

HVITVEIS WELL 6706/6-1 RCI PRESSURE MEASUREMENTS

Sample Number	DEPTH LWD Depth MD (mRKB)	Depth Shifted to WL (mRKB)	Depth Shift (m)	Initial Hydrostatic (bars)	Initial Hydrostatic (psia)	Formation Pressure (bars)	Formation Pressure* (psia)	Final Hydrostatic (bars)	Final Hydrostatic (psia)	Perm (mD)	Comment
19	3243,5	3240,98	-2,5	411,870	5972,12		4750,00	411,880	5972,26		Tight
18	3244,0	3241,45	-2,6	411,980	5973,71		4750,00	411,940	5973,13		Tight
20	3245,1	3242,48	-2,6	412,070	5975,02		4750,00	412,030	5974,44		Tight
21	3247,5	3245,10	-2,4	412,375	5979,44		4750,00	412,115	5975,67		Tight
22	3248,8	3246,33	-2,5	412,472	5980,84		4750,00	412,518	5981,51		Tight
1	3264,7	3261,56	-3,1	414,800	6014,60		4750,00	0,00			Tight
2	3265,0	3261,86	-3,1	414,850	6015,33		4750,00	414,800	6014,60		Tight
45	3265,5	3262,35	-3,2	414,359	6008,21	331,681	4809,37	414,362	6008,25	1,146	
46	3265,5	3262,35	-3,2	414,359	6008,21	331,890		414,567	6011,22		840cc sample
47	3265,5	3262,35	-3,2	414,361	6008,23	332,345		414,437	6009,34		840cc sample
48	3265,5	3262,35	-3,2	414,359	6008,21	331,781		414,380	6008,51		840cc sample
49	3265,5	3262,35	-3,2	415,626	6026,58	334,149		414,571	6011,28		840cc sample
50	3265,5	3262,35	-3,2	414,359	6008,21	332,711		414,271	6006,93		840cc sample
51	3265,5	3262,35	-3,2	414,359	6008,21	330,510		414,335	6007,86		4 litre sample
52	3265,5	3262,35	-3,2	414,243	6006,52			414,245	6006,55		Gas in line
53	3265,5	3262,35	-3,2	414,397	6008,76			414,567	6011,22		Gas in line
3	3265,5	3262,35	-3,2	414,810	6014,75	331,663	4809,11	414,750	6013,88	3,187	
44	3266,3	3263,13	-3,2	414,346	6008,02	331,880	4812,26	414,369	6008,35	1,260	Super Charged
4	3266,5	3263,32	-3,2	415,490	6024,61	331,850		4811,83	6011,76	2,297	Super Charged
5	3267,0	3263,76	-3,2	415,177	6020,07	331,699	4809,64	415,060	6018,37	5,317	
54	3267,0	3263,76	-3,2	414,116	6004,68	331,707	4809,75	414,020	6003,29		
43	3267,3	3264,03	-3,3	414,514	6010,45		4750,00	414,428	6009,21		Tight
6	3270,0	3266,60	-3,4	415,506	6024,84	332,550	4821,98	415,693	6027,55	0,707	Super Charged
7	3272,5	3269,31	-3,2	415,798	6029,07	350,569	5083,25	415,870	6030,12	1,343	Super Charged
9	3272,5	3269,31	-3,2	415,667	6027,17		4750,00	415,630	6026,64		Tight
10	3272,5	3269,31	-3,2	415,630	6026,64		4750,00	414,950	6016,78		Tight
42	3273,2	3270,01	-3,2	415,514	6024,95	333,436	4834,82	415,316	6022,08	0,900	Super Charged
8	3273,5	3270,26	-3,2	415,799	6029,09	332,301	4818,36	415,672	6027,24	1,623	
41	3276,5	3273,07	-3,4	415,652	6026,95		4750,00	415,472	6024,34		Tight
40	3277,0	3273,58	-3,4	415,725	6028,01		4750,00	415,781	6028,82		Tight
39	3279,0	3275,62	-3,4	416,062	6032,90		4750,00	415,847	6029,78		Tight
37	3280,0	3276,64	-3,4	416,006	6032,09		4750,00	416,101	6033,46		Tight
36	3280,3	3276,94	-3,4	415,930	6030,99		4750,00	416,017	6032,25		Tight
38	3280,5	3277,15	-3,4	416,176	6034,55		4750,00	416,123	6033,78		Tight
11	3286,5	3283,06	-3,4	417,248	6050,10	347,966	5045,51	417,270	6050,42		Super Charged
12	3287,0	3283,56	-3,4	417,440	6052,88	347,093	5032,85	417,480	6053,46	1,600	Super Charged
13	3290,0	3286,71	-3,3	417,870	6059,12	336,637	4881,24	417,960	6060,42	1,902	Super Charged
14	3294,5	3291,43	-3,1	418,284	6065,12	334,552	4851,00	418,420	6067,09	1,115	
15	3311,0	3307,84	-3,2	420,470	6096,82	335,932	4871,01	420,490	6097,11	3,974	
17	3321,5	3317,63	-3,9	421,770	6115,67		4750,00	421,460	6111,17		Tight
16	3322,0	3318,13	-3,9	421,870	6117,12		4750,00	421,770	6115,67		Tight
23	3328,5	3324,59	-3,9	422,270	6122,92	337,748	4897,35	422,198	6121,87	2,200	
24	3338,5	3334,34	-4,2	423,659	6143,06	338,560	4909,12	423,610	6142,35	1,900	
25	3359,5	3355,58	-3,9	426,166	6179,41	341,230	4947,84	426,184	6179,67	1,600	
27	3373,0	3369,38	-3,6	427,825	6203,46		4750,00	427,899	6204,54		Tight
26	3373,5	3369,88	-3,6	427,983	6205,75		4750,00	427,945	6205,20		Tight
28	3387,8	3384,54	-3,3	429,790	6231,96		4750,00	429,795	6232,03		Tight
29	3399,0	3396,22	-2,8	431,116	6251,18		4750,00	431,105	6251,02		Tight
31	3406,0	3402,28	-3,7	431,908	6262,67		4750,00	431,952	6263,30		Tight
30	3406,5	3402,81	-3,7	432,163	6266,36		4750,00	431,883	6262,30		Tight
32	3410,0	3406,46	-3,5	432,458	6270,64		4750,00	432,355	6269,15		Tight
33	3423,2	3419,11	-4,1	434,151	6295,19		4750,00	434,075	6294,09		Tight
35	3427,6	3423,51	-4,1	434,576	6301,35		4750,00	434,552	6301,00		Tight
34	3430,5	3426,41	-4,1	435,026	6307,88	353,143	5120,57	435,007	6307,60		Super Charged?

* NOTE: A formation pressure of 4750psi denotes tight formation (for plotting purposes only)

NOTE: All pressure measurements on Quartz gauge (ie. absolute pressure measured)

Table 2.11: Hvitveis well 6706/6-1 RCI Pressure Measurements

Details of the pressure testing and a full list of the sampling is provided Appendix. 7.

2.9.6 RCI Sampling

Five 840 cc samples and one 4000 cc sample were collected from the same depth in the gas zone in this well.

Detailed sampling history:

Several RCI samples were taken in the gas bearing reservoir at a depth of 3265.5mRKB (depth reference uncorrected LWD logging run). This depth corresponds to 3262.35mRKB for the depth shifted wireline logs. The sampling process started at 15:08 on June 8. Fluid was pumped through the tool in order to get as clean as possible formation fluid, before the actual sampling was started. During the fluid pump through process the resistivity of the fluid was monitored. The resistivity was very much stable and very slowly increasing from 0.283 to 0.303 ohmm by 19:30 when 43.2 liters of fluid had been pumped through the tool. For comparison, the resistivity of the mud filtrate was 0.0696 ohmm at 23.5°C with an equivalent resistivity of 0.0342 ohmm at reservoir temperature (70°C). This indicated that formation water rather than mud filtrate was pumped through the tool. The optical analyzer showed no signs of hydrocarbons. At 19:35 the tension in the wireline cable showed significant overpull (650 pounds) due to the rising tide, and it was decided to fill two 840cc chambers to secure samples in case the tool would break loose from the borehole wall, when the tension in the cable was released. During sampling, the resistivity unexpectedly rose to about 7000 ohmm and the sample bottles were overfilled by more than 200cc indicating that a compressible fluid most likely containing gas had been sampled.

The reason for the observed resistivities during pumping of fluid through the tool (approximately 0.28-0.30 ohmm), probably was due to that the resistivity read by the sensor resulted from a combined response from mud filtrate and gas bubbles. During the sampling, when the fluid was stationary in front of the resistivity meter, the sensor apparently made more direct contact with the gas bubbles resulting in very high resistivity readings.

After the two first chambers were sampled, it was decided to fill three more 840cc bottles and one large 4 liter chamber (Table 2.12). As all of the samples contained filtrate, the sampling apparently did not reach beyond the invaded zone of the well bore.

Test No.	Chamber Serial No.	Chamber Volume (cc)	Volume Pumped (cc)	Sampling Resistivity (ohmm)
46	369 137	840	1072	5100-7100
47	369 139	840	1083	5000
48	369 214	840	1640	7100
49	10 047 696	840	1593	5300
50	10 047 695	840	1520	6100
51	311 994	4000	6910	5500

Table 2.12: RCI sampling results

It was decided to open test bottles no. 47 and 50 at the well site to find out about the content of the chambers. The chambers contained gas and fluid as described in Table 2.13. The fluid was dominantly mud filtrate with a thin film of condensate. The fluid resistivity was 0.06-0.07 ohmm consistent with the mud filtrate sample from the mud referred to above. Some of the fluid (25 ml)

was put in a graded settling tube. After settling for a while the tube showed the following from bottom to top: mud filtrate, 1 ml brown scum, approximately 0.5 ml clear condensate on top. The condensate had an odour akin paint thinner and had a moderately bluish-white direct fluorescence.

Sample Chamber Serial No.	Gas (ft ³)	Fluid (ml)	Chamber pressure (bar)	Odour	Fluorescence	Fluid Resistivity (ohmm)	Comment
369 139	1.0	194	137.93	akin paint thinner	mod bluish-white direct	0.0661 at 15°C	Appeared to have a thin skim of gas condensate floating on the surface (clear fluid)
10 047 695	1.5	342	337.93	akin paint thinner	mod bluish-white direct	0.0728 at 15.1°C	Appeared to have a thin skim of gas condensate floating on the surface (clear fluid)

Table 2.13: Contents of opened RCI bottles onboard West Navigator

The fluid sample of the second chamber (10 047 695) was filtered and the resistivity of the filtrate was measured to 0.0736 ohmm at 14.6°C. The chloride content was measured to 110 000 ppm. For comparison the chloride content of the mud filtrate as measured from a mud sample was 120 000 ppm.

The gases recovered from both chambers were repeatedly analyzed through a chromatograph with the results documented in Table 2.14.

Sample Chamber Serial No.	Injection	Time	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	iC5 (ppm)	nC5 (ppm)
369 139	1	08:03:56	96200	12160	5946	934	1303	0	500
369 139	2	08:13:56	108515	12004	5692	928	1283	0	495
10 047695	1	08:28:56	196607	21010	10378	1772	2447	0	1119
10 047695	2	08:33:56	195274	19370	10397	1800	2344	0	1093

Table 2.14: Chromatographic break down of gas samples

At the onshore laboratory (Reslab as) the chambers were heated to approximately 65°C, pressurized to 650 bar, subsequently stabilized for 24 hours for the fluid to homogenize, and then transferred to storage bottles (Table 2.15). The 4 liter chamber was transferred to 3 bottles. Constant Mass Expansion (CME) and compositional analysis will be performed on bottle TS-18207. Bottle TS-1902 has been sent to geochemical analysis.

Chamber Serial No.	Chamber Volume (cc)	Storage Bottle No.	Drained Filtrate Volume (cc)	Flowing Reservoir Pressure (bar)	Flowing Temperature (°C)
369 137	840	TS-6304	220	331.89	69.4
369 214	840	TS-29005	310	331.78	72.8
10 047 696	840	TS-1303	340	334.15	72.8
311 994	4000	TS-61005	1000	330.51	73.0
		TS-18207		330.51	73.0
		TS-1902		330.51	73.0

Table 2.15: Transfer of RCI chamber contents to storage bottles

2.10 Fluid Analysis Summary

Reslab did the fluid analysis work onshore. There was no lab present at wellsite. Baker Atlas did one RCI run at TD of the 6706/6-1. The RCI run were successful, collecting 6 samples and trying 52 Pressure points.

See below for a summary of fluid analysis. For a full evaluation, please see Reslab Report, Transfer and PVT Analysis of Gas Condensate Samples, 6706/6-1. The samples were transferred to storage bottles, Table 2.16.

Sample No 2-369139 was opened at wellsite.				
RCI Samples				
RCI Chamber no	Opening pressure	Transferred to storage bottle	Drained filtrate CC, All samples contained Water/ mud filtrate	Comment
369137	200	TS-6304	220	
369214	500	TS-29005	310	
10047688	300	TS-1303	340	
311994	360	TS-61005	1000	4 liter chamber
		TS-18207		
		TS-1902		

Table 2.16: Transfer of RCI chambers, opening pressures and contents

The samples from the RCI chambers and one of the 3 transferred samples were transferred to a PVT cell for dew point determination. The results in Table 2.17 show that none of the samples are representative. All dew points are higher than reservoir pressure, indicating draw down and liquid segregation in the wellbore during sampling. The total content of liquid drop out in the samples indicates that this is a relatively dry gas condensate with a maximum liquid drop out around 1%.

The sample with the lowest Dew Point value closest to reservoir pressure is the most representative sample.

RCI Chamber no	Transferred to storage bottle	Transferred Volume, cc	Transfer pressure, Bar	Dew point pressure Bar
369137	TS-6304	300	650	435
369214	TS-29005	320	650	435
10047688	TS-1303	435	650	440
311994	TS-61005	750	650	
	TS-18207	750	650	390
	TS-1902	750	650	

Table 2.17: Transfer of RCI chambers to storage bottles, volumes and transfer pressures

A sample from the 4 liter chamber, Sample TS- 1902, was sent to Pencor for compositional analysis. A reservoir pressure to 200 psig flash was performed by Pencor on the reservoir fluid sample received from Esso Norge on August 14, 2003. The results of the compositional analysis performed on the flash gas, is shown in Table 2.18 below.

Compositional Analysis of Separator Gas				
Sampling Conditions: 13.8 bar (200 psig) at 26.7 °C (80 °F)				
Hvitveis RCI Sample from ProServe Cylinder TS-1902 (RCI Chamber 311994)				
Hvitveis Well No. 6706/6-0				
PENCOR ID No. 29137-01				
EPR-1256				
Component	Mole %	GPM @ 14.73 psia	Wt %	Mole Weight
Nitrogen	1,527	0,000	2,306	28,013
Carbon Dioxide	2,371	0,000	5,627	44,010
Hydrogen Sulfide	0,000	0,000	0,000	34,076
Methane	90,053	0,000	77,899	16,043
Ethane	3,266	0,872	5,295	30,070
Propane	1,431	0,394	3,402	44,097
Iso-Butane	0,219	0,071	0,685	58,123
N-Butane	0,361	0,114	1,132	58,123
Iso-Pentane	0,145	0,053	0,564	72,150
N-Pentane	0,124	0,045	0,483	72,150
Hexanes	0,131	0,055	0,610	85,642
Heptanes	0,372	0,155	1,997	100,926
Totals	100,000	1,759	100,000	
Calculated Properties of Gas				
Gas Specific Gravity	(Air = 1.00)		= 0,6417	
Net Heat of Combustion	(Btu/Cu.Ft. @ 14.73 Psia @ 60 °F)		Dry = 961,1	Real
Gross Heat of Combustion	(Btu/Cu.Ft. @ 14.73 Psia @ 60 °F)		Dry = 1 064,1	Real
Gross Heat of Combustion - Sat.	(Btu/Cu.Ft. @ 14.73 Psia @ 60 °F)		Wet = 1 045,5	
Gas Compressibility	(@ 1 Atm. @ 60 °F)		Z = 0,9975	

Table 2.18: Compositional analysis of Separator Gas

Hole size, inches,	Depth m mdrkb	Casing, Inches	Casing, Depth mmdrkb	Mud type	Mudweight (SG)	Leak off/ Formation Integrity Test (SG)
Shallow gas Pilot hole: 9 7/8"	1328-2050	--	--	Seawater	1.05	--
Main Well 42"	1331-1428	36	1422	Seawater	1.05	--
28"	1428-2050	20	2042	Seawater	1.05	1.27
17"	2050-3220	13 3/8	3211	KCL/ Glydril	1.22	1.49
12 1/4"	3220-3451	--	--	KCL/ Glydril	1.28	

Table 1.2: Hole sizes and Mudweight

GEOCHEMICAL REPORT ON WELL NOCS 6706/6-1

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Chapter 1

INTRODUCTION

1.1 General Well Information

The aims of the analytical program were mainly to evaluate the source potential and migrated hydrocarbons. One objective was to characterise and compare the migrated hydrocarbon stain in the sands between 3100 m and 3280 m with potential source shales.

Samples were chosen from a total of thirty-three samples (canned cuttings, swc and core chips) were analysed by various techniques including headspace gas composition and gas isotope composition, total organic carbon (TOC) content, Rock-Eval pyrolysis, thermal extraction- and pyrolysis-gas chromatography, visual kerogen analysis, vitrinite reflectance measurement, solvent extraction, liquid chromatography (MPLC), gas chromatography (saturated and aromatic hydrocarbon fractions), GC-MS and bulk fraction isotope analysis. These samples covered the interval from 2100 m to 3300 m. A water-based mud system was used in drilling the well although the composition of the mud also included the organic mud additive glycol. This causes problems in the interpretation of source potential as washing does not remove this from low mature shales and the source potential will be over-estimated.

Appendix 1. Tables

Table 1 Analytical program for 6706/6-1

Well	Sample Depth (m)	Sample Type	Sample Code	Description (applies to picking for screenings, TOC, Rock-Eval and Thermal extraction GC)	Headspace Gas	Headspace Gas Isotope	Washing	Lithology Description	Picking for screening	Ccp/swc preparation	Leco TOC	RockEval	Thermal Extraction GC	Pyrolysis GC	Picking for Extraction	Extraction Clean-Up	Iatroscan	Solvent Extraction	Topping	MPLC & Deasphaltene	EOM GC	Whole Oil GC	Sat GC	Aro GC	Sat GCMS (Quantitative)	Aro GCMS (Quantitative)	Carbon isotope of fractions + EOM	Vitrinite Reflectance	Visual kerogen
	Table nos.:				2a	2b		3			4a	4b																	
NOCS 6706/6-1	2100	cut	X03/0013-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	2100	cut	X03/0013-5	shale/claystone					x		x	x																	
NOCS 6706/6-1	2120	cut	X03/0014-1	shale/claystone			x	x	x		x	x		x													x	x	
NOCS 6706/6-1	2120	cut	X03/0014-3	shale/claystone					x		x	x																	
NOCS 6706/6-1	2140	cut	X03/0001-1	shale/claystone	x	x	x	x	x		x	x																	
NOCS 6706/6-1	2140	cut	X03/0001-5	shale/claystone					x		x	x																	
NOCS 6706/6-1	2200	cut	X03/0002-1	shale/claystone	x	x	x	x	x		x	x																	
NOCS 6706/6-1	2240	cut	X03/0015-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	2280	cut	X03/0003-1	shale/claystone	x	x	x	x	x		x	x																	
NOCS 6706/6-1	2340	cut	X03/0004-1	shale/claystone	x	x	x	x	x		x	x															x	x	
NOCS 6706/6-1	2360	cut	X03/0016-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	2500	cut	X03/0005-1	shale/claystone	x	x	x	x	x		x	x																	
NOCS 6706/6-1	2500	cut	X03/0005-2	sandstone/sand									x														x	x	
NOCS 6706/6-1	2680	cut	X03/0017-1	shale/claystone			x	x	x		x	x															x	x	
NOCS 6706/6-1	2700	cut	X03/0018-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	2720	cut	X03/0006-1	shale/claystone	x	x	x	x	x		x	x																	
NOCS 6706/6-1	2720	cut	X03/0006-2	sandstone/sand									x																
NOCS 6706/6-1	2770	mud															x				x								

Table 1 Analytical program for 6706/6-1

Well	Sample Depth (m)	Sample Type	Sample Code	Description (applies to picking for screening, TOC, Rock-Eval and Thermal extraction GC)	Headspace Gas	Headspace Gas Isotope	Washing	Lithology Description	Picking for screening	Ccp/swc preparation	Leco TOC	RockEval	Thermal Extraction GC	Pyrolysis GC	Picking for Extraction	Extraction Clean-Up	Iatroscan	Solvent Extraction	Topping	MPLC & Deasphaltene	EOM GC	Whole Oil GC	Sat GC	Aro GC	Sat GCMS (Quantitative)	Aro GCMS (Quantitative)	EOM	Vitrinite Reflectance	Visual kerogen
	Table nos.:				2a	2b	3				4a	4b																	
NOCS 6706/6-1	2800	cut	X03/0019-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	2820	cut	X03/0020-1	shale/claystone			x	x	x		x	x			x			x		x			x	x				x	x
NOCS 6706/6-1	2860	cut	X03/0007-1	shale/claystone	x	x	x	x	x		x	x																	
NOCS 6706/6-1	2900	cut	X03/0021-1	shale/claystone			x	x	x		x	x																x	x
NOCS 6706/6-1	2980	cut	X03/0022-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	3040	cut	X03/0008-1	shale/claystone	x	x	x	x	x		x	x																x	x
NOCS 6706/6-1	3140	cut	X03/0009-1	shale/claystone	x	x	x	x	x		x	x																x	x
NOCS 6706/6-1	3140	cut	X03/0009-2	sandstone/sand									x		x			x		x			x	x				x	x
NOCS 6706/6-1	3160	cut	X03/0023-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	3200	cut	X03/0010-1	shale/claystone	x	x	x	x	x		x	x																	
NOCS 6706/6-1	3200	cut	X03/0010-2	sandstone/sand									x															x	x
NOCS 6706/6-1	3244	swc	X03/0030-1	sandstone/sand						x			x				x		x				x	x					
NOCS 6706/6-1	3260	cut	X03/0024-1	shale/claystone			x	x	x		x	x																	
NOCS 6706/6-1	3265.5	swc	X03/0031-1	sandstone/sand						x			x																
NOCS 6706/6-1	3270	swc	X03/0032-1	sandstone/sand						x			x																
NOCS 6706/6-1	3273	swc	X03/0033-1	sandstone/sand						x			x																
NOCS 6706/6-1	3278	ccp	X03/0011-1	sandstone/sand						x			x																
NOCS 6706/6-1	3279.77	ccp	X03/0027-1	shale/claystone			x	x	x	x	x	x																	
NOCS 6706/6-1	3280	cut	X03/0026-1	shale/claystone	x	x	x	x	x		x	x																x	x
NOCS 6706/6-1	3280.92	ccp	X03/0028-1	shale/claystone			x	x	x	x	x	x																	
NOCS 6706/6-1	3282.75	ccp	X03/0029-1	shale/claystone			x	x	x	x	x	x						x		x			x	x					
NOCS 6706/6-1	3283.55	ccp	X03/0012-2	sandstone/sand						x			x																
NOCS 6706/6-1	3300	cut	X03/0025-2	shale/claystone			x	x	x		x	x																	
Total					11	11	27	27	30	9	30	30	10	1	2			5		4	1		4	4				10	10

Table 2a Headspace gas amounts: HEADSPAC

Well name	Lower depth (m)	C1	C2	C3	iC4	nC4	iC5	nC5	nC6	C5+	Sum C1-C4	Sum C2-C4	Wetness	iC4/nC4
NOCS 6706/6-1	2140	9773	298	5	31	1	7	0	0	10	10108	335	3.3	36.96
NOCS 6706/6-1	2200	10666	420	11	65	2	25	0	0	32	11164	498	4.5	32.09
NOCS 6706/6-1	2280	12790	529	23	111	5	50	2	0	75	13458	668	5	21.86
NOCS 6706/6-1	2340	20158	734	160	142	40	51	10	2	91	21235	1077	5.1	3.54
NOCS 6706/6-1	2500	10862	690	476	177	143	69	32	7	170	12347	1485	12	1.24
NOCS 6706/6-1	2720	12071	1250	1077	375	271	138	56	12	306	15044	2973	19.8	1.39
NOCS 6706/6-1	2860	6621	969	1160	437	333	171	78	20	420	9519	2899	30.50	1.31
NOCS 6706/6-1	3040	13836	861	1185	420	408	182	107	28	482	16709	2873	17.20	1.03
NOCS 6706/6-1	3140	23498	2331	2971	716	847	289	188	52	860	30363	6865	22.60	0.85
NOCS 6706/6-1	3200	12275	1955	2434	637	761	274	190	49	859	18061	5786	32.00	0.84
NOCS 6706/6-1	3280	3384	282	235	54	80	36	28	10	129	4035	652	16.1	0.67

Table 2b Headspace gas amounts: HEADSPAC

Well name	Lower depth (m)	C1	C2	C3	iC4	nC4	CO2
NOCS 6706/6-1	2140	-46.59	-33.76				-16.36
NOCS 6706/6-1	2200	-45.34	-32.39				-18.92
NOCS 6706/6-1	2280	-43.31	-29.46				-17.18
NOCS 6706/6-1	2340	-43.44	-31.65	-30.36	-30.92	-31.17	
NOCS 6706/6-1	2500	-43.41	-31.10	-30.76	-30.99	-31.49	
NOCS 6706/6-1	2720	-40.99	-30.28	-30.15	-30.72	-30.11	-13.54
NOCS 6706/6-1	2860	-39.33	-31.30	-31.50	-32.64	-32.32	-12.71
NOCS 6706/6-1	3040	-38.56	-30.56	-31.04	-32.69	-31.97	-15.00
NOCS 6706/6-1	3140	-37.74	-31.31	-31.70	-31.12	-33.24	-15.38
NOCS 6706/6-1	3200	-38.00	-31.22	-31.54	-30.58	-30.85	-14.79
NOCS 6706/6-1	3280	-41.63	-32.11	-30.91	-30.42	-31.44	-10.89

Table 3 Sample descriptions: SAMPLES

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	Sample number
NOCS 6706/6-1	2100	2100	cut	bulk fraction		X03/0013-0
NOCS 6706/6-1	2100	2100	cut	shale/claystone	60	X03/0013-1
NOCS 6706/6-1	2100	2100	cut	sandstone/sand	15	X03/0013-2
NOCS 6706/6-1	2100	2100	cut	contaminant	10	X03/0013-3
NOCS 6706/6-1	2100	2100	cut	carbonate	5	X03/0013-4
NOCS 6706/6-1	2100	2100	cut	shale/claystone	10	X03/0013-5
NOCS 6706/6-1	2120	2120	cut	bulk fraction		X03/0014-0
NOCS 6706/6-1	2120	2120	cut	shale/claystone	70	X03/0014-1
NOCS 6706/6-1	2120	2120	cut	sandstone/sand	20	X03/0014-2
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	X03/0014-3
NOCS 6706/6-1	2140	2140	cut	bulk fraction		X03/0001-0
NOCS 6706/6-1	2140	2140	cut	shale/claystone	60	X03/0001-1
NOCS 6706/6-1	2140	2140	cut	sandstone/sand	25	X03/0001-2
NOCS 6706/6-1	2140	2140	cut	carbonate	5	X03/0001-4
NOCS 6706/6-1	2140	2140	cut	shale/claystone	10	X03/0001-5
NOCS 6706/6-1	2200	2200	cut	bulk fraction		X03/0002-0
NOCS 6706/6-1	2200	2200	cut	shale/claystone	95	X03/0002-1
NOCS 6706/6-1	2200	2200	cut	sandstone/sand	5	X03/0002-2

Table 3 Sample descriptions: SAMPLES

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	Sample number
NOCS 6706/6-1	2240	2240	cut	bulk fraction		X03/0015-0
NOCS 6706/6-1	2240	2240	cut	shale/claystone	80	X03/0015-1
NOCS 6706/6-1	2240	2240	cut	sandstone/sand	20	X03/0015-2
NOCS 6706/6-1	2280	2280	cut	bulk fraction		X03/0003-0
NOCS 6706/6-1	2280	2280	cut	shale/claystone	90	X03/0003-1
NOCS 6706/6-1	2280	2280	cut	sandstone/sand	10	X03/0003-2
NOCS 6706/6-1	2340	2340	cut	bulk fraction		X03/0004-0
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	sandstone/sand	10	X03/0004-2
NOCS 6706/6-1	2360	2360	cut	bulk fraction		X03/0016-0
NOCS 6706/6-1	2360	2360	cut	shale/claystone	90	X03/0016-1
NOCS 6706/6-1	2360	2360	cut	sandstone/sand	10	X03/0016-2
NOCS 6706/6-1	2500	2500	cut	bulk fraction		X03/0005-0
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	sandstone/sand	15	X03/0005-2
NOCS 6706/6-1	2680	2680	cut	bulk fraction		X03/0017-0
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	sandstone/sand	20	X03/0017-2
NOCS 6706/6-1	2700	2700	cut	bulk fraction		X03/0018-0
NOCS 6706/6-1	2700	2700	cut	shale/claystone	65	X03/0018-1

Table 3 Sample descriptions: SAMPLES

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	Sample number
NOCS 6706/6-1	2700	2700	cut	sandstone/sand	35	X03/0018-2
NOCS 6706/6-1	2720	2720	cut	bulk fraction		X03/0006-0
NOCS 6706/6-1	2720	2720	cut	shale/claystone	85	X03/0006-1
NOCS 6706/6-1	2720	2720	cut	sandstone/sand	15	X03/0006-2
NOCS 6706/6-1	2770	2770	mud	bulk fraction	100	X03/0035-0
NOCS 6706/6-1	2800	2800	cut	bulk fraction		X03/0019-0
NOCS 6706/6-1	2800	2800	cut	shale/claystone	60	X03/0019-1
NOCS 6706/6-1	2800	2800	cut	sandstone/sand	30	X03/0019-2
NOCS 6706/6-1	2800	2800	cut	contaminant	10	X03/0019-3
NOCS 6706/6-1	2800	2800	cut	contaminant	tr	X03/0019-4
NOCS 6706/6-1	2820	2820	cut	bulk fraction		X03/0020-0
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	sandstone/sand	40	X03/0020-2
NOCS 6706/6-1	2820	2820	cut	contaminant	tr	X03/0020-3
NOCS 6706/6-1	2860	2860	cut	bulk fraction		X03/0007-0
NOCS 6706/6-1	2860	2860	cut	shale/claystone	75	X03/0007-1
NOCS 6706/6-1	2860	2860	cut	sandstone/sand	25	X03/0007-2
NOCS 6706/6-1	2900	2900	cut	bulk fraction		X03/0021-0
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	sandstone/sand	50	X03/0021-2

Table 3 Sample descriptions: SAMPLES

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	Sample number
NOCS 6706/6-1	2900	2900	cut	contaminant	tr	X03/0021-3
NOCS 6706/6-1	2980	2980	cut	bulk fraction		X03/0022-0
NOCS 6706/6-1	2980	2980	cut	shale/claystone	70	X03/0022-1
NOCS 6706/6-1	2980	2980	cut	sandstone/sand	30	X03/0022-2
NOCS 6706/6-1	3040	3040	cut	bulk fraction		X03/0008-0
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	sandstone/sand	40	X03/0008-2
NOCS 6706/6-1	3140	3140	cut	bulk fraction		X03/0009-0
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	20	X03/0009-2
NOCS 6706/6-1	3160	3160	cut	bulk fraction		X03/0023-0
NOCS 6706/6-1	3160	3160	cut	shale/claystone	80	X03/0023-1
NOCS 6706/6-1	3160	3160	cut	sandstone/sand	20	X03/0023-2
NOCS 6706/6-1	3160	3160	cut	carbonate	tr	X03/0023-3
NOCS 6706/6-1	3200	3200	cut	bulk fraction		X03/0010-0
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	sandstone/sand	10	X03/0010-2
NOCS 6706/6-1	3244	3244	swc	bulk fraction		X03/0030-0
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	100	X03/0030-1
NOCS 6706/6-1	3260	3260	cut	bulk fraction		X03/0024-0

Table 3 Sample descriptions: SAMPLES

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	Sample number
NOCS 6706/6-1	3260	3260	cut	shale/claystone	65	X03/0024-1
NOCS 6706/6-1	3260	3260	cut	sandstone/sand	5	X03/0024-2
NOCS 6706/6-1	3260	3260	cut	contaminant	30	X03/0024-3
NOCS 6706/6-1	3265.5	3265.5	swc	bulk fraction		X03/0031-0
NOCS 6706/6-1	3265.5	3265.5	swc	sandstone/sand	100	X03/0031-1
NOCS 6706/6-1	3265.5	3265.5	swc	contaminant	tr	X03/0031-2
NOCS 6706/6-1	3270	3270	swc	bulk fraction		X03/0032-0
NOCS 6706/6-1	3270	3270	swc	sandstone/sand	100	X03/0032-1
NOCS 6706/6-1	3273	3273	swc	bulk fraction		X03/0033-0
NOCS 6706/6-1	3273	3273	swc	sandstone/sand	100	X03/0033-1
NOCS 6706/6-1	3278	3278	ccp	bulk fraction		X03/0011-0
NOCS 6706/6-1	3278	3278	ccp	sandstone/sand	100	X03/0011-1
NOCS 6706/6-1	3279.77	3279.77	ccp	bulk fraction		X03/0027-0
NOCS 6706/6-1	3279.77	3279.77	ccp	shale/claystone	100	X03/0027-1
NOCS 6706/6-1	3280	3280	cut	bulk fraction		X03/0026-0
NOCS 6706/6-1	3280	3280	cut	shale/claystone	70	X03/0026-1
NOCS 6706/6-1	3280	3280	cut	sandstone/sand	15	X03/0026-2
NOCS 6706/6-1	3280	3280	cut	contaminant	15	X03/0026-3
NOCS 6706/6-1	3280.92	3280.92	ccp	bulk fraction		X03/0028-0
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	X03/0028-1

Table 3 Sample descriptions: SAMPLES

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	Sample number
NOCS 6706/6-1	3282.75	3282.75	ccp	bulk fraction		X03/0029-0
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	100	X03/0029-1
NOCS 6706/6-1	3283.55	3283.55	ccp	bulk fraction		X03/0012-0
NOCS 6706/6-1	3283.55	3283.55	ccp	shale/claystone	95	X03/0012-1
NOCS 6706/6-1	3283.55	3283.55	ccp	sandstone/sand	5	X03/0012-2
NOCS 6706/6-1	3300	3300	cut	bulk fraction		X03/0025-0
NOCS 6706/6-1	3300	3300	cut	sandstone/sand	90	X03/0025-1
NOCS 6706/6-1	3300	3300	cut	shale/claystone	5	X03/0025-2
NOCS 6706/6-1	3300	3300	cut	contaminant	5	X03/0025-3

Table 4a %TOC

Well	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	TOC	Sample number
NOCS 6706/6-1	2100	2100	cut	shale/claystone	70	1.27	X03/0013-1+ 5
NOCS 6706/6-1	2100	2100	cut	lam shale/claystone	10	1.61	X03/0013-5
NOCS 6706/6-1	2120	2120	cut	shale/claystone	80	1.18	X03/0014-1+3
NOCS 6706/6-1	2120	2120	cut	lam shale/claystone	10	1.4	X03/0014-3
NOCS 6706/6-1	2140	2140	cut	shale/claystone	70	1.13	X03/0001-1+5
NOCS 6706/6-1	2140	2140	cut	lam shale/claystone	10	1.5	X03/0001-5
NOCS 6706/6-1	2200	2200	cut	shale/claystone	95	1.09	X03/0002-1
NOCS 6706/6-1	2240	2240	cut	shale/claystone	80	1.15	X03/0015-1
NOCS 6706/6-1	2280	2280	cut	shale/claystone	90	0.86	X03/0003-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	1.49	X03/0004-1
NOCS 6706/6-1	2360	2360	cut	shale/claystone	90	1.3	X03/0016-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	1.27	X03/0005-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	1.29	X03/0017-1
NOCS 6706/6-1	2700	2700	cut	shale/claystone	65	1.51	X03/0018-1
NOCS 6706/6-1	2720	2720	cut	shale/claystone	85	1.52	X03/0006-1
NOCS 6706/6-1	2800	2800	cut	shale/claystone	60	1.79	X03/0019-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	1.68	X03/0020-1
NOCS 6706/6-1	2860	2860	cut	shale/claystone	75	1.45	X03/0007-1

Table 4a %TOC

Well	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	TOC	Sample number
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	1.67	X03/0021-1
NOCS 6706/6-1	2980	2980	cut	shale/claystone	70	1.66	X03/0022-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	1.59	X03/0008-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	1.51	X03/0009-1
NOCS 6706/6-1	3160	3160	cut	shale/claystone	80	1.54	X03/0023-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	1.33	X03/0010-1
NOCS 6706/6-1	3260	3260	cut	shale/claystone	65	1.27	X03/0024-1
NOCS 6706/6-1	3279.77	3279.77	ccp	shale/claystone	100	1.55	X03/0027-1
NOCS 6706/6-1	3280	3280	cut	shale/claystone	70	1.16	X03/0026-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	1.64	X03/0028-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	100	1.54	X03/0029-1
NOCS 6706/6-1	3300	3300	cut	shale/claystone	5	1.34	X03/0025-2

GEOLABNOR

Table 4b RockEval data

Well	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lith.	S1	S2	S3	TOC	Tmax	S2/S3	HI	OI	PP	PI	Sample number	RockInt corrected S2	RockInt corrected Tmax
NOCS 6706/6-1	2100	2100	cut	shale/claystone	70	4.1	5.73	3.79	1.27	358	1.51	451	298	9.8	0.42	X03/0013-1+5	0.8	407
NOCS 6706/6-1	2100	2100	cut	lam shale/claystone	10	5.44	7.01	4.55	1.61	360	1.54	435	283	12.5	0.44	X03/0013-5	1.1	408
NOCS 6706/6-1	2120	2120	cut	shale/claystone	80	4.89	5.57	3.83	1.18	361	1.45	472	325	10.5	0.47	X03/0014-1+3	0.8	409
NOCS 6706/6-1	2120	2120	cut	lam shale/claystone	10	7.21	6.62	4.06	1.4	362	1.63	473	290	13.8	0.52	X03/0014-3	1.1	408
NOCS 6706/6-1	2140	2140	cut	shale/claystone	70	2.26	4.62	3.68	1.13	354	1.26	409	326	6.9	0.33	X03/0001-1+5	0.8	410
NOCS 6706/6-1	2140	2140	cut	lam shale/claystone	10	11.4	8.31	4.88	1.5	353	1.7	554	325	19.7	0.58	X03/0001-5	0.8	407
NOCS 6706/6-1	2200	2200	cut	shale/claystone	95	3.16	4.2	3.04	1.09	361	1.38	385	279	7.4	0.43	X03/0002-1	0.6	419
NOCS 6706/6-1	2240	2240	cut	shale/claystone	80	4.72	5.37	3.26	1.15	366	1.65	467	283	10.1	0.47	X03/0015-1	0.8	416
NOCS 6706/6-1	2280	2280	cut	shale/claystone	90	3.06	3.61	2.71	0.86	350	1.33	420	315	6.7	0.46	X03/0003-1	0.5	407
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	5.02	5.8	4.28	1.49	364	1.36	389	287	10.8	0.46	X03/0004-1	0.8	422
NOCS 6706/6-1	2360	2360	cut	shale/claystone	90	2.36	5.13	3.24	1.3	363	1.58	395	249	7.5	0.32	X03/0016-1	0.8	420
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	2.36	4.85	2.15	1.27	366	2.26	382	169	7.2	0.33	X03/0005-1	0.8	416
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	3.13	4.8	4.39	1.29	359	1.09	372	340	7.9	0.39	X03/0017-1	1.28	405
NOCS 6706/6-1	2700	2700	cut	shale/claystone	65	3.22	5.54	3.03	1.51	364	1.83	367	201	8.8	0.37	X03/0018-1	1.35	426
NOCS 6706/6-1	2720	2720	cut	shale/claystone	85	2.76	4.91	2.93	1.52	356	1.68	323	193	7.7	0.36	X03/0006-1	1.17	426
NOCS 6706/6-1	2800	2800	cut	shale/claystone	60	3.41	6.96	2.75	1.79	359	2.53	389	154	10.4	0.33	X03/0019-1	1.22	423
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	2.73	5.74	2.14	1.68	353	2.68	342	127	8.5	0.32	X03/0020-1	1.59	431
NOCS 6706/6-1	2860	2860	cut	shale/claystone	75	2.32	5.5	1.95	1.45	354	2.82	379	134	7.8	0.3	X03/0007-1	1.29	430
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	4.03	6.31	3.8	1.67	363	1.66	378	228	10.3	0.39	X03/0021-1	1.56	431
NOCS 6706/6-1	2980	2980	cut	shale/claystone	70	3.11	5.96	2.33	1.66	360	2.56	359	140	9.1	0.34	X03/0022-1	1.76	434
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	2.98	5.71	1.93	1.59	354	2.96	359	121	8.7	0.34	X03/0008-1	1.49	435
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	2.03	4.5	2.25	1.51	351	2	298	149	6.5	0.31	X03/0009-1	1.59	440
NOCS 6706/6-1	3160	3160	cut	shale/claystone	80	1.57	4.53	1.48	1.54	353	3.06	294	96	6.1	0.26	X03/0023-1	1.66	441
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	1.01	3.39	1.09	1.33	348	3.11	255	82	4.4	0.23	X03/0010-1	1.12	439
NOCS 6706/6-1	3260	3260	cut	shale/claystone	65	1.32	3.32	2.29	1.27	355	1.45	261	180	4.6	0.28	X03/0024-1	1.39	439
NOCS 6706/6-1	3279.77	3279.77	ccp	shale/claystone	100	0.31	2.02	0.84	1.55	445	2.4	130	54	2.3	0.13	X03/0027-1	1.58	445
NOCS 6706/6-1	3280	3280	cut	shale/claystone	70	2.25	3.63	2.87	1.16	355	1.26	313	247	5.9	0.38	X03/0026-1	1.03	439
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.24	1.94	0.48	1.64	444	4.04	118	29	2.2	0.11	X03/0028-1	1.69	444
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	100	0.32	2.2	1.47	1.54	446	1.5	143	95	2.5	0.13	X03/0029-1	1.77	446
NOCS 6706/6-1	3300	3300	cut	shale/claystone	5	1.2	3.39	1.87	1.34	357	1.81	253	140	4.6	0.26	X03/0025-2	1.39	441

most reliable data in bold

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.41	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.43	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.48	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.43	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.41	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.42	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.42	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.47	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.32	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.54	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.48	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.4	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.49	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.53	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.4	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.47	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.4	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.48	X03/0014-3

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.46	X03/0014-3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.44	X03/0014-3
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.52	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.45	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.46	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.55	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.41	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.51	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.4	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.38	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.54	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.49	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.38	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.37	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.44	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.54	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.47	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.36	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.44	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.47	X03/0004-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.53	X03/0004-1
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.41	X03/0004-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.48	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.52	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.54	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.44	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.52	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.47	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.49	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.44	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.48	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.49	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.37	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.43	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.41	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.48	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.49	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.54	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.5	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.45	X03/0005-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.47	X03/0005-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.48	X03/0005-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.47	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.46	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.42	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.42	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.53	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.46	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.48	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.4	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.56	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.55	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.51	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.51	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.48	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.53	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.55	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.57	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.49	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.49	X03/0017-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.49	X03/0017-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.54	X03/0017-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.5	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.5	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.57	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.46	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.58	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.52	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.59	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.42	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.56	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.5	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.58	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.46	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.41	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.47	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.49	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.39	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.54	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.52	X03/0020-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.54	X03/0020-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.46	X03/0020-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.56	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.6	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.49	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.6	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.62	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.53	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.46	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.47	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.48	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.53	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.46	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.51	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.58	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.64	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.53	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.45	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.56	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.47	X03/0021-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.48	X03/0021-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.54	X03/0021-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.67	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.58	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.52	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.51	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.62	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.62	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.54	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.53	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.6	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.57	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.53	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.48	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.57	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.54	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.63	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.57	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.49	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.46	X03/0008-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.54	X03/0008-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.63	X03/0008-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.48	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.57	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.64	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.48	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.63	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.51	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.57	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.64	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.65	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.65	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.68	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.57	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.55	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.62	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.58	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.6	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.63	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.46	X03/0009-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.49	X03/0009-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.66	X03/0009-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.58	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.6	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.59	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.55	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.56	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.59	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.54	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.55	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.66	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.57	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.68	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.67	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.74	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.63	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.72	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.72	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.64	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.74	X03/0010-1

Table 5a. Vitrinite Reflectance raw data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	Sample number
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.73	X03/0010-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.58	X03/0010-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.64	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.7	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.69	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.53	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.65	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.73	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.7	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.69	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.74	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.67	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.69	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.67	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.71	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.77	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.6	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.64	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.63	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.7	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.74	X03/0028-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.73	X03/0028-1

Table 5b. Vitrinite Reflectance data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	%Ro	No. readings	Std.dev.	Fluor.	Sample number
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	0.44	20	0.05	4	X03/0014-3
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	0.46	20	0.06	4	X03/0004-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	0.47	20	0.04	6	X03/0005-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	0.5	20	0.05	6	X03/0017-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	0.5	20	0.06	5	X03/0020-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	0.53	20	0.06	6	X03/0021-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	0.56	20	0.06	7	X03/0008-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	0.58	20	0.07	6	X03/0009-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	0.63	20	0.07	6	X03/0010-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	0.68	20	0.06	7	X03/0028-1

Table 5c. Vitrinite Reflectance Maturity comments

Upper Depth (m)	Lower Depth (m)	Vitrinite Reflectance			UV Fluorescence			Comments
		R.o.Ave.	No.	Conf.	Form	Content	Colour	
2120	2120	0.44	20	D	Spores	Trace	Y/O	Silty shale. Some H/C impregnation of vitrinite
2340	2340	0.46	20	D	Algae	Trace	Y-Y/O	Silty shale
					Spores	Trace	Y/O	
2500	2500	0.47	20	D	Algae	Trace	Y/O	Shale, marly, silty, soft. Glauconite. Some H/C impregnation of vitrinite
					Spores	Trace	LO-MO	
2680	2680	0.50	20	D	Algae	Trace	Y/O	80%shale, silty, 20%carbonate. Glauconite
					Spores	Trace	L-MO	
2820	2820	0.50	20	D	Spores	Trace	LO	20%siltstone, 80%shale
2900	2900	0.53	20	C	Spores	Trace	MO	Shale, silty. Glauconite
3040	3040	0.56	20	D	Spores	Trace	DO	60%siltstone, 30%shale, 10%carbonate. Glauconite
3140	3140	0.58	20	C	Spores	Trace	MO	Shale, silty. Glauconite
3200	3200	0.63	20	C	Algae	Trace	LO	Shale
					Spores	Trace	MO	
3280	3280	0.68	20	C	Spores	Trace	M-DO	Shale

Table 5d. Vitrinite Reflectance petrography

Upper Depth (m)	Lower Depth (m)	Amorphinite	Bitumen	Phytoclasts							Comments
				Content	Composition (%)				Vitr.	Inert./Reworked	
					Liptinite						
				Algae	Spores	Cuticle	Resin				
2120	2120	Moderate	-	Low-Mod.	-	Trace	-	-	10	90	Some H/C impregnation of vit.
2340	2340	Var.-Mod.	-	Low-Mod.	Trace	Trace	-	-	10	90	-
2500	2500	Var.- Low-Rich	-	Low-Mod.	Trace	Trace	-	-	10	90	Some H/C impregnation of vit.
2680	2680	Mod-Rich in shale	-	Low-Mod.	Trace	Trace	-	-	Trace	100	-
2820	2820	Mod-Rich in shale Low in silt	-	Low-Mod.	-	Trace	-	-	10	90	-
2900	2900	Moderate	-	Low-Mod.	-	Trace	-	-	20	80	-
3040	3040	Var.- Low-Mod.	-	Low	-	Trace	-	-	10	90	-
3140	3140	Mod-Rich	-	Moderate	-	Trace	-	-	10	90	-
3200	3200	Mod-Rich	-	Moderate	Trace	Trace	-	-	10	90	-
3280	3280	Mod-Rich	-	Low-Mod.	-	Trace	-	-	10	90	-

Table 6 Visual kerogen

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lithology	AM %	AP %	HE %	WO %	CO %	SCI	Sample number
NOCS 6706/6-1	2120	2120	cut	shale/claystone	70	45	5	15	20	15	4.0	X03/0014-1+3
NOCS 6706/6-1	2120	2120	cut	shale/claystone	10	45	TR	10	25	20	4.0	X03/0014-3
NOCS 6706/6-1	2340	2340	cut	shale/claystone	90	10	5	25	40	20	4.5-5.0	X03/0004-1
NOCS 6706/6-1	2500	2500	cut	shale/claystone	85	10	5	30	25	30	5.0	X03/0005-1
NOCS 6706/6-1	2680	2680	cut	shale/claystone	80	5	5	35	35	20	5.5(?)	X03/0017-1
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	10	5	35	30	20	5.5(?)	X03/0020-1
NOCS 6706/6-1	2900	2900	cut	shale/claystone	50	5	TR	35	35	25	6.0	X03/0021-1
NOCS 6706/6-1	3040	3040	cut	shale/claystone	60	10	5	30	30	25	6.0	X03/0008-1
NOCS 6706/6-1	3140	3140	cut	shale/claystone	80	10	TR	30	35	25	5.0-6.5	X03/0009-1
NOCS 6706/6-1	3200	3200	cut	shale/claystone	90	5	TR	35	35	25	6.0	X03/0010-1
NOCS 6706/6-1	3280.92	3280.92	ccp	shale/claystone	100	75	TR	10	10	5	6.5	X03/0028-1

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Table 7a. Extraction data: EXTRACT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Rock extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	NSO (mg)	Asph (mg)	TOC(e)	HC	Non-HC	Sample number
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	11.44	142.5	0.93	2.79	92.08	46.7	1.05	3.72	138.78	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	20	12.8	36.8	1.14	1.71	29.4	4.55	1.18	2.85	33.95	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	100	2.77	98.1	1.14	0.57	37.68	58.7	0.77	1.71	96.39	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	100	11.1	28.9	1.28	3.83	11.5	12.3	1.68	5.11	23.79	X03/0029-1

Table 7b. Extraction data: EXTRACT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	EOM (ppm)	Sat (ppm)	Aro (ppm)	NSO (ppm)	Asph (ppm)	HC (ppm)	Non-HC (ppm)	Sample number
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	12456	81	244	8049	4081	325	12131	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	20	2875	89	134	2297	355	223	2652	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	100	35415	412	206	13603	21195	617	34798	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	100	2604	115	345	1036	1108	460	2143	X03/0029-1

Table 7c. Extraction data: EXTRACT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	EOM (mg/g TOC)	Sat (mg/g TOC)	Aro (mg/g TOC)	NSO (mg/g TOC)	Asph (mg/g TOC)	Sample number
NOCS 6706/6-1	2820	2820	cut	shale/claystone	60	1186	8	23	767	389	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	20	244	8	11	195	30	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	100	4599	53	27	1767	2753	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	100	155	7	21	62	66	X03/0029-1

Table 7d. Extraction ratios: EXTRRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Sat/EOM	Aro/EOM	Asph/EOM	NSO/EOM	HC/EOM	Non-HC/EOM	HC/Non-HC	Sample number	
NOCS 6706/6-1	2820	2820	cut	shale/claystone	0.65	1.96	32.77	64.62	2.61	97.39	0.33	0.03	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	3.1	4.65	12.36	79.89	7.76	92.24	0.67	0.08	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	1.16	0.58	59.84	38.41	1.75	98.25	2	0.02	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	4.42	13.26	42.54	39.78	17.68	82.32	0.33	0.21	X03/0029-1

Table 8a. Saturated GC peak heights: SATGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20
NOCS 6706/6-1	2820	2820	cut	shale/claystone	376048	386196	89990	211595	172281	108639	35436	68732	53032
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	432076	453661	175603	375535	648172	431543	138207	431695	423678
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	15318	43490	17811	61616	62151	81922	21564	101876	103853
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	122820	251780	84597	349485	451633	450236	114238	524588	536669

nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
46197	40327	41634	31559	38877	24085	35747	16921	34741	13726	19783	4780	8745	2580	X03/0020-1
402082	386477	370673	327066	337985	279828	291500	186813	222929	100016	113817	39628	52008	24880	X03/0009-2
93443	87722	91225	96952	94211	84376	74030	55971	58564	34169	35470	16496	15556	8449	X03/0030-1
502403	482368	434930	393831	371078	313556	299514	215641	217888	113448	110269	49905	59716	36015	X03/0029-1

Table 8b. Saturated GC ratios, peak height: SATGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Prist/nC17	Prist/Phyt	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phyt/nC18	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
NOCS 6706/6-1	2820	2820	cut	shale/claystone	0.81	4.86	2.5	1.83	0.33	0.86	0.65	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	1.73	4.69	5.39	1.34	0.32	0.56	0.97	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	1.01	2.88	3.83	1.17	0.26	0.45	0.58	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	1.29	3.95	5.09	1.2	0.25	0.54	0.71	X03/0029-1

Table 8c. Saturated GC peak areas: SATGCPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	nC15	nC16	Nor - pristane	nC17	Pristane	nC18	Phytane	nC19	nC20
NOCS 6706/6-1	2820	2820	cut	shale/claystone	1626250	1656762	686965	984118	1170167	391656	225744	310193	300839
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	1928632	1963892	1039381	1911817	4285497	1809656	766925	1893014	1844930
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	93737	207675	141841	321669	378686	344306	148479	427495	442288
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	630942	1027443	520468	1562666	2548742	2021370	655789	2465183	2528727

nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
246285	209761	219528	174601	159428	107526	149002	90203	163013	75596	83870	30018	51982	22287	X03/0020-1
1767733	1648741	1625760	1421161	1492338	1074821	1175655	744531	851391	424580	433144	161823	279766	158585	X03/0009-2
430556	342433	331107	396327	440455	351114	338620	238347	220684	147793	142238	66999	91368	44853	X03/0030-1
2353985	2155819	1973329	1920303	1741817	1364369	1271921	873336	812247	477877	447494	184643	374436	241036	X03/0029-1

Table 8d. Saturated GC ratios, peak area: SATGCRPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Prist/nC17	Prist/Phyt	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phyt/nC18	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
NOCS 6706/6-1	2820	2820	cut	shale/claystone	1.19	5.18	2.06	1.54	0.58	0.87	1.01	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	2.24	5.59	5.29	1.36	0.42	0.62	1.36	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	1.18	2.55	2.73	1.21	0.43	0.49	0.79	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	1.63	3.89	5.03	1.2	0.32	0.55	0.89	X03/0029-1

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Table 9a. Aromatic GC peak heights: AROGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	2.6+2.7							
					2MN	1MN	BPh	2EN	1EN	DMN	1.6DMN	1.5DMN
NOCS 6706/6-1	2820	2820	cut	shale/claystone	4253	4279	0	4205	2465	6700	10430	5958
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	100565	79278	15257	26243	15490	75297	126445	32627
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	959	1477	2373	848	1016	6647	11486	3887
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	22762	22089	46037	15915	9365	107735	128184	32830

1.3.7 TMN	1.3.6TMN	1.3.5TMN	1.4.6+				2+3				Sample number		
			2.3.6TMN	P	3MP	2MP	9MP	1MP	DBT	4MDBT		MDBT	1MDBT
4049	10324	11742	10265	10778	3224	6264	3247	4045	0	0	0	0	X03/0020-1
34750	61590	53610	59718	69838	19972	19339	19719	26835	0	0	0	0	X03/0009-2
9640	13680	14052	12830	27074	11129	12166	13136	14279	0	0	0	0	X03/0030-1
74302	107379	80216	98218	370616	170653	211796	152534	174063	0	71374	23928	0	X03/0029-1

Table 9b. Aromatic GC ratios, peak height: AROGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	DBT/ 4/1 (3+2)/								Sample number				
					MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	Ph		MDBT	1MDBT	F1	F2
NOCS 6706/6-1	2820	2820	cut	shale/claystone	0.99	1.12	0	1.55	0.79	1.04	0.87	0	0	0	0.57	0.37	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	1.27	2.31	0.12	0.72	0.51	0.5	0.7	0	0	0	0.46	0.23	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0.65	1.71	0.21	0.85	0.64	0.67	0.78	0	0	0	0.46	0.24	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	1.03	3.28	0.36	1.22	0.82	0.91	0.89	0	0	0	0.54	0.3	X03/0029-1

Table 9c. Aromatic GC peak areas: AROGCPA

Well name	Upper	Lower	Sample	Description	2MN	1MN	BPh	2EN	1EN	2.6+2.7		
	depth (m)	depth (m)								DMN	1.6DMN	1.5DMN
NOCS 6706/6-1	2820	2820	cut	shale/claystone	22273	22858	0	26358	11028	51475	57318	36276
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	394938	303788	60547	109094	77703	376999	521572	138245
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	6514	9961	14831	3778	6147	45019	57602	19720
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	100861	91398	189859	67095	51063	549751	546851	137966

1.3.7TMN	1.3.6TMN	1.3.5TMN	TMN	P	3MP	2MP	9MP	1MP	DBT	4MDBT	MDBT	1MDBT	Sample number
30146	51464	48687	50533	72306	17644	40986	18796	25475	0	0	0	0	X03/0020-1
202675	241605	205573	243547	337533	93249	118826	88773	125527	0	0	0	0	X03/0009-2
58312	57670	52715	55427	138001	53693	71556	57372	72807	0	0	0	0	X03/0030-1
386126	423736	336641	391006	2340796	872836	1124469	759983	799919	0	252233	67260	0	X03/0029-1

Table 9d. Aromatic GC ratios, peak area: AROGCRPA

Well name	Upper	Lower	Sample	Description	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/Ph	4/1	(3+2)/1	Sample		
	depth (m)	depth (m)											MDBT	MDBT	F1	F2	number
NOCS 6706/6-1	2820	2820	cut	shale/claystone	0.97	1.42	0	1.61	0.75	1.05	0.85	0	0	0	0.57	0.4	X03/0020-1
NOCS 6706/6-1	3140	3140	cut	sandstone/sand	1.3	2.73	0.12	0.95	0.58	0.65	0.75	0	0	0	0.5	0.28	X03/0009-2
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0.65	2.28	0.26	0.98	0.7	0.8	0.82	0	0	0	0.49	0.28	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	1.1	3.98	0.35	1.41	0.77	0.86	0.86	0	0	0	0.56	0.32	X03/0029-1

Table 10 Carbon isotope data: CARBISOT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Whole oil	Topped oil	Sat	Aro	NSO	Asph	Kerogen	Canonical Variable	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	-	-	-28.27	-26.62	-	-	-	0.78	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	-	-	-28.38	-26.67	-	-	-	0.94	X03/0029-1

Table 11a Triterpanes peak heights, SIR: TRITPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	23/3 (P)	24/3 (Q)	25/3 (R)	24/4 (S)	26/3 (T)	27Ts (A)	27Tm (B)	28ab (Z)
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	9361.8	5031.7	2433.7	9109.8	1500.6	13049.9	10439.2	2540.8
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	15187.7	8971.6	2897.2	41543.7	2028.5	23016.2	53179.8	3349.8

25nor30ab

(Z1)	29ab (C)	29Ts (C1)	30d (X)	29ba (D)	30ab (E)	30ba (F)	31abS (G)	31abR (H)	31ba (I)	Sample number
0	29432.2	10379.7	3995.8	3077.1	35060.1	4337.4	10036	7270.1	1345.6	
5274.5	131218.4	35547.7	29407.3	11099	180062	23638.4	59206	46341.7	7749.3	
5803.1	3590.4	2834.3	1814.1	1580.1	959.4	973.2	581.7	X03/0030-1		
39136.8	23730.5	14974.8	8968.6	7397.3	4330.2	2264	1564.9	X03/0029-1		

Table 11b Triterpanes m/z 177 peak heights, SIR: TR177PHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	25nor28ab	25nor30ab	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0	1710.6	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	0	2461.9	X03/0029-1

Table 11c Steranes peak heights, SIR: STERPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	21a (u)	22a (v)	27dbS (a)	27dbR (b)	27daR (c)	27daS (d)	28dbS (e)	28dbR (f)
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	6584.6	3285	8391.8	4852	2653.3	1988.8	3713.7	1999.7
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	9379.1	4774.3	5761	4139.8	2896.3	1573.1	3127.7	1756.1

28daR	29dbS	28daS					29daS			
+27aaS (g)	+27bbR (h)	+27bbS (i)	27aaR (j)	29dbR (k)	29daR (l)	28aaS (m)	+28bbR (n)	28bbS (o)	28aaR (p)	
2892.4	8677.1	4552.1	3675.9	3204.3	1208.8	1549.5	3241.6	3217.8	1141.1	
1842.3	8823.3	3337.1	2555.9	3944.5	1299.7	1009.3	2687.3	2565.5	1819.9	

Sample				
29aaS (q)	29bbR (r)	29bbS (s)	29aaR (t)	number
2672.3	4058.9	4222.3	3125	X03/0030-1
4200.5	4496.9	4826.2	9037.1	X03/0029-1

Table 11d Steranes m/z 218 peak heights, SIR: ST218PHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	27bbR (h)	27bbS (i)	28bbR (n)	28bbS (o)	29bbR (r)	29bbS (s)	30bbR (x)	30bbS (y)	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	10096.4	6802.2	5205.9	5050.2	6144.8	7058.2	823.1	721.6	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	6580.1	3495.3	3908	3766.4	6718.1	7987.2	743.8	658.2	X03/0029-1

Table 11e. Triterpanes m/z 191 peak height ratios, SIR: TRITRATS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Sample number
					1	2	3	4	5	6	7	8	9	10	11	12	13	14		
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0.8	0.44	0.21	0.84	0.46	0.11	0.07	0.09	0.07	0.14	0.89	0.45	0.11	61.78	X03/0030-1	
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	2.31	0.7	0.21	0.73	0.42	0.16	0.02	0.03	0.02	0.05	0.88	0.41	0.11	62.25	X03/0029-1	

Table 11f. Steranes m/z 217 peak height ratios, SIR: STERRATS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio	Sample number
					1	2	3	4	5	6	7	8	9	10					
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0.7	46.1	74.07	1.1	0.76	0.41	0.3	0.59	0.86	2.65	X03/0030-1				
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	0.69	31.73	58.48	0.86	0.69	0.39	0.32	0.41	0.46	1.03	X03/0029-1				

Table 11g. Steranes peak height:MRM

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descrip-tion	27dbS (a)	27dbR (b)	27daR (c)	27daS (d)	28dbS (e)	28dbR (f)	28daR (g)	27aaS (g')	29dbS (h)	27bbR (h')
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	8883.7	5746.4	1577.9	2061.2	3773	2256.2	1071.5	2594.3	693.4	5321.7
28daS (i)	27bbS (i')	27aaR (j)	29dbR (k)	29daR (l)	28aaS (m)	29daS (n)	28bbR (n')	28bbS (o)	28aaR (p)	29aaS (q)	29bbR (r)	29bbS (s)	29aaR (t)	
3541.7	1209.6	3456.5	236.9	78.5	1370.4	3501.5	364	2459.4	1363.7	164.5	242	218.1	209.2	

30dbS	30dbR	30aaS	30bbR	30bbS	30aaR	Sample number
1236.6	998.7	743.3	864	861.7	908.3	X03/0030-1

Table 11h Steranes peak height ratios, MRM: STERRATM

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descrip-tion	Ratio 1	Ratio 2	Ratio 3	Ratio 5	Ratio 8	Ratio 9	Ratio 10	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0.72	44.01	71.12	0.74	0.55	0.79	2.2	X03/0030-1

Table 11i. MRM transition: m/z 358-217 Saturated Hydrocarbons peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	1	2	3	4	5	6	7	8	9	10	11
					24nordβS	24nordβR	27nordβS	27nordβR	24norαS	24norββR	24norββS	24norααR	21nor	27norααS	27norββR
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	NO DETERMINATION POSSIBLE										

MRM analysis Transition 358→217 Peak identification

peak	code	compound
1	24nordβS	20S 13β(H)17α(H) 24-nordiacholestane
2	24nordβR	20R 13β(H)17α(H) 24-nordiacholestane
3	27nordβS	20S 13β(H)17α(H) 27-nordiacholestane
4	27nordβR	20S 13β(H)17α(H) 27-nordiacholestane
5	24norαS	20S 14α(H)17α(H) 24-norcholestane
6	24norββR	20R 14β(H)17β(H) 24-norcholestane
7	24norββS	20S 14β(H)17β(H) 24-norcholestane
8	24norααR	20R 14α(H)17α(H) 24-norcholestane
9	21norββ+αα	14β(H)17β(H)+ 14α(H)17α(H) 21-norcholestane
10	27norααS	20S 14α(H)17α(H) 27-norcholestane
11	27norββR	20R 14β(H)17β(H) 27-norcholestane
12	27norββS	20S 14β(H)17β(H) 27-norcholestane
13	27norααR	20R 14α(H)17α(H) 27-norcholestane

Table 11j. MRM transition: m/z 358-217 Saturated Hydrocarbons Ratios (peak heights)

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	NDR	NCR	Ratio A	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	NO DETERMINATION POSSIBLE			

List of C₂₆ sterane ratios

$$\text{Ratio NDR: } (24\text{nor } d\beta S + 24\text{nor } d\beta R) / (24\text{nor } d\beta S + 24\text{nor } d\beta R + 27\text{nor } d\beta S + 27\text{nor } d\beta R)$$

$$\text{Ratio NCR: } (24 \alpha\alpha S + 24 \beta\beta R + 24 \beta\beta S + 24 \alpha\alpha R) / (24 \alpha\alpha S + 24 \beta\beta R + 24 \beta\beta S + 24 \alpha\alpha R + 27 \alpha\alpha S + 27 \beta\beta R + 27 \beta\beta S + 27 \alpha\alpha R)$$

$$\text{Ratio A: } (24\text{nor } d\beta S + 24\text{nor } d\beta R + 24 \alpha\alpha S + 24 \beta\beta R + 24 \beta\beta S + 24 \alpha\alpha R) / (24\text{nor } d\beta S + 24\text{nor } d\beta R + 24 \alpha\alpha S + 24 \beta\beta R + 24 \beta\beta S + 24 \alpha\alpha R + 27\text{nor } d\beta S + 27\text{nor } d\beta R + 27 \alpha\alpha S + 27 \beta\beta R + 27 \beta\beta S + 27 \alpha\alpha R)$$

Saturated Fraction GCMS SIR Ratio definitions

in Tables	Triterpanes	Steranes
Ratio 1	$27Tm/27Ts$	$27d\beta S/(27d\beta S+27\alpha\alpha R)$
Ratio 2	$27Tm/(27Tm+27Ts)$	$29\alpha\alpha S/(29\alpha\alpha S+29\alpha\alpha R)\%$
Ratio 3	$27Tm/(27Tm+30\alpha\beta+30\beta\alpha)$	$2*(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\alpha\alpha R+2*[29\beta\beta R+29\beta\beta S])\%$
Ratio 4	$29\alpha\beta/30\alpha\beta$	$(27d\beta S+27d\beta R+27d\alpha R+27d\alpha S)/(29d\beta S+29d\beta R+29d\alpha R+29d\alpha S)$
Ratio 5	$29\alpha\beta/(29\alpha\beta+30\alpha\beta)$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S)$
Ratio 6	$30d/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 7	$28\alpha\beta/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+28d\alpha S+28\alpha\alpha S+29d\alpha R+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 8	$28\alpha\beta/29\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 9	$28\alpha\beta/(28\alpha\beta+30\alpha\beta)$	$29\alpha\alpha S/29\alpha\alpha R$
Ratio 10	24/3 / $30\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/29\alpha\alpha R$
Ratio 11	$30\alpha\beta/(30\beta\alpha+30\alpha\beta)$	
Ratio 12	$(29\alpha\beta+29\beta\alpha)/(29\alpha\beta+29\beta\alpha+30\alpha\beta+30\beta\alpha)$	
Ratio 13	$(29\beta\alpha+30\beta\alpha)/(29\alpha\beta+30\alpha\beta)$	
Ratio 14	$32\alpha\beta S/(32\alpha\beta S+32\alpha\beta R)\%$	

Table 12a. C1-C2 naphthalenes peak heights. GC-MS m/z 142, 156 fragmentograms

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	2.6+2.7-		1.3+1.7-		2.3+1.4-		Sample number				
					2MN	1MN	2EN	1EN	DMN	DMN	1.6-DMN	DMN	1.5-DMN	1.2-DMN	
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	37133	57234	30745	23563	395801	925656	866957	510088	234793	301167	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	124931	152717	72747	42468	1067188	1880454	1440042	716484	305318	358453	X03/0029-1

Table 12b. C3-naphthalenes peak heights. GC-MS m/z 170 fragmentograms

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	1.3.7-	1.3.6-	1.3.5+1.4.6	2.3.6-	1.6.7+1.2.7	1.2.6-	1.2.4-	1.2.5-	Sample number
					TMN	TMN	TMN	TMN	TMN	TMN	TMN	TMN	
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	665129	1147642	1060621	958944	998800	1175683	166107	2356333	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	873396	1377324	1006580	1194284	890685	908364	136376	1102889	X03/0029-1

Table 12c. Phenanthrene and C1-Phenanthrenes peak heights. GC-MS m/z 178, 192 fragmentograms

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Sample number					
					P	3MP	2MP	9MP	1MP	
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	3554138	1291104	1433866	1818878	1945932	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	10732320	4558888	5456692	4645234	4288688	X03/0029-1

Table 12d. Dibenzothiophene and C1-dibenzothiophenes peak heights. GC-MS m/z 184, 198 fragmentograms

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Sample number				
					DBT	4 MDBT	2+3 MDBT	1 MDBT	
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	149964.1	80486.1	32758.4	27996.7	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	864164.2	465118.8	161367	66156.6	X03/0029-1

Table 12e Triaromatic steranes peak heights. GC-MS m/z 231 fragmentograms: TASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	a1	b1	c1	d1	e1	f1	g1	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	54301.9	37033.1	4564.6	10591.9	7223	4938.3	6620.7	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	21428.9	11176.5	942.4	1997.6	1625	946.9	1395.3	X03/0029-1

Table 12f. Monoaromatic steranes peak heights. GC-MS m/z 253 fragmentograms: MASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	6901	4013	10680	8273	20617	3471	16043	9062	1988	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	483	413	289	257	375	190	859	245	106	X03/0029-1

Table 12g. Triaromatic steranes m/z 231 peak height ratios: TASTRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	a1/(a1+g1)	b1/(b1+g1)	(a1+b1)/(a1+b1+c1+d1+e1+f1+g1)	a1/(a1+e1+f1+g1)	a1/(a1+d1)	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0.89	0.85	0.73	0.74	0.84	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	0.94	0.89	0.83	0.84	0.91	X03/0029-1

Table 12h. Monoaromatic steranes m/z 253 peak height ratios: MASTRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	A1/(A1+E1)	B1/(B1+E1)	A1/(A1+E1+G1)	(A1+B1)/(A1+B1+C1+D1+E1+F1+G1+H1+I1)	Sample number
NOCS 6706/6-1	3244	3244	swc	sandstone/sand	0.25	0.16	0.16	0.13	X03/0030-1
NOCS 6706/6-1	3282.75	3282.75	ccp	shale/claystone	0.56	0.52	0.28	0.28	X03/0029-1