

Input Source: D:\OP_Folder\Clients\Eso2008_OP16\HLA_A20A\GUN\COMP_HLA_A20A_COMP_082.DLIS
Format: DLIS
Storage Set ID: Default Storage Set

Max Record Length: 8192
Storage Unit Sequence: 1

File Header File: **PERFO_030LUP** Sequence: **1**

Defining Origin: 45

File ID: PERFO_030LUP File Type: DEPTH LOG

Producer Name: Schlumberger

Product/Version: OP 16C0-147

File Set: 41

File Number: 28

9-JAN-2009 17:30:04

Company Name: Esso Australia Pty Ltd.

Well Name: A-20a

Field Name: Halibut

Tool String: MWP_GUN, MWPT-CA, MWGT-AA

Computations: WELLCAD, BORDYN

Error Summary File: **PERFO_030LUP** Sequence: **1**

No errors detected in file.

Well Site Data File: **PERFO_030LUP** Sequence: **1**

Origin: 45

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-20a	WN
Field Name	Halibut	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148°19' 07.62"E	LONG
Latitude	38°24' 20.36"S	LATI
Maximum Hole Deviation	37.0 (deg)	MHD
Elevation of Kelly Bushing	29.5 (m)	EKB
Elevation of Ground Level	-73.0 (m)	EGL
Elevation of Derrick Floor	29.5 (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	29.5 (m)

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

Job Data

Run Number	1 through 5	RUN
Total Depth - Driller	2786.0 (m)	TDD
Total Depth - Logger	2641.0 (m)	TDL
Bottom Log Interval	2641.0 (m)	BLI
Top Log Interval	2600.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2009.5 (m)	CDF
Casing Depth To	2785.0 (m)	CADT
Casing Grade	13 Cr	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS
Bit Size Depth From	535.0 (m)	BSDF
Bit Size Depth To	3273.0 (m)	BSDT
Time Logger At Bottom	10:00	TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert,	ENGI
Witness's Name	D Madden	WITN
	Logging Unit Location	Prod 4 / AUSL

Absent Valued Parameters: DATE, DLAB, SON

Mud Data

Drilling Fluid Type	Production Fluids	DFT
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Maximum Recorded Temperature

220.0 (degF)

Time Logger At Bottom

10:00

MRT

MRT1

TLAB

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

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 Composite supplied with logging program.

Objective: RIH with dummy toolstring to ensure access through minimum restrictions.

Perforate the interval 2635m to 2636m MDKB using 2–1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.

Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1m of Cement on top .

Maximum Deviation = 37deg @ 550m MDKB

HUD: 2645m MDKB

Before Gun SBHP: ----- psia SBHT: ----- (

After Gun SBHP: ----- psia SBHT: ----- (

Gun# 1 2635m to 2636m MDKB

Top shot @ 2635m MDKB

CCL to Top Shot= 4.64 m

CCL Stop Depth = 2630.36m MDKB

Posiset Plug Top of Seal @ 2637.5m MDKB

CCL to Top of Seal = m MDKB

CCL Stop Depth @

CCL to Bottom of Dump Bailer = 12 m

Schlumberger crews: J Light, A Mclellan

R1

R2

R3

R4

R5

R6

R7

R8

R9

R10

R11

R12

R13

R14

R15

R16

R17

Other Services

None

OS1

Frame Summary File: PERFO_030LUP Sequence: 1						
Origin: 45						
<div>Index Type</div>	<div>Start</div>	<div>Stop</div>	<div>Spacing</div>	<div>Channels</div>	<div>Index Channel</div>	<div>Frame Name</div>
BOREHOLE-DEPTH	2630.27	2544.93 m	-60.0 (0.1 in) up	22	TDEP	60B
	8629.50	8349.50 ft				
BOREHOLE-DEPTH	2630.27	2544.95 m	-10.0 (0.1 in) up	10	TDEP;1	10B
	8629.50	8349.58 ft				

File Header

File: PERFO_077LUP

Sequence: 2

Defining Origin: 79

File ID: PERFO_077LUP File Type: DEPTH LOG

Producer Name: Schlumberger Product/Version: OP 16C0-147 File Set: 41 File Number: 75 11-JAN-2009 15:58:59

Company Name: Esso Australia Pty Ltd.

Well Name: A-20a

Field Name: Halibut

Tool String: SHM_GUN, CCL-L

Computations: WELLCAD

Error Summary File: PERFO_077LUP Sequence: 2		
No errors detected in file.		

Well Site Data

File: PERFO_077LUP

Sequence: 2

Origin: 79

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-20a	WN
Field Name	Halibut	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AXWT-00098	SON
Longitude	148°19' 07.62"E	LONG
Latitude	38°24' 20.36"S	LATI
Maximum Hole Deviation	37.0 (deg)	MHD
Elevation of Kelly Bushing	29.5 (m)	EKB
Elevation of Ground Level	-73.0 (m)	EGL
Elevation of Derrick Floor	29.5 (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	29.5 (m)

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

Job Data

Date as Month-Day-Year	9-Jan-2009	DATE
Run Number	1 through 6	RUN
Total Depth - Driller	2641.0 (m)	TDD
Total Depth - Logger	2640.0 (m)	TDL
Bottom Log Interval	2640.0 (m)	BLI
Top Log Interval	2600.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2009.5 (m)	CDF
Casing Depth To	2785.0 (m)	CADT
Casing Grade	13 Cr	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS
Bit Size Depth From	535.0 (m)	BSDF
Bit Size Depth To	3273.0 (m)	BSDT
Date Logger At Bottom	9-Jan-2009	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert, B Donahoe	ENGI
Witness's Name	B White	WITN
Service Order Number	AXWT-00098	SON
	Time Logger At Bottom	10:00
	Logging Unit Location	Prod 4 / AUSL

Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	222.0 (degF)	MRT
	222.0 (degF)	MRT1
Date Logger At Bottom	9-Jan-2009	DLAB, TLAB
	Time Logger At Bottom	10:00

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 Composite supplied with logging program.	R1
Objective: RIH with dummy toolstring to ensure access through minimum restrictions.	R2
Perforate the interval 2635m to 2636m MDKB using 2-1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.	R3
Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1.2m of Cement on top .	R4
Maximum Deviation = 37deg @ 550m MDKB	R5
HUD: 2640m MDKB	R6
Before Gun SBHP: 3010 psia SBHT: 222 degf	R7
After Gun SBHP: 3046 psia SBHT: 222.3 degf	R8
Gun# 1 2635m to 2636m MDKB	R9
Top shot @ 2635m MDKB	R10
CCL to Top Shot= 4.64 m	R11
CCL Stop Depth = 2630.36m MDKB	R12
Posiset Plug Top of Seal @ 2637.5m MDKB	R13
CCL to Top of Seal = 6.8 m MDKB	R14
CCL Stop Depth @ 2930.7	R15
CCL to Bottom of Dump Bailer = 12 m	R16
Schlumberger crews: J Light, A Mclellan	R17

Other Services					None		OS1
Frame Summary File: PERFO_077LUP Sequence: 2							
Origin: 79							
Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name	
BOREHOLE-DEPTH	2627.38	2575.10 m	-60.0 (0.1 in) up	7	TDEP	60B	
	8620.00	8448.50 ft					
BOREHOLE-DEPTH	2627.38	2575.13 m	-10.0 (0.1 in) up	7	TDEP;1	10B	
	8620.00	8448.58 ft					
File Header File: PERFO_080LUP Sequence: 3							
Defining Origin: 79							
File ID: PERFO_080LUP File Type: DEPTH LOG							
Producer Name: Schlumberger		Product/Version: OP 16C0-147		File Set: 41	File Number: 78	11-JAN-2009 17:29:50	
Company Name: Esso Australia Pty Ltd.							
Well Name: A-20a							
Field Name: Halibut							
Tool String: SHM_GUN, CCL-L							
Computations: WELLCAD							

Error Summary File: PERFO_080LUP Sequence: 3		
No errors detected in file.		

Well Site Data File: PERFO_080LUP Sequence: 3		
Origin: 79		
Well Data		
Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-20a	WN
Field Name	Halibut	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AXWT-00098	SON
Longitude	148°19' 07.62"E	LONG
Latitude	38°24' 20.36"S	LATI
Maximum Hole Deviation	37.0 (deg)	MHD
Elevation of Kelly Bushing	29.5 (m)	EKB
Elevation of Ground Level	-73.0 (m)	EGL
Elevation of Derrick Floor	29.5 (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 29.5 (m)		
Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN		
Job Data		
Date as Month-Day-Year	9-Jan-2009	DATE
Run Number	1 through 6	RUN
Total Depth - Driller	2641.0 (m)	TDD
Total Depth - Logger	2640.0 (m)	TDL
Bottom Log Interval	2640.0 (m)	BLI
Top Log Interval	2600.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2009.5 (m)	CDF
Casing Depth To	2785.0 (m)	CADT
Casing Grade	13 Cr	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS

Bit Size Depth From	535.0 (m)			BSDF
Bit Size Depth To	3273.0 (m)			BSDT
Date Logger At Bottom	9-Jan-2009	Time Logger At Bottom	10:00	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	Prod 4 / AUSL	LUN, LUL
Engineer's Name	S Gilbert, B Donahoe			ENGI
Witness's Name	B White			WITN
Service Order Number	AXWT-00098			SON
Mud Data				
Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	222.0 (degF)			MRT
	222.0 (degF)			MRT1
Date Logger At Bottom	9-Jan-2009	Time Logger At Bottom	10:00	DLAB, TLAB
Absent Valued Parameters: DFD, DFV, DFL, DFP, 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 Composite supplied with logging program.				R1
Objective: RIH with dummy toolstring to ensure access through minimum restrictions.				R2
Perforate the interval 2635m to 2636m MDKB using 2-1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.				R3
Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1.2m of Cement on top .				R4
Maximum Deviation = 37deg @ 550m MDKB				R5
HUD: 2640m MDKB				R6
Before Gun SBHP: 3010 psia SBHT: 222 degf				R7
After Gun SBHP: 3046 psia SBHT: 222.3 degf				R8
Gun# 1 2635m to 2636m MDKB				R9
Top shot @ 2635m MDKB				R10
CCL to Top Shot= 4.64 m				R11
CCL Stop Depth = 2630.36m MDKB				R12
Posiset Plug Top of Seal @ 2637.5m MDKB				R13
CCL to Top of Seal = 6.8 m MDKB				R14
CCL Stop Depth @ 2930.7				R15
CCL to Bottom of Dump Bailer = 12 m				R16
Schlumberger crews: J Light, A Mclellan				R17
Other Services				
None				OS1

Frame Summary File: PERFO_080LUP Sequence: 3						
Origin: 79						
<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	2624.33	2587.90 m	-60.0 (0.1 in) up	7	TDEP	60B
	8610.00	8490.50 ft				
BOREHOLE-DEPTH	2624.33	2587.78 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	8610.00	8490.08 ft				

File Header		File: MPBT_067LUP	Sequence: 4
Defining Origin: 118			
File ID: MPBT_067LUP File Type: DEPTH LOG			
Producer Name: Schlumberger		Product/Version: OP 16C0-147	File Set: 41 File Number: 65 11-JAN-2009 13:57:08
Company Name:	Esso Australia Pty Ltd.		
Well Name:	A-20a		
Field Name:	Halibut		
Tool String:	MPEX-AA, MPSU-CA, CCL-I		
Computations:	WELLCAD		

Error Summary File: MPBT_067LUP Sequence: 4	
No errors detected in file.	

Well Site Data

File: MPBT_067LUP

Sequence: 4

Origin: 118

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A-20a		WN
Field Name	Halibut		FN
Rig:	Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	AXWT-00098		SON
Longitude	148°19' 07.62"E		LONG
Latitude	38°24' 20.36"S		LATI
Maximum Hole Deviation	37.0 (deg)		MHD
Elevation of Kelly Bushing	29.5 (m)		EKB
Elevation of Ground Level	-73.0 (m)		EGL
Elevation of Derrick Floor	29.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	K.B	Above Permanent Datum 29.5 (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	9-Jan-2009		DATE
Run Number	1 through 6		RUN
Total Depth - Driller	2641.0 (m)		TDD
Total Depth - Logger	2640.0 (m)		TDL
Bottom Log Interval	2640.0 (m)		BLI
Top Log Interval	2600.0 (m)		TLI
Current Casing Size	4.50 (in)		CSIZ
Casing Depth From	2009.5 (m)		CDF
Casing Depth To	2785.0 (m)		CADT
Casing Grade	13 Cr		CASG
Casing Weight	12.6 (lbm/ft)		CWEI
Bit Size	6.00 (in)		BS
Bit Size Depth From	535.0 (m)		BSDF
Bit Size Depth To	3273.0 (m)		BSDT
Date Logger At Bottom	9-Jan-2009	Time Logger At Bottom 10:00	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod 4 / AUSL	LUN, LUL
Engineer's Name	S Gilbert, B Donahoe		ENGI
Witness's Name	B White		WITN
Service Order Number	AXWT-00098		SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	222.0 (degF)		MRT
	222.0 (degF)		MRT1
Date Logger At Bottom	9-Jan-2009	Time Logger At Bottom 10:00	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 Composite supplied with logging program.	R1
Objective: RIH with dummy toolstring to ensure access through minimum restrictions.	R2
Perforate the interval 2635m to 2636m MDKB using 2-1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.	R3
Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1m of Cement on top .	R4

Maximum Deviation = 37deg @ 550m MDKB	R5
HUD: 2645m MDKB	R6
Before Gun SBHP: 3010 psia SBHT: 222 degf	R7
After Gun SBHP: 3046 psia SBHT: 222.3 degf	R8
Gun# 1 2635m to 2636m MDKB	R9
Top shot @ 2635m MDKB	R10
CCL to Top Shot= 4.64 m	R11
CCL Stop Depth = 2630.36m MDKB	R12
Posiset Plug Top of Seal @ 2637.5m MDKB	R13
CCL to Top of Seal = 6.8 m MDKB	R14
CCL Stop Depth @ 2930.7	R15
CCL to Bottom of Dump Bailer = 12 m	R16
Schlumberger crews: J Light, A Mclellan	R17
Other Services	
None	OS1

Frame Summary		File: MPBT_067LUP	Sequence: 4			
Origin: 118						
Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH	2630.58	2578.46 m	-60.0 (0.1 in) up	7	TDEP	60B
	8630.50	8459.50 ft				
BOREHOLE-DEPTH	2630.58	2578.48 m	-10.0 (0.1 in) up	7	TDEP,1	10B
	8630.50	8459.58 ft				

File Header	File: MPBT_066LUP	Sequence: 5
Defining Origin: 118		
File ID: MPBT_066LUP	File Type: DEPTH LOG	
Producer Name: Schlumberger	Product/Version: OP 16C0-147	File Set: 41
		File Number: 64
		11-JAN-2009 13:39:59
Company Name:	Esso Australia Pty Ltd.	
Well Name:	A-20a	
Field Name:	Halibut	
Tool String:	MPEX-AA, MPSU-CA, CCL-I	
Computations:	WELLCAD	

Error Summary	File: MPBT_066LUP	Sequence: 5
No errors detected in file.		

Well Site Data	File: MPBT_066LUP	Sequence: 5
Origin: 118		
Well Data		
Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-20a	WN
Field Name	Halibut	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AXWT-00098	SON
Longitude	148°19' 07.62"E	LONG
Latitude	38°24' 20.36"S	LATI
Maximum Hole Deviation	37.0 (deg)	MHD
Elevation of Kelly Bushing	29.5 (m)	EKB
Elevation of Ground Level	-73.0 (m)	EGL
Elevation of Derrick Floor	29.5 (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	9-Jan-2009	DATE

Run Number	1 through 6			RUN
Total Depth – Driller	2641.0 (m)			TDD
Total Depth – Logger	2640.0 (m)			TDL
Bottom Log Interval	2640.0 (m)			BLI
Top Log Interval	2600.0 (m)			TLI
Current Casing Size	4.50 (in)			CSIZ
Casing Depth From	2009.5 (m)			CDF
Casing Depth To	2785.0 (m)			CADT
Casing Grade	13 Cr			CASG
Casing Weight	12.6 (lbm/ft)			CWEI
Bit Size	6.00 (in)			BS
Bit Size Depth From	535.0 (m)			BSDF
Bit Size Depth To	3273.0 (m)			BSDT
Date Logger At Bottom	9–Jan–2009	Time Logger At Bottom	10:00	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	Prod 4 / AUSL	LUN, LUL
Engineer's Name	S Gilbert, B Donahoe			ENGI
Witness's Name	B White			WITN
Service Order Number	AXWT–00098			SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	222.0 (degF)			MRT
	222.0 (degF)			MRT1
Date Logger At Bottom	9–Jan–2009	Time Logger At Bottom	10:00	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 Job Type	Primary			CJT
Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA				

Remarks

Log correlated to ExxonMobil Composite supplied with logging program.	R1
Objective: RIH with dummy toolstring to ensure access through minimum restrictions.	R2
Perforate the interval 2635m to 2636m MDKB using 2–1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.	R3
Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1m of Cement on top .	R4
Maximum Deviation = 37deg @ 550m MDKB	R5
HUD: 2645m MDKB	R6
Before Gun SBHP: 3010 psia SBHT: 222 degf	R7
After Gun SBHP: 3046 psia SBHT: 222.3 degf	R8
Gun# 1 2635m to 2636m MDKB	R9
Top shot @ 2635m MDKB	R10
CCL to Top Shot= 4.64 m	R11
CCL Stop Depth = 2630.36m MDKB	R12
Posiset Plug Top of Seal @ 2637.5m MDKB	R13
CCL to Top of Seal = 6.8 m MDKB	R14
CCL Stop Depth @ 2930.7	R15
CCL to Bottom of Dump Bailer = 12 m	R16
Schlumberger crews: J Light, A Mclellan	R17

Other Services

None	OS1
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<div> <div>Frame Summary</div> <div>File: MPBT_066LUP</div> <div>Sequence: 5</div> </div>						
Origin: 118						
<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	12192.00	11957.30 m	–60.0 (0.1 in) up	7	TDEP	60B
	40000.00	39230.00 ft				
BOREHOLE–DEPTH	12192.00	11957.33 m	–10.0 (0.1 in) up	4	TDEP;1	10B
	40000.00	39230.08 ft				

File Header	File: MPBT_064LUP	Sequence: 6
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Error Summary

File: MPBT_064LUP Sequence: 6

No errors detected in file.

Well Site Data

File: MPBT_064LUP Sequence: 6

Origin: 118

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-20a	WN
Field Name	Halibut	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Service Order Number	AXWT-00098	SON
Longitude	148°19' 07.62"E	LONG
Latitude	38°24' 20.36"S	LATI
Maximum Hole Deviation	37.0 (deg)	MHD
Elevation of Kelly Bushing	29.5 (m)	EKB
Elevation of Ground Level	-73.0 (m)	EGL
Elevation of Derrick Floor	29.5 (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 29.5 (m)	

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

Job Data

Date as Month-Day-Year	9-Jan-2009	DATE
Run Number	1 through 6	RUN
Total Depth - Driller	2641.0 (m)	TDD
Total Depth - Logger	2640.0 (m)	TDL
Bottom Log Interval	2640.0 (m)	BLI
Top Log Interval	2600.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2009.5 (m)	CDF
Casing Depth To	2785.0 (m)	CADT
Casing Grade	13 Cr	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS
Bit Size Depth From	535.0 (m)	BSDF
Bit Size Depth To	3273.0 (m)	BSDT
Date Logger At Bottom	9-Jan-2009	DLAB, TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert, B Donahoe	ENGI
Witness's Name	B White	WITN
Service Order Number	AXWT-00098	SON
	Time Logger At Bottom 10:00	
	Logging Unit Location Prod 4 / AUSL	

Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	222.0 (degF)	MRT
	222.0 (degF)	MRT1
Date Logger At Bottom	9-Jan-2009	DLAB, TLAB
	Time Logger At Bottom 10:00	

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

OS1

CN
WN
FN
CLAB, COUN
SLAB, STAT
NATI
FL
FL1
FL2
SON
LONG
LATI
MHD
EKB
EGL

Elevation of Derrick Floor

Permanent Datum

Log Measured From

Drilling Measured From

29.5 (m)

M.S.L

K.B

K.B

Elevation of Permanent Datum

Above Permanent Datum

0.0 (m)

29.5 (m)

EDF

PDAT, EPD

LMF, APD

DMF

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

Job Data

Date as Month–Day–Year

Run Number

Total Depth – Driller

Total Depth – Logger

Bottom Log Interval

Top Log Interval

Current Casing Size

Casing Depth From

Casing Depth To

Casing Grade

Casing Weight

Bit Size

Bit Size Depth From

Bit Size Depth To

Date Logger At Bottom

Logging Unit Number

Engineer's Name

Witness's Name

Service Order Number

9–Jan–2009

1 through 6

2641.0 (m)

2640.0 (m)

2640.0 (m)

2600.0 (m)

4.50 (in)

2009.5 (m)

2785.0 (m)

13 Cr

12.6 (lbm/ft)

6.00 (in)

535.0 (m)

3273.0 (m)

9–Jan–2009

889

S Gilbert, B Donahoe

B White

AXWT–00098

DATE

RUN

TDD

TDL

BLI

TLI

CSIZ

CDF

CADT

CASG

CWEI

BS

BSDF

BSDT

DLAB, TLAB

LUN, LUL

ENGI

WITN

SON

Mud Data

Drilling Fluid Type

Maximum Recorded Temperature

Date Logger At Bottom

Production Fluids

222.0 (degF)

222.0 (degF)

9–Jan–2009

Time Logger At Bottom

10:00

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 Composite supplied with logging program.

Objective: RIH with dummy toolstring to ensure access through minimum restrictions.

Perforate the interval 2635m to 2636m MDKB using 2–1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.

Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1m of Cement on top .

Maximum Deviation = 37deg @ 550m MDKB

HUD: 2645m MDKB

Before Gun SBHP: 3010 psia SBHT: 222 degf

After Gun SBHP: 3046 psia SBHT: 222.3 degf

Gun# 1 2635m to 2636m MDKB

Top shot @ 2635m MDKB

CCL to Top Shot= 4.64 m

CCL Stop Depth = 2630.36m MDKB

Posiset Plug Top of Seal @ 2637.5m MDKB

CCL to Top of Seal = 6.8 m MDKB

CCL Stop Depth @ 2930.7

CCL to Bottom of Dump Bailer = 12 m

Schlumberger crews: J Light, A Mclellan

R1

R2

R3

R4

R5

R6

R7

R8

R9

R10

R11

R12

R13

R14

R15

R16

R17

Other Services

None

OS1

Frame Summary

File: MPBT_061LUP

Sequence: 7

Origin: 118

Index Type

Start

Stop

Spacing

Channels

Index Channel

Frame Name

BOREHOLE–DEPTH

2032.71

2010.00 m

–60.0 (0.1 in) up

7

TDEP

60B

BOREHOLE–DEPTH

6669.00

6594.50 ft

BOREHOLE–DEPTH

2032.71

2009.88 m

–10.0 (0.1 in) up

7

TDEP;1

10B

6669.00

6594.08 ft

File Header

File: PSP_047PUP

Sequence: 8

Defining Origin: 125

File ID: PSP_047PUP File Type: PLAYBACK

Producer Name: Schlumberger

Product/Version: OP 16C0-147

File Set: 41

File Number: 45

10-JAN-2009 14:25:23

Company Name: Esso Australia Pty Ltd.

Well Name: A-20a

Field Name: Halibut

Tool String: PSPT-B

Computations: WELLCAD, BORDYN

Error SummaryFile: **PSP_047PUP**Sequence: **8**

No errors detected in file.

Well Site DataFile: **PSP_047PUP**Sequence: **8****Origin: 125****Well Data**

Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-20a	WN
Field Name	Halibut	FN
Rig:	Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148°19' 07.62"E	LONG
Latitude	38°24' 20.36"S	LATI
Maximum Hole Deviation	37.0 (deg)	MHD
Elevation of Kelly Bushing	29.5 (m)	EKB
Elevation of Ground Level	-73.0 (m)	EGL
Elevation of Derrick Floor	29.5 (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	29.5 (m)

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

Job Data

Run Number	1 through 5	RUN
Total Depth - Driller	2786.0 (m)	TDD
Total Depth - Logger	2641.0 (m)	TDL
Bottom Log Interval	2641.0 (m)	BLI
Top Log Interval	2600.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2009.5 (m)	CDF
Casing Depth To	2785.0 (m)	CADT
Casing Grade	13 Cr	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS
Bit Size Depth From	535.0 (m)	BSDF
Bit Size Depth To	3273.0 (m)	BSDT
Time Logger At Bottom	10:00	TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert,	ENGI
Witness's Name	D Madden	WITN
	Logging Unit Location	Prod 4 / AUSL

Absent Valued Parameters: DATE, DLAB, SON

Mud Data

Drilling Fluid Type	Production Fluids	DFT
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Maximum Recorded Temperature	220.0 (degF)	MRT
Time Logger At Bottom	220.0 (degF)	MRT1
	10:00	TLAB
Absent Valued Parameters: DFD, DFDV, DFL, DFPF, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT2, MRT3, DCS, TCS, DLAB		
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 Composite supplied with logging program.		R1
Objective: RIH with dummy toolstring to ensure access through minimum restrictions.		R2
Perforate the interval 2635m to 2636m MDKB using 2-1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.		R3
Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1m of Cement on top .		R4
Maximum Deviation = 37deg @ 550m MDKB		R5
HUD: 2645m MDKB		R6
Before Gun SBHP: 3010 psia SBHT: 222 degf		R7
After Gun SBHP: 3046 psia SBHT: 222.3 degf		R8
Gun# 1 2635m to 2636m MDKB		R9
Top shot @ 2635m MDKB		R10
CCL to Top Shot= 4.64 m		R11
CCL Stop Depth = 2630.36m MDKB		R12
Posiset Plug Top of Seal @ 2637.5m MDKB		R13
CCL to Top of Seal = m MDKB		R14
CCL Stop Depth @		R15
CCL to Bottom of Dump Bailer = 12 m		R16
Schlumberger crews: J Light, A Mclellan		R17
Other Services		
None		OS1

Frame Summary File: PSP_047PUP Sequence: 8						
Origin: 125						
<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	2640.94	2569.92 m	-60.0 (0.1 in) up	28	TDEP	60B
	8664.50	8431.50 ft				
BOREHOLE-DEPTH	2640.94	2569.95 m	-10.0 (0.1 in) up	7	TDEP;1	10B
	8664.50	8431.58 ft				

File Header		File: PSP_046PUP	Sequence: 9		
Defining Origin: 125					
File ID: PSP_046PUP		File Type: PLAYBACK			
Producer Name: Schlumberger		Product/Version: OP 16C0-147		File Set: 41	File Number: 44 10-JAN-2009 14:15:22
Company Name:		Esso Australia Pty Ltd.			
Well Name:		A-20a			
Field Name:		Halibut			
Tool String:		PSPT-B			
Computations:		WELLCAD, BORDYN			

Error Summary File: PSP_046PUP Sequence: 9		
No errors detected in file.		

Well Site Data File: PSP_046PUP Sequence: 9		
Origin: 125		
Well Data		
Company Name	Esso Australia Pty Ltd.	CN
Well Name	A-20a	WN
Field Name	Halibut	FN
Rig:	Crane	CLAB, COUN

State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Gippsland	FL
	Basin	FL1
	Bass Strait	FL2
Longitude	148°19' 07.62"E	LONG
Latitude	38°24' 20.36"S	LATI
Maximum Hole Deviation	37.0 (deg)	MHD
Elevation of Kelly Bushing	29.5 (m)	EKB
Elevation of Ground Level	-73.0 (m)	EGL
Elevation of Derrick Floor	29.5 (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 29.5 (m)		

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

Job Data

Run Number	1 through 5	RUN
Total Depth – Driller	2786.0 (m)	TDD
Total Depth – Logger	2641.0 (m)	TDL
Bottom Log Interval	2641.0 (m)	BLI
Top Log Interval	2600.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2009.5 (m)	CDF
Casing Depth To	2785.0 (m)	CADT
Casing Grade	13 Cr	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS
Bit Size Depth From	535.0 (m)	BSDF
Bit Size Depth To	3273.0 (m)	BSDT
Time Logger At Bottom	10:00	TLAB
Logging Unit Number	889	LUN, LUL
Engineer's Name	S Gilbert,	ENGI
Witness's Name	D Madden	WITN
Logging Unit Location		Prod 4 / AUSL

Absent Valued Parameters: DATE, DLAB, SON

Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	220.0 (degF)	MRT
	220.0 (degF)	MRT1
Time Logger At Bottom	10:00	TLAB

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

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 Composite supplied with logging program.	R1
Objective: RIH with dummy toolstring to ensure access through minimum restrictions.	R2
Perforate the interval 2635m to 2636m MDKB using 2–1/8" 6spf, 45 deg phased Powerjet perforating guns with MWPT.	R3
Set 4.5" posiset Plug with top of Seal @ 2637.5m MDKB , then Dump approx 1m of Cement on top .	R4
Maximum Deviation = 37deg @ 550m MDKB	R5
HUD: 2645m MDKB	R6
Before Gun SBHP: 3010 psia SBHT: 222 degf	R7
After Gun SBHP: 3046 psia SBHT: 222.3 degf	R8
Gun# 1 2635m to 2636m MDKB	R9
Top shot @ 2635m MDKB	R10
CCL to Top Shot= 4.64 m	R11
CCL Stop Depth = 2630.36m MDKB	R12
Posiset Plug Top of Seal @ 2637.5m MDKB	R13
CCL to Top of Seal = m MDKB	R14
CCL Stop Depth @	R15
CCL to Bottom of Dump Bailer = 12 m	R16
Schlumberger crews: J Light, A Mclellan	R17

Other Services

None	OS1
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Index Type		Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE-DEPTH		2643.38	1990.04 m	-60.0 (0.1 in) up	28	TDEP	60B
		8672.50	6529.00 ft				
BOREHOLE-DEPTH		2643.38	1990.06 m	-10.0 (0.1 in) up	7	TDEP;1	10B
		8672.50	6529.08 ft				



Verification Listing

Listing Completed: 11-JAN-2009 17:48:58