



SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 29-07
Field Purgatoire River
County Las Animas State Colorado

Location: API #: 05 071 09361 00
1878' FNL & 2367' FEL
SEC 29 TWP 33S RGE 67W
Permanent Datum Ground Level Elevation 7185'
Log Measured From Ground Level
Drilling Measured From Ground Level
Other Services
DIL
Elevation
K.B. -----
D.F. -----
G.L. 7185'

Date	1-20-08		
Run Number	One		
Depth Driller	1910'		
Depth Logger	1914'		
Bottom Logged Interval	1891'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 451'		
Casing Logger	451'		
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	5:00 P.M.		
Time Logger on Bottom	7:20 P.M.		
Maximum Recorded Temperature	120 DEG F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	J. Cappellucci		
Witnessed By	Mr. Don Johnson		

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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

Neutron Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Well Directions:
Hwy 12 , second entrance to Bosque, across tracks, first left to location.

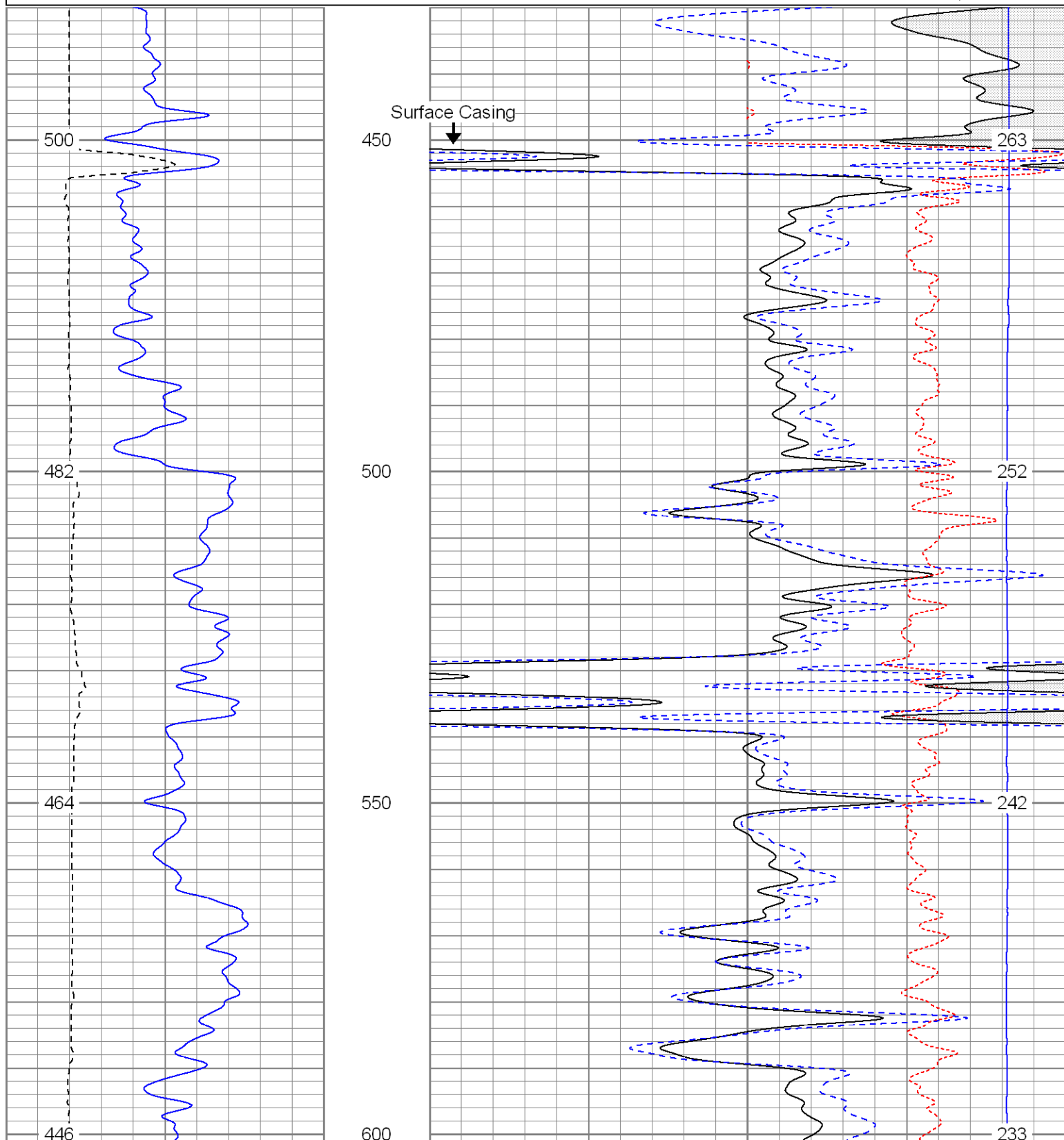


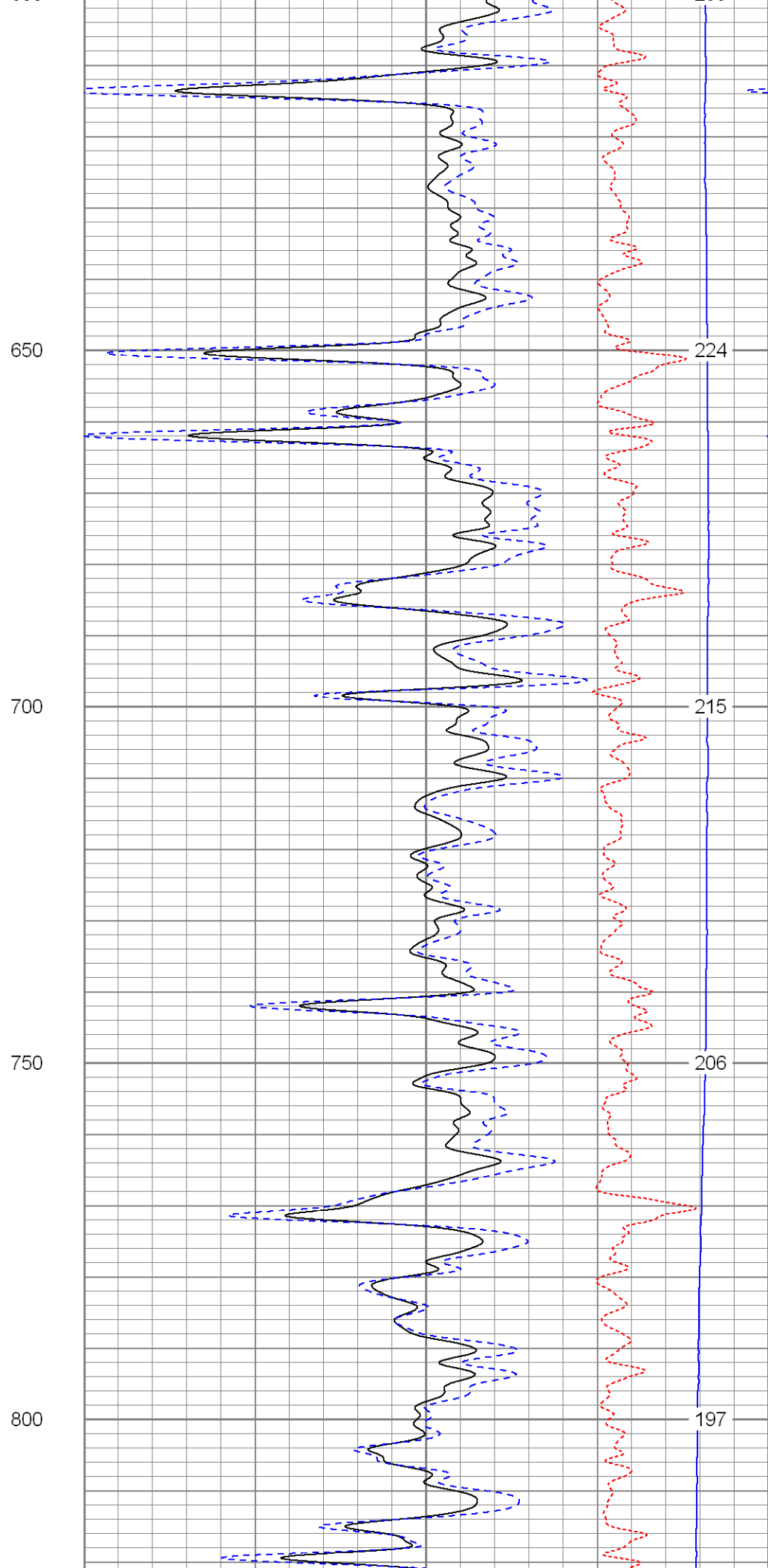
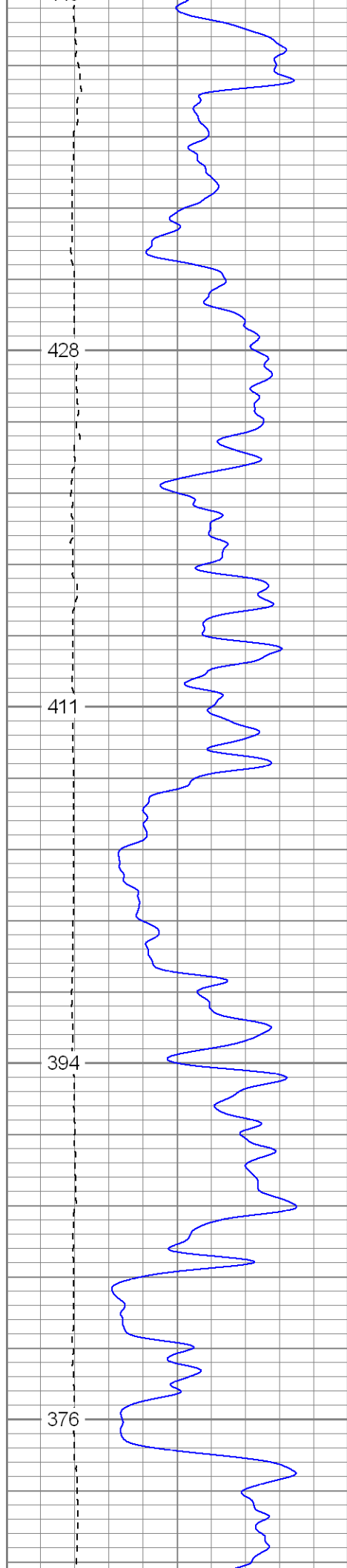
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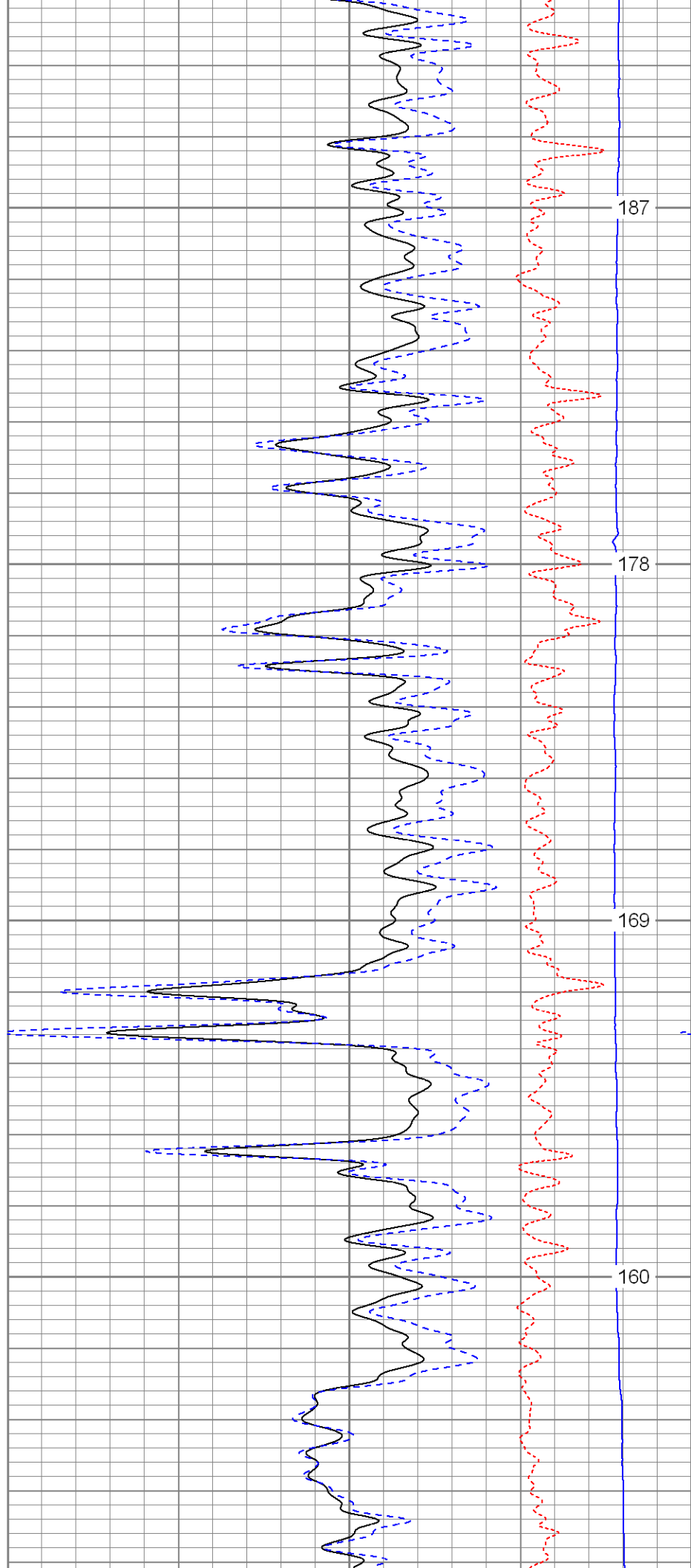
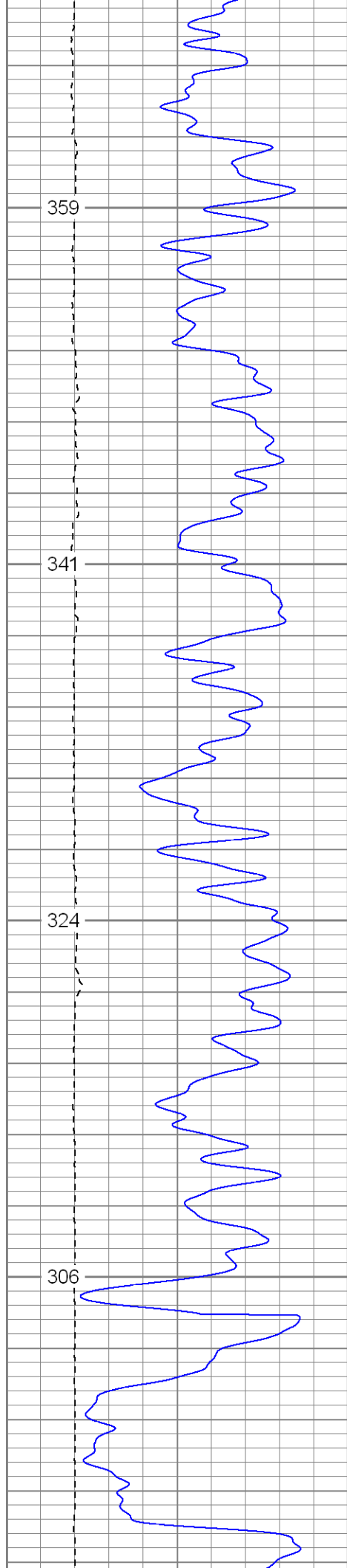
Main Pass

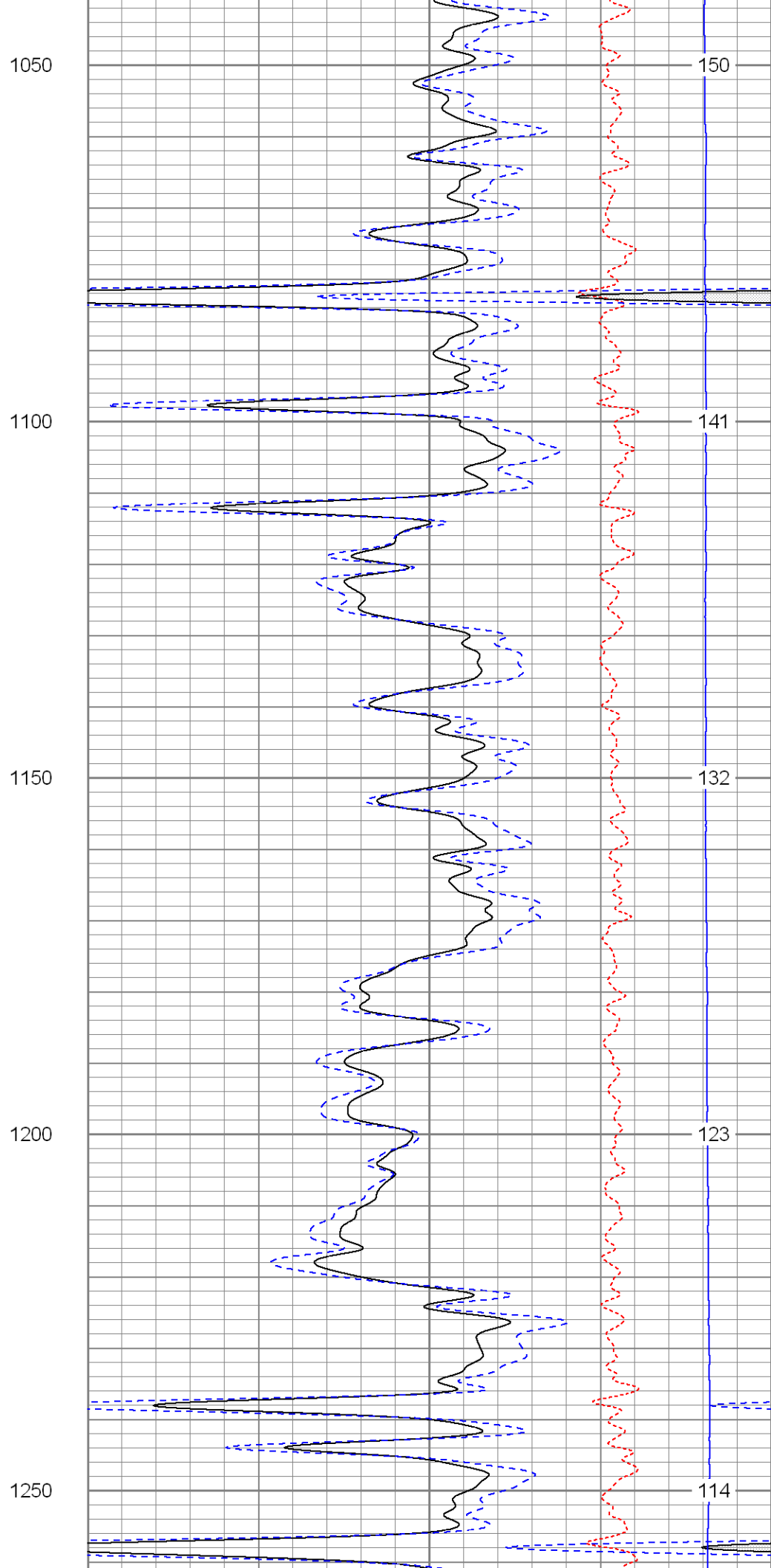
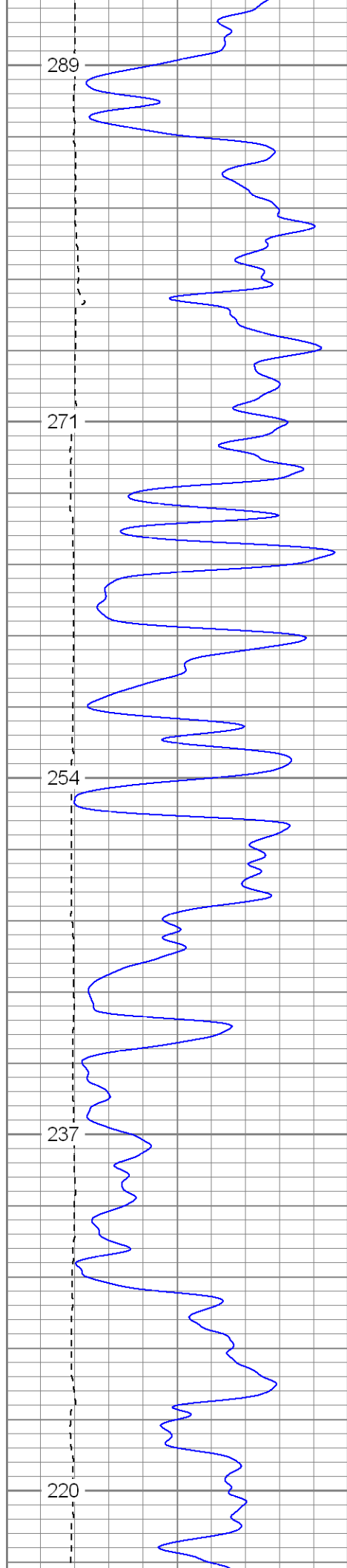
Database File: xtoge2907.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Sun Jan 20 21:03:30 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

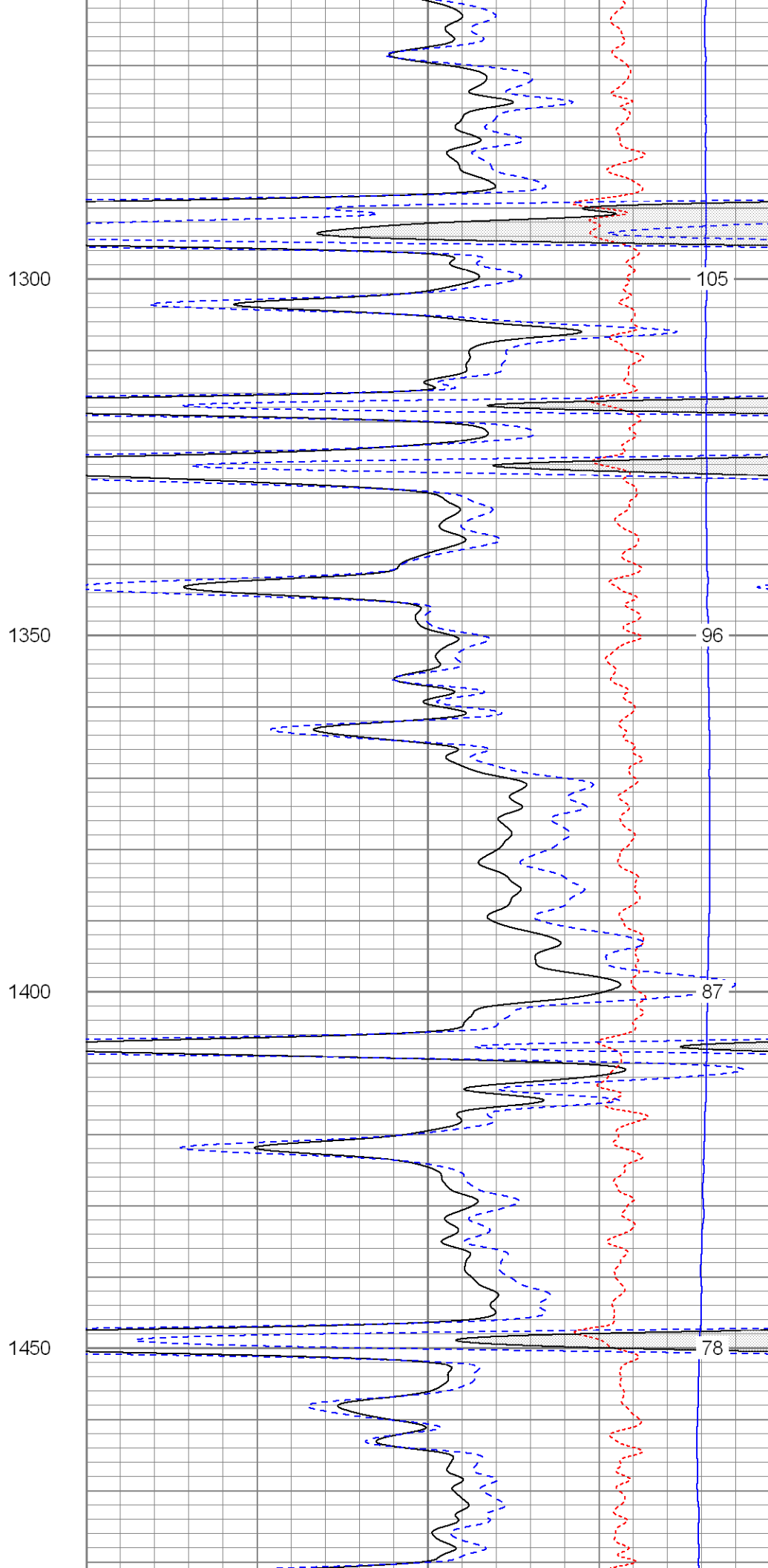
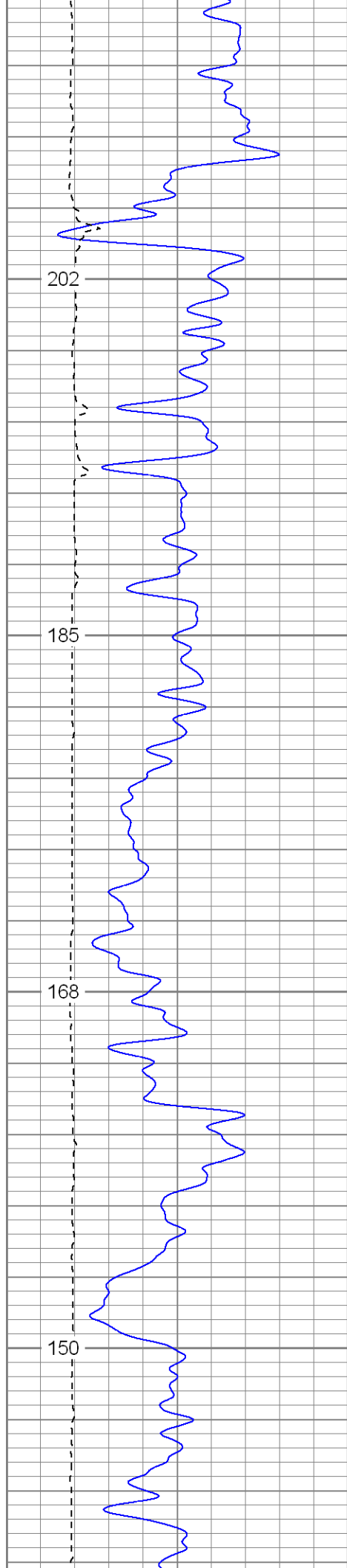
0	GR (GAPI)	200	2	RHOB (g/cc)	3
6	DCAL (in)	16	1	RHOB (g/cc)	2
TBHV (ft3)			30	DPOR (pu)	-10
			-0.5 RHOC (g/cc) 0.5		
			4000 LTEN (lb) 0		
			ABHV (ft3)		

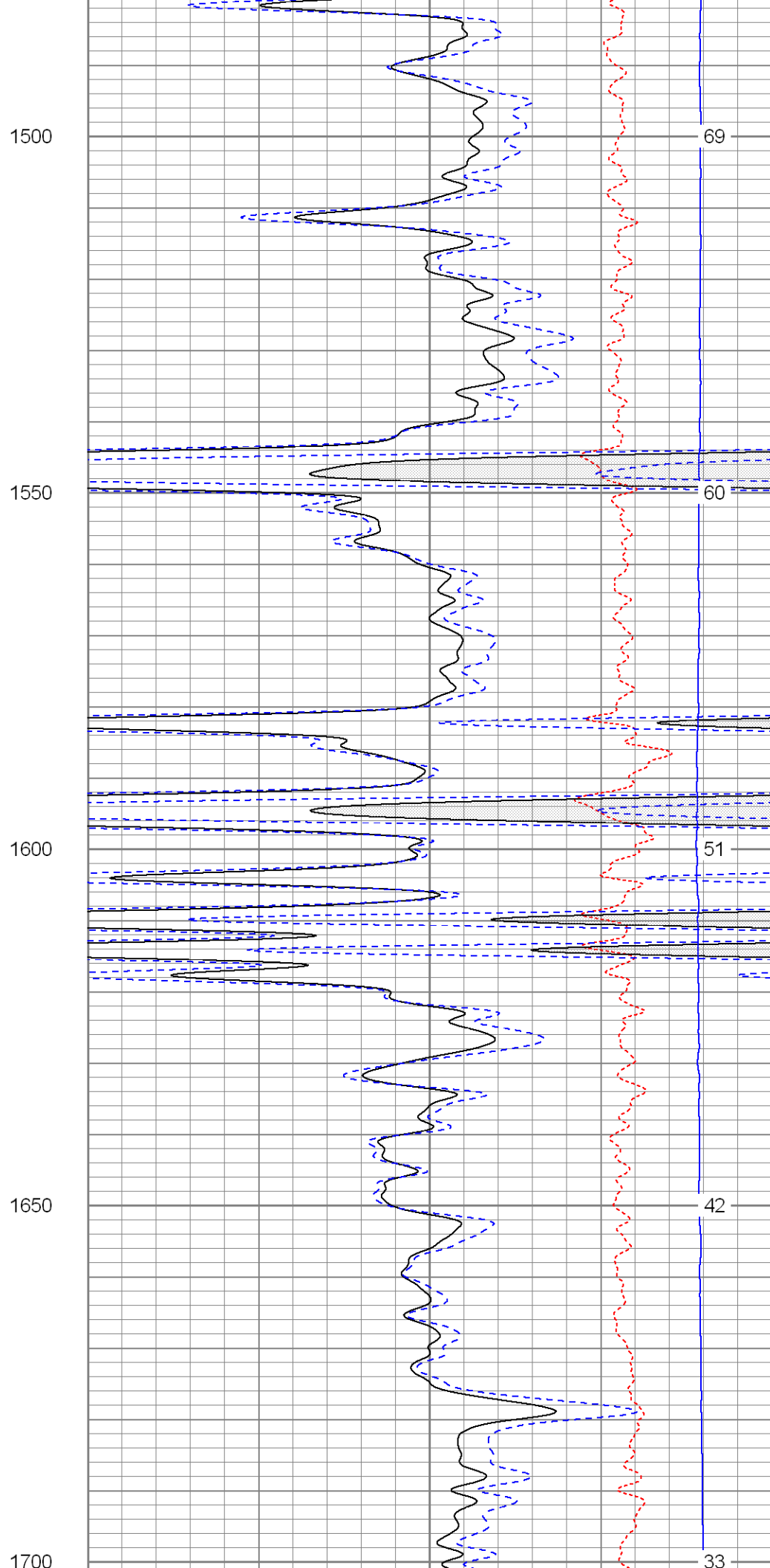
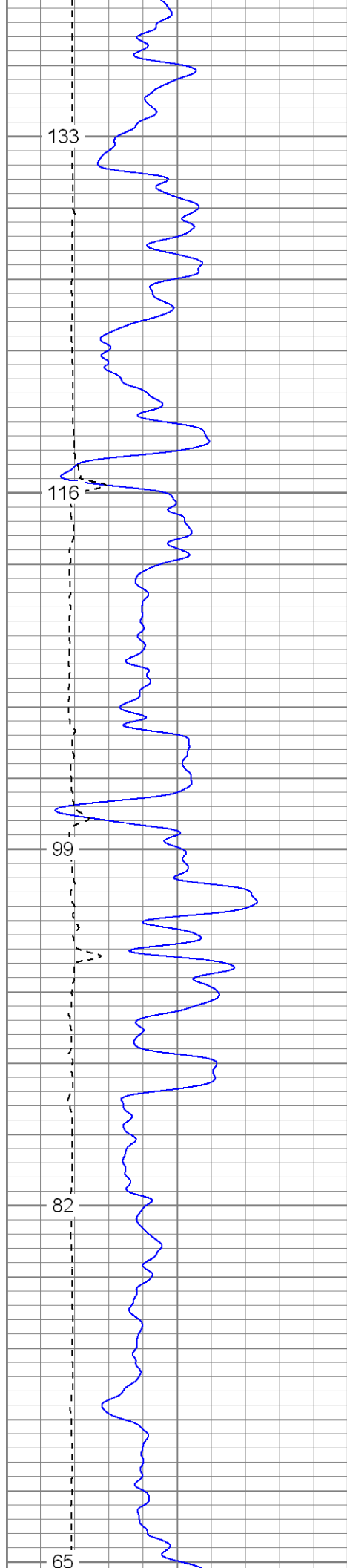


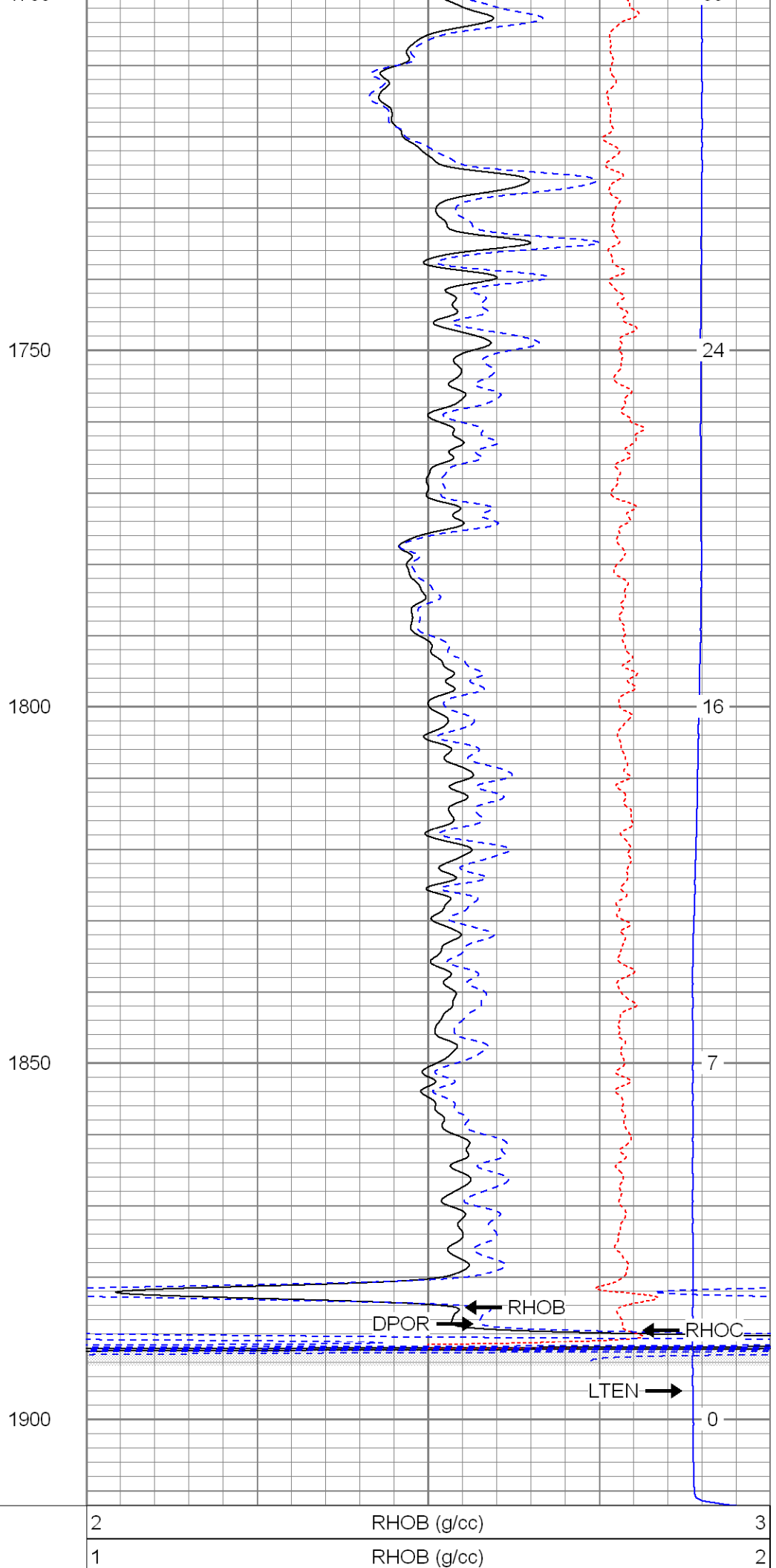
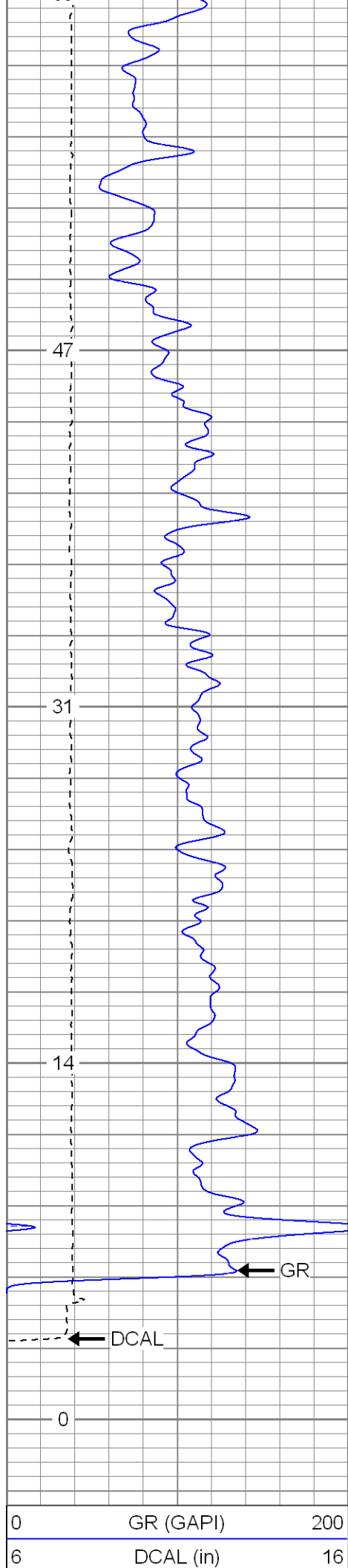












TBHV (ft3)

30

DPOR (pu)

-10

-0.5

RHOC (g/cc)

0.5

4000

LTEN (lb)

0

ABHV (ft3)



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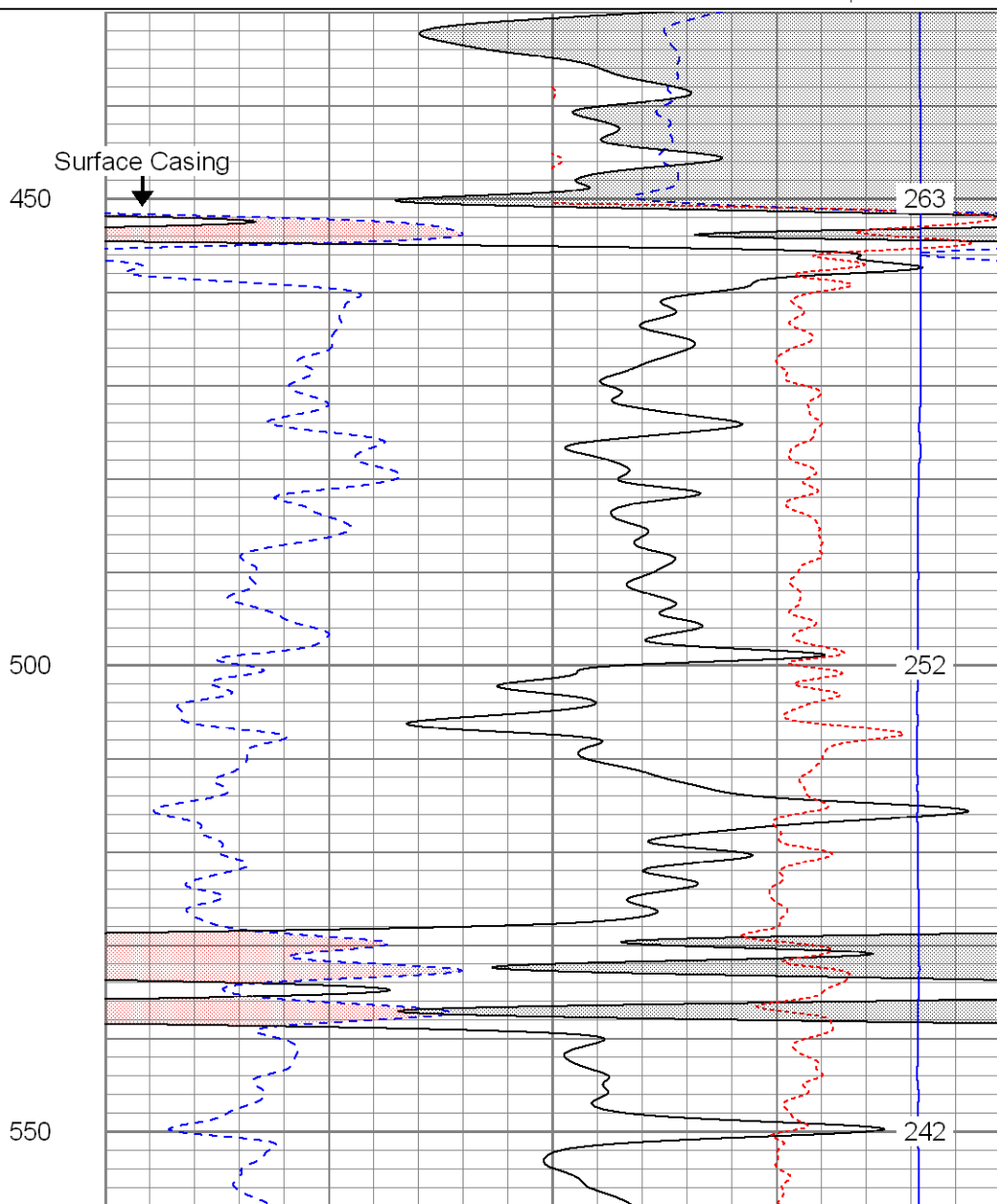
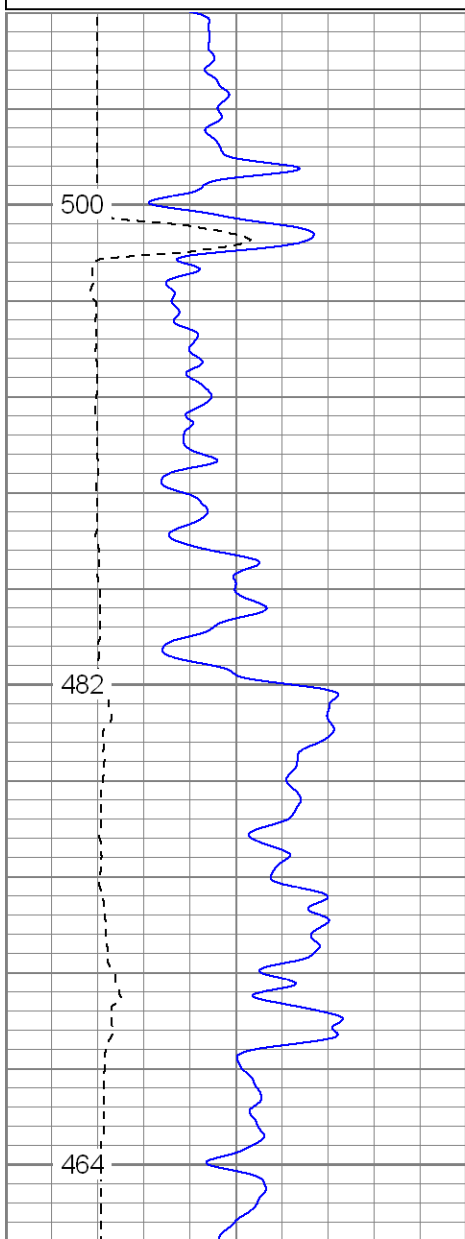
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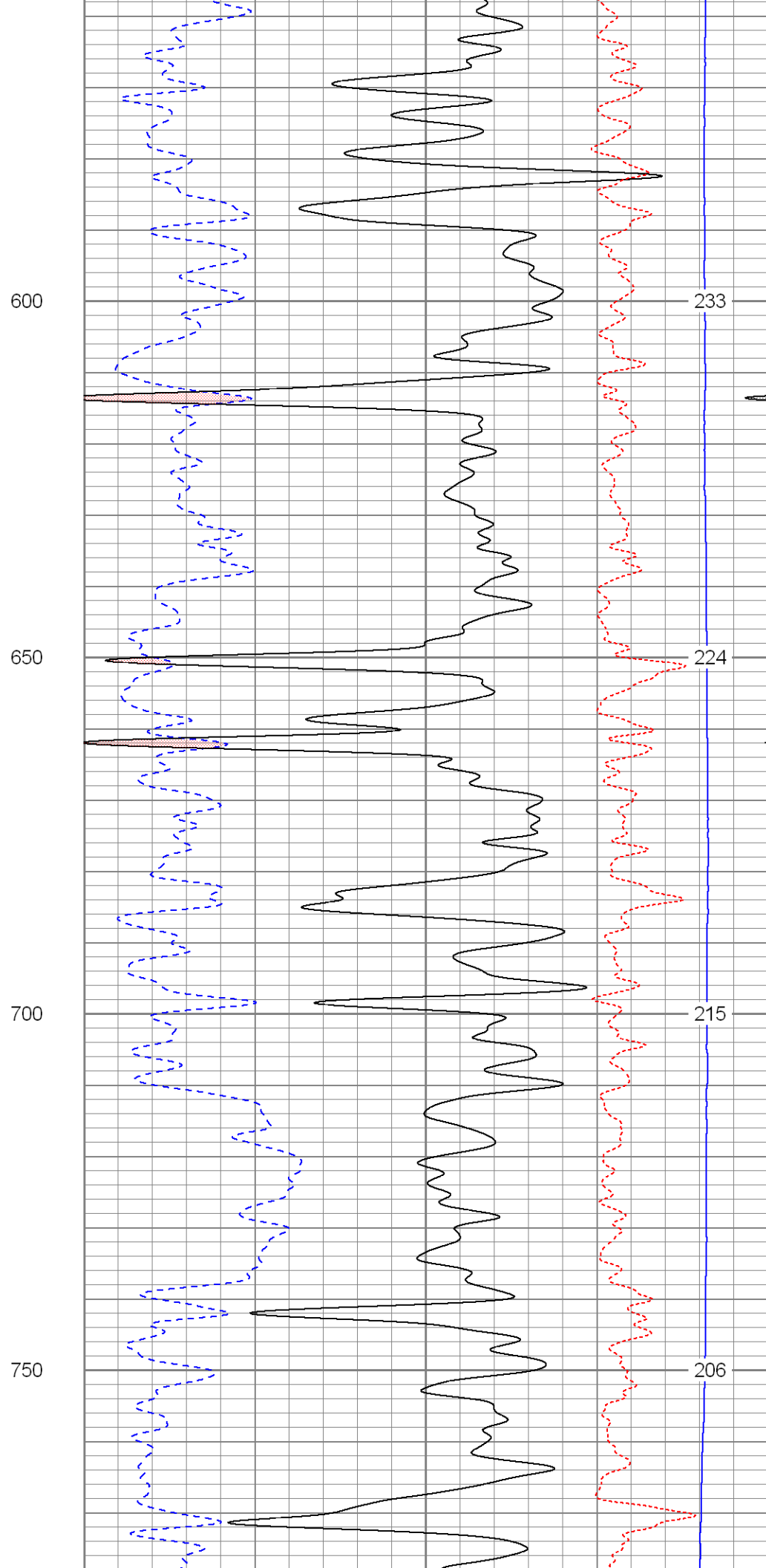
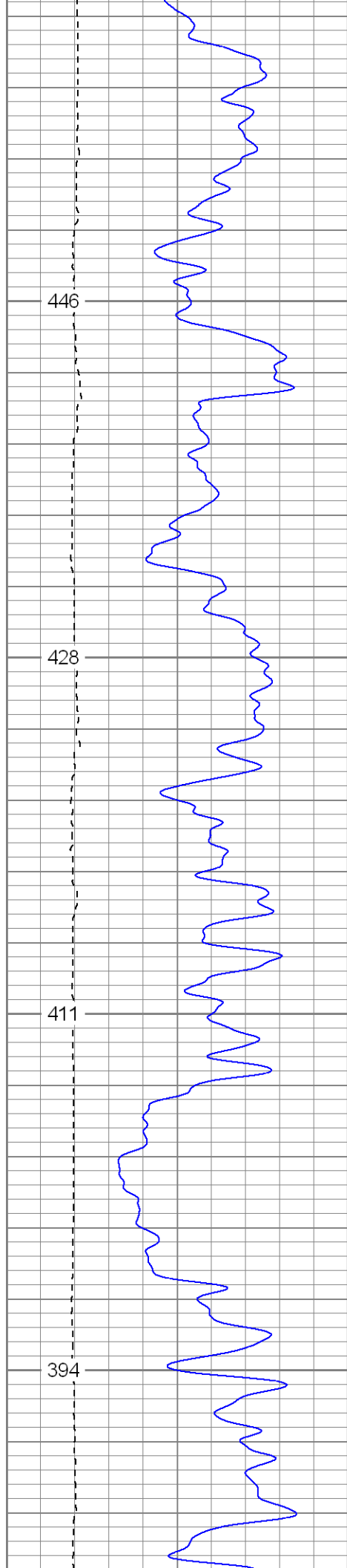
Main Pass

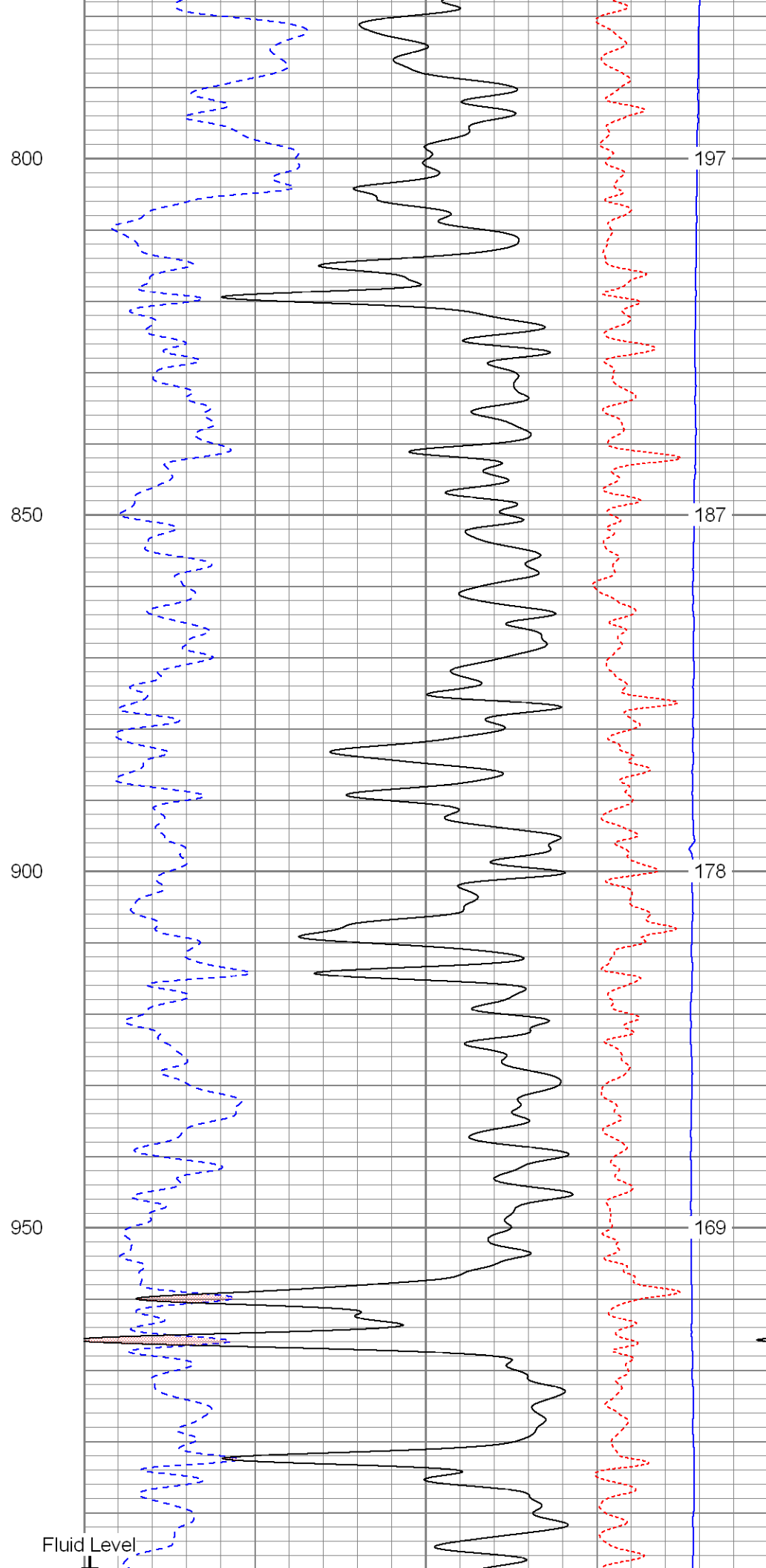
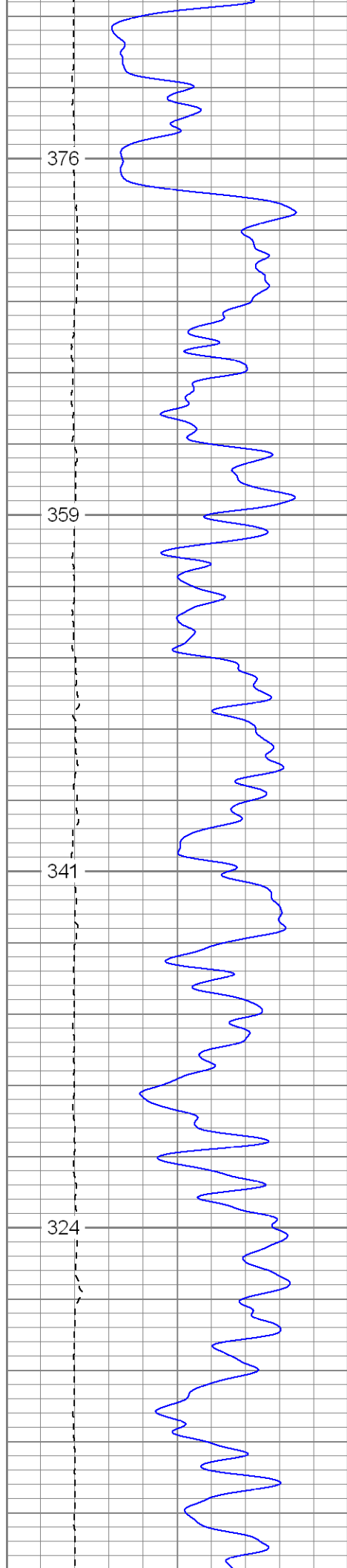
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Charted by: Depth in Feet scaled 1:240

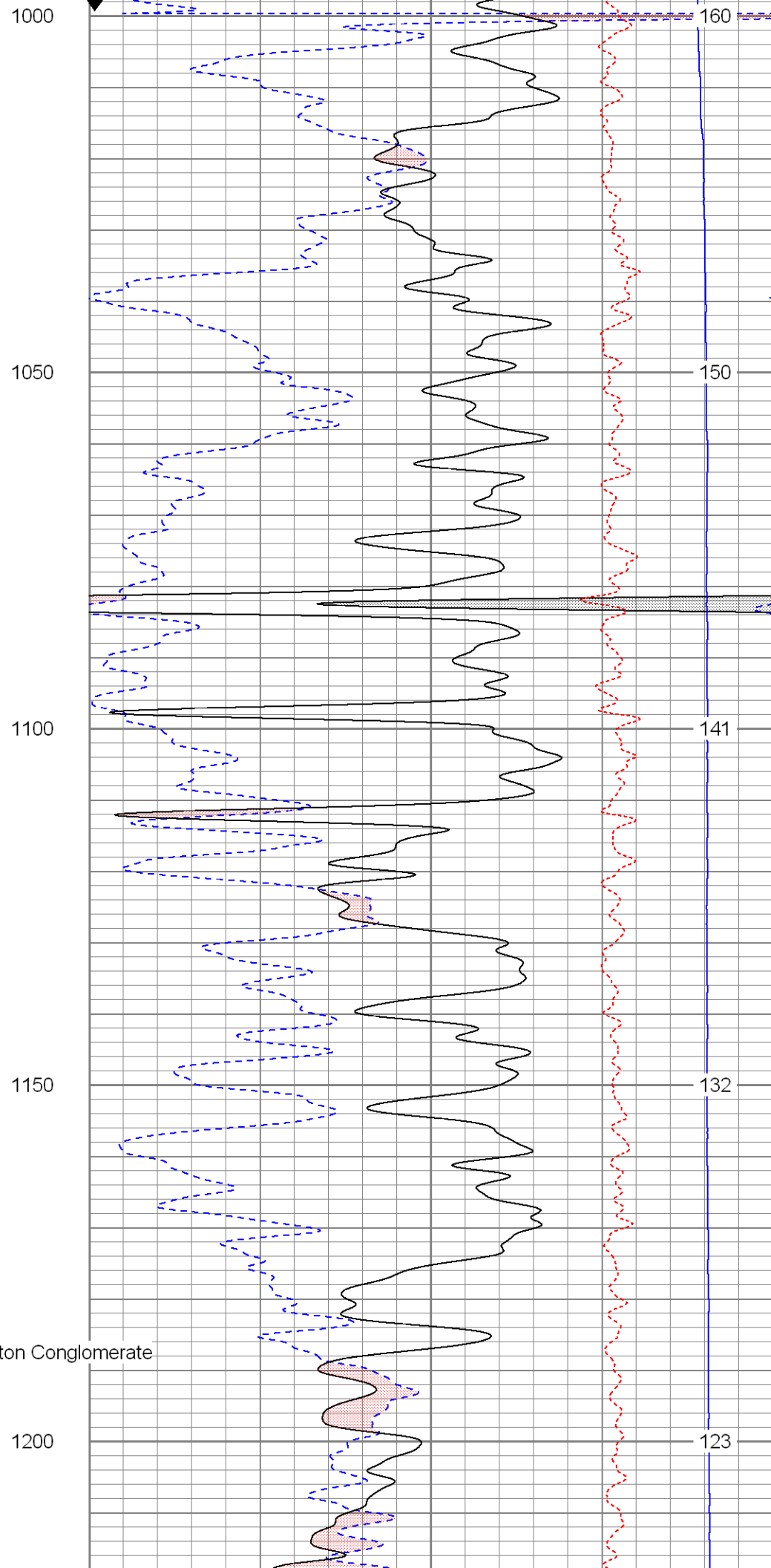
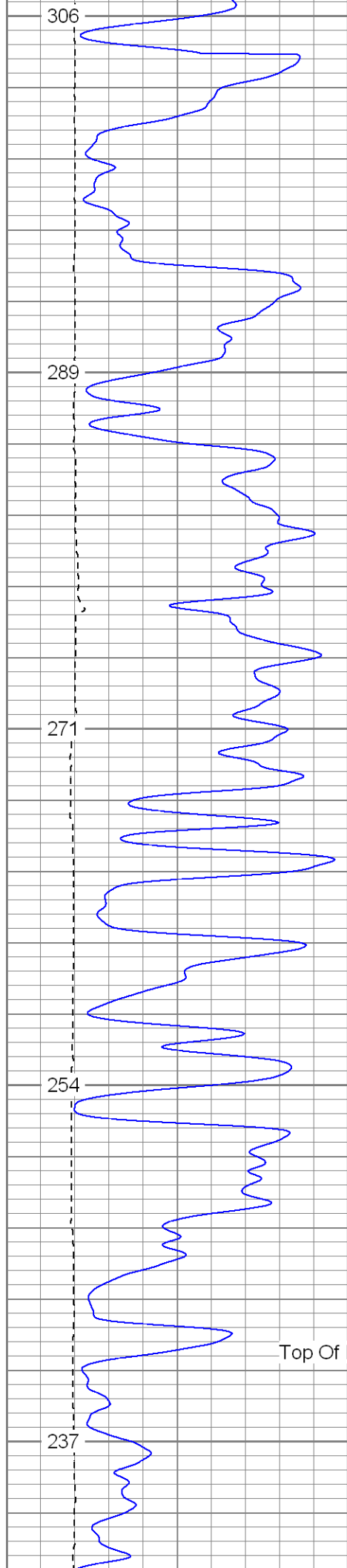
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		









Top Of Vermejo

220

202

185

168

1250

1300

1350

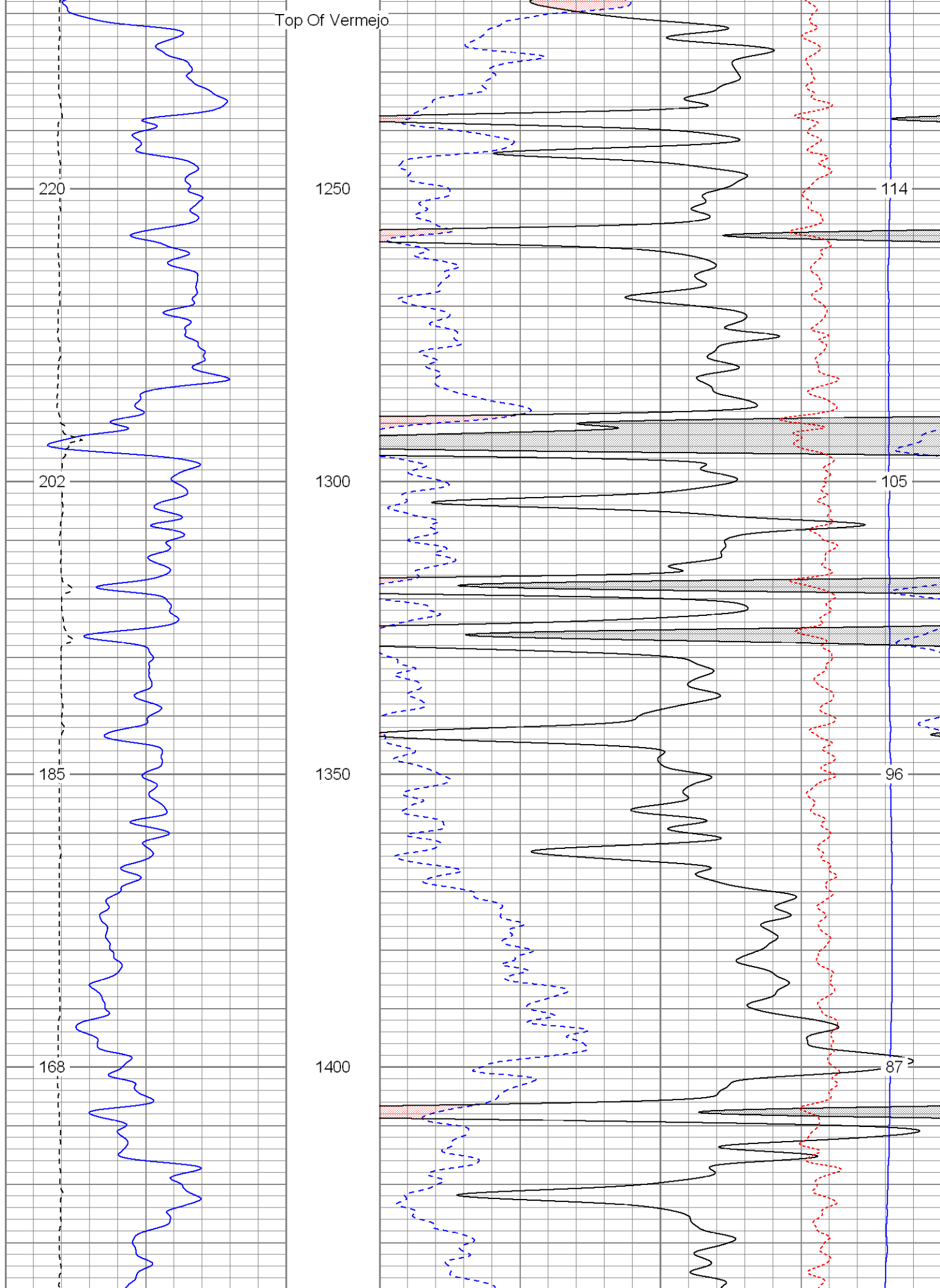
1400

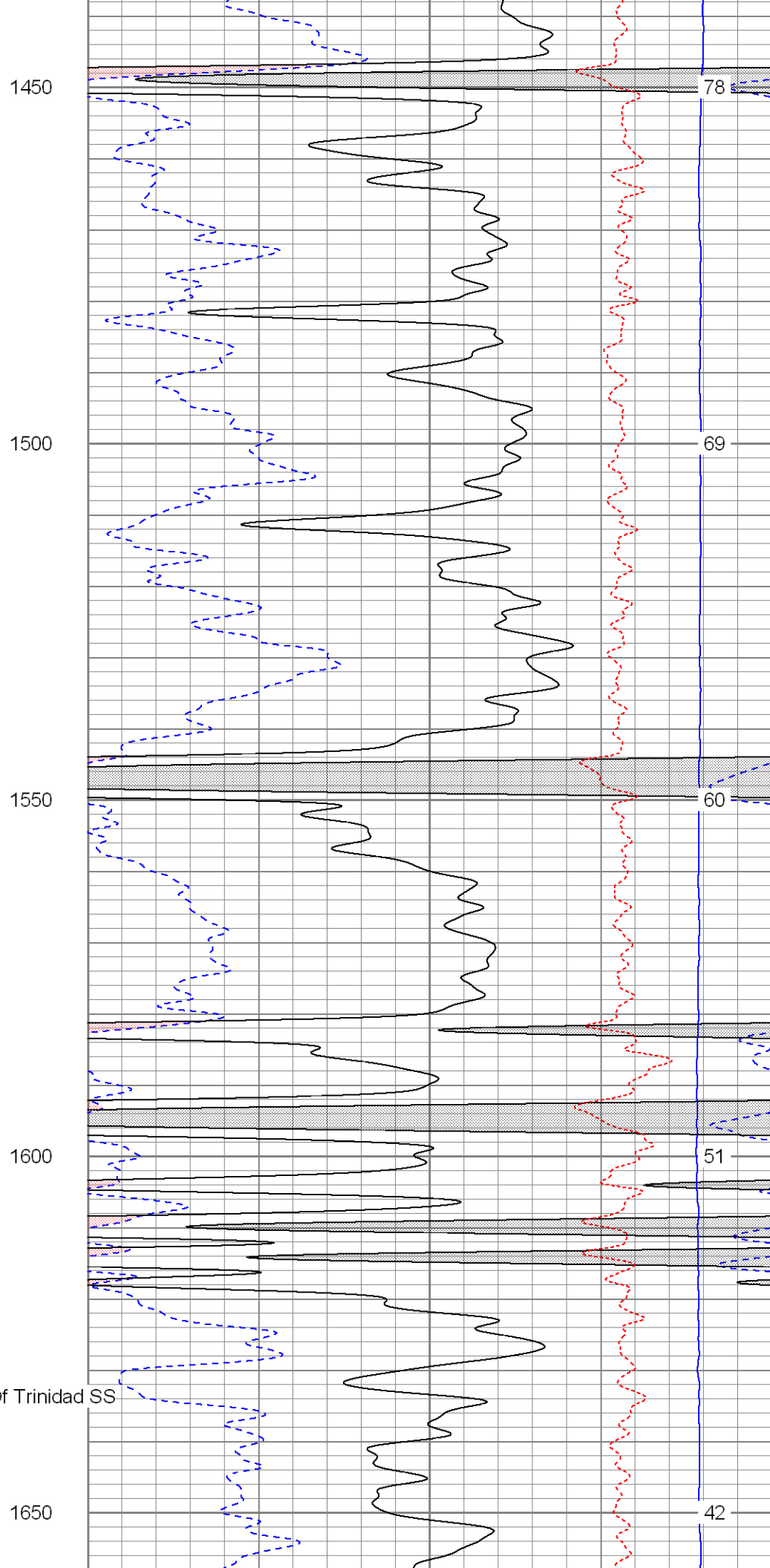
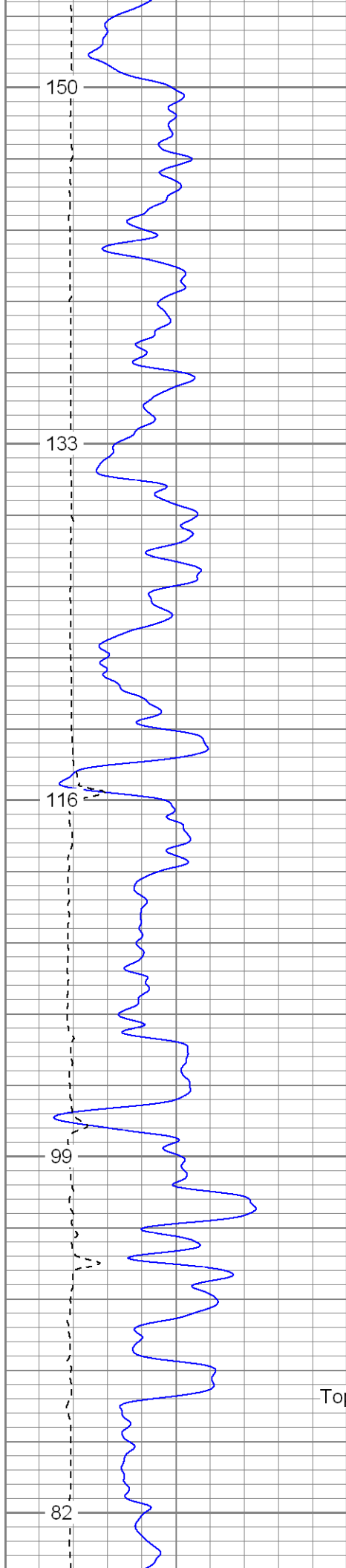
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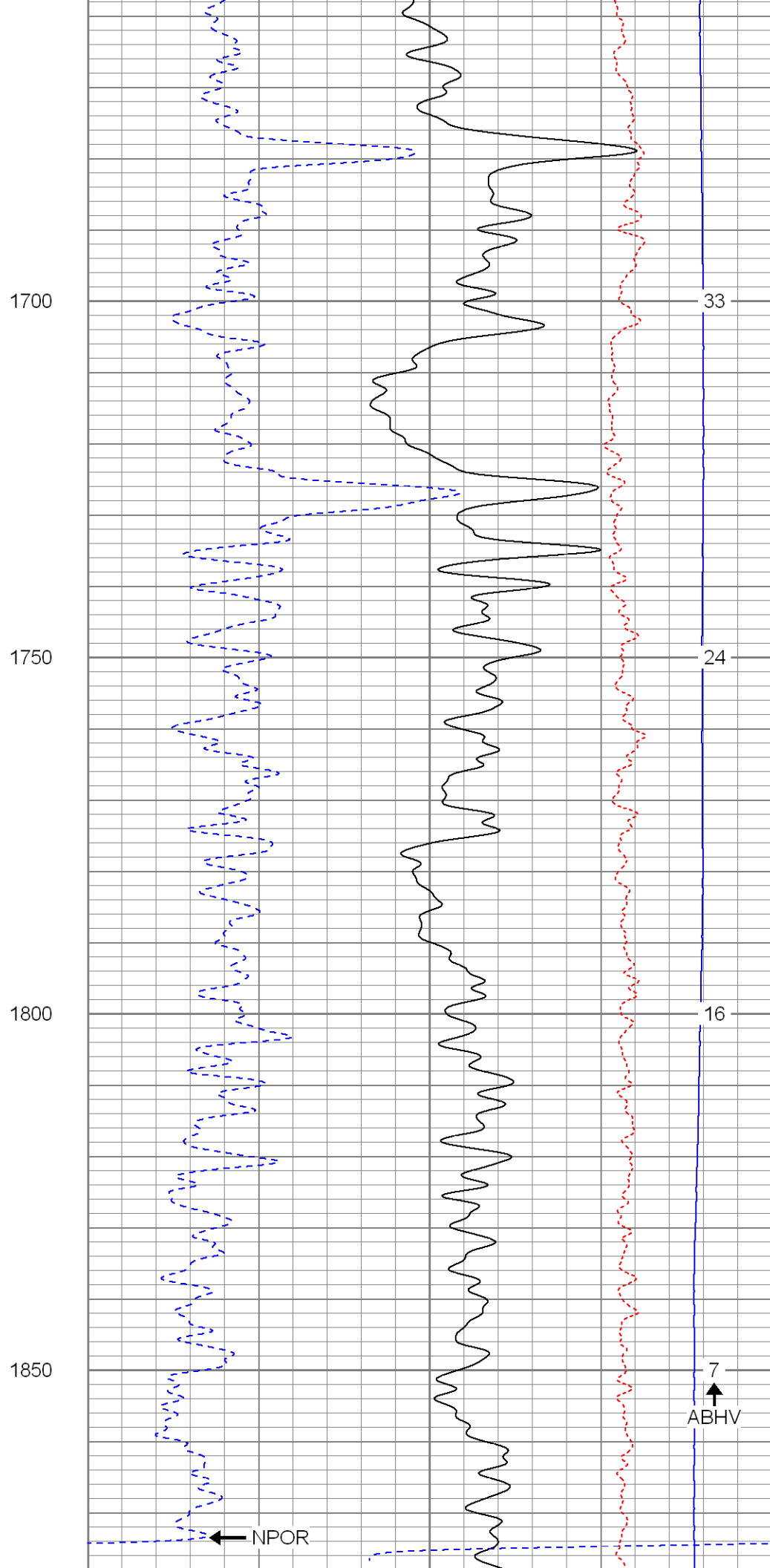
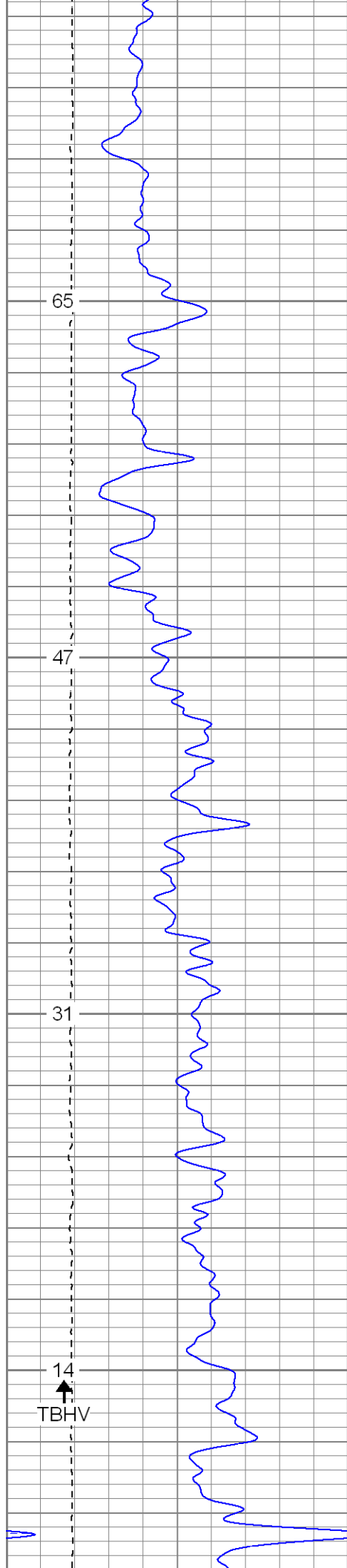
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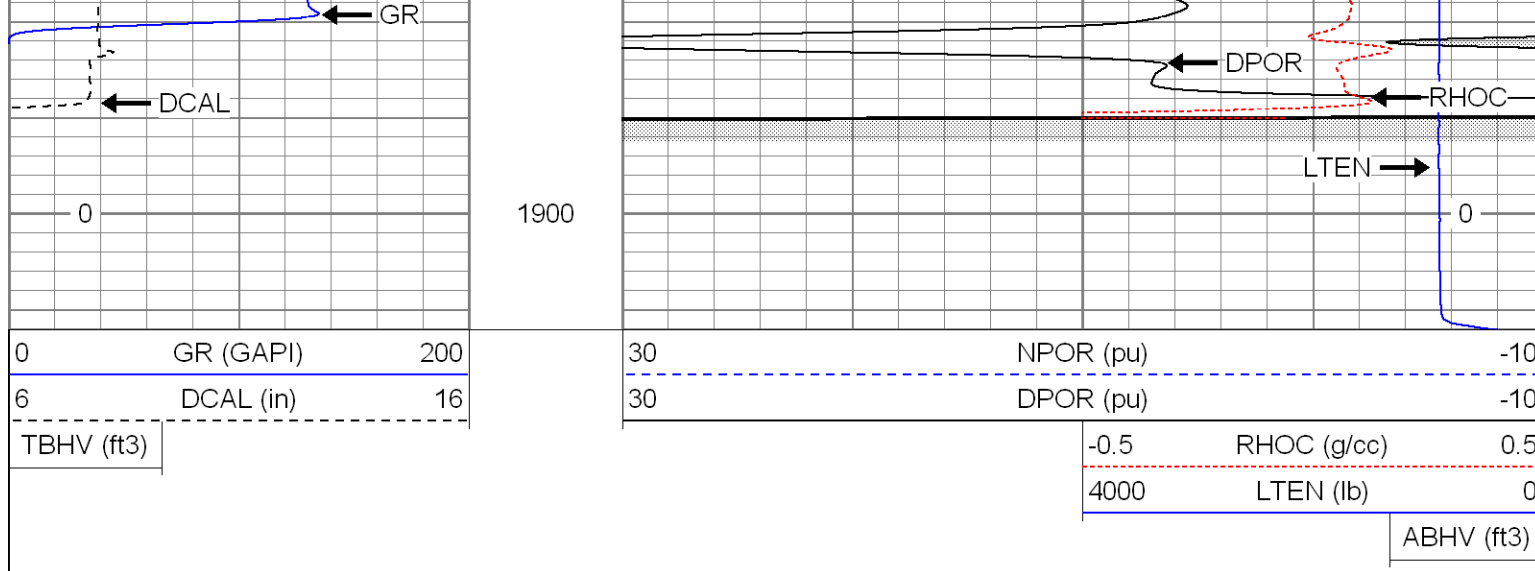
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87







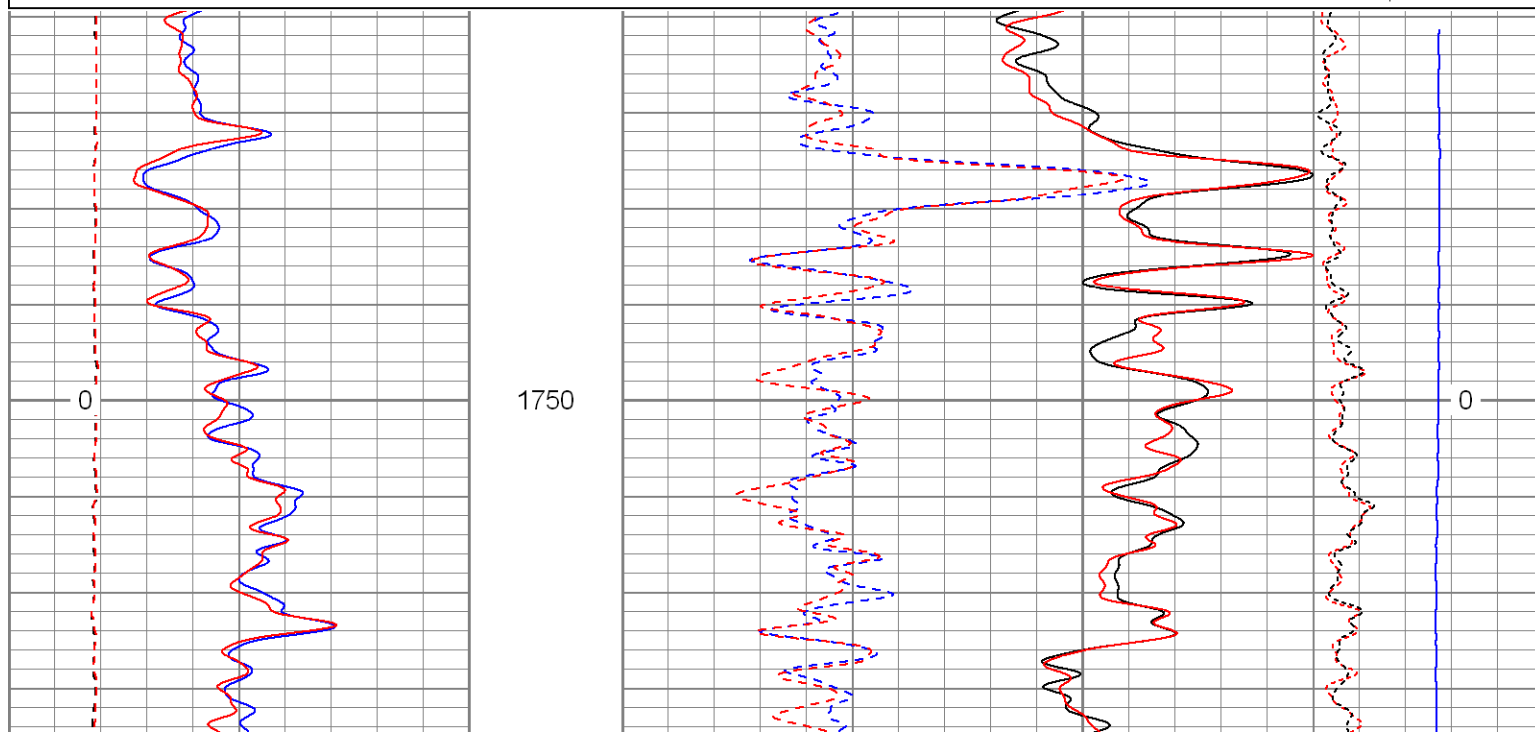
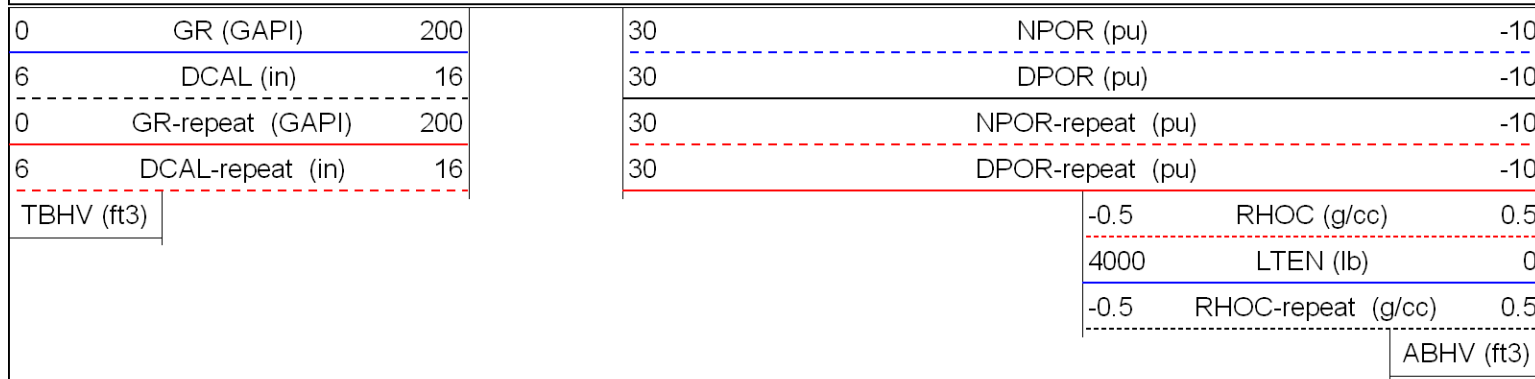


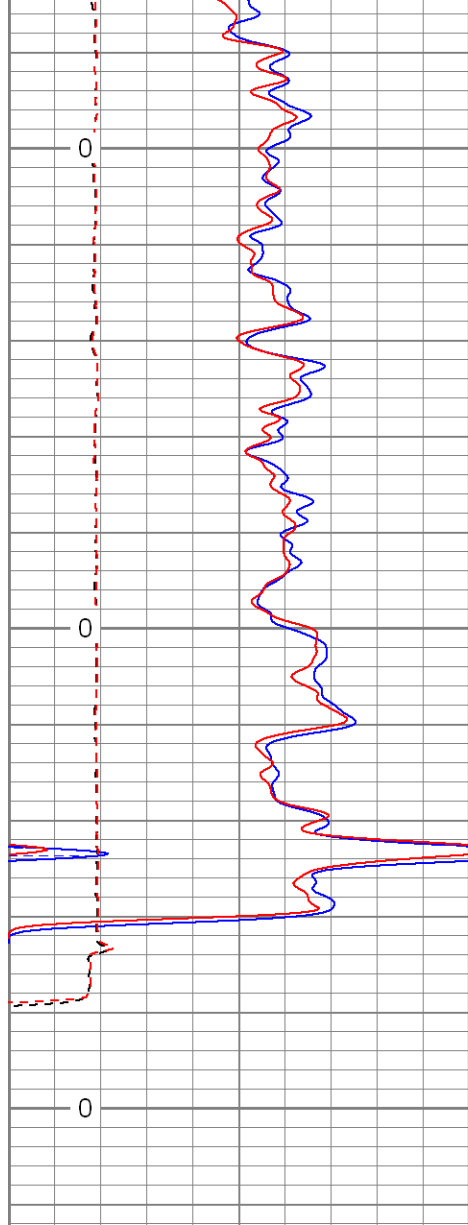
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Repeat Pass

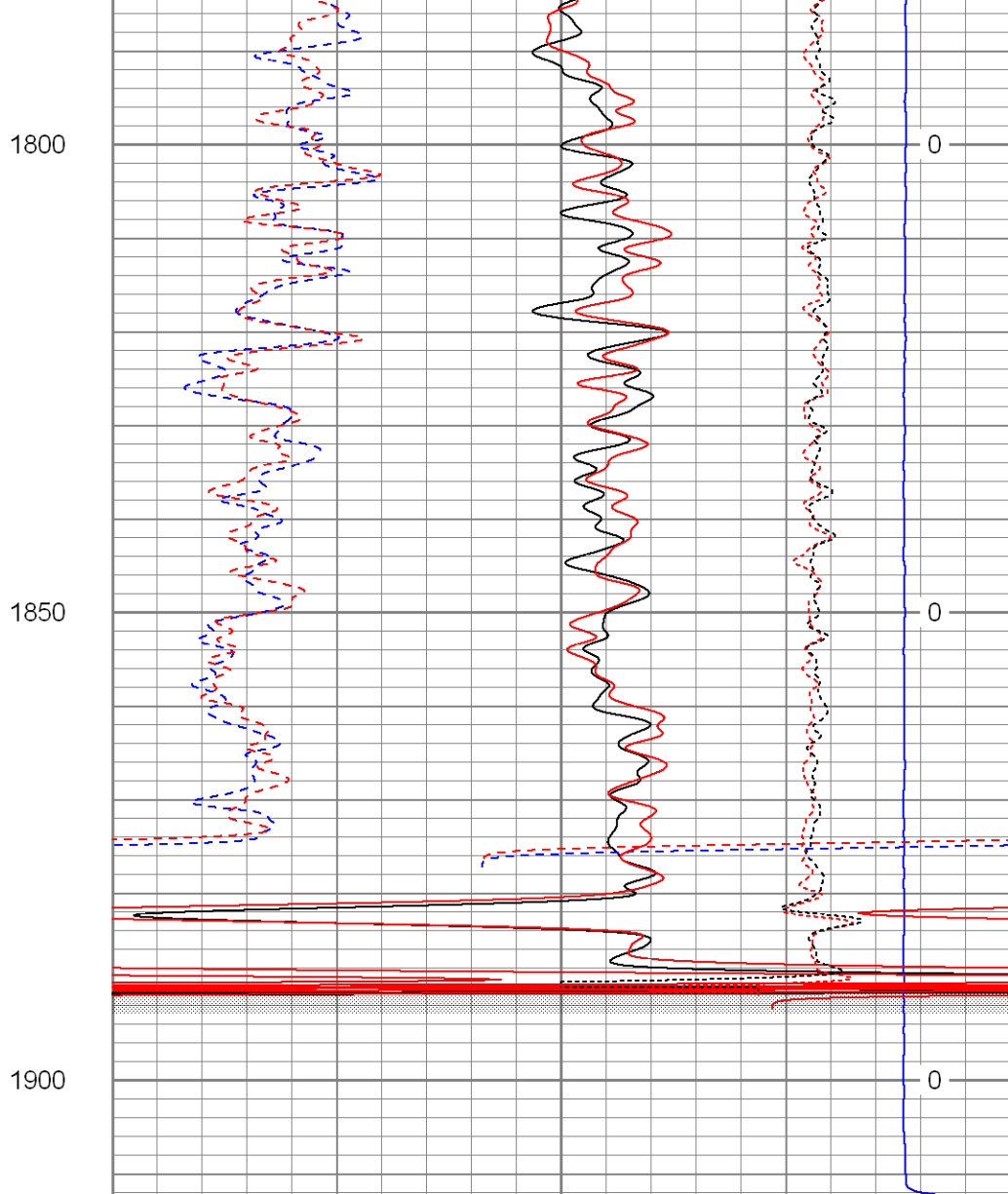
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Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Sun Jan 20 20:23:05 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240





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

TBHV (ft3)



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

-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5

ABHV (ft3)



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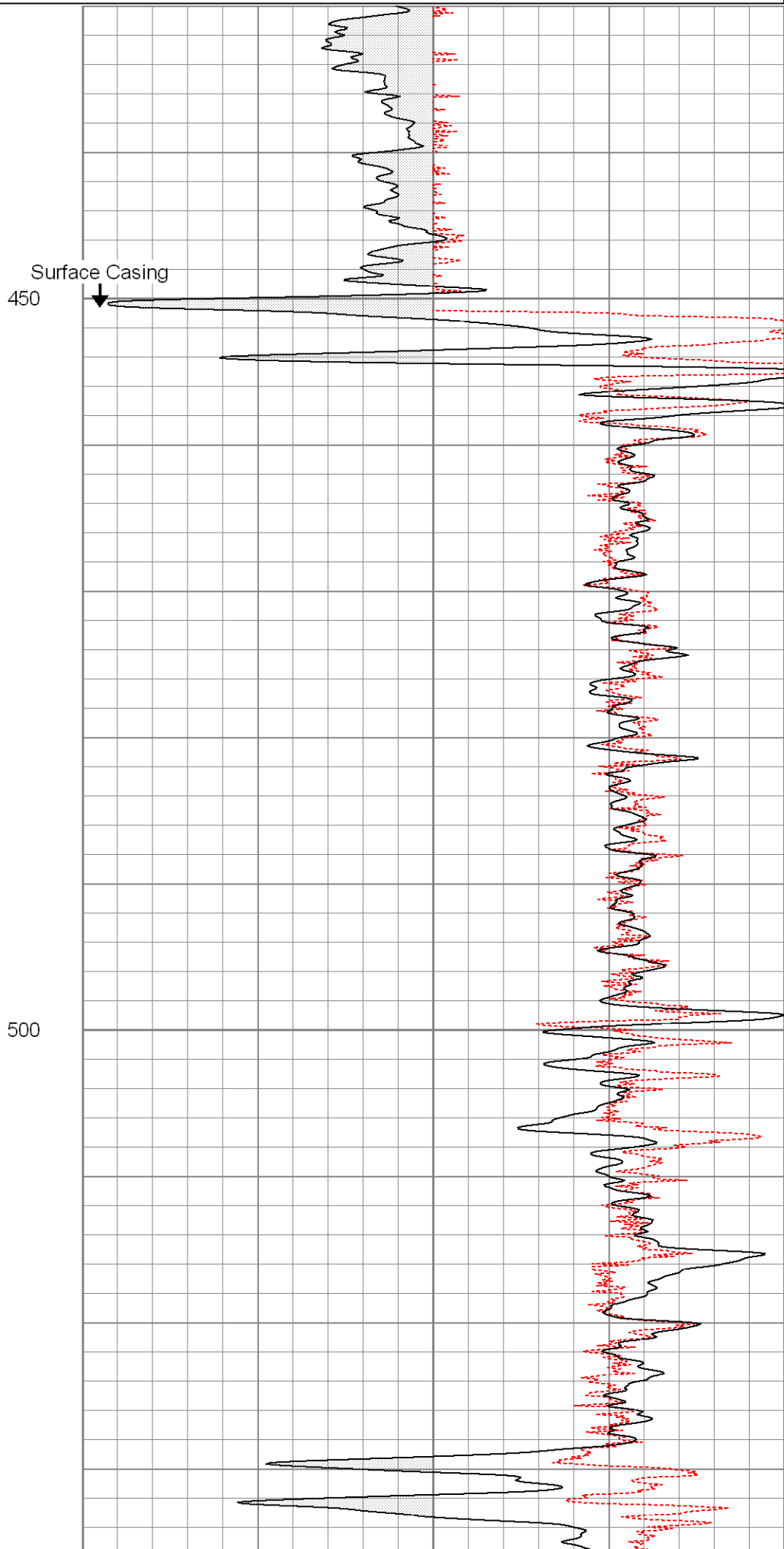
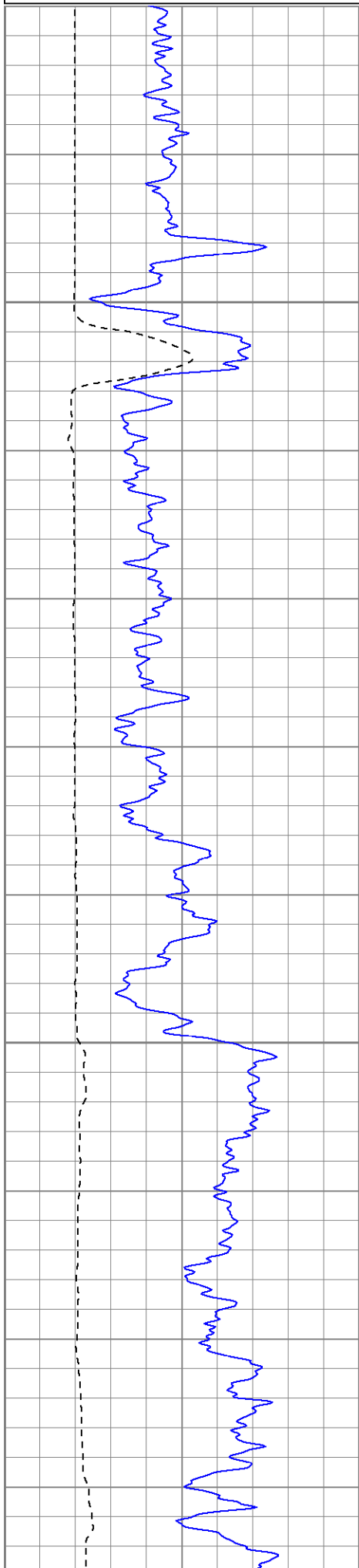
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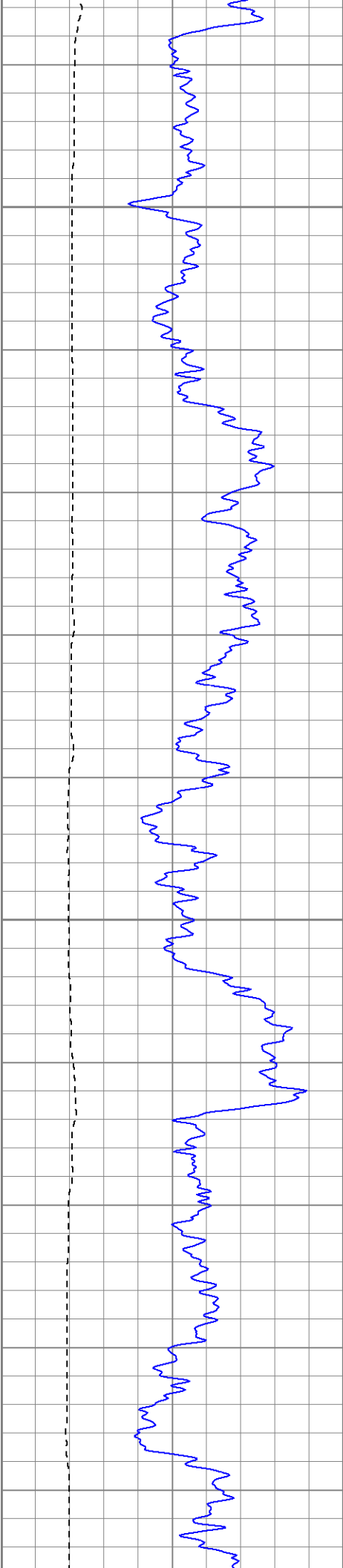
High Resolution Pass

Database File: xtoge2907.db
Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Mon Jan 21 07:56:31 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

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

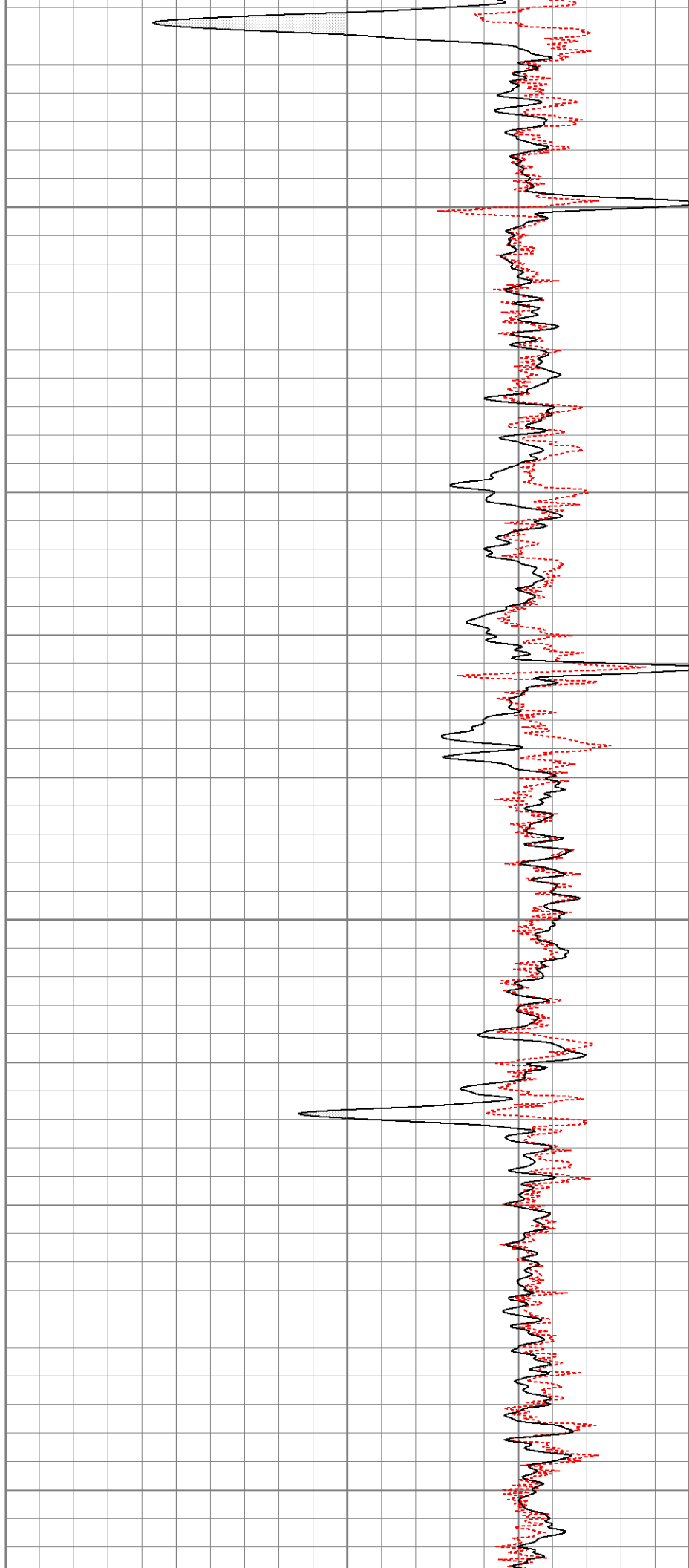
1	RHOB (g/cc)	3
0.5	RHOC (g/cc)	0.5

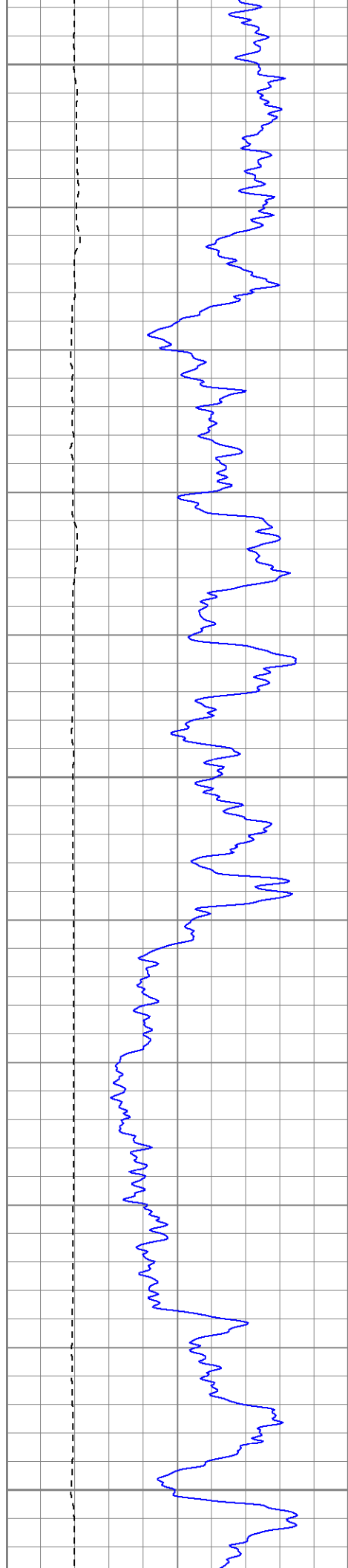




550

600

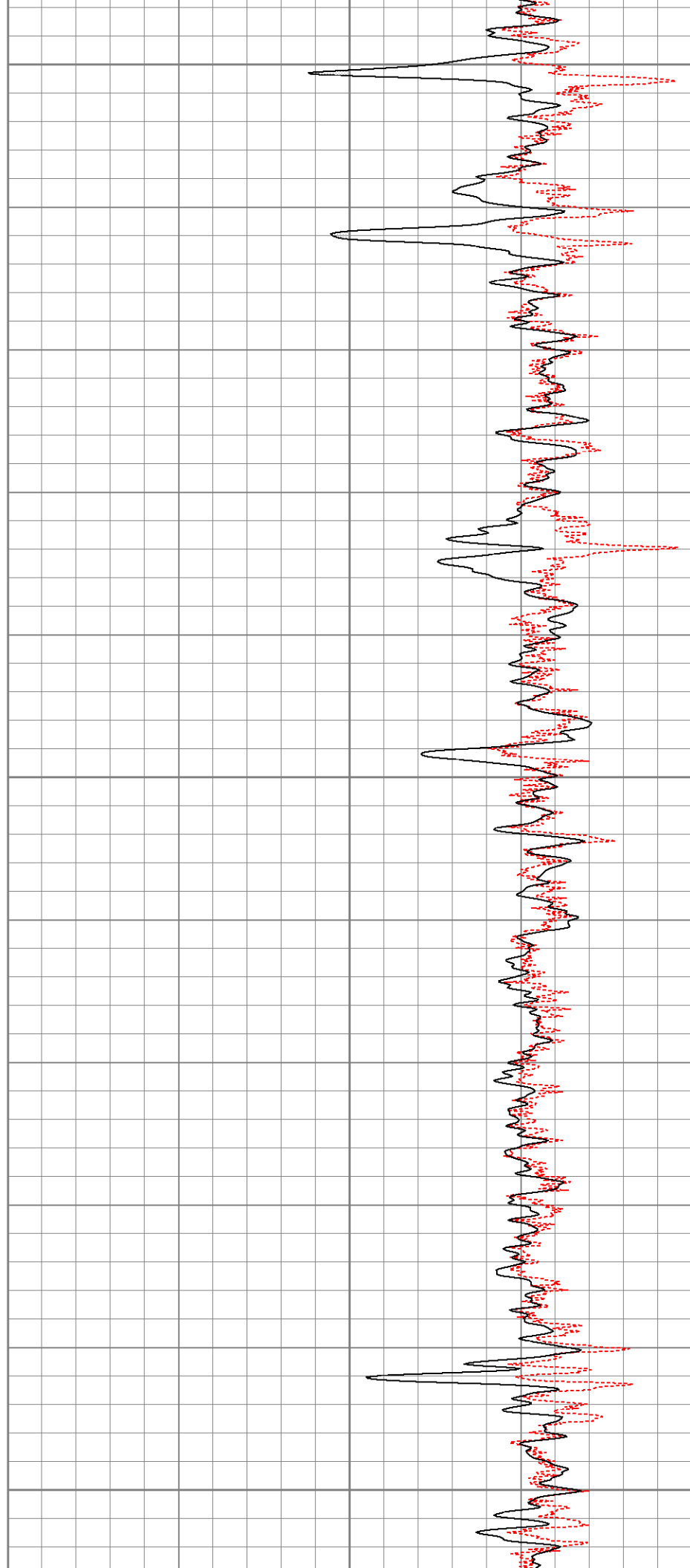


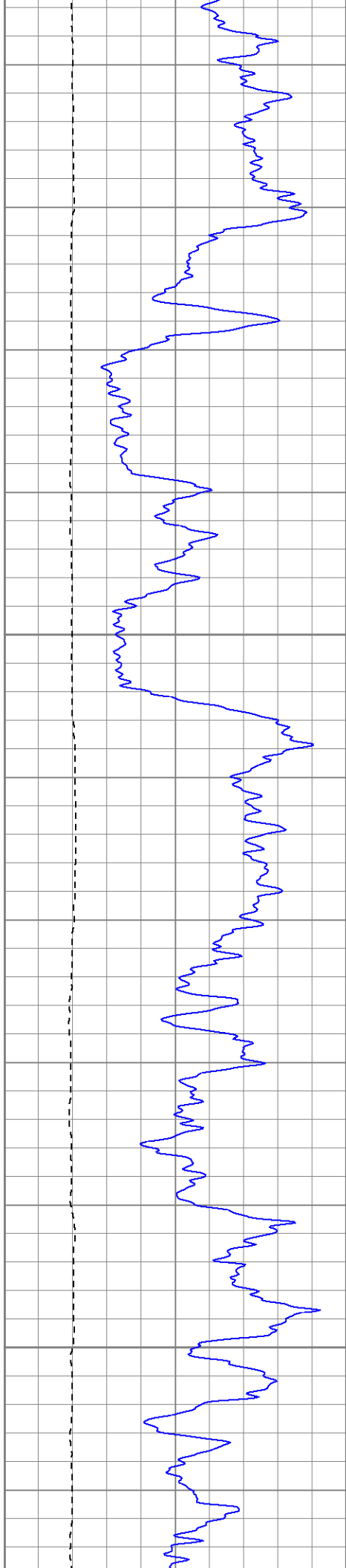


650

700

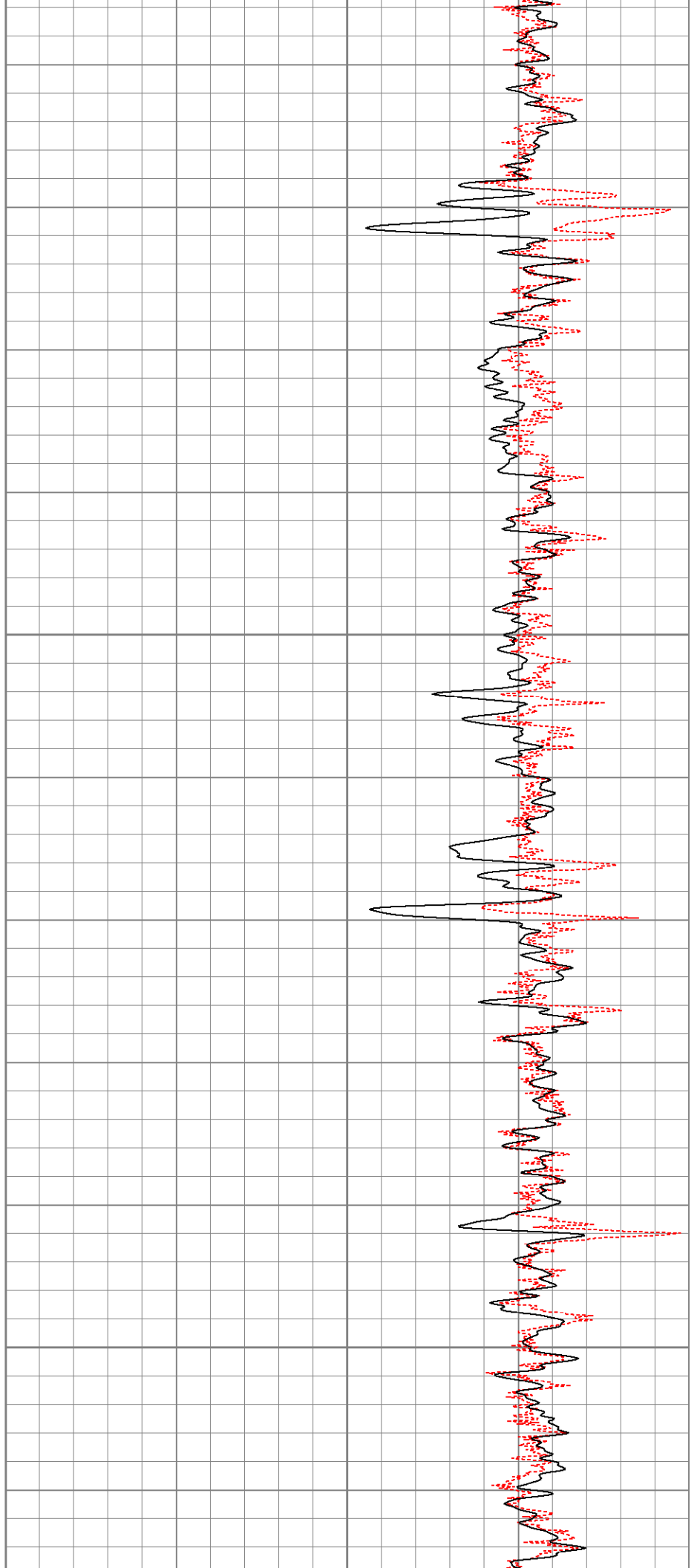
750

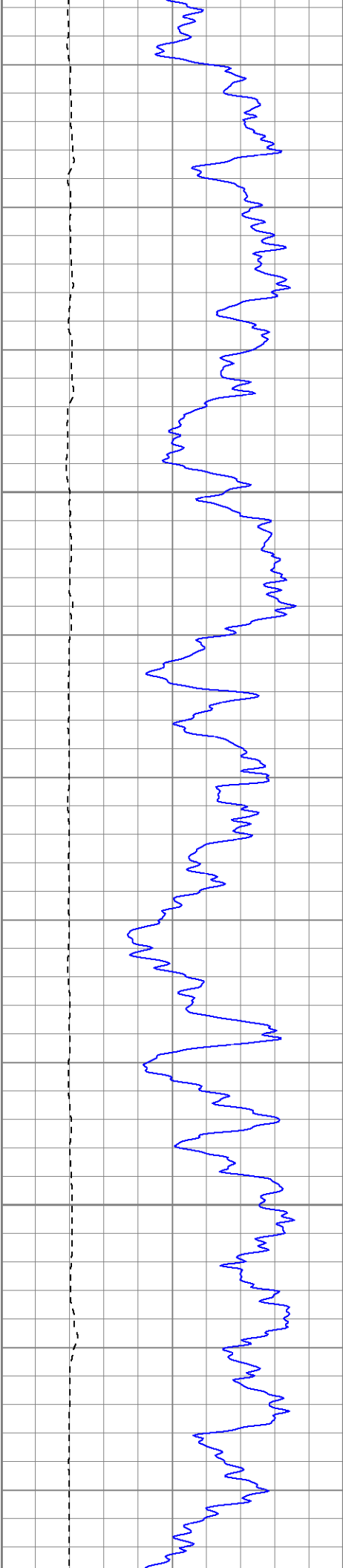




800

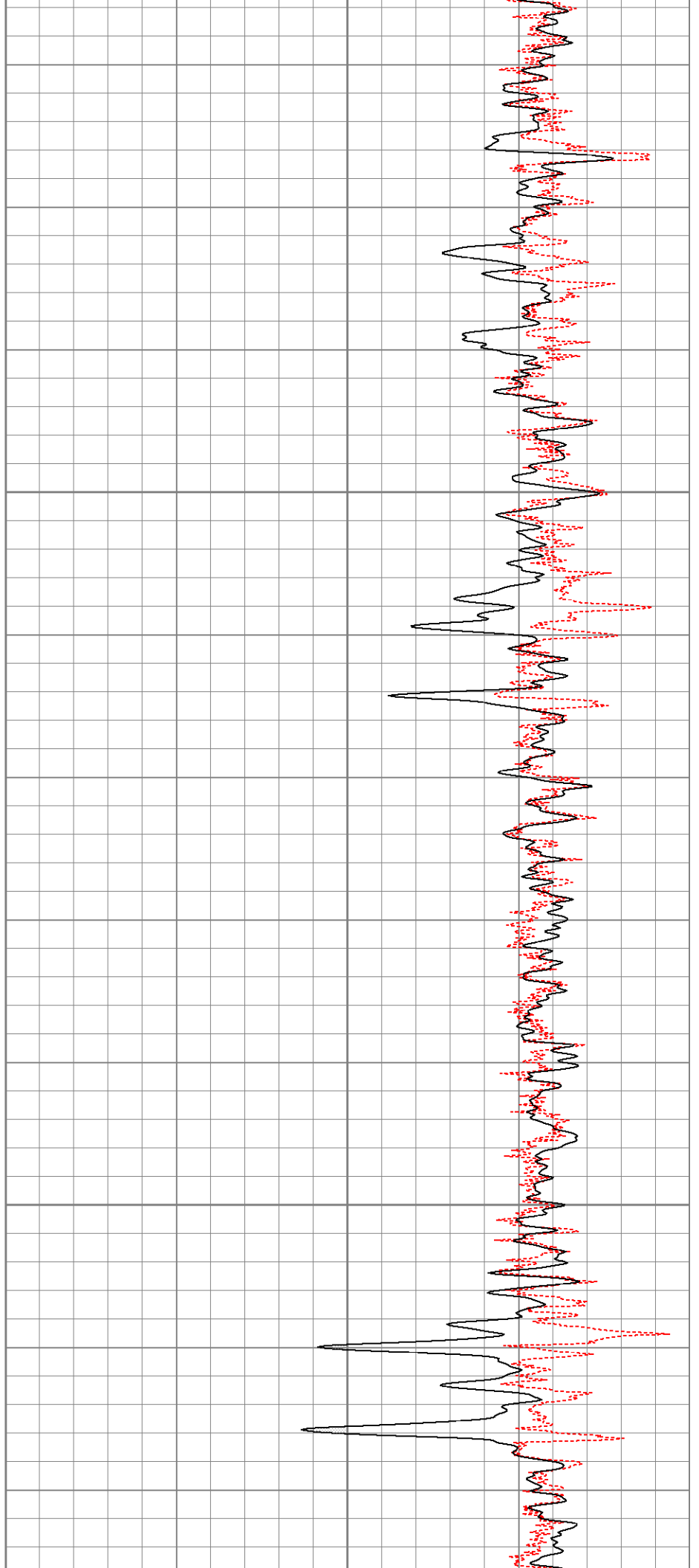
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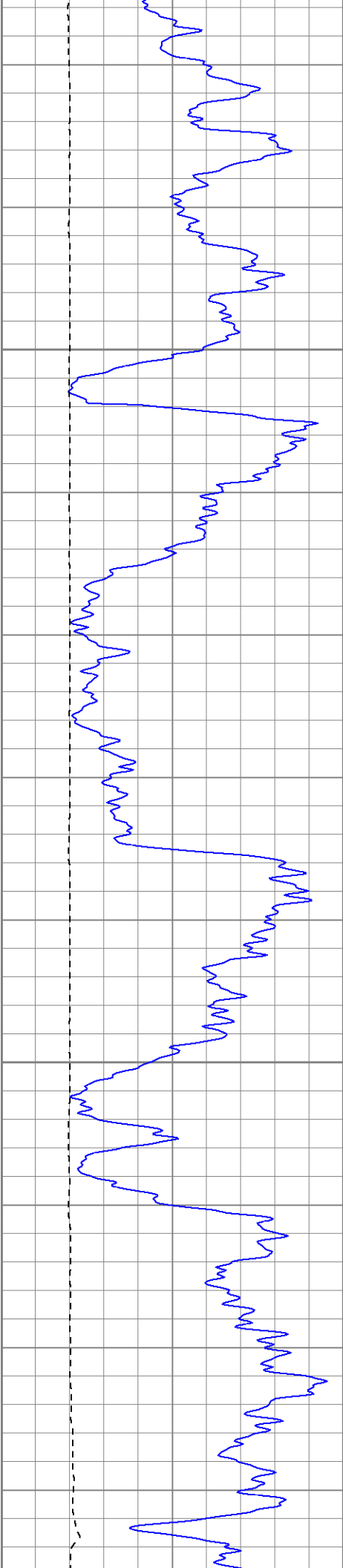




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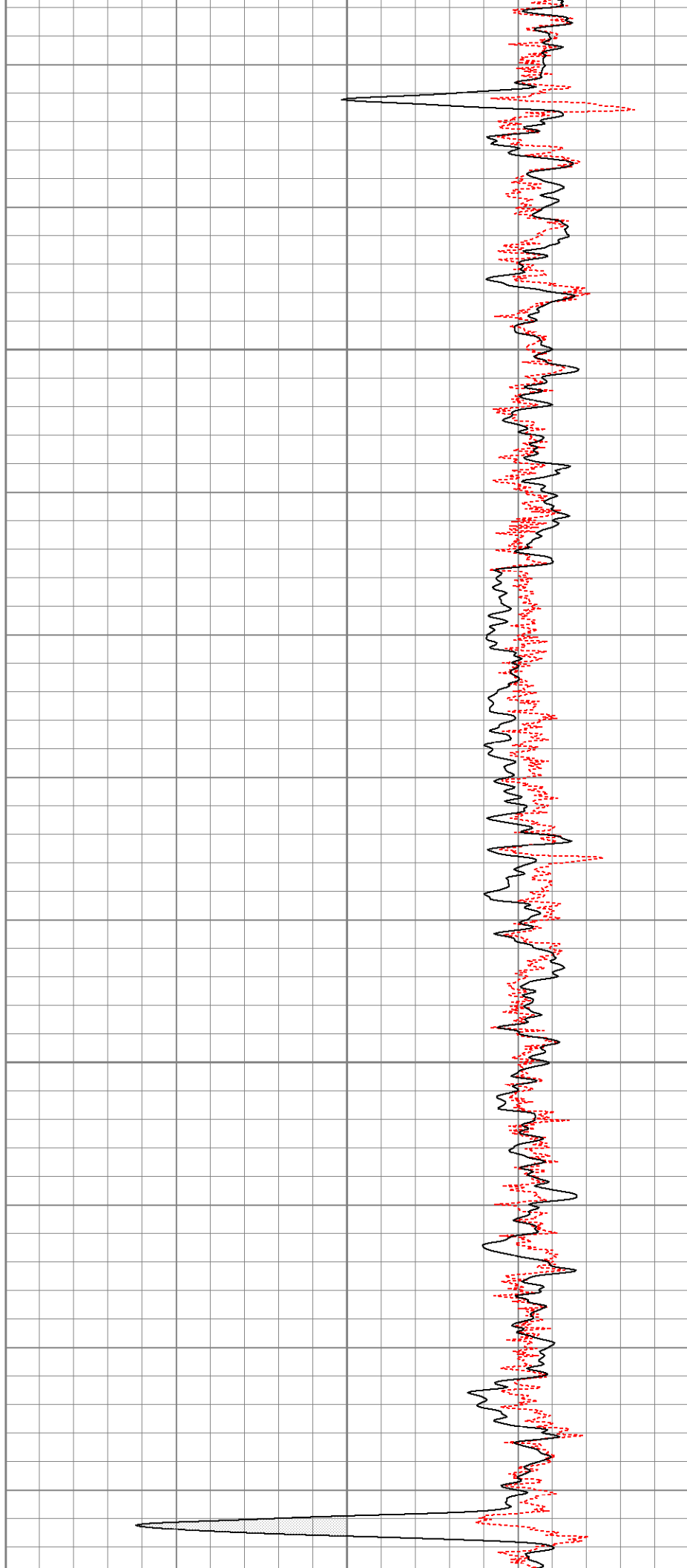
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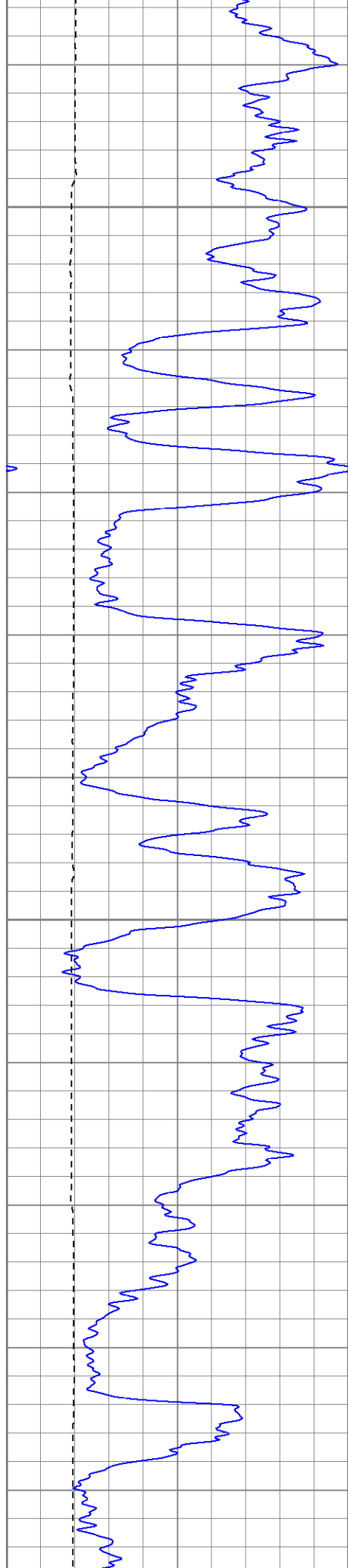




1000
Fluid Level

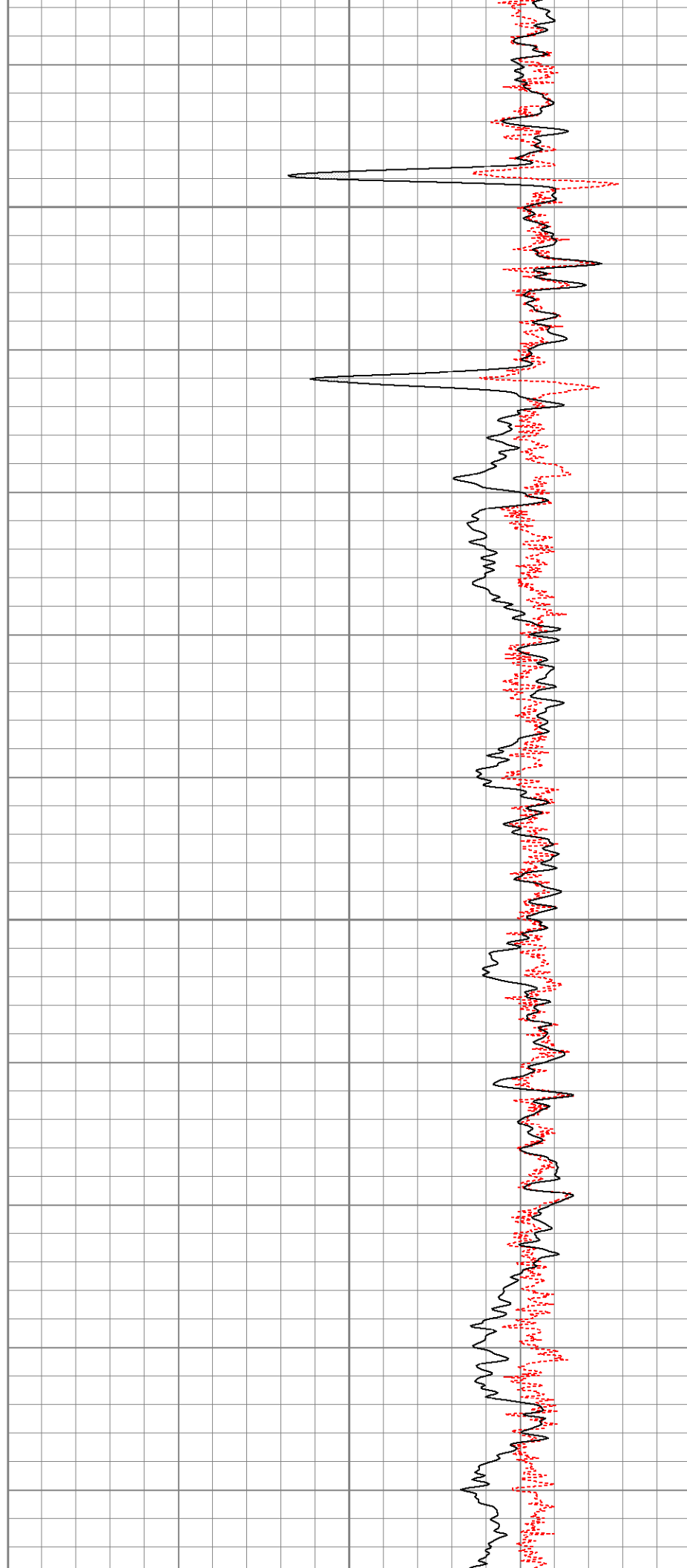
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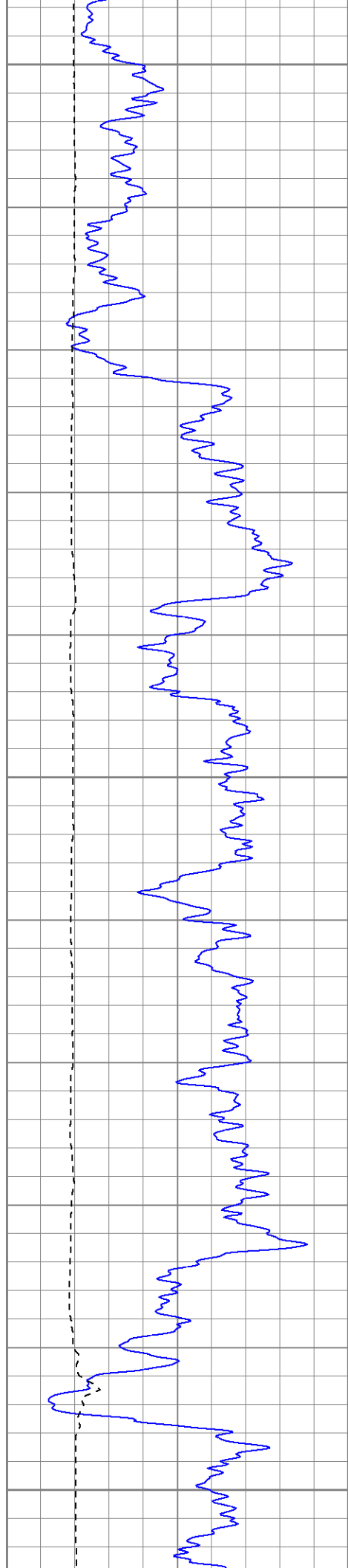




1100

1150

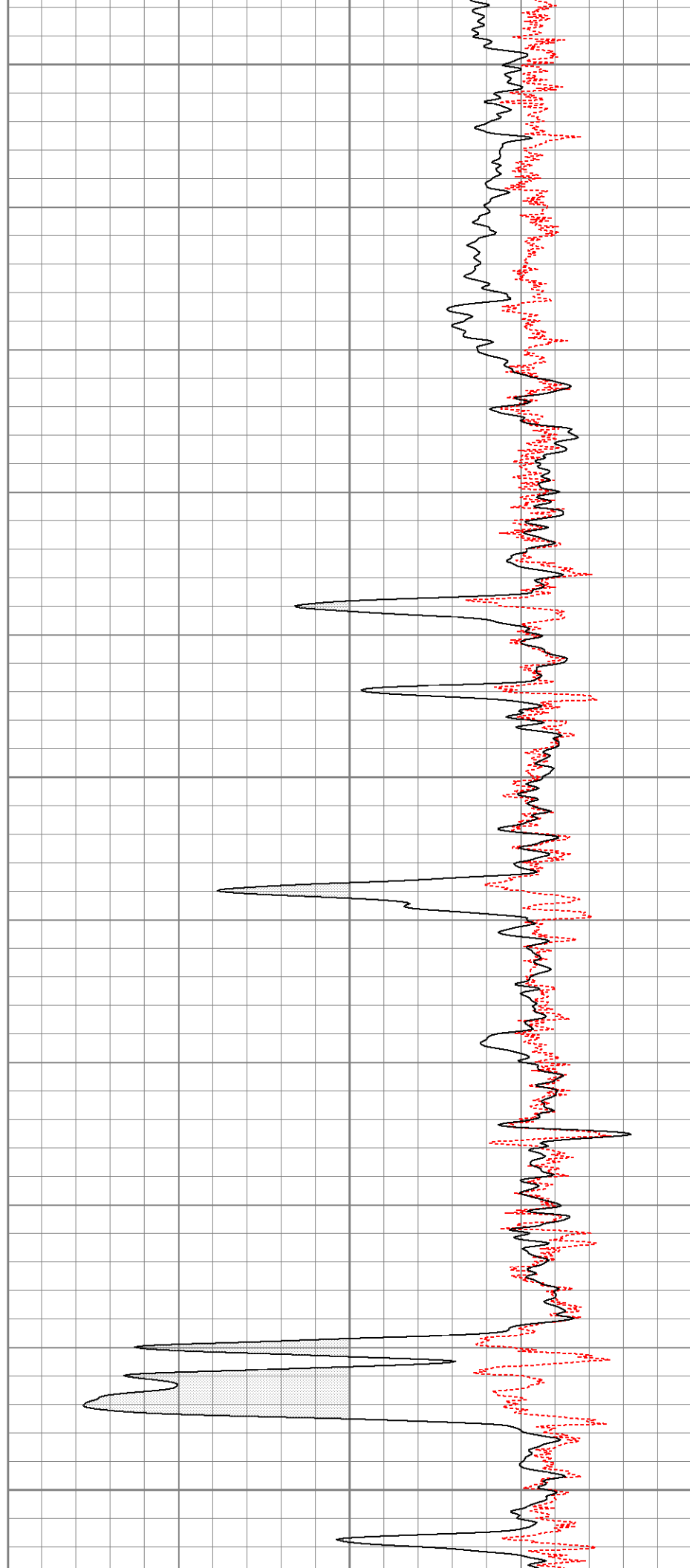


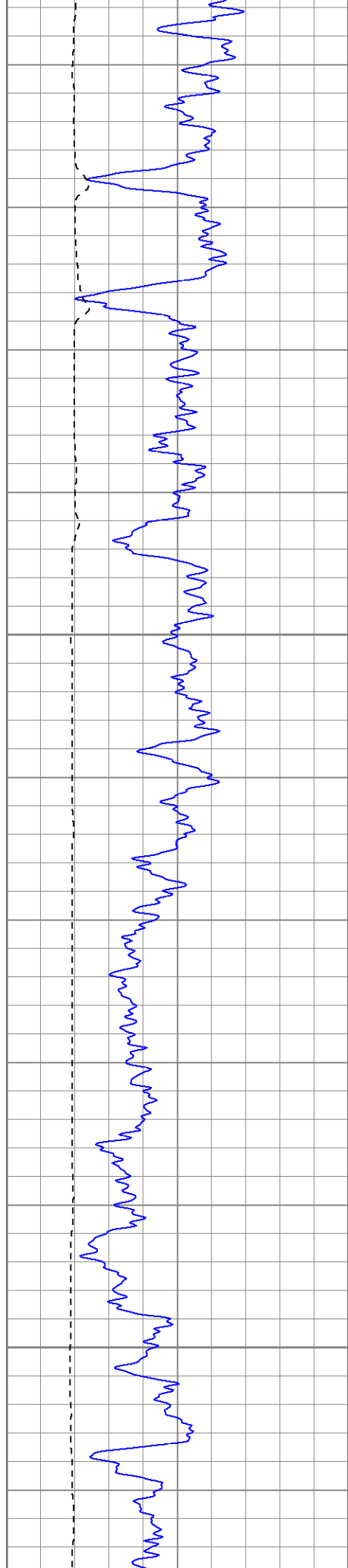


1200

1250

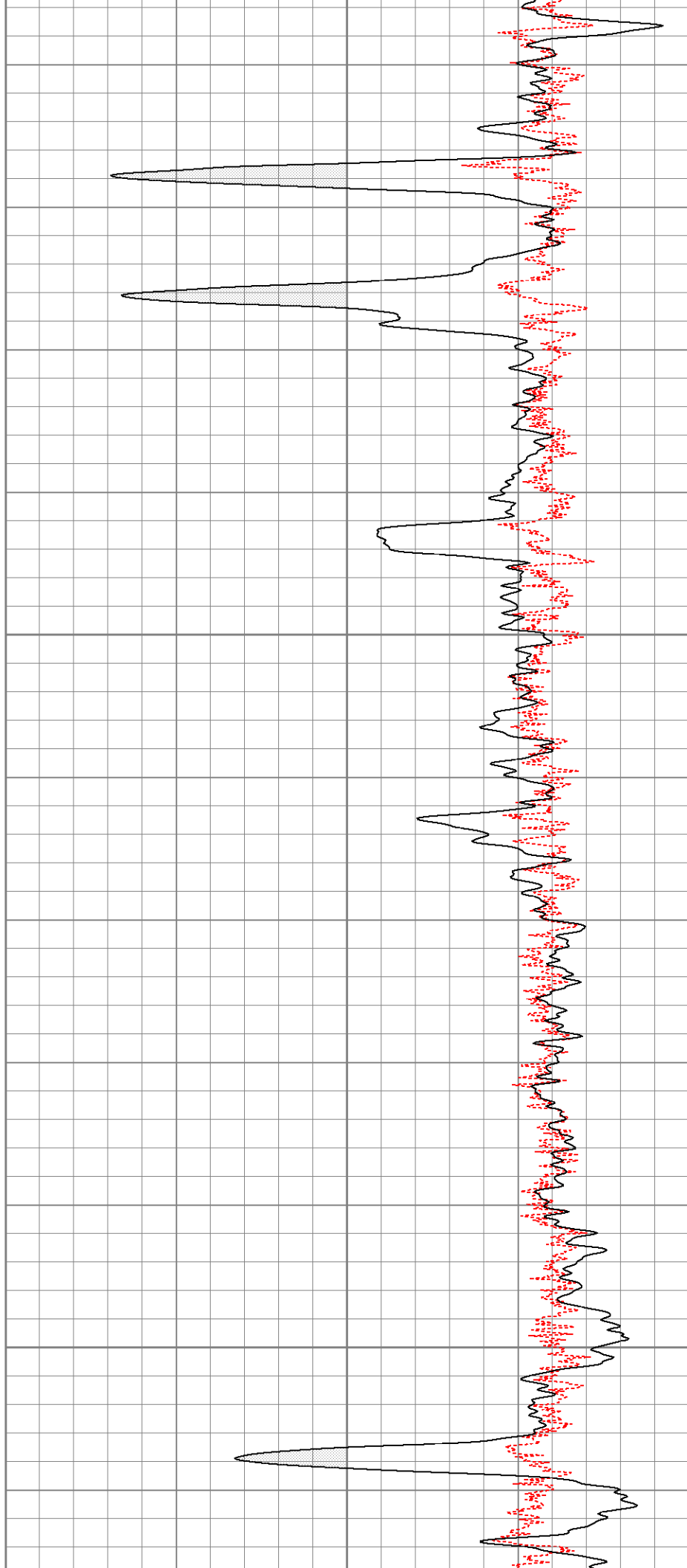
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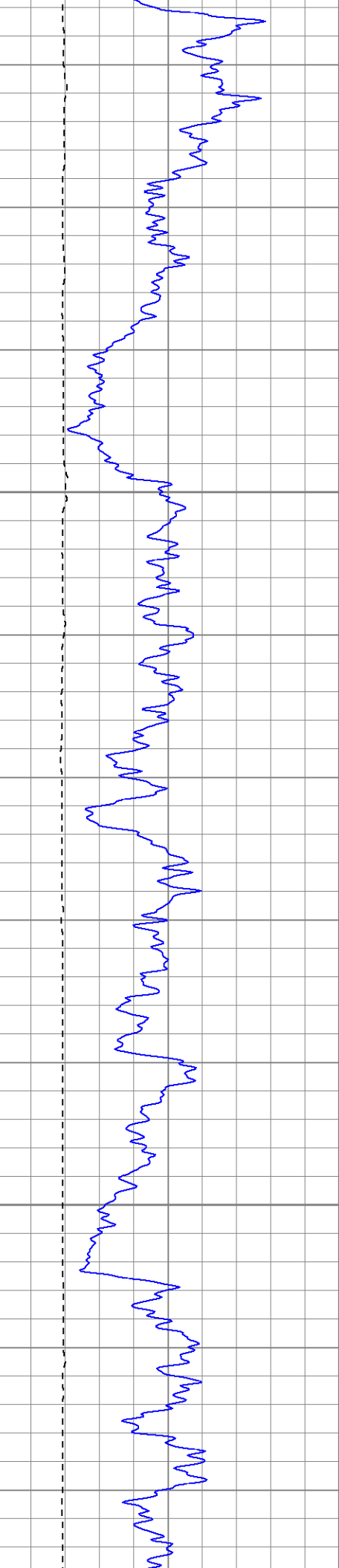




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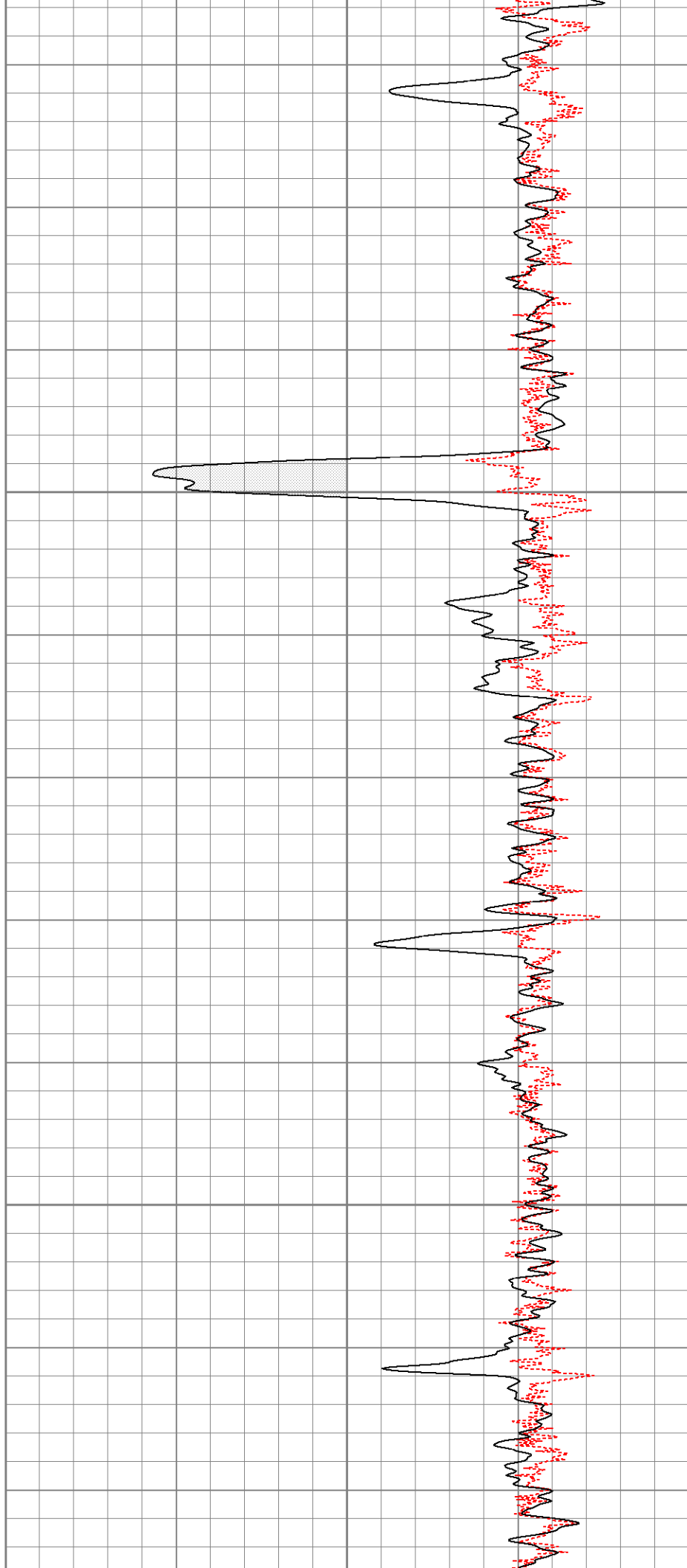
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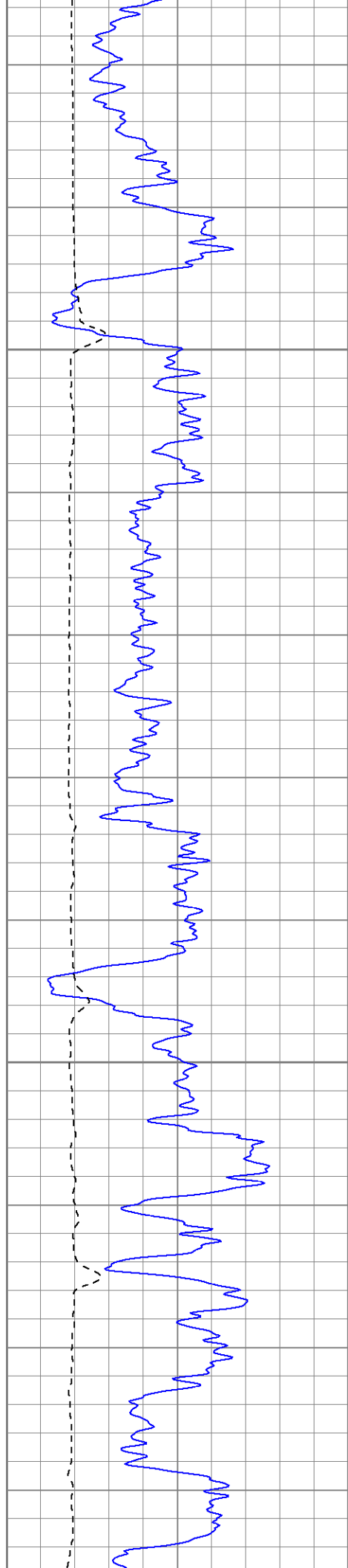




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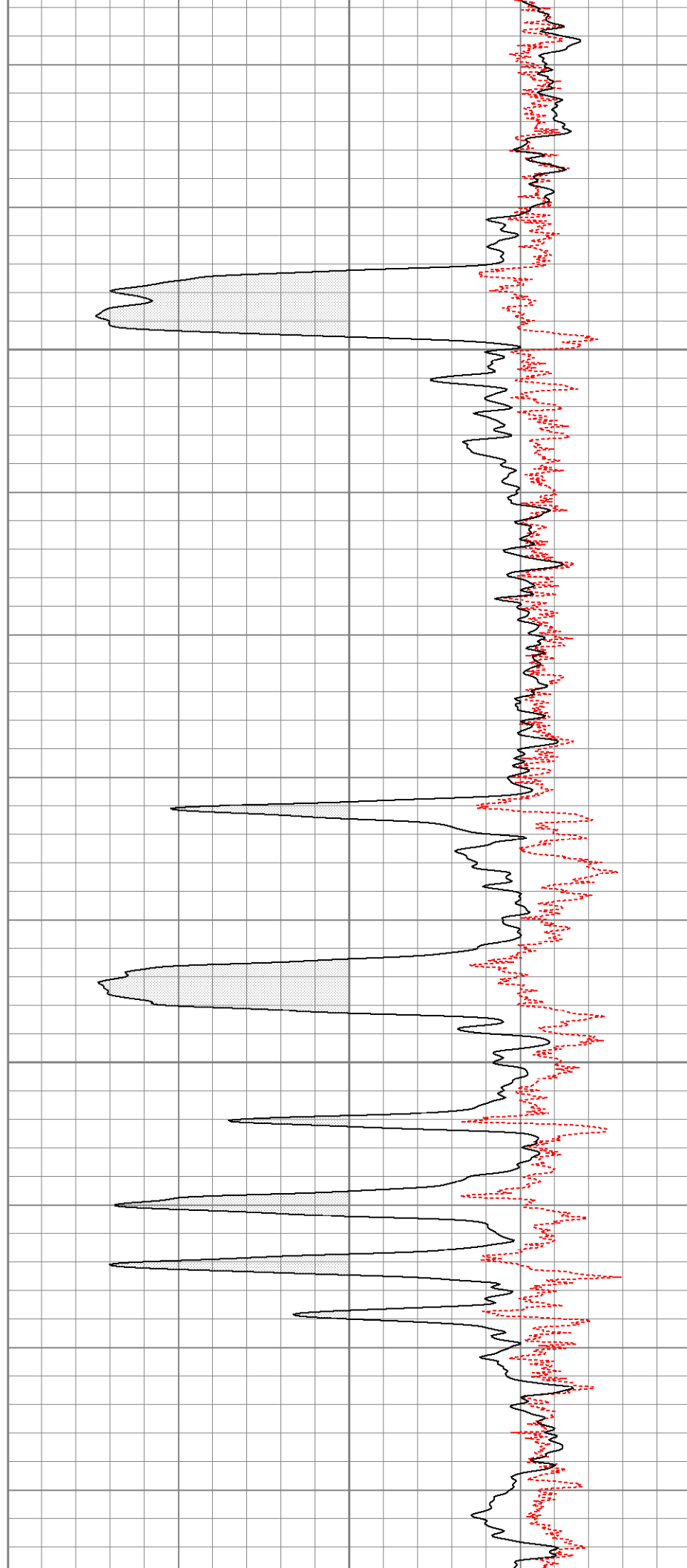
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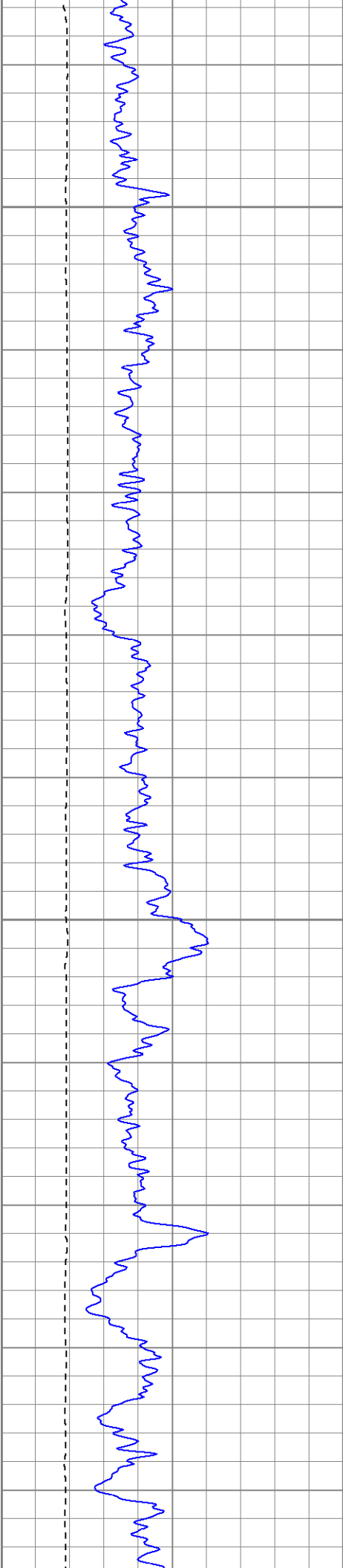




1550

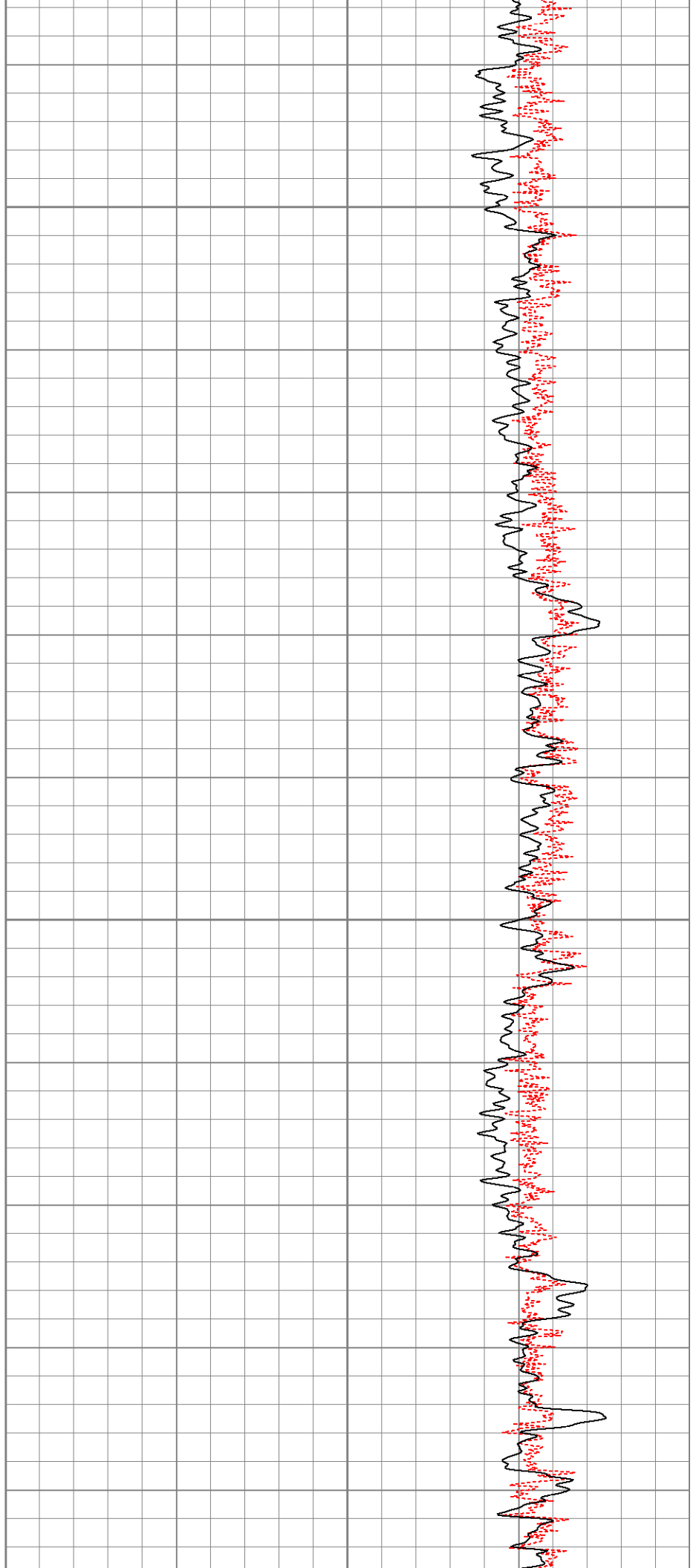
1600

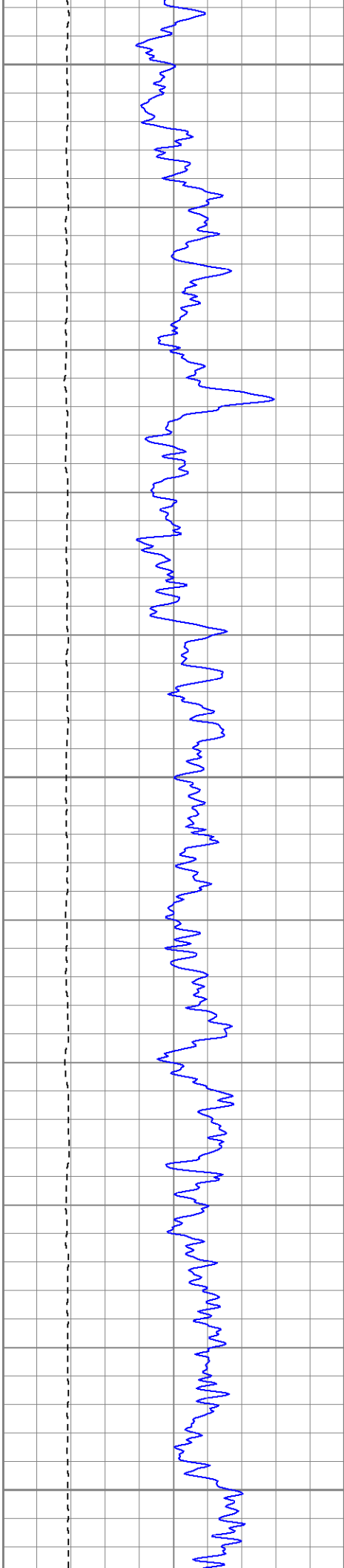




1650

1700

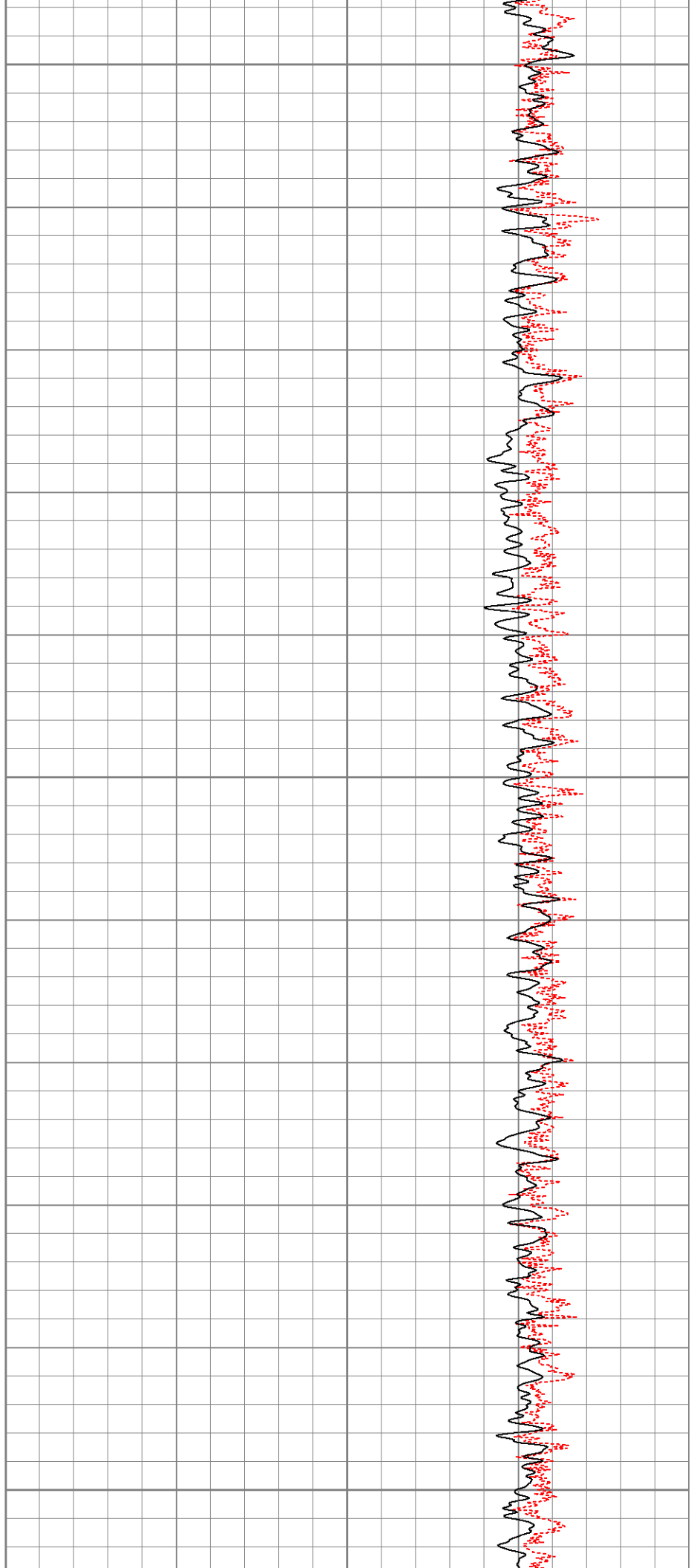


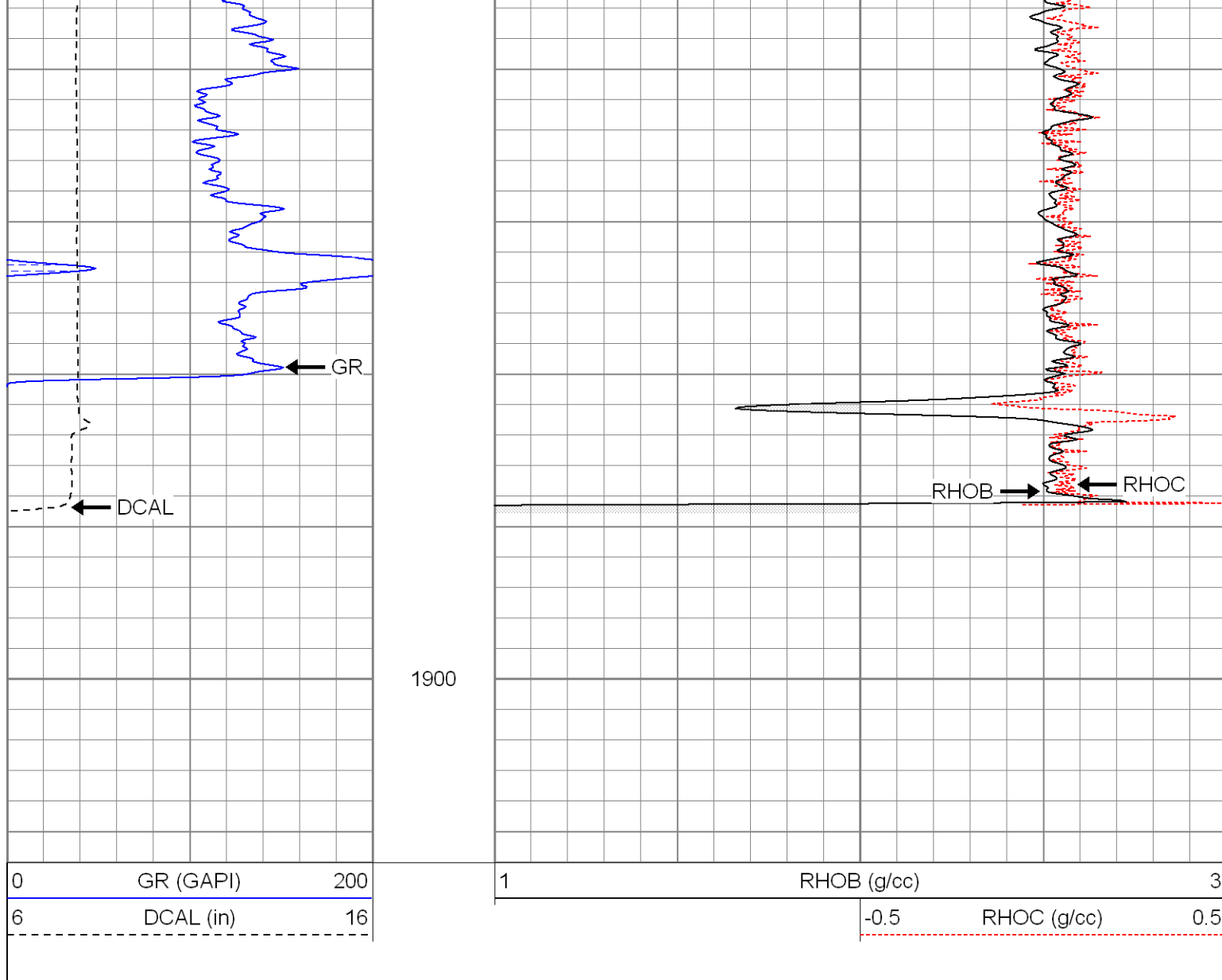


1750

1800

1850





Calibration Report

Database File: xtoge2907.db
 Dataset Pathname: pass1
 Dataset Creation: Sun Jan 20 19:19:36 2008 by Log Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Thu Jan 10 17:04:29 2008
 Downhole Cal Performed: Thu Jan 10 17:05:58 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.001	0.621	V	0.000	500.000	mmho-m	807.348	-1.148
Medium	0.005	0.745	V	0.000	550.000	mmho-m	743.100	-3.588
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.621	V	0.000	500.000	mmho-m	806.966	-1.153
Medium	0.005	0.745	V	0.000	550.000	mmho-m	742.904	-3.460

Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	0.177	500.330	mmho-m	0.005	500.241	mmho-m	1.000	-0.172
Medium	-0.163	549.964	mmho-m	-0.127	550.018	mmho-m	1.000	0.036
Shallow	2.506	0.009	V	500.000	2.000	Ohm-m	125.000	-3.000

Compensated Density Calibration Report

Serial-Model: 2118-poilex
 Source / Verifier: /
 Master Calibration Performed: Tue Jan 08 02:47:05 2008

Master Calibration



	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		718.08	683.29	cps
Aluminum	2.590	g/cc		158.70	455.82	cps
Spine Angle = 74.99			Density/Spine Ratio = 0.563			
	Size			Reading		
Small Ring	8.90	in		4.48	V	
Large Ring	14.00	in		8.06	V	

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Tue Jan 08 10:28:42 2008
 Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.2500 GAPI/cps

Neutron Calibration Report

Serial Number: 5145
 Tool Model: G
 Performed: Thu Jan 10 08:01:02 2008
 Calibrator Value: 1200 NAPI
 Calibrator Reading: 1700 cps
 Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.19		None	0.75	1.50	5.00
			NEU-G (5145) Gearhart Epithermal	5.75	3.50	85.00
GR	31.62		GR-OH (2001) SIE	3.50	3.25	40.00

LSD	23.45					
DCAL	23.04					
SSD	22.91					
CILD	10.60					
SP	10.60					
CILM	6.89					
RLL3	1.70					
Dataset: xtoge2907.db: field/well/run1/pass1 Total Length: 39.62 ft Total Weight: 750.00 lb O.D.: 4.00 in						