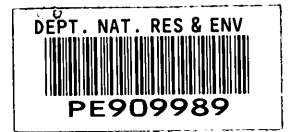


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(5 COLOUR PAGES)



LAKES OIL N.L.

(A.B.N. 62 004 247 214)

PATTIES PIES-1

PEP 156

ONSHORE GIPPSLAND BASIN, VICTORIA

WELL COMPLETION REPORT

By
J.N. Mulready

October 2003

LAKES OIL N.L.
Level 11
500 Collins Street
Melbourne 3000



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LIST OF ENCLOSURES (Pocket)

SCALE

Enclosure 1	Composite Well Log	1:500
Enclosure 2	Schlumberger Well Logs	1:500
		1:200

Suite 1. (@ TD)

Type Log

HALS-BHC-TLD-MCFL-CALI-

CNL-GR-SP

HALS-Sonic-PEX

Interval (m)

439-59.4m

(GR to Surface)

Patties Pies No. 1

909989 005

Location Map



Figure 1

1.0 SUMMARY

Patties Pies-1, the second well to be drilled by Lakes Oil in PEP 156, was located approximately 5 kilometres southeast of Bairnsdale, the closest wells being Paynesville-1, 7 km to the south, and Fairhope-1 10 km to the southwest. Two local water bores were located in the vicinity of the well, each producing significant amounts of associated methane gas with very minor amounts of H₂S.

Patties Pies-1 was drilled to assess the hydrocarbon potential of a horst block identified on line GOR88A-05 at a location significantly higher structurally than the nearby water wells. The well stratigraphic intersections were close to prediction, but no significant gas shows were encountered. A 60 m weathered volcanic section was encountered within the Latrobe Fm section, however, which had not been anticipated..

Patties Pies-1 spudded on 14 March 2003. 311 mm hole was drilled to 10 m and a 244 mm conductor pipe was then set at that depth. 216 mm hole was then drilled to 26 m, at which stage it became necessary to cease drilling and set a cement plug to overcome leakage of drilling mud around the conductor pipe.

The well then drilled ahead to 100 m, at which stage it was planned to run 178 mm casing. In the event it was not possible to run the casing beyond 83.34 m due to tight hole. The 178 mm casing was then cemented in place at this depth. After installing and testing BOPs the well drilled ahead in 156 mm hole to its total depth of 441 m., which was reached on 22 March 2003.

As a result of the lack of shows no testing was undertaken. Electric logs confirmed the conclusion that the well was dry, and Patties Pies-1 was subsequently plugged and abandoned and the rig released at 1500 hrs on 24 March 2003.

2.0 WELL HISTORY

2.1 GENERAL DATA

Well Name and Number: PATTIES PIES No.1

Location: Latitude: 37°51'4.2"
Longitude: 147°40'27.5"E
Easting: 487 829.35
Northing: 5729 515.75
Seismic: VP 135 Line GOR 88A-05
Bairnsdale SS

Elevations: G.L. 2.2 m A.S.L.
K.B. 3.7 m A.S.L.

Petroleum Tenement: PEP 156

Name of Operator: LAKES OIL N.L.
A.C.N. 004 247 214
Level 11
500 Collins Street
MELBOURNE VICTORIA 3000

Other Participants: None

Date Drilling Commenced: 14 March 2003

Date Drilling Completed: 22 March 2003

Date Rig Released: 24 March 2003

Drilling Time to T.D.: 9 days

Total Depth: Driller : 441 m.
Logger : 441.4 m.

Status: Left for conversion by Landowner to a water well, producing from the Gippsland Limestone.

2.2 RIG DATA

Drilling Contractor	Sides Engineering Pty Ltd 25 Garden Road, Clayton, Vic. 3168
Rig	Bourne 2000THD
Rig Carrier	Twin Steer Tri-axle
Weight Indicator	Hydraulic Pressure
Power	Cummins - Truck Engine
Rotary	Top Drive
Blocks	Not applicable
Pumps	Clarke 5.5X10 3 Cylinder Duplex
Mud mixing	Gardner Denver Duplex
Sump pump	Not applicable
Transfer Pump	Wreckair - Worm Drive
Tubulars	3.5" X 13.30 D.P.
Fishing Tools	None on Site
Handling Tools	Rented Tasman
Stabilizer	12.25", 8.5" , 6"
Spare Parts	As reasonably required to conduct operations for programmed well
Personnel	Driller plus 4 crew
Drilling Hours	Rig Operated Daylight Hours Only with the exception of the night of the 1 st of March 2003, when a second crew was on hand prior to drilling the Latrobe section and logging.

Time vs Depth Patties Pies-1

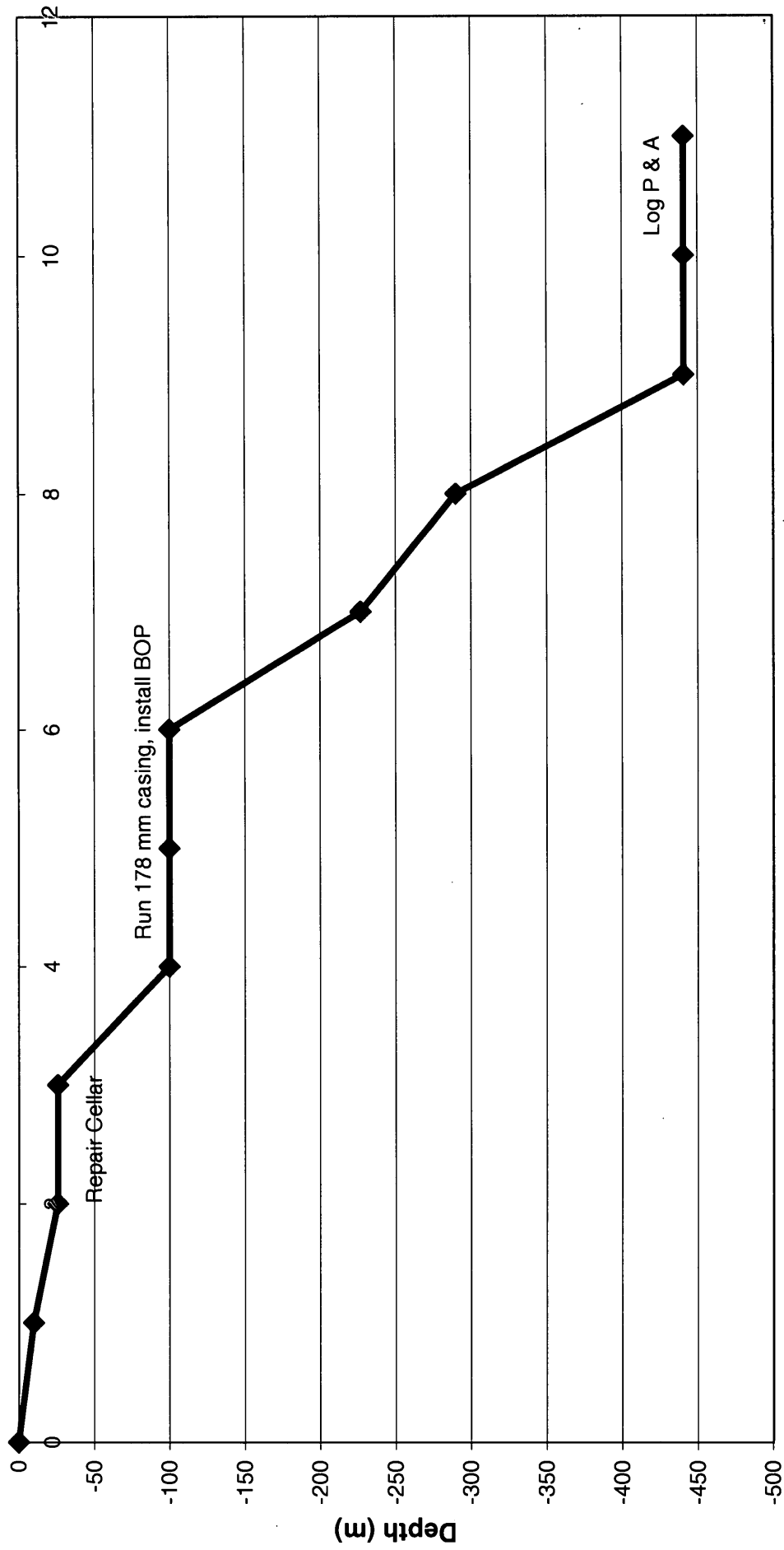


Figure 2

Days

Depth (m)

2.3 DRILLING DATA

The following is the daily operations summary for Patties Pies-1. It has been compiled from the tour sheets and daily drilling reports. Onsite drilling supervision for Lakes Oil N.L. was provided by Drilling consultant G. Nicot. Further details are provided in the time/depth curve (Figure 2).

The depths in the following summary are those reached at 2400 hours on each day with the operations given for the previous 24 hour period.

DATE	OPERATIONS
12.3.03	Rig arrived on site
13.3.03	Rigging up
14.3.03	Completed rigging up. Drilled & reamed 311 mm hole to 10 m Ran & set 244 mm conductor pipe. Rigged up, mixed mud.
15.3.03	Finished mixing mud. Drilled to 26 m. Partial mud losses and mud return outside conductor casing. Cleaned out cellar and dug out area around conductor. Spotted 14 sax plug. Wait on cement.
16.3.03	Commenced circulation – mud return observed inside & outside cellar. Spotted 1.5 cubic m. of grout inside cellar. Wait on cement.
17.3.03	Drilled 216 mm hole from 26 m to 100m (designated casing point). Still some leakage. Ran wiper trip to 60 m. Ran 178 mm casing to 72 m, obstruction encountered. Continued leakage in cellar. Wait on daylight.
18.3.03	Pumped out cellar and washed and pushed 178 mm casing to 84.34 m. Cemented casing using 2.1 c.m. of slurry. Displaced with mud and bumped plug to 3155 kpa for 5 min. Wait on cement.
19.3.03	Nipple up BOP, install flare line
20.3.03	Test BOP. RIH to 74 m and drilled out casing shoe. Reamed & washed to 100m. Drilled 156 mm hole to 102 m. Repaired swivel and mud pump. Drilled to 200 m. Repaired mud pump. Drilled to 226.6 m. Circulated & pulled 10 singles.
21.3.03	Repaired mud pump. RIH and drilled to 290 m. Circulated and conducted carbide test whilst waiting to drill Latrobe Fm during daylight with Schlumberger on site, (as per drilling plan). Pulled back 10 singles.
22.3.03	Circulated & conditioned mud, drilled to 441 m (TD). Ran wiper trip to 280 m. Second crew on site for night shift. Circulated hole clean. POOH to log. Held safety meeting prior to running wireline logs. Logging.
23.3.03	Ran GR-SONIC-CALIPER-NEUTRON/DENSITY-DLL-SP logs. Rig down Schlumberger. Wait on daylight. RIH to 325 m, set Plug#1 from 325-265 m. Pulled back to 167 m & waited on cement delivery. Disconnected flare line and commenced rigging down.
24.3.03	Wait on cement delivery. Spotted cement plug #2 from 165-110 m. Well left open as a water producer. A plugged short joint of 178 mm casing was connected to the surface casing, rising approximately 1 m above ground level. Laid down remaining drill pipe, removed BOPs and braidenhead, installed water riser and completed rigging down. Rig released @ 1500 hrs.

2.4 LOGGING AND TESTING**Wellsite Geologist:**

J.Mulready

Mudlogging:

Lakes' own hot-wire gas detector was used to monitor ditch gas, and was supervised by D.Sisely

A mudlog recording lithology, penetration rate, mud gas and other data was prepared and is an enclosure to this report.

Ditch Cutting Samples :

Cuttings were collected at 10m. intervals from surface to 100m. and then at 3m. intervals to 441 m. (T.D). The cuttings samples and sets were:

<u>Sample Type</u>	<u>No. Sets</u>
Unwashed	1 (DPI)
Samplex Trays	1 (Operator)

Coring:

None.

Sidewall Cores:

None.

Testing:

None.

Wireline Logs:

One suite of logs were run by Schlumberger.

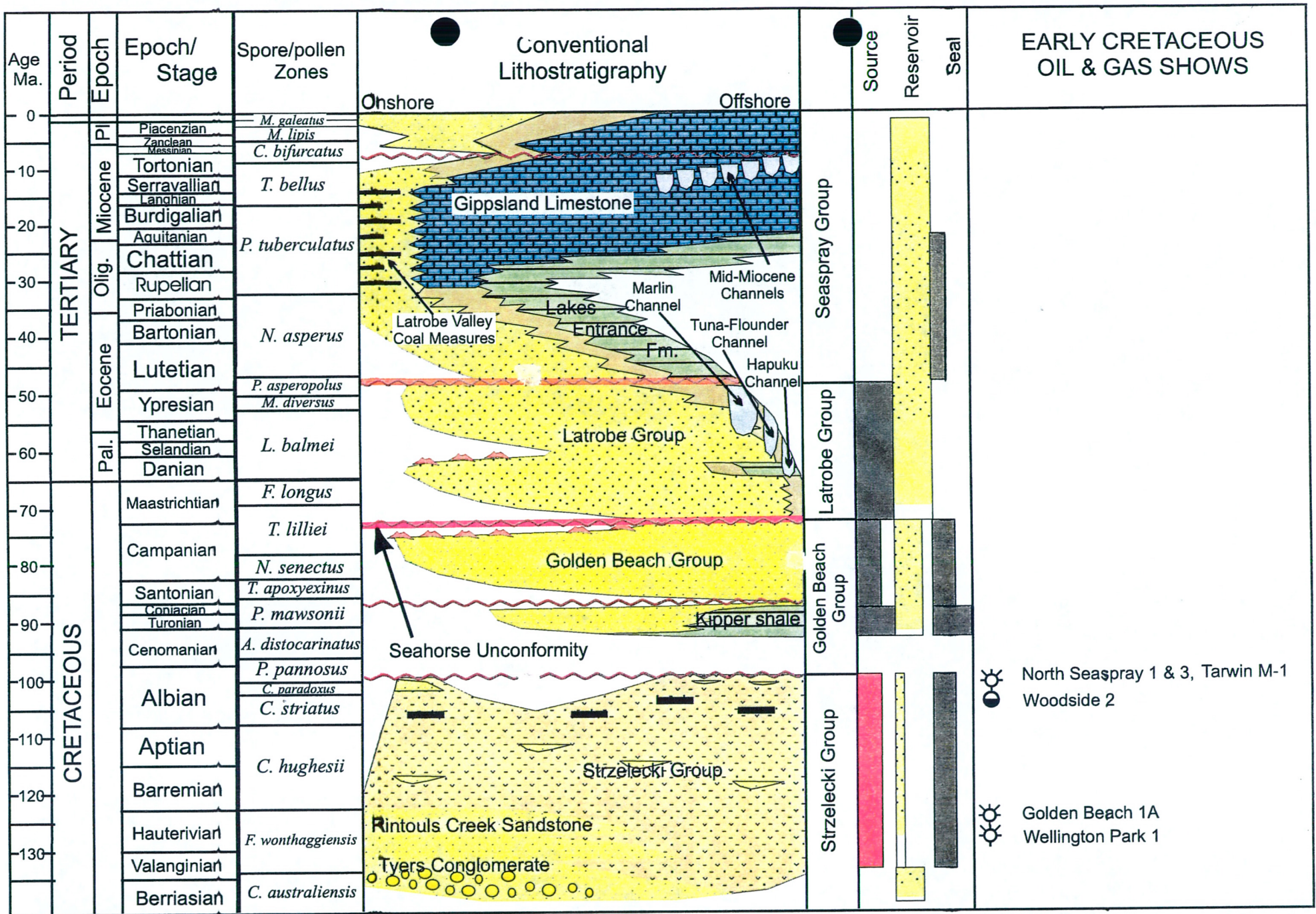
<u>Run #1</u>	<u>Type Log</u>	<u>Interval (m)</u>
	HALS-BHC-TLD-MCFL-CALI-CNL-GR-SP	439-83 m. (GR to Surface)

Temperature Surveys:

Wireline logging recorded a maximum bottom hole temperature of 42⁰C

Velocity Survey:

None



North Seaspray 1 & 3, Tarwin M-1
 Woodside 2

 Golden Beach 1A
 Wellington Park 1



LITHOSTRATIGRAPHY, GIPPSLAND BASIN

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RESIDUAL
2010
2010

RES. SHOT STATIC
RES. GROUP STATIC

PATTIES PIES 1

909989 014

IP

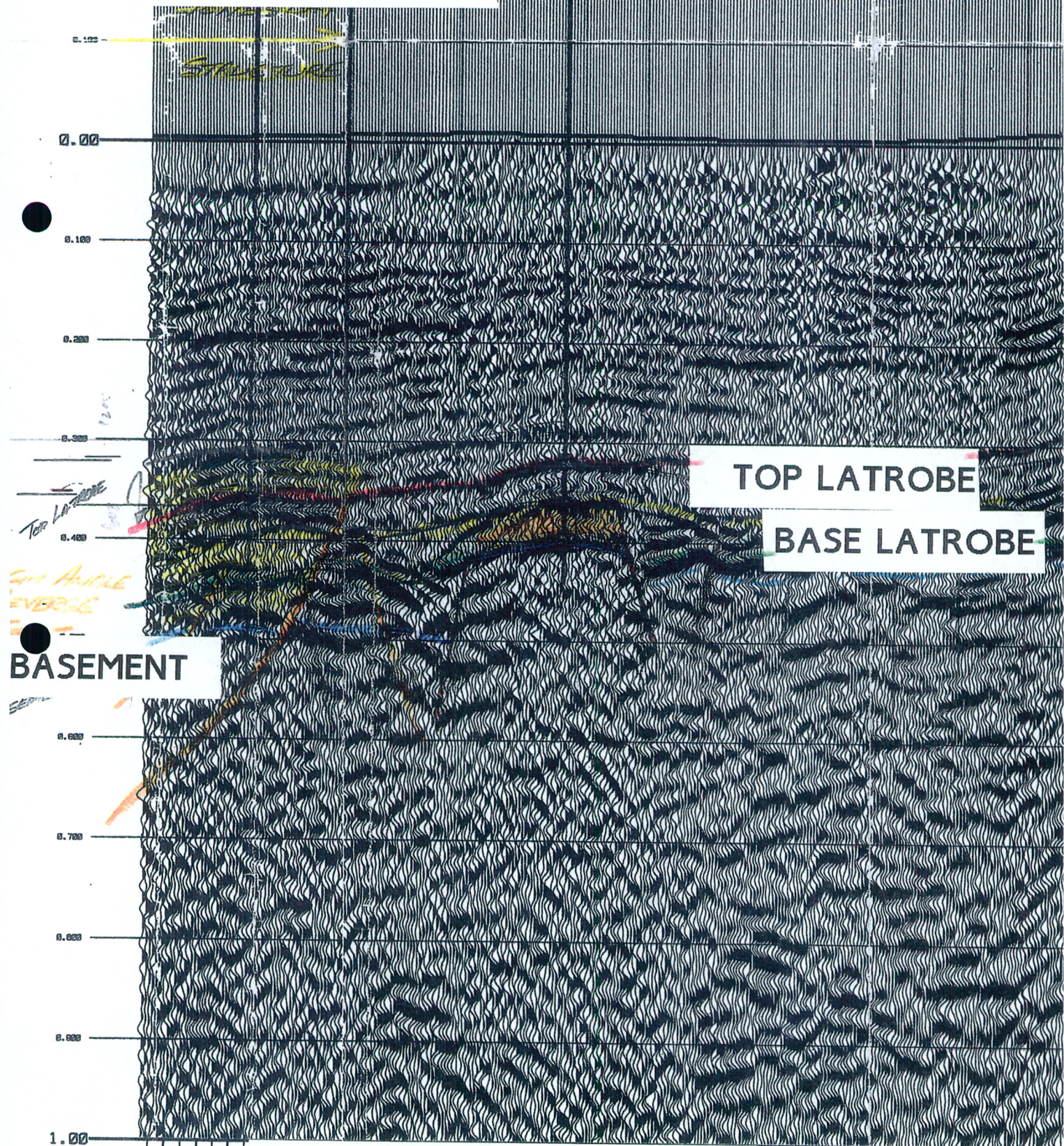
DP

110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
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JONES BAY 1 BAYVIEW LEDGE

210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800
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PROPOSED JONES BAY 1



SEISMIC LINE GOR88A-05

FIGURE 4

3.0 GEOLOGY

3.1 REGIONAL GEOLOGY

The Gippsland Basin is an Early Cretaceous to Cainozoic Basin occupying approximately 46,000km² of the southeastern margin of the Australian continent. The basin is flanked on the north, west and south-west by Palaeozoic rocks and confined between the structural uplifts of the Victorian Highlands in the north and the Bassian Rise in the south. The eastern margin of the basin is open to the Tasman Sea. The Gippsland Basin is an east-west trending half graben feature with 70% of its area lying beneath Bass Strait and 30% onshore.

With the exception of occasional wildcat drilling in the boom of the 1980's, exploration of the onshore Gippsland Basin has been largely ignored since the 1970's.

The early exploration activities in the onshore part were aimed primarily at the Early Cretaceous Strzelecki Group and, later on, at the top of the Latrobe Group coarse clastics. However a lack of understanding of the stratigraphy and the mechanism of hydrocarbon generation, migration and timing of structures, along with poor quality of the seismic and well log data, resulted in a downgrading of the hydrocarbon potential of the onshore area.

3.2 TECTONIC HISTORY

The Gippsland Basin is a rift basin, which originated in the Late Jurassic to Early Cretaceous and consists of alternating half-graben structures along its east-west trend. It is characterised by a deep central basin, flanked by northern and southern terraces. In the onshore area Late Cretaceous movements were accompanied by volcanism. Several phases of positive structural inversion occurred in the Gippsland Basin from Mid-Oligocene to the present time, creating the major hydrocarbon bearing structures seen in the offshore region. The main phase occurred during the Late Miocene, which resulted in inversion of existing features and the creation of anticlinal structures.

3.3 STRUCTURAL ELEMENTS

The onshore area can be tectonically sub-divided into six major areas:

- (A) Lakes Entrance Platform (Northern Platform): This lies immediately south of the Eastern Highlands, where the Palaeozoic Basement gently slopes southwards and is unconformably overlapped by Oligocene - Miocene marine sediments and thin Pliocene - Quaternary continental deposits.
- (B) Latrobe Valley Depression: This lies between the Palaeozoic Eastern Highlands to the north and the Early Cretaceous Balook Block to the south. Over 700 meters of continental Latrobe Valley sediments are present in this area.
- (C) Lake Wellington Depression: This lies to the south of the Lakes Entrance Platform, where over 1200 meters of Eocene to Pliocene sediments unconformably overlie the Early Cretaceous rocks. This trough is offset from the Latrobe Valley Depression to the west, by left lateral displacement on the Yinnar Transfer Fault Zone which occurred during the Tertiary. The boundary also closely coincides with the western limit of marine Tertiary sediments. To the east it merges with the Strzelecki Terrace.

- (D) Baragwanath Anticline: This is the eastern extension of the outcropping Balook High. It is an Early Cretaceous block, which was elevated during Late Miocene time as a result of renewed lateral strike slip wrenching along the Boundary Fault Systems. It separates the Lake Wellington Depression to the north from the Seaspray Depression to the south. On the crest of the structure, thin Miocene strata are succeeded unconformably by a veneer of Pliocene-Pleistocene sediments. On the flanks of the structure, however, the Miocene sediments wedge out towards the crest by onlap at the base and erosion at the top of the sequence.
- (E) Seaspray Depression: This is the onshore extension of the Central Deep. It occupies the southern onshore part of the basin, where the most complete stratigraphic section is present. The permit occupies the northeastern end of the Seaspray Depression.
- (F) South Terrace: Wilson's Promontory is an erosional remnant of a broad shallow basement platform bounding the Gippsland Basin on its southern side. The Southern Terrace represents the edge of this platform. The Chitts Creek Conglomerate onlaps the South Terrace as a mirror image to the Tyers Conglomerate on the North Terrace.

3.4 PERMIT PEP 156

PEP136 was granted to Lakes in June 1997. During June 2000, following changes to the onshore legislation, the permit was granted for a further five year period, and the permit name changed to PEP156.

PEP156 covers an area of 3185 sq km within the onshore Gippsland Basin. Virtually all the permit is within the Northern Platform.

3.5 EXPLORATION HISTORY

Petroleum exploration in the permit commenced in the early 1960's and continued into the early 1970's, conducted mainly by Woodside and Arco. This exploration originally had as its main objective the Strzelecki Group, with emphasis moving to the Latrobe Group later in this period.

In 1985 Ampol et al drilled three exploration wells through the Latrobe Formation into metamorphic basement - Fairhope-1, Comley-1 and Paynesville-1. In all three wells the Latrobe section proved to be water saturated.

In 1990 Mosaic et al drilled a structural stratigraphic well (Avon-1) to test an Intra-Latrobe sand, which also proved to be water filled.

In 1997 Lakes drilled Investigator-1 (as well as Baudin-1 in the adjacent PEP 135) to test intra Latrobe plays. Neither of these wells produced significant hydrocarbon shows.

3.6 REASONS FOR DRILLING

It has been common knowledge for some time that water wells in the vicinity of Bairnsdale have produced significant amounts of gas in association with the water. In particular the well located on the Foard property approximately 2 km northwest of Patties Pies-1, and the bore on BAY View Lodge, approximately 500 m from Patties Pies-1.

3.7 STRATIGRAPHIC PROGNOSIS

In the absence of any logged wells in the vicinity, the stratigraphic prognosis was prepared from formation picks on Line GOR88A-05 and the knowledge that the nearby water bore on Walker's Bay View property was producing from near the top of the Latrobe Fm at around 1060 ft

A comparison between prognosed and actual formation tops is given below.

FORMATION	Prognosed (mKB)	Actual (mKB)	Difference (m) H /L
Tertiary Gravels	surface	Surface	0
Gippsland Limestone	85	35	50 H
Lakes Entrance	325	250	75 H
- Greensand member	<i>Not prognosed</i>	271 m	
Latrobe Group	300	297	3 H
Volcanics	<i>Not prognosed</i>	357	
Latrobe sands below volcanics	<i>Not prognosed</i>	412	
Basement	420	428	8 L
TD		441	

3.8 STRATIGRAPHY

TERTIARY GRAVELS

Surface to 35 metres. Thickness 33.5 m.

Clay: Red, red brown, grey, soft, sticky below 45 cm soil layer.
 Sandstone: Red brown, very fine grained, well sorted, subrounded, argillaceous.

GIPPSLAND LIMESTONE

35-250 metres Thickness : 215 metres

Limestone: Light grey, grey brown calcarenite consisting of unconsolidated fine to coarse grained, with occasional very coarse grained and pebble sized shell fragments, predominantly bryozoa & corals, gasteropods, bivalves & occsaional forams. Good porosity. Traces of glauconite towards base. Interbedded with

- Siltstone:** (calcsiltite) light grey, occasionally white, calcareous speckled in part due to dark indeterminate inclusions, friable, sl.glauconitic, very sandy, grades to
- Sandstone:** light grey, occasionally white, very fine grained, subrounded, calcareous, argillaceous, very silty, grades to calcsiltite as above.
Some interbeds near base of unit of
- Marl:** grey green, soft, dispersive, slightly micaceous.

LAKES ENTRANCE FORMATION

250-300 metres. Thickness 50 metres.

250-273 m.

- Marl:** grey green, soft, dispersive, slightly micaceous
273-300 m.

- Glauconitic Sandstone:** grey, grey brown, firm, consisting of well sorted very fine grained rounded quartz, with common shell fossils, glauconite, mica and occasional carbonaceous? specks in a calcareous, slightly argillaceous matrix. Tight, no shows

Minor interbeds of limestone as above near the base of this unit.

LATROBE GROUP

297-429 m. Thickness 132 metres

300-357 m.

- Sand:** Light grey, consisting of unconsolidated clear and rare grey sub-rounded to rounded fine to coarse to very coarse grained and gravel sized quartz grains. Excellent porosity, no shows.
Traces of coal, black-brown, soft.
Very common pyrite nodules over the interval 321-345 m.
These produce violent fluctuations in the gamma ray log over this interval.

357-412 m.

- Weathered basalt:** **Claystone** with minor interbedded **Sandstone** (caved?)
Clay, lt brown, pink (Fe stained) in part, soft, dispersive, slightly calcareous.
Sandstone: as above Common Fe staining

412-428 m

- Sand:** Light grey, consisting of unconsolidated clear and rare grey sub-rounded to rounded fine to coarse grained quartz grains.
Common shell fragments & calcite
Excellent porosity, no shows.
Common limestone cavings.

BASEMENT:

428M -TD (441 m.)

Sandstone: Grey green, very fine grained, well sorted, slightly micaceous, siliceous
Tight. No shows.

3.9 HYDROCARBON SHOWS

No significant gas shows or fluorescence were recorded in the well.

The Latrobe Group primary target had low gas values and no fluorescence in the sands.

4.0 DISCUSSION AND CONCLUSIONS

Patties Pies-1 achieved its objective of appraising the hydrocarbon potential of a horst block identified on Line GOR88A-05 from Ocean Resource's 1988 Bairnsdale Seismic Survey.

The primary target, the Latrobe Group, was expected to be intersected structurally higher than the producing reservoirs in the nearby Bay View Lodge water well, estimated as about 337 m subsea. This proved to be the case, as Patties Pies-1 intersected the Latrobe group at just above 300 m subsea. The sands had very good reservoir quality, but no significant hydrocarbon shows were encountered.

A weathered lava flow, which subcrops on the western margin of the basin, wasn't prognosed at the location, but proved to be 51 m thick, effectively bisecting the Latrobe sedimentary section. After running wireline logs, as no significant hydrocarbons had been observed, the well was plugged and left for the Landowner to complete as a water well from the Gippsland Limestone.

There is as yet no satisfactory answer as to why no gas was encountered at a structurally higher location than the nearby Bay View Lodge bore, and the lack of adequate seismic and well control makes it difficult to adequately explore the possibilities.

Lakes is currently considering drilling a second well on the southern (downthrown) side of the horst in order to more fully evaluate the potential for commercial development of gas in the Bairnsdale vicinity.

5.0 COMPLETION

None – the well was plugged above the Latrobe Group aquifers and is to be converted by the landowner to a water well producing for stock & domestic purposes from the Gippsland Limestone.

Table II. PATTIES PIES-1

STRATIGRAPHIC TABLE KB= 3.7 m. GL=2.2 m.

AGE	FORMATION	Depth (mKB)	Depth (mSS)	Thickness (m)
Tertiary Gravels		Surface	2.2	33.5
TERTIARY – Miocene-Oligocene	Gippsland Limestone	35	-31	215
TERTIARY – Oligocene	Lakes Entrance	250	--246	47
	Glauconitic Sand Mbr.	(271)	(-267)	(26)
TERTIARY – E Oligocene-Eocene	Latrobe Group	297	-293	131
	Volcanics	(357)	(-353)	(65)
	Latrobe Group Sands (cont.)	(412)	(-408)	(16)
PALAEOZOIC Basement		428	-424	
	TD	441	-437	

APPENDIX 1

CUTTINGS DESCRIPTIONS

PATTIES PIES-1 CUTTINGS DESCRIPTIONS
Wellsite Geologist: J. Mulready. Well spudded 3.03

DEPTH m	ROP min/m	Gas Units	DESCRIPTION
0-10			Clay: Red, red bm, soft. sticky below 45 cm soil layer Sstone: rd bm, vfg, w. sorted, srded, arg.
10-20			Clay: gy, soft, puggy.
20-30			Clay: a/a
30-40			Limestone: orge bm, cons of shell frags tr coal, (Poor sample)
40-50			No returns
50-60			No returns
60-70			No returns
70-80			No returns
80-90			No returns
90-100			No returns
100-102	1	0	70% Limestone: (calcirudite) Lt gy, gy bm f-cg shall frags, pred. bryozoa, coral, occ. forams, gastreopods and bivalves. Good porosity. 30% Sstone: gy vfg srded calc arg slty sst grades to calc sltst. Tight Tr glauc.
102-105	1	0	70% Limestone: a/a 30% Sst/Sltst: a/a Tr glauc a/a
105-108	1.1	0	70% Limestone: a/a 30% Sst/Sltst: a/a Tr glauc a/a
108-111	2	0	80% Limestone: a/a vcg-pebbly frags common 20% Sst/Sltst: a/a incorporates occ echinoid spines. Tr glauc a/a
111-114	1	0	70% Limestone: a/a 30% Sst/Sltst: Lt gy occ wh, 'speckled' appearance from dark inclusions, vfg srded calc sl glauc. friable
114-117	1	0	50% Limestone: a/a

				50% Sst/Slst: a/a	
117-120	1	0		50% Limestone: a/a 50% Sst/Slst: a/a	
120-123	1	0		40% Limestone: a/a 60% Sst/Slst: a/a	
123-126	1	0		20% Limestone: a/a 80% Sst/Slst: a/a	
126-129	1.7	0		20% Limestone: a/a 80% Sst/Slst: a/a	
129-132	1	0		50% Limestone: a/a 50% Sst/Slst: a/a	
132-135	.8	0		60% Limestone: a/a 40% Sst/Slst: a/	
135-138	1	0		60% Limestone: a/a 40% Sst/Slst: a/a	
138-141	1.1	0		60% Limestone: a/a 40% Sst/Slst: a/a	
141-144	1	0		90% Limestone: a/a 10% Sst/Slst: a/a	
144-147	1	0		90% Limestone: a/a 10% Sst/Slst: a/a	
147-150	1.1	0		Limestone: a/a	
150-153	1.3	0		90% Limestone: a/a 10% Sst/Slst: a/a	
153-156	1.1	0		90% Limestone: a/a 10% Sst/Slst: a/a	
156-159	1	0		Limestone: a/a	
159-162	1	0		Limestone: a/a	
162-165	1	0		80% Limestone: a/a 20% Sst/Slst: a/a	
165-168	1	0		90% Limestone: a/a 10% Sst/Slst: a/a	

168-171	1	0	80% Limestone: a/a 20% Sst/Sltst: a/a
171-174	1	0	80% Limestone: a/a 20% Sst/Sltst: a/a
174-177	2	0	Limestone: a/a
177-180	2.2	0	80% Limestone: a/a 20% Sst/Sltst: a/a
180-183	2.2	0	90% Limestone: a/a 10% Sst/Sltst: a/a
183-186	2.2	0	90% Limestone: a/a 10% Sst/Sltst: a/a
186-189	2.1	0	80% Limestone: a/a 20% Sst/Sltst: a/a
189-192	2.1	0	90% Limestone: a/a 10% Sst/Sltst: a/a
192-195	2.1	0	70% Limestone: a/a 30% Sltstone: grn-gy, soft, calc
195-198	2.1	0	70% Limestone: a/a 30% Sltstone: a/a
198-201	2.1	0	Limestone: lt gy, wh, cons pred of f-mg shell frags (pred. bryozoa and coral) and wh calcite. Tr glauc, Tr gy sltst a/a
201-204	2.6	0	50% Limestone: a/a 50% Sltstone: lt gy with blk speckles, calc. soft
204-207	2.1	0	50% Limestone: a/a 50% Sltstone: lt gy with blk speckles, calc. soft
207-210	1.7	0	Limestone: a/a some evidence of marl interbeds - prob. passing into suspension in mud
210-213	1.1	0	Limestone: a/a
213-216	2.1	0	Limestone: a/a
216-219	2.6	0	Limestone: a/a
219-222	2.1	0	Limestone: a/a
222-225	2.0	0	Limestone: a/a
225-228	1.3	0	Limestone: a/a Tr glauc Tr sltst a/a

228-231	1.7	0	Limestone: a/a Tr glauc Tr sltst a/a grading to marl
231-234	1.1	0	50% Limestone: a/a 50% Marl: gy gm, soft, dispersive, sl mic.
234-237	2.7	0	90% Marl: a/a 10% Limestone: a/a
237-240	2.3	0	90% Marl: a/a 10% Limestone: a/a
240-243	1.7	0	Limestone: a/a cemented in par
243-246	4.7	0	Limestone: (calcarenite) Cons of vfg shell frags occ glauc in a calc matx tr mica
246-249	1	0	80% Marl: gy gm, soft, dispersive, sl mic. 20% Limestone: a/a
249-252	1	0	Marl: gy gm, soft, dispersive, sl mic.
252-255	1	0	Marl: a/a
255-258	1	0	Marl: a/a
258-261	1	0	Marl: a/a
261-264	0.8	0	Marl: a/a
264-267	1	0	Marl: a/a
267-270	2	0	Marl: a/a
270-273	2.1	0	Marl: a/a
273-276	1	0	70% Glauconitic Sstone: gy, gy bm, firm, cons. of w.sorted vfg rded qtz, shell frags, glauc, occ carb? spx mica in a white calc sl arg matx 30% Marl: a/a Comm Tr lst a/a
276-279	1	0	Glauconitic Sstone: a/a Tr Lst a/a
279-282	1	0	Glauconitic Sstone: a/a Tr Lst a/a
282-285	1	0	Glauconitic Sstone: a/a Tr Lst a/a
288-290	1	0	Glauconitic Sstone: a/a Tr Lst a/a Tr pyr. Circ Bottoms up @ 290 m. <i>Ran carbide test 136 units after 11 min Lag 6+ min. Mud wt 9.1 Vis 42</i>
290-294	2.1	1	80% Glauconitic Sandstone: a/a 20% Limestone: a/a
294-297	1.6	1	Sand: Lt gy, cons. of unconsol.clr rare gy sbrded-rded c-veg & gravel size qtz, grains. abd. pyr. No shows.

				Tr Glauconitic Sstone: a/a	Top Latrobe ~295 m
297-300	1.6	1		Sand: a/a	No shows
300-303	2	1		Sand: a/a	No shows
303-306	2	1		Sand: a/a	No shows
306-309	1	1		Sand: a/a	No shows
309-312	1	0		Sand: a/a	No shows
312-315	1	0		Sand: a/a	common gravel size qtz No shows
315-318	1	1		Sand: a/a	No shows
318-321	1.6	0		Sand: a/a	No shows
321-324	1.5	1		Sand: a/a	Pyrite>30% No shows
324-327	1.1	0		Sand: a/a	Pyrite 10% No shows
327-330	1.1	0		Sand: a/a	Pyrite 10% No shows
330-333	2.1	1		Sand: a/a	Pyrite 10% No shows
333-336	1.1	0		Sand: a/a	Pyrite 10% No shows
336-339	1.1	1		Sand: a/a	Pyrite 10% Tr coal bl-brn, soft No shows
339-342	1.1	0		Sand: a/a	Pyrite 10% Tr coal a/a No shows
342-345	1.1	1		Sand: a/a	Pyrite 10% No shows
345-348	1	1		Sand: lt gy, f-mg, srdded - rded, clr, gy & wh qtz and abdt mica grains. No shows. Comm. Tr black coal	
348-351	7.0	0		Sand: Lt gy, cons. of unconsol. wh, lt brn sang-srdded pred m-cg qtz, grains. abd. pyr. Comm Tr mica Comm calc claystone, lt brn soft No shows	
351-354	2	0		Sand: Lt gy, cons. of unconsol. clr rare gy sbrdded-rded c-vcg & gravel size qtz, grains. abd. pyr. No shows	
354-357	1.1	1		<i>Poor sample Mostly cavings</i>	
357-360	1.6	0		Clay (weathered volcanics): lt brn, soft, dispersive calc. Sand a/a	
360-363	2.1	0		Clay(weathered volcanics): pink, otherwise a/a and Fe stained Sand, generally a/a	
363-366	3	0		Clay (weathered volcanics) a/a and Sand: wh occ grm also Fe stained in part cg-gravel, sang-srdded, Comm Tr corals & calc frags Tr galena Tr pyr	
366-369	3	1		Clay(weathered volcanics): a/a and Sand: wh also Fe stained in part cg-gravel, sang-srdded, calc in part.	

		<i>Comm Tr corals & calc frags Tr galena</i>	
369-372	5	0	Clay(weathered volcanics): a/a Sand: a/a comm. Fe staining Pred gravel size. Calc in part
372-375	2	0	Clay (weathered volcanics): a/a Sand: a/a comm. Fe staining
375-378	3	1	Clay (weathered volcanics): a/a Sand: a/a comm. Fe staining
378-381	3.3	0	Clay(weathered volcanics): a/a Sand: a/a comm. Fe staining
381-384	6.1	1	Clay(weathered volcanics): a/a Sand: a/a comm. Fe staining
384-387	3.7	0	Clay (weathered volcanics): a/a Sand: a/a comm. Fe staining
387-390	3.7	1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a comm. Fe staining
390-393	3.3	1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a comm. Fe staining
393-396	3.7	1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a comm. Fe staining
396-399	4.1	1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a
399-402	2.7	1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a
402-405		1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a
405-408		1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a
405-408		1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a
408-411		1	Clay (weathered volcanics): a/a lt brn colour Sand: a/a
411-414		1	Clay (weathered volcanics): a/a lt brn colour

			Sand: a/a
414-417	1		Sand: lt gy, srdded-rded, f-cg, unconsol. Comm Tr calc siltst and calcite No shows
417-420	1		Sand: a/a Tr pyr. Common shell frags & calc. (cvgs) No shows
420-423	1		Sand: a/a. Common shell frags & calc No shows
420-423	1		Sand: a/a Common shell frags & calcite. No shows
423-426	1		Sand: a/a. Common shell frags No shows
426-429	1		90% Sand: a/a common shell frags & calcite No shows 10% Sandstone: gy grn vfg. w/sted, srdded, sl mic, silic tight No shows <i>Top basement ~429 m.</i>
429-432	1		30% Sand: a/a No shows (cavings?) 30% Sandstone: a/a No shows 40% Limestone: Shell frags (esp corals and bryozoa) and calcite (cavings?)
432-435	1		60% Sandstone: a/a No shows 20% Sand: a/a No shows (cavings?) 20% Limestone: a/a (cavings?)
435-438	1		60% Sandstone: a/a No shows 20% Sand: a/a No shows (cavings?) 20% Limestone: a/a (cavings?)
438-441	1		60% Sandstone: a/a No shows 20% Sand: a/a No shows (cavings?) 20% Limestone: a/a (cavings?) TOTAL DEPTH

APPENDIX 2

BIT RECORD

BIT RECORD PATTIES PIES-1

Bit No.	1 Rerun 1	2
Size	216 mm (8.1/2")	156 mm (6.1/8")
Type	MH 113G	Reed EHT 12
Serial No.	KT 2055	LX8853
Jets	Open	14.14.12
Out (m)	100	441
In (m)	10	100
Drilled (m)	90	341
Bit hrs on bottom	7	16
Condition	2.2.IN	IN
Avg ROP (m/hr)		21.3
WOB (x 1000 DaN)	0/4	2/4
R.P.M.	60	90

APPENDIX 3

DRILLING FLUID REPORT

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**DRILLING FLUIDS SUMMARY
FOR
LAKES OIL**

**PATTIES PIE # 1
GIPPSLAND BASIN**

Prepared by : Ken Pierce
Andre Skujins
March 2003

Operator : Lakes Oil
Well : Patties Pie # 1
Rig : Sides Rig # 1
Spud : 15th March 2003



CONTENTS

1. Summary of Operations
2. Observations, Recommendations and Well Analysis
3. Material Costs and Consumption Analysis
4. Mud Materials Reconciliation
5. Fluid Properties Summary
6. Mud Volume Reconciliation
7. Graphs
8. Daily Mud Reports

Operator : Lakes Oil
Well : Patties Pie # 1
Rig : Sides Rig # 1
Spud : 15th March 2003



1. SUMMARY OF OPERATIONS

Patties Pie # 1 was spudded in on the 15th March 2003 utilising Sides Engineering # 1 and reached a total depth of 441 m on the 22nd March 2003.

Make up water was tested on site and found the following properties :

Chlorides	300 mg/l
Hardness	300 mg/l
pH	7.5

HOLE SIZE	:	216 mm (8½") Surface Hole
MUD TYPE	:	Gel Spud Mud
INTERVAL	:	0 - 98 m
CASING	:	178 mm (7") @ 96 m

Prior to spudding, the conductor barrel had to be re-cemented. Quick set cement and Portland cement were placed in around the collar of the surface casing that was freshly dug out by the crew.

After dressing the shale shakers with B20 / B80 screens, priming the mud pump, installed mixing tank, spud mud was mixed into mud pits. 100 bbls of spud mud was prepared comprising 37 ppb Ausgel and Caustic Soda and Soda Ash to lower hardness and increase the pH to around 10. The relatively poor mixing facilities led to more gel than usual being used. Due to the limitations of the overall mud system, cement contamination from the re-cementing of the conductor barrel led to quite severe flocculation of the spud mud.

A 216 mm bit and BHA were made up and drilling continued to 26 m, where partial mud losses and mud flow outside of the casing occurred. The cellar was pumped out and the mud viscosity was increased in an attempt to stop mud losses, with no success.

Mixed and spotted 14 sacks of ready mix cement around the conductor and waited on cement. The same 216 mm bit was run back in and when circulation started, mud returns were observed inside the cellar and outside the concrete ring. Bulk cement was ordered and prior to pumping more cement, mud from the cellar was pumped out into mud pits.

After waiting on cement, the same bit 216 mm was run back in and drilled from 26 m to 98 m, surface casing depth. While drilling this section, partial returns were noted when between the shales. Enerseal Fine was added to assist in reducing losses. Also, as the cellar was leaking and filling up with mud, the cellar pump was used to keep up mud returns to mud pump.

Operator : Lakes Oil
Well : Patties Pie # 1
Rig : Sides Rig # 1
Spud : 15th March 2003



A wiper trip to 60 m found hole in good condition. After circulating the hole clean, tripped out of hole and prepared to run 178 mm casing. Worked tight spot in hole at 35 m while pulling out.

The 178 mm casing was run to 72 m, where an obstruction in the hole (formation limestone) was circulated while attempting to push casing down through the hole. A pump failure to empty cellar and keep up with mud returns with pit suction volume also occurred.

With new pumps installed to pump out cellar while washing down casing, the casing was further run to 90 m, the shoe depth. The hole was circulated clean and cement was pumped and displaced with mud.

HOLE SIZE : 156 mm (6-1/8") Production Hole
MUD TYPE : KCI Polymer
INTERVAL : 98 m - 431 m (TD)
CASING : P & A

While waiting on cement, cleaned out cellar and pumping equipment. Installed Braden head, nipped up BOP's, modified choke manifold, installed HCR and kill line. Installed koomey unit, insufficient rig air volume supply to pressure up koomey unit. Wait on hired compressor, make up 156 mm (6-1/8") bit with sub and float valve.

Made up new mud as programmed. KCI was added to slowly achieve a concentration of around 2% and Pac was initially added at 0.5 ppb. After pressure testing BOP's, drilled out cement plug and shoe with gel mud. Drilling then continued from 98 m to 290 m, where the bit was pulled back to 245 m and the hole circulated for 3 hours for a possible test. The bit was then run back in to 290 m, where the hole was circulated clean. The pipe was again tripped back to 245 m, where some dilution was required to dilute the mud to maintain the mud weight below 9.0 ppg. The increase in mud weight occurred due to a solids build up in mud pits resulting from not being able to dump mud (as requested), and with the drilling of sand and not be able to run a desander, the mud system carried up to 3% sand.

It was decided to drill ahead from 290 m to 441 m (TD). Further additions of AMC Pac-R were made to keep fluid loss levels at around 8 cc's. KCI was also added to maintain the KCI concentration at around 2%. At TD, circulated the hole clean and made a wiper trip. After again circulating the hole clean, tripped out for electric logs.

Electric logs were run as programmed with the hole in good condition. Once logs were completed, ran back in to hole with open ended drill pipe to 320 m, and circulated and conditioned hole for cementing. Cement plugs were then pumped as programmed for P & A operation.

Operator : Lakes Oil
Well : Patties Pie # 1
Rig : Sides Rig # 1
Spud : 15th March 2003



2. OBSERVATIONS, RECOMMENDATIONS AND WELL ANALYSIS

Patties Pie # 1 was drilled to a total depth of 441 m for a total mud cost of \$5,219.50 or \$11.84 per metre. Apart from minor instances of tight hole, hole conditions were generally good and mud related problems did not occur.

8½" Surface Hole

This section of hole was drilled for \$2,445.00 or \$24.05 per metre with a gel based spud mud. Over half of the interval cost comprised Enerseal (LCM), which was added due to significant down hole losses occurring. Apart from some down hole losses, the remainder of the interval was drilled problem free. Some problems were encountered when running casing, as it hung up at 72 m. However, after circulating, it was run to casing point and successfully cemented.

6-1/8" Production Hole

This section of hole was drilled with a KCl - Polymer mud for a mud cost of \$2,774.50 or \$8.09 per metre. Initially, the section was drilled with a lightly treated KCl Pac based fluid. As drilling continued, the KCl concentration was gradually raised to 2% and the AMC Pac-R concentration was increased also, so as to lower fluid loss to below 10 cc's and increase the yield point. By the time TD was reached, the yield point had risen to 18 lb/100ft² with the fluid loss at 8 cc's. The mud weight had also risen to 9.6 ppg, mainly due to the high sand content.

The overall mud program seems suited to this area. After drilling out the 178 mm casing, properties were slowly improved as drilling continued. This is a more economical approach to building a mud system, as long as hole conditions in the top part of the hole do not suffer as a result.

General Comments

There were some problems in running the mud system on this rig, as compared to more conventional rigs. Mud pits were dug in the ground, solids control equipment was not always operational and mixing facilities were only just adequate. There is no suggestion that improvements or the like have to be made. Shallow holes such as this have their own set of economics and a rig such as this one is probably ideal.

Operator : Lakes Oil
Well : Patties Pie # 1
Rig : Sides Rig # 1
Spud : 15th March 2003



The problems noted, though, are simply stated as an explanation as to how the mud was run and why, and the properties thus attained. For example, the mud weight towards TD increased to around 9.6 ppg, but a 3% sand reading (as the desander did not work) was responsible for 40% of the fluid's drilled solids.

Earlier in the well, cement contamination (due to the re-cementing of the conductor barrel) caused flocculation problems with the spud mud. A lack of agitation also caused problems with maintaining good properties, especially when the mud was standing still over night.



Drilling Fluids

3. INTERVAL COSTS

Product	Interval :		8-1/2" Surface Hole		6-1/8" Production Hole		Total Well Consumption	
	Cost	Unit Size	0 - 98 m		98 m - 441 m (TD)		0 - 441 m (TD)	
			Used	%Cost	Used	%Cost	Used	%Cost
AMC Pac-LV	\$ 177.50	25 kg			1	6.4%	1	3.4%
AMC Pac-R	\$ 177.50	25 kg			6	38.4%	6	20.4%
Ausgel	\$ 13.50	25 kg	84	46.4%			84	21.7%
Caustic Soda	\$ 35.00	20 kg	1	1.4%	2	2.5%	3	2.0%
Defoamer	\$ 145.00	25 lt			2	10.5%	2	5.6%
Enerseal Fine	\$ 52.00	25 kg	24	51.0%			24	23.9%
KCl	\$ 18.00	25 kg			62	40.2%	62	21.4%
Soda Ash	\$ 28.00	25 kg	1	1.1%	2	2.0%	3	1.6%
Totals :				100.0%		100.0%		100.0%
Cost per Metre :			\$24.95		\$8.09		\$5,219.50	\$11.84



4. MATERIALS RECONCILIATION

Well : Patties Pie # 1

PRODUCT	UNIT	TOTAL RECEIVED	TOTAL USED	TRANSFER BALANCE
AMC Pac-LV	25 kg	10	1	9
AMC Pac-R	25 kg	20	6	14
Ausgel	25 kg	126	84	42
Barite	25 kg	160		160
Caustic Soda	20 kg	18	2	16
Defoamer	25 lt	4	2	2
Enerseal Fine	25 kg	24	24	
KCl	25 kg	80	62	18
Lime	20 kg	2		2
Soda Ash	25 kg	4	2	2



Drilling Fluids

5. FLUID PROPERTIES SUMMARY

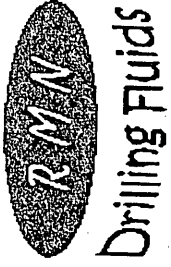
Date	Mud Type	Depth	Weight	Vis	PV	YP	Gels			Filtrate		Solids				pH	Pf	Mf	Cl-	Ca++	KCl
							10 sec	10 min	API	Cake	Solids	Water	Sand	MBT							
15/3/2003	Gel	0	8.60	36	10	6	2	3				98.1			0.20	0.30	300	300			
16/3/2003	Gel	25	8.60	35	10	6	2	3			1.9	99.6		0.20	0.30	300	300				
17/3/2003	Gel	98	8.40	43	11	14	3	4	1		0.4	99.6	1 1/2	0.30	0.30	400	400				
18/3/2003	Gel	98	8.40	43	11	14	2	3	1		Tr	100.0	1 1/2	0.50	0.80	500	400				
19/3/2003	Gel	98	8.40	43	11	14	2	2	1		Tr	100.0	1 1/2	0.50	0.80	500	400				
20/3/2003	KCl Pac	226	8.50	36	4	9	3	3		NC	1.0	99.0	1	0.50	0.90	600	400				
21/3/2003	KCl Pac	290	8.90	47	8	31	3	3		NC	4.0	96.0	1	0.50	0.90	5,500	600			1.0	
22/3/2003	KCl Pac	441	9.60	40	7	18	1	1		8.0	7.5	92.5	3	0.20	1.00	10,000	400			2.0	
22/3/2004	KCl Pac	320	9.60	40	7	18	1	1		8.0	7.5	92.5	3	0.20	1.00	10,000	400			2.0	



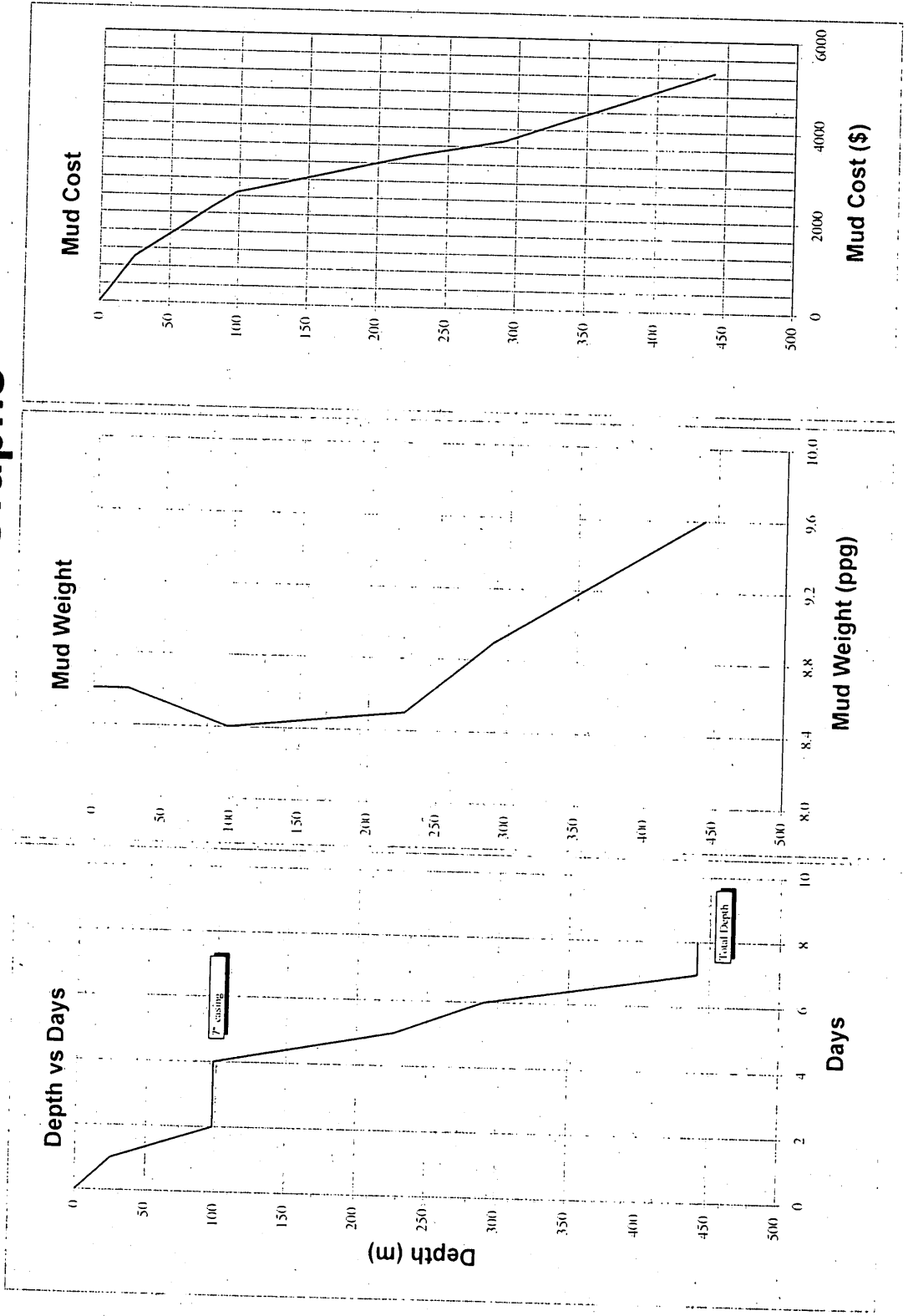
6. Mud Volume Analysis

Date	Hole Size	Interval		Fluid Built & Received					Fluid Disposed					Summary			
		From	To	Mud Type	Fresh Premix	Sump Premix	Direct Recirc	Water	Other	De-sander	De-silter	Down-hole	Dumped	Other	Initial	Received	Disposed
13-Mar-03	8-1/2"	0 m	0 m	Gel										0	0	0	0
14-Mar-03	8-1/2"	0 m	0 m	Gel										0	0	0	0
15-Mar-03	8-1/2"	0 m	25 m	Gel	100						5			0	100	10	90
16-Mar-03	8-1/2"	25 m	25 m	Gel										90	0	0	90
17-Mar-03	8-1/2"	25 m	98 m	Gel	60						46			90	60	56	94
18-Mar-03	8-1/2"	98 m	98 m	Gel										94	0	10	84
Sub Total					100	60	0	0	0	0	0	0	25	160	160	76	
19-Mar-03	6-1/8"	98 m	98 m	KCl Pac				100						84	100	19	165
20-Mar-03	6-1/8"	98 m	226 m	KCl Pac	30						5			165	30	60	135
21-Mar-03	6-1/8"	226 m	290 m	KCl Pac	30			20			5			135	50	40	145
22-Mar-03	6-1/8"	290 m	441 m	KCl Pac	30			60			11			145	90	71	164
23-Mar-03	6-1/8"	441 m	441 m	KCl Pac										164	0	5	159
Sub Total					90	0	0	180	0	0	0	21	0	270	270	195	
Well Total					190	60	0	180	0	0	0	72	0	430	430	271	

Dilution Factors			
Interval Length	Dilution Vol	Dilution Factor	
8 1/2" Surface Hole	98 m	60 bbls	0.6 bbls/m
6-1/8" Production Hole	343 m	270 bbls	0.8 bbls/m

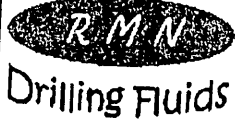


7. Graphs





8. Daily Drilling Fluids Reports



DRILLING FLUID REPORT

Report #	2	Date :	14-Mar-2003
Rig No	1	Spud :	15-Mar-2003
Depth	to		Metres

OPERATOR	Lakes Oil	CONTRACTOR	Sides Engineering
REPORT FOR	Gerard Nicot	REPORT FOR	Peter Freeman
WELL NAME AND No	Patties Pic # 1	FIELD	Wildcat
		LOCATION	Gippsland Basin
		STATE	Victoria

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE	TYPE			SURFACE SET ϕ	ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
DRILL PIPE SIZE	TYPE	Length		INT. SET ϕ	M	TOTAL CIRCULATING VOL.		5.5 X 10	Inches	UP (min)	DOWN (min)
DRILL PIPE SIZE	TYPE	Length	Mtrs	PROD. or LNR Set ϕ	M	IN STORAGE		PUMP MODEL	ASSUMED EFF	BOTTOMS	
DRILL COLLAR SIZE (")		Length	Mtrs	MUD TYPE	M			CLARK		UP (min)	
								BBL/STK	STK/MIN	TOTAL CIRC. TIME (min)	
				AIR				BBL/MIN	GAL / MIN	ANN VEL. (ft/min)	DP (ft/min)

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS	
TIME SAMPLE TAKEN		FL		Mud Weight	API Filtrate
DEPTH (ft) - (m)	Metres			Plastic Vis	Yield Point
FLOWLINE TEMPERATURE	$^{\circ}C$ $^{\circ}F$			KCl	PH/A
WEIGHT	ppg / SG				HPHT Filtrate
FUNNEL VISCOSITY (sec/qt) API \bar{a}	$^{\circ}C$				pH
PLASTIC VISCOSITY cP \bar{a}	$^{\circ}C$				Sulphites
YIELD POINT (lb/100ft ²)					
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min					
FILTRATE API (cc's/30 min)					
HPHT FILTRATE (cc's/30 min) \bar{a}	$^{\circ}F$				
CAKE THICKNESS API: HPHT (32nd in)					
SOLIDS CONTENT (% by Volume)					
LIQUID CONTENT (% by Volume) OIL/WATER					
SAND CONTENT (% by Vol.)					
METHYLENE BLUE CAPACITY (ppb equiv.)					
pH					
ALKALINITY MUD (Pm)					
ALKALINITY FILTRATE (Pf/Mn)					
CHLORIDE (mg/L)					
TOTAL HARDNESS AS CALCIUM (mg/L)					
SULPHITE (mg/L)					
K ⁺ (mg/L)					
KCl (% by Wt.)					
PHPA (ppb)					

OBSERVATIONS

MAKE UP WATER TESTED CHORIDES 300MG/L
HARDNESS 300MG/L
PH 7.5

FIXING MUD SYSTEM TO MIX ADDITIONAL PROPERTIES

OPERATIONS SUMMARY

DRILLED AHEAD 12 1/4" BIT WITH AIR
SET 9 5/8" SURFACE CASING AND CEMENT.

FLUID BUILT & RECEIVED		Mud Accounting (bbls)		SUMMARY	
Premix (drill water)		Desander		INITIAL VOLUME	
Premix (recire from sump)		Desilter		+ FLUID RECEIVED	
Drill Water		Downhole		- FLUID LOST	
Direct Recire Sump		Dumped		+ FLUID IN STORAGE	
Other (eg Diesel)		Other			
TOTAL RECEIVED		TOTAL LOST		FINAL VOLUME	
Product	Price	Start	Received	Used	Close
					Cost

Solids Control Equipment					
Type	Hrs	Cones	Hrs	Shaker #1	Shaker #2
Centrifuge		Desander			
Degasser		Desilter			
Desander		Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)	
Desilter			0		
			0		

Solids Analysis			Bit Hydraulics & Pressure Data		
	ppb	%	Jet Velocity		
High Grav solids			Impact force		
Total LGS			HHP		
Bentonite			HSI		
Drilled Solids			Bit Press Loss		
Salt			CSG Seat Frac Press		
n @ 0 Hrs			Equiv. Mud Wt.		
K @ 0 Hrs			ECD		
			Max Pressure @ Shoe :		

DAILY COST		CUMULATIVE COST	
RMN ENGINEER	KEN PIERCE	CITY	Adelaide Office
		TELEPHONE	08 8338 7266

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DRILLING FLUID REPORT

Report #	4	Date :	16-Mar-2003
Rig No	1	Spud :	15-Mar-2003
Depth	4	to	25 Metres

OPERATOR Lakes Oil		CONTRACTOR Sides Engineering	
REPORT FOR Gerard Nicot		REPORT FOR Peter Freeman	
WELL NAME AND No Patties Pic # 1		FIELD Wildcat	LOCATION Gippsland Basin
		STATE Victoria	
DRILLING ASSEMBLY		CIRCUULATION DATA	
BIT SIZE 8.5	TYPE MH113G	JET SIZE	9 5/8 SURFACE SET @
DRILL PIPE SIZE	TYPE #	Length	Mtrs
DRILL PIPE SIZE	TYPE #	Length	Mtrs
DRILL COLLAR SIZE (")		Length	Mtrs
		MUD TYPE GEL	

MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS	
FL	1.30	Mud Weight	API Filtrate
DEPTH (ft) - (m)	Metres	Plastic Vis	Yield Point
FLOWLINE TEMPERATURE	°C °F	KCl	PHPA
WEIGHT	ppg / SG	OBSERVATIONS	
FUNNEL VISCOSITY (sec/qt) API \bar{a}	°C	CIRCULATED MUD IN MUD PITS, PRESSURE UP 9 5/8 CASING	
PLASTIC VISCOSITY cP \bar{a}	°C	MUD STILL THIN AS ONLY MINOR CLAYS TO BE ENCOUNTERED.	
YIELD POINT (lb/100ft ²)			
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min			
FILTRATE API (cc's/30 min)			
HPHT FILTRATE (cc's/30 min) \bar{a}	°F		
CAKE THICKNESS API : HPHT (32nd in)			
SOLIDS CONTENT (% by Volume)			
LIQUID CONTENT (% by Volume) OIL/WATER			
SAND CONTENT (% by Vol.)			
METHYLENE BLUE CAPACITY (ppb equiv.)			
pH	9.0		
ALKALINITY MUD (Pm)			
ALKALINITY FILTRATE (Pf / Mi)	0.20 0.30		
CHLORIDE (mg/L)	300		
TOTAL HARDNESS AS CALCIUM (mg/L)	300		
SULPHITE (mg/L)			
K+ (mg/L)			
KCl (% by Wt.)			
PHPA (ppb)			

Mud Accounting (bbls)		OPERATIONS SUMMARY	
FLUID BUILT & RECEIVED	FLUID DISPOSED	CHECKED BOP AND ASSOCIATED EQUIPMENT	
Premix (drill water)	Desander	RECEMENT 9 5/8 CASING	
Premix (recire from sump)	Desilter		
Drill Water	Downhole		
Direct Recire Sump	Dumped		
Other (eg Diesel)	Other		
TOTAL RECEIVED	TOTAL LOST		
Product	Price		
Start	Received		
Used	Close		
Cost			

Mud Accounting (bbls)		Solids Control Equipment	
INITIAL VOLUME	90	Type	Hrs
+ FLUID RECEIVED		Cones	Hrs
- FLUID LOST		Shaker #1	20/80
+ FLUID IN STORAGE		Shaker #2	20/80
FINAL VOLUME	90	Overflow (ppg)	Underflow (ppg)
		Output (Gal/Min.)	

Mud Accounting (bbls)		Solids Analysis		Bit Hydraulics & Pressure Data	
Desander		High Gray solids		Jet Velocity	
Desilter		Total LGS		Impact force	
		Bentonite		HHP	
		Drilled Solids		HSI	
		Salt		Bit Press Loss	
		n @ 0 Hrs		CSG Seat Frac Press	
		K @ 0 Hrs		Equiv. Mud Wt.	
				ECD	
				Max Pressure @ Shoe :	

Mud Accounting (bbls)		Solids Analysis		Bit Hydraulics & Pressure Data	
Desander		High Gray solids		Jet Velocity	
Desilter		Total LGS		Impact force	
		Bentonite		HHP	
		Drilled Solids		HSI	
		Salt		Bit Press Loss	
		n @ 0 Hrs		CSG Seat Frac Press	
		K @ 0 Hrs		Equiv. Mud Wt.	
				ECD	
				Max Pressure @ Shoe :	

Mud Accounting (bbls)		Solids Analysis		Bit Hydraulics & Pressure Data	
Desander		High Gray solids		Jet Velocity	
Desilter		Total LGS		Impact force	
		Bentonite		HHP	
		Drilled Solids		HSI	
		Salt		Bit Press Loss	
		n @ 0 Hrs		CSG Seat Frac Press	
		K @ 0 Hrs		Equiv. Mud Wt.	
				ECD	
				Max Pressure @ Shoe :	

RMN ENGINEER KEN PIERCE CITY Adelaide Office TELEPHONE 08 8338 7266

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DRILLING FLUID REPORT

Drilling Fluids

Report #	6	Date :	18-Mar-2003
Rig No	1	Spud :	15-Mar-2003
Depth	98	to	98 Metres

OPERATOR	Lakes Oil	CONTRACTOR	Sides Engineering
REPORT FOR	Gerard Nicot	REPORT FOR	Peter Freeman
WELL NAME AND No	Patties Pic # 1	FIELD	Wildcat
		LOCATION	Gippsland Basin
		STATE	Victoria

DRILLING ASSEMBLY		JET SIZE	CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE	TYPE		7"	SURFACE SET @	295 ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
DRILL PIPE SIZE	TYPE	Length		90	M	10	74	5.5 X 10	Inches	BOTTOMS UP (min)	
DRILL PIPE SIZE	TYPE	Length		INT. SET @	ft	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	TOTAL CIRC. TIME (min)	
DRILL PIPE SIZE	HW	Mtrs		PROD. or LNR Set @	M	IN STORAGE		CLARK	95.0	ANN VEL. (ft/min)	
DRILL COLLAR SIZE (")		Mtrs			M			BBL/STK	STK/MIN	DP (ft)	
		Mtrs		MUD TYPE	GEL			BBL/MIN	GAL/MIN	DCs	

SAMPLE FROM	MUD PROPERTIES	
TIME SAMPLE TAKEN	FL	10.30
DEPTH (ft) - (m)	Metres	98
FLOWLINE TEMPERATURE	°C	°F
WEIGHT	ppg / SG	8.40 1.008
FUNNEL VISCOSITY (sec/qt) API a	°C	43
PLASTIC VISCOSITY cP a	°C	11
YIELD POINT (lb/100ft ²)		14
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		33
FILTRATE API (cc's/30 min)		
HPHT FILTRATE (cc's/30 min) a	°F	
CAKE THICKNESS API : HPHT (32nd in)		1
SOLIDS CONTENT (% by Volume)		
LIQUID CONTENT (% by Volume) OIL/WATER		
SAND CONTENT (% by Vol.)		1.50
METHYLENE BLUE CAPACITY (ppb equiv.)		
pH		8.0
ALKALINITY MUD (Pm)		
ALKALINITY FILTRATE (Pf / Mi)		
CHLORIDE (mg/L)	0.50	0.80
TOTAL HARDNESS AS CALCIUM (mg/L)	500	
SULPHITE (mg/L)	400	
K+ (mg/L)		
KCl (% by Wt.)		
PHPA (ppb)		

Mud Weight	API Filtrate	HPHT Filtrate
Plastic Vis	Yield Point	pH
KCl	PHPA	Sulphites

OBSERVATIONS

CIRCULATED AND CONDITION HOLE FOR CASING

CEMENT WEIGHT 15.3 LBS/ GAL

OPERATIONS SUMMARY

RIG UP FOR RUNNING OF 9 5/8" CASING WITH CIRCULATING HEAD

RIG UP CEMENT EQUIPMENT. SAFETY MEETING.

CIRCULATE AND CEMENTING. DISPLACE.

RIG DOWN CEMENT EQUIPMENT

Mud Accounting (bbls)			
FLUID BUILT & RECEIVED		FLUID DISPOSED	
Premix (drill water)		Desander	
Premix (recire from sump)		Desilter	
Drill Water		Downhole	
Direct Recire Sump		Dumped	
Other (eg Diesel)		Other	10
TOTAL RECEIVED		TOTAL LOST	10
Product	Price	Start	Received
		Used	Close
			Cost

SUMMARY			
INITIAL VOLUME	94		
+ FLUID RECEIVED			
+ FLUID LOST	10		
+ FLUID IN STORAGE			
FINAL VOLUME	84		

SOLIDS CONTROL EQUIPMENT	
Type	Hrs
Centrifuge	
Degasser	
Cones	Hrs
Desander	
Desilter	
Shaker #1	20/80
Shaker #2	20/80
Size	Hrs
Desander	Overflow (ppg)
Desilter	Underflow (ppg)
	Output (Gal/Min.)

SOLIDS ANALYSIS		BIT HYDRAULICS & PRESSURE DATA	
High Grav solids	PPB	%	Jet Velocity
Total LGS			Impact force
Bentonite			HHP
Drilled Solids			HSI
Salt			Bit Press Loss
n @ Hrs			CSG Seat Frac Press
K @ Hrs			Equiv. Mud Wt.
			ECD
			Max Pressure @ Shoe :

RMN ENGINEER	KEN PIERCE	CITY	Adelaide Office
DAILY COST		CUMULATIVE COST	
		\$2,487.00	
TELEPHONE		08 8338 7266	



DRILLING FLUID REPORT

Report #	7	Date :	19-Mar-2003
Rig No	1	Spud :	15-Mar-2003
Depth	98	to	98 Metres

OPERATOR	Lakes Oil	CONTRACTOR	Sides Engineering
REPORT FOR	Gerard Nicot	REPORT FOR	Peter Freeman
WELL NAME AND No	Patties Pic # 1	FIELD	Wildcat
		LOCATION	Gippsland Basin
		STATE	Victoria

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
BIT SIZE	TYPE	Length	Mtrs	7" SURFACE SET @	295 ft	HOLE	PITS	PUMP SIZE		CIRCULATION			
DRILL PIPE SIZE	TYPE	Length	Mtrs	INT. SET @	90 M	10	155	5.5 X 10	Inches	PRESS (PSD)	psi		
DRILL PIPE SIZE	TYPE	Length	Mtrs	PROD. or LSR Set @	M	TOTAL CIRCULATING VOL.	165	PUMP MODEL	CLARK	ASSUMED EFF	95.0	BOTTOMS UP (min)	min
DRILL COLLAR SIZE (")	TYPE	Length	Mtrs	MUD TYPE	GEL	IN STORAGE		BBL/STK	STK / MIN	66	TOTAL CIRC. TIME (min)	min	
								BBL/MIN	GAL / MIN		ANN VEL. (ft/min)	DP (DC)	

MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS			
SAMPLE FROM	FL	Mud Weight	API Filtrate	HPHT Filtrate			
TIME SAMPLE TAKEN	10.00	Plastic Vis	Yield Point	pH			
DEPTH (ft) - (m)	98 Metres	KCI	PHPA	Sulphites			

FLOWLINE TEMPERATURE	°C °F			OBSERVATIONS FILLED DAY TANKS AND PITS WITH TRUCK LOAD OF FRESH WATER
WEIGHT	ppg / SG	8.40	1.008	
FUNNEL VISCOSITY (sec/qt) API @	°C	43		
PLASTIC VISCOSITY cP @	°C	11		
YIELD POINT (lb/100ft ²)		14		
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		2	2	
FILTRATE API (cc's/30 min)				
HPHT FILTRATE (cc's/30 min) @	°F			
CAKE THICKNESS API : HPHT (32nd in)		1		
SOLIDS CONTENT (% by Volume)				

LIQUID CONTENT (% by Volume) OIL/WATER				OPERATIONS SUMMARY PREPARE 9 5/8" CASING FOR BRADENHEAD NIPPLE UP B. O. P. NIPPLE UP CHOKE AND KILL FLOW LINE REESTABLISH SURFACE PAD NIPPLE UP FLOW LINE MAKE UP COLLAR, READY, RUN INTO TEST BOP RAMS
SAND CONTENT (% by Vol.)	1.50			
METHYLENE BLUE CAPACITY (ppb equiv.)				
pH	8.0			
ALKALINITY MUD (Pm)				
ALKALINITY FILTRATE (Pf / M)	0.50	0.80		
CHLORIDE (mg/L)	500			
TOTAL HARDNESS AS CALCIUM (mg/L)	400			
SULPHITE (mg/L)				
K+ (mg/L)				

Mud Accounting (bbls)				Solids Control Equipment							
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Sire	Hrs
Premix (drill water)		Desander		INITIAL VOLUME	84	Centrifuge		Desander		Shaker #1	20/80
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED	100	Degasser		Desilter		Shaker #2	20/80
Drill Water	100	Downhole		- FLUID LOST	19						
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE							
Other (eg Diesel)		Other	19								
TOTAL RECEIVED	100	TOTAL LOST	19	FINAL VOLUME	95	Desander		Desilter			
								Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)	
									0		
									0		

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
							PPB	%	Jet Velocity	
							High Grav solids		Impact force	
							Total LGS		HHP	
							Bentonite		HSI	
							Drilled Solids		Bit Press Loss	
							Salt		CSG Seat Frac Press	
							n @ Hrs		Equiv. Mud Wt.	
							K @ Hrs		ECD	
									Max Pressure @ Shoe :	

						DAILY COST	CUMULATIVE COST
RMN ENGINEER	KEN PIERCE	CITY	Adelaide Office	TELEPHONE	08 8338 7266		



DRILLING FLUID REPORT

Report #	8	Date :	20-Mar-2003
Rig No	1	Spud :	15-Mar-2003
Depth	98	to	226 Metres

OPERATOR	Lakes Oil	CONTRACTOR	Sides Engineering
REPORT FOR	Gerard Nicot	REPORT FOR	Peter Freeman
WELL NAME AND No	Patties Pic # 1	FIELD	Wildcat
		LOCATION	Gippsland Basin
		STATE	Victoria

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE	TYPE			7" SURFACE SET @	295 ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
DRILL PIPE SIZE	TYPE	Length		INT. SET @	90 M	25	110	5.5	X	10	psl
DRILL PIPE SIZE	TYPE	Length		PROD. or LNR Set @	M	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSEMBLED EFF	BOTTOMS UP (min)	
DRILL COLLAR SIZE (")	TYPE	Length		MUD TYPE	M	IN STORAGE		CLARK	80.0	TOTAL CIRC. TIME (min)	
4.75		83	Mtrs	KCl Pac				BBL/STK	STK/MIN	ANN VEL. (ft/min)	DP DC's

MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS	
SAMPLE FROM	FL	Mud Weight	API Filtrate
TIME SAMPLE TAKEN	4.00	Plastic Vis	Yield Point
DEPTH (ft) - (m)	Metres	KCl	PHPA
FLOWLINE TEMPERATURE	°C °F	OBSERVATIONS	
WEIGHT	ppg / SG	INITIALLY BUILT MUD TO 2.5 % KCl AND STARTED DRILLING. ADDING PAC L TO GIVE ADDITIONAL PROPERTIES TREATED MUD TO CONTROL CEMENT CONTAMINATION	
FUNNEL VISCOSITY (sec/qt) API @	°C	OPERATIONS SUMMARY	
PLASTIC VISCOSITY cP @	°C	PRESSURE TEST BRADIN AND CHOKE RUN IN BEA AND DRILLED OUT CEMENT SHOE AND PLUG DRILL AHEAD TO 226M	
YIELD POINT (lb/100ft²)			
GEL STRENGTHS (lb/100ft²) 10 sec/10 min			
FILTRATE API (cc's/30 min)			
HPHT FILTRATE (cc's/30 min) @	°F		
CAKE THICKNESS API: HPHT (32nd in)			
SOLIDS CONTENT (% by Volume)			
LIQUID CONTENT (% by Volume) OIL/WATER			
SAND CONTENT (% by Vol.)	1.00		
METHYLENE BLUE CAPACITY (ppb equiv.)			
pH	9.5		
ALKALINITY MUD (Pm)			
ALKALINITY FILTRATE (Pf / Mt)	0.50 0.90		
CHLORIDE (mg/L)	600		
TOTAL HARDNESS AS CALCIUM (mg/L)	400		
SULPHITE (mg/L)			
K+ (mg/L)			
KCl (% by Wt.)			
PHPA (ppb)			

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)	30	Desander		INITIAL VOLUME	165	Centrifuge		Desander		Shaker #1	20/80	12
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED	30	Degasser		Desilter		Shaker #2	20/80	12
Drill Water		Downhole	5	- FLUID LOST	10							
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE								
Other (eg Diesel)		Other	5									
TOTAL RECEIVED	30	TOTAL LOST	10	FINAL VOLUME	135	Desander		Underflow (ppg)	0	Output (Gal/Min.)		
						Desilter			0			

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
AMC Pac-LV	\$ 177.50	10		1	9	\$ 177.50	PPB	%	Jet Velocity	
Deframer	\$ 145.00	4		2	2	\$ 290.00	High Grav solids		Impact force	
KCl	\$ 19.75	80		20	60	\$ 395.00	Total LGS		HHP	
Soda Ash	\$ 28.00	3		1	2	\$ 28.00	Bentonite		HSI	
							Drilled Solids		Bit Press Loss	
							Salt		CSG Seat Frac Press	
							n @ Hrs		Equiv. Mud Wt.	
							K @ Hrs		ECD	
									Max Pressure @ Shoe :	

DAILY COST						CUMULATIVE COST					
\$890.50						\$3,377.50					
RMN ENGINEER		KEN PIERCE		CITY		Adelaide Office		TELEPHONE		08 8338 7266	

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DRILLING FLUID REPORT

Report #	10	Date :	22-Mar-2003
Rig No	1	Spud :	15-Mar-2003
Depth	290	to	441 Metres

OPERATOR Lakes Oil				CONTRACTOR Sides Engineering										
REPORT FOR Gerard Nicot				REPORT FOR Peter Freeman										
WELL NAME AND No Patties Pic # 1				FIELD Wilcat		LOCATION Gippsland Basin		STATE Victoria						
DRILLING ASSEMBLY			JET SIZE			CASING			MUD VOLUME (BBL)			CIRCULATION DATA		
BIT SIZE	TYPE	REED	14	14	12	7"	SURFACE SET @	295 ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
6.125							90	M	45	119	5.5 X 10	Inches	600 psi	
DRILL PIPE SIZE	TYPE	G #	Length	358	Mtrs	INT. SET @	TOTAL CIRCULATING VOL.			PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)		
3.5							164			CLARK	80.0	min		
DRILL PIPE SIZE	TYPE	HV	Length		Mtrs	PROD. or LNR Set @	IN STORAGE			BBL/STK	STK / MIN	TOTAL CIRC. TIME (min)		
										0.0935	48	min		
DRILL COLLAR SIZE (")	Length		83		Mtrs	MUD TYPE	KCI Pac			BBL/MIN	GAL/SHN	ANN VEL. (ft/min)	DP	DC's
4.75										3.59	151			

SAMPLE FROM				FL				MUD WEIGHT				API Filtrate				HPHT Filtrate			
TIME SAMPLE TAKEN				7.00				Plastic Vis				Yield Point				pH			
DEPTH (ft) - (m)				Metres 441				KCI				PHPA				Sulphites			

FLOWLINE TEMPERATURE				°C				°F				OBSERVATIONS DILUTED TO MAINTAIN MUD WEIGHT. ADDED KCL . PAC R TO GIVE ADDITIONAL PROPERTIES. ADDED CAUSTIC TO MAINTAIN PH LEVEL.											
WEIGHT				ppg / SG				9.60 1.152															
FUNNEL VISCOSITY (sec/qt) API a				°C				40															
PLASTIC VISCOSITY cP · a				°C				7															
YIELD POINT (lb/100ft ²)								18															
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min								11															
FILTRATE API (cc's/30 min)								8.0															
HPHT FILTRATE (cc's/30 min) · a				°F																			
CAKE THICKNESS API : HPHT (32nd in)								1															
SOLIDS CONTENT (% by Volume)																							

SAND CONTENT (% by Vol.)				3.00				OPERATIONS SUMMARY TRIP IN, DRILLED AHEAD FROM 290M TO 441M CIRCULATE, PULL BACK FOR WIPER TRIP CIRCULATE, TRIP OUT BIT FOR LOGGING RIG UP LOGGING TOOLS, RUN LOGS AS PROGRAMED											
METHYLENE BLUE CAPACITY (ppb equiv.)				10.0															
pH				9.5															
ALKALINITY MUD (Pm)																			
ALKALINITY FILTRATE (Pt / Mt)				0.20 1.00															
CHLORIDE (mg/L)				10,000															
TOTAL HARDNESS AS CALCIUM (mg/L)				400															
SULPHITE (mg/L)																			
K+ (mg/L)																			
KCI (% by Wt.)				2.0															

Mud Accounting (bbls)						Solids Control Equipment											
FLUID BUILT & RECEIVED			FLUID DISPOSED			SUMMARY			Type	Hrs	Cones	Hrs	Size	Hrs			
Premix (drill water)	30		Desander			INITIAL VOLUME	145	Centrifuge			Desander		Shaker #1	20/80	12		
Premix (recirc from sump)			Desilter					Degasser			Desilter		Shaker #2	20/80	12		
Drill Water	60		Downhole	11		+ FLUID RECEIVED	90										
Direct Recirc Sump			Dumped			- FLUID LOST	71										
Other (eg Diesel)			Other	60		+ FLUID IN STORAGE											
TOTAL RECEIVED	90		TOTAL LOST	71		FINAL VOLUME	164	Desander			0						
								Desilter			0						

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data		
AMC Pac-R	\$ 177.50	19		5	14	\$ 887.50	ppb	%	Jet Velocity			
Caustic Soda	\$ 35.00	17		1	16	\$ 35.00	High Grav solids			Impact force		
KCI	\$ 19.75	51		33	18	\$ 651.75	Total LGS			HHP		
							Bentonite			HSI		
							Drilled Solids			Bit Press Loss		
							Salt			CSG Seat Frac Press		
							n @ Hrs			Equiv. Mud Wt.		
							K a Hrs			ECD		
										Max Pressure a Shoe :		
							DAILY COST			CUMULATIVE COST		
							\$1,574.25			\$5,307.00		

is made by our selves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of same



DRILLING FLUID REPORT

Report #	11	Date :	23-Mar-2002
Rig No	1	Spud :	15-Mar-2003
Depth	441	to	441 Metres

OPERATOR Lakes Oil		CONTRACTOR Sides Engineering	
REPORT FOR Gerard Nicot		REPORT FOR Peter Freeman	
WELL NAME AND No Patties Pic # 1		FIELD Wildcat	LOCATION Gippsland Basin
		STATE Victoria	
DRILLING ASSEMBLY		MUD VOLUME (BBL)	
JET SIZE		CIRCULATION DATA	
BIT SIZE	TYPE	SURFACE SET ϕ	HOLE PITS
OPEN PIPE		295 ft	45
DRILL PIPE TYPE	Length	90 M	114
SIZE 3.5	G #	INT. SET ϕ	TOTAL CIRCULATING VOL.
DRILL PIPE TYPE	Length	ft	159
SIZE	Mtrs	PROD. or LNR Set ϕ	IN STORAGE
DRILL COLLAR SIZE (")	Length	MUD TYPE	
	Mtrs	KCI Pac	

MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS	
SAMPLE FROM	FL	Mud Weight	API Filtrate
TIME SAMPLE TAKEN	10.30	Plastic Vis	Yield Point
DEPTH (ft) - (m)	Metres 320	KCI	PHPA
FLOWLINE TEMPERATURE	$^{\circ}C$ $^{\circ}F$	OBSERVATIONS	
WEIGHT	ppg / SG 9.60 1.152		
FUNNEL VISCOSITY (sec/qt) API \bar{u}	$^{\circ}C$ 40		
PLASTIC VISCOSITY cP \bar{u}	$^{\circ}C$ 7		
YIELD POINT (lb/100ft ²)	18		
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min	11		
FILTRATE API (cc's/30 min)	8.0		
HPHT FILTRATE (cc's/30 min) \bar{u}	$^{\circ}F$		
CAKE THICKNESS API : HPHT (32nd in)	1		
SOLIDS CONTENT (% by Volume)			
LIQUID CONTENT (% by Volume) OIL/WATER			
SAND CONTENT (% by Vol.)	3.00		
METHYLENE BLUE CAPACITY (ppb equiv.)	10.0		
pH	9.5		
ALKALINITY MUD (Pm)			
ALKALINITY FILTRATE (Pf / Ml)	0.20 1.00		
CHLORIDE (mg/L)	10,000		
TOTAL HARDNESS AS CALCIUM (mg/L)	400		
SULPHITE (mg/L)			
K+ (mg/L)			
KCl (% by Wt.)	2.0		
PHPA (ppb)			

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)		Desander		INITIAL VOLUME	164	Centrifuge		Desander		Shaker #1	20/80	3
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED		Degasser		Desilter		Shaker #2	20/80	3
Drill Water		Downhole										
Direct Recirc Sump		Dumped		- FLUID LOST	5	Overflow (ppg) Underflow (ppg) Output (Gal/Min.)						
Other (eg Diesel)		Other	5	+ FLUID IN STORAGE								
TOTAL RECEIVED		TOTAL LOST	5	FINAL VOLUME	159	Desander		0				
						Desilter		0				

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
							PPB	%	Jet Velocity	Impact force
							High Grav solids		HHP	
							Total LGS		HSI	
							Bentonite		Bit Press Loss	
							Drilled Solids		CSG Seat Frac Press	
							Salt		Equiv. Mud Wt.	
							n @ Hrs		ECD	
							K @ Hrs		Max Pressure @ Shoe :	

						DAILY COST	CUMULATIVE COST
							\$5,307.00
RMN ENGINEER	KEN PIERCE	CITY	Adelaide Office	TELEPHONE			08 8338 7266



DRILLING FLUID REPORT

Report #	11	Date :	23-Mar-2002
Rig No	1	Spud :	15-Mar-2003
Depth	441	to	441 Metres

OPERATOR Lakes Oil		CONTRACTOR Sides Engineering	
REPORT FOR Gerard Nicot		REPORT FOR Peter Freeman	
WELL NAME AND No Patties Pic # 1		FIELD Wildcat	LOCATION Gippsland Basin
		STATE Victoria	
DRILLING ASSEMBLY		JET SIZE	CASING
BIT SIZE	TYPE	7"	SURFACE SET @ 295 ft
DRILL PIPE SIZE	TYPE	320	INT. SET @ 90 ft
DRILL PIPE SIZE	TYPE		PROD. or LNR Set @
DRILL COLLAR SIZE (")	Length	Mtrs	MUD TYPE KCl Pac
MUD VOLUME (BBL)		CIRCULATION DATA	
HOLE	PITS	PUMP SIZE	CIRCULATION PRESS (PSI)
45	114	5.5 X 10	Inches
TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF
159		CLARK	80.0
IN STORAGE		BBL/STK	STK / MIN
		0.0935	48
		BBL/MIN	GAL / MIN
		3.59	151
			ANN VEL. (ft/min)
			DP (ft/min)

MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS			
SAMPLE FROM	FL	Mud Weight	API Filtrate	HPHT Filtrate			
TIME SAMPLE TAKEN	10.30	Plastic Vis	Yield Point	pH			
DEPTH (ft) - (m)	320	KCl	PHPA	Sulphites			
FLOWLINE TEMPERATURE	°C °F	OBSERVATIONS CEMENT WEIGHT 15 LBS/GAL FINAL STOCK TAKE PACK LAB UP					
WEIGHT	ppg / SG						
FUNNEL VISCOSITY (sec/qt) API @	°C						
PLASTIC VISCOSITY cP @	°C						
YIELD POINT (lb/100ft ²)							
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min							
FILTRATE API (cc's/30 min)							
HPHT FILTRATE (cc's/30 min) @	°F						
CAKE THICKNESS API : HPHT (32nd in)							
SOLIDS CONTENT (% by Volume)							
LIQUID CONTENT (% by Volume) OIL/WATER							
SAND CONTENT (% by Vol.)	3.00	OPERATIONS SUMMARY RUN IN OPEN PIPE TO 320M CIRCULATE AND CONDITION HOLE CEMENT AS PROGRAMED FOR P & A					
METHYLENE BLUE CAPACITY (ppb equiv.)	10.0						
pH	9.5						
ALKALINITY MUD (Pm)							
ALKALINITY FILTRATE (Pf / Mf)	0.20 1.00						
CHLORIDE (mg/L)	10,000						
TOTAL HARDNESS AS CALCIUM (mg/L)	400						
SULPHITE (mg/L)							
K+ (mg/L)							
KCl (% by Wt.)	2.0						
PHPA (ppb)							

Mud Accounting (bbls)				Solids Control Equipment					
FLUID BUILT & RECEIVED	FLUID DISPOSED	SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs
Remix (drill water)	Desander	INITIAL VOLUME	164	Centrifuge		Desander		Shaker #1	20/80
Remix (recirc from sump)	Desilter			Degasser		Desilter		Shaker #2	20/80
Drill Water	Downhole	+ FLUID RECEIVED							
Direct Recirc Sump	Dumped	- FLUID LOST	5						
Other (eg Diesel)	Other	+ FLUID IN STORAGE							
TOTAL RECEIVED	TOTAL LOST	FINAL VOLUME	159	Desander		0			
				Desilter		0			

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
							PPB	%	Jet Velocity	
									Impact force	
									HHP	
									HSI	
									Bit Press Loss	
									CSG Seat Frac Press	
							n @	Hrs	Equiv. Mud Wt.	
							K @	Hrs	ECD	
									Max Pressure @ Shoe :	
							DAILY COST		CUMULATIVE COST	
									\$5,307.00	

is made by our selves or our agents as to its correctness or completeness, and no liability is assumed for any damages result from the use of same

APPENDIX 4

WELL LOCATION SURVEY



AUSTEC SURVEYING CONSULTANTS PTY LTD
ACN 006 347 100
 TITLE & ENGINEERING SURVEYORS :: LAND DEVELOPMENT CONSULTANTS

Ref 03300.C01
24/06/03

Lakes Oil N.L.
P.O. Box 300
Collins Street West
Melbourne, 8007.

Att: Mr J. Mulready
Re: Wellsite Surveys
Location: Bayview Road, Bairnsdale
And Bunga Creek, Lakes Entrance.

Further to your request we have completed the co-ordination of the bore holes at Bairnsdale and Lakes Entrance.

Jones Bay-1 E 559212.975 N 5809565.222 RL 2.200 PSF 0.99964318
 Patties Pies-1 E 559321.145 N 5810466.907 RL 2.280 PSF 0.99964334
 Datum: Parish of Broadlands PM 35
 Parish of Bairnsdale StMarys Spire

Bunga Creek-1 E 589376.388 N 5809860.128 RL 60.600 PSF 0.99969839
 Bunga Creek-2 E 591192.088 N 5810294.796 RL 43.890 PSF 0.99970242
 Datum: Parish of Colquhoun PM's 32 & 33

- The above co-ords have been deduced from ground survey work to an estimated accuracy of +/- 0.02m.
- The co-ords are to the centre line at ground level of the bores, except for "Jones Bay-1" This bore has not yet been drilled. The co-ords are to the centre of the northern edge of a dirt ramp, at a distance of 7.45m on Magnetic Brg of about 7⁰ from a steel (GI) stake placed on site.

Yours Faithfully,

Bruce Bowden.
Licensed Surveyor

PE613639

This is an enclosure indicator page.
The enclosure PE613639 is enclosed within the
container PE909989 at this location in this
document.

The enclosure PE613639 has the following characteristics:

ITEM_BARCODE = PE613639
CONTAINER_BARCODE = PE909989
 NAME = Patties Pies-1 Composite Well Log.
 1:500
 BASIN = GIPPSLAND
 ONSHORE? = Y
 DATA_TYPE = WELL
 DATA_SUB_TYPE = COMPOSITE_LOG
 DESCRIPTION = Patties Pies-1 Composite Well Log.
 1:500. Lakes Oil N.L. October 2003
 REMARKS =
 DATE_WRITTEN = 31-OCT-2003
DATE_PROCESSED =
DATE_RECEIVED =
RECEIVED_FROM = Lakes Oil N.L.
 WELL_NAME = Patties Pies-1
CONTRACTOR =
 AUTHOR =
 ORIGINATOR = Lakes Oil N.L.
 TOP_DEPTH = 83
 BOTTOM_DEPTH = 439
ROW_CREATED_BY = DH00_SW

(Inserted by DNRE - Vic Govt Mines Dept)

PE613640

This is an enclosure indicator page.
The enclosure PE613640 is enclosed within the
container PE909989 at this location in this
document.

The enclosure PE613640 has the following characteristics:

ITEM_BARCODE = PE613640
CONTAINER_BARCODE = PE909989
NAME = Patties Pies-1 Sonic Log. 1:200
BASIN = GIPPSLAND
ONSHORE? = Y
DATA_TYPE = WELL
DATA_SUB_TYPE = WELL_LOG
DESCRIPTION = Patties Pies-1
 HALS-BHC-TLD-MCFL-CALI-CNL-GR-SP
 HALS-Sonic-PEX Log. 1:200. By
 Schlumberger for Lakes Oil N.L. March
 2003
REMARKS =
DATE_WRITTEN = 22-MAR-2003
DATE_PROCESSED =
DATE_RECEIVED =
RECEIVED_FROM = Lakes Oil N.L.
WELL_NAME = Patties Pies-1
CONTRACTOR = Schlumberger
AUTHOR =
ORIGINATOR = Lakes Oil N.L.
TOP_DEPTH = 83
BOTTOM_DEPTH = 439
ROW_CREATED_BY = DH00_SW

(Inserted by DNRE - Vic Govt Mines Dept)

PE613641

This is an enclosure indicator page.
The enclosure PE613641 is enclosed within the
container PE909989 at this location in this
document.

The enclosure PE613641 has the following characteristics:

ITEM_BARCODE = PE613641
CONTAINER_BARCODE = PE909989
NAME = Patties Pies-1 Sonic Log. 1:500
BASIN = GIPPSLAND
ONSHORE? = Y
DATA_TYPE = WELL
DATA_SUB_TYPE = WELL_LOG
DESCRIPTION = Patties Pies-1
HALS-BHC-TLD-MCFL-CALI-CNL-GR-SP
HALS-Sonic-PEX Log. 1:500. By
Schlumberger for Lakes Oil N.L. March
2003
REMARKS =
DATE_WRITTEN = 22-MAR-2003
DATE_PROCESSED =
DATE_RECEIVED =
RECEIVED_FROM = Lakes Oil N.L.
WELL_NAME = Patties Pies-1
CONTRACTOR = Schlumberger
AUTHOR =
ORIGINATOR = Lakes Oil N.L.
TOP_DEPTH = 83
BOTTOM_DEPTH = 439
ROW_CREATED_BY = DH00_SW

~~(Inserted by DNRE - Vic Govt Mines Dept)~~