MV Geophysical

Company Florida Design Drilling Corp.
Well PW-1
Field Davie
County Broward
State/Prv Florida

FLUID CONDUCTIVITY TEMPERATURE LOG

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Location: Production Wellfield Expansion, Town of Davie, PW-1, Test Site
Elevation: G.L. 6.5 ft, K.B. 0.0 ft, D.F. ft
Permanent Datum: Ground Level
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Run No. 4 | Date 18-JUN-12 | Service Order 120618SDFCT | Depth Driller 7320 | Depth Logger 7320 | Bottom Logged Interval 7320 | Top Log Interval Surface | Casing Driller 20 @ 1120 | Casing Logger 1120 | Bit Size 12.25 | Type Fluid in Hole Water | Density / Viscosity 8.4 / 28 | pH / Fluid Loss 7.0 / 0 | Source of Sample Flowing | Rm @ Meas Temp 0.19 @ 70 | Rmf @ Meas Temp 0.15 @ 70 | Rmc @ Meas Temp 0.24 @ 70 | Source of Rmf / Rmc Calculated / Calculated | Rm @ BHT 0.19 @ 70 | Time Since Circulation 12 HRS | Time Since Logger at Bottom 12 HRS | Max Recorded Temp 70 | Equipment Number 3 Eastern 1400 Cobalt | Location Davie, FL | Recorded By Mike Myers | Witnessed By Jeff Fisher

Run No. 1 | Date 18-JUN-12 | Service Order 120618SDFCT | Depth Driller 7320 | Depth Logger 7320 | Bottom Logged Interval 7320 | Top Log Interval Surface | Casing Driller 20 @ 1120 | Casing Logger 1120 | Bit Size 12.25 | Type Fluid in Hole Water | Density / Viscosity 8.4 / 28 | pH / Fluid Loss 7.0 / 0 | Source of Sample Flowing | Rm @ Meas Temp 0.19 @ 70 | Rmf @ Meas Temp 0.15 @ 70 | Rmc @ Meas Temp 0.24 @ 70 | Source of Rmf / Rmc Calculated / Calculated | Rm @ BHT 0.19 @ 70 | Time Since Circulation 12 HRS | Time Since Logger at Bottom 12 HRS | Max Recorded Temp 70 | Equipment Number 3 Eastern 1400 Cobalt | Location Davie, FL | Recorded By Mike Myers | Witnessed By Jeff Fisher

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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 =7320 uS/cm @ 69.8 degF @ Q=1120 gpm.

FLUID RESISTIVITY CALIBRATION REPORT (Performed: 18-JUN-12 14:15)

uS/cm	CPS
1,227.2	2525.25
20,355	1907.91
149,464	1543.85

TEMPERATURE CALIBRATION REPORT (Performed: 18-JUN-12 14:45)

DEG-F	CPS
36.8	145.31
149.1	2697.13

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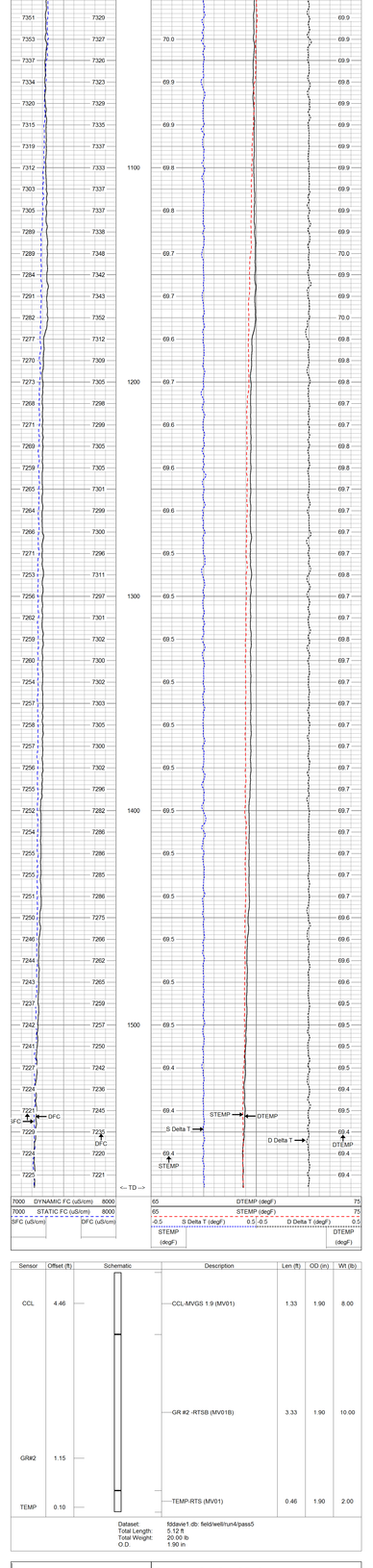
S/D MERGED FCT

Database File: fddavin1.db
Dataset Pathname: run4/SDFCT
Presentation Format: fctsdm2
Dataset Creation: Thu Jun 28 18:44:30 2012
Charted by: Depth in Feet scaled 1:240



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 -RTSB (MV01B)	3.33	1.90	10.00
GR#2	1.15					
TEMP	0.10		TEMP-RTS (MV01)	0.46	1.90	2.00

Dataset: fddavie1.db: field/well/run4/pass5
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

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State Florida
Country USA