



# InfoCentre

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## NT Minerals and Energy

### ***Petroleum Exploration Reports***

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### ***InfoCentre***

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Northern Territory 0800



PR87-44

TOC and Rock-Eval

Thin section preparation 7 metals analyses

OPEN FILE

PN87/044

ONSHORE

PR87-44

TOC and ROCK-EVAL

Thin section preparation and metals analyses

This report was recieved from BMR from  
sampling from their well material in Canberra

OPEN FILE

REPORT F6742/87



PR87/044



The Australian  
Mineral Development  
Laboratories

# amdel

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In reply quote:

26 March 1987

F 3/1/6/0  
F 6742/87

CRA Exploration Pty Limited  
19 Prospect Hill Road  
CAMBERWELL VIC 3124

BRUNETTE DOWNS-1 OP 67  
MULGA-1 OP 63  
LUCY CREEK-1 OP 136

Attention: Jim Preston

REPORT F 6742/87

YOUR REFERENCE:

TITLE: TOC and Rock-Eval, thin section  
preparation and metals analyses

MATERIAL: Core chips

IDENTIFICATION:

DATE RECEIVED: 2 March 1987

WORK REQUIRED: TOC, Rock-Eval, thin section preparation  
and metals analyses

Investigation and Report by: Brian L. Watson

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KEY TO ROCK-EVAL PYROLYSIS DATA SHEET

<u>PARAMETER</u>	<u>SPECIFICITY</u>
T max	position of S <sub>2</sub> peak in temperature program (°C)
S <sub>1</sub>	kg hydrocarbons (extractable)/tonne rock
S <sub>2</sub>	kg hydrocarbons (kerogen pyrolysate)/tonne rock
S <sub>3</sub>	kg CO <sub>2</sub> (organic)/tonne rock
S <sub>1</sub> + S <sub>2</sub>	Potential Yield
PI	Production Index (S <sub>1</sub> /S <sub>1</sub> + S <sub>2</sub> )
PC	Pyrolysable Carbon (wt. percent)
TOC	Total Organic Carbon (wt. percent)
HI	Hydrogen Index (mg h'c (S <sub>2</sub> )/g TOC)
OI	Oxygen Index (mg CO <sub>2</sub> (S <sub>3</sub> )/g TOC)
	Maturity/Kerogen type
	Kerogen type/Maturity/Migrated oil
	Kerogen type/Maturity
	Kerogen type/Maturity *
	Organic richness/Kerogen type
	Maturity/Migrated Oil
	Organic richness/Kerogen type/Maturity
	Organic richness
	Kerogen type/Maturity
	Kerogen type/Maturity *

\*Also subject to interference by CO<sub>2</sub> from decomposition of carbonate minerals.

SMF11

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## ROCK EVAL PYROLYSIS

24/07/87

Client CRA EXPLORATION

DEPTH (m)	T MAX	S1	S2	S3	S1+S2	PI	S2/S3	PC	TGC	HI	DI
WELL No. 1											
474									0.07		
535									0.07		
610									0.09		
WELL No. 2											
143									0.11		
915									0.02		
<i>LUCY CR</i> WELL No. 3											
1074A	428	0.42	2.47	0.63	2.89	0.15	3.92	0.24	1.00	247	63
1074B	435	0.86	7.70	0.59	8.56	0.10	13.05	0.71	2.54	303	23
1074C	435	0.79	7.26	0.77	8.05	0.10	9.42	0.67	2.52	288	31
1073A	437	0.49	1.85	0.64	2.34	0.21	2.89	0.19	0.92	201	70
1073B	442	0.58	3.60	0.58	4.18	0.14	6.20	0.34	1.37	263	42
1073C	441	0.51	2.31	0.63	2.82	0.18	3.66	0.23	1.20	192	52
1072	440	0.66	4.35	0.58	5.01	0.13	7.50	0.41	1.39	313	42

WELL NO.1 Brunette Downs-1WELL NO.2 Mulga-1WELL NO.3 Lucy Creek-1



Analysis code A1.A2

Report AC 3097/87

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NATA Certificate

Results in ppm

<u>DEPTH (m.)</u>	B1	Pb	Zn	Cu	Ni	Co	Ag
1074 A	<10	80	315	34	26	10	1
1074 B	<10	74	19	64	56	14	1
1074 C	<10	88	13	60	56	18	1
1073 A	<10	34	13	32	26	6	<1
1073 B	<10	30	13	43	34	8	<1
1073 C	<10	24	13	36	28	8	<1
1072	<10	110	115	48	40	6	<1
Detn limit	(10)	(5)	(2)	(2)	(5)	(5)	(1)
	Mo	V	As				
1074 A	9	130	80				
1074 B	11	750	80				
1074 C	10	410	80				
1073 A	3	130	80				
1073 B	3	170	90				
1073 C	2	150	90				
1072	3	400	90				
Detn limit	(1)	(20)	(50)				

Analysis Code PM4/1

Results in  $\mu\text{g/g}$

DEPTH (m.)	Au	Pt	Pd
1074 A	<0.005	<0.005	0.005
1074 B	<0.005	<0.005	0.005
1074 C	<0.005	<0.005	<0.005
1073 A	<0.005	<0.005	<0.005
1073 B	<0.005	<0.005	<0.005
1073 C	0.045	<0.005	<0.005
1072	<0.005	<0.005	<0.005