

## RFT PRESSURE MEASUREMENT REPORT

### WELL DATA

Name 16/10-2 Rotary Table Elevation 25m Depth 3150m (Vert. --)  
 Last casing shoe  $\varnothing$  9 5/8" at 2777m Well  $\varnothing$   
 Max. hole deviation .....

### MUD DATA

Type SWLS Density 1.31 kg/ft Viscosity 60 Water loss 4.2  
 pH 9.0 Salinity 3.7 g/l NaCl ..... Rm 855 at 21°C Rmf 605 at 20°

### PRESSURE MEASUREMENTS

Test N°	Depth m/ft	Initial Hydrostatic Pressure	1st Pre-test	2nd Pre-test	Formation Pressure PSIA	Final Hydrostatic Pressure	Permeability Evaluation
1	2863.5	5421	-	-	4901.9	5420	Tight
2	2876.0	5446	(fluid sample)		4868.6	5442	Moderate
3	2885.5	5461	-	-	4877.6	5460	Good
4	2900.3	5489	-	-	4899.5	5487	Good
5	2907.5	5501	-	-	4912.0	5500	Excellent
6	2916.0	5517	-	-	4923.6	5516	Moderate
7	3057.3	5780	-	-	5142.5	5778	Good
8	3073.5	5809	-	-	5171.8	5808	Good
9	3115.5	5885	-	-	5236.6	5884	Excellent
10	3119.5	5891	-	-	5241.3	5890	Moderate
11	3130.5	5911	-	-	5256.9	5909	Good
12	3139.5	5926	-	-	5278.2	5925	Moderate

### NOTES

Segregated sample at 2876m.

2 3/4 GAL Chamber: 250cc water at 7755 PPM NACL

PH 7.2 (mud filtrate contamin.)

1 GAL Chamber : 100cc water at 22275 PPM NACL

PH 7.7 (mud filtrate contamin.)

Date 27.07.91 Compiled by P. Davies Well logging Operator Schlumberger

## FORMATION TESTING REPORT

### WELL DATA

Name 16/10-2 Rotary table elevation 25 m Depth 3150 m  
 Last casing shoe  $\varnothing$  9.5/8" at 2776 m hole diameter 8.1/2"  
 Max. hole deviation .....

### MUD DATA

Type SW/LS/GEL Density 1.31 Viscosity 60 Water loss 4.2  
 pH 8.5 Salinity 3500 ppm Rm .855 Rmf .605 at 21/20°C

### TOOL DATA

Type Dual segregated chamber RFT Chambre volume 1 2 3/4 gal  
 2 1 gal  
 Sampling chamber chokes 12 in<sup>2</sup> Multiplying factor x 4

### TEST DATA

Test N° 2 (RFT prog) Depth 2876 m  
 Hopen hole  Cased hole  Method ..... Technique .....

### PRESSURE AND TIME DATA

Initial hydrostatic 5445.7  $\frac{\text{psi}}{\text{atm}}$  Sampling pressure 4868.6  $\frac{\text{psi}}{\text{atm}}$  Samplig time 32m.24s. - 1gal  
 Final shut in 4870.9  $\frac{\text{psi}}{\text{atm}}$  Shut in time 10 mins  
 Final hydrostatic \*  $\frac{\text{psi}}{\text{atm}}$  Chamber at surface  $\frac{\text{psi}}{\text{atm}}$

### RECOVERY AND ANALYSIS DATA (1 GAL CHAMBER)

Gas -  $\frac{\text{cuft}}{\text{cucm}}$  Condensate cucm - °API  
 Oil - cucm °API - GOR -  $\frac{\text{cuft/bbl or cum/cum}}$   
 Water 100 cucm Density ..... Salinity 13,500 pH 7.7 Rrf ..... At .....  
 Mud - cucm Density ..... Salinity ..... pH ..... Sand ..... cucm

Water samples contaminated by mud filtrate

### RESULTS

\* Low K - Final building terminated after 15 minutes  
 Plugged nozzles/chokes - sand  
 HP/strain ganges OK  
 \* 2 3/4 gal chamber, Salinity 4.700 ppm PH 7.2

Date 28.07.91 Compiled by P. Davies Checked by ..... Well logging operator .....

### 4.2.3 Drilling Fluids

Two main drilling mud systems were used in this well:

A Gypsum seawater polymer system for the 17 ½" and 12 ½" section chosen for its good shale inhibitive properties and a chrome free Anchotemp seawater system for the higher temperatures (+/- 110 degrees C) of the 8 ½" hole section. Both systems performed well providing good encapsulation of the formation and cuttings and are recommended for future use in this area and depth of drilling.

Mud maintenance costs for the 12 ½" hole section were considerably higher, \$ 160 000 compared to the programmed \$ 85 000. Apart from the extra 3-4 days required to drill the 12 ½" hole, primary reason for the higher costs was the increased barite consumption and higher daily dilution rates required to compensate for sub optimal solids control equipment. The rig was equipped with 3 Thule shale shakers lined in parallel, a desander and a desilter.

An improved solids control system (possibly incorporating cetrifuge(s)) for the recovery of barite could yield potential cost savings, considering that 40% of the overall mud cost was for Barite. This aspect should be carefully evaluated for future wells in the area.

Table 4.2.3.1 summarizes the daily mud properties during the course of drilling well 16/10-2.

For additional details see section 4.3 attachment 7 Drilling Fluids report by Anchor A/S.

4.2.3.1

MUD PROPERTIES

WELLNAME: 16/10-2      API No. :  
 WELL No.: 16/10-2      AFE No. : 1234  
 RIG : BYFORD DOLPHIN      FIELD : 16/10

MUD PROPERTIES FROM REPORT No. 1 TO REPORT No. 47

DATE	DSS	MBT	MW	FV	PV	YP	GELS		API	HPHT	HPHT	GYP	OIL		CAKE	CALCIUM	NaCl	SOLID SAND		Pf	OIL/	ELEC	
							SEC	MIN	WL	WL	TEMP		pH	%	TYPE MUD	PPM	PPM	%	%		H2O	STAB	
06/18/91	0	0.0	1.05	99	0	0	0	0	0	0	0	0.0	9	0.0	SPUD MUD	0.0	0	0	0.0	0.0	0.0	0.000	0.0ER.TMP
06/19/91	0	0.0	1.04	99	0	0	0	0	0	0	0	0.0	9	0.0	SPUD MUD	0.0	0	0	0.0	0.0	0.0	0.000	0.0ER.TMP
06/20/91	1	0.0	1.04	99	0	0	0	0	0	0	0	0.0	9	0.0	SPUD MUD	0.0	0	0	0.0	0.0	0.0	0.000	0.0ER.TMP
06/21/91	2	0.0	1.04	99	0	0	0	0	0	0	0	0.0	9	0.0	SPUD MUD	0.0	0	0	0.0	0.0	0.0	0.000	0.0ER.TMP
06/22/91	3	0.0	1.04	99	0	0	0	0	0	0	0	0.0	9	0.0	SPUD MUD	0.0	0	0	0.0	0.0	0.0	0.000	0.0ER.TMP
06/23/91	4	0.0	1.04	99	0	0	0	0	0	0	0	0.0	9	0.0	SW GY PO	0.0	0	0	0.0	0.0	0.0	0.000	0.0ER.TMP
06/24/91	5	0.0	1.05	70	13	8	1	1	10	0	0	7.0	9	0.0	SW GY PO	2.0	4500	37125	3.0	0.0	0.1	0.000	0.0ER.TMP
06/25/91	6	10.3	1.05	73	13	8	1	1	10	0	0	7.0	9	0.0	SW GY PO	1.0	4500	37125	3.0	0.0	0.1	0.000	0.0ER.TMP
06/26/91	7	28.5	1.12	45	12	10	2	2	5	0	0	7.0	8	0.0	SW GY PO	1.0	4100	37125	6.0	0.3	0.1	0.000	0.0ER.TMP
06/27/91	8	48.5	1.18	52	15	6	2	9	4	0	0	6.8	8	0.0	SW GY PO	3.0	3900	37125	8.0	0.5	0.1	0.000	0.0ER.TMP
06/28/91	9	48.5	1.22	56	16	9	2	8	4	0	0	7.0	8	0.0	SW GY PO	1.0	3950	37125	9.0	0.5	0.1	0.000	0.0ER.TMP
06/29/91	10	40.0	1.21	49	13	4	1	3	4	0	0	7.4	8	0.0	SW GY PO	1.0	4200	37125	9.0	1.5	0.1	0.000	0.0ER.TMP
06/30/91	11	51.0	1.25	54	17	6	1	4	4	0	0	7.5	8	0.0	SW GY PO	1.0	4200	37125	11.0	1.0	0.0	0.000	0.0ER.TMP
07/01/91	12	45.0	1.25	52	19	6	1	5	4	0	0	7.7	8	0.0	SW GY PO	1.0	4300	37950	11.0	0.0	0.0	0.000	0.0ER.TMP
07/02/91	13	45.0	1.25	58	18	4	1	3	4	0	0	7.7	8	0.0	SW GY PO	1.0	4200	37950	11.0	0.5	0.0	0.000	0.0ER.TMP
07/03/91	14	42.0	1.25	50	16	4	1	3	4	0	0	8.0	8	0.0	SW GY PO	1.0	4200	37950	11.0	0.5	0.0	0.000	0.0ER.TMP
07/04/91	15	32.0	1.32	45	14	4	1	3	5	0	0	6.7	10	0.0	SW GY PO	1.0	3600	37950	13.5	0.5	0.2	0.000	0.0ER.TMP
07/05/91	16	35.0	1.40	47	17	6	1	4	5	0	0	6.6	9	0.0	SW GY PO	1.0	3400	37950	16.0	0.5	0.1	0.000	0.0ER.TMP
07/06/91	17	42.0	1.40	52	21	8	2	12	6	0	0	7.3	8	0.0	SW GY PO	1.0	3290	37950	16.0	0.3	0.1	0.000	0.0ER.TMP
07/07/91	18	42.0	1.40	48	17	5	1	6	5	0	0	7.3	7	0.0	SW GY PO	1.0	3600	37950	16.0	0.3	0.1	0.000	0.0ER.TMP
07/08/91	19	45.0	1.40	52	21	6	1	6	4	0	0	7.6	8	0.0	SW GY PO	1.0	3800	37950	16.0	0.3	0.0	0.000	0.0ER.TMP
07/09/91	20	45.0	1.50	52	29	6	1	7	4	0	0	7.7	8	0.0	SW GY PO	1.0	3860	37950	18.0	0.3	0.0	0.000	0.0ER.TMP
07/10/91	21	42.0	1.50	50	27	5	1	5	4	0	0	7.6	8	0.0	SW GY PO	1.0	3900	37950	18.0	0.5	0.0	0.000	0.0ER.TMP
07/11/91	22	47.0	1.55	56	27	7	1	6	4	0	0	7.6	8	0.0	SW GY PO	1.0	3800	37950	20.0	0.5	0.0	0.000	0.0ER.TMP
07/12/91	23	42.0	1.55	56	26	5	1	5	4	0	0	7.7	8	0.0	SW GY PO	1.0	4000	38775	21.0	0.5	0.0	0.000	0.0ER.TMP
07/13/91	24	40.0	1.55	56	22	5	1	5	4	0	0	7.8	8	0.0	SW GY PO	1.0	4000	38775	20.0	0.5	0.0	0.000	0.0ER.TMP
07/14/91	25	40.0	1.55	53	24	4	1	4	4	0	0	7.6	8	0.0	SW GY PO	1.0	4000	37950	20.0	0.5	0.0	0.000	0.0ER.TMP
07/15/91	26	42.0	1.55	56	26	6	1	4	3	0	0	7.6	8	0.0	SW GY PO	1.0	4200	37950	20.0	0.5	0.0	0.000	0.0ER.TMP
07/16/91	27	40.0	1.55	53	27	6	1	3	3	0	0	7.6	8	0.0	SW GY PO	1.0	4200	23500	20.0	0.3	0.0	0.000	0.0ER.TMP
07/17/91	28	35.0	1.55	58	29	7	1	3	3	0	0	7.7	8	0.0	SW GY PO	1.0	4160	23500	20.0	0.3	0.0	0.000	0.0ER.TMP
07/18/91	29	40.0	1.55	57	27	6	1	3	3	0	0	7.9	7	0.0	SW GY PO	1.0	4250	23000	20.0	0.5	0.0	0.000	0.0ER.TMP
07/19/91	30	40.0	1.55	58	32	8	1	3	3	0	0	7.6	8	0.0	SW GY PO	1.0	4150	23000	20.0	0.5	0.0	0.000	0.0ER.TMP
07/20/91	31	40.0	1.55	57	29	6	1	2	3	0	0	7.7	8	0.0	SW GY PO	1.0	4100	23000	20.0	0.5	0.0	0.000	0.0ER.TMP
07/21/91	32	36.0	1.55	53	28	6	1	3	3	0	0	7.3	7	0.0	SW GY PO	1.0	4150	23000	20.0	0.5	0.0	0.000	0.0ER.TMP
07/22/91	33	36.0	1.55	55	28	6	1	3	3	0	0	7.3	8	0.0	SW GY PO	1.0	4200	23000	20.0	0.5	0.0	0.000	0.0ER.TMP

4.2.3.1

MUD PROPERTIES

WELLNAME: 16/10-2      API No. :  
 WELL No.: 16/10-2      AFE No. : 1234  
 RIG : BYFORD DOLPHIN      FIELD : 16/10

MUD PROPERTIES FROM REPORT No. 1 TO REPORT No. 47

DATE	DSS	MHT	MW	FV	PV	YP	GELS SEC	API MIN	HPHT WL	HPHT WL	HPHT TEMP	GYP	pH	OIL %	TYPE	MUD	CAKE	CALCIUM PPM	NaCl PPH	SOLID %	SAND %	Pf	OIL/ H2O	ELEC STAB	
07/23/91	34	40.0	1.55	53	27	7	1	3	3	0	0	7.6	8	0.0	SW GY PO	1.0	4200	23000	20.0	0.5	0.0	0.000	0.0ER.TMP		
07/24/91	35	40.0	1.55	51	27	7	1	2	3	0	0	7.6	7	0.0	SW GY PO	1.0	4100	23000	20.0	0.5	0.0	0.000	0.0ER.TMP		
07/25/91	36	42.0	1.55	52	27	7	1	2	3	0	0	0.0	8	0.0	SW GY PO	1.0	4250	23000	20.0	0.5	0.0	0.000	0.0ER.TMP		
07/26/91	37	45.0	1.31	45	15	7	2	5	3	0	0	0.0	8	0.0	SW LS PO	1.0	400	2700	13.5	0.5	0.0	0.000	0.0ER.TMP		
07/27/91	38	48.0	1.30	45	20	6	2	7	4	0	0	0.0	9	0.0	SW LS PO	1.0	500	2900	13.5	0.5	0.0	0.000	0.0ER.TMP		
07/28/91	39																							ER.TMP	
07/29/91	40																							ER.TMP	
07/30/91	41																							ER.TMP	
07/31/91	42																							ER.TMP	
08/01/91	43																							ER.TMP	
08/02/91	44																							ER.TMP	
08/03/91	45																							ER.TMP	

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REGISTERED  
GEOCHEMISTRY

**Geochemical Report for**

**Well NOCS 16/10-2**

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## *Chapter 1*

# Introduction

## 1.1 General Comments

Analysis of Well NOCS 16/10-2 was undertaken on behalf of Norsk Agip for identification and examination of source rocks.

A total of 156 samples (63 canned samples + 19 side wall core samples + 74 cuttings samples) was received by Geolab Nor for geochemical analyses. First the screening analyses were performed and subsequently a selected suite of samples underwent a detailed follow-up analysis program. The samples for the follow-up analyses consisted of both cuttings and side wall core material, and the selection was made on the basis of screening analyses results.

The report is presented, chapter and section-wise, in chronological order of analyses, beginning with the first screening analyses. Each section discusses the results, where ever possible, in a stratigraphic context (top to bottom).

## 1.2 Analytical Program

In accordance with the contract, sample availability and the screening analyses results, the following analytical program was executed for well NOCS 16/10-2 in the section from 420 to 3150 m (ca Total Depth):

<u>Analysis type</u>	<u>No of samples</u>	<u>Figures</u>	<u>Tables</u>
Head space and occluded gas	63	2a-c	1a-c
Washing	137		
Lithology description	93	3	2
Rock-Eval pyrolysis/TOC	93	4,5,6	3
Thermal extraction GC (GHM, S <sub>1</sub> )	8	7a-c	
Pyrolysis GC (GHM, S <sub>2</sub> )	8	8a-c,9	4
Soxhlet extraction of organic matter	8		
MPLC/HPLC separation	6		5
Saturated hydrocarbon GC	6	10a-c	6
Aromatic hydrocarbon GC	6	11a-c	7
Vitrinite reflectance	15	12	8
Visual kerogen microscopy	8	13	9
Isotope composition C <sub>15</sub> + fractions	6	14,15	10a-b
GC - MS of saturated and aromatic HC	6	16a-k	11a-i

All the cuttings samples were supplied by Norsk Agip as wet / canned samples, wet samples in bags and side wall cores. The stratigraphy was also supplied by the client and this report has used the formation tops obtained from the client.



Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
640.00	9433*	20516	2266	991	1045	5680	9458*	24818	0.3	0.95
700.00	1785	1	1	-	-	-	1787	2	0.1	-
760.00	5314*	3330	775	397	308	4869	5319*	4810	0.1	1.29
820.00	216924	45	16	1	1	22	216987	63	-	1.00
880.00	90463	225	22	5	12	14	90727	264	0.3	0.42
940.00	54229	136	16	4	6	48	54391	162	0.3	0.67
1000.00	60045	218	14	3	8	11	60288	243	0.4	0.38
1060.00	18994	50	2	-	-	1	19046	52	0.3	-
1120.00	15124	21	2	-	-	2	15147	23	0.2	-
1180.00	503	68	39	-	3	6	613	110	17.9	-
1240.00	4079	16	1	-	-	15	4096	17	0.4	-
1300.00	1849	9	1	-	-	2	1859	10	0.5	-
1360.00	100487	492	190	227	52	448	101448	961	1.0	4.37
1420.00	11224	60	40	3	1	19	11328	104	0.9	3.00
1480.00	18743	175	198	41	43	119	19200	457	2.4	0.95
1540.00	14609	238	197	6	3	42	15053	444	3.0	2.00
1600.00	30297	175	269	72	30	61	30843	546	1.8	2.40
1660.00	803	34	45	14	5	10	901	98	10.9	2.80
1720.00	2979	106	122	39	19	70	3265	286	8.8	2.05
1780.00	11098	277	300	96	54	61	11825	727	6.2	1.78
1840.00	72	7	11	3	2	-	95	23	24.2	1.50
1900.00	5206	164	165	50	23	33	5608	402	7.2	2.17
1960.00	5649	218	278	97	43	79	6285	636	10.1	2.26

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2020.00	6690	174	160	58	23	41	7105	415	5.8	2.52
2080.00	2232	58	76	37	16	53	2419	187	7.7	2.31
2100.00	722	22	58	33	18	28	853	131	15.4	1.83
2130.00	499	11	19	10	6	8	545	46	8.4	1.67
2160.00	811	30	42	29	20	51	932	121	13.0	1.45
2190.00	691	19	36	28	25	82	799	108	13.5	1.12
2220.00	2373	59	113	68	68	121	2681	308	11.5	1.00
2250.00	4274	165	313	197	184	553	5133	859	16.7	1.07
2280.00	1387	32	57	40	34	71	1550	163	10.5	1.18
2310.00	757	16	31	24	20	69	848	91	10.7	1.20
2340.00	240	10	17	10	8	24	285	45	15.8	1.25
2370.00	378	12	21	13	10	42	434	56	12.9	1.30
2400.00	378	18	29	13	10	28	448	70	15.6	1.30
2430.00	185	8	17	10	8	31	228	43	18.9	1.25
2460.00	267	12	25	15	9	32	328	61	18.6	1.67
2490.00	273	17	32	16	10	20	348	75	21.6	1.60
2520.00	153	10	20	11	7	28	201	48	23.9	1.57
2550.00	201	15	24	12	7	20	259	58	22.4	1.71
2580.00	155	15	20	7	3	9	200	45	22.5	2.33
2610.00	320	24	38	20	11	81	413	93	22.5	1.82
2640.00	118	9	17	9	5	15	158	40	25.3	1.80
2670.00	904	75	99	35	17	42	1130	226	20.0	2.06
2700.00	497	47	50	16	8	18	618	121	19.6	2.00

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2730.00	237	12	19	8	4	5	280	43	15.4	2.00
2760.00	135	11	12	8	5	32	171	36	21.1	1.60
2790.00	143	20	42	18	22	56	245	102	41.6	0.82
2799.00	581	106	326	115	246	107	1374	793	57.7	0.47
2800.00	2316	879	2343	652	1764	1523	7954	5638	70.9	0.37
2860.00	85483	21063	40041	9930	22811	47526	179328	93845	52.3	0.44
2890.00	7719	4262	6793	1270	2755	2643	22799	15080	66.1	0.46
2892.00	2374	1087	1341	227	425	214	5454	3080	56.5	0.53
2920.00	882	535	744	134	227	130	2522	1640	65.0	0.59
2950.00	43132	30036	72968	17253	37778	55730	201167	158*	78.6	0.46
2980.00	254	131	299	67	158	184	909	655	72.1	0.42
3010.00	115	60	151	39	94	153	459	344	75.0	0.41
3040.00	85	35	80	19	50	47	269	184	68.4	0.38
3070.00	122	66	155	37	99	117	479	357	74.5	0.37
3100.00	118	56	152	37	95	59	458	340	74.2	0.39
3130.00	1907	86	241	60	146	228	2440	533	21.8	0.41
3150.00	1155	21	74	19	53	108	1322	167	12.6	0.36

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
640.00	306	10	4	-	1	5	321	15	4.7	-
700.00	36	1	1	-	-	2	38	2	5.3	-
760.00	756	16	4	-	1	3	777	21	2.7	-
820.00	595	18	5	1	1	6	620	25	4.0	1.00
880.00	204	6	2	-	1	2	213	9	4.2	-
940.00	262	8	2	-	-	4	272	10	3.7	-
1000.00	118	7	3	-	1	5	129	11	8.5	-
1060.00	121	8	4	1	2	7	136	15	11.0	0.50
1120.00	99	8	4	1	2	14	114	15	13.2	0.50
1180.00	555	50	20	3	8	47	636	81	12.7	0.38
1240.00	92	8	3	-	1	5	104	12	11.5	-
1300.00	116	9	4	-	1	5	130	14	10.8	-
1360.00	61	7	4	3	2	16	77	16	20.8	1.50
1420.00	37	1	1	1	-	7	40	3	7.5	-
1480.00	22	2	2	1	1	11	28	6	21.4	1.00
1540.00	19	3	8	6	4	8	40	21	52.5	1.50
1600.00	52	9	26	15	9	12	111	59	53.2	1.67
1660.00	16	4	17	9	6	14	52	36	69.2	1.50
1720.00	8	2	12	7	5	10	34	26	76.5	1.40
1780.00	16	3	15	9	7	17	50	34	68.0	1.29
1840.00	11	3	16	9	7	29	46	35	76.1	1.29
1900.00	23	10	42	19	12	19	106	83	78.3	1.58
1960.00	14	5	25	14	9	21	67	53	79.1	1.56

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2020.00	13	5	24	8	4	24	54	41	75.9	2.00
2080.00	11	2	10	7	5	11	35	24	68.6	1.40
2100.00	8	1	1	2	2	9	14	6	42.9	1.00
2130.00	15	2	1	1	1	9	20	5	25.0	1.00
2160.00	30	5	7	4	4	22	50	20	40.0	1.00
2190.00	38	6	9	6	7	55	66	28	42.4	0.86
2220.00	35	6	16	9	12	64	78	43	55.1	0.75
2250.00	25	4	15	17	23	67	84	59	70.2	0.74
2280.00	32	5	4	5	6	32	52	20	38.5	0.83
2310.00	24	3	3	3	4	19	37	13	35.1	0.75
2340.00	26	4	4	2	3	24	39	13	33.3	0.67
2370.00	39	6	6	5	12	118	68	29	42.7	0.42
2400.00	33	5	4	3	4	37	49	16	32.7	0.75
2430.00	36	6	4	3	4	30	53	17	32.1	0.75
2460.00	54	9	9	8	8	41	88	34	38.6	1.00
2490.00	47	8	5	2	3	16	65	18	27.7	0.67
2520.00	73	13	8	3	5	47	102	29	28.4	0.60
2550.00	39	7	9	6	6	27	67	28	41.8	1.00
2580.00	79	14	11	5	6	40	115	36	31.3	0.83
2610.00	93	17	11	4	6	46	131	38	29.0	0.67
2640.00	62	11	9	5	6	46	93	31	33.3	0.83
2670.00	52	10	23	15	15	84	115	63	54.8	1.00
2700.00	45	10	24	4	12	43	95	50	52.6	0.33

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2730.00	49	8	14	12	11	38	94	45	47.9	1.09
2760.00	64	11	6	2	4	29	87	23	26.4	0.50
2790.00	76	15	23	11	36	140	161	85	52.8	0.31
2799.00	40	10	64	30	150	141	294	254	86.4	0.20
2800.00	11562	20298	203*	101*	328*	623*	663683	652*	98.3	0.31
2860.00	150	336	2078	849	2377	3495	5790	5640	97.4	0.36
2890.00	138	24	276	82	299	430	819	681	83.2	0.27
2892.00	115	431	1487	399	914	742	3346	3231	96.6	0.44
2920.00	103	236	1219	315	811	876	2684	2581	96.2	0.39
2950.00	25	54	547	263	834	1446	1723	1698	98.6	0.32
2980.00	59	26	243	158	514	606	1000	941	94.1	0.31
3010.00	57	7	65	52	185	692	366	309	84.4	0.28
3040.00	90	7	31	30	115	652	273	183	67.0	0.26
3070.00	89	45	403	223	755	1546	1515	1426	94.1	0.30
3100.00	64	40	474	29	959	482	1566	1502	95.9	0.03
3130.00	106	13	162	120	447	1237	848	742	87.5	0.27
3150.00	90	8	8	5	20	182	131	41	31.3	0.25

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
640.00	9433*	20526	2270	991	1046	5685	9458*	24833	0.3	0.95
700.00	1821	2	2	-	-	2	1825	4	0.2	-
760.00	5315*	3346	779	397	309	4872	5320*	4831	0.1	1.28
820.00	217519	63	21	2	2	28	217607	88	-	1.00
880.00	90667	231	24	5	13	16	90940	273	0.3	0.38
940.00	54491	144	18	4	6	52	54663	172	0.3	0.67
1000.00	60163	225	17	3	9	16	60417	254	0.4	0.33
1060.00	19115	58	6	1	2	8	19182	67	0.4	0.50
1120.00	15223	29	6	1	2	16	15261	38	0.3	0.50
1180.00	1058	118	59	3	11	53	1249	191	15.3	0.27
1240.00	4171	24	4	-	1	20	4200	29	0.7	-
1300.00	1965	18	5	-	1	7	1989	24	1.2	-
1360.00	100548	499	194	230	54	464	101525	977	1.0	4.26
1420.00	11261	61	41	4	1	26	11368	107	0.9	4.00
1480.00	18765	177	200	42	44	130	19228	463	2.4	0.95
1540.00	14628	241	205	12	7	50	15093	465	3.1	1.71
1600.00	30349	184	295	87	39	73	30954	605	2.0	2.23
1660.00	819	38	62	23	11	24	953	134	14.1	2.09
1720.00	2987	108	134	46	24	80	3299	312	9.5	1.92
1780.00	11114	280	315	105	61	78	11875	761	6.4	1.72
1840.00	83	10	27	12	9	29	141	58	41.1	1.33
1900.00	5229	174	207	69	35	52	5714	485	8.5	1.97

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
( $\mu\text{l}$  gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1960.00	5663	223	303	111	52	100	6352	689	10.9	2.13
2020.00	6703	179	184	66	27	65	7159	456	6.4	2.44
2080.00	2243	60	86	44	21	64	2454	211	8.6	2.10
2100.00	730	23	59	35	20	37	867	137	15.8	1.75
2130.00	514	13	20	11	7	17	565	51	9.0	1.57
2160.00	841	35	49	33	24	73	982	141	14.4	1.38
2190.00	729	25	45	34	32	137	865	136	15.7	1.06
2220.00	2408	65	129	77	80	185	2759	351	12.7	0.96
2250.00	4299	169	328	214	207	620	5217	918	17.6	1.03
2280.00	1419	37	61	45	40	103	1602	183	11.4	1.13
2310.00	781	19	34	27	24	88	885	104	11.8	1.13
2340.00	266	14	21	12	11	48	324	58	17.9	1.09
2370.00	417	18	27	18	22	160	502	85	16.9	0.82
2400.00	411	23	33	16	14	65	497	86	17.3	1.14
2430.00	221	14	21	13	12	61	281	60	21.4	1.08
2460.00	321	21	34	23	17	73	416	95	22.8	1.35
2490.00	320	25	37	18	13	36	413	93	22.5	1.38
2520.00	226	23	28	14	12	75	303	77	25.4	1.17
2550.00	240	22	33	18	13	47	326	86	26.4	1.38
2580.00	234	29	31	12	9	49	315	81	25.7	1.33
2610.00	413	41	49	24	17	127	544	131	24.1	1.41
2640.00	180	20	26	14	11	61	251	71	28.3	1.27



Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 16/10-2

Well: AGIP NOCS 16/10-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2670.00	956	85	122	50	32	126	1245	289	23.2	1.56
2700.00	542	57	74	20	20	61	713	171	24.0	1.00
2730.00	286	20	33	20	15	43	374	88	23.5	1.33
2760.00	199	22	18	10	9	61	258	59	22.9	1.11
2790.00	219	35	65	29	58	196	406	187	46.1	0.50
2799.00	621	116	390	145	396	248	1668	1047	62.8	0.37
2800.00	13878	21177	206*	102*	329*	624*	671637	658*	97.9	0.31
2860.00	85633	21399	42119	10779	25188	51021	185118	99485	53.7	0.43
2890.00	7857	4286	7069	1352	3054	3073	23618	15761	66.7	0.44
2892.00	2489	1518	2828	626	1339	956	8800	6311	71.7	0.47
2920.00	985	771	1963	449	1038	1006	5206	4221	81.1	0.43
2950.00	43157	30090	73515	17516	38612	57176	202890	160*	78.7	0.45
2980.00	313	157	542	225	672	790	1909	1596	83.6	0.33
3010.00	172	67	216	91	279	845	825	653	79.2	0.33
3040.00	175	42	111	49	165	699	542	367	67.7	0.30
3070.00	211	111	558	260	854	1663	1994	1783	89.4	0.30
3100.00	182	96	626	66	1054	541	2024	1842	91.0	0.06
3130.00	2013	99	403	180	593	1465	3288	1275	38.8	0.30
3150.00	1245	29	82	24	73	290	1453	208	14.3	0.33

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
420.00						0020
	0.68	50	Marl	: lt y gy to lt brn y, calc		0020-1L
		50	Chert	: m gy to w to m red brn, hd, l		0020-2L
			tr Cont	: prp		0020-3L
440.00						0021
		45	Cont	: w, cem		0021-4L
		25	Chert	: m gy to w to m red brn, hd, l		0021-2L
	0.05	25	S/Sst	: w, hd, l		0021-3L
		5	Marl	: lt y gy to lt brn y, calc		0021-1L
480.00						0022
	0.82	75	Marl	: lt y gy to lt brn y, calc		0022-1L
		20	S/Sst	: w, hd, l		0022-3L
		5	Chert	: m gy to w to m red brn, hd, l		0022-2L
520.00						0023
	0.91	75	Marl	: lt gn gy to lt ol gy, calc		0023-1L
		20	S/Sst	: w, hd, l		0023-3L
		5	Chert	: m gy to w, hd, l		0023-2L
560.00						0024
	0.90	90	Marl	: lt gn gy to lt ol gy, calc		0024-1L
		10	S/Sst	: w, hd, l		0024-3L
			tr Chert	: m gy to w, hd, l		0024-2L
			tr Cont	: blk, Mica-ad		0024-4L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
600.00						0025
	0.50		90 Marl	: lt gn gy to lt ol gy, calc		0025-1L
			10 S/Sst	: w, hd, l		0025-3L
			tr Chert	: m gy to w, hd, l		0025-2L
640.00						0026
	0.47		70 Marl	: lt gn gy to lt ol gy, calc		0026-1L
			30 S/Sst	: w, l		0026-2L
			tr Cont	: blk, Mica-ad		0026-3L
680.00						0027
	0.70		50 Cont	: w, cem		0027-2L
			40 Sh/Clst	: lt ol gy, calc		0027-1L
			10 S/Sst	: w, l		0027-3L
720.00						0028
	0.49		70 S/Sst	: w, l		0028-3L
			30 Sh/Clst	: lt ol gy, calc		0028-1L
			tr Cont	: w, cem		0028-2L
760.00						0029
	0.12		95 S/Sst	: w, l		0029-3L
			5 Sh/Clst	: lt ol gy, calc		0029-1L
			tr Cont	: w, cem		0029-2L
800.00						0030
	0.64		75 Marl	: lt bl gy to lt gy, calc		0030-1L
			25 S/Sst	: w, l		0030-2L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
840.00						0031
	1.02		35	Chert : drk gy, hd		0031-4L
			30	Sh/Clst: lt gn gy to lt ol gy		0031-1L
			25	S/Sst : w, l		0031-2L
			10	Marl : lt bl gy, calc		0031-3L
880.00						0032
	0.99		40	Sh/Clst: lt gn gy to lt ol gy		0032-1L
			30	S/Sst : w, l		0032-2L
			20	Chert : drk gy, hd		0032-4L
			10	Marl : lt bl gy, calc		0032-3L
920.00						0034
	1.06		35	Sh/Clst: lt gn gy to lt ol gy		0034-1L
			35	Chert : drk gy, hd		0034-3L
			20	S/Sst : w, l		0034-2L
			5	Ca : w		0034-4L
			5	Other : y, pyr		0034-5L
960.00						0033
	0.87		45	Sh/Clst: lt gn gy to lt ol gy		0033-1L
			40	Ca : w		0033-4L
			10	Chert : drk gy, hd		0033-3L
			5	S/Sst : w, l		0033-2L
1000.00						0035
	1.63	100		Sh/Clst: m ol gy to lt y gy		0035-1L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1040.00						0036
	1.48	95	Sh/Clst:	m ol gy to lt y gy		0036-1L
		5	Sh/Clst:	m brn gy		0036-2L
1080.00						0037
	0.13	70	S/Sst	: w, l		0037-3L
		25	Sh/Clst:	m ol gy to lt y gy		0037-1L
		5	Sh/Clst:	m brn gy		0037-2L
1120.00						0038
	0.11	85	S/Sst	: w, l		0038-3L
		10	Sh/Clst:	m ol gy to lt y gy		0038-1L
		5	Sh/Clst:	drk gy		0038-2L
1160.00						0039
	0.14	95	S/Sst	: w, l		0039-3L
		5	Sh/Clst:	m ol gy to lt y gy		0039-1L
		tr	Sh/Clst:	drk gy		0039-2L
1200.00						0040
	2.57	90	Sh/Clst:	drk gy		0040-2L
		5	Sh/Clst:	m ol gy to lt y gy		0040-1L
		5	S/Sst	: w, l, glauc		0040-3L
1240.00						0041
	0.10	95	S/Sst	: w, l		0041-2L
		5	Sh/Clst:	drk gy		0041-1L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1280.00						0042
	0.11	95	S/Sst	: w, l		0042-2L
		5	Sh/Clst:	drk gy to lt gn gy		0042-1L
1320.00						0043
	5.26	85	Sh/Clst:	blk, lam		0043-3L
		10	S/Sst	: w, l		0043-2L
		5	Sh/Clst:	drk gy to lt gn gy		0043-1L
1360.00						0044
	4.94	90	Sh/Clst:	blk, lam		0044-3L
		10	S/Sst	: w, l		0044-2L
		tr	Sh/Clst:	drk gy to lt gn gy		0044-1L
1400.00						0045
	4.71	95	Sh/Clst:	blk, lam		0045-3L
		5	S/Sst	: w, l		0045-2L
		tr	Sh/Clst:	drk gy to lt gn gy		0045-1L
1440.00						0046
	1.98	80	Sh/Clst:	m drk gy		0046-1L
		15	Cont	: w, cem		0046-3L
		5	Ca	: w		0046-2L
1480.00						0047
	2.18	95	Sh/Clst:	m drk gy		0047-1L
		5	Cont	: w, cem		0047-2L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1520.00						0048	
	1.68	90	Sh/Clst: m drk gy to m drk y gy			0048-1L	
		5	Cont : w, cem			0048-2L	
		5	Sh/Clst: lt gn gy			0048-3L	
1560.00						0049	
	1.49	100	Sh/Clst: m gy to m ol gy			0049-1L	
1600.00						0050	
	1.37	100	Sh/Clst: m gy to m ol gy			0050-1L	
1640.00						0051	
	1.39	100	Sh/Clst: m gy to m ol gy			0051-1L	
		tr	Chert : v col			0051-2L	
1680.00						0052	
	1.38	100	Sh/Clst: m y gy to m ol gy			0052-1L	
1720.00						0053	
	1.30	100	Sh/Clst: m y gy to m ol gy			0053-1L	
1760.00						0054	
	1.44	100	Sh/Clst: m ol gy to m brn gy			0054-1L	

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1800.00						0055	
	1.14	100	Sh/Clst: m ol gy to m brn gy			0055-1L	
1840.00						0056	
	1.25	100	Sh/Clst: m ol gy to m brn gy tr Ca : w			0056-1L 0056-2L	
1880.00						0057	
	1.62	100	Sh/Clst: m ol gy to m brn gy to m gn gy tr Ca : w			0057-1L 0057-2L	
1920.00						0058	
	1.85	100	Sh/Clst: m ol gy to m brn gy to m gn gy			0058-1L	
1960.00						0059	
	1.69	90	Sh/Clst: m gy to m drk gy 10 Ca : w, dol			0059-1L 0059-2L	
2000.00						0060	
	1.55	90	Sh/Clst: m gy to m drk gy 10 Ca : w, dol			0060-1L 0060-2L	
2040.00						0061	
	2.09	90	Sh/Clst: m gy to m drk gy 10 Sh/Clst: m lt gy			0061-1L 0061-2L	



Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2080.00						0062
	0.25	95	Sh/Clst:	m lt gn gy		0062-2L
		5	Sh/Clst:	m gy to m drk gy		0062-1L
2120.00						0063
	0.20	95	Sh/Clst:	m lt gn gy		0063-2L
		5	Sh/Clst:	m gy to m drk gy		0063-1L
		tr	Sh/Clst:	red brn		0063-3L
2160.00						0064
	0.17	95	Sh/Clst:	m lt gn gy		0064-1L
		5	Sh/Clst:	lt red brn		0064-2L
		tr	Sh/Clst:	m lt gy		0064-3L
2200.00						0065
	0.81	95	Sh/Clst:	m drk gy		0065-1L
		5	Sltst	: w		0065-3L
		tr	Sh/Clst:	lt red brn		0065-2L
2240.00						0066
	0.21	95	Sh/Clst:	m lt gn gy		0066-1L
		5	Sh/Clst:	m drk gy to red brn		0066-2L
2280.00						0067
	0.19	90	Sh/Clst:	m lt gn gy to m gn gy		0067-1L
		10	Sltst	: w		0067-3L
		tr	Sh/Clst:	m drk gy to red brn		0067-2L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2320.00						0068
	0.29	90	Sh/Clst:	red brn		0068-3L
		5	Sh/Clst:	m lt gn gy to m gn gy		0068-1L
		5	Sltst	: w		0068-2L
2400.00						0069
	0.09	80	Ca	: w		0069-2L
		20	Sh/Clst:	drk gy to blk		0069-1L
2480.00						0070
	0.11	85	Ca	: w		0070-2L
		15	Sh/Clst:	drk gy to blk		0070-1L
2560.00						0071
	0.10	90	Ca	: w		0071-2L
		10	Sh/Clst:	drk gy to blk		0071-1L
2640.00						0072
	0.15	80	Ca	: w		0072-2L
		20	Sh/Clst:	m drk gy to m lt gn gy		0072-1L
2700.00						0073
	2.26	55	Sh/Clst:	drk gy		0073-2L
		45	Sh/Clst:	m gn gy		0073-1L
		tr	Ca	: w		0073-3L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2721.00						0074	
	1.87	35	Ca	: w to lt pi		0074-3L	
		30	Sh/Clst:	drk gy		0074-2L	
		25	Sh/Clst:	m gn gy		0074-1L	
		10	Sltst	: w to lt pi		0074-4L	
2740.00						0075	
	0.21	60	Ca	: w		0075-1L	
		25	Sh/Clst:	m lt gn gy		0075-3L	
		15	Sh/Clst:	drk gy		0075-2L	
2760.00						0076	
	0.14	70	Ca	: w		0076-1L	
		20	Sh/Clst:	m lt gn gy		0076-3L	
		5	Sh/Clst:	drk gy		0076-2L	
		5	Sltst	: w		0076-4L	
2780.00	swc					0001	
	0.08	100	Sh/Clst:	m red brn		0001-1L	
2780.00						0077	
	0.05	75	Sh/Clst:	lt red brn to m red brn		0077-4L	
		10	Sh/Clst:	drk gy		0077-2L	
		10	Sh/Clst:	m lt gn gy		0077-3L	
		5	Ca	: w		0077-1L	
2783.50	swc					0002	
	0.11	100	Marl	: lt red brn		0002-1L	

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2788.30	swc					0003
	0.29	100	Marl	: lt red brn		0003-1L
2792.50	swc					0004
	0.31	100	Ca	: lt gy, cly		0004-1L
2796.00	swc					0005
	3.33	100	Sh/Clst:	m drk gy, calc		0005-1L
2797.40	swc					0006
	3.12	100	Sh/Clst:	m drk gy, calc		0006-1L
2799.00	swc					0007
	0.13	100	Ca	: w, cly		0007-1L
2801.00						0078
	1.81	50	Sh/Clst:	drk gy to blk		0078-1L
		25	Cont	: w, bar		0078-4L
		20	S/Sst	: w, l		0078-2L
		5	Sh/Clst:	lt red brn		0078-3L
2801.50	swc					0008
	0.20	100	Marl	: m lt red brn, cly		0008-1L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2809.50	swc					0009	
	0.14	100	Marl	:	m lt red brn, cly	0009-1L	
2815.50	swc					0010	
	0.19	100	Marl	:	lt gn gy, cly	0010-1L	
2825.00						0079	
	6.24	50	Sh/Clst: brn gy to gy blk to drk gy, pyr, slt, mic			0079-1L	
		30	Sh/Clst: m brn, calc, slt			0079-2L	
		15	Sh/Clst: lt gy to gn gy, slt, mic			0079-3L	
		5	Cont : prp			0079-4L	
		tr	Cont : blk, Coal-ad			0079-5L	
2835.50	swc					0011	
	4.52	100	Sh/Clst: drk gy to blk			0011-1L	
2840.00	swc					0012	
	10.12	100	Sh/Clst: drk gy to blk			0012-1L	
2845.50	swc					0013	
	6.83	100	Sh/Clst: drk gy to blk			0013-1L	
2849.00						0080	
	7.10	65	Sh/Clst: brn gy to gy blk to drk gy, pyr, slt, mic, st			0080-1L	
		15	Sh/Clst: m brn, calc, slt			0080-2L	
		10	Sh/Clst: lt gy to gn gy, slt, mic			0080-3L	
		10	Cont : prp			0080-4L	
		tr	Cont : blk, Coal-ad			0080-5L	

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2868.00	swc					0014	
	0.30	100	S/Sst : w to lt gy to gn gy, cly, glauc			0014-1L	
2875.50	swc					0015	
	0.13	100	S/Sst : w			0015-1L	
2889.00						0081	
	0.27	60	S/Sst : lt gy w, crs, hd, l			0081-1L	
		20	Sh/Clst: m brn, slt			0081-2L	
		5	Sh/Clst: brn gy to gy blk, pyr, slt, mic			0081-3L	
		5	Sh/Clst: gn gy to lt gy, calc, slt, mic			0081-4L	
		5	Cont : prp			0081-5L	
		5	Cont : blk, Coal-ad			0081-6L	
2900.50	swc					0016	
	0.04	100	S/Sst : w			0016-1L	
2909.00						0082	
	0.16	90	S/Sst : lt gy w to lt gy, crs, rnd, ang, l			0082-1L	
		5	Sh/Clst: m brn, calc, slt			0082-2L	
		5	Sh/Clst: brn gy to gy blk, pyr, slt, mic			0082-3L	
		tr	Sh/Clst: gn gy to lt gy			0082-4L	
		tr	Cont : prp			0082-5L	
		tr	Cont : blk, Coal-ad			0082-6L	
2921.50	swc					0017	
	0.96	100	S/Sst : brn			0017-1L	

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2949.00						0083
	0.16	60	S/Sst	: lt gy w, f, crs, ang, l		0083-1L
		25	Sh/Clst:	brn gy to gy blk to drk gy, mic		0083-2L
		5	Sh/Clst:	m brn, calc, slt, mic		0083-3L
		5	Sh/Clst:	pl gn gy, mic		0083-4L
		5	Cont	: prp		0083-5L
		tr	Cont	: blk, Coal-ad		0083-6L
		tr	Cont	: Mica-ad		0083-7L
2964.50	swc					0018
	0.08	100	Sh/Clst:	m red brn, slt		0018-1L
2973.00						0084
		55	S/Sst	: lt gy w, f, crs, ang, l		0084-1L
		30	Sh/Clst:	gy blk, slt, mic		0084-2L
	0.18	10	Sltst	: m brn, mic		0084-3L
		5	Sh/Clst:	pl gn gy to lt bl gn, slt, mic		0084-4L
		tr	Cont	: prp		0084-5L
		tr	Cont	: blk, Coal-ad		0084-6L
		tr	Cont	: Mica-ad		0084-7L
2985.00						0085
	0.07	80	S/Sst	: lt gy w, f, crs, l		0085-1L
		5	Sltst	: m brn, mic		0085-2L
		5	Sh/Clst:	drk gy to gy blk, slt, mic		0085-3L
		5	Cont	: prp		0085-4L
		5	Cont	: blk, Coal-ad		0085-5L
		tr	Sh/Clst:	pl gn gy to lt bl gn, slt, mic, glauc		0085-6L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3009.00						0086
	0.11	80	S/Sst	: lt gy w, f, crs, ang, l		0086-1L
		5	Sltst	: m brn, mic		0086-2L
		5	Sh/Clst	: m gy, slt, mic		0086-3L
		5	Cont	: prp		0086-4L
		5	Other	: w, calc		0086-5L
		tr	Cont	: blk, Coal-ad		0086-6L
3033.00						0088
	0.10	80	S/Sst	: lt gy w, f, crs, ang, l		0088-1L
		10	Sh/Clst	: m gy, slt, mic		0088-2L
		5	Cont	: prp		0088-3L
		5	Other	: w, calc		0088-4L
		tr	Sltst	: m brn, mic		0088-5L
		tr	Cont	: blk, Coal-ad		0088-6L
3045.00						0089
	0.10	90	S/Sst	: lt gy w, f, crs, ang, l		0089-1L
		5	Sh/Clst	: m gy, pyr, slt, mic		0089-2L
		5	Other	: w, calc		0089-3L
		tr	Sltst	: m brn, mic		0089-4L
		tr	Cont	: blk, Coal-ad		0089-5L
		tr	Cont	: Mica-ad		0089-6L
3069.00						0090
	0.08	90	S/Sst	: lt gy w, f, crs, ang, l		0090-1L
		5	Sh/Clst	: m gy to gy blk, slt, mic		0090-2L
		5	Cont	: prp		0090-3L
		tr	Sh/Clst	: pl gn gy, glauc		0090-4L
		tr	Sltst	: m brn		0090-5L
		tr	Cont	: blk, Coal-ad		0090-6L
		tr	Other	: w, calc		0090-7L



Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3093.00						0091
	0.08	90	S/Sst	: lt gy w, f, crs, rnd, ang, l		0091-1L
		5	Sh/Clst:	m gy to gy blk, pyr, slt, mic		0091-2L
		5	Cont	: prp		0091-3L
		tr	Sltst	: m brn, mic		0091-4L
		tr	Cont	: blk, Coal-ad		0091-5L
		tr	Cont	: Mica-ad		0091-6L
		tr	Other	: w, calc		0091-7L
3105.00						0092
	0.12	80	S/Sst	: lt gy w to pl gn w, pyr, f, crs, rnd, ang, l		0092-1L
		10	Sh/Clst:	m gy to drk gy, pyr, slt, mic		0092-2L
		5	Sltst	: m brn		0092-3L
		5	Cont	: prp		0092-4L
		tr	Cont	: blk, Coal-ad		0092-5L
		tr	Other	: calc		0092-6L
3117.00	swc					0019
	0.05	100	S/Sst	: m red brn, cly		0019-1L
3129.00						0093
	0.12	90	S/Sst	: lt gy w to pl gn w, f, crs, rnd, l		0093-1L
		5	Sltst	: m brn, mic		0093-2L
		5	Cont	: blk, Coal-ad		0093-3L
		tr	Sh/Clst:	m gy to drk gy, slt		0093-4L
		tr	Sh/Clst:	pl gn gy, slt, mic		0093-5L
		tr	Cont	: prp		0093-6L

Table 2 : Lithology description for well NOCS 16/10-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3150.00						0094	
	0.04	80	S/Sst	: lt gy w to pl gn w to dsk red brn, f, crs, rnd, ang, l		0094-1L	
		10	Cont	: prp		0094-2L	
		5	Sh/Clst:	m gy to drk gy, slt, mic		0094-3L	
		5	Cont	: blk, Coal-ad		0094-4L	
		tr	Slst	: m brn, mic		0094-5L	
		tr	Sh/Clst:	lt bl gn		0094-6L	
		tr	Cont	: Mica-ad		0094-7L	

Table 3 : Rock-Eval table for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
420.00	cut	Marl : lt y gy to lt brn y	0.07	0.43	1.68	0.26	0.68	63	247	0.5	0.14	430	0020-1L
440.00	cut	S/Sst : w	-	-	0.01	-	0.05	-	20	-	-	-	0021-3L
480.00	cut	Marl : lt y gy to lt brn y	0.08	0.56	1.53	0.37	0.82	68	187	0.6	0.13	432	0022-1L
520.00	cut	Marl : lt gn gy to lt ol gy	0.11	0.63	1.57	0.40	0.91	69	173	0.7	0.15	429	0023-1L
560.00	cut	Marl : lt gn gy to lt ol gy	0.08	0.52	1.87	0.28	0.90	58	208	0.6	0.13	427	0024-1L
600.00	cut	Marl : lt gn gy to lt ol gy	0.04	0.25	1.18	0.21	0.50	50	236	0.3	0.14	425	0025-1L
640.00	cut	Marl : lt gn gy to lt ol gy	0.06	0.29	0.99	0.29	0.47	62	211	0.3	0.17	417	0026-1L
680.00	cut	Sh/Clst: lt ol gy	0.08	0.47	1.54	0.31	0.70	67	220	0.6	0.15	426	0027-1L
720.00	cut	Sh/Clst: lt ol gy	0.07	0.35	0.83	0.42	0.49	71	169	0.4	0.17	422	0028-1L
760.00	cut	S/Sst : w	-	0.04	0.14	0.29	0.12	33	117	-	-	399	0029-3L
800.00	cut	Marl : lt bl gy to lt gy	0.09	0.43	1.09	0.39	0.64	67	170	0.5	0.17	415	0030-1L
840.00	cut	Sh/Clst: lt gn gy to lt ol gy	0.15	1.16	0.88	1.32	1.02	114	86	1.3	0.11	423	0031-1L
880.00	cut	Sh/Clst: lt gn gy to lt ol gy	0.15	1.12	0.92	1.22	0.99	113	93	1.3	0.12	424	0032-1L
920.00	cut	Sh/Clst: lt gn gy to lt ol gy	0.17	1.34	0.93	1.44	1.06	126	88	1.5	0.11	424	0034-1L
960.00	cut	Sh/Clst: lt gn gy to lt ol gy	0.17	1.24	0.80	1.55	0.87	143	92	1.4	0.12	421	0033-1L

Table 3 : Rock-Eval table for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1000.00	cut	Sh/Clst: m ol gy to lt y gy	0.41	3.73	1.09	3.42	1.63	229	67	4.1	0.10	417	0035-1L
1040.00	cut	Sh/Clst: m ol gy to lt y gy	0.39	3.47	1.01	3.44	1.48	234	68	3.9	0.10	423	0036-1L
1080.00	cut	S/Sst : w	0.01	0.05	0.11	0.45	0.13	38	85	0.1	0.17	408	0037-3L
1120.00	cut	S/Sst : w	-	0.04	0.06	0.67	0.11	36	55	-	-	400	0038-3L
1160.00	cut	S/Sst : w	0.01	0.06	0.10	0.60	0.14	43	71	0.1	0.14	402	0039-3L
1200.00	cut	Sh/Clst: drk gy	0.26	4.22	1.50	2.81	2.57	164	58	4.5	0.06	434	0040-2L
1240.00	cut	S/Sst : w	-	0.03	0.07	0.43	0.10	30	70	-	-	422	0041-2L
1280.00	cut	S/Sst : w	-	0.02	0.05	0.40	0.11	18	45	-	-	344	0042-2L
1320.00	cut	Sh/Clst: blk	0.38	8.05	2.45	3.29	5.26	153	47	8.4	0.05	431	0043-3L
1360.00	cut	Sh/Clst: blk	0.31	7.15	2.54	2.81	4.94	145	51	7.5	0.04	434	0044-3L
1400.00	cut	Sh/Clst: blk	0.26	6.80	2.65	2.57	4.71	144	56	7.1	0.04	435	0045-3L
1440.00	cut	Sh/Clst: m drk gy	0.10	3.01	1.51	1.99	1.98	152	76	3.1	0.03	435	0046-1L
1480.00	cut	Sh/Clst: m drk gy	0.09	3.11	1.47	2.12	2.18	143	67	3.2	0.03	434	0047-1L
1520.00	cut	Sh/Clst: m drk gy to m drk y gy	0.05	2.23	1.15	1.94	1.68	133	68	2.3	0.02	433	0048-1L
1560.00	cut	Sh/Clst: m gy to m ol gy	0.06	1.82	0.75	2.43	1.49	122	50	1.9	0.03	436	0049-1L

Table 3 : Rock-Eval table for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1600.00	cut	Sh/Clst: m gy to m ol gy	0.06	1.64	0.69	2.38	1.37	120	50	1.7	0.04	435	0050-1L
1640.00	cut	Sh/Clst: m gy to m ol gy	0.05	1.80	0.56	3.21	1.39	129	40	1.8	0.03	436	0051-1L
1680.00	cut	Sh/Clst: m y gy to m ol gy	0.07	1.90	0.58	3.28	1.38	138	42	2.0	0.04	433	0052-1L
1720.00	cut	Sh/Clst: m y gy to m ol gy	0.06	1.62	0.46	3.52	1.30	125	35	1.7	0.04	431	0053-1L
1760.00	cut	Sh/Clst: m ol gy to m brn gy	0.05	1.97	0.36	5.47	1.44	137	25	2.0	0.02	432	0054-1L
1800.00	cut	Sh/Clst: m ol gy to m brn gy	0.05	1.28	0.34	3.76	1.14	112	30	1.3	0.04	432	0055-1L
1840.00	cut	Sh/Clst: m ol gy to m brn gy	0.04	1.65	0.35	4.71	1.25	132	28	1.7	0.02	434	0056-1L
1880.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	0.06	2.35	0.50	4.70	1.62	145	31	2.4	0.02	433	0057-1L
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	0.08	3.27	0.40	8.18	1.85	177	22	3.3	0.02	437	0058-1L
1960.00	cut	Sh/Clst: m gy to m drk gy	0.05	2.86	0.52	5.50	1.69	169	31	2.9	0.02	436	0059-1L
2000.00	cut	Sh/Clst: m gy to m drk gy	0.05	2.28	0.44	5.18	1.55	147	28	2.3	0.02	437	0060-1L
2040.00	cut	Sh/Clst: m gy to m drk gy	0.08	2.85	0.48	5.94	2.09	136	23	2.9	0.03	439	0061-1L
2080.00	cut	Sh/Clst: m lt gn gy	-	0.14	0.17	0.82	0.25	56	68	0.1	-	424	0062-2L
2120.00	cut	Sh/Clst: m lt gn gy	-	0.08	0.08	1.00	0.20	40	40	0.1	-	426	0063-2L

Table 3 : Rock-Eval table for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2160.00	cut	Sh/Clst: m lt gn gy	-	0.07	0.08	0.88	0.17	41	47	0.1	-	424	0064-1L
2200.00	cut	Sh/Clst: m drk gy	0.01	0.77	0.18	4.28	0.81	95	22	0.8	0.01	431	0065-1L
2240.00	cut	Sh/Clst: m lt gn gy	-	0.09	0.08	1.13	0.21	43	38	0.1	-	424	0066-1L
2280.00	cut	Sh/Clst: m lt gn gy to m gn gy	-	0.09	0.09	1.00	0.19	47	47	0.1	-	425	0067-1L
2320.00	cut	Sh/Clst: red brn	-	0.14	0.17	0.82	0.29	48	59	0.1	-	432	0068-3L
2400.00	cut	Ca : w	0.02	0.04	0.61	0.07	0.09	44	678	0.1	0.33	382	0069-2L
2480.00	cut	Ca : w	0.02	0.04	0.62	0.06	0.11	36	564	0.1	0.33	300	0070-2L
2560.00	cut	Ca : w	0.01	0.03	0.74	0.04	0.10	30	740	-	0.25	421	0071-2L
2640.00	cut	Ca : w	0.04	0.08	1.11	0.07	0.15	53	740	0.1	0.33	376	0072-2L
2700.00	cut	Sh/Clst: drk gy	0.08	3.12	0.50	6.24	2.26	138	22	3.2	0.03	437	0073-2L
2721.00	cut	Sh/Clst: drk gy	0.07	2.80	0.47	5.96	1.87	150	25	2.9	0.02	436	0074-2L
2740.00	cut	Ca : w	0.02	0.07	1.34	0.05	0.21	33	638	0.1	0.22	403	0075-1L
2760.00	cut	Ca : w	0.02	0.04	1.13	0.04	0.14	29	807	0.1	0.33	334	0076-1L
2780.00	swc	Sh/Clst: m red brn	-	0.01	0.22	0.05	0.08	13	275	-	-	321	0001-1L
2780.00	cut	Sh/Clst: lt red brn to m red brn	-	-	0.34	-	0.05	-	680	-	-	-	0077-4L

Table 3 : Rock-Eval table for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2783.50	swc	Marl : lt red brn	0.01	0.05	0.40	0.13	0.11	45	364	0.1	0.17	347	0002-1L
2788.30	swc	Marl : lt red brn	-	0.05	0.89	0.06	0.29	17	307	0.1	-	427	0003-1L
2792.50	swc	Ca : lt gy	-	0.10	0.87	0.11	0.31	32	281	0.1	-	431	0004-1L
2796.00	swc	Sh/Clst: m drk gy	0.13	6.29	0.89	7.07	3.33	189	27	6.4	0.02	435	0005-1L
2797.40	swc	Sh/Clst: m drk gy	0.14	5.24	0.86	6.09	3.12	168	28	5.4	0.03	437	0006-1L
2799.00	swc	Ca : w	-	0.04	0.68	0.06	0.13	31	523	-	-	426	0007-1L
2801.00	cut	Sh/Clst: drk gy to blk	0.14	2.68	0.27	9.93	1.81	148	15	2.8	0.05	440	0078-1L
2801.50	swc	Marl : m lt red brn	-	0.01	0.73	0.01	0.20	5	365	-	-	380	0008-1L
2809.50	swc	Marl : m lt red brn	-	0.05	1.09	0.05	0.14	36	779	0.1	-	389	0009-1L
2815.50	swc	Marl : lt gn gy	-	0.11	0.51	0.22	0.19	58	268	0.1	-	422	0010-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	2.00	39.13	-	-	6.24	627	-	41.1	0.05	431	0079-1L
2835.50	swc	Sh/Clst: drk gy to blk	1.81	22.25	0.38	58.55	4.52	492	8	24.1	0.08	428	0011-1L
2840.00	swc	Sh/Clst: drk gy to blk	4.94	62.15	0.48	129.48	10.12	614	5	67.1	0.07	430	0012-1L
2845.50	swc	Sh/Clst: drk gy to blk	3.32	40.05	0.44	91.02	6.83	586	6	43.4	0.08	427	0013-1L

Table 3 : Rock-Eval table for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2849.00	cut	Sh/Clst: brn gy to gy blk to drk gy	3.38	44.87	0.31	144.74	7.10	632	4	48.3	0.07	426	0080-1L
2868.00	swc	S/Sst : w to lt gy to gn gy	0.03	0.18	0.31	0.58	0.30	60	103	0.2	0.14	426	0014-1L
2875.50	swc	S/Sst : w	-	0.04	0.26	0.15	0.13	31	200	-	-	426	0015-1L
2889.00	cut	S/Sst : lt gy w	0.05	0.51	0.05	10.20	0.27	189	19	0.6	0.09	429	0081-1L
2900.50	swc	S/Sst : w	-	0.06	0.10	0.60	0.04	150	250	0.1	-	470	0016-1L
2909.00	cut	S/Sst : lt gy w to lt gy	0.03	0.13	-	-	0.16	81	-	0.2	0.19	430	0082-1L
2921.50	swc	S/Sst : brn	0.09	0.72	0.15	4.80	0.96	75	16	0.8	0.11	438	0017-1L
2949.00	cut	S/Sst : lt gy w	0.02	0.06	0.02	3.00	0.16	38	13	0.1	0.25	428	0083-1L
2964.50	swc	Sh/Clst: m red brn	0.03	0.11	0.22	0.50	0.08	138	275	0.1	0.21	395	0018-1L
2973.00	cut	Sltst : m brn	0.03	0.07	0.13	0.54	0.18	39	72	0.1	0.30	407	0084-3L
2985.00	cut	S/Sst : lt gy w	-	0.01	0.04	0.25	0.07	14	57	-	-	-	0085-1L
3009.00	cut	S/Sst : lt gy w	0.01	0.02	-	-	0.11	18	-	-	0.33	-	0086-1L
3033.00	cut	S/Sst : lt gy w	0.01	0.02	0.05	0.40	0.10	20	50	-	0.33	422	0088-1L
3045.00	cut	S/Sst : lt gy w	0.01	0.03	0.03	1.00	0.10	30	30	-	0.25	384	0089-1L



Table 3 : Rock-Eval table for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3069.00	cut	S/Sst : lt gy w	0.02	0.03	0.01	3.00	0.08	38	13	0.1	0.40	328	0090-1L
3093.00	cut	S/Sst : lt gy w	-	0.01	0.04	0.25	0.08	13	50	-	-	323	0091-1L
3105.00	cut	S/Sst : lt gy w to pl gn w	0.01	0.02	0.02	1.00	0.12	17	17	-	0.33	-	0092-1L
3117.00	swc	S/Sst : m red brn	0.01	0.03	0.12	0.25	0.05	60	240	-	0.25	331	0019-1L
3129.00	cut	S/Sst : lt gy w to pl gn w	-	0.03	-	-	0.12	25	-	-	-	355	0093-1L
3150.00	cut	S/Sst : lt gy w to pl gn w to dsk red brn	-	0.02	-	-	0.04	50	-	-	-	308	0094-1L

Table 4 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1000.00	cut	Sh/Clst: m ol gy to lt y gy	3.66	18.49	55.55	22.30	3.73	0035-1L
1320.00	cut	Sh/Clst: blk	6.79	14.80	46.07	32.34	8.05	0043-3L
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	6.16	18.80	47.31	27.73	3.27	0058-1L
2721.00	cut	Sh/Clst: drk gy	9.40	21.28	49.34	19.99	2.80	0074-2L
2796.00	swc	Sh/Clst: m drk gy	5.20	14.34	31.55	48.90	6.29	0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	2.70	9.00	28.12	59.68	39.13	0079-1L
2840.00	swc	Sh/Clst: drk gy to blk	2.43	10.76	26.51	60.30	62.15	0012-1L
2921.50	swc	S/Sst : brn	15.83	19.69	26.13	38.35	0.72	0017-1L

Table 5 a: Weight of EOM and Chromatographic Fraction for well NOCS 16/10-2

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
1000.00	cut	Sh/Clst: m ol gy to lt y gy	5.1	1.1	-	-	-	-	-	-	-	0035-1L
1320.00	cut	Sh/Clst: blk	2.5	1.5	-	-	-	-	-	-	-	0043-3L
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	10.5	6.4	1.4	2.0	0.7	2.3	3.4	3.0	2.30	0058-1L
2700.00	cut	Sh/Clst: drk gy	9.4	6.2	1.4	1.7	0.5	2.6	3.1	3.1	2.48	0073-2L
2796.00	swc	Sh/Clst: m drk gy	6.1	42.6	9.5	15.1	3.8	14.2	24.6	18.0	6.98	0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	7.8	34.0	8.2	12.2	3.3	10.3	20.4	13.6	6.99	0079-1L
2845.50	swc	Sh/Clst: drk gy to blk	8.0	6.6	1.2	1.8	2.2	1.4	3.0	3.6	3.06	0013-1L
2921.50	swc	S/Sst : brn	12.7	13.8	0.5	1.3	11.0	1.0	1.8	12.0	1.06	0017-1L

Table 5 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1000.00	cut	Sh/Clst: m ol gy to lt y gy	214	-	-	-	-	-	214	0035-1L
1320.00	cut	Sh/Clst: blk	597	-	-	-	-	-	597	0043-3L
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	611	133	191	66	219	325	286	0058-1L
2700.00	cut	Sh/Clst: drk gy	659	148	180	53	276	329	329	0073-2L
2796.00	swc	Sh/Clst: m drk gy	6960	1552	2467	620	2320	4019	2941	0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	4347	1048	1560	421	1317	2608	1739	0079-1L
2845.50	swc	Sh/Clst: drk gy to blk	823	149	224	274	174	374	449	0013-1L
2921.50	swc	S/Sst : brn	1090	39	102	868	78	142	947	0017-1L

Table 5 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1000.00	cut	Sh/Clst: m ol gy to lt y gy	-	-	-	-	-	-	-	0035-1L
1320.00	cut	Sh/Clst: blk	-	-	-	-	-	-	-	0043-3L
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	26.60	5.82	8.31	2.91	9.56	14.13	12.47	0058-1L
2700.00	cut	Sh/Clst: drk gy	26.60	6.01	7.29	2.14	11.15	13.30	13.30	0073-2L
2796.00	swc	Sh/Clst: m drk gy	99.72	22.24	35.35	8.90	33.24	57.59	42.14	0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	62.20	15.00	22.32	6.04	18.84	37.32	24.88	0079-1L
2845.50	swc	Sh/Clst: drk gy to blk	26.93	4.90	7.34	8.98	5.71	12.24	14.69	0013-1L
2921.50	swc	S/Sst : brn	102.83	3.73	9.69	81.97	7.45	13.41	89.42	0017-1L

Table 5 d: Composition of material extracted from the rock (%) for well NOCS 16/10-2

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	
1000.00	cut	Sh/Clst: m ol gy to lt y gy	-	-	-	-	-	-	-	-	0035-1L
1320.00	cut	Sh/Clst: blk	-	-	-	-	-	-	-	-	0043-3L
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	21.88	31.25	10.94	35.94	53.13	46.88	70.00	113.33	0058-1L
2700.00	cut	Sh/Clst: drk gy	22.58	27.42	8.06	41.94	50.00	50.00	82.35	100.00	0073-2L
2796.00	swc	Sh/Clst: m drk gy	22.30	35.45	8.92	33.33	57.75	42.25	62.91	136.67	0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	24.12	35.88	9.71	30.29	60.00	40.00	67.21	150.00	0079-1L
2845.50	swc	Sh/Clst: drk gy to blk	18.18	27.27	33.33	21.21	45.45	54.55	66.67	83.33	0013-1L
2921.50	swc	S/Sst : brn	3.62	9.42	79.71	7.25	13.04	86.96	38.46	15.00	0017-1L

Table 6 : Saturated Hydrocarbon Ratios for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	5.38	3.95	3.52	1.49	1.37	0058-1L
2700.00	cut	Sh/Clst: drk gy	3.31	4.99	2.09	0.74	1.89	0073-2L
2796.00	swc	Sh/Clst: m drk gy	1.09	1.06	1.13	1.16	0.97	0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	1.15	1.67	1.02	0.86	1.15	0079-1L
2845.50	swc	Sh/Clst: drk gy to blk	3.54	5.24	2.20	0.74	1.18	0013-1L
2921.50	swc	S/Sst : brn	0.45	0.74	0.50	0.53	1.50	0017-1L

Table 7 : Aromatic Hydrocarbon Ratios for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
1920.00	cut	Sh/Clst: m ol gy to m brn gy to m gn gy	-	-	-	-	-	-	-	-	-	-	0058-1L
2700.00	cut	Sh/Clst: drk gy	-	-	-	-	-	-	-	-	-	-	0073-2L
2796.00	swc	Sh/Clst: m drk gy	0.89	1.11	-	1.28	1.46	1.12	1.28	0.73	0.11	0.06	0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	1.00	1.30	-	-	-	-	-	0.54	0.10	0.03	0079-1L
2845.50	swc	Sh/Clst: drk gy to blk	0.45	1.25	-	-	-	-	-	-	-	-	0013-1L
2921.50	swc	S/Sst : brn	1.31	0.59	-	0.87	0.39	0.46	0.63	0.28	-	-	0017-1L



Table 8 : Thermal Maturity Data for well NOCS 16/10-2

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
840.00	cut	bulk	0.34	6	0.03	3-4	-	-	0031-0B
1000.00	cut	bulk	0.36	20	0.03	3-4	-	-	0035-0B
1000.00	cut	Sh/Clst: m ol gy to lt y gy	-	-	-	-	4.0(??)	417	0035-1L
1200.00	cut	bulk	0.36	9	0.04	3-4	-	-	0040-0B
1320.00	cut	bulk	0.34	20	0.04	3-4	-	-	0043-0B
1440.00	cut	bulk	0.36	20	0.04	3-4	-	-	0046-0B
1440.00	cut	Sh/Clst: m drk gy	-	-	-	-	4.5-5.0	435	0046-1L
1600.00	cut	bulk	0.38	20	0.04	4	-	-	0050-0B
1760.00	cut	bulk	0.40	20	0.05	4	-	-	0054-0B
1760.00	cut	Sh/Clst: m ol gy to m brn gy	-	-	-	-	4.5-5.0	432	0054-1L
1920.00	cut	bulk	0.42	20	0.05	3-5	-	-	0058-0B
2040.00	cut	bulk	0.43	20	0.05	4	-	-	0061-0B
2040.00	cut	Sh/Clst: m gy to m drk gy	-	-	-	-	5.0	439	0061-1L
2200.00	cut	bulk	0.55	5	0.02	4	-	-	0065-0B

Table 8 : Thermal Maturity Data for well NOCS 16/10-2

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
2700.00	cut bulk	0.46	20	0.05	4	-	-	0073-0B
2721.00	cut Sh/Clst: drk gy	-	-	-	-	5.0	436	0074-2L
2796.00	swc Sh/Clst: m drk gy	-	-	-	-	4.5-5.0	435	0005-1L
2797.40	swc bulk	0.51	7	0.08	5	-	-	0006-0B
2825.00	cut Sh/Clst: brn gy to gy blk to drk gy	-	-	-	-	5.5(?)	431	0079-1L
2835.50	swc bulk	0.47	12	0.04	4	-	-	0011-0B
2840.00	swc Sh/Clst: drk gy to blk	-	-	-	-	5.5-6.0(??)	430	0012-1L
2849.00	cut bulk	0.52	9	0.05	4	-	-	0080-0B
3069.00	cut bulk	0.49	20	0.06	4	-	-	0090-0B

Table 9 : Visual Kerogen Composition Data for well NOCS 16/10-2

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	i	A	B	N	F	e	n	i		c	B	I	T	o	i	m
			P	o	p	/	t	e	R	A	B	I	E	u	F	D	r	e	T	R	l	l	D	r	t
			T	r	D	P	i	s	g	o	r	t	R	s	F	D	r	e	T	R	l	l	D	r	t
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n	o	I	%	n	n	t	V	V
1000.00	cut	Sh/Clst: m ol gy to lt y gy	60	*		*		*	*				20		*					20		*			0035-1L
1440.00	cut	Sh/Clst: m drk gy	90	**	*	*		*	*				TR		*					10	*	**			0046-1L
1760.00	cut	Sh/Clst: m ol gy to m brn gy	40		*	**		*					20	*	**					40	*	**			0054-1L
2040.00	cut	Sh/Clst: m gy to m drk gy	80	**	*	*		*	*				5		*					15	*	**			0061-1L
2721.00	cut	Sh/Clst: drk gy	90	**	*	*		*	*				TR		*					10	*	**			0074-2L
2796.00	swc	Sh/Clst: m drk gy	60	**		*		**	*				35	*	*					5		*			0005-1L
2825.00	cut	Sh/Clst: brn gy to gy blk to drk gy	90	**		*		**	*	*			5		*					5	*	*			0079-1L
2840.00	swc	Sh/Clst: drk gy to blk	90	**		*		**	*	*			5		*					5	*	*			0012-1L

Table 10a : Tabulation of carbon isotope data for EOM/EOM - fractions or Oils for well NOCS 16/10-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM/Oil	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
1920.00	cut		-	-27.51	-27.48	-26.95	-26.87	-	0058-1L
2700.00	cut		-	-27.57	-26.83	-26.62	-26.51	-	0073-2L
2796.00	swc		-28.70	-29.79	-28.92	-28.29	-27.91	-	0005-1L
2825.00	cut		-30.91	-31.74	-30.90	-30.43	-29.52	-	0079-1L
2845.50	swc		-	-28.87	-28.90	-28.32	-27.23	-	0013-1L
2921.50	swc		-23.60	-26.66	-23.88	-24.49	-23.43	-	0017-1L

Table 10b : Tabulation of cv values from carbon isotope data for well NOCS 16/10-2

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>
1920.00	cut		-27.51	-27.48	-3.06	0058-1L
2700.00	cut		-27.57	-26.83	-1.46	0073-2L
2796.00	swc		-29.79	-28.92	-0.48	0005-1L
2825.00	cut		-31.74	-30.90	0.05	0079-1L
2845.50	swc		-28.87	-28.90	-2.77	0013-1L
2921.50	swc		-26.66	-23.88	2.79	0017-1L

Table 11A: Variation in Triterpane Distribution (peak height) for Well NOCS 16/10-2

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
1920.00	Sh/Clst	1.04	0.51	0.11	8.50	0.89	-	1.74	0.20	0.63	0.12	0.54	0.83	0.17	-	-	0058-1	
2700.00	Sh/Clst	7.02	0.88	0.20	4.44	0.82	0.02	0.22	0.05	0.18	0.04	0.60	0.75	0.22	-	-	0073-2	
2796.00	Sh/Clst	4.51	0.82	0.16	0.33	0.25	0.04	-	0.01	-	0.05	0.89	0.25	0.14	54.72	-	0005-1	
2825.00	Sh/Clst	5.16	0.84	0.25	0.47	0.32	0.08	-	-	-	0.06	0.82	0.34	0.25	49.17	-	0079-1	
2845.50	Sh/Clst	15.36	0.94	0.26	0.52	0.34	0.04	-	-	-	0.04	0.69	0.35	0.46	38.74	-	0013-1	
2921.50	S/Sst	58.29	0.98	0.43	0.69	0.41	0.01	-	-	-	0.20	0.79	0.44	0.33	51.74	-	0017-1	

Table 11B: Variation in Sterane Distribution (peak height) for Well NOCS 16/10-2

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
1920.00	Sh/Clst	0.15	55.94	36.78	0.01	0.34	0.23	0.15	0.23	1.27	0.66	0058-1
2700.00	Sh/Clst	1.00	62.80	33.00	0.06	0.28	0.21	0.14	0.20	1.69	0.66	0073-2
2796.00	Sh/Clst	0.53	25.78	46.08	1.93	0.62	0.29	0.21	0.30	0.35	0.58	0005-1
2825.00	Sh/Clst	0.45	19.12	42.85	1.86	0.66	0.21	0.16	0.27	0.24	0.46	0079-1
2845.50	Sh/Clst	0.50	12.70	47.31	1.36	0.78	0.29	0.23	0.31	0.15	0.51	0013-1
2921.50	S/Sst	0.70	-	71.06	1.03	1.00	0.87	0.75	0.55	-	1.23	0017-1

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 11C: Variation in Triaromatic Sterane Distribution for Well NOCS 16/10-2

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>
1920.00	Sh/Clst	0.47	0.31	0.13	0.18	0.18	0058-1
2700.00	Sh/Clst	0.44	0.35	0.12	0.15	0.14	0073-2
2796.00	Sh/Clst	0.39	0.38	0.11	0.15	0.12	0005-1
2825.00	Sh/Clst	0.43	0.31	0.13	0.18	0.17	0079-1
2845.50	Sh/Clst	0.41	0.28	0.12	0.15	0.16	0013-1
2921.50	S/Sst	-	-	-	-	-	0017-1

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 11D: Variation in Monoaromatic Sterane Distribution for Well NOCS 16/10-2

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>
1920.00	Sh/Clst	0.10	0.07	0.04	0.04	0058-1
2700.00	Sh/Clst	0.11	0.08	0.05	0.05	0073-2
2796.00	Sh/Clst	0.25	0.17	0.16	0.15	0005-1
2825.00	Sh/Clst	0.25	0.14	0.15	0.13	0079-1
2845.50	Sh/Clst	0.13	0.08	0.08	0.08	0013-1
2921.50	S/Sst	0.64	0.44	0.46	0.39	0017-1

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

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

Table 11E: Aromatisation of Steranes for Well NOCS 16/10-2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
1920.00	Sh/Clst	0.95	0.06	0058-1
2700.00	Sh/Clst	0.93	0.07	0073-2
2796.00	Sh/Clst	0.60	0.80	0005-1
2825.00	Sh/Clst	0.73	0.61	0079-1
2845.50	Sh/Clst	0.82	0.47	0013-1
2921.50	S/Sst	1.00	-	0017-1

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

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

Table 11F: Raw GCMS triterpane data (peak height) for Well NOCS 16/10-2

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						
1920.00	Sh/Clst	30.00	73.03	59.93	23.32	11.86	131.06	136.91	1022.32	5001.69	0058-1									
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
2700.00	Sh/Clst	31.87	34.66	45.12	27.90	24.06	55.25	387.94	207.29	4266.48	0073-2									
		18.21	514.96	960.80	638.23	164.74	2352.03	440.07	0.00											
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
2796.00	Sh/Clst	66.41	52.84	29.21	38.82	9.49	49.81	224.68	4.01	339.53	0005-1									
		38.94	57.38	1036.25	128.73	413.74	270.26	87.57	246.78											
		204.24	259.90	210.58	198.73	164.90	282.00	250.56												
2825.00	Sh/Clst	117.70	42.56	44.33	36.27	16.06	56.15	289.62	0.00	329.36	0079-1									
		56.48	104.11	704.46	155.51	445.81	321.62	151.24	214.71											
		221.97	249.45	282.31	189.16	235.73	369.67	459.25												
2845.50	Sh/Clst	72.58	41.22	19.46	58.30	9.50	38.50	591.28	0.00	597.12	0013-1									
		42.53	292.67	1144.94	503.45	761.71	722.56	425.97	153.19											
		242.28	62.26	113.81	35.87	4.80	16.45	24.89												

Table 11F: Raw GCMS triterpane data (peak height) for Well NOCS 16/10-2

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											
2921.50	S/Sst	38.65	17.26	5.08	11.27	2.05	1.46	85.10	0.00	61.12	0017-1	1.16	26.30	88.21	23.02	37.03	40.13	14.26	15.46
		14.42	4.99	4.94	2.97	3.71	2.18	2.29											

Table 11G: Raw GCMS sterane data (peak height) for Well NOCS 16/10-2

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					
1920.00	Sh/Clst	100.93	36.68	14.66	10.29	0.00	0.00	0.00	0.00	20.51	0058-1
		31.56	29.30	82.19	1299.50	544.69	207.29	44.51	67.93		
		42.17	204.26	58.82	47.42	160.90					
2700.00	Sh/Clst	78.93	30.36	11.61	12.41	20.63	0.00	0.00	0.00	10.67	0073-2
		35.58	41.50	0.00	442.17	171.11	123.16	85.97	34.03		
		57.61	208.16	43.79	37.84	123.32					
2796.00	Sh/Clst	206.69	66.35	516.60	367.65	167.75	170.83	208.82	155.01	250.19	0005-1
		251.42	147.65	450.44	215.16	73.98	125.24	93.35	83.44		
		251.15	118.91	138.47	58.62	342.27					
2825.00	Sh/Clst	251.21	67.75	774.64	595.17	261.93	246.67	307.57	267.15	324.09	0079-1
		359.63	166.28	951.11	379.84	109.42	158.33	162.40	126.95		
		454.84	165.77	232.61	92.44	701.16					
2845.50	Sh/Clst	202.04	51.70	340.73	249.61	128.26	107.88	184.91	121.43	113.65	0013-1
		233.22	114.92	339.04	214.50	81.00	46.15	80.85	68.94		
		164.16	53.58	130.65	58.70	368.16					

Table 11G: Raw GCMS sterane data (peak height) for Well NOCS 16/10-2

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					
2921.50	S/Sst	25.47	7.00	6.19	3.37	0.00	0.00	0.00	0.00	1.82	0017-1
		0.00	2.85	2.70	2.71	3.63	1.54	1.98	1.30	2.20	
			0.00	1.68	1.07	2.24					

Table 11H: Raw GCMS trioaromatic sterane data (peak height) for Well NOCS 16/10-2

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
1920.00	Sh/Clst	36.76	18.68	36.90	166.87	55.66	65.96	40.88	0058-1
2700.00	Sh/Clst	30.72	20.43	18.40	182.10	61.37	68.67	38.56	0073-2
2796.00	Sh/Clst	554.04	511.97	1396.96	3885.93	759.81	1627.92	853.00	0005-1
2825.00	Sh/Clst	497.70	308.59	880.91	2402.27	570.50	1037.74	672.68	0079-1
2845.50	Sh/Clst	292.21	167.34	374.90	1516.51	432.87	760.87	421.75	0013-1
2921.50	S/Sst	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0017-1

Table 11I: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 16/10-2

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
1920.00	Sh/Clst	154.93	103.97	331.86	328.14	1471.05	78.42	2090.67	1585.91	692.00	0058-1
2700.00	Sh/Clst	147.07	98.27	235.43	231.60	1135.80	128.39	1512.39	1111.15	489.48	0073-2
2796.00	Sh/Clst	1374.44	872.32	1800.11	1633.71	4222.53	650.08	3139.10	1173.18	209.53	0005-1
2825.00	Sh/Clst	1459.97	755.23	1878.41	2019.15	4487.78	620.26	3500.54	1728.86	437.29	0079-1
2845.50	Sh/Clst	904.33	518.45	1161.43	1053.95	5815.88	922.22	4333.66	1695.69	472.40	0013-1
2921.50	S/Sst	56.13	24.73	13.16	10.17	31.56	10.73	34.39	22.97	2.96	0017-1