

c) Casing

1. 30" at 145 m
2. 20" at 356,5 m
3. 13 3/8" at 1811,5 m

d) Mud Program

Initial drilling from the sea floor to 370 m was with seawater and gel

A lignosulphonate-seawater mud system was used from 350 m to T.D. Mud weight was raised from the initial 9.2 to 11.8 at 2650 m.

e) Drilling Problems

Very few problems were encountered in the drilling operation. Sloughing shales were encountered below the 13 3/8" casing seat.

f) Coring

Area: Norwegian North Sea  
 Well 15/12-2  
 Rig: Ross Rig - Aker H-3

ESSO EXPLORATION INC.

FLUID PROPERTIES

Date	Depth	Mud Wt.	Vis	W.L.	Hi-Temp F.L.	P.V.	YP	Gels 0/10	F.C.	PH	Alk	Cl x 1000	Ca	Volume - %			C.E.C.	Remarks
														Oil	Sand	Solids		
08.01.76	477	8.8	30			11	2	0/2		9.5				0	4		SPUD MUD	
09.	1215	9.2	28			2	3	0/1		8.5		17	2000	1	6 1/2		17 1/2" PILOT	
13	1215	8.7	33			4	2	0/2		9.5	.2	17	1500	-	3 1/2		OH TO 26"	
14	1215	8.7	33			4	2	0/2		9.5	.2	17	2500	-	3 1/2			
7	1215	9.0	38			4	36	21/26		9.5		16	600	-	6		17 1/2" HOLE	
18	3517	9.3	33	44		4	25	16/17		9.5	0.1	17	800	1/4	6			
19	5030	9.2	32	45+		4	20	14/17		9.3	0.1	18	720	Tr	6		UNLATCH RISER	
27	5030	9.8	45	-		6	36	4/17		9.2	.05	18	-	3/4	13	30	REAM TO BOTTOM	
27	5336	9.5	33	-		4	24	8/15		8.5	.01	19	-	1	9	25	DRILL 17 1/2"	
28	6028	9.4	47	50		6	22	6/15		8.5	-	19	-	1/2	8		PREP TO LOG	
29	6028	9.5	39	35		10	19	13/14		9.6	0.2	14	520	Tr	9		C/S C MUD	
30	6028	9.7	56	29		10	52	28/32		10.6	0.4	13	320	Tr	10		LOWER WL	
30	6028	9.6	55	21		11	20	11/16		11	0.4	12	240	Tr	10		RAISE PH	
31	6028	9.5	55	12		12	21	12/17		10.8	0.7	12	Tr	1/4	11 1/2		RE-RUN LOGS	
01.02	6028	9.4	35	12		9	6	11/12		10.7	0.6	10	Tr	Tr	8		C/S C FOR CSG.	
03	6028	9.2	45	15		9	14	5/9		10.2	1.0	10	40	Tr	7		PREP TO DRILL OUT	
03	6996	9.2	39	15		6	14	12/16		10.5	0.4	11	40	Tr	7		DRILL 12 1/4"	
04	7421	9.1	42	14		7	17	9/12		10.8	0.6	10	40	Tr	7		SLOUGHING START	
06	7421	9.5	77	15		10	54	20/35		9.5	0.2	11	120	1/2	10	20	RAISE YP	
06	7536	9.5	49	16		12	12	4/7		10	0.3	12	40	1/4	10	30	DRILL 12 1/4"	
07	7808	9.4	45	8		12	13	2/11		11.5	0.4	14	40	1/4	8	30		
08	8094	9.3	45	8		8	12	3/11		11.5	0.5	12	0	Tr	7	30		
09	8136	9.2	45	9		8	10	2/9		11.5	0.5	10	40	Tr	7	25		
10	8172	9.2	50	8		11	14	2/9		12	0.6	10	40	Tr	7	28		



ESSO EXPLORATION NORWAY INC.

Well 15/12-2

MUD ADDITIONS

Mud Company: MARITIME (IDE)

Date	Depth	BARITE	BENTONITE	CAUSTIC	FERROUS CHROME LS	CMC	LIME	SODA ASH	ZEOGEL	Cost	Remarks
07.01.76	477	7.90	0.15			0.18				1758	SPUD MUD
08	477	5.55	0.10							1217	RUN 30"
09	1215	2.20 4.75	0.05			0.30				1271	DRILL 17 1/2" PILOT HOLE
10	1215	8.00	0.12			0.62				1820	PREP. SPUD MUD
11	1215	2.00								420	OPEN HOLE
12	1215	3.00				0.10				682	
13	1215	4.00	0.12	0.08						1144	
14	1215	2.45								514	
17	2578		0.50							270	DRILL 17 1/2" HOLE
18	3517	5.50	3.25	0.75						1654	
19	5030	2.00	2.12							1326	DISCONNECT RISER
27	5336	2.85	0.62							924	RECONNECT RISER
28	6028	7.00	0.20	0.25						1774	
29	6028	5.50	1.75	1.15	0.30					2742	C & C MUD
30	6028	8.75	1.35	0.50	0.12					3036	C & C MUD
31	6028	5.00	2.70	0.65	0.65	0.32				2369	PREP TO RUN 13 3/8"
02.02.76	6044						0.12			60	DRILL 12 1/4 HOLE
03	6996	3.50	6.00	0.60	0.98		0.12			2458	
04	7421	1.50	5.00	0.50	0.50					1694	SLOUGHING SHALE
05	7421		0.38							464	
06	7536	4.50		2.00						1795	
07	7808	7.35	0.85	0.85						2770	
08	8094	1.80	0.32	0.02	0.38					1317	
09	8136	12.6	0.22							1415	BARITE INVENTORY AD.
10	8172	10.40	0.38		0.08					2529	PRE-HYDRATE GEL
11	8412	4.25		0.25			0.10			1145	

ESSO EXPLORATION NORWAY INC.

Well 15/12-2

MUD ADDITIONS

Mud Company:

Date	Depth	BARITE	BENTONITE	CAUSTIC	FERROUS CHROME LS	CMC	LIME	SODA ASH	ZEOGEL		Cost	Remarks
12.02.76	8525	2.60	1.80	0.32	0.02						822	
13	8763	84.0	3.00	0.08							9322	WEIGHT UP TO 11.0 PPG
14	8963	64.1		0.25	0.50						10871	WEIGHT UP TO 11.8 PPG
15	9173	2.0	0.75	0.25	0.75						828	
16	9264	15.0	1.50		0.25						1995	
17	9299	8.0		0.25	0.25						1069	CORING
18	9417	4.0	1.50								727	
19	9473			0.25							130	
20	9593	18.0		0.28	2.00						3597	TD-PREP TO LOG
TOTAL	207327	240.0	107.30	12.81	9.85	1.20	1.20	0.34			67929	

# Geochemical Report for Well NOCS 15/12-2

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Date: 15.12.94

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30 JAN. 1996  
**REGISTRERT**  
OLJEDIREKTORATET

## Chapter 1

# INTRODUCTION

### 1.1 General Comments

This organic geochemical study of well NOCS 15/12-2 was carried out by Geolab Nor AS as part of a general study of wells on the border between the Norwegian and United Kingdom continental shelf.

A total of 135 samples was collected at Norwegian Petroleum Directorate. Four of these were chips from cores, the other 131 were cuttings samples. No fluids were analysed. All the samples were described and samples for screening analysis were selected on the basis of the lithology description plus the stratigraphical information contained in NPD Well Summary Sheets No 7. Subsequent analyses were selected on the basis of screening data and information gathered during analysis.

The report is presented chapter- and section-wise, in a chronological order of analyses carried out, beginning with lithological descriptions, screening analysis and followed by the detailed analyses. Within each section, the results are discussed in a stratigraphic context (top to bottom).

## 1.2 Analytical Program

The following analytical program was performed for well NOCS 15/12-2:

<u>Analysis type</u>	<u>No of samples</u>	<u>Figures</u>	<u>Tables</u>
Lithology description	135	1	1
TOC	50	1	1,2
Rock-Eval pyrolysis	50	2,3,4,5	2
Thermal extraction GC (GHM, S <sub>1</sub> )	15	6a-c	
Pyrolysis GC (GHM, S <sub>2</sub> )	15	7a-c,8	3
Soxhlet Extraction of organic matter		9	4
MPLC separation		9	4
Saturated hydrocarbon GC		10	5
Aromatic hydrocarbon GC		11a-b	6
Vitrinite reflectance		12	7
Visual kerogen microscopy		13	7,8
Isotope composition C <sub>15</sub> + fraction		14,15	9a-b
GC - MS of saturated and aromatic HC		16a-c	10a-i



Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1005.00						0001
				75 Sh/Clst: lt ol gy to m gy, calc		0001-1L
				25 S/Sst : w, l		0001-2L
				tr Sh/Clst: gy blk		0001-3L
1025.00						0002
	1.06			75 Sh/Clst: lt ol gy to m gy, calc		0002-1L
				15 S/Sst : w, l		0002-2L
				10 Ca : w, chk		0002-3L
1045.00						0003
				75 Sh/Clst: lt ol gy to m gy, calc		0003-1L
				15 S/Sst : w, l		0003-2L
				5 Ca : w, chk		0003-3L
				5 Sh/Clst: gy red		0003-4L
1065.00						0004
				75 Sh/Clst: lt ol gy to m gy, calc		0004-1L
				25 S/Sst : w, l		0004-2L
				tr Ca : w, chk		0004-3L
				tr Cont : evap		0004-4L
1085.00						0005
				50 Sh/Clst: lt ol gy to m gy, calc		0005-1L
				50 S/Sst : w, l		0005-2L
				tr Ca : w, chk		0005-3L
				tr Cont : evap		0005-4L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1105.00						0006
	0.84		85	Sh/Clst: ol gy to m gy, calc		0006-1L
			15	S/Sst : w, l		0006-2L
			tr	Cont : evap		0006-3L
1125.00						0007
			85	Sh/Clst: ol gy to m gy, calc		0007-1L
			15	S/Sst : w, l		0007-2L
			tr	Cont : evap		0007-3L
1145.00						0008
			85	Sh/Clst: ol gy to m gy, calc		0008-1L
			15	S/Sst : w, l		0008-2L
			tr	Cont : evap		0008-3L
1165.00						0009
			85	Sh/Clst: ol gy to m gy, calc		0009-1L
			15	S/Sst : w, l		0009-2L
			tr	Ca : m y brn, dol		0009-3L
1185.00						0010
			85	Sh/Clst: ol gy to m gy, calc		0010-1L
			15	S/Sst : w, l		0010-2L
			tr	Ca : m y brn, dol		0010-3L
1205.00						0011
	1.78		90	Sh/Clst: ol gy to m gy, calc		0011-1L
			10	S/Sst : w, l		0011-2L
			tr	Ca : w		0011-3L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1225.00						0012
				100 Sh/Clst: ol gy to m brn gy, calc		0012-1L
				tr S/Sst : w, l		0012-2L
				tr Ca : w		0012-3L
1245.00						0013
				100 Sh/Clst: ol gy to m brn gy, calc		0013-1L
				tr S/Sst : w, l		0013-2L
				tr Ca : w		0013-3L
1265.00						0014
				100 Sh/Clst: ol gy to m brn gy, calc		0014-1L
				tr S/Sst : w, l		0014-2L
				tr Ca : w		0014-3L
1285.00						0015
				100 Sh/Clst: m brn gy to dsk y brn		0015-1L
				tr S/Sst : w, l		0015-2L
				tr Other : gn, glauc		0015-3L
1305.00						0016
	3.69			100 Sh/Clst: m brn gy to dsk y brn		0016-1L
				tr S/Sst : w, l		0016-2L
				tr Other : gn, glauc		0016-3L
1325.00						0017
				100 Sh/Clst: m brn gy to dsk y brn		0017-1L
				tr S/Sst : w, l		0017-2L
				tr Other : gn, glauc		0017-3L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
1345.00						0018
	2.99	100	Sh/Clst: lt brn gy to dsk y brn tr S/Sst : w, l			0018-1L 0018-2L
1365.00						0019
		100	Sh/Clst: lt brn gy to dsk y brn tr S/Sst : w, l			0019-1L 0019-2L
1385.00						0020
		100	Sh/Clst: lt brn gy to dsk y brn tr S/Sst : w, l			0020-1L 0020-2L
1405.00						0021
	2.02	100	Sh/Clst: lt brn gy to dsk y brn tr S/Sst : w, l			0021-1L 0021-2L
1425.00						0022
		100	Sh/Clst: lt brn gy to dsk y brn tr S/Sst : w, l tr Sh/Clst: gy red			0022-1L 0022-2L 0022-3L
1445.00						0023
	1.81	100	Sh/Clst: ol gy to lt brn gy to dsk y brn tr S/Sst : w, l tr Sh/Clst: gy red tr Cont : evap			0023-1L 0023-2L 0023-3L 0023-4L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1005.00						0001
				75 Sh/Clst: lt ol gy to m gy, calc		0001-1L
				25 S/Sst : w, l		0001-2L
				tr Sh/Clst: gy blk		0001-3L
1025.00						0002
	1.06			75 Sh/Clst: lt ol gy to m gy, calc		0002-1L
				15 S/Sst : w, l		0002-2L
				10 Ca : w, chk		0002-3L
1045.00						0003
				75 Sh/Clst: lt ol gy to m gy, calc		0003-1L
				15 S/Sst : w, l		0003-2L
				5 Ca : w, chk		0003-3L
				5 Sh/Clst: gy red		0003-4L
1065.00						0004
				75 Sh/Clst: lt ol gy to m gy, calc		0004-1L
				25 S/Sst : w, l		0004-2L
				tr Ca : w, chk		0004-3L
				tr Cont : evap		0004-4L
1085.00						0005
				50 Sh/Clst: lt ol gy to m gy, calc		0005-1L
				50 S/Sst : w, l		0005-2L
				tr Ca : w, chk		0005-3L
				tr Cont : evap		0005-4L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1225.00						0012
			100	Sh/Clst: ol gy to m brn gy, calc		0012-1L
				tr S/Sst : w, l		0012-2L
				tr Ca : w		0012-3L
1245.00						0013
			100	Sh/Clst: ol gy to m brn gy, calc		0013-1L
				tr S/Sst : w, l		0013-2L
				tr Ca : w		0013-3L
1265.00						0014
			100	Sh/Clst: ol gy to m brn gy, calc		0014-1L
				tr S/Sst : w, l		0014-2L
				tr Ca : w		0014-3L
1285.00						0015
			100	Sh/Clst: m brn gy to dsk y brn		0015-1L
				tr S/Sst : w, l		0015-2L
				tr Other : gn, glauc		0015-3L
1305.00						0016
	3.69		100	Sh/Clst: m brn gy to dsk y brn		0016-1L
				tr S/Sst : w, l		0016-2L
				tr Other : gn, glauc		0016-3L
1325.00						0017
			100	Sh/Clst: m brn gy to dsk y brn		0017-1L
				tr S/Sst : w, l		0017-2L
				tr Other : gn, glauc		0017-3L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1465.00						0024
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0024-1L
				tr S/Sst : w, l		0024-2L
				tr Sh/Clst: gy red		0024-3L
				tr Cont : evap		0024-4L
1485.00						0025
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0025-1L
				tr S/Sst : w, l		0025-2L
				tr Sh/Clst: gy red		0025-3L
				tr Cont : evap		0025-4L
1505.00						0026
	3.05		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0026-1L
				tr S/Sst : w, l		0026-2L
				tr Sh/Clst: gy red		0026-3L
				tr Cont : evap		0026-4L
1525.00						0027
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0027-1L
				tr S/Sst : w, l		0027-2L
				tr Sh/Clst: gy red		0027-3L
				tr Cont : evap		0027-4L
1545.00						0028
	2.55		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0028-1L
				tr S/Sst : w, l		0028-2L
				tr Sh/Clst: gy red		0028-3L
				tr Cont : evap		0028-4L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1565.00						0029
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0029-1L
				tr S/Sst : w, l		0029-2L
				tr Sh/Clst: gy red		0029-3L
				tr Cont : evap		0029-4L
1585.00						0030
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0030-1L
				tr Sh/Clst: gy red		0030-2L
				tr Cont : evap		0030-3L
1605.00						0031
	1.93		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0031-1L
				tr Sh/Clst: gy red		0031-2L
				tr Cont : evap		0031-3L
1625.00						0032
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0032-1L
				tr Sh/Clst: gy red		0032-2L
				tr Cont : evap		0032-3L
1645.00						0033
	1.90		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0033-1L
				tr Sh/Clst: gy red		0033-2L
				tr Cont : evap		0033-3L
1665.00						0034
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0034-1L
				tr Sh/Clst: gy red		0034-2L
				tr Cont : evap		0034-3L



Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology	description	
1685.00						0035
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0035-1L
				tr Sh/Clst: gy red		0035-2L
				tr Cont : evap		0035-3L
1705.00						0036
	1.26		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0036-1L
				tr Sh/Clst: gy red		0036-2L
				tr Cont : evap		0036-3L
1725.00						0037
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0037-1L
				tr Sh/Clst: gy red		0037-2L
				tr Cont : evap		0037-3L
1745.00						0038
	1.56		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0038-1L
				tr Sh/Clst: gy red		0038-2L
				tr Cont : evap		0038-3L
1765.00						0039
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0039-1L
				tr Sh/Clst: gy red		0039-2L
				tr Cont : evap		0039-3L
1785.00						0040
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0040-1L
				tr Sh/Clst: gy red		0040-2L
				tr Cont : evap		0040-3L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1805.00						0041
	1.25	100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Sh/Clst: gy red tr Cont : evap		0041-1L 0041-2L 0041-3L
1825.00						0042
		100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Sh/Clst: gy red tr Cont : evap		0042-1L 0042-2L 0042-3L
1845.00						0043
		100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Sh/Clst: gy red tr Cont : evap		0043-1L 0043-2L 0043-3L
1865.00						0044
	2.45	100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Sh/Clst: gy red tr Cont : evap		0044-1L 0044-2L 0044-3L
1885.00						0045
		100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Sh/Clst: gy red tr Cont : evap		0045-1L 0045-2L 0045-3L
1905.00						0046
	1.78	100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Sh/Clst: gy red tr Cont : evap		0046-1L 0046-2L 0046-3L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1925.00						0047
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0047-1L
				tr Sh/Clst: gy red		0047-2L
				tr Cont : evap		0047-3L
1945.00						0048
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0048-1L
				tr Sh/Clst: gy red		0048-2L
				tr Cont : evap		0048-3L
1965.00						0049
	1.74		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0049-1L
				tr Sh/Clst: gy red		0049-2L
				tr Cont : evap		0049-3L
1985.00						0050
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0050-1L
				tr Sh/Clst: gy red		0050-2L
				tr Cont : evap		0050-3L
2005.00						0051
	1.08		100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0051-1L
				tr Cont : evap		0051-2L
2025.00						0052
			100	Sh/Clst: ol gy to lt brn gy to dsk y brn		0052-1L
				tr Cont : evap		0052-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2045.00						0053
	1.71	100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Cont : evap		0053-1L 0053-2L
2065.00						0054
		100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Cont : evap		0054-1L 0054-2L
2085.00						0055
		100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Cont : evap		0055-1L 0055-2L
2105.00						0056
	0.84	100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Cont : evap		0056-1L 0056-2L
2125.00						0057
		100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Cont : evap		0057-1L 0057-2L
2145.00						0058
		100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Cont : evap		0058-1L 0058-2L
2165.00						0059
	0.29	100		Sh/Clst: ol gy to lt brn gy to dsk y brn tr Cont : evap		0059-1L 0059-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2185.00						0060
				95 Sh/Clst: ol gy to lt brn gy to dsk y brn		0060-1L
				5 Sh/Clst: gy red		0060-3L
				tr Cont : evap		0060-2L
2205.00						0061
	0.21			90 Sh/Clst: ol gy to lt brn gy		0061-1L
				10 Sh/Clst: gy red		0061-3L
				tr Cont : evap		0061-2L
2225.00						0062
				80 Sh/Clst: ol gy to lt brn gy		0062-1L
				20 Sh/Clst: gy red		0062-2L
2245.00						0063
	cvd	0.08		40 Sh/Clst: ol gy to lt brn gy		0063-1L
				40 Ca : w, chk		0063-3L
				20 Sh/Clst: gy red		0063-2L
2267.00						0064
	cvd			50 Ca : w, chk		0064-3L
				30 Sh/Clst: ol gy to lt brn gy		0064-1L
				20 Sh/Clst: gy red		0064-2L
2285.00						0065
	cvd			80 Ca : w, chk		0065-3L
				20 Sh/Clst: ol gy to lt brn gy		0065-1L
				tr Sh/Clst: gy red		0065-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2306.00						0066
	cvd	0.05	80	Ca : w, chk		0066-3L
			20	Sh/Clst: ol gy to lt brn gy		0066-1L
			tr	Sh/Clst: gy red		0066-2L
2324.00						0067
	cvd		80	Ca : w, chk		0067-3L
			20	Sh/Clst: ol gy to lt brn gy		0067-1L
			tr	Sh/Clst: gy red		0067-2L
2342.00						0068
	cvd		90	Ca : w, chk		0068-3L
			10	Sh/Clst: ol gy to lt brn gy		0068-1L
			tr	Sh/Clst: gy red		0068-2L
2366.00						0069
	cvd		90	Ca : w, chk		0069-3L
			10	Sh/Clst: ol gy to lt brn gy		0069-1L
			tr	Sh/Clst: gy red		0069-2L
2387.00						0070
	cvd		90	Ca : w, chk		0070-3L
			10	Sh/Clst: ol gy to lt brn gy		0070-1L
			tr	Sh/Clst: gy red		0070-2L
2405.00						0071
	cvd	0.02	90	Ca : w, chk		0071-3L
			10	Sh/Clst: ol gy to lt brn gy		0071-1L
			tr	Sh/Clst: gy red		0071-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2426.00						0072
	cvd			90 Ca : w, chk 10 Sh/Clst: ol gy to lt brn gy tr Sh/Clst: gy red		0072-3L 0072-1L 0072-2L
2447.00						0073
				90 Ca : w, chk 10 Sh/Clst: lt gy, lt gn gy tr Sh/Clst: gy red		0073-3L 0073-1L 0073-2L
2465.00						0074
				90 Ca : w, chk 10 Sh/Clst: lt gy, lt gn gy tr Sh/Clst: gy red		0074-3L 0074-1L 0074-2L
2486.00						0075
				80 Ca : w, chk 20 Sh/Clst: lt gy, lt gn gy tr Sh/Clst: gy red		0075-3L 0075-1L 0075-2L
2507.00						0076
	0.05	100		Ca : w, chk tr Sh/Clst: lt gy, lt gn gy tr Sh/Clst: gy red		0076-3L 0076-1L 0076-2L
2525.00						0077
				100 Ca : w, chk tr Sh/Clst: lt gy, lt gn gy tr Sh/Clst: gy red		0077-3L 0077-1L 0077-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2546.00						0078
			90	Ca	: w, chk	0078-3L
			10	Sh/Clst:	lt gy, lt gn gy	0078-1L
			tr	Sh/Clst:	gy red	0078-2L
2567.00						0079
	0.05		90	Ca	: w, s, chk	0079-3L
			10	Sh/Clst:	lt gy, lt gn gy	0079-1L
			tr	Sh/Clst:	gy red	0079-2L
2585.00						0080
			90	Ca	: w, s, chk	0080-3L
			10	Sh/Clst:	lt gy, lt gn gy	0080-1L
			tr	Sh/Clst:	gy red	0080-2L
2606.00						0081
	0.06		90	Ca	: w, s, chk	0081-3L
			10	Sh/Clst:	lt gy, lt gn gy	0081-1L
			tr	Sh/Clst:	gy red	0081-2L
2627.00						0082
			90	Ca	: w, s, chk	0082-3L
			10	Sh/Clst:	lt gy, lt gn gy	0082-1L
			tr	Sh/Clst:	gy red	0082-2L
2648.00						0083
			90	Ca	: w, s, chk	0083-3L
			10	Sh/Clst:	lt gy, lt gn gy	0083-1L
			tr	Sh/Clst:	gy red	0083-2L



Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2660.00						0084
			90	Ca : w, s, chk		0084-3L
			10	Sh/Clst: lt gy, lt gn gy		0084-1L
			tr	Sh/Clst: gy red		0084-2L
2665.00						0085
			90	Ca : w, s, chk		0085-3L
			10	Sh/Clst: lt gy, lt gn gy		0085-1L
			tr	Sh/Clst: gy red		0085-2L
2672.00						0086
			50	Sh/Clst: gy red		0086-2L
			50	Ca : w, s, chk		0086-3L
			tr	Sh/Clst: lt gy, lt gn gy		0086-1L
2675.00						0087
			50	Sh/Clst: gy red		0087-2L
			50	Ca : w, s, chk		0087-3L
			tr	Sh/Clst: lt gy, lt gn gy		0087-1L
2681.00						0088
			70	Ca : w, s, chk		0088-3L
			30	Sh/Clst: gy red		0088-2L
			tr	Sh/Clst: lt gy, lt gn gy		0088-1L
2684.00						0089
			90	Ca : w, chk		0089-3L
			10	Sh/Clst: lt gy, lt gn gy		0089-1L
			tr	Sh/Clst: gy red		0089-2L

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Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2690.00						0090
	0.11		90	Ca : w, chk		0090-3L
			10	Sh/Clst: lt gy, lt gn gy		0090-1L
			tr	Sh/Clst: gy red		0090-2L
2696.00						0091
			90	Ca : w, chk		0091-3L
			10	Sh/Clst: lt gy to drk gy, lt gn gy		0091-1L
			tr	Sh/Clst: gy red		0091-2L
2702.00						0092
			90	Ca : w, chk		0092-3L
			10	Sh/Clst: lt gy to drk gy, lt gn gy		0092-1L
			tr	Sh/Clst: gy red		0092-2L
			tr	Sh/Clst: brn blk		0092-4L
2705.00						0093
	9.63		90	Sh/Clst: brn blk		0093-3L
			10	Ca : w, chk		0093-2L
			tr	Sh/Clst: lt gy to drk gy, lt gn gy		0093-1L
			tr	S/Sst : v col, fos		0093-4L
2711.00						0094
	8.48		100	Sh/Clst: brn blk		0094-1L
			tr	Cont : bar, evap		0094-2L
2717.00						0095
	8.74		100	Sh/Clst: brn blk		0095-1L
			tr	Cont : bar, evap		0095-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2720.00						0096
			100	Sh/Clst: brn blk		0096-1L
				tr Cont : bar, evap		0096-2L
				tr Sh/Clst: m gy		0096-3L
2726.00						0097
		7.11	100	Sh/Clst: brn blk		0097-1L
				tr Cont : bar, evap		0097-2L
				tr Sh/Clst: m gy		0097-3L
2732.00						0098
		6.10	100	Sh/Clst: brn blk		0098-1L
				tr Cont : bar, evap		0098-2L
				tr Sh/Clst: m gy		0098-3L
2735.00						0099
		8.85	100	Sh/Clst: brn blk		0099-1L
				tr Cont : bar, evap		0099-2L
				tr Sh/Clst: m gy		0099-3L
2741.00						0100
			100	Sh/Clst: brn blk		0100-1L
				tr Cont : bar, evap		0100-2L
				tr Sh/Clst: m gy		0100-3L
2747.00						0101
		7.42	100	Sh/Clst: brn blk		0101-1L
				tr Cont : bar, evap		0101-2L
				tr Sh/Clst: m gy		0101-3L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2756.00						0102
	8.22	100	Sh/Clst:	brn blk		0102-1L
			tr Cont	: bar, evap		0102-2L
			tr Sh/Clst:	m gy		0102-3L
2762.00						0103
	8.61	100	Sh/Clst:	brn blk		0103-1L
			tr Cont	: bar, evap		0103-2L
			tr Sh/Clst:	m gy		0103-3L
2765.00						0104
		100	Sh/Clst:	brn blk		0104-1L
			tr Cont	: bar, evap		0104-2L
			tr Sh/Clst:	m gy		0104-3L
2771.00						0105
	8.00	100	Sh/Clst:	brn blk		0105-1L
			tr Cont	: bar, evap		0105-2L
			tr Sh/Clst:	m gy		0105-3L
2777.00						0106
		100	Sh/Clst:	brn blk		0106-1L
			tr Cont	: bar, evap		0106-2L
			tr Sh/Clst:	m gy		0106-3L
2780.00						0107
	6.01	100	Sh/Clst:	brn blk		0107-1L
			tr Cont	: bar, evap		0107-2L
			tr Sh/Clst:	m gy		0107-3L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2786.00						0108
			100	Sh/Clst: brn blk		0108-1L
				tr Cont : bar, evap		0108-2L
				tr Sh/Clst: m gy		0108-3L
2792.00						0109
	5.68		100	Sh/Clst: brn blk		0109-1L
				tr Cont : bar, evap		0109-2L
				tr Sh/Clst: m gy		0109-3L
2795.00						0110
			100	Sh/Clst: brn blk		0110-1L
				tr Cont : bar, evap		0110-2L
				tr Sh/Clst: m gy		0110-3L
2801.00						0111
	6.38		100	Sh/Clst: brn blk		0111-1L
				tr Cont : bar, evap		0111-2L
				tr Sh/Clst: m gy		0111-3L
2807.00						0112
			70	Sh/Clst: brn blk		0112-1L
			15	Ca : dsk y brn, dol		0112-2L
			15	S/Sst : w		0112-3L
				tr Cont : bar, evap		0112-4L
2810.00						0113
	5.96		80	Sh/Clst: brn blk		0113-1L
			15	Ca : dsk y brn, dol		0113-2L
			5	S/Sst : w		0113-3L
				tr Cont : bar, evap		0113-4L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2816.00						0114
				50 Sh/Clst: brn blk		0114-1L
				50 S/Sst : w		0114-3L
				tr Ca : dsk y brn, dol		0114-2L
				tr Cont : bar, evap		0114-4L
2822.00						0115
				70 S/Sst : w		0115-2L
				30 Sh/Clst: brn blk		0115-1L
				tr Cont : bar, evap		0115-3L
2823.00	ccp					0116
	0.12	100		S/Sst : w, pyr		0116-1L
2828.00	ccp					0117
	0.05	100		S/Sst : w to lt gy		0117-1L
2830.00	ccp					0118
	0.04	100		S/Sst : w to lt gy		0118-1L
2835.00	ccp					0119
	0.01	100		S/Sst : w to lt gy		0119-1L
2840.00						0120
				90 S/Sst : w to lt gy, l		0120-1L
	cvd			10 Sh/Clst: brn blk		0120-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2846.00						0121
	cvd		90	S/Sst : w to lt gy, 1		0121-1L
			10	Sh/Clst: brn blk		0121-2L
2852.00						0122
	cvd	0.07	95	S/Sst : w to lt gy, 1		0122-1L
			5	Sh/Clst: brn blk		0122-2L
2855.00						0123
	cvd		95	S/Sst : w to lt gy, 1		0123-1L
			5	Sh/Clst: brn blk		0123-2L
2861.00						0124
	cvd		95	S/Sst : w to lt gy, 1		0124-1L
			5	Sh/Clst: brn blk		0124-2L
2867.00						0125
	cvd		100	S/Sst : w to lt gy, 1		0125-1L
			tr	Sh/Clst: brn blk		0125-2L
2870.00						0126
	cvd	0.10	90	S/Sst : w to lt gy, 1		0126-1L
			10	Sh/Clst: brn blk		0126-2L
2876.00						0127
	cvd		60	S/Sst : w to lt gy, 1		0127-1L
			40	Sh/Clst: brn blk, m gy		0127-2L

Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2882.00						0128
	cvd			60 S/Sst : w to lt gy, l 40 Sh/Clst: brn blk, m gy		0128-1L 0128-2L
2885.00						0129
	cvd			60 S/Sst : w to lt gy, l 40 Sh/Clst: brn blk, m gy		0129-1L 0129-2L
2894.00						0130
	cvd			60 S/Sst : w to lt gy, l 40 Sh/Clst: brn blk, m gy		0130-1L 0130-2L
2900.00						0131
	cvd			40 Sh/Clst: brn blk, m gy 40 Cont : evap 10 S/Sst : w to lt gy, l 10 Ca : lt gy to m gy, dol		0131-2L 0131-3L 0131-1L 0131-4L
2906.00						0132
	cvd			40 Sh/Clst: brn blk, m gy 40 Cont : evap 10 S/Sst : w to lt gy, l 10 Ca : lt gy to m gy, dol		0132-2L 0132-3L 0132-1L 0132-4L
2912.00						0133
	cvd			40 S/Sst : pi to w to lt gy, l 30 Cont : evap 20 Sh/Clst: brn blk, m gy 10 Sh/Clst: lt gy to lt gn gy		0133-1L 0133-3L 0133-2L 0133-4L



Table 1 : Lithology description for well NOCS 15/12-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2915.00						0134
	cvd			50 S/Sst : pi to w to lt gy, l		0134-1L
				20 Sh/Clst: brn blk, m gy		0134-2L
				20 Cont : evap		0134-3L
		0.04		10 Sh/Clst: lt gy to lt gn gy		0134-4L
2921.00						0135
	cvd			50 S/Sst : pi to w to lt gy, l		0135-1L
				20 Sh/Clst: brn blk, m gy		0135-2L
				20 Cont : evap		0135-3L
				10 Sh/Clst: lt gy to lt gn gy		0135-4L

Table 2 : Rock-Eval table for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1025.00	cut	Sh/Clst: lt ol gy to m gy	0.22	1.23	0.95	1.29	1.06	116	90	1.5	0.15	410	0002-1L
1105.00	cut	Sh/Clst: ol gy to m gy	0.12	0.92	0.87	1.06	0.84	110	104	1.0	0.12	409	0006-1L
1205.00	cut	Sh/Clst: ol gy to m gy	0.31	2.24	1.31	1.71	1.78	126	74	2.5	0.12	404	0011-1L
1305.00	cut	Sh/Clst: m brn gy to dsk y brn	0.44	3.87	4.35	0.89	3.69	105	118	4.3	0.10	408	0016-1L
1345.00	cut	Sh/Clst: lt brn gy to dsk y brn	0.42	2.95	2.16	1.37	2.99	99	72	3.4	0.12	411	0018-1L
1405.00	cut	Sh/Clst: lt brn gy to dsk y brn	0.25	2.25	1.73	1.30	2.02	111	86	2.5	0.10	416	0021-1L
1445.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.26	1.70	1.82	0.93	1.81	94	101	2.0	0.13	412	0023-1L
1505.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.27	2.31	2.46	0.94	3.05	76	81	2.6	0.10	416	0026-1L
1545.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.18	2.26	1.78	1.27	2.55	89	70	2.4	0.07	427	0028-1L
1605.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.13	1.94	1.14	1.70	1.93	101	59	2.1	0.06	427	0031-1L
1645.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.18	1.96	1.24	1.58	1.90	103	65	2.1	0.08	429	0033-1L
1705.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.22	1.69	1.13	1.50	1.26	134	90	1.9	0.12	425	0036-1L

Table 2 : Rock-Eval table for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1745.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.18	1.93	0.95	2.03	1.56	124	61	2.1	0.09	429	0038-1L
1805.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.19	1.75	0.92	1.90	1.25	140	74	1.9	0.10	419	0041-1L
1865.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.14	2.68	1.13	2.37	2.45	109	46	2.8	0.05	428	0044-1L
1905.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.09	1.11	0.85	1.31	1.78	62	48	1.2	0.08	421	0046-1L
1965.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.06	0.82	0.83	0.99	1.74	47	48	0.9	0.07	419	0049-1L
2005.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.01	0.50	0.58	0.86	1.08	46	54	0.5	0.02	422	0051-1L
2045.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.05	1.02	0.77	1.32	1.71	60	45	1.1	0.05	427	0053-1L
2105.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.06	1.22	0.28	4.36	0.84	145	33	1.3	0.05	419	0056-1L
2165.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	-	0.15	0.13	1.15	0.29	52	45	0.2	-	429	0059-1L
2205.00	cut	Sh/Clst: ol gy to lt brn gy	0.01	0.14	0.12	1.17	0.21	67	57	0.2	0.07	534	0061-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2245.00	cut	Ca : w	-	-	0.16	-	0.08	-	200	-	-	-	0063-3L
2306.00	cut	Ca : w	-	-	0.19	-	0.05	-	380	-	-	-	0066-3L
2405.00	cut	Ca : w	-	-	0.18	-	0.02	-	900	-	-	-	0071-3L
2507.00	cut	Ca : w	-	-	0.17	-	0.05	-	340	-	-	-	0076-3L
2567.00	cut	Ca : w	-	-	0.22	-	0.05	-	440	-	-	-	0079-3L
2606.00	cut	Ca : w	-	-	0.19	-	0.06	-	317	-	-	-	0081-3L
2690.00	cut	Ca : w	0.01	-	0.26	-	0.11	-	236	-	1.00	-	0090-3L
2705.00	cut	Sh/Clst: brn blk	1.78	48.97	0.88	55.65	9.63	509	9	50.8	0.04	429	0093-3L
2711.00	cut	Sh/Clst: brn blk	2.83	51.46	0.90	57.18	8.48	607	11	54.3	0.05	427	0094-1L
2717.00	cut	Sh/Clst: brn blk	2.66	51.13	0.88	58.10	8.74	585	10	53.8	0.05	428	0095-1L
2726.00	cut	Sh/Clst: brn blk	2.67	43.09	0.66	65.29	7.11	606	9	45.8	0.06	427	0097-1L
2732.00	cut	Sh/Clst: brn blk	2.77	41.74	0.61	68.43	6.10	684	10	44.5	0.06	425	0098-1L
2735.00	cut	Sh/Clst: brn blk	3.09	42.19	0.71	59.42	8.85	477	8	45.3	0.07	427	0099-1L
2747.00	cut	Sh/Clst: brn blk	2.18	36.52	0.61	59.87	7.42	492	8	38.7	0.06	427	0101-1L
2756.00	cut	Sh/Clst: brn blk	2.21	35.04	0.66	53.09	8.22	426	8	37.3	0.06	424	0102-1L

Table 2 : Rock-Eval table for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2762.00	cut	Sh/Clst: brn blk	4.96	58.85	1.04	56.59	8.61	684	12	63.8	0.08	427	0103-1L
2771.00	cut	Sh/Clst: brn blk	3.19	38.95	0.85	45.82	8.00	487	11	42.1	0.08	423	0105-1L
2780.00	cut	Sh/Clst: brn blk	3.00	36.08	0.92	39.22	6.01	600	15	39.1	0.08	426	0107-1L
2792.00	cut	Sh/Clst: brn blk	2.57	35.17	1.34	26.25	5.68	619	24	37.7	0.07	427	0109-1L
2801.00	cut	Sh/Clst: brn blk	3.60	45.88	1.31	35.02	6.38	719	21	49.5	0.07	429	0111-1L
2810.00	cut	Sh/Clst: brn blk	2.31	33.00	1.24	26.61	5.96	554	21	35.3	0.07	429	0113-1L
2823.00	ccp	S/Sst : w	0.02	0.07	0.41	0.17	0.12	58	342	0.1	0.22	427	0116-1L
2828.00	ccp	S/Sst : w to lt gy	0.03	0.19	0.24	0.79	0.05	380	480	0.2	0.14	524	0117-1L
2830.00	ccp	S/Sst : w to lt gy	0.04	0.17	0.31	0.55	0.04	425	775	0.2	0.19	579	0118-1L
2835.00	ccp	S/Sst : w to lt gy	0.02	0.03	0.27	0.11	0.01	300	2700	0.1	0.40	448	0119-1L
2852.00	cut	S/Sst : w to lt gy	0.02	0.05	0.09	0.56	0.07	71	129	0.1	0.29	428	0122-1L
2870.00	cut	S/Sst : w to lt gy	0.01	0.06	0.08	0.75	0.10	60	80	0.1	0.14	427	0126-1L
2915.00	cut	Sh/Clst: lt gy to lt gn gy	0.02	0.02	0.09	0.22	0.04	50	225	-	0.50	409	0134-4L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1025.00	cut	Sh/Clst: lt ol gy to m gy	5.30	30.22	59.25	5.22	1.23	0002-1L
1205.00	cut	Sh/Clst: ol gy to m gy	4.71	22.14	60.88	12.27	2.24	0011-1L
1305.00	cut	Sh/Clst: m brn gy to dsk y brn	7.26	16.12	56.12	20.49	3.87	0016-1L
1405.00	cut	Sh/Clst: lt brn gy to dsk y brn	5.41	13.86	65.21	15.52	2.25	0021-1L
1505.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	6.90	20.21	59.54	13.35	2.31	0026-1L
1605.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	7.43	25.90	54.19	12.47	1.94	0031-1L
1745.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	6.87	26.20	55.60	11.33	1.93	0038-1L
1865.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	8.27	26.37	50.97	14.39	2.68	0044-1L
2705.00	cut	Sh/Clst: brn blk	2.89	11.81	29.04	56.25	48.97	0093-3L
2732.00	cut	Sh/Clst: brn blk	2.90	12.18	29.53	55.39	41.74	0098-1L
2756.00	cut	Sh/Clst: brn blk	2.72	11.68	30.31	55.29	35.04	0102-1L
2762.00	cut	Sh/Clst: brn blk	3.06	9.82	31.02	56.10	58.85	0103-1L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2792.00	cut	Sh/Clst: brn blk	2.93	11.96	28.62	56.48	35.17	0109-1L
2810.00	cut	Sh/Clst: brn blk	2.80	11.71	27.27	58.22	33.00	0113-1L
2830.00	ccp	S/Sst : w to lt gy	8.38	39.67	48.16	3.80	0.17	0118-1L

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC (e) (%)	Sample
1325.00	com	Composite sample - see table 4 e	7.5	2.2	0.4	0.2	0.8	0.8	0.6	1.6	5.70	0136-0B
2720.00	com	Composite sample - see table 4 e	6.6	33.6	18.9	4.4	2.3	7.9	23.3	10.3	8.04	0137-0B
2732.00	com	Composite sample - see table 4 e	4.6	24.1	13.3	4.3	1.0	5.4	17.6	6.4	8.56	0138-0B
2756.00	cut	Sh/Clst: brn blk	5.7	14.6	8.3	2.6	0.6	3.2	10.9	3.8	6.35	0102-1L
2762.00	cut	Sh/Clst: brn blk	8.0	18.5	7.2	8.4	2.9	-	15.6	2.9	8.22	0103-1L
2792.00	com	Composite sample - see table 4 e	6.6	20.4	12.9	5.6	1.9	-	18.5	1.9	7.00	0140-0B
2816.00	com	Composite sample - see table 4 e	3.0	12.9	8.1	3.8	1.0	-	11.9	1.0	6.52	0141-0B



Table 4 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1325.00	com	Composite sample - see table 4 e	285	59	19	106	99	79	205	0136-0B
2720.00	com	Composite sample - see table 4 e	5112	2879	669	357	1205	3549	1563	0137-0B
2732.00	com	Composite sample - see table 4 e	5230	2893	936	217	1182	3830	1399	0138-0B
2756.00	cut	Sh/Clst: brn blk	2588	1469	452	100	565	1922	666	0102-1L
2762.00	cut	Sh/Clst: brn blk	2305	898	1047	359	-	1946	359	0103-1L
2792.00	com	Composite sample - see table 4 e	3089	1957	848	282	1	2805	283	0140-0B
2816.00	com	Composite sample - see table 4 e	4268	2672	1268	327	-	3940	327	0141-0B

Table 4 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1325.00	com	Composite sample - see table 4 e	5.00	1.05	0.35	1.86	1.75	1.40	3.61	0136-0B
2720.00	com	Composite sample - see table 4 e	63.59	35.82	8.33	4.45	14.99	44.15	19.44	0137-0B
2732.00	com	Composite sample - see table 4 e	61.10	33.80	10.95	2.54	13.82	44.75	16.36	0138-0B
2756.00	cut	Sh/Clst: brn blk	40.76	23.15	7.12	1.59	8.90	30.27	10.49	0102-1L
2762.00	cut	Sh/Clst: brn blk	28.05	10.94	12.74	4.37	-	23.68	4.37	0103-1L
2792.00	com	Composite sample - see table 4 e	44.14	27.96	12.12	4.03	0.02	40.08	4.05	0140-0B
2816.00	com	Composite sample - see table 4 e	65.46	40.98	19.45	5.03	-	60.44	5.03	0141-0B

Table 4 d: Composition of material extracted from the rock (%) for well NOCS 15/12-2

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	
1325.00	com	Composite sample - see table 4 e	20.93	6.98	37.21	34.88	27.91	72.09	300.00	38.71	0136-0B
2720.00	com	Composite sample - see table 4 e	56.33	13.10	7.00	23.58	69.43	30.57	430.00	227.07	0137-0B
2732.00	com	Composite sample - see table 4 e	55.32	17.91	4.16	22.61	73.23	26.77	308.82	273.60	0138-0B
2756.00	cut	Sh/Clst: brn blk	56.79	17.47	3.89	21.84	74.27	25.73	325.00	288.59	0102-1L
2762.00	cut	Sh/Clst: brn blk	38.98	45.43	15.59	-	84.41	15.59	85.82	541.32	0103-1L
2792.00	com	Composite sample - see table 4 e	63.36	27.46	9.14	0.05	90.82	9.18	230.77	988.77	0140-0B
2816.00	com	Composite sample - see table 4 e	62.61	29.71	7.68	-	92.32	7.68	210.70	1202.02	0141-0B

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>
1285.00	1325.00	com	0136-0B is composed of:	1285.00	cut	Sh/Clst: m brn gy to dsk y brn	0015-1L
				1305.00	cut	Sh/Clst: m brn gy to dsk y brn	0016-1L
				1325.00	cut	Sh/Clst: m brn gy to dsk y brn	0017-1L
2711.00	2720.00	com	0137-0B is composed of:	2711.00	cut	Sh/Clst: brn blk	0094-1L
				2717.00	cut	Sh/Clst: brn blk	0095-1L
				2720.00	cut	Sh/Clst: brn blk	0096-1L
2726.00	2732.00	com	0138-0B is composed of:	2726.00	cut	Sh/Clst: brn blk	0097-1L
				2732.00	cut	Sh/Clst: brn blk	0098-1L
2786.00	2792.00	com	0140-0B is composed of:	2786.00	cut	Sh/Clst: brn blk	0108-1L
				2792.00	cut	Sh/Clst: brn blk	0109-1L
2807.00	2816.00	com	0141-0B is composed of:	2807.00	cut	Sh/Clst: brn blk	0112-1L
				2810.00	cut	Sh/Clst: brn blk	0113-1L
				2816.00	cut	Sh/Clst: brn blk	0114-1L

Table 5: Saturated Hydrocarbon Ratios for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	<u>Pristane</u>	<u>Pristane</u>	<u>Pristane/nC17</u>	<u>Phytane</u>	CPI1	<u>nC17</u>	Sample
			nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
1325.00	com	bulk	1.05	1.23	1.15	0.91	1.93	0.56	0136-0B
2720.00	com	bulk	1.11	1.52	1.25	0.88	0.98	0.91	0137-0B
2732.00	com	bulk	1.04	1.44	1.21	0.86	0.94	0.92	0138-0B
2756.00	cut	Sh/Clst: brn blk	0.89	1.39	1.12	0.80	0.96	0.91	0102-1L
2762.00	cut	Sh/Clst: brn blk	0.96	1.14	1.00	0.96	1.03	0.88	0103-1L
2792.00	com	bulk	1.09	1.31	1.08	1.01	1.00	0.89	0140-0B
2816.00	com	bulk	1.02	1.37	1.13	0.91	1.06	0.86	0141-0B

Table 6a: Aromatic Hydrocarbon Ratios for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT (3+2) /1MDBT	Sample	
1325.00	com	bulk	-	-	-	-	-	-	-	-	-	0136-0B	
2720.00	com	bulk	0.93	1.88	0.11	0.69	0.57	0.57	0.74	0.58	0.21	0.07	0137-0B
2732.00	com	bulk	0.85	1.42	0.04	0.75	0.63	0.63	0.78	0.61	0.22	0.08	0138-0B
2756.00	cut	Sh/Clst: brn blk	0.80	1.48	0.06	0.80	0.65	0.65	0.79	0.47	0.33	0.11	0102-1L
2762.00	cut	Sh/Clst: brn blk	0.91	1.67	0.08	0.75	0.58	0.58	0.75	0.39	0.29	0.09	0103-1L
2792.00	com	bulk	0.91	1.31	0.07	0.81	0.60	0.60	0.76	0.44	0.32	0.10	0140-0B
2816.00	com	bulk	0.68	1.21	0.08	0.83	0.65	0.65	0.79	0.45	0.27	0.09	0141-0B

Table 6b: Aromatic Hydrocarbon Ratios for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
1325.00	com	bulk	-	-	0136-0B
2720.00	com	bulk	0.41	0.21	0137-0B
2732.00	com	bulk	0.43	0.22	0138-0B
2756.00	cut	Sh/Clst: brn blk	0.44	0.22	0102-1L
2762.00	cut	Sh/Clst: brn blk	0.42	0.21	0103-1L
2792.00	com	bulk	0.44	0.22	0140-0B
2816.00	com	bulk	0.45	0.22	0141-0B

Table 7 : Thermal Maturity Data for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1025.00	cut	Sh/Clst: lt ol gy to m gy	0.22	4	0.02	-	3.0	410	0002-1L
1105.00	cut	Sh/Clst: ol gy to m gy	0.24	20	0.04	-	-	409	0006-1L
1205.00	cut	Sh/Clst: ol gy to m gy	0.30	20	0.05	-	3.0(?)	404	0011-1L
1305.00	cut	Sh/Clst: m brn gy to dsk y brn	0.28	20	0.04	-	4.0(?)	408	0016-1L
1405.00	cut	Sh/Clst: lt brn gy to dsk y brn	0.28	20	0.04	-	4.0(?)	416	0021-1L
1505.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.28	20	0.05	-	3.5(??)	416	0026-1L
1605.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.25	14	0.02	-	4.0-4.5	427	0031-1L
1705.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.36	20	0.04	-	-	425	0036-1L
1745.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	-	-	-	-	4.5(?)	429	0038-1L
1805.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.36	20	0.05	-	-	419	0041-1L
1865.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	-	-	-	-	4.5-5.0	428	0044-1L



Table 7 : Thermal Maturity Data for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1905.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.43	20	0.05	-	-	421	0046-1L
1965.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	-	-	-	-	4.5-5.0(?)	419	0049-1L
2005.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.46	19	0.03	-	-	422	0051-1L
2105.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	0.48	20	0.04	-	-	419	0056-1L
2705.00	cut	Sh/Clst: brn blk	0.42	18	0.04	-	6.0(??)	429	0093-3L
2732.00	cut	Sh/Clst: brn blk	-	-	-	-	5.5(?)	425	0098-1L
2747.00	cut	Sh/Clst: brn blk	0.43	19	0.04	-	-	427	0101-1L
2756.00	cut	Sh/Clst: brn blk	-	-	-	-	5.5-6.0(?)	424	0102-1L
2762.00	cut	Sh/Clst: brn blk	-	-	-	-	6.0(?)	427	0103-1L
2792.00	cut	Sh/Clst: brn blk	-	-	-	-	6.0(?)	427	0109-1L
2810.00	cut	Sh/Clst: brn blk	0.45	16	0.03	-	5.5-6.0	429	0113-1L

Table 8 : Visual Kerogen Composition Data for well NOCS 15/12-2

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	D	I	S	I	M	S	V	C	V	A	Sample								
			I	m	i	p	u	R	A	B	N	F	e	n	c	B	I		T	o	i					
			P	o	p	/	t	e	l	n	c	r	t	R	s	F	D	r	e	t	R	l	l	D	r	t
			T	r	D	P	i	s	g	o	r	t	T	i	u	t	n	o	I	%	n	n	t	V	V	
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n	o	I	%	n	n	t	V	V	
1025.00	cut	Sh/Clst: lt ol gy to m gy	90	**	*	*		*	*			10	*					TR		*					0002-1L	
1205.00	cut	Sh/Clst: ol gy to m gy	85	*	**	*		*	**			10	*					5		*					0011-1L	
1305.00	cut	Sh/Clst: m brn gy to dsk y brn	45		**	*	?	*	*			TR	*					55		*	**				0016-1L	
1405.00	cut	Sh/Clst: lt brn gy to dsk y brn	60		**	*		*	*			5	*					35		*	**				0021-1L	
1505.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	65		**	*		*	*			10	*					25		*					0026-1L	
1605.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	75	*	**	*		*	*			5	*	**				20	*	**					0031-1L	
1745.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	55	*	**	*	*	*	*			15	*	*				30	**	*					0038-1L	
1865.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	80	*	**	*		*	*			10	*					10		*					0044-1L	
1965.00	cut	Sh/Clst: ol gy to lt brn gy to dsk y brn	85		**	*		*	*			5	*					10	*	**					0049-1L	
2705.00	cut	Sh/Clst: brn blk	90	**	*	*		**	*			10	*					TR		*					0093-3L	
2732.00	cut	Sh/Clst: brn blk	90	**	*	*		**	*			10	*					TR		*					0098-1L	
2756.00	cut	Sh/Clst: brn blk	85	**	*	*	?	**	*			15	*					TR		*					0102-1L	

Table 8 : Visual Kerogen Composition Data for well NOCS 15/12-2

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
2762.00	cut	Sh/Clst: brn blk	90	**	*	*	*	**	*	10	*			TR	*			0103-1L				
2792.00	cut	Sh/Clst: brn blk	85	**	*	*	*	**	*	15	*			TR	*			0109-1L				
2810.00	cut	Sh/Clst: brn blk	90	**	*	*	*	**	*	10	*			TR	*			0113-1L				

Table 9a: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 15/12-2

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
1325.00	com	Composite sample	-	-28.00	-27.89	-27.30	-27.59	-	0136-0
2720.00	com	Composite sample	-31.65	-31.80	-31.12	-31.21	-30.30	-	0137-0
2762.00	cut	Sh/Clst	-29.00	-29.24	-28.24	-28.37	-27.83	-	0103-1
2792.00	com	Composite sample	-28.78	-29.41	-28.54	-	-28.46	-	0140-0

Table 9b: Tabulation of cv values from carbon isotope data for well NOCS 15/12-2

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
1325.00	com	Composite sample	-28.00	-27.89	-2.73	0136-0
2720.00	com	Composite sample	-31.80	-31.12	-0.28	0137-0
2762.00	cut	Sh/Clst	-29.24	-28.24	-0.37	0103-1
2792.00	com	Composite sample	-29.41	-28.54	-0.60	0140-0

Table 10a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 15/12-2

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
1325.00	bulk	10.32	0.91	0.18	1.15	0.54	0.04	0.03	0.03	0.03	0.06	0.54	0.54	0.88	34.52	0136-0
2720.00	bulk	3.29	0.77	0.22	0.58	0.37	0.06	0.34	0.59	0.25	0.07	0.86	0.37	0.18	58.06	0137-0
2762.00	Sh/Clst	2.62	0.72	0.17	0.57	0.36	0.06	0.83	1.44	0.45	0.06	0.86	0.36	0.16	57.59	0103-1
2792.00	bulk	2.95	0.75	0.16	0.49	0.33	0.05	0.80	1.64	0.45	0.07	0.88	0.33	0.14	59.45	0140-0

List of Triterpane Distribution Ratios

Ratio 1:  $B / A$

Ratio 2:  $B / B+A$

Ratio 3:  $B / B+E+F$

Ratio 4:  $C / E$

Ratio 5:  $C / C+E$

Ratio 6:  $X / E$

Ratio 7:  $Z / E$

Ratio 8:  $Z / C$

Ratio 9:  $Z / Z+E$

Ratio 10:  $Q / E$

Ratio 11:  $E / E+F$

Ratio 12:  $C+D / C+D+E+F$

Ratio 13:  $D+F / C+E$

Ratio 14:  $J1 / J1+J2$  (%)

Table 10b: Variation in Sterane Distribution (peak height) SIR for Well NOCS 15/12-2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
1325.00	bulk	0.32	5.70	26.45	0.68	0.76	0.17	0.13	0.15	0.06	0.19	0136-0
2720.00	bulk	0.48	32.16	48.22	1.71	0.59	0.28	0.20	0.32	0.47	0.69	0137-0
2762.00	Sh/Clst	0.52	34.95	48.66	2.08	0.58	0.23	0.16	0.32	0.54	0.73	0103-1
2792.00	bulk	0.58	39.00	54.12	1.70	0.60	0.26	0.18	0.37	0.64	0.97	0140-0



## List of Sterane Distribution Ratios

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Ratio 1:  $a / a+j$

Ratio 2:  $q / q+t$  (%)

Ratio 3:  $2*(r+s) / (q+t + 2*(r+s))$  (%)

Ratio 4:  $a+b+c+d / h+k+l+n$

Ratio 5:  $r+s / r+s+q$

Ratio 6:  $u+v / u+v+q+r+s+t$

Ratio 7:  $u+v / u+v+i+m+n+q+r+s+t$

Ratio 8:  $r+s / q+r+s+t$

Ratio 9:  $q / t$

Ratio 10:  $r+s / t$

Table 10c: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 15/12-2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
1325.00	bulk	0.42	0.35	0.13	0.17	0.16	0136-0
2720.00	bulk	0.80	0.73	0.39	0.52	0.45	0137-0
2762.00	Sh/Clst	0.60	0.55	0.22	0.29	0.26	0103-1
2792.00	bulk	0.39	0.33	0.12	0.16	0.16	0140-0

Ratio1:  $a1 / a1 + g1$

Ratio2:  $b1 / b1 + g1$

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

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

Ratio5:  $a1 / a1 + d1$

Table 10d: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 15/12-2

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>
1325.00	bulk	0.57	0.27	0.38	0.30	0136-0
2720.00	bulk	0.48	0.26	0.34	0.28	0137-0
2762.00	Sh/Clst	0.66	0.43	0.48	0.40	0103-1
2792.00	bulk	0.95	0.82	0.92	0.89	0140-0

Ratio1: A1 / A1 + E1  
 Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1  
 Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
1325.00	bulk	0.08	0.92	0136-0
2720.00	bulk	-	1.00	0137-0
2762.00	Sh/Clst	-	1.00	0103-1
2792.00	bulk	-	1.00	0140-0

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

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

Table 10f: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 15/12-2

Depth unit of measure: m

Depth	Lithology	P	Q	R	S	T	A	B	Z	C	Sample
		X	D	E	F	G	H	I	J1	J2	
		K1	K2	L1	L2	M1	M2				
1325.00	bulk	10280.7 3113.0 3445.9	4281.8 78837.8 2688.8	3116.1 75919.5 4407.3	3583.8 64782.9 1180.5	668.4 17863.4 2200.1	3051.8 0.0 1674.1	31488.0 30221.7	2640.5 3879.0	87619.2 7356.9	0136-0
2720.00	bulk	18104.5 6590.8 31533.1	7475.6 12330.2 22461.3	7128.9 114999.8 24794.1	6754.0 19437.9 12009.7	2913.9 51350.3 29140.1	11376.8 34561.3 17726.8	37382.6 12281.6	38986.4 29415.3	66449.8 21246.6	0137-0
2762.00	Sh/Clst	62417.4 32537.4 159921.1	31771.6 49396.7 111807.1	25959.0 525380.6 108112.2	31042.6 86867.0 57914.2	12365.4 250145.4 105217.8	48419.9 168672.6 80856.5	126932.4 56643.5	433962.8 153828.4	301934.6 113282.5	0103-1
2792.00	bulk	23457.3 10309.9 45409.3	13353.8 14758.9 30133.6	10254.3 204029.9 29678.1	11086.4 27571.2 15514.9	4395.7 95372.1 30169.4	15037.2 58560.4 18866.9	44331.6 16388.1	163719.3 51300.1	99605.1 34996.1	0140-0

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					
1325.00	bulk	6111.9	1596.1	4405.7	2711.2	1046.0	1398.9	1967.3	1293.1	3713.4	0136-0
		8487.5	4115.1	9191.1	2594.0	1313.1	8981.2	1642.9	3493.5		
		3576.7	1825.7	4732.5	1029.6	30223.8					
2720.00	bulk	26598.1	7765.9	59653.1	40005.2	17618.3	17493.6	24231.2	18983.1	32482.3	0137-0
		29098.8	18170.6	64317.7	24608.0	10273.2	17777.1	14716.3	14575.4		
		29625.9	19128.1	17822.2	9868.0	40343.5					
2762.00	Sh/Clst	116667.0	43064.2	436562.6	273857.4	122075.6	134294.4	147745.9	115698.9	245645.0	0103-1
		168724.8	113534.0	406456.8	143451.1	65109.3	109640.7	88179.6	83605.7		
		172873.1	127631.4	114321.9	58720.9	237562.1					
2792.00	bulk	41793.3	11070.9	105169.9	65439.6	28573.4	30265.8	38586.8	29258.3	59632.9	0140-0
		53060.3	34971.2	75832.2	40875.8	18212.6	27553.3	22788.7	23690.2		
		36923.0	36307.4	34055.4	20847.7	56781.4					

Table 10h: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 15/12-2

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
1325.00	bulk	5874.2	4402.7	10005.5	29882.1	8526.6	12743.5	8190.5	0136-0
2720.00	bulk	58887.2	39379.7	25858.9	71055.9	13596.4	25844.9	14583.8	0137-0
2762.00	Sh/Clst	67740.4	53366.0	68538.3	196406.1	44790.0	76714.5	44457.5	0103-1
2792.00	bulk	56335.4	43695.5	114011.2	296279.7	91645.8	124582.9	87964.3	0140-0

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
1325.00	bulk	1936.5	536.7	369.0	210.3	1473.8	0.0	1636.9	1387.3	682.6	0136-0
2720.00	bulk	65.6	25.0	18.3	21.7	71.6	9.5	56.8	33.5	17.4	0137-0
2762.00	Sh/Clst	82.2	32.1	16.1	23.4	42.1	9.9	48.3	19.8	12.9	0103-1
2792.00	bulk	5406.2	1369.7	160.5	72.7	308.7	15.2	193.4	57.3	25.4	0140-0