MV Geophysical

DUAL INDUCTION
LL3 / SP
LOG

Company FP&L
Well Turkey Point DZMW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company **FP&L**
Well **Turkey Point DZMW-1**
Field **Florida City**
County **Miami-Dade** State/Prv **Florida**

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC
FLO,TDS

Permanent Datum	Pad Level	Elevation
Log Measured From	Pad Level	
Drilling Measured From	Pad Level	

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

Date	17-MAY-2012		
Run Number	SIX		
Depth Driller	1905'		
Depth Logger	1905'		
Bottom Logged Interval	1903'		
Top Log Interval	1102'		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	13:00 5/17/2012		
Time Logger on Bottom	16:00 5/17/2012		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller		
Witnessed By	M.Clasen (MHC)	K.Greuel (LCC)	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	250'	FIVE	12.25"	1102'	1905'
TWO	42"	SURFACE	258'				
THREE	12.25"	255'	1110'				
FOUR	32.5"	255'	1110'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	44"	0.375" WT	SURFACE	36'
Prot. String	34"	0.375" WT	SURFACE	255'
Production String	24"	0.375" WT	SURFACE	1102'
Liner				LTPDZM1A.db
Invoice No.	2012102	P.O. #:	8fld/las/pdf	* 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

Rw=0.219 ohm-m @ 80.7 degF

Drill Pipe set to 1076'

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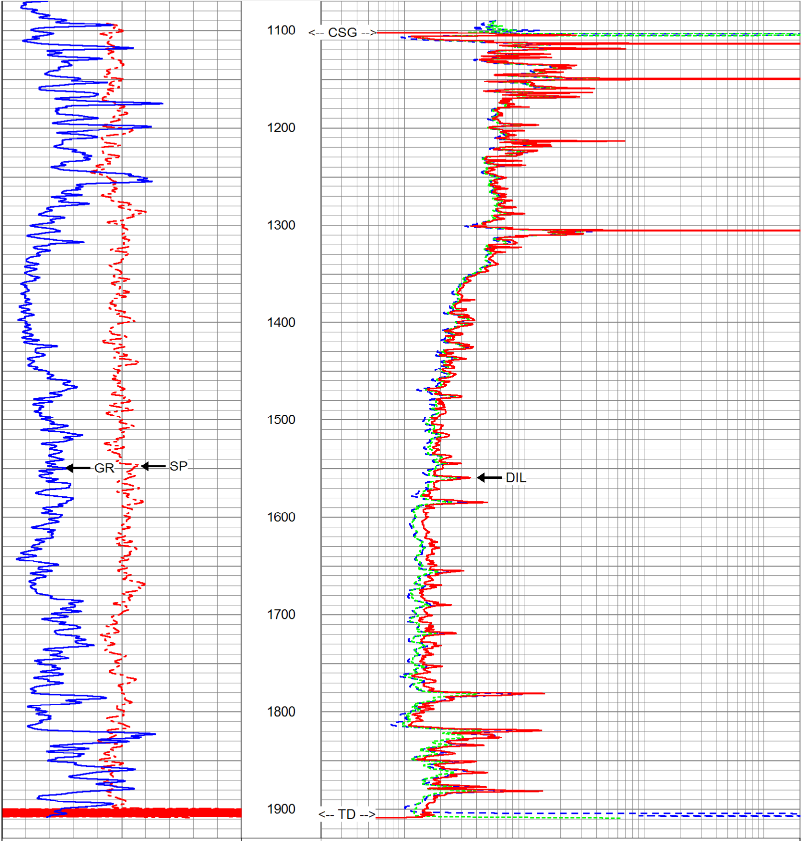
MAIN PASS

Database File:	ltpdzm1a.db
Dataset Pathname:	MAIN
Presentation Format:	dil-1
Dataset Creation:	Thu May 17 15:25:55 2012
Charted by:	Depth in Feet scaled 1:1200

-5 SP (mV) 5
0 GR (GAPI) 100

0.2 RILD (Ohm-m) 2000
0.2 RILM (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000



-5 SP (mV) 5
0 GR (GAPI) 100

0.2 RILD (Ohm-m) 2000
0.2 RILM (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

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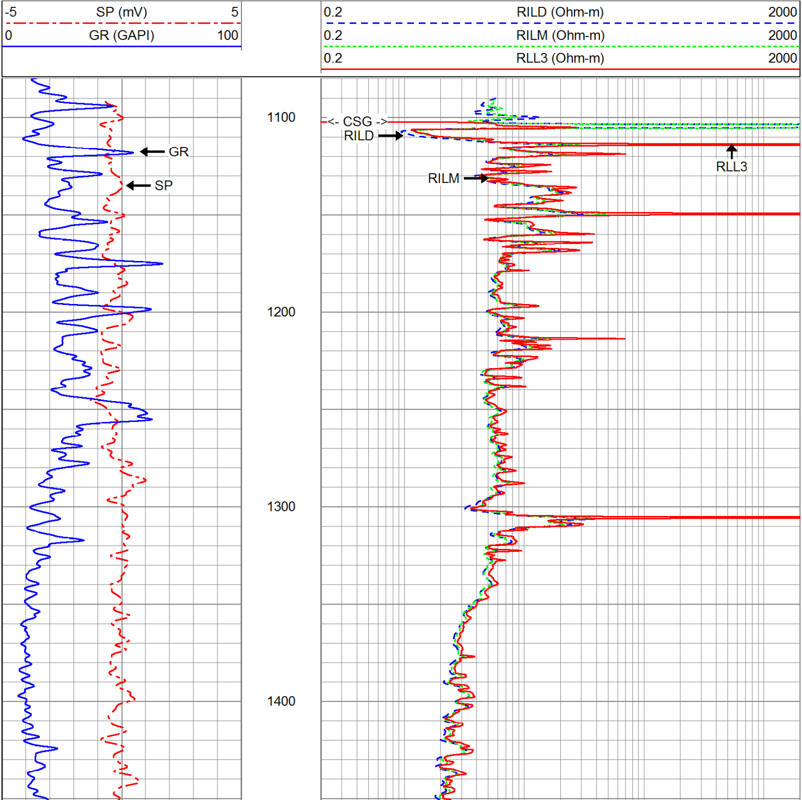
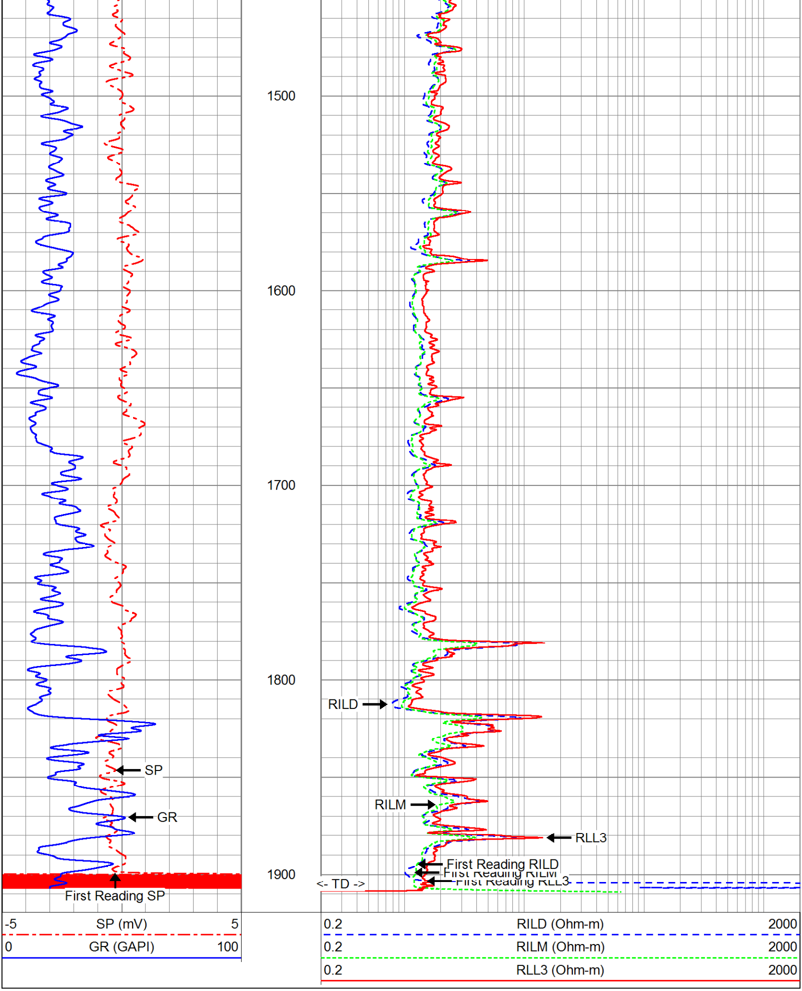
MAIN PASS

Database File: ltpdzm1a.db
Dataset Pathname: MAIN
Presentation Format: dil-5
Dataset Creation: Thu May 17 15:25:55 2012
Charted by: Depth in Feet scaled 1:600





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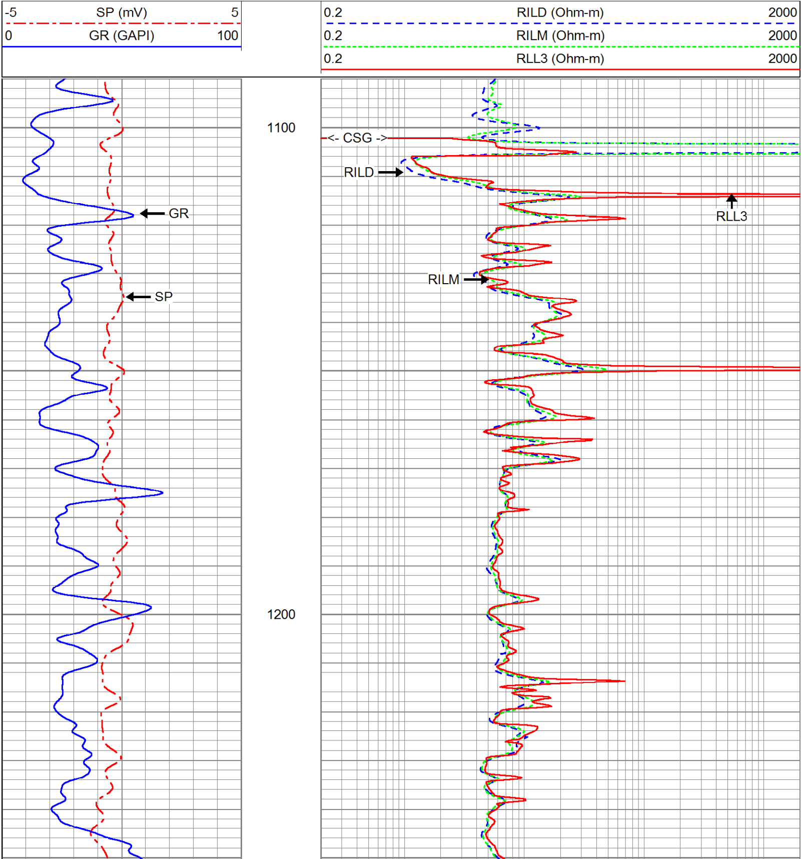
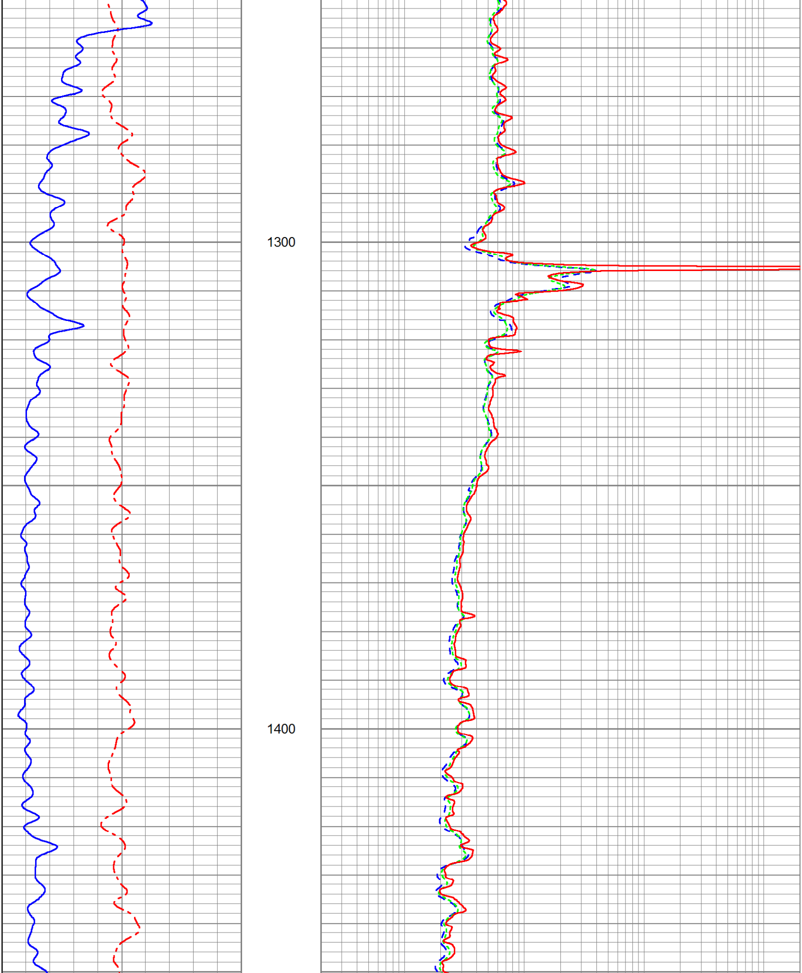
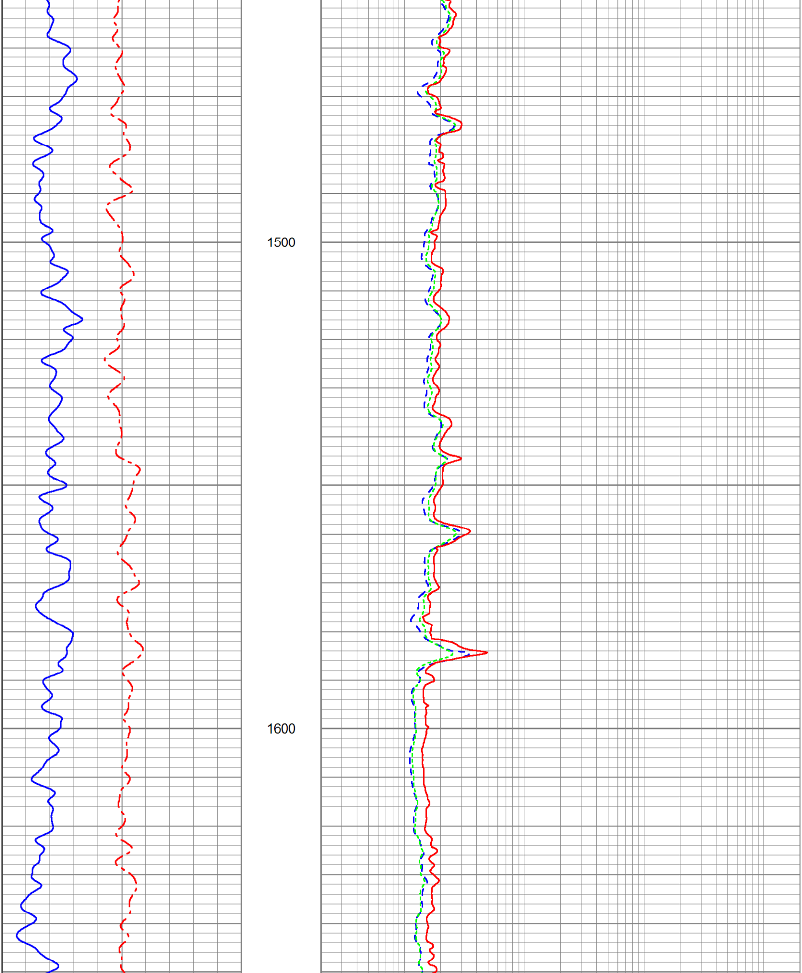
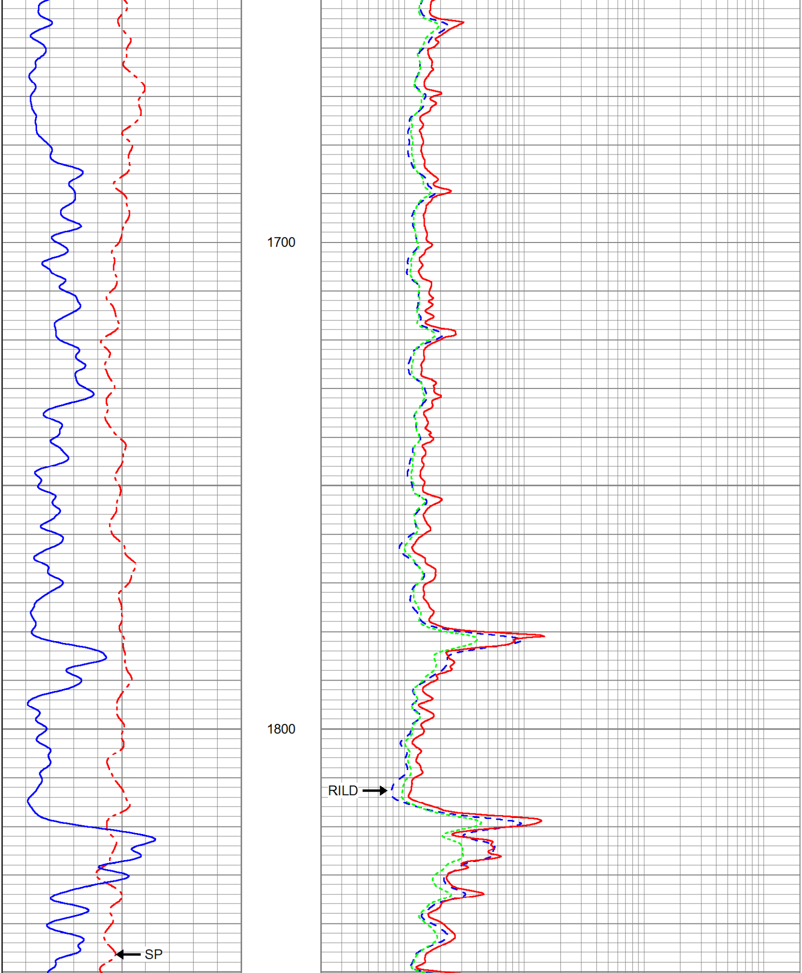
MAIN PASS

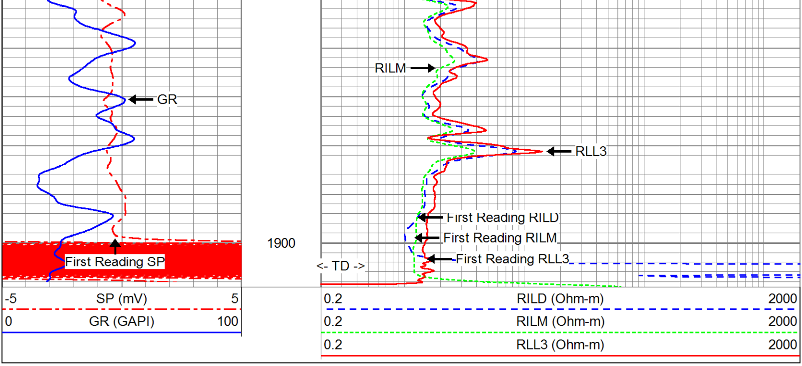
Database File:	ltpdzm1a.db
Dataset Pathname:	MAIN
Presentation Format:	dil-5
Dataset Creation:	Thu May 17 15:25:55 2012
Charted by:	Depth in Feet scaled 1:240











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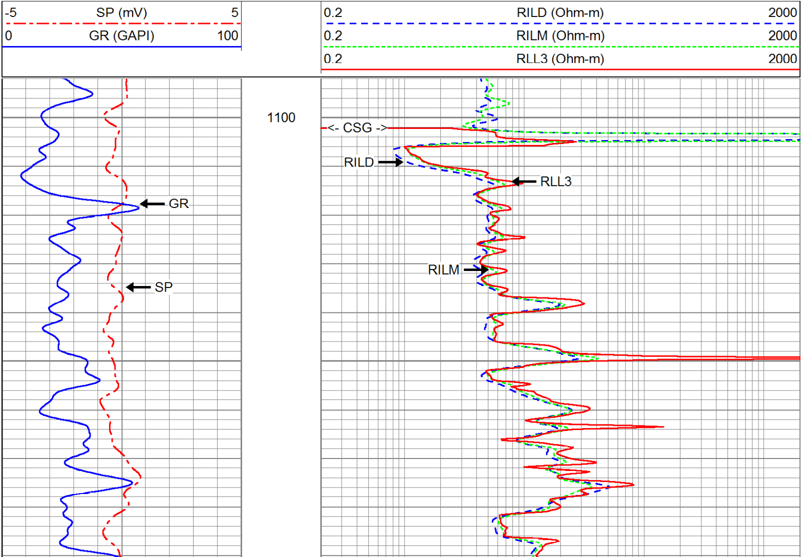
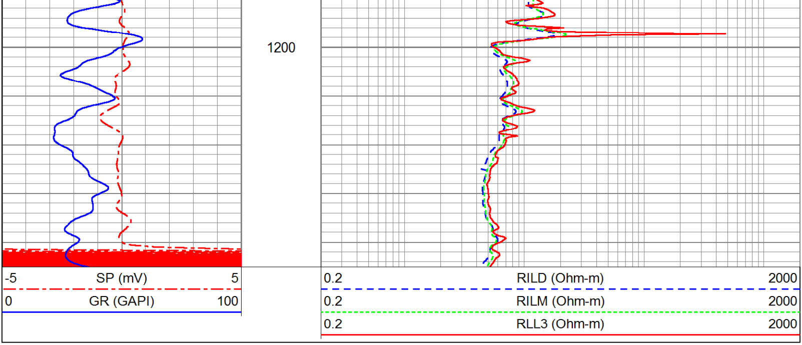
REPEAT SECTION

Database File: ltpdzm1a.db
Dataset Pathname: REPEAT
Presentation Format: dil-5
Dataset Creation: Thu May 17 15:29:06 2012
Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: ltpdzm1a.db
Dataset Pathname: pass12
Dataset Creation: Thu May 17 17:10:50 2012 by Log VER_5.3

Dual Induction Calibration Report

Serial-Model:	5390-R
Surface Cal Performed:	Tue Jan 17 16:39:01 2012
Downhole Cal Performed:	Tue Jan 17 16:39:14 2012
After Survey Verification Performed:	Wed Apr 21 11:04:55 2010

Surface Calibration

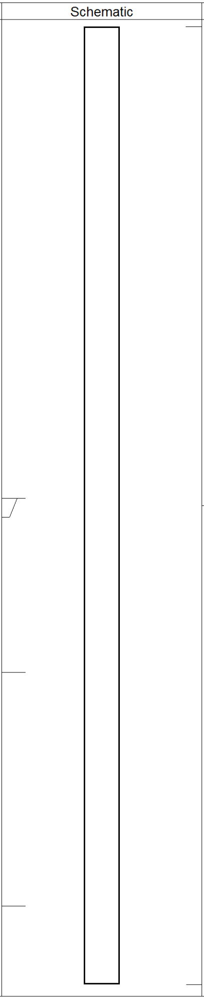
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.051	0.645	V	0.000	400.000	mmho-m	673.401	-34.343
Medium	0.018	0.735	V	0.000	464.000	mmho-m	647.121	-11.545
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	635.021	-7.049
Medium	0.005	0.739	V	0.000	464.000	mmho-m	632.408	-3.370

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-43.158	78.288	mmho-m	-42.562	77.982	mmho-m	0.993	0.275
Medium	-9.475	466.701	mmho-m	-8.097	466.698	mmho-m	0.997	1.351
Shallow	2.514	0.025	V	494.500	2.000	Ohm-m	197.896	-3.011

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	-43.158	78.288	mmho-m	0.993	0.275
Medium	0.000	0.000	mmho-m	-9.475	466.701	mmho-m	0.997	1.351
Shallow	0.000	0.000	Ohm-m	494.500	2.000	Ohm-m	1.000	0.000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CILD SP	10.60 10.60		DIL-R (5390)	20.90	4.00	345.00
CILM	6.80					
RLL3	1.70					

Dataset:	ltpdzm1a.db: field/well/run1/pass12
Total Length:	20.90 ft
Total Weight:	345.00 lb
O.D.	4.00 in

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Company	FP&L		
Well	Turkey Point DZMW-1		
Field	Florida City		
County	Miami-Dade		
State	Florida	Country	USA