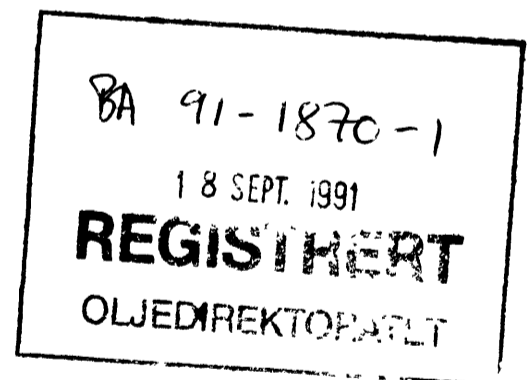


GEOCHEMICAL ANALYSIS REPORT
WELL NOCS 34/4-3

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INTRODUCTION

Well NOCS 34/4-3 is situated north of the Snorre field in the Norwegian sector of the North Sea. The total drilled depth was 4460 m. The well is located at 61°36'32.95"N and 02°07'34.42"E at a water depth of 366 m. Elevation of Kelly Bushing (KB) was 25 m. All depths are relative to KB unless otherwise specified. Samples were collected between 1890 m and 4460 m from the Norwegian Petroleum Directorate in Stavanger. A total of 212 samples was collected, washed (only the cuttings samples) and described. The analysed section of the well is from 2620 m to 4460 m with a sampling interval of 6 to 30 m for the cuttings samples and at variable intervals for the core chip samples. A careful selection of suitable samples was made for screening analysis (i.e. TOC and Rock-Eval analysis). Fifty-two samples were selected for this analysis, and from the data obtained samples were chosen for follow-up analyses. These were:

Thermal extraction - pyrolysis - gas chromatography	16 samples
Extraction, MPLC fractionation, saturated and aromatic hydrocarbon gas chromatography	6 samples
Vitrinite reflectance microscopy	14 samples
Visual kerogen analysis	11 samples
Isotope analysis of C15+ fractions	4 samples
Gas chromatography - mass spectrometry	4 samples

Tables listing in detail the samples analysed and the results are located in Appendix 1.

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1890.00						0046
				100 Sh/Clst: ol gy, slt		0046-1L
1920.00						0047
				100 Sh/Clst: ol gy, slt		0047-1L
1950.00						0048
				100 Sh/Clst: ol gy, slt		0048-1L
1980.00						0049
				100 Sh/Clst: ol gy, slt		0049-1L
2010.00						0050
				100 Sh/Clst: ol gy to m gy, slt		0050-1L
2040.00						0051
				100 Sh/Clst: ol gy to m gy, slt		0051-1L
2070.00						0052
				100 Sh/Clst: ol gy to m gy, slt		0052-1L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2110.00						0053	
		100	Sh/Clst: ol gy to m gy, slt			0053-1L	
			tr Other : glauc			0053-2L	
2140.00						0054	
		100	Sh/Clst: ol gy to m gy, calc, slt			0054-1L	
			tr Other : glauc			0054-2L	
			tr Sh/Clst: gy red, gn gy			0054-3L	
2170.00						0055	
		100	Sh/Clst: ol gy to m gy, calc, slt			0055-1L	
			tr Other : glauc			0055-2L	
			tr Sh/Clst: gy red, gn gy			0055-3L	
2200.00						0056	
		100	Sh/Clst: ol gy to m gy, calc, slt			0056-1L	
			tr Other : glauc			0056-2L	
			tr Sh/Clst: gy red, gn gy			0056-3L	
2230.00						0057	
		100	Sh/Clst: m gy			0057-1L	
			tr Ca : dsk y brn, dol			0057-2L	
2300.00						0058	
		100	Sh/Clst: m gy			0058-1L	
			tr Ca : dsk y brn, dol			0058-2L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2330.00						0059
			100	Sh/Clst: m gy		0059-1L
			tr Ca	: dsk y brn, dol		0059-2L
			tr Cont	: Coal-ad, prp		0059-3L
2360.00						0060
			100	Sh/Clst: m gy		0060-1L
			tr Ca	: dsk y brn, dol		0060-2L
			tr Cont	: Coal-ad, prp		0060-3L
2400.00						0061
			100	Sh/Clst: m gy		0061-1L
			tr Ca	: dsk y brn, dol		0061-2L
			tr Cont	: Coal-ad, prp		0061-3L
2440.00						0062
			100	Sh/Clst: m gy		0062-1L
			tr Ca	: dsk y brn, dol		0062-2L
			tr Cont	: Coal-ad, prp		0062-3L
2470.00						0063
			100	Sh/Clst: m gy		0063-1L
			tr Cont	: Coal-ad, prp		0063-2L
			tr S/Sst	: lt gy, f, cem		0063-3L
2500.00						0064
			100	Sh/Clst: m gy		0064-1L
			tr Cont	: Coal-ad, prp		0064-2L
			tr S/Sst	: lt gy, f, cem		0064-3L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2530.00						0065
			100	Sh/Clst: m gy		0065-1L
			tr	Cont : Coal-ad, prp		0065-2L
			tr	S/Sst : lt gy, f, cem		0065-3L
2560.00						0066
			80	Sh/Clst: m gy		0066-1L
			20	S/Sst : lt gy, calc, f, cem		0066-2L
2590.00						0067
			80	Sh/Clst: m gy		0067-1L
			20	S/Sst : lt gy, calc, f, cem		0067-2L
			tr	Cont : prp		0067-3L
2620.00						0068
			80	Sh/Clst: m gy		0068-1L
			20	S/Sst : lt gy, calc, f, cem		0068-2L
			tr	Cont : prp		0068-3L
2650.00						0069
			90	Sh/Clst: m gy to drk gy		0069-1L
			10	S/Sst : lt gy, calc, f, cem		0069-2L
2680.00						0070
			90	Sh/Clst: m gy to drk gy		0070-1L
			10	S/Sst : lt gy, calc, f, cem		0070-2L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2710.00						0071	
			90	Sh/Clst: m gy to drk gy		0071-1L	
			10	S/Sst : lt gy, calc, f, cem		0071-2L	
2740.00						0072	
	0.78	100		Sh/Clst: drk gy, calc		0072-1L	
2780.00						0073	
			100	Sh/Clst: drk gy, calc		0073-1L	
2810.00						0074	
			100	Sh/Clst: drk gy, calc		0074-1L	
2840.00						0075	
			100	Sh/Clst: drk gy, calc		0075-1L	
				tr Cont : prp, bar		0075-2L	
2870.00						0076	
			100	Sh/Clst: drk gy, calc		0076-1L	
				tr Cont : prp, bar		0076-2L	
2900.00						0077	
			100	Sh/Clst: m gy to drk gy, calc, slt		0077-1L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2930.00						0078	
	0.96	100	Sh/Clst: m gy to drk gy, calc, slt			0078-1L	
2960.00						0079	
			50 Sh/Clst: m gy, calc, slt			0079-1L	
			50 Cont : Coal-ad			0079-2L	
2999.00						0080	
			75 Cont : Coal-ad			0080-2L	
			25 Sh/Clst: m gy, calc, slt			0080-1L	
3030.00						0081	
			90 Sh/Clst: m gy to drk gy, calc			0081-1L	
			10 Cont : Coal-ad			0081-2L	
			tr S/Sst : lt gy, f, cem			0081-3L	
3060.00						0082	
			100 Sh/Clst: m gy to drk gy, calc			0082-1L	
			tr Cont : Coal-ad			0082-2L	
			tr S/Sst : lt gy, f, cem			0082-3L	
3090.00						0083	
			90 Sh/Clst: drk gy			0083-1L	
			10 Ca : lt gy			0083-2L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3120.00						0084
			100	Sh/Clst: drk gy, calc		0084-1L
3150.00						0085
			80	Sh/Clst: drk gy, calc		0085-1L
			20	Cont : Coal-ad		0085-2L
3180.00						0086
			90	Sh/Clst: drk gy, calc		0086-1L
			10	Cont : Coal-ad		0086-2L
3210.00						0087
			100	Sh/Clst: drk gy, calc		0087-1L
			tr	Cont : Coal-ad		0087-2L
3240.00						0088
			100	Sh/Clst: drk gy, calc		0088-1L
3270.00						0089
			100	Sh/Clst: drk gy, calc		0089-1L
3300.00						0090
			100	Sh/Clst: drk gy, calc		0090-1L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3330.00			Sht1		Upper Cretaceous	0091
	0.68	100	Sh/Clst: m gy to drk gy, calc			0091-1L
3360.00						0092
		100	Sh/Clst: m gy to drk gy, calc			0092-1L
3390.00						0093
		50	Sh/Clst: m gy to drk gy, calc			0093-1L
		50	Cont : Coal-ad			0093-2L
3422.00						0094
		80	Sh/Clst: drk gy			0094-1L
		10	Cont : Coal-ad			0094-2L
		10	Cont : cem			0094-3L
3452.00						0095
		80	Sh/Clst: drk gy			0095-1L
		20	Cont : cem, prp			0095-2L
3482.00						0096
	0.63	80	Sh/Clst: drk gy			0096-1L
		20	Cont : cem, prp			0096-2L
3512.00						0097
		80	Sh/Clst: drk gy			0097-1L
		20	Cont : Coal-ad, cem, prp, tar-ad			0097-2L
		tr Ca	: dsk y brn			0097-3L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3527.00						0098
	cvd		60	Sh/Clst: drk gy		0098-1L
			40	Ca : w to lt gy		0098-3L
			tr	Cont : prp		0098-2L
3533.00						0099
	cvd		40	Ca : w to lt gy		0099-3L
			30	Sh/Clst: drk gy		0099-1L
		6.43	30	Sh/Clst: dsk y brn to ol blk, calc		0099-4L
			tr	Cont : prp		0099-2L
3539.00						0100
			40	Sh/Clst: drk gy		0100-1L
			30	Cont : prp		0100-2L
	cvd	5.88	20	Sh/Clst: dsk y brn to ol blk, calc		0100-4L
			10	Ca : w to lt gy		0100-3L
3545.00						0101
		0.65	95	Sh/Clst: drk gy		0101-1L
			5	Sh/Clst: gy red, lt gn gy		0101-5L
			tr	Cont : prp		0101-2L
	cvd		tr	Ca : w to lt gy		0101-3L
			tr	Sh/Clst: dsk y brn to ol blk, calc		0101-4L
3551.00						0102
			60	S/Sst : w, l		0102-3L
			30	Sh/Clst: drk gy		0102-1L
			10	Cont : prp		0102-2L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3557.00						0103
			65	Sh/Clst: drk gy		0103-1L
			20	Sh/Clst: gy blk, mic		0103-4L
			10	S/Sst : w, l		0103-3L
			5	Sh/Clst: red brn		0103-5L
			tr	Cont : prp		0103-2L
3563.00						0104
			55	Sh/Clst: drk gy		0104-1L
			30	S/Sst : w		0104-3L
			15	Sh/Clst: gy blk, mic		0104-4L
			tr	Cont : prp		0104-2L
			tr	Sh/Clst: red brn		0104-5L
3567.50	ccp					0247
			50	Sh/Clst: drk gy		0247-1L
			50	S/Sst : w to lt gy		0247-2L
	1.94			bulk		0247-0B
3569.00						0105
			60	S/Sst : w to lt gy		0105-2L
			30	Sh/Clst: drk gy		0105-1L
			5	Cont : Coal-ad		0105-3L
			5	Sh/Clst: red brn		0105-4L
3573.50	ccp					0248
		0.15	90	S/Sst : w to lt gy, calc		0248-2L
			10	Sh/Clst: drk gy		0248-1L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3575.00						0106
				80 Sh/Clst: drk gy		0106-1L
				15 Cont : Coal-ad, prp, tar-ad		0106-3L
				5 S/Sst : w to lt gy, calc		0106-2L
				tr Sh/Clst: gy blk, mic		0106-4L
3579.40	ccp					0249
		3.55	100	Sh/Clst: drk gy, s		0249-1L
3581.00						0107
				90 Sh/Clst: drk gy		0107-1L
				5 S/Sst : w to lt gy		0107-2L
				5 Cont : Coal-ad, prp, tar-ad		0107-3L
				tr Sh/Clst: gy blk, mic		0107-4L
				tr Sh/Clst: red brn		0107-5L
3584.65	ccp					0250
		2.13	100	Sh/Clst: drk gy, s		0250-1L
3587.00						0108
				70 Sh/Clst: drk gy		0108-1L
				20 Cont : Coal-ad, prp, tar-ad		0108-2L
				10 S/Sst : w to lt gy		0108-3L
3593.00						0109
				45 Sh/Clst: drk gy		0109-1L
				45 S/Sst : w to lt gy		0109-3L
				5 Cont : Coal-ad, prp, tar-ad		0109-2L
				5 Sh/Clst: gy blk, mic		0109-4L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3599.00						0110
	0.68			45 Sh/Clst: drk gy		0110-1L
				45 S/Sst : w to lt gy		0110-3L
				5 Cont : Coal-ad, prp, tar-ad		0110-2L
				5 Sh/Clst: gy blk, mic		0110-4L
3605.00						0111
				60 S/Sst : w to lt gy		0111-3L
				35 Sh/Clst: drk gy		0111-1L
				5 Sltst : gy blk, s, mic		0111-4L
				tr Cont : Coal-ad, prp, tar-ad		0111-2L
3611.00						0112
				70 S/Sst : w to lt gy		0112-3L
				25 Sh/Clst: drk gy		0112-1L
				5 Sltst : gy blk, s, mic		0112-4L
				tr Cont : Coal-ad, prp, tar-ad		0112-2L
3617.00						0113
	0.10			80 S/Sst : w to lt gy		0113-3L
				15 Sh/Clst: drk gy		0113-1L
				5 Sltst : gy blk, s, mic		0113-4L
				tr Cont : Coal-ad, prp, tar-ad		0113-2L
3623.00						0114
				80 S/Sst : w to lt gy		0114-3L
				15 Sh/Clst: drk gy		0114-1L
				5 Sltst : gy blk, s, mic		0114-4L
				tr Cont : Coal-ad, prp, tar-ad		0114-2L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3629.00						0115
				80 S/Sst : w to lt gy		0115-3L
				15 Sh/Clst: drk gy		0115-1L
				5 Sltst : gy blk, s, mic		0115-4L
				tr Cont : Coal-ad, prp, tar-ad		0115-2L
3635.00						0116
				85 S/Sst : w to lt gy		0116-3L
				10 Sh/Clst: drk gy		0116-1L
				5 Sltst : gy blk, s, mic		0116-4L
				tr Cont : Coal-ad, prp, tar-ad		0116-2L
				tr Ca : w		0116-5L
3641.00						0117
				85 S/Sst : w to lt gy		0117-3L
				5 Sh/Clst: drk gy		0117-1L
				5 Cont : Coal-ad		0117-2L
				5 Sltst : gy blk, s, mic		0117-4L
3647.00						0118
				85 S/Sst : w to lt gy		0118-3L
				10 Sltst : gy blk, s, mic		0118-4L
				5 Cont : Coal-ad		0118-2L
				tr Sh/Clst: drk gy		0118-1L
3653.00						0119
				85 S/Sst : w to lt gy		0119-3L
				10 Sltst : gy blk, s, mic		0119-4L
				5 Cont : Coal-ad		0119-2L
				tr Sh/Clst: drk gy		0119-1L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3659.00						0120
				75 S/Sst : w to lt gy		0120-3L
				20 Sltst : gy blk, s, mic		0120-4L
				5 Sh/Clst: drk gy		0120-1L
				tr Cont : Coal-ad		0120-2L
3665.00						0121
	4.03			50 Sltst : gy blk, s, mic		0121-4L
				45 S/Sst : w to lt gy		0121-3L
				5 Sh/Clst: drk gy		0121-1L
				tr Cont : Coal-ad		0121-2L
3671.00						0122
				40 S/Sst : w to lt gy		0122-3L
				40 Sltst : gy blk, s, mic		0122-4L
				20 Sh/Clst: drk gy		0122-1L
				tr Cont : Coal-ad		0122-2L
3677.00						0123
				50 Sh/Clst: drk gy		0123-1L
				20 S/Sst : w to lt gy		0123-3L
				20 Sltst : gy blk, s, mic		0123-4L
				10 Cont : Coal-ad		0123-2L
3683.00						0124
				40 S/Sst : w to lt gy		0124-3L
				25 Sh/Clst: drk gy		0124-1L
				20 Sltst : gy blk, s, mic		0124-4L
				15 Cont : Coal-ad		0124-2L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3689.00						0125
				60 Sh/Clst: drk gy		0125-1L
				30 S/Sst : w to lt gy		0125-3L
				5 Cont : Coal-ad		0125-2L
				5 Sltst : gy blk, s, mic		0125-4L
3695.00						0126
	0.67			75 Sh/Clst: drk gy		0126-1L
				20 S/Sst : w to lt gy		0126-3L
				5 Sltst : gy blk, s, mic		0126-4L
				tr Cont : Coal-ad		0126-2L
3701.00						0127
				80 S/Sst : w to lt gy		0127-3L
				20 Sh/Clst: drk gy		0127-1L
				tr Cont : Coal-ad		0127-2L
				tr Sltst : gy blk, s, mic		0127-4L
3707.00						0128
				50 Sh/Clst: drk gy		0128-1L
				50 S/Sst : w to lt gy		0128-3L
				tr Cont : Coal-ad		0128-2L
				tr Sltst : gy blk, s, mic		0128-4L
3713.00						0129
				60 S/Sst : w to lt gy		0129-3L
				40 Sh/Clst: drk gy		0129-1L
				tr Cont : Coal-ad		0129-2L
				tr Sltst : gy blk, s, mic		0129-4L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3719.00						0130	
	0.04	80	S/Sst	: w to lt gy		0130-3L	
		20	Sh/Clst:	drk gy		0130-1L	
			tr Cont	: Coal-ad		0130-2L	
			tr Sltst	: gy blk, s, mic		0130-4L	
3725.00						0131	
		75	S/Sst	: w to lt gy		0131-2L	
		25	Sh/Clst:	drk gy		0131-1L	
3731.00						0132	
		75	S/Sst	: w to lt gy		0132-2L	
		25	Sh/Clst:	drk gy		0132-1L	
3737.00						0133	
		75	S/Sst	: w to lt gy		0133-2L	
		25	Sh/Clst:	drk gy		0133-1L	
3743.00						0134	
		75	S/Sst	: w to lt gy		0134-2L	
		25	Sh/Clst:	drk gy		0134-1L	
			tr Cont	: prp		0134-3L	
3749.00						0135	
	0.04	75	S/Sst	: w to lt gy		0135-2L	
		25	Sh/Clst:	drk gy		0135-1L	
			tr Cont	: prp		0135-3L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3755.00						0136
				65 S/Sst : w to lt gy		0136-2L
				35 Sh/Clst: drk gy		0136-1L
				tr Cont : Coal-ad		0136-3L
3761.00						0137
				60 S/Sst : w to lt gy		0137-2L
				40 Sh/Clst: drk gy		0137-1L
				tr Cont : Coal-ad		0137-3L
3767.00						0138
	0.54			60 S/Sst : w to lt gy		0138-2L
				40 Sh/Clst: drk gy		0138-1L
				tr Cont : Coal-ad		0138-3L
3773.00						0139
				80 S/Sst : w to lt gy		0139-2L
				20 Sh/Clst: drk gy		0139-1L
				tr Cont : Coal-ad		0139-3L
3779.00						0140
				75 S/Sst : w to lt gy		0140-2L
				20 Sh/Clst: drk gy		0140-1L
				5 Cont : Coal-ad		0140-3L
3791.00						0141
	0.61			80 Sh/Clst: drk gy		0141-1L
				20 Cont : Coal-ad		0141-3L
				tr S/Sst : w to lt gy		0141-2L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3797.00						0142	
		70	Sh/Clst:	drk gy		0142-1L	
		30	Cont	: Coal-ad		0142-3L	
		tr	S/Sst	: w to lt gy		0142-2L	
3803.00						0143	
		50	Sh/Clst:	drk gy		0143-1L	
		50	Cont	: Coal-ad		0143-3L	
		tr	S/Sst	: w to lt gy		0143-2L	
3809.00						0144	
	0.60	75	Sh/Clst:	drk gy		0144-1L	
		20	Sh/Clst:	gy blk, mic		0144-4L	
		5	Cont	: Coal-ad		0144-3L	
		tr	S/Sst	: w to lt gy		0144-2L	
3815.00						0145	
		60	Sh/Clst:	drk gy		0145-1L	
		30	Sh/Clst:	gy blk, mic		0145-4L	
		5	S/Sst	: w to lt gy		0145-2L	
		5	Cont	: Coal-ad		0145-3L	
3821.00						0146	
		55	Sh/Clst:	drk gy		0146-1L	
		30	S/Sst	: w to lt gy		0146-2L	
		10	Sh/Clst:	gy blk, mic		0146-4L	
		5	Cont	: Coal-ad		0146-3L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3827.00						0147
				45 Sh/Clst: drk gy		0147-1L
				25 S/Sst : w to lt gy		0147-2L
				25 Cont : Coal-ad		0147-3L
				5 Sh/Clst: gy blk, mic		0147-4L
3833.00						0148
				60 Sh/Clst: drk gy		0148-1L
				20 Cont : Coal-ad		0148-3L
				10 S/Sst : w to lt gy		0148-2L
				10 Sh/Clst: gy blk, mic		0148-4L
3839.00						0149
	0.11			60 S/Sst : w to lt gy		0149-2L
				30 Sh/Clst: drk gy		0149-1L
				5 Cont : Coal-ad		0149-3L
				5 Sh/Clst: gy blk, mic		0149-4L
3845.00						0150
				40 Cont : Coal-ad, tar-ad		0150-3L
				20 Sh/Clst: drk gy		0150-1L
				20 S/Sst : w to lt gy		0150-2L
				10 Sh/Clst: drk y brn, wx		0150-4L
				10 Sh/Clst: ol gy to gn gy		0150-5L
3851.00						0151
	0.91			30 Sh/Clst: drk y brn to dsk y brn, wx		0151-4L
				25 Sh/Clst: drk gy		0151-1L
				25 Cont : Coal-ad, tar-ad		0151-3L
				10 S/Sst : w to lt gy		0151-2L
				10 Sh/Clst: ol gy to gn gy		0151-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3857.00						0152
				25 Sh/Clst: drk gy		0152-1L
				25 Sh/Clst: gy blk, mic		0152-6L
				20 Sh/Clst: drk y brn to dsk y brn, wx		0152-4L
				10 S/Sst : w to lt gy		0152-2L
				10 Cont : Coal-ad, tar-ad		0152-3L
				10 Sh/Clst: ol gy to gn gy		0152-5L
3863.00						0153
	1.17			70 Sh/Clst: gy blk to dsk y brn, mic		0153-5L
				20 Sh/Clst: drk y brn to dsk y brn, wx		0153-3L
				10 Sh/Clst: ol gy to gn gy		0153-4L
				tr S/Sst : w to lt gy		0153-1L
				tr Cont : Coal-ad, tar-ad		0153-2L
3869.00						0154
				70 Sh/Clst: gy blk to dsk y brn, mic		0154-5L
				15 Sh/Clst: drk y brn to dsk y brn, wx		0154-3L
				5 S/Sst : w to lt gy		0154-1L
				5 Cont : Coal-ad, tar-ad		0154-2L
				5 Sh/Clst: ol gy to gn gy		0154-4L
3875.00						0155
	0.96			90 Sh/Clst: gy blk to dsk y brn, mic		0155-4L
				10 Sh/Clst: drk y brn to dsk y brn, wx		0155-3L
				tr S/Sst : w to lt gy		0155-1L
				tr Cont : Coal-ad, tar-ad		0155-2L
3881.00						0156
				80 Sh/Clst: gy blk to dsk y brn, mic		0156-2L
				10 Sh/Clst: dsk y brn, wx		0156-1L
				10 Sh/Clst: ol gy to gn gy		0156-3L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3887.00						0157
				85 Sh/Clst: gy blk to dsk y brn, mic		0157-2L
				10 Sh/Clst: ol gy to gn gy		0157-3L
				5 Sh/Clst: dsk y brn, wx		0157-1L
3893.00						0158
				80 Sh/Clst: gy blk to dsk y brn, mic		0158-2L
				10 S/Sst : w, l		0158-1L
				10 Sh/Clst: ol gy to gn gy		0158-3L
3899.00						0159
				90 Sh/Clst: gy blk to dsk y brn, mic		0159-2L
				5 S/Sst : w, l		0159-1L
				5 Sh/Clst: ol gy to gn gy		0159-3L
3905.00						0160
				90 Sh/Clst: gy blk to dsk y brn, mic		0160-2L
				5 S/Sst : w, l		0160-1L
				5 Sh/Clst: ol gy to gn gy		0160-3L
3911.00						0161
	1.30			90 Sh/Clst: gy blk to dsk y brn, mic		0161-2L
				5 S/Sst : w, l		0161-1L
				5 Sh/Clst: ol gy to gn gy		0161-3L
3917.00						0162
				90 Sh/Clst: gy blk to dsk y brn, mic		0162-2L
				5 S/Sst : w, l		0162-1L
				5 Sh/Clst: ol gy to gn gy, drk gy		0162-3L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3923.00						0163	
		90	Sh/Clst: gy blk to dsk y brn, mic			0163-2L	
		5	S/Sst : w, l			0163-1L	
		5	Sh/Clst: ol gy to gn gy, drk gy			0163-3L	
3929.00						0164	
		90	Sh/Clst: gy blk to dsk y brn, mic			0164-2L	
		5	S/Sst : w to lt gy, l			0164-1L	
		5	Sh/Clst: ol gy to gn gy, drk gy			0164-3L	
3935.00						0165	
		90	Sh/Clst: gy blk to dsk y brn, mic			0165-2L	
		5	S/Sst : w to lt gy, l			0165-1L	
		5	Sh/Clst: ol gy to gn gy, drk gy			0165-3L	
3944.00						0166	
		90	Sh/Clst: gy blk to dsk y brn, mic			0166-2L	
		5	S/Sst : w to lt gy, l			0166-1L	
		5	Sh/Clst: ol gy to gn gy, drk gy			0166-3L	
3953.00						0167	
	1.39	90	Sh/Clst: gy blk to dsk y brn, mic			0167-2L	
		5	S/Sst : w to lt gy, l			0167-1L	
		5	Sh/Clst: ol gy to gn gy, drk gy			0167-3L	
		tr	Cont : prp, ns			0167-4L	
3959.00						0168	
		90	Sh/Clst: gy blk to dsk y brn, mic			0168-2L	
		5	S/Sst : w to lt gy, l			0168-1L	
		5	Sh/Clst: ol gy to gn gy, drk gy			0168-3L	
		tr	Cont : prp, ns, dd			0168-4L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3965.00						0169
				80 Sh/Clst: gy blk to dsk y brn, mic		0169-2L
				20 Sh/Clst: gn gy, drk gy		0169-3L
				tr S/Sst : w to lt gy, l		0169-1L
				tr Cont : prp, ns, dd		0169-4L
3971.00						0170
				90 Sh/Clst: gy blk to dsk y brn, mic		0170-2L
				10 Sh/Clst: gn gy, drk gy		0170-3L
				tr S/Sst : w to lt gy, l		0170-1L
				tr Cont : prp, ns, dd		0170-4L
3977.00						0171
	1.81			80 Sh/Clst: gy blk to dsk y brn, mic		0171-2L
				20 Sh/Clst: gn gy, drk gy		0171-3L
				tr S/Sst : w to lt gy, l		0171-1L
				tr Cont : prp, ns, dd		0171-4L
3983.00						0172
				70 Sh/Clst: gy blk to dsk y brn, mic		0172-2L
				15 S/Sst : w, cem		0172-1L
				15 Sh/Clst: gn gy, drk gy		0172-3L
				tr Cont : prp, ns, dd		0172-4L
3989.00						0173
				50 Sh/Clst: dsk y brn, wx		0173-4L
				20 S/Sst : w, cem		0173-1L
				20 Sh/Clst: gy blk to dsk y brn, mic		0173-2L
				10 Sh/Clst: gn gy, drk gy		0173-3L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3990.90	ccp		Brnt		Middle Jurassic	0251	
	0.08	100	S/Sst	:	w to lt gy, calc, cem	0251-1L	
3995.00						0174	
	cvd	30	Sh/Clst:		gy blk to dsk y brn, mic	0174-2L	
	cvd	30	Sh/Clst:		drk gy	0174-3L	
	cvd	30	Sh/Clst:		dsk y brn, wx	0174-4L	
		10	S/Sst	:	w to lt gy, calc, cem	0174-1L	
3996.79	ccp					0252	
	0.03	100	S/Sst	:	w to lt gy, calc, cem	0252-1L	
4001.00						0175	
	cvd	50	Sh/Clst:		gy blk to dsk y brn, mic	0175-2L	
	cvd	30	Sh/Clst:		drk gy	0175-3L	
		10	S/Sst	:	w to lt gy, calc, cem	0175-1L	
	cvd	10	Sh/Clst:		dsk y brn, wx	0175-4L	
4001.30	ccp					0253	
	0.14	100	S/Sst	:	w to lt gy, calc, mic, cem	0253-1L	
4006.50	ccp					0254	
	0.24	100	S/Sst	:	w to lt gy, cly, cem	0254-1L	
4007.00						0176	
	cvd	40	Sh/Clst:		gy blk to dsk y brn, mic	0176-2L	
	cvd	30	Sh/Clst:		drk gy	0176-3L	
		10	S/Sst	:	w to lt gy, cly, cem	0176-1L	
	cvd	10	Sh/Clst:		dsk y brn, wx	0176-4L	
		10	Cont	:	Coal-ad, tar-ad	0176-5L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4013.00						0177
	cvd		30	Sh/Clst: gy blk to dsk y brn, mic		0177-2L
	cvd		30	Sh/Clst: drk gy		0177-3L
			20	S/Sst : w to lt gy, cly, cem		0177-1L
	cvd		10	Sh/Clst: dsk y brn, wx		0177-4L
			10	Cont : Coal-ad, tar-ad		0177-5L
4019.00						0178
			30	Sh/Clst: gy blk to dsk y brn, mic		0178-2L
			30	Sh/Clst: drk gy		0178-3L
		0.10	20	S/Sst : w to lt gy, cly, cem		0178-1L
			10	Sh/Clst: dsk y brn, wx		0178-4L
			10	Cont : Coal-ad, tar-ad		0178-5L
4025.00						0179
			40	Sh/Clst: drk gy		0179-3L
			35	Sh/Clst: gy blk to dsk y brn, mic		0179-2L
			10	S/Sst : w to lt gy, cly, cem		0179-1L
			10	Sh/Clst: dsk y brn, wx		0179-4L
			5	Cont : Coal-ad, tar-ad		0179-5L
4031.00						0180
		0.56	40	Sh/Clst: drk gy		0180-3L
			35	Sh/Clst: gy blk to dsk y brn, mic		0180-2L
			10	S/Sst : w to lt gy, cly, cem		0180-1L
			10	Sh/Clst: dsk y brn, wx		0180-4L
			5	Cont : Coal-ad, tar-ad		0180-5L
4037.00						0181
			40	Sh/Clst: drk gy		0181-3L
			30	Sh/Clst: gy blk to dsk y brn, mic		0181-2L
			15	Sh/Clst: dsk y brn, wx		0181-4L
			10	S/Sst : w to lt gy, cly, cem		0181-1L
			5	Cont : Coal-ad, tar-ad		0181-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4043.00						0182
				30 S/Sst : w to lt gy		0182-1L
				30 Sh/Clst: gy blk to dsk y brn, mic		0182-2L
				30 Sh/Clst: drk gy		0182-3L
				10 Sh/Clst: dsk y brn, wx		0182-4L
				tr Cont : Coal-ad, tar-ad		0182-5L
4049.00						0183
				45 Sh/Clst: gy blk to dsk y brn, mic		0183-2L
				30 Sh/Clst: drk gy		0183-3L
				20 Sh/Clst: dsk y brn, wx		0183-4L
				5 S/Sst : w to lt gy		0183-1L
				tr Cont : Coal-ad, tar-ad		0183-5L
4055.00						0184
				50 Sh/Clst: gy blk to dsk y brn, mic		0184-2L
				25 Sh/Clst: dsk y brn, wx		0184-4L
				20 Sh/Clst: drk gy		0184-3L
				5 S/Sst : w to lt gy		0184-1L
				tr Cont : Coal-ad, tar-ad		0184-5L
4061.00						0185
	2.02			50 Sh/Clst: gy blk to dsk y brn, mic		0185-2L
				20 Sh/Clst: drk gy		0185-3L
				20 Sh/Clst: dsk y brn, wx		0185-4L
				10 S/Sst : w to lt gy		0185-1L
				tr Cont : Coal-ad, tar-ad		0185-5L
4067.00						0186
				50 Sh/Clst: gy blk to dsk y brn, mic		0186-2L
				30 S/Sst : w to lt gy, cem		0186-1L
				10 Sh/Clst: drk gy		0186-3L
				10 Sh/Clst: dsk y brn, wx		0186-4L
				tr Cont : Coal-ad, tar-ad		0186-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4073.00						0187
				30 S/Sst : w to lt gy, calc, cem		0187-1L
				30 Sh/Clst: gy blk to dsk y brn, mic		0187-2L
				30 Sh/Clst: drk gy		0187-3L
				10 Sh/Clst: dsk y brn, wx		0187-4L
				tr Cont : Coal-ad, tar-ad		0187-5L
4079.00						0188
				35 S/Sst : w to lt gy, calc, cem		0188-1L
				35 Sh/Clst: drk gy		0188-3L
				30 Sh/Clst: gy blk to dsk y brn, mic		0188-2L
				tr Sh/Clst: dsk y brn, wx		0188-4L
				tr Cont : Coal-ad, tar-ad		0188-5L
4085.00						0189
				30 S/Sst : w to lt gy, calc, cem		0189-1L
				30 Sh/Clst: gy blk to dsk y brn, mic		0189-2L
				30 Sh/Clst: drk gy		0189-3L
				10 Sh/Clst: dsk y brn, wx		0189-4L
				tr Cont : Coal-ad		0189-5L
4091.00						0190
				40 Sh/Clst: drk gy		0190-3L
				30 Sh/Clst: gy blk to dsk y brn, mic		0190-2L
				20 S/Sst : w to lt gy, calc, cem		0190-1L
				10 Sh/Clst: dsk y brn, wx		0190-4L
				tr Cont : Coal-ad, tar-ad		0190-5L
4097.00						0191
				35 Sh/Clst: gy blk to dsk y brn, mic		0191-2L
				35 Sh/Clst: drk gy		0191-3L
				20 S/Sst : w to lt gy, calc, cem		0191-1L
				10 Sh/Clst: dsk y brn, wx		0191-4L
				tr Cont : Coal-ad, tar-ad		0191-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4103.00						0192
				30 Sh/Clst: gy blk to dsk y brn, mic		0192-2L
				30 Sh/Clst: drk gy		0192-3L
				20 S/Sst : w to lt gy, calc, cem		0192-1L
				10 Sh/Clst: dsk y brn, wx		0192-4L
				10 Cont : Coal-ad		0192-5L
				tr Coal : blk		0192-6L
4109.00						0193
				30 S/Sst : w to lt gy, calc, cem		0193-1L
				30 Sh/Clst: gy blk to dsk y brn, mic		0193-2L
				20 Sh/Clst: drk gy		0193-3L
				10 Sh/Clst: dsk y brn, wx		0193-4L
				10 Cont : Coal-ad		0193-5L
				tr Coal : blk		0193-6L
4115.00						0194
				40 S/Sst : w to lt gy, calc, cem		0194-1L
				30 Sh/Clst: gy blk to dsk y brn, mic		0194-2L
				15 Sh/Clst: drk gy		0194-3L
				10 Sh/Clst: dsk y brn, wx		0194-4L
				5 Cont : Coal-ad		0194-5L
				tr Coal : blk		0194-6L
4124.00						0195
				60 Sh/Clst: dsk y brn, mic		0195-2L
				20 S/Sst : w to lt gy, calc, cem		0195-1L
				10 Sh/Clst: drk gy		0195-3L
				10 Sh/Clst: dsk y brn, wx		0195-4L
				tr Cont : Coal-ad		0195-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4130.00						0196
				60 Sh/Clst: dsk y brn, mic		0196-2L
				20 Sh/Clst: drk gy		0196-3L
				10 S/Sst : w to lt gy, calc, cem		0196-1L
				10 Sh/Clst: dsk y brn, wx		0196-4L
				tr Cont : Coal-ad		0196-5L
4136.00						0197
	1.57			90 Sltst : dsk y brn, mic		0197-2L
				5 S/Sst : w to lt gy, calc, cem		0197-1L
				5 Sh/Clst: dsk y brn		0197-3L
				tr Cont : st, Coal-ad, prp, fib		0197-4L
4142.00						0198
				95 Sltst : dsk y brn, mic		0198-2L
				5 Sh/Clst: brn gy to dsk y brn, wx		0198-3L
				tr S/Sst : w to lt gy, calc, cem		0198-1L
				tr Cont : Coal-ad		0198-4L
4148.00						0199
				90 Sltst : brn gy to dsk y brn, s, mic		0199-2L
				10 Sh/Clst: brn gy to dsk y brn, wx		0199-3L
				tr S/Sst : w to lt gy, calc, cem		0199-1L
				tr Cont : Coal-ad		0199-4L
				tr Sh/Clst: drk gy		0199-5L
4154.00						0200
				95 Sltst : brn gy to dsk y brn, s, mic		0200-2L
				5 Sh/Clst: brn gy to dsk y brn, wx		0200-3L
				tr S/Sst : w to lt gy, calc, cem		0200-1L
				tr Cont : Coal-ad		0200-4L
				tr Sh/Clst: drk gy		0200-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4160.00						0201
				85 Sltst : brn gy to dsk y brn, s, mic		0201-2L
				10 Sh/Clst: m gy to drk gy		0201-5L
				5 Sh/Clst: brn gy to dsk y brn, wx		0201-3L
				tr S/Sst : w to lt gy, calc, cem		0201-1L
				tr Cont : Coal-ad, prp, tar-ad		0201-4L
4166.00						0202
				75 Sltst : brn gy to dsk y brn, s, mic		0202-2L
				15 Sh/Clst: m gy to drk gy		0202-5L
				10 Sh/Clst: brn gy to dsk y brn, wx		0202-3L
				tr S/Sst : w to lt gy, calc, cem		0202-1L
				tr Cont : Coal-ad, fib		0202-4L
4172.00						0203
				80 Sltst : brn gy to dsk y brn, s, mic		0203-2L
				10 Sh/Clst: brn gy to dsk y brn, wx		0203-3L
				10 Sh/Clst: m gy to drk gy		0203-5L
				tr S/Sst : w to lt gy, calc, cem		0203-1L
				tr Cont : Coal-ad, prp, fib		0203-4L
4178.00						0204
	1.54			85 Sltst : brn gy to dsk y brn, s, mic		0204-2L
				5 S/Sst : w to lt gy, l		0204-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0204-3L
				5 Sh/Clst: m gy to drk gy		0204-5L
				tr Cont : Coal-ad, prp, fib		0204-4L
4184.00						0205
				80 Sltst : brn gy to dsk y brn, s, mic		0205-2L
				10 Sh/Clst: m gy to drk gy		0205-5L
				5 S/Sst : w to lt gy, l		0205-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0205-3L
				tr Cont : Coal-ad, prp, fib		0205-4L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4190.00						0206
				65 Sltst : brn gy to dsk y brn, s, mic		0206-2L
				20 Cont : Coal-ad, prp, fib, tar-ad		0206-4L
				5 S/Sst : w to lt gy, l		0206-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0206-3L
				5 Sh/Clst: m gy to drk gy		0206-5L
4199.00						0207
				40 Sltst : brn gy to dsk y brn, s, mic		0207-2L
				35 Cont : Coal-ad, prp, fib, tar-ad		0207-4L
				10 Sh/Clst: brn gy to dsk y brn, wx		0207-3L
				10 Sh/Clst: m gy to drk gy		0207-5L
				5 S/Sst : w to lt gy, l		0207-1L
4208.00						0208
				55 Cont : Coal-ad, prp, fib, tar-ad		0208-4L
				30 Sltst : brn gy to dsk y brn, s, mic		0208-2L
				5 S/Sst : w to lt gy, l		0208-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0208-3L
				5 Sh/Clst: m gy to drk gy		0208-5L
4214.00						0209
	1.29			85 Sltst : brn gy to dsk y brn, s, mic		0209-2L
				5 Sh/Clst: brn gy to dsk y brn, wx		0209-3L
				5 Cont : Coal-ad, prp, fib, tar-ad		0209-4L
				5 Sh/Clst: m gy to drk gy		0209-5L
				tr S/Sst : w to lt gy, l		0209-1L
4223.00						0210
				90 Sltst : brn gy to dsk y brn, s, mic		0210-2L
				5 Sh/Clst: brn gy to dsk y brn, wx		0210-3L
				5 Sh/Clst: m gy to drk gy		0210-5L
				tr S/Sst : w to lt gy, l		0210-1L
				tr Cont : Coal-ad, prp, fib, tar-ad		0210-4L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4238.00						0211
	0.33			55 Sltst : brn gy to dsk y brn, s, mic		0211-2L
				30 S/Sst : w to lt gy, calc, cem		0211-1L
				10 Sh/Clst: m gy to drk gy		0211-5L
				5 Sh/Clst: brn gy to dsk y brn, wx		0211-3L
				tr Cont : Coal-ad, prp, fib		0211-4L
4244.00						0212
				65 Sltst : brn gy to dsk y brn, s, mic		0212-2L
				20 S/Sst : w to lt gy, l		0212-1L
				10 Sh/Clst: brn gy to dsk y brn, wx		0212-3L
				5 Sh/Clst: m gy to drk gy		0212-5L
				tr Cont : Coal-ad, prp, fib		0212-4L
4250.00						0213
	1.45			75 Sltst : brn gy to dsk y brn, s, mic		0213-2L
				20 Sh/Clst: brn gy to dsk y brn, wx		0213-3L
				5 Sh/Clst: m gy to drk gy		0213-5L
				tr S/Sst : w to lt gy, l		0213-1L
				tr Cont : Coal-ad, prp, fib		0213-4L
4256.00						0214
				70 Sltst : brn gy to dsk y brn, mic		0214-2L
				20 Sh/Clst: brn gy to dsk y brn, wx		0214-3L
				10 S/Sst : w to lt gy, l		0214-1L
				tr Cont : Coal-ad, prp, fib		0214-4L
				tr Sh/Clst: m gy to drk gy		0214-5L
4262.00						0215
	1.65			70 Sltst : brn gy to dsk y brn, mic		0215-2L
				15 S/Sst : w to lt gy, l		0215-1L
				10 Sh/Clst: brn gy to dsk y brn, wx		0215-3L
				5 Sh/Clst: m gy to drk gy		0215-5L
				tr Cont : Coal-ad, prp, fib		0215-4L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4268.00						0216
				50 Sltst : brn gy to dsk y brn, mic		0216-2L
				20 S/Sst : w to lt gy, l		0216-1L
				15 Cont : Coal-ad, prp, fib		0216-4L
				10 Sh/Clst: brn gy to dsk y brn, wx		0216-3L
				5 Sh/Clst: m gy to drk gy		0216-5L
4274.00						0217
	1.55			70 Sltst : brn gy to dsk y brn, mic		0217-2L
				15 Sh/Clst: m gy to drk gy		0217-5L
				10 S/Sst : w to lt gy, l		0217-1L
				5 Cont : Coal-ad, prp, fib		0217-4L
				tr Sh/Clst: brn gy to dsk y brn, wx		0217-3L
4280.00						0218
				65 S/Sst : w to lt gy, l		0218-1L
				20 Sltst : brn gy to dsk y brn, mic		0218-2L
				10 Cont : Coal-ad, prp, fib		0218-4L
				5 Sh/Clst: brn gy to dsk y brn, wx		0218-3L
				tr Sh/Clst: m gy to drk gy		0218-5L
4289.00						0219
	0.20			50 S/Sst : w to lt gy, calc, cem, l		0219-1L
				40 Sltst : brn gy to dsk y brn, mic		0219-2L
				5 Cont : Coal-ad, prp, fib		0219-4L
				5 Sh/Clst: m gy to drk gy		0219-5L
				tr Sh/Clst: brn gy to dsk y brn, wx		0219-3L
4295.00						0220
				50 Sltst : brn gy to dsk y brn, mic		0220-2L
				35 S/Sst : w to lt gy, l		0220-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0220-3L
				5 Cont : Coal-ad, prp, fib		0220-4L
				5 Sh/Clst: m gy to drk gy		0220-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4307.00						0221
				85 Sltst : brn gy to dsk y brn, mic		0221-2L
				5 S/Sst : w to lt gy, l		0221-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0221-3L
				5 Sh/Clst: m gy to drk gy		0221-5L
				tr Cont : Coal-ad, prp, fib		0221-4L
4313.00						0222
	1.96			75 Sltst : brn gy to dsk y brn, mic		0222-2L
				10 Ca : brn gy		0222-6L
				5 S/Sst : w to lt gy, l		0222-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0222-3L
				5 Sh/Clst: m gy to drk gy		0222-5L
				tr Cont : Coal-ad, prp, fib		0222-4L
4319.00						0223
				55 Sh/Clst: m gy to drk gy		0223-5L
				45 Sltst : brn gy to dsk y brn, mic		0223-2L
				tr S/Sst : w to lt gy, l		0223-1L
				tr Sh/Clst: brn gy to dsk y brn, wx		0223-3L
				tr Cont : Coal-ad, prp, fib		0223-4L
				tr Ca : brn gy		0223-6L
4325.00						0224
	0.54			70 Sh/Clst: m gy to drk gy		0224-5L
				30 Sltst : brn gy to dsk y brn, mic		0224-2L
				tr S/Sst : w to lt gy, l		0224-1L
				tr Sh/Clst: brn gy to dsk y brn, wx		0224-3L
				tr Cont : Coal-ad, prp, fib		0224-4L
				tr Ca : brn gy		0224-6L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4331.00						0225
				50 Sltst : brn gy to dsk y brn, mic		0225-2L
				45 Sh/Clst: m gy to drk gy		0225-5L
				5 Sh/Clst: brn gy to dsk y brn, wx		0225-3L
				tr S/Sst : w to lt gy, l		0225-1L
				tr Cont : Coal-ad, prp, fib		0225-4L
				tr Ca : brn gy		0225-6L
4337.00						0226
				55 Sltst : brn gy to dsk y brn, mic		0226-2L
				20 Cont : Coal-ad, prp, fib		0226-4L
				10 Sh/Clst: brn gy to dsk y brn, wx		0226-3L
				10 Sh/Clst: m gy to drk gy		0226-5L
				5 S/Sst : w to lt gy, l		0226-1L
				tr Ca : brn gy		0226-6L
4343.00						0227
				70 S/Sst : w to lt gy, l		0227-1L
				20 Sltst : brn gy to dsk y brn, mic		0227-2L
				5 Sh/Clst: brn gy to dsk y brn, wx		0227-3L
				5 Cont : Coal-ad, prp, fib		0227-4L
				tr Sh/Clst: m gy to drk gy		0227-5L
				tr Ca : brn gy		0227-6L
4349.00						0228
				100 S/Sst : w, l		0228-1L
				tr Sltst : brn gy to dsk y brn, mic		0228-2L
				tr Sh/Clst: brn gy to dsk y brn, wx		0228-3L
				tr Cont : Coal-ad, prp, fib		0228-4L
				tr Sh/Clst: m gy to drk gy		0228-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4355.00						0229	
		100	S/Sst	: w, l		0229-1L	
		tr	Sltst	: brn gy to dsk y brn, mic		0229-2L	
		tr	Sh/Clst:	brn gy to dsk y brn, wx		0229-3L	
		tr	Cont	: Coal-ad, prp, fib		0229-4L	
		tr	Sh/Clst:	m gy to drk gy		0229-5L	
4358.10	ccp					0255	
	0.01	100	S/Sst	: w, crs, cem, kln		0255-1L	
4361.00						0230	
		80	S/Sst	: w, crs, cem, l		0230-1L	
		10	Sltst	: brn gy to dsk y brn, mic		0230-2L	
		5	Sh/Clst:	brn gy to dsk y brn, wx		0230-3L	
		5	Sh/Clst:	m gy to drk gy		0230-5L	
		tr	Cont	: st, Coal-ad, prp, fib		0230-4L	
4363.55	ccp					0256	
	0.08	100	S/Sst	: lt gy, crs, cem		0256-1L	
4365.50	ccp					0257	
	17.72	100	Coal	: blk		0257-1L	
4367.00						0231	
		80	S/Sst	: w, l		0231-1L	
		15	Sltst	: brn gy to dsk y brn, mic		0231-2L	
		5	Sh/Clst:	m gy to drk gy		0231-5L	
		tr	Sh/Clst:	brn gy to dsk y brn, wx		0231-3L	
		tr	Cont	: st, Coal-ad, prp, fib		0231-4L	

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4373.00						0232
	0.64			80 Sh/Clst: lt brn gy to m gy to drk gy 15 Sltst : brn gy to dsk y brn, mic 5 S/Sst : w, l tr Cont : Coal-ad		0232-4L 0232-2L 0232-1L 0232-3L
4379.00						0233
				60 S/Sst : w, l 25 Sh/Clst: lt brn gy to m gy to drk gy 15 Sltst : brn gy to dsk y brn, mic tr Cont : Coal-ad, prp		0233-1L 0233-4L 0233-2L 0233-3L
4385.00						0234
	0.09			60 S/Sst : w, crs, cem, l, kln 20 Sltst : brn gy to dsk y brn, mic 20 Sh/Clst: lt brn gy to m gy to drk gy tr Cont : Coal-ad, prp		0234-1L 0234-2L 0234-4L 0234-3L
4391.00						0235
				50 S/Sst : w, crs, cem, l, kln 25 Sh/Clst: gy red, slt 15 Sltst : brn gy to dsk y brn, mic 10 Sh/Clst: lt y gn to brn gy to m gy tr Cont : Coal-ad, prp		0235-1L 0235-5L 0235-2L 0235-4L 0235-3L
4397.00						0236
	0.47			50 S/Sst : w, crs, l 40 Sh/Clst: lt y gn to brn gy to m gy 10 Sltst : brn gy to dsk y brn, mic tr Cont : Coal-ad, prp tr Sh/Clst: gy red, slt		0236-1L 0236-4L 0236-2L 0236-3L 0236-5L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4403.00						0237
	0.13			40 Sh/Clst: gy red, slt		0237-5L
				30 S/Sst : w, crs, l		0237-1L
				15 Sltst : brn gy to dsk y brn, mic		0237-2L
				15 Sh/Clst: lt y gn to brn gy to m gy		0237-4L
				tr Cont : Coal-ad, prp		0237-3L
4409.00						0238
				75 S/Sst : w, l		0238-1L
				15 Sh/Clst: gy red, slt		0238-5L
				5 Sltst : brn gy to dsk y brn, mic		0238-2L
				5 Sh/Clst: lt y gn to brn gy to m gy		0238-4L
				tr Cont : Coal-ad, prp		0238-3L
4418.00						0239
				80 S/Sst : w, l		0239-1L
				10 Sh/Clst: gy red, slt		0239-5L
				5 Sltst : brn gy to dsk y brn, mic		0239-2L
				5 Sh/Clst: lt y gn to brn gy to m gy		0239-4L
				tr Cont : Coal-ad, prp		0239-3L
4424.00						0240
				45 Sh/Clst: gy red, slt		0240-5L
				40 S/Sst : w, l		0240-1L
				10 Sltst : brn gy to dsk y brn, mic		0240-2L
				5 Cont : Coal-ad, prp		0240-3L
				tr Sh/Clst: lt y gn to brn gy to m gy		0240-4L
4430.00						0241
				65 Sh/Clst: gy red, lt y gn, m gy		0241-4L
				25 S/Sst : w, l		0241-1L
				10 Sltst : brn gy to dsk y brn, mic		0241-2L
				tr Cont : Coal-ad, prp		0241-3L

Table 1 : Lithology description for well NOCS 34/4-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4436.00						0242
				85 Sh/Clst: gy red, lt y gn, m gy		0242-4L
				10 S/Sst : w, l		0242-1L
				5 Sltst : brn gy to dsk y brn, mic		0242-2L
				tr Cont : Coal-ad, prp		0242-3L
4442.00						0243
				50 Sh/Clst: gy red, lt y gn, m gy, calc		0243-4L
				45 S/Sst : w, calc, cem, l		0243-1L
				5 Sltst : brn gy to dsk y brn, mic		0243-2L
				tr Cont : Coal-ad, prp		0243-3L
4448.00						0244
				65 Sh/Clst: gy red, lt y gn, m gy, calc		0244-4L
				35 S/Sst : w, calc, cem, l		0244-1L
				tr Sltst : brn gy to dsk y brn, mic		0244-2L
				tr Cont : Coal-ad, prp		0244-3L
4454.00						0245
				80 Sh/Clst: gy red, lt y gn, m gy, calc		0245-4L
				15 S/Sst : w, calc, cem, l		0245-1L
				5 Sltst : brn gy to dsk y brn, mic		0245-2L
				tr Cont : Coal-ad, prp		0245-3L
4460.00						0246
	0.38			85 Sh/Clst: gy red, lt y gn, m gy, calc		0246-4L
				15 S/Sst : w, calc, cem, l		0246-1L
				tr Sltst : brn gy to dsk y brn, mic		0246-2L
				tr Cont : Coal-ad, prp		0246-3L

Table 2 : Rock-Eval table for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2620.00	com	bulk	0.03	0.12	0.27	0.44	0.14	86	193	0.1	0.20	316	0258-0B
2740.00	cut	Sh/Clst: drk gy	0.07	0.18	1.20	0.15	0.78	23	154	0.3	0.28	337	0072-1L
2930.00	cut	Sh/Clst: m gy to drk gy	0.09	0.33	1.18	0.28	0.96	34	123	0.4	0.21	382	0078-1L
3330.00	cut	Sh/Clst: m gy to drk gy	0.07	0.14	0.47	0.30	0.68	21	69	0.2	0.33	309	0091-1L
3482.00	cut	Sh/Clst: drk gy	0.05	0.12	0.25	0.48	0.63	19	40	0.2	0.29	-	0096-1L
3533.00	cut	Sh/Clst: dsk y brn to ol blk	2.20	21.82	0.69	31.62	6.43	339	11	24.0	0.09	434	0099-4L
3539.00	cut	Sh/Clst: dsk y brn to ol blk	3.49	24.97	3.90	6.40	5.88	425	66	28.5	0.12	435	0100-4L
3545.00	cut	Sh/Clst: drk gy	0.05	0.16	0.10	1.60	0.65	25	15	0.2	0.24	434	0101-1L
3567.50	ccp	bulk	0.68	4.94	0.22	22.45	1.94	255	11	5.6	0.12	433	0247-0B
3573.50	ccp	S/Sst : w to lt gy	0.10	0.17	0.27	0.63	0.15	113	180	0.3	0.37	433	0248-2L
3579.40	ccp	Sh/Clst: drk gy	0.83	8.82	0.43	20.51	3.55	248	12	9.6	0.09	431	0249-1L
3584.65	ccp	Sh/Clst: drk gy	0.33	7.33	0.28	26.18	2.13	344	13	7.7	0.04	434	0250-1L
3599.00	cut	Sh/Clst: drk gy	0.12	0.13	0.01	13.00	0.68	19	1	0.3	0.48	389	0110-1L
3617.00	cut	S/Sst : w to lt gy	0.07	0.10	0.01	10.00	0.10	100	10	0.2	0.41	429	0113-3L
3653.00	com	bulk	1.89	22.22	0.77	28.86	6.99	318	11	24.1	0.08	436	0259-0B

Table 2 : Rock-Eval table for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3665.00	cut	Sltst : gy blk	1.78	14.96	1.17	12.79	4.03	371	29	16.7	0.11	435	0121-4L
3695.00	cut	Sh/Clst: drk gy	0.09	0.12	0.01	12.00	0.67	18	1	0.2	0.43	431	0126-1L
3719.00	cut	S/Sst : w to lt gy	0.02	0.01	0.07	0.14	0.04	25	175	-	0.67	416	0130-3L
3749.00	cut	S/Sst : w to lt gy	-	-	0.16	-	0.04	-	400	-	-	411	0135-2L
3767.00	cut	Sh/Clst: drk gy	0.05	0.06	0.18	0.33	0.54	11	33	0.1	0.45	364	0138-1L
3791.00	cut	Sh/Clst: drk gy	0.07	0.09	0.19	0.47	0.61	15	31	0.2	0.44	432	0141-1L
3809.00	cut	Sh/Clst: drk gy	0.07	0.08	0.22	0.36	0.60	13	37	0.2	0.47	435	0144-1L
3839.00	cut	S/Sst : w to lt gy	0.04	0.05	0.14	0.36	0.11	45	127	0.1	0.44	429	0149-2L
3851.00	cut	Sh/Clst: drk y brn to dsk y brn	0.14	0.99	0.26	3.81	0.91	109	29	1.1	0.12	444	0151-4L
3863.00	cut	Sh/Clst: gy blk to dsk y brn	0.19	1.48	0.19	7.79	1.17	126	16	1.7	0.11	450	0153-5L
3875.00	cut	Sh/Clst: gy blk to dsk y brn	0.19	0.70	0.16	4.38	0.96	73	17	0.9	0.21	442	0155-4L
3911.00	cut	Sh/Clst: gy blk to dsk y brn	0.28	2.00	0.15	13.33	1.30	154	12	2.3	0.12	446	0161-2L
3953.00	cut	Sh/Clst: gy blk to dsk y brn	0.51	2.92	1.02	2.86	1.39	210	73	3.4	0.15	448	0167-2L
3977.00	cut	Sh/Clst: gy blk to dsk y brn	0.28	3.23	0.42	7.69	1.81	178	23	3.5	0.08	454	0171-2L
3989.00	com	bulk	0.02	0.02	0.17	0.12	0.10	20	170	-	0.50	433	0260-0B

Table 2 : Rock-Eval table for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3990.90	ccp	S/Sst : w to lt gy	0.04	0.03	0.37	0.08	0.08	38	463	0.1	0.57	349	0251-1L
3996.79	ccp	S/Sst : w to lt gy	0.02	0.01	0.16	0.06	0.03	33	533	-	0.67	287	0252-1L
4001.30	ccp	S/Sst : w to lt gy	0.05	0.05	0.24	0.21	0.14	36	171	0.1	0.50	300	0253-1L
4006.50	ccp	S/Sst : w to lt gy	0.07	0.12	0.16	0.75	0.24	50	67	0.2	0.37	444	0254-1L
4019.00	cut	S/Sst : w to lt gy	0.03	0.03	0.16	0.19	0.10	30	160	0.1	0.50	392	0178-1L
4031.00	cut	Sh/Clst: drk gy	0.06	0.06	0.17	0.35	0.56	11	30	0.1	0.50	427	0180-3L
4061.00	cut	Sh/Clst: gy blk to dsk y brn	0.33	3.01	0.28	10.75	2.02	149	14	3.3	0.10	452	0185-2L
4085.00	com	bulk	0.10	0.12	0.19	0.63	0.22	55	86	0.2	0.45	441	0261-0B
4103.00	com	bulk	0.14	0.19	0.26	0.73	0.14	136	186	0.3	0.42	387	0262-0B
4124.00	com	bulk	0.03	0.01	0.26	0.04	0.09	11	289	-	0.75	434	0263-0B
4136.00	cut	Sltst : dsk y brn	0.74	4.00	0.33	12.12	1.57	255	21	4.7	0.16	448	0197-2L
4178.00	cut	Sltst : brn gy to dsk y brn	0.34	3.70	0.30	12.33	1.54	240	19	4.0	0.08	447	0204-2L
4214.00	cut	Sltst : brn gy to dsk y brn	0.30	2.81	0.30	9.37	1.29	218	23	3.1	0.10	448	0209-2L
4238.00	cut	S/Sst : w to lt gy	0.09	0.22	0.18	1.22	0.33	67	55	0.3	0.29	446	0211-1L
4250.00	cut	Sltst : brn gy to dsk y brn	0.30	2.96	0.21	14.10	1.45	204	14	3.3	0.09	448	0213-2L

Table 2 : Rock-Eval table for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4262.00	cut	Sltst : brn gy to dsk y brn	0.36	3.18	0.30	10.60	1.65	193	18	3.5	0.10	446	0215-2L
4274.00	cut	Sltst : brn gy to dsk y brn	0.41	4.29	0.32	13.41	1.55	277	21	4.7	0.09	446	0217-2L
4289.00	cut	S/Sst : w to lt gy	0.07	0.08	0.17	0.47	0.20	40	85	0.2	0.47	451	0219-1L
4313.00	cut	Sltst : brn gy to dsk y brn	0.54	5.20	0.37	14.05	1.96	265	19	5.7	0.09	449	0222-2L
4325.00	cut	Sh/Clst: m gy to drk gy	0.14	0.12	0.20	0.60	0.54	22	37	0.3	0.54	435	0224-5L
4358.10	ccp	S/Sst : w	0.01	0.02	0.03	0.67	0.01	200	300	-	0.33	451	0255-1L
4363.55	ccp	S/Sst : lt gy	0.02	0.03	0.07	0.43	0.08	38	88	0.1	0.40	374	0256-1L
4365.50	ccp	Coal : blk	4.06	30.46	2.32	13.13	17.72	172	13	34.5	0.12	482	0257-1L
4373.00	cut	Sh/Clst: lt brn gy to m gy to drk gy	0.07	0.13	0.18	0.72	0.64	20	28	0.2	0.35	465	0232-4L
4385.00	cut	S/Sst : w	0.01	0.01	0.06	0.17	0.09	11	67	-	0.50	432	0234-1L
4397.00	cut	Sh/Clst: lt y gn to brn gy to m gy	0.12	0.11	0.15	0.73	0.47	23	32	0.2	0.52	409	0236-4L
4403.00	cut	Sh/Clst: gy red	0.03	0.01	0.16	0.06	0.13	8	123	-	0.75	284	0237-5L
4448.00	com	bulk	0.01	-	0.16	-	0.08	-	200	-	1.00	284	0264-0B
4460.00	cut	Sh/Clst: gy red, lt y gn, m gy	0.16	0.20	0.22	0.91	0.38	53	58	0.4	0.44	348	0246-4L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 34/4-3

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Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3539.00	cut	Sh/Clst: dsk y brn to ol blk	8.65	10.86	31.29	49.20	24.97	0100-4L
3567.50	ccp	bulk	3.61	12.81	33.70	49.88	4.94	0247-0B
3579.40	ccp	Sh/Clst: drk gy	2.61	10.50	33.47	53.42	8.82	0249-1L
3584.65	ccp	Sh/Clst: drk gy	2.98	13.86	30.36	52.80	7.33	0250-1L
3653.00	com	bulk	3.59	13.01	28.83	54.58	22.22	0259-0B
3665.00	cut	Sltst : gy blk	3.86	11.02	31.78	53.33	14.96	0121-4L
3863.00	cut	Sh/Clst: gy blk to dsk y brn	4.61	15.49	35.40	44.50	1.48	0153-5L
3953.00	cut	Sh/Clst: gy blk to dsk y brn	4.52	17.98	34.33	43.18	2.92	0167-2L
4006.50	ccp	S/Sst : w to lt gy	14.99	33.39	41.94	9.68	0.12	0254-1L
4061.00	cut	Sh/Clst: gy blk to dsk y brn	8.76	12.20	34.68	44.35	3.01	0185-2L
4136.00	cut	Sltst : dsk y brn	5.99	11.66	32.99	49.36	4.00	0197-2L
4178.00	cut	Sltst : brn gy to dsk y brn	3.68	13.97	34.84	47.51	3.70	0204-2L
4250.00	cut	Sltst : brn gy to dsk y brn	4.60	16.01	34.53	44.85	2.96	0213-2L
4274.00	cut	Sltst : brn gy to dsk y brn	3.91	14.42	34.02	47.65	4.29	0217-2L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
4313.00	cut	Sltst : brn gy to dsk y brn	3.89	13.89	33.86	48.36	5.20	0222-2L
4365.50	ccp	Coal : blk	21.93	13.01	26.63	38.44	30.46	0257-1L

Table 4 a: Weight of EOM and Chromatographic Fraction for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
3539.00	com	Composite sample - see table 4 e	0.6	3.7	1.5	0.8	0.6	0.8	2.3	1.4	5.72	0265-0B
3584.65	com	Composite sample - see table 4 e	9.6	18.4	5.7	4.5	1.9	6.3	10.2	8.2	3.29	0266-0B
3977.00	com	Composite sample - see table 4 e	4.8	8.4	3.9	1.8	0.9	1.8	5.7	2.7	1.91	0267-0B
4214.00	com	Composite sample - see table 4 e	4.8	7.8	3.3	2.4	0.7	1.4	5.7	2.1	1.95	0268-0B
4274.00	com	Composite sample - see table 4 e	2.3	3.0	0.8	0.8	0.4	1.0	1.6	1.4	2.10	0269-0B
4313.00	cut	Sltst : brn gy to dsk y brn	1.0	1.9	0.8	0.5	0.3	0.3	1.3	0.6	2.22	0222-2L

Table 4 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3539.00	com	Composite sample - see table 4 e	5967	2419	1290	967	1290	3709	2258	0265-0B
3584.65	com	Composite sample - see table 4 e	1910	591	467	197	654	1059	851	0266-0B
3977.00	com	Composite sample - see table 4 e	1768	821	378	189	378	1200	568	0267-0B
4214.00	com	Composite sample - see table 4 e	1638	693	504	147	294	1197	441	0268-0B
4274.00	com	Composite sample - see table 4 e	1321	352	352	176	440	704	616	0269-0B
4313.00	cut	Sltst : brn gy to dsk y brn	1809	761	476	285	285	1238	571	0222-2L

Table 4 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3539.00	com	Composite sample - see table 4 e	104.33	42.30	22.56	16.92	22.56	64.85	39.48	0265-0B
3584.65	com	Composite sample - see table 4 e	58.08	17.99	14.20	6.00	19.88	32.19	25.88	0266-0B
3977.00	com	Composite sample - see table 4 e	92.59	42.99	19.84	9.92	19.84	62.83	29.76	0267-0B
4214.00	com	Composite sample - see table 4 e	84.03	35.55	25.86	7.54	15.08	61.41	22.62	0268-0B
4274.00	com	Composite sample - see table 4 e	62.93	16.78	16.78	8.39	20.98	33.56	29.37	0269-0B
4313.00	cut	Sltst : brn gy to dsk y brn	81.51	34.32	21.45	12.87	12.87	55.77	25.74	0222-2L

Table 4 d: Composition of material extracted from the rock (%) for well NOCS 34/4-3

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	
3539.00	com	Composite sample - see table 4 e	40.54	21.62	16.22	21.62	62.16	37.84	187.50	164.29	0265-0B
3584.65	com	Composite sample - see table 4 e	30.98	24.46	10.33	34.24	55.43	44.57	126.67	124.39	0266-0B
3977.00	com	Composite sample - see table 4 e	46.43	21.43	10.71	21.43	67.86	32.14	216.67	211.11	0267-0B
4214.00	com	Composite sample - see table 4 e	42.31	30.77	8.97	17.95	73.08	26.92	137.50	271.43	0268-0B
4274.00	com	Composite sample - see table 4 e	26.67	26.67	13.33	33.33	53.33	46.67	100.00	114.29	0269-0B
4313.00	cut	Sltst : brn gy to dsk y brn	42.11	26.32	15.79	15.79	68.42	31.58	160.00	216.67	0222-2L

Depth unit of measure: m

NOTE: Depths shown in tables 4 a to d correspond to the composite samples' lower depth.

Upper depth	Lower depth	Typ	Sample	Depth	Typ	Lithology	Sample
3533.00	3539.00	com	0265-0B is composed of:	3533.00	cut	Sh/Clst: dsk y brn to ol blk, calc	0099-4L
				3539.00	cut	Sh/Clst: dsk y brn to ol blk, calc	0100-4L
3579.40	3584.65	com	0266-0B is composed of:	3579.40	ccp	Sh/Clst: drk gy, s	0249-1L
				3584.65	ccp	Sh/Clst: drk gy, s	0250-1L
3911.00	3977.00	com	0267-0B is composed of:	3911.00	cut	Sh/Clst: gy blk to dsk y brn, mic	0161-2L
				3953.00	cut	Sh/Clst: gy blk to dsk y brn, mic	0167-2L
				3977.00	cut	Sh/Clst: gy blk to dsk y brn, mic	0171-2L
4136.00	4214.00	com	0268-0B is composed of:	4136.00	cut	Sltst : dsk y brn, mic	0197-2L
				4178.00	cut	Sltst : brn gy to dsk y brn, s, mic	0204-2L
				4214.00	cut	Sltst : brn gy to dsk y brn, s, mic	0209-2L
4262.00	4274.00	com	0269-0B is composed of:	4262.00	cut	Sltst : brn gy to dsk y brn, mic	0215-2L
				4274.00	cut	Sltst : brn gy to dsk y brn, mic	0217-2L

Table 5 : Saturated Hydrocarbon Ratios for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	<u>Pristane</u> nC17	<u>Pristane</u> Phytane	<u>Pristane + Phytane</u> nC17 + nC18	<u>Phytane</u> nC18	CPI	Sample
3539.00	com	bulk	0.93	1.43	0.85	0.76	1.00	0265-0B
3584.65	com	bulk	0.61	1.72	0.56	0.48	1.00	0266-0B
3977.00	com	bulk	0.60	2.49	0.47	0.30	0.96	0267-0B
4214.00	com	bulk	0.50	2.75	0.37	0.22	1.07	0268-0B
4274.00	com	bulk	0.53	2.84	0.37	0.21	1.17	0269-0B
4313.00	cut	Slst : brn gy to dsk y brn	0.42	2.12	0.33	0.22	1.08	0222-2L

Table 6 : Aromatic Hydrocarbon Ratios for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3539.00	com	bulk	0.32	0.86	0.06	0.70	0.54	0.58	0.72	0.17	2.33	0.31	0265-0B
3584.65	com	bulk	0.88	1.32	0.15	0.61	0.53	0.56	0.72	0.15	22.28	0.70	0266-0B
3977.00	com	bulk	0.62	1.64	0.09	0.80	0.46	0.49	0.68	0.05	-	-	0267-0B
4214.00	com	bulk	0.95	1.71	0.13	0.92	0.57	0.62	0.74	0.10	2.63	-	0268-0B
4274.00	com	bulk	0.95	1.96	0.13	0.87	0.51	0.55	0.71	0.06	1.85	-	0269-0B
4313.00	cut	Sltst : brn gy to dsk y brn	0.47	1.08	-	0.81	0.49	0.53	0.69	-	-	-	0222-2L

Table 7 : Thermal Maturity Data for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
2230.00	cut	bulk	0.40	3	0.08	3-4	-	-	0057-0B
2500.00	cut	bulk	0.54	6	0.05	3+4	-	-	0064-0B
2650.00	cut	bulk	0.57	1	0.00	3-5	-	-	0069-0B
3060.00	cut	bulk	NDP	-	-	4	-	-	0082-0B
3270.00	cut	bulk	NDP	-	-	4	-	-	0089-0B
3452.00	cut	bulk	0.64	3	0.04	5	-	-	0095-0B
3533.00	cut	Sh/Clst: dsk y brn to ol blk	-	-	-	-	5.0-5.5(??)	434	0099-4L
3579.40	ccp	bulk	0.61	6	0.05	4	-	-	0249-0B
3579.40	ccp	Sh/Clst: drk gy	-	-	-	-	4.5-5.0	431	0249-1L
3665.00	cut	Sltst : gy blk	-	-	-	-	5.0-5.5	435	0121-4L
3689.00	cut	bulk	NDP	-	-	NDP	-	-	0125-0B
3863.00	cut	Sh/Clst: gy blk to dsk y brn	-	-	-	-	5.5	450	0153-5L
3899.00	cut	bulk	0.71	7	0.02	5	-	-	0159-0B
3953.00	cut	Sh/Clst: gy blk to dsk y brn	-	-	-	-	5.5-6.0	448	0167-2L

Table 7 : Thermal Maturity Data for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
4001.00	cut bulk	0.78	13	0.02	5-6	-	-	0175-0B
4055.00	cut bulk	0.79	5	0.03	5-6	-	-	0184-0B
4061.00	cut Sh/Clst: gy blk to dsk y brn	-	-	-	-	5.5-6.0	452	0185-2L
4184.00	cut bulk	0.80	8	0.05	5	-	-	0205-0B
4214.00	cut Sltst : brn gy to dsk y brn	-	-	-	-	6.0	448	0209-2L
4250.00	cut Sltst : brn gy to dsk y brn	-	-	-	-	5.5-6.0	448	0213-2L
4274.00	cut Sltst : brn gy to dsk y brn	-	-	-	-	6.0-6.5	446	0217-2L
4313.00	cut Sltst : brn gy to dsk y brn	-	-	-	-	6.0	449	0222-2L
4319.00	cut bulk	0.84	9	0.02	5-6	-	-	0223-0B
4365.50	ccp Coal : blk	-	-	-	-	7.0-7.5(?)	482	0257-1L
4385.00	cut bulk	0.83	10	0.06	6	-	-	0234-0B

Table 8 : Visual Kerogen Composition Data for well NOCS 34/4-3

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m r e l	L i p o l	S p D e l	C u P i c l	R e s i n e	A l i g o n e	D i f f e r e n t i a l	A B I T L	I N E R T %	S u l f i d e	I n f u e n t	M e t h o d s	S c r e e n i n g	V I R %	C o l l e c t i o n	V o l u m e	A n a l y s i s	Sample	
3533.00	cut	Sh/Clst: dsk y brn to ol blk	90	**	*	*	*	**	*			10		*				TR	*			0099-4L
3579.40	ccp	Sh/Clst: drk gy	85	**		*	*	**	*	*		5	*	*				10	*	*		0249-1L
3665.00	cut	Sltst : gy blk	85	**	*	*	*	**	*	*		5		*				10	*	*		0121-4L
3863.00	cut	Sh/Clst: gy blk to dsk y brn	25		**	**		*				10	*					65	**	*		0153-5L
3953.00	cut	Sh/Clst: gy blk to dsk y brn	40		**	*		*				15	*	*				45	**	*		0167-2L
4061.00	cut	Sh/Clst: gy blk to dsk y brn	30		*	**	*	*				15	*					55	**	*		0185-2L
4214.00	cut	Sltst : brn gy to dsk y brn	40		**	*		*				10	*					50	**	*		0209-2L
4250.00	cut	Sltst : brn gy to dsk y brn	30		**	*		*				15	*					55	**	*		0213-2L
4274.00	cut	Sltst : brn gy to dsk y brn	30		**	*		**				15	*					55	**	*		0217-2L
4313.00	cut	Sltst : brn gy to dsk y brn	35		**	*		**	*			10	*					55	**	*		0222-2L
4365.50	ccp	Coal : blk	10		*	*		*				10	*					80	*	*		0257-1L

Table 9a : Tabulation of carbon isotope data for EOM/EOM - fractions or Oils for well NOCS 34/4-3

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM/Oil</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
3539.00	com	Composite sample	-	-29.52	-28.70	-29.62	-29.23	-	0265-0B
3584.65	com	Composite sample	-28.81	-27.71	-28.84	-29.17	-29.39	-	0266-0B
3977.00	com	Composite sample	-26.98	-27.32	-26.39	-26.92	-26.79	-	0267-0B
4214.00	com	Composite sample	-26.64	-27.15	-27.72	-26.65	-25.84	-	0268-0B

Table 9b : Tabulation of cv values from carbon isotope data for well NOCS 34/4-3

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
3539.00	com	Composite sample	-29.52	-28.70	-0.68	0265-0B
3584.65	com	Composite sample	-27.71	-28.84	-5.57	0266-0B
3977.00	com	Composite sample	-27.32	-26.39	-1.12	0267-0B
4214.00	com	Composite sample	-27.15	-27.72	-4.50	0268-0B

Table 10A: Variation in Triterpane Distribution (peak height) for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
3539.00	bulk	0.86	0.46	0.09		0.47	0.32	0.09	0.03	0.07	0.03	0.09	0.90	0.31	0.10	59.20	0265-0	
3584.65	bulk	1.25	0.56	0.13		0.50	0.33	0.04	0.18	0.36	0.15	0.09	0.89	0.33	0.11	59.62	0266-0	
3977.00	bulk	2.23	0.69	0.22		0.87	0.47	0.07	0.16	0.18	0.14	0.24	0.84	0.46	0.19	59.18	0267-0	
4214.00	bulk	2.40	0.71	0.22		0.76	0.43	0.08	0.15	0.19	0.13	0.40	0.86	0.43	0.16	60.47	0268-0	

Table 10B: Variation in Sterane Distribution (peak height) for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3539.00	bulk	0.66	42.81	69.85	1.26	0.73	0.32	0.23	0.54	0.75	2.03	0265-0
3584.65	bulk	0.53	41.24	67.66	1.06	0.72	0.48	0.41	0.51	0.70	1.78	0266-0
3977.00	bulk	0.38	45.94	76.86	0.69	0.78	0.22	0.18	0.62	0.85	3.07	0267-0
4214.00	bulk	0.39	45.14	77.42	0.69	0.79	0.37	0.30	0.63	0.82	3.13	0268-0

Ratio1: $a / a + j$

Ratio2: $q / q + t * 100\%$

Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$

Ratio4: $a + b + c + d / h + k + l + n$

Ratio5: $r + s / r + s + q$

Ratio6: $u + v / u + v + q + r + s + t$

Ratio7: $u + v / u + v + i + m + n + q + r + s + t$

Ratio8: $r + s / q + r + s + t$

Ratio9: q / t

Ratio10: $r + s / t$

Table 10C: Raw GCMS triterpane data (peak height) for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
3539.00	bulk	70.95	30.73	30.91	15.22	10.80	41.19	35.41	11.53	153.86	0265-0
		28.39	11.76	330.61	37.90	135.11	88.99	25.86	81.72		
		56.33	74.82	51.05	50.24	31.36	48.44	32.23			
3584.65	bulk	20.57	8.77	5.40	6.89	3.02	13.24	16.52	18.20	50.27	0266-0
		4.25	4.30	100.78	11.96	41.83	26.87	5.82	24.01		
		16.26	20.26	11.03	9.05	4.77	7.31	5.70			
3977.00	bulk	360.50	161.58	151.44	95.12	85.26	103.55	230.43	108.61	596.30	0267-0
		51.10	111.37	682.95	133.71	392.57	287.90	47.31	231.25		
		159.54	161.98	106.49	99.04	58.85	100.86	60.09			
4214.00	bulk	531.17	228.26	157.73	93.88	83.40	76.09	182.42	81.96	427.51	0268-0
		44.00	68.97	564.43	89.85	307.83	225.11	43.87	196.20		
		128.24	144.06	80.25	88.25	47.35	76.49	44.68			

Table 10D: Raw GCMS sterane data (peak height) for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
3539.00	bulk	53.06	32.58	143.74	90.29	39.55	83.72	83.72	64.92	66.60	0265-0
		122.74	55.70	75.53	71.99	44.21	5.85	45.29	62.88		
		39.95	35.53	48.06	48.06	47.46					
3584.65	bulk	31.60	18.52	28.60	15.05	3.96	17.34	17.34	11.23	24.04	0266-0
		27.72	9.38	25.80	17.39	6.50	0.00	9.69	10.97		
		17.26	10.87	13.79	13.79	15.49					
3977.00	bulk	69.61	45.61	59.71	40.22	13.42	55.27	42.14	40.96	78.35	0267-0
		104.82	68.95	96.94	60.09	14.64	0.00	65.81	85.24		
		60.65	68.63	124.06	124.06	80.75					
4214.00	bulk	113.85	67.08	52.46	28.32	10.43	43.87	40.81	34.57	57.21	0268-0
		78.51	57.26	81.00	50.88	9.12	0.00	56.02	72.88		
		55.48	51.81	98.40	98.40	62.97					

Table 10E: Variation in Monoaromatic Sterane Distribution for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Sample
3539.00	bulk	0.23	0.15	0.14	0.12	0265-0
3584.65	bulk	0.30	0.20	0.19	0.16	0266-0
3977.00	bulk	0.25	0.17	0.14	0.11	0267-0
4214.00	bulk	0.23	0.03	0.12	0.06	0268-0

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 10F: Variation in Triaromatic Sterane Distribution for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
3539.00	bulk	0.53	0.50	0.19	0.22	0.24	0265-0
3584.65	bulk	0.72	0.70	0.38	0.40	0.45	0266-0
3977.00	bulk	0.73	0.64	0.39	0.44	0.50	0267-0
4214.00	bulk	0.67	0.62	0.33	0.35	0.41	0268-0

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 10G: Aromatisation of Steranes for Well NOCS 34/4-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3539.00	bulk	0.29	0.96	0265-0
3584.65	bulk	0.28	0.91	0266-0
3977.00	bulk	0.26	0.92	0267-0
4214.00	bulk	0.28	0.87	0268-0

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

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

Table 10H: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
3539.00	bulk	401.85	234.66	815.83	603.35	1380.78	279.92	1144.55	559.55	51.17	0265-0
3584.65	bulk	57.68	33.58	66.38	47.63	132.10	30.97	117.62	66.88	16.14	0266-0
3977.00	bulk	110.30	67.38	185.26	174.61	336.42	119.55	344.39	171.70	50.50	0267-0
4214.00	bulk	7.06	0.74	9.63	13.64	23.22	20.78	29.60	19.54	6.13	0268-0

Table 10I: Raw GCMS trioaromatic sterane data (peak height) for Well NOCS 34/4-3

Depth unit of measure: m

Depth	Lithology	al	bl	cl	dl	e1	f1	g1	Sample
3539.00	bulk	1472.06	1303.31	2069.72	4690.42	1653.08	2157.17	1302.90	0265-0
3584.65	bulk	392.39	367.97	176.48	470.95	222.56	209.10	155.99	0266-0
3977.00	bulk	1497.44	1005.25	534.49	1467.83	649.99	733.76	553.80	0267-0
4214.00	bulk	86.03	67.77	34.60	121.35	55.43	59.88	41.86	0268-0