Company	Florida Design Drilling
Well	F-1
Field	Miramar
County	Broward
State/Prv	Florida

DUAL INDUCTION LL3 / SP LOG

MV Geophysical

Company	Florida Design Drilling Corp.
Well	F-1
Field	Miramar
County	Broward
State/Prv	Florida
Location	City of Miramar Water Treatment Plant, Malcolm Pirnie, Inc.
Other Services	XY/GR, DIL/SP

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

Date	24-MAR-2008
Run Number	THREE
Depth Driller	1060'
Depth Logger	1060'
Bottom Logged Interval	1053'
Top Log Interval	226'
Open Hole Size	12.25"
Type Fluid	MUD
Density / Viscosity	NA / NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	19:30 3/24/2008
Time Logger on Bottom	19:30 3/24/2008
Equipment Number	MVG-2
Location	Ft. Myers
Recorded By	S.Maier, J Bar (FID)
Witnessed By	J. Tuit (MPI)

Borehole Record Run Number	Bit	From	To	Tubing Record Size	Weight	From	To
ONE	12.25"	40'	226'				
TWO	12.25"	226'	1060'				
THREE	12.25"						

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	42"	0.375" WT	SURFACE	40'
Prot. String	42"	0.375" WT	SURFACE	226'
Production String				
Liner				

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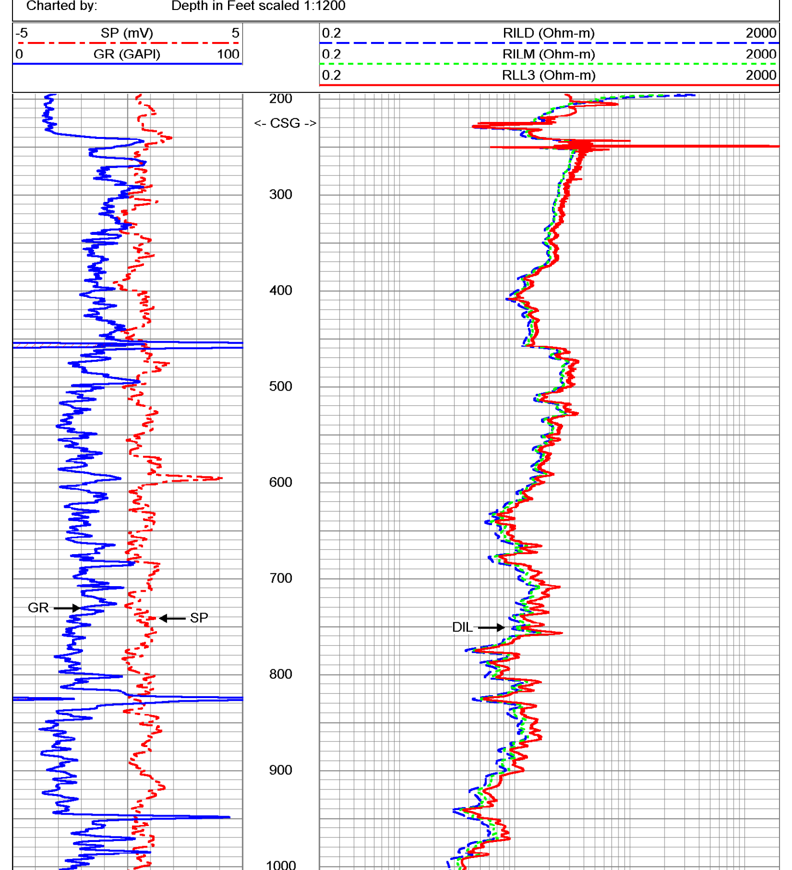
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Rm=4.954 ohm-m @ 86.1 degF

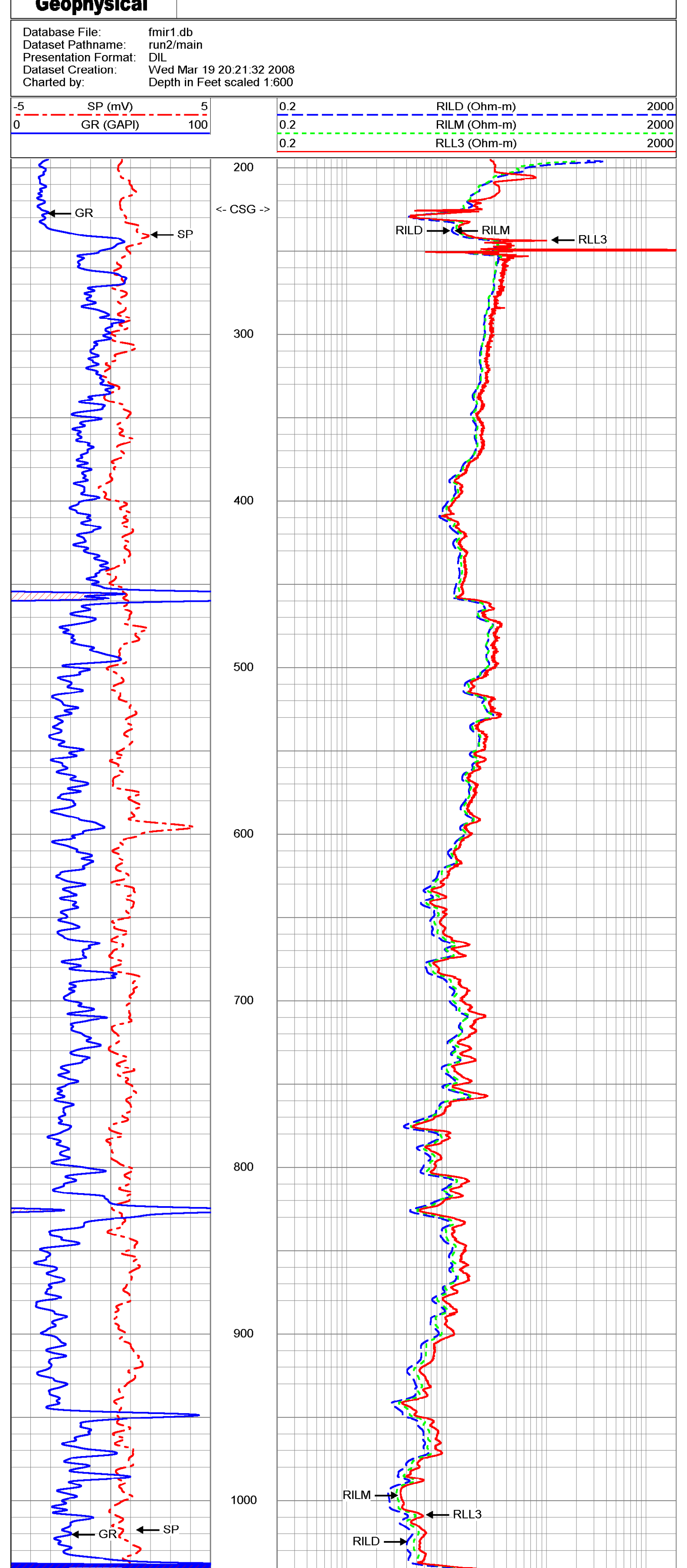
MV Geophysical — MAIN PASS

Database File:	fmir1.db
Dataset Pathname:	run2/main
Presentation Format:	DIL-1
Dataset Creation:	Wed Mar 19 20:21:32 2008
Charted by:	Depth in Feet scaled 1:1200



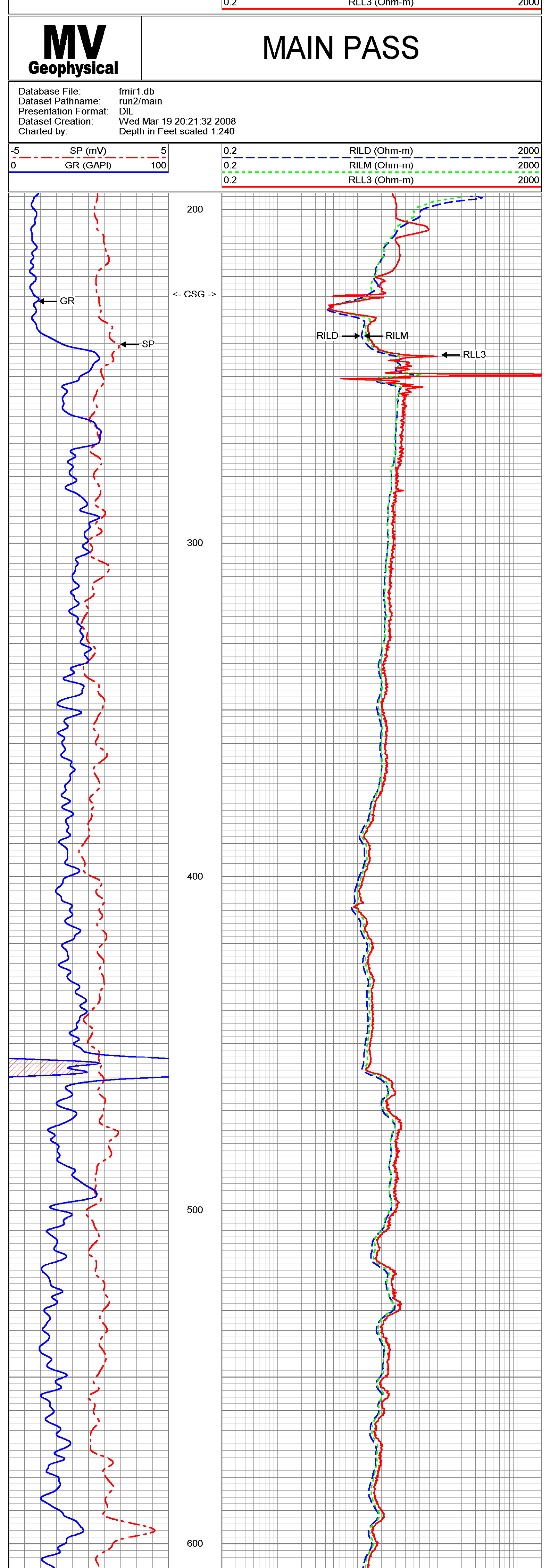
MV Geophysical — MAIN PASS

Database File:	fmir1.db
Dataset Pathname:	run2/main
Presentation Format:	DIL
Dataset Creation:	Wed Mar 19 20:21:32 2008
Charted by:	Depth in Feet scaled 1:600



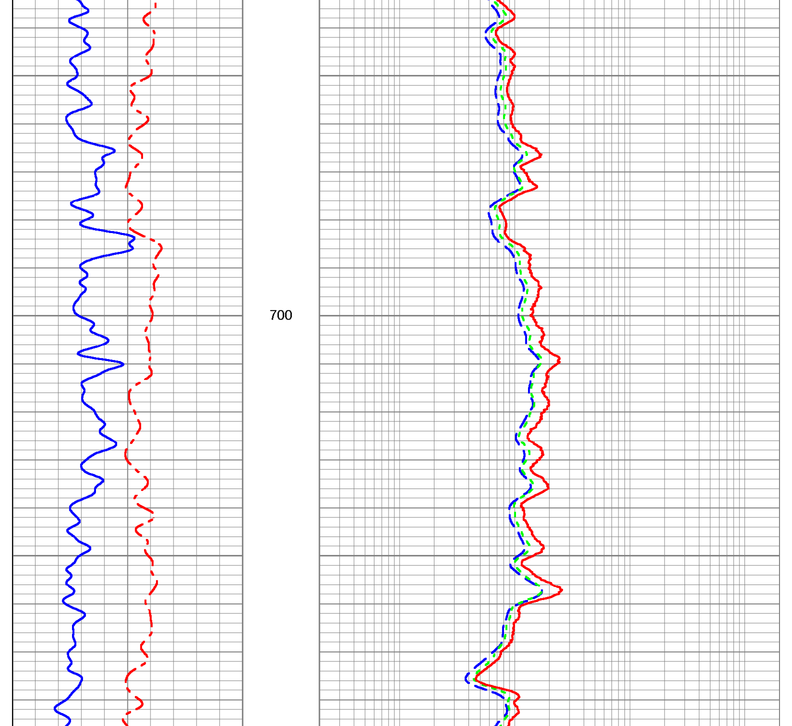
MV Geophysical — MAIN PASS

Database File:	fmir1.db
Dataset Pathname:	run2/main
Presentation Format:	DIL
Dataset Creation:	Wed Mar 19 20:21:32 2008
Charted by:	Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File:	fmir1.db
Dataset Pathname:	run2/REPEAT
Presentation Format:	DIL
Dataset Creation:	Wed Mar 19 20:25:48 2008
Charted by:	Depth in Feet scaled 1:240



Dual Induction Calibration Report

Serial-Model:	5390-R
Surface Cal Performed:	Thu Nov 15 11:21:40 2007
Downhole Cal Performed:	Wed Mar 15 11:08:57 2006
After Survey Verification Performed:	Thu Nov 15 11:21:50 2007

Surface Calibration

Loop:	Readings Air	Readings Loop		References Air	References Loop		Results m	Results b
Deep	0.050	0.646	V	0.000	400.000	mmho-m	671.771	-33.646
Medium	0.001	0.732	V	0.000	464.000	mmho-m	634.710	-0.492

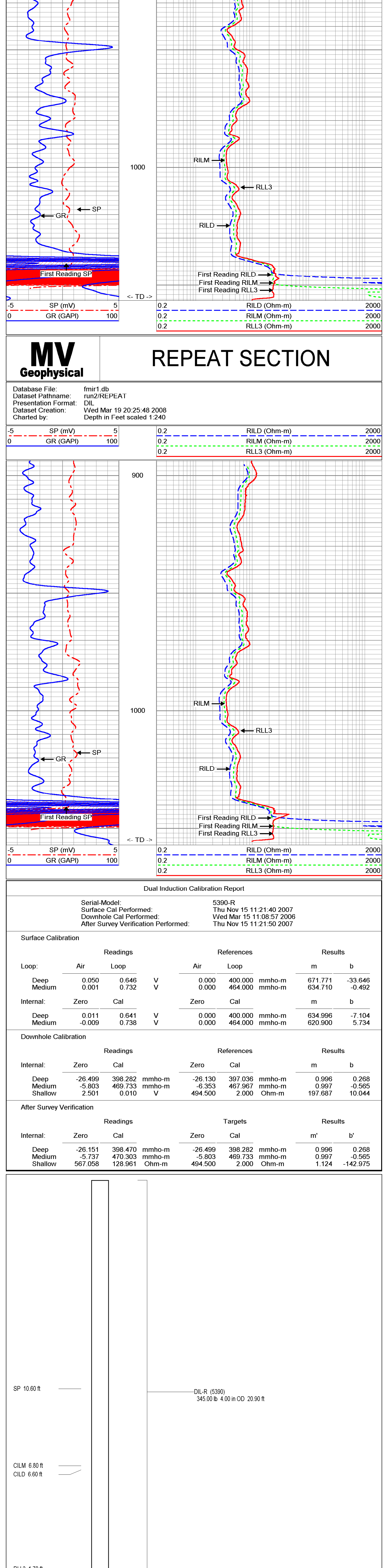
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	634.996	-7.104
Medium	-0.009	0.738	V	0.000	464.000	mmho-m	620.950	5.734

Downhole Calibration

Internal:	Readings Zero	Readings Cal		References Zero	References Cal		Results m	Results b
Deep	-26.499	398.282	mmho-m	-26.130	397.036	mmho-m	0.996	0.268
Medium	-5.803	469.733	mmho-m	-6.353	467.967	mmho-m	0.997	-0.565
Shallow	2.501	0.010	V	494.500	2.000	Ohm-m	197.687	10.044

After Survey Verification

Internal:	Readings Zero	Readings Cal		Targets Zero	Targets Cal		Results m'	Results b'
Deep	-26.151	398.470	mmho-m	-26.499	398.282	mmho-m	0.996	0.268
Medium	-5.737	470.303	mmho-m	-5.803	469.733	mmho-m	0.997	-0.565
Shallow	567.058	128.961	Ohm-m	494.500	2.000	Ohm-m	1.124	-142.975



Dataset:	run2/pass6
Total Length:	20.90 ft
Total Weight:	345.00 lb
O.D.:	4.00 in