

GEOCHEMICAL DATA REPORT

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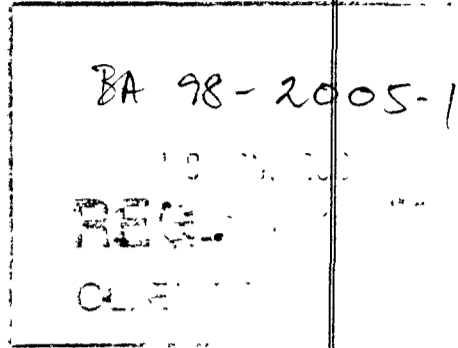
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TITLE

GEOCHEMICAL ANALYSIS OF WELL NOCS 6706/11-1: Age-Related biomarkers

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

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3921.47	ccp					0001
		100	Sh/Clst:	drk gy to blk, slt		0001-1L
3943.55	ccp					0002
		100	Sh/Clst:	drk gy to blk, slt		0002-1L
3978.70	ccp					0003
		100	Sh/Clst:	drk gy to blk, slt		0003-1L

Table 5: Rock-Eval table for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3921.47	ccp		Sh/Clst	0.40	1.56	-	-	3.90	40	-	2.0	0.20	437	0101-1L
3943.55	ccp		Sh/Clst	0.76	2.34	-	-	2.40	97	-	3.1	0.25	428	0102-1L
3978.70	ccp		Sh/Clst	0.52	1.68	-	-	1.43	117	-	2.2	0.24	438	0103-1L

Table 8a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC (e) (%)	Sample
3978.70	com	Composite sample - see table 8f	4.6	14.8	4.9	4.7	1.6	3.6	9.6	5.2	1.75	0004-0B

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3978.70	com	Composite sample - see table 8f	3241	1077	1020	350	793	2097	1144	0004-0B

Table 8c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3978.70	com	Composite sample - see table 8f	185.23	61.55	58.31	20.03	45.35	119.86	65.38	0004-0B

Table 8d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
3978.70	com	Composite sample - see table 8f	33.23	31.48	10.81	24.48	100.00	64.71	35.29	1.85	0.55	0004-0B

Table 8e: MPLC Bulk Composition: Ratios for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
3978.70	com	Composite sample - see table 8f	1.06	1.83	0.44	0004-0B

Depth unit of measure: m

NOTE: Depths shown in tables 8 a to e correspond to the composite samples' lower depth.

Upper depth	Lower depth	Typ	Sample	Depth	Typ	Lithology	Sample
3921.47	3978.70	com	0004-0B is composed of:	3921.47	ccp	Sh/Clst: drk gy to blk, slt	0001-1L
				3943.55	ccp	Sh/Clst: drk gy to blk, slt	0002-1L
				3978.70	ccp	Sh/Clst: drk gy to blk, slt	0003-1L

Table 8g: Iatroscan TLC Bulk Composition: Absolute yields in mg/g rock for well NOCS 6506/11-3

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>NSO</u>	<u>Asp</u>	<u>HC</u>	<u>Non-HC</u>	<u>EOM</u>	<u>Sample</u>
3978.70	com	bulk	1.52	0.05	1.33	0.35	1.56	1.68	3.24	0004-0B

Table 8h: Iatroscan TLC Bulk Composition: Rel. percentages of sep. fractions for well NOCS 6506/11-3

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>NSO</u>	<u>Asp</u>	<u>Total</u>	<u>HC</u>	<u>Non-HC</u>	<u>Recov. Iatr.</u>	<u>Recov. Asp</u>	<u>Sample</u>
3978.70	com	bulk	46.77	1.45	40.97	10.81	100.00	48.22	51.78	0.12	0.55	0004-0B

Table 3a: Quantitative Analysis of Saturated Fraction for well 6506/11-3

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
3978.70m	2.66	3.53	2.75	4.07	5.12	3.68	2.23	4.20	3.51	3.70	3.69	3.74	3.21	0.00	2.48	2.09	1.60	1.33	0.92	0.89	0.40	0.49	0.42

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	$\frac{\text{Pristane}}{\text{nC17}}$	$\frac{\text{Pristane}}{\text{Phytane}}$	$\frac{\text{Pristane/nC17}}{\text{Phytane/nC18}}$	$\frac{\text{Phytane}}{\text{nC18}}$	CPI1	$\frac{\text{nC17}}{\text{nC17+nC27}}$	Sample
3978.70	com	bulk	1.26	2.29	2.07	0.61	0.66	0.66	0004-0B

Table 9Ca: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3978.70	com	bulk	-	1.25	0.13	1.21	0.71	0.84	0.82	0.14	-	-	0004-0B

Table 9Cb: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6506/11-3

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
3978.70	com	bulk	0.50	0.29	0004-0B

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

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
3978.70	bulk	0.38	0.27	0.06	0.37	0.27	0.17	0.03	0.08	0.03	0.06	0.90	0.26	0.10	62.29	0004-0

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

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

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
3978.70	bulk	0.84	51.67	69.20	1.29	0.68	0.45	0.30	0.53	1.07	2.32	0004-0

List of Sterane Distribution Ratios

Ratio 1: $27d\beta S / 27d\beta S + 27aaR$

Ratio 2: $29aaS / 29aaS + 29aaR$ (%)

Ratio 3: $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$ (%)

Ratio 4: $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5: $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6: $21a + 22a / 21a + 22a + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7: $21a + 22a / 21a + 22a + 28daS + 28aaS + 29daR + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 8: $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 9: $29aaS / 29aaR$

Ratio 10: $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3978.70	bulk	4631.6	2850.6	1233.4	2437.4	927.1	8999.3	3385.9	1287.6	1970.7	0004-0
		16481.8	13915.4	7792.5	1224.7	0.0	44616.8	4726.1	0.0	15337.8	
		11355.1	10077.9	6102.2	5191.2	3125.6	3000.5	1736.3	1329.0	798.3	

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BBR	29BS	29aaR					
3978.70	bulk	3119.7	1121.6	6963.8	4306.2	2119.2	1626.7	5320.5	3121.4	1554.3	0004-0
		5430.9	2199.0	1315.7	3266.8	1080.2	790.9	1903.8	1907.4		
		483.8	1252.9	1500.0	1224.5	1172.0					

* 28daR coel with 27aaS, 29dBS coel with 27BBR, 28daS coel with 27BS, 29daS coel with 28BBR

Table 11e: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	27 β BR	27 β SS	28 β BR	28 β SS	29 β BR	29 β SS	30 β BR	30 β SS	Sample
3978.70	bulk	3634.8	1981.4	2662.3	2380.0	1988.5	1890.0	312.5	286.7	0004-0

Depth unit of measure: m

Depth	Lithology	25nor28a β	25nor30a β	Sample
3978.70	bulk	0.0	0.0	0004-0

Table 11g: Amount of standard and weight of sample for Well NOCS 6506/11-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Standard</u>	<u>Amount</u>	<u>Weight</u>	<u>Sample</u>
3978.70	bulk	115428.9	0.700	0.5	0004-0

Table 11h: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3978.70	bulk	56175.1	34573.9	14959.2	29562.5	11244.7	109149.2	41066.9	15616.9	23902.3	0004-0
		199901.8	168775.0	94512.5	14853.8	0.0	541142.8	57321.6	0.0	186027.7	
		137722.0	122231.9	74011.3	62962.0	37909.7	36392.1	21059.4	16118.6	9681.9	

Table 11i: Amount of steranes (ppb) m/z 217 SIR for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BBR	29BS	29aaR					
3978.70	bulk	37837.6	13603.4	84461.4	52229.0	25702.6	19729.6	64530.8	37858.3	18851.4	0004-0
		65869.4	26670.5	15957.1	39622.2	13101.7	9592.6	23091.2	23134.3		
		5867.8	15196.1	18193.4	14851.6	14214.7					

* 28daR coel with 27aaS, 29dBS coel with 27BBR, 28daS coel with 27BS, 29daS coel with 28BBR

Table 18a: Variation in Triterpane Distribution (peak height) MRM for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Sample
3978.70	bulk	0.35	0.26	0.61	0.88	0.47	0.22	-	-	-	0.92	0.47	0.09	0004-0

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

Ratio 11: $29a\beta+29\beta a / 29a\beta+29\beta a+30a\beta+30\beta a$

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

Table 18b: Variation in Sterane Distribution (peak height) MRM for Well NOCS 6506/11-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Sample</u>
3978.70	bulk	0.88	51.31	71.59	1.22	0.71	0.56	1.05	2.59	0004-0

List of Sterane Distribution Ratios

Ratio 1: $27d\beta S / 27d\beta S + 27aaR$

Ratio 2: $29aaS / 29aaS + 29aaR$ (%)

Ratio 3: $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$ (%)

Ratio 4: $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5: $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6: $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7: $29aaS / 29aaR$

Ratio 8: $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 18c: Raw triterpane data (peak height) MRM for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	27Ts	27Tm	28aβ	29aβ	30d	29βa	30aβ	30βa	31aβS	Sample
		31aβR	31βa								
3978.70	bulk	6420.4 143.0	2240.3 34.2	0.0	1142.4	290.3	101.9	1296.6	120.2	196.2	0004-0

Table 18d: Raw sterane data (peak height) MRM for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	27d β S	27d β R	27daR	27daS	28d β S	28d β R	28daR	27aaS	29d β S	Sample
		27 $\beta\beta$ R	28daS	27 $\beta\beta$ S	27aaR	29d β R	29daR	28aaS	29daS		
		28 $\beta\beta$ R	28 $\beta\beta$ S	28aaR	29aaS	29 $\beta\beta$ R	29 $\beta\beta$ S	29aaR			
3978.70	bulk	5023.5	3172.7	858.6	1217.3	5521.9	3660.9	1497.5	556.1	3943.1	0004-0
		924.1	612.2	1448.1	667.5	2350.2	709.3	633.1	1421.6		
		1251.8	1152.6	589.9	637.9	817.0	749.8	605.4			

Table 18e: Saturated Hydrocarbons data (peak height) m/z 358-217 MRM for Well NOCS 6506/11-3

Depth unit of measure: m

Depth	Lithology	24nordBS	24nordBR	27nordBS	27nordBR	24noraas	24norBSR	24norBS	24noraar	21nor	Sample
		27noraas	27norBSR	27norBS	27noraar						
3978.70	bulk	447.9 189.6	342.7 108.5	673.2 115.3	428.2 88.4	134.7	104.1	145.2	181.8	135.7	0004-0

Table 18f: Variation in C26 sterane distribution (peak height) m/z 358-217 MRM for Well NOCS 6506/11-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio D</u>	<u>Ratio N</u>	<u>Ratio A</u>	<u>Sample</u>
3978.70	bulk	0.42	0.53	0.46	0004-0

List of C26 Sterane Distribution Ratios

Ratio D: $(24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}) / (24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+27\text{d}\beta\text{S}+27\text{d}\beta\text{R})$

Ratio N: $(24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}) / (24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}+27\text{aaS}+27\beta\beta\text{R}+27\beta\beta\text{S}+27\text{aaR})$

Ratio A: $(24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}) / (24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+27\text{d}\beta\text{S}+27\text{d}\beta\text{R}+24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}+27\text{aaS}+27\beta\beta\text{R}+27\beta\beta\text{S}+27\text{aaR})$

PART 2 - ROCK SAMPLES 6506/12-5 – Spekk Fm.

TABLES

- 1. Analytical Program (see Part 1)
- 3. Lithology Description
- 5 TOC and Rock-Eval
- 8a-e. Bulk Solvent Extract Composition (MPLC)
- 8f-g. Bulk Solvent Extract Composition (Iatroscan)
- 9a-c. Saturated and Aromatic Hydrocarbon GC (and Quantitative Analysis of Saturated Fraction)
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- 18a-f. Gas Chromatography - Mass Spectrometry, Saturated Hydrocarbons MRM Analysis

APPENDIX 1:

- I. Saturated Hydrocarbon Gas Chromatograms
- II. Aromatic Hydrocarbons Gas Chromatograms (FID and FPD)

APPENDIX 2:

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

Table 3 : Lithology description for well NOCS 6506/12-5

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3795.00						0001
				75 Sh/Clst: brn blk, carb		0001-1L
				10 Sh/Clst: m drk gy to drk gy, mic		0001-2L
				5 Sh/Clst: brn gy		0001-3L
				5 Coal : blk		0001-4L
				5 Cont : cem, dd		0001-5L
3800.00						0002
				50 Sh/Clst: brn blk to blk, carb		0002-1L
				30 Coal : blk		0002-3L
				15 Sh/Clst: m drk gy to drk gy, mic		0002-2L
				5 Cont : cem, dd		0002-4L

Table 8a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6506/12-5

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
3795.00	cut	Sh/Clst: brn blk	4.6	112.0	40.0	18.5	7.7	45.8	58.5	53.5	6.02	0001-1L

Table 5: Rock-Eval table for well NOCS 6506/12-5

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3795.00	cut		Sh/Clst	7.93	22.68	-	-	7.20	315	-	30.6	0.26	433	0239-1L
3800.00	cut		Sh/Clst	6.79	19.95	-	-	8.03	248	-	26.7	0.25	433	0240-1L

Table 8c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6506/12-5

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3795.00	cut	Sh/Clst: brn blk	408.42	145.71	67.51	28.08	167.12	213.22	195.20	0001-1L

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3795.00	cut	Sh/Clst: brn blk	24586	8771	4063	1690	10060	12835	11750	0001-1L

Table 8e: MPLC Bulk Composition: Ratios for well NOCS 6506/12-5

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
3795.00	cut	Sh/Clst: brn blk	2.16	1.09	0.17	0001-1L

Table 8d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6506/12-5

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
3795.00	cut	Sh/Clst: brn blk	35.68	16.53	6.88	40.92	100.00	52.21	47.79	1.80	0.53	0001-1L

Table 8g: Iatroscan TLC Bulk Composition: Rel. percentages of sep. fractions for well NOCS 6506/12-5

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>NSO</u>	<u>Asp</u>	<u>Total</u>	<u>HC</u>	<u>Non-HC</u>	<u>Recov. Iatr.</u>	<u>Recov. Asp</u>	<u>Sample</u>
3795.00	cut	Sh/Clst	6.10	10.16	76.87	6.88	100.00	16.25	83.75	0.41	0.53	0001-1L

Table 8f: Iatroscan TLC Bulk Composition: Absolute yields in mg/g rock for well NOCS 6506/12-5

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>NSO</u>	<u>Asp</u>	<u>HC</u>	<u>Non-HC</u>	<u>EOM</u>	<u>Sample</u>
3795.00	cut	Sh/Clst	1.50	2.50	18.90	1.69	4.00	20.59	24.59	0001-1L

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6506/12-5

Depth unit of measure: m

Depth	Typ	Lithology	$\frac{\text{Pristane}}{\text{nC17}}$	$\frac{\text{Pristane}}{\text{Phytane}}$	$\frac{\text{Pristane/nC17}}{\text{Phytane/nC18}}$	$\frac{\text{Phytane}}{\text{nC18}}$	CPI1	$\frac{\text{nC17}}{\text{nC17+nC27}}$	Sample
3795.00	cut	Sh/Clst: brn blk	1.43	0.76	0.80	1.79	1.31	0.69	0001-1L

Table 9a: Quantitative Analysis of Saturated Fraction for well 6506/12-5

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
3795.00m	6.73	7.51	8.83	9.50	13.56	9.99	17.92	14.33	11.85	9.80	9.19	8.37	8.41	10.40	5.44	4.32	3.82	3.24	2.27	2.33	1.16	0.65	2.57

Table 9Cb: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6506/12-5

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
3795.00	cut	Sh/Clst: brn blk	0.53	0.20	0001-1L

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3795.00	cut	Sh/Clst: brn blk	0.60	1.11	0.07	1.11	1.02	0.77	1.01	1.38	4.09	0.92	0001-1L

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

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
3795.00	Sh/Clst	0.50	0.34	0.12	0.40	0.28	0.08	0.13	0.32	0.11	0.19	0.93	0.28	0.07	60.32	0001-1

List of Sterane Distribution Ratios

Ratio 1: $27d\beta S / 27d\beta S + 27aaR$

Ratio 2: $29aaS / 29aaS + 29aaR$ (%)

Ratio 3: $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$ (%)

Ratio 4: $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5: $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6: $21a + 22a / 21a + 22a + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7: $21a + 22a / 21a + 22a + 28daS + 28aaS + 29daR + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 8: $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 9: $29aaS / 29aaR$

Ratio 10: $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 11b: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6506/12-5

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
3795.00	Sh/Clst	0.78	48.25	75.63	1.42	0.76	0.56	0.41	0.61	0.93	3.00	0001-1

Table 11d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6506/12-5

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
3795.00	Sh/Clst	14837.9	7645.0	16488.3	10818.7	4386.0	4221.7	7951.8	4845.3	4388.7	0001-1
		11832.7	7397.5	4590.2	5585.5	2574.3	2137.9	5219.8	6083.2		
		1883.0	3403.5	6062.3	4884.3	3651.0					

* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aβ	25nor30aβ	Sample
		29aβ	29Ts	30d	29βa	300	30aβ	30βa	30G	31aβS	
		31aβR	32aβS	32aβR	33aβS	33aβR	34aβS	34aβR	35aβS	35aβR	
3795.00	Sh/C1st	13605.9	12611.6	5698.5	6278.8	2714.9	18813.7	9495.3	8538.9	2224.1	0001-1
		26433.5	18909.0	5565.2	1832.0	0.0	66574.7	4955.4	0.0	33733.2	
		23649.6	22137.1	14563.7	15020.5	9684.1	10363.9	6401.9	8665.3	5565.2	

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 6506/12-5

Depth unit of measure: m

Depth	Lithology	25nor28a β	25nor30a β	Sample
3795.00	Sh/Clst	0.0	0.0	0001-1

Depth unit of measure: m

Depth	Lithology	27 $\beta\beta$ R	27 $\beta\beta$ S	28 $\beta\beta$ R	28 $\beta\beta$ S	29 $\beta\beta$ R	29 $\beta\beta$ S	30 $\beta\beta$ R	30 $\beta\beta$ S	Sample
3795.00	Sh/Clst	12826.3	9251.3	8304.0	8589.9	8076.5	7721.3	3142.6	2892.8	0001-1

Table 11h: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 6506/12-5

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3795.00	Sh/Clst	161186.9	149407.8	67509.7	74384.0	32162.7	222883.6	112489.5	101159.0	26348.5	0001-1
		313154.2	224012.1	65930.0	21703.6	0.0	788701.4	58705.6	0.0	399632.6	
		280173.0	262254.6	172534.3	177946.2	114726.1	122779.2	75842.9	102656.9	65930.4	

Table 11g: Amount of standard and weight of sample for Well NOCS 6506/12-5

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Standard</u>	<u>Amount</u>	<u>Weight</u>	<u>Sample</u>
3795.00	Sh/Clst	3693.0	0.700	16.0	0001-1

Table 18a: Variation in Triterpane Distribution (peak height) MRM for Well NOCS 6506/12-5

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Sample
3795.00	Sh/Clst	0.41	0.29	0.72	0.95	0.49	0.11	0.50	0.53	0.33	0.95	0.49	0.06	0001-1

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
3795.00	Sh/Clst	175782.9	90568.7	195334.0	128167.9	51960.8	50013.6	94203.5	57401.7	51992.5	0001-1
		140180.4	87636.7	54378.9	66170.6	30496.8	25327.9	61837.7	72066.3		
		22308.0	40320.8	71819.6	57863.4	43252.5					

* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Table 18b: Variation in Sterane Distribution (peak height) MRM for Well NOCS 6506/12-5

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Sample</u>
3795.00	Sh/Clst	0.86	47.67	76.07	1.82	0.77	0.61	0.91	3.04	0001-1

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

Ratio 11: $29a\beta+29\beta a / 29a\beta+29\beta a+30a\beta+30\beta a$

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

Table 18c: Raw triterpane data (peak height) MRM for Well NOCS 6506/12-5

Depth unit of measure: m

Depth	Lithology	27Ts	27Tm	28aβ	29aβ	30d	29βa	30aβ	30βa	31aβS	Sample
		31aβR	31βa								
3795.00	Sh/Clst	6877.6 185.4	2831.8 21.9	520.0	987.7	115.3	69.0	1040.7	58.6	249.6	0001-1

List of Sterane Distribution Ratios

Ratio 1: $27d\beta S / 27d\beta S + 27aaR$

Ratio 2: $29aaS / 29aaS + 29aaR$ (%)

Ratio 3: $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$ (%)

Ratio 4: $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5: $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6: $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7: $29aaS / 29aaR$

Ratio 8: $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 18e: Saturated Hydrocarbons data (peak height) m/z 358-217 MRM for Well NOCS 6506/12-5

Depth unit of measure: m

Depth	Lithology	24nordBS	24nordBR	27nordBS	27nordBR	24noraas	24norβBR	24norβBS	24noraar	21nor	Sample
		27noraas	27norβBR	27norβBS	27noraar						
3795.00	Sh/Clst	356.6 420.2	364.1 398.4	1551.6 287.1	1005.4 309.2	175.0	149.6	93.5	211.0	300.6	0001-1

Depth unit of measure: m

Depth	Lithology	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR	27aaS	29dBS	Sample
		27BBR	28daS	27BBS	27aaR	29dBR	29daR	28aaS	29daS		
		28BBR	28BBS	28aaR	29aaS	29BBR	29BBS	29aaR			
3795.00	Sh/Clst	6302.8	3980.9	1203.5	1267.6	3988.3	2503.2	1204.7	1123.3	2759.8	0001-1
		1794.3	1345.6	1073.5	1050.0	1604.4	576.6	844.5	2062.4		
		814.1	1858.0	795.8	806.1	1466.3	1221.8	885.0			

List of C26 Sterane Distribution Ratios

Ratio D: $(24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}) / (24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+27\text{d}\beta\text{S}+27\text{d}\beta\text{R})$

Ratio N: $(24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}) / (24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}+27\text{aaS}+27\beta\beta\text{R}+27\beta\beta\text{S}+27\text{aaR})$

Ratio A: $(24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}) / (24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+27\text{d}\beta\text{S}+27\text{d}\beta\text{R}+24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}+27\text{aaS}+27\beta\beta\text{R}+27\beta\beta\text{S}+27\text{aaR})$

Depth unit of measure: m

Depth	Lithology	Ratio D	Ratio N	Ratio A	Sample
3795.00	Sh/Clst	0.22	0.31	0.25	0001-1

PART 3 - ROCK SAMPLES 6706/11-1 – Cretaceous Sandstones

TABLES

1. Analytical Program (see Part 1)
- 18a-f. Gas Chromatography - Mass Spectrometry, Saturated Hydrocarbons MRM Analysis*

APPENDIX 1:

- I. GC-MS Saturated Hydrocarbons MRM

* Note all other analytical data obtained on these samples can be found in the routine well report for NOCS well 6706/11-1

EXPERIMENTAL PROCEDURES

Table 18a: Variation in Triterpane Distribution (peak height) MRM for Well 6706/11-1

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Sample
2943.00	S/Sst	1.13	0.53	0.94	5.36	0.84	0.38	0.88	0.16	0.47	0.94	0.85	0.14	0083-1
3395.00	S/Sst	1.20	0.55	0.88	3.03	0.75	0.14	0.61	0.20	0.38	0.90	0.75	0.08	0085-1
3741.00	S/Sst	1.09	0.52	0.86	2.04	0.67	0.18	0.44	0.21	0.30	0.92	0.68	0.13	0088-1
4180.00	S/Sst	0.82	0.45	0.82	1.69	0.63	0.09	0.32	0.19	0.24	1.00	0.66	0.08	0094-1

Table 18b: Variation in Sterane Distribution (peak height) MRM for Well 6706/11-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Sample</u>
2943.00	S/Sst	0.65	39.48	72.51	1.78	0.77	0.57	0.65	2.18	0083-1
3395.00	S/Sst	0.59	50.48	73.59	1.78	0.73	0.58	1.02	2.81	0085-1
3741.00	S/Sst	0.63	46.01	74.59	1.99	0.76	0.59	0.85	2.72	0088-1
4180.00	S/Sst	0.67	37.75	74.41	1.85	0.79	0.59	0.61	2.34	0094-1

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

Ratio 11: $29a\beta+29\beta a / 29a\beta+29\beta a+30a\beta+30\beta a$

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

Table 18c: Raw triterpane data (peak height) MRM for Well 6706/11-1

Depth unit of measure: m

Depth	Lithology	27Ts	27Tm	28aß	29aß	30d	29ßa	30aß	30ßa	31aßS	Sample
		31aßR	31ßa								
2943.00	S/Sst	637.9	721.6	39.4	238.9	17.1	35.8	44.6	2.8	20.5	0083-1
		10.4	5.0								
3395.00	S/Sst	1976.5	2371.3	175.8	875.3	40.9	67.5	288.4	31.3	64.7	0085-1
		77.7	8.6								
3741.00	S/Sst	1781.2	1940.3	125.8	588.4	52.3	89.4	288.4	26.0	67.7	0088-1
		48.7	19.1								
4180.00	S/Sst	685.4	559.3	40.8	212.4	11.8	27.0	126.0	0.0	23.3	0094-1
		24.0	7.6								

List of Sterane Distribution Ratios

Ratio 1: $27d\beta S / 27d\beta S + 27aaR$

Ratio 2: $29aaS / 29aaS + 29aaR$ (%)

Ratio 3: $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$ (%)

Ratio 4: $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5: $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6: $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7: $29aaS / 29aaR$

Ratio 8: $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 18d: Raw sterane data (peak height) MRM for Well 6706/11-1

Depth unit of measure: m

Depth	Lithology	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR	27aaS	29dBS	Sample
		27BSR	28daS	27BS	27aaR	29dBR	29daR	28aaS	29daS		
		28BSR	28BS	28aaR	29aaS	29BSR	29BS	29aaR			
2943.00	S/Sst	929.2	472.7	137.8	213.0	342.1	277.4	156.7	286.3	388.9	0083-1
		484.2	279.3	127.3	494.3	174.2	79.3	140.6	343.7		
		111.9	313.5	185.0	140.8	276.4	194.0	215.9			
3395.00	S/Sst	2278.9	1561.5	426.8	530.2	1039.0	642.8	317.1	798.0	949.2	0085-1
		1285.1	1003.5	413.5	1594.7	605.3	194.5	464.8	947.1		
		302.0	805.0	491.3	545.1	772.5	732.2	534.8			
3741.00	S/Sst	3245.8	2144.9	480.5	541.5	1488.0	881.7	330.0	772.0	1154.7	0088-1
		1373.0	943.9	421.1	1904.7	817.5	278.1	446.1	968.7		
		335.7	882.0	566.9	487.8	902.5	653.8	572.5			
4180.00	S/Sst	1071.5	671.7	183.3	208.8	446.8	246.1	123.4	338.0	393.1	0094-1
		576.3	475.0	124.3	520.7	280.5	121.9	166.0	361.6		
		151.8	339.5	204.3	128.9	223.4	273.1	212.5			

Table 18e: Saturated Hydrocarbons data (peak height) m/z 358-217 MRM for Well 6706/11-1

Depth unit of measure: m

Depth	Lithology	24nordBS	24nordBR	27nordBS	27nordBR	24noraas	24norBSR	24norBS	24noraasR	21nor	Sample
		27noraas	27norBSR	27norBS	27noraasR						
2943.00	S/Sst	77.7 102.4	61.2 92.7	185.5 67.2	185.3 86.7	65.7	68.9	86.0	67.0	208.6	0083-1
3395.00	S/Sst	132.9 129.7	119.4 245.1	260.0 232.0	239.8 244.3	94.1	100.9	97.4	204.1	334.5	0085-1
3741.00	S/Sst	126.0 202.9	155.5 248.4	452.4 203.3	335.8 230.6	82.7	102.4	94.8	229.4	352.3	0088-1
4180.00	S/Sst	78.7 95.8	54.1 137.5	282.5 83.1	202.4 77.8	74.6	88.3	41.1	65.7	181.0	0094-1

Table 18f: Variation in C26 sterane distribution (peak height) m/z 358-217 MRM for Well 6706/11-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio D</u>	<u>Ratio N</u>	<u>Ratio A</u>	<u>Sample</u>
2943.00	S/Sst	0.27	0.45	0.37	0083-1
3395.00	S/Sst	0.34	0.37	0.36	0085-1
3741.00	S/Sst	0.26	0.37	0.32	0088-1
4180.00	S/Sst	0.21	0.41	0.31	0094-1

List of C26 Sterane Distribution Ratios

Ratio D: $(24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}) / (24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+27\text{d}\beta\text{S}+27\text{d}\beta\text{R})$

Ratio N: $(24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}) / (24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}+27\text{aaS}+27\beta\beta\text{R}+27\beta\beta\text{S}+27\text{aaR})$

Ratio A: $(24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}) / (24\text{nord}\beta\text{S}+24\text{d}\beta\text{R}+27\text{d}\beta\text{S}+27\text{d}\beta\text{R}+24\text{aaS}+24\beta\beta\text{R}+24\beta\beta\text{S}+24\text{aaR}+27\text{aaS}+27\beta\beta\text{R}+27\beta\beta\text{S}+27\text{aaR})$