Schlumberger Verification Listing

Listing Created: 1−NOV−2009 19:58:26

Input Source: D:\OP_Folder\Clients\Esso_2009\BMA_A13a\GUN\COMP_BMA_A13A_COMP_058.DLIS
Format: DLIS
Storage Set ID: Default Storage Set
Max Record Length: 8192
Storage Unit Sequence: 1

File Header File: **PERFO_018LUP** Sequence: **1**

Defining Origin: 30

File ID: PERFO_018LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 22 31−OCT−2009 19:30:20

Company Name: Esso Australia Pty Ltd.
Well Name: A−13a
Field Name: Bream A
Tool String: MWP_GUN, MWPT−CA, MWGT−A
Computations: WELLCAD, BORDYN

Error Summary File: **PERFO_018LUP** Sequence: **1**

No errors detected in file.

Well Site Data File: **PERFO_018LUP** Sequence: **1**

Origin: 30

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	28−Oct−2009		DATE
Run Number	2 through 6		RUN
Total Depth − Driller	2578.0 (m)		TDD
Total Depth − Logger	2578.0 (m)		TDL
Bottom Log Interval	2578.0 (m)		BLI
Top Log Interval	2200.0 (m)		TLI
Current Casing Size	4.50 (in)		CSIZ
Casing Depth From	2291.0 (m)		CDF
Casing Depth To	2682.0 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	12.6 (lbm/ft)		CWEI
Bit Size	6.00 (in)		BS
Bit Size Depth From	2455.0 (m)		BSDF
Bit Size Depth To	2733.0 (m)		BSDT
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom 14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.		ENGI
Witness's Name	B White		WITN
Service Order Number	B297−00017		SON

Mud Data

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	210.0 (degF)		MRT
	210.0 (degF)		MRT1
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom 14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572.5m MDKB and then dump approx 1m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R7
Top Shot @ 2564 m MDKB	R8
CCL to Top Shot = 4 m	R9
CCL Stop Depth = 2560 m MDKB	R10
4.5" Posiset Plug top of Seal Set @ 2095m MDKB	R12
CCL to Top of Seal = 6.8 m	R13
CCL stop Depth = m MDKB	R14
1m of Cement dumped in 1 Run.	R15
Crew : J Annear , A Pratt	R17

Other Services

RST Survey	OS1

Frame Summary

File: **PERFO_018LUP** Sequence: **1**

Origin: 30

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2567.18 m	2530.30 m	−60.0 (0.1 in) up	22	TDEP	60B
	8422.50 ft	8301.50 ft				
BOREHOLE−DEPTH	2567.18 m	2530.32 m	−10.0 (0.1 in) up	10	TDEP;1	10B
	8422.50 ft	8301.58 ft				

File Header

File: **PERFO_020LTP** Sequence: **2**

Defining Origin: 30

File ID: PERFO_020LTP File Type: STATION
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 24 31−OCT−2009 19:42:44

Company Name:	Esso Australia Pty Ltd.
Well Name:	A−13a
Field Name:	Bream A
Tool String:	MWP_GUN, MWPT−CA, MWGT−AA
Computations:	WELLCAD, BORDYN

Error Summary

File: **PERFO_020LTP** Sequence: **2**

No errors detected in file.

Well Site Data

File: **PERFO_020LTP** Sequence: **2**

Origin: 30

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	28−Oct−2009		DATE
Run Number	2 through 6		RUN
Total Depth − Driller	2578.0 (m)		TDD
Total Depth − Logger	2578.0 (m)		TDL
Bottom Log Interval	2578.0 (m)		BLI
Top Log Interval	2200.0 (m)		TLI
Current Casing Size	4.50 (in)		CSIZ
Casing Depth From	2291.0 (m)		CDF
Casing Depth To	2682.0 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	12.6 (lbm/ft)		CWEI
Bit Size	6.00 (in)		BS
Bit Size Depth From	2455.0 (m)		BSDF
Bit Size Depth To	2733.0 (m)		BSDT
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom 14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.		ENGI
Witness's Name	B White		WITN
Service Order Number	B297−00017		SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	210.0 (degF)		MRT
	210.0 (degF)		MRT1
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom 14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572.5m MDKB and then dump approx 1m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R7
Top Shot @ 2564 m MDKB	R8
CCL to Top Shot = 4 m	R9
CCL Stop Depth = 2560 m MDKB	R10
4.5" Posiset Plug top of Seal Set @ 2095m MDKB	R12
CCL to Top of Seal = 6.8 m	R13
CCL stop Depth = m MDKB	R14
1m of Cement dumped in 1 Run.	R15
Crew : J Annear , A Pratt	R17

Other Services

RST Survey	OS1

Frame Summary File: **PERFO_020LTP** Sequence: **2**

Origin: 30

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
TIME	3714.03	4980.03 s	2000.0 (0.5 ms)	7	TIME;2	2000T
TIME	3714.03	4980.53 s	1000.0 (0.5 ms)	14	TIME;4	1000T
TIME	3714.03	4980.78 s	500.0 (0.5 ms)	4	TIME;5	500T

File Header File: **PERFO_021LUP** Sequence: **3**

Defining Origin: 4

File ID: PERFO_021LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 25 31−OCT−2009 20:10:39

Company Name: Esso Australia Pty Ltd.
Well Name: A−13a
Field Name: Bream A
Tool String: MWP_GUN, MWPT−CA, MWGT−A
Computations: WELLCAD, BORDYN

Error Summary File: **PERFO_021LUP** Sequence: **3**

No errors detected in file.

Well Site Data File: **PERFO_021LUP** Sequence: **3**

Origin: 4

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	28−Oct−2009	DATE
Run Number	2 through 6	RUN
Total Depth − Driller	2578.0 (m)	TDD
Total Depth − Logger	2578.0 (m)	TDL
Bottom Log Interval	2578.0 (m)	BLI
Top Log Interval	2200.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2291.0 (m)	CDF
Casing Depth To	2682.0 (m)	CADT
Casing Grade	L−80	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS

Bit Size Depth From	2455.0 (m)			BSDF
Bit Size Depth To	2733.0 (m)			BSDT
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom	14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.			ENGI
Witness's Name	B White			WITN
Service Order Number	B297−00017			SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	210.0 (degF)			MRT
	210.0 (degF)			MRT1
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom	14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572.5m MDKB and then dump approx 1m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R7
Top Shot @ 2564 m MDKB	R8
CCL to Top Shot = 4 m	R9
CCL Stop Depth = 2560 m MDKB	R10
4.5" Posiset Plug top of Seal Set @ 2095m MDKB	R12
CCL to Top of Seal = 6.8 m	R13
CCL stop Depth = m MDKB	R14
1m of Cement dumped in 1 Run.	R15
Crew : J Annear , A Pratt	R17

Other Services

RST Survey	OS1

Frame Summary File: **PERFO_021LUP** Sequence: **3**

Origin: 4

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2567.94 m	2515.67 m	−60.0 (0.1 in) up	22	TDEP	60B
	8425.00 ft	8253.50 ft				
BOREHOLE−DEPTH	2567.94 m	2515.69 m	−10.0 (0.1 in) up	10	TDEP;1	10B
	8425.00 ft	8253.58 ft				

File Header File: **PERFO_028PUP** Sequence: **4**

Defining Origin: 91

File ID: PERFO_028PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 32 31−OCT−2009 22:43:47

Company Name:	Esso Australia Pty Ltd.
Well Name:	A−13a
Field Name:	Bream A
Tool String:	MWPT−CA, MWGT−AA
Computations:	WELLCAD, BORDYN

Error Summary File: **PERFO_028PUP** Sequence: **4**

No errors detected in file.

Well Site Data File: **PERFO_028PUP** Sequence: **4**

Origin: 91

Well Data

Company Name	Esso Australia Pty Ltd.		CN

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	28−Oct−2009		DATE
Run Number	2 through 6		RUN
Total Depth − Driller	2578.0 (m)		TDD
Total Depth − Logger	2578.0 (m)		TDL
Bottom Log Interval	2578.0 (m)		BLI
Top Log Interval	2200.0 (m)		TLI
Current Casing Size	4.50 (in)		CSIZ
Casing Depth From	2291.0 (m)		CDF
Casing Depth To	2682.0 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	12.6 (lbm/ft)		CWEI
Bit Size	6.00 (in)		BS
Bit Size Depth From	2455.0 (m)		BSDF
Bit Size Depth To	2733.0 (m)		BSDT
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom 14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.		ENGI
Witness's Name	B White		WITN
Service Order Number	B297−00017		SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	210.0 (degF)		MRT
	210.0 (degF)		MRT1
Date Logger At Bottom	28−Oct−2009	Time Logger At Bottom 14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572.5m MDKB and then dump approx 1m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R6
Top Shot @ 2564 m MDKB	R7
CCL to Top Shot = 4 m	R8
CCL Stop Depth = 2560 m MDKB	R9
CCL to Bottom of Dummy Plug = 3.15m	R10
4.5" Posiset Plug top of Seal Set @ 2572m MDKB	R12
CCL to Top of Seal = 6.65 m	R13
CCL stop Depth = 2569.35m MDKB	R14
1.2m of Cement dumped in 1 Run.	R15
Crew : J Annear , A Pratt	R17

Other Services

RST Survey	OS1

Frame Summary File: **PERFO_028PUP** Sequence: **4**

Origin: 91

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2573.88 m	2193.65 m	−60.0 (0.1 in) up	22	TDEP	60B
	8444.50 ft	7197.00 ft				
BOREHOLE−DEPTH	2573.88 m	2193.82 m	−10.0 (0.1 in) up	10	TDEP;1	10B
	8444.50 ft	7197.58 ft				

File Header File: **MPBT_042PUP** Sequence: **5**

Defining Origin: 41

File ID: MPBT_042PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 44 1−NOV−2009 1:27:12

Company Name: Esso Australia Pty Ltd.
Well Name: A−13a
Field Name: Bream A
Tool String: MPEX−AA, MPSU−BA, CCL−PCC
Computations: WELLCAD

Error Summary File: **MPBT_042PUP** Sequence: **5**

No errors detected in file.

Well Site Data File: **MPBT_042PUP** Sequence: **5**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	31−Oct−2009	DATE
Run Number	2 through 6	RUN
Total Depth − Driller	2578.0 (m)	TDD
Total Depth − Logger	2575.0 (m)	TDL
Bottom Log Interval	2572.0 (m)	BLI
Top Log Interval	2200.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2291.0 (m)	CDF
Casing Depth To	2682.0 (m)	CADT
Casing Grade	L−80	CASG
Casing Weight	12.6 (lbm/ft)	CWEI

Bit Size	6.00 (in)			BS
Bit Size Depth From	2455.0 (m)			BSDF
Bit Size Depth To	2733.0 (m)			BSDT
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom	14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.			ENGI
Witness's Name	B White			WITN
Service Order Number	B297−00017			SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	206.0 (degF)			MRT
	206.0 (degF)			MRT1
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom	14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572m MDKB and then dump approx 1.2m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R6
Top Shot @ 2564 m MDKB	R7
CCL to Top Shot = 4 m	R8
CCL Stop Depth = 2560 m MDKB	R9
CCL to Bottom of Dummy Plug = 3.15m	R10
4.5" Posiset Plug top of Seal Set @ 2572m MDKB	R12
CCL to Top of Seal = 6.65 m	R13
CCL stop Depth = 2565.35m MDKB	R14
1.2m of Cement dumped in 1 Run.	R15
Crew : J Annear , A Pratt	R17

Other Services

RST Survey	OS1

Frame Summary File: **MPBT_042PUP** Sequence: **5**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2361.13 m	2262.07 m	−60.0 (0.1 in) up	7	TDEP	60B
	7746.50 ft	7421.50 ft				
BOREHOLE−DEPTH	2361.13 m	2262.10 m	−10.0 (0.1 in) up	4	TDEP;1	10B
	7746.50 ft	7421.58 ft				

File Header File: **MPBT_043PUP** Sequence: **6**

Defining Origin: 41

File ID: MPBT_043PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 45 1−NOV−2009 1:27:40

Company Name:	Esso Australia Pty Ltd.
Well Name:	A−13a
Field Name:	Bream A
Tool String:	MPEX−AA, MPSU−BA, CCL−PCC
Computations:	WELLCAD

Error Summary File: **MPBT_043PUP** Sequence: **6**

No errors detected in file.

No errors detected in file.

Well Site Data File: **MPBT_043PUP** Sequence: **6**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	31−Oct−2009		DATE
Run Number	2 through 6		RUN
Total Depth − Driller	2578.0 (m)		TDD
Total Depth − Logger	2575.0 (m)		TDL
Bottom Log Interval	2572.0 (m)		BLI
Top Log Interval	2200.0 (m)		TLI
Current Casing Size	4.50 (in)		CSIZ
Casing Depth From	2291.0 (m)		CDF
Casing Depth To	2682.0 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	12.6 (lbm/ft)		CWEI
Bit Size	6.00 (in)		BS
Bit Size Depth From	2455.0 (m)		BSDF
Bit Size Depth To	2733.0 (m)		BSDT
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom 14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.		ENGI
Witness's Name	B White		WITN
Service Order Number	B297−00017		SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	206.0 (degF)		MRT
	206.0 (degF)		MRT1
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom 14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572m MDKB and then dump approx 1.2m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R6
Top Shot @ 2564 m MDKB	R7
CCL to Top Shot = 4 m	R8
CCL Stop Depth = 2560 m MDKB	R9
CCL to Bottom of Dummy Plug = 3.15m	R10
4.5" Posiset Plug top of Seal Set @ 2572m MDKB	R12
CCL to Top of Seal = 6.65 m	R13

CCL to Top of Seal = 0.65 m R13
CCL stop Depth = 2565.35m MDKB R14
1.2m of Cement dumped in 1 Run. R15
Crew : J Annear , A Pratt R17

Other Services
RST Survey OS1

Frame Summary File: **MPBT_043PUP** Sequence: **6**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2565.35 m 8416.50 ft	2363.27 m 7753.50 ft	−60.0 (0.1 in) up	7	TDEP	60B
BOREHOLE−DEPTH	2565.35 m 8416.50 ft	2363.29 m 7753.58 ft	−10.0 (0.1 in) up	4	TDEP;1	10B

File Header File: **MPBT_038LUP** Sequence: **7**

Defining Origin: 41

File ID: MPBT_038LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 42 1−NOV−2009 1:10:26

Company Name: Esso Australia Pty Ltd.
Well Name: A−13a
Field Name: Bream A
Tool String: MPEX−AA, MPSU−BA, CCL−PCC
Computations: WELLCAD

Error Summary File: **MPBT_038LUP** Sequence: **7**

No errors detected in file.

Well Site Data File: **MPBT_038LUP** Sequence: **7**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	31−Oct−2009	DATE
Run Number	2 through 6	RUN
Total Depth − Driller	2578.0 (m)	TDD
Total Depth − Logger	2575.0 (m)	TDL
Bottom Log Interval	2572.0 (m)	BLI
Top Log Interval	2200.0 (m)	TLI
Current Casing Size	4.50 (in)	CSIZ
Casing Depth From	2291.0 (m)	CDF
Casing Depth To	2682.0 (m)	CADT
Casing Grade	L−80	CASG
Casing Weight	12.6 (lbm/ft)	CWEI
Bit Size	6.00 (in)	BS
Bit Size Depth From	2455.0 (m)	BSDF

Bit Size Depth To	2733.0 (m)			BSDT
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom	14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.			ENGI
Witness's Name	B White			WITN
Service Order Number	B297−00017			SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	206.0 (degF)			MRT
	206.0 (degF)			MRT1
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom	14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572m MDKB and then dump approx 1.2m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R6
Top Shot @ 2564 m MDKB	R7
CCL to Top Shot = 4 m	R8
CCL Stop Depth = 2560 m MDKB	R9
CCL to Bottom of Dummy Plug = 3.15m	R10
4.5" Posiset Plug top of Seal Set @ 2572m MDKB	R12
CCL to Top of Seal = 6.65 m	R13
CCL stop Depth = 2565.35m MDKB	R14
1.2m of Cement dumped in 1 Run.	R15
Crew : J Annear , A Pratt	R17

Other Services

RST Survey	OS1

Frame Summary

File: **MPBT_038LUP** Sequence: **7**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	12192.00 m	11966.30 m	−60.0 (0.1 in) up	7	TDEP	60B
	40000.00 ft	39259.50 ft				
BOREHOLE−DEPTH	12192.00 m	11966.32 m	−10.0 (0.1 in) up	4	TDEP;1	10B
	40000.00 ft	39259.58 ft				

File Header

File: **PERFO_053LUP** Sequence: **8**

Defining Origin: 41

File ID: PERFO_053LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 55 1−NOV−2009 17:59:48

Company Name:	Esso Australia Pty Ltd.
Well Name:	A−13a
Field Name:	Bream A
Tool String:	SHM_GUN, CCL−L
Computations:	WELLCAD

Error Summary

File: **PERFO_053LUP** Sequence: **8**

No errors detected in file.

Well Site Data File: **PERFO_053LUP** Sequence: **8**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	31−Oct−2009		DATE
Run Number	2 through 6		RUN
Total Depth − Driller	2578.0 (m)		TDD
Total Depth − Logger	2575.0 (m)		TDL
Bottom Log Interval	2572.0 (m)		BLI
Top Log Interval	2200.0 (m)		TLI
Current Casing Size	4.50 (in)		CSIZ
Casing Depth From	2291.0 (m)		CDF
Casing Depth To	2682.0 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	12.6 (lbm/ft)		CWEI
Bit Size	6.00 (in)		BS
Bit Size Depth From	2455.0 (m)		BSDF
Bit Size Depth To	2733.0 (m)		BSDT
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom 14:10	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location AUSL / PROD 4	LUN, LUL
Engineer's Name	S Gilbert.		ENGI
Witness's Name	B White		WITN
Service Order Number	B297−00017		SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	206.0 (degF)		MRT
	206.0 (degF)		MRT1
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom 14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572m MDKB and then dump approx 1.2m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R6
Top Shot @ 2564 m MDKB	R7
CCL to Top Shot = 4 m	R8
CCL Stop Depth = 2560 m MDKB	R9
CCL to Bottom of Dummy Plug = 3.15m	R10
4.5" Posiset Plug top of Seal Set @ 2572m MDKB	R12

CCL to Top of Seal = 6.65 m R13
CCL stop Depth = 2565.35m MDKB R14
1.2m of Cement dumped in 1 Run. R15
Crew : J Annear , A Pratt R17

Other Services

RST Survey OS1

Frame Summary File: **PERFO_053LUP** Sequence: **8**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2561.84 m	2519.02 m	−60.0 (0.1 in) up	7	TDEP	60B
	8405.00 ft	8264.50 ft				
BOREHOLE−DEPTH	2561.84 m	2519.04 m	−10.0 (0.1 in) up	7	TDEP;1	10B
	8405.00 ft	8264.58 ft				

File Header File: **PERFO_056LUP** Sequence: **9**

Defining Origin: 41

File ID: PERFO_056LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 58 1−NOV−2009 19:44:35

Company Name: Esso Australia Pty Ltd.
Well Name: A−13a
Field Name: Bream A
Tool String: SHM_GUN, CCL−L
Computations: WELLCAD

Error Summary File: **PERFO_056LUP** Sequence: **9**

No errors detected in file.

Well Site Data File: **PERFO_056LUP** Sequence: **9**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	A−13a		WN
Field Name	Bream A		FN
Rig:	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Gippsland		FL
	Basin		FL1
	Bass Strait		FL2
Service Order Number	B297−00017		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	65.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	33.5 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 33.5 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	31−Oct−2009	DATE
Run Number	2 through 6	RUN
Total Depth − Driller	2578.0 (m)	TDD
Total Depth − Logger	2575.0 (m)	TDL
Bottom Log Interval	2572.0 (m)	BLI

Top Log Interval	2200.0 (m)			TLI
Current Casing Size	4.50 (in)			CSIZ
Casing Depth From	2291.0 (m)			CDF
Casing Depth To	2682.0 (m)			CADT
Casing Grade	L−80			CASG
Casing Weight	12.6 (lbm/ft)			CWEI
Bit Size	6.00 (in)			BS
Bit Size Depth From	2455.0 (m)			BSDF
Bit Size Depth To	2733.0 (m)			BSDT
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom 14:10		DLAB, TLAB
Logging Unit Number	889	Logging Unit Location AUSL / PROD 4		LUN, LUL
Engineer's Name	S Gilbert.			ENGI
Witness's Name	B White			WITN
Service Order Number	B297−00017			SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	206.0 (degF)		MRT
	206.0 (degF)		MRT1
Date Logger At Bottom	30−Oct−2009	Time Logger At Bottom 14:10	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.	R1
Maximum well deviation = 32deg @ 1968m MDKB.	R2
Objectives: Perforate the well using 2 1/8" Powerjet gun's over the interval 2564 m to 2566.5 m MDKB.	R3
Run 1 11/16" Dummy Plug to ensure access for Posiset Plug.	R4
Set 4.5" 12.6 lb/ft Posiset plug with Top of Seal at 2572m MDKB and then dump approx 1.2m of cement on top .	R5
Perforation Zone = 2564 m to 2566.5 m MDKB	R6
Top Shot @ 2564 m MDKB	R7
CCL to Top Shot = 4 m	R8
CCL Stop Depth = 2560 m MDKB	R9
CCL to Bottom of Dummy Plug = 3.15m	R10
4.5" Posiset Plug top of Seal Set @ 2572m MDKB	R12
CCL to Top of Seal = 6.65 m	R13
CCL stop Depth = 2565.35m MDKB	R14
1.2m of Cement dumped in 1 Run.	R15
Crew : J Annear , A Pratt	R17

Other Services

RST Survey	OS1

Frame Summary

File: **PERFO_056LUP** Sequence: **9**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2561.54 m	2517.50 m	−60.0 (0.1 in) up	7	TDEP	60B
	8404.00 ft	8259.50 ft				
BOREHOLE−DEPTH	2561.54 m	2517.52 m	−10.0 (0.1 in) up	7	TDEP;1	10B
	8404.00 ft	8259.58 ft				

Schlumberger **Verification Listing**

Listing Completed: 1−NOV−2009 19:58:26