

Company		Pioneer Natural Resources	
Well	Gremlin 23-35		
Field	Purgatoire River		
County	Las Animas	State	Colorado
Location:		API #: 05 071 09769 00	
SEC 35 TWP 32S RGE 66W		CDNL	
Permanent Datum	Ground Level	Elevation	7154'
Log Measured From	Kelly Bushing 4' AGL		
Drilling Measured From	Kelly Bushing		
Date	11-2-11		
Run Number	One		
Depth Driller	2022'		
Depth Logger	2021'		
Bottom Logged Interval	2019'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 496'		
Casing Logger	496'		
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	9:00 A.M.		
Time Logger on Bottom	12:00 P.M.		
Maximum Recorded Temperature	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:

Database File: gremlin.db
Dataset Pathname: pass2.1
Presentation Format: iel
Dataset Creation: Wed Nov 02 13:10:17 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

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

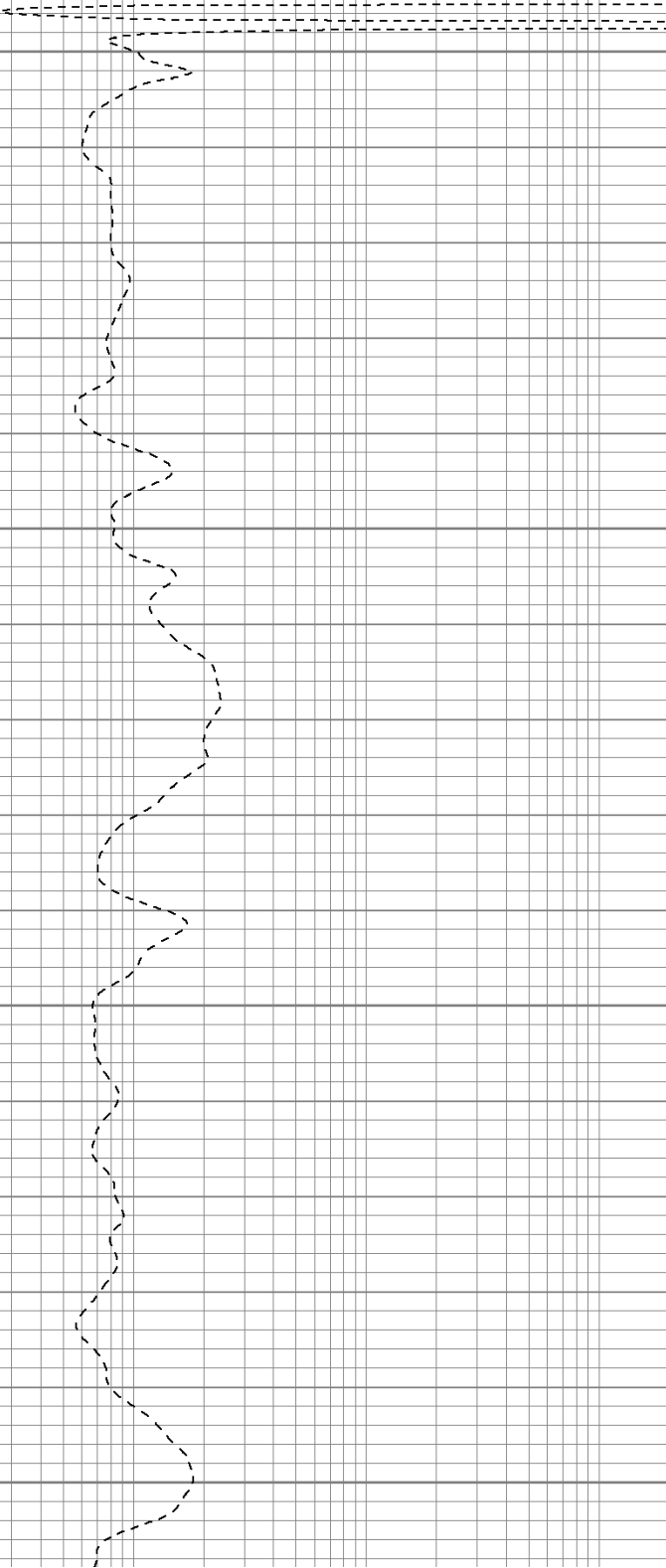
0.2	DIR (Ohm-m)	2000
0.2	SN (Ohm-m)	2000

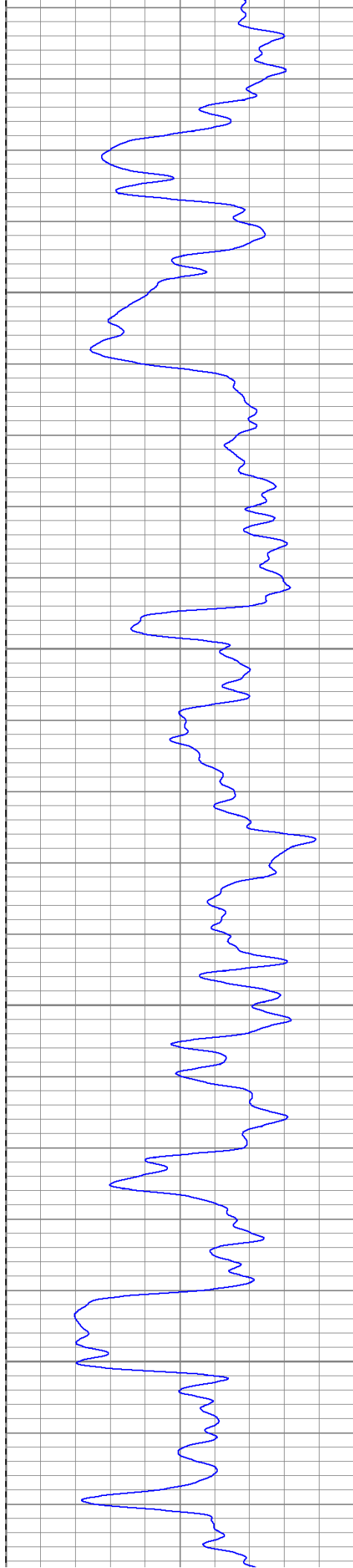
Surface Casing
500

550

600

650



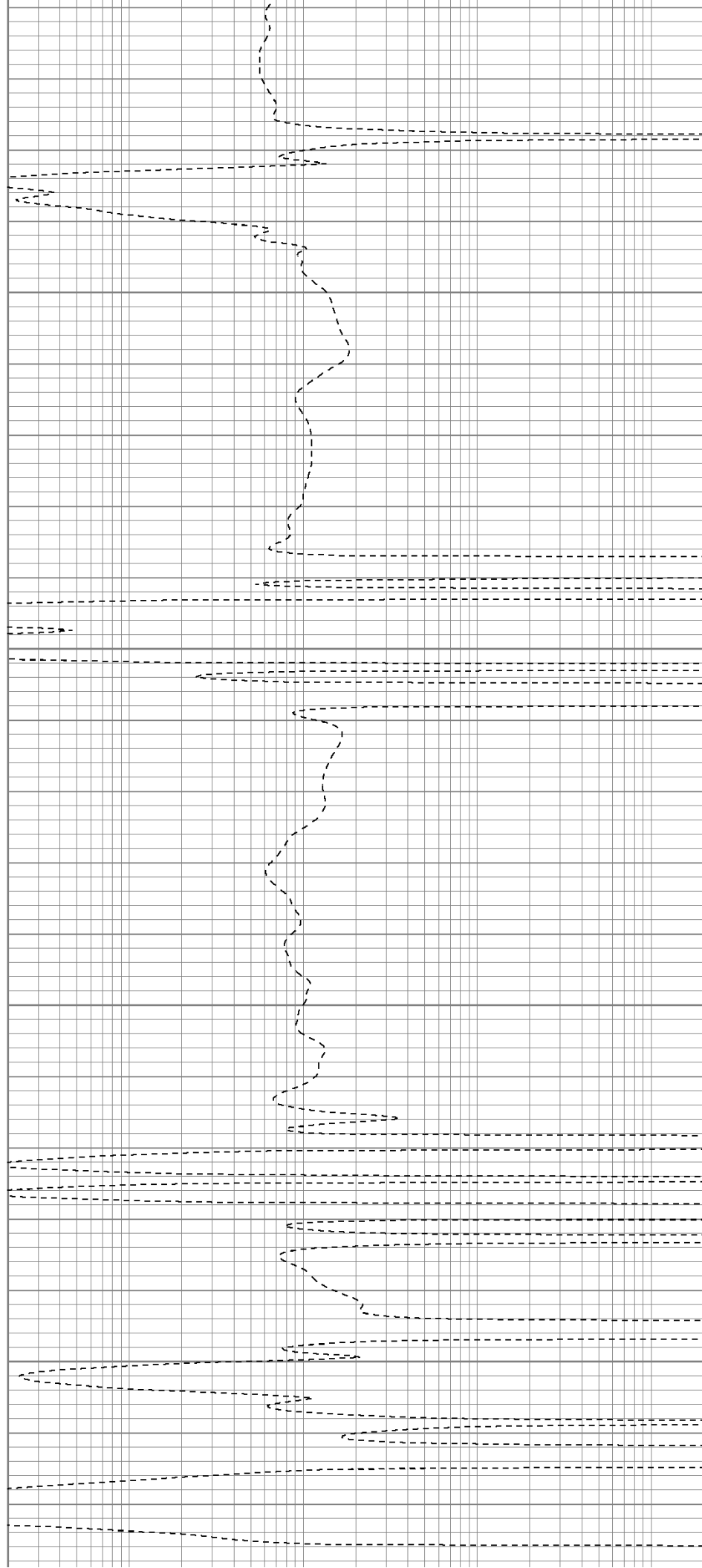


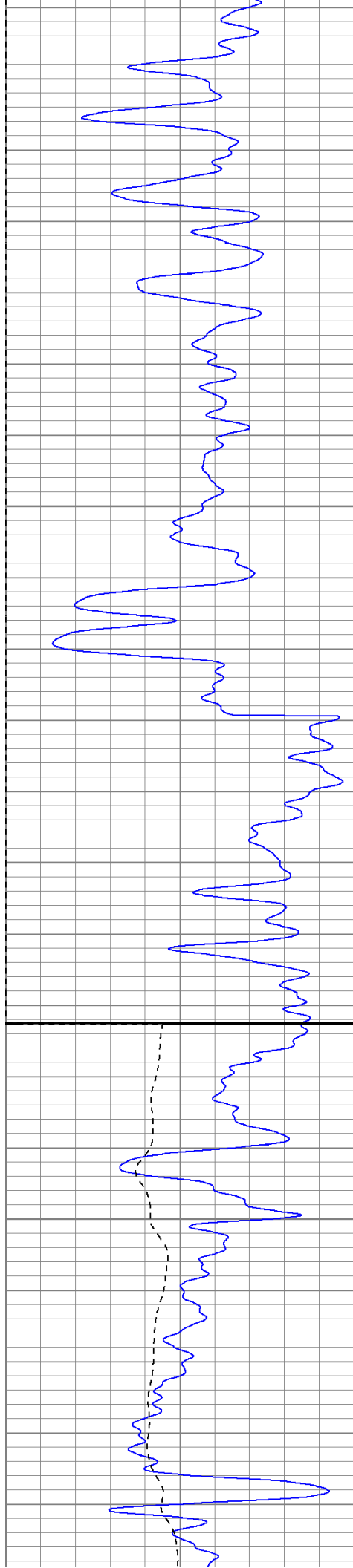
700

750

800

850





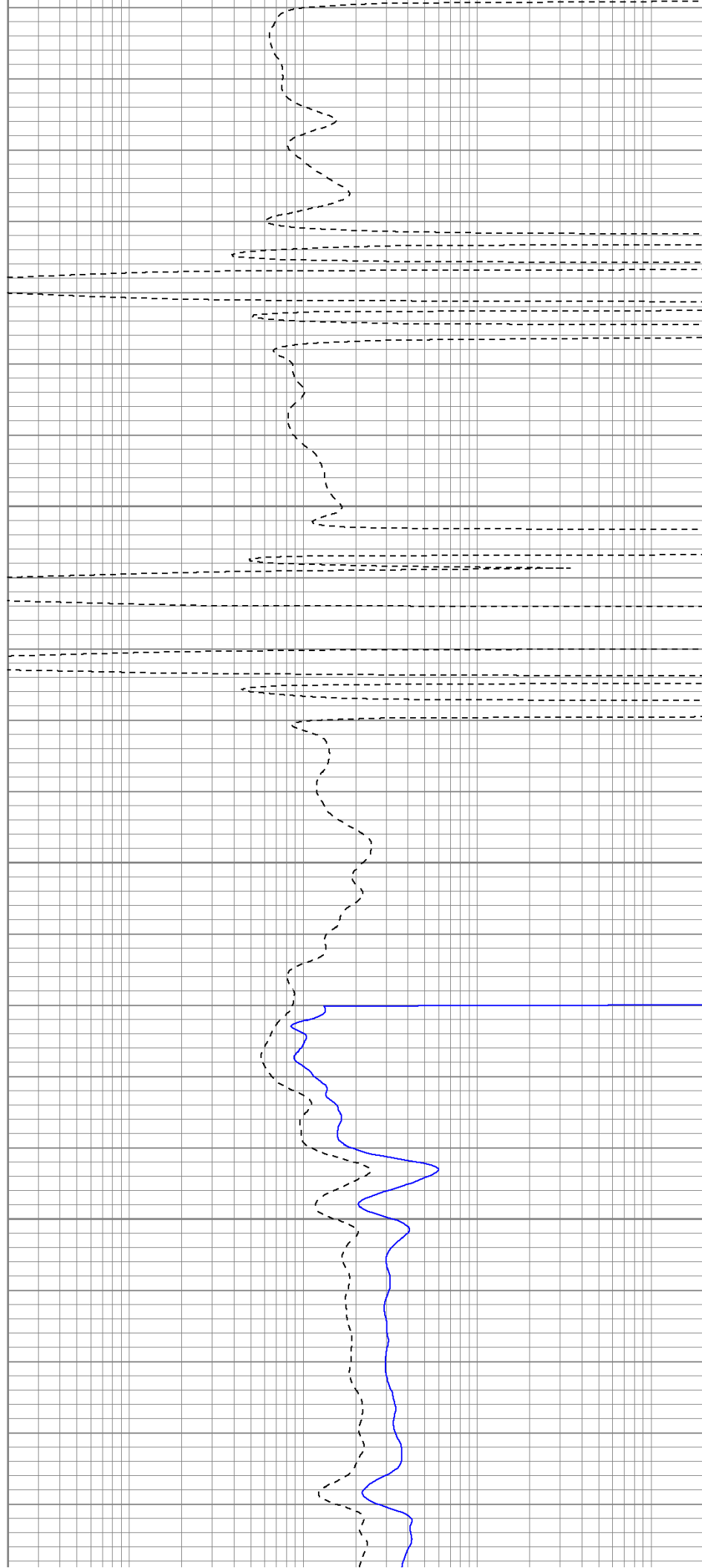
900

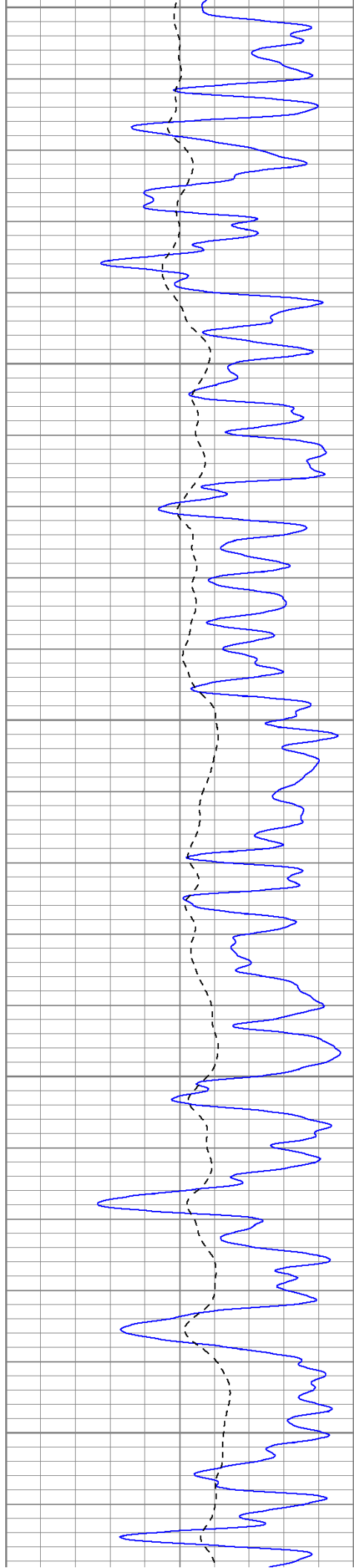
950

1000

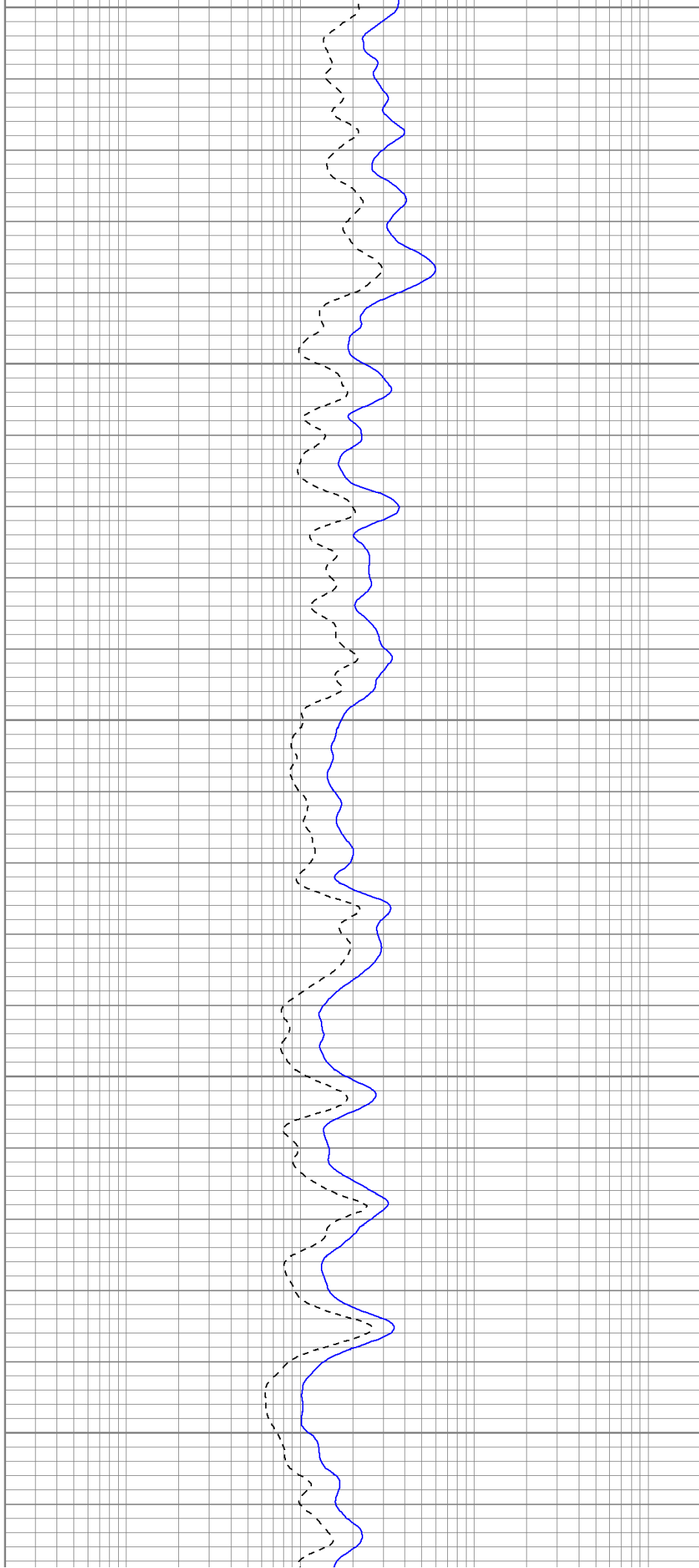
Fluid Level

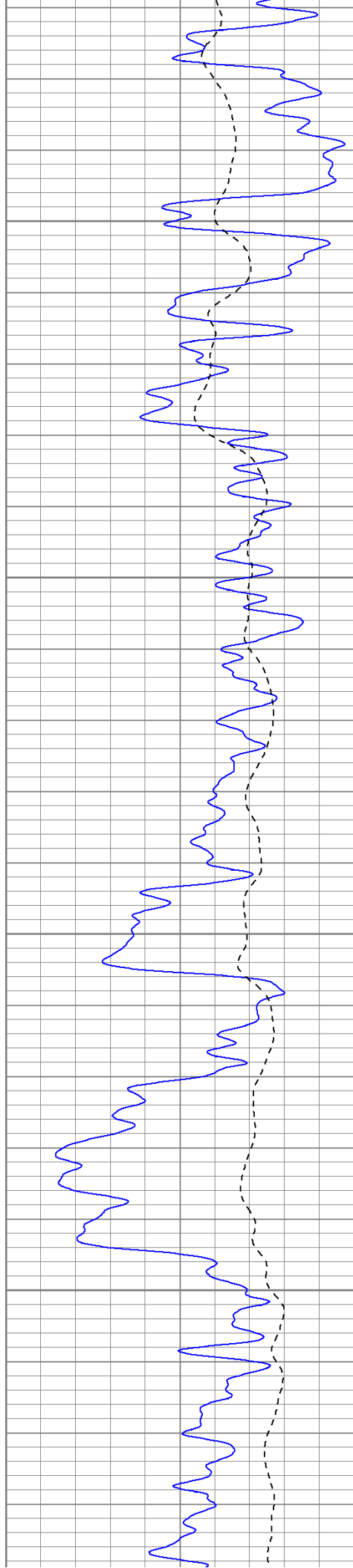
1050





1100
1150
1200
1250
1300



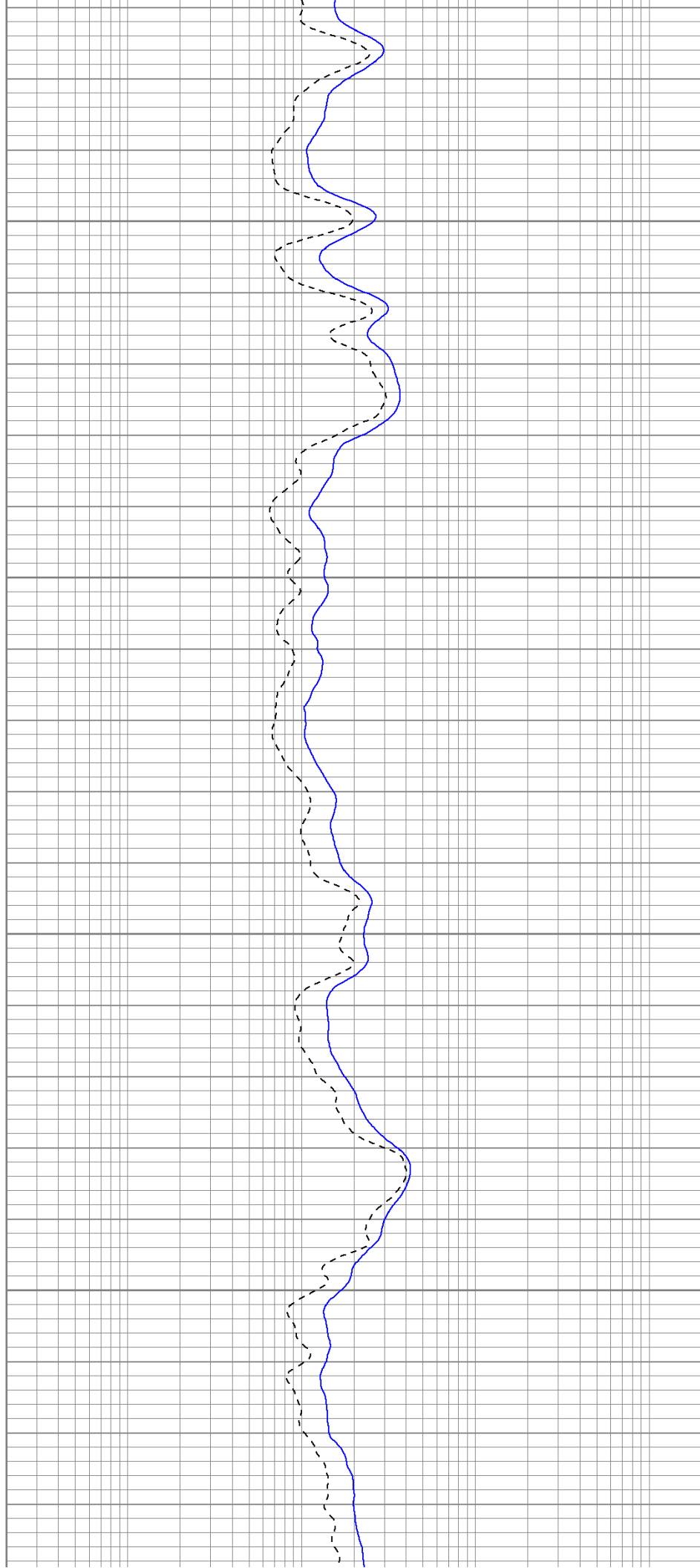


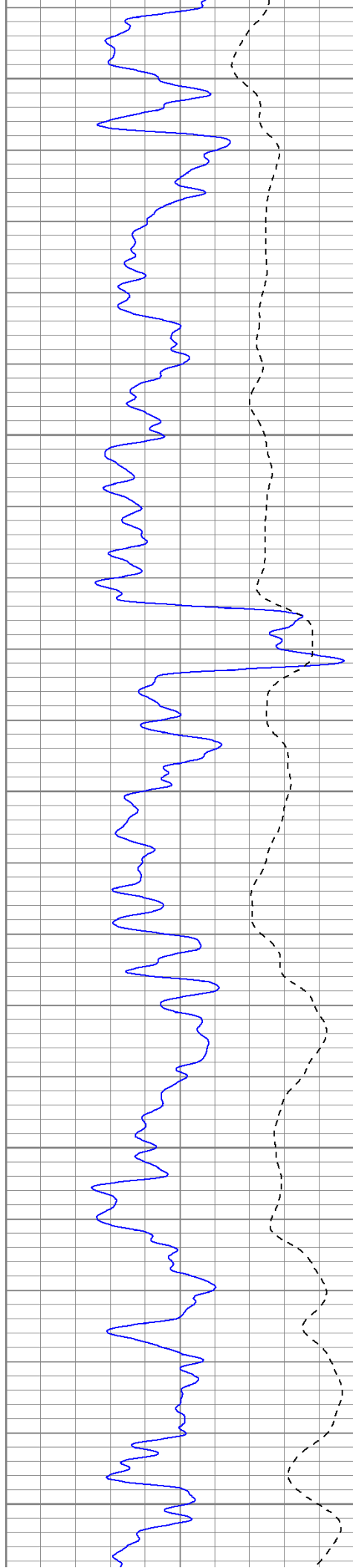
1350

1400

1450

1500





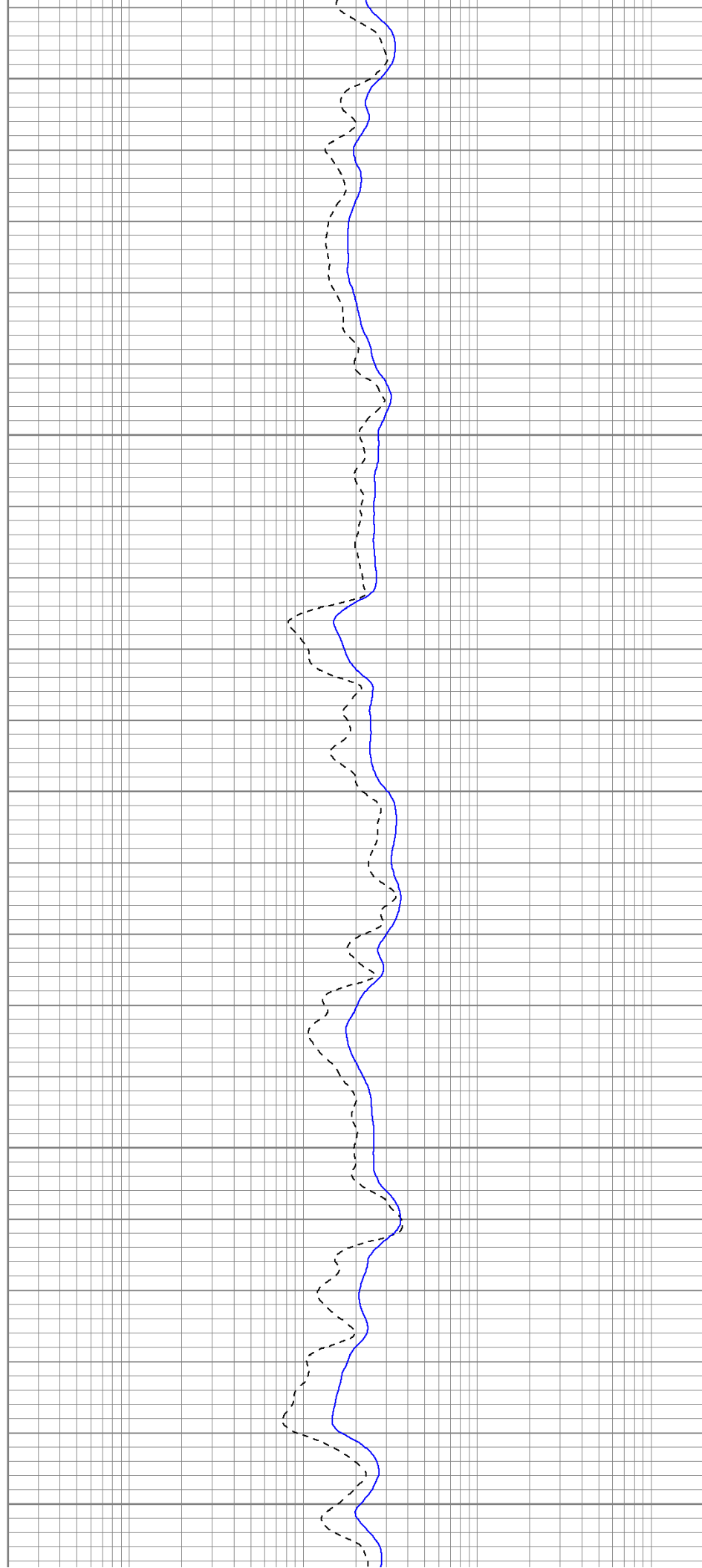
1550

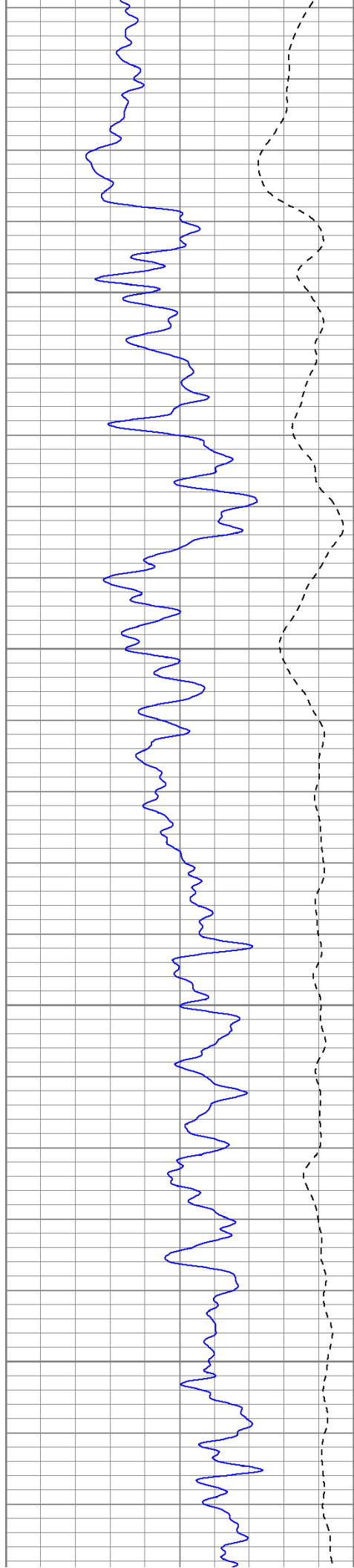
1600

1650

1700

1750



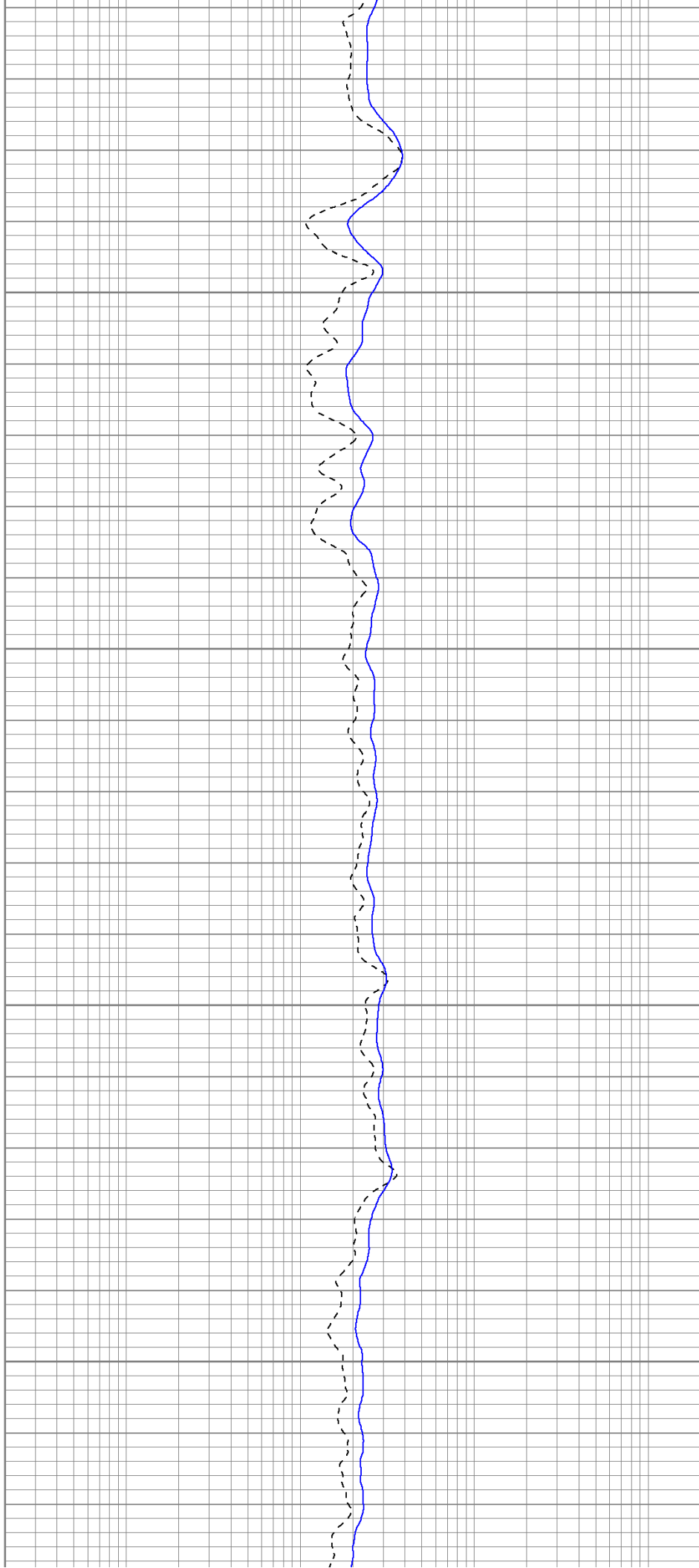


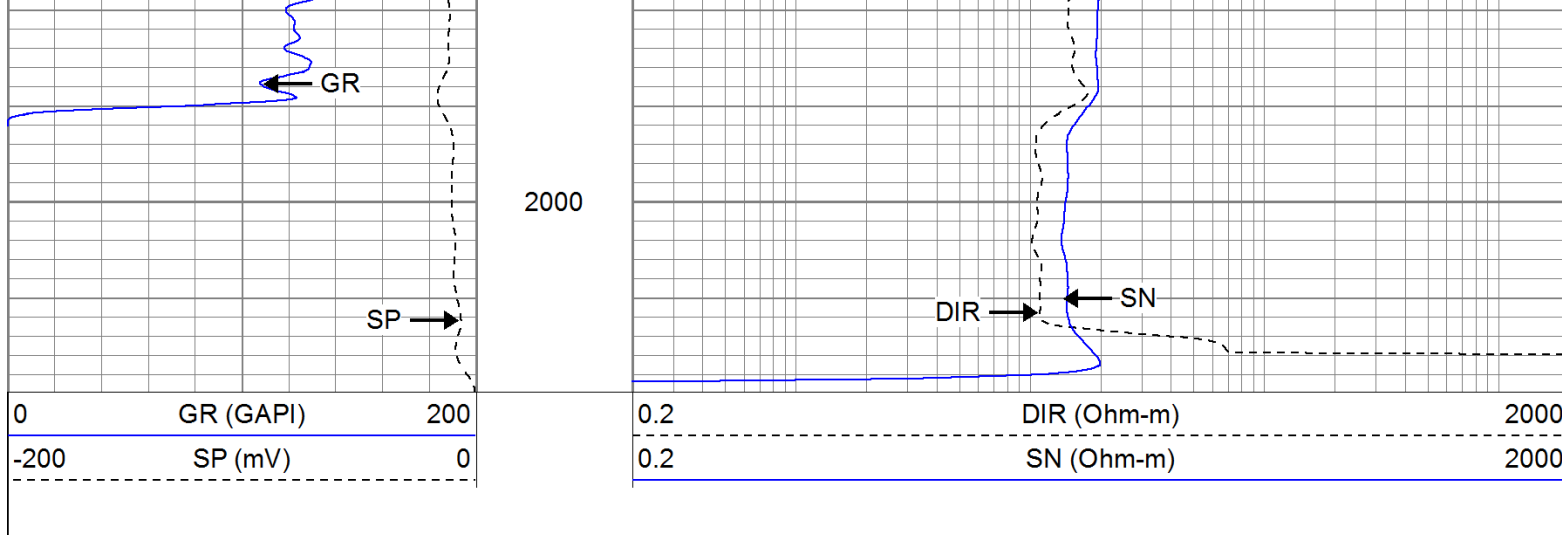
1800

1850

1900

1950

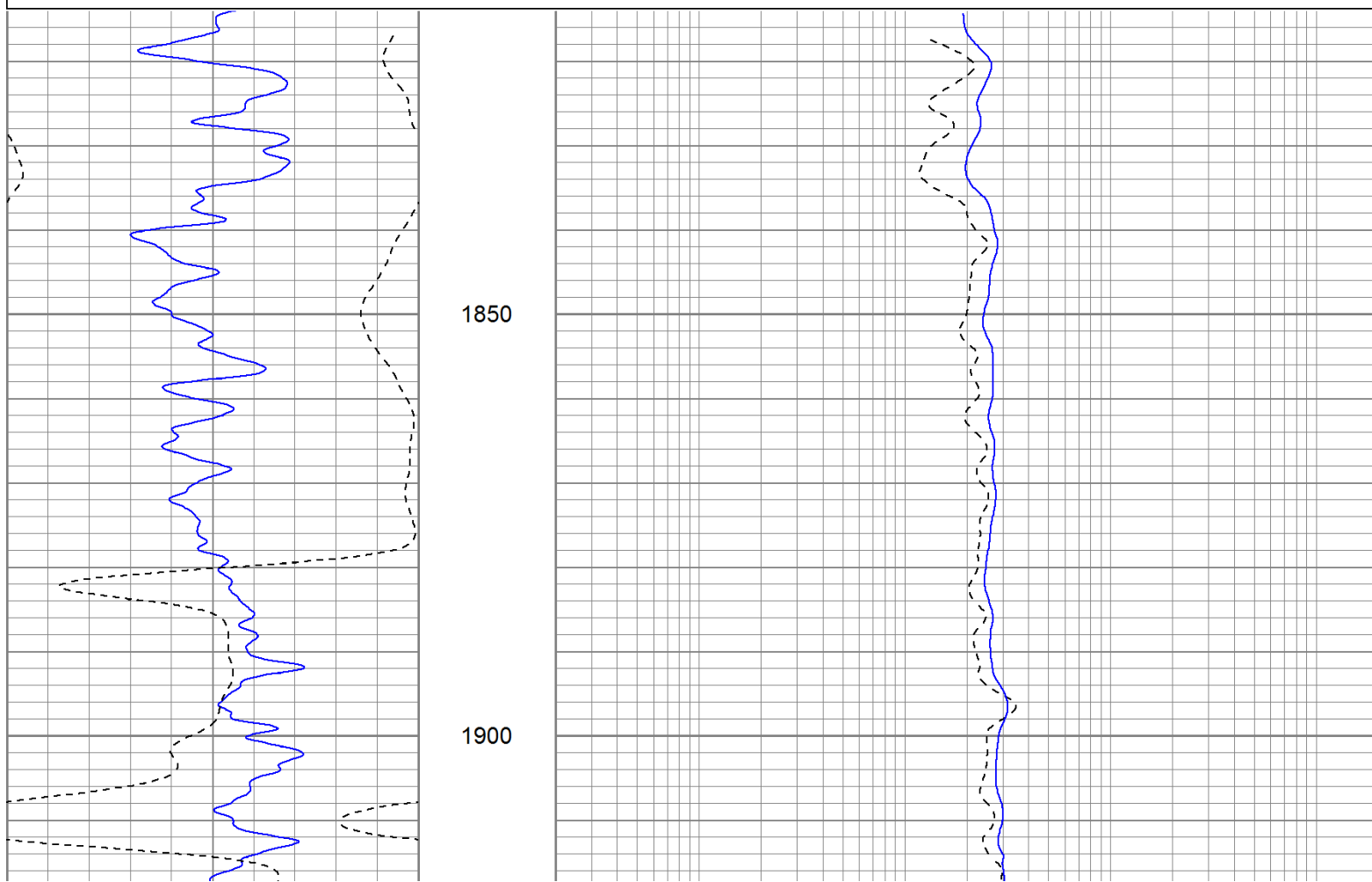


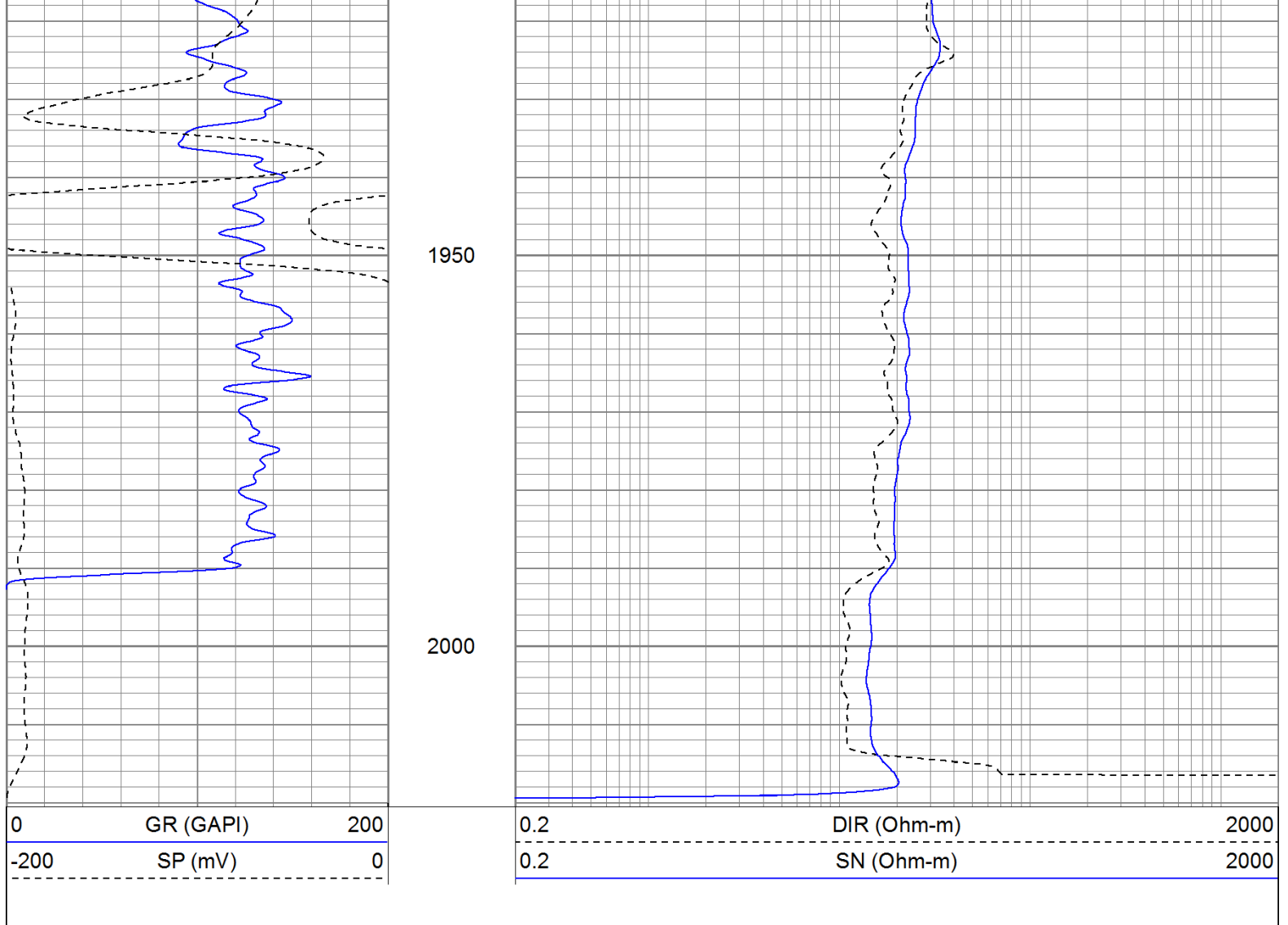


Repeat Pass

Database File: gremlin.db
 Dataset Pathname: pass1.1
 Presentation Format: iel
 Dataset Creation: Wed Nov 02 13:15:02 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	0.2	DIR (Ohm-m)	2000
-200	SP (mV)	0	0.2	SN (Ohm-m)	2000





Calibration Report

Database File: gremlin.db
 Dataset Pathname: pass1
 Dataset Creation: Wed Nov 02 12:05:39 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	-2.000

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 Oct 10 09:20:39 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	8.20 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:	Mon Oct 10 09:27:42 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:	Mon Oct 10 09:53:04 2011		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.6500	GAPI/cps	

