

Table 7 : Thermal Maturity Data for well NOCS 2/10-2

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
3899.00	cut	bulk	-	-	-	-	8.5-9.0	441	0050-0B
3905.00	cut	bulk	-	-	-	-	9.0	442	0052-0B
3911.00	cut	bulk	-	-	-	-	9.0	437	0054-0B
4010.00	cut	bulk	-	-	-	-	8.5-9.0	-	0064-0B
4109.00	cut	bulk	-	-	-	-	9.0	-	0067-0B

Table 8 : Visual Kerogen Composition Data for well NOCS 2/10-2

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	D			I	S	I	M	S	V	C	V	A	Sample					
			P	m	i	p	u	R	A	A	B	N	F	n	i	c	I	T	o		i				
			T	r	D	P	i	s	g	o	r	t	R	s	F	D	r	e	t	R	l	l	D	r	t
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n	o	I	%	n	n	t	V	V
2810.00	cut	bulk	60	*	**			*	?			5	*						35	*					0001-0B
2910.00	cut	bulk	75	*	**	*		*	?	?		15	*	*					15	*	*				0003-0B
3010.00	cut	bulk	85	*	**	*		*	*	*		15	*	*	**				TR		*				0012-0B
3110.00	cut	bulk	NDP		**	*						NDP		*					NDP		*				0013-0B
3210.00	cut	bulk	NDP		**	*		*				NDP		*					NDP		*				0014-0B
3310.00	cut	bulk	NDP		**	*		*				NDP		*					NDP		*				0015-0B
3410.00	cut	bulk	NDP									NDP							NDP						0016-0B
3510.00	cut	bulk	NDP		**	*						NDP		*					NDP		*				0017-0B
3610.00	cut	bulk	50		**	*						50	*	*	**				TR		*				0018-0B
3710.00	cut	bulk	20	*	*	*						50	*	*	*				30	*	*	*			0019-0B
3809.00	cut	bulk	40		**	*		*	*			50	*	*					10	*	*	*			0022-0B
3881.00	cut	bulk	90	**		*		*				5		*					5		*				0044-0B

Table 8 : Visual Kerogen Composition Data for well NOCS 2/10-2

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	D			I	S	I	M	S	V	C	V	A	Sample
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n	o	I	
3887.00	cut	bulk	95	**	*		*				5	*			TR	*				0046-0B
3893.00	cut	bulk	75	**	*		*				25	*	*		TR	*				0048-0B
3899.00	cut	bulk	90	**	**		*				10	**	*		TR	*				0050-0B
3905.00	cut	bulk	85	**	**		?				15	*	**		TR	*				0052-0B
3911.00	cut	bulk	15	*	**						60	*	**	*	25	**	*	*		0054-0B
4010.00	cut	bulk	20	*	**						55	*	**	*	25	**	*	*		0064-0B
4109.00	cut	bulk	TR		*						90	*	*		10	*				0067-0B

Table 9: Isotope GC Analysis of Headspace Gas for Well 2/10-2 .

Depth unit of measure: m

Depth	n-C1	n-C2	n-C3	i-C4	n-C4
3881m	-46.3	-35.4	-32.3	-33.5	-32.1
3899m	-44.9	-37.3	-33.0	-33.5	-32.5
4097m	-43.7*	-29.5	-31.2	-38.9*	-30.4
4106m	-54.0	-29.5	-29.0	-32.6	-29.5

* Uncertain values due to small concentration of compound.

Table 10A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 2/10-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
3090.25	ccp	bulk	-27.37	-27.53	-27.28	-27.23	-27.47	-	0106-0
3090.45	ccp	bulk	-27.58	-27.70	-27.34	-27.40	-27.72	-	0107-0
3090.90	ccp	bulk	-27.68	-27.73	-27.30	-27.31	-27.39	-	0108-0
3881.00	cut	bulk	-28.57	-29.42	-28.90	-28.26	-28.25	-	0044-0
3884.00	cut	bulk	-28.84	-29.63	-28.68	-28.38	-28.53	-	0045-0
3887.00	cut	bulk	-29.17	-29.74	-28.88	-28.76	-28.94	-	0046-0
3890.00	cut	bulk	-29.11	-29.75	-28.92	-28.69	-28.93	-	0047-0
3893.00	cut	bulk	-29.38	-29.95	-29.35	-29.02	-29.45	-	0048-0
3896.00	cut	bulk	-29.15	-29.81	-28.81	-28.97	-29.74	-	0049-0
3899.00	cut	bulk	-29.43	-29.92	-29.12	-28.73	-29.30	-	0050-0
3902.00	cut	bulk	-29.52	-30.05	-29.45	-29.16	-29.42	-	0051-0
3905.00	cut	bulk	-29.58	-30.09	-29.44	-29.09	-29.56	-	0052-0
3908.00	cut	bulk	-29.54	-29.86	-29.27	-28.98	-29.75	-	0053-0
3911.00	cut	bulk	-29.38	-29.87	-29.31	-29.08	-29.22	-	0054-0

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

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
3090.25	ccp	bulk	-27.53	-27.28	-2.56	0106-0
3090.45	ccp	bulk	-27.70	-27.34	-2.26	0107-0
3090.90	ccp	bulk	-27.73	-27.30	-2.10	0108-0
3881.00	cut	bulk	-29.42	-28.90	-1.38	0044-0
3884.00	cut	bulk	-29.63	-28.68	-0.36	0045-0
3887.00	cut	bulk	-29.74	-28.88	-0.52	0046-0
3890.00	cut	bulk	-29.75	-28.92	-0.58	0047-0
3893.00	cut	bulk	-29.95	-29.35	-1.03	0048-0
3896.00	cut	bulk	-29.81	-28.81	-0.19	0049-0
3899.00	cut	bulk	-29.92	-29.12	-0.60	0050-0
3902.00	cut	bulk	-30.05	-29.45	-1.00	0051-0
3905.00	cut	bulk	-30.09	-29.44	-0.88	0052-0
3908.00	cut	bulk	-29.86	-29.27	-1.08	0053-0
3911.00	cut	bulk	-29.87	-29.31	-1.15	0054-0

List of Triterpane Distribution Ratios

Ratio 1: B / A

Ratio 2: $B / B+A$

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

Ratio 4: C / E

Ratio 5: $C / C+E$

Ratio 6: X / E

Ratio 7: Z / E

Ratio 8: Z / C

Ratio 9: $Z / Z+E$

Ratio 10: Q / E

Ratio 11: $E / E+F$

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

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

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

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

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
3090.25	bulk	0.66	0.40	0.13	0.52	0.34	0.09	0.05	0.09	0.04	0.14	0.93	0.35	0.08	60.30	0106-0
3090.45	bulk	0.75	0.43	0.13	0.50	0.33	0.08	0.05	0.09	0.04	0.12	0.93	0.33	0.08	60.70	0107-0
3090.90	bulk	0.74	0.43	0.14	0.53	0.35	0.08	0.04	0.08	0.04	0.11	0.92	0.35	0.09	64.32	0108-0
3881.00	bulk	0.14	0.13	0.12	0.33	0.25	0.25	-	-	-	1.92	1.00	0.25	-	63.75	0044-0
3884.00	bulk	0.13	0.12	0.11	0.36	0.27	0.26	-	-	-	1.62	0.93	0.25	0.05	63.83	0045-0
3887.00	bulk	0.12	0.11	0.11	0.32	0.24	0.25	-	-	-	1.68	1.00	0.24	-	62.15	0046-0
3890.00	bulk	0.09	0.09	0.07	0.32	0.24	0.26	-	-	-	1.30	1.00	0.24	-	61.18	0047-0
3893.00	bulk	0.07	0.07	0.09	0.33	0.25	0.35	-	-	-	2.50	0.93	0.23	0.06	63.47	0048-0
3896.00	bulk	0.09	0.08	0.11	0.31	0.24	0.28	-	-	-	2.64	1.00	0.24	-	68.31	0049-0
3899.00	bulk	0.08	0.08	0.09	0.29	0.22	0.25	-	-	-	2.00	0.93	0.21	0.06	63.27	0050-0
3902.00	bulk	0.09	0.08	0.09	0.34	0.25	0.31	-	-	-	1.29	1.00	0.25	-	60.00	0051-0
3905.00	bulk	0.10	0.09	0.10	0.34	0.25	0.31	-	-	-	1.20	0.93	0.24	0.05	61.23	0052-0
3908.00	bulk	0.19	0.16	0.15	0.38	0.28	0.26	0.09	0.23	0.08	1.27	0.94	0.27	0.05	60.05	0053-0
3911.00	bulk	0.18	0.15	0.12	0.42	0.30	0.23	0.08	0.18	0.07	0.97	0.93	0.31	0.09	60.73	0054-0

List of Sterane Distribution Ratios

Ratio 1: $a / a+j$

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

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

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

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

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

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

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

Ratio 9: q / t

Ratio 10: $r+s / t$

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

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3090.25	bulk	0.83	46.48	72.23	1.62	0.74	0.50	0.35	0.57	0.87	2.43	0106-0
3090.45	bulk	0.81	47.10	72.42	1.61	0.74	0.52	0.38	0.57	0.89	2.48	0107-0
3090.90	bulk	0.82	49.99	72.13	1.56	0.72	0.51	0.37	0.56	1.00	2.59	0108-0
3881.00	bulk	0.88	44.81	81.00	2.02	0.83	0.85	0.72	0.68	0.81	3.86	0044-0
3884.00	bulk	0.88	53.29	78.77	1.92	0.78	0.83	0.71	0.65	1.14	3.97	0045-0
3887.00	bulk	0.88	49.11	79.27	2.04	0.80	0.86	0.75	0.66	0.96	3.76	0046-0
3890.00	bulk	0.85	47.16	77.99	1.82	0.79	0.77	0.65	0.64	0.89	3.35	0047-0
3893.00	bulk	0.87	46.24	76.84	1.90	0.78	0.88	0.78	0.62	0.86	3.09	0048-0
3896.00	bulk	0.87	41.61	77.91	1.92	0.81	0.89	0.78	0.64	0.71	3.02	0049-0
3899.00	bulk	0.86	47.72	77.31	1.89	0.78	0.85	0.74	0.63	0.91	3.26	0050-0
3902.00	bulk	0.84	60.50	80.36	1.80	0.77	0.80	0.67	0.67	1.53	5.18	0051-0
3905.00	bulk	0.84	53.93	79.31	1.72	0.78	0.76	0.64	0.66	1.17	4.16	0052-0
3908.00	bulk	0.84	52.52	78.73	1.75	0.78	0.76	0.63	0.65	1.11	3.90	0053-0
3911.00	bulk	0.83	55.80	77.87	1.55	0.76	0.74	0.59	0.64	1.26	3.98	0054-0

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

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
3090.25	bulk	0.67	0.64	0.36	0.39	0.44	0106-0
3090.45	bulk	0.66	0.61	0.35	0.38	0.44	0107-0
3090.90	bulk	0.67	0.64	0.37	0.39	0.45	0108-0
3881.00	bulk	0.96	0.95	0.86	0.87	0.89	0044-0
3884.00	bulk	0.95	0.95	0.84	0.84	0.87	0045-0
3887.00	bulk	0.96	0.96	0.87	0.88	0.90	0046-0
3890.00	bulk	0.95	0.95	0.85	0.85	0.88	0047-0
3893.00	bulk	0.96	0.96	0.89	0.89	0.92	0048-0
3896.00	bulk	0.96	0.96	0.88	0.89	0.91	0049-0
3899.00	bulk	0.96	0.96	0.88	0.88	0.91	0050-0
3902.00	bulk	0.97	0.97	0.88	0.89	0.91	0051-0
3905.00	bulk	0.96	0.96	0.89	0.90	0.91	0052-0

Ratio1: a1 / a1 + g1

Ratio2: b1 / b1 + g1

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

Ratio4: a1 / a1 + e1 + f1 + g1

Ratio5: a1 / a1 + d1

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

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
3908.00	bulk	0.97	0.97	0.90	0.90	0.92	0053-0
3911.00	bulk	0.96	0.96	0.87	0.87	0.90	0054-0

Ratio1: $a1 / a1 + g1$

Ratio2: $b1 / b1 + g1$

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

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

Ratio5: $a1 / a1 + d1$

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

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Sample
3090.25	bulk	0.35	0.26	0.24	0.20	0106-0
3090.45	bulk	0.40	0.30	0.27	0.22	0107-0
3090.90	bulk	0.37	0.28	0.25	0.21	0108-0
3881.00	bulk	1.00	1.00	0.87	0.87	0044-0
3884.00	bulk	0.78	0.64	0.68	0.56	0045-0
3887.00	bulk	0.81	0.71	0.70	0.63	0046-0
3890.00	bulk	0.79	0.71	0.68	0.61	0047-0
3893.00	bulk	0.87	0.77	0.78	0.71	0048-0
3896.00	bulk	0.86	0.80	0.77	0.69	0049-0
3899.00	bulk	0.83	0.73	0.75	0.67	0050-0
3902.00	bulk	0.84	0.73	0.74	0.64	0051-0
3905.00	bulk	0.85	0.77	0.77	0.70	0052-0
3908.00	bulk	0.83	0.72	0.72	0.66	0053-0

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

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

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

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
3911.00	bulk	0.82	0.72	0.71	0.62	0054-0

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

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

Table 11E: Aromatisation of Steranes (peak height) for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Sample
3090.25	bulk	0.47	0.84	0106-0
3090.45	bulk	0.45	0.87	0107-0
3090.90	bulk	0.48	0.84	0108-0
3881.00	bulk	0.12	1.00	0044-0
3884.00	bulk	0.38	0.86	0045-0
3887.00	bulk	0.40	1.00	0046-0
3890.00	bulk	0.37	1.00	0047-0
3893.00	bulk	0.39	1.00	0048-0
3896.00	bulk	0.41	1.00	0049-0
3899.00	bulk	0.38	1.00	0050-0
3902.00	bulk	0.43	1.00	0051-0
3905.00	bulk	0.41	1.00	0052-0

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

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

Table 11E: Aromatisation of Steranes (peak height) for Well NOCS 2/10-2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3908.00	bulk	0.48	1.00	0053-0
3911.00	bulk	0.45	0.89	0054-0

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

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

Table 11F: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3090.25	bulk	112814.9 260538.8 130003.1	70743.5 0.0 115043.6	35354.0 42633.6 75747.6	59416.2 23351.1 87245.6	18599.3 0.0 51048.6	121026.4 497560.7 37414.0	79330.4 39188.0 22029.7	22514.7 0.0 25461.5	0.0 182524.7 13148.8	0106-0
3090.45	bulk	506321.9 1008698.6 552644.4	232944.8 0.0 524188.9	125725.3 156160.0 339386.0	222591.3 78457.8 420352.9	69567.3 0.0 258222.2	444641.5 2019058.9 213694.9	335380.0 156073.5 136869.0	92437.8 0.0 139271.3	0.0 795024.4 92165.0	0107-0
3090.90	bulk	228545.2 584556.8 280553.6	124020.6 0.0 265858.4	76972.3 85336.0 147462.5	131404.5 52236.1 198005.3	50342.9 0.0 130662.9	260950.5 1096087.6 101060.3	194159.3 91372.1 62799.8	49043.4 0.0 55661.4	0.0 422538.8 39304.2	0108-0
3881.00	bulk	522803.0 82255.5 79488.8	482155.4 0.0 101637.4	216480.0 63379.8 57799.2	176223.1 0.0 72765.9	101880.2 0.0 44451.2	236259.1 250521.4 42128.8	34014.8 0.0 25098.0	0.0 0.0 23435.0	0.0 98819.3 19258.0	0044-0

Table 11F: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3884.00	bulk	458525.1	398624.0	189158.0	178258.0	90334.2	242900.3	32145.6	0.0	0.0	0045-0
		89602.2	0.0	63772.8	0.0	0.0	245712.0	17904.0	0.0	112742.4	
		74654.4	92089.4	52176.0	68441.1	36986.1	37380.4	23558.9	28484.1	21790.0	
3887.00	bulk	463446.4	412637.7	181220.2	186092.5	93700.7	263587.4	31650.3	0.0	0.0	0046-0
		79711.2	0.0	60777.0	0.0	0.0	246192.0	0.0	0.0	105248.0	
		75424.0	88825.6	54102.3	69044.7	36660.7	31533.3	22595.0	21141.0	16900.0	
3890.00	bulk	472527.3	397885.1	170661.3	159039.9	78156.0	246218.0	23263.1	0.0	0.0	0047-0
		96535.8	0.0	79228.3	0.0	0.0	304928.3	0.0	0.0	127204.0	
		88616.9	125617.0	79697.0	112753.9	54610.8	53738.6	41273.5	43144.3	28838.9	
3893.00	bulk	405141.1	364818.2	156932.6	136546.7	68593.5	206464.9	14646.0	0.0	0.0	0048-0
		47839.1	0.0	50622.8	0.0	0.0	146052.4	11309.0	0.0	66558.7	
		39423.3	61126.9	35176.5	41209.3	27677.5	22009.3	15939.0	13814.8	16429.0	
3896.00	bulk	430034.5	382991.1	177992.3	150643.0	74460.1	203335.3	17795.0	0.0	0.0	0049-0
		44611.2	0.0	39974.8	0.0	0.0	144866.6	0.0	0.0	58333.0	
		41267.1	62484.1	28985.9	41938.1	22012.8	17458.6	13257.0	20154.6	14256.0	

Table 11F: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3899.00	bulk	389737.5 51432.5 50399.0	353910.9 0.0 65759.6	163188.9 45153.9 38171.0	148430.9 0.0 47586.0	77020.5 0.0 24716.5	236763.4 177199.4 22912.1	19266.0 12995.0 19751.0	0.0 0.0 18403.5	0.0 13500.0 15384.0	0050-0
3902.00	bulk	547973.5 109496.7 90544.8	422195.4 0.0 115484.6	223082.7 100668.9 76997.7	178185.9 0.0 99431.9	90523.2 0.0 57716.5	380384.3 326585.7 55784.0	33183.0 0.0 35541.5	0.0 0.0 44798.0	0.0 136271.1 30347.7	0051-0
3905.00	bulk	382156.3 83279.5 74430.2	295563.1 0.0 93098.2	163438.7 75375.1 58937.3	125344.0 0.0 74720.3	64612.6 0.0 42354.2	273790.0 246194.1 33580.1	28687.9 17268.0 26632.0	0.0 0.0 31034.0	0.0 103798.3 27022.0	0052-0
3908.00	bulk	238706.8 59591.3 53111.9	196565.3 0.0 59067.8	97369.3 40925.3 39295.1	76145.3 0.0 45077.4	44461.2 0.0 28303.3	150465.9 154972.7 28000.0	27973.7 9758.0 20142.0	13942.0 0.0 28271.3	0.0 76091.5 17742.4	0053-0
3911.00	bulk	293664.9 101798.9 81511.2	232973.3 0.0 89439.6	126210.3 55423.3 57829.3	106232.5 12077.0 76461.8	53877.9 0.0 37540.8	193328.6 240116.1 43826.1	35367.0 19161.7 23356.2	18547.3 0.0 36230.2	0.0 105952.0 24458.9	0054-0

Table 11G: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daS	27daR	28d β S	28d β R	28daS *	Sample
		29d β S	27 β β S *	27aaR	29d β R	29daS	28aaS	28 β β R *	28 β β S		
		28aaR	29aaS	29 β β R	29 β β S	29aaR					
3090.25	bulk	146712.1	57009.1	292217.1	177198.9	69129.7	72034.1	102804.5	49781.8	68713.2	0106-0
		182031.4	92047.0	58880.4	112423.1	32039.6	25879.6	49319.6	51963.5		
		23511.7	41239.6	62616.5	52808.0	47494.9					
3090.45	bulk	632768.3	270223.6	1065930.3	671036.2	251736.0	258742.5	381667.9	192893.1	258421.8	0107-0
		688349.7	360060.9	247530.1	416729.8	112201.9	91158.0	178803.3	199393.9		
		102829.5	172794.9	268804.1	212939.6	194051.5					
3090.90	bulk	360955.2	135883.4	627693.6	356284.0	147001.9	160036.5	216756.1	111887.6	154826.5	0108-0
		401356.0	200616.4	140605.4	251308.5	73979.4	64305.8	99544.8	105044.2		
		61723.0	102604.2	148597.8	117000.9	102648.9					
3881.00	bulk	872345.6	424946.2	519537.4	330932.0	100308.0	107777.3	182495.4	100013.1	95998.4	0044-0
		271807.3	135856.0	67982.6	110636.3	40512.0	28393.3	101589.6	101599.9		
		26692.0	32728.6	79512.6	76120.0	40306.3					

Table 11G: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daS	27daR	28d β S	28d β R	28daS * Sample
		29d β S	27 β β S *	27aaR	29d β R	29daS	28aaS	28 β β R *	28 β β S	
		28aaR	29aaS	29 β β R	29 β β S	29aaR				
3884.00	bulk	730071.8 220383.3 26852.3	351962.9 111728.3 41854.5	410479.9 58113.0 75569.4	247789.9 93906.8 70173.3	71706.0 35218.7 36693.8	97493.2 29561.1	144496.3 80874.4	92195.2 79077.3	63314.8 0045-0
3887.00	bulk	835366.0 209422.0 24536.2	393888.6 97978.8 33487.8	415908.3 55067.0 73619.3	238662.9 85315.0 56780.3	79491.2 30912.7 34706.2	79767.0 28926.2	130420.4 73835.6	68592.3 72407.6	59125.2 0046-0
3890.00	bulk	730797.7 261044.7 33922.3	345159.4 138756.5 53446.3	477404.1 82656.3 108857.9	260497.9 118629.1 91895.8	92856.1 39655.1 59880.6	99233.8 39153.3	177853.8 92524.6	98245.1 113424.5	89537.0 0047-0
3893.00	bulk	672670.6 167032.0 19649.2	294842.5 68130.6 22368.3	308006.8 45099.5 44853.8	186098.4 68676.1 35385.2	55310.9 26441.6 26007.0	63770.5 23594.5	98248.9 59908.6	57457.3 61541.3	50749.7 0048-0
3896.00	bulk	717612.9 170714.8 17976.0	302982.9 85250.7 18757.7	327116.0 49047.9 43691.4	176653.4 72545.5 35796.6	59053.2 28971.0 26317.3	69114.1 20714.7	109282.5 56488.7	68397.5 56224.5	52148.4 0049-0

Table 11G: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daS	27daR	28d β S	28d β R	28daS * Sample
		29d β S	27 β β S *	27aaR	29d β R	29daS	28aaS	28 β β R *	28 β β S	
		28aaR	29aaS	29 β β R	29 β β S	29aaR				
3899.00	bulk	680959.7 172745.4 16594.0	319345.0 88402.5 31599.0	324483.3 54089.4 57234.4	190717.5 83177.8 55549.4	60194.9 24170.7 34618.2	65701.6 19831.4	103424.5 59896.3	61093.9 59457.8	52857.8 0050-0
3902.00	bulk	918761.5 267306.4 29008.7	346093.8 157571.6 63212.6	465532.2 85457.3 119679.7	303698.0 138963.8 94023.5	121696.9 43562.3 41264.5	121479.8 41373.1	194562.0 111858.6	100390.8 122220.7	91356.4 0051-0
3905.00	bulk	656551.4 215722.8 34932.6	240866.0 120799.7 51179.1	345440.4 64697.3 95309.4	233243.6 110937.3 86578.3	94554.7 33794.6 43719.2	86906.6 30249.1	140286.6 82456.3	76957.9 94319.3	79711.4 0052-0
3908.00	bulk	407091.2 134980.0 17944.0	158348.2 74280.8 33309.2	228198.1 42996.8 61469.2	152951.5 76922.0 55886.1	58592.3 22281.3 30117.0	57166.2 21526.7	90981.6 49171.8	52020.0 64598.2	47596.7 0053-0
3911.00	bulk	457019.4 195338.8 26457.5	181486.1 107998.1 46559.3	299356.4 60739.7 83155.6	189683.7 100588.3 63592.9	70617.6 40712.8 36873.4	75711.0 31201.9	122543.9 72228.4	67751.7 80016.8	73005.0 0054-0

Table 11H: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
3090.25	bulk	2016737.5	1736182.9	974781.3	2537512.0	1235884.3	968089.5	975300.5	0106-0
3090.45	bulk	3258225.0	2637607.5	1483328.0	4082445.3	2026972.4	1610459.4	1666770.6	0107-0
3090.90	bulk	1769692.4	1558272.0	828552.3	2128957.8	1066099.5	857704.6	871381.8	0108-0
3881.00	bulk	482671.6	417280.9	17255.8	57333.4	28071.4	22583.6	21952.1	0044-0
3884.00	bulk	1342327.3	1368565.8	65362.4	194365.8	93249.0	88707.7	75469.2	0045-0
3887.00	bulk	659493.5	665110.9	27471.1	74016.5	34023.1	29144.1	26528.5	0046-0
3890.00	bulk	1412581.0	1427254.9	66976.0	184906.3	80225.8	81659.4	81006.5	0047-0
3893.00	bulk	853534.6	825301.4	28330.5	74018.0	41270.8	32600.9	36222.0	0048-0
3896.00	bulk	573125.9	579258.6	20206.2	58529.5	24385.0	25654.8	21644.7	0049-0
3899.00	bulk	927256.6	892655.3	36141.6	96696.4	45405.0	37953.2	39074.4	0050-0
3902.00	bulk	675834.3	658663.6	25099.8	67278.2	36423.9	23278.9	22395.4	0051-0
3905.00	bulk	903354.8	866966.4	37133.2	85422.0	39075.3	31339.4	33902.5	0052-0
3908.00	bulk	979345.5	946806.1	29630.0	85801.1	44916.5	30762.0	29904.0	0053-0
3911.00	bulk	837862.0	863343.1	40076.2	92140.7	44469.4	36960.7	38840.3	0054-0

Table 11I: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 2/10-2

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
3090.25	bulk	863984.0	570917.0	1192955.3	753864.3	1600675.5	320899.0	1177703.0	592327.1	181863.5	0106-0
3090.45	bulk	1527446.0	981992.0	1860671.4	1192458.5	2307541.8	564107.9	1913139.8	937287.3	249675.5	0107-0
3090.90	bulk	848210.1	563419.5	1096740.1	707938.1	1475562.6	298289.0	1064232.0	542733.3	165186.0	0108-0
3881.00	bulk	94090.0	46445.4	0.0	0.0	0.0	0.0	14092.2	6694.0	0.0	0044-0
3884.00	bulk	268566.6	138256.5	65282.0	48490.1	77836.8	31265.4	50798.3	32727.3	12546.7	0045-0
3887.00	bulk	136182.7	80397.8	25728.7	17790.0	32318.4	12860.7	24780.0	13027.3	0.0	0046-0
3890.00	bulk	279669.3	181901.0	64421.1	52239.6	72559.2	15753.6	56748.5	29714.3	0.0	0047-0
3893.00	bulk	216771.8	107086.5	31632.7	22664.9	32533.2	9209.4	29141.8	9979.4	0.0	0048-0
3896.00	bulk	138700.8	90248.3	24552.2	17483.1	23015.7	10854.0	17524.1	9927.2	0.0	0049-0
3899.00	bulk	202400.0	106604.9	29334.3	27168.0	40123.2	13909.1	27070.9	16585.6	0.0	0050-0
3902.00	bulk	153856.0	82537.8	30433.0	23435.1	30349.4	11450.4	23516.7	12226.6	0.0	0051-0
3905.00	bulk	228367.1	136996.0	36782.9	23639.6	41085.8	16329.8	26261.5	15307.8	0.0	0052-0
3908.00	bulk	258992.0	138425.5	42440.1	29941.3	52658.6	14171.4	46713.0	21738.0	0.0	0053-0
3911.00	bulk	216155.7	125582.0	47024.0	32311.2	48454.4	15817.7	39416.4	21015.3	4974.7	0054-0



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1 Introduction

This report gives the result of vitrinite reflectance analyses performed on 33 samples from well 2/10-2 offshore Norway.

2 Material

The samples were provided from the client as dried side wall cores and cuttings. No other information was supplied.

3 Analytical techniques

The cuttings samples were washed, inspected for contamination and treated with hydrochloric and hydrofluoric acid prior to further preparation in order to concentrate the organic matter and ensure good polishing quality. The sample material were embedded in an epoxy resin, ground flat and polished using 0.25 micron diamond paste and magnesium oxide as the two final steps. The polishing quality obtained was quite satisfactory.

The analytical equipment used was a Zeiss MPM 03 photometer microscope equipped with an Epiplan-Neofluar 40/0.75 oil objective. The sensitive measuring spot was about 2.5 micron in diameter, and the measurements were made through a green band pass filter (546nm) and in oil immersion. The readings were made without a polarizer and using a stationary stage. On each sample at least 25 points were measured, if possible. A representative population was selected among the readings, and an arithmetic mean was calculated for this population.

4 Results

The vitrinite reflectance results with standard description legend are given in Table 1. Raw data with histograms for each sample are given in Appendix. Vitrinite reflectance versus depth plots on linear and logarithmic scales are given in Figure 1 and 2 respectively. A manually interpreted vitrinite reflectance versus depth curve is shown in Figure 1 and transferred to Figure 2.

Table 1. Vitrinite reflectance well 2/10-2

Sample code IFE	Sample depth mRKB	Sample type	Sample lithology	Pop. no.	Vitrinite reflectance %Rm	± std	N	Sample quality	Pre-paration
SA 965	1198	swc	clst	1	0.24	0.05	41	-----±	HF
SA 966	1314	swc	clst	1	0.23	0.03	38	-----±	HF
SA 967	1434	swc	clst	1	0.26	0.06	34	-----±	HF
SA 968	1500	swc	clst	1	0.28	0.06	30	-----±	HF
SA 969	1543	swc	clst	1	0.25	0.03	45	-----±	HF
SA 970	1700	swc	clst	1	0.29	0.05	42	-----±	HF
SA 977	1770	cut	clst	1	0.27	0.05	40	-00-±	HF
SA 971	1857	swc	clst	1	0.35	0.06	50	000-±	HF
SA 972	1937	swc	clst	1	0.36	0.04	50	000-±	HF
SA 973	2065	swc	clst	1	0.35	0.05	33	-----±	HF
SA 978	2150	cut	clst	1	0.33	0.07	37	-----±	HF
SA 979	2220	cut	clst	1	0.31	0.05	48	-----±	HF
SA 980	2300	cut	clst	1	0.34	0.07	38	-----±	HF
SA 981	2370	cut	clst	1	0.33	0.06	38	-----±	HF
SA 982	2440	cut	clst	1	0.42	0.10	20	-----+	HF
SA 983	2500	cut	clst	1	0.41	0.05	19	-----±	HF
SA 984	2600	cut	clst	1	0.43	0.08	34	-----±	HF
SA 985	2700	cut	clst	1	0.51	0.07	37	-----±	HF
SA 986	2800	cut	clst	1	0.51	0.10	43	-----±	HF
SA 987	2900	cut	clst	1	0.57	0.14	9	-----+	HF
SA 988	3000	cut	clst	1	0.67	0.10	25	-----±	HF
SA 989	3100	cut	lst	1	barren				HF
SA 990	3200	cut	lst	1	barren				HF
SA 991	3300	cut	lst	1	barren				HF
SA 992	3400	cut	lst	1	barren				HF
SA 993	3500	cut	lst/clst	1	barren				HF
SA 994	3600	cut	lst/clst	1	1.04	0.09	12	-----+	HF
SA 995	3701	cut	sst	1	(0.35)	0.06	35	00----	HF
SA 996	3806	cut	clst/slst	1	1.16	0.16	32	---+-±	HF
SA 997	3860	cut	clst/slst	1	1.11	0.11	18	-----±	HF
SA 974	3892	swc	clst	1	1.06	0.16	23	-----±	HF
SA 975	3903	swc	clst	1	1.27	0.11	26	-±---±	HF
SA 976	4142	swc	slst	1	(0.30)	0.08	11	-----	HF

