



**BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS**

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1 February 1985

Miss S. Hickey  
Technical Information Section  
N.T. Geological Survey  
G.P.O. Box 2901  
DARWIN N.T. 5974

Dear Sue,

Please find enclosed a copy of the results of Rock Eval analyses of core I sampled at the NTGS Core Library in August last year.

The results are most encouraging and further analyses are being done. I will naturally keep you informed!

All the best,

*Ian Crick*

Ian Crick

ENCL.

**OPEN FILE**

**NORTHERN TERRITORY  
GEOLOGICAL SURVEY**

CR85/46.

BASIN

MCARTHUR

WELL GR7

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ID	DEPTH-M		TMAX	S1	S2	S3	ORG C
	UD	LD	DEG C	KG PER TONNE			%

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FORMATION BARNEY CREEK

1	1673	805.9	805.9	444	1.20	2.53	.36	2.12
2	1674	854.0	854.0	451	1.29	4.83	.59	3.67
3	1675	858.7	858.7	451	1.25	3.89	.74	3.38
4	1676	875.8	875.8	446	1.12	2.49	.76	2.57
5	1677	906.2	906.2	432	.01	.03	.30	0.00

BASIN

MCARTHUR

WELL GR7

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DEPTH M	ORG C %	S1+S2 KG/T	S2/S3	PI	TMAX DEG C	HI	OI	ID-NO
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FORMATION BARNEY CREEK

805.9	2.12	3.73	7.03	.32	444	119	17	1673
854.0	3.67	6.12	8.19	.21	451	132	16	1674
858.7	3.38	5.14	5.26	.24	451	115	22	1675
875.8	2.57	3.61	3.28	.31	446	97	30	1676
906.2	0.00	.04	.10	.25	432			1677

BASIN

MCARTHUR

WELL GR9

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ID	DEPTH-M	TMAX	S1	S2	S3	ORG C
	UD LD	DEG C		KG PER TONNE		%

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FORMATION BARNEY CREEK

6	1678	422.2	422.2	442	.24	1.69	.37	1.54
7	1679	468.7	468.7	445	.32	2.51	.40	1.92
8	1680	469.6	469.6	443	.42	2.09	.30	1.37
9	1681	485.5	485.5	447	0.00	.02	.35	0.00
10	1682	500.1	500.1	444	.81	6.51	.45	3.57

BASIN

MCARTHUR

WELL GR9

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DEPTH M	ORG C %	S1+S2 KG/T	S2/S3	PI	TMAX DEG C	HI	OI	ID-NO
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FORMATION BARNEY CREEK

422.2	1.54	1.93	4.57	.12	442	110	24	1678
468.7	1.92	2.83	6.28	.11	445	131	21	1679
469.6	1.37	2.51	6.97	.17	443	153	22	1680
485.5	0.00	.02	.06	0.00	447			1681
500.1	3.57	7.32	14.47	.11	444	182	13	1682

BASIN

MCARTHUR

WELL GR10

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ID	DEPTH-M		TMAX	S1	S2	S3	ORG C
	UD	LD	DEG C	KG PER TONNE			%

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FORMATION BARNEY CK

1	1808	80.1	80.1	435	1.83	17.82	.83	4.31
2	1809	88.4	88.4	438	2.81	22.12	1.44	4.43
3	1810	143.3	143.3	440	2.75	36.85	1.83	6.06
4	1811	170.3	170.3	438	.70	7.17	1.91	2.24
5	1812	182.8	182.8	438	1.56	23.13	2.06	2.55
6	1813	232.8	232.8	438	2.70	30.10	2.27	7.57
7	1814	252.1	252.1	438	2.53	27.78	2.46	6.10
8	1815	291.0	291.0	433	1.28	3.09	2.45	1.18
9	1830	297.2	297.2	441	.69	3.07	2.24	1.76
10	1831	360.0	360.0	439	.12	.28	1.70	.97
11	1832	410.0	410.0	441	.24	.62	1.34	1.28
12	1833	443.0	443.0	444	.82	2.09	1.42	1.85
13	1834	469.8	469.8	444	.42	1.49	1.41	1.51
14	1835	481.4	481.4	446	.75	2.62	1.36	2.13
15	1836	514.2	514.2	443	1.00	3.96	1.52	2.87
16	1837	527.7	527.7	441	.37	.70	1.15	1.25
17	1838	548.9	548.9	443	.63	.67	1.20	1.04
18	1839	557.5	557.5	406	1.10	1.46	1.13	.73
19	1840	559.9	559.9	454	.69	.52	.84	.88
20	1841	571.6	571.6	446	.77	2.50	.98	2.21
21	1842	575.3	575.3	448	.69	2.33	.97	2.26
22	1843	587.3	587.3	445	.74	1.34	1.03	1.48
23	1844	597.1	597.1	443	1.05	1.93	.33	1.55
24	1845	601.9	601.9	443	1.66	4.77	1.10	3.89
25	1846	602.5	602.5	443	1.58	5.94	.98	4.46
26	1847	609.5	609.5	441	1.91	3.66	1.39	3.20
27	1848	621.5	621.5	442	.71	.58	1.32	.87
28	1849	630.0	630.0	447	.68	.90	1.08	1.37
29	1850	638.7	638.7	446	1.49	1.45	.95	1.73
30	1851	644.1	644.1	460	.14	.11	.96	.34
31	1852	645.9	645.9	454	.92	1.78	1.57	1.84
32	1853	646.9	646.9	459	.90	1.55	.95	1.29
33	1854	652.5	652.5	463	.27	.47	.54	.52
34	1855	662.1	662.1	466	.82	2.03	.27	1.14
35	1856	668.5	668.5	470	0.00	.01	.09	.11

BASIN

MCARTHUR

WELL GR10

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DEPTH M	ORG C %	S1+S2 KG/T	S2/S3	PI	TMAX DEG C	HI	OI	ID-NO
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FORMATION BARNEY CK

80.1	4.31	19.65	21.47	.09	435	413	19	1808
88.4	4.43	24.93	15.36	.11	438	499	33	1809
143.3	6.06	39.60	20.14	.07	440	608	30	1810
170.3	2.24	7.87	3.75	.09	438	320	85	1811
182.8	2.55	24.69	11.23	.06	438	907	81	1812
232.8	7.57	32.80	13.26	.08	438	398	30	1813
252.1	6.10	30.31	11.29	.08	438	455	40	1814
291.0	1.18	4.37	1.26	.29	433	262	208	1815
297.2	1.76	3.76	1.37	.18	441	174	127	1830
360.0	.97	.40	.16	.30	439	29	175	1831
410.0	1.28	.86	.46	.28	441	48	105	1832
443.0	1.85	2.91	1.47	.28	444	113	77	1833
469.8	1.51	1.91	1.06	.22	444	99	93	1834
481.4	2.13	3.37	1.93	.22	446	123	64	1835
514.2	2.87	4.96	2.61	.20	443	138	53	1836
527.7	1.25	1.07	.61	.35	441	56	92	1837
548.9	1.04	1.30	.56	.48	443	64	115	1838
557.5	.73	2.56	1.29	.43	406	200	155	1839
559.9	.88	1.21	.62	.57	454	59	95	1840
571.6	2.21	3.27	2.55	.24	446	113	44	1841
575.3	2.26	3.02	2.40	.23	448	103	43	1842
587.3	1.48	2.08	1.30	.36	445	91	70	1843
597.1	1.55	2.98	5.85	.35	443	125	21	1844
601.9	3.89	6.43	4.34	.26	443	123	28	1845
602.5	4.46	7.52	6.06	.21	443	133	22	1846
609.5	3.20	5.57	2.63	.34	441	114	43	1847
621.5	.87	1.29	.44	.55	442	67	152	1848
630.0	1.37	1.58	.83	.43	447	66	79	1849
638.7	1.73	2.94	1.53	.51	446	84	55	1850
644.1	.34	.25	.11	.56	460	32	282	1851
645.9	1.84	2.70	1.13	.34	454	97	85	1852
646.9	1.29	2.45	1.63	.37	459	120	74	1853
652.5	.52	.74	.87	.36	463	90	104	1854
662.1	1.14	2.85	7.52	.29	466	178	24	1855
668.5	.11	.01	.11	0.00	470	9	82	1856

BASIN

MCARTHUR

WELL GR11

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ID	DEPTH-M		TMAX	S1	S2	S3	ORG C
	UD	LD	DEG C	KG PER TONNE			%

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## FORMATION BARNEY CK

1	1857	96.9	96.9	436	.20	1.25	0.00	1.22
2	1858	118.3	118.3	429	.04	.18	0.00	.33
3	1859	132.0	132.0	433	.16	.50	0.00	.77
4	1860	178.9	178.9	438	.45	2.53	.03	1.90
5	1861	202.8	202.8	435	.53	2.54	.32	2.57
6	1862	204.4	204.4	430	.23	.91	.41	1.32
7	1863	229.6	229.6	437	.35	1.49	.50	1.61
8	1864	247.7	247.7	439	.59	2.81	.54	2.09
9	1865	253.8	253.8	442	.60	3.27	.69	2.15
10	1866	266.2	266.2	441	.38	1.64	.72	1.61
11	1867	272.1	272.1	437	.50	2.24	.85	2.14
13	1869	299.2	299.2	437	.20	.93	0.00	1.09
14	1870	317.8	317.8	444	.45	1.62	.11	1.66
15	1871	336.3	336.3	438	.28	1.36	0.00	1.35
16	1872	339.4	339.4	446	.39	1.40	.16	1.44
17	1873	347.3	347.3	443	.77	2.34	.31	1.80
18	1874	350.4	350.4	420	.28	1.11	.39	.60
19	1875	378.3	378.3	443	.31	1.23	.08	1.39
20	1876	382.1	382.1	446	.45	.91	.12	1.48
21	1877	387.5	387.5	448	.59	2.21	.11	1.80
22	1878	410.2	410.2	442	.88	2.46	.15	2.71
23	1879	412.8	412.8	437	1.04	2.31	.49	1.87
24	1880	415.2	415.2	446	1.12	6.41	.46	5.38
25	1881	422.2	422.2	434	.09	.11	.44	.50
26	1882	424.3	424.3	446	.52	1.36	.33	1.64
27	1883	426.1	426.1	436	.12	.18	.13	.45
28	1884	434.1	434.1	449	.61	1.17	.11	0.00
29	1885	437.2	437.2	449	.63	1.14	.12	1.60
30	1886	438.2	438.2	447	.07	.11	0.00	.42
31	1887	441.9	441.9	452	.66	1.02	.05	1.70
32	1888	443.2	443.2	455	.19	.33	0.00	1.13



BASIN

MCARTHUR

WELL GR11

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DEPTH M	ORG C %	S1+S2 KG/T	S2/S3	PI	TMAX DEG C	HI	OI	ID-NO
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FORMATION BARNEY CK

96.9	1.22	1.45	.	.14	436	102	0	1857
118.3	.33	.22	.	.18	429	55	0	1858
132.0	.77	.66	.	.24	433	65	0	1859
178.9	1.90	2.98	84.33	.15	438	133	2	1860
202.8	2.57	3.07	7.94	.17	435	99	12	1861
204.4	1.32	1.14	2.22	.20	430	69	31	1862
229.6	1.61	1.84	2.98	.19	437	93	31	1863
247.7	2.09	3.40	5.20	.17	439	134	26	1864
253.8	2.15	3.87	4.74	.16	442	152	32	1865
266.2	1.61	2.02	2.28	.19	441	102	45	1866
272.1	2.14	2.74	2.64	.18	437	105	40	1867
299.2	1.09	1.13	.	.18	437	85	0	1869
317.8	1.66	2.07	14.73	.22	444	98	7	1870
336.3	1.35	1.64	.	.17	438	101	0	1871
339.4	1.44	1.79	8.75	.22	446	97	11	1872
347.3	1.80	3.11	7.55	.25	443	130	17	1873
350.4	.60	1.39	2.85	.20	420	185	65	1874
378.3	1.39	1.54	15.38	.20	443	88	6	1875
382.1	1.48	1.36	7.58	.33	446	61	8	1876
387.5	1.80	2.80	20.09	.21	448	123	6	1877
410.2	2.71	3.34	16.40	.26	442	91	6	1878
412.8	1.87	3.35	4.71	.31	437	124	26	1879
415.2	5.38	7.53	13.93	.15	446	119	9	1880
422.2	.50	.20	.25	.45	434	22	88	1881
424.3	1.64	1.88	4.12	.28	446	83	20	1882
426.1	.45	.30	1.38	.40	436	40	29	1883
434.1	0.00	1.78	10.64	.34	449			1884
437.2	1.60	1.77	9.50	.36	449	71	8	1885
438.2	.42	.18	.	.39	447	26	0	1886
441.9	1.70	1.68	20.40	.39	452	60	3	1887
443.2	1.13	.52	.	.37	455	29	0	1888

WELLS PRESENT IN FILE ARE AS FOLLOWS

WELL=GR7

FORMATION=BARNEY CREEK