

Table 12c: Aromatisation of Steranes (peak height) for NOCS 6608/10-6

Well	Descript.	Ratio1	Ratio2	Sample		
6608/10-6	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: $g1 / g1 + I1$
6608/10-6	1910.5 MDT	0.45	0.85	T91/0002		
6608/10-6	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
6608/10-6	1826.7 MDT	23412.2	25491.0	9555.3	31301.8	21318.8	13890.6	17304.1	T91/0001
6608/10-6	1910.5 MDT	24288.6	25541.5	9624.1	29874.9	21420.0	14233.2	16692.9	T91/0002
6608/10-6	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
6608/10-6	1826.7 MDT	16359.4	10016.2	11797.7	8816.0	20644.6	5392.7	18088.1	11269.3	3430.7	T91/0001
6608/10-6	1910.5 MDT	15311.6	9705.9	10948.0	8410.4	19777.4	4255.2	17144.3	10593.5	2921.1	T91/0002
6608/10-6	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

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

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

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

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

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

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

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

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

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

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

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

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 (%)	Wetness	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 C₁ - C₅ and CO₂ are quantified. The $\delta^{13}\text{C}$ value is measured on methane, ethane, propane, the butanes and CO₂. In addition the δD 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 CO₂ 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 CO₂ and H₂O 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 δD 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 ± 1 ‰ for methane, ethane and CO₂ and ± 0.5 ‰ 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 $-29.77 \pm .06$ ‰ 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 ₁ %	C ₂ %	C ₃ %	iC ₄ %	nC ₄ %	iC ₅ %	nC ₅ %	CO ₂ %	ΣC ₁ -C ₅ %	Wet- ness	iC ₄ / nC ₄
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 ₁ δ ¹³ C ‰ PDB	C ₁ δ D ‰ SMOW	C ₂ δ ¹³ C ‰ PDB	C ₃ δ ¹³ C ‰ PDB	iC ₄ δ ¹³ C ‰ PDB	nC ₄ δ ¹³ C ‰ PDB	CO ₂ δ ¹³ C ‰ PDB	CO ₂ δ ¹⁸ 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.

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

Lower depth	Sample type	Desc	% Lith	Sat/Aro	HC/ Non-HC	Asp/ NSO	Sample number
1827.35	ccp	sandstone/sand	100	1.59	5.39	0.09	U02/0001-1
1830.52	ccp	bulk fraction		1.68	6.31	0.06	T92/0143-0
1832.98	ccp	sandstone/sand	95	1.62	3.92	0.09	U02/0003-1
1839.32	ccp	sandstone/sand	100	1.59	4.79	0.09	U02/0004-1
1843.34	ccp	sandstone/sand	100	1.63	4.54	0.08	U02/0005-1
1844.97	ccp	bulk fraction		1.74	5.48	0.15	T92/0144-0
1846.98	ccp	sandstone/sand	100	1.6	5.08	0.09	U02/0007-1
1849.86	ccp	sandstone/sand	100	1.63	4.41	0.09	U02/0008-1
1851.57	ccp	sandstone/sand	100	1.57	3.31	0.07	U02/0009-1
1853.16	ccp	bulk fraction		1.69	3.84	0.04	T92/0145-0
1855.8	ccp	carbonate	100	1.62	4.37	0.12	U02/0011-1
1864.7	ccp	sandstone/sand	100	1.41	3.67	0.14	U02/0014-1
1865.98	ccp	sandstone/sand	100	1.41	2.95	0.10	U02/0015-1
1867.3	ccp	bulk fraction		1.47	3.99	0.09	T92/0148-0
1869.52	ccp	sandstone/sand	100	1.39	3.23	0.08	U02/0017-1
1871.54	ccp	bulk fraction		1.4	4.31	0.05	T92/0149-0
1873.52	ccp	sandstone/sand	95	1.4	3.24	0.07	U02/0019-1
1875.6	ccp	sandstone/sand	100	1.41	4.01	0.09	U02/0020-1
1878.64	ccp	carbonate	100	1.41	4.51	0.09	U02/0021-1
1881	ccp	sandstone/sand	100	1.51	2.17	0.12	U02/0022-1
1883.9	ccp	bulk fraction		1.48	6.03	0.17	T92/0150-0
1885	ccp	bulk fraction		-	-	-	T92/0163-0
1885.98	ccp	sandstone/sand	100	1.49	2.81	0.11	U02/0024-1
1888	ccp	sandstone/sand	100	1.01	5.9	0.11	U02/0025-1
1890	ccp	sandstone/sand	100	1.37	5.11	0.09	U02/0026-1
1892.48	ccp	bulk fraction		1.5	4.98	0.05	T92/0152-0
1897	ccp	sandstone/sand	100	2.44	2.37	0.07	U02/0029-1
1901.2	ccp	sandstone/sand	100	1.98	5.58	0.10	U02/0030-1
1903.72	ccp	sandstone/sand	100	1.16	4.33	0.07	U02/0031-1
1907.14	ccp	sandstone/sand	100	1.2	5.12	0.07	U02/0033-1
1909.25	ccp	sandstone/sand	100	1.19	4.43	0.08	U02/0035-1
1911.75	ccp	sandstone/sand	100	1.21	4.44	0.08	U02/0036-1
1913.9	ccp	bulk fraction		1.12	5.45	0.04	T92/0155-0
1915.75	ccp	sandstone/sand	100	1.67	3.48	0.09	U02/0038-1

Table 8e MPLC Bulk Composition: Ratios for well NOCS 6608/1 J (reservoir study)

Lower depth	Sample type	Desc	% Lith	Sat/Aro	HC/ Non-HC	Asp/ NSO	Sample number
1917.42	ccp	sandstone/sand	100	1.54	4.42	0.07	U02/0039-1
1918	ccp	bulk fraction		-	-	-	T92/0164-0
1919.45	ccp	sandstone/sand	100	1.5	4.24	0.06	U02/0040-1
1921	ccp	sandstone/sand	100	1.58	4.03	0.07	U02/0041-1
1922.8	ccp	bulk fraction		1.6	4.57	0.04	T92/0156-0
1923.66	ccp	sandstone/sand	100	1.32	1.56	0.04	U02/0043-1
1924.65	ccp	bulk fraction		1.28	3	0.09	T92/0157-0
1925	ccp	bulk fraction		-	-	-	T92/0165-0
1926	ccp	sandstone/sand	100	1.88	5.63	0.09	U02/0045-1
1928	ccp	sandstone/sand	100	1.51	3.12	0.05	U02/0046-1
1930.52	ccp	sandstone/sand	100	1.57	3.34	0.06	U02/0047-1
1932.9	ccp	sandstone/sand	100	1.49	3.97	0.06	U02/0048-1
1934.7	ccp	sandstone/sand	100	1.43	2.38	0.02	U02/0049-1
1936.75	ccp	sandstone/sand	100	1.4	2.34	0.05	U02/0050-1
1938.6	ccp	sandstone/sand	100	1.31	1.55	0.05	U02/0051-1
1941.09	ccp	sandstone/sand	100	2.41	4.92	0.07	U02/0052-1
1943	ccp	bulk fraction		-	-	-	T92/0166-0
1943.5	ccp	sandstone/sand	100	1.7	3.06	0.05	U02/0053-1
1945.97	ccp	sandstone/sand	100	2.18	4.92	0.07	U02/0054-1
1947	ccp	sandstone/sand	100	2.23	5.81	0.10	U02/0055-1
1949.52	ccp	bulk fraction		1.76	5.36	0.04	T92/0158-0
1951.76	ccp	sandstone/sand	100	1.63	3.69	0.06	U02/0057-1
1953	ccp	sandstone/sand	100	1.45	4.12	0.05	U02/0058-1
1957.96	ccp	sandstone/sand	100	1.42	2.96	0.08	U02/0059-1
1959.68	ccp	sandstone/sand	100	1.44	3.54	0.10	U02/0060-1
1960.14	ccp	sandstone/sand	100	1.74	4.61	0.15	U02/0061-1
1960.67	ccp	bulk fraction		1.71	5.16	0.14	T92/0159-0
1963	ccp	sandstone/sand	100	1.59	2.39	0.06	U02/0063-1
1965.6	ccp	sandstone/sand	100	1.51	3.02	0.08	U02/0064-1
1967.24	ccp	sandstone/sand	100	2.29	4.14	0.09	U02/0065-1
1969.51	ccp	sandstone/sand	100	1.43	3.1	0.10	U02/0068-1
1970.81	ccp	bulk fraction		1.52	4.21	0.03	T92/0162-0
1971.33	ccp	sandstone/sand	100	1.38	3.48	0.06	U02/0070-1
1986	cut	sandstone/sand	80	0.49	1.38	0.39	U02/0075-1

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

Lower depth	Sample type	Desc	% Lith	Sat/Aro	HC/ Non-HC	Asp/ NSO	Sample number
1992	cut	sandstone/sand	75	0.47	0.15	0.18	U02/0076-1
2001	cut	sandstone/sand	45	0.28	0.11	0.23	U02/0077-1
2040	cut	sandstone/sand	65	0.2	0.06	0.18	U02/0078-1

Table 8F: Iatroscan TLC Bulk Composition: Absolute yields in mg/g rock for well NOCS 6608/10-6 RES

Depth unit of measure: m

Depth	Typ	Lithology	Sat HC	Aro HC	NSO	Asp	HC	Non-HC	EOM	Sample
1827.35	ccp	S/Sst	32.96	18.16	3.31	0.69	51.12	4.00	55.12	0001-1L
1855.80	ccp	Ca	8.37	4.42	0.85	0.27	12.79	1.12	13.91	0011-1L
1867.30	ccp	S/Sst	22.84	13.94	3.93	0.68	36.78	4.62	41.39	0072-1L
1875.60	ccp	S/Sst	21.89	13.39	2.67	0.64	35.28	3.31	38.59	0020-1L
1890.00	ccp	S/Sst	67.53	42.79	5.95	1.53	110.32	7.47	117.79	0026-1L
1892.48	ccp	S/Sst	19.82	12.01	2.79	0.25	31.83	3.04	34.87	0071-1L
1901.20	ccp	S/Sst	31.92	18.72	4.36	0.76	50.64	5.12	55.76	0030-1L
1911.75	ccp	S/Sst	76.37	45.84	10.10	1.81	122.20	11.91	134.11	0036-1L
1924.65	ccp	S/Sst	28.55	19.03	4.79	1.09	47.59	5.88	53.46	0073-1L
1938.60	ccp	S/Sst	5.60	2.45	0.89	0.17	8.06	1.06	9.12	0051-1L
1949.52	ccp	S/Sst	39.21	18.65	5.76	0.36	57.86	6.12	63.98	0074-1L
1957.96	ccp	S/Sst	16.05	9.43	2.16	0.51	25.48	2.67	28.15	0059-1L
1959.68	ccp	S/Sst	25.43	15.61	3.39	0.87	41.04	4.26	45.30	0060-1L
1971.33	ccp	S/Sst	20.26	14.60	2.22	0.48	34.86	2.70	37.55	0070-1L

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

Depth unit of measure: m

Depth	Typ	Lithology	Sat HC	Aro HC	NSO	Asp	Total	HC	Non-HC	Recov. Iatr.	Recov. Asp	Sample
1827.35	ccp	S/Sst	59.80	32.95	6.00	1.26	100.00	92.74	7.26	0.74	1.01	0001-1L
1855.80	ccp	Ca	60.18	31.75	6.11	1.97	100.00	91.92	8.08	0.80	0.97	0011-1L
1867.30	ccp	S/Sst	55.17	33.67	9.51	1.65	100.00	88.85	11.15	0.89	0.97	0072-1L
1875.60	ccp	S/Sst	56.72	34.70	6.92	1.67	100.00	91.41	8.59	0.97	0.98	0020-1L
1890.00	ccp	S/Sst	57.33	36.33	5.05	1.30	100.00	93.65	6.35	0.95	0.99	0026-1L
1892.48	ccp	S/Sst	56.85	34.43	8.00	0.73	100.00	91.28	8.72	0.65	0.96	0071-1L
1901.20	ccp	S/Sst	57.24	33.58	7.81	1.37	100.00	90.82	9.18	0.77	0.98	0030-1L
1911.75	ccp	S/Sst	56.94	34.18	7.53	1.35	100.00	91.12	8.88	0.97	0.97	0036-1L
1924.65	ccp	S/Sst	53.41	35.60	8.96	2.03	100.00	89.01	10.99	0.78	0.98	0073-1L
1938.60	ccp	S/Sst	61.42	26.91	9.76	1.91	100.00	88.33	11.67	0.60	0.86	0051-1L
1949.52	ccp	S/Sst	61.29	29.14	9.00	0.57	100.00	90.43	9.57	0.30	0.98	0074-1L
1957.96	ccp	S/Sst	57.03	33.50	7.66	1.81	100.00	90.53	9.47	0.49	0.94	0059-1L
1959.68	ccp	S/Sst	56.13	34.47	7.48	1.93	100.00	90.59	9.41	0.83	0.94	0060-1L
1971.33	ccp	S/Sst	53.95	38.88	5.90	1.28	100.00	92.82	7.18	0.84	0.98	0070-1L

Table 9a¹ Saturated Hydrocarbon Gas Chromatography - Peak Areas - for well NOCS 6608/10-6 (reservoir study)

Lower depth	Sample type	Desc	% Lith	nC15	nC16	Norpris	nC17	Pristane	nC18	Phytane	nC19	nC20	nC21	nC22	nC23
1827.35	ccp	sandstone/sand	100	1401030	1500259	696385	1659310	1466730	1632599	836368	1742855	1452277	1209947	1127195	1063287
1830.52	ccp	bulk fraction		2714964	2674240	1182906	2788179	2515552	2628625	1247487	2727867	2292556	1970196	1790862	1658355
1832.98	ccp	sandstone/sand	95	2303951	2510292	1113305	2788481	2516838	2763633	1308558	2921493	2384458	2132647	2040319	1971785
1839.32	ccp	sandstone/sand	100	1633566	1953282	895268	2270579	1922245	2264931	1104372	2372250	1983841	1762714	1678894	1611478
1843.34	ccp	sandstone/sand	100	2626933	2792837	1218868	3029369	2677548	2693795	1366333	3163225	2615307	2260449	2198044	2029884
1844.97	ccp	bulk fraction		2427039	2481606	1100621	2660089	2159239	2469943	1171313	2537530	2074858	1838711	1686693	1538982
1846.98	ccp	sandstone/sand	100	1658532	1769540	759517	1917701	1615698	1910887	868165	1958934	1575047	1392915	1279762	1231680
1849.86	ccp	sandstone/sand	100	1327294	1592484	713958	1864850	1543930	1878605	857587	1978917	1662533	1407360	1277572	1216897
1851.57	ccp	sandstone/sand	100	1392929	1466733	612642	1584959	1279598	1535752	677483	1583932	1339568	1138239	1054650	1004752
1853.16	ccp	bulk fraction		987988	947866	405484	989778	799480	944759	444964	979362	853375	731902	678331	633178
1855.8	ccp	carbonate	100	942832	1032016	427860	1123028	890808	1089906	490270	1121040	958300	790956	721776	693624
1864.7	ccp	sandstone/sand	100	161134	168770	343937	244075	864357	302900	589026	219796	237434	160431	127836	163797
1865.98	ccp	sandstone/sand	100	130989	192434	420389	292636	1086738	379377	773967	294520	308023	218776	169165	201760
1867.3	ccp	bulk fraction		104908	138946	287982	192043	636632	216080	414989	144499	169567	125385	100744	114933
1869.52	ccp	sandstone/sand	100	0	125698	313336	192807	730573	203391	505630	156786	172213	99295	81143	92855
1871.54	ccp	bulk fraction		173459	216073	481832	322806	1083513	355811	718925	259338	275655	186791	144550	173277
1873.52	ccp	sandstone/sand	95	118662	158480	331367	239661	843364	315415	617088	256152	254169	171839	141223	151250
1875.6	ccp	sandstone/sand	100	90480	118743	245778	199001	620731	243020	441986	165378	174594	124063	100513	112666
1878.64	ccp	carbonate	100	204249	225200	203839	301644	423587	342728	286575	298011	284901	198363	162728	175613
1881	ccp	sandstone/sand	100	206070	248326	194518	311684	393476	308535	269232	348474	284287	196769	170656	176910
1883.9	ccp	bulk fraction		284263	266250	215598	305603	367954	287819	229870	267162	253138	192511	162499	159857
1885.98	ccp	sandstone/sand	100	239068	262626	223201	357240	429987	364989	295548	380064	314235	217895	176887	183799
1888	ccp	sandstone/sand	100	205897	223902	206348	295537	433906	315895	316846	254490	269338	161558	124841	154296
1890	ccp	sandstone/sand	100	184261	190947	229639	236875	382756	255090	265015	278988	193186	134784	95290	107118
1892.48	ccp	bulk fraction		283237	269176	250076	327832	459754	316065	318373	343632	248646	185318	144492	153566
1897	ccp	sandstone/sand	100	127199	141343	143602	194153	262617	226090	200983	293322	359516	307594	245375	197482
1901.2	ccp	sandstone/sand	100	92183	116078	183456	144412	261908	140668	202045	114493	115408	56317	51062	59170
1903.72	ccp	sandstone/sand	100	170835	161927	212910	224977	378236	216824	312925	156692	194250	109138	74641	95788
1907.14	ccp	sandstone/sand	100	0	0	146776	126448	272982	115188	234167	103904	92582	43356	0	0
1909.25	ccp	sandstone/sand	100	78894	89912	178162	154723	344142	166990	282906	87699	135465	58171	45347	56889
1911.75	ccp	sandstone/sand	100	111763	100097	221311	163707	379825	157560	315116	139632	123469	66259	42318	57053
1913.9	ccp	bulk fraction		96414	127016	223423	165456	384511	160739	307019	133400	148020	79556	58440	76984
1915.75	ccp	sandstone/sand	100	63682	153872	269184	193380	440427	211040	386037	137762	153655	73511	55065	69688
1917.42	ccp	sandstone/sand	100	0	0	261295	183208	396173	165358	347858	101395	130152	71260	46928	76349

Table 9a¹ Saturated Hydrocarbon Gas Chromatography - Peak Areas - for well NOCS 6608/10-6 (reservoir study)

Lower depth	Sample type	Desc	% Lith	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
1827.35	ccp	sandstone/sand	100	993904	882396	725342	711289	460070	427391	304276	234865	169324	222669	198443	U02/0001-1
1830.52	ccp	bulk fraction		1496281	1301564	1025254	960221	673461	634097	576066	409894	302250	405629	434516	T92/0143-0
1832.98	ccp	sandstone/sand	95	1861213	1794079	1274776	1150907	789195	716605	506742	403341	279275	338529	333759	U02/0003-1
1839.32	ccp	sandstone/sand	100	1524424	1335363	1077964	1054397	678827	626713	524513	333197	230855	280789	277205	U02/0004-1
1843.34	ccp	sandstone/sand	100	1851344	1620785	1239368	1106126	757360	661805	562187	378228	253683	318909	300745	U02/0005-1
1844.97	ccp	bulk fraction		1354683	1152354	898410	819250	567058	503251	474377	302128	235018	329451	395507	T92/0144-0
1846.98	ccp	sandstone/sand	100	1116395	1023235	823644	755621	527750	485694	423227	279437	186126	227199	216080	U02/0007-1
1849.86	ccp	sandstone/sand	100	1164205	992063	805696	739639	511792	475937	404191	258454	177793	226072	204179	U02/0008-1
1851.57	ccp	sandstone/sand	100	898127	814397	645003	585048	396887	365652	298774	190367	132262	165848	162376	U02/0009-1
1853.16	ccp	bulk fraction		564378	482311	386144	383929	258714	254977	214547	149560	107285	136325	145774	T92/0145-0
1855.8	ccp	carbonate	100	627450	540852	438208	404682	277928	269327	234816	151099	109186	131573	126944	U02/0011-1
1864.7	ccp	sandstone/sand	100	142187	138116	108688	120669	60617	82961	62295	49855	120481	0	0	U02/0014-1
1865.98	ccp	sandstone/sand	100	178816	179492	140725	166660	74159	0	0	0	0	0	0	U02/0015-1
1867.3	ccp	bulk fraction		100949	102834	67008	76161	46153	46480	34612	29369	39853	111843	147024	T92/0148-0
1869.52	ccp	sandstone/sand	100	92045	100688	65175	76466	44861	38222	47100	0	0	0	0	U02/0017-1
1871.54	ccp	bulk fraction		163496	165644	110687	135254	64634	77698	72720	55065	61962	181238	225231	T92/0149-0
1873.52	ccp	sandstone/sand	95	135645	168302	95972	105439	53660	72583	0	0	0	0	0	U02/0019-1
1875.6	ccp	sandstone/sand	100	97176	109888	70619	78900	38083	49519	43556	36127	39701	0	0	U02/0020-1
1878.64	ccp	carbonate	100	146280	152722	95659	107527	55591	61649	45933	35974	45823	0	0	U02/0021-1
1881	ccp	sandstone/sand	100	153157	163956	108343	117841	64550	71147	56523	46460	44424	0	0	U02/0022-1
1883.9	ccp	bulk fraction		142246	125120	95379	107284	61321	63608	50477	40271	39292	104888	129695	T92/0150-0
1885.98	ccp	sandstone/sand	100	161582	153655	107087	111633	60816	64387	88841	37667	44591	0	0	U02/0024-1
1888	ccp	sandstone/sand	100	119933	115926	80403	101276	43512	50695	0	0	0	0	0	U02/0025-1
1890	ccp	sandstone/sand	100	90497	100524	66463	90898	35822	48075	0	0	0	0	0	U02/0026-1
1892.48	ccp	bulk fraction		132955	128292	92246	105861	54039	71433	44597	40920	47618	135694	171516	T92/0152-0
1897	ccp	sandstone/sand	100	133497	107972	62365	85158	30527	0	0	0	0	0	0	U02/0029-1
1901.2	ccp	sandstone/sand	100	58336	54560	42620	48119	13951	0	0	0	0	0	0	U02/0030-1
1903.72	ccp	sandstone/sand	100	79417	86204	49252	78204	29951	0	0	0	0	0	0	U02/0031-1
1907.14	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	U02/0033-1
1909.25	ccp	sandstone/sand	100	44343	47808	32074	55546	17188	26908	31238	20440	28522	0	0	U02/0035-1
1911.75	ccp	sandstone/sand	100	44982	59175	37756	55271	18333	0	0	0	0	0	0	U02/0036-1
1913.9	ccp	bulk fraction		55361	61465	38817	66377	21255	38235	36047	22433	29006	123699	155360	T92/0155-0
1915.75	ccp	sandstone/sand	100	62303	0	0	0	0	0	0	0	0	0	0	U02/0038-1
1917.42	ccp	sandstone/sand	100	51004	50433	32810	56604	18067	0	0	0	0	0	0	U02/0039-1

Table 9a¹ Saturated Hydrocarbon Gas Chromatography - Peak Areas - for well NOCS 6608/10-6 (reservoir study)

Lower depth	Sample type	Desc	% Lith	nC15	nC16	Norpris	nC17	Pristane	nC18	Phytane	nC19	nC20	nC21	nC22	nC23
1919.45	ccp	sandstone/sand	100	120842	145985	270267	200258	453005	186320	384139	150572	153747	79303	61949	62844
1921	ccp	sandstone/sand	100	0	123865	249518	179641	355018	160957	333836	163061	147423	91185	72309	83517
1922.8	ccp	bulk fraction		94492	108089	186683	144097	324546	138723	257806	99888	101338	57306	41531	61898
1923.66	ccp	sandstone/sand	100	0	0	0	195234	416658	155844	379301	150502	134781	69861	47443	0
1924.65	ccp	bulk fraction		106844	127117	222826	172105	400879	148226	299605	134673	129151	75123	45043	60108
1926	ccp	sandstone/sand	100	83633	108402	200247	151238	325167	173000	276054	122717	160417	148400	95899	118115
1928	ccp	sandstone/sand	100	0	128480	226433	186227	459655	176366	375931	155497	174111	87111	53822	67198
1930.52	ccp	sandstone/sand	100	81292	109684	211507	164501	407166	172712	299528	116655	127275	62385	48209	39619
1932.9	ccp	sandstone/sand	100	0	141057	255658	217981	485940	238538	388404	176493	151614	85657	51514	57919
1934.7	ccp	sandstone/sand	100	88384	129365	250971	194601	460777	196380	382730	165172	154723	88441	47969	54657
1936.75	ccp	sandstone/sand	100	0	0	298720	198732	588074	254102	480391	287282	160779	69712	43567	62297
1938.6	ccp	sandstone/sand	100	0	80031	240119	165820	507850	216284	454437	225826	164690	80331	53091	68536
1941.09	ccp	sandstone/sand	100	0	191593	243523	268577	529889	339336	377416	296311	376185	365038	266066	257071
1943.5	ccp	sandstone/sand	100	216827	258667	336022	372940	726963	450311	504842	562165	432284	342217	270870	274214
1945.97	ccp	sandstone/sand	100	224814	262036	334737	339412	641818	374201	434672	412661	414346	342943	309582	269883
1947	ccp	sandstone/sand	100	179113	212630	283091	288915	566164	338370	395158	352225	391314	338863	294495	236486
1949.52	ccp	bulk fraction		271068	276206	358023	369833	690758	421910	454259	482086	370374	280346	233326	236347
1951.76	ccp	sandstone/sand	100	228150	292407	411526	404761	842805	451531	591057	426043	461302	370362	306679	293545
1953	ccp	sandstone/sand	100	234910	261414	340618	330260	661085	377996	452448	334720	312608	255189	211099	214169
1957.96	ccp	sandstone/sand	100	0	110371	275851	178410	538225	232763	456190	160782	156498	92222	60752	66058
1959.68	ccp	sandstone/sand	100	0	0	313340	225145	659456	235189	465477	232180	242642	159921	140922	151415
1960.14	ccp	sandstone/sand	100	0	0	276314	215675	570412	221825	388650	235394	258104	188507	164763	161528
1960.67	ccp	bulk fraction		97997	144334	285032	227943	654252	247551	422974	219372	210440	157713	125240	139760
1963	ccp	sandstone/sand	100	0	0	259765	206077	533468	253192	375504	195647	221758	176573	148582	172500
1965.6	ccp	sandstone/sand	100	0	0	230929	154912	371094	137468	309529	149815	124515	51498	42788	33207
1967.24	ccp	sandstone/sand	100	0	0	152455	113622	235135	170846	216280	230629	227071	187576	128912	0
1969.51	ccp	sandstone/sand	100	0	0	152507	78860	153841	137138	143414	0	0	0	0	0
1970.81	ccp	bulk fraction		54317	53984	160002	144871	182206	137412	139592	99768	96065	37188	18192	24055
1971.33	ccp	sandstone/sand	100	0	0	155909	64238	132782	101600	139467	60506	108118	0	0	0
1986	cut	sandstone/sand	80	210667	248179	223408	271555	244133	215623	141120	164244	156030	95464	68199	80066
1992	cut	sandstone/sand	75	164019	230630	214803	275050	374696	234017	182401	232873	181313	122627	101265	171776
2001	cut	sandstone/sand	45	72462	91668	81444	113919	161503	107081	74954	81573	70148	52315	46129	69766
2040	cut	sandstone/sand	65	0	17766	19187	32824	45002	33746	23564	25851	21493	16375	19207	36589

Table 9a¹ Saturated Hydrocarbon Gas Chromatography - Peak Areas - for well NOCS 6608/10-6 (reservoir study)

Lower depth	Sample type	Desc	% Lith	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
1919.45	ccp	sandstone/sand	100	60189	64641	43443	73675	0	0	0	0	0	0	0	U02/0040-1
1921	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	U02/0041-1
1922.8	ccp	bulk fraction		45360	49879	26309	47988	14248	24957	34718	24323	27720	109065	141108	T92/0156-0
1923.66	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	U02/0043-1
1924.65	ccp	bulk fraction		51069	50219	37930	62834	18329	33974	65926	21259	31114	130016	172930	T92/0157-0
1926	ccp	sandstone/sand	100	70491	0	0	0	0	0	0	0	0	0	0	U02/0045-1
1928	ccp	sandstone/sand	100	55835	68699	38807	69724	0	0	0	0	0	0	0	U02/0046-1
1930.52	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	U02/0047-1
1932.9	ccp	sandstone/sand	100	59371	73440	37125	65840	0	0	0	0	0	0	0	U02/0048-1
1934.7	ccp	sandstone/sand	100	49872	68709	39267	74645	20100	0	0	0	0	0	0	U02/0049-1
1936.75	ccp	sandstone/sand	100	44833	0	0	0	0	0	0	0	0	0	0	U02/0050-1
1938.6	ccp	sandstone/sand	100	50307	66817	41477	77213	22609	34420	81967	0	0	0	0	U02/0051-1
1941.09	ccp	sandstone/sand	100	206121	197543	124905	133681	97084	86797	100312	59553	45941	0	0	U02/0052-1
1943.5	ccp	sandstone/sand	100	258376	252767	189679	182074	112709	118237	125340	84904	72627	0	0	U02/0053-1
1945.97	ccp	sandstone/sand	100	234990	238622	161068	171130	90953	106776	120476	66948	70518	0	0	U02/0054-1
1947	ccp	sandstone/sand	100	232443	199795	157632	151711	88871	96560	113097	66917	59554	0	0	U02/0055-1
1949.52	ccp	bulk fraction		217348	209173	158328	158504	95115	104664	75006	63589	54954	136098	155417	T92/0158-0
1951.76	ccp	sandstone/sand	100	279423	287341	217954	217431	135766	151088	182697	107077	88420	0	0	U02/0057-1
1953	ccp	sandstone/sand	100	195903	196692	145080	149341	90798	97954	110598	68586	61954	0	0	U02/0058-1
1957.96	ccp	sandstone/sand	100	60082	84065	41731	71449	19409	0	0	0	0	0	0	U02/0059-1
1959.68	ccp	sandstone/sand	100	136241	139740	100879	117976	60508	70740	59080	49717	54027	0	0	U02/0060-1
1960.14	ccp	sandstone/sand	100	136114	133731	96045	111646	61096	69632	52694	44228	45388	0	0	U02/0061-1
1960.67	ccp	bulk fraction		131003	123246	92502	103882	54804	67800	59634	41291	48017	108737	133160	T92/0159-0
1963	ccp	sandstone/sand	100	123662	130288	86598	107669	59669	63015	47603	42081	46203	0	0	U02/0063-1
1965.6	ccp	sandstone/sand	100	38339	50476	31003	52089	0	0	0	0	0	0	0	U02/0064-1
1967.24	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	U02/0065-1
1969.51	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	U02/0068-1
1970.81	ccp	bulk fraction		27069	31094	33761	42900	17357	28774	57579	77367	28189	128412	169045	T92/0162-0
1971.33	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	U02/0070-1
1986	cut	sandstone/sand	80	51082	99637	37810	80039	22758	53284	25361	57072	25809	0	0	U02/0075-1
1992	cut	sandstone/sand	75	90204	193166	72875	169638	45097	126512	53307	75473	61421	0	0	U02/0076-1
2001	cut	sandstone/sand	45	41103	86784	31226	64836	19539	54410	22021	66490	19752	0	0	U02/0077-1
2040	cut	sandstone/sand	65	27439	50663	17971	42564	14604	31951	12757	33476	11972	0	0	U02/0078-1

Table 9a Quantitative Saturat. Hydrocarbon data (mg/g SAT) for well NO. J 6608/10-6 (reservoir study)

lower depth	Desc	nC15	nC16	iC18	nC17	Pr	nC18	Ph	nC19	nC20	nC21	nC22	nC23	nC24
1827.35m	sandstone/sand	10.30	11.03	5.12	12.20	10.78	12.00	6.15	12.81	10.68	8.89	8.29	7.82	7.31
1830.52m	bulk fraction	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
1832.98m	sandstone/sand	10.16	11.08	4.91	12.30	11.10	12.19	5.77	12.89	10.52	9.41	9.00	8.70	8.21
1839.32m	sandstone/sand	8.45	10.10	4.63	11.75	9.94	11.72	5.71	12.27	10.26	9.12	8.69	8.34	7.89
1843.34m	sandstone/sand	10.75	11.43	4.99	12.40	10.96	11.02	5.59	12.94	10.70	9.25	8.99	8.31	7.58
1844.97m	bulk fraction	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
1846.98m	sandstone/sand	10.25	10.93	4.69	11.85	9.98	11.81	5.36	12.10	9.73	8.61	7.91	7.61	6.90
1849.86m	sandstone/sand	9.73	11.67	5.23	13.67	11.31	13.77	6.28	14.50	12.18	10.31	9.36	8.92	8.53
1851.57m	sandstone/sand	11.59	12.21	5.10	13.19	10.65	12.78	5.64	13.18	11.15	9.47	8.78	8.36	7.47
1853.16m	bulk fraction	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
1855.80m	carbonate	10.89	11.91	4.94	12.97	10.28	12.58	5.66	12.94	11.06	9.13	8.33	8.01	7.24
1864.70m	sandstone/sand	1.52	1.59	3.24	2.30	8.15	2.86	5.55	2.07	2.24	1.51	1.21	1.54	1.34
1865.98m	sandstone/sand	0.99	1.46	3.19	2.22	8.24	2.88	5.87	2.23	2.34	1.66	1.28	1.53	1.36
1867.30m	bulk fraction	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
1869.52m	sandstone/sand	0.00	1.92	4.78	2.94	11.13	3.10	7.71	2.39	2.62	1.51	1.24	1.42	1.40
1871.54m	bulk fraction	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
1873.52m	sandstone/sand	1.44	1.92	4.02	2.91	10.24	3.83	7.49	3.11	3.09	2.09	1.72	1.84	1.65
1875.60m	sandstone/sand	1.48	1.94	4.01	3.25	10.13	3.96	7.21	2.70	2.85	2.02	1.64	1.84	1.59
1878.64m	carbonate	3.07	3.39	3.06	4.53	6.37	5.15	4.31	4.48	4.28	2.98	2.45	2.64	2.20
1881.00m	sandstone/sand	3.05	3.67	2.88	4.61	5.82	4.56	3.98	5.15	4.20	2.91	2.52	2.62	2.27
1883.90m	bulk fraction	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
1885.98m	sandstone/sand	3.38	3.72	3.16	5.06	6.09	5.17	4.18	5.38	4.45	3.08	2.50	2.60	2.29
1888.00m	sandstone/sand	2.26	2.46	2.27	3.25	4.77	3.47	3.48	2.80	2.96	1.78	1.37	1.70	1.32
1890.00m	sandstone/sand	1.92	1.99	2.39	2.46	3.98	2.65	2.76	2.90	2.01	1.40	0.99	1.11	0.94
1892.48m	bulk fraction	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
1897.00m	sandstone/sand	1.19	1.32	1.34	1.81	2.45	2.11	1.88	2.74	3.36	2.87	2.29	1.85	1.25
1901.20m	sandstone/sand	0.99	1.25	1.98	1.55	2.82	1.51	2.18	1.23	1.24	0.61	0.55	0.64	0.63
1903.72m	sandstone/sand	1.38	1.31	1.72	1.82	3.06	1.75	2.53	1.27	1.57	0.88	0.60	0.77	0.64
1907.14m	sandstone/sand	0.00	0.00	1.97	1.69	3.66	1.54	3.14	1.39	1.24	0.58	0.00	0.00	0.00
1909.25m	sandstone/sand	1.15	1.31	2.59	2.25	5.01	2.43	4.12	1.28	1.97	0.85	0.66	0.83	0.65
1911.75m	sandstone/sand	1.55	1.38	3.06	2.26	5.25	2.18	4.36	1.93	1.71	0.92	0.59	0.79	0.62
1913.90m	bulk fraction	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
1915.75m	sandstone/sand	0.66	1.60	2.81	2.02	4.59	2.20	4.03	1.44	1.60	0.77	0.57	0.73	0.65
1917.42m	sandstone/sand	0.00	0.00	2.98	2.09	4.52	1.89	3.97	1.16	1.49	0.81	0.54	0.87	0.58
1919.45m	sandstone/sand	1.21	1.46	2.70	2.00	4.53	1.86	3.84	1.51	1.54	0.79	0.62	0.63	0.60

Table 9a Quantitative Saturated Hydrocarbon data (mg/g SAT) for well NOCS 6608/10-6 (reservoir study)

lower depth	Desc	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34
1827.35m	sandstone/sand	6.49	5.33	5.23	3.38	3.14	2.24	1.73	1.24	1.64	1.46
1830.52m	bulk fraction	5.89	4.64	4.34	3.05	2.87	2.61	1.85	1.37	1.84	1.97
1832.98m	sandstone/sand	7.92	5.62	5.08	3.48	3.16	2.24	1.78	1.23	1.49	1.47
1839.32m	sandstone/sand	6.91	5.58	5.45	3.51	3.24	2.71	1.72	1.19	1.45	1.43
1843.34m	sandstone/sand	6.63	5.07	4.53	3.10	2.71	2.30	1.55	1.04	1.31	1.23
1844.97m	bulk fraction	5.62	4.38	3.99	2.76	2.45	2.31	1.47	1.15	1.61	1.93
1846.98m	sandstone/sand	6.32	5.09	4.67	3.26	3.00	2.61	1.73	1.15	1.40	1.34
1849.86m	sandstone/sand	7.27	5.90	5.42	3.75	3.49	2.96	1.89	1.30	1.66	1.50
1851.57m	sandstone/sand	6.78	5.37	4.87	3.30	3.04	2.49	1.58	1.10	1.38	1.35
1853.16m	bulk fraction	6.12	4.90	4.87	3.28	3.24	2.72	1.90	1.36	1.73	1.85
1855.80m	carbonate	6.24	5.06	4.67	3.21	3.11	2.71	1.74	1.26	1.52	1.47
1864.70m	sandstone/sand	1.30	1.02	1.14	0.57	0.78	0.59	0.47	1.14	0.00	0.00
1865.98m	sandstone/sand	1.36	1.07	1.26	0.56	0.00	0.00	0.00	0.00	0.00	0.00
1867.30m	bulk fraction	1.32	0.86	0.98	0.59	0.60	0.44	0.38	0.51	1.43	1.88
1869.52m	sandstone/sand	1.53	0.99	1.17	0.68	0.58	0.72	0.00	0.00	0.00	0.00
1871.54m	bulk fraction	1.34	0.89	1.09	0.52	0.63	0.59	0.44	0.50	1.46	1.82
1873.52m	sandstone/sand	2.04	1.17	1.28	0.65	0.88	0.00	0.00	0.00	0.00	0.00
1875.60m	sandstone/sand	1.79	1.15	1.29	0.62	0.81	0.71	0.59	0.65	0.00	0.00
1878.64m	carbonate	2.30	1.44	1.62	0.84	0.93	0.69	0.54	0.69	0.00	0.00
1881.00m	sandstone/sand	2.43	1.60	1.74	0.95	1.05	0.84	0.69	0.66	0.00	0.00
1883.90m	bulk fraction	1.57	1.20	1.35	0.77	0.80	0.64	0.51	0.49	1.32	1.63
1885.98m	sandstone/sand	2.18	1.52	1.58	0.86	0.91	1.26	0.53	0.63	0.00	0.00
1888.00m	sandstone/sand	1.27	0.88	1.11	0.48	0.56	0.00	0.00	0.00	0.00	0.00
1890.00m	sandstone/sand	1.05	0.69	0.95	0.37	0.50	0.00	0.00	0.00	0.00	0.00
1892.48m	bulk fraction	1.47	1.05	1.21	0.62	0.82	0.51	0.47	0.54	1.55	1.96
1897.00m	sandstone/sand	1.01	0.58	0.80	0.29	0.00	0.00	0.00	0.00	0.00	0.00
1901.20m	sandstone/sand	0.59	0.46	0.52	0.15	0.00	0.00	0.00	0.00	0.00	0.00
1903.72m	sandstone/sand	0.70	0.40	0.63	0.24	0.00	0.00	0.00	0.00	0.00	0.00
1907.14m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1909.25m	sandstone/sand	0.70	0.47	0.81	0.25	0.39	0.45	0.30	0.42	0.00	0.00
1911.75m	sandstone/sand	0.82	0.52	0.76	0.25	0.00	0.00	0.00	0.00	0.00	0.00
1913.90m	bulk fraction	0.80	0.51	0.87	0.28	0.50	0.47	0.29	0.38	1.62	2.03
1915.75m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1917.42m	sandstone/sand	0.58	0.37	0.65	0.21	0.00	0.00	0.00	0.00	0.00	0.00
1919.45m	sandstone/sand	0.65	0.43	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 9a Quantitative Saturated Hydrocarbon data (mg/g SAT) for well NOCS 6608/10-6 (reservoir study)

lower depth	Desc	nC15	nC16	iC18	nC17	Pr	nC18	Ph	nC19	nC20	nC21	nC22	nC23	nC24
1921.00m	sandstone/sand	0.00	1.38	2.78	2.00	3.96	1.79	3.72	1.82	1.64	1.02	0.81	0.93	0.00
1922.80m	bulk fraction	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
1923.66m	sandstone/sand	0.00	0.00	0.00	2.05	4.36	1.63	3.97	1.58	1.41	0.73	0.50	0.00	0.00
1924.65m	bulk fraction	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
1926.00m	sandstone/sand	0.91	1.18	2.18	1.65	3.54	1.88	3.01	1.34	1.75	1.62	1.04	1.29	0.77
1928.00m	sandstone/sand	0.00	1.34	2.36	1.94	4.79	1.84	3.92	1.62	1.81	0.91	0.56	0.70	0.58
1930.52m	sandstone/sand	0.94	1.26	2.44	1.90	4.70	1.99	3.45	1.35	1.47	0.72	0.56	0.46	0.00
1932.90m	sandstone/sand	0.00	1.32	2.39	2.04	4.54	2.23	3.63	1.65	1.42	0.80	0.48	0.54	0.55
1934.70m	sandstone/sand	0.88	1.29	2.50	1.94	4.59	1.96	3.81	1.65	1.54	0.88	0.48	0.54	0.50
1936.75m	sandstone/sand	0.00	0.00	3.17	2.11	6.24	2.69	5.09	3.05	1.70	0.74	0.46	0.66	0.48
1938.60m	sandstone/sand	0.00	0.70	2.09	1.44	4.42	1.88	3.96	1.97	1.43	0.70	0.46	0.60	0.44
1941.09m	sandstone/sand	0.00	1.97	2.51	2.77	5.46	3.49	3.89	3.05	3.87	3.76	2.74	2.65	2.12
1943.50m	sandstone/sand	2.50	2.98	3.87	4.30	8.37	5.19	5.82	6.48	4.98	3.94	3.12	3.16	2.98
1945.97m	sandstone/sand	2.26	2.63	3.36	3.41	6.44	3.75	4.36	4.14	4.16	3.44	3.11	2.71	2.36
1947.00m	sandstone/sand	1.91	2.26	3.01	3.07	6.02	3.60	4.20	3.75	4.16	3.61	3.13	2.52	2.47
1949.52m	bulk fraction	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
1951.76m	sandstone/sand	2.13	2.73	3.84	3.77	7.86	4.21	5.51	3.97	4.30	3.45	2.86	2.74	2.61
1953.00m	sandstone/sand	2.56	2.85	3.71	3.59	7.19	4.11	4.92	3.64	3.40	2.78	2.30	2.33	2.13
1957.96m	sandstone/sand	0.00	1.29	3.22	2.08	6.27	2.71	5.32	1.87	1.82	1.07	0.71	0.77	0.70
1959.68m	sandstone/sand	0.00	0.00	3.53	2.54	7.44	2.65	5.25	2.62	2.74	1.80	1.59	1.71	1.54
1960.14m	sandstone/sand	0.00	0.00	2.83	2.21	5.85	2.28	3.99	2.41	2.65	1.93	1.69	1.66	1.40
1960.67m	bulk fraction	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
1963.00m	sandstone/sand	0.00	0.00	3.02	2.40	6.21	2.95	4.37	2.28	2.58	2.05	1.73	2.01	1.44
1965.60m	sandstone/sand	0.00	0.00	2.66	1.78	4.27	1.58	3.56	1.72	1.43	0.59	0.49	0.38	0.44
1967.24m	sandstone/sand	0.00	0.00	1.59	1.18	2.45	1.78	2.26	2.40	2.37	1.96	1.34	0.00	0.00
1969.51m	sandstone/sand	0.00	0.00	1.44	0.75	1.45	1.30	1.36	0.00	0.00	0.00	0.00	0.00	0.00
1970.81m	bulk fraction	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
1971.33m	sandstone/sand	0.00	0.00	1.62	0.67	1.38	1.05	1.45	0.63	1.12	0.00	0.00	0.00	0.00
1986.00m	sandstone/sand	3.08	3.63	3.27	3.97	3.57	3.15	2.06	2.40	2.28	1.40	1.00	1.17	0.75
1992.00m	sandstone/sand	2.69	3.78	3.52	4.51	6.15	3.84	2.99	3.82	2.97	2.01	1.66	2.82	1.48
2001.00m	sandstone/sand	2.65	3.35	2.98	4.16	5.90	3.91	2.74	2.98	2.56	1.91	1.69	2.55	1.50
2040.00m	sandstone/sand	0.00	3.11	3.36	5.75	7.89	5.92	4.13	4.53	3.77	2.87	3.37	6.41	4.81

Table 9a Quantitative Saturated Hydrocarbon data (mg/g SAT) for well NOCS 6608/10-6 (reservoir study)

lower depth	Desc	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34
1921.00m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1922.80m	bulk fraction	0.72	0.38	0.69	0.21	0.36	0.50	0.35	0.40	1.57	2.04
1923.66m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1924.65m	bulk fraction	0.61	0.46	0.76	0.22	0.41	0.80	0.26	0.38	1.57	2.09
1926.00m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1928.00m	sandstone/sand	0.72	0.40	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1930.52m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1932.90m	sandstone/sand	0.69	0.35	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1934.70m	sandstone/sand	0.68	0.39	0.74	0.20	0.00	0.00	0.00	0.00	0.00	0.00
1936.75m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1938.60m	sandstone/sand	0.58	0.36	0.67	0.20	0.30	0.71	0.00	0.00	0.00	0.00
1941.09m	sandstone/sand	2.03	1.29	1.38	1.00	0.89	1.03	0.61	0.47	0.00	0.00
1943.50m	sandstone/sand	2.91	2.18	2.10	1.30	1.36	1.44	0.98	0.84	0.00	0.00
1945.97m	sandstone/sand	2.39	1.62	1.72	0.91	1.07	1.21	0.67	0.71	0.00	0.00
1947.00m	sandstone/sand	2.13	1.68	1.61	0.95	1.03	1.20	0.71	0.63	0.00	0.00
1949.52m	bulk fraction	2.64	2.00	2.00	1.20	1.32	0.95	0.80	0.69	1.72	1.96
1951.76m	sandstone/sand	2.68	2.03	2.03	1.27	1.41	1.70	1.00	0.82	0.00	0.00
1953.00m	sandstone/sand	2.14	1.58	1.63	0.99	1.07	1.20	0.75	0.67	0.00	0.00
1957.96m	sandstone/sand	0.98	0.49	0.83	0.23	0.00	0.00	0.00	0.00	0.00	0.00
1959.68m	sandstone/sand	1.58	1.14	1.33	0.68	0.80	0.67	0.56	0.61	0.00	0.00
1960.14m	sandstone/sand	1.37	0.99	1.15	0.63	0.71	0.54	0.45	0.47	0.00	0.00
1960.67m	bulk fraction	1.60	1.20	1.35	0.71	0.88	0.78	0.54	0.62	1.41	1.73
1963.00m	sandstone/sand	1.52	1.01	1.25	0.69	0.73	0.55	0.49	0.54	0.00	0.00
1965.60m	sandstone/sand	0.58	0.36	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1967.24m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1969.51m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1970.81m	bulk fraction	0.44	0.47	0.60	0.24	0.40	0.81	1.09	0.40	1.81	2.38
1971.33m	sandstone/sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1986.00m	sandstone/sand	1.46	0.55	1.17	0.33	0.78	0.37	0.83	0.38	0.00	0.00
1992.00m	sandstone/sand	3.17	1.20	2.78	0.74	2.08	0.87	1.24	1.01	0.00	0.00
2001.00m	sandstone/sand	3.17	1.14	2.37	0.71	1.99	0.80	2.43	0.72	0.00	0.00
2040.00m	sandstone/sand	8.88	3.15	7.46	2.56	5.60	2.24	5.87	2.10	0.00	0.00