

# Geochemical Report for

## Well NOCS 7/8-3

Authors:

Geir Hansen  
Kjell Arne Bakken

Geolab Nor A/S  
P.O.Box 5740 Fossegrenda  
7002 Trondheim  
Norway

Date :

21.07.92

BA-94-549-1

18 MARS 1994

REGISTRERT

OLJEDIREKTORATET

## 1.2 Analytical Program

<u>Analysis type</u>	<u>No of samples</u>	<u>Figures</u>	<u>Tables</u>
Lithology description	212		2
Rock-Eval pyrolysis	44	3,4,5	3
Thermal extraction GC (GHM, S <sub>1</sub> )	18	6a-c	
Pyrolysis GC (GHM, S <sub>2</sub> )	18	7a-c,8	4
Soxhlet Extraction and MPLC/HPLC separation	7		
Saturated hydrocarbon GC	7	9a-c	6
Aromatic hydrocarbon GC	7	10a-c	7
Vitrinite reflectance	15	11	8
Visual kerogen microscopy	11	12	9
Isotope composition C <sub>15</sub> + fractions	4	13,14	10a-b
GC - MS of saturated and aromatic HC	4	15a-g	11a-i
GC - MS cross-plots		16a-e	

- 1-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1000.00						0001
				100 Sh/Clst: lt gy		0001-1L
1020.00						0002
				100 Sh/Clst: lt gy		0002-1L
1040.00						0003
				100 Sh/Clst: lt gy to m gy		0003-1L
1060.00						0004
				100 Sh/Clst: lt gy to m gy tr Cont : dd		0004-1L 0004-2L
1080.00						0005
				100 Sh/Clst: lt gy to m gy tr Cont : dd		0005-1L 0005-2L
1100.00						0006
				95 Sh/Clst: lt gy to m gy 5 Cont : dd, prp		0006-1L 0006-2L
1120.00						0007
				90 Sh/Clst: lt gy to m gy 10 Cont : dd, prp		0007-1L 0007-2L

- 2-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1140.00						0008
			95	Sh/Clst: lt gy to m gy		0008-1L
			5	Cont : dd, prp		0008-2L
1160.00						0009
			100	Sh/Clst: lt gy		0009-1L
			tr	Cont : dd		0009-2L
1180.00						0010
			95	Sh/Clst: lt gy		0010-1L
			5	Cont : dd, prp		0010-2L
1200.00						0011
			100	Sh/Clst: lt gy		0011-1L
			tr	Cont : dd, prp		0011-2L
1220.00						0012
			95	Sh/Clst: lt gy		0012-1L
			5	Cont : dd		0012-2L
1240.00						0013
			95	Sh/Clst: lt gy		0013-1L
			5	Cont : dd		0013-2L
1260.00						0014
			90	Sh/Clst: lt gy		0014-1L
			10	Cont : dd		0014-2L

- 3-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1280.00						0015
			95	Sh/Clst: lt gy to lt brn gy		0015-1L
			5	Cont : dd		0015-2L
1300.00						0016
			95	Sh/Clst: lt gy to lt brn gy		0016-1L
			5	Cont : dd		0016-2L
1320.00						0017
			100	Sh/Clst: lt gy		0017-1L
				tr S/Sst : w, crs, l		0017-2L
1340.00						0018
			100	Sh/Clst: lt gy		0018-1L
				tr Cont : dd		0018-2L
1360.00						0019
			100	Sh/Clst: pl y brn		0019-1L
1380.00						0020
			100	Sh/Clst: lt gy to lt brn gy		0020-1L
1400.00						0021
			50	Sh/Clst: lt gy to lt brn gy		0021-1L
			50	Sh/Clst: dsk brn		0021-2L

- 4-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1420.00						0022
			60	Sh/Clst: lt gy to lt brn gy		0022-1L
			40	Sh/Clst: dsk brn		0022-2L
1440.00						0023
			100	Sh/Clst: drk gy to pl y brn		0023-1L
1460.00						0024
			100	Sh/Clst: lt gy to pl y brn		0024-1L
1480.00						0025
			100	Sh/Clst: lt gy to pl y brn to drk y brn		0025-1L
1500.00						0026
			100	Sh/Clst: gy brn to drk y brn		0026-1L
1520.00						0027
			100	Sh/Clst: lt gy to m gy		0027-1L
1540.00						0028
			100	Sh/Clst: lt brn gy to drk y brn		0028-1L
1560.00						0029
			100	Sh/Clst: brn gy to drk y brn		0029-1L

- 5-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
1580.00						0030
		100	Sh/Clst: lt gy to brn gy to drk y brn			0030-1L
1600.00						0031
		100	Sh/Clst: lt gy to brn gy to drk y brn			0031-1L
1620.00						0032
		100	Sh/Clst: lt gy to brn gy to drk y brn			0032-1L
1640.00						0033
		100	Sh/Clst: lt gy to brn gy to drk y brn tr Cont : dd			0033-1L 0033-2L
1660.00						0034
		100	Sh/Clst: lt gy to brn gy to drk y brn tr Cont : dd			0034-1L 0034-2L
1680.00						0035
		100	Sh/Clst: lt gy to brn gy to drk y brn tr Cont : prp			0035-1L 0035-2L
1700.00						0036
		75	Sh/Clst: lt gy to brn gy to drk y brn			0036-1L
		20	S/Sst : lt gy to drk y brn, crs, l			0036-3L
		5	Cont : prp			0036-2L

- 6-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1720.00						0037
				100 Sh/Clst: gy brn to drk brn		0037-1L
				tr Cont : prp		0037-2L
1740.00						0038
				100 Sh/Clst: m gy to drk gy		0038-1L
				tr Cont : prp		0038-2L
1760.00						0039
				100 Sh/Clst: lt gy to m gy to drk gy		0039-1L
1780.00						0040
				100 Sh/Clst: lt gy to m gy to drk gy		0040-1L
1800.00						0041
				100 Sh/Clst: lt gy to m gy to drk gy		0041-1L
				tr Cont : dd		0041-2L
1820.00						0042
				100 Sh/Clst: m gy to drk gy		0042-1L
				tr Cont : dd		0042-2L
1840.00						0043
				100 Sh/Clst: m gy to drk gy		0043-1L



- 7-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1860.00						0044
			100	Sh/Clst: m gy to drk gy		0044-1L
1880.00						0045
			100	Sh/Clst: m gy to drk gy		0045-1L
1900.00						0046
			100	Sh/Clst: m gy to drk gy		0046-1L
1920.00						0047
			100	Sh/Clst: m gy to drk gy		0047-1L
1940.00						0048
			100	Sh/Clst: m gy to drk gy		0048-1L
1960.00						0049
			100	Sh/Clst: m gy to drk gy		0049-1L
			tr	Cont : prp		0049-2L
1980.00						0050
			100	Sh/Clst: m gy to drk gy		0050-1L
2000.00						0051
			60	Sh/Clst: m gy to brn gy		0051-1L
			40	Cont : cem		0051-2L

- 8 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2020.00						0052
			95	Sh/Clst: m gy to brn gy		0052-1L
			5	Cont : prp, dd		0052-2L
2040.00						0053
			95	Sh/Clst: m gy to brn gy		0053-1L
			5	Cont : prp, ns, dd		0053-2L
2060.00						0054
			100	Sh/Clst: m gy to drk gy		0054-1L
			tr	Cont : ns, prp		0054-2L
2080.00						0055
			100	Sh/Clst: m gy to drk gy		0055-1L
			tr	Cont : ns, prp		0055-2L
2100.00						0056
			95	Sh/Clst: m gy to drk gy		0056-1L
			5	Cont : dd, prp, ns		0056-2L
2120.00						0057
			95	Sh/Clst: m gy to drk gy		0057-1L
			5	Cont : dd, prp, ns		0057-2L
2140.00						0058
			90	Sh/Clst: m gy to drk gy		0058-1L
			10	Cont : dd, prp, ns		0058-2L

- 9-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2160.00						0059
				100 Sh/Clst: m gy to drk gy		0059-1L
				tr Cont : dd, prp, ns		0059-2L
2180.00						0060
				100 Sh/Clst: m gy to drk gy		0060-1L
				tr Cont : dd, prp, ns		0060-2L
2200.00						0061
				100 Sh/Clst: m gy to drk gy		0061-1L
				tr Cont : dd, prp, ns		0061-2L
2220.00						0062
				95 Sh/Clst: m gy to drk gy		0062-1L
				5 Cont : dd, prp, ns		0062-2L
2240.00						0063
				100 Sh/Clst: m gy to drk gy		0063-1L
				tr Cont : dd, prp		0063-2L
2260.00						0064
				100 Sh/Clst: m gy to drk gy		0064-1L
				tr Cont : dd, prp		0064-2L
2280.00						0065
				95 Sh/Clst: m gy to drk gy		0065-1L
				5 Cont : dd, prp		0065-2L

- 10-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2300.00						0066	
		90	Sh/Clst:	m gy to drk gy		0066-1L	
		10	Cont	: dd, prp		0066-2L	
2320.00						0067	
		95	Sh/Clst:	m gy to drk gy		0067-1L	
		5	Cont	: dd, prp		0067-2L	
2340.00						0068	
		100	Sh/Clst:	m gy to drk gy		0068-1L	
		tr	Cont	: dd, prp		0068-2L	
2360.00						0069	
		100	Sh/Clst:	m gy to drk gy		0069-1L	
		tr	Cont	: dd, prp		0069-2L	
2380.00						0070	
		100	Sh/Clst:	lt gy to m gy to drk gy		0070-1L	
		tr	Cont	: dd, prp		0070-2L	
2400.00						0071	
		100	Sh/Clst:	m gy to drk gy		0071-1L	
		tr	Cont	: prp		0071-2L	
2420.00						0072	
		95	Sh/Clst:	m gy to drk gy		0072-1L	
		5	Cont	: prp		0072-2L	

- 11-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2440.00						0073
				100 Sh/Clst: m gy, calc		0073-1L
				tr Cont : prp		0073-2L
2460.00						0074
				100 Sh/Clst: m gy to drk gy		0074-1L
				tr Cont : prp		0074-2L
2480.00						0075
				100 Sh/Clst: m gy to drk gy		0075-1L
				tr Marl : or gy		0075-2L
				tr S/Sst : pl brn to m y brn, crs		0075-3L
				tr Cont : prp		0075-4L
2500.00						0076
				100 Sh/Clst: m gy to drk gy		0076-1L
				tr Marl : or gy		0076-2L
				tr Cont : prp		0076-3L
2520.00						0077
				100 Sh/Clst: m gy to drk gy, calc		0077-1L
2540.00						0078
				100 Sh/Clst: m gy to drk gy, calc		0078-1L

- 12 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2560.00						0079
			100	Sh/Clst: m gy to drk gy, calc		0079-1L
2580.00						0080
			60	Sh/Clst: pl ol to m gy, calc		0080-1L
			40	Sh/Clst: drk y brn		0080-2L
2600.00						0081
			50	Sh/Clst: drk y brn		0081-2L
			45	Sh/Clst: pl ol to m gy, calc		0081-1L
			5	Cont : dd		0081-3L
2620.00						0082
			75	Sh/Clst: pl ol to m gy, calc		0082-1L
			25	Sh/Clst: drk y brn		0082-2L
			tr	Cont : dd		0082-3L
2640.00						0083
			60	Sh/Clst: pl ol to m gy		0083-1L
			40	Sh/Clst: drk y brn		0083-2L
			tr	Cont : dd		0083-3L
2660.00						0084
			55	Sh/Clst: pl ol to m gy		0084-1L
			40	Sh/Clst: drk y brn		0084-2L
			5	Cont : ns, prp		0084-3L

- 13-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2680.00						0085
				50 Sh/Clst: pl ol to m gy		0085-1L
				40 Sh/Clst: drk y brn		0085-2L
				10 Cont : dd, prp		0085-3L
2700.00						0086
				90 Sh/Clst: lt gy to gn gy		0086-1L
				10 Cont : dd, prp		0086-2L
				tr Sh/Clst: brn to pl brn		0086-3L
2740.00						0087
				75 Sh/Clst: lt gy to gn gy to gy gn		0087-1L
				25 Sh/Clst: brn pi to pl brn, calc		0087-2L
				tr Ca : w to lt gn gy		0087-3L
				tr Cont : prp		0087-4L
2760.00						0088
				90 Sh/Clst: lt gy to m gy		0088-1L
				10 Sh/Clst: m brn to pl brn, calc		0088-2L
				tr Cont : prp, ns		0088-3L
2780.00						0089
				95 Sh/Clst: lt gy to m gy		0089-1L
				5 Sh/Clst: m brn to pl brn, calc		0089-2L
				tr Cont : prp, ns		0089-3L
2800.00						0090
				95 Sh/Clst: lt gy to m gy		0090-1L
				5 Sh/Clst: m brn to pl brn, calc		0090-2L
				tr Cont : prp, ns		0090-3L

- 14-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2821.00						0091
				95 Sh/Clst: lt gy to m gy		0091-1L
				5 Sh/Clst: m brn to pl brn, calc		0091-2L
				tr Cont : prp, ns		0091-3L
2842.00						0092
				90 Sh/Clst: lt gy to m gy		0092-1L
				10 Cont : dd		0092-3L
				tr Sh/Clst: m brn to pl brn, calc		0092-2L
2860.00						0093
				90 Sh/Clst: lt gy to gn gy to m gy		0093-1L
				10 Sh/Clst: brn to pl brn, calc		0093-2L
2881.00						0094
				60 Sh/Clst: lt gy to gn gy to m gy		0094-1L
				40 Ca : w		0094-2L
				tr Sh/Clst: brn to pl brn		0094-3L
2899.00						0095
				60 Ca : w		0095-2L
				40 Sh/Clst: lt gy to gn gy to m gy		0095-1L
				tr Sh/Clst: brn to pl brn		0095-3L
2920.00						0096
				70 Ca : w		0096-2L
				30 Sh/Clst: lt gy to gn gy to m gy		0096-1L
				tr Sh/Clst: brn to pl brn		0096-3L



- 15-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2941.00						0097
			90	Ca : w		0097-2L
			10	Sh/Clst: lt gy to gn gy to m gy		0097-1L
			tr	Sh/Clst: brn to pl brn		0097-3L
2959.00						0098
			70	Ca : w		0098-2L
			30	Sh/Clst: lt gy to gn gy to m gy		0098-1L
			tr	Sh/Clst: brn to pl brn		0098-3L
2980.00						0099
			65	Ca : w		0099-2L
			30	Sh/Clst: lt gy to gn gy to m gy		0099-1L
			5	Sh/Clst: brn to pl brn		0099-3L
			tr	Cont : prp		0099-4L
3001.00						0100
			80	Ca : w		0100-2L
			20	Sh/Clst: lt gy to gn gy to m gy		0100-1L
			tr	Cont : prp		0100-3L
3019.00						0101
			90	Ca : w		0101-2L
			10	Sh/Clst: m gy		0101-1L
			tr	Sh/Clst: pl brn		0101-3L
			tr	Cont : prp		0101-4L

- 16-

Table 1 : Lithology description for well NOCS 7/8-3.

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3040.00						0102
		95	Ca	:	w	0102-2L
		5	Sh/Clst:	m	gy	0102-1L
		tr	Cont	:	prp	0102-3L
3061.00						0103
		100	Ca	:	w	0103-2L
		tr	Sh/Clst:	m	gy	0103-1L
		tr	Cont	:	prp	0103-3L
3079.00						0104
		100	Ca	:	w	0104-2L
		tr	Sh/Clst:	m	gy	0104-1L
		tr	Cont	:	prp	0104-3L
3100.00						0105
		100	Ca	:	w	0105-2L
		tr	Sh/Clst:	m	gy	0105-1L
		tr	Cont	:	prp	0105-3L
3121.00						0106
		100	Ca	:	w	0106-2L
		tr	Sh/Clst:	m	gy	0106-1L
		tr	Cont	:	prp	0106-3L
3139.00						0107
		100	Ca	:	w	0107-2L
		tr	Sh/Clst:	m	gy	0107-1L
		tr	Cont	:	prp	0107-3L

- 17-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3160.00						0108
			100 Ca	: w		0108-2L
			tr Sh/Clst:	m gy		0108-1L
3180.00						0109
			100 Ca	: w		0109-2L
			tr Sh/Clst:	m gy		0109-1L
3199.00						0110
			100 Ca	: w		0110-2L
			tr Sh/Clst:	m gy		0110-1L
3220.00						0111
			100 Ca	: w		0111-2L
			tr Sh/Clst:	m gy		0111-1L
3240.00						0112
			100 Ca	: w		0112-2L
			tr Sh/Clst:	m gy		0112-1L
3259.00						0113
			100 Ca	: w		0113-1L
3280.00						0114
			100 Ca	: w		0114-1L
			tr Sh/Clst:	lt gy to m gy		0114-2L

- 18-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3301.00						0115
			100 Ca	: w to lt or gy		0115-1L
			tr Sh/Clst:	lt gy to m gy		0115-2L
3319.00						0116
			100 Ca	: w to lt or gy		0116-1L
			tr Sh/Clst:	lt gy to m gy		0116-2L
3340.00						0117
			100 Ca	: w to lt or gy		0117-1L
			tr Sh/Clst:	lt gy to m gy		0117-2L
3361.00						0118
			75 Ca	: w to lt or gy		0118-1L
			25 Sh/Clst:	lt gy to m gy to brn gy		0118-2L
3379.00						0119
			85 Ca	: w to lt or gy		0119-1L
			10 Cont	: ns, prp		0119-3L
			5 Sh/Clst:	lt gy to m gy to brn gy		0119-2L
3400.00						0120
			80 Ca	: w to lt or gy		0120-1L
			20 Sh/Clst:	lt gy to m gy to brn gy		0120-2L
			tr Cont	: ns, prp		0120-3L

- 19-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3421.00						0121
		70	Sh/Clst:	lt gy, mrl		0121-2L
		30	Ca	: w to lt or gy		0121-1L
		tr	Cont	: ns, prp		0121-3L
3439.00						0122
		85	Sh/Clst:	lt gy to m gy, calc		0122-2L
		10	Ca	: w to lt or gy		0122-1L
		5	Cont	: ns, prp		0122-3L
3460.00						0123
		40	Sh/Clst:	lt gy to m gy, calc		0123-2L
		30	Ca	: w to lt or gy		0123-1L
		20	Cont	: dd, prp		0123-3L
		10	Sh/Clst:	m brn to pl brn		0123-4L
3481.00						0124
		50	Ca	: w to lt or gy		0124-1L
		45	Sh/Clst:	lt gy to m gy, calc		0124-2L
		5	Cont	: dd, prp		0124-3L
		tr	Sh/Clst:	m brn to pl brn		0124-4L
3499.00						0125
		80	Sh/Clst:	lt gy to m gy, calc		0125-2L
		10	Ca	: w to lt or gy		0125-1L
		10	Cont	: dd, prp		0125-3L
		tr	Sh/Clst:	m brn to pl brn		0125-4L

- 20-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3520.00						0126	
		85	Sh/Clst:	lt gy to m gy, calc		0126-2L	
		5	Ca	: w to lt or gy		0126-1L	
		5	Cont	: dd, prp		0126-3L	
		5	Sh/Clst:	m brn to pl brn		0126-4L	
3541.00						0127	
		95	Sh/Clst:	m gy to drk gy		0127-2L	
		5	Ca	: w to lt or gy		0127-1L	
		tr	Sh/Clst:	m brn to pl brn		0127-3L	
		tr	Cont			0127-4L	
3559.00						0128	
		95	Sh/Clst:	m gy to drk gy, mic		0128-2L	
		5	Sh/Clst:	m brn to pl brn		0128-3L	
		tr	Ca	: w to lt or gy		0128-1L	
		tr	Cont	: prp		0128-4L	
3580.00						0129	
		85	Sh/Clst:	m gy to drk gy		0129-2L	
		10	Cont	: prp, Coal-ad		0129-4L	
		5	Sh/Clst:	m brn to pl brn		0129-3L	
		tr	Ca	: w to lt or gy		0129-1L	
3601.00						0130	
		90	Sh/Clst:	m gy		0130-1L	
		10	Cont	: prp, Coal-ad		0130-3L	
		tr	Sh/Clst:	m brn to pl brn		0130-2L	

- 21-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3604.00						0131
			90	Sh/Clst: m gy		0131-1L
			5	Sh/Clst: m brn to pl brn		0131-2L
			5	Cont : Coal-ad, prp, dd		0131-3L
3610.00						0132
			95	Sh/Clst: m gy		0132-1L
			5	Cont : prp, fib		0132-3L
			tr	Sh/Clst: m brn to pl brn		0132-2L
3616.00						0133
			100	Sh/Clst: m gy to drk gy		0133-1L
			tr	Sh/Clst: pl brn		0133-2L
			tr	Cont : prp		0133-3L
3622.00						0134
			100	Sh/Clst: m gy to drk gy		0134-1L
			tr	Sh/Clst: pl brn		0134-2L
			tr	Cont : prp		0134-3L
3628.00						0135
			100	Sh/Clst: m gy to drk gy		0135-1L
			tr	Sh/Clst: pl brn		0135-2L
			tr	Cont : prp		0135-3L
3634.00						0136
			95	Sh/Clst: m gy to drk gy		0136-1L
			5	Cont : prp, ns		0136-3L
			tr	Sh/Clst: pl brn		0136-2L

- 22-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3640.00						0137
			100	Sh/Clst: m gy to drk gy to brn blk		0137-1L
			tr	Cont : prp		0137-2L
3646.00						0138
			100	Sh/Clst: m gy to drk gy to brn blk		0138-1L
			tr	Cont : prp		0138-2L
3652.00						0139
			85	Sh/Clst: drk gy to brn blk		0139-1L
			15	Sh/Clst: m gy		0139-2L
			tr	Cont : prp		0139-3L
3658.00						0140
			80	Sh/Clst: drk gy to brn blk		0140-1L
			20	Sh/Clst: m gy		0140-2L
			tr	Cont : prp		0140-3L
3664.00						0141
			80	Sh/Clst: m gy		0141-2L
			20	Sh/Clst: drk gy to brn blk		0141-1L
			tr	Cont : prp		0141-3L
3670.00						0142
			90	Sh/Clst: m gy		0142-2L
			10	Sh/Clst: drk gy to brn blk		0142-1L
			tr	Cont : prp		0142-3L



- 23 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3676.00						0143
			100	Sh/Clst: m gy to drk gy to brn blk		0143-1L
				tr Cont : prp		0143-2L
3682.00						0144
			100	Sh/Clst: m gy to drk gy to brn blk		0144-1L
				tr Ca : lt or gy		0144-2L
				tr Cont : prp, dd		0144-3L
3688.00						0145
			100	Sh/Clst: drk gy		0145-1L
				tr Cont : prp, Coal-ad		0145-2L
3694.00						0146
			100	Sh/Clst: drk gy		0146-1L
				tr Cont : prp, Coal-ad		0146-2L
3700.00						0147
			100	Sh/Clst: drk gy to brn blk, mic		0147-1L
				tr Cont : prp		0147-2L
3706.00						0148
			100	Sh/Clst: m gy to drk gy to brn blk, mic		0148-1L
				tr Cont : prp		0148-2L

- 24 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3712.00						0149
		100	Sh/Clst: m gy to drk gy to brn blk, mic tr Cont : prp			0149-1L 0149-2L
3724.00						0150
		85	Sh/Clst: m gy to drk gy to brn blk, mic			0150-1L
		15	S/Sst : lt gy to lt brn gy, f, slt, kln			0150-2L
			tr Cont : prp			0150-3L
3730.00						0151
		80	Sh/Clst: m gy to drk gy to brn blk, mic			0151-1L
		15	S/Sst : lt gy to lt brn gy, f, slt, kln, pyr			0151-2L
		5	Slstst : gy brn to dsk brn			0151-3L
			tr Cont : prp			0151-4L
3731.10	ccp					0152
		100	S/Sst : w to lt gy to m gy, crs, hd			0152-1L
3736.15	ccp					0153
		100	S/Sst : lt gy to m gy to drk y brn, crs, hd			0153-1L
3739.50	ccp					0154
		100	S/Sst : w to lt gy, crs, hd			0154-1L
			tr Sh/Clst: drk gy to brn blk			0154-2L

- 25-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3745.00	ccp					0155
		100	S/Sst	:	drk y brn to pl y brn, crs, hd	0155-1L
3749.70	ccp					0156
		100	S/Sst	:	drk y brn to lt gy, crs, hd	0156-1L
3755.00	ccp					0157
		100	S/Sst	:	drk y brn to lt gy, crs, hd	0157-1L
3760.00	ccp					0158
		100	S/Sst	:	drk y brn to lt gy, crs, hd	0158-1L
3766.10	ccp					0159
		100	Sltst	:	w to lt bl gy, hd, mic	0159-1L
3775.00						0160
		85	Sh/Clst:	m gy to drk gy to brn blk		0160-1L
		15	S/Sst	: w, f, kln, l		0160-2L
			tr Ca	: w to lt or		0160-3L
			tr Cont	: prp		0160-4L
3784.00						0161
		95	Sh/Clst:	m gy to drk gy to brn blk		0161-1L
		5	Sh/Clst:	m brn to pl brn		0161-2L

- 26-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3793.00						0162
		85	Sh/Clst: m gy to drk gy to brn blk			0162-1L
		15	S/Sst : w, f, kln, l			0162-2L
		tr	Cont : prp			0162-3L
3805.00						0163
		95	Sh/Clst: m gy to drk gy to brn blk			0163-1L
		5	S/Sst : w, f, kln, l			0163-2L
		tr	Cont : prp			0163-3L
3814.00						0164
		95	Sh/Clst: m gy to drk gy to brn blk			0164-1L
		5	Sh/Clst: m brn to pl brn			0164-3L
		tr	S/Sst : w, f, kln, l			0164-2L
		tr	Cont : prp			0164-4L
3826.00						0165
		65	Sh/Clst: m gy to drk gy to brn blk			0165-1L
		30	S/Sst : w, f, kln, l			0165-2L
		5	Sh/Clst: m brn to pl brn, mic			0165-3L
		tr	Cont : prp			0165-4L
3835.00						0166
		60	Sh/Clst: m gy to drk gy to brn blk			0166-1L
		25	S/Sst : w, f, kln, l			0166-2L
		15	Sh/Clst: m brn to pl brn, calc			0166-3L
		tr	Cont : prp, dd			0166-4L

- 27-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3844.00						0167
				50 Sh/Clst: m gy to drk gy to brn blk		0167-1L
				35 S/Sst : w, f, kln, l		0167-2L
				10 Sh/Clst: m brn to pl brn, calc		0167-3L
				5 Cont : prp, dd		0167-4L
3856.00						0168
				85 Sh/Clst: m gy to drk gy to brn blk		0168-1L
				10 S/Sst : w, f, kln, l		0168-2L
				5 Sh/Clst: m brn to pl brn		0168-3L
				tr Cont : prp, dd		0168-4L
3865.00						0169
				90 Sh/Clst: m gy to drk gy to brn blk		0169-1L
				5 S/Sst : w, f, kln, l		0169-2L
				5 Sh/Clst: m brn to pl brn		0169-3L
				tr Cont : prp, dd		0169-4L
3874.00						0170
				95 Sh/Clst: m gy to drk gy to brn blk		0170-1L
				5 Sh/Clst: m brn to pl brn		0170-3L
				tr S/Sst : w, f, kln, l		0170-2L
				tr Cont : prp, dd		0170-4L
3886.00						0171
				50 Sh/Clst: m gy to drk gy to brn blk		0171-1L
				25 Sh/Clst: m brn to pl brn		0171-3L
				20 S/Sst : w to lt gy, f, kln, l		0171-2L
				5 Cont : prp, dd, Coal-ad		0171-4L

- 28-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3895.00						0172
				50 Sh/Clst: m gy to drk gy to brn blk		0172-1L
				25 Marl : lt brn		0172-5L
				10 S/Sst : w to lt gy, f, kln, l		0172-2L
				10 Sh/Clst: m brn to pl brn		0172-3L
				5 Cont : prp, dd, Coal-ad		0172-4L
3904.00						0173
				85 Sh/Clst: m gy to drk gy to brn blk		0173-1L
				10 Marl : lt brn to m brn		0173-2L
				5 Sh/Clst: m brn to pl brn, mic		0173-3L
				tr S/Sst : w, f, kln		0173-4L
				tr Cont : prp		0173-5L
3916.00						0174
				85 Sh/Clst: m gy to drk gy to brn blk		0174-1L
				10 Marl : lt brn to m brn		0174-2L
				5 Sh/Clst: m brn to pl brn, mic		0174-3L
				tr Cont : prp		0174-4L
3925.00						0175
				55 Sh/Clst: m gy to drk gy to brn blk		0175-1L
				30 S/Sst : w to gy pi, f, kln		0175-5L
				10 Sh/Clst: m brn to pl brn, mic		0175-3L
				5 Marl : lt brn to m brn		0175-2L
				tr Cont : prp		0175-4L
3934.00						0176
				75 Sh/Clst: m gy to drk gy to brn blk		0176-1L
				10 Sh/Clst: m brn to pl brn, mic		0176-3L
				10 S/Sst : w to gy pi, f, kln		0176-5L
				5 Marl : lt brn to m brn		0176-2L
				tr Cont : prp		0176-4L

- 29 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3946.00						0177
				45 Sh/Clst: m gy to drk gy		0177-1L
				35 S/Sst : w to gy pi, f, kln, l		0177-5L
				10 Sh/Clst: m brn to pl brn, mic		0177-3L
				10 Cont : prp, Coal-ad		0177-4L
				tr Marl : lt brn to m brn		0177-2L
3955.00						0178
				45 S/Sst : w to gy pi, f, kln, l		0178-5L
				40 Sh/Clst: m gy to drk gy		0178-1L
				10 Marl : lt brn to m brn		0178-2L
				5 Sh/Clst: m brn to pl brn, mic		0178-3L
				tr Cont : prp, Coal-ad		0178-4L
3964.00						0179
				50 Sh/Clst: m gy to drk gy		0179-1L
				20 Marl : lt brn to m brn		0179-2L
				20 S/Sst : w to gy pi, f, kln, l		0179-5L
				10 Sh/Clst: m brn to pl brn, mic		0179-3L
				tr Cont : prp, Coal-ad		0179-4L
3976.00						0180
				50 Sh/Clst: m gy to drk gy		0180-1L
				30 Sh/Clst: m brn to pl brn, mic		0180-3L
				20 Marl : lt brn to m brn		0180-2L
				tr Cont : prp, Coal-ad		0180-4L
				tr S/Sst : w, f, kln		0180-5L
3985.00						0181
				60 Sh/Clst: m gy to drk gy		0181-1L
				20 S/Sst : w to gy pi to lt brn, f, kln		0181-5L
				10 Marl : lt brn to m brn		0181-2L
				10 Sh/Clst: m brn to pl brn, mic		0181-3L
				tr Cont : prp, Coal-ad		0181-4L

- 30-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3994.00						0182	
		60	Sh/Clst:	m gy to drk gy, calc		0182-1L	
		25	S/Sst	: w to gy pi to lt brn, f, kln		0182-5L	
		10	Sh/Clst:	m brn to pl brn, mic		0182-3L	
		5	Marl	: lt brn to m brn		0182-2L	
		tr	Cont	: prp		0182-4L	
4006.00						0183	
		40	S/Sst	: w to gy pi, f, kln, mic, l		0183-5L	
		30	Sh/Clst:	m gy to drk gy, calc		0183-1L	
		30	Sh/Clst:	m brn to pl brn, mic		0183-3L	
		tr	Marl	: lt brn to m brn		0183-2L	
		tr	Cont	: prp		0183-4L	
4024.00						0184	
		60	S/Sst	: w to gy pi, f, kln, mic, l		0184-4L	
		30	Sh/Clst:	m gy to drk gy, calc		0184-1L	
		10	Sh/Clst:	m brn to pl brn, mic		0184-2L	
		tr	Cont	: prp		0184-3L	
4036.00						0185	
		65	S/Sst	: gy red to gy pi, crs, l, kln		0185-4L	
		20	Sh/Clst:	m gy to drk gy, calc		0185-1L	
		15	Sh/Clst:	m brn to pl brn, mic		0185-2L	
		tr	Cont	: prp		0185-3L	
4045.00						0186	
		75	S/Sst	: gy red to gy pi, crs, l, kln		0186-3L	
		15	Sh/Clst:	m gy to drk gy		0186-1L	
		10	Sh/Clst:	m brn to pl brn, mic		0186-2L	



- 31-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4054.00						0187
				75 S/Sst : gy red to gy pi, crs, l, kln		0187-3L
				20 Sh/Clst: m gy to drk gy		0187-1L
				5 Sh/Clst: m brn to pl brn, mic		0187-2L
4066.00						0188
				75 S/Sst : gy red to gy pi, crs, l, kln		0188-3L
				20 Sh/Clst: m gy to drk gy		0188-1L
				5 Sh/Clst: m brn to pl brn, mic		0188-2L
4075.00						0189
				80 S/Sst : gy red to gy pi, crs, l, kln		0189-3L
				15 Sh/Clst: m gy to drk gy		0189-1L
				5 Sh/Clst: m brn to pl brn, mic		0189-2L
4084.00						0190
				75 S/Sst : gy red to gy pi, crs, l		0190-1L
				15 Sh/Clst: m gy to drk gy		0190-2L
				10 Sh/Clst: m brn to pl brn, mic		0190-3L
				tr Cont : prp		0190-4L
4099.00						0191
				90 S/Sst : gy red to gy pi, crs, l		0191-1L
				10 Sh/Clst: m gy to drk gy		0191-2L
				tr Sh/Clst: m brn to pl brn, mic		0191-3L
4105.00						0192
				100 S/Sst : gy red to gy pi, crs, l		0192-1L
				tr Sh/Clst: m gy to drk gy		0192-2L
				tr Sh/Clst: m brn to pl brn, mic		0192-3L

- 32 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4114.00						0193
			100	S/Sst : gy red to gy pi, crs, 1		0193-1L
				tr Sh/Clst: m gy to drk gy		0193-2L
				tr Sh/Clst: m brn to pl brn, mic		0193-3L
4126.00						0194
			95	S/Sst : gy red to gy pi, crs, 1		0194-1L
				5 Sh/Clst: m gy to drk gy		0194-2L
				tr Sh/Clst: m brn to pl brn, mic		0194-3L
4135.00						0195
			90	S/Sst : gy red to gy pi, crs, 1		0195-1L
				5 Sh/Clst: m gy to drk gy		0195-2L
				5 Sh/Clst: m brn to pl brn, mic		0195-3L
4144.00						0196
			90	S/Sst : gy red to gy pi, crs, 1		0196-1L
				5 Sh/Clst: m gy to drk gy		0196-2L
				5 Sh/Clst: m brn to pl brn, mic		0196-3L
4156.00						0197
			95	S/Sst : gy red to gy pi, crs, 1		0197-1L
				5 Sh/Clst: m gy to drk gy		0197-2L
				tr Sh/Clst: m brn to pl brn, mic		0197-3L
				tr Cont : prp		0197-4L
4165.00						0198
			90	S/Sst : gy red to gy pi, crs, 1		0198-1L
				5 Sh/Clst: m gy to drk gy		0198-2L
				5 Sh/Clst: m brn to pl brn, mic		0198-3L

- 33 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4174.00						0199
				90 S/Sst : gy red to gy pi, crs, l		0199-1L
				5 Sh/Clst: m gy to drk gy		0199-2L
				5 Sh/Clst: m brn to pl brn, mic		0199-3L
4195.00						0200
				45 S/Sst : gy red to gy pi, crs, l		0200-1L
				25 Sh/Clst: m gy to drk gy		0200-2L
				25 Sh/Clst: m brn to pl brn, mic		0200-3L
				5 Cont : fib		0200-4L
4204.00						0213
				80 S/Sst : gy red to gy pi, crs, l		0213-1L
				10 Sh/Clst: m gy to drk gy		0213-2L
				10 Sh/Clst: m brn to pl brn, mic		0213-3L
				tr Cont : fib		0213-4L
4216.00						0201
				60 S/Sst : gy red to gy pi, crs, l, kln		0201-1L
				20 Sh/Clst: m gy to drk gy		0201-2L
				15 Sh/Clst: m brn to pl brn, mic		0201-3L
				5 Cont : fib, Coal-ad		0201-4L
4225.00						0202
				50 S/Sst : gy red to gy pi, crs, l, kln		0202-1L
				25 Sh/Clst: m gy to drk gy		0202-2L
				15 Sh/Clst: m brn to pl brn, mic		0202-3L
				10 Cont : fib, Coal-ad		0202-4L

- 34 -

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
4234.00						0203
		40	S/Sst	: w to gy pi to gy red, crs, 1, kln		0203-1L
		30	Sh/Clst:	m gy to drk gy		0203-2L
		15	Sh/Clst:	m brn to pl brn, mic		0203-3L
		15	Cont	: fib, Coal-ad		0203-4L
4246.00						0204
		50	Sh/Clst:	m gy to drk gy		0204-2L
		30	S/Sst	: w to gy pi to gy red, crs, 1, kln		0204-1L
		10	Sh/Clst:	m brn to pl brn, mic		0204-3L
		10	Cont	: fib, Coal-ad		0204-4L
4255.00						0205
		50	S/Sst	: w to gy pi to gy red, crs, 1, kln		0205-1L
		35	Sh/Clst:	m gy to drk gy		0205-2L
		10	Sh/Clst:	m brn to pl brn, mic		0205-3L
		5	Cont	: fib, Coal-ad		0205-4L
4264.00						0206
		50	Sh/Clst:	m gy to drk gy		0206-2L
		25	Sh/Clst:	m brn to pl brn, mic		0206-3L
		20	S/Sst	: w to gy pi to gy red, crs, 1, kln		0206-1L
		5	Cont	: fib, Coal-ad		0206-4L
4276.00			Zech	U.Permian		0207
		60	Sh/Clst:	m gy to drk gy		0207-2L
		30	S/Sst	: w to gy pi to gy red, crs, 1, kln		0207-1L
		10	Sh/Clst:	m brn to pl brn, mic		0207-3L
		tr	Cont	: fib, Coal-ad		0207-4L

- 35-

Table 1 : Lithology description for well NOCS 7/8-3

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4285.00						0208
				60 Sh/Clst: m gy to drk gy		0208-2L
				25 Sh/Clst: m brn to pl brn, mic		0208-3L
				15 S/Sst : w to gy pi to gy red, crs, l, kln		0208-1L
				tr Cont : fib, Coal-ad		0208-4L
4297.00						0209
				85 Sh/Clst: lt gy to m gy to drk gy		0209-2L
				15 Sh/Clst: m brn to pl brn, mic		0209-3L
				tr S/Sst : w to gy pi to gy red, crs, l, kln		0209-1L
				tr Cont : fib, Coal-ad		0209-4L
4306.00						0210
				90 Sh/Clst: lt gy to m gy to drk gy		0210-2L
				10 Sh/Clst: m brn to pl brn, mic		0210-3L
				tr S/Sst : w to gy pi to gy red, crs, l, kln		0210-1L
				tr Cont : fib, Coal-ad		0210-4L
4315.00						0211
				80 Sh/Clst: lt gy to m gy to drk gy		0211-2L
				15 Sh/Clst: m brn to pl brn, mic		0211-3L
				5 Other : w, evap		0211-5L
				tr S/Sst : w to gy red, crs, l		0211-1L
				tr Cont : fib, Coal-ad		0211-4L
4321.00						0212
				100 Sh/Clst: m gy to drk gy to brn blk		0212-1L
				tr Sh/Clst: m brn to pl brn, mic		0212-2L
				tr Other : w, evap		0212-3L

Table 2 : Rock-Eval table for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2680.00	cut	Sh/Clst: drk y brn	0.46	5.37	2.63	2.04	4.17	129	63	5.8	0.08	431	0085-2L
2881.00	cut	Ca : w	0.03	0.05	0.65	0.08	0.10	50	650	0.1	0.38	420	0094-2L
3481.00	cut	Ca : w to lt or gy	0.01	-	0.21	-	0.03	-	700	-	1.00	-	0124-1L
3580.00	cut	Sh/Clst: m gy to drk gy	0.04	0.06	0.19	0.32	0.20	30	95	0.1	0.40	374	0129-2L
3616.00	cut	Sh/Clst: m gy to drk gy	0.03	0.01	0.13	0.08	0.17	6	76	-	0.75	396	0133-1L
3622.00	cut	Sh/Clst: m gy to drk gy	0.03	0.02	0.14	0.14	0.16	13	88	0.1	0.60	413	0134-1L
3628.00	cut	Sh/Clst: m gy to drk gy	0.04	0.02	0.08	0.25	0.18	11	44	0.1	0.67	409	0135-1L
3634.00	cut	Sh/Clst: m gy to drk gy	0.05	0.03	0.11	0.27	0.17	18	65	0.1	0.63	-	0136-1L
3640.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.71	5.60	0.19	29.47	1.99	281	10	6.3	0.11	442	0137-1L
3646.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.90	3.94	0.23	17.13	1.59	248	14	4.8	0.19	442	0138-1L
3652.00	cut	Sh/Clst: drk gy to brn blk	9.75	29.73	0.52	57.17	7.31	407	7	39.5	0.25	442	0139-1L
3658.00	cut	Sh/Clst: drk gy to brn blk	9.41	30.03	0.65	46.20	7.13	421	9	39.4	0.24	440	0140-1L
3664.00	cut	Sh/Clst: m gy	0.27	0.17	0.23	0.74	0.29	59	79	0.4	0.61	436	0141-2L
3670.00	cut	Sh/Clst: m gy	0.14	0.04	0.18	0.22	0.21	19	86	0.2	0.78	416	0142-2L
3676.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.18	0.40	0.11	3.64	0.44	91	25	0.6	0.31	443	0143-1L

Table 2 : Rock-Eval table for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3682.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.20	0.46	0.13	3.54	0.49	94	27	0.7	0.30	441	0144-1L
3688.00	cut	bulk	0.14	0.25	0.16	1.56	0.36	69	44	0.4	0.36	447	0145-0B
3694.00	cut	Sh/Clst: drk gy	0.10	0.13	0.09	1.44	0.24	54	38	0.2	0.43	443	0146-1L
3706.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.11	0.23	0.10	2.30	0.35	66	29	0.3	0.32	443	0148-1L
3724.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.38	0.91	0.08	11.38	0.62	147	13	1.3	0.29	448	0150-1L
3731.10	ccp	S/Sst : w to lt gy to m gy	1.69	0.63	0.24	2.63	0.46	137	52	2.3	0.73	427	0152-1L
3736.15	ccp	S/Sst : lt gy to m gy to drk y brn	6.64	2.56	0.18	14.22	1.00	256	18	9.2	0.72	424	0153-1L
3739.50	ccp	S/Sst : w to lt gy	0.11	0.05	0.10	0.50	0.07	71	143	0.2	0.69	389	0154-1L
3745.00	ccp	S/Sst : drk y brn to pl y brn	2.99	0.92	0.27	3.41	0.60	153	45	3.9	0.76	417	0155-1L
3749.70	ccp	S/Sst : drk y brn to lt gy	3.94	0.90	0.13	6.92	0.52	173	25	4.8	0.81	420	0156-1L
3755.00	ccp	S/Sst : drk y brn to lt gy	4.63	1.29	0.13	9.92	0.75	172	17	5.9	0.78	404	0157-1L
3760.00	ccp	S/Sst : drk y brn to lt gy	3.42	0.87	0.11	7.91	0.50	174	22	4.3	0.80	411	0158-1L
3766.10	ccp	Sltst : w to lt bl gy	0.08	0.13	-	-	0.03	433	-	0.2	0.38	461	0159-1L
3835.00	cut	Sh/Clst: m brn to pl brn	0.38	0.13	0.88	0.15	0.25	52	352	0.5	0.75	327	0166-3L

Table 2 : Rock-Eval table for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3844.00	cut	S/Sst : w	0.18	0.10	0.30	0.33	0.13	77	231	0.3	0.64	416	0167-2L
3856.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.60	0.59	0.08	7.38	0.54	109	15	1.2	0.50	447	0168-1L
3895.00	cut	Marl : lt brn	0.08	0.02	0.26	0.08	0.08	25	325	0.1	0.80	451	0172-5L
3925.00	cut	S/Sst : w to gy pi	0.09	0.01	0.12	0.08	0.06	17	200	0.1	0.90	380	0175-5L
3946.00	cut	Sh/Clst: m gy to drk gy	1.25	1.55	0.25	6.20	1.00	155	25	2.8	0.45	446	0177-1L
4024.00	cut	S/Sst : w to gy pi	0.12	0.02	0.11	0.18	0.08	25	138	0.1	0.86	450	0184-4L
4084.00	cut	Sh/Clst: m gy to drk gy	1.63	2.36	0.13	18.15	1.20	197	11	4.0	0.41	449	0190-2L
4084.00	cut	Sh/Clst: m brn to pl brn	1.15	0.23	-	-	0.23	100	-	1.4	0.83	339	0190-3L
4165.00	cut	S/Sst : gy red to gy pi	0.26	0.03	-	-	0.08	38	-	0.3	0.90	353	0198-1L
4174.00	cut	S/Sst : gy red to gy pi	0.24	0.02	0.08	0.25	0.07	29	114	0.3	0.92	-	0199-1L
4195.00	cut	Sh/Clst: m gy to drk gy	0.88	1.38	0.16	8.63	0.87	159	18	2.3	0.39	446	0200-2L
4195.00	cut	Sh/Clst: m brn to pl brn	0.33	0.12	0.26	0.46	0.12	100	217	0.5	0.73	343	0200-3L
4234.00	cut	Sh/Clst: m gy to drk gy	1.22	0.88	0.13	6.77	0.69	128	19	2.1	0.58	448	0203-2L
4234.00	cut	Sh/Clst: m brn to pl brn	0.99	0.22	0.21	1.05	0.22	100	95	1.2	0.82	338	0203-3L



Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2680.00	cut	Sh/Clst: drk y brn	12.76	31.08	45.30	10.86	5.37	0085-2L
3640.00	cut	Sh/Clst: m gy to drk gy to brn blk	5.37	21.96	41.17	31.49	5.60	0137-1L
3646.00	cut	Sh/Clst: m gy to drk gy to brn blk	4.20	17.95	38.23	39.62	3.94	0138-1L
3652.00	cut	Sh/Clst: drk gy to brn blk	6.87	36.19	46.51	10.43	29.73	0139-1L
3658.00	cut	Sh/Clst: drk gy to brn blk	6.99	34.98	46.88	11.16	30.03	0140-1L
3670.00	cut	Sh/Clst: m gy	9.86	40.60	44.02	5.52	0.04	0142-2L
3682.00	cut	Sh/Clst: m gy to drk gy to brn blk	9.45	35.45	49.52	5.59	0.46	0144-1L
3731.10	ccp	S/Sst : w to lt gy to m gy	4.58	35.92	49.60	9.89	0.63	0152-1L
3736.15	ccp	S/Sst : lt gy to m gy to drk y brn	1.60	13.92	37.89	46.58	2.56	0153-1L
3739.50	ccp	S/Sst : w to lt gy	8.58	36.43	48.30	6.69	0.05	0154-1L
3745.00	ccp	S/Sst : drk y brn to pl y brn	2.42	17.32	37.38	42.88	0.92	0155-1L
3755.00	ccp	S/Sst : drk y brn to lt gy	2.85	25.66	52.99	18.50	1.29	0157-1L
3835.00	cut	Sh/Clst: m brn to pl brn	8.80	31.12	52.43	7.65	0.13	0166-3L
3844.00	cut	S/Sst : w	7.76	31.62	53.28	7.34	0.10	0167-2L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3946.00	cut	Sh/Clst: m gy to drk gy	9.21	16.45	42.90	31.43	1.55	0177-1L
4165.00	cut	S/Sst : gy red to gy pi	6.14	32.63	50.38	10.85	0.03	0198-1L
4195.00	cut	Sh/Clst: m gy to drk gy	6.48	0.74	62.36	30.42	1.38	0200-2L
4234.00	cut	Sh/Clst: m brn to pl brn	7.18	28.62	50.32	13.88	0.22	0203-3L

Table 4 a: Weight of EOM and Chromatographic Fraction for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
3646.00	cut	Sh/Clst: m gy to drk gy to brn blk	6.4	11.8	4.3	2.3	0.9	4.3	6.6	5.2	1.32	0138-1L
3658.00	cut	Sh/Clst: drk gy to brn blk	3.9	13.9	5.3	3.2	1.4	4.0	8.5	5.4	2.16	0140-1L
3731.10	ccp	S/Sst : w to lt gy to m gy	9.1	29.4	14.8	7.5	0.8	6.3	22.3	7.1	0.59	0152-1L
3736.15	ccp	S/Sst : lt gy to m gy to drk y brn	9.9	63.2	38.5	16.6	2.6	5.5	55.1	8.1	0.85	0153-1L
3745.00	ccp	S/Sst : drk y brn to pl y brn	8.6	22.2	9.7	6.1	1.0	5.4	15.8	6.4	0.53	0155-1L
3755.00	ccp	S/Sst : drk y brn to lt gy	9.4	22.0	9.4	5.8	2.8	4.0	15.2	6.8	0.79	0157-1L
4234.00	com	Composite sample - see table 4 e	4.4	8.5	3.6	1.7	0.9	2.3	5.3	3.2	0.63	0218-0B

Table 4 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3646.00	cut Sh/Clst: m gy to drk gy to brn blk	1829	666	356	139	666	1023	806	0138-1L
3658.00	cut Sh/Clst: drk gy to brn blk	3527	1345	812	355	1015	2157	1370	0140-1L
3731.10	ccp S/Sst : w to lt gy to m gy	3213	1617	819	87	688	2437	775	0152-1L
3736.15	ccp S/Sst : lt gy to m gy to drk y brn	6364	3877	1671	261	553	5548	815	0153-1L
3745.00	ccp S/Sst : drk y brn to pl y brn	2572	1123	706	115	625	1830	741	0155-1L
3755.00	ccp S/Sst : drk y brn to lt gy	2350	1004	619	299	427	1623	726	0157-1L
4234.00	com Composite sample - see table 4 e	1918	812	383	203	519	1196	722	0218-0B

Table 4 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3646.00	cut	Sh/Clst: m gy to drk gy to brn blk	138.60	50.51	27.01	10.57	50.51	77.52	61.08	0138-1L
3658.00	cut	Sh/Clst: drk gy to brn blk	163.33	62.28	37.60	16.45	47.00	99.88	63.45	0140-1L
3731.10	ccp	S/Sst : w to lt gy to m gy	544.60	274.15	138.93	14.82	116.70	413.08	131.52	0152-1L
3736.15	ccp	S/Sst : lt gy to m gy to drk y brn	748.77	456.13	196.67	30.80	65.16	652.80	95.97	0153-1L
3745.00	ccp	S/Sst : drk y brn to pl y brn	485.36	212.07	133.37	21.86	118.06	345.44	139.92	0155-1L
3755.00	ccp	S/Sst : drk y brn to lt gy	297.52	127.12	78.44	37.87	54.09	205.56	91.96	0157-1L
4234.00	com	Composite sample - see table 4 e	304.56	128.99	60.91	32.25	82.41	189.90	114.66	0218-0B

Table 4 d: Composition of material extracted from the rock (%) for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	Aro	Non-HC	
3646.00	cut	Sh/Clst: m gy to drk gy to brn blk	36.44	19.49	7.63	36.44	55.93	44.07	186.96	126.92	0138-1L
3658.00	cut	Sh/Clst: drk gy to brn blk	38.13	23.02	10.07	28.78	61.15	38.85	165.63	157.41	0140-1L
3731.10	ccp	S/Sst : w to lt gy to m gy	50.34	25.51	2.72	21.43	75.85	24.15	197.33	314.08	0152-1L
3736.15	ccp	S/Sst : lt gy to m gy to drk y brn	60.92	26.27	4.11	8.70	87.18	12.82	231.93	680.25	0153-1L
3745.00	ccp	S/Sst : drk y brn to pl y brn	43.69	27.48	4.50	24.32	71.17	28.83	159.02	246.87	0155-1L
3755.00	ccp	S/Sst : drk y brn to lt gy	42.73	26.36	12.73	18.18	69.09	30.91	162.07	223.53	0157-1L
4234.00	com	Composite sample - see table 4 e	42.35	20.00	10.59	27.06	62.35	37.65	211.76	165.63	0218-0B

Table 4 e: List of composite samples appearing in the extraction tables for well NOCS 7/8-3

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>
4225.00	4234.00	com	0218-0B is composed of:	4225.00	cut	Sh/Clst: m brn to pl brn, mic	0202-3L
				4234.00	cut	Sh/Clst: m brn to pl brn, mic	0203-3L

Table 5 : Saturated Hydrocarbon Ratios for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
3646.00	cut	Sh/Clst: m gy to drk gy to brn blk	0.61	1.67	0.53	0.44	0.99	0138-1L
3658.00	cut	Sh/Clst: drk gy to brn blk	0.64	1.69	0.55	0.44	1.02	0140-1L
3731.10	ccp	S/Sst : w to lt gy to m gy	0.98	1.29	0.81	0.66	1.02	0152-1L
3736.15	ccp	S/Sst : lt gy to m gy to drk y brn	0.82	1.33	0.69	0.56	1.05	0153-1L
3745.00	ccp	S/Sst : drk y brn to pl y brn	0.92	1.28	0.76	0.63	0.98	0155-1L
3755.00	ccp	S/Sst : drk y brn to lt gy	0.83	1.17	0.70	0.59	1.01	0157-1L
4234.00	com	bulk	0.72	2.03	0.60	0.45	1.22	0218-0B



Table 6 : Aromatic Hydrocarbon Ratios for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3646.00	cut Sh/Clst: m gy to drk gy to brn blk	0.87	1.80	0.07	0.61	0.56	0.58	0.74	-	-	-	0138-1L
3658.00	cut Sh/Clst: drk gy to brn blk	0.87	1.89	0.07	0.66	0.60	0.62	0.76	-	-	-	0140-1L
3731.10	ccp S/Sst : w to lt gy to m gy	-	-	-	0.76	0.86	0.83	0.92	-	-	-	0152-1L
3736.15	ccp S/Sst : lt gy to m gy to drk y brn	-	-	-	0.79	0.93	0.89	0.96	-	-	-	0153-1L
3745.00	ccp S/Sst : drk y brn to pl y brn	-	-	-	0.80	0.80	0.81	0.88	-	-	-	0155-1L
3755.00	ccp S/Sst : drk y brn to lt gy	-	-	-	0.78	0.96	0.92	0.98	-	-	-	0157-1L
4234.00	com bulk	-	1.36	-	0.74	0.63	0.67	0.78	-	-	-	0218-0B

Table 7 : Thermal Maturity Data for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T <sub>max</sub> (°C)	Sample
1040.00	cut bulk	0.35	10	0.06	3-4	-	-	0003-0B
1300.00	cut bulk	0.36	8	0.06	3	-	-	0016-0B
1600.00	cut bulk	0.34	20	0.04	3-4	-	-	0031-0B
1900.00	cut bulk	0.38	20	0.05	4	-	-	0046-0B
2060.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	5.0	-	0054-1L
2200.00	cut bulk	0.37	20	0.04	4	-	-	0061-0B
2400.00	cut bulk	0.36	20	0.04	4	-	-	0071-0B
2460.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	4.5-5.0	-	0074-1L
2600.00	cut bulk	0.38	20	0.04	3-4	-	-	0081-0B
2680.00	cut Sh/Clst: drk y brn	-	-	-	-	5.0	431	0085-2L
2821.00	cut bulk	0.45	10	0.05	3-4	-	-	0091-0B
2821.00	cut Sh/Clst: lt gy to m gy	-	-	-	-	5.0-5.5	-	0091-1L
3421.00	cut bulk	0.45	3	0.08	3-4	-	-	0121-0B
3580.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	5.0(??)	374	0129-2L

Table 7 : Thermal Maturity Data for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T <sub>max</sub> (°C)	Sample
3616.00	cut bulk	NDP	-	-	0	-	-	0133-0B
3640.00	cut Sh/Clst: m gy to drk gy to brn blk	-	-	-	-	6.5(?)	442	0137-1L
3658.00	cut Sh/Clst: drk gy to brn blk	-	-	-	-	6.5-7.0(?)	440	0140-1L
3694.00	cut bulk	0.43	1	0.00	0	-	-	0146-0B
3730.00	cut bulk	0.36	2	0.01	4	-	-	0151-0B
3856.00	cut Sh/Clst: m gy to drk gy to brn blk	-	-	-	-	7.0(?)	447	0168-1L
3886.00	cut bulk	NDP	-	-	0	-	-	0171-0B
4006.00	cut bulk	NDP	-	-	0	-	-	0183-0B
4084.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	NDP	449	0190-2L
4195.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	NDP	446	0200-2L
4225.00	cut bulk	0.46	5	0.06	0	-	-	0202-0B
4234.00	cut Sh/Clst: m brn to pl brn	-	-	-	-	NDP	338	0203-3L

Table 8 : Visual Kerogen Composition Data for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	LIP %	Am	Lo	Sip / Pol	Cu	Rel	Al	Din	Acr	Bit	INERT %	Fus	Sem	Int	Mic	Sc	Bir	VIT %	Tell	Coll	Vit	Am	Bit	Sample
2060.00	cut	Sh/Clst: m gy to drk gy	85	*	*	**		*					TR	*						15	**	*				0054-1L
2460.00	cut	Sh/Clst: m gy to drk gy	40	*	*	**		*	?				15	*	*					35	**	*	*			0074-1L
2680.00	cut	Sh/Clst: drk y brn	100	**		*		*	*				TR		*					TR	*		*			0085-2L
2821.00	cut	Sh/Clst: lt gy to m gy	NDP		**	**		*					NDP		*					NDP			*			0091-1L
3580.00	cut	Sh/Clst: m gy to drk gy	NDP		**	*							NDP		*					NDP			*			0129-2L
3640.00	cut	Sh/Clst: m gy to drk gy to brn blk	95	**	*	*	?	*					5		*					TR			*			0137-1L
3658.00	cut	Sh/Clst: drk gy to brn blk	100	**		*		*					TR		*					TR			*			0140-1L
3856.00	cut	Sh/Clst: m gy to drk gy to brn blk	NDP	*	**	*	*		?				NDP		*					NDP			*			0168-1L
4084.00	cut	Sh/Clst: m gy to drk gy	NDP	*									NDP		*					NDP			*			0190-2L
4195.00	cut	Sh/Clst: m gy to drk gy	NDP										NDP							NDP						0200-2L
4234.00	cut	Sh/Clst: m brn to pl brn	NDP										NDP							NDP						0203-3L

Table 9a : Tabulation of carbon isotope data for EOM/EOM - fractions or Oils for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	EOM/Oil	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
3646.00	cut		-28.21	-28.61	-27.46	-28.30	-27.05	-	0138-1L
3731.10	*ccp		-28.86	-29.57	-28.69	-27.30	-27.09	-	0152-1L
3755.00	ccp		-29.05	-29.80	-28.68	-27.99	-26.94	-	0157-1L
4234.00	cut		-	-28.13	-26.65	-27.64	-26.58	-	0203-3L

Table 9b : Tabulation of cv values from carbon isotope data for well NOCS 7/8-3

Depth unit of measure: m

Depth	Typ	Lithology	Saturated	Aromatic	cv value	Sample
3646.00	cut		-28.61	-27.46	-0.23	0138-1L
3731.10	ccp		-29.57	-28.69	-0.53	0152-1L
3755.00	ccp		-29.80	-28.68	0.07	0157-1L
4234.00	cut		-28.13	-26.65	0.36	0203-3L

Table 10A: Variation in Triterpane Distribution (peak height) for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	C+D		J1		Sample
				B+E+F									E/E+F	C+D+E+F	D+F/C+E	J1+J2%	
3646.00	Sh/Clst	0.68	0.40	0.11		0.34	0.25	0.27	0.10	0.31	0.09	0.14	0.91	0.26	0.11	61.70	0138-1
3731.10	S/Sst	0.76	0.43	0.10		0.41	0.29	0.20	0.10	0.25	0.09	0.12	0.92	0.30	0.10	61.76	0152-1
3755.00	S/Sst	0.93	0.48	0.11		0.41	0.29	0.20	0.12	0.29	0.11	0.11	0.92	0.30	0.09	59.78	0157-1
4234.00	Sh/Clst	0.75	0.43	0.11		0.37	0.27	0.26	0.07	0.18	0.06	0.18	0.92	0.28	0.10	61.34	0203-3

Table 10B: Variation in Sterane Distribution (peak height) for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3646.00	Sh/Clst	0.89	52.41	75.68	1.70	0.75	0.53	0.37	0.61	1.10	3.27	0138-1
3731.10	S/Sst	0.89	48.56	75.65	1.58	0.76	0.37	0.25	0.61	0.94	3.02	0152-1
3755.00	S/Sst	0.89	54.08	77.90	1.65	0.77	0.35	0.23	0.64	1.18	3.84	0157-1
4234.00	Sh/Clst	0.89	55.44	75.03	1.58	0.73	0.56	0.44	0.60	1.24	3.37	0203-3

Ratio1:  $a / a + j$

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

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

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

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

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

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

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

Ratio9:  $q / t$

Ratio10:  $r + s / t$



Table 10C: Variation in Triaromatic Sterane Distribution for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
3646.00	Sh/Clst	0.85	0.82	0.56	0.60	0.63	0138-1
3731.10	S/Sst	0.74	0.74	0.54	0.50	0.64	0152-1
3755.00	S/Sst	0.78	0.74	0.54	0.54	0.66	0157-1
4234.00	Sh/Clst	1.00	1.00	1.00	1.00	1.00	0203-3

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 10D: Variation in Monoaromatic Sterane Distribution for Well NOCS 7/8-3

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>
3646.00	Sh/Clst	0.48	0.41	0.33	0.29	0138-1
3731.10	S/Sst	0.43	0.34	0.30	0.25	0152-1
3755.00	S/Sst	0.47	0.36	0.33	0.28	0157-1
4234.00	Sh/Clst	0.61	0.38	0.45	0.36	0203-3

Ratio1: A1 / A1 + E1

Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1

Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Table 10E: Aromatisation of Steranes for Well NOCS 7/8-3

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3646.00	Sh/Clst	0.16	1.00	0138-1
3731.10	S/Sst	0.38	1.00	0152-1
3755.00	S/Sst	0.39	1.00	0157-1
4234.00	Sh/Clst	1.00	-	0203-3

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

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

Table 10F: Raw GCMS triterpane data (peak height) for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
3646.00	Sh/Clst	33.76	22.50	10.00	14.70	7.62	32.46	22.00	16.97	54.98	0138-1
		44.19	8.14	163.11	15.43	86.13	57.01	9.39	69.57		
		43.18	64.44	35.04	36.29	22.66	31.32	19.84			
3731.10	S/Sst	32.93	24.19	13.01	15.79	8.25	31.70	24.04	20.21	80.56	0152-1
		38.89	11.54	194.22	16.87	94.35	60.66	14.81	79.07		
		48.96	72.41	43.92	48.56	29.64	39.80	27.30			
3755.00	S/Sst	42.87	29.67	18.61	21.44	12.32	39.30	36.69	32.09	109.70	0157-1
		54.48	12.55	266.43	23.07	132.10	86.95	21.28	109.76		
		73.84	110.22	66.61	75.81	44.70	62.74	48.62			
4234.00	Sh/Clst	45.98	24.61	8.98	11.26	4.36	25.78	19.33	9.19	51.45	0203-3
		35.68	6.67	138.63	11.92	74.39	46.40	8.52	51.25		
		32.30	39.94	22.72	24.73	13.36	13.86	9.55			

Table 10G: Raw GCMS sterane data (peak height) for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
3646.00	Sh/Clst	63.42	18.54	116.10	73.96	32.48	35.97	52.18	33.67	22.99	0138-1
		65.22	36.64	14.24	47.65	17.83	8.34	21.24	26.92		
		6.10	15.13	22.27	22.64	13.74					
3731.10	S/Sst	53.04	16.17	157.41	89.84	45.74	35.34	65.05	43.49	27.73	0152-1
		84.91	46.83	19.54	66.36	24.17	8.77	32.20	41.86		
		10.66	22.85	38.40	34.70	24.21					
3755.00	S/Sst	66.77	21.96	214.52	137.71	61.61	55.93	86.54	63.75	48.15	0157-1
		117.00	70.39	25.97	90.90	31.48	22.24	45.72	51.74		
		12.97	32.26	53.98	51.17	27.39					
4234.00	Sh/Clst	59.97	16.47	70.30	40.36	20.67	17.31	26.99	19.28	13.51	0203-3
		42.19	17.42	8.71	29.41	9.55	7.30	12.78	15.03		
		3.21	13.14	17.49	18.12	10.56					

Table 10H: Raw GCMS trioaromatic sterane data (peak height) for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
3646.00	Sh/Clst	445.00	362.83	67.90	262.04	95.10	125.50	80.00	0138-1
3731.10	S/Sst	501.52	496.13	54.04	286.26	168.05	161.17	178.13	0152-1
3755.00	S/Sst	620.33	493.12	78.57	325.87	176.88	179.49	173.63	0157-1
4234.00	Sh/Clst	142.50	121.91	0.00	0.00	0.00	0.00	0.00	0203-3

Table 10I: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 7/8-3

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
3646.00	Sh/Clst	27.13	20.41	22.06	13.13	29.52	14.62	25.96	12.30	0.00	0138-1
3731.10	S/Sst	101.11	69.42	84.81	75.62	134.69	57.64	104.43	57.96	0.00	0152-1
3755.00	S/Sst	138.92	88.95	111.18	83.57	159.25	47.67	125.93	61.02	0.00	0157-1
4234.00	Sh/Clst	14.18	5.53	5.12	3.89	9.03	4.29	8.40	3.59	0.00	0203-3