

**Input Source:** D:\OP\_Folder\Clients\ESSO\TNA\_A13\GUN\COMP\_COMB\_COMP\_092.DLIS  
**Format:** DLIS  
**Storage Set ID:** Default Storage Set

**Max Record Length:** 8192  
**Storage Unit Sequence:** 1

**File Header** File: **PERFO\_028LUP** Sequence: **1**

**Defining Origin: 35**

File ID: PERFO\_028LUP File Type: DEPTH LOG

Producer Name: Schlumberger

Product/Version: OP 14C0-302

File Set: 41

File Number: 27

4-MAY-2006 21:15:33

Company Name: Esso Australia Pty. Ltd.

Well Name: TNA\_A13

Field Name: Tuna

Tool String: SHM\_GUN, PGGT-CC

Computations: WELLCAD

**Error Summary** File: **PERFO\_028LUP** Sequence: **1**

No errors detected in file.

**Well Site Data** File: **PERFO\_028LUP** Sequence: **1**

**Origin: 35**

**Well Data**

Company Name	Esso Australia Pty. Ltd.	CN
Well Name	TNA_A13	WN
Field Name	Tuna	FN
Rig:	Rig 22 / Prod 2	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	3278	SON
Longitude	148°25' 05.29"E	LONG
Latitude	38°10' 16.00"S	LATI
Maximum Hole Deviation	27.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	-59.0 (m)	EGL
Elevation of Derrick Floor	34.2 (m)	EDF
Permanent Datum	Mean Sea Level	PDAT, EPD
Log Measured From	Kelly Bushing	LMF, APD
Drilling Measured From	Kelly Bushing	DMF
	Elevation of Permanent Datum 0.0 (m)	
	Above Permanent Datum 32.9 (m)	

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN

**Job Data**

Date as Month-Day-Year	5-May-2006	DATE
Run Number	1	RUN
Total Depth - Driller	2104.0 (m)	TDD
Total Depth - Logger	2082.5 (m)	TDL
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	1432.0 (m)	CDF
Casing Depth To	2104.5 (m)	CADT
Casing Grade	L-80	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1666.6 (m)	BSDF
Bit Size Depth To	2272.2 (m)	BSDT
Date Logger At Bottom	5-May-2006	DLAB, TLAB
Logging Unit Number	3827	LUN, LUL
Engineer's Name	Graham Fraser, Omar Tahmiscic	ENGI
Witness's Name	Jimmy Dean, John Booker	WITN
Service Order Number	3278	SON

Absent Valued Parameters: BLI, TLI

**Mud Data**

Drilling Fluid Type

Drilling Fluid Density

Date Logger At Bottom

Sea Water

1.10 (g/cm3)

5-May-2006

Time Logger At Bottom

14:30

DFT

DFD

DLAB, TLAB

Absent Valued Parameters: DfV, DfL, DfPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job TypePrimaryCJT

Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log objectives: Perforate well from 2071.0m to 2074.5m MDKB  
with 2-7/8" PURE HSD Gun  
Correlated to "TUNA A13 Correlation Log"  
Gun used: 2-7/8" PURE HSD [2906 PJ Omega HMX Charges,  
4.9 spf, 60 deg]  
API RP 19B Data: Penetration = 36.0 in; Ent Hole = 0.34 in.  
CCL to Top Shot = 3.15m  
CCL Stop Depth = 2067.85m MDKB  
Actual Top Shot = 2071.0m MDKB  
PURE design allowed only 3.41 m from Top to Bottom Shot  
40 HMX charges, 6 PURE punchers used in total  
Schlumberger crew:  
Days: Brendan Glover and Sean McGee  
Nights: Dave Stuckey and Simon Kiss

R1  
R2  
R3  
R5  
R6  
R7  
R9  
R10  
R11  
R12  
R13  
R15  
R16  
R17

Frame Summary

File: PERFO\_028LUP

Sequence: 1

Origin: 35

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2075.38	1763.88 m	-60.0 (0.1 in) up	9	TDEP	60B
	6809.00	5787.00 ft				
BOREHOLE-DEPTH	2075.38	1763.90 m	-10.0 (0.1 in) up	8	TDEP;1	10B
	6809.00	5787.08 ft				

File Header

File: PERFO\_060LDP

Sequence: 2

Defining Origin: 121

File ID: PERFO\_060LDP File Type: DEPTH LOG

Producer Name: SchlumbergerProduct/Version: OP 14C0-302File Set: 41File Number: 705-MAY-2006 10:06:23

Company Name: Esso Australia Pty. Ltd.

Well Name: TNA\_A13

Field Name: Tuna

Tool String: SHM\_GUN, PGGT-CC

Computations: WELLCAD

Error Summary

File: PERFO\_060LDP

Sequence: 2

No errors detected in file.

Well Site Data

File: PERFO\_060LDP

Sequence: 2

Origin: 121

Well Data

Company Name	Esso Australia Pty. Ltd.	CN
Well Name	TNA_A13	WN
Field Name	Tuna	FN
Rig:	Rig 22 / Prod 2	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	3278	SON
Longitude	148°25' 05.29"E	LONG
Latitude	38°10' 16.00"S	LATI

File: BFERC\_034110B Sequence: 3

<b>File Header</b>		File: PERFO_074LUP	Sequence: 3
<b>Defining Origin: 85</b>			
File ID: PERFO_074LUP File Type: DEPTH LOG			
Producer Name: Schlumberger		Product/Version: OP 14C0-302	File Set: 41
			File Number: 84
			5-MAY-2006 14:13:37
Company Name:	Esso Australia Pty. Ltd.		
Well Name:	TNA_A13		
Field Name:	Tuna		
Tool String:	SHM_GUN, PGGT-CC		
Computations:	WELLCAD		

<b>Error Summary</b>	File: PERFO_074LUP	Sequence: 3
No errors detected in file.		

<b>Well Site Data</b>	File: PERFO_074LUP	Sequence: 3
<b>Origin: 85</b>		
<b>Well Data</b>		
Company Name	Esso Australia Pty. Ltd.	CN
Well Name	TNA_A13	WN
Field Name	Tuna	FN
Rig:	Rig 22 / Prod 2	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	3278	SON
Longitude	148°25' 05.29"E	LONG
Latitude	38°10' 16.00"S	LATI
Maximum Hole Deviation	27.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	-59.0 (m)	EGL
Elevation of Derrick Floor	34.2 (m)	EDF
Permanent Datum	Mean Sea Level	PDAT, EPD
Log Measured From	Kelly Bushing	LMF, APD
Drilling Measured From	Kelly Bushing	DMF
Elevation of Permanent Datum 0.0 (m)		
Above Permanent Datum 32.9 (m)		
Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN		

<b>Job Data</b>		
Date as Month-Day-Year	5-May-2006	DATE
Run Number	1	RUN
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	1432.0 (m)	CDF
Casing Depth To	2104.5 (m)	CADT
Casing Grade	L-80	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1666.6 (m)	BSDF
Bit Size Depth To	2272.2 (m)	BSDT
Date Logger At Bottom	5-May-2006	DLAB, TLAB
Logging Unit Number	3827	LUN, LUL
Engineer's Name	Graham Fraser, Omar Tahmiscic	ENGI
Witness's Name	Jimmy Dean, John Booker	WITN
Service Order Number	3278	SON
Time Logger At Bottom 14:30		
Logging Unit Location AUSL		
Absent Valued Parameters: TDD, TDL, BLI, TLI		

<b>Mud Data</b>		
Drilling Fluid Type	Sea Water	DFT
Drilling Fluid Density	1.10 (g/cm3)	DFD
Date Logger At Bottom	5-May-2006	DLAB, TLAB
Time Logger At Bottom 14:30		
Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS		

<b>PVT Data</b>		
Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR		
<b>Cement Data</b>		
Cement Job Type	Primary	CJT
Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA		

<b>Remarks</b>		
Log objectives: Perforate well from 2071.0m to 2074.5m MDKB		

Log objectives: Penetrate well from 2071.0m to 2074.5m MDKB	R1
with 2-7/8" PURE HSD Gun	R2
Correlated to "TUNA A13 Correlation Log"	R3
Gun used: 2-7/8" PURE HSD [2906 PJ Omega HMX Charges,	R5
4.9 spf, 60 deg]	R6
API RP 19B Data: Penetration = 36.0 in; Ent Hole = 0.34 in.	R7
CCL to Top Shot = 3.15m	R9
CCL Stop Depth = 2067.85m MDKB	R10
Actual Top Shot = 2071.0m MDKB	R11
PURE design allowed only 3.41 m from Top to Bottom Shot	R12
40 HMX charges, 6 PURE punchers used in total	R13
Schlumberger crew:	R15
Days: Brendan Glover and Sean McGee	R16
Nights: Dave Stuckey and Simon Kiss	R17

<b>Frame Summary</b>	File: <b>PERFO_074LUP</b>	Sequence: <b>3</b>
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<b>Origin: 85</b>						
<u>Index Type</u>	<u>Start</u>	<u>Stop</u>	<u>Spacing</u>	<u>Channels</u>	<u>Index Channel</u>	<u>Frame Name</u>
BOREHOLE-DEPTH	2076.91	2012.75 m	-60.0 (0.1 in) up	9	TDEP	60B
	6814.00	6603.50 ft				
BOREHOLE-DEPTH	2076.91	2012.77 m	-10.0 (0.1 in) up	8	TDEP;1	10B
	6814.00	6603.58 ft				

<b>File Header</b>	File: <b>PERFO_029PUP</b>	Sequence: <b>4</b>
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<b>Defining Origin: 35</b>						
File ID: PERFO_029PUP   File Type: PLAYBACK						
Producer Name: Schlumberger		Product/Version: OP 14C0-302		File Set: 41	File Number: 28	4-MAY-2006 22:08:27
Company Name:	Esso Australia Pty. Ltd.					
Well Name:	TNA_A13					
Field Name:	Tuna					
Tool String:	SHM_GUN, PGGT-CC					
Computations:	WELLCAD					

<b>Error Summary</b>	File: <b>PERFO_029PUP</b>	Sequence: <b>4</b>
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No errors detected in file.
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<b>Well Site Data</b>	File: <b>PERFO_029PUP</b>	Sequence: <b>4</b>
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Origin: 35						
Well Data						
Company Name	Esso Australia Pty. Ltd.					CN
Well Name	TNA_A13					WN
Field Name	Tuna					FN
Rig:	Rig 22 / Prod 2					CLAB, COUN
State:	Victoria					SLAB, STAT
Nation	Australia					NATI
Field Location	Gippsland					FL
	Basin					FL1
	Bass Strait					FL2
Service Order Number	3278					SON
Longitude	148°25' 05.29"E					LONG
Latitude	38°10 16.00"S					LATI
Maximum Hole Deviation	27.0 (deg)					MHD
Elevation of Kelly Bushing	32.9 (m)					EKB
Elevation of Ground Level	−59.0 (m)					EGL
Elevation of Derrick Floor	34.2 (m)					EDF
Permanent Datum	Mean Sea Level		Elevation of Permanent Datum		0.0 (m)	PDAT, EPD
Log Measured From	Kelly Bushing		Above Permanent Datum		32.9 (m)	LMF, APD
Drilling Measured From	Kelly Bushing					DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN

<b>Job Data</b>						
Date as Month-Day-Year	5-May-2006					DATE
Run Number	1					RUN

Run Number				RUN
Total Depth – Driller	2104.0 (m)			TDD
Total Depth – Logger	2082.5 (m)			TDL
Current Casing Size	4.50 (in)			CSIZ
Casing Depth From	1432.0 (m)			CDF
Casing Depth To	2104.5 (m)			CADT
Casing Grade	L–80			CASG
Casing Weight	12.6 (lbm/ft)			CWEI
Bit Size	8.50 (in)			BS
Bit Size Depth From	1666.6 (m)			BSDF
Bit Size Depth To	2272.2 (m)			BSDT
Date Logger At Bottom	5–May–2006	Time Logger At Bottom	14:30	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location	AUSL	LUN, LUL
Engineer's Name	Graham Fraser, Omar Tahmiscic			ENGI
Witness's Name	Jimmy Dean, John Booker			WITN
Service Order Number	3278			SON
Absent Valued Parameters: BLI, TLI				
<b>Mud Data</b>				
Drilling Fluid Type	Sea Water			DFT
Drilling Fluid Density	1.10 (g/cm3)			DFD
Date Logger At Bottom	5–May–2006	Time Logger At Bottom	14:30	DLAB, TLAB
Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS				
<b>PVT Data</b>				
Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR				
<b>Cement Data</b>				
Cement Job Type	Primary			CJT
Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA				
<b>Remarks</b>				
Log objectives: Perforate well from 2071.0m to 2074.5m MDKB				R1
with 2–7/8" PURE HSD Gun				R2
Correlated to "TUNA A13 Correlation Log"				R3
Gun used: 2–7/8" PURE HSD [2906 PJ Omega HMX Charges,				R5
4.9 spf, 60 deg]				R6
API RP 19B Data: Penetration = 36.0 in; Ent Hole = 0.34 in.				R7
CCL to Top Shot = 3.15m				R9
CCL Stop Depth = 2067.85m MDKB				R10
Actual Top Shot = 2071.0m MDKB				R11
PURE design allowed only 3.41 m from Top to Bottom Shot				R12
40 HMX charges, 6 PURE punchers used in total				R13
Schlumberger crew:				R15
Days: Brendan Glover and Sean McGee				R16
Nights: Dave Stuckey and Simon Kiss				R17

<b>Frame Summary</b>							File: <b>PERFO_029PUP</b>	Sequence: <b>4</b>
<b>Origin: 35</b>								
<u>Index Type</u>	<u>Start</u>	<u>Stop</u>	<u>Spacing</u>	<u>Channels</u>	<u>Index Channel</u>	<u>Frame Name</u>		
BOREHOLE-DEPTH	2075.23	1764.18 m	-60.0 (0.1 in) up	9	TDEP	60B		
	6808.50	5788.00 ft						
BOREHOLE-DEPTH	2075.23	1764.21 m	-10.0 (0.1 in) up	8	TDEP;1	10B		
	6808.50	5788.08 ft						

<b>File Header</b>							File: <b>PERFO_032LUP</b>	Sequence: <b>5</b>	
<b>Defining Origin: 41</b>									
File ID: PERFO_032LUP    File Type: DEPTH LOG									
Producer Name: Schlumberger		Product/Version: OP 14C0-302			File Set: 41	File Number: 33	4-MAY-2006 23:34:33		
Company Name:	Esso Australia Pty. Ltd.								
Well Name:	TNA_A13								
Field Name:	Tuna								
Tool String:	SHM_GUN, PGGT-CC								
Computations:	WELLCAD								

No errors detected in file.

Origin: 41

Well Data

Company Name	Esso Australia Pty. Ltd.	CN
Well Name	TNA_A13	WN
Field Name	Tuna	FN
Rig:	Rig 22 / Prod 2	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	3278	SON
Longitude	148°25' 05.29"E	LONG
Latitude	38°10' 16.00"S	LATI
Maximum Hole Deviation	27.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	-59.0 (m)	EGL
Elevation of Derrick Floor	34.2 (m)	EDF
Permanent Datum	Mean Sea Level	PDAT, EPD
Log Measured From	Kelly Bushing	LMF, APD
Drilling Measured From	Kelly Bushing	DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN

Job Data

Date as Month-Day-Year	5-May-2006	DATE
Run Number	1	RUN
Total Depth – Driller	2104.0 (m)	TDD
Total Depth – Logger	2082.5 (m)	TDL
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	1432.0 (m)	CDF
Casing Depth To	2104.5 (m)	CADT
Casing Grade	L-80	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1666.6 (m)	BSDF
Bit Size Depth To	2272.2 (m)	BSDT
Date Logger At Bottom	5-May-2006	DLAB, TLAB
Logging Unit Number	3827	LUN, LUL
Engineer's Name	Graham Fraser, Omar Tahmiscic	ENGI
Witness's Name	Jimmy Dean, John Booker	WITN
Service Order Number	3278	SON

Absent Valued Parameters: BLI, TLI

Mud Data

Drilling Fluid Type	Sea Water	DFT
Drilling Fluid Density	1.10 (g/cm3)	DFD
Date Logger At Bottom	5-May-2006	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary	CJT
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Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log objectives: Perforate well from 2071.0m to 2074.5m MDKB	R1
with 2-7/8" PURE HSD Gun	R2
Correlated to "TUNA A13 Correlation Log"	R3
Gun used: 2-7/8" PURE HSD [2906 PJ Omega HMX Charges,	R5
4.9 spf, 60 deg]	R6
API RP 19B Data: Penetration = 36.0 in; Ent Hole = 0.34 in.	R7
CCL to Top Shot = 3.15m	R9
CCL Stop Depth = 2067.85m MDKB	R10
Actual Top Shot = 2071.0m MDKB	R11
PURE design allowed only 3.41 m from Top to Bottom Shot	R12
40 HMX charges. 6 PURE punches used in total	R13

40 NIMX charges, 61 GRE punchers used in total	R10
Schlumberger crew:	R15
Days: Brendan Glover and Sean McGee	R16
Nights: Dave Stuckey and Simon Kiss	R17

<b>Frame Summary</b> File: <b>PERFO_032LUP</b> Sequence: <b>5</b>						
<b>Origin: 41</b>						
<u>Index Type</u>	<u>Start</u>	<u>Stop</u>	<u>Spacing</u>	<u>Channels</u>	<u>Index Channel</u>	<u>Frame Name</u>
BOREHOLE-DEPTH	2084.37	1763.73 m	-60.0 (0.1 in) up	9	TDEP	60B
	6838.50	5786.50 ft				
BOREHOLE-DEPTH	2084.37	1763.60 m	-10.0 (0.1 in) up	8	TDEP;1	10B
	6838.50	5786.08 ft				

<b>File Header</b>		File: <b>PERFO_061LUP</b>	Sequence: <b>6</b>
<b>Defining Origin: 121</b>			
File ID: PERFO_061LUP    File Type: DEPTH LOG			
Producer Name: Schlumberger		Product/Version: OP 14C0-302	File Set: 41
		File Number: 71	5-MAY-2006 10:13:49
Company Name:	Esso Australia Pty. Ltd.		
Well Name:	TNA_A13		
Field Name:	Tuna		
Tool String:	SHM_GUN, PGGT-CC		
Computations:	WELLCAD		

<b>Error Summary</b> File: <b>PERFO_061LUP</b> Sequence: <b>6</b>		
No errors detected in file.		

<b>Well Site Data</b> File: <b>PERFO_061LUP</b> Sequence: <b>6</b>		
<b>Origin: 121</b>		
<b>Well Data</b>		
Company Name	Esso Australia Pty. Ltd.	CN
Well Name	TNA_A13	WN
Field Name	Tuna	FN
Rig:	Rig 22 / Prod 2	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	3278	SON
Longitude	148°25' 05.29"E	LONG
Latitude	38°10 16.00"S	LATI
Maximum Hole Deviation	27.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	-59.0 (m)	EGL
Elevation of Derrick Floor	34.2 (m)	EDF
Permanent Datum	Mean Sea Level	PDAT, EPD
Log Measured From	Kelly Bushing	LMF, APD
Drilling Measured From	Kelly Bushing	DMF
Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN		
<b>Job Data</b>		
Date as Month-Day-Year	5-May-2006	DATE
Run Number	1	RUN
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	1432.0 (m)	CDF
Casing Depth To	2104.5 (m)	CADT
Casing Grade	L-80	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1666.6 (m)	BSDF
Bit Size Depth To	2272.2 (m)	BSDT
Date Logger At Bottom	5-May-2006	DLAB, TLAB
Logging Unit Number	3827	LUN, LUL
Engineer's Name	Graham Fraser, Omar Tahmiscic	ENGI
Witness's Name	Jimmy Dean, John Booker	WITN
	Time Logger At Bottom 14:30	
	Logging Unit Location AUSL	



Witness's Name	Jimmy Dean, John Becker	Well Name	SON
Service Order Number	3278		
Absent Valued Parameters: TDD, TDL, BLI, TLI			
<b>Mud Data</b>			
Drilling Fluid Type	Sea Water		DFT
Drilling Fluid Density	1.10 (g/cm3)		DFD
Date Logger At Bottom	5-May-2006	Time Logger At Bottom	14:30
			DLAB, TLAB
Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS			
<b>PVT Data</b>			
Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR			
<b>Cement Data</b>			
Cement Job Type	Primary		CJT
Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA			
<b>Remarks</b>			
Log objectives: Perforate well from 2071.0m to 2074.5m MDKB			R1
with 2-7/8" PURE HSD Gun			R2
Correlated to "TUNA A13 Correlation Log"			R3
Gun used: 2-7/8" PURE HSD [2906 PJ Omega HMX Charges,			R5
4.9 spf, 60 deg]			R6
API RP 19B Data: Penetration = 36.0 in; Ent Hole = 0.34 in.			R7
CCL to Top Shot = 3.15m			R9
CCL Stop Depth = 2067.85m MDKB			R10
Actual Top Shot = 2071.0m MDKB			R11
PURE design allowed only 3.41 m from Top to Bottom Shot			R12
40 HMX charges, 6 PURE punchers used in total			R13
Schlumberger crew:			R15
Days: Brendan Glover and Sean McGee			R16
Nights: Dave Stuckey and Simon Kiss			R17

<b>Frame Summary</b> File: <b>PERFO_061LUP</b> Sequence: <b>6</b>						
<b>Origin: 121</b>						
<u>Index Type</u>	<u>Start</u>	<u>Stop</u>	<u>Spacing</u>	<u>Channels</u>	<u>Index Channel</u>	<u>Frame Name</u>
BOREHOLE-DEPTH	2075.23	2000.40 m	-60.0 (0.1 in) up	9	TDEP	60B
	6808.50	6563.00 ft				
BOREHOLE-DEPTH	2075.23	2000.43 m	-10.0 (0.1 in) up	8	TDEP;1	10B
	6808.50	6563.08 ft				

File Header		File: PERFO_076LUP	Sequence: 7
Defining Origin: 85			
File ID: PERFO_076LUP   File Type: DEPTH LOG			
Producer Name: Schlumberger		Product/Version: OP 14C0-302	File Set: 41   File Number: 86   5-MAY-2006 14:22:16
Company Name:	Esso Australia Pty. Ltd.		
Well Name:	TNA_A13		
Field Name:	Tuna		
Tool String:	SHM_GUN, PGGT-CC		
Computations:	WELLCAD		

<b>Error Summary</b> File: <b>PERFO_076LUP</b> Sequence: <b>7</b>		
No errors detected in file.		

<b>Well Site Data</b> File: <b>PERFO_076LUP</b> Sequence: <b>7</b>		
<b>Origin: 85</b>		
<b>Well Data</b>		
Company Name	Esso Australia Pty. Ltd.	CN
Well Name	TNA_A13	WN

Field Name	Tuna		FN
Rig:	Rig 22 / Prod 2		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	3278		SON
Longitude	148°25' 05.29"E		LONG
Latitude	38°10' 16.00"S		LATI
Maximum Hole Deviation	27.0 (deg)		MHD
Elevation of Kelly Bushing	32.9 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	34.2 (m)		EDF
Permanent Datum	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Kelly Bushing	Above Permanent Datum 32.9 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN

Job Data

Date as Month–Day–Year	5–May–2006		DATE
Run Number	1		RUN
Current Casing Size	4.50 (in)		CSIZ
Casing Depth From	1432.0 (m)		CDF
Casing Depth To	2104.5 (m)		CADT
Casing Grade	L–80		CASG
Casing Weight	12.6 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Bit Size Depth From	1666.6 (m)		BSDF
Bit Size Depth To	2272.2 (m)		BSDT
Date Logger At Bottom	5–May–2006	Time Logger At Bottom 14:30	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location AUSL	LUN, LUL
Engineer's Name	Graham Fraser, Omar Tahmiscic		ENGI
Witness's Name	Jimmy Dean, John Booker		WITN
Service Order Number	3278		SON

Absent Valued Parameters: TDD, TDL, BLI, TLI

Mud Data

Drilling Fluid Type	Sea Water		DFT
Drilling Fluid Density	1.10 (g/cm3)		DFD
Date Logger At Bottom	5–May–2006	Time Logger At Bottom 14:30	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary		CJT
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Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log objectives: Perforate well from 2071.0m to 2074.5m MDKB	R1
with 2–7/8" PURE HSD Gun	R2
Correlated to "TUNA A13 Correlation Log"	R3
Gun used: 2–7/8" PURE HSD [2906 PJ Omega HMX Charges,	R5
4.9 spf, 60 deg]	R6
API RP 19B Data: Penetration = 36.0 in; Ent Hole = 0.34 in.	R7
CCL to Top Shot = 3.15m	R9
CCL Stop Depth = 2067.85m MDKB	R10
Actual Top Shot = 2071.0m MDKB	R11
PURE design allowed only 3.41 m from Top to Bottom Shot	R12
40 HMX charges, 6 PURE punchers used in total	R13
Schlumberger crew:	R15
Days: Brendan Glover and Sean McGee	R16
Nights: Dave Stuckey and Simon Kiss	R17

Frame Summary      File: PERFO\_076LUP      Sequence: 7

Origin: 85

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE–DEPTH	2075.08	2005.28 m	−60.0 (0.1 in) up	9	TDEP	60B
	6808.00	6579.00 ft				
BOREHOLE–DEPTH	2075.08	2005.30 m	−10.0 (0.1 in) up	8	TDEP;1	10B
	6808.00	6579.08 ft				

