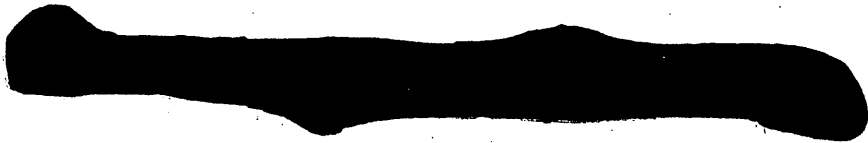


915149 001

PAGE 1 OF 92



Geological &  
Daily Drilling  
Deadman Hill-1  
(W1353)

Deadman Hill-1  
Stratigraphic well  
Geological + Drilling Reports



# LAKES OIL NL

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**915149 002**

## FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 31 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 6  
(Including this one)

**MESSAGE:**

Please find attached Daily Drilling Reports for the Deadman Hill No. 1 Stratigraphic Core Hole.



# LAKES OIL N.L.

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**915149 003**

Deadman Hill Location  
Longford Vic.

30<sup>th</sup> May 2002

**Daily Report No. 19 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 30.5.02

Recovered core#2 827-839 m . Recovered 9 m (75%)

**Next 24 hrs**

Suspend hole, commence rig move to Protea#1 location.

*Jack Mulready*

915149 004

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 19**

Date: 30-05-2002

Depth: 839m

Progress: 0m

Days from Spud: 19

Rig: Sides Bourne 2000THD  
 Drilling Rep: Wally Westman  
 Geologist: David Horner

GL(AHD): 59m  
 RT: (datum) 60m  
 Last Casing: 7' at 549m

**Comments:**

POOH with core #2 827-839m (Cut 12m. Rec 9m. (75%)).

Interval (mRT)	Hydrocarbon Show Summary	Gas
	No new formation drilled	

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzelecki Formation	497	764	-704	267 Low
T.D.	600	839	-779	239 Low

\*Provisional, based on mudlog

CORE#2

CORE No.2 827.0 to 839.0m. Cut 12m. Rec 9.0m. (75%).

Note: missing section of core although deleted from bottom of the cored interval, is believed to be missing from several intervals throughout the core length. The core shows many rotational surfaces.

827.0 to 828.35 m.

Massive Claystone (100%).

CLAYSTONE: very dark grey, very silty, very carbonaceous, trace micromica, firm, non fissile. Occasional slickensided surfaces, no visible bedding or sedimentary structure.

828.35 to 832.5m.

Sandstone (50%) with finely interbedded interlaminated and grading to Claystone (50%).

SANDSTONE: light to medium grey, very fine to medium, occasional to common clay clasts to 4mm, angular to subrounded, dominantly subangular, poorly sorted, weak silica cement, composed of altered feldspars, grey green claystone clasts, minor quartz grains, trace to abundant black coaly detritus, friable to moderately hard, very poor visual porosity, no oil fluorescence.

CLAYSTONE: very dark grey, very silty, very carbonaceous, trace micromica, firm, non fissile, grading to CLAYSTONE: light to medium grey to grey brown, moderately to very silty, common to abundant black coaly detritus, occasionally very arenaceous with altered feldspar grains, trace micromica, firm, non fissile.

Bedding 0-5 degrees, common diffused bedding (dewatering?), common sedimentary bedding.

832.5 to 834.1m.

Massive Sandstone (100%)

SANDSTONE: light grey, occasionally light greenish grey, very fine to rarely medium, dominantly fine, angular to subrounded, dominantly subangular, moderately sorted, weak silica cement, nil to strong calcareous cement, common off white argillaceous matrix, composed of altered feldspar grains with common quartz and green grey black lithics, trace orange red lithics, trace brown and clear mica flakes, common to abundant black coaly detritus, friable to moderately hard, very poor visual porosity, no oil fluorescence.

Bedding 0-5 degrees, common diffused bedding (dewatering?).

834.1 to 836.0m.

Sandstone (50%) interbedded, interlaminated and grading to Claystone (50%).

SANDSTONE: light grey to slightly greenish grey, very fine to fine, dominantly fine, angular to subrounded, dominantly subangular, moderately to well sorted, weak silica and calcareous cements, common to abundant white argillaceous matrix, occasionally abundant light to medium grey argillaceous matrix, composed of feldspar grains with common quartz and grey green black lithics, trace red orange lithics, trace clear and brown mica flakes, abundant black coaly detritus, friable to moderately hard, very poor visual porosity, no oil fluorescence.

CLAYSTONE: light to medium grey to grey brown, moderately to very silty, common to abundant black coaly detritus, occasionally very arenaceous with altered feldspar grains, trace micromica, firm, non fissile, grading to CLAYSTONE: very dark grey, very silty, very carbonaceous, trace to common micromica, firm, non fissile.

Bedding 0-8 degrees, common diffused bedding (dewatering?), common sedimentary bedding.

# Lakes Oil Daily Drilling Report

WELL:   
 PERMIT:   
 RIG:

DATE:   
 REPORT #   
 D.F.S.

DEPTH 0800 Hrs:  STATUS @ 08:00 Hrs:   
 TVD:  FORMATION:   
 24 HR PROGRESS:  LAST CASING:  @  SHOE L.O.T.:   
 HOLE SIZE:  WD (LAT):  RT - GL / Air gap:  MAASP:

SURVEYS:

MUD PROPERTIES		CONSUMABLES			FORMATION DATA			
Sample taken @	832		Rig	Workboat	Workboat	Name	Strezlecki?	
Flowline Temp °C		Fuel				Lithology	Mudstone / pyrite	
Weight ppg / SG	9.5	Potable water				Top depth RT.	764.00 m	
Funnel viscosity	38	Drill water				Trip gas %	3	
PV/YF(cp/lb/100ft <sup>2</sup> )		Berites				Connection Gas %	0	
Gels 10secs / 10min		Cement				Background gas %	0	
WL API(cc/30min)		Gel				ECD (ppg)	9.53	
WL HTHP(cc/30min)		Base Oil				DRILLS / BOPS		
Cake (1/32")		PUMPS	1	2	3	LAST BOP DRILL	20-May	
Solids %		TYPE	Clark			LAST FIRE DRILL		
Sand %		STROKE(in)	10			LAST MOB DRILL		
MBT(lb/bbl)		LINER(in)	5 1/2			LAST ABN. RIG DRILL		
PH		SPM	41			LAST BOP TEST	20-May	
Chlorides (mg/l)		GPM	182			BOP TEST DUE	27-May	
KCl %	6	AV-DP(Ft/min)	160				HRS	CUM
PHPA (Calc ppb)	1/2	AV-DC(Ft/min)				1. Rig up / down.		28.00
		SPP(kPa/psi)				2. Drilling.		44.50
Hole volume bbls.	88 / 77	SCR @ 40				3. Reaming.		5.50
Surface volume bbls.	40	SCR @ 50				4. Trip	7.00	44.50
BIT DATA		WEATHER / RIG RESPONSE			5. Circ. / condition.	2.50	8.50	
Bit Run	3RR	Wind Speed (kts)	5		6. Deviation survey			
Diameter	6"	Direction	West		7. Run casing			9.50
Type & manufacture	Core head	Temperature	19		8. Cementing			
ADC code		Barometric pressure millibar			9. Handle Preventors			
Serial number		Barometer rise / fall			10. Riser, flowline			
Nozzles		Visibility(NM)	Clear		11. Logging.			
Depth In (m)	827m	Sea state			12. Press. test BOP			
Depth Out	838m	Swell / Period / Direction			13. Repair rig.			2.00
Drilled (m cum/dly)	12m	Waves / period / direction			14. Service rig.			
Hours (cum/dly)	8	Heave			15. Slip / cut drlg line			
Dull grade	1.1.1	Pitch			16. Drill stem test.			
Average ROP (m/hr)		Roll			17. Fishing.			
WOB Klbs		Anchor tension			18. Well control.			
RPM		Anchor tension			19. Hang-off.			
Jot velocity		Riser tension			21. W.O.Weather			
HHP @ BIT		VARIABLE DECK LOAD (Ktpe)			22. Lost circ.			1.00
BHA No.		BHA WEIGHT			STRING WT			
BHA Profile :	Core barrel / 10 x 4 3/4" DC / 2.875" Dp.				23. Plug / Abandon.	1.00		
					24. Mob / Damob			
					25. Handle anchors.			
DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA		26. Change drill pipe.			6.00
			DRAG - UP (mt)		27. Guide base / ROV.			
			DRAG - DOWN (mt)		28. Coring	7.00		10.00
			TORQUE-On Bottom (amps)		29. Travel	2		6.00
			TORQUE-Off Bottom (amps)		30. W O Cement			
					<b>TOTAL (HRS)</b>	<b>18.50</b>		<b>187.50</b>





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**FACSIMILE MESSAGE**

**FAX NO:** (03) 9412 5156 **DATE:** 30 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 6  
(Including this one)

**MESSAGE:**

Please find attached Daily Drilling Reports for the Deadman Hill No. 1 Stratigraphic Core Hole.





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**Deadman Hill Location  
Longford Vic.**

29<sup>th</sup> May 2002

**Daily Report No. 18 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 29.5.02

RIH cut core#2 827-839 m (12m)

Next 24 hrs

Recover core#2

Suspend hole.

*Jack Mulready*

915149 010

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 18****Date: 29-05-2002****Depth: 839m****Progress:12m****Days from Spud: 18**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	7' at 549m

**Comments:**

RIH with core barrel, 18m of fill, trip gas at 827m 15 units. Run carbide at 827m = 165 units. Cut core #2 827.0 to 839.0m (12m). POOH to shoe.

Interval (mRT)	Hydrocarbon Show Summary	Gas
827-839	No show	3-8 units

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzelecki Formation	497	764	-704	267 Low
T.D.	600	839	-779	239 Low

\*Provisional, based on mudlog

915149 011

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 18****Lithological and Fluorescence Description**

Interval (m)	Description
827-839 T.D.	<p>CLAYSTONE: (60%) light to medium grey, light brown grey, slightly to very silty, rarely very finely arenaceous with quartz and partially altered feldspar grains, trace black coaly specks, trace micromica, firm, sticky in sample, slightly subfissile..</p> <p>Interbedded and laminated with:</p> <p>SANDSTONE: (40%) off white to light grey, very fine to rarely medium, dominantly very fine to fine, angular to subrounded, dominantly subangular, moderately sorted, abundant off white argillaceous matrix, weak to moderate silica and calcareous cements, quartzose with abundant off white partially altered feldspar grains, common grey black green orange and red lithics, trace black coaly detritus, moderately hard, very poor visual porosity, no oil fluorescence.</p>

915149 012

# Lakes Oil Daily Drilling Report

WELL: Deadman Hill  
 PERMIT: PEP-157  
 RIG: Sides Engineering

DATE: 27-May-02  
 REPORT #: 17  
 D.F.S.: 16

DEPTH 0600 Hrs: 827.00 m STATUS @ 06:00 Hrs: RIH to core.  
 TVD: 827.00 m FORMATION: Srozlecki?  
 24 HR PROGRESS: 0.00 m LAST CASING: 7 @ 764m? SHOE L.O.T.:           
 HOLE SIZE: 6-1/8" WD (LAT):          RT - GL / Air gap:          MAASP:         

**SURVEYS:**

MUD PROPERTIES		CONSUMABLES			FORMATION DATA			
Sample taken @	827		Rig	Workboat	Workboat	Name	Srozlecki?	
Flowline Temp °C		Fuel				Lithology	Mudstone / pyrite	
Weight ppg / SG	9.4	Potable water				Top depth RT.	764.00 m	
Funnel viscosity.	38	Drill water				Trip gas %	3	
PV/YP(cp/lb/100ft <sup>2</sup> )		Barites				Connection Gas %	0	
Gels 10secs / 10min		Cement				Background gas %	0	
WL API(cc/30min)		Gel				ECD (ppg)	9.53	
WL HTHP(cc/30min)		Base Oil				<b>DRILLS / BOPS</b>		
Cake (1/32")		PUMPS	1	2	3	LAST BOP DRILL	20-May	
Solids %		TYPE	Clark			LAST FIRE DRILL		
Sand %		STROKE(ft)	10			LAST MOB DRILL		
MBT(lb/bbl)		LINER(in)	5 1/2			LAST ABN. RIG DRILL		
PH		SPM	41			LAST BOP TEST	20-May	
Chlorides (mg/l)		GPM	192			BOP TEST DUE	27-May	
KCl %	6	AV-DP(Ft/min)	160				HRS	CUM
PHPA (Calc ppb)	1/2	AV-DC(Ft/min)				1. Rig up / down.		28.00
		SPP(kPa/psi)				2. Drilling.		43.50
Hole volume bbls.	98 / 77	SCR @ 40				3. Reaming.		4.50
Surface volume bbls.	40	SCR @ 50				4. Trip	8.00	42.50
						5. Circ. / condition.		8.50
						6. Deviation survey		
						7. Run casing		9.50
						8. Cementing		
						9. Handle Preventors		
						10. Riser, flowline		
						11. Logging.		
						12. Press. test BOP		
						13. Repair rig.		2.00
						14. Service rig.		
						15. Slip / cut drg line		
						16. Drill stem test.		
						17. Fishing.		
						18. Well control.		
						19. Hang-off.		
						21. W.O.Weather		
						22. Lost circ.		1.00
						23. Plug / Abandon.		
						24. Mob / Demob		
						25. Handle anchors.		
						26. Change drill pipe.		8.00
						27. Guide base / ROV.		
						28. Coring		3.00
						29. Travel	1	6.00
						30. W O Cement		
						<b>TOTAL (HRS)</b>	<b>9.00</b>	<b>156.50</b>

DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS

DRILLING DATA	
DRAG - UP (m)	
DRAG - DOWN (m)	
TORQUE-On Bottom (amps)	
TORQUE-Off Bottom (amps)	

BHA No. 3 BHA WEIGHT          STRING WT           
 BHA Profile: Bit / 2 Dc / Stab / 9 x 4 1/4" DC / 3.5" Dp.





# LAKES OIL N.L.

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Fax: (03) 9629 1624

24 May 2002

The Cultural Heritage Officer  
East Gippsland Aboriginal Co-operative  
Fax 5152 3115

Dear Sir,

**Re: Stratigraphic Drilling Longford District**  
Lakes Oil are currently engaged in the drilling of two stratigraphic wells named Deadman Hill-1 and Protea-1.

Locations are as follows:

Deadman Hill 14 km southeast of Sale  
AMG Co-ordinates

515826 E

5772254 S

Protea-1 11 km south-south east of Sale

AMG co-ordinates

512873 E

5772851 N

Reference map for both wells is Sale Topographic 8321 Scale 1:100,000

Both are located on freehold land.

Four pits are required for each well for the purposes of mud and water storage.

Should you wish to follow up on these wells please call Jack Mulready of Lakes Oil on his mobile  
Phone 0409 006 550

Yours sincerely  
LAKES OIL N.L.

**JACK N. MULREADY**  
Technical Consultant

Internet Site: [www.lakesoil.com.au](http://www.lakesoil.com.au)  
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**LAKES OIL NL**

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**FACSIMILE MESSAGE**

**FAX NO:** (03) 9412 5156 **DATE:** 28 May 2002  
**TO:** Department of Natural Resources and Environment  
Mr. Robert King  
**ATTENTION:** Bruce Armour  
**FROM:** Margaret Rhodes  
**RE:** Deadman Hill and Protea wells  
**No. OF PAGES:** two  
(Including this one)

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**MESSAGE:**

Attached for your information is a copy of correspondence sent to the East Gippsland Aboriginal Co-operative advising them of the drilling of the Deadman Hill and Protea wells.

**915149 016**



**LAKES OIL NL**

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Phone: (03) 9629 1566  
Fax: (03) 9629 1624

*Jack Mulready*

*0409006550*

**FACSIMILE MESSAGE**

**FAX NO:** (03) 9412 5156 **DATE:** 29 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 6  
(Including this one)

**MESSAGE:**

Please find attached Daily Drilling Reports for the Deadman Hill No. 1 Stratigraphic Core Hole.



**915149 017**



# LAKES OIL N.L.

(A.C.N. 004 247 214)

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Fax: (03) 9629 1624

Deadman Hill Location  
Longford Vic.

28<sup>th</sup> May 2002

**Daily Report No. 17 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 28.5.02

Changed out drill pipe.

Made up core barrel, RIH

Next 24 hrs

Cut core#2

*Jack Mulready*

915149 018

# Lakes Oil Daily Drilling Report

<b>WELL:</b>	Deadman Hill	<b>DATE:</b>	26-May-02
<b>PERMIT:</b>	PEP-157	<b>REPORT #:</b>	10
<b>RIG:</b>	Sides Engineering	<b>D.F.S.:</b>	15

<b>DEPTH 0600 Hrs:</b>	786.00 m	<b>STATUS @ 06:00 Hrs:</b>	RIF to drill ahead.
<b>TVD:</b>	786.00 m	<b>FORMATION:</b>	Claystone w/ interbedded sand.
<b>24 HR PROGRESS:</b>	35.00 m	<b>LAST CASING:</b>	7 @ 548.5m
<b>SOLE L.O.T.:</b>		<b>SHOE L.O.T.:</b>	
<b>HOLE SIZE:</b>	6-1/8"	<b>WD (LAT):</b>	
		<b>RT - GL / Air gap:</b>	
<b>MAASP:</b>			

**SURVEYS:**

MUD PROPERTIES			CONSUMABLES			FORMATION DATA			
Sample taken @	760	810	Rig	Workboat	Workboat	Name	7		
Flowline Temp °C			Fuel			Lithology	Claystone		
Weight ppg / SG	9.3	9.4	Potable water			Top depth RT.	764.00 m		
Funnel viscosity	34	35	Drill water			Trip gas %	3		
PV/NP(cp/lb/100R2)			Beritas			Connection Gas %	0		
Gels 10secs / 10min			Cement			Background gas %	0		
WL API(cc/30min)			Gel			ECD (ppg)	9.9		
WL HTHP(cc/30min)			Base Oil			<b>DRILLS / BOPS</b>			
Cake (1/32")			<b>PUMPS</b>	1	2	3	LAST BOP DRILL	20-May	
Solids %			TYPE	Clark			LAST FIRE DRILL		
Sand %			STROKE(in)	10			LAST MOB DRILL		
MBT(lb/bbl)			LINER(in)	5 1/2			LAST ABN. RIG DRILL		
PH			SPM	41			LAST BOP TEST	20-May	
Chlorides (mg/l)			GPM	192			BOP TEST DUE	27-May	
KCl %	6	6	AV-DP(F/m/min)	160				HRS	CUM
PHPA (Calc ppb)		1	AV-DC(F/m/min)				1. Rig up / down.	20.00	
			SPP(kPa/psi)				2. Drilling.	6.00 49.50	
Hole volume bbls.	69 / 46	80 / 60	SCR @ 40				3. Reaming.	1.00 4.50	
Surface volume bbls.	40	40	SCR @ 50				4. Trip	-3.50 34.50	
							5. Circ. / condition.	0.50	

BIT DATA			WEATHER / RIG RESPONSE		
Bit Run		4	Wind Speed (kts)	5	
Diameter		6-1/8"	Direction	West	
Type & manufacture		Varel ETD 14	Temperature	19	
IADC code		4.3.7	Barometric pressure millibar		
Serial number		148729	Barometer rise / fall		
Nozzles		14. 14. 11	Visibility(NM)	Clear	
Depth In (m)		742m	Sea state		
Depth Out		827m	Swell / Period / Direction		
Drilled (m cum/dly)		85m	Waves / period / direction		
Hours (cum/dly)		14.5	Heave		
Dull grade		RNG	Pitch		
Average ROP (m/hr)		5.8	Roll		
WOB Kibs		10	Anchor tension		
RPM		90	Anchor tension		
Jet velocity		145	Riser tension		
HHP @ BIT		17	<b>VARIABLE DECK LOAD (Kips)</b>		
<b>BHA No.</b>	3	<b>BHA WEIGHT</b>	<b>STRING WT</b>		
<b>BHA Profile :</b> Bit / 2 Dc / Stab / 9 x 4 1/2" DC / 30jls 3.5" Dp / 2-7/8 Dp.					

DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA		
			DRAG - UP (m)		
			DRAG - DOWN (m)		
			TORQUE-On Bottom (amps)		
			TORQUE-Off Bottom (amps)		
			<b>TOTAL (HRS)</b>	12.00	148.50



**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 17****Date: 28-05-2002****Depth: 827m****Progress:0m****Days from Spud: 17****Rig:** Sides Bourne 2000THD**GL(AHD):** 59m**Drilling Rep:** Wally Westman**RT: (datum)** 60m**Geologist:** David Horner**Last Casing:** 7' at 549m**Comments:**

POOH, pick up 18m core barrel, RIH to shoe.

Core #2 is to clarify age and formation at this depth, and also, if sands are encountered for porosity/permeability data. Note: the cuttings samples are non-definitive as to whether the formation below 764m is Strzelecki Formation or the basal section of the Golden Beach Formation which is composed primarily of re-worked Strzelecki Formation.

Interval (mRT)	Hydrocarbon Show Summary	Gas
	No new formation drilled.	

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzelecki Formation	497	764	-704	267 Low
T.D.	600			

\*Provisional, based on mudlog

915149 021

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157**

**DAILY GEOLOGICAL REPORT No. 17**

**Lithological and Fluorescence Description**

Interval (m)	Description
	No new formation drilled.

28 MAY 2002 10:22

61 3 96291624  
61 3 96291624

NO. 861 P. 1  
**915149 022**  
P.O. Box 300, Collins St. West  
Melbourne, Vic. 3001  
Phone: (03) 9629 1566  
Fax: (03) 9629 1624



**LAKES OIL NL**

ACN 004 247 214

Registered Office:  
Level 11,  
500 Collins Street,  
Melbourne, Vic. 3000

**FACSIMILE MESSAGE**

**FAX NO:** (03) 9412 5156 **DATE:** 28 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 8  
(Including this one)

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**MESSAGE:**

Please find attached Daily Drilling Reports for the Deadman Hill No. 1 Stratigraphic Core Hole.

**FAX NO -61-3-9629-1624**  
**IF YOU HAVE ANY PROBLEMS WITH THE TRANSMISSION PLEASE CALL**  
**-61-3-9629-1566**

**LAKES OIL N.L.**

(A.C.N. 004 247 214)

Registered Office:  
Level 11,  
500 Collins Street,  
Melbourne, Vic. 3000P.O. Box 300, Collins St. West  
Melbourne, Vic. 8007  
Phone: (03) 9629 1566  
Fax: (03) 9629 1624Deadman Hill Location  
Longford Vic.**915149 023**27<sup>th</sup> May 2002**Daily Report No. 16 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 26.5.02

Wait on crossover sub.

Drilled from 786 m to 827 m in Golden Beach Fm

Trip gas 5 units

Gas 1-5 units while drilling.

Next 24 hrs

Cut core#2

*Jack Mulready*

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 16****Date: 27-05-2002****Depth: 827m****Progress:41m****Days from Spud: 16****Rig:** Sides Bourne 2000THD**GL(AHD):** 59m**Drilling Rep:** Wally Westman**RT: (datum)** 60m**Geologist:** David Horner**Last Casing:** 7' at 549m**Comments:**

RIH, ream 50m tight hole and fill, trip gas at 786m 5 units. Drill ahead 786 to 827m. Hole condition unstable. Background gas gradually increasing (from 1 unit at 786m to 5 units by 827m).

Interval (mRT)	Hydrocarbon Show Summary	Gas
786-827	No show	1-5 units

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzelecki Formation	497	764	-704	267 Low
T.D.	600			

\*Provisional, based on mudlog



915149 025

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 16****Lithological and Fluorescence Description**

Interval (m)	Description
786-827	<p>CLAYSTONE: (60%) light to medium grey to light brown, rarely off white, slightly to very silty, rarely very finely arenaceous with quartz and partially altered feldspar grains, trace black coaly specks, trace micromica, rare pyrite, firm, sticky in sample, slightly subfissile. Interbedded with:</p> <p>SANDSTONE: (40%) light grey, very fine to medium, dominantly fine, angular to subrounded, dominantly subangular, moderately sorted, common to abundant off white argillaceous matrix, weak to moderate silica and calcareous cements, quartzose with abundant off white partially altered feldspar grains, common grey black green orange and red lithics, trace black coaly detritus, rare pyrite, moderately hard, very poor visual porosity, no oil fluorescence.</p>

# Lakes Oil Daily Drilling Report

WELL: Deadman Hill  
 PERMIT: PEP-157  
 RIG: Sides Engineering

DATE: 26-May-02  
 REPORT #: 16  
 D.F.S.: 15

DEPTH 0600 Hrs: 786.00 m STATUS @ 06:00 Hrs: RIH to drill ahead.  
 TVD: 786.00 m FORMATION: Claystone w/ interbedded sand.  
 24 HR PROGRESS: 35.00 m LAST CASING: 7 @ 548.5m SHOE L.O.T.:           
 HOLE SIZE: 6-1/8" WD (LAT):          RT - GL / Air gap:          MAASP:         

SURVEYS:         

MUD PROPERTIES			CONSUMABLES			FORMATION DATA		
Sample taken @	780	810		Rig	Workboat	Workboat	Name	?
Flowline Temp °C			Fuel				Lithology	Claystone
Wolght ppg / SG	9.3	9.4	Polable water				Top depth RT.	764.00 m
Funnel viscosity.	34	35	Drill water				Trip gas %	3
PV/YP(cp/lb/100R2)			Bariles				Connection Gas %	0
Gels 10secs / 10min			Cement				Background gas %	0
IWL API(cc/30min)			Gel				ECD (ppg)	9.9
IWL HTHP(cc/30min)			Base Oil				<b>DRILLS / BOPS</b>	
Cake (1/32')			<b>PUMPS</b>	1	2	3	LAST BOP DRILL	20-May
Sollds %			TYPE	Clark			LAST FIRE DRILL	
Sand %			STROKE(in)	10			LAST MOB DRILL	
MBT(lb/bbl)			LINER(in)	5 1/2			LAST ABN. RIG DRILL	
PH			SPM	41			LAST BOP TEST	20-May
Chlorides (mg/l)			GPM	192			BOP TEST DUE	27-May
KCl %	8	6	AV-DP(F/min)	160				HRS
PHPA (Calc ppb)		1	AV-DC(F/min)				1. Rig up / down.	28.00
			SPP(kPa/psi)				2. Drilling.	6.00 43.50
Hole volume bbls.	69 / 46	80 / 80	SCR @ 40				3. Reaming.	1.00 4.50
Surfaco volume bbls.	40	40	SCR @ 50				4. Trip	3.50 34.50
							5. Circ. / condition.	8.50
							6. Devlation survey	
							7. Run casing	9.50
							8. Cementing	
							9. Handle Preventors	
							10. Riser, flowline	
							11. Logging.	
							12. Press. test BOP	
							13. Repair rig.	2.00
							14. Service rig.	
							15. Slip / cut drtg line	
							16. Drill stem test	
							17. Fishing.	
							18. Well control.	
							19. Hang-off.	
							21. W.O.Weather	
							22. Lost circ.	1.00
							23. Plug / Abandon.	
							24. Mob / Demob	
							25. Handle anchors.	
							26. Change drill pipe.	8.00
							27. Guide base / ROV.	
							28. Coring	3.00
							29. Travel	1.5 6.00
							30. W O Cement	
							<b>TOTAL (HRS)</b>	<b>12.00 148.50</b>

DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA		
			DRAG - UP (m)		
			DRAG - DOWN (m)		
			TORQUE-On Bottom (amps)		
			TORQUE-Off Bottom (amps)		

BHA No. 3 BHA WEIGHT          STRING WT           
 BHA Profile: Bit / 2 Dc / Stab / 9 x 4 3/4' DC / 30lbs 3.5' Dp / 2-7/8 Dp.



**LAKES OIL N.L.**

(A.C.N. 004 247 214)

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Level 11,  
500 Collins Street,  
Melbourne, Vic. 3000P.O. Box 300, Collins St. West  
Melbourne, Vic. 8007  
Phone: (03) 9629 1566  
Fax: (03) 9629 1624**915149 028**Deadman Hill Location  
Longford Vic.26<sup>th</sup> May 2002**Daily Report No. 15 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 25.5.02

Wait on crossover sub.

Drilled from 751 to 786 m in Golden Beach Fm

Trip gas 3 units

Next 24 hrs

Drill ahead.

*Jack Mulready*



# LAKES OIL N.L.

(A.C.N. 004 247 214)

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500 Collins Street,  
Melbourne, Vic. 3000

P.O. Box 300, Collins St. West  
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Fax: (03) 9629 1624

**915149 029**

Deadman Hill Location  
Longford Vic.

25<sup>th</sup> May 2002

**Daily Report No. 14 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 24.5.02

Wait on crossover sub.

Drilled from 742 to 751 m in Golden Beach Fm

Next 24 hrs

Drill ahead.

*Jack Mulready*



# LAKES OIL NL

ACN 004 247 214

Registered Office:  
Level 11,  
500 Collins Street,  
Melbourne, Vic. 3000

P.O. Box 300, Collins St. West  
Melbourne, Vic. 3001  
Phone: (03) 9629 1566  
Fax: (03) 9629 1624

**915149 030**

## FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 27 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 11  
(Including this one)

**MESSAGE:**

Please find attached Daily Drilling Reports for the Deadman Hill No. 1 Stratigraphic Core Hole.

Picks for the Top Strzelecki Formation are still to be confirmed.

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 15****Date: 26-05-2002****Depth: 786m****Progress:35m****Days from Spud: 15**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	7' at 549m

**Comments:**

Pick up 2.875" drill string, drill ahead from 751 to 786m. Trip gas at 751m 3 units, 20m of fill. Hole indicating signs of instability.

Interval (mRT)	Hydrocarbon Show Summary	Gas
751-764	No show	1-2 units
764-786	No show	1-2 units

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzelecki Formation	497	764	-704	267 Low
T.D.	600			

\*Provisional, based on mudlog

915149 032

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 15****Lithological and Fluorescence Description**

Interval (m)	Description
751-755	SANDSTONE: (100%) light brown grey, very fine to coarse, dominantly fine, angular to subrounded, dominantly subangular, poorly sorted, common off white argillaceous matrix, weak silica cement, strong pyrite cement, strong dolomite cement, quartzose with common partially altered feldspar grains, common grey green and brown lithics, trace coarse mica flakes, trace black coaly detritus, very hard, no visual porosity, no oil fluorescence.
755-764	SANDSTONE: (100%) light grey, very fine to medium, dominantly fine, angular to subrounded, dominantly subangular, moderately sorted, common off white argillaceous matrix, weak silica cement, clear to opaque quartz with common partially altered feldspar grains, common grey green and orange brown lithics, trace coarse mica flakes, trace black coaly detritus, trace pyrite, friable, poor to fair inferred porosity, no oil fluorescence.
764-768	SANDSTONE: (100%) light grey, very fine to medium, dominantly fine, angular to subrounded, dominantly subangular, moderately sorted, abundant off white argillaceous matrix, weak silica cement and calcareous cements, quartzose with abundant partially altered feldspar grains, common grey green and orange brown lithics, trace black coaly detritus, friable to moderately hard, very poor to poor visual porosity, no oil fluorescence.
768-786	CLAYSTONE: (100%) very light brown to medium brown brown grey, rarely off white, slightly to very silty, trace black coaly specks, trace micromica, firm, sticky in sample, slightly subfissile.



915149 033

# Lakes Oil Daily Drilling Report

WELL: Deadman Hill  
 PERMIT: PEP-167  
 RIG: Sidas Engineering

DATE: 26-May-02  
 REPORT #: 16  
 D.F.S.: 15

DEPTH 0600 Hrs: 786.00 m STATUS @ 06:00 Hrs: RIH to drill ahead.  
 TVD: 786.00 m FORMATION: Strazlecki  
 24 HR PROGRESS: 35.00 m LAST CASING: 7 @ 548.5m SHOE L.O.T.:           
 HOLE SIZE: 6-1/8" WD (LAT):          RT - GL / Air gap:          MAASP:         

SURVEYS:         

MUD PROPERTIES		CONSUMABLES			FORMATION DATA			
Sample taken @	760	789	Rig	Workboat	Workboat	Name	Strazlecki	
Flowline Temp °C			Fuel			Lithology	Claystone	
Weight ppg / SG	9.3	9.4	Potable water			Top depth RT.	764.00 m	
Funnel viscosity	34	35	Drill water			Trip gas %	1	
PV/YP (cp/lb/100l/2)			Barites			Connection Gas %	0	
Gels 10secs / 10min			Cement			Background gas %	0	
WL AP (cc/30min)			Gel			ECD (ppg)	9.9	
WL HTHP (cc/30min)			Base Oil			DRILLS / BOPS		
Cake (1/32")			PUMPS	1	2	3	LAST BOP DRILL	20-May
Solids %			TYPE	Clark			LAST FIRE DRILL	
Sand %			STROKE (in)	10			LAST MOB DRILL	
MBT (lb/bbl)			LINER (in)	5 1/2			LAST ABN. RIG DRILL	
PH			SPM	41			LAST BOP TEST	20-May
Chlorides (mg/l)			GPM	192			BOP TEST DUE	27-May
KCl %	6	6	AV-DP (F/min)	160				
PHPA (Calc ppb)		1	AV-DC (F/min)					
			SPP (kPa/psi)				1. Rig up / down.	HRS CUM
Hole volume bbls.	69 / 46	80 / 60	SCR @ 40				2. Drilling.	6.50 37.50
Surface volume bbls.	40	40	SCR @ 60				3. Reaming.	0.50 3.50
BIT DATA		WEATHER / RIG RESPONSE					4. Trip	4.50 31.00
Bit Run		4	Wind Speed (kts)		5		5. Circ. / condition.	8.50
Diameter		6-1/8"	Direction		West		6. Deviation survey	
Type & manufacture		Varel ETD 14	Temperature		19		7. Run casing	9.50
IADC code		4.3.7	Barometric pressure millibar				8. Cementing	
Serial number		146729	Barometer rise / fall				9. Handle Preventors	
Nozzles		14. 14. 11	Visibility (NM)		Clear		10. Riser, Rowline	
Depth In (m)		742m	Sea state				11. Logging.	
Depth Out		786m	Swell / Period / Direction				12. Press. test BOP	
Drilled (m cum/dly)		44m	Waves / period / direction				13. Repair rig.	2.00
Hours (cum/dly)		2	Heave				14. Service rig.	
Dull grade		RNG	Pitch				15. Slip / cut drg line	
Average ROP (m/hr)		5.0	Roll				16. Drill stem test.	
WOB Klbs		10	Anchor tension				17. Fishing.	
RPM		90	Anchor tension				18. Well control.	
Jet velocity		145	Riser tension				19. Hang-off.	
HHP @ BIT		17	VARIABLE DECK LOAD (Kips)				20. W.O. Weather	
BHA No.	3	BHA WEIGHT					21. Lost circ.	1.00
BHA Profile :	Bit / 2 Dc / Stab / 9 x 4 1/2" DC / 30jbs 9.5" Dp / 2-7/8 Dp.						22. Plug / Abandon.	
							23. Mob / Demob	
							24. Handle anchors.	
DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA				25. Change drill pipe.	6.00
			DRAG - UP (mi)				26. Guide base / ROV.	
			DRAG - DOWN (mi)				27. Coring	3.00
			TORQUE-On Bottom (amps)				28. Travel	1 6.00
			TORQUE-Off Bottom (amps)				29. W O Cement	
							TOTAL (HRS)	12.50 138.00

*Pick for TOP  
is tentative  
Still to be  
confirmed*



**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 14****Date: 25-05-2002****Depth: 751m****Progress:9m****Days from Spud: 14****Rig:** Sides Bourne 2000THD**GL(AHD):** 59m**Drilling Rep:** Wally Westman**RT: (datum)** 60m**Geologist:** David Horner**Last Casing:** 7' at 549m**Comments:**

Wait on X-over sub, RIH with 3.5" drill string, drill ahead with 6.125" hole to Trip gas at 742m 4 units.

Interval (mRT)	Hydrocarbon Show Summary	Gas
742-751	No show	1 unit

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzelecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog

915149 036

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 14****Lithological and Fluorescence Description**

Interval (m)	Description
742-751	<p><b>SILTY CLAYSTONE:</b> (100%) medium grey, occasionally light grey, rarely dark grey and very carbonaceous, slightly to very silty, very finely arenaceous with quartz and partially altered feldspar sand grains in part, slightly calcareous in part, common black coaly specks and detritus, common micromica, trace pyrite, firm, sticky in sample, slightly subfissile. With minor interbedded and laminated:</p> <p><b>SANDSTONE:</b> light brown grey, very fine to coarse, dominantly fine, angular to subrounded, dominantly subangular, poorly sorted, common off white argillaceous matrix, weak silica cement, strong pyrite cement, strong dolomite cement, quartzose with common partially altered feldspar grains, common grey green and brown lithics, trace coarse mica flakes, trace black coaly detritus, very hard, no visual porosity, no oil fluorescence.</p>

# Lakes Oil Daily Drilling Report

WELL:   
 PERMIT:   
 RIG:

DATE:   
 REPORT #   
 D.F.S.

DEPTH 0600 Hrs:  STATUS @ 06:00 Hrs:   
 TVD:  FORMATION:   
 24 HR PROGRESS:  LAST CASING:  @  SHOE L.O.T.:   
 HOLE SIZE:  WD (LAT):  RT - GL / Air gap:  MAASP:

SURVEYS:

MUD PROPERTIES			CONSUMABLES			FORMATION DATA		
Sample taken @		575		Rlg	Workboat	Workboat	Name	Golden Beach
Flowline Temp °C			Fuel				Litology	
Weight ppg / SG		8.5	Potable water				Top depth RT.	558.00 m
Funnel viscosity		33	Drill water				Trip gas %	
PV/YP(cp/lb/100R2)			Sarites				Connection Gas %	
Gels 10secs / 10min			Cement				Background gas %	
WL API(cc/30min)			Gel				ECD (ppg)	
WL HTHP(cc/30min)			Base Oil				DRILLS / BOPS	
Cake (1/32")			PUMPS			1	2	3
Solids %			TYPE	Clerk			LAST BOP DRILL	15-May
Sand %			STROKE(in)	10			LAST FIRE DRILL	
MBT(lb/bbl)			LINER(in)	5 1/2			LAST MOB DRILL	
PH			SPM	41			LAST ABN. RIG DRILL	
Chlorides (mg/l)			GPM	192			LAST BOP TEST	14-May
KCl %		2	AV-DP(FU/min)	160			BOP TEST DUE	21-May
PHPA (Calc ppb)		1/2	SPP(kPa/psi)					
Hole volume bbls.		69 / 46	SCR @ 40					
Surface volume bbls.		60	SCR @ 50					
BIT DATA			WEATHER / RIG RESPONSE					
Bit Run	RR3	4	Wind Speed (kts)				5. Circ. / condition.	1.50 8.00
Diameter	6 1/8	6-1/8"	Direction				6. Deviation survey	
Type & manufacture	Varel L127	Varel ETD 14	Temperature				7. Run casing	9.50
IADC code	127	4.3.7	Barometric pressure millibar				8. Cementing	
Serial number	180115	146729	Barometer rise / fall				9. Handle Preventors	
Nozzles	12.12.12	14. 14. 11	Visibility(NM)				10. Riser, flowline	
Depth In (m)	574m	742m	Sea state				11. Logging.	
Depth Out	742m		Swell / Period / Direction				12. Press. test BOP	
Drilled (m cum/dly)	168m		Waves / period / direction				13. Repair rig.	2.00
Hours (cum/dly)	9		Heave				14. Service rig.	
Dull grade	7.7.WT.E.1.PR		Pitch				15. Slip / cut drlg line	
Average ROP (m/hr)	18.0		Roll				16. Drill stem test	
WOB Klbs	5		Anchor tension				17. Fishing.	
RPM	90		Anchor tension				18. Well control.	
Jet velocity			Riser tension				19. Hang-off.	
HHP @ BIT			VARIABLE DECK LOAD (Klbs)				20. W.O.Weather	
BHA No.	3	BHA WEIGHT					21. Lost circ.	1.00
BHA Profile :	BIT / 2 Dc / Slab / 9 x 4 1/4" DC / 20 Jts 3.5" Dp.						22. Plug / Abandon.	
							23. Mob / Demob	
							24. Handle anchors.	
							25. Change drill pipe.	2.50 2.50
DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA					
			DRAG - UP (mt)			26. Guide base / ROV.		
			DRAG - DOWN (mt)			27. Coning		3.00
			TORQUE-On Bottom (amps)			28. Travel	1	6.00
			TORQUE-Off Bottom (amps)			29. W O Cement		
						<b>TOTAL (HRS)</b>	<b>12.00</b>	<b>118.00</b>



915149 039

# Lakes Oil Daily Drilling Report

<b>WELL:</b>	Deadman Hill	<b>DATE:</b>	24-May-02
<b>PERMIT:</b>	PEP-157	<b>REPORT #</b>	14
<b>RIG:</b>	Slides Engineering	<b>D.F.S.</b>	13

<b>DEPTH 0800 Hrs:</b>	742.00 m	<b>STATUS @ 06:00 Hrs:</b>	Drill ahead.
<b>TVD:</b>	742.00 m	<b>FORMATION:</b>	Golden Beach
<b>24 HR PROGRESS:</b>	153.00 m	<b>LAST CASING:</b>	7 @ 548.6m
<b>SHOE L.O.T.:</b>		<b>MAASP:</b>	
<b>HOLE SIZE:</b>	6-1/8"	<b>WD (LAT):</b>	
		<b>RT - GL / Air gap:</b>	

**SURVEYS:**

MUD PROPERTIES		CONSUMABLES			FORMATION DATA			
Sample taken @	575	Rig	Workboat	Workboat	Name	Golden Beach		
Flowline Temp °C		Fuel			Lithology			
Weight ppg / SG	8.5	Potable water			Top depth RT.	558.00 m		
Funnel viscosity.	39	Drill water			Trip gas %			
PV/VP(cp/lb/100ft2)		Bartles			Connection Gas %			
Gels 10secs / 10min		Cement			Background gas %			
WL API(cc/30min)		Gel			ECD (ppg)			
WL HTHP(cc/30min)		Base Oil			DRILLS / BOPS			
Cake (1/32")		PUMPS			LAST BOP DRILL	15-May		
Solids %		1	2	3	LAST FIRE DRILL			
Sand %		TYPE	Clark		LAST MOB DRILL			
MBT(lb/bbl)		STROKE(in)	10		LAST ABN. RIG DRILL			
PH		LINER(in)	5 1/2		LAST BOP TEST	14-May		
Chlorides (mg/l)		SPM	41		BOP TEST DUE	21-May		
KCl %	2	GPM	192		HRS CUM			
PHPA (Calc ppb)	1/2	AV-DP(FV/min)	160		1. Rig up / down.		27.00	
		AV-DC(FV/min)			2. Drilling.	8.00	29.00	
		SPP(kPa/psi)			3. Reaming.		2.00	
Hole volume bbls.	69 / 46	SCR @ 40			4. Trip	1.50	21.00	
Surface volume bbls.	60	SCR @ 50			5. Circ. / condition.	1.00	8.00	
BIT DATA		WEATHER / RIG RESPONSE			6. Deviation survey			
Bit Run	RR3	Wind Speed (kts)			7. Run casing	9.50		
Diameter	6 1/8	Direction			8. Cementing			
Type & manufacture	Varel L127	Temperature			9. Handle Preventors			
IADC code	127	Barometric pressure millibar			10. Riser, flowline			
Serial number	180115	Barometer rise / fall			11. Logging.			
Nozzles	12.12.12	Visibility(NM)			12. Press. test BOP			
Depth In (m)	674m	Sea state			13. Repair rig.	0.50	2.00	
Depth Out	RNG	Swell / Period / Direction			14. Service rig.			
Drilled (m cum/dly)	168m	Waves / period / direction			15. Slip / cut drg line			
Hours (cum/dly)	9	Heave			16. Drill stem test.			
Dull grade		Pitch			17. Fishing.			
Average ROP (m/hr)		Roll			18. Well control.			
WOB Klbs	5	Anchor tension			19. Hang-off.			
RPM	90	Anchor tension			21. W.O.Weather			
Jet velocity		Riser tension			22. Lost circ.		1.00	
HHP @ BIT		VARIABLE DECK LOAD (Kips)			23. Plug / Abandon.			
BHA No.	3	BHA WEIGHT		STRING WT	24. Mob / Demob			
BHA Profile :	Bit / 2 Dc / Stab / 9 x 4% DC							
DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA			25. Handle anchors.		
			DRAG - UP (m)			26. Position rig.		
			DRAG - DOWN (m)			27. Guide base / ROV.		
			TORQUE-On Bottom (amps)			28. Coring		3.00
			TORQUE-Off Bottom (amps)			29.Travel	1	6.00
						30. W O Cement		
						<b>TOTAL (HRS)</b>	<b>12.00</b>	<b>108.50</b>







# LAKES OIL NL

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## FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 24 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 6  
(Including this one)

### MESSAGE:

Please find attached Daily Drilling Report No.11 for the Deadman Hill No. 1 Stratigraphic Core Hole.

① Bruce ② Koursh  
 - FYI  
 - Koursh  
 not in today  
 - ill.  
 - Need for  
 W/E forecast?  
 - Who is on W/E  
 call



# LAKES OIL N.L.

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Deadman Hill Location  
Longford Vic.

**915149 042**

24<sup>th</sup> May 2002

**Daily Report No. 12 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 23.5.02

Drilled to 642 m in Golden Beach Fm

Next 24 hrs

Change out drill pipe.

Drill ahead.

*Jack Mulready*

915149 043

## Lakes Oil Daily Drilling Report

WELL: Deadman Hill  
 PERMIT: PEP-157  
 RIG: Sides Engineering

DATE: 24-May-02  
 REPORT #: 14  
 D.F.S.: 13

DEPTH 0600 Hrs: 742.00 m STATUS @ 06:00 Hrs: Drill ahead.  
 TVD: 742.00 m FORMATION: Golden Beach  
 24 HR PROGRESS: 163.00 m LAST CASING: 7 @ 548.5m SHOE L.O.T.:           
 HOLE SIZE: 6-1/8" WD (LAT):          RT - GL / Air gap:          MAASP:         

SURVEYS:         

MUD PROPERTIES			CONSUMABLES			FORMATION DATA			
Sample taken @		575		Rig	Workboos	Workboos	Name	Golden Beach	
Flowline Temp °C			Fuel				Lithology		
Weight ppg / SG		8.5	Potable water				Top depth RT.	558.00 m	
Funnel viscosity		33	Drill water				Trip gas %		
PV/YP(cp/lb/100ft <sup>2</sup> )			Berites				Connection Gas %		
Gels 10secs / 10min			Cement				Background gas %		
WL APH(cc/30min)			Gel				ECD (ppg)		
WL HTHP(cc/30min)			Base Oil				DRILLS / BOPS		
Cake (1/32")			PUMPS			1	2	3	
Solids %			TYPE	Clark			LAST BOP DRILL	15-May	
Sand %			STROKE(m)	10			LAST FIRE DRILL		
MBT(lb/bbl)			LINER(in)	5 1/2			LAST MOB DRILL		
PH			SPM	41			LAST ABN. RIG DRILL		
Chlorides (mg/l)			GPM	182			LAST BOP TEST	14-May	
KCl %		2	AV-DP(FV/min)	160			BOP TEST DUE	21-May	
PHPA (Calc ppb)		1/2	AV-DC(FV/min)						
Hole volume bbls.		69 / 46	SPP(kPa/psi)						
Surface volume bbls.		60	SCR @ 40						
			SCR @ 50						
BIT DATA			WEATHER / RIG RESPONSE						
Bit Run	RR3		Wind Speed (kts)				5. Circ. / condition.	1.00	8.00
Diameter	6 1/8		Direction				6. Deviation survey		
Type & manufacture	Varel L127		Temperature				7. Run casing		9.50
IADC code	127		Barometric pressure millibar				8. Cementing		
Serial number	180115		Barometer rise / fall				9. Handle Preventors		
Nozzles	12.12.12		Visibility(NM)				10. Riser, flowline		
Depth In (m)	574m		Sea state				11. Logging		
Depth Out	RNG		Swell / Period / Direction				12. Press. test BOP		
Drilled (m cum/dly)	168m		Waves / period / direction				13. Repair rig.	0.50	2.00
Hours (cum/dly)	9		Heave				14. Service rig.		
Dull grade			Pitch				15. Slip / cut drlg line		
Average ROP (m/hr)			Roll				16. Drill stem test.		
WOB Klbs	5		Anchor tension				17. Fishing		
RPM	90		Anchor tension				18. Well control.		
Jet velocity			Riser tension				19. Hang-off.		
HHP @ BIT			VARIABLE DECK LOAD (Klbs)				20. W.O. Weather		
BHA No.	3	BHA WEIGHT				STRING WT	21. Lost circ.		1.00
BHA Profile :	Bit / 2 Dc / Stab / 9 x 4 3/4" DC						22. Plug / Abandon.		
							23. Mob / Demob		
							24. Handle anchors.		
							25. Position rig.		
							26. Guide base / ROV.		
							27. Coring		3.00
							28. Travel	1	6.00
							29. W O Cement		
							30. TOTAL (HRS)	12.00	108.50



915149 045

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 12****Date: 23-05-2002****Depth: 742m****Progress: 153m****Days from Spud: 12**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	7' at 549m

**Comments:**

RIH with 6.125" drilling assembly, Trip gas at 589m 1 unit, drill ahead 589-742m.

Interval (mRT)	Hydrocarbon Show Summary	Gas
589-742	No show	0-Trace
693-742	No show	Tr - 2 units

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzelecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog

915149 046

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 12****Lithological and Fluorescence Description**

Interval (m)	Description
589-647	<p><b>SILTY CLAYSTONE:</b> (60%) off white to medium grey, slightly to very silty, very finely arenaceous with quartz and partially altered feldspar sand grains in part, rarely slightly calcareous, trace black coaly specks, trace micromica, rare pyrite, firm, sticky in sample, non fissile.</p> <p>Interbedded with:</p> <p><b>SANDSTONE:</b> (39%) very light grey, very fine to rarely coarse, dominantly very fine to fine, angular to subrounded, dominantly subangular, moderately sorted, abundant white argillaceous matrix, weak silica cement, occasional dolomite and pyrite cement, quartzose with common partially altered feldspar grains, trace grey lithics, trace coarse clear mica flakes, trace black coaly detritus, friable, poor to fair inferred porosity, no oil fluorescence.</p> <p>and minor:</p> <p><b>DOLOMITE:</b> (1%) medium brown, cryptocrystalline, common dispersed very fine to fine quartz sand grains, trace pyrite, very hard.</p>
647-693	<p><b>SANDSTONE:</b> (70%) very light grey, very fine to medium, dominantly very fine to fine, angular to subrounded, dominantly subangular, moderately sorted, abundant white argillaceous matrix, weak silica cement, trace pyrite cement, quartzose with common partially altered feldspar grains, trace grey green and brown lithics, trace coarse clear and brown mica flakes in part, trace black coaly detritus, friable, poor to fair inferred porosity, no oil fluorescence.</p> <p>Interbedded with:</p> <p><b>SILTY CLAYSTONE:</b> (30%) medium grey, slightly to very silty, rarely very finely arenaceous with quartz and partially altered feldspar sand grains, rarely slightly calcareous, trace black coaly specks and detritus, trace micromica, rare pyrite, firm, sticky in sample, non fissile.</p> <p>With rare:</p> <p><b>DOLOMITE:</b> (Trace) light to medium brown, cryptocrystalline, common to abundant dispersed very fine to fine quartz sand grains, trace pyrite, very hard.</p>
693-742	<p><b>SANDSTONE:</b> (20%) very light grey, very fine to medium, dominantly very fine to fine, angular to subrounded, dominantly subangular, moderately sorted, abundant off white argillaceous matrix, weak to moderate silica cement, trace dolomite and pyrite cement, quartzose with abundant partially altered feldspar grains, common grey green and brown lithics, trace black coaly detritus, trace mica flakes, friable, poor inferred porosity, no oil fluorescence.</p> <p>Interbedded with:</p> <p><b>SILTY CLAYSTONE:</b> (80%) light to medium grey, rarely greenish grey, slightly to very silty, very finely arenaceous with quartz and partially altered feldspar sand grains in part, slightly calcareous in part, trace black coaly specks and detritus, trace micromica, rare pyrite, firm, sticky in sample, non fissile.</p>



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## FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 23 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report - Deadman Hill No.1

**No. OF PAGES:** 7  
(Including this one)

### MESSAGE:

Please find attached Daily Drilling Report No.11 for the Deadman Hill No. 1 Stratigraphic Core Hole.



# LAKES OIL N.L.

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Deadman Hill Location  
Longford Vic.

23rd May 2002

**Daily Report No. 11 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 22.5.02

Cut Core#1 565-574 m POH

Recovered 3.9 m 41%

RIH drilled to 589 m

Next 24 hrs

Drill to TD

*Jack Mulready*



915149 049

# Lakes Oil Daily Drilling Report

WELL: Deadman Hill  
 PERMIT: PEP-157  
 RIG: Sides Engineering

DATE: 23-May-02  
 REPORT #: 13  
 D.F.S.: 12

DEPTH 0600 Hrs: 589.00 m STATUS @ 06:00 Hrs: Drill ahead.  
 TVD: 689.00 m FORMATION: Golden Beach  
 24 HR PROGRESS: 24.00 m LAST CASING: 7 @ 648.5m SHOE L.O.T.:           
 HOLE SIZE: 6-1/8" WD (LAT):          RT - GL / Air gap:          MAASP:           
 SURVEYS:         

MUD PROPERTIES		CONSUMABLES			FORMATION DATA	
Sample taken @	575	Rig	Workboat	Workboat	Name	Golden Beach
Flowline Temp °C		Fuel			Lithology	
Weight ppg / SG	8.5	Potable water			Top depth RT.	558.00 m
Funnel viscosity.	33	Drill water			Trip gas %	
PV/YP(cc/lb/100RZ)		Barites			Connection Gas %	
Gels 10secs / 10min		Cement			Background gas %	
WL API(cc/30min)		Gel			ECD (ppg)	
WL HTHP(cc/30min)		Base Oil			DRILLS / BOPS	
Cake (1/32")		PUMPS	1	2	3	LAST BOP DRILL
Solids %		TYPE	Clark			15-May
Sand %		STROKE(in)	10			LAST FIRE DRILL
MBT(lb/bbl)		LINER(in)	5 1/2			LAST MOB DRILL
PH		SPM	41			LAST ABN. RIG DRILL
Chlorides (mg/l)		GPM	192			LAST BOP TEST
KCl %	2	AV-DP(FU/min)	160			14-May
PHPA (Calc ppb)	1/2	AV-DC(FU/min)				BOP TEST DUE
		SPP(kPa/psi)				HRS
Hole volume bbls.	69 / 46	SCR @ 40				CUM
Surface volume bbls.	60	SCR @ 50				1. Rig up / down.
BIT DATA		WEATHER / RIG RESPONSE				
Bit Run	RR3	Wind Speed (kts)				27.00
Diameter	6 1/8	Direction				2. Drilling.
Type & manufacture	Varel L127	Temperature				1.00
IADC code	127	Barometric pressure millibar				21.00
Serial number	180115	Barometer rise / fall				3. Reaming.
Nozzles	12.12.12	Visibility(NM)				2.00
Depth In (m)	574m	Sea state				7.00
Depth Out	RNG	Swell / Period / Direction				19.50
Drilled (m cum/dly)		Waves / period / direction				5. Circ. / condition.
Hours (cum/dly)	1	Heave				0.50
Dull grade		Pitch				7.00
Average ROP (m/hr)		Roll				6. Deviation survey
WOB Klbs	5	Anchor tension				7. Run casing
RPM	90	Anchor tension				9.50
Jet velocity		Riser tension				8. Cementing
HHP @ BIT		VARIABLE DECK LOAD (Kpa)				9. Handle Preventors
BHA No.	3	BHA WEIGHT				10. Riser, flowline
BHA Profile :	Bit / 2 Dc / Stab / 9 x 4 1/2" DC		STRING WT			11. Logging.
DOWNHOLE TOOLS		SERIAL No.	ROT/REAM HRS	DRILLING DATA		12. Press. test BOP
				DRAG - UP (m)		13. Repair rig.
				DRAG - DOWN (m)		1.50
				TORQUE-On Bottom (amps)		14. Service rig.
				TORQUE-Off Bottom (amps)		15. Slip / cul drlg line
						16. Drill stem test
						17. Fishing.
						18. Well control.
						19. Hang-off.
						21. W.O Weather
						22. Lost circ.
						1.00
						23. Plug / Abandon.
						24. Mob / Demob
						25. Handle anchors.
						26. Position rig.
						27. Guide base / ROV.
						28. Coring
						3.00
						3.00
						29. Travel
						1
						6.00
						30. W O Cement
						TOTAL (HRS)
						12.50
						97.50



915149 051

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 11****Date: 22-05-2002****Depth: 588m****Progress:23m****Days from Spud: 11**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Homer	<b>Last Casing:</b>	7' at 549m

**Comments:**

RIH with core barrel, cut 2.375" core from 565.0-574.0m. Cut 9m. Recovered 566.0-569.7m (3.7m or 41% recovery). RIH with 6.125" drilling assembly, drill ahead 574-588m..

Interval (mRT)	Hydrocarbon Show Summary	Gas
565-588	No show	0

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371	554	-494	183 Low
Strzlecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog

915149 052

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 11****Lithological and Fluorescence Description**

Interval (m)	Description
565-569	<p><b>SILTY CLAYSTONE:</b> (100%) medium grey to occasionally medium dark grey, slightly to very silty, occasionally very finely arenaceous with quartz and partially altered feldspar sand grains, trace to common black coaly specks, trace to occasionally common micromica, firm, non fissile.</p>
569-574	<p><b>SANDSTONE:</b> (100%) very light grey to occasionally light brown grey, very fine to rarely coarse, dominantly very fine to fine, angular to subrounded, dominantly subangular, poor to moderate sorting, common to abundant white argillaceous matrix, quartzose with abundant partially altered feldspar grains, trace to occasionally common grey lithics, trace fine black coaly detritus, friable, fair visual porosity, no oil fluorescence.</p>
574-588	<p><b>SILTY CLAYSTONE:</b> (50%) medium grey, slightly to very silty, occasionally very finely arenaceous with quartz and partially altered feldspar sand grains, trace black coaly specks, trace micromica, firm, sticky in sample, non fissile.</p> <p>Interbedded with:</p> <p><b>SANDSTONE:</b> (50%) very light grey, very fine to rarely coarse, dominantly fine to fine, angular to subrounded, dominantly subangular, moderately sorted, common to abundant white argillaceous matrix, quartzose with common partially altered feldspar grains, trace grey lithics, common coarse clear and brown mica flakes, trace black coaly detritus, friable, poor to fair inferred porosity, no oil fluorescence.</p>

915149 053

CORE # 1	<p>DEADMANS HILL No.1 CORE No.1 CUT 565.0 - 574.0m  RECOVERED 566.0 to 569.7m (3.7m) (41% recovery).  From drill rate correlation, the missing section of the core has been assessed to be 1 meter of core (presumably silty claystone) from the top lost due to pump problems and pump pressure build-ups, with the remaining loss of 4.3m (presumably friable very fine to fine grained sandstone) from the base of the core.</p> <p><b>LITHOLOGY:</b>  566.0 - 569.0m  <b>SILTY CLAYSTONE:</b> medium grey to occasionally medium dark grey, slightly to very silty, occasionally very finely arenaceous with quartz and partially altered feldspar sand grains, trace to common black coaly specks, trace to occasionally common micromica, firm, non fissile.  No apparent sedimentary structure, bedding at 0 degrees, rare slickensides.</p> 569.0 - 569.7m <b>SANDSTONE:</b> very light grey to occasionally light brown grey, very fine to rarely coarse, dominantly very fine to fine, angular to subrounded, dominantly subangular, poor to moderate sorting, common to abundant white argillaceous matrix, quartzose with abundant partially altered feldspar grains, trace to occasionally common grey lithics, trace fine black coaly detritus, friable, fair visual porosity, no oil fluorescence. Thin band at top (4 cm) of coarser sandstone. No apparent sedimentary structure, bedding at 0 degrees. <b>DRILL RATES (min/m):</b> 565-566 (11.0), 566-567 (29.0), 567-568 (29.0), 568-569 (23.0), 569-570 (2.0), 570-571 (1.0), 571-572 (3.0), 572-573 (3.0), 573-574 (1.0). No ditch gas was detected whilst coring. No oil fluorescence was observed in the core. <p><b>SAMPLES TAKEN FOR ANALYSIS:</b>  2 plugs were taken from the core for porosity/permeability/grain density analysis (569.22m , 569.55m) and were sent to Core Laboratories in Perth.  2 sections of core were taken for palynological analysis (566.1m , 568.4m) and were to sent to Dr. A. Partridge in Perth.</p>



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915149 054

## FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 22 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 5  
(Including this one)

### MESSAGE:

Please find attached Daily Drilling Report No. 8 and 9 for the Deadman Hill No. 1 Stratigraphic Core Hole.



# LAKES OIL N.L.

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Deadman Hill Location  
Longford Vic.

915149 055

20th May 2002

**Daily Report No. 8 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 19.5.02

Ran 7 inch casing to 548 m

Next 24 hrs

Cement 7 inch casing, install BOPs

*Jack Mulready*

**LAKES OIL N.L.**

(A.C.N. 004 247 214)

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Melbourne, Vic. 8007  
Phone: (03) 9629 1566  
Fax: (03) 9629 1624Deadman Hill Location  
Longford Vic.**915149 056**

20th May 2002

**Daily Report No. 9 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 20.5.02

Cemented 7 inch casing at 549 m

Installed and tested BOPs

**Next 24 hrs**

Drill out casing shoe, POH, make up core barrel RIH

*Jack Mulready*



# Lakes Oil Daily Drilling Report

**WELL:**   
**PERMIT:**   
**RIG:**

**DATE:**   
**REPORT #**   
**D.F.S.**

**DEPTH 0800 Hrs:**       **STATUS @ 06:00 Hrs:**   
**TVD:**       **FORMATION:**   
**24 HR PROGRESS:**       **LAST CASING:**  @       **SHOE L.O.T.:**   
**HOLE SIZE:**       **WD (LAT):**       **RT - GL / Air gap:**       **MAASP:**

**SURVEYS:**

MUD PROPERTIES			CONSUMABLES			FORMATION DATA				
Sample taken @		675		Rig	Workboat	Workboat	Name	Golden Beach		
Flowline Temp °C			Fuel				Lithology			
Weight ppg / SG		8.5	Potable water				Top depth RT.	558.00 m		
Funnel viscosity.		33	Drill water				Trip gas %			
PV/YP(cp/lb/100RZ)			Barites				Connection Gas %			
Gels 10secs / 10min			Cement				Background gas %			
WL API(cc/30min)			Gel				ECD (ppg)			
WL HTHP(cc/30min)			Base Oil				DRILLS / BOPS			
Cake (1/32")			PUMPS			1	2	3	LAST BOP DRILL	15-May
Solids %			TYPE	Clark					LAST FIRE DRILL	
Sand %			STROKE(in)	10					LAST MOB DRILL	
MBT(lb/bbl)			LINER(in)	5 1/2					LAST ABN. RIG DRILL	
PH			SPM	41					LAST BOP TEST	14-May
Chlorides (mg/l)			GPM	192					BOP TEST DUE	21-May
KCl %		2	AV-DP(Ft/min)	160						
PHPA (Calc ppb)		1/2	AV-DC(Ft/min)							
			SPP(kPa/psi)							
Hole volume bbls.		89 / 46	SCR @ 40						1. Rig up / down.	27.00
Surface volume bbls.		60	SCR @ 50						2. Drilling.	21.00
BIT DATA			WEATHER / RIG RESPONSE						3. Reaming.	1.00    2.00
Bit Run		3		Wind Speed (kts)					4. Trip	8.00    19.50
Diameter		6 1/8		Direction					5. Circ. / condition.	1.00    7.00
Type & manufacture		Varel L127		Temperature					6. Deviation survey	
IADC code		127		Barometric pressure millibar					7. Run casing	9.50
Serial number		180115		Barometer rise / fall					8. Cementing	
Nozzles		12.12.12		Visibility(NM)					9. Handle Preventors	
Depth In (m)		564m		Sea state					10. Riser, flowline	
Depth Out		565m		Swell / Period / Direction					11. Logging.	
Drilled (m cum/dly)		1m		Waves / period / direction					12. Press. test BOP	
Hours (cum/dly)		1		Heave					13. Repair rig.	1.50
Dull grade		New		Pitch					14. Service rig.	
Average ROP (m/hr)				Roll					15. Slip / cut drlg line	
WOB Klbs		5		Anchor tension					16. Drill stem test.	
RPM		90		Anchor tension					17. Fishing.	
Jet velocity				Riser tension					18. Well control.	
HHP @ BIT				VARIABLE DECK LOAD (Kpsi)					19. Hang-off.	
BHA No.		3	BHA WEIGHT		STRING WT				20. W.O.Weather	
BHA Profile :		Bit / 4 x 4 3/4" DC							21. Lost circ.	1.00
DOWNHOLE TOOLS			DRILLING DATA						22. Plug / Abandon.	
	SERIAL No.	ROT/REAM HRS		DRAG - UP (mt)					23. Mob / Demob	
				DRAG - DOWN (mt)					24. Handle anchors.	
				TORQUE-On Bottom (amps)					25. Position rig.	
				TORQUE-Off Bottom (amps)					26. Guide base / ROV.	
									27. Others	0.50
									28. Travel	1    2
									29. W O Cement	
									<b>TOTAL (HRS)</b>	<b>11.00    91.00</b>





**LAKES OIL NL**

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**FACSIMILE MESSAGE**

**FAX NO:** (03) 9412 5156 **DATE:** 20 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 8  
(Including this one)

**MESSAGE:**

Please find attached Daily Drilling Report No. 6 and 7 for the Deadman Hill No. 1 Stratigraphic Core Hole.

# Lakes Oil Daily Drilling Report

<b>WELL:</b>	Deadman Hill	<b>DATE:</b>	18.5.02
<b>PERMIT:</b>	PEP-157	<b>REPORT #</b>	9
<b>RIG:</b>	Sidea Engineering	<b>D.F.S.</b>	7

<b>DEPTH 0600 Hrs:</b>	564.00 m	<b>STATUS @ 06:00 Hrs:</b>	Prepare to run 7" csg.
<b>TVD:</b>	564.00 m	<b>FORMATION:</b>	Larobe.
<b>24 HR PROGRESS:</b>	45.00 m	<b>LAST CASING:</b>	9-5/8" @ 48m
<b>HOLE SIZE:</b>	8 1/2	<b>WD (LAT):</b>	
		<b>RT - GL / Air gap:</b>	
<b>SURVEYS:</b>		<b>SHOE L.O.T.:</b>	
		<b>MAASP:</b>	

MUD PROPERTIES			CONSUMABLES			FORMATION DATA		
Sample taken @	519	564		Rig	Workboel	Workboel	Name	Golden Beach
Flowline Temp °C			Fuel				Lithology	
Weight ppg / SG	9	9.1	Potable water				Top depth RT.	558.00 m
Funnel viscosity	33	36	Drill water				Trip gas %	
PV/YP(cp/lb/100RZ)			Barites				Connection Gas %	
Gels 10secs / 10min			Cement				Background gas %	
WL API(cc/30min)			Gel				ECD (ppg)	
WL HTHP(cc/30min)			Base Oil				<b>DRILLS / BOPS</b>	
Cake (1/32")			<b>PUMPS</b>	1	2	3	LAST BOP DRILL	15-May
Solids %			TYPE	Clark			LAST FIRE DRILL	
Sand %			STROKE(in)	10			LAST MOB DRILL	
MBT(lb/bbl)			LINER(in)	5 1/2			LAST ABN. RIG DRILL	
PH			SPM	46			LAST BOP TEST	14-May
Chlorides (mg/l)			GPM	230			BOP TEST DUE	21-May
KCl %	4	4	AV-DP(F/min)	95				HRS CUM
PHPA (Calc ppb)	1/2	1/2	AV-DC(F/min)	165			1. Rig up / down.	27.00
			SPP(kPa/psi)	400			2. Drilling.	2.50 21.00
Hole volume bbls.	35	88 / 72	SCR @ 40				3. Reaming.	1.00
Surface volume bbls.	50	60	SCR @ 50				4. Trip	5.50 11.50
							5. Circ. / condition.	2.00 5.00
							6. Deviation survey	
							7. Run casing	
							8. Cementing	
							9. Handle Preventors	
							10. Riser, flowline	
							11. Logging.	
							12. Press. test BOP	
							13. Repair rig.	1.50
							14. Service rig.	
							15. Slip / cut drg line	
							16. Drill stem test.	
							17. Fishing.	
							18. Well control.	
							19. Hang-off.	
							21. W.O. Weather	
							22. Lost circ.	
							23. Plug / Abandon.	
							24. Mob / Damob	
							25. Handle anchors.	
							26. Position rig.	
							27. Guide base / ROV.	
							28. Others	0.50
							29. Travel	1 1
							30. Lost circ	1 1
							<b>TOTAL (HRS)</b>	<b>11.00 68.50</b>

DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA	
			DRAG - UP (m)	
			DRAG - DOWN (m)	
			TORQUE-On Bottom (amps)	
			TORQUE-Off Bottom (amps)	

**BHA No.** 2      **BHA WEIGHT**      **STRING WT**

**BHA Profile:** Bit / 2 x DC / Sleb / 4 x OC



**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 6****Lithological and Fluorescence Description**

Interval (m)	Description
411-417	<p><b>SILTY CLAYSTONE:</b> medium brown to occasionally dark brown, trace black carbonaceous flecks, trace micromica, soft, very dispersive, non fissile.</p> <p>Interbedded with:</p> <p><b>CLAYSTONE:</b> off white, medium green, occasionally very finely arenaceous and slightly calcareous where white, sticky, amorphous.</p> <p>With in part minor interbeds of:</p> <p><b>SANDSTONE:</b> very light grey, very fine to very coarse, dominantly medium to coarse, angular to subrounded, dominantly subangular, moderately sorted, trace white argillaceous matrix, weak silica cement, clear to opaque quartz grains, trace grey and green lithics, trace black coaly detritus, trace to common coarse mica flakes, unconsolidated to friable, good inferred porosity, no oil fluorescence.</p>
417-471	<p>Massive sandstone unit:</p> <p><b>SANDSTONE:</b> very light grey, very fine to grit, dominantly coarse, pebbly towards base, angular to subrounded, dominantly subangular, moderately sorted, trace to rarely abundant white argillaceous matrix, weak silica cement, clear to opaque quartz grains, trace grey green and red lithics, trace coarse mica flakes in part, trace black coaly detritus in part, unconsolidated to friable, fair to dominantly very good inferred porosity, no oil fluorescence.</p>
471-481	<p>Massive silty claystone unit:</p> <p><b>SILTY CLAYSTONE:</b> off white to medium brown, slightly to moderately carbonaceous, minor dispersed very fine to pebble quartz and lithic sand grains, minor black coal laminae, soft, sticky, non fissile.</p>
481-519	<p>Massive sandstone unit:</p> <p><b>SANDSTONE:</b> very light grey, very fine to pebble, dominantly coarse to very coarse, angular to subrounded, dominantly subangular, moderately sorted, trace white argillaceous matrix, weak silica cement, clear to opaque quartz grains, trace grey and green lithics, trace coarse mica flakes, trace black coaly detritus, trace pyrite in part, unconsolidated to friable, very good inferred porosity, no oil fluorescence.</p>

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 6****Date: 17-05-2002****Depth: 519m****Progress: 108m****Days from Spud: 6**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	9.625" at 49m

**Comments:**

Drill 8.5" hole from 411 to 519m. Trip gas at 411m = 1 unit, 0.5m of fill. Circulated sample at 418m.

Interval (mRT)	Hydrocarbon Show Summary	Gas
411-519	No show	0-1 units

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371			
Strzlecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog









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*Lat*  
*Long*

*51 58 26 E*  
*577 22 54 S*

## FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 17 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report - Deadman Hill No.1

**No. OF PAGES:** 7  
(Including this one)

### MESSAGE:

Please find attached Daily Drilling Report No. 5 for the Deadman Hill No. 1 Stratigraphic Core Hole.

**LAKES OIL N.L.**

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Deadman Hill Location  
Longford Vic.

**915149 067**

17th May 2002

**Daily Report No. 5 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 16.5.02

Drilled to 411 m

Still in Latrobe Fm

No shows

**Next 24 hrs**

Drill ahead to intermediate casing point, prepare to run 7" casing.

*Jack Mulready*

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 5****Date: 16-05-2002****Depth: 411m****Progress:207m****Days from Spud: 5**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	9.625" at 49m

**Comments:**

Drill 8.5" hole from 204m lost total returns at 335m. Drill 8.5" hole to 411m.

Trip gas at 204m = 1 unit with estimated 1m of fill.

Possible fracture/fault plane 208-211m - evidenced by strong dolomitization and a sheared texture to the cuttings. From 211-242m cuttings show evidence of slickensides, mylonitization and dolomitization.

Interval (mRT)	Hydrocarbon Show Summary	Gas
204-327	No show	0-1 units
327-335	Lost returns	NR
335-411	No show	0-1 units

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371			
Strzlecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog

915149 069

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 5****Lithological and Fluorescence Description**

Interval (m)	Description
204-242	<p><b>SILTY CLAYSTONE:</b> (70%) dark brown to very dark brown grey, very carbonaceous gading to coal, trace pyrite, trace slickensides, trace dolomitization, trace mylonitized dolomitic sandy material, soft, moderately dispersive, non fissile.</p> <p>Grading to and interbedded with:</p> <p><b>COAL:</b> (20%) black to dark brown, earthy texture and lustre, very argillaceous and silty in part grading to silty claystone, trace pyrite, firm.</p> <p>With a massive dolomite bed 208-211m and minor (up to 10%) 211-242m:</p> <p><b>DOLOMITE:</b> (10%) medium brown to brown black, cryptocrystalline to microcrystalline, abundant black coaly material with sheared texture in part, very argillaceous in part, occasionally very finely arenaceous, very hard, no visual porosity.</p>
242-284	<p><b>SANDSTONE:</b> (40%) light brown, very fine to coarse, dominantly medium, angular to subrounded, dominantly subangular, moderately to well sorted, trace dark brown argillaceous matrix, very weak silica cement, clear to dominantly opaque quartz grains, common off white to yellow to red to green lithics, trace black coaly detritus, unconsolidated to friable, very good inferred porosity, no oil fluorescence.</p> <p>Interbedded with:</p> <p><b>SILTY CLAYSTONE:</b> (50%) medium to very dark brown, moderately to very carbonaceous - grades in part to argillaceous coal, common very fine black carbonaceous flecks in part, trace micromica, rare pyrite, very soft to soft, sticky, moderately dispersive, non fissile.</p> <p>Grading in part to, laminated with and interbedded with:</p> <p><b>COAL:</b> (10%) black to dark brown, earthy texture and lustre, very argillaceous and silty in part grading to silty claystone, trace pyrite, firm.</p>
284-327	<p><b>SANDSTONE:</b> (40%) very light brown, very fine to pebble, dominantly coarse to very coarse, angular to subrounded, dominantly subangular, poor to moderate sorting, trace dark brown argillaceous matrix, very weak silica cement, clear to opaque quartz grains, trace coarse mica flakes, unconsolidated to friable, very good to excellent inferred porosity, no oil fluorescence.</p> <p>Interbedded with:</p> <p><b>SILTY CLAYSTONE:</b> (50%) very dark brown to brown black, moderately to very carbonaceous - grades to argillaceous coal, common very fine black carbonaceous flecks in part, very soft to soft, sticky, moderately dispersive, non fissile.</p> <p>Grading in part to, laminated and interbedded with:</p> <p><b>COAL:</b> (10%) black to dark brown, earthy texture and lustre, often very argillaceous and silty -grades to silty claystone, trace pyrite, firm.</p>
327-335	Lost returns - no samples or gas readings.

335-342	<p><b>SANDSTONE:</b> very light grey to light brown, very fine to very coarse, dominantly coarse, angular to subrounded, dominantly subangular, poor to moderate sorting, nil to trace medium brown argillaceous and silt matrix, weak silica cement, clear to opaque quartz grains, trace off white to yellow orange to red to green lithics, trace clear to green coarse mica flakes, trace black coaly detritus, unconsolidated to friable, very good inferred porosity, no oil fluorescence.</p> <p>interbedded with:</p> <p><b>SILTY CLAYSTONE:</b> medium to very dark brown, moderately to very carbonaceous - grades to argillaceous coal, common very fine black carbonaceous flecks in part, trace micromica, trace pyrite, very soft to soft, sticky, moderately dispersive, non fissile.</p> <p>Grading in part to, laminated and interbedded with:</p> <p><b>COAL:</b> black to dark brown, earthy texture and lustre, often very argillaceous and silty - grades to silty claystone, trace pyrite, firm.</p>
342-411	<p>Massive sandstone unit:</p> <p><b>SANDSTONE:</b> very light grey, very fine to rarely pebble, dominantly coarse to very coarse, angular to subrounded, dominantly subangular, moderately sorted, nil to trace white argillaceous matrix, minor dark brown argillaceous matrix at top, very weak silica cement, clear to opaque quartz grains, trace grey green and red lithics, trace black coaly detritus, trace coarse mica flakes in part, trace pyrite, unconsolidated to friable, very good inferred porosity, no oil fluorescence.</p>

915149 071

## Lakes Oil Daily Drilling Report

<b>WELL:</b>	Deadman Hill	<b>DATE:</b>	16.5.02
<b>PERMIT:</b>	PEP-157	<b>REPORT #</b>	7
<b>RIG:</b>	Sidas Engineering	<b>D.F.S.</b>	5

<b>DEPTH 0600 Hrs:</b>	411.00 m	<b>STATUS @ 06:00 Hrs:</b>	Prepare to run casing.
<b>TVD:</b>	411.00 m	<b>FORMATION:</b>	Lalroba.
<b>24 HR PROGRESS:</b>	207.00 m	<b>LAST CASING:</b>	9-5/8" @ 49m
<b>HOLE SIZE:</b>	8 1/2	<b>WD (LAT):</b>	
<b>SURVEYS:</b>	RT - GL / Air gap: MAASP:		

MUD PROPERTIES		CONSUMABLES			FORMATION DATA			
Sample taken @	220      204		Rig	Workboat	Workboat	Name      Lalroba.		
Flowline Temp °C		Fuel				Lithology		
Weight ppg / SG	9.2      9.2	Potable water				Top depth RT.		
Funnel viscosity.	39      48	Drill water				Trip gas %		
PV/NP(cc/lb/100HZ)		Bantes				Connection Gas %		
Gels 10secs / 10min		Cement				Background gas %		
WL API(cc/30min)		Gel				ECD (ppg)		
WL HTHP(cc/30min)		Base Oil				<b>DRILLS / BOPS</b>		
Cake (1/32')		<b>PUMPS</b>	1	2	3	LAST BOP DRILL	15-May	
Solids %		<b>TYPE</b>	Clark			LAST FIRE DRILL		
Sand %		<b>STROKE(In)</b>	15			LAST MOB DRILL		
MBT(lb/bbl)		<b>LINER(In)</b>	5 1/2			LAST ABN. RIG DRILL		
PH		<b>SPM</b>	45			LAST BOP TEST	14-May	
Chlorides (mg/l)		<b>GPM</b>	230			<b>BOP TEST DUE</b>	21-May	
KCl %	6      6	<b>AV-DP(Ft/min)</b>	95				<b>HRS</b> <b>CUM</b>	
PHPA (Calc ppb)	1/2      1	<b>AV-DC(Ft/min)</b>	165			1. Rig up / down.	27.00	
		<b>SPP(kPa/psi)</b>	400			2. Drilling.	6.50      18.50	
Hole volume bbls.	35      88 / 72	<b>SCR @ 40</b>				3. Reaming.	1.00	
Surface volume bbls.	60      60	<b>SCR @ 50</b>				4. Trip	2.00      6.00	
<b>BIT DATA</b>		<b>WEATHER / RIG RESPONSE</b>						
Bit Run	2	Wind Speed (kts)				5. Circ. / condition.	0.50      1.00	
Diameter	8 1/2	Direction				6. Deviation survey		
Type & manufacture	Varel L114	Temperature				7. Run casing		
IADC code	114	Barometric pressure millibar				8. Cementing		
Serial number	105479	Barometer rise / ft/d				9. Handle Preventors		
Nozzles	14.14.11	Visibility(NM)				10. Riser, flowline		
Depth In (m)	60m	Sea state				11. Logging.		
Depth Out	411m	Swell / Period / Direction				12. Press. test BOP		
Drilled (m cum/dly)	351m	Waves / period / direction				13. Repair rig.	1.50      1.50	
Hours (cum/dly)	11.5	Heave				14. Service rig.		
Oull grade	RNG	Pitch				15. Slip / cut drlg line		
Average ROP (m/hr)	28.0	Roll				16. Drill stem test		
WOB Klbs		Anchor tension				17. Fishing.		
RPM	70	Anchor tension				18. Well control.		
Jet velocity		Riser tension				19. Hang-off.		
HHP @ BIT		<b>VARIABLE DECK LOAD (Klbs)</b>				20. W.O. Weather		
<b>BHA No.</b>	2	<b>BHA WEIGHT</b>		<b>STRING WT</b>		21. Lost circ.		
<b>BHA Profile :</b>	Bit / 2 x DC / Stab / 4 x DC						22. Lost circ.	
						23. Plug / Abandon.		
						24. Mob / Demob		
						25. Handle anchors.		
						26. Position rig.		
<b>DOWNHOLE TOOLS</b>		<b>SERIAL No.</b>	<b>ROT/REAM HRS</b>	<b>DRILLING DATA</b>				
				DRAG - UP (ml)		27. Guide base / ROV.		
				DRAG - DOWN (ml)		28. Others	0.50      0.50	
				TORQUE-On Bottom (amps)		29. Travel	1      1	
				TORQUE-Off Bottom (amps)		30. Lost circ	1      1	
				<b>TOTAL (HRS)</b>		13.00	57.50	





**915149 073**



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**FACSIMILE MESSAGE**

**FAX NO:** (03) 9412 5156 **DATE:** 16 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 6  
(Including this one)

**MESSAGE:**

Please find attached Daily Drilling Report No. 4 for the Deadman Hill No. 1 Stratigraphic Core Hole.

**LAKES OIL N.L.**

(A.C.N. 004 247 214)

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Phone: (03) 9629 1566  
Fax: (03) 9629 1624**915149 074**Deadman Hill Location  
Longford Vic.

16th May 2002

**Daily Report No.4 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 15.5.02

Drilled to 204 m

Top Latrobe Fm at 100 m.

No shows

Next 24 hrs

Drill ahead to intermediate casing point.

*Jack Mulready*

915149 075

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 4****Lithological and Fluorescence Description**

Interval (m)	Description
60 - 82	<p><b>LIMESTONE:</b> (100%) light to medium grey, slightly to moderately argillaceous, moderate cryptocrystalline calcite cement, common fossil fragments including bryozoa, shells and forams, trace to common glauconite, rare pyrite, hard, very poor visual porosity, no oil fluorescence.</p> <p>With depth grading to:</p> <p><b>LIMESTONE:</b> (50%) (calcilutite) off white to light grey, slightly to occasionally very argillaceous, trace fossil fragments including bryozoa, shells and forams, trace glauconite, very soft and sticky, non fissile.</p> <p>Grading to and increasing with depth of:</p> <p><b>MARL:</b> (50%) light to medium grey, slight to moderate argillaceous content, trace fossil fragments, trace glauconite, very soft sticky, non fissile.</p>
82 - 101	<p><b>MARL:</b> (100%) light to medium grey to medium green grey, trace increasing to common with depth fossil fragments including bryozoa, shells and forams, rare glauconite, abundant glauconite at base, very soft sticky, non fissile.</p>
101-140	<p><b>COAL:</b> (90%) black to very dark brown, earthy to occasionally fibrous texture, earthy lustre, often moderately to very argillaceous and silty, trace medium brown resinous material, rare very fine to coarse quartz sand grains, trace pyrite, firm.</p> <p>With minor:</p> <p><b>SANDSTONE:</b> (10%) very light grey, very fine to dominantly coarse, sunrounded to rounded, moderately sorted, no visible matrix, no visible cement, clear to opaque quartz grains, common black coal detritus, unconsolidated, very good inferred porosity, no oil fluorescence.</p> <p>With rare laminated:</p> <p><b>SILTSTONE:</b> (Trace) dark brown grey, moderately argillaceous, moderately to very carbonaceous, common to abundant fine black coally detritus, soft, very dispersive, non fissile.</p>
140-204	<p><b>SANDSTONE:</b> (40%) very light brown grey, very fine to coarse, dominantly medium, angular to rounded, dominantly subrounded, poor to moderate sorting, trace off white argillaceous matrix, very weak silica cement, clear to opaque quartz grains, common to abundant off white to light brown to green lithics, abundant clear to green coarse mica flakes, unconsolidated to slightly friable, very good inferred porosity, no oil fluorescence.</p> <p>Interbedded with:</p> <p><b>COAL:</b> (50%) black to very dark brown, earthy to occasionally fibrous texture, earthy lustre, moderately argillaceous and silty in part, often very argillaceous and silty at base of coal units, trace to common pyrite, firm.</p> <p>In part grading to and occasionally interbedded with:</p> <p><b>SILTY CLAYSTONE:</b> (10%) dark brown grey, very carbonaceous, common very fine to fine black coally detritus, soft, very dispersive, non fissile.</p>

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 4****Date: 15-05-2002****Depth: 204m****Progress: 144m****Days from Spud: 4**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	9.625" at 49m

**Comments:**

Make up 8.5" BHA, RIH, drill ahead with 8.5" hole to 204m.

Pick reliability of Lakes Entrance Formation is poor due to gradational lithologies at the base of the Gippsland Limestone.

Pick reliability of LaTrobe Group - good.

Interval (mRT)	Hydrocarbon Show Summary	Gas
60-82	No show	0
82-101	No show	0-1 units
101-204	No show	0-1 units

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84	82	-22	2 High
LaTrobe Group	96	101	-41	5 Low
Golden Beach Formation	371			
Strzlecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog

915149 077

## Lakes Oil Daily Drilling Report

<b>WELL:</b>	Deadman Hill	<b>DATE:</b>	15.5.02
<b>PERMIT:</b>	PEP-157	<b>REPORT #</b>	6
<b>RIG:</b>	Sides Engineering	<b>D.F.S.</b>	4

<b>DEPTH 0600 Hrs:</b>	204.00 m	<b>STATUS @ 08:00 Hrs:</b>	Drill 8 1/2" hole.
<b>TVD:</b>	204.00 m	<b>FORMATION:</b>	Letrobe
<b>24 HR PROGRESS:</b>	144.00 m	<b>LAST CASING:</b>	9-5/8" @ 49m
<b>HOLE SIZE:</b>	8/01/02	<b>WD (LAT):</b>	
<b>SURVEYS:</b>		<b>RT - GL / Air gap:</b>	
		<b>SHOE L.O.T.:</b>	
		<b>MAASP:</b>	

MUD PROPERTIES			CONSUMABLES			FORMATION DATA		
Sample taken @	130	204		Rig	Workboal	Workboal	Name	Letrobe.
Flowline Temp °C			Fuel				Lithology	
Weight ppg / SG	8.8	9.2	Potable water				Top depth RT.	
Funnel viscosity.	30	53	Drill water				Trip gas %	
PV/YP(cp/lb/100ft <sup>2</sup> )			Baries				Connection Gas %	
Gels 10secs / 10min			Cement				Background gas %	
WL API(cc/30min)			Gel				ECD (ppg)	
WL HTHP(cc/30min)			Base Oil				<b>DRILLS / BOPS</b>	
Cake (1/32")			<b>PUMPS</b>	1	2	3	LAST BOP DRILL	15-May
Solids %			TYPE	Clerk			LAST FIRE DRILL	
Sand %			STROKE(in)	15			LAST MOB DRILL	
MBT(lb/bbl)			LINER(in)	5 1/2			LAST ABN. RIG DRILL	
PH			SPM	45			LAST BOP TEST	14-May
Chlorides (mg/l)			GPM	230			BOP TEST DUE	21-May
KCl %	4	6	AV-DP(F/min)	95				<b>HRS</b> <b>CUM</b>
PHPA (Calc ppb)	1/2	1/3	AV-DQ(F/min)	165			1. Rig up / down.	27.00
			SPP(kPa/psi)	400			2. Drilling.	4.50      12.00
Hole volume bbls.	35	45	SCR @ 40				3. Reaming.	1.00      1.00
Surface volume bbls.	50	50	SCR @ 50				4. Trip	3.00      4.00
							5. Circ. / condition.	0.50      1.00
							6. Deviation survey	
							7. Run casing	
							8. Cementing	
							9. Handle Preventors	
							10. Riser, flowline	
							11. Logging.	
							12. Press. test BOP	
							13. Repair rig.	
							14. Service rig.	
							15. Slip / cut drig line	
							16. Drill stem test	
							17. Fishing.	
							18. Well control.	
							19. Hang-off.	
							21. W.O.Weather	
							22. Lost circ.	
							23. Plug / Abandon.	
							24. Mob / Demob	
							25. Handle anchors.	
							26. Position rig.	
							27. Guide base / ROV.	
							28. Others	0.50
							Travel	1
							<b>TOTAL (HRS)</b>	<b>10.50      45.00</b>

<b>BIT DATA</b>		<b>WEATHER / RIG RESPONSE</b>	
Bit Run	2	Wind Speed (kts)	
Diameter	8 1/2	Direction	
Type & manufacture	Varel L114	Temperature	
IADC code	114	Barometric pressure millibar	
Serial number	105479	Barometer rise / fall	
Nozzles	14.14.11	Visibility(NM)	
Depth In (m)	60m	Sea state	
Depth Out	204m	Swel / Period / Direction	
Drilled (m cum/dly)	144m	Waves / period / direction	
Hours (cum/dly)	4.5	Heave	
Dull grade	RNG	Pitch	
Average ROP (m/hr)	32.0	Roll	
WOB Klbs		Anchor tension	
RPM	70	Anchor tension	
Jet velocity		Riser tension	
HHP @ BIT		<b>VARIABLE DECK LOAD (Klbs)</b>	
<b>BHA No.</b>	<b>2</b>	<b>BHA WEIGHT</b>	<b>STRING WT</b>
<b>BHA Profile :</b>	Bit / 2 x DC / Stab / 4 x DC		

DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA	
			DRAG - UP (m)	
			DRAG - DOWN (m)	
			TORQUE-On Bottom (amps)	
			TORQUE-Off Bottom (amps)	



15.MAY.2002 9:51

61 3 96291624  
61 3 96291624

NO. 747 P. 1



**LAKES OIL NL**

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Fax: (03) 9629 1624

*Jack Malwood 0409006550*

**FACSIMILE MESSAGE**

**FAX NO:** (03) 9412 5156 **DATE:** 15 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 5  
(Including this one)

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**MESSAGE:**

Please find attached Daily Drilling Report No. 3 for the Deadman Hill No. 1 Stratigraphic Core Hole.

**FAX NO -61-3-9629-1624**  
**IF YOU HAVE ANY PROBLEMS WITH THE TRANSMISSION PLEASE CALL**  
**-61-3-9629-1566**



# LAKES OIL N.L.

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Fax: (03) 9629 1624

**915149 080**

Deadman Hill Location  
Longford Vic.

15th May 2002

**Daily Report No.3 Deadman Hill Stratigraphic Hole**

11 hrs to 6 p.m 14.5.02

Installed and tested BOPs

Next 24 hrs

Drill ahead

*Jack Mulready*



915149.081

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 3****Date: 14-05-2002****Depth: 60m****Progress:0m****Days from Spud: 3**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	9.625" at 49m

**Comments:**

Nipple up and pressure test BOP's.

Interval (mRT)	Hydrocarbon Show Summary	Gas
	No new formation drilled.	

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84			
LaTrobe Group	96			
Golden Beach Formation	371			
Strzlecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog

915149 082

# Lakes Oil Daily Drilling Report

WELL:	Deadman Hill	DATE:	14.502
PERMIT:	PEP-157	REPORT #:	5
RIG:	Sides Engineering	D.F.S.:	3

DEPTH 0600 Hrs:		STATUS @ 06:00 Hrs:	
TVD:		FORMATION:	
24 HR PROGRESS:		LAST CASING:	@
HOLE SIZE:		WD (LAT):	RT - GL / Air gap: MAASP:
SURVEYS:			

MUD PROPERTIES	CONSUMABLES	FORMATION DATA	
Sample taken @	Rig	Name	
Flowline Temp °C	Workboat	Lithology	
Weight ppg / SG	Fuel	Top depth RT.	
Funnel viscosity	Potable water	Trip gas %	
PV/YP(ep/lb/100ft <sup>2</sup> )	Drill water	Connection Gas %	
Gels 10secs / 10min	Barites	Background gas %	
WL API(cc/30min)	Cement	ECD (ppg)	
WL HTHP(cc/30min)	Gel	DRILLS / BOPS	
Cake (1/32")	Base Oil	1. LAST BOP DRILL	
Solids %	PUMPS      1      2      3		
Sand %	TYPE		
MBT(lb/bbl)	STROKE(in)		
PH	LINER(in)		
Chlorides (mg/l)	SPM		
KCl %	GPM		
PHPA (Calc ppb)	AV-DP(F/min)		
	AV-DC(F/min)		
	SPP(kPa/psi)		
Hole volume bbls.	SCR @ 40		
Surface volume bbls.	SCR @ 50		
BIT DATA		WEATHER / RIG RESPONSE	
Bit Run	Wind Speed (kts)		5. Circ. / condition.
Diameter	Direction		6. Deviation survey
Type & manufacture	Temperature		7. Run casing
ADC code	Barometric pressure millibar		8. Cementing
Serial number	Barometer rise / fall		9. Handle Preventors
Nozzles	Visibility(NM)		10. Riser, flowline
Depth In (m)	See slate		11. Logging.
Depth Out	Swell / Period / Direction		12. Press. test BOP
Drilled (m cum/dly)	Waves / period / direction		13. Repair rig.
Hours (cum/dly)	Heave		14. Service rig.
Dull grade	Pitch		15. Slip / cut drlg line
Average ROP (m/hr)	Roll		16. Drill stem test.
WOB Klbs	Anchor tension		17. Fishing.
RPM	Anchor tension		18. Well control.
Jel velocity	Riser tension		19. Hang-off.
HHP @ BIT	VARIABLE DECK LOAD (Klbs)		20. W.O.Weather
BHA No.	BHA WEIGHT	STRING WT	21. Lost circ.
BHA Profile :			22. Plug / Abandon.
			23. Mob / Demob
			24. Handle anchors.
			25. Position rig.
			26. Guide base / ROV.
			27. Others
			28. Others
			TOTAL (HRS)      11.00      11.00





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**915149 084**

## FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 14 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 4  
(Including this one)

### MESSAGE:

Please find attached Daily Drilling Report No. 2 for the Deadman Hill No. 1 Stratigraphic Core Hole.



# LAKES OIL N.L.

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**915149 085**

Deadman Hill Location  
Longford Vic.

14th May 2002

**Daily Report No.2 Deadman Hill Stratigraphic Hole**

12 hrs to 7 p.m 13.5.02

Ran and cemented 9.5/8" casing at 49 m

Next 24 hrs

Install BOPs Drill ahead

*Jack Mulready*



915149 087

## Lakes Oil Daily Drilling Report

<b>WELL:</b>	Deadman Hill	<b>DATE:</b>	13.5.02
<b>PERMIT:</b>	PEP-157	<b>REPORT #</b>	4
<b>RIG:</b>	Slides Engineering	<b>D.F.S.</b>	2

DEPTH 0800 Hrs:		STATUS @ 08:00 Hrs:	
TVD:		FORMATION:	
24 HR PROGRESS:		LAST CASING:	
HOLE SIZE:		WD (LAT):	
SURVEYS: <span style="border: 1px solid black; display: inline-block; width: 100%; height: 15px;"></span>			

MUD PROPERTIES		CONSUMABLES			FORMATION DATA		
Sample taken @		Rig	Workboat	Workboat	Name		
Flowline Temp °C		Fuel			Lithology		
Weight ppg / SG		Potable water			Top depth RT.		
Funnel viscosity.		Drill water			Trip gas %		
PV/VP(cc/lb/100RZ)		Barites			Connection Gas %		
Gels 10secs / 10min		Cement			Background gas %		
WL API(cc/30min)		Gel			ECD (ppg)		
WL HTHP(cc/30min)		Base Oil			DRILLS / BOPS		
Cake (1/32")		PUMPS	1	2	3	LAST BOP DRILL	
Solids %		TYPE				LAST FIRE DRILL	
Sand %		STROKE(in)				LAST MOB DRILL	
MBT(lb/bbl)		LINER(in)				LAST ABN. RIG DRILL	
PH		SPM				LAST BOP TEST	
Chlorides (mg/l)		GPM				BOP TEST DUE	
KCl %		AV-DP(F/min)				HRS	CUM
PHPA (Calc ppb)		AV-DC(F/min)				1. Rig up / down.	
		SPP(kPa/psi)				2. Drilling.	
Hole volume bbls.		SCR @ 40				3. Reaming.	
Surface volume bbls.		SCR @ 50				4. Trip	
BIT DATA		WEATHER / RIG RESPONSE				5. Circ. / condition.	
Bit Run		Wind Speed (kts)				6. Deviation survey	
Diameter		Direction				7. Run casing	
Type & manufacture		Temperature				8. Cementing	
IADC code		Barometric pressure millibar				9. Handle Preventors	
Serial number		Barometer rise / fall				10. Riser, flowline	
Nozzles		Visibility(NM)				11. Logging.	
Depth In (m)		Sea state				12. Press. test BOP	
Depth Out		Swell / Period / Direction				13. Repair rig.	
Drilled (m cum/dly)		Waves / period / direction				14. Service rig.	
Hours (cum/dly)		Heave				15. Slip / cut drig line	
Dull grade		Pitch				16. Drill stem test.	
Average ROP (m/hr)		Roll				17. Fishing.	
WOB Klbs		Anchor tension				18. Well control.	
RPM		Anchor tension				19. Hang-off.	
Jet velocity		Riser tension				21. W.O Weather	
MHP @ BIT		VARIABLE DECK LOAD (Klbs)				22. Lost circ.	
BHA No.		BHA WEIGHT		STRING WT		23. Plug / Abandon.	
BHA Profile :							
DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA				
			DRAG - UP (mt)			27. Guide base / ROV.	
			DRAG - DOWN (mt)			28. Others	
			TORQUE-On Bottom (amps)				
			TORQUE-Off Bottom (amps)				
						TOTAL (HRS)	0.00    0.00



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## 915149 088

### FACSIMILE MESSAGE

**FAX NO:** (03) 9412 5156 **DATE:** 13 May 2002

**TO:** Department of Natural Resources and Environment  
Mr. Robert King

**ATTENTION:** Koursh Mehin

**FROM:** Margaret Rhodes

**RE:** Daily Drilling Report – Deadman Hill No.1

**No. OF PAGES:** 5  
(Including this one)

**MESSAGE:**

Please find attached No.1 Daily Drilling Report for the Deadman Hill No. 1 Stratigraphic Core Hole.



915149 089

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 1****Date: 12-05-2002****Depth: 60m****Progress:60m****Days from Spud: 1**

<b>Rig:</b>	Sides Bourne 2000THD	<b>GL(AHD):</b>	59m
<b>Drilling Rep:</b>	Wally Westman	<b>RT: (datum)</b>	60m
<b>Geologist:</b>	David Horner	<b>Last Casing:</b>	at m

**Comments:**

Spud Deadman Hill No.1 at 0900hrs 12th May, 2002, with freshwater gel spud mud, drill 12.25" hole to 9.625" casing point at 60m.

Interval (mRT)	Hydrocarbon Show Summary	Gas
Surface-25	No shows	0
25-60	No shows	0

Formation Tops:	Prognosed (mRT)	Actual* (mRT)	Actual* (mSS)	Difference* (High/Low)
Quaternary Gravel	Surface	Surface	Surface	0
Gippsland Limestone	4	25	+35	21 Low
Lakes Entrance Formation	84			
LaTrobe Group	96			
Golden Beach Formation	371			
Strzlecki Formation	497			
T.D.	600			

\*Provisional, based on mudlog

915149 090

**LAKES PETROLEUM N.L.**

(A.C.N. 004247214)

**DEADMAN HILL No.1 PEP 157****DAILY GEOLOGICAL REPORT No. 1****Lithological and Fluorescence Description**

Interval (m)	Description
Surface-25	SANDSTONE: (100%) light orange, very fine to coarse, dominantly fine to medium, angular to rounded, dominantly subangular, moderately sorted, clear to opaque quartz grains often with orange iron oxide staining, trace grey black and red brown volcanogenic lithic grains, abundant off white to light orange grey argillaceous and silt matrix in part, nil to occasional weak silica cement, unconsolidated to friable, very poor to good inferred porosity, no oil fluorescence.
25-45	LIMESTONE: (100%) off white to light orange, abundant bryozoa fragments, common fossil fragments including forams and shells, rare glauconite and quartz sand grains, common light to medium orange iron oxide staining, weak to moderate calcareous cement, friable to occasionally hard, fair to good inferred porosity, no oil fluorescence.
45-60	LIMESTONE: (100%) off white to medium grey, slightly to occasionally very argillaceous, very strong cryptocrystalline calcite cement in part, abundant bryozoa fragments and common forams and other fossil fragments in part, trace to common glauconite occasionally as fossil infill, friable to very hard, very poor to poor inferred porosity, no oil fluorescence.

915149 091

# Lakes Oil Daily Drilling Report

WELL:	Deadman Hill	DATE:	19.5.02
PERMIT:	PEP-157	REPORT #	3
RIG:	Sides Engineering	D.F.S.	1

DEPTH 0600 Hrs:	STATUS @ 06:00 Hrs:	FORMATION:	SHOE L.O.T.:
TVD:			
24 HR PROGRESS:	LAST CASING:	@	
HOLE SIZE:	WD (LAT):	RT - GL / Air gap:	MAASP:

SURVEYS:

MUD PROPERTIES		CONSUMABLES			FORMATION DATA		
Sample taken @		Fuel	Rig	Workboat	Workboat	Name	
Flowline Temp °C		Potable water				Lithology	
Weight ppg / SG		Drill water				Top depth RT.	
Funnel viscosity.		Berites				Trip gas %	
PV/YP(cp/lb/100R2)		Cement				Connection Gas %	
Gels 10secs / 10min		Gel				Background gas %	
W/L API(cc/30min)		Base Oil				ECD (ppg)	
W/L MHP(cc/30min)						DRILLS / BOPS	
Cake (1/32")		PUMPS	1	2	3	LAST BOP DRILL	
Solids %		TYPE				LAST FIRE DRILL	
Sand %		STROKE(in)				LAST MOB DRILL	
MBT(lb/bbl)		LINER(in)				LAST ABN. RIG DRILL	
PH		SPM				LAST BOP TEST	
Chlorides (mg/l)		GPM				BOP TEST DUE	
KCl %		AV-DP(F/min)					HRS CUM
PHPA (Calc ppb)		AV-DC(F/min)				1. Rig up / down.	2.00 24.00
		SPP(kPa/psi)				2. Drilling.	
Hole volume bbls.		SCR @ 40				3. Reaming.	
Surface volume bbls.		SCR @ 50				4. Trip	
						5. Circ. / condition.	
BIT DATA		WEATHER / RIG RESPONSE					
Bit Run	1	Wind Speed (kts)				6. Deviation survey	
Diameter	12 1/2	Direction				7. Run casing	
Type & manufacture		Temperature				8. Cementing	
IADC code		Barometric pressure millibar				9. Handle Preventors	
Serial number		Barometer rise / fall				10. Riser, flowline	
Nozzles		Visibility(NM)				11. Logging.	
Depth In (m)		Sea state				12. Press. test BOP	
Depth Out		Swell / Period / Direction				13. Repair rig.	
Drilled (m cum/dly)		Waves / period / direction				14. Service rig.	
Hours (cum/dly)		Heave				15. Slip / cut drfg line	
Dull grade		Pitch				16. Drill stem test.	
Average ROP (m/hr)		Roll				17. Fishing.	
WOB Kibs		Anchor tension				18. Well control.	
RPM		Anchor tension				19. Hang-off.	
Jet velocity		Riser tension				21. W.O. Weather	
HHP @ BIT		VARIABLE DECK LOAD (Kips)				22. Lost circ.	
BHA No.		BHA WEIGHT		STRING WT		23. Plug / Abandon.	
BHA Profile :					24. Mob / Demob		
					25. Handle anchors.		
					26. Position rig.		
DOWNHOLE TOOLS	SERIAL No.	ROT/REAM HRS	DRILLING DATA				
			DRAG - UP (mt)			27. Guide base / ROV.	
			DRAG - DOWN (mt)			28. Others	
			TORQUE-On Bottom (ampe)				
			TORQUE-Off Bottom (amps)				
						TOTAL (HRS)	2.00 24.00

