YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

DUAL INDUCTION
LL3 with SP
LOG

Company PALM BEACH COUNTY
Well IW #1
Field LAKE REGION
County PALM BEACH
State FLORIDA

Company PALM BEACH COUNTY WATER UTIL.
Well DEEP INJECTION WELL #1
Field LAKE REGION
County PALM BEACH State FLORIDA

Location

Other Services
SEE
COMMENTS

Permanent Datum	PAD	Elevation
Log Measured From	PAD	
Drilling Measured From	PAD	

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

Date	19-FEB-2006		
Run Number	FOUR		
Depth Driller	1915'		
Depth Logger	1915'		
Bottom Logged Interval	1915'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	1630		
Equipment Number	103		
Location	FT.MYERS		
Recorded By	CATHEY		
Witnessed By	D. SAYWACK		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	58.5"	SURFACE	192'				
TWO	46"	SURFACE	847'				
THREE	12.25"	CASING	1915'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	.375 W.T.	SURFACE	188'
Prot. String	36"	.375 W.T	SURFACE	846'
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

OTHER SERVICES:

X-Y CALIPER GAMMA RAY
BOREHOLE COMPENSATED SONIC
BOREHOLE TELEVIEWER
FLOWMETER
FLUID CONDUCTIVITY / TEMPERATURE

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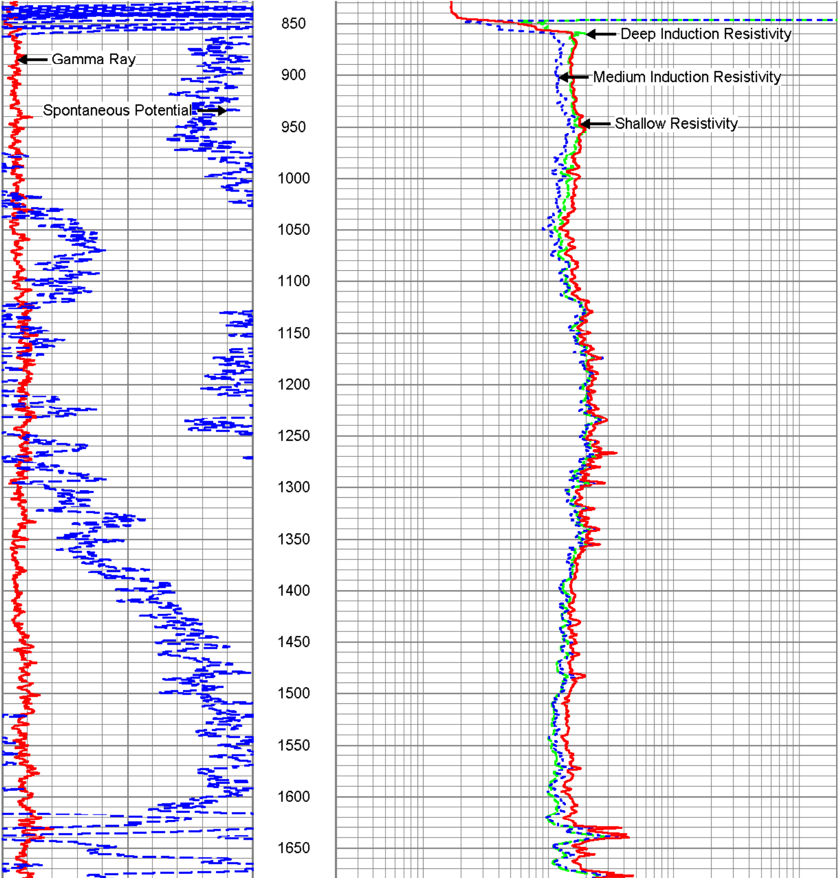
GEOPHYSICAL LOGGING DIVISION

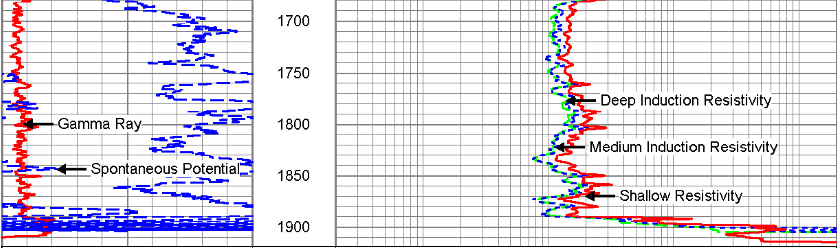
MAIN PASS

Database File: belleiw1.db
Dataset Pathname: run4/pass5
Presentation Format: DIL
Dataset Creation: Sun Feb 19 17:52:20 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200

0	Gamma Ray (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000





0 Gamma Ray (GAPI) 100	0.2 Deep Resistivity (Ohm-m) 2000
-100 Spontaneous Potential (mV) 100	0.2 Medium Resistivity (Ohm-m) 2000
	0.2 Shallow Resistivity (Ohm-m) 2000

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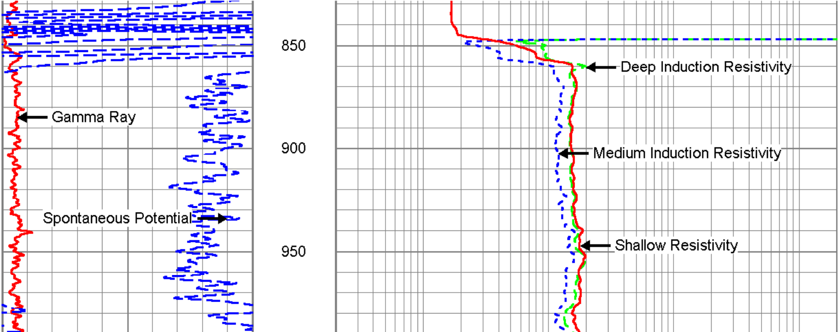
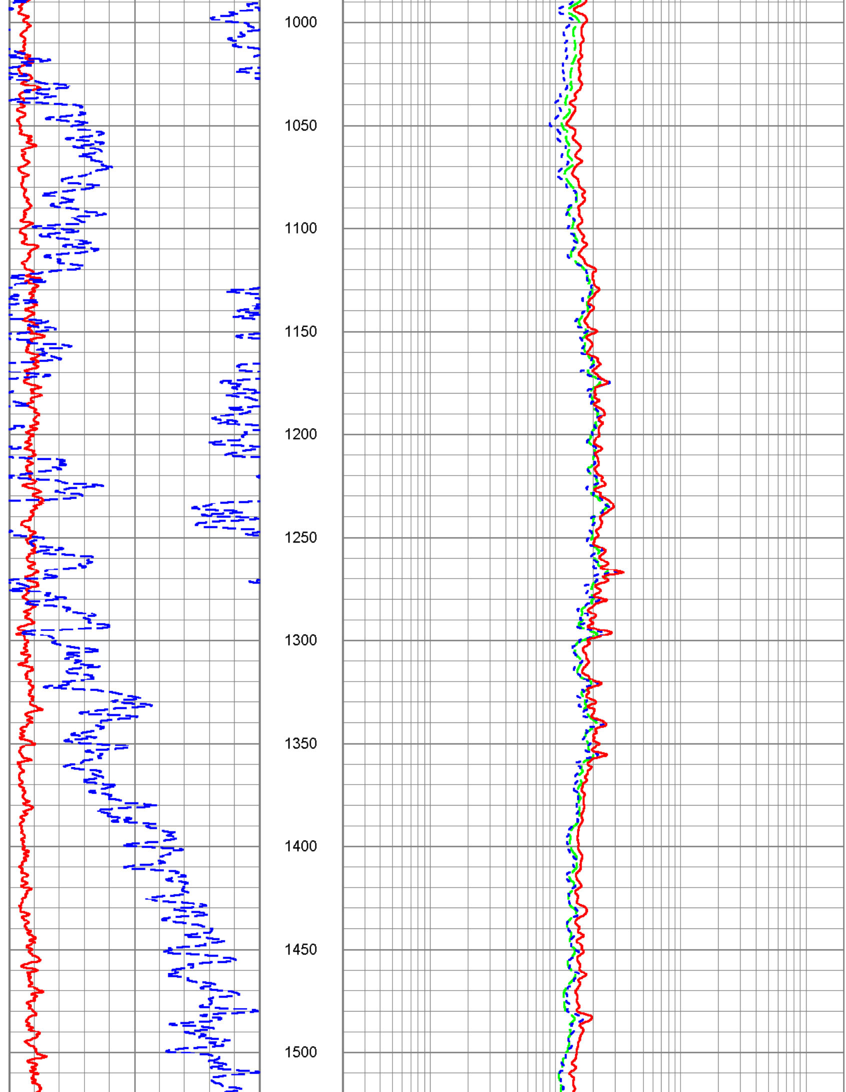
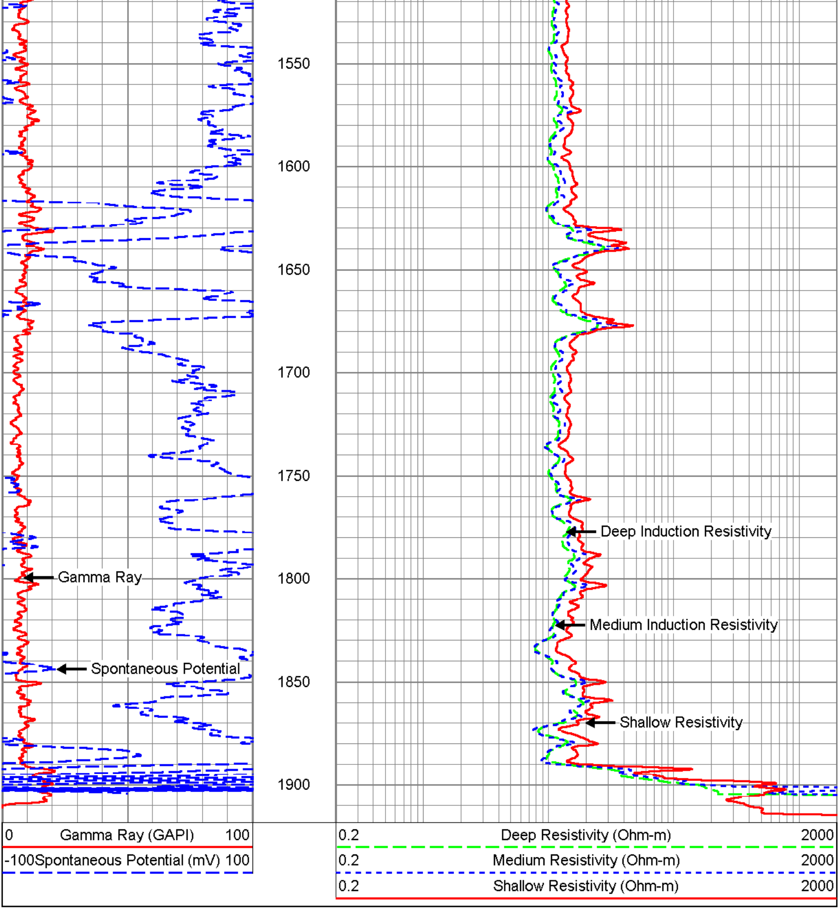
MAIN PASS

Database File:	belleiw1.db
Dataset Pathname:	run4/pass5
Presentation Format:	DIL
Dataset Creation:	Sun Feb 19 17:52:20 2006 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 100	0.2 Deep Resistivity (Ohm-m) 2000
-100 Spontaneous Potential (mV) 100	0.2 Medium Resistivity (Ohm-m) 2000
	0.2 Shallow Resistivity (Ohm-m) 2000







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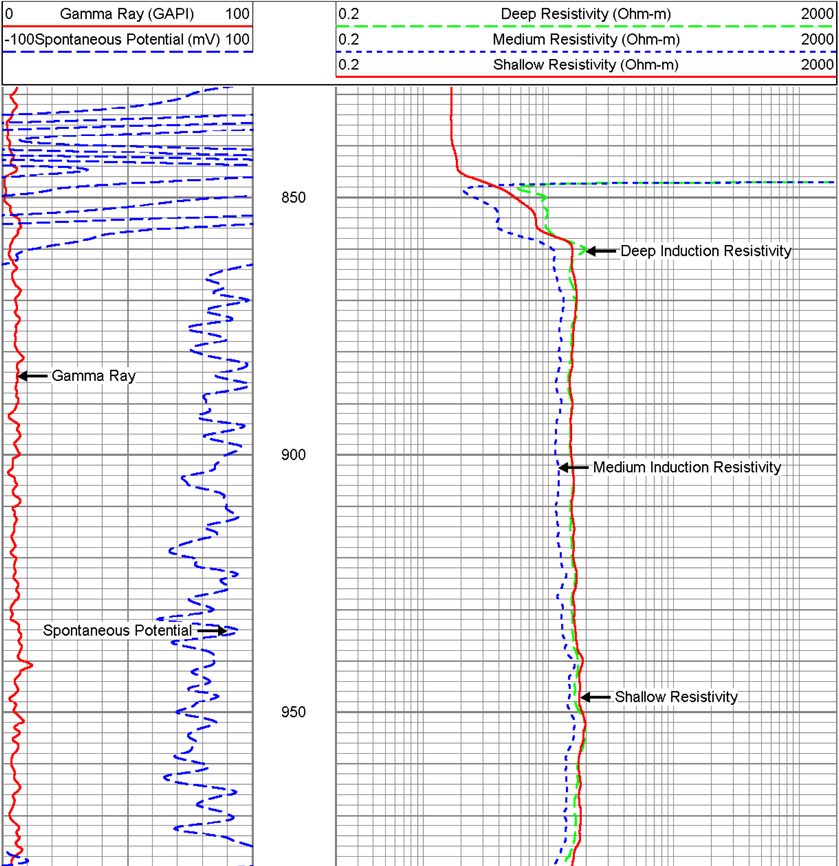
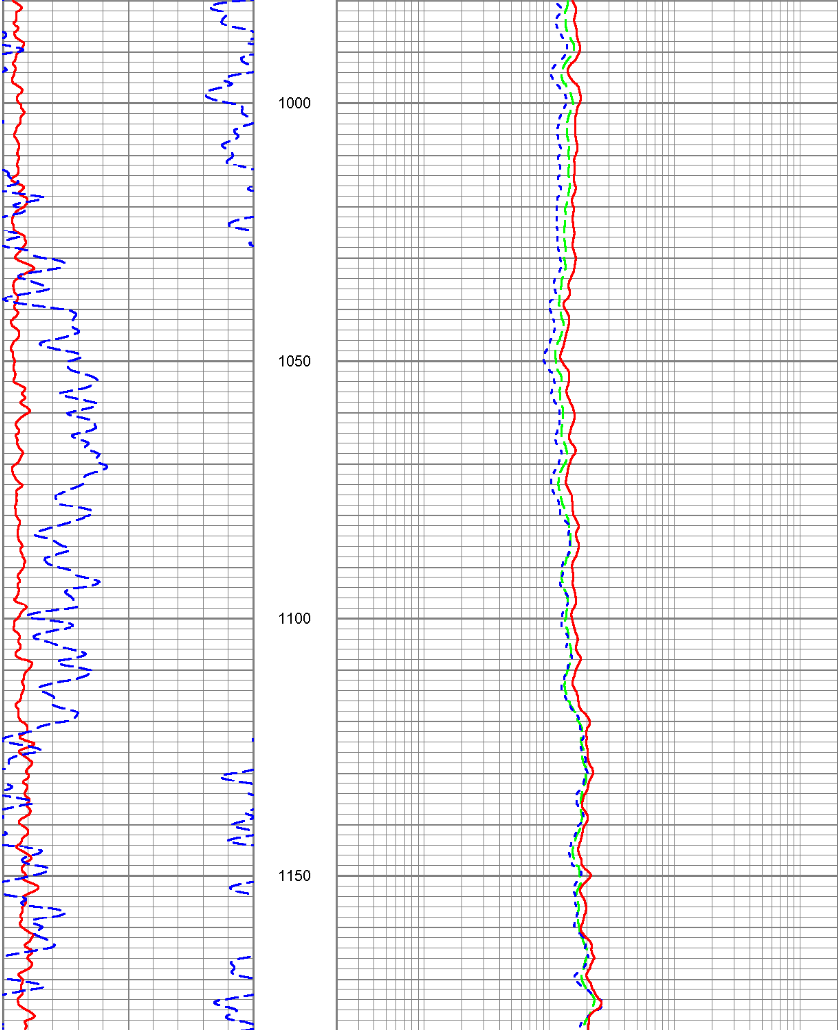
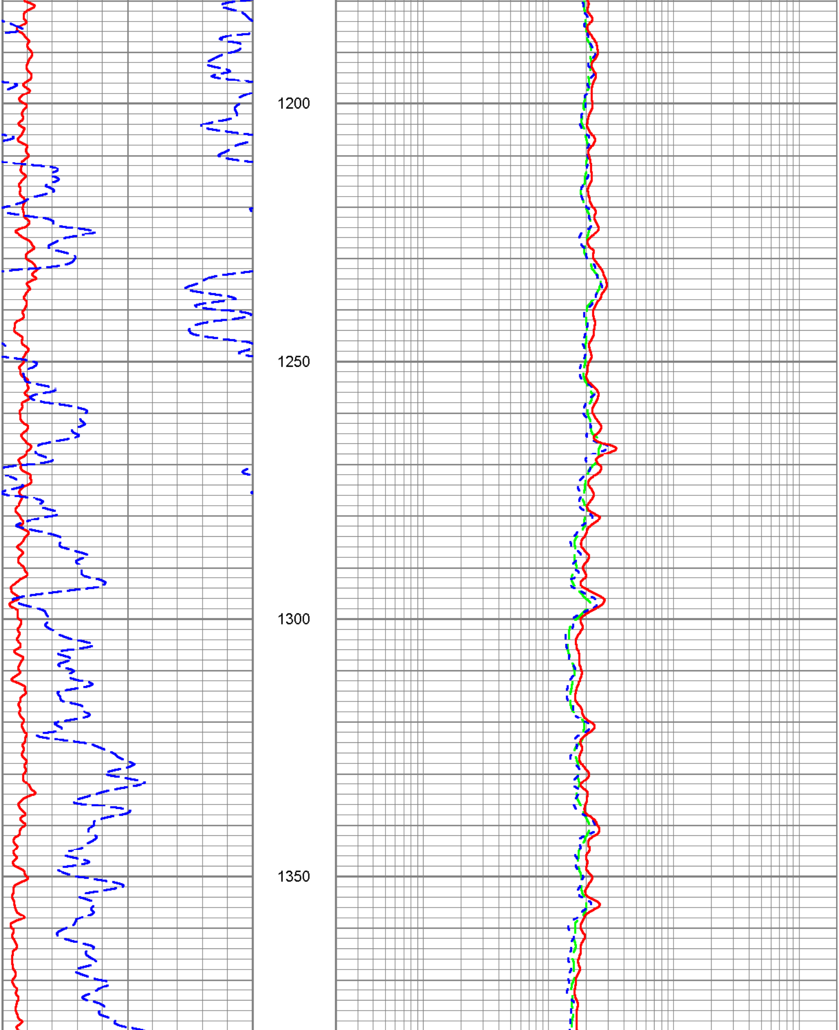
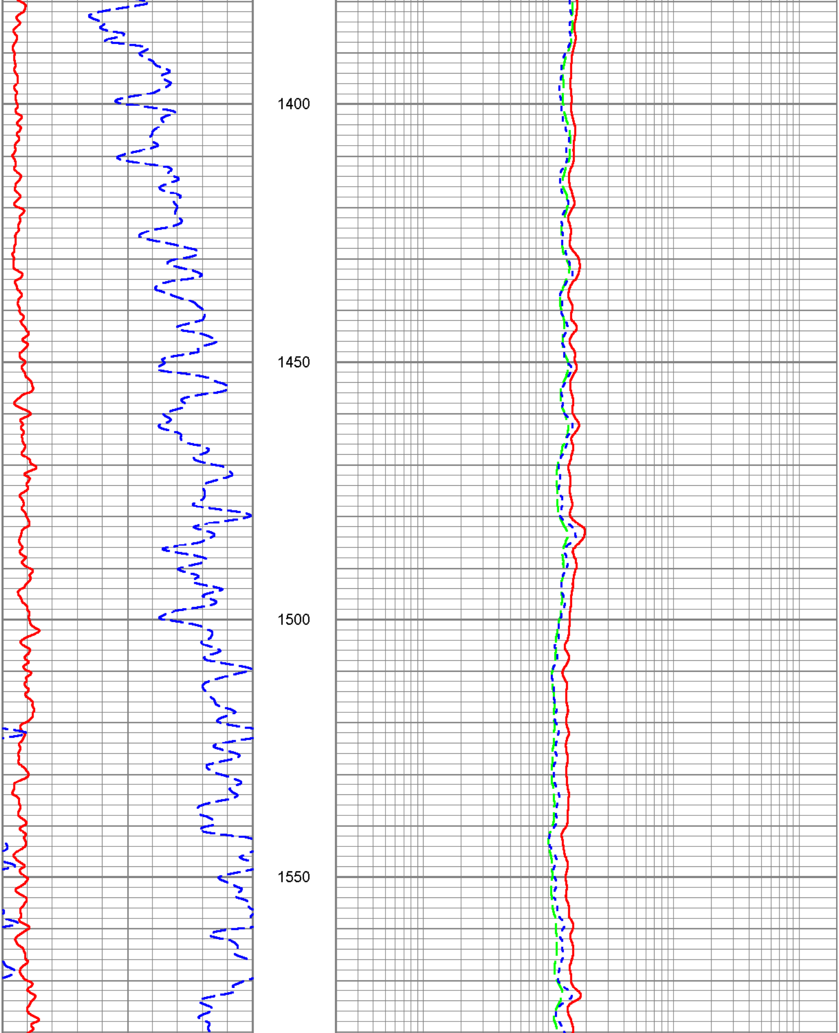
MAIN PASS

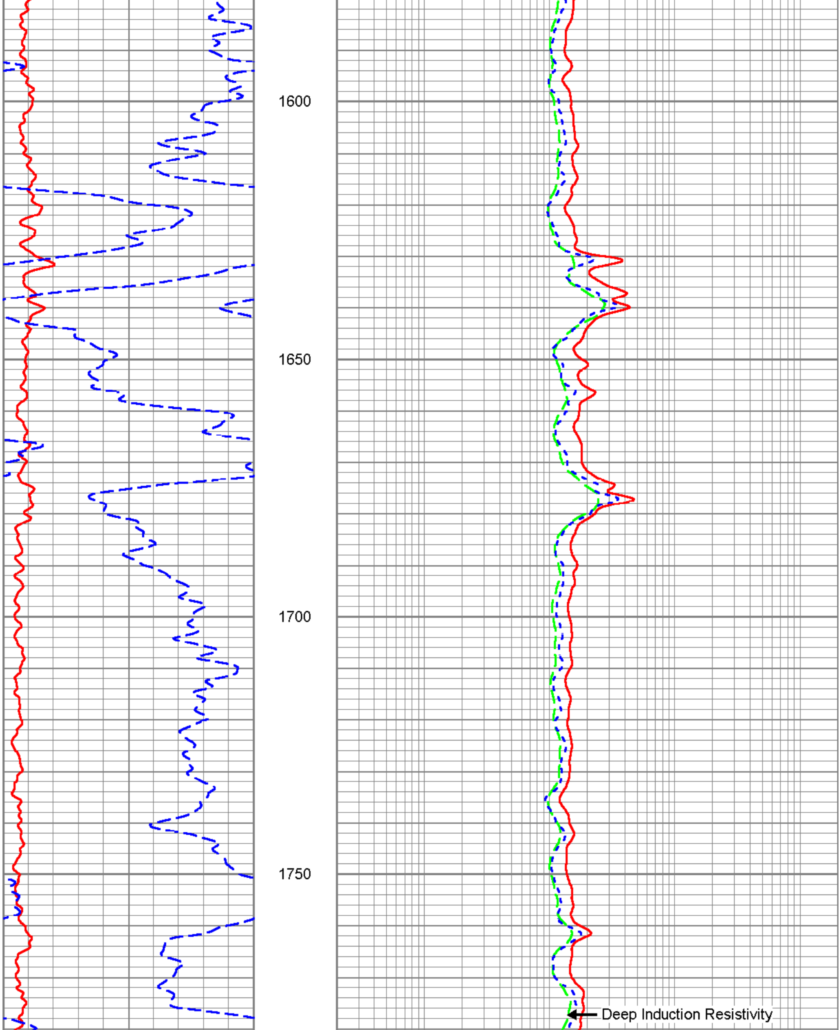
Database File: belleiw1.db
Dataset Pathname: run4/pass5
Presentation Format: DIL
Dataset Creation: Sun Feb 19 17:52:20 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

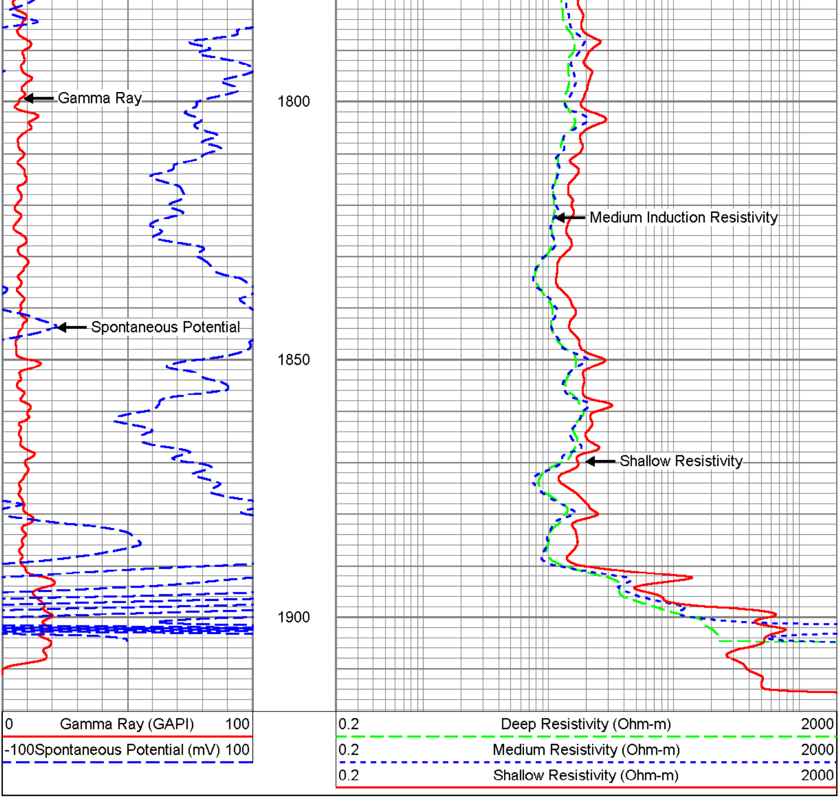












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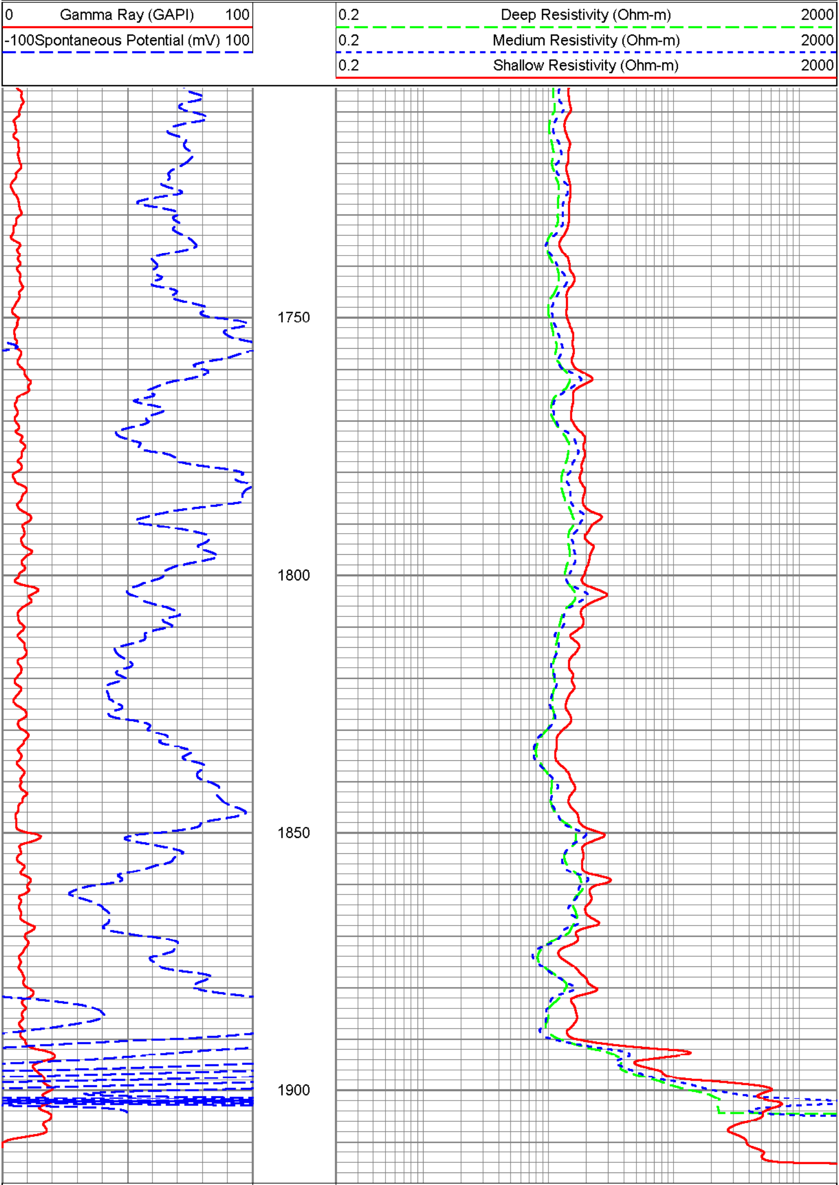
REPEAT PASS

Database File: belleiw1.db
Dataset Pathname: run4/pass4
Presentation Format: DIL
Dataset Creation: Sun Feb 19 17:45:34 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



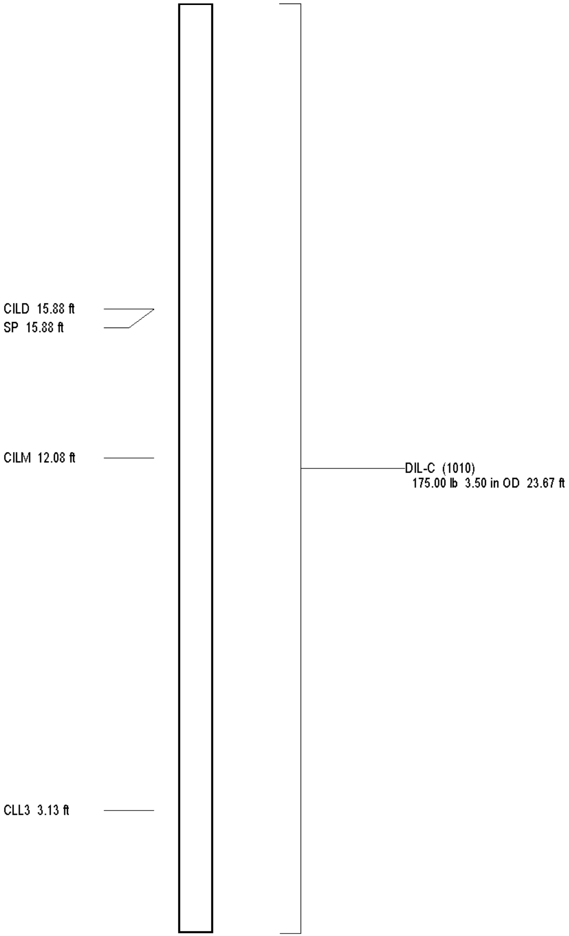
0 Gamma Ray (GAPI) 100

-100 Spontaneous Potential (mV) 100

0.2 Deep Resistivity (Ohm-m) 2000

0.2 Medium Resistivity (Ohm-m) 2000

0.2 Shallow Resistivity (Ohm-m) 2000



Dataset:	run4/CAL
Total Length:	23.67 ft
Total Weight:	175.00 lb
O.D.	3.50 in

Dual Induction Calibration Report

Serial-Model:	1010-C
Surface Cal Performed:	Thu Nov 17 14:49:18 2005
Downhole Cal Performed:	Sun Feb 19 17:32:02 2006
After Survey Verification Performed:	Sun Feb 19 18:07:49 2006

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.005	0.647	V	0.000	400.000	mmho-m	613.288	3.302
Medium	0.010	0.714	V	0.000	464.000	mmho-m	658.369	-6.281
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.009	0.641	V	8.610	397.880	mmho-m	615.374	3.164
Medium	0.007	0.710	V	-1.120	462.890	mmho-m	659.667	-5.714

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	7.939	401.040	mmho-m	8.729	396.680	mmho-m	0.987	0.894
Medium	-1.889	470.257	mmho-m	-1.696	461.400	mmho-m	0.981	0.157
Shallow	0.033	0.422		3.000	88.900	mmho-m	220.400	-4.170

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	7.864	395.703	mmho-m	7.939	401.040	mmho-m	0.987	0.894
Medium	-1.848	460.059	mmho-m	-1.889	470.257	mmho-m	0.981	0.157
Shallow	3.557	89.251	mmho-m	3.000	88.900	mmho-m	1.002	-0.565