

2.0 WELL HISTORY

2.1 GENERAL DATA

Well Name and Number	Deadman Hill No.1
Location	515827 E 5772245 N
Elevations	G.L. 58.6 m A.S.L. R.T. 59.6 m A.S.L. Latitude 38° 11' 50.9" S Longitude 147° 10' 50.7" E
Petroleum Tenement	PEP 157
Name of Operator	LAKES OIL N.L. A.C.N. 004 247 214 11 TH Level, 500 Collins Street, Melbourne.
Other Participants	None
Date Drilling Commenced	12 th May, 2002
Date Drilling Completed	28 th May, 2002
Date Rig Released	30 th May, 2002
Drilling Time to T.D.	18 days
Total Depth	839 m.
Status	Plugged and abandoned

2.2 RIG DATA

2.2.1	Drilling Contractor	Sides Engineering Pty Ltd 25 Garden Road, Clayton, Vic. 3168
2.2.2	Rig	Bourne 2000THD
2.2.3	Rig Carrier	Twin Steer Tri-axle
2.2.4	Weight Indicator	Hydraulic Pressure
2.2.5	Power	Cummins - Truck Engine
2.2.6	Rotary	Top Drive
2.2.7	Blocks	Not applicable
2.2.8	Pumps	Clarke 5.5X10 3 Cylinder Duplex
2.2.9	Mud mixing	Gardner Denver Duplex
2.2.10	Sump pump	Not applicable
2.2.11	Transfer Pump	Wreckair - Worm Drive
2.2.12	Tubulars	3.5" X 13.30 D.P. & 2.875" D.P.
2.2.13	Fishing Tools	None on Site
2.2.14	Handling Tools	Rented Tasman
2.2.15	Stablizer	12.25", 8.5" , 6"
2.2.16	Spare Parts	As reasonably required to conduct operations for programmed well.
2.2.17	Personnel	Driller plus 4 crew
2.2.18	Operation hours	Rig Operated Daylight Hours Only.

2.3 DRILLING DATA

2.3.1 The following is the daily operations summary for Deadman Hill No.1. It has been compiled from the daily drilling reports. Onsite drilling supervision for Lakes Oil N.L. was provided by W. Westman. Refer also to the time/depth curve (Figure 3).

DATE	HOURS	OPERATION
12-05-02	0 7.5 0.5 1.0 0.5	Spud Deadman Hill No.1 at 0900 hrs 12 th May, 2002. Drill 12.25" hole to 60m. Circulate hole clean. POOH. Shut down for night.
13-05-02	0.5 1.0 1.0 1.5 6.0 0.5	Travel from town. Start up. RIH to bottom. 6" of fill. Circulate clean. POOH. Rig up and run 9.625" casing, cement casing. Shut down for night.
14-05-02	0.5 11.0 0.5	Travel from town. Start up. Back out landing joint. Rig up Braden Head, BOP's, Koomey, Choke Manifold and Flare Line. Mix drilling mud. Function and pressure test BOP's, Choke Manifold and Koomey Shut down for night.
15-05-02	0.5 1.5 0.5 1.0 1.0 4.5 0.5 0.5 0.5	Travel from town. Start up. Make up BHA, RIH. Safety meeting - all personnel RIH with 8.5" drilling assembly. Drill out plug, shoe and rat hole. Drill 8.5" hole from 60 - 204m. Circulate and condition mud. POOH 5 joints Shut down for night.
16-05-02	0.5 1.5 0.5 3.0 1.0 3.5 0.5 1.0 0.5	Travel from town. Start up. Install kelly cock. RIH with 8.5" drilling assembly. Drill 8.5" hole 204-335m. Total loss of returns. Fill hole from top and allow to heal. Lost 40bbbls. Drill 8.5" hole 335-411m. Circulate and condition mud. POOH 17 joints. Shut down for night.
17-05-02	0.5 2.0 0.5 1.0 1.5 4.0 0.5 0.5 0.5	Travel from town. Start up. Work on flowline. Fit pipe to direct flow to bottom of possum belly. RIH with 8.5" drilling assembly. Tag fill at 398m. Ream 398-411m. Circulate. Drill 8.5" hole 411-418m. Circulate and condition mud. Drill 8.5" hole 418-519m. Circulate and condition mud. POOH 20 joints. Shut down for night.

18-05-02	0.5 1.0 1.0 1.5 1.5 0.5 4.5 1.0 0.5	Travel from town. Start up. RIH with 8.5" drilling assembly. Tag fill at 514m. Ream 514-519m. Circulate. Drill 8.5" hole 519-549m. Circulate and condition mud. Build mud volume. Drill 8.5" hole 549-564m. Circulate geological sample. POOH to run casing. Work tight spots. Prepare to run casing Shut down for night.
19-05-02	0.5 1.0 8.5 1.0 0.5	Travel from town. Start up. Prepare to run 7" casing. Unload truck with extra casing. Run 7" casing. Tag solid fill at 551m. Hang casing at 548.5m. Circulate casing and prepare to cement. Shut down for night.
20-05-02	1.5 0.5 0.25 9.75 0.5	Travel from town. Start up. Cement 7" casing with 270 sx class A at 15.6 ppg. Displace cement with 71 bbls mud. Bumped plug OK 200 PSI over FCP. Floats held. CIP @ 08:15. Returns throughout. WOC. Set slips and prepare to lift BOP. Shut down for night.
21-05-02	0.5 1.5 1.0 0.5 1.0 3.0 1.0 3.0 0.5	Travel from town. Start up. RIH. Tag plug at 436m. Pressure test pipe rams, Choke manifold, Annular to 1000 PSI for 10 minutes - pressure test OK. Ream out plug, float and shoe. Ream out rat hole to 564m. Drill 6.125" hole 564 to 565m. Circulate bottom sample. Condition mud. POOH. Pick up core barrel. RIH. Shut down for night.
22-05-02	0.5 0.5 2.0 3.0 1.0 2.0 1.5 1.0 0.5	Travel from town. Start up. Wash to bottom with core barrel. Drop ball. Cut core #1. 565 to 574m. POOH. Recover core #1. 41% recovery 566.0 to 569.7m (3.7m). RIH with 6.125" bit. Break circulation. Drill 6.125" hole 574 to 589m. Circulate bottom sample. Pull back to shoe. Tight hole from filter cake. Shut down for night.
23-05-02	1.0 0.5 2.5 0.5 5.5 1.0 0.5	Travel from town. Start up. Replace wash pipe packing. RIH with drilling assembly. Wash to bottom. Drill 6.125" hole 589 to 648m. Repair kelly cock. Drill ahead 648 to 742m. Circulate bottom sample. Pull back to shoe. Shut down for night.
24-05-02	0.5 5.5 1.0 1.0 0.5 2.0	Travel from town. Start up. Wait on cross-over subs for 2.875" drill pipe. Circulate and condition mud. RIH with drilling assembly and 3.5" drill pipe. Ream tight hole from 646 to 742m. Circulate. Drill 6.125" hole 742 to 751m.

	1.0 0.5	POOH to shoe. Shut down for night.
25-05-02	0.5 1.5 1.0 0.5 6.5 2.0 0.5	Travel from town. Start up. POOH to 30 joints drill pipe and BHA. RIH with drilling assembly, 30 joints 3.5" DP, 2.875" DP. Ream fill 730 to 751m. Drill 6.125" hole 751 to 786m. POOH to shoe. Shut down for night.
26-05-02	0.5 1.5 1.0 6.0 2.0	Travel from town. Start up. RIH with drilling assembly, 30jts 3.5" DP, 2.875" DP. Wash and ream fill from 730m, firm fill 750 to 786m. Drill 6.125" hole 786 to 827m. POOH to shoe. Shut down for night. Fuel up. Service rig.
27-05-02	0.5 4.0 1.0 2.0 0.25 0.25 0.5 0.5	Travel from town. Start up. POOH with drilling assembly. Pick up 18m core barrel. RIH. Break circulation at shoe. RIH. Wash through bridge at 576m. RIH to 600m. POOH to shoe - insufficient remaining daylight to fill barrel and POOH to shoe. Shut down for night.
28-05-02	0.5 0.5 1.0 8.0 1.5 0.5	Travel from town. Start up. RIH with core barrel. Wash to bottom. 18m fill. Cut core #2 827 to 839m. POOH to shoe. Shut down for night
29-05-02	0.5 2.5 1.5 2.5 1.5 0.5 1.0 1.5	Travel from town. Start up. POOH with core barrel. Recover core. Lay down barrel. RIH open ended to 570m. Place 50m (40sx) balanced cement plug across shoe. POOH to 480m. Circulate. Shut down for night
30-05-02	0.5 2.0 2.0 1.5 0.5 5.5 0.5	Travel from town. Start up. RIH open ended, tag cement at 530m. POOH. Nipple down BOP's. Set surface plug. Rig down and prepare to move. Shut down for night.

2.3.2 Hole sizes and depths:

12.25" (311mm) Spud to 60m.
 8.5" (216mm) 60 to 564m.
 6.125" (156mm) 564 to 839m.

2.3.3 Casing and cementing:

SURFACE:

SIZE:	9.625" / 244MM
Weight:	
Grade:	
Shoe setting depth:	
Cement quantity:	

INTERMEDIATE:

SIZE:	7" / 178MM
Weight:	
Grade:	
Shoe setting depth:	548.5m
Cement quantity:	x class "A" 15.6 lb/gal

2.3.4 Deviation Surveys:

None taken.

2.3.5 Drilling Fluid:

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

(B) 60 - 839m. KCl/Polymer/PHPA.

2.3.6 Physical Mud Properties:

DEPTH	PPG	VIS	KCL%	PHPA LB/GAL
130	8.8	30	4.0	0.5
204	9.2	53	6.0	0.33
220	9.2	33	6	0.5
411	9	33	6	0.5
519	9.1	36	6	1.0
564	9.1	36	4	0.5
575	8.5	33	2	0.5
754	8.8	38	6	0.5
760	9.3	34	6	1.0
783	9.4	35	6	1.0
827	9.4	38	6	0.5
832	9.5	38	6	0.5

2.3.7 Water Supply:

Water was trucked to site from Sale.

2.3.8 Perforation:

None.

2.3.9 Plugging and Cementing:

Plug 1. 570 to 530m (across shoe) with 40 sacks of cement.

Plug 2. Surface

2.3.10 Bit Data

BIT RUN	1	2	3RR	4CH	4	3RR
Diameter	12.25"	8.5"	6.125"	6"	6.125"	6"
Type & Manufacture	Security S33	Varel L114	Varel L114	Core Head	Varel ETD14	Core Head
IADC code	114	114	127		437	
Serial number	209393	105479	180115		146729	
Nozzles	Open	14,14,11	12,12,12		14,14,11	
Depth in (m)	3	60	574		742	827
Depth out (m)	60	564			827	839
Drilled (cum/daily)	57	504	168		85	12
Hours (cum/daily)	7.5	16.5	9		14.5	8
Dull grade		6.6.WT.E.1/16/TD			1.1.WT.A.E.I.CP	1.1.I
Av. ROP m/hr		28.0			5.8	
WOB Klbs		5/10	5		5	
RPM		70	90		90	
Jet Velocity					145	
HHP@Bit					17	
BHA		Bit/2XDC/Stab/4 XDC	Bit/2DC/Stab/9X 4.75"DC		Bit/2DC/Stab/9X4.7 5"DC	Core Barrel/10X4.75"DC

2.4 LOGGING AND TESTING

Wellsite Geologist:

David Horner

Mudlogging:

Hot wire hydrocarbon detection, depth and drill rate monitoring was provided by Denis Sisely.

Ditch Cutting Samples:

Cuttings were collected at 10 meter intervals from spud to 60m, then at 3m intervals to 839m (T.D.)

These being 1 set 500gm unwashed calico bag, and 1 set washed samplex tray.

Coring:

1 X 9m core was cut from 565 to 574m. Recovered 3.7m (566.0 to 569.7m - 41%).

1 X 12m core was cut from 827 to 839m. Recovered 9.0m (827.0 to 836.0m - 75%).

See core analysis report.

Sidewall Cores:

No sidewall cores were taken.