Schlumberger Verification Listing

Listing Created: 11−NOV−2009 23:19:42

Input Source: D:\OP_Folder\Clients\Esso_2009\BMA_A3\CCLL\COMP_MWPT_MPBT_COMP_080.DLIS
Format: DLIS
Storage Set ID: Default Storage Set
Max Record Length: 8192
Storage Unit Sequence: 1

File Header File: **PERFO_023LUP** Sequence: **1**

Defining Origin: 41

File ID: PERFO_023LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 22 10−NOV−2009 20:14:30

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A3
Field Name: Bream A
Tool String: MWP_GUN, MWPT−CA, MWGT−A
Computations: WELLCAD, BORDYN

Error Summary File: **PERFO_023LUP** Sequence: **1**

No errors detected in file.

Well Site Data File: **PERFO_023LUP** Sequence: **1**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A3		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
Longitude	147 46’15"E		LONG
Latitude	038 30’04"S		LATI
Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	9−Nov−2009		DATE
Run Number	1 through 5		RUN
Total Depth − Driller	3438.0 (m)		TDD
Total Depth − Logger	3311.5 (m)		TDL
Bottom Log Interval	3287.0 (m)		BLI
Top Log Interval	3281.0 (m)		TLI
Current Casing Size	5.00 (in)		CSIZ
Casing Depth From	3114.0 (m)		CDF
Casing Depth To	3438.0 (m)		CADT
Casing Grade	N−80		CASG
Casing Weight	18.0 (lbm/ft)		CWEI
Bit Size	6.75 (in)		BS
Bit Size Depth From	3216.0 (m)		BSDF
Bit Size Depth To	3483.0 (m)		BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod4 / AUSL	LUN, LUL
Engineer’s Name	O Darby		ENGI
Witness’s Name	B White		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	209.0 (degF)			MRT
	209.0 (degF)			MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom	23:30	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 : 72 Deg @ 3414m, Average 52.3 Deg	R2
Objective:	R3
− Add perforations over the interval 3281.0m to 3278.0m MDKB using 2−1/8" 6 SP,	R4
45Deg phased PowerJet perfoating gun with MWPT.	R5
− Isolate the current Zone 3299.2m to 3320.8m MDKB by setting a 5" MPBT plug	R6
@ 3298m MDKB and dump bailing cement above plug.	R7
Before perforation	R9
BHT XXXX DegF, BHP XXXPisa	R10
After perforation	R11
BHT XXXX DegF, BHP XXXPsia	R12
Crew: Gary Martin & Daniel Halstead	R16

Other Services

None	OS1

Frame Summary File: **PERFO_023LUP** Sequence: **1**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	3292.60 m	3224.02 m	−60.0 (0.1 in) up	22	TDEP	60B
	10802.50 ft	10577.50 ft				
BOREHOLE−DEPTH	3292.60 m	3224.05 m	−10.0 (0.1 in) up	10	TDEP;1	10B
	10802.50 ft	10577.58 ft				

File Header File: **PERFO_024LUP** Sequence: **2**

Defining Origin: 41

File ID: PERFO_024LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 23 10−NOV−2009 20:23:42

Company Name:	Esso Australia Pty Ltd.
Well Name:	BMA A3
Field Name:	Bream A
Tool String:	MWP_GUN, MWPT−CA, MWGT−AA
Computations:	WELLCAD, BORDYN

Error Summary File: **PERFO_024LUP** Sequence: **2**

No errors detected in file.

Well Site Data File: **PERFO_024LUP** Sequence: **2**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	BMA A3	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
Longitude	147 46'15"E	LONG
Latitude	038 30'04"S	LATI
Maximum Hole Deviation	72.7 (deg)	MHD

Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	9−Nov−2009		DATE
Run Number	1 through 5		RUN
Total Depth − Driller	3438.0 (m)		TDD
Total Depth − Logger	3311.5 (m)		TDL
Bottom Log Interval	3287.0 (m)		BLI
Top Log Interval	3281.0 (m)		TLI
Current Casing Size	5.00 (in)		CSIZ
Casing Depth From	3114.0 (m)		CDF
Casing Depth To	3438.0 (m)		CADT
Casing Grade	N−80		CASG
Casing Weight	18.0 (lbm/ft)		CWEI
Bit Size	6.75 (in)		BS
Bit Size Depth From	3216.0 (m)		BSDF
Bit Size Depth To	3483.0 (m)		BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod4 / AUSL	LUN, LUL
Engineer's Name	O Darby		ENGI
Witness's Name	B White		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	209.0 (degF)		MRT
	209.0 (degF)		MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	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 : 72 Deg @ 3414m, Average 52.3 Deg	R2
Objective:	R3
− Add perforations over the interval 3281.0m to 3278.0m MDKB using 2−1/8" 6 SP,	R4
45Deg phased PowerJet perfoating gun with MWPT.	R5
− Isolate the current Zone 3299.2m to 3320.8m MDKB by setting a 5" MPBT plug	R6
@ 3298m MDKB and dump bailing cement above plug.	R7
Before perforation	R9
BHT XXXX DegF, BHP XXXPisa	R10
After perforation	R11
BHT XXXX DegF, BHP XXXPsia	R12
Crew: Gary Martin & Daniel Halstead	R16

Other Services

None	OS1

Frame Summary File: **PERFO_024LUP** Sequence: **2**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	3292.14 m	3223.26 m	−60.0 (0.1 in) up	22	TDEP	60B
	10801.00 ft	10575.00 ft				
BOREHOLE−DEPTH	3292.14 m	3223.29 m	−10.0 (0.1 in) up	10	TDEP;1	10B
	10801.00 ft	10575.08 ft				

File Header File: **PERFO_038PTP** Sequence: **3**

File Header File: **PERFO_028PTP** Sequence: **3**

Defining Origin: 41

File ID: PERFO_028PTP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 27 10−NOV−2009 21:39:30

Company Name:	Esso Australia Pty Ltd.
Well Name:	BMA A3
Field Name:	Bream A
Tool String:	MWP_GUN, MWPT−CA, MWGT−A
Computations:	WELLCAD, BORDYN

Error Summary File: **PERFO_028PTP** Sequence: **3**

No errors detected in file.

Well Site Data File: **PERFO_028PTP** Sequence: **3**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A3		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
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	9−Nov−2009		DATE
Run Number	1 through 5		RUN
Total Depth − Driller	3438.0 (m)		TDD
Total Depth − Logger	3311.5 (m)		TDL
Bottom Log Interval	3287.0 (m)		BLI
Top Log Interval	3281.0 (m)		TLI
Current Casing Size	5.00 (in)		CSIZ
Casing Depth From	3114.0 (m)		CDF
Casing Depth To	3438.0 (m)		CADT
Casing Grade	N−80		CASG
Casing Weight	18.0 (lbm/ft)		CWEI
Bit Size	6.75 (in)		BS
Bit Size Depth From	3216.0 (m)		BSDF
Bit Size Depth To	3483.0 (m)		BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod4 / AUSL	LUN, LUL
Engineer's Name	O Darby		ENGI
Witness's Name	B White		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	209.0 (degF)		MRT
	209.0 (degF)		MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	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 : 72 Deg @ 3414m, Average 52.3 Deg	R2
Objective:	R3
− Add perforations over the interval 3281.0m to 3278.0m MDKB using 2−1/8" 6 SP,	R4
45Deg phased PowerJet perfoating gun with MWPT.	R5
− Isolate the current Zone 3299.2m to 3320.8m MDKB by setting a 5" MPBT plug	R6
@ 3298m MDKB and dump bailing cement above plug.	R7
Before perforation	R9
BHT XXXX DegF, BHP XXXPisa	R10
After perforation	R11
BHT XXXX DegF, BHP XXXPsia	R12
Crew: Gary Martin & Daniel Halstead	R16

Other Services

None	OS1

Frame Summary File: **PERFO_028PTP** Sequence: **3**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
TIME	0.00	3272.00 s	2000.0 (0.5 ms)	7	TIME;2	2000T
TIME	0.00	3271.50 s	1000.0 (0.5 ms)	14	TIME;4	1000T
TIME	0.00	3271.75 s	500.0 (0.5 ms)	4	TIME;5	500T

File Header File: **PERFO_037PUP** Sequence: **4**

Defining Origin: 25

File ID: PERFO_037PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 36 10−NOV−2009 23:47:27

Company Name:	Esso Australia Pty Ltd.
Well Name:	BMA A3
Field Name:	Bream A
Tool String:	MWP_GUN, MWPT−CA, MWGT−AA
Computations:	WELLCAD, BORDYN

Error Summary File: **PERFO_037PUP** Sequence: **4**

No errors detected in file.

Well Site Data File: **PERFO_037PUP** Sequence: **4**

Origin: 25

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A3		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
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	9−Nov−2009	DATE
Run Number	1 through 5	RUN
Total Depth − Driller	3438.0 (m)	TDD

Total Depth − Driller	3438.0 (m)			TDD
Total Depth − Logger	3311.5 (m)			TDL
Bottom Log Interval	3287.0 (m)			BLI
Top Log Interval	3281.0 (m)			TLI
Current Casing Size	5.00 (in)			CSIZ
Casing Depth From	3114.0 (m)			CDF
Casing Depth To	3438.0 (m)			CADT
Casing Grade	N−80			CASG
Casing Weight	18.0 (lbm/ft)			CWEI
Bit Size	6.75 (in)			BS
Bit Size Depth From	3216.0 (m)			BSDF
Bit Size Depth To	3483.0 (m)			BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30		DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod4 / AUSL		LUN, LUL
Engineer's Name	O Darby			ENGI
Witness's Name	B White			WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	209.0 (degF)		MRT
	209.0 (degF)		MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	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 : 72 Deg @ 3414m, Average 52.3 Deg	R2
Objective:	R3
− Add perforations over the interval 3281.0m to 3278.0m MDKB using 2−1/8" 6 SP,	R4
45Deg phased PowerJet perfoating gun with MWPT.	R5
− Isolate the current Zone 3299.2m to 3320.8m MDKB by setting a 5" MPBT plug	R6
@ 3298m MDKB and dump bailing cement above plug.	R7
Before perforation	R9
BHT XXXX DegF, BHP XXXPisa	R10
After perforation	R11
BHT XXXX DegF, BHP XXXPsia	R12
Crew: Gary Martin & Daniel Halstead	R16

Other Services

None	OS1

Frame Summary File: **PERFO_037PUP** Sequence: **4**

Origin: 25

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	3300.98 m	3154.22 m	−60.0 (0.1 in) up	22	TDEP	60B
	10830.00 ft	10348.50 ft				
BOREHOLE−DEPTH	3300.98 m	3154.40 m	−10.0 (0.1 in) up	10	TDEP;1	10B
	10830.00 ft	10349.08 ft				

File Header File: **CCL_051LUP** Sequence: **5**

Defining Origin: 70

File ID: CCL_051LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 50 11−NOV−2009 3:37:39

Company Name:	Esso Australia Pty Ltd.
Well Name:	BMA A3
Field Name:	Bream A
Tool String:	MPEX−DA, MPSU−CA, CCL−PCC
Computations:	WELLCAD

Error Summary File: **CCL_051LUP** Sequence: **5**

No errors detected in file.

Well Site Data File: **CCL_051LUP** Sequence: **5**

Origin: 70

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A3		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
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	9−Nov−2009		DATE
Run Number	1 through 5		RUN
Total Depth − Driller	3438.0 (m)		TDD
Total Depth − Logger	3311.5 (m)		TDL
Bottom Log Interval	3287.0 (m)		BLI
Top Log Interval	3281.0 (m)		TLI
Current Casing Size	5.00 (in)		CSIZ
Casing Depth From	3114.0 (m)		CDF
Casing Depth To	3438.0 (m)		CADT
Casing Grade	N−80		CASG
Casing Weight	18.0 (lbm/ft)		CWEI
Bit Size	6.75 (in)		BS
Bit Size Depth From	3216.0 (m)		BSDF
Bit Size Depth To	3483.0 (m)		BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod4 / AUSL	LUN, LUL
Engineer's Name	O Darby		ENGI
Witness's Name	B White		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	209.0 (degF)		MRT
	209.0 (degF)		MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	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
Objective: Perforate the well using MWPT and a 3.5m − 6spf 45deg Phased	R2
Powerjet gun over the interval 3299.2m MDKB to 3302.7m MDKB .	R3
Maximum Well Deviation : 73deg @ 3414m MDKB	R4
H2s = 280ppm.	R5
Before Perforation− SBHP: 2621 psia SBHT: 206 degf	R6
After Perforation− SBHP: 2624 psia SBHT: 209 degf	R7
Prior to the perforation a 2 1/8" dummy plug was run	R8
to 3311.5m MDKB.	R9
A 5" HPI plug was then set @ 3305m MDKB	R10

A 5" HPI plug was then set @ 3305m MDRB R10
Crew : Jake Annear,Chris Shiells. R13

Other Services

RST−C Sigma OS1
5" HPI Plug OS2

Frame Summary File: **CCL_051LUP** Sequence: **5**

Origin: 70

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	12192.00 m 40000.00 ft	11915.09 m 39091.50 ft	−60.0 (0.1 in) up	7	TDEP	60B
BOREHOLE−DEPTH	12192.00 m 40000.00 ft	11914.96 m 39091.08 ft	−10.0 (0.1 in) up	4	TDEP;1	10B

File Header File: **CCL_057PUP** Sequence: **6**

Defining Origin: 70

File ID: CCL_057PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 55 11−NOV−2009 4:18:04

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A3
Field Name: Bream A
Tool String: MPEX−DA, MPSU−CA, CCL−PCC
Computations: WELLCAD

Error Summary File: **CCL_057PUP** Sequence: **6**

No errors detected in file.

Well Site Data File: **CCL_057PUP** Sequence: **6**

Origin: 70

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A3		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
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	9−Nov−2009	DATE
Run Number	1 through 5	RUN

Total Depth − Driller	3438.0 (m)			TDD
Total Depth − Logger	3311.5 (m)			TDL
Bottom Log Interval	3287.0 (m)			BLI
Top Log Interval	3281.0 (m)			TLI
Current Casing Size	5.00 (in)			CSIZ
Casing Depth From	3114.0 (m)			CDF
Casing Depth To	3438.0 (m)			CADT
Casing Grade	N−80			CASG
Casing Weight	18.0 (lbm/ft)			CWEI
Bit Size	6.75 (in)			BS
Bit Size Depth From	3216.0 (m)			BSDF
Bit Size Depth To	3483.0 (m)			BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30		DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod4 / AUSL		LUN, LUL
Engineer's Name	O Darby			ENGI
Witness's Name	B White			WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	209.0 (degF)		MRT
	209.0 (degF)		MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	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
Objective: Perforate the well using MWPT and a 3.5m − 6spf 45deg Phased	R2
Powerjet gun over the interval 3299.2m MDKB to 3302.7m MDKB .	R3
Maximum Well Deviation : 73deg @ 3414m MDKB	R4
H2s = 280ppm.	R5
Before Perforation− SBHP: 2621 psia SBHT: 206 degf	R6
After Perforation− SBHP: 2624 psia SBHT: 209 degf	R7
Prior to the perforation a 2 1/8" dummy plug was run	R8
to 3311.5m MDKB.	R9
A 5" HPI plug was then set @ 3305m MDKB	R10
Crew : Jake Annear,Chris Shiells.	R13

Other Services

RST−C Sigma	OS1
5" HPI Plug	OS2

Frame Summary File: **CCL_057PUP** Sequence: **6**

Origin: 70

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	3287.57 m	3246.42 m	−60.0 (0.1 in) up	7	TDEP	60B
	10786.00 ft	10651.00 ft				
BOREHOLE−DEPTH	3287.57 m	3246.45 m	−10.0 (0.1 in) up	4	TDEP;1	10B
	10786.00 ft	10651.08 ft				

File Header File: **PERFO_067PUP** Sequence: **7**

Defining Origin: 74

File ID: PERFO_067PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 65 11−NOV−2009 19:43:18

Company Name:	Esso Australia Pty Ltd.
Well Name:	BMA A3
Field Name:	Bream A
Tool String:	CCL−L, SHM_GUN
Computations:	WELLCAD, BORDYN

Error Summary File: **PERFO_067PUP** Sequence: **7**

No errors detected in file.

Well Site Data File: **PERFO_067PUP** Sequence: **7**

Origin: 74

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A3		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
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (m)	LMF, APD
Drilling Measured From	D.F		DMF

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

Job Data

Date as Month−Day−Year	9−Nov−2009		DATE
Run Number	1 through 5		RUN
Total Depth − Driller	3438.0 (m)		TDD
Total Depth − Logger	3311.5 (m)		TDL
Bottom Log Interval	3287.0 (m)		BLI
Top Log Interval	3281.0 (m)		TLI
Current Casing Size	5.00 (in)		CSIZ
Casing Depth From	3114.0 (m)		CDF
Casing Depth To	3438.0 (m)		CADT
Casing Grade	N−80		CASG
Casing Weight	18.0 (lbm/ft)		CWEI
Bit Size	6.75 (in)		BS
Bit Size Depth From	3216.0 (m)		BSDF
Bit Size Depth To	3483.0 (m)		BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location Prod4 / AUSL	LUN, LUL
Engineer's Name	O Darby		ENGI
Witness's Name	B White		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	209.0 (degF)		MRT
	209.0 (degF)		MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom 23:30	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 : 72 Deg @ 3414m, Average 52.3 Deg	R2

Objective: R3
− Add perforations over the interval 3281.0m to 3278.0m MDKB using 2−1/8" 6 SP, R4
45Deg phased PowerJet perfoating gun with MWPT. R5
− Isolate the current Zone 3299.2m to 3320.8m MDKB by setting a 5" MPBT plug R6
@ 3298m MDKB and dump bailing cement above plug. R7
Before perforation R9
BHT XXXX DegF, BHP XXXPisa R10
After perforation R11
BHT XXXX DegF, BHP XXXPsia R12
Crew: Gary Martin & Daniel Halstead R16

Other Services

None OS1

Frame Summary File: **PERFO_067PUP** Sequence: **7**

Origin: 74

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	3285.59 m	3190.04 m	−60.0 (0.1 in) up	11	TDEP	60B
	10779.50 ft	10466.00 ft				
BOREHOLE−DEPTH	3285.59 m	3190.06 m	−10.0 (0.1 in) up	7	TDEP;1	10B
	10779.50 ft	10466.08 ft				

File Header File: **PERFO_076PUP** Sequence: **8**

Defining Origin: 74

File ID: PERFO_076PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 17C0−154 File Set: 41 File Number: 74 11−NOV−2009 21:25:05

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A3
Field Name: Bream A
Tool String: CCL−L, SHM_GUN
Computations: WELLCAD, BORDYN

Error Summary File: **PERFO_076PUP** Sequence: **8**

No errors detected in file.

Well Site Data File: **PERFO_076PUP** Sequence: **8**

Origin: 74

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A3		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	B69I−00013		SON
Longitude	147 46'15"E		LONG
Latitude	038 30'04"S		LATI
Maximum Hole Deviation	72.7 (deg)		MHD
Elevation of Kelly Bushing	32.8 (m)		EKB
Elevation of Ground Level	−59.0 (m)		EGL
Elevation of Derrick Floor	32.8 (m)		EDF
Permanent Datum	M.S.L	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	D.F	Above Permanent Datum 32.8 (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	9−Nov−2009	DATE
Run Number	1 through 5	RUN
Total Depth − Driller	3438.0 (m)	TDD

Total Depth − Driller	3438.0 (m)			TDD
Total Depth − Logger	3001.8 (m)			TDL
Bottom Log Interval	3287.0 (m)			BLI
Top Log Interval	3281.0 (m)			TLI
Current Casing Size	5.00 (in)			CSIZ
Casing Depth From	3114.0 (m)			CDF
Casing Depth To	3438.0 (m)			CADT
Casing Grade	N−80			CASG
Casing Weight	18.0 (lbm/ft)			CWEI
Bit Size	6.75 (in)			BS
Bit Size Depth From	3216.0 (m)			BSDF
Bit Size Depth To	3483.0 (m)			BSDT
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom	23:30	DLAB, TLAB
Logging Unit Number	889	Logging Unit Location	Prod4 / AUSL	LUN, LUL
Engineer's Name	O Darby			ENGI
Witness's Name	G Rimmer			WITN
Service Order Number	B69I−00013			SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	202.4 (degF)			MRT
	202.4 (degF)			MRT1
Date Logger At Bottom	9−Nov−2009	Time Logger At Bottom	23:30	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 : 72 Deg @ 3414m, Average 52.3 Deg	R2
Objective:	R3
− Add perforations over the interval 3281.0m to 3278.0m MDKB using 2−1/8" 6 SP,	R4
45Deg phased PowerJet perfoating gun with MWPT.	R5
− Isolate the current Zone 3299.2m to 3320.8m MDKB by setting a 5" MPBT plug	R6
@ 3298m MDKB and dump bailing cement above plug.	R7
Before perforation	R9
BHT 201.9 DegF, BHP 2634.0Pisa	R10
After perforation	R11
BHT 202.4DegF, BHP 2632.9Psia	R12
Crew: Gary Martin & Daniel Halstead	R16

Other Services

None	OS1

Frame Summary

File: **PERFO_076PUP** Sequence: **8**

Origin: 74

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	3285.13 m	3189.12 m	−60.0 (0.1 in) up	11	TDEP	60B
	10778.00 ft	10463.00 ft				
BOREHOLE−DEPTH	3285.13 m	3189.15 m	−10.0 (0.1 in) up	7	TDEP;1	10B
	10778.00 ft	10463.08 ft				

Schlumberger **Verification Listing**

Listing Completed: 11−NOV−2009 23:19:42