



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

COMPENSATED DENSITY/NEUTRON LOG

Company XTO Energy Inc.
Well New Elk 25-14
Field Purgatoire River
County Las Animas State Colorado

Location: API #: 05 071 09537 00

803' FSL & 2322' FWL

Other Services
DIL

SEC 25 TWP 33S RGE 68W

Permanent Datum	Ground Level	Elevation	7468'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B. -----
D.F. -----
G.L. 7468'

Date 6-12-08

Run Number One

Depth Driller 1900'

Depth Logger 1905'

Bottom Logged Interval 1988'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 489'

Casing Logger 489'

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 11:42 A.M.

Maximum Recorded Temperature 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

Density Neutron Porosity Presented on Sandstone Matrix.
ABHV Calculated for 5 1/2" Casing.
Well Directions:
Second Bosque Entrance, straight across railroad tracks, at Y stay right to
Apache canyon, follow Main road thru 2 locations, at Y at 2 green gates,
stay left, thru green gate, end on second drive thru location.

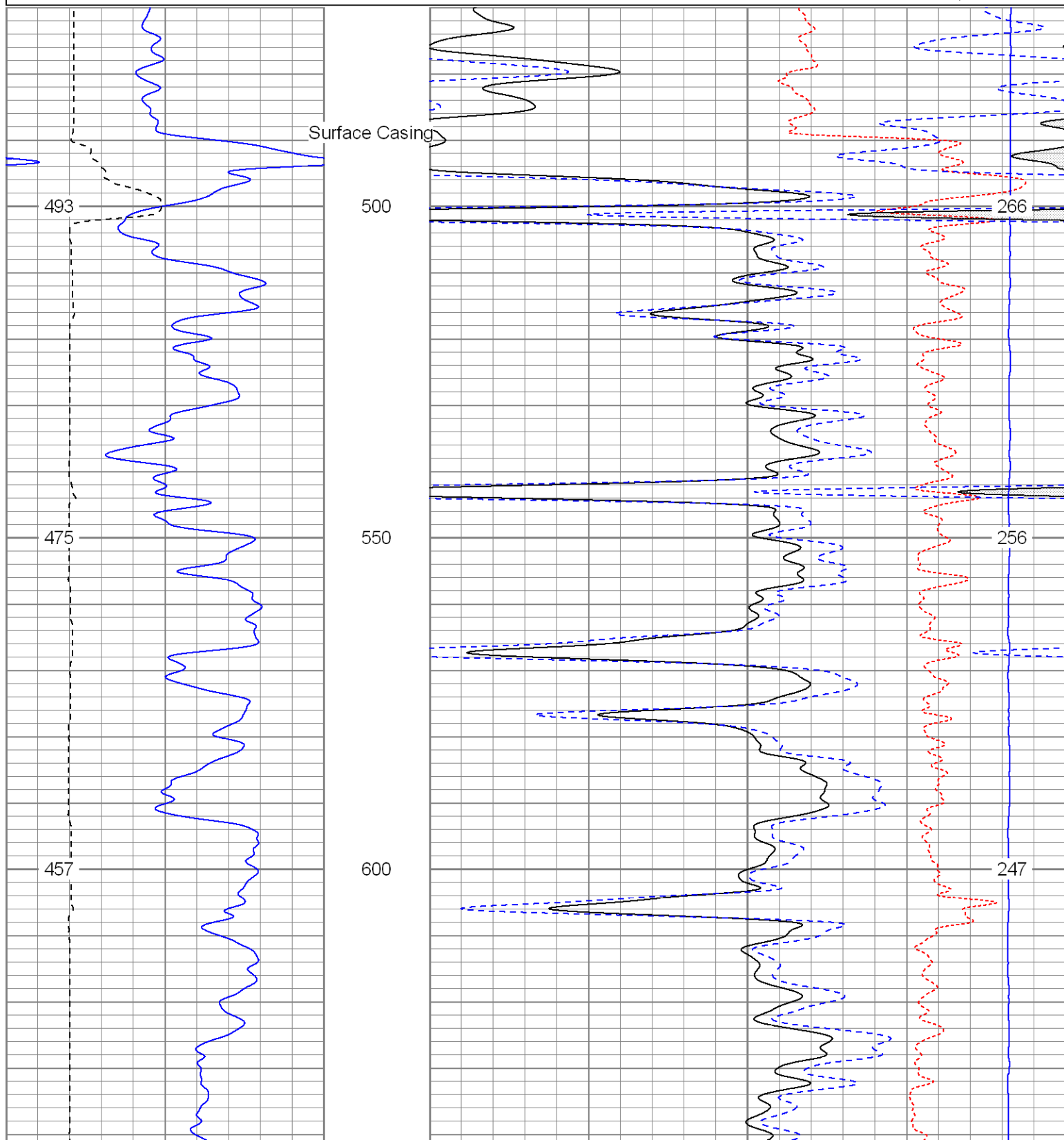


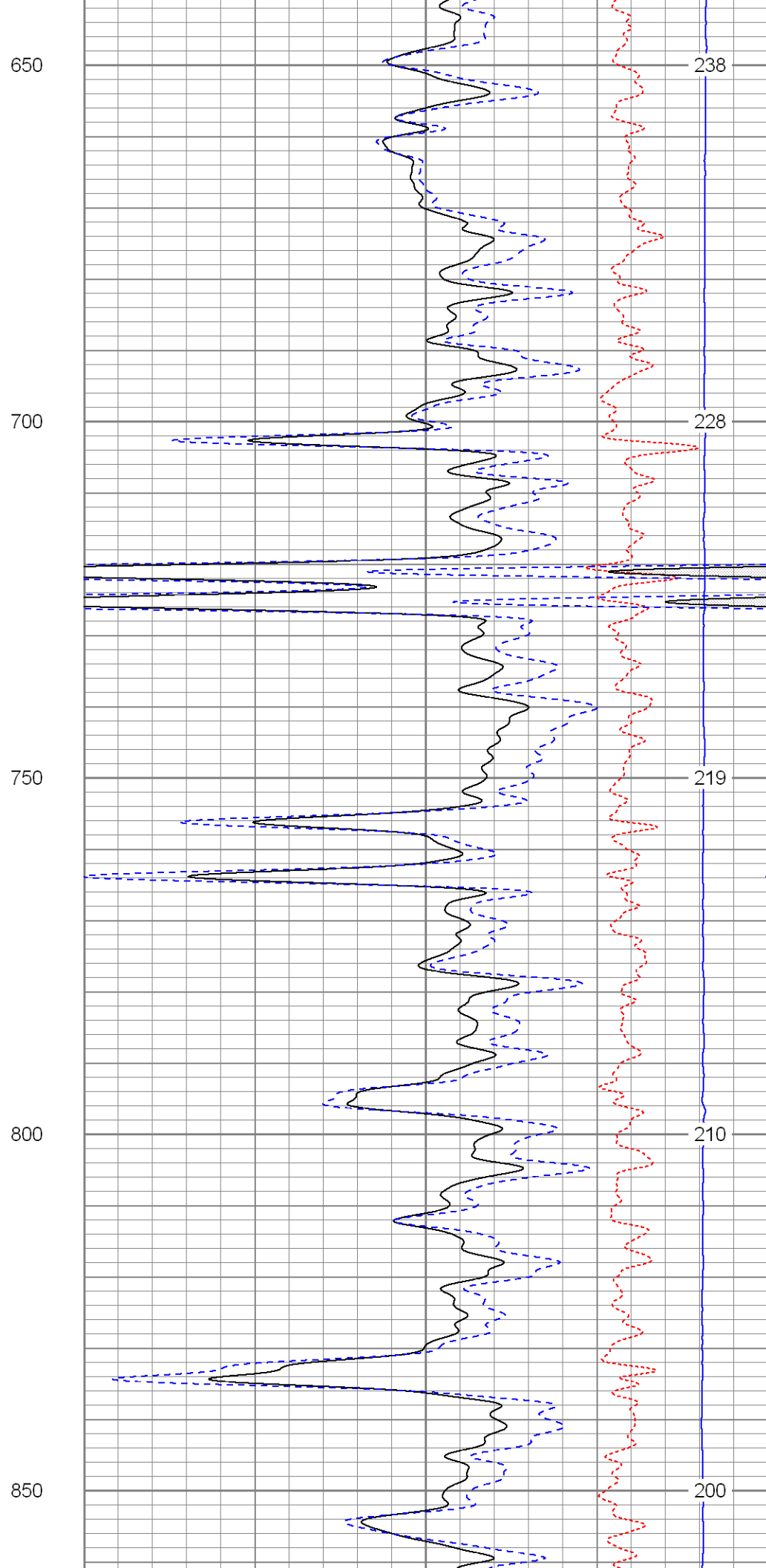
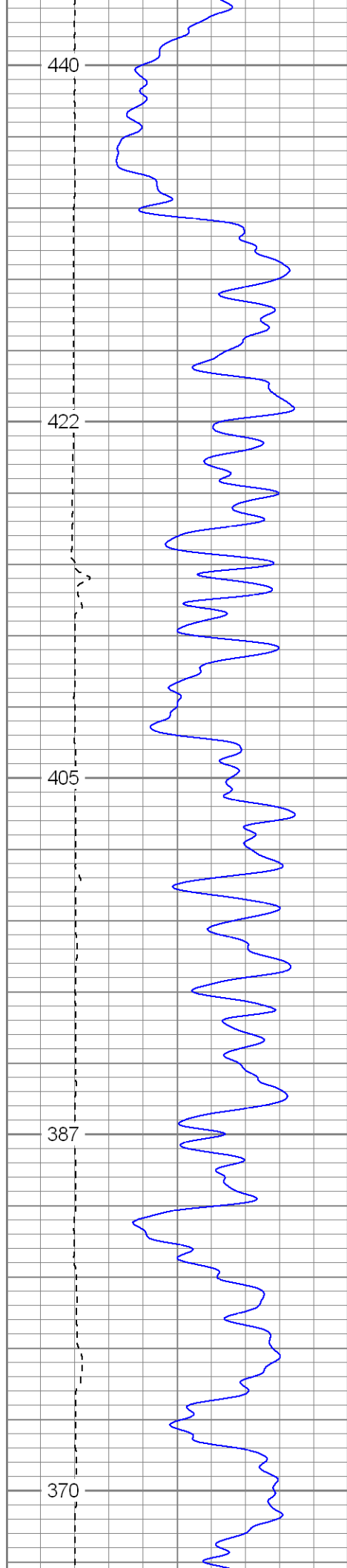
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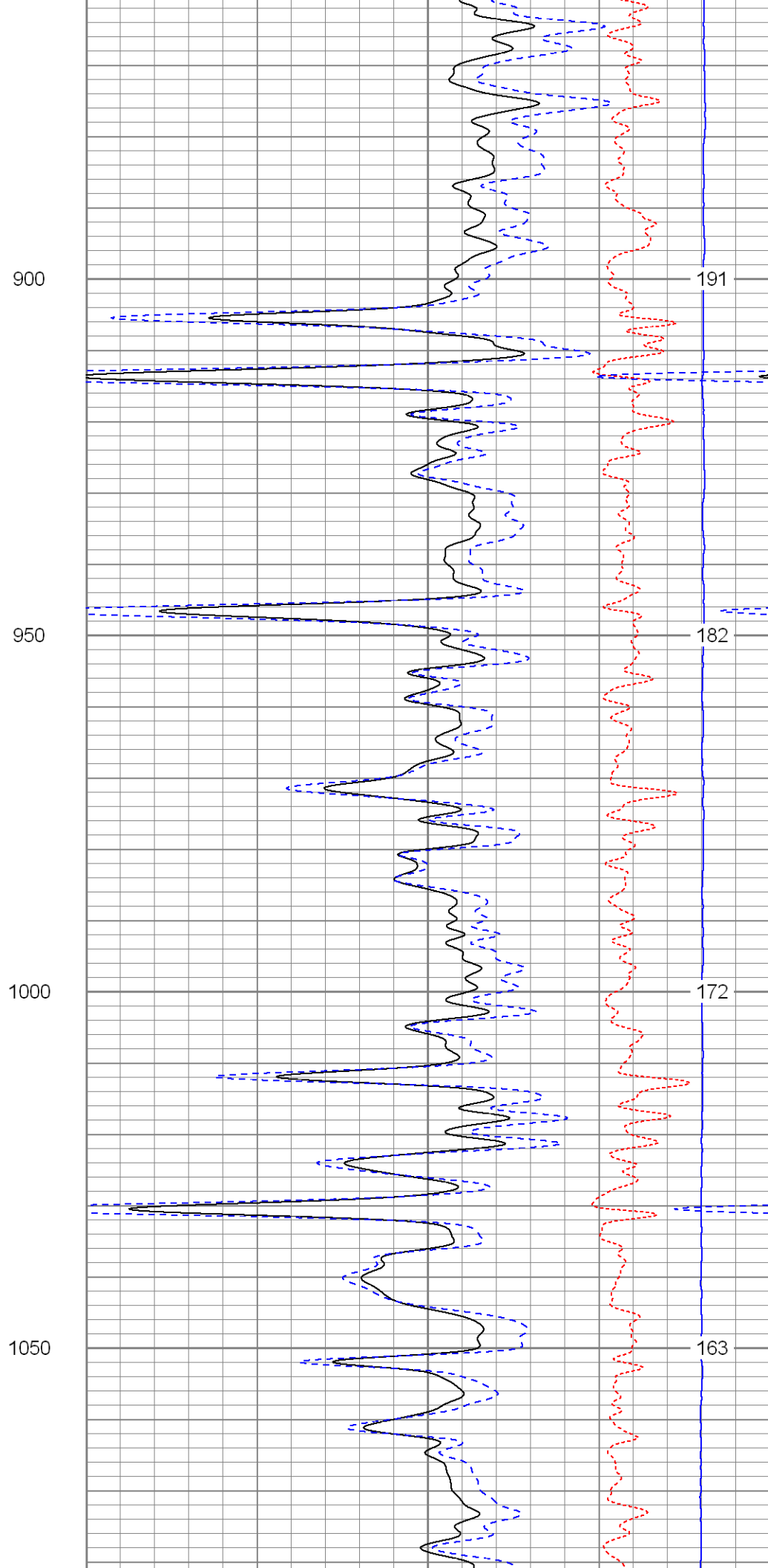
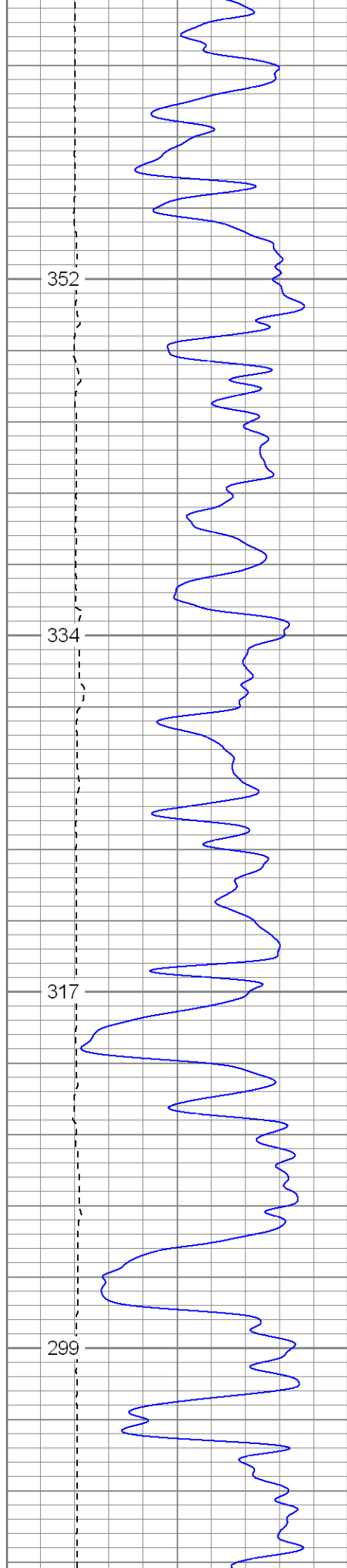
Main Pass

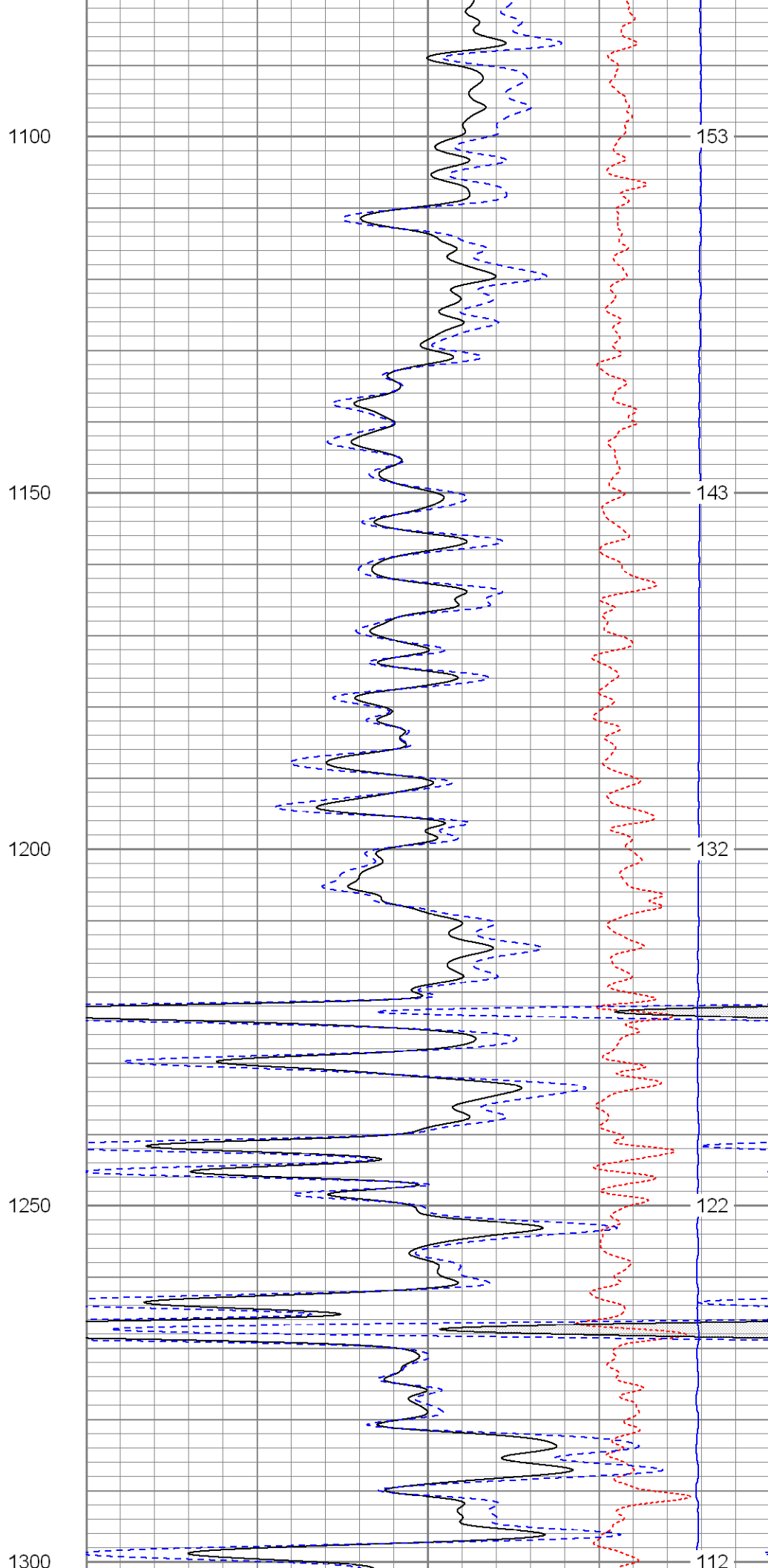
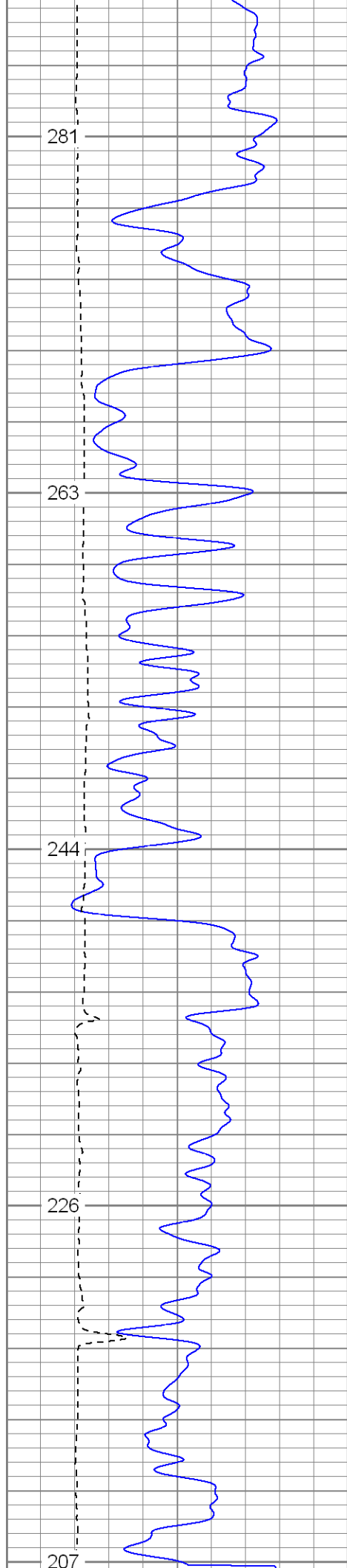
Database File: xtone2514.db
Dataset Pathname: pass3.1
Presentation Format: cdl
Dataset Creation: Thu Jun 12 13:31:55 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

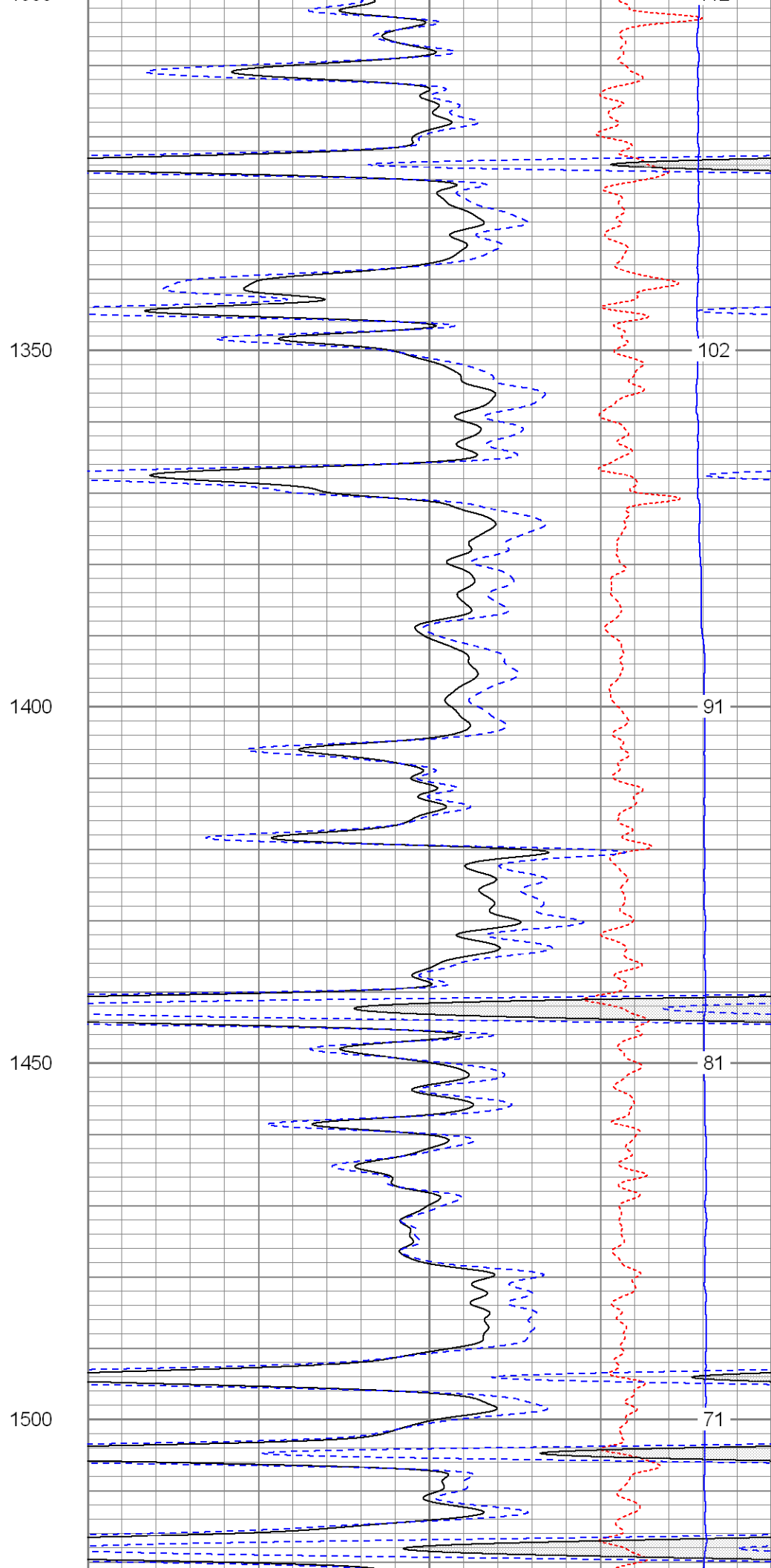
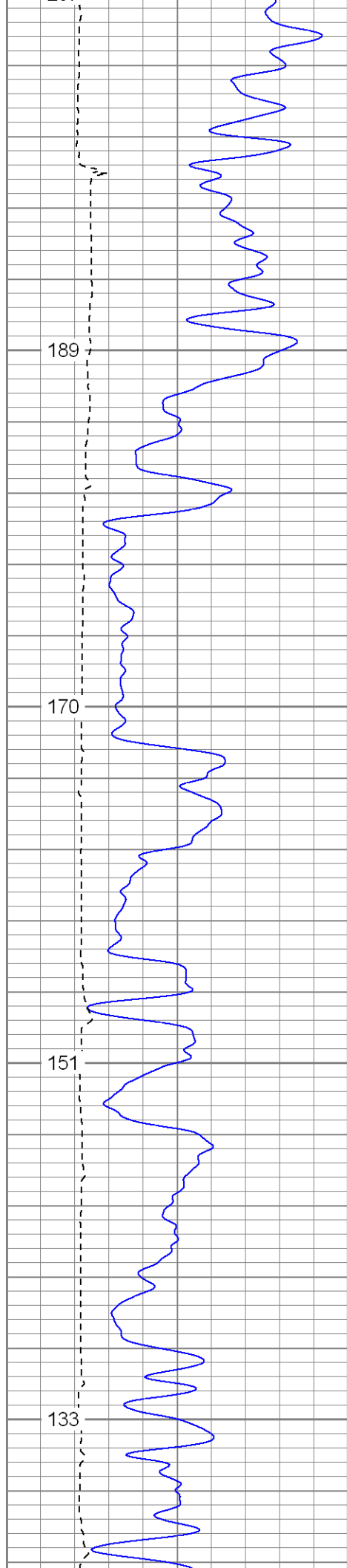
0	GR (GAPI)	200	2	RHOB (g/cc)	3
6	DCAL (in)	16	1	RHOB (g/cc)	2
TBHV (ft3)			30	DPOR (pu)	-10
			-0.5 RHOC (g/cc) 0.5		
			7000 LTEN (lb) 0		
			ABHV (ft3)		

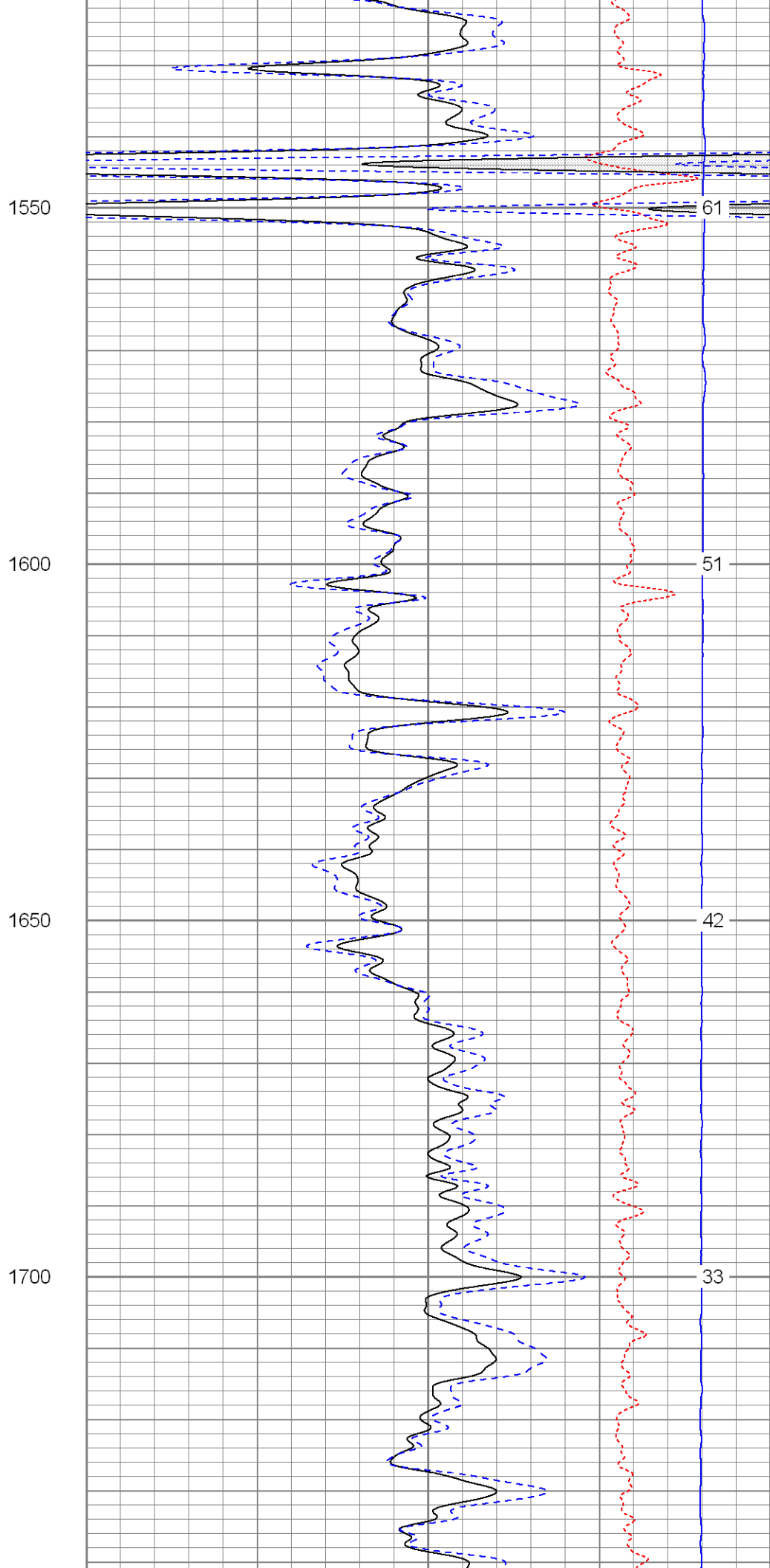
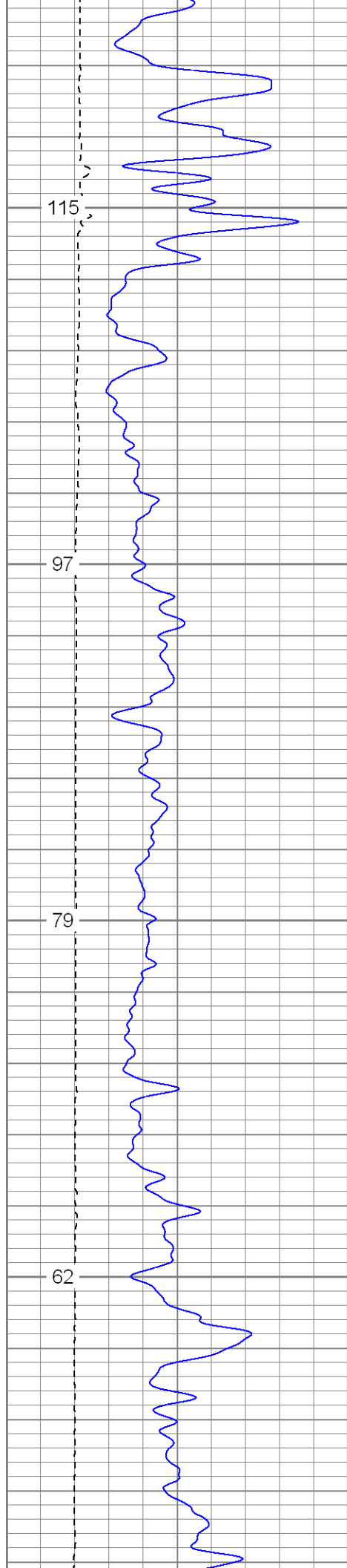


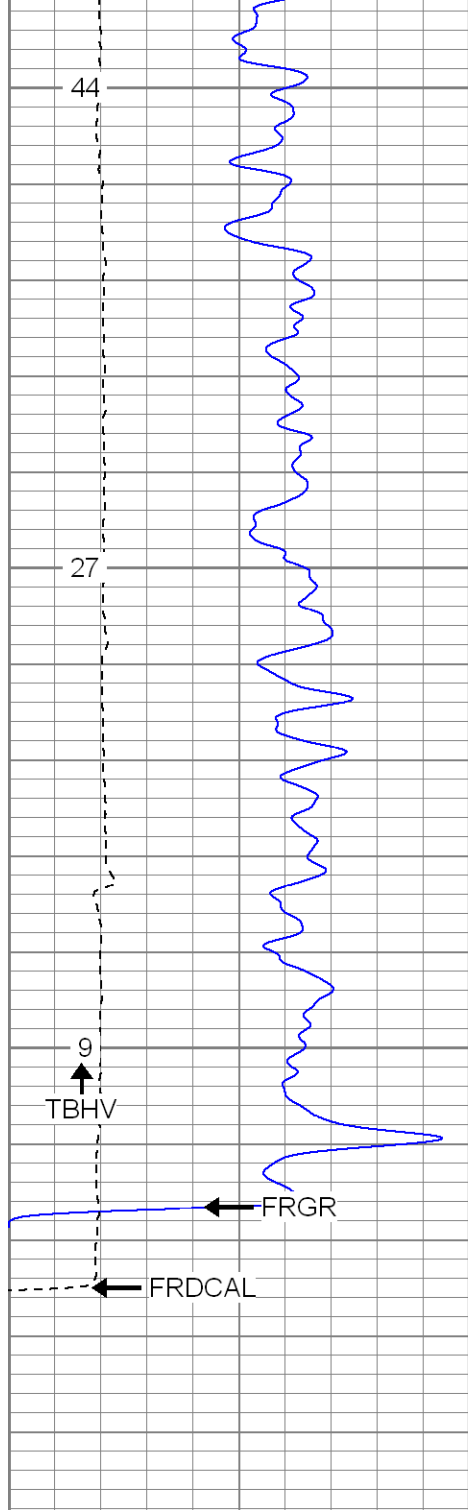




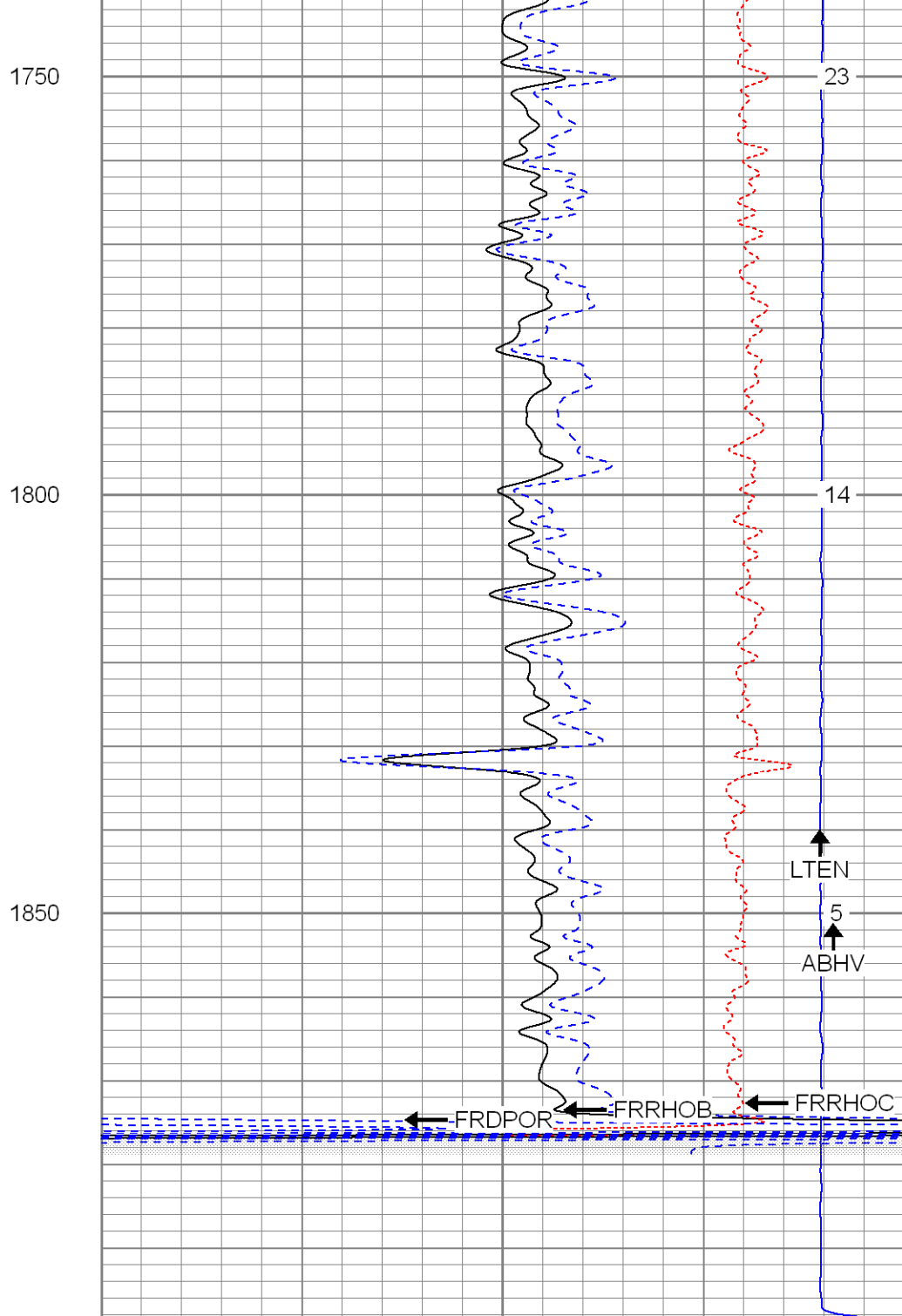








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



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



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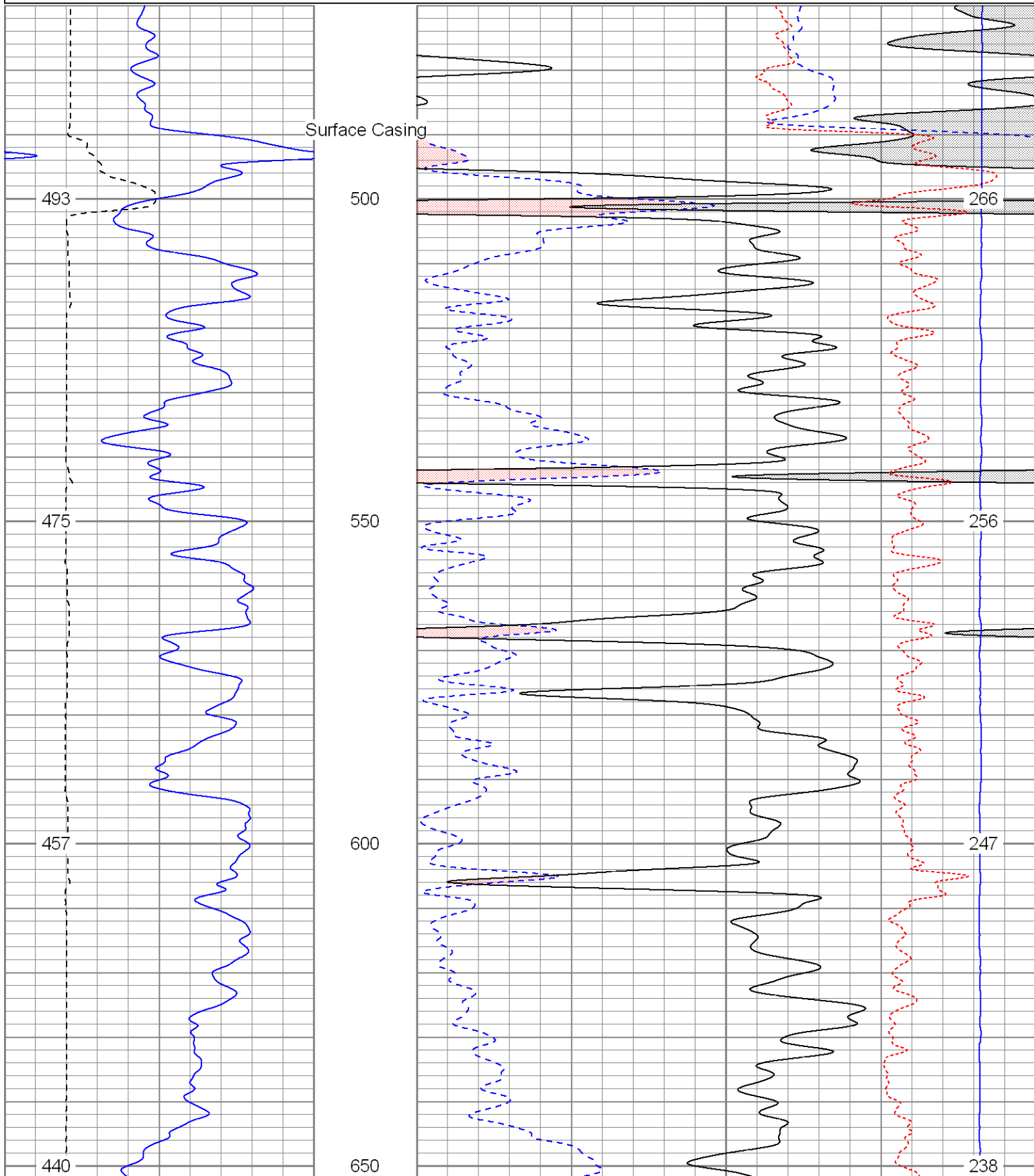
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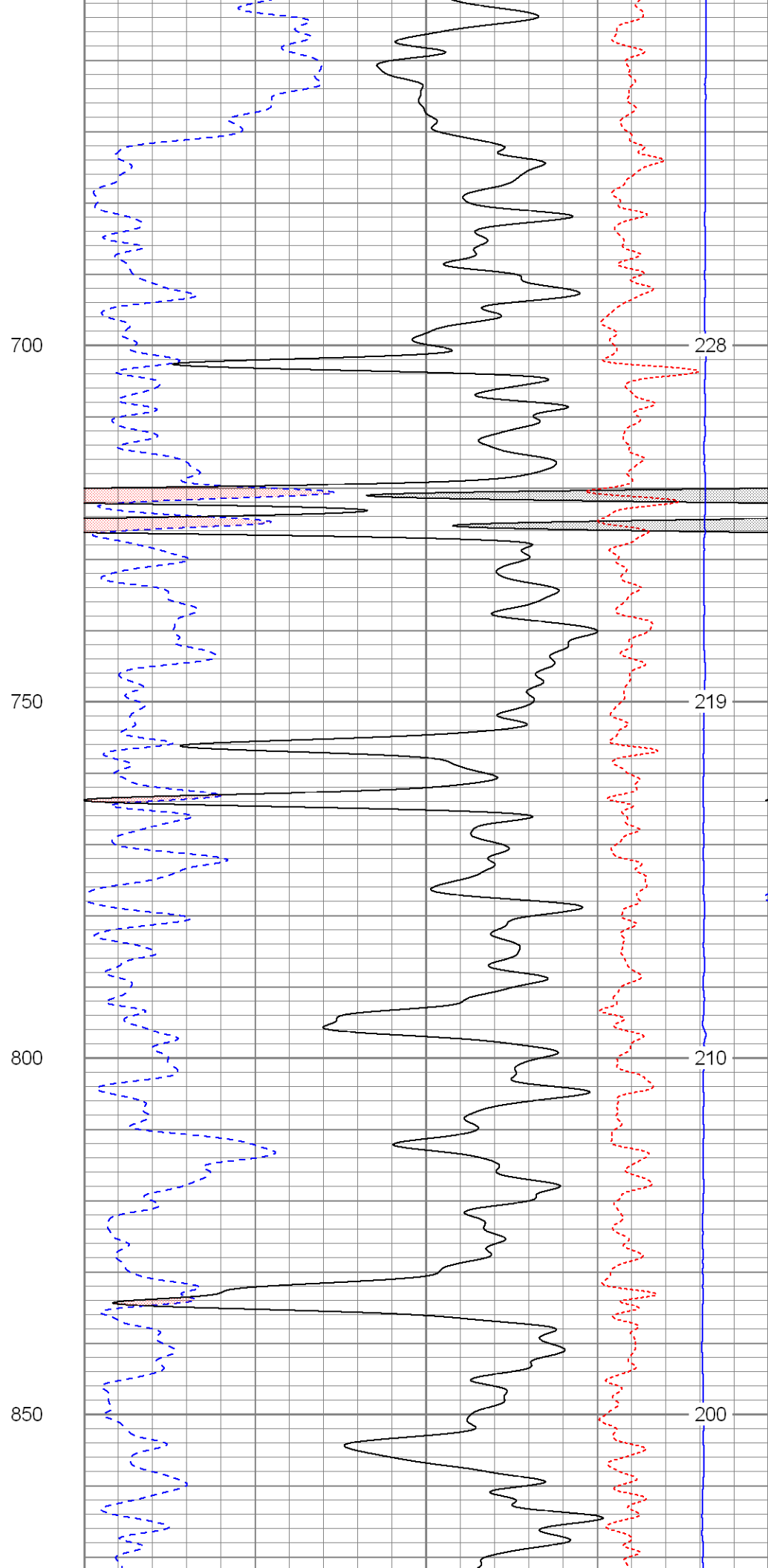
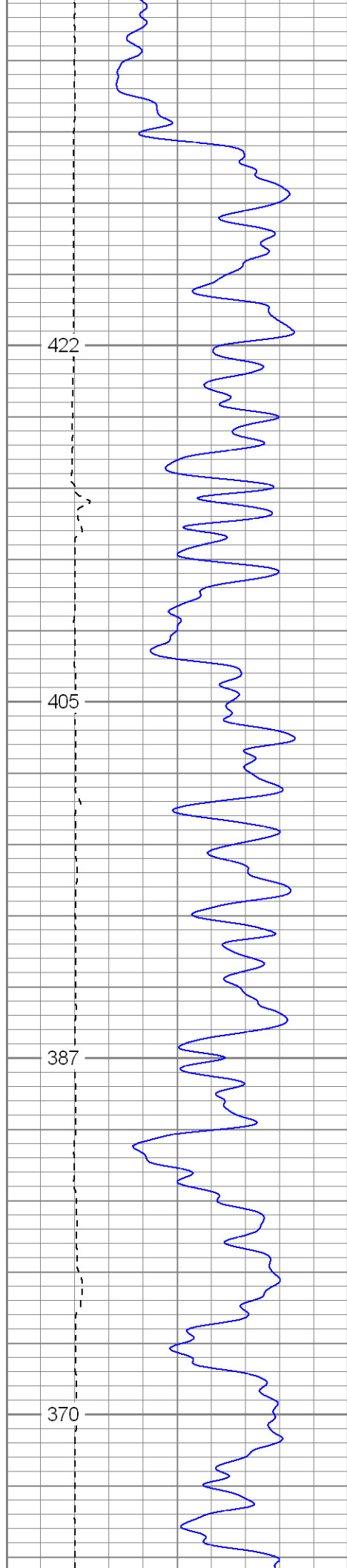
Main Pass

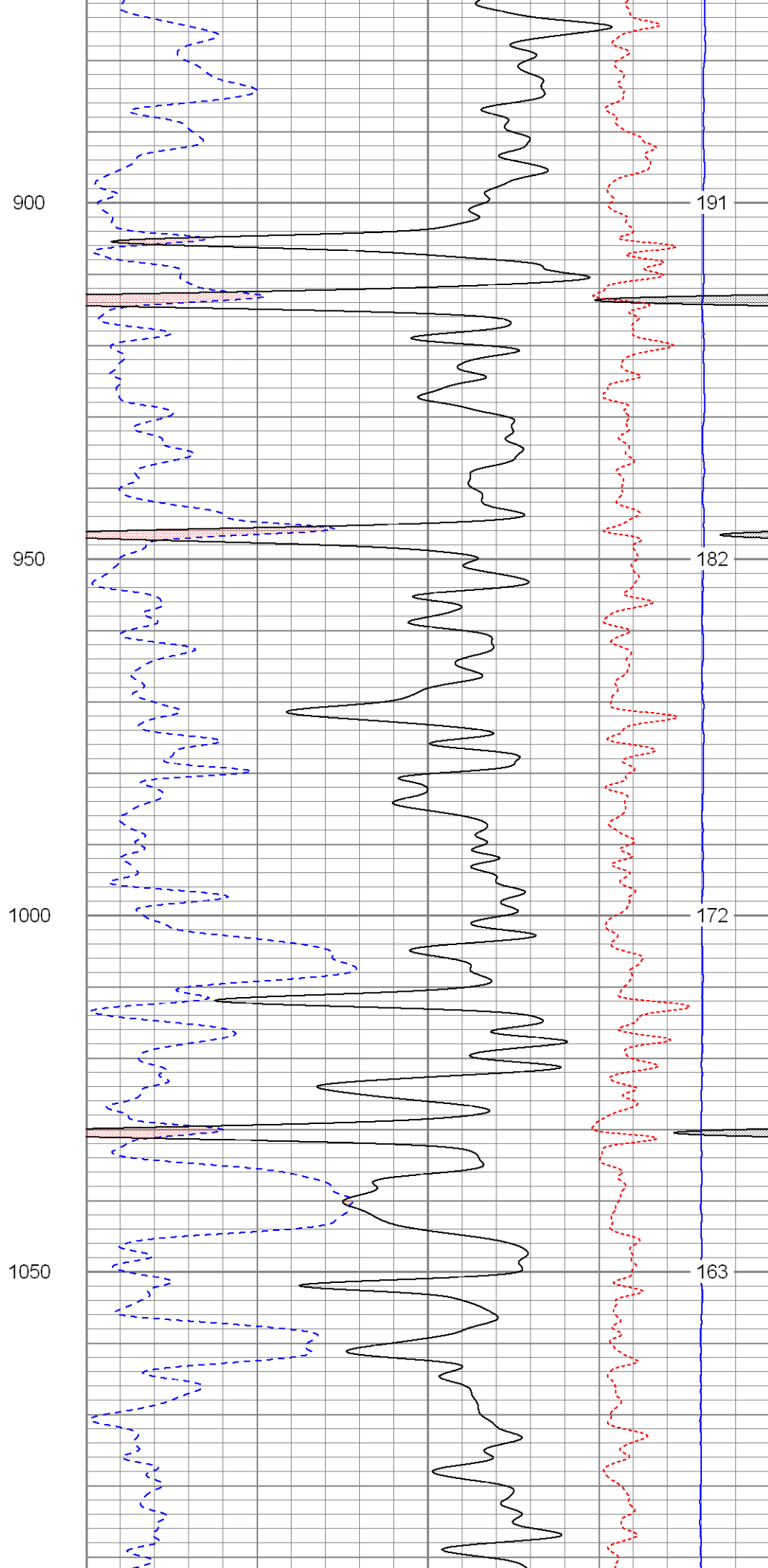
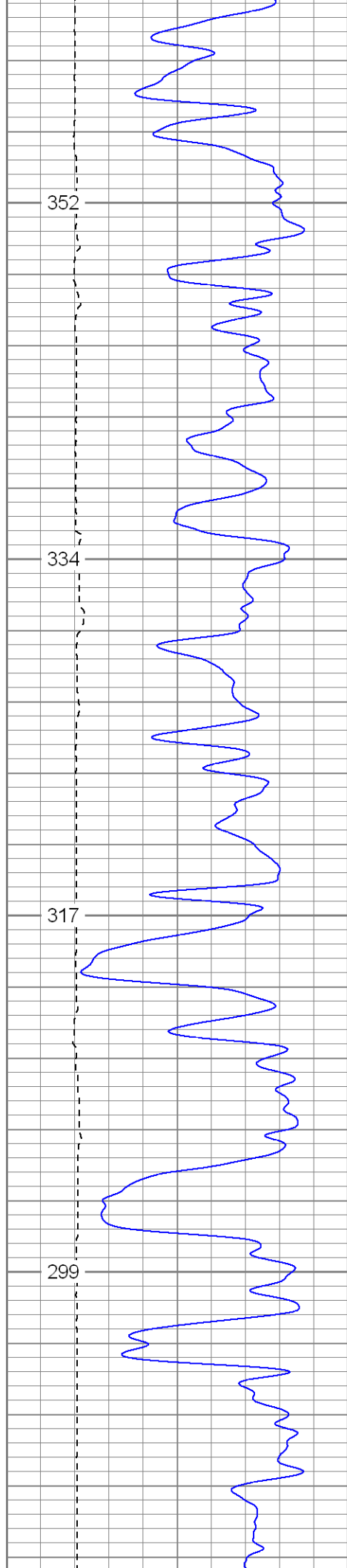
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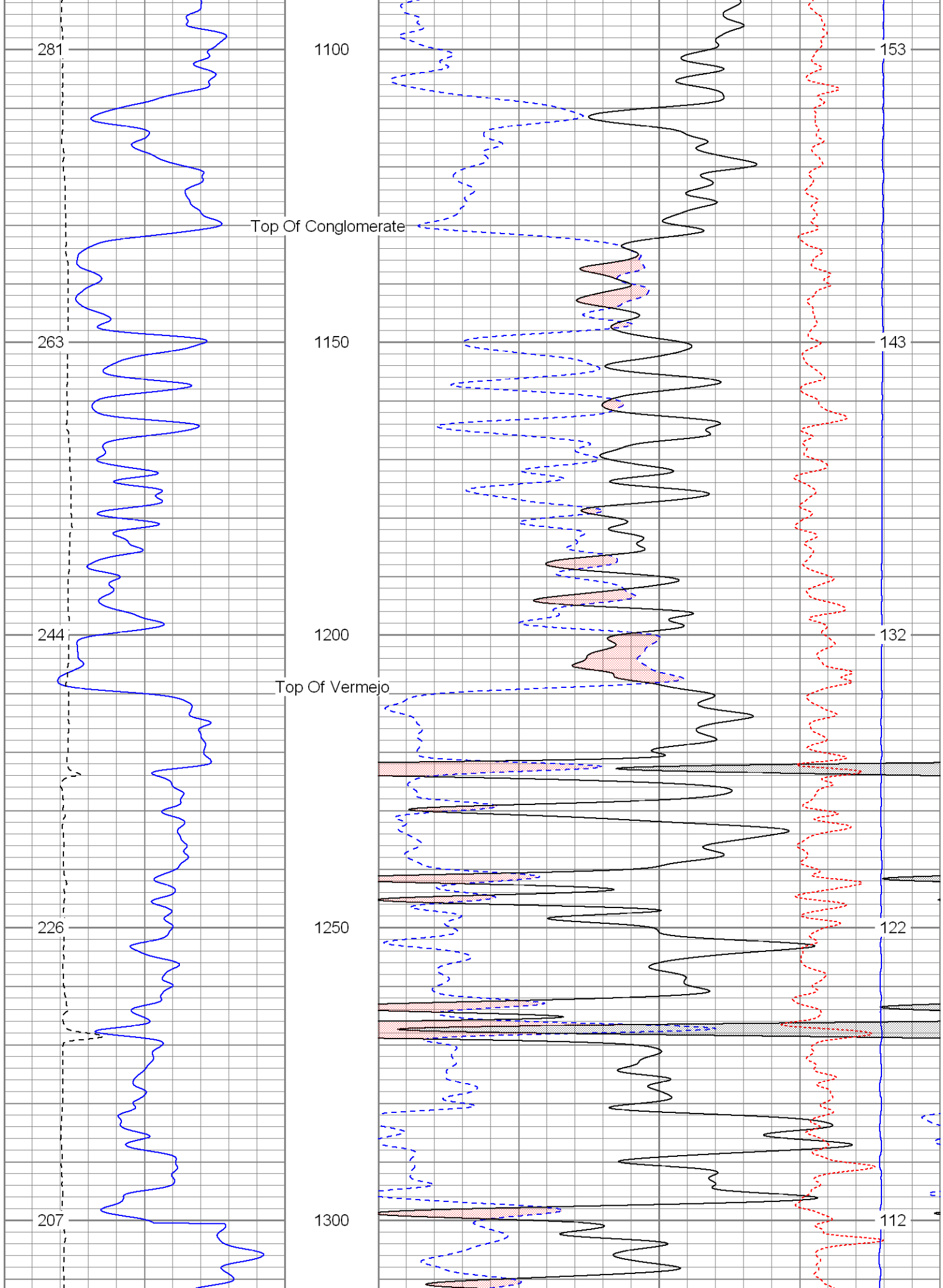
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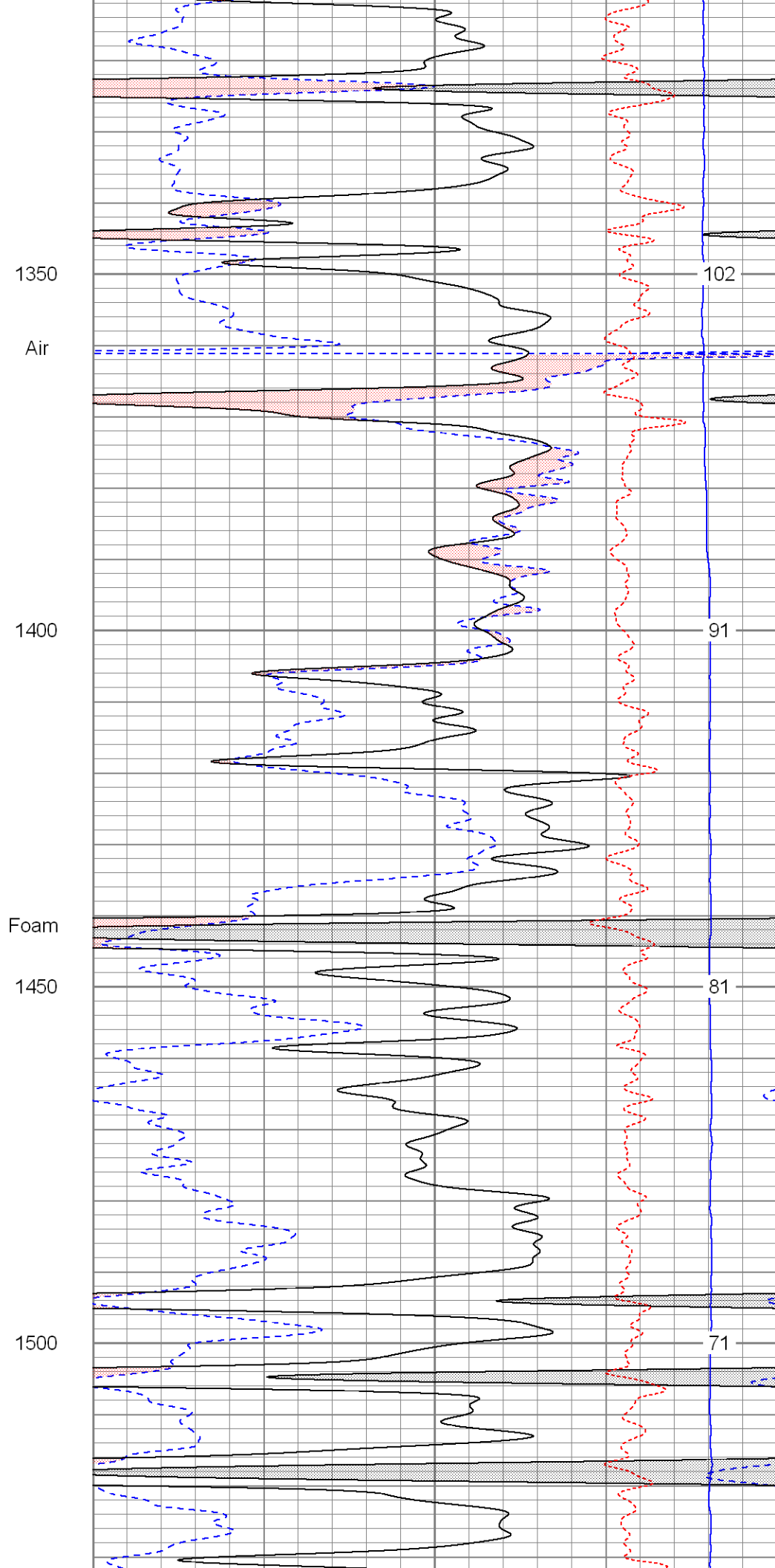
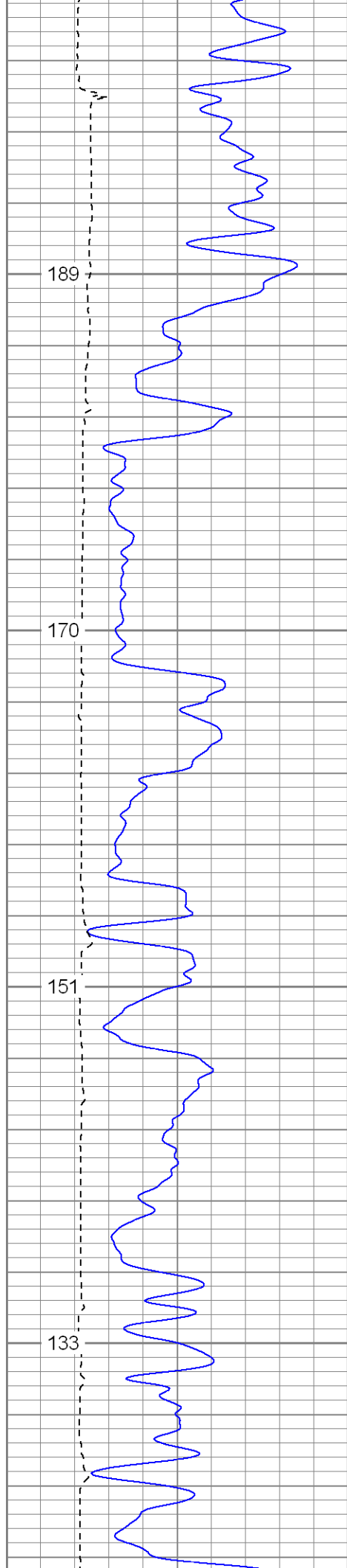
0	GR (GAPI)	200	30	NPOR (pu)	-10	
6	DCAL (in)	16	30	DPOR (pu)	-10	
TBHV (ft3)				-0.5	RHOC (g/cc)	0.5
				7000	LTEN (lb)	0
						ABHV (ft3)

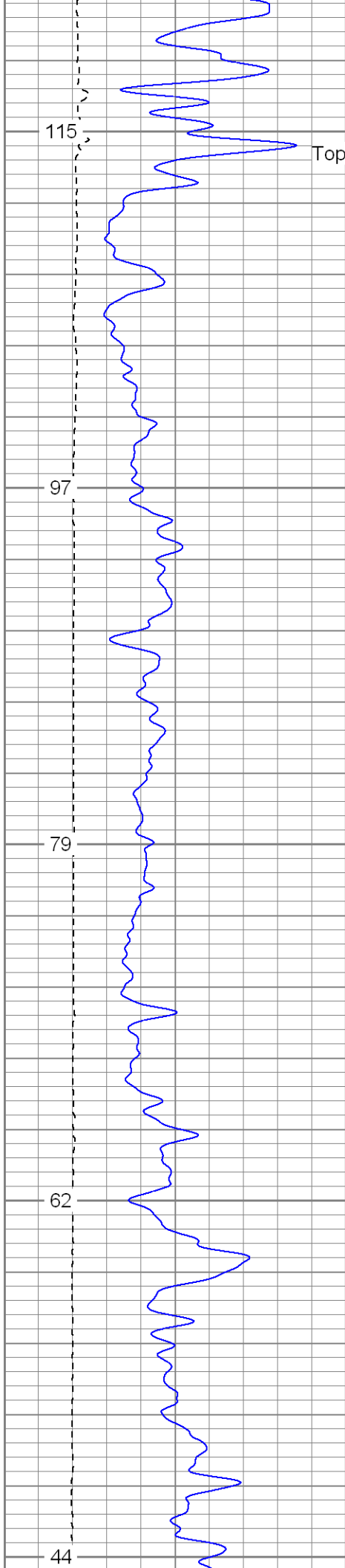




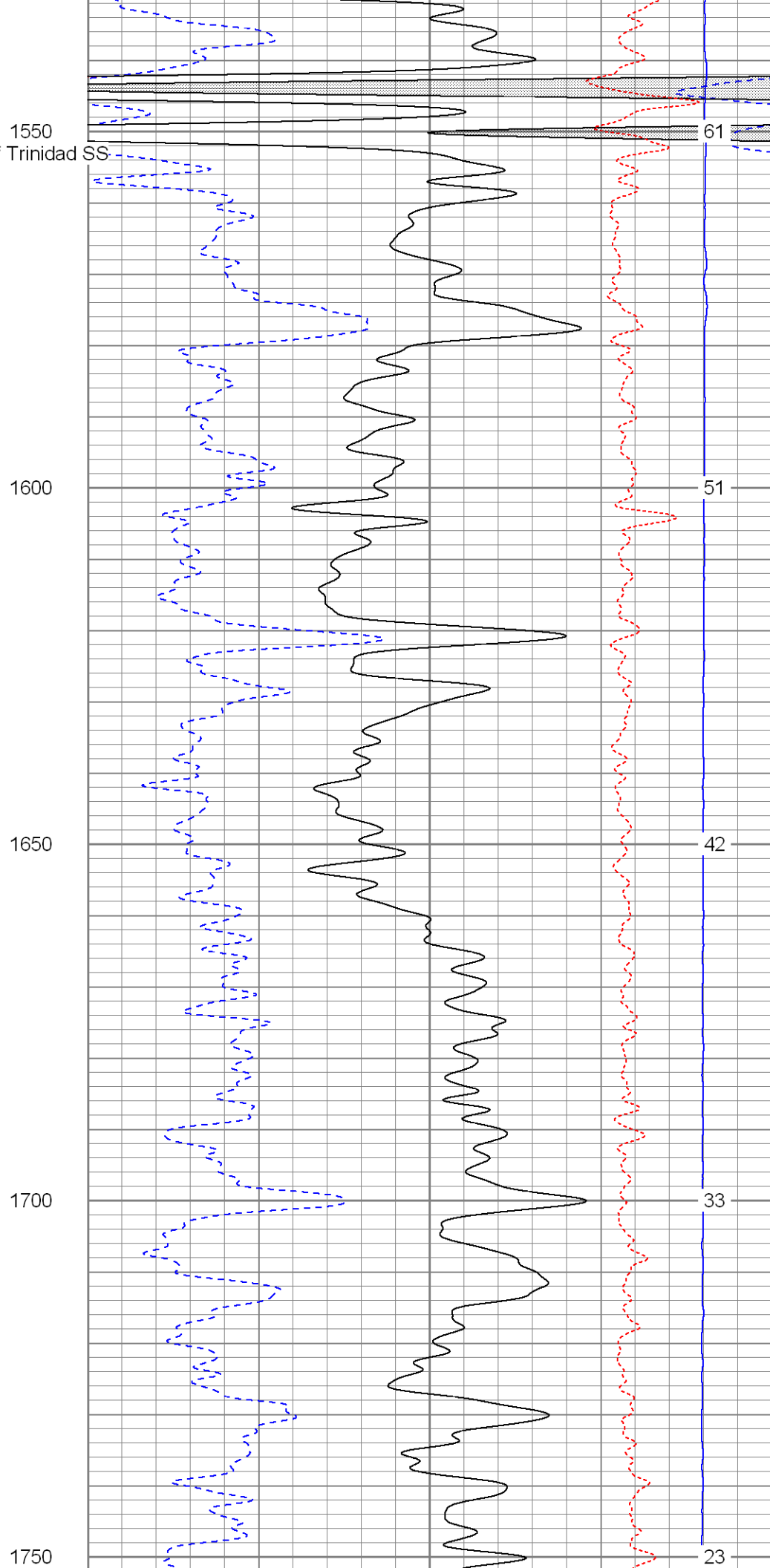


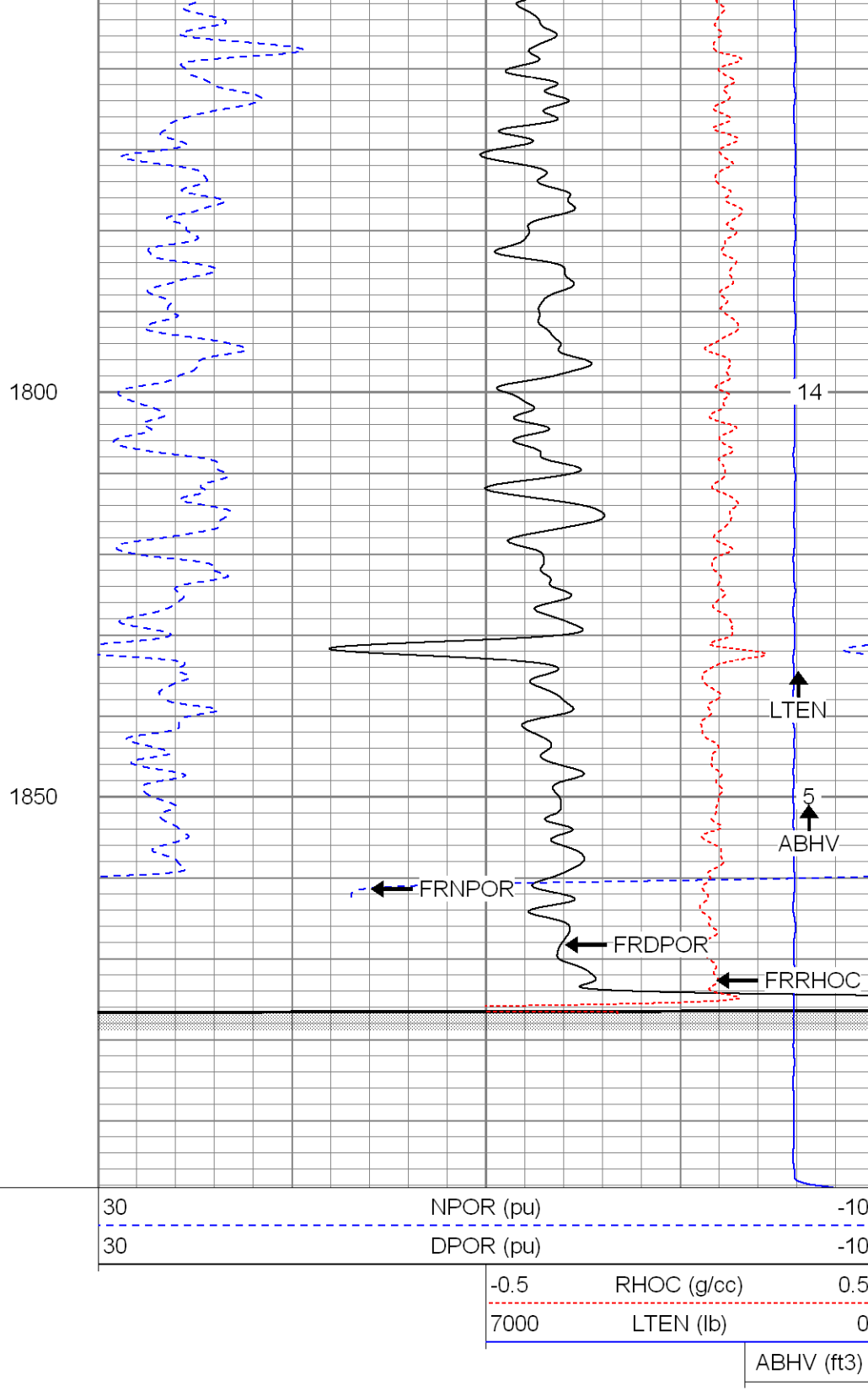
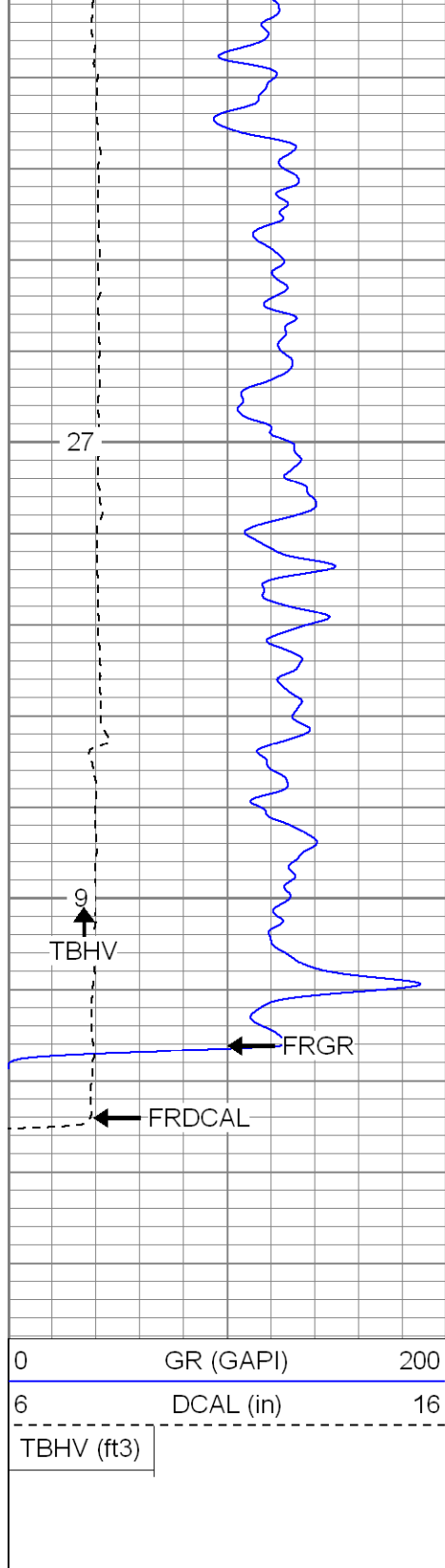






1550
Top Of Trinidad SS





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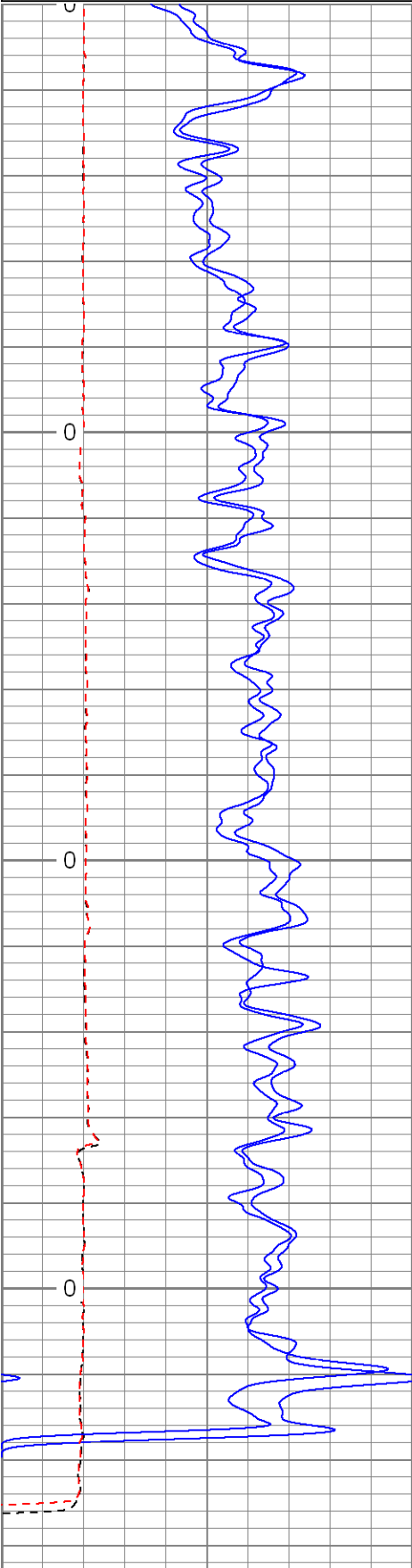
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Repeat Pass

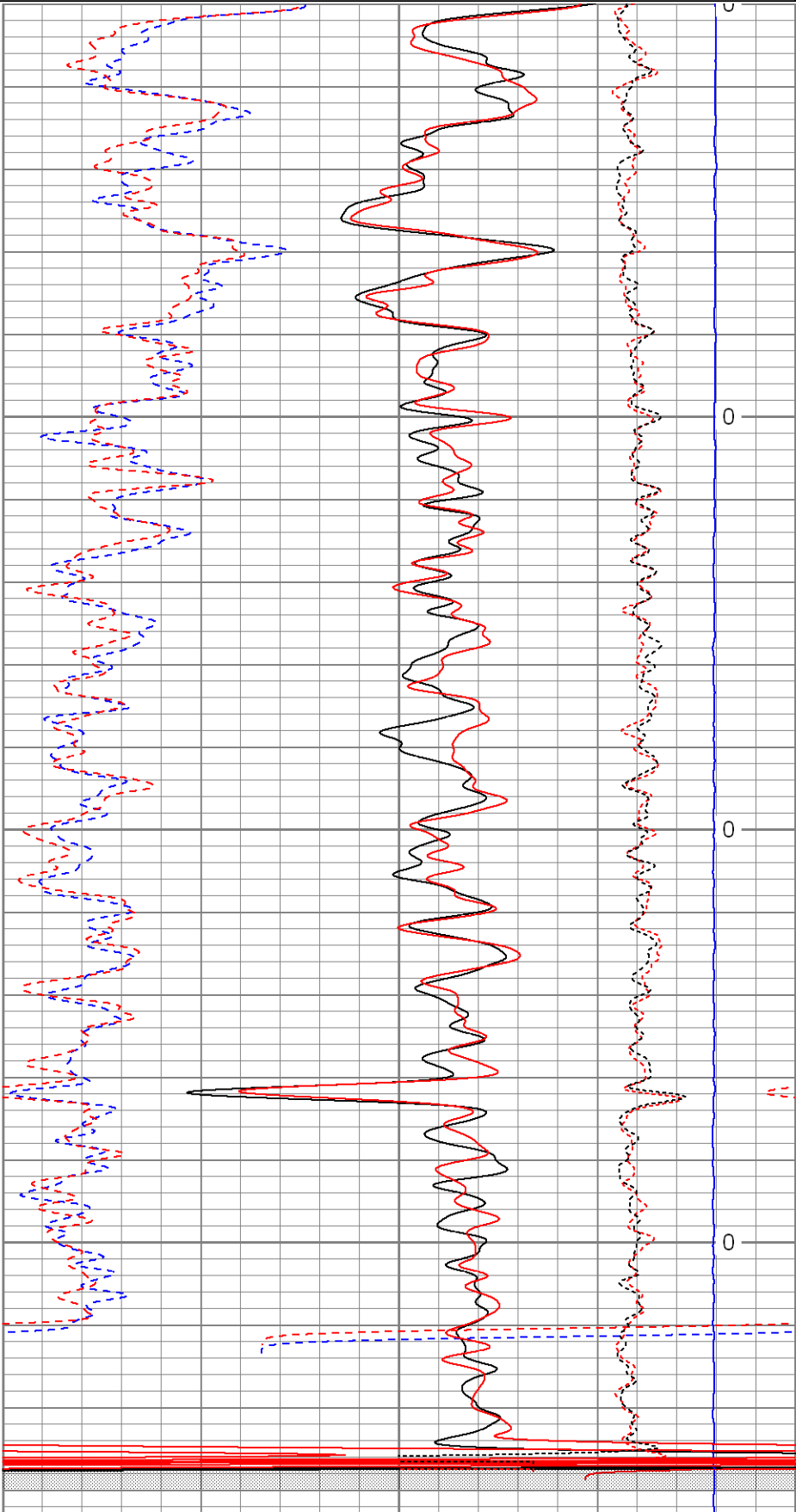
Database File: xtone2514.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Thu Jun 12 13:04:15 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240



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



NP GR (pu)		
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
ABHV (ft3)		



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



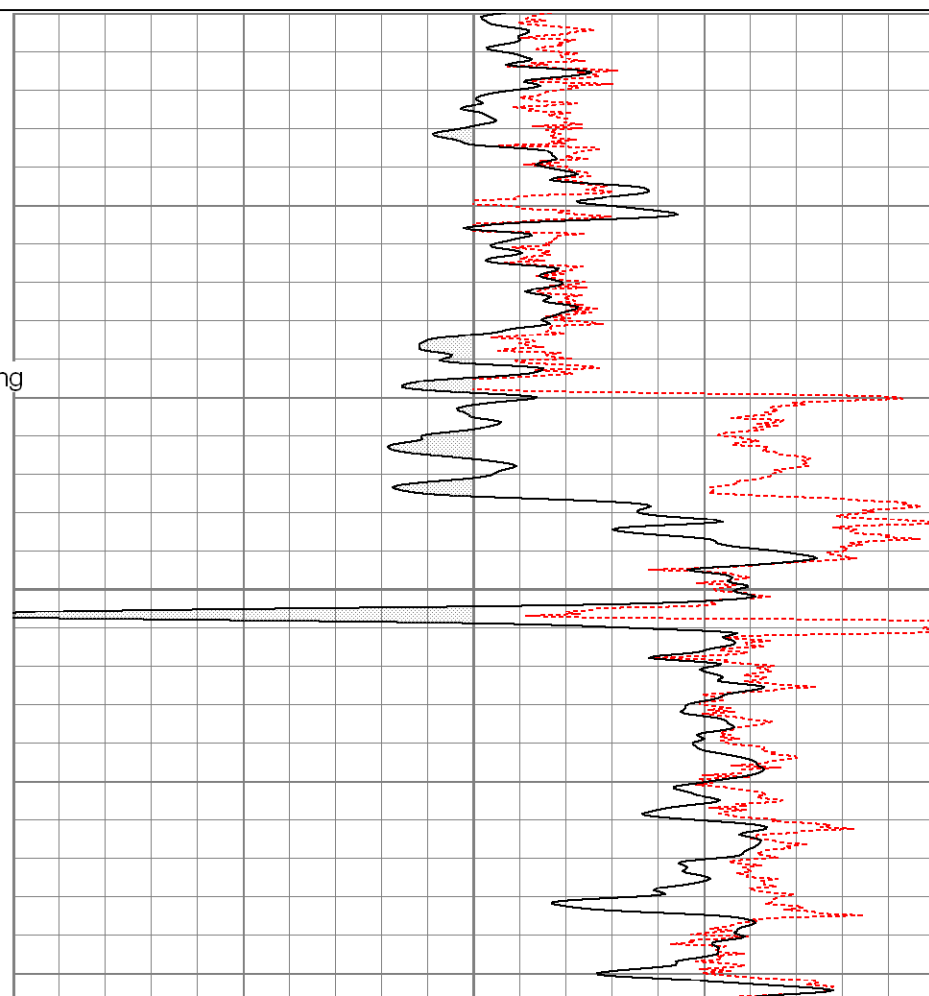
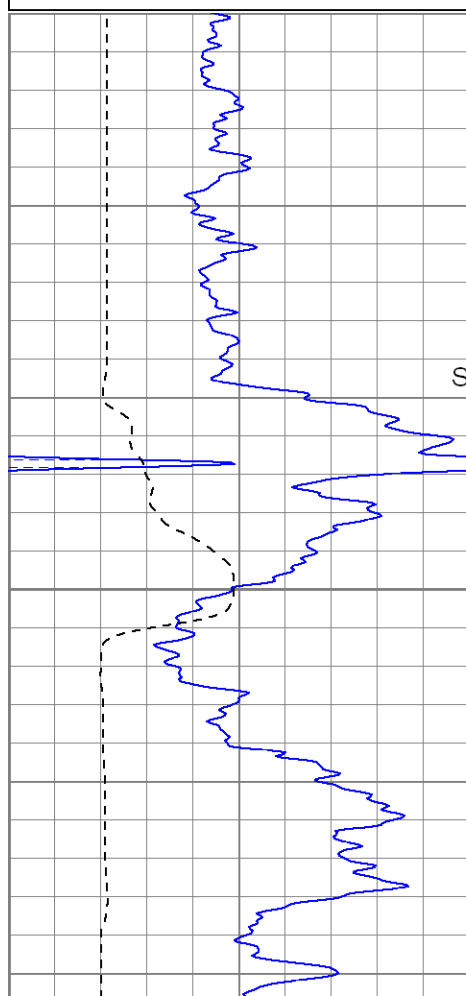
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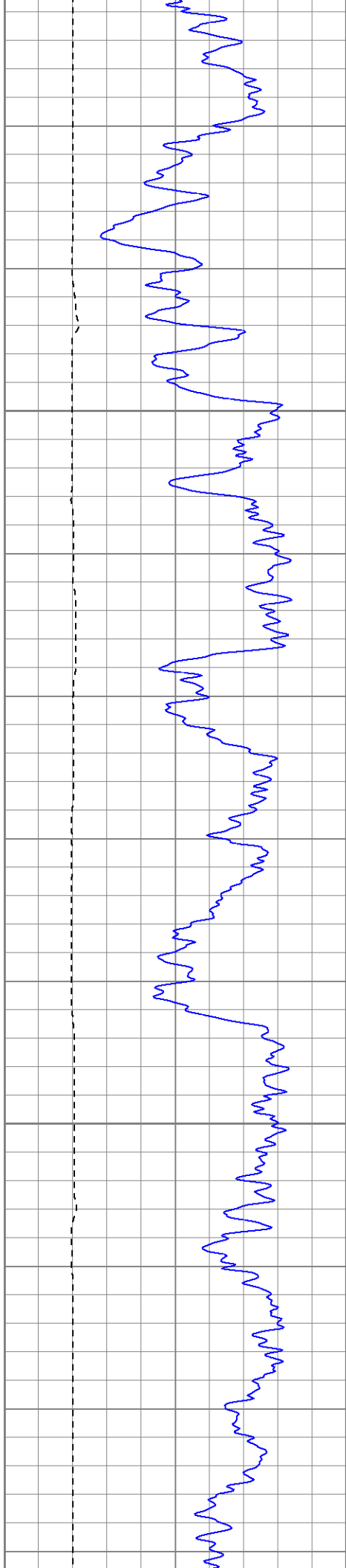
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High Resolution Pass

Database File: xtone2514.db
Dataset Pathname: pass3.2
Presentation Format: cdlhr
Dataset Creation: Fri Jun 13 17:45:37 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

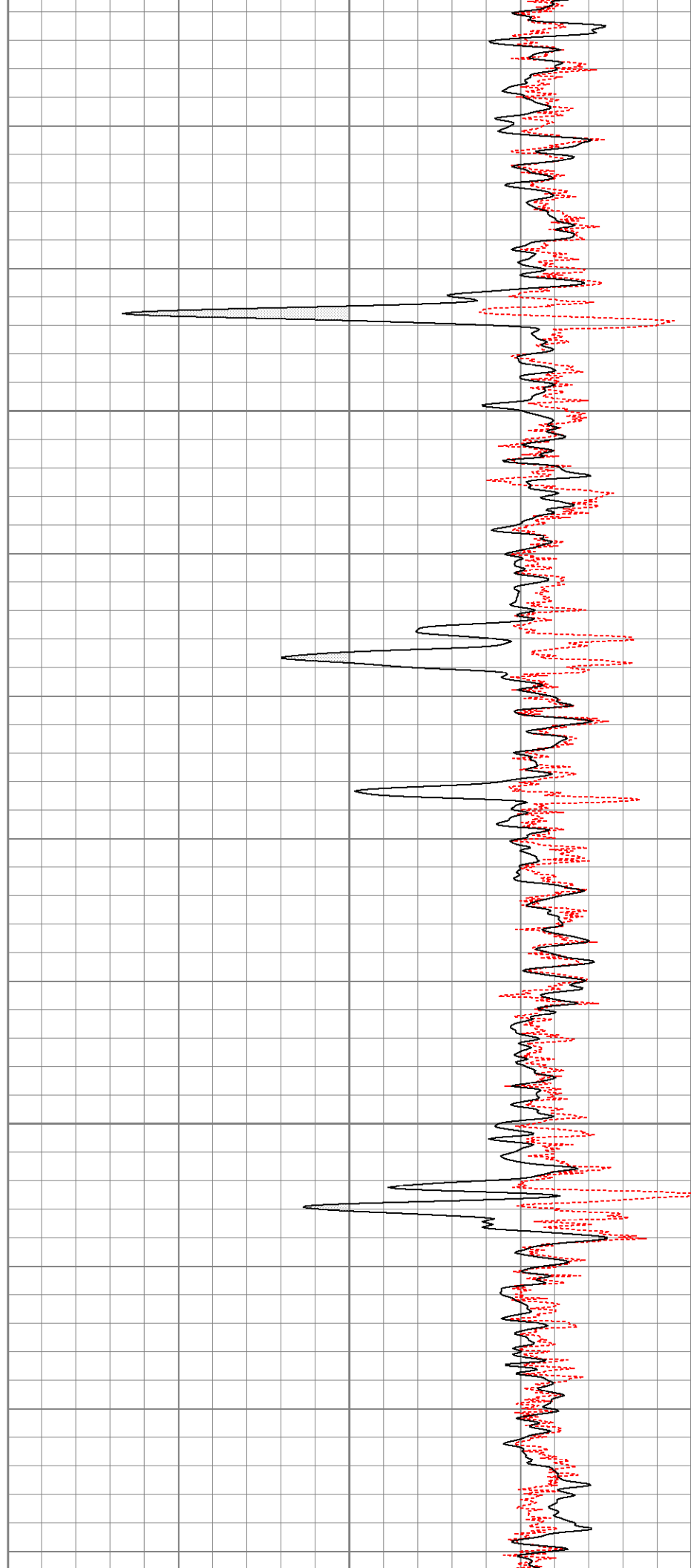
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6	DCAL (in)	16	-0.5	RHOC (g/cc)	0.5

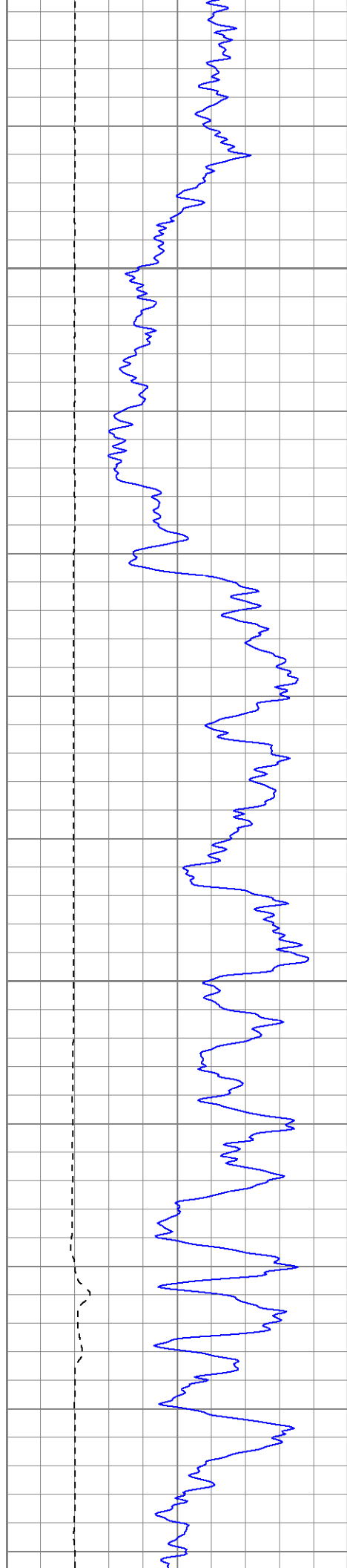




550

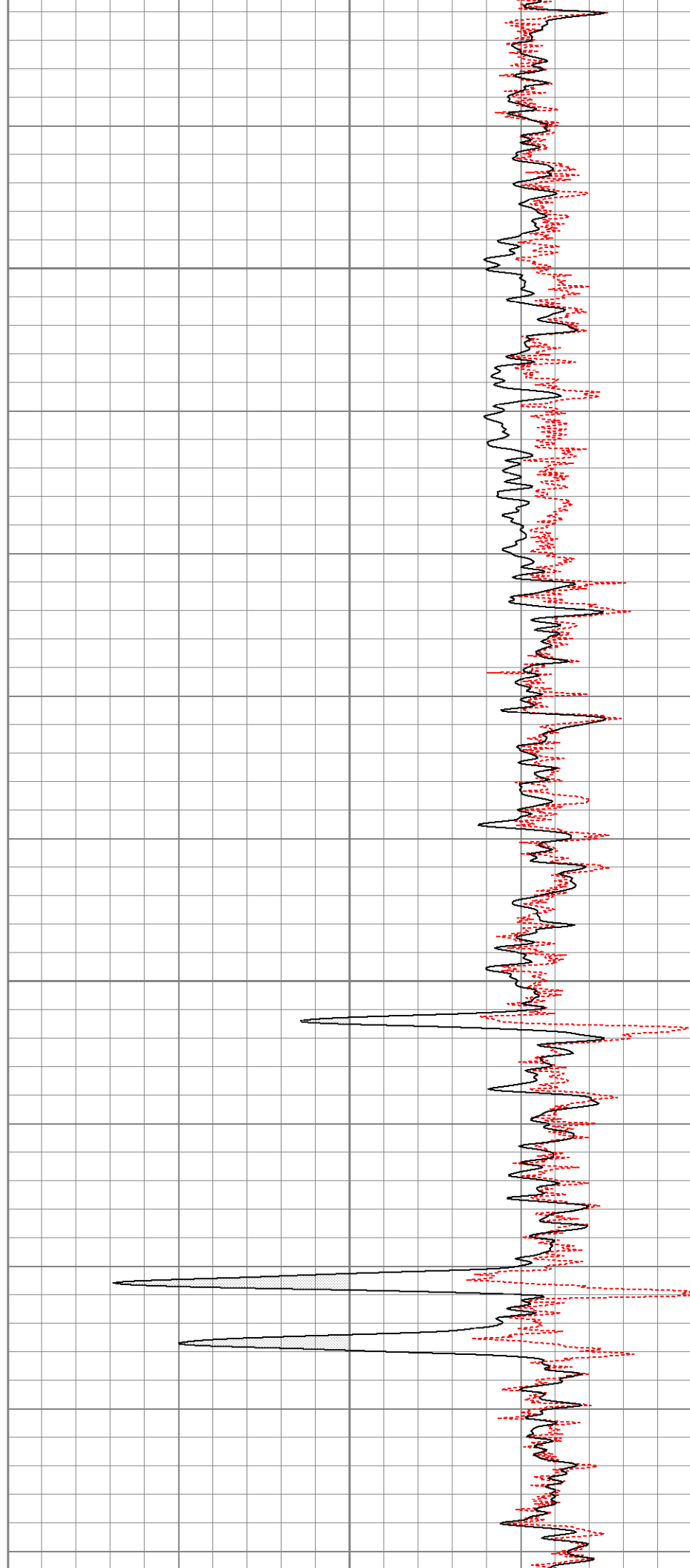
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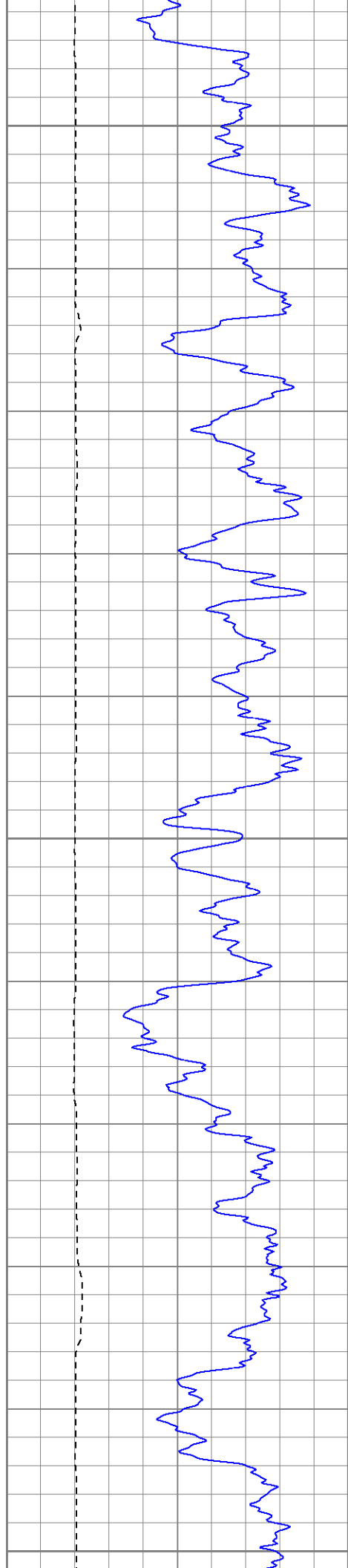




650

700

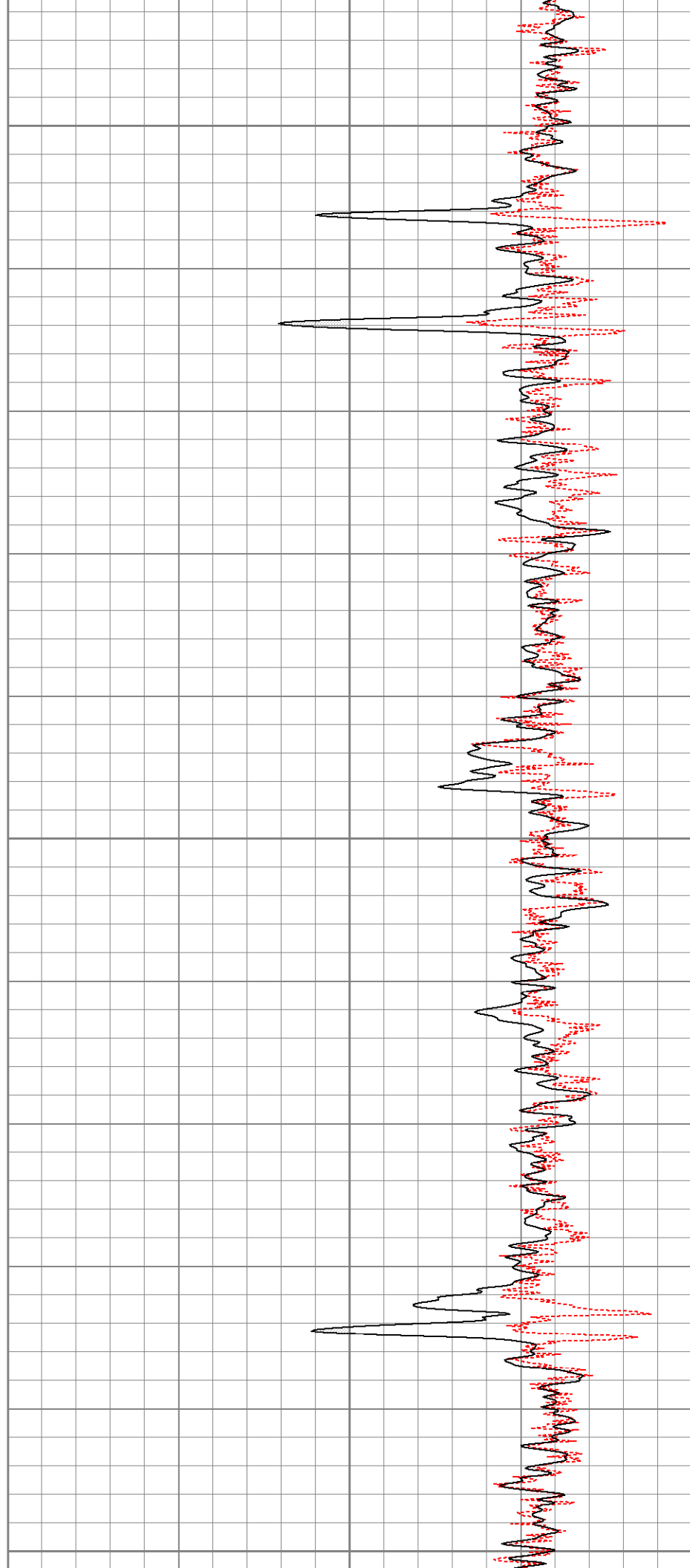


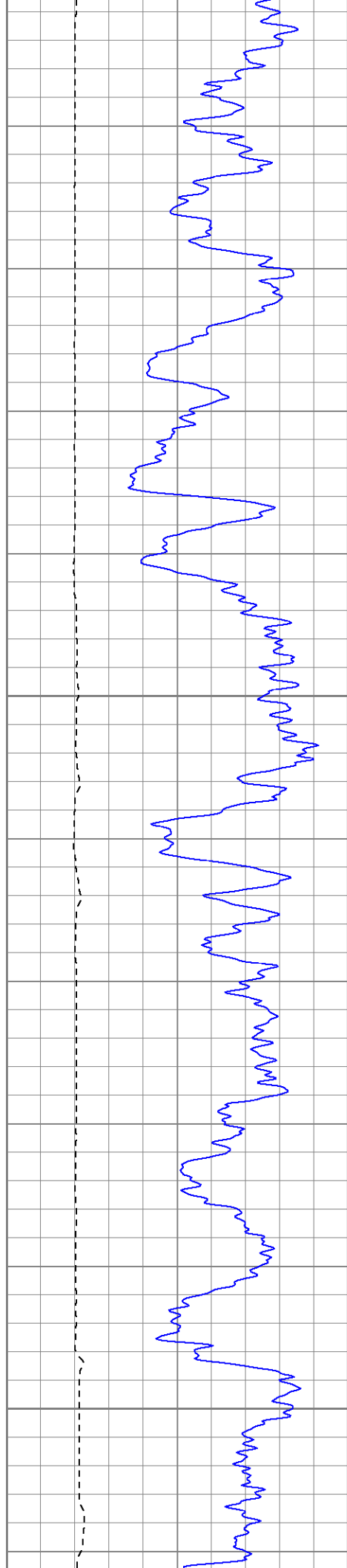


750

800

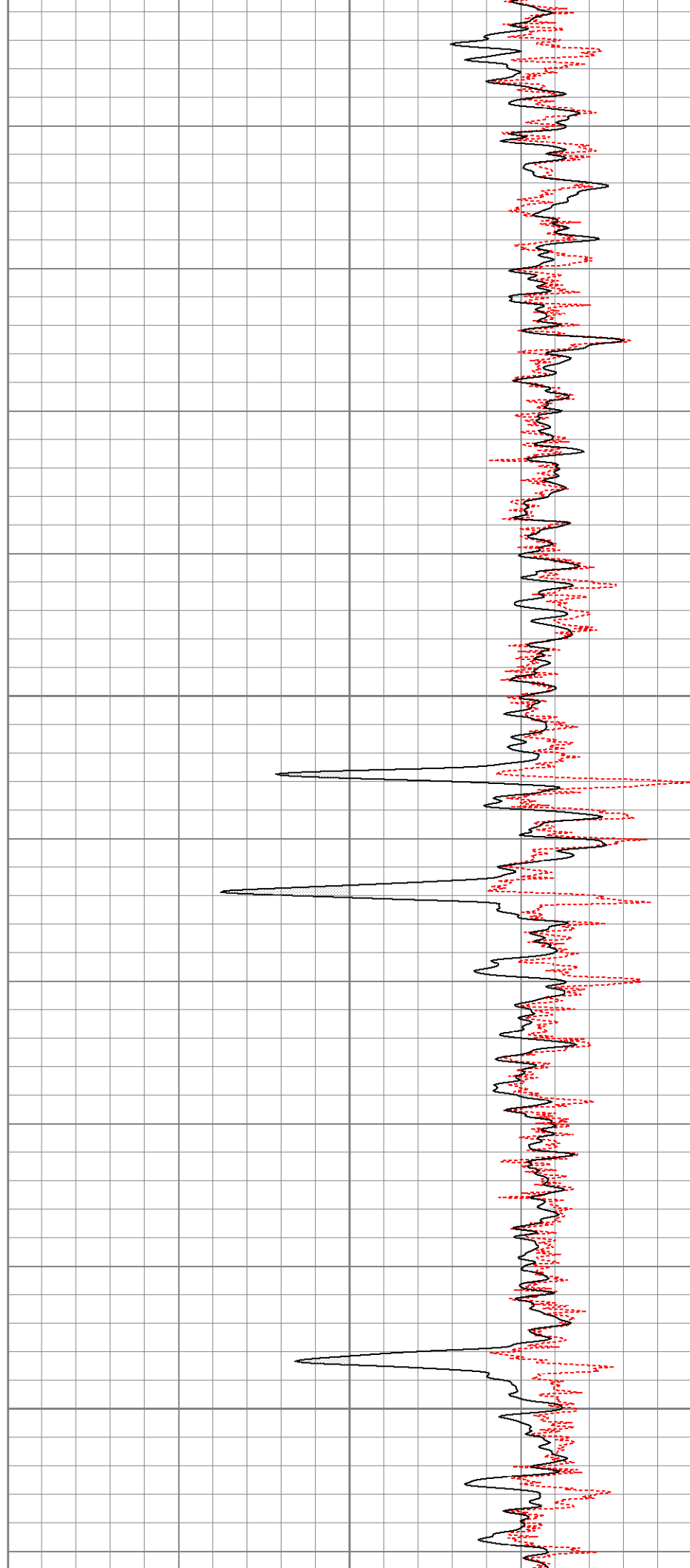
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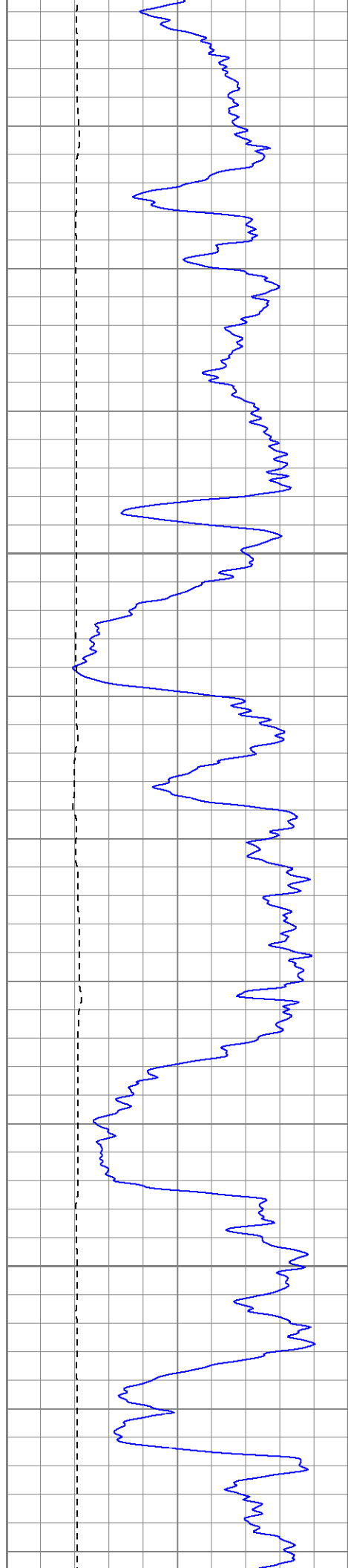




900

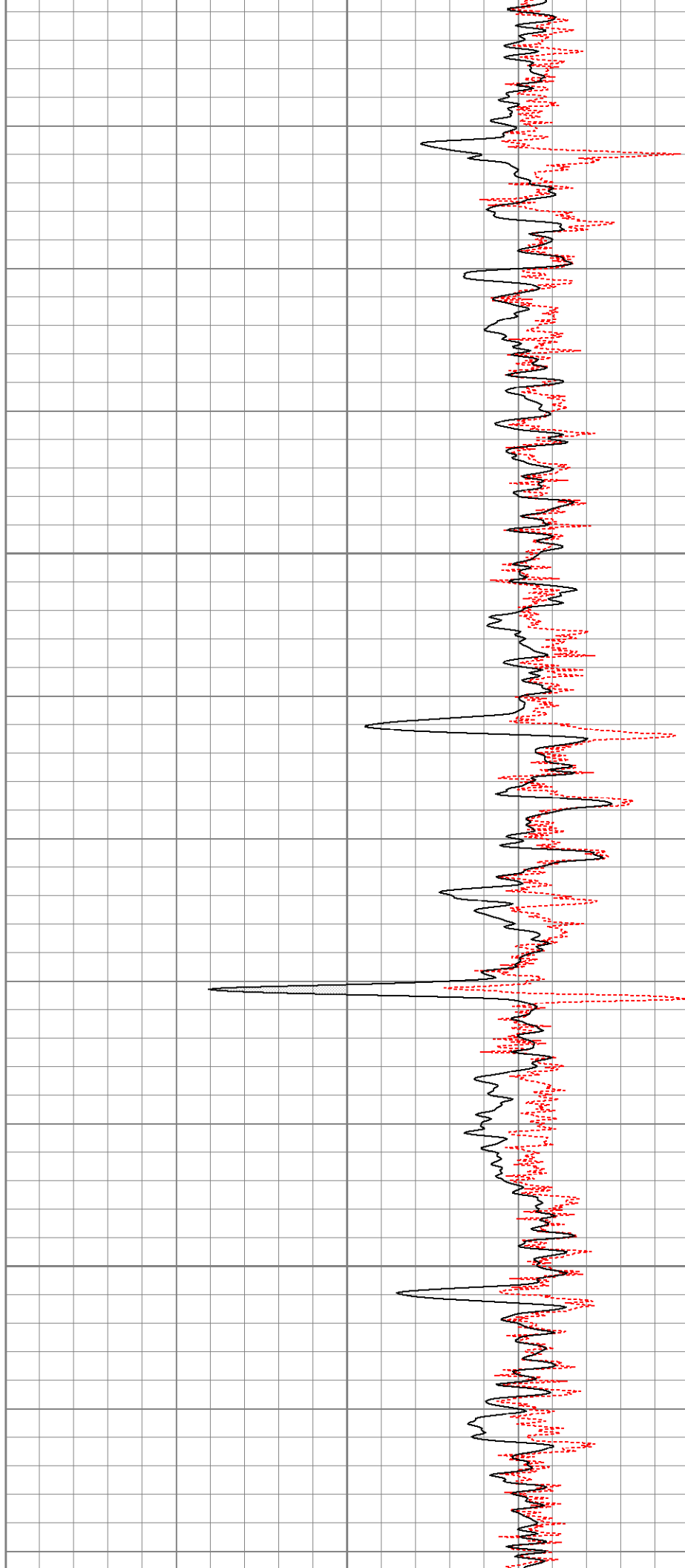
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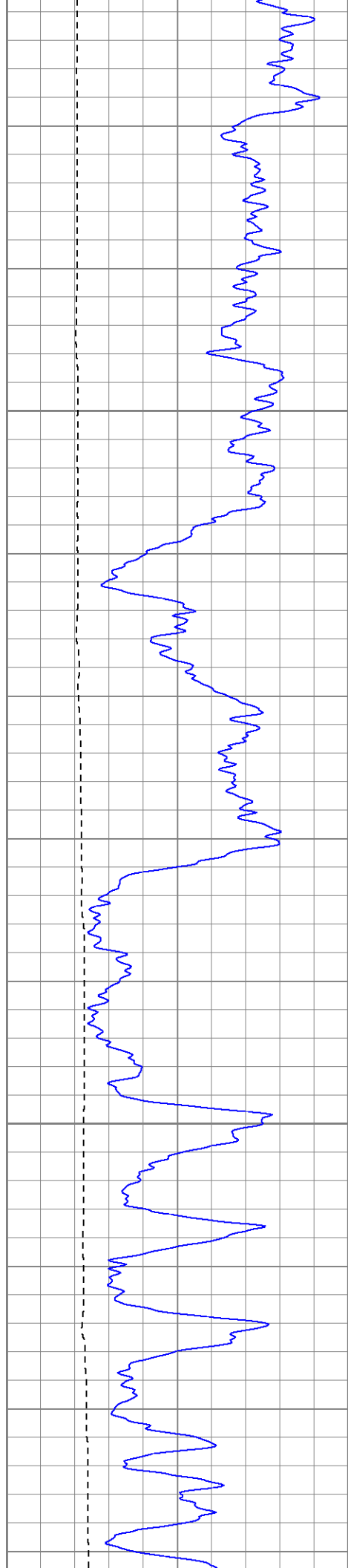




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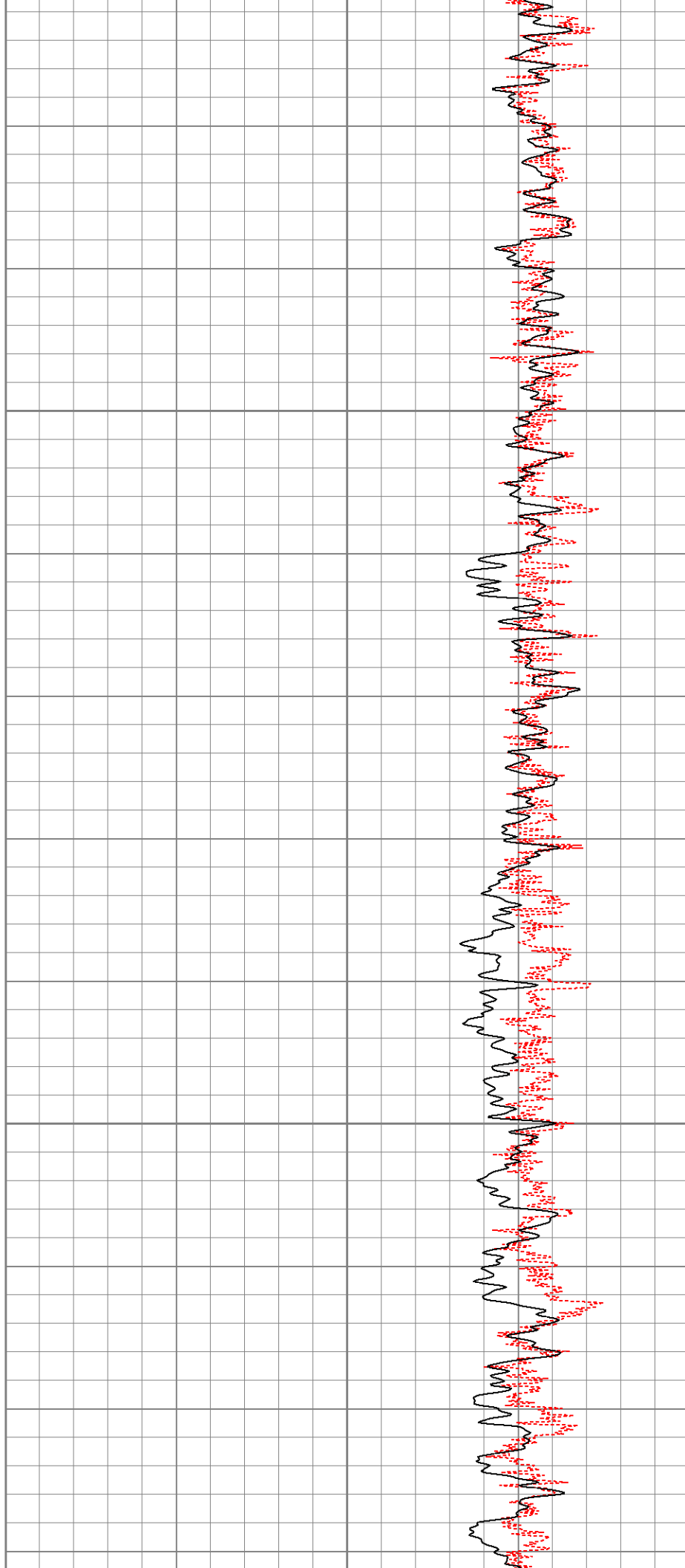
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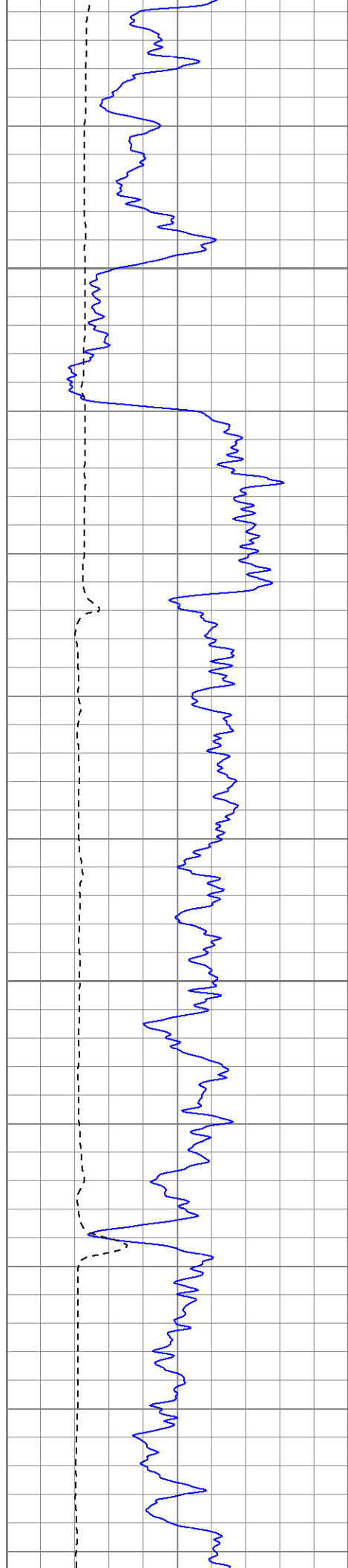




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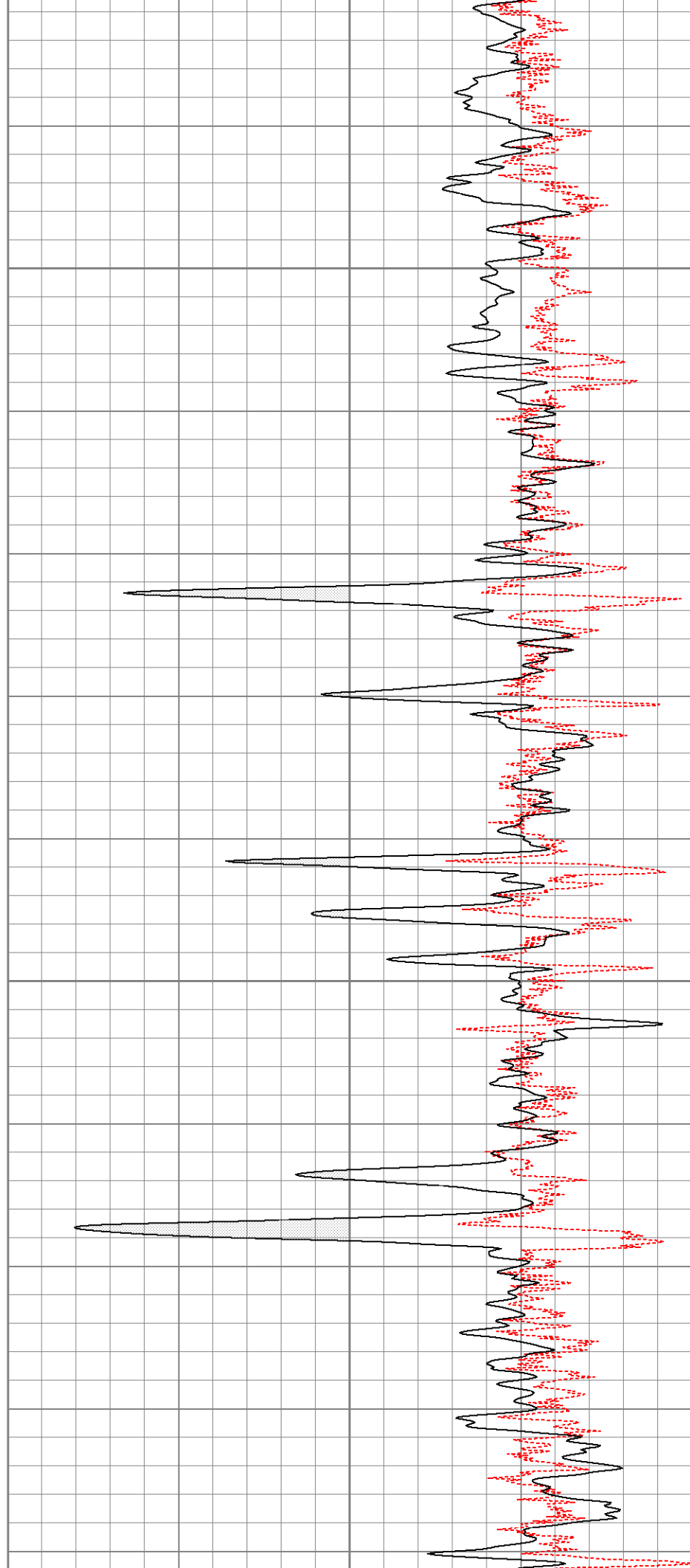
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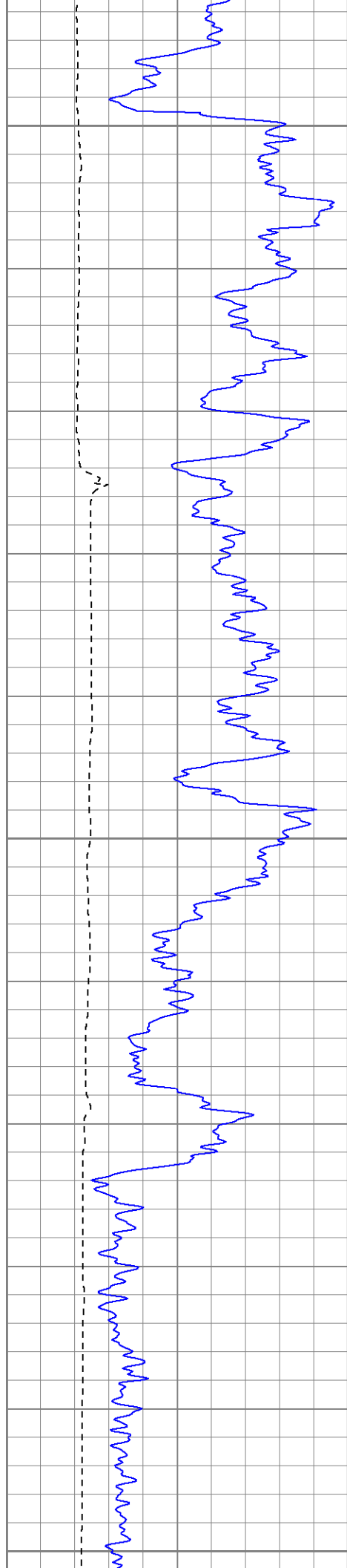




1200

1250

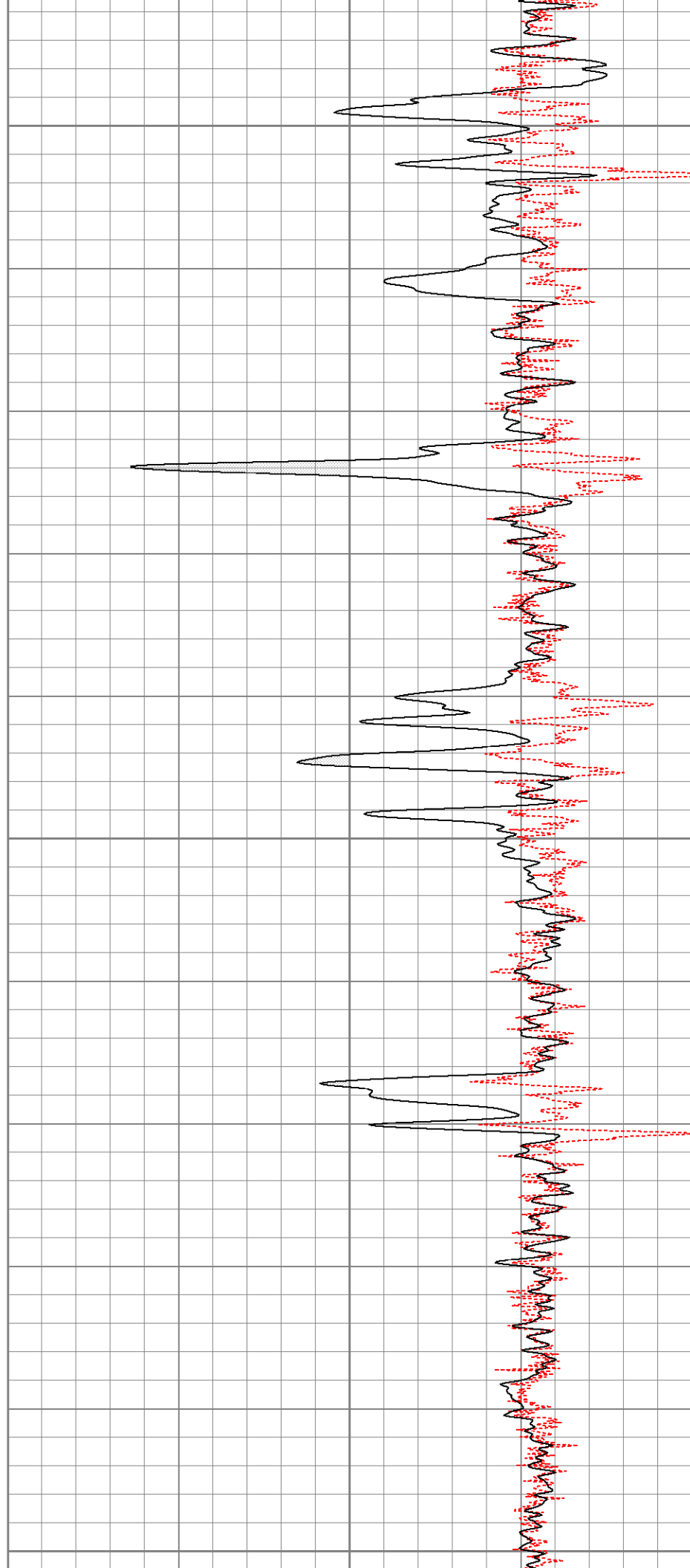


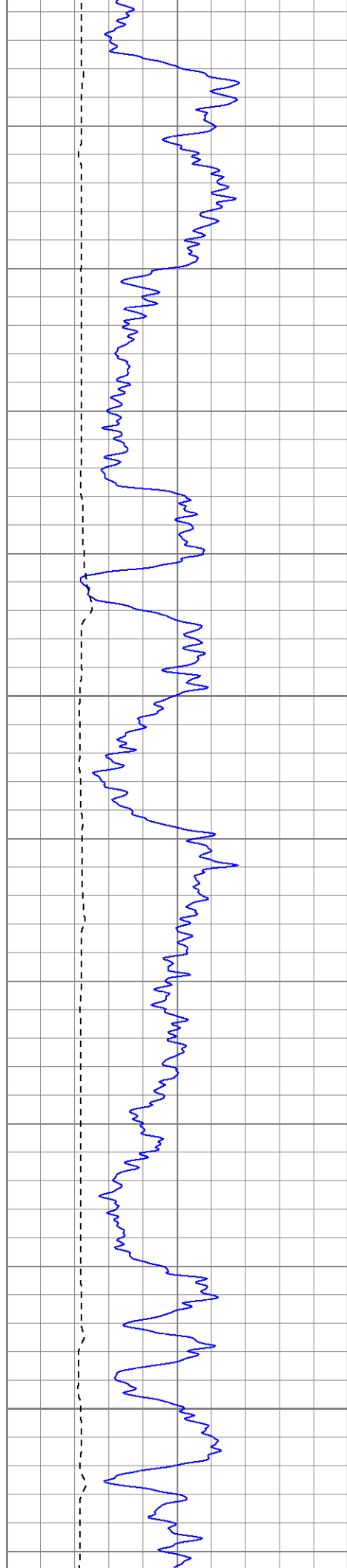


1300

1350

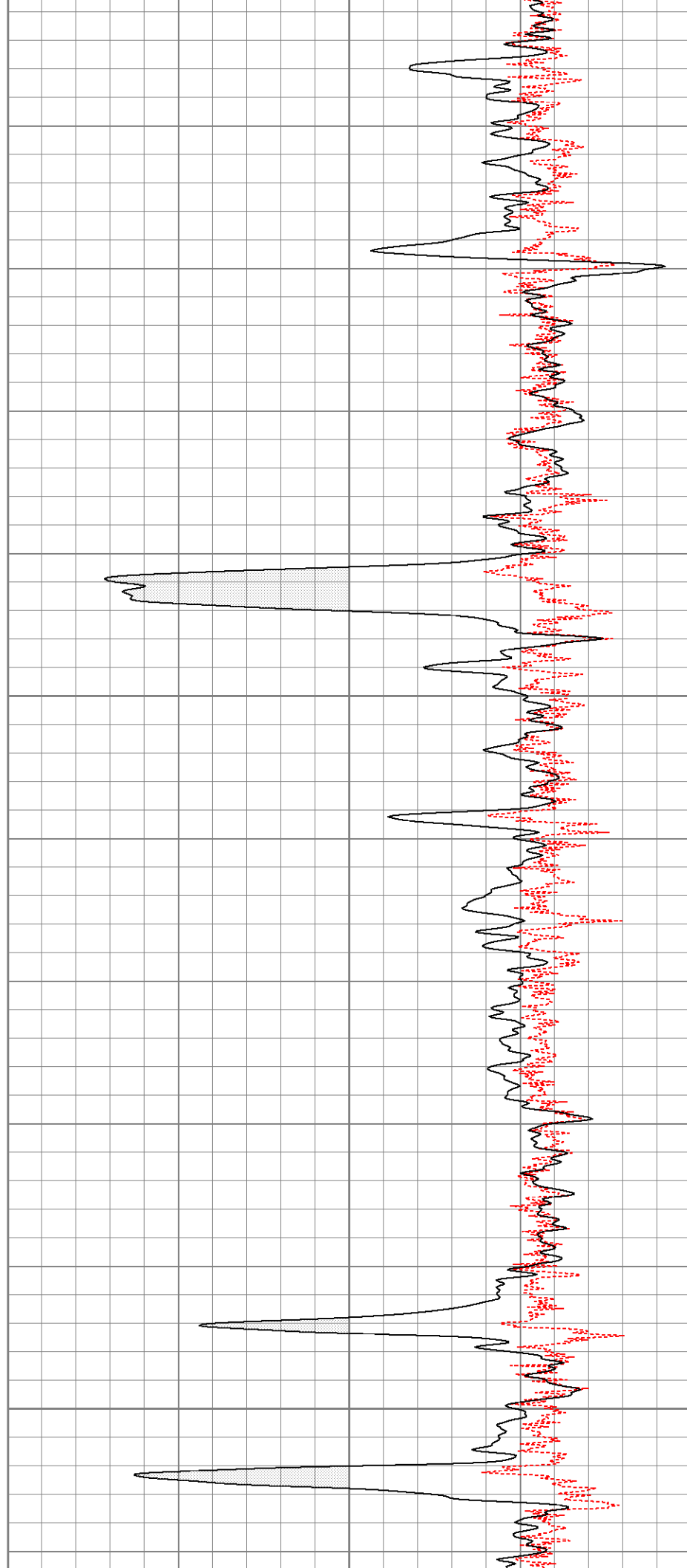
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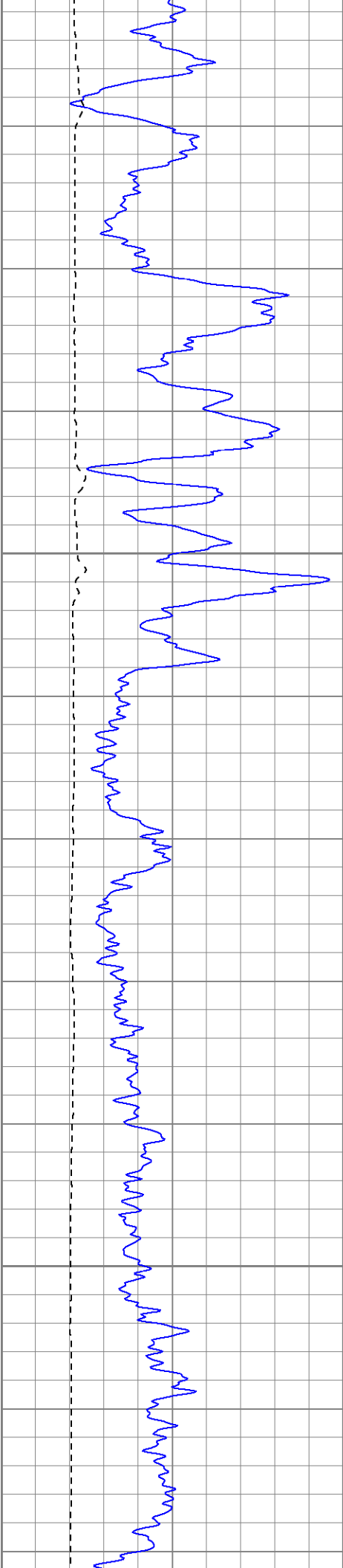




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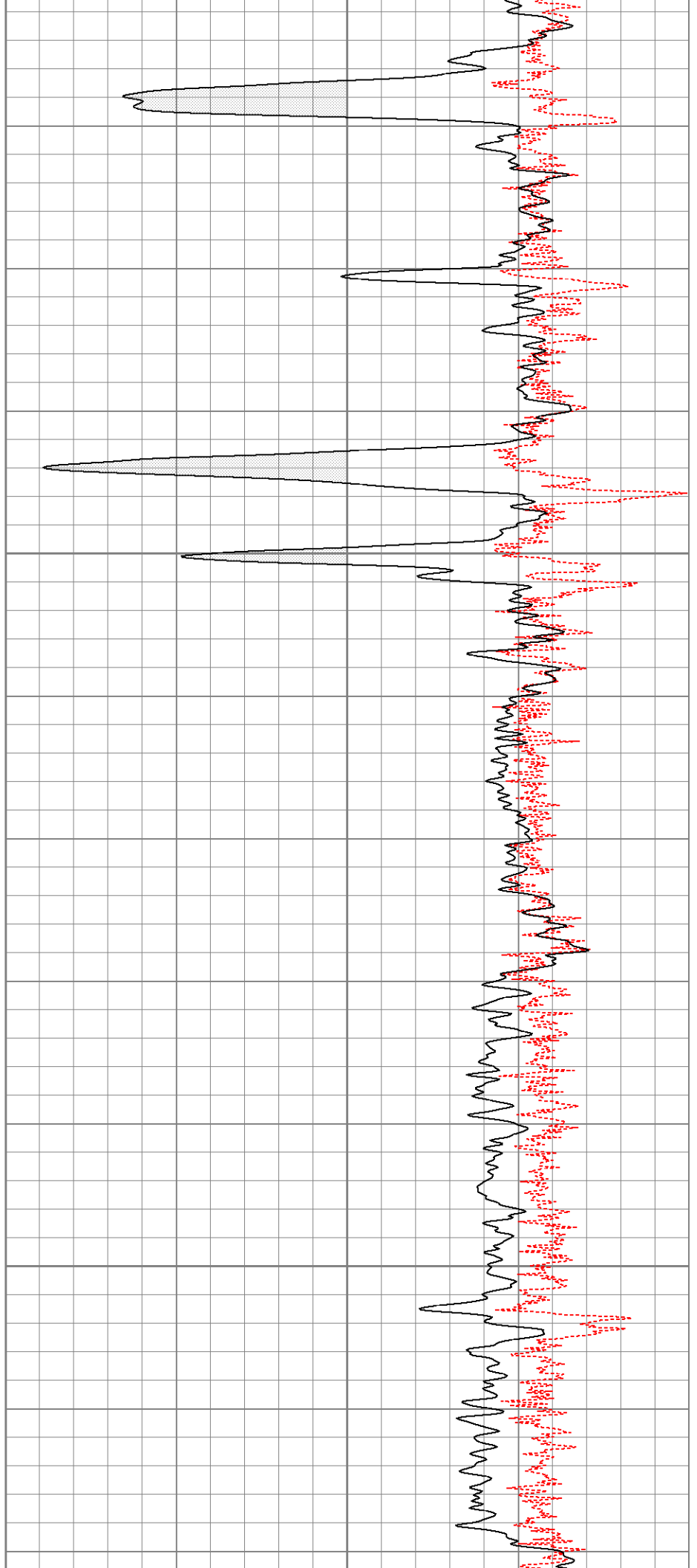
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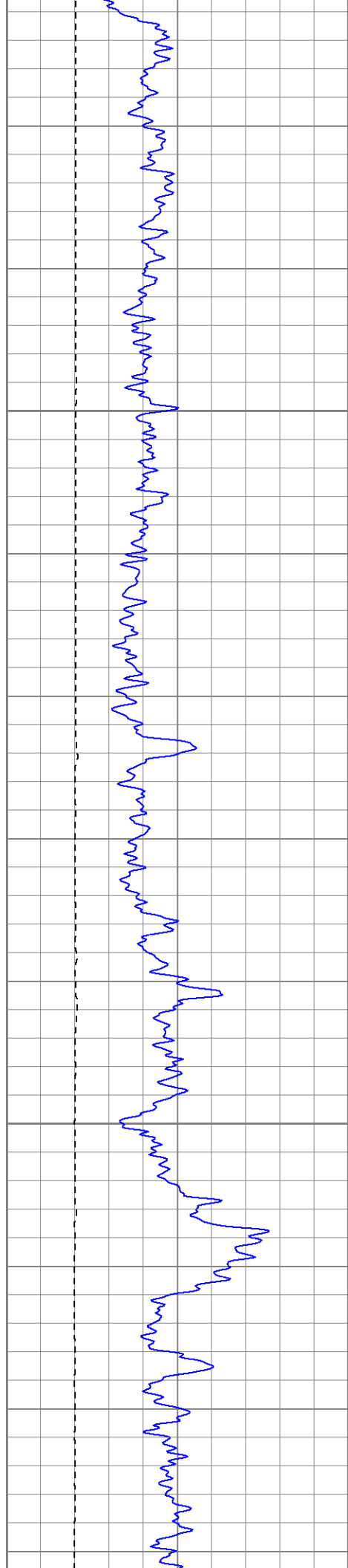




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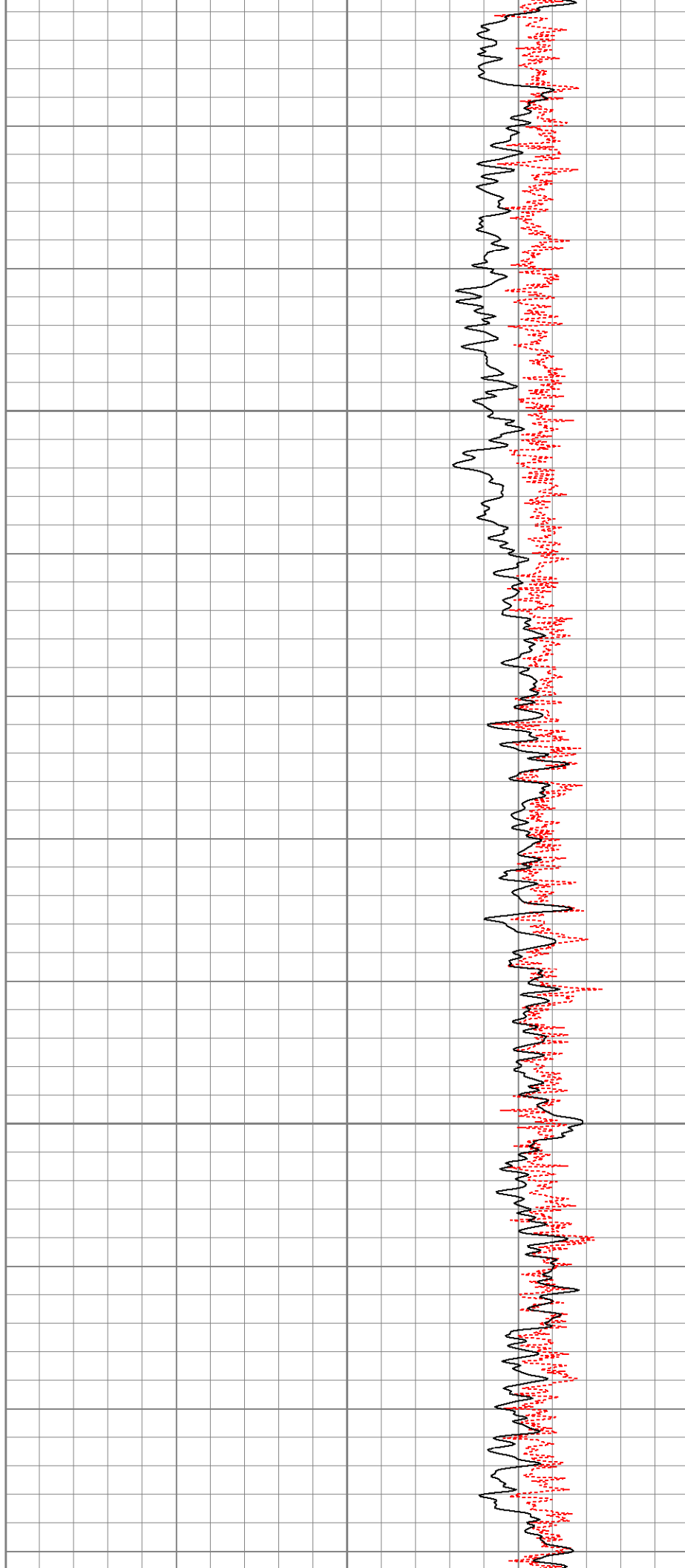
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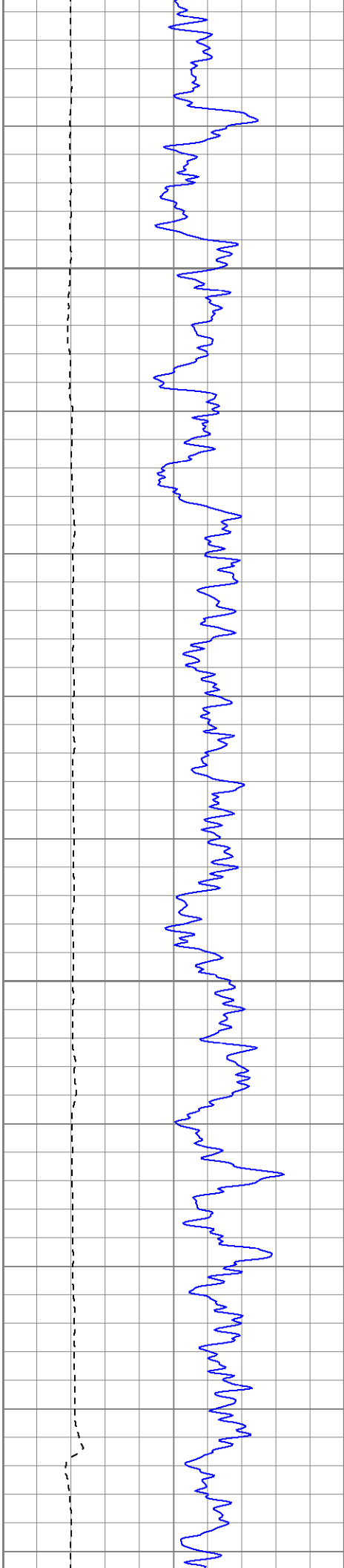




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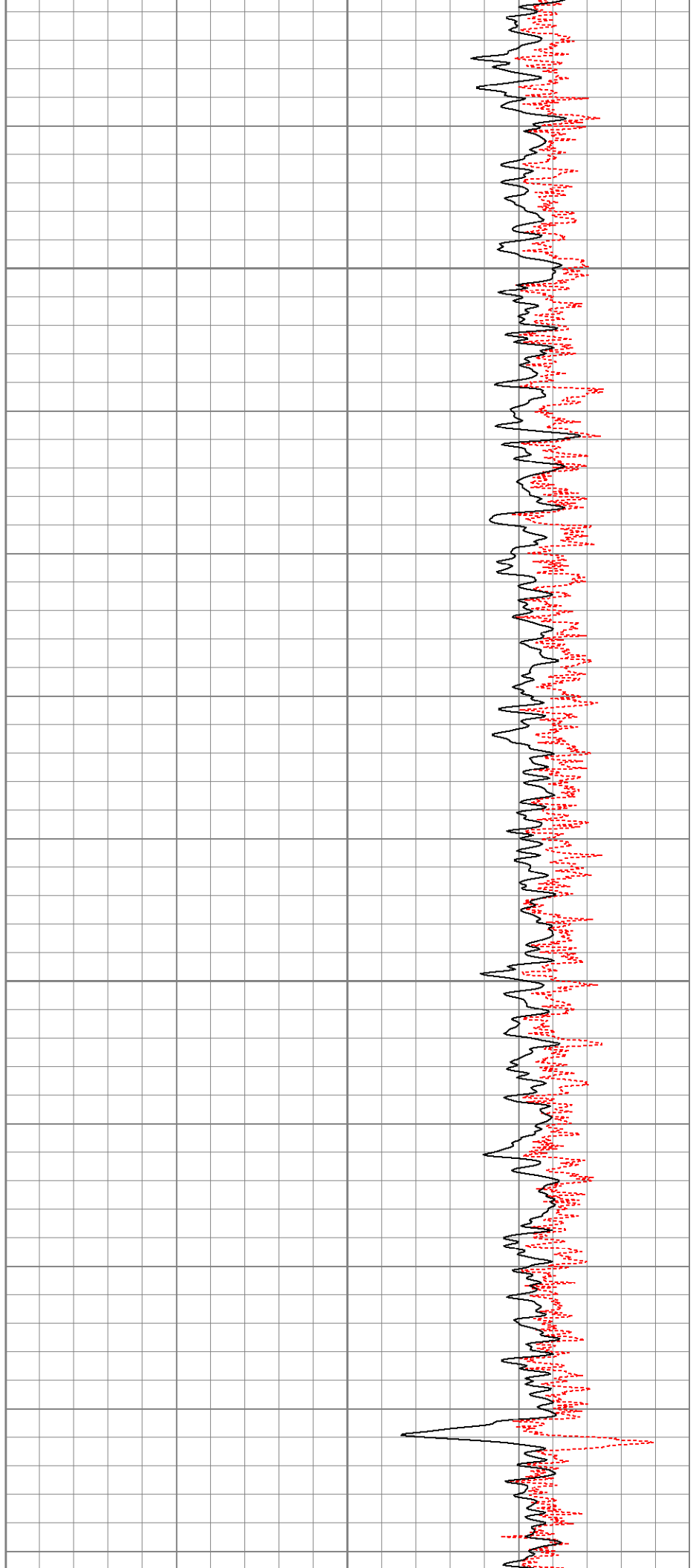
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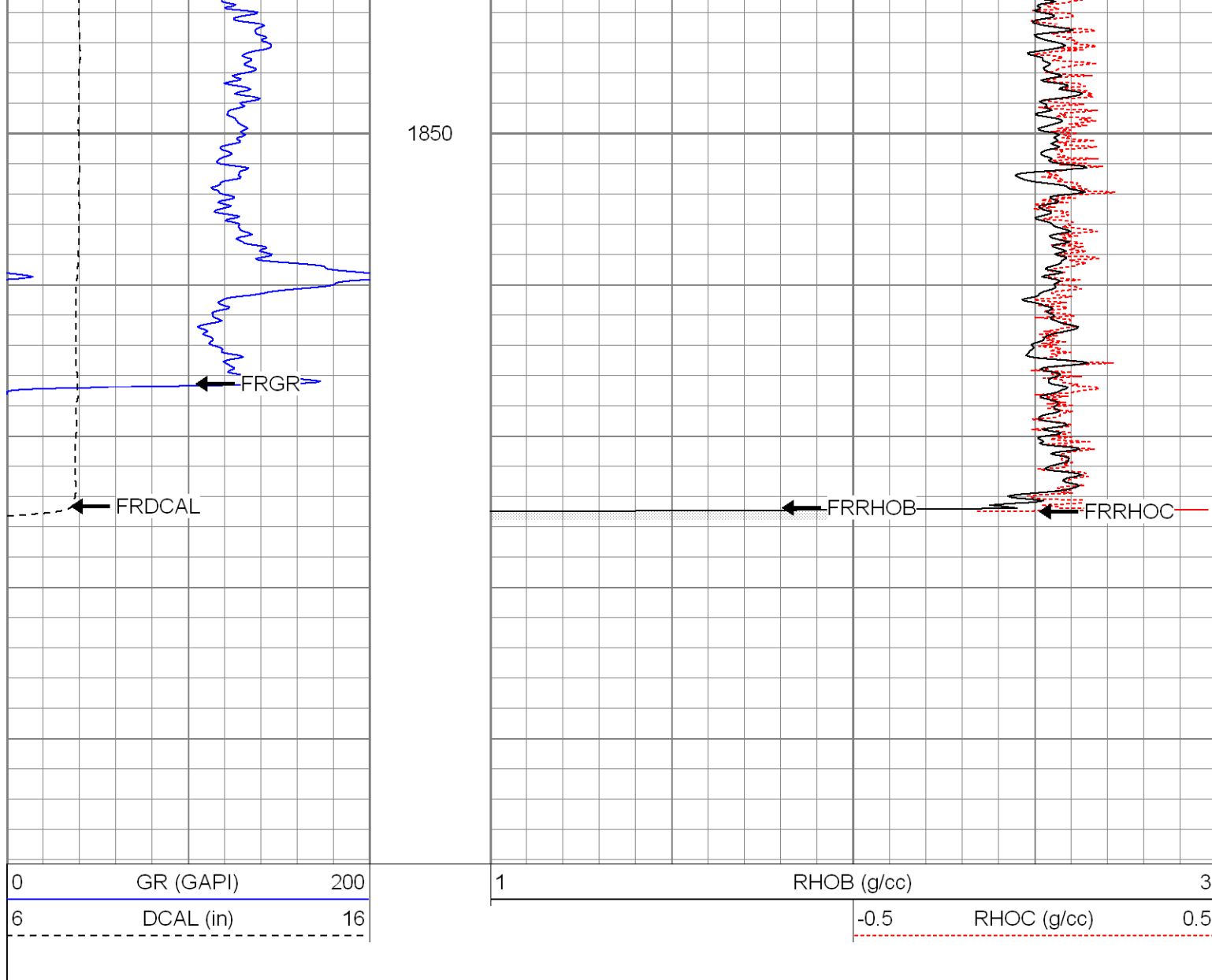




1750

1800





Calibration Report

Database File: xtone2514.db
 Dataset Pathname: pass1
 Dataset Creation: Thu Jun 12 11:43:37 2008 by Log Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: 080522-Probe
 Surface Cal Performed: Wed Jun 04 14:22:17 2008
 Downhole Cal Performed: Wed Jun 04 14:23:17 2008
 After Survey Verification Performed: Wed Jun 04 14:24:38 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.006	0.647	V	0.000	400.000	mmho-m	623.790	-3.739
Medium	0.014	0.754	V	0.000	464.000	mmho-m	627.128	-8.884
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.648	V	0.000	400.000	mmho-m	624.783	-4.587
Medium	0.013	0.754	V	0.000	464.000	mmho-m	626.379	-8.017

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.742	400.346	mmho-m	0.841	400.206	mmho-m	0.999	0.099
Medium	-0.743	463.962	mmho-m	-0.857	463.698	mmho-m	1.000	-0.115
LL3		7.365	V		1500.000	Ohm-m		
		-0.005	V		20.000	Ohm-m		
		-7.217	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2118-poilex
 Source / Verifier: /
 Master Calibration Performed: Wed Jun 04 14:20:01 2008

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		392.00	385.00	cps
Aluminum	2.590	g/cc		93.00	275.00	cps
Spine Angle = 76.84				Density/Spine Ratio = 0.596		
	Size			Reading		
Small Ring	8.00	in		4.39	V	
Large Ring	14.00	in		8.28	V	

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Wed Jun 04 09:52:45 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: Sat May 31 03:28:54 2008

 Calibrator Value: 1200 NAPI

 Calibrator Reading: 1700 cps

 Sensitivity: 0.705882 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.73		None	0.75	1.50	5.00
			NEU-G (5145) Gearhart Epithermal	5.65	3.50	85.00
GR	31.47		GR-OH (2001) 2001	3.56	3.25	40.00

Tool Joint	Length (ft)	Weight (lb)	OD (in)	Material	Notes
LSD	23.30				
DCAL	22.89				
SSD	22.72				
CILD	10.60				
SP	10.60				
CILM	6.89				
RLL3	1.70				
Dataset: xtone2514.db: field/well/run1/pass1 Total Length: 40.26 ft Total Weight: 750.00 lb O.D.: 4.00 in					