

5.3 Formation Pressure Measurements

A Dresser Atlas Formation Multitester (FMT) was used to measure formation pressures.

7 runs with the FMT tool were made during logging run 3 (Runs 3A, 3D, 3E, 3F, 3G, 3H and 3I). Runs 3A and 3D were made with a HP crystal gauge, the others with a strain gauge. The FMT tool failed in run 3B and 3C, and no pressures were measured.

3 segregated samples were recovered for fluid analysis, two of these from the oil zone.

5.4 Testing

One production test was performed in the oil bearing section of the Brent Group Equ.

The following interval was perforated:
2276.7 - 2279.7 m RKB.

The test objectives were:

- To obtain the formation productivity
- To sample reservoir fluid
- To investigate the formation characteristics and extension
- To measure reservoir pressure and temperature

The zone was perforated underbalanced and 0.8 m³ of cushion fluid was immediately back-surfed.

A seven minutes long initial flow was followed by a 2.5 hours long build-up period. A total of 3.6 m³ of cushion fluid was produced at an average rate of 743 m³/day.

The main flow period had a duration of 22 hours. The average production rate was 298 Sm³/day with a wellhead pressure of 96 bar. The gas-oil ratio was 130 Sm³/Sm³ at separator conditions of 43° C and 19.5 bar.

The dead oil density was 725 kg/m³ and the specific gas gravity was 0.88 (air=1). Seven monophasic samples were taken at the wellhead and eight sets of samples for recombination were collected at the separator. The flow period was followed by a 24 hours build-up period.

Sand production was not observed during the test, but 0.6 - 0.7 Sm³ of water was produced.

PRODUCTION TEST DATA



Event	Time (hours:min)	Choke size (mm)	Flow rate (Sm ³ /day)	Bottom hole* Pressure (bar)	Well-head Pressure (bar)	Remarks
28.1.86						
Initial flow	23:24	17.5	743**	217	24	Cushion flow
Main flow	03:30	14.3		214	83	
	04:00	12.7		216	88	
	24:00	7.9	298	222	96	GOR 130 Sm ³ /Sm ³ ***

* Measured at 2243.5 m RKB

** Average rate during the initial flow period

*** At separator conditions of 43 deg C and 19.5 bar

The maximum recorded bottom hole temperature was 90 °C

Table 5.6 Main results production test

Dato 6/86	Forf. BeH	Godt R Ny
Tegn av	Ref EPP	25/6-1

Titel

PVT ANALYSIS



SAMPLING DEPTH (MRKB)	:	2279.8	2282.3
BUBBLE POINT PRESSURE AT 86.6°C (BAR)	:	97	
GAS OIL RATIO (SM ³ /SM ³) 1)	:	276.5	239.2
B ₀ AT BUBBLE POINT (M ³ /SM ³)	:	2.22	
DENSITY OF STOCK TANK LIQUID (KG/M ³)	:	740.4	739.3
MOLECULAR WEIGHT STOCK TANK LIQUID	:	116	110
CALCULATED MOLECULAR WEIGHT C ₇₊	:	142	137
CALCULATED DENSITY C ₇₊ (KG/M ³)	:	789	791

1) FROM SINGEL STAGE FLASH TO STANDARD CONDITIONS

TABLE 5.8 ANALYSIS OF OIL FROM FMT-CHAMBERS

Dato	6.86	For.	IN	Godkj	JMH
Tegn.av			EPF 25/6-1		

Titel

PVT ANALYSIS



ANALYSIS OF FLUID FROM PRODUCTION TEST

PRODUCING ZONE (MRKB)	: 2276.7 - 2279.7
RESERVOIR TEMPERATURE (°C)	: 90
RESERVOIR PRESSURE (BAR)	: 230
BUBBLE POINT PRESSURE (BAR)	: 106.9
OIL FORMATION VOLUME FACTOR (RM ³ /SM ³) ¹⁾	: 1.92
GAS OIL RATIO (SM ³ /SM ³) ¹⁾	: 232.3
STOCK TANK OIL DENSITY (KG/M ³) ²⁾	: 729
RESERVOIR FLUID DENSITY (KG/M ³)	: 537
RESERVOIR FLUID VISCOSITY (MPA S)	: 0.14

SUBSCRIPTS:

1). Corrected for a three stage flash where the separator conditions were:

Stage no.	Sep. pressure (bar)	Sep. temperature (°C)
1.	70	70
2.	30	30
3.	1	15

2). Stock tank oil density after a three stage flash.

Table 5.10 Analysis of fluid from production test

Dato	6.86	Forf.	IN	Godkj.	JMH
Tegn.av		Ref.	EPF 25/6-1		

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf / Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
851216		.0	1.03										WATER BASED
851217		.0	1.03										SPUD MUD
851218	36	185.0	1.04										SPUD MUD
851219	36	260.0	1.04										SPUD MUD
851220	36	260.0	1.15										SPUD MUD
851221	17-1/2	627.0	1.16	7	43	25/28	9.6	0.1/0.4	240	7000		7.5	GEL MUD
851222	17-1/2	827.0	1.17	6	39	25/27	9.0	0.5/0.2	300	8500	0.2	9.0	GEL MUD
851223	17-1/2	1028.0	1.17	6	43	23/35	9.2	0.1/0.1	280	10000	0.5	9.5	GEL MUD
851224	26	1028.0	1.17	5	35	25/36	9.2	0.1/0.1	280	10000	0.5	9.5	GEL MUD
851225	26	1028.0	1.19	6	38	29/31	9.1	0.1/0.1	320	12000	0.8	9.2	GEL MUD
851226	17-1/2	1028.0	1.19	6	38	29/31	9.1	0.1/0.1	320	12000	0.1	9.1	GEL MUD
851227	26	1028.0	1.03										GEL MUD
851228	17-1/2	1028.0	1.10	15	20	3/4	9.5	0.1/0.2	2400	20000			GYP/POLYMER MUD
851229	17-1/2	1200.0	1.10	14	16	2/3	9.5	0.1/0.4	3120	19000	0.2	6.0	GYP/POLYMER MUD
851230	17-1/2	1434.0	1.15	13	17	2/4	9.4	0.1/0.3	2400	19000	0.2	7.0	GYP/POLYMER MUD
851231	17-1/2	1653.0	1.25	15	18	5/10	9.2	0.1/0.3	2560	24000	0.2	9.7	GYP/POLYMER MUD
860101	17-1/2	1820.0	1.25	13	20	11/17	9.2	0.1/0.1	2400	22000	0.2	10.5	GYP/POLYMER MUD
860102	17-1/2	2090.0	1.25	12	20	14/18	9.6	0.1/1.0	2120	22000	0.2	11.0	GYP/POLYMER MUD
860103	17-1/2	2154.0	1.30	13	20	16/22	9.5	0.1/1.3	2320	22000	0.2	13.0	GYP/POLYMER MUD
860104	17-1/2	2195.0	1.30	14	20	20/29	10.4	0.1/1.8	2160	22000	0.2	13.0	GYP/POLYMER MUD
860105	17-1/2	2195.0	1.31	12	15	13/22	9.8	0.1/1.5	2160	22000	0.2	13.0	GYP/POLYMER MUD
860106	17-1/2	2195.0	1.33	13	15	12/25	9.9	0.1/1.5	2200	22000	0.2	14.0	GYP/POLYMER MUD
860107	12-1/4	2195.0	1.33	12	15	16/29	9.5	0.1/1.6	2160	22000	0.2	14.0	GYP/POLYMER MUD
860108	12-1/4	2225.0	1.33	14	21	24/32	10.8	0.2/1.6	1800	22000	0.2	15.0	GEL MUD
860109	12-1/4	2289.0	1.25	14	15	3/13	9.8	0.1/1.0	360	8000	0.2	10.0	GEL MUD
860110	12-1/4	2289.0	1.25	17	16	4/15	10.1	0.1/1.0	360	8000	0.2	10.0	GEL MUD
860111	12-1/4	2289.0	1.25	16	15	3/18	9.8	0.1/0.8	440	8000	0.2	10.0	GEL MUD
860112	12-1/4	2313.0	1.25	17	16	4/20	9.7	0.2/0.8	540	10000	0.2	9.0	GEL MUD
860113	12-1/4	2438.0	1.25	17	16	3/24	10.3	0.2/0.6	420	10000	0.2	10.0	GEL MUD
860114	12-1/4	2493.0	1.25	17	15	4/30	10.4	0.2/0.7	320	10000	0.2	10.0	GEL MUD

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf / Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
860115	12-1/4	2561.0	1.25	18	15	2/20	10.4	0.2/0.8	360	10000	0.2	11.0	GEL MUD
860116	12-1/4	2561.0	1.25	18	15	2/19	10.0	0.2/0.7	360	10000	0.2	11.0	GEL MUD
860117	12-1/4	2561.0	1.10	13	12	2/18	10.4	0.2/0.7	160	6000	0.1	6.0	GEL MUD
860118	12-1/4	2561.0	1.10	16	14	2/18	10.0	0.1/0.5	480	9000	0.1	6.0	GEL MUD
860119	12-1/4	2590.0	1.11	12	14	4/28	10.4	0.5/0.5	260	10000	0.1	6.0	GEL MUD
860120	12-1/4	2745.0	1.11	12	14	3/17	10.5	0.1/0.5	140	8000	0.1	6.0	GEL MUD
860121	12-1/4	2852.0	1.10	12	14	3/34	10.2	0.1/0.5	160	9500	0.1	6.0	GEL MUD
860122	12-1/4	2881.0	1.10	12	14	5/26	10.5	0.1/0.5	200	8000	0.1	6.0	GEL MUD
860123	12-1/4	2881.0	1.10	11	12	3/18	10.4	0.1/0.5	120	9000	0.1	6.0	GEL MUD
860124	12-1/4	2360.0	1.10	11	43	45/49	11.5	0.4/0.9	240	9000	0.1	6.0	GEL MUD
860125	12-1/4	2360.0	1.10	12	13	12/33	11.5	0.4/1.0	180	9000	0.1	6.0	GEL MUD
860126	12-1/4	2325.0	1.10	9	9	6/23	11.5	0.4/0.9	200	9000	0.1	6.0	GEL MUD
860127	12-1/4	2325.0	1.10	11	10	6/25	11.3	0.4/0.9	200	9000	0.1	6.0	GEL MUD
860128	12-1/4	2325.0	1.10	10	10	6/24	11.3	0.3/0.9	200	9000	0.1	6.0	GEL MUD
860129	12-1/4	2325.0	1.10	11	10	6/25	11.3	0.4/0.9	200	9000	0.1	6.0	GEL MUD
860130	12-1/4	2325.0	1.10	10	10	6/25	11.3	0.4/0.9	200	9000	0.1	6.0	GEL MUD
860131	12-1/4	2270.0	1.10	9	9	5/21	11.2	0.3/0.9	200	9000	0.1	6.0	GEL MUD
860201	12-1/4	190.0	1.10	9	9	5/21	11.2	0.3/0.9	200	9000	0.1	6.0	GEL MUD
860202		.0	1.03										GEL MUD
860203		.0	1.03										WATER BASED

SAGA PETROLEUM A.S.

6.2.2 MUD MATERIALS USED

Well no: 25/6-1

Materials	Unit	36 in hole	26 in hole	17-1/2 hole	12-1/4 hole	8-1/2 hole	Total
BARITE	M/T	0	180	274	224	0	678
BICARBONATE	50 KG	0	1	4	11	0	16
CAUSTIC SODA	25 KG	3	25	235	116	0	379
DRISPAC REG	50 LB	0	0	113	26	0	139
DRISPAC S/L	50 LB	0	0	70	125	0	195
GYP SUM	50 KG	0	0	750	0	0	750
LIME	40 KG	3	0	0	0	0	3
MILBIO	55 GA	0	0	8	0	0	8
MILPOL 302	25 KG	0	0	226	0	0	226
PERMALOSE	25 KG	0	0	280	0	0	280
PRO-DEFOAMER	25 L	0	0	5	4	0	9
SOLTEX	50 LB	0	0	40	0	0	40
W.O.21	25 KG	0	2	2	2	0	6
BENTONITE	M/T	17	69	5	46	0	137
BENTONITE	50 KG	0	0	44	0	0	44
PRO-THIN	25 KG	0	0	30	211	0	241

Geochemical Analysis Report

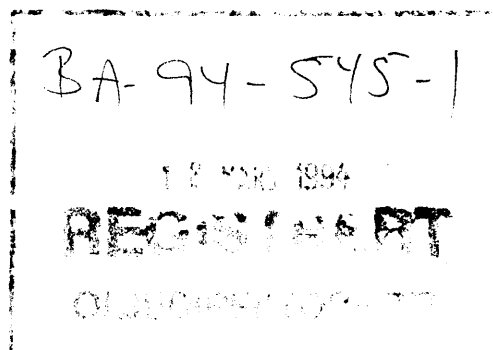
Well NOCS 25/6-1

PART 1

Authors: Ian L. Ferriday
Malvin BJORØY

Geolab Nor A/S
Hornebergveien 5
7038 Trondheim
Norway

Date : 10.10.91



INTRODUCTION

Samples were collected between 1020 m and 2881 m from the Norwegian Petroleum Directorate in Stavanger. A total of 130 samples was collected, washed and described. The analysed section of the well is from 1120 m to 2848 m. A careful selection of suitable samples was made for screening analysis (i.e. TOC and Rock-Eval analysis). Forty samples were selected for these analyses, and from the data obtained samples were chosen for follow-up analysis. These were:

Thermal extraction - pyrolysis - gas chromatography	17 samples
Extraction, MPLC fractionation, saturated and aromatic hydrocarbon gas chromatography	9 samples
Vitrinite reflectance microscopy	15 samples
Visual kerogen analysis	10 samples
Isotope analysis of C ₁₅ + fractions	9 samples
Gas chromatography - mass spectrometry	9 samples

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%	Lithology description	

1020.00			0008
	85	Sh/Clst: brn gy to dsk brn gy, slt	
	15	S/Sst : w, f, crs, l	
			0008-1L
			0008-2L
1060.00			0009
	50	Sh/Clst: brn gy to dsk brn gy, slt	
	50	S/Sst : w, f, l	
			0009-1L
			0009-2L
1090.00			0010
	50	Sh/Clst: brn gy to dsk brn gy, slt	
	50	S/Sst : w, f, l	
			0010-1L
			0010-2L
1120.00			0011
	60	S/Sst : w, f, l	
	40	Sh/Clst: brn gy to dsk brn gy, slt	
		tr Cont : prp	
			0011-2L
			0011-1L
			0011-3L
1150.00			0012
	60	Sh/Clst: brn gy to drk y brn, slt	
	40	S/Sst : w, f, l	
		tr Cont : prp	
		tr Ca : w, fos	
			0012-1L
			0012-2L
			0012-3L
			0012-4L
1180.00			0013
	50	Sh/Clst: brn gy to drk y brn, slt	
	45	S/Sst : w, f, l	
	5	Ca : w, fos	
		tr Cont : prp	
			0013-1L
			0013-2L
			0013-4L
			0013-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int	Cvd	TOC%	%	Lithology description
1210.00				0014
			70	Sh/Clst: brn gy to drk y brn, slt
			30	Kaolin : w
			tr	S/Sst : w, f, l
1240.00				0015
			100	Sh/Clst: brn gy to drk y brn, slt
			tr	Kaolin : w
			tr	Cont : prp, fib
1270.00				0016
			100	Sh/Clst: brn gy to drk y brn, slt
			tr	Kaolin : w
			tr	S/Sst : lt gy w, f, kln
1300.00				0017
			100	Sh/Clst: drk y brn, slt
			tr	Ca : w, fos
			tr	S/Sst : lt gy w, f, l
1320.00				0018
			100	Sh/Clst: drk y brn, slt
			tr	Ca : w, fos
			tr	S/Sst : lt gy w, f, l
1350.00				0019
			100	Sh/Clst: drk y brn, slt, pyr
			tr	Kaolin : w

Table 1 : Lithology description for well N0CS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC% % Lithology description		
1440.00	100 Sh/Clst: drk y brn, slt		0020 0020-1L
1470.00	100 Sh/Clst: drk y brn, slt, pyr tr Ca : w, fos		0021 0021-1L 0021-2L
1500.00	100 Sh/Clst: m y brn to drk y brn, slt tr Ca : w, fos		0022 0022-1L 0022-2L
1530.00	100 Sh/Clst: m y brn to lt ol gy, slt tr Ca : w, fos tr Marl : or gy		0023 0023-1L 0023-2L 0023-3L
1560.00	100 Sh/Clst: lt ol gy, fis tr Ca : w, fos		0024 0024-1L 0024-2L
1600.00	100 Sh/Clst: lt ol gy to drk y brn, fis tr Ca : w, fos		0025 0025-1L 0025-2L
1630.00	100 Sh/Clst: lt ol gy to drk y brn, fis tr Ca : w, fos		0026 0026-1L 0026-2L

Table 1 : Lithology description for well N0CS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		
Lithology description			
1660.00			0027
	100	Sh/Clst: lt ol gy to drk y brn, fis	0027-1L
1690.00			0028
	100	Sh/Clst: lt ol gy to drk y brn, fis	0028-1L
1720.00			0029
	100	Sh/Clst: lt ol gy, fis	0029-1L
		tr S/Sst : lt gy w, crs, l	0029-2L
1750.00			0030
	100	Sh/Clst: lt ol gy to drk y brn, fis, slt	0030-1L
		tr S/Sst : lt gy w, crs, l	0030-2L
1780.00			0031
	100	Sh/Clst: lt ol gy, fis	0031-1L
1820.00			0032
	100	Sh/Clst: lt ol gy, fis	0032-1L
1850.00			0033
	100	Sh/Clst: lt ol gy, fis	0033-1L

Table 1 : Lithology description for well N0CS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%	Lithology description	

1880.00			0034
	100	Sh/Clst: lt ol gy to m gy to lt brn gy, fis	0034-1L
		tr Sh/Clst: pl brn	0034-2L
		tr Ca : gy w	0034-3L
1910.00			0035
	100	Sh/Clst: lt ol gy to m gy to lt brn gy, fis	0035-1L
		tr Sh/Clst: pl brn	0035-2L
1940.00			0036
	95	Sh/Clst: lt ol gy to m gy to lt brn gy, fis	0036-1L
	5	Sh/Clst: pl brn	0036-2L
1970.00			0037
	100	Sh/Clst: lt ol gy to m gy to lt brn gy, fis	0037-1L
2040.00			0038
	95	Sh/Clst: lt ol gy to m gy to lt brn gy, fis	0038-1L
	5	Sh/Clst: pl brn	0038-2L
		tr Sh/Clst: gy gn	0038-3L
2070.00			0039
	100	Sh/Clst: lt ol gy to m gy to lt brn gy, fis	0039-1L
		tr Sh/Clst: pl brn	0039-2L
		tr Sh/Clst: gy gn to gn gy	0039-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2100.00				0040
		95 Sh/Clst: lt ol gy to m gy to lt brn gy, fis		0040-1L
		5 Sh/Clst: pl brn		0040-2L
		tr Sh/Clst: gy gn to gn gy		0040-3L
2130.00				0041
		100 Sh/Clst: lt ol gy to brn gy to lt brn gy to gn gy to m gy, fis		0041-1L
2160.00				0042
		60 Sh/Clst: gn gy to lt brn gy to brn gy to m gy		0042-1L
		40 S/Sst : lt gy w, crs, l		0042-2L
2170.00				0043
		70 Sh/Clst: gn gy to lt brn gy to brn gy to m gy		0043-1L
		30 S/Sst : lt gy w, crs, l		0043-2L
		tr Ca : w		0043-3L
2180.00				0044
		95 Sh/Clst: gn gy to lt brn gy to brn gy to m gy		0044-1L
		5 Ca : w		0044-3L
		tr S/Sst : lt gy w, crs, l		0044-2L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%	%	Lithology description
2190.00			0045
	100	Sh/Clst:	gn gy to lt brn gy to brn gy to m gy to pl brn
		tr S/Sst	: lt gy w, crs, l
		tr Ca	: w
			0045-1L
			0045-2L
			0045-3L
2200.00			0046
	100	Sh/Clst:	gn gy to lt brn gy to brn gy to m gy to pl brn
		tr S/Sst	: lt gy w, crs, l
		tr Ca	: w to lt or gy
			0046-1L
			0046-2L
			0046-3L
2210.00			0047
	100	Sh/Clst:	lt brn gy to brn gy to m gy to pl brn, pyr, slt
		tr S/Sst	: lt gy w, crs, l
		tr Cont	: prp
			0047-1L
			0047-2L
			0047-3L
2220.00			0048
	80	Sh/Clst:	lt brn gy to brn gy to m gy to pl brn, pyr, slt
	20	Cont	: cem, prp
			0048-1L
			0048-2L
2230.00			0049
	40	Ca	: w to lt or pi
	30	Sh/Clst:	m brn, fis
	30	Sh/Clst:	lt gn gy to lt bl gy to brn gy to drk gy, calc
			0049-2L
			0049-1L
			0049-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2236.00				0050
		55 Ca	: w to lt or pi	0050-2L
		25 Sh/Clst:	lt gn gy to lt bl gy to brn gy to drk gy, calc	0050-3L
		20 Sh/Clst:	m brn, fis	0050-1L
		tr Sltst	: m gy	0050-4L
2242.00				0051
		75 Sh/Clst:	gy blk, fis	0051-1L
		10 Ca	: w to lt or pi	0051-2L
		5 Sh/Clst:	m brn, fis	0051-3L
		5 Sh/Clst:	gn gy to lt gy to m gy	0051-4L
		5 S/Sst	: lt gy w, f, l	0051-5L
2246.00				0052
		75 S/Sst	: lt gy w, crs, l	0052-1L
		15 Sh/Clst:	lt gy to m gy	0052-2L
		10 Sh/Clst:	drk brn to brn blk, carb	0052-3L
2275.00				0053
		95 Sh/Clst:	drk gy to gy blk, fis	0053-1L
		5 Ca	: w to lt or pi	0053-3L
		tr Sh/Clst:	m brn	0053-2L
2281.00				0054
		60 Sh/Clst:	drk gy to gy blk, fis	0054-1L
		25 Sh/Clst:	pl ol to gn gy, fis	0054-2L
		10 Sh/Clst:	or gy	0054-3L
		5 S/Sst	: lt gy w, f, l	0054-4L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2289.00	ccp			0003
		100 Sltst	: lt gy to lt or gy, s, l	0003-1L
2290.00				0055
		90 Sh/Clst:	drk gy to gy blk, fis	0055-1L
		5 S/Sst	: lt gy w to lt or gy, f, l, kln	0055-3L
		5 Sh/Clst:	m brn	0055-4L
		tr Sh/Clst:	pl ol to gn gy, fis	0055-2L
		tr Cont	: prp	0055-5L
2294.20	ccp			0004
		100 S/Sst	: lt gy to lt or gy, f, crs, l	0004-1L
2299.00	ccp			0005
		100 Sh/Clst:	brn gy to drk brn, mic, wx, lam	0005-1L
2304.00	ccp			0006
		100 Sh/Clst:	lt gy to m gy to brn gy, slt, mic	0006-1L
2309.70	ccp			0007
		100 Sh/Clst:	m gy	0007-1L
2314.00				0056
		80 Sh/Clst:	m gy to drk gy to brn blk	0056-1L
		15 S/Sst	: lt gy w to lt or gy, f, crs, l, kln	0056-2L
		5 Ca	: w to lt or pi	0056-4L
		tr Sh/Clst:	m brn	0056-3L
		tr Cont	: prp	0056-5L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2323.00				0057
		75 Sh/Clst: m gy to drk gy, mic, slt		0057-1L
		15 Marl : or gy		0057-2L
		10 S/Sst : gy w to lt or gy, f, kln		0057-3L
2329.00				0058
		70 Sh/Clst: m gy to drk gy, mic, slt		0058-1L
		20 Marl : or gy		0058-2L
		10 S/Sst : gy w to lt or gy, f, kln		0058-3L
2332.00				0059
		75 Sh/Clst: m gy to drk gy, mic, slt		0059-1L
		20 Marl : or gy		0059-2L
		5 S/Sst : gy w to lt or gy, f, kln		0059-3L
		tr Cont : dd		0059-4L
2338.00				0060
		60 Sh/Clst: m gy to drk gy, mic, slt		0060-1L
		25 Marl : or gy		0060-2L
		15 S/Sst : gy w to lt or gy, f, kln, l		0060-3L
		tr Cont : dd		0060-4L
2347.00				0061
		70 Sh/Clst: m gy to drk gy, mic, slt		0061-1L
		15 Sltst : gy w to lt gy		0061-3L
		10 Marl : or gy		0061-2L
		5 S/Sst : lt gy w, crs, l, f, kln		0061-4L

Table 1 : Lithology description for well N0CS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2356.00				0062
		45 Sltst : gy w to lt gy		0062-3L
		40 Sh/Clst: m gy to drk gy, mic, slt		0062-1L
		10 Marl : or gy		0062-2L
		5 S/Sst : lt gy w, crs, l, f, kln		0062-4L
2365.00				0063
		65 Sltst : lt gy, mic		0063-2L
		25 Sh/Clst: m gy to drk gy		0063-1L
		10 Marl : or gy		0063-3L
		tr S/Sst : gy w, crs, l		0063-4L
2374.00				0064
		55 Sltst : lt gy, mic		0064-2L
		25 Sh/Clst: m gy to drk gy		0064-1L
		10 Marl : or gy		0064-3L
		10 Cont : dd		0064-5L
		tr S/Sst : gy w, crs, l		0064-4L
2380.00				0065
		45 Sh/Clst: m gy to drk gy		0065-1L
		45 Sltst : lt gy, mic		0065-2L
		10 Marl : or gy		0065-3L
		tr S/Sst : gy w, crs, l		0065-4L
2425.00				0066
		65 S/Sst : lt gy w, crs, l		0066-1L
		35 Sh/Clst: m gy to drk gy, mic		0066-2L
		tr Marl : or gy		0066-3L
		tr Cont : prp		0066-4L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%	%	Lithology description
2428.00			0067
		60 S/Sst	: lt gy w, crs, l 0067-1L
		40 Sh/Clst:	m gy to drk gy, mic 0067-2L
		tr Marl	: or gy 0067-3L
		tr Cont	: prp 0067-4L
2434.00			0068
		80 S/Sst	: lt gy w, crs, l 0068-1L
		20 Sh/Clst:	m gy to drk gy, mic 0068-2L
		tr Coal	: blk 0068-3L
2440.00			0069
		60 Sh/Clst:	m gy to drk gy to brn blk, mic 0069-2L
		40 S/Sst	: lt gy w, crs, l 0069-1L
		tr Cont	: prp 0069-3L
2452.00			0070
		55 S/Sst	: lt gy w, crs, l 0070-1L
		45 Sh/Clst:	m gy to drk gy, mic 0070-2L
		tr Coal	: blk 0070-3L
2458.00			0071
		55 S/Sst	: lt gy w, crs, l 0071-1L
		40 Sh/Clst:	m gy to drk gy, mic 0071-2L
		5 Coal	: blk 0071-3L
		tr Marl	: lt red brn 0071-4L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%	Lithology description	

2464.00			0072
	60	Sh/Clst: m gy to drk gy, mic	0072-2L
	40	S/Sst : lt gy w, crs, l	0072-1L
	tr	Coal : blk	0072-3L
	tr	Marl : lt red brn	0072-4L
2470.00			0073
	80	Sh/Clst: m gy to drk gy, mic	0073-2L
	20	S/Sst : lt gy w, crs, l, f, kln	0073-1L
2476.00			0074
	75	Sh/Clst: m gy to drk gy, mic	0074-2L
	25	S/Sst : lt gy w to lt brn gy, crs, f, l	0074-1L
	tr	Cont : prp	0074-3L
2485.00			0075
	70	Sh/Clst: m gy to brn gy, mic	0075-2L
	30	S/Sst : lt gy w to lt brn gy, crs, f, l	0075-1L
	tr	Coal : blk	0075-3L
2491.00			0076
	40	S/Sst : lt gy w to lt brn gy, crs, f, l	0076-1L
	40	Sh/Clst: m gy to brn gy, mic	0076-2L
	20	Coal : brn blk to blk	0076-3L
2497.00			0077
	50	S/Sst : lt gy w, crs, l	0077-1L
	50	Sh/Clst: brn gy, mic	0077-2L
	tr	Coal : blk	0077-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
-----	-----		---	-----
Int	Cvd	TOC%	%	Lithology description
----	----	-----	-----	-----
2506.00				0078
				70 S/Sst : lt gy w, crs, l 0078-1L
				30 Sh/Clst: brn gy, mic 0078-2L
				tr Coal : blk 0078-3L
2512.00				0079
				50 S/Sst : lt gy w, crs, l 0079-1L
				50 Sh/Clst: brn gy, mic 0079-2L
				tr Cont : dd 0079-3L
2518.00				0080
				35 S/Sst : lt gy w, crs, l 0080-1L
				35 Sh/Clst: brn gy, mic 0080-2L
				30 Sh/Clst: brn to gy red 0080-3L
2524.00				0081
				40 Sh/Clst: brn gy, mic 0081-2L
				30 S/Sst : lt gy w, crs, l 0081-1L
				30 Sh/Clst: brn to gy red 0081-3L
2530.00				0082
				45 Sh/Clst: brn to gy red 0082-3L
				25 S/Sst : lt gy w, crs, l 0082-1L
				25 Sh/Clst: brn gy, mic 0082-2L
				5 Kaolin : w 0082-4L
2536.00				0083
				60 Sh/Clst: brn to red brn 0083-3L
				25 Sh/Clst: m gy to brn gy 0083-2L
				15 S/Sst : lt gy w, crs, l, f, kln 0083-1L
				tr Kaolin : w 0083-4L

Table 1 : Lithology description for well N0CS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%	Lithology description	

2545.00			0084
	85	Sh/Clst: brn to red brn	0084-3L
	10	S/Sst : lt gy w, crs, l, f, kln	0084-1L
	5	Sh/Clst: m gy to brn gy	0084-2L
2551.00			0085
	75	Sh/Clst: brn to red brn	0085-3L
	25	S/Sst : lt gy w, crs, l, f, kln	0085-1L
	tr	Sh/Clst: lt y gn	0085-2L
2557.00			0086
	75	Sh/Clst: brn to red brn	0086-3L
	20	S/Sst : lt gy w, crs, l, f, kln	0086-1L
	5	Sh/Clst: lt y gn	0086-2L
2563.00			0087
	50	Sh/Clst: brn to red brn	0087-3L
	25	Sh/Clst: m gy to drk gy to brn gy	0087-4L
	15	Sh/Clst: lt y gn, mic	0087-2L
	10	S/Sst : lt gy w, crs, l, f, kln	0087-1L
2569.00			0088
	55	Sh/Clst: m gy to drk gy to brn gy	0088-4L
	45	Sh/Clst: brn to red brn	0088-3L
	tr	S/Sst : lt gy w, crs, l, f, kln	0088-1L
	tr	Sh/Clst: lt y gn, mic	0088-2L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2575.00				0089
		60 Sh/Clst: m gy to brn gy		0089-4L
		30 Sh/Clst: brn to red brn		0089-3L
		10 Coal : brn blk to blk, wx		0089-5L
		tr S/Sst : lt gy w, crs, l, f, kln		0089-1L
		tr Sh/Clst: lt y gn, mic		0089-2L
2581.00				0090
		80 Sh/Clst: brn to red brn		0090-2L
		20 Sh/Clst: m gy to brn gy		0090-3L
		tr S/Sst : lt gy w, crs, l, f, kln		0090-1L
		tr Coal : brn blk to blk, wx		0090-4L
2587.00				0091
		80 Sh/Clst: brn to red brn		0091-2L
		15 Sh/Clst: m gy to drk gy to brn gy		0091-3L
		5 S/Sst : lt gy w, f, l, kln		0091-1L
2593.00				0092
		70 S/Sst : lt gy w, f, crs, l, kln		0092-1L
		25 Sh/Clst: brn to red brn		0092-2L
		5 Sh/Clst: m gy to drk gy to brn gy		0092-3L
		tr Cont : prp, Mica-ad		0092-4L
2605.00				0093
		70 S/Sst : lt gy w, f, crs, l, kln		0093-1L
		20 Sh/Clst: brn to red brn		0093-2L
		5 Sh/Clst: m gy to drk gy to brn gy		0093-3L
		5 Sltst : lt gy		0093-4L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
-----	-----		---	-----
Int Cvd	TOC%	% Lithology description		
---	---	-----		
2611.00				0094
		60 S/Sst : lt gy w, f, crs, l, kln		0094-1L
		30 Sh/Clst: brn to red brn		0094-2L
		5 Sh/Clst: m gy to drk gy to brn gy		0094-3L
		5 Sltst : lt gy		0094-4L
2620.00				0095
		60 S/Sst : lt gy w, f, crs, l, kln		0095-1L
		25 Sh/Clst: brn to red brn		0095-2L
		10 Sltst : lt gy		0095-4L
		5 Sh/Clst: gn gy, calc		0095-5L
		tr Sh/Clst: m gy to drk gy to brn gy		0095-3L
2626.00				0096
		70 S/Sst : lt gy w, f, crs, l, kln		0096-1L
		30 Sh/Clst: brn to red brn		0096-2L
		tr Sh/Clst: m gy to drk gy to brn gy		0096-3L
		tr Sltst : lt gy		0096-4L
2638.00				0097
		75 S/Sst : lt gy w, f, crs, l, kln		0097-1L
		25 Sh/Clst: brn to red brn		0097-2L
		tr Sh/Clst: m gy to drk gy to brn gy		0097-3L
2644.00				0098
		75 S/Sst : lt gy w, f, crs, l, kln		0098-1L
		25 Sh/Clst: brn to red brn		0098-2L
		tr Sh/Clst: m gy to drk gy to brn gy		0098-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2653.00				0099
		60 S/Sst : lt gy w, f, crs, l, kln		0099-1L
		30 Sh/Clst: brn to red brn		0099-2L
		5 Sh/Clst: m bl gy to gy gn		0099-3L
		5 Ca : w to or w		0099-4L
2662.00				0100
		50 S/Sst : lt gy w, f, crs, l, kln		0100-1L
		40 Sh/Clst: brn to red brn		0100-2L
		5 Sh/Clst: m bl gy to gy gn		0100-3L
		5 Ca : w to or w		0100-4L
2668.00				0101
		50 Sh/Clst: brn to red brn		0101-2L
		30 S/Sst : lt gy w, f, crs, l, kln		0101-1L
		15 Ca : w to or w		0101-4L
		5 Sh/Clst: m bl gy to gy gn		0101-3L
2674.00				0102
		50 Sh/Clst: brn to red brn		0102-2L
		30 S/Sst : lt gy w, f, crs, l, kln		0102-1L
		15 Ca : w to or w		0102-4L
		5 Sh/Clst: m bl gy to gy gn		0102-3L
2680.00				0103
		60 Sh/Clst: brn to red brn		0103-2L
		25 S/Sst : lt gy w, f, crs, l, kln		0103-1L
		15 Ca : w to or w		0103-4L
		tr Sh/Clst: m bl gy to gy gn		0103-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2686.00				0104
		65 Sh/Clst: brn to red brn		0104-2L
		15 S/Sst : lt gy w, f, crs, l, kln		0104-1L
		15 Ca : w to or w		0104-4L
		5 Sh/Clst: m bl gy to gy gn		0104-3L
2692.00				0105
		70 Sh/Clst: brn to red brn		0105-2L
		15 S/Sst : lt gy w to lt gy to red w, f, kln		0105-1L
		10 Ca : w to or w		0105-4L
		5 Sh/Clst: m bl gy to gy gn		0105-3L
2698.00				0106
		85 Sh/Clst: brn to red brn		0106-2L
		5 S/Sst : lt gy w to lt gy to red w, f, kln		0106-1L
		5 Sh/Clst: m bl gy to gy gn		0106-3L
		5 Ca : w to or w		0106-4L
2704.00				0107
		85 Sh/Clst: brn to red brn		0107-2L
		10 S/Sst : lt gy w to lt gy to red w, f, kln		0107-1L
		5 Sh/Clst: m bl gy to gy gn		0107-3L
		tr Ca : w to or w		0107-4L
2710.00				0108
		80 Sh/Clst: brn to red brn		0108-2L
		15 S/Sst : lt gy w to lt gy to red w, f, kln		0108-1L
		5 Sh/Clst: m bl gy to gy gn		0108-3L
		tr Ca : w to or w		0108-4L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2716.00				0109
		80 Sh/Clst: brn to red brn		0109-2L
		20 S/Sst : lt gy w to lt gy to red w, f, kln		0109-1L
		tr Sh/Clst: m bl gy to gy gn		0109-3L
2722.00				0110
		85 Sh/Clst: brn to red brn		0110-2L
		15 S/Sst : lt gy w to lt gy to red w, f, kln		0110-1L
		tr Sh/Clst: m bl gy to gy gn		0110-3L
2728.00				0111
		75 Sh/Clst: brn to red brn		0111-2L
		20 S/Sst : lt gy w to lt gy to red w, f, kln		0111-1L
		5 Sh/Clst: m bl gy to gy gn		0111-3L
		tr Cont : prp		0111-4L
2746.00				0112
		85 Sh/Clst: brn to red brn		0112-2L
		10 S/Sst : lt gy w to lt gy to red w, f, kln		0112-1L
		5 Marl : lt brn		0112-4L
		tr Sh/Clst: m bl gy to gy gn		0112-3L
2752.00				0113
		75 Sh/Clst: brn to red brn		0113-2L
		15 S/Sst : lt gy w to lt gy to red w, f, kln		0113-1L
		10 Marl : lt brn		0113-4L
		tr Sh/Clst: m bl gy to gy gn		0113-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%	Lithology description	

2764.00			0114
	85	Sh/Clst: brn to red brn	0114-2L
	10	S/Sst : lt gy w to lt gy to red w, f, kln	0114-1L
	5	Marl : lt brn	0114-4L
	tr	Sh/Clst: m bl gy to gy gn	0114-3L
2779.00			0115
	90	Sh/Clst: brn to red brn	0115-2L
	5	S/Sst : lt gy w to lt gy to red w, f, kln	0115-1L
	5	Marl : lt brn	0115-4L
	tr	Sh/Clst: m bl gy to gy gn	0115-3L
2785.00			0116
	85	Sh/Clst: brn to red brn	0116-2L
	10	S/Sst : lt gy w to lt gy to red w, f, kln	0116-1L
	5	Marl : lt brn	0116-4L
	tr	Sh/Clst: m bl gy to gy gn	0116-3L
2791.00			0117
	75	Sh/Clst: brn to red brn	0117-2L
	15	Marl : lt brn	0117-4L
	10	S/Sst : lt gy w to lt gy to red w, f, kln	0117-1L
	tr	Sh/Clst: m bl gy to gy gn	0117-3L
2797.00			0118
	80	Sh/Clst: brn to red brn	0118-2L
	10	S/Sst : lt gy w to lt gy to red w, f, kln	0118-1L
	10	Marl : lt brn	0118-4L
	tr	Sh/Clst: m bl gy to gy gn	0118-3L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		
% Lithology description			
2803.00			0119
	75 Sh/Clst:		0119-2L
	15 Marl :		0119-4L
	10 S/Sst :		0119-1L
	tr Sh/Clst:		0119-3L
2809.00			0120
	70 Sh/Clst:		0120-2L
	15 S/Sst :		0120-1L
	15 Marl :		0120-3L
2818.00			0121
	80 Sh/Clst:		0121-2L
	15 S/Sst :		0121-1L
	5 Marl :		0121-3L
2824.00			0122
	90 Sh/Clst:		0122-2L
	10 S/Sst :		0122-1L
	tr Marl :		0122-3L
2830.00			0123
	85 Sh/Clst:		0123-2L
	10 S/Sst :		0123-1L
	5 Marl :		0123-3L
2836.00			0124
	85 Sh/Clst:		0124-2L
	10 S/Sst :		0124-1L
	5 Marl :		0124-3L

Table 1 : Lithology description for well N0CS 25/6-1

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%		

	%		

2842.00			0125
	60 Sh/Clst:		0125-1L
	35 Ca :		0125-2L
	5 S/Sst :		0125-3L
2848.00			0126
	55 Ca :		0126-2L
	30 Sh/Clst:		0126-1L
	15 S/Sst :		0126-3L
2854.00			0127
	30 Sh/Clst:		0127-1L
	30 Ca :		0127-2L
	25 Volc :		0127-4L
	15 S/Sst :		0127-3L
2860.00			0128
	70 Volc :		0128-3L
	20 Sh/Clst:		0128-1L
	10 Ca :		0128-2L
2866.00			0129
	85 Volc :		0129-3L
	10 Sh/Clst:		0129-1L
	5 Sh/Clst:		0129-4L
	tr Ca :		0129-2L

Table 1 : Lithology description for well NOCS 25/6-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2872.00				0130
		90 Volc		0130-2L
		5 Sh/Clst:		0130-1L
		5 Sh/Clst:		0130-3L
2878.00				0131
		80 Volc		0131-2L
		20 Sh/Clst:		0131-1L
		tr Sh/Clst:		0131-3L
2881.00				0132
		95 Volc		0132-2L
		5 Sh/Clst:		0132-1L
		tr Sh/Clst:		0132-3L

Table 2 : Rock-Eval table for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1120.00	cut	bulk	0.07	0.17	0.33	0.52	0.21	81	157	0.2	0.29	413	0011-0B
1210.00	com	bulk	0.17	1.02	1.15	0.89	1.00	102	115	1.2	0.14	424	0133-0B
2160.00	cut	S/Sst : lt gy w	0.02	0.18	0.07	2.57	0.11	164	64	0.2	0.10	423	0042-2L
2230.00	cut	Ca : w to lt or pi	0.04	0.20	0.60	0.33	0.19	105	316	0.2	0.17	422	0049-2L
2236.00	cut	Ca : w to lt or pi	0.07	1.08	0.38	2.84	0.31	348	123	1.2	0.06	423	0050-2L
2242.00	cut	Sh/Clst: gy blk	1.22	44.30	0.42	105.48	6.46	686	7	45.5	0.03	428	0051-1L
2246.00	cut	S/Sst : lt gy w	0.04	0.26	0.08	3.25	0.24	108	33	0.3	0.13	425	0052-1L
2275.00	cut	Sh/Clst: drk gy to gy blk	0.86	23.93	0.77	31.08	7.30	328	11	24.8	0.03	422	0053-1L
2281.00	cut	Sh/Clst: drk gy to gy blk	0.90	34.52	0.71	48.62	6.60	523	11	35.4	0.03	421	0054-1L
2289.00	ccp	Sltst : lt gy to lt or gy	0.04	0.02	0.40	0.05	0.08	25	500	0.1	0.67	410	0003-1L
2290.00	cut	Sh/Clst: drk gy to gy blk	0.91	26.67	0.50	53.34	5.45	489	9	27.6	0.03	426	0055-1L
2294.20	ccp	S/Sst : lt gy to lt or gy	-	0.05	0.16	0.31	0.05	100	320	0.1	-	466	0004-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	0.23	1.43	1.14	1.25	0.84	170	136	1.7	0.14	440	0006-1L
2309.70	ccp	Sh/Clst: m gy	0.18	1.19	0.30	3.97	0.82	145	37	1.4	0.13	438	0007-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.98	26.85	0.43	62.44	5.30	507	8	27.8	0.04	428	0056-1L

Table 2 : Rock-Eval table for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2323.00	cut	Sh/Clst: m gy to drk gy	0.29	5.31	0.49	10.84	1.82	292	27	5.6	0.05	431	0057-1L
2329.00	cut	Sh/Clst: m gy to drk gy	0.23	2.69	0.37	7.27	1.25	215	30	2.9	0.08	435	0058-1L
2332.00	cut	Sh/Clst: m gy to drk gy	0.34	7.15	0.74	9.66	2.55	280	29	7.5	0.05	430	0059-1L
2338.00	cut	Sh/Clst: m gy to drk gy	0.13	0.97	0.45	2.16	0.82	118	55	1.1	0.12	440	0060-1L
2347.00	cut	Sh/Clst: m gy to drk gy	0.21	1.82	0.36	5.06	1.01	180	36	2.0	0.10	435	0061-1L
2356.00	cut	Sltst : gy w to lt gy	0.07	0.21	0.24	0.88	0.28	75	86	0.3	0.25	431	0062-3L
2365.00	cut	Sltst : lt gy	0.10	0.30	0.26	1.15	0.33	91	79	0.4	0.25	432	0063-2L
2374.00	cut	Sltst : lt gy	0.12	0.65	0.17	3.82	0.53	123	32	0.8	0.16	434	0064-2L
2380.00	cut	Sh/Clst: m gy to drk gy	0.34	3.60	0.23	15.65	1.41	255	16	3.9	0.09	434	0065-1L
2425.00	cut	S/Sst : lt gy w	0.02	0.14	0.04	3.50	0.13	108	31	0.2	0.13	423	0066-1L
2428.00	cut	S/Sst : lt gy w	0.02	0.07	0.01	7.00	0.10	70	10	0.1	0.22	421	0067-1L
2440.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.27	6.36	0.15	42.40	1.81	351	8	6.6	0.04	432	0069-2L
2458.00	cut	S/Sst : lt gy w	0.03	0.19	0.08	2.38	0.15	127	53	0.2	0.14	423	0071-1L
2485.00	cut	Sh/Clst: m gy to brn gy	0.40	10.23	0.25	40.92	2.77	369	9	10.6	0.04	428	0075-2L
2491.00	cut	S/Sst : lt gy w to lt brn gy	0.06	0.33	0.43	0.77	0.32	103	134	0.4	0.15	429	0076-1L

Table 2 : Rock-Eval table for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2497.00	cut	S/Sst : lt gy w	0.03	0.26	0.10	2.60	0.21	124	48	0.3	0.10	425	0077-1L
2536.00	cut	Sh/Clst: brn to red brn	0.03	0.11	0.47	0.23	0.21	52	224	0.1	0.21	421	0083-3L
2557.00	cut	Sh/Clst: brn to red brn	0.01	-	0.25	-	0.06	-	417	-	1.00	-	0086-3L
2626.00	cut	S/Sst : lt gy w	0.01	0.01	0.02	0.50	0.04	25	50	-	0.50	330	0096-1L
2668.00	cut	Sh/Clst: brn to red brn	-	-	0.11	-	0.06	-	183	-	-	-	0101-2L
2710.00	cut	Sh/Clst: brn to red brn	-	-	0.05	-	0.04	-	125	-	-	-	0108-2L
2746.00	cut	Sh/Clst: brn to red brn	0.08	0.06	0.06	1.00	0.07	86	86	0.1	0.57	300	0112-2L
2791.00	cut	Sh/Clst: brn to red brn	0.02	-	0.07	-	0.05	-	140	-	1.00	-	0117-2L
2836.00	cut	Sh/Clst: brn to red brn	0.03	-	0.06	-	0.08	-	75	-	1.00	-	0124-2L
2848.00	cut	Ca : w to or w	0.04	0.02	0.31	0.06	0.07	29	443	0.1	0.67	-	0126-2L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well N0CS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1210.00	com	bulk	7.93	34.81	51.73	5.54	1.02	0133-0B
2160.00	cut	S/Sst : lt gy w	6.81	30.02	52.71	10.45	0.18	0042-2L
2230.00	cut	Ca : w to lt or pi	8.65	34.70	50.52	6.13	0.20	0049-2L
2236.00	cut	Ca : w to lt or pi	5.64	20.93	47.47	25.96	1.08	0050-2L
2242.00	cut	Sh/Clst: gy blk	2.70	11.67	31.91	53.72	44.30	0051-1L
2246.00	cut	S/Sst : lt gy w	4.80	18.75	45.14	31.32	0.26	0052-1L
2275.00	cut	Sh/Clst: drk gy to gy blk	3.94	12.73	33.44	49.89	23.93	0053-1L
2290.00	cut	Sh/Clst: drk gy to gy blk	2.96	12.34	32.77	51.93	26.67	0055-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	5.47	19.32	45.03	30.18	1.43	0006-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	2.56	12.59	32.69	52.16	26.85	0056-1L
2329.00	cut	Sh/Clst: m gy to drk gy	3.94	16.41	45.87	33.78	2.69	0058-1L
2347.00	cut	Sh/Clst: m gy to drk gy	4.32	17.65	47.25	30.79	1.82	0061-1L
2365.00	cut	Sltst : lt gy	6.31	21.41	47.53	24.76	0.30	0063-2L
2380.00	cut	Sh/Clst: m gy to drk gy	4.03	15.22	42.56	38.19	3.60	0065-1L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well N0CS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2440.00	cut	Sh/Clst: m gy to drk gy to brn blk	2.97	13.03	39.06	44.95	6.36	0069-2L
2485.00	cut	Sh/Clst: m gy to brn gy	4.56	14.96	36.43	44.05	10.23	0075-2L
2491.00	cut	S/Sst : lt gy w to lt brn gy	7.00	24.47	49.89	18.63	0.33	0076-1L

Table 4 a: Weight of EOM and Chromatographic Fraction for well NOCS 25/6-1

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
2279.70	oil		-	43.8	33.5	5.6	3.6	1.1	39.1	4.7	-	0001-0B
2281.00	com	Composite sample - see table 4 e	5.5	4.2	0.6	0.8	0.9	1.9	1.4	2.8	2.23	0134-0B
2290.00	cut	Sh/Clst: drk gy to gy blk	2.8	7.2	1.1	1.1	1.3	3.7	2.2	5.0	5.74	0055-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	9.9	4.6	0.9	1.1	1.7	0.9	2.0	2.6	0.99	0006-1L
2309.70	ccp	Sh/Clst: m gy	8.2	2.9	0.9	0.5	0.7	0.8	1.4	1.5	1.19	0007-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	1.7	2.4	0.2	0.2	0.6	1.4	0.4	2.0	2.50	0056-1L
2347.00	com	Composite sample - see table 4 e	3.1	2.7	0.9	0.6	0.3	0.9	1.5	1.2	1.90	0136-0B
2425.00	com	Composite sample - see table 4 e	2.3	1.2	0.3	0.2	0.3	0.4	0.5	0.7	1.27	0135-0B
2485.00	cut	Sh/Clst: m gy to brn gy	4.0	1.6	0.2	0.2	0.6	0.6	0.4	1.2	0.78	0075-2L

Table 4 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2279.70	oil		-	-	-	-	-	-	-	0001-0B
2281.00	com	Composite sample - see table 4 e	763	109	145	163	345	254	509	0134-0B
2290.00	cut	Sh/Clst: drk gy to gy blk	2608	398	398	471	1340	797	1811	0055-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	467	91	111	172	91	203	263	0006-1L
2309.70	ccp	Sh/Clst: m gy	351	109	60	84	97	169	182	0007-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	1411	117	117	352	823	235	1176	0056-1L
2347.00	com	Composite sample - see table 4 e	859	286	191	95	286	477	382	0136-0B
2425.00	com	Composite sample - see table 4 e	530	132	88	132	176	221	309	0135-0B
2485.00	cut	Sh/Clst: m gy to brn gy	401	50	50	150	150	100	300	0075-2L

Table 4 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well N0CS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2279.70	oil		-	-	-	-	-	-	-	0001-0B
2281.00	com	Composite sample - see table 4 e	34.24	4.89	6.52	7.34	15.49	11.41	22.83	0134-0B
2290.00	cut	Sh/Clst: drk gy to gy blk	45.45	6.94	6.94	8.21	23.36	13.89	31.56	0055-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	47.17	9.23	11.28	17.43	9.23	20.51	26.66	0006-1L
2309.70	ccp	Sh/Clst: m gy	29.57	9.18	5.10	7.14	8.16	14.28	15.30	0007-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	56.47	4.71	4.71	14.12	32.94	9.41	47.06	0056-1L
2347.00	com	Composite sample - see table 4 e	45.26	15.09	10.06	5.03	15.09	25.14	20.11	0136-0B
2425.00	com	Composite sample - see table 4 e	41.81	10.45	6.97	10.45	13.94	17.42	24.39	0135-0B
2485.00	cut	Sh/Clst: m gy to brn gy	51.41	6.43	6.43	19.28	19.28	12.85	38.56	0075-2L

Table 4 d: Composition of material extracted from the rock (%) for well NOCS 25/6-1

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	
2279.70	oil		76.48	12.79	8.22	2.51	89.27	10.73	598.21	831.91	0001-0B
2281.00	com	Composite sample - see table 4 e	14.29	19.05	21.43	45.24	33.33	66.67	75.00	50.00	0134-0B
2290.00	cut	Sh/Clst: drk gy to gy blk	15.28	15.28	18.06	51.39	30.56	69.44	100.00	44.00	0055-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	19.57	23.91	36.96	19.57	43.48	56.52	81.82	76.92	0006-1L
2309.70	ccp	Sh/Clst: m gy	31.03	17.24	24.14	27.59	48.28	51.72	180.00	93.33	0007-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	8.33	8.33	25.00	58.33	16.67	83.33	100.00	20.00	0056-1L
2347.00	com	Composite sample - see table 4 e	33.33	22.22	11.11	33.33	55.56	44.44	150.00	125.00	0136-0B
2425.00	com	Composite sample - see table 4 e	25.00	16.67	25.00	33.33	41.67	58.33	150.00	71.43	0135-0B
2485.00	cut	Sh/Clst: m gy to brn gy	12.50	12.50	37.50	37.50	25.00	75.00	100.00	33.33	0075-2L

Depth unit of measure: m

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

<u>Upper depth</u>	<u>Lower depth</u>	<u>Typ</u>	<u>Sample</u>	<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sample</u>
2242.00	2281.00	com	0134-0B is composed of:	2242.00	cut	Sh/Clst: gy blk, fis	0051-1L
				2246.00	cut	S/Sst : lt gy w, crs, l	0052-1L
				2275.00	cut	Sh/Clst: drk gy to gy blk, fis	0053-1L
				2281.00	cut	Sh/Clst: drk gy to gy blk, fis	0054-1L
2323.00	2347.00	com	0136-0B is composed of:	2323.00	cut	Sh/Clst: m gy to drk gy, mic, slt	0057-1L
				2329.00	cut	Sh/Clst: m gy to drk gy, mic, slt	0058-1L
				2332.00	cut	Sh/Clst: m gy to drk gy, mic, slt	0059-1L
				2338.00	cut	Sh/Clst: m gy to drk gy, mic, slt	0060-1L
				2347.00	cut	Sh/Clst: m gy to drk gy, mic, slt	0061-1L
2356.00	2425.00	com	0135-0B is composed of:	2356.00	cut	Sh/Clst: m gy to drk gy, mic, slt	0062-1L
				2365.00	cut	Sh/Clst: m gy to drk gy	0063-1L
				2374.00	cut	Sh/Clst: m gy to drk gy	0064-1L
				2380.00	cut	Sh/Clst: m gy to drk gy	0065-1L
				2425.00	cut	Sh/Clst: m gy to drk gy, mic	0066-2L

Table 5 : Saturated Hydrocarbon Ratios for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	<u>Pristane</u> nC17	<u>Pristane</u> Phytane	<u>Pristane + Phytane</u> nC17 + nC18	<u>Phytane</u> nC18	CPI	Sample
2279.70	oil		0.66	2.95	0.50	0.29	-	0001-0B
2281.00	com	bulk	0.88	1.92	0.77	0.62	1.50	0134-0B
2290.00	cut	Sh/Clst: drk gy to gy blk	1.12	1.94	1.00	0.82	1.24	0055-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	1.14	4.65	0.85	0.39	1.30	0006-1L
2309.70	ccp	Sh/Clst: m gy	0.84	3.39	0.64	0.35	1.71	0007-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.63	2.28	0.55	0.42	1.64	0056-1L
2347.00	com	bulk	0.77	2.43	0.64	0.45	1.64	0136-0B
2425.00	com	bulk	0.73	2.22	0.60	0.42	1.50	0135-0B
2485.00	cut	Sh/Clst: m gy to brn gy	0.71	2.60	0.59	0.41	1.55	0075-2L

Table 6 : Aromatic Hydrocarbon Ratios for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
2279.70	oil		1.50	-	-	-	-	-	-	-	-	-	0001-0B
2281.00	com bulk		-	0.95	-	1.18	0.74	0.69	0.84	0.31	0.29	0.13	0134-0B
2290.00	cut	Sh/Clst: drk gy to gy blk	-	0.87	-	1.12	1.00	0.83	1.00	0.46	0.23	0.12	0055-1L
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	0.44	1.63	0.09	0.94	0.46	0.49	0.68	-	-	-	0006-1L
2309.70	ccp	Sh/Clst: m gy	-	1.04	-	-	0.24	-	0.54	-	-	-	0007-1L
2314.00	cut	Sh/Clst: m gy to drk gy to brn blk	-	-	-	1.18	0.80	0.76	0.88	0.26	0.42	0.17	0056-1L
2347.00	com bulk		-	0.47	-	0.95	0.68	0.66	0.81	-	-	-	0136-0B
2425.00	com bulk		-	-	-	1.20	0.57	0.62	0.74	-	1.10	-	0135-0B
2485.00	cut	Sh/Clst: m gy to brn gy	-	-	-	1.17	0.60	0.65	0.76	-	0.74	-	0075-2L

Table 7 : Thermal Maturity Data for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1020.00	cut bulk	0.24	4	0.02	-	-	-	0008-0B
1020.00	cut Sh/Clst: brn gy to dsk brn gy	-	-	-	-	3.0-3.5	-	0008-1L
1240.00	cut bulk	0.29	5	0.02	-	-	-	0015-0B
1240.00	cut Sh/Clst: brn gy to drk y brn	-	-	-	-	3.5-4.0(?)	-	0015-1L
1500.00	cut bulk	NDP	-	-	-	-	-	0022-0B
1500.00	cut Sh/Clst: m y brn to drk y brn	-	-	-	-	4.0	-	0022-1L
1750.00	cut bulk	NDP	-	-	-	-	-	0030-0B
1910.00	cut bulk	0.24	6	0.02	-	-	-	0035-0B
2040.00	cut bulk	NDP	-	-	-	-	-	0038-0B
2040.00	cut Sh/Clst: lt ol gy to m gy to lt brn gy	-	-	-	-	4.0-4.5	-	0038-1L
2100.00	cut Sh/Clst: lt ol gy to m gy to lt brn gy	-	-	-	-	4.5	-	0040-1L
2160.00	cut bulk	0.70	4	0.07	-	-	-	0042-0B
2242.00	cut bulk	0.24	6	0.03	-	-	-	0051-0B

Table 7 : Thermal Maturity Data for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
2242.00	cut	Sh/Clst: gy blk	-	-	-	-	4.5	428	0051-1L
2275.00	cut	bulk	0.26	7	0.01	-	-	-	0053-0B
2290.00	cut	Sh/Clst: drk gy to gy blk	-	-	-	-	4.5-5.0	426	0055-1L
2299.00	ccp	bulk	0.26	5	0.01	-	-	-	0005-0B
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	-	-	-	-	5.0-5.5	440	0006-1L
2425.00	cut	bulk	0.31	2	0.01	-	-	-	0066-0B
2491.00	cut	bulk	0.43	18	0.05	-	-	-	0076-0B
2626.00	cut	bulk	NDP	-	-	-	-	-	0096-0B
2626.00	cut	Sh/Clst: brn to red brn	-	-	-	-	NDP	-	0096-2L
2752.00	cut	bulk	NDP	-	-	-	-	-	0113-0B
2752.00	cut	Sh/Clst: brn to red brn	-	-	-	-	NDP	-	0113-2L
2842.00	cut	bulk	NDP	-	-	-	-	-	0125-0B

Table 8 : Visual Kerogen Composition Data for well NOCS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	D			I	S	I	M	S	V	C	V	A	Sample		
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n	o	I		%	n
1020.00	cut	Sh/Clst: brn gy to disk brn gy	85	**	*	**	*	**	*		TR	*				15	**	*		0008-1L		
1240.00	cut	Sh/Clst: brn gy to drk y brn	100	**	**	*		*	*		TR	*			TR		*		0015-1L			
1500.00	cut	Sh/Clst: m y brn to drk y brn	100	**		*		*	*		TR	*			TR	*	*		0022-1L			
2040.00	cut	Sh/Clst: lt ol gy to m gy to lt brn gy	80	*	*	**		*	*		10	*	*	**	10	*			0038-1L			
2100.00	cut	Sh/Clst: lt ol gy to m gy to lt brn gy	80	*		**		*	*		10	*	*	*	10	*			0040-1L			
2242.00	cut	Sh/Clst: gy blk	100	**	*	*	*	**	*		TR	*			TR		*		0051-1L			
2290.00	cut	Sh/Clst: drk gy to gy blk	75	**		*		*	*		20	**	**	*	5	**	*		0055-1L			
2304.00	ccp	Sh/Clst: lt gy to m gy to brn gy	20			**	*	*			15	**	*		65	**	*		0006-1L			
2626.00	cut	Sh/Clst: brn to red brn	NDP								NDP				NDP				0096-2L			
2752.00	cut	Sh/Clst: brn to red brn	NDP								NDP				NDP				0113-2L			

Table 9a : Tabulation of carbon isotope data for EOM/EOM - fractions or Oils for well N0CS 25/6-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM/Oil	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
2279.70	oil		-27.27	-28.11	-26.34	-25.97	-26.31	-	0001-0B
2281.00	com	Composite sample	-	-29.92	-29.26	-28.98	-27.56	-	0134-0B
2290.00	cut		-	-30.88	-29.74	-30.25	-28.97	-	0055-1L
2304.00	ccp		-	-28.68	-28.41	-27.58	-26.14	-	0006-1L
2309.70	ccp		-	-29.34	-27.89	-27.74	-25.95	-	0007-1L
2314.00	cut		-	-28.30	-28.01	-28.44	-27.08	-	0056-1L
2347.00	com	Composite sample	-	-27.81	-27.46	-28.28	-26.49	-	0136-0B
2425.00	com	Composite sample	-	-27.95	-28.13	-27.96	-26.86	-	0135-0B
2485.00	cut		-	-27.84	-27.94	-27.72	-27.00	-	0075-2L