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**GEOCHEMICAL REPORT FOR
WELL NOCS 34/10-39S**

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Chapter 1

INTRODUCTION

1.1 General Well Information

The well NOCS 34/10-39S is located in the North Viking Graben, Norwegian North Sea sector. The 34/10 block and adjoining blocks are shown in Figure 1.1. The well penetrated the Tertiary Nordland Gp. and had a TD in the Lower Jurassic Statfjord Fm. All depths are given relative to KB unless otherwise specified. Only cuttings samples were provided for this study from the depth interval 1060 - 3257 m RKB, out of which a selected suite of samples was included for geochemical analysis.

The primary aim of the Statoil-designed analytical program was primarily one of source rock assessment, but detection / characterization of possible migrated hydrocarbon shows, particularly in the thin sandstone sections was also of importance. Additionally, based on the preliminary results, investigation of the possible effects from Anco 2000 drill mud was also planned, but no mud samples could be obtained for this purpose.

Vitrinite reflectance work was performed by IFE (Aasgaard, 1996), and the data were made available to Geolab Nor for integration in the maturity assessment for the well.

With regards to the mud system used in this well during drilling, a glycol / diesel based ANCO-2000 mud was used from 2060 m up to the total depth. All the cutting samples were thoroughly washed with luke warm water to remove as much contamination as possible.

1.2 Analytical Program

The analytical program for well NOCS 34/10-39S was based on the samples selected by Statoil for screening and detailed follow-up analysis. The number of samples for the individual analyses are listed below:

<u>Analysis type</u>	<u>No of samples</u>	<u>Figures</u>	<u>Tables</u>
Lithology description	64	2.1	1
TOC	36	2.2	1, 2
Rock-Eval pyrolysis	42	2.3, 2.4a-b, 3.1 4.1, 4.2	2
Thermal Extraction - GC (GHM - S ₁)	3		
Pyrolysis GC (GHM, S ₂)	14	2.5a-f	3
Vitrinite reflectance [#]	22	3.2a-b	4
Iatroscan TLC/FID	14		5a-c
Soxtec Extraction of organic matter	14		
MPLC separation	14	4.3	6a-e
Saturated hydrocarbon GC	14	2.6a-e, 4.4	7a-b
Aromatic hydrocarbon GC	14	2.7a-b	8a-b
GC - MS of saturated and aromatic HC	14	2.8a-c	9a-k
Isotope composition C ₁₅ + fractions	14	5.1, 5.2	10a-b
Isotope composition kerogen conc.	11	5.2	10a

[#] Vitrinite reflectance measurements were performed by IFE (IFE report IFE/KR/F-96/087).

Samples	Litho	TOC	RE	Py-GC	Vit	Ext.	Iatro.	GC	GC-MS	IF
1060 m	x									
1150 m	x				x					
1300 m	x				x					
1500 m	x				x					
1690 m	x				x					
1900 m	x				x					
2090 m	x				x					
2300 m	x				x					
2310 m	x	x	x	x		x	x	x	x	x
2320 m	x	x	x	x		x	x	x	x	x
2350 m	x	x	x							
2370 m	x	x	x	x		x	x	x	x	x
2430 m	x				x					
2483 m	x	x	x	x		x	x	x	x	x
2486 m	x									
2489 m	x	x	x							
2492 m	x	x	x							
2495 m	x	x	x							
2501 m	x	x	x	x		x	x	x	x	x
2504 m	x	x	x							
2510 m	x	x	x							
2513 m	x				x					
2516 m	x	x	x	x		x	x	x	x	x
2519 m	x	x	x							
2525 m	x	x	x							
2528 m	x	x	x	x		x	x	x	x	x
2537 m	x	x	x							
2549 m	x	x	x							
2555 m	x	x	x							
2558 m	x				x					
2561 m	x	x	x	x		x	x	x	x	x
2564 m	x		x							
2573 m	x		x							
2630 m	x	x	x							

Samples	Litho.	TOC	RE	Py-GC	Vit	Ext.	Iatro	GC	GC-MS	IF
2633 m	x				x					
2636 m	x	x	x	x		x	x	x	x	x
2654 m	x	x	x							
2684 m	x				x					
2825 m	x	x	x							
2852 m	x	x	x	x		x	x	x	x	x
2873 m	x	x	x							
2885 m	x	x	x							
2888 m	x				x					
2894 m	x	x	x							
2897 m	x	x	x	x		x	x	x	x	x
2903 m	x	x	x							
2912 m	x		x							
2933 m	x				x					
3014 m	x				x					
3017 m	x	x	x							
3041 m	x	x	x	x		x	x	x	x	x
3050 m	x				x					
3059 m	x	x	x							
3113 m	x	x	x							
3116 m	x				x					
3131 m	x	x	x	x		x	x	x	x	x
3152 m	x				x					
3167 m	x	x	x							
3203 m	x				x					
3227 m	x				x					
3242 m	x		x							
3251 m	x		x							
3257 m	x				x					

Litho = Lithology description
 TOC = TOC (LECO) analysis
 RE = Rock Eval pyrolysis
 Py-GC = Pyrolysis gas chromatography
 Vit = Vitrinite reflectance
 Ext. = Solvent extraction, deasphalting and MPLC
 Iatro = Iatroscan TLC/FID analysis
 GC = Saturated and aromatic hydrocarbon GC
 GC-MS = Gas chromatography - mass spectrometry
 IF = Carbon isotopes of fractions and kerogen

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1060.00						0001
				100 Sh/Clst: ol gy tr Other : gn, glauc		0001-1L 0001-2L
1150.00						0002
				60 Sh/Clst: lt ol gy, calc 40 Sh/Clst: m gy tr Other : gn, glauc		0002-1L 0002-2L 0002-3L
1300.00						0003
				75 Sh/Clst: m gn gy 20 Sh/Clst: m ol gy 5 S/Sst : w, l		0003-1L 0003-2L 0003-3L
1500.00						0004
				100 Sh/Clst: m gn gy to m ol gy		0004-1L
1690.00						0005
				80 Sh/Clst: m gn gy to m lt bl gy 20 Sh/Clst: dsk gy y to m ol gy		0005-1L 0005-2L
1900.00						0006
				100 Sh/Clst: m gy to m ol gy tr Other : w		0006-1L 0006-2L
2090.00						0007
				100 Sh/Clst: m lt gy tr Ca : w		0007-1L 0007-2L

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2300.00						0008
			100	Sh/Clst: m lt gy tr Ca : w		0008-1L 0008-2L
2310.00						0009
		0.83	100	Sh/Clst: m lt gy tr Ca : w		0009-1L 0009-2L
2320.00						0010
		0.86	100	Sh/Clst: m lt gy tr Cont : brn, prp		0010-1L 0010-2L
2330.00						0011
		0.93	100	Sh/Clst: m lt gy tr Cont : brn, prp		0011-1L 0011-2L
2350.00						0012
		0.98	100	Sh/Clst: m lt gy tr Cont : brn, prp		0012-1L 0012-2L
2370.00						0013
		1.06	100	Sh/Clst: m lt gy tr Cont : brn, prp		0013-1L 0013-2L
2430.00						0014
			95	Sh/Clst: m lt gy, slit 5 Sltst : w to lt gy tr Sh/Clst: dsk y		0014-1L 0014-2L 0014-3L
2483.00						0015
		8.30	35	Sh/Clst: drk gy 30 Ca : w 30 Ca : m lt brn 5 Sh/Clst: m lt gy		0015-1L 0015-2L 0015-3L 0015-4L

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Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2486.00						0016
	9.22	60	Sh/Clst:	drk gy		0016-1L
		15	Ca	: w		0016-2L
		15	Ca	: m lt brn		0016-3L
		5	Sh/Clst:	m lt gy		0016-4L
		5	Cont	: w, l, bar		0016-5L
2489.00						0017
	10.20	90	Sh/Clst:	drk gy		0017-1L
		5	Ca	: w		0017-2L
		5	Ca	: m lt brn		0017-3L
2492.00						0018
	24.30	90	Sh/Clst:	drk gy		0018-1L
		5	Ca	: w, m lt brn		0018-2L
		5	Cont	: w, bar, l		0018-3L
2495.00						0019
	23.90	95	Sh/Clst:	drk gy		0019-1L
		5	Ca	: w, m lt brn		0019-2L
		tr	Cont	: w, bar, l		0019-3L
2501.00						0020
	25.70	100	Sh/Clst:	drk gy		0020-1L
		tr	Ca	: w, m lt brn		0020-2L
		tr	Cont	: w, bar, l		0020-3L
2504.00						0021
	0.34	100	Sh/Clst:	drk gy		0021-1L
		tr	Ca	: w, m lt brn		0021-2L
		tr	Cont	: w, bar, l		0021-3L
2510.00						0022
	5.16	100	Sh/Clst:	drk gy		0022-1L
		tr	Ca	: w, m lt brn		0022-2L
		tr	Cont	: w, bar, l		0022-3L

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2513.00						0023
			100	Sh/Clst: drk gy		0023-1L
			tr Ca	: w, m lt brn		0023-2L
2516.00						0024
		2.32	100	Sh/Clst: drk gy		0024-1L
			tr Ca	: w, m lt brn		0024-2L
2519.00						0025
		1.63	100	Sh/Clst: drk gy		0025-1L
			tr Ca	: w, m lt brn		0025-2L
2525.00						0026
		6.35	95	Sh/Clst: drk gy		0026-1L
			5	Sh/Clst: lt ol gy		0026-3L
			tr Ca	: w, m lt brn		0026-2L
2528.00						0027
		6.76	95	Sh/Clst: drk gy		0027-1L
			5	Ca : w, m lt brn		0027-2L
			tr	Sh/Clst: lt ol gy		0027-3L
2537.00						0028
		7.32	80	Sh/Clst: drk gy		0028-1L
			10	Sh/Clst: lt ol gy to lt gy, calc		0028-3L
			5	Ca : w, m lt brn		0028-2L
			5	Other : v col		0028-4L
			tr	Other : y, pyr		0028-5L
2549.00						0029
		6.89	90	Sh/Clst: drk gy to m drk gy		0029-1L
			5	Ca : w, m lt brn		0029-2L
			5	Sh/Clst: lt ol gy to lt gy, calc		0029-3L
			tr	Other : y, pyr		0029-4L

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2555.00						0030
	6.08	90	Sh/Clst:	drk gy to m drk gy		0030-1L
		5	Ca	: w, m lt brn		0030-2L
		5	Sh/Clst:	lt ol gy to lt gy, calc		0030-3L
		tr	Other	: y, pyr		0030-4L
2558.00						0031
		85	Sh/Clst:	drk gy to m drk gy		0031-1L
		5	Ca	: w, m lt brn		0031-2L
		5	Sh/Clst:	lt ol gy to lt gy, calc		0031-3L
		5	Other	: y, pyr		0031-4L
2561.00						0032
	6.46	95	Sh/Clst:	drk gy to m drk gy		0032-1L
		5	Ca	: w, m lt brn		0032-2L
		tr	Other	: y, pyr		0032-3L
2564.00						0033
		90	S/Sst	: w, l, f		0033-1L
		10	Sh/Clst:	m drk gy		0033-2L
2573.00						0034
		95	S/Sst	: w, l, f		0034-1L
		5	Sh/Clst:	m drk gy		0034-2L
2630.00						0035
	51.40	100	Sh/Clst:	blk, carb		0035-1L
		tr	S/Sst	: w, l		0035-2L
2633.00						0036
		50	Sh/Clst:	blk to drk brn blk, carb		0036-1L
		50	Cont	: w, bar, l		0036-2L

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2636.00						0037
	46.60	90	Sh/Clst:	blk to drk brn blk, carb		0037-1L
		5	Cont	: w, bar, l		0037-2L
		5	Ca	: w		0037-3L
2654.00						0038
	26.30	80	Sh/Clst:	drk gy to blk, carb		0038-1L
		15	S/Sst	: w, calc		0038-3L
		5	Cont	: w, f, l		0038-2L
2684.00						0039
		95	S/Sst	: w, f, l		0039-1L
		5	Sh/Clst:	drk gy		0039-2L
		tr	Cont	: w, mic		0039-3L
2825.00						0040
	1.36	50	Sh/Clst:	m gy		0040-1L
		50	S/Sst	: w, l		0040-2L
2852.00						0041
	1.41	95	Sh/Clst:	m gy		0041-1L
		5	Sh/Clst:	m ol gy		0041-2L
2873.00						0042
	1.54	50	Sh/Clst:	m gy		0042-1L
		50	S/Sst	: w, f, l		0042-2L
2885.00						0043
	1.39	95	Sh/Clst:	m gy		0043-1L
		5	Sh/Clst:	v col		0043-2L

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2888.00						0044
			95	Sh/Clst: m gy		0044-1L
			5	Ca : w, s		0044-2L
2894.00						0045
	1.40		95	Sh/Clst: m gy		0045-1L
			5	Ca : w, s		0045-2L
2897.00						0046
	1.39		100	Sh/Clst: m gy		0046-1L
			tr	Ca : w, s		0046-2L
2903.00						0047
			85	S/Sst : w, f, l		0047-2L
			10	Sh/Clst: m gy		0047-1L
			5	Other : y, pyr		0047-3L
			tr	Ca : w		0047-4L
2912.00						0048
			100	S/Sst : w, f, l		0048-2L
			tr	Sh/Clst: m gy		0048-1L
2933.00						0049
			95	Sh/Clst: dsk y gy to dsk ol gy, calc		0049-1L
			5	Ca : w		0049-2L
			tr	S/Sst : w, l		0049-3L
3014.00						0050
			50	Sh/Clst: m gy to m gn gy		0050-1L
			15	Sh/Clst: drk gy		0050-2L
			15	S/Sst : w, l		0050-3L
			15	Ca : w		0050-4L
			5	Other : v col		0050-5L

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3017.00						0051
	1.14	90	Sh/Clst:	m gn gy to m ol gy		0051-1L
		5	Ca	: w		0051-2L
		5	Other	: v col		0051-3L
3041.00						0052
	2.19	95	Sh/Clst:	m gn gy to m ol gy		0052-1L
		5	Sh/Clst:	lt y gy, calc		0052-2L
3050.00						0053
		90	Sh/Clst:	m ol gy		0053-1L
		10	Sh/Clst:	lt y gy to m y gy, calc		0053-2L
3059.00						0054
	1.21	100	Sh/Clst:	m ol gy to m gy		0054-1L
		tr	Sh/Clst:	lt y gy to m y gy, calc		0054-2L
3113.00						0055
	1.25	100	Sh/Clst:	m ol gy to m gy		0055-1L
		tr	Sh/Clst:	lt y gy to m y gy, calc		0055-2L
3116.00						0056
		100	Sh/Clst:	m ol gy to m gy		0056-1L
		tr	Sh/Clst:	lt y gy to m y gy, calc		0056-2L
3131.00						0057
	1.36	95	Sh/Clst:	m ol gy to m gy		0057-1L
		5	Sh/Clst:	lt y gy to m y gy, calc		0057-2L
3152.00						0058
		100	Sh/Clst:	m ol gy to m gy		0058-1L
		tr	Sh/Clst:	lt y gy to m y gy, calc		0058-2L

Table 1 : Lithology description for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3167.00						0059
	1.52	100		Sh/Clst: m gy tr Sh/Clst: lt y gy to m y gy, calc		0059-1L 0059-2L
3203.00						0060
				75 Sh/Clst: m lt gy 20 Sh/Clst: lt gy, calc 5 Ca : w		0060-1L 0060-2L 0060-3L
3227.00						0061
				60 Sh/Clst: m lt gy 35 Sh/Clst: lt gy to pl w, calc 5 S/Sst : w		0061-1L 0061-2L 0061-3L
3242.00						0062
				85 S/Sst : w, l 10 Sh/Clst: lt gy to pl w, calc 5 Sh/Clst: m lt gy		0062-3L 0062-2L 0062-1L
3251.00						0063
				95 S/Sst : w, l 5 Sh/Clst: m gy to m ol gy tr Other : v col		0063-1L 0063-2L 0063-3L
3257.00						0064
				95 S/Sst : w, l 5 Sh/Clst: m gy to m ol gy tr Other : v col		0064-1L 0064-2L 0064-3L

Table 2 : Rock-Eval table for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2310.00	cut	Sh/Clst: m lt gy	3.12	4.21	2.20	1.91	0.83	507	265	7.3	0.43	350	0009-1L
2320.00	cut	Sh/Clst: m lt gy	3.45	3.95	2.69	1.47	0.86	459	313	7.4	0.47	353	0010-1L
2330.00	cut	Sh/Clst: m lt gy	3.33	4.09	2.67	1.53	0.93	440	287	7.4	0.45	346	0011-1L
2350.00	cut	Sh/Clst: m lt gy	2.76	4.03	2.73	1.48	0.98	411	279	6.8	0.41	345	0012-1L
2370.00	cut	Sh/Clst: m lt gy	3.13	4.29	2.92	1.47	1.06	405	275	7.4	0.42	350	0013-1L
2483.00	cut	Sh/Clst: drk gy	7.77	45.53	2.60	17.51	8.30	549	31	53.3	0.15	414	0015-1L
2486.00	cut	Sh/Clst: drk gy	8.93	42.91	2.50	17.16	9.22	465	27	51.8	0.17	415	0016-1L
2489.00	cut	Sh/Clst: drk gy	7.05	39.07	3.76	10.39	10.20	383	37	46.1	0.15	413	0017-1L
2492.00	cut	Sh/Clst: drk gy	7.44	39.22	2.02	19.42	24.30	161	8	46.7	0.16	415	0018-1L
2495.00	cut	Sh/Clst: drk gy	7.72	32.45	2.21	14.68	23.90	136	9	40.2	0.19	412	0019-1L
2501.00	cut	Sh/Clst: drk gy	7.12	28.32	2.75	10.30	25.70	110	11	35.4	0.20	413	0020-1L
2504.00	cut	Sh/Clst: drk gy	5.95	28.04	3.54	7.92	7.52	373	47	34.0	0.18	414	0021-1L
2510.00	cut	Sh/Clst: drk gy	5.82	27.04	3.33	8.12	5.16	524	65	32.9	0.18	413	0022-1L
2516.00	cut	Sh/Clst: drk gy	5.43	22.78	3.45	6.60	7.98	285	43	28.2	0.19	418	0024-1L
2519.00	cut	Sh/Clst: drk gy	4.59	22.00	3.42	6.43	7.84	281	44	26.6	0.17	417	0025-1L
2525.00	cut	Sh/Clst: drk gy	5.28	21.87	3.55	6.16	6.35	344	56	27.2	0.19	412	0026-1L

Table 2 : Rock-Eval table for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2528.00	cut	Sh/Clst: drk gy	4.35	21.62	3.47	6.23	6.76	320	51	26.0	0.17	416	0027-1L
2537.00	cut	Sh/Clst: drk gy	4.90	23.21	4.08	5.69	7.32	317	56	28.1	0.17	416	0028-1L
2549.00	cut	Sh/Clst: drk gy to m drk gy	3.16	23.69	3.42	6.93	6.89	344	50	26.9	0.12	415	0029-1L
2555.00	cut	Sh/Clst: drk gy to m drk gy	3.11	23.90	3.07	7.79	6.08	393	50	27.0	0.12	419	0030-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	3.69	27.54	2.94	9.37	6.46	426	46	31.2	0.12	416	0032-1L
2564.00	cut	S/Sst : w	0.02	0.02	0.07	0.29	-	-	-	0.0	0.50	419	0033-1L
2573.00	cut	S/Sst : w	0.03	0.04	0.11	0.36	-	-	-	0.1	0.43	423	0034-1L
2630.00	cut	Sh/Clst: blk	33.40	104.40	14.60	7.15	51.40	203	28	137.8	0.24	431	0035-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	32.00	108.22	18.44	5.87	46.60	232	40	140.2	0.23	430	0037-1L
2654.00	cut	Sh/Clst: drk gy to blk	12.44	61.63	11.42	5.40	26.30	234	43	74.1	0.17	433	0038-1L
2825.00	cut	Sh/Clst: m gy	1.62	3.35	1.63	2.06	1.36	246	120	5.0	0.33	427	0040-1L
2852.00	cut	Sh/Clst: m gy	1.99	4.21	1.33	3.17	1.41	299	94	6.2	0.32	353	0041-1L
2873.00	cut	Sh/Clst: m gy	1.72	4.61	1.38	3.34	1.54	299	90	6.3	0.27	355	0042-1L
2885.00	cut	Sh/Clst: m gy	1.84	3.28	1.31	2.50	1.39	236	94	5.1	0.36	349	0043-1L
2894.00	cut	Sh/Clst: m gy	2.01	4.53	1.52	2.98	1.40	324	109	6.5	0.31	353	0045-1L
2897.00	cut	Sh/Clst: m gy	2.07	4.72	1.49	3.17	1.39	340	107	6.8	0.30	357	0046-1L

Table 2 : Rock-Eval table for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2903.00	com	bulk	0.08	0.07	0.28	0.25	-	-	-	0.2	0.53	390	0065-0B
2912.00	cut	S/Sst : w	0.34	0.57	0.62	0.92	-	-	-	0.9	0.37	428	0048-2L
3017.00	cut	Sh/Clst: m gn gy to m ol gy	2.07	5.10	1.72	2.97	1.14	447	151	7.2	0.29	435	0051-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	2.52	11.92	1.44	8.28	2.19	544	66	14.4	0.17	427	0052-1L
3059.00	cut	Sh/Clst: m ol gy to m gy	1.74	6.20	1.95	3.18	1.21	512	161	7.9	0.22	435	0054-1L
3113.00	cut	Sh/Clst: m ol gy to m gy	1.62	4.53	1.67	2.71	1.25	362	134	6.2	0.26	437	0055-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	2.93	5.06	2.38	2.13	1.36	372	175	8.0	0.37	433	0057-1L
3167.00	cut	Sh/Clst: m gy	1.46	5.07	1.09	4.65	1.52	334	72	6.5	0.22	438	0059-1L
3242.00	cut	S/Sst : w	0.01	-	-	-	-	-	-	0.0	1.00	-	0062-3L
3251.00	cut	S/Sst : w	0.01	-	-	-	-	-	-	0.0	1.00	-	0063-1L

Table 2b: Rock-Eval table for well RE,STD

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1.00	std	bulk	0.43	20.10	1.82	11.04	-	-	-	20.5	0.02	421	0075-0B
2.00	std	bulk	0.48	20.31	1.65	12.31	-	-	-	20.8	0.02	419	0076-0B
3.00	std	bulk	0.47	20.37	1.60	12.73	-	-	-	20.8	0.02	422	0077-0B

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2310.00	cut	Sh/Clst: m lt gy	3.29	59.88	35.20	1.63	-	0009-1L
2320.00	cut	Sh/Clst: m lt gy	3.55	46.91	42.58	6.96	-	0010-1L
2370.00	cut	Sh/Clst: m lt gy	5.21	55.06	36.73	3.02	-	0013-1L
2483.00	cut	Sh/Clst: drk gy	4.49	21.06	38.01	36.44	-	0015-1L
2489.00	cut	Sh/Clst: drk gy	6.68	34.27	48.12	10.93	-	0017-1L
2501.00	cut	Sh/Clst: drk gy	6.11	23.72	41.63	28.54	-	0020-1L
2516.00	cut	Sh/Clst: drk gy	5.29	22.90	40.00	31.80	-	0024-1L
2528.00	cut	Sh/Clst: drk gy	5.45	21.66	41.44	31.44	-	0027-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	4.43	22.56	39.48	33.53	-	0032-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	14.16	18.72	30.01	37.11	-	0037-1L
2852.00	cut	Sh/Clst: m gy	3.69	37.58	44.25	14.48	-	0041-1L
2897.00	cut	Sh/Clst: m gy	4.07	40.24	45.88	9.81	-	0046-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	3.32	25.02	39.12	32.55	-	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	4.93	41.90	44.05	9.13	-	0057-1L

Table 4a Vitrinite reflectance data

Well
34/10-39S

IFE no.	Depth, mRKB	Sample type	Lithology	%Rm	Std. dev.	N	Quality	Preparation
960422	1080	cut	clst	0.26	0.04	23	M	HF
960423	1150	cut	clst	0.27	0.04	29	M	HF
960424	1300	cut	clst	0.29	0.05	22	M	HF
960425	1500	cut	clst	0.30	0.04	14	M	HF
960426	1690	cut	clst	0.33	0.06	23	M	HF
960427	1900	cut	clst	0.41	0.06	24	M	HF
960428	2090	cut	clst	0.42	0.06	25	M	HF
960429	2300	cut	clst	0.43	0.05	20	Mst	HF
960430	2430	cut	clst	0.42	0.05	24	Mst	HF
960431	2513	cut	clst	0.46	0.05	20	Mst	HF
960432	2558	cut	clst	0.47	0.02	8	Pst	HF
960433	2633	cut	sst/coal	0.49	0.02	23	G	HF
960434	2684	cut	sst	0.46	0.04	20	Mst	HF
960435	2888	cut	clst/sst	0.54	0.08	22	Pst	HF
960436	2933	cut	clst/sst	0.48	0.02	2	Pst	HF
960437	3014	cut	sst/clst	0.48	0.04	18	Pst	HF
960438	3050	cut	clst	0.57	0.05	4	Pst	HF
960439	3116	cut	clst	0.58	0.05	13	Mst	HF
960440	3152	cut	clst	0.56	0.03	10	Pst	HF
960441	3203	cut	clst	0.64	0.07	21	Mst	HF
960442	3227	cut	clst	0.72	0.06	21	Pst	HF
960443	3257	cut	sst	.47/.64	.05/.05	24/5	P	HF

G	Good quality	P	Poor quality	st	HC-staining	HF	HF-treated
M	Moderate quality	X	Not vitrinite	Barren	Barren of vitrinite	Bulk	Bulk rock

Table 5A: Results of TLC-FID analysis: Absolute yields in mg/g rock for well NOCS 34/10-39S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM weighed</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>Resins</u>	<u>Asp</u>	<u>Tot HC</u>	<u>Tot Pol</u>	<u>EOM calcul.</u>	<u>Sample</u>
2310.00	cut	Sh/Clst	1.43	0.04	0.01	0.46	0.06	0.05	0.52	0.57	0009-1L
2320.00	cut	Sh/Clst	1.79	0.14	0.04	0.53	0.03	0.18	0.56	0.75	0010-1L
2370.00	cut	Sh/Clst	2.82	0.09	0.03	0.68	1.18	0.12	1.86	1.98	0013-1L
2483.00	cut	Sh/Clst	4.73	0.25	0.15	1.87	0.66	0.40	2.53	2.93	0015-1L
2489.00	cut	Sh/Clst	18.85	0.27	0.14	7.86	2.17	0.41	10.03	10.44	0017-1L
2501.00	cut	Sh/Clst	15.82	0.16	0.16	5.24	2.49	0.32	7.72	8.04	0020-1L
2516.00	cut	Sh/Clst	5.12	0.11	0.16	1.89	0.73	0.28	2.62	2.90	0024-1L
2528.00	cut	Sh/Clst	3.51	0.08	0.11	1.40	0.44	0.19	1.84	2.03	0027-1L
2561.00	cut	Sh/Clst	4.35	0.48	0.20	1.63	0.46	0.68	2.09	2.77	0032-1L
2636.00	cut	Sh/Clst	93.42	0.36	1.12	21.53	22.53	1.48	44.06	45.55	0037-1L
2852.00	cut	Sh/Clst	1.74	0.13	0.03	0.65	0.05	0.16	0.70	0.85	0041-1L
2897.00	cut	Sh/Clst	2.59	0.13	0.05	1.08	0.26	0.18	1.35	1.53	0046-1L
3041.00	cut	Sh/Clst	2.20	0.21	0.24	0.70	0.43	0.45	1.13	1.58	0052-1L
3131.00	cut	Sh/Clst	3.03	0.17	0.07	0.85	0.22	0.24	1.07	1.31	0057-1L

Table 5B: Results of TLC-FID analysis: Rel. percentages of sep. fractions for well NOCS 34/10-39S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sat HC</u>	<u>Aro HC</u>	<u>Resins</u>	<u>Asp</u>	<u>Tot HC</u>	<u>Tot Pol</u>	<u>Sample</u>
2310.00	cut	Sh/Clst	7.81	2.10	86.13	3.97	9.91	90.09	0009-1L
2320.00	cut	Sh/Clst	19.11	5.87	73.35	1.67	24.98	75.02	0010-1L
2370.00	cut	Sh/Clst	6.80	2.03	49.38	41.78	8.84	91.16	0013-1L
2483.00	cut	Sh/Clst	9.63	5.50	70.95	13.91	15.14	84.86	0015-1L
2489.00	cut	Sh/Clst	2.85	1.53	84.10	11.52	4.38	95.62	0017-1L
2501.00	cut	Sh/Clst	2.46	2.40	79.40	15.74	4.86	95.14	0020-1L
2516.00	cut	Sh/Clst	4.44	6.48	74.75	14.32	10.93	89.07	0024-1L
2528.00	cut	Sh/Clst	4.57	5.84	77.13	12.46	10.41	89.59	0027-1L
2561.00	cut	Sh/Clst	18.39	7.81	63.20	10.59	26.21	73.79	0032-1L
2636.00	cut	Sh/Clst	1.19	3.71	70.99	24.12	4.89	95.11	0037-1L
2852.00	cut	Sh/Clst	15.21	3.82	78.34	2.63	19.03	80.97	0041-1L
2897.00	cut	Sh/Clst	9.43	3.42	76.96	10.19	12.85	87.15	0046-1L
3041.00	cut	Sh/Clst	14.67	16.59	49.25	19.49	31.26	68.74	0052-1L
3131.00	cut	Sh/Clst	14.38	6.06	72.33	7.22	20.44	79.56	0057-1L

Table 6 a: Weight of EOM and Chromatographic Fraction for well NOCS 34/10-39S

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
2310.00	cut	Sh/Clst: m lt gy	10.4	14.8	0.3	1.4	0.6	12.6	1.6	13.2	0.83	0009-1L
2320.00	cut	Sh/Clst: m lt gy	10.3	18.5	2.1	1.4	0.3	14.7	3.5	15.0	0.86	0010-1L
2370.00	cut	Sh/Clst: m lt gy	10.4	29.4	1.1	2.2	12.3	13.9	3.3	26.1	1.06	0013-1L
2483.00	cut	Sh/Clst: drk gy	6.5	30.9	3.8	2.6	4.3	20.2	6.4	24.5	8.30	0015-1L
2489.00	cut	Sh/Clst: drk gy	10.3	194.9	43.7	36.4	22.5	92.3	80.2	114.8	10.20	0017-1L
2501.00	cut	Sh/Clst: drk gy	10.1	160.4	3.4	6.9	25.2	124.8	10.3	150.1	25.70	0020-1L
2516.00	cut	Sh/Clst: drk gy	10.3	52.7	3.8	4.7	7.6	36.7	8.5	44.2	2.32	0024-1L
2528.00	cut	Sh/Clst: drk gy	11.6	40.9	1.9	4.1	5.1	29.8	6.0	34.9	6.76	0027-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	10.1	43.8	7.1	4.1	4.6	28.0	11.1	32.7	6.46	0032-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	3.4	313.9	3.0	13.0	75.7	222.3	15.9	298.0	46.60	0037-1L
2852.00	cut	Sh/Clst: m gy	10.1	17.6	1.7	0.7	0.5	14.8	2.4	15.2	1.41	0041-1L
2897.00	cut	Sh/Clst: m gy	4.8	12.4	0.3	0.3	1.3	10.6	0.5	11.9	1.39	0046-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	10.0	22.1	2.1	2.6	4.3	13.1	4.7	17.4	2.19	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	9.5	28.7	2.7	2.0	2.1	22.0	4.7	24.0	1.36	0057-1L

Table 6 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2310.00	cut	Sh/Clst: m lt gy	1428	26	132	56	1213	158	1270	0009-1L
2320.00	cut	Sh/Clst: m lt gy	1790	203	135	30	1422	338	1452	0010-1L
2370.00	cut	Sh/Clst: m lt gy	2816	104	207	1176	1327	312	2503	0013-1L
2483.00	cut	Sh/Clst: drk gy	4732	588	392	658	3093	980	3751	0015-1L
2489.00	cut	Sh/Clst: drk gy	18849	4228	3523	2172	8925	7751	11097	0017-1L
2501.00	cut	Sh/Clst: drk gy	15818	339	677	2489	12312	1016	14801	0020-1L
2516.00	cut	Sh/Clst: drk gy	5121	365	456	733	3565	822	4299	0024-1L
2528.00	cut	Sh/Clst: drk gy	3513	161	350	438	2563	512	3001	0027-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	4345	703	401	460	2779	1105	3240	0032-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	93422	877	3860	22532	66151	4738	88684	0037-1L
2852.00	cut	Sh/Clst: m gy	1744	165	70	45	1462	235	1508	0041-1L
2897.00	cut	Sh/Clst: m gy	2594	52	52	263	2225	104	2489	0046-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	2201	210	256	429	1304	467	1734	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	3027	285	207	218	2315	493	2533	0057-1L

Table 6 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2310.00	cut	Sh/Clst: m lt gy	172.12	3.14	15.93	6.86	146.18	19.07	153.04	0009-1L
2320.00	cut	Sh/Clst: m lt gy	208.24	23.64	15.76	3.49	165.36	39.40	168.85	0010-1L
2370.00	cut	Sh/Clst: m lt gy	265.67	9.85	19.61	110.97	125.24	29.46	236.21	0013-1L
2483.00	cut	Sh/Clst: drk gy	57.01	7.09	4.72	7.93	37.27	11.81	45.20	0015-1L
2489.00	cut	Sh/Clst: drk gy	184.80	41.45	34.54	21.30	87.51	75.99	108.80	0017-1L
2501.00	cut	Sh/Clst: drk gy	61.55	1.32	2.64	9.69	47.91	3.96	57.59	0020-1L
2516.00	cut	Sh/Clst: drk gy	220.75	15.75	19.69	31.63	153.69	35.44	185.32	0024-1L
2528.00	cut	Sh/Clst: drk gy	51.98	2.39	5.19	6.48	37.92	7.57	44.40	0027-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	67.26	10.89	6.22	7.13	43.03	17.11	50.16	0032-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	200.48	1.88	8.28	48.35	141.96	10.17	190.31	0037-1L
2852.00	cut	Sh/Clst: m gy	123.71	11.74	4.99	3.23	103.75	16.73	106.98	0041-1L
2897.00	cut	Sh/Clst: m gy	186.63	3.76	3.76	18.96	160.14	7.53	179.10	0046-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	100.51	9.60	11.73	19.60	59.58	21.33	79.18	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	222.60	21.02	15.28	16.06	170.25	36.30	186.31	0057-1L

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	Aro	Non-HC	
2310.00	cut	Sh/Clst: m lt gy	1.82	9.26	3.99	84.93	11.08	88.92	19.71	12.46	0009-1L
2320.00	cut	Sh/Clst: m lt gy	11.35	7.57	1.68	79.41	18.92	81.08	150.00	23.33	0010-1L
2370.00	cut	Sh/Clst: m lt gy	3.71	7.38	41.77	47.14	11.09	88.91	50.23	12.47	0013-1L
2483.00	cut	Sh/Clst: drk gy	12.43	8.28	13.92	65.37	20.71	79.29	150.00	26.12	0015-1L
2489.00	cut	Sh/Clst: drk gy	22.43	18.69	11.52	47.35	41.12	58.88	120.01	69.85	0017-1L
2501.00	cut	Sh/Clst: drk gy	2.14	4.28	15.74	77.84	6.43	93.57	50.07	6.87	0020-1L
2516.00	cut	Sh/Clst: drk gy	7.13	8.92	14.33	69.62	16.05	83.95	80.00	19.12	0024-1L
2528.00	cut	Sh/Clst: drk gy	4.60	9.98	12.47	72.96	14.57	85.43	46.08	17.06	0027-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	16.19	9.25	10.59	63.97	25.43	74.57	175.06	34.11	0032-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	0.94	4.13	24.12	70.81	5.07	94.93	22.74	5.34	0037-1L
2852.00	cut	Sh/Clst: m gy	9.49	4.03	2.61	83.86	13.52	86.48	235.21	15.64	0041-1L
2897.00	cut	Sh/Clst: m gy	2.02	2.02	10.16	85.81	4.03	95.97	100.00	4.20	0046-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	9.55	11.67	19.50	59.28	21.22	78.78	81.78	26.94	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	9.44	6.86	7.21	76.48	16.31	83.69	137.56	19.48	0057-1L

Table 7a: Quantitative Analysis of Saturated Fraction for well NOCS 34/10-39S

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
2310.00m	13.64	23.86	10.19	26.79	31.00	28.03	11.80	18.86	16.50	13.10	10.84	10.57	9.80	9.57	7.70	7.75	5.46	7.32	3.97	5.70	2.41	2.41	0.80
2320.00m	8.36	9.40	4.05	9.92	9.61	9.36	5.48	6.99	6.07	5.24	4.50	4.01	3.62	3.21	2.79	2.25	1.89	1.95	1.19	1.56	0.75	0.60	0.50
2370.00m	8.27	12.05	5.13	14.53	14.16	13.25	7.33	10.48	8.67	7.33	5.97	5.34	4.73	4.06	3.36	2.85	2.25	2.29	1.43	1.84	0.96	0.75	0.51
2483.00m	10.73	6.95	4.44	7.53	15.17	4.86	13.73	3.70	3.03	2.56	2.00	2.33	1.67	2.10	2.18	2.63	1.47	2.62	1.32	2.44	0.66	0.85	0.28
2489.00m	7.07	6.50	3.90	6.43	13.96	4.29	13.85	3.60	2.77	2.65	2.09	2.47	1.90	2.21	2.51	2.04	1.19	2.57	1.51	2.87	0.74	1.03	0.00
2501.00m	8.82	9.32	7.41	11.22	26.52	8.40	23.68	6.60	5.50	5.12	4.08	4.94	3.81	4.72	4.58	6.78	3.51	6.45	3.95	5.83	1.57	1.07	0.00
2516.00m	1.77	2.06	1.83	2.48	8.93	2.34	6.20	1.53	1.47	1.50	1.31	1.43	1.23	1.48	1.45	1.93	1.23	2.21	1.14	1.93	0.65	0.75	0.00
2528.00m	6.73	6.74	5.45	8.14	22.09	7.46	14.55	4.97	4.07	3.56	3.32	3.80	3.23	3.69	3.50	5.18	2.92	5.93	2.87	4.85	1.64	1.14	0.00
2561.00m	11.66	11.82	10.00	14.63	15.33	11.99	1.76	6.19	3.10	1.84	1.33	1.44	1.11	1.37	1.27	2.03	1.07	1.83	1.05	1.80	0.54	0.72	0.00
2636.00m	3.84	3.95	3.80	6.17	32.62	5.34	4.20	4.90	4.82	5.97	5.65	9.66	7.66	15.44	7.41	12.25	4.60	7.06	2.30	6.70	2.64	1.19	0.00
2852.00m	12.50	13.56	10.69	20.74	10.41	12.35	4.69	6.24	3.40	2.37	1.55	1.78	1.28	2.32	1.32	2.35	1.15	2.24	0.71	1.41	0.63	0.74	0.19
2897.00m	12.84	36.00	34.22	53.16	42.94	66.19	28.13	28.23	15.51	10.94	7.39	8.39	6.07	9.40	5.70	9.59	4.49	8.41	2.77	6.44	2.60	3.33	0.00
3041.00m	9.16	11.01	7.48	13.30	26.18	9.51	15.68	8.77	7.54	7.06	5.97	8.81	6.05	9.94	5.55	8.52	4.70	0.81	2.57	7.35	2.66	1.73	0.00
3131.00m	24.40	25.96	14.50	24.08	13.75	13.20	5.02	7.48	4.71	4.54	3.85	5.32	4.39	7.30	3.94	6.54	3.38	4.85	2.38	3.89	2.50	3.40	0.54

Table 7B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane/nC17	Phytane	CPI1	nC17	Sample
			nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
2310.00	cut	Sh/Clst: m lt gy	1.16	2.63	2.75	0.42	1.34	0.78	0009-1L
2320.00	cut	Sh/Clst: m lt gy	0.97	1.75	1.65	0.59	1.15	0.82	0010-1L
2370.00	cut	Sh/Clst: m lt gy	0.97	1.93	1.76	0.55	1.16	0.84	0013-1L
2483.00	cut	Sh/Clst: drk gy	2.01	1.11	0.71	2.82	1.60	0.74	0015-1L
2489.00	cut	Sh/Clst: drk gy	2.17	1.01	0.67	3.23	1.50	0.76	0017-1L
2501.00	cut	Sh/Clst: drk gy	2.36	1.12	0.84	2.82	1.62	0.62	0020-1L
2516.00	cut	Sh/Clst: drk gy	3.61	1.44	1.36	2.65	1.59	0.56	0024-1L
2528.00	cut	Sh/Clst: drk gy	2.71	1.52	1.39	1.95	1.68	0.61	0027-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	1.05	8.70	7.13	0.15	1.68	0.88	0032-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	5.29	7.77	6.72	0.79	2.17	0.33	0037-1L
2852.00	cut	Sh/Clst: m gy	0.50	2.22	1.32	0.38	2.02	0.90	0041-1L
2897.00	cut	Sh/Clst: m gy	0.81	1.53	1.90	0.43	1.97	0.85	0046-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	1.97	1.67	1.19	1.65	1.99	0.61	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	0.57	2.74	1.50	0.38	1.73	0.79	0057-1L

Table 8a: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT (3+2) /1MDBT	Sample	
2310.00	cut	Sh/Clst: m lt gy	-	-	-	4.78	1.66	2.52	1.40	-	-	0009-1L	
2320.00	cut	Sh/Clst: m lt gy	-	-	-	2.95	1.35	2.13	1.21	-	-	0010-1L	
2370.00	cut	Sh/Clst: m lt gy	-	-	-	5.17	0.78	1.21	0.87	-	-	0013-1L	
2483.00	cut	Sh/Clst: drk gy	-	0.75	-	1.25	1.54	1.91	1.33	-	-	0015-1L	
2489.00	cut	Sh/Clst: drk gy	0.92	1.39	-	0.68	0.97	0.90	0.98	-	-	0017-1L	
2501.00	cut	Sh/Clst: drk gy	0.64	1.39	-	1.20	0.88	0.76	0.93	-	-	0020-1L	
2516.00	cut	Sh/Clst: drk gy	0.65	1.24	-	-	0.46	-	0.67	-	-	0024-1L	
2528.00	cut	Sh/Clst: drk gy	0.71	1.18	-	1.32	0.86	0.87	0.92	-	-	0027-1L	
2561.00	cut	Sh/Clst: drk gy to m drk gy	0.91	1.28	0.35	1.10	0.79	0.78	0.88	-	-	0032-1L	
2636.00	cut	Sh/Clst: blk to drk brn blk	0.86	1.14	0.88	0.73	0.37	0.44	0.62	-	1.63	0.76	0037-1L
2852.00	cut	Sh/Clst: m gy	-	-	-	1.02	0.60	0.64	0.76	-	-	0041-1L	
2897.00	cut	Sh/Clst: m gy	-	-	-	0.98	0.43	0.44	0.66	-	-	0046-1L	
3041.00	cut	Sh/Clst: m gn gy to m ol gy	0.98	2.04	-	1.11	0.71	0.82	0.83	-	0.65	0.33	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	-	1.38	-	1.04	0.55	0.67	0.73	-	-	-	0057-1L

Table 8b: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 34/10-39S

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
2310.00	cut	Sh/Clst: m lt gy	0.77	0.58	0009-1L
2320.00	cut	Sh/Clst: m lt gy	0.65	0.51	0010-1L
2370.00	cut	Sh/Clst: m lt gy	0.57	0.44	0013-1L
2483.00	cut	Sh/Clst: drk gy	0.67	0.41	0015-1L
2489.00	cut	Sh/Clst: drk gy	0.51	0.23	0017-1L
2501.00	cut	Sh/Clst: drk gy	0.52	0.23	0020-1L
2516.00	cut	Sh/Clst: drk gy	0.34	-	0024-1L
2528.00	cut	Sh/Clst: drk gy	0.50	0.25	0027-1L
2561.00	cut	Sh/Clst: drk gy to m drk gy	0.50	0.25	0032-1L
2636.00	cut	Sh/Clst: blk to drk brn blk	0.32	0.19	0037-1L
2852.00	cut	Sh/Clst: m gy	0.47	0.25	0041-1L
2897.00	cut	Sh/Clst: m gy	0.43	0.22	0046-1L
3041.00	cut	Sh/Clst: m gn gy to m ol gy	0.49	0.29	0052-1L
3131.00	cut	Sh/Clst: m ol gy to m gy	0.43	0.26	0057-1L

Table 9a Variation in Triterpane Distribution (peak height) SIR for Well NOCS 34/10-39S

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
2310.00	Sh/Clst	1.88	0.65	0.13	0.33	0.25	0.02	0.04	0.11	0.04	0.06	0.87	0.30	0.24	38.95	0009-1
2320.00	Sh/Clst	1.18	0.54	0.12	0.33	0.25	0.04	0.08	0.24	0.07	0.08	0.90	0.30	0.19	48.77	0010-1
2370.00	Sh/Clst	1.13	0.53	0.12	0.37	0.27	0.04	0.09	0.23	0.08	0.08	0.90	0.32	0.20	48.73	0013-1
2483.00	Sh/Clst	4.14	0.81	0.16	0.24	0.19	0.05	0.00	0.01	0.00	0.02	0.80	0.24	0.33	22.09	0015-1
2489.00	Sh/Clst	3.33	0.77	0.15	0.22	0.18	0.04	-	-	-	0.02	0.83	0.23	0.29	23.30	0017-1
2501.00	Sh/Clst	5.60	0.85	0.18	0.29	0.22	0.04	-	-	-	0.02	0.83	0.28	0.30	28.62	0020-1
2516.00	Sh/Clst	13.18	0.93	0.21	0.40	0.28	0.04	-	-	-	0.01	0.78	0.33	0.38	29.88	0024-1
2528.00	Sh/Clst	11.89	0.92	0.22	0.40	0.28	0.04	-	-	-	0.02	0.78	0.33	0.38	28.02	0027-1
2561.00	Sh/Clst	6.96	0.87	0.19	0.31	0.24	0.04	-	-	-	0.02	0.82	0.30	0.33	26.36	0032-1
2636.00	Sh/Clst	58.20	0.98	0.24	0.32	0.24	0.05	0.05	0.16	0.05	0.01	0.77	0.28	0.36	27.28	0037-1
2852.00	Sh/Clst	9.07	0.90	0.31	0.50	0.33	0.05	0.03	0.06	0.03	0.14	0.75	0.36	0.39	32.87	0041-1
2897.00	Sh/Clst	10.58	0.91	0.28	0.46	0.31	0.04	0.04	0.09	0.04	0.07	0.74	0.34	0.41	33.86	0046-1
3041.00	Sh/Clst	2.54	0.72	0.16	0.34	0.26	0.07	-	-	-	0.02	0.85	0.28	0.23	42.93	0052-1
3131.00	Sh/Clst	18.90	0.95	0.29	0.64	0.39	0.04	0.04	0.06	0.04	0.03	0.74	0.41	0.39	48.61	0057-1

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 9b Variation in Sterane Distribution (peak height) SIR for Well NOCS 34/10-39S

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>
2310.00	Sh/Clst	0.33	26.23	70.39	1.92	0.82	0.58	0.42	0.54	0.36	1.61	0009-1
2320.00	Sh/Clst	0.47	33.53	73.18	1.46	0.80	0.54	0.39	0.58	0.50	2.05	0010-1
2370.00	Sh/Clst	0.43	32.32	72.71	1.43	0.80	0.57	0.41	0.57	0.48	1.97	0013-1
2483.00	Sh/Clst	0.32	8.13	46.40	1.43	0.84	0.23	0.16	0.30	0.09	0.47	0015-1
2489.00	Sh/Clst	0.33	8.43	43.77	1.63	0.82	0.22	0.16	0.28	0.09	0.42	0017-1
2501.00	Sh/Clst	0.40	9.12	52.89	1.58	0.86	0.26	0.18	0.36	0.10	0.62	0020-1
2516.00	Sh/Clst	0.46	9.91	59.64	1.38	0.88	0.23	0.16	0.42	0.11	0.82	0024-1
2528.00	Sh/Clst	0.50	9.43	59.20	1.34	0.88	0.27	0.19	0.42	0.10	0.80	0027-1
2561.00	Sh/Clst	0.43	9.88	55.71	1.78	0.86	0.31	0.21	0.39	0.11	0.70	0032-1
2636.00	Sh/Clst	0.34	10.80	65.73	0.20	0.90	0.13	0.09	0.49	0.12	1.07	0037-1
2852.00	Sh/Clst	0.47	16.52	60.61	1.75	0.82	0.65	0.52	0.43	0.20	0.92	0041-1
2897.00	Sh/Clst	0.27	12.09	52.64	1.67	0.82	0.58	0.47	0.36	0.14	0.63	0046-1
3041.00	Sh/Clst	0.31	12.19	36.52	1.23	0.70	0.10	0.08	0.22	0.14	0.33	0052-1
3131.00	Sh/Clst	0.42	20.81	47.11	0.96	0.68	0.38	0.28	0.31	0.26	0.56	0057-1

Table 9c: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 34/10-39S

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>
2310.00	Sh/Clst	0.41	0.41	0.17	0.17	0.20	0009-1
2320.00	Sh/Clst	0.33	0.40	0.15	0.12	0.17	0010-1
2370.00	Sh/Clst	0.30	0.34	0.13	0.11	0.16	0013-1
2483.00	Sh/Clst	0.35	0.23	0.10	0.14	0.15	0015-1
2489.00	Sh/Clst	0.35	0.21	0.10	0.14	0.15	0017-1
2501.00	Sh/Clst	0.33	0.27	0.11	0.14	0.15	0020-1
2516.00	Sh/Clst	0.31	0.21	0.14	0.16	0.24	0024-1
2528.00	Sh/Clst	0.24	0.21	0.12	0.11	0.18	0027-1
2561.00	Sh/Clst	0.28	0.21	0.11	0.12	0.19	0032-1
2636.00	Sh/Clst	0.29	0.22	0.17	0.14	0.34	0037-1
2852.00	Sh/Clst	0.56	0.42	0.28	0.33	0.44	0041-1
2897.00	Sh/Clst	0.59	0.49	0.27	0.30	0.40	0046-1
3041.00	Sh/Clst	0.26	0.17	0.08	0.11	0.12	0052-1

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 9c Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 34/10-39S

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>
3131.00	Sh/Clst	0.48	0.34	0.24	0.26	0.41	0057-1

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

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>
2310.00	Sh/Clst	0.40	0.29	0.26	0.22	0009-1
2320.00	Sh/Clst	0.60	0.42	0.46	0.37	0010-1
2370.00	Sh/Clst	0.23	0.14	0.14	0.12	0013-1
2483.00	Sh/Clst	0.17	0.11	0.08	0.06	0015-1
2489.00	Sh/Clst	0.13	0.08	0.06	0.05	0017-1
2501.00	Sh/Clst	0.14	0.07	0.08	0.06	0020-1
2516.00	Sh/Clst	0.19	0.12	0.11	0.07	0024-1
2528.00	Sh/Clst	0.17	0.10	0.10	0.06	0027-1
2561.00	Sh/Clst	0.16	0.10	0.09	0.06	0032-1
2636.00	Sh/Clst	0.25	0.16	0.07	0.06	0037-1
2852.00	Sh/Clst	0.41	0.28	0.26	0.19	0041-1
2897.00	Sh/Clst	0.39	0.26	0.26	0.19	0046-1
3041.00	Sh/Clst	0.13	0.07	0.08	0.05	0052-1
3131.00	Sh/Clst	0.45	0.29	0.26	0.18	0057-1

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

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
2310.00	Sh/Clst	0.52	0.69	0009-1
2320.00	Sh/Clst	0.32	0.85	0010-1
2370.00	Sh/Clst	0.58	0.68	0013-1
2483.00	Sh/Clst	0.90	0.14	0015-1
2489.00	Sh/Clst	0.91	0.13	0017-1
2501.00	Sh/Clst	0.92	0.13	0020-1
2516.00	Sh/Clst	0.92	0.18	0024-1
2528.00	Sh/Clst	0.90	0.22	0027-1
2561.00	Sh/Clst	0.91	0.17	0032-1
2636.00	Sh/Clst	0.85	0.39	0037-1
2852.00	Sh/Clst	0.82	0.41	0041-1
2897.00	Sh/Clst	0.81	0.35	0046-1
3041.00	Sh/Clst	0.69	0.54	0052-1

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

Ratio2: $g1 / g1 + I1$

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	
2310.00	Sh/Clst	46342.3 160611.9 197412.9	30597.1 63303.5 32998.9	11868.4 10864.5 51719.5	27280.8 81176.7 19468.5	4740.6 0.0 21213.2	44268.6 487079.6 12432.6	83210.2 74060.4 11676.5	18237.4 0.0 9848.4	0.0 96463.7 8786.3	0009-1
2320.00	Sh/Clst	80256.0 268296.0 258307.5	61930.5 140101.9 86573.1	23031.8 29926.2 90950.5	54321.4 114341.0 52841.1	11851.3 0.0 46608.0	98827.6 809813.4 29883.4	116699.8 85928.5 24859.4	65088.9 0.0 23666.9	0.0 189268.2 16087.8	0010-1
2370.00	Sh/Clst	77451.9 269561.7 256313.5	57617.1 133108.9 86077.6	24148.2 27705.3 90581.9	53814.4 118132.5 52181.8	11648.1 0.0 46357.1	94940.6 733351.3 30104.7	107357.9 85402.5 25802.2	63188.9 0.0 22783.0	0.0 181365.9 16347.3	0013-1
2483.00	Sh/Clst	155294.4 1164917.0 1839736.0	119894.8 492044.3 198585.9	84876.4 245207.0 700320.2	151794.4 810585.1 214313.7	62269.4 0.0 824808.3	289079.0 4897294.0 85090.4	1197189.0 1206314.0 299382.8	9918.6 211456.5 175154.6	143348.5 798854.2 764818.9	0015-1
2489.00	Sh/Clst	70733.8 619389.5 896001.0	52748.9 291259.7 107774.6	36166.5 121509.8 354857.3	72510.6 417247.6 123324.7	30020.3 0.0 398347.8	174428.2 2822105.0 52041.2	580152.4 581981.0 157368.2	0.0 0.0 111749.3	85205.6 405924.2 424816.6	0017-1

Table 9f Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 34/10-39S

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	29Ba	30O	30aβ	30Ba	30G	31aβS	
		31aβR	32aβS	32aβR	33aβS	33aβR	34aβS	34aβR	35aβS	35aβR	
2501.00	Sh/Clst	165696.8	139794.4	79052.8	192104.1	56952.2	343948.6	1925647.0	0.0	164191.0	0020-1
		2062150.0	552948.0	302822.6	1280394.0	0.0	7210294.0	1520836.0	288222.8	1542934.0	
		2445430.0	400122.7	998133.7	313283.0	852725.8	176826.2	409895.9	286779.0	821666.9	
2516.00	Sh/Clst	67778.6	60917.0	40098.2	118426.7	14150.9	108195.9	1426276.0	0.0	67341.4	0024-1
		1669081.0	225204.1	167998.1	1016369.0	0.0	4209844.0	1189759.0	0.0	1467152.0	
		1763155.0	299552.4	703067.8	166224.2	418588.9	104978.9	239406.1	135684.1	374022.3	
2528.00	Sh/Clst	105014.2	88008.0	50824.8	145735.1	19836.9	147994.7	1758994.0	0.0	89744.8	0027-1
		1932446.0	256298.6	179489.9	1190485.0	0.0	4851300.0	1407370.0	0.0	1646270.0	
		2093626.0	314572.8	807992.1	165015.3	438478.6	104172.2	243035.5	138391.0	346728.5	
2561.00	Sh/Clst	38000.6	28410.3	16145.7	44780.0	9849.9	57795.0	402494.6	0.0	32087.6	0032-1
		438088.3	90255.6	57171.4	282768.1	0.0	1396521.0	315301.1	0.0	329043.6	
		490949.8	68656.6	191755.6	42066.5	118809.2	26437.8	58943.2	35186.7	99876.9	
2636.00	Sh/Clst	12393.4	33189.1	6896.4	72417.3	2595.6	28677.1	1668958.0	221228.3	0.0	0037-1
		1348596.0	0.0	211496.3	786942.6	0.0	4166137.0	1214036.0	0.0	1268899.0	
		1327856.0	205305.9	547340.6	43116.8	132370.0	21613.5	47228.9	7782.0	12562.5	

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	29Ba	30O	30aß	30Ba	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
2852.00	Sh/Clst	252377.2 539731.6 587080.3	155374.3 77157.7 84384.6	61326.5 51354.0 172339.2	156211.2 270678.3 25148.8	29287.3 0.0 48764.2	72151.1 1085870.0 14028.2	654362.8 365384.9 21438.1	34698.7 0.0 6486.7	0.0 586446.1 9762.6	0041-1
2897.00	Sh/Clst	91433.0 293882.2 317792.9	46208.9 47212.7 51152.1	16551.1 28540.9 99924.2	71774.3 151088.7 16995.1	7718.6 0.0 38454.1	32629.3 640056.8 9105.5	345276.5 229425.7 16494.7	25162.1 0.0 5000.0	0.0 334922.3 14115.3	0046-1
3041.00	Sh/Clst	152946.2 2395769.0 2355374.0	112444.8 1146432.0 714019.4	50740.0 509711.7 949144.0	280398.5 863154.1 420965.9	34963.0 0.0 545244.5	638086.3 6979060.0 143121.5	1622366.0 1270852.0 215074.1	0.0 0.0 55495.8	0.0 2956830.0 87444.5	0052-1
3131.00	Sh/Clst	102532.1 1910511.0 1055083.0	90770.4 206413.0 335050.2	25029.6 129660.6 354173.8	271070.8 855450.2 113395.7	9959.2 0.0 110999.6	88594.8 2973452.0 52876.8	1674034.0 1039966.0 51169.8	114998.8 0.0 19150.1	0.0 1608435.0 19013.9	0057-1

Table 9g: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 34/10-39S

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daS	27daR	28dBS	28dBR	28daS*	Sample
		29dBS*	28daR*	27aaR	29dBR	29daS*	28aaS	29daR	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2310.00	Sh/Clst	63482.3	25950.6	45632.1	81331.5	17519.2	12643.4	27242.9	24287.6	30020.2	0009-1
		30291.9	32818.1	91294.2	24508.2	8894.9	8731.6	18199.0	28299.3		
		12224.4	7905.1	19556.9	16267.1	22238.3					
2320.00	Sh/Clst	149765.4	70681.8	112637.3	135851.2	35153.4	31427.8	61555.2	51994.0	51464.0	0010-1
		82874.5	81380.2	126451.8	62200.4	22003.2	26428.7	48210.6	65933.5		
		28744.2	26164.6	56957.3	49505.3	51875.0					
2370.00	Sh/Clst	163909.8	74381.4	118326.0	142138.9	37268.0	30363.3	64778.6	57071.7	63061.6	0013-1
		85628.3	83250.3	154743.0	66859.9	22797.4	27156.6	54249.8	70792.6		
		31643.1	24882.4	55229.9	47337.8	52102.2					
2483.00	Sh/Clst	717576.0	255535.5	1590707.0	1637552.0	675140.9	392362.9	611046.0	739641.8	1158287.0	0015-1
		997924.2	540893.7	3314240.0	895682.8	291095.0	276137.0	821965.7	512175.5		
		1739587.0	189317.1	674363.9	333637.4	2139907.0					
2489.00	Sh/Clst	354095.2	136133.2	849116.7	1086634.0	376249.8	227004.3	396206.7	405282.7	554589.4	0017-1
		514540.5	291006.8	1745807.0	463634.6	155939.3	147994.3	426531.6	285053.9		
		938221.0	102872.2	315732.0	159414.2	1118037.0					

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

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daS	27daR	28dBS	28dBR	28daS*	Sample
		29dBS*	28daR*	27aaR	29dBR	29daS*	28aaS	29daR	28BS		
		28aaR	29aaS	29BBR	29BS	29aaR					
2501.00	Sh/Clst	729861.8 1013688.0 1151677.0	254078.2 618882.2 163006.2	1728211.0 2600433.0 615658.6	1682774.0 892512.5 387794.4	707044.2 314902.7 1624857.0	459212.2 319415.6	564736.5 676485.0	620682.6 556940.8	894070.2	0020-1
2516.00	Sh/Clst	392634.5 784006.6 347103.7	113877.5 388865.5 94891.0	1026992.0 1187044.0 449362.7	1027346.0 622126.2 258150.5	417155.1 231700.3 862689.1	282666.4 194543.7	230870.0 351648.1	238384.4 317677.1	456765.5	0024-1
2528.00	Sh/Clst	496507.8 839520.9 369344.5	142216.2 390171.7 95207.0	1069890.0 1088631.0 463388.3	1068708.0 679707.8 269168.6	439737.8 252562.9 914703.1	300188.1 192336.9	294180.0 373375.0	271238.6 331907.1	451554.6	0027-1
2561.00	Sh/Clst	173468.5 229542.7 163034.1	55173.7 134411.2 31284.7	343903.4 448321.8 124544.7	482171.8 187025.8 74601.8	157823.5 69340.7 285369.9	102796.5 63902.3	110300.7 125739.9	104368.1 114021.2	170876.5	0032-1
2636.00	Sh/Clst	62789.1 267172.2 45326.0	18080.6 57075.8 31149.2	34344.3 67401.1 172258.3	63267.8 205288.4 104246.7	18869.8 98664.2 257234.5	18961.9 66544.5	48299.5 121138.3	33889.5 59252.6	32552.1	0037-1

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

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daS	27daR	28dBS	28dBR	28daS*	Sample
		29dBS*	28daR*	27aaR	29dBR	29daS*	28aaS	29daR	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2852.00	Sh/Clst	302360.6	127937.8	254128.2	222715.7	69118.5	59514.7	56548.6	47390.7	113911.7	0041-1
		151777.1	83384.4	290837.2	106789.3	42861.1	32118.9	45212.7	56317.2		
		38921.2	22055.6	62898.6	39766.6	111414.8					
2897.00	Sh/Clst	148984.9	52922.6	100140.6	126345.0	38218.9	29078.8	27504.7	25832.6	86819.2	0046-1
		68466.3	34756.3	264662.1	54806.6	20872.6	16732.2	32194.1	23140.5		
		39819.3	11515.4	34747.8	18193.1	83751.5					
3041.00	Sh/Clst	399213.4	168432.6	1525952.0	1392477.0	398740.9	392467.0	354588.6	355280.6	844919.5	0052-1
		1178238.0	571088.3	3372618.0	991058.6	317000.4	269159.1	537248.5	337299.8		
		1148133.0	464007.3	826851.0	267715.0	3341540.0					
3131.00	Sh/Clst	129968.4	55089.4	118374.4	128519.2	35161.4	39196.3	43021.9	30427.2	63911.1	0057-1
		143036.3	57601.9	164777.7	98891.9	39604.6	52478.1	52500.8	40556.8		
		38998.4	43626.5	61134.0	32254.0	166035.2					

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

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
2310.00	Sh/Clst	508.8	507.3	586.0	1974.3	776.9	1057.3	735.6	0009-1
2320.00	Sh/Clst	528.7	704.5	667.1	2647.2	1168.9	1469.9	1068.5	0010-1
2370.00	Sh/Clst	815.6	995.1	1266.5	4182.9	2091.8	2387.1	1941.6	0013-1
2483.00	Sh/Clst	2977.0	1691.1	5847.1	17327.2	4587.8	8649.9	5575.1	0015-1
2489.00	Sh/Clst	2950.6	1527.4	5930.8	16860.2	4697.1	8469.9	5599.4	0017-1
2501.00	Sh/Clst	872.7	644.0	1846.7	4955.7	1487.0	2043.4	1738.6	0020-1
2516.00	Sh/Clst	1690.7	1026.2	2164.9	5438.6	2616.5	2531.8	3789.0	0024-1
2528.00	Sh/Clst	3301.1	2799.9	5272.5	14577.5	8038.4	7172.8	10598.9	0027-1
2561.00	Sh/Clst	1809.0	1240.9	3231.6	7928.9	4050.4	3981.6	4716.7	0032-1
2636.00	Sh/Clst	2285.8	1576.9	748.6	4377.8	5536.3	2625.4	5540.0	0037-1
2852.00	Sh/Clst	766.7	444.9	577.0	993.1	535.1	425.8	602.5	0041-1
2897.00	Sh/Clst	1109.1	735.3	844.1	1652.1	909.0	851.9	772.6	0046-1
3041.00	Sh/Clst	4397.1	2493.9	11909.1	31306.9	10104.2	13547.0	12362.1	0052-1
3131.00	Sh/Clst	1180.9	676.9	792.3	1704.1	1232.5	823.4	1298.9	0057-1

Table 9j: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 34/10-39S

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
2310.00	Sh/Clst	989.7	593.8	312.4	349.9	1457.2	232.1	1322.3	1485.6	336.3	0009-1
2320.00	Sh/Clst	1290.3	619.3	238.7	249.1	870.6	125.7	669.0	960.2	190.5	0010-1
2370.00	Sh/Clst	1392.7	800.7	1051.1	974.3	4739.1	611.5	3960.6	4052.7	912.6	0013-1
2483.00	Sh/Clst	15782.0	9055.8	29387.6	35913.2	76665.2	7100.2	104786.4	99657.6	35423.3	0015-1
2489.00	Sh/Clst	13230.8	7773.4	30034.2	38132.3	85300.9	7803.4	117104.8	108616.9	38769.5	0017-1
2501.00	Sh/Clst	5409.5	2708.7	11530.5	14831.7	33507.1	3115.1	26474.0	32983.5	11195.7	0020-1
2516.00	Sh/Clst	9236.8	5104.8	21651.8	22471.1	38239.2	5846.1	36771.8	44110.5	17006.1	0024-1
2528.00	Sh/Clst	17612.8	9410.9	46213.8	49313.5	88506.1	12383.7	79192.4	94483.5	37783.9	0027-1
2561.00	Sh/Clst	9868.0	5930.9	21572.5	25243.8	50818.1	6015.2	46327.0	58055.6	22488.3	0032-1
2636.00	Sh/Clst	3952.7	2327.4	2203.8	2485.5	11969.3	5882.9	37616.9	35012.5	8726.4	0037-1
2852.00	Sh/Clst	2152.2	1205.3	1819.5	1594.9	3112.7	686.8	3134.8	3388.0	882.6	0041-1
2897.00	Sh/Clst	3151.4	1731.6	2649.8	2397.5	4924.8	937.9	3979.3	5085.8	1407.6	0046-1
3041.00	Sh/Clst	6876.0	3172.5	18279.9	24881.9	45046.2	4813.0	33889.6	35241.0	10669.7	0052-1
3131.00	Sh/Clst	1726.2	855.6	1243.8	954.9	2091.8	744.5	2945.2	3108.1	463.9	0057-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aß</u>	<u>25nor30aß</u>	<u>Sample</u>
2310.00	Sh/Clst	30956.8	0.0	0009-1
2320.00	Sh/Clst	102946.5	0.0	0010-1
2370.00	Sh/Clst	80050.6	0.0	0013-1
2483.00	Sh/Clst	141607.4	74722.8	0015-1
2489.00	Sh/Clst	0.0	17705.0	0017-1
2501.00	Sh/Clst	0.0	68799.0	0020-1
2516.00	Sh/Clst	0.0	0.0	0024-1
2528.00	Sh/Clst	0.0	0.0	0027-1
2561.00	Sh/Clst	0.0	8085.5	0032-1
2636.00	Sh/Clst	15601.0	0.0	0037-1
2852.00	Sh/Clst	35053.2	0.0	0041-1
2897.00	Sh/Clst	0.0	0.0	0046-1
3041.00	Sh/Clst	113726.8	0.0	0052-1
3131.00	Sh/Clst	0.0	0.0	0057-1

Table 9k: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 34/10-39S

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
2310.00	Sh/Clst	36638.0	47341.0	27686.1	46683.3	32008.7	28709.0	7252.7	6113.2	0009-1
2320.00	Sh/Clst	109359.9	120606.0	75620.5	105466.0	88906.1	84417.3	22241.3	21966.8	0010-1
2370.00	Sh/Clst	110151.6	122604.4	84361.8	113940.6	88178.7	87193.2	23137.3	23006.2	0013-1
2483.00	Sh/Clst	809369.9	683667.3	890811.2	804786.8	666092.6	541657.2	152436.0	215388.5	0015-1
2489.00	Sh/Clst	401491.6	373312.7	446736.7	434717.6	319488.1	264879.6	77000.4	105353.6	0017-1
2501.00	Sh/Clst	989336.7	873602.0	861493.9	892369.2	740832.4	646463.8	151295.9	171028.9	0020-1
2516.00	Sh/Clst	633853.2	549153.6	435046.4	476907.4	574633.5	452036.1	68426.2	75326.8	0024-1
2528.00	Sh/Clst	639609.0	551487.3	449016.6	505720.2	606592.2	475223.1	75217.2	81863.6	0027-1
2561.00	Sh/Clst	192570.6	184890.6	147174.9	166856.1	161034.4	125103.3	23063.2	24174.0	0032-1
2636.00	Sh/Clst	89071.6	36786.7	49579.0	81046.4	230924.4	164844.6	3765.7	3971.5	0037-1
2852.00	Sh/Clst	117226.7	108757.7	56997.1	79310.5	83043.9	67978.4	10084.6	11099.9	0041-1
2897.00	Sh/Clst	46448.8	43328.0	28096.4	34963.1	38683.8	29753.9	5331.2	6587.7	0046-1
3041.00	Sh/Clst	789374.8	743001.0	334159.4	417656.3	624363.2	404416.0	80179.4	118699.8	0052-1
3131.00	Sh/Clst	58381.4	59110.6	29673.5	54872.7	70500.9	51186.1	4661.9	6483.0	0057-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Standard</u>	<u>Amount</u>	<u>Weight</u>	<u>Sample</u>
2310.00	Sh/Clst	2848176.0	1.400	0.1	0009-1
2320.00	Sh/Clst	3535503.0	1.400	0.6	0010-1
2370.00	Sh/Clst	3900520.0	1.400	0.4	0013-1
2483.00	Sh/Clst	3232002.0	1.400	1.5	0015-1
2489.00	Sh/Clst	1061655.0	1.400	1.8	0017-1
2501.00	Sh/Clst	4697080.0	1.400	0.6	0020-1
2516.00	Sh/Clst	5098499.0	1.400	0.8	0024-1
2528.00	Sh/Clst	3996585.0	1.400	0.6	0027-1
2561.00	Sh/Clst	1001443.0	1.400	2.1	0032-1
2636.00	Sh/Clst	1551891.0	1.400	0.5	0037-1
2852.00	Sh/Clst	6271107.0	1.400	0.7	0041-1
2897.00	Sh/Clst	5475352.0	1.400	0.1	0046-1
3041.00	Sh/Clst	2682489.0	1.400	0.9	0052-1
3131.00	Sh/Clst	3126601.0	1.400	1.1	0057-1

Table 9m Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 34/10-39S

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	
2310.00	Sh/Clst	227791.9 789476.1 970368.7	150397.9 311163.8 162203.5	58338.3 53403.6 254223.4	134096.9 399018.4 95696.2	23302.1 0.0 104272.1	217599.2 2394204.0 61111.4	409013.8 364038.4 57395.1	89644.8 0.0 48409.0	0.0 474160.3 43188.5	0009-1
2320.00	Sh/Clst	52966.7 177067.8 170475.7	40872.4 92463.3 57135.8	15200.4 19750.5 60024.8	35850.6 75461.9 34873.7	7821.6 0.0 30760.0	65223.4 534454.2 19722.2	77018.6 56710.4 16406.5	42956.8 0.0 15619.5	0.0 124911.7 10617.5	0010-1
2370.00	Sh/Clst	69498.9 241882.1 229994.3	51700.7 119440.8 77238.9	21668.6 24860.4 81280.6	48288.5 106002.2 46823.6	10452.0 0.0 41596.9	85191.7 658048.1 27013.5	96334.0 76633.0 23152.8	56700.4 0.0 20443.6	0.0 162742.6 14668.7	0013-1
2483.00	Sh/Clst	44845.7 336403.2 531276.6	34623.1 142091.9 57347.4	24510.5 70810.6 202237.5	43835.0 234079.7 61889.2	17982.1 0.0 238187.1	83479.9 1414234.1 24572.3	345722.7 348357.8 86455.4	2864.3 61064.1 50580.9	41396.0 230692.1 220863.4	0015-1
2489.00	Sh/Clst	51820.2 453770.2 656418.2	38644.3 213379.4 78956.6	26495.9 89019.1 259971.6	53121.9 305679.3 90348.8	21993.1 0.0 291833.1	127787.6 2067499.0 38125.8	425024.7 426364.4 115289.3	0.0 0.0 81868.5	62422.4 297383.6 311224.4	0017-1

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	29Ba	300	30aß	30Ba	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
2501.00	Sh/Clst	82312.0 1024398.8 1214798.0	69444.6 274683.8 198766.0	39270.5 150430.9 495835.4	95430.1 636051.8 155627.2	28291.7 0.0 423602.2	170860.8 3581803.7 87840.6	956589.3 755494.3 203620.9	0.0 143178.3 142461.1	81563.9 766471.8 408173.3	0020-1
2516.00	Sh/Clst	23264.2 572892.4 605182.3	20909.0 77298.7 102817.9	13763.2 57663.4 241319.8	40648.6 348856.7 57054.5	4857.1 0.0 143675.7	37137.0 1444979.5 36032.8	489552.5 408370.8 82173.3	0.0 0.0 46572.0	23114.2 503582.7 128378.8	0024-1
2528.00	Sh/Clst	61310.6 1128223.4 1222325.4	51381.8 149635.3 183657.6	29673.1 104791.9 471731.5	85084.8 695043.0 96341.2	11581.4 0.0 255997.7	86404.0 2832343.2 60819.0	1026956.6 821667.3 141891.8	0.0 0.0 80797.1	52395.9 961144.8 202431.1	0027-1
2561.00	Sh/Clst	25297.3 291638.1 326828.3	18912.9 60083.7 45705.1	10748.3 38059.3 127652.9	29810.3 188240.4 28003.9	6557.2 0.0 79092.0	38474.5 929672.6 17599.8	267943.1 209897.9 39238.9	0.0 0.0 23424.0	21360.9 219046.3 66488.7	0032-1
2636.00	Sh/Clst	22360.8 2433205.0 2395784.7	59881.5 0.0 370423.3	12442.7 381592.3 987539.6	130659.0 1419841.6 77793.5	4683.0 0.0 238828.6	51740.7 7516754.5 38996.2	3011218.2 2190425.0 85212.8	399151.3 0.0 14040.6	0.0 2289411.7 22665.9	0037-1

Table 9m: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 34/10-39S

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	
2852.00	Sh/Clst	80488.9 172132.8 187233.4	49552.4 24607.4 26912.2	19558.4 16378.0 54962.9	49819.3 86325.5 8020.5	9340.4 0.0 15552.0	23010.6 346308.8 4473.9	208691.3 116529.6 6837.1	11066.2 0.0 2068.8	0.0 187031.1 3113.5	0041-1
2897.00	Sh/Clst	233786.2 751431.3 812568.9	118152.1 120718.7 130791.5	42319.8 72976.7 255497.5	183520.6 386320.7 43454.9	19735.7 0.0 98323.8	83430.4 1636569.9 23282.0	882842.1 586621.6 42175.4	64337.4 0.0 12784.6	0.0 856367.3 36091.7	0046-1
3041.00	Sh/Clst	88692.4 1389288.7 1365864.0	65205.9 664807.5 414054.6	29423.8 295578.1 550401.6	162601.0 500536.7 244115.0	20274.8 0.0 316183.3	370021.6 4047105.5 82995.1	940798.1 736957.7 124719.9	0.0 0.0 32181.6	0.0 1714644.0 50708.4	0052-1
3131.00	Sh/Clst	41737.1 777700.6 429486.5	36949.4 84023.3 136386.9	10188.7 52780.2 144171.5	110343.2 348223.1 46159.3	4054.0 0.0 45184.0	36063.8 1210385.7 21524.3	681439.3 423332.9 20829.4	46811.9 0.0 7795.3	0.0 654736.3 7739.9	0057-1

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daS	27daR	28dBS	28dBR	28daS*	Sample
		29dBS*	28daR*	27aaR	29dBR	29daS*	28aaS	29daR	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2310.00	Sh/Clst	312042.8 148897.4 60088.3	127558.0 161315.2 38857.1	224301.0 448749.9 96130.4	399779.1 120468.3 79959.8	86114.4 43722.0 109310.7	62147.5 42919.7	133910.6 89456.0	119383.8 139103.2	147561.8	0009-1
2320.00	Sh/Clst	98841.0 54694.9 18970.4	46648.0 53708.7 17267.9	74337.5 83454.6 37590.2	89658.0 41050.5 32672.1	23200.3 14521.5 34236.0	20741.5 17442.2	40624.7 31817.7	34314.6 43514.2	33964.8	0010-1
2370.00	Sh/Clst	147078.9 76835.6 28393.8	66743.6 74701.9 22327.3	106175.8 138853.4 49558.7	127543.6 59994.4 42477.0	33441.2 20456.5 46752.1	27245.5 24368.1	58126.9 48679.2	51211.4 63523.4	56586.2	0013-1
2483.00	Sh/Clst	207220.7 288179.3 502355.7	73793.2 156198.6 54670.7	459362.3 957081.9 194741.9	472890.1 258654.1 96347.4	194966.3 84062.0 617959.6	113306.0 79742.5	176457.1 237366.2	213592.8 147905.4	334488.6	0015-1
2489.00	Sh/Clst	259413.2 376956.9 687348.9	99732.4 213194.2 75365.1	622070.4 1278993.6 231308.0	796077.6 339662.8 116788.2	275643.9 114242.5 819083.8	166305.3 108421.9	290264.5 312480.8	296913.7 208833.0	406297.1	0017-1

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

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daS	27daR	28dBS	28dBR	28daS*	Sample
		29dBS*	28daR*	27aaR	29dBR	29daS*	28aaS	29daR	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2501.00	Sh/Clst	362568.0 503562.2 572109.9	126216.5 307437.5 80975.4	858510.4 1291797.6 305836.1	835939.1 443366.8 192641.7	351233.1 156431.8 807168.1	228119.4 158673.7	280539.9 336052.4	308331.9 276667.3	444140.6	0020-1
2516.00	Sh/Clst	134767.2 269101.1 119139.3	39087.1 133473.5 32570.2	352502.9 407438.9 154238.5	352624.5 213537.5 88607.1	143183.6 79528.4 296107.9	97021.9 66774.8	79243.4 120699.1	81822.6 109038.9	156779.4	0024-1
2528.00	Sh/Clst	289877.0 490139.0 215635.1	83030.3 227794.6 55584.9	624635.8 635577.4 270540.8	623945.7 396835.0 157149.2	256732.9 147454.2 534032.8	175259.3 112292.4	171751.6 217988.2	158357.7 193777.9	263631.9	0027-1
2561.00	Sh/Clst	115479.0 152808.0 108532.8	36729.5 89478.4 20826.4	228938.6 298450.6 82910.2	320984.7 124504.2 49662.9	105064.1 46160.5 189972.5	68432.3 42540.2	73427.9 83705.8	69478.5 75904.6	113753.5	0032-1
2636.00	Sh/Clst	113287.3 482045.6 81779.5	32622.0 102979.1 56200.9	61965.8 121608.6 310797.1	114151.0 370391.7 188087.2	34045.8 178015.0 464115.5	34212.1 120062.9	87144.4 218563.8	61145.2 106906.5	58732.1	0037-1

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

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daS	27daR	28dBS	28dBR	28daS*	Sample
		29dBS*	28daR*	27aaR	29dBR	29daS*	28aaS	29daR	28BS		
		28aaR	29aaS	29BSR	29BS	29aaR					
2852.00	Sh/Clst	96429.7	40802.3	81047.3	71029.1	22043.5	18980.6	18034.6	15114.0	36329.1	0041-1
		48405.2	26593.2	92754.6	34057.6	13669.4	10243.5	14419.4	17960.9		
		12412.9	7034.0	20059.8	12682.5	35532.7					
2897.00	Sh/Clst	380941.5	135318.6	256050.8	323053.2	97722.5	74351.9	70327.1	66051.6	221989.3	0046-1
		175062.5	88869.0	676718.1	140135.8	53369.5	42782.8	82317.4	59168.2		
		101814.6	29444.0	88847.2	46518.2	214145.3					
3041.00	Sh/Clst	231500.9	97672.8	884888.3	807487.2	231226.9	227588.7	205623.3	206024.6	489962.6	0052-1
		683251.6	331169.9	1955756.4	574707.6	183826.2	156083.4	311546.4	195597.7		
		665793.9	269074.4	479484.8	155246.0	1937734.4					
3131.00	Sh/Clst	52905.5	22424.9	48186.0	52315.6	14312.9	15955.4	17512.7	12385.8	26015.9	0057-1
		58225.0	23447.7	67075.1	40255.3	16121.6	21361.9	21371.2	16509.2		
		15874.9	17758.8	24885.5	13129.5	67587.0					

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

Table 10a Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 34/10-39S

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>
2310.00	cut	Sh/Clst	-27.79	-26.31	-26.73	-27.13	-27.22	-	0009-1
2320.00	cut	Sh/Clst	-28.06	-26.34	-24.06	-26.43	-27.29	-	0010-1
2370.00	cut	Sh/Clst	-27.65	-24.81	-25.15	-25.25	-26.18	-	0013-1
2483.00	cut	Sh/Clst	-28.84	-27.62	-30.30	-30.29	-28.94	-28.75	0015-1
2489.00	cut	Sh/Clst	-29.90	-28.23	-30.37	-30.01	-28.16	-28.65	0017-1
2501.00	cut	Sh/Clst	-29.01	-27.86	-27.24	-29.57	-26.87	-26.39	0020-1
2516.00	cut	Sh/Clst	-26.81	-24.67	-26.45	-27.22	-25.31	-24.13	0024-1
2528.00	cut	Sh/Clst	-27.10	-25.21	-27.31	-27.55	-26.13	-24.45	0027-1
2561.00	cut	Sh/Clst	-27.78	-25.21	-26.85	-27.31	-26.04	-25.35	0032-1
2636.00	cut	Sh/Clst	-27.81	-25.30	-25.81	-28.87	-25.52	-24.94	0037-1
2852.00	cut	Sh/Clst	-26.52	-26.05	-23.73	-26.27	-23.45	-26.14	0041-1
2897.00	cut	Sh/Clst	-25.00	-23.04	-22.27	-25.24	-23.61	-22.73	0046-1
3041.00	cut	Sh/Clst	-28.42	-27.28	-28.76	-27.52	-27.42	-28.04	0052-1
3131.00	cut	Sh/Clst	-25.10	-26.04	-25.11	-28.25	-24.73	-24.39	0057-1

Table 10b Tabulation of cv values from carbon isotope data for well NOCS 34/10-39S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Interpretation</u>	<u>Sample</u>
2310.00	cut	Sh/Clst	-26.31	-26.73	-4.43	Marine	0009-1
2320.00	cut	Sh/Clst	-26.34	-24.06	1.58	Terrigenous	0010-1
2370.00	cut	Sh/Clst	-24.81	-25.15	-4.71	Marine	0013-1
2483.00	cut	Sh/Clst	-27.62	-30.30	-9.04	Marine	0015-1
2489.00	cut	Sh/Clst	-28.23	-30.37	-7.65	Marine	0017-1
2501.00	cut	Sh/Clst	-27.86	-27.24	-1.64	Marine	0020-1
2516.00	cut	Sh/Clst	-24.67	-26.45	-7.95	Marine	0024-1
2528.00	cut	Sh/Clst	-25.21	-27.31	-8.50	Marine	0027-1
2561.00	cut	Sh/Clst	-25.21	-26.85	-7.48	Marine	0032-1
2636.00	cut	Sh/Clst	-25.30	-25.81	-4.94	Marine	0037-1
2852.00	cut	Sh/Clst	-26.05	-23.73	1.58	Terrigenous	0041-1
2897.00	cut	Sh/Clst	-23.04	-22.27	-2.80	Marine	0046-1
3041.00	cut	Sh/Clst	-27.28	-28.76	-6.48	Marine	0052-1
3131.00	cut	Sh/Clst	-26.04	-25.11	-1.51	Marine	0057-1