

Input Source: D:\OP_Folder\Clients\Essso_2009\TNA_A1L\PFCS\COMP_PLT_COMP_130.DLIS
Format: DLIS
Storage Set ID: Default Storage Set

Max Record Length: 8192
Storage Unit Sequence: 1

File Header File: **FCS_ILS_DEFT_GMS_007PUP** Sequence: 1

Defining Origin: 66

File ID: FCS_ILS_DEFT_GMS_007PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0-154 File Set: 41 File Number: 4 18-DEC-2009 13:47:06
Company Name: Esso Australia Pty Ltd.
Well Name: A-1L
Field Name: Tuna
Tool String: PFCS-A, PILS-A, DEFT-C2, PGM-C-A/B, PSPT-A
Computations: WELLCAD, BORDYN

Error Summary File: **FCS_ILS_DEFT_GMS_007PUP** Sequence: 1

No errors detected in file.

Well Site Data File: **FCS_ILS_DEFT_GMS_007PUP** Sequence: 1

Origin: 66

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1L	WN
Field Name	Tuna	FN
Rig:	Prod 4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.5 (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, SON

Job Data

Date as Month-Day-Year	18-Dec-2009	DATE
Run Number	1	RUN
Total Depth - Driller	3244.0 (m)	TDD
Total Depth - Logger	2973.0 (m)	TDL
Bottom Log Interval	2973.0 (m)	BLI
Top Log Interval	1928.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.4 (m)	CDF
Casing Depth To	3224.6 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1942.5 (m)	BSDF
Bit Size Depth To	3244.0 (m)	BSDT
Date Logger At Bottom	18-Dec-2009	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	Owen Darby	ENGI
Witness's Name	David Madden	WITN

Time Logger At Bottom 11:00
Logging Unit Location Prod 4 / AUSL

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type

Maximum Recorded Temperature

Date Logger At Bottom

Production Fluids

229.0 (degF)

230.0 (degF)

18-Dec-2009

Time Logger At Bottom

11:00

DFT

MRT

MRT1

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.

Objective:

Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/Pressure/Temperature

Static:

Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB) @10m/min (1970ft/hr). Complete spinner calibration passes.

Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.

Flowing:

RIH to HUD and flow well to test separator, wait for well to stabilise.

Conduct two up passes and two down passes over interval 2880 – 2973m at varied speific speeds –

R1

R2

R3

R4

R5

R6

R7

R8

R9

R10

R11

R12

Other Services

2-1/8" PowerJet Perf

4-1/2" MPBT Plug

2-1/8" Dump bailers

Tubing patch

OS1

OS2

OS3

OS4

Frame Summary File: FCS_ILS_DEFT_GMS_007PUP Sequence: 1						
Origin: 66						
<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	2944.98	1927.71 m	-60.0 (0.1 in) up	95	TDEP	60B
	9662.00	6324.50 ft				
BOREHOLE-DEPTH	2944.98	1927.73 m	-10.0 (0.1 in) up	4	TDEP;1	10B
	9662.00	6324.58 ft				

File Header

File: FCS_ILS_DEFT_GMS_009PUP

Sequence: 2

Defining Origin: 66

File ID: FCS_ILS_DEFT_GMS_009PUP File Type: PLAYBACK

Producer Name: Schlumberger Product/Version: OP 17C0-154 File Set: 41 File Number: 6 18-DEC-2009 14:06:36

Company Name: Esso Australia Pty Ltd.

Well Name: A-1L

Field Name: Tuna

Tool String: PFCS-A, PILS-A, DEFT-C2, PGMC-A/B, PSPT-A

Computations: WELLCAD, BORDYN

Error Summary File: FCS_ILS_DEFT_GMS_009PUP Sequence: 2		
No errors detected in file.		

Well Site Data

File: FCS_ILS_DEFT_GMS_009PUP

Sequence: 2

Origin: 66

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1L	WN
Field Name	Tuna	FN
Rig:	Prod 4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.5 (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, SON

Job Data

Date as Month-Day-Year	18-Dec-2009	DATE
Run Number	1	RUN
Total Depth - Driller	3244.0 (m)	TDD
Total Depth - Logger	2973.0 (m)	TDL
Bottom Log Interval	2973.0 (m)	BLI
Top Log Interval	1928.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.4 (m)	CDF
Casing Depth To	3224.6 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1942.5 (m)	BSDF
Bit Size Depth To	3244.0 (m)	BSDT
Date Logger At Bottom	18-Dec-2009	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	Owen Darby	ENGI
Witness's Name	David Madden	WITN
	Time Logger At Bottom 11:00	
	Logging Unit Location Prod 4 / AUSL	

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	229.0 (degF)	MRT
	230.0 (degF)	MRT1
Date Logger At Bottom	18-Dec-2009	DLAB, TLAB
	Time Logger At Bottom 11:00	

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
Objective:	R2
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/	R3
Pressure/Temperature	R4
Static:	R5
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)	R6
@10m/min (1970ft/hr). Complete spinner calibration passes.	R7
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.	R8
Flowing:	R9
RIH to HUD and flow well to test separator, wait for well to stabilise.	R10
Conduct two up passes and two down passes over interval 2880 - 2973m at varied	R11
specific speeds -	R12

Other Services

2-1/8" PowerJet Perf	OS1
4-1/2" MPBT Plug	OS2
2-1/8" Dump bailers	OS3
Tubing patch	OS4

Frame Summary		File: FCS_ILS_DEFT_GMS_009PUP		Sequence: 2		
Origin: 66						
Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2977.13	2870.91 m	-60.0 (0.1 in) up	95	TDEP	60B
	9767.50	9419.00 ft				
BOREHOLE-DEPTH	2977.13	2870.94 m	-10.0 (0.1 in) up	4	TDEP;1	10B
	9767.50	9419.08 ft				

File Header		File: FCS_ILS_DEFT_GMS_030PUP		Sequence: 3	
Defining Origin: 35					
File ID: FCS_ILS_DEFT_GMS_030PUP File Type: PLAYBACK					
Producer Name: Schlumberger		Product/Version: OP 17C0-154		File Set: 41	
				File Number: 27	
				18-DEC-2009 17:00:07	
Company Name:		Esso Australia Pty Ltd.			
Well Name:		A-1L			
Field Name:		Tuna			
Tool String:		PFCS-A, PILS-A, DEFT-C2, PGM-C-A/B, PSPT-A			
Computations:		WELLCAD, BORDYN, PLQL			

File Header		File: FCS_ILS_DEFT_GMS_030PUP		Sequence: 3	
Defining Origin: 35					
File ID: FCS_ILS_DEFT_GMS_030PUP File Type: PLAYBACK					
Producer Name: Schlumberger		Product/Version: OP 17C0-154		File Set: 41	File Number: 27 18-DEC-2009 17:00:07
Company Name:	Esso Australia Pty Ltd.				
Well Name:	A-1L				
Field Name:	Tuna				
Tool String:	PFCS-A, PILS-A, DEFT-C2, PGMC-A/B, PSPT-A				
Computations:	WELLCAD, BORDYN, PLQL				

Error Summary	File: FCS_ILS_DEFT_GMS_030PUP	Sequence: 3
No errors detected in file.		

Well Site Data

File: FCS_ILS_DEFT_GMS_030PUP

Sequence: 3

Origin: 35

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1L	WN
Field Name	Tuna	FN
Rig:	Prod 4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.5 (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, SON

Job Data

Date as Month-Day-Year	18-Dec-2009	DATE
Run Number	1	RUN
Total Depth – Driller	3244.0 (m)	TDD
Total Depth – Logger	2973.0 (m)	TDL
Bottom Log Interval	2973.0 (m)	BLI
Top Log Interval	1928.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.4 (m)	CDF
Casing Depth To	3224.6 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1942.5 (m)	BSDF

Bit Size Depth To	3244.0 (m)	Time Logger At Bottom	11:00	BSDT
Date Logger At Bottom	18-Dec-2009	Logging Unit Location	Prod 4 / AUSL	DLAB, TLAB
Logging Unit Number	889			LUN, LUL
Engineer's Name	Owen Darby			ENGI
Witness's Name	David Madden			WITN
Absent Valued Parameters: SON				
Mud Data				
Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	229.0 (degF)			MRT
	230.0 (degF)			MRT1
Date Logger At Bottom	18-Dec-2009	Time Logger At Bottom	11:00	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
Objective:				R2
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/				R3
Pressure/Temperature				R4
Static:				R5
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)				R6
@10m/min (1970ft/hr). Complete spinner calibration passes.				R7
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.				R8
Flowing:				R9
RIH to HUD and flow well to test separator, wait for well to stabilise.				R10
Conduct two up passes and two down passes over interval 2880 – 2973m at varied				R11
speific speeds –				R12
Other Services				
2–1/8" PowerJet Perf				OS1
4–1/2" MPBT Plug				OS2
2–1/8" Dump bailers				OS3
Tubing patch				OS4

Frame Summary File: FCS_ILS_DEFT_GMS_030PUP Sequence: 3						
Origin: 35						
<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	2977.90	1927.86 m	–60.0 (0.1 in) up	95	TDEP	60B
	9770.00	6325.00 ft				
BOREHOLE-DEPTH	2977.90	1927.89 m	–10.0 (0.1 in) up	7	TDEP;1	10B
	9770.00	6325.08 ft				

File Header		File: FCS_ILS_DEFT_GMS_035PUP	Sequence: 4		
Defining Origin: 12					
File ID: FCS_ILS_DEFT_GMS_035PUP File Type: PLAYBACK					
Producer Name: Schlumberger		Product/Version: OP 17C0-154	File Set: 41	File Number: 32	20-DEC-2009 15:13:01
Company Name:	Esso Australia Pty Ltd.				
Well Name:	A-1L				
Field Name:	Tuna				
Tool String:	PFCS-A, PILS-A, DEFT-C2, PGMC-A/B, PSPT-A				
Computations:	WELLCAD, BORDYN, PLQL				

Error Summary File: FCS_ILS_DEFT_GMS_035PUP Sequence: 4						
No errors detected in file.						

Well Site Data File: FCS_ILS_DEFT_GMS_035PUP Sequence: 4						
Origin: 12						
Well Data						
Company Name	Esso Australia Pty Ltd.					
Well Name	A–1L					
Field Name	Tuna					
Tool String	PFCS–A, PILS–A, DEFT–C2, PGMC–A/B, PSPT–A					
Computations	WELLCAD, BORDYN, PLQL					

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1L	WN
Field Name	Tuna	FN
Rig:	Prod 4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.5 (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, SON

Job Data

Date as Month–Day–Year	18–Dec–2009	DATE
Run Number	1	RUN
Total Depth – Driller	3244.0 (m)	TDD
Total Depth – Logger	2973.0 (m)	TDL
Bottom Log Interval	2973.0 (m)	BLI
Top Log Interval	1928.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.4 (m)	CDF
Casing Depth To	3224.6 (m)	CADT
Casing Grade	K–55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1942.5 (m)	BSDF
Bit Size Depth To	3244.0 (m)	BSDT
Date Logger At Bottom	18–Dec–2009	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	Owen Darby	ENGI
Witness's Name	David Madden	WITN
	Time Logger At Bottom	11:00
	Logging Unit Location	Prod 4 / AUSL

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	229.0 (degF)	MRT
	230.0 (degF)	MRT1
Date Logger At Bottom	18–Dec–2009	DLAB, TLAB
	Time Logger At Bottom	11:00

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
Objective:	R2
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL–Spinner/FB–Spinner/	R3
Pressure/Temperature	R4
Static:	R5
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)	R6
@10m/min (1970ft/hr). Complete spinner calibration passes.	R7
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.	R8
Flowing:	R9
RIH to HUD and flow well to test separator, wait for well to stabilise.	R10
Conduct two up passes and two down passes over interval 2880 – 2973m at varied	R11
speific speeds –	R12

Other Services

2–1/8" PowerJet Perf	OS1
4–1/2" MPBT Plug	OS2
2–1/8" Dump bailers	OS3
Tubing patch	OS4

Name Summary File: FCS_ILS_DEFT_GMS_127PUP Sequence: 4						
Origin: 12						
Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2975.46	2879.90 m	-60.0 (0.1 in) up	95	TDEP	60B
	9762.00	9448.50 ft				
BOREHOLE-DEPTH	2975.46	2879.93 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	9762.00	9448.58 ft				

File Header	File: FCS_ILS_DEFT_GMS_127PUP	Sequence: 5
Defining Origin: 97		
File ID: FCS_ILS_DEFT_GMS_127PUP File Type: PLAYBACK		
Producer Name: Schlumberger	Product/Version: OP 17C0-154	File Set: 41 File Number: 4 21-DEC-2009 17:45:24
Company Name:	Esso Australia Pty Ltd.	
Well Name:	A-1L	
Field Name:	Tuna	
Tool String:	PFCS-A, PILS-A, DEFT-C2, PGMC-A/B, PSPT-A	
Computations:	WELLCAD, BORDYN	

Error Summary	File: FCS_ILS_DEFT_GMS_127PUP	Sequence: 5
No errors detected in file.		

Well Site Data	File: FCS_ILS_DEFT_GMS_127PUP	Sequence: 5
Origin: 97		
Well Data		
Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1L	WN
Field Name	Tuna	FN
Rig:	Prod 4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.5 (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, SON

Job Data		
Date as Month-Day-Year	18-Dec-2009	DATE
Run Number	1	RUN
Total Depth - Driller	3244.0 (m)	TDD
Total Depth - Logger	2973.0 (m)	TDL
Bottom Log Interval	2973.0 (m)	BLI
Top Log Interval	1928.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.4 (m)	CDF
Casing Depth To	3224.6 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS

Bit Size Depth From	1942.5 (m)			BSDF
Bit Size Depth To	3244.0 (m)			BSDT
Date Logger At Bottom	18-Dec-2009	Time Logger At Bottom	11:00	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	Prod 4 / AUSL	LUN, LUL
Engineer's Name	Owen Darby			ENGI
Witness's Name	David Madden			WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	211.0 (degF)		MRT
	211.0 (degF)		MRT1
Date Logger At Bottom	18-Dec-2009	Time Logger At Bottom	11:00
			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
Objective:	R2
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/	R3
Pressure/Temperature	R4
Static:	R5
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)	R6
@10m/min (1970ft/hr). Complete spinner calibration passes.	R7
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.	R8
Flowing:	R9
RIH to HUD and flow well to test separator, wait for well to stabilise.	R10
Conduct two up passes one up @ 5m/min (980ft/hr) over interval 2880 – 2973m	R11
one @ 10m/min (1970ft/hr). Complete two down passes over same interval @	R12
10m/min (1970ft/hr) & 20m/min (3940ft/hr). Stop flowing well and pull up to	R13
inside tubing @ 2520m MDKB.	R14
Conduct an up pass @ 5m/min (980ft/hr) and one down pass @ 10m/min (1970ft/hr)	R15
Crew:	R16
Nathan Simmons & Peter Lawrence	R17

Frame Summary	File: FCS_ILS_DEFT_GMS_127PUP	Sequence: 5
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Origin: 97						
Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2975.15	2865.12 m	-60.0 (0.1 in) up	95	TDEP	60B
	9761.00	9400.00 ft				
BOREHOLE-DEPTH	2975.15	2865.15 m	-10.0 (0.1 in) up	4	TDEP;1	10B
	9761.00	9400.08 ft				

File Header	File: FCS_ILS_DEFT_GMS_129PUP	Sequence: 6
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Defining Origin: 97						
File ID: FCS_ILS_DEFT_GMS_129PUP	File Type: PLAYBACK					
Producer Name: Schlumberger	Product/Version: OP 17C0-154	File Set: 41	File Number: 6	21-DEC-2009 17:57:53		
Company Name:	Esso Australia Pty Ltd.					
Well Name:	A-1L					
Field Name:	Tuna					
Tool String:	PFCS-A, PILS-A, DEFT-C2, PGMC-A/B, PSPT-A					
Computations:	WELLCAD, BORDYN					

Error Summary	File: FCS_ILS_DEFT_GMS_129PUP	Sequence: 6
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Well Site DataFile: **FCS_ILS_DEFT_GMS_129PUP**Sequence: **6****Origin: 97****Well Data**

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-1L	WN
Field Name	Tuna	FN
Rig:	Prod 4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148° 25' 05.29"E	LONG
Latitude	38° 10' 16.00"S	LATI
Maximum Hole Deviation	59.5 (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, SON

Job Data

Date as Month-Day-Year	18-Dec-2009	DATE
Run Number	1	RUN
Total Depth - Driller	3244.0 (m)	TDD
Total Depth - Logger	2973.0 (m)	TDL
Bottom Log Interval	2973.0 (m)	BLI
Top Log Interval	1928.0 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	1936.4 (m)	CDF
Casing Depth To	3224.6 (m)	CADT
Casing Grade	K-55	CASG
Casing Weight	23.0 (lbm/ft)	CWEI
Bit Size	8.50 (in)	BS
Bit Size Depth From	1942.5 (m)	BSDF
Bit Size Depth To	3244.0 (m)	BSDT
Date Logger At Bottom	18-Dec-2009	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	Owen Darby	ENGI
Witness's Name	David Madden	WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	211.0 (degF)	MRT
	211.0 (degF)	MRT1
Date Logger At Bottom	18-Dec-2009	DLAB, TLAB
	Time Logger At Bottom 11:00	

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
Objective:	R2
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/	R3
Pressure/Temperature	R4
Static:	R5
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)	R6
@10m/min (1970ft/hr). Complete spinner calibration passes.	R7
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.	R8
Flowing:	R9
RIH to HUD and flow well to test separator, wait for well to stabilise.	R10
Conduct two up passes one up @ 5m/min (980ft/hr) over interval 2880 - 2973m	R11
one @ 10m/min (1970ft/hr). Complete two down passes over same interval @	R12

10m/min (1970ft/hr) & 20m/min (3940ft/hr). Stop flowing well and pull up to	R13
inside tubing @ 2520m MDKB.	R14
Conduct an up pass @ 5m/min (980ft/hr) and one down pass @ 10m/min (1970ft/hr)	R15
Crew:	R16
Nathan Simmons & Peter Lawrence	R17

Frame Summary File: FCS_ILS_DEFT_GMS_129PUP Sequence: 6						
Origin: 97						
<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	2977.44	2868.17 m	-60.0 (0.1 in) up	95	TDEP	60B
	9768.50	9410.00 ft				
BOREHOLE-DEPTH	2977.44	2868.19 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	9768.50	9410.08 ft				

File Header		File: FCS_ILS_DEFT_GMS_045PUP		Sequence: 7	
Defining Origin: 12					
File ID: FCS_ILS_DEFT_GMS_045PUP File Type: PLAYBACK					
Producer Name: Schlumberger		Product/Version: OP 17C0-154		File Set: 41	File Number: 40 20-DEC-2009 15:38:41
Company Name: Esso Australia Pty Ltd.					
Well Name: A-1L					
Field Name: Tuna					
Tool String: PFCS-A, PILS-A, DEFT-C2, PGMCA-B, PSPT-A					
Computations: WELLCAD, BORDYN, PLQL					

Error Summary File: FCS_ILS_DEFT_GMS_045PUP Sequence: 7						
No errors detected in file.						

Well Site Data			File: FCS_ILS_DEFT_GMS_045PUP	Sequence: 7
Origin: 12				
Well Data				
Company Name	Esso Australia Pty Ltd.			CN
Well Name	A-1L			WN
Field Name	Tuna			FN
Rig:	Prod 4 / Crane			CLAB, COUN
State:	Victoria			SLAB, STAT
Nation	Australia			NATI
Field Location	Gippsland			FL
	Basin			FL1
	Bass Strait			FL2
	148° 25' 05.29"E			LONG
Longitude	38° 10' 16.00"S			LATI
Latitude	59.5 (deg)			MHD
Maximum Hole Deviation	32.9 (m)			EKB
Elevation of Kelly Bushing	91.4 (m)			EGL
Elevation of Ground Level	32.9 (m)			EDF
Elevation of Derrick Floor	M.S.L	Elevation of Permanent Datum	0.0 (m)	PDAT, EPD
Permanent Datum	K.B	Above Permanent Datum	32.9 (m)	LMF, APD
Log Measured From	K.B			DMF
Drilling Measured From				
Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON				
Job Data				
Date as Month-Day-Year	18-Dec-2009			DATE
Run Number	1			RUN
Total Depth - Driller	3244.0 (m)			TDD
Total Depth - Logger	2973.0 (m)			TDL
Bottom Log Interval	2973.0 (m)			BLI
Top Log Interval	1928.0 (m)			TLI
Current Casing Size	7.00 (in)			CSIZ
Casing Depth From	1936.4 (m)			CDF
Casing Depth To	3224.6 (m)			CADT
Casing Grade	K-55			CASG
Casing Weight	23.0 (lbm/ft)			CWEI
Bit Size	8.50 (in)			BS
Bit Size Depth From	1942.5 (m)			BSDF
Bit Size Depth To	3244.0 (m)			BSDT

Date Logger At Bottom
Logging Unit Number
Engineer's Name
Witness's Name

18-Dec-2009
889
Owen Darby
David Madden

Time Logger At Bottom
Logging Unit Location

11:00
Prod 4 / AUSL

DLAB, TLAB
LUN, LUL
ENGI
WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type
Maximum Recorded Temperature

Production Fluids
229.0 (degF)
230.0 (degF)

DFT
MRT
MRT1

Date Logger At Bottom

18-Dec-2009

Time Logger At Bottom

11:00

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.
Objective:
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/
Pressure/Temperature
Static:
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)
@10m/min (1970ft/hr). Complete spinner calibration passes.
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.
Flowing:
RIH to HUD and flow well to test separator, wait for well to stabilise.
Conduct two up passes and two down passes over interval 2880 – 2973m at varied
speific speeds –

R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12

Other Services

2-1/8" PowerJet Perf
4-1/2" MPBT Plug
2-1/8" Dump bailers
Tubing patch

OS1
OS2
OS3
OS4

Frame Summary						
File: FCS_ILS_DEFT_GMS_045PUP		Sequence: 7				
Origin: 12						
Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2975.00	2879.75 m	-60.0 (0.1 in) up	95	TDEP	60B
	9760.50	9448.00 ft				
BOREHOLE-DEPTH	2975.00	2879.78 m	-10.0 (0.1 in) up	4	TDEP;1	10B
	9760.50	9448.08 ft				

File Header

File: FCS_ILS_DEFT_GMS_054PUP

Sequence: 8

Defining Origin: 45

File ID: FCS_ILS_DEFT_GMS_054PUP

File Type: PLAYBACK

Producer Name: Schlumberger

Product/Version: OP 17C0-154

File Set: 41

File Number: 53

20-DEC-2009 18:28:36

Company Name: Esso Australia Pty Ltd.

Well Name: A-1L

Field Name: Tuna

Tool String: PFCS-A, PILS-A, DEFT-C2, PGMC-A/B, PSPT-A

Computations: WELLCAD, BORDYN

Error Summary

File: FCS_ILS_DEFT_GMS_054PUP

Sequence: 8

Origin: 45

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A-1L		WN
Field Name	Tuna		FN
Rig:	Prod 4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Longitude	148° 25' 05.29"E		LONG
Latitude	38° 10' 16.00"S		LATI
Maximum Hole Deviation	59.5 (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, SON

Job Data

Date as Month-Day-Year	18-Dec-2009		DATE
Run Number	1		RUN
Total Depth – Driller	3244.0 (m)		TDD
Total Depth – Logger	2973.0 (m)		TDL
Bottom Log Interval	2973.0 (m)		BLI
Top Log Interval	1928.0 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	1936.4 (m)		CDF
Casing Depth To	3224.6 (m)		CADT
Casing Grade	K-55		CASG
Casing Weight	23.0 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Bit Size Depth From	1942.5 (m)		BSDF
Bit Size Depth To	3244.0 (m)		BSDT
Date Logger At Bottom	18-Dec-2009	Time Logger At Bottom 11:00	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod 4 / AUSL	LUN, LUL
Engineer's Name	Owen Darby		ENGI
Witness's Name	David Madden		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	230.0 (degF)		MRT
	230.0 (degF)		MRT1
Date Logger At Bottom	18-Dec-2009	Time Logger At Bottom 11:00	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
Objective:	R2
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/	R3
Pressure/Temperature	R4
Static:	R5
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)	R6
@10m/min (1970ft/hr). Complete spinner calibration passes.	R7
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.	R8
Flowing:	R9
RIH to HUD and flow well to test separator, wait for well to stabilise.	R10
Conduct two up passes one up @ 5m/min (980ft/hr) over interval 2880 – 2973m	R11
one @ 10m/min (1078ft/hr). Complete two down passes over same interval @	R12

one @ 10m/min (1970ft/hr). Complete two down passes over same interval @ 10m/min (1970ft/hr) & 20m/min (3940ft/hr). Stop flowing well and pull up to inside tubing @ 2520m MDKB.	R12
Conduct an up pass @ 5m/min (980ft/hr) and one down pass @ 10m/min (1970ft/hr)	R13
Crew:	R14
Nathan Simmons & Peter Lawrence	R15
	R16
	R17
Other Services	
2–1/8" PowerJet Perf	OS1
4–1/2" MPBT Plug	OS2
2–1/8" Dump bailers	OS3
Tubing patch	OS4

Frame Summary		File: FCS_ILS_DEFT_GMS_054PUP	Sequence: 8			
Origin: 45						
<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	2533.04	1918.87 m	-60.0 (0.1 in) up	95	TDEP	60B
	8310.50	6295.50 ft				
BOREHOLE-DEPTH	2533.04	1918.89 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	8310.50	6295.58 ft				

File Header		File: FCS_ILS_DEFT_GMS_063PUP	Sequence: 9
Defining Origin: 45			
File ID: FCS_ILS_DEFT_GMS_063PUP		File Type: PLAYBACK	
Producer Name: Schlumberger		Product/Version: OP 17C0–154	
		File Set: 41	File Number: 61
			20–DEC–2009 19:05:39
Company Name:		Esso Australia Pty Ltd.	
Well Name:		A–1L	
Field Name:		Tuna	
Tool String:		PFCS–A, PILS–A, DEFT–C2, PGMC–A/B, PSPT–A	
Computations:		WELLCAD, BORDYN	

Error Summary		File: FCS_ILS_DEFT_GMS_063PUP	Sequence: 9
No errors detected in file.			

Well Site Data		File: FCS_ILS_DEFT_GMS_063PUP	Sequence: 9
Origin: 45			
Well Data			
Company Name	Esso Australia Pty Ltd.		CN
Well Name	A–1L		WN
Field Name	Tuna		FN
Rig:	Prod 4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Longitude	148° 25' 05.29"E		LONG
Latitude	38° 10' 16.00"S		LATI
Maximum Hole Deviation	59.5 (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		PDAT, EPD
			LMF, APD
			DMF
Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON			
Job Data			
Date as Month–Day–Year	18–Dec–2009		DATE
Run Number	1		RUN
Total Depth – Driller	3244.0 (m)		TDD
Total Depth – Logger	2973.0 (m)		TDL
Bottom Log Interval	2973.0 (m)		BLI
Top Log Interval	1928.0 (m)		TLI

Current Casing Size	7.00 (in)			CSIZ
Casing Depth From	1936.4 (m)			CDF
Casing Depth To	3224.6 (m)			CADT
Casing Grade	K-55			CASG
Casing Weight	23.0 (lbm/ft)			CWEI
Bit Size	8.50 (in)			BS
Bit Size Depth From	1942.5 (m)			BSDF
Bit Size Depth To	3244.0 (m)			BSDT
Date Logger At Bottom	18-Dec-2009	Time Logger At Bottom	11:00	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	Prod 4 / AUSL	LUN, LUL
Engineer's Name	Owen Darby			ENGI
Witness's Name	David Madden			WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	230.0 (degF)			MRT
	230.0 (degF)			MRT1
Date Logger At Bottom	18-Dec-2009	Time Logger At Bottom	11:00	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
Objective:	R2
Make up full PLT toolstring incorporating GR/CCL/Gradio/IL-Spinner/FB-Spinner/	R3
Pressure/Temperature	R4
Static:	R5
Conduct a downwards logging pass over the interval 1928m to HUD (2973m MDKB)	R6
@10m/min (1970ft/hr). Complete spinner calibration passes.	R7
Complete an upwards logging pass over the interval HUD (2973m) to 1928m MDKB.	R8
Flowing:	R9
RIH to HUD and flow well to test separator, wait for well to stabilise.	R10
Conduct two up passes one up @ 5m/min (980ft/hr) over interval 2880 – 2973m	R11
one @ 10m/min (1970ft/hr). Complete two down passes over same interval @	R12
10m/min (1970ft/hr) & 20m/min (3940ft/hr). Stop flowing well and pull up to	R13
inside tubing @ 2520m MDKB.	R14
Conduct an up pass @ 5m/min (980ft/hr) and one down pass @ 10m/min (1970ft/hr)	R15
Crew:	R16
Nathan Simmons & Peter Lawrence	R17

Other Services

2-1/8" PowerJet Perf	OS1
4-1/2" MPBT Plug	OS2
2-1/8" Dump bailers	OS3
Tubing patch	OS4

Frame Summary File: FCS_ILS_DEFT_GMS_063PUP Sequence: 9

Origin: 45

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2538.83	1918.87 m	-60.0 (0.1 in) up	95	TDEP	60B
	8329.50	6295.50 ft				
BOREHOLE-DEPTH	2538.83	1918.89 m	-10.0 (0.1 in) up	4	TDEP;1	10B
	8329.50	6295.58 ft				



Verification Listing

Listing Completed: 21-DEC-2009 18:38:13