

Fina Exploration Norway Inc.



May 1994

BA-94-1335-1

30 JUNI 1994

REGISTRERT

OLJEDIREKTORATET

GEOCHEMICAL CHARACTERISATION

OF CRUDE OIL FROM

WELL 2/2-1 (DST No. 1)

Fina Exploration Norway Inc.



The geochemical characterisation of the crude oil sample was performed by :

- 1) Geomark Research Inc., Houston, USA and
- 2) The Geochem Group Ltd., Chester, England.

The sample identification was :

Well	DST No.	Sample Identification		
		Fina	Geochem	Geomark
2/2-1	1	HA 552	8237-006	GNS 011

**GEOCHEMICAL CHARACTERIZATION OF
CRUDE OILS FROM THE NORTH SEA
FINAL REPORT**

**PREPARED FOR
FINA EXPLORATION & PRODUCTION COMPANY
BRUSSELS, BELGIUM**

**PREPARED BY
GEOMARK RESEARCH, INC
HOUSTON, TEXAS**

12 July 1993

APPENDIX A

Geochemical Summary Sheets

Geomark 1993



GEOCHEMICAL SUMMARY SHEET

Country: Norway
Basin: North Sea
Field:
Well:

Depth:
Age:
Formation:

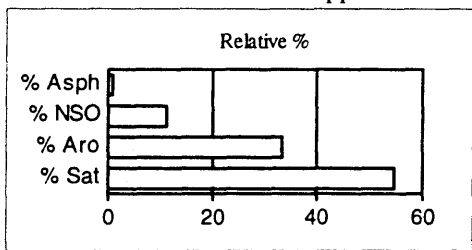
12-Jul-93
Sample ID: HA552
LAT:
LONG:

BULK PROPERTIES:

API Gravity: % S: ppm V:
%< C15: 41.6 ppm Ni:

C15 + Composition

% Sat: 54.7
% Aro: 33.3
% NSO: 11.1
% Asph: 0.9
Sat/Aro= 1.64
n-Paraffin/Naphthene= 0.79



Stable Carbon Isotope Composition

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
Whole Crude:

Deuterium Composition
(S.M.O.W.) Whole Crude:

GAS CHROMATOGRAPHY:

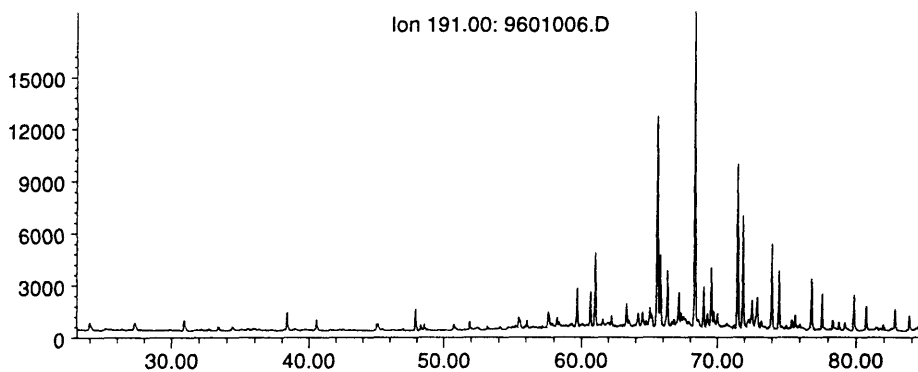
n-Paraffin
Distribution

Pr/Ph: Pr/n-C17:
CPI: Ph/n-C18:
n-C27/n-C17:

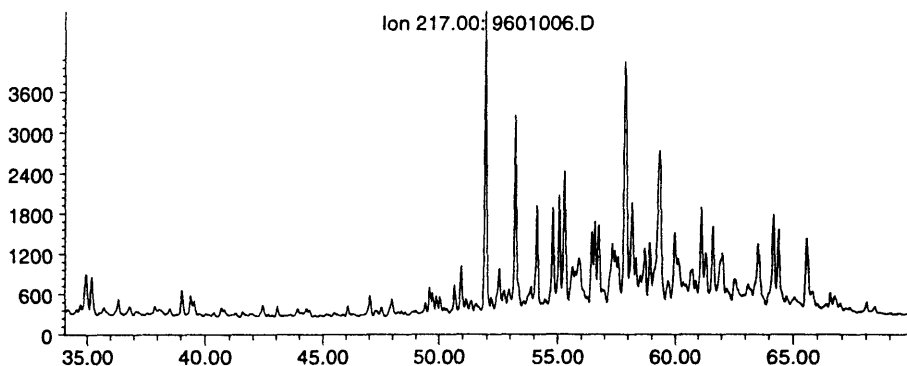
BIOMARKERS:

ppm C30 Hopane: 481

Terpanes



Steranes



Key Ratios

C19/C23= 0.43
C22/C24= 0.30
C26/C25= 1.01
Tet/C23= 1.23
Ts/Tm= 0.52
C29D/H= 0.34
C27T/C27= 0.01
DM/H= 0.01
C28/H= 0.04
C30X/H= 0.18
C29/H= 0.89
OL/H= 0.01
GA/H= 0.03
C31S/H= 0.52
C35/C34= 0.60
Rear/Reg= 5.56
Ster/Hop= 0.40
C29 20S/R= 0.88
%C27= 30.9
%C28= 30.0
%C29= 39.1
(m/z = 218)

COMMENTS:

Sterane and Terpane Peak Identifications

Peak	Formula	MW	Sterane ID*
S1	C27H48	372	13 β , 17 α diacholestane (20S)
S2	C27H48	372	13 β , 17 α diacholestane (20R)
S3	C27H48	372	5 α cholestane (20S) + 5 β cholestane (20R)
S4	C27H48	372	5 α , 14 β , 17 β cholestane (20R) + 13 β , 17 α diastigmastane (20S)
S5 + S5B**	C27H48	372	5 α , 14 β , 17 β cholestane (20S)
S6	C27H48	372	5 α cholestane (20R)
S7	C29H52	400	diastigmastane
S8	C28H50	386	5 α ergostane (20S)
S9	C28H50	386	5 α , 14 β , 17 β ergostane (20R) + 5 β ergostane (20R)
S10 + S10B	C28H50	386	5 α , 14 β , 17 β ergostane (20S)
S11	C28H50	386	5 α ergostane (20R)
S12	C29H52	400	5 α stigmastane (20S)
S13	C29H52	400	5 α , 14 β , 17 β stigmastane (20R)
S14 + S14B	C29H52	400	5 α , 14 β , 17 β stigmastane (20S) + 5 β stigmastane (20R)
S15	C29H52	400	5 α stigmastane (20R)

*assumes 8 β ,9 α ,14 α ,17 α unless otherwise stated. dia=rearranged

**based on the 217 and 218 m/z mass chromatograms, respectively

Peak	Formula	MW	Terpane ID
C19	C19H34	262	tricyclic diterpane
C20	C20H36	276	tricyclic diterpane
C21	C21H38	290	tricyclic diterpane
C22	C22H40	304	tricyclic terpane
C23	C23H42	318	tricyclic terpane
C24	C24H44	332	tricyclic terpane
C25	C25H46	346	tricyclic terpane
TET	C24H42	330	teteracyclic terpane
C26	C26H48	360	tricyclic terpane
C28	C28H52	388	extended tricyclic terpane
C29	C29H54	402	extended tricyclic terpane
C30	C30H56	416	extended tricyclic terpane
Ts	C27H46	370	18 α , 21 β -22,29,30-trisnorhopane
C27T	C27H46	370	17 α ,18 α ,21 β -25,28,30-trisnorhopane
Tm	C27H46	370	17 α , 21 β -22,29,30-trisnorhopane
C28H	C28H48	384	17 α , 18 α , 21 β -28,30-bisnorhopane
C29H	C29H50	398	17 α , 21 β -30-norhopane
C29D	C29H50	398	18 α , 17 α methyl-28,30-dinorhopane
C30X	C30H52	412	17 α , 15 α -methyl-27-norhopane (diahopane)
C29M	C29H50	398	17 β , 21 α -30-normortane
OL	C30H52	412	oleanane
C30H	C30H52	412	17 α , 21 β hopane
C30M	C30H52	412	17 β , 21 α moretane
C31H	C31H54	426	17 α , 21 β -30-homohopane (22S + 22R)
GA	C30H52	412	gammacerane
C32H	C32H56	440	17 α , 21 β -bishomohopane (22S + 22R)
C33H	C33H58	454	17 α , 21 β -trishomohopane (22S + 22R)
C34H	C34H60	468	17 α , 21 β extended hopane (22S + 22R)
C35H	C35H62	482	17 α , 21 β extended hopane (22S + 22R)

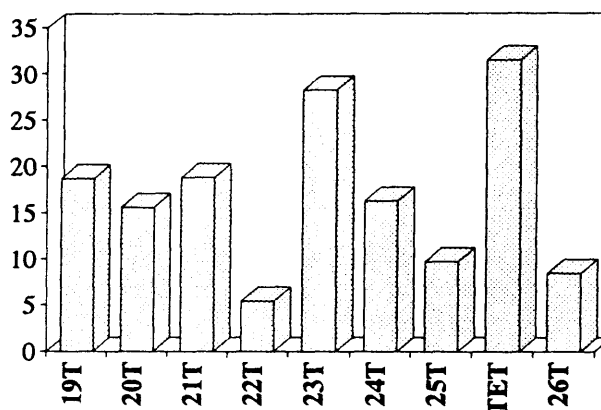
APPENDIX B
SATURATE BIOMARKER MASS FRAGMENTOGRAMS

Geomark 1993

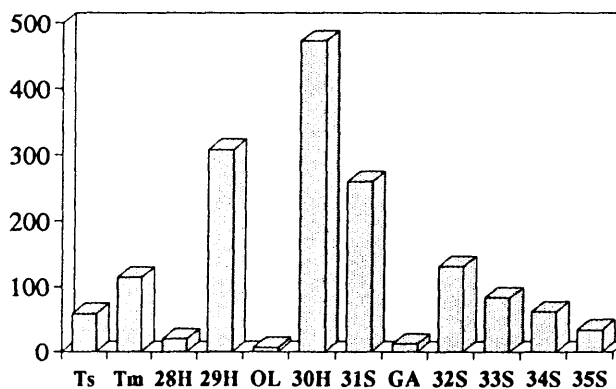
Biomarker Quantitation Report

Data File: 5601005.D
 Date File Acquired: 23 Jul 93 3:18 am
 Acquisition Method: GMJULY22.M
 Sample Name: HA552
 Miscellaneous Info: 3.38 mg branched/cyclic hydrocarbon fraction

Peak#	m/z	Cpd.	RTmin.	Amount (ppm)
				area height
Tricyclic Terpanes				
1	191	C19T	45.01	19 19
2	191	C20T	48.91	19 16
3	191	C21T	53.04	16 19
4	191	C22T	56.81	7 5
5	191	C23T	61.11	26 28
6	191	C24T	63.38	14 16
7	191	C25R	67.96	9 10
8	191	C25S	68.07	7 9
9	191	TET	70.87	29 32
10	191	C26S	71.30	6 8
11	191	C26R	71.55	6 9
TRICYCLICS				158 171



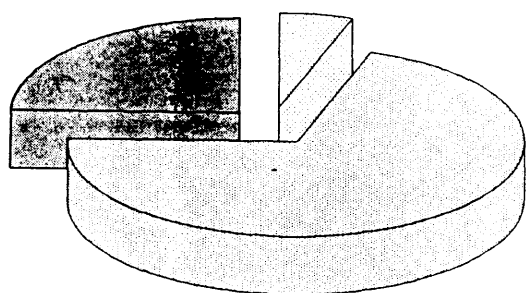
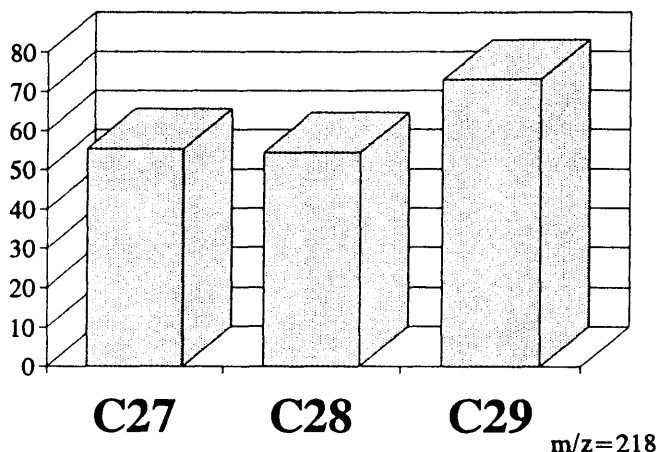
Peak#	m/z	Cpd.	RTmin.	Amount (ppm)
				area height
Pentacyclic Terpanes				
21	191	Ts	82.80	56 59
22	177	C27T	83.23	2 5
24	191	Tm	84.15	114 114
29	177	C28DM	84.94	10 7
34	191	C28H	87.32	21 20
37	177	C29DM	87.75	2 3
40	191	C29H	88.74	343 309
41	191	C29D	88.93	104 114
42	191	C30X	89.46	95 91
43	191	OL	91.00	6 7
44	191	C30H	91.48	483 473
45	191	C30M	92.69	87 92
46	191	C31S	94.64	260 260
47	191	C31R	95.03	182 179
48	191	GA	95.47	19 12
49	191	C32S	97.11	135 131
50	191	C32R	97.67	95 95
51	191	C33S	99.99	87 84
52	191	C33R	100.71	53 59
53	191	C34S	102.95	61 62
54	191	C34R	103.84	35 38
55	191	C35S	105.89	33 34
56	191	C35R	106.94	22 23
PENTACYCLICS				2304 2271



Biomarker Quantitation Report (cont.)

HA552

Peak#	m/z	Cpd.	RTmin.	Amount (ppm)	
		<i>Steranes</i>		area	height
12	217	S1	75.00	154	155
13	217	S2	76.26	109	104
14	217	S3	80.55	21	7
15	217	S4	80.97	161	122
16	218	S4B	80.94	100	86
17	217	S5	81.27	57	40
18	218	S5B	81.27	62	55
19	217	S6	82.01	22	28
20	217	S7	82.43	158	87
23	217	S8	83.99	6	7
25	217	S9	84.42	24	24
26	218	S9B	84.44	43	43
27	217	S10	84.71	40	37
28	218	S10B	84.71	54	54
30	217	S11	85.68	22	12
31	217	S12	86.66	63	35
32	217	S13	87.28	69	50
33	218	S13B	87.28	73	72
35	217	S14	87.51	44	42
36	218	S14B	87.51	75	73
38	221	ISTD	88.57	30	30
39	217	S15	88.68	50	40
STERANES				999	790



□ TRICYCLICS □ PENTACYCLICS □ STERANES

Key Ratios

	area	ht.		area	ht.
C19/C23	0.73	0.66	Ts/Tm	0.49	0.51
C21/C23	0.63	0.67	29D/29	0.30	0.37
C22/C23	0.29	0.19	C27T/27	0.01	0.03
C24/C23	0.54	0.58	DM/H	0.00	0.01
C26/C25	0.74	0.87	C27/H	0.35	0.37
Tet/C23	1.13	1.12	C28/H	0.04	0.04
			X/H	0.20	0.19
S1/S6	7.05	5.50	C29/H	0.92	0.89
%C27	32	30	M/H	0.18	0.20
%C28	28	30	OL/H	0.01	0.01
%C29	39	40	GA/H	0.04	0.03
20S/20R	1.26	0.87	C31/H	0.54	0.55
S/T	0.43	0.35	C35/C34	0.55	0.55
			C23/H	0.05	0.06

Prepared for

FINA EXPLORATION NORWAY INC

ANALYTICAL DATA FOR CRUDE OILS,
NORWEGIAN CONTINENTAL SHELF

JULY 1993

Geochem Group Limited

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GENERAL COMMENT

Only limited amounts of sample material were available for this study. In consequence some analyses had to be omitted. Distillations were difficult with only 3g of crude oil.

It was not possible to perform the following analyses

- a) ‰S : HA 552
- b) ‰ N_2 : HA 552
- c) Ni, V: HA 552
- d) Distillation:
- e) Carbon isotopes:

TABLE 1
CRUDE OIL COMPOSITION - PHYSICAL

JOB 8237						
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	SPECIFIC GRAVITY (g/cc)	API GRAVITY	VISCOSITY (cp)	POUR POINT (°C)	DISTILL TO 210 (%)

8237-006 HA 552

49.00

TABLE 2
CRUDE OIL COMPOSITION - CHEMICAL

JOB 8237							
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	WAX CONTENT (%)	WAX MELTING POINT (°C)	SULPHUR (%)	NITROGEN (%)	V (ppm)	Ni (ppm)

8237-006 HA 552

6

32

TABLE 3
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB 8237 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Preciptd. Asphalteres	Eluted NSO's	Non-Eluted NSO's
8237-006		HA 552	65.30	24.00	1.71	8.61	0.37

TABLE 4
SIGNIFICANT C₁₅₊ RATIOS

JOB 8237	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS & TOTAL EXTRACT	SATURATES AROMATIC
				TOTAL EXTRACT	SATURATES	AROMATIC	TOTAL HYDROCARBONS	ELUTED NSO'S	ASPHALTENES		

8237-006

HA 552

89.30

2.72

TABLE 5
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	006
DEPTH	HA 552
SAMPLE TYPE	
nC15	6.79
nC16	7.29
nC17	7.25
nC18	6.81
nC19	7.23
nC20	7.14
nC21	6.71
nC22	6.73
nC23	6.26
nC24	6.16
nC25	5.93
nC26	5.13
nC27	4.90
nC28	3.97
nC29	3.85
nC30	2.66
nC31	2.31
nC32	1.28
nC33	1.09
nC34	0.39
nC35	0.13
Paraffin	32.88
Isoprenoid	2.64
Naphthene	64.48
CPI 1 Index	1.01
CPI 2 Index	1.13
CPI 3 Index	1.08
Prist/Phytane	1.92
Prist/nC17	0.55
Phytane/nC18	0.30

Job Number : 8237

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 6
COMPOSITION (PPM) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	006
DEPTH	HA 552
SAMPLE TYPE	
nC15	22326
nC16	23970
nC17	23838
nC18	22391
nC19	23772
nC20	23476
nC21	22062
nC22	22128
nC23	20583
nC24	20254
nC25	19498
nC26	16867
nC27	16111
nC28	13053
nC29	12659
nC30	8746
nC31	7595
nC32	4209
nC33	3584
nC34	1282
nC35	427
Paraffin	328800
Isoprenoid	26400
Naphthene	644800
CPI 1 Index	1.01
CPI 2 Index	1.13
CPI 3 Index	1.08
Prist/Phytane	1.92
Prist/nC17	0.55
Phytane/nC18	0.30

Job Number : 8237

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 7
 CARBON ISOTOPE COMPOSITIONS (‰, PDB)

JOB 8237	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	DISTILLATE
GEOCHEM SAMPLE NUMBER								

8237-006	HA 552	-27.79	-27.98	-26.63	-26.38	-26.64		-27.91
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TABLE 8

HYDROGEN AND SULPHUR ISOTOPE COMPOSITIONS

GEOCHEM SAMPLE NUMBER	FINA IDENTIFICATION	δD (‰, SMOW)	δS (‰, CDT)
8237-006	HA 552	-142.2	ndp

() - small sample, treat data with caution

ndp - no determination possible, sample prepared and analysed, insufficient SO₂ to measure

TABLE 9
DETAILED GASOLINE RANGE (C₄-C₇) COMPOSITION

GEOCHEM SAMPLE NUMBER	8237-006
DEPTH	HA 552
NORMALISED COMPOSITION	
isobutane	0.03
n-butane	0.54
isopentane	2.45
n-pentane	5.72
2,2-dimethylB	0.05
cyclopentane	1.40
2,3-dimethylB	0.45
2-methylP	4.51
3-methylP	2.72
n-hexane	10.25
methylCP	7.39
2,2-dimethylP	0.54
2,4-dimethylP	0.03
2,2,3-trimethylB	0.00
benzene	2.91
cyclohexane	9.18
3,3-dimethylP	0.00
1,1-dimethylCP	0.00
2-MH	4.74
2,3-dimethylP	0.30
3-MH	3.43
1,c,3-DMCP	1.58
1,t,3-DMCP	1.49
1,t,2-DMCP	2.63
3-ethylP	0.00
n-heptane(nC7)	11.75
methylCH	18.60
1,c,2-DMCP	0.00
toluene	7.32
ABUNDANCE	236814
nC7/C7NAPHTHENES	0.48
total MH/DMCP	1.43
1,t,2-/1,c,2-DMCP	0.00
nC6/methylCP	1.39
C6-C7 FRACTION	
%n-PARAFFINS	24.48
%iso-PARAFFINS	18.67
% NAPHTHENES	45.48
% AROMATICS	11.39

DMCP dimethylcyclopentane MH methylhexane B butane CH cyclohexane CP cyclopentane H hexane P pentar

TABLE 10
 DETAILED GASOLINE RANGE (C₄-C₇) COMPOSITION

GEOCHEM SAMPLE NUMBER	8237-006
DEPTH	HA 552
PPM COMPOSITION	
isobutane	71
n-butane	1279
isopentane	5802
n-pentane	13546
2,2-dimethylB	118
cyclopentane	3315
2,3-dimethylB	1066
2-methylP	10680
3-methylP	6441
n-hexane	24273
methylCP	17501
2,2-dimethylP	1279
2,4-dimethylP	71
2,2,3-trimethylB	0
benzene	6891
cyclohexane	21740
3,3-dimethylP	0
1,1-dimethylCP	0
2-MH	11225
2,3-dimethylP	710
3-MH	8123
1,c,3-DMCP	3742
1,t,3-DMCP	3529
1,t,2-DMCP	6228
3-ethylP	0
n-heptane(nC7)	27826
methylCH	44047
1,c,2-DMCP	0
toluene	17335
ABUNDANCE	236814
nC7/C7NAPHTHENES	0.48
total MH/DMCP	1.43
1,t,2-/1,c,2-DMCP	0.00
nC6/methylCP	1.39
C6-C7 FRACTION	
%n-PARAFFINS	24.48
%iso-PARAFFINS	18.67
% NAPHTHENES	45.48
% AROMATICS	11.39

DMCP dimethylcyclopentane MH methylhexane B butane CH cyclohexane CP cyclopentane H hexane P pentane

TABLE 11
METHYLPHENANTHRENE INDICES (MPI)

DB 8237 GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	SAMPLE TYPE	MPI 1		Rcalc		MPI 2	
			AREA	HEIGHT	AREA	HEIGHT	AREA	HEIGHT

8237-006	HA 552		0.77	0.91			0.79	1.00
----------	--------	--	------	------	--	--	------	------

$$MPI\ 1 = \frac{1.5(2-MP + 3-MP)}{P + 1-MP + 9-MP}$$

$$MPI\ 2 = \frac{3(2-MP)}{P + 1-MP + 9-MP}$$

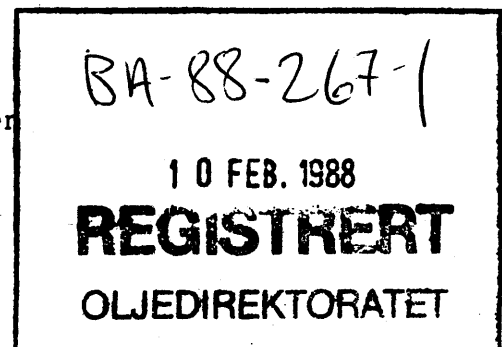
$$Rcalc = \begin{cases} 0.60(MPI\ 1) + 0.40 & (\text{if } Ro < 1.35\%) \\ -0.60(MPI\ 1) + 2.30 & (\text{if } Ro > 1.35\%) \end{cases}$$

CT - ditch cuttings CO - core SWC - sidewall core

PRE-CRETACEOUS HYDROCARBON POTENTIAL
OF THE NORWEGIAN CENTRAL GRABEN

GEOCHEMICAL ANALYSIS
Well NOCS 2/2-1

Authors: Malvin Bjorøy
Peter B. Hall
Kjell Arne Bakken
Rita Løberg
Josan McDermott
Nigel Mills



Geolab Nor A/S
Hornebergveien 5
7038 Trondheim
Norway

Date : November 1987

INTRODUCTION

This well from the Norwegian sector is situated in the Eastern part of the Central Graben. The total drilled depth is 3992 m. Samples were collected between 1010 m and 4102 m from the Norwegian Petroleum Directorate in Stavanger.

A total of 338 samples were collected and evaluated. The analysed section of the well is from 1470 m. From 3296 m, a 6 m sampling interval was used. Samples from 1010 m were used in the maturity study. A careful selection of suitable samples was made for screening analysis. One hundred and forty-four samples were selected for this analysis, and from the data obtained, the samples were chosen for follow-up analysis. These were:

Thermal extraction - pyrolysis - gas chromatography	64 samples
Extraction, MPLC fractionation, saturated and aromatic hydrocarbon gas chromatography	17 samples
Vitrinite reflectance microscopy	27 samples
Visual kerogen analysis	26 samples

Tables listing in detail which samples were analysed and the results and logs are given in the appendix. No log data were available for this well. However, the following formations tops were supplied (after the analytical phase was completed) by Saga Petroleum A/S.

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int	Cvd	TOC%	%	Lithology description
1010.00				011
			100	Sh/Clst: brn gy to ol gy, calc, carb, mic tr Ca : w, fos, chk
				011-1L 011-2L
1170.00				167
			90	Sh/Clst: brn gy to ol gy, carb, mic 5 Ca : w, fos, chk 5 S/Sst : w tr Ca : brn, dol tr Sh/Clst: y gy to ol gy, calc
				167-1L 167-2L 167-3L 167-4L 167-5L
1350.00				168
			95	Sh/Clst: brn gy to ol gy, carb, slt, mic 5 Ca : lt brn to m y brn, cly, dol tr Sh/Clst: lt ol gy to m lt gy, calc tr Ca : w, fos, chk
				168-1L 168-2L 168-3L 168-4L
1470.00				156
	1.21		100	Sh/Clst: brn gy to ol gy, carb, mic tr Other : fos tr Cont : prp
				156-1L 156-2L 156-3L
1580.00				169
			90	Sh/Clst: brn gy to ol gy, carb, mic 10 Ca : y gy to lt ol gy, cly tr Other : fos
				169-1L 169-2L 169-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
1730.00				157
	2.85	80 Sh/Clst: brn gy to brn blk 20 Sh/Clst: lt gy to m lt gy, y gy, calc tr Ca : gy brn, dol		157-1L 157-2L 157-3L
1790.00				170
		90 Sh/Clst: brn gy to brn blk, ol gy, carb, slt, mic 10 Ca : gy pi to pl y brn, fos, chk tr Sh/Clst: lt bl gy, calc, tuf		170-1L 170-2L 170-4L
1880.00				158
	4.72	95 Sh/Clst: brn gy to brn blk, calc, carb, mic 5 Ca : pl y brn, cly tr Other : fos		158-1L 158-2L 158-3L
1950.00				171
		100 Sh/Clst: brn gy to brn blk, carb, mic tr Ca : w to y gy, fos		171-1L 171-2L
2070.00				159
	2.88	100 Sh/Clst: brn gy, brn blk, ol gy, calc, carb, mic tr Ca : pl y brn, cly		159-1L 159-2L
2110.00				172
		100 Sh/Clst: brn gy to brn blk, ol gy, calc, carb, mic tr Ca : w to y gy, pl y brn tr Other : fos tr Cont : Mica-ad, prp		172-1L 172-2L 172-3L 172-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2240.00				160
	1.24	100	Sh/Clst: brn gy to brn blk, ol gy to lt ol gy, calc, carb, mic	160-1L
			tr S/Sst : y gy to lt ol gy, calc, mic, glauc	160-2L
			tr Ca : pl y brn, dol	160-3L
2280.00				173
		100	Sh/Clst: brn gy to brn blk, ol gy to lt ol gy, calc, carb, mic	173-1L
			tr S/Sst : y gy to lt ol gy, calc, mic, glauc	173-2L
			tr Ca : gy pi, y gy, pl y brn	173-3L
2390.00				161
	1.60	95	Sh/Clst: brn gy, ol gy to lt ol gy, carb, mic	161-1L
		5	S/Sst : y gy, calc, mic, glauc	161-2L
			tr Ca : pl y brn to dsk brn, dol	161-3L
			tr Coal : blk	161-4L
			tr Other : fos	161-5L
2440.00				174
		95	Sh/Clst: brn gy to ol gy, calc, carb, slt, mic	174-1L
		5	Ca : pl y brn, cly, dol	174-2L
			tr Ca : w, chk	174-3L
			tr Coal : blk	174-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2520.00				162
	1.36	95 Sh/Clst: brn gy to ol gy 5 Ca : drk y brn to pl y brn, dol tr Other : fos		162-1L 162-2L 162-3L
2570.00				175
		60 Sh/Clst: brn gy to ol gy, carb, mic, st 40 Sh/Clst: gy red, gn gy to lt ol gy, dsk red, st tr Other : fos		175-1L 175-2L 175-3L
2670.00				176
		70 Sh/Clst: brn gy to ol gy, st 25 Sh/Clst: gn gy to m brn, dsk red, st 5 S/Sst : w, l tr Coal : fos tr Ca : w to pl y brn		176-1L 176-2L 176-4L 176-3L 176-5L
2715.00				163
	1.96	75 Sh/Clst: brn gy, ol gy, drk gy, carb, slt, mic, st 15 Sh/Clst: gn gy to m brn, dsk red, st 10 Coal : blk tr Sltst : brn gy to m gy tr Sh/Clst: y gy		163-1L 163-2L 163-3L 163-4L 163-5L
2770.00				177
		90 Sh/Clst: brn gy to ol gy, m gy to drk gy, slt, mic, st 5 Sh/Clst: gn gy to dsk red, st 5 Ca : pl y brn tr S/Sst : w, l		177-1L 177-2L 177-3L 177-4L

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

Depth unit of measure: m

Depth	Type		Lithology description	Trb	Sample
Int Cvd	TOC%	%			
2870.00					178
		50	Ca : w, st, chk		178-1L
		25	Sh/Clst: brn gy to lt ol gy, carb, slt, mic, st		178-3L
		20	Sh/Clst: m gy to m drk gy, carb, st		178-2L
		5	Chert : w		178-4L
		tr	Sltst : m gy to m drk gy, calc, pyr, s, mic, glauc		178-5L
2920.00					164
		40	Ca : w, st, chk		164-1L
1.06		30	Sh/Clst: brn gy to ol gy, lt ol gy, carb, slt, mic, st		164-3L
0.87		25	Sh/Clst: m lt gy to m drk gy, carb, slt, mic, st		164-2L
		5	Sh/Clst: gn gy		164-5L
		tr	Chert : w		164-4L
2970.00					179
		55	Ca : w, st, chk		179-1L
		20	Sh/Clst: m gy to m drk gy, carb, slt, mic, st		179-2L
		20	Sh/Clst: brn gy to ol gy, calc, carb, slt, mic, st		179-3L
		5	Chert : w		179-4L
3085.00					165
	0.13	95	Ca : w to pl y brn, st, chk		165-1L
		5	Sh/Clst: gy blk, brn gy, ol gy to ol blk, m gy, calc, carb, slt, mic, st		165-2L
		tr	Sh/Clst: dsk red		165-3L
		tr	Cont : Coal-ad		165-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3140.00				180
		60 Ca : w to pl y brn, st, chk		180-1L
		35 Sh/Clst: gy blk, brn gy, ol gy, m gy, calc, carb, slt, mic, st		180-2L
		5 Sh/Clst: dsk red		180-4L
		tr Cont : Coal-ad		180-3L
3185.00				166
	1.15	70 Sh/Clst: brn gy to brn blk, ol gy, m gy, carb, mic		166-2L
		30 Ca : w to pl y brn, st, chk		166-1L
3190.00				025
		65 Ca : w to pl y brn, st, chk		025-1L
		35 Sh/Clst: brn gy to ol gy, m gy to m drk gy, carb, mic, st		025-2L
		tr Sh/Clst: gn gy		025-3L
3195.00				026
		70 Ca : w to pl y brn, st, chk		026-1L
		25 Sh/Clst: brn gy to ol gy, m gy to m drk gy, carb, mic, st		026-2L
		5 Cont : Coal-ad		026-3L
3200.00				027
	0.91	70 Ca : w to pl y brn, st, chk		027-1L
		25 Sh/Clst: brn gy to ol gy, m gy to m drk gy, calc, mic		027-2L
		5 Sh/Clst: gn gy to drk gn gy		027-3L
		tr Sltst : ol gy, mic		027-4L

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

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%	Lithology description	

3205.00			028
	95 Ca	: w, or gy, pl brn, glauc, st, chk	028-1L
	5 Sh/Clst:	brn gy to ol gy, m gy to m drk gy, mic, st	028-2L
	tr Sh/Clst:	m brn, calc	028-3L
3210.00			029
	65 Ca	: w, or gy, pl brn, glauc, st, chk	029-1L
	20 Sh/Clst:	brn gy to ol gy, m lt gy to m drk gy, calc, mic, st	029-2L
	15 Cont	: Coal-ad, tar-ad	029-3L
	tr Sh/Clst:	gn gy	029-4L
3215.00			030
	80 Ca	: w, or gy, pl brn, glauc, st, chk	030-1L
	15 Sh/Clst:	brn gy to ol gy, m lt gy to m drk gy, calc, mic, st	030-2L
	5 Sh/Clst:	gn gy	030-3L
	tr Cont	: Coal-ad	030-4L
3220.00			031
	70 Ca	: w, or gy, pl brn, glauc, st, chk	031-1L
0.80	30 Sh/Clst:	brn gy to brn blk, ol gy to ol blk, gy blk to m drk gy, calc, mic, st	031-2L
	tr Sh/Clst:	gn gy to dsk red, st	031-3L
	tr Cont	: Coal-ad	031-4L
3225.00			032
	50 Ca	: w, or gy, pl brn, glauc, st, chk	032-1L
	30 Sh/Clst:	brn gy, ol gy, m gy to m drk gy, slt, mic, st	032-2L
	20 Sh/Clst:	gy brn, gy red, m brn, calc, st	032-3L
	tr Cont	: Coal-ad	032-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3230.00				033
	1.36	40 Ca : w, or gy, pl brn, glauc, st, chk		033-1L
		35 Sh/Clst: brn gy, ol gy, m gy to m drk gy, slt, mic, st		033-2L
		25 Sh/Clst: gy brn, gy red, m brn, calc, st		033-3L
		tr S/Sst : lt ol gy, calc, mic, glauc, cem		033-4L
3236.00				034
		35 Cont : Coal-ad, tar-ad		034-3L
		25 Sh/Clst: gy brn to m brn, mic, st, wx		034-2L
		20 Sh/Clst: brn gy to ol gy, lt ol gy, m drk gy, slt, mic, st		034-1L
		20 Ca : w, or gy, pl brn, glauc, st, chk		034-5L
		tr Sh/Clst: gn gy		034-4L
3242.00				035
		30 Cont : Coal-ad, tar-ad		035-3L
		25 Sh/Clst: brn gy to ol gy, lt ol gy, m drk gy, slt, mic, st		035-1L
		25 Sh/Clst: gy brn to m brn, mic, st, wx		035-2L
		20 Ca : w, or gy, pl brn, glauc, st, chk		035-4L
3248.00				036
	0.42	65 Sh/Clst: ol gy, calc, slt, mic, st		036-1L
		15 Ca : w, or gy, pl brn, glauc, st, chk		036-4L
		10 Sh/Clst: gy brn to m brn, mic, st, wx		036-2L
		10 Cont : Coal-ad, tar-ad		036-3L
3254.00				037
		70 Sh/Clst: ol gy, calc, slt, mic, st		037-1L
		15 Ca : w, or gy, pl brn, glauc, st, chk		037-4L
		10 Cont : Coal-ad, tar-ad		037-3L
		5 Sh/Clst: gy brn to m brn, mic, st, wx		037-2L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3260.00				038
	0.48	70 Sh/Clst: ol gy, calc, slt, mic, st		038-1L
		15 Sh/Clst: gy brn, gy red, m brn to m drk red, calc, st, wx		038-2L
		15 Ca : w, or gy, pl brn, glauc, st, chk		038-4L
		tr Cont : Coal-ad, tar-ad		038-3L
3266.00				039
		95 Sh/Clst: ol gy, m gy to m lt gy, calc, slt, mic, st		039-1L
		5 Ca : w, or gy, pl brn, glauc, st, chk		039-3L
		tr Sh/Clst: gy brn, gy red, m brn to m drk red, calc, st, wx		039-2L
3272.00				040
	0.46	100 Sh/Clst: y gy, ol blk to lt ol gy, calc, slt, mic, st		040-1L
		tr Sh/Clst: dsk red, st		040-2L
		tr Ca : w to pl y brn, st		040-3L
		tr Cont : Coal-ad, tar-ad		040-4L
3278.00				041
		100 Sh/Clst: y gy, ol blk to lt ol gy, calc, slt, mic, st		041-1L
		tr Sh/Clst: dsk red, st		041-2L
		tr Ca : w to pl y brn, st		041-3L
		tr Cont : Coal-ad, tar-ad		041-4L
3284.00				042
		95 Sh/Clst: y gy, ol blk to lt ol gy, calc, slt, mic, st		042-1L
		5 Cont : Coal-ad, tar-ad		042-4L
		tr Sh/Clst: dsk red, st		042-2L
		tr Ca : w to pl y brn, st		042-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3296.00				043
	0.39	95 Sh/Clst: y gy, ol blk to lt ol gy, calc, slt, mic, st		043-1L
		5 Cont : Coal-ad, tar-ad		043-4L
		tr Sh/Clst: dsk red, st		043-2L
		tr Ca : w to pl y brn, st		043-3L
3302.00				044
	0.33	100 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		044-1L
		tr Sh/Clst: dsk red, st		044-2L
		tr Ca : pl y brn, st		044-3L
		tr Cont : Coal-ad, tar-ad		044-4L
		tr Other : pyr		044-5L
3308.00				045
	0.33	100 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		045-1L
		tr Sh/Clst: dsk red, st		045-2L
		tr Ca : drk y brn to pl y brn		045-3L
		tr Cont : Coal-ad, tar-ad		045-4L
3314.00				046
	0.59	100 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		046-1L
		tr Cont : Coal-ad, tar-ad		046-2L
3320.00				047
cvd	0.60	100 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		047-1L
		tr Ca : w to dsk red brn		047-2L
		tr Cont : Coal-ad, tar-ad		047-3L
		tr Other : pyr		047-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3326.00				048
	0.54	100 Sh/Clst: brn blk, ol blk to lt ol gy, calc, slt, mic, st		048-1L
		tr Ca : w to dsk red brn		048-2L
		tr Cont : Coal-ad, tar-ad		048-3L
		tr Other : pyr		048-4L
3332.00				049
	0.59	95 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		049-1L
		5 Ca : w to dsk y brn		049-2L
		tr Other : pyr		049-3L
3338.00				050
	0.32	100 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		050-1L
		tr Ca : w to dsk y brn		050-2L
		tr Other : pyr		050-3L
3344.00				051
	0.54	100 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		051-1L
		tr Ca : w to dsk y brn		051-2L
		tr Other : pyr		051-3L
3350.00				052
	0.70	100 Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st		052-1L
		tr S/Sst : y gy, calc, mic, glauc		052-2L
		tr Other : pyr		052-3L
		tr Cont : Coal-ad, prp, tar-ad		052-4L

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

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		
Lithology description			
3368.00			053
	0.71	100	Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st
			tr Ca : w to gy pi
			tr Cont : Coal-ad, tar-ad
			tr Other : pyr
			053-1L
			053-2L
			053-3L
			053-4L
3374.00			054
	0.55	70	Sh/Clst: ol blk to lt ol gy, calc, slt, mic, st
		30	Cont : Coal-ad, tar-ad
			tr S/Sst : brn gy to y gy, cly, mic, glauc
			tr Ca : w, st
			054-1L
			054-3L
			054-2L
			054-4L
3380.00			055
	0.69	85	Sh/Clst: ol blk to lt ol gy
		15	S/Sst : w, f, l
			tr Ca : w to pl y brn
			tr Cont : Coal-ad, tar-ad
			055-1L
			055-2L
			055-3L
			055-4L
3386.00			056
	0.92	70	Sh/Clst: ol blk to lt ol gy
		20	S/Sst : lt ol gy, calc, glauc, cem, l
		10	Cont : Coal-ad, tar-ad
			tr Ca : w to pl y brn
			056-1L
			056-2L
			056-3L
			056-4L
3392.00			057
	0.84	50	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy, calc, carb, slt, mic, st
		50	S/Sst : lt brn gy to lt ol gy, calc, cly, mic, glauc, st, cem, kln
			tr Other : pyr
			tr Cont : Coal-ad
			057-1L
			057-2L
			057-3L
			057-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3398.00				058
	0.35	60 S/Sst : lt brn gy to lt ol gy, calc, cly, mic, glauc, st, cem, kln		058-2L
		40 Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy, calc, carb, slt, mic, st		058-1L
		tr Cont : Coal-ad		058-3L
3404.00				059
		60 S/Sst : lt brn gy to lt ol gy, calc, cly, mic, glauc, st, cem, kln		059-2L
	1.40	40 Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy, calc, carb, slt, mic, st		059-1L
		tr Cont : Coal-ad		059-3L
3410.00				060
		70 S/Sst : lt brn gy to lt ol gy, calc, cly, mic, glauc, st, cem, kln		060-2L
	0.83	30 Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy, calc, carb, slt, mic, st		060-1L
		tr Cont : prp		060-3L
		tr Ca : w, chk		060-4L
3416.00				061
	0.39	75 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		061-2L
		25 Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy, calc, carb, slt, mic, st		061-1L

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

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%	%	Lithology description
3422.00			062
	0.26	80	S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln
	0.61	20	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st
			tr Ca : pl y brn
			tr Cont : ns
3428.00			063
	0.24	85	S/Sst : lt brn gy to lt ol gy, m drk gy, calc, cly, mic, glauc, st, cem, kln
		15	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st
3434.00			064
		85	S/Sst : lt brn gy to lt ol gy, m drk gy, calc, cly, mic, glauc, st, cem, kln
		15	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st
3440.00			065
	0.29	95	S/Sst : lt brn gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem, kln
		5	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
3446.00				066
	0.30	95	S/Sst : lt brn gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem, kln	066-2L
		5	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st	066-1L
3452.00				067
		60	S/Sst : lt brn gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem, kln	067-2L
	0.70	40	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st	067-1L
3458.00				068
	0.33	75	S/Sst : lt brn gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem, kln	068-2L
		25	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st	068-1L
3464.00				069
		80	S/Sst : lt brn gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem, kln	069-2L
	0.73	20	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st	069-1L
3470.00				070
	0.27	95	S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln	070-2L
		5	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st	070-1L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3482.00				071
		90 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		071-2L
		10 Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st		071-1L
3488.00				072
	0.34	95 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		072-2L
		5 Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st		072-1L
3494.00				073
	0.29	90 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		073-2L
		10 Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st		073-1L
		tr Coal : blk		073-3L
3503.00				074
		60 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		074-2L
	0.54	40 Sh/Clst: ol gy to lt ol gy, calc, slt, mic, st		074-1L
		tr Coal : blk		074-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
3506.00				075
		60 S/Sst	: lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln	075-1L
		35 Sh/Clst:	ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st	075-2L
		5 Coal	: blk	075-3L
3512.00				076
	0.25	80 S/Sst	: lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln	076-1L
		15 Sh/Clst:	ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st	076-2L
		5 Coal	: blk	076-3L
3518.00				077
		65 S/Sst	: lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln	077-1L
	0.42	30 Sh/Clst:	ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st	077-2L
		5 Coal	: blk	077-3L
3530.00				078
	0.35	80 S/Sst	: lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln	078-1L
		15 Sh/Clst:	ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st	078-2L
		5 Coal	: blk	078-3L
		tr Ca	: w, chk	078-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
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Int Cvd	TOC%	% Lithology description		
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3536.00				079
	0.29	90 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		079-1L
		10 Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st		079-2L
		tr Coal : blk		079-3L
		tr Ca : w, chk		079-4L
		tr Sh/Clst: m brn		079-5L
3542.00				080
	0.38	75 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		080-1L
		25 Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st		080-2L
		tr Coal : blk		080-3L
		tr Ca : w, chk		080-4L
3548.00				081
		50 S/Sst : lt brn gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem, kln		081-1L
	1.01	40 Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy, calc, slt, mic, st		081-2L
		10 Cont : Coal-ad, tar-ad		081-4L
		tr Coal : blk		081-3L
3554.00				082
		50 S/Sst : ol gy to lt ol gy, m gy, calc, carb, cly, mic, glauc, st, cem		082-1L
	1.04	45 Sh/Clst: ol blk to lt ol gy, m drk gy, calc, slt, mic, st		082-2L
		5 Cont : Coal-ad, tar-ad		082-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
3560.00				083
	0.36	60	S/Sst : y gy to lt ol gy, calc, carb, cly, mic, glauc, st, cem	083-1L
	0.70	40	Sh/Clst: ol gy, drk gy to m drk gy, calc, slt, mic, st	083-2L
			tr Cont : Coal-ad	083-3L
3566.00				084
		55	S/Sst : ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem	084-1L
	0.48	35	Sh/Clst: ol gy, m gy to m drk gy, calc, slt, mic, st	084-2L
		10	Cont : Coal-ad, tar-ad	084-3L
3572.00				085
	0.47	50	Sh/Clst: ol gy, m gy to m drk gy, calc, slt, mic, st	085-2L
		45	S/Sst : ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem	085-1L
		5	Cont : Coal-ad, tar-ad	085-3L
3578.00				086
		55	S/Sst : ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem	086-1L
	0.49	30	Sh/Clst: ol gy, m gy to m drk gy, calc, slt, mic, st	086-2L
		15	Cont : Coal-ad, tar-ad	086-3L

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

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%	%	Lithology description
3584.00			087
	0.45	40 S/Sst	: ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem 087-1L
	0.96	40 Sh/Clst:	gy blk, brn gy, ol gy to lt ol gy, m drk gy, calc, slt, mic, st 087-2L
		20 Cont	: Coal-ad, tar-ad 087-3L
3587.00			088
	0.42	50 Sh/Clst:	ol gy to lt ol gy, m gy to m drk gy, calc, slt, mic, st 088-2L
		30 S/Sst	: ol gy to lt ol gy, m gy, calc, carb, cly, mic, glauc, st, cem 088-1L
		20 Cont	: Coal-ad, tar-ad 088-3L
3596.00			089
		60 Cont	: cem 089-1L
		25 Sh/Clst:	ol gy to lt ol gy, m gy to m drk gy, calc, slt, mic, st 089-2L
		15 S/Sst	: ol gy to lt ol gy, m gy, calc, carb, cly, mic, glauc, st, cem 089-3L
3602.00			090
	0.77	60 Sh/Clst:	ol gy to lt ol gy, m gy to drk gy, calc, slt, mic, st 090-1L
		20 S/Sst	: ol gy to lt ol gy, m gy, calc, carb, cly, mic, glauc, st, cem 090-2L
		20 Cont	: cem 090-3L
		tr Cont	: Coal-ad, tar-ad 090-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3608.00				091
	0.64	50 Sh/Clst: ol gy to lt ol gy, m gy to drk gy, calc, slt, mic, st		091-1L
	0.52	50 S/Sst : ol gy to lt ol gy, m gy, calc, carb, cly, mic, glauc, st, cem		091-2L
		tr Cont : Coal-ad, cem, tar-ad		091-3L
3614.00				093
		50 S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem		093-1L
	0.88	50 Sh/Clst: ol gy to m gy to drk gy, calc, slt, mic, st		093-2L
		tr Cont : Coal-ad		093-3L
3620.00				092
	0.61	50 S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem		092-1L
		35 Sh/Clst: ol gy, m gy to drk gy, calc, slt, mic, st		092-2L
		15 Cont : Coal-ad, tar-ad		092-3L
3626.00				094
	0.42	45 S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem		094-1L
		45 Sh/Clst: ol gy to m gy to drk gy, calc, slt, mic, st		094-2L
		10 Cont		094-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3632.00				095
	0.77	65 S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem		095-1L
	0.88	35 Sh/Clst: ol gy to m gy to drk gy, calc, slt, mic, st		095-2L
		tr Cont		095-3L
3638.00				096
	1.30	50 S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem		096-1L
		30 Sh/Clst: ol gy to m gy to drk gy, calc, slt, mic, st		096-2L
		20 Cont : Coal-ad, tar-ad		096-3L
3644.00				097
		55 Sh/Clst: ol gy to m gy to drk gy, calc, slt, mic, st		097-2L
	1.13	40 S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem		097-1L
		5 Cont : Coal-ad, tar-ad		097-3L
3650.00				098
	0.52	70 S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, st, cem		098-1L
		30 Sh/Clst: y gy to ol gy, m gy to m drk gy, calc, slt, mic, st		098-2L
		tr Cont : Coal-ad		098-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
3656.00				099
	0.65	70	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	099-1L
	1.05	30	Sh/Clst: y gy to ol gy, m gy to m drk gy, calc, slt, mic, st	099-2L
			tr Cont : Coal-ad	099-3L
3662.00				100
	0.70	70	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	100-1L
		30	Sh/Clst: y gy to ol gy, m gy to m drk gy, calc, slt, mic, st	100-2L
			tr Cont : Coal-ad	100-3L
3668.00				101
		50	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	101-1L
	0.81	50	Sh/Clst: y gy to ol gy, m gy to m drk gy, calc, slt, mic, st	101-2L
			tr Other : fos	101-3L
			tr Cont : Coal-ad	101-4L
3674.00				102
	0.93	50	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	102-1L
	0.53	30	Sh/Clst: y gy to ol gy, m gy to m drk gy, calc, slt, mic, st	102-2L
		20	Cont : Coal-ad, tar-ad	102-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
3680.00				103
	0.70	50 S/Sst	: lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	103-1L
		30 Sh/Clst	: y gy to ol gy, m gy to m drk gy, calc, slt, mic, st	103-2L
		20 Cont	: Coal-ad, tar-ad	103-3L
3686.00				104
	1.09	55 Sh/Clst	: lt brn gy, y gy to ol gy, m gy to drk gy, calc, slt, mic, st	104-2L
	1.09	40 S/Sst	: y gy to ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem, lam	104-1L
		5 Cont	: Coal-ad, tar-ad	104-3L
3692.00				105
	0.49	60 Sh/Clst	: lt brn gy, y gy to ol gy, m gy to drk gy, calc, slt, mic, st	105-2L
		40 S/Sst	: y gy to ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem, lam	105-1L
		tr Cont	: Coal-ad, tar-ad	105-3L
3698.00				106
	0.77	60 Sltst	: brn gy to y gy, ol gy, m gy to drk gy, calc, carb, s, mic, glauc, st, lam	106-1L
	0.44	40 Sh/Clst	: brn gy, y gy to ol gy, drk gy, calc, slt, mic, st	106-2L
		tr Cont	: Coal-ad, tar-ad	106-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3704.00				107
	0.65	60 Sltst : brn gy to y gy, ol gy, m gy to drk gy, calc, carb, s, mic, glauc, st, lam		107-1L
	0.51	40 Sh/Clst: brn gy, y gy to ol gy, drk gy, calc, slt, mic, st		107-2L
		tr Cont : Coal-ad, tar-ad		107-3L
3710.00				108
	0.18	75 S/Sst : gy pi to y gy, calc, mic, st, cem, l		108-1L
		15 Sh/Clst: lt brn gy, y gy to ol gy, drk gy, calc, slt, mic, st		108-2L
		10 Sltst : brn gy to y gy, ol gy, m gy to drk gy, calc, s, mic, glauc, st, lam		108-3L
		tr Cont : Coal-ad, tar-ad		108-4L
3716.00				109
	0.92	90 Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st		109-1L
		5 S/Sst : gy pi to y gy, calc, mic, st, cem, l		109-2L
		5 Sltst : brn gy to lt brn gy, lt ol gy, calc, s, mic, st		109-3L
3722.00				110
	1.16	100 Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st		110-1L
		tr S/Sst : gy pi to y gy, calc, mic, st, cem, l		110-2L
		tr Sltst : brn gy to lt brn gy, lt ol gy, calc, s, mic, st		110-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3725.00				111
	0.90	100 Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st		111-1L
		tr S/Sst : gy pi to y gy, calc, mic, st, cem, l		111-2L
		tr Sltst : brn gy to lt brn gy, lt ol gy, calc, s, mic, st		111-3L
		tr Ca : brn gy to gy pi		111-4L
3734.00				112
	0.72	95 Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st		112-1L
		5 Cont : Coal-ad, tar-ad		112-4L
		tr S/Sst : gy pi to y gy, calc, mic, st, cem, l		112-2L
		tr Sltst : brn gy to lt brn gy, lt ol gy, calc, s, mic, st		112-3L
		tr Ca : brn gy to gy pi		112-5L
3740.00				113
	1.01	65 Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st		113-1L
		30 S/Sst : gy pi, crs, rnd, l		113-2L
		5 Cont : Coal-ad, tar-ad		113-3L
3746.00				114
	0.28	60 S/Sst : gy pi to ol gy, calc, mic, glauc, f, crs, st, cem, l		114-1L
	2.61	30 Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st		114-2L
		10 Cont : Coal-ad, tar-ad		114-4L
		tr Sltst : gy blk, brn gy to ol gy, calc, mic, st		114-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3752.00				115
	23.47	95 Sh/Clst: blk to brn blk, carb, slt, mic, st, fis		115-1L
		5 Coal : blk		115-2L
		tr S/Sst : gy pi, l		115-3L
3758.00				116
	17.59	75 Sh/Clst: blk to brn blk, carb, slt, mic, st, fis		116-1L
		15 S/Sst : gy pi to lt ol gy, cem, l		116-2L
		10 Coal : blk		116-3L
3764.00				117
	42.10	50 Coal : blk to brn blk		117-1L
		20 Sh/Clst: blk to brn blk, carb, slt, mic, st, fis		117-2L
		20 Cont : Coal-ad, dd, tar-ad		117-4L
		10 S/Sst : gy pi, l		117-3L
3770.00				118
	8.97	35 Coal : blk		118-1L
		35 Sh/Clst: brn blk, ol gy, drk gy, carb, slt, mic, st		118-2L
		15 S/Sst : w to gy pi, calc, st, cem		118-3L
		15 Cont : Coal-ad, tar-ad		118-4L
3776.00				119
	1.22	55 Sh/Clst: brn blk, ol gy to lt ol gy, carb, slt, mic, st		119-2L
		40 Coal : blk		119-1L
		5 S/Sst : gy pi, calc, slt, mic, f, st, cem		119-3L
		tr Cont : Coal-ad, dd		119-4L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3782.00				120
	2.19	45 Sh/Clst: brn blk, ol gy to lt ol gy, carb, slt, mic, st		120-3L
		30 Coal : blk		120-2L
		25 S/Sst : gy pi, calc, slt, mic, f, st, cem		120-1L
3789.00				121
	2.69	90 Sh/Clst: brn blk, ol gy to ol blk, drk gy, carb, slt, mic, st		121-3L
		5 S/Sst : gy pi, calc, slt, mic, f, st, cem		121-1L
		5 Coal : blk		121-2L
3794.00				122
	1.67	50 Sh/Clst: gy blk, brn gy to brn blk, ol gy to ol blk, carb, slt, mic, st		122-3L
		30 S/Sst : gy pi, calc, slt, mic, f, st, cem		122-2L
		15 Coal : blk		122-1L
		5 Cont : dd, fib		122-4L
		tr Sh/Clst: gn gy		122-5L
3800.00				123
	1.35	85 Sh/Clst: gy blk, brn gy to brn blk, ol gy to ol blk, carb, slt, mic, st		123-3L
		10 Coal : blk		123-2L
		5 S/Sst : gy pi, calc, slt, mic, f, st, cem		123-1L
		tr Sh/Clst: gn gy to drk gn gy		123-4L
		tr Sltst : brn gy, carb, mic		123-5L
3806.00				124
	0.12	50 S/Sst : w to gy pi, cem, l		124-1L
		25 Sh/Clst: brn gy to brn blk, drk gy to m drk gy, carb, slt, mic, st		124-4L
		15 Coal : blk		124-2L
		5 Sltst : brn gy, carb, mic		124-3L
		5 Sh/Clst: gn gy to drk gn gy		124-5L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
3812.00				125
	0.22	30	Sh/Clst: gy red to m brn, calc, slt	125-1L
		30	S/Sst : y gy to m brn, calc, mic, glauc, st, cem, l	125-2L
		20	Cont : Coal-ad, tar-ad	125-4L
		10	Sh/Clst: ol gy, gy blk to m gy	125-3L
		10	Ca : pl brn to pl y brn, cly, dol	125-6L
		tr	Sh/Clst: gn gy	125-5L
3818.00				126
	3.56	70	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st	126-1L
		30	S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l	126-2L
		tr	Coal : blk	126-3L
		tr	Sh/Clst: gn gy	126-4L
		tr	Ca : pl brn to pl y brn, cly, dol	126-5L
3824.00				127
	0.18	60	S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l	127-2L
		25	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st	127-1L
		15	Coal : blk	127-3L
		tr	Sh/Clst: gn gy	127-4L
		tr	Ca : pl brn to pl y brn, cly, dol	127-5L
3830.00				128
		55	S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l	128-2L
	2.64	35	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st	128-1L
		5	Sh/Clst: gn gy to dsk red	128-3L
		5	Coal : blk	128-4L
		tr	Ca : pl brn to pl y brn, cly, dol	128-5L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3836.00				129
	1.04	40 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		129-1L
	50.64	30 Coal : blk		129-3L
		25 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		129-2L
		5 Sh/Clst: gn gy to dsk red, calc		129-4L
		tr Ca : gy pi to pl brn, cly, dol		129-5L
3842.00				130
		35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		130-4L
	3.94	30 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		130-1L
		25 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		130-2L
		10 Coal : blk		130-3L
3845.00				131
	0.96	35 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		131-1L
	0.17	35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		131-4L
		20 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		131-2L
		10 Coal : blk		131-3L
3854.00				132
		40 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		132-4L
	1.13	30 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		132-1L
		20 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		132-2L
		10 Coal : blk		132-3L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3860.00				133
	0.13	50 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		133-4L
		25 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		133-1L
		20 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		133-2L
		5 Coal : blk		133-3L
		tr Ca : y gy to pl brn, cly, dol		133-5L
3866.00				134
	4.27	30 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		134-1L
		30 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		134-4L
		25 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		134-2L
		15 Coal : blk		134-3L
3872.00				135
		35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		135-4L
	1.25	30 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		135-1L
		25 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		135-2L
		10 Coal : blk		135-3L
3878.00				136
	0.13	40 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		136-4L
		25 Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy, carb, slt, mic, st		136-1L
		20 Coal : blk		136-3L
		15 S/Sst : gy pi to lt ol gy, calc, mic, st, cem, l		136-2L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3884.00				137
	0.82	30 Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, slt, mic, st		137-1L
	0.20	30 S/Sst : gy pi, y gy to lt ol gy, calc, mic, st, cem, l		137-2L
		30 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		137-4L
		10 Coal : blk		137-3L
3890.00				138
	3.20	30 Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, slt, mic, st		138-1L
		25 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		138-4L
		20 Coal : blk		138-3L
		15 Cont : Coal-ad, tar-ad		138-5L
		10 S/Sst : gy pi, y gy to lt ol gy, calc, mic, st, cem, l		138-2L
		tr Ca : m gy, dol		138-6L
3896.00				139
	1.62	40 Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, slt, mic, st		139-1L
		35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		139-4L
		15 S/Sst : gy pi, y gy to lt ol gy, calc, mic, st, cem, l		139-2L
		10 Coal : blk		139-3L
		tr Ca : y gy to m gy, dol		139-5L
3902.00				140
	6.85	35 Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, slt, mic, st		140-3L
		35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		140-4L
		20 S/Sst : gy pi, gn gy to lt ol gy, calc, mic, glauc, st, cem, l		140-1L
		10 Coal : blk		140-2L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3908.00				141
	0.17	35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		141-4L
		30 S/Sst : gn gy to y gy, ol gy		141-1L
	0.81	20 Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, slt, mic, st		141-3L
		10 Cont : Coal-ad, tar-ad		141-5L
		5 Coal : blk		141-2L
3914.00				142
	0.30	40 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		142-4L
		30 Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, slt, mic, st		142-3L
		25 S/Sst : gn gy to y gy, ol gy		142-1L
		5 Coal : blk		142-2L
3920.00				143
		35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		143-4L
	2.50	30 Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, slt, mic, st		143-3L
		20 S/Sst : gn gy to y gy, ol gy		143-1L
		10 Coal : blk		143-2L
		5 Ca : y gy to pl brn, cly, dol		143-5L
3926.00				144
	2.10	35 Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, slt, mic, st		144-3L
		35 Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc		144-4L
		15 S/Sst : gy pi, gn gy, y gy, calc, mic, glauc, st, cem, l		144-1L
		15 Coal : blk		144-2L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
3932.00				145
	2.33	35	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, slt, mic, st	145-3L
		35	Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc	145-4L
		15	S/Sst : gy pi, gn gy, y gy, calc, mic, glauc, st, cem, l	145-1L
		15	Coal : blk	145-2L
3938.00				146
		35	Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc	146-4L
	3.24	30	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, slt, mic, st	146-3L
	0.28	20	S/Sst : gy pi, gn gy, y gy, calc, mic, glauc, st, cem, l	146-1L
		15	Coal : blk	146-2L
3944.00				147
	1.84	30	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, slt, mic, st	147-3L
		30	Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc	147-4L
		25	S/Sst : gy pi, gn gy, y gy, calc, mic, glauc, st, cem, l	147-1L
		15	Coal : blk	147-2L
3950.00				148
	0.17	25	S/Sst : gy pi, gn gy, y gy, calc, mic, glauc, st, cem, l	148-1L
		25	Coal : blk	148-2L
		25	Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc	148-4L
		20	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, slt, mic, st	148-3L
		5	Ca : ol gy to lt gn gy, cly, dol	148-5L

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

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
3956.00				149
	1.39	30 Sltst : brn gy, gn gy, red gy, calc, mic		149-3L
		20 Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy, mic		149-5L
		15 S/Sst : y gy to lt ol gy, calc, mic, cem		149-1L
		15 Sh/Clst: gy red, gn gy, red blk, calc, mic		149-6L
		10 Coal : blk		149-2L
		10 Ca : gy pi, cly		149-4L
3962.00				150
		40 Sh/Clst: gy red, gn gy, red blk, calc, slt, mic		150-5L
	5.82	25 Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy, carb, mic		150-6L
		15 Sltst : brn gy, y gy, ol gy, m gy, mic		150-3L
		10 S/Sst : y gy to lt ol gy, calc, mic, cem		150-1L
		5 Coal : blk		150-2L
		5 Ca : w to gy pi, cly		150-4L
		tr Other : evap		150-7L
3968.00				151
	50.01	40 Coal : blk		151-2L
		20 Sh/Clst: gy red, gn gy, red blk, calc, slt, mic		151-5L
		20 Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy, carb, mic		151-6L
		10 S/Sst : y gy to lt ol gy, calc, mic, cem		151-1L
		5 Sltst : brn gy, y gy, ol gy, m gy, mic		151-3L
		5 Ca : w to gy pi, cly		151-4L
		tr Other : evap		151-7L

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

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%	Lithology description	

3974.00			152
	0.58	40 Sh/Clst: gy red, gn gy, red blk, calc, slt, mic	152-4L
		35 Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy, carb, slt, mic	152-5L
		15 Sltst : brn gy, y gy, ol gy, m gy, mic	152-3L
		5 Coal : blk	152-2L
		5 Other : evap	152-6L
		tr S/Sst : y gy to lt ol gy, calc, mic, cem	152-1L
3980.00			153
	6.88	40 Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy, carb, slt, mic	153-6L
		35 Sh/Clst: gy red, gn gy, red blk	153-2L
		10 Coal : blk	153-1L
		5 S/Sst : gy pi to y gy, mic, cem	153-3L
		5 Sh/Clst: w, gy pi to lt gy, calc	153-4L
		5 Other : evap	153-5L
3986.00			154
	13.54	40 Sh/Clst: gy red, gn gy, red blk	154-2L
		40 Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy, carb, slt, mic	154-6L
		15 Coal : blk	154-1L
		5 Other : evap	154-5L
		tr S/Sst : gy pi to y gy, mic, cem	154-3L
		tr Sh/Clst: w, gy pi to lt gy, calc	154-4L
3992.00			155
	1.87	45 Sh/Clst: brn gy, ol gy, m gy to m drk gy, calc, carb, slt, mic	155-6L
	0.11	30 Sh/Clst: gy red, gn gy, red blk	155-2L
		10 S/Sst : gy pi to y gy, mic, cem	155-3L
		5 Coal : blk	155-1L
		5 Sh/Clst: w, gy pi to lt gy, calc	155-4L
		5 Other : evap	155-5L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1470.00	cut	Sh/Clst: brn gy to ol gy	0.11	0.82	0.84	0.98	1.21	68	69	0.9	0.12	422	156-1L
1730.00	cut	Sh/Clst: brn gy to brn blk	0.18	2.88	1.10	2.62	2.85	101	39	3.1	0.06	429	157-1L
1880.00	cut	Sh/Clst: brn gy to brn blk	0.20	5.76	1.30	4.43	4.72	122	28	6.0	0.03	432	158-1L
2070.00	cut	Sh/Clst: brn gy, brn blk, ol gy	0.11	3.41	1.02	3.34	2.88	118	35	3.5	0.03	434	159-1L
2240.00	cut	Sh/Clst: brn gy to brn blk, ol gy to lt ol gy	0.04	1.34	0.52	2.58	1.24	108	42	1.4	0.03	435	160-1L
2390.00	cut	Sh/Clst: brn gy, ol gy to lt ol gy	0.08	1.68	0.30	5.60	1.60	105	19	1.8	0.05	433	161-1L
2520.00	cut	Sh/Clst: brn gy to ol gy	0.06	0.90	0.43	2.09	1.36	66	32	1.0	0.06	435	162-1L
2715.00	cut	Sh/Clst: brn gy, ol gy, drk gy	0.09	1.51	0.44	3.43	1.96	77	22	1.6	0.06	428	163-1L
2920.00	cut	Sh/Clst: m lt gy to m drk gy	0.03	0.29	0.26	1.12	0.87	33	30	0.3	0.09	430	164-2L
2920.00	cut	Sh/Clst: brn gy to ol gy, lt ol gy	0.05	0.77	0.23	3.35	1.06	73	22	0.8	0.06	433	164-3L
3085.00	cut	Ca : w to pl y brn	-	0.01	0.23	0.04	0.13	8	177	-	-	433	165-1L
3185.00	cut	Sh/Clst: brn gy to brn blk, ol gy, m gy	0.06	0.73	0.34	2.15	1.15	63	30	0.8	0.08	431	166-2L
3200.00	cut	Sh/Clst: brn gy to ol gy, m gy to m drk gy	0.07	0.42	0.24	1.75	0.91	46	26	0.5	0.14	424	027-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3220.00	cut	Sh/Clst: brn gy to brn blk, ol gy to ol blk, gy blk to m drk gy	0.03	0.35	0.23	1.52	0.80	44	29	0.4	0.08	430	031-2L
3230.00	cut	Sh/Clst: brn gy, ol gy, m gy to m drk gy	0.08	1.14	0.37	3.08	1.36	84	27	1.2	0.07	431	033-2L
3248.00	cut	Sh/Clst: ol gy	0.03	0.10	0.31	0.32	0.42	24	74	0.1	0.23	431	036-1L
3260.00	cut	Sh/Clst: ol gy	0.02	0.12	0.28	0.43	0.48	25	58	0.1	0.14	434	038-1L
3272.00	cut	Sh/Clst: y gy, ol blk to lt ol gy	0.03	0.16	0.26	0.62	0.46	35	57	0.2	0.16	430	040-1L
3296.00	cut	Sh/Clst: y gy, ol blk to lt ol gy	0.02	0.08	0.22	0.36	0.39	21	56	0.1	0.20	432	043-1L
3302.00	cut	Sh/Clst: ol blk to lt ol gy	0.01	0.04	0.16	0.25	0.33	12	48	0.1	0.20	431	044-1L
3308.00	cut	Sh/Clst: ol blk to lt ol gy	0.02	0.06	0.16	0.38	0.33	18	48	0.1	0.25	432	045-1L
3314.00	cut	Sh/Clst: ol blk to lt ol gy	0.06	0.43	0.16	2.69	0.59	73	27	0.5	0.12	438	046-1L
3320.00	cut	Sh/Clst: ol blk to lt ol gy	0.04	0.39	0.14	2.79	0.60	65	23	0.4	0.09	438	047-1L
3326.00	cut	Sh/Clst: brn blk, ol blk to lt ol gy	0.04	0.28	0.14	2.00	0.54	52	26	0.3	0.13	436	048-1L
3332.00	cut	Sh/Clst: ol blk to lt ol gy	0.07	0.44	0.19	2.32	0.59	75	32	0.5	0.14	438	049-1L
3338.00	cut	Sh/Clst: ol blk to lt ol gy	0.03	0.06	0.11	0.55	0.32	19	34	0.1	0.33	436	050-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3344.00	cut	Sh/Clst: ol blk to lt ol gy	0.04	0.25	0.16	1.56	0.54	46	30	0.3	0.14	436	051-1L
3350.00	cut	Sh/Clst: ol blk to lt ol gy	0.07	0.71	0.16	4.44	0.70	101	23	0.8	0.09	439	052-1L
3368.00	cut	Sh/Clst: ol blk to lt ol gy	0.07	0.52	0.15	3.47	0.71	73	21	0.6	0.12	437	053-1L
3374.00	cut	Sh/Clst: ol blk to lt ol gy	0.04	0.31	0.25	1.24	0.55	56	45	0.3	0.11	435	054-1L
3380.00	cut	Sh/Clst: ol blk to lt ol gy	0.08	0.43	0.24	1.79	0.69	62	35	0.5	0.16	435	055-1L
3386.00	cut	Sh/Clst: ol blk to lt ol gy	0.12	1.14	0.15	7.60	0.92	124	16	1.3	0.10	437	056-1L
3392.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	0.12	1.06	0.12	8.83	0.84	126	14	1.2	0.10	437	057-1L
3398.00	cut	S/Sst : lt brn gy to lt ol gy	0.06	0.27	0.17	1.59	0.35	77	49	0.3	0.18	437	058-2L
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	0.24	3.20	0.22	14.55	1.40	229	16	3.4	0.07	437	059-1L
3410.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	0.11	0.99	0.14	7.07	0.83	119	17	1.1	0.10	438	060-1L
3416.00	cut	S/Sst : lt brn gy to lt ol gy	0.10	0.50	0.15	3.33	0.39	128	38	0.6	0.17	436	061-2L
3422.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy	0.07	0.40	0.13	3.08	0.61	66	21	0.5	0.15	435	062-1L
3422.00	cut	S/Sst : lt brn gy to lt ol gy	0.06	0.20	0.11	1.82	0.26	77	42	0.3	0.23	438	062-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3428.00	cut	S/Sst : lt brn gy to lt ol gy, m drk gy	0.02	0.18	0.12	1.50	0.24	75	50	0.2	0.10	436	063-2L
3440.00	cut	S/Sst : lt brn gy to lt ol gy, m drk gy	0.03	0.17	0.14	1.21	0.29	59	48	0.2	0.15	437	065-2L
3446.00	cut	S/Sst : lt brn gy to lt ol gy, m drk gy	0.03	0.26	0.16	1.63	0.30	87	53	0.3	0.10	437	066-2L
3452.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy	0.04	0.51	0.25	2.04	0.70	73	36	0.6	0.07	435	067-1L
3458.00	cut	S/Sst : lt brn gy to lt ol gy, m drk gy	0.03	0.20	0.18	1.11	0.33	61	55	0.2	0.13	436	068-2L
3464.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy	0.04	0.72	0.19	3.79	0.73	99	26	0.8	0.05	434	069-1L
3470.00	cut	S/Sst : lt brn gy to lt ol gy	0.05	0.37	0.10	3.70	0.27	137	37	0.4	0.12	436	070-2L
3488.00	cut	S/Sst : lt brn gy to lt ol gy	0.03	0.37	0.12	3.08	0.34	109	35	0.4	0.07	436	072-2L
3494.00	cut	S/Sst : lt brn gy to lt ol gy	0.01	0.25	0.08	3.13	0.29	86	28	0.3	0.04	434	073-2L
3503.00	cut	Sh/Clst: ol gy to lt ol gy	0.02	0.25	0.23	1.09	0.54	46	43	0.3	0.07	431	074-1L
3512.00	cut	S/Sst : lt brn gy to lt ol gy	0.02	0.17	0.18	0.94	0.25	68	72	0.2	0.11	432	076-1L
3518.00	cut	Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy	0.01	0.07	0.27	0.26	0.42	17	64	0.1	0.13	438	077-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3530.00	cut	S/Sst : lt brn gy to lt ol gy	0.04	0.26	0.24	1.08	0.35	74	69	0.3	0.13	436	078-1L
3536.00	cut	S/Sst : lt brn gy to lt ol gy	0.04	0.22	0.16	1.38	0.29	76	55	0.3	0.15	433	079-1L
3542.00	cut	S/Sst : lt brn gy to lt ol gy	0.05	0.28	0.12	2.33	0.38	74	32	0.3	0.15	435	080-1L
3548.00	cut	Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy	0.08	1.22	0.21	5.81	1.01	121	21	1.3	0.06	435	081-2L
3554.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy	0.07	1.12	0.25	4.48	1.04	108	24	1.2	0.06	433	082-2L
3560.00	cut	S/Sst : y gy to lt ol gy	0.05	0.33	0.20	1.65	0.36	92	56	0.4	0.13	433	083-1L
3560.00	cut	Sh/Clst: ol gy, drk gy to m drk gy	0.05	0.50	0.20	2.50	0.70	71	29	0.6	0.09	432	083-2L
3566.00	cut	Sh/Clst: ol gy, m gy to m drk gy	0.01	0.11	0.29	0.38	0.48	23	60	0.1	0.08	429	084-2L
3572.00	cut	Sh/Clst: ol gy, m gy to m drk gy	0.03	0.18	0.28	0.64	0.47	38	60	0.2	0.14	434	085-2L
3578.00	cut	Sh/Clst: ol gy, m gy to m drk gy	0.02	0.20	0.18	1.11	0.49	41	37	0.2	0.09	428	086-2L
3584.00	cut	S/Sst : ol gy to lt ol gy, m drk gy	0.06	0.39	0.19	2.05	0.45	87	42	0.4	0.13	436	087-1L
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	0.07	1.17	0.24	4.88	0.96	122	25	1.2	0.06	435	087-2L
3587.00	cut	Sh/Clst: ol gy to lt ol gy, m gy to m drk gy	0.01	0.09	0.19	0.47	0.42	21	45	0.1	0.10	427	088-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3602.00	cut	Sh/Clst: ol gy to lt ol gy, m gy to drk gy	0.06	0.61	0.26	2.35	0.77	79	34	0.7	0.09	435	090-1L
3608.00	cut	Sh/Clst: ol gy to lt ol gy, m gy to drk gy	0.03	0.38	0.14	2.71	0.64	59	22	0.4	0.07	433	091-1L
3608.00	cut	S/Sst : ol gy to lt ol gy, m gy	0.09	0.55	0.23	2.39	0.52	106	44	0.6	0.14	438	091-2L
3614.00	cut	Sh/Clst: ol gy to m gy to drk gy	0.11	1.12	0.12	9.33	0.88	127	14	1.2	0.09	434	093-2L
3620.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	0.11	0.72	0.24	3.00	0.61	118	39	0.8	0.13	437	092-1L
3626.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	0.02	0.11	0.13	0.85	0.42	26	31	0.1	0.15	430	094-1L
3632.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	0.23	1.59	0.15	10.60	0.77	206	19	1.8	0.13	436	095-1L
3632.00	cut	Sh/Clst: ol gy to m gy to drk gy	0.09	1.14	0.16	7.13	0.88	130	18	1.2	0.07	439	095-2L
3638.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	0.30	3.05	0.41	7.44	1.30	235	32	3.3	0.09	438	096-1L
3644.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	0.10	1.70	0.18	9.44	1.13	150	16	1.8	0.06	433	097-1L
3650.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	0.09	0.48	0.18	2.67	0.52	92	35	0.6	0.16	436	098-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3656.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	0.12	0.75	0.30	2.50	0.65	115	46	0.9	0.14	435	099-1L
3656.00	cut	Sh/Clst: y gy to ol gy, m gy to m drk gy	0.12	1.71	0.15	11.40	1.05	163	14	1.8	0.07	434	099-2L
3662.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	0.15	0.91	0.15	6.07	0.70	130	21	1.1	0.14	436	100-1L
3668.00	cut	Sh/Clst: y gy to ol gy, m gy to m drk gy	0.07	0.79	0.17	4.65	0.81	98	21	0.9	0.08	431	101-2L
3674.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	0.24	1.61	0.34	4.74	0.93	173	37	1.9	0.13	437	102-1L
3674.00	cut	Sh/Clst: y gy to ol gy, m gy to m drk gy	0.04	0.26	0.17	1.53	0.53	49	32	0.3	0.13	434	102-2L
3680.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	0.17	0.97	0.19	5.11	0.70	139	27	1.1	0.15	434	103-1L
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	0.30	2.09	0.24	8.71	1.09	192	22	2.4	0.13	439	104-1L
3686.00	cut	Sh/Clst: lt brn gy, y gy to ol gy, m gy to drk gy	0.13	1.35	0.26	5.19	1.09	124	24	1.5	0.09	438	104-2L
3692.00	cut	Sh/Clst: lt brn gy, y gy to ol gy, m gy to drk gy	0.04	0.20	0.18	1.11	0.49	41	37	0.2	0.17	435	105-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3698.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy	0.29	1.31	0.15	8.73	0.77	170	19	1.6	0.18	437	106-1L
3698.00	cut	Sh/Clst: brn gy, y gy to ol gy, drk gy	0.04	0.16	0.18	0.89	0.44	36	41	0.2	0.20	430	106-2L
3704.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy	0.37	1.00	0.16	6.25	0.65	154	25	1.4	0.27	436	107-1L
3704.00	cut	Sh/Clst: brn gy, y gy to ol gy, drk gy	0.07	0.22	0.16	1.38	0.51	43	31	0.3	0.24	433	107-2L
3710.00	cut	S/Sst : gy pi to y gy	0.06	0.13	0.09	1.44	0.18	72	50	0.2	0.32	426	108-1L
3716.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	0.09	1.27	0.16	7.94	0.92	138	17	1.4	0.07	438	109-1L
3722.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	0.14	2.06	0.14	14.71	1.16	178	12	2.2	0.06	437	110-1L
3725.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	0.10	1.24	0.13	9.54	0.90	138	14	1.3	0.07	438	111-1L
3734.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	0.07	0.67	0.19	3.53	0.72	93	26	0.7	0.09	436	112-1L
3740.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	0.16	1.09	0.17	6.41	1.01	108	17	1.3	0.13	438	113-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3746.00	cut	S/Sst : gy pi to ol gy	0.04	0.09	0.15	0.60	0.28	32	54	0.1	0.31	431	114-1L
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	0.66	8.87	0.18	49.28	2.61	340	7	9.5	0.07	447	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	2.62	180.65	1.01	178.86	23.47	770	4	183.3	0.01	452	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	5.10	93.98	0.61	154.07	17.59	534	3	99.1	0.05	448	116-1L
3764.00	cut	Coal : blk to brn blk	5.41	72.11	3.17	22.75	42.10	171	8	77.5	0.07	443	117-1L
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	1.73	43.55	0.58	75.09	8.97	486	6	45.3	0.04	448	118-2L
3776.00	cut	Sh/Clst: brn blk, ol gy to lt ol gy	0.10	1.23	0.41	3.00	1.22	101	34	1.3	0.08	443	119-2L
3782.00	cut	Sh/Clst: brn blk, ol gy to lt ol gy	0.19	3.74	0.34	11.00	2.19	171	16	3.9	0.05	449	120-3L
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	0.18	13.17	0.19	69.32	2.69	490	7	13.4	0.01	448	121-3L
3794.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy to ol blk	0.10	2.46	0.22	11.18	1.67	147	13	2.6	0.04	450	122-3L
3800.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy to ol blk	0.06	0.72	0.23	3.13	1.35	53	17	0.8	0.08	443	123-3L
3806.00	cut	S/Sst : w to gy pi	-	0.02	0.07	0.29	0.12	17	58	-	-	448	124-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3812.00	cut	Sh/Clst: gy red to m brn	-	0.04	0.25	0.16	0.22	18	114	-	-	434	125-1L
3818.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.22	15.68	0.21	74.67	3.56	440	6	15.9	0.01	448	126-1L
3824.00	cut	S/Sst : gy pi to lt ol gy	0.01	0.06	0.10	0.60	0.18	33	56	0.1	0.14	439	127-2L
3830.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.51	6.54	0.17	38.47	2.64	248	6	7.1	0.07	442	128-1L
3836.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.12	1.24	0.22	5.64	1.04	119	21	1.4	0.09	443	129-1L
3836.00	cut	Coal : blk	6.80	101.66	2.36	43.08	50.64	201	5	108.5	0.06	445	129-3L
3842.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.42	5.57	0.51	10.92	3.94	141	13	6.0	0.07	442	130-1L
3845.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.09	0.86	0.30	2.87	0.96	90	31	1.0	0.09	441	131-1L
3845.00	cut	Sh/Clst: gn gy, m brn, drk gn gy, dsk red	-	0.02	0.30	0.07	0.17	12	176	-	-	445	131-4L
3854.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.11	1.12	0.23	4.87	1.13	99	20	1.2	0.09	440	132-1L
3860.00	cut	Sh/Clst: gn gy, m brn, drk gn gy, dsk red	-	0.01	0.31	0.03	0.13	8	238	-	-	401	133-4L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3866.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.72	9.18	0.25	36.72	4.27	215	6	9.9	0.07	444	134-1L
3872.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	0.11	2.08	0.22	9.45	1.25	166	18	2.2	0.05	448	135-1L
3878.00	cut	Sh/Clst: gn gy, m brn, drk gn gy, dsk red	-	0.02	0.27	0.07	0.13	15	208	-	-	451	136-4L
3884.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	0.10	1.12	0.14	8.00	0.82	137	17	1.2	0.08	437	137-1L
3884.00	cut	S/Sst : gy pi, y gy to lt ol gy	-	0.02	0.15	0.13	0.20	10	75	-	-	434	137-2L
3890.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	0.70	9.38	0.30	31.27	3.20	293	9	10.1	0.07	446	138-1L
3896.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	0.29	3.28	0.34	9.65	1.62	202	21	3.6	0.08	441	139-1L
3902.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	0.88	9.24	0.44	21.00	6.85	135	6	10.1	0.09	441	140-3L
3908.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	0.08	0.49	0.35	1.40	0.81	60	43	0.6	0.14	441	141-3L
3908.00	cut	Sh/Clst: gn gy, m brn, drk gn gy, dsk red	0.01	0.05	0.32	0.16	0.17	29	188	0.1	0.17	380	141-4L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3914.00	cut	Sh/Clst: gn gy, m brn, drk gn gy, dsk red	-	0.11	0.22	0.50	0.30	37	73	0.1	-	443	142-4L
3920.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	0.61	7.52	0.15	50.13	2.50	301	6	8.1	0.08	442	143-3L
3926.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	0.54	4.63	0.25	18.52	2.10	220	12	5.2	0.10	441	144-3L
3932.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	0.56	6.45	0.40	16.13	2.33	277	17	7.0	0.08	443	145-3L
3938.00	cut	S/Sst : gy pi, gn gy, y gy	-	0.03	0.23	0.13	0.28	11	82	-	-	442	146-1L
3938.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	0.46	5.74	0.23	24.96	3.24	177	7	6.2	0.07	445	146-3L
3944.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	0.39	4.31	0.29	14.86	1.84	234	16	4.7	0.08	440	147-3L
3950.00	cut	S/Sst : gy pi, gn gy, y gy	-	-	0.21	-	0.17	-	124	-	-	-	148-1L
3956.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	0.16	2.26	0.24	9.42	1.39	163	17	2.4	0.07	445	149-5L
3962.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	1.31	12.86	0.29	44.34	5.82	221	5	14.2	0.09	441	150-6L
3968.00	cut	Coal : blk	8.46	89.84	2.92	30.77	50.01	180	6	98.3	0.09	444	151-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3974.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	0.02	0.28	0.39	0.72	0.58	48	67	0.3	0.07	436	152-5L
3980.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	0.69	19.78	0.32	61.81	6.88	288	5	20.5	0.03	448	153-6L
3986.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	2.58	34.36	0.56	61.36	13.54	254	4	36.9	0.07	444	154-6L
3992.00	cut	Sh/Clst: gy red, gn gy, red blk	-	0.01	0.27	0.04	0.11	9	245	-	-	448	155-2L
3992.00	cut	Sh/Clst: brn gy, ol gy, m gy to m drk gy	0.18	6.29	0.17	37.00	1.87	336	9	6.5	0.03	447	155-6L

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

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
3392.00	com	Composite sample - see table 3 e	9.8	4.7	1.6	1.4	0.7	1.0	3.0	1.7	0.94	181-0B
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	2.0	2.8	0.8	0.5	0.4	1.1	1.3	1.5	1.14	059-1L
3554.00	com	Composite sample - see table 3 e	5.8	2.3	1.0	0.8	0.5	-	1.8	0.5	0.75	182-0B
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	1.5	2.2	0.2	0.1	0.1	1.8	0.3	1.9	0.69	087-2L
3644.00	com	Composite sample - see table 3 e	1.5	2.6	0.4	0.7	0.8	0.7	1.1	1.5	0.96	183-0B
3680.00	com	Composite sample - see table 3 e	1.4	1.3	0.1	0.4	0.5	0.3	0.5	0.8	0.84	184-0B
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	1.3	2.6	1.0	0.3	0.5	0.8	1.3	1.3	0.81	104-1L
3704.00	com	Composite sample - see table 3 e	1.1	4.5	0.5	2.5	0.5	1.0	3.0	1.5	0.99	185-0B
3725.00	com	Composite sample - see table 3 e	9.7	6.2	2.4	1.3	0.4	2.1	3.7	2.5	0.82	186-0B
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	1.1	3.4	0.8	1.1	0.5	1.0	1.9	1.5	1.77	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	7.6	74.8	20.4	10.2	4.9	39.3	30.6	44.2	3.02	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	9.3	149.6	23.6	17.1	33.4	75.5	40.7	108.9	26.20	116-1L

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

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
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	2.9	27.8	0.1	3.5	3.8	20.4	3.6	24.2	16.10	118-2L
3782.00	com	Composite sample - see table 3 e	3.0	9.9	2.0	0.8	1.0	6.1	2.8	7.1	4.59	187-0B
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	8.4	20.8	3.7	2.3	1.9	12.9	6.0	14.8	4.60	121-3L
3896.00	com	Composite sample - see table 3 e	2.3	6.4	1.0	0.4	0.6	4.4	1.4	5.0	2.43	188-0B
3938.00	com	Composite sample - see table 3 e	6.0	24.9	5.2	3.0	2.8	13.9	8.2	16.7	4.70	189-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3392.00	com	Composite sample - see table 3 e	478	162	142	71	101	305	172	181-0B
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	1372	392	245	196	539	637	735	059-1L
3554.00	com	Composite sample - see table 3 e	396	172	137	86	-	310	86	182-0B
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	1447	131	65	65	1184	197	1250	087-2L
3644.00	com	Composite sample - see table 3 e	1780	273	479	547	479	753	1027	183-0B
3680.00	com	Composite sample - see table 3 e	928	71	285	357	214	357	571	184-0B
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	2047	787	236	393	629	1023	1023	104-1L
3704.00	com	Composite sample - see table 3 e	4205	467	2336	467	934	2803	1401	185-0B
3725.00	com	Composite sample - see table 3 e	641	248	134	41	217	383	258	186-0B
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	3148	740	1018	462	925	1759	1388	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	9894	2698	1349	648	5198	4047	5846	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	16172	2551	1848	3610	8162	4400	11772	116-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	9455	34	1190	1292	6938	1224	8231	118-2L
3782.00	com	Composite sample - see table 3 e	3355	677	271	338	2067	949	2406	187-0B
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	2473	439	273	225	1533	713	1759	121-3L
3896.00	com	Composite sample - see table 3 e	2746	429	171	257	1888	600	2145	188-0B
3938.00	com	Composite sample - see table 3 e	4129	862	497	464	2305	1359	2769	189-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3392.00	com	Composite sample - see table 3 e	50.86	17.32	15.15	7.58	10.82	32.47	18.40	181-0B
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	120.40	34.40	21.50	17.20	47.30	55.90	64.50	059-1L
3554.00	com	Composite sample - see table 3 e	52.87	22.99	18.39	11.49	-	41.38	11.49	182-0B
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	209.76	19.07	9.53	9.53	171.62	28.60	181.16	087-2L
3644.00	com	Composite sample - see table 3 e	185.50	28.54	49.94	57.08	49.94	78.48	107.02	183-0B
3680.00	com	Composite sample - see table 3 e	110.54	8.50	34.01	42.52	25.51	42.52	68.03	184-0B
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	252.75	97.21	29.16	48.61	77.77	126.37	126.37	104-1L
3704.00	com	Composite sample - see table 3 e	424.81	47.20	236.00	47.20	94.40	283.21	141.60	185-0B
3725.00	com	Composite sample - see table 3 e	78.27	30.30	16.41	5.05	26.51	46.71	31.56	186-0B
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	177.86	41.85	57.54	26.16	52.31	99.39	78.47	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	327.62	89.35	44.68	21.46	172.13	134.03	193.59	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	61.73	9.74	7.06	13.78	31.15	16.79	44.94	116-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	58.73	0.21	7.39	8.03	43.10	7.61	51.13	118-2L
3782.00	com	Composite sample - see table 3 e	73.11	14.77	5.91	7.39	45.05	20.68	52.44	187-0B
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	53.77	9.56	5.95	4.91	33.35	15.51	38.26	121-3L
3896.00	com	Composite sample - see table 3 e	113.04	17.66	7.06	10.60	77.71	24.73	88.31	188-0B
3938.00	com	Composite sample - see table 3 e	87.86	18.35	10.59	9.88	49.05	28.93	58.93	189-0B

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

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	
3392.00	com	Composite sample - see table 3 e	34.04	29.79	14.89	21.28	63.83	36.17	114.29	176.47	181-0B
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	28.57	17.86	14.29	39.29	46.43	53.57	160.00	86.67	059-1L
3554.00	com	Composite sample - see table 3 e	43.48	34.78	21.74	-	78.26	21.74	125.00	360.00	182-0B
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	9.09	4.55	4.55	81.82	13.64	86.36	200.00	15.79	087-2L
3644.00	com	Composite sample - see table 3 e	15.38	26.92	30.77	26.92	42.31	57.69	57.14	73.33	183-0B
3680.00	com	Composite sample - see table 3 e	7.69	30.77	38.46	23.08	38.46	61.54	25.00	62.50	184-0B
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	38.46	11.54	19.23	30.77	50.00	50.00	333.33	100.00	104-1L
3704.00	com	Composite sample - see table 3 e	11.11	55.56	11.11	22.22	66.67	33.33	20.00	200.00	185-0B
3725.00	com	Composite sample - see table 3 e	38.71	20.97	6.45	33.87	59.68	40.32	184.62	148.00	186-0B
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	23.53	32.35	14.71	29.41	55.88	44.12	72.73	126.67	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	27.27	13.64	6.55	52.54	40.91	59.09	200.00	69.23	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	15.78	11.43	22.33	50.47	27.21	72.79	138.01	37.37	116-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	0.36	12.59	13.67	73.38	12.95	87.05	2.86	14.88	118-2L
3782.00	com	Composite sample - see table 3 e	20.20	8.08	10.10	61.62	28.28	71.72	250.00	39.44	187-0B
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	17.79	11.06	9.13	62.02	28.85	71.15	160.87	40.54	121-3L
3896.00	com	Composite sample - see table 3 e	15.63	6.25	9.38	68.75	21.88	78.13	250.00	28.00	188-0B
3938.00	com	Composite sample - see table 3 e	20.88	12.05	11.24	55.82	32.93	67.07	173.33	49.10	189-0B

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>
3386.00	3392.00	com	181-0B is composed of:	3386.00	cut	Sh/Clst: ol blk to lt ol gy	056-1L
				3392.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy, calc, carb, silt, mic, st	057-1L
3548.00	3554.00	com	182-0B is composed of:	3548.00	cut	Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy, calc, silt, mic, st	081-2L
				3554.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy, calc, silt, mic, st	082-2L
3632.00	3644.00	com	183-0B is composed of:	3632.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem	095-1L
				3638.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem	096-1L
				3644.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy, calc, carb, cly, mic, glauc, st, cem	097-1L
3656.00	3680.00	com	184-0B is composed of:	3656.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	099-1L
				3662.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	100-1L
				3674.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly,	102-1L

Tal 3 e: List of composite samples appearing in the extraction tables for well NOCS 2/2-1

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>
				3680.00	cut	S/Sst : mic, glauc, f, st, cem : lt brn gy to lt ol gy, m gy to m drk gy, calc, carb, cly, mic, glauc, f, st, cem	103-1L
3698.00	3704.00	com	185-0B is composed of:	3698.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy, calc, carb, s, mic, glauc, st, lam	106-1L
				3704.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy, calc, carb, s, mic, glauc, st, lam	107-1L
3716.00	3725.00	com	186-0B is composed of:	3716.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st	109-1L
				3722.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st	110-1L
				3725.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy, calc, slt, mic, st	111-1L
3776.00	3782.00	com	187-0B is composed of:	3776.00	cut	Sh/Clst: brn blk, ol gy to lt ol gy, carb, slt, mic, st	119-2L
				3782.00	cut	Sh/Clst: brn blk, ol gy to lt ol gy, carb, slt, mic, st	120-3L

Table 3 e: List of composite samples appearing in the extraction tables for well NOCS 2/2-1

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>
3890.00	3896.00	com	188-0B is composed of:	3890.00	cut	Sh/Clst: gn gy, m brn, drk gn gy, dsk red, calc	138-4L
				3896.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, silt, mic, st	139-1L
3920.00	3938.00	com	189-0B is composed of:	3920.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy, carb, silt, mic, st	143-3L
				3926.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, silt, mic, st	144-3L
				3932.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, silt, mic, st	145-3L
				3938.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy, carb, silt, mic, st	146-3L

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

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
3392.00	com	bulk	0.78	2.19	0.71	0.58	1.33	181-0B
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	0.80	1.22	0.77	0.73	1.20	059-1L
3554.00	com	bulk	0.72	1.50	0.64	0.55	1.24	182-0B
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	0.48	1.18	0.40	0.33	1.04	087-2L
3644.00	com	bulk	0.65	1.40	0.54	0.45	1.14	183-0B
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	0.54	1.57	0.45	0.37	1.20	104-1L
3704.00	com	bulk	0.52	1.64	0.43	0.33	1.15	185-0B
3725.00	com	bulk	0.85	1.79	0.73	0.58	1.24	186-0B
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	0.56	1.57	0.48	0.39	1.21	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	0.54	2.00	0.44	0.32	1.30	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	0.49	3.76	0.33	0.14	1.33	116-1L
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	0.50	2.88	0.34	0.17	1.36	118-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
3782.00	com	bulk	0.53	2.26	0.38	0.24	1.27	187-0B
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	0.50	2.09	0.38	0.26	1.30	121-3L
3896.00	com	bulk	0.51	1.69	0.45	0.36	1.24	188-0B
3938.00	com	bulk	0.56	1.94	0.46	0.34	1.27	189-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
3392.00	com	bulk	0.77	2.26	0.08	0.74	0.62	0.54	0.19	1.74	0.44	181-0B
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	-	-	-	0.73	0.69	0.60	0.20	1.73	0.52	059-1L
3554.00	com	bulk	-	-	-	0.79	0.73	0.64	0.19	2.13	0.68	182-0B
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	-	-	-	0.61	0.73	0.62	-	-	-	087-2L
3644.00	com	bulk	-	-	-	0.69	0.62	0.55	0.17	2.34	1.43	183-0B
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	-	-	-	0.82	0.74	0.66	0.29	1.92	0.85	104-1L
3704.00	com	bulk	-	-	-	0.77	0.75	0.65	-	1.20	-	185-0B
3725.00	com	bulk	0.91	2.64	0.10	0.74	0.64	0.57	0.18	1.55	0.47	186-0B
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	-	-	-	0.53	0.62	0.48	-	-	-	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	0.77	1.62	-	0.58	0.48	0.46	0.10	2.30	0.70	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	0.93	2.17	-	0.57	0.51	0.46	0.07	1.13	0.64	116-1L
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	-	1.11	-	0.56	0.48	0.49	0.36	1.12	0.88	118-2L
3782.00	com	bulk	-	1.94	-	0.60	0.58	0.60	0.09	2.36	0.62	187-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	0.95	2.67	0.03	0.69	0.57	0.63	0.13	3.07	0.70	121-3L
3896.00	com	bulk	-	0.82	-	0.69	0.66	0.61	3.29	3.99	0.60	188-0B
3938.00	com	bulk	0.82	2.15	0.05	0.66	0.59	0.59	4.40	3.30	0.58	189-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	T _{max} (°C)	Sample
1010.00	cut	bulk	0.26	18	0.03	4	-	011-0B
1170.00	cut	bulk	0.32	20	0.04	4+5	-	167-0B
1350.00	cut	bulk	0.40	20	0.05	4	-	168-0B
1580.00	cut	bulk	0.39	9	0.03	4	-	169-0B
1790.00	cut	bulk	0.40	19	0.03	4	-	170-0B
1950.00	cut	bulk	0.43	15	0.03	3+4	-	171-0B
2110.00	cut	bulk	0.45	19	0.04	4+5	-	172-0B
2280.00	cut	bulk	0.44	20	0.08	4	-	173-0B
2440.00	cut	bulk	0.45	20	0.07	4+5	-	174-0B
2570.00	cut	bulk	0.48	20	0.06	5	-	175-0B
2670.00	cut	bulk	0.43	12	0.05	4	-	176-0B
2770.00	cut	bulk	0.45	20	0.07	5	-	177-0B
2870.00	cut	bulk	0.46	20	0.06	0	-	178-0B
2970.00	cut	bulk	0.47	12	0.04	0	-	179-0B

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

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	T _{max} (°C)	Sample
3140.00	cut bulk	0.55	14	0.05	5	-	180-0B
3254.00	cut bulk	0.49	3	0.04	4+5	-	037-0B
3272.00	cut bulk	0.48	9	0.04	5	-	040-0B
3326.00	cut bulk	0.50	3	0.02	4+5	-	048-0B
3350.00	cut bulk	NDP	-	-	0	-	052-0B
3386.00	cut Sh/Clst: ol blk to lt ol gy	-	-	-	-	3? 5?	437 056-1L
3392.00	cut bulk	0.54	1	0.00	5	-	057-0B
3392.00	cut Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	-	-	-	-	5	437 057-1L
3404.00	cut Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	-	-	-	-	3 - 5 5.5	437 059-1L
3410.00	cut Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	-	-	-	-	NDP	438 060-1L
3416.00	cut S/Sst : lt brn gy to lt ol gy	-	-	-	-	NDP	436 061-2L
3428.00	cut bulk	0.49	7	0.06	0	-	063-0B
3503.00	cut bulk	NDP	-	-	4+5	-	074-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	T _{max} (°C)	Sample
3548.00	cut	Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy	-	-	-	-	5.5?	435 081-2L
3554.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy	-	-	-	-	5.5?	433 082-2L
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	-	-	-	-	NDP	435 087-2L
3602.00	cut	bulk	0.49	9	0.05	5	-	- 090-0B
3614.00	cut	Sh/Clst: ol gy to m gy to drk gy	-	-	-	-	NDP	434 093-2L
3656.00	cut	Sh/Clst: y gy to ol gy, m gy to m drk gy	-	-	-	-	5.5?	434 099-2L
3686.00	cut	bulk	0.48	20	0.04	5	-	- 104-0B
3686.00	cut	Sh/Clst: lt brn gy, y gy to ol gy, m gy to drk gy	-	-	-	-	5?	438 104-2L
3698.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy	-	-	-	-	NDP	437 106-1L
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	-	-	-	-	6?	447 114-2L
3758.00	cut	Sh/Clst: blk to brn blk	-	-	-	-	7	448 116-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	T _{max} (°C)	Sample
3764.00	cut	bulk	0.79	40	0.08	6+7	-	117-0B
3764.00	cut	Coal : blk to brn blk	-	-	-	-	NDP	443 117-1L
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	-	-	-	-	7 - 7.5?	448 118-2L
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	-	-	-	-	7 - 7.5?	448 121-3L
3818.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	-	-	-	-	7 - 7.5?	448 126-1L
3830.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	-	-	-	-	6.5 - 7	442 128-1L
3866.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	-	-	-	-	NDP	444 134-1L
3878.00	cut	bulk	0.81	11	0.08	5+6+7	-	136-0B
3890.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	-	-	-	-	7?	446 138-1L
3920.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	-	-	-	-	7?	442 143-3L
3926.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	-	-	-	-	6.5? 7 - 7.5?	441 144-3L

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

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	T _{max} (°C)	Sample
3932.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	-	-	-	-	7	443 145-3L
3956.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	-	-	-	-	7 - 7.5	445 149-5L
3980.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	-	-	-	-	7.5	448 153-6L
3986.00	cut	bulk	0.77	33	0.05	0	-	- 154-0B

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

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m o r L t	L i p D e o l	S p / P o l	C u t P i c l	R e s i n	A l g a l	D i n o f l	A c r i t L	I N E R T %	F u s i n	S e m F u s t	I n t e r n	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 n	A m o r t V	B i t V	Sample	
3386.00	cut	Sh/Clst: ol blk to lt ol gy	20	*	*			*	*			10	*	*					70		*	*				056-1L
3392.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	20	*	*			*	*			10	*	*					70		*	*				057-1L
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	40	*	*	**		*	*			10		*					50		**	*				059-1L
3410.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	30	*	**	*		*				20	*	**					50		**	*				060-1L
3416.00	cut	S/Sst : lt brn gy to lt ol gy	30	*	*							20	*	*					50	*	*	*				061-2L
3548.00	cut	Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy	30	*	*							20	*	*					50	*	*	*				081-2L
3554.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy	35	*	*	*		*				10		*					55		*	*				082-2L
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	20	*	*							10		*					70		*	*				087-2L
3614.00	cut	Sh/Clst: ol gy to m gy to drk gy	20	*	*			*				20		*					60		*					093-2L
3656.00	cut	Sh/Clst: y gy to ol gy, m gy to m drk gy	35	*	**	*		*				20	*	**					45		**	*				099-2L
3686.00	cut	Sh/Clst: lt brn gy, y gy to ol gy, m gy to drk gy	30	*					*			30	*	*					40		*	*				104-2L
3698.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy	20	*								20	*	*					60		*	*				106-1L
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	40	*	*			*				20		*					40		*	*	*			114-2L

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

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	D	I	S	I	M	S	V	C	V	A	Sample							
			I	m	i	p	u	R	A	i	A	B	N	F	e	n	i		c	B	I	T	o	i	m
			P	r	D	P	i	s	g	o	r	t	E	u	F	D	r	e	t	R	l	l	D	r	t
			T	r	D	P	i	s	g	o	r	t	E	u	F	D	r	e	t	R	l	l	D	r	t
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n	o	I	%	n	n	t	V	V
3758.00	cut	Sh/Clst: blk to brn blk	70	*	*	**		**					5	*	*				25		*	*			116-1L
3764.00	cut	Coal : blk to brn blk	5		*	*							20	*					75	*					117-1L
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	60	*	*	**		* ** *					10	*	*				30	*	*	**			118-2L
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	60	*	*	**		* ** *					10	*	*				30	*	*	**			121-3L
3818.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	60	*	*	**		* ** *					10	*	*				30	*	*	**			126-1L
3830.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	30	*	**	**		*					30	*	*				40		*	*			128-1L
3866.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	20		*	*							40	*	*				40	*	*				134-1L
3890.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	25		*	*		*					30	*	*				45		*	*			138-1L
3920.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	25		*	*		*					30	*	*				45		*	*			143-3L
3926.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	20		*	*							30	*	*				50	*	*				144-3L
3932.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	25		*	*							25	*	*				50		*				145-3L
3956.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	10		*	*							10		*				80		*				149-5L
3980.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	30		*	*		*					35	*	**	*			35	*	**	*			153-6L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1880.00	cut	Sh/Clst: brn gy to brn blk	6.04	12.24	51.48	30.24	5.76	158-1L
2070.00	cut	Sh/Clst: brn gy, brn blk, ol gy	5.94	13.26	55.98	24.82	3.41	159-1L
3314.00	cut	Sh/Clst: ol blk to lt ol gy	4.82	31.33	56.70	7.14	0.43	046-1L
3350.00	cut	Sh/Clst: ol blk to lt ol gy	5.69	31.50	54.23	8.59	0.71	052-1L
3386.00	cut	Sh/Clst: ol blk to lt ol gy	5.79	29.48	55.79	8.94	1.14	056-1L
3392.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	5.63	28.44	57.75	8.17	1.06	057-1L
3404.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	3.68	13.08	48.81	34.44	3.20	059-1L
3410.00	cut	Sh/Clst: blk, ol gy to ol blk, lt ol gy, m drk gy	3.91	21.98	54.32	19.79	0.99	060-1L
3416.00	cut	S/Sst : lt brn gy to lt ol gy	4.13	23.14	52.80	19.93	0.50	061-2L
3422.00	cut	S/Sst : lt brn gy to lt ol gy	2.47	22.26	49.83	25.45	0.20	062-2L
3446.00	cut	S/Sst : lt brn gy to lt ol gy, m drk gy	4.99	29.45	53.99	11.58	0.26	066-2L
3464.00	cut	Sh/Clst: ol blk to lt ol gy, m drk gy	5.74	26.59	58.83	8.85	0.72	069-1L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3470.00	cut	S/Sst : lt brn gy to lt ol gy	5.55	33.47	51.98	9.01	0.37	070-2L
3488.00	cut	S/Sst : lt brn gy to lt ol gy	5.18	31.93	53.02	9.87	0.37	072-2L
3548.00	cut	Sh/Clst: ol blk to lt ol gy, drk gy to m drk gy	5.70	29.88	53.54	10.89	1.22	081-2L
3560.00	cut	S/Sst : y gy to lt ol gy	5.81	32.05	51.91	10.23	0.33	083-1L
3584.00	cut	Sh/Clst: gy blk, brn gy, ol gy to lt ol gy, m drk gy	5.40	29.29	54.25	11.06	1.17	087-2L
3614.00	cut	Sh/Clst: ol gy to m gy to drk gy	5.03	29.52	54.54	10.90	1.12	093-2L
3620.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	5.28	27.22	51.83	15.67	0.72	092-1L
3632.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	4.20	17.54	48.12	30.14	1.59	095-1L
3632.00	cut	Sh/Clst: ol gy to m gy to drk gy	5.03	26.86	55.75	12.37	1.14	095-2L
3638.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	3.47	17.83	40.94	37.76	3.05	096-1L
3644.00	cut	S/Sst : brn gy, ol gy to lt ol gy, m drk gy	4.54	22.22	52.44	20.81	1.70	097-1L
3650.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	6.45	34.12	51.70	7.73	0.48	098-1L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3656.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	3.15	15.46	55.22	26.18	0.75	099-1L
3656.00	cut	Sh/Clst: y gy to ol gy, m gy to m drk gy	3.98	20.02	52.86	23.14	1.71	099-2L
3662.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	4.24	22.00	44.66	29.09	0.91	100-1L
3674.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	3.19	18.05	43.02	35.74	1.61	102-1L
3680.00	cut	S/Sst : lt brn gy to lt ol gy, m gy to m drk gy	3.45	18.56	42.02	35.97	0.97	103-1L
3686.00	cut	S/Sst : y gy to ol gy, m gy to m drk gy	3.28	17.56	38.52	40.64	2.09	104-1L
3686.00	cut	Sh/Clst: lt brn gy, y gy to ol gy, m gy to drk gy	4.13	15.75	51.43	28.69	1.35	104-2L
3698.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy	3.43	17.02	42.37	37.18	1.31	106-1L
3704.00	cut	Sltst : brn gy to y gy, ol gy, m gy to drk gy	3.41	16.67	40.35	39.57	1.00	107-1L
3716.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	4.47	22.67	52.86	20.01	1.27	109-1L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3722.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	4.88	13.72	48.65	32.75	2.06	110-1L
3725.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	3.58	20.08	51.29	25.05	1.24	111-1L
3740.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	3.78	20.32	48.71	27.20	1.09	113-1L
3746.00	cut	Sh/Clst: blk to lt ol gy, m gy to drk gy	2.97	15.91	29.02	42.10	8.87	114-2L
3752.00	cut	Sh/Clst: blk to brn blk	1.84	11.76	33.86	52.53	180.65	115-1L
3758.00	cut	Sh/Clst: blk to brn blk	3.06	14.60	34.22	48.12	93.98	116-1L
3764.00	cut	Coal : blk to brn blk	10.19	13.41	29.75	46.66	72.11	117-1L
3770.00	cut	Sh/Clst: brn blk, ol gy, drk gy	3.76	16.07	34.77	45.41	43.55	118-2L
3782.00	cut	Sh/Clst: brn blk, ol gy to lt ol gy	9.46	28.87	48.81	12.85	3.74	120-3L
3789.00	cut	Sh/Clst: brn blk, ol gy to ol blk, drk gy	3.07	17.28	41.61	38.04	13.17	121-3L
3794.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy to ol blk	5.24	16.19	46.35	32.23	2.46	122-3L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3818.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	2.51	8.34	39.76	49.39	15.68	126-1L
3830.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	3.46	10.96	38.59	46.99	6.54	128-1L
3836.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	3.27	19.98	47.25	29.51	1.24	129-1L
3836.00	cut	Coal : blk	7.58	12.26	28.31	51.85	101.66	129-3L
3842.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	5.55	16.31	39.18	38.95	5.57	130-1L
3866.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	4.65	14.97	37.15	43.23	9.18	134-1L
3872.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, m drk gy	3.11	17.06	45.81	34.02	2.08	135-1L
3884.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	3.78	21.79	49.29	25.14	1.12	137-1L
3890.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	2.79	13.35	36.45	47.42	9.38	138-1L
3896.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	2.99	13.68	41.86	41.48	3.28	139-1L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3902.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	5.95	11.34	36.77	45.94	9.24	140-3L
3920.00	cut	Sh/Clst: gy blk, brn gy, ol gy, m drk gy	3.65	15.67	42.18	38.50	7.52	143-3L
3926.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	3.40	15.77	39.43	41.41	4.63	144-3L
3932.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	3.18	13.28	39.94	43.60	6.45	145-3L
3938.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	5.40	12.65	38.56	43.39	5.74	146-3L
3944.00	cut	Sh/Clst: gy blk, brn gy, ol gy, lt brn gy, m drk gy	3.18	14.94	40.12	41.76	4.31	147-3L
3962.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	4.51	15.77	32.69	47.03	12.86	150-6L
3968.00	cut	Coal : blk	9.22	14.00	30.54	46.24	89.84	151-2L
3980.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	2.69	9.66	29.01	58.64	19.78	153-6L
3986.00	cut	Sh/Clst: gy blk, brn gy to brn blk, ol gy, drk gy	4.35	8.42	32.84	54.38	34.36	154-6L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3992.00	cut	Sh/Clst: brn gy, ol gy, m gy to m drk gy	2.60	13.72	40.56	43.13	6.29	155-6L

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

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%		
3404.00	Sh/Clst	2.69	0.73	0.25	0.59	0.37	0.09	0.04	0.06	0.03	0.12	0.79	0.36	0.24	57.78	059-1		
3554.00	Sh/Clst	4.71	0.82	0.25	0.66	0.40	0.07	0.05	0.07	0.05	0.22	0.82	0.38	0.19	56.10	182-0		
3644.00	S/Sst	2.00	0.67	0.33	0.64	0.39	0.36	0.18	0.29	0.15	1.73	0.27	0.69	6.28	51.72	183-0		
3704.00	Sltst	2.39	0.70	0.19	0.48	0.32	0.12	0.05	0.10	0.05	0.15	0.89	0.32	0.11	57.14	185-0		
3746.00	Sh/Clst	3.22	0.76	0.24	0.50	0.33	0.15	0.04	0.09	0.04	0.16	0.85	0.33	0.17	59.32	114-2		
3758.00	Sh/Clst	4.88	0.83	0.28	0.81	0.45	0.15	0.07	0.08	0.06	0.01	0.87	0.44	0.12	51.43	116-1		
3782.00	Sh/Clst	4.11	0.80	0.27	0.75	0.43	0.16	0.08	0.11	0.07	0.03	0.84	0.41	0.16	60.53	187-0		

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

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>
3404.00	Sh/Clst	0.64	45.99	53.24	1.42	0.55	0.27	0.21	059-1
3554.00	Sh/Clst	0.60	45.05	53.33	1.52	0.56	0.33	0.25	182-0
3644.00	S/Sst	0.72	50.00	69.70	1.31	0.70	0.54	0.45	183-0
3704.00	Sltst	0.75	53.85	67.77	1.07	0.66	0.53	0.43	185-0
3746.00	Sh/Clst	0.76	52.27	67.65	1.25	0.67	0.42	0.31	114-2
3758.00	Sh/Clst	0.72	32.10	57.14	0.85	0.68	0.21	0.15	116-1
3782.00	Sh/Clst	0.75	47.17	65.81	1.02	0.67	0.31	0.20	187-0

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 2/2-1

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Sample
3404.00	Sh/Clst	0.56	0.73	059-1
3554.00	Sh/Clst	0.59	0.65	182-0
3644.00	S/Sst	0.53	0.77	183-0
3704.00	Slst	0.54	0.63	185-0
3746.00	Sh/Clst	0.53	0.67	114-2
3758.00	Sh/Clst	0.44	0.66	116-1
3782.00	Sh/Clst	0.35	0.83	187-0

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

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

Tab. 12: Variation in Triaromatic Sterane Distribution for Well NOCS 2/2-1

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
3404.00	Sh/Clst	0.63	0.50	0.25	0.32	0.34	059-1
3554.00	Sh/Clst	0.56	0.40	0.19	0.26	0.28	182-0
3644.00	S/Sst	0.76	0.68	0.47	0.49	0.62	183-0
3704.00	Slst	0.81	0.71	0.53	0.57	0.68	185-0
3746.00	Sh/Clst	0.75	0.64	0.43	0.47	0.58	114-2
3758.00	Sh/Clst	0.73	0.62	0.50	0.49	0.73	116-1
3782.00	Sh/Clst	0.65	0.55	0.38	0.39	0.56	187-0

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 2/2-1

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>
3404.00	Sh/Clst	0.47	0.33	0.33	0.28	059-1
3554.00	Sh/Clst	0.43	0.32	0.27	0.23	182-0
3644.00	S/Sst	0.61	0.50	0.47	0.39	183-0
3704.00	Sltst	0.70	0.57	0.52	0.41	185-0
3746.00	Sh/Clst	0.58	0.51	0.42	0.34	114-2
3758.00	Sh/Clst	0.27	0.21	0.17	0.07	116-1
3782.00	Sh/Clst	0.41	0.28	0.28	0.13	187-0

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