Schlumberger Verification Listing

Listing Created: 5−FEB−2006 7:39:03
Version: 13C0−300

Input Source: D:\OP_Folder\Clients\ExxonMobil\HLA_A3a\GUN\COMP_MWPT_COMP_072.DLIS
Format: DLIS
Storage Set ID: Default Storage Set
Max Record Length: 8192
Storage Unit Sequence: 1

File Header File: **PERFO_015LUP** Sequence: **1**

Defining Origin: 100

File ID: PERFO_015LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 13C0−300 File Set: 41 File Number: 14 3−FEB−2006 17:36:09

Company Name:	Esso Australia Ltd.
Well Name:	A−3A
Field Name:	Halibut
Tool String:	MWP_GUN, MWPT−CA, MWGT−AA
Computations:	WELLCAD

Error Summary File: **PERFO_015LUP** Sequence: **1**

No errors detected in file.

Well Site Data File: **PERFO_015LUP** Sequence: **1**

Origin: 100

Well Data

Company Name	Esso Australia Ltd.		CN
Well Name	A−3A		WN
Field Name	Halibut		FN
Rig :	Prod4 / 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	038 24'20.36" S		LATI
Maximum Hole Deviation	66.3 (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	D.F	Above Permanent Datum 29.5 (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	28−Jan−2006		DATE
Run Number	1		RUN
Total Depth − Driller	2919.0 (m)		TDD
Total Depth − Logger	2830.5 (m)		TDL
Bottom Log Interval	2784.5 (m)		BLI
Top Log Interval	2782.5 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	13.0 (m)		CDF
Casing Depth To	2944.5 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	26.0 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Bit Size Depth From	615.7 (m)		BSDF
Bit Size Depth To	2952.0 (m)		BSDT
Date Logger At Bottom	28−Jan−2006	Time Logger At Bottom 19:00	DLAB, TLAB
Logging Unit Number	1	Logging Unit Location Prod 4 / Crane	LUN, LUL
Engineer's Name	Graham Fraser		ENGI
Witness's Name	Mr. Greg Rimmer		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Maximum Recorded Temperature	104.0 (degC)			MRT
	104.0 (degC)			MRT1
Date Logger At Bottom	28−Jan−2006	Time Logger At Bottom	19:00	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 objective: Perforate one 2m interval with Phased Enerjet gun.	R1
Guns used: 2−1/8" Powerjet 6 SPF Phased Enerjet	R2
Correlated to reference log:	R4
1−DEC−2003, "Correlation Log" , ExxonMobil	R5
Shooting interval was 2782.5m to 2784.5m MDKB	R7
CCL to Top Shot was 3.5m	R8
At CCL Stop Depth of 2779 MDKB, measurements were:	R10
− before perforation: Tmax = 224 degF ; Pmax = 2580 psia	R11
− after perforation: Tmax = 229 degF ; Pmax = 3222 psia	R12
TD was not tagged during this run.	R14
Crew: J. Annear and B. Blynn.	R16
Thank you for choosing Schlumberger.	R17

Other Services

None	OS1

Frame Summary File: **PERFO_015LUP** Sequence: **1**

Origin: 100

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2956.56 m	2737.87 m	−60.0 (0.1 in) up	20	TDEP	60B
	9700.00 ft	8982.50 ft				
BOREHOLE−DEPTH	2956.56 m	2737.89 m	−10.0 (0.1 in) up	9	TDEP;1	10B
	9700.00 ft	8982.58 ft				

File Header File: **PERFO_047LUP** Sequence: **2**

Defining Origin: 103

File ID: PERFO_047LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 13C0−300 File Set: 41 File Number: 46 4−FEB−2006 16:53:05

Company Name:	Esso Australia Ltd.
Well Name:	A−3A
Field Name:	Halibut
Tool String:	MWP_GUN, MWPT−CA, MWGT−AA
Computations:	WELLCAD

Error Summary File: **PERFO_047LUP** Sequence: **2**

No errors detected in file.

Well Site Data File: **PERFO_047LUP** Sequence: **2**

Origin: 103

Well Data

Company Name	Esso Australia Ltd.	CN
Well Name	A−3A	WN
Field Name	Halibut	FN
Rig :	Prod4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Halibut	FL
	Gippsland Basin	FL1
	Bass Strait	FL2
Longitude	148 19'07.62"E	LONG
Latitude	38 24'20.36" S	LATI
Maximum Hole Deviation	54.0 (deg)	MHD

Maximum Hole Deviation	54.0 (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	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Kelly Bushing	Above Permanent Datum 29.5 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

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

Job Data

Date as Month−Day−Year	4−Feb−2006		DATE
Run Number	1		RUN
Total Depth − Driller	2919.0 (m)		TDD
Total Depth − Logger	2830.5 (m)		TDL
Bottom Log Interval	2954.9 (m)		BLI
Top Log Interval	2951.7 (m)		TLI
Current Casing Size	7.63 (in)		CSIZ
Casing Depth From	11.7 (m)		CDF
Casing Depth To	3103.8 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	26.4 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Bit Size Depth From	11.7 (m)		BSDF
Bit Size Depth To	3103.8 (m)		BSDT
Date Logger At Bottom	4−Feb−2006		DLAB
Logging Unit Number	1	Logging Unit Location Prod 4 / Crane	LUN, LUL
Engineer's Name	Graham Fraser, Owen Darby		ENGI
Witness's Name	Greg Rimmer		WITN

Absent Valued Parameters: TLAB, SON

Mud Data

Drilling Fluid Type	Production Fluids	DFT
Maximum Recorded Temperature	219.2 (degC)	MRT
	219.2 (degC)	MRT1
Date Logger At Bottom	4−Feb−2006	DLAB

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

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

Correlated to Esso Solar log, date unknown, provided	R1
by client.	R2
Objective:	R3
To perforate well A3a at 2951.7 − 2954.9 MDKB using	R4
one 3.2m 2 1/8" Enerjet gun loaded with Power Spiral charges.	R5
Before perforating obtain static BHT and BHP, After Perforating	R6
Monitor well for 15 min and obtain BHT and BHP	R7
Static : BHP = XXXXpsia, BHT = XXXDegF	R8
After Perforation : BHP = XXX psia, BHT = XXX DegF	R9
API Data : Power Spiral charges,	R11
Pentration : 27.2 "	R12
Entrance Hole : 0.32 "	R13
CCL to top shot : 3.3m, CCL to gun bottom 6.8m	R14
CCL stop depth: 2948.4 MDKB	R15
Crew : J.Annear and B. Flynn	R17

Other Services

None	OS1

Frame Summary File: **PERFO_047LUP** Sequence: **2**

Origin: 103

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2953.05 m	2885.39 m	−60.0 (0.1 in) up	20	TDEP	60B
	9688.50 ft	9466.50 ft				
BOREHOLE−DEPTH	2953.05 m	2885.41 m	−10.0 (0.1 in) up	9	TDEP;1	10B
	9688.50 ft	9466.58 ft				

File Header File: **PERFO_048LUP** Sequence: **3**

File Header File: **PERFO_049LUP** Sequence: **3**

Defining Origin: 103

File ID: PERFO_049LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 13C0−300 File Set: 41 File Number: 48 4−FEB−2006 17:08:38

Company Name:	Esso Australia Ltd.
Well Name:	A−3A
Field Name:	Halibut
Tool String:	MWP_GUN, MWPT−CA, MWGT−A
Computations:	WELLCAD

Error Summary File: **PERFO_049LUP** Sequence: **3**

No errors detected in file.

Well Site Data File: **PERFO_049LUP** Sequence: **3**

Origin: 103

Well Data

Company Name	Esso Australia Ltd.		CN
Well Name	A−3A		WN
Field Name	Halibut		FN
Rig :	Prod4 / Crane		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Halibut		FL
	Gippsland Basin		FL1
	Bass Strait		FL2
Longitude	148 19'07.62"E		LONG
Latitude	38 24'20.36" S		LATI
Maximum Hole Deviation	54.0 (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	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Kelly Bushing	Above Permanent Datum 29.5 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

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

Job Data

Date as Month−Day−Year	4−Feb−2006		DATE
Run Number	1		RUN
Total Depth − Driller	2919.0 (m)		TDD
Total Depth − Logger	2830.5 (m)		TDL
Bottom Log Interval	2954.9 (m)		BLI
Top Log Interval	2951.7 (m)		TLI
Current Casing Size	7.63 (in)		CSIZ
Casing Depth From	11.7 (m)		CDF
Casing Depth To	3103.8 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	26.4 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Bit Size Depth From	11.7 (m)		BSDF
Bit Size Depth To	3103.8 (m)		BSDT
Date Logger At Bottom	4−Feb−2006		DLAB
Logging Unit Number	1	Logging Unit Location Prod 4 / Crane	LUN, LUL
Engineer's Name	Graham Fraser, Owen Darby		ENGI
Witness's Name	Greg Rimmer		WITN

Absent Valued Parameters: TLAB, SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	219.2 (degC)		MRT
	219.2 (degC)		MRT1
Date Logger At Bottom	4−Feb−2006		DLAB

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

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

Correlated to Esso Solar log, date unknown, provided	R1
by client.	R2
Objective:	R3
To perforate well A3a at 2951.7 − 2954.9 MDKB using	R4
one 3.2m 2 1/8" Enerjet gun loaded with Power Spiral charges.	R5
Before perforating obtain static BHT and BHP, After Perforating	R6
Monitor well for 15 min and obtain BHT and BHP	R7
Static : BHP = XXXXpsia, BHT = XXXDegF	R8
After Perforation : BHP = XXX psia, BHT = XXX DegF	R9
API Data : Power Spiral charges,	R11
Pentration : 27.2 "	R12
Entrance Hole : 0.32 "	R13
CCL to top shot : 3.3m, CCL to gun bottom 6.8m	R14
CCL stop depth: 2948.4 MDKB	R15
Crew : J.Annear and B. Flynn	R17

Other Services

None OS1

Frame Summary File: **PERFO_049LUP** Sequence: **3**

Origin: 103

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2952.75 m	2857.04 m	−60.0 (0.1 in) up	20	TDEP	60B
	9687.50 ft	9373.50 ft				
BOREHOLE−DEPTH	2952.75 m	2857.07 m	−10.0 (0.1 in) up	9	TDEP;1	10B
	9687.50 ft	9373.58 ft				

File Header File: **PERFO_050LTP** Sequence: **4**

Defining Origin: 103

File ID: PERFO_050LTP File Type: STATION
Producer Name: Schlumberger Product/Version: OP 13C0−300 File Set: 41 File Number: 49 4−FEB−2006 17:09:46

Company Name:	Esso Australia Ltd.
Well Name:	A−3A
Field Name:	Halibut
Tool String:	MWP_GUN, MWPT−CA, MWGT−AA
Computations:	WELLCAD

Error Summary File: **PERFO_050LTP** Sequence: **4**

No errors detected in file.

Well Site Data File: **PERFO_050LTP** Sequence: **4**

Origin: 103

Well Data

Company Name	Esso Australia Ltd.	CN
Well Name	A−3A	WN
Field Name	Halibut	FN
Rig :	Prod4 / Crane	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Halibut	FL
	Gippsland Basin	FL1
	Bass Strait	FL2
Longitude	148 19'07.62"E	LONG
Latitude	38 24'20.36" S	LATI

Maximum Hole Deviation	54.0 (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	Mean Sea Level	Elevation of Permanent Datum	0.0 (m)	PDAT, EPD
Log Measured From	Kelly Bushing	Above Permanent Datum	29.5 (m)	LMF, APD
Drilling Measured From	Kelly Bushing			DMF

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

Job Data

Date as Month−Day−Year	4−Feb−2006			DATE
Run Number	1			RUN
Total Depth − Driller	2919.0 (m)			TDD
Total Depth − Logger	2830.5 (m)			TDL
Bottom Log Interval	2954.9 (m)			BLI
Top Log Interval	2951.7 (m)			TLI
Current Casing Size	7.63 (in)			CSIZ
Casing Depth From	11.7 (m)			CDF
Casing Depth To	3103.8 (m)			CADT
Casing Grade	L−80			CASG
Casing Weight	26.4 (lbm/ft)			CWEI
Bit Size	8.50 (in)			BS
Bit Size Depth From	11.7 (m)			BSDF
Bit Size Depth To	3103.8 (m)			BSDT
Date Logger At Bottom	4−Feb−2006			DLAB
Logging Unit Number	1	Logging Unit Location	Prod 4 / Crane	LUN, LUL
Engineer's Name	Graham Fraser, Owen Darby			ENGI
Witness's Name	Greg Rimmer			WITN

Absent Valued Parameters: TLAB, SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Maximum Recorded Temperature	219.2 (degC)		MRT
	219.2 (degC)		MRT1
Date Logger At Bottom	4−Feb−2006		DLAB

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

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

Correlated to Esso Solar log, date unknown, provided	R1
by client.	R2
Objective:	R3
To perforate well A3a at 2951.7 − 2954.9 MDKB using	R4
one 3.2m 2 1/8" Enerjet gun loaded with Power Spiral charges.	R5
Before perforating obtain static BHT and BHP, After Perforating	R6
Monitor well for 15 min and obtain BHT and BHP	R7
Static : BHP = XXXXpsia, BHT = XXXDegF	R8
After Perforation : BHP = XXX psia, BHT = XXX DegF	R9
API Data : Power Spiral charges,	R11
Pentration : 27.2 "	R12
Entrance Hole : 0.32 "	R13
CCL to top shot : 3.3m, CCL to gun bottom 6.8m	R14
CCL stop depth: 2948.4 MDKB	R15
Crew : J.Annear and B. Flynn	R17

Other Services

None	OS1

Frame Summary

File: **PERFO_050LTP** Sequence: **4**

Origin: 103

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
TIME	1984.83	2247.83 s	2000.0 (0.5 ms)	5	TIME;2	2000T
TIME	1984.83	2248.33 s	1000.0 (0.5 ms)	14	TIME;3	1000T
TIME	1984.83	2248.33 s	500.0 (0.5 ms)	4	TIME;4	500T