

Table 7b: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 15/6-8S

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
2550.00	cut	S/Sst : w to lt or	0.31	0.20	0201-1L
2595.00	cut	S/Sst : w to lt or, m gy	0.24	0.18	0204-1L
3108.00	cut	Sh/Clst: brn blk, dsk y brn	-	-	0243-1L
3135.00	cut	Sh/Clst: brn blk, dsk y brn	-	-	0246-1L
3171.00	cut	Sh/Clst: gy brn	-	-	0250-2L
3172.00	ccp	S/Sst : gy w to lt brn gy	0.49	0.29	0149-1L

Table 8 : Thermal Maturity Data for well NOCS 15/6-8S

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1505.00	cut	Sh/Clst: m gy to brn gy	0.32	20	0.04	3-4	-	414	0153-1L
1630.00	cut	Sh/Clst: m gy to brn gy	0.31	20	0.03	3-4	-	-	0154-1L
1750.00	cut	Sh/Clst: m gy to brn gy	0.40	20	0.04	3-5	-	390	0155-1L
1845.00	cut	Sh/Clst: m gy to brn gy, gn gy	0.41	20	0.04	3+4	-	-	0156-2L
1905.00	cut	Sh/Clst: m gy to ol gy	0.50	6	0.03	4-5	-	363	0157-1L
1965.00	cut	Sh/Clst: brn gy to ol gy, dsk y brn	0.51	10	0.05	4-5	-	360	0162-1L
2055.00	cut	Sh/Clst: ol gy to drk ol gy	0.57	11	0.03	5	-	353	0168-1L
2175.00	cut	Sh/Clst: m gy to ol gy, brn gy, dsk y brn	0.57	20	0.03	4	-	354	0176-1L
2265.00	cut	Sh/Clst: m gy to m drk gy	0.58	5	0.06	4	-	425	0182-1L
2355.00	cut	Sh/Clst: m gy	0.55	20	0.07	4-6	-	424	0188-1L
2415.00	cut	Sh/Clst: lt bl gy to lt gy	0.55	6	0.06	5	-	355	0192-1L
2670.00	cut	Sh/Clst: m gy to drk gy	0.53	13	0.12	4+5	-	356	0209-1L
2820.00	cut	Sh/Clst: m gy to m drk gy	0.54	6	0.09	5	-	354	0219-2L
2925.00	cut	Sh/Clst: m gy to m drk gy, v col	0.56	15	0.07	3-4+7	-	357	0226-2L

Table 8 : Thermal Maturity Data for well NOCS 15/6-8S

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
3020.00	cut	Sh/Clst: v col	0.53	8	0.08	4+7	-	357	0233-2L
3099.00	cut	Sh/Clst: brn blk	0.49	10	0.05	4	5.0-5.5	428	0242-1L
3117.00	cut	Sh/Clst: brn blk, dsk y brn	0.50	12	0.06	4	-	429	0244-1L
3144.00	cut	Sh/Clst: drk gy to dsk y brn	0.51	20	0.06	4-5	5.0	425	0247-1L
3171.00	cut	Sh/Clst: gy brn	0.52	20	0.04	5	5.0-5.5	435	0250-2L
3189.00	cut	Sh/Clst: gy brn	0.55	20	0.06	3-5	-	373	0252-2L

Table 9: Visual Kerogen Composition Data for well NOCS 15/6-8S

Depth unit of measure: m

Depth	Typ	Lithology	Amorphous			Algal/Phytoplankton					Herbaceous				Woody				Coaly			SCI	Sample
			AM%	FA	HA	AP%	Cy	Ta	Bo	Di	De	HE%	SP	Cu	De	WO%	FL	NF	De	CO%	FS		
3099.00	cut	Sh/Clst	75	**	*	5	*		*		10	*	*	*	TR	*	**		10	*	**	5.0-5.5	0242-1L
3108.00	cut	Sh/Clst	80	**	*	5	*		*		5	*	**	*	TR	*	**		10	*	**	5.0-5.5	0243-1L
3126.00	cut	Sh/Clst	60	*	**	TR	*		*		15	*	*	**	5	*	**		20	*	**	5.0	0245-1L
3144.00	cut	Sh/Clst	30	**	*	TR	*		*		25	*	*	*	15	**	*		30	**	*	5.0	0247-1L
3171.00	cut	Sh/Clst	55	*	**	TR	*		*		15	*	*	**	10	*	*		20	**	*	5.0-5.5	0250-2L

Table 10A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 15/6-8S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
2550.00	cut	S/Sst	-	-27.70	-26.52	-26.73	-26.09	-	0201-1
2595.00	cut	S/Sst	-	-27.68	-26.33	-26.41	-25.89	-	0204-1
3108.00	cut	Sh/Clst	-29.68	-30.87	-30.08	-29.18	-28.84	-	0243-1
3135.00	cut	Sh/Clst	-28.26	-28.63	-28.26	-28.09	-27.50	-	0246-1
3171.00	cut	Sh/Clst	-28.64	-28.07	-29.04	-28.59	-27.74	-	0250-2
3172.00	ccp	bulk	-27.54	-28.04	-26.83	-27.75	-24.83	-	0149-0

Table 10B: Tabulation of cv values from carbon isotope data for well NOCS 15/6-8S

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>
2550.00	cut	S/Sst	-27.70	-26.52	-0.44	0201-1
2595.00	cut	S/Sst	-27.68	-26.33	-0.07	0204-1
3108.00	cut	Sh/Clst	-30.87	-30.08	-0.33	0243-1
3135.00	cut	Sh/Clst	-28.63	-28.26	-1.95	0246-1
3171.00	cut	Sh/Clst	-28.07	-29.04	-5.10	0250-2
3172.00	ccp	bulk	-28.04	-26.83	-0.27	0149-0

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
2550.00	S/Sst	3.18	0.76	0.20	0.51	0.34	0.10	0.46	0.91	0.32	0.09	0.81	0.36	0.27	56.74	0201-1
2595.00	S/Sst	7.08	0.88	0.17	0.44	0.31	0.12	0.48	1.07	0.32	0.07	0.72	0.33	0.44	21.47	0204-1
3108.00	Sh/Clst	5.42	0.84	0.23	0.46	0.32	0.05	0.11	0.23	0.10	0.09	0.89	0.32	0.12	59.62	0243-1
3135.00	Sh/Clst	9.89	0.91	0.28	0.67	0.40	0.08	1.52	2.27	0.60	0.04	0.73	0.38	0.34	54.62	0246-1
3171.00	Sh/Clst	7.63	0.88	0.31	0.69	0.41	0.09	1.13	1.63	0.53	0.04	0.71	0.41	0.41	47.54	0250-2
3172.00	bulk	4.37	0.81	0.24	0.68	0.40	0.05	0.22	0.32	0.18	0.02	0.80	0.40	0.25	58.48	0149-0

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 11b: Variation in Sterane Distribution (peak height) SIR for Well NOCS 15/6-8S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
2550.00	S/Sst	0.32	25.37	73.13	0.30	0.84	0.13	0.10	0.58	0.34	1.82	0201-1
2595.00	S/Sst	0.30	11.24	59.20	0.19	0.87	0.14	0.11	0.42	0.13	0.82	0204-1
3108.00	Sh/Clst	0.62	36.88	58.56	1.64	0.66	0.32	0.21	0.41	0.58	1.12	0243-1
3135.00	Sh/Clst	0.53	23.44	38.06	1.28	0.57	0.14	0.10	0.24	0.31	0.40	0246-1
3171.00	Sh/Clst	0.51	23.29	40.17	1.04	0.59	0.13	0.10	0.25	0.30	0.44	0250-2
3172.00	bulk	0.47	32.87	69.53	0.85	0.78	0.10	0.07	0.53	0.49	1.70	0149-0

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: $r+s / t$

Depth unit of measure: m

Depth	Lithology	P	Q	R	S	T	A	B	Z	C	Sample
		X	D	E	F	G	H	I	J1	J2	
		K1	K2	L1	L2	M1	M2				
2550.00	S/Sst	2220.0 2118.1 2264.5	1990.3 3974.6 1929.1	601.4 21455.8 2043.7	950.6 4914.7 1492.7	224.7 6845.0 1837.1	2097.3 13526.5 1263.5	6660.0 2277.6	9902.1 9227.8	10915.9 7034.7	0201-1
2595.00	S/Sst	2453.1 3088.7 395.9	1661.1 6202.7 943.9	509.1 25524.2 235.8	560.9 9988.3 586.1	101.5 5473.4 124.9	1019.2 10936.7 241.2	7219.4 3272.5	12126.3 1376.2	11326.5 5033.5	0204-1
3108.00	Sh/Clst	93467.7 50520.1 245967.8	97492.5 64874.8 168505.7	55680.1 1036038.0 156043.7	42237.5 123346.2 104945.4	20750.8 494956.8 183337.0	62609.3 327964.8 117711.2	339649.0 74744.0	110911.7 280318.3	480454.1 189821.2	0243-1
3135.00	Sh/Clst	68862.8 52334.6 128916.0	21937.5 115217.3 101977.2	21715.4 617850.9 101882.4	29199.6 232227.8 90390.0	7935.9 314463.5 136816.2	34152.3 230281.8 112092.4	337828.8 105090.8	938108.7 154796.8	413115.1 128585.0	0246-1
3171.00	Sh/Clst	29601.5 32853.0 69733.3	13225.1 106998.3 57415.6	11294.7 366120.6 52474.6	15267.7 149657.2 45836.9	3742.7 193896.8 63477.4	30403.8 278208.3 49936.9	231950.1 83404.9	413948.4 90499.4	254101.4 99860.3	0250-2

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 15/6-8S

Depth unit of measure: m

Depth	Lithology	P	Q	R	S	T	A	B	Z	C	Sample
		X	D	E	F	G	H	I	J1	J2	
		K1	K2	L1	L2	M1	M2				
3172.00	bulk	5279.9	2827.0	1835.8	5353.0	1277.1	12551.1	54824.0	29807.1	93252.9	0149-0
		6456.5	22916.7	137931.1	34362.4	88788.8	61914.1	20608.0	55082.2	39109.7	
		35082.1	25211.0	23842.2	16982.6	21682.7	14841.1				

Table 11d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 15/6-8S

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
2550.00	S/Sst	2940.0	795.8	2310.5	1547.2	745.5	474.2	1326.8	2634.6	2303.3	0201-1
		5981.6	4326.7	5006.3	5345.5	1767.0	927.7	4038.2	3483.6		
		1824.9	2707.1	6806.6	7717.6	7964.9					
2595.00	S/Sst	2779.5	627.9	1484.4	1275.9	562.0	306.0	1262.1	2082.3	1129.3	0204-1
		6518.1	2343.2	3399.8	6310.9	2575.4	545.8	3534.4	1458.7		
		1780.2	1343.2	3981.4	4688.5	10606.5					
3108.00	Sh/Clst	174766.9	70246.1	463980.6	299187.9	139772.3	151394.8	169603.9	108136.6	230649.7	0243-1
		228463.6	119477.0	283308.8	187241.5	72912.0	140323.0	153905.5	107966.3		
		133321.3	110882.9	121562.3	90854.2	189742.3					
3135.00	Sh/Clst	106487.0	26593.8	556167.2	368561.5	173621.3	159078.5	236377.5	136727.4	248006.6	0246-1
		390374.2	97382.7	488360.7	272145.2	109691.0	93859.2	210460.5	67245.3		
		196342.1	147966.6	133137.1	60850.8	483344.2					
3171.00	Sh/Clst	49209.3	13653.8	230149.1	148305.9	68452.4	65188.2	100561.9	54359.6	103557.1	0250-2
		192777.5	41083.0	221776.9	144651.0	53198.8	43036.5	101127.4	47887.0		
		86937.2	70744.0	66004.4	35988.8	233056.0					

Table 11d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 15/6-8S

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
3172.00	bulk	3376.2	1477.5	10899.0	7538.9	3313.8	3476.1	5194.5	3583.8	7711.7	0149-0
		9431.1	7352.3	12188.3	8041.3	2777.4	4632.6	9470.9	7653.5		
		5710.6	7015.7	13146.9	11202.2	14325.8					

Table 11e: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 15/6-8S

Depth unit of measure: m

Depth	Lithology	h	i	n	o	r	s	x	y	Sample
2550.00	S/Sst	4590.3	3922.2	4259.9	4293.0	9925.2	10319.6	490.3	12511.9	0201-1
2595.00	S/Sst	1724.9	890.9	2070.4	2138.4	6069.5	5490.6	144.0	2400.8	0204-1
3108.00	Sh/Clst	169074.4	144413.1	137757.1	133695.1	129463.1	119097.0	32770.3	43267.9	0243-1
3135.00	Sh/Clst	124841.2	89198.5	111713.3	84511.7	129064.3	97030.0	16471.8	42127.7	0246-1
3171.00	Sh/Clst	61341.6	42839.5	54514.7	50178.1	72037.3	59492.0	11969.2	234150.5	0250-2
3172.00	bulk	11653.5	10120.3	10800.6	10883.8	17768.1	16500.1	3761.0	6909.0	0149-0

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 15/6-8S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aß</u>	<u>25nor30aß</u>	<u>Sample</u>
2550.00	S/Sst	1342.2	5822.4	0201-1
2595.00	S/Sst	0.0	5497.1	0204-1
3108.00	Sh/Clst	12321.6	13604.9	0243-1
3135.00	Sh/Clst	22638.5	13465.7	0246-1
3171.00	Sh/Clst	10997.8	5267.0	0250-2
3172.00	bulk	5061.6	1551.1	0149-0

Table 12a: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 15/6-8S

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>
2550.00	S/Sst	0.49	0.43	0.25	0.24	0.36	0201-1
2595.00	S/Sst	0.64	0.52	0.30	0.34	0.40	0204-1
3108.00	Sh/Clst	0.37	0.38	0.12	0.14	0.13	0243-1
3135.00	Sh/Clst	0.31	0.20	0.09	0.12	0.15	0246-1
3171.00	Sh/Clst	0.37	0.26	0.12	0.15	0.19	0250-2
3172.00	bulk	0.45	0.36	0.20	0.22	0.30	0149-0

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 12b: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 15/6-8S

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>
2550.00	S/Sst	0.32	0.22	0.16	0.13	0201-1
2595.00	S/Sst	0.30	0.21	0.14	0.11	0204-1
3108.00	Sh/Clst	0.49	0.38	0.33	0.30	0243-1
3135.00	Sh/Clst	0.21	0.10	0.12	0.09	0246-1
3171.00	Sh/Clst	0.23	0.12	0.13	0.09	0250-2
3172.00	bulk	0.18	0.11	0.09	0.07	0149-0

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 12c: Aromatisation of Steranes (peak height) for Well NOCS 15/6-8S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
2550.00	S/Sst	0.73	0.39	0201-1
2595.00	S/Sst	0.84	0.17	0204-1
3108.00	Sh/Clst	0.22	0.94	0243-1
3135.00	Sh/Clst	0.68	0.73	0246-1
3171.00	Sh/Clst	0.68	0.73	0250-2
3172.00	bulk	0.61	0.73	0149-0

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

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

Table 12d: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 15/6-8S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>a1</u>	<u>b1</u>	<u>c1</u>	<u>d1</u>	<u>e1</u>	<u>f1</u>	<u>g1</u>	<u>Sample</u>
2550.00	S/Sst	12198.6	9752.3	4760.7	21271.8	15516.8	10516.6	12821.8	0201-1
2595.00	S/Sst	13491.9	8227.4	3225.8	19857.9	10151.4	8803.8	7519.8	0204-1
3108.00	Sh/Clst	607268.6	635244.5	1389171.0	3930911.0	866836.5	1882419.0	1045709.0	0243-1
3135.00	Sh/Clst	142413.8	78512.1	350550.0	803457.4	313336.9	387070.2	320519.8	0246-1
3171.00	Sh/Clst	9113.6	5617.6	16652.2	38971.4	16416.7	18172.8	15828.7	0250-2
3172.00	bulk	33421.6	23282.2	30416.3	77503.0	41051.9	39339.7	41189.1	0149-0

Table 12e: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 15/6-8S

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
2550.00	S/Sst	15928.6	9551.9	8598.8	8707.4	34266.7	9767.1	50925.4	45049.9	20005.9	0201-1
2595.00	S/Sst	19857.0	12163.2	11486.4	11677.9	45874.1	13823.5	75724.6	69937.8	36781.5	0204-1
3108.00	Sh/Clst	640062.7	421208.3	377220.6	373946.2	677968.2	128784.7	606963.9	288949.1	65687.7	0243-1
3135.00	Sh/Clst	317136.3	135174.4	645156.5	562957.9	1168543.0	273313.9	1105896.0	709187.6	120127.1	0246-1
3171.00	Sh/Clst	15720.4	7320.8	29689.7	25312.5	53571.1	12605.1	55732.0	37917.6	5985.9	0250-2
3172.00	bulk	17659.2	10401.6	38187.6	34055.7	81330.5	35860.5	88826.7	65910.1	15350.1	0149-0