

**Input Source:** D:\OP\_Folder\Clients\Eso2008\_OP16\TNA\_A-1A\_LONG\PFCS\COMP\_TNA\_A1A\_LONG\_072.DLIS  
**Format:** DLIS  
**Storage Set ID:** Default Storage Set

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

**File Header** File: **FCS\_ILS\_PSP\_018PUP** Sequence: **1**

**Defining Origin: 53**

File ID: FCS\_ILS\_PSP\_018PUP File Type: PLAYBACK

Producer Name: Schlumberger

Product/Version: OP 16C0-147

File Set: 41

File Number: 17

24-NOV-2008 18:47:07

Company Name: Esso Australia Pty Ltd.

Well Name: A-1a Long

Field Name: Tuna

Tool String: PFCS-A, PILS-A, PSPT-I

Computations: WELLCAD, BORDYN, PLQL

**Error Summary** File: **FCS\_ILS\_PSP\_018PUP** Sequence: **1**

No errors detected in file.

**Well Site Data** File: **FCS\_ILS\_PSP\_018PUP** Sequence: **1**

**Origin: 53**

**Well Data**

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1a Long	WN
Field Name	Tuna	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AUSL08356996	SON
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	91.4 (m)	EGL
Elevation of Derrick Floor	32.9 (m)	EDF
Permanent Datum	M.S.L	PDAT, EPD
Log Measured From	K.B	LMF, APD
Drilling Measured From	K.B	DMF

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

**Job Data**

Date as Month-Day-Year	24-Nov-2008	DATE
Run Number	1	RUN
Total Depth - Driller	2978.0 (m)	TDD
Total Depth - Logger	2978.0 (m)	TDL
Bottom Log Interval	2794.0 (m)	BLI
Top Log Interval	1910.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.0 (m)	CDF
Casing Depth To	3242.0 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	2037.0 (m)	BSDF
Bit Size Depth To	3217.0 (m)	BSDT
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert	ENGI
Witness's Name	B White	WITN
Service Order Number	AUSL08356996	SON

**Mud Data**

<b>Mud Data</b>		Production Fluids		DFT
Drilling Fluid Type		217.0 (degF)		MRT
Maximum Recorded Temperature		217.0 (degF)		MRT1
Date Logger At Bottom	24-Nov-2008	Time Logger At Bottom	17:52	DLAB, TLAB
Absent Valued Parameters: DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, 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 correlated to ExxonMobil Solar Composite Log supplied with logging program.				R1
Objectives:Conduct Flowing Pressure/Temperature/Inline and Full bore Spinner Survey to diagnose a				R2
possible Leaking Tubing or Plug .				R3
Maximum Deviation = 59 deg @ 1878m MDKB				R4
Schlumberger crews: J Annear , G Blandford				R17
<b>Other Services</b>				
None				OS1

Frame Summary		File: FCS_ILS_PSP_018PUP	Sequence: 1			
Origin: 53						
<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	2982.01	1888.54 m	-60.0 (0.1 in) up	58	TDEP	60B
	9783.50	6196.00 ft				
BOREHOLE-DEPTH	2982.01	1888.57 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	9783.50	6196.08 ft				

File Header		File: PERFO_028PUP	Sequence: 2	
Defining Origin: 26				
File ID: PERFO_028PUP		File Type: PLAYBACK		
Producer Name: Schlumberger		Product/Version: OP 16C0-147	File Set: 41	File Number: 27
		25-NOV-2008 14:22:21		
Company Name:		Esso Australia Pty Ltd.		
Well Name:		A-1a Long		
Field Name:		Tuna		
Tool String:		SHM_GUN, CCL-L		
Computations:		WELLCAD		

<b>Error Summary</b>		File: PERFO_028PUP	Sequence: 2
No errors detected in file.			

<b>Well Site Data</b>		File: PERFO_028PUP	Sequence: 2
<b>Origin: 26</b>			
<b>Well Data</b>			
Company Name	Esso Australia Pty Ltd.		CN
Well Name	A-1a Long		WN
Field Name	Tuna		FN
Rig:	Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	AUSL08356996		SON
Longitude	148° 25' 05.29"E		LONG
Latitude	38° 10' 16.00"S		LATI



File Header		File: PERFO_054LUP	Sequence: 3
Defining Origin: 61			
File ID: PERFO_054LUP File Type: DEPTH LOG			
Producer Name: Schlumberger		Product/Version: OP 16C0-147	File Set: 41
		File Number: 53	27-NOV-2008 14:24:59
Company Name:	Esso Australia Pty Ltd.		
Well Name:	A-1a Long		
Field Name:	Tuna		
Tool String:	SHM_GUN, CCL-L		
Computations:	WELLCAD		

Error Summary	File: PERFO_054LUP	Sequence: 3
No errors detected in file.		

Well Site Data	File: PERFO_054LUP	Sequence: 3
Origin: 61		
Well Data		
Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1a Long	WN
Field Name	Tuna	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AUSL08356999	SON
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	91.4 (m)	EGL
Elevation of Derrick Floor	32.9 (m)	EDF
Permanent Datum	M.S.L	PDAT, EPD
Log Measured From	K.B	LMF, APD
Drilling Measured From	K.B	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	24-Nov-2008	DATE
Run Number	1 through 4	RUN
Total Depth - Driller	2978.0 (m)	TDD
Total Depth - Logger	2978.0 (m)	TDL
Bottom Log Interval	2794.0 (m)	BLI
Top Log Interval	1910.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.0 (m)	CDF
Casing Depth To	3242.0 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	2037.0 (m)	BSDF
Bit Size Depth To	3217.0 (m)	BSDT
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert	ENGI
Witness's Name	B White , G Rimmer	WITN
Service Order Number	AUSL08356999	SON
Time Logger At Bottom 17:52		
Logging Unit Location Prod 4 / AUSL		
Mud Data		
Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	195.0 (degF)	MRT
	195.0 (degF)	MRT1
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
Time Logger At Bottom 17:52		
Absent Valued Parameters: DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT2, MRT3, DCS, TCS		

PVT Data	Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR	
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Cement Data		
Cement Job Type	Primary	CJT

Remarks

Log correlated to ExxonMobil Solar Composite Log supplied with logging program.	R1
Objectives:Conduct Flowing Pressure/Temperature/Inline and Full bore Spinner Survey to diagnose a	R2
possible Leaking Tubing or Plug .	R3
Maximum Deviation = 59 deg @ 1878m MDKB	R4
Hole Detected in Tubing at 2411m to 2412m MDKB	R5
Run 30ft 2.72" Drift to ensure access for Tubing Patch .	R6
Could not make depth with 30ft patch , hanging up around the Packer @ 1924m MDKB .	R7
Set 20ft Tubing Patch over the interval 2408.2 m to 2414.8 m MDKB	R9
Tubing Patch Length Seal to Seal = 6.6 m	R10
Top of Patch @ 2408.2 m MDKB	R11
CCL to Top of Patch Seal = 3.85 m	R12
CCL Stop Depth = 2404.35m MDKB	R13
Spinner Survey Ran After Tubing Patch to confirm integrity .	R14
Schlumberger crews: J Annear , G Blandford	R17

Other Services

None	OS1
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Frame Summary      File: PERFO\_054LUP      Sequence: 3

Origin: 61						
<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	2451.35	2367.53 m	-60.0 (0.1 in) up	7	TDEP	60B
	8042.50	7767.50 ft				
BOREHOLE-DEPTH	2451.35	2367.56 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	8042.50	7767.58 ft				

File Header      File: FCS\_ILS\_PSP\_061LTP      Sequence: 4

Defining Origin: 55						
File ID: FCS_ILS_PSP_061LTP    File Type: STATION						
Producer Name: Schlumberger      Product/Version: OP 16C0-147      File Set: 41      File Number: 60      27-NOV-2008 17:25:08						
Company Name:	Esso Australia Pty Ltd.					
Well Name:	A-1a Long					
Field Name:	Tuna					
Tool String:	PFCS-A, PILS-A, PSPT-I					
Computations:	WELLCAD, BORDYN, PLQL, SPRI					

Error Summary      File: FCS\_ILS\_PSP\_061LTP      Sequence: 4

No errors detected in file.
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Well Site Data      File: FCS\_ILS\_PSP\_061LTP      Sequence: 4

Origin: 55			
Well Data			
Company Name	Esso Australia Pty Ltd.		CN
Well Name	A-1a Long		WN
Field Name	Tuna		FN
Rig:	Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	AUSL08356999		SON
Longitude	148° 25' 05.29"E		LONG

Latitude	38° 10' 16.00"S		LATI
Maximum Hole Deviation	59.0 (deg)		MHD
Elevation of Kelly Bushing	32.9 (m)		EKB
Elevation of Ground Level	91.4 (m)		EGL
Elevation of Derrick Floor	32.9 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum	0.0 (m)
Log Measured From	K.B	Above Permanent Datum	32.9 (m)
Drilling Measured From	K.B		

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

Job Data

Date as Month-Day-Year	24-Nov-2008			DATE
Run Number	1 through 4			RUN
Total Depth – Driller	2978.0 (m)			TDD
Total Depth – Logger	2978.0 (m)			TDL
Bottom Log Interval	2794.0 (m)			BLI
Top Log Interval	1910.0 (m)			TLI
Current Casing Size	7.00 (in)			CSIZ
Casing Depth From	1936.0 (m)			CDF
Casing Depth To	3242.0 (m)			CADT
Casing Grade	K-55			CASG
Casing Weight	23.0 (lbm/ft)			CWEI
Bit Size	8.50 (in)			BS
Bit Size Depth From	2037.0 (m)			BSDF
Bit Size Depth To	3217.0 (m)			BSDT
Date Logger At Bottom	24-Nov-2008	Time Logger At Bottom	17:52	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	Prod 4 / AUSL	LUN, LUL
Engineer's Name	S Gilbert			ENGI
Witness's Name	B White , G Rimmer			WITN
Service Order Number	AUSL08356999			SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	195.0 (degF)			MRT
	195.0 (degF)			MRT1
Date Logger At Bottom	24-Nov-2008	Time Logger At Bottom	17:52	DLAB, TLAB

Absent Valued Parameters: DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, 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 correlated to ExxonMobil Solar Composite Log supplied with logging program.	R1
Objectives:Conduct Flowing Pressure/Temperature/Inline and Full bore Spinner Survey to diagnose a	R2
possible Leaking Tubing or Plug .	R3
Maximum Deviation = 59 deg @ 1878m MDKB	R4
Hole Detected in Tubing at 2411m to 2412m MDKB	R5
Run 30ft 2.72" Drift to ensure access for Tubing Patch .	R6
Could not make depth with 30ft patch , hanging up around the Packer @ 1924m MDKB .	R7
Set 20ft Tubing Patch over the interval 2408.2 m to 2414.8 m MDKB	R9
Tubing Patch Length Seal to Seal = 6.6 m	R10
Top of Patch @ 2408.2 m MDKB	R11
CCL to Top of Patch Seal = 3.85 m	R12
CCL Stop Depth = 2404.35m MDKB	R13
Spinner Survey Ran After Tubing Patch to confirm integrity .	R14
Schlumberger crews: J Annear , G Blandford	R17

Other Services

None	OS1
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<div>Frame Summary</div> <div> <div>File: FCS_ILS_PSP_061LTP</div> <div>Sequence: 4</div> </div>	
<div>Origin: 55</div> <div> <div> <div>Index Type</div> <div>TIME</div> </div> <div> <div>Start</div> <div>4451.98</div> </div> <div> <div>Stop</div> <div>6382.98 s</div> </div> <div> <div>Spacing</div> <div>2000.0 (0.5 ms)</div> </div> <div> <div>Channels</div> <div>47</div> </div> <div> <div>Index Channel</div> <div>TIME;4</div> </div> <div> <div>Frame Name</div> <div>2000T</div> </div> </div>	

<div>File Header</div> <div> <div>File: FCS_ILS_PSP_062LUP</div> <div>Sequence: 5</div> </div>	
<div>Defining Origin: 55</div> <div>File ID: FCS_ILS_PSP_062LUP, File Type: DEPTH LOG</div>	

Company Name: Esso Australia Pty Ltd.  
Well Name: A-1a Long  
Field Name: Tuna  
Tool String: PFCS-A, PILS-A, PSPT-I  
Computations: WELLCAD, BORDYN, PLQL, SPRI

## Error Summary

File: FCS\_ILS\_PSP\_062LUP

Sequence: 5

No errors detected in file.

## Well Site Data

File: FCS\_ILS\_PSP\_062LUP

Sequence: 5

### Origin: 55

#### Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1a Long	WN
Field Name	Tuna	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AUSL08356999	SON
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	91.4 (m)	EGL
Elevation of Derrick Floor	32.9 (m)	EDF
Permanent Datum	M.S.L	PDAT, EPD
Log Measured From	K.B	LMF, APD
Drilling Measured From	K.B	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	24-Nov-2008	DATE
Run Number	1 through 4	RUN
Total Depth - Driller	2978.0 (m)	TDD
Total Depth - Logger	2978.0 (m)	TDL
Bottom Log Interval	2794.0 (m)	BLI
Top Log Interval	1910.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.0 (m)	CDF
Casing Depth To	3242.0 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	2037.0 (m)	BSDF
Bit Size Depth To	3217.0 (m)	BSDT
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert	ENGI
Witness's Name	B White, G Rimmer	WITN
Service Order Number	AUSL08356999	SON
	Time Logger At Bottom	17:52
	Logging Unit Location	Prod 4 / AUSL

#### Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	195.0 (degF)	MRT
	195.0 (degF)	MRT1
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
	Time Logger At Bottom	17:52

Date Logger At Bottom		24-NOV-2008	Time Logger At Bottom		17:52	DLAB, TLAB	
Absent Valued Parameters: DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, 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	
Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA							
Remarks							
Log correlated to ExxonMobil Solar Composite Log supplied with logging program.					R1		
Objectives:Conduct Flowing Pressure/Temperature/Inline and Full bore Spinner Survey to diagnose a					R2		
possible Leaking Tubing or Plug .					R3		
Maximum Deviation = 59 deg @ 1878m MDKB					R4		
Hole Detected in Tubing at 2411m to 2412m MDKB					R5		
Run 30ft 2.72" Drift to ensure access for Tubing Patch .					R6		
Could not make depth with 30ft patch , hanging up around the Packer @ 1924m MDKB .					R7		
Set 20ft Tubing Patch over the interval 2408.2 m to 2414.8 m MDKB					R9		
Tubing Patch Length Seal to Seal = 6.6 m					R10		
Top of Patch @ 2408.2 m MDKB					R11		
CCL to Top of Patch Seal = 3.85 m					R12		
CCL Stop Depth = 2404.35m MDKB					R13		
Spinner Survey Ran After Tubing Patch to confirm integrity .					R14		
Schlumberger crews: J Annear , G Blandford					R17		
Other Services							
None					OS1		

Frame Summary		File: FCS_ILS_PSP_062LUP		Sequence: 5		
Origin: 55						
Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2469.95	2368.30 m	-60.0 (0.1 in) up	58	TDEP	60B
	8103.50	7770.00 ft				
BOREHOLE-DEPTH	2469.95	2368.32 m	-10.0 (0.1 in) up	7	TDEP,1	10B
	8103.50	7770.08 ft				

<b>File Header</b>		File: <b>FCS_ILS_PSP_063LTP</b>	Sequence: <b>6</b>		
<b>Defining Origin: 55</b>					
File ID: FCS_ILS_PSP_063LTP    File Type: STATION					
Producer Name: Schlumberger		Product/Version: OP 16C0-147	File Set: 41	File Number: 62	27-NOV-2008 18:09:37
Company Name:	Esso Australia Pty Ltd.				
Well Name:	A-1a Long				
Field Name:	Tuna				
Tool String:	PFCS-A, PILS-A, PSPT-I				
Computations:	WELLCAD, BORDYN, PLQL, SPRI				

<b>Error Summary</b>	File: <b>FCS_ILS_PSP_063LTP</b>	Sequence: <b>6</b>
No errors detected in file.		

Well Site Data		File: FCS_ILS_PSP_063LTP	Sequence: 6
Origin: 55			
Well Data			
Company Name	Esso Australia Pty Ltd.		CN
Well Name	A-1a Long		WN
Field Name	Tuna		FN
Rig:	Crane	CLAB, COUN	
State:	Victoria	SLAB, STAT	
Nation	Australia	NATI	
Field Location	Gippsland	FL	
	Basin	FL1	
	Bass Strait	FL2	
	Service Order Number	AUSL08356999	SON
Longitude	148° 25' 05.29"E	LONG	
Latitude	38° 10' 16.00"S	LATI	
Maximum Hole Deviation	59.0 (deg)	MHD	



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

## Job Data

Date as Month-Day-Year	24-Nov-2008		DATE
Run Number	1 through 4		RUN
Total Depth – Driller	2978.0 (m)		TDD
Total Depth – Logger	2978.0 (m)		TDL
Bottom Log Interval	2794.0 (m)		BLI
Top Log Interval	1910.0 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	1936.0 (m)		CDF
Casing Depth To	3242.0 (m)		CADT
Casing Grade	K-55		CASG
Casing Weight	23.0 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Bit Size Depth From	2037.0 (m)		BSDF
Bit Size Depth To	3217.0 (m)		BSDT
Date Logger At Bottom	24-Nov-2008	Time Logger At Bottom 17:52	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod 4 / AUSL	LUN, LUL
Engineer's Name	S Gilbert		ENGI
Witness's Name	B White , G Rimmer		WITN
Service Order Number	AUSL08356999		SON

## Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	195.0 (degF)	MRT
	195.0 (degF)	MRT1
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
	Time Logger At Bottom	17:52

Absent Valued Parameters: DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, 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 correlated to ExxonMobil Solar Composite Log supplied with logging program.	R1
Objectives:Conduct Flowing Pressure/Temperature/Inline and Full bore Spinner Survey to diagnose a possible Leaking Tubing or Plug .	R2
Maximum Deviation = 59 deg @ 1878m MDKB	R3
Hole Detected in Tubing at 2411m to 2412m MDKB	R4
Run 30ft 2.72" Drift to ensure access for Tubing Patch .	R5
Could not make depth with 30ft patch , hanging up around the Packer @ 1924m MDKB .	R6
Set 20ft Tubing Patch over the interval 2408.2 m to 2414.8 m MDKB	R7
Tubing Patch Length Seal to Seal = 6.6 m	R9
Top of Patch @ 2408.2 m MDKB	R10
CCL to Top of Patch Seal = 3.85 m	R11
CCL Stop Depth = 2404.35m MDKB	R12
Spinner Survey Ran After Tubing Patch to confirm integrity .	R13
Schlumberger crews: J Annear , G Blandford	R14
	R17

## Other Services

None OS1

## Frame Summary

File: **FCS\_ILS\_PSP\_063LTP** Sequence: **6**

**Origin: 55**

<u>Index Type</u>	<u>Start</u>	<u>Stop</u>	<u>Spacing</u>	<u>Channels</u>	<u>Index Channel</u>	<u>Frame Name</u>
TIME	6888.41	7646.41 s	2000.0 (0.5 ms)	47	TIME:4	2000T

## File Header

File: FCS\_ILS\_PSP\_064LTP Sequence: 7

## Defining Origin: 55

File ID: FCS ILS PSP 064LTP File Type: STATION

Producer Name: Schlumberger

Product/Version: OP 16C0-147

File Set: 41

File Number: 63

27-NOV-2008 18:27:56

Company Name:	Esso Australia Pty Ltd.
Well Name:	A-1a Long
Field Name:	Tuna
Tool String:	PFCS-A, PILS-A, PSPT-I
Computations:	WELLCAD, BORDYN, PLQL, SPRI

<b>Error Summary</b>	File: <b>FCS_ILS_PSP_064LTP</b>	Sequence: <b>7</b>
No errors detected in file.		

<b>Well Site Data</b>	File: <b>FCS_ILS_PSP_064LTP</b>	Sequence: <b>7</b>
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### Origin: 55

#### Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1a Long	WN
Field Name	Tuna	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AUSL08356999	SON
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	91.4 (m)	EGL
Elevation of Derrick Floor	32.9 (m)	EDF
Permanent Datum	M.S.L	PDAT, EPD
Log Measured From	K.B	LMF, APD
Drilling Measured From	K.B	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	24-Nov-2008	DATE
Run Number	1 through 4	RUN
Total Depth - Driller	2978.0 (m)	TDD
Total Depth - Logger	2978.0 (m)	TDL
Bottom Log Interval	2794.0 (m)	BLI
Top Log Interval	1910.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.0 (m)	CDF
Casing Depth To	3242.0 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	2037.0 (m)	BSDF
Bit Size Depth To	3217.0 (m)	BSDT
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert	ENGI
Witness's Name	B White , G Rimmer	WITN
Service Order Number	AUSL08356999	SON
Time Logger At Bottom 17:52		
Logging Unit Location Prod 4 / AUSL		

#### Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	195.0 (degF)	MRT
	195.0 (degF)	MRT1
Date Logger At Bottom	24-Nov-2008	DLAB, TLAB
Time Logger At Bottom 17:52		

Absent Valued Parameters: DFD, DFV, DFL, DFPD, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, 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 correlated to ExxonMobil Solar Composite Log supplied with logging program.	R1
	R2

Objectives:Conduct Flowing Pressure/ Temperature/Inline and Full bore Spinner Survey to diagnose a possible Leaking Tubing or Plug .	R2
Maximum Deviation = 59 deg @ 1878m MDKB	R3
Hole Detected in Tubing at 2411m to 2412m MDKB	R4
Run 30ft 2.72" Drift to ensure access for Tubing Patch .	R5
Could not make depth with 30ft patch , hanging up around the Packer @ 1924m MDKB .	R6
Set 20ft Tubing Patch over the interval 2408.2 m to 2414.8 m MDKB	R7
Tubing Patch Length Seal to Seal = 6.6 m	R9
Top of Patch @ 2408.2 m MDKB	R10
CCL to Top of Patch Seal = 3.85 m	R11
CCL Stop Depth = 2404.35m MDKB	R12
Spinner Survey Ran After Tubing Patch to confirm integrity .	R13
Schlumberger crews: J Annear , G Blandford	R14
	R17
<b>Other Services</b>	
None	OS1

Frame Summary		File: FCS_ILS_PSP_064LTP	Sequence: 7
Origin: 55			
<div>Index Type</div> TIME	<div>Start</div> 8001.03	<div>Stop</div> 8428.03 s	<div>Spacing</div> 2000.0 (0.5 ms)
			<div>Channels</div> 47
			<div>Index Channel</div> TIME;4
			<div>Frame Name</div> 2000T

<b>File Header</b>	File: <b>FCS_ILS_PSP_065LTP</b>	Sequence: <b>8</b>
<b>Defining Origin: 55</b>		
File ID: FCS_ILS_PSP_065LTP	File Type: STATION	
Producer Name: Schlumberger	Product/Version: OP 16C0-147	File Set: 41
		File Number: 64
		27-NOV-2008 18:36:52
Company Name:	Esso Australia Pty Ltd.	
Well Name:	A-1a Long	
Field Name:	Tuna	
Tool String:	PFCS-A, PILS-A, PSPT-I	
Computations:	WELLCAD, BORDYN, PLQL, SPRI	

<b>Error Summary</b>	File: <b>FCS_ILS_PSP_065LTP</b>	Sequence: <b>8</b>
No errors detected in file.		

<b>Well Site Data</b>	File: <b>FCS_ILS_PSP_065LTP</b>	Sequence: <b>8</b>
<b>Origin: 55</b>		
<b>Well Data</b>		
Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1a Long	WN
Field Name	Tuna	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AUSL08356999	SON
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.0 (deg)	MHD
Elevation of Kelly Bushing	32.9 (m)	EKB
Elevation of Ground Level	91.4 (m)	EGL
Elevation of Derrick Floor	32.9 (m)	EDF
Permanent Datum	M.S.L	PDAT, EPD
Log Measured From	K.B	LMF, APD
Drilling Measured From	K.B	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	24-Nov-2008	DATE
Run Number	1 through 4	RUN
Total Depth - Driller	2978.0 (m)	TDD
Total Depth - Logger	2978.0 (m)	TDL
Bottom Log Interval	2794.0 (m)	BLI
Top Log Interval	1910.0 (m)	TLI

Top Log Interval	7.00 (in)			CSIZ
Current Casing Size	1936.0 (m)			CDF
Casing Depth From	3242.0 (m)			CADT
Casing Depth To	K-55			CASG
Casing Grade	23.0 (lbm/ft)			CWEI
Casing Weight	8.50 (in)			BS
Bit Size	2037.0 (m)			BSDF
Bit Size Depth From	3217.0 (m)			BSDT
Bit Size Depth To	24-Nov-2008	Time Logger At Bottom	17:52	DLAB, TLAB
Date Logger At Bottom	889	Logging Unit Location	Prod 4 / AUSL	LUN, LUL
Logging Unit Number	S Gilbert			ENGI
Engineer's Name	B White , G Rimmer			WITN
Witness's Name	AUSL08356999			SON
Service Order Number				

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	195.0 (degF)			MRT
	195.0 (degF)			MRT1
Date Logger At Bottom	24-Nov-2008	Time Logger At Bottom	17:52	DLAB, TLAB
Absent Valued Parameters: DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT2, MRT3, DCS, TCS				

PVT Data

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

Remarks

Log correlated to ExxonMobil Solar Composite Log supplied with logging program.	R1
Objectives:Conduct Flowing Pressure/Temperature/Inline and Full bore Spinner Survey to diagnose a possible Leaking Tubing or Plug .	R2
Maximum Deviation = 59 deg @ 1878m MDKB	R3
Hole Detected in Tubing at 2411m to 2412m MDKB	R4
Run 30ft 2.72" Drift to ensure access for Tubing Patch .	R5
Could not make depth with 30ft patch , hanging up around the Packer @ 1924m MDKB .	R6
Set 20ft Tubing Patch over the interval 2408.2 m to 2414.8 m MDKB	R7
Tubing Patch Length Seal to Seal = 6.6 m	R9
Top of Patch @ 2408.2 m MDKB	R10
CCL to Top of Patch Seal = 3.85 m	R11
CCL Stop Depth = 2404.35m MDKB	R12
Spinner Survey Ran After Tubing Patch to confirm integrity .	R13
Schlumberger crews: J Annear , G Blandford	R14
	R17

Other Services

None	OS1
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Frame Summary      File: FCS\_ILS\_PSP\_065LTP      Sequence: 8

Origin: 55

<u>Index Type</u>	<u>Start</u>	<u>Stop</u>	<u>Spacing</u>	<u>Channels</u>	<u>Index Channel</u>	<u>Frame Name</u>
TIME	8563.76	9179.76 s	2000.0 (0.5 ms)	47	TIME;4	2000T

File Header      File: FCS\_ILS\_PSP\_067LUP      Sequence: 9

Defining Origin: 55

File ID: FCS_ILS_PSP_067LUP	File Type: DEPTH LOG					
Producer Name: Schlumberger	Product/Version: OP 16C0-147	File Set: 41	File Number: 66	27-NOV-2008 18:53:08		
Company Name:	Esso Australia Pty Ltd.					
Well Name:	A-1a Long					
Field Name:	Tuna					
Tool String:	PFCS-A, PILS-A, PSPT-I					
Computations:	WELLCAD, BORDYN, PLQL, SPRI					

Error Summary      File: FCS\_ILS\_PSP\_067LUP      Sequence: 9

No errors detected in file.

Origin: 55

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A-1a Long		WN
Field Name	Tuna		FN
Rig:	Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	AUSL08356999		SON
Longitude	148° 25' 05.29"E		LONG
Latitude	38° 10' 16.00"S		LATI
Maximum Hole Deviation	59.0 (deg)		MHD
Elevation of Kelly Bushing	32.9 (m)		EKB
Elevation of Ground Level	91.4 (m)		EGL
Elevation of Derrick Floor	32.9 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum	0.0 (m) PDAT, EPD
Log Measured From	K.B	Above Permanent Datum	32.9 (m) LMF, APD
Drilling Measured From	K.B		DMF

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

Job Data

Date as Month-Day-Year	24-Nov-2008		DATE
Run Number	1 through 4		RUN
Total Depth – Driller	2978.0 (m)		TDD
Total Depth – Logger	2978.0 (m)		TDL
Bottom Log Interval	2794.0 (m)		BLI
Top Log Interval	1910.0 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	1936.0 (m)		CDF
Casing Depth To	3242.0 (m)		CADT
Casing Grade	K-55		CASG
Casing Weight	23.0 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Bit Size Depth From	2037.0 (m)		BSDF
Bit Size Depth To	3217.0 (m)		BSDT
Date Logger At Bottom	24-Nov-2008	Time Logger At Bottom	17:52 DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	Prod 4 / AUSL LUN, LUL
Engineer's Name	S Gilbert		ENGI
Witness's Name	B White , G Rimmer		WITN
Service Order Number	AUSL08356999		SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	195.0 (degF)		MRT
	195.0 (degF)		MRT1
Date Logger At Bottom	24-Nov-2008	Time Logger At Bottom	17:52 DLAB, TLAB

Absent Valued Parameters: DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, 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 correlated to ExxonMobil Solar Composite Log supplied with logging program.	R1
Objectives:Conduct Flowing Pressure/Temperature/Inline and Full bore Spinner Survey to diagnose a possible Leaking Tubing or Plug .	R2
Maximum Deviation = 59 deg @ 1878m MDKB	R3
Hole Detected in Tubing at 2411m to 2412m MDKB	R4
Run 30ft 2.72" Drift to ensure access for Tubing Patch .	R5
Could not make depth with 30ft patch , hanging up around the Packer @ 1924m MDKB .	R6
Set 20ft Tubing Patch over the interval 2408.2 m to 2414.8 m MDKB	R7
Tubing Patch Length Seal to Seal = 6.6 m	R9
Top of Patch @ 2408.2 m MDKB	R10
CCL to Top of Patch Seal = 3.85 m	R11
CCL Stop Depth = 2404.35m MDKB	R12
Spinner Survey Ran After Tubing Patch to confirm integrity .	R13
Schlumberger crew: J. Annon, C. Blanford	R14
	R17

**Other Services**

None

OS1

**Frame Summary**    File: **FCS\_ILS\_PSP\_067LUP**    Sequence: **9****Origin: 55**

<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	2504.69	1890.52 m	-60.0 (0.1 in) up	58	TDEP	60B
	8217.50	6202.50 ft				
BOREHOLE-DEPTH	2504.69	1890.55 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	8217.50	6202.58 ft				

**Verification Listing****Listing Completed:** 28-NOV-2008 9:13:54