The Perforators LLC

SINGLE INDUCTION LOG

Company	Pioneer Natural Resources
Well	Rolls Royce 33-36
Field	Purgatoire River
County	Las Animas
State	Colorado

Company Pioneer Natural Resources
Well Rolls Royce 33-36
Field Purgatoire River
County Las Animas
State Colorado

Location: API # : 05 071 09878 00

2078' FSL & 1824' FEL

SEC 36 TWP 32S RGE 66W

Other Services

CDNL

Permanent Datum	Ground Level	Elevation	7120'
Log Measured From	Kelly Bushing 4' AGL		
Drilling Measured From	Kelly Bushing		

Elevation

K.B. 7124'
D.F. ------
G.L. 7120'

Date	9-18-11		
Run Number	One		
Depth Driller	1810'		
Depth Logger	1807'		
Bottom Logged Interval	1805'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 479'		
Casing Logger	479'		
Bit Size	7 7/8"		
Type Fluid in Hole	Airiated Water		
Density / Viscosity	///		
pH / Fluid Loss	///		
Source of Sample	////		
Rm @ Meas. Temp	////		
Rmf @ Meas. Temp	////		
Rmc @ Meas. Temp	////		
Source of Rmf / Rmc	////		
Rm @ BHT	////		
Time Circulation Stopped	3:00 A.M.		
Time Logger on Bottom	6:00 A.M.		
Maximum Recorded Temperature	90 DEG F		
Equipment Number	T590		
Location	Trinidad		
Recorded By	C. Sisneros		
Witnessed By	Mr. Billy Vigil		

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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.

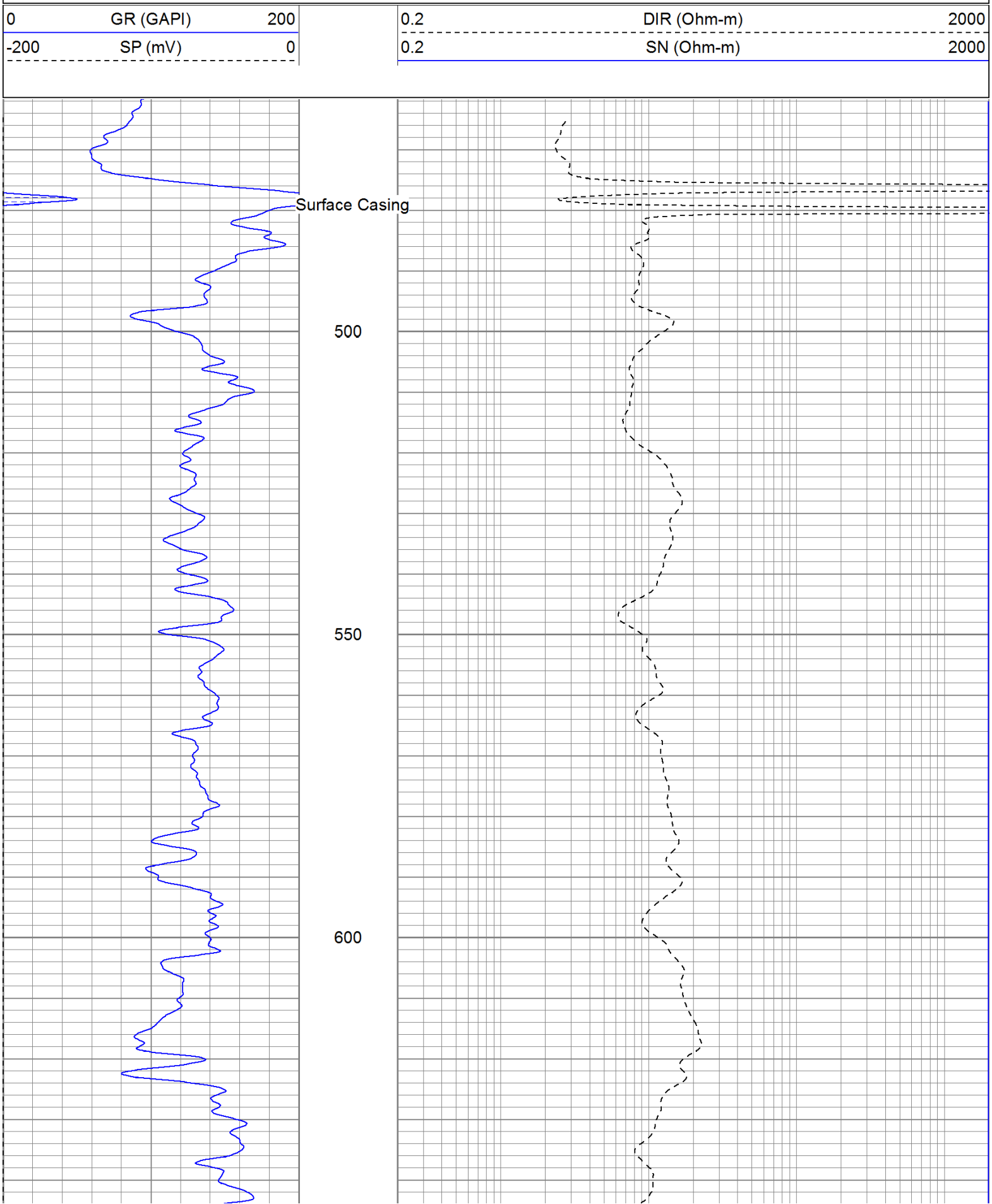
Comments

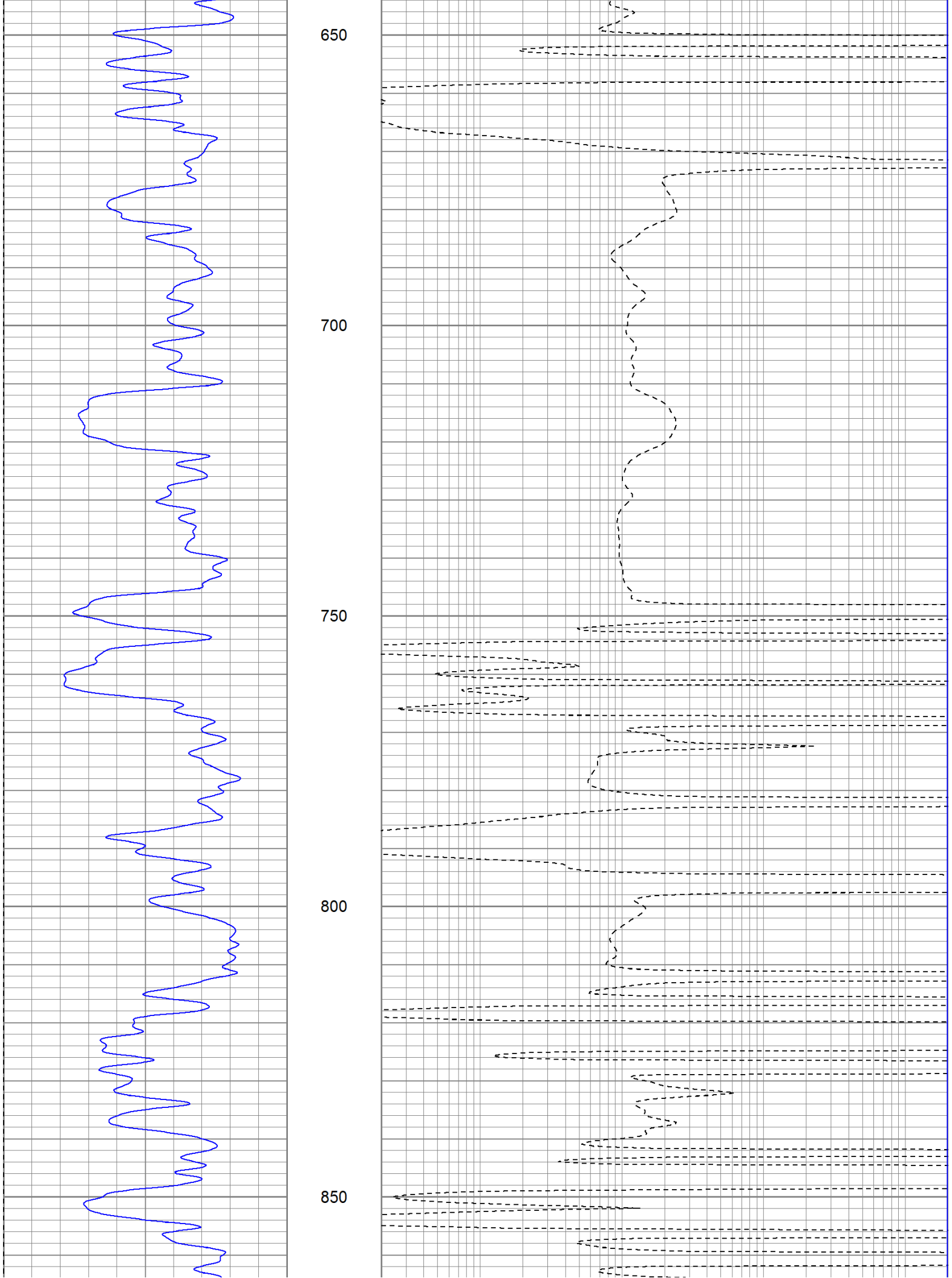
Directions:

Main Pass

The Perforators LLC

Database File: rollsroyce.db
Dataset Pathname: pass2.1
Presentation Format: iel
Dataset Creation: Sun Sep 18 06:57:53 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

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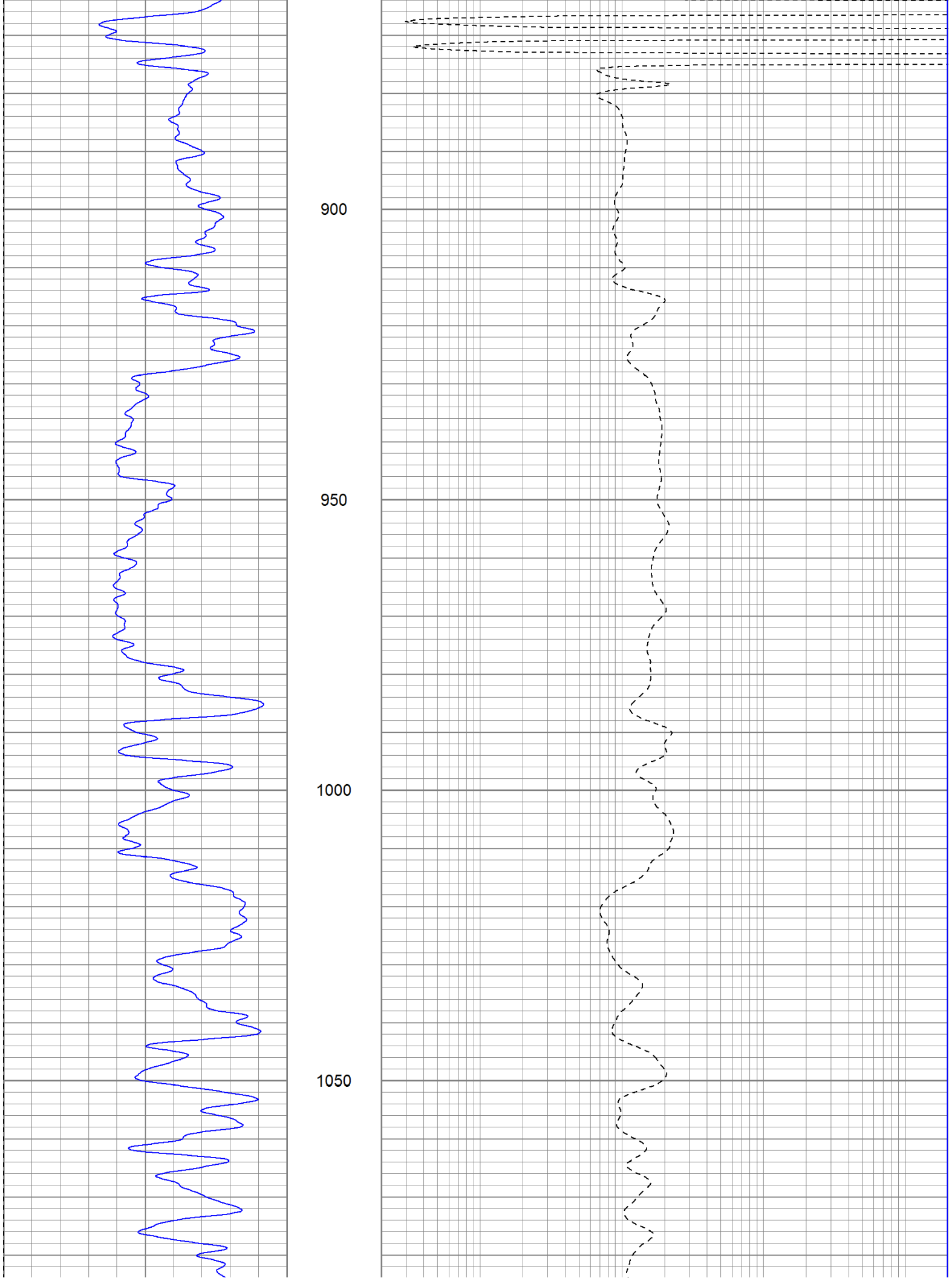
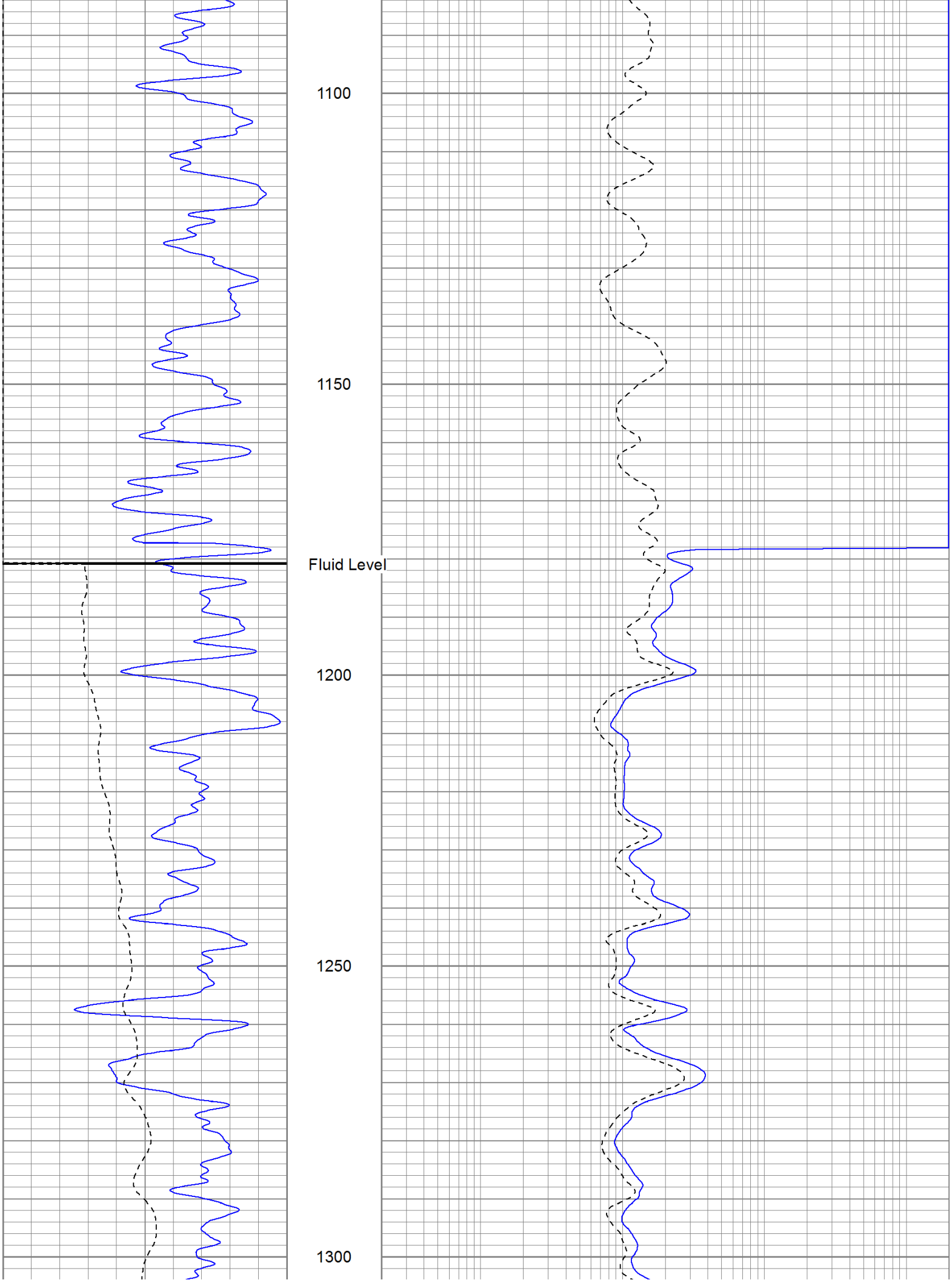
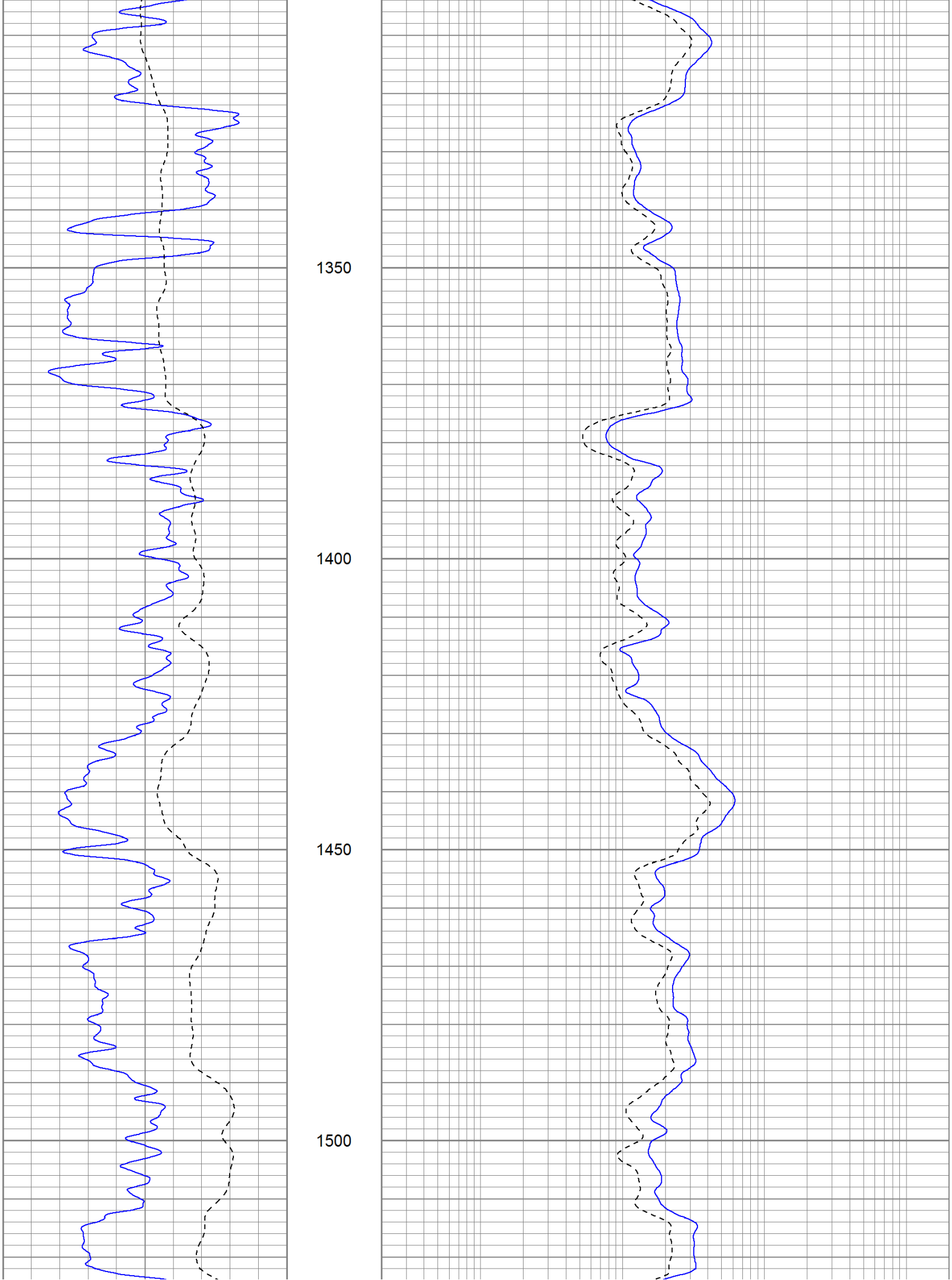
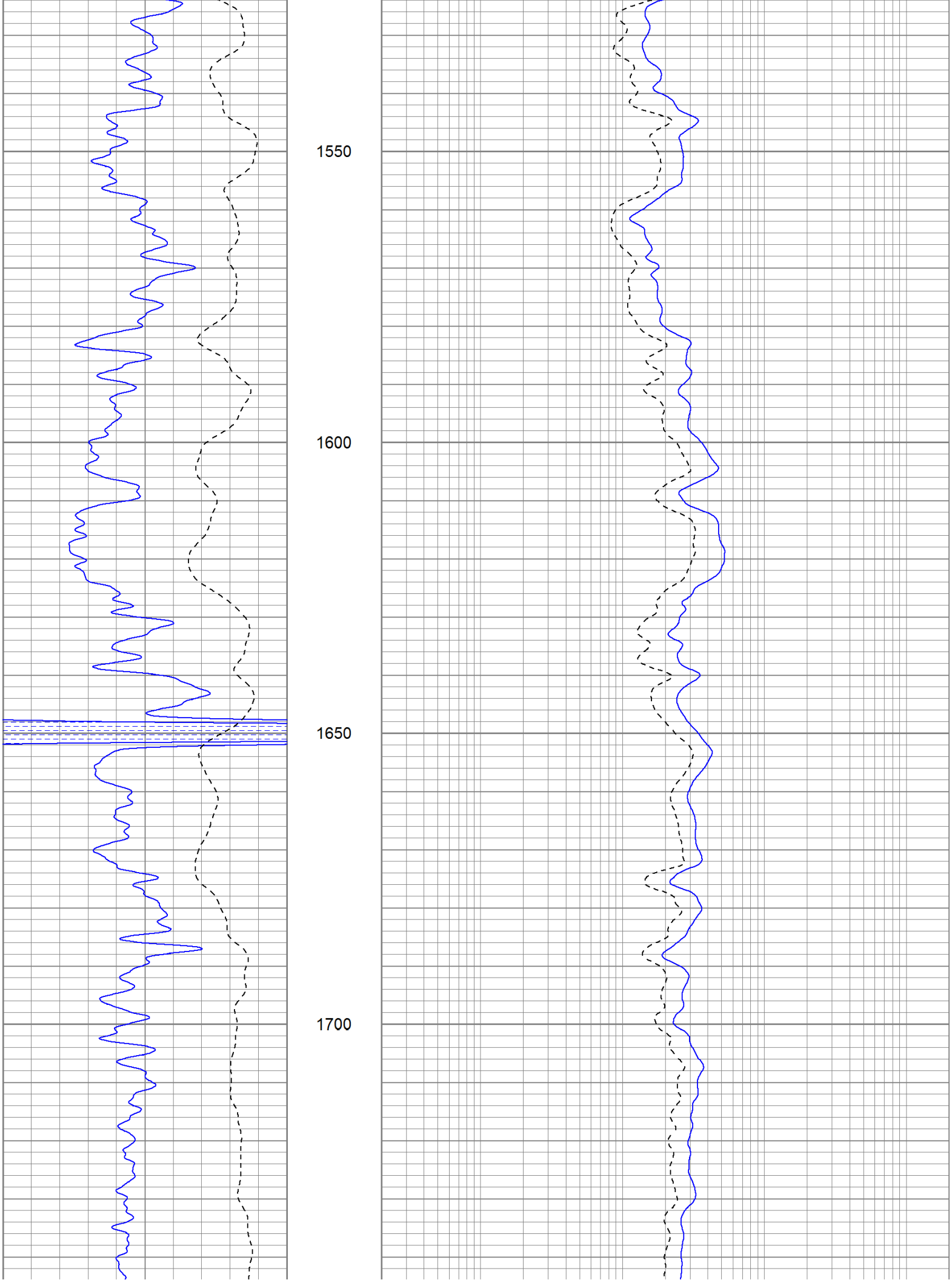
700
750
800
850


900
950
1000
1050


1100
1150
Fluid Level
1200
1250
1300


1350
1400
1450
1500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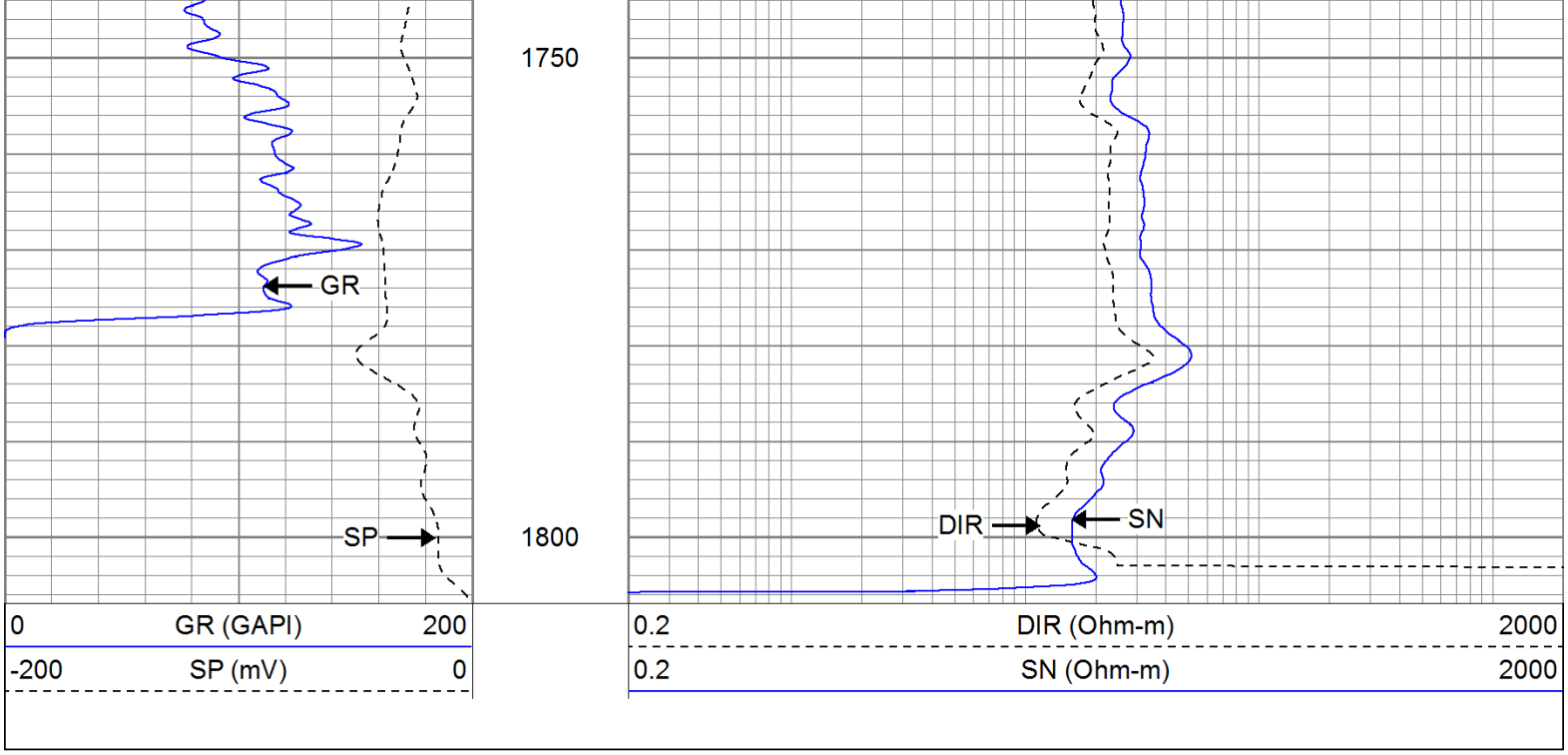
1600
1650
1700



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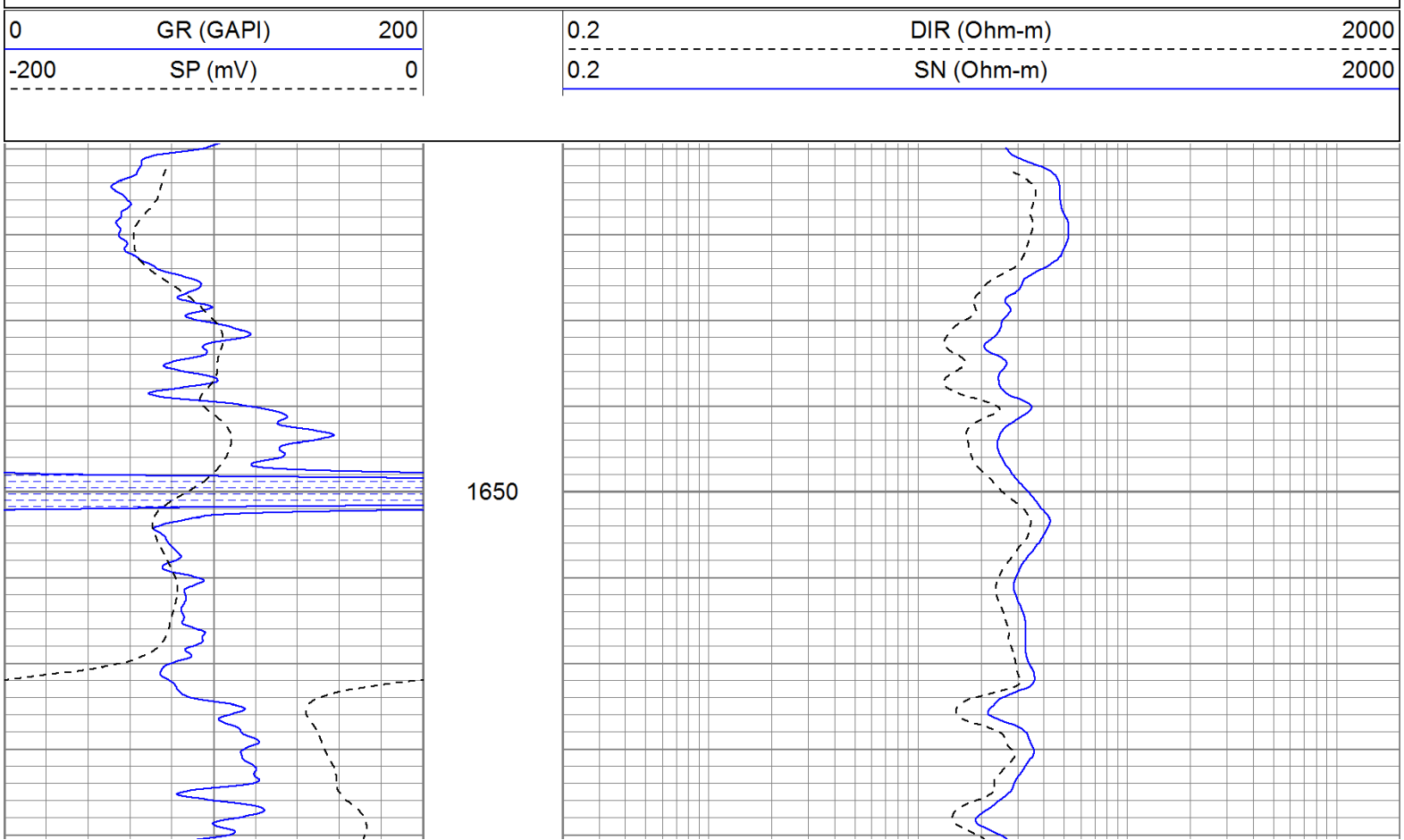
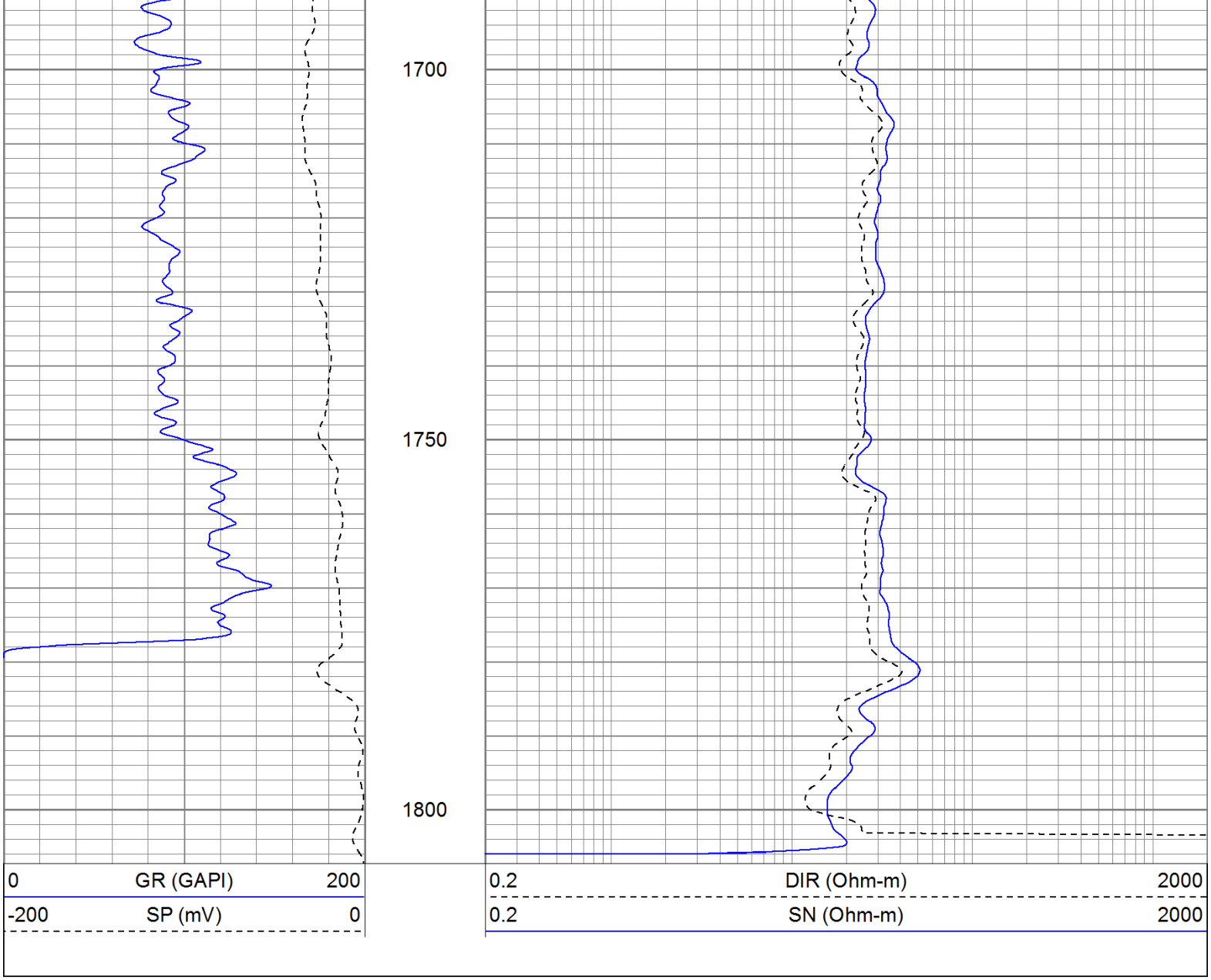
Repeat Pass

Database File:	rollsroyce.db
Dataset Pathname:	pass1.1
Presentation Format:	iel
Dataset Creation:	Sun Sep 18 06:56:26 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File:	rollsroyce.db
Dataset Pathname:	pass1
Dataset Creation:	Sun Sep 18 06:01:30 2011 by Log Open-Cased 110302

Induction Tool Calibration Report

Serial Number:	903
Tool Model:	Probe
Downhole Cal Performed:	Mon Aug 29 09:43:41 2011
Surface Cal Performed:	Mon Aug 29 13:58:06 2011
After Survey Verification Performed:	

Surface Calibration:	Air	Loop	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	-0.045	0.642	V
Internal Reference:	Zero	Cal	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	0.006	0.641	V

Downhole Calibration:	Internal Zero	Internal Cal	
Conductivity Reference:	-0.702	499.904	mmho
Conductivity Reading:	-0.082	503.319	V
Short Normal Reference:	0.000	20.000	Ohm-m
Short Normal Reading:	0.006	0.233	V

Results:	Gain	Offset
Loop Conductivity:	728.211	32.770
Downhole Correction:	0.994	-0.621
Short Normal Resistivity:	88.245	-3.000

After Survey Verification	Internal Zero	Internal Cal	
Conductivity Reading:	0.000	0.000	V
Conductivity Result:	0.000	0.000	mmho
Short Normal Reading:	0.000	0.000	V
Short Normal Result:	0.000	0.000	Ohm-m

Compensated Density Calibration Report

Serial-Model:	901-2.75POH
Source / Verifier:	/
Master Calibration Performed:	Mon Aug 29 11:08:43 2011
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1001.79	578.48	cps
Aluminum	2.590	g/cc	180.36	300.39	cps

Spine Angle = 69.08 Density/Spine Ratio = 0.479

	Size		Reading	
Small Ring	8.00	in	2.50	V
Large Ring	16.00	in	4.57	V

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Neutron Calibration Report

Serial Number:	803	
Tool Model:	2.75POH	
Performed:	Fri Sep 02 07:59:19 2011	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report

Serial Number:	804	
Tool Model:	2.75POH	
Performed:	Fri Aug 12 08:39:59 2011	
Calibrator Value:	1.0	GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
GR	29.58		GR-2.75POH (804) Probe 2.75" Probe Open Hole Gamma Ray	3.73	2.75	43.00
NEU	24.04		NEU-2.75POH (803) Probe Epithermal	4.75	2.75	58.00
			CDL-2.75POH (901) Probe	8.43	2.75	106.00
LSD	16.21					
DCAL	15.94					
SSD	15.69					
DIC	6.24		IEL-Probe (903)	13.46	2.75	93.00
SP	2.25					
SN	1.71					

Dataset:	rollsroyce.db: field/well/run1/pass1
Total Length:	31.11 ft
Total Weight:	305.00 lb
O.D.	2.75 in