FLUID CONDUCTIVITY TEMPERATURE LOG

MV Geophysical

Company	Florida Design Drilling Corp.
Well	PW-5
Field	Davie
County	Broward
State/Prv	Florida

Company: Florida Design Drilling Corp.
Well: PW-5
Field: Davie
County: Broward
State/Prv: Florida

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

Other Services: XY/GR,FCT, DIL,BHC,CBL, FLO,DHTV

Permanent Datum: G.L. — Elevation
Log Measured From: G.L.
Drilling Measured From: G.L.

Elevation: K.B. / D.F. / G.L.

Date	20-APR-2012
Run Number	FIVE-b
Depth Driller	1400'
Depth Logger	1402'
Bottom Logged Interval	1402'
Top Log Interval	895'
Open Hole Size	15"
Type Fluid	H2O
Density / Viscosity	na/na
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	08:00 4/20/2012
Time Logger on Bottom	09:30 4/20/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	S.English (AECOM) / B.Balmer (FDD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	41"	50'	262'	FIVE	15"	960'	990'
TWO	28"	260'	270'	SIX	9.875"	990'	1400'
THREE	9.875"	270'	992'	SEVEN	15"	954'	1400'
FOUR	28"	260'	959'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	42"	0.375" WT	SURFACE	50'
Prot. String	30"	0.375" WT	SURFACE	260'
Production String	16" FRP	15.875" ID	SURFACE	954'
Liner				
Invoice No.	2012072	fddavie5.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 =8558 uS/cm @ 22.6 degC @ Q=1380 gpm.

FLUID RESISTIVITY CALIBRATION REPORT (Performed: 28-MAR-12 09:15)

uS/cm	CPS
1,220.7	2510.25
20,370	1901.11
149,410	1548.35

TEMPERATURE CALIBRATION REPORT (Performed: 28-MAR-12 09:45)

DEG-F	CPS
38.5	147.851
148.8	2690.21

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S/D Merged FCT

Database File:	fddavie5.db
Dataset Pathname:	run6/SDFCT
Presentation Format:	fctsdm2
Dataset Creation:	Fri Apr 20 12:32:26 2012
Charted by:	Depth in Feet scaled 1:240

5000 DYNAMIC FC (uS/cm) 15000 | 65 DTEMP (degF) 75
5000 STATIC FC (uS/cm) 15000 | 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)

5000 DYNAMIC FC (uS/cm) 15000 | 65 DTEMP (degF) 75
5000 STATIC FC (uS/cm) 15000 | 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 -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:	fddavie5.db: field/well/run6/pass6
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

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Field	Davie
County	Broward
State	Florida
Country	USA