

Table 7 Vitrinite Reflectance Statistics

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Ro	No. readings	Std.dev.	Fluor.	Sample number
NOCS 6506/6-1	1864	1900	cut	bulk fraction	0.24	20	0.03		U01/0001-0
NOCS 6506/6-1	1972	2008	cut	bulk fraction	0.32	14	0.06		U01/0004-0
NOCS 6506/6-1	2080	2116	cut	bulk fraction	0.56	7	0.12		U01/0007-0
NOCS 6506/6-1	2188	2200	cut	bulk fraction	0.4	9	0.1		U01/0010-0
NOCS 6506/6-1	2280	2320	cut	bulk fraction	0.33	16	0.03		U01/0013-0
NOCS 6506/6-1	2360	2400	cut	bulk fraction	0.34	20	0.03		U01/0015-0
NOCS 6506/6-1	2480	2520	cut	bulk fraction	0.36	20	0.04		U01/0018-0
NOCS 6506/6-1	2560	2600	cut	bulk fraction	0.37	20	0.04		U01/0020-0
NOCS 6506/6-1	2680	2720	cut	bulk fraction	0.35	20	0.04		U01/0023-0
NOCS 6506/6-1	2760	2800	cut	bulk fraction	0.35	20	0.04		U01/0025-0
NOCS 6506/6-1	2880	2920	cut	bulk fraction	0.42	8	0.04		U01/0029-0
NOCS 6506/6-1	3099	3099	swc	bulk fraction	0.42	20	0.04		U01/0102-0
NOCS 6506/6-1	3162	3180	cut	bulk fraction	0.41	10	0.05		U01/0041-0
NOCS 6506/6-1	3252	3270	cut	bulk fraction	0.43	12	0.05		U01/0046-0
NOCS 6506/6-1	3315.2	3315.2	swc	bulk fraction	0.38	9	0.03		U01/0104-0
NOCS 6506/6-1	3378	3396	cut	bulk fraction	0.41	7	0.04		U01/0053-0
NOCS 6506/6-1	3486	3504	cut	bulk fraction	0.44	9	0.04		U01/0059-0
NOCS 6506/6-1	3599.8	3599.8	swc	bulk fraction	0.43	14	0.04		U01/0106-0
NOCS 6506/6-1	3684	3702	cut	bulk fraction	0.43	10	0.06		U01/0069-0
NOCS 6506/6-1	3774	3792	cut	bulk fraction	0.51	20	0.04		U01/0074-0
NOCS 6506/6-1	3857.8	3857.8	swc	bulk fraction	0.67	14	0.05		U01/0109-0
NOCS 6506/6-1	3950.5	3950.5	swc	bulk fraction	0.7	15	0.07		U01/0110-0
NOCS 6506/6-1	3990	4008	cut	bulk fraction	0.73	20	0.08		U01/0086-0
NOCS 6506/6-1	4070.5	4070.5	swc	bulk fraction	0.74	6	0.08		U01/0111-0
NOCS 6506/6-1	4080	4098	cut	bulk fraction	0.76	11	0.08		U01/0091-0
NOCS 6506/6-1	4132.5	4132.5	swc	bulk fraction	1.08	5	0.1		U01/0114-0
NOCS 6506/6-1	4150.5	4150.5	swc	bulk fraction	0.96	11	0.22		U01/0115-0
NOCS 6506/6-1	4188	4206	cut	bulk fraction	1.18	18	0.2		U01/0097-0
NOCS 6506/6-1	4254.5	4254.5	swc	bulk fraction	1.39	20	0.17		U01/0117-0
NOCS 6506/6-1	4276	4296	cut	bulk fraction	1.2	20	0.14		U01/0170-0
NOCS 6506/6-1	4386	4400	cut	bulk fraction	1.17	20	0.12		U01/0176-0
NOCS 6506/6-1	4450	4470	cut	bulk fraction	1.18	20	0.17		U01/0180-0
NOCS 6506/6-1	4590	4610	cut	bulk fraction	1.17	12	0.14		U01/0187-0
NOCS 6506/6-1	4690	4710	cut	bulk fraction	1.29	20	0.11		U01/0192-0
NOCS 6506/6-1	4750	4770	cut	bulk fraction	1.18	20	0.14		U01/0195-0
NOCS 6506/6-1	4790	4800	cut	bulk fraction	1.21	20	0.11		U01/0197-0
NOCS 6506/6-1	4881	4920	cut	bulk fraction	1.42	20	0.14		U01/0200-0
NOCS 6506/6-1	5030	5040	cut	bulk fraction	1.58	24	0.33		U01/0201-0

Table 7 Vitrinite Reflectance Statistics

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Ro	No. readings	Std.dev.	Fluor.	Sample number
NOCS 6506/6-1	5111	5121	cut	bulk fraction	NDP	0	0		U01/0203-0
NOCS 6506/6-1	5212	5212	ccp	bulk fraction	1.77	20	0.15		U01/0121-0
NOCS 6506/6-1	5226	5226	ccp	bulk fraction	1.7	2	0.17		U01/0127-0
NOCS 6506/6-1	5230	5230	ccp	bulk fraction	1.65	40	0.15		U01/0131-0
NOCS 6506/6-1	5236	5236	ccp	bulk fraction	1.77	5	0.19		U01/0136-0
NOCS 6506/6-1	5243	5243	ccp	bulk fraction	1.76	20	0.24		U01/0141-0
NOCS 6506/6-1	5247	5247	ccp	bulk fraction	1.88	20	0.13		U01/0144-0
NOCS 6506/6-1	5250	5250	ccp	bulk fraction	1.9	20	0.16		U01/0146-0
NOCS 6506/6-1	5254	5254	ccp	bulk fraction	1.83	20	0.19		U01/0150-0
NOCS 6506/6-1	5259	5259	ccp	bulk fraction	1.66	12	0.24		U01/0155-0
NOCS 6506/6-1	5267	5267	ccp	bulk fraction	1.68	20	0.13		U01/0162-0
NOCS 6506/6-1	5270	5270	ccp	bulk fraction	1.96	1	0		U01/0165-0
NOCS 6506/6-1	5309	5319	cut	bulk fraction	NDP	0	0		U01/0208-0
NOCS 6506/6-1	5351	5361	cut	bulk fraction	1.81	11	0.26		U01/0209-0
NOCS 6506/6-1	5361	5370	cut	bulk fraction	1.27	6	0.43		U01/0210-0
NOCS 6506/6-1	5370	5400	cut	bulk fraction	1.31	7	0.36		U01/0211-0
NOCS 6506/6-1	5400	5439	cut	bulk fraction	2.23	20	0.17		U01/0212-0
NOCS 6506/6-1	5439	5481	cut	bulk fraction	2.17	4	0.16		U01/0213-0
NOCS 6506/6-1	5481	5491	cut	bulk fraction	1.91	21	0.45		U01/0214-0

Vitrinite reflectance comments

A: Maturity of NOCS Well 6506/6-1							
Sample	Vitrinite Reflectance			UV Fluorescence			Comments
Lower Depth (m)	R.o.Ave.	No.	Conf.	Form	Content	Colour	
1900	0.24	20	C	Spores	Trace	Y	Shale. Forams. Glauconite
2008	0.32	14	D	Spores	Trace	Y+Y/O	Shale
2116	0.39	2	E	Spores	Trace	Y-Y/O + MO	Shale
	0.62	5					
2200	0.26	2	E	Spores	Low	Y-Y/O	Shale, soft. Phytoclasts small
	0.34	2					
	0.48	5					
2320	0.33	16	D	Algae	Trace	Y	Shale, soft. Phytoclasts rather degraded
				Spores	Low	Y+Y/O	
2400	0.33	20	C	Spores	Low	Y-Y/O	Shale, silty
2520	0.36	20	D	Algae	Trace	Y	Shale, silty
				Spores	Low	Y-Y/O	
2600	0.37	20	D	Spores	Low	Y+Y/O	Shale
2720	0.35	20	D	Spores	Trace	Y/O	Shale
2800	0.35	20	D	Algae	Trace	Y	Shale
				Spores	Low	Y+Y/O	
2920	0.42	8	D	Algae	Trace	Y	60%marl, 40%shale, Tr.cement
				Spores	Low	Y/O	
3099	0.42	20	D	Spores	Trace	Y/O	Shaly marl. Phytoclasts small
3180	0.42	10	D	Algae	Trace	Y-Y/O	Shale, iron oxide traces. Phytoclasts degraded
				Spores	Trace	Y/O	
3270	0.43	12	D	Spores	Low	Y/O	Shale, soft. Iron oxide traces. Phyt. rather degraded
3315.2	0.38	9	C	Spores	Trace	Y/O	Shale
3396	0.41	7	D	Spores	Low	Y/O+LO	Shale, iron oxides
						Faint	
3504	0.44	9	D	Spores	Trace	Y/O-LO	Shale. Iron oxide traces. Phytoclasts rather degraded
3599.8	0.43	14	D	Algae	Trace	Y/O	Shale. Phytoclasts rather degraded
				Spores	Trace	LO	
3702	0.43	10	D	Spores	Trace	LO	50%shale, 50%marl. Iron oxide traces. Phyt. rather degraded
3792	0.51	20	E	Spores	Trace	LO	Shale, silty, rather pyritic. Phytoclasts degraded. V. variable r.o. local blackening of amorphinite - possible roasting?
3815	N.D.P.	-	-	Spores	Trace	LO	Shale. Phytoclasts v.small - mostly sub-micron - identification difficult.
3857.8	0.67	14	D	Spores	Trace	L-MO	Shale, rather pyritic
3950.5	0.70	15	D	Spores	Trace	MO	Shale
4008	0.73	20	D	Spores	Trace	MO	Shale, silty, soft. Phyt. degraded & shattered
4070.5	0.74	6	E	-	-	-	Shale. Phyt. as sub-micron specks. Identification difficult
4098	0.76	11	E	Spores	Trace	MO	90%shale, 10%slit. - soft. Phytoclasts v.degraded specks
4132.5	1.08	5	E	-	-	-	Shale. Phytoclasts as sub-micron specks - identification difficult

Vitrinite reflectance comments

A: Maturity of NOCS Well 6506/6-1							
Sample	Vitrinite Reflectance				UV Fluorescence		Comments
Lower Depth (m)	R.o.Ave.	No.	Conf.	Form	Content	Colour	
4150.5	0.81	7	E	Spores	Trace	DO	Shale. Phytoclasts as specks - lowest r.o. material measured
	1.21	4					
4206	0.91	5	E	-	-	-	Shale. Phytoclasts mostly sub-micron specks
	1.28	13					
4254.5	1.39	20	E	Algae	Trace	Y/O	Shale. Phytoclasts mostly sub-micron specks
4296	1.20	20	D	Carbonate	Low	DO	Shale. Phytoclasts mostly specks
4400	1.17	20	D	Carbonate	Low	Y/O	Shale, pyritic
4470	1.18	20	D	Carbonate	Low	Y/O	Shale, pyritic
4610	1.17	12	D	-	-	-	Shale. Fluor. from H/C dissolving in immersion oil
4710	1.30	20	D	Carbonate	Trace	Y/O	Shale. Phytoclasts small - lowest r.o. material measured
4770	1.18	20	D	Amorphinite	Moderate	LO	Shale. Phyt. degraded - lowest r.o. material measured
4800	1.21	20	D	Carbonate	Low	Y/O	Shale, silty. Phyt. very degraded - lowest r.o. measured
4920	1.42	20	D	Carbonate	Low	Y/O	Shale, rather pyritic. Phytoclasts degraded
5212	1.72	20	C	Carbonate	Moderate	LO	Silty shale, rather pyritic
5226	1.70	2	E	Carbonate	Low	Y	Calc. Sst. Traces of interstitial clay
5230	1.60	20	C	Carbonate	Moderate	L+MO	Silty shale
5236	1.77	5	D	Carbonate	Low	Y	Sst., fine grained, traces of interstitial clay
5243	1.76	20	D	-	-	-	Sst. Phytoclasts in occasional clay wisps
5247	1.88	20	C	Carbonate	Moderate	Y+Y/O	Shale
5250	1.90	20	C	Carbonate	Moderate	MO	Siltstone
5254	1.83	20	C	-	-	-	Silty Sst.
5259	1.66	12	D	Carbonate	Low	Y+Y/O	Silty Sst.
5267	1.68	20	C	Carbonate	Low	L-MO	Siltstone
5270	1.96	1	E	Carbonate	Low	Y	Silty Sst.
5040	1.40	17	E	Carbonate	Low	Y	50%rock flour; 40%silty Sst; 10%shale. Rust contamination
	2.03	7					Phytoclasts small, mostly in shale. Identification difficult
5121	N.D.P.	-	-	-	-	-	100%rock flour, no true sediment
5319	N.D.P.	-	-	-	-	-	100%rock flour, no true sediment
5361	1.81	11	E	-	-	-	100%rock flour; tr.shale; tr.siltstone. Shale pyritic.
							Phytoclasts in shale
5370	0.63	1	E	Carbonate	Low	Y-Y/O	50%rock flour; 50% silty Sst. Identification difficult -
	1.40	5					lowest r.o. material measured
5400	0.55	1	E	Amorphinite	Low	M-DO	100%rock flour; tr.shale; tr.Sst. Phytoclasts in shale
	1.44	6		in shale			
5439	2.23	20	D	Amorph/Carb.	Moderate	Y-DO	90%shale; 10%rock flour. Shale silty in parts & very soft for this
				H/C specks	Low	Y	level of maturity. Phytoclasts degraded
5481	2.17	4	E	-	-	-	100%rock flour; tr.shale.
5491	2.19	13	E	Amorph/Carb.	Very Low	Y/O	70%rock flour; 30%silty shale. Shale soft for this level of r.o.
	1.44	8					

Organic petrography

B: Organic Petrography of NOCS Well 6506/6-1										
Sample Lower Depth (m)	Amorphinite	Bitumen	Phytoclasts Content	Composition (%)						Comments
				Liptinite				Vitr.	Inert./ Reworked	
				Algae	Spores	Cuticle	Resin			
1900	Moderate	-	Trace	-	Tr.	-	-	70	30	Forams.
2008	Var.-Mod.	-	Trace	-	Tr.	-	-	10	90	Phytoclasts as specks
2116	Most Low	-	Trace	-	Tr.	-	-	Trace	100	-
	Few Mod.									
2200	Var.-	-	Low	-	10	-	-	Trace	90	Phytoclasts small
	Low-Mod.									
2320	Low-Mod.	-	Low-Mod.	Tr.	10	-	-	Trace	90	Phyt. rather degraded
2400	Low-Mod.	-	Moderate	-	10	-	-	Trace	90	-
2520	Moderate	-	Low-Mod.	Tr.	10	-	-	Trace	90	-
2600	Low-Mod.	-	Low-Mod.	-	10	-	-	Trace	90	-
2720	Low-Mod.	-	Low-Mod.	-	Tr.	-	-	Trace	100	-
2800	Low-Mod.	-	Low-Mod.	Tr.	10	-	-	Trace	90	-
2920	Low+Mod.	-	Low-Mod.	Tr.	10	-	-	Trace	90	-
3099	Low-Mod.	-	Low-Mod.	-	Tr.	-	-	Trace	100	Phytoclasts small
3180	Moderate	-	Low-Mod.	Tr.	Tr.	-	-	Trace	100	Phytoclasts degraded
3270	Mod.-Rich	-	Low	-	10	-	-	Trace	90	Rather degraded
3315.2	Moderate	-	Low	-	Tr.	-	-	Trace	100	-
3396	Moderate	-	Low-Mod.	-	10	-	-	Trace	90	-
3504	Moderate	-	Low-Mod.	-	Tr.	-	-	Trace	100	Phytoclasts rather degraded
3599.8	Moderate	-	Low-Mod.	Tr.	Tr.	-	-	Trace	100	Phyt.as rather degraded specks
3702	Moderate	-	Moderate	-	Tr.	-	-	Trace	100	Phytoclasts rather degraded
3792	Var.-	-	Moderate	-	Tr.	-	-	Trace	100	Phytoclasts degraded. Some blackening of amorphinite
	Low+Mod.									
3815	Low-Mod.	-	Very Low	-	Tr.	-	-	Trace	100	Phyt. mostly sub-micron specks
3857.8	Mod.-Rich	-	Low	-	Tr.	-	-	Trace	100	Phytoclasts as specks
3950.5	Moderate	-	Low	-	Tr.	-	-	Trace	100	Phytoclasts small
4008	Most Mod.	-	Moderate	-	Tr.	-	-	Trace	100	Phyt. degraded & shattered
	Few Rich									
4070.5	Moderate	-	Low	-	-	-	-	Trace	100	Phyt. mostly sub-micron specks
4098	Var.-	-	Mod.-Rich	-	Tr.	-	-	Trace	100	Phyt. mostly v.degraded specks
	Low-Rich									
4132.5	Low-Mod.	-	Low-Mod.	-	-	-	-	100(Phyt)	-	Phyt. almost wholly sub-micron
4150.5	Mod.-Rich	-	V. Low	-	Tr.	-	-	Trace	100	Phytoclasts as specks
4206	Var.-Mod.	-	Moderate	-	-	-	-	Trace	100	Phyt.mostly sub-micron specks
4254.5	Moderate	-	Moderate	Tr.	-	-	-	100(Phyt)	-	Phyt.mostly sub-micron specks
4296	Mod.-Rich	-	Moderate	-	-	-	-	100(Phyt)	-	Phyt. high r.o. specks.

Organic petrography

B: Organic Petrography of NOCS Well 6506/6-1										
Sample Lower Depth (m)	Amorphinite	Bitumen	Phytoclasts Content	Composition (%)						Comments
				Liptinite				Vitr.	Inert./ Reworked	
				Algae	Spores	Cuticle	Resin			
4400	V.Rich	-	Low-Mod.	-	-	-	-	Trace	100	DO fluor. from carbonate
4470	Rich	-	Moderate	-	-	-	-	Trace	100	Y/O fluor. from carbonate
4610	Rich	-	Low	-	-	-	-	Trace	100	Fluor from H/C dissolving in immersion oil
4710	Rich	-	Trace	-	-	-	-	100(Phyt)	-	Phyt. small. Y/O fluor from carbonate
4770	Rich	-	Trace	-	-	-	-	100(Phyt)	-	Phytoclasts degraded
4800	Rich	-	Trace	-	-	-	-	100(Phyt)	-	LO fluor. from amorphinite Phytoclasts v.degraded
4920	Rich	-	Low-Mod.	-	-	-	-	10	90	Y/O fluor. from carbonate Phytoclasts degraded
5212	Rich	-	Low-Mod.	-	-	-	-	20	80	Y/O fluor. from carbonate LO fluor. from carbonate
5226	-	Low	Vrt.Barren	-	-	-	-	Trace	Trace	Bit. as stain + wisps in interstit. clay + carb. Carb. fluor. Y
5230	Rich	-	Low-Mod.	-	-	-	-	20	80	L+MO fluor. from carbonate
5236	Mod-Rich	Low	Trace	-	-	-	-	Trace	Trace	Bit.as interstitial films. Y fluor. from carbonate
5243	Rich in clay wisps	-	Trace	-	-	-	-	Trace	Trace	Phyt. in clay wisps
5247	Rich	-	Low-Mod.	-	-	-	-	100(Phyt)	-	Y-Y/O fluor. from carbonate
5250	Rich	-	Low-Mod.	-	-	-	-	30	70	MO fluor. from Carbonate
5254	Rich in clay wisps	-	Low	-	-	-	-	30	70	-
5259	Mod+Rich in clay	-	Trace	-	-	-	-	Trace	Trace	Y+Y/O fluor. from carbonate
5267	Mod.	-	Low	-	-	-	-	40	60	L-MO fluor. from carbonate
5270	Low-Mod.	-	Vrt.Barren	-	-	-	-	One	Trace	Y Fluor. from carbonate
5040	Most Mod. Few Rich	-	Very Low	-	-	-	-	Trace	100	Phyt. mostly in shale, very small Y fluorescence from carbonate
5121	-	-	-	-	-	-	-	-	-	No true sediment present
5319	-	-	-	-	-	-	-	-	-	No true sediment present
5361	Rich in shale	-	Trace	-	-	-	-	100(Phyt)	-	Phytoclasts in shale
5370	Mod. in interstitial clay	-	Trace	-	-	-	-	100(Phyt)	-	Y-Y/O fluor. from carbonate
5400	Mod+Rich in shale	-	Trace	-	-	-	-	Tr. (Phyt)	-	Phytoclasts in shale M-DO fluor. from amorphinite
5439	Rich	-	Low-Mod.	-	-	-	-	100(Phyt)	-	Phyt. degraded. Y fluor. from

Organic petrography

B: Organic Petrography of NOCS Well 6506/6-1														
Sample Lower Depth (m)	Amorphinite	Bitumen	Phytoclasts Content	Composition (%)						Vitr.	Inert./ Reworked	Comments		
				Liptinite				Algae	Spores				Cuticle	Resin
											H/C specks. Y-DO from amorphinite/carbonate			
5481	Rich	-	Trace	-	-	-	-	Tr.(Phyt)	-	-	-			
5491	Rich	-	Very Low	-	-	-	-	100(Phyt)	-	-	Y/O fluor from amorphinite/carbonate			

Table 8a Extraction-MPLC wts

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	Rock ext./Wh.oil	EOM/Top.oil	Sat.	Aro.	NSO	Asph.	TOC(e)	HC	Non-HC
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	9.85	190	2.34	1.67	176.74	9.25	1.45	4.01	185.99
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	9.89	17.8	9.09	1.59	3.51	3.61	1.11	10.68	7.12
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	17.16	10.8	0.61	0.86	5.15	4.18	6.09	1.47	9.33
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	17.74	16.8	1.2	1.35	9.44	4.82	8.18	2.55	14.25
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	19.15	15.6	1.2	0.86	12.52	1.02	2.72	2.06	13.54
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	4.1	2.9	0.15	0.6	1.35	0.8	0.8	0.75	2.15
NOCS 6506/6-1	5267	5267	ccp	other	30	9.74	17.9	12.39	0.79	3.93	0.8	0.44	13.17	4.73
NOCS 6506/6-1	5400	5439	cut	bulk fraction		4.88	5.8	0.63	0.38	3.79	1	2.75	1.01	4.79



Table 8a Extraction-MPLC wts

Lower depth (m)	Sample number
2008	U01/0004-2
3599.8	U01/0106-1
4386	U01/0175-1
4450	U01/0179-1
4770	U01/0195-1
5230	U01/0131-1
5267	U01/0162-2
5439	U01/0212-0

Table 8d MPLC % fractions

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	Sat/EOM	Aro/EOM	Asph/EOM	NSO/EOM	HC/EOM	Non-HC/EOM	Sat/Aro
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	1.23	0.88	4.87	93.02	2.11	97.89	1.4
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	51.07	8.96	20.26	19.71	60.03	39.97	5.7
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	5.68	7.95	38.71	47.67	13.62	86.38	0.71
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	7.13	8.03	28.67	56.17	15.16	84.84	0.89
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	7.7	5.5	6.52	80.28	13.2	86.8	1.4
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	5.17	20.69	27.59	46.55	25.86	74.14	0.25
NOCS 6506/6-1	5267	5267	ccp	other	30	69.2	4.39	4.44	21.97	73.59	26.41	15.75
NOCS 6506/6-1	5400	5439	cut	bulk fraction		10.89	6.53	17.24	65.34	17.42	82.58	1.67

Table 8d MPLC % fractions

Lower depth (m)	HC/Non-HC	Sample number
2008	0.02	U01/0004-2
3599.8	1.5	U01/0106-1
4386	0.16	U01/0175-1
4450	0.18	U01/0179-1
4770	0.15	U01/0195-1
5230	0.35	U01/0131-1
5267	2.79	U01/0162-2
5439	0.21	U01/0212-0

Table 9a Saturated hydrocarbon gas chromatography: peak areas

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	866911	467484	185660	355726	313096	437051	656599	283327	258235
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	7782586	3408415	1090851	2696889	2356752	1990779	815637	1405253	809808
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	605006	875879	237743	709216	424183	948845	261053	509109	301722
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	4354536	3221473	642401	2049979	1012821	1773657	501799	866091	697093
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	2475176	1912612	469455	1156217	680036	1092653	315489	502534	316851
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	301389	513625	250400	405708	307688	329864	189882	156167	118902
NOCS 6506/6-1	5267	5267	ccp	other	30	9549422	2611018	721022	1221986	1123916	451331	204265	213965	129393
NOCS 6506/6-1	5400	5439	cut	bulk fraction		329253	905261	270177	814881	457330	1195050	336829	466886	266548

Table 9a Saturated hydrocarbon gas chromatography: peak areas

Lower depth (m)	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
2008	114554	170786	91852	111783	93730	40564	60309	86460	82413	77085	0	0	0	0	U01/0004-2
3599.8	524170	360450	255997	185492	192601	123902	126773	99025	93689	50986	0	0	0	0	U01/0106-1
4386	213253	120369	60769	61367	81857	36785	26527	0	0	0	0	0	0	0	U01/0175-1
4450	387169	190738	74289	86030	67997	41205	38544	0	0	0	0	0	0	0	U01/0179-1
4770	107599	127033	28916	57802	54221	40277	22710	0	0	0	0	0	0	0	U01/0195-1
5230	52110	0	0	0	0	0	0	0	0	0	0	0	0	0	U01/0131-1
5267	74481	73144	62549	74127	80023	75453	60824	47245	40528	38256	32114	33499	27688	0	U01/0162-2
5439	143598	128602	51764	66057	97439	67323	113410	0	0	0	0	0	0	0	U01/0212-0

Table 9b Saturated hydrocarbon gas chromatography: Peak area ratios

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	Prist./nC17	Prist./Phyt.	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phytane/nC18
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	0.88	0.48	0.59	0.95	1.5
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	0.87	2.89	2.13	1.2	0.41
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	0.6	1.62	2.17	2.03	0.28
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	0.49	2.02	1.75	1.71	0.28
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	0.59	2.16	2.04	1.35	0.29
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	0.76	1.62	1.32	0	0.58
NOCS 6506/6-1	5267	5267	ccp	other	30	0.92	5.5	2.03	1	0.45
NOCS 6506/6-1	5400	5439	cut	bulk fraction		0.56	1.36	1.99	2.36	0.28

Table 9b Saturated hydrocarbon gas chromatography: Peak area ratios

Lower depth (m)	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
2008	0.86	1.22	U01/0004-2
3599.8	0.96	0.68	U01/0106-1
4386	0.96	0.41	U01/0175-1
4450	0.98	0.4	U01/0179-1
4770	0.98	0.44	U01/0195-1
5230	1	0.68	U01/0131-1
5267	0.95	0.79	U01/0162-2
5439	0.88	0.4	U01/0212-0

Saturated hydrocarbon gas chromatography: peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	nC15	nC16	Norpristane	nC17	Pristane
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	196420	116342	30697	79316	58408
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	1254699	702456	178487	520127	251352
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	142240	184357	39634	137390	61605
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	792006	628883	110998	406856	123022
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	477855	382482	78781	222642	81032
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	69182	119453	38293	68449	45306
NOCS 6506/6-1	5267	5267	ccp	other	30	1347986	569583	125838	233180	93159
NOCS 6506/6-1	5400	5439	cut	bulk fraction		76868	189418	43304	154888	67664



Saturated hydrocarbon gas chromatography: peak heights

Lower depth (m)	nC18	Phytane	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34
2008	97860	147924	57018	46815	25581	29001	17758	17513	13372	9010	9455	12924	13763	11923	0	0	0	0
3599.8	402264	98393	269775	176195	124987	82262	59207	38828	34896	23563	23352	15750	15553	8284	0	0	0	0
4386	186524	40088	87054	68134	29719	27588	11480	12610	9430	6851	5200	0	0	0	0	0	0	0
4450	358320	60535	165586	118250	54860	46081	18641	17912	9155	7162	6597	0	0	0	0	0	0	0
4770	211109	39104	87132	69964	29376	28334	8810	10305	7053	5460	5057	0	0	0	0	0	0	0
5230	57783	24341	19455	17853	7939	0	0	0	0	0	0	0	0	0	0	0	0	0
5267	104364	27685	41392	25076	14146	13396	12729	14268	13578	13326	10643	7678	6403	6455	6372	5631	5516	0
5439	215020	49038	82429	64634	30256	27576	11852	12032	8707	6655	6699	0	0	0	0	0	0	0

Saturated hydrocarbon gas chromatography: peak heights

Lower depth (m)	Sample number
2008	U01/0004-2
3599.8	U01/0106-1
4386	U01/0175-1
4450	U01/0179-1
4770	U01/0195-1
5230	U01/0131-1
5267	U01/0162-2
5439	U01/0212-0

Saturated hydrocarbon gas chromatography: peak height ratios

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	Prist./nC17	Prist./Phyt.	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phytane/nC18
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	0.74	0.39	0.49	0.9	1.51
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	0.48	2.55	1.98	1.2	0.24
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	0.45	1.54	2.09	1.44	0.21
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	0.3	2.03	1.79	1.41	0.17
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	0.36	2.07	1.96	1.49	0.19
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	0.66	1.86	1.57	0	0.42
NOCS 6506/6-1	5267	5267	ccp	other	30	0.4	3.36	1.51	1	0.27
NOCS 6506/6-1	5400	5439	cut	bulk fraction		0.44	1.38	1.92	1.57	0.23

Saturated hydrocarbon gas chromatography: peak height ratios

Lower depth (m)	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
2008	0.89	1.16	U01/0004-2
3599.8	0.96	0.38	U01/0106-1
4386	0.96	0.31	U01/0175-1
4450	0.98	0.24	U01/0179-1
4770	0.98	0.28	U01/0195-1
5230	1	0.55	U01/0131-1
5267	0.96	0.36	U01/0162-2
5439	0.96	0.32	U01/0212-0

Aromatic hydrocarbon gas chromatography: peak areas

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	2MN	1MN	BPh	2EN	1EN	2.6+2.7DMN
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	0	0	0	0	0	0
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	33552	35087	9928	37310	33687	84721
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	0	0	8173	0	0	15346
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	0	0	0	0	0	25665
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	0	0	0	0	0	0
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	0	0	0	0	0	0
NOCS 6506/6-1	5267	5267	ccp	other	30	0	0	0	0	0	0
NOCS 6506/6-1	5400	5439	cut	bulk fraction		0	0	0	0	0	0

Aromatic hydrocarbon gas chromatography: peak areas

Lower depth (m)	1.6DMN	1.5DMN	1.3.7TMN	1.3.6TMN	1.3.5TMN	1.4.6+2.3.6TMN	P	3MP	2MP	9MP	1MP	DBT	4MDBT	2+3MDBT	1MDBT
2008	0	0	0	0	18136	28401	0	0	0	0	0	0	0	0	0
3599.8	137367	37299	31632	74497	56973	72263	250884	71235	91099	92672	100594	0	0	0	0
4386	16525	0	10341	27166	12941	17445	37266	19195	35930	14259	17173	0	0	0	0
4450	18593	0	16965	32616	19261	28287	84756	37865	62395	27829	25014	0	0	0	0
4770	0	0	0	0	0	0	18718	13140	27093	0	0	0	0	0	0
5230	0	0	0	0	0	0	86120	25500	38924	0	0	0	0	0	0
5267	0	0	0	0	0	0	95924	20321	38916	0	0	0	0	0	0
5439	0	0	0	0	0	0	64471	16733	21058	0	0	0	0	0	0

Aromatic hydrocarbon gas chromatography: peak areas

Lower depth (m)	Sample number
2008	U01/0004-2
3599.8	U01/0106-1
4386	U01/0175-1
4450	U01/0179-1
4770	U01/0195-1
5230	U01/0131-1
5267	U01/0162-2
5439	U01/0212-0

Table 10a-b Aromatic hydrocarbon gas chromatography: peak area ratios

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/Ph	4/1MDBT
NOCS 6506/6-1	1972	2008	cut	shale/claystone	60	0	0	0	0	0	0	0	0	0
NOCS 6506/6-1	3599.8	3599.8	swc	shale/claystone	100	0.96	2.27	0.07	0.91	0.55	0.62	0.73	0	0
NOCS 6506/6-1	4368	4386	cut	shale/claystone	100	0	0	0.49	2.09	1.2	1.57	1.12	0	0
NOCS 6506/6-1	4440	4450	cut	shale/claystone	100	0	0	0	2.49	1.09	1.36	1.06	0	0
NOCS 6506/6-1	4750	4770	cut	shale/claystone	95	0	0	0	0	3.22	4.34	2.33	0	0
NOCS 6506/6-1	5230	5230	ccp	shale/claystone	100	0	0	0	0	1.12	1.36	1.07	0	0
NOCS 6506/6-1	5267	5267	ccp	other	30	0	0	0	0	0.93	1.22	0.96	0	0
NOCS 6506/6-1	5400	5439	cut	bulk fraction		0	0	0	0	0.88	0.98	0.93	0	0



Table 10a-b Aromatic hydrocarbon gas chromatography: peak area ratios

Lower depth (m)	(3+2)/1MDBT	F1	F2	Sample number
2008	0	0	0	U01/0004-2
3599.8	0	0.46	0.26	U01/0106-1
4386	0	0.64	0.42	U01/0175-1
4450	0	0.65	0.41	U01/0179-1
4770	0	1	0.67	U01/0195-1
5230	0	1	0.6	U01/0131-1
5267	0	1	0.66	U01/0162-2
5439	0	1	0.56	U01/0212-0