

PYROLYSIS DATA ON SAMPLES FROM WELLS DRILLED
IN THE GEORGINA BASIN

CRA REPORT No. R570

OPEN FILE

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P00824

R570

Georgina
Basin

AMMAROO 1
AMM-1
21 33 s. lat. 135 24 e. long.

Georgina Basin

#	M	FT	ZI-C	ZO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	46	150	50.3	1.41	---	---	0.34	2.5	529	0.12	173	2.8
2	61	200	43.1	3.01	---	---	0.33	6.4	ndm	0.04	211	6.6
3	152	500	23.2	0.23	---	---	0.13	bd1	ndm	---	---	0.3
4	183	600	0.9	bd1	---	---	---	---	---	---	---	---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

M is sample depth in meters.

FT is sample depth in feet.

ZI-C is inorganic carbon as % calcium carbonate in rock.

ZO-C is organic carbon as % carbon in rock.

ZN is % nitrogen in rock.

ZH is % hydrogen in rock.

S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).

S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).

PI is production index [(S1/(S1+S2))].

TMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).

'bd1' means 'below detection limit'; '---' means 'not determined'.

'ndm' means 'no definitive maximum'.

BUREAU OF MINERAL RESOURCES
CORE AND CUTTINGS
LABORATORY
Available for public inspection
and/or copying after 28th January 85
JS

BAUHINIA 4

BAU-4

Georgina Basin

16 46 s. lat.

135 59 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	7	21	31.5	bd1	---	---	---	---	---	---	---	---
2	12	38	0.6	0.65	---	---	0.10	bd1	ndm	---	---	0.1
3	14	45	4.2	0.27	---	---	bd1	bd1	ndm	---	---	---
4	14	46	73.1	bd1	---	---	---	---	---	---	---	---
5	19	63	0.7	0.17	---	---	---	---	---	---	---	---
6	22	71	bd1	87.52	---	---	bd1	529.0	515	---	604	529.0
7	22	72	0.7	0.49	---	---	0.10	1.0	497	0.15	207	1.2
8	30	99	24.7	0.16	---	---	---	---	---	---	---	---

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BLACK MOUNTAIN 1
BLA-1

Georgina Basin

22 32 s. lat.

140 17 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	134	440	59.9	0.30	---	---	bd1	bd1	ndm	---	---	---
3	164	539	20.6	2.87	---	---	bd1	0.3	ndm	---	10	0.3
3	188	616	36.6	0.36	---	---	bd1	0.2	ndm	---	69	0.3
4	254	834	82.7	bd1	---	---	---	---	---	---	---	---
5	255	838	60.2	0.46	---	---	bd1	0.3	525	---	66	0.3
6	317	1039	83.1	0.37	---	---	bd1	0.7	525	---	189	0.7
7	437	1433	67.8	0.06	---	---	---	---	---	---	---	---
8	589	1931	53.7	0.40	---	---	bd1	0.0	501	---	188	0.8
9	697	2286	50.5	0.63	---	---	0.11	1.0	523	0.10	140	1.1
10	1002	3288	50.8	1.26	---	---	0.16	1.2	ndm	0.11	96	1.4
11	1023	3355	22.6	1.16	---	---	0.26	1.0	ndm	0.13	157	2.1
12	1166	3824	2.3	0.16	---	---	---	---	---	---	---	---
13	1274	4178	4.4	0.15	---	---	---	---	---	---	---	---
14	1678	5504	2.4	0.20	---	---	bd1	bd1	ndm	---	---	---

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BRUNETTE DOWNS 1

BRU-1

Georgina Basin

18 36 s. lat.

136 06 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	473	1550	0.8	bdl	---	---	---	---	---	---	---	---
2	535	1755	0.7	0.11	---	---	---	---	---	---	---	---
3	536	1759	0.6	0.13	---	---	---	---	---	---	---	---
4	564	1851	0.6	0.14	---	---	---	---	---	---	---	---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

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HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) $(S1+S2)$.

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CAMOOWEAL

CAM-1

Georgina Basin

19 43 s. lat.

138 48 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	33	109	30.2	5.70	---	---	0.23	20.6	504	0.01	501	28.8
2	96	315	45.6	6.31	---	---	1.12	17.5	504	0.06	277	18.6
3	109	358	24.5	19.51	---	---	2.39	92.2	520	0.03	473	95.1
4	126	413	3.7	14.82	---	---	bd1	63.3	520	---	427	63.3

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

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TMAX is temperature at which S2 signal is maximum (deg C).

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GP is genetic potential (kg hydrocarbons/ton rock) $(S1+S2)$.

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ETHABUKA 1

ETH-1

Georgina Basin

23 41 s. lat.

138 25 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	27	90	bd1	0.30	bd1	0.90	0.52	bd1	ndm	---	---	0.5
2	814	2670	bd1	0.17	bd1	0.32	0.42	bd1	ndm	---	---	0.4
3	851	2790	0.7	0.15	bd1	0.18	0.51	bd1	ndm	---	---	0.5
4	918	3010	bd1	0.11	0.05	0.09	0.70	bd1	ndm	---	---	0.9
5	1189	3900	bd1	0.12	bd1	0.40	0.35	bd1	ndm	---	---	0.4
6	1253	4110	0.9	0.22	bd1	0.39	0.38	bd1	ndm	---	---	0.4
7	1299	4260	bd1	0.15	bd1	0.38	0.32	bd1	ndm	---	---	0.3
8	1521	4990	3.4	0.12	bd1	0.35	0.37	bd1	ndm	---	---	0.4
9	1564	5130	10.8	0.10	bd1	0.33	0.36	bd1	ndm	---	---	0.4
10	1628	5340	0.5	0.21	0.22	0.47	0.30	bd1	ndm	---	---	0.3
11	1695	5560	bd1	0.17	bd1	0.44	0.35	bd1	ndm	---	---	0.3
12	1762	5780	31.3	0.48	bd1	0.28	0.71	0.3	443	0.73	53	1.0
13	1805	5920	22.7	0.81	0.06	0.19	0.69	0.2	448	0.75	29	0.9

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

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TMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g O-C).

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HUCKITTA 1

HUC-1

Georgina Basin

22 37 s. lat.

135 37 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	62	202	18.5	0.07	---	---	---	---	---	---	---	---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

M is sample depth in meters.

FT is sample depth in feet.

%I-C is inorganic carbon as % calcium carbonate in rock.

%O-C is organic carbon as % carbon in rock.

%N is % nitrogen in rock.

%H is % hydrogen in rock.

S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).

S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).

PI is production index $[S1/(S1+S2)]$.

TMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) $(S1+S2)$.

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LAKE NASH 1

LNA-1

Georgina Basin

20 54 s. lat.

137 53 e. long.

#	M	FT	ZI-C	ZO-C	ZN	ZH	S1	S2	IMAX	PI	HI	GP
1	91	300	108.0	0.34	---	---	0.03	bd1	ndm	---	---	0.1
2	119	390	99.6	0.75	---	---	0.11	bd1	ndm	---	---	0.2
3	149	490	98.6	1.07	---	---	0.11	bd1	ndm	---	---	0.3
4	204	670	84.2	0.80	---	---	0.21	1.3	460	0.14	157	1.5
5	226	740	69.0	0.66	---	---	0.31	1.4	457	0.10	210	1.7
6	313	1028	22.5	0.27	---	---	0.16	bd1	ndm	---	---	0.2
7	363	1190	7.5	bd1	---	---	bd1	bd1	ndm	---	---	---
8	393	1290	bd1	bd1	---	---	0.05	bd1	ndm	---	---	0.1
9	1274	4180	1.5	bd1	---	---	bd1	bd1	ndm	---	---	---

Pyrolysis run with CDS Pyroprobe and modified interface: IMAX inaccurate.

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ZO-C is organic carbon as % carbon in rock.

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S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).

PI is production index [S1/(S1+S2)].

IMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).

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LUCY CREEK 1

LUC-1

Georgina Basin

22 24 s. lat.

136 39 e. long.

#	M	FT	ZI-C	ZO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	152	500	67.5	0.29	---	---	0.23	bd1	ndm	---	---	0.4
2	174	570	73.5	0.26	---	---	0.12	bd1	ndm	---	---	0.1
3	210	690	79.4	bd1	---	---	0.07	bd1	ndm	---	---	0.1
4	247	810	75.1	0.31	---	---	bd1	bd1	ndm	---	---	---
5	326	1070	76.7	0.28	---	---	0.10	bd1	ndm	---	---	0.2
6	384	1260	86.4	bd1	---	---	bd1	bd1	ndm	---	---	---
7	459	1506	74.6	0.28	---	---	bd1	bd1	ndm	---	---	---
8	479	1570	66.6	bd1	---	---	0.09	bd1	ndm	---	---	0.1
9	619	2030	52.3	0.38	---	---	0.18	bd1	ndm	---	---	0.2
10	646	2120	72.7	0.17	---	---	0.17	bd1	ndm	---	---	0.3
11	771	2530	68.6	0.14	---	---	0.08	bd1	ndm	---	---	0.1
12	869	2850	38.9	0.19	---	---	0.07	bd1	ndm	---	---	0.1
13	921	3020	41.6	0.33	---	---	0.08	bd1	ndm	---	---	0.2
14	936	3070	64.4	0.41	---	---	0.07	bd1	ndm	---	---	0.2
15	976	3202	34.7	0.46	---	---	0.53	1.7	464	0.24	369	2.2
16	994	3260	43.6	0.40	---	---	0.23	0.0	461	0.23	193	1.0
17	1037	3400	38.3	0.27	---	---	0.27	0.3	461	0.26	232	1.0
18	1072	3515	39.8	0.74	---	---	1.01	3.7	461	0.21	502	4.7
19	1074	3524	32.4	1.99	---	---	1.13	6.9	456	0.14	340	8.1

Pyrolysis run with CDS Pyroprobe and modified interface: TMAX inaccurate.

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MORSTONE 1

MOR-1

Georgina Basin

19 34 s. lat.

133 31 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	21	70	42.9	0.13	---	---	2.73	bd1	ndm	---	---	2.8
2	40	130	56.6	0.20	---	---	0.07	0.2	453	0.22	89	0.3
3	79	260	62.3	0.34	---	---	0.07	0.4	457	0.16	108	0.4
4	146	480	70.1	0.57	---	---	0.46	5.3	458	0.00	933	5.8
5	213	700	45.1	1.24	---	---	0.44	7.2	462	0.06	573	7.6
6	268	880	93.3	0.30	---	---	0.12	1.4	455	0.00	475	1.6
7	424	1390	0.6	0.46	---	---	0.16	0.6	448	0.20	137	0.8
8	485	1590	1.8	0.32	---	---	0.12	0.4	426	0.24	119	0.5
9	555	1820	14.8	0.10	---	---	0.11	bd1	ndm	---	---	0.3
10	625	2050	1.1	0.65	---	---	0.27	1.0	451	0.21	160	1.3
11	680	2230	13.9	0.19	---	---	0.23	0.2	454	0.51	119	0.5

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MT. ISA

MIS-1

Georgina Basin

20 01 s. lat.

139 39 e. long.

#	M	FT	ZI-C	ZO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	31	100	73.0	5.56	---	---	0.61	21.0	505	0.03	377	21.6
2	45	140	56.5	7.94	---	---	0.47	29.0	ndm	0.02	365	29.5
3	50	165	35.3	5.93	---	---	0.13	22.9	527	0.01	394	23.1
4	53	174	60.9	2.68	---	---	0.00	9.9	ndm	0.01	369	10.0
5	82	269	3.6	0.65	---	---	bd1	2.5	525	---	387	2.5
6	84	276	11.4	7.70	---	---	0.24	36.5	ndm	0.01	474	36.8
7	100	328	36.3	17.59	---	---	2.73	34.0	ndm	0.03	473	86.8
8	119	390	42.5	14.31	---	---	2.95	50.4	509	0.06	352	53.3
9	133	437	44.9	1.92	---	---	0.35	5.2	516	0.06	271	5.5
10	142	465	34.8	6.95	---	---	1.41	23.9	516	0.06	344	25.3
11	166	544	68.0	1.04	---	---	0.05	2.9	506	0.02	375	2.9
12	185	607	53.2	8.01	---	---	1.97	29.9	520	0.06	374	31.9
13	192	630	24.7	9.57	---	---	2.58	31.4	514	0.08	323	33.9
14	219	718	44.1	15.58	---	---	2.59	46.9	524	0.05	301	49.5
15	232	761	8.1	3.16	---	---	0.44	11.6	526	0.04	363	12.1
16	241	790	10.3	4.08	---	---	0.47	7.7	528	0.06	188	8.2

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

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MULGA 1
 MUL-1
 Georgina Basin 21 42 s. lat. 137 39 e. long.

#	M	FT	ZI-C	ZO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	144	472	33.7	3.05			bdl	bdl	ndm			---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

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NETTING FENCE 1

NET-1

Georgina Basin

22 56 s. lat.

138 02 e. long.

#	M	FT	ZI-C	XO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	168	550	3.4	bd1	---	---	0.10	bd1	ndm	---	---	0.1
2	238	780	3.9	0.19	---	---	0.10	bd1	ndm	---	---	0.2
3	311	1020	53.4	0.08	---	---	0.07	bd1	ndm	---	---	0.1
4	466	1530	68.1	0.22	---	---	0.11	bd1	ndm	---	---	0.2
5	534	1750	76.3	0.37	---	---	0.06	bd1	ndm	---	---	0.2
6	604	1980	33.5	0.16	---	---	0.12	bd1	ndm	---	---	0.1
7	607	1990	64.9	0.14	---	---	bd1	bd1	ndm	---	---	---
8	665	2180	83.5	0.28	---	---	bd1	bd1	ndm	---	---	---
9	713	2340	82.4	0.21	---	---	0.16	bd1	ndm	---	---	0.2
10	802	2630	80.6	0.25	---	---	0.19	bd1	ndm	---	---	0.2
11	875	2870	77.9	0.08	---	---	0.06	bd1	ndm	---	---	0.1
12	951	3120	70.7	0.13	---	---	bd1	bd1	ndm	---	---	---
13	1021	3350	76.9	0.06	---	---	0.31	bd1	ndm	---	---	0.3
14	1085	3560	74.2	0.27	---	---	0.05	bd1	ndm	---	---	0.1
15	1177	3860	75.0	0.15	---	---	0.05	bd1	ndm	---	---	0.1
16	1238	4060	83.2	bd1	---	---	0.08	bd1	ndm	---	---	0.1
17	1345	4410	65.3	0.15	---	---	0.05	bd1	ndm	---	---	0.1
18	1421	4660	78.7	0.26	---	---	0.07	bd1	ndm	---	---	0.1
19	1470	4820	58.0	0.24	---	---	bd1	bd1	ndm	---	---	---
20	1579	5180	63.4	0.62	---	---	bd1	bd1	ndm	---	---	---
21	1637	5370	65.6	0.81	---	---	0.22	0.6	ndm	0.26	74	0.8
22	1747	5730	55.0	0.28	---	---	bd1	bd1	ndm	---	---	---
23	1817	5960	62.2	0.23	---	---	bd1	bd1	ndm	---	---	---
24	1933	6340	53.7	1.66	---	---	0.87	1.4	415	0.39	83	2.2
25	1951	6400	47.8	1.21	---	---	0.62	0.6	409	0.52	46	1.2
26	997	3270	32.5	0.88	---	---	bd1	bd1	ndm	---	---	---
27	1497	4910	42.2	0.35	---	---	bd1	bd1	ndm	---	---	---
28	1955	6414	24.5	1.44	---	---	0.81	0.8	460	0.50	57	1.6
29	1957	6420	73.9	0.73	---	---	0.53	1.2	443	0.23	134	1.9

Pyrolysis run with CNS Pyroprobe and modified interface: TMAX inaccurate.

M is sample depth in meters.

FT is sample depth in feet.

ZI-C is inorganic carbon as % calcium carbonate in rock.

XO-C is organic carbon as % carbon in rock.

ZN is % nitrogen in rock.

ZH is % hydrogen in rock.

S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).

S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).

PI is production index [S1/(S1+S2)].

TMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).

'bd1' means 'below detection limit'; '---' means 'not determined'.

'ndm' means 'no definitive maximum'.

THE BROTHERS I
TBR-1

Georgia 30

24 16 w. lat.

129 20 e. long.

#	M	FT	ZI-C	ZO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	70	230	0.9	1.24	---	---	bd1	0.5	416	---	39	0.5
2	110	360	50.5	1.18	---	---	0.11	1.6	451	0.06	148	1.7
3	119	390	37.5	3.08	---	---	0.13	12.3	444	0.01	322	12.5
4	125	410	9.2	1.17	---	---	0.13	0.6	459	0.17	53	0.7
5	204	670	bd1	0.32	---	---	0.10	0.4	452	0.20	51	0.5
6	259	850	bd1	0.33	---	---	0.12	0.3	452	0.26	38	0.5
7	290	950	bd1	0.33	---	---	0.11	0.4	452	0.22	56	0.5
8	308	1010	0.7	0.64	---	---	0.19	bd1	ndm	---	---	0.3
9	341	1130	11.6	0.26	---	---	0.08	bd1	ndm	---	---	0.1
10	345	1130	0.2	1.09	---	---	0.20	0.6	459	0.24	55	0.8
11	374	1228	94.2	bd1	---	---	0.13	bd1	ndm	---	---	0.2
12	484	1588	5.1	0.19	---	---	0.12	bd1	ndm	---	---	0.2
13	431	1414	91.4	0.22	---	---	0.09	bd1	ndm	---	---	0.1
14	595	1952	2.7	0.14	---	---	0.07	bd1	ndm	---	---	0.1
15	488	1602	10.5	0.23	---	---	0.09	bd1	ndm	---	---	0.1
16	598	1961	0.6	0.31	---	---	0.02	bd1	ndm	---	---	0.1
17	734	2406	bd1	0.13	---	---	0.03	bd1	ndm	---	---	0.1
18	881	2891	46.0	1.02	---	---	0.12	bd1	ndm	---	---	0.1
19	884	2893	20.3	1.26	---	---	0.34	bd1	ndm	---	---	0.5
20	1050	3445	26.4	1.08	---	---	0.57	bd1	ndm	---	---	0.7
21	1193	3912	20.5	1.26	---	---	0.20	0.5	ndm	0.31	36	0.7
22	1196	3924	54.3	0.69	---	---	0.18	bd1	ndm	---	---	0.2
23	1271	4170	44.6	5.08	---	---	0.70	0.2	ndm	0.75	5	0.9

Pyrolysis run with CDC Pyroprobe and modified interface: TMAX inaccurate.

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