

A total of 32 pressure tests were taken in 2 MDT runs (Nos. 1 – 6 in Run 3E and Nos. 7 – 32 in Run 1F). The following test results were obtained: 11 successful, 4 “not fully stable”, 11 aborted (tight, failed or unstable) and 6 tests supercharged aborted

Table 11: MDT pressures (all pressures are measured in bars, using quartz gauges)

Test No.	Depth m MD	Depth m TVDSS	Hydrostatic Pressure (bar)	Formation Pressure (bar)	Pore Pressure g/cc	Stab. Time (mins)	Temp (°C)	Mobility (cp)	Remarks
<b>1</b>	<b>3473</b>	<b>3252.9</b>	<b>554.811</b>	<b>500.727</b>	<b>1.57</b>	<b>5</b>	<b>117.7</b>	<b>1.34</b>	<b>Good</b>
2	3472	3252.3	554.624	-		(2)	117.7	-	Tight Aborted
3	3470	3251.0	554.305	-		(3)	117.6	-	Tight Aborted
4	3471	3251.6	554.219	(502.247)		(11)	117.7	0.1	Supercharged Aborted
5	3473	3252.5	554.356	(502.546)		(11)	117.9	0.08	Supercharged Aborted
6	3472.5	3279.1	554.342	(484.906)		(6)	118.0	0.06	Tight Aborted
7	3473	3252.9	557.408	(503.251)		(4)	108.0	0.25	Supercharged Aborted
<b>8</b>	<b>3515</b>	<b>3280.0</b>	<b>562.056</b>	<b>502.593</b>	<b>1.56</b>	<b>2</b>	<b>109.7</b>	<b>18.4</b>	<b>Excellent</b>
<b>9</b>	<b>3538.5</b>	<b>3295.5</b>	<b>564.353</b>	<b>505.012</b>	<b>1.56</b>	<b>3</b>	<b>112.4</b>	<b>0.6</b>	<b>Good</b>
10	3559	3309.0	566.622	(484.610)		(4)	112.5	0.1	Tight Aborted
11	3808.5	3491.3	596.935	568.501	(1.66)	(12)	121.1	0.1	Supercharged 2drawdowns
12	3811	3493.2	596.091	(570.416)	(1.67)	(15)	121.6	0.1	Y? Spchd? 1.665
<b>13</b>	<b>3836</b>	<b>3512.1</b>	<b>599.147</b>	<b>568.516</b>	<b>1.65</b>	<b>1</b>	<b>122.2</b>	<b>97.7</b>	<b>Excellent</b>
<b>14</b>	<b>3838</b>	<b>3513.6</b>	<b>599.366</b>	<b>568.653</b>	<b>1.65</b>	<b>2</b>	<b>122.7</b>	<b>80.8</b>	<b>Excellent</b>
<b>15</b>	<b>3843</b>	<b>3517.4</b>	<b>599.713</b>	<b>569.016</b>	<b>1.65</b>	<b>3</b>	<b>122.9</b>	<b>14.7</b>	<b>Good</b>
<b>16</b>	<b>3847</b>	<b>3520.4</b>	<b>600.101</b>	<b>569.699</b>	<b>1.65</b>	<b>12</b>	<b>123.1</b>	<b>0.5</b>	<b>Moderate</b>
<b>17</b>	<b>3904</b>	<b>3562.6</b>	<b>606.961</b>	<b>573.799</b>	<b>1.64</b>	<b>6</b>	<b>124.6</b>	<b>4.6</b>	<b>Moderate</b>
<b>18</b>	<b>3914</b>	<b>3570.0</b>	<b>608.223</b>	<b>574.494</b>	<b>1.64</b>	<b>5</b>	<b>124.7</b>	<b>14.9</b>	<b>Good</b>
19	3976.5	3615.6	615.690	(581.456)	(1.64)	(12)	125.9	0.1	Supercharged
20	3978.5	3617.0	615.880	(446.911)	-	(6)	126.0	0.1	Tight Aborted
21	4218	3789.9	646.835	(527.368)	-	(5)	130.8	0.0	Tight Aborted
22	4225	3795.0	647.357	(438.625)	-	(10)	132.4	0.4	Tight Aborted
23	4219	3790.6	646.030	(634.863)	(1.71)	(8)	131.3	1.2	Not fully stable (20cc)
24	4219	3790.6	646.310	(634.912)		(12)	131.7	0.1	Unstable Aborted
25	4219	3790.6	646.277	-		(5)	131.9	0.5	Failed
26	4224	3794.4	647.004	(635.041)		(3)	132.1	0.1	Not fully stable (3cc)
27	4248.5	3812.5	650.164	(637.505)		(15)	138.2	0.1	Not fully stable (5cc)
<b>28</b>	<b>4252</b>	<b>3815.1</b>	<b>650.770</b>	<b>636.682</b>	<b>1.70</b>	<b>5</b>	<b>138.3</b>	<b>0.4</b>	<b>Good (10cc)</b>
29	4285.5	3840.0	655.165	(639.661)		(12)	138.9	3.7	Not fully stable (20cc)
<b>30</b>	<b>4286.5</b>	<b>3840.8</b>	<b>655.367</b>	<b>639.400</b>		<b>10</b>	<b>134.0</b>	<b>6.2</b>	<b>Moderate (not fully stable)</b>
31	4299.5	3850.5	657.903	(446.412)		(3)	134.3	1.0	Tight Aborted
32	4297	3848.7	657.216	(480.675)		(5)	138.6	0.8	Tight Aborted –probe #2

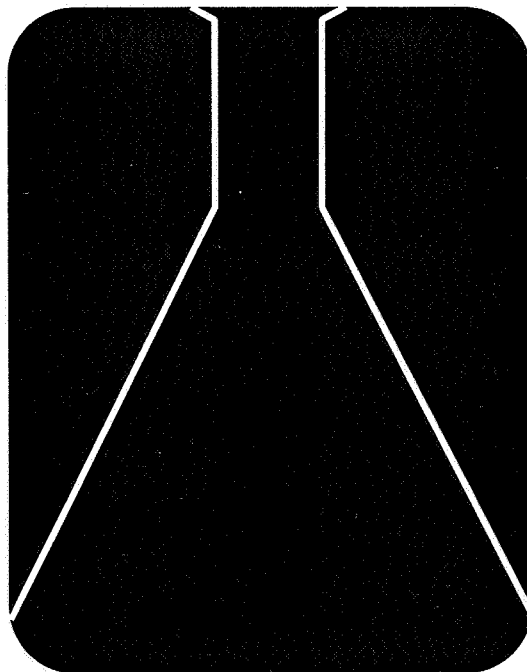
Tests in **bold** were successful. Figures (in brackets) are the values recorded when an unsuccessful or dubious test was aborted.

### 2.11.2. Formation Fluid Samples

No fluid samples were attempted.

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**Geochemical Report  
On  
Well NOCS 34/6-1S**



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## Chapter 1

# INTRODUCTION

### 1.1 General Well Information

The aim of the analytical program on well 34/6-1 S was to evaluate the source rock potential and maturity and also migrated hydrocarbons, if any, present in this well. Selected cuttings samples were analysed by various techniques including, TOC, Rock-Eval, GHM (thermal extraction-gas chromatograms of sandstones), visual kerogen composition and vitrinite reflectance. These samples covered the interval from 1350-4323 m.

An oil-based mud system (OBM - Versaport) was used in drilling the well. This caused considerable problems in the interpretation of the presence or absence of migrated hydrocarbons. Normal procedure for removal of the OBM, i.e. washing/solvent extraction would remove migrated hydrocarbons as well. Thermal extraction-gas chromatography was performed to determine whether migrated hydrocarbons were present or not. Before the source rock analyses were performed (i.e. TOC and Rock-Eval) the samples were washed and then mini-extracted (rapid Soxtec extraction to remove OBM).

All depths quoted in this report are driller's depths in metres measured relative to the rotary table (m MDRT) unless otherwise stated. An average difference of +5m exists between driller's and logger's depths.

Table 1 Analytical Program for NOCS well 34/6-1S

depth RKB depth	Wash & describe	Mini extract NOT FOR VRIIIII OR VK	TOC	Rock-Eval	Visual Kerogen	Vitrinite Reflectance	GHM thermal extraction GC
1350	x						
1500	x					x	
1730	x	x	x	x	x	x	
2060	x	x	x	x	x	x	
2150	x	x	x	x	x	x	
2480	x	x	x	x	x	x	
2680	x	x	x	x	x	x	
2880	x	x	x	x	x	x	
3120	x	x	x	x	x	x	
3250	x	x	x	x	x	x	
3280	x	x	x	x	x	x	
3381	x	x	x	x	x	x	
3408	x	x	x	x	x	x	
3417	x	x	x	x	x	x	
3423	x	x	x	x	x	x	
3447	x	x	x	x	x	x	
3450							x
3470							x
3525							x
3600	x	x	x	x	x	x	
3621	x	x	x	x	x	x	
3684	x	x	x	x	x	x	
3750	x	x	x	x	x	x	
3792	x	x	x	x	x	x	

§ sat and aro fractions only  
Table 1 analytical program3461s.xls

Table 1 Analytical Program for NOCS well 34/6-1S

depth RKB drillers depth	Wash & describe	Mini extract NOT FOR VRIIIII OR VK	TOC	Rock-Eval	Visual Kerogen	Vitrinite Reflectance	GHM thermal extraction GC
3807							x
3834							x
3867	x	x	x	x	x	x	
3894							x
3933	x	x	x	x	x	x	
3972							x
4032	x	x	x	x	x	x	
4122	x	x	x	x	x	x	
4209	x	x	x	x	x	x	
4218							x
4251	x	x	x	x	x	x	
4251	x	x	x	x	x		
4269	x	x	x	x	x	x	
4281							x
4323	x	x	x	x	x	x	
	30	28	28	28	28	28	9

Table 2 : Lithology description for well NOCS 34/6-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1350.00						0001
				95 Cont : cem		0001-1L
				5 Sh/Clst: pl brn gy, slt		0001-2L
1500.00						0002
				60 Sh/Clst: w to lt gy		0002-1L
	1.37			35 Sh/Clst: pl brn gy to brn gy, mic		0002-2L
				5 Sh/Clst: lt gn gy, glauc		0002-3L
1730.00						0003
	0.45	100		Sh/Clst: pl ol		0003-1L
2060.00						0004
	0.55			90 Sh/Clst: lt gy to m gy, slt, s		0004-1L
				10 Sh/Clst: lt brn gy to brn gy, s, mic		0004-2L
				tr S/Sst : lt brn gy, argill, mic		0004-3L
2150.00						0005
	0.64			90 Sh/Clst: lt gy to m gy, slt, s		0005-1L
				10 Sh/Clst: lt brn gy to brn gy, s, mic		0005-2L
				tr S/Sst : lt brn gy, argill, mic		0005-3L
				tr Ca : lt brn gy to w		0005-4L
2480.00						0006
	0.52			85 Sh/Clst: lt gy to m gy, slt, s		0006-1L
				10 Cont : dd		0006-4L
				5 Sh/Clst: lt brn gy to brn gy, s, mic		0006-2L
				tr Ca : lt brn gy to w		0006-3L
2680.00						0007
	0.72			90 Sh/Clst: lt gy to m gy		0007-1L
				10 Ca : lt brn gy		0007-2L
				tr Cont : dd		0007-3L

Table 2 : Lithology description for well NOCS 34/6-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2880.00						0008
	0.64	95	Sh/Clst:	lt gy to m drk gy, lam		0008-1L
		5	Ca	: lt brn gy		0008-2L
			tr Cont	: dd		0008-3L
3120.00						0009
	0.56	95	Sh/Clst:	lt gy to m drk gy, lt gn gy, lam		0009-1L
		5	Ca	: lt brn gy		0009-2L
			tr Cont	: dd		0009-3L
3250.00						0010
	0.50	95	Sh/Clst:	lt gy to m drk gy, lt gn gy, lam		0010-1L
		5	Ca	: lt brn gy.		0010-2L
			tr Cont	: dd		0010-3L
			tr S/Sst	: lt gn gy, glauc		0010-4L
3280.00						0011
	0.79	95	Sh/Clst:	lt gy to drk gy, lt gn gy, lam		0011-1L
		5	Ca	: lt brn gy		0011-2L
			tr Cont	: dd		0011-3L
			tr S/Sst	: lt gn gy, glauc		0011-4L
3381.00						0012
	4.09	40	Sh/Clst:	lt gy to drk gy, lt gn gy, lam		0012-1L
		30	Sh/Clst:	blk		0012-2L
		30	Sh/Clst:	dsk red		0012-3L
			tr Ca	: dsk red		0012-4L
3408.00						0013
	5.05	40	Sh/Clst:	lt gy to drk gy, lt gn gy, lam		0013-1L
		40	Sh/Clst:	brn blk, carb		0013-2L
		20	Sh/Clst:	dsk red		0013-3L
			tr Ca	: dsk red		0013-4L

Table 2 : Lithology description for well NOCS 34/6-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
3417.00						0014	
	4.08	70	Sh/Clst: brn blk, carb			0014-2L	
		15	Sh/Clst: lt gy to drk gy, lt gn gy, lam			0014-1L	
		15	Sh/Clst: dsk red			0014-3L	
		tr Ca	: dsk red			0014-4L	
3423.00						0015	
	4.38	80	Sh/Clst: drk brn gy to brn blk, carb, slt, mic			0015-1L	
		20	Sh/Clst: lt gy to m gy, lt gn gy, dsk red			0015-2L	
3447.00						0016	
	2.91	95	Sh/Clst: drk brn gy to brn blk, carb, slt, mic			0016-1L	
		5	Cont : prp			0016-2L	
3450.00						0017	
		95	Sh/Clst: drk brn gy to brn blk, carb, slt, mic			0017-1L	
		5	S/Sst : lt brn gy, slt, s, argill			0017-2L	
		tr Cont	: prp			0017-3L	
3468.00						0018	
		95	Sh/Clst: drk brn gy to brn blk, carb, slt, mic			0018-1L	
		5	S/Sst : lt brn gy, slt, s, argill			0018-2L	
		tr Cont	: prp			0018-3L	
3525.00						0019	
		80	Kaolin : w, s, mic			0019-1L	
		15	S/Sst : w, calc, mic, kln			0019-2L	
		5	Sh/Clst: drk brn gy, slt, s, mic			0019-3L	



Table 2 : Lithology description for well NOCS 34/6-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3600.00						0020
	3.43	80	Sh/Clst:	gy brn to drk brn gy, slt		0020-6L
		20	S/Sst	: w, calc, mic, kln		0020-7L
3621.00						0021
	2.01	80	Sh/Clst:	brn gy to drk brn gy, slt		0021-1L
		20	S/Sst	: w, calc, mic, kln		0021-2L
3684.00						0022
	1.54	85	Sh/Clst:	brn gy to drk brn gy, slt, mic		0022-1L
		10	S/Sst	: w, calc, mic, kln		0022-2L
		5	Cont	: dd		0022-3L
3750.00						0023
	1.83	90	Sh/Clst:	brn gy to drk brn gy, slt, mic		0023-1L
		10	Ca	: w to lt brn gy		0023-2L
		tr	Cont	: dd		0023-3L
3792.00						0024
	1.52	90	Sh/Clst:	brn gy, slt, mic		0024-1L
		10	S/Sst	: w to lt brn gy		0024-2L
		tr	Cont	: dd		0024-3L
3807.00						0025
		70	Kaolin	: w, s, mic		0025-1L
		20	Sh/Clst:	brn gy, slt		0025-3L
		10	S/Sst	: w, calc, kln		0025-2L
3834.00						0026
		70	Kaolin	: w, s, mic		0026-1L
		20	Sh/Clst:	brn gy, slt		0026-3L
		10	S/Sst	: w, calc, kln		0026-2L

Table 2 : Lithology description for well NOCS 34/6-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3867.00						0027
	1.83			70 Kaolin : w, s, mic 20 Sh/Clst: brn gy, slt 10 S/Sst : w, calc, kln		0027-1L 0027-3L 0027-2L
3894.00						0028
				75 Kaolin : w, s, mic 15 S/Sst : w, calc, mic, kln 10 Sh/Clst: brn gy, slt, mic		0028-1L 0028-2L 0028-3L
3933.00						0029
	1.93			70 Sh/Clst: brn gy, slt, mic 25 Kaolin : w, s, mic 5 S/Sst : w, calc, mic, kln		0029-3L 0029-1L 0029-2L
3972.00						0030
				50 Sh/Clst: brn gy, slt, mic 35 Kaolin : w, s, mic 15 S/Sst : w, calc, mic, lam, kln		0030-3L 0030-1L 0030-2L
4032.00						0031
	0.96			80 Sh/Clst: brn gy, mic 15 Kaolin : w, s, mic 5 S/Sst : w, calc, mic, lam, kln		0031-3L 0031-1L 0031-2L
4122.00						0032
	1.12			80 Sh/Clst: brn gy, slt 20 S/Sst : w, mic, kln		0032-1L 0032-2L
4209.00						0033
	22.40			40 Sh/Clst: drk gy to blk, carb 40 Sh/Clst: brn gy, mic 20 S/Sst : w, mic, kln		0033-1L 0033-2L 0033-3L

Table 2 : Lithology description for well NOCS 34/6-1S

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
4218.00						0034
				80 S/Sst : w, mic, kln		0034-3L
				10 Sh/Clst: drk gy to blk, carb		0034-1L
				10 Sh/Clst: brn gy, mic		0034-2L
4251.00						0035
				50 S/Sst : w, mic, kln		0035-3L
				30 Sh/Clst: drk gy to blk, carb		0035-1L
	6.36			15 Sh/Clst: brn gy, mic		0035-2L
	30.50			5 Coal : blk		0035-4L
4269.00						0036
				50 S/Sst : w, mic, kln		0036-3L
				30 Sh/Clst: drk gy to blk, carb		0036-1L
				15 Sh/Clst: brn gy, mic		0036-2L
	3.75			5 Coal : blk		0036-4L
4281.00						0037
				50 S/Sst : w, mic, kln		0037-3L
				35 Sh/Clst: drk gy to blk, carb		0037-1L
				15 Sh/Clst: brn gy, mic		0037-2L
4323.00						0038
				50 S/Sst : w, mic, kln		0038-3L
	1.10			35 Sh/Clst: drk gy to blk, carb		0038-1L
				15 Sh/Clst: brn gy, mic		0038-2L

Table 3: Rock-Eval Data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	S1	S2	S3	TOC	Tmax	S2/S3	HI	OI	PP	PI	Sample number
1490	1500	cut	shale/claystone	35	0,78	3,99	1,12	1,37	347	3,56	291	82	4,8	0,16	W42/0002-2
1720	1730	cut	shale/claystone	100	0,24	0,78	2,05	0,45	334	0,38	173	456	1	0,24	W42/0003-1
2050	2060	cut	shale/claystone	90	0,32	1,27	1,91	0,55	342	0,66	231	347	1,6	0,2	W42/0004-1
2140	2150	cut	shale/claystone	90	0,51	2,00	2,78	0,64	346	0,72	313	434	2,5	0,2	W42/0005-1
2470	2480	cut	shale/claystone	85	0,07	0,33	0,33	0,52	423	1	63	63	0,4	0,17	W42/0006-1
2670	2680	cut	shale/claystone	90	0,10	0,76	0,29	0,72	431	2,62	106	40	0,9	0,12	W42/0007-1
2870	2880	cut	shale/claystone	95	0,09	0,29	0,14	0,64	335	2,07	45	22	0,4	0,24	W42/0008-1
3110	3120	cut	shale/claystone	95	0,04	0,31	0,06	0,56	427	5,17	55	11	0,3	0,11	W42/0009-1
3240	3250	cut	shale/claystone	95	0,07	0,30	0,02	0,50	339	15	60	4	0,4	0,19	W42/0010-1
3270	3280	cut	shale/claystone	95	0,04	0,57	0,30	0,79	430	1,9	72	38	0,6	0,07	W42/0011-1
3378	3381	cut	shale/claystone	30	0,18	9,94	0,32	4,09	428	31,06	243	8	10,1	0,02	W42/0012-2
3405	3408	cut	shale/claystone	40	0,38	19,15	0,35	5,05	430	54,71	379	7	19,5	0,02	W42/0013-2
3414	3417	cut	shale/claystone	70	0,25	12,78	0,49	4,08	425	26,08	313	12	13	0,02	W42/0014-2
3420	3423	cut	shale/claystone	80	0,23	7,72	1,32	4,38	426	5,85	176	30	7,9	0,03	W42/0015-1
3444	3447	cut	shale/claystone	95	0,13	2,29	2,16	2,91	432	1,06	79	74	2,4	0,05	W42/0016-1
3597	3600	cut	shale/claystone	80	0,26	5,79	0,78	3,43	443	7,42	169	23	6,1	0,04	W42/0020-6
3618	3621	cut	shale/claystone	80	0,15	4,99	0,59	2,01	445	8,46	248	29	5,1	0,03	W42/0021-1
3681	3684	cut	shale/claystone	85	0,14	1,63	0,33	1,54	434	4,94	106	21	1,8	0,08	W42/0022-1
3747	3750	cut	shale/claystone	90	0,10	2,30	0,56	1,83	436	4,11	126	31	2,4	0,04	W42/0023-1
3789	3792	cut	shale/claystone	90	0,09	4,52	0,32	1,52	439	14,12	297	21	4,6	0,02	W42/0024-1
3864	3867	cut	shale/claystone	20	0,25	5,05	0,39	1,83	439	12,95	276	21	5,3	0,05	W42/0027-3
3930	3933	cut	shale/claystone	70	0,12	3,51	0,70	1,93	439	5,01	182	36	3,6	0,03	W42/0029-3
4029	4032	cut	shale/claystone	80	0,10	2,25	0,56	0,96	438	4,02	234	58	2,3	0,04	W42/0031-3
4119	4122	cut	shale/claystone	80	0,15	2,35	1,18	1,12	435	1,99	210	105	2,5	0,06	W42/0032-1
4206	4209	cut	shale/claystone	40	1,58	66,71	0,19	22,40	452	351,1	298	1	68,3	0,02	W42/0033-1
4248	4251	cut	shale/claystone	15	0,37	11,61	1,57	6,36	438	7,39	183	25	12	0,03	W42/0035-2
4248	4251	cut	coal	5	2,76	93,77	0,40	30,50	442	234,4	307	1	96,5	0,03	W42/0035-4
4266	4269	cut	shale/claystone	30	0,18	7,11	0,55	3,75	444	12,93	190	15	7,3	0,02	W42/0036-1
4320	4323	cut	shale/claystone	35	0,30	1,82	1,14	1,10	435	1,6	165	104	2,1	0,14	W42/0038-1

Table 4a: Thermal Maturity data from Vitrinite Reflectance Microscopy for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	%Ro	No. readings	Std.dev.	Fluor.	Sample number
1490	1500	cut	0,29	20	0,05	4	W42/0002-
1720	1730	cut	NDP	0	0		W42/0003-
2050	2060	cut	NDP	0	0		W42/0004-
2140	2150	cut	0,37	11	0,04	4	W42/0005-
2470	2480	cut	0,43	4	0,03	5	W42/0006-
2670	2680	cut	0,46	6	0,09	4	W42/0007-
2870	2880	cut	0,49	3	0,02	4	W42/0008-
3110	3120	cut	0,43	3	0,06	4	W42/0009-
3240	3250	cut	0,49	7	0,03	4	W42/0010-
3270	3280	cut	0,5	8	0,05	4	W42/0011-
3378	3381	cut	0,52	10	0,07	4	W42/0012-
3405	3408	cut	0,49	20	0,06	4	W42/0013-
3414	3417	cut	0,5	20	0,07	4	W42/0014-
3420	3423	cut	0,54	20	0,06	4	W42/0015-
3444	3447	cut	0,53	20	0,06	6	W42/0016-
3597	3600	cut	0,49	20	0,06	6	W42/0020-
3618	3621	cut	0,57	20	0,06	6	W42/0021-
3681	3684	cut	0,56	20	0,07	5	W42/0022-
3747	3750	cut	0,54	20	0,08	4	W42/0023-
3789	3792	cut	0,52	7	0,09	5	W42/0024-
3864	3867	cut	0,68	2	0,02		W42/0027-
3930	3933	cut	0,53	20	0,07	5	W42/0029-
4029	4032	cut	0,53	20	0,06	4	W42/0031-
4119	4122	cut	0,55	20	0,06	6	W42/0032-
4206	4209	cut	0,88	20	0,32		W42/0033-
4248	4251	cut	0,57	20	0,06	5	W42/0035-
4266	4269	cut	0,63	20	0,08	6	W42/0036-
4320	4323	cut	0,61	8	0,1		W42/0038-

Table 4b Vitrinite Reflectance Microscopy for NOCS Well 34/6-1S: *Maturity Confidence Levels and Comments*

Upper Depth (m)	Lower Depth (m)	Vitrinite Reflectance			UV Fluorescence			Comments
		R.o.Ave	No.	Conf.	Form	Content	Colour	
1490	1500	0,29	20	D	Spores	Trace	Y/O	Marl. Forams. & shell debris
1720	1730	N.D.P.	-	-	Spores	Trace	Y/O	Marl. Haematite specks
2050	2060	0,27	1	E	-	-	-	Shale. Haematite specks & light staining
2140	2150	0,37	11	C	Algae	Trace	Y/O	Shale. Iron oxide traces
					Spores	Trace	Y/O	
2470	2480	0,43	4	D	Resin	Trace	Y/O	Shale, calcareous. Phytoclasts degraded
					Spores	Trace	Y/O-LO	
2670	2680	0,46	6	D	Algae	Trace	Y	Calcareous shale. Iron oxides. Phytoclasts degraded
					Spores	Low	Y/O	
2870	2880	0,49	3	E	Spores	Trace	Y/O	Shale. Phytoclasts as degraded specks
3110	3120	0,43	3	E	Algae	Trace	Y	Shale. Tr. glauconite. Phytoclasts degraded
					Spores	Trace	Y/O	
3240	3250	0,49	7	E	Spores	Trace	Y/O	Shale. Tr.glauconite. Phytoclasts small & degraded
					Algae	Trace	Y	
3270	3280	0,50	8	D	Spores	Low	Y/O	Shale. Tr.glauconite. Phytoclasts degraded
3378	3381	0,52	10	D	Algae	Trace	Y	Shale. Iron oxide staining. Some blackening of amorphinite - sample roasted?
					Spores	Low	Y/O	
3405	3408	0,49	20	D	Algae	Trace	Y-Y/O	60%shale, 40% haematitic shale, tr.white marl. Shale pyritic.
					Spores	Trace	Y/O	Phytoclasts restricted to non-haematitic shale
3414	3417	0,50	20	D	Spores	Moderate	Y/O	Pyritic shale. Vitrinite mostly H/C impregnated
3420	3423	0,51	20	D	Spores	Low	Y/O	Shale,pyritic. Phytoclasts rather degraded
3444	3447	0,53	20	D	Algae	Trace	Y-Y/O	Pyritic shale. Phytoclasts degraded
					Spores	Trace	L-MO	
3597	3600	0,49	20	C	Algae	Low	Y/O	80%shale, 20%marl. Phytoclasts degraded
					Spores	Low	L-MO	
3618	3621	0,57	20	D	Algal fragments	Moderate	Y/O	Calcareous shale, pyritic. Phytoclasts degraded
					Spores	Trace	MO	
3681	3684	0,56	20	D	Algae	Trace	Y	Calcareous shale, pyritic. Phytoclasts degraded
					Spores	Trace	Y/O-LO	
3747	3750	0,54	20	D	Algae	Trace	GY	100%shale, calcareous, silty. tr.rock flour. Some blackening of amorphinite. Phytoclasts degraded
					Spores	Moderate	Y/O	
3789	3792	0,52	7	E	Algae	Trace	Y-Y/O	Shale, calcareous, silty.
					Spores	Moderate	Y/O-LO	
3864	3867	0,68	2	E	-	-	-	Calcareous shale
3930	3933	0,53	20	D	Spores	Low	Y/O-LO	Shale, silty, calcareous. Some H/C impregnation of vitrinite

Table 4b Vitrinite Reflectance Microscopy for NOCS Well 34/6-1S: *Maturity Confidence Levels and Comments*

Upper Depth (m)	Lower Depth (m)	Vitrinite Reflectance			UV Fluorescence			Comments
		R.o.Avg	No.	Conf.	Form	Content	Colour	
4029	4032	0,54	20	D	Spores	Trace	Y/O	Shale
4119	4122	0,55	20	D	Carbonate Spores	Low Trace	Y/O MO	Shale, calcareous
4206	4209	0,63 1,2	11 9	E	-	-	-	Mixed shale lithologies. Some blackening of amorphinite
4248	4251	0,57	20	D	Spores	Trace	LO	Shale. Very variable r.o. Phytoclasts degraded
4266	4269	0,63	20	D	Spores	Trace	L-MO	Shale. Phytoclasts brecciated & degraded - oxidised?
4320	4323	0,61	8	E	Algae	Trace	Y-Y/O	100% shale, marly; tr. rock flour. Phytoclasts degraded

Table 4c Vitrinite Reflectance Microscopy for NOCS Well 34/6-1S: Petrography

Upper Depth (m)	Lower Depth (m)	Amorphinite	Bitumen	Phytoclasts							Comments
				Content	Composition (%)				Vitr.	Inert./ Reworked	
					Liptinite						
					Algae	Spores	Cuticle	Resin			
1490	1500	Low-Mod.	-	Low	-	Trace	-	-	70	30	Foram. & shell debris
1720	1730	Very Low	-	Vrt.Barren	-	Trace	-	-	-	-	
2050	2060	Var.-	-	Trace	-	-	-	-	One	Trace	Forams.
2140	2150	Low-Mod.	-	Low-Mod.	Trace	Trace	-	-	Trace	100	-
2470	2480	Moderate	-	Low-Mod.	-	Trace	-	Trace	Four	100	Phytoclasts degraded
2670	2680	Low+Mod.	-	Moderate	Trace	10	-	-	Trace	90	Phytoclasts degraded
2870	2880	Moderate	-	Moderate	-	Trace	-	-	Three	100	Phyt. as degraded specks
3110	3120	Low+Mod.	-	Low-Mod.	Trace	Trace	-	-	Trace	100	Phytoclasts degraded
3240	3250	Low-Mod..	-	Low-Mod.	Trace	Trace	-	-	Trace	100	Phyt. small & degraded
3270	3280	Low+Mod.	-	Low-Mod.	-	10	-	-	Trace	90	Phytoclasts degraded
3378	3381	Mod.-Rich	-	Moderate	Trace	10	-	-	Trace	90	Some blackening of amorpl
3405	3408	Mod.-Rich in shale	-	Low-Mod.	Trace	Trace	-	-	20	80	Phytoclasts restricted to non-haematitic shale
3414	3417	Mod.-Rich	-	Low-Mod.	-	20	-	-	10	70	Vitrinite mostly H/C impregnated
3420	3423	Rich	-	Mod.-Rich	-	10	-	-	Trace	90	Phytoclasts rather degraded
3444	3447	Rich	-	Mod.-Rich	Trace	Trace	-	-	Trace	100	Phytoclasts degraded
3597	3600	Mod.+Rich	-	Moderate	10	10	-	-	20	60	Phytoclasts degraded
3618	3621	Mod.-Rich	-	Low-Mod.	20	Trace	-	-	20	60	Phytoclasts degraded. Algae as fragments
3681	3684	Mod.-Rich	-	Moderate	Trace	Trace	-	-	10	90	Phytoclasts degraded
3747	3750	Moderate	-	Low-Mod.	Trace	20	-	-	10	70	Phytoclasts degraded. Some blackening of amorpl
3789	3792	Moderate	-	Very Low	Trace	20	-	-	Trace	80	-
3864	3867	Moderate	-	Vrt.Barren	-	-	-	-	Two	Trace	-
3930	3933	Mod.+Rich	-	Low-Mod.	-	10	-	-	20	70	Some H/C impregnation of vitrinite
4029	4032	Moderate	-	Low-Mod.	-	Trace	-	-	10	90	-
4119	4122	Moderate	-	Very Low	-	Trace	-	-	10	90	Y/O fluorescence from cart



Table 4c Vitrinite Reflectance Microscopy for NOCS Well 34/6-1S: Petrography

Upper Depth (m)	Lower Depth (m)	Amorphinite	Bitumen	Phytoclasts							Comments
				Content	Composition (%)				Vitr.	Inert./ Reworked	
					Algae	Spores	Cuticle	Resin			
4206	4209	Var.- Low-Rich	-	Mod.-Rich	-	-	-	-	Trace	100	Some blackening of amorph
4248	4251	Mod.+Rich	-	Moderate	-	Trace	-	-	30	70	Phytoclasts degraded
4266	4269	Var.- Mod.-Rich	-	Mod.-Rich	-	Trace	-	-	70	30	Phytoclasts brecciated & degraded ( oxidised?)
4320	4323	Moderate	-	Low-Mod.	Trace	-	-	-	10	90	Phytoclasts degraded

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
1490	1500	cut	shale/claystone	35	0,2	W42/0002-
1490	1500	cut	shale/claystone	35	0,28	W42/0002-
1490	1500	cut	shale/claystone	35	0,37	W42/0002-
1490	1500	cut	shale/claystone	35	0,38	W42/0002-
1490	1500	cut	shale/claystone	35	0,21	W42/0002-
1490	1500	cut	shale/claystone	35	0,35	W42/0002-
1490	1500	cut	shale/claystone	35	0,32	W42/0002-
1490	1500	cut	shale/claystone	35	0,25	W42/0002-
1490	1500	cut	shale/claystone	35	0,32	W42/0002-
1490	1500	cut	shale/claystone	35	0,25	W42/0002-
1490	1500	cut	shale/claystone	35	0,21	W42/0002-
1490	1500	cut	shale/claystone	35	0,3	W42/0002-
1490	1500	cut	shale/claystone	35	0,21	W42/0002-
1490	1500	cut	shale/claystone	35	0,32	W42/0002-
1490	1500	cut	shale/claystone	35	0,32	W42/0002-
1490	1500	cut	shale/claystone	35	0,27	W42/0002-
1490	1500	cut	shale/claystone	35	0,33	W42/0002-
1490	1500	cut	shale/claystone	35	0,33	W42/0002-
1490	1500	cut	shale/claystone	35	0,26	W42/0002-
1490	1500	cut	shale/claystone	35	0,27	W42/0002-
2140	2150	cut	shale/claystone	90	0,3	W42/0005-
2140	2150	cut	shale/claystone	90	0,36	W42/0005-
2140	2150	cut	shale/claystone	90	0,42	W42/0005-
2140	2150	cut	shale/claystone	90	0,37	W42/0005-
2140	2150	cut	shale/claystone	90	0,37	W42/0005-
2140	2150	cut	shale/claystone	90	0,34	W42/0005-
2140	2150	cut	shale/claystone	90	0,36	W42/0005-
2140	2150	cut	shale/claystone	90	0,37	W42/0005-
2140	2150	cut	shale/claystone	90	0,34	W42/0005-
2140	2150	cut	shale/claystone	90	0,44	W42/0005-
2140	2150	cut	shale/claystone	90	0,37	W42/0005-
2470	2480	cut	shale/claystone	85	0,42	W42/0006-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
2470	2480	cut	shale/claystone	85	0,4	W42/0006-
2470	2480	cut	shale/claystone	85	0,43	W42/0006-
2470	2480	cut	shale/claystone	85	0,46	W42/0006-
2670	2680	cut	shale/claystone	90	0,58	W42/0007-
2670	2680	cut	shale/claystone	90	0,38	W42/0007-
2670	2680	cut	shale/claystone	90	0,36	W42/0007-
2670	2680	cut	shale/claystone	90	0,51	W42/0007-
2670	2680	cut	shale/claystone	90	0,53	W42/0007-
2670	2680	cut	shale/claystone	90	0,41	W42/0007-
2870	2880	cut	shale/claystone	95	0,47	W42/0008-
2870	2880	cut	shale/claystone	95	0,51	W42/0008-
2870	2880	cut	shale/claystone	95	0,49	W42/0008-
3110	3120	cut	shale/claystone	95	0,37	W42/0009-
3110	3120	cut	shale/claystone	95	0,49	W42/0009-
3110	3120	cut	shale/claystone	95	0,43	W42/0009-
3240	3250	cut	shale/claystone	95	0,47	W42/0010-
3240	3250	cut	shale/claystone	95	0,48	W42/0010-
3240	3250	cut	shale/claystone	95	0,48	W42/0010-
3240	3250	cut	shale/claystone	95	0,53	W42/0010-
3240	3250	cut	shale/claystone	95	0,47	W42/0010-
3240	3250	cut	shale/claystone	95	0,48	W42/0010-
3240	3250	cut	shale/claystone	95	0,53	W42/0010-
3270	3280	cut	shale/claystone	95	0,59	W42/0011-
3270	3280	cut	shale/claystone	95	0,52	W42/0011-
3270	3280	cut	shale/claystone	95	0,42	W42/0011-
3270	3280	cut	shale/claystone	95	0,52	W42/0011-
3270	3280	cut	shale/claystone	95	0,55	W42/0011-
3270	3280	cut	shale/claystone	95	0,48	W42/0011-
3270	3280	cut	shale/claystone	95	0,46	W42/0011-
3270	3280	cut	shale/claystone	95	0,47	W42/0011-
3378	3381	cut	shale/claystone	30	0,64	W42/0012-
3378	3381	cut	shale/claystone	30	0,52	W42/0012-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
3378	3381	cut	shale/claystone	30	0,45	W42/0012-
3378	3381	cut	shale/claystone	30	0,49	W42/0012-
3378	3381	cut	shale/claystone	30	0,46	W42/0012-
3378	3381	cut	shale/claystone	30	0,44	W42/0012-
3378	3381	cut	shale/claystone	30	0,54	W42/0012-
3378	3381	cut	shale/claystone	30	0,6	W42/0012-
3378	3381	cut	shale/claystone	30	0,59	W42/0012-
3378	3381	cut	shale/claystone	30	0,47	W42/0012-
3405	3408	cut	shale/claystone	40	0,43	W42/0013-
3405	3408	cut	shale/claystone	40	0,45	W42/0013-
3405	3408	cut	shale/claystone	40	0,4	W42/0013-
3405	3408	cut	shale/claystone	40	0,51	W42/0013-
3405	3408	cut	shale/claystone	40	0,54	W42/0013-
3405	3408	cut	shale/claystone	40	0,62	W42/0013-
3405	3408	cut	shale/claystone	40	0,57	W42/0013-
3405	3408	cut	shale/claystone	40	0,53	W42/0013-
3405	3408	cut	shale/claystone	40	0,59	W42/0013-
3405	3408	cut	shale/claystone	40	0,45	W42/0013-
3405	3408	cut	shale/claystone	40	0,49	W42/0013-
3405	3408	cut	shale/claystone	40	0,43	W42/0013-
3405	3408	cut	shale/claystone	40	0,46	W42/0013-
3405	3408	cut	shale/claystone	40	0,57	W42/0013-
3405	3408	cut	shale/claystone	40	0,43	W42/0013-
3405	3408	cut	shale/claystone	40	0,45	W42/0013-
3405	3408	cut	shale/claystone	40	0,53	W42/0013-
3405	3408	cut	shale/claystone	40	0,47	W42/0013-
3405	3408	cut	shale/claystone	40	0,47	W42/0013-
3405	3408	cut	shale/claystone	40	0,45	W42/0013-
3414	3417	cut	shale/claystone	70	0,37	W42/0014-
3414	3417	cut	shale/claystone	70	0,51	W42/0014-
3414	3417	cut	shale/claystone	70	0,36	W42/0014-
3414	3417	cut	shale/claystone	70	0,46	W42/0014-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
3414	3417	cut	shale/claystone	70	0,54	W42/0014-
3414	3417	cut	shale/claystone	70	0,49	W42/0014-
3414	3417	cut	shale/claystone	70	0,58	W42/0014-
3414	3417	cut	shale/claystone	70	0,53	W42/0014-
3414	3417	cut	shale/claystone	70	0,42	W42/0014-
3414	3417	cut	shale/claystone	70	0,48	W42/0014-
3414	3417	cut	shale/claystone	70	0,45	W42/0014-
3414	3417	cut	shale/claystone	70	0,46	W42/0014-
3414	3417	cut	shale/claystone	70	0,63	W42/0014-
3414	3417	cut	shale/claystone	70	0,52	W42/0014-
3414	3417	cut	shale/claystone	70	0,59	W42/0014-
3414	3417	cut	shale/claystone	70	0,52	W42/0014-
3414	3417	cut	shale/claystone	70	0,54	W42/0014-
3414	3417	cut	shale/claystone	70	0,61	W42/0014-
3414	3417	cut	shale/claystone	70	0,49	W42/0014-
3414	3417	cut	shale/claystone	70	0,54	W42/0014-
3420	3423	cut	shale/claystone	80	0,52	W42/0015-
3420	3423	cut	shale/claystone	80	0,49	W42/0015-
3420	3423	cut	shale/claystone	80	0,51	W42/0015-
3420	3423	cut	shale/claystone	80	0,47	W42/0015-
3420	3423	cut	shale/claystone	80	0,48	W42/0015-
3420	3423	cut	shale/claystone	80	0,58	W42/0015-
3420	3423	cut	shale/claystone	80	0,45	W42/0015-
3420	3423	cut	shale/claystone	80	0,63	W42/0015-
3420	3423	cut	shale/claystone	80	0,54	W42/0015-
3420	3423	cut	shale/claystone	80	0,49	W42/0015-
3420	3423	cut	shale/claystone	80	0,57	W42/0015-
3420	3423	cut	shale/claystone	80	0,64	W42/0015-
3420	3423	cut	shale/claystone	80	0,54	W42/0015-
3420	3423	cut	shale/claystone	80	0,59	W42/0015-
3420	3423	cut	shale/claystone	80	0,6	W42/0015-
3420	3423	cut	shale/claystone	80	0,58	W42/0015-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
3420	3423	cut	shale/claystone	80	0,47	W42/0015-
3420	3423	cut	shale/claystone	80	0,48	W42/0015-
3420	3423	cut	shale/claystone	80	0,5	W42/0015-
3420	3423	cut	shale/claystone	80	0,66	W42/0015-
3444	3447	cut	shale/claystone	95	0,56	W42/0016-
3444	3447	cut	shale/claystone	95	0,46	W42/0016-
3444	3447	cut	shale/claystone	95	0,47	W42/0016-
3444	3447	cut	shale/claystone	95	0,51	W42/0016-
3444	3447	cut	shale/claystone	95	0,54	W42/0016-
3444	3447	cut	shale/claystone	95	0,46	W42/0016-
3444	3447	cut	shale/claystone	95	0,51	W42/0016-
3444	3447	cut	shale/claystone	95	0,52	W42/0016-
3444	3447	cut	shale/claystone	95	0,48	W42/0016-
3444	3447	cut	shale/claystone	95	0,45	W42/0016-
3444	3447	cut	shale/claystone	95	0,54	W42/0016-
3444	3447	cut	shale/claystone	95	0,51	W42/0016-
3444	3447	cut	shale/claystone	95	0,58	W42/0016-
3444	3447	cut	shale/claystone	95	0,54	W42/0016-
3444	3447	cut	shale/claystone	95	0,51	W42/0016-
3444	3447	cut	shale/claystone	95	0,53	W42/0016-
3444	3447	cut	shale/claystone	95	0,58	W42/0016-
3444	3447	cut	shale/claystone	95	0,68	W42/0016-
3444	3447	cut	shale/claystone	95	0,52	W42/0016-
3444	3447	cut	shale/claystone	95	0,62	W42/0016-
3597	3600	cut	shale/claystone	80	0,41	W42/0020-
3597	3600	cut	shale/claystone	80	0,51	W42/0020-
3597	3600	cut	shale/claystone	80	0,52	W42/0020-
3597	3600	cut	shale/claystone	80	0,57	W42/0020-
3597	3600	cut	shale/claystone	80	0,46	W42/0020-
3597	3600	cut	shale/claystone	80	0,42	W42/0020-
3597	3600	cut	shale/claystone	80	0,41	W42/0020-
3597	3600	cut	shale/claystone	80	0,46	W42/0020-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
3597	3600	cut	shale/claystone	80	0,48	W42/0020-
3597	3600	cut	shale/claystone	80	0,52	W42/0020-
3597	3600	cut	shale/claystone	80	0,46	W42/0020-
3597	3600	cut	shale/claystone	80	0,44	W42/0020-
3597	3600	cut	shale/claystone	80	0,52	W42/0020-
3597	3600	cut	shale/claystone	80	0,5	W42/0020-
3597	3600	cut	shale/claystone	80	0,53	W42/0020-
3597	3600	cut	shale/claystone	80	0,45	W42/0020-
3597	3600	cut	shale/claystone	80	0,44	W42/0020-
3597	3600	cut	shale/claystone	80	0,59	W42/0020-
3597	3600	cut	shale/claystone	80	0,64	W42/0020-
3597	3600	cut	shale/claystone	80	0,52	W42/0020-
3618	3621	cut	shale/claystone	80	0,52	W42/0021-
3618	3621	cut	shale/claystone	80	0,66	W42/0021-
3618	3621	cut	shale/claystone	80	0,56	W42/0021-
3618	3621	cut	shale/claystone	80	0,51	W42/0021-
3618	3621	cut	shale/claystone	80	0,64	W42/0021-
3618	3621	cut	shale/claystone	80	0,48	W42/0021-
3618	3621	cut	shale/claystone	80	0,62	W42/0021-
3618	3621	cut	shale/claystone	80	0,51	W42/0021-
3618	3621	cut	shale/claystone	80	0,61	W42/0021-
3618	3621	cut	shale/claystone	80	0,49	W42/0021-
3618	3621	cut	shale/claystone	80	0,54	W42/0021-
3618	3621	cut	shale/claystone	80	0,61	W42/0021-
3618	3621	cut	shale/claystone	80	0,59	W42/0021-
3618	3621	cut	shale/claystone	80	0,5	W42/0021-
3618	3621	cut	shale/claystone	80	0,63	W42/0021-
3618	3621	cut	shale/claystone	80	0,66	W42/0021-
3618	3621	cut	shale/claystone	80	0,52	W42/0021-
3618	3621	cut	shale/claystone	80	0,56	W42/0021-
3618	3621	cut	shale/claystone	80	0,5	W42/0021-
3618	3621	cut	shale/claystone	80	0,6	W42/0021-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
3681	3684	cut	shale/claystone	85	0,47	W42/0022-
3681	3684	cut	shale/claystone	85	0,56	W42/0022-
3681	3684	cut	shale/claystone	85	0,62	W42/0022-
3681	3684	cut	shale/claystone	85	0,59	W42/0022-
3681	3684	cut	shale/claystone	85	0,45	W42/0022-
3681	3684	cut	shale/claystone	85	0,5	W42/0022-
3681	3684	cut	shale/claystone	85	0,48	W42/0022-
3681	3684	cut	shale/claystone	85	0,44	W42/0022-
3681	3684	cut	shale/claystone	85	0,58	W42/0022-
3681	3684	cut	shale/claystone	85	0,61	W42/0022-
3681	3684	cut	shale/claystone	85	0,67	W42/0022-
3681	3684	cut	shale/claystone	85	0,6	W42/0022-
3681	3684	cut	shale/claystone	85	0,61	W42/0022-
3681	3684	cut	shale/claystone	85	0,59	W42/0022-
3681	3684	cut	shale/claystone	85	0,66	W42/0022-
3681	3684	cut	shale/claystone	85	0,55	W42/0022-
3681	3684	cut	shale/claystone	85	0,56	W42/0022-
3681	3684	cut	shale/claystone	85	0,47	W42/0022-
3681	3684	cut	shale/claystone	85	0,64	W42/0022-
3681	3684	cut	shale/claystone	85	0,5	W42/0022-
3747	3750	cut	shale/claystone	90	0,41	W42/0023-
3747	3750	cut	shale/claystone	90	0,44	W42/0023-
3747	3750	cut	shale/claystone	90	0,5	W42/0023-
3747	3750	cut	shale/claystone	90	0,56	W42/0023-
3747	3750	cut	shale/claystone	90	0,51	W42/0023-
3747	3750	cut	shale/claystone	90	0,6	W42/0023-
3747	3750	cut	shale/claystone	90	0,58	W42/0023-
3747	3750	cut	shale/claystone	90	0,51	W42/0023-
3747	3750	cut	shale/claystone	90	0,68	W42/0023-
3747	3750	cut	shale/claystone	90	0,56	W42/0023-
3747	3750	cut	shale/claystone	90	0,61	W42/0023-
3747	3750	cut	shale/claystone	90	0,67	W42/0023-



Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
3747	3750	cut	shale/claystone	90	0,47	W42/0023-
3747	3750	cut	shale/claystone	90	0,5	W42/0023-
3747	3750	cut	shale/claystone	90	0,54	W42/0023-
3747	3750	cut	shale/claystone	90	0,43	W42/0023-
3747	3750	cut	shale/claystone	90	0,63	W42/0023-
3747	3750	cut	shale/claystone	90	0,63	W42/0023-
3747	3750	cut	shale/claystone	90	0,5	W42/0023-
3747	3750	cut	shale/claystone	90	0,52	W42/0023-
3789	3792	cut	shale/claystone	90	0,49	W42/0024-
3789	3792	cut	shale/claystone	90	0,43	W42/0024-
3789	3792	cut	shale/claystone	90	0,42	W42/0024-
3789	3792	cut	shale/claystone	90	0,64	W42/0024-
3789	3792	cut	shale/claystone	90	0,63	W42/0024-
3789	3792	cut	shale/claystone	90	0,48	W42/0024-
3789	3792	cut	shale/claystone	90	0,58	W42/0024-
3864	3867	cut	shale/claystone	20	0,69	W42/0027-
3864	3867	cut	shale/claystone	20	0,66	W42/0027-
3930	3933	cut	shale/claystone	70	0,61	W42/0029-
3930	3933	cut	shale/claystone	70	0,63	W42/0029-
3930	3933	cut	shale/claystone	70	0,64	W42/0029-
3930	3933	cut	shale/claystone	70	0,52	W42/0029-
3930	3933	cut	shale/claystone	70	0,64	W42/0029-
3930	3933	cut	shale/claystone	70	0,41	W42/0029-
3930	3933	cut	shale/claystone	70	0,5	W42/0029-
3930	3933	cut	shale/claystone	70	0,5	W42/0029-
3930	3933	cut	shale/claystone	70	0,53	W42/0029-
3930	3933	cut	shale/claystone	70	0,47	W42/0029-
3930	3933	cut	shale/claystone	70	0,48	W42/0029-
3930	3933	cut	shale/claystone	70	0,51	W42/0029-
3930	3933	cut	shale/claystone	70	0,47	W42/0029-
3930	3933	cut	shale/claystone	70	0,47	W42/0029-
3930	3933	cut	shale/claystone	70	0,56	W42/0029-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
3930	3933	cut	shale/claystone	70	0,58	W42/0029-
3930	3933	cut	shale/claystone	70	0,48	W42/0029-
3930	3933	cut	shale/claystone	70	0,54	W42/0029-
3930	3933	cut	shale/claystone	70	0,6	W42/0029-
3930	3933	cut	shale/claystone	70	0,5	W42/0029-
4029	4032	cut	shale/claystone	80	0,53	W42/0031-
4029	4032	cut	shale/claystone	80	0,57	W42/0031-
4029	4032	cut	shale/claystone	80	0,63	W42/0031-
4029	4032	cut	shale/claystone	80	0,56	W42/0031-
4029	4032	cut	shale/claystone	80	0,52	W42/0031-
4029	4032	cut	shale/claystone	80	0,45	W42/0031-
4029	4032	cut	shale/claystone	80	0,48	W42/0031-
4029	4032	cut	shale/claystone	80	0,56	W42/0031-
4029	4032	cut	shale/claystone	80	0,64	W42/0031-
4029	4032	cut	shale/claystone	80	0,5	W42/0031-
4029	4032	cut	shale/claystone	80	0,54	W42/0031-
4029	4032	cut	shale/claystone	80	0,49	W42/0031-
4029	4032	cut	shale/claystone	80	0,47	W42/0031-
4029	4032	cut	shale/claystone	80	0,51	W42/0031-
4029	4032	cut	shale/claystone	80	0,63	W42/0031-
4029	4032	cut	shale/claystone	80	0,45	W42/0031-
4029	4032	cut	shale/claystone	80	0,59	W42/0031-
4029	4032	cut	shale/claystone	80	0,59	W42/0031-
4029	4032	cut	shale/claystone	80	0,48	W42/0031-
4029	4032	cut	shale/claystone	80	0,51	W42/0031-
4119	4122	cut	shale/claystone	80	0,46	W42/0032-
4119	4122	cut	shale/claystone	80	0,55	W42/0032-
4119	4122	cut	shale/claystone	80	0,45	W42/0032-
4119	4122	cut	shale/claystone	80	0,56	W42/0032-
4119	4122	cut	shale/claystone	80	0,58	W42/0032-
4119	4122	cut	shale/claystone	80	0,55	W42/0032-
4119	4122	cut	shale/claystone	80	0,48	W42/0032-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
4119	4122	cut	shale/claystone	80	0,64	W42/0032-
4119	4122	cut	shale/claystone	80	0,57	W42/0032-
4119	4122	cut	shale/claystone	80	0,52	W42/0032-
4119	4122	cut	shale/claystone	80	0,49	W42/0032-
4119	4122	cut	shale/claystone	80	0,64	W42/0032-
4119	4122	cut	shale/claystone	80	0,58	W42/0032-
4119	4122	cut	shale/claystone	80	0,56	W42/0032-
4119	4122	cut	shale/claystone	80	0,62	W42/0032-
4119	4122	cut	shale/claystone	80	0,45	W42/0032-
4119	4122	cut	shale/claystone	80	0,6	W42/0032-
4119	4122	cut	shale/claystone	80	0,49	W42/0032-
4119	4122	cut	shale/claystone	80	0,51	W42/0032-
4119	4122	cut	shale/claystone	80	0,61	W42/0032-
4206	4209	cut	shale/claystone	40	0,62	W42/0033-
4206	4209	cut	shale/claystone	40	0,52	W42/0033-
4206	4209	cut	shale/claystone	40	0,55	W42/0033-
4206	4209	cut	shale/claystone	40	0,51	W42/0033-
4206	4209	cut	shale/claystone	40	0,68	W42/0033-
4206	4209	cut	shale/claystone	40	0,61	W42/0033-
4206	4209	cut	shale/claystone	40	0,66	W42/0033-
4206	4209	cut	shale/claystone	40	0,57	W42/0033-
4206	4209	cut	shale/claystone	40	0,73	W42/0033-
4206	4209	cut	shale/claystone	40	0,72	W42/0033-
4206	4209	cut	shale/claystone	40	0,71	W42/0033-
4206	4209	cut	shale/claystone	40	1,47	W42/0033-
4206	4209	cut	shale/claystone	40	1,25	W42/0033-
4206	4209	cut	shale/claystone	40	1,28	W42/0033-
4206	4209	cut	shale/claystone	40	1,22	W42/0033-
4206	4209	cut	shale/claystone	40	1,23	W42/0033-
4206	4209	cut	shale/claystone	40	1,09	W42/0033-
4206	4209	cut	shale/claystone	40	1,41	W42/0033-
4206	4209	cut	shale/claystone	40	0,96	W42/0033-

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
4206	4209	cut	shale/claystone	40	0,86	W42/0033-
4248	4251	cut	coal	5	0,71	W42/0035-
4248	4251	cut	coal	5	0,54	W42/0035-
4248	4251	cut	coal	5	0,5	W42/0035-
4248	4251	cut	coal	5	0,51	W42/0035-
4248	4251	cut	coal	5	0,58	W42/0035-
4248	4251	cut	coal	5	0,64	W42/0035-
4248	4251	cut	coal	5	0,51	W42/0035-
4248	4251	cut	coal	5	0,61	W42/0035-
4248	4251	cut	coal	5	0,52	W42/0035-
4248	4251	cut	coal	5	0,56	W42/0035-
4248	4251	cut	coal	5	0,54	W42/0035-
4248	4251	cut	coal	5	0,54	W42/0035-
4248	4251	cut	coal	5	0,49	W42/0035-
4248	4251	cut	coal	5	0,56	W42/0035-
4248	4251	cut	coal	5	0,47	W42/0035-
4248	4251	cut	coal	5	0,6	W42/0035-
4248	4251	cut	coal	5	0,64	W42/0035-
4248	4251	cut	coal	5	0,53	W42/0035-
4248	4251	cut	coal	5	0,66	W42/0035-
4248	4251	cut	coal	5	0,63	W42/0035-
4266	4269	cut	shale/claystone	30	0,55	W42/0036-
4266	4269	cut	shale/claystone	30	0,62	W42/0036-
4266	4269	cut	shale/claystone	30	0,62	W42/0036-
4266	4269	cut	shale/claystone	30	0,53	W42/0036-
4266	4269	cut	shale/claystone	30	0,54	W42/0036-
4266	4269	cut	shale/claystone	30	0,54	W42/0036-
4266	4269	cut	shale/claystone	30	0,66	W42/0036-
4266	4269	cut	shale/claystone	30	0,71	W42/0036-
4266	4269	cut	shale/claystone	30	0,73	W42/0036-
4266	4269	cut	shale/claystone	30	0,72	W42/0036-
4266	4269	cut	shale/claystone	30	0,54	W42/0036-

Vitrinite Reflectance - Raw

Table 4d: Raw Vitrinite reflectance data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	%Ro	Sample number
4266	4269	cut	shale/claystone	30	0,61	W42/0036-
4266	4269	cut	shale/claystone	30	0,52	W42/0036-
4266	4269	cut	shale/claystone	30	0,53	W42/0036-
4266	4269	cut	shale/claystone	30	0,71	W42/0036-
4266	4269	cut	shale/claystone	30	0,72	W42/0036-
4266	4269	cut	shale/claystone	30	0,73	W42/0036-
4266	4269	cut	shale/claystone	30	0,74	W42/0036-
4266	4269	cut	shale/claystone	30	0,6	W42/0036-
4266	4269	cut	shale/claystone	30	0,69	W42/0036-
4320	4323	cut	shale/claystone	35	0,49	W42/0038-
4320	4323	cut	shale/claystone	35	0,54	W42/0038-
4320	4323	cut	shale/claystone	35	0,6	W42/0038-
4320	4323	cut	shale/claystone	35	0,76	W42/0038-
4320	4323	cut	shale/claystone	35	0,69	W42/0038-
4320	4323	cut	shale/claystone	35	0,5	W42/0038-
4320	4323	cut	shale/claystone	35	0,64	W42/0038-
4320	4323	cut	shale/claystone	35	0,68	W42/0038-

Table 5 Visual kerogen data for NOCS Well 34/6-1S

Upper depth (m)	Lower depth (m)	Sample type	Description	% Litho.	AM %	AP %	HE %	WO %	CO %	SCI	Sample number
1490	1500	cut	shale/claystone	35	70	5	20	5	TR	3.5(?)	W42/0002-2
1720	1730	cut	shale/claystone	100	60	10	10	15	5	4.0(?)	W42/0003-1
2050	2060	cut	shale/claystone	90	30	10	15	25	20	3.5-4.0	W42/0004-1
2140	2150	cut	shale/claystone	90	25	5	20	30	20	4	W42/0005-1
2470	2480	cut	shale/claystone	85	10	5	10	25	50	4.0-4.5	W42/0006-1
2670	2680	cut	shale/claystone	90	30	15	5	25	25	4,5	W42/0007-1
2870	2880	cut	shale/claystone	95	25	10	5	15	45	4,5	W42/0008-1
3110	3120	cut	shale/claystone	95	15	5	5	25	50	4.5-5.0(??)	W42/0009-1
3240	3250	cut	shale/claystone	95	20	10	5	25	40	4.5-5.0(?)	W42/0010-1
3270	3280	cut	shale/claystone	95	40	10	TR	20	30	5-0(?)	W42/0011-1
3378	3381	cut	shale/claystone	30	50	10	10	20	10	4.5-5.5	W42/0012-2
3405	3408	cut	shale/claystone	40	65	20	5	5	5	5.0(?)	W42/0013-2
3414	3417	cut	shale/claystone	70	45	15	10	15	15	5.0-5.5(??)	W42/0014-2
3420	3423	cut	shale/claystone	80	30	5	15	20	30	5.5(?)	W42/0015-1
3444	3447	cut	shale/claystone	95	15	5	20	35	25	5.5-6.0(?)	W42/0016-1
3597	3600	cut	shale/claystone	80	35	5	10	35	15	6.0(?)	W42/0020-6
3618	3621	cut	shale/claystone	80	50	30	TR	15	5	NDP/6.0-6.5(??)	W42/0021-1
3681	3684	cut	shale/claystone	85	10	15	15	40	20	6.0(?)	W42/0022-1
3747	3750	cut	shale/claystone	90	30	20	15	20	15	6.0(?)	W42/0023-1
3789	3792	cut	shale/claystone	90	20	10	55	10	5	5.5(??)	W42/0024-1
3864	3867	cut	shale/claystone	20	40	10	30	10	10	5.5-6.0(??)	W42/0027-3
3930	3933	cut	shale/claystone	70	75	5	10	5	5	6.0(?)	W42/0029-3
4029	4032	cut	shale/claystone	80	35	5	15	30	15	6.0-6.5(?)	W42/0031-3
4119	4122	cut	shale/claystone	80	45	TR	15	30	10	6.5(?)	W42/0032-1
4206	4209	cut	shale/claystone	40	25	TR	10	35	30	6.5-7.0	W42/0033-1
4248	4251	cut	coal	5	55	TR	10	25	10	6.5-7.0	W42/0035-4
4266	4269	cut	coal	5	50	5	10	30	5	6.5(??)	W42/0036-4
4320	4323	cut	shale/claystone	35	45	TR	15	30	10	6.5-7.0(?)	W42/0038-1