

Input Source: D:\OP_Folder\Clients\Essco_2009\FTA_A4C\RSTC\COMP_FTA_A4C_COMP_052.DLIS
Format: DLIS
Storage Set ID: Default Storage Set

Max Record Length: 8192
Storage Unit Sequence: 1

File Header

File: **RST_PSP_031LUP** Sequence: **1**

Defining Origin: 83

File ID: RST_PSP_031LUP File Type: DEPTH LOG

Producer Name: Schlumberger Product/Version: OP 16C0-147 File Set: 41 File Number: 30 29-JUL-2009 19:43:22

Company Name: Esso Australia Pty Ltd.
Well Name: A-4C
Field Name: Fortescue
Tool String: RST-C, PSPT-E
Computations: WELLCAD, BORDYN

Error Summary

File: **RST_PSP_031LUP** Sequence: **1**

No errors detected in file.

Well Site Data

File: **RST_PSP_031LUP** Sequence: **1**

Origin: 83

Well Data

| | | |
|----------------------------|-------------------------|------------|
| Company Name | Esso Australia Pty Ltd. | CN |
| Well Name | A-4C | WN |
| Field Name | Fortescue | FN |
| Rig: | Crane / Prod 4 | CLAB, COUN |
| State: | Victoria | SLAB, STAT |
| Nation | Australia | NATI |
| Field Location | Gippsland | FL |
| | Basin | FL1 |
| | Bass Strait | FL2 |
| Service Order Number | B69U-00008 | SON |
| Longitude | 148 16 36.62 E | LONG |
| Latitude | 038 24 31.39 S | LATI |
| Maximum Hole Deviation | 61.0 (deg) | MHD |
| Elevation of Kelly Bushing | 138.7 (ft) | EKB |
| Elevation of Ground Level | -226.4 (ft) | EGL |
| Elevation of Derrick Floor | 138.7 (ft) | EDF |
| Permanent Datum | M.S.L | PDAT, EPD |
| Log Measured From | D.F | 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-Jul-2009 | DATE |
| Run Number | One | RUN |
| Total Depth - Driller | 10570.9 (ft) | TDD |
| Total Depth - Logger | 10495.4 (ft) | TDL |
| Bottom Log Interval | 10495.4 (ft) | BLI |
| Top Log Interval | 10367.5 (ft) | TLI |
| Current Casing Size | 7.00 (in) | CSIZ |
| Casing Depth From | 73.6 (ft) | CDF |
| Casing Depth To | 10838.6 (ft) | CADT |
| Casing Grade | L-80 | CASG |
| Casing Weight | 26.0 (lbm/ft) | CWEI |
| Bit Size | 8.50 (in) | BS |
| Bit Size Depth From | 6787.7 (ft) | BSDF |
| Bit Size Depth To | 10872.7 (ft) | BSDT |
| Date Logger At Bottom | 28-Jul-2009 | DLAB, TLAB |
| Logging Unit Number | 889 | LUN, LUL |
| Engineer's Name | B.Donahoe, B.Parker | ENGI |
| Witness's Name | G Rimmer | WITN |
| Service Order Number | B69U-00008 | SON |

Mud Data

| | | | |
|---|-------------------|-----------------------|------------|
| Mud Data | | | DFT |
| Drilling Fluid Type | Production Fluids | | MRT |
| Maximum Recorded Temperature | 220.0 (degF) | | MRT1 |
| | 220.0 (degF) | | DLAB, TLAB |
| Date Logger At Bottom | 28-Jul-2009 | Time Logger At Bottom | 10:18 |
| 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 | | | |
| Objective: Conduct RST-C Sigma Survey over the interval HUD(3222m MDKB) to 3160m MDKB | | | R1 |
| Making 1 Static Pass and 2 Flowing Pass at 900ft/hr | | | R2 |
| Log Correlated to ExxonMobil Solar Composite Log Supplied with Logging Program . | | | R3 |
| Maximum Well Deviation: 61deg @ 2075m MDKB | | | R4 |
| HUD: | | | R5 |
| SBHT: dgef | | | R6 |
| SBHP: psia | | | R7 |
| FBHT: degf | | | R8 |
| FBHP: psia | | | R9 |
| Schlumberger Crew : Rick Murray, Dan Halsted | | | R17 |
| Other Services | | | |
| 7" Posiset Plug | | | OS1 |
| 2 1/8" Powerjet | | | OS2 |
| Perforation | | | OS3 |

| | | | | | | |
|---|--------------|-------------|-------------------|-----------------|----------------------|-------------------|
| Frame Summary File: RST_PSP_031LUP Sequence: 1 | | | | | | |
| Origin: 83 | | | | | | |
| <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 | 3196.44 | 3145.54 m | -60.0 (0.1 in) up | 128 | TDEP | 60B |
| | 10487.00 | 10320.00 ft | | | | |
| BOREHOLE-DEPTH | 3196.44 | 3145.56 m | -10.0 (0.1 in) up | 7 | TDEP,1 | 10B |
| | 10487.00 | 10320.08 ft | | | | |

| | | | |
|--|-------------------------|------------------------------|---|
| File Header | | File: RST_PSP_032LUP | Sequence: 2 |
| Defining Origin: 83 | | | |
| File ID: RST_PSP_032LUP File Type: DEPTH LOG | | | |
| Producer Name: Schlumberger | | Product/Version: OP 16C0-147 | File Set: 41 File Number: 31 29-JUL-2009 19:56:03 |
| Company Name: | Esso Australia Pty Ltd. | | |
| Well Name: | A-4C | | |
| Field Name: | Fortescue | | |
| Tool String: | RST-C, PSPT-E | | |
| Computations: | WELLCAD, BORDYN | | |

| | |
|---|--|
| Error Summary File: RST_PSP_032LUP Sequence: 2 | |
| No errors detected in file. | |

| | |
|--|--|
| Well Site Data File: RST_PSP_032LUP Sequence: 2 | |
| Origin: 83 | |

Well Data

| | | |
|----------------------------|---------------------------------------|------------|
| Company Name | Esso Australia Pty Ltd. | CN |
| Well Name | A-4C | WN |
| Field Name | Fortescue | FN |
| Rig: | Crane / Prod 4 | CLAB, COUN |
| State: | Victoria | SLAB, STAT |
| Nation | Australia | NATI |
| Field Location | Gippsland | FL |
| | Basin | FL1 |
| | Bass Strait | FL2 |
| Service Order Number | B69U-00008 | SON |
| Longitude | 148 16 36.62 E | LONG |
| Latitude | 038 24 31.39 S | LATI |
| Maximum Hole Deviation | 61.0 (deg) | MHD |
| Elevation of Kelly Bushing | 138.7 (ft) | EKB |
| Elevation of Ground Level | -226.4 (ft) | EGL |
| Elevation of Derrick Floor | 138.7 (ft) | EDF |
| Permanent Datum | M.S.L | PDAT, EPD |
| Log Measured From | D.F | LMF, APD |
| Drilling Measured From | D.F | DMF |
| | Elevation of Permanent Datum 0.0 (ft) | |
| | Above Permanent Datum 138.7 (ft) | |

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

Job Data

| | | |
|------------------------|-------------------------------------|------------|
| Date as Month-Day-Year | 28-Jul-2009 | DATE |
| Run Number | One | RUN |
| Total Depth - Driller | 10570.9 (ft) | TDD |
| Total Depth - Logger | 10495.4 (ft) | TDL |
| Bottom Log Interval | 10495.4 (ft) | BLI |
| Top Log Interval | 10367.5 (ft) | TLI |
| Current Casing Size | 7.00 (in) | CSIZ |
| Casing Depth From | 73.6 (ft) | CDF |
| Casing Depth To | 10838.6 (ft) | CADT |
| Casing Grade | L-80 | CASG |
| Casing Weight | 26.0 (lbm/ft) | CWEI |
| Bit Size | 8.50 (in) | BS |
| Bit Size Depth From | 6787.7 (ft) | BSDF |
| Bit Size Depth To | 10872.7 (ft) | BSDT |
| Date Logger At Bottom | 28-Jul-2009 | DLAB, TLAB |
| Logging Unit Number | 889 | LUN, LUL |
| Engineer's Name | B.Donahoe, B.Parker | ENGI |
| Witness's Name | G Rimmer | WITN |
| Service Order Number | B69U-00008 | SON |
| | Time Logger At Bottom 10:18 | |
| | Logging Unit Location Prod 4 / AUSL | |

Mud Data

| | | |
|------------------------------|-----------------------------|------------|
| Drilling Fluid Type | Production Fluids | DFT |
| Maximum Recorded Temperature | 220.0 (degF) | MRT |
| | 220.0 (degF) | MRT1 |
| Date Logger At Bottom | 28-Jul-2009 | DLAB, TLAB |
| | Time Logger At Bottom 10:18 | |

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

| | |
|---|-----|
| Objective: Conduct RST-C Sigma Survey over the interval HUD(3222m MDKB) to 3160m MDKB | R1 |
| Making 1 Static Pass and 2 Flowing Pass at 900ft/hr | R2 |
| Log Correlated to ExxonMobil Solar Composite Log Supplied with Logging Program . | R3 |
| Maximum Well Deviation: 61deg @ 2075m MDKB | R4 |
| HUD: | R5 |
| SBHT: dgef | R6 |
| SBHP: psia | R7 |
| FBHT: degf | R8 |
| FBHP: psia | R9 |
| Schlumberger Crew : Rick Murray, Dan Halsted | R17 |

Other Services

| | |
|-----------------|-----|
| 7" Posiset Plug | OS1 |
| 2 1/8" Powerjet | OS2 |
| Perforation | OS3 |

| Index Type | Start | Stop | Spacing | Channels | Index Channel | Frame Name |
|----------------|----------|-------------|-------------------|----------|---------------|------------|
| BOREHOLE-DEPTH | 3195.68 | 3147.21 m | -60.0 (0.1 in) up | 128 | TDEP | 60B |
| | 10484.50 | 10325.50 ft | | | | |
| BOREHOLE-DEPTH | 3195.68 | 3147.24 m | -10.0 (0.1 in) up | 7 | TDEP;1 | 10B |
| | 10484.50 | 10325.58 ft | | | | |

File ID: RST_PSP_051PUP File Type: PLAYBACK
 Producer Name: Schlumberger Product/Version: OP 16C0-147 File Set: 41 File Number: 50 1-AUG-2009 12:55:08
 Company Name: Esso Australia Pty Ltd.
 Well Name: A-4C
 Field Name: Fortescue
 Tool String: RST-C, PSPT-E
 Computations: WELLCAD, BORDYN

No errors detected in file.

| | | |
|------------------------|---------------|------|
| Date as Month-Day-Year | 28-Jul-2009 | DATE |
| Run Number | One | RUN |
| Total Depth – Driller | 3314.0 (m) | TDD |
| Total Depth – Logger | 3192.5 (m) | TDL |
| Bottom Log Interval | 3192.5 (m) | BLI |
| Top Log Interval | 3160.0 (m) | TLI |
| Current Casing Size | 7.00 (in) | CSIZ |
| Casing Depth From | 22.4 (m) | CDF |
| Casing Depth To | 3303.6 (m) | CADT |
| Casing Grade | L-80 | CASG |
| Casing Weight | 26.0 (lbm/ft) | CWEI |
| Bit Size | 8.50 (in) | BS |

| | | | | |
|--|---------------------|-----------------------|---------------|------------|
| Bit Size Depth From | 2068.9 (m) | | | BSDF |
| Bit Size Depth To | 3314.0 (m) | | | BSDT |
| Date Logger At Bottom | 28-Jul-2009 | Time Logger At Bottom | 8:00 | DLAB, TLAB |
| Logging Unit Number | 889 | Logging Unit Location | Prod 4 / AUSL | LUN, LUL |
| Engineer's Name | B.Donahoe, B.Parker | | | ENGI |
| Witness's Name | G Rimmer | | | WITN |
| Service Order Number | B69U-00008 | | | SON |
| Mud Data | | | | |
| Drilling Fluid Type | Production Fluids | | | DFT |
| Maximum Recorded Temperature | 220.0 (degF) | | | MRT |
| | 220.0 (degF) | | | MRT1 |
| Date Logger At Bottom | 28-Jul-2009 | Time Logger At Bottom | 8:00 | 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 Solar Composite Log, Supplied with Logging Program . | | | | R1 |
| Objectives: RIH with RST and tag HUD (3192.5m MDKB). Complete two static passes over interval 3192.5m – 3160m MDKB at 900ft/hr | | | | R2 |
| Maximum Well Deviation: 59deg @ 1377m MDKB. | | | | R3 |
| Maximum recorded temperature 224 degF @ 3192.5m MDKB. | | | | R4 |
| Bottom hole pressure recorded 3090 psia. | | | | R5 |
| Schlumberger Crew : Rick Murray, Dan Halsted | | | | R17 |

| | | | | | | |
|---|--------------|-------------|-------------------|-----------------|----------------------|-------------------|
| Frame Summary File: RST_PSP_051PUP Sequence: 3 | | | | | | |
| Origin: 83 | | | | | | |
| <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 | 3198.27 | 3153.61 m | -60.0 (0.1 in) up | 168 | TDEP | 60B |
| | 10493.00 | 10346.50 ft | | | | |
| BOREHOLE-DEPTH | 3198.27 | 3153.64 m | -10.0 (0.1 in) up | 7 | TDEP;1 | 10B |
| | 10493.00 | 10346.58 ft | | | | |

| | | | |
|--|-------------------------|------------------------------|----------------------|
| File Header | | File: RST_PSP_041LUP | Sequence: 4 |
| Defining Origin: 83 | | | |
| File ID: RST_PSP_041LUP File Type: DEPTH LOG | | | |
| Producer Name: Schlumberger | | Product/Version: OP 16C0-147 | File Set: 41 |
| | | File Number: 40 | 29-JUL-2009 20:48:57 |
| Company Name: | Esso Australia Pty Ltd. | | |
| Well Name: | A-4C | | |
| Field Name: | Fortescue | | |
| Tool String: | RST-C, PSPT-E | | |
| Computations: | WELLCAD, BORDYN | | |

| | | | | | | |
|---|--|--|--|--|--|--|
| Error Summary File: RST_PSP_041LUP Sequence: 4 | | | | | | |
| No errors detected in file. | | | | | | |

| | | | | | | |
|--|-------------------------|--|--|--|--|--|
| Well Site Data File: RST_PSP_041LUP Sequence: 4 | | | | | | |
| Origin: 83 | | | | | | |
| Well Data | | | | | | |
| Company Name | Esso Australia Pty Ltd. | | | | | |

| | | |
|---------------------------------------|-------------------------|------------|
| Company Name | Esso Australia Pty Ltd. | CN |
| Well Name | A-4C | WN |
| Field Name | Fortescue | FN |
| Rig: | Crane / Prod 4 | CLAB, COUN |
| State: | Victoria | SLAB, STAT |
| Nation | Australia | NATI |
| Field Location | Gippsland | FL |
| | Basin | FL1 |
| | Bass Strait | FL2 |
| Service Order Number | B69U-00008 | SON |
| Longitude | 148 16 36.62 E | LONG |
| Latitude | 038 24 31.39 S | LATI |
| Maximum Hole Deviation | 61.0 (deg) | MHD |
| Elevation of Kelly Bushing | 138.7 (ft) | EKB |
| Elevation of Ground Level | -226.4 (ft) | EGL |
| Elevation of Derrick Floor | 138.7 (ft) | EDF |
| Permanent Datum | M.S.L | PDAT, EPD |
| Log Measured From | D.F | LMF, APD |
| Drilling Measured From | D.F | DMF |
| Elevation of Permanent Datum 0.0 (ft) | | |
| Above Permanent Datum 138.7 (ft) | | |

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

Job Data

| | | |
|-------------------------------------|---------------------|------------|
| Date as Month-Day-Year | 28-Jul-2009 | DATE |
| Run Number | One | RUN |
| Total Depth - Driller | 10570.9 (ft) | TDD |
| Total Depth - Logger | 10495.4 (ft) | TDL |
| Bottom Log Interval | 10495.4 (ft) | BLI |
| Top Log Interval | 10367.5 (ft) | TLI |
| Current Casing Size | 7.00 (in) | CSIZ |
| Casing Depth From | 73.6 (ft) | CDF |
| Casing Depth To | 10838.6 (ft) | CADT |
| Casing Grade | L-80 | CASG |
| Casing Weight | 26.0 (lbm/ft) | CWEI |
| Bit Size | 8.50 (in) | BS |
| Bit Size Depth From | 6787.7 (ft) | BSDF |
| Bit Size Depth To | 10872.7 (ft) | BSDT |
| Date Logger At Bottom | 28-Jul-2009 | DLAB, TLAB |
| Logging Unit Number | 889 | LUN, LUL |
| Engineer's Name | B.Donahoe, B.Parker | ENGI |
| Witness's Name | G Rimmer | WITN |
| Service Order Number | B69U-00008 | SON |
| Time Logger At Bottom 10:18 | | |
| Logging Unit Location Prod 4 / AUSL | | |

Mud Data

| | | |
|------------------------------|-------------------|------------|
| Drilling Fluid Type | Production Fluids | DFT |
| Maximum Recorded Temperature | 220.0 (degF) | MRT |
| | 220.0 (degF) | MRT1 |
| Date Logger At Bottom | 28-Jul-2009 | DLAB, TLAB |
| Time Logger At Bottom 10:18 | | |

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

| | |
|---|-----|
| Objective: Conduct RST-C Sigma Survey over the interval HUD(3222m MDKB) to 3160m MDKB | R1 |
| Making 1 Static Pass and 2 Flowing Pass at 900ft/hr | R2 |
| Log Correlated to ExxonMobil Solar Composite Log Supplied with Logging Program . | R3 |
| Maximum Well Deviation: 61deg @ 2075m MDKB | R4 |
| HUD: | R5 |
| SBHT: dgef | R6 |
| SBHP: psia | R7 |
| FBHT: degf | R8 |
| FBHP: psia | R9 |
| Schlumberger Crew : Rick Murray, Dan Halsted | R17 |

Other Services

| | |
|-----------------|-----|
| 7" Posiset Plug | OS1 |
| 2 1/8" Powerjet | OS2 |
| Perforation | OS3 |

| <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 | 37.49 | 1.83 m | -60.0 (0.1 in) up | 128 | TDEP | 60B |
| | 123.00 | 6.00 ft | | | | |
| BOREHOLE-DEPTH | 37.49 | 1.85 m | -10.0 (0.1 in) up | 7 | TDEP;1 | 10B |
| | 123.00 | 6.08 ft | | | | |



Verification Listing

Listing Completed: 1-AUG-2009 13:14:17