



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 29-09-2
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09362 00

2209' FSL & 441' FEL

Other Services
DIL

SEC 29 TWP 33S RGE 67W

Permanent Datum	Ground Level	Elevation	7180'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B. -----
D.F. -----
G.L. 7180'

Date 1-23-08

Run Number One

Depth Driller 1915'

Depth Logger 1912'

Bottom Logged Interval 1889'

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 9:00 A.M.

Time Logger on Bottom 12:10 P.M.

Maximum Recorded Temperature 106 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, First Left
follow road uphill, first left to location.

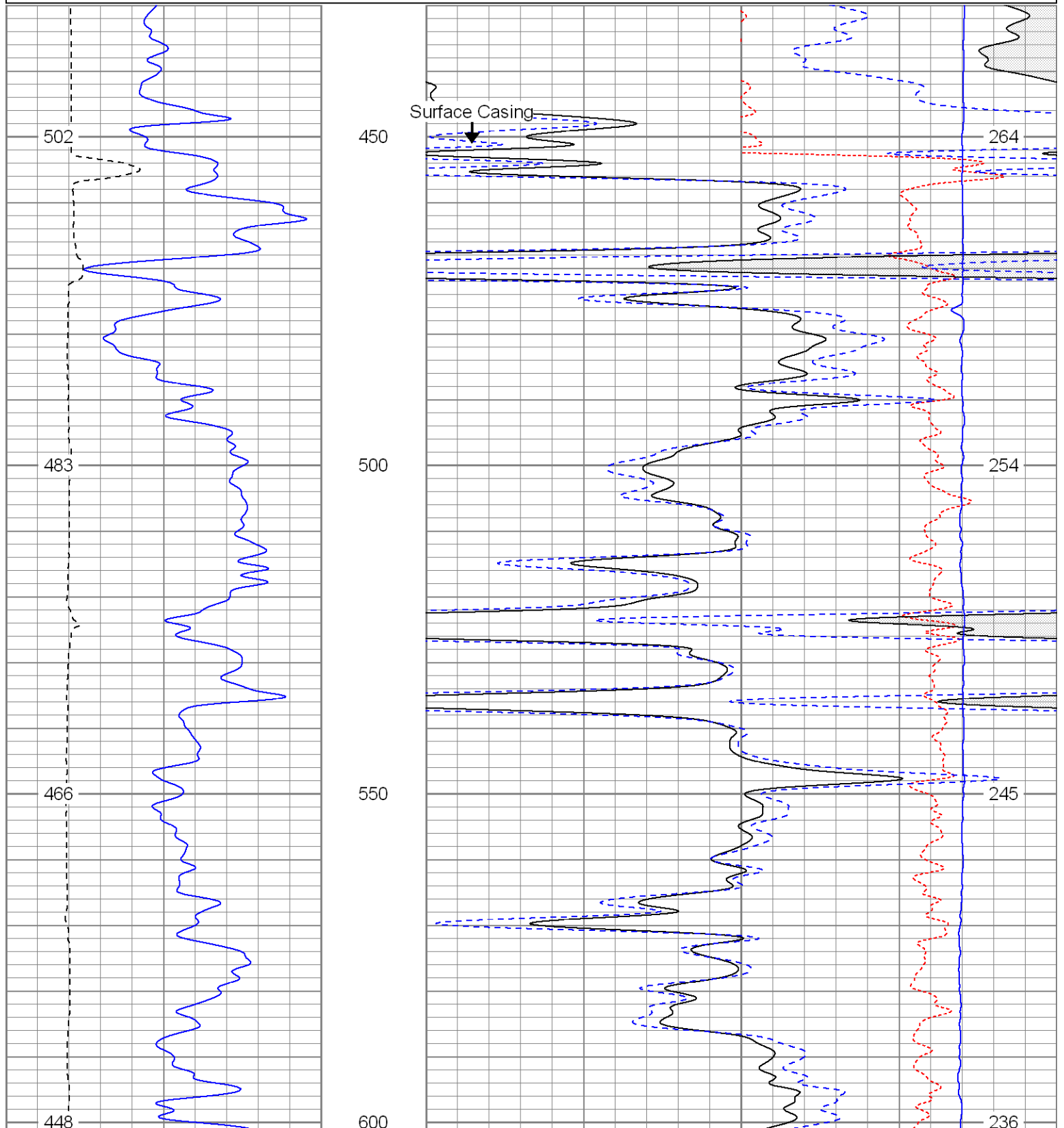


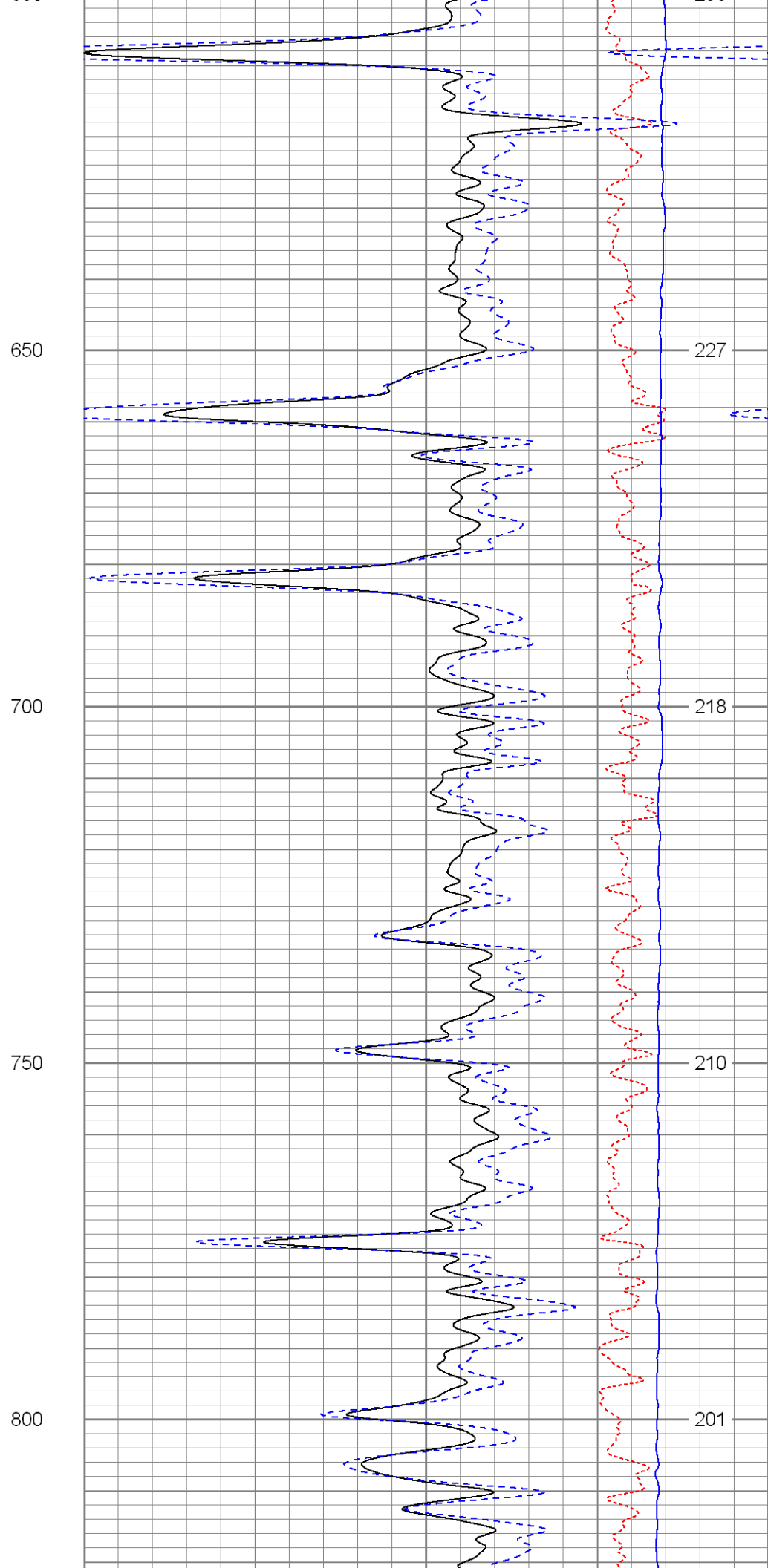
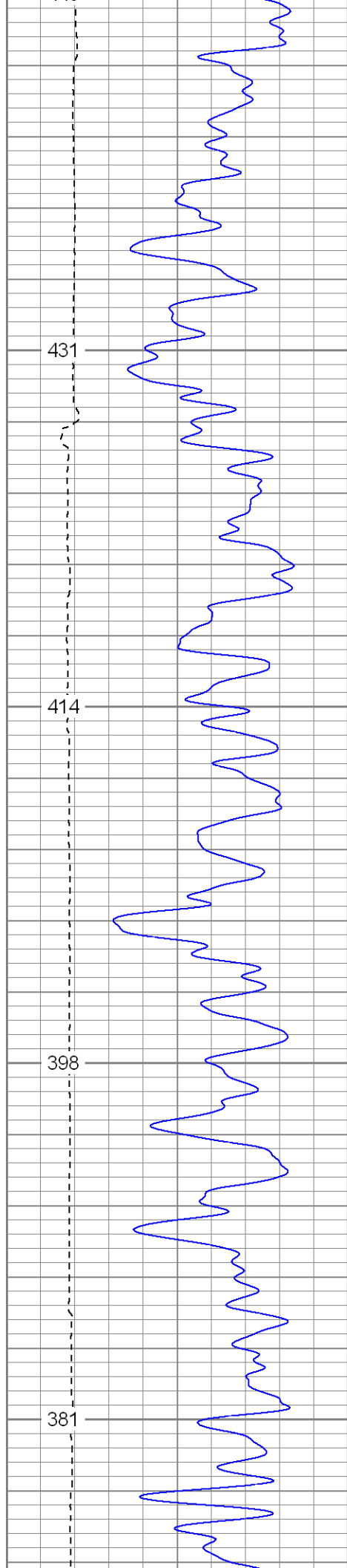
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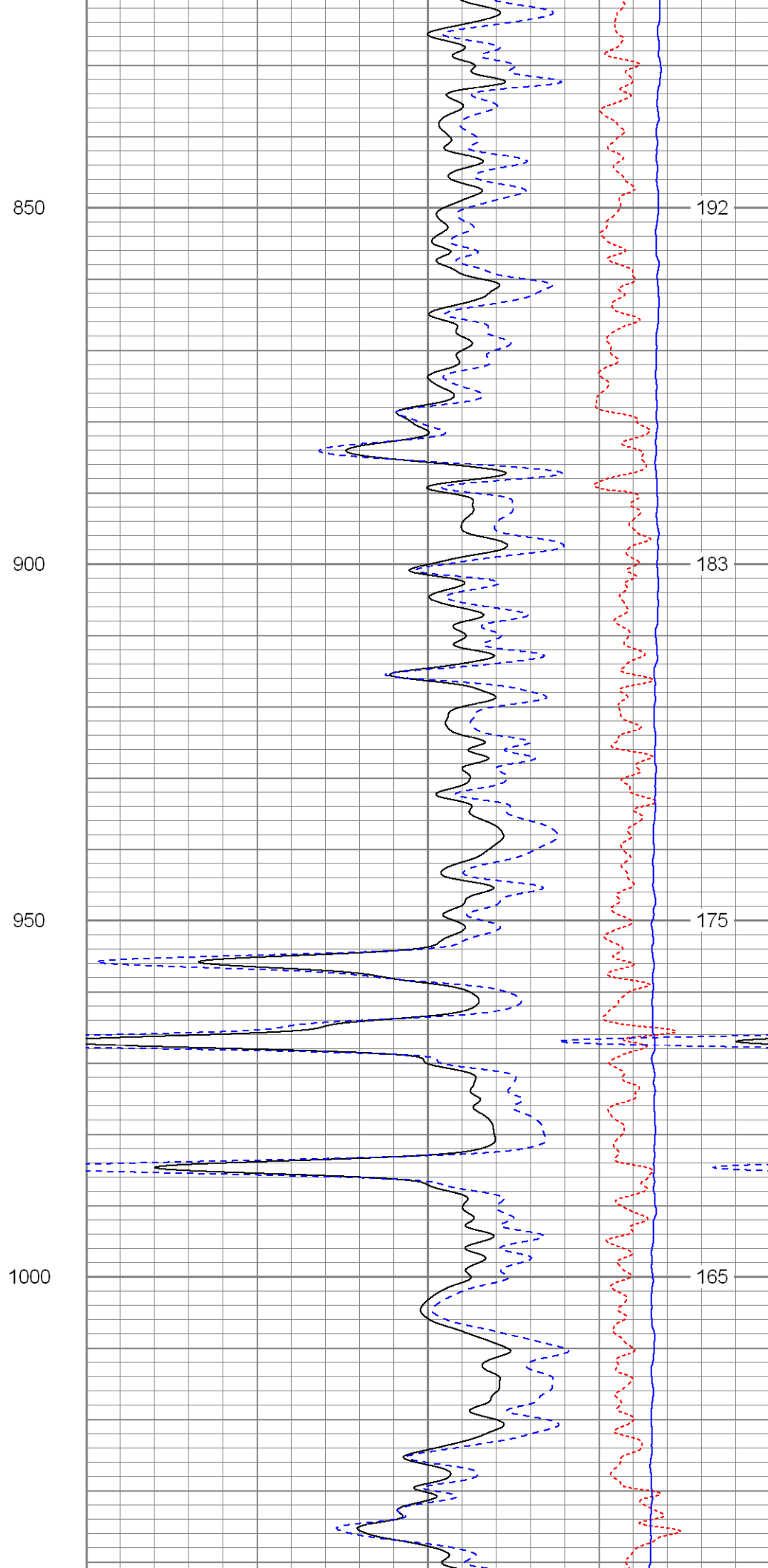
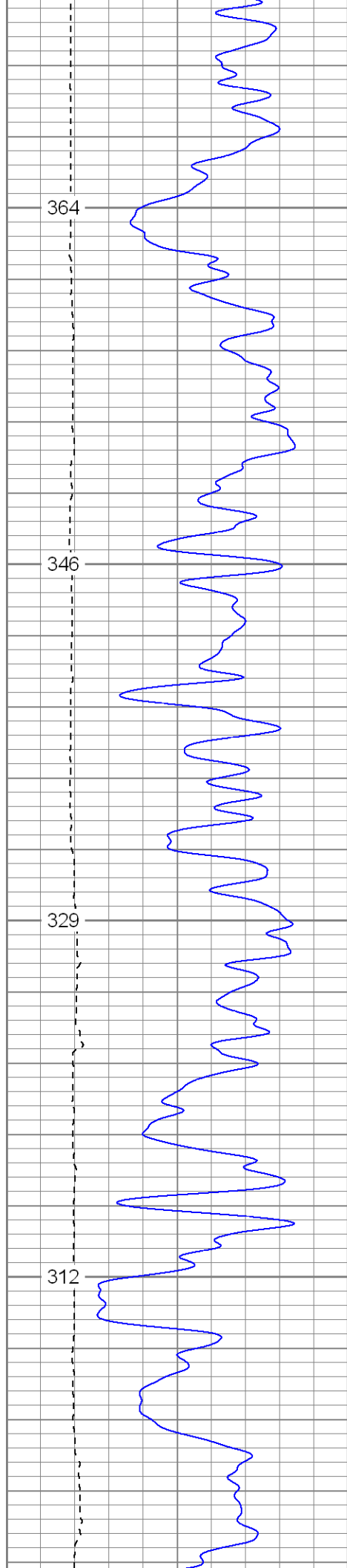
Main Pass

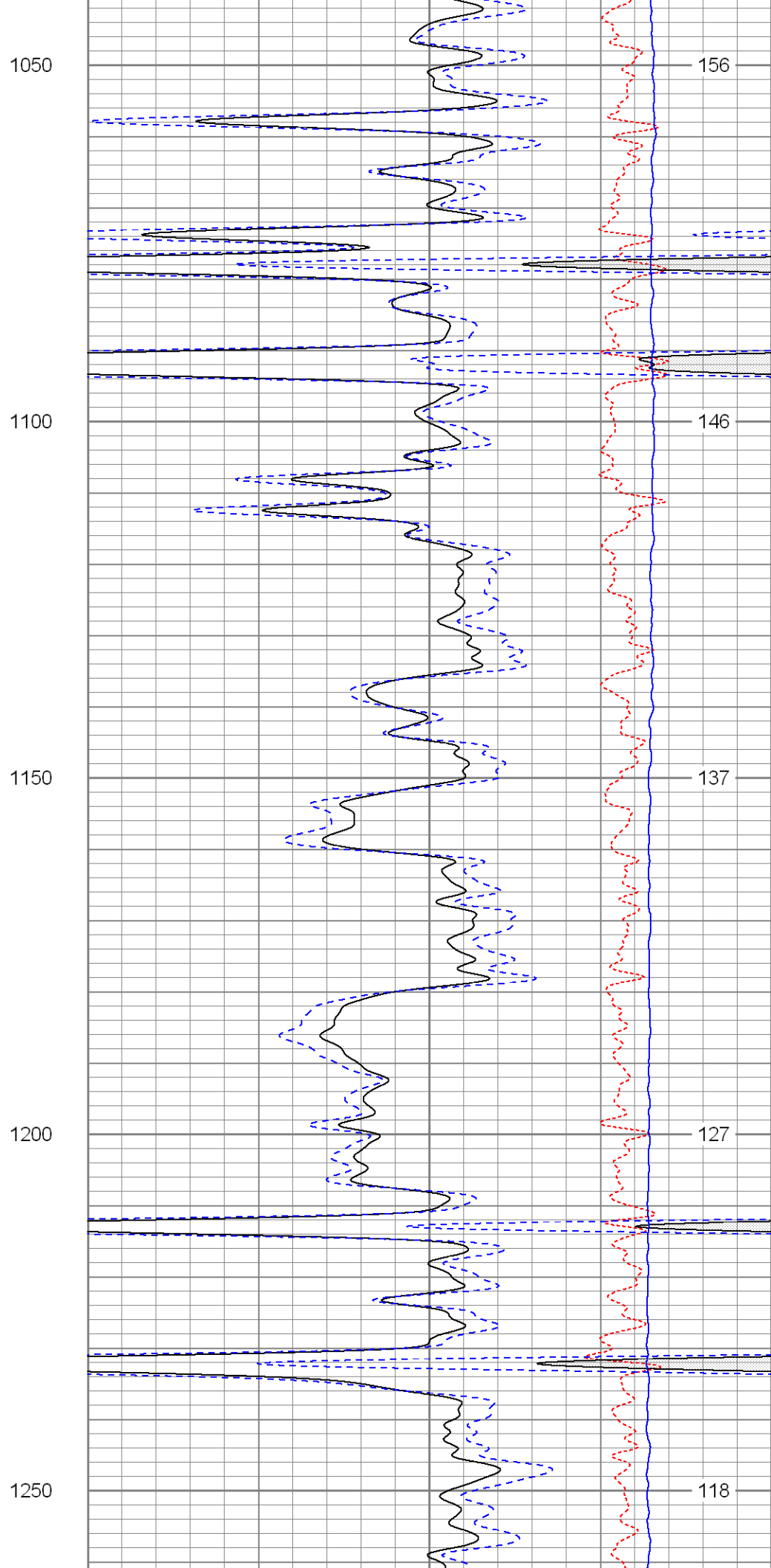
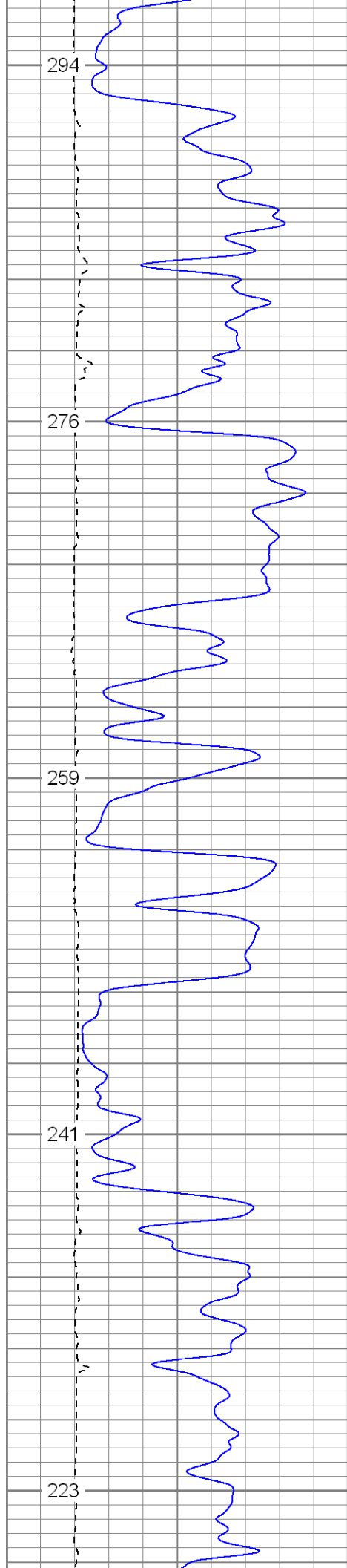
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Dataset Pathname: pass3.1
Presentation Format: cdl
Dataset Creation: Wed Jan 23 14:08:14 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

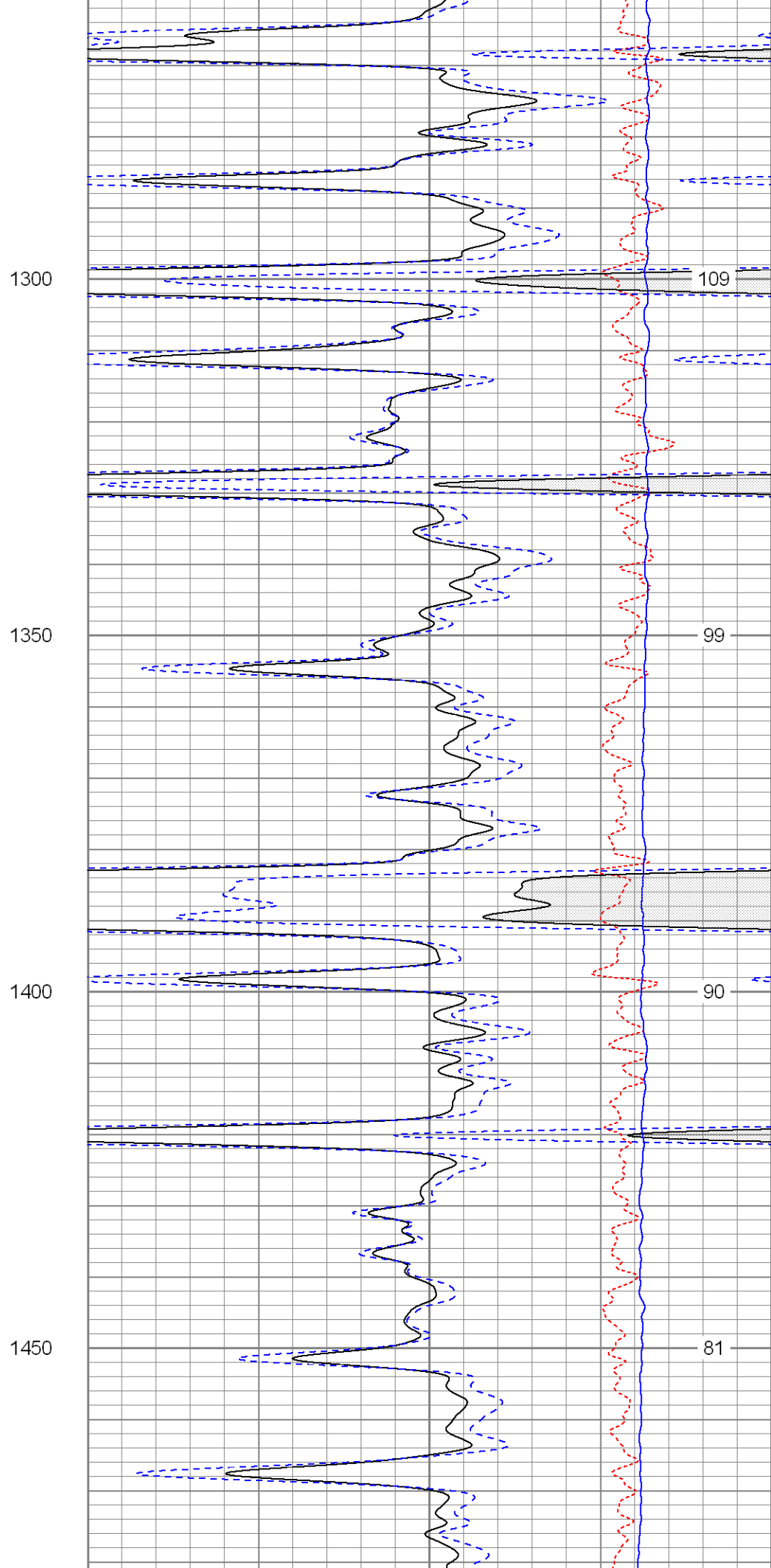
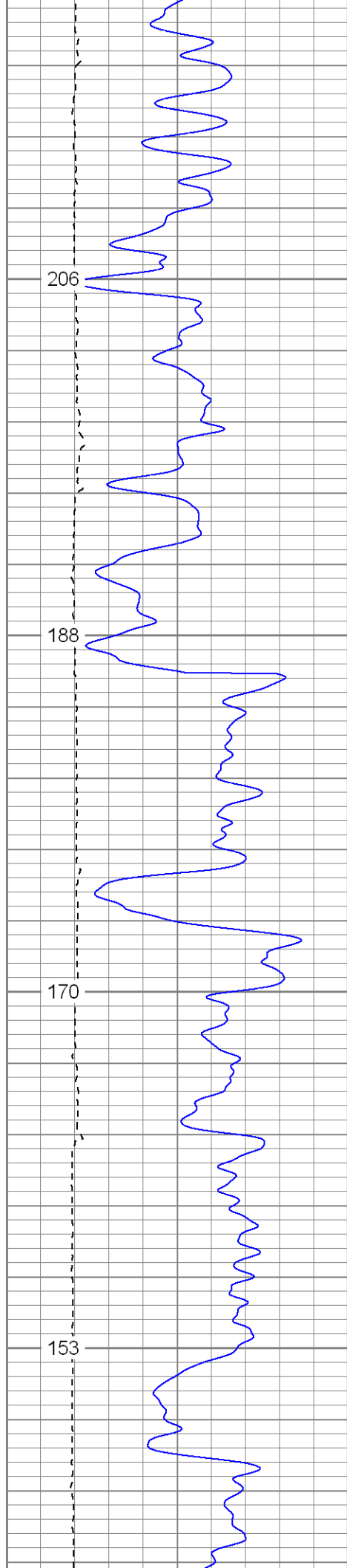
0	GR (GAPI)	200	2	RHOB (g/cc)	3
6	DCAL (in)	16	1	RHOB (g/cc)	2
TBHV (ft3)			30	DPOR (pu)	-10
			-0.5 RHOC (g/cc) 0.5		
			4000 LTEN (lb) 0		
			ABHV (ft3)		

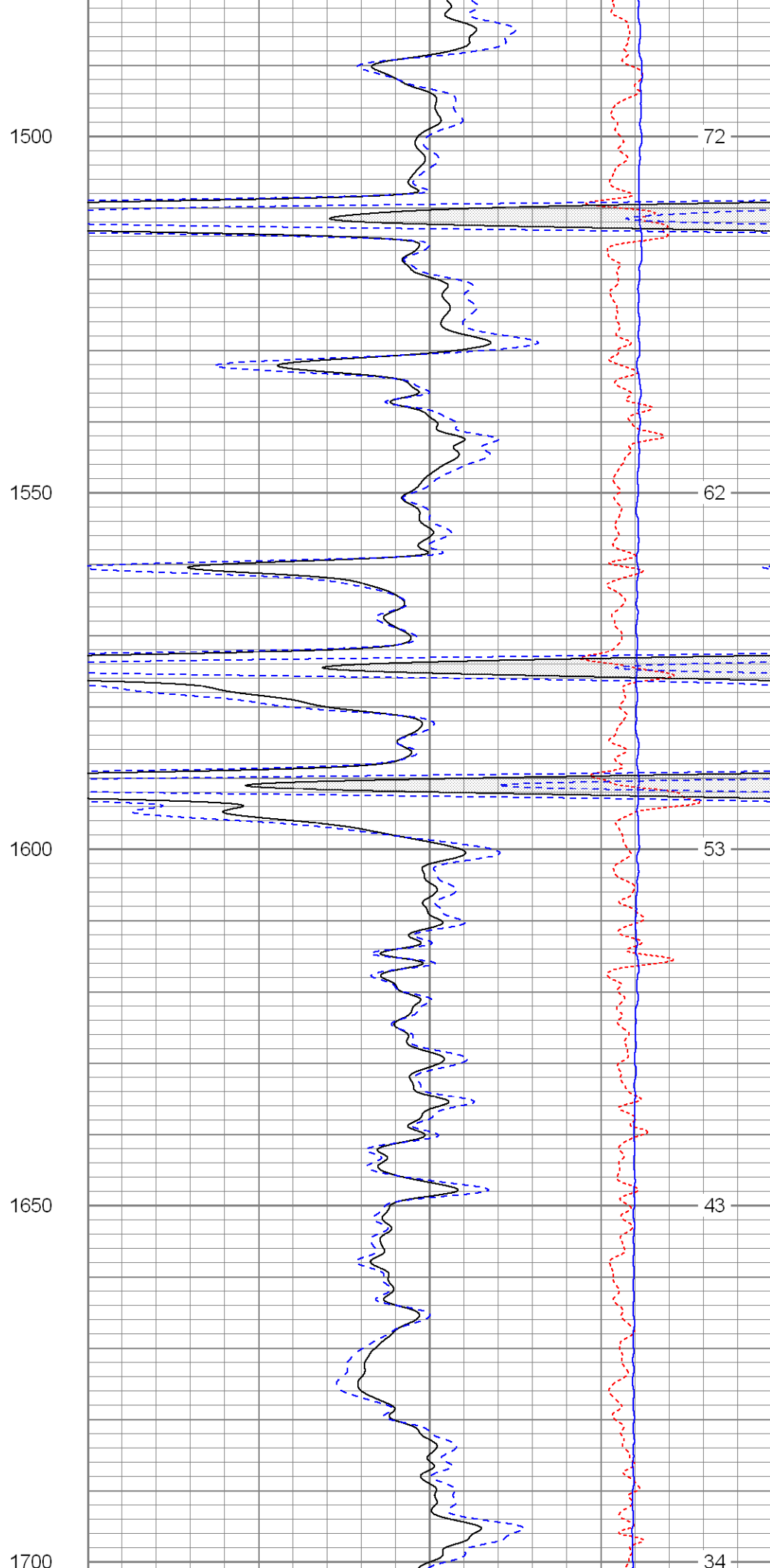
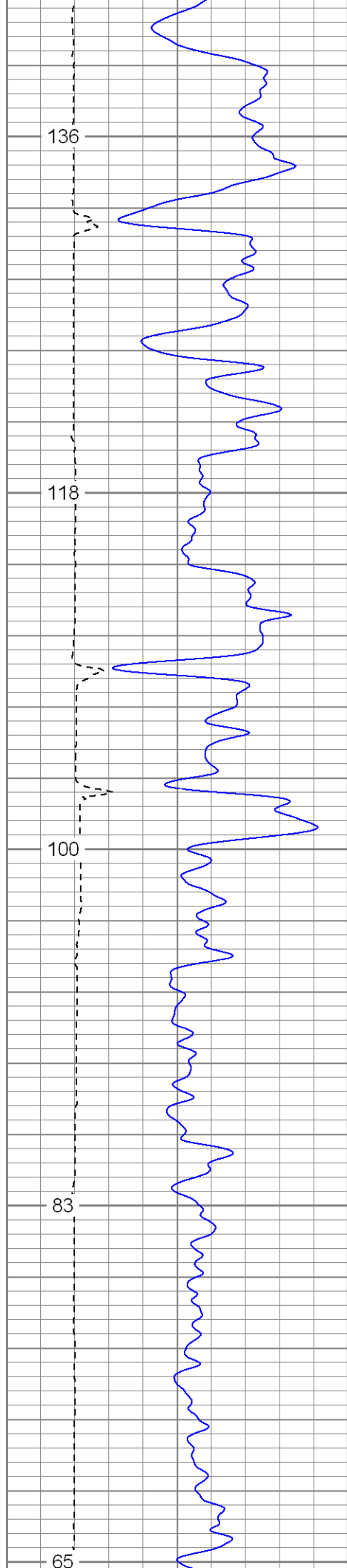


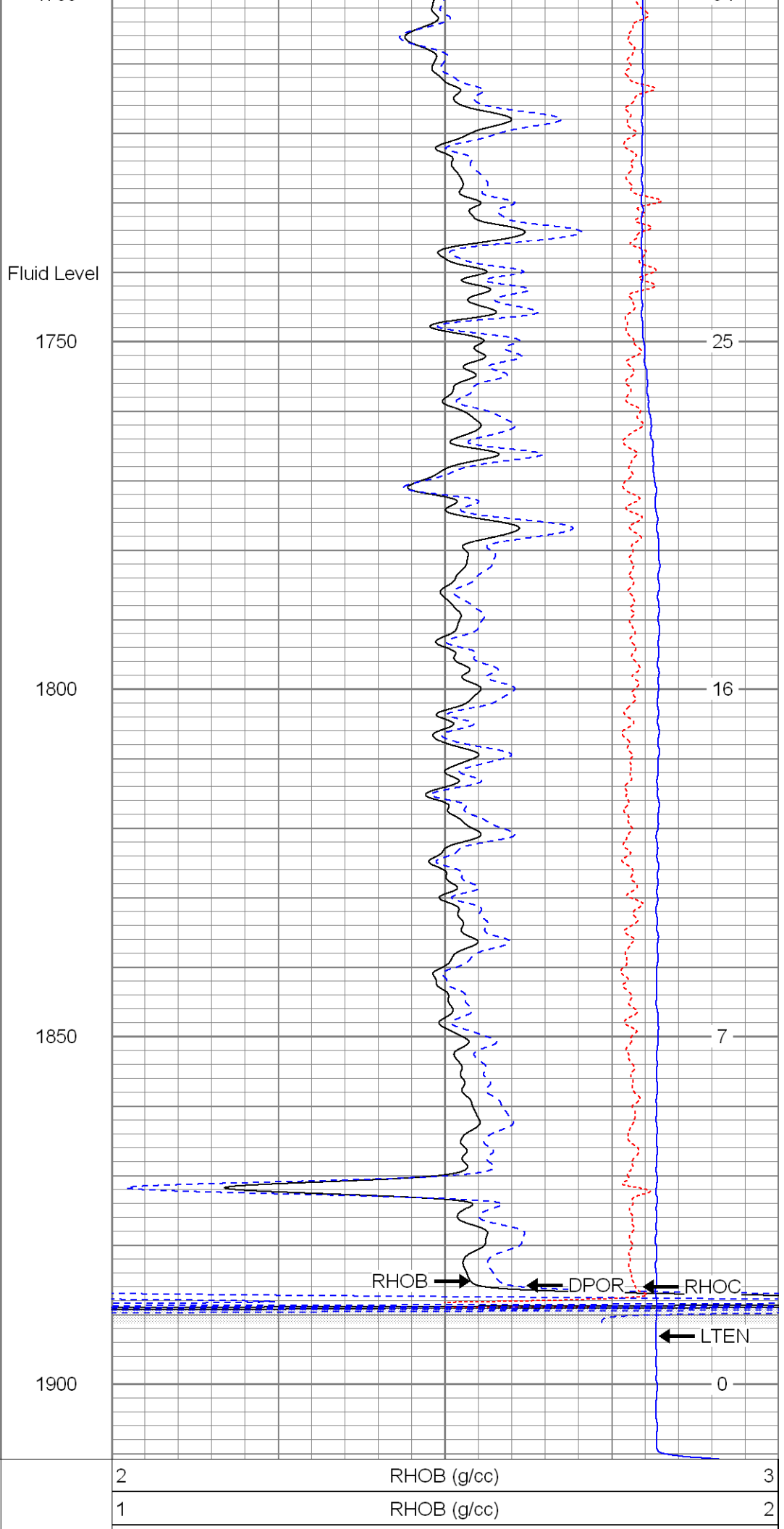
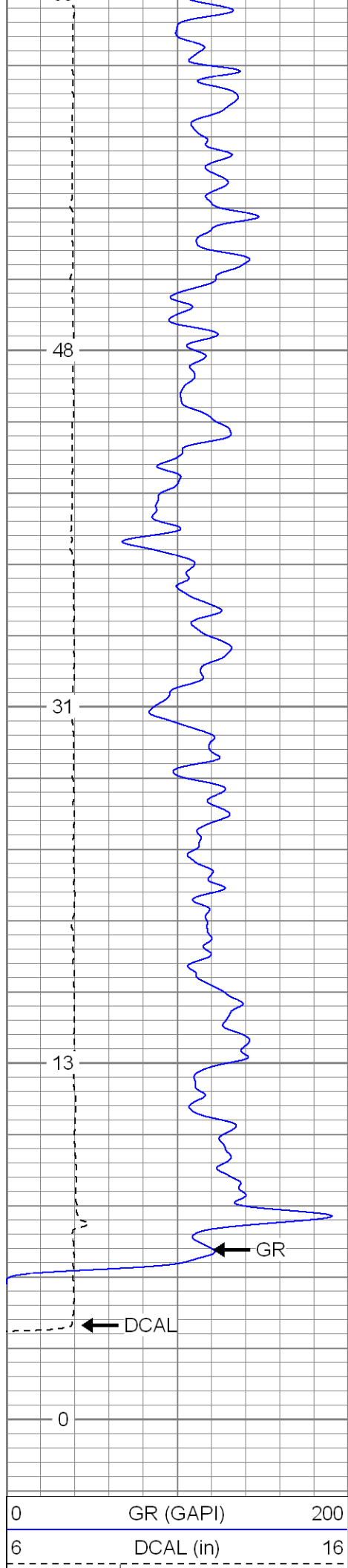












TBHV (ft3)	30	DPOR (pu)	-10
		-0.5	RHOC (g/cc) 0.5
		4000	LTEN (lb) 0
			ABHV (ft3)



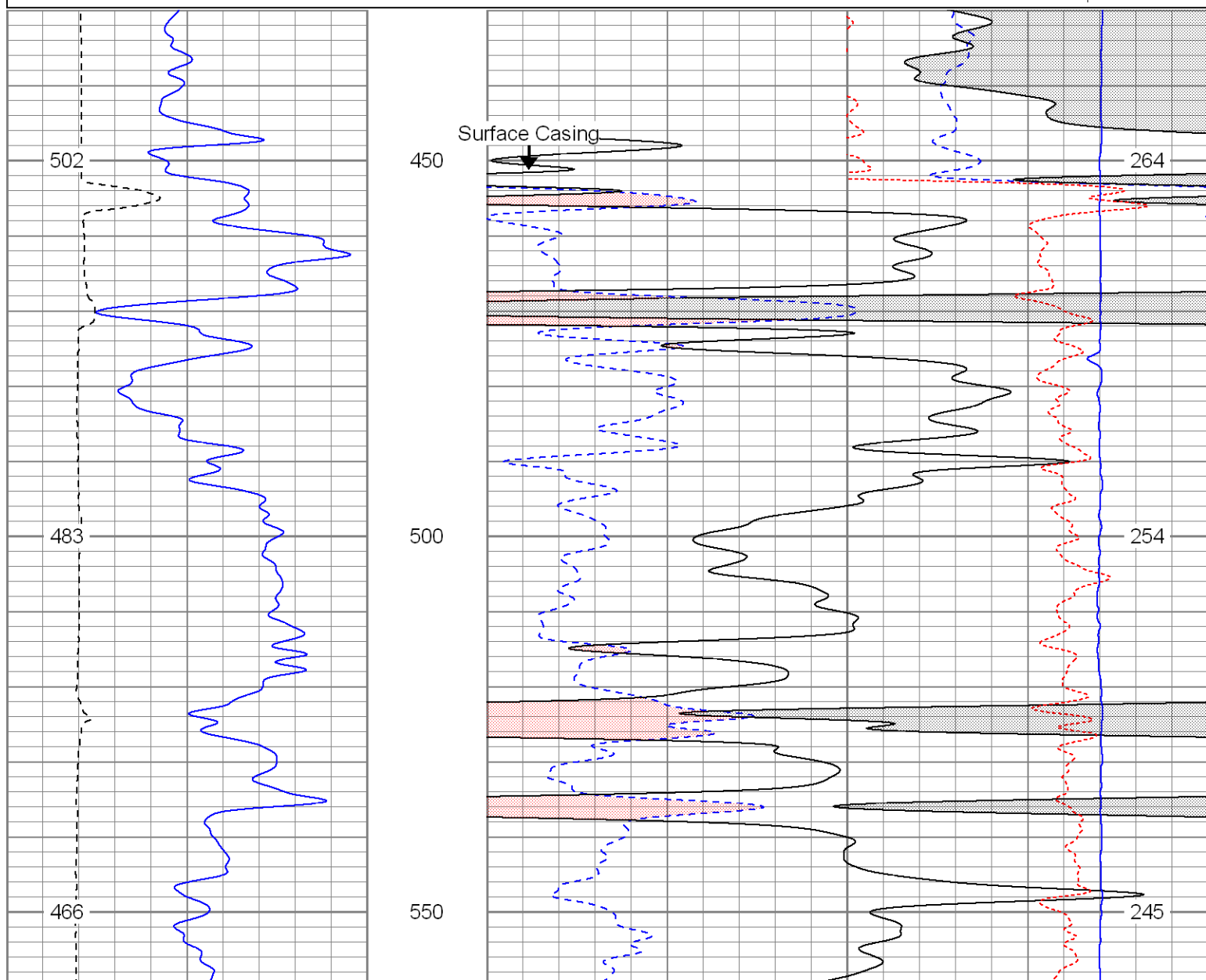
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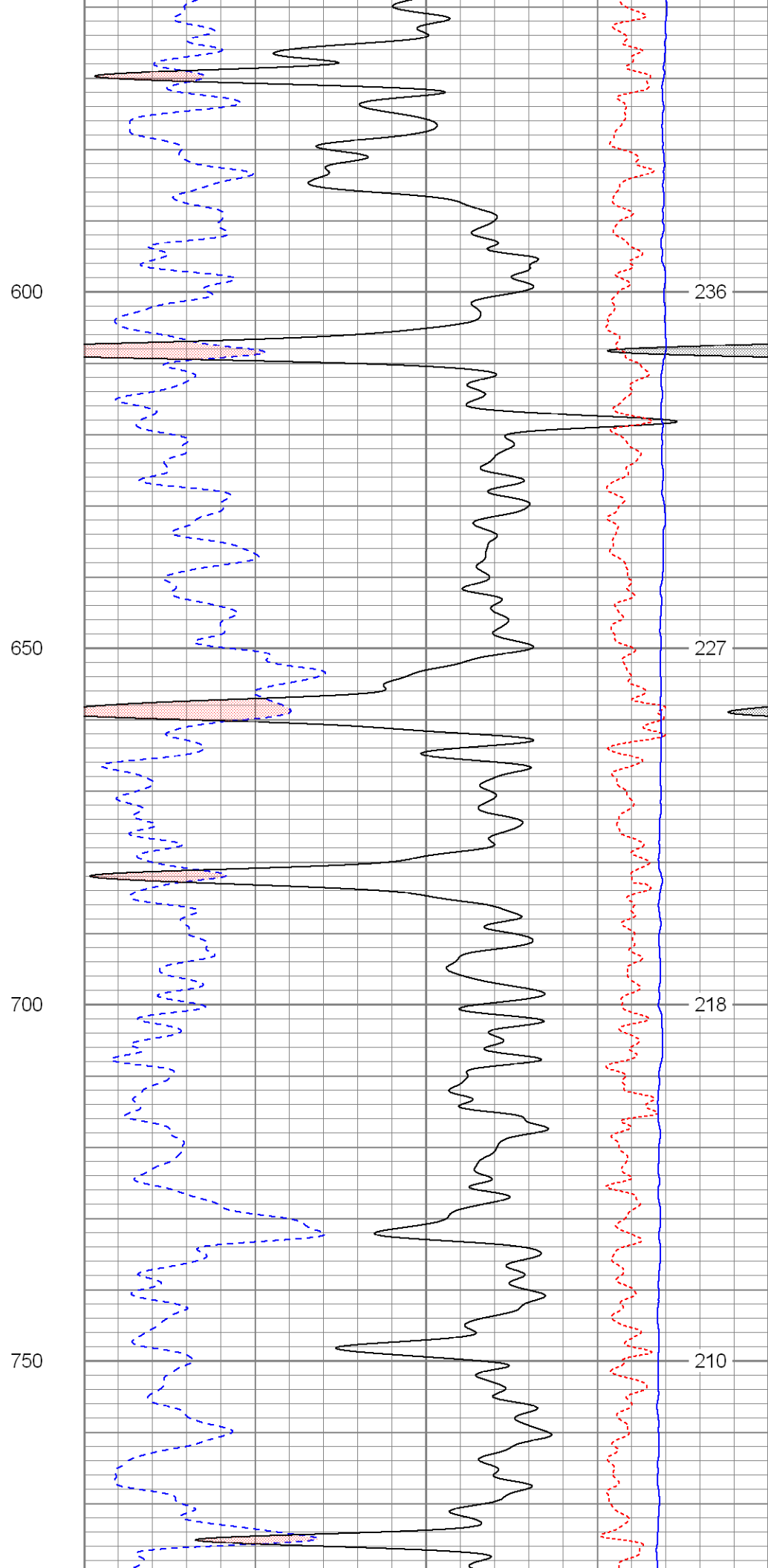
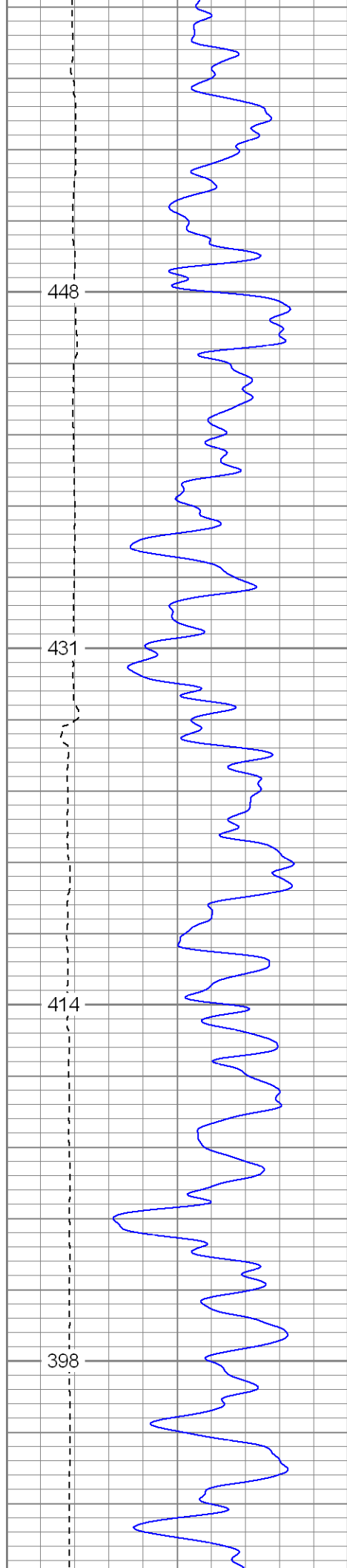
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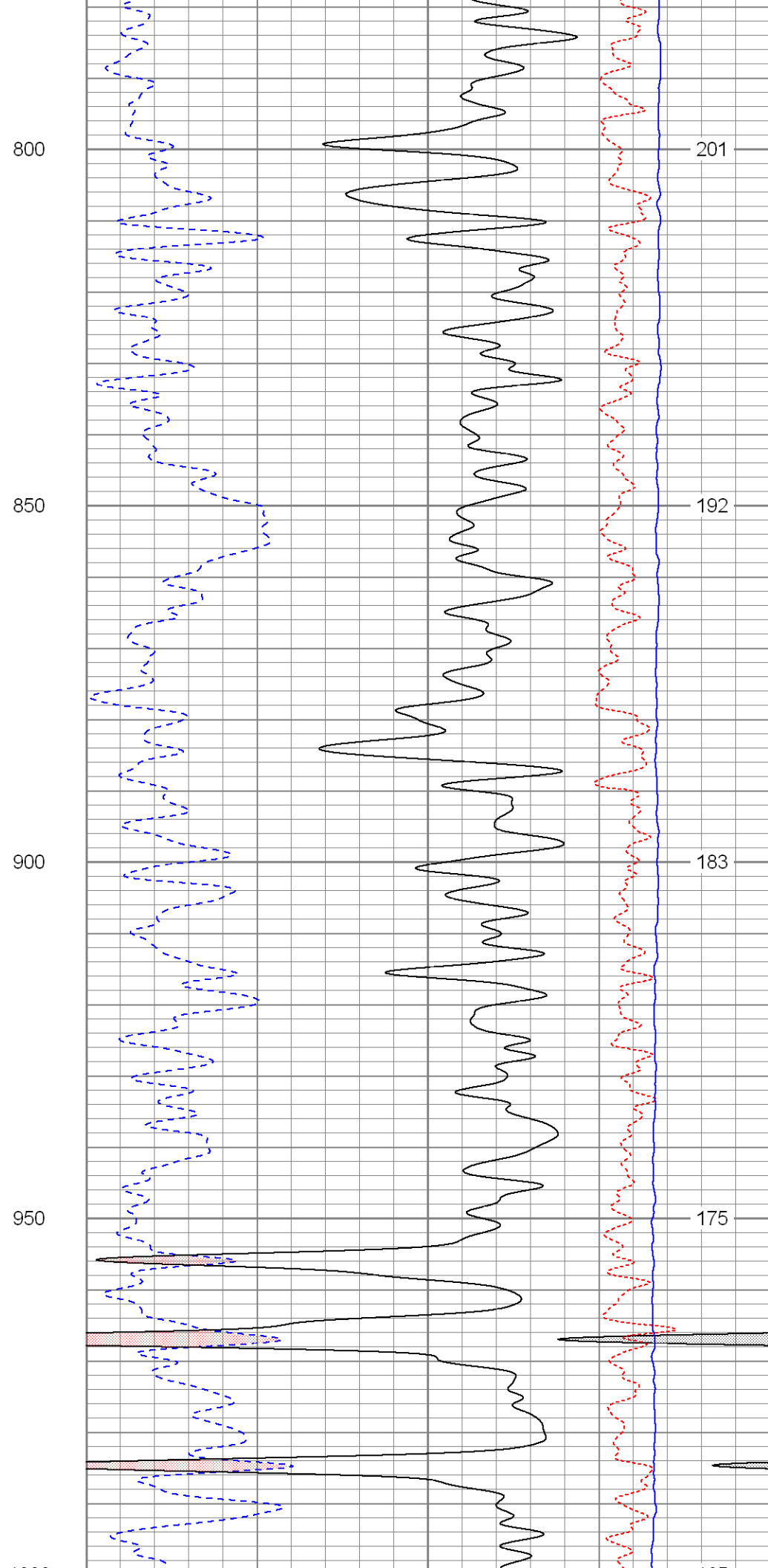
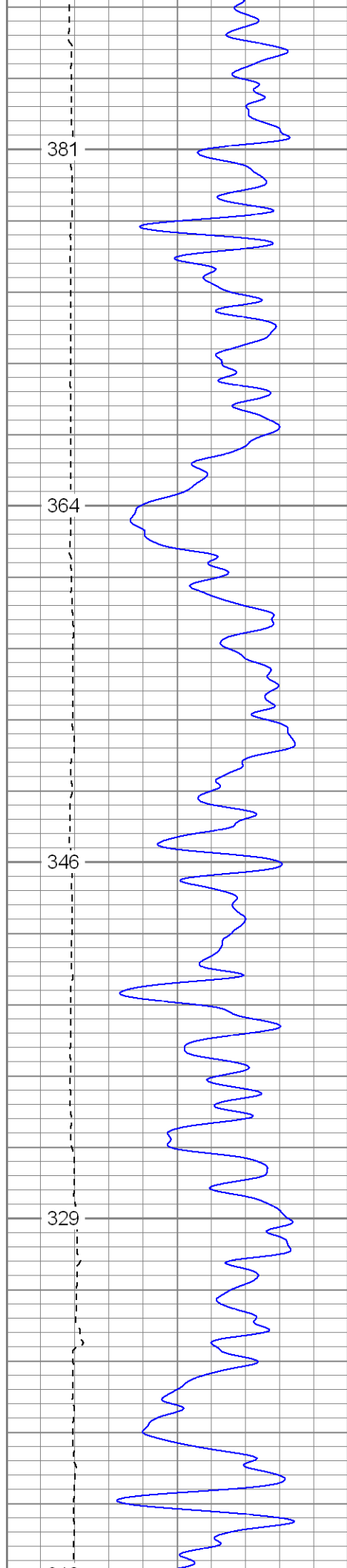
Main Pass

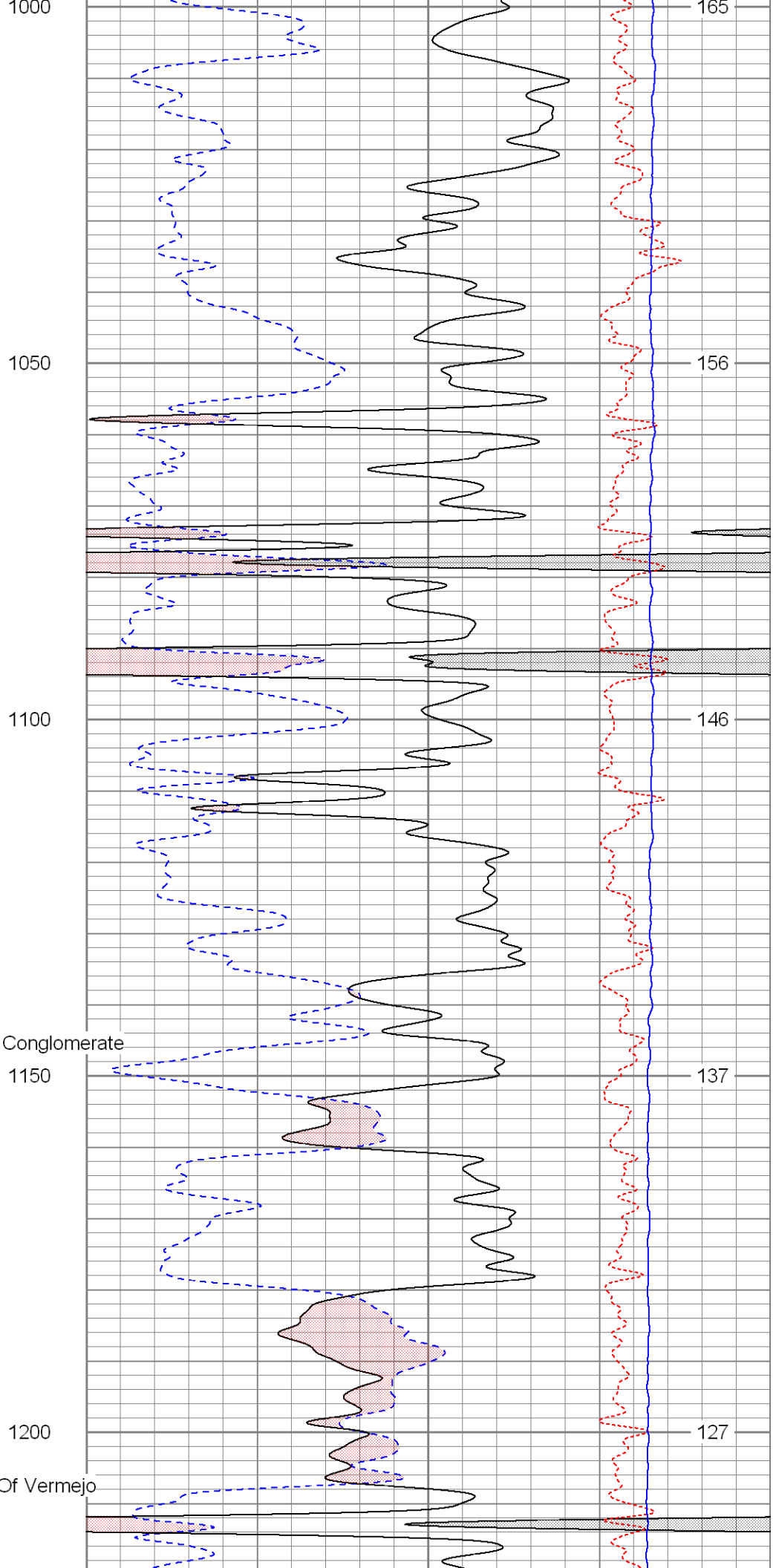
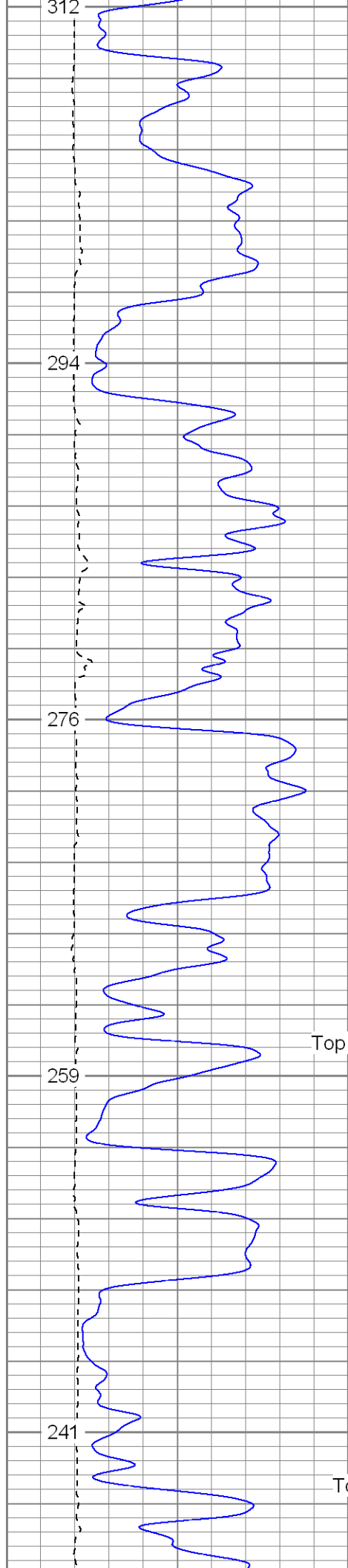
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Dataset Pathname: pass3.1
Presentation Format: cdnl
Dataset Creation: Wed Jan 23 14:08:14 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

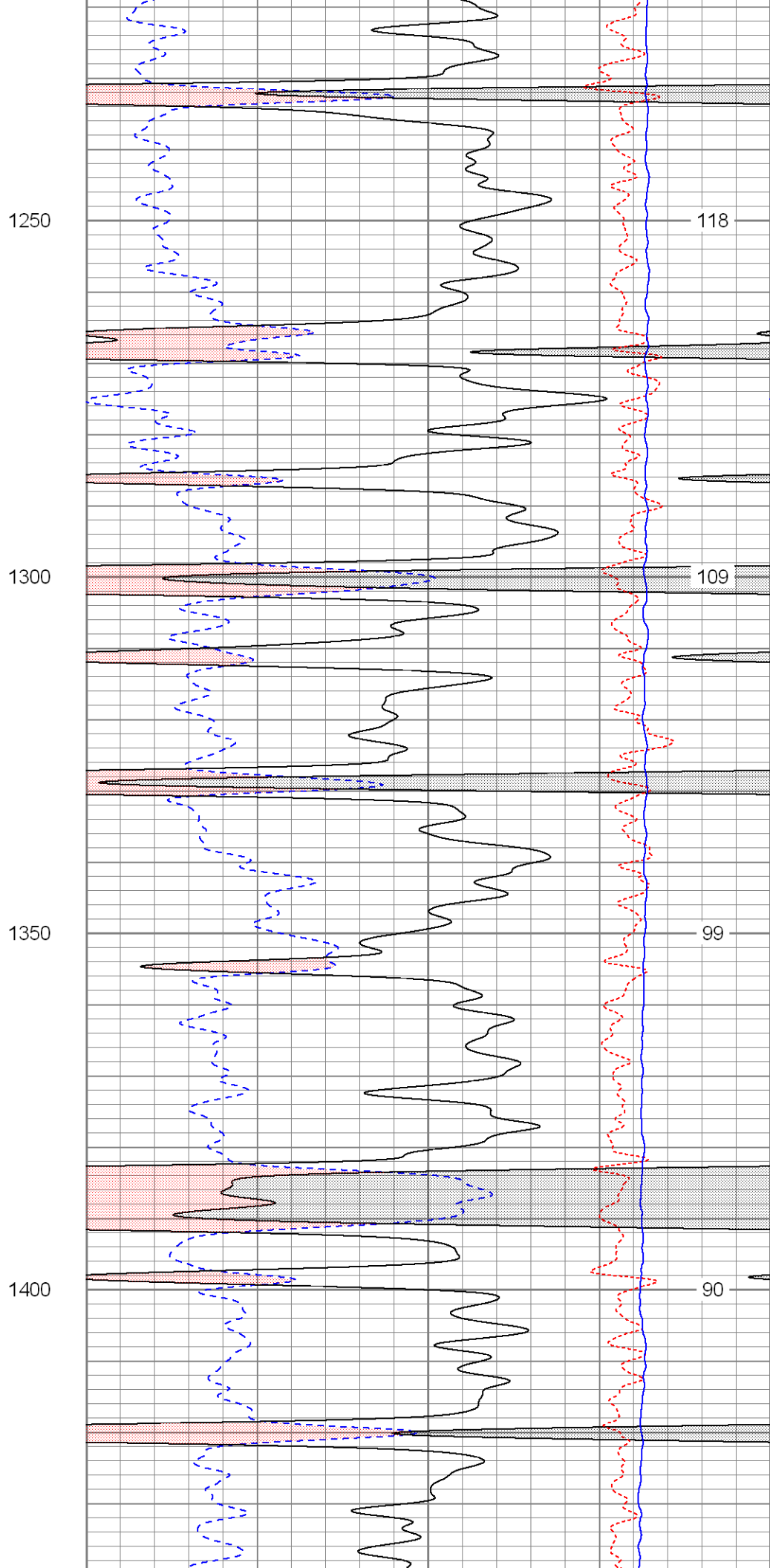
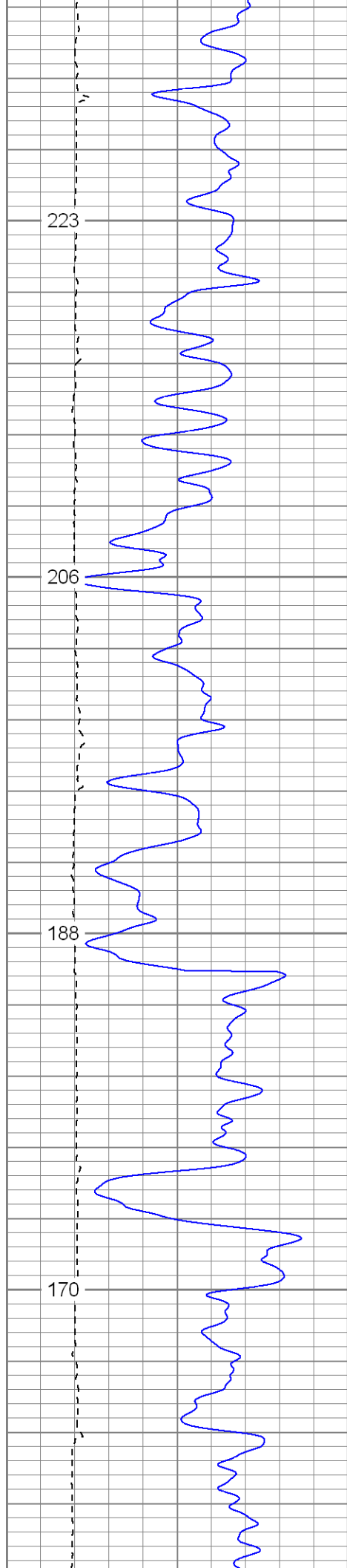
0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
TBHV (ft3)				-0.5	RHOC (g/cc) 0.5
				4000	LTEN (lb) 0
					ABHV (ft3)

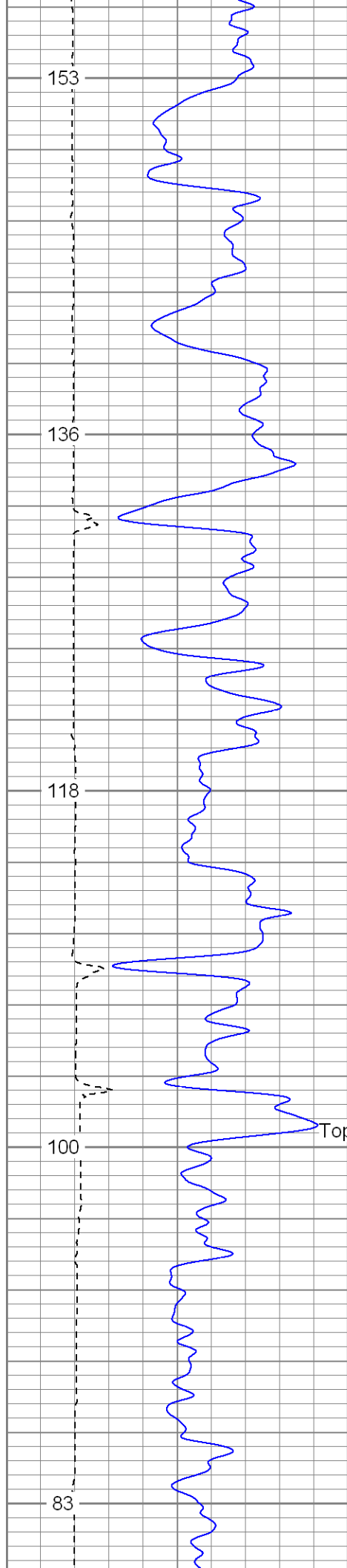




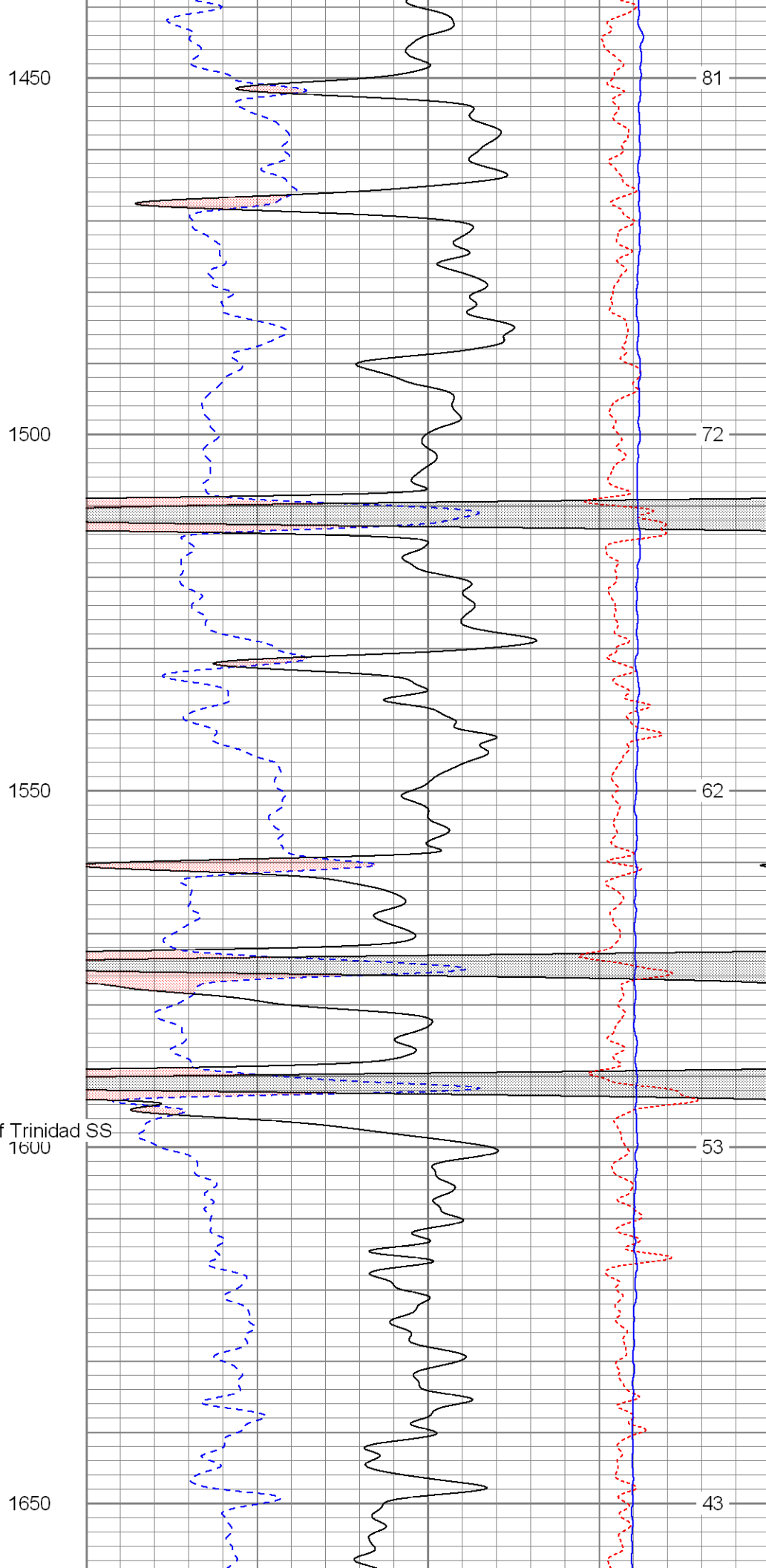


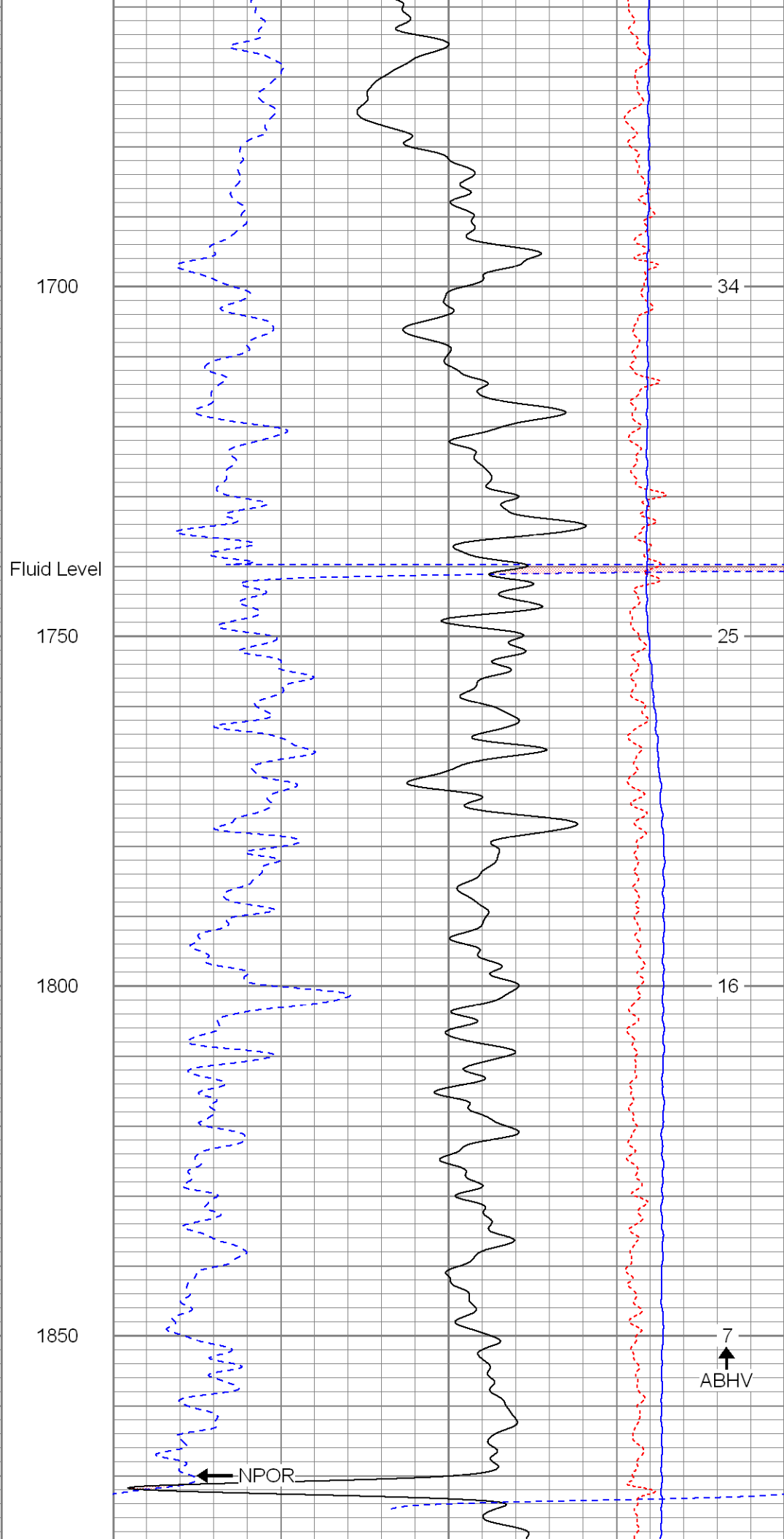
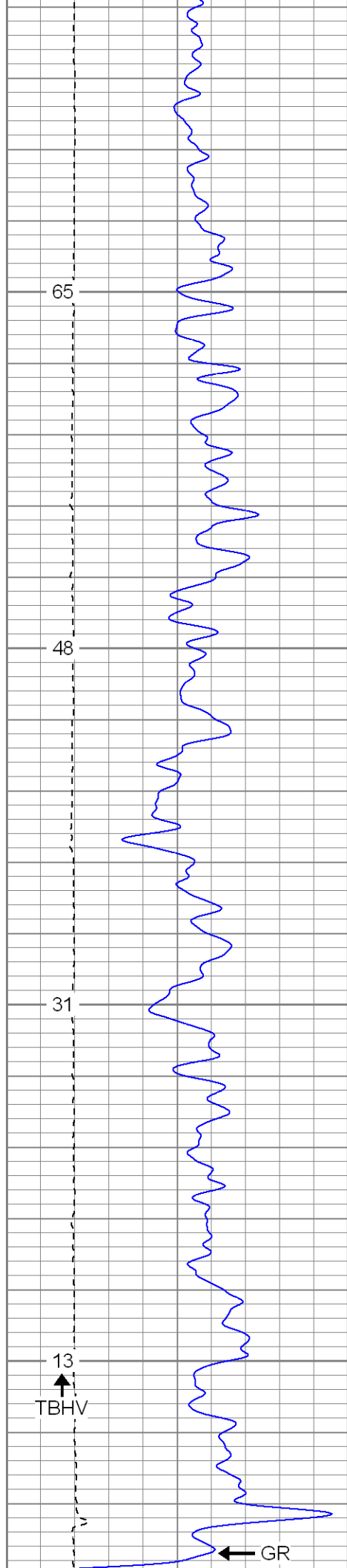


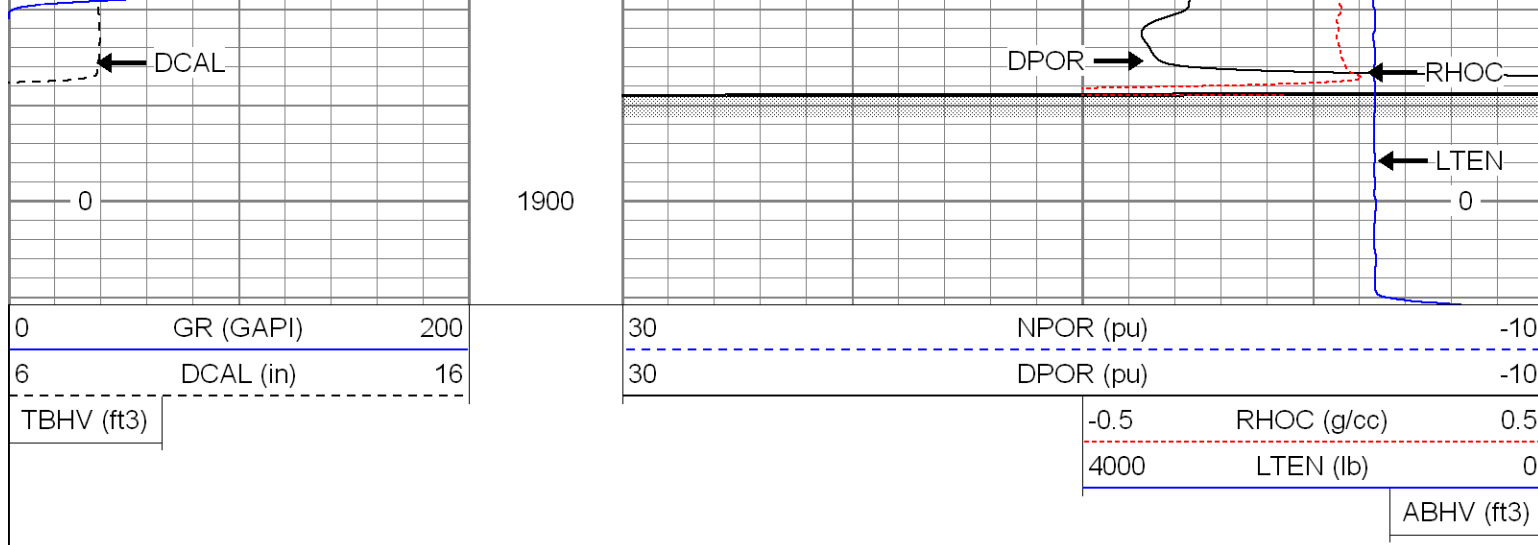




Top Of Trinidad SS
1600





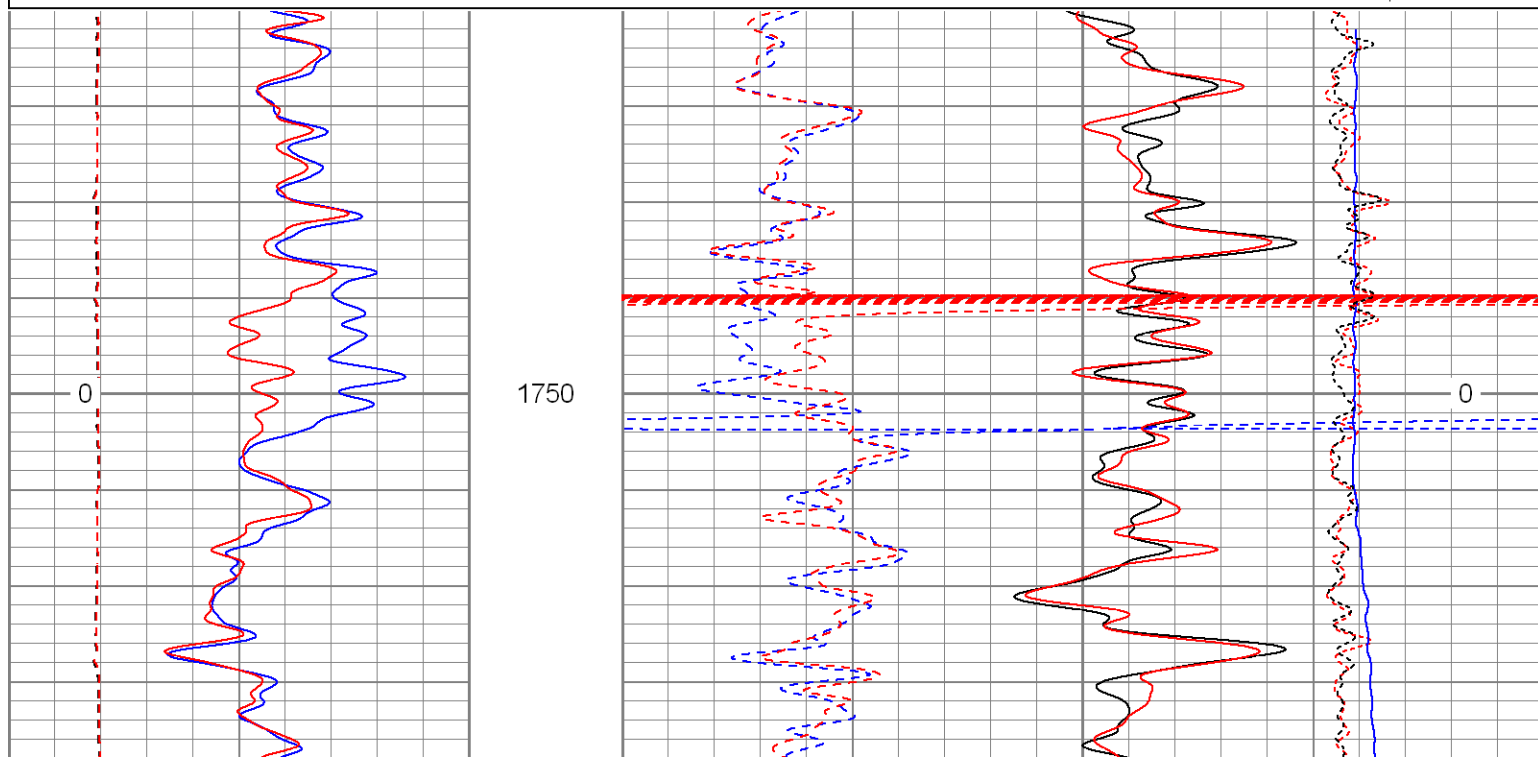
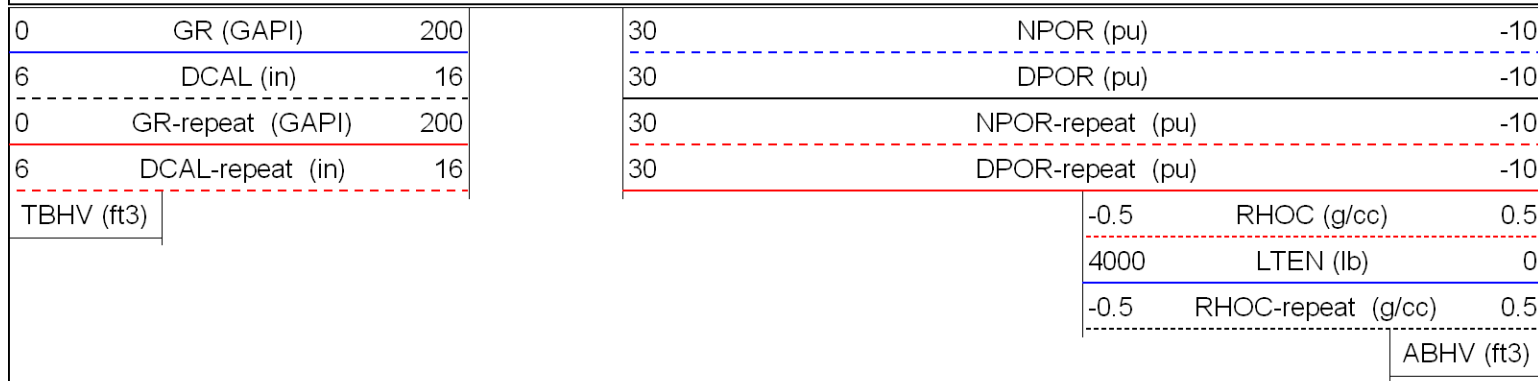


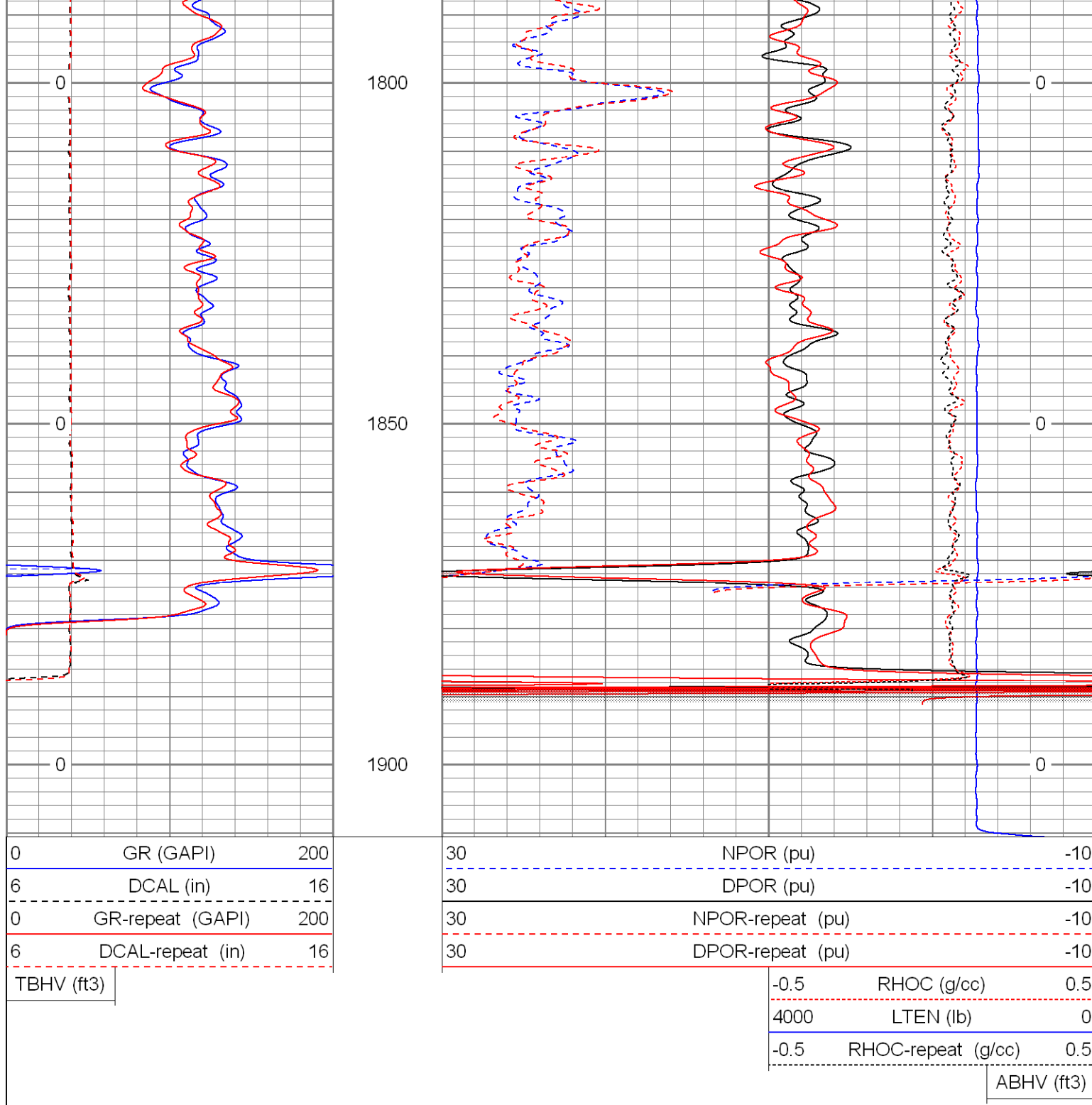
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Repeat Pass

Database File: xtoge29-09-2.db
 Dataset Pathname: pass2.1
 Presentation Format: cdnl
 Dataset Creation: Wed Jan 23 14:55:42 2008 by Calc Open-Cased 070814
 Charted by: Depth in Feet scaled 1:240





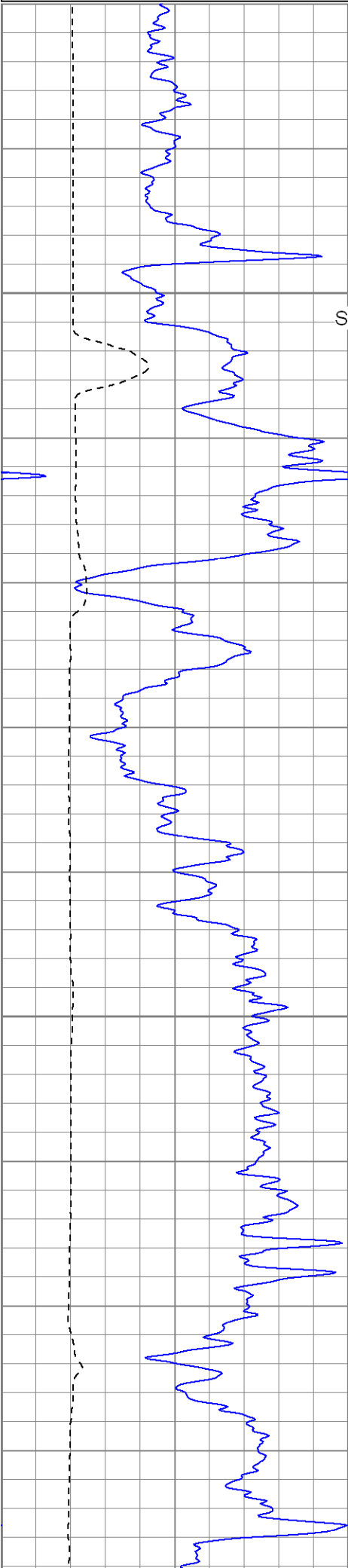
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High Resolution Pass

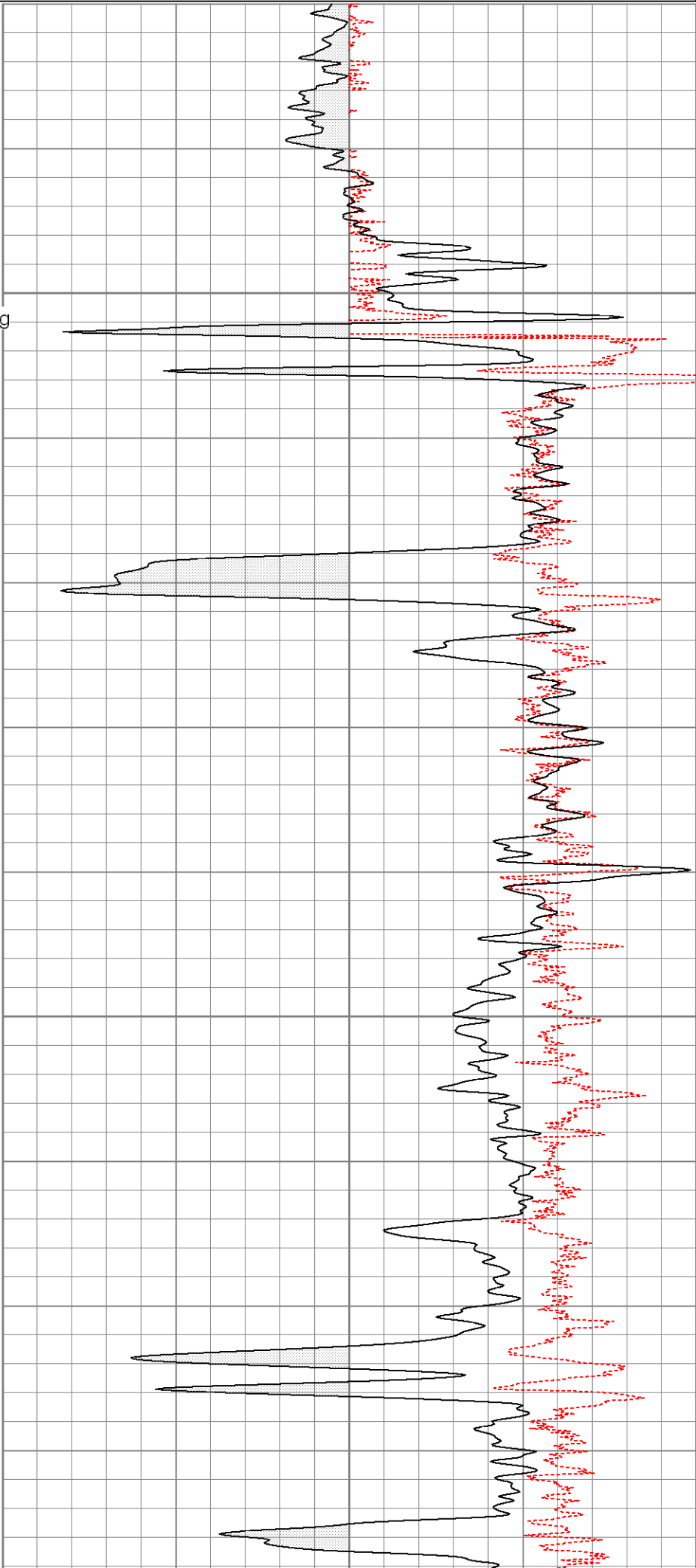
Database File: xtoge29-09-2.db
Dataset Pathname: pass3.2
Presentation Format: cdlhr
Dataset Creation: Thu Jan 24 07:35:24 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

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



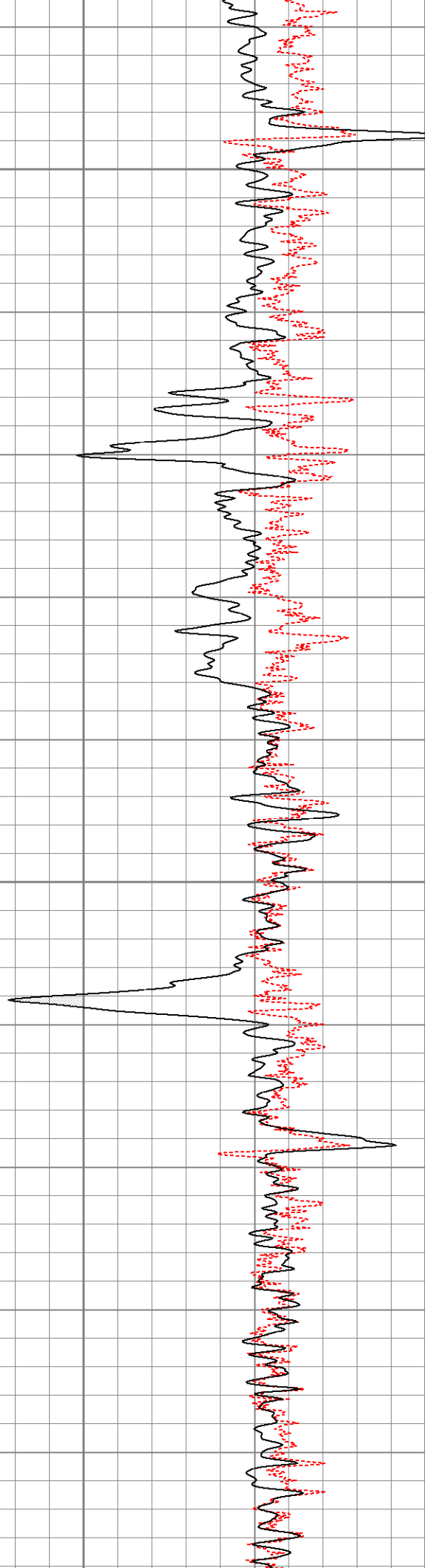
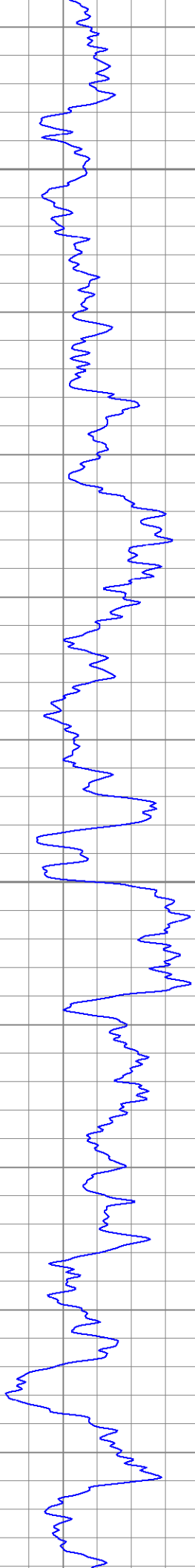
450
Surface Casing

500



550

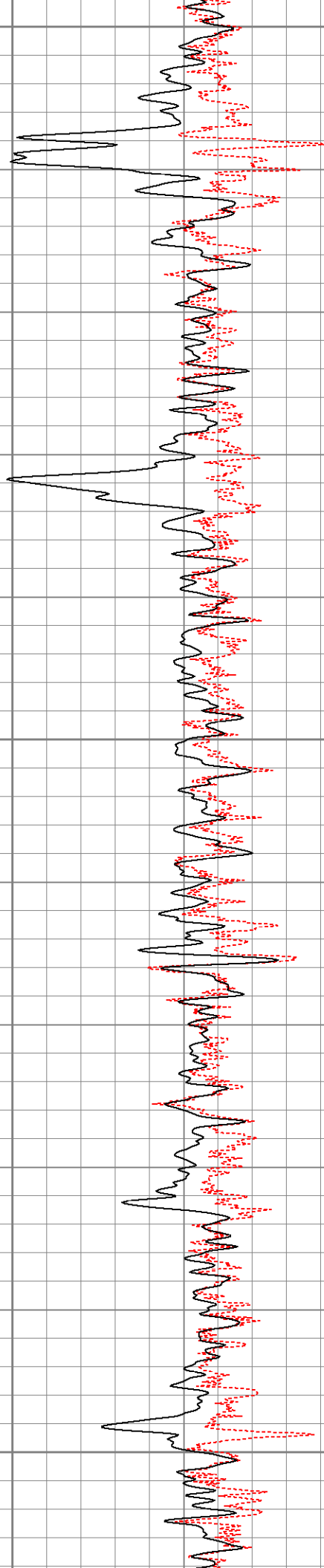
600

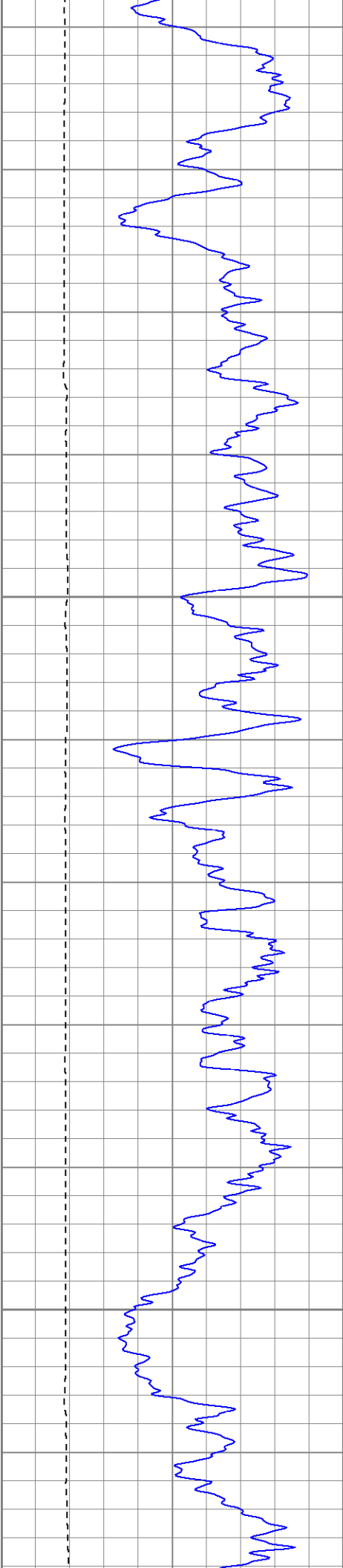


650

700

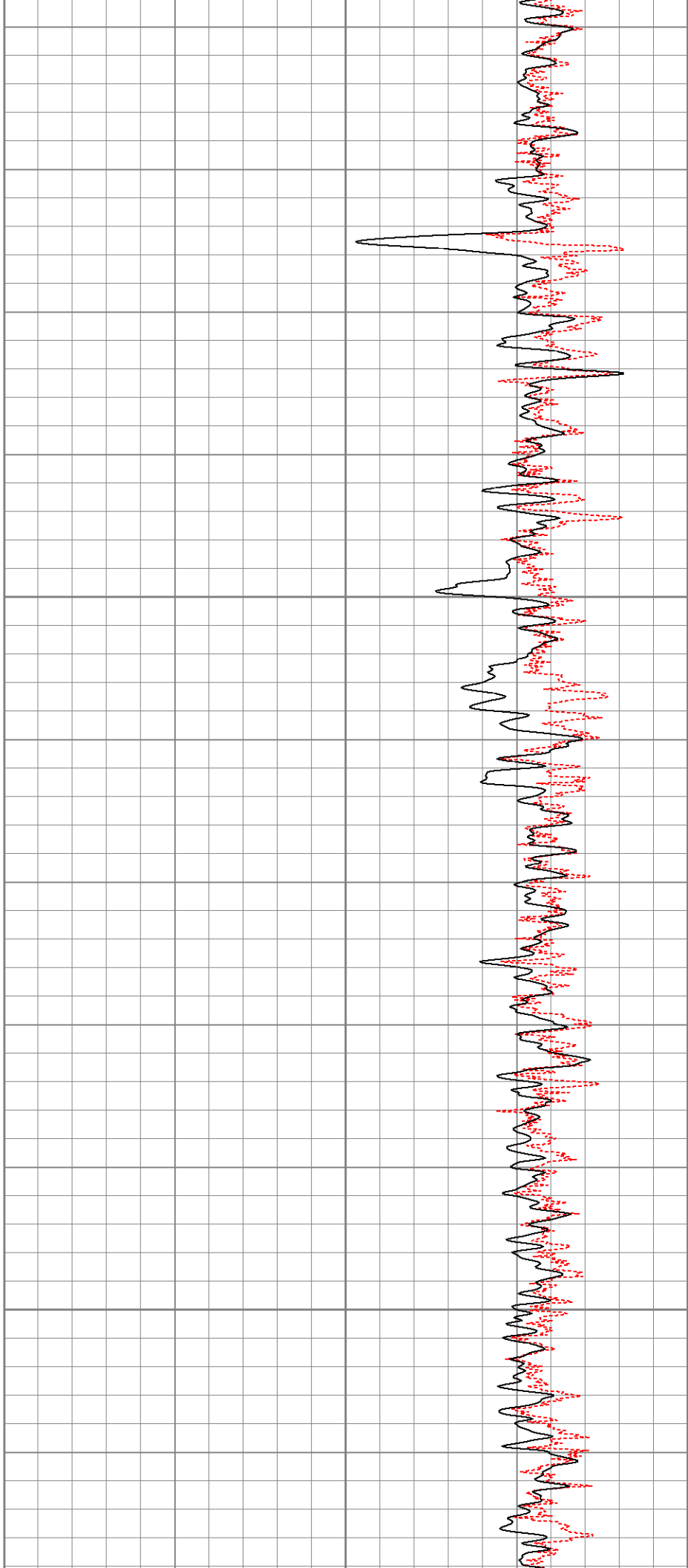
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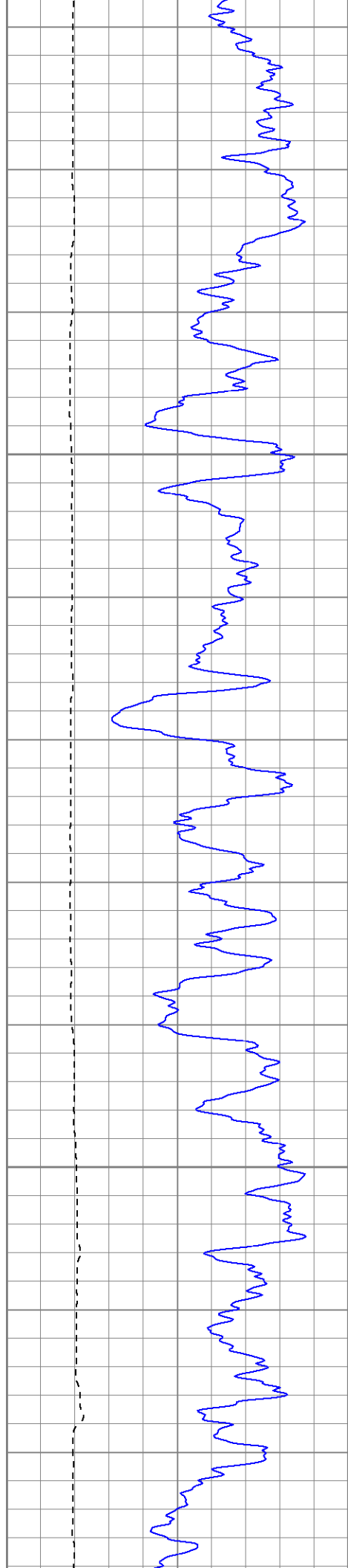




800

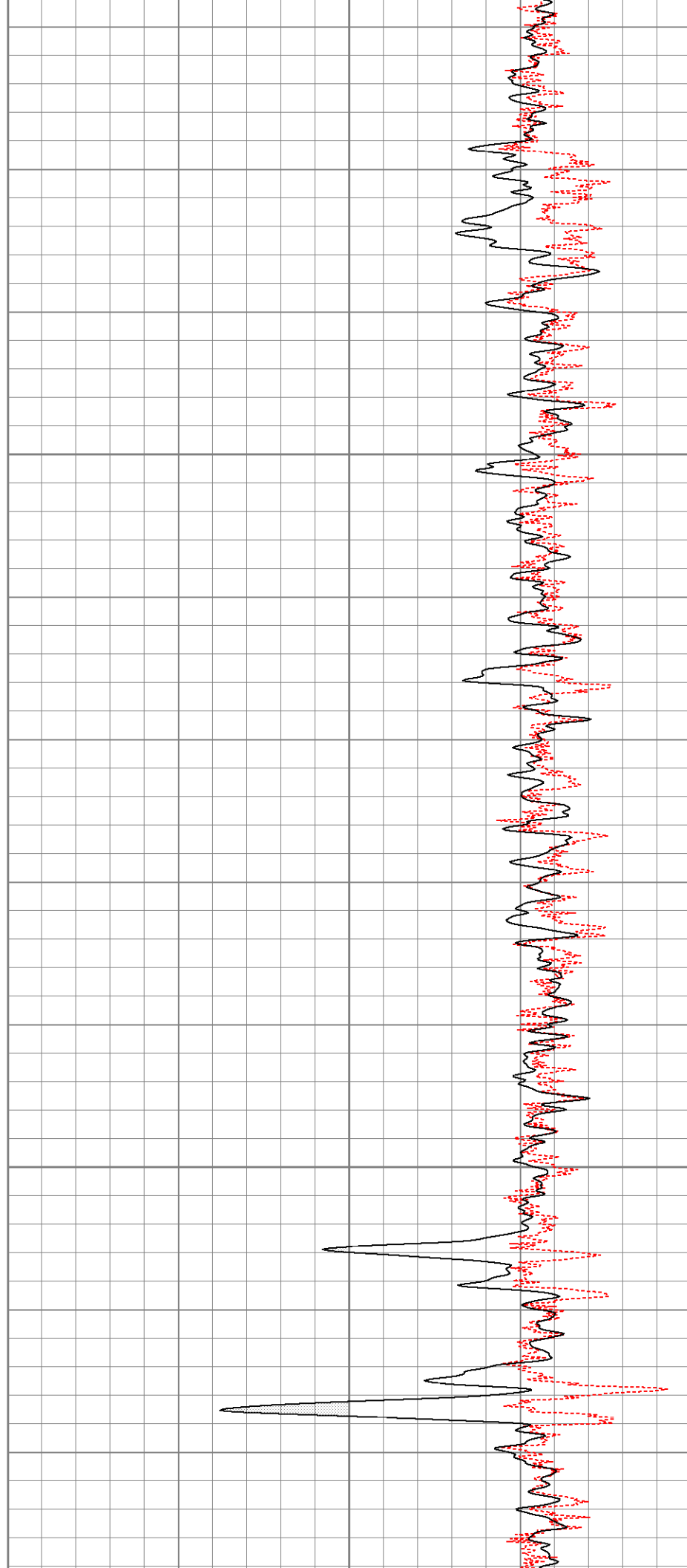
850

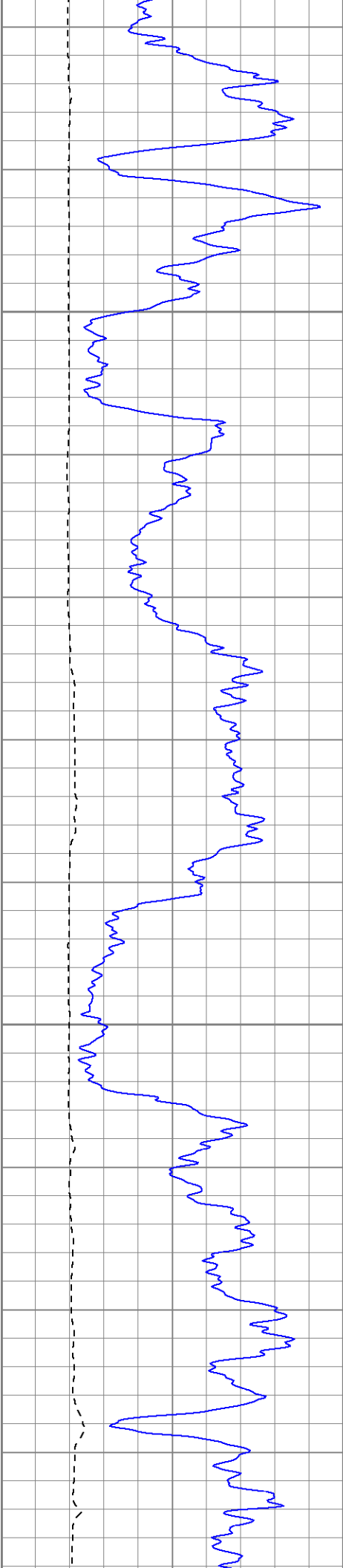




900

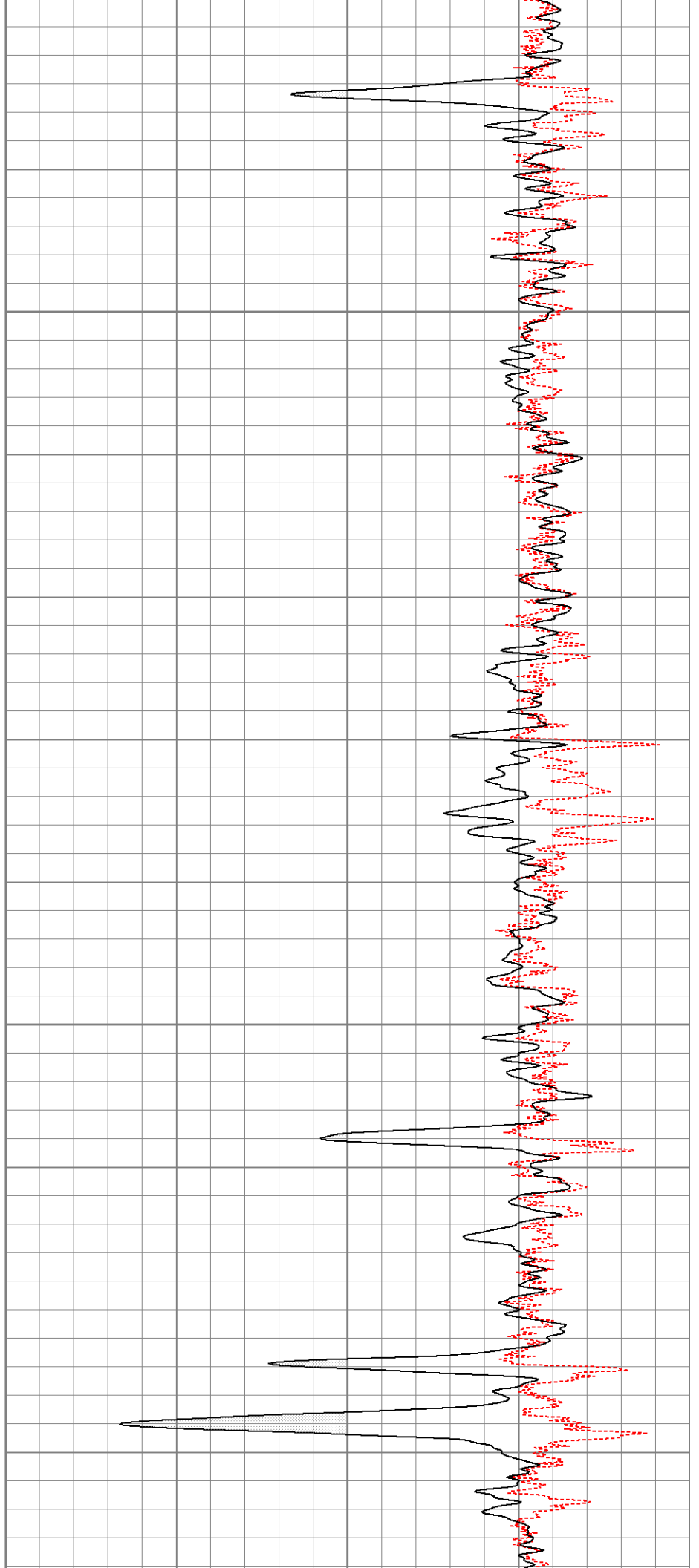
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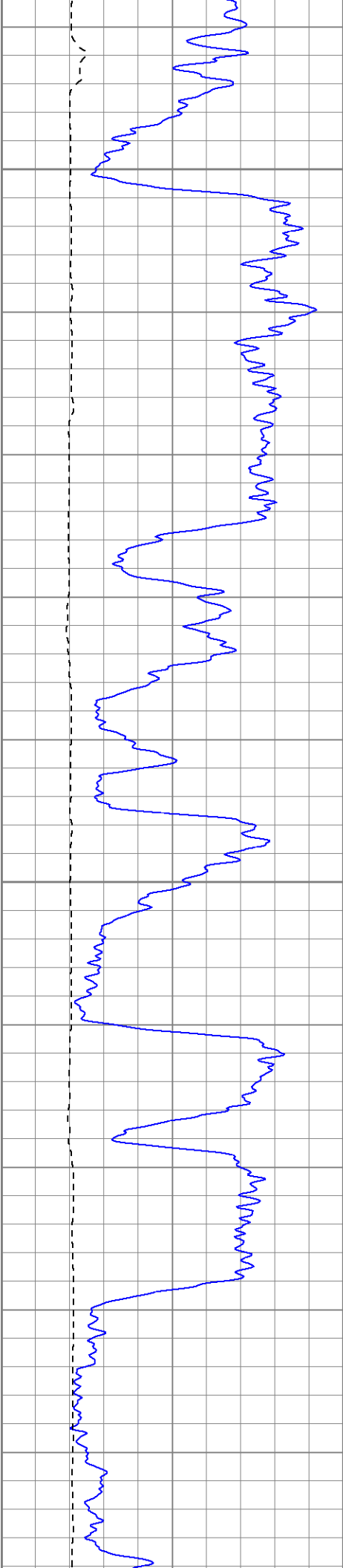




1000

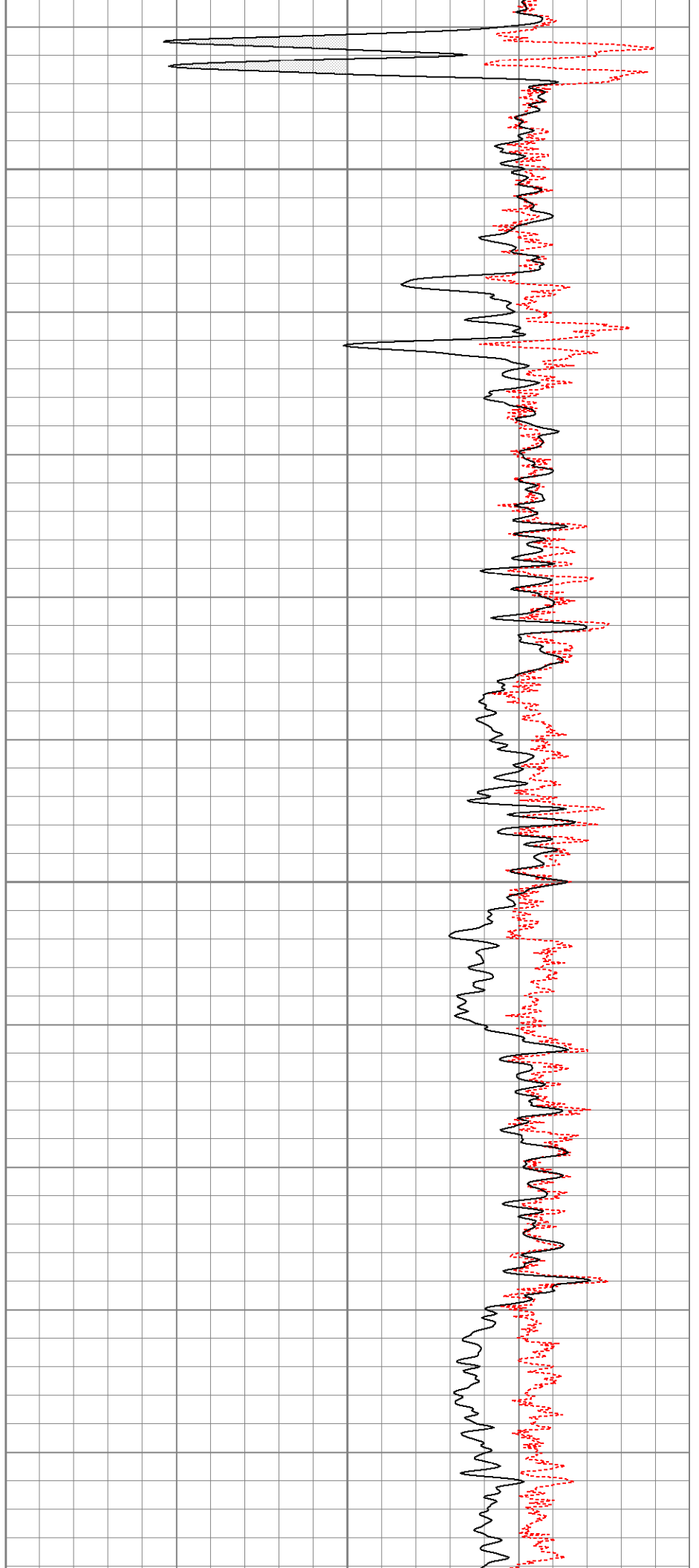
1050





1100

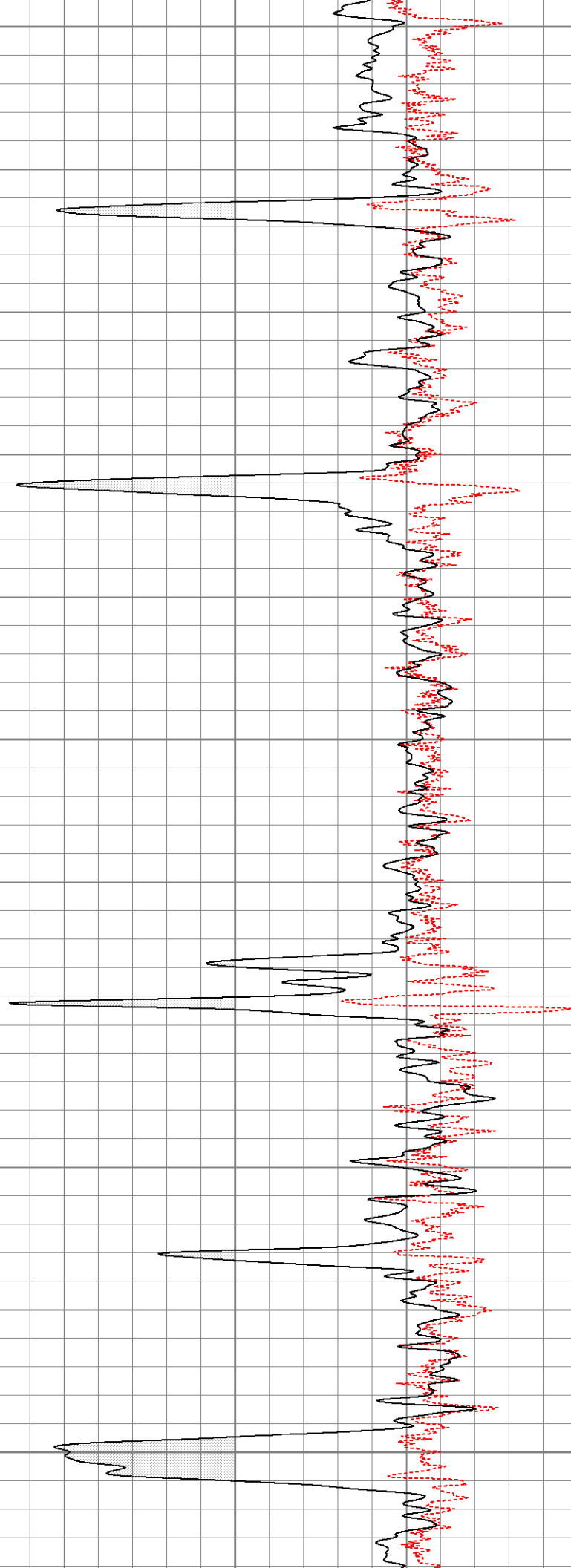
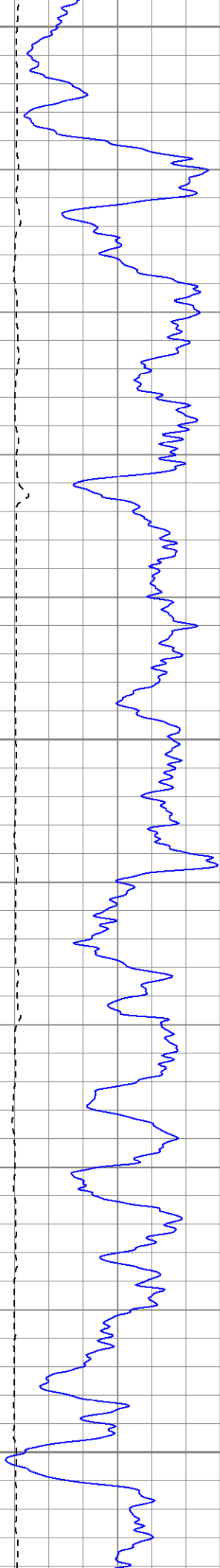
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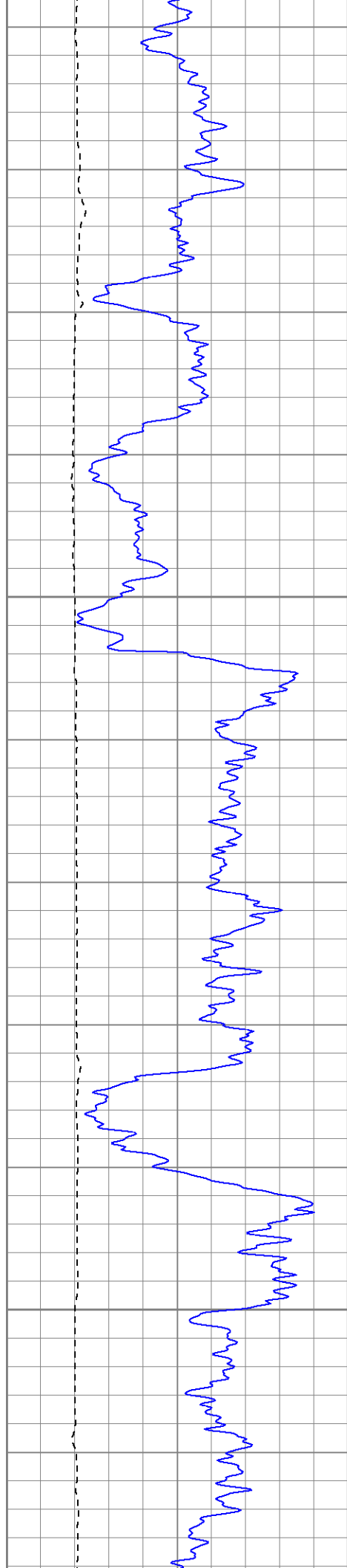


1200

1250

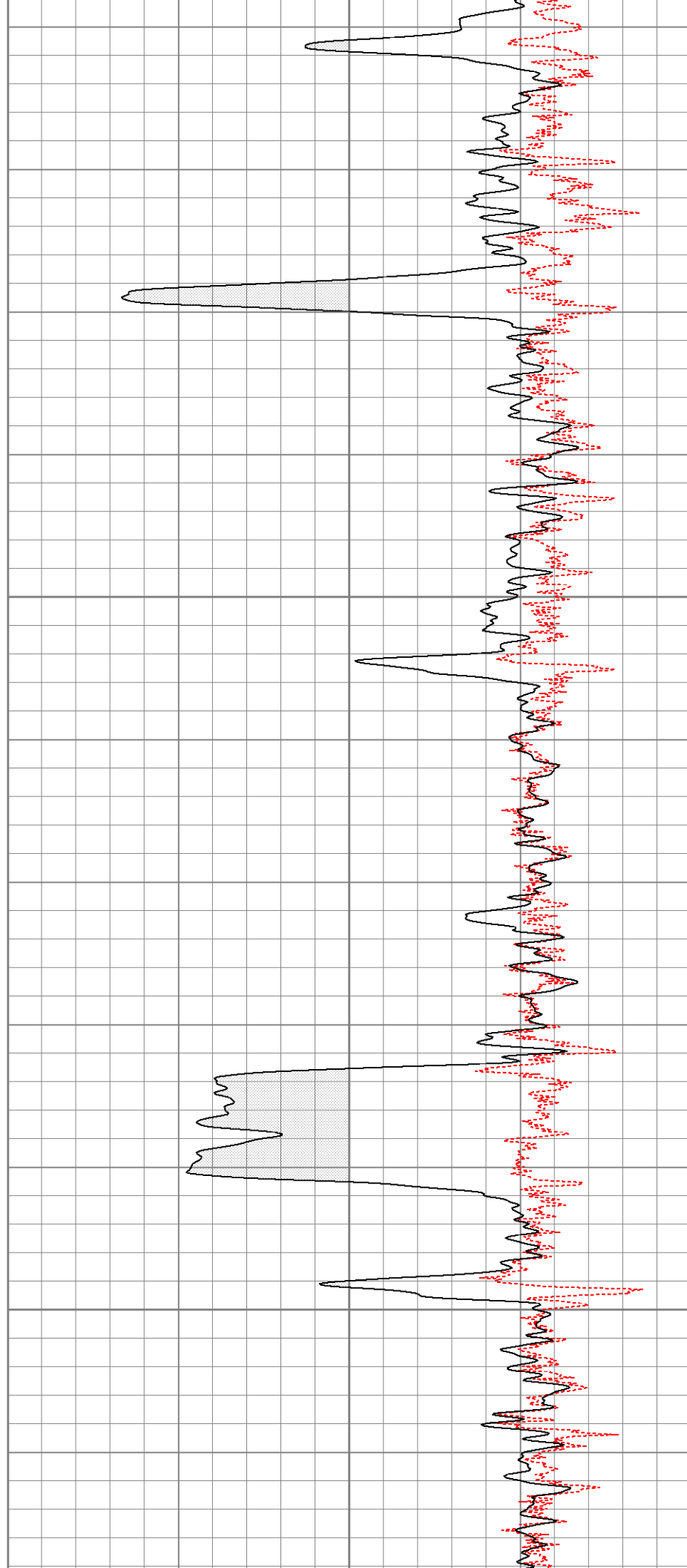
1300

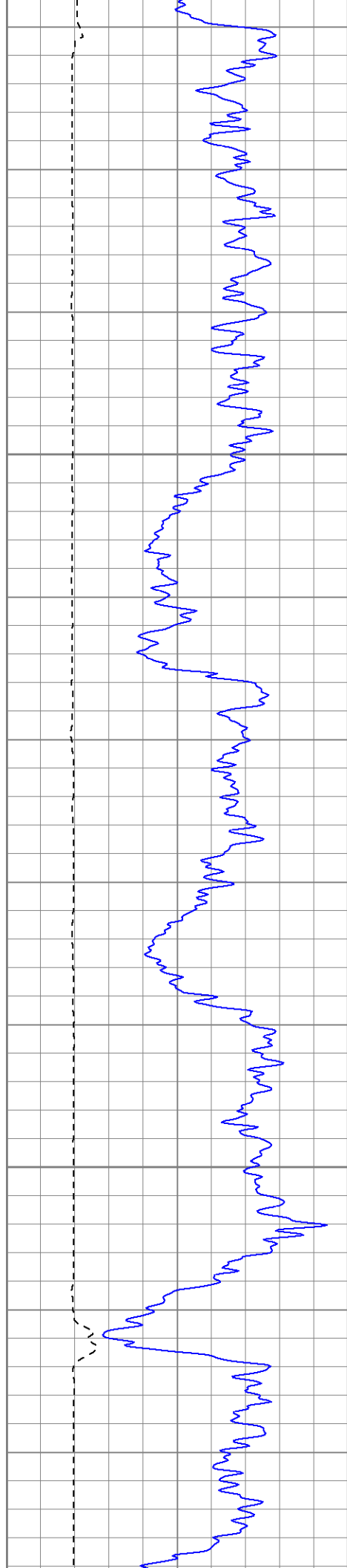




1350

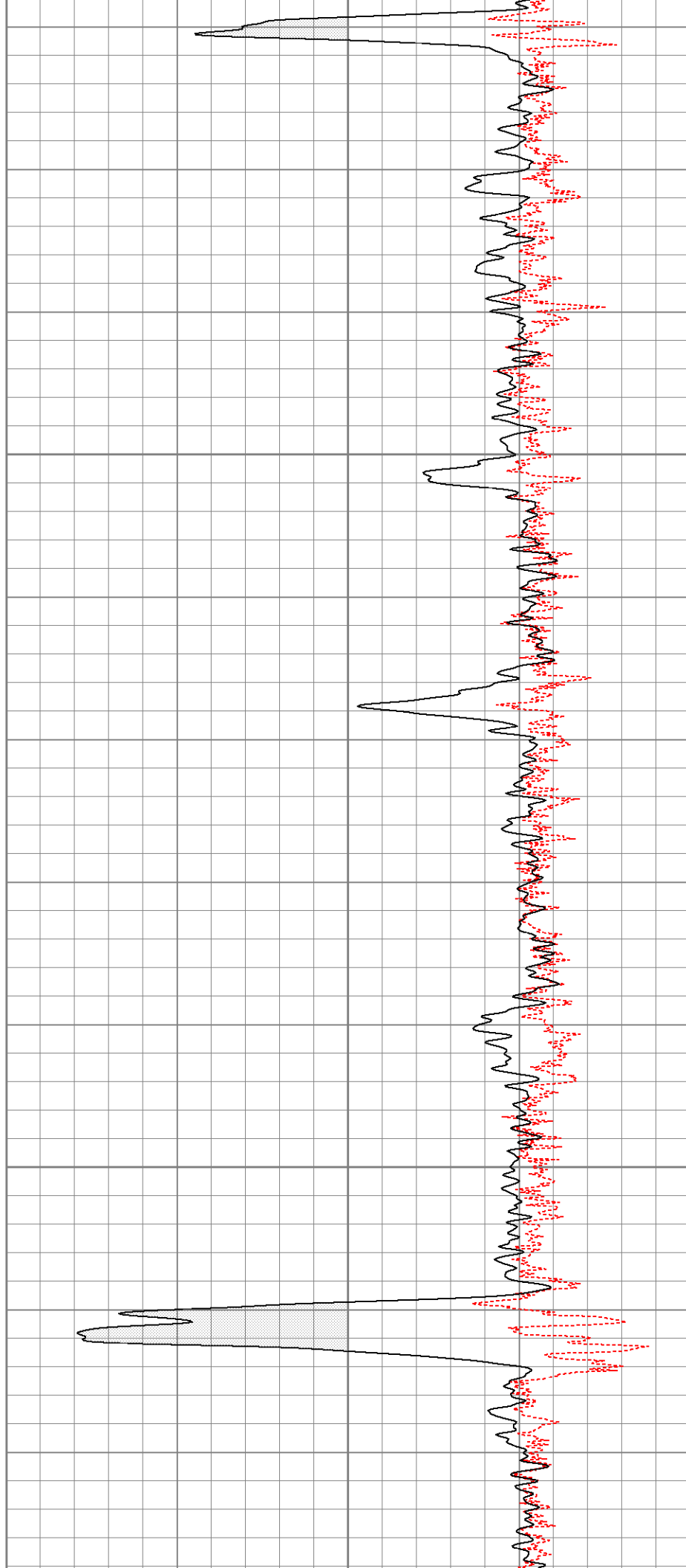
1400





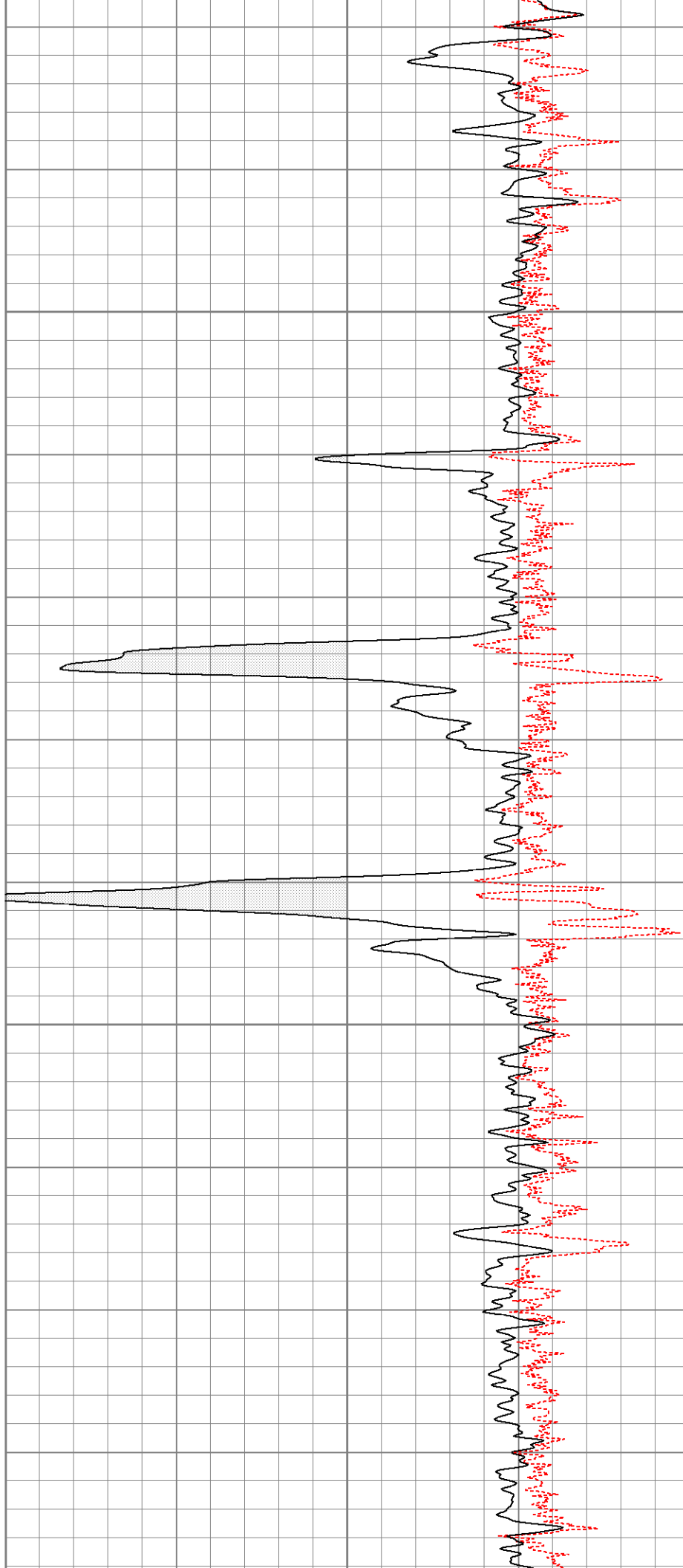
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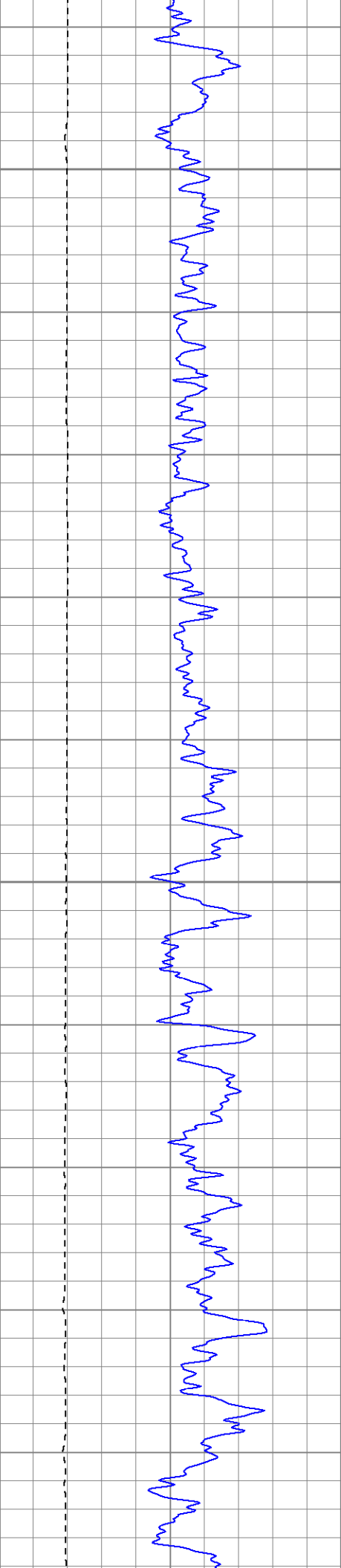
1500



1550

1600

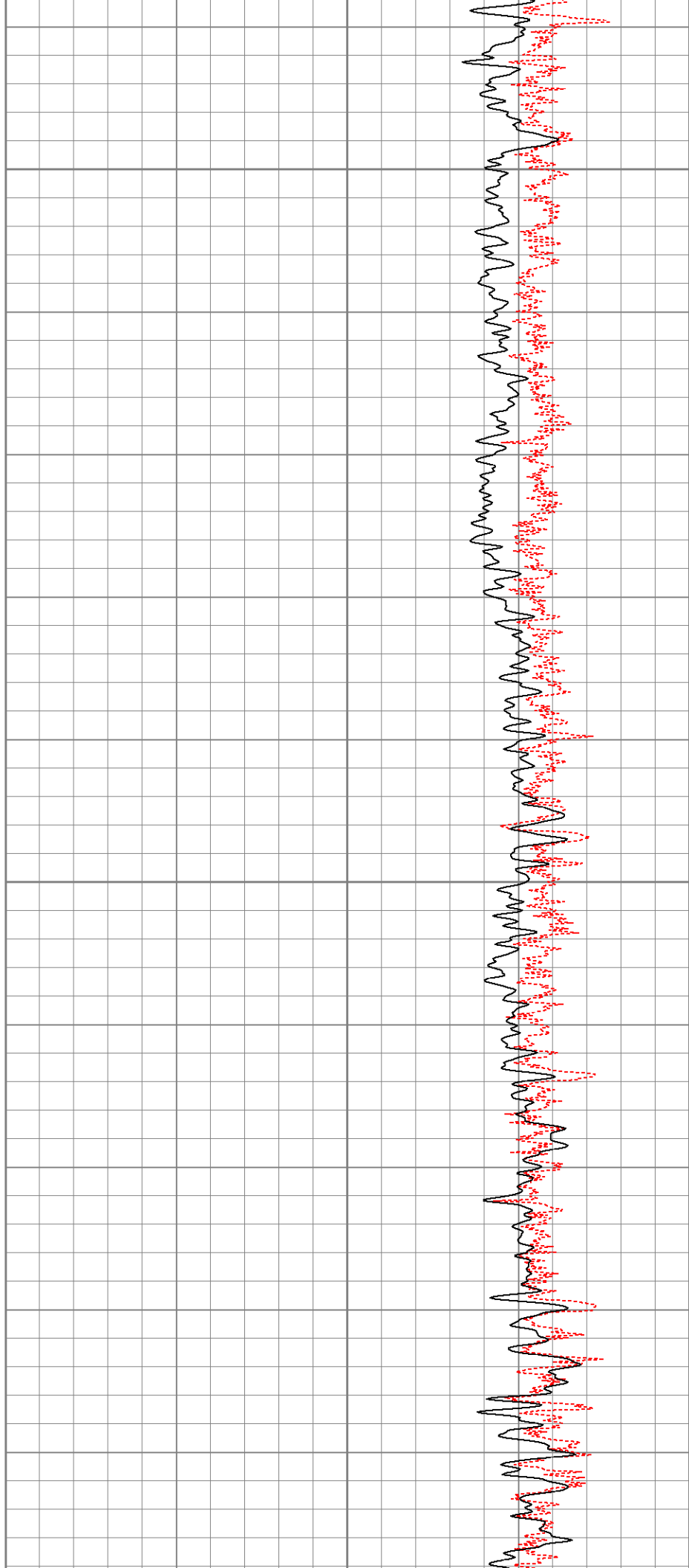




1650

1700

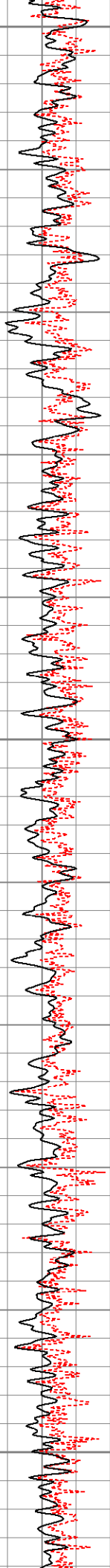
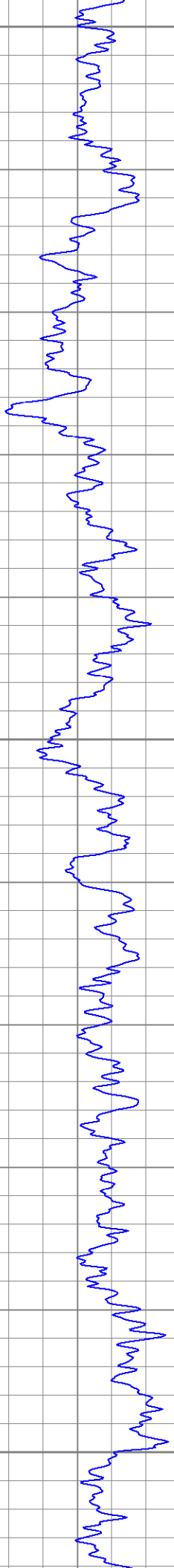
Fluid Level

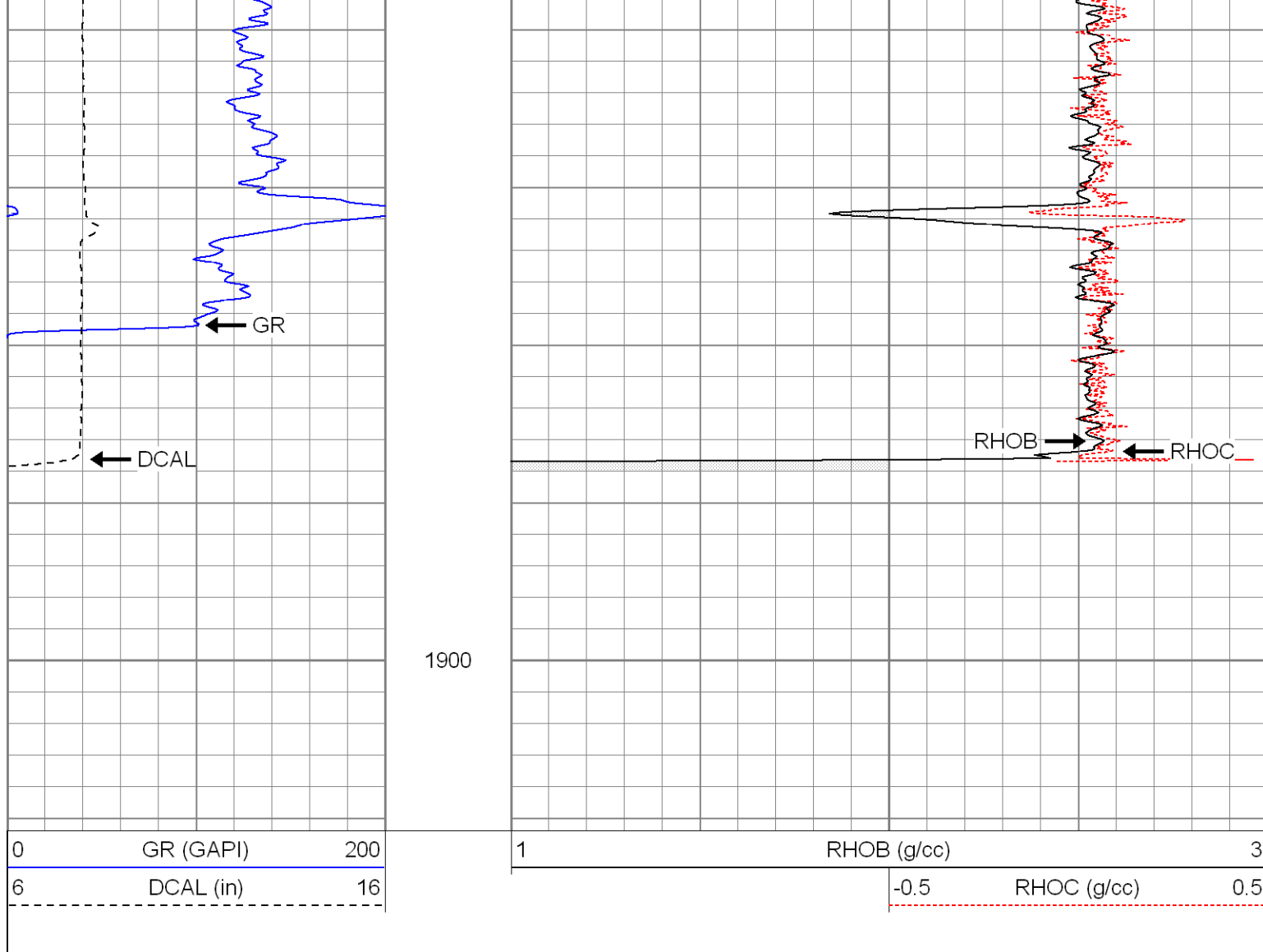


1750

1800

1850





Calibration Report

Database File: xtoge29-09-2.db
 Dataset Pathname: pass2
 Dataset Creation: Wed Jan 23 12:26:48 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

Readings References Results

Internal:	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

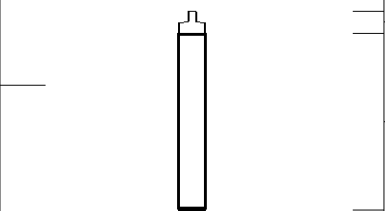
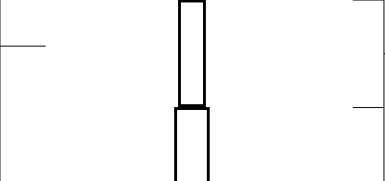
Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		718.08	683.29	cps
Aluminum	2.590	g/cc		158.70	455.82	cps
Spine Angle = 74.99			Density/Spine Ratio = 0.563			
	Size			Reading		
Small Ring	9.10	in		4.48	V	
Large Ring	14.00	in		8.06	V	

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

