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<b>Geochemical evaluation of well 6608/10-6</b>		
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<b>REGISTRERT</b>

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Remarks: <b>See Summary on page 1</b>
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## **SUMMARY**

Well 6608/10-6 was drilled offshore mid-Norway using seawater through the 36" and 12½" sections (414-1408m MDRT), and KCl/glycol/polymer mud through the 8½" section (1408-2115m MDRT (TD)). The well was an oil discovery, and wireline fluid samples (oils and gases) were analysed

## Comments

This data report has been sub-divided into four sections:

1. Rocks: cores and cuttings (all cuttings washed, but uncrushed cuttings source rocks were Soxtec-extracted for a short period before analysis).
2. Extracted Rocks - core and cuttings (TOC and Rock-Eval and GHM pyrolysis GC analysis were performed after full Soxtec extraction of crushed source rock cuttings and core).
3. Oils and Gases
4. Muds

The following points should be noted:

- a. The well was drilled with a glycol based mud
- b.
- c. Some of the IFE gas isotope data were generated on a GC-IRMS instrument. Only some of these data are reported in Table 14b. The rest of these data can be found in the IFE report in Appendix 4 of the oils and gases section.

Table 1 Analytical Program for NOCS Well 6608/10-6 (rock samples)

Purpose	Sample Depth (m)	Sample Type	Sample Code	Lithology Description	Picking for screening	Prevepreparing (Kjerneretriale)	Prevepreparing (Løsningsmiddel-Ekstraksjon)	Leco TOC	RockEval	GHM Pyrolysis-GC	Picking for Extraction	Topping	Introscon	SOXTEC Extraction	MPLC & Deasphaltene#	EOM GC	Whole Oil GC	Sat GC (Q or non-Q)	Aro GC (Non Quantitative)	Sat GCMS (Q or non-Q)	Aro GCMS (Non-Q)	Isotope of fractions §	API Gravity (Westlab)	Vitrinite Reflectance	Visual Kerogen	Gas composition and isotopes (IFB)
	Table nos.							5	5				8	8	8		13	9	9	11	12	10	17	4	7	14
M	1425	c	T92/0004-0		x																			x	x	
M	1515	c	T92/0020-0		x																			x	x	
M	1610	c	T92/0038-0		x																			x	x	
M, SR	1690	c	T92/0054-2		x		x	x	x					x										x	x	
M, SR	1752	c	T92/0073-1 & -3		x		x	x	x					x										x	x	
SR	1797	c	T92/0087-2		x		x	x	x					x												
SR	1800	c	T92/0088-2		x		x	x	x																	
SR	1803	c	T92/0089-2		x		x	x	x																	
SR	1806	c	T92/0090-2		x		x	x	x																	
SR	1809	c	T92/0091-2		x		x	x	x																	
SR	1812	c	T92/0092-2		x		x	x	x																	
M, SR	1815	c	T92/0093-2		x		x	x	x															x	x	
SR	1818	c	T92/0094-2		x		x	x	x					x		x										
SR	1821	c	T92/0095-2		x		x	x	x																	
SR	1824	c	T92/0096-2		x		x	x	x																	
SR	1827	c	T92/0097-2		x		x	x	x																	
OS	1830.52	p	T92/0143-0		x				x					x	x			x								
OS	1844.97	p	T92/0144-0		x				x					x	x			x		x		x				
OS	1853.16	p	T92/0145-0		x				x					x	x			x								
M, SR	1857.56	p	T92/0146-0		x				x	x														x	x	
SR	1863.65	p	T92/0147-0		x				x	x																x
OS	1867.3	p	T92/0148-0		x				x					x	x			x		x		x				
OS	1871.54	p	T92/0149-0		x				x					x	x			x								
OS	1883.9	p	T92/0150-0		x				x					x	x			x		x		x				
hotshotOS	1885	p												X		X										
M, SR	1891.37	p	T92/0151-0		x				x	x				x	x			x						x		

Table 1 Analytical Program for NOCS Well 6608/10-6 (rock samples)

Purpose	Sample Depth (m)	Sample Type	Sample Code	Lithology Description	Picking for screening	Prevepreparing (Kjemematriale)	Prevepreparing (Losningsmiddel- Ekstraksjon)	Lecco TOC	RockEval	GHM Pyrolysis-GC	Picking for Extraction	Topping	Isroscan	SOXTEC Extraction	MPLC & Deasphalten#	EOM GC	Whole Oil GC	Sat GC (Q or non-Q)	Aro GC (Non Quantitative)	Sat GCMS (Q or non-Q)	Aro GCMS (Non-Q)	Isotope of fractions §	API Gravity (Westlab)	Vitrinite Reflectance	Visual Kerogen	Gas composition and isotopes (IFE)
	Table nos.																									
OS	1892.48	p	T92/0152-0	x				x					x	x			x									
SR	1905.9	p	T92/0153-0	x				x	x																	
M, SR	1907.5	p	T92/0154-0	x				x	x					x	x		x	x			x		x			
OS	1913.9	p	T92/0155-0	x					x					x	x		x									
hotshotOS	1918	p												X		X										
OS	1922.8	p	T92/0156-0	x					x					x	x		x	x			x					
OS	1924.65	p	T92/0157-0	x					x					x	x		x	x			x					
hotshotOS	1925	p												X		X										
hotshotOS	1943	p												X		X										
OS	1949.52	p	T92/0158-0	x					x					x	x		x	x			x					
OS	1960.67	p	T92/0159-0	x					x					x	x		x									
SR	1967.68	p	T92/0160-1	x				x	x					x	x		x	x			x					
M, SR	1968.46	p	T92/0161-0	x				x	x															x		
OS	1970.81	p	T92/0162-0	x					x					x	x		x	x			x					
SR	1974	c	T92/0098-2	x			x	x	x					x	x		x									
SR	1977	c	T92/0099-2	x			x	x	x																	
SR	1980	c	T92/0100-2	x			x	x	x																	
SR	1983	c	T92/0101-2	x			x	x	x																	
SR	1989	c	T92/0103-2	x			x	x	x					x	x		x									
SR	1998	c	T92/0105-2	x			x	x	x																	
SR	2001	c	T92/0106-2	x			x	x	x																	
SR	2007	c	T92/0108-2	x			x	x	x					x	x		x	x			x					
SR	2013	c	T92/0110-2	x			x	x	x																	
M, SR	2016	c	T92/0111-2	x			x	x	x															x	x	
SR	2049	c	T92/0120-2	x			x	x	x					x	x		x									
SR	2052	c	T92/0121-2	x			x	x	x																	

Table 1 Analytical Program for NOCS Well 6608/10-6 (rock samples)

Purpose	Sample Depth (m)	Sample Type	Sample Code	Lithology Description	Picking for screening	Prevepreparing (Kjemematriale)	Prevepreparing (Losningsmiddel-Ekstraksjon)	Leco IOC	RockEval	GHM Pyrolysis-GC	Picking for Extraction	Topping	Introscon	SOXTEC Extraction	MPLC & Deasphaltene#	EOM GC	Whole Oil GC	Sat GC (Q or non-Q)	Aro GC (Non Quantitative)	Sat GCMS (Q or non-Q)	Aro GCMS (Non-Q)	Isotope of fractions §	API Gravity (Westlab)	Vitrinite Reflectance	Visual Kerogen	Gas composition and isotopes (IFE)	
	Table nos				3			5	5				8	8	8		13	9	9	11	12	10	17	4	7	14	
SR	2055	c	T92/0122-2		x		x	x	x																		
SR	2058	c	T92/0123-2		x		x	x	x					x	x			x		x		x					
M, SR	2061	c	T92/0124-2		x		x	x	x															x	x		
SR	2064	c	T92/0125-2		x		x	x	x																		
SR	2067	c	T92/0126-2		x		x	x	x																		
SR	2070	c	T92/0127-2		x		x	x	x					x	x			x									
SR	2073	c	T92/0128-2		x		x	x	x																		
SR	2085	c	T92/0132-2		x		x	x	x					x	x			x									
SR	2088	c	T92/0133-2		x		x	x	x					x	x												
SR	2091	c	T92/0134-2		x		x	x	x																		
SR	2094	c	T92/0135-2		x		x	x	x																		
SR	2097	c	T92/0136-2		x		x	x	x					x	x			x									
SR	2103	c	T92/0138-2		x		x	x	x																		
M, SR	2106	c	T92/0139-2		x		x	x	x					x	x			x		x		x		x	x		
SR	2109	c	T92/0140-2		x		x	x	x																		
SR	2112	c	T92/0141-2		x		x	x	x																		
SR	2115	c	T92/0142-2		x		x	x	x					x	x			x									
	Total				65		42	49	62					34	26	5		26		12		12		13	11		
	Sample type key c = Cuttings s = SWC p = Conv core/ plug o=oil g= gas m=mud																										
	§ Isotope analysis on sat and aro fractions													Q=quantitative, non-Q = not quantitative													

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int	Cvd	TOC%	Lithology description				
1425.00						0004	
			50	Sh/Clst:	lt gy to m gy, calc, glauc	0004-1L	
			40	Sh/Clst:	pl y brn to drk y brn, glauc	0004-2L	
			5	Other	: drk gn, glauc	0004-3L	
			5	Meta	: lt gy w, ign	0004-4L	
			tr	Ca	: lt or	0004-5L	
1515.00						0020	
			80	Sh/Clst:	pl y brn to dsk y brn, mic, glauc	0020-1L	
			20	Ca	: lt or	0020-3L	
			tr	Meta	: lt gy w, ign	0020-2L	
1610.00						0038	
			60	Sh/Clst:	lt gy to m gy, ol gy	0038-1L	
			20	Sh/Clst:	pl y brn	0038-2L	
			10	Sh/Clst:	lt y gn, glauc	0038-3L	
			10	Sh/Clst:	dsk y brn, hd, sil	0038-4L	
			tr	Ca	: lt or	0038-5L	
1690.00						0054	
			70	Ca	: w to lt gy	0054-1L	
	1.06		30	Sh/Clst:	lt ol gy to ol gy, lt gy to m gy, pl y brn, lt y gn, brn blk, carb, glauc	0054-2L	
1752.00						0073	
	1.20		55	Sh/Clst:	dsk y brn to drk y brn, blk, lt gy to m gy, mic, dol, sil	0073-1L	
			30	Other	: pyr	0073-2L	
			10	Sh/Clst:	w to lt y gn, calc	0073-3L	
			5	Cont	: Mica-ad	0073-4L	
1797.00						0087	
			70	Ca	: dsk y brn to drk y brn, dol	0087-1L	
	1.21		25	Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy, calc	0087-2L	
			5	Other	: pyr	0087-3L	
			tr	Cont	: Mica-ad	0087-4L	

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1800.00						0088
	1.09		60 Ca	: dsk y brn to drk y brn, dol		0088-1L
			40 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0088-2L
			tr Other	: pyr		0088-3L
			tr Cont	: Mica-ad		0088-4L
1803.00						0089
	1.14		60 Ca	: dsk y brn to drk y brn, dol		0089-1L
			40 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0089-2L
			tr Other	: pyr		0089-3L
			tr Cont	: Mica-ad		0089-4L
1806.00						0090
	1.20		60 Ca	: dsk y brn to drk y brn, dol		0090-1L
			40 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0090-2L
			tr Other	: pyr		0090-3L
			tr Cont	: Mica-ad		0090-4L
1809.00						0091
	1.04		50 Ca	: dsk y brn to drk y brn, dol		0091-1L
			35 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0091-2L
			5 Other	: pyr		0091-3L
			5 Cont	: Mica-ad		0091-4L
			5 Other	: glauc		0091-5L
1812.00						0092
	1.09		50 Ca	: dsk y brn to drk y brn, dol		0092-1L
			35 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0092-2L
			5 Other	: pyr		0092-3L
			5 Cont	: Mica-ad		0092-4L
			5 Other	: glauc		0092-5L



Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1815.00						0093
	1.07		60 Ca	: dsk y brn to drk y brn, dol		0093-1L
			40 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0093-2L
			tr Other	: pyr		0093-3L
			tr Cont	: Mica-ad		0093-4L
			tr Other	: glauc		0093-5L
1818.00						0094
	1.19		60 Ca	: dsk y brn to drk y brn, dol		0094-1L
			40 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0094-2L
			tr Other	: pyr		0094-3L
			tr Cont	: Mica-ad		0094-4L
			tr Other	: glauc		0094-5L
1821.00						0095
	1.18		60 Ca	: dsk y brn to drk y brn, dol		0095-1L
			40 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0095-2L
			tr Other	: pyr		0095-3L
			tr Cont	: Mica-ad		0095-4L
			tr Other	: glauc		0095-5L
1824.00						0096
	1.15		65 Ca	: dsk y brn to drk y brn, dol		0096-1L
			25 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0096-2L
			10 Other	: pyr		0096-3L
			tr Cont	: Mica-ad		0096-4L
			tr Other	: glauc		0096-5L
1827.00						0097
	1.31		65 Ca	: dsk y brn to drk y brn, dol		0097-1L
			25 Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy		0097-2L
			10 Other	: pyr		0097-3L
			tr Cont	: Mica-ad		0097-4L
			tr Other	: glauc		0097-5L

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1830.52	ccp					0143
			100	S/Sst : pl y brn to dsk y brn, sft		0143-1L
1844.97	ccp					0144
			100	S/Sst : pl y brn to dsk y brn, sft		0144-1L
1853.16	ccp					0145
			100	S/Sst : pl y brn to dsk y brn, sft		0145-1L
1857.56	ccp					0146
		0.66	100	Sh/Clst: m gy bulk		0146-1L 0146-0B
1863.65	ccp					0147
		1.51	100	Sh/Clst: m gy bulk		0147-1L 0147-0B
1867.30	ccp					0148
			100	S/Sst : pl y brn to dsk y brn, sft		0148-1L
1871.54	ccp			Not		0149
			100	S/Sst : pl y brn to dsk y brn, lam, sft		0149-1L
1883.90	ccp					0150
			100	S/Sst : lt brn to m brn, l		0150-1L
1891.37	ccp					0151
		55.40	100	Sh/Clst: blk, carb bulk		0151-1L 0151-0B

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1892.48	ccp					0152
			100	S/Sst : or gy to pl y brn, sft		0152-1L
1905.90	ccp					0153
		61.10	100	Sh/Clst: blk, carb bulk		0153-1L 0153-0B
1907.50	ccp					0154
		52.20	100	Sh/Clst: blk, carb bulk		0154-1L 0154-0B
1913.90	ccp					0155
			100	S/Sst : lt brn to m brn, l		0155-1L
1922.80	ccp					0156
			100	S/Sst : lt brn, l		0156-1L
1924.65	ccp					0157
			100	S/Sst : lt brn, l		0157-1L
1949.52	ccp					0158
			100	S/Sst : lt brn, l		0158-1L
1960.67	ccp					0159
			100	S/Sst : lt brn, l		0159-1L
1967.68	ccp					0160
		29.30	100	Sh/Clst: blk, carb bulk		0160-1L 0160-0B

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1968.46	ccp					0161
	28.30	100		Sh/Clst: blk, carb bulk		0161-1L 0161-0B
1970.81	ccp					0162
		100		S/Sst : lt or, sft		0162-1L
1974.00						0098
	56.50	70		Sh/Clst: lt gy, lt gn gy, lt brn gy		0098-1L
		25		Sh/Clst: blk to brn blk, carb		0098-2L
		5		S/Sst : lt or, l		0098-3L
1977.00						0099
	54.90	80		Sh/Clst: blk to brn blk, carb		0099-2L
		10		Sh/Clst: lt gy, lt gn gy, lt brn gy		0099-1L
		5		S/Sst : lt or, l		0099-3L
		5		Cont : Mica-ad		0099-4L
		tr		Other : pyr		0099-5L
1980.00						0100
	49.50	80		Sh/Clst: blk to brn blk, carb		0100-2L
		10		Sh/Clst: lt gy, lt gn gy, lt brn gy		0100-1L
		5		S/Sst : lt or, l		0100-3L
		5		Cont : Mica-ad		0100-4L
		tr		Other : pyr		0100-5L
1983.00						0101
	46.70	50		S/Sst : lt or, l		0101-3L
		45		Sh/Clst: blk to brn blk, carb		0101-2L
		5		Sh/Clst: lt gy, lt gn gy, lt brn gy		0101-1L
		tr		Cont : Mica-ad		0101-4L
		tr		Other : pyr		0101-5L

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1986.00						0102
				80 S/Sst : lt or, f, l		0102-3L
				15 Sh/Clst: blk to brn blk, carb		0102-2L
				5 Sh/Clst: lt gy, lt gn gy, lt brn gy		0102-1L
				tr Cont : Mica-ad		0102-4L
				tr Other : pyr		0102-5L
1989.00						0103
				45 Sh/Clst: lt gy, lt gn gy, lt brn gy		0103-1L
				40 S/Sst : lt or, f, l		0103-3L
43.00				15 Sh/Clst: blk to brn blk, carb		0103-2L
				tr Cont : Mica-ad		0103-4L
				tr Other : pyr		0103-5L
1992.00						0104
				75 S/Sst : lt or, f, l		0104-3L
				10 Sh/Clst: lt gy, lt gn gy, lt brn gy		0104-1L
				10 Sh/Clst: blk to brn blk, carb		0104-2L
				5 Cont : Mica-ad		0104-4L
				tr Other : pyr		0104-5L
1998.00						0105
				75 Sh/Clst: blk to brn blk, carb		0105-2L
39.00				10 Sh/Clst: lt gy, lt gn gy, lt brn gy		0105-1L
				10 S/Sst : lt or, f, l		0105-3L
				5 Cont : Mica-ad		0105-4L
				tr Other : pyr		0105-5L
2001.00						0106
				45 S/Sst : lt or, f, l		0106-3L
56.70				35 Sh/Clst: blk to brn blk, carb		0106-2L
				15 Sh/Clst: lt gy, lt gn gy, lt brn gy		0106-1L
				5 Cont : Mica-ad		0106-4L
				tr Other : pyr		0106-5L

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2007.00						0108
	60.40		50	Sh/Clst: blk to brn blk, carb		0108-2L
			35	S/Sst : lt or, f, l		0108-3L
			15	Sh/Clst: lt gy, lt gn gy, lt brn gy		0108-1L
				tr Cont : Mica-ad		0108-4L
				tr Other : pyr		0108-5L
2013.00						0110
	54.00		70	S/Sst : lt or, f, l		0110-3L
			20	Sh/Clst: blk to brn blk, carb		0110-2L
			10	Sh/Clst: lt gy, lt gn gy, lt brn gy		0110-1L
				tr Cont : Mica-ad		0110-4L
				tr Other : pyr		0110-5L
2016.00						0111
	55.40		70	S/Sst : lt or, f, l		0111-3L
			20	Sh/Clst: blk to brn blk, carb		0111-2L
			10	Sh/Clst: lt gy, lt gn gy, lt brn gy		0111-1L
				tr Cont : Mica-ad		0111-4L
				tr Other : pyr		0111-5L
2049.00						0120
	55.50		80	S/Sst : lt or, f, l		0120-3L
			15	Sh/Clst: blk to brn blk, carb		0120-2L
			5	Sh/Clst: lt gy, lt gn gy, lt brn gy		0120-1L
				tr Cont : Mica-ad		0120-4L
				tr Other : pyr		0120-5L
2052.00						0121
	51.60		80	S/Sst : lt or, f, l		0121-3L
			15	Sh/Clst: blk to brn blk, carb		0121-2L
			5	Sh/Clst: lt gy, lt gn gy, lt brn gy		0121-1L
				tr Cont : Mica-ad		0121-4L
				tr Other : pyr		0121-5L

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2055.00						0122
	56.00		55	S/Sst : lt or, f, l		0122-3L
			30	Sh/Clst: blk to brn blk, carb		0122-2L
			15	Sh/Clst: lt gy, lt gn gy, lt brn gy		0122-1L
				tr Cont : Mica-ad		0122-4L
				tr Other : pyr		0122-5L
2058.00						0123
	58.00		50	Sh/Clst: blk to brn blk, carb		0123-2L
			35	S/Sst : lt or, f, l		0123-3L
			15	Sh/Clst: lt gy, lt gn gy, lt brn gy		0123-1L
				tr Cont : Mica-ad		0123-4L
				tr Other : pyr		0123-5L
2061.00						0124
	42.00		70	S/Sst : lt or, f, l		0124-3L
			15	Sh/Clst: lt gy, lt gn gy, lt brn gy		0124-1L
			15	Sh/Clst: blk to brn blk, carb		0124-2L
				tr Cont : Mica-ad		0124-4L
				tr Other : pyr		0124-5L
2064.00						0125
	41.20		80	S/Sst : lt or, f, l		0125-3L
			10	Sh/Clst: lt gy, lt gn gy, lt brn gy		0125-1L
			10	Sh/Clst: blk to brn blk, carb		0125-2L
				tr Cont : Mica-ad		0125-4L
				tr Other : pyr		0125-5L
2067.00						0126
	41.60		80	S/Sst : lt or, f, l		0126-3L
			10	Sh/Clst: lt gy, lt gn gy, lt brn gy		0126-1L
			10	Sh/Clst: blk to brn blk, carb		0126-2L
				tr Cont : Mica-ad		0126-4L
				tr Other : pyr		0126-5L

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2070.00						0127
	24.30		60 Ca	: pl y brn, dol, hd		0127-4L
			15 Sh/Clst:	blk to brn blk, carb		0127-2L
			15 S/Sst	: lt or, f, l		0127-3L
			10 Sh/Clst:	lt gy, lt gn gy, lt brn gy		0127-1L
			tr Other	: pyr		0127-5L
2073.00						0128
	28.10		60 Ca	: pl y brn, dol, hd		0128-4L
			15 Sh/Clst:	blk to brn blk, carb		0128-2L
			15 S/Sst	: lt or, f, l		0128-3L
			10 Sh/Clst:	lt gy, lt gn gy, lt brn gy		0128-1L
			tr Other	: pyr		0128-5L
2085.00						0132
	50.20		95 Sh/Clst:	blk to brn blk, carb		0132-2L
			5 Sh/Clst:	lt gy, lt gn gy, lt brn gy		0132-1L
			tr S/Sst	: lt or, f, l		0132-3L
			tr Ca	: pl y brn, dol, hd		0132-4L
			tr Other	: pyr		0132-5L
2088.00						0133
	43.80		75 Sh/Clst:	blk to brn blk, carb		0133-2L
			10 S/Sst	: lt or, f, l		0133-3L
			10 Ca	: pl y brn, dol, hd		0133-4L
			5 Sh/Clst:	lt gy, lt gn gy, lt brn gy		0133-1L
			tr Other	: pyr		0133-5L
2091.00						0134
	41.50		40 Ca	: pl y brn, dol, hd		0134-4L
			35 Sh/Clst:	blk to brn blk, carb		0134-2L
			15 Sh/Clst:	lt gy, lt gn gy, lt brn gy		0134-1L
			10 S/Sst	: lt or, f, l		0134-3L
			tr Other	: pyr		0134-5L



Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2094.00						0135
			45	Ca : pl y brn, dol, hd		0135-4L
			25	S/Sst : lt or, f, l		0135-3L
			15	Sh/Clst: lt gy, lt gn gy, lt brn gy		0135-1L
	36.20		15	Sh/Clst: blk to brn blk, carb		0135-2L
			tr	Other : pyr		0135-5L
2097.00						0136
			55	S/Sst : lt or, f, l		0136-3L
			40	Sh/Clst: blk to brn blk, carb		0136-2L
	35.10		5	Sh/Clst: lt gy, lt gn gy, lt brn gy		0136-1L
			tr	Ca : pl y brn, dol, hd		0136-4L
			tr	Other : pyr		0136-5L
2103.00						0138
			55	S/Sst : lt or, f, l		0138-3L
			40	Sh/Clst: blk to brn blk, carb		0138-2L
	52.60		5	Sh/Clst: lt gy, lt gn gy, lt brn gy		0138-1L
			tr	Ca : pl y brn, dol, hd		0138-4L
			tr	Other : pyr		0138-5L
2106.00						0139
			95	Sh/Clst: blk to brn blk, carb		0139-2L
			5	S/Sst : lt or, f, l		0139-3L
	67.30		tr	Sh/Clst: lt gy, lt gn gy, lt brn gy		0139-1L
			tr	Ca : pl y brn, dol, hd		0139-4L
			tr	Other : pyr		0139-5L
2109.00						0140
			85	Sh/Clst: blk to brn blk, carb		0140-2L
			10	S/Sst : lt or, f, l		0140-3L
	40.60		5	Sh/Clst: lt gy, lt gn gy, lt brn gy		0140-1L
			tr	Ca : pl y brn, dol, hd		0140-4L
			tr	Other : pyr		0140-5L

Table 3: Lithology description for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2112.00						0141
	34.10		35	Sh/Clst: blk to brn blk, carb		0141-2L
			30	S/Sst : lt or, f, l		0141-3L
			30	Ca : pl y brn, dol, hd		0141-4L
			5	Sh/Clst: lt gy, lt gn gy, lt brn gy		0141-1L
			tr	Other : pyr		0141-5L
2115.00						0142
			45	Ca : pl y brn, dol, hd		0142-4L
	39.30		35	Sh/Clst: blk to brn blk, carb		0142-2L
			10	Sh/Clst: lt gy, lt gn gy, lt brn gy		0142-1L
			10	S/Sst : lt or, f, l		0142-3L
			tr	Other : pyr		0142-5L

Table 4: Thermal Maturity Data for well NOCS 6608/10-6

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Depth unit of measure: m

Depth Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1425.00 cut bulk	0.27	23	0.03	-	4.0(??)	-	0004-0B
1515.00 cut bulk	0.23	22	0.04	-	3.5-4.0	-	0020-0B
1610.00 cut bulk	0.25	22	0.05	-	3.5-4.0	-	0038-0B
1690.00 cut bulk	0.37	6	0.04	-	NDP/4.0-5.0(??)	346	0054-0B
1752.00 cut bulk	0.29	3	0.02	-	4.0-4.5	359	0073-0B
1815.00 cut bulk	0.28	23	0.05	-	NDP/4.5-5.0(??)	361	0093-0B
1857.56 ccp bulk	0.36	13	0.07	-	4.5-5.0	330	0146-0B
1863.65 ccp bulk	-	-	0.00	-	5.0(?)	333	0147-0B
1891.37 ccp bulk	0.33	25	0.03	-	-	409	0151-0B
1907.50 ccp bulk	0.33	25	0.04	-	-	414	0154-0B
1968.46 ccp bulk	0.38	23	0.04	-	-	419	0161-0B
2016.00 cut bulk	0.33	24	0.04	-	5.0	410	0111-0B
2061.00 cut bulk	0.31	25	0.05	-	5.0	415	0124-0B
2106.00 cut bulk	0.31	24	0.04	-	5.0-5.5(?)	411	0139-0B

Table 5A: Rock-Eval table for well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1690.00	cut		Sh/Clst: lt ol gy to ol gy, lt gy to m gy, pl y brn, lt y gn, brn blk	0.86	4.59	-	-	1.06	433	-	5.5	0.16	346	0054-2L
1752.00	cut		Sh/Clst: dsk y brn to drk y brn, blk, lt gy to m gy	0.99	7.94	-	-	1.20	662	-	8.9	0.11	359	0073-1L
1797.00	cut		Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.11	9.80	-	-	1.21	810	-	10.9	0.10	360	0087-2L
1800.00	cut		Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.38	9.26	-	-	1.09	850	-	10.6	0.13	355	0088-2L
1803.00	cut		Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.30	9.55	-	-	1.14	838	-	10.9	0.12	357	0089-2L
1806.00	cut		Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.07	7.69	-	-	1.20	641	-	8.8	0.12	355	0090-2L
1809.00	cut		Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.15	8.54	-	-	1.04	821	-	9.7	0.12	357	0091-2L
1812.00	cut		Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.07	8.70	-	-	1.09	798	-	9.8	0.11	362	0092-2L

Table 5A: Rock-Eval table for well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1815.00	cut	Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.03	9.92	-	-	1.07	927	-	10.9	0.09	361	0093-2L
1818.00	cut	Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.05	10.30	-	-	1.19	866	-	11.4	0.09	360	0094-2L
1821.00	cut	Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.23	7.68	-	-	1.18	651	-	8.9	0.14	354	0095-2L
1824.00	cut	Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.28	8.27	-	-	1.15	719	-	9.6	0.13	357	0096-2L
1827.00	cut	Sh/Clst:	dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.31	8.59	-	-	1.31	656	-	9.9	0.13	361	0097-2L
1830.52	ccp	bulk		39.11	11.01	-	-	-	-	-	50.1	0.78	285	0143-0B
1844.97	ccp	bulk		57.06	20.09	-	-	-	-	-	77.2	0.74	285	0144-0B
1853.16	ccp	bulk		30.10	8.32	-	-	-	-	-	38.4	0.78	409	0145-0B
1857.56	ccp	bulk		0.53	1.28	-	-	0.66	194	-	1.8	0.29	330	0146-0B
1863.65	ccp	bulk		0.52	1.73	-	-	1.51	115	-	2.2	0.23	333	0147-0B
1867.30	ccp	bulk		27.40	9.26	-	-	-	-	-	36.7	0.75	412	0148-0B

Table 5A: Rock-Eval table for well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1871.54	ccp		bulk	19.96	7.67	-	-	-	-	-	27.6	0.72	418	0149-0B
1883.90	ccp		bulk	55.96	17.95	-	-	-	-	-	73.9	0.76	317	0150-0B
1891.37	ccp		bulk	21.28	113.95	-	-	55.40	206	-	135.2	0.16	409	0151-0B
1892.48	ccp		bulk	35.81	10.55	-	-	-	-	-	46.4	0.77	285	0152-0B
1905.90	ccp		bulk	27.23	106.78	-	-	61.10	175	-	134.0	0.20	414	0153-0B
1907.50	ccp		bulk	22.69	104.92	-	-	52.20	201	-	127.6	0.18	414	0154-0B
1913.90	ccp		bulk	69.21	26.40	-	-	-	-	-	95.6	0.72	285	0155-0B
1922.80	ccp		bulk	60.48	24.12	-	-	-	-	-	84.6	0.71	285	0156-0B
1924.65	ccp		bulk	36.19	9.90	-	-	-	-	-	46.1	0.79	285	0157-0B
1949.52	ccp		bulk	45.35	13.22	-	-	-	-	-	58.6	0.77	285	0158-0B
1960.67	ccp		bulk	52.89	17.90	-	-	-	-	-	70.8	0.75	285	0159-0B
1967.68	ccp		bulk	5.72	62.93	-	-	29.30	215	-	68.7	0.08	415	0160-0B
1968.46	ccp		bulk	3.37	44.85	-	-	28.30	158	-	48.2	0.07	419	0161-0B
1970.81	ccp		bulk	22.79	7.79	-	-	-	-	-	30.6	0.75	418	0162-0B
1974.00	cut		Sh/Clst: blk to brn blk	5.17	76.52	-	-	56.50	135	-	81.7	0.06	416	0098-2L
1977.00	cut		Sh/Clst: blk to brn blk	3.10	67.36	-	-	54.90	123	-	70.5	0.04	417	0099-2L

Table 5A: Rock-Eval table for well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1980.00	cut		Sh/Clst: blk to brn blk	3.87	71.70	-	-	49.50	145	-	75.6	0.05	417	0100-2L
1983.00	cut		Sh/Clst: blk to brn blk	3.62	70.01	-	-	46.70	150	-	73.6	0.05	416	0101-2L
1989.00	cut		Sh/Clst: blk to brn blk	1.67	73.84	-	-	43.00	172	-	75.5	0.02	417	0103-2L
1998.00	cut		Sh/Clst: blk to brn blk	2.81	67.52	-	-	39.00	173	-	70.3	0.04	417	0105-2L
2001.00	cut		Sh/Clst: blk to brn blk	2.52	78.56	-	-	56.70	139	-	81.1	0.03	415	0106-2L
2007.00	cut		Sh/Clst: blk to brn blk	7.04	91.82	-	-	60.40	152	-	98.9	0.07	407	0108-2L
2013.00	cut		Sh/Clst: blk to brn blk	2.10	70.20	-	-	54.00	130	-	72.3	0.03	411	0110-2L
2016.00	cut		Sh/Clst: blk to brn blk	4.49	70.46	-	-	55.40	127	-	74.9	0.06	410	0111-2L
2049.00	cut		Sh/Clst: blk to brn blk	2.54	80.40	-	-	55.50	145	-	82.9	0.03	408	0120-2L
2052.00	cut		Sh/Clst: blk to brn blk	4.30	76.69	-	-	51.60	149	-	81.0	0.05	409	0121-2L
2055.00	cut		Sh/Clst: blk to brn blk	2.40	77.13	-	-	56.00	138	-	79.5	0.03	412	0122-2L
2058.00	cut		Sh/Clst: blk to brn blk	5.14	93.17	-	-	58.00	161	-	98.3	0.05	413	0123-2L
2061.00	cut		Sh/Clst: blk to brn blk	2.27	68.61	-	-	42.00	163	-	70.9	0.03	415	0124-2L
2064.00	cut		Sh/Clst: blk to brn blk	3.06	63.94	-	-	41.20	155	-	67.0	0.05	417	0125-2L
2067.00	cut		Sh/Clst: blk to brn blk	3.85	76.10	-	-	41.60	183	-	79.9	0.05	415	0126-2L
2070.00	cut		Sh/Clst: blk to brn blk	0.63	36.78	-	-	24.30	151	-	37.4	0.02	416	0127-2L

Table 5A: Rock-Eval table for well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2073.00	cut		Sh/Clst: blk to brn blk	1.69	45.16	-	-	28.10	161	-	46.8	0.04	417	0128-2L
2085.00	cut		Sh/Clst: blk to brn blk	1.55	88.28	-	-	50.20	176	-	89.8	0.02	416	0132-2L
2088.00	cut		Sh/Clst: blk to brn blk	2.58	86.36	-	-	43.80	197	-	88.9	0.03	414	0133-2L
2091.00	cut		Sh/Clst: blk to brn blk	2.03	79.26	-	-	41.50	191	-	81.3	0.02	417	0134-2L
2094.00	cut		Sh/Clst: blk to brn blk	1.87	73.28	-	-	36.20	202	-	75.2	0.02	420	0135-2L
2097.00	cut		Sh/Clst: blk to brn blk	1.42	72.99	-	-	35.10	208	-	74.4	0.02	418	0136-2L
2103.00	cut		Sh/Clst: blk to brn blk	2.79	100.93	-	-	52.60	192	-	103.7	0.03	418	0138-2L
2106.00	cut		Sh/Clst: blk to brn blk	4.77	131.59	-	-	67.30	196	-	136.4	0.03	411	0139-2L
2109.00	cut		Sh/Clst: blk to brn blk	2.26	79.71	-	-	40.60	196	-	82.0	0.03	418	0140-2L
2112.00	cut		Sh/Clst: blk to brn blk	1.69	56.68	-	-	34.10	166	-	58.4	0.03	415	0141-2L
2115.00	cut		Sh/Clst: blk to brn blk	1.10	75.25	-	-	39.30	191	-	76.3	0.01	414	0142-2L



Table 5B: Rock-Eval table for well SVALBARD ROCK-1 (SR-1)

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1.00	n/a		bulk	1.10	5.30	-	-	-	-	-	6.4	0.17	437	0226-0B
2.00	n/a		bulk	1.06	5.33	-	-	-	-	-	6.4	0.17	437	0227-0B

Table 7: Visual Kerogen Composition Data for well NOCS 6608/10-6

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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		
1425.00	cut	Sh/Clst	75	*		5	*	*			5	*	*	**	5	*	**		10	*	**	4.0(??)	0004-1L
1515.00	cut	Sh/Clst	70	*		10	*	*			5	*	*	**	15	*	**		TR	*	**	3.5-4.0	0020-1L
1610.00	cut	Sh/Clst	65	*	**	10	*	*			15	*	*	**	5	*	**		5	*	**	3.5-4.0	0038-1L
1690.00	cut	Sh/Clst	NDP	*		NDP	*	*			NDP	*	*	**	NDP		*		NDP	*		NDP/4.0-5.0(??)	0054-2L
1752.00	cut	Sh/Clst	75	*	**	TR	*	*			10	**	*	**	10	*	**		5	*	**	4.0-4.5	0073-1L
1815.00	cut	Sh/Clst	NDP	*		NDP	*	*			NDP	*	*	**	NDP		*		NDP	*		NDP/4.5-5.0(??)	0093-2L
1857.56	ccp	Sh/Clst	60	*	**	5	*				10	*	*	**	15	*	*		10	*	*	4.5-5.0	0146-1L
1863.65	ccp	Sh/Clst	60	*		TR	*				10	*	*	**	15	*	**		15	*	**	5.0(?)	0147-1L
2016.00	cut	Sh/Clst	10	*	**	TR	?				15	*	**	*	70	**	*		5	**	*	5.0	0111-2L
2061.00	cut	Sh/Clst	15	*		5	*				15	**	*	*	55	**	*		10	**	*	5.0	0124-2L
2106.00	cut	Sh/Clst	TR	*		TR	*				5	*	**	*	85	**	*		10	**	*	5.0-5.5(?)	0139-2L

Table 8a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
1690.00	cut	Sh/Clst: lt ol gy to ol gy, lt gy to m gy, pl y brn, lt y gn, brn blk	0.6	6.8	-	-	-	-	-	-	-	0054-2L
1752.00	cut	Sh/Clst: dsk y brn to drk y brn, blk, lt gy to m gy	1.2	19.3	-	-	-	-	-	-	-	0073-1L
1797.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	1.1	25.2	-	-	-	-	-	-	-	0087-2L
1818.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	4.0	28.0	-	-	-	-	-	-	-	0094-2L
1830.52	ccp	bulk	7.4	393.4	212.8	126.8	3.1	50.7	339.6	53.8	3.84	0143-0B
1844.97	ccp	bulk	7.3	496.4	266.7	153.1	9.7	66.9	419.8	76.6	5.38	0144-0B
1853.16	ccp	bulk	7.0	303.3	151.1	89.5	2.3	60.4	240.6	62.7	3.47	0145-0B
1867.30	ccp	bulk	7.0	291.0	138.5	94.1	4.8	53.6	232.6	58.4	3.55	0148-0B
1871.54	ccp	bulk	7.1	238.8	113.1	80.8	2.3	42.6	193.8	45.0	2.73	0149-0B
1883.90	ccp	bulk	8.0	604.4	309.0	209.4	12.4	73.6	518.4	86.0	4.84	0150-0B
1885.00	ccp	bulk	4.0	365.8	-	-	-	-	-	-	-	0163-0B
1891.37	ccp	Sh/Clst: blk	3.0	136.5	13.2	45.4	45.3	32.6	58.6	77.9	60.40	0151-1L

Table 8a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6608/10-6

Page: 2

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
1892.48	ccp	bulk	7.1	249.0	124.3	83.0	1.8	39.8	207.4	41.6	2.27	0152-0B
1907.50	ccp	Sh/Clst: blk	3.1	141.6	21.4	36.1	55.4	28.7	57.5	84.1	53.20	0154-1L
1913.90	ccp	bulk	7.1	709.1	317.0	282.2	4.2	105.7	599.2	109.9	6.83	0155-0B
1918.00	ccp	bulk	3.4	295.1	-	-	-	-	-	-	-	0164-0B
1922.80	ccp	bulk	7.1	596.0	300.8	188.3	4.4	102.5	489.1	106.9	5.79	0156-0B
1924.65	ccp	bulk	8.1	433.6	182.5	142.7	8.8	99.6	325.2	108.4	3.28	0157-0B
1925.00	ccp	bulk	4.4	340.9	-	-	-	-	-	-	-	0165-0B
1943.00	ccp	bulk	4.4	205.2	-	-	-	-	-	-	-	0166-0B
1949.52	ccp	bulk	7.0	448.5	241.1	136.9	2.5	68.0	377.9	70.6	3.75	0158-0B
1960.67	ccp	bulk	7.0	444.3	235.0	137.2	8.8	63.3	372.2	72.1	3.86	0159-0B
1967.68	ccp	Sh/Clst: blk	3.2	66.8	4.8	21.6	20.1	20.3	26.4	40.4	29.00	0160-1L
1970.81	ccp	bulk	7.1	195.8	95.4	62.9	0.9	36.6	158.3	37.5	2.52	0162-0B
1974.00	cut	Sh/Clst: blk to brn blk	2.6	69.0	1.1	3.6	11.6	52.8	4.6	64.4	51.80	0098-2L
1989.00	cut	Sh/Clst: blk to brn blk	2.9	45.0	0.9	2.7	13.3	28.1	3.6	41.4	50.10	0103-2L
2007.00	cut	Sh/Clst: blk to brn blk	3.0	84.4	1.4	4.2	23.0	55.9	5.6	78.8	57.00	0108-2L
2049.00	cut	Sh/Clst: blk to brn blk	1.4	13.8	0.7	0.7	4.1	8.2	1.5	12.3	31.50	0120-2L

Table 8a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6608/10-6

Page: 3

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC (e) (%)	Sample
2058.00	cut	Sh/Clst: blk to brn blk	2.9	52.4	1.2	1.9	11.8	37.5	3.1	49.3	37.80	0123-2L
2070.00	cut	Sh/Clst: blk to brn blk	0.6	5.8	0.3	0.3	3.0	2.1	0.7	5.1	31.60	0127-2L
2085.00	cut	Sh/Clst: blk to brn blk	2.8	52.9	1.0	2.0	20.0	30.0	2.9	50.0	51.20	0132-2L
2097.00	cut	Sh/Clst: blk to brn blk	3.0	46.4	1.0	0.7	12.5	32.2	1.7	44.7	40.90	0136-2L
2106.00	cut	Sh/Clst: blk to brn blk	3.1	106.3	1.5	2.9	45.4	56.5	4.4	101.9	62.80	0139-2L
2115.00	cut	Sh/Clst: blk to brn blk	3.0	46.5	0.9	1.2	17.8	26.7	2.0	44.5	45.20	0142-2L

Table 8b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1690.00	cut	Sh/Clst: lt ol gy to ol gy, lt gy to m gy, pl y brn, lt y gn, brn blk	12363	-	-	-	-	-	-	0054-2L
1752.00	cut	Sh/Clst: dsk y brn to drk y brn, blk, lt gy to m gy	16218	-	-	-	-	-	-	0073-1L
1797.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	23333	-	-	-	-	-	-	0087-2L
1818.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	7000	-	-	-	-	-	-	0094-2L
1830.52	ccp	bulk	53378	28878	17202	416	6880	46081	7297	0143-0B
1844.97	ccp	bulk	68280	36685	21053	1339	9202	57738	10542	0144-0B
1853.16	ccp	bulk	43082	21462	12715	319	8584	34177	8904	0145-0B
1867.30	ccp	bulk	41394	19701	13391	681	7619	33093	8300	0148-0B
1871.54	ccp	bulk	33539	15881	11343	327	5987	27225	6314	0149-0B
1883.90	ccp	bulk	75644	38674	26207	1553	9208	64882	10762	0150-0B
1885.00	ccp	bulk	92373	-	-	-	-	-	-	0163-0B
1891.37	ccp	Sh/Clst: blk	44754	4336	14878	14846	10691	19215	25538	0151-1L

Table 8b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1892.48	ccp	bulk	34873	17411	11629	252	5579	29041	5832	0152-0B
1907.50	ccp	Sh/Clst: blk	45974	6948	11712	17982	9330	18660	27313	0154-1L
1913.90	ccp	bulk	100155	44772	39860	597	14924	84633	15521	0155-0B
1918.00	ccp	bulk	86286	-	-	-	-	-	-	0164-0B
1922.80	ccp	bulk	84539	42667	26706	626	14538	69373	15165	0156-0B
1924.65	ccp	bulk	53464	22506	17595	1086	12276	40102	13362	0157-0B
1925.00	ccp	bulk	76952	-	-	-	-	-	-	0165-0B
1943.00	ccp	bulk	46956	-	-	-	-	-	-	0166-0B
1949.52	ccp	bulk	63980	34387	19527	362	9702	53915	10064	0158-0B
1960.67	ccp	bulk	63110	33381	19491	1250	8987	52872	10237	0159-0B
1967.68	ccp	Sh/Clst: blk	21072	1521	6814	6349	6388	8335	12737	0160-1L
1970.81	ccp	bulk	27538	13417	8840	132	5148	22257	5280	0162-0B
1974.00	cut	Sh/Clst: blk to brn blk	26744	423	1377	4495	20447	1801	24943	0098-2L
1989.00	cut	Sh/Clst: blk to brn blk	15734	313	939	4666	9814	1252	14481	0103-2L
2007.00	cut	Sh/Clst: blk to brn blk	27854	460	1382	7575	18435	1843	26011	0108-2L

Table 8b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2049.00	cut	Sh/Clst: blk to brn blk	10072	542	542	3021	5966	1084	8988	0120-2L
2058.00	cut	Sh/Clst: blk to brn blk	18321	405	676	4121	13118	1081	17239	0123-2L
2070.00	cut	Sh/Clst: blk to brn blk	9354	564	564	4838	3387	1129	8225	0127-2L
2085.00	cut	Sh/Clst: blk to brn blk	18626	344	688	7036	10557	1032	17593	0132-2L
2097.00	cut	Sh/Clst: blk to brn blk	15263	341	227	4099	10593	569	14693	0136-2L
2106.00	cut	Sh/Clst: blk to brn blk	34625	475	951	14795	18402	1427	33197	0139-2L
2115.00	cut	Sh/Clst: blk to brn blk	15296	286	381	5849	8778	667	14628	0142-2L



Table 8c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1690.00	cut	Sh/Clst: lt ol gy to ol gy, lt gy to m gy, pl y brn, lt y gn, brn blk	-	-	-	-	-	-	-	0054-2L
1752.00	cut	Sh/Clst: dsk y brn to drk y brn, blk, lt gy to m gy	-	-	-	-	-	-	-	0073-1L
1797.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	-	-	-	-	-	-	-	0087-2L
1818.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	-	-	-	-	-	-	-	0094-2L
1830.52	ccp	bulk	1390.07	752.06	447.98	10.84	179.19	1200.03	190.04	0143-0B
1844.97	ccp	bulk	1269.16	681.88	391.32	24.90	171.06	1073.20	195.95	0144-0B
1853.16	ccp	bulk	1241.57	618.51	366.44	9.22	247.40	984.94	256.62	0145-0B
1867.30	ccp	bulk	1166.03	554.98	377.21	19.21	214.62	932.20	233.83	0148-0B
1871.54	ccp	bulk	1228.55	581.74	415.53	11.98	219.30	997.26	231.29	0149-0B
1883.90	ccp	bulk	1562.90	799.06	541.49	32.11	190.25	1340.54	222.36	0150-0B
1885.00	ccp	bulk	-	-	-	-	-	-	-	0163-0B
1891.37	ccp	Sh/Clst: blk	74.10	7.18	24.63	24.58	17.70	31.81	42.28	0151-1L

Table 8c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6608/10-6

Page: 3

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2049.00	cut	Sh/Clst: blk to brn blk	31.98	1.72	1.72	9.59	18.94	3.44	28.53	0120-2L
2058.00	cut	Sh/Clst: blk to brn blk	48.47	1.07	1.79	10.90	34.70	2.86	45.61	0123-2L
2070.00	cut	Sh/Clst: blk to brn blk	29.60	1.79	1.79	15.31	10.72	3.57	26.03	0127-2L
2085.00	cut	Sh/Clst: blk to brn blk	36.38	0.67	1.34	13.74	20.62	2.02	34.36	0132-2L
2097.00	cut	Sh/Clst: blk to brn blk	37.32	0.84	0.56	10.02	25.90	1.39	35.93	0136-2L
2106.00	cut	Sh/Clst: blk to brn blk	55.14	0.76	1.52	23.56	29.30	2.27	52.86	0139-2L
2115.00	cut	Sh/Clst: blk to brn blk	33.84	0.63	0.84	12.94	19.42	1.48	32.36	0142-2L

Table 8d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
1690.00	cut	Sh/Clst: lt ol gy to ol gy, lt gy to m gy, pl y brn, lt y gn, brn blk	-	-	-	-	-	-	-	-	-	0054-2L
1752.00	cut	Sh/Clst: dsk y brn to drk y brn, blk, lt gy to m gy	-	-	-	-	-	-	-	-	-	0073-1L
1797.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	-	-	-	-	-	-	-	-	-	0087-2L
1818.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	-	-	-	-	-	-	-	-	-	0094-2L
1830.52	ccp	bulk	54.10	32.23	0.78	12.89	100.00	86.33	13.67	2.73	0.98	0143-0B
1844.97	ccp	bulk	53.73	30.83	1.96	13.48	100.00	84.56	15.44	2.91	0.98	0144-0B
1853.16	ccp	bulk	49.82	29.51	0.74	19.93	100.00	79.33	20.67	2.30	0.98	0145-0B
1867.30	ccp	bulk	47.60	32.35	1.65	18.41	100.00	79.95	20.05	1.93	0.97	0148-0B
1871.54	ccp	bulk	47.35	33.82	0.98	17.85	100.00	81.17	18.83	1.60	0.97	0149-0B
1883.90	ccp	bulk	51.13	34.65	2.05	12.17	100.00	85.77	14.23	1.83	0.95	0150-0B
1885.00	ccp	bulk	-	-	-	-	-	-	-	-	-	0163-0B
1891.37	ccp	Sh/Clst: blk	9.69	33.25	33.17	23.89	100.00	42.94	57.06	1.35	1.00	0151-1L

Table 8d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6608/10-6

Page: 2

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
1892.48	ccp	bulk	49.93	33.35	0.73	16.00	100.00	83.28	16.72	1.54	0.96	0152-0B
1907.50	ccp	Sh/Clst: blk	15.11	25.48	39.12	20.29	100.00	40.59	59.41	1.44	1.07	0154-1L
1913.90	ccp	bulk	44.70	39.80	0.60	14.90	100.00	84.50	15.50	2.58	0.98	0155-0B
1918.00	ccp	bulk	-	-	-	-	-	-	-	-	-	0164-0B
1922.80	ccp	bulk	50.47	31.59	0.74	17.20	100.00	82.06	17.94	2.23	0.97	0156-0B
1924.65	ccp	bulk	42.10	32.91	2.03	22.96	100.00	75.01	24.99	2.14	0.98	0157-0B
1925.00	ccp	bulk	-	-	-	-	-	-	-	-	-	0165-0B
1943.00	ccp	bulk	-	-	-	-	-	-	-	-	-	0166-0B
1949.52	ccp	bulk	53.75	30.52	0.57	15.16	100.00	84.27	15.73	2.50	0.98	0158-0B
1960.67	ccp	bulk	52.89	30.88	1.98	14.24	100.00	83.78	16.22	2.04	0.97	0159-0B
1967.68	ccp	Sh/Clst: blk	7.22	32.34	30.13	30.32	100.00	39.55	60.45	1.27	1.01	0160-1L
1970.81	ccp	bulk	48.72	32.10	0.48	18.70	100.00	80.82	19.18	1.29	0.97	0162-0B
1974.00	cut	Sh/Clst: blk to brn blk	1.58	5.15	16.81	76.46	100.00	6.73	93.27	1.18	1.01	0098-2L
1989.00	cut	Sh/Clst: blk to brn blk	1.99	5.97	29.66	62.38	100.00	7.96	92.04	1.37	1.04	0103-2L
2007.00	cut	Sh/Clst: blk to brn blk	1.65	4.96	27.20	66.19	100.00	6.62	93.38	1.29	1.01	0108-2L
2049.00	cut	Sh/Clst: blk to brn blk	5.38	5.38	30.00	59.23	100.00	10.77	89.23	1.70	1.06	0120-2L

Table 8d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov, MPLC	Recov, Asph	Sample
2058.00	cut	Sh/Clst: blk to brn blk	2.21	3.69	22.49	71.60	100.00	5.91	94.09	1.37	1.03	0123-2L
2070.00	cut	Sh/Clst: blk to brn blk	6.03	6.03	51.72	36.21	100.00	12.07	87.93	1.85	1.29	0127-2L
2085.00	cut	Sh/Clst: blk to brn blk	1.85	3.70	37.78	56.68	100.00	5.54	94.46	1.39	1.02	0132-2L
2097.00	cut	Sh/Clst: blk to brn blk	2.24	1.49	26.86	69.41	100.00	3.73	96.27	1.35	1.02	0136-2L
2106.00	cut	Sh/Clst: blk to brn blk	1.37	2.75	42.73	53.15	100.00	4.12	95.88	1.34	1.01	0139-2L
2115.00	cut	Sh/Clst: blk to brn blk	1.87	2.50	38.24	57.39	100.00	4.37	95.63	1.75	1.03	0142-2L

Table 8e: MPLC Bulk Composition: Ratios for well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
1690.00	cut	Sh/Clst: lt ol gy to ol gy, lt gy to m gy, pl y brn, lt y gn, brn blk	-	-	-	0054-2L
1752.00	cut	Sh/Clst: dsk y brn to drk y brn, blk, lt gy to m gy	-	-	-	0073-1L
1797.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	-	-	-	0087-2L
1818.00	cut	Sh/Clst: dsk y brn to drk y brn, lt gy to m gy, blk, lt gn gy	-	-	-	0094-2L
1830.52	ccp	bulk	1.68	6.31	0.06	0143-0B
1844.97	ccp	bulk	1.74	5.48	0.15	0144-0B
1853.16	ccp	bulk	1.69	3.84	0.04	0145-0B
1867.30	ccp	bulk	1.47	3.99	0.09	0148-0B
1871.54	ccp	bulk	1.40	4.31	0.05	0149-0B
1883.90	ccp	bulk	1.48	6.03	0.17	0150-0B
1885.00	ccp	bulk	-	-	-	0163-0B
1891.37	ccp	Sh/Clst: blk	0.29	0.75	1.39	0151-1L

Table 8e: MPLC Bulk Composition: Ratios for well NOCS 6608/10-6

Page: 2

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
1892.48	ccp	bulk	1.50	4.98	0.05	0152-0B
1907.50	ccp	Sh/Clst: blk	0.59	0.68	1.93	0154-1L
1913.90	ccp	bulk	1.12	5.45	0.04	0155-0B
1918.00	ccp	bulk	-	-	-	0164-0B
1922.80	ccp	bulk	1.60	4.57	0.04	0156-0B
1924.65	ccp	bulk	1.28	3.00	0.09	0157-0B
1925.00	ccp	bulk	-	-	-	0165-0B
1943.00	ccp	bulk	-	-	-	0166-0B
1949.52	ccp	bulk	1.76	5.36	0.04	0158-0B
1960.67	ccp	bulk	1.71	5.16	0.14	0159-0B
1967.68	ccp	Sh/Clst: blk	0.22	0.65	0.99	0160-1L
1970.81	ccp	bulk	1.52	4.21	0.03	0162-0B
1974.00	cut	Sh/Clst: blk to brn blk	0.31	0.07	0.22	0098-2L
1989.00	cut	Sh/Clst: blk to brn blk	0.33	0.09	0.48	0103-2L
2007.00	cut	Sh/Clst: blk to brn blk	0.33	0.07	0.41	0108-2L

Table 8e: MPLC Bulk Composition: Ratios for well NOCS 6608/10-6

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
2049.00	cut	Sh/Clst: blk to brn blk	1.00	0.12	0.51	0120-2L
2058.00	cut	Sh/Clst: blk to brn blk	0.60	0.06	0.31	0123-2L
2070.00	cut	Sh/Clst: blk to brn blk	1.00	0.14	1.43	0127-2L
2085.00	cut	Sh/Clst: blk to brn blk	0.50	0.06	0.67	0132-2L
2097.00	cut	Sh/Clst: blk to brn blk	1.50	0.04	0.39	0136-2L
2106.00	cut	Sh/Clst: blk to brn blk	0.50	0.04	0.80	0139-2L
2115.00	cut	Sh/Clst: blk to brn blk	0.75	0.05	0.67	0142-2L



Table 9a<sup>1</sup> Peak areas Saturated Hydrocarbon GC data

Depth	Sample type	Desc	%Lithology	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20	nC21	nC22
1830.52	ccp	bulk fraction		2714964	2674240	1182906	2788179	2515552	2628625	1247487	2727867	2292556	1970196	1790862
1844.97	ccp	bulk fraction		2427039	2481606	1100621	2660089	2159239	2469943	1171313	2537530	2074858	1838711	1686693
1853.16	ccp	bulk fraction		987988	947866	405484	989778	799480	944759	444964	979362	853375	731902	678331
1867.3	ccp	bulk fraction		104908	138946	287982	192043	636632	216080	414989	144499	169567	125385	100744
1871.54	ccp	bulk fraction		173459	216073	481832	322806	1083513	355811	718925	259338	275655	186791	144550
1883.9	ccp	bulk fraction		284263	266250	215598	305603	367954	287819	229870	267162	253138	192511	162499
1891.37	ccp	shale/claystone	100	124196	165415	244207	199311	312034	151843	249270	90746	135020	62931	44660
1892.48	ccp	bulk fraction		283237	269176	250076	327832	459754	316065	318373	343632	248646	185318	144492
1907.5	ccp	shale/claystone	100	28429	100545	199779	137356	227816	129215	219997	102396	90474	40272	24524
1913.9	ccp	bulk fraction		96414	127016	223423	165456	384511	160739	307019	133400	148020	79556	58440
1922.8	ccp	bulk fraction		94492	108089	186683	144097	324546	138723	257806	99888	101338	57306	41531
1924.65	ccp	bulk fraction		106844	127117	222826	172105	400879	148226	299605	134673	129151	75123	45043
1949.52	ccp	bulk fraction		271068	276206	358023	369833	690758	421910	454259	482086	370374	280346	233326
1960.67	ccp	bulk fraction		97997	144334	285032	227943	654252	247551	422974	219372	210440	157713	125240
1967.68	ccp	shale/claystone	100	41885	133602	182971	221482	284671	184185	178009	218360	150012	88345	52094
1970.81	ccp	bulk fraction		54317	53984	160002	144871	182206	137412	139592	99788	96065	37188	18192
1974	cut	shale/claystone	25	7415	37907	27603	48739	49276	63646	37740	30923	30614	22155	25070
1989	cut	shale/claystone	15	0	17426	18175	31629	34814	53912	32678	27460	29040	20660	24401
2007	cut	shale/claystone	50	35306	75154	39959	58178	68643	39218	39940	37063	28248	18030	23240
2049	cut	shale/claystone	15	0	0	0	12621	21851	40299	30790	21518	27888	15721	22388
2058	cut	shale/claystone	50	710	33345	20438	39516	53022	72253	42262	40159	47216	31077	42531
2070	cut	shale/claystone	15	0	0	0	13763	19157	38608	25661	27209	27645	17749	20119
2085	cut	shale/claystone	95	11688	46361	30413	46807	56766	81750	58310	41453	35848	22963	33480
2097	cut	shale/claystone	40	0	0	0	7865	16697	27032	19432	23355	20639	13128	19489
2106	cut	shale/claystone	95	8706	41271	28763	40899	91448	65462	43735	51641	43988	33852	41276
2115	cut	shale/claystone	35	24294	122821	58113	90681	81095	85037	52307	41896	33307	18306	27689

Table 9a<sup>1</sup> Peak areas Saturated Hydrocarbon GC data

Depth	Sample type	Desc	%Lithology	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
1830.52	ccp	bulk fraction		1658355	1496281	1301564	1025254	960221	673461	634097	576066	409894	302250	405629	434516	T92/0143-0
1844.97	ccp	bulk fraction		1538982	1354683	1152354	898410	819250	567058	503251	474377	302128	235018	329451	395507	T92/0144-0
1853.16	ccp	bulk fraction		633178	564378	482311	386144	383929	258714	254977	214547	149560	107285	136325	145774	T92/0145-0
1867.3	ccp	bulk fraction		114933	100949	102834	67008	76161	46153	46480	34612	29369	39853	111843	147024	T92/0148-0
1871.54	ccp	bulk fraction		173277	163496	165644	110687	135254	64634	77698	72720	55065	61962	181238	225231	T92/0149-0
1883.9	ccp	bulk fraction		159857	142246	125120	95379	107284	61321	63608	50477	40271	39292	104888	129695	T92/0150-0
1891.37	ccp	shale/claystone	100	38424	47794	37011	33469	48070	9751	25257	30675	0	0	0	0	T92/0151-1
1892.48	ccp	bulk fraction		153566	132955	128292	92246	105861	54039	71433	44597	40920	47618	135694	171516	T92/0152-0
1907.5	ccp	shale/claystone	100	32621	37825	32521	23659	27612	0	0	0	0	0	0	0	T92/0154-1
1913.9	ccp	bulk fraction		76984	55361	61465	38817	66377	21255	38235	36047	22433	29006	123699	155360	T92/0155-0
1922.8	ccp	bulk fraction		61898	45360	49879	26309	47988	14248	24957	34718	24323	27720	109065	141108	T92/0156-0
1924.65	ccp	bulk fraction		60108	51069	50219	37930	62834	18329	33974	65926	21259	31114	130016	172930	T92/0157-0
1949.52	ccp	bulk fraction		236347	217348	209173	158328	158504	95115	104664	75006	63589	54954	136098	155417	T92/0158-0
1960.67	ccp	bulk fraction		139760	131003	123246	92502	103882	54804	67800	59634	41291	48017	108737	133160	T92/0159-0
1967.68	ccp	shale/claystone	100	48054	45082	48575	32119	58573	13826	0	0	0	0	0	0	T92/0160-1
1970.81	ccp	bulk fraction		24055	27069	31094	33761	42900	17357	28774	57579	77367	28189	128412	169045	T92/0162-0
1974	cut	shale/claystone	25	29620	27258	36597	17241	23227	6628	16367	13160	16819	11099	15883	16485	T92/0098-2
1989	cut	shale/claystone	15	18490	20194	22883	14221	17042	4688	0	0	0	0	0	0	T92/0103-2
2007	cut	shale/claystone	50	25186	25864	32070	15764	28949	0	16456	0	0	0	0	0	T92/0108-2
2049	cut	shale/claystone	15	19862	17140	24702	10345	18214	0	0	0	0	0	0	0	T92/0120-2
2058	cut	shale/claystone	50	30449	39286	44609	20276	32856	7529	24135	20665	39487	10012	0	0	T92/0123-2
2070	cut	shale/claystone	15	17852	22002	17091	9256	11980	0	0	0	0	0	0	0	T92/0127-2
2085	cut	shale/claystone	95	16531	28275	36184	18607	22235	21158	29696	39019	0	0	0	0	T92/0132-2
2097	cut	shale/claystone	40	11487	19896	20542	10973	15185	0	0	0	0	0	0	0	T92/0136-2
2106	cut	shale/claystone	95	41125	39384	49492	25668	0	0	0	0	0	0	0	0	T92/0139-2
2115	cut	shale/claystone	35	15721	21618	26224	11395	21186	3762	0	0	0	0	0	0	T92/0142-2

Table 9a: Quantitative Analysis of Saturated Fraction for NOCS 6608/10-6

sample	nC15 mg/g sat	nC16 mg/g sat	iC18 mg/g sat	nC17 mg/g sat	Pr mg/g sat	nC18 mg/g sat	Ph mg/g sat	nC19 mg/g sat	nC20 mg/g sat	nC21 mg/g sat	nC22 mg/g sat	nC23 mg/g sat	nC24 mg/g sat	nC25 mg/g sat	nC26 mg/g sat	nC27 mg/g sat	nC28 mg/g sat	nC29 mg/g sat	nC30 mg/g sat	nC31 mg/g sat	nC32 mg/g sat	nC33 mg/g sat	nC34 mg/g sat
1830.52m	12.28	12.10	5.35	12.61	11.38	11.89	5.64	12.34	10.37	8.91	8.10	7.50	6.77	5.89	4.64	4.34	3.05	2.87	2.61	1.85	1.37	1.84	1.97
1844.97m	11.83	12.10	5.37	12.97	10.53	12.04	5.71	12.37	10.12	8.96	8.22	7.50	6.61	5.62	4.38	3.99	2.76	2.45	2.31	1.47	1.15	1.61	1.93
1853.16m	12.54	12.03	5.15	12.56	10.15	11.99	5.65	12.43	10.83	9.29	8.61	8.04	7.16	6.12	4.90	4.87	3.28	3.24	2.72	1.90	1.36	1.73	1.85
1867.30m	1.34	1.78	3.69	2.46	8.15	2.77	5.32	1.85	2.17	1.61	1.29	1.47	1.29	1.32	0.86	0.98	0.59	0.60	0.44	0.38	0.51	1.43	1.88
1871.54m	1.40	1.74	3.89	2.61	8.75	2.87	5.80	2.09	2.23	1.51	1.17	1.40	1.32	1.34	0.89	1.09	0.52	0.63	0.59	0.44	0.50	1.46	1.82
1883.90m	3.58	3.35	2.71	3.84	4.63	3.62	2.89	3.36	3.18	2.42	2.04	2.01	1.79	1.57	1.20	1.35	0.77	0.80	0.64	0.51	0.49	1.32	1.63
1891.37m	1.33	1.77	2.62	2.14	3.35	1.63	2.67	0.97	1.45	0.67	0.48	0.41	0.51	0.40	0.36	0.52	0.10	0.27	0.33	0.00	0.00	0.00	0.00
1892.48m	3.24	3.08	2.86	3.75	5.26	3.61	3.64	3.93	2.84	2.12	1.65	1.76	1.52	1.47	1.05	1.21	0.62	0.82	0.51	0.47	0.54	1.55	1.96
1907.50m	0.39	1.37	2.72	1.87	3.10	1.76	2.99	1.39	1.23	0.55	0.33	0.44	0.51	0.44	0.32	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1913.90m	1.26	1.66	2.92	2.16	5.03	2.10	4.02	1.74	1.94	1.04	0.76	1.01	0.72	0.80	0.51	0.87	0.28	0.50	0.47	0.29	0.38	1.62	2.03
1922.80m	1.36	1.56	2.69	2.08	4.68	2.00	3.72	1.44	1.46	0.83	0.60	0.89	0.65	0.72	0.38	0.69	0.21	0.36	0.50	0.35	0.40	1.57	2.04
1924.65m	1.29	1.54	2.70	2.08	4.85	1.79	3.62	1.63	1.56	0.91	0.54	0.73	0.62	0.61	0.46	0.76	0.22	0.41	0.80	0.26	0.38	1.57	2.09
1949.52m	3.42	3.49	4.52	4.67	8.72	5.32	5.73	6.08	4.67	3.54	2.94	2.98	2.74	2.64	2.00	2.00	1.20	1.32	0.95	0.80	0.69	1.72	1.96
1960.67m	1.27	1.88	3.71	2.96	8.50	3.22	5.50	2.85	2.74	2.05	1.63	1.82	1.70	1.60	1.20	1.35	0.71	0.88	0.78	0.54	0.62	1.41	1.73
1967.68m	0.47	1.49	2.04	2.47	3.18	2.06	1.99	2.44	1.68	0.99	0.58	0.54	0.50	0.54	0.36	0.65	0.15	0.00	0.00	0.00	0.00	0.00	0.00
1970.81m	0.76	0.76	2.25	2.04	2.56	1.93	1.96	1.40	1.35	0.52	0.26	0.34	0.38	0.44	0.47	0.60	0.24	0.40	0.81	1.09	0.40	1.81	2.38

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane/nC17	Phytane	CPI1	nC17	Sample
			nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
1830.52	ccp	bulk	0.90	2.02	1.90	0.47	1.08	0.74	0143-0B
1844.97	ccp	bulk	0.81	1.84	1.71	0.47	1.06	0.76	0144-0B
1853.16	ccp	bulk	0.81	1.80	1.72	0.47	1.10	0.72	0145-0B
1867.30	ccp	bulk	3.32	1.53	1.73	1.92	1.19	0.72	0148-0B
1871.54	ccp	bulk	3.36	1.51	1.66	2.02	1.23	0.70	0149-0B
1883.90	ccp	bulk	1.20	1.60	1.51	0.80	1.16	0.74	0150-0B
1891.37	ccp	Sh/Clst: blk	1.57	1.25	0.95	1.64	1.20	0.81	0151-1L
1892.48	ccp	bulk	1.40	1.44	1.39	1.01	1.26	0.76	0152-0B
1907.50	ccp	Sh/Clst: blk	1.66	1.04	0.97	1.70	1.76	0.83	0154-1L
1913.90	ccp	bulk	2.32	1.25	1.22	1.91	1.38	0.71	0155-0B
1922.80	ccp	bulk	2.25	1.26	1.21	1.86	1.32	0.75	0156-0B
1924.65	ccp	bulk	2.33	1.34	1.15	2.02	1.03	0.73	0157-0B
1949.52	ccp	bulk	1.87	1.52	1.73	1.08	1.19	0.70	0158-0B
1960.67	ccp	bulk	2.87	1.55	1.68	1.71	1.16	0.69	0159-0B
1967.68	ccp	Sh/Clst: blk	1.29	1.60	1.33	0.97	1.75	0.79	0160-1L

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6608/10-6

Page: 2

Depth unit of measure: m

Depth	Typ	Lithology	<u>Pristane</u>	<u>Pristane</u>	<u>Pristane/nC17</u>	<u>Phytane</u>	<u>nC17</u>	Sample	
			<u>nC17</u>	<u>Phytane</u>	<u>Phytane/nC18</u>	<u>nC18</u>	<u>CPI1</u>		<u>nC17+nC27</u>
1970.81	ccp	bulk	1.26	1.31	1.24	1.02	1.32	0.77	0162-0B
1974.00	cut	Sh/Clst: blk to brn blk	1.05	1.31	1.78	0.59	1.69	0.67	0098-2L
1989.00	cut	Sh/Clst: blk to brn blk	1.10	1.07	1.82	0.61	1.57	0.65	0103-2L
2007.00	cut	Sh/Clst: blk to brn blk	1.18	1.72	1.16	1.02	3.30	0.68	0108-2L
2049.00	cut	Sh/Clst: blk to brn blk	1.73	0.71	2.27	0.76	2.85	0.41	0120-2L
2058.00	cut	Sh/Clst: blk to brn blk	1.34	1.25	2.29	0.58	2.01	0.55	0123-2L
2070.00	cut	Sh/Clst: blk to brn blk	1.39	0.75	2.09	0.66	2.04	0.53	0127-2L
2085.00	cut	Sh/Clst: blk to brn blk	1.21	0.97	1.70	0.71	0.97	0.68	0132-2L
2097.00	cut	Sh/Clst: blk to brn blk	2.12	0.86	2.95	0.72	2.21	0.34	0136-2L
2106.00	cut	Sh/Clst: blk to brn blk	2.24	2.09	3.35	0.67	1.34	1.00	0139-2L
2115.00	cut	Sh/Clst: blk to brn blk	0.89	1.55	1.45	0.62	2.21	0.81	0142-2L

Table 10a: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6608/10-6

Page: 1

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>
1844.97	ccp	bulk	-	-28.18	-27.04	-	-	-	0144-0
1867.30	ccp	bulk	-	-28.42	-27.19	-	-	-	0148-0
1883.90	ccp	bulk	-	-28.35	-27.29	-	-	-	0150-0.
1907.50	ccp	Sh/Clst	-	-28.33	-26.38	-	-	-	0154-1
1922.80	ccp	bulk	-	-28.46	-27.10	-	-	-	0156-0
1924.65	ccp	bulk	-	-28.29	-27.30	-	-	-	0157-0
1949.52	ccp	bulk	-	-28.36	-27.07	-	-	-	0158-0
1967.68	ccp	Sh/Clst	-	-27.91	-26.08	-	-	-	0160-1
1970.81	ccp	bulk	-	-28.37	-27.16	-	-	-	0162-0
2007.00	cut	Sh/Clst	-	-29.12	-25.67	-	-	-	0108-2
2058.00	cut	Sh/Clst	-	-29.83	-25.75	-	-	-	0123-2
2106.00	cut	Sh/Clst	-	-26.00	-26.91	-	-	-	0139-2

Table 10b: Tabulation of cv values from carbon isotope data for well NOCS 6608/10-6

Page: 1

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>
1844.97	ccp	bulk	-28.18	-27.04	-0.38	0144-0
1867.30	ccp	bulk	-28.42	-27.19	-0.11	0148-0
1883.90	ccp	bulk	-28.35	-27.29	-0.51	0150-0
1907.50	ccp	Sh/Clst	-28.33	-26.38	1.46	0154-1
1922.80	ccp	bulk	-28.46	-27.10	0.19	0156-0
1924.65	ccp	bulk	-28.29	-27.30	-0.68	0157-0
1949.52	ccp	bulk	-28.36	-27.07	0.01	0158-0
1967.68	ccp	Sh/Clst	-27.91	-26.08	1.06	0160-1
1970.81	ccp	bulk	-28.37	-27.16	-0.17	0162-0
2007.00	cut	Sh/Clst	-29.12	-25.67	5.04	0108-2
2058.00	cut	Sh/Clst	-29.83	-25.75	6.65	0123-2
2106.00	cut	Sh/Clst	-26.00	-26.91	-5.61	0139-2

Table 11a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 6608/10-6

Page: 1

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
1844.97	bulk	1.07	0.52	0.13	0.50	0.33	0.09	0.10	0.21	0.09	0.09	0.91	0.34	0.12	63.46	0144-0
1867.30	bulk	1.09	0.52	0.14	0.51	0.34	0.09	0.10	0.20	0.09	0.08	0.91	0.35	0.11	61.74	0148-0
1883.90	bulk	1.08	0.52	0.13	0.48	0.32	0.08	0.10	0.20	0.09	0.07	0.91	0.33	0.12	60.80	0150-0
1891.37	Sh/Clst	1.15	0.53	0.18	0.55	0.36	0.08	0.11	0.20	0.10	0.08	0.91	0.36	0.11	59.23	0151-1
1907.50	Sh/Clst	1.12	0.53	0.16	0.54	0.35	0.09	0.11	0.21	0.10	0.08	0.91	0.36	0.12	59.66	0154-1
1922.80	bulk	1.06	0.51	0.14	0.51	0.34	0.09	0.10	0.21	0.09	0.08	0.90	0.34	0.12	60.39	0156-0
1924.65	bulk	1.07	0.52	0.13	0.49	0.33	0.09	0.10	0.21	0.09	0.07	0.91	0.34	0.12	60.61	0157-0
1949.52	bulk	1.06	0.51	0.13	0.50	0.33	0.09	0.10	0.20	0.09	0.08	0.91	0.34	0.11	62.07	0158-0
1967.68	Sh/Clst	1.11	0.53	0.21	0.58	0.37	0.08	0.12	0.21	0.11	0.09	0.91	0.38	0.12	59.85	0160-1
1970.81	bulk	1.11	0.53	0.14	0.53	0.35	0.09	0.11	0.20	0.10	0.08	0.90	0.35	0.12	60.51	0162-0
2007.00	Sh/Clst	1.80	0.64	0.19	0.58	0.37	0.07	1.60	2.75	0.62	0.03	0.84	0.43	0.32	44.45	0108-2
2058.00	Sh/Clst	1.56	0.61	0.17	0.57	0.36	0.08	0.53	0.93	0.35	0.05	0.84	0.41	0.30	47.14	0123-2
2106.00	Sh/Clst	2.20	0.69	0.15	0.46	0.32	0.08	0.79	1.71	0.44	0.02	0.84	0.40	0.36	18.27	0139-2



List of Triterpane Distribution Ratios

Ratio 1:  $27Tm / 27Ts$

Ratio 2:  $27Tm / 27Tm+27Ts$

Ratio 3:  $27Tm / 27Tm+30a\beta+30\beta a$

Ratio 4:  $29a\beta / 30a\beta$

Ratio 5:  $29a\beta / 29a\beta+30a\beta$

Ratio 6:  $30d / 30a\beta$

Ratio 7:  $28a\beta / 30a\beta$

Ratio 8:  $28a\beta / 29a\beta$

Ratio 9:  $28a\beta / 28a\beta+30a\beta$

Ratio 10:  $24/3 / 30a\beta$

Ratio 11:  $30a\beta / 30a\beta+30\beta a$

Ratio 12:  $29a\beta+29\beta a / 29a\beta+29\beta a+30a\beta+30\beta a$

Ratio 13:  $29\beta a+30\beta a / 29a\beta+30a\beta$

Ratio 14:  $32a\beta S / 32a\beta S+32a\beta R (\%)$

Table 11b: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6608/10-6

Page: 1

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>
1844.97	bulk	0.73	47.37	74.36	0.69	0.75	0.38	0.27	0.59	0.90	2.75	0144-0
1867.30	bulk	0.73	46.52	75.56	0.83	0.77	0.37	0.27	0.61	0.87	2.89	0148-0
1883.90	bulk	0.72	47.61	75.51	0.77	0.76	0.36	0.26	0.61	0.91	2.94	0150-0
1891.37	Sh/Clst	0.71	47.00	74.62	0.96	0.76	0.52	0.41	0.60	0.89	2.77	0151-1
1907.50	Sh/Clst	0.74	46.83	76.01	0.93	0.77	0.42	0.33	0.61	0.88	2.98	0154-1
1922.80	bulk	0.73	47.69	75.68	0.88	0.77	0.35	0.26	0.61	0.91	2.97	0156-0
1924.65	bulk	0.72	47.76	76.02	0.84	0.77	0.32	0.23	0.61	0.91	3.03	0157-0
1949.52	bulk	0.73	47.37	75.32	0.80	0.76	0.34	0.24	0.60	0.90	2.90	0158-0
1967.68	Sh/Clst	0.68	43.84	74.28	0.90	0.77	0.56	0.45	0.59	0.78	2.57	0160-1
1970.81	bulk	0.72	47.23	75.81	0.86	0.77	0.34	0.25	0.61	0.90	2.97	0162-0
2007.00	Sh/Clst	0.52	20.05	72.73	0.44	0.87	0.31	0.22	0.57	0.25	1.67	0108-2
2058.00	Sh/Clst	0.59	22.12	71.06	0.55	0.85	0.27	0.20	0.55	0.28	1.58	0123-2
2106.00	Sh/Clst	0.55	24.66	74.52	0.33	0.86	0.28	0.19	0.59	0.33	1.94	0139-2

List of Sterane Distribution Ratios

Ratio 1:  $27d\beta S / 27d\beta S + 27aaR$

Ratio 2:  $29aaS / 29aaS + 29aaR$  (%)

Ratio 3:  $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$  (%)

Ratio 4:  $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5:  $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6:  $21a + 22a / 21a + 22a + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7:  $21a + 22a / 21a + 22a + 28daS + 28aaS + 29daR + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 8:  $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 9:  $29aaS / 29aaR$

Ratio 10:  $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6608/10-6

Page: 1

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	
1844.97	bulk	5738.2	5121.4	1945.0	5792.4	1362.8	9567.7	10215.5	6224.2	6267.9	0144-0
		29782.9	8177.9	5167.7	4286.5	1326.3	60143.8	6119.3	1481.6	17072.7	
		11756.7	11395.9	6562.8	7830.1	4189.1	4307.1	2492.8	2576.0	1724.3	
1867.30	bulk	13177.2	11045.8	4467.4	13075.0	2972.9	22248.0	24326.4	14067.2	13410.3	0148-0
		69432.6	19340.4	11817.3	9569.7	2561.3	136230.3	13346.1	3544.6	38922.0	
		26193.0	24146.7	14966.3	18161.5	9954.5	10260.8	6115.0	6039.4	4214.3	
1883.90	bulk	11630.5	10403.1	3962.2	12643.7	2879.9	21884.8	23617.9	13494.6	12748.4	0150-0
		67078.0	18507.0	11637.4	10005.6	2855.3	139354.4	13903.9	3414.5	39288.1	
		26666.7	24159.2	15573.3	17505.1	10179.2	10078.7	6172.8	6480.6	4446.4	
1891.37	Sh/Clst	19325.4	14356.7	5422.1	25029.2	4005.6	36958.0	42363.9	19243.4	15643.8	0151-1
		94297.8	26624.1	14326.0	12947.5	2690.6	170842.2	16717.9	4441.3	45074.6	
		30684.8	24586.1	16922.2	16129.9	9506.7	9299.3	5754.3	5984.6	3912.8	
1907.50	Sh/Clst	21081.6	17732.0	6780.6	24681.0	5058.9	39822.0	44662.7	23426.6	19399.7	0154-1
		113777.9	31585.3	18761.0	16966.4	4567.0	210191.1	21784.6	5253.9	57434.7	
		39582.8	33553.3	22688.0	23497.9	13553.6	13447.2	8126.2	8363.1	5438.7	
1922.80	bulk	18379.9	16516.1	6779.6	19791.8	4560.6	32670.7	34483.2	20526.0	19776.7	0156-0
		100054.5	29325.9	18107.4	14723.1	4259.5	198002.3	21081.2	4950.8	55554.7	
		38799.3	35123.6	23039.6	25710.2	14463.5	15096.1	9139.0	9647.8	6261.9	
1924.65	bulk	21153.3	17970.0	7427.4	21629.3	5138.8	37876.1	40511.5	25166.4	23860.5	0157-0
		121507.5	35673.2	21031.7	17485.0	4787.6	246938.2	25123.6	6388.6	70287.4	
		50574.8	46264.9	30071.9	35545.0	19615.5	20225.9	12513.1	13054.0	8552.3	

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6608/10-6

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	
1949.52	bulk	16673.3	14900.8	5873.0	18234.1	4294.4	30986.5	32831.3	18764.2	17155.6	0158-0
		95655.4	26371.1	16643.3	13581.9	3630.1	192013.1	18865.9	4968.4	55931.1	
		38318.6	35719.4	21828.4	25409.8	14331.0	14431.4	8449.0	8659.3	5969.1	
1967.68	Sh/Clst	36693.9	27322.4	9675.0	49299.6	7090.9	75556.7	83807.8	35122.1	26253.5	0160-1
		169082.7	48168.4	24064.7	24719.7	5850.0	292148.8	29112.8	7630.1	70212.7	
		50472.1	36807.3	24696.3	22275.7	13893.9	11586.6	7030.9	6450.0	4285.7	
1970.81	bulk	24482.6	20785.1	8456.9	25146.4	6070.9	42751.0	47491.9	27329.8	25313.7	0162-0
		136823.1	38980.5	23432.4	19334.1	5245.6	258064.7	29180.6	7036.5	76138.2	
		54146.4	48458.4	31624.5	35560.9	20432.5	20659.3	12740.7	13093.5	8797.7	
2007.00	Sh/Clst	1291.8	833.5	741.6	1497.6	330.2	3656.4	6586.4	38168.0	1597.7	0108-2
		13901.7	7916.8	1691.8	7434.6	220.0	23862.9	4596.7	1421.6	3709.5	
		7611.6	1906.8	2382.8	1255.2	1098.0	532.6	441.3	574.8	285.8	
2058.00	Sh/Clst	1308.7	988.5	635.1	1491.5	278.9	3414.8	5312.5	11692.4	1316.8	0123-2
		12596.8	6128.0	1814.2	5978.5	278.6	21936.4	4271.6	1278.7	3708.3	
		7139.5	2025.6	2270.9	1261.1	999.0	657.0	410.8	392.2	270.5	
2106.00	Sh/Clst	1524.4	1115.6	1320.7	2276.8	383.2	5560.7	12239.0	44270.6	5436.6	0139-2
		25923.6	16450.8	4549.7	18852.9	786.1	55900.5	10864.3	3939.2	5317.9	
		16799.7	2597.2	11621.4	1415.0	2028.3	571.6	678.3	1313.8	302.8	

Table 11d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6608/10-6

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Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BBS		
		28aaR	29aaS	29BBR	29BBS	29aaR					
1844.97	bulk	10059.2	5151.9	12156.0	7498.0	2413.2	2542.3	6106.4	3509.7	3994.3	0144-0
		18326.9	6689.4	4422.1	7420.0	2609.5	2028.7	7439.1	6673.9		
		1641.7	4761.9	8011.1	6562.3	5290.7					
1867.30	bulk	21031.5	10739.4	25927.1	16221.6	5873.2	5801.5	13254.8	7360.3	8998.5	0148-0
		30045.1	14262.3	9785.4	17489.2	5999.6	5470.3	11547.0	14675.2		
		3459.5	9883.8	18444.4	14392.7	11364.0					
1883.90	bulk	20004.9	9632.9	24098.8	16022.0	5363.2	5488.4	12726.7	7313.3	8770.2	0150-0
		31839.7	13732.6	9299.9	17130.1	5738.1	5268.6	11908.2	14306.7		
		3490.2	9992.9	18156.7	14203.1	10995.7					
1891.37	Sh/Clst	54138.6	26123.8	34386.8	22797.7	9762.6	9680.8	19272.2	9756.5	12858.3	0151-1
		37091.3	19109.9	13744.1	21536.7	7176.4	7130.9	13631.2	18885.8		
		5421.9	14221.4	25072.0	19403.5	16039.0					
1907.50	Sh/Clst	48612.9	24498.6	46897.5	30077.9	11158.4	11134.7	23925.3	12929.7	16338.4	0154-1
		50414.9	25182.5	16650.8	28624.9	9785.4	8041.1	17833.4	26508.6		
		6742.6	18030.0	34640.4	26356.8	20468.3					
1922.80	bulk	29632.9	14284.0	37055.3	25466.5	8808.9	8802.0	19356.8	11165.5	13605.9	0156-0
		41013.7	20637.5	13910.2	25903.4	8527.6	8036.4	15332.0	20962.2		
		5161.5	14906.3	27333.7	21302.1	16350.9					

\* 28daR coel with 27aaS, 29dBS coel with 27BBR, 28daS coel with 27BBS, 29daS coel with 28BBR

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
1924.65	bulk	32918.5 55557.3 7187.2	16695.8 27164.4 19752.4	47957.7 18327.9 36453.4	32097.6 33467.0 29088.0	11078.8 11369.2 21600.9	10615.7 10497.1	24219.8 20831.7	14066.4 28442.7	17169.6	0157-0
1949.52	bulk	26184.8 43819.0 5035.0	13247.1 20575.3 14598.1	37146.0 13575.8 25721.4	22734.4 24254.0 21305.8	8009.1 8456.4 16220.2	7653.3 7549.6	18763.1 17412.0	10777.4 20945.9	12942.4	0158-0
1967.68	Sh/Clst	100702.6 58161.1 9228.3	49874.4 32732.8 20905.3	53269.3 25168.2 39162.9	34985.1 33101.8 29710.4	13442.9 12053.7 26779.0	12745.1 11710.9	25316.8 23645.8	14205.5 30486.2	22784.4	0160-1
1970.81	bulk	38768.4 55446.1 7497.5	19292.3 29191.9 20577.3	50738.6 19498.3 38297.3	31574.9 34957.3 29985.0	12022.8 12064.8 22990.9	11713.3 10921.6	26851.3 20616.9	14650.5 30069.6	18411.5	0162-0
2007.00	Sh/Clst	3432.6 3912.0 2201.5	3132.3 4090.5 1228.1	2421.0 2230.9 4565.9	1322.1 2416.4 3600.8	615.5 1102.3 4897.1	455.1 1597.9	1313.7 3445.8	852.1 1865.0	4148.2	0108-2
2058.00	Sh/Clst	2810.1 3456.0 1764.8	1826.1 2435.6 1227.5	2575.9 1819.5 3665.5	1385.9 2107.2 3147.9	600.7 837.3 4321.7	505.3 629.5	1454.7 2843.4	758.6 1674.0	2961.5	0123-2

\* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Table 11d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6608/10-6

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
2106.00	Sh/Clst	4651.1	5785.5	3346.7	1722.0	1072.0	780.5	2109.6	2430.1	8873.3	0139-2
		6656.2	5595.9	2780.4	4124.1	2800.9	4772.4	7471.0	4271.6		
		4958.7	2740.9	8286.8	7966.8	8373.8					

\* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR



Table 11e: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Lithology	27 $\beta$ BR	27 $\beta$ BS	28 $\beta$ BR	28 $\beta$ BS	29 $\beta$ BR	29 $\beta$ BS	30 $\beta$ BR	30 $\beta$ BS	Sample
1844.97	bulk	16823.8	9015.8	11636.8	9361.5	12528.3	11538.0	3288.9	2792.5	0144-0
1867.30	bulk	28792.0	19124.9	18480.2	20625.9	27648.0	25237.9	7485.0	6216.1	0148-0
1883.90	bulk	29895.7	18826.7	19054.9	19350.1	28165.0	24973.3	7480.8	6125.2	0150-0
1891.37	Sh/Clst	35652.7	26568.0	21855.3	25567.8	35467.5	31013.1	8273.0	7000.3	0151-1
1907.50	Sh/Clst	47309.6	35307.0	28304.1	35754.8	48363.1	42925.4	11934.3	10341.1	0154-1
1922.80	bulk	39776.4	28375.2	24954.8	29247.7	41564.4	36115.9	10484.5	8713.1	0156-0
1924.65	bulk	51285.5	36813.3	33557.1	38066.0	54830.6	48844.9	14543.4	11761.4	0157-0
1949.52	bulk	40627.7	26519.6	27021.4	28496.7	39129.8	36449.9	10711.8	8914.2	0158-0
1967.68	Sh/Clst	56868.4	41360.8	35271.1	40752.8	53887.7	46279.6	11626.9	10410.7	0160-1
1970.81	bulk	50842.3	38828.9	32807.7	41315.8	56053.7	50348.5	14389.0	12799.3	0162-0
2007.00	Sh/Clst	3045.8	2178.9	2931.0	2277.1	5580.3	5046.0	871.0	2788.3	0108-2
2058.00	Sh/Clst	2662.1	1811.2	2592.1	2243.6	4746.6	4272.7	921.9	2611.6	0123-2
2106.00	Sh/Clst	4281.5	2912.4	5391.5	3781.4	10186.2	10470.1	1426.9	6907.1	0139-2

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 6608/10-6

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aß</u>	<u>25nor30aß</u>	<u>Sample</u>
1844.97	bulk	4667.0	3611.2	0144-0
1867.30	bulk	10753.3	7714.5	0148-0
1883.90	bulk	10747.9	7458.4	0150-0
1891.37	Sh/Clst	12850.4	7962.7	0151-1
1907.50	Sh/Clst	14724.5	8996.5	0154-1
1922.80	bulk	15788.3	10970.3	0156-0
1924.65	bulk	19780.3	13446.9	0157-0
1949.52	bulk	14510.6	9793.0	0158-0
1967.68	Sh/Clst	24657.1	12530.8	0160-1
1970.81	bulk	19613.3	13348.2	0162-0
2007.00	Sh/Clst	11407.9	611.6	0108-2
2058.00	Sh/Clst	4786.1	518.0	0123-2
2106.00	Sh/Clst	44454.2	2054.3	0139-2

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 6608/10-6

Page: 1

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	
1844.97	bulk	88307.0	78815.7	29931.7	89141.7	20972.2	147240.0	157210.4	95787.1	96458.2	0144-0
		458340.2	125852.1	79526.9	65966.3	20410.2	925574.8	94172.4	22800.5	262738.4	
		180928.3	175376.1	100998.0	120499.6	64467.5	66284.1	38363.3	39642.3	26535.6	
1867.30	bulk	125801.3	105452.4	42649.2	124825.7	28382.1	212398.8	232240.8	134297.9	128026.8	0148-0
		662864.0	184639.9	112818.5	91360.9	24452.2	1300572.0	127413.4	33839.8	371582.7	
		250061.4	230525.6	142880.9	173385.6	95034.7	97958.6	58379.3	57656.9	40233.5	
1883.90	bulk	122444.3	109521.9	41713.2	133110.6	30318.7	230399.6	248646.0	142069.5	134213.2	0150-0
		706187.5	194839.2	122516.7	105337.2	30060.1	1467102.9	146378.5	35947.4	413619.3	
		280742.9	254344.6	163953.0	184291.0	107165.0	106107.6	64986.7	68226.9	46811.4	
1891.37	Sh/Clst	153435.4	113985.6	43049.5	198720.8	31802.6	293430.4	336350.3	152783.8	124205.1	0151-1
		748682.4	211383.4	113742.0	102797.0	21361.8	1356411.1	132732.9	35261.7	357872.4	
		243623.3	195202.4	134354.3	128064.0	75478.7	73832.3	45686.7	47515.4	31065.9	
1907.50	Sh/Clst	141719.2	119201.6	45582.0	165915.7	34008.3	267700.1	300241.0	157483.1	130412.7	0154-1
		764862.4	212329.4	126119.0	114055.2	30701.5	1412992.0	146445.4	35318.9	386100.2	
		266092.3	225559.1	152518.2	157962.5	91113.1	90398.0	54627.6	56220.5	36561.2	
1922.80	bulk	150254.7	135018.8	55423.1	161796.8	37283.1	267081.9	281899.2	167799.4	161673.9	0156-0
		817941.8	239738.0	148027.2	120360.9	34821.5	1618661.2	172338.3	40472.8	454157.7	
		317183.0	287133.8	188347.7	210179.7	118238.3	123409.8	74710.6	78870.2	51191.1	
1924.65	bulk	135655.8	115241.7	47631.7	138708.7	32954.9	242899.0	259799.9	161391.7	153017.5	0157-0
		779226.8	228771.7	134876.2	112131.2	30702.8	1583613.0	161117.3	40970.0	450752.8	
		324335.9	296696.3	192850.8	227950.0	125794.2	129708.5	80246.4	83715.2	54845.7	

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 6608/10-6

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	
1949.52	bulk	122472.2	109452.8	43139.5	133936.7	31544.2	227608.6	241159.3	137831.1	126015.3	0158-0
		702628.9	193706.9	122251.7	99764.8	26664.5	1410416.4	138578.2	36495.1	410837.3	
		281465.8	262374.1	160338.6	186645.5	105266.8	106004.4	62061.1	63605.9	43845.3	
1967.68	Sh/Clst	173861.7	129457.9	45841.6	233589.7	33598.1	358000.2	397095.2	166414.4	124393.3	0160-1
		801141.8	228229.8	114022.5	117126.0	27718.1	1384249.4	137941.4	36152.8	332679.4	
		239145.3	174399.1	117015.2	105545.8	65831.5	54899.3	33313.7	30561.1	20306.4	
1970.81	bulk	151461.7	128587.5	52318.7	155568.7	37557.7	264479.5	293809.5	169076.2	156603.7	0162-0
		846457.9	241153.5	144964.7	119610.7	32452.2	1596520.7	180526.4	43531.6	471030.0	
		334977.3	299788.7	195645.6	219998.0	126405.7	127809.3	78820.7	81003.2	54427.0	
2007.00	Sh/Clst	21264.1	13720.7	12207.2	24653.1	5434.9	60189.6	108422.1	628299.7	26300.0	0108-2
		228841.0	130322.0	27849.6	122384.7	3621.5	392817.3	75668.8	23402.3	61063.4	
		125298.1	31388.4	39224.7	20663.1	18073.8	8766.8	7264.4	9461.2	4704.7	
2058.00	Sh/Clst	24974.8	18864.2	12120.5	28462.5	5323.3	65165.5	101380.7	223129.6	25129.3	0123-2
		240390.0	116942.0	34620.8	114090.0	5316.0	418621.4	81517.0	24401.1	70766.5	
		136245.3	38655.3	43337.1	24065.2	19065.1	12537.3	7838.6	7485.0	5162.7	
2106.00	Sh/Clst	27026.7	19780.0	23415.9	40367.0	6793.8	98590.1	216994.1	784904.3	96388.6	0139-2
		459617.7	291667.2	80664.3	334257.0	13937.4	991098.4	192621.5	69841.6	94283.9	
		297853.3	46047.8	206044.5	25087.6	35961.8	10134.4	12025.6	23292.6	5368.8	

Table 11h: Amount of steranes (ppb) m/z 217 SIR for Well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
1844.97	bulk	154803.8	79285.1	187073.0	115389.4	37137.2	39124.9	93974.0	54012.6	61470.0	0144-0
		282038.5	102944.9	68052.7	114188.6	40158.2	31219.9	114483.4	102707.3		
		25263.9	73282.8	123286.3	100989.7	81420.8					
1867.30	bulk	200785.0	102527.9	247522.0	154865.3	56070.6	55386.5	126542.0	70267.6	85907.9	0148-0
		286836.0	136160.2	93420.3	166967.3	57277.4	52223.9	110237.6	140101.7		
		33027.0	94359.0	176086.0	137405.0	108490.4					
1883.90	bulk	210608.6	101413.4	253708.3	168676.9	56463.4	57781.3	133984.7	76993.0	92330.9	0150-0
		335203.3	144574.9	97907.7	180343.0	60410.1	55467.5	125367.6	150619.2		
		36744.4	105203.7	191151.1	149528.3	115760.7					
1891.37	Sh/Clst	429836.1	207411.2	273015.7	181003.6	77510.8	76861.0	153012.7	77462.2	102089.5	0151-1
		294488.4	151723.8	109122.0	170992.1	56977.8	56616.0	108225.7	149945.2		
		43047.6	112911.4	199060.2	154055.1	127342.2					
1907.50	Sh/Clst	326796.1	164689.8	315264.6	202196.5	75011.2	74852.4	160835.7	86918.5	109833.7	0154-1
		338909.6	169287.0	111933.3	192428.5	65781.3	54055.5	119883.3	178201.7		
		45326.5	121204.9	232867.3	177181.0	137596.7					
1922.80	bulk	242247.8	116771.2	302925.4	208187.6	72012.6	71955.7	158241.3	91277.9	111228.0	0156-0
		335285.1	168710.9	113715.3	211759.5	69712.7	65697.5	125338.9	171365.4		
		42195.2	121858.2	223452.3	174143.7	133668.2					

\* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Table 11h: Amount of steranes (ppb) m/z 217 SIR for Well NOCS 6608/10-6

Page: 2

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BBR	29BS	29aaR					
1924.65	bulk	211106.2 356288.5 46091.6	107069.8 174205.2 126672.1	307552.5 117536.4 233775.3	205841.5 214623.7 186541.1	71048.1 72910.9 138526.7	68078.2 67317.6	155321.2 133593.7	90208.0 182402.7	110108.5	0157-0
1949.52	bulk	192337.9 321868.8 36984.3	97305.8 151134.2 107229.2	272852.8 99719.7 188934.1	166993.4 178155.7 156500.4	58830.4 62115.7 119144.1	56216.7 55455.3	137822.5 127898.6	79164.8 153856.7	95067.1	0158-0
1967.68	Sh/Clst	477145.6 275577.1 43725.1	236313.3 155093.2 99053.0	252398.9 119251.1 185560.1	165765.3 156841.7 140772.6	63694.5 57112.2 126883.5	60388.4 55488.0	119955.4 112037.6	67307.9 144448.7	107956.1	0160-1
1970.81	bulk	239841.0 343018.3 46383.3	119352.3 180596.0 127301.6	313894.8 120626.7 236927.0	195338.5 216263.7 185502.7	74379.3 74638.8 142233.4	72464.5 67566.6	166115.7 127546.9	90635.5 186025.8	113903.1	0162-0
2007.00	Sh/Clst	56505.7 64397.1 36239.6	51562.4 67334.7 20215.7	39853.4 36723.7 75160.4	21763.4 39777.4 59274.0	10131.4 18144.9 80612.9	7492.1 26303.5	21625.1 56722.7	14027.4 30700.5	68285.9	0108-2
2058.00	Sh/Clst	53626.0 65951.6 33678.2	34847.9 46479.2 23425.2	49156.6 34722.9 69950.5	26447.1 40212.4 60072.9	11463.2 15978.4 82472.2	9642.2 12013.5	27761.2 54262.4	14477.4 31946.4	56514.5	0123-2

\* 28daR coel with 27aaS, 29dBS coel with 27BBR, 28daS coel with 27BS, 29daS coel with 28BBR

Table 11h: Amount of steranes (ppb) m/z 217 SIR for Well NOCS 6608/10-6

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BBR	29BS	29aaR					
2106.00	Sh/Clst	82462.0	102574.4	59336.5	30529.9	19006.8	13837.9	37403.1	43084.6	157320.3	0139-2
		118013.3	99213.4	49294.9	73119.6	49658.2	84613.4	132457.8	75733.8		
		87915.9	48596.1	146923.0	141249.5	148464.3					

\* 28daR coel with 27aaS, 29dBS coel with 27BBR, 28daS coel with 27BS, 29daS coel with 28BBR

Table 11i: Amount of standard and weight of sample for Well NOCS 6608/10-6

Page: 1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Standard</u>	<u>Amount</u>	<u>Weight</u>	<u>Sample</u>
1844.97	bulk	3126.2	1.400	29.1	0144-0
1867.30	bulk	5728.3	1.400	25.6	0148-0
1883.90	bulk	4871.1	1.400	27.3	0150-0
1891.37	Sh/Clst	15201.1	0.700	5.8	0151-1
1907.50	Sh/Clst	9917.1	0.700	10.5	0154-1
1922.80	bulk	6342.8	1.400	27.0	0156-0
1924.65	bulk	9923.0	1.400	22.0	0157-0
1949.52	bulk	6807.0	1.400	28.0	0158-0
1967.68	Sh/Clst	59094.6	0.700	2.5	0160-1
1970.81	bulk	8771.3	1.400	25.8	0162-0
2007.00	Sh/Clst	141745.6	0.700	0.3	0108-2
2058.00	Sh/Clst	122270.5	0.700	0.3	0123-2
2106.00	Sh/Clst	131605.9	0.700	0.3	0139-2



## Appendix A2: Vitrinite Reflectance

## **1 Introduction**

This report gives the result of routine vitrinite reflectance analyses of 13 samples from well 6608/10-6 offshore Norway.

## **2 Material**

The material was provided from the client as 9 cuttings samples (DC) and 4 core chips (CCP). Information on stratigraphy in well 6608/10-6 was not provided from the client.

## **3 Analytical techniques**

### **3.1 Preparation**

The sample material was embedded in an epoxy resin to make briquettes, dried and then dry grounded to a flat surface. The sample surface was impregnated with a somewhat thinned epoxy, dried and finally polished using 0.25 micron diamond paste and magnesium oxide as the two final steps.

### **3.2 Analysis**

The analytical equipment being used was a Zeiss MPM 03 photometer microscope equipped with an Epiplan-Neofluar 40/0.90 oil objective. The sensitive measuring spot was kept constant for all measurements at about 2.5 micron in diameter. The measurements were made through a green band pass filter (546 nm) and in oil immersion (refractive index 1.515 at 18°C). The readings were made without a polarizer and using a stationary stage. This procedure is called measurement of random reflectance (%R<sub>m</sub>). The photometer is calibrated daily against a standard of known reflectance (%R<sub>m</sub>= 0.588) and routinely (daily) checked against two other standards of significant different reflectances (%R<sub>m</sub>=0.879 and 1.696). A deviation from these values of less than ±0.01 and ±0.02 respectively is considered as acceptable. The calibration is routinely checked during the course of measurements at least every hour, and a deviation of less than ±0.005 is considered as acceptable.

For each sample at least 20 points were measured if possible, and quality ratings are given to various important aspects which may affect the measurements. These aspects are abundance of vitrinite, uncertainties in the identification of indigenous vitrinite, type of vitrinite, particle size, particle surface quality and abundance of pyrite.

### **3.3 Presentation of results**

The raw data from the measurements are presented in appendix for each sample both as tabulated data and histograms. A true vitrinite population is selected among the readings based on observations made during the measurements, and arithmetic mean values and standard deviation are calculated for this population and other populations. A quality rating is given to the true population. There is one data sheet with raw data for each sample. The results are listed in table 1. Figure 1 shows a vitrinite reflectance versus depth plot.

## **4 Results**

The samples were mostly of good quality (Tab.1). Vitrinite reflectance analyses gave a fairly reliable maturity trend for the interval 1425-2106mRKB in well 6608/10-6.

**Table 1. Vitrinite reflectance data table well 6608/10-6**

<b>Analysis type:</b>		Vitrinite reflectance							
<b>Well:</b>		6608/10-6							
<b>Number of samples:</b>		13							
<b>Time period for analysis:</b>		July 2000							
<b>Analysis performed by:</b>		K. Aasgaard, IFE							
<b>Analysis ordered by:</b>		Geolab Nor							
IFE sample code	Depth (m)	Sample type	Lithology	Vitr. refl. (%Rm)	Stand. dev.	Number of readings	Sample description	Sample quality	Sample prep.
20000943	1425	DC	clyst/sst	0,27	0,03	23	oooooo	G	bulk
20000944	1515	DC	clyst/sst	0,24	0,04	22	ooo-oo	M	bulk
20000945	1610	DC	clyst	0,25	0,05	22	ooo-oo	M	bulk
20000946	1690	DC	sst/clyst	0,37?					bulk
20000947	1752	DC	sst	0,29	0,02	3	-oo-o+	P	bulk
20000948	1815	DC	sst	0,28	0,05	23	ooo-oo	G	bulk
20000949	2016	DC	coal/clyst	0,33	0,04	24	oooooo	G	bulk
20000950	2061	DC	coal/sst	0,31	0,05	25	oooooo	G	bulk
20000951	2106	DC	coal	0,31	0,04	25	oooooo	G	bulk
20000952	1857,56	CCP	clyst	0,36	0,07	13	---oo	P	bulk
20000953	1891,37	CCP	coal	0,33	0,03	25	oooooo	G	bulk
20000954	1907,5	CCP	coal	0,33	0,04	25	oooooo	G	bulk
20000955	1968,46	CCP	coal/clyst	0,38	0,04	23	oooooo	G	bulk

**Legend to vitrinite reflectance data table**

Lithology code	Sample quality	Sample preparation
Sandstone sst	G good	HF sample treated with hydrofluoric acid prior to analysis
Siltstone slst	M moderate	
Claystone clyst	P poor	bulk sample treated as bulk rock
Shale sh	st hydrocarbon staining	
Limestone lst		
Coal coal		
Sample description and measurement evaluation (- o +)		Options
oooooo	1 Abundance of vitrinite	- o
123456	2 Identification of vitrinite	- o +
	3 Type of vitrinite	- o +
	4 Vitrinite fragment size	- o
	5 Vitrinite surface quality	- o
	6 Abundance of pyrite	o +
<b>Options legend:</b>		
	-	may give too low vitrinite reflectance sample value
	o	reliable vitrinite reflectance sample value
	+	may give too high vitrinite reflectance sample value

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Appendix C1: Tables

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Table 1 Analytical Program for oils and gases

Sample Depth (m)	Sample Type	Sample Code	Lithology Description	Picking for screening	Prepreparing (Kjemematriale)	Prepreparing (Losningsmiddel-Ekstraksjon)	Leco TOC	RockEval	GHM Pyrolysis-GC	Picking for Extraction	Topping	Iatroscan	SOXTEC Extraction	MPLC & Deasphaltene	EOM GC	Whole Oil GC	Sat GC (Q or non-Q)	Aro GC (Non Quantitative)	Sat GCMS (Q or non-Q)	Aro GCMS (Non-Q)	Isotope of EOM/fractions §	API Gravity (Westlab)	Vitrinite Reflectance	Visual Kerogen	Gas composition and isotopes (IFE)	
Table nos.							5	5			8	8	8			13	9	9	11	12	10	17	4	7	14	
1826.7 MDT	o	T91/0001-0									x	x		x		x	x	x	x	x	x					
1910.5 MDT	o	T91/0002-0									x	x		x		x	x	x	x	x	x					
1940.5 MDT	o	T91/0003-0									x	x		x		x	x	x	x	x	x					
1826.7 MDT	g	T91/0004-0																							x	
1910.5 MDT	g	T91/0005-0																							x	
1940.5 MDT	g	T91/0006-0																							x	
<b>Total</b>											<b>3</b>	<b>3</b>		<b>3</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>				<b>3</b>	
Sample type key c = Cuttings s = SWC p = Conv core/ plug o=oil g= gas m=mud																										
§ Isotope analysis on topped oil and sat, aro, NSO and asphaltene fractions												Q=quantitative, non-Q = not quantitative														

Table 8a: MPLC Bulk Composition: Weight of Oil and Fraction for NOCS 6608/10-6

Well	Description	Whole oil (mg)	Light (mg)	Topped (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	Sample
6608/10-6	1826.7 MDT	48.2	5.0	43.2	24.2	14.3	0.4	4.3	38.5	4.7	T91/0001
6608/10-6	1910.5 MDT	48.6	1.0	47.6	24.2	18.3	0.3	4.8	42.5	5.1	T91/0002
6608/10-6	1940.5 MDT	53.7	1.7	52.0	28.2	18.3	0.3	5.2	46.5	5.5	T91/0003

Table 8b: MPLC Bulk Composition: Comparison of topped oil (%) for NOCS 6608/10-6

Well	Description	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
6608/10-6	1826.7 MDT	56.00	33.17	0.93	9.91	100.00	89.17	10.83	1.18	0.92	T91/0001
6608/10-6	1910.5 MDT	50.81	38.39	0.63	10.16	100.00	89.21	10.79	1.16	0.98	T91/0002
6608/10-6	1940.5 MDT	54.32	35.19	0.58	9.91	100.00	89.51	10.49	1.21	0.96	T91/0003

Table 8c: MPLC Bulk Composition: Ratios in topped oil for NOCS 6608/10-6

Well	Description	Sat	HC	Asp	Sample
		Aro	Non-HC	NSO	
6608/10-6	1826.7 MDT	1.69	8.23	0.09	T91/0001
6608/10-6	1910.5 MDT	1.32	8.27	0.06	T91/0002
6608/10-6	1940.5 MDT	1.54	8.54	0.06	T91/0003

Table 8F: Iatroscan TLC Bulk Composition: Rel. percentages of sep. fractions for NOCS 6608/10-6

Well	Description	Sat HC	Aro HC	NSO	Asp	Total	HC	Non-HC	Recov. Iatr.	Recov. Asp	Sample
6608/10-6	1826.7 MDT	61.13	33.99	3.96	0.93	100.00	95.12	4.88	0.74	0.92	T91/0001
6608/10-6	1910.5 MDT	54.19	40.51	4.67	0.63	100.00	94.70	5.30	0.95	0.98	T91/0002
6608/10-6	1940.5 MDT	58.67	37.34	3.41	0.58	100.00	96.01	3.99	0.90	0.96	T91/0003



Table 9a<sup>1</sup> Peak areas Saturated Hydrocarbon GC data

Depth (m)	Desc	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26
1826.7	1826.7 MDT	861740	891446	404977	930423	807968	908622	458518	929661	743780	640068	599050	550777	484454	445245	361555
1910.5	1910.5 MDT	70945	82558	164326	133176	278671	125970	213204	87085	86415	42951	31428	44936	36395	42560	31837
1940.5	1940.5 MDT	232700	240301	319320	339143	642303	348969	438385	467709	343587	253311	224147	221882	208212	215547	164950

Depth (m)	Desc	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
1826.7	1826.7 MDT	335404	245357	229439	157612	148326	101825	129668	134220	T91/0001-0
1910.5	1910.5 MDT	53181	16515	31433	0	0	0	0	0	T91/0002-0
1940.5	1940.5 MDT	175169	114289	110686	84625	70849	62801	0	0	T91/0003-0

Table 9a: Quantitative Analysis of Saturated Fraction for NOCS 6608/10-6

sample	nC15 mg/g sat	nC16 mg/g sat	iC18 mg/g sat	nC17 mg/g sat	Pr mg/g sat	nC18 mg/g sat	Ph mg/g sat	nC19 mg/g sat	nC20 mg/g sat	nC21 mg/g sat	nC22 mg/g sat	nC23 mg/g sat	nC24 mg/g sat	nC25 mg/g sat	nC26 mg/g sat	nC27 mg/g sat	nC28 mg/g sat	nC29 mg/g sat	nC30 mg/g sat	nC31 mg/g sat	nC32 mg/g sat	nC33 mg/g sat	nC34 mg/g sat
1826.7 MDT	11.71	12.11	5.50	12.64	10.98	12.35	6.23	12.63	10.11	8.70	8.14	7.48	6.58	6.05	4.91	4.56	3.33	3.12	2.14	2.02	1.38	1.76	1.82
1910.5 MDT	1.21	1.41	2.81	2.27	4.76	2.15	3.64	1.49	1.48	0.73	0.54	0.77	0.62	0.73	0.54	0.91	0.28	0.54	0.00	0.00	0.00	0.00	0.00
1940.5 MDT	3.01	3.11	4.14	4.39	8.32	4.52	5.68	6.06	4.45	3.28	2.90	2.87	2.70	2.79	2.14	2.27	1.48	1.43	1.10	0.92	0.81	0.00	0.00

Table 9b: Saturated Hydrocarbon Ratios (peak area) for NOCS 6608/10-6

Well	Description	Pristane	Pristane	Pristane/nC17	Phytane	CPI1	nC17	Sample
		nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
6608/10-6	1826.7 MDT	0.87	1.76	1.72	0.50	1.13	0.74	T91/0001
6608/10-6	1910.5 MDT	2.09	1.31	1.24	1.69	2.07	0.71	T91/0002
6608/10-6	1940.5 MDT	1.89	1.47	1.51	1.26	1.17	0.66	T91/0003

Table 9ca<sup>1</sup> Peak areas Aromatic Hydrocarbon GC data

Lower depth	Desc	2MN	1MN	BPh	2EN	1EN	2.6+2.7DMN	1.6DMN	1.5DMN	1.3.7TMN	1.3.8TMN	1.3.5TMN	1.4.6+2.3.6TMN	P
1826.7	1826.7 MDT	273072	159375	156732	125151	109685	436669	400111	79778	240148	387651	340928	312915	239094
1910.5	1910.5 MDT	0	0	0	0	0	0	0	0	63928	91014	132100	109460	284946
1940.5	1940.5 MDT	72863	32012	45126	0	0	104904	109513	0	101251	142611	184721	147531	275868

Lower depth	Desc	3MP	2MP	9MP	1MP	DBT	4MDBT	2+3MDBT	1MDBT	Sample number
1826.7	1826.7 MDT	145526	180972	126019	99093	168635	235974	113229	0	T91/0001-0
1910.5	1910.5 MDT	69002	98984	100151	57207	0	0	0	0	T91/0002-0
1940.5	1940.5 MDT	62526	116691	92059	49291	0	0	0	0	T91/0003-0

Table 9ca: Aromatic Hydrocarbon Ratios (peak area) for NOCS 6608/10-6

Well	Description	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
6608/10-6	1826.7 MDT	1.71	5.47	0.39	1.83	1.06	1.17	1.03	0.71	-	-	T91/0001
6608/10-6	1910.5 MDT	-	-	-	1.73	0.57	0.67	0.74	-	-	-	T91/0002
6608/10-6	1940.5 MDT	2.28	-	0.41	2.37	0.64	0.84	0.79	-	-	-	T91/0003

Table 9cb: Aromatic Hydrocarbon Ratios (peak area) for NOCS 6608/10-6

Well	Description	F1	F2	Sample
6608/10-6	1826.7 MDT	0.59	0.33	T91/0001
6608/10-6	1910.5 MDT	0.52	0.30	T91/0002
6608/10-6	1940.5 MDT	0.56	0.36	T91/0003

Table 10a: Tabulation of carbon isotope data on oils for NOCS 6608/10-6

<u>Well</u>	<u>Descript.</u>	<u>Whole oil</u>	<u>Topped oil</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Sample</u>
6608/10-6	1826.7 MDT	-	-27.80	-28.40	-27.31	-27.87	-28.64	T91/0001
6608/10-6	1910.5 MDT	-	-27.90	-28.51	-27.26	-27.88	-28.57	T91/0002
6608/10-6	1940.5 MDT	-	-27.83	-28.47	-27.28	-27.94	-26.17	T91/0003

Table 10b: Tabulation of cv values from carbon isotope data for NOCS 6608/10-6

<u>Well</u>	<u>Descript.</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
6608/10-6	1826.7 MDT	-28.40	-27.31	-0.43	T91/0001
6608/10-6	1910.5 MDT	-28.51	-27.26	-0.04	T91/0002
6608/10-6	1940.5 MDT	-28.47	-27.28	-0.18	T91/0003

Table 11a: Variation in Triterpane Distribution (peak height) SIR for NOCS 6608/10-6

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
608/10-6	1826.7 MDT	1.14	0.53	0.14	0.47	0.32	0.08	0.09	0.19	0.08	0.07	0.91	0.33	0.11	61.54	T91/0001
608/10-6	1910.5 MDT	1.12	0.53	0.15	0.49	0.33	0.08	0.10	0.20	0.09	0.08	0.91	0.34	0.12	61.96	T91/0002
608/10-6	1940.5 MDT	1.10	0.52	0.14	0.48	0.32	0.08	0.09	0.20	0.09	0.08	0.91	0.33	0.11	61.74	T91/0003

List of Triterpane Distribution Ratios

Ratio 1:  $27Tm / 27Ts$

Ratio 2:  $27Tm / 27Tm+27Ts$

Ratio 3:  $27Tm / 27Tm+30a\beta+30\beta a$

Ratio 4:  $29a\beta / 30a\beta$

Ratio 5:  $29a\beta / 29a\beta+30a\beta$

Ratio 6:  $30d / 30a\beta$

Ratio 7:  $28a\beta / 30a\beta$

Ratio 8:  $28a\beta / 29a\beta$

Ratio 9:  $28a\beta / 28a\beta+30a\beta$

Ratio 10:  $24/3 / 30a\beta$

Ratio 11:  $30a\beta / 30a\beta+30\beta a$

Ratio 12:  $29a\beta+29\beta a / 29a\beta+29\beta a+30a\beta+30\beta a$

Ratio 13:  $29\beta a+30\beta a / 29a\beta+30a\beta$

Ratio 14:  $32a\beta S / 32a\beta S+32a\beta R$  (%)

Table 11b: Variation in Sterane Distribution (peak height) SIR for NOCS 6608/10-6

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
6608/10-6	1826.7 MDT	0.70	49.22	78.88	1.02	0.79	0.38	0.26	0.65	0.97	3.68	T91/0001
6608/10-6	1910.5 MDT	0.70	49.20	78.77	0.96	0.79	0.35	0.25	0.65	0.97	3.65	T91/0002
6608/10-6	1940.5 MDT	0.70	49.26	79.71	0.98	0.80	0.39	0.27	0.66	0.97	3.87	T91/0003

List of Sterane Distribution Ratios

Ratio 1:  $27\delta\text{BS} / 27\delta\text{BS}+27\alpha\text{aR}$

Ratio 2:  $29\alpha\text{aS} / 29\alpha\text{aS}+29\alpha\text{aR} (\%)$

Ratio 3:  $2*(29\beta\beta\text{R}+29\beta\beta\text{S}) / (29\alpha\text{aS}+29\alpha\text{aR} + 2*(29\beta\beta\text{R}+29\beta\beta\text{S})) (\%)$

Ratio 4:  $27\delta\text{BS}+27\delta\beta\text{R}+27\delta\alpha\text{R}+27\delta\alpha\text{S} / 29\delta\text{BS}+29\delta\beta\text{R}+29\delta\alpha\text{R}+29\delta\alpha\text{S}$

Ratio 5:  $29\beta\beta\text{R}+29\beta\beta\text{S} / 29\beta\beta\text{R}+29\beta\beta\text{S}+29\alpha\text{aS}$

Ratio 6:  $21\text{a}+22\text{a} / 21\text{a}+22\text{a}+29\alpha\text{aS}+29\beta\beta\text{R}+29\beta\beta\text{S}+29\alpha\text{aR}$

Ratio 7:  $21\text{a}+22\text{a} / 21\text{a}+22\text{a}+28\delta\alpha\text{S}+28\alpha\alpha\text{S}+29\delta\alpha\text{R}+29\alpha\alpha\text{S}+29\beta\beta\text{R}+29\beta\beta\text{S}+29\alpha\text{aR}$

Ratio 8:  $29\beta\beta\text{R}+29\beta\beta\text{S} / 29\alpha\text{aS}+29\beta\beta\text{R}+29\beta\beta\text{S}+29\alpha\text{aR}$

Ratio 9:  $29\alpha\text{aS} / 29\alpha\text{aR}$

Ratio 10:  $29\beta\beta\text{R}+29\beta\beta\text{S} / 29\alpha\text{aR}$

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for NOCS 6608/10-6

Well	Descript.	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28a $\beta$	25nor30a $\beta$	Sample
		29a $\beta$	29Ts	30d	29Ba	300	30a $\beta$	30Ba	30G	31a $\beta$ S	
		31a $\beta$ R	32a $\beta$ S	32a $\beta$ R	33a $\beta$ S	33a $\beta$ R	34a $\beta$ S	34a $\beta$ R	35a $\beta$ S	35a $\beta$ R	
6608/10-6	1826.7 MDT	19717.2 107296.1 41560.3	17067.5 32250.1 40089.5	6420.3 17973.1 25050.2	20815.8 15748.6 24044.3	4938.9 0.0 15803.9	34257.0 229360.5 14626.8	39220.5 21802.0 9311.6	20387.8 0.0 10629.5	15727.4 65333.0 6420.6	T91/0001
6608/10-6	1910.5 MDT	17105.0 94337.7 35736.1	15280.1 28167.4 35391.4	5946.9 16150.5 21731.6	17835.5 14121.1 21726.2	3972.5 0.0 13763.4	33253.7 193684.0 12876.9	37342.8 19469.6 8536.9	19145.3 0.0 8049.7	17231.6 54338.8 5648.9	T91/0002
6608/10-6	1940.5 MDT	16574.6 91584.1 34577.8	14411.1 27140.5 34522.4	5524.1 15575.8 21396.8	17316.7 13647.2 20775.2	4116.1 0.0 13320.3	32147.1 192113.8 12212.3	35366.1 18888.2 8019.5	18112.6 0.0 7990.5	15264.3 53466.5 5354.5	T91/0003



Table 11d: Raw sterane data (peak height) m/z 217 SIR for NOCS 6608/10-6

Well	Descript.	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BR		
		28aaR	29aaS	29BR	29BS	29aaR					
608/10-6	1826.7 MDT	34521.3	13804.9	38665.6	30264.3	10649.5	11556.9	18591.0	12548.1	16446.1	T91/0001
		32646.7	30705.0	16459.0	28462.8	11083.3	10946.3	16849.1	28695.6		
		6995.3	13728.2	28357.2	23742.8	14163.7					
608/10-6	1910.5 MDT	30045.4	11776.9	33166.8	25746.8	9397.9	9528.6	16941.7	11766.8	15407.0	T91/0002
		28855.9	22053.0	14515.3	25813.8	10209.5	10736.4	16195.7	21175.9		
		7088.1	13282.6	27022.3	23066.1	13711.9					
608/10-6	1940.5 MDT	30394.8	11506.5	30418.9	23361.8	7997.1	8438.9	15172.7	10281.9	12808.8	T91/0003
		25946.4	22462.3	13014.5	23006.1	8541.3	8842.0	13887.1	20642.6		
		5434.9	11053.9	23974.5	20099.9	11384.3					

\* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Table 11e: Raw sterane data (peak height) m/z 218 SIR for NOCS 6608/10-6

Well	Descript.	27BAR	27BAS	28BAR	28BAS	29BAR	29BAS	30BAR	30BAS	Sample
608/10-6	1826.7 MDT	37299.3	40938.7	26687.8	40314.5	47849.3	42241.1	11852.3	11698.2	T91/0001
608/10-6	1910.5 MDT	31306.4	29070.2	23969.6	28749.5	42375.9	37938.9	10465.2	10758.8	T91/0002
608/10-6	1940.5 MDT	29177.0	31754.0	23107.3	31234.3	39541.5	35872.6	9805.4	9762.6	T91/0003

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for NOCS 6608/10-6

Well	Descript.	25nor28aβ	25nor30aβ	Sample
608/10-6	1826.7 MDT	15743.8	9005.6	T91/0001
608/10-6	1910.5 MDT	15235.4	11863.3	T91/0002
608/10-6	1940.5 MDT	13807.0	9554.1	T91/0003

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for NOCS 6608/10-6

Well	Descript.	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29Ba	300	30aß	30Ba	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
608/10-6	1826.7 MDT	125128.6	108313.6	40744.2	132100.9	31343.0	217400.9	248900.3	129384.8	99808.8	T91/0001
		680920.7	204664.7	114060.8	99943.5	0.0	1455563.6	138359.7	0.0	414614.9	
		263749.3	254415.5	158973.1	152589.2	100294.2	92824.2	59093.0	67456.7	40746.2	
608/10-6	1910.5 MDT	156603.2	139895.6	54445.9	163291.0	36370.1	304451.1	341887.9	175283.2	157761.7	T91/0002
		863699.1	257883.5	147864.1	129284.4	0.0	1773253.6	178252.1	0.0	497492.8	
		327177.7	324021.9	198961.5	198911.6	126009.2	117892.9	78159.0	73697.8	51717.5	
608/10-6	1940.5 MDT	124656.1	108384.6	41546.5	130237.6	30957.1	241775.4	265984.9	136222.9	114801.7	T91/0003
		688795.3	204120.8	117144.0	102639.3	0.0	1444869.6	142056.1	0.0	402116.6	
		260056.4	259639.8	160922.9	156248.6	100180.8	91847.6	60314.1	60095.5	40270.7	

Table 11h: Amount of steranes (ppb) m/z 217 SIR for NOCS 6608/10-6

Well	Descript.	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BSR	29BS	29aaR					
608/10-6	1826.7 MDT	219078.5	87608.5	245379.2	192062.7	67583.5	73342.2	117982.1	79632.4	104370.0	T91/0001
		207182.0	194859.3	104451.6	180630.4	70336.5	69467.5	106927.5	182107.8		
		44393.6	87121.5	179960.0	150676.2	89885.4					
608/10-6	1910.5 MDT	275077.6	107822.0	303654.7	235722.5	86041.1	87237.9	155108.0	107729.7	141056.8	T91/0002
		264187.2	201903.9	132893.2	236335.9	93471.6	98296.2	148278.2	193874.1		
		64894.4	121607.4	247399.6	211179.2	125538.0					
608/10-6	1940.5 MDT	228596.2	86539.5	228777.7	175702.1	60145.4	63467.8	114112.7	77329.5	96333.7	T91/0003
		195140.3	168936.9	97881.0	173027.0	64238.2	66499.7	104443.9	155250.7		
		40875.1	83135.6	180310.2	151169.7	85620.0					

\* 28daR coel with 27aaS, 29dBS coel with 27BSR, 28daS coel with 27BS, 29daS coel with 28BSR

Table 11i: Amount of standard and weight of sample for NOCS 6608/10-6

Well	Descript.	Standard	Amount	Weight	Sample
6608/10-6	1826.7 MDT	16969.6	1.400	13.0	T91/0001
6608/10-6	1910.5 MDT	11327.1	1.400	13.5	T91/0002
6608/10-6	1940.5 MDT	11707.4	1.400	15.9	T91/0003

Table 12a: Variation in Triaromatic Sterane Distribution (peak height) for NOCS 6608/10-6

<u>e11</u>	<u>Descript.</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
608/10-6	1826.7 MDT	0.58	0.60	0.34	0.31	0.43	T91/0001
608/10-6	1910.5 MDT	0.59	0.60	0.35	0.32	0.45	T91/0002
608/10-6	1940.5 MDT	0.57	0.58	0.34	0.31	0.43	T91/0003

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 NOCS 6608/10-6

<u>e11</u>	<u>Descript.</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
608/10-6	1826.7 MDT	0.44	0.33	0.30	0.25	T91/0001
608/10-6	1910.5 MDT	0.44	0.33	0.29	0.25	T91/0002
608/10-6	1940.5 MDT	0.43	0.33	0.28	0.24	T91/0003

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 NOCS 6608/10-6

Well	Descript.	Ratio1	Ratio2	Sample		
608/10-6	1826.7 MDT	0.46	0.83	T91/0001	Ratio1: $\frac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$	Ratio2: $g1 / g1 + i1$
608/10-6	1910.5 MDT	0.45	0.85	T91/0002		
608/10-6	1940.5 MDT	0.45	0.86	T91/0003		

Table 12d: Raw triaromatic sterane data (peak height) m/z 231 for NOCS 6608/10-6

Well	Descript.	a1	b1	c1	d1	e1	f1	g1	Sample
608/10-6	1826.7 MDT	23412.2	25491.0	9555.3	31301.8	21318.8	13890.6	17304.1	T91/0001
608/10-6	1910.5 MDT	24288.6	25541.5	9624.1	29874.9	21420.0	14233.2	16692.9	T91/0002
608/10-6	1940.5 MDT	23778.5	24860.6	9443.8	31550.0	21095.9	14665.6	17861.6	T91/0003

Table 12e: Raw monoaromatic sterane data (peak height) m/z 253 for NOCS 6608/10-6

Well	Descript.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
608/10-6	1826.7 MDT	16359.4	10016.2	11797.7	8816.0	20644.6	5392.7	18088.1	11269.3	3430.7	T91/0001
608/10-6	1910.5 MDT	15311.6	9705.9	10948.0	8410.4	19777.4	4255.2	17144.3	10593.5	2921.1	T91/0002
608/10-6	1940.5 MDT	14475.7	9590.2	11531.4	8456.2	19367.2	5261.9	18067.6	10798.1	2891.1	T91/0003

Table 13A: Light Hydrocarbons from Whole Oil GC for NOCS 6608/10-6

Well	Description	2,2DMC4	2,3DMC4	nC6	MCyC5	Benz	Sample
6608/10-6	1826.7 MDT	0.17	0.44	2.49	3.30	0.11	T91/0001
6608/10-6	1910.5 MDT	0.40	0.30	0.54	1.82	0.08	T91/0002
6608/10-6	1940.5 MDT	0.26	0.37	0.88	2.83	0.06	T91/0003

Table 13B: Light Hydrocarbons from Whole Oil GC for NOCS 6608/10-6

Well	Description	CyC6	2MC6	3MC6	1,3ci- DMCyC5	1,3tr- DMCyC5	1,2tr- DMCyC5	nC7	MCyC6	Tol	nC8	p/m- Xylene	Sample
6608/10-6	1826.7 MDT	5.91	1.81	1.43	0.84	0.79	1.45	3.38	12.69	3.23	4.51	6.64	T91/0001
6608/10-6	1910.5 MDT	5.38	1.00	0.48	1.47	1.30	1.18	0.31	5.09	0.90	1.93	0.63	T91/0002
6608/10-6	1940.5 MDT	6.73	0.95	0.81	1.20	1.12	1.66	0.24	13.47	0.21	1.60	2.46	T91/0003

Table 13C: Thompson's indices for NOCS 6608/10-6

Well	Description	A	B	X	W	C	I	F	H	U	R	S	Sample
6608/10-6	1826.7 MDT	0.04	0.96	1.47	0.19	0.32	1.05	0.27	11.76	1.79	1.87	14.65	T91/0001
6608/10-6	1910.5 MDT	0.15	2.90	0.33	0.15	0.08	0.37	0.06	1.88	2.96	0.31	1.35	T91/0002
6608/10-6	1940.5 MDT	0.07	0.88	1.54	0.09	0.06	0.44	0.02	0.90	2.38	0.25	3.38	T91/0003

## THOMPSON'S INDICES

$$A = \frac{\text{Benzene}}{nC6}$$

$$B = \frac{\text{Toluene}}{nC7}$$

$$X = \frac{\text{p/m-xylene}}{nC8}$$

$$W = \frac{\text{Benzene} * 10}{\text{CyC6}}$$

$$C = \frac{nC6 + nC7}{\text{CyC6} + \text{MCyC6}}$$

$$I = \frac{2\text{MC6} + 3\text{MC6}}{1,3\text{ciDMCyC5} + 1,3\text{trDMCyC5} + 1,2\text{trDMCyC5}}$$

$$F = \frac{nC7}{\text{MCyC6}}$$

$$H = \frac{nC7 * 100}{\text{CyC6} + 2\text{MC6} + 2,3\text{DMC4} + 3\text{MC6} + 1,3\text{ciDMCyC5} + 1,3\text{trDMCyC5} + 1,2\text{trDMCyC5} + nC7 + \text{MCyC6}}$$

$$U = \frac{\text{CyC6}}{\text{MCyC5}}$$

$$R = \frac{nC7}{2\text{MC6}}$$

$$S = \frac{nC6}{2,2\text{DMC4}}$$



Table 14 a: Volume Composition of Gas Samples from well NOCS 6608/10-6

Well name	Depth UOM	Upper depth	Lower depth	Sample type	Desc	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)	Sum C1 C5 (%)	Welness	iC4/nC4	Sample number
NOCS 6608/10-6	m	1826.7	1826.7	gas	MDT	93.9	2.2	1.3	0.62	0.64	0.31	0.19	0.93	99.2	0.05	0.97	T91/0004-0
NOCS 6608/10-6	m	1910.5	1910.5	gas	MDT	98.3	0.68	0.11	0.04	0.05	0.02	0.01	0.76	99.2	0.01	0.8	T91/0005-0
NOCS 6608/10-6	m	1940.5	1940.5	gas	MDT	94.8	1.9	0.85	0.39	0.43	0.21	0.14	1.3	98.7	0.04	0.91	T91/0006-0

Table 14 b: Isotopic Composition of Gas Samples from well NOCS 6608/10-6

Well name	Depth UOM	Upper depth	Lower depth	Sample type	Desc	C1 d13C	C1 dD	C2 d13C	C3 d13C	iC4 d13C	nC4 d13C	CO2 d13C	CO2 d18O	Sample number
NOCS 6608/10-6	m	1826.7	1826.7	gas	MDT	-47.3	-203	-27.3	-25.2	-25.4	-26.1	*-7.8	0	T91/0004-0
NOCS 6608/10-6	m	1910.5	1910.5	gas	MDT	-46.1	-205	-27	-24.3	*-22.6	*-23	*-1.7	0	T91/0005-0
NOCS 6608/10-6	m	1940.5	1940.5	gas	MDT	-46.5	-209	-27.6	-26.1	-22.4	-26.2	-2	-10.6	T91/0006-0

\* analysis performed on GC-IRMS instrument (for additional GC-IRMS data see the IFE report in appendix 4)

## 1 Introduction

Three gas samples from well 6608/10-6;

are analysed for gas and isotopic composition.

On the samples C<sub>1</sub> - C<sub>5</sub> and CO<sub>2</sub> are quantified. The  $\delta^{13}\text{C}$  value is measured on methane, ethane, propane, the butanes and CO<sub>2</sub>. In addition the  $\delta\text{D}$  value is measured on methane.

## 2 Analytical procedures

Aliquots of 0.2 ml are sampled with a syringe for analysis on a Porabond Q column connected with flame ionisation (FID) and thermal conductivity (TCD) detectors. The detection limit for the hydrocarbon gas components is 0.001  $\mu\text{l/ml}$ , for CO<sub>2</sub> 0.05  $\mu\text{l/ml}$ .

Due to low concentration of wet gas components the isotope values are determined in two different ways, standard procedure for test gases and with GC-C-IRMS. For the isotope analysis by standard procedure 5-10 ml of the gas is sampled with a syringe and then separated into the different gas components by a Carlo Erba 4200 gas chromatograph. The hydrocarbon gas components are oxidised in separate CuO-ovens in order to prevent cross contamination. The combustion products CO<sub>2</sub> and H<sub>2</sub>O are frozen into collection vessels and separated.

The combustion water is reduced with zinc metal in sealed quartz tubes to prepare hydrogen for isotopic analysis. The isotopic measurements are performed on a Finnigan MAT 251 and a Finnigan Delta mass spectrometer.

The analytical procedures are tested with a laboratory gas standard mixture. Based on repeated analysis of the gas standard, the reproducibility in the  $\delta^{13}\text{C}$  value is better than 0.5‰ PDB for all components. The reproducibility in the  $\delta\text{D}$  value is likewise better than 10‰.

For the GC-C-IRMS analysis aliquots are sampled with a syringe and analysed on a VG Isochrom connected on line to a VG Optima Mass spectrometer. A HP 5890 II with a Poraplot Q column is used for the separation and helium is used as a carrier gas. The injections are performed both in splitless and split mode, depending on the individual

methane concentrations. Determination of hydrogen or oxygen isotopic composition is not included in the analytical procedure.

The uncertainty in the reported results is  $\pm 1 \text{ ‰}$  for methane, ethane and  $\text{CO}_2$  and  $\pm 0.5 \text{ ‰}$  for the other components based on repeated analysis of IFEs laboratory standard (test gas concentration) over a period of 3 years.

IFEs value on NBS 22 is  $-29.77 \pm .06 \text{ ‰}$  PDB.

### 3 Results

The normalised volume composition of the gas samples is shown in Table 1. The stable isotope composition is shown in Table 2. The results from the standard procedure are shown in the first line of each sample while the GC-C-IRMS results are shown in the second line.

The molecular composition related to the carbon isotope variations in methane from the samples are plotted in Figure 1 (Schoell, 1983), the carbon and hydrogen variations in methane are plotted in Figure 2 (Schoell, 1983) and the carbon isotope variation in ethane related to the carbon isotope variations in methane in Figure 3 (Schoell, 1983).

*Table 1 Volume composition of gas samples (normalised values) from well 6608/10-6*

Sample	Depth m	IFE no GEO	C <sub>1</sub> %	C <sub>2</sub> %	C <sub>3</sub> %	iC <sub>4</sub> %	nC <sub>4</sub> %	iC <sub>5</sub> %	nC <sub>5</sub> %	CO <sub>2</sub> %	ΣC <sub>1</sub> -C <sub>5</sub> %	Wet- ness	iC <sub>4</sub> / nC <sub>4</sub>
MDT,	1910.5	20000740	98.3	0.68	0.11	0.04	0.05	0.02	0.01	0.76	99.2	0.01	0.94
MDT,	1826.7	20000741	93.9	2.2	1.3	0.62	0.64	0.31	0.19	0.93	99.1	0.05	0.97
MDT,	1940.5	20000742	94.8	1.9	0.85	0.39	0.43	0.21	0.14	1.3	98.7	0.04	0.91

Table 2 Isotopic composition of gas samples from well 6608/10-6

Well	Sample depth m	IFE no GEO	C <sub>1</sub> δ <sup>13</sup> C ‰ PDB	C <sub>1</sub> δ D ‰ SMOW	C <sub>2</sub> δ <sup>13</sup> C ‰ PDB	C <sub>3</sub> δ <sup>13</sup> C ‰ PDB	iC <sub>4</sub> δ <sup>13</sup> C ‰ PDB	nC <sub>4</sub> δ <sup>13</sup> C ‰ PDB	CO <sub>2</sub> δ <sup>13</sup> C ‰ PDB	CO <sub>2</sub> δ <sup>18</sup> O ‰ PDB
MDT,	1910.5	20000740	-46.1	-205	-27.0	-24.3	-	-	-	-
		*	-		-26.6	-22.3	-22.6	-23.0	-1.7	-
MDT,	1826.7	20000741	-47.3	-203	-27.3	-25.2	-25.4	-26.1	-	-
		*	-		-26.8	-24.4	-26.0	-25.4	-7.8	-
MDT,	1940.5	20000742	-46.5	-209	-27.6	-26.1	-22.4	-26.2	-2.0	-10.6
		*	-		-	-24.9	-25.3	-25.5	-2.8	-

\* GC-C-IRMS

#### 4 Literature

Schoell, M. (1983). Genetic characterisation of natural gases. *The American Association of Petroleum Geologists Bulletin*, 67,2225-2238.

**Appendix D : Mud samples**

**Appendix D1: Tables**

**Appendix D2: Gas Chromatograms**

**Appendix D1: Tables**

Table 1 Analytical Program for Muds

Table nos	Sample Depth (m)	Sample Type	Sample Code	Lithology Description	Picking for screening	Prøvepreparering (Kjernematriale)	Prøvepreparering (Losningsmiddel-Ekstraksjon)	Leco TOC	RockEval	GHM Pyrolysis-GC	Picking for Extraction	Topping	Iatroscan	SOXTEC Extraction	MPLC & Deasphaltene	EOM GC	Whole Oil GC	Sat GC (non-Q)	Aro GC (Non Quantitative)	Sat GCMS (Q or non-Q)	Aro GCMS (Non-Q)	Isotope of EOM/fractions	API Gravity (Westlab)	Vitrinite Reflectance	Visual Kerogen	Gas composition and isotopes (IFE)	
1800		m	U03/0001-0																								
1980		m	U03/0002-0																								
Total														2	1	2		1									

Sample type key: c = Cuttings s = SWC p = Conv core/ plug o=oil g= gas m=mud

Table 8a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6608/10-6 MUDS

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
1980.00	mud	bulk	-	44.5	0.2	0.2	0.1	43.9	0.5	44.0	-	0002-0B

Table 8b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6608/10-6 MUDS

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1980.00	mud	bulk	-	-	-	-	-	-	-	0002-0B

Table 8c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6608/10-6 MUDS

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1980.00	mud	bulk	-	-	-	-	-	-	-	0002-0B



Table 8d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6608/10-6 MUDS

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
1980.00	mud	bulk	0.53	0.53	0.22	98.72	100.00	1.06	98.94	1.18	0.84	0002-0B

Table 8e: MPLC Bulk Composition: Ratios for well NOCS 6608/10-6 MUDS

Depth unit of measure: m

Depth	Typ	Lithology	Sat Aro	HC Non-HC	Asp NSO	Sample
1980.00	mud	bulk	1.00	0.01	0.00	0002-0B

Table 9a<sup>1</sup> Peak areas Saturated Hydrocarbon GC data

Depth (m)	Sample type	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28
1980	mud	25716	59042	48417	83287	101085	95266	73602	81827	79976	54442	56387	46651	49610	46327	35897	30141	19503

Depth (m)	Sample type	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
1980	mud	23718	28565	15890	23144	0	0	U03/0002-0

Table 9B: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6608/10-6 MUDS

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Pristane</u> <u>nC17</u>	<u>Pristane</u> <u>Phytane</u>	<u>Pristane/nC17</u> <u>Phytane/nC18</u>	<u>Phytane</u> <u>nC18</u>	<u>CPI1</u>	<u>nC17</u> <u>nC17+nC27</u>	<u>Sample</u>
1980.00	mud	bulk	1.21	1.37	1.57	0.77	0.98	0.73	0002-0B