MV Geophysical

FLUID CONDUCTIVITY TEMPERATURE LOG

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

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

Location: Production Wellfield Expansion, Town of Davie - UF Test Site, AECOM

Other Services: XY/GR, FLO,FCT, DHTV

Permanent Datum	G.L.	Elevation	K.B.
Log Measured From	G.L.		D.F.
Drilling Measured From	G.L.		G.L.

Date	7-JUL-2012		
Run Number	FIVE		
Depth Driller	1576'		
Depth Logger	1576'		
Bottom Logged Interval	1576'		
Top Log Interval	895'		
Open Hole Size	14.75"		
Type Fluid	H2O		
Density / Viscosity	na/na		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	10:00 7/7/2012		
Time Logger on Bottom	12:15 7/7/2012 S	13:15 7/7/2012 D	
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'	256'	FIVE	9.875	1100'	1576'
TWO	11.875"	255'	1100'				
THREE	28"	255'	975'				
FOUR	14.75"	972'	1576'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	42"	0.375" WT	SURFACE	46'
Prot. String	30"	0.375" WT	SURFACE	255'
Production String	16" FRP	15.875" ID	SURFACE	972'
Liner				
Invoice No.	2012149	fddavie1.db	8fld/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 =8450 uS/cm @ 70.3 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

MV Geophysical — S/D MERGED FCT

Database File: fddavie1.db
Dataset Pathname: run5/SDFCT
Presentation Format: fctsdm2
Dataset Creation: Sat Jul 07 13:36:25 2012
Charted by: Depth in Feet scaled 1:240

7000 DYNAMIC FC (uS/cm) 9000 | 65 DTEMP (degF) 75
7000 STATIC FC (uS/cm) 9000 | 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)

7000 DYNAMIC FC (uS/cm) 9000 | 65 DTEMP (degF) 75
7000 STATIC FC (uS/cm) 9000 | 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: fddavie1.db: field/well/run5/pass5
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

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Company	Florida Design Drilling Corp.
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Field	Davie
County	Broward
State	Florida
Country	USA