06	1.17	0.68	0.25	0.38	0.08
nC32	0.52	0.57	0.25	0.07	0.06	0.00
nC33	0.53	0.48	0.21	0.00	0.09	0.00
nC34	0.30	0.24	0.08	0.00	0.06	0.00
nC35	0.13	0.08	0.04	0.00	0.02	0.00
Paraffin	23.39	30.13	26.91	26.75	34.46	34.00
Isoprenoid	2.32	2.81	2.89	4.09	3.67	2.70
Naphthene	74.29	67.06	70.20	69.16	61.87	63.30
CPI 1 Index	1.05	1.01	1.08	0.99	0.99	1.00
CPI 2 Index	1.13	1.12	1.08	1.12	1.10	1.10
CPI 3 Index	1.11	1.06	1.00	0.98	1.11	1.01
Prist/Phytane	1.90	1.72	1.76	2.24	2.03	1.50
Prist/nC17	0.71	0.69	0.67	0.48	0.41	0.35
Phytane/nC18	0.29	0.28	0.33	0.26	0.22	0.24

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	019A	020A	021A	022A	023A	024A
DEPTH	3278m	3279.75m	3280.5m	3281m	3281.5m	3282m
SAMPLE TYPE						
nC15	10.06	18.11	7.96	10.49	12.83	12.54
nC16	10.71	14.54	12.14	11.50	12.55	10.90
nC17	8.07	11.32	10.56	11.36	9.91	9.65
nC18	6.99	9.01	8.50	10.49	9.47	8.97
nC19	6.35	8.86	8.11	9.92	8.96	8.59
nC20	7.19	7.33	7.78	8.77	8.65	8.01
nC21	7.12	7.54	7.43	8.05	6.71	6.95
nC22	6.55	5.31	6.92	7.33	6.67	7.14
nC23	6.33	4.67	5.94	6.18	5.72	5.60
nC24	7.07	4.42	5.99	5.03	5.41	5.40
nC25	6.47	3.46	4.98	3.88	4.15	4.73
nC26	5.07	2.34	4.09	2.59	3.36	3.86
nC27	4.21	1.68	3.31	1.87	2.61	2.89
nC28	3.45	0.92	2.39	1.29	1.54	1.93
nC29	2.75	0.36	1.73	0.72	0.99	1.30
nC30	1.40	0.13	0.84	0.27	0.39	0.68
nC31	0.22	0.00	0.48	0.25	0.08	0.39
nC32	0.00	0.00	0.24	0.00	0.00	0.19
nC33	0.00	0.00	0.33	0.00	0.00	0.14
nC34	0.00	0.00	0.21	0.00	0.00	0.10
nC35	0.00	0.00	0.09	0.00	0.00	0.05
Paraffin	32.30	34.90	27.46	31.12	26.85	22.30
Isoprenoid	3.56	4.92	3.78	4.94	4.81	3.83
Naphthene	64.14	60.18	68.76	63.94	68.34	73.86
CPI 1 Index	1.01	1.12	1.00	1.04	0.96	0.96
CPI 2 Index	1.09	1.16	1.09	1.18	1.11	1.09
CPI 3 Index	0.99	1.03	1.02	0.96	1.07	1.00
Prist/Phytane	1.66	2.54	1.88	1.85	1.85	1.97
Prist/nC17	0.39	0.39	0.46	0.47	0.55	0.57
Phytane/nC18	0.27	0.19	0.30	0.27	0.31	0.31

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CD - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	025A	026A	027A	028A	029A	030A
DEPTH	3282.5m	3283m	3283.5m	3284m	3284.5m	3285m
SAMPLE TYPE						
nC15	2.80	5.29	8.49	2.01	5.09	9.72
nC16	4.46	8.19	11.26	5.04	7.45	10.18
nC17	6.11	9.50	10.30	6.11	8.82	8.78
nC18	6.83	9.86	10.98	7.92	9.80	8.86
nC19	7.69	9.86	10.24	7.92	10.47	8.63
nC20	8.41	10.33	8.98	8.66	9.84	8.63
nC21	7.76	8.41	7.69	8.66	7.98	7.35
nC22	8.20	8.48	6.95	9.07	8.14	7.62
nC23	8.41	7.36	5.51	7.39	6.96	6.61
nC24	6.97	5.55	5.14	8.13	5.79	5.71
nC25	6.69	4.60	3.63	7.25	5.63	5.32
nC26	5.90	3.52	3.01	5.24	4.03	4.16
nC27	5.10	2.79	2.46	5.57	3.42	3.30
nC28	4.10	1.99	1.81	3.43	2.46	2.02
nC29	3.88	1.74	1.51	3.02	1.96	1.32
nC30	2.23	1.05	0.92	1.88	1.02	0.70
nC31	1.80	0.58	0.46	1.01	0.47	0.47
nC32	0.93	0.29	0.22	0.54	0.16	0.21
nC33	0.93	0.33	0.25	0.60	0.25	0.19
nC34	0.50	0.22	0.12	0.40	0.18	0.14
nC35	0.29	0.07	0.06	0.13	0.08	0.08
Paraffin	39.75	29.15	28.78	29.55	25.76	23.59
Isoprenoid	3.30	4.30	4.92	2.38	3.65	3.41
Naphthene	56.95	66.55	66.30	68.07	70.59	73.00
CPI 1 Index	1.03	1.01	0.97	1.02	1.02	1.01
CPI 2 Index	1.12	1.11	1.05	1.21	1.18	1.15
CPI 3 Index	1.02	1.01	1.02	1.28	1.05	1.07
Prist/Phytane	2.04	1.56	1.78	1.38	1.52	1.87
Prist/nC17	0.55	0.52	0.57	0.48	0.57	0.64
Phytane/nC18	0.24	0.32	0.30	0.27	0.34	0.34

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	031A	032A	033A	034A	035A	036A
DEPTH	3285.5m	3285.75m	3286.25m	3286.75m	3287.5m	3288m
SAMPLE TYPE						
nC15	12.10	7.68	11.44	10.18	8.63	3.04
nC16	10.82	9.73	10.29	9.27	10.20	7.17
nC17	9.90	9.45	9.15	7.92	9.65	8.92
nC18	8.98	9.27	8.81	7.89	8.78	9.82
nC19	9.44	8.47	7.87	7.82	9.14	9.82
nC20	9.30	8.92	7.82	7.15	8.78	9.85
nC21	8.52	7.70	6.92	6.66	8.24	8.65
nC22	6.87	7.33	7.03	7.18	7.37	8.49
nC23	6.23	6.63	6.13	6.05	6.67	8.18
nC24	5.00	5.58	6.09	6.10	6.04	6.23
nC25	4.35	4.86	4.56	5.88	5.18	5.45
nC26	3.30	3.87	4.31	5.01	3.84	4.40
nC27	2.43	2.92	3.51	4.08	2.82	3.97
nC28	1.24	2.48	2.40	2.88	1.96	2.73
nC29	0.73	2.06	1.73	2.78	1.33	1.79
nC30	0.32	1.29	1.03	1.50	0.59	0.93
nC31	0.18	0.75	0.45	0.76	0.35	0.31
nC32	0.11	0.32	0.13	0.32	0.16	0.06
nC33	0.09	0.33	0.18	0.32	0.14	0.08
nC34	0.05	0.23	0.09	0.22	0.08	0.08
nC35	0.02	0.11	0.04	0.05	0.06	0.04
Paraffin	26.68	27.15	25.21	27.45	20.58	19.94
Isoprenoid	4.54	3.87	3.44	2.98	3.65	2.60
Naphthene	68.78	68.98	71.35	69.57	75.77	77.46
CPI 1 Index	1.10	1.00	0.95	0.98	1.04	1.05
CPI 2 Index	1.16	1.07	1.02	1.13	1.13	1.11
CPI 3 Index	1.07	0.92	1.05	1.03	0.97	1.11
Prist/Phytane	1.72	1.76	1.63	1.62	1.63	1.32
Prist/nC17	0.57	0.53	0.43	0.43	0.61	0.59
Phytane/nC18	0.37	0.31	0.27	0.26	0.41	0.40

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	037A	038A	039A	040A	041A	042A
DEPTH	3288.5m	3288.75m	3290m	3291m	3291.5m	3292m
SAMPLE TYPE						
nC15	3.54	2.98	1.54	21.36	4.86	13.73
nC16	7.26	7.92	3.86	20.36	7.29	15.24
nC17	8.99	9.30	5.30	15.55	7.77	12.56
nC18	9.59	10.43	7.59	12.05	8.80	9.81
nC19	10.93	10.65	8.17	7.84	8.08	7.79
nC20	9.33	10.47	9.05	6.44	8.56	6.20
nC21	9.85	9.23	8.77	3.29	8.50	4.65
nC22	7.87	8.50	9.24	2.26	7.53	4.11
nC23	7.00	7.20	8.11	1.43	7.59	3.37
nC24	5.88	6.25	8.06	1.40	6.74	3.30
nC25	4.93	4.94	6.57	1.55	6.01	3.06
nC26	4.84	4.14	5.66	1.03	4.61	3.33
nC27	3.59	3.13	5.30	1.29	4.25	2.83
nC28	2.51	2.25	4.30	1.12	3.46	2.29
nC29	1.99	1.45	3.24	1.00	2.67	2.52
nC30	0.99	0.65	2.35	0.74	1.58	1.71
nC31	0.52	0.29	1.30	0.60	0.91	1.24
nC32	0.13	0.07	0.63	0.23	0.30	0.66
nC33	0.15	0.07	0.52	0.26	0.24	0.78
nC34	0.09	0.04	0.34	0.11	0.18	0.50
nC35	0.02	0.02	0.10	0.09	0.06	0.31
Paraffin	29.59	18.86	25.15	21.60	22.50	32.97
Isoprenoid	3.32	2.26	2.07	4.99	2.28	4.63
Naphthene	67.09	78.88	72.78	73.41	75.22	62.40
CPI 1 Index	1.06	1.00	0.98	0.99	1.07	0.94
CPI 2 Index	1.04	1.06	1.04	1.23	1.12	1.06
CPI 3 Index	0.98	0.98	1.06	1.20	1.05	1.01
Prist/Phytane	1.55	1.60	1.11	2.16	1.62	1.93
Prist/nC17	0.65	0.59	0.59	0.64	0.57	0.42
Phytane/nC18	0.40	0.33	0.37	0.38	0.31	0.28

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	043A	044A	045A	046A	047A	048A
DEPTH	3292.5m	3292.75m	3293m	3293.75m	3295m	3330.2m
SAMPLE TYPE						
nC15	7.95	7.12	2.65	7.11	1.90	4.41
nC16	8.53	9.36	4.26	11.71	3.95	5.74
nC17	7.48	8.73	6.54	12.48	4.90	6.81
nC18	7.02	9.19	8.15	12.00	6.94	7.31
nC19	7.37	8.94	9.26	10.18	8.10	7.64
nC20	8.12	8.56	9.94	9.70	9.25	8.16
nC21	7.95	8.38	8.45	7.59	9.39	7.80
nC22	7.60	7.89	10.06	6.82	8.98	8.21
nC23	6.73	6.38	8.27	5.38	8.03	7.28
nC24	6.32	6.17	7.22	4.32	7.89	7.43
nC25	6.03	5.40	5.99	3.94	7.14	6.44
nC26	4.93	4.07	5.86	2.59	5.85	5.64
nC27	4.00	3.16	4.44	2.21	4.76	4.94
nC28	2.84	2.38	3.09	1.49	3.95	4.33
nC29	2.67	1.86	2.53	1.06	3.13	3.26
nC30	1.74	1.05	1.48	0.58	2.04	2.31
nC31	1.16	0.63	0.74	0.29	1.56	1.37
nC32	0.58	0.28	0.43	0.10	0.82	0.29
nC33	0.52	0.25	0.37	0.19	0.75	0.29
nC34	0.35	0.14	0.19	0.19	0.48	0.24
nC35	0.12	0.07	0.09	0.10	0.20	0.10
Paraffin	22.82	20.61	23.95	28.08	15.47	25.70
Isoprenoid	2.43	2.38	2.27	3.29	1.34	2.96
Naphthene	74.75	77.01	73.78	68.63	83.19	71.34
CPI 1 Index	1.03	1.01	0.93	1.04	1.01	0.97
CPI 2 Index	1.12	1.11	1.02	1.21	1.08	1.04
CPI 3 Index	1.03	0.98	0.99	1.08	0.97	0.99
Prist/Phytane	1.63	1.47	1.31	1.87	1.15	1.34
Prist/nC17	0.58	0.40	0.52	0.43	0.74	0.73
Phytane/nC18	0.38	0.26	0.32	0.24	0.45	0.50

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core



TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	049A	050A	051A	052A	053A	054A
DEPTH	3332.5m	3333.4m	3335.25m	3335.5m	3336.5m	3337m
SAMPLE TYPE						
nC15	3.38	8.51	4.53	2.82	3.25	3.16
nC16	5.65	10.43	6.60	5.12	5.91	5.73
nC17	6.64	9.76	7.40	6.62	7.77	7.50
nC18	7.52	8.76	7.50	7.86	9.23	8.24
nC19	9.19	8.29	8.73	7.06	9.63	9.21
nC20	8.45	8.19	7.83	7.59	8.83	8.37
nC21	8.42	7.47	8.25	6.88	8.90	8.95
nC22	8.20	6.41	8.36	6.80	8.70	7.92
nC23	7.32	6.15	7.85	6.27	7.17	7.95
nC24	6.38	5.52	6.53	7.94	6.24	6.63
nC25	6.54	4.81	6.88	6.71	5.58	5.92
nC26	5.33	4.05	5.65	6.71	5.18	5.41
nC27	4.76	3.61	4.71	5.12	4.12	4.44
nC28	3.96	2.88	3.69	4.59	3.32	3.80
nC29	3.24	2.57	3.06	3.53	2.39	3.09
nC30	2.15	1.70	1.83	2.82	1.53	1.48
nC31	1.46	0.80	0.57	1.85	1.00	0.97
nC32	0.45	0.07	0.06	0.97	0.46	0.45
nC33	0.42	0.00	0.00	1.50	0.40	0.39
nC34	0.37	0.00	0.00	0.88	0.27	0.26
nC35	0.15	0.00	0.00	0.35	0.13	0.13
Paraffin	25.98	27.94	24.43	19.48	24.70	23.23
Isoprenoid	3.42	5.14	2.92	2.28	2.84	2.65
Naphthene	70.60	66.92	72.65	78.24	72.46	74.12
CPI 1 Index	1.04	1.04	1.06	0.91	0.99	1.05
CPI 2 Index	1.12	1.09	1.11	0.96	1.03	1.06
CPI 3 Index	1.02	1.04	1.01	0.91	0.97	0.96
Prist/Phytane	1.36	1.78	1.65	1.60	1.40	1.46
Prist/nC17	0.90	0.72	0.75	0.64	0.63	0.68
Phytane/nC18	0.59	0.45	0.45	0.34	0.38	0.42

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings OO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	055A	056A	057A	058A	059A	060A
DEPTH	3337.25m	3337.5m	3338m	3338.5m	3338.75m	3687m
SAMPLE TYPE						
nC15	6.32	3.45	4.94	4.92	2.75	4.00
nC16	8.28	5.45	7.19	6.66	3.94	5.34
nC17	7.39	6.23	7.30	6.88	4.08	5.19
nC18	8.46	7.69	7.98	7.60	4.84	5.59
nC19	7.81	8.41	7.87	7.97	6.14	5.19
nC20	7.99	8.66	7.81	9.20	8.20	5.71
nC21	7.99	8.17	7.98	7.53	8.05	4.89
nC22	7.33	8.05	8.03	7.39	7.85	5.71
nC23	7.09	7.75	7.98	7.60	9.41	6.22
nC24	6.79	7.81	6.74	7.17	8.63	6.52
nC25	6.02	6.72	6.63	6.44	7.44	7.04
nC26	5.07	6.05	5.34	5.29	7.38	6.08
nC27	4.29	4.72	4.61	4.78	6.57	6.60
nC28	3.34	4.18	3.43	3.33	3.76	6.48
nC29	2.44	2.60	2.70	3.04	4.05	5.63
nC30	1.43	1.69	1.52	1.67	2.35	3.74
nC31	0.89	1.09	0.90	1.16	1.71	3.52
nC32	0.42	0.54	0.39	0.51	0.96	2.04
nC33	0.36	0.42	0.34	0.43	0.93	2.22
nC34	0.24	0.24	0.22	0.29	0.61	1.37
nC35	0.06	0.06	0.11	0.14	0.35	0.93
Paraffin	23.14	21.45	23.02	21.37	26.37	18.60
Isoprenoid	2.89	2.46	2.66	2.16	1.98	2.16
Naphthene	73.97	76.09	74.32	76.47	71.65	79.24
CPI 1 Index	1.03	0.97	1.06	1.02	1.06	1.01
CPI 2 Index	1.07	0.99	1.13	1.16	1.13	1.12
CPI 3 Index	1.02	0.92	1.05	1.11	1.18	1.05
Prist/Phytane	1.73	1.44	1.73	1.56	1.47	1.88
Prist/nC17	0.73	0.76	0.75	0.74	0.75	0.91
Phytane/nC18	0.37	0.43	0.39	0.43	0.43	0.45

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	061A	062A	063A	064A	065A	066A
DEPTH	3688m	3690m	3692m	3694m	3697m	3700m
SAMPLE TYPE						
nC15	4.38	5.68	1.29	3.47	3.51	2.92
nC16	5.24	6.42	2.57	4.07	4.53	3.26
nC17	4.67	5.99	3.35	4.27	4.06	3.76
nC18	5.24	6.14	5.14	4.51	4.69	4.26
nC19	5.08	6.17	6.16	4.83	5.00	4.43
nC20	5.51	6.87	7.04	6.54	5.95	5.68
nC21	5.83	6.14	8.25	6.23	6.20	6.18
nC22	6.16	7.33	7.44	6.78	6.08	7.10
nC23	5.97	6.81	7.54	6.38	5.70	6.52
nC24	5.78	6.14	7.85	6.62	5.54	7.69
nC25	6.10	5.62	8.12	7.02	6.31	7.72
nC26	6.37	6.42	6.77	5.91	7.01	6.90
nC27	5.62	5.41	6.63	6.46	6.94	7.41
nC28	6.75	4.58	5.28	5.43	5.65	6.96
nC29	5.78	5.16	5.18	5.87	6.65	7.26
nC30	4.21	2.90	3.52	5.03	4.64	4.45
nC31	4.05	2.26	2.91	3.75	3.99	3.69
nC32	2.38	1.68	1.62	2.27	2.59	1.70
nC33	2.32	1.41	1.59	2.08	2.39	1.10
nC34	1.57	0.67	1.08	1.52	1.55	0.70
nC35	0.97	0.18	0.68	0.96	1.04	0.30
Paraffin	18.93	16.09	21.14	18.49	20.76	17.37
Isoprenoid	1.78	1.60	1.22	1.12	1.62	1.22
Naphthene	79.29	82.31	77.65	80.39	77.62	81.42
CPI 1 Index	0.96	0.94	1.08	1.03	1.03	0.99
CPI 2 Index	1.01	1.05	1.15	1.12	1.12	1.15
CPI 3 Index	0.86	0.98	1.10	1.14	1.10	1.07
Prist/Phytane	1.84	1.84	1.59	1.68	1.81	2.14
Prist/nC17	0.72	0.57	0.71	0.59	0.81	0.67
Phytane/nC18	0.35	0.30	0.29	0.33	0.38	0.27

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	067A	068A	069A	070A	071A	072A
DEPTH	3770m	3771m	3772.5m	3775m	3777m	3921m
SAMPLE TYPE						
nC15	10.56	10.48	7.45	8.63	8.44	7.13
nC16	11.12	11.05	8.50	8.44	8.32	8.18
nC17	10.32	8.59	7.71	8.30	7.29	7.62
nC18	9.85	7.93	6.92	7.84	6.68	7.64
nC19	8.34	7.27	6.66	7.70	6.20	7.85
nC20	7.78	6.80	6.84	8.18	7.05	7.38
nC21	8.10	6.52	5.70	7.09	6.56	6.67
nC22	6.83	7.46	5.52	7.00	6.74	6.89
nC23	6.35	5.76	6.22	6.70	6.87	6.09
nC24	4.61	4.91	5.61	5.53	6.68	6.20
nC25	3.73	5.38	5.17	4.98	5.77	5.35
nC26	2.94	3.97	5.43	4.28	5.29	4.87
nC27	2.30	4.06	5.52	4.30	5.04	4.83
nC28	1.99	2.74	4.38	3.12	3.71	3.59
nC29	1.67	2.55	3.86	2.67	3.58	3.50
nC30	1.19	1.51	2.89	1.88	2.19	2.23
nC31	0.79	1.04	1.93	1.28	1.52	1.59
nC32	0.50	0.76	0.96	0.72	0.79	0.92
nC33	0.54	0.66	1.05	0.72	0.73	0.86
nC34	0.33	0.38	0.61	0.42	0.43	0.43
nC35	0.16	0.19	1.05	0.23	0.12	0.19
Paraffin	27.29	32.73	20.66	30.40	38.10	35.16
Isoprenoid	5.44	6.13	2.05	2.70	3.75	3.63
Naphthene	67.27	61.14	77.29	66.90	58.15	61.21
CPI 1 Index	1.09	1.04	1.02	1.04	1.01	0.98
CPI 2 Index	1.04	1.22	1.05	1.11	1.11	1.11
CPI 3 Index	0.93	1.21	1.13	1.16	1.12	1.14
Prist/Phytane	2.55	2.88	2.53	1.84	2.24	2.54
Prist/nC17	0.75	0.76	0.49	0.36	0.39	0.51
Phytane/nC18	0.31	0.29	0.22	0.20	0.19	0.20

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15</sub>+ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	073A	074A	075A	076A	077A	078A
DEPTH	3922m	3922.5m	3923.25m	3924.5m	3925.25m	3925.75m
SAMPLE TYPE						
nC15	6.59	9.86	3.09	15.12	6.34	1.82
nC16	7.67	9.49	4.97	13.33	7.99	4.12
nC17	7.53	8.53	6.35	11.53	8.42	5.42
nC18	7.34	8.16	7.22	9.85	8.29	7.30
nC19	7.33	7.30	7.95	8.51	7.79	8.06
nC20	8.32	7.02	8.34	7.65	7.65	8.27
nC21	6.96	6.41	8.26	6.75	7.25	8.51
nC22	6.74	6.91	8.40	5.63	6.31	7.89
nC23	6.12	5.90	7.44	5.17	5.97	8.84
nC24	5.98	5.51	6.74	4.20	5.77	6.79
nC25	6.31	5.77	6.68	3.60	5.64	7.36
nC26	5.03	4.41	5.39	2.68	5.23	5.85
nC27	4.60	3.91	5.11	2.00	4.77	6.11
nC28	3.81	3.18	4.02	1.54	3.29	3.56
nC29	3.37	2.95	3.65	1.14	3.22	4.41
nC30	2.16	1.95	2.27	0.64	2.15	2.21
nC31	1.64	1.27	1.74	0.26	1.61	1.55
nC32	0.88	0.51	0.87	0.12	0.87	0.71
nC33	0.83	0.52	0.84	0.18	0.67	0.68
nC34	0.51	0.32	0.51	0.06	0.54	0.36
nC35	0.27	0.10	0.17	0.03	0.23	0.17
Paraffin	34.73	28.37	38.43	45.34	39.72	34.05
Isoprenoid	3.50	3.61	3.77	5.55	4.79	2.91
Naphthene	61.77	68.02	57.80	49.11	55.49	63.04
CPI 1 Index	1.02	1.01	1.04	1.06	1.05	1.17
CPI 2 Index	1.14	1.15	1.15	1.09	1.12	1.32
CPI 3 Index	1.04	1.03	1.09	0.95	1.12	1.30
Prist/Phytane	2.02	2.17	2.26	4.83	2.55	1.74
Prist/nC17	0.60	0.60	0.62	0.50	0.50	0.73
Phytane/nC18	0.31	0.29	0.24	0.12	0.20	0.31

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27} + C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31} + C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11  
COMPOSITION (NORMALISED %) OF C<sub>15+</sub> SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	079A	080A	081A	082A	083	084
DEPTH	3926.25m	3926.75m	3928m	3929.2m	DST 1	DST 2
SAMPLE TYPE						
nC15	2.51	1.99	5.87	9.91	12.10	14.53
nC16	4.18	3.72	7.63	9.97	11.74	15.05
nC17	5.40	5.03	7.67	8.19	10.60	12.70
nC18	6.40	6.44	8.24	8.05	9.25	12.45
nC19	7.62	7.01	8.87	8.42	9.08	10.45
nC20	8.03	7.27	8.85	7.52	8.67	10.23
nC21	8.54	7.56	7.51	7.19	8.12	7.43
nC22	8.33	7.16	7.32	6.36	6.39	6.14
nC23	8.74	8.13	6.66	5.08	5.43	4.57
nC24	7.70	7.85	5.68	4.92	4.83	2.65
nC25	7.15	7.56	5.44	4.81	4.90	1.87
nC26	6.40	6.58	4.86	4.39	2.97	1.02
nC27	5.65	5.86	4.04	3.51	2.25	0.64
nC28	3.77	4.30	3.14	2.91	1.58	0.22
nC29	3.60	4.66	2.84	2.93	1.02	0.03
nC30	2.13	2.96	1.99	1.78	0.59	0.02
nC31	1.55	2.31	1.38	1.32	0.25	0.00
nC32	0.80	1.37	0.75	0.60	0.11	0.00
nC33	0.84	1.30	0.75	1.24	0.08	0.00
nC34	0.50	0.76	0.42	0.65	0.04	0.00
nC35	0.17	0.18	0.09	0.24	0.01	0.00
Paraffin	38.23	45.83	38.01	32.95	28.08	26.35
Isoprenoid	3.16	3.40	4.75	3.29	4.23	4.46
Naphthene	58.61	50.77	57.24	63.76	67.69	69.19
CPI 1 Index	1.07	1.07	1.01	1.00	1.11	1.09
CPI 2 Index	1.13	1.14	1.08	1.10	1.22	1.33
CPI 3 Index	1.11	1.08	1.01	0.96	0.99	1.03
Prist/Phytane	2.08	2.13	1.76	3.41	1.54	2.43
Prist/nC17	0.64	0.60	0.56	0.68	0.57	0.72
Phytane/nC18	0.26	0.22	0.30	0.20	0.43	0.30

Job Number : 5977

$$C.P.I. 1 = \frac{1}{2} \left[ \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[ \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 12  
METHYLPHENANTHRENE INDICES (MPI)

WELL 5977	DEPTH/ IDENTITY	SAMPLE TYPE	MPI 1		Rcalc		MPI 2	
			AREA	HEIGHT	AREA	HEIGHT	AREA	HEIGHT

WELL: 6507/2-2

5977-003A	CORE	2823.25m	0.63	0.70			0.74	0.77
5977-005A	CORE	2824.50m	0.72	0.84			0.88	0.86
5977-007A	CORE	2825.50m	0.74	0.85			0.86	0.92
5977-010A	CORE	2828.00m	0.76	0.98			0.90	0.93
5977-012A	CORE	2831.00m	0.83	0.88			1.00	0.98
5977-014A	CORE	2832.00m	0.88	0.91			0.98	0.97
5977-016A	CORE	3273.50m	0.67	0.73			0.76	0.69
5977-021A	CORE	3280.50m	0.63	0.70			0.76	0.68
5977-023A	CORE	3281.50m	0.65	0.66			0.75	0.63
5977-025A	CORE	3282.50m	0.70	0.67			0.79	0.65
5977-028A	CORE	3284.00m	0.72	0.83			0.84	0.81
5977-030A	CORE	3285.00m	0.64	0.70			0.78	0.71
5977-032A	CORE	3285.75m	0.68	0.61			0.79	0.63
5977-034A	CORE	3286.75m	0.59	0.60			0.68	0.61
5977-036A	CORE	3288.00m	0.72	0.63			0.89	0.61
5977-039A	CORE	3290.00m	0.66	0.74			0.80	0.75
5977-043A	CORE	3292.50m	0.57	0.56			0.64	0.57
5977-045A	CORE	3293.00m	0.65	0.69			0.79	0.69
5977-047A	CORE	3295.00m	0.64	0.67			0.82	0.68
5977-049A	CORE	3332.50m	0.67	0.72			0.83	0.74
5977-052A	CORE	3335.50m	0.58	0.57			0.70	0.61
5977-054A	CORE	3337.00m	0.71	0.68			0.88	0.71
5977-056A	CORE	3337.50m	0.59	0.60			0.73	0.63
5977-058A	CORE	3338.50m	0.59	0.63			0.71	0.63
5977-060A	CORE	3687.00m	0.77	0.93			0.97	1.01
5977-062A	CORE	3690.00m	0.71	0.76			0.83	0.82
5977-064A	CORE	3694.00m	0.76	0.81			0.96	0.89
5977-066A	CORE	3700.00m	0.87	1.04			1.04	1.02
5977-067A	CORE	3770.00m	0.65	0.71			0.80	0.72
5977-069A	CORE	3772.50m	0.72	0.72			0.89	0.74
5977-071A	CORE	3777.00m	0.57	0.55			0.64	0.55
5977-073A	CORE	3922.00m	0.60	0.66			0.71	0.71
5977-075A	CORE	3923.25m	0.68	0.70			0.82	0.77
5977-076A	CORE	3924.50m	0.57	0.61			0.67	0.73
5977-078A	CORE	3925.75m	0.69	0.71			0.85	0.77
5977-080A	CORE	3926.75m	0.67	0.69			0.80	0.70
5977-082A	CORE	3929.20m	0.56	0.53			0.67	0.60
5977-083	DST	1	0.63	0.58			0.79	0.57
5977-084	DST	2	1.04	1.30			1.26	1.35

$$1 = \frac{1.5(2-MP + 3-MP)}{P + 1-MP + 9-MP}$$

$$MPI\ 2 = \frac{3(2-MP)}{P + 1-MP + 9-MP}$$

$$Rcalc = \begin{cases} 0.60(MPI\ 1) + 0.40 & \text{( if } Ro < 1.35\% \text{ )} \\ -0.60(MPI\ 1) + 2.30 & \text{( if } Ro > 1.35\% \text{ )} \end{cases}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 13  
CARBON ISOTOPE COMPOSITIONS (‰, PDB)

JOB 5977								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)

WELL: 6507/2-2

5977-014A	CORE 2832.00m	-28.18	-28.22	-27.49	-26.89	-28.27		
5977-019A	CORE 3278.00m	-27.82	-28.76	-27.17	-27.46	-27.36		
5977-019A	CORE 3278.00m			-27.08				
5977-054A	CORE 3337.00m	-28.64	-28.79	-27.95	-28.41	-29.66		
5977-078A	CORE 3925.75m	-28.41	-28.44	-27.43	-27.90	-28.06		
5977-082A	CORE 3929.20m	-28.27	-28.27	-26.00	-27.01	-26.03	-25.69	-28.46
5977-082A	CORE 3929.20m	-26.20						
5977-083	DST 1	-27.98	-28.75	-27.00	-28.88	-30.23		
5977-083	DST 1			-26.96		-30.13		
5977-084	DST 2	-27.57	-27.89	-27.39	-27.95	-27.50		
5977-084	DST 2	-27.67						



0	Depth start int	1	Depth end int.	2	Sample type	3	Lith.	4	W. . .	5	Company	6	MS- file	7	26Y 360-191/2	8	26YY 360-191/2	9	25Y 346-191	10	24Y 332-191/1
1	1.00	1.00	POWDER	PIPELAX	6507/2-2	ROBERTSON	MQS1A150193	14200.00	15900.00	33300	827000										
2	1.00	1.00	LIQUID	PIPELAX	6507/2-2	ROBERTSON	MQS1A150193	22300.00	20600.00	62800	260000										
3	1.00	1.00	DST1		6507/2-2	HYDRO	MQS1A180293A	0.01	0.01	90000	174000										
4	2.00	2.00	DST2		6507/2-2	HYDRO	MQS1A180293A	45300.00	51400.00	81400	426000										
5	2823.50	2823.50	CORE	SST	6507/2-2	Geochem#59	MQS1A300193	19900.00	16300.00	29200	92400										
6	2831.00	2831.00	CORE	SST	6507/2-2	Geochem#59	MQS1A300193	5100.00	5800.00	9120	29500										
7	2832.50	2832.50	CORE	SST	6507/2-2	Geochem#59	MQS1A300193	49800.00	51400.00	87800	255000										
8	3273.50	3273.50	CORE	SST	6507/2-2	Geochem#59	MQS1A220193	25900.00	21200.00	40100	121000										
9	3285.50	3285.50	CORE	SST	6507/2-2	Geochem#59	MQS1A220193	30000.00	33200.00	41400	183000										
10	3289.00	3289.00	CORE	SST	6507/2-2	ROBERTSON	MQS1A180193	32500.00	28500.00	63800	193000										
11	3332.50	3332.50	CORE	SST	6507/2-2	Geochem#59	MQS1A220193	33600.00	36800.00	68500	221000										
12	3333.55	3333.55	CORE	SST	6507/2-2	ROBERTSON	MQS1A180193	13800.00	19900.00	24400	92100										
13	3337.50	3337.50	CORE	SST	6507/2-2	Geochem#59	MQS1A220193	19200.00	20400.00	27600	89800										
14	3405.00	3407.00	DC	SH	6507/2-2	HYDRO	MQS1A180293A	75700.00	79400.00	177000	637000										
15	3513.00	3515.00	DC	SH	6507/2-2	HYDRO	MQS1A180293A	116000.00	98100.00	242000	899000										
16	3697.00	3697.00	CORE	SST	6507/2-2	Geochem#59	MQS1A220193	14100.00	16500.00	28400	75400										
17	3775.00	3775.00	CORE	SST	6507/2-2	Geochem#59	MQS1A220193	6420.00	7840.00	16900	47900										
18	3882.00	3885.00	DC	SH	6507/2-2	HYDRO	MQS1A180293A	3560.00	5250.00	5100	23700										
19	3924.50	3924.50	CORE	COAL	6507/2-2	HYDRO	MQS1A180293A	5640.00	3430.00	8600	29800										
20	3925.75	3925.75	CORE	SST	6507/2-2	Geochem#59	MQS1A220193	58700.00	53200.00	102000	370000										
21	3929.20	3929.20	CORE	COAL	6507/2-2	Geochem#59	MQS1A220193	6650.00	11000.00	16700	61400										
22																					
23	ST150193A						MQS1A150193	33300.00	33400.00	74200	232000										
24	ST180193A						MQS1A180193	50400.00	52000.00	106000	330000										
25	ST180193B						MQS1A180193	67200.00	68400.00	138000	461000										
26	ST180293A						MQS1A180293A	34200.00	34800.00	72400	230000										
27	ST180293B						MQS1A180293A	41700.00	37600.00	75700	261000										
28	ST220193A						MQS1A220193	42000.00	47300.00	100000	306000										
29	ST220193B						MQS1A220193	30200.00	27500.00	53200	159000										
30	ST300193B						MQS1A300193	28000.00	29700.00	63600	165000										

0 Depth	11 24X	12 23Y	13 22Y	14 21Y	15 20Y	16 23a	17 23k	18 22a	19 22k	
start int	330-191	318-191	304-191	290-191	276-191	316-217/1	316-217/2	302-217/1	302-217/2	
1	1.00	113000	210000	46500.00	205000.00	311000.00	109000	38900.00	243000	188000
2	1.00	154000	730000	358000.00	1510000.00	2680000.00	692000	152000.00	2840000	1110000
3	1.00	160000	364000	0.01	0.01	0.01	648000	0.01	1520000	412000
4	2.00	637000	976000	228000.00	1920000.00	3940000.00	10700000	100000.00	4560000	1320000
5	2823.50	350000	232000	50000.00	469000.00	1670000.00	202000	44600.00	890000	413000
6	2831.00	123000	60000	14000.00	127000.00	407000.00	65100	13700.00	268000	118000
7	2832.50	1100000	672000	200000.00	1170000.00	4170000.00	742000	107000.00	2830000	1210000
8	3273.50	170000	235000	70000.00	361000.00	786000.00	229000	28700.00	734000	249000
9	3285.50	284000	383000	103000.00	642000.00	1630000.00	370000	47800.00	1270000	435000
10	3289.00	289000	405000	0.01	705000.00	1560000.00	580000	88800.00	1900000	506000
11	3332.50	278000	414000	135000.00	568000.00	1180000.00	426000	53800.00	1250000	362000
12	3333.55	95400	177000	50000.00	262000.00	692000.00	214000	16800.00	678000	192000
13	3337.50	107000	164000	50000.00	247000.00	524000.00	169000	21400.00	575000	167000
14	3405.00	469000	2030000	542000.00	1640000.00	1600000.00	300000	127000.00	870000	984000
15	3513.00	593000	2900000	691000.00	2170000.00	1930000.00	282000	156000.00	725000	1280000
16	3697.00	91000	201000	71900.00	222000.00	375000.00	117000	27900.00	358000	185000
17	3775.00	116000	102000	35900.00	155000.00	335000.00	72100	8990.00	231000	97600
18	3882.00	214000	56000	20000.00	73500.00	338000.00	34300	7000.00	109000	51300
19	3924.50	307000	115000	88900.00	117000.00	645000.00	38700	13700.00	149000	80300
20	3925.75	370000	700000	188000.00	1010000.00	2480000.00	741000	51900.00	2430000	5670000
21	3929.20	415000	173000	95900.00	282000.00	1720000.00	67800	22800.00	193000	103000
22										
23	ST150193A	299000	512000	189000.00	843000.00	1390000.00	843000	221000.00	2780000	1750000
24	ST180193A	436000	696000	292000.00	1330000.00	2040000.00	1050000	292000.00	3710000	2320000
25	ST180193B	628000	1020000	270000.00	1990000.00	3070000.00	1510000	435000.00	5240000	3250000
26	ST180293A	282000	470000	100000.00	539000.00	828000.00	864000	242000.00	2810000	1660000
27	ST180293B	312000	505000	100000.00	661000.00	927000.00	973000	255000.00	3130000	1840000
28	ST220193A	372000	636000	163000.00	1100000.00	1580000.00	860000	250000.00	2890000	1790000
29	ST220193B	217000	319000	109000.00	561000.00	824000.00	478000	146000.00	1480000	908000
30	ST300193B	269000	376000	100000.00	587000.00	933000.00	610000	184000.00	2200000	1480000

0 Depth	20 21a	21 21k	22 35A	23 35B	24 34A	25 34B	26 33A	27 33B	
start int	288-217/1	288-217/2	482-191/1	482-191/2	468-191/1	468-191/2	454-191/1	454-191/2	
1	1.00	362000	612000	105000.00	75800.00	205000	140000	321000	252000
2	1.00	6520000	7110000	3580.00	2520.00	5880	4270	14000	12300
3	1.00	1700000	2380000	11100.00	6600.00	35500	23700	83200	66800
4	2.00	5460000	7580000	0.01	0.01	17400	13200	53700	38900
5	2823.50	1450000	2230000	8180.00	6020.00	34000	27700	112000	74000
6	2831.00	395000	622000	0.01	0.01	12500	11700	44300	34100
7	2832.50	4320000	6560000	62300.00	41800.00	197000	147000	536000	398000
8	3273.50	1010000	1460000	11600.00	5410.00	25800	20200	69700	34900
9	3285.50	1850000	2540000	12000.00	9940.00	47200	39800	108000	80200
10	3289.00	2480000	3470000	23800.00	16300.00	60000	40800	111000	78500
11	3332.50	1630000	2190000	54600.00	35300.00	145000	94900	298000	188000
12	3333.55	898000	1190000	13800.00	9610.00	34900	20800	88800	62500
13	3337.50	715000	1020000	19100.00	15100.00	36400	22700	79900	51300
14	3405.00	1170000	3730000	74400.00	43400.00	182000	120000	437000	322000
15	3513.00	1110000	4500000	78100.00	47200.00	177000	126000	440000	309000
16	3697.00	506000	886000	16800.00	8140.00	35400	23000	67200	48000
17	3775.00	277000	483000	10100.00	8930.00	25700	18300	67800	47800
18	3882.00	125000	236000	0.01	0.01	8510	6880	25300	17400
19	3924.50	148000	316000	4060.00	4080.00	18100	14800	40400	35900
20	3925.75	3020000	4170000	22000.00	14200.00	43400	32700	101000	78800
21	3929.20	259000	532000	8650.00	5120.00	20100	19500	61400	45500
22									
23	ST150193A	5200000	7660000	193000.00	130000.00	336000	212000	693000	494000
24	ST180193A	7140000	10700000	267000.00	182000.00	469000	295000	1040000	690000
25	ST180193B	10500000	15600000	358000.00	227000.00	582000	409000	1300000	922000
26	ST180293A	4290000	6290000	170000.00	119000.00	318000	211000	658000	480000
27	ST180293B	4890000	6100000	186000.00	112000.00	307000	225000	664000	461000
28	ST220193A	5610000	8550000	198000.00	126000.00	378000	234000	731000	534000
29	ST220193B	2820000	4270000	148000.00	83700.00	230000	148000	465000	331000
30	ST300193B	3960000	6330000	164000.00	110000.00	294000	206000	711000	497000

0 Depth	28 32A	29 32B	30 31A	31 31B	32 31C	33 31D	34 30F	35 300	
start int	440-191/1	440-191/2	426-191/1	426-191/2	426-191/3	426-191/4	412-191	412-191	
1	1.00	586000	458000	1220000	977000	147000	45100.00	303000	150000.00
2	1.00	39900	26300	98900	70500	8540	4260.00	80100	20000.00
3	1.00	260000	167000	773000	500000	67300	0.01	749000	44000.00
4	2.00	218000	163000	963000	816000	103000	0.01	479000	0.01
5	2823.50	413000	325000	1620000	1440000	224000	0.01	598000	0.01
6	2831.00	151000	115000	595000	582000	90000	0.01	231000	0.01
7	2832.50	2110000	1610000	7570000	6860000	1180000	0.01	2710000	0.01
8	3273.50	197000	136000	552000	413000	55200	0.01	349000	19100.00
9	3285.50	366000	260000	1040000	818000	121000	8900.00	618000	50000.00
10	3289.00	356000	235000	981000	658000	86400	11000.00	905000	57000.00
11	3332.50	725000	484000	1790000	1250000	184000	0.01	944000	61000.00
12	3333.55	184000	123000	468000	325000	43800	5000.00	314000	30000.00
13	3337.50	189000	117000	435000	315000	46500	0.01	281000	21500.00
14	3405.00	1090000	714000	2920000	1960000	242000	0.01	580000	0.01
15	3513.00	1030000	692000	2860000	1950000	243000	0.01	616000	60000.00
16	3697.00	148000	106000	381000	260000	26300	10000.00	394000	23500.00
17	3775.00	178000	124000	371000	275000	17600	5000.00	421000	20000.00
18	3882.00	90200	63000	202000	170000	10400	0.01	357000	14900.00
19	3924.50	161000	122000	326000	255000	17600	0.01	663000	35000.00
20	3925.75	240000	168000	540000	388000	42100	14000.00	1960000	214000.00
21	3929.20	214000	141000	438000	351000	31600	10000.00	1230000	30000.00
22									
23	ST150193A	1300000	921000	2770000	1960000	203000	105000.00	1070000	100000.00
24	ST180193A	1970000	1380000	4240000	2940000	351000	181000.00	1540000	140000.00
25	ST180193B	2490000	1750000	5720000	3920000	460000	256000.00	2310000	300000.00
26	ST180293A	1230000	850000	2590000	1740000	190000	108000.00	973000	67200.00
27	ST180293B	1280000	905000	2730000	1860000	209000	112000.00	1070000	85000.00
28	ST220193A	1530000	1070000	3320000	2300000	266000	133000.00	1200000	0.01
29	ST220193B	855000	593000	1900000	1330000	163000	78700.00	675000	60000.00
30	ST300193B	1360000	911000	3040000	2230000	243000	132000.00	1220000	123000.00

0 Depth	36 30A	37 30H	38 30C	39 30G	40 30E	41 29N	42 29..	43 29F	44 29C	
start int	412-191	412-191	412-191	412-191	412-191	398-191	398-191	398-191	398-191	
1	1.00	4910000	238000	490000	194000.00	0.01	164000	4300000	1380000	650000
2	1.00	503000	18000	20700	10000.00	0.01	62100	660000	265000	502000
3	1.00	4050000	138000	241000	57900.00	0.01	1130000	3250000	1660000	276000
4	2.00	6600000	178000	461000	70000.00	0.01	802000	6460000	2460000	1180000
5	2823.50	10600000	344000	935000	0.01	0.01	905000	10200000	3390000	2030000
6	2831.00	3830000	118000	338000	0.01	0.01	285000	3610000	1200000	732000
7	2832.50	43900000	1620000	4190000	0.01	0.01	3830000	40200000	14000000	8900000
8	3273.50	2850000	94400	216000	27300.00	0.01	550000	2630000	1130000	312000
9	3285.50	5570000	182000	429000	0.01	0.01	859000	5080000	2150000	761000
10	3289.00	5390000	221000	351000	80000.00	0.01	1530000	5700000	2530000	488000
11	3332.50	7770000	283000	463000	66600.00	0.01	1060000	6750000	3130000	730000
12	3333.55	2130000	81000	126000	27000.00	0.01	442000	1850000	919000	215000
13	3337.50	2030000	72200	123000	19200.00	0.01	376000	1680000	804000	178000
14	3405.00	10600000	594000	650000	236000.00	0.01	5280000	9280000	4400000	855000
15	3513.00	9450000	641000	646000	250000.00	0.01	7380000	9900000	3200000	944000
16	3697.00	1470000	60000	83000	24900.00	0.01	426000	1580000	750000	124000
17	3775.00	1480000	95600	76100	23200.00	0.01	222000	958000	828000	78500
18	3882.00	986000	55100	46900	18500.00	0.01	131000	829000	720000	99800
19	3924.50	1670000	98000	90800	21400.00	0.01	269000	1100000	1190000	135000
20	3925.75	2460000	106000	161000	40000.00	0.01	1490000	2550000	3200000	450000
21	3929.20	2180000	136000	133000	30000.00	0.01	395000	1650000	1860000	234000
22										
23	ST150193A	11600000	604000	658000	190000.00	0.01	3320000	7550000	3810000	1300000
24	ST180193A	17600000	890000	980000	250000.00	0.01	4640000	11800000	5400000	2010000
25	ST180193B	23800000	1390000	1430000	380000.00	0.01	7300000	17400000	8480000	2890000
26	ST180293A	10000000	601000	592000	218000.00	0.01	3110000	6170000	3380000	1030000
27	ST180293B	11200000	650000	602000	239000.00	0.01	3280000	7270000	3450000	1160000
28	ST220193A	13800000	725000	796000	180000.00	0.01	3670000	9340000	4620000	1580000
29	ST220193B	7660000	392000	389000	80000.00	0.01	1930000	4980000	2400000	853000
30	ST300193B	13500000	684000	771000	200000.00	0.01	3310000	8830000	4050000	1460000

0 Depth	45 28A	46 28N	47 27F	48 27A	49 27E	50 30a	51 30b	52 30c	53 30d	
start int	384-191	384-191	370-191	370-191	370-191	414-217	414-217	414-217	414-217	
1	1.00	318000.00	0.01	1330000	2570000	446000	89500.00	93100.00	49700.00	38000.00
2	1.00	281000.00	0.01	927000	441000	32700	135000.00	108000.00	36500.00	30700.00
3	1.00	455000.00	0.01	2340000	1010000	59600	1040000.00	730000.00	357000.00	110000.00
4	2.00	3020000.00	0.01	2700000	2860000	343000	344000.00	263000.00	100000.00	42900.00
5	2823.50	4490000.00	0.01	3620000	4560000	663000	180000.00	163000.00	81700.00	45000.00
6	2831.00	1450000.00	0.01	1140000	1520000	221000	74800.00	77700.00	35700.00	18300.00
7	2832.50	18300000.00	0.01	13200000	17600000	2450000	822000.00	641000.00	326000.00	170000.00
8	3273.50	724000.00	0.01	2610000	1560000	126000	282000.00	219000.00	97200.00	46300.00
9	3285.50	1830000.00	0.01	4490000	3140000	299000	421000.00	345000.00	189000.00	60500.00
10	3289.00	1030000.00	0.01	6670000	3000000	160000	942000.00	764000.00	349000.00	197000.00
11	3332.50	517000.00	0.01	6260000	2350000	1330000	661000.00	503000.00	262000.00	84900.00
12	3333.55	238000.00	0.01	2020000	800000	45800	264000.00	211000.00	117000.00	52000.00
13	3337.50	213000.00	0.01	1800000	737000	38700	235000.00	193000.00	99300.00	44100.00
14	3405.00	1180000.00	0.01	3770000	2710000	387000	245000.00	195000.00	131000.00	74600.00
15	3513.00	1640000.00	0.01	3310000	3660000	559000	237000.00	190000.00	130000.00	110000.00
16	3697.00	419000.00	0.01	2070000	857000	638000	233000.00	200000.00	123000.00	70700.00
17	3775.00	107000.00	0.01	1920000	550000	24600	119000.00	92300.00	37500.00	22900.00
18	3882.00	17700.00	0.01	1150000	316000	12600	0.01	0.01	0.01	0.01
19	3924.50	0.01	0.01	1830000	462000	24700	0.01	0.01	0.01	0.01
20	3925.75	556000.00	0.01	9010000	1170000	50000	1220000.00	968000.00	494000.00	187000.00
21	3929.20	52000.00	0.01	5380000	1170000	67300	49500.00	54000.00	41900.00	26800.00
22										
23	ST150193A	7250000.00	0.01	6400000	3860000	282000	1040000.00	820000.00	478000.00	281000.00
24	ST180193A	11400000.00	0.01	10600000	6710000	469000	1410000.00	1130000.00	648000.00	370000.00
25	ST180193B	16900000.00	0.01	15300000	10100000	726000	2360000.00	1900000.00	1040000.00	664000.00
26	ST180293A	5030000.00	0.01	3440000	2090000	166000	1180000.00	892000.00	562000.00	320000.00
27	ST180293B	5520000.00	0.01	3820000	2350000	188000	1240000.00	980000.00	531000.00	350000.00
28	ST220193A	8830000.00	0.01	8280000	5440000	372000	1170000.00	921000.00	496000.00	300000.00
29	ST220193B	4830000.00	0.01	4600000	2950000	195000	659000.00	534000.00	302000.00	158000.00
30	ST300193B	6510000.00	0.01	5300000	3330000	221000	1030000.00	777000.00	485000.00	282000.00

0 Depth	54 30e	55 30f	56 30g	57 30h	58 29a	59 29b	60 2s	61 29d	62 29e	
start int	414-217	414-217	414-217	414-217	400-217	400-217	400-217	400-217	400-217	
1	1.00	60000.00	63000.00	67500.00	84500.00	612000	444000	162000	252000	313000
2	1.00	27000.00	41200.00	360000.00	253000.00	1210000	763000	216000	300000	207000
3	1.00	103000.00	178000.00	160000.00	109000.00	6280000	4400000	1290000	1790000	588000
4	2.00	73400.00	60000.00	100000.00	205000.00	3790000	2590000	713000	979000	641000
5	2823.50	79800.00	78000.00	103000.00	232000.00	2090000	1590000	500000	736000	680000
6	2831.00	26700.00	27000.00	40100.00	83000.00	723000	570000	171000	269000	217000
7	2832.50	331000.00	307000.00	453000.00	1230000.00	9230000	6970000	2360000	3290000	3140000
8	3273.50	45100.00	73100.00	70000.00	61600.00	2030000	1430000	443000	639000	314000
9	3285.50	74200.00	110000.00	123000.00	111000.00	3200000	2240000	695000	984000	542000
10	3289.00	125000.00	215000.00	222000.00	132000.00	6690000	4580000	1440000	1880000	832000
11	3332.50	86600.00	195000.00	185000.00	117000.00	5050000	3430000	1120000	1650000	665000
12	3333.55	44600.00	76700.00	75000.00	39700.00	1920000	1320000	431000	610000	225000
13	3337.50	35400.00	61000.00	61900.00	40300.00	1740000	1140000	358000	557000	211000
14	3405.00	155000.00	220000.00	237000.00	186000.00	2340000	1750000	610000	918000	1020000
15	3513.00	207000.00	265000.00	282000.00	224000.00	2120000	1710000	565000	930000	1250000
16	3697.00	73000.00	100000.00	106000.00	56500.00	1850000	1280000	437000	617000	371000
17	3775.00	18600.00	26000.00	32100.00	20200.00	946000	646000	214000	329000	130000
18	3882.00	0.01	0.01	0.01	0.01	300000	236000	78300	119000	99800
19	3924.50	0.01	0.01	0.01	0.01	725000	637000	290000	245000	258000
20	3925.75	210000.00	417000.00	400000.00	231000.00	10600000	7970000	2350000	3260000	1490000
21	3929.20	21700.00	33300.00	15000.00	33400.00	1120000	935000	285000	458000	335000
22										
23	ST150193A	437000.00	550000.00	615000.00	509000.00	8240000	6010000	1970000	3040000	1890000
24	ST180193A	578000.00	790000.00	874000.00	722000.00	11400000	8450000	2580000	4290000	2650000
25	ST180193B	1090000.00	1250000.00	1420000.00	1210000.00	18400000	13800000	4420000	7140000	4440000
26	ST180293A	517000.00	590000.00	684000.00	573000.00	8290000	5890000	1990000	3080000	1890000
27	ST180293B	529000.00	600000.00	731000.00	603000.00	8860000	6510000	2110000	3400000	1860000
28	ST220193A	415000.00	600000.00	702000.00	546000.00	9140000	6920000	2070000	3420000	1940000
29	ST220193B	248000.00	310000.00	371000.00	285000.00	4960000	3760000	1180000	1900000	1130000
30	ST300193B	445000.00	600000.00	681000.00	563000.00	8740000	6520000	2210000	3420000	2050000

0	Depth	63 29f	64 29g	65 29h	66 28a	67 28aa	68 28b	69 28bb	70 28c	71 28d
	start int	400-217	400-217	400-217	386-217	386-217	386-217	386-217	386-217	386-217
1	1.00	400000	1300000	1310000	572000	550000	390000	412000	201000	249000
2	1.00	263000	250000	160000	1250000	1340000	820000	877000	420000	395000
3	1.00	810000	790000	459000	3900000	4150000	3160000	2900000	1560000	1500000
4	2.00	670000	850000	1670000	3300000	3470000	2350000	2500000	1260000	1040000
5	2823.50	600000	867000	2110000	1900000	1800000	1300000	1440000	715000	729000
6	2831.00	210000	318000	717000	645000	623000	400000	492000	256000	249000
7	2832.50	2900000	4060000	9630000	8000000	8030000	6000000	6270000	3300000	3080000
8	3273.50	435000	445000	394000	1550000	1690000	1110000	1200000	614000	621000
9	3285.50	700000	749000	784000	2600000	2760000	1850000	2000000	1050000	1030000
10	3289.00	1100000	1120000	686000	5680000	5500000	4000000	4150000	2150000	2200000
11	3332.50	1000000	1040000	589000	3540000	3400000	2300000	2570000	1290000	1300000
12	3333.55	345000	359000	193000	1400000	1440000	980000	1030000	521000	517000
13	3337.50	310000	300000	180000	1280000	1320000	880000	942000	458000	443000
14	3405.00	1300000	1530000	938000	1300000	1410000	1020000	1150000	606000	647000
15	3513.00	1550000	1850000	1090000	1430000	1350000	1020000	1200000	637000	669000
16	3697.00	560000	576000	314000	1270000	1200000	900000	991000	490000	534000
17	3775.00	200000	212000	105000	628000	610000	420000	452000	243000	250000
18	3882.00	119000	110000	83600	114000	100000	75000	88600	47000	58000
19	3924.50	397000	375000	280000	222000	210000	150000	169000	92700	94500
20	3925.75	2200000	2250000	1150000	7710000	6780000	4800000	5160000	2400000	2420000
21	3929.20	475000	450000	361000	480000	505000	412000	380000	232000	242000
22										
23	ST150193A	2300000	2620000	1890000	5800000	5980000	4200000	4540000	2480000	2640000
24	ST180193A	3200000	3740000	2470000	8000000	8490000	5500000	6590000	3380000	3760000
25	ST180193B	5100000	5900000	4420000	13200000	13600000	9500000	10800000	5730000	6490000
26	ST180293A	2100000	2520000	1870000	5000000	5500000	3800000	4340000	2260000	2200000
27	ST180293B	2200000	2720000	2070000	5800000	5920000	4450000	4640000	2450000	2430000
28	ST220193A	2500000	3000000	1980000	7250000	7540000	5000000	5810000	2990000	3240000
29	ST220193B	1450000	1660000	1140000	3710000	3830000	2800000	2960000	1550000	1630000
30	ST300193B	2600000	2960000	2180000	5900000	6030000	4000000	4570000	2560000	2480000



0	Depth start int	72 28e 386-217	73 28f 386-217	74 28g 386-217	75 28h 386-217	76 27a 372-217	77 27b 372-217	78 27c 372-217	79 27d 372-217	80 27e 372-217
1	1.00	156000	778000	323000	873000	2090000	1200000	250000	512000	28600000
2	1.00	170000	432000	353000	195000	5290000	3170000	824000	1330000	770000
3	1.00	300000	851000	744000	439000	7270000	5330000	1580000	2160000	597000
4	2.00	535000	1530000	553000	2850000	7680000	4970000	1490000	1860000	1590000
5	2823.50	485000	1430000	603000	3020000	4210000	2730000	889000	1410000	1380000
6	2831.00	151000	485000	169000	976000	1320000	862000	281000	514000	447000
7	2832.50	2220000	6460000	2540000	13800000	16900000	12300000	4070000	5250000	6000000
8	3273.50	206000	573000	454000	464000	4790000	3050000	979000	1630000	524000
9	3285.50	338000	982000	693000	1170000	7730000	5090000	1610000	2620000	1000000
10	3289.00	440000	1300000	1100000	738000	15200000	9400000	2750000	4940000	1190000
11	3332.50	333000	1030000	851000	494000	10400000	6440000	2010000	3300000	972000
12	3333.55	122000	372000	317000	188000	4430000	2810000	779000	1440000	348000
13	3337.50	116000	333000	295000	162000	3920000	2540000	715000	1260000	310000
14	3405.00	558000	1470000	1310000	779000	3100000	2170000	704000	1060000	1040000
15	3513.00	660000	1850000	1690000	959000	3180000	2210000	745000	1070000	1350000
16	3697.00	227000	573000	496000	276000	3510000	2350000	738000	1270000	585000
17	3775.00	73000	202000	176000	81300	1760000	1070000	318000	623000	164000
18	3882.00	27000	65000	53900	28400	178000	113000	38800	90300	25000
19	3924.50	57800	141000	124000	73000	281000	193000	63400	121000	41700
20	3925.75	700000	1950000	1690000	798000	18700000	11600000	3500000	5710000	1320000
21	3929.20	118000	308000	221000	193000	871000	626000	228000	373000	184000
22										
23	ST150193A	1000000	2750000	2390000	1380000	17400000	11200000	3810000	5940000	2720000
24	ST180193A	1550000	4230000	3580000	1960000	25600000	16600000	5480000	8960000	3830000
25	ST180193B	2420000	6760000	5790000	3430000	39100000	25700000	8580000	14100000	6470000
26	ST180293A	986000	2630000	2160000	1310000	12000000	7380000	2480000	3490000	1700000
27	ST180293B	1070000	2740000	2360000	1390000	13200000	7920000	2710000	3870000	2000000
28	ST220193A	1190000	3490000	2930000	1750000	20900000	13700000	4500000	7290000	3130000
29	ST220193B	649000	1840000	1540000	856000	11400000	7560000	2490000	4040000	1730000
30	ST300193B	1060000	3000000	2620000	1440000	14800000	9830000	3140000	5150000	2370000

0	Depth	81 27f	82 27g	83 27h	84	85 Status	86 D-MIX	87 D4-C21	88 D4-C29	89 D4-C27	90 MS-
	start int	372-217	372-217	372-217			DATE	292-221	400-193	376-221	method
1	1.00	0.01	0.01	43500000		OK					MQS1A
2	1.00	870000.00	734000.00	10700000		OK					MQS1A
3	1.00	826000.00	720000.00	6250000		OK					MQS1A
4	2.00	712000.00	600000.00	3320000		OK					MQS1A
5	2823.50	746000.00	608000.00	3410000		OK					MQS1A
6	2831.00	192000.00	180000.00	1010000		OK					MQS1A
7	2832.50	3110000.00	2430000.00	14700000		OK					MQS1A
8	3273.50	649000.00	545000.00	865000		OK					MQS1A
9	3285.50	1100000.00	946000.00	1910000		OK					MQS1A
10	3289.00	1630000.00	1500000.00	1440000		OK					MQS1A
11	3332.50	1290000.00	1200000.00	1250000		OK					MQS1A
12	3333.55	492000.00	420000.00	453000		OK					MQS1A
13	3337.50	463000.00	383000.00	399000		OK					MQS1A
14	3405.00	1400000.00	1220000.00	1220000		OK					MQS1A
15	3513.00	1790000.00	1590000.00	1580000		OK					MQS1A
16	3697.00	846000.00	730000.00	708000		OK					MQS1A
17	3775.00	255000.00	223000.00	199000		OK					MQS1A
18	3882.00	28300.00	22400.00	28600		OK					MQS1A
19	3924.50	56300.00	42700.00	49800		OK					MQS1A
20	3925.75	2180000.00	2100000.00	1680000		OK					MQS1A
21	3929.20	174000.00	168000.00	244000		OK					MQS1A
22											
23	ST150193A	3240000.00	2870000.00	2510000		OK					MQS1A
24	ST180193A	4900000.00	4460000.00	3870000		OK					MQS1A
25	ST180193B	7570000.00	7000000.00	3340000		OK					MQS1A
26	ST180293A	2010000.00	1820000.00	1740000		OK					MQS1A
27	ST180293B	2160000.00	2050000.00	1800000		OK					MQS1A
28	ST220193A	4020000.00	3590000.00	2980000		OK					MQS1A
29	ST220193B	2200000.00	1950000.00	1650000		OK					MQS1A
30	ST300193B	2800000.00	2390000.00	2290000		OK					MQS1A

0 Depth start int	91 Sample number	92 %-TRI CYCL.	93 %-L.M. STERAN.	94 %-PENTA CYCLIC	95 %-C27-30 STERANES	96 GROUP SUM	97 %-C29-20S	
1	1.00	3	2	1	20	77	111298000	19
2	1.00	5	11	35	8	47	53005650	56
3	1.00	6	1	8	21	70	82708700	56
4	2.00	7	7	18	27	48	113095600	28
5	2823.50	13	3	6	50	42	93717800	24
6	2831.00	12	2	5	52	41	31403220	23
7	2832.50	11	2	4	50	44	385457100	25
8	3273.50	11	4	8	30	58	48797810	44
9	3285.50	9	4	8	33	56	86018140	41
10	3289.00	8	3	7	24	67	129653400	55
11	3332.50	8	3	6	35	57	106418600	53
12	3333.55	7	4	8	27	62	39574410	54
13	3337.50	7	4	8	27	62	35402000	54
14	3405.00	13	7	7	50	35	97071500	52
15	3513.00	14	9	8	48	36	105590400	53
16	3697.00	6	3	5	27	65	37885640	54
17	3775.00	5	4	6	38	52	20843780	55
18	3882.00	4	8	6	60	26	8976900	54
19	3924.50	5	8	5	54	34	16043810	48
20	3925.75	4	3	10	15	71	163111000	56
21	3929.20	3	9	4	52	35	30506020	48
22								
23	ST150193A	1	2	9	29	59	194910900	50
24	ST180193A	1	2	9	31	58	285020400	52
25	ST180193B	10	2	8	29	61	435481600	50
26	ST180293A	1	2	10	29	60	159031600	50
27	ST180293B	10	2	10	29	60	174098000	47
28	ST220193A	1	2	9	30	59	231369300	49
29	ST220193B	10	2	8	31	59	125153300	50
30	ST300193B	10	1	8	31	59	188695300	48

A T U R A T E S R E P O R T

n a l y s i s : B 6 5 0 7 2 2 S

Sample : 32, Injection : 1

Sample name : 6507/2-2 3929.2

P.I. 1	: 1.12
P.I. 2	: 1.00
istan/N-C17	: 0.62
ytan/N-C18	: 0.19
istan/Phytan	: 3.04
C17/N-C27	: 1.55

A T U R A T E S R E P O R T

n a l y s i s : A 6 5 0 7 2 2 A

Sample : 22, Injection : 1

Sample name : 6507/2-2 3925.75

P.I. 1	: 1.11
P.I. 2	: 1.03
istan/N-C17	: 0.89
ytan/N-C18	: 0.36
istan/Phytan	: 1.71
C17/N-C27	: 0.65

A T U R A T E S R E P O R T

a n a l y s i s : A 6 5 0 7 2 2 A

m p l e : 21, Injection : 1

m p l e n a m e : 6507/2-2 3775.0

P.I. 1	: 1.08
P.I. 2	: 1.03
istan/N-C17	: 0.42
ytan/N-C18	: 0.23
istan/Phytan	: 1.80
C17/N-C27	: 1.30

A T U R A T E S R E P O R T

n a l y s i s : A 6 5 0 7 2 2 A

s a m p l e : 19, Injection : 1

s a m p l e n a m e : 6507/2-2 3697.0

P.I. 1	: 1.07
P.I. 2	: 1.01
istan/N-C17	: 0.93
ytan/N-C18	: 0.53
istan/Phytan	: 1.68
C17/N-C27	: 0.32

A T U R A T E S R E P O R T

analysis : A 6 5 0 7 2 2 A

sample : 18, Injection : 1

sample name : 6507/2-2 3337.5

P.I. 1	: 1.09
P.I. 2	: 0.98
istan/N-C17	: 0.80
ytan/N-C18	: 0.42
istan/Phytan	: 1.50
C17/N-C27	: 0.99



Injection Report

Acquired on 12-FEB-1992 at 12:28

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
 Lims Id :  
 Comment : PIPELAX TEST  
 Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
 Sample Name : 6507/2-2 3333.55 CORE SAT 0.5X  
 Sample Id :  
 Sample Type : Sample Amount=0.00000  
 Bottle No : 2

PEAK INFORMATION

R	RT mins	RT Corr	Hght	W	Area	UMs	Area %	Peak name	Width
2	11.181	11.353	830		3474	8.63E-3	N-C12		4.2
10	14.296	14.516	20460		98224	0.24	N-C13		4.2
26	17.512	17.781	103306		431080	1.07	N-C14		3.8
37	19.547	19.805	69119		304860	0.76	I-C16		4.0
44	20.693	20.946	211892		917737	2.28	N-C15		4.2
64	23.765	24.001	260849		1265073	3.14	N-C16		4.8
70	25.264	25.476	112181		670229	1.67	I-C18		5.6
76	26.704	26.893	281284		1540161	3.83	N-C17		5.1
77	26.979	27.163	177662		1011763	2.51	PRISTANE		5.4
88	29.507	29.650	286167		1521128	3.78	N-C18		5.1
89	29.824	29.963	112973		696158	1.73	PHYTAN		5.6
101	32.176	32.277	317454		2125976	5.28	N-C19		5.6
103	34.723	34.783	305435		2099712	5.22	N-C20		5.6
104	37.160	37.231	292343		1882784	4.68	N-C21		5.8
107	39.488	39.569	287528		1816381	4.51	N-C22		5.6
108	41.733	41.824	263641		2014000	5.00	N-C23		6.2
109	43.885	43.986	266640		1678985	4.17	N-C24		5.8
110	45.947	46.057	242092		1756065	4.36	N-C25		6.1
111	47.933	48.052	226871		1377970	3.42	N-C26		5.8
113	49.851	49.978	198682		1201783	2.99	N-C27		5.4
114	51.685	51.821	155140		968658	2.41	N-C28		5.6
115	53.461	53.605	128690		824945	2.05	N-C29		5.1
118	55.181	55.332	93223		459290	1.14	N-C30		4.5
120	56.845	57.004	63709		441434	1.10	N-C31		4.5
121	58.507	58.672	37414		211533	0.53	N-C32		4.8
124	60.323	60.486	28448		229996	0.57	N-C33		6.4

Totals			
Unknowns	1859391	12696719	31.55
Quantified	4544034	27549404	68.45
Grand Total	6403425	40246124	100.00

Sample name : 6507/2-2 3333.55 CORE SAT 0.5X

C.P.I. 1 : 1.17  
 C.P.I. 2 : 1.02  
 Pristan/N-C17 : 0.66  
 Phytan/N-C18 : 0.46  
 Pristan/Phytan : 1.45  
 N-C17/N-C27 : 1.28

A T U R A T E S R E P O R T

n a l y s i s : A 6 5 0 7 2 2 A

s a m p l e : 17, Injection : 1

s a m p l e n a m e : 6507/2-2 3332.5

: P.I. 1	: 1.09
P.I. 2	: 1.02
· istan/N-C17	: 0.91
ytan/N-C18	: 0.51
istan/Phytan	: 1.31
C17/N-C27	: 0.91

Injection Report

Acquired on 12-FEB-1992 at 10:58

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
 Lims Id :  
 Comment : PIPELAX TEST  
 Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
 Sample Name : 6507/2-2 3289.00 CORE SAT  
 Sample Id :  
 Sample Type : Sample Amount=0.00000  
 Bottle No : 2

PEAK INFORMATION

Pe	T mins	RT Corr	Hght uV	Area uVs	Area %	Peak name	Width
3	11.179	11.328	1516	8967	0.01	N-C12	5.0
13	14.301	14.493	49115	252401	0.32	N-C13	4.5
27	17.547	17.781	228208	1165045	1.50	N-C14	4.8
34	19.576	19.786	144880	869994	1.12	I-C16	5.3
37	20.757	20.953	365343	2372208	3.05	N-C15	6.4
45	23.843	24.001	453149	3280219	4.21	N-C16	6.9
49	25.325	25.456	225404	617517	0.79	I-C18	2.9A
53	26.797	26.901	508216	4164195	5.35	N-C17	7.5
54	27.061	27.160	359345	2496868	3.21	PRISTANE	6.7
59	29.613	29.664	513218	4053137	5.22	N-C18	7.7
60	29.915	29.960	260859	2091212	2.68	HEPTANE	6.7
63	32.288	32.289	487675	4873569	6.26	N-C19	8.2
65	34.829	34.783	485012	4037504	5.18	N-C20	7.8
67	37.259	37.231	440640	3569836	4.58	N-C21	7.8
70	39.589	39.580	406780	3409043	4.38	N-C22	7.7
71	41.816	41.825	396946	3321937	4.26	N-C23	7.5
73	43.957	43.983	362030	2790514	3.58	N-C24	7.5
74	46.016	46.058	339822	2640414	3.39	N-C25	6.9
75	47.995	48.052	294869	2059927	2.64	N-C26	6.6
77	49.891	49.963	263318	1781460	2.29	N-C27	5.8
78	51.717	51.804	200050	1413391	1.81	N-C28	5.4
79	53.488	53.589	157827	1019712	1.31	N-C29	5.4
82	55.195	55.309	109788	571299	0.73	N-C30	4.6
83	56.856	56.983	75113	456640	0.59	N-C31	4.6
85	58.509	58.650	45027	271445	0.35	N-C32	4.6
87	60.320	60.475	31731	267322	0.34	N-C33	6.4

Totals				
Unknowns	3283870	24024474	30.84	
Quantified	7205883	53865776	69.16	
Grand Total	10489753	77890248	100.00	

Sample name : 6507/2-2 3289.00 CORE SAT

C.P.I. 1 : 1.11  
 C.P.I. 2 : 1.03  
 Pristan/N-C17 : 0.60  
 Phytan/N-C18 : 0.51  
 Pristan/Phytan : 1.19  
 N-C17/N-C27 : 2.34

A T U R A T E S R E P O R T

n a l y s i s : C 6 5 0 7 2 2 5

l e : 12, Injection : 1

mp l e n a m e : 6507/2-2 3285.5

P.I. 1	: 1.10
P.I. 2	: 1.03
istan/N-C17	: 0.64
ytan/N-C18	: 0.37
istan/Phytan	: 1.65
C17/N-C27	: 1.92

A T U R A T E S   R E P O R T

n a l y s i s   :   C 6 5 0 7 2 2 S

Sample : 11, Injection : 1

Sample name : 6507/2-2 3273.50

P.I. 1	: 1.12
P.I. 2	: 1.00
Stigmasterol/N-C17	: 0.74
Stigmasterol/N-C18	: 0.44
Stigmasterol/Phytan	: 1.67
C17/N-C27	: 1.43

A T U R A T E S R E P O R T

n a l y s i s : C 6 5 0 7 2 2 S

'\_le : 9, Injection : 1

mple name : 6507/2-2 2832.50

P.I. 1 : 1.12

P.I. 2 : 1.00

istan/N-C17 : 0.73

ytan/N-C18 : 0.31

istan/Phytan : 1.74

C17/N-C27 : 1.15

A T U R A T E S R E P O R T

n a l y s i s : A 6 5 0 7 2 2 A

Sample : 15, Injection : 1

Sample name : 6507/2-2 2831.0

P.I. 1	: 1.15
P.I. 2	: 1.07
istan/N-C17	: 0.78
ytan/N-C18	: 0.32
istan/Phytan	: 1.50
C17/N-C27	: 0.86

A T U R A T E S R E P O R T

n a l y s i s : C 6 5 0 7 2 2 S

Sample : 8, Injection : 1

Sample name : 6507/2-2 2823.50

P.I. 1	: 1.15
P.I. 2	: 1.02
istan/N-C17	: 0.75
ytan/N-C18	: 0.30
istan/Phytan	: 2.17
C17/N-C27	: 2.46



A T U R A T E S R E P O R T

a n a l y s i s : B 6 5 0 7 2 2 S

.\_le : 33, Injection : 1

mple name : 6507/2-2 DST-1

. P.I. 1	: 1.08
: P.I. 2	: 0.96
' istan/N-C17	: 0.59
ytan/N-C18	: 0.37
istan/Phytan	: 1.63
C17/N-C27	: 4.13

Injection Report

Acquired on 12-FEB-1992 at 18:30

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
 Lims Id :  
 Comment : PIPELAX TEST  
 Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
 Sample Name : PIPELAX LIQ.SAT  
 Sample Id :  
 Sample Type : Sample Amount=0.00000  
 Bottle No : 6

PEAK INFORMATION

Pa	RT mins	RT Corr	Hght uV	Area uVs	Area %	Peak name	Width
13	11.216	11.309	86890	664620	1.09	N-C12	5.8
22	14.376	14.496	237860	1574982	2.58	N-C13	5.4
31	17.635	17.781	377532	2835780	4.65	N-C14	6.4
35	19.664	19.791	268149	1827867	3.00	I-C16	5.9
37	20.845	20.961	491209	3944860	6.47	N-C15	7.5
40	23.915	24.001	539142	4249740	6.97	N-C16	7.4
41	25.355	25.430	303427	2521532	4.13	I-C18	7.5
44	26.843	26.907	515196	4055706	6.65	N-C17	7.4
45	27.115	27.177	417461	3146755	5.16	PRISTANE	6.9
47	29.624	29.667	445793	3339424	5.47	N-C18	7.2
48	29.957	29.998	299446	2380222	3.90	PHYTAN	7.2
50	32.269	32.292	396497	2862682	4.69	N-C19	6.4
52	34.779	34.783	328216	2143254	3.51	N-C20	5.9
53	37.173	37.214	253352	1526252	2.50	N-C21	5.1
56	39.475	39.551	185856	979020	1.60	N-C22	5.0
57	41.685	41.795	138151	668449	1.10	N-C23	4.2
60	43.813	43.956	107687	476491	0.78	N-C24	4.2
61	45.864	46.038	78584	344223	0.56	N-C25	4.0
62	47.848	48.052	59839	248662	0.41	N-C26	3.8
73	49.752	49.985	40140	153957	0.25	N-C27	3.5
80	51.603	51.864	24844	97178	0.16	N-C28	3.5
90	53.395	53.684	16908	59006	0.10	N-C29	3.4
99	55.125	55.441	9394	39368	0.06	N-C30	3.8
110	56.811	57.152	5311	20023	0.03	N-C31	3.7
120	58.480	58.847	4299	30541	0.05	N-C32	4.5A
127	60.301	60.696	1450	7439	0.01	N-C33	4.5

Totals				
Unknowns	2522527	20817278	34.12	
Quantified	5632632	40198032	65.88	
Grand Total	8155159	61015312	100.00	

Sample : 7, Injection : 1

Sample name : PIPELAX LIQ.SAT

C.P.I. 1 : 1.03  
 C.P.I. 2 : 0.89  
 Pristan/N-C17 : 0.78  
 Phytan/N-C18 : 0.71  
 Pristan/Phytan : 1.32  
 N-C17/N-C27 : 26.34

Injection Report

Acquired on 12-FEB-1992 at 17:00

NORSK HYDRO RESEARCH CENTRE

Analyst Name : ARNE 6507/2-2  
 Lims Id :  
 Comment : PIPELAX TEST  
 Method Title : GC-MSD SATURATED HYDROCARBONS 4 DEG/MIN.  
 Sample Name : PIPELAX POWDER SAT  
 Sample Id :  
 Sample Type : Sample Amount=0.00000  
 Bottle No : 5

PEAK INFORMATION

Ret.	RT mins	RT Corr	Hght	UV	Area	UMs	Area %	Peak name	Width
6	13.845	14.240	5285		26511		0.23	N-C13	4.5
19	17.288	17.781	24897		107235		0.94	N-C14	4.5
30	19.493	19.930	5439		33490		0.29	I-C16	6.2
38	20.629	21.037	32961		156219		1.38	N-C15	4.5
57	23.672	24.001	52611		217014		1.91	N-C16	3.8
66	25.472	25.779	31737		177807		1.57	I-C18	5.8A
71	26.621	26.915	141240		693719		6.11	N-C17	3.8
72	26.869	27.160	25244		188387		1.66	ERISTANE	8.2
85	29.397	29.657	83634		320448		2.82	N-C18	3.5
86	29.741	29.997	19206		107969		0.95	HEPTANE	5.4
99	32.048	32.275	66950		282864		2.49	N-C19	3.4
115	34.587	34.783	50417		184011		1.62	N-C20	3.5
130	37.019	37.224	45156		146789		1.29	N-C21	3.4
145	39.355	39.568	44678		148353		1.31	N-C22	3.4
162	41.595	41.816	41800		144667		1.27	N-C23	3.4
175	43.747	43.976	41097		153099		1.35	N-C24	3.5
183	45.819	46.055	36251		143812		1.27	N-C25	3.7
197	47.808	48.052	33159		119349		1.05	N-C26	3.5
209	49.728	49.979	28915		100905		0.89	N-C27	3.5
216	51.579	51.836	22918		86147		0.76	N-C28	3.5
227	53.381	53.646	20095		77007		0.68	N-C29	3.8
238	55.115	55.385	14130		59027		0.52	N-C30	4.0
246	56.805	57.082	12704		51245		0.45	N-C31	3.5
254	58.472	58.755	9329		37737		0.33	N-C32	3.8
268	60.285	60.575	7815		38403		0.34	N-C33	4.6

Totals			
Unknowns	1338063	7557739	66.53
Quantified	897668	3802214	33.47
Grand Total	2235731	11359953	100.00

Sample name : PIPELAX POWDER SAT

C.P.I. 1 : 1.06  
 C.P.I. 2 : 0.98  
 Pristan/N-C17 : 0.27  
 Phytan/N-C18 : 0.34  
 Pristan/Phytan : 1.74  
 N-C17/N-C27 : 6.87