

Mud Properties, daily record

Well: 6610/2-1

Operator: Statoil

Anchor/MI Drilling Fluids

FSR no.	Date 1996	Depth m	M.W. sg	F.Vis s/qt	VG-meter readings @							A.V. mPas	P.V. Pa	Y.P. 10s	Gel 10m	pH	API cc	HTHP 130°C cc	Cl- 1000 mg/l	Pl ml	Mf ml	Ca++ mg/l	Solids vol%	Oil vol%	Sand vol%	MBT kg/m3	KCL kg/m3	Glycol %	HGS kg/m3	LGS kg/m3	
					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm																					
36" Hole Section: Seawater - Bentonite Swaps																															
1	27-08	494	1,03	110	50	44	35	24	14	12	25	6	19	6,0	18,0	7,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	28-08	494	1,03	109	53	45	32	24	14	13	27	8	18,5	8,0	20,0	7,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	29-08	494	1,03	104	53	45	32	23	14	13	27	8	18,5	7,5	19,0	7,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Minimum Property																															
Average Property																															
Maximum Property																															
17 1/2" Hole Section: Prehydrated Bentonite / Seawater - Bentonite Swaps																															
4	30-08	933	1,03	104	53	45	32	23	14	13	27	8	18,5	7,5	19,0	7,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	31-08	946	1,20	64	38	27	21	16	7	5	19	11	8	4,0	9,0	7,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	01-09	946	1,20	64	38	27	21	16	7	5	19	11	8	4,0	9,0	7,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Property																															
Average Property																															
Maximum Property																															
12 1/4" Hole Section: Anco 2000 Mud System																															
7	02-09	944	1,15	75	37	26	20	15	6	5	19	11	7,5	6	8	7,8	3	-	85	0,2	1	400	9	-	-	140	5	69	15	-	-
8	03-09	944	1,3	78	37	26	21	15	6	5	19	11	7,5	6	8	7,8	3	-	85	0,2	1	400	13,5	-	-	140	5	272	16	-	-
9	04-09	1100	1,3	64	49	37	29	22	9	8	25	12	12,5	5	6	7,8	2,5	-	68	0,2	1	400	13,5	-	-	140	5	264	57	-	-
10	05-09	1475	1,28	62	52	40	36	26	11	9	26	12	14	8	8,5	8	2,7	-	76	0,1	1	640	13	-	57	140	5	236	43	-	-
11	06-09	1668	1,31	54	58	42	35	27	10	8	28	14	14	5	8	7,5	3,8	-	80	0	0,8	660	15	-	57	160	5	232	93	-	-
12	07-09	1751	1,31	61	61	44	37	28	9	7	31	17	13,5	5	12	9	4,4	-	74	0,6	1,7	400	14,5	-	60	140	5	250	80	-	-
13	08-09	1751	1,34	60	60	44	36	26	8	6	30	16	14	4	10	9	4	-	80	0,3	1,9	500	15	-	75	150	5,5	339	28	-	-
14	09-09	1751	1,31	42	42	30	24	17	4	3	21	12	9	2	5	9	3,6	-	78	0,3	1,9	500	14	-	60	125	4,5	271	44	-	-
15	10-09	1751	1,3	50	44	32	26	19	6	4	22	12	10	2,5	4,5	9	3,8	-	76,5	0,3	1,4	280	14	-	60	145	4,5	244	64	-	-
16	11-09	1751	1,32	50	48	35	27	20	5,5	4	24	13	11	2,5	7	8,8	4	-	76,5	0,25	1,1	280	14	-	60	145	4,5	297	32	-	-
17	12-09	1751	1,3	53	48	34	27	19	5,5	4,5	24	13,5	10,3	3	6	8,5	4,5	-	76,5	0,15	0,6	280	14	-	45	110	4,5	244	64	-	-
Minimum Property																															
Average Property																															
Maximum Property																															
8 1/2" Hole Section: Anco 2000 Mud System																															
18	13-09	1772	1,28	65	37	26	21	15	5	4	19	11	7,5	4	18	9,5	5	-	79	0,37	1,5	220	13	-	37,5	110	5	185	69	-	-
19	14-09	1984	1,25	47	34	23	19	13	3	2	17	11	6	2	10	9	4	-	88	0,1	1	60	13	-	45	130	5	163	62	-	-
20	15-09	2047	1,27	56	45	32	27	20	6	4	23	13	9,5	3	13	9	4	-	84	0,1	0,8	100	13,5	-	52,5	145	5	193	67	-	-
21	16-09	2080	1,28	55	45	32	26	19	6	4	23	13	9,5	3	12	6,5	3,6	-	84	0	0,6	100	13,5	-	52,5	145	5	219	51	-	-
22	17-09	2148	1,26	57	50	36	29	21	6	5	25	14	11	3,5	18	9	3,2	-	84	0,5	1,8	80	14	-	45	150	5	145	110	-	-
23	18-09	2328	1,25	58	49	34	28	21	6	5	25	15	9,5	3	17	9,5	3,9	-	82	0,35	1,4	35	14	-	46,3	140	5	118	131	-	-
24	19-09	2350	1,25	64	50	35	28	21	7	6	25	15	10	3,5	17	9,3	3,6	-	84,5	0,26	1,34	55	14	-	45,5	145	4,9	119	125	-	-
25	20-09	2536	1,3	62	52	36	30	22	8	7	26	16	10	6	20	8,9	3,9	-	79	0,07	1	70	14,9	-	52	135	4,5	207	107	-	-
26	21-09	2673	1,31	66	46	39	29	10	8	33	19	13,5	5	18	8,8	4	-	-	78	0,06	0,9	80	15,1	-	56,5	125	4,2	223	104	-	-
27	22-09	2673	1,3	60	61	43	38	31	10	9	31	18	12,5	4	16	8,7	4,1	-	77,5	0,05	0,8	80	15	-	54,5	125	4,2	201	116	-	-
28	23-09	2673	1,3	62	61	42	39	31	10	9	31	19	11,5	4	16	8,6	4,1	-	77	0,05	0,8	80	15,1	-	54,5	120	4,2	196	123	-	-
Minimum Property																															
Average Property																															
Maximum Property																															

Title: Interpretation report, well NOCS 6610/2-1S		FOA 97-1836-1 29 OKT. 1997 REGISTRERT OLJEDIREKTORATET
Document no.:	Contract no./project no.:	
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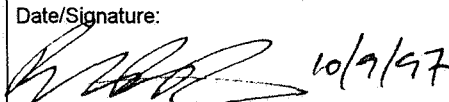
Author(s)/Source(s):
Geolab Nor

Subjects:
Interpretation has been considerably hampered by the presence of polyalkylene glycols (all samples) and base oil (from 2063m RKB and deeper) in the sample extracts. The presence of the base oil was not expected and its origin remains unknown. However, it is present in both drilling mud samples analysed, and contains a full suite of biomarker compounds.

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INTERPRETATION REPORT WELL NOCS 6610/2-1S

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TITLE

Geochemical Analysis of Well NOCS 6610/2-1S

AUTHOR(S)

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GEOLAB PROJECT NO.

62325

DATE

10.06.97.

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REPORT NO./FILE

FRONT PAGE

Chapter 1

Introduction

1.1 General Well Information

The well NOCS 6610/2-1S is located in the Norwegian Sea. The 6610/2 block and adjoining areas are shown in Figure 1.1. The well penetrated the Tertiary Nordland Group and had a TD of 2673 m (RKB) in the Triassic "Red Beds". Depths in tables, figures and in the text are given in RKB unless otherwise specified. Samples from 950 m to 2673 m were used for geochemical analysis.

The aims of the Statoil-designed analytical program were detection/characterisation of possible shows throughout the well and to see if any source rocks were present. The maturity of the rocks in the well was also determined.

The vitrinite reflectance was performed by IFE, all the other analyses presented in this report by Geolab Nor AS. Many of the geochemical results in this well have been affected by the use of glycols in the drill mud and by an oil-based additive below 2063 m. The Rock-Eval data especially are strongly affected. It is strongly recommended that the Rock-Eval data from this well are not used for modelling purpose as the hydrogen indices are strongly affected by the glycols and by the oil-based mud additive.

Six samples were attempted analysed by whole extract GC as they contained too little material for separation into fractions. These six chromatograms are enclosed in this report. However, only contaminant peaks are identifiable in these chromatograms and therefore they are not discussed further in the report. Hence, data could not be tabulated from these six whole GC analysis, therefore Table 13 does not exist in this report.

1.2 Analytical Program

ANALYTICAL PROGRAM:		DATABASE CODE: 8325 O42																
NOCS 6610/2-1S																		
PROJECT: STATOIL NOCS 6610/2-1S																		
Scientist: KAB		Technician: MS																
Client Contact: Richard Patience		Date: 23.05.97																
Sample Depth (metres) and Type	Fractions	HS & Occ Gas	Lithology Description	Leco TOC	RockEval	Therm Ext GC	Pyrolysis GC	Extraction	MPLC & Deasp	Iatroscan	Whole Oil GC	Sat GC Quant.	Aro GC	Sat GCMS Quant.	Aro GCMS	Bulk C Isotope	Vis Kerogen	Vit Reflect
Table Nos:																		
950cS	O42/0001-1	x	x	x														
980cS	O42/0002-1	x	x	x														
1050cS	O42/0003-1	x	x	x	x	x	x				x						x	
1140sS	O42/0004-1	x	x	x														
1190sS	O42/0005-1	x																x
1275sS	O42/0006-1	x	x	x														
1290sS	O42/0007-1	x																x
1340sS	O42/0008-1	x	x	x														
1400sS	O42/0009-1	x																x
1415sS	O42/0010-1	x	x	x														
1475sR	O42/0011-1	x	x	x	x	x		x	x		x	x	x	x	x	x	x	
1495sS	O42/0012-1	x																x
1538cS	O42/0013-1	x	x	x	x	x	x				x						x	
1587sS	O42/0014-1	x																x
1643cS	O42/0015-1	x	x	x														
1647sS	O42/0016-1	x																x
1660.4sS	O42/0017-1	x	x	x	x	x											x	
1680sS	O42/0018-1	x																x
1766cS	O42/0019-1	x	x	x														
1787cS	O42/0020-1	x	x	x														
1814sS	O42/0021-1	x																x
1841cS	O42/0022-1	x	x	x														
1847cS	O42/0023-1	x																x
1892cS	O42/0024-1	x	x	x	x	x	x				x						x	
1938sS	O42/0025-1	x	x	x														
1945sS	O42/0026-1	x																x
1959sS	O42/0027-1	x	x	x	x	x	x				x						x	
1968sS	O42/0028-1	x																x
2003.5sS	O42/0029-1	x	x	x														
2020sS	O42/0030-1	x																x
2046sS	O42/0031-1	x	x	x														
2051.36pR	O42/0054-1	x		x				x	x		x	x	x	x	x			
2053.78pR	O42/0032-1	x	x	x	x	x	x				x						x	
2055.03pR	O42/0055-1	x		x														
2055.27pS	O42/0033-0																	x
2056.42pR	O42/0056-1	x		x														

ANALYTICAL PROGRAM:		DATABASE CODE: 8325 O42	
NOCS 6610/2-1S			
PROJECT: STATOIL NOCS 6610/2-1S			
Scientist: KAB		Technician: MS	
Client Contact: Richard Patience		Date: 23.05.97	

Sample Depth (metres) and Type	Fractions	HS & Occ Gas	Lithology Description	Leco TOC	RockEval	Therm Ext GC	Pyrolysis GC	Extraction	MPLC & Deasp	Iatroscan	Whole Oil GC	Sat GC Quant.	Aro GC	Sat GCMS Quant.	Aro GCMS	Bulk C Isotope	Vis Kerogen	Vit Reflect	Table Nos:
																			3
2061.84pR	O42/0057-1	x		x															
2063.13pR	O42/0058-1	x		x					x	x		x	x	x	x	x			
2064.23pR	O42/0059-1	x		x															
2064.7pR	O42/0060-1	x		x															
2065.13pS	O42/0034-1	x	x	x	x	x		x	x		x	x	x	x	x	x	x		
2067.6pR	O42/0061-1	x		x															
2071.34pS	O42/0035-0																		x
2072.83pR	O42/0062-1	x		x					x	x		x	x	x	x	x			
2073.29pR	O42/0063-1	x		x															
2075.19pR	O42/0064-1	x		x					x	x		x	x	x	x	x			
2077.1pR	O42/0065-1	x		x															
2077.56pR	O42/0066-1	x		x															
2078.3pR	O42/0067-1	x		x															
2125sS	O42/0036-1	x																	x
2165sR	O42/0068-1	x		x															
2236.1sR	O42/0037-1	x	x	x															
2248.5sS	O42/0038-1	x																	x
2307sS	O42/0039-1	x	x	x															
2317.5sS	O42/0040-1	x																	x
2330.09pR	O42/0069-1	x		x					x	x		x	x	x	x	x			
2337.62pR	O42/0070-1	x	x	x															
2344.46pS	O42/0041-1	x	x	x	x	x			x	x		x	x	x	x	x	x	x	
2348.02pS	O42/0042-1	x	x	x															
2356.73pS	O42/0042-0																		x
2356.75pS	O42/0044-1	x	x	x	x	x	x				x							x	
2387.2sS	O42/0045-1	x	x	x															
2462.5sS	O42/0046-1	x																	x
2477.5sR	O42/0047-1	x	x	x															
2537sS	O42/0048-1	x	x	x	x	x			x	x		x	x	x	x	x	x	x	
2570sS	O42/0049-1	x																	x
2590sS	O42/0050-1	x	x	x	x	x			x	x		x	x	x	x	x	x		
2625cS	O42/0071-1	x	x	x															
2650cS	O42/0072-1	x	x	x															
2670cS	O42/0082-0																		x
2673cS	O42/0073-1	x	x	x															
Total		0	67	34	50	12	12	6	10	10	6	10	10	10	10	10	12	23	

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1400.00	swc					0009	
		100	Sh/Clst: brn gy, mic, calc			0009-1L	
1415.00	swc					0010	
	0.59	100	Sh/Clst: brn gy, drk gy, pyr, mic, calc			0010-1L	
1475.00	swc					0011	
	1.91	100	S/Sst : lt gy, glauc, mic			0011-1L	
1495.00	swc					0012	
		100	Sh/Clst: m drk gy, mic, calc			0012-1L	
1538.00						0013	
	2.62	80	Sh/Clst: m gy to drk gy			0013-1L	
		10	S/Sst : w, f, cem, crs, l			0013-2L	
		10	Sltst : brn gy			0013-3L	
		tr	Sh/Clst: lt gn gy			0013-4L	
1587.00	swc					0014	
		100	Sh/Clst: drk gy, brn gy			0014-1L	
1643.00						0015	
	0.88	95	Sh/Clst: m gy to brn gy to gn gy			0015-1L	
		5	S/Sst : w, f, cem, crs, l			0015-2L	
1647.00	swc					0016	
		100	Sh/Clst: m drk gy, calc, pyr, glauc			0016-1L	
1660.40	swc					0017	
	3.08	100	Sh/Clst: brn blk, mic, slt			0017-1L	

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1680.00	swc					0018
			100	Sh/Clst: m bl gy, pyr, mic		0018-1L
1766.00						0019
	0.93	80	Sh/Clst:	m gy to brn gy to gn gy, slt		0019-1L
		10	Cont			0019-2L
		10	Cont	: prp		0019-3L
		tr	Ca	: w, lt brn gy		0019-4L
1787.00						0020
	0.99	80	Sh/Clst:	m gy to drk gy, slt		0020-1L
		10	Ca	: w		0020-4L
		5	Cont			0020-2L
		5	Cont	: prp		0020-3L
1814.00	swc					0021
			100	Sh/Clst: m drk gy, calc, pyr		0021-1L
1841.00						0022
	0.88	90	Sh/Clst:	m gy to drk gy, slt		0022-1L
		5	Cont	: prp		0022-3L
		5	Ca	: w		0022-4L
		tr	Cont			0022-2L
1847.00						0023
		90	Sh/Clst:	m gy to drk gy, slt		0023-1L
		5	Cont	: prp		0023-2L
		5	Ca	: or		0023-3L
1892.00						0024
	1.03	95	Sh/Clst:	m gy to drk gy, slt		0024-1L
		5	Ca	: w, lt gy		0024-3L
		tr	Cont	: prp		0024-2L

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology	description	
1938.00	swc					0025
		0.92	100	Sh/Clst: m drk gy, calc, pyr, mic		0025-1L
1945.00	swc					0026
			100	Sh/Clst: m drk gy, calc, carb, s		0026-1L
1959.00	swc					0027
		0.77	100	Sltst : m gy, cly, glauc, calc		0027-1L
1968.00	swc					0028
			100	Sh/Clst: m gy, calc, glauc		0028-1L
2003.50	swc					0029
		0.83	100	Sh/Clst: m drk gy, calc		0029-1L
2020.00	swc					0030
			100	Sh/Clst: drk gy to ol blk, mic, carb, calc		0030-1L
2046.00	swc					0031
		0.90	100	Sh/Clst: drk gy to ol blk, mic, carb, calc		0031-1L
2051.36	ccp					0054
			100	S/Sst : lt brn to brn gy, glauc, mic		0054-1L
2053.78	ccp					0032
		2.72	100	S/Sst : lt brn to lt brn gy, glauc		0032-1L

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2055.03	ccp					0055
			100	S/Sst : lt brn to brn gy, glauc, mic		0055-1L
2055.27	ccp					0033
			100	No Mat.		0033-1L
2056.42	ccp					0056
			100	S/Sst : lt brn to brn gy, glauc, mic, cly		0056-1L
2061.84	ccp					0057
			100	S/Sst : brn gy to lt brn gy, calc, mic		0057-1L
2063.13	ccp					0058
			100	S/Sst : lt gy		0058-1L
2064.23	ccp					0059
			100	S/Sst : gy pi		0059-1L
2064.70	ccp					0060
			100	S/Sst : lt brn gy, cly, mic		0060-1L
2065.13	ccp					0034
		2.96	80	Sh/Clst: ol blk, mic		0034-1L
			20	S/Sst : lt gy, mic, f		0034-2L
2067.60	ccp					0061
			100	S/Sst : brn gy		0061-1L

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2071.34	ccp					0035
			100	No Mat.		0035-1L
2072.83	ccp					0062
			100	S/Sst : lt brn gy, f, calc, cly, carb, mic		0062-1L
2073.29	ccp					0063
			100	S/Sst : lt brn gy, f, cly, carb, mic		0063-1L
2075.19	ccp					0064
			100	S/Sst : lt brn gy, f, cly, carb, mic		0064-1L
2077.10	ccp					0065
			100	S/Sst : w, f, mic, carb, calc		0065-1L
2077.56	ccp					0066
			100	S/Sst : w, f, mic, carb, cly, calc		0066-1L
2078.30	ccp					0067
			100	S/Sst : w, f, hd, calc, mic, carb		0067-1L
2125.00	swc					0036
			100	Sltst : lt brn gy, mic, carb, calc		0036-1L
2165.00	swc					0068
			100	S/Sst : lt gy, f, mic, carb, calc		0068-1L

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
2236.10	swc					0037
	0.09	100	S/Sst	: lt gy, f, mic, pyr, carb, calc		0037-1L
2248.50	swc					0038
		100	Sh/Clst:	: brn gy, mic, carb, calc, slt		0038-1L
2307.00	swc					0039
	0.72	100	Sltst	: w, pyr, mic, carb, calc		0039-1L
2317.50	swc					0040
		100	Sh/Clst:	: brn blk, mic, carb, slt		0040-1L
2330.09	ccp					0069
		100	S/Sst	: w, calc, mic		0069-1L
2337.62	ccp					0070
	0.03	100	S/Sst	: w, f, calc, mic, carb		0070-1L
2344.46	ccp					0041
	69.00	100	Coal	: blk		0041-1L
2348.02	ccp					0042
	1.23	100	Sh/Clst:	: m brn gy, carb, slt, s, mic		0042-1L
2356.73	ccp					0043
		100	No Mat.			0043-1L

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2356.75	ccp					0044
	4.24	100		Sh/Clst: m brn gy, carb, slt, cly, mic		0044-1L
2387.20	swc					0045
	1.05	100		Sltst : drk gy, calc, mic, carb		0045-1L
2462.50	swc					0046
		100		Sh/Clst: drk brn gy, mic, carb, calc		0046-1L
2477.50	swc					0047
	0.05	100		S/Sst : w, calc		0047-1L
2537.00	swc					0048
	54.60	100		Coal : blk		0048-1L
2570.00	swc					0049
		100		Sh/Clst: brn gy, pyr, mic		0049-1L
2590.00	swc					0050
	0.63	100		Sh/Clst: drk y brn, calc		0050-1L
2625.00						0071
	0.24	60		Sh/Clst: red brn, slt		0071-1L
		25		S/Sst : w to lt gy, calc		0071-2L
		10		Ca : w, chk		0071-3L
		5		Sh/Clst: drk gy, gn gy		0071-4L
2650.00						0072
	0.24	50		Sh/Clst: red brn, slt		0072-1L
		20		S/Sst : w to lt gy, calc		0072-2L
		20		Ca : w, chk		0072-3L
		10		Sh/Clst: m gy, drk gy		0072-4L

Table 3 : Lithology description for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2673.00						0073	
	0.15	50	Sh/Clst: red brn, slt				0073-1L
		20	S/Sst : w to lt gy, calc				0073-2L
		20	Ca : w, chk				0073-3L
		10	Sh/Clst: m gy, drk gy				0073-4L

Table 4 : Thermal Maturity Data for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1050.00	cut Sh/Clst: gy blk to drk gy	-	-	-	-	3.0-3.5	361	0003-1L
1190.00	swc Sh/Clst: m gy to drk gy to ol gy	0.28	19	0.04	-	-	-	0005-1L
1290.00	swc Sh/Clst: gn gy	0.26	1	0.00	-	-	-	0007-1L
1400.00	swc Sh/Clst: brn gy	0.27	20	0.04	-	-	-	0009-1L
1475.00	swc S/Sst : lt gy	-	-	-	-	3.0	415	0011-1L
1495.00	swc Sh/Clst: m drk gy	0.28	20	0.03	-	-	-	0012-1L
1538.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	4.0-4.5	359	0013-1L
1587.00	swc Sh/Clst: drk gy, brn gy	0.25	6	0.04	-	-	-	0014-1L
1647.00	swc Sh/Clst: m drk gy	0.34	7	0.06	-	-	-	0016-1L
1660.40	swc Sh/Clst: brn blk	-	-	-	-	4.5	414	0017-1L
1680.00	swc Sh/Clst: m bl gy	NDP	-	-	-	-	-	0018-1L
1814.00	swc Sh/Clst: m drk gy	0.40	20	0.07	-	-	-	0021-1L
1847.00	cut Sh/Clst: m gy to drk gy	0.37	10	0.03	-	-	-	0023-1L
1892.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	5.0-5.5	362	0024-1L
1945.00	swc Sh/Clst: m drk gy	0.35	11	0.07	-	-	-	0026-1L

Table 4 : Thermal Maturity Data for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1959.00	swc Sltst : m gy	-	-	-	-	5.5(??)	355	0027-1L
1968.00	swc Sh/Clst: m gy	0.43	20	0.07	-	-	-	0028-1L
2020.00	swc Sh/Clst: drk gy to ol blk	0.42	18	0.04	-	-	-	0030-1L
2053.78	ccp S/Sst : lt brn to lt brn gy	-	-	-	-	5.5	422	0032-1L
2055.27	ccp bulk	0.45	24	0.09	-	-	-	0033-0B
2065.13	ccp Sh/Clst: ol blk	-	-	-	-	5.5	426	0034-1L
2071.34	ccp bulk	0.40	20	0.04	-	-	-	0035-0B
2125.00	swc Sltst : lt brn gy	0.40	20	0.03	-	-	-	0036-1L
2248.50	swc Sh/Clst: brn gy	0.41	20	0.04	-	-	-	0038-1L
2317.50	swc Sh/Clst: brn blk	0.33	9	0.06	-	-	-	0040-1L
2344.46	ccp Coal : blk	0.50	22	0.07	-	6.0-6.5(??)	433	0041-1L
2356.73	ccp bulk	0.43	19	0.03	-	-	-	0043-0B
2356.75	ccp Sh/Clst: m brn gy	-	-	-	-	5.0-5.5(??)	355	0044-1L
2462.50	swc Sh/Clst: drk brn gy	0.50	20	0.03	-	-	-	0046-1L
2537.00	swc Coal : blk	0.58	20	0.04	-	5.5-6.0(??)	436	0048-1L

Table 4 : Thermal Maturity Data for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
2570.00	swc	Sh/Clst: brn gy	0.47	14	0.06	-	-	-	0049-1L
2590.00	swc	Sh/Clst: drk y brn	-	-	-	-	6.0	421	0050-1L
2670.00	cut	bulk	0.48	7	0.06	-	-	-	0082-0B

Table 5A: Rock-Eval table for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
950.00	cut		Sltst : brn gy	2.76	7.33	2.61	2.81	1.71	429	153	10.1	0.27	364	0001-1L
980.00	cut		Sh/Clst: gy blk to brn blk	1.08	4.51	3.46	1.30	1.67	270	207	5.6	0.19	368	0002-1L
1050.00	cut		Sh/Clst: gy blk to drk gy	3.26	7.41	4.28	1.73	1.77	419	242	10.7	0.31	361	0003-1L
1140.00	swc		Sltst : ol gy	0.22	1.10	0.79	1.39	0.44	250	180	1.3	0.17	467	0004-1L
1275.00	swc		Sh/Clst: drk gn gy	0.43	1.59	0.44	3.61	0.80	199	55	2.0	0.21	413	0006-1L
1340.00	swc		Sltst : m gy to drk gy	0.17	0.61	0.34	1.79	0.64	95	53	0.8	0.22	402	0008-1L
1415.00	swc		Sh/Clst: brn gy, drk gy	0.27	0.92	0.66	1.39	0.59	156	112	1.2	0.23	420	0010-1L
1475.00	swc		S/Sst : lt gy	2.04	3.09	1.56	1.98	1.91	162	82	5.1	0.40	415	0011-1L
1538.00	cut		Sh/Clst: m gy to drk gy	6.06	8.21	3.24	2.53	2.62	313	124	14.3	0.42	359	0013-1L
1643.00	cut		Sh/Clst: m gy to brn gy to gn gy	2.30	5.74	2.48	2.31	0.88	652	282	8.0	0.29	356	0015-1L
1660.40	swc		Sh/Clst: brn blk	0.81	2.77	1.72	1.61	3.08	90	56	3.6	0.23	414	0017-1L
1766.00	cut		Sh/Clst: m gy to brn gy to gn gy	1.13	4.05	3.22	1.26	0.93	435	346	5.2	0.22	369	0019-1L
1787.00	cut		Sh/Clst: m gy to drk gy	0.26	1.55	4.07	0.38	0.99	157	411	1.8	0.14	369	0020-1L
1841.00	cut		Sh/Clst: m gy to drk gy	1.61	4.06	2.27	1.79	0.88	461	258	5.7	0.28	365	0022-1L
1892.00	cut		Sh/Clst: m gy to drk gy	3.70	4.48	2.92	1.53	1.03	435	283	8.2	0.45	362	0024-1L
1938.00	swc		Sh/Clst: m drk gy	0.31	1.30	0.22	5.91	0.92	141	24	1.6	0.19	423	0025-1L

Table 5A: Rock-Eval table for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1959.00	swc		Sltst : m gy	9.30	1.98	1.49	1.33	0.77	257	194	11.3	0.82	355	0027-1L
2003.50	swc		Sh/Clst: m drk gy	0.64	1.30	1.30	1.00	0.83	157	157	1.9	0.33	351	0029-1L
2046.00	swc		Sh/Clst: drk gy to ol blk	0.79	1.63	1.50	1.09	0.90	181	167	2.4	0.33	429	0031-1L
2051.36	ccp		S/Sst : lt brn to brn gy	3.88	0.98	0.66	1.48	-	-	-	4.9	0.80	419	0054-1L
2053.78	ccp		S/Sst : lt brn to lt brn gy	4.14	6.10	1.01	6.04	2.72	224	37	10.2	0.40	422	0032-1L
2055.03	ccp		S/Sst : lt brn to brn gy	0.96	1.55	1.09	1.42	-	-	-	2.5	0.38	419	0055-1L
2056.42	ccp		S/Sst : lt brn to brn gy	0.89	1.72	1.11	1.55	-	-	-	2.6	0.34	420	0056-1L
2061.84	ccp		S/Sst : brn gy to lt brn gy	0.14	0.51	0.87	0.59	-	-	-	0.6	0.22	376	0057-1L
2063.13	ccp		S/Sst : lt gy	0.28	0.82	0.98	0.84	-	-	-	1.1	0.25	420	0058-1L
2064.23	ccp		S/Sst : gy pi	0.30	0.67	1.08	0.62	-	-	-	1.0	0.31	415	0059-1L
2064.70	ccp		S/Sst : lt brn gy	0.21	0.65	0.90	0.72	-	-	-	0.9	0.24	417	0060-1L
2065.13	ccp		Sh/Clst: ol blk	1.04	8.26	1.03	8.02	2.96	279	35	9.3	0.11	426	0034-1L
2067.60	ccp		S/Sst : brn gy	0.26	0.52	0.81	0.64	-	-	-	0.8	0.33	419	0061-1L
2072.83	ccp		S/Sst : lt brn gy	0.59	1.04	1.07	0.97	-	-	-	1.6	0.36	409	0062-1L
2073.29	ccp		S/Sst : lt brn gy	0.62	1.04	1.42	0.73	-	-	-	1.7	0.37	472	0063-1L
2075.19	ccp		S/Sst : lt brn gy	0.47	0.49	0.99	0.49	-	-	-	1.0	0.49	421	0064-1L

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2077.10	ccp		S/Sst : w	0.45	0.81	0.80	1.01	-	-	-	1.3	0.36	412	0065-1L
2077.56	ccp		S/Sst : w	0.47	0.57	0.85	0.67	-	-	-	1.0	0.45	416	0066-1L
2078.30	ccp		S/Sst : w	0.16	0.08	0.78	0.10	-	-	-	0.2	0.67	401	0067-1L
2165.00	swc		S/Sst : lt gy	1.05	0.25	1.33	0.19	-	-	-	1.3	0.81	358	0068-1L
2236.10	swc		S/Sst : lt gy	1.06	0.28	1.44	0.19	0.09	311	1600	1.3	0.79	347	0037-1L
2307.00	swc		Sltst : w	1.53	1.27	1.50	0.85	0.72	176	208	2.8	0.55	433	0039-1L
2330.09	ccp		S/Sst : w	1.25	0.28	1.41	0.20	-	-	-	1.5	0.82	-	0069-1L
2337.62	ccp		S/Sst : w	0.23	0.25	0.85	0.29	0.03	833	2833	0.5	0.48	517	0070-1L
2344.46	ccp		Coal : blk	5.18	118.88	9.44	12.59	69.00	172	14	124.1	0.04	433	0041-1L
2348.02	ccp		Sh/Clst: m brn gy	0.18	2.05	0.73	2.81	1.23	167	59	2.2	0.08	435	0042-1L
2356.75	ccp		Sh/Clst: m brn gy	6.33	2.64	2.91	0.91	4.24	62	69	9.0	0.71	355	0044-1L
2387.20	swc		Sltst : drk gy	1.73	2.45	1.68	1.46	1.05	233	160	4.2	0.41	433	0045-1L
2477.50	swc		S/Sst : w	0.56	0.09	0.83	0.11	0.05	180	1660	0.7	0.86	352	0047-1L
2537.00	swc		Coal : blk	2.88	89.32	6.61	13.51	54.60	164	12	92.2	0.03	436	0048-1L
2590.00	swc		Sh/Clst: drk y brn	0.33	10.34	2.46	4.20	0.63	1641	390	10.7	0.03	421	0050-1L
2625.00	cut		Sh/Clst: red brn	0.63	1.18	1.56	0.76	0.24	492	650	1.8	0.35	356	0071-1L

Table 5A: Rock-Eval table for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2650.00	cut		Sh/Clst: red brn	0.33	0.77	1.43	0.54	0.24	321	596	1.1	0.30	357	0072-1L
2673.00	cut		Sh/Clst: red brn	0.24	0.52	1.15	0.45	0.15	347	767	0.8	0.32	361	0073-1L

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	0.40	18.10	2.20	8.23	-	-	-	18.5	0.02	420	0109-0B
2.00	std		bulk	0.41	17.73	2.18	8.13	-	-	-	18.1	0.02	422	0110-0B
3.00	std		bulk	0.47	19.56	2.27	8.62	-	-	-	20.0	0.02	420	0112-0B

Table 6 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1050.00	cut	Sh/Clst: gy blk to drk gy	4.39	44.00	44.88	6.74	-	0003-1L
1475.00	swc	S/Sst : lt gy	6.97	27.66	45.16	20.20	-	0011-1L
1538.00	cut	Sh/Clst: m gy to drk gy	6.53	36.03	43.50	13.94	-	0013-1L
1660.40	swc	Sh/Clst: brn blk	15.05	26.02	49.55	9.38	-	0017-1L
1892.00	cut	Sh/Clst: m gy to drk gy	4.62	33.86	53.82	7.70	-	0024-1L
1959.00	swc	Sltst : m gy	4.00	41.13	43.19	11.68	-	0027-1L
2053.78	ccp	S/Sst : lt brn to lt brn gy	7.65	16.31	40.26	35.78	-	0032-1L
2065.13	ccp	Sh/Clst: ol blk	6.87	15.09	33.81	44.24	-	0034-1L
2344.46	ccp	Coal : blk	16.77	20.82	30.20	32.21	-	0041-1L
2356.75	ccp	Sh/Clst: m brn gy	4.16	13.14	29.61	53.09	-	0044-1L
2537.00	swc	Coal : blk	15.81	20.88	29.40	33.92	-	0048-1L
2590.00	swc	Sh/Clst: drk y brn	3.19	42.75	49.23	4.83	-	0050-1L

Table 7: Visual Kerogen Composition Data for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	Amorphous			Algal/Phytoplankton					Herbaceous				Woody				Coaly			SCI	Sample
			AM%	FA	HA	AP%	Cy	Ta	Bo	Di	De	HE%	SP	Cu	De	WO%	FL	NF	De	CO%	FS		
1050.00	cut	Sh/Clst	10	*	*	15	*		*	*	25	**	*	*	35		*	*	15	*	*	3.0-3.5	0003-1L
1475.00	swc	S/Sst	50	*	*	5	*		*	*	15	*	*	*	25		*	*	5	*	*	3.0	0011-1L
1538.00	cut	Sh/Clst	15	*	*	5	*		*	*	35	**	*	*	40		*	*	5	*	*	4.0-4.5	0013-1L
1660.40	swc	Sh/Clst	20	*	*	TR	*		*		15	*	*	*	65		*	*	TR	*	*	4.5	0017-1L
1892.00	cut	Sh/Clst	10	*	*	5	*		*	*	15	**	*	*	40		**	*	30	**	*	5.0-5.5	0024-1L
1959.00	swc	Sltst	75	*	*	TR	*		*	*	TR	*		*	5		*	**	20	*	**	5.5(??)	0027-1L
2053.78	ccp	S/Sst	TR		*	5	*		*	*	15	*	*	*	55		**	*	25	**	*	5.5	0032-1L
2065.13	ccp	Sh/Clst	20		*	5	*	*			35	**	**	*	25		**	*	15	**	*	5.5	0034-1L
2344.46	ccp	Coal	TR		*	TR	*				5	*	*	*	65		**	*	30	**	*	6.0-6.5(??)	0041-1L
2356.75	ccp	Sh/Clst	55	*	*	5	*		?	*	10	*	**	*	25		*	*	5	*	*	5.0-5.5(??)	0044-1L
2537.00	swc	Coal	TR		*	TR	*				10	*	*	*	70		**	*	20	**	*	5.5-6.0(??)	0048-1L
2590.00	swc	Sh/Clst	50		*	TR	*		*		5	*	*	*	20		*	**	25	*	**	6.0	0050-1L

Table 8 a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6610/2-1S

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
1475.00	swc	S/Sst : lt	1.8	19.9	0.8	0.3	1.5	17.4	1.1	18.8	0.72	0011-1L
2051.36	ccp	S/Sst : lt	10.5	50.2	32.6	7.6	1.0	9.0	40.2	10.0	0.51	0054-1L
2063.13	ccp	S/Sst : lt	11.9	24.4	3.2	2.3	1.1	17.9	5.4	19.0	0.17	0058-1L
2065.13	ccp	Sh/Clst: ol	10.5	10.5	2.5	2.7	2.1	3.2	5.2	5.3	3.09	0034-1L
2072.83	ccp	S/Sst : lt	11.8	55.7	6.7	5.8	8.9	34.3	12.5	43.2	1.05	0062-1L
2075.19	ccp	S/Sst : lt	10.6	55.2	4.0	2.7	20.5	28.0	6.7	48.5	0.76	0064-1L
2330.09	ccp	S/Sst : w	10.9	25.4	0.6	1.0	1.9	22.0	1.5	23.9	0.15	0069-1L
2344.46	ccp	Coal : bl	3.3	32.2	2.3	6.4	9.7	13.8	8.7	23.5	68.80	0041-1L
2537.00	swc	Coal : bl	0.3	10.4	0.4	1.5	6.3	2.3	1.9	8.5	55.00	0048-1L
2590.00	swc	Sh/Clst: dr	9.7	210.5	6.2	5.1	11.0	188.3	11.2	199.3	4.25	0050-1L

Table 8 b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1475.00	swc	S/Sst : lt	11306	454	153	829	9869	607	10698	0011-1L
2051.36	ccp	S/Sst : lt	4785	3106	723	95	859	3830	955	0054-1L
2063.13	ccp	S/Sst : lt	2048	264	191	92	1500	455	1592	0058-1L
2065.13	ccp	Sh/Clst: ol	1000	235	261	201	300	497	502	0034-1L
2072.83	ccp	S/Sst : lt	4728	572	490	755	2910	1062	3665	0062-1L
2075.19	ccp	S/Sst : lt	5207	375	255	1933	2642	631	4576	0064-1L
2330.09	ccp	S/Sst : w	2319	52	87	173	2005	140	2178	0069-1L
2344.46	ccp	Coal : bl	9817	692	1960	2957	4207	2652	7164	0041-1L
2537.00	swc	Coal : bl	37142	1464	5178	22357	8142	6642	30500	0048-1L
2590.00	swc	Sh/Clst: dr	21790	636	523	1134	19495	1160	20630	0050-1L

Table 8 c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1475.00	swc	S/Sst : lt	1570.39	63.13	21.31	115.21	1370.74	84.44	1485.95	0011-1L
2051.36	ccp	S/Sst : lt	938.34	609.17	141.87	18.69	168.60	751.04	187.29	0054-1L
2063.13	ccp	S/Sst : lt	1205.12	155.58	112.61	54.33	882.60	268.19	936.93	0058-1L
2065.13	ccp	Sh/Clst: ol	32.36	7.63	8.47	6.52	9.74	16.10	16.26	0034-1L
2072.83	ccp	S/Sst : lt	450.32	54.49	46.73	71.95	277.14	101.22	349.10	0062-1L
2075.19	ccp	S/Sst : lt	685.20	49.40	33.64	254.47	347.69	83.04	602.16	0064-1L
2330.09	ccp	S/Sst : w	1546.42	35.31	58.45	115.68	1336.99	93.76	1452.66	0069-1L
2344.46	ccp	Coal : bl	14.27	1.01	2.85	4.30	6.12	3.86	10.41	0041-1L
2537.00	swc	Coal : bl	67.53	2.66	9.42	40.65	14.81	12.08	55.45	0048-1L
2590.00	swc	Sh/Clst: dr	512.73	14.98	12.32	26.70	458.73	27.30	485.42	0050-1L

Table 8 d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
1475.00	swc	S/Sst : lt	4.02	1.36	7.34	87.29	100.00	5.38	94.62	-	-	0011-1L
2051.36	ccp	S/Sst : lt	64.92	15.12	1.99	17.97	100.00	80.04	19.96	1.16	1.00	0054-1L
2063.13	ccp	S/Sst : lt	12.91	9.34	4.51	73.24	100.00	22.25	77.75	1.11	1.00	0058-1L
2065.13	ccp	Sh/Clst: ol	23.59	26.17	20.15	30.09	100.00	49.76	50.24	1.66	1.00	0034-1L
2072.83	ccp	S/Sst : lt	12.10	10.38	15.98	61.54	100.00	22.48	77.52	0.89	1.00	0062-1L
2075.19	ccp	S/Sst : lt	7.21	4.91	37.14	50.74	100.00	12.12	87.88	0.90	1.00	0064-1L
2330.09	ccp	S/Sst : w	2.28	3.78	7.48	86.46	100.00	6.06	93.94	1.03	1.00	0069-1L
2344.46	ccp	Coal : bl	7.05	19.97	30.12	42.86	100.00	27.02	72.98	1.09	1.00	0041-1L
2537.00	swc	Coal : bl	3.94	13.94	60.19	21.92	100.00	17.88	82.12	-	-	0048-1L
2590.00	swc	Sh/Clst: dr	2.92	2.40	5.21	89.47	100.00	5.33	94.67	-	-	0050-1L

Table 8 e: MPLC Bulk Composition: Ratios for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
1475.00	swc	S/Sst : lt	2.96	0.06	0.08	0011-1L
2051.36	ccp	S/Sst : lt	4.29	4.01	0.11	0054-1L
2063.13	ccp	S/Sst : lt	1.38	0.29	0.06	0058-1L
2065.13	ccp	Sh/Clst: ol	0.90	0.99	0.67	0034-1L
2072.83	ccp	S/Sst : lt	1.17	0.29	0.26	0062-1L
2075.19	ccp	S/Sst : lt	1.47	0.14	0.73	0064-1L
2330.09	ccp	S/Sst : w	0.60	0.06	0.09	0069-1L
2344.46	ccp	Coal : bl	0.35	0.37	0.70	0041-1L
2537.00	swc	Coal : bl	0.28	0.22	2.75	0048-1L
2590.00	swc	Sh/Clst: dr	1.22	0.06	0.06	0050-1L

Table 8F: Iatroscan TLC Bulk Composition: Absolute yields in mg of EOM for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	Rock ex	EOM	Sat HC	Aro HC	NSO	Asp	HC	Non-HC	Sample
1475.00	swc	S/Sst	1.76	19.90	0.41	0.00	18.03	1.46	0.41	19.49	0011-1L
2051.36	ccp	S/Sst	11.44	62.50	43.35	7.26	9.76	2.13	50.61	11.89	0054-1L
2063.13	ccp	S/Sst	11.02	21.50	3.59	1.83	14.43	1.65	5.42	16.08	0058-1L
2065.13	ccp	Sh/Clst	9.16	21.60	1.21	4.07	7.41	8.91	5.28	16.32	0034-1L
2072.83	ccp	S/Sst	10.52	48.70	8.92	5.98	24.79	9.00	14.90	33.80	0062-1L
2075.19	ccp	S/Sst	13.53	68.00	6.10	3.73	32.17	26.00	9.83	58.17	0064-1L
2330.09	ccp	S/Sst	10.35	32.50	0.54	0.00	27.37	4.59	0.54	31.96	0069-1L
2344.46	ccp	Coal	5.12	99.60	2.71	18.94	15.02	62.93	21.65	77.95	0041-1L
2537.00	swc	Coal	0.28	10.40	0.42	1.01	2.71	6.26	1.43	8.97	0048-1L
2590.00	swc	Sh/Clst	9.66	210.50	10.84	1.65	187.05	10.96	12.49	198.01	0050-1L

Table 8G: Iatroscan TLC Bulk Composition: Rel. percentages of sep. fractions for well NOCS 6610/2-1S

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>
1475.00	swc	S/Sst	2.05	-	90.60	7.34	100.00	2.05	97.95	0.26	1.00	0011-1L
2051.36	ccp	S/Sst	69.36	11.61	15.62	3.41	100.00	80.97	19.03	0.63	1.00	0054-1L
2063.13	ccp	S/Sst	16.70	8.49	67.12	7.69	100.00	25.19	74.81	0.42	1.00	0058-1L
2065.13	ccp	Sh/Clst	5.62	18.84	34.31	41.24	100.00	24.45	75.55	0.42	1.00	0034-1L
2072.83	ccp	S/Sst	18.32	12.28	50.91	18.48	100.00	30.61	69.39	0.41	1.00	0062-1L
2075.19	ccp	S/Sst	8.97	5.48	47.31	38.24	100.00	14.45	85.55	0.36	1.00	0064-1L
2330.09	ccp	S/Sst	1.66	-	84.22	14.13	100.00	1.66	98.34	0.25	1.00	0069-1L
2344.46	ccp	Coal	2.72	19.02	15.08	63.18	100.00	21.74	78.26	0.66	1.00	0041-1L
2537.00	swc	Coal	4.07	9.71	26.02	60.19	100.00	13.79	86.21	0.27	1.00	0048-1L
2590.00	swc	Sh/Clst	5.15	0.78	88.86	5.21	100.00	5.93	94.07	0.26	1.00	0050-1L

Table 9A: Quantitative Analysis of Saturated Fraction for well NOCS 6610/2-1S

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
1475.00m	2.76	7.74	3.15	10.77	5.79	9.99	3.49	7.77	8.13	5.83	4.82	4.08	3.27	2.87	2.41	2.19	1.19	1.93	1.11	1.78	0.62	0.67	0.00
2051.36m	4.59	9.81	4.57	15.20	11.63	17.32	7.42	19.75	16.94	15.04	14.01	12.36	11.13	9.31	6.82	5.39	4.25	3.61	2.49	1.68	1.20	1.40	1.26
2063.13m	2.06	3.21	2.05	3.61	4.04	2.65	1.72	1.36	1.21	1.06	0.93	0.84	0.72	0.63	0.53	0.47	0.41	0.41	0.36	0.34	0.26	0.27	0.00
2065.13m	49.51	50.35	14.45	28.79	25.11	11.71	7.11	5.53	5.09	4.36	4.03	4.43	3.68	4.87	3.11	4.50	2.45	3.62	1.41	1.67	0.73	1.47	0.43
2072.83m	3.14	3.91	1.81	3.13	3.20	1.85	0.94	0.89	0.72	0.61	0.51	0.47	0.40	0.36	0.32	0.32	0.39	0.49	0.68	0.27	0.32	0.52	0.65
2075.19m	1.05	1.35	0.77	1.26	1.59	0.99	0.59	0.64	0.67	0.67	0.62	0.59	0.53	0.47	0.45	0.43	0.57	0.80	0.57	0.58	0.60	0.92	1.29
2330.09m	1.79	5.62	3.71	7.78	7.91	5.99	3.32	3.42	2.70	2.14	1.80	1.45	1.48	1.14	0.92	0.85	0.73	0.71	0.65	0.00	0.00	0.00	0.00
2344.46m	24.14	23.41	10.77	15.22	41.09	9.78	5.66	9.11	6.84	7.73	8.73	11.41	9.45	15.40	6.72	8.00	3.16	3.83	1.77	2.25	0.84	1.80	0.00
2537.00m	1.29	7.21	4.72	14.75	18.21	16.52	6.64	16.23	13.51	12.31	11.07	11.13	9.10	11.19	7.12	7.94	4.24	5.36	1.96	2.67	0.65	1.77	0.00
2590.00m	11.26	13.65	4.40	16.45	11.14	13.94	6.04	8.16	5.64	3.88	3.21	3.32	3.33	3.90	3.42	3.48	2.40	2.27	1.55	1.33	0.63	0.60	0.00

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane/nC17	Phytane	CPI1	nC17	Sample
			nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
1475.00	swc	S/Sst : lt gy	0.54	1.66	1.54	0.35	1.37	0.83	0011-1L
2051.36	ccp	S/Sst : lt brn to brn gy	0.77	1.57	1.78	0.43	1.08	0.74	0054-1L
2063.13	ccp	S/Sst : lt gy	1.12	2.35	1.73	0.65	1.05	0.88	0058-1L
2065.13	ccp	Sh/Clst: ol blk	0.87	3.53	1.44	0.61	1.64	0.86	0034-1L
2072.83	ccp	S/Sst : lt brn gy	1.02	3.41	2.02	0.51	0.81	0.91	0062-1L
2075.19	ccp	S/Sst : lt brn gy	1.26	2.69	2.12	0.60	1.06	0.75	0064-1L
2330.09	ccp	S/Sst : w	1.02	2.38	1.84	0.55	0.95	0.90	0069-1L
2344.46	ccp	Coal : blk	2.70	7.26	4.67	0.58	1.88	0.66	0041-1L
2537.00	swc	Coal : blk	1.23	2.74	3.07	0.40	1.58	0.65	0048-1L
2590.00	swc	Sh/Clst: drk y brn	0.68	1.84	1.56	0.43	1.20	0.83	0050-1L

Table 9Ca: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
1475.00	swc	S/Sst : lt gy	-	-	-	-	-	-	-	-	-	-	0011-1L
2051.36	ccp	S/Sst : lt brn to brn gy	-	-	-	-	-	-	-	-	-	-	0054-1L
2063.13	ccp	S/Sst : lt gy	-	-	-	2.99	1.02	1.37	1.01	-	-	-	0058-1L
2065.13	ccp	Sh/Clst: ol blk	1.09	3.29	0.36	1.25	0.70	0.74	0.82	0.34	7.36	2.42	0034-1L
2072.83	ccp	S/Sst : lt brn gy	-	-	-	-	3.58	-	2.55	-	-	-	0062-1L
2075.19	ccp	S/Sst : lt brn gy	-	-	-	-	3.19	0.66	2.31	-	-	-	0064-1L
2330.09	ccp	S/Sst : w	-	-	-	-	-	-	-	-	-	-	0069-1L
2344.46	ccp	Coal : blk	1.71	2.62	-	1.03	0.50	0.56	0.70	-	-	-	0041-1L
2537.00	swc	Coal : blk	-	-	-	0.74	0.53	0.55	0.72	-	-	-	0048-1L
2590.00	swc	Sh/Clst: drk y brn	-	-	-	0.86	0.54	0.62	0.72	-	-	-	0050-1L

Table 9Cb: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
1475.00	swc	S/Sst : lt gy	-	-	0011-1L
2051.36	ccp	S/Sst : lt brn to brn gy	-	-	0054-1L
2063.13	ccp	S/Sst : lt gy	0.60	0.40	0058-1L
2065.13	ccp	Sh/Clst: ol blk	0.48	0.26	0034-1L
2072.83	ccp	S/Sst : lt brn gy	0.80	-	0062-1L
2075.19	ccp	S/Sst : lt brn gy	0.82	0.08	0064-1L
2330.09	ccp	S/Sst : w	1.00	0.19	0069-1L
2344.46	ccp	Coal : blk	0.38	0.21	0041-1L
2537.00	swc	Coal : blk	0.33	0.17	0048-1L
2590.00	swc	Sh/Clst: drk y brn	0.40	0.23	0050-1L

Table 10A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6610/2-1S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
1475.00	swc	S/Sst	-28.79	-27.89	-25.75	-29.19	-27.93	-26.16	0011-1
2051.36	ccp	S/Sst	-28.22	-27.81	-27.59	-28.12	-27.71	-	0054-1
2063.13	ccp	S/Sst	-28.33	-28.40	-28.09	-28.16	-27.50	-	0058-1
2065.13	ccp	Sh/Clst	-26.06	-28.25	-26.62	-26.85	-25.90	-25.23	0034-1
2072.83	ccp	S/Sst	-28.04	-28.52	-28.01	-27.85	-26.56	-	0062-1
2075.19	ccp	S/Sst	-26.83	-28.57	-28.19	-27.45	-25.74	-	0064-1
2330.09	ccp	S/Sst	-27.89	-27.21	-28.34	-28.54	-25.87	-	0069-1
2344.46	ccp	Coal	-25.65	-27.97*	-25.99	-27.23	-25.47	-24.21	0041-1
2537.00	swc	Coal	-25.08	-27.33	-25.33	-26.31	-25.38	-24.42	0048-1
2590.00	swc	Sh/Clst	-28.77	-27.64	-27.19	-28.70	-26.96	-	0050-1

* Uncertain value.

Table 10B: Tabulation of cv values from carbon isotope data for well NOCS 6610/2-1S

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>
1475.00	swc	S/Sst	-27.89	-25.75	1.75	0011-1
2051.36	ccp	S/Sst	-27.81	-27.59	-2.54	0054-1
2063.13	ccp	S/Sst	-28.40	-28.09	-2.16	0058-1
2065.13	ccp	Sh/Clst	-28.25	-26.62	0.73	0034-1
2072.83	ccp	S/Sst	-28.52	-28.01	-1.68	0062-1
2075.19	ccp	S/Sst	-28.57	-28.19	-1.95	0064-1
2330.09	ccp	S/Sst	-27.21	-28.34	-5.72	0069-1
2344.46	ccp	Coal	-27.97	-25.99	1.42	0041-1
2537.00	swc	Coal	-27.33	-25.33	1.26	0048-1
2590.00	swc	Sh/Clst	-27.64	-27.19	-2.08	0050-1

Table 11a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 6610/2-1S

Page: 1

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
1475.00	S/Sst	1.41	0.58	0.27	-	-	-	9.06	-	0.90	-	1.00	-	-	46.75	0011-1
2051.36	S/Sst	0.35	0.26	0.12	0.30	0.23	0.19	0.07	0.23	0.07	0.17	0.91	0.24	0.11	59.64	0054-1
2063.13	S/Sst	1.75	0.64	0.24	0.61	0.38	0.06	0.07	0.11	0.07	-	0.85	0.39	0.19	51.48	0058-1
2065.13	Sh/Clst	5.90	0.86	0.22	0.47	0.32	0.08	0.56	1.20	0.36	-	0.75	0.36	0.43	25.46	0034-1
2072.83	S/Sst	1.22	0.55	0.11	0.40	0.29	0.14	0.09	0.22	0.08	-	0.87	0.29	0.16	55.25	0062-1
2075.19	S/Sst	1.07	0.52	0.14	0.50	0.33	0.20	0.11	0.23	0.10	0.02	0.87	0.35	0.17	55.14	0064-1
2330.09	S/Sst	1.57	0.61	0.20	0.65	0.40	0.08	0.07	0.11	0.07	0.07	0.85	0.40	0.19	55.15	0069-1
2344.46	Coal	151.48	0.99	0.43	0.78	0.44	0.03	-	-	-	0.02	0.67	0.44	0.48	45.92	0041-1
2537.00	Coal	56.24	0.98	0.39	1.94	0.66	0.02	-	-	-	0.01	0.67	0.64	0.41	54.13	0048-1
2590.00	Sh/Clst	7.91	0.89	0.38	0.71	0.42	0.03	0.08	0.11	0.07	0.05	0.74	0.44	0.41	54.57	0050-1

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: $24/3 / 30a\beta$

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 6610/2-1S

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>
1475.00	S/Sst	0.30	25.53	54.56	0.63	0.70	0.33	0.20	0.38	0.34	0.81	0011-1
2051.36	S/Sst	0.80	45.98	76.04	1.25	0.78	0.49	0.33	0.61	0.85	2.94	0054-1
2063.13	S/Sst	0.51	44.51	69.42	1.24	0.72	0.39	0.27	0.53	0.80	2.05	0058-1
2065.13	Sh/Clst	0.40	9.09	51.98	0.33	0.86	0.43	0.35	0.35	0.10	0.60	0034-1
2072.83	S/Sst	0.34	38.69	77.58	0.44	0.82	0.05	0.03	0.63	0.63	2.82	0062-1
2075.19	S/Sst	0.40	32.62	74.06	0.57	0.81	0.07	0.05	0.59	0.48	2.12	0064-1
2330.09	S/Sst	0.39	44.59	70.21	0.78	0.73	0.25	0.17	0.54	0.80	2.13	0069-1
2344.46	Coal	0.31	14.31	57.06	0.23	0.82	0.14	0.11	0.40	0.17	0.78	0041-1
2537.00	Coal	0.33	25.29	41.79	0.39	0.59	0.10	0.09	0.26	0.34	0.48	0048-1
2590.00	Sh/Clst	0.45	25.44	58.38	0.86	0.73	0.29	0.22	0.41	0.34	0.94	0050-1

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

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	
1475.00	S/Sst	0.0 0.0 117.9	0.0 0.0 69.8	0.0 0.0 79.5	0.0 0.0 39.1	0.0 0.0 30.3	130.9 500.0 0.0	184.3 0.0 0.0	4530.5 0.0 0.0	249.6 134.3 0.0	0011-1
2051.36	S/Sst	478.9 711.4 480.5	407.9 761.1 476.3	256.8 460.6 322.3	337.9 98.4 247.5	166.9 0.0 172.2	983.6 2364.4 195.5	339.5 231.3 98.7	164.6 0.0 120.8	263.9 723.7 0.0	0054-1
2063.13	S/Sst	151.5 495.2 206.7	0.0 164.6 170.5	67.9 49.5 160.7	88.4 111.9 187.4	60.7 0.0 135.2	174.1 808.4 148.4	304.9 140.0 131.2	56.5 0.0 196.4	108.8 266.8 121.9	0058-1
2065.13	Sh/Clst	656.2 4665.8 6418.5	0.0 999.3 809.6	229.9 786.9 2370.4	777.1 2947.2 198.7	0.0 0.0 554.3	642.3 10022.7 134.9	3791.6 3331.4 374.5	5582.4 0.0 0.0	486.6 3592.3 0.0	0034-1
2072.83	S/Sst	0.0 2240.2 1537.5	0.0 1091.1 1569.4	0.0 773.9 1271.2	92.3 405.9 1466.0	0.0 0.0 1137.4	610.0 5540.9 1113.7	746.0 805.8 792.4	489.7 0.0 1017.3	2777.0 2125.1 671.6	0062-1

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28a β	25nor30a β	Sample
		29a β	29Ts	30d	29Ba	300	30a β	30Ba	30G	31a β S	
		31a β R	32a β S	32a β R	33a β S	33a β R	34a β S	34a β R	35a β S	35a β R	
2075.19	S/Sst	135.1 2564.0 1306.6	81.9 1234.2 1315.4	0.0 1037.8 1070.1	171.5 576.7 1011.3	0.0 0.0 741.1	906.8 5093.0 732.2	971.9 749.1 503.4	585.6 0.0 574.2	3141.5 1791.0 324.5	0064-1
2330.09	S/Sst	102.2 457.6 145.7	48.7 167.1 88.2	38.3 54.0 71.7	53.3 98.4 54.7	22.9 0.0 39.0	129.5 700.0 25.6	202.6 122.1 26.5	51.1 0.0 25.7	79.8 157.6 22.6	0069-1
2344.46	Coal	4349.9 1000126.0 512630.2	25085.1 0.0 164542.3	1118.7 32638.4 193744.9	115836.1 471072.4 38356.4	0.0 0.0 48119.7	9586.5 1280531.0 14118.9	1452200.0 616564.4 17443.8	0.0 0.0 2251.5	0.0 642114.8 3324.0	0041-1
2537.00	Coal	182.3 13878.4 2402.9	101.5 0.0 1678.1	51.5 114.9 1422.2	584.9 5101.6 266.7	34.2 0.0 198.4	119.3 7150.1 97.0	6711.1 3447.6 67.2	0.0 0.0 23.8	0.0 3416.7 0.0	0048-1
2590.00	Sh/Clst	732.0 5634.7 2444.5	384.4 806.1 1174.4	219.1 266.5 977.7	831.5 2853.2 337.0	165.0 0.0 263.8	831.6 7935.0 140.1	6578.8 2755.4 109.5	632.3 0.0 0.0	339.4 3325.5 0.0	0050-1

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daR	27daS	28d β S	28d β R	28daR*	Sample
		29d β S*	28daS*	27aaR	29d β R	29daR	28aaS	29daS*	28 β BS		
		28aaR	29aaS	29 β BR	29 β BS	29aaR					
1475.00	S/Sst	196.8 111.8 214.6	81.0 267.6 91.9	153.9 351.8 122.4	127.2 251.6 93.8	55.3 367.4 268.1	211.4 111.0	72.5 141.0	110.1 110.5	129.8	0011-1
2051.36	S/Sst	621.0 981.5 0.0	262.1 452.8 163.3	1409.0 352.0 293.8	671.8 669.5 269.7	408.9 213.2 191.8	290.4 103.1	592.9 355.1	397.4 292.2	370.3	0054-1
2063.13	S/Sst	137.0 99.9 68.5	56.6 78.4 63.5	157.2 152.1 83.0	123.1 86.1 78.8	57.9 35.6 79.1	58.1 41.4	84.6 97.3	74.6 102.5	95.2	0058-1
2065.13	Sh/Clst	1959.4 1453.2 352.4	560.1 341.5 196.9	592.6 901.9 749.6	398.5 1249.4 422.4	204.8 757.3 1968.4	217.1 199.9	358.5 764.1	279.9 277.8	436.9	0034-1
2072.83	S/Sst	66.2 313.7 246.2	26.5 218.5 257.9	164.2 315.0 557.7	171.9 303.3 595.3	81.8 190.0 408.6	95.5 158.0	116.0 370.5	104.7 432.7	188.5	0062-1

* 28daR coel with 27aaS, 29d β S coel with 27 β BR, 28daS coel with 27 β BS, 29daS coel with 28 β BR

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	29BSR	29BS	29aaR					
2075.19	S/Sst	86.4	55.3	352.5	254.4	154.7	156.6	176.6	177.5	347.2	0064-1
		478.7	336.3	521.0	451.2	244.2	153.4	427.8	465.9		
		206.4	247.0	479.8	601.2	510.3					
2330.09	S/Sst	58.1	22.4	74.2	53.0	21.7	26.8	47.1	38.6	64.1	0069-1
		63.4	47.6	115.3	67.5	28.4	43.7	67.2	69.2		
		51.4	48.3	67.2	60.4	60.0					
2344.46	Coal	9610.4	2323.8	5103.7	11110.4	3746.1	0.0	15689.7	7593.0	8925.1	0041-1
		34198.9	4484.5	11206.1	25144.1	11179.8	4430.1	17827.4	8483.2		
		10074.5	6063.0	18132.8	10014.8	36300.5					
2537.00	Coal	173.4	54.0	98.1	76.2	30.9	31.9	72.9	50.1	87.5	0048-1
		227.6	0.0	201.3	188.3	64.5	150.1	132.8	71.1		
		138.0	375.6	397.5	135.6	1109.6					
2590.00	Sh/Clst	462.1	213.0	588.8	250.9	153.0	188.2	269.2	200.7	321.1	0050-1
		508.2	334.9	705.3	386.1	195.1	185.7	291.2	226.0		
		370.4	241.6	403.9	262.2	708.2					

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

Table 11e: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Lithology	27 β BR	27 β BS	28 β BR	28 β BS	29 β BR	29 β BS	30 β BR	30 β BS	Sample
1475.00	S/Sst	30.3	110.8	108.1	115.1	141.5	176.2	441.7	479.1	0011-1
2051.36	S/Sst	478.4	401.5	301.8	338.0	328.9	343.3	94.6	105.8	0054-1
2063.13	S/Sst	112.8	63.7	81.5	102.5	99.4	101.7	24.2	23.3	0058-1
2065.13	Sh/Clst	450.1	240.0	347.4	312.9	719.3	559.0	43.5	43.0	0034-1
2072.83	S/Sst	261.9	255.0	313.5	405.7	481.4	634.2	153.3	197.4	0062-1
2075.19	S/Sst	406.5	378.1	467.5	524.7	577.1	710.1	208.8	240.6	0064-1
2330.09	S/Sst	68.5	46.6	55.4	76.4	79.0	74.0	18.4	20.8	0069-1
2344.46	Coal	9795.5	760.6	5698.2	4979.2	15363.1	11623.6	0.0	0.0	0041-1
2537.00	Coal	81.6	62.6	89.2	96.7	290.7	149.7	0.0	45.7	0048-1
2590.00	Sh/Clst	406.5	338.8	270.1	248.8	431.7	355.0	44.5	85.1	0050-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aß</u>	<u>25nor30aß</u>	<u>Sample</u>
1475.00	S/Sst	12264.5	153.5	0011-1
2051.36	S/Sst	267.1	281.0	0054-1
2063.13	S/Sst	109.2	99.0	0058-1
2065.13	Sh/Clst	9012.5	301.2	0034-1
2072.83	S/Sst	1116.8	2218.1	0062-1
2075.19	S/Sst	1731.8	2646.6	0064-1
2330.09	S/Sst	142.0	76.5	0069-1
2344.46	Coal	0.0	0.0	0041-1
2537.00	Coal	0.0	0.0	0048-1
2590.00	Sh/Clst	1018.5	253.7	0050-1

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 6610/2-1S

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	
1475.00	S/Sst	0.0 0.0 26205.6	0.0 0.0 15522.3	0.0 0.0 17683.3	0.0 0.0 8700.1	0.0 0.0 6727.0	29105.0 111162.5 0.0	40983.3 0.0 0.0	1007328.4 0.0 0.0	55501.4 29865.4 0.0	0011-1
2051.36	S/Sst	31463.1 46740.9 31567.3	26795.6 50006.2 31291.5	16870.3 30258.7 21177.4	22200.4 6464.0 16259.1	10965.1 0.0 11315.4	64619.9 155336.2 12846.1	22307.0 15198.4 6482.9	10812.0 0.0 7939.4	17336.5 47545.8 0.0	0054-1
2063.13	S/Sst	11335.4 37049.5 15462.0	0.0 12316.9 12754.4	5080.6 3706.2 12022.2	6616.2 8373.8 14017.0	4543.9 0.0 10112.0	13024.8 60477.0 11101.1	22807.0 10475.2 9813.7	4224.0 0.0 14689.8	8139.0 19956.6 9116.5	0058-1
2065.13	Sh/Clst	62929.9 447446.5 615534.4	0.0 95835.6 77637.5	22044.0 75459.6 227319.0	74520.4 282637.5 19057.2	0.0 0.0 53159.3	61598.0 961175.9 12933.0	363614.4 319481.5 35911.7	535352.1 0.0 0.0	46662.1 344503.8 0.0	0034-1
2072.83	S/Sst	0.0 230566.0 158249.8	0.0 112294.9 161528.7	0.0 79656.8 130841.3	9497.4 41775.1 150885.8	0.0 0.0 117068.5	62778.6 570284.6 114624.9	76783.7 82933.6 81554.7	50403.7 0.0 104705.6	285818.4 218726.0 69124.8	0062-1

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	
2075.19	S/Sst	12752.6	7732.1	0.0	16193.7	0.0	85622.3	91765.0	55288.3	296613.9	0064-1
		242083.1	116533.2	97984.8	54455.2	0.0	480872.8	70725.5	0.0	169102.2	
		123369.1	124198.6	101041.1	95488.8	69969.8	69128.4	47531.8	54212.6	30643.2	
2330.09	S/Sst	23026.7	10985.1	8638.1	12017.8	5151.9	29180.5	45671.3	11527.9	17997.4	0069-1
		103141.8	37668.5	12180.1	22182.2	0.0	157786.5	27522.4	0.0	35527.6	
		32834.1	19871.5	16157.3	12327.3	8798.7	5775.9	5968.2	5800.9	5083.2	
2344.46	Coal	7537.4	43467.5	1938.4	200720.6	0.0	16611.5	2516370.0	0.0	0.0	0041-1
		1733016.9	0.0	56555.7	816273.6	0.0	2218902.2	1068381.9	0.0	1112655.6	
		888284.9	285118.7	335720.9	66463.9	83381.8	24465.3	30226.7	3901.4	5759.8	
2537.00	Coal	52549.0	29247.8	14849.9	168588.0	9855.9	34390.9	1934213.4	0.0	0.0	0048-1
		3999936.5	0.0	33104.8	1470355.9	0.0	2060762.7	993627.9	0.0	984731.7	
		692555.4	483660.1	409883.4	76869.4	57193.6	27969.9	19379.2	6873.6	0.0	
2590.00	Sh/Clst	73001.8	38335.5	21854.6	82929.9	16453.7	82939.1	656143.9	63061.9	33846.3	0050-1
		561979.6	80397.0	26584.6	284566.6	0.0	791402.3	274810.0	0.0	331667.8	
		243808.0	117131.1	97511.6	33610.1	26310.1	13977.5	10925.3	0.0	0.0	

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BBS		
		28aaR	29aaS	29BBR	29BBS	29aaR					
1475.00	S/Sst	43755.0	18000.5	34213.2	28272.9	12300.0	47006.9	16118.4	24475.8	28865.6	0011-1
		24857.7	59507.4	78224.9	55940.3	81690.1	24672.1	31357.1	24574.9		
		47707.6	20431.8	27205.0	20846.2	59610.4					
2051.36	S/Sst	40801.0	17220.1	92566.1	44134.4	26866.2	19081.5	38951.3	26107.3	24330.7	0054-1
		64485.3	29748.3	23123.4	43986.2	14003.8	6770.7	23329.9	19197.2		
		0.0	10730.1	19302.4	17716.3	12604.2					
2063.13	S/Sst	10252.0	4235.0	11757.1	9211.2	4332.5	4347.2	6332.1	5581.5	7125.9	0058-1
		7473.0	5864.7	11382.1	6439.5	2663.4	3097.3	7277.7	7665.7		
		5123.5	4747.8	6208.6	5898.9	5919.2					
2065.13	Sh/Clst	187904.3	53717.3	56830.6	38212.3	19638.8	20818.9	34380.3	26843.9	41894.9	0034-1
		139359.5	32745.1	86493.8	119822.0	72627.6	19173.1	73278.3	26642.7		
		33797.7	18883.9	71890.0	40505.6	188773.7					
2072.83	S/Sst	6813.8	2722.3	16901.6	17696.3	8422.5	9827.7	11938.4	10773.8	19397.6	0062-1
		32285.5	22491.6	32422.8	31213.2	19559.3	16266.9	38128.7	44539.4		
		25335.4	26543.4	57404.9	61271.2	42059.2					

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

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BRBS		
		28aaR	29aaS	29BRBR	29BRBS	29aaR					
2075.19	S/Sst	8158.3	5218.4	33280.8	24024.0	14605.1	14782.5	16673.3	16763.8	32777.3	0064-1
		45197.4	31753.0	49187.5	42605.8	23054.6	14482.7	40391.7	43991.0		
		19490.9	23320.1	45301.0	56768.5	48180.4					
2330.09	S/Sst	13094.1	5039.5	16732.6	11937.3	4895.6	6038.2	10612.3	8698.4	14449.3	0069-1
		14302.6	10734.0	25982.3	15215.9	6403.8	9842.7	15158.7	15609.5		
		11590.2	10883.9	15142.7	13623.2	13527.3					
2344.46	Coal	16652.8	4026.6	8843.7	19252.1	6491.3	0.0	27187.1	13157.1	15465.4	0041-1
		59259.8	7770.8	19417.9	43569.7	19372.3	7676.4	30891.3	14699.7		
		17457.0	10506.0	31420.5	17353.6	62901.4					
2537.00	Coal	49973.9	15571.5	28286.5	21964.0	8907.1	9204.9	21015.8	14435.5	25212.8	0048-1
		65592.8	0.0	58021.8	54275.0	18597.5	43252.1	38284.2	20501.1		
		39779.8	108253.1	114568.3	39072.0	319810.3					
2590.00	Sh/Clst	46085.4	21244.1	58722.4	25027.0	15262.1	18769.4	26852.3	20019.8	32029.6	0050-1
		50687.5	33403.0	70339.7	38503.7	19455.9	18516.8	29042.3	22536.2		
		36945.1	24093.4	40286.6	26153.4	70629.9					

* 28daR coel with 27aaS, 29dBS coel with 27BRBR, 28daS coel with 27BRBS, 29daS coel with 28BRBR

Table 11i: Amount of standard and weight of sample for Well NOCS 6610/2-1S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Standard</u>	<u>Amount</u>	<u>Weight</u>	<u>Sample</u>
1475.00	S/Sst	10494.3	0.700	0.3	0011-1
2051.36	S/Sst	615.9	0.700	17.3	0054-1
2063.13	S/Sst	5503.9	0.700	1.7	0058-1
2065.13	Sh/Clst	12165.5	0.700	0.6	0034-1
2072.83	S/Sst	2833.8	0.700	2.4	0062-1
2075.19	S/Sst	10591.2	0.700	0.7	0064-1
2330.09	S/Sst	10351.1	0.700	0.3	0069-1
2344.46	Coal	336642.3	0.700	1.2	0041-1
2537.00	Coal	12143.8	0.700	0.2	0048-1
2590.00	Sh/Clst	4128.6	0.700	1.7	0050-1

Table 12a: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 6610/2-1S

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>Sample</u>
1475.00	S/Sst	0.81	0.75	0.54	0.57	0.64	0011-1
2051.36	S/Sst	0.77	0.73	0.45	0.50	0.54	0054-1
2063.13	S/Sst	0.72	0.69	0.47	0.46	0.61	0058-1
2065.13	Sh/Clst	0.85	0.85	0.50	0.58	0.55	0034-1
2072.83	S/Sst	0.28	0.28	0.15	0.13	0.22	0062-1
2075.19	S/Sst	0.12	0.13	0.06	0.05	0.10	0064-1
2330.09	S/Sst	0.44	0.40	0.22	0.22	0.32	0069-1
2344.46	Coal	0.25	0.17	0.16	0.13	0.44	0041-1
2537.00	Coal	0.29	0.20	0.18	0.14	0.49	0048-1
2590.00	Sh/Clst	0.34	0.26	0.20	0.17	0.40	0050-1

Ratio1: $a1 / a1 + g1$ Ratio2: $b1 / b1 + g1$ Ratio3: $a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1$ Ratio4: $a1 / a1 + e1 + f1 + g1$ Ratio5: $a1 / a1 + d1$

Table 12b: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 6610/2-1S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
1475.00	S/Sst	0.30	0.26	0.19	0.18	0011-1
2051.36	S/Sst	0.46	0.34	0.32	0.27	0054-1
2063.13	S/Sst	0.58	0.39	0.42	0.32	0058-1
2065.13	Sh/Clst	0.36	0.25	0.14	0.12	0034-1
2072.83	S/Sst	0.28	0.21	0.13	0.10	0062-1
2075.19	S/Sst	0.09	0.08	0.05	0.04	0064-1
2330.09	S/Sst	0.15	0.08	0.07	0.05	0069-1
2344.46	Coal	0.30	0.14	0.07	0.05	0041-1
2537.00	Coal	0.10	0.03	0.01	0.01	0048-1
2590.00	Sh/Clst	0.22	0.12	0.05	0.04	0050-1

Ratio1: A1 / A1 + E1
 Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1
 Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Table 12c: Aromatisation of Steranes (peak height) for Well NOCS 6610/2-1S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
1475.00	S/Sst	0.68	0.59	0011-1
2051.36	S/Sst	0.54	0.81	0054-1
2063.13	S/Sst	0.32	0.84	0058-1
2065.13	Sh/Clst	0.50	0.46	0034-1
2072.83	S/Sst	0.20	0.91	0062-1
2075.19	S/Sst	0.23	0.90	0064-1
2330.09	S/Sst	0.72	0.52	0069-1
2344.46	Coal	0.78	0.59	0041-1
2537.00	Coal	0.81	0.84	0048-1
2590.00	Sh/Clst	0.72	0.77	0050-1

$$\text{Ratio1: } \frac{\text{C1+D1+E1+F1+G1+H1+I1}}{\text{C1+D1+E1+F1+G1+H1+I1} + \text{c1+d1+e1+f1+g1}}$$

$$\text{Ratio2: } \text{g1} / \text{g1} + \text{I1}$$

Table 12d: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 6610/2-1S

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
1475.00	S/Sst	1798.5	1323.8	332.7	1011.7	504.3	418.5	430.8	0011-1
2051.36	S/Sst	880.2	706.2	293.6	761.3	370.6	243.9	260.5	0054-1
2063.13	S/Sst	474.3	405.5	128.4	303.9	213.3	165.0	184.3	0058-1
2065.13	Sh/Clst	2772.5	2837.9	1165.4	2313.4	601.1	931.6	494.3	0034-1
2072.83	S/Sst	239.7	239.8	285.6	849.9	473.6	488.4	627.3	0062-1
2075.19	S/Sst	167.8	183.4	496.4	1500.3	957.6	875.4	1234.0	0064-1
2330.09	S/Sst	216.2	178.2	169.4	468.3	258.1	221.0	271.6	0069-1
2344.46	Coal	557.2	344.5	111.9	701.9	1744.2	425.2	1664.3	0041-1
2537.00	Coal	448.5	280.5	119.9	459.1	1304.2	233.7	1114.1	0048-1
2590.00	Sh/Clst	285.3	194.3	105.9	436.4	661.5	204.5	559.6	0050-1

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
1475.00	S/Sst	693.3	562.1	659.9	546.2	1598.9	256.5	1355.9	908.9	300.3	0011-1
2051.36	S/Sst	502.6	312.9	429.1	239.3	599.0	174.3	471.7	285.2	59.2	0054-1
2063.13	S/Sst	149.7	68.9	64.3	44.6	107.3	29.6	101.3	85.4	34.1	0058-1
2065.13	Sh/Clst	455.2	273.1	423.6	315.0	813.5	165.6	1882.4	1403.2	578.6	0034-1
2072.83	S/Sst	44.9	32.0	56.2	40.4	117.5	33.6	182.7	168.0	62.1	0062-1
2075.19	S/Sst	36.2	30.2	127.7	147.8	349.9	73.5	361.4	354.5	131.0	0064-1
2330.09	S/Sst	128.0	64.7	305.5	310.8	743.9	181.7	868.6	892.1	247.6	0069-1
2344.46	Coal	636.7	235.1	369.8	69.8	1470.4	971.9	7311.8	4741.7	1150.8	0041-1
2537.00	Coal	119.1	37.3	348.2	65.2	1028.7	152.6	7600.7	4464.5	215.6	0048-1
2590.00	Sh/Clst	143.6	71.3	132.8	126.0	504.3	218.2	2254.6	1611.0	166.1	0050-1

ADDITIONAL APPENDIX
ANALYSIS OF TWO MUD SAMPLES

Table 8 a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6610/2-1S, MUD

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
2000.00	mud	bulk	-	4124.3	45.3	22.6	88.6	3967.8	67.9	4056.4	-	0001-0B
2328.00	mud	bulk	-	4270.2	39.2	15.7	78.2	4137.1	54.9	4215.4	-	0002-0B

Table 8 b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6610/2-1S, MUD

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2000.00	mud	bulk	-	-	-	-	-	-	-	0001-0B
2328.00	mud	bulk	-	-	-	-	-	-	-	0002-0B

Table 8 c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6610/2-1S, MUD

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2000.00	mud	bulk	-	-	-	-	-	-	-	0001-0B
2328.00	mud	bulk	-	-	-	-	-	-	-	0002-0B

Table 8 d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6610/2-1S, MUD

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
2000.00	mud	bulk	1.10	0.55	2.15	96.21	100.00	1.65	98.35	0.88	1.00	0001-0B
2328.00	mud	bulk	0.92	0.37	1.83	96.88	100.00	1.28	98.72	0.86	1.00	0002-0B

Table 8 e: MPLC Bulk Composition: Ratios for well NOCS 6610/2-1S, MUD

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
2000.00	mud	bulk	2.00	0.02	0.02	0001-0B
2328.00	mud	bulk	2.50	0.01	0.02	0002-0B

Table 8f: Iatroscan TLC Bulk Composition: Absolute yields in mg of EOM for well NOCS 6610/2-1S, MJD

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Rock ex</u>	<u>EOM</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>NSO</u>	<u>Asp</u>	<u>HC</u>	<u>Non-HC</u>	<u>Sample</u>
2000.00	mud	bulk	0.00	4124.30	90.37	0.00	3945.37	88.56	90.37	4033.93	0001-0B
2328.00	mud	bulk	0.00	4270.20	101.15	0.00	4090.81	78.24	101.15	4169.05	0002-0B

Table 8g: Iatroscan TLC Bulk Composition: Rel. percentages of sep. fractions for well NOCS 6610/2-1S, MUD

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>
2000.00	mud	bulk	2.19	-	95.66	2.15	100.00	2.19	97.81	0.26	0.63	0001-OB
2328.00	mud	bulk	2.37	-	95.80	1.83	100.00	2.37	97.63	0.23	0.60	0002-OB

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6610/2-1S, MUD

Depth unit of measure: m

Depth	Typ	Lithology	<u>Pristane</u>	<u>Pristane</u>	<u>Pristane/nC17</u>	<u>Phytane</u>		<u>nC17</u>	
			<u>nC17</u>	<u>Phytane</u>	<u>Phytane/nC18</u>	<u>nC18</u>	<u>CPI1</u>	<u>nC17+nC27</u>	<u>Sample</u>
2000.00	mud	bulk	0.44	1.50	1.11	0.40	-	1.00	0001-0B
2328.00	mud	bulk	0.40	1.43	1.07	0.38	1.23	0.96	0002-0B

Table 9Ca: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6610/2-1S, MJD

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
2000.00	mud	bulk	-	-	-	-	-	-	-	-	-	-	0001-0B
2328.00	mud	bulk	-	-	-	-	-	-	-	-	-	-	0002-0B

Table 9Cb: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6610/2-1S, MUD

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>F1</u>	<u>F2</u>	<u>Sample</u>
2000.00	mud	bulk	-	-	0001-0B
2328.00	mud	bulk	-	-	0002-0B

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>Rat.10</u>	<u>Rat.11</u>	<u>Rat.12</u>	<u>Rat.13</u>	<u>Rat.14</u>	<u>Sample</u>
2000.00	bulk	1.07	0.52	0.19	0.69	0.41	0.03	0.20	0.29	0.17	0.20	0.93	0.42	0.10	62.40	0001-0
2328.00	bulk	1.14	0.53	0.21	0.75	0.43	0.04	0.22	0.29	0.18	0.19	0.89	0.44	0.14	53.10	0002-0

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 6610/2-1S, MUD

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>
2000.00	bulk	0.50	39.49	75.25	0.94	0.79	0.44	0.33	0.60	0.65	2.51	0001-0
2328.00	bulk	0.57	32.56	70.96	1.23	0.79	0.45	0.33	0.55	0.48	1.81	0002-0

List of Sterane Distribution Ratios

Ratio 1: $27dBS / 27dBS+27aaR$

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: $27dBS+27d\beta R+27daR+27daS / 29dBS+29d\beta R+29daR+29daS$

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

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	
2000.00	bulk	1430.6	703.2	284.5	685.1	172.9	853.8	912.2	712.8	181.6	0001-0
		2479.3	646.1	90.7	315.8	138.2	3599.9	277.5	178.3	1122.8	
		737.2	687.8	414.5	295.2	204.2	236.7	145.5	204.3	134.6	
2328.00	bulk	739.9	381.9	135.1	459.9	127.2	526.3	597.9	444.1	159.8	0002-0
		1514.0	402.5	76.8	263.0	82.8	2013.5	244.8	73.6	567.3	
		452.3	252.1	222.7	155.8	102.4	91.0	76.9	91.5	81.7	

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					
2000.00	bulk	1484.5	508.7	938.0	518.6	167.6	292.4	335.2	220.9	461.1	0001-0
		823.6	753.2	956.3	531.5	216.8	259.1	472.1	584.5		
		392.0	400.8	869.7	672.7	614.0					
2328.00	bulk	793.9	266.4	652.6	364.4	150.7	223.2	260.8	192.5	260.6	0002-0
		426.1	436.4	496.1	328.9	143.0	152.7	234.8	285.8		
		210.1	189.4	407.3	303.0	392.2					

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

Depth unit of measure: m

Depth	Lithology	27 β BR	27 β BS	28 β BR	28 β BS	29 β BR	29 β BS	30 β BR	30 β BS	Sample
2000.00	bulk	1141.9	1082.5	666.8	829.9	1336.3	1125.8	74.4	82.4	0001-0
2328.00	bulk	537.4	520.9	358.4	393.1	528.5	496.5	47.8	62.7	0002-0

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 6610/2-1S, MUD

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aß</u>	<u>25nor30aß</u>	<u>Sample</u>
2000.00	bulk	609.9	71.1	0001-0
2328.00	bulk	339.9	58.9	0002-0