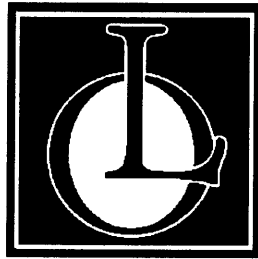




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**LAKES OIL N.L.**

ACN 004 247 214

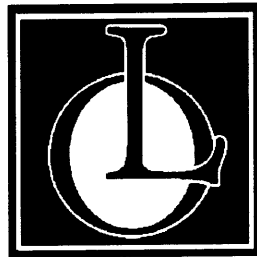
**BOUNDARY CREEK No.1  
AND  
BOUNDARY CREEK No.1A  
STRATIGRAPHIC CORE HOLE  
WELL COMPLETION REPORT**

BY

J.N. MULREADY & D.R. HORNER

LAKES OIL N.L.  
LEVEL 11,  
500 COLLINS  
STREET,  
MELBOURNE 3000  
DECEMBER, 2002

914415 002



**LAKES OIL N.L.**

ACN 004 247 214

**BOUNDARY CREEK No.1  
AND  
BOUNDARY CREEK No.1A**

**STRATIGRAPHIC CORE HOLE**

**WELL COMPLETION REPORT**

BY

J.N. MULREADY & D.R. HORNER

4 APR 2003

Petroleum Development

LAKES OIL N.L.  
LEVEL 11,  
500 COLLINS  
STREET,  
MELBOURNE 3000  
DECEMBER, 2002

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by Dr I. Duddy Geotrack International Pty Ltd
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1. Gamma Ray and CCL log from 366.5 m (T.D.) to 195m in open hole and from 195m to surface through casing.
2. Strip Log at 1: 500
3. Composite Log

# LOCATION MAP 914415 005

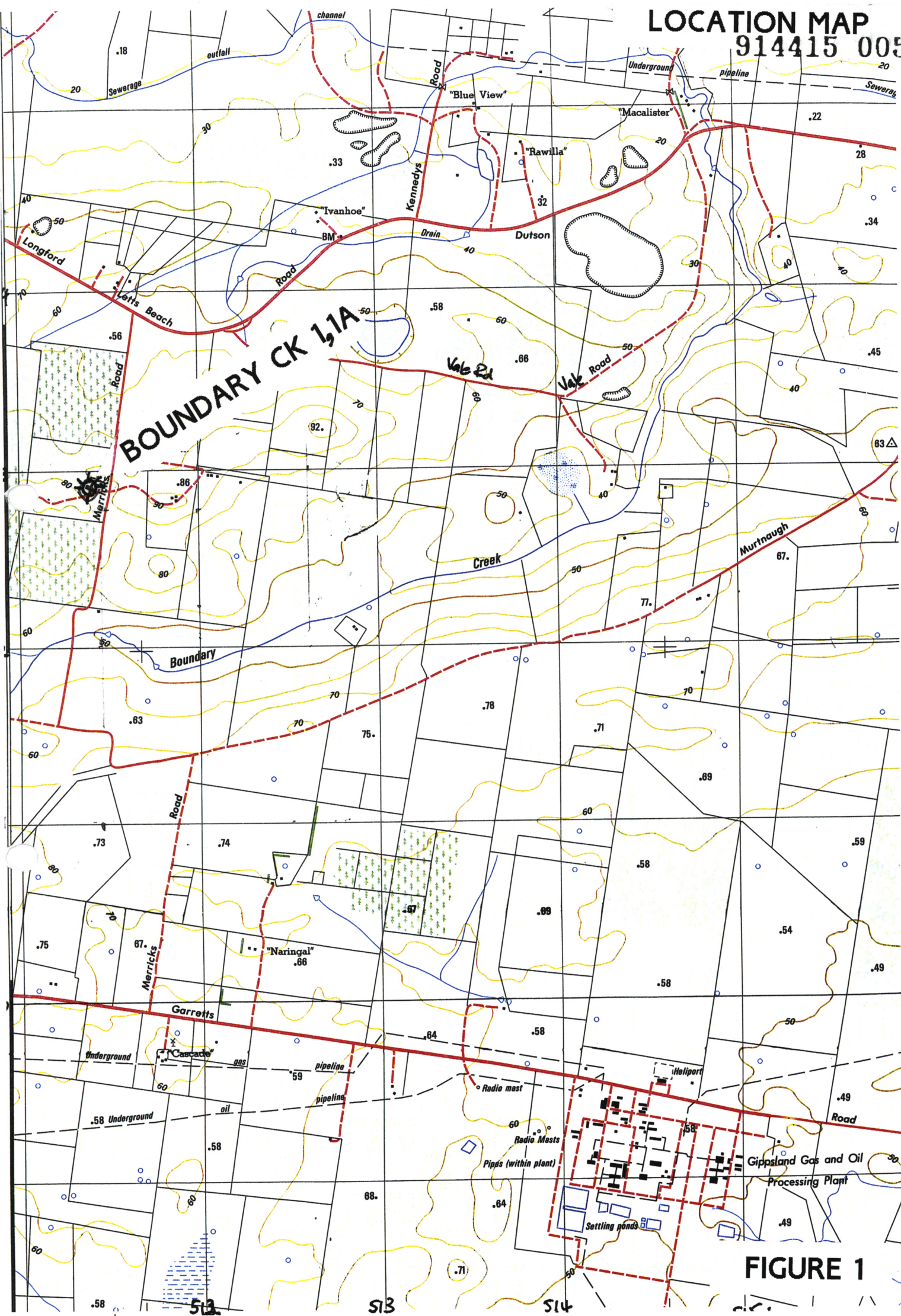


FIGURE 1

## 2.0 WELL HISTORY

### 2.1 GENERAL DATA

2.1.1 Well Name and Number	Boundary Creek No.1 & 1A
2.1.2 Location	511423 E 5772873 N
2.1.3 Elevations	G.L. 75.0 m A.S.L. R.T. 76.0 m A.S.L. Latitude: 38° 11' 30.7: S Longitude: 147° 07' 49.6: E
2.1.4 Petroleum Tenement	PEP 157
2.1.5 Name of Operator	LAKES OIL N.L. A.C.N. 004 247 214 11 <sup>TH</sup> Level, 500 Collins Street, Melbourne Vic. 3000
2.1.6 Other Participants	None.
2.1.7 Date Drilling Commenced	12 <sup>th</sup> August, 2001.
2.1.8 Date Drilling Completed	21 <sup>st</sup> September, 2001.
2.1.9 Date Rig Released	24 <sup>th</sup> September, 2001.
2.1.10 Drilling Time to T.D.	44 days.
2.1.11 Total Depth	366.5 meters.
2.1.12 Status	Plugged and Abandoned.

# Boundary Creek 1, 1A Time vs Depth

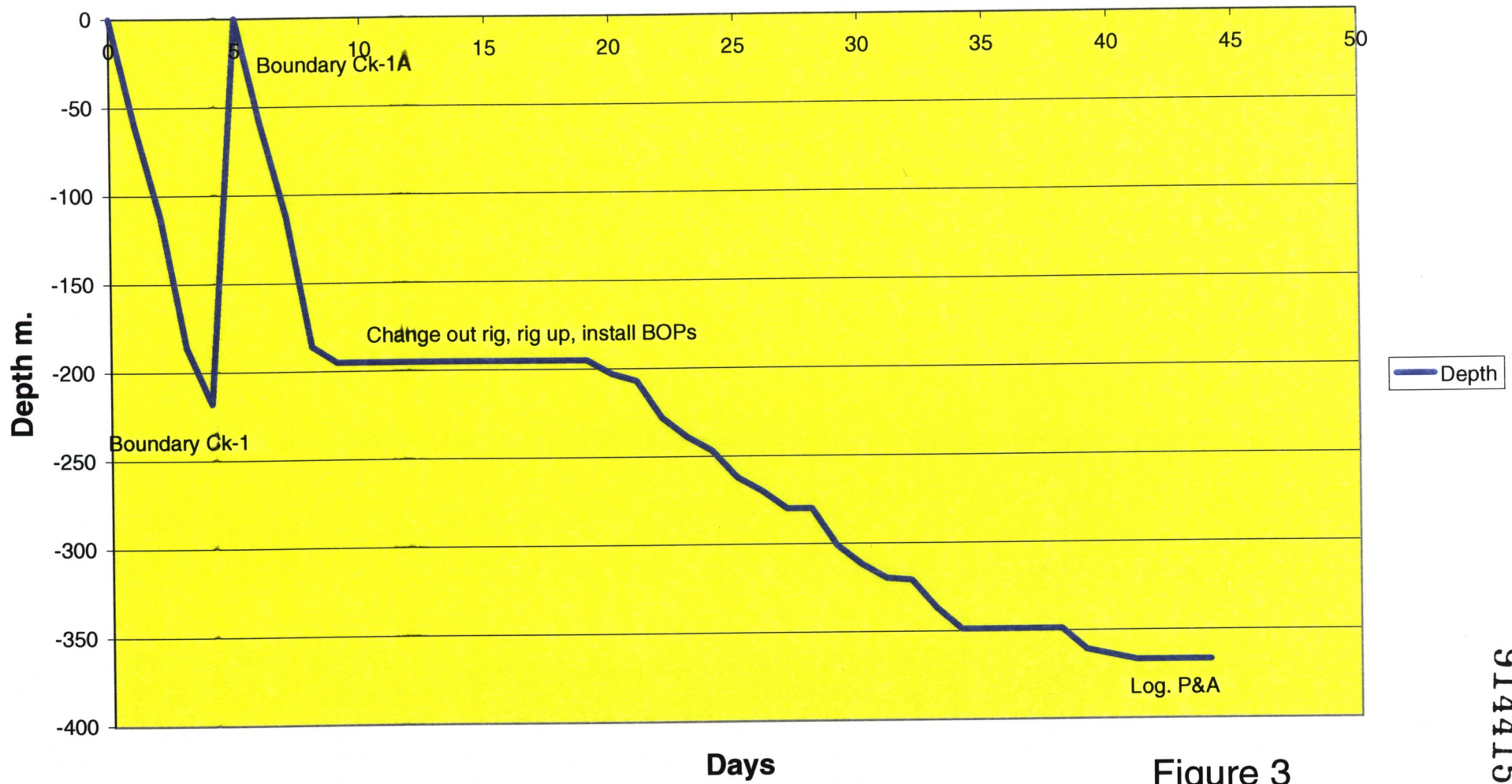


Figure 3

## 2.2 RIG DATA (Rig 1)

2.2.0	Drilling Contractor	Drilltech Pty Ltd Drilling Depot Rd Morwell Victoria 3168
2.2.1	Rig	Gardner Denver Mayhew model 1500W.
2.2.2	Rig Carrier	Truck Mounted.
2.2.3	Weight Indicator	Martin Decker Hydraulic Pressure
2.2.4	Power	Truck Engine
2.2.5	Rotary	Mayhew Model RT10.
2.2.6	Blocks	Two ST-15 single sheave 15 ton.
2.2.7	Pumps	Gardner Denver FD-FXX 5"X8".
2.2.8	Kelly	3.5" square X 26' 6".
2.2.9	Sump pump	Not applicable.
2.2.10	Transfer Pump	Not applicable.
2.2.11	Tubulars	Not applicable.
2.2.12	Fishing Tools	None on Site.
2.2.13	Handling Tools	BJ type 15W.
2.2.14	Stablizer	None used.
2.2.15	Spare Parts	As reasonably required to conduct operations for programmed well.
2.2.16	Personnel	Driller plus 2 crew.
	Rig Operated Daylight Hours Only.	



**RIG DATA (Rig 2)**

2.2.17	Rig	Bournedrill THD25VP.
2.2.18	Rig Carrier	Truck Mounted.
2.2.19	Weight Indicator	Hydraulic Pressure.
2.2.20	Power	Truck Engine.
2.2.21	Rotary	Top Drive.
2.2.22	Pumps	Duplex 5"X 6" double action.
2.2.23	Tubulars	PQ pipe
2.2.24	Fishing Tools	None on Site.
2.2.25	Handling Tools	Hydraulic 48" Rigid wrench.
2.2.26	Stabilizer	Not applicable.
2.2.27	Spare Parts	As reasonably required for carrying out the well programme.
2.2.28	Personnel	Driller plus 2 crew.
2.2.29	Rig Operated Daylight Hours Only.	

## 2.3 DRILLING DATA

2.3.1 The following is the daily operations summary for Boundary Creek No.1 & 1A. It has been compiled from the daily drilling reports. Onsite drilling supervision and wellsite geology services for Lakes Oil N.L. was provided by J. Mulready. The rig operated daylight hours only.

DATE	DRILLING OPERATIONS
12-08-2001	Set 10 inch casing at 3.5 m Drilled 9.3/8 inch hole to 60 m, set 7 inch casing at 59.75 m Drilled out cement
13-08-2001	Drilled from 60 to 112 m.
14-08-2001	Drilled from 112-132 m. POH to change bit RIH drilled from 132 to 186 m
15-08-2001	Drilled from 186 - 218 m.
16-08-2001 to 26-08-2001	Rig to redrill approx 3 m lateral offset well (Boundary Creek 1A) to depth of approx 60 metres and set 7 inch casing, then drill 6 inch hole to 195 m and set 5 inch water well casing. Gardner Denver rig will then move off location to be replaced by Bourne after BOP installed.
27-08-2001	Bourne Coring Drill on site, cellar in place, BOP partly installed. Driller ill, no progress to p.m. 27.8.01 Expect replacement driller a.m. tomorrow.
28-08-2001	Completed rigging up, including installation of BOP. Tested BOP. RIH, tagged top cement at approx 192 m.
29-08-2001	Cored out cement, cored 30 cm., then casing dropped 15 cm., indicating inadequate cement job. POH recovered 30 cm core – soft clay with boulders. Retrieved and secured casing. Re-cemented with accelerant – returns to surface.
30-08-2001	Pulled pipe free. RIH tagged cement at 180 m. Cored cement to 196.5 m. Hydraulic slips failed, rig shut down, p.m. 30.8.01
31-08-2001	Repaired rig, cored to 203 m.
01-09-2001	RIH, cored to 207.3 m. Variable recovery, between 0 and 100%. Core barrel parted, rig shut down. Replacement core barrel to be on-site tomorrow.
02-09-2001	Coring resumed 8.15 a.m. in steady rain. Cored 207.3 to 227.7 m., mostly 100% recovery.
03-09-2001	Cored 227.7 m. - 239.1 m. Gas show of 15 units, background gas 0-3 units. Dropped core barrel. Unable to latch on and retrieve. POH, changed bit, RIH retrieved most of core. Cored ahead.
04-09-2001	After experiencing circulation problems POH, circulation ports blocked. Changed bit. RIH, cored 239.1 –247 m. Gas show of 15 units whilst circulating at start up, background gas 0-3 units.
05-09-2001	RIH cored to 259

	<p>Experiencing problems with retrieving core.  Cored to 262 m.  Cable parted whilst attempting to retrieve core.  POH recovered core.  Background gas 0-3 units</p>
06-09-2001	<p>Cored to 270.2 m  Background gas 4-12 units.  Circulation gas 29 units</p>
07-09-2001	<p>Cored to 280 m  Background gas 4-12 units.</p>
08-09-2001	<p>Rig shut down for Sunday break.</p>
09-09-2001	<p>Cored to 301 metres  Background gas 2-9 units.</p>
10-09-2001	<p>Cored to 312 metres  POH to change bit.  Background gas 2-5 units.</p>
11-09-2001	<p>RIH to commence coring at 312 m  Dropped core barrel whilst trying to retrieve core from first run.  Top of barrel had unscrewed.  POH retrieved core barrel.  RIH resumed coring. Cored to 320 m.</p>
12-09-2001	<p>RIH to commence coring at 320 m  Drill string parted. POH, replaced one rod.  RIH attempted to latch on to fish. Unsuccessful. POH  RIH latched on to fish, restored circulation.  Resumed coring. Cored to 321 m.</p>
13-09-2001	<p>RIH commenced coring at 321 m.  Cored to 336.5 m at 6 p.m. 13<sup>th</sup>.  Background gas 0-2 units.</p>
14-09-2001	<p>RIH commenced coring at 336.5 mm.  Cored to 348.6 m at 6 p.m. 14<sup>th</sup>.  Background gas 0-3 units.</p>
15-09-2001	<p>RIH pipe parted.  POH attached fishing tool, RIH to retrieve fish.  POH with fish, RIH to retrieve base of last core to 348.6  POH. Pipe bent, unable to resume coring.  Rig shut down pending arrival of new pipe.</p>
16-09-2001	<p>Rig shut down pending arrival of new pipe.</p>
17-09-2001	<p>New pipe arrived on site</p>
18-09-2001	<p>RIH Wednesday 19<sup>th</sup>, restored circulation, reamed to bottom.  Maximum gas whilst reaming 31 units (0.78%).</p>
19-09-2001	<p>Cored to 361.1 m.  Gas whilst coring 1-2 units.</p>
20-09-2001	<p>RIH cored to 364.1 m  Gas 1-3 units increasing to 8 units.  POH to change bit.</p>
21-09-2001	<p>RIH with new bit, circulate bottoms up.  Two trip-gas peaks of 56 &amp; 109 units.  Mud weight 8.6 lb/gall.  Cored from 364.1 m to 366.5 m.  Hole caving. Pipe backed off, POH made up fish, RIH &amp; retrieved fish.  POH</p>
22-09-2001	<p>RIH with drill bit, circulate bottoms up, circulate hole clean.</p>

	Gas peaks of 60 units. POH. Ran Gamma Ray & CCL log. Set up to run abandonment plugs.
23-09-2001	RIH. Mixed 35 sacks of cement and 3% bentonite. Ran plug from TD across casing shoe. WOC RIH. Tagged top of cement at 220m, c.f. calculated rise to 140m. Mixed an additional 35 sacks of cement with 3% bentonite. Ran plug from 220m across casing shoe a.m. 24 <sup>th</sup> . WOC
24-09-2001	Ran surface plug. Rig released.

### 2.3.2 Hole sizes and depths:

9.375" (238mm) Spud to 60 meters.  
6" (152mm) 60 to 195 meters.  
HQ Pipe 195 to 366.5 meters.

### 2.3.3 Casing and cementing:

#### SURFACE:

SIZE:	9.625" / 244 mm
Weight:	54.5 lb/ft/79. 8 kg/m
Grade:	K55
Shoe setting depth:	59.75 m

#### INTERMEDIATE:

SIZE:	7" / 178 mm
Weight:	23 lb/ft/33.7 kg/m
Grade:	K55
Shoe setting depth:	195 m

### 2.3.4. Deviation Surveys: None taken.

### 2.3.5 Drilling Fluid:

(A) Spud - 60 meters: Type: Freshwater/Gel spud mud.

(B) 60 - 366.5 meters KCl/Polymer/PHPA.

**2.3.6 Water Supply:**

Water was trucked to site from Sale.

**2.3.7 Perforations:**

None.

**2.3.8 Plugging and Cementing:**

Plug 1.	366.5 (T.D.) to 220 m	35 sx cmt
Plug 2.	220 to < 140 m	
Plug 3	Surface plug	

## 2.4 LOGGING AND TESTING

2.4.1 Wellsite Geologist:  
J. Mulready.

2.4.2 Mudlogging:  
Hot wire hydrocarbon detection, depth and drill rate monitoring were provided by Denis Sisely.

2.4.3 Ditch Cutting Samples:  
Cuttings were collected at 3 meter intervals from spud to 218m (Boundary Creek No.1). These being 1 set 500 gm unwashed calico bag, and 1 set washed samplex tray. Unwashed cutting samples were submitted to the DNRE Core Store at Werribee.

2.4.4 Coring: (Boundary Creek No. 1A)  
Continuous core was taken from 195 meters to 366.5 meters (T.D.).

2.4.5 Sidewall Cores:  
None taken.

2.4.6 Testing:  
No tests were conducted.

2.4.7 Wireline Logs:  
A Gamma Ray and CCL log was run from 366.5 m (T.D.) to 195m in open hole and from 195m to surface through casing.

2.4.8 Velocity Survey:  
No velocity survey was conducted.

914415 025



CORE ANALYSES



914415 026

**CORE LABORATORIES AUSTRALIA PTY. LTD.**

ACN 065 540 838 ABN 67 065 540 838  
P.O Box 785 Cloverdale, WA 6105 Australia

Tel : (61-8) 9353 3944 Fax : (61-8) 9353 1389 Email : darryl@corelab.com.au

**TO : LAKES OIL**  
**ATTN : JACK MULREADY**  
**FAX : (03) 9629 1624**                      **DATE : 27 September 2001**  
**PAGES : 5**                      (including cover page)                      **COPY :**

**FROM : DARRYL BEER**  
**SUBJECT : BOUNDARY CREEK 1A PLUGS**

---

Jack,

Please find attached the preliminary porosity, permeability and grain density data for the majority of the Boundary Creek #1A plugs. I have also attached a porosity versus permeability cross-plot that Dennis said you may be interested in.

Now that analyses are complete, please advise if you want the plugs returned, and the delivery address you want them sent to.

Please contact us if you have any queries, or require further information.

Best regards,

A handwritten signature in cursive script that reads 'Darryl'.



**POROSITY, PERMEABILITY AND GRAIN DENSITY  
(Ambient)**

SAMPLE NUMBER	DEPTH (m)	800psig NOB PRESSURE			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY (%)		
		Kinf (md)	Kair (md)			
1	210.60	80.1	88.2	30.7	2.56	
2	214.20	154	165	26.4	2.64	
3	218.30	137	148	26.5	2.63	
4	220.90	88.2	98.1	28.0	2.66	
5	224.60	57.0	62.4	28.0	2.63	
6	224.90	95.0	102	29.6	2.64	
7	227.10	838	† 886 †	29.7	2.67	
8	227.65	448	461	28.6	2.67	
9	231.85	688	704	27.5	2.66	
10	233.60	602	616	30.9	2.65	
11	234.30	701	723	30.5	2.66	
12	234.65	711	740	30.2	2.65	
13	236.30	208	248	32.4	2.67	fractured
63	243.90	15.3	18.4	35.1	2.68	
14	245.05	5.00	6.58	33.3	2.68	
15	245.35	11.1	13.9	34.9	2.67	
16	252.25	0.733	1.05	30.6	2.68	
17	254.25	101	106	29.6	2.66	
18	255.15	55.2	59.4	28.2	2.65	
19	256.90	4.46	5.47	25.0	2.63	
20	259.20	95.3	99.4	27.0	2.69	
21	259.77	43.6	47.1	27.5	2.63	
22	260.55	33.0	36.5	26.7	2.62	
23	262.10	10.3	11.9	25.8	2.60	
24	262.55	63.0	67.9	27.1	2.63	
25	264.55	94.4	102	28.7	2.62	
26	265.45	136	147	30.6	2.64	
27	268.66	16.8	19.3	27.2	2.63	
28	269.60	36.8	40.2	22.9	2.65	
29	272.40	8.60	10.2	27.5	2.64	
30	278.20	13.8	14.9	28.2	2.64	
31	279.55	43.6	47.9	29.1	2.63	
32	281.25	41.3	44.9	27.8	2.64	

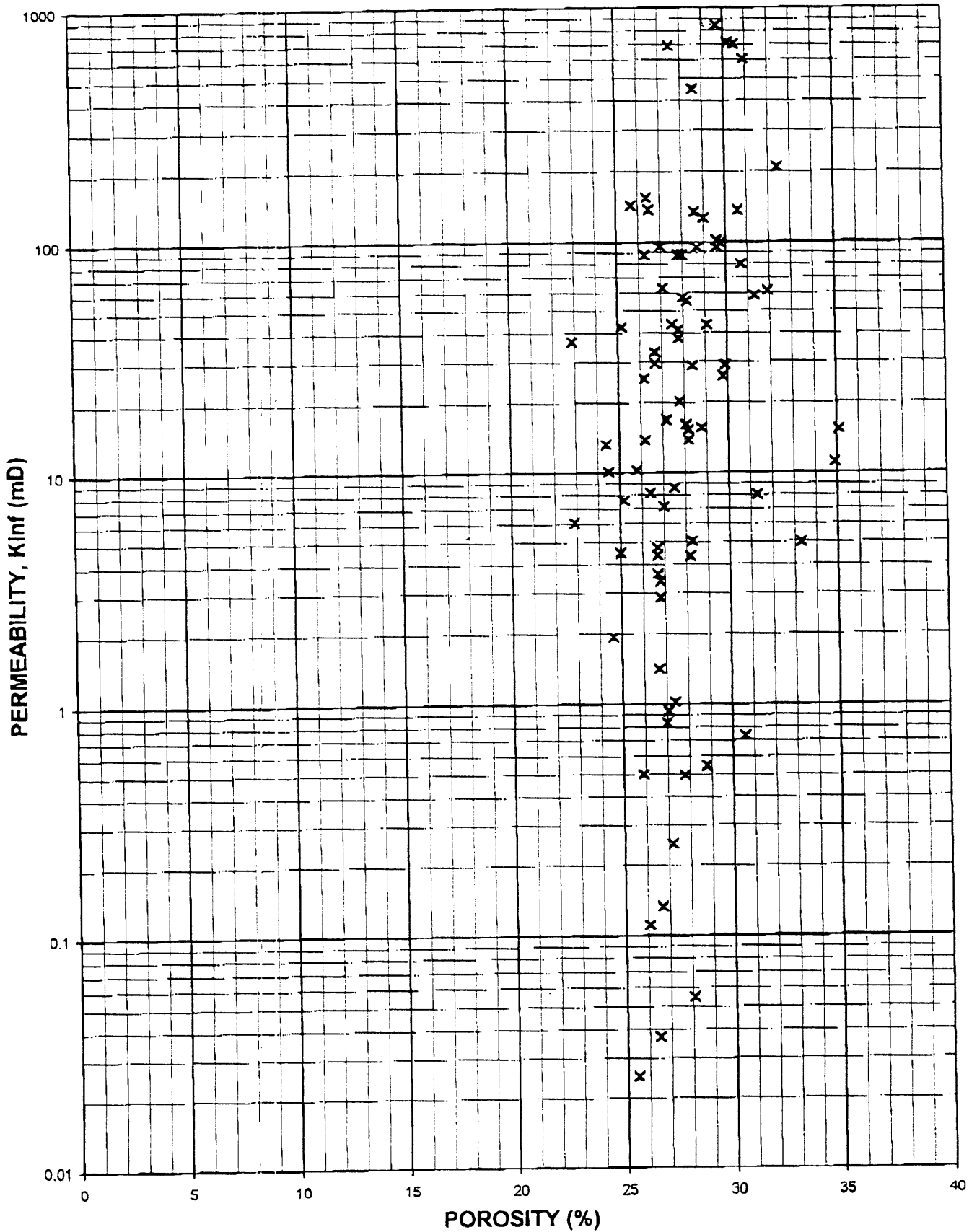
**POROSITY, PERMEABILITY AND GRAIN DENSITY  
(Ambient)**

SAMPLE NUMBER	DEPTH (m)	800psig NOB PRESSURE			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY (%)		
		Kinf (md)	Kair (md)			
33	282.20	99.1	106	29.8	2.64	
34	283.90	26.0	29.0	29.8	2.66	
35	285.25	61.1	65.6	31.9	2.67	
36	297.86	0.936	1.20	27.1	2.64	
37	298.74	15.6	17.6	28.8	2.64	
38	299.76	16.1	18.4	28.1	2.64	
39	301.18	7.12	8.15	27.0	2.65	
40	303.55	0.055	0.085	28.1	2.70	
41	305.85	0.111	0.161	26.1	2.66	
42	308.85	4.72	5.79	26.7	2.62	
43	310.04	0.831	0.988	27.0	2.66	
44	311.38	29.5	31.8	26.7	2.63	
45	313.03	0.497	0.563	27.8	2.70	
46	315.03	5.03	5.58	28.3	2.67	
47	316.55	8.13	8.56	26.4	2.66	
48	318.55	6.09	7.29	22.9	2.58	
49	319.03	0.025	0.039	25.5	2.65	
50	320.54	0.037	0.055	26.5	2.66	
51	326.40	0.544	0.704	28.8	2.67	
52	327.28	0.133	0.185	26.7	2.65	
53	328.29	4.33	4.82	28.2	2.73	
54	328.88	13.2	14.9	24.4	2.59	
55	329.40	3.36	3.92	26.8	2.66	
56	331.10	25.3	28.0	26.2	2.64	
64	331.72	88.1	92.8	27.8	2.67	
57	331.93	13.8	15.2	26.2	2.65	
58	333.20	1.42	1.78	26.7	2.65	
59	333.81	2.86	3.43	26.8	2.66	
60	336.15	1.94	2.44	24.6	2.66	
61	338.13	10.1	10.7	24.5	2.66	
65	338.82	143	168	25.7	2.54	
62	340.03	7.58	8.15	25.2	2.69	
66	341.23	42.6	47.0	25.2	2.67	not cylindrical

**POROSITY, PERMEABILITY AND GRAIN DENSITY  
(Ambient)**

SAMPLE NUMBER	DEPTH (m)	800psig NOB PRESSURE			GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY		POROSITY (%)		
		Kinf (md)	Kair (md)			
67	342.02	0.501	0.661	25.9	2.67	
68	342.95	4.37	5.09	26.7	2.70	
69	344.90	28.8	30.4	28.4	2.68	
70	345.41	37.9	40.2	27.8	2.68	
71	346.15	20.2	22.0	27.8	2.68	
72	348.30	3.61	4.12	26.7	2.70	
73	352.10	0.248	0.354	27.2	2.68	
74	353.30	15.3	17.0	28.2	2.70	
75	353.84	1.02	1.33	27.4	2.70	
76	356.05	88.2	92.4	26.3	2.66	
77	357.10	134	139	28.6	2.69	
78	357.87	126	133	29.0	2.70	
79	358.71	29.1	30.9	29.9	2.78	
80	361.90	58.3	63.6	31.3	2.68	
81	362.89	8.01	9.74	31.3	2.68	

### POROSITY VS PERMEABILITY (AT AMBIENT)



PETROGRAPHY AND MATURITY  
STUDY

# Boundary Creek-1 well, Gippsland Basin

*A petrographic and maturity study of Strzelecki Group samples*

## Geotrack Report #825



**An exclusive report prepared for  
Lakes Oil N.L.**

Report prepared by: I. R. Duddy  
Vitrinite Reflectance: Dr. Alan. C. Cook

**FINAL REPORT  
April 2002**



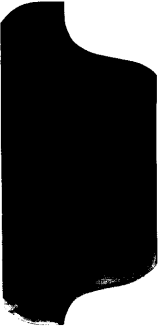
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914415 078

PALYNOLOGICAL REPORT





914415 079

**Palynological analysis of  
two composite cuttings samples  
from Boundary Creek No.1,  
onshore Gippsland Basin.**

by

**Alan D. Partridge**

**Biostrata Pty Ltd**

A.B.N. 39 053 800 945

**Biostrata Report 2001/29**

**18<sup>th</sup> September 2001**

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Table 3. Tertiary species list for Boundary Creek No.1.

	Sample Type:	Composite Cuttings	Composite Cuttings
	Depth:	204–210m	210–216m
<b>SPORES-POLLEN</b>			
<i>Baculatisporites</i> spp.			0.9%
<i>Clavifera triplex</i>			X
<i>Conbaculites apiculatus</i> †			X
<i>Cyathidites paleospora</i>			0.9%
<i>Dicotetradites clavatus</i>			X
<i>Dilwynites granulatus</i>		X	
<i>Gleicheniidites circinidites</i>			X
<i>Haloragacidites harrisii</i>			6.3%
<i>Ischyosporites irregularis</i> †			X
<i>Liliacidites</i> sp.		X	
<i>Lygistepollenites balmei</i>		X	
<i>Lygistepollenites florinii</i>		X	2.7%
<i>Malvacipollis subtilis</i>			3.6%
<i>Microcachrydites antarcticus</i>			1.8%
<i>Nothofagidites brachyspinulosus</i>		X	1.8%
<i>Nothofagidites deminutus</i>			3.6%
<i>Nothofagidites emarcidus/heterus</i>			20.5%
<i>Nothofagidites goniatius</i>			X
<i>Parvisaccites catastus</i>			X
<i>Periporopollenites polyoratus</i>		X	
<i>Phyllocladidites mawsonii</i>			34.8%
<i>Podocarpidites</i> spp.			7.1%
<i>Proteacidites adenanthoides</i>			X
<i>Proteacidites annularis</i>			2.7%
<i>Proteacidites crassus</i>			X
<i>Proteacidites obscurus</i>			0.9%
<i>Proteacidites reticulatus</i>			X
<i>Proteacidites</i> spp.		X	3.6%
<i>Rugulatisporites mallatus</i>		X	
<i>Sapotaceoidaepollenites rotundus</i>			X
<i>Stereisporites australis</i>			0.9%
<i>Tricolp(or)ates</i> spp.		X	8.0%
<i>Tricolpites simatus</i>			X
<i>Tricolporites adelaidensis</i>			X
<i>Tricolporites leuros</i>			X
<i>Tricolporites paenestriatus</i>			X
<i>Tripoporopollenites ambiguus</i>			X
<i>Verrucosisporites kopukuensis</i>			X
Total spores:			2.7%
Total Gymnosperms:			46.4%
Total Angiosperms:			50.9%
<b>Total Spore-Pollen Count:</b>			<b>112</b>

Table 4. Early Cretaceous species list for Boundary Creek No.1.

	Sample Type:	Composite Cuttings	Composite Cuttings
	Depth:	204-210m	210-216m
<b>SPORE-POLLEN</b>			
<i>Aequitriradites spinulosus</i>		X	
<i>Araucariacites australis</i>		4.3%	
<i>Arcellites reticulatus</i>			X
<i>Baculatisporites</i> spp.		1.7%	
<i>Ceratosporites equalis</i>		0.9%	X
<i>Coptospora paradoxa</i>		X	
<i>Corollina torosa</i>		0.9%	
<i>Crybelosporites striatus</i>		X	X
<i>Cyathidites australis</i>		0.9%	X
<i>Cyathidites minor</i>		9.6%	X
<i>Cycadopites nitidus</i>		X	
<i>Dictyophyllidites</i> spp.		0.9%	
<i>Dictyotosporites complex</i>			X
<i>Foraminisporis asymmetricus</i>			X
<i>Gleicheniidites circinidites</i>		2.6%	
<i>Laevigatosporites ovatus</i>		X	
<i>Microcachryidites antarcticus</i>		14.8%	X
<i>Nevesisporites dailyi</i>			X
<i>Osmundacidites wellmanii</i>		11.3%	X
<i>Perotriletes majus</i>		0.9%	
<i>Podocarpidites</i> spp.		35.7%	X
<i>Reticulatisporites pudens</i>		2.6%	
<i>Retitriletes</i> spp.		1.7%	X
<i>Retitriletes austroclavatidites</i>		X	
<i>Retitriletes eminulus</i>		X	
<i>Retitriletes facetus</i>		X	
<i>Retitriletes nodosus</i>		X	
<i>Ruffordiaspora australiensis</i>		1.7%	X
<i>Stereisporites antiquisporites</i>		2.6%	X
<i>Trichotomosulcites subgranulatus</i>		1.7%	
Trilete spores undiff.		5.2%	
<i>Triporoletes reticulatus</i>		X	
Total Spores:		43%	
Total Gymnosperms:		5%	
<b>Total Spore-Pollen Count:</b>		<b>115</b>	
<b>Other Palynomorphs</b>			
Fungal spores and hyphae		6.4%	
<i>Sigmopollis carbonis</i>		X	
<b>Reworked Fossils</b>		1.6%	
<i>Annulispora microannulata</i>		X	
<i>Aratrisporites</i> spp.		X	
<i>Horriditriletes ramosa</i>		X	X
<i>Microbaculispora</i> sp.		X	
<b>TOTAL PALYNOMORPH COUNT:</b>		<b>125</b>	

914415 036

**Palynological analysis of bottom hole sample  
from Boundary Creek No.1A,  
onshore Gippsland Basin.**

by

**Alan D. Partridge**

**Biostrata Pty Ltd**

A.B.N. 39 053 800 945

**Biostrata Report 2001/30**

**16<sup>th</sup> November 2001**

Table 1. Species list for Boundary Creek No.1A.

Sample Type:	Cuttings
Depth:	324m
<b>Spore-Pollen</b>	
<i>Baculatisporites</i> spp.	2.4%
<i>Ceratosporites equalis</i>	X
<i>Cicatricosisporites hughesii</i>	1.8%
<i>Corollina torosa</i>	1.8%
<i>Cyathidites australis</i>	4.7%
<i>Cyathidites minor</i>	61.8%
<i>Dictyophyllidites</i> spp.	X
<i>Gleicheniidites circinidites</i>	0.6%
<i>Laevigatosporites ovatus</i>	X
<i>Matonisporites cooksoniae</i>	X
<i>Microcachryidites antarcticus</i>	0.6%
<i>Neoraistrickia truncata</i>	X
<i>Nevesisporites dailyi</i>	X
<i>Osmundacidites wellmanii</i>	3.5%
<i>Podocarpidites</i> spp.	2.9%
<i>Polycingulatisporites clavus</i>	X
<i>Retitriletes</i> spp.	4.1%
<i>Retitriletes austroclavatidites</i>	X
<i>Retitriletes eminulus</i>	cf.
<i>Retitriletes facetus</i>	cf.
<i>Ruffordiaspora australiensis</i>	8.8%
<i>Stereisporites antiquisporites</i>	5.3%
<i>Stereisporites pocockii</i>	X
<i>Trichotomosulcites subgranulatus</i>	1.7%
<i>Tricolpites</i> sp.	?
Trilete spores undiff.	2.4%
Total Spores:	93.5%
Total Gymnosperms:	6.5%
<b>Total Spore-Pollen Count:</b>	170
<b>Other Palynomorphs</b>	
Fungal spores and hyphae	X
<i>Brazilea parva</i>	X
<i>Sigmopollis carbonis</i>	X
<i>Sigmopollis hispidus</i>	X

X = Present

914415 090

SITE SURVEY



# KLUGE JACKSON CONSULTANTS PTY. LTD.

A.C.N. 004 778 947

SURVEYORS, ENGINEERS AND ESTATE PLANNERS

914415 091

Office: Sale  
Our Ref: 02191-01

DIRECTORS:  
H. Peter Kluge  
John Jackson

September 10<sup>th</sup>, 2002

Mr. J. Mulready,  
Lakes Oil N.L.  
Level 11, 500 Collins St,  
Melbourne, Vic., 3000

Dear Sir,

RE: AMG and AHD Survey of Wells at Boundary Creek-1,  
Deadman Hill-1 and Protea-1.

We have now completed the above survey and enclose our results.

The table of results shows the co-ordinates to the centre of the sign of the well head.

The levels are as indicated on sketch attached – Levels to the top of cap could not be taken at Boundary Creek and Protea as they were covered at time of survey.

Our AMG co-ordinates have been obtained from co-ordinated marks PM 18, PM 27 (Longford) and 3GI Radio Mast. The AMG co-ordinates are unadjusted using Topcon Total Station and should be of an accuracy of  $\pm 10$ cm. Latitude and Longitude have been obtained by converting AMG co-ordinates to latitude and longitude.

The AHD levels were obtained from PM 33 and are correct to  $\pm 0.05$  cm.

If you have any queries in the matter please contact the writer.

We thank you for your instructions and enclose our account.

Yours faithfully,  
KLUGE JACKSON CONSULTANTS PTY., LTD.,



PETER KLUGE.  
enc.

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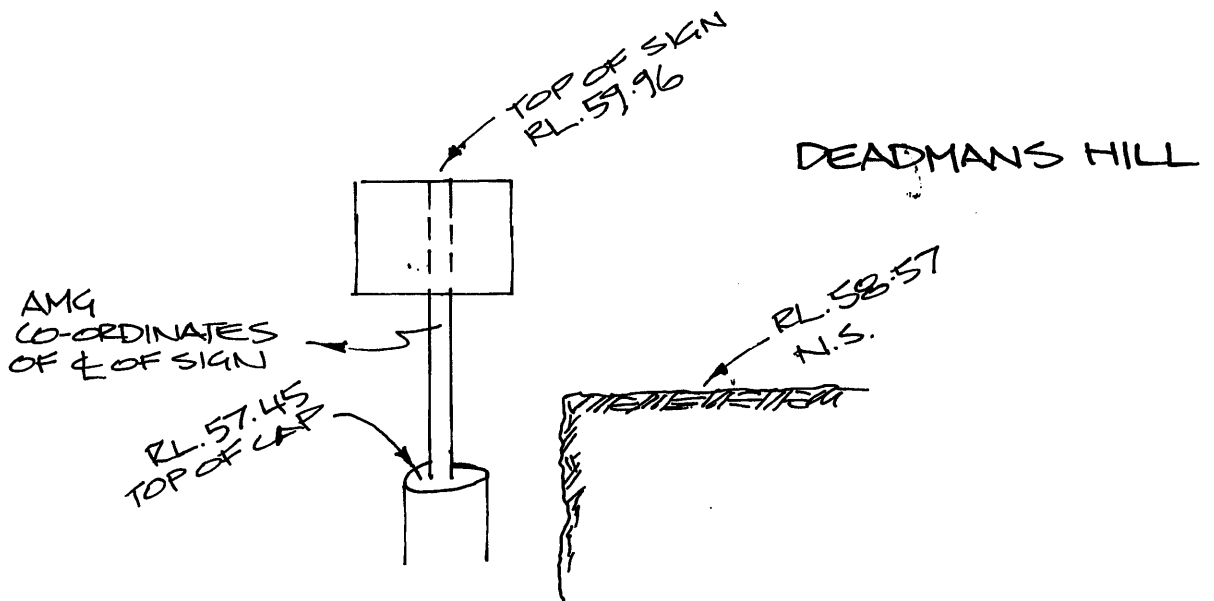
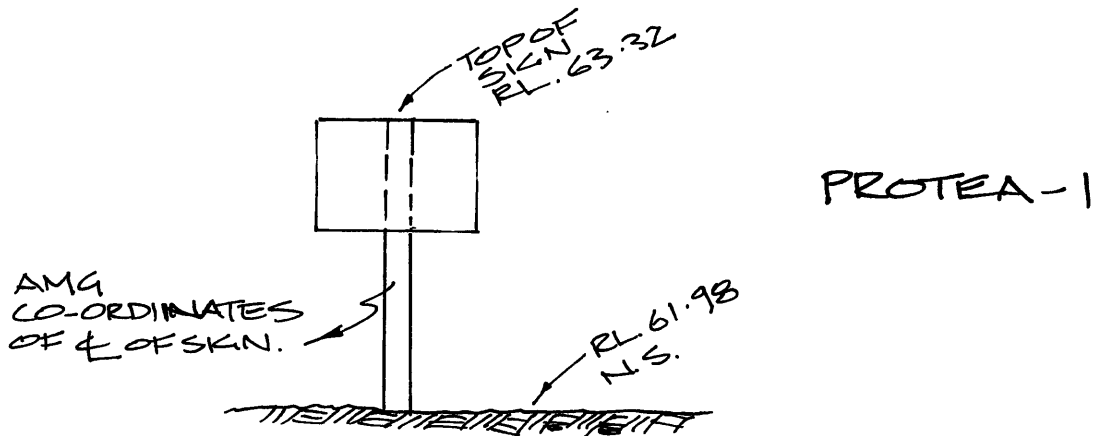
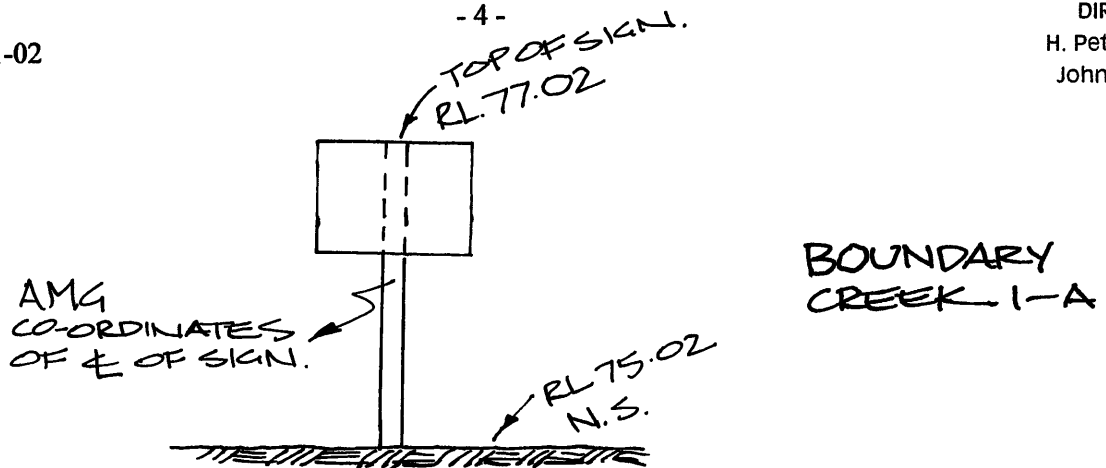
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- 4 -



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SURVEYORS, ENGINEERS AND ESTATE PLANNERS

914415 093

Office: Sale  
Our Ref: 02191-02

- 2 -

DIRECTORS:  
H. Peter Kluge  
John Jackson

September 10<sup>th</sup>, 2002

## TABLE OF SURVEY RESULTS

### Boundary Creek - 1

<b>AHD Level of Top of Sign</b>	77.02
<b>AMG Co-ordinate of Centre of sign.</b>	Easting 511 422.91 Northing 5 772 873.47
<b>Latitude</b>	S 38°11'30.73"
<b>Longitude</b>	E 147°07'49.60"
<b>Approximate AHD surface Level at Bore</b>	75.02

The AMG coordinates shown above are for Zone 55.

Coordinates are in AGD 66.

.../3

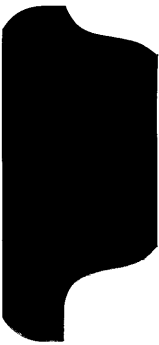
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CUTTING DESCRIPTIONS



# LAKES OIL NL

## Boundary Creek Stratigraphic Corehole

### Cuttings Descriptions

Depth Interval m	Description
3	SANDSTONE: wht-clr-pl yell, vcg, occ pebbly, unconsol. qtz grns, minor wht cly matrix, subang-rd.
6	SST: a/a yell-pale brn qtz grains
9	SST: wht-clr-pl yell brn loose qtz grns, vcg-occ pebbly, sang rd, v.minor cly mtx adhering to grns
12	SST: a/a with common aggs of lt-med org-brn sst, vfg, well cmted, possibly calc.
15	SST: a/a v.mnr aggrgs. With thin bands wht-lt gy cly, soft, sticky.
18	SST: wht-clr, mnr pale brn, loose qtz grns, vcg-granular, occ. Pebbly, sang-rd, mnr wht cly mtx adhering to grns, occ lamination of soft wht kaolin.
21	SST: a/a
24	SST: a/a
27	SST: a/a mg, increased wht kaolin.
30	80% SST: dom clr, f-mg rare cg & pebbly, unconsol. qtz grns with suspected arg matx. 10% CLY: yellowish brn, soft 10% COAL: brn, soft, dull.
33	COAL: brn, soft-firm, sub-fissile silty, scattered mnr qtz grns f-mg
36	COAL: a/a mnr wht cly incl.
39	COAL: brn, soft-firm, slty, subfissile, with mnr wht arg content.
42	COAL: a/a rare blocky
45	COAL: a/a
48	COAL: a/a
51	COAL: a/a
54	COAL: a/a rare pyr.
57	COAL: a/a becoming very silty
60	SST: wht, clr, occ milky, translucent, c-vcg, well sorted, sang-srded, loose qtz grns, rare wht cly adhering to grns, clean Tr Coal: brn, firm, sl pyr, silty. <7 inch casing point>
63	SST: wht-clr, c-vcg, pebbly, clean srded loose qtz grns.
66	SST: a/a
69	SST: a/a but pred vcg-pebbly. Common tr. pyr.
72	SST: vcg-pebbly a/a Tr pyr.
75	20% SST: wht-clr loose qtz grns a/a 80% SST: wh-lt gy, vf-fg sang, kaol mtx, poor vis. por. tr coal
78	80% SST: wht-clr cg-pebbly as loose qtz grns srd 20% SST: wht-lt gy vfg-fg a/a Tr SLTST, gy arg.sdy
81	SST: wht-clr, cg-pebbly srded loose qtz grns

# LAKES OIL NL

## Boundary Creek Stratigraphic Corehole

### Cuttings Descriptions

84	SST: a/a
87	90% SST wht-clr & gy, cg-coarse pebbles, srded loose qtz rns 10% cly, gy-brn, soft, sticky
90	SST: wht-clr & gy, m-cg loose qtz grns, qtz pebbles, srded
93	SST: wht-clr, cg-pebbly srded loose qtz grns
96	SILTST: gy-dk gy, soft, arg.
99	SST: wht-clr, cg-pebbly srded loose qtz grns Tr red staining
102	SST: wht-clr, c-vcg srded loose qtz grns
105	SST: wht-clr, cg-pebbly srded loose qtz grns
108	50% SST: a/a 50% CLAYST: 50% cST: wh-lt gy, soft, argill.
111	CLAYST: a/a
114	SST: wht-clr, translucent, some lt gy sang-srd c-vcg-granular loose qtz grns, rare pyr and carb frags
117	SST: a/a
120	Sst: wht-clr, lt gy, med-vcg, occ pebbly sang-srded loose qtz grns
123	40% SST: a/a 60% CLYST:, lt brn-wht, lt gy, soft, kaol, tr coal.
126	20% SST: a/a 80% CLYST a/a common tr. pyr.
129	90% SST: a/a 10% CLYST a/a
132	60% SST: a/a 40% CLYST a/a tr. coal
135	SST: wh-lt gy, pred cg to occ vcg srd well std loose qtz grns
138	SST: wh-lt gy, pred c-vcg & pebbly, srd loose qtz grns
141	SST: a/a Tr coal
144	90% SST: wht-clr, c-vcg, pred. pebbly srded loose qtz gns. 10% COAL: blk, firm. Tr lt brn soft clay
147	SST: wht-clr, c-vcg well sort srd loose qtz grns Comm tr cly a/a
150	SST: wht-clr, occ gy, c-vcg, pred. pebbly srded loose qtz gns.
153	SST: a/a
156	SST: a/a
159	SST: wht-clr, occ gy, c-vcg, occ pebbly srded loose qtz gns.
162	SST: a/a
165	SST: a/a
168	SST: wht-clr, occ gy, c-vcg, pred. pebbly srded loose qtz gns.
171	SST: wht-clr, occ gy, c-vcg, occ pebbly srded loose qtz gns.
174	90% CLAYST: lt brn, soft, arg. 10% SST: as loose srd qtz pebbles
177	SST: wht-clr, c-vcg, well sort srd loose qtz grns
180	SST: a/a



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CORE DESCRIPTIONS



**LAKES OIL NL**  
**BOUNDARY CREEK 1A COREHOLE**

**Core Descriptions**

196.0-196.4 m (0.4 m)

Clay with conglomeratic qtz pebble bands.

Clay is lt gy, soft, plastic. Qtz pebbles are gy & milky, subrded. Pebbles and fragments range to 50 mm.

196.4-202.95 m (6.55 m)

Light grey argillaceous sandstone and sandy claystone with interbeds of conglomeratic quartz pebbles.

Sandstone is light grey, fine grained, subangular, well sorted, sl. micaceous, carbonaceous with frequent carbonaceous partings, argillaceous grading to sandy claystone.

Dip approx. 25 deg.

Pebbles and pebble fragments are quartzose, lt gy & milky, sub-rounded, up to 50 mm.

Background gas 0-3 units.

Thin interbed 197.3-197.38m of sst, lt gy, fg-vcg -gravel, poorly sorted, srdded to rdded qtz, comm. felspar in arg. matx. Good visual porosity.

202.95- 204.4 m ? (partial recovery) (1.45 m)

Interbeds of lt gy fg sandstone light grey, fine grained, subangular, well sorted, sl. micaceous, weathered felspar, carbonaceous with frequent carbonaceous laminations, argillaceous, and lt-md gy claystone, soft, plastic, sl mic., pyritic with nodule bands throughout, esp 203.9, 204.2 m

Dip 20-25 deg. Background gas 0-3 units.

204.4-207.27 m (2.87 m)

Claystone, lt-md gy, soft, plastic, pyritic. Frequent pyrite nodules.

80 degree fracture in claystone with slickenslides at 205.5m.

Dip approx. 20 deg.

Background gas 0-3 units

207.27-207.65 m (0.38 m)

Sandstone soft, lt gy, fg, well sorted, subrded, mic, pyritic, carb. consisting of lt gy felspar qand med gy tz in an argillaceous (kaol?) matrix.

Background gas 0-4 units

207.65 - 214.70 m (7.05 m)

Sandstone: lt-md gy, fg, well sorted, subrded cons. of qtz, fensp. mica and coal frags in an arg matx. Common carbonaceous bands and laminations, tr pyr.

Dip varies 0-25 deg with marked changes in azimuth.

Vertical to sub vertical white striations of indeterminate soft white mineral. Origin uncertain - possible dewatering structure.

Also sub-horizontal fractures with slickenslides.

Background gas 1-2 units

214.70 - 214.82 m (0.82 m)

Sandstone: lt brn-fawn, fg, well sorted, subrded, cons. of qtz, fensp. mica in an arg. tuffaceous? matx.

Dip 0-12 deg



Background gas 1-2 units

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214.82 – 233.10 m (18.28m)

Sandstone: lt-med gy f-mg well sorted, subrded cons. of qtz, fclsp. mica and coal frags in an arg matx. Tr pyr. Common white subvertical striations a/a and from 222.0 – 226.65 m common sub-vertical fracturing (80 deg.). Clasts of shale at 221.75

Background gas 1-2 units, peak of 15 units at 230 m

Dip 0-12 deg

Background gas 2-5 units, peak of 11 units at 235-236 m

233.1 – 236.65 m (3.55 m)

Sandstone: lt-md gy, mg, subang-srded, cons of lt gy and clr qtz and wh fclsp in a sparse arg matx. Mic., carb., **good visual porosity**. Band of fissile v. carb sst lt-med gy f-mg well sorted, subrded cons. of qtz, fclsp. mica and abundant coal frags in an arg matx. from 233.8-233.9 m. Prob. good por. Hydrocarbon odour noted when core freshly broken.

Dip 0-12 deg

Background gas 2-5 units, peak of 11 units at 235-236 m

236.65 – 243.70 m (7.05 m)

Shale: lt-md-dk gy, firm, carb-v.carb. in part, mic. With thin interbeds of lbrn-cream tuff? & Occ. sst interlaminations lt-md gy, fg, well sorted, subrded cons. of qtz, fclsp. mica and coal frags in an arg matx. Tight.

Dip 0-12 deg

Background gas 2-5 units, peak of 10 units at 240 m

Also 15 units of overnight gas.

243.7 - 245.45 m (1.75 m)

Sandstone: lt-md gy, consisting of fg, sang wh fclsp, gy qtz, mica and carb. frags in an argillaceous matrix. Good visual porosity.

Background gas 0-3 units.

Dip 0-12 deg

Background gas 2-3 units.

245.45 – 252.13 (6.68 m)

Finely interbedded and interlaminated sandstone and shale

Sandstone is lt-md gy, firm, cos. of vf-fg sang fclsp, quartz in an arg. matrix. Tight.

Shale: gy, firm, sdy grading to vfg sst. a/a

Dip 0-12 deg

Background gas 2-4 units.

252.13 – 265.5 m (13.37 m)

Sandstone: lt-md gy, consisting of f-mg, sang wh fclsp, gy qtz, mica and carb. frags in an argillaceous matrix. Matrix more sparse in part, but still appears tight.

Dip 0-12 deg. High angle fracture at 263.5 m

Background gas 2-4 units

265.5 – 268.6 (3.1 m)

Shale: gry, firm, common partings with shiny slickensides, silty, sdy in part with nterlaminations of sandstone, lt gy, vf-fg, well sorted, subrded, cons of wh fclsp. Gy qtz, mica and common coal frags in an arg. matx. Tight. Dip 0-25 deg.

Background gas 2-4 units.

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268.6 – 272.8 m (4.2 m)

Sandstone: lt gy, carb. f-mg, well sorted, sang-srded, cons of felsp. Lt gy qtz, mica and abdt coaly frags in an arg. matx. Tight.

Dip 0-10 deg

Background gas 2-4 units.

272.8 – 276.8 m (4.0 m)

Shale: gry, firm, sl mic. common partings with shiny slickenslides, silty, sdy in part with interlaminations of sandstone, lt gy, vf-fg, well sorted, subrded, cons of wh felsp. Gy qtz, mica and common coal frags in an arg. matx.

Dip 20 deg.

Background gas 2-4 units.

276.8 – 285.41 m (8.61 m)

Sandstone: lt gy, carb. f-mg, well sorted, sang-srded, cons of felsp. Lt gy qtz, mica and abdt coaly frags in an arg. matx. Poor - fair visual porosity throughout.

Dip 25 Deg.

Background gas 2-5 units

285.41- 296.55 m (11.14 m)

Shale: lt gy silty-sandy, sl mic., sl carb. with interlaminations of sst. a/a  
Thin very carb band at 292.5 with coaly laminations. Coal is black, earthy.

Dip 0-20 deg.

Background gas 4-10 units

296.55 – 316.6 m (20.05 m)

Sandstone: lt gy, silty at top but pred. lt gy, mg, well sort, sang-srded, cons. of felspar, qtz and carb. frags in an arg. matrix. Fair-good porosity.

Dip 0-20 deg.

Background gas 1-9 units

316.6 – 318.4 m (1.8 m)

Shale: lt-md gy, firm, silty, sl.mic., sl.carb., more carb. in part.

Dip 0-10 deg.

Background gas 0-2 units.

318.4 – 321.1 m (2.7 m)

Sandstone: lt gy, fg, srded, well sorted, cons. of wh felsp, lt-clr qtz, mica and carb spx in an arg matx. Rare tr poor porosity.

Interlaminations of shale a/a at top.

Dip 20 deg.

Background gas 0-2 units

321.1 – 324.68

Shale: : lt-md gy, firm, silty, sl.mic., sl.carb with occ. carb partings. Tr. pyr.

Dip 10-20 deg.

Background gas 0-2 units.

324.68 – 326.4 m (1.72 m)

Sandstone: lt gy. Fg, well sorted, srdded, cons of wh felsplt gy to clr qtz and abd carb spx in an arg matx. Tight.

Dip 10-20 deg.

Background gas 0-2 units.

326.4 - 346.35 m (19.95 m)

Sandstone: lt-md gy, pred mg, well sorted, sang-srdded, cons of wh felsp. lt gy to clr qtz and abd carb spx in an arg sl calc.matx. Tr pyr. Fair- good visual porosity.

Dip 10-20 deg.

Background gas 1-3 units.

346.35 – 347.96 m (1.61 m)

Sandstone: a/a with abundant shale clasts, from several mm to > core diameter. Some elongate, some subrounded.

Dip 0-20 deg

Background gas 0-3 units.

347.96- 348.72 m (0.76 m)

Sandstone: lt gy, vf-mg, mod sorted, cons of sang-srdded wh felsp. Gry & clr qtz & mica in an arg. matx.. Good-excellent visual porosity.

Abundant flattened clasts of siltstone & shale.

Dip indeterminate

Background gas 0-3 units.

348.72-353.0 m (4.28 m)

Sandstone lt-md gy, vf-fg, consisting of sang wh. felspar, gy qtz & mica in an arg.matx, Tight. Interlaminated grey shale and siltstone. Dip to 30 deg.

353.0 – 354.18 (1.18 m)

Sandstone: lt-md gy, f-mg, well sorted, cons. Of sang-srdded wh felsp, qtz & occ. mica in an arg. matx. Good visual porosity.

354.18-355.0 m (0.82 m)

Sandstone: a/a with large clasts of gy shale to 15 cm in length.

355.0 m- 355.18 m (0.18 m)

Shale: lt gy, hard.

355.18-358.82 m (3.64 m)

Sandstone: lt-md gy, f-mg, well sorted, cons. Of sang-srdded wh felsp, qtz & occ. mica in an arg. matx. Good visual porosity.

Dip 20 deg.

358.82-361.5 m (2.68 m)

Shale: gy, firm, with high angle fracture (approx. 70 deg.) at 360.4 m

Occ. silty & sdy interlaminations & fine beds

Dip

361.5 – 363.2 m (1.7 m)

Interbedded and interlaminated Shale a/a & Sandstone: lt-md gy, fg sang-srded, sl. mic. cons. of wh felp & qtz in an arg. matx. Tight.

363.2 – 363.44 m (0.24 m)

Sandstone: lt-md gy, fg sang-srded, sl. mic. cons. of wh felp & qtz in an arg. matx.

Rare tr. Porosity.

363.44 – 366.5 m (TD) (3.06 m)

Shale: gy firm with high angle fractures (poor recovery)

ENCLOSURE 1

PE612385

This is an enclosure indicator page.  
The enclosure PE612385 is enclosed within the  
container PE914415 at this location in this  
document.

The enclosure PE612385 has the following characteristics:

ITEM\_BARCODE = PE612385  
CONTAINER\_BARCODE = PE914415  
NAME = Boundary Creek-1A Production Log  
BASIN = GIPPSLAND  
ONSHORE? = Y  
DATA\_TYPE = WELL  
DATA\_SUB\_TYPE = WELL\_LOG  
DESCRIPTION = Boundary Creek-1A Memory Production  
Log, Scale 1:200, Enclosure 1 of Well  
Completion Report  
REMARKS =  
DATE\_WRITTEN = 22-SEP-2001  
DATE\_PROCESSED =  
DATE\_RECEIVED = 04-APR-2003  
RECEIVED\_FROM = Lakes Oil NL  
WELL\_NAME = Boundary Creek-1A  
CONTRACTOR =  
AUTHOR =  
ORIGINATOR = Lakes Oil NL  
TOP\_DEPTH =  
BOTTOM\_DEPTH =  
ROW\_CREATED\_BY = DN07\_SW

(Inserted by DNRE - Vic Govt Mines Dept)

ENCLOSURE 2

Enclosure 2

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PE914416

This is an enclosure indicator page.  
The enclosure PE914416 is enclosed within the  
container PE914415 at this location in this  
document.

The enclosure PE914416 has the following characteristics:

ITEM\_BARCODE = PE914416  
CONTAINER\_BARCODE = PE914415  
NAME = Boundary Creek-1 & -1A Mud Log  
BASIN = GIPPSLAND  
ONSHORE? = Y  
DATA\_TYPE = WELL  
DATA\_SUB\_TYPE = MUD\_LOG  
DESCRIPTION = Boundary Creek-1 and Boundary Creek-1A  
Mud Log, Scale 1:500, Enclosure 2 of  
Well Completion Report  
REMARKS =  
DATE\_WRITTEN =  
DATE\_PROCESSED =  
DATE\_RECEIVED = 04-APR-2003  
RECEIVED\_FROM = Lakes Oil NL  
WELL\_NAME = Boundary Creek-1A  
CONTRACTOR =  
AUTHOR =  
ORIGINATOR = Lakes Oil NL  
TOP\_DEPTH = 200  
BOTTOM\_DEPTH = 366  
ROW\_CREATED\_BY = DN07\_SW

(Inserted by DNRE - Vic Govt Mines Dept)



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ENCLOSURE 3

PE914417

This is an enclosure indicator page.  
The enclosure PE914417 is enclosed within the  
container PE914415 at this location in this  
document.

The enclosure PE914417 has the following characteristics:

ITEM\_BARCODE = PE914417  
CONTAINER\_BARCODE = PE914415  
    NAME = Boundary Creek-1 Composite Log  
    BASIN = GIPPSLAND  
    ONSHORE? = Y  
    DATA\_TYPE = WELL  
    DATA\_SUB\_TYPE = COMPOSITE\_LOG  
    DESCRIPTION = Boundary Creek-1 and Boundary Creek-1A  
    Composite Log, Enclosure 3 of Well  
    Completion Report  
    REMARKS =  
    DATE\_WRITTEN =  
    DATE\_PROCESSED =  
    DATE\_RECEIVED = 04-APR-2003  
    RECEIVED\_FROM = Lakes Oil NL  
    WELL\_NAME = Boundary Creek-1A  
    CONTRACTOR =  
    AUTHOR =  
    ORIGINATOR = Lakes Oil NL  
    TOP\_DEPTH = 195  
    BOTTOM\_DEPTH = 366  
    ROW\_CREATED\_BY = DN07\_SW

(Inserted by DNRE - Vic Govt Mines Dept)