

Company		Pioneer Natural Resources	
Well	Beta 14-10 Tr		
Field	Purgatoire River		
County	Las Animas	State	Colorado
Location:		API #: 05 071 09846 00	
SEC 10 TWP 33S RGE 67W		CDNL	
Permanent Datum	Ground Level	Elevation	7204'
Log Measured From	Kelly Bushing 4' AGL		
Drilling Measured From	Kelly Bushing		
Other Services			
Date 7-27-11			
Run Number	One		
Depth Driller	1615'		
Depth Logger	1610'		
Bottom Logged Interval	1608'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 470'		
Casing Logger	468'		
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	11:00 P.M.		
Time Logger on Bottom	2:15 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:  
Wet Canyon, first left after Robinson Sawmill.

Database File: betatr.db  
Dataset Pathname: pass2.1  
Presentation Format: iel  
Dataset Creation: Wed Jul 27 03:18:16 2011 by Calc Open-Cased 110302  
Charted by: Depth in Feet scaled 1:240

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

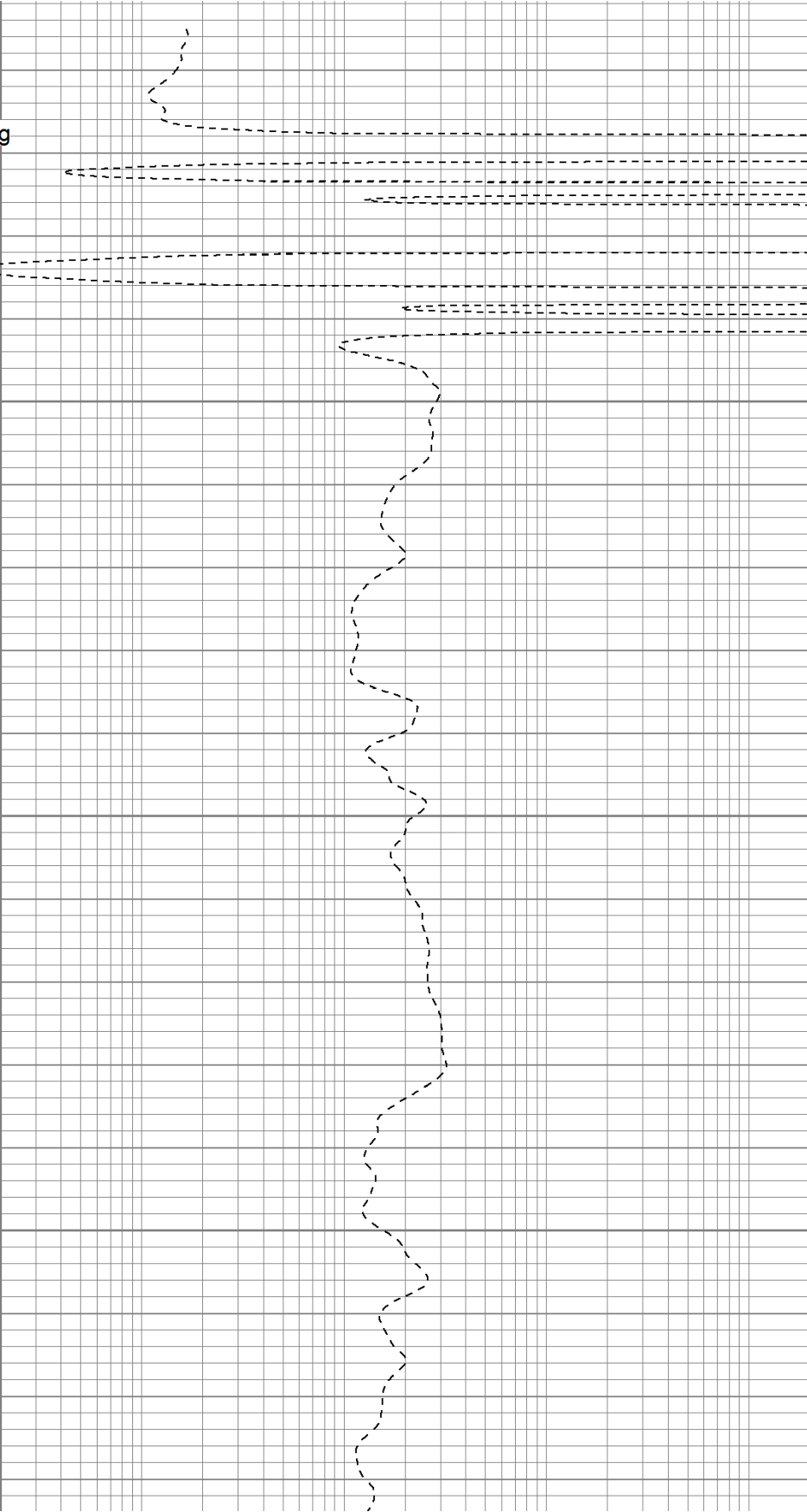
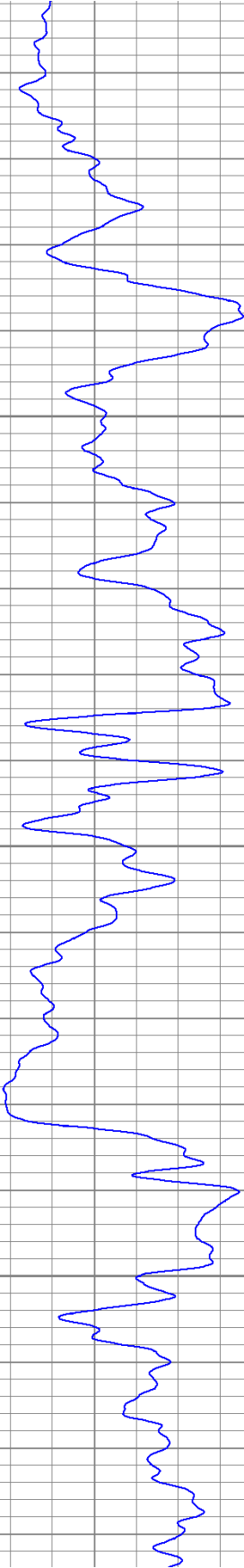
0.2	DIR (Ohm-m)	2000
0.2	SN (Ohm-m)	2000

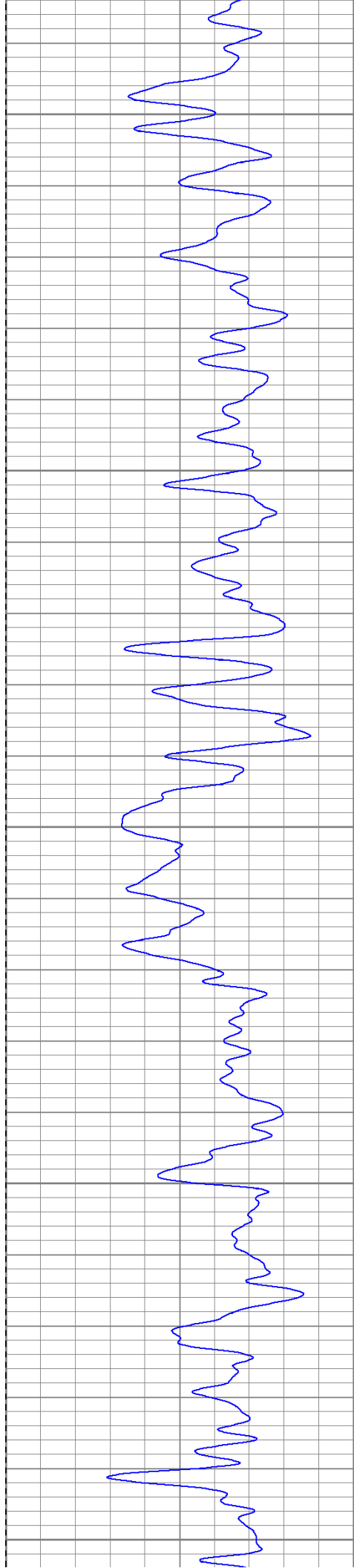
Surface Casing

500

550

600





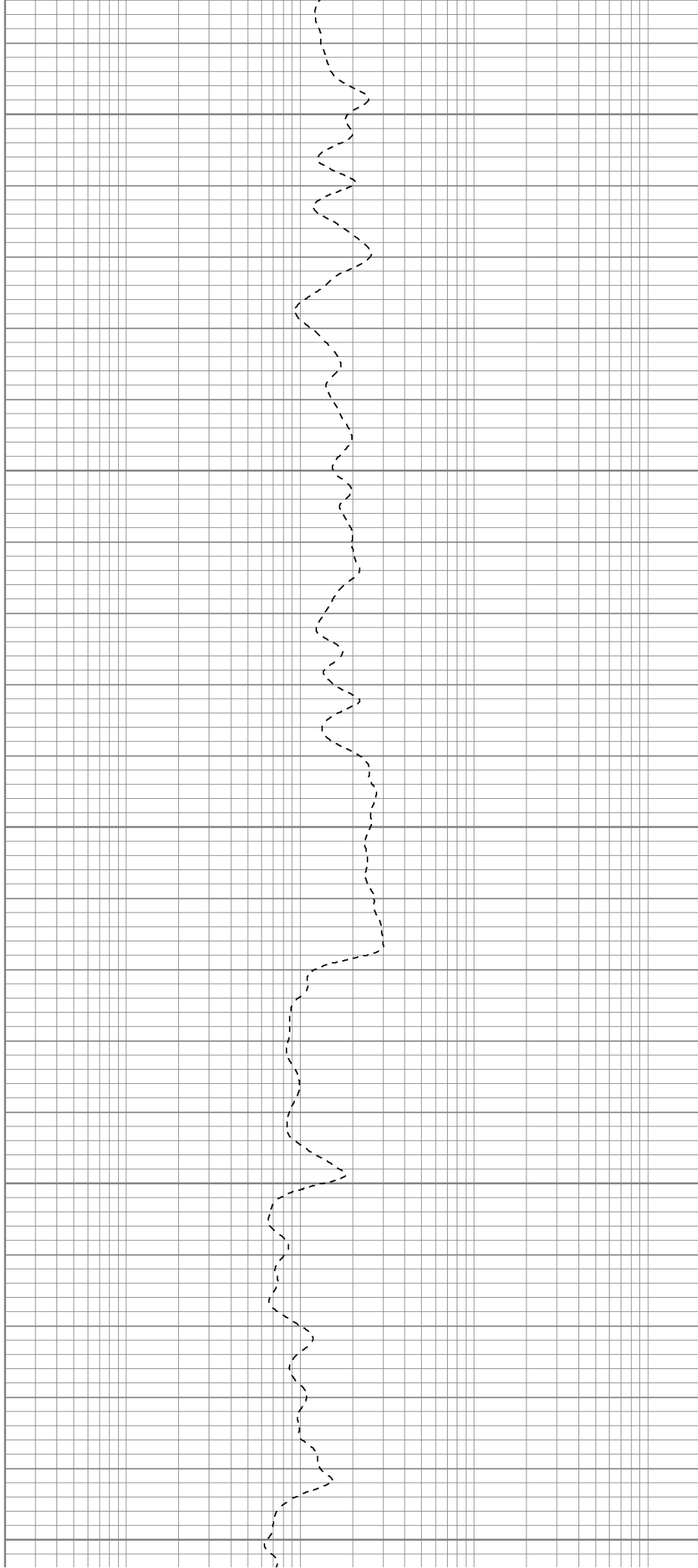
650

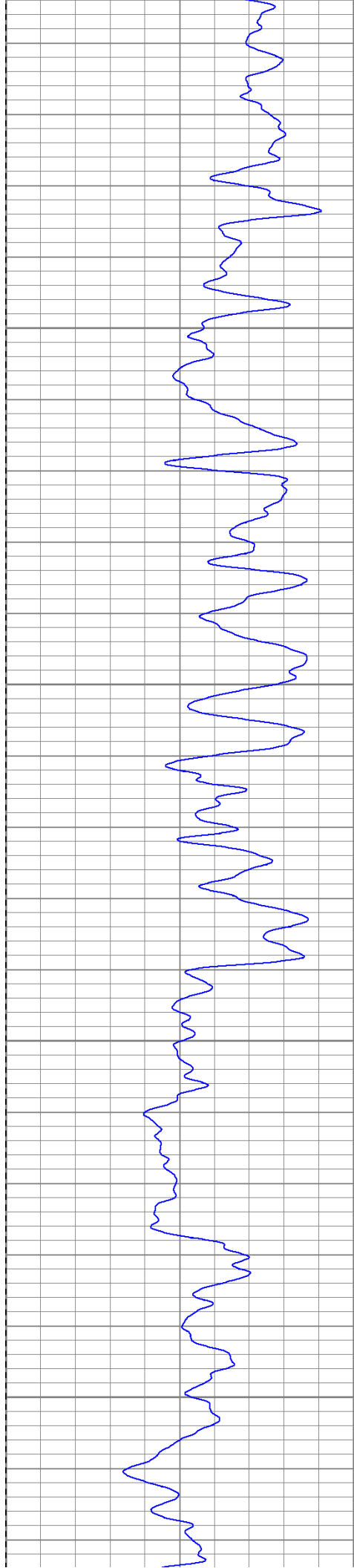
700

750

800

850



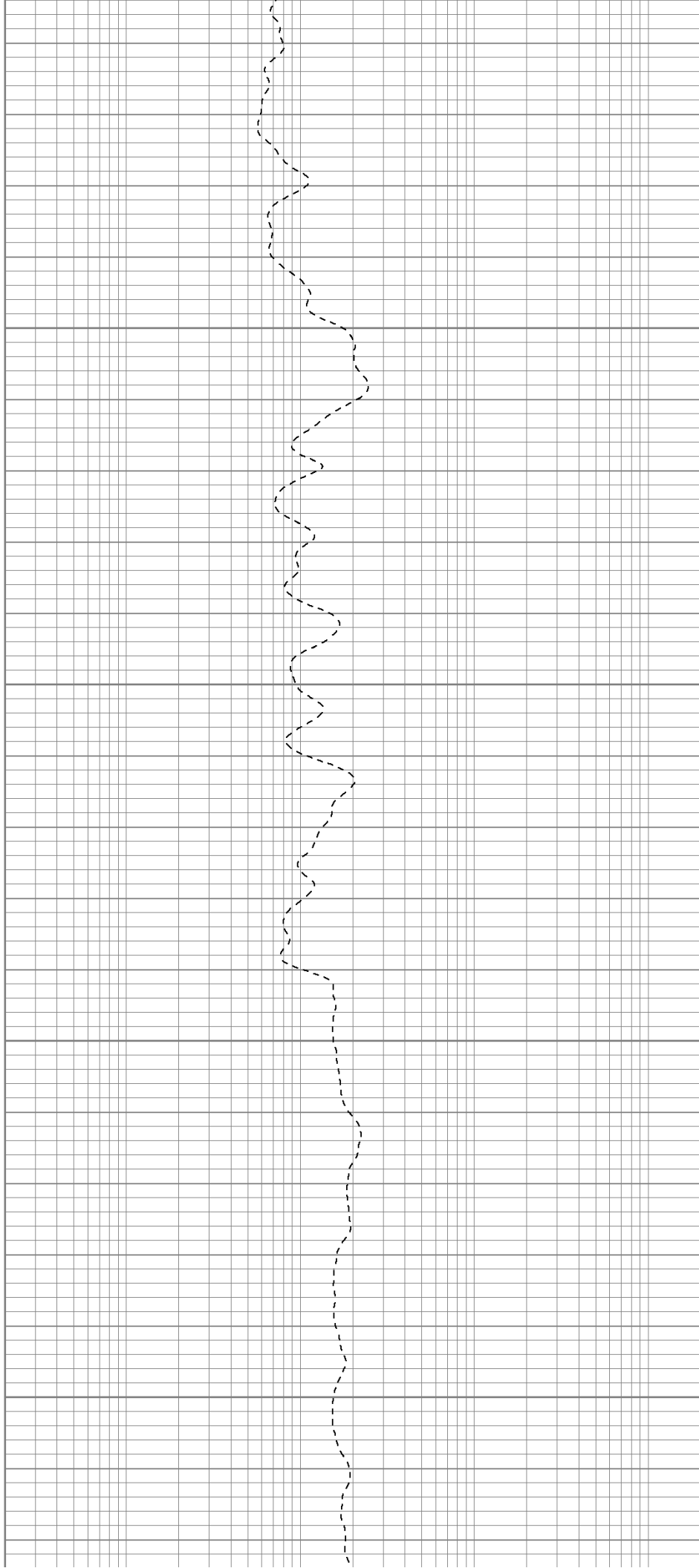


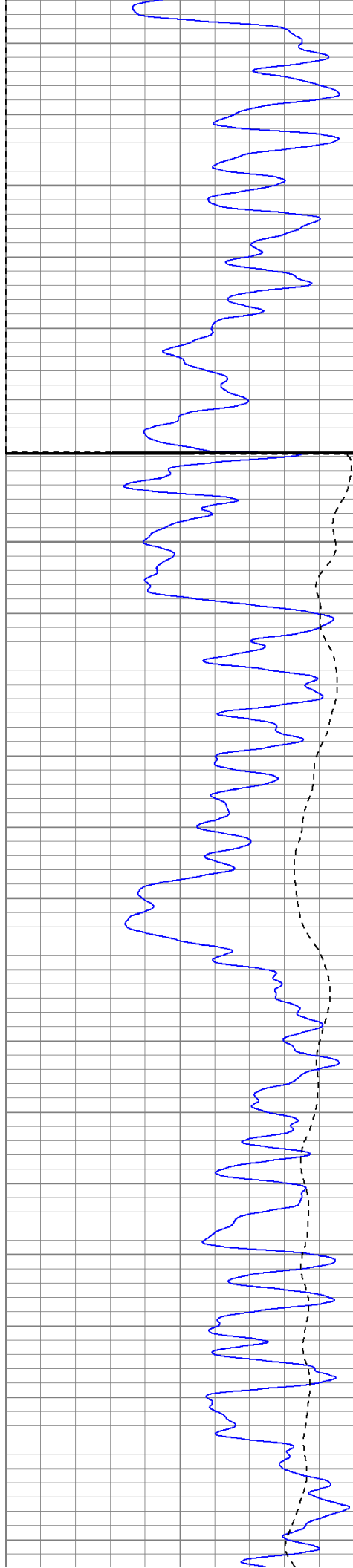
900

950

1000

1050





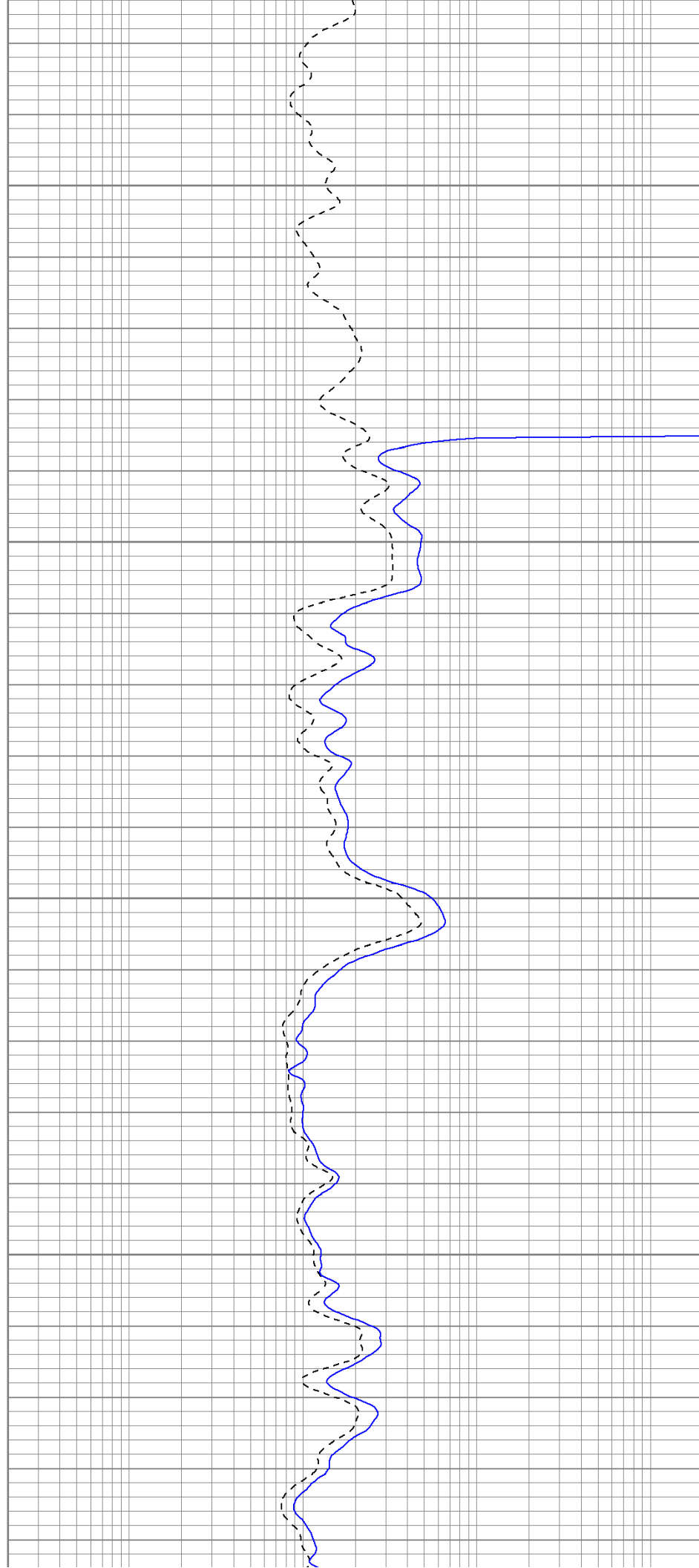
Fluid Level

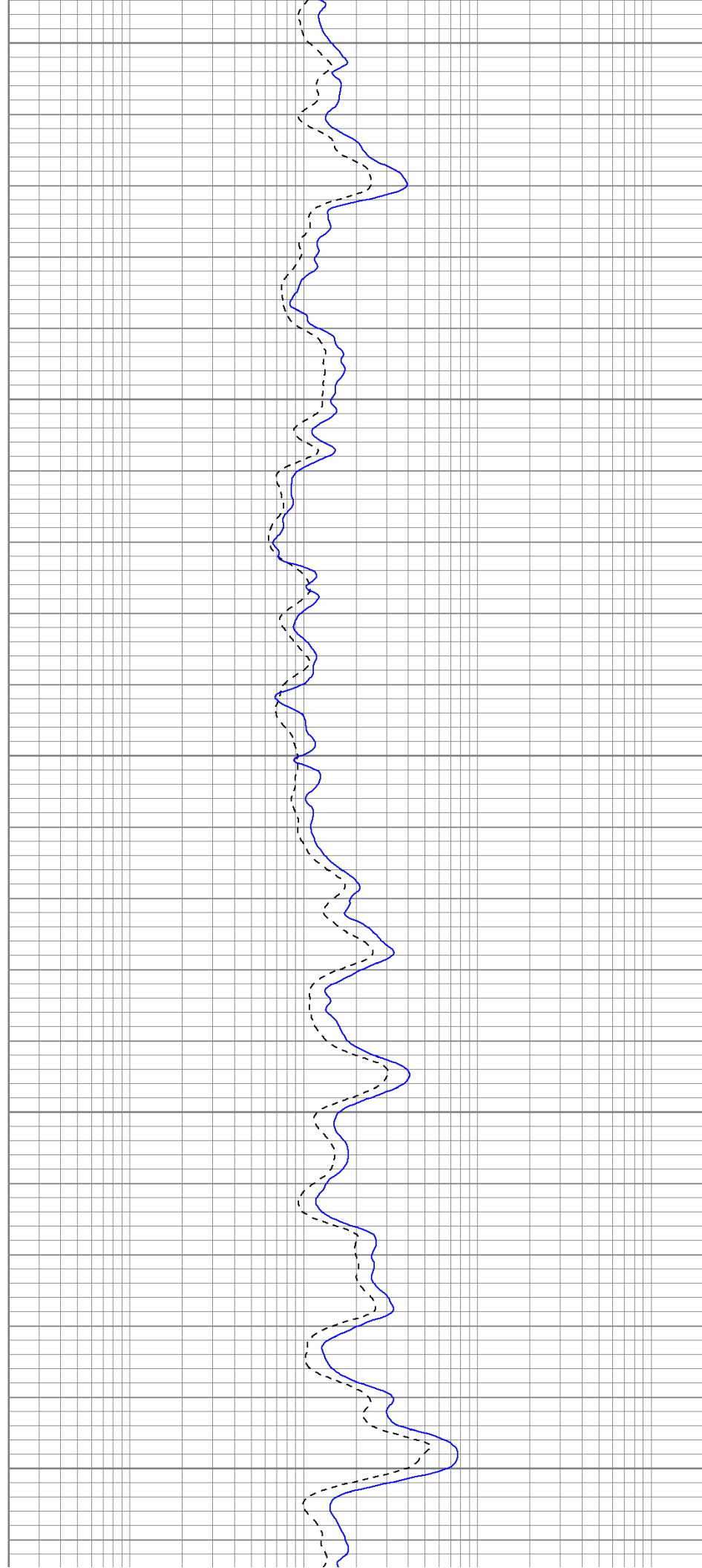
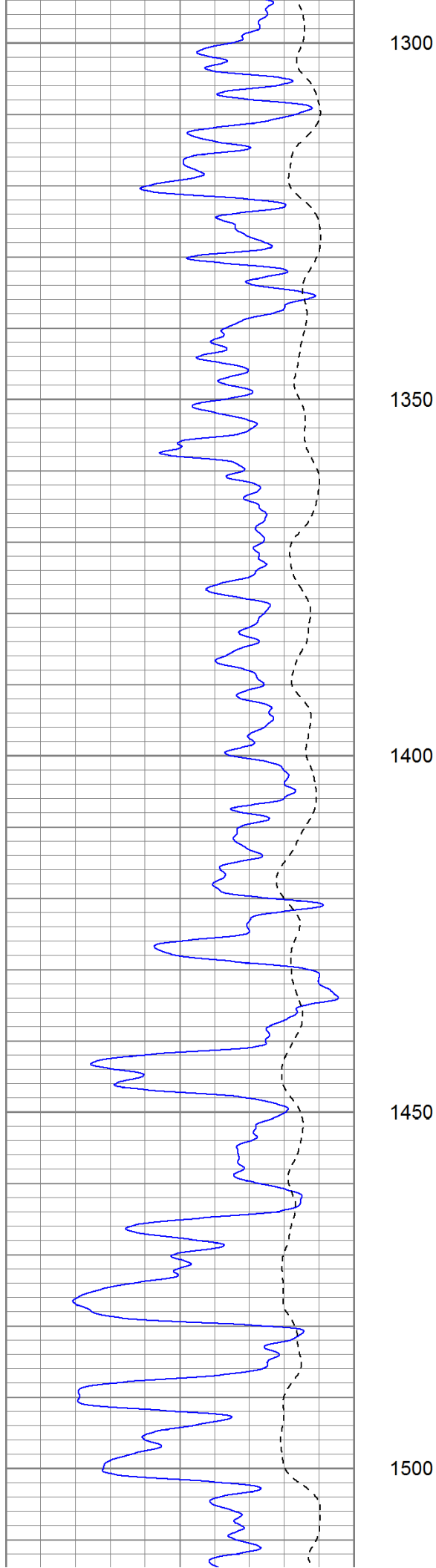
1100

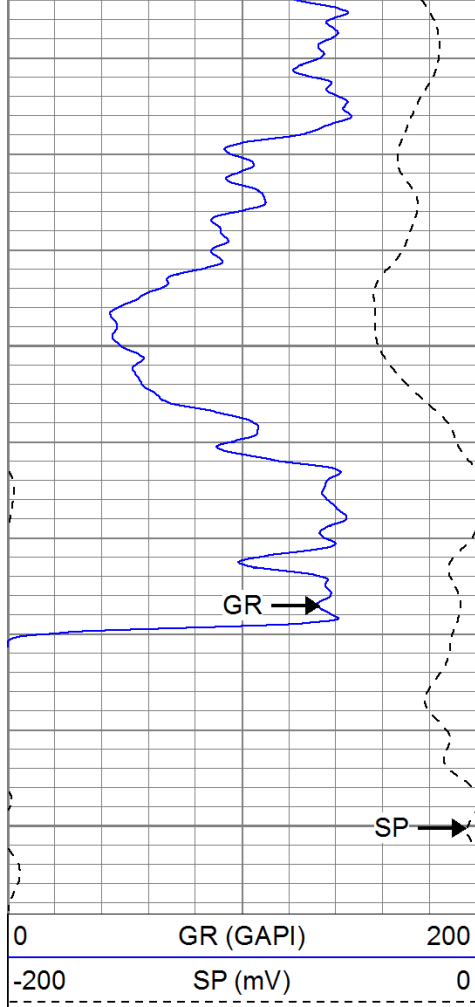
1150

1200

1250

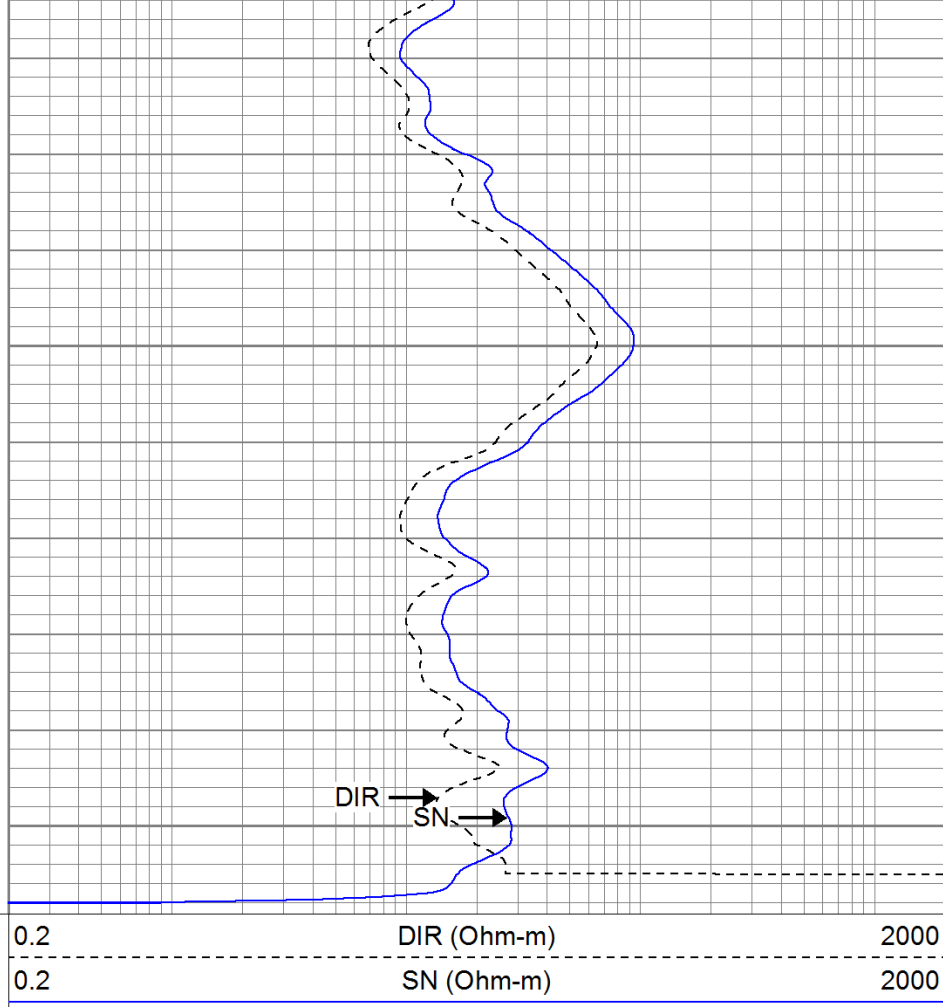






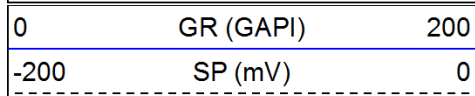
1550

1600

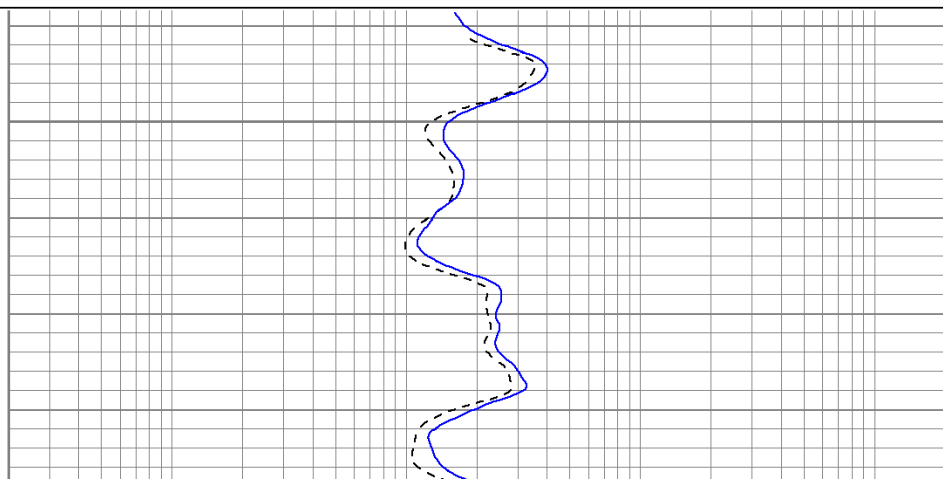
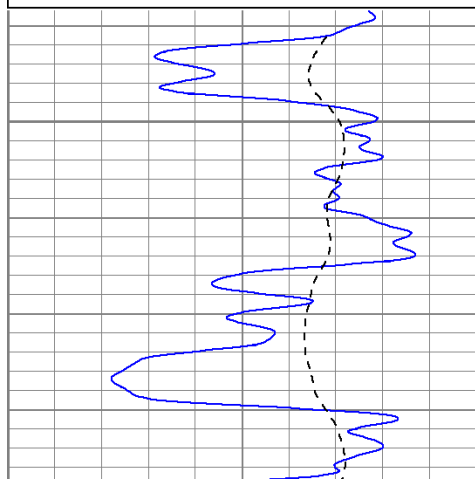
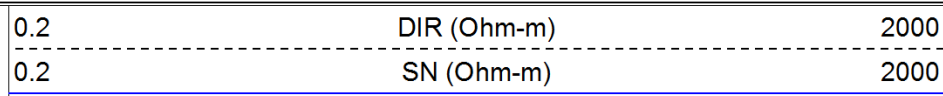


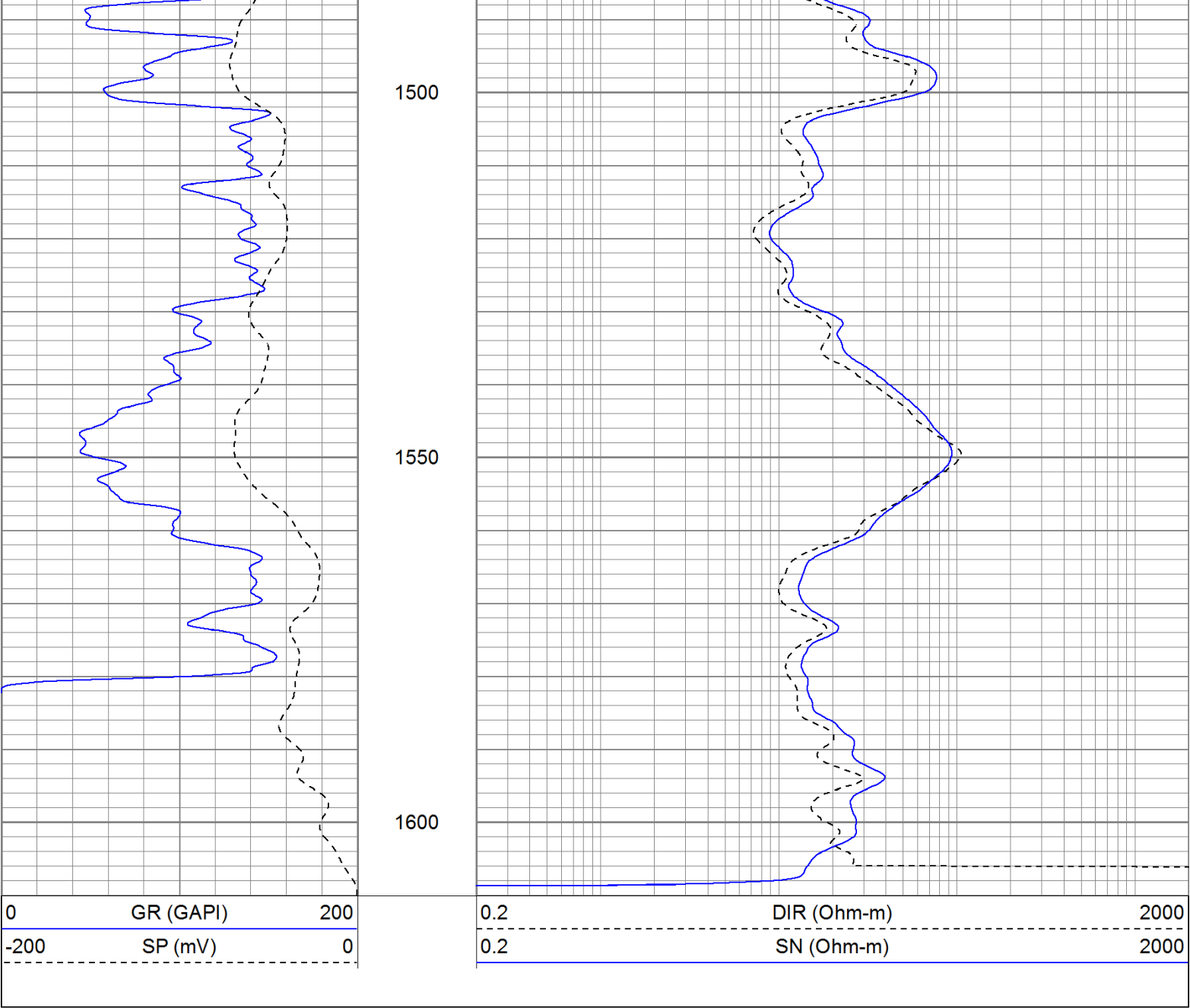
# Repeat Pass

Database File: betatr.db  
 Dataset Pathname: pass1.1  
 Presentation Format: iel  
 Dataset Creation: Wed Jul 27 02:55:59 2011 by Calc Open-Cased 110302  
 Charted by: Depth in Feet scaled 1:240



1450










Calibration Report				
Database File:	betatr.db			
Dataset Pathname:	pass1			
Dataset Creation:	Wed Jul 27 02:27:54 2011 by Log Open-Cased 110302			
Induction Tool Calibration Report				
Serial Number:	903			
Tool Model:	Probe			
Downhole Cal Performed:	Sat Jun 18 15:02:12 2011			
Surface Cal Performed:	Sat Jun 18 17:40:00 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 Reference:		0.000	20.000	Ohm-m
Short Normal Reading:		0.006	0.233	V
Results:	Gain		Offset	
	Loop Conductivity:		728.211	
	Downhole Correction:		32.770	
	Short Normal Resistivity:		-0.621	
		88.245	-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:		Wed Jun 08 09:11:26 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:		Wed Jun 08 13:12:55 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:		Tue Jun 14 18:09:29 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)
GR	29.58		None	0.75	1.50	5.00
			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
LSD DCAL SSD	16.21		CDL-2.75POH (901) Probe	8.43	2.75	106.00
	15.94					
	15.69					
DIC	6.24		IEL-Probe (903)	13.46	2.75	93.00
SP SN	2.25					
	1.71					

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