

Zone D (3650-4088± metres) consists of shales, which are interbedded with sands below 3857± metres. The shales, generally medium-dark grey or dark olive grey in colour, have good (1.90-2.96%) organic carbon contents. Somewhat richer (1.06-3.99% organic carbon) shales containing a mixed assemblage of algal, inertinitic and woody kerogen are present in the lowermost 40± metres. With this exception the organic matter is almost entirely composed of poor quality amorphous material. The level of maturity achieved within this Zone is somewhat uncertain (the organic matter is poorly preserved) but, on balance, the evidence suggests that significant hydrocarbon generation is not occurring on-structure. Despite the 'good' organic carbon values wide variations in hydrocarbon potential are apparent. Very good shales occur at 3650-3659± metres, good shales at 3812-3830± metres and below 4000± metres but, apart from scattered fair interbeds Zone D is generally poor.

Shows of wet gas/condensate were detected at 3335-3434± metres, with further scattered traces between 3200± metres and 3650± metres. Good shows of dry to moderately wet gas are present in Zone D and are particularly good at 3677-3731± metres and at 3821-3965± metres. A medium gravity crude oil has diffused into the shales/sandstones at 3353-3434± metres and at 3416-3425± metres.

Although the Zone D shales have a potential for gas/condensate, and have doubtless generated a small fraction of the hydrocarbons detected in this zone, their marginal maturity will limit generation on-structure to minor volumes. The source of the gas condensate shows in Zones C and D is, therefore, believed to be the more deeply buried equivalents of the Zone D shales. The presence of a medium gravity crude oil at 3353± metres and at 3416± metres, however, suggests not only mature source rocks but also a more oil prone type of organic matter. This type of organic matter is sparse in the analysed sediments, indicating a possible facies change to a more oil prone type of kerogen off-structure.

TABLE 1A  
 CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN AIR SPACE GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-001	890-910	700	4	3	0	0	707	7	1.0	0	0.00
553-002	910-930	778	1	1	0	0	780	2	0.3	0	0.00
553-003	930-950	1362	5	0	0	0	1367	5	0.4	0	0.00
553-004	950-970	366	0	0	0	0	366	0	0.0	0	0.00
553-005	970-990	399	0	0	0	0	399	0	0.0	0	0.00
553-006	990-1010	353	0	0	0	0	353	0	0.0	0	0.00
553-007	1010-1030	352	0	0	0	0	352	0	0.0	0	0.00
553-008	1030-1050	304	0	0	0	0	304	0	0.0	0	0.00
553-009	1050-1070	740	11	0	0	0	752	11	1.5	0	0.00
553-010	1070-1090	1202	6	0	0	0	1208	6	0.5	0	0.00
553-011	1090-1110	862	7	0	0	0	868	7	0.8	0	0.00
553-012	1100-1130	592	0	0	0	0	592	0	0.0	0	0.00
553-013	1130-1150	167	0	0	0	0	167	0	0.0	0	0.00
553-014	1150-1170	904	0	0	0	0	904	0	0.0	0	0.00
553-015	1170-1190	392	7	2	0	0	402	10	2.4	0	0.00
553-016	1190-1210	288	1	2	0	0	291	3	1.2	0	0.00
553-017	1210-1230	111	1	1	0	0	114	2	1.9	0	0.00
553-018	1230-1250	95	2	2	0	1	100	5	4.6	0	0.77
553-019	1250-1270	188	4	4	0	0	196	8	4.2	0	0.00
553-020	1270-1290	45	2	0	0	0	47	2	3.4	0	0.00
553-021	1290-1310	63	0	0	0	0	63	0	0.0	0	0.00
553-023	1330-1350	46	0	0	0	0	46	0	0.0	0	0.00
553-025	1370-1390	33	0	0	0	0	33	0	0.0	0	0.00
553-027	1410-1430	94	0	0	0	0	94	0	0.0	0	0.00
553-029	1450-1470	27	0	0	0	0	27	0	0.0	0	0.00
553-031	1490-1510	29	0	0	0	0	29	0	0.0	0	0.00
553-033	1530-1550	223	0	0	0	0	223	0	0.0	0	0.00
553-035	1570-1590	54	0	0	0	0	54	0	0.0	0	0.00
553-037	1610-1630	186	0	0	0	0	186	0	0.0	0	0.00
553-039	1650-1670	891	0	0	0	0	891	0	0.0	0	0.00

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 CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN AIR SPACE GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-041	1690-1710	344	0	0	0	0	344	0	0.0	0	0.00
553-043	1730-1750	382	11	7	1	2	403	21	5.2	0	0.77
553-045	1770-1790	239	7	8	3	4	261	22	8.4	0	0.77
553-047	1810-1830	151	4	5	1	1	161	10	6.5	0	0.77
553-049	1850-1870	281	6	3	8	10	309	28	9.0	0	0.77
553-051	1890-1910	249	5	7	3	3	267	18	6.6	0	0.77
553-053	1930-1950	345	0	0	0	0	345	0	0.0	0	0.00
553-055	1970-1990	333	44	13	0	0	390	58	14.8	0	0.00
553-057	2010-2030	233	25	0	0	0	258	25	9.6	0	0.00
553-059	2050-2070	243	52	16	0	0	311	68	21.7	0	0.00
553-061	2090-2110	253	29	17	9	12	319	67	20.9	0	0.77
553-063	2130-2150	227	40	24	9	12	313	86	27.5	0	0.77
553-065	2170-2190	236	14	17	6	8	281	46	16.2	0	0.77
553-067	2210-2230	222	9	11	8	5	256	34	13.3	0	1.54
553-069	2250-2270	331	25	45	12	15	428	97	22.7	0	0.77
553-071	2290-2310	391	65	19	7	8	489	98	20.1	0	0.85
553-073	2330-2350	348	29	17	12	28	433	86	19.7	0	0.42
553-074	2350-2370	273	27	16	6	7	328	55	16.9	0	0.85
553-075	2370-2390	70	5	3	6	5	89	19	21.2	0	1.27
553-076	2390-2410	751	30	36	24	14	855	104	12.2	0	1.69
553-077	2410-2430	828	38	27	13	6	913	85	9.3	0	2.12
553-078	2430-2450	424	19	16	12	7	478	54	11.3	0	1.69
553-079	2450-2470	277	14	16	6	3	317	39	12.4	0	1.69
553-080	2470-2490	516	27	38	22	4	608	93	15.2	0	5.08
553-081	2490-2510	503	28	23	6	5	564	61	10.8	0	1.27
553-082	2510-2530	171	11	11	6	1	200	29	14.6	0	5.08
553-083	2530-2550	298	20	30	28	10	386	87	22.6	0	2.96
553-084	2550-2570	249	16	26	20	5	316	67	21.2	0	3.81
553-085	2570-2590	380	35	71	44	23	553	172	31.2	0	1.90
553-086	2590-2610	158	31	42	30	15	276	118	42.6	0	2.05

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 CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN AIR SPACE GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-087	2610-2630	500	46	54	30	22	652	152	23.3	0	1.33
553-088	2630-2650	416	35	60	29	17	557	141	25.4	0	1.69
553-089	2650-2670	409	25	61	52	68	614	206	33.5	0	0.77
553-090	2670-2690	334	25	36	25	24	443	109	24.7	419	1.04
553-091	2690-2710	466	47	66	46	48	674	208	30.8	326	0.98
553-092	2710-2730	294	34	54	38	21	440	146	33.2	1556	1.80
553-093	2730-2750	343	64	70	35	58	571	228	39.9	305	0.61
553-094	2750-2770	349	65	52	22	3	490	142	28.9	322	6.41
553-095	2770-2790	294	48	34	13	28	415	121	29.2	258	0.46
553-096	2790-2810	356	61	37	10	3	467	111	23.8	362	3.20
553-097	2810-2830	537	68	57	8	10	680	143	21.0	0	0.80
553-098	2830-2850	531	88	67	21	34	741	209	28.3	0	0.62
553-099	2850-2870	624	105	63	39	47	877	254	28.9	0	0.84
553-100	2870-2890	424	67	46	7	9	552	129	23.3	0	0.80
553-101	2890-2910	295	38	32	23	18	407	112	27.5	0	1.28
553-102	2910-2930	596	91	72	45	26	830	234	28.2	0	1.70
553-103	2930-2950	627	106	82	54	32	901	274	30.4	0	1.69
553-104	2950-2970	454	67	45	13	8	586	132	22.5	0	1.60
553-105	2970-2990	538	81	58	15	8	700	162	23.1	0	2.00
553-106	2990-3000	867	137	113	39	16	1172	306	26.1	0	2.40
553-107	3000-3010	651	67	24	10	6	759	108	14.2	0	1.60
553-108	3010-3020	737	107	64	16	10	935	198	21.2	0	1.60
553-109	3020-3030	741	76	53	29	24	922	181	19.7	0	1.20
553-110	3030-3040	744	79	63	40	50	976	231	23.7	0	0.80
553-111	3040-3050	572	67	57	31	32	758	186	24.6	0	0.96
553-112	3050-3060	896	117	94	25	18	1150	254	22.1	0	1.34
553-113	3060-3070	880	93	75	23	63	1135	255	22.5	0	0.37
553-114	3070-3080	975	110	92	41	83	1300	326	25.1	0	0.50
553-115	3080-3090	1322	101	106	19	47	1595	273	17.1	0	0.40
553-116	3090-3100	924	117	128	64	75	1308	384	29.4	0	0.85
553-117	3100-3110	1138	145	153	62	26	1523	385	25.3	0	2.40

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553-118	3110-3120	1281	193	150	34	11	1668	387	23.2	393	3.20
553-119	3120-3130	1018	139	129	24	30	1341	323	24.1	0	0.80
553-120	3130-3140	723	106	88	35	31	983	260	26.4	0	1.12
553-121	3140-3150	728	103	93	49	61	1033	305	29.5	0	0.80
553-122	3150-3160	685	85	85	21	20	896	211	23.5	0	1.07
553-123	3160-3170	834	118	142	44	14	1152	318	27.6	0	3.20
553-124	3170-3180	725	93	97	22	22	959	234	24.4	0	1.00
553-125	3180-3190	847	121	126	29	31	1154	307	26.6	0	0.93
553-126	3190-3200	1682	198	317	68	30	2297	614	26.7	0	2.24
553-127	3200-3209	1149	355	259	53	35	1850	702	37.9	166	1.50
553-128	3209-3218	1209	519	316	45	27	2116	907	42.9	156	1.68
553-129	3218-3227	756	541	462	61	48	1868	1111	59.5	138	1.27
553-130	3227-3236	978	629	494	59	42	2202	1225	55.6	131	1.40
553-131	3236-3245	727	474	457	67	43	1768	1041	58.9	134	1.57
553-132	3245-3254	849	568	467	60	38	1981	1132	57.2	107	1.58
553-133	3254-3263	1419	542	425	74	60	2520	1101	43.7	132	1.25
553-134	3263-3272	357	206	188	30	18	799	443	55.4	112	1.68
553-135	3272-3281	1384	591	480	68	54	2577	1193	46.3	114	1.25
553-136	3281-3290	523	322	356	52	47	1300	776	59.7	205	1.12
553-137	3290-3299	686	275	515	94	95	1665	978	58.8	314	1.00
553-138	3299-3308	296	138	142	25	23	625	329	52.6	67	1.12
553-139	3308-3317	344	142	198	41	38	762	419	54.9	59	1.07
553-140	3317-3326	184	92	130	27	31	464	280	60.3	56	0.86
553-141	3326-3335	120	57	119	26	39	360	240	66.7	108	0.67
553-142	3335-3344	590	272	370	86	144	1462	873	59.7	716	0.60
553-143	3344-3353	353	143	233	59	102	890	537	60.3	469	0.58
553-144	3353-3362	565	328	693	229	411	2227	1662	74.6	2743	0.56
553-145	3362-3371	578	373	491	62	208	1712	1134	66.2	1335	0.30
553-146	3371-3380	522	345	530	116	221	1734	1212	69.9	247	0.52

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553-147	3380-3389	258	177	532	158	350	1476	1218	82.5	2858	0.45
553-148	3389-3398	576	382	945	240	487	2629	2053	78.1	2055	0.49
553-149	3398-3407	169	44	77	17	27	334	164	49.3	445	0.62
553-150	3407-3416	874	280	537	105	245	2041	1168	57.2	920	0.43
553-151	3416-3425	6841	4161	3369	838	1741	16950	10109	59.6	4014	0.48
553-152	3425-3434	2942	1700	1751	269	532	7195	4253	59.1	660	0.51
553-153	3434-3443	45	42	60	11	50	208	163	78.2	364	0.23
553-154	3443-3452	3082	1322	921	110	300	5735	2653	46.3	1039	0.37
553-155	3452-3461	842	309	402	53	142	1748	905	51.8	3689	0.37
553-156	3461-3470	455	116	133	17	128	849	393	46.3	474	0.13
553-157	3470-3479	197	155	297	37	121	807	610	75.6	780	0.31
553-158	3479-3488	628	181	188	17	30	1044	416	39.8	2338	0.56
553-159	3488-3497	1056	240	156	14	29	1495	439	29.4	435	0.47
553-160	3497-3506	2546	371	396	42	99	3454	908	26.3	1320	0.43
553-161	3506-3515	200	378	368	38	76	1060	860	81.1	634	0.50
553-162	3515-3524	1001	714	404	35	89	2243	1242	55.4	985	0.39
553-163	3524-3533	304	2069	351	29	91	2843	2540	89.3	1306	0.32
553-164	3533-3542	1245	946	744	56	157	3148	1903	60.5	194	0.36
553-165	3542-3551	2924	1863	1245	94	204	6332	3407	53.8	494	0.46
553-166	3551-3560	1876	1410	613	28	35	3962	2086	52.7	297	0.81
553-167	3560-3569	1334	1367	423	10	14	3147	1814	57.6	408	0.71
553-168	3569-3578	636	504	243	12	10	1405	769	54.8	35	1.18
553-169	3578-3587	983	674	380	34	24	2095	1112	53.1	246	1.42
553-170	3587-3596	5864	3516	1522	107	107	11117	5252	47.2	713	1.00
553-171	3596-3605	2465	1562	597	47	50	4721	2256	47.8	420	0.95
553-172	3605-3614	4268	1923	560	52	33	6836	2568	37.6	314	1.56
553-173	3614-3623	458	1213	632	47	55	2405	1947	81.0	471	0.85
553-174	3623-3632	3878	2134	868	76	83	7038	3160	44.9	511	0.91
553-175	3632-3641	868	609	308	29	29	1843	975	52.9	314	1.00

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553-176	3641-3650	1426	487	253	25	28	2218	792	35.7	98	0.89
553-177	3650-3659	3826	803	1160	253	704	6747	2921	43.3	834	0.36
553-178	3659-3668	2413	714	1049	226	610	5013	2600	51.9	1511	0.37
553-179	3668-3677	2124	631	819	144	491	4209	2085	49.5	1173	0.29
553-180	3677-3686	8982	2310	2180	280	1025	14776	5795	39.2	3778	0.27
553-181	3686-3695	8521	1878	2283	233	1121	14035	5515	39.3	6319	0.21
553-182	3695-3704	5054	1599	1933	260	1007	9853	4799	48.7	3925	0.26
553-183	3704-3713	4781	1196	1399	199	775	8351	3569	42.7	2843	0.26
553-184	3713-3722	4079	411	823	143	1453	6909	2830	41.0	3554	0.10
553-185	3722-3731	4189	1104	1568	226	876	7963	3774	47.4	4997	0.26
553-186	3731-3740	2895	961	1249	191	680	5977	3081	51.6	2193	0.28
553-187	3740-3749	3356	950	1470	309	1247	7330	3975	54.2	4774	0.25
553-188	3749-3758	3084	839	849	224	837	5833	2750	47.1	3459	0.27
553-189	3758-3767	1690	438	534	121	376	3160	1470	46.5	1334	0.32
553-190	3767-3776	2094	375	403	71	248	3192	1098	34.4	932	0.29
553-191	3776-3785	2228	599	803	161	573	4363	2136	48.9	2369	0.28
553-192	3785-3794	1342	416	436	87	306	2587	1245	48.1	1063	0.29
553-193	3794-3803	2496	643	1083	156	606	4983	2487	49.9	1669	0.26
553-194	3803-3812	1136	505	2890	671	2261	7462	6326	84.8	3417	0.30
553-195	3812-3821	1803	769	2521	393	1440	6926	5123	74.0	2570	0.27
553-196	3821-3830	7755	2212	2288	338	1241	13834	6079	43.9	3310	0.27
553-197	3830-3839	10329	3318	3350	475	1839	19311	8982	46.5	4466	0.26
553-198	3839-3848	14061	4017	3109	489	1628	23303	9242	39.7	3100	0.30
553-199	3848-3857	12285	3315	2491	376	1474	19942	7657	38.4	2824	0.26
553-200	3857-3866	13841	4054	3629	746	2300	24572	10730	43.7	4719	0.32
553-201	3866-3875	8508	2336	2044	313	1323	14524	6016	41.4	3447	0.24
553-202	3875-3884	11334	1420	1145	165	732	14796	3462	23.4	1630	0.23
553-203	3884-3893	22618	2002	1508	115	680	26923	4305	16.0	2871	0.17
553-204	3893-3902	14310	1833	1329	173	805	18450	4140	22.4	1370	0.21
553-205	3902-3911	11454	2439	2722	395	1504	18515	7061	38.1	1939	0.26

TABLE 1A  
 CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN AIR SPACE GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-206	3911-3920	6124	1158	771	102	373	8528	2404	28.2	772	0.27
553-207	3920-3929	4984	1201	951	95	445	7676	2692	35.1	1849	0.21
553-208	3929-3938	6022	3476	3782	513	2978	16770	10749	64.1	7374	0.17
553-209	3938-3947	5396	2660	2119	130	1434	11740	6344	54.0	4215	0.09
553-210	3947-3956	4285	2070	1715	196	1050	9316	5032	54.0	2327	0.19
553-211	3956-3965	5363	2685	2191	210	1546	11995	6632	55.3	3770	0.14
553-212	3965-3974	3411	1530	1236	113	794	7084	3673	51.9	1991	0.14
553-213	3974-3983	3009	1192	1324	126	525	6176	3167	51.3	2520	0.24
553-214	3983-3992	3903	1671	2090	107	723	8494	4591	54.1	3072	0.15
553-215	3992-4001	1962	625	900	59	202	3748	1786	47.6	1453	0.29
553-216	4001-4010	6009	1818	2130	215	814	10985	4976	45.3	930	0.26
553-217	4010-4019	3015	1551	2627	294	1133	8620	5605	65.0	1225	0.26
553-218	4019-4028	8350	3061	3982	414	1543	17349	8999	51.9	2298	0.27
553-219	4028-4037	6818	2718	4755	530	2125	16946	10128	59.8	4645	0.25
553-220	4037-4046	10296	3773	5404	563	2211	22247	11951	53.7	1835	0.25
553-221	4046-4055	6819	1802	1903	175	653	11354	4535	39.9	667	0.27
553-222	4055-4064	3865	1403	1825	89	573	7754	3889	50.2	1453	0.15
553-223	4064-4073	3310	1541	2921	183	1152	9107	5797	63.7	1330	0.16
553-224	4073-4082	1956	1022	1731	167	661	5536	3580	64.7	1460	0.25
553-225	4082-4088	728	397	1125	90	438	2777	2049	73.8	2190	0.21



TABLE 1B  
 CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN CUTTINGS GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	iC <sub>4</sub> nC <sub>4</sub>
553-001	890-910	639	24	14	4	10	690	51	7.4	0	0.38
553-002	910-930	327	8	0	0	0	335	8	2.4	0	0.00
553-003	930-950	297	8	0	0	0	305	8	2.6	0	0.00
553-004	950-970	327	0	0	0	0	327	0	0.0	0	0.00
553-005	970-990	253	0	0	0	0	253	0	0.0	0	0.00
553-006	990-1010	238	0	0	0	0	238	0	0.0	0	0.00
553-007	1010-1030	208	0	0	0	0	208	0	0.0	0	0.00
553-008	1030-1050	401	0	0	0	0	401	0	0.0	0	0.00
553-009	1050-1070	208	0	0	0	0	208	0	0.0	0	0.00
553-010	1070-1090	119	0	0	0	0	119	0	0.0	0	0.00
553-011	1090-1110	89	0	0	0	0	89	0	0.0	0	0.00
553-012	1100-1130	104	0	0	0	0	104	0	0.0	0	0.00
553-013	1130-1150	163	0	0	0	0	163	0	0.0	0	0.00
553-014	1150-1170	134	0	0	0	0	134	0	0.0	0	0.00
553-015	1170-1190	45	0	0	0	0	45	0	0.0	0	0.00
553-016	1190-1210	74	0	0	0	0	74	0	0.0	0	0.00
553-017	1210-1230	45	0	0	0	0	45	0	0.0	0	0.00
553-018	1230-1250	59	8	0	0	0	67	8	11.8	0	0.00
553-019	1250-1270	30	0	0	0	0	30	0	0.0	0	0.00
553-020	1270-1290	45	0	0	0	0	45	0	0.0	0	0.00
553-021	1290-1310	30	8	0	0	0	38	8	21.1	0	0.00
553-023	1330-1350	45	0	0	0	0	45	0	0.0	0	0.00
553-025	1370-1390	30	0	0	0	0	30	0	0.0	0	0.00
553-027	1410-1430	15	0	0	0	0	15	0	0.0	0	0.00
553-029	1450-1470	30	0	0	0	0	30	0	0.0	0	0.00
553-031	1490-1510	30	0	0	0	0	30	0	0.0	0	0.00
553-033	1530-1550	15	0	0	0	0	15	0	0.0	0	0.00
553-035	1570-1590	15	0	0	0	0	15	0	0.0	0	0.00
553-037	1610-1630	30	0	0	0	0	30	0	0.0	0	0.00
553-039	1650-1670	15	0	0	0	0	15	0	0.0	0	0.00

TABLE 1B  
CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN CUTTINGS GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-041	1690-1710	30	0	0	0	0	30	0	0.0	0	0.00
553-043	1730-1750	30	0	0	0	0	30	0	0.0	0	0.00
553-045	1770-1790	15	0	0	0	0	15	0	0.0	0	0.00
553-047	1810-1830	15	0	0	0	0	15	0	0.0	0	0.00
553-049	1850-1870	15	0	0	0	0	15	0	0.0	0	0.00
553-051	1890-1910	15	0	19	2	2	38	23	61.0	0	0.77
553-053	1930-1950	30	0	0	0	0	30	0	0.0	0	0.00
553-055	1970-1990	15	0	0	0	0	15	0	0.0	0	0.00
553-057	2010-2030	15	0	0	0	0	15	0	0.0	0	0.00
553-059	2050-2070	15	0	0	0	0	15	0	0.0	0	0.00
553-061	2090-2110	15	8	5	4	5	36	21	58.7	0	0.77
553-063	2130-2150	15	8	0	2	2	27	12	45.0	0	0.77
553-065	2170-2190	74	8	5	4	5	95	21	22.1	0	0.77
553-067	2210-2230	30	8	14	4	5	60	31	50.8	0	0.77
553-069	2250-2270	30	8	5	0	0	42	13	29.9	0	0.00
553-071	2290-2310	21	0	0	0	0	21	0	0.0	0	0.00
553-073	2330-2350	83	10	0	0	0	93	10	11.0	0	0.00
553-074	2350-2370	21	10	6	0	0	37	16	44.2	0	0.00
553-075	2370-2390	42	10	0	0	0	52	10	19.8	0	0.00
553-076	2390-2410	21	21	25	2	3	71	50	70.6	0	0.85
553-077	2410-2430	62	10	12	8	5	99	36	36.7	0	1.69
553-078	2430-2450	62	10	12	21	20	126	64	50.6	0	1.06
553-079	2450-2470	21	5	6	0	0	32	11	35.3	0	0.00
553-080	2470-2490	42	5	12	21	5	85	44	51.2	0	4.23
553-081	2490-2510	62	10	31	8	5	117	55	46.7	0	1.69
553-082	2510-2530	62	10	25	2	3	102	40	38.8	0	0.85
553-083	2530-2550	42	10	12	4	5	73	32	43.4	0	0.85
553-084	2550-2570	42	21	12	17	5	96	55	56.9	0	3.38
553-085	2570-2590	42	10	25	8	5	90	48	53.8	0	1.69
553-086	2590-2610	62	10	43	13	15	144	81	56.6	0	0.85

TABLE 1B  
 CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN CUTTINGS GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	iC <sub>4</sub> nC <sub>4</sub>
553-087	2610-2630	166	10	68	21	10	276	109	39.7	0	2.12
553-088	2630-2650	62	10	37	17	15	142	79	56.0	0	1.13
553-089	2650-2670	62	93	43	8	5	212	149	70.5	0	1.69
553-090	2670-2690	52	9	15	19	16	112	60	53.4	746	1.20
553-091	2690-2710	69	9	21	36	32	166	97	58.3	899	1.10
553-092	2710-2730	35	4	5	10	4	58	23	40.1	606	2.40
553-093	2730-2750	104	9	10	6	8	137	33	24.3	451	0.80
553-094	2750-2770	121	4	5	2	2	134	13	9.7	548	0.80
553-095	2770-2790	156	9	10	6	4	185	29	15.9	0	1.60
553-096	2790-2810	381	34	15	6	4	442	60	13.7	75	1.60
553-097	2810-2830	208	26	41	3	4	282	74	26.3	0	0.80
553-098	2830-2850	520	60	26	6	8	620	100	16.2	0	0.80
553-099	2850-2870	589	60	31	6	28	715	126	17.6	0	0.23
553-100	2870-2890	451	26	10	6	4	497	47	9.4	0	1.60
553-101	2890-2910	260	9	21	2	2	293	33	11.2	0	0.80
553-102	2910-2930	659	43	62	10	4	777	118	15.2	0	2.40
553-103	2930-2950	347	34	31	10	20	442	95	21.5	0	0.48
553-104	2950-2970	295	26	10	3	4	338	43	12.8	0	0.80
553-105	2970-2990	277	34	21	16	12	361	83	23.1	0	1.34
553-106	2990-3000	416	43	15	6	4	485	69	14.2	0	1.60
553-107	3000-3010	537	34	10	2	2	586	48	8.2	0	0.80
553-108	3010-3020	832	60	10	2	2	906	74	8.2	0	0.80
553-109	3020-3030	711	34	5	19	28	798	87	10.9	0	0.69
553-110	3030-3040	971	43	10	2	2	1028	57	5.5	0	0.80
553-111	3040-3050	901	51	15	2	2	972	71	7.3	0	0.80
553-112	3050-3060	1560	77	41	2	2	1682	122	7.3	0	0.80
553-113	3060-3070	3120	69	15	16	16	3236	116	3.6	0	1.00
553-114	3070-3080	2964	77	15	26	40	3123	159	5.1	0	0.64
553-115	3080-3090	5061	112	15	16	36	5241	180	3.4	0	0.45
553-116	3090-3100	1820	51	21	16	16	1924	104	5.4	0	1.00
553-117	3100-3110	1421	60	21	6	12	1521	99	6.5	0	0.53

TABLE 1B  
CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN CUTTINGS GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	iC <sub>4</sub> nC <sub>4</sub>
553-118	3110-3120	1681	146	57	3	12	1899	218	11.5	75	0.27
553-119	3120-3130	676	51	36	6	8	778	102	13.1	0	0.80
553-120	3130-3140	416	34	15	16	16	498	82	16.5	0	1.00
553-121	3140-3150	555	51	21	3	4	634	79	12.5	0	0.80
553-122	3150-3160	381	34	15	6	8	446	64	14.4	0	0.80
553-123	3160-3170	537	34	15	6	8	602	64	10.7	0	0.80
553-124	3170-3180	381	17	21	13	12	444	63	14.1	0	1.07
553-125	3180-3190	728	60	26	6	8	828	100	12.1	0	0.80
553-126	3190-3200	1082	80	48	20	26	1256	174	13.9	0	0.75
553-127	3200-3209	1186	137	130	27	16	1497	311	20.8	100	1.75
553-128	3209-3218	333	172	227	35	32	798	465	58.3	320	1.12
553-129	3218-3227	187	126	199	20	21	553	366	66.1	97	0.94
553-130	3227-3236	146	103	151	20	11	430	284	66.1	155	1.87
553-131	3236-3245	104	69	96	16	11	295	191	64.7	118	1.50
553-132	3245-3254	83	80	110	16	11	299	216	72.2	136	1.50
553-133	3254-3263	166	149	172	27	16	530	364	68.6	115	1.75
553-134	3263-3272	83	57	117	27	21	306	222	72.8	155	1.31
553-135	3272-3281	146	126	220	27	32	550	405	73.5	113	0.87
553-136	3281-3290	62	34	76	16	11	198	136	68.6	110	1.50
553-137	3290-3299	62	11	48	12	11	144	82	56.7	126	1.12
553-138	3299-3308	125	57	96	20	16	314	189	60.2	162	1.25
553-139	3308-3317	62	23	55	8	5	153	91	59.3	47	1.50
553-140	3317-3326	62	23	62	12	16	175	112	64.3	94	0.75
553-141	3326-3335	62	23	76	20	42	222	160	72.0	155	0.47
553-142	3335-3344	125	46	124	35	79	408	283	69.4	354	0.45
553-143	3344-3353	187	46	89	24	105	451	264	58.5	1207	0.22
553-144	3353-3362	187	92	282	173	562	1295	1108	85.5	6933	0.31
553-145	3362-3371	104	286	82	82	63	618	514	83.2	550	1.31
553-146	3371-3380	104	126	439	106	368	1143	1039	90.9	1359	0.29

TABLE 1B  
CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN CUTTINGS GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-147	3380-3389	83	11	62	16	74	246	162	66.1	1922	0.21
553-148	3389-3398	146	80	343	130	347	1045	900	86.1	2509	0.37
553-149	3398-3407	104	11	48	16	32	211	107	50.6	691	0.50
553-150	3407-3416	603	69	76	20	53	820	216	26.4	673	0.37
553-151	3416-3425	229	160	549	204	693	1836	1607	87.5	7410	0.29
553-152	3425-3434	229	149	391	67	263	1098	869	79.2	1718	0.25
553-153	3434-3443	229	149	309	43	137	866	637	73.6	1150	0.32
553-154	3443-3452	146	114	220	27	89	597	451	75.6	1147	0.31
553-155	3452-3461	104	46	7	16	16	188	84	44.7	938	1.00
553-156	3461-3470	83	11	34	8	21	158	75	47.3	1401	0.37
553-157	3470-3479	125	23	41	8	21	218	93	42.7	0	0.37
553-158	3479-3488	104	23	34	20	105	286	182	63.6	0	0.19
553-159	3488-3497	146	69	96	16	77	403	258	63.9	364	0.20
553-160	3497-3506	166	11	34	8	20	240	74	30.8	904	0.38
553-161	3506-3515	146	69	144	20	66	444	299	67.2	767	0.30
553-162	3515-3524	125	103	124	35	105	492	367	74.6	778	0.34
553-163	3524-3533	83	103	55	8	28	277	193	69.9	388	0.28
553-164	3533-3542	83	34	69	8	22	216	133	61.5	186	0.36
553-165	3542-3551	104	80	103	16	28	330	226	68.5	440	0.57
553-166	3551-3560	125	172	124	12	17	448	324	72.2	21	0.71
553-167	3560-3569	146	240	144	4	61	595	449	75.5	296	0.06
553-168	3569-3578	229	252	206	20	17	723	494	68.3	367	1.18
553-169	3578-3587	166	172	144	20	11	513	347	67.6	469	1.78
553-170	3587-3596	270	641	426	47	50	1434	1164	81.1	534	0.95
553-171	3596-3605	146	263	179	16	22	625	480	76.7	312	0.71
553-172	3605-3614	312	675	371	55	39	1452	1140	78.5	432	1.42
553-173	3614-3623	125	584	446	67	55	1277	1152	90.2	194	1.21
553-174	3623-3632	208	893	597	55	83	1836	1628	88.7	369	0.66
553-175	3632-3641	354	183	199	31	33	800	447	55.8	367	0.95

TABLE 1B  
CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN CUTTINGS GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-176	3641-3650	520	435	398	82	88	1524	1004	65.9	89	0.93
553-177	3650-3659	1206	469	1119	436	873	4104	2898	70.6	581	0.50
553-178	3659-3668	1269	481	1195	322	1221	4488	3219	71.7	1276	0.26
553-179	3668-3677	2558	572	1270	283	1266	5949	3391	57.0	3413	0.22
553-180	3677-3686	4077	675	838	189	757	6535	2459	37.6	3992	0.25
553-181	3686-3695	8611	950	1641	381	1547	13131	4519	34.4	5752	0.25
553-182	3695-3704	5450	1156	1744	354	1481	10184	4735	46.5	6697	0.24
553-183	3704-3713	5075	1316	2156	542	2360	11449	6374	55.7	7268	0.23
553-184	3713-3722	8237	1535	2274	302	1900	14248	6011	42.2	4914	0.16
553-185	3722-3731	5200	649	593	141	630	7214	2014	27.9	3866	0.22
553-186	3731-3740	6074	989	1446	440	1500	10449	4375	41.9	3984	0.29
553-187	3740-3749	8382	803	742	224	1150	11301	2919	25.8	6663	0.19
553-188	3749-3758	4576	505	797	200	1040	7118	2542	35.7	4856	0.19
553-189	3758-3767	3640	1092	2002	680	2795	10209	6569	64.3	7281	0.24
553-190	3767-3776	6157	958	1180	334	1345	9974	3817	38.3	5152	0.25
553-191	3776-3785	3058	402	396	118	975	4948	1890	38.2	3188	0.12
553-192	3785-3794	3827	886	989	267	1165	7134	3307	46.4	5196	0.23
553-193	3794-3803	2371	443	655	581	295	4346	1974	45.4	2200	1.97
553-194	3803-3812	229	62	556	177	1040	2064	1835	88.9	2106	0.17
553-195	3812-3821	1331	360	1916	456	2630	6693	5362	80.1	4178	0.17
553-196	3821-3830	8528	1699	1792	409	1620	14048	5520	39.3	2611	0.25
553-197	3830-3839	10670	1864	1298	200	1100	15133	4462	29.5	1414	0.18
553-198	3839-3848	13312	2894	2157	397	1710	20470	7158	35.0	3685	0.23
553-199	3848-3857	16640	3842	2225	354	1910	24970	8330	33.4	2960	0.19
553-200	3857-3866	13021	2400	1415	208	1405	18449	5428	29.4	2800	0.15
553-201	3866-3875	12376	1782	853	79	800	15889	3513	22.1	2459	0.10
553-202	3875-3884	18720	1133	488	401	400	21142	2422	11.5	1799	1.00
553-203	3884-3893	22131	1174	519	90	500	24415	2284	9.4	1611	0.18
553-204	3893-3902	19178	1535	1106	200	835	22854	3676	16.1	1097	0.24
553-205	3902-3911	19011	1833	2027	354	1645	24870	5859	23.6	1815	0.21

TABLE 1B  
 CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS IN CUTTINGS GAS

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-206	3911-3920	16515	1875	1310	189	705	20594	4078	19.8	634	0.27
553-207	3920-3929	11294	1081	550	63	325	13314	2019	15.2	1050	0.19
553-208	3929-3938	13250	3904	2874	448	3050	23525	10275	43.7	6700	0.15
553-209	3938-3947	12792	3553	1730	157	1235	19468	6676	34.3	4358	0.13
553-210	3947-3956	18304	7385	4981	467	5000	36138	17834	49.3	8662	0.09
553-211	3956-3965	13707	4738	2806	255	2500	24006	10299	42.9	6372	0.10
553-212	3965-3974	6843	2070	1384	118	1100	11516	4672	40.6	3229	0.11
553-213	3974-3983	10005	1617	1428	157	840	14047	4042	28.8	1310	0.19
553-214	3983-3992	15226	2596	1483	154	965	20423	5198	25.5	1068	0.16
553-215	3992-4001	12501	1226	340	37	215	14318	1817	12.7	677	0.17
553-216	4001-4010	17264	1823	1217	139	745	21189	3925	18.5	655	0.19
553-217	4010-4019	8486	824	1094	106	715	11226	2739	24.4	780	0.15
553-218	4019-4028	7093	711	983	147	700	9633	2540	26.4	716	0.21
553-219	4028-4037	6365	268	396	55	345	7428	1063	14.3	616	0.16
553-220	4037-4046	9006	422	494	77	435	10435	1429	13.7	535	0.18
553-221	4046-4055	4202	525	1088	183	815	6813	2611	38.3	836	0.22
553-222	4055-4064	2579	309	927	143	735	4693	2114	45.0	741	0.19
553-223	4064-4073	3682	196	383	51	370	4682	1000	21.4	768	0.14
553-224	4073-4082	1893	196	612	88	485	3273	1381	42.2	1533	0.18
553-225	4082-4088	541	21	62	15	80	718	177	24.7	423	0.18

TABLE 1C  
TOTAL CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS (1A + 1B)

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propene	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-001	890-910	1339	28	18	4	10	1397	59	4.2	0	0.38
553-002	910-930	1105	9	1	0	0	1115	10	0.9	0	0.00
553-003	930-950	1659	13	0	0	0	1672	13	0.8	0	0.00
553-004	950-970	693	0	0	0	0	693	0	0.0	0	0.00
553-005	970-990	651	0	0	0	0	651	0	0.0	0	0.00
553-006	990-1010	591	0	0	0	0	591	0	0.0	0	0.00
553-007	1010-1030	560	0	0	0	0	560	0	0.0	0	0.00
553-008	1030-1050	705	0	0	0	0	705	0	0.0	0	0.00
553-009	1050-1070	948	11	0	0	0	960	11	1.2	0	0.00
553-010	1070-1090	1321	6	0	0	0	1327	6	0.5	0	0.00
553-011	1090-1110	951	7	0	0	0	957	7	0.7	0	0.00
553-012	1100-1130	696	0	0	0	0	696	0	0.0	0	0.00
553-013	1130-1150	330	0	0	0	0	330	0	0.0	0	0.00
553-014	1150-1170	1038	0	0	0	0	1038	0	0.0	0	0.00
553-015	1170-1190	437	7	2	0	0	447	10	2.1	0	0.00
553-016	1190-1210	362	1	2	0	0	366	3	0.9	0	0.00
553-017	1210-1230	156	1	1	0	0	158	2	1.4	0	0.00
553-018	1230-1250	154	10	2	0	1	167	13	7.5	0	0.77
553-019	1250-1270	218	4	4	0	0	226	8	3.6	0	0.00
553-020	1270-1290	90	2	0	0	0	92	2	1.8	0	0.00
553-021	1290-1310	93	8	0	0	0	101	8	7.9	0	0.00
553-023	1330-1350	91	0	0	0	0	91	0	0.0	0	0.00
553-025	1370-1390	63	0	0	0	0	63	0	0.0	0	0.00
553-027	1410-1430	109	0	0	0	0	109	0	0.0	0	0.00
553-029	1450-1470	57	0	0	0	0	57	0	0.0	0	0.00
553-031	1490-1510	58	0	0	0	0	58	0	0.0	0	0.00
553-033	1530-1550	238	0	0	0	0	238	0	0.0	0	0.00
553-035	1570-1590	69	0	0	0	0	69	0	0.0	0	0.00
553-037	1610-1630	215	0	0	0	0	215	0	0.0	0	0.00
553-039	1650-1670	906	0	0	0	0	906	0	0.0	0	0.00



TABLE 1C  
TOTAL CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS (1A + 1B)

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-041	1690-1710	373	0	0	0	0	373	0	0.0	0	0.00
553-043	1730-1750	412	11	7	1	2	433	21	4.9	0	0.77
553-045	1770-1790	254	7	8	3	4	276	22	7.9	0	0.77
553-047	1810-1830	166	4	5	1	1	176	10	5.9	0	0.77
553-049	1850-1870	296	6	3	8	10	323	28	8.5	0	0.77
553-051	1890-1910	264	5	26	4	6	305	41	13.4	0	0.77
553-053	1930-1950	374	0	0	0	0	374	0	0.0	0	0.00
553-055	1970-1990	348	44	13	0	0	405	58	14.2	0	0.00
553-057	2010-2030	248	25	0	0	0	272	25	9.1	0	0.00
553-059	2050-2070	258	52	16	0	0	326	68	20.7	0	0.00
553-061	2090-2110	267	37	22	13	16	355	88	24.7	0	0.77
553-063	2130-2150	242	48	24	11	15	340	98	28.9	0	0.77
553-065	2170-2190	310	22	22	10	13	377	67	17.7	0	0.77
553-067	2210-2230	251	17	25	12	10	316	65	20.4	0	1.18
553-069	2250-2270	361	33	50	12	15	471	110	23.4	0	0.77
553-071	2290-2310	412	65	19	7	8	510	98	19.3	0	0.85
553-073	2330-2350	431	39	17	12	28	527	96	18.2	0	0.42
553-074	2350-2370	294	37	22	6	7	366	72	19.7	0	0.85
553-075	2370-2390	112	15	3	6	5	141	29	20.7	0	1.27
553-076	2390-2410	772	50	60	27	17	926	154	16.7	0	1.57
553-077	2410-2430	891	49	39	22	11	1012	121	11.9	0	1.93
553-078	2430-2450	486	29	28	33	27	604	118	19.5	0	1.23
553-079	2450-2470	298	19	23	6	3	349	51	14.5	0	1.69
553-080	2470-2490	557	33	51	44	9	694	136	19.6	0	4.63
553-081	2490-2510	565	38	53	14	10	681	116	17.0	0	1.49
553-082	2510-2530	233	22	36	8	4	302	69	22.8	0	2.15
553-083	2530-2550	340	30	42	33	15	459	119	25.9	0	2.24
553-084	2550-2570	290	37	38	37	10	412	122	29.5	0	3.60
553-085	2570-2590	422	46	95	52	28	643	221	34.4	0	1.87
553-086	2590-2610	221	41	85	43	30	420	199	47.4	0	1.45

TABLE 1C  
TOTAL CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS (1A + 1B)

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-087	2610-2630	667	57	122	51	32	928	262	28.2	0	1.57
553-088	2630-2650	478	46	97	46	32	699	221	31.6	0	1.43
553-089	2650-2670	471	118	104	60	73	826	355	43.0	0	0.83
553-090	2670-2690	386	34	51	44	40	554	169	30.4	1165	1.11
553-091	2690-2710	536	56	87	82	80	841	305	36.3	1225	1.03
553-092	2710-2730	329	38	59	48	25	498	170	34.0	2162	1.90
553-093	2730-2750	447	73	81	42	66	709	262	36.9	756	0.63
553-094	2750-2770	470	69	57	23	5	625	155	24.8	870	4.31
553-095	2770-2790	450	56	44	19	32	601	151	25.1	258	0.60
553-096	2790-2810	738	95	52	17	7	909	171	18.9	438	2.31
553-097	2810-2830	745	94	99	11	14	962	217	22.6	0	0.80
553-098	2830-2850	1051	148	93	27	42	1361	310	22.8	0	0.66
553-099	2850-2870	1213	165	94	46	75	1592	379	23.8	0	0.61
553-100	2870-2890	874	93	56	14	13	1050	175	16.7	0	1.05
553-101	2890-2910	555	47	53	25	20	700	145	20.7	0	1.23
553-102	2910-2930	1254	134	133	55	30	1607	353	22.0	0	1.80
553-103	2930-2950	974	140	113	64	52	1343	369	27.5	0	1.22
553-104	2950-2970	748	92	55	16	12	924	175	19.0	0	1.33
553-105	2970-2990	816	115	79	31	20	1061	245	23.1	0	1.59
553-106	2990-3000	1283	180	129	45	20	1657	374	22.6	0	2.24
553-107	3000-3010	1188	102	34	12	8	1345	156	11.6	0	1.41
553-108	3010-3020	1569	167	75	18	12	1841	272	14.8	0	1.47
553-109	3020-3030	1451	110	58	48	52	1720	269	15.6	0	0.92
553-110	3030-3040	1715	122	73	41	52	2003	288	14.4	0	0.80
553-111	3040-3050	1473	119	72	32	34	1730	257	14.8	0	0.95
553-112	3050-3060	2456	195	135	26	20	2832	376	13.3	0	1.28
553-113	3060-3070	4000	162	90	40	80	4371	371	8.5	0	0.50
553-114	3070-3080	3939	187	108	67	123	4423	485	11.0	0	0.55
553-115	3080-3090	6383	212	121	35	84	6836	452	6.6	0	0.42
553-116	3090-3100	2744	169	148	80	91	3233	489	15.1	0	0.88
553-117	3100-3110	2559	205	173	68	38	3044	485	15.9	0	1.80

TABLE 1C  
TOTAL CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS (1A + 1B)

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	iC <sub>4</sub> nC <sub>4</sub>
553-118	3110-3120	2963	339	206	37	23	3568	605	17.0	468	1.64
553-119	3120-3130	1694	191	165	31	38	2119	425	20.0	0	0.80
553-120	3130-3140	1139	140	103	51	47	1481	342	23.1	0	1.08
553-121	3140-3150	1283	154	113	52	65	1667	384	23.0	0	0.80
553-122	3150-3160	1067	119	100	28	28	1342	275	20.5	0	0.99
553-123	3160-3170	1371	152	157	51	22	1754	382	21.8	0	2.32
553-124	3170-3180	1107	110	118	35	34	1403	297	21.1	0	1.03
553-125	3180-3190	1575	181	152	36	39	1983	408	20.6	0	0.91
553-126	3190-3200	2764	278	365	88	57	3552	788	22.2	0	1.55
553-127	3200-3209	2334	492	389	80	51	3347	1013	30.3	265	1.57
553-128	3209-3218	1542	691	542	81	58	2914	1372	47.1	475	1.38
553-129	3218-3227	944	667	661	80	69	2421	1477	61.0	235	1.17
553-130	3227-3236	1123	732	645	79	53	2632	1509	57.3	285	1.50
553-131	3236-3245	831	543	554	83	53	2063	1232	59.7	252	1.56
553-132	3245-3254	932	648	577	75	48	2280	1348	59.1	243	1.56
553-133	3254-3263	1585	691	597	102	75	3050	1465	48.0	248	1.35
553-134	3263-3272	440	263	305	58	39	1105	665	60.2	267	1.48
553-135	3272-3281	1529	717	700	95	86	3127	1598	51.1	227	1.11
553-136	3281-3290	586	356	431	68	57	1498	913	60.9	315	1.19
553-137	3290-3299	749	286	563	106	105	1809	1060	58.6	440	1.01
553-138	3299-3308	421	196	238	45	38	939	518	55.1	229	1.17
553-139	3308-3317	406	165	253	48	43	916	510	55.7	107	1.12
553-140	3317-3326	247	115	192	38	47	639	392	61.4	151	0.82
553-141	3326-3335	182	79	194	46	81	582	400	68.7	262	0.56
553-142	3335-3344	714	318	494	122	223	1870	1156	61.8	1070	0.55
553-143	3344-3353	540	189	322	82	207	1341	801	59.7	1676	0.40
553-144	3353-3362	752	420	974	402	973	3521	2770	78.6	9676	0.41
553-145	3362-3371	682	659	573	145	271	2330	1648	70.7	1885	0.53
553-146	3371-3380	626	471	970	222	588	2877	2251	78.2	1606	0.38

TABLE 1C  
TOTAL CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS (1A + 1B)

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-147	3380-3389	341	189	594	174	423	1721	1380	80.2	4781	0.41
553-148	3389-3398	721	462	1288	369	834	3674	2953	80.4	4564	0.44
553-149	3398-3407	273	56	125	33	58	545	271	49.8	1136	0.56
553-150	3407-3416	1477	349	612	125	297	2861	1384	48.4	1593	0.42
553-151	3416-3425	7070	4321	3919	1042	2434	18785	11716	62.4	11423	0.43
553-152	3425-3434	3171	1849	2142	336	795	8293	5123	61.8	2379	0.42
553-153	3434-3443	274	190	369	55	186	1074	800	74.5	1514	0.29
553-154	3443-3452	3227	1436	1141	137	389	6332	3104	49.0	2186	0.35
553-155	3452-3461	946	355	409	69	158	1936	990	51.1	4627	0.44
553-156	3461-3470	539	127	167	24	149	1007	468	46.5	1875	0.16
553-157	3470-3479	322	178	338	45	142	1025	703	68.6	780	0.32
553-158	3479-3488	732	204	222	37	135	1329	598	44.9	2338	0.27
553-159	3488-3497	1201	309	252	29	106	1898	697	36.7	800	0.28
553-160	3497-3506	2712	382	430	50	120	3695	982	26.6	2224	0.42
553-161	3506-3515	346	446	512	57	142	1504	1159	77.0	1401	0.40
553-162	3515-3524	1126	817	528	70	194	2735	1609	58.8	1763	0.36
553-163	3524-3533	387	2172	406	37	118	3120	2733	87.6	1693	0.31
553-164	3533-3542	1328	980	812	64	180	3364	2036	60.5	380	0.36
553-165	3542-3551	3028	1943	1348	110	232	6662	3633	54.5	934	0.47
553-166	3551-3560	2001	1582	737	40	51	4410	2409	54.6	318	0.78
553-167	3560-3569	1479	1607	567	14	75	3742	2263	60.5	704	0.18
553-168	3569-3578	864	755	449	32	27	2127	1263	59.4	402	1.18
553-169	3578-3587	1150	846	524	54	35	2608	1459	55.9	715	1.53
553-170	3587-3596	6135	4157	1948	154	157	12551	6416	51.1	1247	0.98
553-171	3596-3605	2610	1825	776	63	72	5346	2736	51.2	732	0.87
553-172	3605-3614	4580	2598	931	107	72	8288	3708	44.7	746	1.49
553-173	3614-3623	582	1797	1078	114	111	3682	3099	84.2	665	1.03
553-174	3623-3632	4086	3026	1466	131	166	8874	4788	54.0	880	0.79
553-175	3632-3641	1222	792	507	60	62	2643	1422	53.8	681	0.97

TABLE 1C  
TOTAL CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS (1A + 1B)

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-176	3641-3650	1946	921	651	107	116	3742	1796	48.0	187	0.92
553-177	3650-3659	5033	1273	2280	689	1577	10851	5818	53.6	1416	0.44
553-178	3659-3668	3682	1195	2244	548	1831	9500	5819	61.2	2786	0.30
553-179	3668-3677	4682	1204	2089	427	1756	10158	5476	53.9	4585	0.24
553-180	3677-3686	13058	2985	3018	468	1782	21312	8254	38.7	7769	0.26
553-181	3686-3695	17132	2828	3924	614	2668	27166	10034	36.9	12070	0.23
553-182	3695-3704	10504	2755	3677	613	2488	20038	9534	47.6	10622	0.25
553-183	3704-3713	9856	2512	3555	741	3135	19800	9944	50.2	10111	0.24
553-184	3713-3722	12316	1946	3097	445	3353	21157	8841	41.8	8468	0.13
553-185	3722-3731	9389	1753	2161	367	1506	15177	5788	38.1	8863	0.24
553-186	3731-3740	8969	1950	2695	631	2180	16425	7456	45.4	6177	0.29
553-187	3740-3749	11738	1753	2211	533	2397	18632	6893	37.0	11438	0.22
553-188	3749-3758	7660	1344	1647	424	1877	12952	5292	40.9	8315	0.23
553-189	3758-3767	5330	1530	2537	801	3171	13369	8039	60.1	8615	0.25
553-190	3767-3776	8251	1333	1584	405	1593	13166	4915	37.3	6084	0.25
553-191	3776-3785	5285	1001	1199	278	1548	9311	4026	43.2	5556	0.18
553-192	3785-3794	5169	1302	1425	355	1471	9721	4552	46.8	6260	0.24
553-193	3794-3803	4867	1086	1738	737	901	9329	4461	47.8	3869	0.82
553-194	3803-3812	1364	566	3446	848	3301	9526	8161	85.7	5523	0.26
553-195	3812-3821	3134	1130	4437	849	4070	13619	10485	77.0	6748	0.21
553-196	3821-3830	16283	3911	4081	747	2861	27883	11599	41.6	5922	0.26
553-197	3830-3839	20999	5182	4648	676	2939	34444	13445	39.0	5880	0.23
553-198	3839-3848	27373	6911	5266	885	3338	43773	16400	37.5	6785	0.27
553-199	3848-3857	28925	7157	4716	730	3384	44912	15987	35.6	5783	0.22
553-200	3857-3866	26862	6454	5045	955	3705	43021	16159	37.6	7519	0.26
553-201	3866-3875	20884	4118	2897	391	2123	30414	9529	31.3	5907	0.18
553-202	3875-3884	30054	2553	1633	566	1132	35938	5884	16.4	3430	0.50
553-203	3884-3893	44749	3176	2028	205	1180	51337	6589	12.8	4482	0.17
553-204	3893-3902	33488	3368	2435	373	1640	41304	7816	18.9	2467	0.23
553-205	3902-3911	30465	4273	4749	749	3149	43385	12920	29.8	3754	0.24

TABLE 1C  
TOTAL CONCENTRATION (VOL. PPM OF ROCK) OF C<sub>1</sub> - C<sub>7</sub> HYDROCARBONS (1A + 1B)

GEOCHEM SAMPLE NUMBER	DEPTH	C <sub>1</sub> Methane	C <sub>2</sub> Ethane	C <sub>3</sub> Propane	iC <sub>4</sub> Isobutane	nC <sub>4</sub> Butane	TOTAL C <sub>1</sub> - C <sub>4</sub>	TOTAL C <sub>2</sub> - C <sub>4</sub>	% GAS WETNESS	TOTAL C <sub>5</sub> - C <sub>7</sub>	$\frac{iC_4}{nC_4}$
553-206	3911-3920	22639	3033	2081	291	1078	29121	6483	22.3	1406	0.27
553-207	3920-3929	16278	2282	1501	158	770	20990	4711	22.4	2899	0.21
553-208	3929-3938	19271	7380	6656	961	6028	40295	21024	52.2	14074	0.16
553-209	3938-3947	18188	6214	3849	287	2669	31208	13020	41.7	8573	0.11
553-210	3947-3956	22589	9455	6696	664	6050	45454	22865	50.3	10989	0.11
553-211	3956-3965	19070	7423	4997	465	4046	36002	16932	47.0	10142	0.12
553-212	3965-3974	10254	3600	2621	231	1894	18600	8346	44.9	5220	0.12
553-213	3974-3983	13013	2809	2752	283	1365	20223	7209	35.6	3830	0.21
553-214	3983-3992	19128	4267	3573	261	1688	28918	9789	33.9	4141	0.15
553-215	3992-4001	14463	1850	1239	96	417	18066	3603	19.9	2130	0.23
553-216	4001-4010	23273	3641	3348	354	1559	32174	8901	27.7	1585	0.23
553-217	4010-4019	11502	2375	3721	400	1848	19846	8344	42.0	2005	0.22
553-218	4019-4028	15443	3771	4964	560	2243	26981	11539	42.8	3014	0.25
553-219	4028-4037	13183	2986	5151	585	2470	24374	11191	45.9	5261	0.24
553-220	4037-4046	19302	4195	5899	640	2646	32682	13380	40.9	2371	0.24
553-221	4046-4055	11021	2328	2991	359	1468	18166	7146	39.3	1503	0.24
553-222	4055-4064	6444	1712	2752	232	1308	12447	6003	48.2	2194	0.18
553-223	4064-4073	6991	1737	3304	234	1522	13788	6797	49.3	2097	0.15
553-224	4073-4082	3849	1217	2342	255	1146	8810	4961	56.3	2993	0.22
553-225	4082-4088	1269	417	1187	104	518	3495	2226	63.7	2613	0.20

TABLE 2  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (% of Rock)
553-076	2390-410m	A 95% Shaly Mudstone, blocky, soft to mod. hard, sl. calc. to calc., mod. caving, medium light grey to light grey B 5% Lost circulation material - mica, cement Minor other shale, mostly caved	N6-N7	0.94,0.98
553-077	2410-430m	A 95% Mudstone, as 553-076A, mod. cavings B 5% Lost circulation material - mica, cement Minor other shale mostly caved	N6-N7	0.78
553-078	2430-450m	A 95% Shaly Mudstone, as 553-076A, mod. caved B 5% Lost circulation material - mica, cement Minor other shale, mostly caved	N6-N7	0.66
553-079	2450-470m	A 65% Shale, platy, fissile, mod. hard, very sl. calc. to non calc., minor cavings, medium dark grey B 35% Mudstone, as 553-076A, minor cavings Minor other shale	N4 N6-N7	0.68 0.59
553-080	2470-490m	A 98% Mudstone, as 553-076A, minor cavings Minor other shale, mostly caved	N6-N7	0.74
553-081	2490-510m	A 60% Mudstone, as 553-076A, mod. caved B 40% Shale, as 553-079A, mod. caved Minor othr shale, mostly caved Minor lost circulation material - cement and drilling mud	N6-N7 N4	0.77 0.62,0.62
553-082	2510-530m	A 55% Shale, platy, fissile, mod. hard, very sl. calc., mod. caved, medium dark grey B 45% Shaly Mudstone, blocky, rounded, sl. calc. to calc., mod. caved, medium light grey to light grey Minor sandstone and other shale (caved)	N4 N6-N7	0.57 0.66
553-083	2530-550m	A 50% Shale, platy, fissile, mod. hard, non calc., minor caving, medium dark grey B 50% Shale, silty, soft to mod. hard, subfissile, calc., medium light grey Minor other shale, mostly caved	N4 N6	0.88 0.36

Abbreviations = argillaceous, calcareous, Cut, Fluorescence, slightly

TABLE 2  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (% of Rock)
553-084	2550-570m	A 50% Shale, platy, fissile, mod. hard, non calc., minor caving, medium dark grey	N4	0.68,0.70
		B 50% Shale, silty, soft to mod. hard, subfissile, calc., medium light grey Minor other shale and limestone, mostly caved	N6	0.49
553-085	2570-590m	A 70% Shale, platy, fissile, mod. hard, very sl. calc., mod. cavings, medium dark grey	N4	0.80
		B 30% Mudstone, blocky, subrounded, soft to mod. hard, sl. calc. to calc., medium light grey to light grey Minor lost circulation material	N6-N7	0.67
553-086	2590-610m	A 60% Shale, as 553-085A, minor caving	N4	0.49
		B 40% Mudstone, as 553-085B Minor other shale Lost circulation material - cement	N6-N7	0.54
553-087	2610-630m	A 50% Shaly Mudstone, blocky, soft to mod. hard, very sl. calc. to non calc., medium dark grey to brownish grey	N4-5YR4/1	0.43,0.39
		B 30% Shale, as 553-085A, mod. cavings	N4	0.72
		C 20% Mudstone, as 553-085B, mod. caving Minor other shale Lost circulation material - cement	N6-N7	0.48
553-088	2630-650m	A 70% Silty Mudstone, blocky, mod. hard, sl. calc. to calc., medium light grey	N6	0.76
		B 30% Shale, as 553-085A, mod. caved Minor othr shale, mostly caved Lost circulation material - cement	N4	0.30
553-089	2650-670m	A 55% Shale, as 553-085A, mod. caved	N4	0.34
		B 45% Mudstone, as 553-088A Minor other shale Lost circulation material - cement	N6	0.59
553-090	2670-690m	A 60% Siltstone, blocky, mod. hard, calc., light grey to very light brownish grey	N7-5YR7/1	0.46,0.46
		B 25% Shale, as 553-085A, mod. cavings	N4	0.86

Abbreviations = argillaceous, calcareous, Cut, Fluorescence, slightly



TABLE 2  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (% of Rock)
553-090	2670-690m	C 15% Silty Mudstone, blocky, hard, calc. medium grey to medium olive grey Minor other shale Minor lost circulation material	N5-5Y5/1	0.67
553-091	2690-710m	A 80% Shale, platy, fissile, mod. hard, very sl. calc., mod. caved, medium dark grey	N4	0.64
		B 20% Siltstone, blocky, mod. hard, calc., light grey to very light brownish grey Minor other shale Lost circulation material - cement	N7-5YR7/1	0.28
553-092	2710-730m	A 55% Shale, thinly fissile, soft to mod. hard, sl. to non calc., medium dark grey	N4	0.56
		B 45% Silty Mudstone, as 553-091B Minor other shale Lost circulation material - metal turnings and cement	N7-5YR7/1	0.48
553-093	2730-750m	A 55% Shale, as 553-092A, mod. caved	N4	0.71
		B 45% Silty Mudstone, as 553-090C Minor other shale	N5-5Y5/1	0.38
553-094	2750-770m	A 90% Mudstone, as 553-090C	N5-5Y5/1	0.48
		B 10% Shale, as 553-092A, mostly caved Minor other shale	N4	0.84
553-095	2770-790m	A 95% Shaly Mudstone, blocky, mod. hard, sl. calc. to calc., medium dark grey	N4	0.76
		B 5% Limestone, blocky, chalky, light grey to pinkish grey Minor other shale	N7-5YR8/1	0.64
553-096	2790-810m	A 98% Mudstone, as 553-095A Minor limestone, other shale	N4	0.72
553-097	2810-830m	A 98% Shaly Mudstone, fissile to platy, mod. hard, sl. to non calc., minor cavings, medium dark grey Minor limestone, other shale	N4	0.57
553-098	2830-850m	A 75% Silty Mudstone, blocky, subrounded mod. hard, calc., medium grey	N5	0.84
		B 15% Shale, platy, soft to mod. hard, sl. to non calc., medium dark grey	N4	1.04
		C 10% Shale, blocky, calc., turbodrilled medium dark grey Minor limestone	N4	0.76
553-099	2850-870m	A 45% Mudstone, as 553-098A	N5	0.98

Abbreviations = argillaceous, calcareous, Cut, Fluorescence, slightly

TABLE 2  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (% of Rock)
553-099	2850-870m	B 35% Shale, as 553-098B, mod. caved	N4	1.20
		C 10% Shale, blocky, calc., turbodrilled medium dark grey Minor limestone Minor lost circulation material - cement	N4	0.92
553-100	2870-890m	A 60% Shale, as 553-099C	N4	1.17
		B 30% Shale, as 553-098B	N4	0.89
		C 10% Silty Mudstone, blocky, subrounded mod. hard, calc., medium grey Minor limestone	N5	0.62
553-101	2890-910m	A 65% Mudstone, as 553-100C	N5	0.50
		B 25% Shale, as 553-098B	N4	0.95
		C 10% Shale, as 553-098C Minor limestone	N4	0.68
553-102	2910-930m	A 70% Shale, as 553-098B, mod. caved	N4	0.70
		B 30% Mudstone, as 553-100C Minor other shale	N5	0.70
553-103	2930-950m	A 60% Shale, platy to blocky, mod. hard, sl. calc., turbodrilled, medium dark grey to medium grey	N4-N5	0.60
		B 25% Shale, platy, fissile, mod. hard, sl. calc., mod. caved, medium dark grey	N4	0.80
		C 15% Mudstone, blocky, silty in parts, calc., minor cavings, medium light to light grey Minor lost circulation material - mica	N6-N7	0.74
553-104	2950-970m	A 75% Shale, as 553-103A	N4-N5	0.68
		B 20% Mudstone, as 553-103C	N6-N7	0.74
		C 5% Shale, as 553-103B	N4	1.01
553-105	2970-990m	A 85% Shale, as 553-103A	N4-N5	0.78
		B 15% Mudstone, as 553-103C Minor other shale	N6-N7	0.50
553-106	2990-3000	A 55% Shale, as 553-103B	N4	0.76
		B 45% Shale, as 553-103A Minor mudstone	N4-N5	0.53
553-107	3000-010m	A 98% Shale, platy, fissile to blocky, mod. hard, very sl. calc., turbo- drilled in parts, medium dark grey to medium grey Minor mudstone	N4-N5	0.54,0.58

Abbreviations = argillaceous, calcareous, Cut, Fluorescence, slightly

TABLE 2  
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (% of Rock)
553-108	3010-020m	A 98% Shale, platy, fissile to blocky, mod. hard, very sl. calc., turbo- drilled in parts, medium dark grey to medium grey Minor mudstone	N4-N5	0.54,0.44
553-109	3020-030m	A 98% Shale, as 553-108A Minor mudstone	N4-N5	0.44
553-110	3030-040m	A 98% Shale, as 553-108A Minor limestone and mudstone	N4-N5	0.64
553-111	3040-050m	A 98% Shale, as 553-108A Minor limestone and mudstone	N4-N5	0.78
553-112	3050-060m	A 98% Shale, as 553-108A, minor cavings Minor mudstone	N4-N5	0.70,0.74
553-113	3060-070m	A 98% Shale, as 553-108A Minor mudstone	N4-N5	0.62
553-114	3070-080m	A 98% Shale, as 553-108A Minor mudstone	N4-N5	0.92
553-115	3080-090m	A 98% Shale, as 553-108A Minor limestone and mudstone	N4-N5	0.66
553-116	3090-100m	A 98% Shale, as 553-108A Minor mudstone	N4-N5	0.92
553-117	3100-110m	A 95% Shale, subfissile to blocky, platy in parts, mod. hard, sl. calc., mostly turbodrilled, medium grey B 5% Shale, platy, fissile, mod. hard, non calc., mod. caved, dark grey	N5 N3	0.59 1.78
553-118	3110-120m	A 98% Shale, as 553-117A, minor cavings Minor other shale	N5	1.06,1.02
553-119	3120-130m	A 98% Shale, as 553-117A Minor other shale, limestone	N5	0.90
553-120	3130-140m	A 98% Shale, as 553-117A Minor lost circulation material	N5	0.78
553-121	3140-150m	A 98% Shale, as 553-117A Minor other shale, limestone Minor lost circulation material - cement	N5	0.76
553-122	3150-160m	A 98% Shale, as 553-117A, minor cavings Minor lost circulation material - cement	N5	0.70

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