

Input Source: D:\users\ideal\fm\Clients\SANTOS\Casino-1\LWD001\CDR\_MWD\_LWD\_036SDP.DLIS

Format: DLIS

Storage Set ID: Default Storage Set

Max Record Length: 8192

Storage Unit Sequence: 1

File Header

File: CDR\_MWD\_LWD\_036SDP

Sequence: 36

Defining Origin: 35

File ID: CDR\_MWD\_LWD\_036SDP    File Type: LWD REPLAY

Producer Name: Schlumberger    Product/Version: IDEAL ID7\_OC\_02    File Set: 41    File Number: 27    15-SEP-2002 14:29:36

Company Name: Santos

Well Name: Casino-1

Field Name: Exploration

Tool String: CDR-950, MWD\_10-A, SONIC-825

Computations: CDR, ARC\_BHC, ECD\_RT

Error Summary

File: CDR\_MWD\_LWD\_036SDP

Sequence: 36

No errors detected in file.

Well Site Data

File: CDR\_MWD\_LWD\_036SDP

Sequence: 36

Origin: 35

Well Data

|                            |  |            |
|----------------------------|--|------------|
| Company Name               | Santos                                 | CN         |
| Well Name                  | Casino-1                               | WN         |
| Field Name                 | Exploration                            | FN         |
| COUNTY:                    | Ocean Bounty                           | CLAB, COUN |
| STATE:                     | Victoria                               | SLAB, STAT |
| Longitude                  | 0                                      | LONG       |
| Latitude                   | 0                                      | LATI       |
| Elevation of Kelly Bushing | 0.0 (m)                                | EKB        |
| Elevation of Ground Level  | -70.5 (m)                              | EGL        |
| Elevation of Derrick Floor | 25.0 (m)                               | EDF        |
| Permanent Datum            | Rotary Table                           | PDAT, EPD  |
| Log Measured From          | Elevation of Permanent Datum -70.5 (m) | LMF        |

Absent Valued Parameters: CN1, NATI, CONT, FL, FL1, FL2, SECT, TOWN, RANG, APIN, SON, MHD, APD, DMF

Job Data

|                     |                                |      |
|---------------------|--------------------------------|------|
| Run Number          | 1                              | RUN  |
| Current Casing Size | 0.0 (in)                       | CSIZ |
| Casing Weight       | 12.25 (lbm/ft)                 | CWEI |
| Bit Size            | 0.0 (lbm/ft)                   | BS   |
| Engineer's Name     | W. Bertheux, C. Tue, C. Borbas | ENGI |

Absent Valued Parameters: DATE, TDD, TDL, BLI, TLI, CDF, CADT, CASG, BSDF, BSDT, DLAB, TLAB, LUN, LUL, WITN, SON

Mud Data

Absent Valued Parameters: DFT, DFD, DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS, DLAB, 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

Channels

File: CDR\_MWD\_LWD\_036SDP

Sequence: 36

Origin: 35

System and Miscellaneous

|                  |                        |       |            |
|------------------|------------------------|-------|------------|
| Spacing: 6.00 in | Number of Channels: 66 |       |            |
| Mnemonic         | Long Name              | Units | Properties |
| 6DEP;4           | 6-in. Frame Depth      | m     | CUSTOMER   |

|        |   |             |                              |
|--------|---|-------------|------------------------------|
| AMP1   | Amplitude of Signal #1  | Pa          | CUSTOMER                     |
| AMP2   | Amplitude of Signal #2  | Pa          | CUSTOMER                     |
| AMP3   | Amplitude of Signal #3  | Pa          | CUSTOMER                     |
| AMP4   | Amplitude of Signal #4  | Pa          | CUSTOMER                     |
| AMRA   | Amplitude at Compressional Peak for the Receiver Array        | dB          | CUSTOMER                     |
| AMTA   | Amplitude at Compressional Peak for the Transmitter Array     | dB          | CUSTOMER                     |
| ANR1   | Angle of Peak from P1DT for Receiver Tadpole                  | deg         | CUSTOMER                     |
| ANR2   | Angle of Peak from P2DT for Receiver Tadpole Plot             | deg         | CUSTOMER                     |
| ANR3   | Angle of Peak from P3DT for Receiver Tadpole Plot             | deg         | CUSTOMER                     |
| ANR4   | Angle of Peak from P4DT for Receiver Tadpole Plot             | deg         | CUSTOMER                     |
| ANT1   | Angle of Peak from P1DT for Transmitter Tadpole               | deg         | CUSTOMER                     |
| ANT2   | Angle of Peak from P2DT for Transmitter Tadpole Plot          | deg         | CUSTOMER                     |
| ANT3   | Angle of Peak from P3DT for Transmitter Tadpole Plot          | deg         | CUSTOMER                     |
| ANT4   | Angle of Peak from P4DT for Transmitter Tadpole Plot          | deg         | CUSTOMER                     |
| C1RA   | Peak Coherence – Receiver Array                               |             | Dimension: [16]<br>CUSTOMER  |
| C1TA   | Peak Coherence – Transmitter Array                            |             | Dimension: [16]<br>CUSTOMER  |
| CHR1   | P1CH for Receiver Tadpole                                     |             | CUSTOMER                     |
| CHR2   | P2CH for Receiver Tadpole                                     |             | CUSTOMER                     |
| CHR3   | P3CH for Receiver Tadpole                                     |             | CUSTOMER                     |
| CHR4   | P4CH for Receiver Tadpole                                     |             | CUSTOMER                     |
| CHRA   | Coherence at Compressional Peak for the Receiver Array        |             | BASIC                        |
| CHT1   | P1CH for Transmitter Tadpole                                  |             | CUSTOMER                     |
| CHT2   | P2CH for Transmitter Tadpole                                  |             | CUSTOMER                     |
| CHT3   | P3CH for Transmitter Tadpole                                  |             | CUSTOMER                     |
| CHT4   | P4CH for Transmitter Tadpole                                  |             | CUSTOMER                     |
| CHTA   | Coherence at Compressional Peak for the Transmitter Array     | us/ft       | BASIC                        |
| DMXM   | Maximum Deviation in Tool Position for the Transmitter Array  | us/ft<br>in | CUSTOMER                     |
| DRMS   | Standard Deviation in Tool Position for the Transmitter Array | us/ft<br>in | CUSTOMER                     |
| DTBC   | Delta-T Compressional Borehole Compensated (Depth Derived)    |             | BASIC                        |
| DTCC   | Delta-T Compressional with Coherence Cutoff                   |             | BASIC                        |
| DTDF   | Delta-T Compressional Difference between DTRA and DTTA        |             | CUSTOMER                     |
| DTR1   | Converted Angle of P1DT for Receiver Tadpole                  | us/ft deg   | CUSTOMER                     |
| DTR2   | Converted Angle of P2DT for Receiver Tadpole                  | deg         | CUSTOMER                     |
| DTR3   | Converted Angle of P3DT for Receiver Tadpole                  | deg         | CUSTOMER                     |
| DTR4   | Converted Angle of P4DT for Receiver Tadpole                  | deg         | CUSTOMER                     |
| DTRA   | Delta-T Compressional from Receiver Array                     |             | BASIC                        |
| DTT1   | Converted Angle of P1DT for Transmitter Tadpole               | us/ft deg   | CUSTOMER                     |
| DTT2   | Converted Angle of P2DT for Transmitter Tadpole               | deg         | CUSTOMER                     |
| DTT3   | Converted Angle of P3DT for Transmitter Tadpole               | deg         | CUSTOMER                     |
| DTT4   | Converted Angle of P4DT for Transmitter Tadpole               | us/ft deg   | CUSTOMER                     |
| DTTA   | Delta-T Compressional from Transmitter Array                  | us/ft       | BASIC                        |
| IDTF   | Integrated DTDF over Depth                                    | us          | CUSTOMER                     |
| ITTI   | Integrated Transit Time                                       | ms          | BASIC                        |
| MNSL   | Minimum Labeling Slowness, Compressional                      |             | CUSTOMER                     |
| MXSL   | Maximum Labeling Slowness, Compressional                      |             | CUSTOMER                     |
| NPRA   | Number of Peaks – Receiver Array                              |             | CUSTOMER                     |
| NPTA   | Number of Peaks – Transmitter Array                           |             | CUSTOMER                     |
| NWRA   | Number of Waveforms used in Receiver Array Computation        |             | CUSTOMER                     |
| NWTA   | Number of Waveforms used in Transmitter Array Computation     |             | CUSTOMER                     |
| S1RA   | Peak Slowness – Receiver Array                                |             | Dimension: [16]<br>CUSTOMER  |
| S1TA   | Peak Slowness – Transmitter Array                             |             | Dimension: [16]<br>CUSTOMER  |
| SPOR   | Sonic Porosity  | m3/m3       | CUSTOMER                     |
| STRA   | Slowness Time Projection, Receiver Array                      |             | Dimension: [210]<br>CUSTOMER |
| STTA   | Slowness Time Projection, Transmitter Array                   |             | Dimension: [210]<br>CUSTOMER |
| T1RA   | Peak Time – Receiver Array                                    |             | Dimension: [16]<br>CUSTOMER  |
| T1TA   | Peak Time – Transmitter Array                                 |             | Dimension: [16]<br>CUSTOMER  |
| TDEP;5 | 6-in. Frame Depth   | 0.1 in      | CUSTOMER                     |
| TIME;5 | 6-in. Frame Time  | ms          | CUSTOMER                     |
| TTRA   | Transit Time at Compressional Peak for the Receiver Array     | us          | CUSTOMER                     |
| TTTA   | Transit Time at Compressional Peak for the Transmitter Array  | us          | CUSTOMER                     |
| WF11   | Filtered Waveform 1, 1/2-ft Averaged                          |             | Dimension: [151]<br>CUSTOMER |
| WF21   | Filtered Waveform 2, 1/2-ft Averaged                          |             | Dimension: [151]<br>CUSTOMER |
| WF31   | Filtered Waveform 3, 1/2-ft Averaged                          |             | Dimension: [151]<br>CUSTOMER |
| WF41   | Filtered Waveform 4, 1/2-ft Averaged                          |             | Dimension: [151]             |

|  |                                      |              |                   |
|--|--------------------------------------|--------------|-------------------|
| CUSTOMER   |                                      |              |                   |
| <b>Spacing:</b> 2.00 in <b>Number of Channels:</b> 6 |                                      |              |                   |
| <u>Mnemonic</u>                                      | <u>Long Name</u>                     | <u>Units</u> | <u>Properties</u> |
| TDEP;6   | 2-in. Frame Depth                    | 0.1 in       | CUSTOMER          |
| TIME;6   | 2-in. Frame Time                     | ms           | CUSTOMER          |
| WF1T   | Filtered Waveform 1, 2-inch Averaged |              | Dimension: [151]  |
|  |                                      |              | CUSTOMER          |
| WF2T   | Filtered Waveform 2, 2-inch Averaged |              | Dimension: [151]  |
|  |                                      |              | CUSTOMER          |
| WF3T   | Filtered Waveform 3, 2-inch Averaged |              | Dimension: [151]  |
|  |                                      |              | CUSTOMER          |
| WF4T   | Filtered Waveform 4, 2-inch Averaged |              | Dimension: [151]  |
|  |                                      |              | CUSTOMER          |
| <b>Spacing:</b> 1.20 in <b>Number of Channels:</b> 4 |                                      |              |                   |
| <u>Mnemonic</u>                                      | <u>Long Name</u>                     | <u>Units</u> | <u>Properties</u> |
| ISSI   | ISONIC Samples, This Frame           |              | CUSTOMER          |
| STKI   | ISONIC Samples                       |              | CUSTOMER          |
| TDEP;7   | 0.1-ft Frame Depth                   | 0.1 in       | CUSTOMER          |
| TIME;7   | 0.1-ft Frame Time                    | ms           | CUSTOMER          |

|  |              |             |                    |                 |                      |                   |
|--|--------------|-------------|--------------------|-----------------|----------------------|-------------------|
| <b>Frame Summary</b> File: <b>CDR_MWD_LWD_036SDP</b> Sequence: <b>36</b> |              |             |                    |                 |                      |                   |
| <b>Origin: 35</b>  |              |             |                    |                 |                      |                   |
| <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   | 725.12       | 1030.53 m   | 60.0 (0.1 in) down | 66              | TDEP;5               | 60B               |
|  | 2379.00      | 3381.00 ft  |                    |                 |                      |                   |
| BOREHOLE-DEPTH   | 725.12       | 1030.48 m   | 20.0 (0.1 in) down | 6               | TDEP;6               | 20B               |
|  | 2379.00      | 3380.83 ft  |                    |                 |                      |                   |
| BOREHOLE-DEPTH   | 725.12       | 1030.35 m   | 12.0 (0.1 in) down | 4               | TDEP;7               | 12B               |
|  | 2379.00      | 3380.40 ft  |                    |                 |                      |                   |

|  |  |  |  |
|--|--|--|--|
|  <b>Verification Listing</b> |  |  | <b>Listing Completed:</b> 15-SEP-2002 14:34:51 |
|--|--|--|--|