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GEOCHEMISTRY

WELL NOCS 6407/6-4

Part 1

BA91-685-1

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REGISTRERT

OLJEDIREKTORATET

Client: Mobil Exploration Norway

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APPENDIX 1: LIST OF TABLES

1. Light Hydrocarbons (a-c)
2. Lithology Description
3. Rock-Eval Table
4. Pyrolysis Gas Chromatography Data
5. Extraction Tables (a-d)
6. Saturated Hydrocarbon Ratios
7. Aromatic Hydrocarbon Ratios
8. Thermal Maturity Data
9. Visual Kerogen Data
10. Isotope Analysis of C₁₅+ Fractions
11. Gas Chromatography - Mass Spectrometry (a-i)

APPENDIX 2: REFLECTANCE HISTOGRAMS

**APPENDIX 3: THERMAL EXTRACTION AND PYROLYSIS
GAS CHROMATOGRAMS**

APPENDIX 4: CHROMATOGRAMS

APPENDIX 5: GAS CHROMATOGRAPHY - MASS SPECTROMETRY

INTRODUCTION

Canned samples from the interval 1090 - 3120 m, sidewall-core samples between 1117 and 3105 m and core samples covering 2659.5 - 3087.0 m were supplied by the client from well NOCS 6407/6-4. Headspace and occluded gas analyses were performed on 100 samples covering the interval 1090 - 3120 m. Ninety Rock-Eval and TOC analyses were performed over the interval 1117 - 3120 m. From these results the following numbers of samples were chosen for follow-up analyses:

Thermal extraction and pyrolysis GC	31 samples
Extraction of EOM	20 samples
MPLC separation, gas chromatography of EOM, saturated and aromatic fractions	15 samples
GC-MS of saturate and aromatic fractions	15 samples
Carbon isotope analysis of 4xC ₁₅ + fractions and EOM	15 samples
Visual kerogen, SCI	32 samples
Vitrinite reflectance	26 samples

The following stratigraphic tops have been used in this report, these being preliminary tops (i.e. lacking microfossil confirmation) supplied by the client:

APPENDIX 1

TABLES

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1090.00	907	7	3	1	1	5	919	12	1.3	1.00
1130.00	5405	13	10	6	1	86	5435	30	0.6	6.00
1170.00	72554	179	123	27	12	34	72895	341	0.5	2.25
1210.00	41504	144	78	13	5	58	41744	240	0.6	2.60
1250.00	58287	183	133	30	12	44	58645	358	0.6	2.50
1290.00	47392	168	162	40	16	51	47778	386	0.8	2.50
1330.00	20880	99	74	20	7	33	21080	200	1.0	2.86
1370.00	18157	94	44	11	5	33	18311	154	0.8	2.20
1410.00	17379	160	25	6	3	42	17573	194	1.1	2.00
1450.00	33106	322	40	10	8	252	33486	380	1.1	1.25
1490.00	46763	544	56	15	10	982	47388	625	1.3	1.50
1530.00	30753	395	34	8	5	181	31195	442	1.4	1.60
1570.00	15178	268	32	14	11	117	15503	325	2.1	1.27
1610.00	5057	81	11	4	3	32	5156	99	1.9	1.33
1650.00	9797	342	56	17	12	172	10224	427	4.2	1.42
1690.00	13	1	-	-	-	12	14	1	7.1	-
1730.00	8921	251	45	5	4	25	9226	305	3.3	1.25
1770.00	11525	1986	723	102	115	50	14451	2926	20.3	0.89
1810.00	10790	3236	1214	176	199	60	15615	4825	30.9	0.88
1850.00	9294	814	338	81	93	127	10620	1326	12.5	0.87
1890.00	20091	5005	4454	1912	1927	2709	33389	13298	39.8	0.99
1930.00	8490	2082	1241	352	382	447	12547	4057	32.3	0.92
1970.00	13590	938	371	104	125	199	15128	1538	10.2	0.83

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2010.00	5270	470	257	88	101	183	6186	916	14.8	0.87
2050.00	3811	502	165	34	26	34	4538	727	16.0	1.31
2090.00	5641	655	212	41	24	81	6573	932	14.2	1.71
2130.00	11296	924	210	50	28	139	12508	1212	9.7	1.79
2170.00	18333	1979	589	243	176	1212	21320	2987	14.0	1.38
2210.00	11559	1141	333	124	74	529	13231	1672	12.6	1.68
2250.00	10886	662	148	81	38	170	11815	929	7.9	2.13
2290.00	16108	823	179	96	44	236	17250	1142	6.6	2.18
2330.00	14040	992	309	146	81	411	15568	1528	9.8	1.80
2370.00	1842	66	24	9	6	19	1947	105	5.4	1.50
2405.00	6114	271	117	34	22	43	6558	444	6.8	1.55
2415.00	7151	656	265	59	56	127	8187	1036	12.7	1.05
2425.00	4261	325	142	32	22	32	4782	521	10.9	1.45
2435.00	2730	155	70	17	13	18	2985	255	8.5	1.31
2445.00	3923	150	52	12	10	12	4147	224	5.4	1.20
2455.00	72223	396	214	51	44	38	72928	705	1.0	1.16
2465.00	5497	242	111	25	28	21	5903	406	6.9	0.89
2475.00	82178	6495	3586	705	891	930	93855	11677	12.4	0.79
2485.00	26392	2163	785	114	143	109	29597	3205	10.8	0.80
2495.00	9121	649	381	83	122	149	10356	1235	11.9	0.68
2505.00	546	117	121	52	66	163	902	356	39.5	0.79
2515.00	4339	580	368	104	149	539	5540	1201	21.7	0.70
2525.00	3998	393	242	75	116	551	4824	826	17.1	0.65

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2535.00	21978	5216	2459	607	925	2895	31185	9207	29.5	0.66
2545.00	13533	2429	1855	556	951	3021	19324	5791	30.0	0.58
2555.00	2773	414	325	186	188	573	3886	1113	28.6	0.99
2565.00	3553	422	233	56	99	265	4363	810	18.6	0.57
2575.00	28099	4654	4094	1081	2304	5653	40232	12133	30.2	0.47
2585.00	47527	7495	4833	842	1901	3849	62598	15071	24.1	0.44
2595.00	47414	9460	9000	2048	4692	9903	72614	25200	34.7	0.44
2605.00	27992	8781	10770	3207	6731	16098	57481	29489	51.3	0.48
2615.00	45470	11501	8007	1355	2908	6598	69241	23771	34.3	0.47
2625.00	35160	9438	5388	663	1247	945	51896	16736	32.3	0.53
2635.00	21951	5047	2650	289	554	371	30491	8540	28.0	0.52
2645.00	50089	10189	4884	502	996	645	66660	16571	24.9	0.50
2655.00	24	8	8	-	3	5	43	19	44.2	-
2695.00	1200	319	241	39	85	166	1884	684	36.3	0.46
2705.00	902	219	159	27	82	323	1389	487	35.1	0.33
2715.00	8670	2857	1075	93	200	233	12895	4225	32.8	0.46
2725.00	1743	958	487	42	96	108	3326	1583	47.6	0.44
2735.00	1064	912	499	43	98	108	2616	1552	59.3	0.44
2745.00	1289	957	1231	178	376	421	4031	2742	68.0	0.47
2760.00	1741	1106	1134	159	286	219	4426	2685	60.7	0.56
2770.00	7644	3730	3934	539	1143	936	16990	9346	55.0	0.47
2780.00	4840	1880	2245	325	627	472	9917	5077	51.2	0.52
2790.00	2834	930	794	121	214	184	4893	2059	42.1	0.57

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2800.00	2720	1043	917	139	278	322	5097	2377	46.6	0.50
2810.00	1739	563	449	56	114	115	2921	1182	40.5	0.49
2820.00	16701	4944	5271	935	1899	2022	29750	13049	43.9	0.49
2830.00	33667	13548	15882	2563	5008	4094	70668	37001	52.4	0.51
2840.00	1095	421	364	53	101	103	2034	939	46.2	0.52
2850.00	2070	479	399	62	114	102	3124	1054	33.7	0.54
2860.00	5738	1486	1206	192	332	335	8954	3216	35.9	0.58
2870.00	4010	982	904	171	298	348	6365	2355	37.0	0.57
2880.00	4475	1301	1100	214	374	414	7464	2989	40.1	0.57
2890.00	8799	2172	2310	507	818	745	14606	5807	39.8	0.62
2900.00	5285	1206	1521	469	754	1093	9235	3950	42.8	0.62
2910.00	17997	2476	2214	604	968	1325	24259	6262	25.8	0.62
2920.00	22833	6002	7603	2523	3910	5984	42871	20038	46.7	0.65
2930.00	1306	389	503	149	207	279	2554	1248	48.9	0.72
2940.00	19991	2803	1037	151	169	138	24151	4160	17.2	0.89
2950.00	9546	1382	513	66	83	68	11590	2044	17.6	0.80
2960.00	13052	1831	737	120	140	132	15880	2828	17.8	0.86
2970.00	2954	1022	595	91	126	167	4788	1834	38.3	0.72
2980.00	85919	5784	1324	140	132	85	93299	7380	7.9	1.06
2990.00	1051*	72013	14934	1533	1164	595	1140*	89644	7.9	1.32
3000.00	22603	2411	635	58	58	57	25765	3162	12.3	1.00
3010.00	197676	15052	3593	304	252	185	216877	19201	8.9	1.21
3020.00	628689	43187	11200	1101	784	457	684961	56272	8.2	1.40

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 nC4
3030.00	9267	1019	311	32	25	18	10654	1387	13.0	1.28
3040.00	150912	14960	4129	395	283	216	170679	19767	11.6	1.40
3050.00	2132*	168*	37113	3602	1721	927	2342*	210*	9.0	2.09
3070.00	128096	7000	1769	176	109	87	137150	9054	6.6	1.61
3080.00	1468*	70082	17310	1917	974	588	1559*	90283	5.8	1.97
3100.00	131044	9031	3189	597	361	371	144222	13178	9.1	1.65
3110.00	5832	674	296	50	35	45	6887	1055	15.3	1.43
3120.00	71192	13420	4897	1024	545	1023	91078	19886	21.8	1.88

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1090.00	9	3	1	-	-	14	13	4	30.8	-
1130.00	126	3	1	-	-	1	130	4	3.1	-
1170.00	75	3	2	1	1	5	82	7	8.5	1.00
1210.00	187	7	5	2	3	13	204	17	8.3	0.67
1250.00	71	5	5	2	3	9	86	15	17.4	0.67
1290.00	61	6	7	4	4	13	82	21	25.6	1.00
1330.00	74	7	10	5	4	19	100	26	26.0	1.25
1370.00	72	5	5	2	2	17	86	14	16.3	1.00
1410.00	20	3	3	2	2	10	30	10	33.3	1.00
1450.00	35	5	4	2	3	25	49	14	28.6	0.67
1490.00	41	6	4	2	2	44	55	14	25.5	1.00
1530.00	43	6	3	1	2	33	55	12	21.8	0.50
1570.00	54	7	3	2	3	53	69	15	21.7	0.67
1610.00	106	9	5	3	3	59	126	20	15.9	1.00
1650.00	39	7	6	4	4	89	60	21	35.0	1.00
1690.00	41	11	12	4	6	102	74	33	44.6	0.67
1730.00	125	34	51	23	48	238	281	156	55.5	0.48
1770.00	62	32	97	61	31	114	283	221	78.1	1.97
1810.00	218	283	834	390	612	360	2337	2119	90.7	0.64
1850.00	90	47	89	50	80	470	356	266	74.7	0.63
1890.00	147	211	641	737	1058	5268	2794	2647	94.7	0.70
1930.00	123	310	1032	775	1260	4298	3500	3377	96.5	0.62
1970.00	36	21	53	43	87	427	240	204	85.0	0.49

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
 (μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2010.00	80	49	89	57	118	623	393	313	79.6	0.48
2050.00	63	63	137	80	133	690	476	413	86.8	0.60
2090.00	221	85	137	65	71	938	579	358	61.8	0.92
2130.00	81	81	101	54	50	438	367	286	77.9	1.08
2170.00	46	49	81	49	53	398	278	232	83.5	0.92
2210.00	56	23	43	50	49	500	221	165	74.7	1.02
2250.00	65	37	47	55	46	303	250	185	74.0	1.20
2290.00	29	9	11	10	9	40	68	39	57.4	1.11
2330.00	43	8	11	10	8	30	80	37	46.3	1.25
2370.00	23	3	5	4	5	34	40	17	42.5	0.80
2405.00	28	9	20	12	13	23	82	54	65.9	0.92
2415.00	62	39	48	14	17	19	180	118	65.6	0.82
2425.00	26	8	23	11	13	16	81	55	67.9	0.85
2435.00	24	7	19	11	15	21	76	52	68.4	0.73
2445.00	25	8	20	10	18	20	81	56	69.1	0.56
2455.00	22	5	20	22	12	21	81	59	72.8	1.83
2465.00	34	10	17	9	20	25	90	56	62.2	0.45
2475.00	37	13	51	21	44	35	166	129	77.7	0.48
2485.00	73	93	168	509	79	51	922	849	92.1	6.44
2495.00	72	24	43	20	47	67	206	134	65.1	0.43
2505.00	9	3	20	18	47	284	97	88	90.7	0.38
2515.00	17	22	80	41	101	330	261	244	93.5	0.41
2525.00	107	30	79	47	106	399	369	262	71.0	0.44

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
 (μl gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2535.00	2338	2435	3254	1069	1836	4468	10932	8594	78.6	0.58
2545.00	1104	1461	3289	1548	3080	9910	10482	9378	89.5	0.50
2555.00	1603	2211	4612	1904	3971	10641	14301	12698	88.8	0.48
2565.00	3514	4023	6416	2104	4618	10407	20675	17161	83.0	0.46
2575.00	907	1446	3526	1283	3118	14	10280	9373	91.2	0.41
2585.00	1354	1755	2812	701	1732	2669	8354	7000	83.8	0.40
2595.00	390	798	2413	767	2118	4065	6486	6096	94.0	0.36
2605.00	3	5	15	3	10	9	36	33	91.7	0.30
2615.00	899	2204	3807	716	1626	1594	9252	8353	90.3	0.44
2625.00	1177	3311	5500	1001	2238	2148	13227	12050	91.1	0.45
2635.00	1283	3435	5434	1010	2061	1831	13223	11940	90.3	0.49
2645.00	1770	2964	3604	565	1183	945	10086	8316	82.5	0.48
2655.00	347	670	1332	267	726	773	3342	2995	89.6	0.37
2695.00	56	32	128	39	115	209	370	314	84.9	0.34
2705.00	114	31	99	30	90	175	364	250	68.7	0.33
2715.00	2	1	2	-	3	13	8	6	75.0	-
2725.00	133	121	296	45	164	273	759	626	82.5	0.27
2735.00	38	104	255	51	175	397	623	585	93.9	0.29
2745.00	57	18	72	18	70	225	235	178	75.7	0.26
2760.00	72	76	322	54	205	284	729	657	90.1	0.26
2770.00	50	91	351	68	185	152	745	695	93.3	0.37
2780.00	65	34	172	47	155	197	473	408	86.3	0.30
2790.00	102	33	75	18	58	92	286	184	64.3	0.31

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2800.00	55	25	77	18	63	109	238	183	76.9	0.29
2810.00	69	13	26	5	21	39	134	65	48.5	0.24
2820.00	79	15	42	15	55	137	206	127	61.7	0.27
2830.00	54	13	87	26	100	126	280	226	80.7	0.26
2840.00	190	23	46	16	49	128	324	134	41.4	0.33
2850.00	103	22	54	16	50	93	245	142	58.0	0.32
2860.00	101	33	104	33	33	107	304	203	66.8	1.00
2870.00	89	23	80	32	92	196	316	227	71.8	0.35
2880.00	113	33	114	44	128	271	432	319	73.8	0.34
2890.00	99	48	261	120	288	455	816	717	87.9	0.42
2900.00	50	11	74	38	110	301	283	233	82.3	0.35
2910.00	1928	405	232	58	154	324	2777	849	30.6	0.38
2920.00	53	52	395	281	600	1689	1381	1328	96.2	0.47
2930.00	87	21	102	51	124	290	385	298	77.4	0.41
2940.00	2881	2764	2661	466	758	638	9530	6649	69.8	0.61
2950.00	963	1160	1165	201	384	360	3873	2910	75.1	0.52
2960.00	782	784	761	145	304	422	2776	1994	71.8	0.48
2970.00	117	245	705	180	417	489	1664	1547	93.0	0.43
2980.00	24127	7462	2460	281	284	105	34614	10487	30.3	0.99
2990.00	39478	6933	2203	248	204	64	49066	9588	19.5	1.22
3000.00	1209	1090	726	91	124	63	3240	2031	62.7	0.73
3010.00	8301	3250	1537	166	174	72	13428	5127	38.2	0.95
3020.00	14144	5315	2359	281	213	87	22312	8168	36.6	1.32

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(μl gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 nC4
3030.00	1778	982	595	71	90	53	3516	1738	49.4	0.79
3040.00	2540	1019	586	71	90	59	4306	1766	41.0	0.79
3050.00	32178	9931	3158	344	171	80	45782	13604	29.7	2.01
3070.00	3194	916	426	45	32	16	4613	1419	30.8	1.41
3080.00	24451	6285	2426	331	173	84	33666	9215	27.4	1.91
3100.00	34494	4169	1582	194	162	99	40601	6107	15.0	1.20
3110.00	4013	789	453	66	71	63	5392	1379	25.6	0.93
3120.00	6346	4467	3137	612	454	523	15016	8670	57.7	1.35

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μl gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1090.00	916	10	4	1	1	19	932	16	1.7	1.00
1130.00	5531	16	11	6	1	87	5565	34	0.6	6.00
1170.00	72629	182	125	28	13	39	72977	348	0.5	2.15
1210.00	41691	151	83	15	8	71	41948	257	0.6	1.88
1250.00	58358	188	138	32	15	53	58731	373	0.6	2.13
1290.00	47453	174	169	44	20	64	47860	407	0.9	2.20
1330.00	20954	106	84	25	11	52	21180	226	1.1	2.27
1370.00	18229	99	49	13	7	50	18397	168	0.9	1.86
1410.00	17399	163	28	8	5	52	17603	204	1.2	1.60
1450.00	33141	327	44	12	11	277	33535	394	1.2	1.09
1490.00	46804	550	60	17	12	1026	47443	639	1.4	1.42
1530.00	30796	401	37	9	7	214	31250	454	1.5	1.29
1570.00	15232	275	35	16	14	170	15572	340	2.2	1.14
1610.00	5163	90	16	7	6	91	5282	119	2.3	1.17
1650.00	9836	349	62	21	16	261	10284	448	4.4	1.31
1690.00	54	12	12	4	6	114	88	34	38.6	0.67
1730.00	9046	285	96	28	52	263	9507	461	4.9	0.54
1770.00	11587	2018	820	163	146	164	14734	3147	21.4	1.12
1810.00	11008	3519	2048	566	811	420	17952	6944	38.7	0.70
1850.00	9384	861	427	131	173	597	10976	1592	14.5	0.76
1890.00	20238	5216	5095	2649	2985	7977	36183	15945	44.1	0.89
1930.00	8613	2392	2273	1127	1642	4745	16047	7434	46.3	0.69

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1970.00	13626	959	424	147	212	626	15368	1742	11.3	0.69
2010.00	5350	519	346	145	219	806	6579	1229	18.7	0.66
2050.00	3874	565	302	114	159	724	5014	1140	22.7	0.72
2090.00	5862	740	349	106	95	1019	7152	1290	18.0	1.12
2130.00	11377	1005	311	104	78	577	12875	1498	11.6	1.33
2170.00	18379	2028	670	292	229	1610	21598	3219	14.9	1.28
2210.00	11615	1164	376	174	123	1029	13452	1837	13.7	1.41
2250.00	10951	699	195	136	84	473	12065	1114	9.2	1.62
2290.00	16137	832	190	106	53	276	17318	1181	6.8	2.00
2330.00	14083	1000	320	156	89	441	15648	1565	10.0	1.75
2370.00	1865	69	29	13	11	53	1987	122	6.1	1.18
2405.00	6142	280	137	46	35	66	6640	498	7.5	1.31
2415.00	7213	695	313	73	73	146	8367	1154	13.8	1.00
2425.00	4287	333	165	43	35	48	4863	576	11.8	1.23
2435.00	2754	162	89	28	28	39	3061	307	10.0	1.00
2445.00	3948	158	72	22	28	32	4228	280	6.6	0.79
2455.00	72245	401	234	73	56	59	73009	764	1.1	1.30
2465.00	5531	252	128	34	48	46	5993	462	7.7	0.71
2475.00	82215	6508	3637	726	935	965	94021	11806	12.6	0.78
2485.00	26465	2256	953	623	222	160	30519	4054	13.3	2.81
2495.00	9193	673	424	103	169	216	10562	1369	13.0	0.61
2505.00	555	120	141	70	113	447	999	444	44.4	0.62

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2515.00	4356	602	448	145	250	869	5801	1445	24.9	0.58
2525.00	4105	423	321	122	222	950	5193	1088	21.0	0.55
2535.00	24316	7651	5713	1676	2761	7363	42117	17801	42.3	0.61
2545.00	14637	3890	5144	2104	4031	12931	29806	15169	50.9	0.52
2555.00	4376	2625	4937	2090	4159	11214	18187	13811	75.9	0.50
2565.00	7067	4445	6649	2160	4717	10672	25038	17971	71.8	0.46
2575.00	29006	6100	7620	2364	5422	5667	50512	21506	42.6	0.44
2585.00	48881	9250	7645	1543	3633	6518	70952	22071	31.1	0.42
2595.00	47804	10258	11413	2815	6810	13968	79100	31296	39.6	0.41
2605.00	27995	8786	10785	3210	6741	16107	57517	29522	51.3	0.48
2615.00	46369	13705	11814	2071	4534	8192	78493	32124	40.9	0.46
2625.00	36337	12749	10888	1664	3485	3093	65123	28786	44.2	0.48
2635.00	23234	8482	8084	1299	2615	2202	43714	20480	46.9	0.50
2645.00	51859	13153	8488	1067	2179	1590	76746	24887	32.4	0.49
2655.00	371	678	1340	267	729	778	3385	3014	89.0	0.37
2695.00	1256	351	369	78	200	375	2254	998	44.3	0.39
2705.00	1016	250	258	57	172	498	1753	737	42.0	0.33
2715.00	8672	2858	1077	93	203	246	12903	4231	32.8	0.46
2725.00	1876	1079	783	87	260	381	4085	2209	54.1	0.33
2735.00	1102	1016	754	94	273	505	3239	2137	66.0	0.34
2745.00	1346	975	1303	196	446	646	4266	2920	68.5	0.44
2760.00	1813	1182	1456	213	491	503	5155	3342	64.8	0.43

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μ l gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 ---- nC4
2770.00	7694	3821	4285	607	1328	1088	17735	10041	56.6	0.46
2780.00	4905	1914	2417	372	782	669	10390	5485	52.8	0.48
2790.00	2936	963	869	139	272	276	5179	2243	43.3	0.51
2800.00	2775	1068	994	157	341	431	5335	2560	48.0	0.46
2810.00	1808	576	475	61	135	154	3055	1247	40.8	0.45
2820.00	16780	4959	5313	950	1954	2159	29956	13176	44.0	0.49
2830.00	33721	13561	15969	2589	5108	4220	70948	37227	52.5	0.51
2840.00	1285	444	410	69	150	231	2358	1073	45.5	0.46
2850.00	2173	501	453	78	164	195	3369	1196	35.5	0.48
2860.00	5839	1519	1310	225	365	442	9258	3419	36.9	0.62
2870.00	4099	1005	984	203	390	544	6681	2582	38.7	0.52
2880.00	4588	1334	1214	258	502	685	7896	3308	41.9	0.51
2890.00	8898	2220	2571	627	1106	1200	15422	6524	42.3	0.57
2900.00	5335	1217	1595	507	864	1394	9518	4183	44.0	0.59
2910.00	19925	2881	2446	662	1122	1649	27036	7111	26.3	0.59
2920.00	22886	6054	7998	2804	4510	7673	44252	21366	48.3	0.62
2930.00	1393	410	605	200	331	569	2939	1546	52.6	0.60
2940.00	22872	5567	3698	617	927	776	33681	10809	32.1	0.67
2950.00	10509	2542	1678	267	467	428	15463	4954	32.0	0.57
2960.00	13834	2615	1498	265	444	554	18656	4822	25.9	0.60
2970.00	3071	1267	1300	271	543	656	6452	3381	52.4	0.50
2980.00	110046	13246	3784	421	416	190	127913	17867	14.0	1.01

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μl gas/kg rock)

Project: 6407/6-4

Well: NOCS 6407/6-4

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2990.00	1090*	78946	17137	1781	1368	659	1189*	99232	8.3	1.30
3000.00	23812	3501	1361	149	182	120	29005	5193	17.9	0.82
3010.00	205977	18302	5130	470	426	257	230305	24328	10.6	1.10
3020.00	642833	48502	13559	1382	997	544	707273	64440	9.1	1.39
3030.00	11045	2001	906	103	115	71	14170	3125	22.1	0.90
3040.00	153452	15979	4715	466	373	275	174985	21533	12.3	1.25
3050.00	2164*	178*40271		3946	1892	1007	2388*	224*	9.4	2.09
3070.00	131290	7916	2195	221	141	103	141763	10473	7.4	1.57
3080.00	1493*	76367	19736	2248	1147	672	1592*	99498	6.3	1.96
3100.00	165538	13200	4771	791	523	470	184823	19285	10.4	1.51
3110.00	9845	1463	749	116	106	108	12279	2434	19.8	1.09
3120.00	77538	17887	8034	1636	999	1546	106094	28556	26.9	1.64

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1090.00						0079
			100	Sh/Clst: lt gy, calc		0079-1L
1117.00	swc					0035
	0.47		100	Sh/Clst: m gy		0035-1L
1130.00						0080
			100	S/Sst : w to lt gy to m gy, crs, l		0080-1L
				tr Ca : lt or, fos		0080-2L
				tr Cont : dd, prp		0080-3L
1170.00						0081
			100	Sh/Clst: lt brn gy to drk y brn		0081-1L
				tr S/Sst : w to lt gy, crs, l		0081-2L
				tr Sh/Clst: gn blk to dsk bl gn, glauc		0081-3L
1210.00						0082
			100	Sh/Clst: lt brn gy to drk y brn		0082-1L
				tr S/Sst : w to lt gy, crs, l		0082-2L
				tr Sh/Clst: gn blk to dsk bl gn, glauc		0082-3L
1250.00						0083
			100	Sh/Clst: lt gy		0083-1L
				tr Sh/Clst: gn blk to dsk bl gn, glauc		0083-2L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1290.00						0084
				100 Sh/Clst: lt gy to lt brn gy		0084-1L
1291.00	swc					0034
		1.73		100 Sltst : brn gy to gy brn		0034-1L
1330.00						0085
				100 Sh/Clst: lt gy to lt brn gy		0085-1L
1341.00	swc					0033
		1.18		100 Sltst : brn gy to gy brn		0033-1L
1370.00						0086
				100 Sh/Clst: lt gy to lt brn gy, slt		0086-1L
1378.00	swc					0032
		1.35		100 Sh/Clst: brn gy to gy brn		0032-1L
1410.00						0087
				100 Sh/Clst: lt brn gy to lt ol gy, slt, mic		0087-1L
				tr S/Sst : w to lt gy, crs, l		0087-2L
				tr Ca : lt or, fos		0087-3L
				tr Cont : prp		0087-4L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1425.00	swc					0031
	1.64	100		Sh/Clst: brn gy to dsk brn		0031-1L
1437.00	swc					0030
	0.36	100		Sltst : gn gy to dsk y gn		0030-1L
1448.00	swc					0020
	0.89	100		Sh/Clst: gn gy to dsk brn, slt		0020-1L
1450.00						0088
			100	Sh/Clst: gn gy to brn gy to lt gy, slt, mic		0088-1L
				tr S/Sst : w to lt gy, crs, l		0088-2L
				tr Ca : lt or, fos		0088-3L
1452.00	swc					0021
	0.72	100		Sh/Clst: brn gy to gy brn		0021-1L
1490.00						0089
			100	Sh/Clst: gn gy to brn gy to lt gy, slt, mic		0089-1L
1513.00	swc					0022
	0.72	100		Sh/Clst: brn gy to gy brn		0022-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1528.00	swc					0023
	0.75	100		Sh/Clst: brn gy to gy brn		0023-1L
1530.00						0090
		100		Sh/Clst: brn gy to lt gy, mic		0090-1L
1570.00						0091
		100		Sh/Clst: brn gy to lt gy to gn gy, mic		0091-1L
				tr S/Sst : m gy to gn blk, crs, l		0091-2L
				tr Cont : prp		0091-3L
1584.00	swc					0024
		100		Sh/Clst: brn gy to gy brn to gn gy, slt		0024-1L
1610.00						0092
		100		Sh/Clst: brn gy to m gy to gn gy, mic, pyr		0092-1L
				tr S/Sst : w to m gy to gn blk, crs, l		0092-2L
				tr Cont : prp		0092-3L
1611.00	swc					0025
	0.35	100		Sh/Clst: m gy to gn gy		0025-1L
1650.00						0093
		95		Sh/Clst: lt gy to m gy to lt gn gy		0093-1L
		5		Ca : or gy		0093-2L
				tr S/Sst : drk gy, crs, l		0093-3L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1690.00						0094	
		100	Sh/Clst: lt gy to gn gy to brn gy tr Ca : or gy				0094-1L 0094-2L
1693.00	swc					0026	
	0.48	100	Sh/Clst: m gy to gn gy				0026-1L
1715.00	swc					0027	
	0.35	100	Sh/Clst: m gy to gn gy				0027-1L
1730.00						0095	
		100	Sh/Clst: m gy to gn gy tr Ca : or gy				0095-1L 0095-2L
1757.00	swc					0028	
	0.29	100	Sh/Clst: brn gy to gn gy				0028-1L
1770.00						0096	
		100	Sh/Clst: gn gy to lt gn gy				0096-1L
1778.50	swc					0029	
	0.25	100	Sh/Clst: gn gy to brn gy				0029-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1786.00	swc					0018	
	0.28	100	Sh/Clst: m gy to gn gy, slt				0018-1L
1810.00						0097	
		100	Sh/Clst: gn gy to lt ol gy to m gy				0097-1L
1850.00						0098	
		75	Sh/Clst: lt pu to gy pi to lt brn gy to pl brn to m brn, carb				0098-1L
		25	Sh/Clst: lt gy to gn gy to lt gn gy				0098-2L
1866.00	swc					0019	
	0.58	100	Sh/Clst: m gy to gn gy to brn gy, slt				0019-1L
1890.00						0099	
		75	Sh/Clst: lt gy to gn gy to lt gn gy				0099-1L
		25	Sh/Clst: lt pu to gy pi to lt brn gy to pl brn to m brn, carb				0099-2L
1901.00	swc					0017	
	0.38	100	Sh/Clst: m gy, slt				0017-1L
1916.00	swc					0016	
	0.65	100	Sh/Clst: m gy, slt				0016-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1929.00	swc					0015
		1.86	100	Sh/Clst: m gy, slt		0015-1L
1930.00						0100
				95 Sh/Clst: m gy to drk gy, slt		0100-1L
				5 Sh/Clst: lt brn to m brn, calc		0100-2L
1942.00	swc					0014
		1.06	100	Sltst : m gy		0014-1L
1954.00	swc					0013
		0.17	100	Sh/Clst: lt gy to m gy		0013-1L
1961.00	swc					0012
		0.08	100	Sh/Clst: m gy, slt		0012-1L
1970.00						0101
				100 Sh/Clst: m gy to drk gy, slt		0101-1L
				tr Sh/Clst: lt brn to m brn, calc		0101-2L
1996.00	swc					0011
		0.52	100	Sh/Clst: m gy, slt		0011-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2010.00						0102
			100	Sh/Clst: m gy, slt tr Coal : blk		0102-1L 0102-2L
2047.00	swc					0010
		0.08	100	Sh/Clst: gy red		0010-1L
2050.00						0103
			80	Sh/Clst: m gy to drk gy		0103-1L
			20	Sh/Clst: m brn to pl brn		0103-2L
2056.00	swc					0009
		0.58	100	Sh/Clst: m gy to drk gy		0009-1L
2061.00	swc					0008
		0.90	100	Sh/Clst: m gy to drk gy		0008-1L
2090.00						0104
			95	Sh/Clst: m gy to drk gy		0104-1L
			5	Sh/Clst: m brn to pl brn		0104-2L
				tr Sltst : lt gy, calc		0104-3L
				tr Cont : prp		0104-4L
2130.00						0076
		0.82	95	Sh/Clst: m gy, slt		0076-1L
			5	Cont : prp, dd		0076-3L
				tr S/Sst : w to lt gy		0076-2L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2170.00						0106
			100	Sh/Clst: lt gy to m gy		0106-1L
				tr Sltst : lt gy, calc		0106-2L
				tr Cont : prp		0106-3L
2210.00						0107
			100	Sh/Clst: lt gy to m gy		0107-1L
				tr Cont : prp, dd		0107-2L
2221.00	swc					0007
	0.80		100	Sh/Clst: m gy to brn gy		0007-1L
2236.00	swc					0006
	0.86		100	Sh/Clst: m gy to brn gy		0006-1L
2250.00						0108
			50	Sh/Clst: lt gy to m gy		0108-1L
			50	Sltst : lt gy, calc		0108-2L
				tr S/Sst : w to lt gy, f, l		0108-3L
				tr Cont : prp		0108-4L
2252.00	swc					0005
	0.99		100	Sh/Clst: m gy to brn gy		0005-1L
2290.00						0109
			95	Sh/Clst: m gy to lt brn gy to brn gy to gy		0109-1L
				brn		
			5	Sltst : lt gy, calc		0109-2L
				tr Ca : lt or		0109-3L
				tr Cont : prp		0109-4L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2329.50	swc					0003
	1.09	100		Sh/Clst: m gy to drk gy to brn gy		0003-1L
2330.00						0110
		100		Sh/Clst: m gy to brn gy		0110-1L
				tr Sltst : lt gy, calc		0110-2L
				tr Sh/Clst: m brn		0110-3L
				tr Cont : prp		0110-4L
2331.00	swc					0002
	0.91	100		Sh/Clst: m gy to drk gy to brn gy		0002-1L
2341.10	swc					0004
	0.88	100		Sh/Clst: m gy to drk gy to brn gy		0004-1L
2370.00						0111
		100		Sh/Clst: lt gy to m gy to lt brn gy		0111-1L
				tr Ca : lt or to w		0111-2L
				tr Sh/Clst: m brn		0111-3L
				tr S/Sst : w to lt gy, crs, l		0111-4L
				tr Cont : prp		0111-5L
2400.00						0077
	0.86	100		Sh/Clst: m gy to drk gy		0077-1L
				tr S/Sst : w to lt gy		0077-2L
				tr Cont : prp, dd		0077-3L
				tr Sh/Clst: lt gy		0077-4L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2405.00						0112
				100 Sh/Clst: lt gy to m gy to lt brn gy		0112-1L
				tr Sh/Clst: m brn		0112-2L
				tr Cont : prp		0112-3L
2415.00						0113
				100 Sh/Clst: m gy to lt gy		0113-1L
				tr Cont : prp		0113-2L
2425.00						0114
				100 Sh/Clst: m gy to lt gy		0114-1L
				tr Sh/Clst: m brn, calc		0114-2L
				tr Cont : prp		0114-3L
2435.00						0115
				100 Sh/Clst: m gy to lt gy		0115-1L
				tr Sh/Clst: m brn, calc		0115-2L
				tr Cont : prp		0115-3L
2445.00						0116
				100 Sh/Clst: m gy to lt gy		0116-1L
				tr Cont : prp		0116-2L
2455.00						0117
				100 Sh/Clst: m gy to lt gy, calc, pyr		0117-1L
				tr Cont : prp		0117-2L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2465.00						0118
			95	Sh/Clst: m gy to lt gy, wx, pyr		0118-1L
			5	Cont : prp		0118-2L
2473.00	swc					0001
	0.88	100		Sh/Clst: m gy to drk gy		0001-1L
2475.00						0119
			100	Sh/Clst: lt gy to m gy to drk gy		0119-1L
			tr	Cont : prp		0119-2L
2485.00						0120
			100	Sh/Clst: lt gy to m gy to drk gy, pyr		0120-1L
			tr	Sh/Clst: m brn		0120-2L
			tr	Cont : prp		0120-3L
2495.00						0121
			60	Sh/Clst: m gy, pyr		0121-1L
			25	Ca : w to lt or		0121-2L
			15	Sh/Clst: m brn to pl brn		0121-3L
2505.00						0122
			60	Sh/Clst: m gy, pyr		0122-1L
			30	Ca : w to lt or		0122-2L
			5	Sh/Clst: m brn to pl brn		0122-3L
			5	Cont : prp, fib		0122-4L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2515.00						0123
			60	Sh/Clst: gy red, calc		0123-1L
			30	Sh/Clst: m gy to drk gy, calc		0123-2L
			5	Ca : lt or		0123-3L
			5	Cont : prp		0123-4L
2522.00	swc					0074
		0.24	100	Sh/Clst: gy brn, calc		0074-1L
2525.00						0124
			85	Sh/Clst: gy red, calc		0124-1L
			5	Sh/Clst: m gy to drk gy, calc		0124-2L
			5	Ca : lt or to w		0124-3L
			5	Cont : prp		0124-4L
2535.00	swc					0073
		0.11	100	Ca : lt gy		0073-1L
2535.00						0125
			95	Sh/Clst: drk gy to brn blk, pyr		0125-1L
			5	Cont : prp		0125-2L
			tr	Ca : w to lt or		0125-3L
			tr	Sh/Clst: gy red to m brn, calc		0125-4L
2536.50	swc					0072
		6.90	100	Sh/Clst: drk gy to brn blk bulk		0072-1L 0072-0B
			tr	S/Sst : w to lt gy, crs, l		0072-2L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2545.00						0126
			95	Sh/Clst: drk gy to brn blk		0126-1L
			5	Cont : prp		0126-2L
2547.50	swc					0071
		7.25	100	Sh/Clst: drk gy to brn blk		0071-1L
2555.00						0127
			100	Sh/Clst: drk gy to brn blk		0127-1L
			tr	Cont : prp		0127-2L
2559.00	swc					0070
		7.47	100	Sh/Clst: brn gy to dsk brn to brn blk		0070-1L
2562.50	swc					0069
		5.90	100	Sh/Clst: drk brn to brn blk		0069-1L
2565.00						0128
			100	Sh/Clst: drk gy to brn blk		0128-1L
			tr	Cont : prp		0128-2L
2572.00	swc					0068
		5.86	100	Sh/Clst: drk brn to brn blk		0068-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2575.00						0129
			100	Sh/Clst: drk gy to brn blk tr Cont : prp		0129-1L 0129-2L
2575.50	swc					0067
	6.16	100		Sh/Clst: drk brn to brn blk		0067-1L
2579.00	swc					0066
	6.02	100		Sh/Clst: drk brn to brn blk		0066-1L
2585.00						0130
			100	Sh/Clst: drk gy to brn blk tr Cont : prp		0130-1L 0130-2L
2585.50	swc					0065
	5.52	100		Sh/Clst: drk brn to brn blk		0065-1L
2592.50	swc					0064
	7.78	100		Sh/Clst: dsk brn to brn blk, carb bulk tr S/Sst : lt brn gy, crs, l		0064-1L 0064-0B 0064-2L
2595.00						0131
			100	Sh/Clst: drk gy to brn blk tr Cont : prp		0131-1L 0131-2L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2601.00	swc					0063
	5.20	100	Sh/Clst:	dsk brn to brn blk, carb bulk		0063-1L 0063-0B 0063-2L
			tr S/Sst	: lt brn gy, crs, l		
2605.00						0132
		100	Sh/Clst:	drk gy to brn blk		0132-1L 0132-2L
			tr Cont	: prp, dd		
2607.00	swc					0062
	5.22	100	Sh/Clst:	dsk brn to brn blk, carb bulk		0062-1L 0062-0B 0062-2L
			tr S/Sst	: lt brn gy, crs, l		
2615.00						0133
		100	Sh/Clst:	drk gy to brn blk		0133-1L 0133-2L
			tr Cont	: prp		
2616.50	swc					0061
	6.05	100	Sh/Clst:	dsk brn to brn blk, carb		0061-1L
2625.00						0134
		100	Sh/Clst:	drk gy to brn blk		0134-1L 0134-2L
			tr Cont	: prp		

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2630.00	swc					0060
	5.88	100		Sh/Clst: dsk brn to brn blk bulk tr S/Sst : w to lt gy, crs, l		0060-1L 0060-0B 0060-2L
2631.00	swc					0059
	6.19	100		Sh/Clst: dsk brn to brn blk		0059-1L
2635.00						0135
		75		Sh/Clst: drk gy to brn blk		0135-1L
		25		S/Sst : w, f		0135-2L
				tr Cont : prp, dd		0135-3L
2643.00	swc					0058
	6.90	100		Sh/Clst: dsk brn to brn blk		0058-1L
2645.00						0136
		95		Sh/Clst: drk gy to brn blk		0136-1L
		5		S/Sst : w, f		0136-2L
				tr Cont : prp, dd		0136-3L
2647.00	swc					0057
	5.93	100		Sh/Clst: dsk brn to brn blk		0057-1L
2650.00	swc					0056
	6.38	100		Sh/Clst: brn gy to dsk brn to brn blk		0056-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2655.00						0137
				90 S/Sst : lt gy to w, crs, l		0137-1L
				10 Sh/Clst: drk gy to brn blk		0137-2L
				tr Cont : Mica-ad, prp		0137-3L
2659.50	ccp					0180
		0.23	100	S/Sst : w to lt gy to lt brn gy, crs, st		0180-1L
				bulk		0180-0B
				tr Coal : blk		0180-2L
2668.50	ccp					0181
		0.09	100	S/Sst : lt brn gy to lt gy to m gy, crs, l, cngl, st		0181-1L
2672.50	ccp					0182
		0.06	100	S/Sst : lt gy to m gy, crs, l		0182-1L
2679.50	ccp					0183
		0.02	100	S/Sst : w to lt gy to lt brn, crs, hd		0183-1L
2684.50	ccp					0185
		0.02	100	S/Sst : w to lt gy, crs, l		0185-1L
2695.00						0138
				95 S/Sst : lt gy to w, crs, l		0138-1L
				5 Sh/Clst: drk gy to brn blk		0138-2L
				tr Sh/Clst: gy red to m brn, calc		0138-3L
				tr Cont : prp, dd		0138-4L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2700.00	swc			Fgst Garn M.Jurassic		0055
	0.03	100	S/Sst	: lt gy to w, crs, l, mic		0055-1L
2705.00						0139
			100	S/Sst : lt gy to w, crs, l		0139-1L
			tr	Cont : prp, dd		0139-2L
			tr	Sh/Clst: drk gy to brn blk		0139-3L
2715.00						0140
			90	S/Sst : lt gy to w, crs, l		0140-1L
			5	Cont : prp, dd		0140-2L
			5	Sh/Clst: drk gy to brn blk		0140-3L
2718.00	swc					0054
	0.19	100	S/Sst	: lt gy to w, crs, l, mic		0054-1L
2725.00						0141
			100	S/Sst : lt gy to w, crs, l		0141-1L
			tr	Cont : prp, dd		0141-2L
			tr	Sh/Clst: drk gy to brn blk		0141-3L
2729.00	swc					0053
	3.23	100	Sh/Clst:	brn blk, slt		0053-1L
2735.00						0142
			95	S/Sst : lt gy to w, crs, l		0142-1L
			5	Cont : prp, dd		0142-2L
			tr	Sh/Clst: drk gy to brn blk		0142-3L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2743.00	swc			Fgst Garn M.Jurassic		0052
	0.22	100	S/Sst	: lt gy to w, crs, l, mic		0052-1L
2745.00						0143
			60	S/Sst : lt gy to w, crs, l		0143-1L
			35	Cont : prp, dd		0143-2L
			5	Sh/Clst: drk gy to brn blk		0143-3L
			tr	Sh/Clst: pl brn to gy brn		0143-4L
2760.00						0144
			40	Ca : w, cly		0144-1L
			30	Sh/Clst: lt gy, calc		0144-2L
			15	S/Sst : w to lt gy, crs, l		0144-3L
			15	Cont : prp		0144-4L
2762.00	swc					0051
			70	S/Sst : lt brn gy to lt gy, crs, l		0051-1L
			30	Sh/Clst: brn gy to dsk brn		0051-2L
	0.48			bulk		0051-0B
2770.00						0145
			75	Sh/Clst: lt gy to m gy to drk gy, calc		0145-1L
			15	Cont : prp		0145-2L
			5	S/Sst : w to lt gy, f, kln, crs, l		0145-3L
			5	Ca : w, cly		0145-4L
			tr	Sh/Clst: pl brn to gy brn		0145-5L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2780.00						0146
				80 Sh/Clst: m gy to lt gy		0146-1L
				20 Cont : prp, dd		0146-2L
				tr S/Sst : w to lt gy, crs, l		0146-3L
2790.00						0147
				90 S/Sst : w to lt gy, crs, l, f, kln		0147-1L
				5 Ca : w, cly		0147-2L
				5 Cont : prp		0147-3L
				tr Sh/Clst: m gy to drk gy, pyr		0147-4L
2800.00	swc					0050
				90 S/Sst : w to lt gy, crs, l		0050-1L
				10 Sh/Clst: brn gy to dsk brn		0050-2L
	0.42			bulk		0050-0B
2800.00						0148
				95 S/Sst : w to lt gy, f, kln, crs, l		0148-1L
				5 Cont : prp		0148-2L
				tr Sh/Clst: m gy to drk gy, pyr		0148-3L
2805.00	swc					0049
				90 S/Sst : lt gy to m gy, crs, l		0049-1L
				10 Sh/Clst: brn gy to dsk brn		0049-2L
	0.23			bulk		0049-0B
2810.00						0149
				100 S/Sst : w to lt gy, f, kln		0149-1L
				tr Cont : prp		0149-2L
				tr Sh/Clst: m gy to drk gy, pyr		0149-3L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2820.00						0150
				40 S/Sst : w to lt gy, f, kln		0150-1L
				40 Sh/Clst: m gy to lt gy, mic		0150-2L
				10 Ca : lt or to w		0150-3L
				10 Cont : prp		0150-4L
2830.00						0151
				90 Sh/Clst: m gy to lt gy, mic		0151-1L
				5 S/Sst : w to lt gy, f, kln		0151-2L
				5 Cont : prp		0151-3L
2840.00						0152
				100 S/Sst : w to lt gy, crs, l, f, kln		0152-1L
				tr Cont : prp		0152-2L
2850.00	swc					0048
				90 S/Sst : lt gy to m gy, crs, l		0048-1L
				10 Sh/Clst: brn gy to dsk brn		0048-2L
	0.61			bulk		0048-0B
2850.00						0153
				95 S/Sst : w to lt gy to m gy, crs, l, f, kln		0153-1L
				5 Cont : prp		0153-2L
				tr Sh/Clst: m gy to drk gy		0153-3L
2856.50	swc					0047
				90 Sh/Clst: brn gy to m gy		0047-1L
				10 S/Sst : w to lt gy, crs, l		0047-2L
	0.76			bulk		0047-0B

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2860.00						0154
				85 S/Sst : w to lt gy to m gy, crs, l, f, kln		0154-1L
				10 Sh/Clst: m gy to brn gy		0154-2L
				5 Cont : prp		0154-3L
2870.00						0155
				85 S/Sst : w to lt gy to m gy, crs, l, f, kln		0155-1L
				10 Sh/Clst: m gy to brn gy, mic		0155-2L
				5 Cont : prp, dd		0155-3L
2880.00						0156
				80 S/Sst : w to lt gy, crs, l, f, kln		0156-1L
				15 Sh/Clst: brn gy to m gy, mic		0156-2L
				5 Cont : prp, dd		0156-3L
2890.00						0157
				70 Sh/Clst: brn gy to m gy, mic		0157-1L
				25 S/Sst : w to lt gy, f, kln, crs, l		0157-2L
				5 Cont : prp, dd		0157-3L
2900.00						0158
				40 Sh/Clst: brn gy to m gy, mic		0158-1L
				40 Sltst : w		0158-2L
				15 S/Sst : lt gy to w, crs, l		0158-3L
				5 Cont : prp		0158-4L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2905.00	swc					0046
	0.77	100	Sh/Clst:	brn gy		0046-1L
			bulk			0046-0B
			tr S/Sst	: lt gy, crs, l		0046-2L
2910.00						0159
		85	Sh/Clst:	lt gy to m gy		0159-1L
		10	Sltst	: w		0159-2L
		5	Cont	: prp		0159-3L
			tr S/Sst	: w to lt gy, crs, l		0159-4L
2915.00	swc					0045
	1.30	100	Sh/Clst:	brn gy to drk y brn		0045-1L
2920.00						0160
		95	Sh/Clst:	m gy to brn gy, wx		0160-1L
		5	Cont	: prp		0160-2L
			tr S/Sst	: w to lt gy, crs, l		0160-3L
2930.00						0161
		85	S/Sst	: w to lt gy, crs, l, f, kln		0161-1L
		10	Sh/Clst:	brn gy to dsk y brn, wx		0161-2L
		5	Cont	: prp		0161-3L
2933.00	swc					0044
	2.95	100	Sh/Clst:	brn gy to brn blk		0044-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2940.00						0162
				90 S/Sst : w to lt gy, crs, l, f, kln		0162-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0162-2L
				5 Cont : prp, dd		0162-3L
2942.00	swc					0043
				80 Sh/Clst: brn gy, slt		0043-1L
		0.89		20 S/Sst : w to lt gy, crs, l		0043-2L
				bulk		0043-0B
2950.00						0163
				90 S/Sst : w to lt gy, crs, l, f, kln		0163-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0163-2L
				5 Cont : prp, dd		0163-3L
2960.00						0164
				90 S/Sst : w to lt gy, crs, l, f, kln		0164-1L
				5 Sh/Clst: brn gy to dsk y brn, wx		0164-2L
				5 Cont : prp, dd		0164-3L
2970.00						0165
				50 S/Sst : w to lt gy, crs, l, f, kln		0165-1L
				40 Sh/Clst: m gy to brn gy to drk y brn to brn, wx		0165-2L
				10 Cont : prp		0165-3L
2972.00	swc					0075
		0.29	100	S/Sst : w to lt gy, f, mic		0075-1L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2980.00						0166
				50 S/Sst : w to lt gy, crs, l, f, kln		0166-1L
				40 Sh/Clst: drk gy to dsk brn to brn blk, wx		0166-2L
				10 Cont : prp		0166-3L
				tr Coal : blk, wx		0166-4L
2982.00	swc					0042
				85 Sltst : brn gy to m gy, s		0042-1L
				10 S/Sst : lt gy to lt brn gy, crs, l		0042-2L
				5 Coal : blk		0042-3L
	0.42			bulk		0042-0B
2990.00						0167
				80 Sh/Clst: drk gy to dsk brn to brn blk, wx		0167-1L
				10 S/Sst : w to lt gy, f, kln, crs, l		0167-2L
				5 Sltst : m gy to brn gy		0167-3L
				5 Cont : prp		0167-4L
				tr Coal : blk, wx		0167-5L
2993.00	swc					0041
				90 Sltst : m gy to brn gy, s		0041-1L
				10 S/Sst : lt gy to lt brn gy, crs, l		0041-2L
	0.26			bulk		0041-0B
2997.00	swc					0040
				90 Sh/Clst: drk gy to lt brn gy		0040-1L
				10 Coal : blk		0040-2L
	1.69			bulk		0040-0B
				tr S/Sst : w, calc, crs, l		0040-3L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3000.00						0168
				75 Sh/Clst: lt gy to m gy to lt brn gy, slt		0168-1L
				15 S/Sst : w to lt gy, crs, l, f, kln		0168-2L
				10 Sh/Clst: drk gy to dsk brn to brn blk		0168-3L
				tr Coal : blk, wx		0168-4L
3010.00						0169
				95 S/Sst : w to lt gy, crs, l		0169-1L
				5 Coal : blk, wx		0169-2L
				tr Cont : prp		0169-3L
3020.00						0170
				80 S/Sst : w to lt gy, crs, l		0170-1L
				15 Sh/Clst: drk gy to dsk brn to brn blk, wx		0170-2L
				5 Cont : prp		0170-3L
				tr Coal : blk, wx		0170-4L
3030.00						0171
				90 S/Sst : w to lt gy, crs, l		0171-1L
				5 Sh/Clst: drk gy to dsk brn to brn blk, wx		0171-2L
				5 Cont : prp, dd		0171-3L
				tr Ca : lt or to lt gy, cly		0171-4L
3038.00	swc					0039
		0.12	100	S/Sst : w, calc, crs, l		0039-1L
3040.00						0172
				85 S/Sst : w to lt gy, crs, l		0172-1L
				10 Cont : prp, dd		0172-2L
				5 Sh/Clst: drk gy to dsk brn to brn blk, wx		0172-3L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3047.00	swc					0038
	4.09	100	Sh/Clst:	drk gy to brn gy to brn blk, slt bulk		0038-1L 0038-0B 0038-2L
			tr S/Sst	: w to lt gy, crs, l		
3050.00						0173
		90	Coal	: blk to brn blk, cly, wx		0173-1L
		5	Sh/Clst:	m gy, slt		0173-2L
		5	S/Sst	: w to lt gy, crs, l		0173-3L
		tr	Cont	: prp, dd		0173-4L
3056.50	swc					0037
		90	Coal	: blk		0037-1L
		10	Sh/Clst:	brn blk		0037-2L
	41.30		bulk			0037-0B
3060.00						0174
		95	Coal	: blk to brn blk, cly, wx		0174-1L
		5	S/Sst	: lt gy to w, f, kln		0174-2L
		tr	Cont	: prp		0174-3L
3070.00						0175
		40	Sh/Clst:	m gy to lt brn gy, mic		0175-1L
		25	S/Sst	: w to lt gy, f, kln, crs, l		0175-2L
		20	Coal	: blk to brn blk, wx, cly		0175-3L
		15	Ca	: lt or to w, cly		0175-4L
		tr	Cont	: prp		0175-5L

Table 2 : Lithology description for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3080.00						0176
			75	Sh/Clst: m gy to drk gy to dsk brn to brn blk, wx		0176-1L
			15	S/Sst : w to lt gy, crs, l, f, kln		0176-2L
			5	Coal : blk, wx		0176-3L
			5	Cont : prp		0176-4L
3083.50	ccp					0184
		0.14	100	S/Sst : w to pl y brn, f, hd, mic		0184-1L
3087.00	ccp					0186
		0.04	100	S/Sst : w to lt gy, crs, f, hd		0186-1L
3100.00						0177
			50	Cont : prp		0177-1L
			35	S/Sst : w to lt gy, crs, l		0177-2L
			15	Sh/Clst: m gy to drk gy to dsk brn		0177-3L
3105.00	swc					0036
			60	Sh/Clst: drk gy to brn gy		0036-1L
			40	Coal : blk		0036-2L
		4.93		bulk		0036-0B
3110.00						0178
			95	S/Sst : w to lt gy, crs, l		0178-1L
			5	Cont : prp		0178-2L
			tr	Sh/Clst: m gy to dsk brn to brn blk, wx		0178-3L

Table 3 : Rock-Eval table for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1117.00	swc	Sh/Clst: m gy	0.05	0.44	0.70	0.63	0.47	94	149	0.5	0.10	427	0035-1L
1291.00	swc	Sltst : brn gy to gy brn	0.39	3.66	0.84	4.36	1.73	212	49	4.1	0.10	422	0034-1L
1341.00	swc	Sltst : brn gy to gy brn	0.17	1.66	0.79	2.10	1.18	141	67	1.8	0.09	423	0033-1L
1378.00	swc	Sh/Clst: brn gy to gy brn	0.15	1.71	2.90	0.59	1.35	127	215	1.9	0.08	428	0032-1L
1425.00	swc	Sh/Clst: brn gy to dsk brn	0.34	3.63	0.78	4.65	1.64	221	48	4.0	0.09	426	0031-1L
1437.00	swc	Sltst : gn gy to dsk y gn	0.33	0.76	3.41	0.22	0.36	211	947	1.1	0.30	429	0030-1L
1448.00	swc	Sh/Clst: gn gy to dsk brn	0.10	1.37	0.48	2.85	0.89	154	54	1.5	0.07	425	0020-1L
1452.00	swc	Sh/Clst: brn gy to gy brn	0.13	1.58	0.53	2.98	0.72	219	74	1.7	0.08	420	0021-1L
1513.00	swc	Sh/Clst: brn gy to gy brn	0.11	1.13	0.85	1.33	0.72	157	118	1.2	0.09	420	0022-1L
1528.00	swc	Sh/Clst: brn gy to gy brn	0.07	1.25	0.80	1.56	0.75	167	107	1.3	0.05	422	0023-1L
1611.00	swc	Sh/Clst: m gy to gn gy	0.05	0.96	0.46	2.09	0.35	274	131	1.0	0.05	420	0025-1L
1693.00	swc	Sh/Clst: m gy to gn gy	0.05	1.08	0.37	2.92	0.48	225	77	1.1	0.04	423	0026-1L
1715.00	swc	Sh/Clst: m gy to gn gy	0.03	0.92	1.50	0.61	0.35	263	429	0.9	0.03	428	0027-1L
1757.00	swc	Sh/Clst: brn gy to gn gy	0.02	0.62	0.75	0.83	0.29	214	259	0.6	0.03	424	0028-1L
1778.50	swc	Sh/Clst: gn gy to brn gy	0.05	0.37	0.71	0.52	0.25	148	284	0.4	0.12	424	0029-1L

Table 3 : Rock-Eval table for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1786.00	swc	Sh/Clst: m gy to gn gy	-	0.39	0.95	0.41	0.28	139	339	0.4	-	500	0018-1L
1866.00	swc	Sh/Clst: m gy to gn gy to brn gy	0.44	0.72	2.27	0.32	0.58	124	391	1.2	0.38	426	0019-1L
1901.00	swc	Sh/Clst: m gy	0.10	0.82	0.77	1.06	0.38	216	203	0.9	0.11	428	0017-1L
1916.00	swc	Sh/Clst: m gy	0.25	1.24	1.25	0.99	0.65	191	192	1.5	0.17	425	0016-1L
1929.00	swc	Sh/Clst: m gy	0.58	4.22	1.27	3.32	1.86	227	68	4.8	0.12	415	0015-1L
1942.00	swc	Sltst : m gy	0.25	4.03	0.75	5.37	1.06	380	71	4.3	0.06	425	0014-1L
1954.00	swc	Sh/Clst: lt gy to m gy	-	0.33	0.21	1.57	0.17	194	124	0.3	-	587	0013-1L
1961.00	swc	Sh/Clst: m gy	0.02	0.36	0.48	0.75	0.08	450	600	0.4	0.05	492	0012-1L
1996.00	swc	Sh/Clst: m gy	0.04	0.50	0.62	0.81	0.52	96	119	0.5	0.07	426	0011-1L
2047.00	swc	Sh/Clst: gy red	0.02	0.78	0.12	6.50	0.08	975	150	0.8	0.03	476	0010-1L
2056.00	swc	Sh/Clst: m gy to drk gy	0.02	0.63	0.16	3.94	0.58	109	28	0.6	0.03	504	0009-1L
2061.00	swc	Sh/Clst: m gy to drk gy	0.08	1.39	0.17	8.18	0.90	154	19	1.5	0.05	431	0008-1L
2130.00	cut	Sh/Clst: m gy	0.02	0.68	0.23	2.96	0.82	83	28	0.7	0.03	435	0076-1L
2221.00	swc	Sh/Clst: m gy to brn gy	0.12	1.60	0.37	4.32	0.80	200	46	1.7	0.07	433	0007-1L
2236.00	swc	Sh/Clst: m gy to brn gy	0.15	1.17	0.96	1.22	0.86	136	112	1.3	0.11	435	0006-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2252.00	swc	Sh/Clst: m gy to brn gy	0.20	1.29	1.32	0.98	0.99	130	133	1.5	0.13	431	0005-1L
2329.50	swc	Sh/Clst: m gy to drk gy to brn gy	0.28	1.49	1.42	1.05	1.09	137	130	1.8	0.16	430	0003-1L
2331.00	swc	Sh/Clst: m gy to drk gy to brn gy	0.04	1.00	0.35	2.86	0.91	110	38	1.0	0.04	436	0002-1L
2341.10	swc	Sh/Clst: m gy to drk gy to brn gy	0.14	2.00	0.73	2.74	0.88	227	83	2.1	0.07	547	0004-1L
2400.00	cut	Sh/Clst: m gy to drk gy	0.03	0.53	0.62	0.85	0.86	62	72	0.6	0.05	436	0077-1L
2473.00	swc	Sh/Clst: m gy to drk gy	0.04	0.30	0.86	0.35	0.88	34	98	0.3	0.12	432	0001-1L
2522.00	swc	Sh/Clst: gy brn	0.04	0.11	1.36	0.08	0.24	46	567	0.2	0.27	454	0074-1L
2535.00	swc	Ca : lt gy	0.03	0.06	0.58	0.10	0.11	55	527	0.1	0.33	401	0073-1L
2536.50	swc	bulk	2.14	21.76	0.70	31.09	6.90	315	10	23.9	0.09	426	0072-0B
2547.50	swc	Sh/Clst: drk gy to brn blk	2.79	25.43	0.16	158.94	7.25	351	2	28.2	0.10	423	0071-1L
2559.00	swc	Sh/Clst: brn gy to drk brn to brn blk	3.49	26.38	0.18	146.56	7.47	353	2	29.9	0.12	425	0070-1L
2562.50	swc	Sh/Clst: drk brn to brn blk	2.80	21.04	0.10	210.40	5.90	357	2	23.8	0.12	422	0069-1L
2572.00	swc	Sh/Clst: drk brn to brn blk	2.44	19.79	0.07	282.71	5.86	338	1	22.2	0.11	420	0068-1L
2575.50	swc	Sh/Clst: drk brn to brn blk	2.27	20.17	0.14	144.07	6.16	327	2	22.4	0.10	425	0067-1L

Table 3 : Rock-Eval table for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2579.00	swc	Sh/Clst: drk brn to brn blk	1.88	19.16	0.04	479.00	6.02	318	1	21.0	0.09	425	0066-1L
2585.50	swc	Sh/Clst: drk brn to brn blk	1.40	17.73	0.26	68.19	5.52	321	5	19.1	0.07	427	0065-1L
2592.50	swc	bulk	2.44	21.62	0.25	86.48	7.78	278	3	24.1	0.10	424	0064-0B
2601.00	swc	bulk	1.55	17.43	0.29	60.10	5.20	335	6	19.0	0.08	426	0063-0B
2607.00	swc	bulk	1.60	16.62	0.46	36.13	5.22	318	9	18.2	0.09	424	0062-0B
2616.50	swc	Sh/Clst: dsk brn to brn blk	1.89	19.97	0.38	52.55	6.05	330	6	21.9	0.09	426	0061-1L
2630.00	swc	bulk	2.09	18.90	0.19	99.47	5.88	321	3	21.0	0.10	425	0060-0B
2631.00	swc	Sh/Clst: dsk brn to brn blk	1.56	18.33	0.21	87.29	6.19	296	3	19.9	0.08	423	0059-1L
2643.00	swc	Sh/Clst: dsk brn to brn blk	2.22	21.42	0.31	69.10	6.90	310	4	23.6	0.09	426	0058-1L
2647.00	swc	Sh/Clst: dsk brn to brn blk	1.54	16.72	0.45	37.16	5.93	282	8	18.3	0.08	426	0057-1L
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	1.57	18.57	0.56	33.16	6.38	291	9	20.1	0.08	426	0056-1L
2659.50	ccp	bulk	0.13	1.14	0.31	3.68	0.23	496	135	1.3	0.10	591	0180-0B
2668.50	ccp	S/Sst : lt brn gy to lt gy to m gy	0.08	0.98	0.30	3.27	0.09	1089	333	1.1	0.08	544	0181-1L
2672.50	ccp	S/Sst : lt gy to m gy	0.02	0.41	0.24	1.71	0.06	683	400	0.4	0.05	567	0182-1L

Table 3 : Rock-Eval table for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2679.50	ccp	S/Sst : w to lt gy to lt brn	0.01	0.30	-	-	0.02	1500	-	0.3	0.03	557	0183-1L
2684.50	ccp	S/Sst : w to lt gy	-	0.13	-	-	0.02	650	-	0.1	-	573	0185-1L
2700.00	swc	S/Sst : lt gy to w	-	0.44	0.12	3.67	0.03	1467	400	0.4	-	502	0055-1L
2718.00	swc	S/Sst : lt gy to w	0.02	0.51	0.21	2.43	0.19	268	111	0.5	0.04	499	0054-1L
2729.00	swc	Sh/Clst: brn blk	0.45	6.36	0.10	63.60	3.23	197	3	6.8	0.07	430	0053-1L
2743.00	swc	S/Sst : lt gy to w	0.02	0.29	0.24	1.21	0.22	132	109	0.3	0.06	591	0052-1L
2762.00	swc	bulk	0.07	0.34	0.37	0.92	0.48	71	77	0.4	0.17	434	0051-0B
2800.00	swc	bulk	0.09	0.49	1.24	0.40	0.42	117	295	0.6	0.16	444	0050-0B
2805.00	swc	bulk	0.02	0.33	2.51	0.13	0.23	143	1091	0.4	0.06	537	0049-0B
2850.00	swc	bulk	0.09	0.67	0.30	2.23	0.61	110	49	0.8	0.12	441	0048-0B
2856.50	swc	bulk	0.09	1.06	1.03	1.03	0.76	139	136	1.1	0.08	441	0047-0B
2905.00	swc	bulk	0.10	1.87	2.09	0.89	0.77	243	271	2.0	0.05	442	0046-0B
2915.00	swc	Sh/Clst: brn gy to drk y brn	0.35	7.20	2.38	3.03	1.30	554	183	7.5	0.05	440	0045-1L
2933.00	swc	Sh/Clst: brn gy to brn blk	1.23	16.15	0.08	201.88	2.95	547	3	17.4	0.07	435	0044-1L
2942.00	swc	bulk	0.14	1.54	2.97	0.52	0.89	173	334	1.7	0.08	443	0043-0B

Table 3 : Rock-Eval table for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2972.00	swc	S/Sst : w to lt gy	0.05	0.35	0.16	2.19	0.29	121	55	0.4	0.13	490	0075-1L
2982.00	swc	bulk	0.06	0.54	0.02	27.00	0.42	129	5	0.6	0.10	449	0042-0B
2993.00	swc	bulk	0.02	0.29	1.18	0.25	0.26	112	454	0.3	0.06	467	0041-0B
2997.00	swc	bulk	0.12	2.99	-	-	1.69	177	-	3.1	0.04	440	0040-0B
3038.00	swc	S/Sst : w	0.05	0.07	0.63	0.11	0.12	58	525	0.1	0.42	423	0039-1L
3047.00	swc	bulk	0.60	10.96	0.18	60.89	4.09	268	4	11.6	0.05	434	0038-0B
3056.50	swc	bulk	5.28	121.88	1.69	72.12	41.30	295	4	127.2	0.04	439	0037-0B
3083.50	ccp	S/Sst : w to pl y brn	-	0.25	0.39	0.64	0.14	179	279	0.3	-	518	0184-1L
3087.00	ccp	S/Sst : w to lt gy	0.01	0.27	0.31	0.87	0.04	675	775	0.3	0.04	508	0186-1L
3105.00	swc	bulk	0.72	12.93	0.29	44.59	4.93	262	6	13.7	0.05	437	0036-0B
3120.00	cut	Coal : blk	8.36	146.18	2.18	67.06	38.60	379	6	154.5	0.05	438	0078-4L

Table 4 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1291.00	swc	Sltst : brn gy to gy brn	3.08	16.10	51.52	29.30	3.66	0034-1L
1425.00	swc	Sh/Clst: brn gy to dsk brn	3.83	17.65	55.34	23.18	3.63	0031-1L
1437.00	swc	Sltst : gn gy to dsk y gn	3.63	17.12	56.55	22.70	0.76	0030-1L
1866.00	swc	Sh/Clst: m gy to gn gy to brn gy	3.08	20.60	57.38	18.94	0.72	0019-1L
1929.00	swc	Sh/Clst: m gy	2.19	12.41	42.08	43.32	4.22	0015-1L
1942.00	swc	Sltst : m gy	1.73	10.87	37.92	49.48	4.03	0014-1L
2252.00	swc	Sh/Clst: m gy to brn gy	6.41	19.26	49.58	24.75	1.29	0005-1L
2329.50	swc	Sh/Clst: m gy to drk gy to brn gy	5.54	19.33	52.48	21.65	1.49	0003-1L
2536.50	swc	bulk	2.00	8.41	27.14	62.45	21.76	0072-0B
2559.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	2.06	9.07	27.87	61.00	26.38	0070-1L
2572.00	swc	Sh/Clst: drk brn to brn blk	2.61	9.00	27.26	61.13	19.79	0068-1L
2579.00	swc	Sh/Clst: drk brn to brn blk	2.53	8.74	24.57	64.16	19.16	0066-1L
2585.50	swc	Sh/Clst: drk brn to brn blk	3.28	10.24	23.70	62.78	17.73	0065-1L
2616.50	swc	Sh/Clst: dsk brn to brn blk	2.91	9.68	24.38	63.03	19.97	0061-1L

Table 4 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2631.00	swc	Sh/Clst: dsk brn to brn blk	3.35	10.04	23.82	62.79	18.33	0059-1L
2643.00	swc	Sh/Clst: dsk brn to brn blk	3.23	8.87	23.39	64.51	21.42	0058-1L
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	3.04	9.44	23.37	64.15	18.57	0056-1L
2659.50	ccp	bulk	9.10	32.33	44.01	14.56	1.14	0180-0B
2668.50	ccp	S/Sst : lt brn gy to lt gy to m gy	3.25	28.20	61.87	6.68	0.98	0181-1L
2672.50	ccp	S/Sst : lt gy to m gy	2.45	29.00	61.54	7.02	0.41	0182-1L
2679.50	ccp	S/Sst : w to lt gy to lt brn	4.98	37.20	47.34	10.48	0.30	0183-1L
2684.50	ccp	S/Sst : w to lt gy	2.76	32.59	55.36	9.29	0.13	0185-1L
2729.00	swc	Sh/Clst: brn blk	2.96	10.04	24.04	62.97	6.36	0053-1L
2800.00	swc	bulk	10.58	31.32	44.65	13.46	0.49	0050-0B
2915.00	swc	bulk	2.65	11.06	28.89	57.40	-	0045-0B
2933.00	swc	bulk	1.89	8.30	25.21	64.60	-	0044-0B
3047.00	swc	bulk	6.20	6.87	21.91	65.02	10.96	0038-0B

Table 4 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
3056.50	swc	bulk	7.97	9.61	19.42	63.00	121.88	0037-0B
3083.50	ccp	S/Sst : w to pl y brn	9.12	29.19	54.52	7.18	0.25	0184-1L
3087.00	ccp	S/Sst : w to lt gy	2.16	33.62	53.80	10.41	0.27	0186-1L
3120.00	cut	Coal : blk	8.50	10.57	17.10	63.83	146.18	0078-4L

Table 5 a: Weight of EOM and Chromatographic Fraction for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
1291.00	swc	Sltst : brn gy to gy brn	8.4	3.0	-	-	-	-	-	-	1.73	0034-1L
1425.00	swc	Sh/Clst: brn gy to dsk brn	8.4	3.2	-	-	-	-	-	-	1.64	0031-1L
1437.00	swc	Sltst : gn gy to dsk y gn	10.4	3.7	-	-	-	-	-	-	0.36	0030-1L
1929.00	swc	Sh/Clst: m gy	2.4	2.0	-	-	-	-	-	-	1.86	0015-1L
2329.50	swc	Sh/Clst: m gy to drk gy to brn gy	3.7	1.6	-	-	-	-	-	-	1.09	0003-1L
2536.50	swc	bulk	7.1	33.1	6.9	7.7	8.0	10.5	14.6	18.5	6.90	0072-0B
2559.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	10.1	76.5	9.6	23.9	18.2	24.8	33.5	43.0	7.47	0070-1L
2572.00	swc	Sh/Clst: drk brn to brn blk	9.2	45.1	3.9	12.7	16.5	12.0	16.6	28.5	5.86	0068-1L
2579.00	swc	Sh/Clst: drk brn to brn blk	6.4	22.3	2.6	5.8	7.9	6.0	8.4	13.9	6.02	0066-1L
2585.50	swc	Sh/Clst: drk brn to brn blk	8.5	19.4	2.1	5.1	7.3	4.9	7.2	12.2	5.52	0065-1L
2616.50	swc	Sh/Clst: dsk brn to brn blk	7.1	22.8	3.6	5.9	7.2	6.1	9.5	13.3	6.05	0061-1L
2631.00	swc	Sh/Clst: dsk brn to brn blk	8.4	26.3	3.2	7.6	10.5	5.0	10.8	15.5	6.19	0059-1L
2643.00	swc	Sh/Clst: dsk brn to brn blk	5.6	21.5	1.5	4.6	7.3	8.1	6.1	15.4	6.90	0058-1L

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	6.0	13.1	0.4	3.2	7.9	1.6	3.6	9.5	6.38	0056-1L
2729.00	swc	Sh/Clst: brn blk	9.6	5.7	0.2	2.0	2.6	0.9	2.2	3.5	3.23	0053-1L
2915.00	swc	Sh/Clst: brn gy to drk y brn	8.2	2.9	0.4	0.2	1.3	1.0	0.6	2.3	1.30	0045-1L
2933.00	swc	Sh/Clst: brn gy to brn blk	9.0	15.4	4.4	5.6	1.7	3.7	10.0	5.4	2.95	0044-1L
3047.00	swc	bulk	5.8	7.8	0.5	0.7	5.9	0.7	1.2	6.6	4.09	0038-0B
3056.50	swc	bulk	5.7	96.9	2.4	12.6	78.5	3.4	15.0	81.9	41.30	0037-0B
3120.00	cut	Coal : blk	0.4	4.8	0.5	0.9	1.9	1.5	1.4	3.4	38.60	0078-4L

Table 5 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1291.00	swc Sltst : brn gy to gy brn	357	-	-	-	-	-	-	0034-1L
1425.00	swc Sh/Clst: brn gy to dsk brn	380	-	-	-	-	-	-	0031-1L
1437.00	swc Sltst : gn gy to dsk y gn	355	-	-	-	-	-	-	0030-1L
1929.00	swc Sh/Clst: m gy	829	-	-	-	-	-	-	0015-1L
2329.50	swc Sh/Clst: m gy to drk gy to brn gy	437	-	-	-	-	-	-	0003-1L
2536.50	swc bulk	4661	971	1084	1126	1478	2056	2605	0072-0B
2559.00	swc Sh/Clst: brn gy to dsk brn to brn blk	7574	950	2366	1801	2455	3316	4257	0070-1L
2572.00	swc Sh/Clst: drk brn to brn blk	4912	424	1383	1797	1307	1808	3104	0068-1L
2579.00	swc Sh/Clst: drk brn to brn blk	3462	403	900	1226	931	1304	2158	0066-1L
2585.50	swc Sh/Clst: drk brn to brn blk	2279	246	599	857	575	846	1433	0065-1L
2616.50	swc Sh/Clst: dsk brn to brn blk	3224	509	834	1018	862	1343	1881	0061-1L
2631.00	swc Sh/Clst: dsk brn to brn blk	3149	383	910	1257	598	1293	1856	0059-1L
2643.00	swc Sh/Clst: dsk brn to brn blk	3859	269	825	1310	1454	1095	2764	0058-1L

Table 5 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	2179	66	532	1314	266	599	1580	0056-1L
2729.00	swc	Sh/Clst: brn blk	593	20	208	270	93	229	364	0053-1L
2915.00	swc	Sh/Clst: brn gy to drk y brn	354	48	24	158	122	73	281	0045-1L
2933.00	swc	Sh/Clst: brn gy to brn blk	1713	489	622	189	411	1112	600	0044-1L
3047.00	swc	bulk	1333	85	119	1008	119	205	1128	0038-0B
3056.50	swc	bulk	17150	424	2230	13893	601	2654	14495	0037-0B
3120.00	cut	Coal : blk	11707	1219	2195	4634	3658	3414	8292	0078-4L

Table 5 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	34.16	1.04	8.35	20.60	4.17	9.39	24.78	0056-1L
2729.00	swc	Sh/Clst: brn blk	18.38	0.64	6.45	8.38	2.90	7.09	11.29	0053-1L
2915.00	swc	Sh/Clst: brn gy to drk y brn	27.27	3.76	1.88	12.22	9.40	5.64	21.63	0045-1L
2933.00	swc	Sh/Clst: brn gy to brn blk	58.07	16.59	21.12	6.41	13.95	37.71	20.36	0044-1L
3047.00	swc	bulk	32.60	2.09	2.93	24.66	2.93	5.02	27.58	0038-0B
3056.50	swc	bulk	41.53	1.03	5.40	33.64	1.46	6.43	35.10	0037-0B
3120.00	cut	Coal : blk	30.33	3.16	5.69	12.01	9.48	8.85	21.48	0078-4L

Table 5 d: Composition of material extracted from the rock (%) for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
1291.00	swc	Sltst : brn gy to gy brn	-	-	-	-	-	-	-	-	0034-1L
1425.00	swc	Sh/Clst: brn gy to dsk brn	-	-	-	-	-	-	-	-	0031-1L
1437.00	swc	Sltst : gn gy to dsk y gn	-	-	-	-	-	-	-	-	0030-1L
1929.00	swc	Sh/Clst: m gy	-	-	-	-	-	-	-	-	0015-1L
2329.50	swc	Sh/Clst: m gy to drk gy to brn gy	-	-	-	-	-	-	-	-	0003-1L
2536.50	swc	bulk	20.85	23.26	24.17	31.72	44.11	55.89	89.61	78.92	0072-0B
2559.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	12.55	31.24	23.79	32.42	43.79	56.21	40.17	77.91	0070-1L
2572.00	swc	Sh/Clst: drk brn to brn blk	8.65	28.16	36.59	26.61	36.81	63.19	30.71	58.25	0068-1L
2579.00	swc	Sh/Clst: drk brn to brn blk	11.66	26.01	35.43	26.91	37.67	62.33	44.83	60.43	0066-1L
2585.50	swc	Sh/Clst: drk brn to brn blk	10.82	26.29	37.63	25.26	37.11	62.89	41.18	59.02	0065-1L
2616.50	swc	Sh/Clst: dsk brn to brn blk	15.79	25.88	31.58	26.75	41.67	58.33	61.02	71.43	0061-1L
2631.00	swc	Sh/Clst: dsk brn to brn blk	12.17	28.90	39.92	19.01	41.06	58.94	42.11	69.68	0059-1L
2643.00	swc	Sh/Clst: dsk brn to brn blk	6.98	21.40	33.95	37.67	28.37	71.63	32.61	39.61	0058-1L

Table 5 d: Composition of material extracted from the rock (%) for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	Aro	Non-HC	
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	3.05	24.43	60.31	12.21	27.48	72.52	12.50	37.89	0056-1L
2729.00	swc	Sh/Clst: brn blk	3.51	35.09	45.61	15.79	38.60	61.40	10.00	62.86	0053-1L
2915.00	swc	Sh/Clst: brn gy to drk y brn	13.79	6.90	44.83	34.48	20.69	79.31	200.00	26.09	0045-1L
2933.00	swc	Sh/Clst: brn gy to brn blk	28.57	36.36	11.04	24.03	64.94	35.06	78.57	185.19	0044-1L
3047.00	swc	bulk	6.41	8.97	75.64	8.97	15.38	84.62	71.43	18.18	0038-0B
3056.50	swc	bulk	2.48	13.00	81.01	3.51	15.48	84.52	19.05	18.32	0037-0B
3120.00	cut	Coal : blk	10.42	18.75	39.58	31.25	29.17	70.83	55.56	41.18	0078-4L

Table 6 : Saturated Hydrocarbon Ratios for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
2536.50	swc	bulk	1.80	1.59	1.61	1.37	1.06	0072-0B
2559.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	1.22	0.92	1.31	1.41	0.83	0070-1L
2572.00	swc	Sh/Clst: drk brn to brn blk	2.76	1.33	2.49	2.21	1.01	0068-1L
2579.00	swc	Sh/Clst: drk brn to brn blk	2.02	1.40	1.89	1.74	0.99	0066-1L
2585.50	swc	Sh/Clst: drk brn to brn blk	2.57	2.15	2.03	1.39	1.47	0065-1L
2616.50	swc	Sh/Clst: dsk brn to brn blk	2.65	1.56	2.41	2.11	1.44	0061-1L
2631.00	swc	Sh/Clst: dsk brn to brn blk	2.29	1.97	1.77	1.23	1.40	0059-1L
2643.00	swc	Sh/Clst: dsk brn to brn blk	2.62	2.30	1.84	1.09	1.16	0058-1L
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	2.27	2.54	1.63	0.94	1.46	0056-1L
2729.00	swc	Sh/Clst: brn blk	0.84	3.71	0.56	0.26	1.40	0053-1L
2915.00	swc	Sh/Clst: brn gy to drk y brn	1.18	3.57	0.83	0.41	1.40	0045-1L
2933.00	swc	Sh/Clst: brn gy to brn blk	1.07	2.35	0.83	0.54	1.26	0044-1L
3047.00	swc	bulk	2.67	6.33	1.48	0.39	1.70	0038-0B

Table 6 : Saturated Hydrocarbon Ratios for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
3056.50	swc	bulk	2.03	6.28	1.12	0.30	1.29	0037-0B
3120.00	cut	Coal : blk	1.10	4.24	0.65	0.24	1.26	0078-4L

Table 7 : Aromatic Hydrocarbon Ratios for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
2536.50	swc	bulk	1.35	2.17	-	1.11	0.81	0.76	0.89	0.55	0.20	0.12	0072-0B
2559.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	1.14	1.81	-	1.80	1.23	1.01	1.14	1.16	0.42	0.26	0070-1L
2572.00	swc	Sh/Clst: drk brn to brn blk	1.04	1.57	-	1.13	0.78	0.73	0.87	1.33	0.92	0.53	0068-1L
2579.00	swc	Sh/Clst: drk brn to brn blk	1.12	1.53	-	1.00	0.63	0.66	0.78	0.63	0.54	0.38	0066-1L
2585.50	swc	Sh/Clst: drk brn to brn blk	1.14	1.66	-	0.79	0.57	0.59	0.74	0.47	0.25	0.23	0065-1L
2616.50	swc	Sh/Clst: dsk brn to brn blk	1.23	1.64	0.13	0.92	0.62	0.67	0.77	0.50	0.39	0.33	0061-1L
2631.00	swc	Sh/Clst: dsk brn to brn blk	1.33	1.64	0.10	0.97	0.62	0.67	0.77	0.55	0.52	0.38	0059-1L
2643.00	swc	Sh/Clst: dsk brn to brn blk	1.18	1.51	-	0.82	0.57	0.61	0.74	0.62	0.55	0.37	0058-1L
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	1.17	1.51	0.10	0.87	0.49	0.53	0.69	0.39	0.53	0.46	0056-1L
2729.00	swc	Sh/Clst: brn blk	1.02	1.92	0.13	1.20	0.57	0.72	0.74	0.28	3.61	2.85	0053-1L
2915.00	swc	Sh/Clst: brn gy to drk y brn	0.58	1.54	-	1.00	0.57	0.67	0.74	0.22	0.88	0.70	0045-1L
2933.00	swc	Sh/Clst: brn gy to brn blk	1.26	1.84	0.09	1.06	0.62	0.71	0.77	0.20	1.12	0.72	0044-1L
3047.00	swc	bulk	0.78	1.88	-	0.77	0.57	0.68	0.74	0.30	-	-	0038-0B
3056.50	swc	bulk	1.39	2.07	0.06	0.72	0.55	0.67	0.73	0.30	1.93	1.27	0037-0B

Table 7 : Aromatic Hydrocarbon Ratios for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3120.00	cut	Coal : blk	-	0.82	-	0.91	0.55	0.60	0.73	0.14	-	-	0078-4L

Table 8 : Thermal Maturity Data for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
1117.00	swc bulk	0.32	11	0.04	-	-	-	0035-0B
1117.00	swc Sh/Clst: m gy	-	-	-	-	3.5-4.0	427	0035-1L
1291.00	swc bulk	0.30	10	0.05	-	-	-	0034-0B
1291.00	swc Sltst : brn gy to gy brn	-	-	-	-	3.5-4.0	422	0034-1L
1341.00	swc Sltst : brn gy to gy brn	-	-	-	-	3.5	423	0033-1L
1378.00	swc bulk	0.28	9	0.03	-	-	-	0032-0B
1425.00	swc Sh/Clst: brn gy to dsk brn	-	-	-	-	4.0	426	0031-1L
1452.00	swc bulk	0.34	12	0.05	-	-	-	0021-0B
1513.00	swc Sh/Clst: brn gy to gy brn	-	-	-	-	4.0(?)	420	0022-1L
1528.00	swc bulk	0.33	16	0.06	-	-	-	0023-0B
1611.00	swc bulk	0.44	5	0.07	-	-	-	0025-0B
1611.00	swc Sh/Clst: m gy to gn gy	-	-	-	-	4.0-4.5	420	0025-1L
1693.00	swc bulk	0.41	8	0.05	-	-	-	0026-0B
1693.00	swc Sh/Clst: m gy to gn gy	-	-	-	-	5.0	423	0026-1L

Table 8 : Thermal Maturity Data for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
1715.00	swc Sh/Clst: m gy to gn gy	-	-	-	-	4.5-5.0(?)	428	0027-1L
1757.00	swc Sh/Clst: brn gy to gn gy	-	-	-	-	4.5-5.0(?)	424	0028-1L
1778.50	swc bulk	0.46	1	0.00	-	-	-	0029-0B
1786.00	swc Sh/Clst: m gy to gn gy	-	-	-	-	4.5-5.0	500	0018-1L
1866.00	swc bulk	0.41	4	0.06	-	-	-	0019-0B
1866.00	swc Sh/Clst: m gy to gn gy to brn gy	-	-	-	-	5.0	426	0019-1L
1929.00	swc bulk	0.45	9	0.05	-	-	-	0015-0B
1929.00	swc Sh/Clst: m gy	-	-	-	-	5.0-5.5	415	0015-1L
1996.00	swc bulk	0.43	1	0.00	-	-	-	0011-0B
1996.00	swc Sh/Clst: m gy	-	-	-	-	5.5-6.0(??)	426	0011-1L
2056.00	swc Sh/Clst: m gy to drk gy	-	-	-	-	6.0-6.5	504	0009-1L
2061.00	swc bulk	0.45	12	0.05	-	-	-	0008-0B
2221.00	swc bulk	0.41	8	0.04	-	-	-	0007-0B
2221.00	swc Sh/Clst: m gy to brn gy	-	-	-	-	6.0	433	0007-1L

Table 8 : Thermal Maturity Data for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
2252.00	swc Sh/Clst: m gy to brn gy	-	-	-	-	5.5-6.0	431	0005-1L
2329.50	swc bulk	0.47	2	0.05	-	-	-	0003-0B
2329.50	swc Sh/Clst: m gy to drk gy to brn gy	-	-	-	-	6.0	430	0003-1L
2341.10	swc bulk	0.50	5	0.05	-	-	-	0004-0B
2341.10	swc Sh/Clst: m gy to drk gy to brn gy	-	-	-	-	5.5-6.0	547	0004-1L
2473.00	swc bulk	NDP	-	-	-	-	-	0001-0B
2473.00	swc Sh/Clst: m gy to drk gy	-	-	-	-	6.0-6.5	432	0001-1L
2536.50	swc bulk	0.52	11	0.06	-	6.0(??)	426	0072-0B
2579.00	swc bulk	0.46	14	0.06	-	-	-	0066-0B
2585.50	swc Sh/Clst: drk brn to brn blk	-	-	-	-	5.5-6.0	427	0065-1L
2616.50	swc bulk	0.43	9	0.04	-	-	-	0061-0B
2631.00	swc Sh/Clst: dsk brn to brn blk	-	-	-	-	5.5-6.0	423	0059-1L
2650.00	swc bulk	0.47	12	0.06	-	-	-	0056-0B
2650.00	swc Sh/Clst: brn gy to dsk brn to brn blk	-	-	-	-	6.0	426	0056-1L

Table 8 : Thermal Maturity Data for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
2729.00	swc bulk	0.51	13	0.05	-	-	-	0053-0B
2729.00	swc Sh/Clst: brn blk	-	-	-	-	6.0	430	0053-1L
2762.00	swc bulk	-	-	-	-	6.0	434	0051-0B
2800.00	swc bulk	-	-	-	-	6.0	444	0050-0B
2805.00	swc bulk	0.47	6	0.05	-	-	537	0049-0B
2850.00	swc bulk	-	-	-	-	6.0	441	0048-0B
2905.00	swc bulk	0.51	11	0.07	-	6.0	442	0046-0B
2933.00	swc bulk	-	-	-	-	5.5-6.0	-	0044-0B
2982.00	swc bulk	0.63	14	0.08	-	-	449	0042-0B
2997.00	swc bulk	-	-	-	-	5.5-6.5	440	0040-0B
3056.50	swc bulk	0.70	14	0.06	-	6.0-7.0	439	0037-0B
3105.00	swc bulk	-	-	-	-	6.0-7.0	437	0036-0B
3120.00	cut bulk	0.74	10	0.04	-	-	-	0078-0B

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m r e L t	L i p o c l	S / P o c l	C u r t e l l i n e	D i s c r i b i n g f e l t L	I A B I N C I T %	F u s n	S F i u e n t	M D r e t n o	S c l e r I	V I R %	C T e l l i n t	V e l l D r t V	A i m D r t V	B r t V	Sample	
1117.00	swc	Sh/Clst: m gy	NDP	*	**	*			NDP		*			NDP	*	*				0035-1L
1291.00	swc	Sltst : brn gy to gy brn	100	**	**	*	*	*	?	TR	*			TR	*	*				0034-1L
1341.00	swc	Sltst : brn gy to gy brn	NDP	**	*	*		*		NDP	*			NDP		*				0033-1L
1425.00	swc	Sh/Clst: brn gy to dsk brn	95	**	**	*		*		TR	*			5	*	*				0031-1L
1513.00	swc	Sh/Clst: brn gy to gy brn	NDP	**	*			*		NDP	*			NDP		*				0022-1L
1611.00	swc	Sh/Clst: m gy to gn gy	NDP	**	*		**	*	?	NDP	*			NDP		*				0025-1L
1693.00	swc	Sh/Clst: m gy to gn gy	NDP	*	*			*		NDP	*			NDP		*				0026-1L
1715.00	swc	Sh/Clst: m gy to gn gy	NDP	*	*		*	*		NDP	*			NDP		*				0027-1L
1757.00	swc	Sh/Clst: brn gy to gn gy	100	**	*	*	*	*		TR	*			TR		*				0028-1L
1786.00	swc	Sh/Clst: m gy to gn gy	NDP	**	*	*		*		NDP	*			NDP		*				0018-1L
1866.00	swc	Sh/Clst: m gy to gn gy to brn gy	65	*	*		*		*	TR	*	*		35	*	*	*			0019-1L
1929.00	swc	Sh/Clst: m gy	100		**		**	*		TR		*		TR	*	*	*			0015-1L

Table 9 : Visual Kerogen Composition Data for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	L I P T %	A m L t	L o p p e l	S p / D P o l	C u t P i c l	R e g i s t r a l n e	D i n g o f l	A c r i t L	B i t L	I N E R T %	F u s i n	S e m F u s e t	M e t D r e n	S c l e r o I	V I T R %	T e l l i n	C o l l i n t	V i t r i n e	A m B i t V	Sample
1996.00	swc	Sh/Clst: m gy	NDP	**	*							NDP	*				NDP	*			?	0011-1L
2056.00	swc	Sh/Clst: m gy to drk gy	5	*	**			?				35	*	**			60	*				0009-1L
2221.00	swc	Sh/Clst: m gy to brn gy	5	*	**			?				35	*	**			60	*	**			0007-1L
2252.00	swc	Sh/Clst: m gy to brn gy	10	*	**	*		* *				30	*	**			60	*	**			0005-1L
2329.50	swc	Sh/Clst: m gy to drk gy to brn gy	NDP	*	**			*				NDP	*				NDP	*	*			0003-1L
2341.10	swc	Sh/Clst: m gy to drk gy to brn gy	5	*	*	**		*		?		30	**	*			65	**	*			0004-1L
2473.00	swc	Sh/Clst: m gy to drk gy	NDP		*							NDP	*	*			NDP	**	*			0001-1L
2536.50	swc	bulk	95	**	*	*	**	*				TR	*				5	**	*			0072-0B
2585.50	swc	Sh/Clst: drk brn to brn blk	20	*	*	*	**					10	*				70	**	*	*		0065-1L
2631.00	swc	Sh/Clst: dsk brn to brn blk	40	*	*	*	*					20	*	*			40	**	*	*		0059-1L
2650.00	swc	Sh/Clst: brn gy to dsk brn to brn blk	80	*	*	*	*					5	**	*			15	*				0056-1L
2729.00	swc	Sh/Clst: brn blk	35	*	**		*			?		5	*	*			60	**	*			0053-1L

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	R	A	D	I	S	I	M	S	V	C	V	A	B	Sample		
			P	m	i	p	u	R	A	N	F	S	I	M	S	I	T	T	e	i		m	
			T	r	D	P	i	s	g	o	R	F	D	r	c	R	e	l	D	r			
			%	L	t	l	l	n	e	f	t	L	n	s	t	n	o	I	%	n	n	V	V
2762.00	swc	bulk	5		**	*		*			10	*				85	*					0051-0B	
2800.00	swc	bulk	TR			*	*	*			20	*	*			80	**	*				0050-0B	
2850.00	swc	bulk	10			*	*	*	*		10	*	*			80	**	*				0048-0B	
2905.00	swc	bulk	70			**	*	**	*		15	*				15	**	*				0046-0B	
2933.00	swc	bulk	100			**	*	**	*		TR	*				TR	*					0044-0B	
2997.00	swc	bulk	30	**	**	*		*			50	*	*			20	**	*				0040-0B	
3056.50	swc	bulk	5			*	**				5	*				90	*	*	*			0037-0B	
3105.00	swc	bulk	40	**	*	*					TR	*				60	*	*	*			0036-0B	

Table 10a : Tabulation of carbon isotope data for EOM/Oil - fractions or Oils for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	EOM/Oil	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
2536.50	swc		-30.13	-31.46	-29.78	-28.47	-26.58	-	0072-0B
2559.00	swc		-31.27	-32.28	-31.31	-29.29	-27.19	-	0070-1L
2572.00	swc		-28.74	-30.15	-29.22	-27.56	-26.52	-	0068-1L
2579.00	swc		-28.33	-30.14	-28.94	-27.40	-26.37	-	0066-1L
2585.50	swc		-27.28	-29.22	-28.54	-26.72	-25.94	-	0065-1L
2616.50	swc		-27.73	-29.15	-28.16	-27.10	-26.05	-	0061-1L
2631.00	swc		-26.14	-28.02	-26.56	-26.10	-25.39	-	0059-1L
2643.00	swc		-25.62	-27.88	-27.38	-25.64	-25.17	-	0058-1L
2650.00	swc		-25.36	-27.24	-27.46	-25.49	-25.07	-	0056-1L
2729.00	swc		-25.83	-29.63	-27.80	-25.79	-25.01	-	0053-1L
2915.00	swc		-28.92	-29.73	-29.10	-27.60	-26.40	-	0045-1L
2933.00	swc		-31.80	-32.42	-30.80	-29.83	-28.46	-	0044-1L
3047.00	swc		-25.88	-28.93	-28.32	-26.04	-25.48	-	0038-0B
3056.50	swc		-26.59	-29.52	-27.59	-26.51	-26.12	-	0037-0B
3120.00	cut		-	-29.12	-28.93	-26.39	-25.99	-	0078-4L

Table 10b : Tabulation of cv values from carbon isotope data for well NOCS 6407/6-4

Depth unit of measure: m

Depth	Typ	Lithology	Saturated	Aromatic	cv value	Sample
2536.50	swc		-31.46	-29.78	1.83	0072-0B
2559.00	swc		-32.28	-31.31	0.51	0070-1L
2572.00	swc		-30.15	-29.22	-0.24	0068-1L
2579.00	swc		-30.14	-28.94	0.36	0066-1L
2585.50	swc		-29.22	-28.54	-1.08	0065-1L
2616.50	swc		-29.15	-28.16	-0.42	0061-1L
2631.00	swc		-28.02	-26.56	0.28	0059-1L
2643.00	swc		-27.88	-27.38	-1.90	0058-1L
2650.00	swc		-27.24	-27.46	-3.69	0056-1L
2729.00	swc		-29.63	-27.80	1.60	0053-1L
2915.00	swc		-29.73	-29.10	-1.04	0045-1L
2933.00	swc		-32.42	-30.80	2.00	0044-1L
3047.00	swc		-28.93	-28.32	-1.33	0038-0B
3056.50	swc		-29.52	-27.59	1.79	0037-0B
3120.00	cut		-29.12	-28.93	-2.20	0078-4L

Table 11A: Variation in Triterpane Distribution (peak height) for Well NOCS 6407/6-4

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
2536.50	bulk	2.94	0.75	0.21	0.47	0.32	0.08	0.05	0.10	0.04	0.07	0.82	0.33	0.24	50.57	0072-0		
2559.00	Sh/Clst	4.06	0.80	0.22	0.41	0.29	0.03	0.57	1.36	0.36	0.09	0.92	0.29	0.09	60.60	0070-1		
2572.00	Sh/Clst	9.37	0.90	0.34	0.64	0.39	0.07	1.95	3.04	0.66	0.06	0.88	0.39	0.14	60.96	0068-1		
2579.00	Sh/Clst	5.84	0.85	0.25	1.21	0.55	0.07	4.47	3.69	0.82	0.03	0.84	0.53	0.14	58.32	0066-1		
2585.50	Sh/Clst	9.24	0.90	0.27	0.54	0.35	0.09	0.05	0.09	0.05	0.01	0.78	0.36	0.30	53.43	0065-1		
2616.50	Sh/Clst	5.59	0.85	0.24	0.55	0.35	0.08	0.34	0.62	0.25	0.02	0.81	0.36	0.24	55.76	0061-1		
2631.00	Sh/Clst	8.87	0.90	0.26	0.46	0.32	0.09	0.04	0.09	0.04	0.02	0.73	0.30	0.34	58.06	0059-1		
2643.00	Sh/Clst	8.32	0.89	0.22	0.46	0.32	0.07	0.06	0.12	0.05	0.03	0.74	0.31	0.34	58.35	0058-1		
2650.00	Sh/Clst	9.77	0.91	0.24	0.55	0.35	0.08	0.10	0.18	0.09	0.02	0.74	0.35	0.33	57.84	0056-1		
2729.00	Sh/Clst	8.83	0.90	0.25	0.62	0.38	0.08	0.04	0.06	0.04	0.02	0.76	0.38	0.32	54.95	0053-1		
2915.00	Sh/Clst	8.41	0.89	0.28	0.74	0.43	0.07	0.11	0.14	0.10	0.04	0.78	0.42	0.26	57.82	0045-1		
2933.00	Sh/Clst	2.02	0.67	0.16	0.55	0.36	0.07	0.06	0.11	0.06	0.05	0.85	0.36	0.18	57.40	0044-1		
3047.00	bulk	29.34	0.97	0.26	0.59	0.37	0.09	0.06	0.11	0.06	0.01	0.84	0.38	0.21	59.01	0038-0		
3056.50	bulk	-	1.00	0.31	0.93	0.48	0.03	0.05	0.06	0.05	-	0.78	0.46	0.24	60.75	0037-0		

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	<u>B</u>	C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	<u>C+D</u>	D+F/C+E	<u>J1</u>	Sample
				B+E+F									C+D+E+F		J1+J2%	
3120.00	Coal	96.48	0.99	0.38	1.08	0.52	0.03	-	-	-	-	0.77	0.50	0.25	62.91	0078-4

Table 11B: Variation in Sterane Distribution (peak height) for Well NOCS 6407/6-4

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
2536.50	bulk	0.46	19.19	41.21	1.54	0.65	0.22	0.16	0.26	0.24	0.43	0072-0
2559.00	Sh/Clst	0.75	42.78	69.66	1.62	0.73	0.40	0.28	0.53	0.75	2.01	0070-1
2572.00	Sh/Clst	0.82	39.88	75.76	1.43	0.80	0.34	0.25	0.61	0.66	2.60	0068-1
2579.00	Sh/Clst	0.71	23.83	74.71	1.50	0.86	0.21	0.17	0.60	0.31	1.94	0066-1
2585.50	Sh/Clst	0.66	25.01	49.72	1.07	0.66	0.27	0.21	0.33	0.33	0.66	0065-1
2616.50	Sh/Clst	0.64	23.00	51.05	1.22	0.69	0.26	0.20	0.34	0.30	0.68	0061-1
2631.00	Sh/Clst	0.68	29.82	47.31	1.01	0.60	0.23	0.16	0.31	0.42	0.64	0059-1
2643.00	Sh/Clst	0.66	32.43	47.99	1.61	0.59	0.19	0.14	0.32	0.48	0.68	0058-1
2650.00	Sh/Clst	0.69	31.59	48.97	1.11	0.60	0.17	0.13	0.32	0.46	0.70	0056-1
2729.00	Sh/Clst	0.73	22.82	46.98	0.70	0.66	0.23	0.19	0.31	0.30	0.57	0053-1
2915.00	Sh/Clst	0.72	37.96	51.48	1.37	0.58	0.30	0.25	0.35	0.61	0.85	0045-1
2933.00	Sh/Clst	0.58	33.87	44.17	0.95	0.54	0.14	0.12	0.28	0.51	0.60	0044-1

Ratio1: $a / a + j$ Ratio2: $q / q + t * 100\%$ Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$ Ratio4: $a + b + c + d / h + k + l + n$ Ratio5: $r + s / r + s + q$ Ratio6: $u + v / u + v + q + r + s + t$ Ratio7: $u + v / u + v + i + m + n + q + r + s + t$ Ratio8: $r + s / q + r + s + t$ Ratio9: q / t Ratio10: $r + s / t$

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3047.00	bulk	0.80	37.53	55.96	0.28	0.63	0.21	0.18	0.39	0.60	1.02	0038-0
3056.50	bulk	0.43	32.52	44.74	0.11	0.55	0.09	0.08	0.29	0.48	0.60	0037-0
3120.00	Coal	0.79	34.84	47.39	0.38	0.56	0.25	0.23	0.31	0.53	0.69	0078-4

Ratio1: $a / a + j$ Ratio2: $q / q + t * 100\%$ Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$ Ratio4: $a + b + c + d / h + k + l + n$ Ratio5: $r + s / r + s + q$ Ratio6: $u + v / u + v + q + r + s + t$ Ratio7: $u + v / u + v + i + m + n + q + r + s + t$ Ratio8: $r + s / q + r + s + t$ Ratio9: q / t Ratio10: $r + s / t$

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
2536.50	bulk	0.40	0.27	0.12	0.17	0.17	0072-0
2559.00	Sh/Clst	0.46	0.43	0.13	0.17	0.14	0070-1
2572.00	Sh/Clst	0.45	0.35	0.14	0.20	0.19	0068-1
2579.00	Sh/Clst	0.43	0.32	0.13	0.18	0.17	0066-1
2585.50	Sh/Clst	0.52	0.37	0.18	0.24	0.27	0065-1
2616.50	Sh/Clst	0.45	0.30	0.17	0.22	0.27	0061-1
2631.00	Sh/Clst	0.27	0.20	0.11	0.12	0.21	0059-1
2643.00	Sh/Clst	0.51	0.42	0.27	0.31	0.40	0058-1
2650.00	Sh/Clst	0.58	0.40	0.24	0.32	0.37	0056-1
2729.00	Sh/Clst	0.55	0.37	0.22	0.27	0.36	0053-1
2915.00	Sh/Clst	0.43	0.30	0.16	0.21	0.27	0045-1
2933.00	Sh/Clst	0.27	0.18	0.11	0.12	0.20	0044-1
3047.00	bulk	0.58	0.37	0.33	0.33	0.58	0038-0

Ratio1: a1 / a1 + g1

Ratio2: b1 / b1 + g1

Ratio3: a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1

Ratio4: a1 / a1 + e1 + f1 + g1

Ratio5: a1 / a1 + d1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
3056.50	bulk	0.52	0.35	0.33	0.29	0.69	0037-0
3120.00	Coal	-	-	-	-	-	0078-4

Ratio1: $a1 / a1 + g1$ Ratio2: $b1 / b1 + g1$ Ratio3: $a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1$ Ratio4: $a1 / a1 + e1 + f1 + g1$ Ratio5: $a1 / a1 + d1$

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Sample
2536.50	bulk	0.16	0.08	0.09	0.07	0072-0
2559.00	Sh/Clst	0.20	0.13	0.12	0.11	0070-1
2572.00	Sh/Clst	0.19	0.11	0.11	0.10	0068-1
2579.00	Sh/Clst	0.18	0.10	0.10	0.09	0066-1
2585.50	Sh/Clst	0.23	0.13	0.13	0.11	0065-1
2616.50	Sh/Clst	0.32	0.14	0.19	0.13	0061-1
2631.00	Sh/Clst	0.30	0.16	0.13	0.10	0059-1
2643.00	Sh/Clst	0.33	0.19	0.17	0.14	0058-1
2650.00	Sh/Clst	0.33	0.21	0.20	0.15	0056-1
2729.00	Sh/Clst	0.23	0.14	0.12	0.11	0053-1
2915.00	Sh/Clst	0.25	0.18	0.15	0.13	0045-1
2933.00	Sh/Clst	0.22	0.14	0.10	0.09	0044-1
* 3047.00	bulk	0.29	0.30	0.19	0.25	0038-0
3056.50	bulk	-	-	-	-	0037-0

Ratio1: A1 / A1 + E1

Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1

Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

* = uncertain measurement, due to coelution problem

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
3120.00	Coal	-	-	-	-	0078-4

Ratio1: $A1 / A1 + E1$
 Ratio2: $B1 / B1 + E1$

Ratio3: $A1 / A1 + E1 + G1$
 Ratio4: $A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1$

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
2536.50	bulk	0.84	0.42	0072-0
2559.00	Sh/Clst	0.73	0.65	0070-1
2572.00	Sh/Clst	0.81	0.59	0068-1
2579.00	Sh/Clst	0.80	0.49	0066-1
2585.50	Sh/Clst	0.82	0.38	0065-1
2616.50	Sh/Clst	0.78	0.65	0061-1
2631.00	Sh/Clst	0.79	0.72	0059-1
2643.00	Sh/Clst	0.79	0.66	0058-1
2650.00	Sh/Clst	0.50	0.89	0056-1
2729.00	Sh/Clst	0.79	0.55	0053-1
2915.00	Sh/Clst	0.45	0.90	0045-1
2933.00	Sh/Clst	0.51	0.86	0044-1
* 3047.00	bulk	0.47	0.84	0038-0

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

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

* = uncertain measurement, due to coelution problem

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3056.50	bulk	0.33	0.91	0037-0
3120.00	Coal	-	-	0078-4

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

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

Table 11F: Raw GCMS triterpane data (peak height) for Well NOCS 6407/6-4

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
2536.50	bulk	130.83	43.37	63.87	32.79	17.16	69.16	203.66	29.11	302.90	0072-0
		48.76	83.31	640.49	138.52	254.33	193.37	89.47	110.26		
		107.76	114.90	111.32	59.94	66.52	81.78	87.62			
2559.00	Sh/Clst	52.04	57.04	31.71	30.19	10.36	47.84	194.23	358.18	262.99	0070-1
		16.35	23.45	633.72	57.80	295.21	187.58	40.16	148.51		
		96.55	122.89	76.38	68.47	39.52	74.63	39.07			
2572.00	Sh/Clst	48.49	33.96	15.65	41.74	7.31	36.13	338.44	1144.14	376.08	0068-1
		40.82	50.43	586.92	82.35	277.39	181.97	58.46	109.60		
		70.19	110.15	65.43	57.83	30.94	54.75	29.54			
2579.00	Sh/Clst	50.08	24.28	16.51	47.68	6.49	52.08	303.97	3487.34	943.82	0066-1
		56.70	86.10	779.72	149.85	347.76	227.06	97.41	135.76		
		97.02	124.46	82.90	69.77	46.61	64.67	42.02			
2585.50	Sh/Clst	47.16	16.77	14.21	59.51	5.69	61.95	572.46	60.92	643.15	0065-1
		105.56	217.01	1198.92	336.46	630.44	446.05	236.88	229.55		
		200.06	149.99	129.21	109.44	94.96	82.19	63.38			

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
2616.50	Sh/Clst	58.67	21.87	21.67	55.94	4.30	71.98	402.17	348.58	560.17	0061-1
		82.67	141.49	1019.52	234.29	471.99	324.93	149.97	165.36		
		131.22	144.93	108.58	89.17	66.72	70.37	51.45			
2631.00	Sh/Clst	82.51	26.41	29.26	62.60	9.30	61.13	542.33	46.19	524.24	0059-1
		97.57	150.80	1131.45	415.79	701.79	491.48	246.85	259.60		
		187.55	173.05	119.57	141.16	96.81	96.08	67.75			
2643.00	Sh/Clst	81.99	29.59	39.11	57.80	9.81	50.11	416.77	61.40	492.14	0058-1
		77.52	153.92	1063.70	382.29	526.19	348.59	183.86	237.70		
		169.69	175.62	116.23	145.86	97.97	112.16	71.14			
2650.00	Sh/Clst	61.38	18.30	31.10	51.63	6.11	40.60	396.47	92.55	510.17	0056-1
		70.75	157.75	930.88	320.83	487.67	328.69	177.43	214.54		
		156.41	137.59	95.65	102.77	70.06	68.52	40.20			
2729.00	Sh/Clst	33.54	14.91	0.00	117.29	0.00	50.69	447.35	39.55	617.43	0053-1
		81.70	191.30	992.14	317.94	617.16	443.80	244.36	232.86		
		190.91	105.31	79.86	57.38	42.61	29.23	20.30			

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
2915.00	Sh/Clst	118.92	45.47	28.22	108.60	13.78	61.52	517.36	109.99	773.97	0045-1
		77.62	182.18	1041.20	293.86	596.32	400.12	199.82	238.87		
		174.29	142.16	93.51	71.69	41.47	20.10	11.02			
2933.00	Sh/Clst	152.73	51.11	42.11	57.64	18.56	113.56	229.58	62.80	554.00	0044-1
		69.72	97.99	999.81	180.47	455.87	320.64	132.39	243.33		
		180.61	155.74	111.49	79.18	55.46	26.62	16.23			
3047.00	bulk	13.74	7.95	4.09	30.80	0.00	9.36	274.60	43.37	394.98	0038-0
		58.45	89.93	667.38	130.20	216.08	143.81	64.71	82.59		
		57.36	27.70	14.67	13.16	7.83	0.00	0.00			
3056.50	bulk	0.00	0.00	0.00	158.00	0.00	0.00	1264.43	111.43	2001.84	0037-0
		59.34	361.80	2152.22	620.73	1209.39	881.40	341.89	589.25		
		380.76	189.01	110.03	64.30	32.90	0.00	0.00			
3120.00	Coal	3.20	0.00	0.00	22.94	0.00	1.80	173.67	0.00	232.00	0078-4
		7.43	46.75	215.12	63.29	113.58	67.62	29.86	45.35		
		26.74	9.20	4.37	2.10	0.60	0.00	0.00			

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
2536.50	bulk	171.88	62.40	589.34	437.62	177.75	146.60	319.01	212.88	297.44	0072-0
		336.80	148.00	693.86	327.46	83.06	100.36	132.93	101.44		
		480.21	117.80	159.34	55.86	496.13					
2559.00	Sh/Clst	160.90	56.61	324.53	201.46	77.69	90.26	137.79	79.73	120.23	0070-1
		190.79	108.53	107.31	128.05	38.42	65.53	71.45	77.64		
		69.72	64.99	118.66	55.75	86.94					
2572.00	Sh/Clst	224.96	63.89	493.60	303.42	140.99	140.05	232.43	121.30	125.51	0068-1
		353.20	155.13	109.08	241.96	73.30	57.33	85.60	100.45		
		70.33	85.57	247.40	87.92	129.02					
2579.00	Sh/Clst	165.00	53.16	449.98	291.32	119.15	120.19	222.91	129.66	161.58	0066-1
		293.84	116.27	180.13	223.23	68.79	57.09	67.14	76.88		
		118.72	79.43	395.20	97.17	253.83					
2585.50	Sh/Clst	160.92	40.35	381.98	268.38	122.70	90.11	183.56	106.72	119.87	0065-1
		384.19	104.20	195.41	281.55	78.75	35.57	60.97	64.13		
		119.08	92.16	121.36	60.84	276.39					

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
2616.50	Sh/Clst	145.08	42.52	383.08	256.32	104.08	100.49	160.87	94.98	138.03	0061-1
		338.50	98.56	216.27	236.65	61.07	44.85	55.25	62.90		
		132.17	82.74	132.04	55.55	276.94					
2631.00	Sh/Clst	196.58	58.26	620.93	412.02	188.11	154.38	289.34	166.61	242.45	0059-1
		609.24	181.53	292.67	417.49	127.87	71.72	206.92	105.30		
		207.02	178.30	173.79	94.68	419.66					
2643.00	Sh/Clst	128.05	32.81	629.84	409.38	172.69	173.22	207.49	116.26	226.97	0058-1
		418.01	133.35	321.11	290.12	80.49	68.46	72.10	71.31		
		152.44	151.22	139.55	75.56	315.10					
2650.00	Sh/Clst	101.62	25.88	451.54	287.76	117.64	124.39	140.27	75.45	145.69	0056-1
		459.22	104.12	206.02	291.94	93.97	50.01	42.66	48.29		
		91.00	134.25	135.44	68.44	290.66					
2729.00	Sh/Clst	75.32	15.46	150.12	96.62	45.37	41.55	65.48	35.57	50.99	0053-1
		249.25	46.00	55.73	150.98	58.54	15.00	15.55	15.88		
		44.15	47.35	61.47	30.47	160.13					

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
2915.00	Sh/Clst	129.48 238.82 44.57	34.68 69.23 93.91	290.22 114.55 87.04	178.77 140.06 44.19	71.50 42.85 153.50	77.63 26.43	74.99 29.54	39.64 28.56	114.19	0045-1
2933.00	Sh/Clst	130.51 446.72 126.83	38.05 105.58 249.47	382.17 276.39 196.97	237.09 275.34 94.39	88.65 82.91 487.12	97.89 59.67	115.54 46.26	62.95 36.85	210.27	0044-1
3047.00	bulk	16.52 62.23 4.14	4.46 8.66 18.44	16.15 3.95 20.60	8.18 30.21 10.62	2.81 12.25 30.70	3.30 2.90	10.50 5.43	4.75 6.04	6.39	0038-0
3056.50	bulk	30.60 107.96 20.35	3.87 13.32 84.21	9.59 12.55 68.32	5.76 56.58 36.47	3.62 24.16 174.70	3.36 1.68	21.50 15.83	12.42 9.76	16.08	0037-0
3120.00	Coal	5.56 8.54 1.18	1.23 1.98 4.78	2.95 0.78 3.93	1.21 3.39 2.25	0.47 1.22 8.94	0.70 0.00	1.40 1.06	0.95 1.28	1.08	0078-4

Table 11H: Raw GCMS trioaromatic sterane data (peak height) for Well NOCS 6407/6-4

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
2536.50	bulk	148.48	80.91	254.51	722.12	171.18	337.02	224.16	0072-0
2559.00	Sh/Clst	301.62	266.54	666.70	1840.44	310.44	787.56	353.06	0070-1
2572.00	Sh/Clst	195.76	125.15	335.72	816.94	219.48	345.38	235.28	0068-1
2579.00	Sh/Clst	135.72	85.36	249.86	650.57	170.54	284.37	181.23	0066-1
2585.50	Sh/Clst	116.67	63.45	130.04	319.12	119.21	142.30	108.36	0065-1
2616.50	Sh/Clst	134.26	68.80	171.56	369.21	180.18	140.00	162.27	0061-1
2631.00	Sh/Clst	78.48	51.95	132.47	301.50	250.84	115.33	209.39	0059-1
2643.00	Sh/Clst	51.91	35.47	36.46	78.09	38.99	27.64	49.62	0058-1
2650.00	Sh/Clst	353.70	171.48	333.55	602.76	293.68	209.02	253.16	0056-1
2729.00	Sh/Clst	54.91	26.41	39.14	97.49	58.76	43.22	44.40	0053-1
2915.00	Sh/Clst	1022.54	569.61	1466.61	2808.47	1381.68	1086.47	1358.67	0045-1
2933.00	Sh/Clst	192.40	117.22	402.84	789.45	598.28	309.10	517.56	0044-1
3047.00	bulk	76.06	32.69	15.00	55.70	67.85	29.79	54.97	0038-0
3056.50	bulk	242.90	118.93	23.61	108.35	323.58	61.19	223.76	0037-0
3120.00	Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0078-4

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
2536.50	bulk	467.40	215.70	866.61	1092.30	2486.41	252.24	2485.11	1213.93	314.47	0072-0
2559.00	Sh/Clst	864.46	550.05	1391.33	1490.47	3556.11	489.49	2815.86	1038.50	186.54	0070-1
2572.00	Sh/Clst	606.48	325.71	1180.06	1153.89	2629.46	421.59	2283.24	759.69	162.35	0068-1
2579.00	Sh/Clst	426.05	231.24	750.05	771.86	1979.19	255.12	1712.32	624.55	186.14	0066-1
2585.50	Sh/Clst	321.89	163.90	507.52	457.14	1054.24	192.86	1032.09	385.05	173.20	0065-1
2616.50	Sh/Clst	413.37	149.03	628.68	527.11	891.83	200.78	888.61	402.97	87.56	0061-1
2631.00	Sh/Clst	303.22	136.45	452.86	374.78	717.97	154.95	1251.70	727.82	82.08	0059-1
2643.00	Sh/Clst	91.42	44.11	105.36	88.77	189.54	51.14	261.49	136.36	25.33	0058-1
2650.00	Sh/Clst	203.69	104.66	274.05	227.81	405.35	111.82	430.86	221.03	30.79	0056-1
2729.00	Sh/Clst	84.41	44.36	126.31	107.02	281.80	58.63	313.03	164.62	36.68	0053-1
2915.00	Sh/Clst	572.15	394.65	949.86	838.44	1741.54	406.15	1585.06	834.43	142.97	0045-1
2933.00	Sh/Clst	164.30	91.43	320.95	299.30	577.13	110.24	847.59	472.59	81.53	0044-1
3047.00	bulk	31.54	34.28	7.59	8.60	79.05	13.29	51.75	25.88	10.32	0038-0
3056.50	bulk	0.00	0.00	0.00	0.00	* 68.09	26.58	158.08	97.67	21.69	0037-0
3120.00	Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0078-4

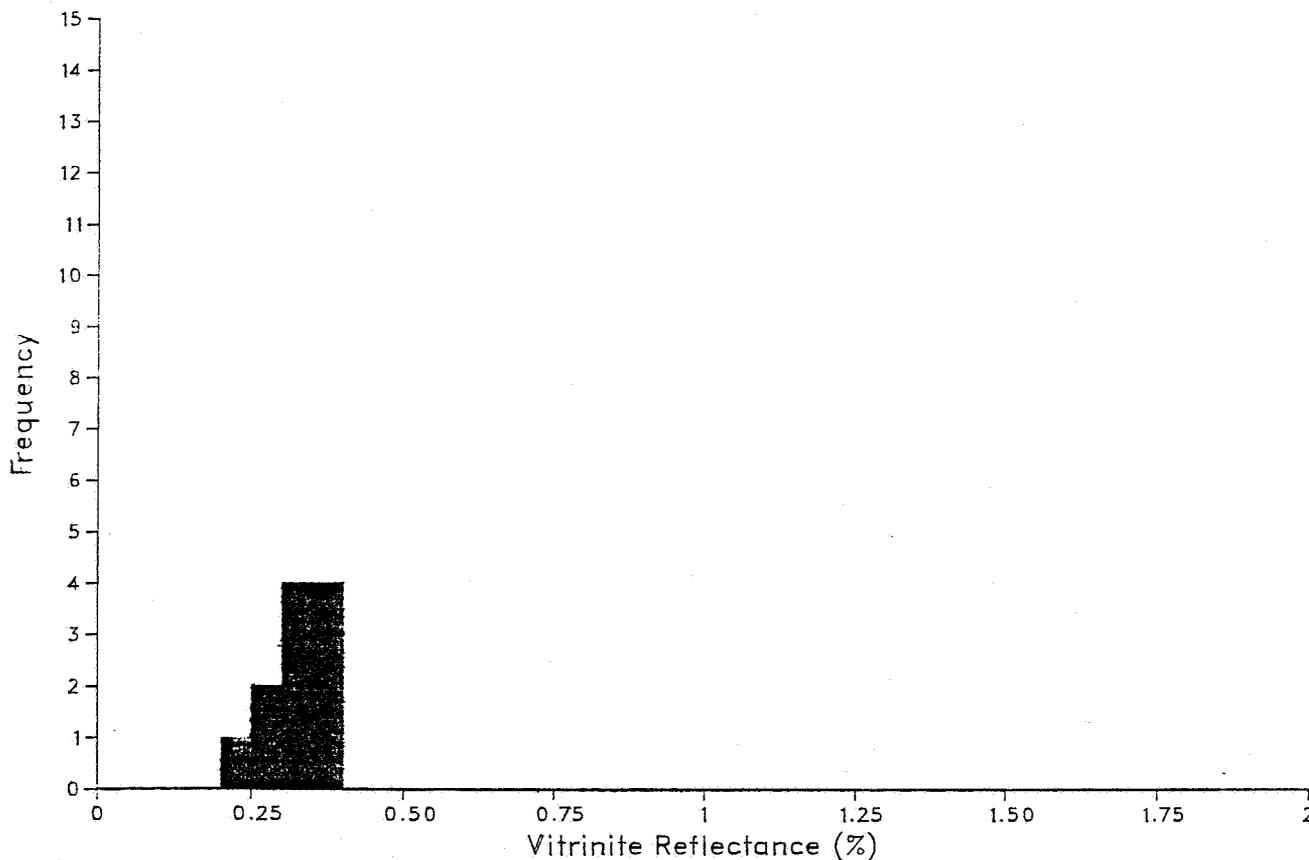
* = uncertain measurement, coelutes with strong unidentified

APPENDIX 2

VITRINITE REFLECTANCE
HISTOGRAMS

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1117.00(m)

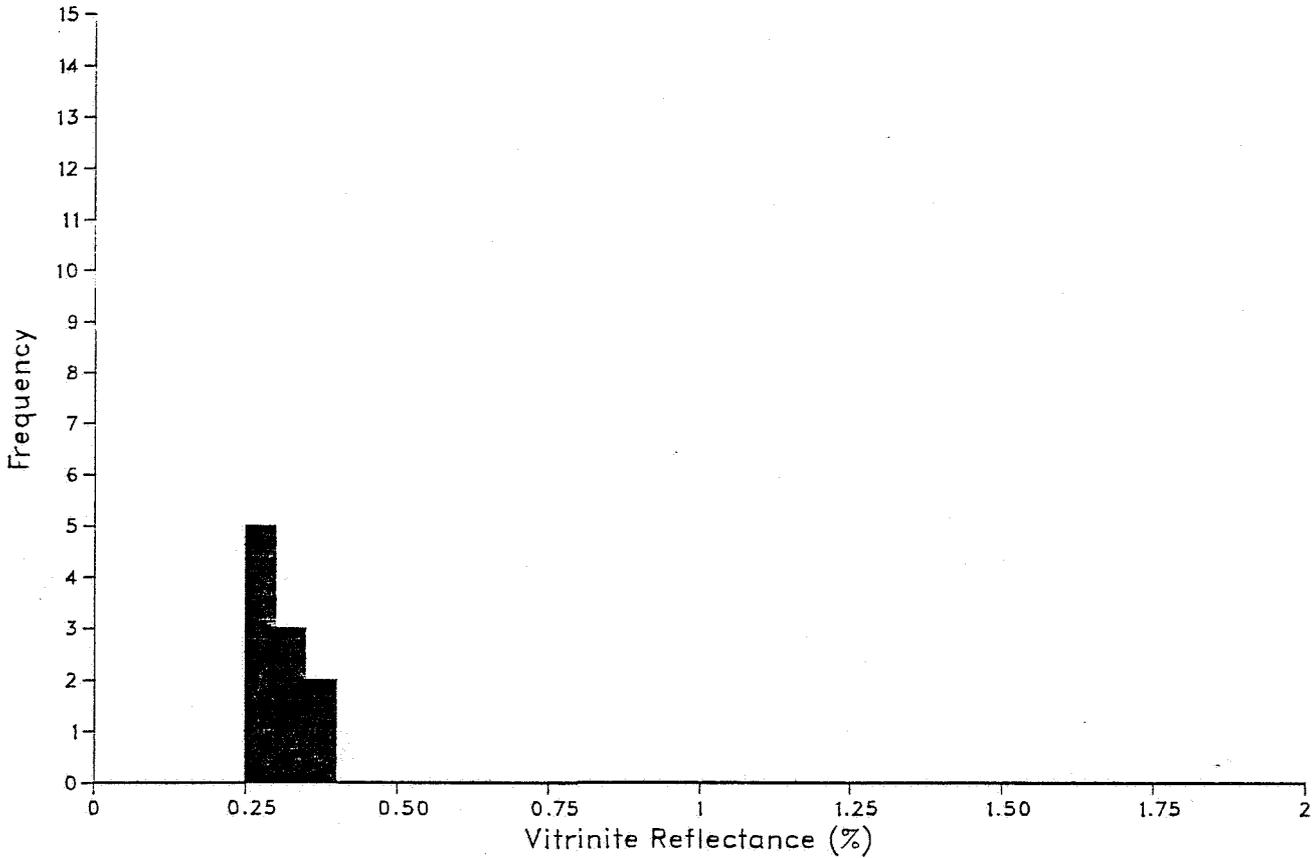


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.200 to 0.400):	0.32	0.04	11

Readings:
0.240 0.280 0.290 0.300 0.310 0.320 0.340 0.350 0.360 0.370 0.380

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1291.00(m)

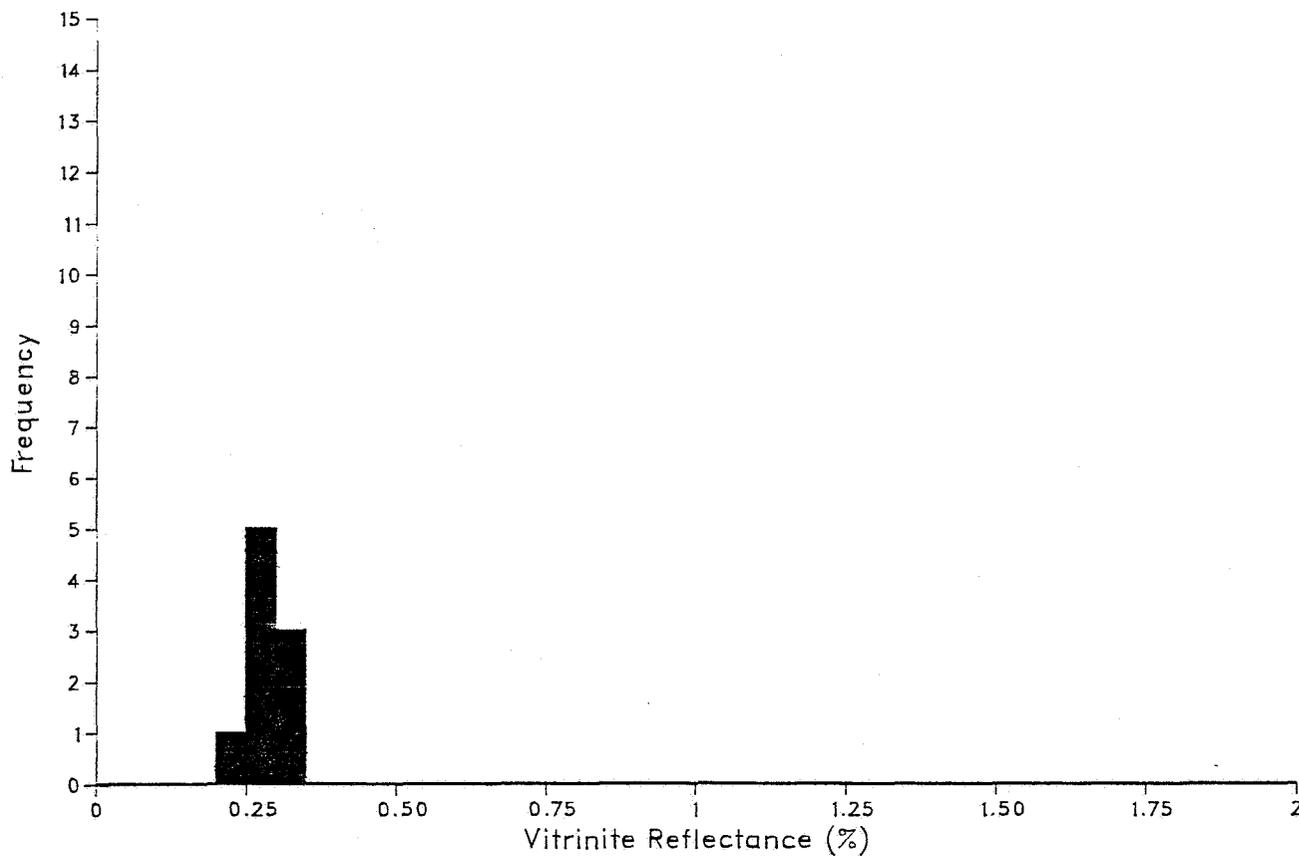


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.200 to 0.400):	0.30	0.05	10

Readings:
0.250 0.260 0.270 0.280 0.290 0.300 0.310 0.320 0.370 0.390

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1378.00(m)

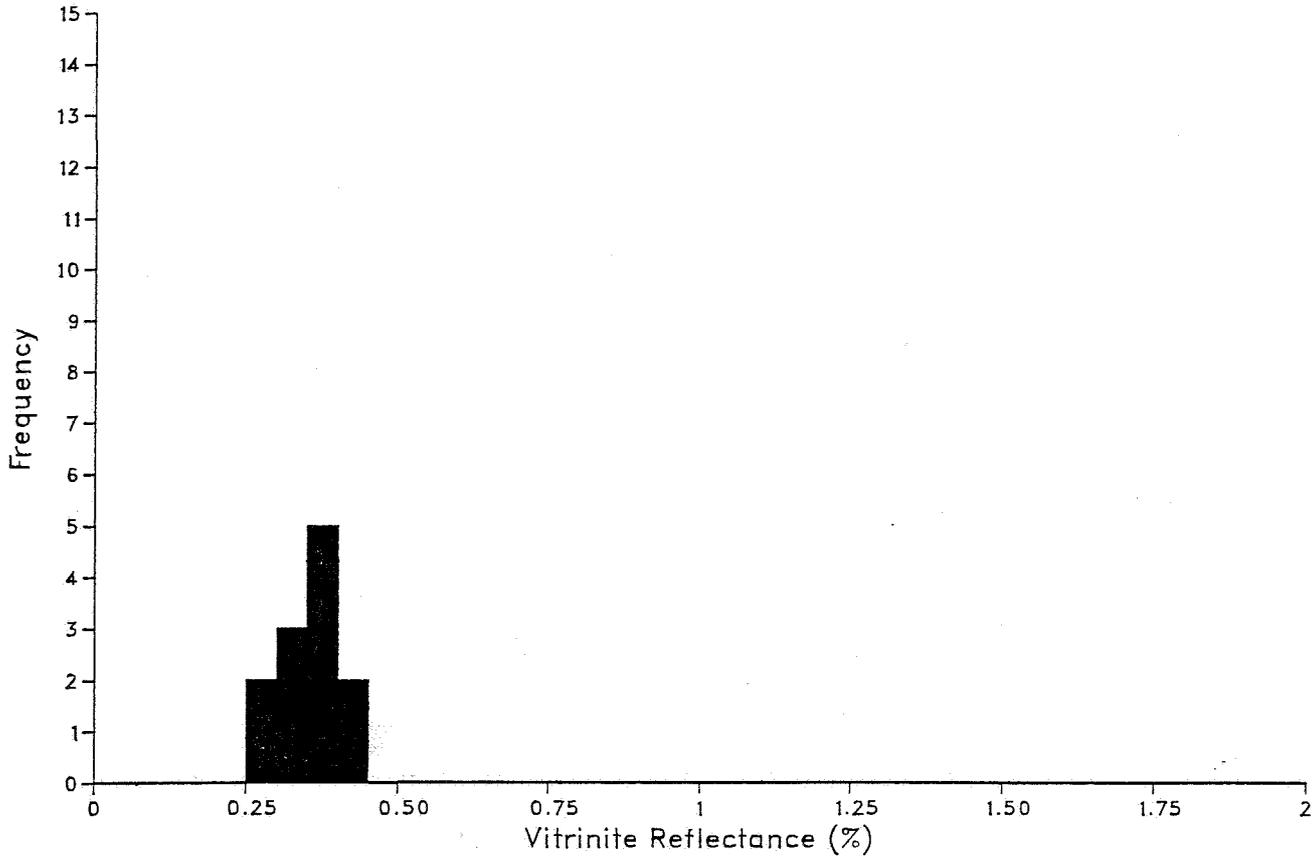


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.200 to 0.350):	0.28	0.03	9

Readings:
0.240 0.250 0.260 0.270 0.280 0.290 0.300 0.310 0.320

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1452.00(m)

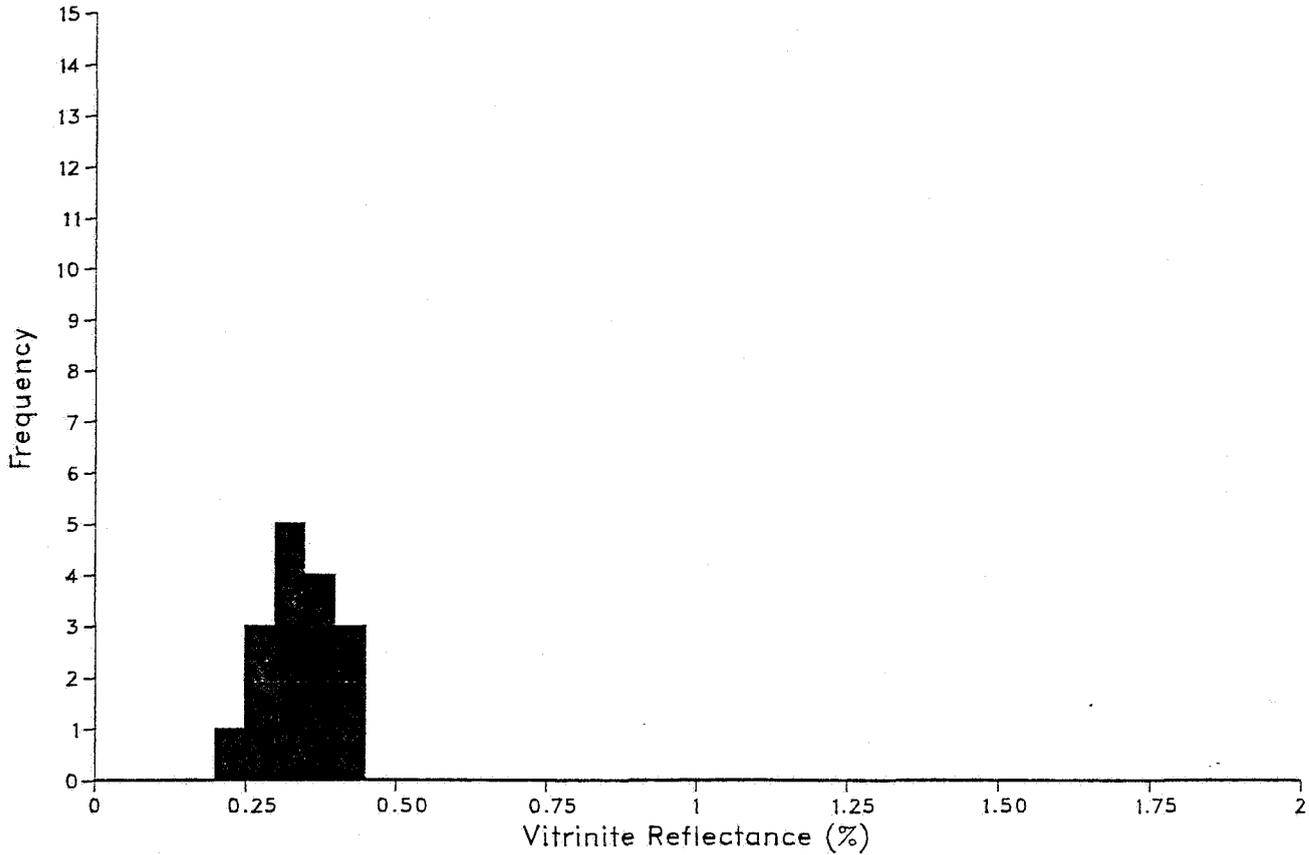


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.200 to 0.450):	0.35	0.05	12

Readings:									
0.260	0.290	0.300	0.310	0.320	0.350	0.360	0.370	0.380	0.390
0.400	0.410								

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1528.00(m)

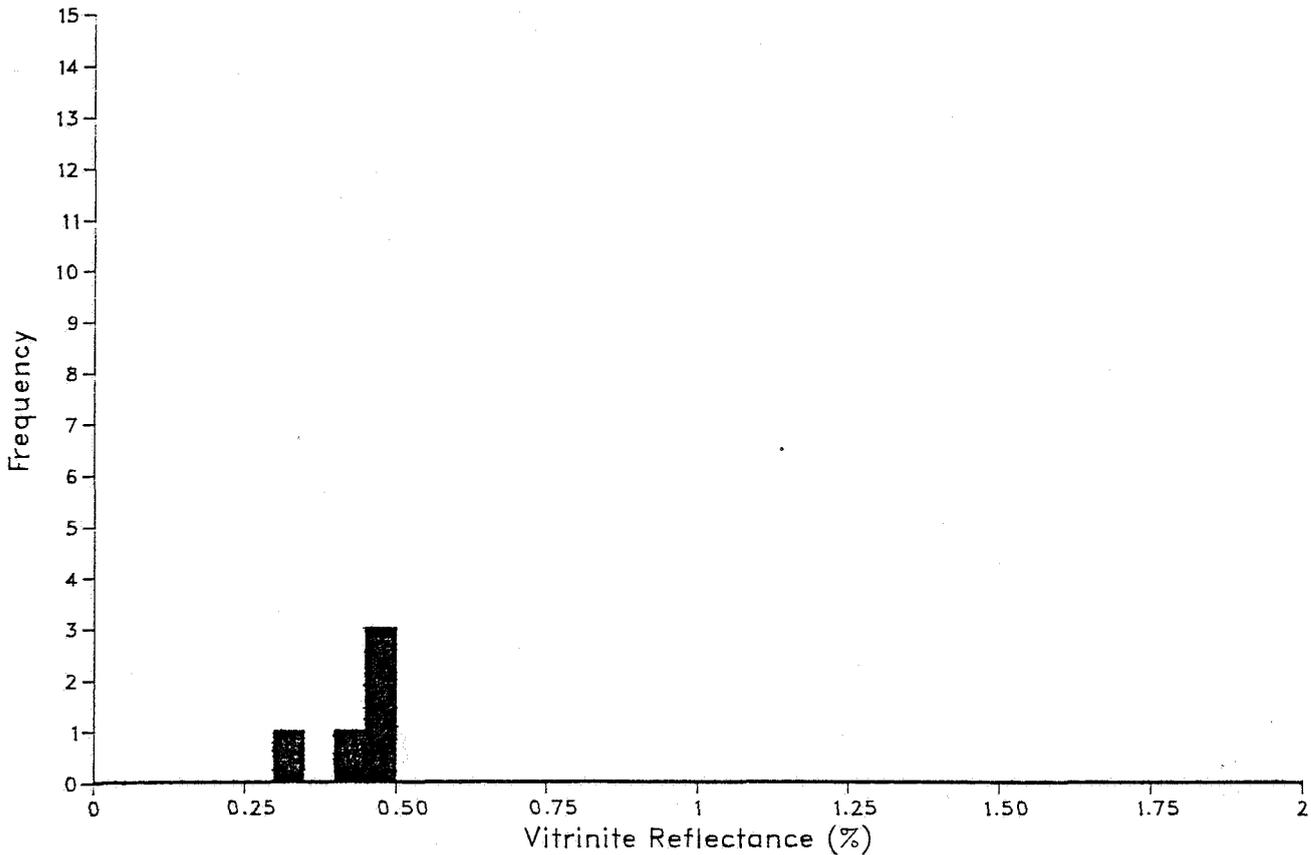


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.200 to 0.450):	0.34	0.06	16

Readings:									
0.230	0.250	0.260	0.280	0.300	0.310	0.320	0.330	0.340	0.350
0.370	0.380	0.390	0.400	0.420	0.430				

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1611.00(m)

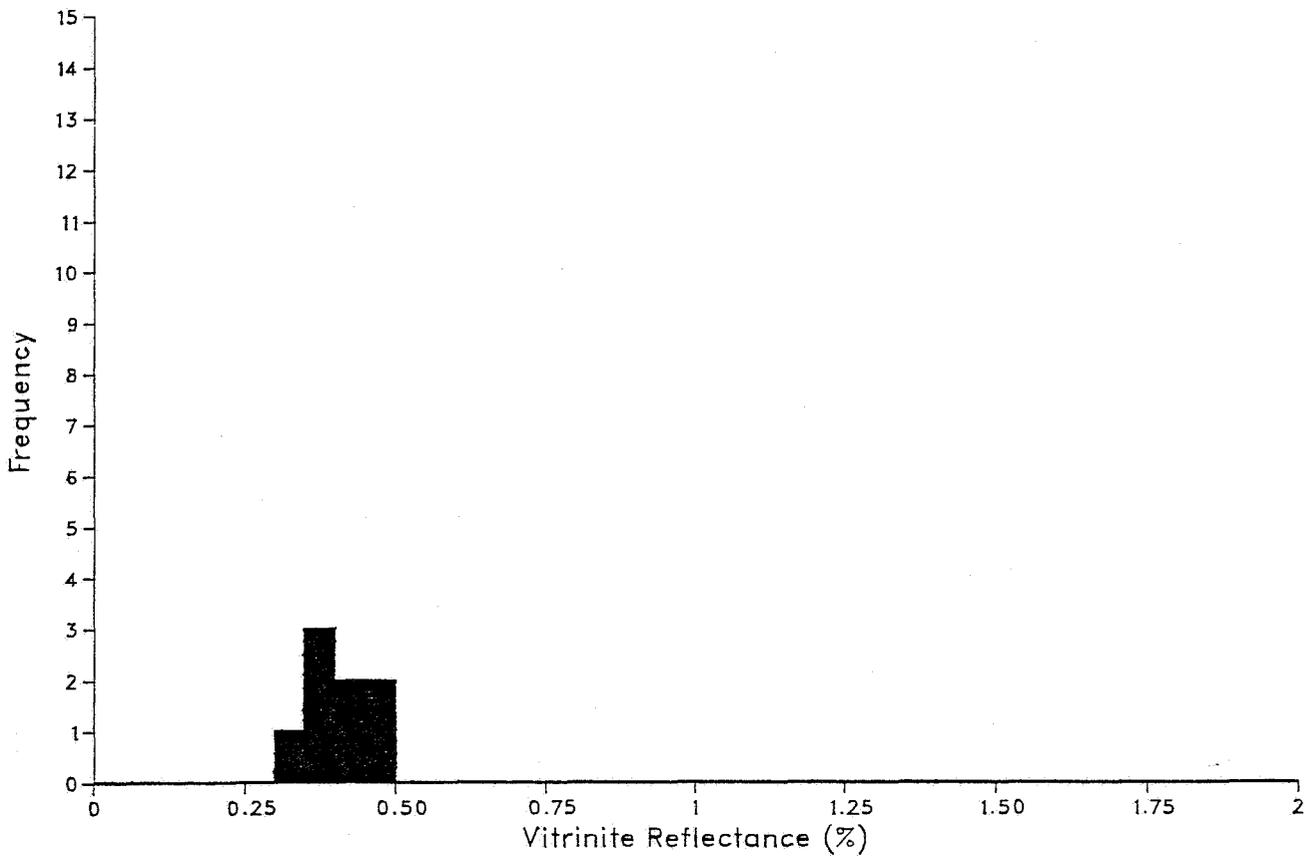


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.300 to 0.500):	0.44	0.07	5

Readings:
0.320 0.430 0.470 0.480 0.490

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1693.00(m)

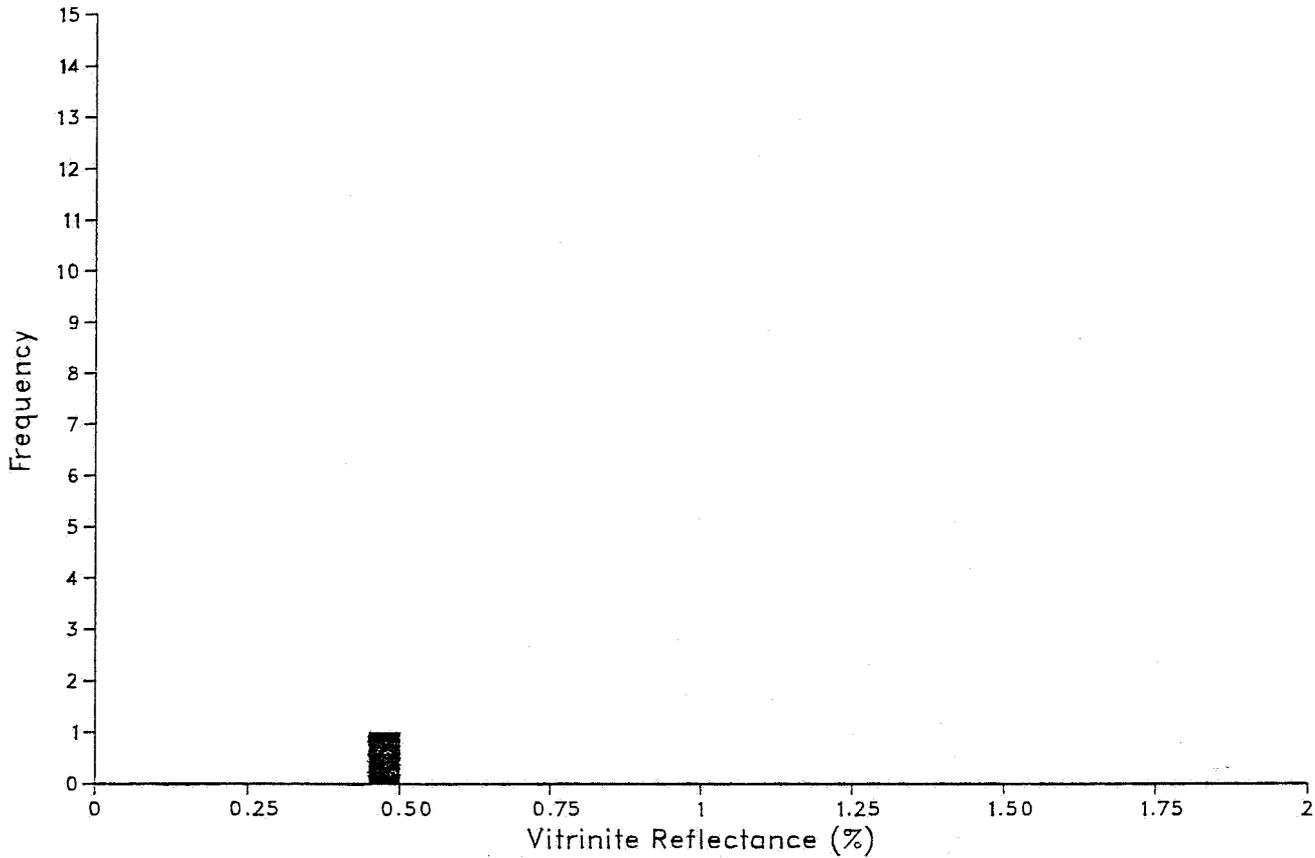


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.300 to 0.500):	0.41	0.05	8

Readings:
0.330 0.360 0.370 0.390 0.430 0.440 0.470 0.480

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1778.50(m)

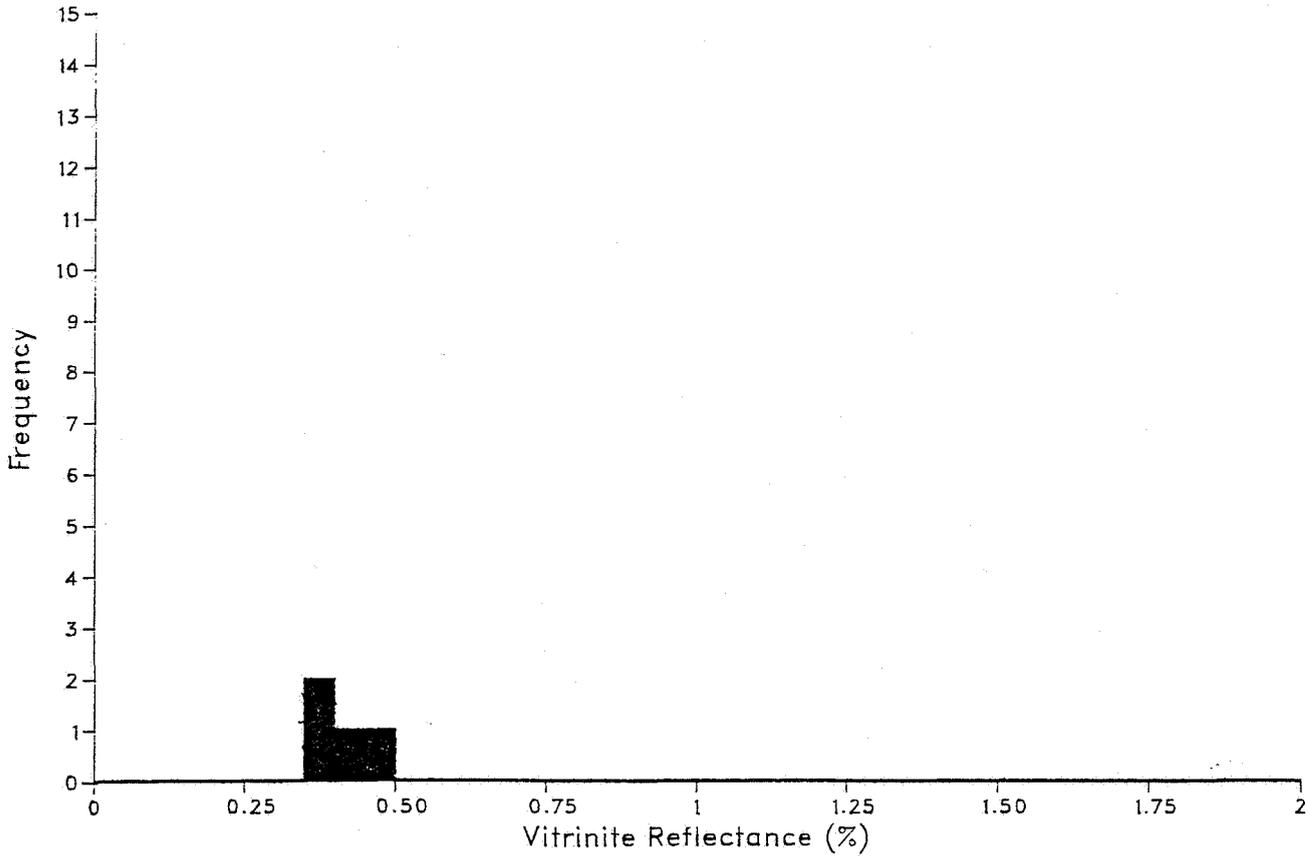


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.400 to 0.500):	0.46	0.00	1

Readings:
0.460

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1866.00(m)

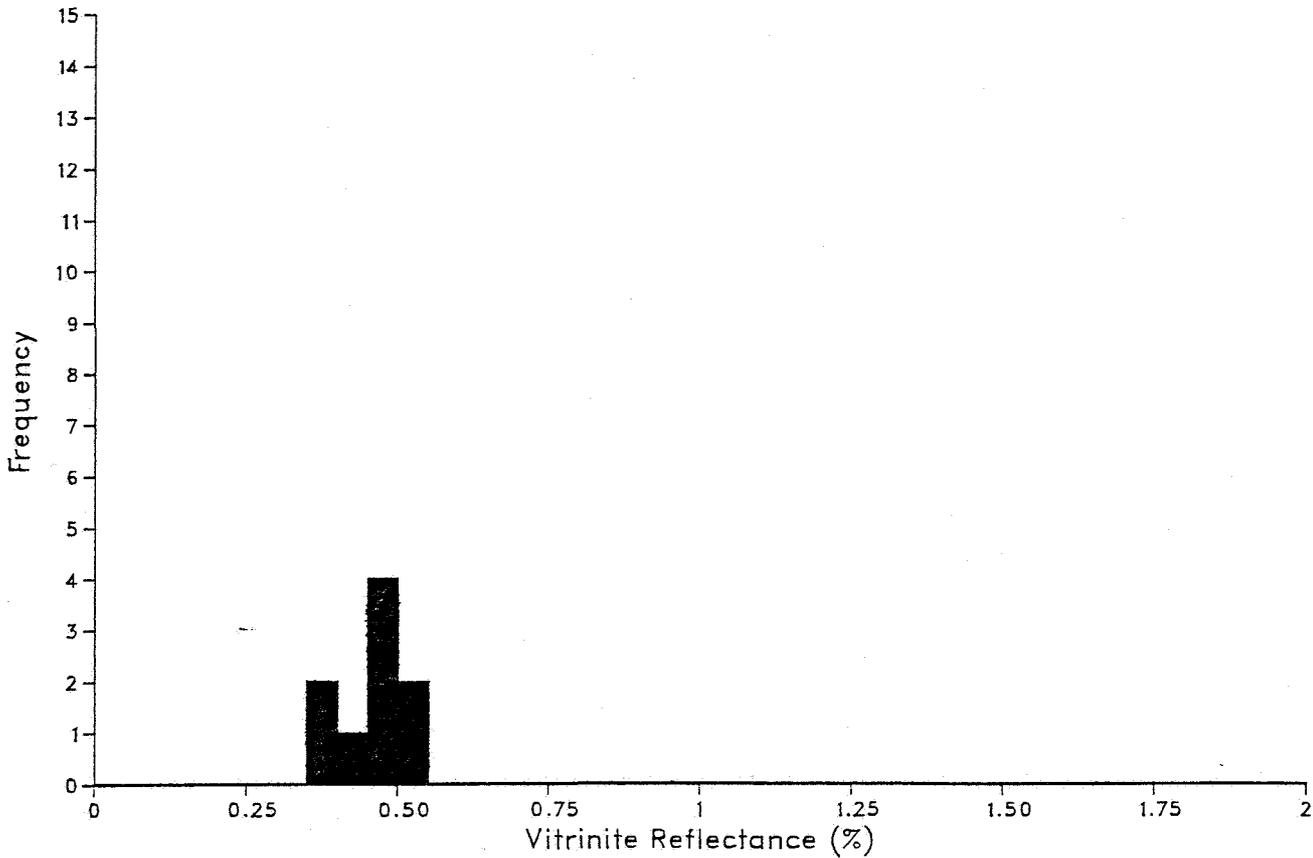


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.300 to 0.500):	0.41	0.06	4

Readings:
0.360 0.370 0.440 0.480

Vitrinite Reflectance Histogram

Well: NOCS 6407/6-4
Depth: 1929.00(m)



Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.300 to 0.550):	0.45	0.05	9

Readings:
0.360 0.380 0.440 0.450 0.460 0.470 0.480 0.500 0.520