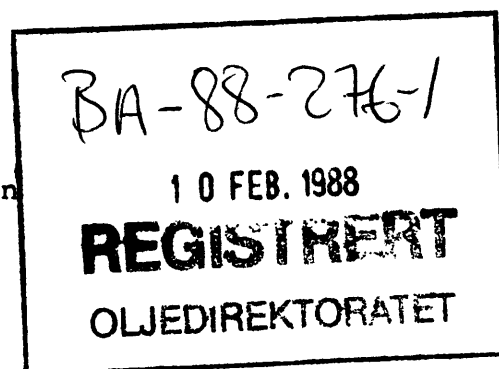


PRE-CRETACEOUS HYDROCARBON POTENTIAL
OF THE NORWEGIAN CENTRAL GRABEN

GEOCHEMICAL ANALYSIS
Well NOCS 2/10-1 - S

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Date : November 1987

INTRODUCTION

Well 2/10-1 is from the Norwegian sector of the North Sea, south west of the Hod Oil Field in the Central Graben Area.

A total of 110 cuttings samples was collected at the Norwegian Petroleum Directorate. All samples collected were described (1500 - 4609 m). The sample interval was 100 m down to 4100 m and mostly 3 m below that.

A careful selection of samples was made for screening analysis. 44 samples were selected for Rock-Eval and Total Organic Carbon analysis. From the data obtained a number of samples were chosen for further analysis as follows:

Thermal extraction - pyrolysis - gas chromatography	9 samples
Extraction, MPLC fractionation, saturated and aromatic hydrocarbon gas chromatography	5 samples
Vitrinite reflectance microscopy	27 samples
Visual kerogen analysis	15 samples

Tables, listing in detail which samples were analysed and the results from the analyses are shown in the Appendix.

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1500.00						001
				50 Sh/Clst: lt gy to m drk gy, pl gn gy, calc, carb, mic, prp		001-1L
				30 Cont : st, dd		001-4L
				10 Ca : w		001-2L
				10 Sh/Clst: lt brn gy to drk brn gy		001-3L
1591.00						002
				80 Sh/Clst: lt gy, lt brn gy to m brn gy, calc, mic, prp		002-1L
	4.45			10 Sh/Clst: brn blk, drk brn gy		002-2L
				10 Cont : st, dd		002-3L
1682.00						003
				80 Sh/Clst: lt gy, lt brn gy to m brn gy, calc, mic, prp		003-1L
				10 Sh/Clst: brn blk, drk brn gy		003-2L
				10 Cont : st, dd		003-3L
1774.00						004
				50 Sh/Clst: lt brn gy to drk brn gy, calc		004-1L
				50 Cont : dd		004-2L
1874.00						005
				50 Cont : dd		005-3L
				40 Sh/Clst: lt gy to m gy, lt brn gy, drk brn gy, calc		005-1L
				10 Sh/Clst: brn blk, calc		005-2L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1975.00						006
	4.87			50 Cont : dd 40 Sh/Clst: brn blk 10 Sh/Clst: lt gy to m gy, lt brn gy, m brn gy, calc		006-3L 006-1L 006-2L
2076.00						007
				50 Cont : dd 30 Sh/Clst: lt gy to m gy, lt brn gy, drk brn gy, calc 20 Sh/Clst: brn blk		007-3L 007-1L 007-2L
2176.00						008
				30 Sh/Clst: lt gy to m gy, lt brn gy, calc 30 Sh/Clst: brn blk, drk brn gy 20 Ca : lt gy, drk y gn, chk 20 Cont : dd		008-1L 008-2L 008-3L 008-4L
2277.00						009
				30 Sh/Clst: lt gy to m gy, lt brn gy, calc 30 Sh/Clst: brn blk, drk brn gy 20 Ca : lt gy, drk y gn, chk 20 Cont : dd		009-1L 009-2L 009-3L 009-4L
2377.00						010
				80 Sh/Clst: lt gy to m gy, lt brn gy to m brn gy, calc 10 Sh/Clst: drk brn gy 10 Cont : dd		010-1L 010-2L 010-3L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2478.00						011
		2.55		80 Sh/Clst: ol blk 20 Sh/Clst: brn blk, pyr tr Coal : blk		011-1L 011-2L 011-3L
2578.00						012
				90 Sh/Clst: ol gy, m gy to m drk gy 10 Sh/Clst: drk brn gy tr Cont : w		012-1L 012-2L 012-3L
2679.00						013
				90 Sh/Clst: ol gy, m gy to m drk gy 10 Sh/Clst: drk brn gy tr Cont : w		013-1L 013-2L 013-3L
2780.00						014
				80 Sh/Clst: ol gy, calc, slt, mic 10 Ca : lt gy, drk y brn 10 Cont : prp		014-1L 014-2L 014-3L
2880.00						015
				70 Sh/Clst: ol gy, slt 20 Sh/Clst: brn gy, mic 10 Ca : drk y brn		015-1L 015-2L 015-3L
2981.00						016
		0.94		40 Sh/Clst: ol gy, slt 30 Sh/Clst: brn gy, mic 30 Ca : lt gy, drk y brn		016-1L 016-2L 016-3L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3081.00						017	
		80	Sh/Clst:	ol gy, lt gy, slt		017-1L	
		10	Sh/Clst:	brn gy, mic		017-2L	
		10	Ca	: lt gy, drk y brn		017-3L	
3182.00						018	
		70	Sh/Clst:	ol gy, lt gy, slt		018-1L	
		20	Sh/Clst:	brn gy, mic		018-2L	
		10	Cont	: prp		018-3L	
3277.00						019	
	1.09	80	Sh/Clst:	ol gy, lt gy, mic		019-1L	
		10	Sh/Clst:	brn gy, mic		019-2L	
		10	Sh/Clst:	gy red		019-3L	
3377.00						020	
		90	Ca	: w, gy pi, chk		020-1L	
		10	Sh/Clst:	gy red, brn gy, ol gy, lt gy		020-2L	
3475.00						021	
		90	Ca	: w, gy pi, chk		021-1L	
		10	Sh/Clst:	gy red, brn gy, ol gy, lt gy		021-2L	
3575.00						022	
		90	Ca	: w, gy pi, chk		022-1L	
		10	Sh/Clst:	gy red, brn gy, ol gy, lt gy		022-2L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3676.00						023	
		90	Ca		: w, gy pi, chk	023-1L	
		10	Sh/Clst:		gy red, brn gy, ol gy, lt gy	023-2L	
3776.00						024	
		60	Ca		: w, gy pi, chk	024-1L	
		40	Sh/Clst:		gy red, brn gy, ol gy, lt gy	024-2L	
3877.00						025	
		90	Ca		: w, gy pi	025-1L	
		10	Sh/Clst:		lt gy	025-2L	
3978.00						026	
		90	Ca		: w, gy pi	026-1L	
		10	Sh/Clst:		lt gy	026-2L	
4078.00						027	
		80	Ca		: w, gy pi	027-1L	
		20	Sh/Clst:		lt gy	027-2L	
4099.00						028	
		90	Ca		: w, gy pi, red brn	028-1L	
		10	Sh/Clst:		lt gy to drk gy pi	028-2L	
4103.00						029	
		90	Ca		: w, gy pi, red brn	029-1L	
		10	Sh/Clst:		lt gy to drk gy pi	029-2L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4109.00						030
		1.09		70 Sh/Clst: gy red 20 Ca : w 10 Sh/Clst: lt gy to drk gy tr Cont : prp		030-1L 030-2L 030-3L 030-4L
4115.00						031
				50 Sh/Clst: gy red 50 Ca : w, gy pi tr Sh/Clst: drk gy		031-1L 031-2L 031-3L
4121.00						032
		0.69		40 Sh/Clst: gy red 40 Ca : w, gy pi 20 Sh/Clst: lt gy to drk gy, pl gn gy		032-1L 032-2L 032-3L
4127.00						033
				40 Sh/Clst: gy red 40 Ca : w, gy pi 20 Sh/Clst: lt gy to drk gy, pl gn gy		033-1L 033-2L 033-3L
4133.00						034
				60 Sh/Clst: gy red 30 Sh/Clst: lt gy to m gy, pl gn gy 10 Ca : w		034-1L 034-2L 034-3L
4139.00						035
				50 Sh/Clst: gy red 30 Sh/Clst: lt gy to m gy, pl gn gy 20 Ca : w		035-1L 035-2L 035-3L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4145.00						036
				90 Sh/Clst: gy red, brn gy, mic		036-1L
				10 Sh/Clst: dsk y brn		036-2L
4151.00						037
				40 Sh/Clst: gy red		037-1L
				30 Sh/Clst: lt gy to m gy		037-2L
				30 Ca : w		037-3L
				tr Cont : prp		037-4L
4157.00						038
				60 Sh/Clst: gy red		038-1L
				30 Ca : w		038-2L
				10 Sh/Clst: lt gy to m gy		038-3L
				tr Cont : prp		038-4L
4163.00						039
				60 Sh/Clst: gy red		039-1L
				30 Ca : w		039-2L
				10 Sh/Clst: lt gy to m gy		039-3L
				tr Cont : prp		039-4L
4170.00						040
				80 Sh/Clst: gy red		040-1L
				20 Sh/Clst: lt gy to m gy		040-2L
				tr Ca : w		040-3L
				tr Cont : prp		040-4L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4176.00						041
				80 Sh/Clst: gy red		041-1L
				20 Sh/Clst: lt gy to m gy		041-2L
				tr Ca : w		041-3L
				tr Cont : prp		041-4L
4182.00						042
				50 Sh/Clst: gy red		042-1L
	0.81			40 Sh/Clst: lt gy to drk gy		042-2L
				10 Ca : w		042-3L
				tr Cont : prp		042-4L
4188.00						043
				60 Sh/Clst: lt gy to drk gy		043-1L
				30 Sh/Clst: gy red		043-2L
				10 Ca : w		043-3L
				tr Cont : prp		043-4L
4194.00						044
				80 Sh/Clst: gy red		044-1L
				20 Sh/Clst: lt gy to m gy		044-2L
4203.00						045
				80 Sh/Clst: gy red		045-1L
				20 Sh/Clst: lt gy to m gy		045-2L
4206.00						046
				80 Sh/Clst: gy red		046-1L
				20 Sh/Clst: lt gy to m gy		046-2L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4212.00						047	
		80	Sh/Clst: gy red			047-1L	
		20	Sh/Clst: lt gy to m gy			047-2L	
4218.00						048	
		80	Sh/Clst: gy red			048-1L	
		20	Sh/Clst: lt gy to m gy			048-2L	
4224.00						049	
		80	Sh/Clst: gy red			049-1L	
		20	Sh/Clst: lt gy to m gy			049-2L	
4243.00						050	
		60	Sh/Clst: lt gy to drk gy			050-1L	
		40	Sh/Clst: gy red			050-2L	
4249.00						051	
	0.36	60	Sh/Clst: gy red			051-2L	
		40	Sh/Clst: lt gy to drk gy			051-1L	
4255.00						052	
	0.43	50	Sh/Clst: lt gy to drk gy			052-1L	
		50	Sh/Clst: gy red			052-2L	
4261.00						053	
	0.36	70	Sh/Clst: gy red, calc, pyr			053-2L	
		20	Sh/Clst: lt gy to drk gy			053-1L	
		10	Cont : prp, dd			053-3L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4267.00						054	
	5.08	60	Sh/Clst:	gy red		054-1L	
		30	Sh/Clst:	lt gy to m gy, calc, pyr		054-2L	
		10	Sh/Clst:	drk gy		054-3L	
4273.00						055	
	3.29	30	Sh/Clst:	gy red		055-1L	
		30	Sh/Clst:	lt gy to m gy, calc, pyr		055-2L	
		20	Sh/Clst:	gy blk to brn blk		055-3L	
		20	Cont	: prp, dd		055-4L	
4279.00						056	
	2.04	40	Sh/Clst:	gy red		056-1L	
		40	Sh/Clst:	lt gy to m gy, calc, pyr		056-2L	
		10	Sh/Clst:	gy blk, pyr, fis		056-3L	
		10	Cont	: slt, prp, dd		056-4L	
4285.00						057	
	1.83	40	Sh/Clst:	gy red		057-1L	
		30	Sh/Clst:	lt gy to m gy, calc		057-2L	
		20	Cont	: Coal-ad, dd		057-4L	
		10	Sh/Clst:	ol blk, drk gy		057-3L	
4291.00						058	
	0.70	40	Sh/Clst:	lt gy to drk gy, calc		058-1L	
		40	Sh/Clst:	gy red		058-2L	
	5.13	10	Sh/Clst:	brn blk		058-3L	
		10	Cont	: Coal-ad, dd		058-4L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4298.00						059	
		30	Sh/Clst:	lt gy to drk gy, calc		059-1L	
		30	Sh/Clst:	gy red		059-2L	
		30	Cont	: Coal-ad, dd		059-4L	
	3.66	10	Sh/Clst:	brn blk		059-3L	
4304.00						060	
		40	Sh/Clst:	lt gy to drk gy, calc		060-1L	
		40	Sh/Clst:	gy red		060-2L	
	1.95	10	Sh/Clst:	brn blk		060-3L	
		10	Cont	: Coal-ad, prp, dd, fib		060-4L	
4310.00						061	
		30	Sh/Clst:	lt gy to drk gy		061-1L	
	1.82	30	Sh/Clst:	brn blk, calc		061-2L	
		20	Sh/Clst:	gy red		061-3L	
		10	Cont	: Coal-ad, prp, dd, fib		061-4L	
		10	Kaolin	: w		061-5L	
4319.00						062	
		60	Sh/Clst:	gy red, brn gy		062-1L	
		30	Sh/Clst:	m gy		062-2L	
		10	Sh/Clst:	drk brn gy, brn blk		062-3L	
		tr	Cont	: Coal-ad, prp, dd, fib		062-4L	
4322.00						063	
		40	Sh/Clst:	gy red, brn gy		063-1L	
		40	Sh/Clst:	m gy		063-2L	
		10	Sh/Clst:	brn blk, drk brn gy		063-3L	
		10	Cont	: Coal-ad, prp, dd, fib		063-4L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4328.00						064
		2.44		40 Sh/Clst: lt gy to m gy		064-1L
				30 Sh/Clst: gy red, brn gy		064-2L
				20 Sh/Clst: brn blk, drk brn gy		064-3L
				10 Cont : Coal-ad, prp, dd, fib		064-4L
4334.00						065
				40 Sh/Clst: lt gy to m gy		065-1L
				30 Sh/Clst: gy red, brn gy		065-2L
				20 Sh/Clst: brn blk, drk brn gy		065-3L
				10 Cont : Coal-ad, prp, dd, fib		065-4L
4340.00						066
				40 Sh/Clst: lt gy to m gy		066-1L
				30 Sh/Clst: gy red, brn gy		066-2L
				20 Sh/Clst: brn blk, drk brn gy		066-3L
				10 Cont : Coal-ad, prp, dd, fib		066-4L
4346.00						067
		1.48		40 Sh/Clst: gy red, brn gy		067-1L
				30 Sh/Clst: ol gy, lt gy to m gy, calc		067-2L
				10 Sh/Clst: gy blk		067-3L
				10 S/Sst : w, calc, f		067-4L
				10 Cont : Coal-ad, prp, dd, fib		067-5L
4352.00						068
				40 Sh/Clst: gy red, brn gy		068-1L
				40 Sh/Clst: ol gy, lt gy to m gy, calc		068-2L
				10 Sh/Clst: gy blk		068-3L
				10 Cont : Coal-ad, prp, dd, fib		068-4L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4359.00						069	
			40	Sh/Clst: gy red, brn gy		069-1L	
			40	Sh/Clst: ol gy, lt gy to m gy, calc		069-2L	
			10	Sh/Clst: gy blk		069-3L	
			10	Cont : Coal-ad, prp, dd, fib		069-4L	
4362.00						070	
			50	Sh/Clst: ol gy, lt gy to m gy, calc		070-1L	
			30	Sh/Clst: gy red, brn gy		070-2L	
			10	S/Sst : w, calc, f, crs		070-3L	
			10	Cont : prp, fib		070-4L	
4371.00						071	
	1.16		50	Sh/Clst: gy red, brn gy		071-1L	
			30	Sh/Clst: ol gy, lt gy to drk gy, calc		071-2L	
			20	Cont : Coal-ad, prp, dd, fib		071-3L	
4377.00						072	
			50	Sh/Clst: gy red, brn gy		072-1L	
			40	Sh/Clst: ol gy, lt gy to drk gy, calc		072-2L	
			10	Cont : Coal-ad, prp, dd, fib		072-3L	
4383.00						073	
	0.59		50	Sh/Clst: ol gy, lt gy to drk gy, calc		073-1L	
			30	Sh/Clst: gy red		073-2L	
			20	Sh/Clst: gy blk to brn blk, calc		073-3L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4389.00						074	
	3.84		50	Sh/Clst:	gy red	074-1L	
			30	Sh/Clst:	ol gy, lt gy to drk gy, calc	074-2L	
			20	Sh/Clst:	gy blk to brn blk, calc	074-3L	
			tr	Cont	: prp	074-4L	
4395.00						075	
			50	Sh/Clst:	gy red	075-1L	
			30	Sh/Clst:	ol gy, lt gy to drk gy, calc	075-2L	
			20	Sh/Clst:	gy blk to brn blk, calc	075-3L	
			tr	Cont	: prp	075-4L	
4401.00						076	
	0.49		50	Sh/Clst:	gy red	076-1L	
			40	Sh/Clst:	ol gy, lt gy to drk gy, pl gn gy, calc	076-2L	
			10	Cont	: Coal-ad, prp, dd, fib	076-4L	
			tr	Sh/Clst:	gy blk to brn blk, calc	076-3L	
4407.00						077	
	0.61		40	Sh/Clst:	gy red, slt, s	077-1L	
			40	Sh/Clst:	ol gy, lt gy to drk gy, pl gn gy, calc	077-2L	
			10	S/Sst	: w to lt y brn, mic, f	077-3L	
			10	Cont	: Coal-ad, prp, dd, fib	077-4L	
4413.00						078	
			40	Sh/Clst:	gy red, slt, s	078-1L	
			40	Sh/Clst:	ol gy, lt gy to drk gy, pl gn gy, calc	078-2L	
			10	S/Sst	: w to lt y brn, mic, f	078-3L	
			10	Cont	: Coal-ad, prp, dd, fib	078-4L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4420.00						079
		2.13		40 Sh/Clst: gy red, m brn, slt, s		079-1L
				30 Sh/Clst: ol gy, lt gy, pl gn gy, calc		079-2L
				20 Sh/Clst: drk gy		079-3L
				5 Ca : w, gy pi, lt gy		079-4L
				5 Cont : prp, dd, fib		079-6L
				tr Other : brn, ign		079-5L
4426.00						080
		1.65		40 Sh/Clst: gy red, m brn, slt, s		080-1L
				20 Sh/Clst: drk gy		080-2L
				20 Tuff : gy red, gn gy, ign		080-3L
				10 Sh/Clst: ol gy, lt gy, pl gn gy, calc		080-4L
				10 Cont : prp, dd, fib		080-5L
4429.00						081
		1.64		50 Sh/Clst: gy red, m brn, slt, s		081-1L
				20 Sh/Clst: ol gy, lt gy, pl gn gy, calc		081-2L
				10 Tuff : w, gy red, gn gy, ign		081-3L
				10 Sh/Clst: drk gy		081-4L
				10 Cont : prp, dd, fib		081-5L
4438.00						082
		0.85		50 Sh/Clst: gy blk, drk gy, drk gn gy, ign, sil		082-1L
				20 Sh/Clst: ol gy, lt gy, calc		082-2L
				20 Sh/Clst: gy red, m brn		082-3L
				10 Cont : prp, dd		082-4L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4444.00						083
		0.91		40 Sh/Clst: gy red, m brn 30 Sh/Clst: ol gy, lt gy, calc 30 Sh/Clst: gy blk, drk gy, drk gn gy, ign, sil		083-2L 083-3L 083-4L
4450.00						084
		1.19		60 Sh/Clst: gy red, m brn 20 Sh/Clst: ol gy, lt gy, calc 10 Sh/Clst: drk gy, ign, sil 10 Cont : prp, dd		084-2L 084-3L 084-4L 084-5L
4456.00						085
				60 Sh/Clst: gy red, m brn 20 Sh/Clst: ol gy, lt gy, calc 10 Sh/Clst: drk gy, ign, sil 10 Cont : prp, dd		085-1L 085-2L 085-3L 085-4L
4462.00						086
		0.69		40 Sh/Clst: gy red, m brn, pl gn gy, ign 30 Sh/Clst: ol gy, lt gy, calc 20 Sh/Clst: m gy to drk gy, ign, sil 10 Cont : prp, dd		086-1L 086-2L 086-3L 086-4L
4468.00						087
		1.30		40 Sh/Clst: gy red, m brn, pl gn gy, ign 30 Sh/Clst: ol gy, lt gy, calc 30 Sh/Clst: m gy to drk gy, ign, sil		087-1L 087-2L 087-3L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4474.00						088
				40 Sh/Clst: gy red, m brn, pl gn gy, ign		088-1L
				30 Sh/Clst: ol gy, lt gy, calc		088-2L
				30 Sh/Clst: m gy to drk gy, ign, sil		088-3L
4480.00						089
	1.05			50 Sh/Clst: gy red, m brn, pl gn gy, ign		089-1L
				20 Sh/Clst: m gy to drk gy, sil		089-2L
				20 Sh/Clst: ol gy, lt gy, calc		089-3L
				10 Cont : prp, dd		089-4L
4487.00						090
				50 Sh/Clst: gy red, m brn, pl gn gy, ign		090-1L
				20 Sh/Clst: m gy to drk gy, sil		090-2L
				20 Sh/Clst: ol gy, lt gy, calc		090-3L
				10 Cont : prp, dd		090-4L
4493.00						091
	0.99			50 Sh/Clst: gy red, m brn, pl gn gy, ign		091-1L
				20 Sh/Clst: ol gy, lt gy		091-2L
				20 Sh/Clst: m gy to drk gy, sil		091-3L
				10 Cont : prp, dd		091-4L
4499.00						092
				50 Sh/Clst: gy red, m brn, pl gn gy, ign		092-1L
				20 Sh/Clst: ol gy, lt gy		092-2L
				20 Sh/Clst: m gy to drk gy, sil		092-3L
				10 Cont : prp, dd		092-4L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4505.00						093	
			50	Sh/Clst: gy red, m brn, pl gn gy, ign		093-1L	
			20	Sh/Clst: ol gy, lt gy		093-2L	
			20	Sh/Clst: m gy to drk gy, sil		093-3L	
			10	Cont : prp, dd		093-4L	
4511.00						094	
			50	Sh/Clst: gy red, m brn, pl gn gy, fos, s, ign		094-1L	
	0.96		20	Sh/Clst: m gy to drk gy, sil		094-2L	
			20	Sh/Clst: ol gy, lt gy		094-3L	
			10	Cont : Coal-ad, prp, dd		094-4L	
4517.00						095	
			60	Sh/Clst: gy red, m brn, slt, s		095-1L	
			20	Tuff : ol gy, ign		095-2L	
			10	Sh/Clst: ol gy, lt gy, calc		095-3L	
			10	Sh/Clst: m gy to drk gy, sil		095-4L	
4523.00						096	
			60	Sh/Clst: gy red, m brn, slt, s		096-1L	
			20	Tuff : ol gy, ign		096-2L	
	0.58		20	Sh/Clst: m gy to drk gy, sil		096-3L	
4529.00						097	
			75	Sh/Clst: gy red, m brn, pl gn gy, slt, s, mic		097-1L	
			10	Tuff : ol gy, ign		097-2L	
			10	Sh/Clst: drk gy, sil		097-3L	
			5	Cont : Coal-ad, prp, dd		097-4L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
4538.00						098	
	0.59	40	Sh/Clst: gy red, m brn, pl gn gy, slt, s, mic			098-2L	
	1.75	30	Sh/Clst: gy blk, evap, fis			098-1L	
		20	Cont : Coal-ad, prp, dd, fib			098-4L	
		10	Sh/Clst: m gy to drk gy, sil			098-3L	
4541.00						099	
		30	Sh/Clst: gy red, m brn, pl gn gy, slt, s, mic			099-1L	
		30	Sh/Clst: m gy to drk gy, sil			099-2L	
	1.15	20	Sh/Clst: gy blk, wx, fis			099-3L	
		10	Sh/Clst: ol gy, lt gy, calc			099-4L	
		10	Cont : Coal-ad, prp, dd, fib			099-5L	
4548.00						100	
		40	Sh/Clst: gy red, pl brn, slt, s, mic			100-1L	
		30	Sh/Clst: m gy to drk gy, sil			100-2L	
	1.44	10	Sh/Clst: gy blk, fis			100-3L	
		10	Sh/Clst: ol gy, lt gy, calc			100-4L	
		10	Cont : Coal-ad, prp, dd, fib			100-5L	
4554.00						101	
		40	Sh/Clst: gy red, pl brn, slt, s, mic			101-1L	
		30	Sh/Clst: m gy to drk gy, sil			101-2L	
		10	Sh/Clst: gy blk, fis			101-3L	
		10	Sh/Clst: ol gy, lt gy, calc			101-4L	
		10	Cont : Coal-ad, prp, dd, fib			101-5L	

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4560.00						102
				40 Sh/Clst: gy red, pl brn, slt, s, mic		102-1L
				30 Sh/Clst: m gy to drk gy, sil		102-2L
				10 Sh/Clst: gy blk, fis		102-3L
				10 Sh/Clst: ol gy, lt gy, calc		102-4L
				10 Cont : Coal-ad, prp, dd, fib		102-5L
4566.00						103
				60 Sh/Clst: gy red, pl brn, slt, s, mic		103-1L
				20 Cont : Coal-ad, prp, dd, fib		103-4L
	1.27			10 Sh/Clst: m gy to drk gy		103-2L
				10 Sh/Clst: ol gy, lt gy, calc		103-3L
4572.00						104
				60 Sh/Clst: gy red, pl brn, slt, s, mic		104-1L
				20 Cont : Coal-ad, prp, dd, fib		104-4L
				10 Sh/Clst: m gy to drk gy		104-2L
				10 Sh/Clst: ol gy, lt gy, calc		104-3L
4578.00						105
				50 Sh/Clst: gy red, pl brn, m gn, slt, s, mic		105-1L
	0.61			20 Sh/Clst: m gy to drk gy		105-2L
				20 Sh/Clst: ol gy, lt gy, calc		105-3L
				10 Cont : Coal-ad, prp, dd, fib		105-4L
4581.00						107
				80 Sh/Clst: gy red, m gn, pl brn, slt, s, mic		107-1L
				20 Sh/Clst: ol gy, lt gy to m gy, calc		107-2L
				tr Sh/Clst: blk, wx		107-3L
				tr Cont : prp, dd, fib		107-4L

Table 1 : Lithology description for well NOCS 2/10-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4584.00						106
				50 Sh/Clst: gy red, pl brn, m gn, slt, s, mic		106-1L
				20 Sh/Clst: m gy to drk gy		106-2L
				20 Sh/Clst: ol gy, lt gy, calc		106-3L
				10 Cont : Coal-ad, prp, dd, fib		106-4L
4596.00						108
				50 Sh/Clst: gy red, m gn, pl brn, slt, s, mic		108-1L
				30 Cont : Coal-ad, prp, dd, fib		108-4L
				10 Sh/Clst: m gy to drk gy		108-2L
				10 Sh/Clst: ol gy, lt gy, calc		108-3L
4602.00						109
				50 Sh/Clst: gy red, m gn, pl brn, slt, s, mic		109-1L
				30 Cont : Coal-ad, prp, dd, fib		109-4L
				10 Sh/Clst: m gy to drk gy		109-2L
				10 Sh/Clst: ol gy, lt gy, calc		109-3L
4609.00						110
				50 Sh/Clst: gy red, m gn, pl brn, slt, s, mic		110-1L
				30 Cont : Coal-ad, prp, dd, fib		110-4L
				10 Sh/Clst: m gy to drk gy		110-2L
				10 Sh/Clst: ol gy, lt gy, calc		110-3L

Table 2 : Rock-Eval table for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1591.00	cut	Sh/Clst: brn blk, drk brn gy	2.58	7.25	2.19	3.31	4.45	163	49	9.8	0.26	428	002-2L
1975.00	cut	Sh/Clst: brn blk	3.60	7.81	2.01	3.89	4.87	160	41	11.4	0.32	430	006-1L
2478.00	cut	Sh/Clst: brn blk	2.44	3.18	1.69	1.88	2.55	125	66	5.6	0.43	428	011-2L
2981.00	cut	Sh/Clst: ol gy	0.27	0.53	1.08	0.49	0.94	56	115	0.8	0.34	425	016-1L
3277.00	cut	Sh/Clst: ol gy, lt gy	0.17	0.80	0.76	1.05	1.09	73	70	1.0	0.18	430	019-1L
4121.00	cut	Sh/Clst: lt gy to drk gy, pl gn gy	0.61	0.64	0.33	1.94	0.69	93	48	1.3	0.49	380	032-3L
4182.00	cut	Sh/Clst: lt gy to drk gy	0.25	0.51	0.31	1.65	0.81	63	38	0.8	0.33	432	042-2L
4249.00	cut	Sh/Clst: lt gy to drk gy	0.16	0.13	0.32	0.41	0.36	36	89	0.3	0.55	400	051-1L
4255.00	cut	Sh/Clst: lt gy to drk gy	0.41	0.24	0.34	0.71	0.43	56	79	0.6	0.63	337	052-1L
4261.00	cut	Sh/Clst: lt gy to drk gy	0.44	0.24	0.50	0.48	0.36	67	139	0.7	0.65	337	053-1L
4267.00	cut	Sh/Clst: drk gy	3.71	11.95	0.71	16.83	5.08	235	14	15.7	0.24	436	054-3L
4273.00	cut	Sh/Clst: gy blk to brn blk	3.55	7.18	0.64	11.22	3.29	218	19	10.7	0.33	437	055-3L
4279.00	cut	Sh/Clst: gy blk	2.89	3.26	0.49	6.65	2.04	160	24	6.2	0.47	436	056-3L
4285.00	cut	Sh/Clst: ol blk, drk gy	3.81	4.13	0.89	4.64	1.83	226	49	7.9	0.48	436	057-3L
4291.00	cut	Sh/Clst: lt gy to drk gy	1.67	1.23	0.47	2.62	0.70	176	67	2.9	0.58	340	058-1L

Table 2 : Rock-Eval table for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4291.00	cut	Sh/Clst: brn blk	5.89	13.62	0.90	15.13	5.13	265	18	19.5	0.30	439	058-3L
4298.00	cut	Sh/Clst: brn blk	5.18	9.66	0.83	11.64	3.66	264	23	14.8	0.35	436	059-3L
4304.00	cut	Sh/Clst: brn blk	3.19	3.95	0.58	6.81	1.95	203	30	7.1	0.45	440	060-3L
4310.00	cut	Sh/Clst: brn blk	2.85	3.48	0.56	6.21	1.82	191	31	6.3	0.45	440	061-2L
4328.00	cut	Sh/Clst: brn blk, drk brn gy	2.61	4.82	0.33	14.61	2.44	198	14	7.4	0.35	438	064-3L
4346.00	cut	Sh/Clst: gy blk	1.72	2.59	0.36	7.19	1.48	175	24	4.3	0.40	439	067-3L
4371.00	cut	Sh/Clst: ol gy, lt gy to drk gy	3.44	3.26	0.34	9.59	1.16	281	29	6.7	0.51	354	071-2L
4383.00	cut	Sh/Clst: ol gy, lt gy to drk gy	0.95	0.78	0.36	2.17	0.59	132	61	1.7	0.55	350	073-1L
4389.00	cut	Sh/Clst: gy blk to brn blk	4.46	10.29	0.40	25.73	3.84	268	10	14.9	0.30	439	074-3L
4401.00	cut	Sh/Clst: ol gy, lt gy to drk gy, pl gn gy	0.97	0.36	0.28	1.29	0.49	73	57	1.3	0.73	338	076-2L
4407.00	cut	Sh/Clst: ol gy, lt gy to drk gy, pl gn gy	1.04	0.55	0.24	2.29	0.61	90	39	1.6	0.65	342	077-2L
4420.00	cut	Sh/Clst: drk gy	2.53	3.82	0.26	14.69	2.13	179	12	6.3	0.40	439	079-3L
4426.00	cut	Sh/Clst: drk gy	2.22	2.51	0.27	9.30	1.65	152	16	4.7	0.47	439	080-2L
4429.00	cut	Sh/Clst: drk gy	2.53	2.60	0.18	14.44	1.64	159	11	5.1	0.49	438	081-4L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4438.00	cut	Sh/Clst: gy blk, drk gy, drk gn gy	2.22	0.85	0.10	8.50	0.85	100	12	3.1	0.72	328	082-1L
4444.00	cut	Sh/Clst: gy blk, drk gy, drk gn gy	1.93	0.58	0.17	3.41	0.91	64	19	2.5	0.77	329	083-4L
4450.00	cut	Sh/Clst: drk gy	2.52	1.26	0.08	15.75	1.19	106	7	3.8	0.67	442	084-4L
4462.00	cut	Sh/Clst: m gy to drk gy	1.66	0.77	0.15	5.13	0.69	112	22	2.4	0.68	330	086-3L
4468.00	cut	Sh/Clst: m gy to drk gy	1.97	2.05	0.17	12.06	1.30	158	13	4.0	0.49	440	087-3L
4480.00	cut	Sh/Clst: m gy to drk gy	1.90	1.52	0.12	12.67	1.05	145	11	3.4	0.56	441	089-2L
4493.00	cut	Sh/Clst: m gy to drk gy	1.89	1.22	0.13	9.38	0.99	123	13	3.1	0.61	440	091-3L
4511.00	cut	Sh/Clst: m gy to drk gy	1.72	1.12	0.17	6.59	0.96	117	18	2.8	0.61	405	094-2L
4523.00	cut	Sh/Clst: m gy to drk gy	1.80	0.69	0.14	4.93	0.58	119	24	2.5	0.72	329	096-3L
4538.00	cut	Sh/Clst: gy blk	2.11	0.76	0.15	5.07	1.75	43	9	2.9	0.74	344	098-1L
4538.00	cut	Sh/Clst: gy red, m brn, pl gn gy	1.72	0.70	0.18	3.89	0.59	119	31	2.4	0.71	328	098-2L
4541.00	cut	Sh/Clst: gy blk	2.07	0.90	0.07	12.86	1.15	78	6	3.0	0.70	328	099-3L
4548.00	cut	Sh/Clst: gy blk	1.83	0.66	0.13	5.08	1.44	46	9	2.5	0.73	341	100-3L
4566.00	cut	Sh/Clst: m gy to drk gy	2.32	0.95	0.17	5.59	1.27	75	13	3.3	0.71	337	103-2L
4578.00	cut	Sh/Clst: m gy to drk gy	1.14	0.53	0.38	1.39	0.61	87	62	1.7	0.68	337	105-2L

Table 3 a: Weight of EOM and Chromatographic Fraction for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
4450.00	com	Composite sample - see table 3 e	2.5	23.7	5.4	1.9	0.4	16.0	7.3	16.4	2.34	112-0B
4493.00	com	Composite sample - see table 3 e	0.9	8.0	2.9	1.2	0.5	3.4	4.1	3.9	2.10	111-0B
4523.00	com	Composite sample - see table 3 e	2.8	20.8	8.5	2.6	0.6	9.1	11.1	9.7	2.37	113-0B
4548.00	com	Composite sample - see table 3 e	2.3	16.6	4.7	2.3	0.6	9.0	7.0	9.6	2.27	114-0B
4578.00	com	Composite sample - see table 3 e	3.5	18.2	5.4	2.2	0.3	10.3	7.6	10.6	1.38	115-0B

Table 3 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4450.00	com	Composite sample - see table 3 e	9404	2142	753	158	6349	2896	6507	112-0B
4493.00	com	Composite sample - see table 3 e	9302	3348	1395	581	3976	4744	4558	111-0B
4523.00	com	Composite sample - see table 3 e	7298	2982	912	210	3192	3894	3403	113-0B
4548.00	com	Composite sample - see table 3 e	7094	2008	982	256	3846	2991	4102	114-0B
4578.00	com	Composite sample - see table 3 e	5155	1529	623	84	2917	2152	3002	115-0B

Table 3 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4450.00	com	Composite sample - see table 3 e	401.91	91.58	32.22	6.78	271.33	123.80	278.12	112-0B
4493.00	com	Composite sample - see table 3 e	442.97	159.47	66.45	27.69	189.37	225.91	217.05	111-0B
4523.00	com	Composite sample - see table 3 e	307.94	125.84	38.49	8.88	134.72	164.33	143.61	113-0B
4548.00	com	Composite sample - see table 3 e	312.51	88.48	43.30	11.30	169.43	131.78	180.73	114-0B
4578.00	com	Composite sample - see table 3 e	373.61	110.85	45.16	6.16	211.44	156.01	217.60	115-0B

Table 3 d: Composition of material extracted from the rock (%) for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	Aro	Non-HC	
4450.00	com	Composite sample - see table 3 e	22.78	8.02	1.69	67.51	30.80	69.20	284.21	44.51	112-0B
4493.00	com	Composite sample - see table 3 e	36.00	15.00	6.25	42.75	51.00	49.00	240.00	104.08	111-0B
4523.00	com	Composite sample - see table 3 e	40.87	12.50	2.88	43.75	53.37	46.63	326.92	114.43	113-0B
4548.00	com	Composite sample - see table 3 e	28.31	13.86	3.61	54.22	42.17	57.83	204.35	72.92	114-0B
4578.00	com	Composite sample - see table 3 e	29.67	12.09	1.65	56.59	41.76	58.24	245.45	71.70	115-0B

Depth unit of measure: m

NOTE: Depths shown in tables 3 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>
4420.00	4450.00	com	112-0B	is composed of:	4420.00	cut	Sh/Clst: drk gy	079-3L
					4426.00	cut	Sh/Clst: drk gy	080-2L
					4429.00	cut	Sh/Clst: drk gy	081-4L
					4450.00	cut	Sh/Clst: drk gy, ign, sil	084-4L
4462.00	4493.00	com	111-0B	is composed of:	4462.00	cut	Sh/Clst: ol gy, lt gy, calc	086-2L
					4468.00	cut	Sh/Clst: m gy to drk gy, ign, sil	087-3L
					4480.00	cut	Sh/Clst: m gy to drk gy, sil	089-2L
					4493.00	cut	Sh/Clst: m gy to drk gy, sil	091-3L
4511.00	4523.00	com	113-0B	is composed of:	4511.00	cut	Sh/Clst: m gy to drk gy, sil	094-2L
					4523.00	cut	Sh/Clst: m gy to drk gy, sil	096-3L
4538.00	4548.00	com	114-0B	is composed of:	4538.00	cut	Sh/Clst: gy blk, evap, fis	098-1L
					4541.00	cut	Sh/Clst: gy blk, wx, fis	099-3L
					4548.00	cut	Sh/Clst: gy blk, fis	100-3L
4566.00	4578.00	com	115-0B	is composed of:	4566.00	cut	Sh/Clst: m gy to drk gy	103-2L
					4578.00	cut	Sh/Clst: m gy to drk gy	105-2L

Table 4 : Saturated Hydrocarbon Ratios for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
4450.00	com	bulk	0.47	0.92	0.48	0.50	0.99	112-0B
4493.00	com	bulk	0.46	0.99	0.47	0.47	1.20	111-0B
4523.00	com	bulk	0.41	1.01	0.42	0.43	1.19	113-0B
4548.00	com	bulk	0.29	1.12	0.30	0.31	1.07	114-0B
4578.00	com	bulk	0.39	1.15	0.39	0.39	1.04	115-0B

Table 5 : Aromatic Hydrocarbon Ratios for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
4450.00	com	bulk	-	1.62	-	0.98	1.05	0.90	0.63	10.64	1.45	112-0B
4493.00	com	bulk	-	-	-	0.92	0.99	0.86	0.41	7.41	1.32	111-0B
4523.00	com	bulk	1.33	1.98	0.25	1.01	0.98	0.84	0.62	10.86	1.48	113-0B
4548.00	com	bulk	1.97	3.43	0.89	1.25	0.82	0.76	0.50	13.57	2.26	114-0B
4578.00	com	bulk	1.06	2.14	0.31	1.08	0.92	0.82	0.62	11.41	1.93	115-0B

Table 6 : Thermal Maturity Data for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
1591.00	cut	bulk	0.34	20	0.04	3+4	-	-	002-0B
1591.00	cut	Sh/Clst: brn blk, drk brn gy	-	-	-	-	3.5	428	002-2L
1774.00	cut	bulk	0.32	20	0.05	4	-	-	004-0B
1975.00	cut	bulk	0.34	18	0.06	3+4	-	-	006-0B
1975.00	cut	Sh/Clst: brn blk	-	-	-	-	3.5 - 4	430	006-1L
2076.00	cut	bulk	0.36	19	0.03	3+4	-	-	007-0B
2277.00	cut	bulk	0.36	20	0.05	4	-	-	009-0B
2377.00	cut	bulk	0.37	20	0.05	4	-	-	010-0B
2478.00	cut	bulk	0.49	20	0.07	5+6	-	-	011-0B
2478.00	cut	Sh/Clst: brn blk	-	-	-	-	4	428	011-2L
2679.00	cut	bulk	0.46	16	0.05	6	-	-	013-0B
2880.00	cut	bulk	0.44	20	0.06	5+6+7	-	-	015-0B
2981.00	cut	Sh/Clst: ol gy	-	-	-	-	NDP	425	016-1L
3081.00	cut	bulk	0.48	20	0.08	5	-	-	017-0B

Table 6 : Thermal Maturity Data for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
3277.00	cut bulk	0.54	20	0.07	4+5+6+7	-	-	019-0B
3277.00	cut Sh/Clst: ol gy, lt gy	-	-	-	-	4 - 4.5	430	019-1L
3475.00	cut bulk	0.59	2	0.04	0	-	-	021-0B
3676.00	cut bulk	NDP	-	-	0	-	-	023-0B
3676.00	cut Sh/Clst: gy red, brn gy, ol gy, lt gy	-	-	-	-	NDP	-	023-2L
3877.00	cut bulk	NDP	-	-	5	-	-	025-0B
4078.00	cut bulk	0.87	5	0.09	5	-	-	027-0B
4121.00	cut bulk	0.59	12	0.05	4	-	-	032-0B
4182.00	cut bulk	0.62	10	0.03	0	-	-	042-0B
4182.00	cut Sh/Clst: lt gy to drk gy	-	-	-	-	NDP	432	042-2L
4243.00	cut bulk	NDP	-	-	0	-	-	050-0B
4267.00	cut Sh/Clst: drk gy	-	-	-	-	NDP	436	054-3L
4285.00	cut Sh/Clst: ol blk, drk gy	-	-	-	-	5.5 - 6 ?	436	057-3L
4298.00	cut Sh/Clst: brn blk	-	-	-	-	5 - 5.5	436	059-3L

Table 6 : Thermal Maturity Data for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
4319.00	cut bulk	0.79	10	0.06	6	-	-	062-0B
4328.00	cut bulk	NDP	-	-	0	-	-	064-0B
4328.00	cut Sh/Clst: brn blk, drk brn gy	-	-	-	-	NDP	438	064-3L
4389.00	cut bulk	NDP	-	-	0	-	-	074-0B
4389.00	cut Sh/Clst: gy blk to brn blk	-	-	-	-	6 - 6.5	439	074-3L
4429.00	cut Sh/Clst: drk gy	-	-	-	-	NDP	438	081-4L
4444.00	cut bulk	NDP	-	-	0	-	-	083-0B
4456.00	cut bulk	NDP	-	-	0	-	-	085-0B
4468.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	NDP	440	087-3L
4480.00	cut bulk	NDP	-	-	0	-	-	089-0B
4511.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	NDP	405	094-2L
4517.00	cut bulk	NDP	-	-	6	-	-	095-0B
4538.00	cut bulk	1.23	20	0.14	0	-	-	098-0B
4584.00	cut bulk	NDP	-	-	0	-	-	106-0B

Table 6 : Thermal Maturity Data for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
4596.00	cut	bulk	1.02	1	0.00	-	-	-	108-0B

Table 7 : Visual Kerogen Composition Data for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m o r e L t	L i p o e o c l l	S u p e r i o c l l	C o n t e n t	D i s s o l v e d l i q u i d	A r o m a t i c h y d r o c a r b o n	I n s o l u b i l i t y	F u e l i n g c o n t e n t	S i m i l a r c o n t e n t	M e t h a n o l i t h i c c o n t e n t	S t r o n g l y c o n t e n t	V o l a t i l i t y	C o n t e n t	V o l a t i l i t y	A r o m a t i c h y d r o c a r b o n	Sample
1591.00	cut	Sh/Clst: brn blk, drk brn gy	10	*	**		*		5	*					85	*	*	**	002-2L
1975.00	cut	Sh/Clst: brn blk	10	*	*		*		10	*	*				80	*	*	**	006-1L
2478.00	cut	Sh/Clst: brn blk	20	*	**		*		5	*					75	*	**		011-2L
2981.00	cut	Sh/Clst: ol gy	NDP						NDP						NDP				016-1L
3277.00	cut	Sh/Clst: ol gy, lt gy	30	*	*	**			10	*					60	*	**		019-1L
3676.00	cut	Sh/Clst: gy red, brn gy, ol gy, lt gy	NDP						NDP						NDP				023-2L
4182.00	cut	Sh/Clst: lt gy to drk gy	NDP						NDP						NDP				042-2L
4267.00	cut	Sh/Clst: drk gy	5	*					5	*					90	*	**		054-3L
4285.00	cut	Sh/Clst: ol blk, drk gy	5	*	*				20	*	*				75	*	*		057-3L
4298.00	cut	Sh/Clst: brn blk	10	*	*				10	*	*				80	*	*		059-3L
4328.00	cut	Sh/Clst: brn blk, drk brn gy	5	*					10	*					85	*	**		064-3L
4389.00	cut	Sh/Clst: gy blk to brn blk	25	**	*				15	*	*				60	*	**		074-3L
4429.00	cut	Sh/Clst: drk gy	15	*					10	*					75	*			081-4L

Table 7 : Visual Kerogen Composition Data for well NOCS 2/10-1

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m o r e L t	L i p D e l	S p / P o l	C u t e l l	R e s i n e	A l g a l	D i o f l	A c r i t L	I N E R T %	F u s i n	S e m F u e t	I n D r e i n	M i c r o I	S c l e t I	V I T R %	T e l l i n	C o l l i n	V i d e t	A m o r t V	B i o d r o V	Sample	
4468.00	cut	Sh/Clst: m gy to drk gy	5	*								20	*	*				75		*					087-3L
4511.00	cut	Sh/Clst: m gy to drk gy	TR?	*								10		*				90		*	*				094-2L

Table 8 : Pyrolysis GC data (S2 peak) as percentage of total area for well 2/10-1

Depth unit of measure : m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
4121.00	cut	Sh/Clst: lt gy to drk gy, pl gn gy	3.41	23.00	50.19	23.41	0.64	032-3
4267.00	cut	Sh/Clst: drk gy	4.58	17.73	36.51	41.21	11.95	054-3
4273.00	cut	Sh/Clst: gy blk to brn blk	3.32	16.77	34.86	45.05	7.18	055-3
4285.00	cut	Sh/Clst: ol blk, drk gy	2.90	15.97	37.72	43.42	4.13	057-3
4291.00	cut	Sh/Clst: brn blk	2.32	16.22	45.94	35.52	13.62	058-3
4371.00	cut	Sh/Clst: ol gy, lt gy to drk gy	1.93	12.40	36.06	49.61	2.88	071-2
4389.00	cut	Sh/Clst: gy blk to brn blk	3.33	17.75	33.95	44.98	10.29	074-3
4420.00	cut	Sh/Clst: drk gy	4.00	20.29	40.00	35.71	3.82	079-3
4468.00	cut	Sh/Clst: m gy to drk gy	3.52	21.62	43.85	31.02	2.05	087-3

Table 9: Variation in Triterpane Distribution for Well NOCS 2/10-1

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
4450.00	Sh/Clst	0.94	0.49	0.22	0.47	0.32	0.15	0.11	0.23	0.10	0.51	0.90	0.32	0.11	54.84	112-0		
4493.00	Sh/Clst	0.93	0.48	0.19	0.53	0.35	0.09	-	-	-	0.45	0.93	0.36	0.10	54.55	111-0		
4523.00	Sh/Clst	0.92	0.48	0.18	0.44	0.31	0.11	0.07	0.16	0.06	0.42	0.91	0.31	0.10	46.88	113-0		
4548.00	Sh/Clst	0.89	0.47	0.22	0.59	0.37	0.15	0.09	0.15	0.08	0.71	0.91	0.37	0.10	52.17	114-0		
4578.00	Sh/Clst	1.41	0.59	0.42	1.96	0.66	0.33	0.29	0.15	0.23	1.50	0.73	0.62	0.21	51.72	115-0		

Table 10: Variation in Sterane Distribution for Well NOCS 2/10-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Sample</u>
4450.00	Sh/Clst	0.69	50.00	73.24	1.27	0.73	0.70	0.62	112-0
4493.00	Sh/Clst	0.63	43.48	67.61	1.25	0.71	0.67	0.58	111-0
4523.00	Sh/Clst	0.72	56.36	72.91	1.37	0.70	0.62	0.55	113-0
4548.00	Sh/Clst	0.64	52.38	72.73	1.16	0.72	0.70	0.55	114-0
4578.00	Sh/Clst	0.60	52.38	72.00	0.91	0.71	0.53	0.46	115-0

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

Table 11: Aromatisation of Steranes for Well NOCS 2/10-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
4450.00	Sh/Clst	0.42	0.79	112-0
4493.00	Sh/Clst	0.28	1.00	111-0
4523.00	Sh/Clst	0.38	0.85	113-0
4548.00	Sh/Clst	0.58	0.68	114-0
4578.00	Sh/Clst	0.43	0.82	115-0

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

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

Table 12: Variation in Triaromatic Sterane Distribution for Well NOCS 2/10-1

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>
4450.00	Sh/Clst	0.88	0.82	0.69	0.70	0.82	112-0
4493.00	Sh/Clst	0.90	0.85	0.70	0.71	0.82	111-0
4523.00	Sh/Clst	0.88	0.83	0.68	0.69	0.79	113-0
4548.00	Sh/Clst	0.87	0.83	0.64	0.65	0.75	114-0
4578.00	Sh/Clst	0.79	0.74	0.53	0.52	0.66	115-0

Ratio1: $a1 / a1 + g1$

Ratio2: $b1 / b1 + g1$

Ratio3: $a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1$

Ratio4: $a1 / a1 + e1 + f1 + g1$

Ratio5: $a1 / a1 + d1$

Table 13: Variation in Monoaromatic Sterane Distribution for Well NOCS 2/10-1

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>
4450.00	Sh/Clst	0.90	0.77	0.82	0.68	112-0
4493.00	Sh/Clst	0.94	0.87	0.90	0.82	111-0
4523.00	Sh/Clst	0.92	0.81	0.83	0.71	113-0
4548.00	Sh/Clst	0.84	0.69	0.72	0.47	114-0
4578.00	Sh/Clst	0.79	0.60	0.65	0.50	115-0

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