

Company	Pioneer Natural Resources	Company	Pioneer Natural Resources
Well	Vallejo 32-19	Well	Vallejo 32-19
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API #: 05 071 09338 00	Other Services	SIL
SEC 19 TWP 33S RGE 67W	1637' FNL & 1450' FEL		
Permanent Datum	Ground Level	Elevation	7341'
Log Measured From	Kelly Bushing 4' AGL		
Drilling Measured From	Kelly Bushing		
Date	10-13-11		
Run Number	One		
Depth Driller	1965'		
Depth Logger	1956'		
Bottom Logged Interval	1944'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 336'		
Casing Logger	336'		
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	11:30 P.M.		
Maximum Recorded Temperature	90 DEG F		
Equipment Number	T590		
Location	Trinidad		
Recorded By	C. Sisneros		
Witnessed By	Mr. Derrick Berry	Mr. Curtis Adam	

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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.

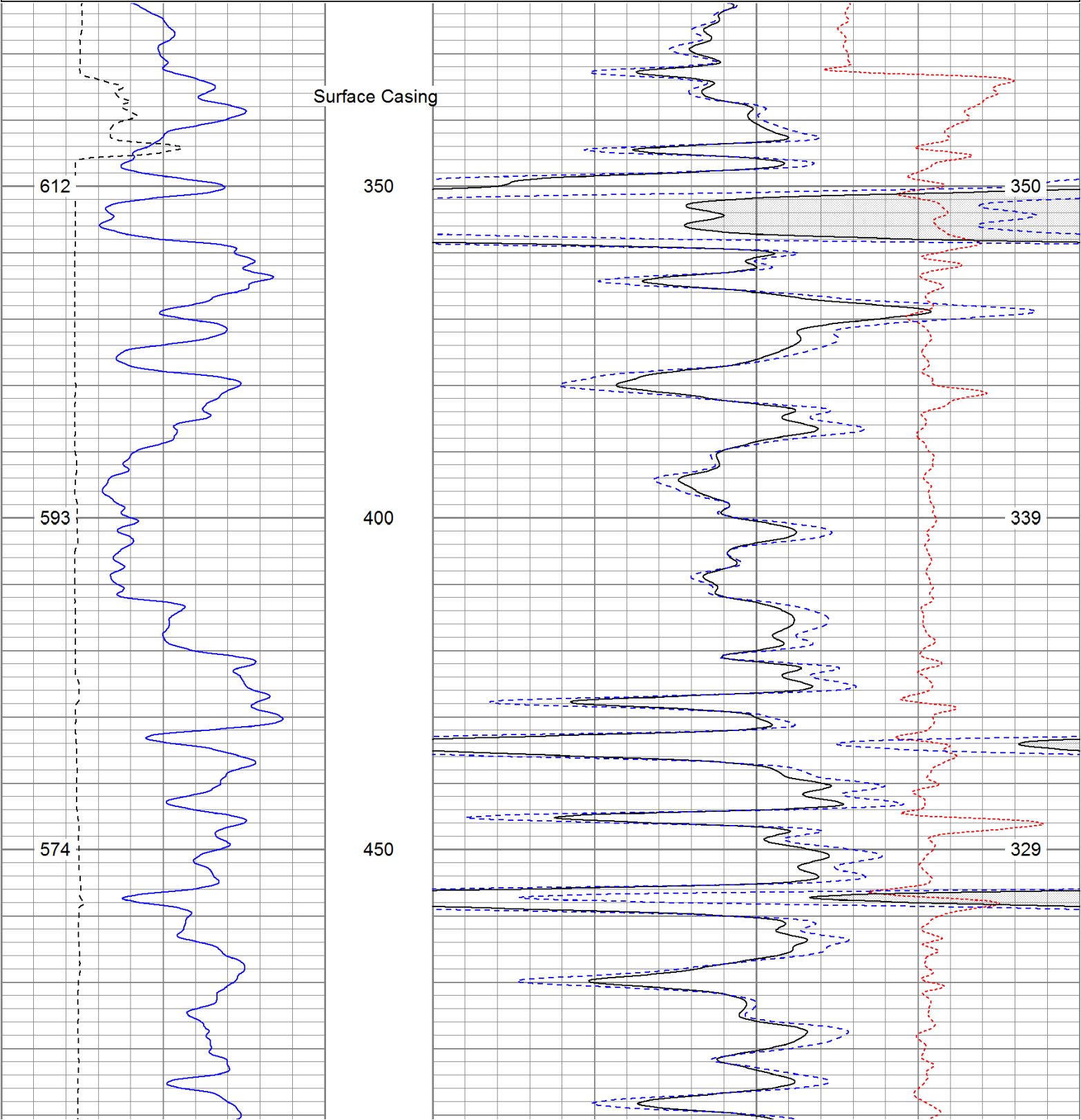
Comments

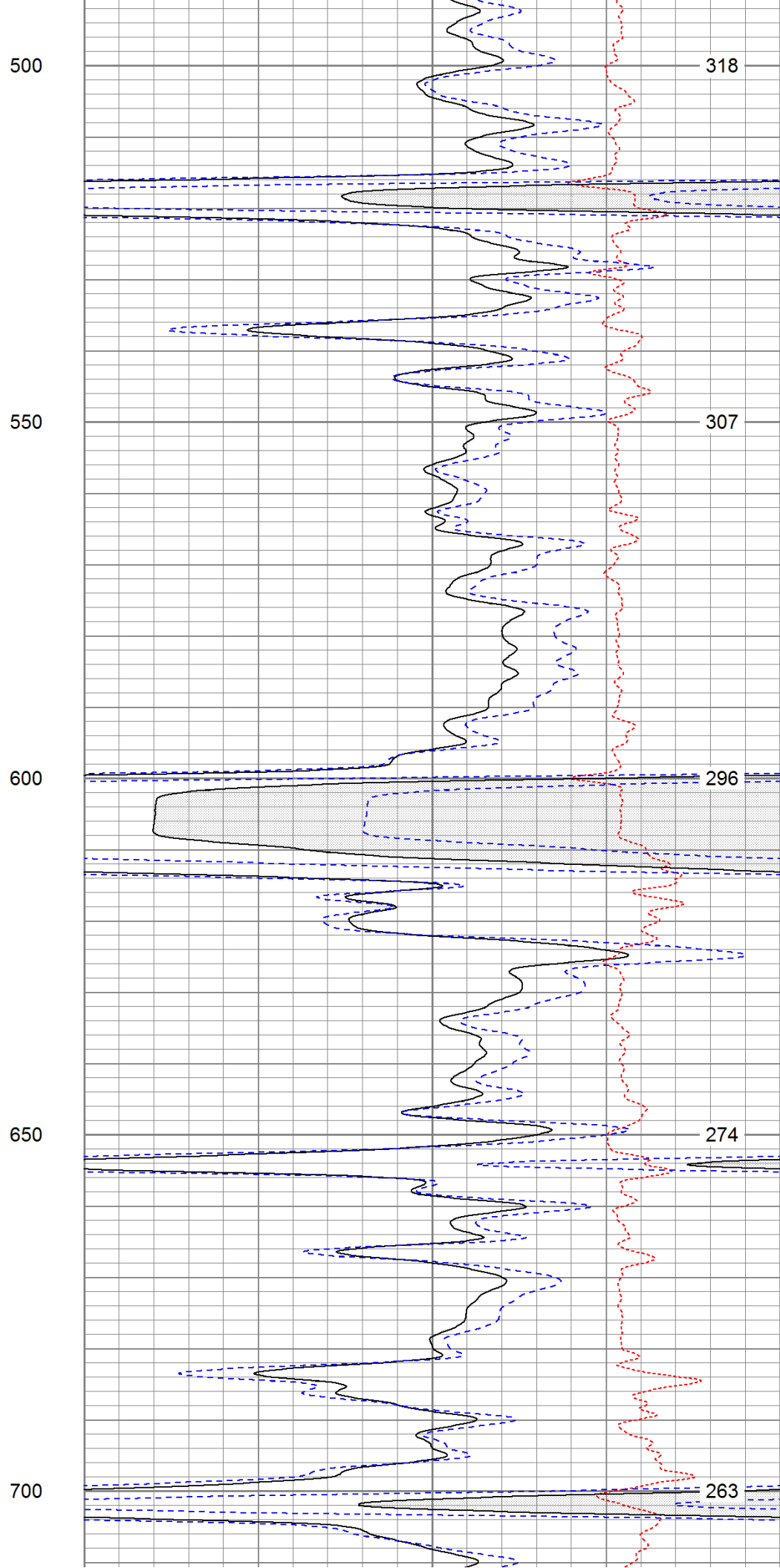
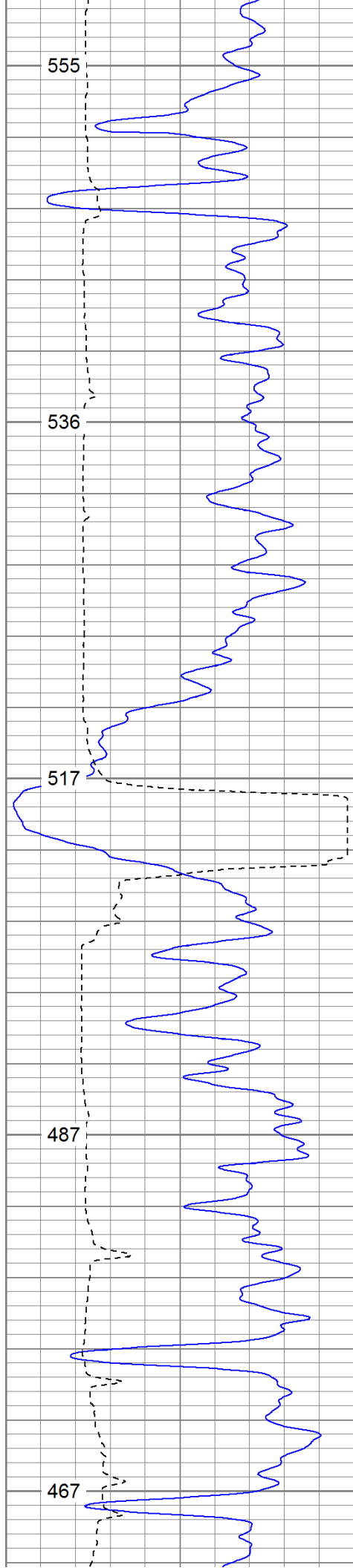
Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5.5" Casing.

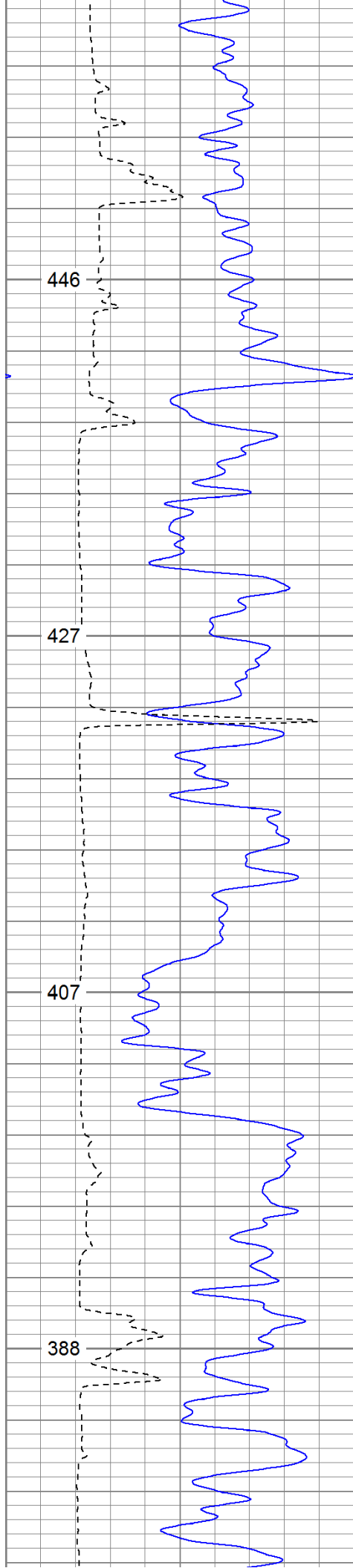
Directions:
Rancho Escondido, second left.

Database File: vallejo32-19.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Thu Oct 13 00:55:29 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	2	RHOB (g/cc)		3
6	DCAL (in)	16	1	RHOB (g/cc)		2
TBHV (ft3)			30	DPOR (pu)		-10
				-0.5	RHOC (g/cc)	0.5
				7000	LTEN (lb)	0
						ABHV (ft3)





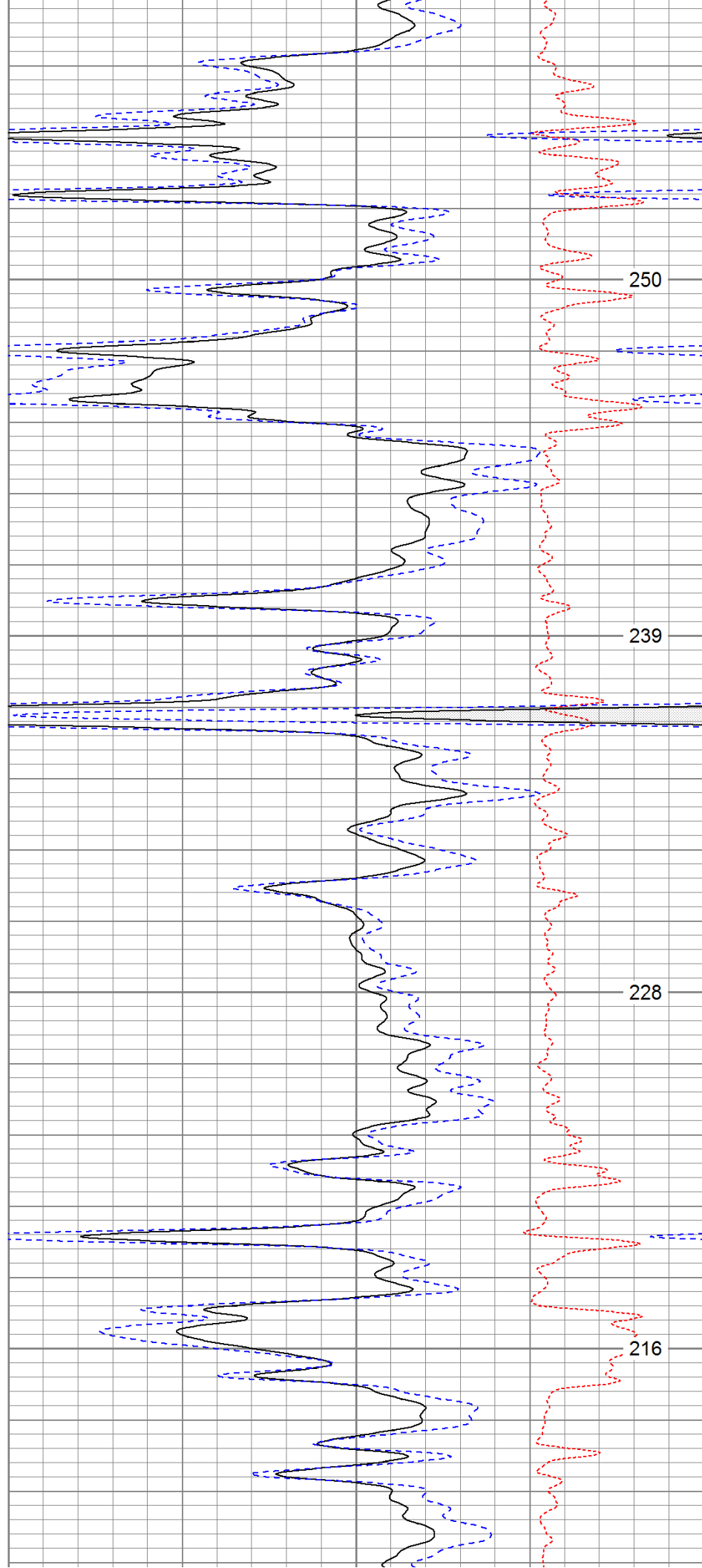


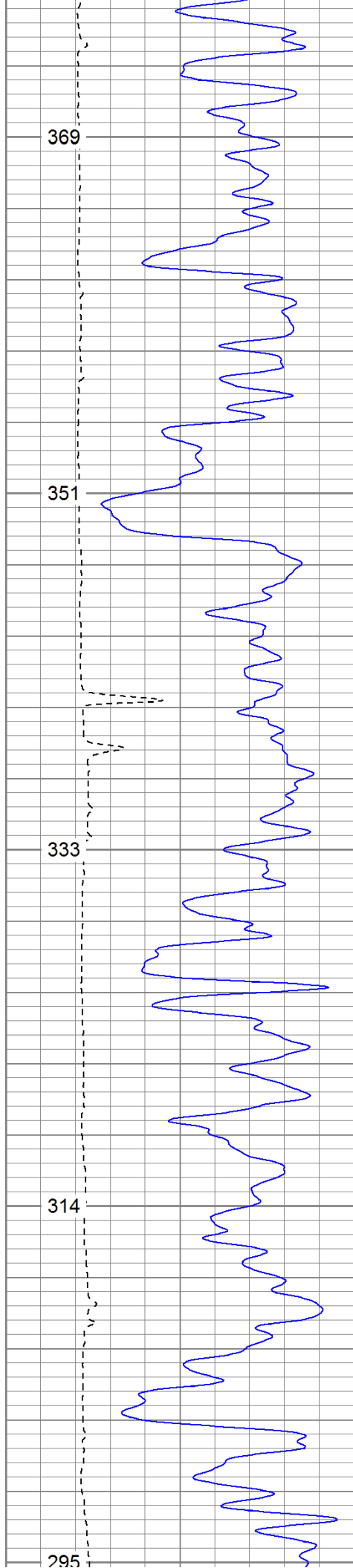
750

800

850

900





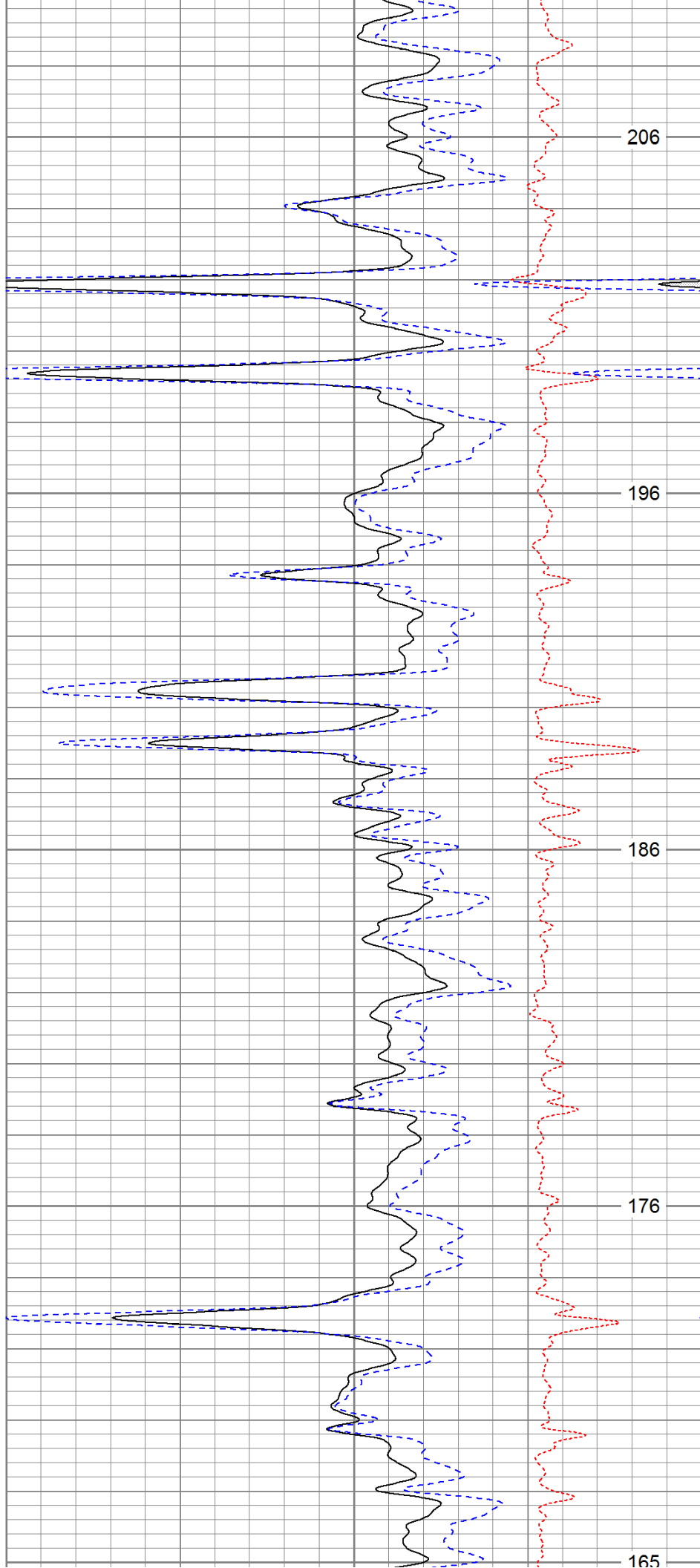
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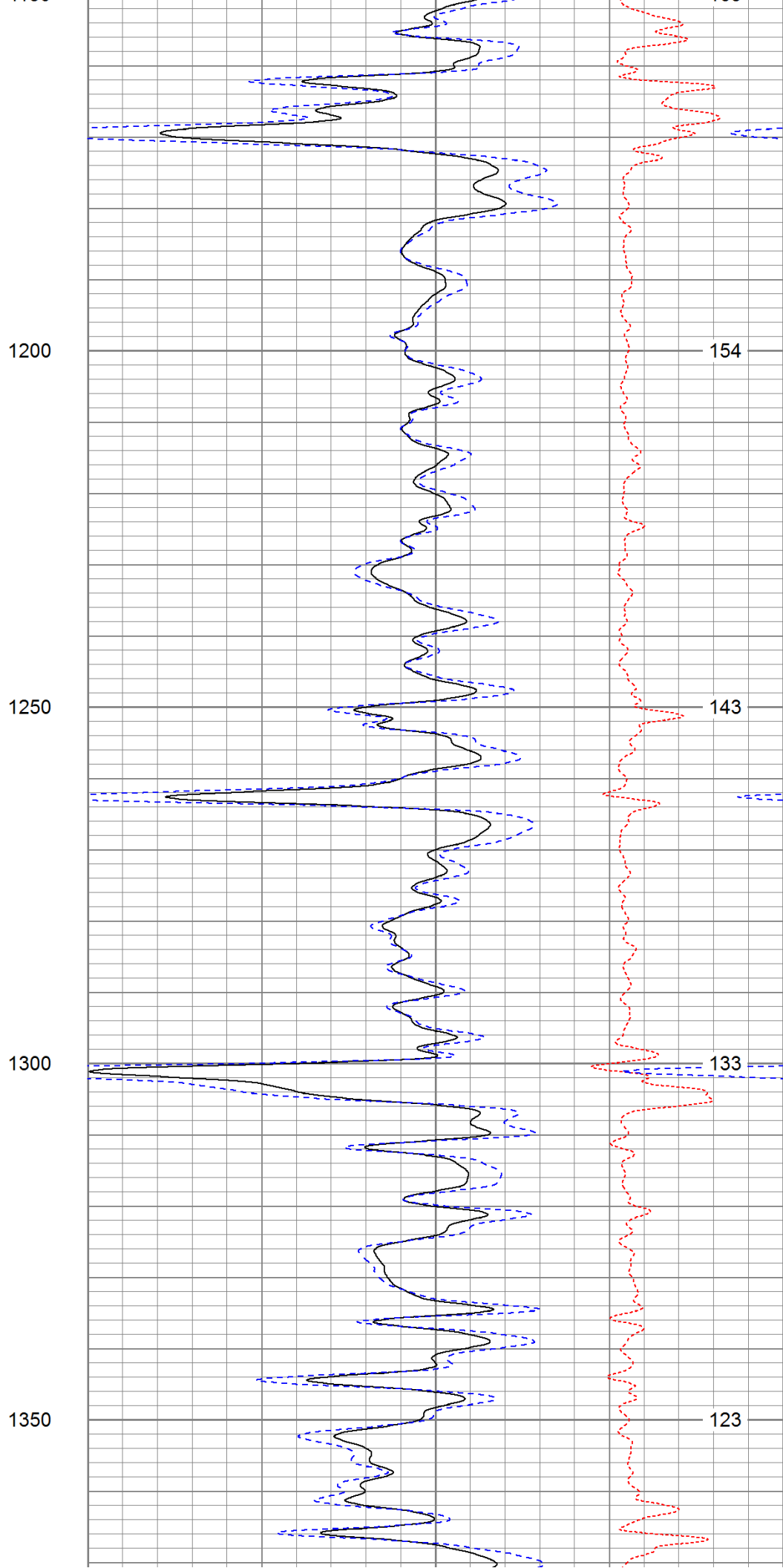
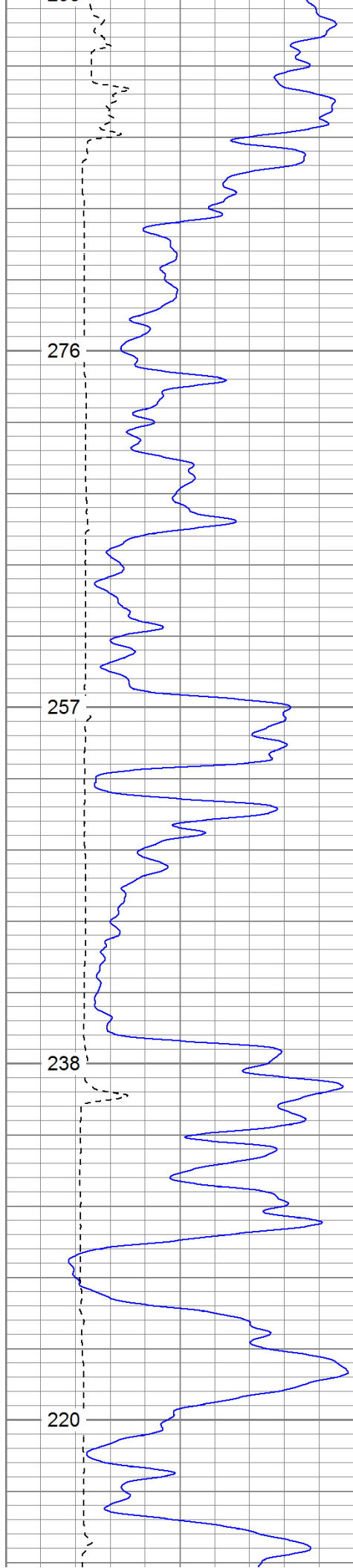
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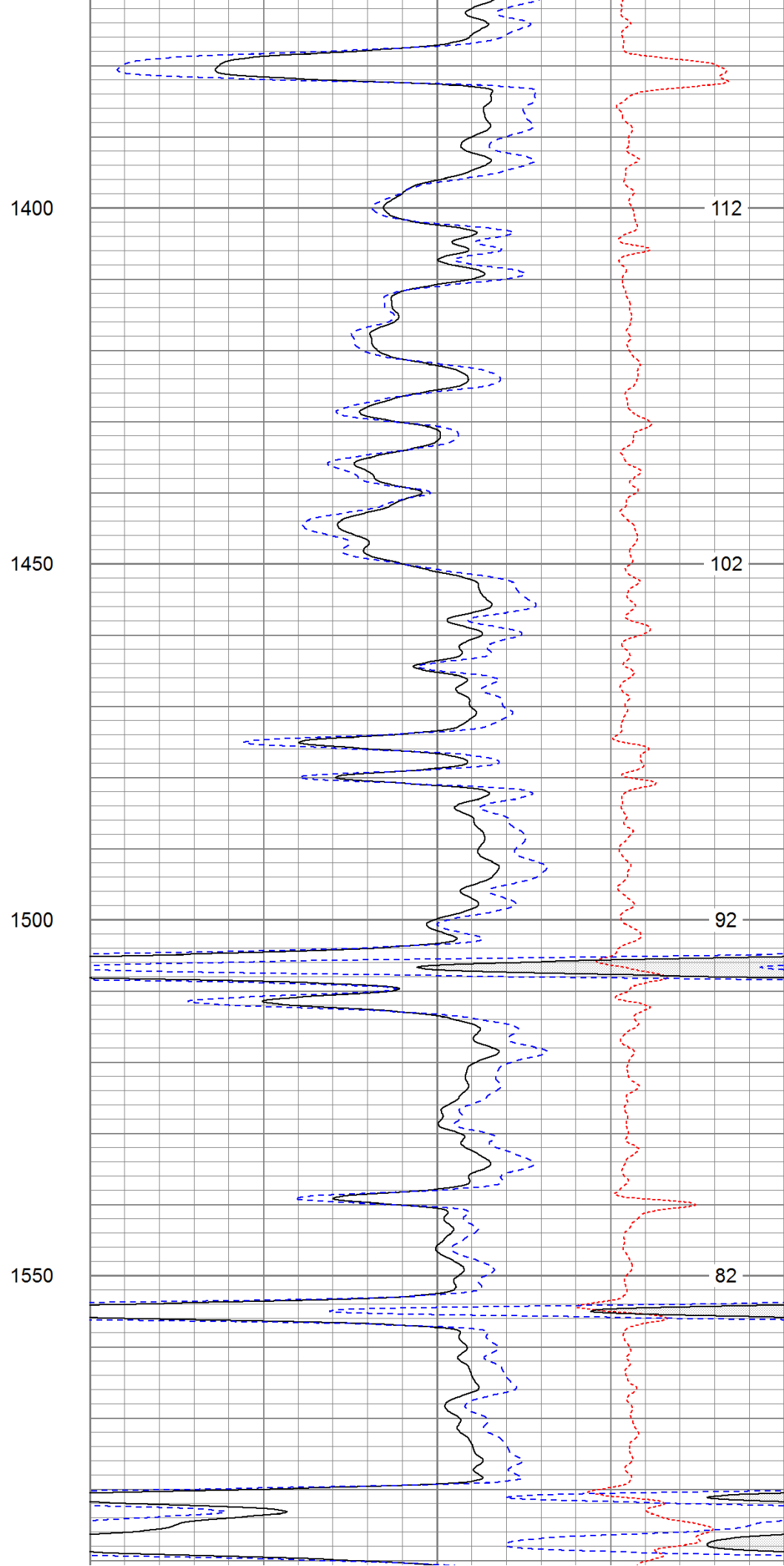
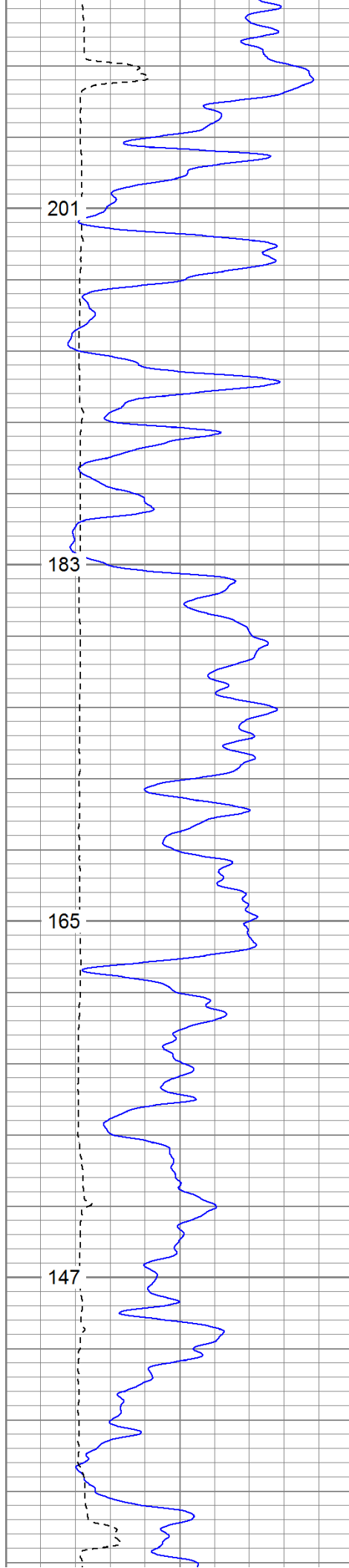
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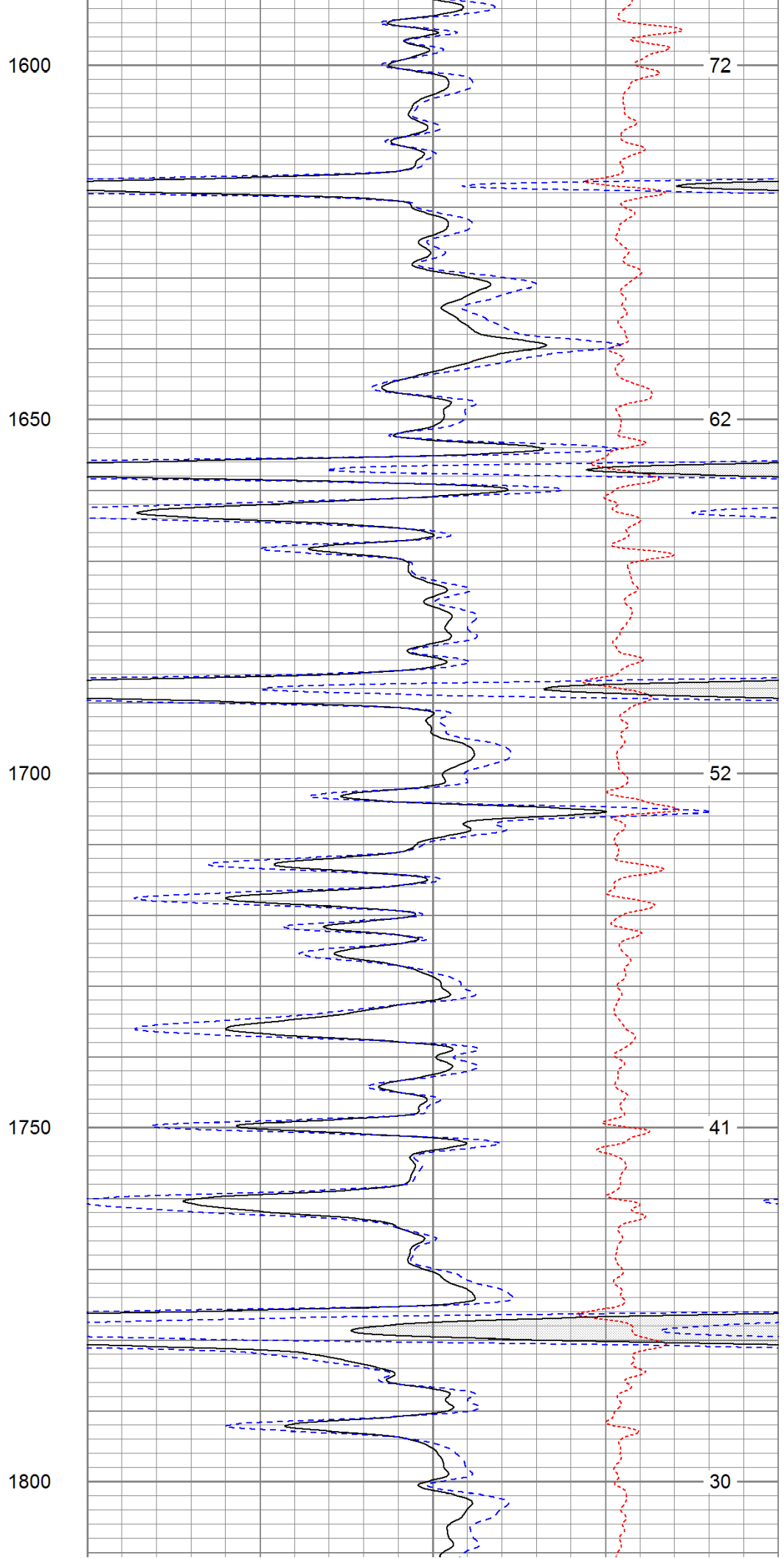
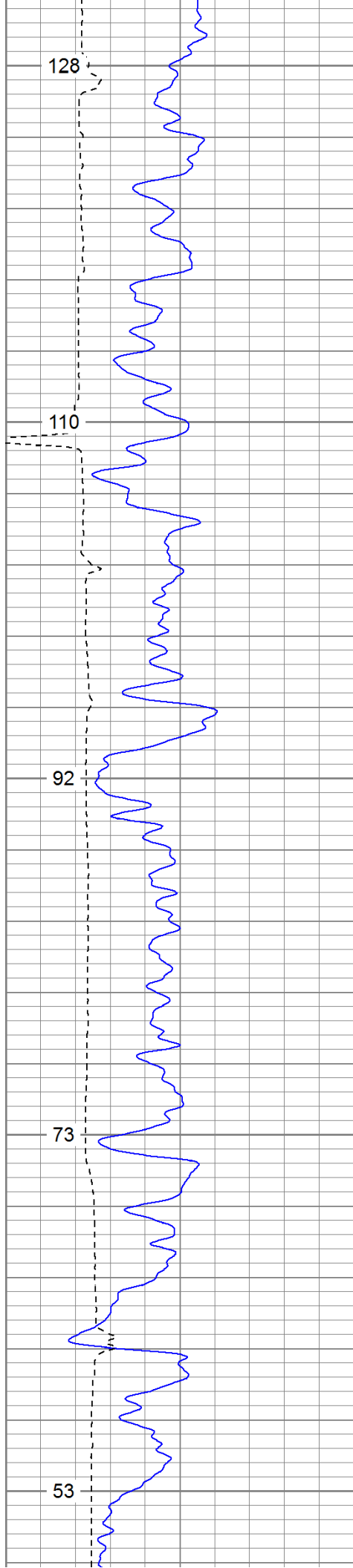
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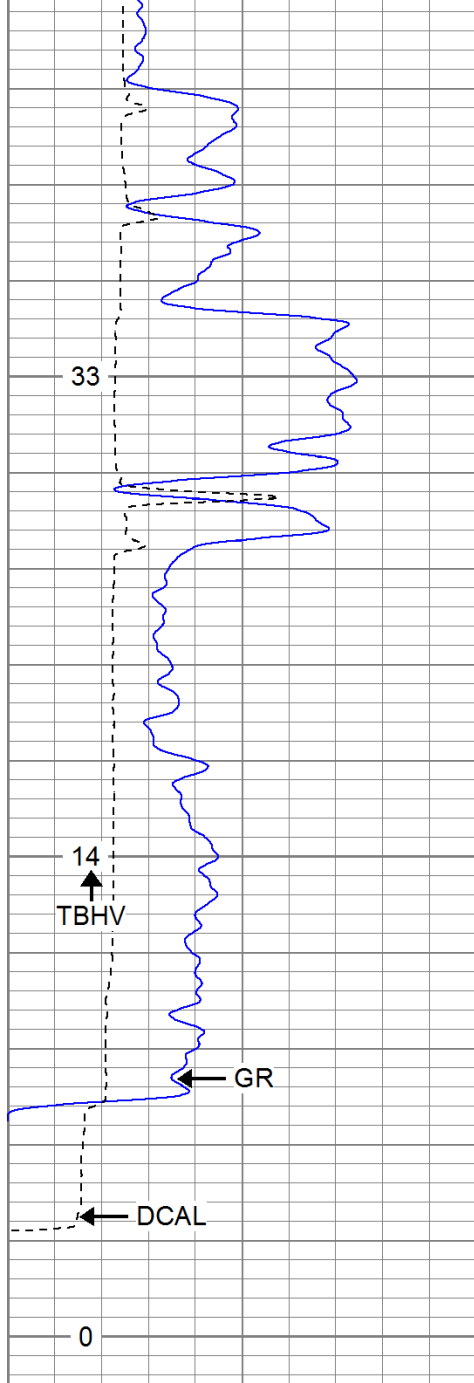
1150



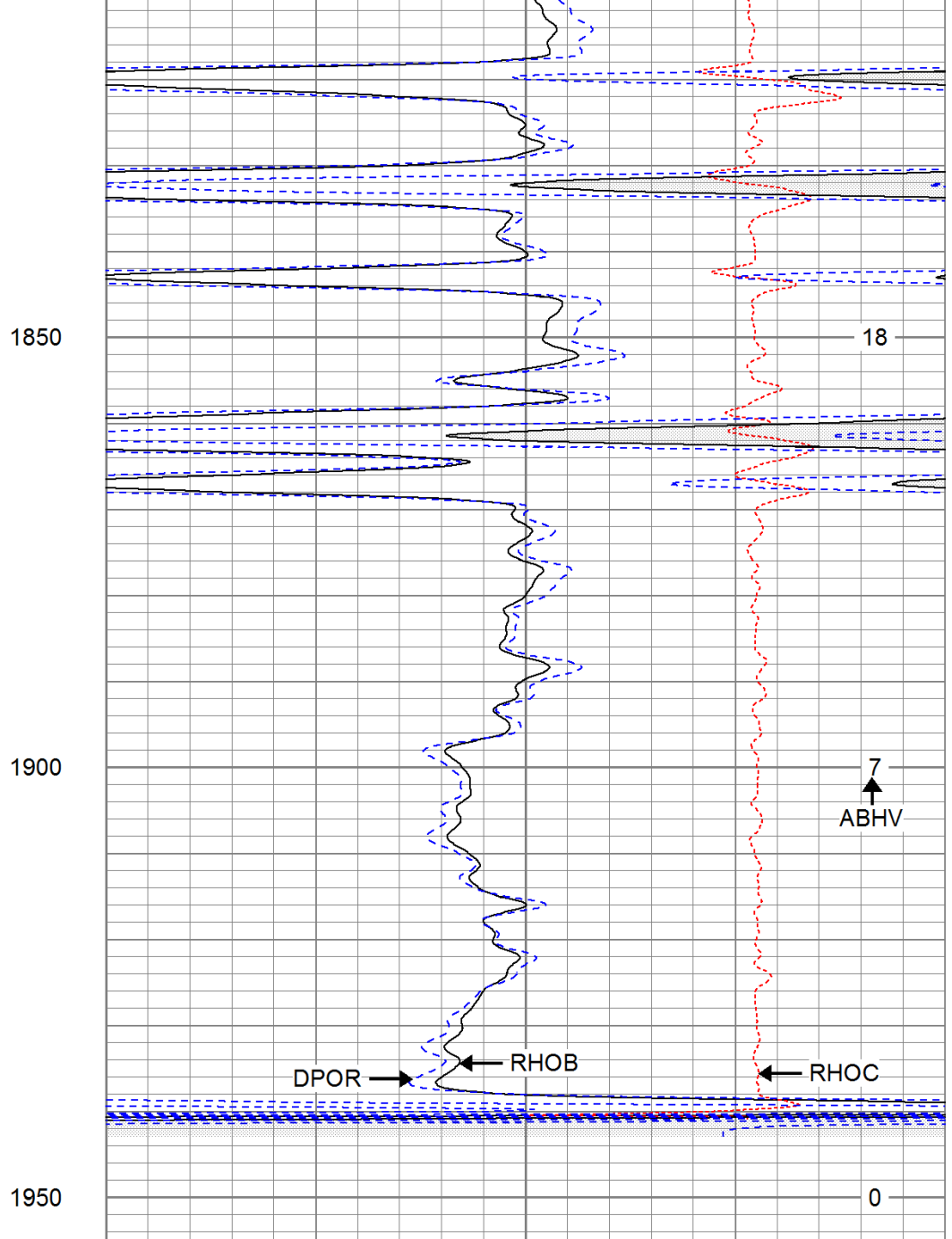








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
ABHV (ft3)		

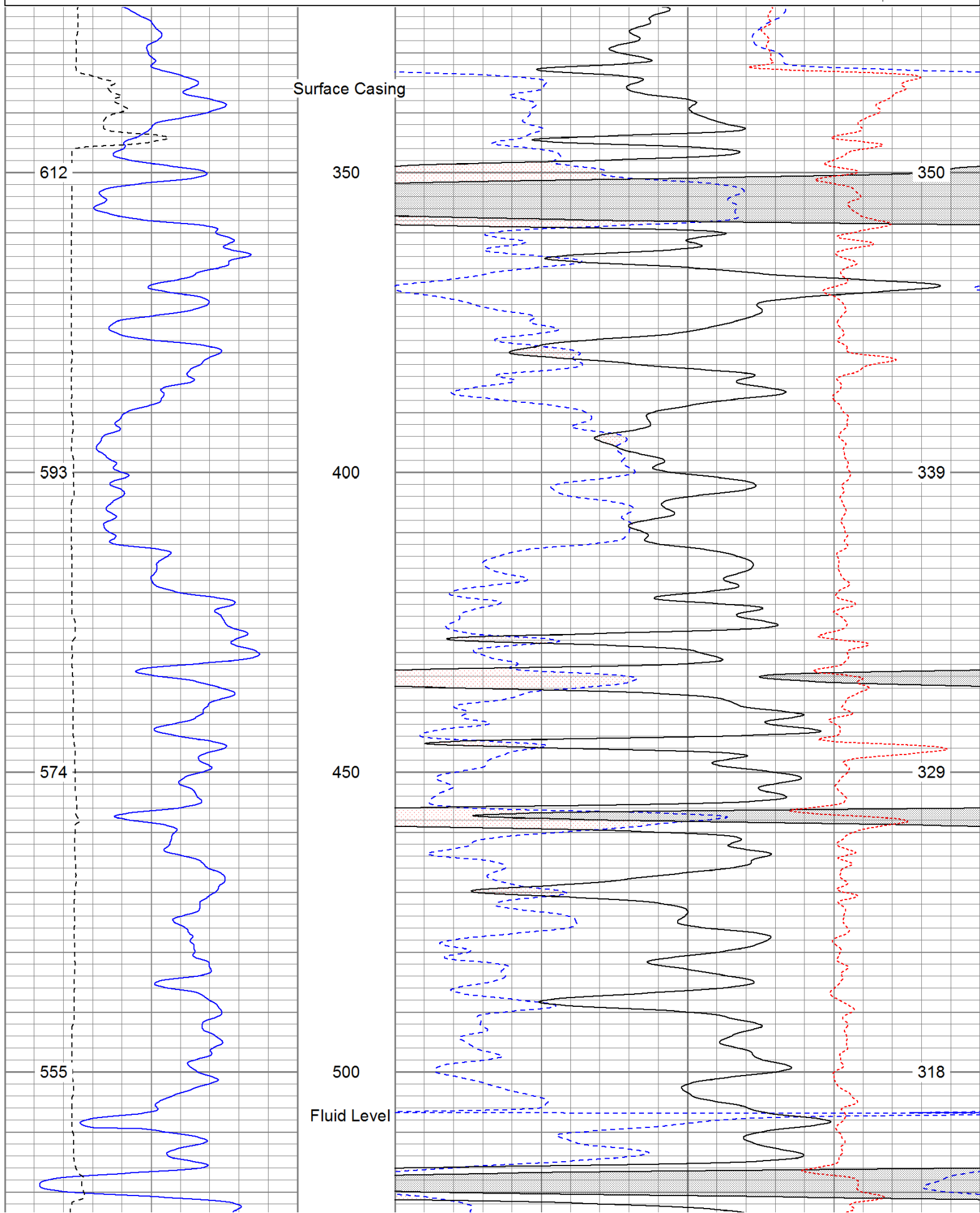


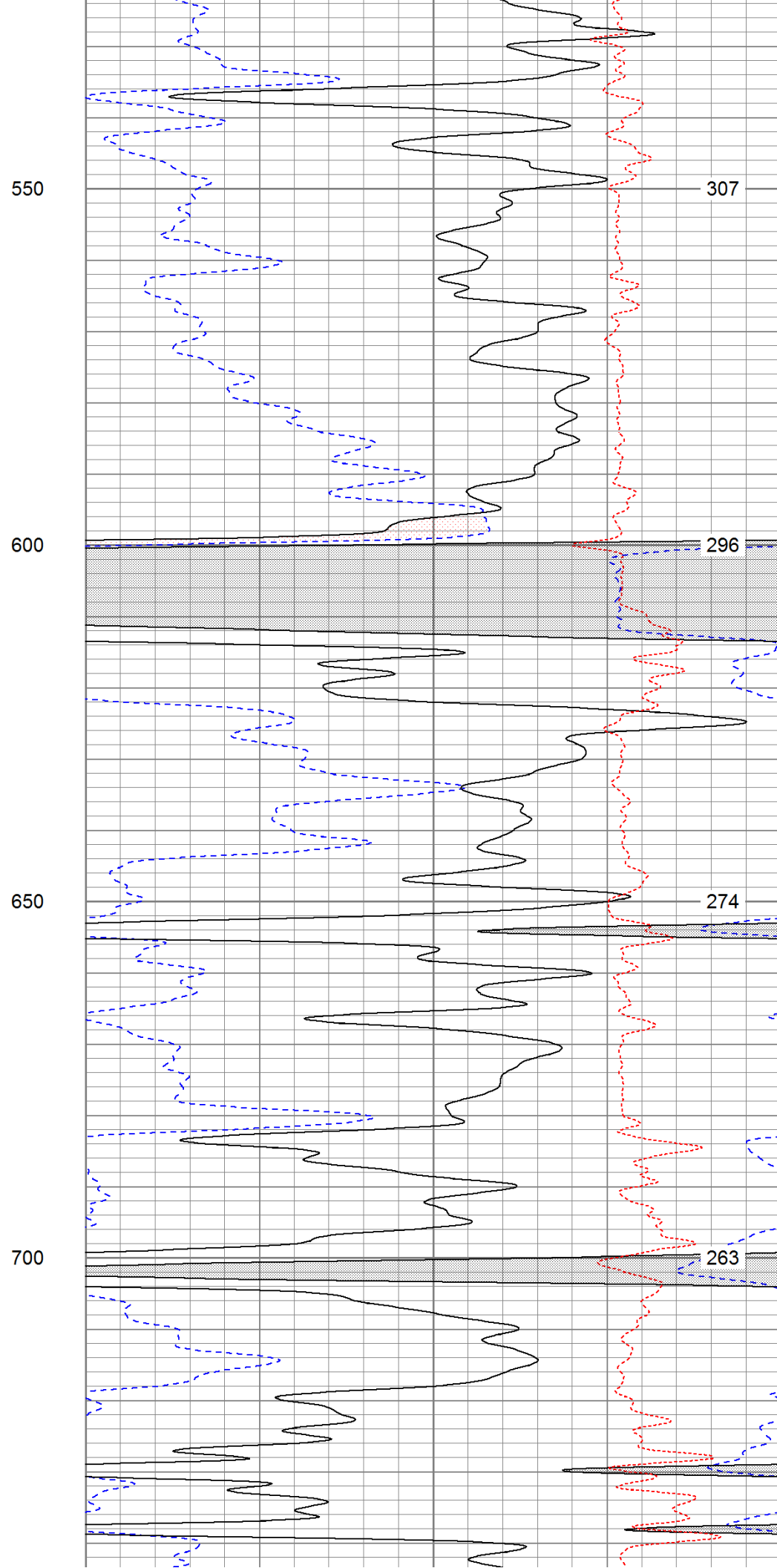
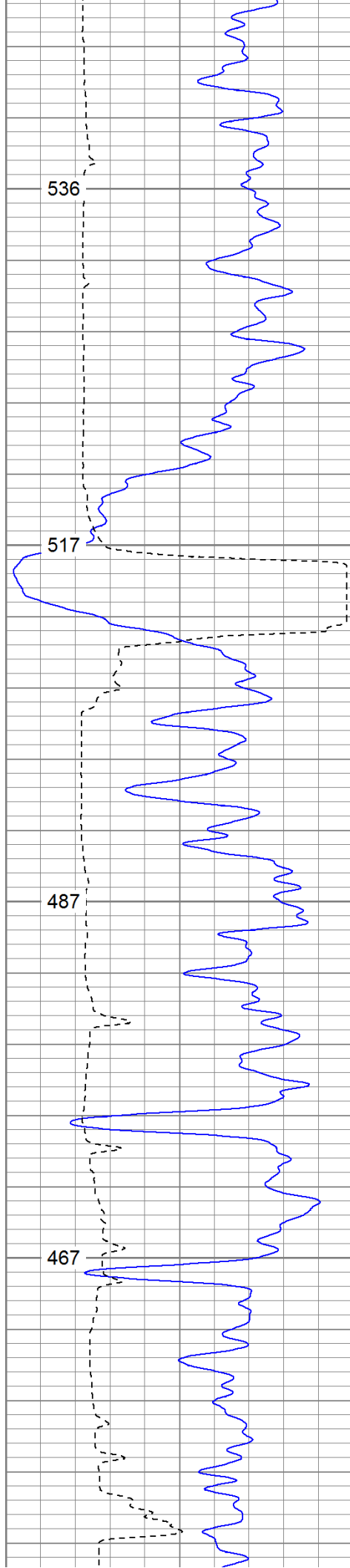
Main Pass

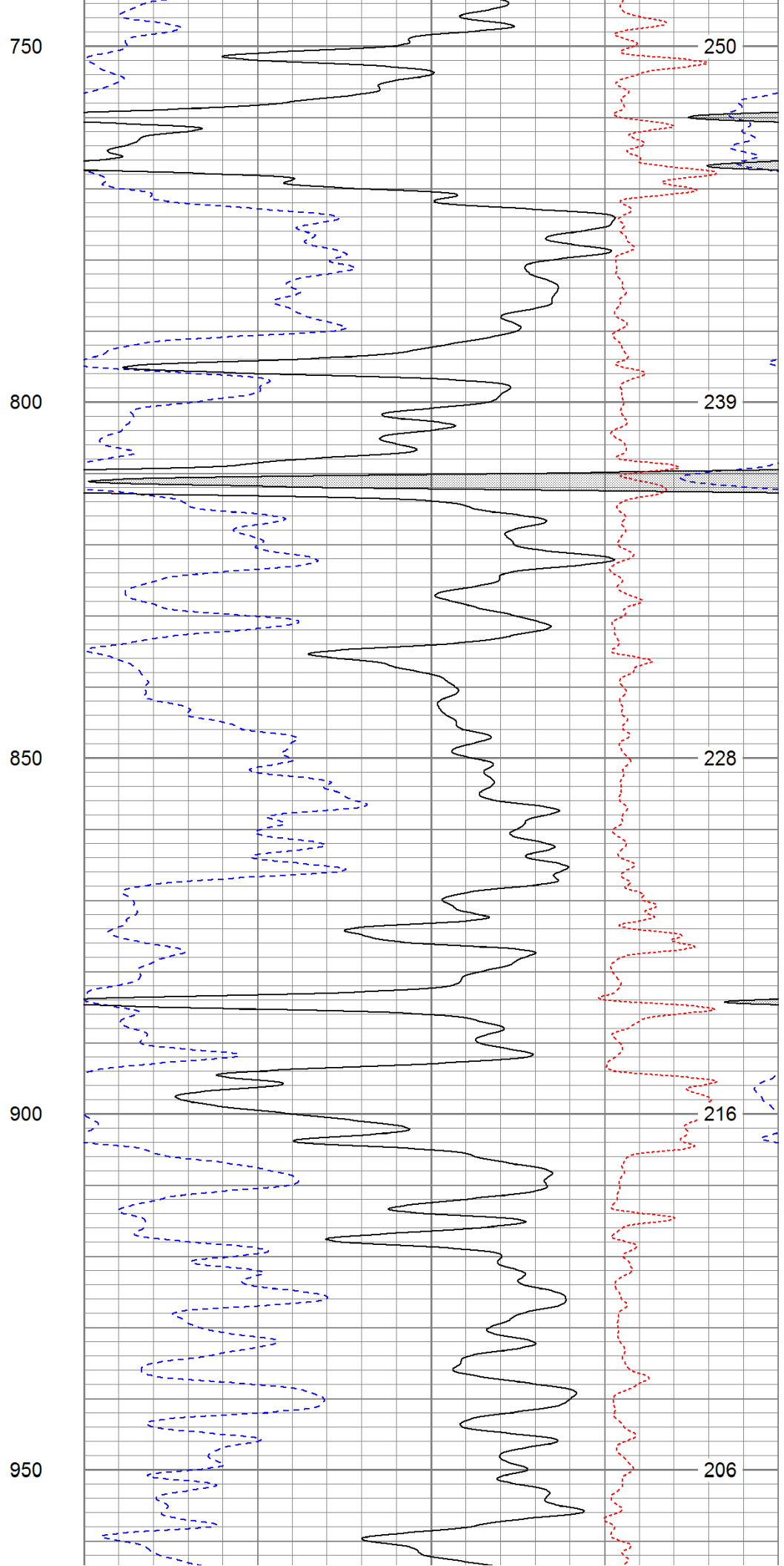
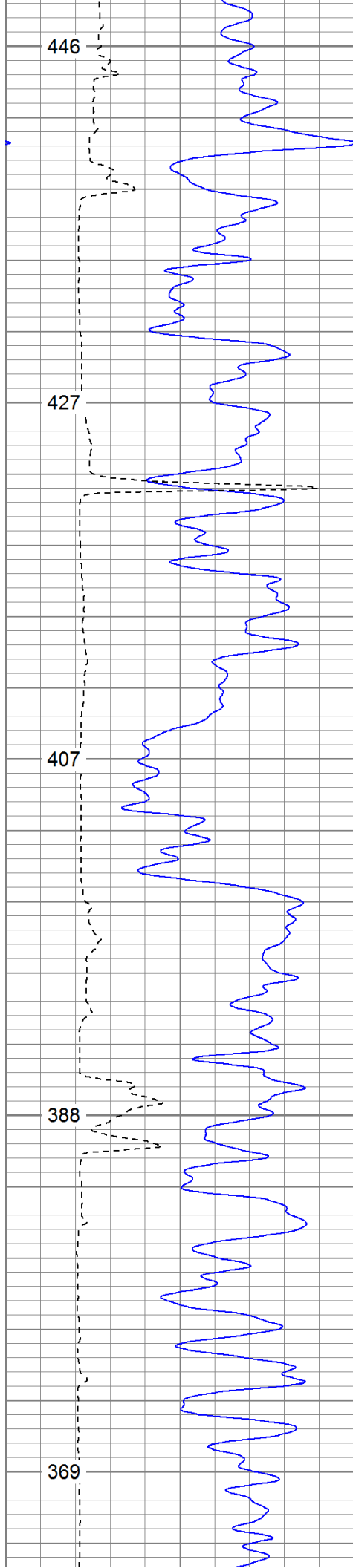
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 Dataset Pathname: pass2.1
 Presentation Format: cdnl
 Dataset Creation: Thu Oct 13 00:55:29 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

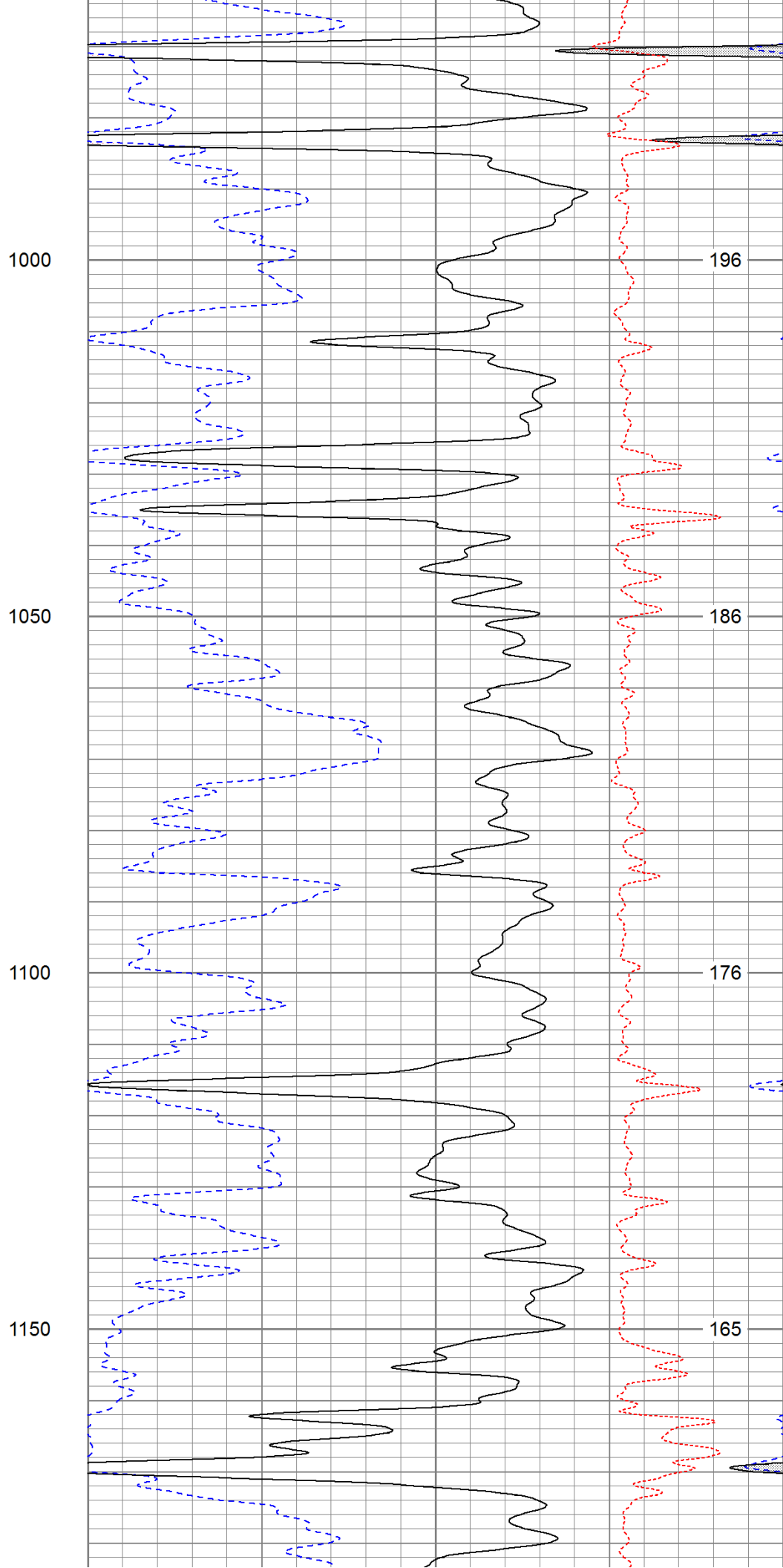
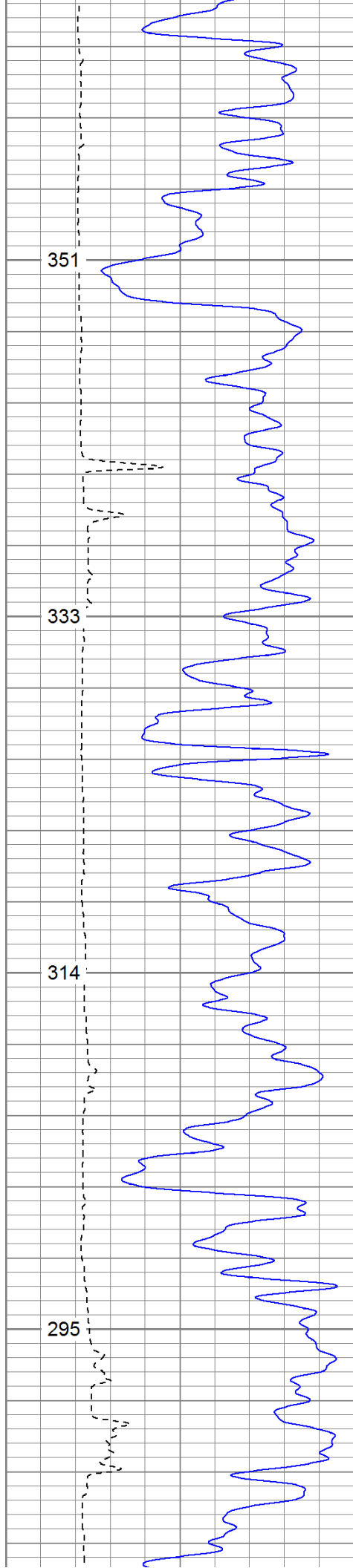
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

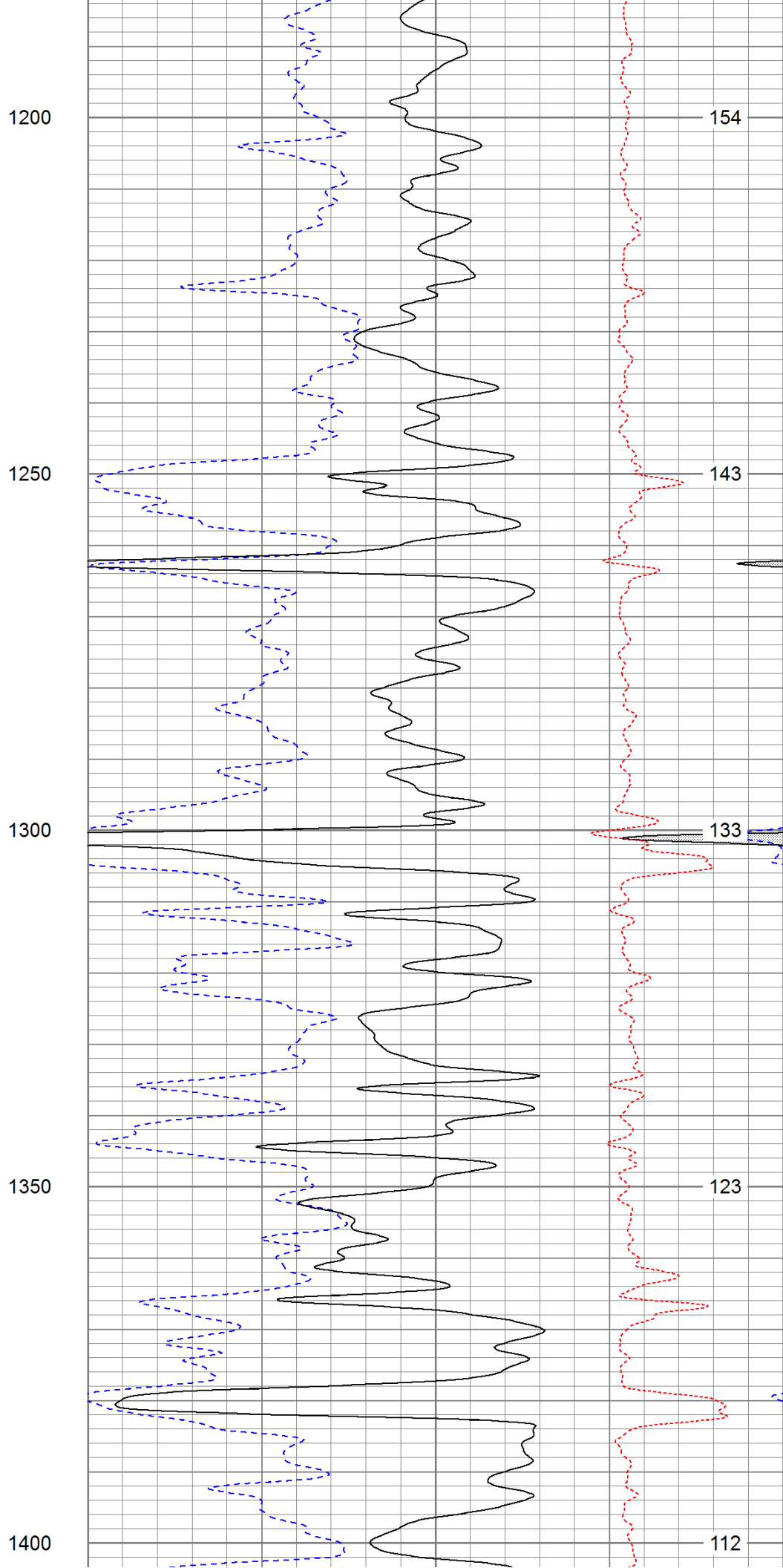
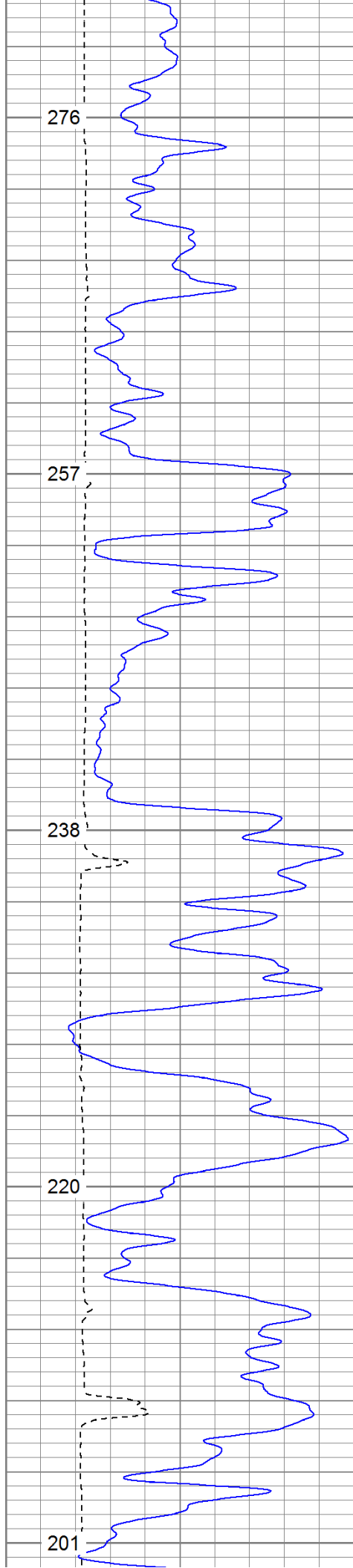
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
ABHV (ft3)		

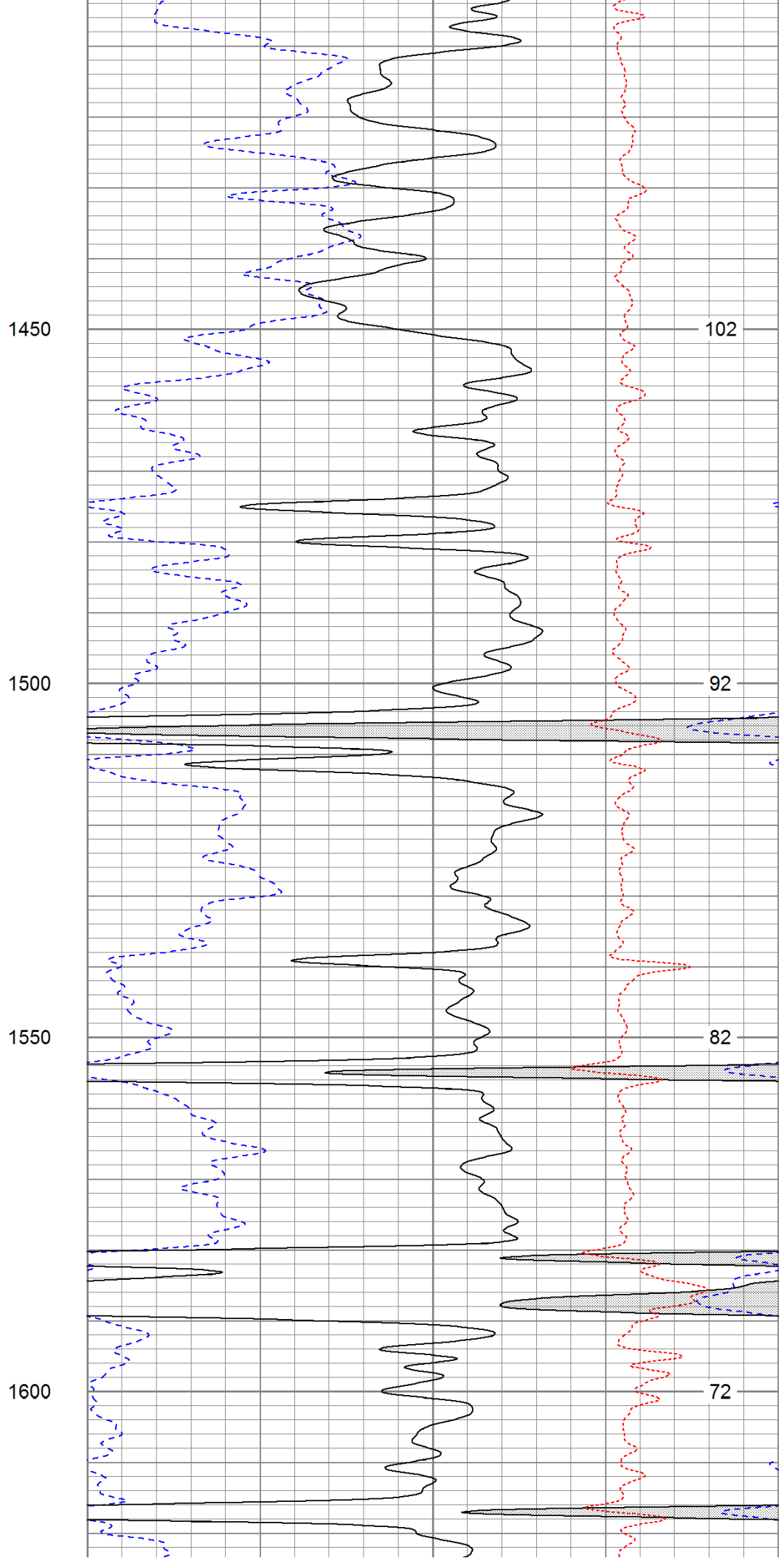
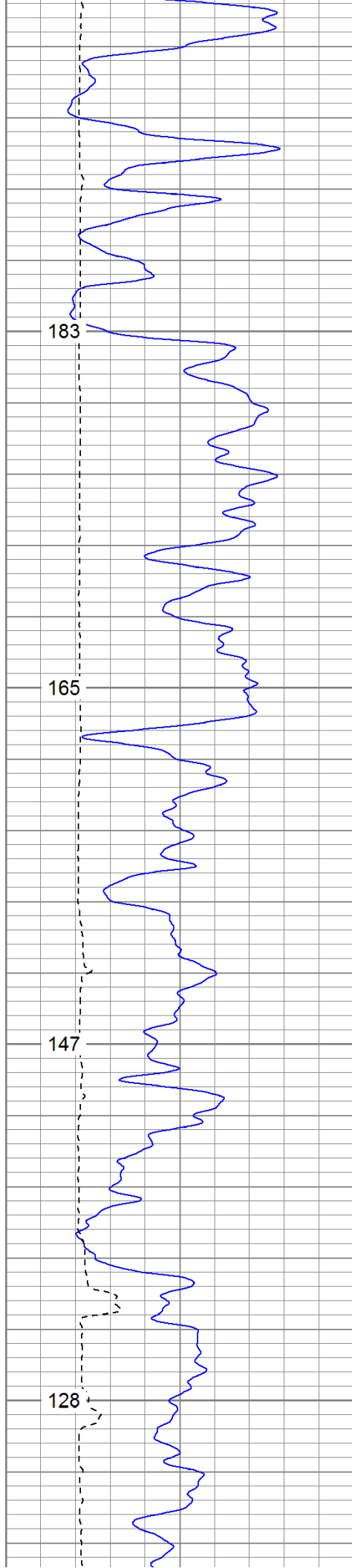


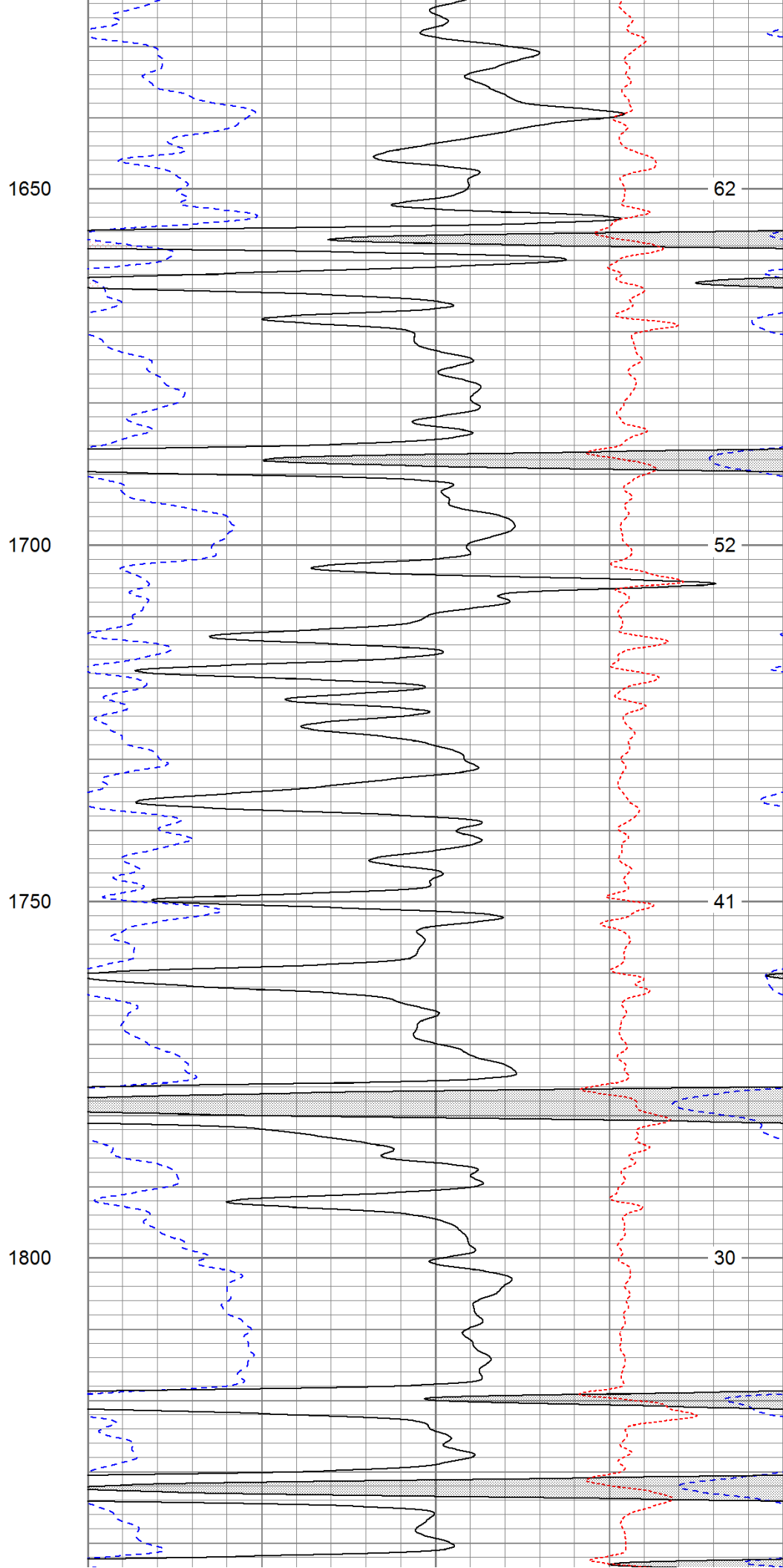
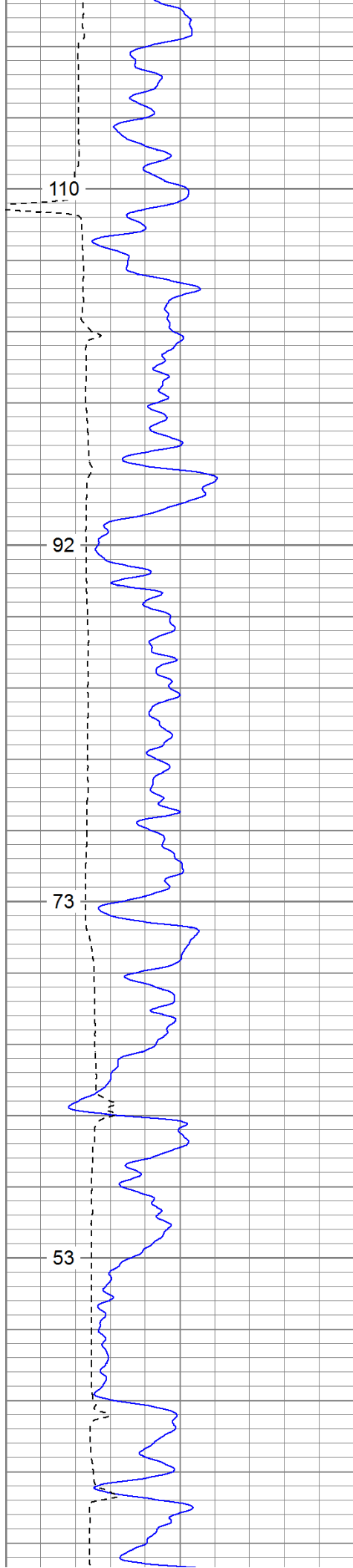


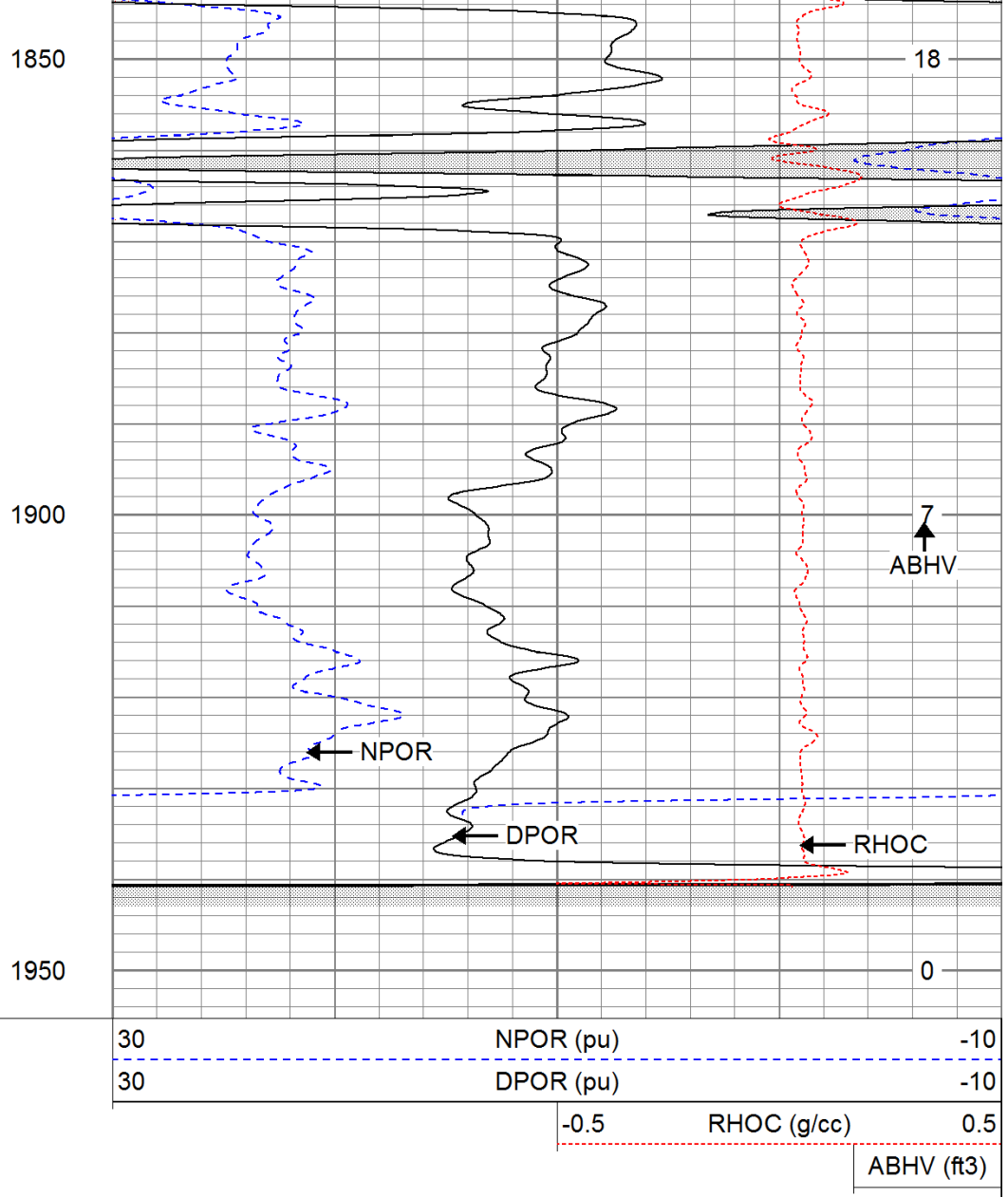
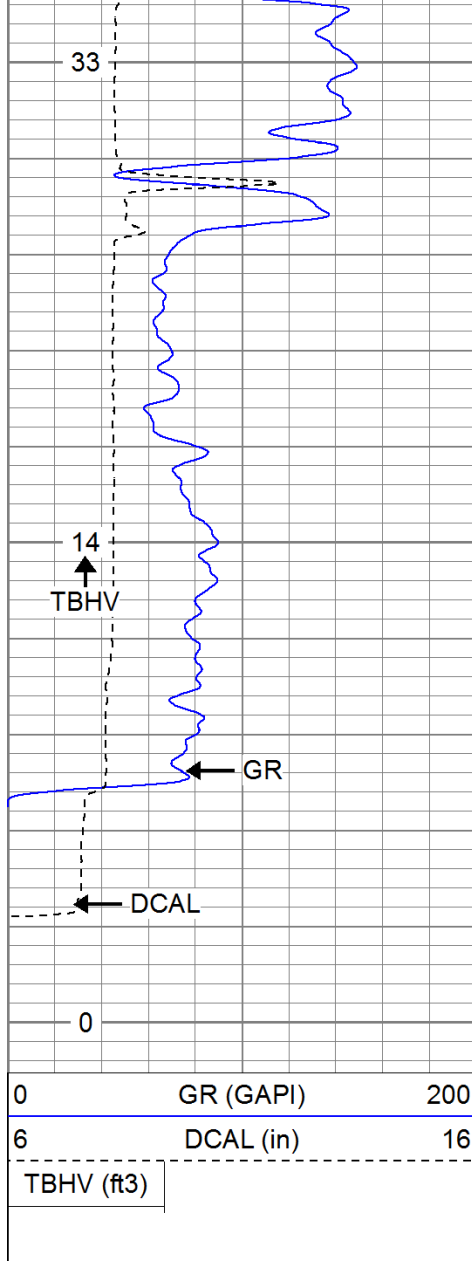










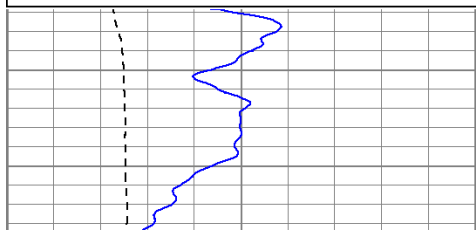


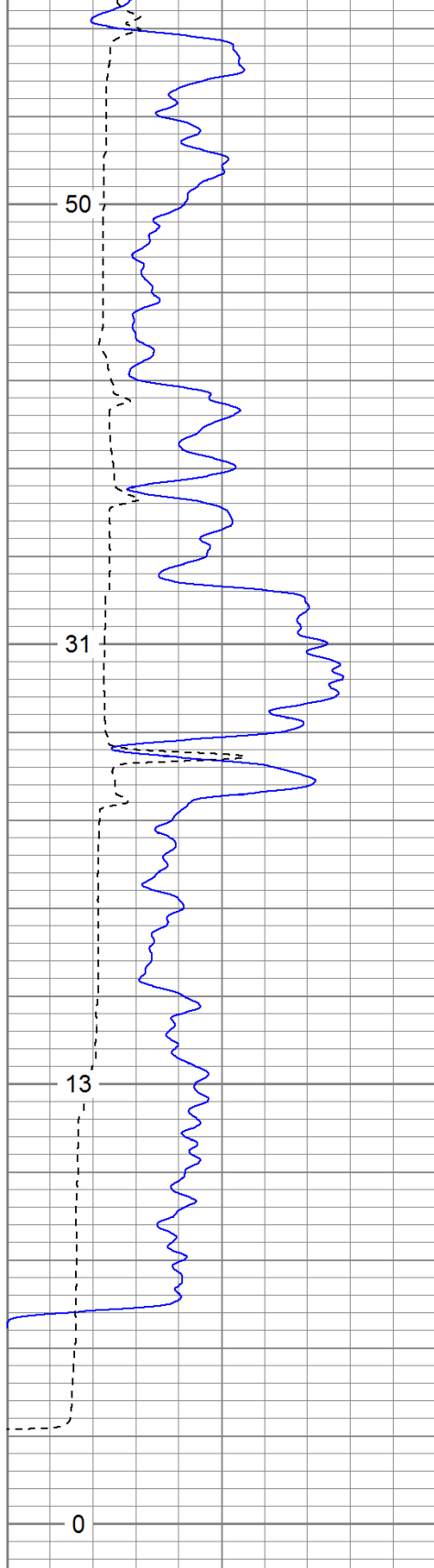
Repeat Pass

Database File: vallejo32-19.db
 Dataset Pathname: pass1.1
 Presentation Format: cdnl
 Dataset Creation: Thu Oct 13 01:01:30 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

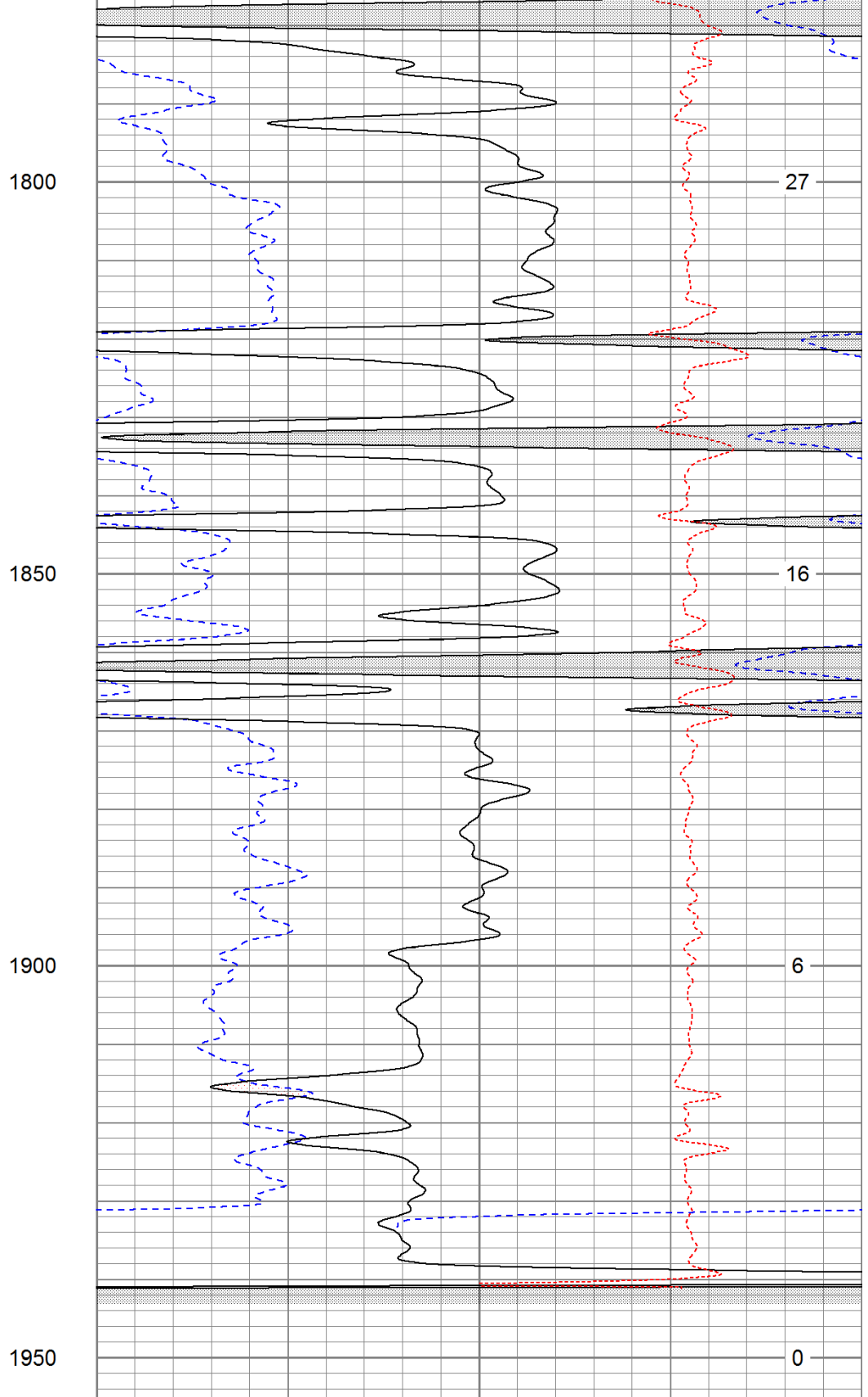
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
ABHV (ft3)		





0	GR (GAPI)	200
6	DCAL (in)	16

TBHV (ft3)



30	NPOR (pu)	-10
30	DPOR (pu)	-10

-0.5	RHOC (g/cc)	0.5
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ABHV (ft3)

Database File: vallejo32-19.db
Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Thu Oct 13 01:05:15 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:120

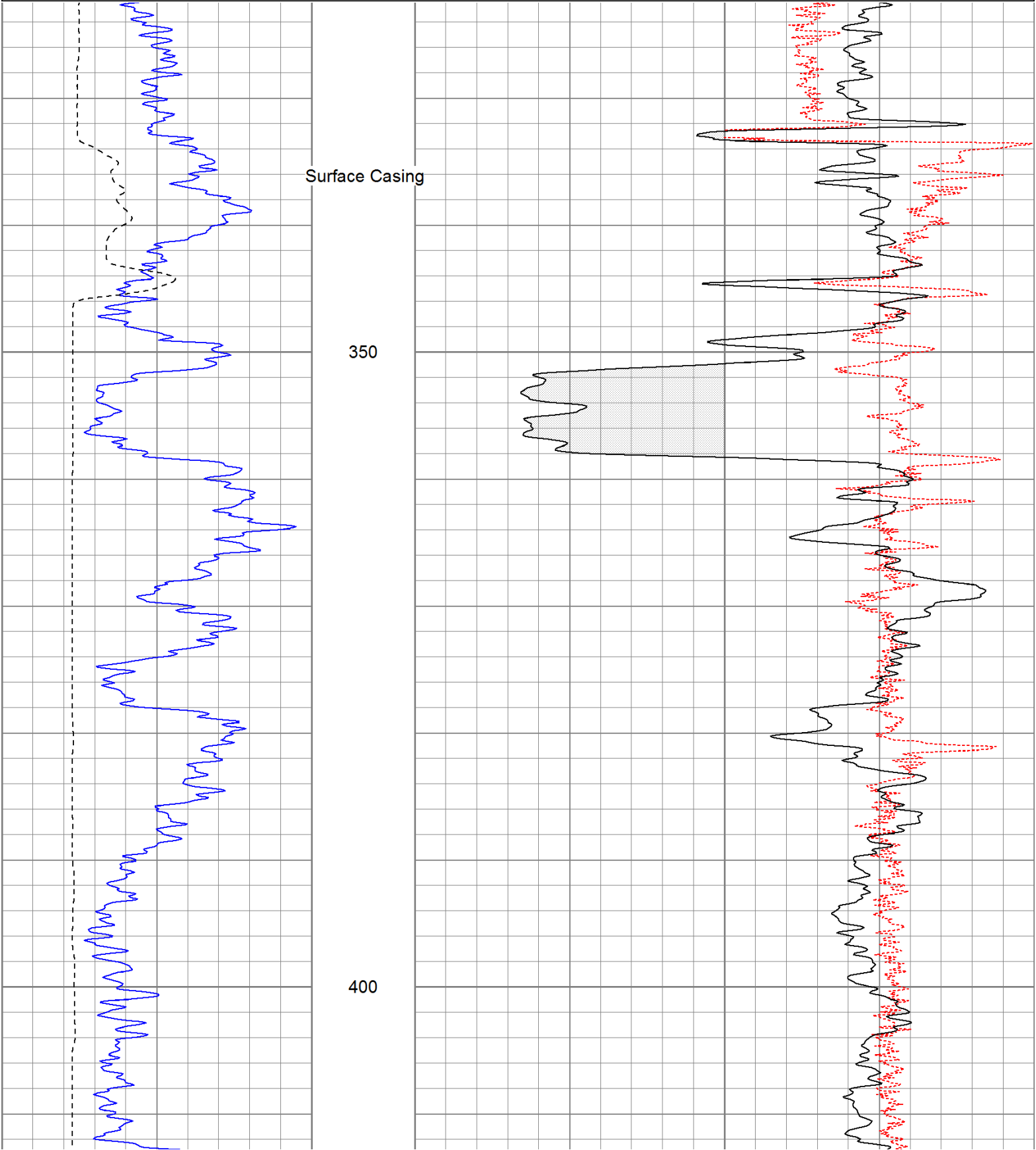
0 GR (GAPI) 200
6 DCAL (in) 16

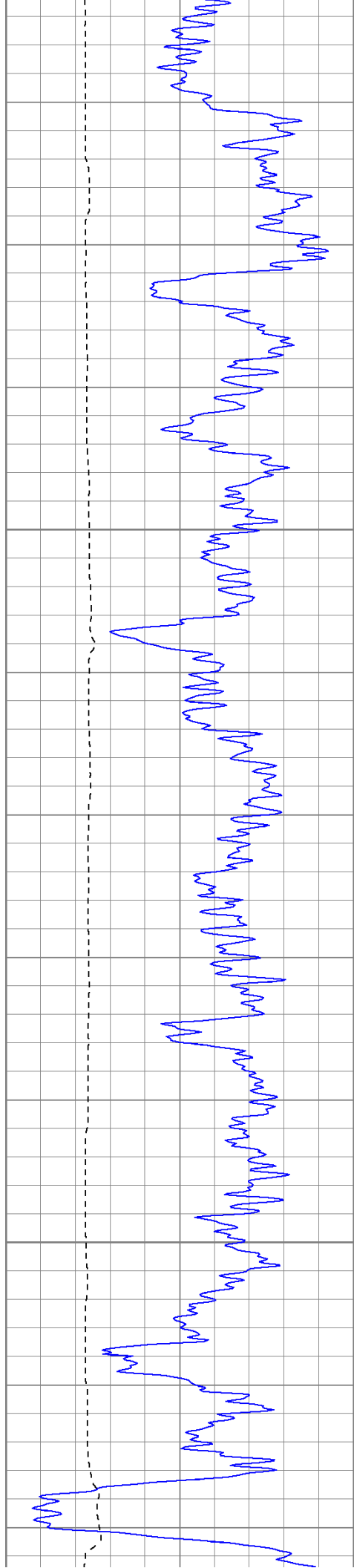
1 RHOB (g/cc) 3
-0.5 RHOC (g/cc) 0.5

Surface Casing

350

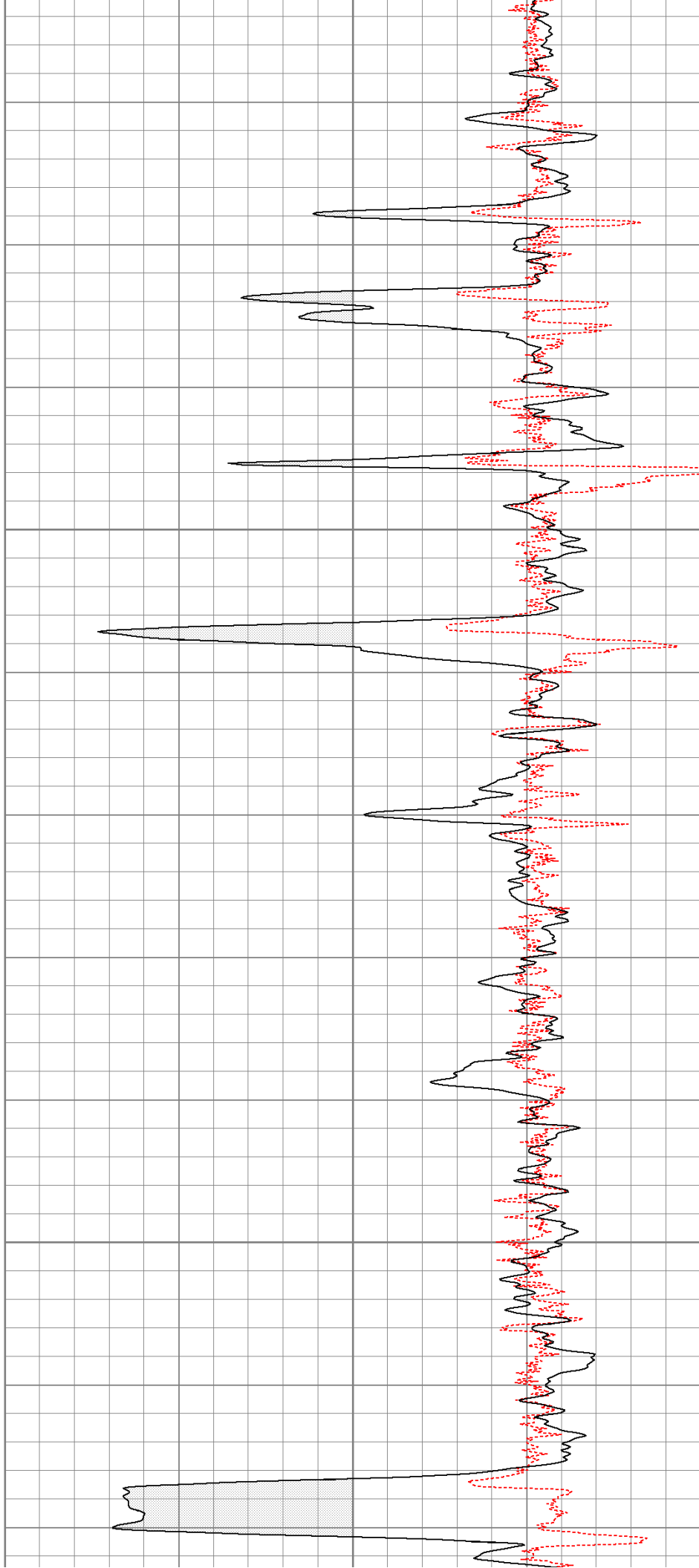
400

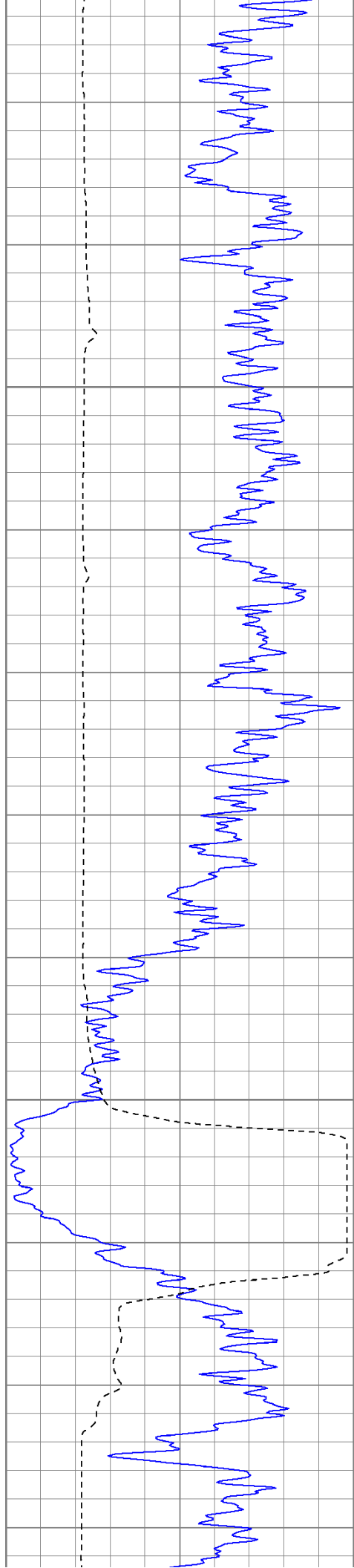




450

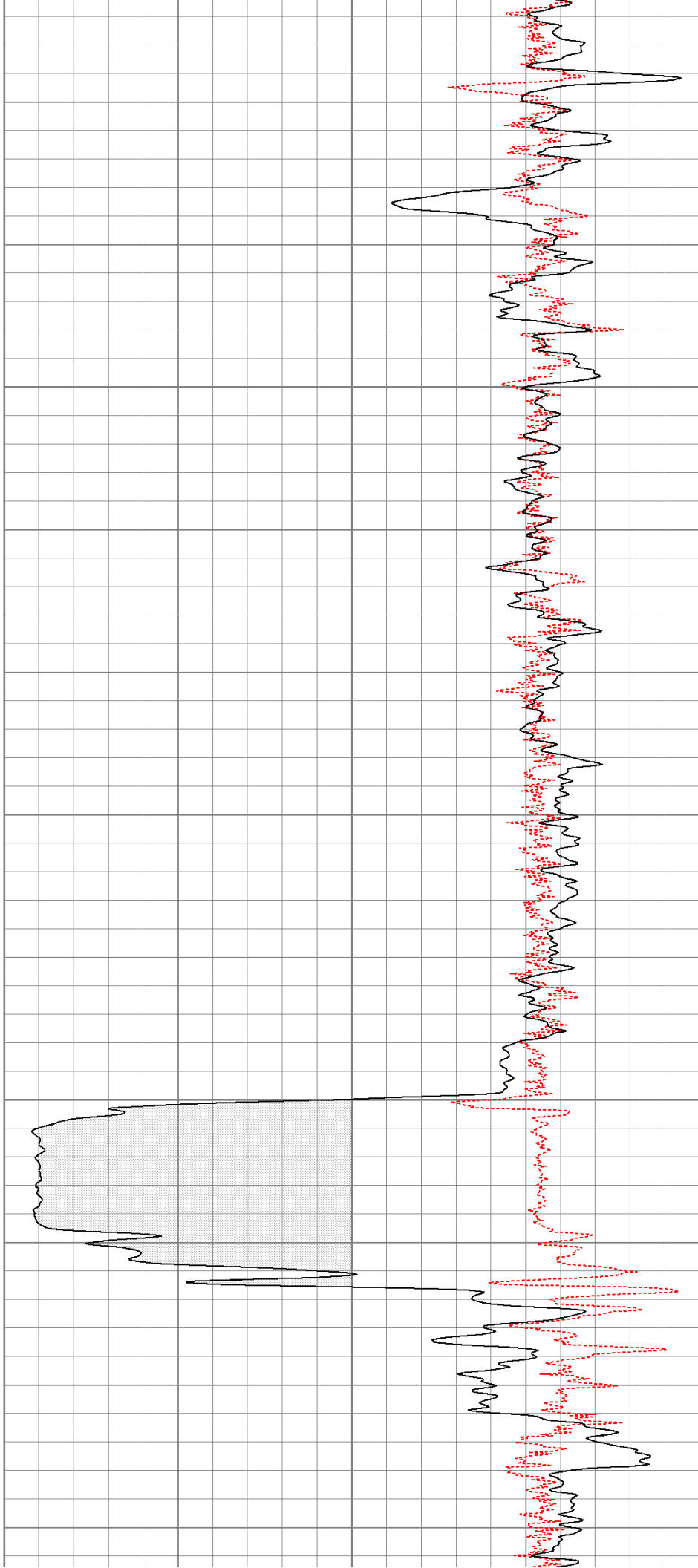
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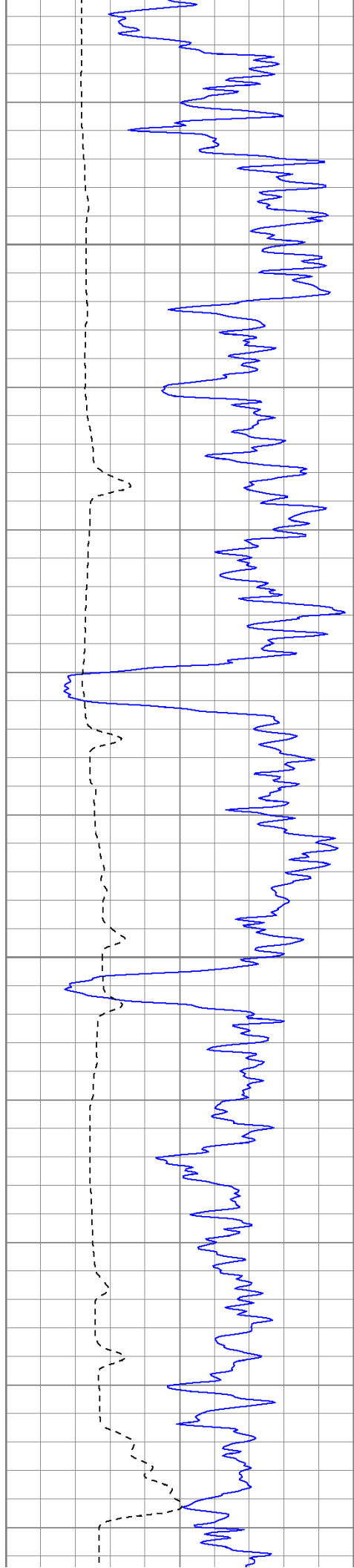




550

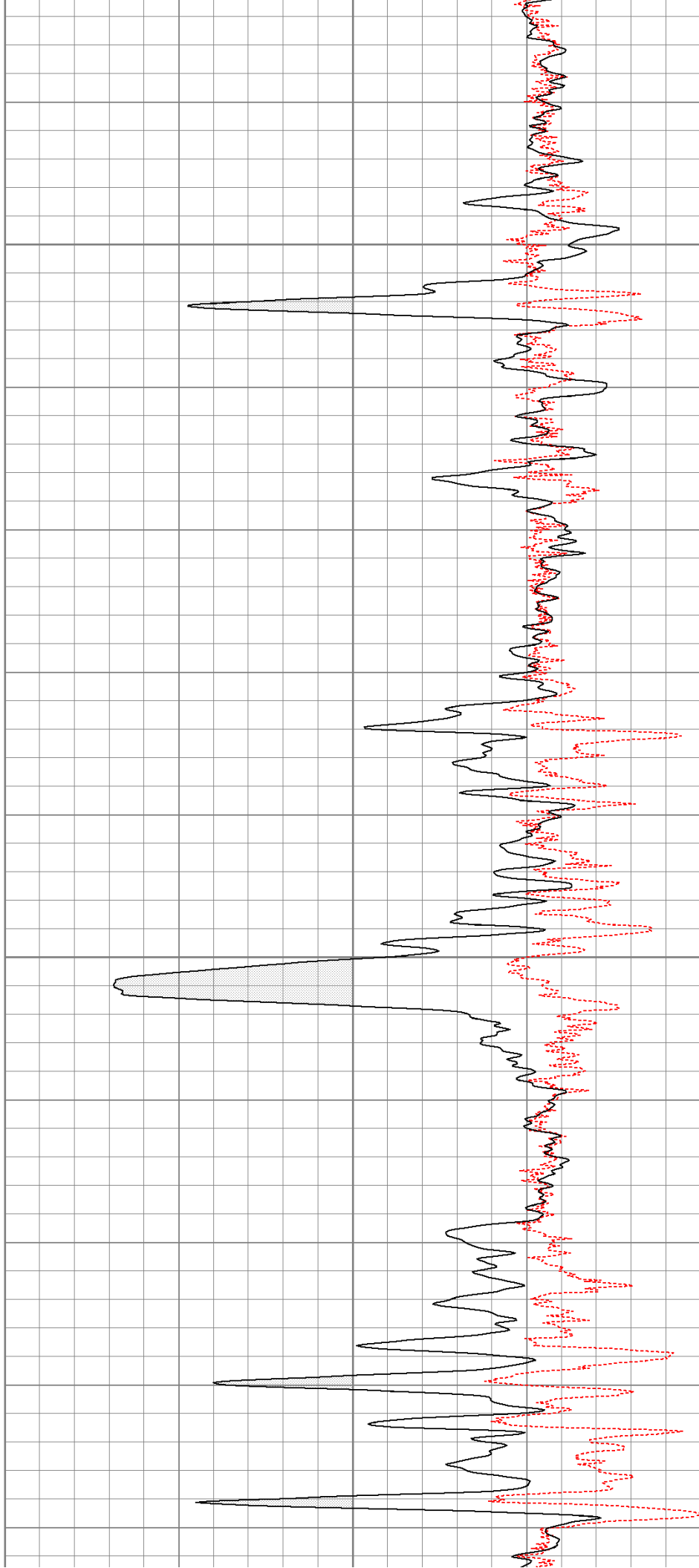
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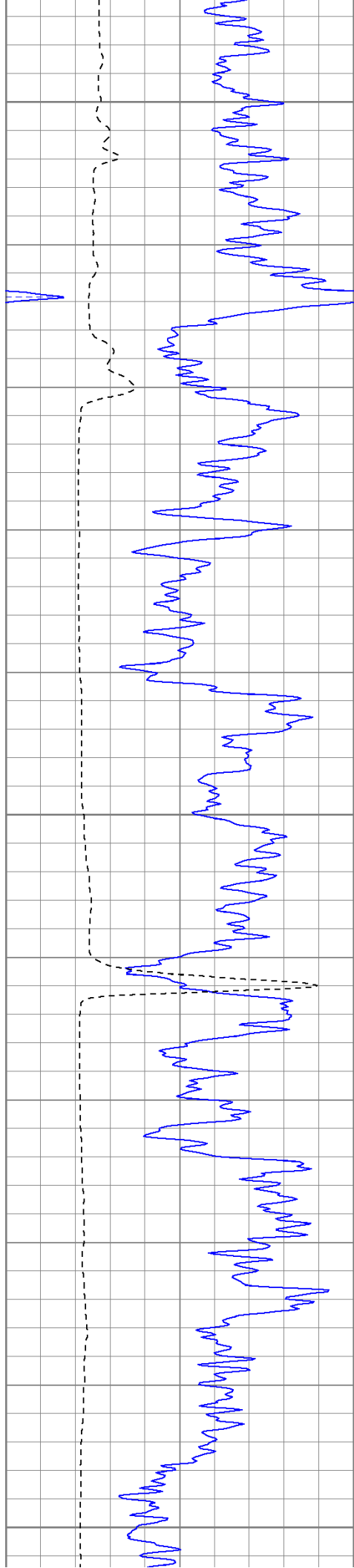




650

700

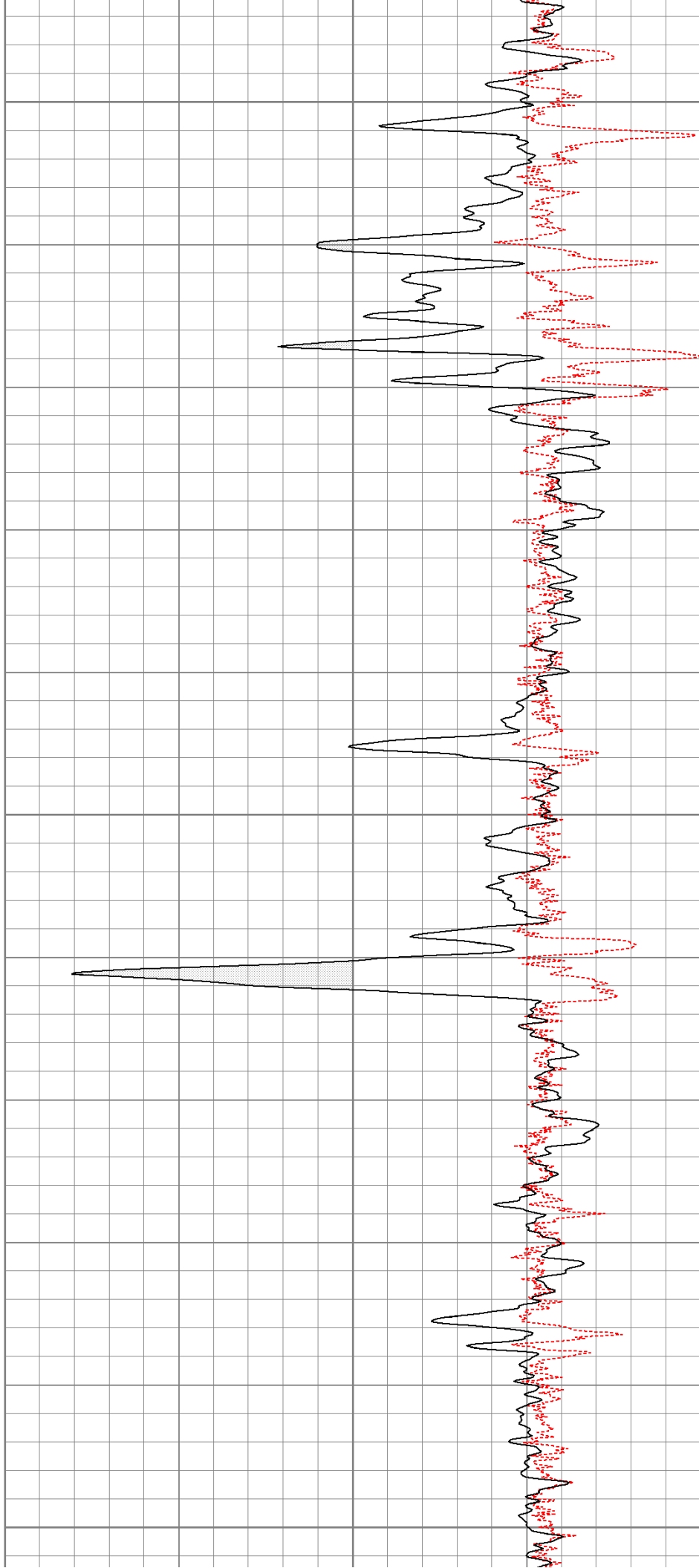


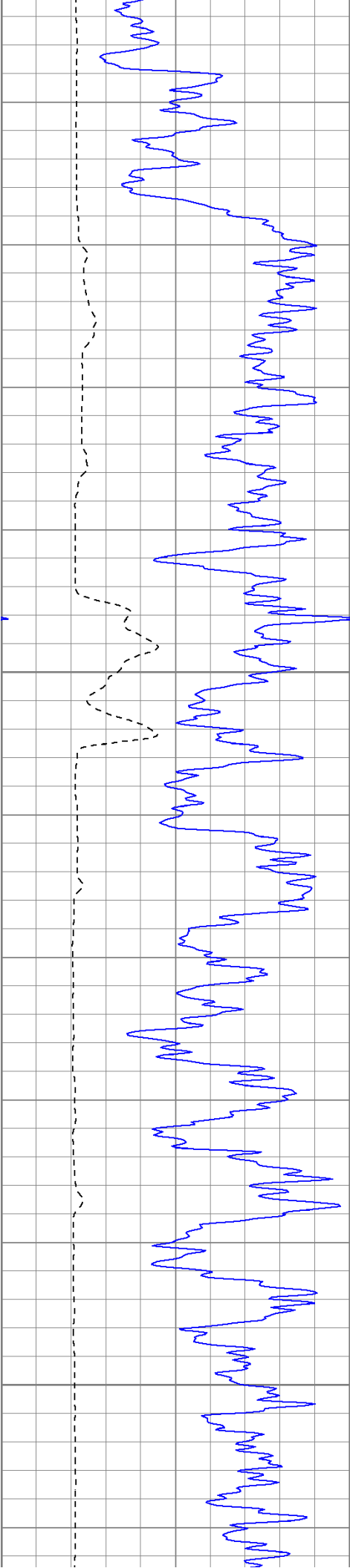


750

800

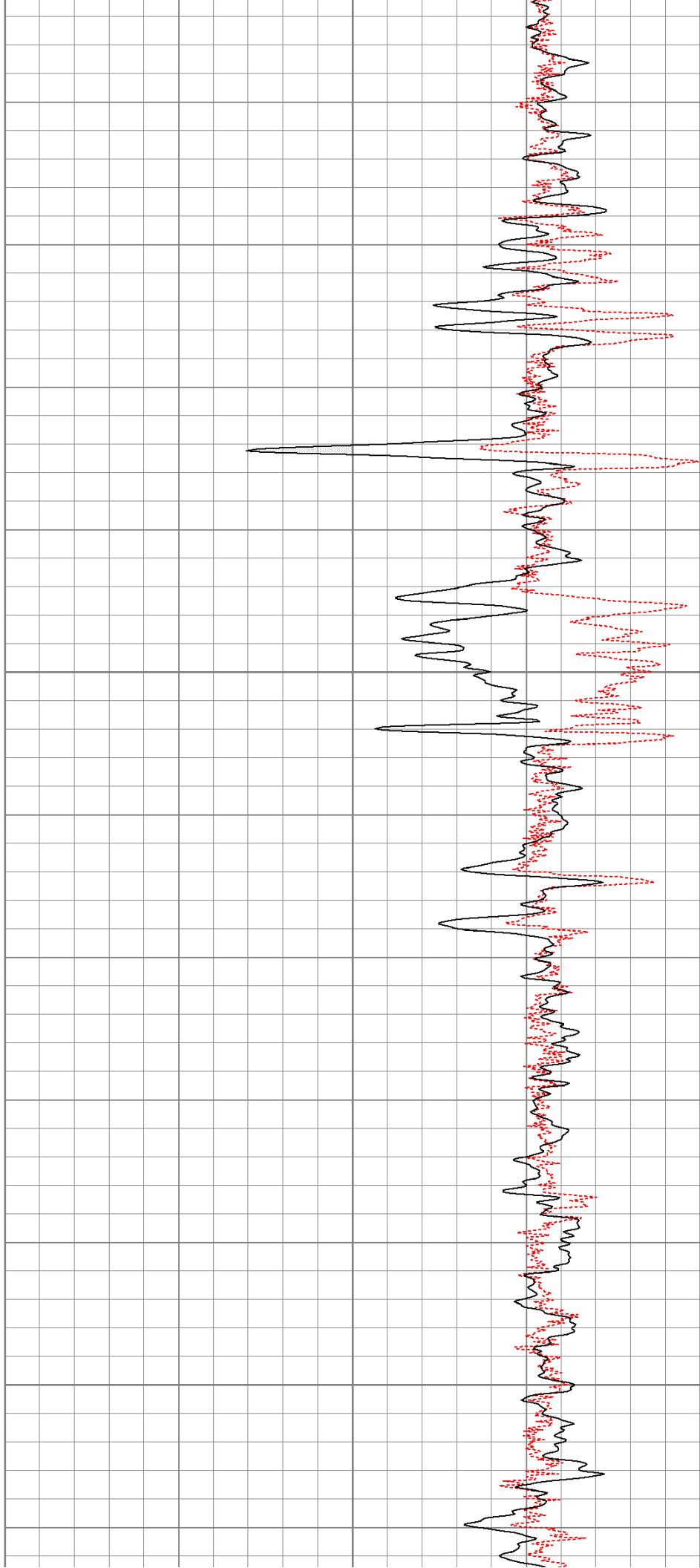
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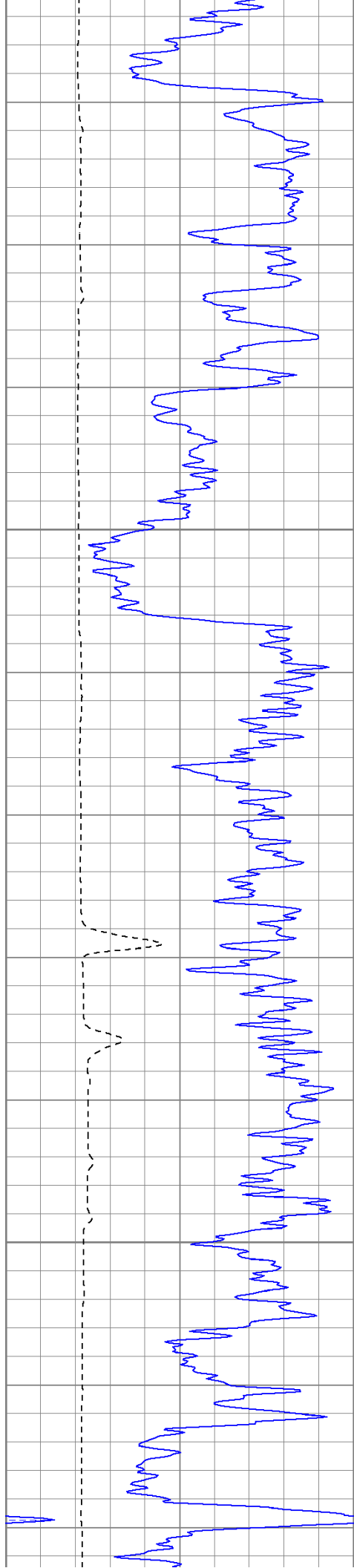




900

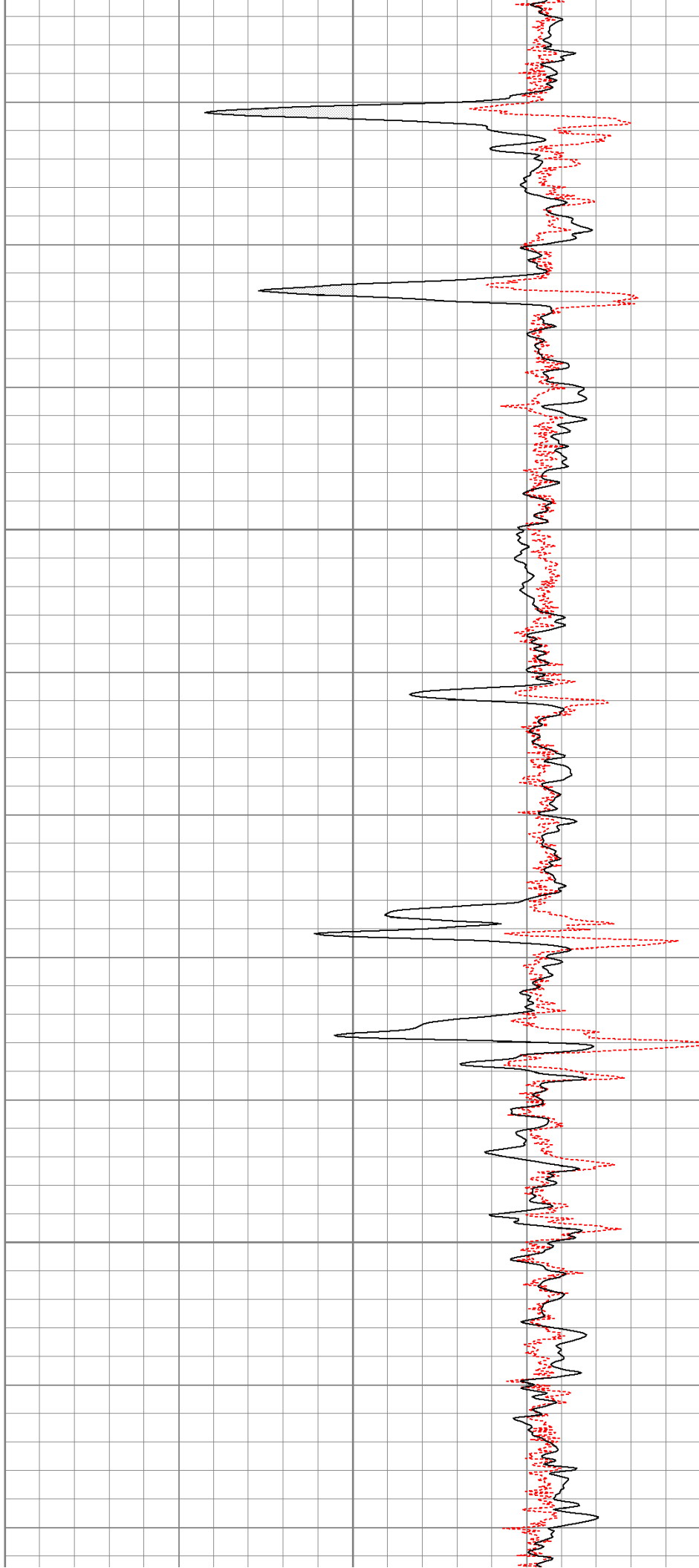
950

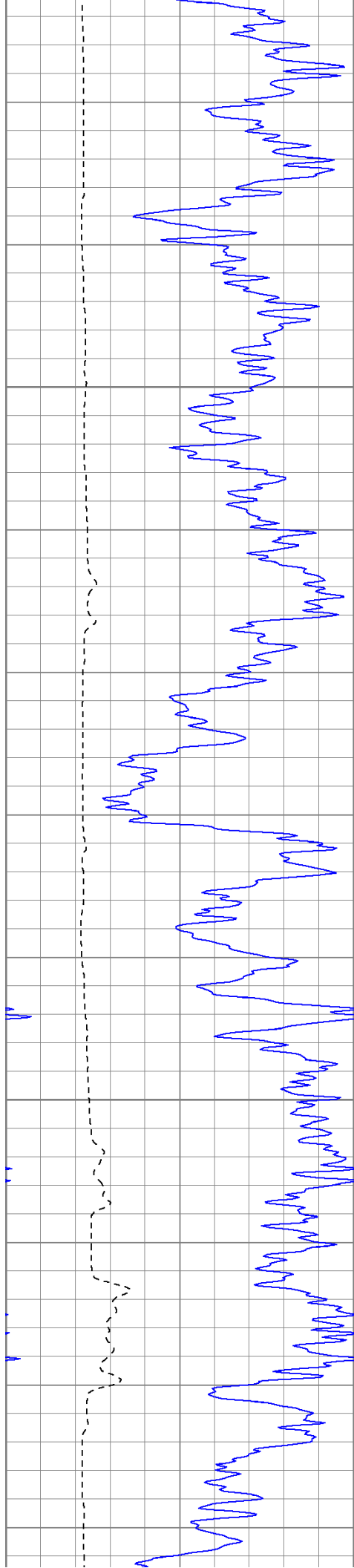




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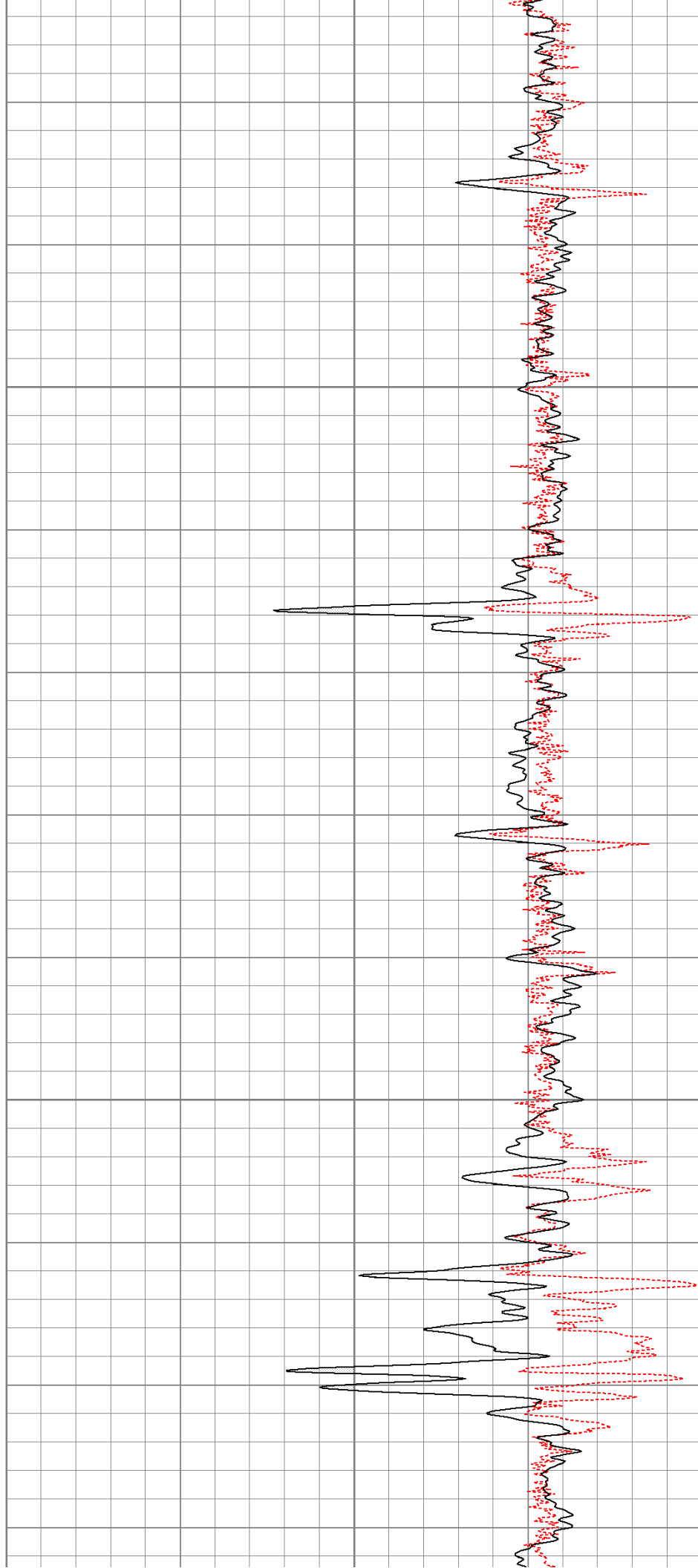
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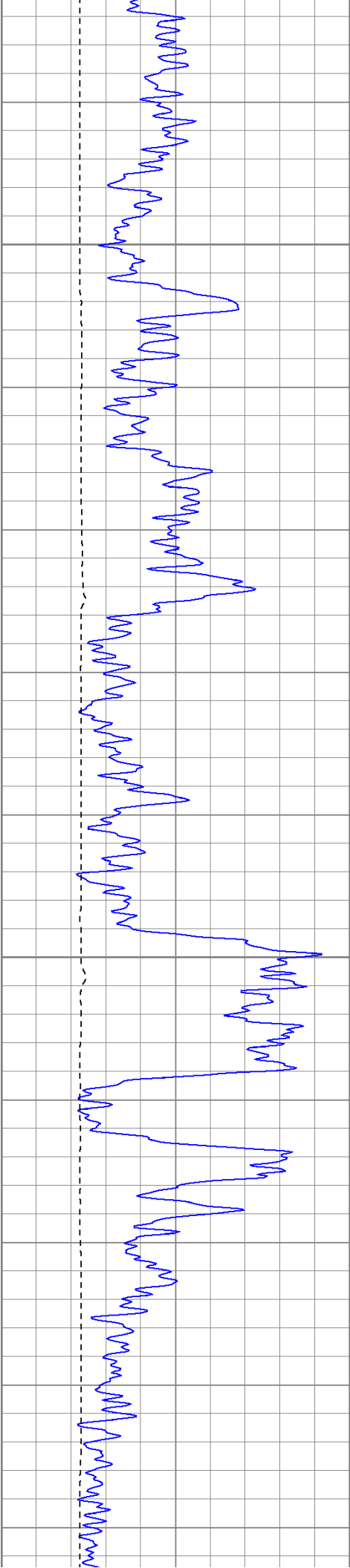




1100

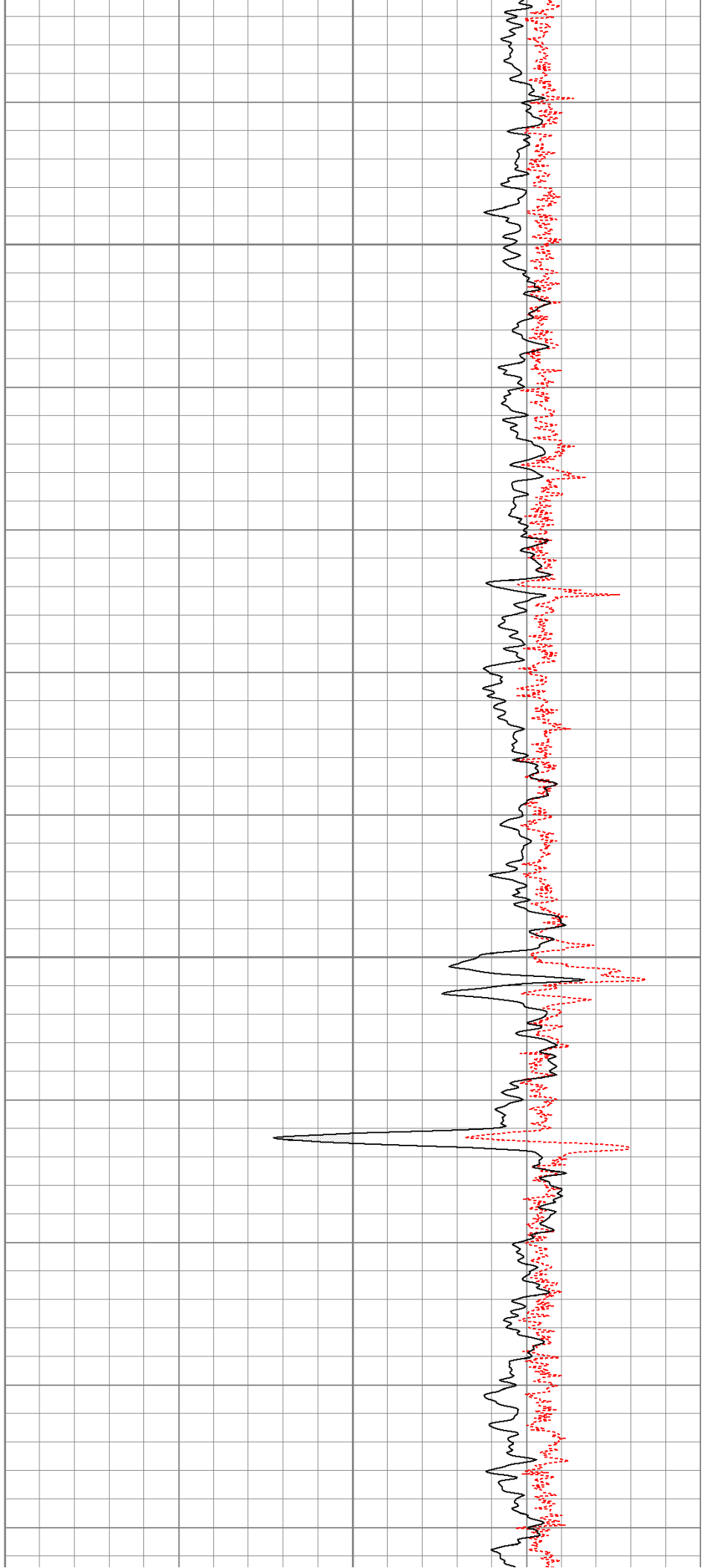
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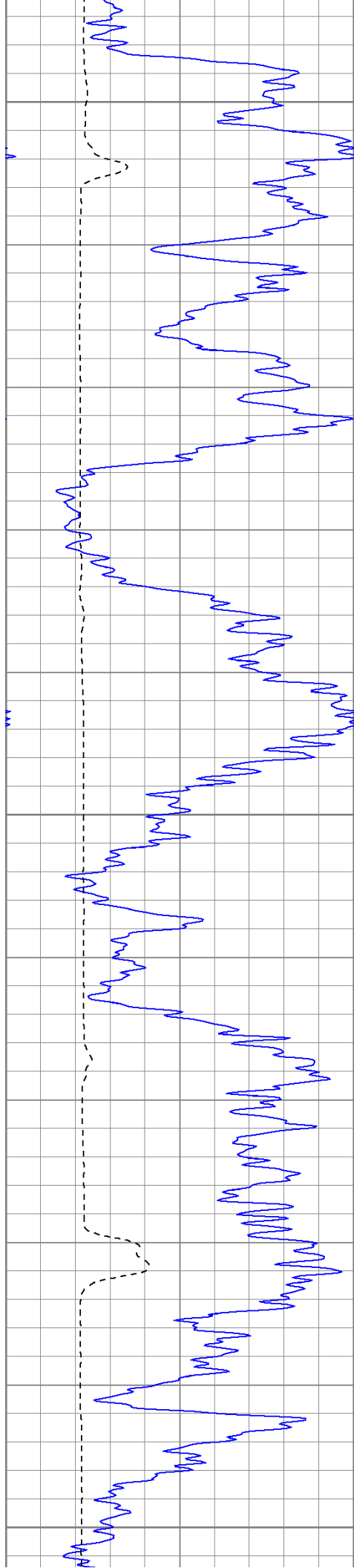




1200

1250

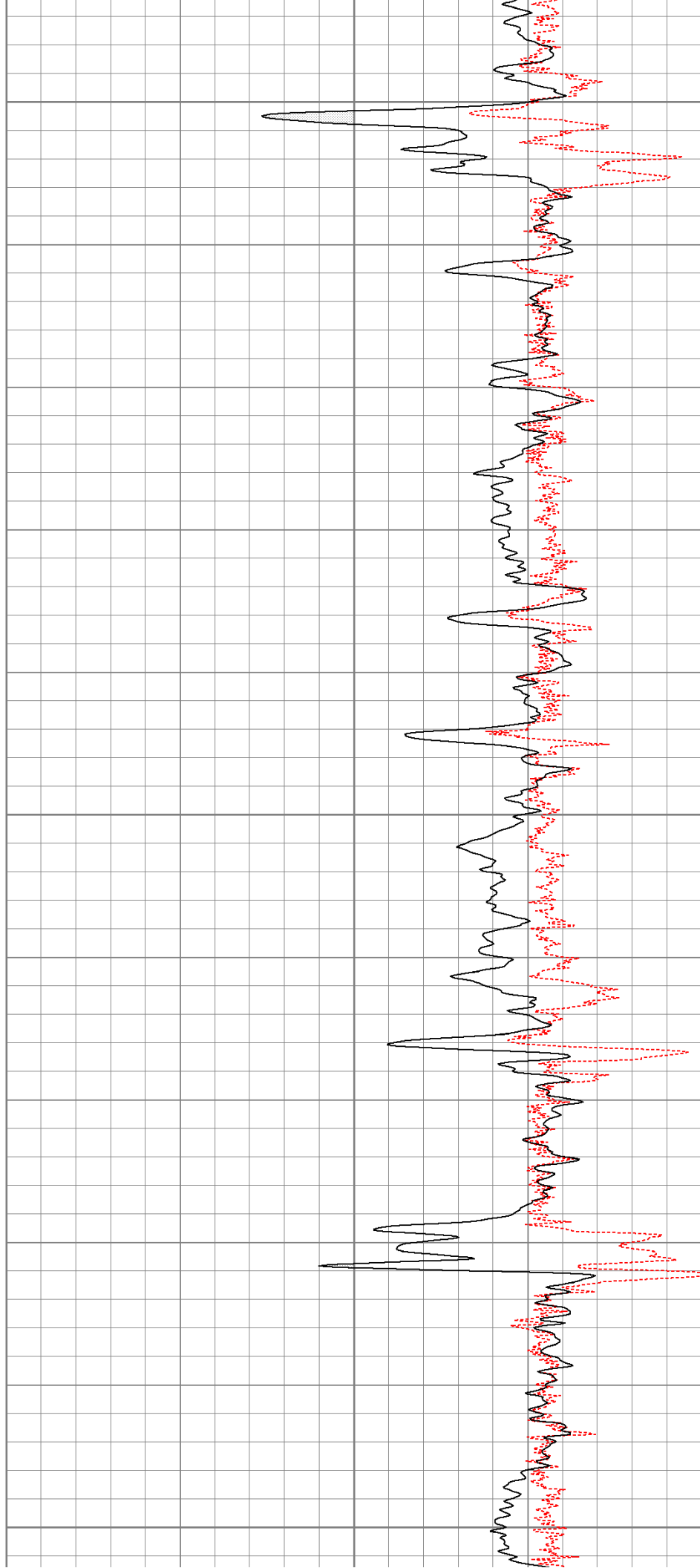


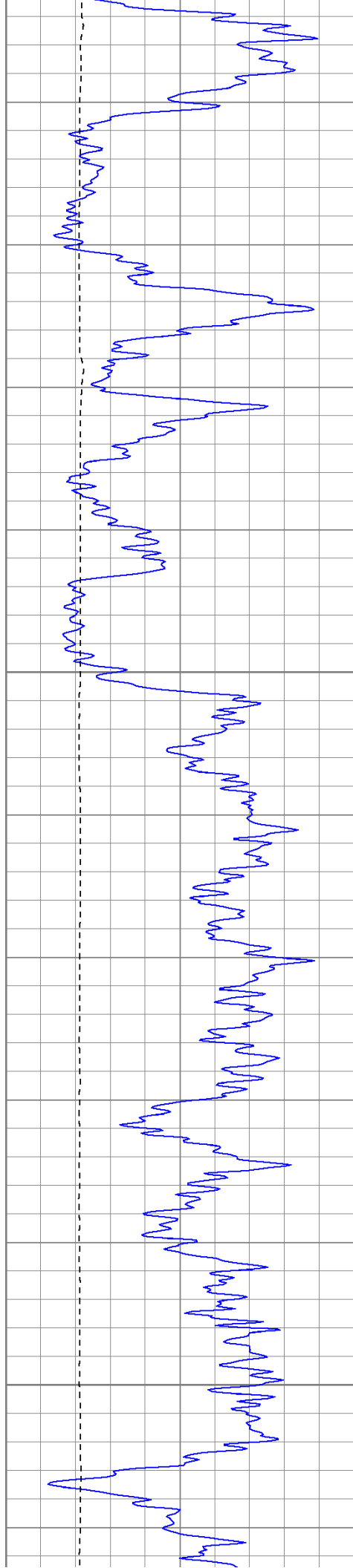


1300

1350

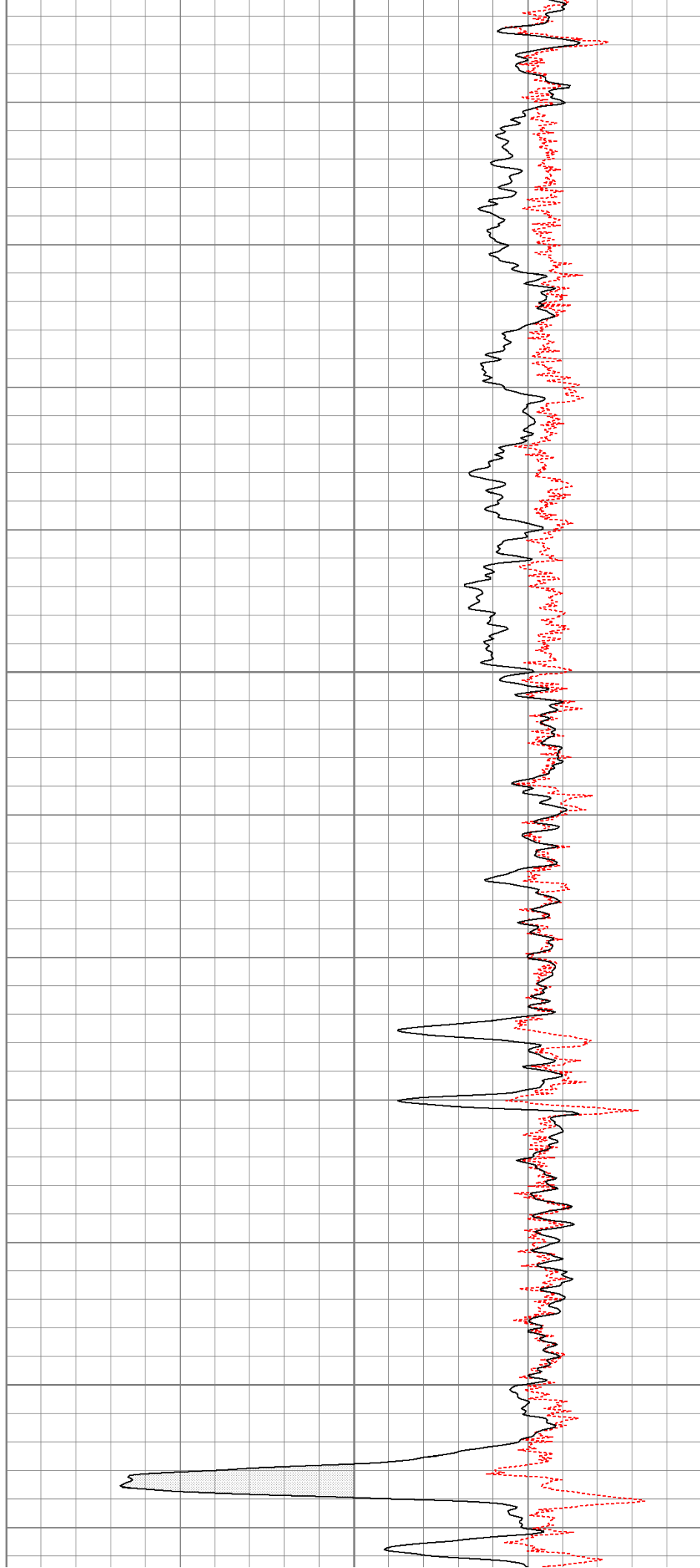
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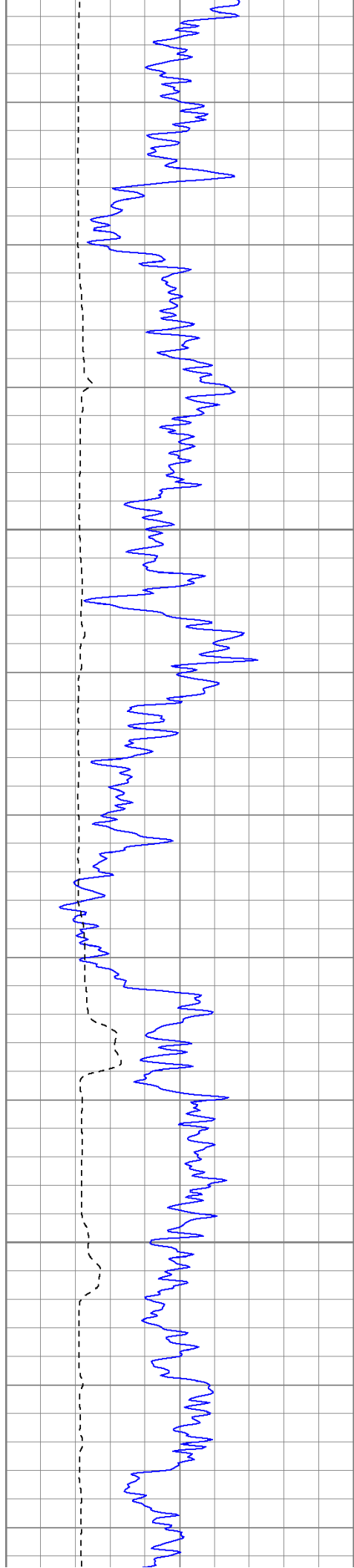




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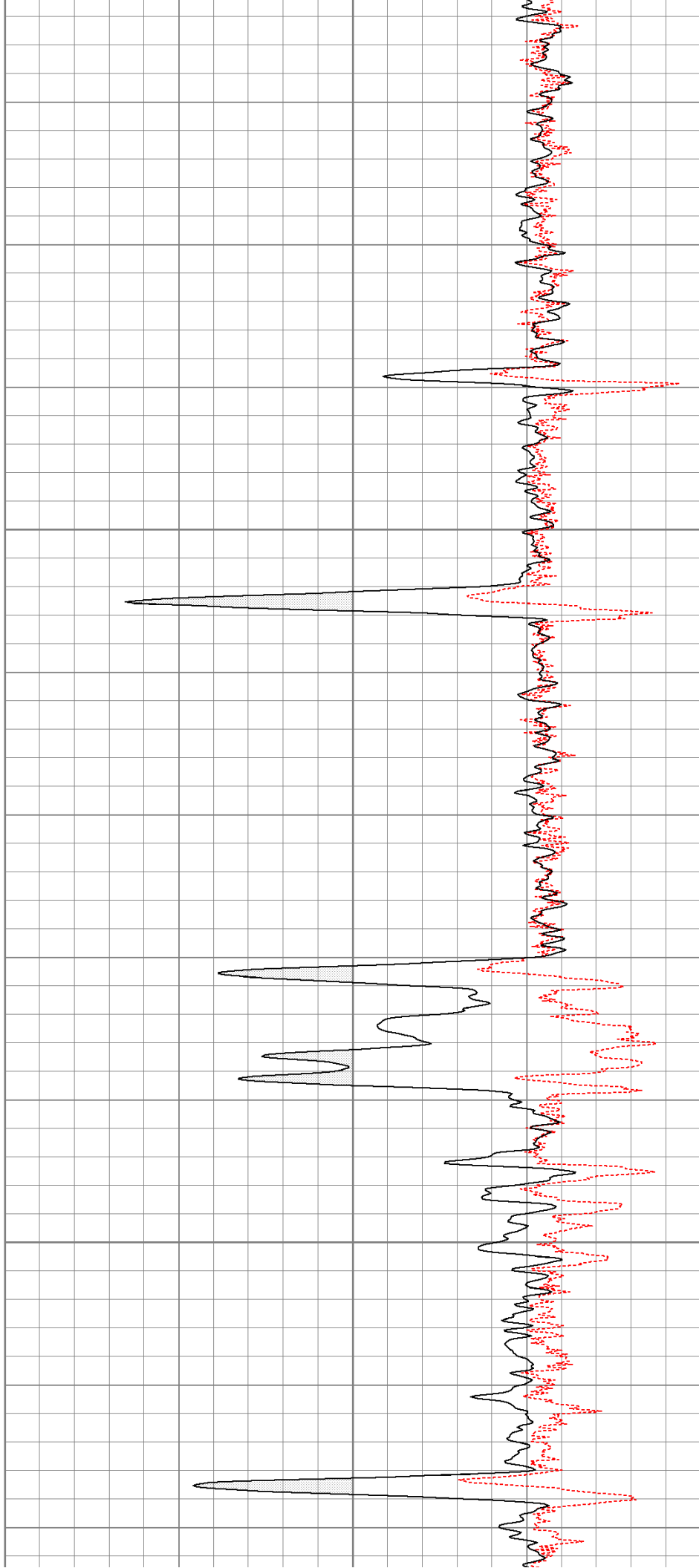
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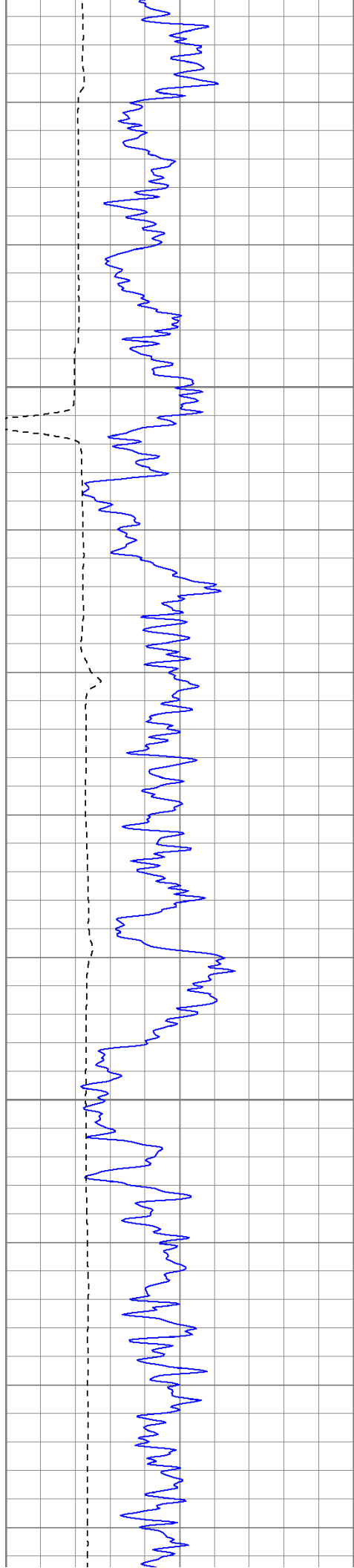




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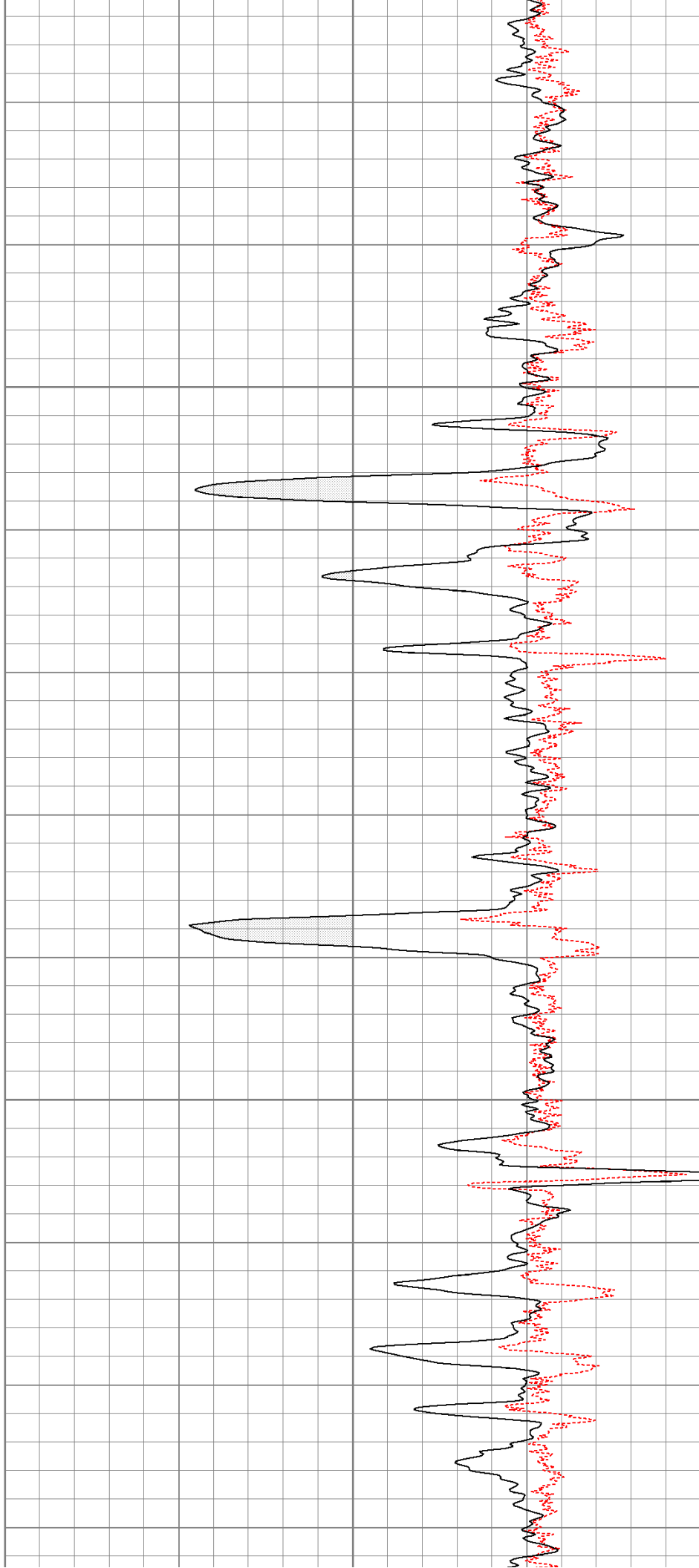
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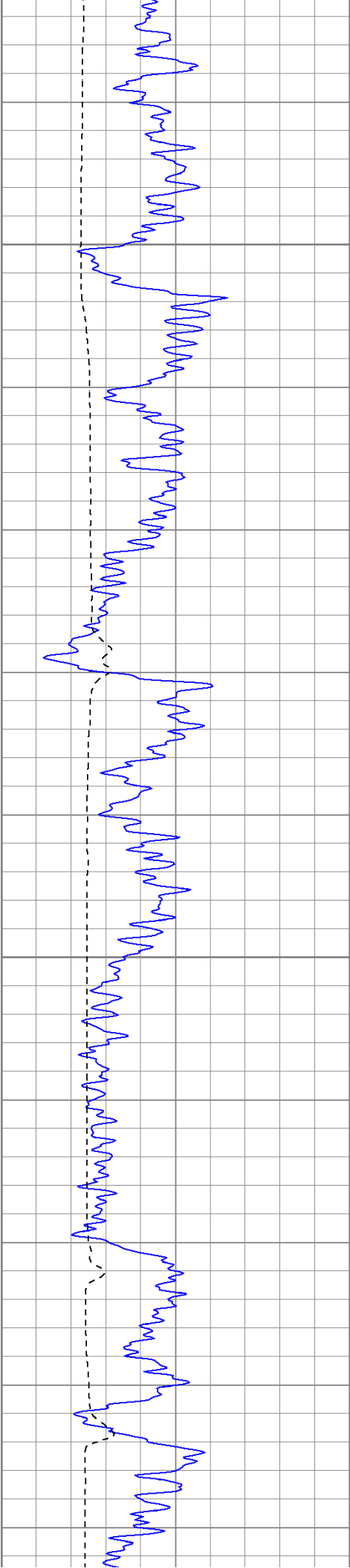




1650

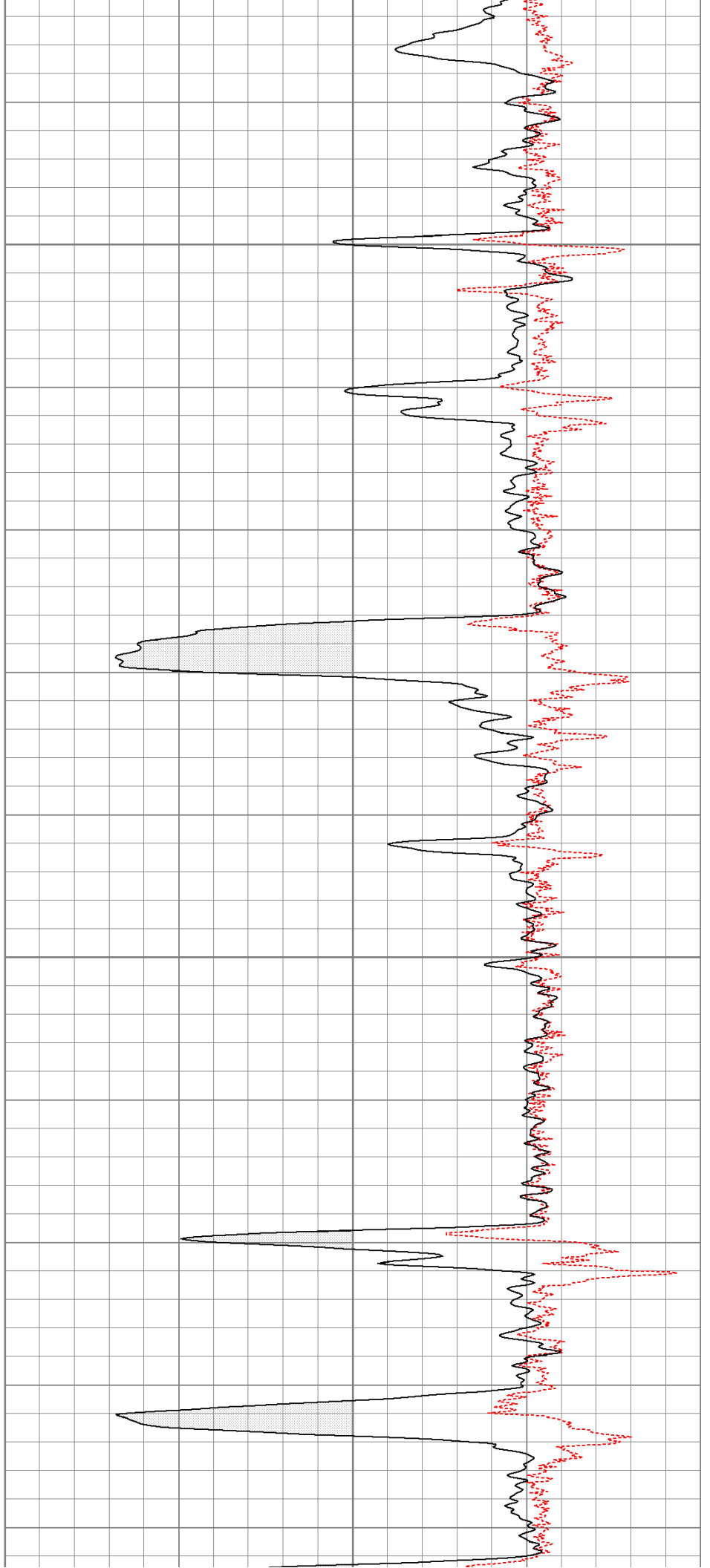
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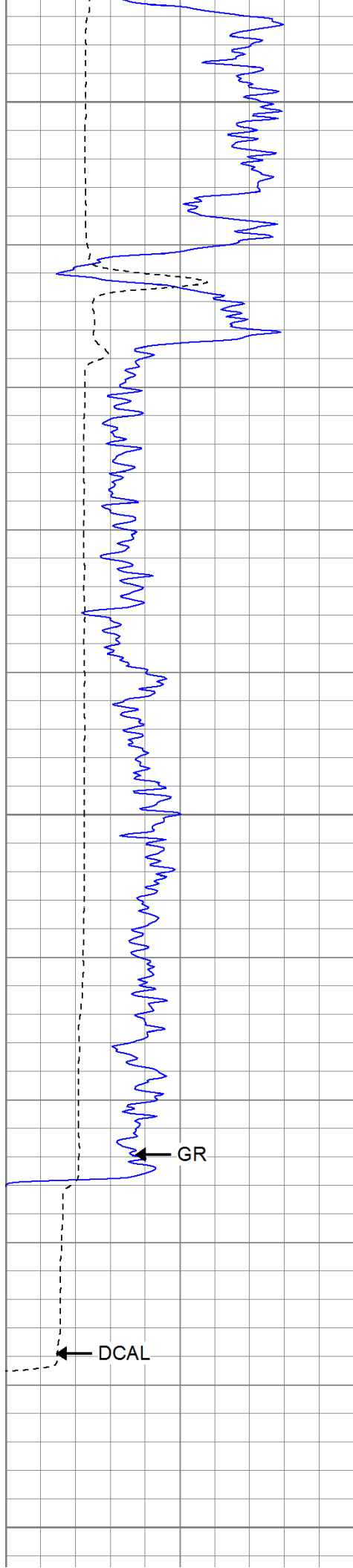




1750

1800

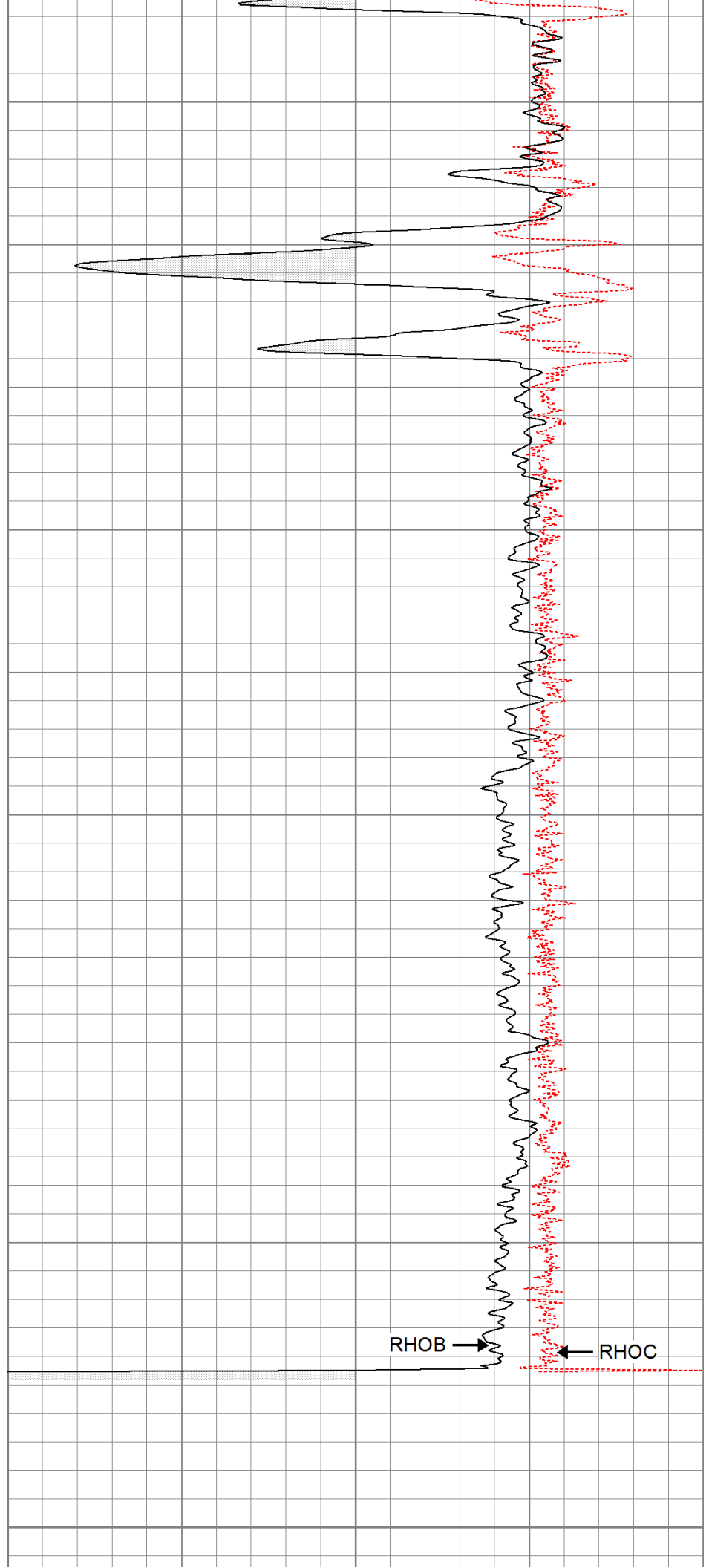




1850

1900

1950



RHOB

RHOC

0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16	-0.5	RHOC (g/cc)	0.5

Calibration Report					
Database File:	vallejo32-19.db				
Dataset Pathname:	pass1				
Dataset Creation:	Wed Oct 12 23:40:30 2011 by Log Open-Cased 110302				

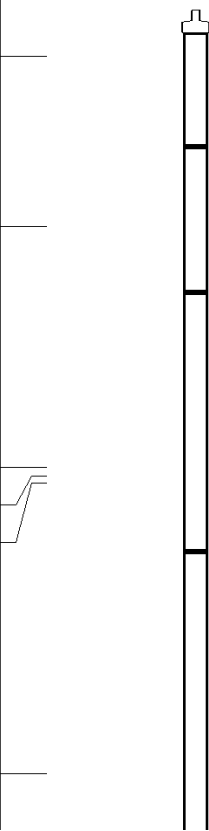
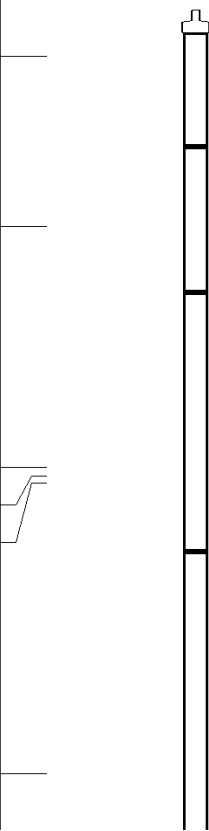
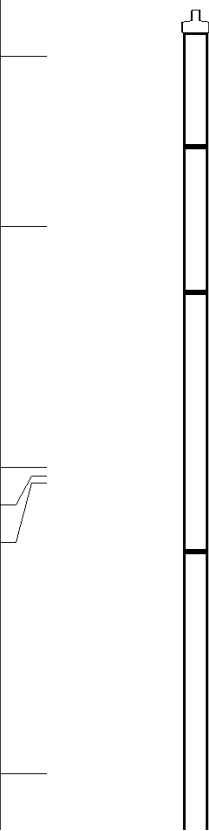
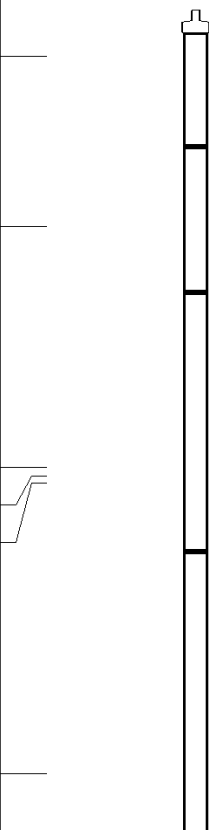
Induction Tool Calibration Report					
Serial Number:		701			
Tool Model:		Probe			
Downhole Cal Performed:		Wed Jun 08 22:14:25 2011			
Surface Cal Performed:		Wed Jun 08 22:14:40 2011			
After Survey Verification Performed:					
Surface Calibration:		Air	Loop		
Conductivity Reference:		0.000	500.000	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	

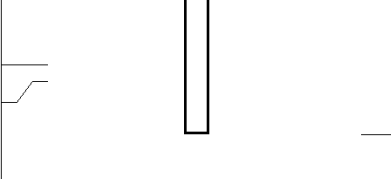
Compensated Density Calibration Report					
Serial-Model:		901-2.75POH			
Source / Verifier:		/			
Master Calibration Performed:		Mon Oct 10 09:20:39 2011			
Before Survey Verification Performed:					
After Survey Verification Performed:					

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	8.00	in	2.50	V	
Large Ring	16.00	in	4.57	V	

Before Survey Verification					
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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	

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	16.21		CDL-2.75POH (901) Probe	8.43	2.75	106.00				
DCAL	15.94									
SSD	15.69									
DIC	6.24		IEL-Probe (701)	13.46	2.75	93.00				

SP SN	2.25 1.71				
Dataset: vallejo32-19.db: field/well/run1/pass1 Total Length: 31.11 ft Total Weight: 305.00 lb O.D. 2.75 in					