

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 9a¹ 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	99768	96065	37188	18192
1974	cut	shale/claystone	25	7415	37907	27603	46739	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 9a¹ 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	26949	0	16456	0	0	0	0	0	T92/0108-2
2049	cut	shale/claystone	15	19662	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

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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

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Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane/nC17	Phytane	nC17	Sample	
			nC17	Phytane	Phytane/nC18	nC18	CPI1		nC17+nC27
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

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Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
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

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: $27\beta S / 27\beta S + 27\alpha R$

Ratio 2: $29\alpha S / 29\alpha S + 29\alpha R$ (%)

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

Ratio 4: $27\beta S + 27\beta R + 27\alpha R + 27\alpha S / 29\beta S + 29\beta R + 29\alpha R + 29\alpha S$

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

Ratio 6: $21\alpha + 22\alpha / 21\alpha + 22\alpha + 29\alpha S + 29\beta R + 29\beta S + 29\alpha R$

Ratio 7: $21\alpha + 22\alpha / 21\alpha + 22\alpha + 28\alpha S + 28\alpha S + 29\alpha R + 29\alpha S + 29\beta R + 29\beta S + 29\alpha R$

Ratio 8: $29\beta R + 29\beta S / 29\alpha S + 29\beta R + 29\beta S + 29\alpha R$

Ratio 9: $29\alpha S / 29\alpha R$

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

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

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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	30O	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	16695.8	47957.7	32097.6	11078.8	10615.7	24219.8	14066.4	17169.6	0157-0
		55557.3	27164.4	18327.9	33467.0	11369.2	10497.1	20831.7	28442.7		
		7187.2	19752.4	36453.4	29088.0	21600.9					
1949.52	bulk	26184.8	13247.1	37146.0	22734.4	8009.1	7653.3	18763.1	10777.4	12942.4	0158-0
		43819.0	20575.3	13575.8	24254.0	8456.4	7549.6	17412.0	20945.9		
		5035.0	14598.1	25721.4	21305.8	16220.2					
1967.68	Sh/Clst	100702.6	49874.4	53269.3	34985.1	13442.9	12745.1	25316.8	14205.5	22784.4	0160-1
		58161.1	32732.8	25168.2	33101.8	12053.7	11710.9	23645.8	30486.2		
		9228.3	20905.3	39162.9	29710.4	26779.0					
1970.81	bulk	38768.4	19292.3	50738.6	31574.9	12022.8	11713.3	26851.3	14650.5	18411.5	0162-0
		55446.1	29191.9	19498.3	34957.3	12064.8	10921.6	20616.9	30069.6		
		7497.5	20577.3	38297.3	29985.0	22990.9					
2007.00	Sh/Clst	3432.6	3132.3	2421.0	1322.1	615.5	455.1	1313.7	852.1	4148.2	0108-2
		3912.0	4090.5	2230.9	2416.4	1102.3	1597.9	3445.8	1865.0		
		2201.5	1228.1	4565.9	3600.8	4897.1					
2058.00	Sh/Clst	2810.1	1826.1	2575.9	1385.9	600.7	505.3	1454.7	758.6	2961.5	0123-2
		3456.0	2435.6	1819.5	2107.2	837.3	629.5	2843.4	1674.0		
		1764.8	1227.5	3665.5	3147.9	4321.7					

* 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

Depth unit of measure: m

Depth	Lithology	27 β BR	27 β BS	28 β BR	28 β BS	29 β BR	29 β BS	30 β BR	30 β 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

Depth	Lithology	25nor28a β	25nor30a β	Sample
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

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

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	27d β S	27d β R	27daR	27daS	28d β S	28d β R	28daR*	Sample
		29d β S*	28daS*	27aaR	29d β R	29daR	28aaS	29daS*	28 β β S		
		28aaR	29aaS	29 β β R	29 β β S	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, 29d β S coel with 27 β β R, 28daS coel with 27 β β S, 29daS coel with 28 β β R

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*	28BBS		
		28aaR	29aaS	29BBR	29BBS	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 27BBS, 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	27d β S	27d β R	27daR	27daS	28d β S	28d β R	28daR*	Sample
		29d β S*	28daS*	27aaR	29d β R	29daR	28aaS	29daS*	28 β β S		
		28aaR	29aaS	29 β β R	29 β β S	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, 29d β S coel with 27 β β R, 28daS coel with 27 β β S, 29daS coel with 28 β β R

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

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_m). The photometer is calibrated daily against a standard of known reflectance (%R_m= 0.588) and routinely (daily) checked against two other standards of significant different reflectances (%R_m=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

Analysis type:		Vitrinite reflectance							
Well:		6608/10-6							
Number of samples:		13							
Time period for analysis:		July 2000							
Analysis performed by:		K. Aasgaard, IFE							
Analysis ordered by:		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	ooooo	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	ooooo	G	bulk
20000950	2061	DC	coal/sst	0,31	0,05	25	ooooo	G	bulk
20000951	2106	DC	coal	0,31	0,04	25	ooooo	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	ooooo	G	bulk
20000954	1907,5	CCP	coal	0,33	0,04	25	ooooo	G	bulk
20000955	1968,46	CCP	coal/clyst	0,38	0,04	23	ooooo	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	silst	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		
ooooo	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 +		
Options legend:		-				may give too low vitrinite reflectance sample value
		o				reliable vitrinite reflectance sample value
		+				may give too high vitrinite reflectance sample value

Appendix C1: Tables

Table 1 Analytical Program for oils and gases

Sample Depth (m)	Sample Type	Sample Code	Lithology Description	Picking for screening	Prøvepreparering (Kjemematriale)	Prøvepreparering (Losningsmiddel-Ekstraksjon)	Leco TOC	RockEval	GHM Pyrolysis-GC	Picking for Extraction	Topping	Introsan	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)	Vitrimite 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
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
Total											3	3		3		3	3	3	3	3	3				3
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 9a¹ 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	$\frac{\text{Pristane}}{\text{nC17}}$	$\frac{\text{Pristane}}{\text{Phytane}}$	$\frac{\text{Pristane/nC17}}{\text{Phytane/nC18}}$	$\frac{\text{Phytane}}{\text{nC18}}$	CPI1	$\frac{\text{nC17}}{\text{nC17+nC27}}$	Sample
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