

## 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 <sup>st</sup> of March 2003, when a second crew was on hand prior to drilling the Latrobe section and logging.

# Time vs Depth Patties Pies-1

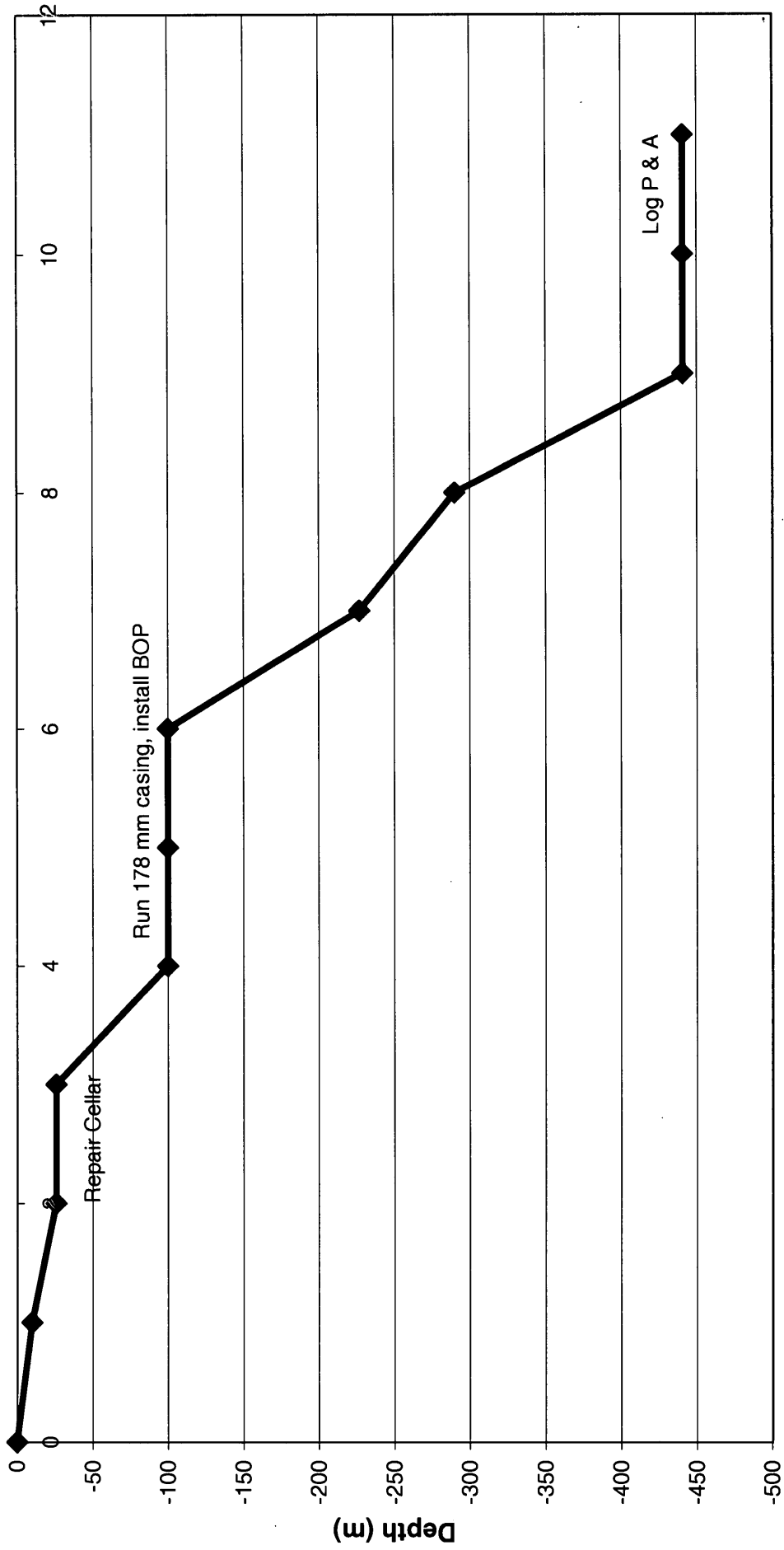


Figure 2

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.

**Hole Sizes and Depths:**

12.25" / 311 mm. to 10 m.  
 8.5" / 216 mm. to 84.34 m.  
 6.125" / 156 mm. to Total Depth (441 m)

**Casing and Cementing:**Surface

Size - 9.625" / 244 mm.  
 Weight - 64.9kg/m.  
 Grade - K55  
 Shoe Setting Depth - 10 m..

Intermediate

Size - 7" / 178mm.  
 Weight - 34.2kg/m.  
 Grade - K55  
 Shoe Setting Depth - 84.34 m.  
 Quantity of Cement - 2.1 cubic metres "A".

**Deviation Surveys :**

Nil

**Drilling Fluid:**

- |     |               |  |
|-----|---------------|--|
| (a) | Spud - 100 m. | Type - Gel Spud Mud<br>Additives - Ausgel, Soda ash, Caustic, Enerseal-F.                      |
| (b) | 100-441 m.    | Type - KCl -Polymer<br>Additives - KCl Tech, Auspac LV, Auspac-R, Caustic, Soda Ash, Defoamer. |

See also Drilling Fluid Report Appendix 3 for greater detail.

**Water Supply:**

Water was trucked by tanker from Sale.

**Perforation Record:**

None

**Plugging and Cementing:**

Plug 1. 325 -265 m.  
 Plug 2. 165-110 m.

**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 42<sup>0</sup>C

**Velocity Survey:**

None