# MV Geophysical

# FLUID CONDUCTIVITY TEMPERATURE LOG

| | |
|---|---|
| Company | Florida Design Drilling Corp. |
| Well | PW-2 |
| Field | Davie |
| County | Broward |
| State/Prv | Florida |

| | | |
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| Company | Florida Design Drilling Corp. | |
| Well | PW-2 | |
| Field | Davie | |
| County | Broward | State/Prv Florida |
| Location | Production Wellfield Expansion<br>Town of Davie - UF Test Site<br>AECOM | Other Services<br>XY/GR,DIL<br>FCT,FLOW<br>BHC,CBL |
| Permanent Datum | G.L. | Elevation |
| Log Measured From | G.L. | Elevation K.B. |
| Drilling Measured From | G.L. | D.F. G.L. |

| | |
|---|---|
| Date | 30-JUL-2012 |
| Run Number | THREE |
| Depth Driller | 1575' |
| Depth Logger | 1574' |
| Bottom Logged Interval | 1574' |
| Top Log Interval | 895' |
| Open Hole Size | 14.75"/9.875" |
| Type Fluid | H2O |
| Density / Viscosity | na/na |
| Max. Recorded Temp. | see FCT log |
| Estimated Cement Top | SURFACE |
| Time Well Ready | 10:00 7/30/2012 |
| Time Logger on Bottom | 12:00 7/30/2012 |
| Equipment Number | MVGS-1 |
| Location | Ft. Myers |
| Recorded By | S.Miller/C.Miller |
| Witnessed By | S.English (AECOM) | Rossco (FDD) |

| Borehole Record | | | | Tubing Record | | | |
|---|---|---|---|---|---|---|---|
| Run Number | Bit | From | To | Size | Weight | From | To |
| ONE | 41" | 46' | 253' | | | | |
| TWO | 12.25" | 250' | 1100' | | | | |
| THREE | 15" | 962' | 1100' | | | | |
| FOUR | 9.875" | 1100' | 1575' | | | | |

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | 42" | 0.375" WT | SURFACE | 50' |
| Prot. String | 30" | 0.375" WT | SURFACE | 250' |
| Production String | 16" FRP | 15.875" ID | SURFACE | 962' |
| Liner | | | | |
| Invoice No. | 2012156 | fddavie2.db | 8fnl/4fld/.pdf/.las | * Final Print * |

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

STATIC and DYNAMIC down passes were performed.
Cw =7175 uS/cm @ 71.6 degF @ Q=2200 gpm.

FLUID RESISTIVITY CALIBRATION REPORT (Performed: 27-JUL-12 10:15)

| uS/cm | CPS |
|---|---|
| 1,212 | 2501.53 |
| 20,046 | 1891.24 |
| 144,258 | 1523.58 |

TEMPERATURE CALIBRATION REPORT (Performed: 27-JUL-12 10:45)

| DEG-F | CPS |
|---|---|
| 35.6 | 143.71 |
| 144.5 | 2689.31 |

# MV Geophysical — S/D MERGED FCT

| | |
|---|---|
| Database File: | fddavie2.db |
| Dataset Pathname: | run3/SDFCT |
| Presentation Format: | fctsdm2 |
| Dataset Creation: | Mon Jul 30 12:53:18 2012 |
| Charted by: | Depth in Feet scaled 1:240 |

6500 DYNAMIC FC (uS/cm) 8500 | 65 DTEMP (degF) 75
6500 STATIC FC (uS/cm) 8500 | 65 STEMP (degF) 75
SFC (uS/cm) DFC (uS/cm) | -0.5 S Delta T (degF) 0.5 | -0.5 D Delta T (degF) 0.5 | STEMP (degF) | DTEMP (degF)

6500 DYNAMIC FC (uS/cm) 8500 | 65 DTEMP (degF) 75
6500 STATIC FC (uS/cm) 8500 | 65 STEMP (degF) 75
SFC (uS/cm) DFC (uS/cm) | -0.5 S Delta T (degF) 0.5 | -0.5 D Delta T (degF) 0.5 | STEMP (degF) | DTEMP (degF)

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| CCL | 4.46 | | CCL-MVGS 1.9 (MV01) | 1.33 | 1.90 | 8.00 |
| GR#2 | 1.15 | | GR #2 -RTSB (MV01B) | 3.33 | 1.90 | 10.00 |
| TEMP | 0.10 | | TEMP-RTS (MV01) | 0.46 | 1.90 | 2.00 |

| | |
|---|---|
| Dataset: | fddavie2.db: field/well/run3/pass5 |
| Total Length: | 5.12 ft |
| Total Weight: | 20.00 lb |
| O.D. | 1.90 in |

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| State | Florida |
| Country | USA |