

GEOCHEMICAL ANALYSES REPORT
WELL NOCS 35/8-2

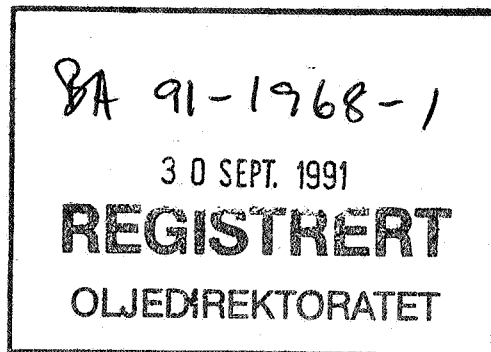
Authors:

Kjell Arne Bakken
Lorraine Buxton
Ian L. Ferriday

Geolab Nor A/S
Hornebergveien 5
7038 Trondheim
Norway

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INTRODUCTION

Well NOCS 35/8-2 is situated in the northernmost part of the Norwegian sector of the North Sea. The well is situated to the north of the Troll gas field and to the east of the Statfjord field. The total drilled depth was 4336 m. The well is located at 61°16'15.42"N and 03°21'58.17"E at a water depth of 381 m. Elevation of Kelly Bushing (KB) was 25 m. All depths are given from KB unless otherwise specified. Samples were collected between 1940 m and 4332 m from the Norwegian Petroleum Directorate in Stavanger. A total of 246 samples was collected, washed (only the cuttings samples when necessary) and described. The analysed section of the well is from 1940 m to 4332 m with sampling interval 30 m in the Cretaceous and 6 m Jurassic, when possible, for the cuttings samples and about 5 m for the core chip samples. A careful selection of suitable samples was made for screening analysis (i.e. TOC and Rock-Eval analysis). A total of 165 samples was selected for this analysis, and from the data obtained, the samples were chosen for follow-up analyses. These were:

Thermal extraction - pyrolysis - gas chromatography	46 samples
Extraction, MPLC fractionation, saturated and aromatic hydrocarbon gas chromatography	27 samples
Vitrinite reflectance microscopy	22 samples
Visual kerogen analysis	16 samples
Isotop analysis of C15+ fractions	14 samples
Gas chromatography - mass spectrometry	14 samples

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1940.00						0087	
	0.43	100	Sh/Clst: lt gy to gn gy, brn gy, calc			0087-1L	
			tr Ca	:	dsk y brn, dol	0087-2L	
			tr Ca	:	w	0087-3L	
1970.00						0088	
		100	Sh/Clst: lt gy to gn gy, brn gy, calc			0088-1L	
			tr Ca	:	dsk y brn, dol	0088-2L	
			tr Ca	:	w	0088-3L	
2000.00						0089	
		100	Sh/Clst: lt gy to gn gy, brn gy, calc			0089-1L	
			tr Ca	:	dsk y brn, dol	0089-2L	
			tr Ca	:	w	0089-3L	
2030.00						0090	
	0.46	100	Sh/Clst: lt gy to m gy to gn gy, brn gy, calc			0090-1L	
			tr Ca	:	w	0090-2L	
			tr Ca	:	dsk y brn, dol	0090-3L	
2060.00						0091	
		100	Sh/Clst: lt gy to m gy to gn gy, brn gy, calc			0091-1L	
			tr Ca	:	w	0091-2L	
			tr Ca	:	dsk y brn, dol	0091-3L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2090.00						0092
			100	Sh/Clst: lt gy to m gy to gn gy, brn gy, calc		0092-1L
				tr Ca : w		0092-2L
				tr Ca : dsk y brn, dol		0092-3L
2120.00						0093
	0.65		100	Sh/Clst: lt gy to m gy to gn gy, brn gy, calc		0093-1L
				tr Ca : w		0093-2L
				tr Sh/Clst: gy red		0093-3L
2150.00						0094
			100	Sh/Clst: lt gy to m gy to gn gy, brn gy, calc		0094-1L
				tr Ca : w		0094-2L
				tr Sh/Clst: gy red		0094-3L
2180.00						0095
			100	Sh/Clst: lt gy to m gy to gn gy, brn gy, calc		0095-1L
				tr Ca : w		0095-2L
				tr Sh/Clst: gy red		0095-3L
2210.00						0096
	0.32		100	Sh/Clst: lt gy to m gy to gn gy, calc		0096-1L
				tr Ca : w		0096-2L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2240.00						0097	
		100	Sh/Clst:	lt gy to m gy to gn gy, calc		0097-1L	
			tr Ca	: w		0097-2L	
2270.00						0098	
		100	Sh/Clst:	lt gy to m gy to gn gy, calc		0098-1L	
			tr Ca	: w		0098-2L	
2300.00						0099	
	0.54	100	Sh/Clst:	lt gy to m gy, calc		0099-1L	
			tr Ca	: w		0099-2L	
			tr Ca	: drk y brn		0099-3L	
2330.00						0100	
		100	Sh/Clst:	lt gy to m gy, calc		0100-1L	
			tr Ca	: w		0100-2L	
			tr Ca	: drk y brn		0100-3L	
2360.00						0101	
		100	Sh/Clst:	lt gy to m gy, calc		0101-1L	
			tr Ca	: w		0101-2L	
			tr Ca	: drk y brn		0101-3L	
2390.00						0102	
	0.49	100	Sh/Clst:	lt gy to m gy, calc		0102-1L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2420.00						0103	
		100	Sh/Clst: lt gy to m gy, calc			0103-1L	
2450.00						0104	
		100	Sh/Clst: lt gy to m gy, calc			0104-1L	
2480.00						0105	
	0.83	100	Sh/Clst: lt gy to m gy, calc tr Ca : drk y brn			0105-1L 0105-2L	
2510.00						0106	
		100	Sh/Clst: lt gy to m gy, calc			0106-1L	
2540.00						0107	
		100	Sh/Clst: lt gy to m gy, calc			0107-1L	
2570.00						0108	
	0.93	100	Sh/Clst: lt gy to m gy, calc			0108-1L	
2600.00						0109	
		100	Sh/Clst: lt gy to m gy, calc			0109-1L	
2630.00						0110	
		100	Sh/Clst: lt gy to m gy, calc			0110-1L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2660.00						0111
	0.30	100		Sh/Clst: lt gy to m gy, calc		0111-1L
2690.00						0112
		100		Sh/Clst: lt gy to m gy, calc		0112-1L
2720.00						0113
		100		Sh/Clst: lt gy to m gy, calc		0113-1L
2750.00						0114
	0.63	100		Sh/Clst: lt gy to m gy, calc		0114-1L
2780.00						0115
		100		Sh/Clst: lt gy to m gy, calc		0115-1L
2810.00						0116
		100		Sh/Clst: lt gy to m gy, calc		0116-1L
				tr Ca : dsk y brn, dol		0116-2L
2840.00						0117
	0.65	100		Sh/Clst: lt gy to m gy, calc		0117-1L
				tr Ca : dsk y brn, dol		0117-2L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2870.00						0118
			100	Sh/Clst: lt gy to m gy, calc		0118-1L
2900.00						0119
			100	Sh/Clst: lt gy to m gy, calc		0119-1L
2928.00						0120
	0.71		100	Sh/Clst: lt gy to m gy, calc		0120-1L
2956.00						0121
			95	Sh/Clst: lt gy to m gy, calc		0121-1L
			5	Ca : w, calc, carb, s, glauc		0121-2L
2984.00						0122
			95	Sh/Clst: lt gy to m gy, calc		0122-1L
			5	Ca : w, calc, carb, s, glauc		0122-2L
3012.00						0123
			100	Sh/Clst: lt gy to m gy, calc		0123-1L
			tr	Ca : w		0123-2L
3044.00						0124
	0.55		100	Sh/Clst: lt gy to m gy, calc		0124-1L
			tr	Cont : prp		0124-2L

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Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3060.00						0125
			95	Sh/Clst: lt gy to m gy, calc, slt		0125-1L
			5	Ca : w, s		0125-2L
3066.00						0126
			100	Sh/Clst: lt gy to m gy, calc, slt		0126-1L
			tr	Ca : w, s		0126-2L
3072.00						0127
			95	Sh/Clst: lt gy to m gy, calc, slt		0127-1L
			5	Sh/Clst: drk gy		0127-3L
			tr	Ca : w, drk y brn		0127-2L
3078.00						0128
	0.44		90	Sh/Clst: lt gy to m gy, calc, slt		0128-1L
			10	Sh/Clst: drk gy		0128-3L
			tr	Ca : w, drk y brn		0128-2L
3084.00						0129
	2.93		50	Sh/Clst: drk gy to brn blk		0129-3L
	cvd		40	Ca : w		0129-2L
	cvd		10	Sh/Clst: lt gy to m gy, calc, slt		0129-1L
3090.00						0130
	3.94		90	Sh/Clst: drk gy to brn blk		0130-3L
	cvd		10	Ca : w		0130-2L
	cvd		tr	Sh/Clst: lt gy to m gy, calc, slt		0130-1L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3096.00						0131
	cvd	4.42	95 5	Sh/Clst: drk gy to brn blk Ca : w		0131-2L 0131-1L
3102.00						0132
	cvd	4.54	95 5	Sh/Clst: drk gy to brn blk Ca : w		0132-2L 0132-1L
3108.00						0133
	cvd	3.66	100 tr	Sh/Clst: drk gy to brn blk Ca : w		0133-2L 0133-1L
3114.00						0134
	cvd	4.77	100 tr	Sh/Clst: drk gy to brn blk Ca : w		0134-2L 0134-1L
3120.00						0135
	cvd	3.85	100 tr	Sh/Clst: drk gy to brn blk Ca : w		0135-2L 0135-1L
3126.00						0136
		5.73	100	Sh/Clst: drk gy to brn blk		0136-1L
3132.00						0137
		6.31	100	Sh/Clst: drk gy to brn blk		0137-1L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3138.00						0138	
	6.63	100	Sh/Clst: drk gy to brn blk			0138-1L	
3144.00						0139	
	5.86	100	Sh/Clst: drk gy to brn blk			0139-1L	
3150.00						0140	
	5.55	100	Sh/Clst: drk gy to brn blk			0140-1L	
3156.00						0141	
	6.22	100	Sh/Clst: drk gy to brn blk			0141-1L	
3162.00						0142	
	5.76	100	Sh/Clst: drk gy to brn blk			0142-1L	
3168.00						0143	
	4.89	100	Sh/Clst: drk gy to brn blk			0143-1L	
3174.00						0144	
	5.89	100	Sh/Clst: drk gy to brn blk, slt, mic			0144-1L	
3180.00						0145	
	6.92	100	Sh/Clst: drk gy to brn blk, slt, mic			0145-1L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3186.00						0146
	5.16	100		Sh/Clst: drk gy to brn blk, slt, mic		0146-1L
3192.00						0147
	6.25	100		Sh/Clst: drk gy to brn blk, slt, mic		0147-1L
3198.00						0148
	5.41	100		Sh/Clst: drk gy to brn blk, slt, mic		0148-1L
3204.00						0149
	5.17	100		Sh/Clst: drk gy to brn blk, slt, mic		0149-1L
3210.00						0150
	0.89		80	Sh/Clst: drk gy to brn blk, slt, mic		0150-1L
			15	S/Sst : drk gy to dsk y brn, cly, mic		0150-2L
			5	Ca : dsk y brn, dol		0150-3L
3216.00						0151
	5.72		90	Sh/Clst: drk gy to brn blk, slt, mic		0151-1L
			5	S/Sst : drk gy to dsk y brn, cly, mic		0151-2L
			5	Ca : dsk y brn, dol		0151-3L
3222.00						0152
	6.52		100	Sh/Clst: drk gy to brn blk, slt, mic		0152-1L
			tr	S/Sst : drk gy to dsk y brn, cly, mic		0152-2L
			tr	Ca : dsk y brn, dol		0152-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3228.00						0153
	3.54	100		Sh/Clst: drk gy to brn blk, slt, mic		0153-1L
3234.00						0154
	8.16	100		Sh/Clst: drk gy to brn blk, slt, mic		0154-1L
3240.00						0155
	8.03	100		Sh/Clst: drk gy to brn blk, slt, mic		0155-1L
3246.00						0156
	4.22	100		Sh/Clst: drk gy to brn blk, slt, mic		0156-1L
3252.00						0157
	6.02	100		Sh/Clst: drk gy to brn blk, slt, mic		0157-1L
3258.00						0158
	4.93	100		Sh/Clst: drk gy to brn blk, slt, mic		0158-1L
3264.00						0159
	2.32	70		Sh/Clst: drk gy to brn blk, slt, mic		0159-1L
		30		S/Sst : dsk y brn, calc, cly, mic, cly, cem		0159-2L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3270.00						0160
	6.24	70	Sh/Clst:	drk gy to brn blk, slt, mic		0160-1L
		30	S/Sst :	dsk y brn, calc, cly, mic, cly, cem		0160-2L
3276.00						0161
	2.60	50	Sh/Clst:	drk gy to brn blk, slt, mic		0161-1L
		50	S/Sst :	dsk y brn, calc, cly, mic, cem		0161-2L
3282.00						0162
	5.27	70	Sh/Clst:	drk gy to brn blk, slt, mic		0162-1L
		30	S/Sst :	dsk y brn, calc, cly, mic, dol, cem		0162-2L
3288.00						0163
	1.48	70	Sh/Clst:	drk gy to brn blk, slt, mic		0163-1L
		30	S/Sst :	dsk y brn, calc, cly, mic, dol, cem		0163-2L
3294.00						0164
	1.29	70	S/Sst :	drk y brn to dsk y brn, calc, cly, mic, dol, cem		0164-2L
		30	Sh/Clst:	drk gy to brn blk, slt, mic		0164-1L
3300.00						0165
	1.17	70	S/Sst :	drk y brn to dsk y brn, lt gy, calc, cly, mic, dol, cem		0165-2L
		30	Sh/Clst:	drk gy to brn blk, slt, mic		0165-1L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3306.00						0166
			70	S/Sst	: drk y brn to dsk y brn, lt gy, calc, cly, mic, dol, cem	0166-2L
			30	Sh/Clst:	drk gy to brn blk, slt, mic	0166-1L
3312.00						0167
	2.31		70	S/Sst	: drk y brn to dsk y brn, lt gy, calc, cly, mic, dol, cem	0167-2L
			30	Sh/Clst:	drk gy to brn blk, slt, mic	0167-1L
3316.90	ccp					0314
	0.11		100	S/Sst	: drk y brn to dsk y brn, calc, mic, dol, cem	0314-1L
3318.00						0168
			50	S/Sst	: drk y brn to dsk y brn, lt gy to w, mic, cem, l	0168-1L
			25	Sh/Clst:	drk gy to brn blk, slt, mic	0168-2L
	cvd		25	Sh/Clst:	lt gy to m gy, calc	0168-3L
3324.00						0169
	0.10		60	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l	0169-1L
			25	Sh/Clst:	drk gy to brn blk, slt, mic	0169-2L
			15	Sh/Clst:	lt gy to m gy, calc	0169-3L
	cvd		tr	Cont	: cem, dd	0169-4L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3330.00						0170
	cvd			60 S/Sst : drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0170-1L
				40 Sh/Clst: drk gy to brn blk, slt, mic		0170-2L
				tr Sh/Clst: lt gy to m gy, calc		0170-3L
				tr Cont : cem, dd		0170-4L
3336.00						0171
	cvd	0.48		70 S/Sst : drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0171-1L
				30 Sh/Clst: drk gy to brn blk, slt, mic		0171-2L
				tr Sh/Clst: lt gy to m gy, calc		0171-3L
				tr Cont : cem, dd		0171-4L
3342.00						0172
				70 S/Sst : drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0172-1L
				25 Sh/Clst: drk gy to brn blk, slt, mic		0172-2L
				5 Cont : cem, dd		0172-3L
3348.00						0173
		0.08		50 S/Sst : drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0173-1L
				50 Sh/Clst: drk gy to brn blk, slt, mic		0173-2L
				tr Cont : cem, dd		0173-3L
3354.00						0174
				50 S/Sst : drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0174-1L
				50 Sh/Clst: drk gy to brn blk, slt, mic		0174-2L
				tr Cont : cem, dd		0174-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3360.00						0175
	3.18	70	Sh/Clst:	drk gy to brn blk, slt, mic		0175-2L
		25	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0175-1L
		5	Ca	: dsk y brn, dol		0175-4L
		tr	Cont	: cem, dd		0175-3L
3366.00						0176
	2.87	70	Sh/Clst:	drk gy to brn blk, slt, mic		0176-2L
		25	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0176-1L
		5	Ca	: dsk y brn, dol		0176-4L
		tr	Cont	: cem, dd		0176-3L
3372.00						0177
	2.06	80	Sh/Clst:	drk gy to brn blk, slt		0177-2L
		20	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0177-1L
		tr	Ca	: dsk y brn, dol		0177-3L
3378.00						0178
	2.74	90	Sh/Clst:	drk gy to brn blk, slt		0178-2L
		5	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0178-1L
		5	Ca	: drk y brn to dsk y brn, dol		0178-3L
3384.00						0179
	2.83	85	Sh/Clst:	drk gy to brn blk, slt		0179-2L
		5	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0179-1L
		5	Ca	: drk y brn to dsk y brn, dol		0179-3L
		5	Sh/Clst:	brn gy, slt		0179-4L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3390.00						0180
	2.07	85	Sh/Clst:	drk gy to brn blk, slt		0180-2L
		10	Ca	: drk y brn to dsk y brn, dol		0180-3L
		5	Sh/Clst:	brn gy, slt		0180-4L
		tr	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0180-1L
3396.00						0181
	1.69	45	Sh/Clst:	drk gy to brn blk, slt		0181-2L
		35	Sh/Clst:	brn gy, lt gy, slt		0181-4L
		20	Ca	: drk y brn to dsk y brn, dol		0181-3L
		tr	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0181-1L
3402.00						0182
	0.57	50	Sh/Clst:	drk gy to gy blk, slt		0182-2L
		25	Ca	: drk y brn to dsk y brn, dol		0182-3L
		25	Sh/Clst:	brn gy, lt gy, slt		0182-4L
		tr	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0182-1L
3408.00						0183
	1.71	50	Sh/Clst:	drk gy to gy blk, slt		0183-2L
		30	Sh/Clst:	brn gy, lt gy, slt		0183-4L
		20	Ca	: drk y brn to dsk y brn, dol		0183-3L
		tr	S/Sst	: drk y brn to dsk y brn, lt gy to w, calc, mic, dol, cem, l		0183-1L
3414.00						0184
	2.12	70	Sh/Clst:	drk gy to gy blk, slt		0184-1L
		15	Ca	: drk y brn to dsk y brn, dol		0184-2L
		15	Sh/Clst:	brn gy, lt gy, slt		0184-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3420.00						0185
	2.12	75	Sh/Clst:	drk gy to gy blk, slt		0185-1L
		15	Ca	: drk y brn to dsk y brn, dol		0185-2L
		10	Sh/Clst:	brn gy, lt gy, slt		0185-3L
3426.00						0186
	2.29	85	Sh/Clst:	drk gy to gy blk, slt		0186-1L
		10	Ca	: drk y brn to dsk y brn, dol		0186-2L
		5	Sh/Clst:	brn gy, lt gy, slt		0186-3L
3432.00						0187
	2.13	95	Sh/Clst:	drk gy to gy blk, slt		0187-1L
		5	Ca	: drk y brn to dsk y brn, dol		0187-2L
		tr	Sh/Clst:	brn gy, lt gy, slt		0187-3L
3438.00						0188
	1.97	100	Sh/Clst:	drk gy to gy blk, slt		0188-1L
		tr	Ca	: drk y brn to dsk y brn, dol		0188-2L
		tr	Sh/Clst:	brn gy, lt gy, slt		0188-3L
3444.00						0189
	2.08	100	Sh/Clst:	drk gy to gy blk, slt		0189-1L
		tr	Ca	: drk y brn to dsk y brn, dol		0189-2L
		tr	Sh/Clst:	brn gy, lt gy, slt		0189-3L
3450.00						0190
	2.35	100	Sh/Clst:	drk gy to gy blk, slt		0190-1L
		tr	Ca	: drk y brn to dsk y brn, dol		0190-2L
		tr	Sh/Clst:	brn gy, lt gy, slt		0190-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3456.00						0191
	2.37	100	Sh/Clst:	drk gy to gy blk, slt		0191-1L
			tr Ca	: drk y brn to dsk y brn, dol		0191-2L
			tr Sh/Clst:	brn gy, lt gy, slt		0191-3L
3462.00						0192
	1.78	100	Sh/Clst:	drk gy to gy blk, slt		0192-1L
			tr Ca	: drk y brn to dsk y brn, dol		0192-2L
			tr S/Sst	: dsk y brn to lt gy, cem		0192-3L
3468.00						0193
	2.13	100	Sh/Clst:	drk gy to gy blk, slt		0193-1L
			tr Ca	: drk y brn to dsk y brn, dol		0193-2L
			tr S/Sst	: dsk y brn to lt gy, cem		0193-3L
3474.00						0194
	2.33	95	Sh/Clst:	drk gy to gy blk, slt		0194-1L
		5	Sh/Clst:	lt gy to brn gy		0194-3L
			tr Ca	: drk y brn to dsk y brn, dol		0194-2L
3480.00						0195
	2.86	100	Sh/Clst:	drk gy to gy blk, slt		0195-1L
			tr Ca	: drk y brn to dsk y brn, dol		0195-2L
			tr Sh/Clst:	lt gy to brn gy		0195-3L
3486.00						0196
	2.60	100	Sh/Clst:	drk gy to gy blk, slt		0196-1L
			tr Ca	: drk y brn to dsk y brn, dol		0196-2L
			tr Sh/Clst:	lt gy to brn gy		0196-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3490.00						0197	
	2.86	95	Sh/Clst: drk gy to gy blk, slt			0197-1L	
		5	Ca : drk y brn to dsk y brn, dol			0197-2L	
		tr	Sh/Clst: lt gy to brn gy			0197-3L	
3496.00						0198	
	3.29	95	Sh/Clst: drk gy to gy blk, slt			0198-1L	
		5	Ca : drk y brn to dsk y brn, dol			0198-2L	
		tr	Sh/Clst: lt gy to brn gy			0198-3L	
3502.00						0199	
	3.03	100	Sh/Clst: drk gy to gy blk, slt			0199-1L	
		tr	Ca : drk y brn to dsk y brn, dol			0199-2L	
3508.00						0200	
	4.45	100	Sh/Clst: drk gy to gy blk, slt			0200-1L	
		tr	Ca : drk y brn to dsk y brn, dol			0200-2L	
		tr	Cont : prp			0200-3L	
3514.00						0201	
	4.12	95	Sh/Clst: drk gy to gy blk, slt			0201-1L	
		5	Sh/Clst: lt gy			0201-4L	
		tr	Ca : drk y brn to dsk y brn, dol			0201-2L	
		tr	Cont : prp			0201-3L	
3520.00						0202	
	5.39	100	Sh/Clst: drk gy to gy blk, slt			0202-1L	
		tr	Ca : drk y brn to dsk y brn, dol			0202-2L	
		tr	Cont : prp			0202-3L	
		tr	Sh/Clst: lt gy			0202-4L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3526.00						0203	
	3.50	100	Sh/Clst: drk gy to gy blk, slt tr Ca : drk y brn to dsk y brn, dol tr Sh/Clst: lt gy			0203-1L 0203-2L 0203-3L	
3532.00						0204	
	2.23	100	Sh/Clst: drk gy to gy blk, slt tr Ca : drk y brn to dsk y brn, dol tr Sh/Clst: lt gy			0204-1L 0204-2L 0204-3L	
3538.00						0205	
		100	Cont : cem tr Sh/Clst: drk gy to gy blk, slt tr Ca : drk y brn to dsk y brn, dol tr Sh/Clst: lt gy			0205-4L 0205-1L 0205-2L 0205-3L	
3544.00						0206	
		50	Sh/Clst: drk gy to gy blk, slt			0206-1L	
		30	Cont : Mica-ad, prp, dd			0206-5L	
		10	Sh/Clst: lt gy			0206-3L	
		5	Ca : drk y brn to dsk y brn, dol			0206-2L	
		5	Cont : cem			0206-4L	
3550.00						0207	
	2.33	50	Sh/Clst: drk gy to gy blk, slt			0207-1L	
		30	Cont : Mica-ad, prp, dd			0207-5L	
		10	Sh/Clst: lt gy			0207-3L	
		5	Ca : drk y brn to dsk y brn, dol			0207-2L	
		5	Cont : cem			0207-4L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3556.00						0208
				55 Sh/Clst: drk gy to gy blk, slt		0208-1L
				30 Cont : Mica-ad, prp, dd		0208-5L
				10 Sh/Clst: lt gy		0208-3L
				5 Ca : drk y brn to dsk y brn, dol		0208-2L
				tr Cont : cem		0208-4L
3562.00						0209
	1.58			80 Sh/Clst: drk gy to gy blk, slt		0209-1L
				10 Cont : Mica-ad, prp, dd		0209-4L
				5 Ca : drk y brn to dsk y brn, dol		0209-2L
				5 Sh/Clst: lt gy		0209-3L
3568.00						0210
	2.89			80 Sh/Clst: drk gy to gy blk, slt		0210-1L
				10 Cont : Mica-ad, prp, dd		0210-4L
				5 Ca : drk y brn to dsk y brn, dol		0210-2L
				5 Sh/Clst: lt gy		0210-3L
3574.00						0211
	2.88			80 Sh/Clst: drk gy to gy blk, slt		0211-1L
				10 Cont : Mica-ad, prp, dd		0211-4L
				5 Ca : drk y brn to dsk y brn, dol		0211-2L
				5 Sh/Clst: lt gy		0211-3L
3580.00						0212
	3.35			80 Sh/Clst: drk gy to gy blk, slt		0212-1L
				10 Cont : Mica-ad, prp, dd		0212-4L
				5 Ca : drk y brn to dsk y brn, dol		0212-2L
				5 Sh/Clst: lt gy		0212-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3586.00						0213
	2.94	90		Sh/Clst: drk gy to gy blk, slt		0213-1L
		5		Ca : drk y brn to dsk y brn, dol		0213-2L
		5		Cont : prp		0213-3L
3592.00						0214
	3.05	90		Sh/Clst: drk gy to gy blk, slt		0214-1L
		5		Ca : drk y brn to dsk y brn, dol		0214-2L
		5		Cont : prp		0214-3L
3598.00						0215
	3.54	90		Sh/Clst: drk gy to gy blk, slt, mic		0215-1L
		5		Ca : drk y brn to dsk y brn, dol		0215-2L
		5		Cont : prp		0215-3L
		tr		Sh/Clst: lt gy		0215-4L
3604.00						0216
	4.16	90		Sh/Clst: drk gy to gy blk, slt, mic		0216-1L
		5		Ca : drk y brn to dsk y brn, dol		0216-2L
		5		Cont : prp		0216-3L
		tr		Sh/Clst: lt gy		0216-4L
3610.00						0217
	3.93	90		Sh/Clst: drk gy to gy blk, slt, mic		0217-1L
		5		Ca : drk y brn to dsk y brn, dol		0217-2L
		5		Cont : prp		0217-3L
		tr		Sh/Clst: lt gy		0217-4L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3616.00						0218
	2.33	85	Sh/Clst:	drk gy to gy blk, slt, mic		0218-1L
		15	Cont	: Mica-ad, prp, ns		0218-3L
		tr	Ca	: drk y brn to dsk y brn, dol		0218-2L
		tr	Sh/Clst:	lt gy		0218-4L
3622.00						0219
	4.04	85	Sh/Clst:	drk gy to gy blk, slt, mic		0219-1L
		15	Cont	: Mica-ad, prp, ns		0219-3L
		tr	Ca	: drk y brn to dsk y brn, dol		0219-2L
		tr	Sh/Clst:	lt gy		0219-4L
3628.00						0220
	4.56	95	Sh/Clst:	drk gy to gy blk, slt, mic		0220-1L
		5	Cont	: Mica-ad, prp, ns		0220-3L
		tr	Ca	: drk y brn to dsk y brn, dol		0220-2L
		tr	Sh/Clst:	lt gy		0220-4L
3634.00						0221
	4.82	95	Sh/Clst:	drk gy to gy blk, slt, mic		0221-1L
		5	Cont	: Mica-ad, prp, ns		0221-3L
		tr	Ca	: drk y brn to dsk y brn, dol		0221-2L
		tr	Sh/Clst:	lt gy		0221-4L
3640.00						0222
	4.58	100	Sh/Clst:	drk gy to gy blk, slt, mic		0222-1L
		tr	Ca	: drk y brn to dsk y brn, dol		0222-2L
		tr	Cont	: Mica-ad, prp, ns		0222-3L
		tr	Sh/Clst:	lt gy		0222-4L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3646.00						0223
	3.95	100	Sh/Clst:	drk gy to gy blk, slt, mic		0223-1L
			tr Ca	: drk y brn to dsk y brn, dol		0223-2L
			tr Cont	: Mica-ad, prp, ns		0223-3L
			tr Sh/Clst:	lt gy		0223-4L
3652.00						0224
	4.72	95	Sh/Clst:	drk gy to gy blk, slt, mic		0224-1L
		5	Cont	: Mica-ad, prp, ns		0224-3L
			tr Ca	: drk y brn to dsk y brn, dol		0224-2L
			tr Sh/Clst:	lt gy		0224-4L
3658.00						0225
	4.64	95	Sh/Clst:	drk gy to gy blk, slt, mic		0225-1L
		5	Cont	: Mica-ad, prp, ns		0225-3L
			tr Ca	: drk y brn to dsk y brn, dol		0225-2L
			tr Sh/Clst:	lt gy		0225-4L
3664.00						0226
	3.62	95	Sh/Clst:	drk gy to gy blk, slt, mic		0226-1L
		5	Cont	: Mica-ad, prp, ns		0226-3L
			tr Ca	: drk y brn to dsk y brn, dol		0226-2L
			tr Sh/Clst:	lt gy		0226-4L
3667.70	ccp					0315
	0.39	100	S/Sst	: lt gy to lt y gy, cem		0315-1L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3672.70	ccp					0316
	0.20	100	S/Sst	: lt gy, cem		0316-1L
3677.70	ccp					0317
	0.41	100	S/Sst	: lt gy, cly, mic, cem		0317-1L
3682.70	ccp					0318
	0.82	100	S/Sst	: lt gy, cly, mic, f, cem		0318-1L
3687.55	ccp					0319
	0.86	100	S/Sst	: lt gy, cly, mic, f, cem		0319-1L
3692.70	ccp					0320
	76.59	100	Coal	: blk		0320-1L
3697.00	ccp					0321
	0.28	100	S/Sst	: lt gy to brn gy, cem		0321-1L
3702.50	ccp					0322
	0.24	100	S/Sst	: lt gy, cly, f, cem		0322-1L
3707.50	ccp					0323
	0.17	100	S/Sst	: lt gy, cem		0323-1L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3712.60	ccp					0324	
	0.24	100	Sltst : lt gy, s, cly			0324-1L	
3717.70	ccp					0325	
	0.50	100	S/Sst : lt gy, slt, cly, cem			0325-1L	
3722.60	ccp					0326	
	0.37	100	S/Sst : lt gy, slt, cem			0326-1L	
3727.60	ccp					0327	
	0.65	100	Sltst : lt gy to lt y gy, cly			0327-1L	
3733.05	ccp					0328	
	1.44	100	Sh/Clst: lt gy to drk gy, slt, mic			0328-1L	
3738.70	ccp					0329	
	0.67	100	Sltst : lt gy to lt y gy, cly			0329-1L	
3743.76	ccp					0330	
	0.26	100	S/Sst : lt gy, slt, mic			0330-1L	
3747.20	ccp					0331	
	1.89	100	Sh/Clst: m gy, slt, mic			0331-1L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3752.45	ccp					0332	
	1.73	100	Sh/Clst: m gy to drk gy			0332-1L	
3760.00						0227	
	65.31	80	Coal	:	blk	0227-1L	
		15	S/Sst	:	lt gy, cem	0227-2L	
		5	Cont	:	prp	0227-3L	
3766.00						0228	
		55	S/Sst	:	lt gy, st, cem	0228-2L	
		40	Coal	:	blk	0228-1L	
		5	Sh/Clst:		lt gy	0228-4L	
		tr	Cont	:	prp	0228-3L	
3772.00						0229	
	0.17	65	S/Sst	:	lt gy, st, cem	0229-2L	
		20	Sh/Clst:		drk y brn, slt	0229-5L	
		15	Coal	:	blk	0229-1L	
		tr	Cont	:	prp	0229-3L	
		tr	Sh/Clst:		lt gy	0229-4L	
3778.00						0230	
		55	S/Sst	:	lt gy, st, cem	0230-2L	
		35	Sh/Clst:		drk y brn, slt	0230-5L	
		10	Coal	:	blk	0230-1L	
		tr	Cont	:	prp	0230-3L	
		tr	Sh/Clst:		lt gy	0230-4L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3784.00						0231
				50 S/Sst : lt gy, st, cem		0231-2L
				20 Cont : st, Coal-ad, prp		0231-3L
				15 Coal : blk, st		0231-1L
				15 Sh/Clst: drk y brn, slt, st		0231-5L
				tr Sh/Clst: lt gy		0231-4L
3790.00						0232
	0.70			85 S/Sst : w to lt gy, l		0232-2L
				15 Coal : blk		0232-1L
3796.00						0233
				65 S/Sst : w to lt gy, st, cem		0233-2L
				20 Sh/Clst: drk y brn to dsk y brn, slt		0233-3L
				15 Coal : blk		0233-1L
3802.00						0234
	53.47			75 Coal : blk		0234-1L
				15 S/Sst : w to lt gy		0234-2L
				10 Sh/Clst: drk y brn to dsk y brn, slt		0234-3L
3808.00						0235
				90 S/Sst : w to lt gy		0235-2L
				5 Coal : blk		0235-1L
				5 Sh/Clst: drk y brn to dsk y brn, slt		0235-3L
3814.00						0236
	0.34			90 S/Sst : w to lt gy		0236-2L
				5 Coal : blk		0236-1L
				5 Sh/Clst: drk y brn to dsk y brn, slt		0236-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3820.00						0237
	0.27	95	S/Sst	: w to lt gy		0237-2L
		5	Coal	: blk		0237-1L
		tr	Sh/Clst:	drk y brn to dsk y brn, slt		0237-3L
3826.00						0238
		65	Cont	: st, Coal-ad, prp, ns		0238-3L
		30	S/Sst	: w to lt gy, st		0238-2L
		5	Coal	: blk		0238-1L
3832.00						0239
		80	Cont	: st, Coal-ad, prp, ns		0239-3L
		20	S/Sst	: w to lt gy, st		0239-2L
		tr	Coal	: blk		0239-1L
3838.00						0240
		80	Cont	: st, Coal-ad, prp, ns		0240-3L
		20	S/Sst	: w to lt gy, st		0240-2L
		tr	Coal	: blk		0240-1L
3844.00						0241
		80	Cont	: st, Coal-ad, prp, ns		0241-3L
		20	S/Sst	: w to lt gy, st		0241-2L
		tr	Coal	: blk		0241-1L
3850.00						0242
	0.22	70	S/Sst	: w to lt gy, st		0242-2L
		20	Cont	: st, Coal-ad, prp, ns		0242-3L
		10	Coal	: blk		0242-1L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3856.00						0243
				70 S/Sst : w to lt gy, st		0243-2L
				20 Cont : st, Coal-ad, prp, ns		0243-3L
				10 Coal : blk		0243-1L
				tr Sh/Clst: dsk y brn, wx		0243-4L
3862.00						0244
	0.21			60 S/Sst : w to lt gy to drk gy		0244-2L
				20 Cont : st, Coal-ad, prp, ns		0244-3L
				10 Coal : blk		0244-1L
				10 Sh/Clst: lt gy		0244-5L
				tr Sh/Clst: dsk y brn, wx		0244-4L
3868.00						0245
				95 Cont : st, Coal-ad, prp, ns		0245-3L
				5 S/Sst : w to lt gy to drk gy		0245-2L
				tr Coal : blk		0245-1L
				tr Sh/Clst: dsk y brn, wx		0245-4L
				tr Sh/Clst: lt gy		0245-5L
3874.00						0246
				40 Cont : st, Coal-ad, prp, ns		0246-3L
				40 Sh/Clst: drk gy, st		0246-5L
				20 S/Sst : w to lt gy to drk gy		0246-2L
				tr Coal : blk		0246-1L
				tr Sh/Clst: dsk y brn, wx		0246-4L
3880.00						0247
				50 Sh/Clst: m gy to drk gy, st		0247-5L
				20 Cont : st, Coal-ad, prp, ns		0247-3L
				15 Coal : blk		0247-1L
				15 S/Sst : w to lt gy to drk gy		0247-2L
				tr Sh/Clst: dsk y brn, wx		0247-4L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3886.00						0248
	2.40	85	Sh/Clst:	m gy to drk gy, slt		0248-5L
		10	S/Sst	: w to lt gy to drk gy		0248-2L
		5	Cont	: st, Coal-ad, prp, ns		0248-3L
			tr Coal	: blk		0248-1L
			tr Sh/Clst:	dsk y brn, wx		0248-4L
3892.00						0249
	2.33	75	Sh/Clst:	m gy to drk gy, slt		0249-5L
		10	Coal	: blk		0249-1L
		10	S/Sst	: w to lt gy to drk gy		0249-2L
		5	Cont	: st, Coal-ad, prp, ns		0249-3L
			tr Sh/Clst:	dsk y brn, wx		0249-4L
3898.00						0250
		95	Cont	: st, Coal-ad, prp, ns		0250-3L
		5	Sh/Clst:	m gy to drk gy, slt		0250-5L
			tr Coal	: blk		0250-1L
			tr S/Sst	: w to lt gy to drk gy		0250-2L
			tr Sh/Clst:	dsk y brn, wx		0250-4L
3904.00						0251
		95	Cont	: st, Coal-ad, prp, ns		0251-3L
		5	Sh/Clst:	m gy to drk gy, slt		0251-5L
			tr Coal	: blk		0251-1L
			tr S/Sst	: w to lt gy to drk gy		0251-2L
			tr Sh/Clst:	dsk y brn, wx		0251-4L
3910.00						0252
		95	Cont	: ns		0252-3L
		5	Sh/Clst:	m gy to drk gy, slt		0252-5L
			tr Coal	: blk		0252-1L
			tr S/Sst	: w to lt gy to drk gy		0252-2L
			tr Sh/Clst:	dsk y brn, wx		0252-4L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3916.00						0253	
		95	Cont	: ns		0253-3L	
		5	Sh/Clst:	m gy to drk gy, slt		0253-5L	
		tr	Coal	: blk		0253-1L	
		tr	S/Sst	: w to lt gy to drk gy		0253-2L	
		tr	Sh/Clst:	dsk y brn, wx		0253-4L	
3922.00						0254	
	1.17	75	Sh/Clst:	m gy to drk gy, slt, mic		0254-4L	
		10	Coal	: blk		0254-1L	
		10	Cont	: ns		0254-3L	
		5	S/Sst	: w to lt gy to drk gy		0254-2L	
3928.00						0255	
	1.30	75	S/Sst	: m gy to drk gy, slt, cly, f		0255-2L	
		10	Cont	: ns		0255-3L	
		10	Sh/Clst:	m gy to drk gy, slt, mic		0255-4L	
		5	Coal	: blk		0255-1L	
3934.00						0256	
	26.69	50	Cont	: blk, Coal-ad		0256-1L	
		50	S/Sst	: w to lt gy, l		0256-2L	
		tr	Cont	: ns		0256-3L	
		tr	Sh/Clst:	m gy to drk gy, slt, mic		0256-4L	
3940.00						0257	
	0.46	50	S/Sst	: w to lt gy to brn gy		0257-2L	
		30	Cont	: blk, Coal-ad		0257-1L	
		10	Cont	: ns		0257-3L	
		10	Sh/Clst:	drk y brn, carb, wx		0257-5L	
		tr	Sh/Clst:	m gy to drk gy, slt, mic		0257-4L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3946.00						0258
	2.56	50	Sh/Clst:	m gy to drk gy, slt, mic		0258-4L
		20	S/Sst	: w to lt gy to brn gy		0258-2L
		20	Cont	: ns		0258-3L
		10	Cont	: blk, Coal-ad		0258-1L
		tr	Sh/Clst:	drk y brn, carb, wx		0258-5L
3952.00						0259
		80	Cont	: ns		0259-3L
		10	S/Sst	: w to lt gy to brn gy		0259-2L
		10	Sh/Clst:	m gy to drk gy, slt, mic		0259-4L
		tr	Cont	: blk, Coal-ad		0259-1L
		tr	Sh/Clst:	drk y brn, carb, wx		0259-5L
3958.00						0260
	0.45	75	S/Sst	: w to lt gy to brn gy		0260-2L
		15	Cont	: prp, ns		0260-3L
		5	Cont	: blk, Coal-ad		0260-1L
		5	Sh/Clst:	m gy to drk gy, slt, mic		0260-4L
3964.00						0261
	0.16	75	S/Sst	: w to lt gy to brn gy		0261-2L
		15	Cont	: prp, ns		0261-3L
		5	Cont	: blk, Coal-ad		0261-1L
		5	Sh/Clst:	m gy to drk gy, slt, mic		0261-4L
3970.00						0262
		50	Sh/Clst:	m gy to drk gy, slt, mic		0262-4L
		40	Cont	: prp, ns		0262-3L
		10	S/Sst	: w to lt gy to brn gy		0262-2L
		tr	Cont	: blk, Coal-ad		0262-1L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3976.00						0263	
	24.22	90	Cont	:	blk to brn blk, Coal-ad	0263-1L	
		5	S/Sst	:	w to lt gy to brn gy	0263-2L	
		5	Cont	:	prp, ns	0263-3L	
		tr	Sh/Clst:		m gy to drk gy, slt, mic	0263-4L	
3982.00						0264	
		90	Cont	:	blk to brn blk, Coal-ad	0264-1L	
		5	S/Sst	:	w to lt gy to brn gy	0264-2L	
		5	Cont	:	prp, ns	0264-3L	
		tr	Sh/Clst:		m gy to drk gy, slt, mic	0264-4L	
3988.00						0265	
	29.53	90	Cont	:	blk to brn blk, Coal-ad	0265-1L	
		5	S/Sst	:	w to lt gy to brn gy	0265-2L	
		5	Cont	:	prp, ns	0265-3L	
		tr	Sh/Clst:		m gy to drk gy, slt, mic	0265-4L	
3996.00						0266	
		90	Cont	:	blk to brn blk, Coal-ad	0266-1L	
		5	S/Sst	:	w to lt gy to brn gy	0266-2L	
		5	Cont	:	prp, ns	0266-3L	
		tr	Sh/Clst:		m gy to drk gy, slt, mic	0266-4L	
4000.00						0267	
	43.70	90	Cont	:	blk to brn blk, Coal-ad	0267-1L	
		5	S/Sst	:	w to lt gy to brn gy	0267-2L	
		5	Cont	:	Coal-ad, prp, ns	0267-3L	
		tr	Sh/Clst:		m gy to drk gy, slt, mic	0267-4L	

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4004.00						0268
			40	Cont : blk to brn blk, Coal-ad		0268-1L
			40	S/Sst : w to lt gy		0268-2L
			20	Cont : Coal-ad, prp, ns		0268-3L
			tr	Sh/Clst: m gy to drk gy, slt, mic		0268-4L
4016.00						0269
		0.21	40	Cont : blk to brn blk, Coal-ad		0269-1L
			40	S/Sst : w to lt gy		0269-2L
			20	Cont : Coal-ad, prp, ns		0269-3L
4022.00						0270
			40	Cont : blk to brn blk, Coal-ad		0270-1L
			40	S/Sst : w to lt gy		0270-2L
			20	Cont : Coal-ad, prp, ns		0270-3L
4030.00						0271
		36.94	40	Cont : blk to brn blk, Coal-ad		0271-1L
			40	S/Sst : w to lt gy		0271-2L
			20	Cont : Coal-ad, prp, ns		0271-3L
4034.00						0272
		0.15	70	Cont : blk to gy blk		0272-1L
			20	S/Sst : w to lt gy		0272-2L
			10	Cont : Coal-ad, prp, ns		0272-3L
4042.00						0273
			50	Cont : blk to gy blk		0273-1L
			40	S/Sst : w to lt gy		0273-2L
			10	Cont : Coal-ad, prp, ns		0273-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4050.00						0274
	0.17		50 Cont	: blk to gy blk		0274-1L
			40 S/Sst	: w to lt gy		0274-2L
			10 Cont	: Coal-ad, prp, ns		0274-3L
4054.00						0275
	0.08		60 S/Sst	: w to lt gy		0275-2L
			30 Cont	: blk to gy blk		0275-1L
			10 Cont	: Coal-ad, prp, ns		0275-3L
4062.00						0276
	0.26		45 Cont	: blk to gy blk		0276-1L
			45 S/Sst	: w to lt gy		0276-2L
			10 Cont	: Coal-ad, prp, ns		0276-3L
4066.00						0277
			75 Cont	: blk to gy blk		0277-1L
			20 S/Sst	: w to lt gy		0277-2L
			5 Cont	: Coal-ad, prp, ns		0277-3L
4074.00						0278
	0.35		75 Cont	: blk to gy blk		0278-1L
			20 S/Sst	: w to lt gy		0278-2L
			5 Cont	: Coal-ad, prp, ns		0278-3L
4078.00						0279
			75 Cont	: blk to gy blk		0279-1L
			20 S/Sst	: w to lt gy		0279-2L
			5 Cont	: Coal-ad, prp, ns		0279-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4086.00						0280
	0.53	90	Cont	:	blk to drk brn gy	0280-1L
		5	S/Sst	:	w to lt gy	0280-2L
		5	Cont	:	Coal-ad, prp, ns	0280-3L
4090.00						0281
		90	Cont	:	blk to drk brn gy	0281-1L
		5	S/Sst	:	w to lt gy	0281-2L
		5	Cont	:	Coal-ad, prp, ns	0281-3L
4094.00						0282
	0.59	90	Cont	:	blk to drk brn gy	0282-1L
		5	S/Sst	:	w to lt gy	0282-2L
		5	Cont	:	Coal-ad, prp, ns	0282-3L
4102.00						0283
		95	Cont	:	blk to drk brn gy	0283-1L
		5	Cont	:	Coal-ad, prp, ns	0283-3L
		tr	S/Sst	:	w to lt gy	0283-2L
4106.00						0284
	0.53	95	Cont	:	blk to drk brn gy	0284-1L
		5	Cont	:	Coal-ad, prp, ns	0284-3L
		tr	S/Sst	:	w to lt gy	0284-2L
4114.00						0285
		95	Cont	:	blk to drk brn gy	0285-1L
		5	Cont	:	Coal-ad, prp, ns	0285-3L
		tr	S/Sst	:	w to lt gy	0285-2L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4122.00						0286
			65	Cont : blk to drk brn gy		0286-1L
			30	S/Sst : w to lt gy		0286-2L
			5	Cont : Coal-ad, prp, ns		0286-3L
4130.00						0287
			65	Cont : blk to drk brn gy		0287-1L
			30	S/Sst : w to lt gy		0287-2L
			5	Cont : Coal-ad, prp, ns		0287-3L
4138.00						0288
	0.45		65	Cont : blk to drk brn gy		0288-1L
			30	Cont : Coal-ad, prp, ns		0288-3L
			5	S/Sst : w to lt gy		0288-2L
4148.00						0289
			65	Cont : blk to drk brn gy		0289-1L
			30	Cont : Coal-ad, prp, ns		0289-3L
			5	S/Sst : w to lt gy		0289-2L
4152.00						0290
	25.52		65	Cont : blk to drk brn gy, Coal-ad		0290-1L
			25	Cont : Coal-ad, prp, ns		0290-3L
			10	S/Sst : w to lt gy		0290-2L
4160.00						0291
			60	Cont : blk to drk brn gy, Coal-ad		0291-1L
			35	Cont : Coal-ad, prp, ns, dd		0291-3L
			5	S/Sst : w to lt gy		0291-2L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4164.00						0292
			60	Cont	: blk to drk brn gy, Coal-ad	0292-1L
			35	Cont	: Coal-ad, prp, ns, dd	0292-3L
			5	S/Sst	: w to lt gy	0292-2L
4168.00						0293
	28.03		65	Cont	: blk to drk brn gy, Coal-ad	0293-1L
			20	S/Sst	: w to lt gy	0293-2L
			15	Cont	: Coal-ad, prp, ns, dd	0293-3L
4176.00						0294
			65	Cont	: blk to drk brn gy, Coal-ad	0294-1L
			20	S/Sst	: w to lt gy	0294-2L
			15	Cont	: Coal-ad, prp, ns, dd	0294-3L
4180.00						0295
	0.26		65	Cont	: blk to drk brn gy, Coal-ad	0295-1L
			20	S/Sst	: w to lt gy	0295-2L
			15	Cont	: Coal-ad, prp, ns, dd	0295-3L
4184.00						0296
			65	Cont	: blk to drk brn gy, Coal-ad	0296-1L
			20	Cont	: Coal-ad, prp, ns, dd, fib	0296-3L
			15	S/Sst	: w to lt gy	0296-2L
4192.00						0297
			65	Cont	: blk to drk brn gy, Coal-ad	0297-1L
			20	Cont	: Coal-ad, prp, ns, dd, fib	0297-3L
			15	S/Sst	: w to lt gy	0297-2L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4212.00						0298
			35	Cont	: blk to drk brn gy, Coal-ad	0298-1L
			35	S/Sst	: w to lt gy	0298-2L
			30	Cont	: Coal-ad, prp, ns, dd, fib	0298-3L
4228.00						0299
	39.07		50	Cont	: blk to drk brn gy, Coal-ad	0299-1L
			25	S/Sst	: w to lt gy	0299-2L
			25	Cont	: Coal-ad, prp, ns, dd, fib	0299-3L
4240.00						0300
			50	Cont	: blk to drk brn gy, Coal-ad	0300-1L
			25	S/Sst	: w to lt gy	0300-2L
			25	Cont	: Coal-ad, prp, ns, dd, fib	0300-3L
4248.00						0301
	0.16		60	S/Sst	: w to lt gy	0301-2L
			30	Cont	: Coal-ad, prp, ns, dd, fib	0301-3L
			10	Cont	: blk to drk brn gy, Coal-ad	0301-1L
4256.00						0302
			70	S/Sst	: w to lt gy	0302-2L
			20	Cont	: blk to drk brn gy, Coal-ad	0302-1L
			10	Cont	: Coal-ad, prp, ns, dd, fib	0302-3L
4260.00						0303
	0.06		70	S/Sst	: w to lt gy	0303-2L
			20	Cont	: blk to drk brn gy, Coal-ad	0303-1L
			10	Cont	: Coal-ad, prp, ns, dd, fib	0303-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4272.00						0304
			70	S/Sst	: w to lt gy	0304-2L
			20	Cont	: blk to drk brn gy, Coal-ad	0304-1L
			10	Cont	: Coal-ad, prp, ns, dd, fib	0304-3L
4284.00						0305
	0.16		60	S/Sst	: w to lt gy	0305-2L
			20	Cont	: blk to drk brn gy, Coal-ad	0305-1L
			20	Cont	: Coal-ad, prp, ns, dd, fib	0305-3L
4292.00						0306
			85	S/Sst	: w to lt gy	0306-2L
			10	Cont	: Coal-ad, prp, ns, dd, fib	0306-3L
			5	Cont	: blk to drk brn gy, Coal-ad	0306-1L
4296.00						0307
	0.12		85	S/Sst	: w to lt gy	0307-2L
			10	Cont	: Coal-ad, prp, ns, dd, fib	0307-3L
			5	Cont	: blk to drk brn gy, Coal-ad	0307-1L
4304.00						0308
			85	S/Sst	: w to lt gy	0308-2L
			10	Cont	: Coal-ad, prp, ns, dd, fib	0308-3L
			5	Cont	: blk to drk brn gy, Coal-ad	0308-1L
4312.00						0309
	22.47		80	Cont	: blk to brn blk, Coal-ad	0309-4L
			20	S/Sst	: w to lt gy	0309-2L
			tr	Cont	: blk to drk brn gy, Coal-ad	0309-1L
			tr	Cont	: Coal-ad, prp, ns, dd, fib	0309-3L

Table 1 : Lithology description for well NOCS 35/8-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4316.00						0310
				80 Cont : blk to brn blk, Coal-ad		0310-4L
				20 S/Sst : w to lt gy		0310-2L
				tr Cont : blk to drk brn gy, Coal-ad		0310-1L
				tr Cont : Coal-ad, prp, ns, dd, fib		0310-3L
4320.00						0311
	23.69			90 Cont : blk to brn blk, Coal-ad		0311-4L
				10 S/Sst : w to lt gy		0311-2L
				tr Cont : blk to drk brn gy, Coal-ad		0311-1L
				tr Cont : Coal-ad, prp, ns, dd, fib		0311-3L
4328.00						0312
				90 Cont : blk to brn blk, Coal-ad		0312-4L
				10 S/Sst : w to lt gy		0312-2L
				tr Cont : blk to drk brn gy, Coal-ad		0312-1L
				tr Cont : Coal-ad, prp, ns, dd, fib		0312-3L
4332.00						0313
	cvd			60 Sh/Clst: m gy to gy blk		0313-1L
	20.38			40 Cont : blk to brn blk, Coal-ad		0313-4L
				tr S/Sst : w to lt gy		0313-2L
				tr Cont : Coal-ad, prp, ns, dd, fib		0313-3L

Table 2 : Rock-Eval table for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1940.00	cut	Sh/Clst: lt gy to gn gy, brn gy	0.02	0.32	0.38	0.84	0.43	74	88	0.3	0.06	424	0087-1L
2030.00	cut	Sh/Clst: lt gy to m gy to gn gy, brn gy	0.01	0.55	0.48	1.15	0.46	120	104	0.6	0.02	461	0090-1L
2120.00	cut	Sh/Clst: lt gy to m gy to gn gy, brn gy	-	0.44	0.60	0.73	0.65	68	92	0.4	-	428	0093-1L
2210.00	cut	Sh/Clst: lt gy to m gy to gn gy	0.07	1.43	0.46	3.11	0.32	447	144	1.5	0.05	595	0096-1L
2300.00	cut	Sh/Clst: lt gy to m gy	0.15	0.95	0.91	1.04	0.54	176	169	1.1	0.14	405	0099-1L
2390.00	cut	Sh/Clst: lt gy to m gy	0.12	0.68	0.68	1.00	0.49	139	139	0.8	0.15	389	0102-1L
2480.00	cut	Sh/Clst: lt gy to m gy	0.17	1.95	0.41	4.76	0.83	235	49	2.1	0.08	593	0105-1L
2570.00	cut	Sh/Clst: lt gy to m gy	0.10	0.48	0.45	1.07	0.93	52	48	0.6	0.17	427	0108-1L
2660.00	cut	Sh/Clst: lt gy to m gy	0.17	0.70	1.17	0.60	0.30	233	390	0.9	0.20	411	0111-1L
2750.00	cut	Sh/Clst: lt gy to m gy	0.08	0.55	0.39	1.41	0.63	87	62	0.6	0.13	408	0114-1L
2840.00	cut	Sh/Clst: lt gy to m gy	0.12	0.57	0.99	0.58	0.65	88	152	0.7	0.17	430	0117-1L
2928.00	cut	Sh/Clst: lt gy to m gy	0.13	0.48	1.47	0.33	0.71	68	207	0.6	0.21	426	0120-1L
3044.00	cut	Sh/Clst: lt gy to m gy	0.14	0.41	1.04	0.39	0.55	75	189	0.6	0.25	413	0124-1L
3078.00	cut	Sh/Clst: lt gy to m gy	0.14	0.34	1.88	0.18	0.44	77	427	0.5	0.29	416	0128-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3264.00	cut	S/Sst : dsk y brn	0.53	1.41	2.30	0.61	2.32	61	99	1.9	0.27	437	0159-2L
3270.00	cut	Sh/Clst: drk gy to brn blk	1.67	9.17	1.44	6.37	6.24	147	23	10.8	0.15	437	0160-1L
3276.00	cut	S/Sst : dsk y brn	0.66	1.59	1.39	1.14	2.60	61	53	2.3	0.29	441	0161-2L
3282.00	cut	Sh/Clst: drk gy to brn blk	1.88	8.37	1.51	5.54	5.27	159	29	10.3	0.18	440	0162-1L
3288.00	cut	S/Sst : dsk y brn	0.37	0.97	0.67	1.45	1.48	66	45	1.3	0.28	440	0163-2L
3294.00	cut	S/Sst : drk y brn to dsk y brn	0.56	1.32	0.93	1.42	1.29	102	72	1.9	0.30	441	0164-2L
3300.00	cut	S/Sst : drk y brn to dsk y brn, lt gy	0.47	0.80	2.60	0.31	1.17	68	222	1.3	0.37	441	0165-2L
3312.00	cut	S/Sst : drk y brn to dsk y brn, lt gy	0.87	2.34	0.69	3.39	2.31	101	30	3.2	0.27	440	0167-2L
3316.90	ccp	S/Sst : drk y brn to dsk y brn	0.03	0.05	0.17	0.29	0.11	45	155	0.1	0.38	444	0314-1L
3324.00	cut	S/Sst : drk y brn to dsk y brn, lt gy to w	0.02	0.03	0.08	0.38	0.10	30	80	0.1	0.40	367	0169-1L
3336.00	cut	S/Sst : drk y brn to dsk y brn, lt gy to w	0.13	0.26	0.28	0.93	0.48	54	58	0.4	0.33	446	0171-1L
3348.00	cut	S/Sst : drk y brn to dsk y brn, lt gy to w	0.01	0.02	0.10	0.20	0.08	25	125	-	0.33	440	0173-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3360.00	cut	Sh/Clst: drk gy to brn blk	1.03	2.31	1.18	1.96	3.18	73	37	3.3	0.31	441	0175-2L
3366.00	cut	Sh/Clst: drk gy to brn blk	0.74	2.32	1.17	1.98	2.87	81	41	3.1	0.24	446	0176-2L
3372.00	cut	Sh/Clst: drk gy to brn blk	0.93	2.49	1.37	1.82	2.06	121	67	3.4	0.27	445	0177-2L
3378.00	cut	Sh/Clst: drk gy to brn blk	0.59	2.20	1.11	1.98	2.74	80	41	2.8	0.21	444	0178-2L
3384.00	cut	Sh/Clst: drk gy to brn blk	0.74	2.01	0.81	2.48	2.83	71	29	2.8	0.27	444	0179-2L
3390.00	cut	Sh/Clst: drk gy to brn blk	0.54	1.76	0.57	3.09	2.07	85	28	2.3	0.23	445	0180-2L
3396.00	cut	Sh/Clst: brn gy, lt gy	0.61	2.34	1.13	2.07	1.69	138	67	3.0	0.21	441	0181-4L
3402.00	cut	Ca : drk y brn to dsk y brn	0.04	0.13	1.40	0.09	0.57	23	246	0.2	0.24	445	0182-3L
3408.00	cut	Sh/Clst: drk gy to gy blk	0.72	3.62	0.42	8.62	1.71	212	25	4.3	0.17	446	0183-2L
3414.00	cut	Sh/Clst: drk gy to gy blk	0.89	5.23	0.53	9.87	2.12	247	25	6.1	0.15	447	0184-1L
3420.00	cut	Sh/Clst: drk gy to gy blk	0.90	5.21	0.59	8.83	2.12	246	28	6.1	0.15	447	0185-1L
3426.00	cut	Sh/Clst: drk gy to gy blk	0.89	5.53	0.82	6.74	2.29	241	36	6.4	0.14	449	0186-1L
3432.00	cut	Sh/Clst: drk gy to gy blk	0.81	4.75	0.76	6.25	2.13	223	36	5.6	0.15	448	0187-1L
3438.00	cut	Sh/Clst: drk gy to gy blk	0.89	5.16	0.89	5.80	1.97	262	45	6.0	0.15	446	0188-1L
3444.00	cut	Sh/Clst: drk gy to gy blk	0.95	5.56	0.78	7.13	2.08	267	38	6.5	0.15	448	0189-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3450.00	cut	Sh/Clst: drk gy to gy blk	0.76	3.90	0.82	4.76	2.35	166	35	4.7	0.16	449	0190-1L
3456.00	cut	Sh/Clst: drk gy to gy blk	1.12	3.52	1.79	1.97	2.37	149	76	4.6	0.24	448	0191-1L
3462.00	cut	Sh/Clst: drk gy to gy blk	0.77	3.50	1.29	2.71	1.78	197	72	4.3	0.18	448	0192-1L
3468.00	cut	Sh/Clst: drk gy to gy blk	0.95	3.29	0.95	3.46	2.13	154	45	4.2	0.22	448	0193-1L
3474.00	cut	Sh/Clst: drk gy to gy blk	0.91	4.91	0.86	5.71	2.33	211	37	5.8	0.16	446	0194-1L
3480.00	cut	Sh/Clst: drk gy to gy blk	0.98	5.30	1.18	4.49	2.86	185	41	6.3	0.16	449	0195-1L
3486.00	cut	Sh/Clst: drk gy to gy blk	1.03	4.85	1.03	4.71	2.60	187	40	5.9	0.18	449	0196-1L
3490.00	cut	Sh/Clst: drk gy to gy blk	1.92	8.01	1.32	6.07	2.86	280	46	9.9	0.19	446	0197-1L
3496.00	cut	Sh/Clst: drk gy to gy blk	1.36	6.45	1.13	5.71	3.29	196	34	7.8	0.17	445	0198-1L
3502.00	cut	Sh/Clst: drk gy to gy blk	1.83	10.13	0.99	10.23	3.03	334	33	12.0	0.15	445	0199-1L
3508.00	cut	Sh/Clst: drk gy to gy blk	4.03	15.86	0.98	16.18	4.45	356	22	19.9	0.20	444	0200-1L
3514.00	cut	Sh/Clst: drk gy to gy blk	2.27	13.31	1.01	13.18	4.12	323	25	15.6	0.15	446	0201-1L
3520.00	cut	Sh/Clst: drk gy to gy blk	2.14	16.80	1.04	16.15	5.39	312	19	18.9	0.11	442	0202-1L
3526.00	cut	Sh/Clst: drk gy to gy blk	1.32	8.49	1.10	7.72	3.50	243	31	9.8	0.13	443	0203-1L
3532.00	cut	Sh/Clst: drk gy to gy blk	0.91	4.48	1.24	3.61	2.23	201	56	5.4	0.17	446	0204-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3550.00	cut	Sh/Clst: drk gy to gy blk	0.89	4.93	0.70	7.04	2.33	212	30	5.8	0.15	448	0207-1L
3562.00	cut	Sh/Clst: drk gy to gy blk	0.61	2.46	0.67	3.67	1.58	156	42	3.1	0.20	440	0209-1L
3568.00	cut	Sh/Clst: drk gy to gy blk	0.97	4.24	0.39	10.87	2.89	147	13	5.2	0.19	448	0210-1L
3574.00	cut	Sh/Clst: drk gy to gy blk	1.01	3.31	0.63	5.25	2.88	115	22	4.3	0.23	449	0211-1L
3580.00	cut	Sh/Clst: drk gy to gy blk	1.66	4.90	1.20	4.08	3.35	146	36	6.6	0.25	445	0212-1L
3586.00	cut	Sh/Clst: drk gy to gy blk	1.30	3.19	1.15	2.77	2.94	109	39	4.5	0.29	449	0213-1L
3592.00	cut	Sh/Clst: drk gy to gy blk	1.17	3.62	1.22	2.97	3.05	119	40	4.8	0.24	448	0214-1L
3598.00	cut	Sh/Clst: drk gy to gy blk	1.04	3.43	1.25	2.74	3.54	97	35	4.5	0.23	449	0215-1L
3604.00	cut	Sh/Clst: drk gy to gy blk	1.03	4.18	1.47	2.84	4.16	100	35	5.2	0.20	446	0216-1L
3610.00	cut	Sh/Clst: drk gy to gy blk	0.89	2.66	1.26	2.11	3.93	68	32	3.6	0.25	448	0217-1L
3616.00	cut	Sh/Clst: drk gy to gy blk	0.90	3.07	1.63	1.88	2.33	132	70	4.0	0.23	445	0218-1L
3622.00	cut	Sh/Clst: drk gy to gy blk	0.68	1.46	1.40	1.04	4.04	36	35	2.1	0.32	443	0219-1L
3628.00	cut	Sh/Clst: drk gy to gy blk	0.94	2.85	1.20	2.37	4.56	63	26	3.8	0.25	444	0220-1L
3634.00	cut	Sh/Clst: drk gy to gy blk	0.95	2.24	2.55	0.88	4.82	46	53	3.2	0.30	445	0221-1L
3640.00	cut	Sh/Clst: drk gy to gy blk	1.36	2.54	1.99	1.28	4.58	55	43	3.9	0.35	445	0222-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3646.00	cut	Sh/Clst: drk gy to gy blk	0.82	2.66	1.83	1.45	3.95	67	46	3.5	0.24	444	0223-1L
3652.00	cut	Sh/Clst: drk gy to gy blk	0.76	2.51	1.96	1.28	4.72	53	42	3.3	0.23	448	0224-1L
3658.00	cut	Sh/Clst: drk gy to gy blk	0.85	2.41	2.18	1.11	4.64	52	47	3.3	0.26	449	0225-1L
3664.00	cut	Sh/Clst: drk gy to gy blk	0.83	1.95	2.38	0.82	3.62	54	66	2.8	0.30	449	0226-1L
3667.70	ccp	S/Sst : lt gy to lt y gy	1.71	0.30	0.54	0.56	0.39	77	138	2.0	0.85	422	0315-1L
3672.70	ccp	S/Sst : lt gy	0.92	0.15	0.37	0.41	0.20	75	185	1.1	0.86	417	0316-1L
3677.70	ccp	S/Sst : lt gy	1.02	0.27	0.47	0.57	0.41	66	115	1.3	0.79	416	0317-1L
3682.70	ccp	S/Sst : lt gy	1.19	0.88	0.65	1.35	0.82	107	79	2.1	0.57	437	0318-1L
3687.55	ccp	S/Sst : lt gy	0.55	0.78	0.87	0.90	0.86	91	101	1.3	0.41	442	0319-1L
3692.70	ccp	Coal : blk	11.42	139.28	3.28	42.46	76.59	182	4	150.7	0.08	451	0320-1L
3697.00	ccp	S/Sst : lt gy to brn gy	0.98	0.20	0.42	0.48	0.28	71	150	1.2	0.83	418	0321-1L
3702.50	ccp	S/Sst : lt gy	0.87	0.36	0.35	1.03	0.24	150	146	1.2	0.71	428	0322-1L
3707.50	ccp	S/Sst : lt gy	0.64	0.41	0.30	1.37	0.17	241	176	1.0	0.61	443	0323-1L
3712.60	ccp	Sltst : lt gy	0.13	0.09	1.33	0.07	0.24	38	554	0.2	0.59	447	0324-1L
3717.70	ccp	S/Sst : lt gy	0.41	0.26	0.20	1.30	0.50	52	40	0.7	0.61	450	0325-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3722.60	ccp	S/Sst : lt gy	1.17	0.44	0.20	2.20	0.37	119	54	1.6	0.73	420	0326-1L
3727.60	ccp	Sltst : lt gy to lt y gy	0.87	0.58	0.33	1.76	0.65	89	51	1.5	0.60	422	0327-1L
3733.05	ccp	Sh/Clst: lt gy to drk gy	0.21	0.57	0.14	4.07	1.44	40	10	0.8	0.27	450	0328-1L
3738.70	ccp	Sltst : lt gy to lt y gy	0.18	0.45	0.47	0.96	0.67	67	70	0.6	0.29	433	0329-1L
3743.76	ccp	S/Sst : lt gy	0.20	0.19	0.27	0.70	0.26	73	104	0.4	0.51	448	0330-1L
3747.20	ccp	Sh/Clst: m gy	0.25	1.12	0.73	1.53	1.89	59	39	1.4	0.18	453	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	0.25	1.65	0.83	1.99	1.73	95	48	1.9	0.13	455	0332-1L
3760.00	cut	Coal : blk	12.22	106.22	5.55	19.14	65.31	163	8	118.4	0.10	457	0227-1L
3772.00	cut	S/Sst : lt gy	0.07	0.10	0.41	0.24	0.17	59	241	0.2	0.41	442	0229-2L
3790.00	cut	S/Sst : w to lt gy	0.21	0.44	0.49	0.90	0.70	63	70	0.6	0.32	447	0232-2L
3802.00	cut	Coal : blk	15.45	118.48	2.42	48.96	53.47	222	5	133.9	0.12	458	0234-1L
3814.00	cut	S/Sst : w to lt gy	0.16	0.16	0.35	0.46	0.34	47	103	0.3	0.50	452	0236-2L
3820.00	cut	S/Sst : w to lt gy	0.14	0.30	1.49	0.20	0.27	111	552	0.4	0.32	438	0237-2L
3850.00	cut	S/Sst : w to lt gy	0.13	0.11	0.51	0.22	0.22	50	232	0.2	0.54	442	0242-2L
3862.00	cut	S/Sst : w to lt gy to drk gy	0.16	0.13	0.33	0.39	0.21	62	157	0.3	0.55	454	0244-2L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3886.00	cut	Sh/Clst: m gy to drk gy	1.07	1.00	1.28	0.78	2.40	42	53	2.1	0.52	451	0248-5L
3892.00	cut	Sh/Clst: m gy to drk gy	0.86	1.66	0.85	1.95	2.33	71	36	2.5	0.34	449	0249-5L
3922.00	cut	Sh/Clst: m gy to drk gy	0.63	0.73	1.08	0.68	1.17	62	92	1.4	0.46	449	0254-4L
3928.00	cut	S/Sst : m gy to drk gy	0.51	0.71	0.63	1.13	1.30	55	48	1.2	0.42	447	0255-2L
3934.00	cut	Cont : blk	4.71	36.60	49.81	0.73	26.69	137	187	41.3	0.11	428	0256-1L
3940.00	cut	S/Sst : w to lt gy to brn gy	0.51	0.62	0.63	0.98	0.46	135	137	1.1	0.45	451	0257-2L
3946.00	cut	Sh/Clst: m gy to drk gy	1.79	2.92	0.96	3.04	2.56	114	38	4.7	0.38	451	0258-4L
3958.00	cut	S/Sst : w to lt gy to brn gy	0.53	0.64	0.39	1.64	0.45	142	87	1.2	0.45	449	0260-2L
3964.00	cut	S/Sst : w to lt gy to brn gy	0.25	0.22	0.30	0.73	0.16	138	188	0.5	0.53	441	0261-2L
3976.00	cut	Cont : blk to brn blk	4.91	35.90	49.01	0.73	24.22	148	202	40.8	0.12	427	0263-1L
3988.00	cut	Cont : blk to brn blk	6.22	54.52	43.58	1.25	29.53	185	148	60.7	0.10	433	0265-1L
4000.00	cut	Cont : blk to brn blk	4.83	52.83	46.16	1.14	43.70	121	106	57.7	0.08	431	0267-1L
4016.00	cut	S/Sst : w to lt gy	0.98	0.68	0.36	1.89	0.21	324	171	1.7	0.59	432	0269-2L
4030.00	cut	Cont : blk to brn blk	7.23	44.76	46.15	0.97	36.94	121	125	52.0	0.14	430	0271-1L
4034.00	cut	Cont : blk to gy blk	0.12	0.09	0.54	0.17	0.15	60	360	0.2	0.57	346	0272-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4050.00	cut	S/Sst : w to lt gy	0.16	0.37	0.34	1.09	0.17	218	200	0.5	0.30	436	0274-2L
4054.00	cut	S/Sst : w to lt gy	0.18	0.14	0.40	0.35	0.08	175	500	0.3	0.56	408	0275-2L
4062.00	cut	Cont : blk to gy blk	0.10	0.10	0.13	0.77	0.26	38	50	0.2	0.50	335	0276-1L
4074.00	cut	Cont : blk to gy blk	0.27	0.23	0.27	0.85	0.35	66	77	0.5	0.54	331	0278-1L
4086.00	cut	Cont : blk to drk brn gy	0.17	-	0.13	-	0.53	-	25	0.2	1.00	291	0280-1L
4094.00	cut	Cont : blk to drk brn gy	0.26	0.07	0.26	0.27	0.59	12	44	0.3	0.79	436	0282-1L
4106.00	cut	Cont : blk to drk brn gy	0.26	0.15	0.22	0.68	0.53	28	42	0.4	0.63	367	0284-1L
4138.00	cut	Cont : blk to drk brn gy	0.16	0.09	0.13	0.69	0.45	20	29	0.3	0.64	329	0288-1L
4152.00	cut	Cont : blk to drk brn gy	9.68	53.48	41.35	1.29	25.52	210	162	63.2	0.15	432	0290-1L
4168.00	cut	Cont : blk to drk brn gy	8.59	49.22	29.85	1.65	28.03	176	106	57.8	0.15	426	0293-1L
4180.00	cut	S/Sst : w to lt gy	0.86	0.55	0.46	1.20	0.26	212	177	1.4	0.61	425	0295-2L
4228.00	cut	Cont : blk to drk brn gy	12.31	60.29	40.97	1.47	39.07	154	105	72.6	0.17	435	0299-1L
4248.00	cut	S/Sst : w to lt gy	0.54	0.12	0.39	0.31	0.16	75	244	0.7	0.82	406	0301-2L
4260.00	cut	S/Sst : w to lt gy	0.19	0.06	0.25	0.24	0.06	100	417	0.3	0.76	374	0303-2L
4284.00	cut	S/Sst : w to lt gy	0.70	0.33	0.33	1.00	0.16	206	206	1.0	0.68	427	0305-2L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4296.00	cut	S/Sst : w to lt gy	0.26	0.22	0.32	0.69	0.12	183	267	0.5	0.54	422	0307-2L
4312.00	cut	Cont : blk to brn blk	7.82	61.30	54.34	1.13	22.47	273	242	69.1	0.11	426	0309-4L
4320.00	cut	Cont : blk to brn blk	6.84	54.21	48.94	1.11	23.69	229	207	61.0	0.11	424	0311-4L
4332.00	cut	Cont : blk to brn blk	7.73	45.28	45.47	1.00	20.38	222	223	53.0	0.15	424	0313-4L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3102.00	cut	Sh/Clst: drk gy to brn blk	3.25	13.83	38.27	44.66	15.37	0132-2L
3138.00	cut	Sh/Clst: drk gy to brn blk	2.53	13.23	32.65	51.60	18.95	0138-1L
3156.00	cut	Sh/Clst: drk gy to brn blk	3.07	12.43	32.78	51.73	16.93	0141-1L
3192.00	cut	Sh/Clst: drk gy to brn blk	3.54	21.31	27.89	47.26	13.70	0147-1L
3210.00	cut	S/Sst : drk gy to dsk y brn	6.42	17.88	36.28	38.48	0.83	0150-2L
3222.00	cut	Sh/Clst: drk gy to brn blk	5.36	18.35	31.70	44.60	15.19	0152-1L
3234.00	cut	Sh/Clst: drk gy to brn blk	5.03	15.69	31.69	47.60	13.90	0154-1L
3264.00	cut	S/Sst : dsk y brn	8.83	22.36	39.29	29.52	1.41	0159-2L
3276.00	cut	S/Sst : dsk y brn	7.19	23.73	40.12	28.97	1.59	0161-2L
3282.00	cut	Sh/Clst: drk gy to brn blk	5.62	13.55	35.59	45.24	8.37	0162-1L
3288.00	cut	S/Sst : dsk y brn	9.12	20.63	37.79	32.46	0.97	0163-2L
3294.00	cut	S/Sst : drk v brn to dsk v brn	7.65	18.98	38.32	35.05	1.32	0164-2L
3300.00	cut	S/Sst : drk y brn to dsk y brn, lt gy	8.47	26.81	36.62	28.10	0.80	0165-2L
3312.00	cut	S/Sst : drk y brn to dsk y brn, lt gy	10.19	15.25	32.81	41.75	2.34	0167-2L

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3360.00	cut	Sh/Clst: drk gy to brn blk	6.85	20.73	45.21	27.21	2.31	0175-2L
3372.00	cut	Sh/Clst: drk gy to brn blk	5.10	15.84	33.49	45.58	2.49	0177-2L
3390.00	cut	Sh/Clst: drk gy to brn blk	9.75	25.87	45.81	18.58	1.76	0180-2L
3420.00	cut	Sh/Clst: drk gy to gy blk	4.62	14.07	39.92	41.39	5.21	0185-1L
3444.00	cut	Sh/Clst: drk gy to gy blk	3.59	10.29	47.82	38.30	5.56	0189-1L
3456.00	cut	Sh/Clst: drk gy to gy blk	5.48	20.31	46.55	27.66	3.52	0191-1L
3486.00	cut	Sh/Clst: drk gy to gy blk	4.04	18.25	41.77	35.47	4.85	0196-1L
3520.00	cut	Sh/Clst: drk gy to gy blk	1.99	12.35	36.10	49.57	16.80	0202-1L
3574.00	cut	Sh/Clst: drk gy to gy blk	4.79	22.83	45.43	26.95	3.31	0211-1L
3672.70	ccp	S/Sst : lt gy	0.85	6.52	13.43	79.20	0.15	0316-1L
3677.70	ccp	S/Sst : lt gy	3.45	13.94	24.90	57.11	0.27	0317-1L
3682.70	ccp	S/Sst : lt av	9.52	15.06	33.23	41.78	0.88	0318-1L
3687.55	ccp	S/Sst : lt gy	11.05	23.08	39.15	26.72	0.78	0319-1L
3692.70	ccp	Coal : blk	9.59	8.94	24.97	55.88	139.28	0320-1L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3697.00	ccp	S/Sst : lt gy to brn gy	1.20	6.95	20.39	71.46	0.20	0321-1L
3702.50	ccp	S/Sst : lt gy	2.69	12.13	29.23	55.96	0.36	0322-1L
3707.50	ccp	S/Sst : lt gy	7.95	18.97	31.31	41.14	0.41	0323-1L
3717.70	ccp	S/Sst : lt gy	8.74	28.70	36.30	26.27	0.26	0325-1L
3722.60	ccp	S/Sst : lt gy	4.18	14.34	31.15	50.15	0.44	0326-1L
3743.76	ccp	S/Sst : lt gy	10.78	44.15	32.06	13.01	0.19	0330-1L
3747.20	ccp	Sh/Clst: m gy	15.17	27.30	38.18	19.35	1.12	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	13.50	31.91	41.18	13.41	1.65	0332-1L
3790.00	cut	S/Sst : w to lt gy	11.28	26.62	38.44	23.66	0.44	0232-2L
3886.00	cut	Sh/Clst: m gy to drk gy	8.86	33.66	36.81	20.68	1.00	0248-5L
3928.00	cut	S/Sst : m gy to drk gy	7.33	31.78	36.38	24.38	0.71	0255-2L
3940.00	cut	S/Sst : w to lt gy to brn gy	7.27	28.16	40.93	23.65	0.62	0257-2L
3958.00	cut	S/Sst : w to lt gy to brn gy	4.57	19.29	33.67	41.50	0.64	0260-2L
4016.00	cut	S/Sst : w to lt gy	0.89	8.22	14.17	76.72	0.68	0269-2L

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
4180.00	cut	S/Sst : w to lt gy	1.87	10.98	15.40	71.75	0.55	0295-2L
4248.00	cut	S/Sst : w to lt gy	2.03	13.71	18.03	66.24	0.12	0301-2L
4284.00	cut	S/Sst : w to lt gy	1.68	10.37	18.22	69.74	0.33	0305-2L
4296.00	cut	S/Sst : w to lt gy	1.67	14.24	27.88	56.21	0.22	0307-2L

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
3102.00	com	Composite sample - see table 4 e	2.6	10.9	4.2	3.0	1.1	2.7	7.1	3.8	4.46	0333-0B
3138.00	com	Composite sample - see table 4 e	9.9	64.6	24.1	19.4	3.1	18.0	43.5	21.1	6.45	0334-0B
3156.00	com	Composite sample - see table 4 e	7.6	39.5	15.2	12.4	3.5	8.4	27.6	11.9	5.87	0335-0B
3198.00	com	Composite sample - see table 4 e	8.5	37.2	12.9	12.9	2.9	8.5	25.8	11.4	5.04	0336-0B
3222.00	com	Composite sample - see table 4 e	6.1	32.2	11.3	11.3	6.8	2.9	22.5	9.7	5.50	0337-0B
3240.00	com	Composite sample - see table 4 e	8.2	38.2	8.7	8.9	8.0	12.6	17.6	20.5	6.14	0338-0B
3276.00	com	Composite sample - see table 4 e	2.8	6.0	1.6	2.3	1.5	0.6	3.9	2.1	2.78	0339-0B
3300.00	com	Composite sample - see table 4 e	1.3	2.5	0.6	0.8	0.2	1.0	1.4	1.1	1.61	0340-0B
3426.00	com	Composite sample - see table 4 e	2.9	7.5	1.6	1.2	0.5	4.2	2.9	4.7	2.40	0341-0B
3456.00	com	Composite sample - see table 4 e	2.5	3.5	0.8	0.3	0.1	2.4	1.1	2.5	2.41	0342-0B
3486.00	com	Composite sample - see table 4 e	3.6	11.7	3.6	1.9	1.0	5.2	5.5	6.2	2.80	0343-0B
3574.00	com	Composite sample - see table 4 e	1.2	5.2	0.8	0.3	0.4	3.8	1.1	4.2	2.38	0344-0B
3672.70	ccp	S/Sst : lt gy	10.3	18.7	13.1	3.9	0.3	1.4	17.0	1.7	0.23	0316-1L
3677.70	ccp	S/Sst : lt gy	10.0	19.7	14.1	3.9	0.5	1.3	17.9	1.8	0.32	0317-1L

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
3682.70	ccp	S/Sst : lt gy	10.0	22.7	17.1	4.2	1.0	0.3	21.4	1.3	0.30	0318-1L
3687.55	ccp	S/Sst : lt gy	10.7	7.5	5.3	1.2	0.4	0.7	6.5	1.0	0.33	0319-1L
3692.70	ccp	Coal : blk	4.2	140.2	6.0	15.6	117.0	1.6	21.6	118.6	63.60	0320-1L
3697.00	ccp	S/Sst : lt gy to brn gy	10.1	21.6	13.8	4.2	1.5	2.1	18.0	3.6	0.29	0321-1L
3702.50	ccp	S/Sst : lt gy	10.4	23.0	17.3	4.8	0.8	0.2	22.0	1.0	0.30	0322-1L
3707.50	ccp	S/Sst : lt gy	10.3	15.4	9.8	3.0	1.7	0.8	12.9	2.5	0.25	0323-1L
3717.70	ccp	S/Sst : lt gy	10.3	9.3	6.8	1.6	0.6	0.3	8.4	0.9	0.56	0325-1L
3722.60	ccp	S/Sst : lt gy	10.3	25.7	17.2	4.3	0.9	3.3	21.5	4.2	0.26	0326-1L
3743.76	ccp	S/Sst : lt gy	10.1	3.3	1.2	1.0	0.4	0.7	2.3	1.0	0.29	0330-1L
3747.20	ccp	Sh/Clst: m gy	10.4	10.2	4.5	2.3	1.9	1.6	6.8	3.5	0.92	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	10.1	4.5	1.5	1.0	1.2	0.8	2.5	2.0	0.93	0332-1L
3892.00	com	Composite sample - see table 4 e	1.8	4.2	1.2	0.3	0.3	2.4	1.5	2.7	1.91	0345-0B
3964.00	com	Composite sample - see table 4 e	1.8	1.0	0.2	0.2	0.1	0.6	0.3	0.7	0.47	0346-0B

Table 4 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3102.00	com	Composite sample - see table 4 e	4208	1602	1154	424	1027	2756	1451	0333-0B
3138.00	com	Composite sample - see table 4 e	6531	2436	1964	313	1816	4401	2130	0334-0B
3156.00	com	Composite sample - see table 4 e	5204	2001	1640	461	1101	3641	1562	0335-0B
3198.00	com	Composite sample - see table 4 e	4391	1524	1524	342	1001	3048	1343	0336-0B
3222.00	com	Composite sample - see table 4 e	5304	1855	1855	1120	474	3710	1594	0337-0B
3240.00	com	Composite sample - see table 4 e	4669	1067	1090	977	1534	2157	2512	0338-0B
3276.00	com	Composite sample - see table 4 e	2181	599	818	545	218	1418	763	0339-0B
3300.00	com	Composite sample - see table 4 e	1879	451	563	150	714	1015	864	0340-0B
3426.00	com	Composite sample - see table 4 e	2595	570	415	173	1435	986	1608	0341-0B
3456.00	com	Composite sample - see table 4 e	1422	304	121	40	955	426	995	0342-0B
3486.00	com	Composite sample - see table 4 e	3259	1005	534	278	1440	1540	1718	0343-0B
3574.00	com	Composite sample - see table 4 e	4193	604	241	322	3024	846	3346	0344-0B
3672.70	ccp	S/Sst : lt gy	1824	1281	378	29	134	1660	163	0316-1L
3677.70	ccp	S/Sst : lt gy	1966	1402	387	49	126	1789	176	0317-1L

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3682.70	ccp	S/Sst : lt gy	2265	1710	422	99	32	2132	132	0318-1L
3687.55	ccp	S/Sst : lt gy	703	492	112	37	60	605	98	0319-1L
3692.70	ccp	Coal : blk	33460	1431	3735	27923	369	5167	28293	0320-1L
3697.00	ccp	S/Sst : lt gy to brn gy	2138	1369	410	148	209	1780	358	0321-1L
3702.50	ccp	S/Sst : lt gy	2203	1652	455	76	18	2108	94	0322-1L
3707.50	ccp	S/Sst : lt gy	1498	954	296	165	81	1250	247	0323-1L
3717.70	ccp	S/Sst : lt gy	905	657	160	58	29	817	87	0325-1L
3722.60	ccp	S/Sst : lt gy	2497	1670	422	87	316	2093	404	0326-1L
3743.76	ccp	S/Sst : lt gy	326	118	103	39	64	222	103	0330-1L
3747.20	ccp	Sh/Clst: m gy	984	434	217	183	149	651	333	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	444	148	103	118	74	251	192	0332-1L
3892.00	com	Composite sample - see table 4 e	2346	670	167	167	1340	837	1508	0345-0B
3964.00	com	Composite sample - see table 4 e	546	81	81	54	327	163	382	0346-0B

Table 4 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3102.00	com	Composite sample - see table 4 e	94.36	35.93	25.88	9.52	23.03	61.81	32.55	0333-0B
3138.00	com	Composite sample - see table 4 e	101.27	37.78	30.46	4.86	28.17	68.24	33.03	0334-0B
3156.00	com	Composite sample - see table 4 e	88.66	34.09	27.94	7.86	18.76	62.04	26.62	0335-0B
3198.00	com	Composite sample - see table 4 e	87.14	30.24	30.24	6.79	19.86	60.48	26.66	0336-0B
3222.00	com	Composite sample - see table 4 e	96.45	33.73	33.73	20.37	8.63	67.46	29.00	0337-0B
3240.00	com	Composite sample - see table 4 e	76.06	17.38	17.76	15.93	24.99	35.14	40.92	0338-0B
3276.00	com	Composite sample - see table 4 e	78.48	21.58	29.43	19.62	7.85	51.01	27.47	0339-0B
3300.00	com	Composite sample - see table 4 e	116.75	28.02	35.03	9.34	44.37	63.05	53.71	0340-0B
3426.00	com	Composite sample - see table 4 e	108.13	23.79	17.30	7.21	59.83	41.09	67.04	0341-0B
3456.00	com	Composite sample - see table 4 e	59.04	12.65	5.06	1.69	39.64	17.71	41.33	0342-0B
3486.00	com	Composite sample - see table 4 e	116.39	35.91	19.10	9.95	51.43	55.01	61.38	0343-0B
3574.00	com	Composite sample - see table 4 e	176.20	25.41	10.17	13.55	127.07	35.58	140.62	0344-0B
3672.70	ccp	S/Sst : lt gy	793.21	557.37	164.58	12.73	58.54	721.95	71.26	0316-1L
3677.70	ccp	S/Sst : lt gy	614.40	438.19	121.01	15.59	39.61	559.19	55.20	0317-1L

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3682.70	ccp	S/Sst : lt gy	755.16	570.19	140.72	33.27	10.98	710.91	44.24	0318-1L
3687.55	ccp	S/Sst : lt gy	213.20	149.24	34.11	11.37	18.48	183.35	29.85	0319-1L
3692.70	ccp	Coal : blk	52.61	2.25	5.87	43.91	0.58	8.12	44.49	0320-1L
3697.00	ccp	S/Sst : lt gy to brn gy	737.45	472.17	141.69	51.21	72.38	613.86	123.59	0321-1L
3702.50	ccp	S/Sst : lt gy	734.36	550.77	151.98	25.54	6.07	702.75	31.61	0322-1L
3707.50	ccp	S/Sst : lt gy	599.22	381.71	118.68	66.15	32.68	500.39	98.83	0323-1L
3717.70	ccp	S/Sst : lt gy	161.71	117.37	28.69	10.43	5.22	146.06	15.65	0325-1L
3722.60	ccp	S/Sst : lt gy	960.60	642.52	162.59	33.64	121.85	805.11	155.49	0326-1L
3743.76	ccp	S/Sst : lt gy	112.67	40.97	35.85	13.66	22.19	76.82	35.85	0330-1L
3747.20	ccp	Sh/Clst: m gy	107.02	47.21	23.61	19.93	16.26	70.82	36.20	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	47.77	15.92	11.15	12.74	7.96	27.07	20.70	0332-1L
3892.00	com	Composite sample - see table 4 e	122.85	35.10	8.77	8.77	70.20	43.87	78.97	0345-0B
3964.00	com	Composite sample - see table 4 e	116.27	17.44	17.44	11.63	69.76	34.88	81.39	0346-0B

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
3102.00	com	Composite sample - see table 4 e	38.07	27.43	10.09	24.40	65.50	34.50	138.80	189.89	0333-0B
3138.00	com	Composite sample - see table 4 e	37.31	30.08	4.80	27.82	67.38	32.62	124.04	206.60	0334-0B
3156.00	com	Composite sample - see table 4 e	38.46	31.52	8.86	21.16	69.97	30.03	122.01	233.05	0335-0B
3198.00	com	Composite sample - see table 4 e	34.70	34.70	7.80	22.80	69.41	30.59	100.00	226.89	0336-0B
3222.00	com	Composite sample - see table 4 e	34.97	34.97	21.12	8.94	69.94	30.06	100.00	232.64	0337-0B
3240.00	com	Composite sample - see table 4 e	22.85	23.35	20.94	32.85	46.20	53.80	97.87	85.89	0338-0B
3276.00	com	Composite sample - see table 4 e	27.50	37.50	25.00	10.00	65.00	35.00	73.33	185.71	0339-0B
3300.00	com	Composite sample - see table 4 e	24.00	30.00	8.00	38.00	54.00	46.00	80.00	117.39	0340-0B
3426.00	com	Composite sample - see table 4 e	22.00	16.00	6.67	55.33	38.00	62.00	137.50	61.29	0341-0B
3456.00	com	Composite sample - see table 4 e	21.43	8.57	2.86	67.14	30.00	70.00	250.00	42.86	0342-0B
3486.00	com	Composite sample - see table 4 e	30.85	16.41	8.55	44.19	47.26	52.74	188.02	89.63	0343-0B
3574.00	com	Composite sample - see table 4 e	14.42	5.77	7.69	72.12	20.19	79.81	250.00	25.30	0344-0B
3672.70	ccp	S/Sst : lt gy	70.27	20.75	1.60	7.38	91.02	8.98	338.66	1013.10	0316-1L
3677.70	ccp	S/Sst : lt gy	71.32	19.70	2.54	6.45	91.02	8.98	362.11	1012.99	0317-1L

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
3682.70	ccp	S/Sst : lt gy	75.51	18.63	4.41	1.45	94.14	5.86	405.20	1606.76	0318-1L
3687.55	ccp	S/Sst : lt gy	70.00	16.00	5.33	8.67	86.00	14.00	437.50	614.29	0319-1L
3692.70	ccp	Coal : blk	4.28	11.16	83.45	1.11	15.44	84.56	38.34	18.26	0320-1L
3697.00	ccp	S/Sst : lt gy to brn gy	64.03	19.21	6.94	9.81	83.24	16.76	333.25	496.68	0321-1L
3702.50	ccp	S/Sst : lt gy	75.00	20.70	3.48	0.83	95.70	4.30	362.39	2223.23	0322-1L
3707.50	ccp	S/Sst : lt gy	63.70	19.81	11.04	5.45	83.51	16.49	321.64	506.30	0323-1L
3717.70	ccp	S/Sst : lt gy	72.58	17.74	6.45	3.23	90.32	9.68	409.09	933.33	0325-1L
3722.60	ccp	S/Sst : lt gy	66.89	16.93	3.50	12.68	83.81	16.19	395.17	517.79	0326-1L
3743.76	ccp	S/Sst : lt gy	36.36	31.82	12.12	19.70	68.18	31.82	114.29	214.29	0330-1L
3747.20	ccp	Sh/Clst: m gy	44.12	22.06	18.63	15.20	66.18	33.82	200.00	195.65	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	33.33	23.33	26.67	16.67	56.67	43.33	142.86	130.77	0332-1L
3892.00	com	Composite sample - see table 4 e	28.57	7.14	7.14	57.14	35.71	64.29	400.00	55.56	0345-0B
3964.00	com	Composite sample - see table 4 e	15.00	15.00	10.00	60.00	30.00	70.00	100.00	42.86	0346-0B

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
3096.00	3102.00	com	0333-0B is composed of:	3096.00	cut	Sh/Clst: drk gy to brn blk	0131-2L
				3102.00	cut	Sh/Clst: drk gy to brn blk	0132-2L
3132.00	3138.00	com	0334-0B is composed of:	3132.00	cut	Sh/Clst: drk gy to brn blk	0137-1L
				3138.00	cut	Sh/Clst: drk gy to brn blk	0138-1L
3150.00	3156.00	com	0335-0B is composed of:	3150.00	cut	Sh/Clst: drk gy to brn blk	0140-1L
				3156.00	cut	Sh/Clst: drk gy to brn blk	0141-1L
3192.00	3198.00	com	0336-0B is composed of:	3192.00	cut	Sh/Clst: drk gy to brn blk, slt, mic	0147-1L
				3198.00	cut	Sh/Clst: drk gy to brn blk, slt, mic	0148-1L
3216.00	3222.00	com	0337-0B is composed of:	3216.00	cut	Sh/Clst: drk gy to brn blk, slt, mic	0151-1L
				3222.00	cut	Sh/Clst: drk gy to brn blk, slt, mic	0152-1L
3234.00	3240.00	com	0338-0B is composed of:	3234.00	cut	Sh/Clst: drk gy to brn blk, slt, mic	0154-1L
				3240.00	cut	Sh/Clst: drk gy to brn blk, slt, mic	0155-1L
3264.00	3276.00	com	0339-0B is composed of:	3264.00	cut	S/Sst : dsk y brn, calc, cly, mic, cly, cem	0159-2L
				3276.00	cut	S/Sst : dsk y brn, calc, cly, mic, cem	0161-2L

Depth unit of measure: m

NOTE: Depths shown in tables 4 a to d 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>
3294.00	3300.00	com	0340-0B is composed of:	3294.00	cut	S/Sst : drk y brn to dsk y brn, calc, cly, mic, dol, cem	0164-2L
				3300.00	cut	S/Sst : drk y brn to dsk y brn, lt gy, calc, cly, mic, dol, cem	0165-2L
3414.00	3426.00	com	0341-0B is composed of:	3414.00	cut	Sh/Clst: drk gy to gy blk, slt	0184-1L
				3420.00	cut	Sh/Clst: drk gy to gy blk, slt	0185-1L
				3426.00	cut	Sh/Clst: drk gy to gy blk, slt	0186-1L
3450.00	3456.00	com	0342-0B is composed of:	3450.00	cut	Sh/Clst: drk gy to gy blk, slt	0190-1L
				3456.00	cut	Sh/Clst: drk gy to gy blk, slt	0191-1L
3480.00	3486.00	com	0343-0B is composed of:	3480.00	cut	Sh/Clst: drk gy to gy blk, slt	0195-1L
				3486.00	cut	Sh/Clst: drk gy to gy blk, slt	0196-1L
3568.00	3574.00	com	0344-0B is composed of:	3568.00	cut	Sh/Clst: drk gy to gy blk, slt	0210-1L
				3574.00	cut	Sh/Clst: drk gy to gy blk, slt	0211-1L
3886.00	3892.00	com	0345-0B is composed of:	3886.00	cut	Sh/Clst: m gy to drk gy, slt	0248-5L
				3892.00	cut	Sh/Clst: m gy to drk gy, slt	0249-5L
3940.00	3964.00	com	0346-0B is composed of:	3940.00	cut	S/Sst : w to lt gy to brn gy	0257-2L
				3958.00	cut	S/Sst : w to lt gy to brn gy	0260-2L
				3964.00	cut	S/Sst : w to lt gy to brn gy	0261-2L

Table 5 : Saturated Hydrocarbon Ratios for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	Pristane nC17	Pristane Phytane	Pristane + Phytane nC17 + nC18	Phytane nC18	CPI	Sample
3102.00	com	bulk	1.16	1.83	0.96	0.72	1.01	0333-0B
3138.00	com	bulk	1.05	1.55	0.91	0.76	1.01	0334-0B
3156.00	com	bulk	1.12	1.87	0.95	0.75	1.10	0335-0B
3198.00	com	bulk	1.37	1.94	1.11	0.82	1.03	0336-0B
3222.00	com	bulk	1.13	2.44	0.88	0.56	1.09	0337-0B
3240.00	com	bulk	1.18	2.38	0.89	0.57	1.07	0338-0B
3276.00	com	bulk	0.84	2.75	0.62	0.36	1.13	0339-0B
3300.00	com	bulk	0.62	2.46	0.48	0.31	1.12	0340-0B
3426.00	com	bulk	0.85	2.89	0.61	0.34	1.16	0341-0B
3456.00	com	bulk	0.85	3.27	0.59	0.29	1.18	0342-0B
3486.00	com	bulk	0.76	3.35	0.54	0.27	1.21	0343-0B
3574.00	com	bulk	0.70	2.59	0.50	0.29	1.18	0344-0B
3672.70	ccp	S/Sst : lt gy	0.45	2.44	0.32	0.18	1.09	0316-1L
3677.70	ccp	S/Sst : lt gy	0.47	2.57	0.33	0.19	1.11	0317-1L

Table 5 : Saturated Hydrocarbon Ratios for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
3682.70	ccp	S/Sst : lt gy	0.48	2.81	0.34	0.18	1.09	0318-1L
3687.55	ccp	S/Sst : lt gy	0.50	3.19	0.36	0.19	1.11	0319-1L
3692.70	ccp	Coal : blk	2.03	3.95	1.31	0.55	0.99	0320-1L
3697.00	ccp	S/Sst : lt gy to brn gy	0.42	2.23	0.30	0.19	1.06	0321-1L
3702.50	ccp	S/Sst : lt gy	0.45	2.50	0.33	0.20	1.06	0322-1L
3707.50	ccp	S/Sst : lt gy	0.46	2.46	0.34	0.21	1.12	0323-1L
3717.70	ccp	S/Sst : lt gy	0.91	3.92	0.56	0.22	1.23	0325-1L
3722.60	ccp	S/Sst : lt gy	0.44	2.39	0.32	0.20	1.09	0326-1L
3743.76	ccp	S/Sst : lt gy	0.58	2.91	0.43	0.25	1.05	0330-1L
3747.20	ccp	Sh/Clst: m gy	0.85	6.35	0.54	0.16	1.20	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	0.95	4.69	0.67	0.28	1.09	0332-1L
3892.00	com	bulk	0.74	2.14	0.61	0.43	1.31	0345-0B
3964.00	com	bulk	0.50	1.47	0.43	0.35	1.25	0346-0B

Table 6 : Aromatic Hydrocarbon Ratios for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3102.00	com	bulk	0.97	1.54	0.06	0.72	0.53	0.52	0.72	0.30	0.67	0.31	0333-0B
3138.00	com	bulk	1.08	1.53	0.10	0.79	0.52	0.52	0.71	0.32	1.02	-	0334-0B
3156.00	com	bulk	1.11	1.50	0.10	0.78	0.55	0.55	0.73	0.32	-	-	0335-0B
3198.00	com	bulk	1.09	1.56	0.09	0.66	0.50	0.51	0.70	0.29	1.62	-	0336-0B
3222.00	com	bulk	1.18	1.73	0.10	0.63	0.46	0.48	0.68	0.25	1.98	1.04	0337-0B
3240.00	com	bulk	1.22	1.68	0.15	0.57	0.44	0.45	0.66	0.22	1.79	0.88	0338-0B
3276.00	com	bulk	1.19	2.07	0.45	0.80	0.55	0.59	0.73	0.21	6.41	-	0339-0B
3300.00	com	bulk	1.02	2.24	0.32	0.83	0.53	0.59	0.72	0.17	-	-	0340-0B
3426.00	com	bulk	0.97	1.73	0.07	0.70	0.52	0.57	0.71	0.14	-	-	0341-0B
3456.00	com	bulk	0.91	1.99	0.04	0.62	0.45	0.48	0.67	-	-	-	0342-0B
3486.00	com	bulk	1.01	1.65	0.06	0.69	0.52	0.56	0.71	0.14	-	-	0343-0B
3574.00	com	bulk	0.94	1.62	0.08	0.73	0.50	0.54	0.70	0.11	-	-	0344-0B
3672.70	ccp	S/Sst : lt gy	-	0.74	-	1.15	0.77	0.92	0.86	-	-	-	0316-1L
3677.70	ccp	S/Sst : lt gy	0.83	1.41	-	1.04	0.74	0.83	0.84	0.27	-	-	0317-1L
3682.70	ccp	S/Sst : lt gy	0.63	1.18	-	0.92	0.67	0.71	0.80	0.26	-	-	0318-1L

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3687.55	ccp	S/Sst : lt gy	-	1.43	0.08	0.95	0.61	0.68	0.77	-	-	-	0319-1L
3692.70	ccp	Coal : blk	1.37	2.86	0.45	0.95	0.58	0.69	0.75	0.12	-	-	0320-1L
3697.00	ccp	S/Sst : lt gy to brn gy	-	1.10	-	0.99	0.77	0.86	0.86	-	-	-	0321-1L
3702.50	ccp	S/Sst : lt gy	0.61	1.31	0.07	1.00	0.68	0.76	0.81	0.25	-	-	0322-1L
3707.50	ccp	S/Sst : lt gy	0.68	1.21	-	1.22	0.82	0.98	0.89	-	-	-	0323-1L
3717.70	ccp	S/Sst : lt gy	1.46	2.50	0.33	0.91	0.66	0.75	0.80	0.20	15.51	5.76	0325-1L
3722.60	ccp	S/Sst : lt gy	0.90	1.33	0.07	0.95	0.74	0.80	0.84	0.29	-	-	0326-1L
3743.76	ccp	S/Sst : lt gy	0.89	2.06	0.12	1.16	0.66	0.73	0.80	0.16	2.99	-	0330-1L
3747.20	ccp	Sh/Clst: m gy	1.22	1.98	0.05	0.77	0.63	0.73	0.78	0.19	-	-	0331-1L
3752.45	ccp	Sh/Clst: m gy to drk gy	1.40	2.88	0.15	1.03	0.63	0.71	0.78	-	-	-	0332-1L
3892.00	com	bulk	1.41	3.22	0.09	1.73	0.84	0.93	0.90	0.15	14.23	3.74	0345-0B
3964.00	com	bulk	0.72	2.55	-	1.82	0.86	0.98	0.92	-	-	-	0346-0B

Table 7 : Thermal Maturity Data for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
1610.00	cut	bulk	0.43	20	0.07	3-4	-	-	0350-0B
1730.00	cut	bulk	0.43	23	0.07	4	-	-	0352-0B
1840.00	cut	bulk	NDP	-	-	3-4	-	-	0354-0B
1940.00	cut	bulk	0.56	1	0.00	4	-	-	0087-0B
2030.00	cut	bulk	0.34	2	0.02	4	-	-	0090-0B
2120.00	cut	bulk	0.58	1	0.00	4	-	-	0093-0B
2300.00	cut	bulk	0.54	2	0.10	4	-	-	0099-0B
2300.00	cut	Sh/Clst: lt gy to m gy	-	-	-	-	5.0-5.5	405	0099-1L
2390.00	cut	bulk	0.85	1	0.00	4 (?)	-	-	0102-0B
2480.00	cut	bulk	0.58	6	0.07	4	-	-	0105-0B
2570.00	cut	bulk	0.60	12	0.06	4	-	-	0108-0B
2750.00	cut	bulk	0.56	3	0.04	4-5	-	-	0114-0B
2840.00	cut	bulk	0.62	3	0.01	4 (??)	-	-	0117-0B
2928.00	cut	bulk	0.65	1	0.00	5-6	-	-	0120-0B

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
3044.00	cut bulk	NDP	-	-	5 (??)	-	-	0124-0B
3102.00	cut bulk	0.55	1	0.00	5-6	-	-	0132-0B
3102.00	cut Sh/Clst: drk gy to brn blk	-	-	-	-	5.5(?)	434	0132-2L
3192.00	cut Sh/Clst: drk gy to brn blk	-	-	-	-	5.5(?)	431	0147-1L
3198.00	cut bulk	0.58	11	0.03	5	-	-	0148-0B
3222.00	cut Sh/Clst: drk gy to brn blk	-	-	-	-	5.5(?)	438	0152-1L
3282.00	cut bulk	0.56	27	0.07	6	-	-	0162-0B
3366.00	cut Sh/Clst: drk gy to brn blk	-	-	-	-	6.5(?)	446	0176-2L
3408.00	cut bulk	0.59	8	0.11	5 (??)	-	-	0183-0B
3426.00	cut Sh/Clst: drk gy to gy blk	-	-	-	-	6.5(??)	449	0186-1L
3502.00	cut bulk	0.62	9	0.12	5-6 (?)	-	-	0199-0B
3526.00	cut Sh/Clst: drk gy to gy blk	-	-	-	-	7.0(?)	443	0203-1L
3598.00	cut bulk	0.72	12	0.07	6 (?)	-	-	0215-0B
3616.00	cut Sh/Clst: drk gy to gy blk	-	-	-	-	7.0(?)	445	0218-1L

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
3692.70	ccp bulk	0.76	30	0.05	6-7	-	-	0320-0B
3692.70	ccp Coal : blk	-	-	-	-	6.5(?)	451	0320-1L
3727.60	ccp Sltst : lt gy to lt y gy	-	-	-	-	6.5(?)	422	0327-1L
3802.00	cut bulk	0.87	30	0.05	6-7 (?)	-	-	0234-0B
3802.00	cut Coal : blk	-	-	-	-	6.0(??)	458	0234-1L
3892.00	cut bulk	0.74	16	0.10	6-7	-	-	0249-0B
3892.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	7.0-7.5	449	0249-5L
3946.00	cut bulk	0.82	4	0.09	6-7 (??)	-	-	0258-0B
4000.00	cut Cont : blk to brn blk	-	-	-	-	2.0	431	0267-1L
4074.00	cut Cont : blk to gy blk	-	-	-	-	NDP	331	0278-1L
4094.00	cut bulk	NDP	-	-	NDP	-	-	0282-0B
4168.00	cut Cont : blk to drk brn gy	-	-	-	-	4.0	426	0293-1L
4332.00	cut Cont : blk to brn blk	-	-	-	-	3.0-5.0	424	0313-4L

Depth unit of measure: m

Depth	Typ	Lithology	LIP %	Al	Li	S	C	R	A	D	A	B	I	N	F	S	I	M	S	B	V	T	C	V	A	B	Sample
				l	p	o	u	e	l	i	c	i	R	E	u	n	i	c	l	i	T	T	o	i	m		
			%	t	/	r	t	s	n	o	r	t	T	%	s	t	d	r	r	e	R	e	l	d	r		
2300.00	cut	Sh/Clst: lt gy to m gy	15	*	**	*	**						25	*	**						60	*				0099-1L	
3102.00	cut	Sh/Clst: drk gy to brn blk	85	**	*	*	**				*	TR	*	*							15	*				0132-2L	
3192.00	cut	Sh/Clst: drk gy to brn blk	75	**	*		**	*		*		5	*	*							20	*		*		0147-1L	
3222.00	cut	Sh/Clst: drk gy to brn blk	75	**	*		**	*		*		10	*	*							15	*		*		0152-1L	
3366.00	cut	Sh/Clst: drk gy to brn blk	25	**	*		**			*		10	*	**							65	*	*	*		0176-2L	
3426.00	cut	Sh/Clst: drk gy to gy blk	80	**	*		**	*		*		5	*	**							15	**	*			0186-1L	
3526.00	cut	Sh/Clst: drk gy to gy blk	60	**	*		**	*		*		5	*	*							35	*				0203-1L	
3616.00	cut	Sh/Clst: drk gy to gy blk	35	*	*		**	*		*		10	*	*							55	**		**		0218-1L	
3692.70	ccp	Coal : blk	10		**	*							10	*							80	**	**	*		0320-1L	
3727.60	ccp	Sltst : lt gy to lt y gy	TR	*	*		*			*			25	*	*						75	**	*			0327-1L	
3802.00	cut	Coal : blk	5		*	*							10	*							85	**	*	*		0234-1L	
3892.00	cut	Sh/Clst: m gy to drk gy	30	**	*		**	*		*			15	*	*	*					55	*		*		0249-5L	

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m r L t	L D e t	S P / o c l l	C u t P i s t i n e	R A l g o f i n e	D i n c o r t L	A B i t L	I N E R T %	F u s i n	S e m F u s	I n t e r n o	M i c r o	S c l e r o	B i t I	V I T R %	T e l l i n	C o l l i n	V i t e r	A m o r t V	B i t V	Sample
4000.00	cut	Cont : blk to brn blk	20			*	*	**		*	0							80	**	*	*			0267-1L
4074.00	cut	Cont : blk to gy blk	NDP								NDP							NDP						0278-1L
4168.00	cut	Cont : blk to drk brn gy	20	*		*	*	**			0							80	**	*	*			0293-1L
4332.00	cut	Cont : blk to brn blk	35	*		*	*	**			0							65	**	*	*			0313-4L

Depth unit of measure: m

Depth	Typ	Lithology	EOM/Oil	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
3156.00	com	Composite sample	-28.73	-29.84	-28.67	-28.40	-27.74	-	0335-0B
3240.00	com	Composite sample	-25.89	-27.74	-25.69	-26.13	-25.28	-	0338-0B
3276.00	com	Composite sample	-	-27.57	-24.69	-25.57	-23.88	-	0339-0B
3486.00	com	Composite sample	-26.00	-27.18	-25.59	-26.01	-25.44	-	0343-0B
3672.70	ccp		-27.09	-27.52	-26.33	-26.86	-26.30	-	0316-1L
3682.70	ccp		-	-27.63	-25.61	-26.83	-26.09	-	0318-1L
3692.70	ccp		-24.87	-27.03	-24.82	-24.82	-24.10	-	0320-1L
3697.00	ccp		-27.04	-27.57	-26.92	-26.95	-26.31	-	0321-1L
3707.50	ccp		-27.00	-27.49	-26.30	-26.99	-26.26	-	0323-1L
3717.70	ccp		-	-26.73	-25.19	-25.48	-24.82	-	0325-1L
3743.76	ccp		-	-27.66	-25.47	-27.11	-25.03	-	0330-1L
3747.20	ccp		-	-27.81	-25.47	-26.36	-25.03	-	0331-1L
3892.00	com	Composite sample	-	-27.62	-25.71	-27.51	-25.49	-	0345-0B
3964.00	com	Composite sample	-	-27.91	-27.29	-28.06	-27.87	-	0346-0B

Table 9B : Tabulation of cv values from carbon isotope data for well NOCS 35/8-2

Depth unit of measure: m

Depth	Typ	Lithology	Saturated	Aromatic	cv value	Sample
3156.00	com	Composite sample	-29.84	-28.67	0.20	0335-0B
3240.00	com	Composite sample	-27.74	-25.69	1.50	0338-0B
3276.00	com	Composite sample	-27.57	-24.69	3.29	0339-0B
3486.00	com	Composite sample	-27.18	-25.59	0.31	0343-0B
3672.70	ccp		-27.52	-26.33	-0.48	0316-1L
3682.70	ccp		-27.63	-25.61	1.40	0318-1L
3692.70	ccp		-27.03	-24.82	1.64	0320-1L
3697.00	ccp		-27.57	-26.92	-1.66	0321-1L
3707.50	ccp		-27.49	-26.30	-0.49	0323-1L
3717.70	ccp		-26.73	-25.19	0.06	0325-1L
3743.76	ccp		-27.66	-25.47	1.79	0330-1L
3747.20	ccp		-27.81	-25.47	2.17	0331-1L
3892.00	com	Composite sample	-27.62	-25.71	1.15	0345-0B
3964.00	com	Composite sample	-27.91	-27.29	-1.62	0346-0B

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/E									C+D+E+F	D+F/C+E	J1+J2%		
3156.00	Sh/Clst	1.50	0.60	0.13	0.57	0.36	0.04	0.41	0.72	0.29	0.04	0.88	0.37	0.15	58.91	0.15	58.91	0335-0
3240.00	Sh/Clst	2.30	0.70	0.13	0.54	0.35	0.06	0.30	0.56	0.23	0.04	0.87	0.34	0.14	60.73	0.14	60.73	0338-0
3276.00	S/Sst	1.42	0.59	0.16	0.58	0.37	0.08	0.18	0.30	0.15	0.07	0.87	0.36	0.14	59.89	0.14	59.89	0339-0
3486.00	Sh/Clst	0.82	0.45	0.09	0.38	0.28	0.13	0.02	0.06	0.02	0.03	0.92	0.28	0.08	59.56	0.08	59.56	0343-0
3672.70	S/Sst	0.39	0.28	0.10	0.39	0.28	0.38	0.09	0.22	0.08	0.18	0.93	0.28	0.07	60.75	0.07	60.75	0316-1
3687.55	S/Sst	0.52	0.34	0.18	0.67	0.40	0.26	0.08	0.12	0.08	0.45	0.95	0.41	0.07	58.72	0.07	58.72	0319-1
3692.70	Coal	4.37	0.81	0.15	0.53	0.35	0.12	0.02	0.03	0.02	-	0.91	0.34	0.09	58.77	0.09	58.77	0320-1
3697.00	S/Sst	0.22	0.18	0.06	0.35	0.26	0.40	0.11	0.31	0.10	0.12	0.92	0.27	0.09	64.61	0.09	64.61	0321-1
3707.50	S/Sst	0.32	0.24	0.09	0.36	0.26	0.41	0.11	0.31	0.10	0.13	0.95	0.26	0.05	63.78	0.05	63.78	0323-1
3717.70	S/Sst	0.90	0.47	0.11	0.53	0.35	0.25	0.04	0.07	0.03	0.06	0.93	0.34	0.06	60.78	0.06	60.78	0325-1
3743.76	S/Sst	1.35	0.57	0.17	0.58	0.37	0.16	-	-	-	0.24	0.91	0.36	0.08	64.00	0.08	64.00	0330-1
3747.20	Sh/Clst	0.89	0.47	0.14	0.42	0.29	0.63	0.06	0.15	0.06	0.12	0.96	0.29	0.04	61.87	0.04	61.87	0331-1
3892.00	Sh/Clst	0.99	0.50	0.17	0.63	0.39	0.22	0.16	0.25	0.14	0.60	0.93	0.40	0.09	58.66	0.09	58.66	0345-0
3964.00	S/Sst	0.99	0.50	0.19	0.82	0.45	0.04	0.04	0.04	0.03	0.26	0.93	0.45	0.08	58.99	0.08	58.99	0346-0

Table 10B: Variation in Sterane Distribution (peak height) for Well NOCS 35/8-2

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3156.00	Sh/Clst	0.40	38.41	55.07	0.74	0.61	0.22	0.16	0.38	0.62	1.00	0335-0
3240.00	Sh/Clst	0.71	45.03	62.06	0.84	0.64	0.21	0.17	0.45	0.82	1.49	0338-0
3276.00	S/Sst	0.80	46.44	65.76	0.62	0.67	0.41	0.34	0.49	0.87	1.79	0339-0
3486.00	Sh/Clst	0.83	49.70	64.77	0.90	0.65	0.49	0.41	0.48	0.99	1.83	0343-0
3672.70	S/Sst	0.95	48.21	78.23	0.95	0.79	0.44	0.34	0.64	0.93	3.47	0316-1
3687.55	S/Sst	0.87	43.10	77.38	1.10	0.80	0.61	0.52	0.63	0.76	3.01	0319-1
3692.70	Coal	0.45	44.71	67.55	0.10	0.70	0.11	0.06	0.51	0.81	1.88	0320-1
3697.00	S/Sst	0.92	47.15	77.99	1.01	0.79	0.44	0.33	0.64	0.89	3.35	0321-1
3707.50	S/Sst	0.97	46.98	74.56	0.97	0.76	0.46	0.34	0.59	0.89	2.76	0323-1
3717.70	S/Sst	0.54	52.84	78.91	0.18	0.78	0.18	0.12	0.65	1.12	3.97	0325-1
3743.76	S/Sst	0.68	49.52	68.35	0.78	0.69	0.69	0.59	0.52	0.98	2.14	0330-1
3747.20	Sh/Clst	0.66	43.32	78.10	0.17	0.80	0.21	0.15	0.64	0.76	3.15	0331-1

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: $r + s / t$

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3892.00	Sh/Clst	0.76	39.28	64.48	1.12	0.70	0.72	0.64	0.48	0.65	1.49	0345-0
3964.00	S/Sst	0.58	42.60	70.37	0.85	0.74	0.31	0.24	0.54	0.74	2.07	0346-0

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: $r + s / t$

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			
3156.00	Sh/Clst	250.94	97.47	93.03	160.12	24.82	306.72	461.50	1122.23	1565.80	0335-0
		113.14	290.91	2731.17	369.98	1045.78	702.61	205.69	637.48		
		444.62	722.03	458.50	429.14	271.55	336.59	215.16			
3240.00	Sh/Clst	233.32	107.13	73.09	142.34	22.39	213.40	490.71	890.47	1598.61	0338-0
		169.00	190.06	2977.04	457.62	1263.53	880.39	251.65	708.31		
		457.99	497.26	309.44	398.03	237.57	242.27	151.90			
3276.00	S/Sst	192.60	83.40	50.08	106.27	22.66	168.23	239.40	196.50	644.47	0339-0
		84.95	79.71	1116.65	166.91	428.11	284.03	90.84	239.71		
		160.57	166.17	104.40	105.43	62.45	46.05	28.04			
3486.00	Sh/Clst	128.11	45.41	14.53	91.85	4.52	177.10	145.45	28.78	505.72	0343-0
		176.00	41.18	1316.40	112.50	565.85	488.00	90.71	345.55		
		234.61	208.04	140.46	131.35	82.09	52.97	32.28			
3672.70	S/Sst	58.10	33.38	19.16	25.23	11.57	57.46	22.25	15.60	71.86	0316-1
		70.18	4.32	182.41	12.71	76.93	50.30	14.31	61.11		
		39.48	41.50	24.08	26.12	14.37	14.72	10.63			

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			
3687.55	S/Sst	82.54 22.34 15.44	38.36 5.12 14.62	25.63 85.07 8.05	24.72 4.79 7.29	13.64 32.80 5.31	37.69 22.40 5.28	19.52 5.75 3.64	7.10 21.96	56.85	0319-1
3692.70	Coal	14.67 191.18 380.29	5.68 52.83 256.10	0.00 1617.78 174.91	157.84 167.93 150.12	0.00 874.60 97.37	69.43 586.87 52.38	303.35 117.33 29.49	27.49 542.04	856.43	0320-1
3697.00	S/Sst	34.37 77.44 35.15	22.72 7.92 41.97	8.57 193.96 26.52	21.58 16.12 24.87	6.07 77.81 13.83	65.27 49.45 11.81	14.57 11.82 9.20	21.23 64.18	68.09	0321-1
3707.50	S/Sst	45.44 66.09 31.40	21.39 2.56 37.34	11.55 162.22 22.73	22.55 8.69 20.55	5.67 63.12 14.88	51.54 44.62 10.45	16.37 9.85 6.83	18.16 55.29	58.19	0323-1
3717.70	S/Sst	33.87 75.05 71.79	17.56 5.23 52.84	10.46 296.05 34.95	38.78 22.67 35.57	4.22 152.61 22.12	45.26 99.82 8.37	40.66 20.14 9.64	10.68 111.26	158.19	0325-1

Table 10C: Raw GCMS triterpane data (peak height) for Well NOCS 35/8-2

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			
3743.76	S/Sst	18.07	6.36	2.11	5.45	1.10	4.41	5.95	0.00	15.39	0330-1
		4.18	0.80	26.62	2.59	13.08	8.33	1.87	8.87		
		4.99	6.15	4.58	2.41	2.03	2.39	0.61			
3747.20	Sh/Clst	19.08	12.81	2.15	20.08	2.70	21.29	18.92	6.66	45.90	0331-1
		69.02	1.37	110.18	5.03	36.96	23.81	3.98	31.70		
		19.54	16.43	10.59	9.20	3.94	2.93	0.00			
3892.00	Sh/Clst	144.25	64.39	38.35	33.06	12.20	23.77	23.44	16.95	67.34	0345-0
		23.19	8.35	107.46	8.09	43.51	27.43	8.28	26.42		
		18.62	21.50	9.10	9.26	6.78	5.14	3.68			
3964.00	S/Sst	58.17	28.93	19.65	14.30	8.27	28.36	27.98	4.04	91.41	0346-0
		4.61	8.13	111.93	8.21	43.46	48.02	4.60	26.01		
		18.08	20.91	9.57	8.06	7.43	8.63	5.00			

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					
3156.00	Sh/Clst	523.33	192.25	578.90	343.93	164.22	179.30	240.82	266.32	739.03	0335-0
		720.57	392.34	870.10	452.05	210.18	390.39	340.11	291.42		
		577.79	618.08	641.59	344.73	991.26					
3240.00	Sh/Clst	249.91	89.39	505.71	305.92	129.65	203.09	221.42	164.17	208.77	0338-0
		643.08	160.62	207.92	421.29	148.50	76.72	157.12	119.75		
		131.89	317.02	377.43	198.32	387.01					
3276.00	S/Sst	169.12	58.63	99.16	62.82	27.15	25.32	38.84	39.32	52.47	0339-0
		176.76	53.62	24.25	85.30	36.22	17.91	46.05	34.70		
		23.53	76.34	101.36	56.51	88.03					
3486.00	Sh/Clst	115.77	34.08	93.60	56.80	23.25	21.15	24.16	22.31	31.39	0343-0
		114.22	34.79	19.70	58.53	20.03	4.28	22.81	11.01		
		2.21	40.35	39.79	34.84	40.84					
3672.70	S/Sst	49.01	20.73	80.30	47.02	16.63	26.91	30.07	24.31	15.28	0316-1
		90.00	22.24	4.47	51.01	16.05	4.48	23.05	21.56		
		6.44	15.06	31.77	24.37	16.18					

Table 10D: Raw GCMS sterane data (peak height) for Well NOCS 35/8-2

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					
3687.55	S/Sst	47.49 31.94 3.35	15.56 10.22 6.53	31.30 4.74 14.87	19.48 16.81 11.04	7.29 5.42 8.62	8.48 1.42	8.93 6.28	9.28 6.91	6.43	0319-1
3692.70	Coal	36.05 181.91 23.55	19.21 26.45 98.22	20.02 24.72 130.55	12.74 145.19 98.09	8.98 57.47 121.45	35.82 29.39	41.30 355.66	45.64 52.80	30.65	0320-1
3697.00	S/Sst	55.42 93.77 7.49	19.40 27.47 16.47	85.42 7.13 34.82	54.71 58.17 27.05	19.70 17.78 18.46	31.80 5.12	35.33 20.34	26.27 15.56	14.25	0321-1
3707.50	S/Sst	57.51 91.78 4.85	17.98 28.01 17.06	80.51 2.45 30.16	48.04 51.18 23.06	19.18 17.26 19.25	27.59 6.20	30.57 21.17	24.51 25.99	17.75	0323-1
3717.70	S/Sst	26.90 249.81 3.96	9.65 47.47 29.85	34.54 29.85 60.11	14.30 152.25 45.54	7.50 51.32 26.64	35.09 8.58	44.46 60.28	36.65 19.59	29.05	0325-1

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					
3743.76	S/Sst	12.32	1.91	2.80	2.28	0.79	1.22	1.35	1.09	1.61	0330-1
		4.46	1.77	1.29	2.69	1.08	0.62	0.83	0.57		
		0.69	1.55	1.83	1.55	1.58					
3747.20	Sh/Clst	14.78	3.77	10.33	3.96	2.80	8.60	12.05	9.60	8.49	0331-1
		70.42	13.60	5.28	44.64	15.39	1.76	17.21	6.03		
		0.53	10.73	24.67	19.49	14.04					
3892.00	Sh/Clst	85.54	30.45	28.71	14.68	6.28	6.65	8.40	8.58	13.43	0345-0
		28.03	10.99	8.99	11.19	3.69	3.61	7.47	7.38		
		5.33	9.09	12.91	8.09	14.05					
3964.00	S/Sst	20.97	6.21	18.68	11.47	3.99	5.54	6.06	2.79	11.73	0346-0
		22.43	11.41	13.76	13.35	3.85	3.55	7.06	7.75		
		4.97	12.06	19.00	14.62	16.25					

Table 10E: Aromatisation of Steranes for Well NOCS 35/8-2

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Sample
3156.00	Sh/Clst	0.29	0.92	0335-0
3240.00	Sh/Clst	0.32	0.97	0338-0
3276.00	S/Sst	0.48	0.93	0339-0
3486.00	Sh/Clst	0.51	0.97	0343-0
3672.70	S/Sst	0.61	0.86	0316-1
3687.55	S/Sst	0.85	0.90	0319-1
3692.70	Coal	0.92	0.60	0320-1
3697.00	S/Sst	0.63	0.84	0321-1
3707.50	S/Sst	0.60	0.92	0323-1
3717.70	S/Sst	0.90	0.71	0325-1
3743.76	S/Sst	0.97	0.53	0330-1
3747.20	Sh/Clst	0.90	0.48	0331-1
3892.00	Sh/Clst	0.84	0.75	0345-0

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

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

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3964.00	S/Sst	0.45	0.92	0346-0

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

Ratio2: $g1 / g1 + I1$

Table 10F: Variation in Triaromatic Sterane Distribution for Well NOCS 35/8-2

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
3156.00	Sh/Clst	0.29	0.24	0.10	0.11	0.14	0335-0
3240.00	Sh/Clst	0.26	0.23	0.11	0.11	0.18	0338-0
3276.00	S/Sst	0.65	0.57	0.41	0.40	0.58	0339-0
3486.00	Sh/Clst	0.61	0.55	0.41	0.38	0.59	0343-0
3672.70	S/Sst	0.80	0.76	0.62	0.59	0.78	0316-1
3687.55	S/Sst	0.88	0.84	0.72	0.71	0.83	0319-1
3692.70	Coal	0.72	0.88	0.67	0.46	0.69	0320-1
3697.00	S/Sst	0.85	0.81	0.67	0.66	0.81	0321-1
3707.50	S/Sst	0.81	0.78	0.64	0.60	0.79	0323-1
3717.70	S/Sst	0.61	0.61	0.47	0.36	0.75	0325-1
3743.76	S/Sst	0.77	0.79	0.59	0.56	0.72	0330-1
3747.20	Sh/Clst	0.32	0.69	0.40	0.14	0.35	0331-1
3892.00	Sh/Clst	0.59	0.63	0.37	0.34	0.45	0345-0

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: $a1 / a1 + d1$

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>
3964.00	S/Sst	0.53	0.47	0.32	0.31	0.48	0346-0

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: $a1 / a1 + d1$

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>
3156.00	Sh/Clst	0.25	0.16	0.13	0.12	0335-0
3240.00	Sh/Clst	0.29	0.20	0.13	0.11	0338-0
3276.00	S/Sst	0.38	0.19	0.11	0.07	0339-0
3486.00	Sh/Clst	0.51	0.36	0.13	0.07	0343-0
3672.70	S/Sst	0.62	0.59	0.31	0.31	0316-1
3687.55	S/Sst	0.54	0.38	0.19	0.13	0319-1
3692.70	Coal	0.17	0.08	0.03	0.02	0320-1
3697.00	S/Sst	0.69	0.39	0.36	0.24	0321-1
3707.50	S/Sst	0.74	0.65	0.40	0.33	0323-1
3717.70	S/Sst	0.18	0.02	0.03	0.02	0325-1
3743.76	S/Sst	0.05	-	0.01	-	0330-1
3747.20	Sh/Clst	-	-	-	-	0331-1
3892.00	Sh/Clst	0.11	-	0.02	0.01	0345-0
3964.00	S/Sst	0.53	0.14	0.20	0.12	0346-0

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

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
3156.00	Sh/Clst	1742.19	1367.44	3999.20	10553.77	4467.47	4789.21	4318.22	0335-0
3240.00	Sh/Clst	1032.96	849.96	1890.43	4666.10	3220.93	2061.71	2925.46	0338-0
3276.00	S/Sst	875.98	627.79	188.17	645.69	534.35	314.63	479.31	0339-0
3486.00	Sh/Clst	567.26	442.72	145.22	386.20	390.82	166.27	360.94	0343-0
3672.70	S/Sst	307.23	250.09	40.13	88.46	96.20	40.27	77.46	0316-1
3687.55	S/Sst	106.71	78.68	7.16	21.80	19.03	9.94	14.85	0319-1
3692.70	Coal	79.24	226.08	20.51	35.78	56.22	5.97	30.35	0320-1
3697.00	S/Sst	530.54	398.19	43.07	126.60	122.99	60.14	96.20	0321-1
3707.50	S/Sst	176.22	145.79	15.92	46.76	52.94	22.99	41.15	0323-1
3717.70	S/Sst	88.21	90.12	14.33	29.82	75.97	20.90	57.09	0325-1
3743.76	S/Sst	31.30	33.99	8.82	12.30	12.32	2.80	9.28	0330-1
3747.20	Sh/Clst	14.89	72.40	10.19	27.12	46.55	13.88	31.86	0331-1
3892.00	Sh/Clst	39.08	45.33	19.11	47.26	29.37	18.47	27.12	0345-0
3964.00	S/Sst	40.89	32.17	17.67	45.18	34.76	21.54	36.80	0346-0

Table 10I: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 35/8-2

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
3156.00	Sh/Clst	940.07	551.82	1332.17	1219.87	2806.36	467.48	3555.07	1585.73	352.88	0335-0
3240.00	Sh/Clst	510.52	315.75	818.20	599.13	1238.25	357.43	2293.99	1523.16	103.33	0338-0
3276.00	S/Sst	107.11	41.00	118.95	29.03	171.98	39.58	682.39	945.37	36.83	0339-0
3486.00	Sh/Clst	74.25	39.84	77.90	24.57	70.26	18.95	431.97	870.31	9.68	0343-0
3672.70	S/Sst	128.13	109.98	89.97	34.12	77.93	12.62	205.75	106.25	12.47	0316-1
3687.55	S/Sst	39.38	20.08	32.71	8.82	32.90	5.22	138.14	180.59	1.69	0319-1
3692.70	Coal	25.52	11.07	90.88	0.00	126.64	20.01	825.67	735.30	20.55	0320-1
3697.00	S/Sst	182.62	51.34	102.44	37.98	81.27	16.60	244.30	248.95	17.99	0321-1
3707.50	S/Sst	82.37	55.25	44.87	13.26	29.65	6.80	96.16	80.11	3.79	0323-1
3717.70	S/Sst	31.60	2.64	85.65	2.77	141.31	17.06	795.16	718.58	23.76	0325-1
3743.76	S/Sst	6.18	0.00	50.48	0.00	119.05	23.96	512.19	646.79	8.35	0330-1
3747.20	Sh/Clst	0.00	0.00	38.29	0.00	43.09	12.74	435.67	594.07	35.03	0331-1
3892.00	Sh/Clst	6.31	0.00	35.94	2.37	52.42	4.15	225.76	405.60	8.83	0345-0
3964.00	S/Sst	15.79	2.19	10.24	7.87	13.97	3.00	50.85	36.96	3.18	0346-0

EXPERIMENTAL PROCEDURES

Headspace gas analysis

The analysis is performed using a gas chromatograph with a 50 m capillary column, loop injector and flame ionisation detector. Helium is used as carrier gas.

Two cm³ of headspace gas are removed from each sample can for chromatographic analysis of the C₁ to C₇ range of hydrocarbons.

Occluded gas analysis

The analysis is performed using a gas chromatograph with a 50 m capillary column, loop injector and flame ionisation detector. Helium is used as carrier gas.

The canned samples are washed in thermostatted water to remove drilling contaminants and sieved on a 2 mm mesh sieve to remove large, caved rock fragments. An aliquot (ca 25 mg) of sieved sample is crushed with 25 cm³ water in an airtight ball mill. After crushing, 2 cm³ of the released gas are removed from the ball mill for gas chromatographic analysis.

Total organic carbon (TOC) and total carbon analysis

This analysis is performed using a LECO CS244 Carbon Analyser.

Hand-picked lithologies from cutting samples are crushed with a mortar and pestle and approximately 200 mg (50 mg for coals) are accurately weighed into LECO crucibles. The samples are then treated three times with dilute hydrochloric acid, to remove oxidised (carbonate) carbon, and

washed four times with distilled water. The samples are dried on a hotplate at 60-70°C before analysis of total organic carbon. Total carbon is analysed on the same instrument using approximately 200 mg of untreated crushed whole rock. Oxidised (carbonate) carbon is calculated by difference.

Total organic carbon can also be determined on the ROCK EVAL II Pyrolyser.

Extractable Organic Matter (EOM) Analysis

Samples are selected for extraction on the basis of screening analysis. Approximately 10 - 20 g of whole rock are accurately weighed.

Extraction is carried out in a Tecator Soxtec HT system, using dichloromethane as extraction solvent and in the presence of activated copper. A 1 h boiling period followed by 2 h rinsing is used. The extract is filtered into a tared flask and the solvent is removed by rotary evaporation at 35°C and 200 mB. The dry residue is weighed in the flask to determine the amount of EOM.

Separation of asphaltenes

Asphaltenes are removed from the EOM by precipitation in n-pentane. The amount of n-pentane to be used is prescribed by the formula:

$$\frac{\text{wt of EOM(g)} \times 40}{\text{density of n-pentane (g/cm}^{-3}\text{)} \times 1000} = \text{Volume of n-pentane(cm}^3\text{)}$$

density of n-pentane (g/cm⁻³) x 1000

The n-hexane and EOM are poured into a pre-weighed plastic column containing a small amount of activated silica. The column is allowed to run and then dried and weighed. The amount of asphaltenes recovered is calculated by weight difference.

After the removal of asphaltenes the solvent is evaporated from the remaining EOM by rotary evaporation, at 35°C. If the dried sample is not to be processed immediately, it is stored in a freezer.

Liquid chromatographic separation

Chromatographic separation is performed using an MPLC system developed by the company. The EOM (after removal of asphaltenes) is injected into the MPLC and chromatographed using hexane as eluent. This effects a separation into saturated and aromatic fractions which are collected and concentrated on a rotary evaporator, at 35°C and 200 mB, to remove the bulk of the hexane. The fractions are then transferred to small tared vials and evaporated to dryness in a stream of nitrogen. The vials are re-weighed to obtain the weights of both fractions. The weight of the NSO fraction, which is retained on the chromatography column, is obtained by difference.

Gas chromatographic analyses

Saturated fraction

The instrument used for this analysis is a gas chromatograph with a 25 m OV1 column, split injector and FID detector. The carrier gas is helium and the temperature program runs isothermally at 60°C, for 2 minutes and then rises to 290°C at a rate of 4°C/min.

The sample of saturated fraction is diluted by 1:20 with hexane and a 1 microlitre aliquot of this is injected into the instrument.

Aromatic fraction

The instrument used is a gas chromatograph with a 25 m SE-54 capillary column, split injector and effluent splitter leading to FID and FPD detectors, allowing simultaneous analysis of hydrocarbons and sulphur compounds. The carrier gas is helium and the temperature program runs from 60°C to 300°C at a rate of 4°C/min.

The sample of aromatic fraction is diluted by 1:20 with hexane and a 1 microlitre aliquot of this is injected into the instrument.

Whole Oil

Whole oil chromatograms are determined on a gas chromatograph fitted with a split injector, 25m SE54 capillary column and effluent splitter connected to FID and sulphur mode FPD detectors allowing simultaneous determination of hydrocarbons and sulphur compounds. Approximately 0.1 microlitres of whole oil are injected and the temperature program on the chromatograph runs from -10°C to 300°C at 4°C/min.

Rock Eval pyrolysis

This analysis is performed using a ROCK EVAL II Pyrolyser into which approximately 100 mg of crushed whole rock are loaded. Analysis involves heating the sample, from 300°C to 600°C, in an inert atmosphere (helium) to release naturally generated hydrocarbons (S1 peak) and then pyrolytically

generated hydrocarbons (S2 peak), both of which are detected by an FID. In the temperature interval between 300°C and 390°C, the released gases are split and a proportion passed through a carbon dioxide trap, which is connected to a thermal conductivity detector (TCD). The value obtained from the TCD corresponds to the amount of oxygen contained in the kerogen of the sample and is reported as the S3 peak. The temperature corresponding to the maximum of the S₂ peak, T_{max}, is also recorded.

The ROCK EVAL II Pyrolyser also determines the TOC of each sample subsequent to pyrolysis.

Thermal extraction/pyrolysis gas chromatography

The instrument used for this analysis is a gas chromatograph connected to a pyrolysis oven. A very small amount (2 mg) of whole rock sample is loaded into the oven and heated isothermally, at 300°C, for 3 minutes, during which time thermal extraction of the generated hydrocarbons occurs (equivalent to the S1 peak of Rock Eval). The released gases pass to a 15 m OV1 column with a nitrogen-cooled trap.

After 3 minutes the pyrolysis oven heats up to 510°C, at a rate of 40°C per minute, causing bound hydrocarbons to be released from the kerogen of the sample (equivalent to the S2 peak of Rock Eval). These gases are passed through a 25m DB1 capillary column with a nitrogen-cooled trap.

The temperature program for the chromatographic oven, in which both columns are situated, rises from 0°C to 290°C at a rate of 4°C/min. Both columns are linked to FID detectors.

Vitrinite reflectance analysis

Samples, in the form of small granules, are mounted in a

fast setting resin. The resin blocks are ground on coarse corundum paper to expose the rock granule surfaces and then on three finer grades of corundum paper to improve these surfaces and reduce scratches. The resin blocks are finally polished on a rotating Selvyt-covered lap using two grades of polishing alumina. Isopropyl alcohol is used to lubricate the entire grinding and polishing process except in the case of coal samples, when water is used.

Reflectance measurements are taken under oil immersion ($n = 1.518$) using a ZEISS MPM03 microscope photometer with a 546nm interference filter. The polished blocks are mounted on the microscope stage and scanned manually in order to locate and measure particles of vitrinite. An attempt is made to obtain readings from 20 individual particles per sample but this is not always possible in samples with low amounts of phytoclasts.

Spore fluorescence colour

Samples are also analysed microscopically in U.V. light, using an exciter filter with a band pass of 400 - 440 nm and a barrier filter with a long pass of 470 nm, and the colour of the spore fluorescence is determined. This is used as an alternative maturity parameter to verify the result obtained from vitrinite reflectance and is reported on a numerical scale from 1 to 9:

Fluorescence Colour	Colour Index
Green	1
Green/Yellow	2
Yellow	3
Yellow/Orange	4
Light Orange	5
Mid-Orange	6
Dark Orange	7
Orange/Red	8
Red	9

Preparation of Kerogen Concentrates

Samples are stirred for 16 h with 25 cm³ concentrated hydrochloric acid at 35 - 40°C. The acid is decanted and the residue washed by stirring for 3 h with 25 cm³ distilled water. The washing is repeated twice more.

If the concentrate is not being prepared for slides the residue is washed, rapidly, at this point, with 25 cm³ dichloromethane.

25 cm³ hydrofluoric acid are then added to the residue and the mixture stirred for 16 h at room temperature. The acid is decanted and the residue washed by stirring for 3 h with distilled water. The water washing is repeated three times with fresh aliquots of distilled water each time. The water is then decanted and the residue either dried in an oven at 40 - 50°C to constant weight, or, if slides are to be made, it is transferred to a microscope cover slip and dried on a hot bench at 40 - 50°C.

Preparation of Slides

The dry kerogen concentrate is mounted on a slide in glycerine/gelatine and left to dry at room temperature overnight.

EXPERIMENTAL

Isotope Ratio Mass Spectrometry

The isotope analysis were performed on a dual inlet VG SIRA 10 instrument. The combustion of the samples were done by a Carlo Erba EA 1108 element analyser directly connected to the inlet system of the mass spectrometer.

The combustion temperature was 1020°C and the carries gas used was Helium. After the combustion H₂O and CO₂ were trapped in different cool traps. The CO₂ gas was then heated up before it was admitted to the mass spectrometer. The whole operation was controlled by a IBM PC50 computer system.

δ-values

The isotope ratios are given as δ-values in ‰ versus the PDB-standard:

$$\delta^{13}\text{C} = \cdot (\text{R sample} - \text{R standard} / \text{R standard}) * 1000$$

$$\text{R} = {}^{13}\text{C} / {}^{12}\text{C}$$

The PDB standard (a marine chalk of the Pee Dee-formation, USA) was created by Craig 1957. All results of ${}^{13}\text{C} / {}^{12}\text{C}$ - analysis of organic matter today are calculated (Craig correction) against this international standard.

Reproducebility

The presision of the combustion system and the mass spectrometer is controlled by determinations of an international calibrated standard, NBS22 oil and a house standard of carbon.

Double analysis on samples are also done.

Experimental, combined gas chromatography - mass spectrometry (GC-MS)

The GC-MS analyses were performed on a VG TS250 system interfaced to a Hewlett Packard 5890 gas chromatograph. The GC was fitted with a fused silica SE 54 capillary column (50 m x 0.22 mm i.d.) directly into the ion source. Helium (12psi) was used as carrier gas and the injections were performed in splitless mode. The GC oven was programmed from 45°C to 150°C at 35°C/min at which point the programme rate was 2°C/min. up to 310°C where the column was held isothermally for 15 min. For the aromatic hydrocarbons, the GC oven was programmed from 50°C to 310°C at 5°C/min and held isothermally at 310°C for 15 min. The mass spectrometer was operated in electron impact (EI) mode at 70 eV electron energy, a trap current of 500 uA and a source temperature of 220°C. The instrument resolution used was 1500 (10% valley).

The data system used was a VG PDP11/73 system. The samples were analysed in multiple ion detection mode (MID) at a scan cycle time of approximately 1,1 sec.

Calculation of peak ratios was done from peak heights in the appropriate mass fragmentograms.

In the discussion of the GC-MS data, the results will be discussed by area. The wells within an area will be discussed separately. In the discussion, samples within one formation are discussed together. The discussion is further divided into types of compounds as follows:

Saturated Fractions:

Terpanes

The most commonly used fragment ions for detection of terpanes are M/Z 163 for detection of 25, 28, 30 trisnor-moretane or 25, 28, 30 trisnorhopane, M/Z 177 for detection of demethylated hopanes or moretanes, M/Z 191 for detection of tricyclic, tetracyclic- and pentacyclic terpanes and M/Z 205 for methylated hopanes or moretanes. The molecular ions M/Z 370 and 384 are also recorded for identification of C₂₇ and C₂₈ triterpanes respectively.

Steranes

The most commonly used fragment ions for detection of steranes are M/Z 149 to distinguish between 5 α and 5 β steranes, M/Z 189 and 259 for detection of rearranged steranes, M/Z 217 for detection of rearranged and normal steranes and M/Z 218 for detection of 14 β (H), 17 β (H) steranes.

The M/Z 231 fragment ion is used to detect possible aromatic contamination of the saturated fraction. It is also used for detection of methyl steranes.

Aromatic Fractions:

Alkyl-substituted Benzenes

The M/Z 106 fragment ion is often used to detect the alkyl-substituted benzenes. It is especially useful for the detection of di-substituted benzenes. M/Z 134 can also be used for the detection of C₄-alkylbenzenes, but benzothiophene will also give a signal with this fragment ion.

Naphthalenes

Methylnaphthalenes are normally detected by the M/Z 142 fragment ion while C₂-naphthalenes are detected by M/Z 156 and C₃-naphthalenes by M/Z 170.

Benzothiophenes and Dibenzothiophenes

Benzothiophene can be detected, as mentioned above, by M/Z 134. The M/Z 198 and M/Z 212 fragment ions are used for methylsubstituted dibenzothiophenes and dimethylsubstituted dibenzothiophenes respectively.

Phenanthrenes

Phenanthrene is detected using the M/Z 178 fragment ion. Anthracene will, if present also give a signal in the M/Z 178 fragmentation. Methyl-substituted phenanthrenes give signals in the M/Z 192 fragment ion while the M/Z 206 fragment ion shows the dimethyl-substituted phenanthrenes and the M/Z 220 fragmentation shows the C₃ substituted phenanthrenes.

Aromatic Steranes

Monoaromatic steranes are detected using the M/Z 253 fragment ion while the triaromatic steranes are detected using the M/Z 231 fragmentation.

D/X/32

2a. Mass Fragmentograms representing Terpanes

(M/Z 163, 177, 191, 205, 370, 384, 398, 412 and 426)

Peak identification. (α and β refer to hydrogen atoms at C-17 and C-21 respectively unless indicated otherwise).

A.	18 α trisnorneohopane (Ts)	$C_{27}H_{44}$	(I)
B.	17 α trisnorhopane (Tm)	$C_{27}H_{46}$	(II, R=H)
Z.	Bisnorhopane	$C_{28}H_{48}$	(IV)
C.	$\alpha\beta$ norhopane	$C_{29}H_{50}$	(II, R= C_2H_5)
D.	$\beta\alpha$ norhopane	$C_{29}H_{50}$	(III, R= C_2H_5)
E.	$\alpha\beta$ hopane	$C_{30}H_{52}$	(II, R=i- C_3H_7)
F.	$\beta\alpha$ hopane	$C_{30}H_{52}$	(III, R=i- C_3H_7)
G.	22S $\alpha\beta$ homohopane	$C_{31}H_{54}$	(II, R=i- C_4H_9)
H.	22R $\alpha\beta$ homohopane	$C_{31}H_{54}$	(II, R=i- C_4H_9)
I.	$\beta\alpha$ homomoretane	$C_{31}H_{54}$	(III, R=i- C_4H_9)
J.	22S $\alpha\beta$ bishomohopane	$C_{32}H_{56}$	(II, R=i- C_5H_{11})
	22R $\alpha\beta$ bishomohopane	$C_{32}H_{56}$	(II, R=i- C_5H_{11})
K.	22S $\alpha\beta$ trishomohopane	$C_{33}H_{58}$	(II, R=i- C_6H_{13})
	22R $\alpha\beta$ trishomohopane	$C_{33}H_{58}$	(II, R=i- C_6H_{13})
L.	22S $\alpha\beta$ tetrakishomohopane	$C_{34}H_{60}$	(II, R=i- C_7H_{15})
	22R $\alpha\beta$ tetrakishomohopane	$C_{34}H_{60}$	(II, R=i- C_7H_{15})
M.	22S $\alpha\beta$ pentakishomohopane	$C_{35}H_{62}$	(II, R=i- C_8H_{17})
	22R $\alpha\beta$ pentakishomohopane	$C_{35}H_{62}$	(II, R=i- C_8H_{17})
P.	Tricyclic terpene	$C_{23}H_{42}$	(V, R=i- C_4H_9)
Q.	Tricyclic terpene	$C_{24}H_{44}$	(V, R=i- C_5H_{11})
R.	Tricyclic terpene (17R, 17S)	$C_{25}H_{66}$	(V, R=i- C_6H_{13})
S.	Tetracyclic terpene	$C_{24}H_{42}$	(VI)
T.	Tricyclic terpene (17R, 17S)	$C_{26}H_{48}$	(V, R=i- C_7H_{15})
N.	Tricyclic terpene	$C_{21}H_{38}$	(V, R= C_2H_5)
O.	Tricyclic terpene	$C_{22}H_{40}$	(V, R= C_3H_7)
Y.	25,28,30-Trisnorhopane/Moretane	$C_{27}H_{46}$	(VII)
X.	Unknown triterpene	$C_{30}H_{52}$	

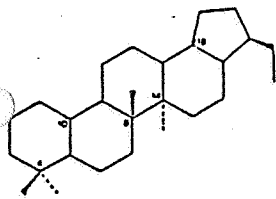
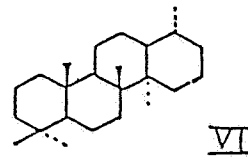
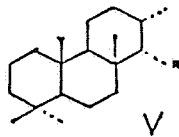
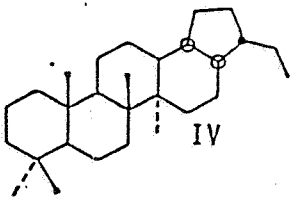
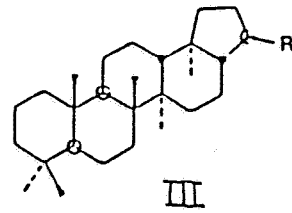
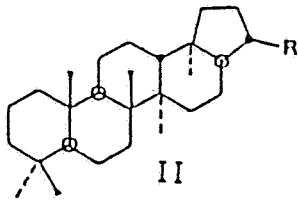
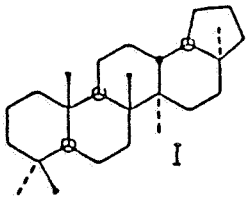
2b. Mass Fragmentograms representing Steranes

(M/Z 149, 189, 217, 218, 259, 372, 386, 400 and 414)

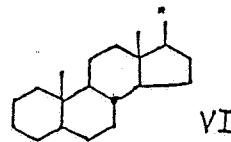
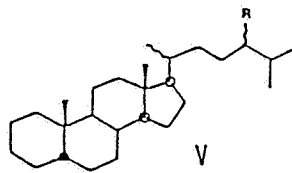
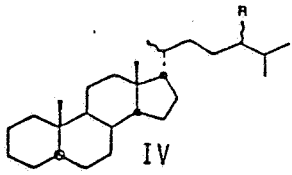
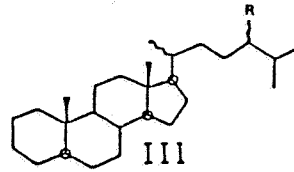
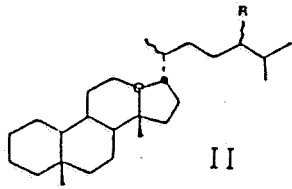
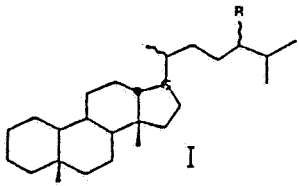
Peak identifications. (α and β refer to hydrogen atoms at C-5, C-14 and C-17 in regular steranes and at C-13 and C-17 in diasteranes).

a.	20S $\beta\alpha$ diacholestane	$C_{27}H_{48}$	(I, R=H)
b.	20R $\beta\alpha$ diacholestane	$C_{27}H_{48}$	(I, R=H)
c.	20S $\alpha\beta$ diacholestane	$C_{27}H_{48}$	(II, R=H)
d.	20R $\alpha\beta$ diacholestane	$C_{27}H_{48}$	(II, R=H)
e.	20S $\beta\alpha$ 24-methyl-diacholestane	$C_{28}H_{50}$	(I, R=CH ₃)
f.	20R $\beta\alpha$ 24-methyl-diacholestane	$C_{28}H_{50}$	(I, R=CH ₃)
g.	20S $\alpha\beta$ 24-methyl-diacholestane	$C_{28}H_{50}$	(II, R=CH ₃)
	+ 20S $\alpha\alpha\alpha$ cholestane	$C_{27}H_{48}$	(III, R=H)
h.	20S $\beta\alpha$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C ₂ H ₅)
	+20R $\alpha\beta\beta$ cholestane	$C_{27}H_{48}$	(IV, R=H)
i.	20S $\alpha\beta\beta$ cholestane	$C_{27}H_{48}$	(IV, R=H)
	+20R $\alpha\beta$ 24-methyl-diacholestane	$C_{28}H_{50}$	(II, R=CH ₃)
j.	20R $\alpha\alpha\alpha$ cholestane	$C_{27}H_{48}$	(III, R=H)
k.	20R $\beta\alpha$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(I, R=C ₂ H ₅)
l.	20S $\alpha\beta$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C ₂ H ₅)
m.	20S $\alpha\alpha\alpha$ 24-methyl-cholestane	$C_{28}H_{50}$	(III, R=CH ₃)
n.	20R $\alpha\beta\beta$ 24-methyl-cholestane	$C_{28}H_{50}$	(IV, R=CH ₃)
	+ 20R $\alpha\beta$ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C ₂ H ₅)
o.	20S $\alpha\beta\beta$ 24-methyl-cholestane	$C_{28}H_{50}$	(IV, R=CH ₃)
p.	20R $\alpha\alpha\alpha$ 24-methyl-cholestane	$C_{28}H_{50}$	(III, R=CH ₃)
q.	20S $\alpha\alpha\alpha$ 24-ethyl-cholestane	$C_{29}H_{52}$	(III, R=C ₂ H ₅)
r.	20R $\alpha\beta\beta$ 24-ethyl-cholestane	$C_{29}H_{52}$	(IV, R=C ₂ H ₅)
s.	20S $\alpha\beta\beta$ 24-ethyl-cholestane	$C_{29}H_{52}$	(IV, R=C ₂ H ₅)
t.	20R $\alpha\alpha\alpha$ 24-ethyl-cholestane	$C_{29}H_{52}$	(III, R=C ₂ H ₅)
u.	5 α sterane	$C_{21}H_{36}$	(VI, R=C ₂ H ₅)
v.	5 α sterane	$C_{22}H_{38}$	(VI, R=C ₃ H ₇)

STRUCTURES REPRESENTING TERPANES



STRUCTURES REPRESENTING STERANES

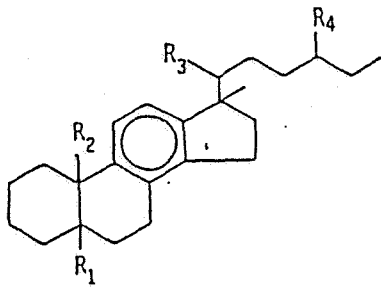
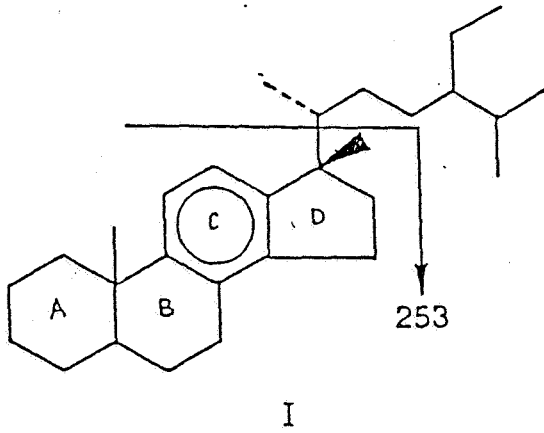


Mass Fragmentograms representing Monoaromatic Steranes
(M/Z 253)

Description of C-ring monoaromatic steroid hydrocarbons

Peak	Substituents				Abbreviation of Compound
	R ₁	R ₂	R ₃	R ₄	
A1					C ₂₁ MA
B1					C ₂₂ MA
C1	β(H)	CH ₃	S(CH ₃)	H	βSC ₂₇ MA
	CH ₃	H	S(CH ₃)	H	SC ₂₇ DMA
D1	β(H)	CH ₃	R(CH ₃)	H	βRC ₂₇ MA
	CH ₃	H	R(CH ₃)	H	RC ₂₇ DMA
	α(H)	CH ₃	S(CH ₃)	H	αSC ₂₇ MA
E1	β(H)	CH ₃	S(CH ₃)	CH ₃	βSC ₂₈ MA
	CH ₃	H	S(CH ₃)	CH ₃	SC ₂₈ DMA
F1	α(H)	CH ₃	R(CH ₃)	H	αRC ₂₇ MA
	α(H)	CH ₃	S(CH ₃)	CH ₃	αSC ₂₈ MA
G1	β(H)	CH ₃	R(CH ₃)	CH ₃	βRC ₂₈ MA
	CH ₃	H	R(CH ₃)	CH ₃	RC ₂₈ DMA
	β(H)	CH ₃	S(CH ₃)	C ₂ H ₅	βSC ₂₉ MA
	CH ₃	H	S(CH ₃)	C ₂ H ₅	SC ₂₉ DMA
H1	α(H)	CH ₃	R(CH ₃)	CH ₃	αRC ₂₈ MA
	β(H)	CH ₃	R(CH ₃)	C ₂ H ₅	βRC ₂₉ MA
	CH ₃	H	R(CH ₃)	C ₂ H ₅	RC ₂₉ DMA
I1	α(H)	CH ₃	R(CH ₃)	C ₂ H ₅	αRC ₂₉ MA

STRUCTURES REPRESENTING MONOAROMATIC STERANES:

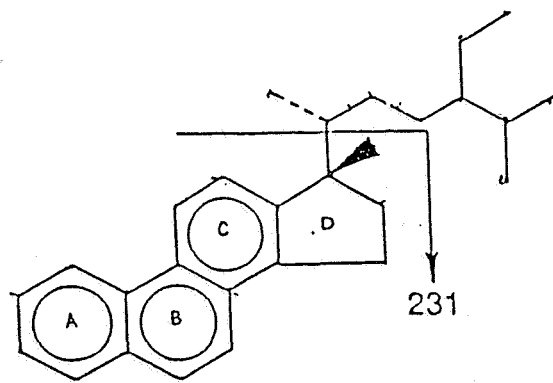


Mass Fragmentograms representing Triaromatic Steranes
(M/Z 231)

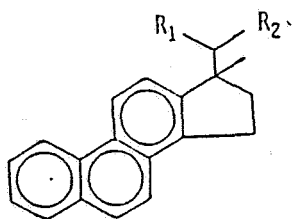
Description of ABC-ring triaromatic steroid hydrocarbons

Peak	Substituents		Abbreviation of Compound
	R ₁	R ₂	
a1	CH ₃	H	C ₂₀ TA
b1	CH ₃	CH ₃	C ₂₁ TA
c1	S(CH ₃)	C ₆ H ₁₋₃	SC ₂₆ TA
d1	R(CH ₃)	C ₆ H ₁₃	RC ₂₆ TA
	S(CH ₃)	C ₇ H ₁₅	SC ₂₇ TA
e1	S(CH ₃)	C ₈ H ₁₇	SC ₂₈ TA
f1	S(CH ₃)	C ₇ H ₁₅	RC ₂₇ TA
g1	R(CH ₃)	C ₈ H ₁₇	RC ₂₈ TA

STRUCTURES REPRESENTING TRIAROMATIC STERANES



II



List of abbreviations used for lithology description
(sorted alphabetically)

ang	= angular
bar	= Baryte (mud additive)
bl	= blue/blueish
blk	= black
br	= brittle
brn	= brown/brownish
Ca	= Carbonate (Limestone/Chalk/Dolomite/Siderite)
calc	= calcareous
carb	= carbonaceous
cem	= cement used as additive (under "Cont") or to describe cemented S/Sst
Chert	= Chert
chk	= Chalk/chalky
cly	= clayey/shaley
cngl	= conglomeratic
Coal	= Coal
Coal-ad	= Coal-like additive (e.g. chromlignosulfonate)
Congl	= Conglomerate
Cont	= Contamination
crs	= coarse grained
cvd	= caved
dd	= dried drilling mud
dol	= Dolomite/dolomitic
drk	= dark (colour)
dsk	= dusky (colour)
evap	= Salt/Gypsum/Halite (natural "Other" or as additive "Cont")
f	= fine grained
fib	= fibres (mud additive/contamination)
fis	= fissile
fos	= fossiliferous
glauc	= Glauconite/glauconitic
gn	= green/greenish
gy	= grey/greyish
hd	= hard
ign	= Igneous (material derived from igneous source)
int	= percentage interpreted from logs
Kaolin	= Kaolin(ite)
kln	= kaolinitic
l	= loose
lam	= laminated/laminae
lt	= light (colour)
m	= medium (colour or grain size)

List of abbreviations used for lithology description
(sorted alphabetically)

Marl	= Marl (calcareous claystone/mudstone)
mic	= micaceous
Mica-ad	= Mica used as mud additive
mrl	= marly
No Mat.	= No material left after washing
ns	= nutshells (mud additive)
ol	= olive
ool	= Oolite/oolitic
or	= orange
Other	= Other lithology/mineral, specified after this word
pi	= pink/pinkish
pl	= pale (colour)
prp	= paint/rust/plastic contamination/additives
pu	= purple
pyr	= Pyrite/pyritic
red	= red/reddish
rnd	= round/rounded
s	= sandy
S/Sst	= Sand and/or sandstone
Sh/Clst	= Shale and/or claystone
sid	= Siderite/sideritic
sil	= siliceous/cherty
slt	= silty
Sltst	= Siltstone
st	= stained (with natural oil or oil-like additive)
tar-ad	= Tar-like additive (e.g. "Black Magic")
Tuff	= Tuff
tuff	= tuffaceous
v col	= Various colours
w	= white
wx	= waxy
y	= yellow/yellowish