



THE HYDROCARBON HABITAT OF THE GIPPSLAND BASIN

A NON-EXCLUSIVE STUDY

APPENDIX 5 : VITRINITE REFLECTANCE

PETROLEUM DIVISION

13 AUG 1986

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APPENDIX 5 : VITRINITE REFLECTANCE

BARRACOUTA-I

Shell, 1980				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2650	0.59	0.53	0.67	28
2650	0.70	0.65	0.75	30

BP, 1980		
Depth (m)	VR _{mean} (%)	Number of Deter- minations
713	0.40	15
1019	0.38	4
1070	0.39	20
1448	0.52	20
1725	0.43	20
1868	0.45	21
1966	0.32	20
2062	0.54	20
2209	0.54	20
2351	0.54	21
2649	0.61	20
2650	0.65	21

Gearhart, 1984		
Depth (m)	VR _{mean} (%)	Number of Deter- minations
1091	0.42	20
1180	0.40	20
1286	0.49	20
1378	0.50	21
1423	0.42	21
1512	0.56	20
1597	0.44	22
1646	0.44	22
1686	0.41	20
1737	0.47	20
1789	0.43	20
1817	0.44	21
1847	0.49	21
1905	0.49	20
1957	0.49	7
2015	0.49	20
2045	0.55	20
2115	0.54	20
2195	0.53	21
2256	0.66	21

2313	0.53	20
2332	0.48	23
2377	0.39	20
2411	0.56	21
2457	0.52	21
2481	0.67	23
2512	0.62	21
2554	0.55	20
2594	0.54	21
2627	0.53	20

BARRACOUTA-3

Amdel, 1985				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2228	0.54	0.46	0.63	35
2618	0.60	0.43	0.71	35
2774	0.62	0.41	0.80	41
2844	0.64	0.43	0.93	36
2908	0.73	0.63	0.84	33

BATFISH-I

Amdel, 1985				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2304	0.61	0.53	0.69	34
2490	0.64	0.56	0.75	34
2633	0.69	0.55	0.81	31
2795	0.76	0.66	0.81	23
2874	0.76	0.69	0.90	41

BREAM-2

Amdel, 1985				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2460	0.63	0.52	0.70	39
2554	0.67	0.53	0.80	41
2723	0.73	0.62	0.85	43
2966	0.83	0.71	0.98	38
3242	0.88	0.62	1.13	42

BP, 1980				
1861	0.44			21
1877	0.45			20
1903	0.39			22
1907	0.41			21
1927	0.48			20
1938	0.94			21
2725	0.71			21
2742	0.57			20
2747	0.62			22
2754	0.50			21
3246	0.55			23

Keiraville Konsultants, 1986				
2813	0.65	0.53	0.74	25
2868	0.62	0.52	0.83	25
2960	0.76	0.60	0.94	25
3005	0.78	0.62	0.93	30
3097	0.77	0.64	0.87	13
3133	0.78	0.67	0.85	9
3170	0.81	0.75	0.85	7
3207	0.83	0.70	0.97	9
3243	0.84	0.79	0.90	4

COD-I

Amdel, 1985				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2164	0.63	0.53	0.81	41
2540	0.59	0.47	0.67	34
2752	0.75	0.61	0.85	32
2883	0.77	0.61	0.86	41

FLOUNDER-I

Amdel, 1985				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2265	0.44	0.36	0.56	39
2677	0.64	0.56	0.77	36
2786	0.61	0.52	0.77	42
3168	0.72	0.58	0.80	34
3459	0.90	0.76	0.97	36
3559	0.90	0.78	1.04	44

Shell, 1982				
2271	0.55	0.50	0.62	21
2380	0.57	0.51	0.63	28
2679	0.67	0.62	0.71	100
2807	0.61	0.57	0.66	35
3396	0.68	0.65	0.72	45
3464	0.73	0.66	0.82	31
3557	0.75	0.70	0.79	8
3565	0.76	0.71	0.83	32

HALIBUT-I

Amdel, 1985				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2404	0.49	0.37	0.67	39
2576	0.54	0.47	0.61	31
2819	0.57	0.46	0.66	43
2935	0.61	0.54	0.69	35
3008	0.63	0.47	0.75	52

Gearhart, 1984		
Depth (m)	VR _{mean} (%)	Number of Deter- minations
2271	0.53	3
2323	0.47	20
2335	0.49	20
2353	0.44	20
2380	0.50	20
2466	0.45	21
2475	0.48	20
2512	0.46	20
2542	0.48	21
2591	0.51	21
2597	0.48	20
2643	0.50	20
2685	0.43	8
2719	0.48	14
2743	0.52	20
2804	0.46	21
2813	0.41	20
2859	0.47	21
2896	0.44	20
2914	0.47	20
2935	0.48	20
2963	0.42	20
3018	0.50	20
3045	0.46	20

HERMES-I

 Keiraville Konsultants, 1986

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
3430	0.64	0.51	0.80	30
3500	0.71	0.54	0.86	30
3580	0.72	0.58	0.89	33
3650	0.73	0.65	0.85	30
3690	0.75	0.63	0.91	30
3720	0.78	0.64	0.92	25
3780	0.82	0.69	0.94	26
3830	0.81	0.67	0.95	28
3890	0.82	0.69	0.96	27
3930	0.84	0.72	0.93	29
3970	0.84	0.72	0.99	26
4020	0.86	0.71	0.99	27
4070	0.88	0.75	0.99	27
4110	0.87	0.75	0.99	28
4140	0.89	0.76	1.02	26
4180	0.88	0.76	1.01	25
4240	0.88	0.77	1.02	25
4270	0.91	0.80	1.02	29
4350	0.92	0.82	1.04	25
4470	0.94	0.84	1.05	27

MACKEREL-I

Amdel, 1985				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2670	0.63	0.52	0.71	31
2935	0.66	0.59	0.76	25
3008	0.65	0.60	0.73	28

MARLIN A-6

Keiraville Konsultants, 1986

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
1496	0.44	0.36	0.55	26
1565	0.44	0.38	0.52	26
1612	0.47	0.35	0.55	28
1638	0.43	0.33	0.50	25
1708	0.44	0.36	0.54	26
1843	0.49	0.39	0.61	25
1912	0.47	0.40	0.54	29
1999	0.46	0.39	0.55	30
2059	0.50	0.39	0.66	27
2136	0.54	0.46	0.60	6
2215	0.56	0.51	0.61	25
2298	0.61	0.51	0.73	26
2334	0.69	0.59	0.79	26
2368	0.70	0.57	0.88	26
2402	0.73	0.60	0.85	26
2436	0.72	0.60	0.82	25
2470	0.71	0.62	0.84	25
2505	0.73	0.60	0.82	25
2540	0.73	0.63	0.83	25
2584	0.76	0.68	0.86	25
2613	0.74	0.64	0.89	32
2643	0.73	0.66	0.85	25
2673	0.58	0.43	0.66	8
2673	0.74	0.69	0.82	13
2702	0.72	0.64	0.81	25
2733	0.74	0.66	0.86	32
2763	0.75	0.67	0.83	25
2796	0.74	0.62	0.82	30
2823	0.77	0.68	0.92	25
2853	0.78	0.67	0.91	31

MARLIN-I

Amdel, 1985

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2155	0.65	0.52	0.80	32
2285	0.65	0.54	0.72	38
2371	0.67	0.47	0.88	39
2509	0.71	0.64	0.79	4
2577	0.70	0.56	0.79	32

MORWONG-I

Shell, 1980				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
1661	0.42	0.38	0.48	32
1783	0.44	0.40	0.49	35
1996	0.43	0.39	0.49	21
2301	0.49	0.46	0.54	100

NANNYGAI-I

Amdel, 1985

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2365	0.52	0.39	0.65	33
2536	0.50	0.42	0.65	32
2980	0.64	0.57	0.71	35
3005	0.64	0.51	0.75	31

PERCH-I

BP, 1980				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
1134	0.38			20
1152	0.44			22
1165	0.35			23
1173	0.31			20
2661	0.68			21
2667	0.68			20

Gearhart, 1984				
1155	0.42			20
1201	0.42			20
1289	0.41			20
1320	0.41			20
1469	0.50			20
1512	0.58			20
1542	0.53			0
1542	0.53			20
1679	0.41			20
1743	0.54			20
1811	0.49			20
1844	0.52			20
1929	0.54			20
1996	0.53			17
2091	0.59			21
2146	0.52			24
2182	0.60			20
2210	0.42			20
2268	0.49			21
2335	0.62			23
2396	0.56			22
2408	0.54			21
2466	0.65			22
2484	0.63			22
2515	0.57			20
2576	0.49			20
2621	0.60			7
2652	0.54			10
2673	0.54			13
2688	0.89			20
2761	0.85			20
2789	0.72			9
2832	0.67			20
2856	0.68			22

SALMON-I

Amdel, 1985

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2338	0.50	0.38	0.64	35
2448	0.56	0.45	0.67	37
2701	0.60	0.45	0.67	33
2819	0.64	0.54	0.79	36
3004	0.80	0.68	0.87	37

Keiraville Konsultants, 1986

2746	0.63	0.45	0.74	25
2774	0.61	0.48	0.78	25
2804	0.65	0.52	0.78	25
2835	0.75	0.61	0.93	27
2865	0.74	0.62	0.88	25
2896	0.74	0.62	0.91	32
2926	0.74	0.62	0.83	25
2957	0.74	0.62	0.87	25
2987	0.75	0.64	0.84	25

SNAPPER-I

Amdel, 1985

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2219	0.56	0.43	0.69	37
2363	0.56	0.38	0.73	38
2821	0.68	0.60	0.72	33
3018	0.86	0.62	0.96	17
3091	0.81	0.58	1.01	31
3199	0.99	0.81	1.06	35

Gearhart, 1984

1521	0.48			20
1588	0.50			20
1725	0.55			20
1728	0.50			20
1789	0.63			20
1792	0.55			20
1878	0.59			20
1954	0.52			20
2045	0.56			20
2121	0.53			20
2188	0.52			20
2243	0.56			20
2304	0.57			20
2365	0.59			20
2408	0.63			20
2472	0.66			20
2533	0.59			20
2609	0.63			20
2685	0.66			20
2774	0.65			20
2911	0.69			20
3018	0.86			20
3109	0.83			20
3149	0.84			25
3393	0.99			20
3459	1.19			20
3463	1.27			20
3545	1.51			20
3548	1.44			20
3581	1.36			20
3584	1.02			9
3624	1.12			20
3627	1.28			20
3679	1.07			20
3682	0.98			20
3746	1.13			20
3749	1.11			20

2972	0.90	0.77	1.01	25
2990	0.87	0.71	1.04	31
3027	0.89	0.77	1.03	25
3100	0.90	0.75	1.04	25
3118	0.92	0.78	1.03	25
3182	0.90	0.76	1.03	31

TARWHINE-I

Keiraville Konsultants, 1986

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2610	0.65	0.51	0.79	33
2650	0.63	0.49	0.83	26
2770	0.69	0.57	0.88	25
2810	0.69	0.59	0.80	25
2890	0.68	0.60	0.76	16
2950	0.71	0.60	0.88	11

TUNA-I

Shell, 1982				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
2643	0.68	0.63	0.75	0
2786	0.72	0.69	0.77	0

BP, 1980		
2021	0.48	21
2259	0.46	20
2458	0.50	20
2667	0.45	21
2679	0.43	2
2850	0.63	20
3088	0.50	3
3325	0.76	5
3538	0.74	20

Gearhart, 1984		
1430	0.32	6
1433	0.37	5
1509	0.40	3
1594	0.31	20
1615	0.37	20
1664	0.33	20
1713	0.42	20
1731	0.38	20
1743	0.35	20
1807	0.34	20
1868	0.34	25
1881	0.33	20
1899	0.46	21
1975	0.49	20
2079	0.52	18
2118	0.54	21
2390	0.43	8
2426	0.57	20
2490	0.67	4
2536	0.60	20
2591	0.65	20
2621	0.61	20
2670	0.60	20
2749	0.64	20

2826	0.64	20
2908	0.68	20
3048	0.86	23
3146	0.88	16
3289	0.81	20

TUNA-3

BP, 1980				
Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
1396	0.36			21
1952	0.53			20
1967	0.48			21
1977	0.51			20
1989	0.53			20
2013	0.35			21

Keiraville Konsulants, 1986

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
3040	0.75	0.62	0.90	25
3140	0.75	0.66	0.85	25
3200	0.78	0.65	0.92	28
3280	0.78	0.68	0.90	25
3360	0.90	0.77	1.04	25
3400	0.88	0.78	1.07	31
3460	0.98	0.84	1.11	25
3500	0.96	0.85	1.06	18

Analabs, 1983

Depth (m)	VR _{mean} (%)	VR _{min} (%)	VR _{max} (%)	Number of Deter- minations
3550	0.61	0.50	0.68	0
3645	0.71	0.60	0.80	0
3674	0.72	0.66	0.86	0
3692	0.82	0.63	0.93	0
3799	0.75	0.66	0.89	0
3820	0.76	0.67	0.88	0
3920	0.85	0.75	0.93	0
3950	0.94	0.75	1.05	0
4039	0.89	0.82	0.96	0
4152	0.85	0.72	0.95	0
4170	0.88	0.68	1.03	0
4191	0.89	0.75	1.01	0
4218	0.85	0.72	0.98	0
4264	0.83	0.70	0.94	0
4372	0.88	0.75	0.99	0
4526	0.90	0.81	0.98	0
4536	0.89	0.77	1.02	0
4554	0.89	0.74	1.01	0