

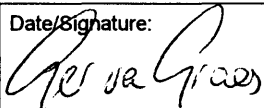
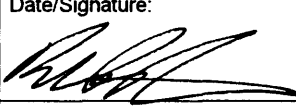

Anchor Drilling Fluids											Anchor Drilling Fluids	
MUD VOLUME DISTRIBUTION SUMMARY												
WELL: 25/10-6S											RIG: DEEPSEA BERGEN	
Hole size	Hole From-to	Mud Built	Volume Received	Volume Backloaded	Dumped to sea	Transferred to slop	Lost to Formation	Lost w/ cuttings	Lost on Surface Equipment	Mud left between csg/csg plus left in hole	Mud transf. to next Section	Mud type used for interval
<i>inch</i>	<i>m</i>	<i>m3</i>	<i>m3</i>	<i>m3</i>	<i>m3</i>	<i>m3</i>	<i>m3</i>		<i>m3</i>	<i>m3</i>	<i>m3</i>	
36	140 - 205	185	170		83						272	BENTONITE/CMC EHV
26	205 - 1039	612			740						144	BENTONITE/CMC EHV
17 1/2	1039 - 2217	812			300				137	106	413	ANCO 2000
12 1/4	2217 - 2377	115			510		4		14		0	ANCO 2000
12 1/4	2377 - 4049	504	324			55	150	128			495	ANCO VERT
8 1/2	4049 - 4706	210	68	264	9	57	19	17			407	ANCO VERT
P & A	4706 - 0	402		408	17	31	11			168	174	BENTONITE/LIGHTIN
Total		2840	562	672	1659	143	184	145	151	274		
COMMENTS: 36" SECTION: Returns to seabed. Volume received was Anco 2000 mud from well Siri in Denmark.												
26" SECTION: Returns to seabed.												
17 1/2" SECTION: Anco 2000 with KCl/polymer/glycol. Left 106 m3 behind casing.												
12 1/4" SECTION: Drilled first part with Anco 2000 mud then displaced well to Anco Vert mud system.												
8 1/2" SECTION: Cuttings and slop was sent for destruction onshore. By accident was 9 m3												
Anco Vert lost to sea, no other losses to sea.												
P & A section: 174 m3 Bentonite mud was transferred to next well, Yme Beta.												
Total mud losses to sea: 1810 m3												

Title: GEOCHEMICAL EVALUATION OF WELL 25/10-6S		
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1 INTRODUCTION

This report presents the results of a standard geochemical evaluation of well 25/10-6S, Norwegian North Sea (Figure 1).

The well was drilled using Anco 2000 glycol-containing drilling mud in the upper part (1039-2377 mRKB) and Ancovert oil-based drilling mud in the lower part of the well (2377-4706 mRKB - TD).

Although it was anticipated that the use of oil-based mud in the reservoir section might cause significant problems in the organic geochemical analyses, it was decided to carry out a limited standard geochemical evaluation of the well with the following aims:

1. Characterize the oil present in the reservoir and any oil shows found in other intervals with regard to source rock and thermal maturity level. This information contributes to the understanding of the regional oil migration pattern. The oil-based mud is expected to interfere with this, but it was hoped that the tight reservoir would provide a reasonable protection against mud invasion.
2. Perform a source rock analysis

The oil-based mud is not expected to interfere significantly with the determination of the remaining source potential, but it will probably affect the detailed characterisation of the source rock extracts.

3. Determine the thermal maturity profile for this well. This is mainly based on vitrinite reflectance analyses, which are expected to be little affected by the drilling mud.

Geochemical analyses were performed on 44 cuttings samples, 12 core samples and 1 mud sample according to the following analytical program.

ANALYSES	NUMBER OF SAMPLES			
	cuttings	core	mud	total
TOC	11(+3)*			14
Rock Eval	11(+3)*	12		26
Vitrinite reflectance	33			33
Kerogen description	3			3
Pyrolysis-GC	4			4
Solvent extraction/asphaltene precipitation	4	5	1	10
Iatroscan analysis	4	5	1	10
MPLC separation	4	5	1	10
GC saturates and aromatics	4	5	1	10
GCMS saturates and aromatics	4	5	1	10
$\delta^{13}\text{C}$ of extracts and fractions	4	5	1	10
$\delta^{13}\text{C}$ of kerogen	3			3

* number in parantheses indicates samples that were reanalysed after solvent extraction

The analytical work was performed by Geolab Nor and IFE (vitrinite reflectance analysis) in accordance with the guidelines given in "The Norwegian Industry Guide to Organic Geochemical Analyses (1993)". All analytical results can be found in Geolab Nor report "Geochemical Data Report NOCS 25/10-6S" (Appendix).

Casing points:	30"	200 mRKB
	20"	1024 mRKB
	13 3/8"	2210 mRKB
	9 5/8"	4037 mRKB

Cores:	#1	4339-4344 mRKB
	#2	4344-4350 mRKB
	#3	4397-4402.5 mRKB

Drilling mud:	Anco 2000, including 3-5% glycol	1039-2377 mRKB
	Ancovert Oil Based Mud	2377-4706 mRKB (TD)

In several parts of the well a mud motor was used, which may give rise to "charring" of the cuttings.

Note: core and cuttings samples are given in this report as Driller's depth while sidewall samples are given as Loggers depth.

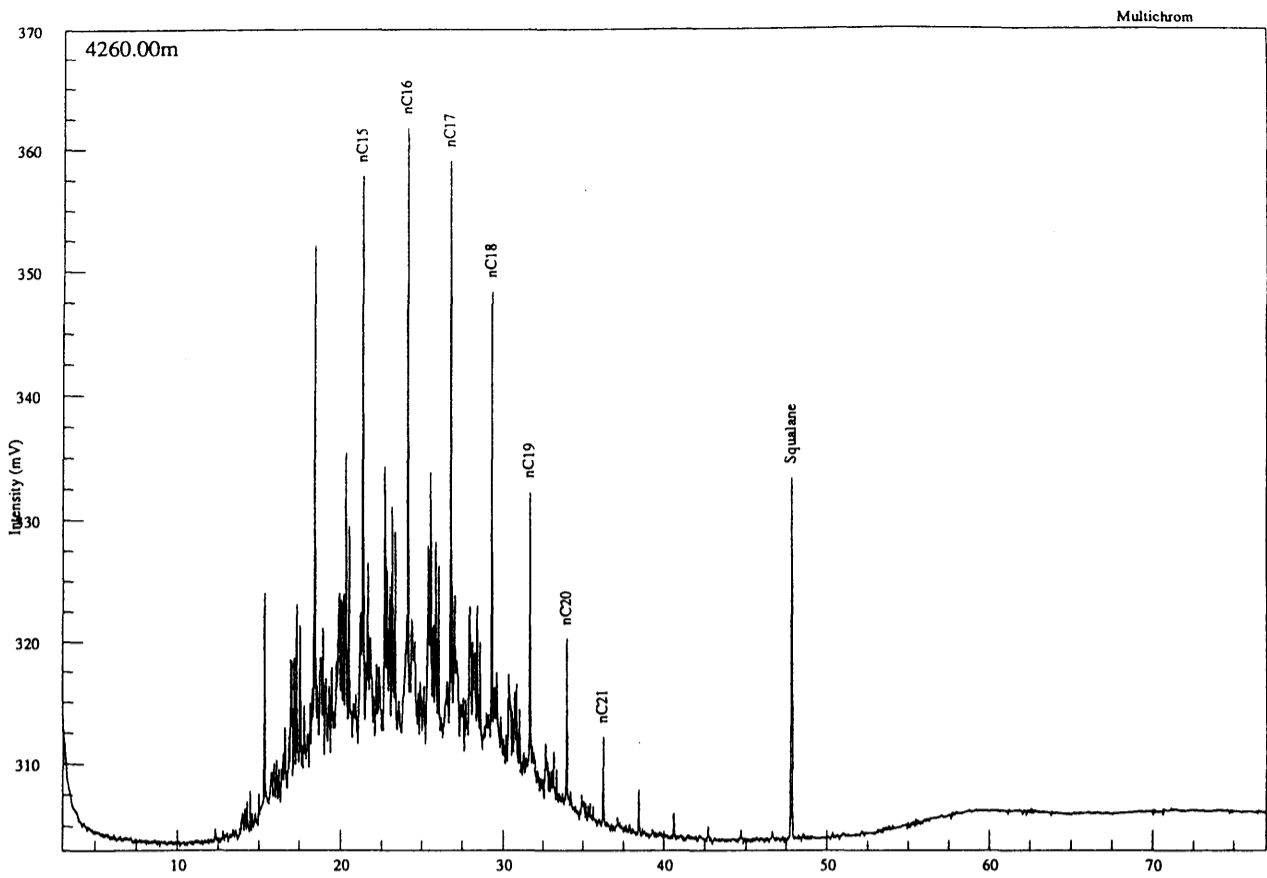


Figure 5. Gas chromatograms of saturated hydrocarbon fractions from sample at 4260 mRKB (top) and drilling mud extract (bottom).

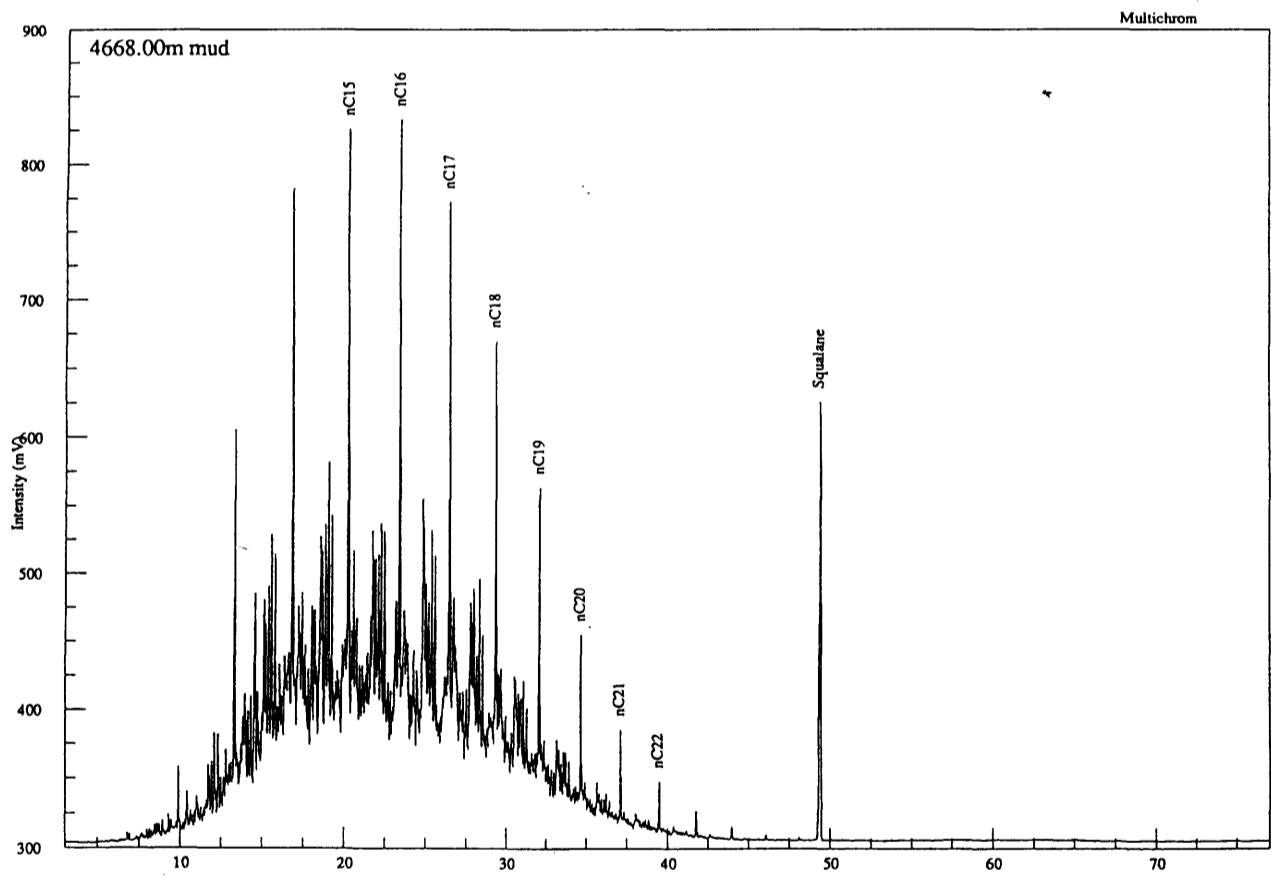


Table 1. Selected geochemical parameters for samples from well 25/10-6S.

Depth (mRKB)	Sample nr	Sample type	PYGC GOI	<----- Carbon isotope ratios (in per mil vs. PDB standard) ----->						MPI1
				Whole EOM	Saturates	Aromatics	Polars	Asphaltenes	Kerogen	
4260	O30/0014-1	claystone	0.35	-27.39	-27.01	-27.67	-27.78	-27.91	-28.26	
4314	O30/0019-1	claystone	0.31	-27.75	-26.87	-26.11	-28.06	-26.31	-25.49	
4335	O30/0022-1	claystone	0.33	-27.74	-26.85	-26.31	-28.13	-25.97	-24.76	
4339.5	O30/0001-0	sst		-27.64	-27.21	-24.47	-25.34	-25.07		
4343	O30/0004-0	sst		-27.6	-26.5	-20.45	-26.3	-25.96		1.39
4348.86	O30/0009-0	sst		-27.78	-27.45	-24.71	-26.93	-26.57		0.98
4398.63	O30/0011-0	sst		-26.61	-27.04	-20.55	-23.55	-24.87		0.78
4399.4	O30/0012-0	sst		-26.47	-26.25	n.d.	-24.91	-24.87		0.96
4701	O30/0023-0	coal	0.96	-27.2	-26.87	-24.91	-27.18	-25.8		1.07
4668	O31/0001-0	mud		n.d.	-27.29	-27.04	-27.14	-26.79		

Depth (mRKB)	Sample nr	Sample type	<----- Biomarker parameters from GCMS of saturates ----->								
			20S	BB	TSTM	30D	C27BB	C28BB	C29BB	DIAST	TRICY
4260	O30/0014-1	claystone	0.48	0.56	1.62	0.17	36	32	32	0.20	0.73
4314	O30/0019-1	claystone		0.70		0.00	34	28	38	0.14	2.37
4335	O30/0022-1	claystone		0.68	1.21	0.41	38	33	29	0.14	1.50
4339.5	O30/0001-0	sst	0.45	0.62	1.20	0.11	48	28	24	0.43	2.67
4343	O30/0004-0	sst	0.53	0.60		0.26	41	28	30	0.76	1.15
4348.86	O30/0009-0	sst	0.48	0.56	1.77	0.14	43	29	28	0.68	2.08
4398.63	O30/0011-0	sst		0.72		0.17	48	25	27	0.62	1.67
4399.4	O30/0012-0	sst		0.72	2.92	0.23	38	35	27	0.70	0.40
4701	O30/0023-0	coal		0.61	1.51	0.49	43	30	27	0.14	4.58
4668	O31/0001-0	mud		0.70		0.00	40	35	26	0.12	5.17

Derivation of biomarker ratios reported in Table 1

<u>Ratio</u>	<u>Derivation</u>	<u>m/z</u>
Triterpanes		
22S	$32\alpha\beta S / (32\alpha\beta S + 32\alpha\beta R)$	191
TSTM	$27Ts / 27Tm$	191
TTX	$30d / 29\beta\alpha$	191
30D	$30d / 30\alpha\beta$	191
29H_30H	$29\alpha\beta / 30\alpha\beta$	191
30AB-HOP	$30\alpha\beta / (30\alpha\beta + 30\beta\alpha)$	191
C28AB	$28\alpha\beta / 30\alpha\beta$	191
TRICY	$(23/3) / 30\alpha\beta$	191
TETRACY	$(24/4) / 30\alpha\beta$	191
35H_34H	$(35\alpha\beta R + 35\alpha\beta S) / (34\alpha\beta R + 34\alpha\beta S)$	191
DEMET	$25nor30\alpha\beta / 30\alpha\beta$	191
OLEANAN	$30O / 30\alpha\beta$	191
GAMMA	$30G / 30\alpha\beta$	191
PPMH'	$ppm \ 27Ts + 27Tm + 29\alpha\beta + 29\beta\alpha + 30\alpha\beta + 30\beta\alpha + 31\alpha\beta S + 31\alpha\beta R + 32\alpha\beta S + 32\alpha\beta R + 33\alpha\beta S + 33\alpha\beta R + 34\alpha\beta S + 34\alpha\beta R + 35\alpha\beta S + 35\alpha\beta R$	191
Steranes		
20S	$29\alpha\alpha S / (29\alpha\alpha R + 29\alpha\alpha S)$	217
BB	$(29\beta\beta R + 29\beta\beta S) / (29\beta\beta R + 29\beta\beta S + 29\alpha\alpha R + 29\alpha\alpha S)$	217
C27BB	$100 * (27\beta\beta R + 27\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
C28BB	$100 * (28\beta\beta R + 28\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
C29BB	$100 * (29\beta\beta R + 29\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
C30BB	$(30\beta\beta R + 30\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
DIAST	$(27d\beta R + 27d\beta S) / (27\alpha\alpha R + 27\alpha\alpha S)$ *	217
PPMS'	$ppm \ 27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S$	218
HOPST	$Intensities(27Ts + 27Tm + 29\alpha\beta + 29\beta\alpha + 30\alpha\beta + 30\beta\alpha + 31\alpha\beta S + 31\alpha\beta R + 32\alpha\beta S + 32\alpha\beta R + 33\alpha\beta S + 33\alpha\beta R + 34\alpha\beta S + 34\alpha\beta R + 35\alpha\beta S + 35\alpha\beta R) / Intensities(27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	

* ppm calculated from comparison with m/z 219 intensity for D2-cholestane

Biomarker codes used in derivation of ratios

<u>Compound name</u>	<u>Old code</u>	<u>NEW CODE</u>
Triterpanes		
C ₂₃ H ₄₂ tricyclic terpane	P	23/3
C ₂₄ H ₄₄ tricyclic terpane	Q	24/3
C ₂₅ H ₄₆ tricyclic terpane ¹	R	25/3
C ₂₄ H ₄₂ tetracyclic terpane	S	24/4
C ₂₆ H ₄₈ tricyclic terpane ²	T	26/3
18 α (H)-22,29,30-trisnorneohopane	27A	27Ts
17 α (H)-22,29,30-trisnorhopane	27B	27Tm
17 α (H), 21 β (H)-25,28,30-trisnorhopane		25nor28 $\alpha\beta$
17 α (H), 21 β (H)-28,30-bisnorhopane	28A	28 $\alpha\beta$
17 α (H), 21 β (H)-25-norhopane		25nor30 $\alpha\beta$ ³
17 α (H), 21 β (H)-30-norhopane	C29A	29 $\alpha\beta$
18 α (H)-30-norneohopane		29Ts
15 α -methyl-17 α (H)-27-norhopane (TiX)	X	30D
17 β (H), 21 α (H)-30-norhopane (normoretane)	C29B	29 $\beta\alpha$
18 α (H)-oleanane		30O
17 α (H), 21 β (H)-hopane	C30A	30 $\alpha\beta$
17 β (H), 21 α (H)-hopane (moretane)	C30B	30 $\beta\alpha$
Gammacerane		
17 α (H), 21 β (H), 22(S)-homohopane	C31S	31 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-homohopane	C31R	31 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-bishomohopane	C32S	32 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-bishomohopane	C32R	32 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-trishomohopane	C33S	33 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-trishomohopane	C33R	33 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-tetrakishomohopane	C34S	34 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-tetrakishomohopane	C34R	34 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-pentakishomohopane	C35S	35 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-pentakishomohopane	C35R	35 $\alpha\beta$ R

1 may be broad peak or doublet 2 may be doublet 3 listed in Statoil spreadsheets as "nor30" for convenience

Steranes

13 β (H), 17 α (H), 20(S)-cholestane (diasterane)	27a	27d β S
13 β (H), 17 α (H), 20(R)-cholestane (diasterane)	27b	27d β R
13 α (H), 17 β (H), 20(R)-cholestane (diasterane)	27c	27d α R
13 α (H), 17 β (H), 20(S)-cholestane (diasterane)	27d	27d α S
5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	27e	27 $\alpha\alpha$ S
5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	27f	27 $\beta\beta$ R
5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	27g	27 $\beta\beta$ S
5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	27h	27 $\alpha\alpha$ R
24-methyl-13 β (H), 17 α (H), 20(S)-cholestane (diasterane)	28a	28d β S
24-methyl-13 β (H), 17 α (H), 20(R)-cholestane (diasterane)	28b	28d β R
24-methyl-13 α (H), 17 β (H), 20(R)-cholestane (diasterane)	28c	28d α R
24-methyl-13 α (H), 17 β (H), 20(S)-cholestane (diasterane)	28d	28d α S
24-methyl-5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	28e	28 $\alpha\alpha$ S
24-methyl-5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	28f	28 $\beta\beta$ R
24-methyl-5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	28g	28 $\beta\beta$ S
24-methyl-5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	28h	28 $\alpha\alpha$ R
24-ethyl-13 β (H), 17 α (H), 20(S)-cholestane (diasterane)	29a	29d β S
24-ethyl-13 β (H), 17 α (H), 20(R)-cholestane (diasterane)	29b	29d β R
24-ethyl-13 α (H), 17 β (H), 20(R)-cholestane (diasterane)	29c	29d α R
24-ethyl-13 α (H), 17 β (H), 20(S)-cholestane (diasterane)	29d	29d α S
24-ethyl-5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	29e	29 $\alpha\alpha$ S
24-ethyl-5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	29f	29 $\beta\beta$ R
24-ethyl-5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	29g	29 $\beta\beta$ S
24-ethyl-5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	29h	29 $\alpha\alpha$ R
24-propyl-5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	30e	30 $\alpha\alpha$ S
24-propyl-5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	30f	30 $\beta\beta$ R
24-propyl-5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	30g	30 $\beta\beta$ S
24-propyl-5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	30h	30 $\alpha\alpha$ R
4-methyl-14 α (H), 17 α (H)-cholestanes		M28 $\alpha\alpha$
4,24-dimethyl-14 α (H), 17 α (H)-cholestanes		M29 $\alpha\alpha$
4-methyl-24-ethyl-14 α (H), 17 α (H)-cholestanes		M30 $\alpha\alpha$
4,23,24-trimethyl-14 α (H), 17 α (H)-cholestanes (dinosteranes)		M30D

CONTENTS

PART 1 - ROCK SAMPLES

TABLES

1. Analytical Program
3. Lithology Description
4. Vitrinite Reflectance (IFE)
- 5a-b. TOC and Rock-Eval
6. Pyrolysis GC
7. Visual Kerogen Description and SCI
- 8a-d. Bulk Solvent Extract Composition (MPLC)
- 8e-f. Bulk Solvent Extract Composition (Iatroscan)
- 9a-c. Saturated and Aromatic Hydrocarbon GC
- 10a-b. Carbon Isotope Data for C₁₅+ Fractions and Kerogen Concentrates
- 11a-i. Gas Chromatography - Mass Spectrometry, Saturated Hydrocarbons
- 12a-e. Gas Chromatography - Mass Spectrometry, Aromatic Hydrocarbons

APPENDICES

APPENDIX 1:

- I. Pyrograms (after pre-extraction of samples)
- II. Saturated Hydrocarbon Gas Chromatograms
- III. Aromatic Hydrocarbons Gas Chromatograms (FID and FPD)

APPENDIX 2:

- I. GC-MS Saturated Hydrocarbon Fragmentograms
- II. GC-MS Aromatic Hydrocarbon Fragmentograms

APPENDIX 3: IFE REPORT:

- I. Vitrinite Reflectance

TABLE 1 ANALYTICAL PROGRAM

Sample Depth (metres) and Type	Fractions	HS & Occ Gas	Leco TOC	RockEval	Therm Ext GC	Pyrolysis GC	Extraction	MPLC & Deasp	Iatroscan	EOM GC	Sat GC Quant.	Aro GC	Sat GCMS Quant.	Aro GCMS	Bulk C Isot	Vis Kerogen	Vit Reflect
1050.00cS	IFE not received																
1170.00cS	IFE not received																
1290.00cS	IFE																x
1400.00cS	IFE																x
1510.00cS	IFE																x
1610.00cS	IFE																x
1730.00cS	IFE																x
1850.00cS	IFE																x
1960.00cS	IFE																x
2060.00cS	IFE																x
2160.00cS	IFE																x
2244.00cS	IFE																x
2301.00cS	IFE																x
2421.00cS	IFE																x
2517.00cS	IFE																x
2625.00cS	IFE																x
2760.00cS	IFE																x
2860.00cS	IFE																x
2970.00cS	IFE																x
3080.00cS	IFE																x
3130.00cS	IFE																x
3530.00cS	IFE																x
3370.00cS	IFE																x
3780.00cS	IFE																x
3880.00cS	IFE																x
3980.00cS	IFE																x
4092.00cS	IFE																x
4176.00cS	IFE																x
4245.00cS	IFE																x
4248.00cS	O30/0013-0		x	x													
4260.00cS	O30/0014-0		x	x		x	x	x	x		x	x	x	x	x	x	
4272.00cS	O30/0015-0		x	x													
4284.00cS	O30/0016-0		x	x													
4296.00cS	O30/0017-0		x	x													
4299.00cS	IFE																x

TABLE 1 ANALYTICAL PROGRAM

Sample Depth (metres) and Type	Fractions	HS & Occ Gas	Leco TOC	RockEval	Therm Ext GC	Pyrolysis GC	Extraction	MPLC & Deasp	Infrared	EOM GC	Sat GC Quant.	Aro GC	Sat GCMS Quant.	Aro GCMS	Bulk C Isot	Vis Kerogen	Vit Reflect
4305.00cS	O30/0018-0		x	x													
4314.00cS	O30/0019-0		x	x		x	x	x	x		x	x	x	x	x	x	
4320.00cS	O30/0020-0		x	x													
4329.00cS	O30/0021-0		x	x													
4332.00cS	IFE																x
4335.00cS	O30/0022-0		x	x		x	x	x	x		x	x	x	x	x	x	
4339.50pR	O30/0001-0			x		x	x	x			x	x	x	x	x		
4340.59pR	O30/0002-0			x													
4341.87pR	O30/0003-0			x													
4343.00pR	O30/0004-0			x		x	x	x			x	x	x	x	x		
4344.50pR	O30/0005-0			x													
4345.63pR	O30/0006-0			x													
4346.70pR	O30/0007-0			x													
4347.90pR	O30/0008-0			x													
4348.88pR	O30/0009-0			x		x	x	x			x	x	x	x	x		
4397.16pR	O30/0010-0			x													
4398.63pR	O30/0011-0			x		x	x	x			x	x	x	x	x		
4399.40pR	O30/0012-0			x		x	x	x			x	x	x	x	x		
4416.00cS	IFE																x
4512.00cS	IFE																x
4593.00cS	IFE																x
4692.00cS	IFE																x
4701.00cR	O30/0023-0			x		x	x	x	x		x	x	x	x	x		
4704.00cR	O30/0024-0																
4706.00cR	not received																
slam 4668	O31/0001-0					x	x	x			x	x	x	x	x		
Totals / Sign.																	
NOTES																	
CUTTINGS FROM 1039-2377M			Anco 2000			with 3-5% glycol											
CUTTINGS FROM 2377-4706M			Ancovert oil based mud														
Saturated GC	Quantitative																
Saturated GCMS	Quantitative																

Table 3: Lithology description for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1290.00			100	Sh/Clst		0027 0027-1L
1400.00			100	Sh/Clst		0028 0028-1L
1510.00			100	Sh/Clst		0029 0029-1L
1610.00			100	Sh/Clst		0030 0030-1L
1730.00			100	Sh/Clst		0031 0031-1L
1850.00			100	Sh/Clst		0032 0032-1L
1960.00			100	Sh/Clst		0033 0033-1L
2060.00			100	Sh/Clst		0034 0034-1L
2160.00			100	Sh/Clst		0035 0035-1L

Table 3: Lithology description for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2244.00			100	Sh/Clst		0036 0036-1L
2301.00			100	Sh/Clst		0037 0037-1L
2421.00			100	Sltst		0038 0038-1L
2517.00			100	Sltst		0039 0039-1L
2625.00			100	Sltst		0040 0040-1L
2760.00			100	Sltst		0041 0041-1L
2860.00			100	Sltst		0042 0042-1L
2970.00			100	Sltst		0043 0043-1L
3080.00			100	Sltst		0044 0044-1L

Table 3: Lithology description for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3130.00						0045
			100	Sltst		0045-1L
3530.00						0046
			100	Sltst		0046-1L
3670.00						0047
			100	Sltst		0047-1L
3780.00						0048
			100	Sh/Clst		0048-1L
3880.00						0049
			100	Sh/Clst		0049-1L
3980.00						0050
			100	Sh/Clst		0050-1L
4092.00						0051
			100	Sh/Clst		0051-1L
4176.00						0052
			100	Sh/Clst		0052-1L
4245.00						0053
			100	Sh/Clst		0053-1L

Table 3: Lithology description for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4248.00						0013
	6.59	90	Sh/Clst:	gy blk to brn blk, carb, st, trbofgs		0013-1L
		10	Ca	: pl gy to w, st		0013-2L
			tr Cont	: prp		0013-3L
4260.00						0014
	8.16	95	Sh/Clst:	gy blk to brn blk, carb, st, trbofgs		0014-1L
		5	Ca	: pl gy to w, st		0014-2L
			tr Cont	: prp		0014-3L
4272.00						0015
	6.63	100	Sh/Clst:	gy blk to brn blk, carb, st, trbofgs		0015-1L
			tr Ca	: pl gy to w, st		0015-2L
			tr Cont	: prp		0015-3L
4284.00						0016
	6.78	100	Sh/Clst:	gy blk to brn blk, carb, slt, st, trbofgs		0016-1L
			tr Ca	: pl gy to w, st		0016-2L
			tr Cont	: prp		0016-3L
4296.00						0017
	5.95	100	Sh/Clst:	dsk y brn to brn blk, carb, slt, st, trbofgs		0017-1L
			tr Ca	: pl gy to w, st		0017-2L
			tr Cont	: prp		0017-3L
4299.00						0054
		100	Sh/Clst			0054-1L

Table 3: Lithology description for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4305.00						0018
	5.57	100	Sh/Clst:	dsk y brn to brn blk, carb, slt, st, trbofgs		0018-1L
			tr Ca	: pl gy to w, st		0018-2L
			tr Cont	: prp		0018-3L
4314.00						0019
	4.98	100	Sh/Clst:	dsk y brn to brn blk, carb, slt, st, trbofgs		0019-1L
			tr Ca	: pl gy to w, st		0019-2L
			tr Cont	: prp		0019-3L
4320.00						0020
	3.57	100	Sh/Clst:	dsk y brn to brn blk, carb, slt, st, trbofgs		0020-1L
			tr Ca	: pl gy to w, st		0020-2L
			tr Cont	: prp		0020-3L
4329.00						0021
	2.98	100	Sh/Clst:	gy brn to brn blk, carb, slt, st, trbofgs		0021-1L
			tr Ca	: pl gy to w, dsk y brn, st		0021-2L
			tr Cont	: prp		0021-3L
4332.00						0055
			100	Sh/Clst		0055-1L
4335.00						0022
	3.94	100	Sh/Clst:	gy brn to brn blk, slt, st		0022-1L
			tr Cont	: prp		0022-2L
4416.00						0056
			100	Sh/Clst		0056-1L

Table 3: Lithology description for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4512.00						0057
			100	Sh/Clst		0057-1L
4593.00						0058
			100	Sh/Clst		0058-1L
4692.00						0059
			100	Coal		0059-1L
4701.00						0023
			50	Coal : blk, st		0023-1L
			45	Coal : brn blk, st		0023-2L
			5	Sh/Clst: gy brn to blk, carb, st, wx		0023-3L
	51.75			bulk		0023-0B
			tr	S/Sst : gy pi, f		0023-4L
4704.00						0024
			50	Coal : blk, st		0024-1L
			45	Coal : brn blk, st		0024-2L
			5	Sh/Clst: gy brn to blk, carb, st, wx		0024-3L
			tr	S/Sst : gy pi, f		0024-4L

Table 4 : Thermal Maturity Data for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1290.00	cut	bulk	0.24	20	0.04	-	-	-	0027-0B
1400.00	cut	bulk	0.23	20	0.03	-	-	-	0028-0B
1510.00	cut	bulk	0.29	21	0.04	-	-	-	0029-0B
1610.00	cut	bulk	0.28	17	0.04	-	-	-	0030-0B
1730.00	cut	bulk	0.30	19	0.04	-	-	-	0031-0B
1850.00	cut	bulk	0.33	19	0.03	-	-	-	0032-0B
1960.00	cut	bulk	0.34	20	0.05	-	-	-	0033-0B
2060.00	cut	bulk	0.39	21	0.05	-	-	-	0034-0B
2160.00	cut	bulk	0.36	18	0.07	-	-	-	0035-0B
2244.00	cut	bulk	0.39	13	0.08	-	-	-	0036-0B
2301.00	cut	bulk	0.39	17	0.07	-	-	-	0037-0B
2421.00	cut	bulk	0.52	6	0.04	-	-	-	0038-0B
2517.00	cut	bulk	0.45	4	0.04	-	-	-	0039-0B
2625.00	cut	bulk	0.51	1	0.00	-	-	-	0040-0B
2760.00	cut	bulk	0	-	0.00	-	-	-	0041-0B

Table 4 : Thermal Maturity Data for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
2860.00	cut	bulk	0	-	0.00	-	-	-	0042-0B
2970.00	cut	bulk	0	-	0.00	-	-	-	0043-0B
3080.00	cut	bulk	0	-	0.00	-	-	-	0044-0B
3130.00	cut	bulk	0	-	0.00	-	-	-	0045-0B
3530.00	cut	bulk	0	-	0.00	-	-	-	0046-0B
3670.00	cut	bulk	1.32	5	0.18	-	-	-	0047-0B
3780.00	cut	bulk	1.39	7	0.37	-	-	-	0048-0B
3880.00	cut	bulk	0.64	4	0.04	-	-	-	0049-0B
3980.00	cut	bulk	0.81	1	0.00	-	-	-	0050-0B
4092.00	cut	bulk	0.76	2	0.04	-	-	-	0051-0B
4176.00	cut	bulk	1.49	16	0.23	-	-	-	0052-0B
4245.00	cut	bulk	0.76	17	0.06	-	-	-	0053-0B
4260.00	cut	Sh/Clst: gy blk to brn blk	-	-	-	-	8.5(??)	441	0014-1L
4299.00	cut	bulk	0.52	8	0.05	-	-	-	0054-0B
4314.00	cut	Sh/Clst: dsk y brn to brn blk	-	-	-	-	9.0(??)	448	0019-1L

Table 4 : Thermal Maturity Data for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
4332.00	cut	bulk	0.88	10	0.10	-	-	-	0055-0B
4335.00	cut	Sh/Clst: gy brn to brn blk	-	-	-	-	9.0(??)	448	0022-1L
4416.00	cut	bulk	0.89	13	0.08	-	-	-	0056-0B
4512.00	cut	bulk	0.97	17	0.13	-	-	-	0057-0B
4593.00	cut	bulk	1.04	19	0.11	-	-	-	0058-0B
4692.00	cut	bulk	1.03	30	0.05	-	-	-	0059-0B

Table 5A: Rock-Eval table for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4248.00	cut	DRAU	Sh/Clst: gy blk to brn blk	41.99	10.62	0.64	16.59	6.59	161	10	52.6	0.80	444	0013-1L
4260.00	cut	DRAU	Sh/Clst: gy blk to brn blk	52.99	9.89	0.62	15.95	8.16	121	8	62.9	0.84	441	0014-1L
4260.00	ext		bulk	0.65	7.19	0.63	11.41	6.71	107	9	7.8	0.08	442	0060-0B
4272.00	cut	DRAU	Sh/Clst: gy blk to brn blk	56.47	6.49	0.73	8.89	6.63	98	11	63.0	0.90	435	0015-1L
4284.00	cut	DRAU	Sh/Clst: gy blk to brn blk	64.61	4.79	1.09	4.39	6.78	71	16	69.4	0.93	433	0016-1L
4296.00	cut	DRAU	Sh/Clst: dsk y brn to brn blk	45.78	5.59	0.92	6.08	5.95	94	15	51.4	0.89	437	0017-1L
4305.00	cut	DRAU	Sh/Clst: dsk y brn to brn blk	53.44	4.79	1.10	4.35	5.57	86	20	58.2	0.92	434	0018-1L
4314.00	cut	DRAU	Sh/Clst: dsk y brn to brn blk	32.71	4.56	0.94	4.85	4.98	92	19	37.3	0.88	448	0019-1L
4314.00	ext		bulk	3.60	2.88	1.19	2.42	2.58	112	46	6.5	0.56	444	0061-0B
4320.00	cut	HEAT	Sh/Clst: dsk y brn to brn blk	34.54	5.41	1.04	5.20	3.57	152	29	40.0	0.86	449	0020-1L
4329.00	cut	HEAT	Sh/Clst: gy brn to brn blk	16.90	3.81	1.05	3.63	2.98	128	35	20.7	0.82	452	0021-1L
4335.00	cut	HEAT	Sh/Clst: gy brn to brn blk	31.15	5.98	1.31	4.56	3.94	152	33	37.1	0.84	448	0022-1L
4335.00	ext		bulk	0.41	2.83	0.94	3.01	2.61	108	36	3.2	0.13	450	0062-0B
4339.50	ccp	HUGI	bulk	1.72	0.09	0.11	0.82	-	-	-	1.8	0.95	397	0001-0B
4340.59	ccp	HUGI	bulk	2.47	0.25	0.22	1.14	-	-	-	2.7	0.91	389	0002-0B
4341.87	ccp	HUGI	bulk	1.52	-	0.06	-	-	-	-	1.5	1.00	-	0003-0B

Table 5A: Rock-Eval table for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4343.00	ccp	HUGI	bulk	3.83	0.01	0.07	0.14	-	-	-	3.8	1.00	-	0004-0B
4344.50	ccp	HUGI	bulk	2.20	0.33	0.16	2.06	-	-	-	2.5	0.87	443	0005-0B
4345.63	ccp	HUGI	bulk	1.62	0.28	0.24	1.17	-	-	-	1.9	0.85	391	0006-0B
4346.70	ccp	HUGI	bulk	1.57	0.32	0.13	2.46	-	-	-	1.9	0.83	436	0007-0B
4347.90	ccp	HUGI	bulk	1.38	0.02	0.08	0.25	-	-	-	1.4	0.99	375	0008-0B
4348.86	ccp	HUGI	bulk	2.40	0.96	0.18	5.33	-	-	-	3.4	0.71	448	0009-0B
4397.16	ccp	HUGI	bulk	0.32	0.18	0.06	3.00	-	-	-	0.5	0.64	438	0010-0B
4398.63	ccp	HUGI	bulk	2.65	0.25	0.41	0.61	-	-	-	2.9	0.91	394	0011-0B
4399.40	ccp	HUGI	bulk	1.73	0.56	0.09	6.22	-	-	-	2.3	0.76	455	0012-0B
4701.00	cut	INSL	bulk	100.27	79.72	4.41	18.08	51.75	154	9	180.0	0.56	469	0023-0B

Table 5B: Rock-Eval table for well RE, STD

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1.00	std		bulk	0.45	20.63	2.11	9.78	-	-	-	21.1	0.02	416	0105-0B
2.00	std		bulk	0.53	20.61	1.70	12.12	-	-	-	21.1	0.03	421	0106-0B

Table 6 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
4260.00	cut	Sh/Clst: gy blk to brn blk	5.92	20.20	45.60	28.28	-	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	4.51	19.08	45.68	30.72	-	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	5.87	18.86	43.90	31.36	-	0022-1L
4701.00	cut	bulk	26.46	22.56	26.09	24.89	-	0023-0B

Table 7: Visual Kerogen Composition Data for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	Amorphous AM% FA HA			Algal/Phytoplankton AP% Cy Ta Bo Di De					Herbaceous HE% SP Cu De				Woody WO% FL NF De				Coaly CO% FS De			SCI	Sample
4260.00	cut	Sh/Clst	70			10	*			*	TR	*	?	10		*	**	10	*	**	8.5(??)	0014-1L	
4314.00	cut	Sh/Clst	75			10	*			*	TR	*	?	10		*	*	5	*	**	9.0(??)	0019-1L	
4335.00	cut	Sh/Clst	75			10	*			*	TR	*	? ?	5		*	**	10	*	*	9.0(??)	0022-1L	

Table 8 a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
4260.00	cut	Sh/Clst: gy blk to brn blk	11.1	599.9	483.3	34.9	24.1	57.6	518.2	81.7	8.16	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	9.7	234.4	186.8	14.7	12.1	20.8	201.5	32.9	4.98	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	9.9	337.7	275.1	14.5	14.4	33.6	289.7	48.0	3.94	0022-1L
4339.50	ccp	bulk	10.1	12.1	8.4	0.8	2.1	0.7	9.3	2.8	0.13	0001-0B
4343.00	ccp	bulk	9.3	23.1	7.6	0.2	2.4	12.9	7.8	15.3	0.20	0004-0B
4348.86	ccp	bulk	10.1	40.5	30.1	2.5	5.0	2.9	32.6	7.9	0.74	0009-0B
4398.63	ccp	bulk	11.3	44.0	31.4	3.1	5.2	4.3	34.5	9.5	0.35	0011-0B
4399.40	ccp	bulk	8.0	18.0	10.2	2.0	4.1	1.7	12.1	5.9	0.56	0012-0B
4701.00	cut	bulk	9.6	737.9	375.2	39.2	158.6	164.9	414.4	323.5	51.75	0023-0B

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4260.00	cut	Sh/Clst: gy blk to brn blk	53802	43344	3129	2165	5164	46473	7329	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	24239	19321	1518	1253	2146	20839	3400	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	34180	27849	1469	1456	3404	29318	4861	0022-1L
4339.50	ccp	bulk	1196	834	83	209	69	917	278	0001-0B
4343.00	ccp	bulk	2489	818	22	254	1393	841	1647	0004-0B
4348.86	ccp	bulk	3998	2971	243	497	285	3215	782	0009-0B
4398.63	ccp	bulk	3886	2775	272	458	380	3047	839	0011-0B
4399.40	ccp	bulk	2255	1273	248	516	218	1521	734	0012-0B
4701.00	cut	bulk	76466	38879	4059	16437	17090	42938	33527	0023-0B

Table 8 c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4260.00	cut	Sh/Clst: gy blk to brn blk	659.35	531.18	38.35	26.53	63.29	569.53	89.82	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	486.75	387.98	30.48	25.17	43.11	418.47	68.28	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	867.52	706.83	37.30	36.97	86.42	744.13	123.38	0022-1L
4339.50	ccp	bulk	<u>920.64</u>	<u>642.17</u>	63.91	161.30	53.26	706.08	214.56	0001-0B
4343.00	ccp	bulk	1244.61	409.48	11.31	127.16	696.66	420.80	823.81	0004-0B
4348.86	ccp	bulk	540.27	401.54	32.95	67.23	38.55	434.49	105.79	0009-0B
4398.63	ccp	bulk	1110.55	793.03	77.74	130.99	108.78	870.77	239.78	0011-0B
4399.40	ccp	bulk	402.79	227.35	44.31	92.19	38.94	271.66	131.13	0012-0B
4701.00	cut	bulk	147.76	75.13	7.84	31.76	33.02	82.97	64.79	0023-0B

Table 8 d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	Aro	Non-HC	
4260.00	cut	Sh/Clst: gy blk to brn blk	80.56	5.82	4.02	9.60	86.38	13.62	1385.18	634.09	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	79.71	6.26	5.17	8.86	85.97	14.03	1272.75	612.90	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	81.48	4.30	4.26	9.96	85.78	14.22	1894.97	603.10	0022-1L
4339.50	ccp	bulk	69.75	6.94	17.52	5.79	76.69	23.31	1004.76	329.08	0001-0B
4343.00	ccp	bulk	32.90	0.91	10.22	55.97	33.81	66.19	3619.05	51.08	0004-0B
4348.86	ccp	bulk	74.32	6.10	12.44	7.14	80.42	19.58	1218.62	410.72	0009-0B
4398.63	ccp	bulk	71.41	7.00	11.80	9.80	78.41	21.59	1020.13	363.16	0011-0B
4399.40	ccp	bulk	56.44	11.00	22.89	9.67	67.44	32.56	513.13	207.17	0012-0B
4701.00	cut	bulk	50.85	5.31	21.50	22.35	56.15	43.85	957.85	128.07	0023-0B

Table 8e: Iatroscan TLC Bulk Composition: Absolute yields in mg/g rock for well NOCS 25/10-6S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM weighed</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>Resins</u>	<u>Asp</u>	<u>Tot HC</u>	<u>Tot Pol</u>	<u>EOM calcul.</u>	<u>Sample</u>
4260.00	cut	Sh/Clst	53.80	30.06	1.16	2.37	2.17	31.22	4.53	35.75	0014-1L
4314.00	cut	Sh/Clst	24.24	13.75	0.33	1.87	1.25	14.08	3.12	17.21	0019-1L
4335.00	cut	Sh/Clst	34.18	18.00	0.41	3.13	1.46	18.41	4.59	23.00	0022-1L
4339.50	ccp	bulk	1.20	0.58	0.01	0.04	0.21	0.60	0.25	0.85	0001-0B
4343.00	ccp	bulk	2.49	1.61	0.03	0.07	0.25	1.65	0.33	1.98	0004-0B
4348.86	ccp	bulk	4.00	1.99	0.14	0.14	0.50	2.13	0.64	2.76	0009-0B
4398.63	ccp	bulk	3.92	2.31	0.05	0.10	0.46	2.36	0.57	2.93	0011-0B
4399.40	ccp	bulk	2.26	1.06	0.05	0.09	0.52	1.11	0.60	1.71	0012-0B
4701.00	cut	bulk	76.39	29.29	3.61	7.46	16.42	32.90	23.88	56.78	0023-0B

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>Resins</u>	<u>Asp</u>	<u>Tot HC</u>	<u>Tot Pol</u>	<u>Sample</u>
4260.00	cut	Sh/Clst	85.89	3.31	6.77	4.02	89.20	10.80	0014-1L
4314.00	cut	Sh/Clst	81.76	1.96	11.11	5.17	83.72	16.28	0019-1L
4335.00	cut	Sh/Clst	79.99	1.84	13.91	4.26	81.83	18.17	0022-1L
4339.50	ccp	bulk	75.05	1.88	5.57	17.50	76.93	23.07	0001-0B
4343.00	ccp	bulk	84.13	1.79	3.87	10.22	85.91	14.09	0004-0B
4348.86	ccp	bulk	76.93	5.22	5.41	12.44	82.15	17.85	0009-0B
4398.63	ccp	bulk	82.68	1.84	3.69	11.79	84.52	15.48	0011-0B
4399.40	ccp	bulk	68.12	3.33	5.67	22.88	71.45	28.55	0012-0B
4701.00	cut	bulk	56.99	7.01	14.50	21.50	64.00	36.00	0023-0B

Table 9A: Quantitative Analysis of Saturated Fraction for well 25/10-6S

sample	nC15 mg/g sat	nC16 mg/g sat	iC18 mg/g sat	nC17 mg/g sat	Pr mg/g sat	nC18 mg/g sat	Ph mg/g sat	nC19 mg/g sat	nC20 mg/g sat	nC21 mg/g sat	nC22 mg/g sat	nC23 mg/g sat	nC24 mg/g sat	nC25 mg/g sat	nC26 mg/g sat	nC27 mg/g sat	nC28 mg/g sat	nC29 mg/g sat	nC30 mg/g sat	nC31 mg/g sat	nC32 mg/g sat	nC33 mg/g sat	nC34 mg/g sat
4260.00m	15.46	14.13	0.00	17.00	0.00	11.38	0.00	7.25	4.24	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4314.00m	11.66	11.16	0.00	10.84	0.00	9.31	0.00	5.39	3.63	2.08	1.07	0.55	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4335.00m	11.93	12.79	0.00	11.11	0.00	9.41	0.00	5.73	3.47	2.04	1.10	0.56	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4339.50m	0.00	9.54	0.00	13.55	0.00	10.85	0.00	7.58	4.74	2.87	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4343.00m	0.00	8.85	0.00	15.87	0.00	15.20	0.00	11.52	7.92	5.13	3.28	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4348.86m	10.61	13.58	0.00	16.45	0.00	12.37	0.00	8.18	5.12	3.08	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4398.63m	11.57	15.19	0.00	17.50	0.00	13.47	0.00	8.62	5.32	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4399.40m	11.89	13.91	0.00	12.19	0.00	11.25	0.00	6.61	4.07	2.57	1.65	1.06	0.74	0.52	0.49	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4701.00m	15.55	16.17	0.00	16.89	0.00	12.02	0.00	7.43	4.41	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane/nC17	Phytane	CPI1	nC17	Sample
			nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
4260.00	cut	Sh/Clst: gy blk to brn blk	-	-	-	-	-	1.00	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	-	-	-	-	-	1.00	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	-	-	-	-	-	1.00	0022-1L
4339.50	ccp	bulk	-	-	-	-	-	1.00	0001-0B
4343.00	ccp	bulk	-	-	-	-	-	1.00	0004-0B
4348.86	ccp	bulk	-	-	-	-	-	1.00	0009-0B
4398.63	ccp	bulk	-	-	-	-	-	1.00	0011-0B
4399.40	ccp	bulk	-	-	-	-	1.33	0.97	0012-0B
4701.00	cut	bulk	-	-	-	-	-	1.00	0023-0B

Table 9Ca: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT (3+2) /1MDBT	Sample
4260.00	cut	Sh/Clst: gy blk to brn blk	-	-	-	-	-	-	-	-	-	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	-	-	-	-	-	-	-	-	-	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	-	-	-	-	-	-	-	-	-	0022-1L
4339.50	ccp	bulk	-	-	-	-	-	-	-	-	-	0001-0B
4343.00	ccp	bulk	-	-	-	1.16	1.39	1.43	1.23	-	-	0004-0B
4348.86	ccp	bulk	-	-	-	1.37	0.98	1.24	0.99	-	-	0009-0B
4398.63	ccp	bulk	-	-	-	1.15	0.78	0.92	0.87	-	-	0011-0B
4399.40	ccp	bulk	-	-	-	1.69	0.96	1.17	0.98	-	-	0012-0B
4701.00	cut	bulk	2.21	2.73	0.23	1.83	1.07	1.31	1.04	-	-	0023-0B

Table 9Cb: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
4260.00	cut	Sh/Clst: gy blk to brn blk	-	-	0014-1L
4314.00	cut	Sh/Clst: dsk y brn to brn blk	-	-	0019-1L
4335.00	cut	Sh/Clst: gy brn to brn blk	-	-	0022-1L
4339.50	ccp	bulk	-	-	0001-0B
4343.00	ccp	bulk	0.58	0.30	0004-0B
4348.86	ccp	bulk	0.52	0.33	0009-0B
4398.63	ccp	bulk	0.49	0.29	0011-0B
4399.40	ccp	bulk	0.55	0.34	0012-0B
4701.00	cut	bulk	0.60	0.37	0023-0B

Table 10A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 25/10-6S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
4260.00	cut	Sh/Clst	-27.39	-27.01	-27.67	-27.78	-27.91	-28.26	0014-1
4314.00	cut	Sh/Clst	-27.75	-26.87	-26.11	-28.06	-26.31	-25.49	0019-1
4335.00	cut	Sh/Clst	-27.74	-26.85	-26.31	-28.13	-25.97	-24.76	0022-1
4339.50	ccp	bulk	-27.64	-27.21	-24.47	-25.34	-25.07	-	0001-0
4343.00	ccp	bulk	-27.60	-26.50	-20.45	-26.30	-25.96	-	0004-0
4348.86	ccp	bulk	-27.78	-27.45	-24.71	-26.93	-26.57	-	0009-0
4398.63	ccp	bulk	-26.61	-27.04	-20.55	-23.55	-24.87	-	0011-0
4399.40	ccp	bulk	-26.47	-26.25	-	-24.91	-24.87	-	0012-0
4701.00	cut	bulk	-27.20	-26.87	-24.91	-27.18	-25.80	-	0023-0

Table 10B: Tabulation of cv values from carbon isotope data for well NOCS 25/10-6S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
4260.00	cut	Sh/Clst	-27.01	-27.67	-4.74	0014-1
4314.00	cut	Sh/Clst	-26.87	-26.11	-1.63	0019-1
4335.00	cut	Sh/Clst	-26.85	-26.31	-2.13	0022-1
4339.50	ccp	bulk	-27.21	-24.47	2.87	0001-0
4343.00	ccp	bulk	-26.50	-20.45	10.00	0004-0
4348.86	ccp	bulk	-27.45	-24.71	2.94	0009-0
4398.63	ccp	bulk	-27.04	-20.55	11.14	0011-0
4399.40	ccp	bulk	-26.25	-	-	0012-0
4701.00	cut	bulk	-26.87	-24.91	1.03	0023-0

Table 11a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 25/10-6S

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
4260.00	Sh/Clst	0.62	0.38	0.21	0.56	0.36	0.17	0.19	0.33	0.16	0.20	1.00	0.36	-	-	0014-1
4314.00	Sh/Clst	-	-	-	0.78	0.44	-	0.60	0.76	0.37	0.72	1.00	0.44	-	-	0019-1
4335.00	Sh/Clst	0.82	0.45	0.23	0.50	0.33	0.41	0.25	0.49	0.20	0.40	1.00	0.33	-	-	0022-1
4339.50	bulk	0.83	0.45	0.23	0.58	0.37	0.11	-	-	-	0.95	1.00	0.37	-	-	0001-0
4343.00	bulk	-	-	-	0.81	0.45	0.26	-	-	-	0.35	1.00	0.45	-	55.67	0004-0
4348.86	bulk	0.57	0.36	0.21	0.82	0.45	0.14	-	-	-	1.37	0.88	0.42	0.08	52.07	0009-0
4398.63	bulk	-	-	-	0.75	0.43	0.17	-	-	-	0.51	0.82	0.43	0.22	53.26	0011-0
4399.40	bulk	0.34	0.26	0.13	0.64	0.39	0.23	-	-	-	0.18	0.81	0.41	0.27	47.31	0012-0
4701.00	bulk	0.66	0.40	0.26	0.74	0.43	0.49	-	-	-	1.30	1.00	0.43	-	-	0023-0

List of Triterpane Distribution Ratios

Ratio 1: $27Tm / 27Ts$

Ratio 2: $27Tm / 27Tm+27Ts$

Ratio 3: $27Tm / 27Tm+30a\beta+30\beta a$

Ratio 4: $29a\beta / 30a\beta$

Ratio 5: $29a\beta / 29a\beta+30a\beta$

Ratio 6: $30d / 30a\beta$

Ratio 7: $28a\beta / 30a\beta$

Ratio 8: $28a\beta / 29a\beta$

Ratio 9: $28a\beta / 28a\beta+30a\beta$

Ratio 10: $24/3 / 30a\beta$

Ratio 11: $30a\beta / 30a\beta+30\beta a$

Ratio 12: $29a\beta+29\beta a / 29a\beta+29\beta a+30a\beta+30\beta a$

Ratio 13: $29\beta a+30\beta a / 29a\beta+30a\beta$

Ratio 14: $32a\beta S / 32a\beta S+32a\beta R$ (%)