

GEOCHEMICAL INTERPRETATION REPORT

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GEOCHEMICAL ANALYSIS OF WELL NOCS 34/10-41S and ST2

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PAGE
1 of 1

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Chapter 1

INTRODUCTION

1.1 General Well Information

The well 34/10-41S is located in the area directly west of Gullfaks. The 34/10 block and adjoining blocks are shown in Figure 1.1.

The aims of the Statoil-designed analytical program were to evaluate the source rock sections of the Heather and Drake Formations and any oil shows.

A KCl-Glycol mud system was used in drilling this well.

1.2 Analytical Program

The analytical program for well NOCS 34/10-41S decided by Statoil and the number of samples for the individual analyses are listed in Table 1 (note that due to problems with abundance of sandstones in the Cook Fm. combined samples were analysed (see Table 8 note)).

Table 1. Analytical programme

Sample no.	Sample depth	Sample type	←-----screening-----→					
			Table 2 Headspace/ occluded gas	Table 2 Headspace $\delta^{13}C_1$	Table 3 Lithological descr.	Table 4 Vitrinite reflectance	Table 5 TOC	Table 5 Rock Eval
Source rock intervals								
Heather	2507m	cutt			x		x	x
Heather	2513m	cutt			x		x	x
Heather	2516m	swc			x		x	x
Heather	2519m	cutt			x		x	x
Heather	2526m	swc			x		x	x
Heather	2528m	cutt			x		x	x
Heather	2537m	swc			x		x	x
Heather	2540m	cutt			x		x	x
Heather	2545m	swc			x		x	x
Heather	2546m	cutt			x		x	x
Heather	2549m	cutt			x		x	x
Drake	2886m	cutt			x		x	x
Drake	2911m	cutt			x		x	x
Drake	2935m	cutt			x		x	x
Drake	2965m	cutt			x		x	x
Drake	2992m	cutt			x		x	x
Reservoir intervals								
Brent	2555m	cutt			x			x
Brent	2558m	cutt			x			x
Brent	2564m	cutt			x			x
Brent	2570m	cutt			x			x
Brent	2576m	cutt			x			x
Brent	2585m	cutt			x			x
Brent	2588m	cutt			x			x
Brent	2597m	cutt			x			x
Brent	2610m	cutt			x			x
Brent	2619m	cutt			x			x
Brent	2625m	cutt			x			x
Brent	2631m	cutt			x			x
Cook	3004m	cutt			x			x
Cook	3016m	cutt			x			x
Cook	3025m	cutt			x			x
Cook	3031m	cutt			x			x
Statfjord	3366m	cutt			x			x
Statfjord	3378m	cutt			x			x
Statfjord	3390m	cutt			x			x
Statfjord	3396m	cutt			x			x
	Total		0	0	36	0	16	36

Sample depth	Table 6 TE-GC	Table 6 Py-GC	Table 7 Kerogen description	Table 8 Bulk composition	Table 9 GC sats	Table 9 GC arom
Source rock intervals						
2507m		x		x	x	x
2513m						
2516m						
2519m		x		x	x	x
2526m						
2528m		x		x	x	x
2537m						
2540m		x		x	x	x
2545m						
2546m						
2549m		x		x	x	x
2886m		x		x	x	x
2911m		x		x	x	x
2935m						
2965m						
2992m		x		x	x	x
Reservoir intervals						
2555m	x					
2558m	x			x	x	x
2564m	x					
2570m	x					
2576m	x			x	x	x
2585m	x					
2588m						
2597m						
2610m				x	x	x
2619m						
2625m						
2631m						
3004m				x	x	x
3016m				x	x	x
3025m						
3031m						
3366m				x	x	x
3378m						
3390m						
3396m				x	x	x
Total	6	8	0	15	15	15

Sample depth	Table 10	Table 10	Table 10	Table 11	Table 12	Table 13	Table 14	Other analyses
	Carbon isotopes of....			GCMS sats	GCMS aroms	Light HCs	Gas composition	
	kerogen	oil/EOM	fractions					
Source rock intervals								
2507m		x	x	x	x			
2513m								
2516m								
2519m		x	x	x	x			
2526m								
2528m		x	x	x	x			
2537m								
2540m		x	x	x	x			
2545m								
2546m								
2549m		x	x	x	x			
2886m		x	x	x	x			
2911m		x	x	x	x			
2935m								
2965m								
2992m		x	x	x	x			
Reservoir intervals								
2555m								
2558m		x	x	x	x			
2564m								
2570m								
2576m		x	x	x	x			
2585m								
2588m								
2597m								
2610m		x	x	x	x			
2619m								
2625m								
2631m								
3004m		x	x	x	x			
3016m		x	x	x	x			
3025m								
3031m								
3366m		x	x	x	x			
3378m								
3390m								
3396m		x	x	x	x			
Total	0	15	15	15	15	0	0	0

Table 3 : Lithology description for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
2507.00						0001
	1.33	100	Sh/Clst: m gy to m drk gy, st			0001-1L
			tr Ca : w, brn gy			0001-2L
			tr S/Sst : w, glauc, f			0001-3L
2513.00						0002
		45	Sh/Clst: lt gy to m gy, st			0002-1L
		25	Sltst : m gy, calc, pyr, s, mic			0002-2L
		15	S/Sst : w, pyr, glauc, f			0002-3L
		15	Ca : w to gy w, pyr, lam			0002-4L
2516.00	swc					0003
	1.91	100	Sh/Clst: drk brn gy, mic			0003-1L
2519.00						0037
	1.06	75	Sh/Clst: lt gy to m gy, slt, mic			0037-1L
		15	Ca : w to gy w			0037-2L
		10	S/Sst : gy w, f			0037-3L
2526.00	swc					0004
	1.49	100	Sh/Clst: drk brn gy, mic			0004-1L
2528.00						0008
	1.12	75	Sh/Clst: lt gy to m gy, slt, mic			0008-1L
		20	S/Sst : gy w, pyr, f, l			0008-2L
		5	Ca : w to gy w, pyr			0008-3L
			tr Cont : dd			0008-4L
2537.00	swc					0006
	2.38	100	Sh/Clst: drk brn gy, mic			0006-1L

Table 3 : Lithology description for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2540.00						0009
	1.09	55	Sh/Clst:	lt gy to m gy, slt, mic		0009-1L
		35	S/Sst	: gy w, pyr, f, l		0009-2L
		10	Ca	: w to gy w, lt brn gy to brn gy, pyr		0009-3L
			tr Cont	: dd		0009-4L
			tr Sh/Clst:	drk brn gy, mic		0009-5L
2545.00	swc					0007
	2.28	100	Sh/Clst:	drk brn gy, mic		0007-1L
2546.00						0010
	1.26	60	Sh/Clst:	lt gy to m gy, slt, mic		0010-1L
		20	S/Sst	: gy w, pyr, f, l		0010-2L
		10	Ca	: w to gy w, lt brn gy to brn gy, pyr		0010-3L
		10	Sh/Clst:	drk brn gy, mic		0010-4L
2549.00						0011
	1.21	60	Sh/Clst:	lt gy to m gy, slt, mic		0011-1L
		30	S/Sst	: gy w, pyr, f, l		0011-2L
		5	Ca	: w to gy w, lt brn gy to brn gy, pyr		0011-3L
		5	Sh/Clst:	drk brn gy, mic		0011-4L
2555.00						0012
		50	Ca	: w to gy w, pyr, s		0012-3L
		40	Sh/Clst:	lt gy to m gy, slt, mic		0012-1L
		10	S/Sst	: gy w, pyr, crs, l		0012-2L
2558.00						0013
		40	Sh/Clst:	lt gy to m gy, slt, mic		0013-1L
		30	S/Sst	: gy w, pyr, crs, l		0013-2L
		30	Ca	: w to gy w, pyr, s		0013-3L

Table 3 : Lithology description for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2564.00						0014
			40	Ca : w to gy w, pyr, s		0014-3L
			35	S/Sst : gy w, pyr, crs, l		0014-2L
			25	Sh/Clst: lt gy to m gy, slt, mic		0014-1L
2570.00						0015
			40	Ca : w to gy w, pyr, s		0015-3L
			35	S/Sst : gy w, pyr, crs, l		0015-2L
			25	Sh/Clst: lt gy to m gy, slt, mic		0015-1L
2576.00						0016
			40	Ca : w to gy w, pyr, s		0016-3L
			35	S/Sst : gy w, pyr, crs, l		0016-2L
			25	Sh/Clst: lt gy to m gy, slt, mic		0016-1L
2585.00						0017
			45	Ca : w to gy w, pyr, s		0017-3L
			35	S/Sst : gy w, pyr, crs, l		0017-2L
			20	Sh/Clst: lt gy to m gy, slt, mic		0017-1L
2588.00						0018
			50	S/Sst : gy w, pyr, crs, l		0018-2L
			30	Ca : w to gy w, pyr, s		0018-3L
			20	Sh/Clst: lt gy to m gy, slt, mic		0018-1L
2597.00						0019
			35	Sh/Clst: m gy to drk gy, slt, mic		0019-1L
			35	S/Sst : gy w, pyr, crs, l		0019-2L
			30	Ca : w to gy w, pyr, s		0019-3L
			tr	Coal : blk		0019-4L
2610.00						0020
			50	Ca : w to gy w, pyr, s		0020-3L
			40	S/Sst : gy w, pyr, crs, l		0020-2L
			10	Sh/Clst: m gy to drk gy, slt, mic		0020-1L
			tr	Coal : blk		0020-4L

Table 3 : Lithology description for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2619.00						0021
				70 Ca : w to gy w, pyr, s		0021-3L
				25 S/Sst : gy w, pyr, crs, l		0021-2L
				5 Sh/Clst: m gy to drk gy, slt, mic		0021-1L
				tr Coal : blk		0021-4L
2625.00						0022
				50 Ca : w to gy w, pyr, s		0022-3L
				45 S/Sst : gy w, pyr, crs, l		0022-2L
				5 Sh/Clst: m gy to drk gy, slt, mic		0022-1L
				tr Coal : blk		0022-4L
2631.00						0023
				65 S/Sst : gy w, pyr, crs, l		0023-2L
				30 Ca : w to gy w, pyr, s		0023-3L
				5 Sh/Clst: m gy to drk gy, slt, mic		0023-1L
				tr Coal : blk		0023-4L
2886.00						0024
	0.94			55 S/Sst : gy w, crs, l		0024-1L
				35 Sh/Clst: m gy to m drk gy, slt, mic		0024-2L
				10 Ca : gy w		0024-3L
				tr Sh/Clst: drk gy		0024-4L
				tr Coal : blk		0024-5L
2911.00						0025
	1.17			55 S/Sst : gy w, crs, l		0025-1L
				35 Sh/Clst: m gy to drk gy, slt, mic		0025-2L
				10 Ca : gy w		0025-3L
				tr Coal : blk		0025-4L
2935.00						0026
	1.25			95 S/Sst : gy w, f, l		0026-1L
				5 Sh/Clst: m gy to drk gy, slt, mic		0026-2L
				tr Coal : blk		0026-3L

Table 3 : Lithology description for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
2965.00						0027
	1.39	80	Sh/Clst: m gy to drk gy, drk brn gy, slt			0027-1L
		20	S/Sst : gy w, f, crs, l			0027-2L
		tr	Coal : blk			0027-3L
2992.00						0028
	1.24	60	Sh/Clst: m gy to drk gy, drk brn gy, slt			0028-1L
		40	S/Sst : gy w, f, l			0028-2L
		tr	Coal : blk			0028-3L
3004.00						0029
		45	Sh/Clst: m gy to drk gy, slt, s, mic			0029-1L
		30	S/Sst : gy w, crs, l			0029-2L
		20	Sh/Clst: drk gy to blk, w, hd, lam			0029-3L
		5	Coal : blk			0029-4L
3016.00						0030
		55	S/Sst : gy w, crs, l			0030-2L
		25	Sh/Clst: m gy to drk gy, slt, s, mic			0030-1L
		10	Sh/Clst: drk gy to blk, w, hd, lam			0030-3L
		10	Ca : w to gy w			0030-4L
		tr	Coal : blk			0030-5L
3025.00						0031
		40	Sh/Clst: m gy to drk gy, slt, s, mic			0031-1L
		35	S/Sst : gy w, crs, l			0031-2L
		15	Ca : w to gy w			0031-4L
		10	Sh/Clst: drk gy to blk, w, hd, lam			0031-3L
		tr	Coal : blk			0031-5L
3031.00						0032
		50	Ca : w to gy w, s			0032-3L
		35	Sh/Clst: m gy to drk gy, slt, s, mic			0032-1L
		15	S/Sst : gy w, crs, l			0032-2L
		tr	Coal : blk			0032-4L

Table 3 : Lithology description for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int	Cvd	TOC%	Lithology description				
3366.00						0033	
			60	Sh/Clst:	m gy to drk gy, brn gy, drk brn gy, slt, mic	0033-1L	
			20	S/Sst	: gy w, f, l	0033-2L	
			20	Cont	: prp, dd	0033-3L	
3378.00						0034	
			95	S/Sst	: gy w, f, crs, l	0034-2L	
			5	Sh/Clst:	m gy to drk gy, brn gy, drk brn gy, slt, mic	0034-1L	
3390.00						0035	
			85	S/Sst	: gy w, f, crs, l	0035-2L	
			10	Sh/Clst:	m gy to drk gy, brn gy, drk brn gy, slt, mic	0035-1L	
			5	Coal	: blk	0035-3L	
3396.00						0036	
			95	S/Sst	: gy w, f, crs, l	0036-2L	
			5	Sh/Clst:	m gy to drk gy, brn gy, drk brn gy, slt, mic	0036-1L	

Table 5A: Rock-Eval table for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2507.00	cut		Sh/Clst: m gy to m drk gy	0.85	6.43	1.80	3.57	1.33	483	135	7.3	0.12	376	0001-1L
2513.00	com		bulk	0.84	5.83	1.67	3.49	1.18	494	142	6.7	0.13	373	0038-0B
2516.00	swc		Sh/Clst: drk brn gy	1.08	8.87	2.40	3.70	1.91	464	126	9.9	0.11	401	0003-1L
2519.00	cut		Sh/Clst: lt gy to m gy	0.75	4.87	2.06	2.36	1.06	459	194	5.6	0.13	371	0037-1L
2526.00	swc		Sh/Clst: drk brn gy	0.87	6.24	2.16	2.89	1.49	419	145	7.1	0.12	378	0004-1L
2528.00	cut		Sh/Clst: lt gy to m gy	0.80	6.00	2.11	2.84	1.12	536	188	6.8	0.12	372	0008-1L
2537.00	swc		Sh/Clst: drk brn gy	1.12	6.78	5.21	1.30	2.38	285	219	7.9	0.14	368	0006-1L
2540.00	cut		Sh/Clst: lt gy to m gy	0.65	4.26	1.74	2.45	1.09	391	160	4.9	0.13	367	0009-1L
2545.00	swc		Sh/Clst: drk brn gy	0.58	4.67	3.10	1.51	2.28	205	136	5.3	0.11	373	0007-1L
2546.00	cut		Sh/Clst: lt gy to m gy	0.77	4.58	1.53	2.99	1.26	363	121	5.3	0.14	366	0010-1L
2549.00	cut		Sh/Clst: lt gy to m gy	0.68	4.73	1.81	2.61	1.21	391	150	5.4	0.13	369	0011-1L
2555.00	com		bulk	0.26	1.43	1.70	0.84	-	-	-	1.7	0.15	372	0039-0B
2558.00	cut		S/Sst : gy w	0.78	4.62	2.59	1.78	-	-	-	5.4	0.14	375	0013-2L
2564.00	cut		S/Sst : gy w	0.37	2.01	1.66	1.21	-	-	-	2.4	0.16	373	0014-2L
2570.00	cut		S/Sst : gy w	0.37	1.78	1.70	1.05	-	-	-	2.2	0.17	374	0015-2L
2576.00	cut		S/Sst : gy w	0.54	2.81	2.20	1.28	-	-	-	3.3	0.16	372	0016-2L

Table 5A: Rock-Eval table for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2585.00	cut		S/Sst : gy w	0.11	0.06	0.48	0.13	-	-	-	0.2	0.65	378	0017-2L
2588.00	cut		S/Sst : gy w	0.10	0.42	0.88	0.48	-	-	-	0.5	0.19	371	0018-2L
2597.00	cut		S/Sst : gy w	0.30	1.60	1.41	1.13	-	-	-	1.9	0.16	374	0019-2L
2610.00	cut		S/Sst : gy w	0.33	1.75	1.82	0.96	-	-	-	2.1	0.16	372	0020-2L
2619.00	cut		S/Sst : gy w	0.24	1.14	1.92	0.59	-	-	-	1.4	0.17	375	0021-2L
2625.00	cut		S/Sst : gy w	0.25	0.88	0.98	0.90	-	-	-	1.1	0.22	423	0022-2L
2631.00	cut		S/Sst : gy w	0.32	1.80	1.29	1.40	-	-	-	2.1	0.15	388	0023-2L
2886.00	cut		Sh/Clst: m gy to m drk gy	0.87	5.40	1.93	2.80	0.94	574	205	6.3	0.14	371	0024-2L
2911.00	cut		Sh/Clst: m gy to drk gy	0.76	4.56	1.57	2.90	1.17	390	134	5.3	0.14	365	0025-2L
2935.00	cut		Sh/Clst: m gy to drk gy	0.98	3.44	1.60	2.15	1.25	275	128	4.4	0.22	358	0026-2L
2965.00	cut		Sh/Clst: m gy to drk gy, drk brn gy	0.99	5.09	1.57	3.24	1.39	366	113	6.1	0.16	369	0027-1L
2992.00	cut		Sh/Clst: m gy to drk gy, drk brn gy	0.78	4.73	1.63	2.90	1.24	381	131	5.5	0.14	366	0028-1L
3004.00	cut		S/Sst : gy w	1.17	5.66	2.91	1.95	-	-	-	6.8	0.17	372	0029-2L
3016.00	cut		S/Sst : gy w	0.88	4.65	2.30	2.02	-	-	-	5.5	0.16	379	0030-2L
3025.00	cut		S/Sst : gy w	0.83	3.84	2.28	1.68	-	-	-	4.7	0.18	376	0031-2L

Table 5A: Rock-Eval table for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3031.00	com		bulk	0.51	2.49	2.07	1.20	-	-	-	3.0	0.17	373	0040-0B
3366.00	cut		S/Sst : gy w	1.08	3.55	2.31	1.54	-	-	-	4.6	0.23	377	0033-2L
3378.00	cut		S/Sst : gy w	0.16	0.22	1.03	0.21	-	-	-	0.4	0.42	396	0034-2L
3390.00	cut		S/Sst : gy w	0.22	1.90	1.98	0.96	-	-	-	2.1	0.10	376	0035-2L
3396.00	cut		S/Sst : gy w	0.52	1.48	2.97	0.50	-	-	-	2.0	0.26	376	0036-2L

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	0.50	17.55	1.86	9.44	-	-	-	18.0	0.03	420	0185-0B
2.00	std		bulk	0.51	19.34	2.07	9.34	-	-	-	19.9	0.03	421	0186-0B

Table 6 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2507.00	cut	Sh/Clst: m gy to m drk gy	2.21	56.89	37.82	3.08	6.43	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	1.71	56.42	39.28	2.59	4.87	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	1.68	50.52	44.65	3.15	6.00	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	1.16	38.30	57.50	3.05	4.26	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	1.51	40.94	54.20	3.35	4.73	0011-1L
2886.00	cut	Sh/Clst: m gy to m drk gy	1.65	48.02	46.82	3.51	5.40	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	2.02	54.83	40.92	2.23	4.56	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	1.46	38.80	55.53	4.22	4.73	0028-1L

Table 8a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 34/10-41S/41ST2

Page: 1

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
2507.00	cut	Sh/Clst: m gy to m drk gy	10.3	43.3	0.9	0.4	40.8	1.2	1.3	42.0	1.33	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	10.6	22.2	2.2	1.9	14.9	3.2	4.1	18.1	1.06	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	10.4	25.4	1.6	1.6	20.0	2.2	3.2	22.2	1.12	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	8.8	11.8	2.0	1.0	5.9	2.9	2.9	8.9	1.09	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	9.5	12.1	1.0	0.6	8.2	2.2	1.6	10.5	1.21	0011-1L
2558.00	cut	S/Sst : gy w	2.7	9.8	0.4	0.4	6.7	2.2	0.9	8.9	0.09	0013-2L
2576.00	cut	S/Sst : gy w	2.8	10.9	0.4	0.4	8.1	2.0	0.8	10.1	0.22	0016-2L
2610.00	cut	S/Sst : gy w	3.0	8.6	0.4	0.4	6.6	1.2	0.8	7.8	0.13	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	10.1	22.5	0.6	0.6	18.5	2.8	1.2	21.3	0.94	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	10.6	13.8	1.3	1.3	8.3	2.9	2.6	11.2	1.17	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	10.6	15.7	0.9	0.6	11.4	2.8	1.5	14.2	1.24	0028-1L
3004.00	com	Composite sample - see table 8f	2.2	6.9	0.7	1.2	4.2	0.7	2.0	4.9	0.14	0041-0B
3025.00	com	Composite sample - see table 8f	5.2	21.6	1.2	0.4	17.7	2.3	1.5	20.1	0.34	0042-0B
3378.00	cut	S/Sst : gy w	3.7	2.3	0.2	0.2	0.6	1.2	0.5	1.8	0.04	0034-2L
3396.00	cut	S/Sst : gy w	3.8	1.7	0.2	0.1	1.3	0.1	0.3	1.4	0.06	0036-2L

Table 8b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 34/10-41S/41ST2

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2507.00	cut	Sh/Clst: m gy to m drk gy	4191	83	41	3952	114	124	4066	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	2096	209	179	1408	299	388	1707	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	2449	152	152	1931	213	304	2144	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	1343	223	111	671	335	335	1007	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	1275	107	64	866	236	172	1103	0011-1L
2558.00	cut	S/Sst : gy w	3670	165	165	2509	829	331	3338	0013-2L
2576.00	cut	S/Sst : gy w	3906	140	140	2919	704	281	3624	0016-2L
2610.00	cut	S/Sst : gy w	2847	132	132	2185	397	264	2582	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	2227	61	61	1827	277	123	2104	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	1299	122	122	777	276	245	1053	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	1476	86	57	1071	260	144	1332	0028-1L
3004.00	com	Composite sample - see table 8f	3150	336	560	1917	336	896	2254	0041-0B
3025.00	com	Composite sample - see table 8f	4194	224	74	3445	449	299	3894	0042-0B
3378.00	cut	S/Sst : gy w	628	66	66	163	331	132	495	0034-2L
3396.00	cut	S/Sst : gy w	441	51	17	337	34	69	372	0036-2L

Table 8c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 34/10-41S/41ST2

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2507.00	cut	Sh/Clst: m gy to m drk gy	315.16	6.26	3.13	297.18	8.60	9.38	305.78	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	197.77	19.75	16.93	132.86	28.22	36.69	161.08	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	218.69	13.59	13.59	172.49	19.02	27.18	191.52	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	123.30	20.55	10.27	61.65	30.82	30.82	92.47	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	105.37	8.88	5.33	71.61	19.55	14.22	91.16	0011-1L
2558.00	cut	S/Sst : gy w	4078.24	184.29	184.29	2788.18	921.47	368.59	3709.65	0013-2L
2576.00	cut	S/Sst : gy w	1775.82	64.09	64.09	1327.19	320.45	128.18	1647.64	0016-2L
2610.00	cut	S/Sst : gy w	2190.53	101.88	101.88	1681.10	305.65	203.77	1986.76	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	236.99	6.55	6.55	194.43	29.47	13.10	223.89	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	111.06	10.50	10.50	66.46	23.62	20.99	90.07	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	119.11	7.01	4.67	86.40	21.03	11.68	107.43	0028-1L
3004.00	com	Composite sample - see table 8f	2250.49	240.17	400.28	1369.86	240.17	640.46	1610.03	0041-0B
3025.00	com	Composite sample - see table 8f	1233.58	66.08	22.03	1013.30	132.17	88.11	1145.47	0042-0B
3378.00	cut	S/Sst : gy w	1571.04	165.89	165.89	409.84	829.43	331.77	1239.27	0034-2L
3396.00	cut	S/Sst : gy w	735.93	86.58	28.86	562.77	57.72	115.44	620.49	0036-2L

Table 8d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
2507.00	cut	Sh/Clst: m gy to m drk gy	1.99	0.99	94.29	2.73	100.00	2.98	97.02	1.15	1.07	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	9.99	8.56	67.18	14.27	100.00	18.55	81.45	1.05	0.97	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	6.21	6.21	78.87	8.70	100.00	12.43	87.57	1.59	1.02	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	16.67	8.33	50.00	25.00	100.00	25.00	75.00	1.08	0.93	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	8.43	5.06	67.96	18.55	100.00	13.49	86.51	1.02	1.16	0011-1L
2558.00	cut	S/Sst : gy w	4.52	4.52	68.37	22.59	100.00	9.04	90.96	0.95	0.89	0013-2L
2576.00	cut	S/Sst : gy w	3.61	3.61	74.74	18.05	100.00	7.22	92.78	1.31	0.94	0016-2L
2610.00	cut	S/Sst : gy w	4.65	4.65	76.74	13.95	100.00	9.30	90.70	1.25	0.94	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	2.76	2.76	82.04	12.43	100.00	5.53	94.47	1.22	1.00	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	9.45	9.45	59.84	21.26	100.00	18.90	81.10	1.11	0.96	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	5.89	3.92	72.54	17.66	100.00	9.81	90.19	0.95	1.01	0028-1L
3004.00	com	Composite sample - see table 8f	10.67	17.79	60.87	10.67	100.00	28.46	71.54	1.27	0.81	0041-0B
3025.00	com	Composite sample - see table 8f	5.36	1.79	82.14	10.71	100.00	7.14	92.86	1.07	0.96	0042-0B
3378.00	cut	S/Sst : gy w	10.56	10.56	26.09	52.80	100.00	21.12	78.88	3.50	0.52	0034-2L
3396.00	cut	S/Sst : gy w	11.76	3.92	76.47	7.84	100.00	15.69	84.31	1.13	1.35	0036-2L

Table 8e: MPLC Bulk Composition: Ratios for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
2507.00	cut	Sh/Clst: m gy to m drk gy	2.00	0.03	34.55	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	1.17	0.23	4.71	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	1.00	0.14	9.07	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	2.00	0.33	2.00	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	1.67	0.16	3.66	0011-1L
2558.00	cut	S/Sst : gy w	1.00	0.10	3.03	0013-2L
2576.00	cut	S/Sst : gy w	1.00	0.08	4.14	0016-2L
2610.00	cut	S/Sst : gy w	1.00	0.10	5.50	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	1.00	0.06	6.60	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	1.00	0.23	2.81	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	1.50	0.11	4.11	0028-1L
3004.00	com	Composite sample - see table 8f	0.60	0.40	5.70	0041-0B
3025.00	com	Composite sample - see table 8f	3.00	0.08	7.67	0042-0B
3378.00	cut	S/Sst : gy w	1.00	0.27	0.49	0034-2L
3396.00	cut	S/Sst : gy w	3.00	0.19	9.75	0036-2L

MPLC Bulk Composition: List of composite samples for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

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

<u>Upper depth</u>	<u>Lower depth</u>	<u>Typ</u>	<u>Sample</u>	<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sample</u>
2992.00	3004.00	com	0041-0B is composed of:	2992.00	cut	S/Sst : gy w, f, l	0028-2L
				3004.00	cut	S/Sst : gy w, crs, l	0029-2L
3016.00	3025.00	com	0042-0B is composed of:	3016.00	cut	S/Sst : gy w, crs, l	0030-2L
				3025.00	cut	S/Sst : gy w, crs, l	0031-2L

Table 8f: Iatroscan TLC Bulk Composition: Absolute yields in mg/g rock for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Lithology	Sat HC	Aro HC	NSO	Asp	HC	Non-HC	EOM	Sample
2507.00	cut	Sh/Clst	0.06	0.03	0.15	3.95	0.09	4.10	4.19	0001-1L
2519.00	cut	Sh/Clst	0.19	0.11	0.39	1.41	0.30	1.80	2.10	0037-1L
2528.00	cut	Sh/Clst	0.08	0.03	0.41	1.93	0.11	2.34	2.45	0008-1L
2540.00	cut	Sh/Clst	0.19	0.08	0.40	0.67	0.27	1.08	1.34	0009-1L
2549.00	cut	Sh/Clst	0.09	0.04	0.28	0.87	0.13	1.15	1.28	0011-1L
2558.00	cut	S/Sst	0.08	-	1.08	2.51	0.08	3.59	3.67	0013-2L
2576.00	cut	S/Sst	0.07	-	0.92	2.92	0.07	3.84	3.91	0016-2L
2610.00	cut	S/Sst	0.05	-	0.61	2.19	0.05	2.80	2.85	0020-2L
2886.00	cut	Sh/Clst	0.04	0.02	0.34	1.83	0.06	2.17	2.23	0024-2L
2911.00	cut	Sh/Clst	0.07	0.04	0.41	0.78	0.11	1.19	1.30	0025-2L
2992.00	cut	Sh/Clst	0.03	0.02	0.35	1.07	0.05	1.42	1.48	0028-1L
3004.00	com	bulk	-	-	1.23	1.92	-	3.15	3.15	0041-0B
3025.00	com	bulk	0.05	0.02	0.67	3.45	0.08	4.12	4.19	0042-0B
3378.00	cut	S/Sst	0.05	0.01	0.41	0.16	0.06	0.57	0.63	0034-2L
3396.00	cut	S/Sst	0.01	-	0.10	0.34	0.01	0.43	0.44	0036-2L

Table 8g: Iatroskan TLC Bulk Composition: Rel. percentages of sep. fractions for well NOCS 34/10-41S/41ST2

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	Sat HC	Aro HC	NSO	Asp	Total	HC	Non-HC	Recov. Iatr.	Recov. Asp	Sample
2507.00	cut	Sh/Clst	1.42	0.77	3.52	94.29	100.00	2.18	97.82	0.45	1.07	0001-1L
2519.00	cut	Sh/Clst	9.04	5.32	18.46	67.18	100.00	14.36	85.64	0.47	0.97	0037-1L
2528.00	cut	Sh/Clst	3.30	1.24	16.59	78.87	100.00	4.54	95.46	0.29	1.02	0008-1L
2540.00	cut	Sh/Clst	14.02	5.90	30.09	50.00	100.00	19.91	80.09	0.42	0.93	0009-1L
2549.00	cut	Sh/Clst	7.29	2.88	21.86	67.96	100.00	10.17	89.83	0.40	1.16	0011-1L
2558.00	cut	S/Sst	2.12	-	29.52	68.37	100.00	2.12	97.88	0.46	0.89	0013-2L
2576.00	cut	S/Sst	1.80	-	23.46	74.74	100.00	1.80	98.20	0.43	0.94	0016-2L
2610.00	cut	S/Sst	1.83	-	21.43	76.74	100.00	1.83	98.17	0.40	0.94	0020-2L
2886.00	cut	Sh/Clst	1.70	0.79	15.48	82.04	100.00	2.48	97.52	0.32	1.00	0024-2L
2911.00	cut	Sh/Clst	5.72	3.01	31.44	59.84	100.00	8.73	91.27	0.39	0.96	0025-2L
2992.00	cut	Sh/Clst	2.15	1.42	23.90	72.54	100.00	3.57	96.43	0.46	1.01	0028-1L
3004.00	com	bulk	-	-	39.13	60.87	100.00	-	100.00	3.37	0.81	0041-0B
3025.00	com	bulk	1.31	0.51	16.04	82.14	100.00	1.82	98.18	0.46	0.96	0042-0B
3378.00	cut	S/Sst	7.51	1.50	64.90	26.09	100.00	9.01	90.99	0.41	0.52	0034-2L
3396.00	cut	S/Sst	1.82	-	21.71	76.47	100.00	1.82	98.18	0.64	1.35	0036-2L

Table 9a: Quantitative Analysis of Saturated Fraction for well 34/10-41S/41ST2

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
2507 .00m	18.30	33.17	11.52	33.93	26.81	30.52	17.00	24.83	19.22	12.70	9.56	7.94	6.02	5.82	4.30	3.72	2.41	2.38	1.61	2.06	0.97	1.63	0.99
2519 .00m	23.31	36.51	12.18	34.87	27.09	31.21	17.47	26.98	21.77	14.78	11.36	9.07	6.90	6.10	4.41	3.81	2.35	2.94	1.71	2.43	1.23	1.84	1.64
2528 .00m	15.30	28.02	9.60	27.83	20.33	26.08	13.83	22.08	18.02	12.38	9.72	8.14	6.43	6.26	4.00	4.23	2.09	2.97	2.06	2.22	1.07	1.46	1.22
2540 .00m	17.05	31.86	11.07	34.36	26.34	31.57	15.97	26.71	21.22	14.01	10.79	8.88	7.27	6.81	4.64	4.58	2.55	3.04	1.52	2.11	1.10	1.08	1.05
2549 .00m	19.29	44.59	16.73	54.23	40.59	48.86	23.14	39.04	26.32	17.75	13.15	10.11	8.35	8.13	4.75	4.37	2.57	3.10	2.08	2.42	1.51	1.78	1.50
2558 .00m	1.15	5.87	0.00	6.04	4.30	10.91	6.30	6.56	8.60	4.28	5.90	3.15	4.50	5.41	1.97	1.37	1.52	3.85	2.08	2.48	0.00	0.00	0.00
2576 .00m	0.00	2.69	0.00	6.01	4.95	13.99	6.96	11.06	10.47	5.48	6.32	3.79	3.74	3.77	1.78	1.67	1.57	3.11	0.95	3.65	0.98	1.06	2.24
2610 .00m	1.46	9.74	5.50	23.80	18.85	30.23	12.55	21.50	13.51	7.55	7.61	2.89	2.45	2.04	1.46	1.48	1.23	0.77	2.21	0.91	1.34	0.48	2.42
2886 .00m	4.76	24.31	8.62	28.66	24.47	29.40	12.23	20.69	15.49	10.51	8.13	7.13	6.09	7.60	4.55	5.96	3.01	5.00	2.72	4.06	0.99	2.08	2.50
2911 .00m	9.02	25.99	8.13	28.78	21.75	28.59	13.47	22.96	18.92	12.60	10.46	8.85	7.05	7.38	4.32	4.63	2.59	4.17	2.25	2.87	1.57	2.05	1.63
2992 .00m	3.90	17.14	6.53	21.70	18.00	24.16	10.03	17.56	14.08	9.95	9.70	8.31	6.65	9.12	4.91	6.15	2.89	4.85	1.90	3.33	0.91	2.41	1.47
3004 .00m	0.21	0.96	0.59	1.37	1.16	3.19	1.25	1.67	2.74	2.42	5.13	5.41	7.14	6.77	6.37	5.26	4.67	4.59	3.19	3.16	1.73	1.48	1.61
3025 .00m	0.25	1.54	0.63	2.09	2.82	3.50	2.98	2.38	3.73	2.94	2.51	2.10	1.61	1.98	1.76	2.11	1.15	2.33	1.07	3.19	0.68	1.08	0.88
3378 .00m	0.46	2.15	1.90	4.30	4.02	12.83	5.21	8.81	9.01	4.89	5.07	3.67	3.74	3.90	1.72	1.62	1.08	3.29	1.84	2.69	0.81	1.08	1.40
3396 .00m	0.41	0.96	0.00	0.93	0.65	1.86	0.61	1.25	1.56	1.05	1.45	0.86	0.96	0.66	0.60	0.82	0.56	1.04	0.60	1.20	0.69	0.73	0.93

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 34/10-41S/41ST2

Depth unit of measure: m			Pristane	Pristane	Pristane/nC17	Phytane		nC17	
Depth	Typ	Lithology	nC17	Phytane	Phytane/nC18	nC18	CPI1	nC17+nC27	Sample
2507.00	cut	Sh/Clst: m gy to m drk gy	0.79	1.58	1.42	0.56	1.24	0.90	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	0.78	1.55	1.39	0.56	1.29	0.90	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	0.73	1.47	1.38	0.53	1.39	0.87	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	0.77	1.65	1.52	0.51	1.36	0.88	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	0.75	1.75	1.58	0.47	1.33	0.93	0011-1L
2558.00	cut	S/Sst : gy w	0.71	0.68	1.23	0.58	1.83	0.82	0013-2L
2576.00	cut	S/Sst : gy w	0.82	0.71	1.65	0.50	1.92	0.78	0016-2L
2610.00	cut	S/Sst : gy w	0.79	1.50	1.91	0.42	0.77	0.94	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	0.85	2.00	2.05	0.42	1.69	0.83	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	0.76	1.61	1.60	0.47	1.48	0.86	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	0.83	1.79	2.00	0.42	1.82	0.78	0028-1L
3004.00	com	bulk	0.84	0.93	2.16	0.39	1.08	0.21	0041-0B
3025.00	com	bulk	1.35	0.95	1.59	0.85	1.90	0.50	0042-0B
3378.00	cut	S/Sst : gy w	0.94	0.77	2.30	0.41	1.74	0.73	0034-2L
3396.00	cut	S/Sst : gy w	0.70	1.06	2.13	0.33	1.45	0.53	0036-2L

Table 9Ca: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 34/10-41S/41ST2

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT (3+2) /1MDBT	Sample	
2507.00	cut	Sh/Clst: m gy to m drk gy	-	0.74	-	1.12	0.80	0.90	0.88	0.45	3.93	1.20	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	-	0.53	-	1.32	0.87	0.98	0.92	0.43	3.01	1.17	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	-	-	-	1.16	0.82	0.89	0.89	0.47	4.58	1.40	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	-	-	-	1.26	0.82	0.90	0.89	0.42	4.13	1.36	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	-	-	-	1.25	0.79	0.89	0.88	0.38	3.86	1.31	0011-1L
2558.00	cut	S/Sst : gy w	-	-	-	-	-	-	-	-	-	-	0013-2L
2576.00	cut	S/Sst : gy w	-	-	-	1.63	0.97	1.34	0.98	-	-	-	0016-2L
2610.00	cut	S/Sst : gy w	-	-	-	2.02	1.05	1.51	1.03	-	-	-	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	-	-	-	1.13	0.79	0.92	0.87	0.41	5.51	1.63	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	-	-	-	1.24	0.77	0.90	0.86	0.41	4.38	1.48	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	-	-	-	1.06	0.61	0.72	0.77	0.32	2.51	0.59	0028-1L
3004.00	com	bulk	-	-	-	-	-	-	-	-	-	-	0041-0B
3025.00	com	bulk	-	-	-	1.48	0.66	0.82	0.80	-	-	-	0042-0B
3378.00	cut	S/Sst : gy w	-	-	-	-	-	-	-	-	-	-	0034-2L
3396.00	cut	S/Sst : gy w	-	-	-	-	-	-	-	-	-	-	0036-2L

Table 9Cb: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
2507.00	cut	Sh/Clst: m gy to m drk gy	0.46	0.26	0001-1L
2519.00	cut	Sh/Clst: lt gy to m gy	0.49	0.27	0037-1L
2528.00	cut	Sh/Clst: lt gy to m gy	0.47	0.25	0008-1L
2540.00	cut	Sh/Clst: lt gy to m gy	0.48	0.26	0009-1L
2549.00	cut	Sh/Clst: lt gy to m gy	0.47	0.26	0011-1L
2558.00	cut	S/Sst : gy w	-	-	0013-2L
2576.00	cut	S/Sst : gy w	0.46	0.32	0016-2L
2610.00	cut	S/Sst : gy w	0.49	0.35	0020-2L
2886.00	cut	Sh/Clst: m gy to m drk gy	0.44	0.26	0024-2L
2911.00	cut	Sh/Clst: m gy to drk gy	0.46	0.27	0025-2L
2992.00	cut	Sh/Clst: m gy to drk gy, drk brn gy	0.42	0.25	0028-1L
3004.00	com	bulk	-	-	0041-0B
3025.00	com	bulk	0.44	0.28	0042-0B
3378.00	cut	S/Sst : gy w	-	-	0034-2L
3396.00	cut	S/Sst : gy w	-	-	0036-2L

Table 10A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
2507.00	cut	Sh/Clst	-28.77	-29.57	-28.70	-28.71	-28.80	-	0001-1
2519.00	cut	Sh/Clst	-28.74	-29.62	-28.57	-28.92	-28.69	-	0037-1
2528.00	cut	Sh/Clst	-28.74	*-	*-	-28.84	-28.70	-	0008-1
2540.00	cut	Sh/Clst	-28.69	-29.21	-28.95	-29.01	-28.50	-	0009-1
2549.00	cut	Sh/Clst	-28.60	*-	*-	-28.74	-28.51	-	0011-1
2558.00	cut	S/Sst	-	*-	*-	-29.45	-28.98	-	0013-2
2576.00	cut	S/Sst	-29.02	*-	*-	-29.22	-28.89	-	0016-2
2610.00	cut	S/Sst	-	*-	*-	*-	-28.93	-	0020-2
2886.00	cut	Sh/Clst	-28.85	-29.47	-28.95	-28.96	-28.76	-	0024-2
2911.00	cut	Sh/Clst	-28.52	*-	-28.79	-28.71	-28.56	-	0025-2
2992.00	cut	Sh/Clst	-28.62	-28.43	-28.38	-28.44	-28.63	-	0028-1
3004.00	cut	S/Sst	-	*-	*-	-28.35	-28.97	-	0029-2
3016.00	cut	S/Sst	-29.54	*-	*-	-29.66	-28.97	-	0030-2
3378.00	cut	S/Sst	-	*-	*-	-28.96	-28.17	-	0034-2
3396.00	cut	S/Sst	-	*-	*-	*-	-28.88	-	0036-2

* Sample too small to be measured.

Table 10B: Tabulation of cv values from carbon isotope data for well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Typ	Lithology	Saturated	Aromatic	cv value	Interpretation	Sample
2507.00	cut	Sh/Clst	-29.57	-28.70	-0.55	Marine	0001-1
2519.00	cut	Sh/Clst	-29.62	-28.57	-0.14	Marine	0037-1
2528.00	cut	Sh/Clst	*-	*-	-	Marine	0008-1
2540.00	cut	Sh/Clst	-29.21	-28.95	-2.02	Marine	0009-1
2549.00	cut	Sh/Clst	*-	*-	-	Marine	0011-1
2558.00	cut	S/Sst	*-	*-	-	Marine	0013-2
2576.00	cut	S/Sst	*-	*-	-	Marine	0016-2
2610.00	cut	S/Sst	*-	*-	-	Marine	0020-2
2886.00	cut	Sh/Clst	-29.47	-28.95	-1.36	Marine	0024-2
2911.00	cut	Sh/Clst	*-	-28.79	-	Marine	0025-2
2992.00	cut	Sh/Clst	-28.43	-28.38	-2.73	Marine	0028-1
3004.00	cut	S/Sst	*-	*-	-	Marine	0029-2
3016.00	cut	S/Sst	*-	*-	-	Marine	0030-2
3378.00	cut	S/Sst	*-	*-	-	Marine	0034-2
3396.00	cut	S/Sst	*-	*-	-	Marine	0036-2

* Sample too small to be measured.

Table 11a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 34/10-41S/41ST2

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
2507.00	Sh/Clst	1.65	0.62	0.13	0.41	0.29	0.04	0.11	0.28	0.10	0.05	0.84	0.33	0.27	46.86	0001-1
2519.00	Sh/Clst	1.44	0.59	0.12	0.40	0.28	0.04	0.12	0.31	0.11	0.05	0.86	0.33	0.23	49.30	0037-1
2528.00	Sh/Clst	2.03	0.67	0.13	0.41	0.29	0.03	0.10	0.23	0.09	0.04	0.82	0.33	0.31	42.65	0008-1
2540.00	Sh/Clst	1.45	0.59	0.12	0.40	0.29	0.03	0.11	0.28	0.10	0.05	0.86	0.32	0.23	48.76	0009-1
2549.00	Sh/Clst	2.19	0.69	0.12	0.39	0.28	0.02	0.08	0.20	0.07	0.04	0.84	0.32	0.26	42.76	0011-1
2558.00	S/Sst	0.80	0.44	0.06	0.37	0.27	0.01	0.06	0.15	0.05	0.18	0.97	0.28	0.04	62.41	0013-2
2576.00	S/Sst	1.25	0.55	0.07	0.39	0.28	0.01	0.04	0.09	0.03	0.19	0.95	0.29	0.07	52.34	0016-2
2610.00	S/Sst	1.14	0.53	0.06	0.41	0.29	0.01	0.03	0.07	0.03	0.15	0.98	0.30	0.03	55.85	0020-2
2886.00	Sh/Clst	3.97	0.80	0.12	0.37	0.27	0.01	0.03	0.09	0.03	0.01	0.81	0.32	0.33	25.73	0024-2
2911.00	Sh/Clst	2.65	0.73	0.13	0.39	0.28	0.03	0.08	0.21	0.08	0.03	0.82	0.32	0.30	38.42	0025-2
2992.00	Sh/Clst	6.79	0.87	0.16	0.41	0.29	0.02	0.04	0.09	0.03	0.02	0.75	0.33	0.42	20.16	0028-1
3004.00	S/Sst	1.86	0.65	0.06	0.39	0.28	0.01	0.02	0.04	0.02	0.03	0.96	0.29	0.06	52.81	0029-2
3025.00	bulk	2.89	0.74	0.08	0.23	0.19	0.03	0.04	0.16	0.04	0.02	0.88	0.24	0.22	24.60	0042-0
3378.00	S/Sst	0.57	0.36	0.09	0.53	0.35	-	-	-	-	0.99	0.92	0.37	0.12	-	0034-2
3396.00	S/Sst	0.94	0.48	0.06	0.45	0.31	0.01	0.02	0.04	0.02	0.22	0.98	0.32	0.03	56.08	0036-2

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 34/10-41S/41ST2

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>
2507.00	Sh/Clst	0.56	34.43	72.38	1.07	0.79	0.41	0.29	0.57	0.53	2.00	0001-1
2519.00	Sh/Clst	0.55	34.52	72.42	1.01	0.79	0.39	0.27	0.57	0.53	2.00	0037-1
2528.00	Sh/Clst	0.51	30.22	70.61	1.06	0.80	0.42	0.30	0.55	0.43	1.72	0008-1
2540.00	Sh/Clst	0.56	33.00	73.35	1.02	0.81	0.43	0.31	0.58	0.49	2.05	0009-1
2549.00	Sh/Clst	0.52	28.08	72.13	1.00	0.82	0.46	0.34	0.56	0.39	1.80	0011-1
2558.00	S/Sst	0.37	39.02	77.53	1.24	0.82	0.71	0.58	0.63	0.64	2.83	0013-2
2576.00	S/Sst	0.22	24.41	71.86	1.16	0.84	0.83	0.73	0.56	0.32	1.69	0016-2
2610.00	S/Sst	0.13	27.78	65.54	1.40	0.77	0.87	0.79	0.49	0.38	1.32	0020-2
2886.00	Sh/Clst	0.35	12.59	61.34	0.99	0.86	0.51	0.40	0.44	0.14	0.91	0024-2
2911.00	Sh/Clst	0.44	23.67	69.30	0.95	0.83	0.39	0.28	0.53	0.31	1.48	0025-2
2992.00	Sh/Clst	0.35	13.35	60.76	0.95	0.85	0.52	0.42	0.44	0.15	0.89	0028-1
3004.00	S/Sst	0.18	18.96	69.05	0.95	0.85	0.20	0.16	0.53	0.23	1.38	0029-2
3025.00	bulk	0.17	4.82	37.93	1.27	0.86	0.12	0.10	0.23	0.05	0.32	0042-0
3378.00	S/Sst	0.05	-	-	-	-	1.00	1.00	-	-	-	0034-2
3396.00	S/Sst	0.12	24.69	67.96	1.77	0.81	0.88	0.81	0.51	0.33	1.41	0036-2

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

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 34/10-41S/41ST2

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	
2507.00	Sh/Clst	6721.8	4895.6	2096.8	5074.6	1416.5	10070.6	16634.1	11057.9	2550.3	0001-1
		39469.0	13179.3	3814.4	18218.2	0.0	96757.0	18034.3	5401.5	27371.4	
		56216.9	13457.3	15263.0	10493.1	8170.5	5761.3	4322.4	4526.6	3305.4	
2519.00	Sh/Clst	6284.1	4453.5	1674.9	3942.2	1205.2	9038.6	13031.1	10092.4	2154.4	0037-1
		32561.5	11801.1	3397.3	13349.7	0.0	81869.4	13414.2	4197.7	23069.9	
		41883.9	12052.5	12395.2	9001.2	6772.8	5090.8	3849.9	4238.4	2880.4	
2528.00	Sh/Clst	2924.7	2050.5	741.3	2143.8	555.2	4457.5	9040.1	4541.5	1197.7	0008-1
		19643.3	5543.5	1619.7	9829.2	0.0	47761.2	10822.6	3209.4	12423.9	
		33985.0	5525.9	7429.2	4296.8	3502.5	2491.3	1667.6	1597.8	1195.4	
2540.00	Sh/Clst	1830.1	1339.2	369.4	1113.2	240.7	2837.4	4110.4	3034.8	560.2	0009-1
		10828.5	3678.5	917.7	4286.4	0.0	27116.1	4455.4	1275.3	7352.2	
		14533.3	3648.1	3833.1	2608.1	1916.3	1150.8	827.0	893.2	521.3	
2549.00	Sh/Clst	1261.0	673.5	155.3	444.1	93.3	1372.0	2997.9	1424.2	231.1	0011-1
		7165.5	1964.9	383.3	3119.2	0.0	18308.8	3380.6	760.5	4552.8	
		11994.6	1880.3	2517.3	1292.7	1000.8	507.9	328.8	347.5	213.0	
2558.00	S/Sst	821.1	310.0	63.1	56.8	22.6	141.4	113.1	93.1	16.5	0013-2
		622.8	124.7	22.7	38.1	0.0	1681.7	45.4	13.1	338.2	
		199.9	125.9	75.9	74.6	37.3	29.4	18.6	16.9	9.2	
2576.00	S/Sst	227.4	90.1	16.9	19.4	7.1	27.8	34.6	16.4	7.3	0016-2
		180.2	24.8	3.6	20.8	0.0	464.5	25.9	4.8	50.8	
		118.4	16.8	15.3	10.1	6.3	4.7	3.4	3.8	2.6	

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	
2610.00	S/Sst	278.0 243.4 63.0	86.7 38.5 25.2	16.7 7.7 19.9	17.7 12.8 17.4	10.5 0.0 11.1	32.7 595.6 6.6	37.4 13.1 4.1	17.1 6.4 4.2	11.0 87.9 3.7	0020-2
2886.00	Sh/Clst	690.2 7101.4 15409.7	281.4 1728.0 750.9	65.6 195.8 2167.9	238.0 4173.4 419.2	28.7 0.0 470.5	799.0 19071.2 116.3	3170.7 4469.4 104.8	661.9 889.9 77.4	254.9 3283.7 41.4	0024-2
2911.00	Sh/Clst	1767.6 13631.4 24355.2	1118.3 4087.8 3051.9	295.9 988.9 4891.5	1018.3 6662.7 2012.2	165.1 0.0 1771.5	2316.0 35022.4 890.7	6139.6 7851.6 646.0	2874.4 1762.1 612.6	684.5 8307.1 374.2	0025-2
2992.00	Sh/Clst	687.0 7156.2 17113.8	401.2 1011.6 748.2	111.9 316.9 2962.9	477.0 4330.1 345.1	84.8 0.0 573.8	647.7 17632.1 142.0	4398.8 6023.1 155.8	635.5 905.3 83.2	328.9 3831.4 65.9	0028-1
3004.00	S/Sst	288.9 1457.5 795.2	118.6 214.6 369.0	35.3 28.6 329.8	51.1 156.1 231.4	16.8 0.0 137.2	146.1 3756.5 1402.6	271.6 159.9 108.3	60.6 68.0 176.7	28.4 864.1 118.0	0029-2
3025.00	bulk	1170.3 5035.1 5460.2	515.8 1968.0 622.8	147.2 664.3 1908.5	210.9 2735.9 186.5	70.7 0.0 811.6	781.4 21514.8 67.0	2257.3 2997.3 310.9	803.0 728.0 52.0	125.3 2102.1 333.9	0042-0
3378.00	S/Sst	40.7 7.3 2.6	13.5 1.6 0.0	2.8 0.0 0.0	3.8 1.4 0.0	1.5 0.0 0.0	2.6 13.7 0.0	1.5 1.1 0.0	0.0 0.0 0.0	0.0 3.7 0.0	0034-2

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 34/10-41S/41ST2

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	29 β a	300	30a β	30 β a	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	
3396.00	S/Sst	162.0	50.3	10.8	9.4	5.6	14.9	14.0	4.3	2.9	0036-2
		102.0	13.1	2.9	5.7	0.0	228.7	5.0	1.9	23.3	
		18.3	6.2	4.9	3.0	1.9	1.4	0.5	1.0	1.1	

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2507.00	Sh/Clst	20464.2	7692.3	16923.1	11792.2	4602.6	5235.6	9552.9	6624.2	8086.5	0001-1
		13246.8	13323.9	13037.7	9885.0	3751.1	5022.8	9140.3	11661.4		
		5989.0	5985.9	12675.1	10104.1	11398.7					
2519.00	Sh/Clst	17012.4	6735.1	15410.6	10628.2	4295.9	4700.7	8610.3	6303.2	7862.6	0037-1
		12974.4	12463.1	12417.3	9291.3	3666.2	4836.4	8711.0	10762.6		
		5370.9	5467.7	11544.9	9249.9	10372.9					
2528.00	Sh/Clst	8954.9	2986.3	6861.3	4981.9	1865.4	2058.7	3765.0	2616.3	3297.9	0008-1
		5633.4	5356.0	6655.0	4027.7	1461.2	1853.3	3752.4	4740.7		
		2458.6	2283.8	5076.7	4003.4	5273.4					
2540.00	Sh/Clst	5565.0	1818.8	4380.5	2888.5	909.6	1186.5	2295.9	1482.1	2019.1	0009-1
		3684.5	3535.4	3431.7	2480.7	808.5	1048.8	2213.3	2997.8		
		1334.2	1375.1	3157.5	2577.7	2792.2					
2549.00	Sh/Clst	3165.8	798.8	2053.1	1386.7	361.3	379.7	989.8	668.3	824.2	0011-1
		1718.1	1528.2	1883.1	1115.2	328.8	417.3	1030.9	1357.4		
		605.9	572.0	1493.8	1142.6	1465.3					
2558.00	S/Sst	963.9	195.5	322.4	267.7	66.3	67.6	112.0	64.7	108.1	0013-2
		299.2	219.1	552.0	135.4	44.9	50.8	105.8	170.5		
		46.1	67.0	172.5	123.8	104.7					

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

Table 11d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2576.00	S/Sst	430.6	76.6	80.2	62.3	18.4	20.8	30.4	19.5	34.4	0016-2
		78.5	49.1	287.8	43.0	16.0	9.9	19.2	36.7		
		12.6	11.3	34.7	24.5	35.0					
2610.00	S/Sst	351.9	43.7	51.0	63.2	9.1	12.3	14.3	9.0	31.2	0020-2
		51.3	29.5	331.7	25.6	6.6	5.3	13.0	20.4		
		8.0	8.4	16.9	11.9	21.9					
2886.00	Sh/Clst	2298.0	403.0	1015.2	870.8	176.1	194.0	637.8	436.1	357.8	0024-2
		980.9	751.6	1866.4	649.1	158.0	179.8	484.2	658.3		
		433.7	180.1	673.6	461.4	1250.7					
2911.00	Sh/Clst	4249.2	1280.1	3280.7	2643.6	740.1	708.6	1742.7	1263.4	1553.5	0025-2
		3065.6	2797.8	4113.2	2189.2	650.0	784.6	1879.0	2483.2		
		1337.1	948.9	2559.4	1963.9	3059.4					
2992.00	Sh/Clst	3508.4	673.4	1283.7	959.8	290.4	304.4	599.9	419.1	501.5	0028-1
		1210.5	951.5	2378.4	833.5	272.0	258.4	668.1	861.7		
		558.3	296.1	1066.9	650.5	1922.1					
3004.00	S/Sst	612.9	90.1	544.9	501.7	106.6	107.3	102.9	85.5	342.0	0029-2
		685.3	625.4	2403.3	307.1	83.6	88.6	249.4	396.0		
		212.0	247.9	833.7	625.2	1059.8					

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

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					
3025.00	bulk	2995.5 5318.0 5496.4	418.6 2952.6 884.5	6150.0 29594.7 4526.8	7021.1 4373.5 1082.9	2290.3 1327.2 17476.5	1466.5 1574.1	1358.4 2343.1	1348.1 1230.7	5088.8	0042-0
3378.00	S/Sst	51.3 0.0	13.6 0.0	8.5 0.0	7.4 147.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0034-2
3396.00	S/Sst	321.4 36.3 10.0	37.6 25.9 5.7	51.1 381.0 14.5	48.7 19.2 10.1	9.2 17.5	11.6 0.0	16.2 0.0	11.4 12.6	29.7 18.4	0036-2

* 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 34/10-41S/41ST2

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
2507.00	Sh/Clst	22628.8	23006.3	18257.2	21988.3	23483.1	20942.5	6310.9	7475.0	0001-1
2519.00	Sh/Clst	21409.4	21628.9	17098.8	20743.3	21248.5	19797.6	5956.3	6921.1	0037-1
2528.00	Sh/Clst	9193.9	9101.3	7217.3	8724.6	9002.2	8103.2	2237.4	3082.0	0008-1
2540.00	Sh/Clst	5600.1	5551.8	4184.5	5437.0	5546.5	5158.2	1203.6	1452.6	0009-1
2549.00	Sh/Clst	2752.3	2631.2	2034.1	2516.3	2669.7	2380.1	442.1	639.2	0011-1
2558.00	S/Sst	476.5	393.3	251.2	319.6	322.6	293.5	55.2	51.3	0013-2
2576.00	S/Sst	92.3	83.9	48.5	72.7	69.7	64.2	9.7	12.1	0016-2
2610.00	S/Sst	78.7	54.3	30.6	41.9	42.2	40.8	4.6	4.9	0020-2
2886.00	Sh/Clst	1193.3	1141.0	874.3	1307.4	1187.0	1033.2	127.8	313.2	0024-2
2911.00	Sh/Clst	4310.0	4211.5	3143.7	4178.4	4235.5	3838.0	692.3	1107.7	0025-2
2992.00	Sh/Clst	1571.9	1447.2	968.2	1452.9	1514.2	1278.5	191.0	482.2	0028-1
3004.00	S/Sst	1070.2	1182.8	473.6	789.3	1615.6	1364.0	22.3	27.9	0029-2
3025.00	bulk	6106.1	4300.7	1703.8	1647.0	3818.2	2041.3	339.1	774.5	0042-0
3378.00	S/Sst	8.3	7.6	4.3	5.3	3.8	4.7	1.4	1.4	0034-2
3396.00	S/Sst	53.3	42.7	19.3	30.4	28.5	22.1	3.9	6.1	0036-2

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Lithology	25nor28aß	25nor30aß	Sample
2507.00	Sh/Clst	10713.0	910.3	0001-1
2519.00	Sh/Clst	9857.4	840.8	0037-1
2528.00	Sh/Clst	4566.0	568.4	0008-1
2540.00	Sh/Clst	2887.8	226.3	0009-1
2549.00	Sh/Clst	1227.4	51.2	0011-1
2558.00	S/Sst	81.4	4.9	0013-2
2576.00	S/Sst	155.4	0.0	0016-2
2610.00	S/Sst	50.9	3.6	0020-2
2886.00	Sh/Clst	435.8	28.5	0024-2
2911.00	Sh/Clst	2052.1	129.5	0025-2
2992.00	Sh/Clst	348.8	36.9	0028-1
3004.00	S/Sst	14.7	5.9	0029-2
3025.00	bulk	256.1	57.1	0042-0
3378.00	S/Sst	0.0	0.0	0034-2
3396.00	S/Sst	0.0	0.0	0036-2

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 34/10-41S/41ST2

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	
2507.00	Sh/Clst	33431.8	24348.8	10428.9	25238.9	7045.2	50087.2	82732.0	54997.8	12684.0	0001-1
		196303.9	65548.9	18971.6	90610.5	0.0	481233.2	89696.1	26865.0	136135.1	
		279601.8	66931.8	75912.3	52188.6	40637.1	28654.8	21498.0	22513.9	16439.9	
2519.00	Sh/Clst	34480.7	24436.4	9190.2	21630.7	6613.0	49594.3	71500.8	55376.4	11821.0	0037-1
		178663.3	64752.1	18640.6	73248.8	0.0	449213.3	73603.0	23032.4	126583.6	
		229814.9	66131.7	68011.7	49389.3	37162.0	27932.9	21124.3	23255.9	15804.6	
2528.00	Sh/Clst	23214.3	16275.8	5883.9	17015.7	4406.4	35380.7	71753.9	36047.1	9506.1	0008-1
		155915.0	44000.8	12855.8	78017.6	0.0	379095.7	85902.2	25473.8	98612.6	
		269749.3	43860.6	58967.9	34104.7	27800.4	19774.3	13236.0	12682.0	9488.0	
2540.00	Sh/Clst	29909.5	21886.2	6037.0	18192.7	3933.5	46372.0	67176.8	49599.3	9156.2	0009-1
		176973.5	60119.3	14998.4	70054.0	0.0	443165.4	72815.3	20841.9	120158.5	
		237521.7	59621.6	62646.1	42625.1	31318.9	18808.4	13515.2	14597.3	8520.6	
2549.00	Sh/Clst	26809.9	14319.2	3301.5	9442.3	1984.0	29169.0	63737.1	30279.5	4912.2	0011-1
		152342.5	41775.0	8149.5	66316.4	0.0	389252.4	71873.1	16167.6	96793.8	
		255011.2	39975.8	53519.5	27484.4	21277.6	10797.3	6990.2	7388.8	4527.7	
2558.00	S/Sst	47386.8	17890.5	3643.6	3280.2	1302.7	8158.4	6529.9	5373.4	950.2	0013-2
		35940.8	7198.4	1308.4	2201.3	0.0	97056.2	2617.4	755.9	19517.3	
		11535.4	7268.6	4378.5	4305.8	2151.6	1694.0	1074.6	975.4	528.7	
2576.00	S/Sst	12913.4	5116.0	961.0	1100.3	404.2	1576.6	1966.0	930.0	415.3	0016-2
		10232.7	1408.8	206.1	1183.0	0.0	26372.6	1471.8	270.5	2886.1	
		6720.5	954.2	869.0	572.2	358.8	264.7	194.1	214.1	149.2	

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 34/10-41S/41ST2

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	
2610.00	S/Sst	14717.4	4587.7	881.5	935.4	553.7	1730.5	1978.8	904.7	582.6	0020-2
		12885.2	2037.9	407.1	675.0	0.0	31531.2	694.8	337.2	4654.3	
		3337.5	1335.4	1055.5	921.0	589.8	349.0	218.8	220.6	195.3	
2886.00	Sh/Clst	18577.2	7574.1	1764.7	6405.1	772.3	21503.9	85339.5	17813.7	6859.8	0024-2
		191131.1	46507.5	5269.3	112324.5	0.0	513295.6	120293.8	23951.4	88380.9	
		414746.8	20209.1	58348.0	11281.7	12662.3	3131.2	2821.1	2083.5	1115.2	
2911.00	Sh/Clst	23966.0	15161.6	4011.6	13806.5	2238.3	31400.4	83241.0	38971.6	9280.3	0025-2
		184816.2	55422.4	13407.2	90333.5	0.0	474839.3	106452.6	23890.7	112629.1	
		330212.2	41377.5	66319.6	27281.5	24018.6	12076.3	8758.2	8306.2	5074.0	
2992.00	Sh/Clst	11702.3	6833.6	1905.4	8124.3	1443.9	11031.7	74924.5	10825.2	5602.3	0028-1
		121890.5	17229.7	5397.3	73753.1	0.0	300322.9	102590.4	15419.9	65260.3	
		291495.0	12744.4	50466.6	5878.4	9773.7	2419.2	2653.7	1417.2	1123.0	
3004.00	S/Sst	4033.1	1656.1	492.8	714.0	234.7	2039.5	3791.4	845.6	396.6	0029-2
		20345.8	2996.2	399.4	2178.6	0.0	52438.2	2232.0	949.5	12061.5	
		11100.8	5151.6	4604.2	3230.2	1915.1	19578.8	1511.6	2466.7	1647.8	
3025.00	bulk	16906.1	7451.4	2126.3	3046.1	1021.7	11289.0	32610.3	11600.6	1810.8	0042-0
		72738.1	28430.9	9596.4	39523.6	0.0	310810.1	43300.1	10516.8	30367.7	
		78879.8	8996.5	27571.4	2693.7	11724.2	967.3	4491.3	751.1	4824.3	
3378.00	S/Sst	1727.5	574.4	117.5	161.9	62.7	108.5	61.8	0.0	0.0	0034-2
		309.0	68.5	0.0	59.4	0.0	579.8	48.5	0.0	157.2	
		111.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 34/10-41S/41ST2

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	
3396.00	S/Sst	2320.2	720.2	154.5	134.3	80.6	213.7	200.5	61.8	41.7	0036-2
		1460.1	187.8	41.1	82.0	0.0	3274.5	71.2	27.4	333.0	
		261.6	89.3	69.9	42.8	27.3	20.1	7.5	14.4	15.2	

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2507.00	Sh/Clst	101781.5	38258.5	84169.0	58650.1	22891.4	26040.1	47512.6	32946.4	40219.4	0001-1
		65884.9	66268.3	64844.9	49164.2	18656.7	24981.6	45460.6	57999.5		
		29786.8	29771.7	63041.1	50254.2	56693.0					
2519.00	Sh/Clst	93346.0	36955.3	84557.0	58316.4	23571.6	25792.4	47244.3	34585.6	43141.4	0037-1
		71189.7	68384.6	68133.2	50980.9	20116.4	26537.1	47796.6	59053.6		
		29470.1	30001.2	63346.4	50753.5	56915.6					
2528.00	Sh/Clst	71077.6	23702.9	54460.6	39543.0	14806.1	16340.4	29883.9	20766.4	26176.7	0008-1
		44714.1	42512.1	52822.8	31969.5	11598.0	14710.5	29784.1	37628.8		
		19514.5	18127.0	40295.5	31775.9	41857.0					
2540.00	Sh/Clst	90949.8	29725.9	71592.5	47207.0	14865.5	19391.3	37522.9	24222.8	32999.4	0009-1
		60216.0	57779.2	56085.4	40542.8	13213.5	17141.6	36172.1	48993.1		
		21804.8	22473.0	51603.4	42128.6	45634.4					
2549.00	Sh/Clst	67307.2	16981.9	43649.8	29482.6	7681.8	8072.4	21043.3	14208.3	17523.3	0011-1
		36526.8	32490.9	40035.4	23709.7	6990.9	8872.1	21918.1	28858.9		
		12881.6	12161.3	31758.9	24291.7	31153.0					
2558.00	S/Sst	55627.8	11285.6	18605.6	15449.0	3825.5	3903.7	6464.6	3735.9	6237.5	0013-2
		17268.6	12646.1	31860.0	7815.7	2590.3	2932.0	6104.0	9840.0		
		2659.7	3867.8	9953.6	7143.2	6045.0					

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

Table 11h: Amount of steranes (ppb) m/z 217 SIR for Well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2576.00	S/Sst	24446.8	4351.7	4552.0	3535.2	1042.3	1181.5	1725.5	1109.1	1950.7	0016-2
		4454.7	2790.5	16339.7	2443.3	909.5	563.1	1092.9	2082.1		
		712.8	642.4	1969.9	1390.2	1989.7					
2610.00	S/Sst	18632.7	2312.6	2698.1	3346.8	484.2	649.6	756.0	475.9	1652.1	0020-2
		2714.8	1562.2	17558.5	1356.6	351.3	282.7	689.0	1079.5		
		425.4	446.3	896.5	631.4	1160.4					
2886.00	Sh/Clst	61849.6	10846.3	27323.5	23438.1	4738.5	5220.5	17166.6	11736.3	9629.4	0024-2
		26400.7	20228.8	50234.3	17471.2	4253.7	4839.7	13031.1	17716.7		
		11673.8	4847.1	18129.8	12419.1	33663.5					
2911.00	Sh/Clst	57611.0	17355.6	44479.9	35843.0	10034.5	9607.6	23628.1	17129.6	21062.1	0025-2
		41563.2	37933.0	55767.0	29682.0	8813.4	10637.3	25476.0	33667.6		
		18129.0	12865.2	34701.3	26626.6	41479.6					
2992.00	Sh/Clst	59757.6	11470.7	21865.6	16348.3	4945.5	5184.3	10217.6	7138.1	8541.9	0028-1
		20617.4	16206.4	40510.4	14197.2	4633.8	4400.6	11378.9	14676.7		
		9509.6	5043.8	18172.3	11079.9	32738.0					
3004.00	S/Sst	8555.4	1257.2	7605.9	7003.7	1487.6	1497.5	1436.1	1193.9	4773.9	0029-2
		9566.0	8729.4	33548.3	4287.1	1167.3	1237.2	3481.8	5528.5		
		2959.1	3461.1	11638.1	8727.0	14794.4					

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

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
3025.00	bulk	43274.6	6047.6	88844.8	101429.3	33086.0	21185.3	19624.3	19475.1	73514.5	0042-0
		76825.4	42654.1	427535.0	63181.1	19173.4	22740.3	33849.2	17779.2		
		79402.3	12777.5	65396.0	15644.3	252472.1					
3378.00	S/Sst	2180.4	577.2	361.4	315.3	0.0	0.0	0.0	0.0	0.0	0.0 0034-2
		0.0	0.0	0.0	6272.5	0.0	0.0	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	0.0	0.0				
3396.00	S/Sst	4601.8	538.5	731.9	698.0	132.2	165.8	231.9	163.7	424.7	0036-2
		520.1	371.1	5455.5	274.2	0.0	0.0	181.0	264.2		
		142.5	82.0	207.4	145.1	250.3					

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

Table 11i: Amount of standard and weight of sample for Well NOCS 34/10-41S/41ST2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Standard</u>	<u>Amount</u>	<u>Weight</u>	<u>Sample</u>
2507.00	Sh/Clst	175927.9	0.700	0.8	0001-1
2519.00	Sh/Clst	182250.7	0.700	0.7	0037-1
2528.00	Sh/Clst	176382.1	0.700	0.5	0008-1
2540.00	Sh/Clst	71385.1	0.700	0.6	0009-1
2549.00	Sh/Clst	65850.0	0.700	0.5	0011-1
2558.00	S/Sst	121290.7	0.700	0.1	0013-2
2576.00	S/Sst	123285.1	0.700	0.1	0016-2
2610.00	S/Sst	132218.9	0.700	0.1	0020-2
2886.00	Sh/Clst	130040.4	0.700	0.2	0024-2
2911.00	Sh/Clst	129073.6	0.700	0.4	0025-2
2992.00	Sh/Clst	136990.7	0.700	0.3	0028-1
3004.00	S/Sst	167154.4	0.700	0.3	0029-2
3025.00	bulk	161517.1	0.700	0.3	0042-0
3378.00	S/Sst	164842.2	0.700	0.1	0034-2
3396.00	S/Sst	162963.2	0.700	0.3	0036-2

Table 12a: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 34/10-41S/41ST2

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>
2507.00	Sh/Clst	0.65	0.62	0.33	0.34	0.39	0001-1
2519.00	Sh/Clst	0.27	0.25	0.10	0.10	0.14	0037-1
2528.00	Sh/Clst	0.66	0.64	0.34	0.36	0.41	0008-1
2540.00	Sh/Clst	0.64	0.61	0.33	0.34	0.40	0009-1
2549.00	Sh/Clst	0.68	0.68	0.36	0.36	0.40	0011-1
2558.00	S/Sst	0.48	0.52	0.26	0.23	0.30	0013-2
2576.00	S/Sst	0.78	0.74	0.51	0.53	0.59	0016-2
2610.00	S/Sst	0.82	0.77	0.53	0.58	0.61	0020-2
2886.00	Sh/Clst	0.71	0.71	0.38	0.39	0.42	0024-2
2911.00	Sh/Clst	0.70	0.69	0.37	0.38	0.42	0025-2
2992.00	Sh/Clst	0.69	0.67	0.33	0.36	0.36	0028-1
3004.00	S/Sst	0.52	0.43	0.20	0.24	0.24	0029-2
3025.00	bulk	0.36	0.20	0.14	0.17	0.26	0042-0

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 12a: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 34/10-41S/41ST2

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>
3378.00	S/Sst	0.73	0.66	0.46	0.49	0.57	0034-2
3396.00	S/Sst	0.77	0.74	0.48	0.51	0.55	0036-2

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 34/10-41S/41ST2

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>
2507.00	Sh/Clst	0.18	0.11	0.11	0.10	0001-1
2519.00	Sh/Clst	0.05	0.02	0.03	0.03	0037-1
2528.00	Sh/Clst	0.18	0.10	0.11	0.10	0008-1
2540.00	Sh/Clst	0.17	0.11	0.11	0.10	0009-1
2549.00	Sh/Clst	0.15	0.09	0.09	0.09	0011-1
2558.00	S/Sst	0.17	0.10	0.11	0.10	0013-2
2576.00	S/Sst	0.20	0.10	0.11	0.09	0016-2
2610.00	S/Sst	0.40	0.29	0.22	0.19	0020-2
2886.00	Sh/Clst	0.08	0.04	0.04	0.04	0024-2
2911.00	Sh/Clst	0.13	0.06	0.07	0.06	0025-2
2992.00	Sh/Clst	0.13	0.05	0.07	0.06	0028-1
3004.00	S/Sst	0.15	0.07	0.08	0.06	0029-2
3025.00	bulk	0.12	0.06	0.06	0.03	0042-0
3378.00	S/Sst	0.43	0.34	0.28	0.26	0034-2

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 12b: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 34/10-41S/41ST2

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>
3396.00	S/Sst	0.28	0.13	0.16	0.13	0036-2

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 34/10-41S/41ST2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
2507.00	Sh/Clst	0.43	0.80	0001-1
2519.00	Sh/Clst	0.36	0.85	0037-1
2528.00	Sh/Clst	0.36	0.83	0008-1
2540.00	Sh/Clst	0.34	0.85	0009-1
2549.00	Sh/Clst	0.34	0.84	0011-1
2558.00	S/Sst	0.26	0.91	0013-2
2576.00	S/Sst	0.56	0.62	0016-2
2610.00	S/Sst	0.44	0.71	0020-2
2886.00	Sh/Clst	0.40	0.78	0024-2
2911.00	Sh/Clst	0.38	0.80	0025-2
2992.00	Sh/Clst	0.53	0.56	0028-1
3004.00	S/Sst	0.58	0.58	0029-2
3025.00	bulk	0.79	0.29	0042-0

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

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

Table 12c: Aromatisation of Steranes (peak height) for Well NOCS 34/10-41S/41ST2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3378.00	S/Sst	0.54	0.71	0034-2
3396.00	S/Sst	0.61	0.63	0036-2

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

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

Table 12d: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 34/10-41S/41ST2

Depth unit of measure: m

Depth	Lithology	al	bl	cl	dl	el	f1	g1	Sample
2507.00	Sh/Clst	141927.6	129660.6	54139.1	217400.2	83384.5	111922.5	78082.8	0001-1
2519.00	Sh/Clst	18599.1	16620.5	30295.8	112064.6	47339.5	61571.9	49732.8	0037-1
2528.00	Sh/Clst	15402.5	13987.7	5319.4	22608.6	8297.0	11780.8	7896.6	0008-1
2540.00	Sh/Clst	36299.4	32446.3	13573.0	54370.8	21790.8	29248.9	20673.2	0009-1
2549.00	Sh/Clst	13589.3	13528.5	4461.6	19998.5	7280.1	10079.5	6467.1	0011-1
2558.00	S/Sst	3079.6	3637.2	1701.8	7228.1	3450.7	3759.2	3320.8	0013-2
2576.00	S/Sst	3297.2	2660.1	465.4	2302.6	912.8	1113.8	914.3	0016-2
2610.00	S/Sst	1237.2	921.7	180.2	787.6	330.2	313.6	267.6	0020-2
2886.00	Sh/Clst	7798.2	7559.7	2145.6	10910.7	3592.8	5514.5	3133.7	0024-2
2911.00	Sh/Clst	9149.7	8881.9	2668.7	12684.6	4376.2	6429.0	3987.0	0025-2
2992.00	Sh/Clst	4464.1	4071.5	1186.8	7844.6	2295.4	3612.3	2027.3	0028-1
3004.00	S/Sst	386.3	273.2	217.4	1197.9	465.9	392.2	362.0	0029-2
3025.00	bulk	2874.6	1294.7	3512.1	8348.0	3528.6	5168.9	5162.5	0042-0
3378.00	S/Sst	37.0	26.2	7.9	28.1	9.4	14.9	13.7	0034-2
3396.00	S/Sst	551.9	454.6	90.9	452.0	163.0	199.6	163.3	0036-2

Table 12e: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 34/10-41S/41ST2

Page: 1

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
2507.00	Sh/Clst	30055.6	17383.2	30149.5	27156.0	140009.1	31662.2	103701.2	59745.4	19463.3	0001-1
2519.00	Sh/Clst	3467.8	1548.8	2747.4	13012.2	62230.4	11641.9	42358.9	26728.2	8982.4	0037-1
2528.00	Sh/Clst	2285.9	1220.5	1998.7	1800.1	10549.4	1954.9	7910.2	5839.1	1590.5	0008-1
2540.00	Sh/Clst	5147.7	3006.3	5324.0	4758.5	24719.3	4389.4	18125.9	12106.4	3646.6	0009-1
2549.00	Sh/Clst	1528.7	866.7	1536.0	1378.6	8515.0	1662.7	6438.7	4157.1	1216.7	0011-1
2558.00	S/Sst	490.2	256.9	604.5	591.9	2424.4	331.6	1686.5	918.2	314.7	0013-2
2576.00	S/Sst	484.8	230.4	337.4	326.2	1970.7	670.1	1855.5	1602.1	564.7	0016-2
2610.00	S/Sst	219.8	131.7	102.3	77.8	327.4	107.3	450.5	309.2	106.8	0020-2
2886.00	Sh/Clst	470.6	212.4	530.0	528.1	5389.9	888.6	4820.9	3582.8	884.3	0024-2
2911.00	Sh/Clst	872.2	396.3	930.0	910.9	5930.0	1001.3	4912.7	3640.2	1021.4	0025-2
2992.00	Sh/Clst	898.8	312.9	777.6	861.5	5897.8	890.0	5601.9	3541.8	1565.3	0028-1
3004.00	S/Sst	161.2	71.6	313.4	342.7	935.5	74.3	936.8	775.0	264.2	0029-2
3025.00	bulk	2409.7	1061.8	8448.2	9564.0	17965.1	1765.7	23074.9	23953.6	12763.9	0042-0
3378.00	S/Sst	18.0	12.3	10.3	8.6	23.9	5.9	21.5	9.3	5.7	0034-2
3396.00	S/Sst	177.0	67.2	105.4	139.0	459.4	57.4	500.3	300.4	97.9	0036-2