The Perforators LLC

SINGLE INDUCTION LOG

Company Pioneer Natural Resources
Well Larissa 32-35
Field Purgatoire River
County Las Animas
State Colorado

Company Pioneer Natural Resources

Well Larissa 32-35

Field Purgatoire River

County Las Animas State Colorado

Location: API # : 05 071 09856 00

2611' FNL & 1685' FEL

SEC 35 TWP 32S RGE 68W

Other Services

CDNL

Elevation

K.B. 8003'
D.F. ------
G.L. 7994'

Permanent Datum Ground Level Elevation 7994'
Log Measured From Kelly Bushing 9' AGL
Drilling Measured From Kelly Bushing

Date	10-9-11		
Run Number	One		
Depth Driller	2580'		
Depth Logger	2580'		
Bottom Logged Interval	2578'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 689'		
Casing Logger	688'		
Bit Size	7 7/8"		
Type Fluid in Hole	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	8:30 P.M.		
Time Logger on Bottom	2:30 A.M.		
Maximum Recorded Temperature	96 DEG F		
Equipment Number	T590		
Location	Trinidad		
Recorded By	C. Sisneros		
Witnessed By	Mr. Derrick Berry		

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Comments

Main Pass

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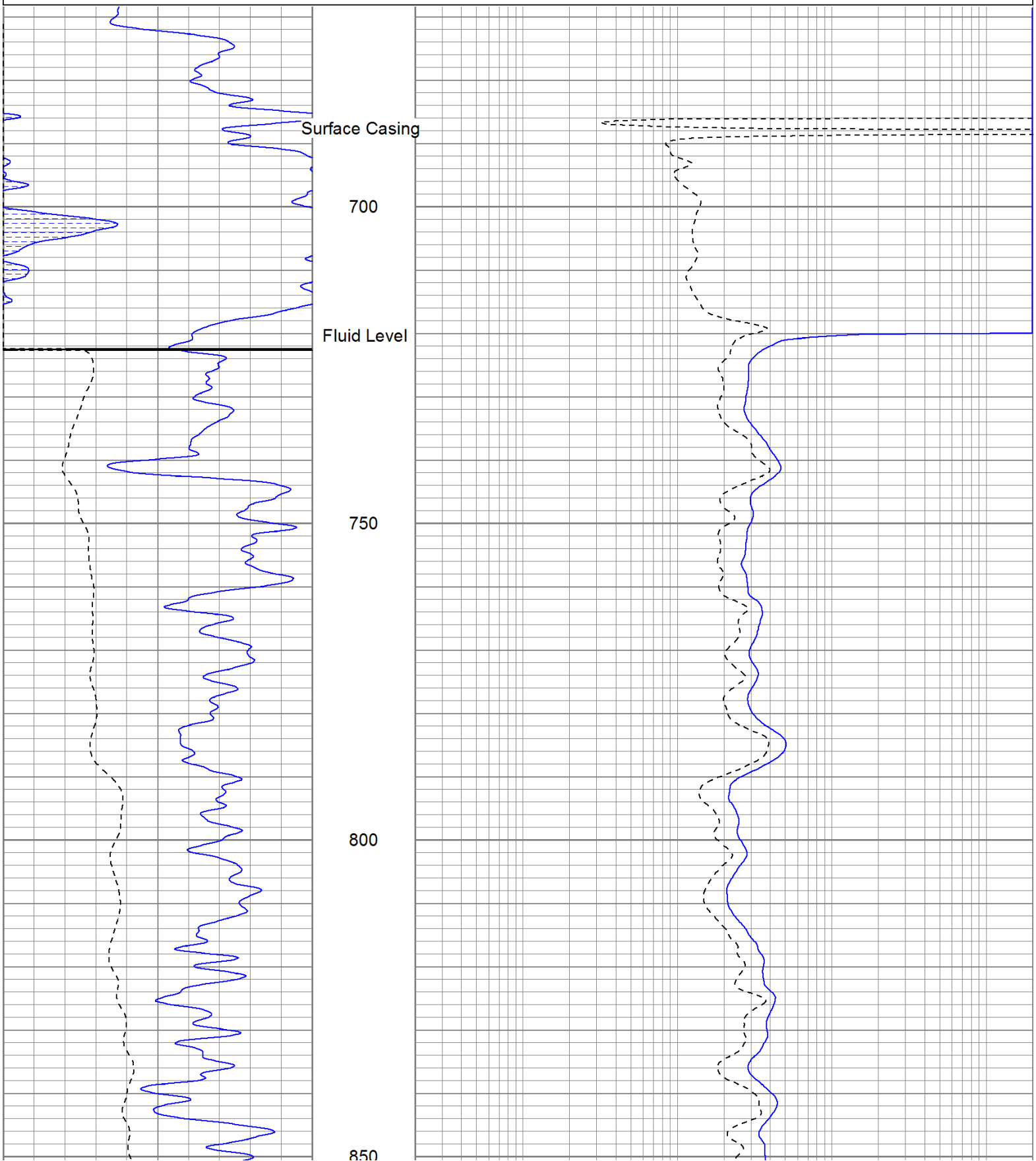
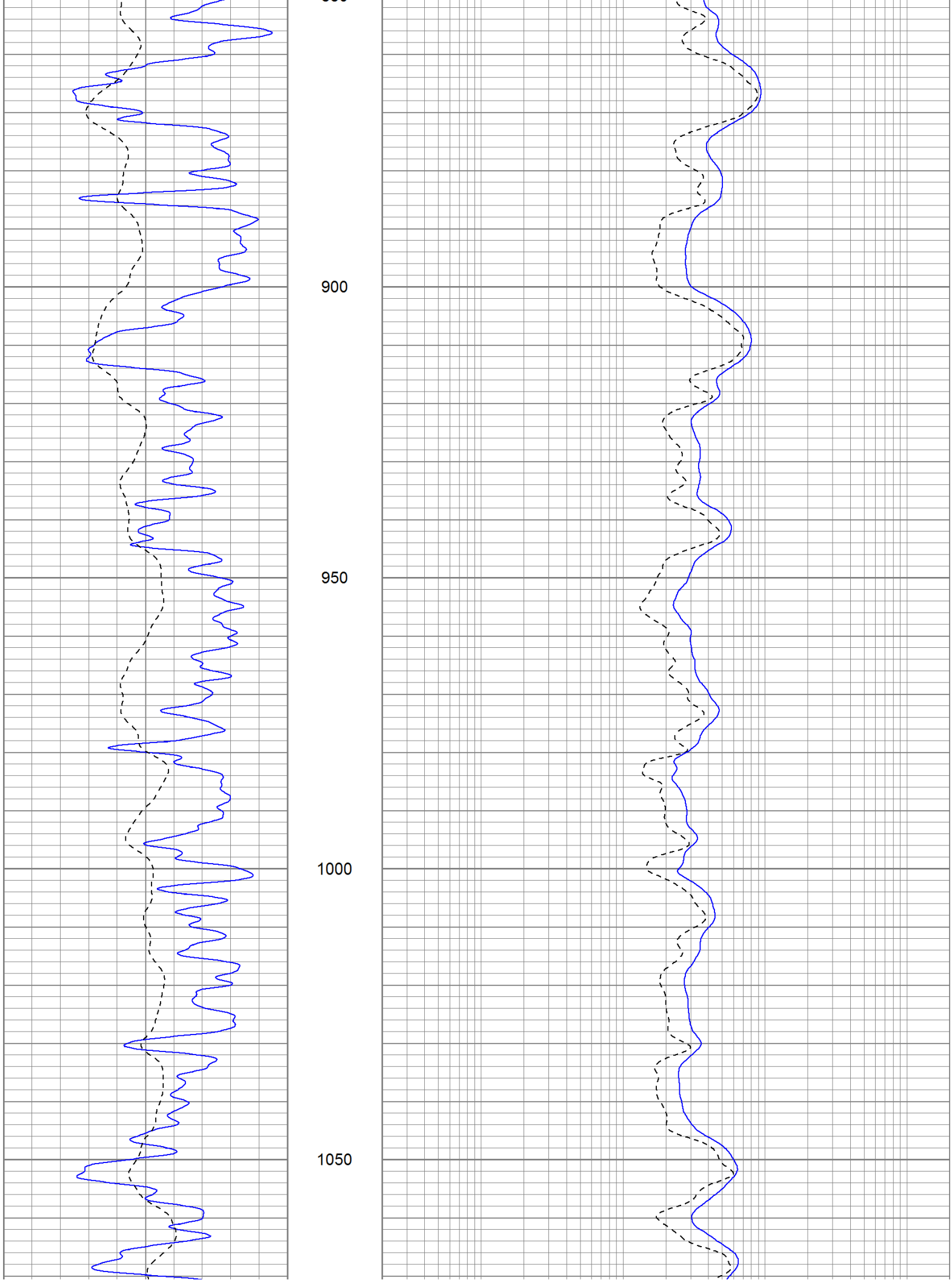
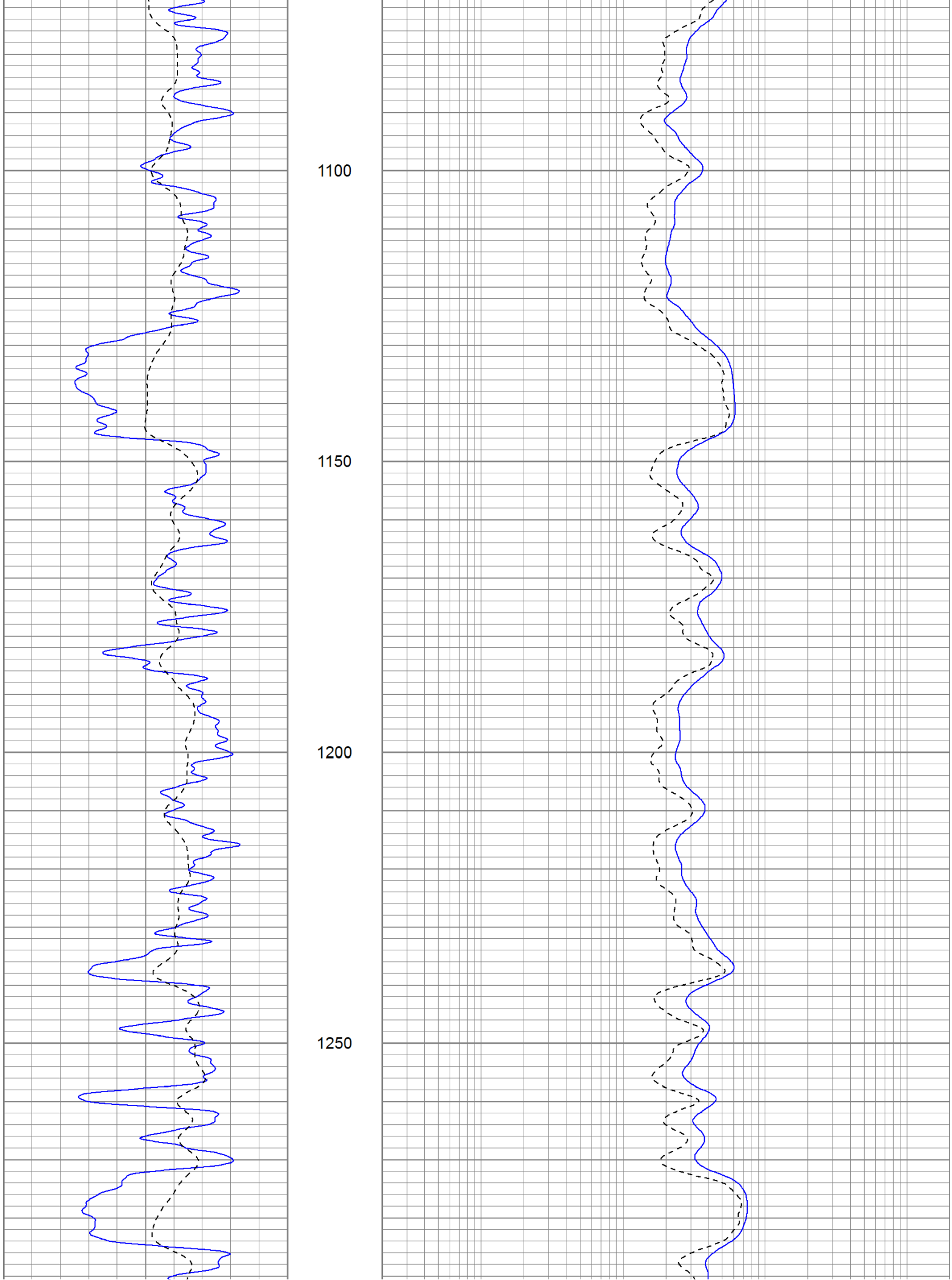
Database File:	larissa.db
Dataset Pathname:	pass2.1
Presentation Format:	iel
Dataset Creation:	Sun Oct 09 03:43:31 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

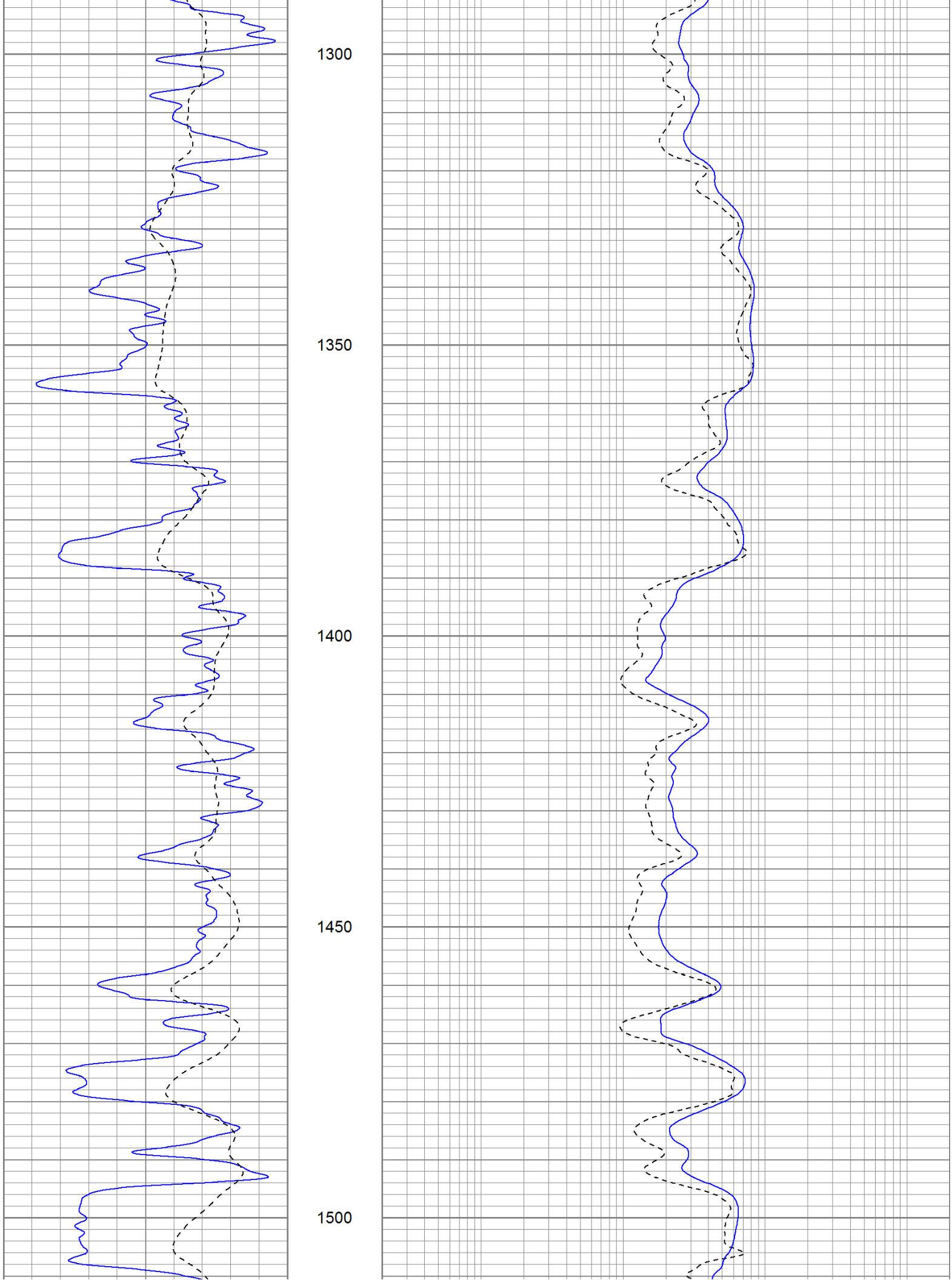
0	GR (GAPI)	200
-200	SP (mV)	0

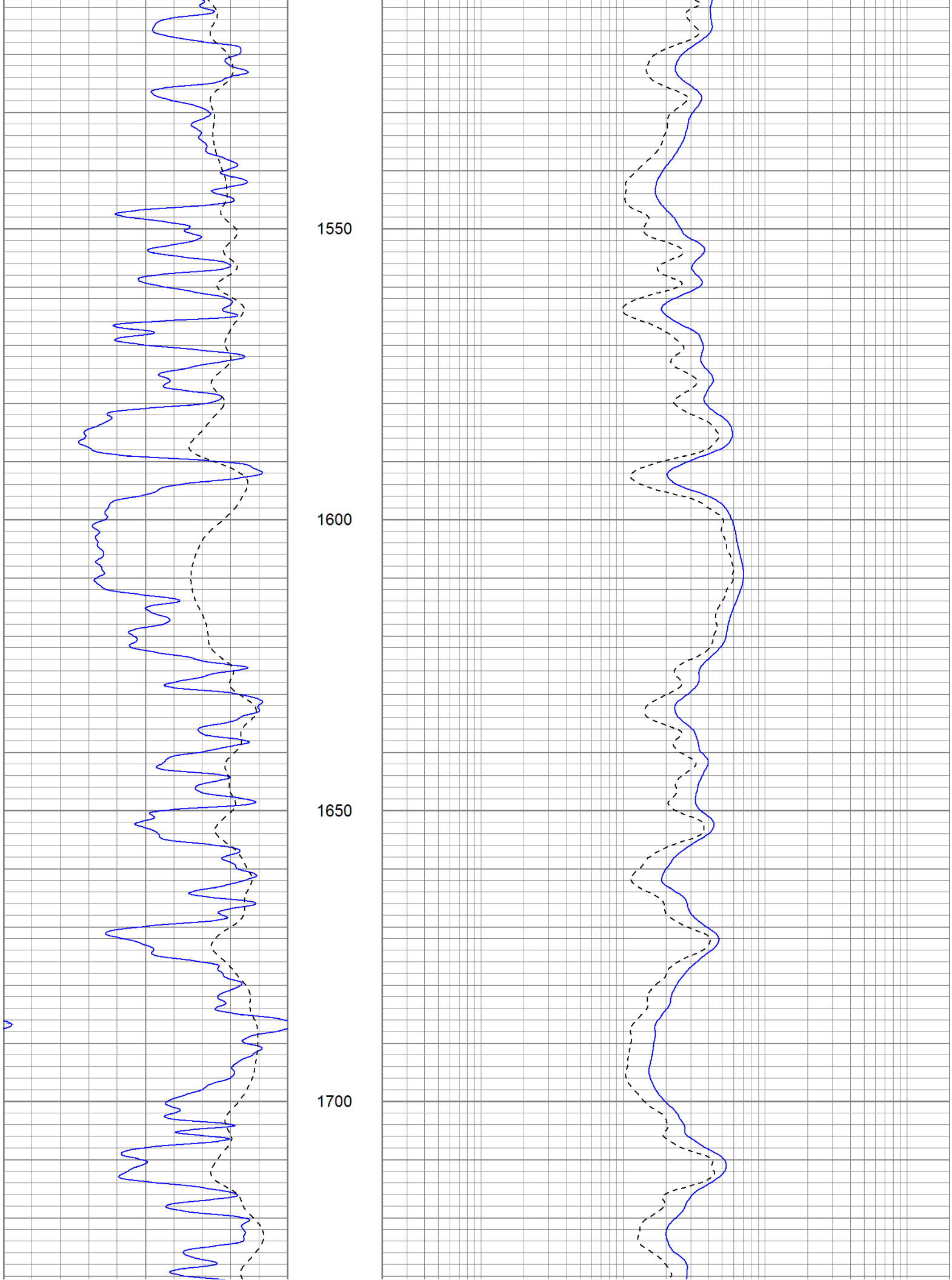
0.2	DIR (Ohm-m)	2000
0.2	SN (Ohm-m)	2000

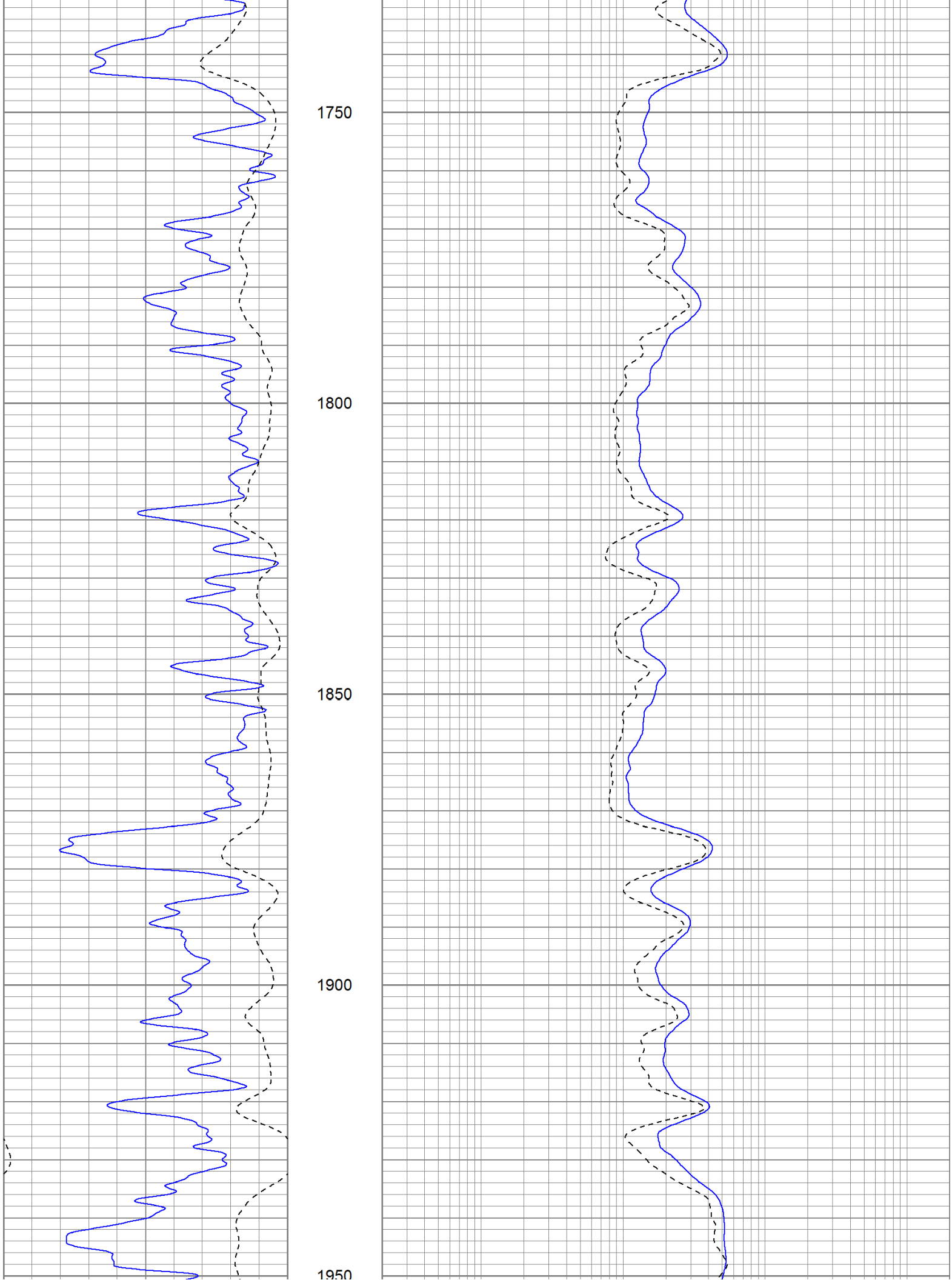


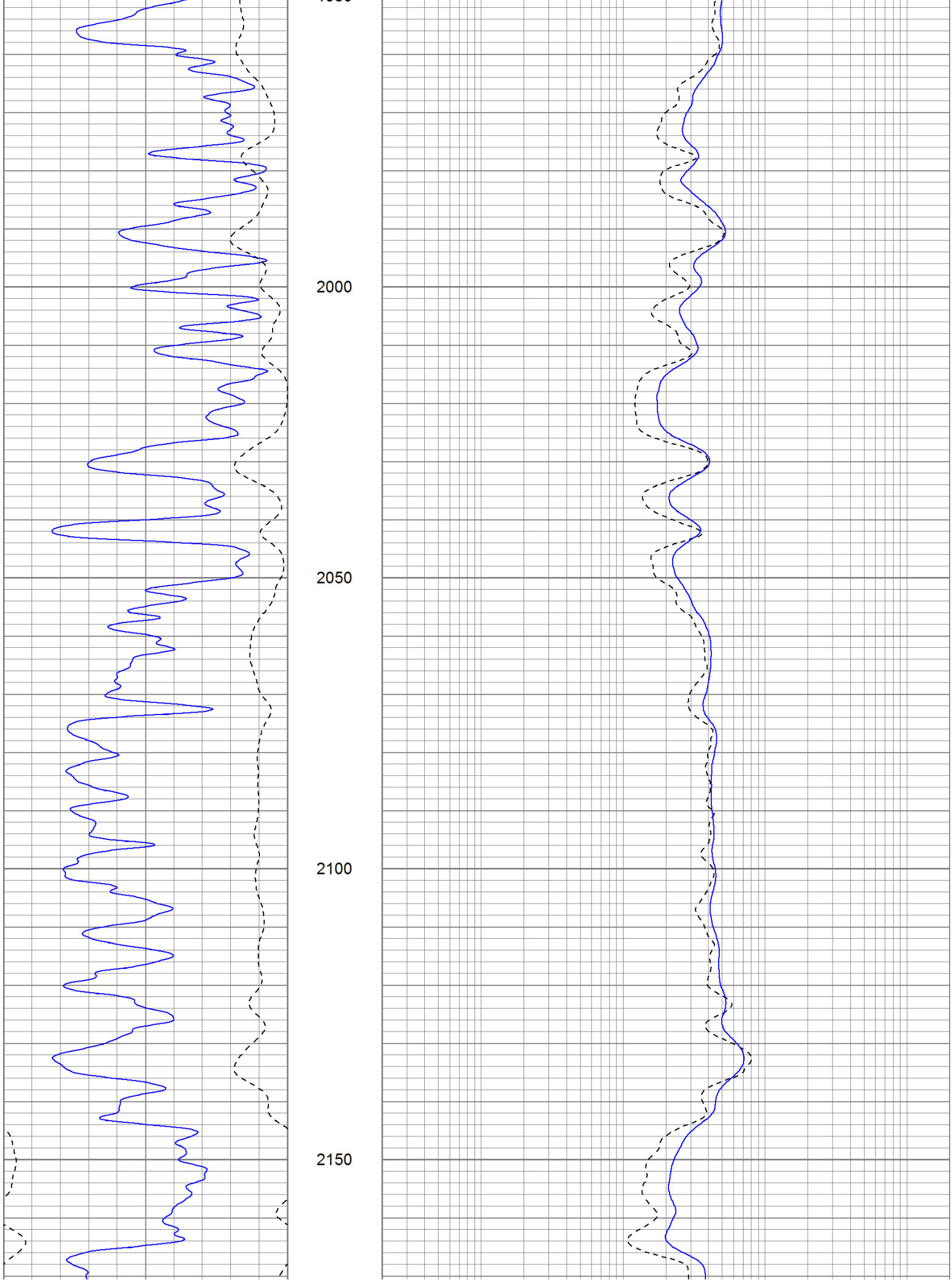

900
950
1000
1050


1100
1150
1200
1250


1300
1350
1400
1450
1500


1550
1600
1650
1700


1750
1800
1850
1900
1950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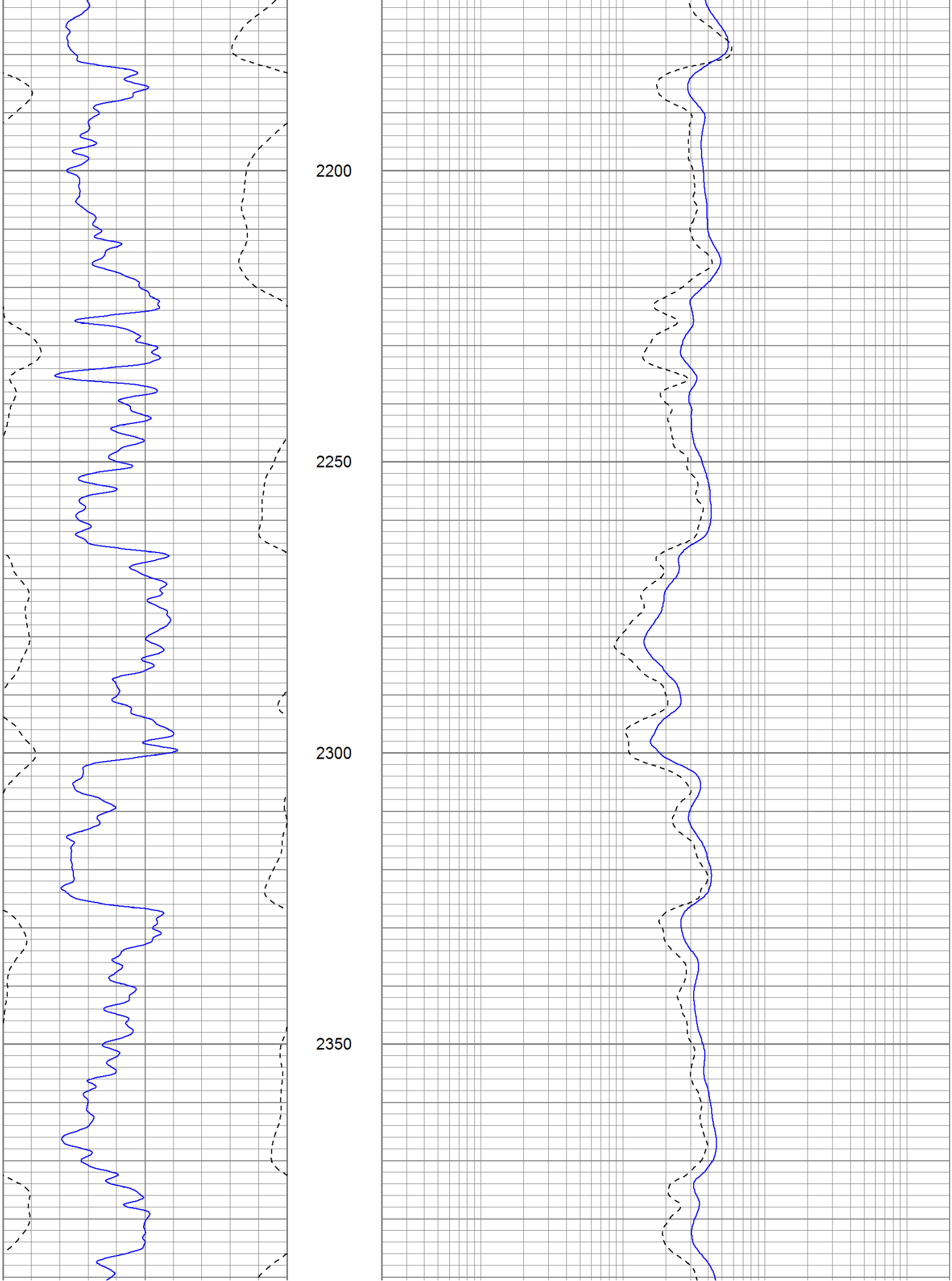
2050
2100
2150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2250
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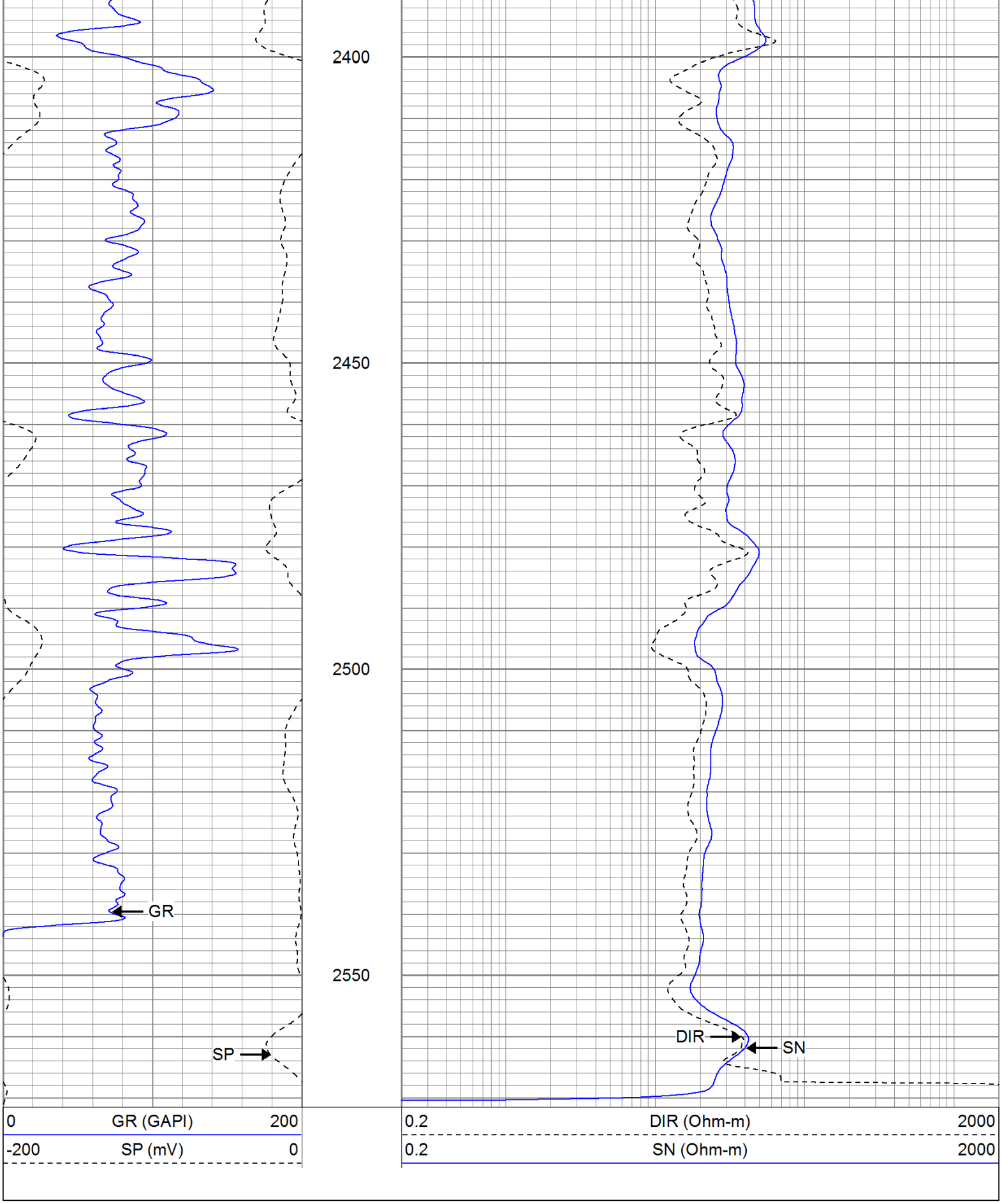

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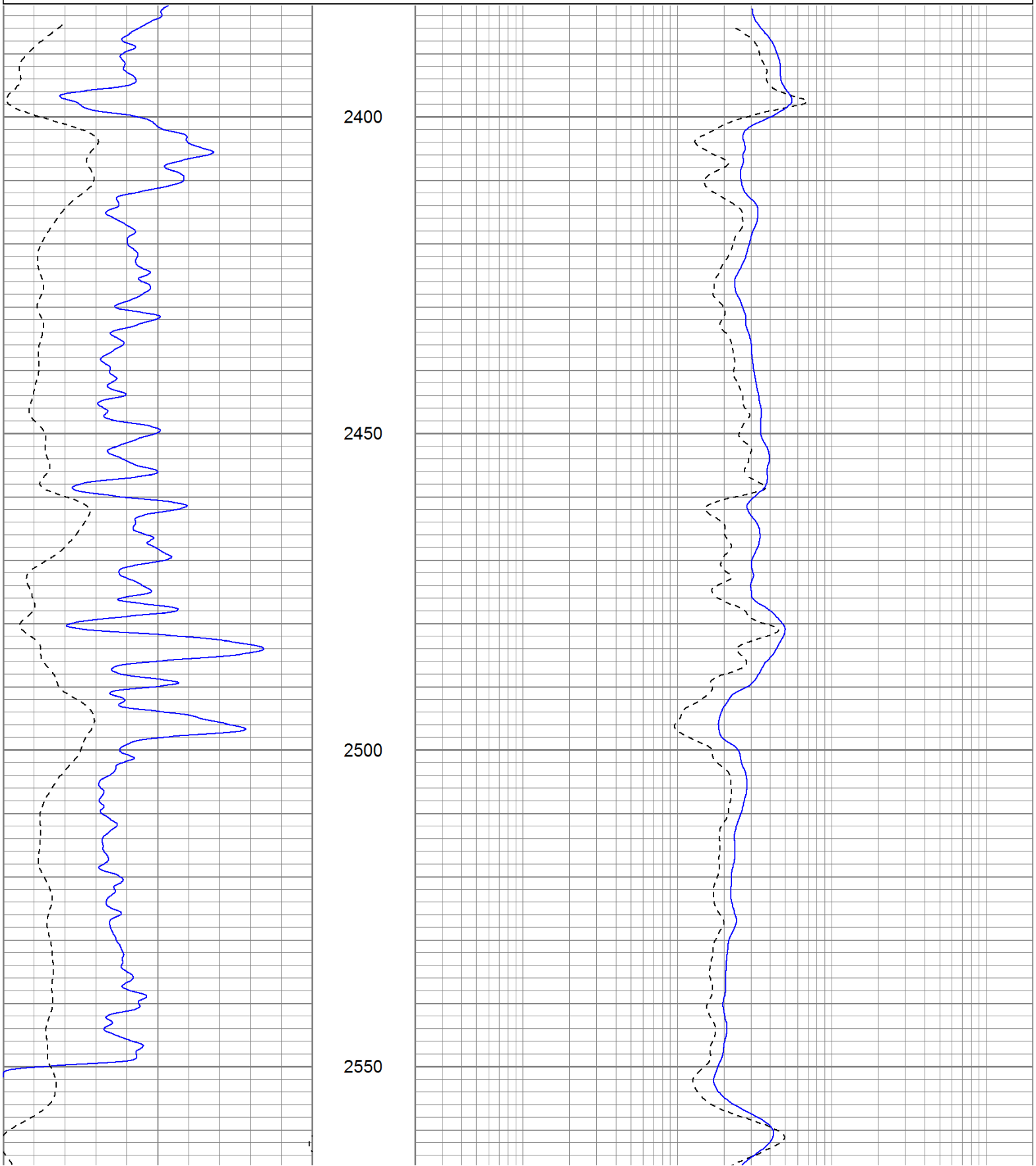
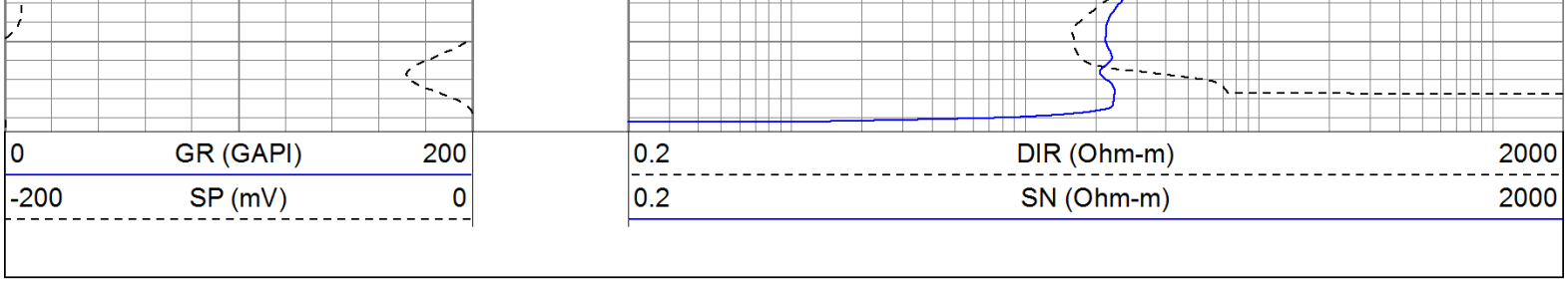
Repeat Pass

Database File:	larissa.db
Dataset Pathname:	pass1.1
Presentation Format:	iel
Dataset Creation:	Sun Oct 09 03:48:26 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	200
-200	SP (mV)	0

0.2	DIR (Ohm-m)	2000
0.2	SN (Ohm-m)	2000





Calibration Report

Database File: larissa.db
Dataset Pathname: pass1
Dataset Creation: Sun Oct 09 02:27:40 2011 by Log Open-Cased 110302

Induction Tool Calibration Report

Serial Number:	701			
Tool Model:	Probe			
Downhole Cal Performed:	Wed Jun 08 22:14:25 2011			
Surface Cal Performed:	Wed Jun 08 22:14:40 2011			
After Survey Verification Performed:				
Surface Calibration:	Air	Loop		
Conductivity Reference:	0.000	500.000	mmho	
Conductivity Reading:	0.006	0.644	V	
Internal Reference:	Zero	Cal		
Conductivity Reference:	0.000	500.000	mmho	
Conductivity Reading:	0.007	0.643	V	
Downhole Calibration:	Internal Zero	Internal Cal		
Conductivity Reference:	0.703	499.163	mmho	
Conductivity Reading:	0.000	0.000	V	
Short Normal Reference:	0.000	20.000	Ohm-m	
Short Normal Reading:	0.005	0.214	V	
Results:	Gain	Offset		
Loop Conductivity:	783.886	-4.674		
Downhole Correction:	1.000	0.000		
Short Normal Resistivity:	95.281	0.050		
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	8.30	in	2.50	V
Large Ring	16.00	in	4.57	V

Large Ring

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 (701)	13.46	2.75	93.00
SP	2.25					
SN	1.71					

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