



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well New Elk 25-10-2
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09604 00

2200' FSL & 2369' FEL

SEC 25 TWP 33S RGE 68W

Permanent Datum Ground Level Elevation 7408'
Log Measured From Ground Level
Drilling Measured From Ground Level

Other Services
dill
Elevation
K.B. -----
D.F. -----
G.L. 7408'

Date	6-22-08		
Run Number	One		
Depth Driller	1850'		
Depth Logger	1855'		
Bottom Logged Interval	1838'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 632'		
Casing Logger	627'		
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	2:00 P.M.		
Time Logger on Bottom	5:45 P.M.		
Maximum Recorded Temperature	96 DEG F		
Equipment Number	T0701		
Location	Trinidad		
Recorded By	C. Sinerros		
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

Compensated 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 two locations, at Y at 2 green gates, stay left, thru green gate, end on first drive thru location.

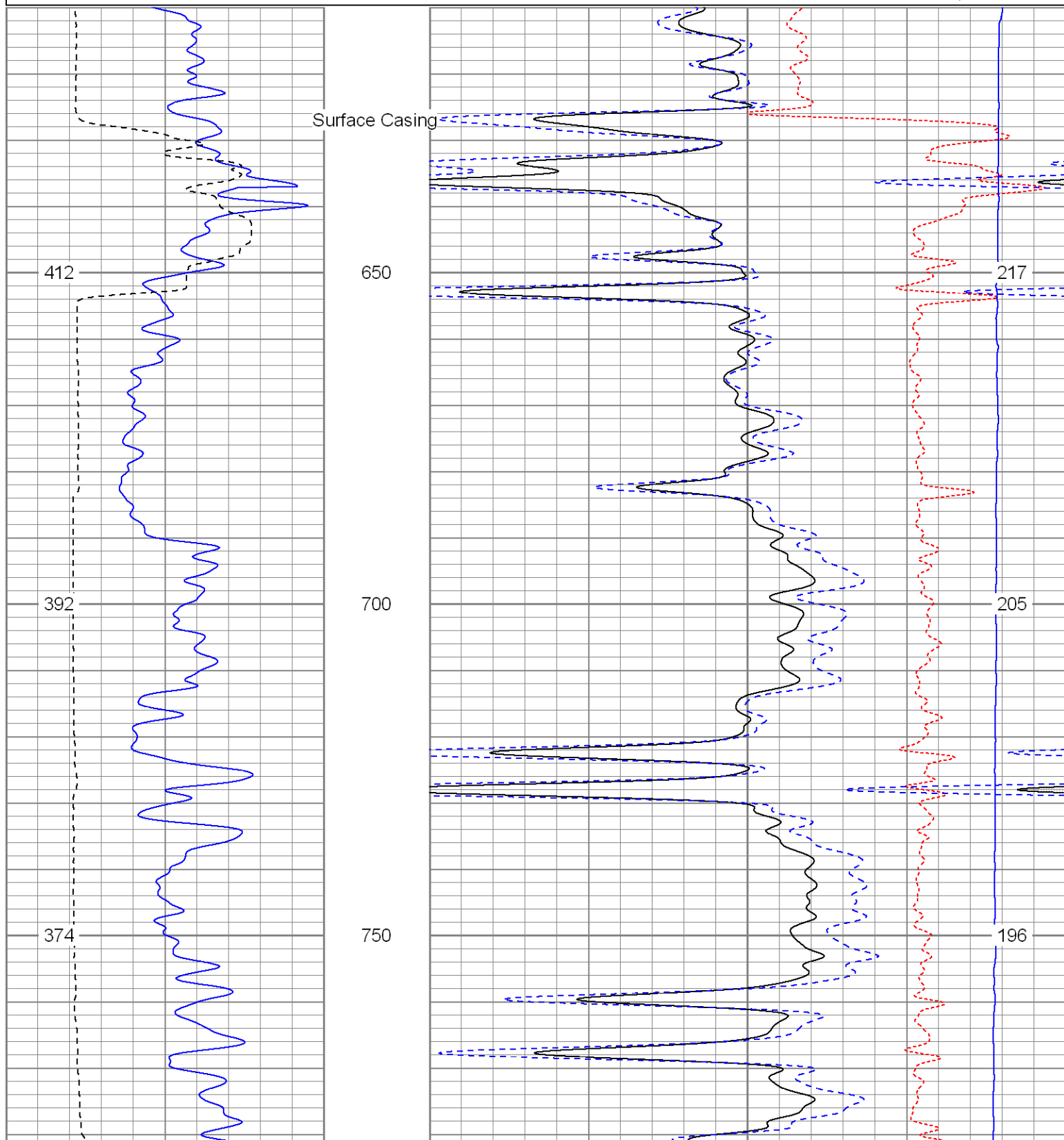


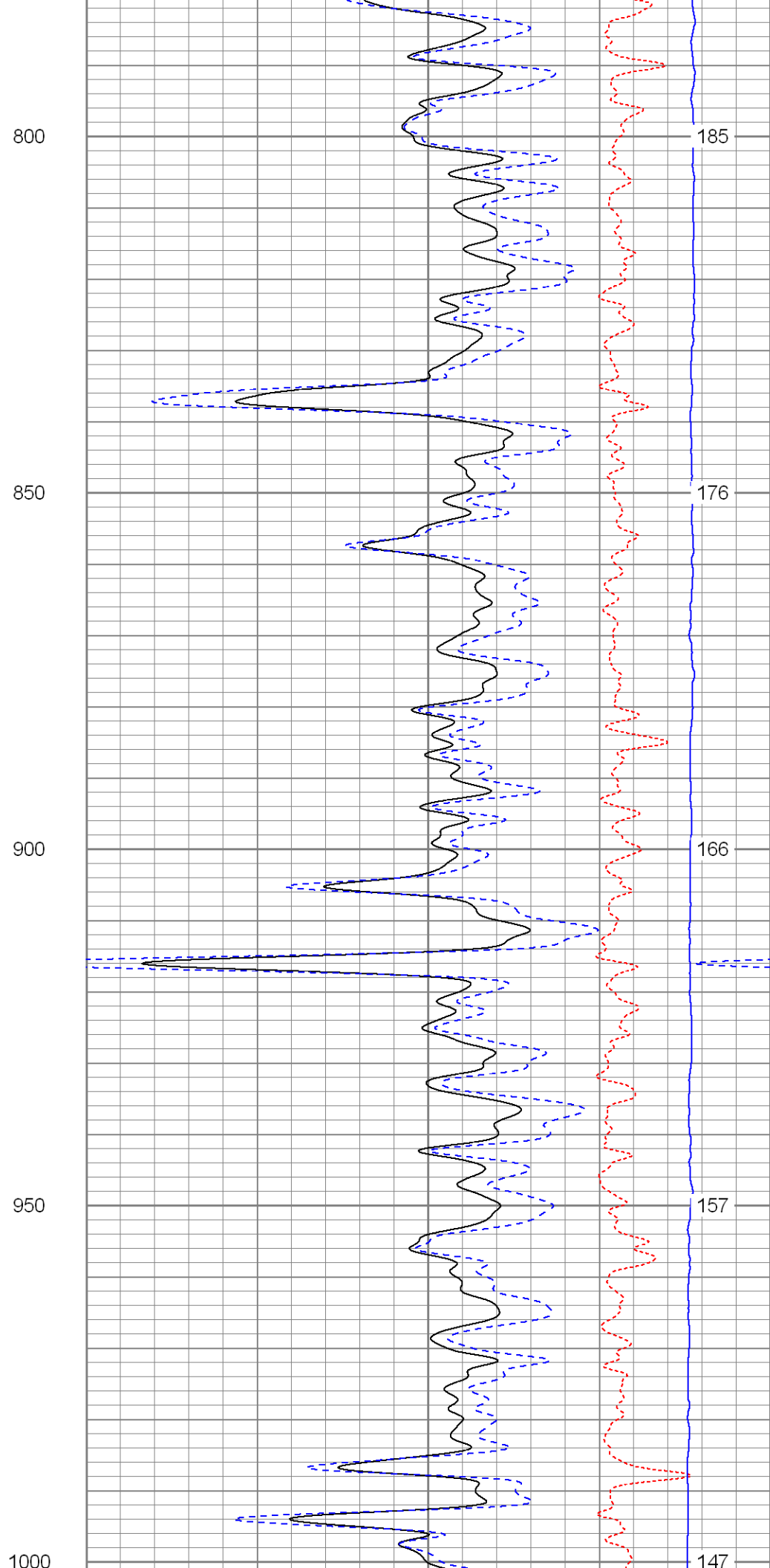
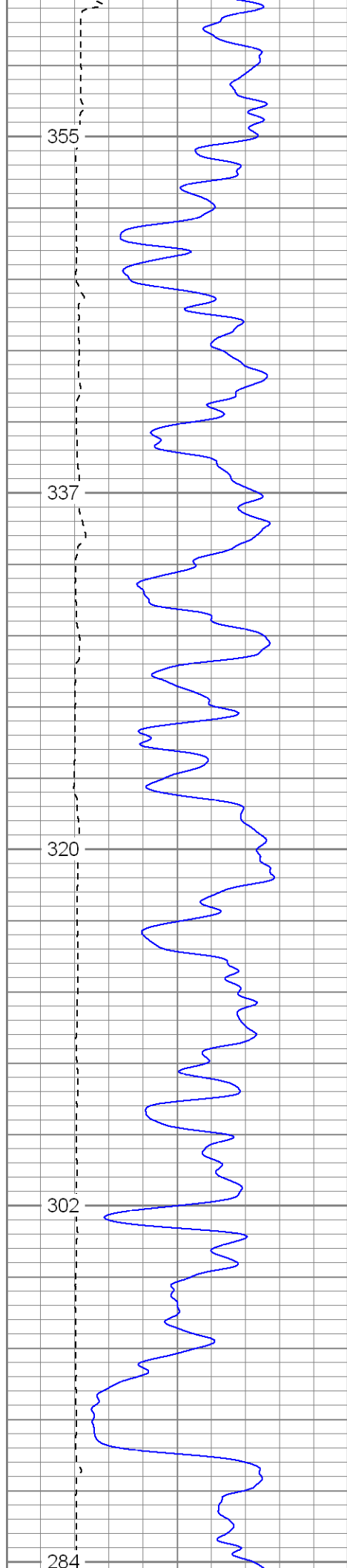
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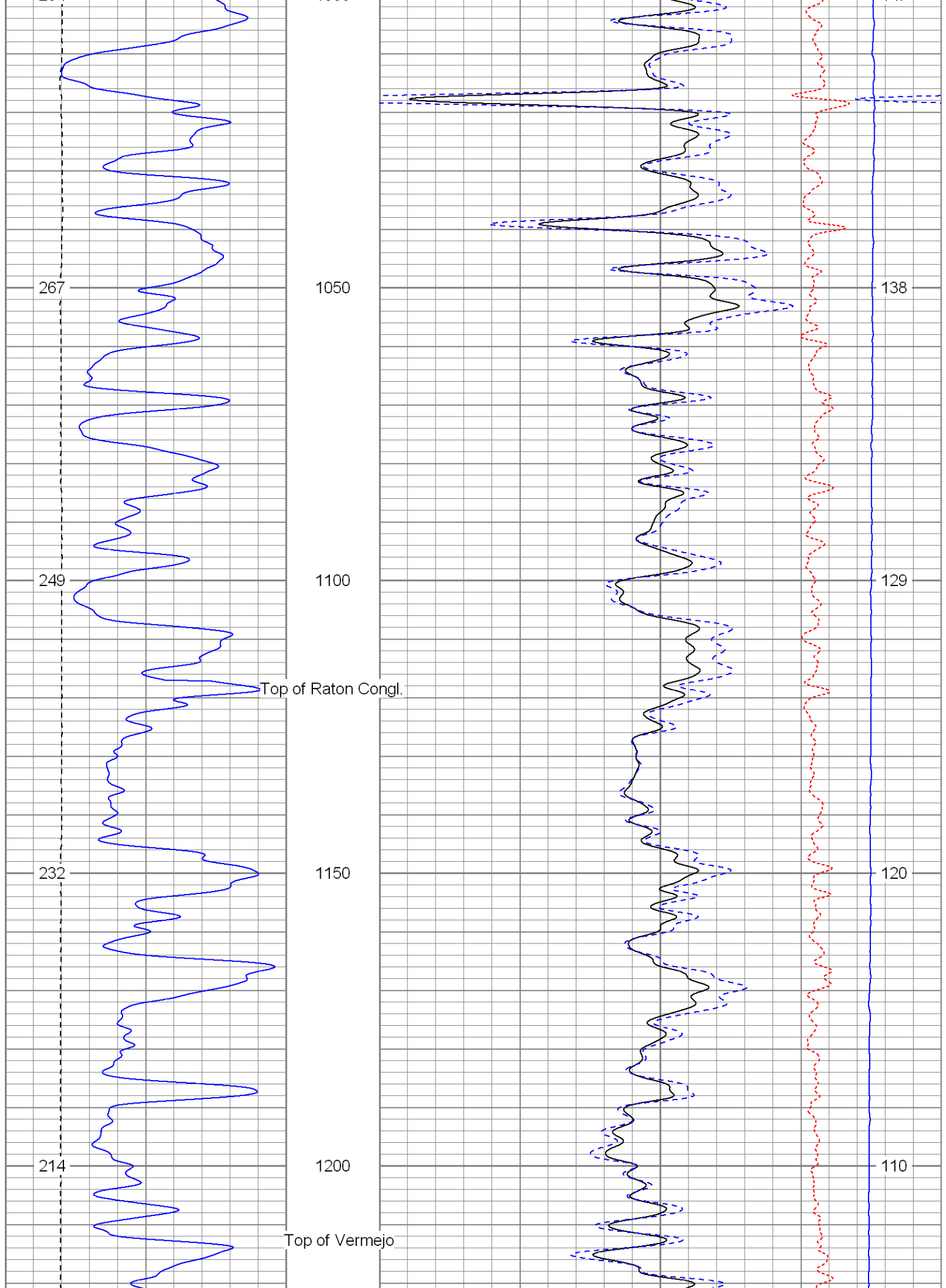
Main Pass

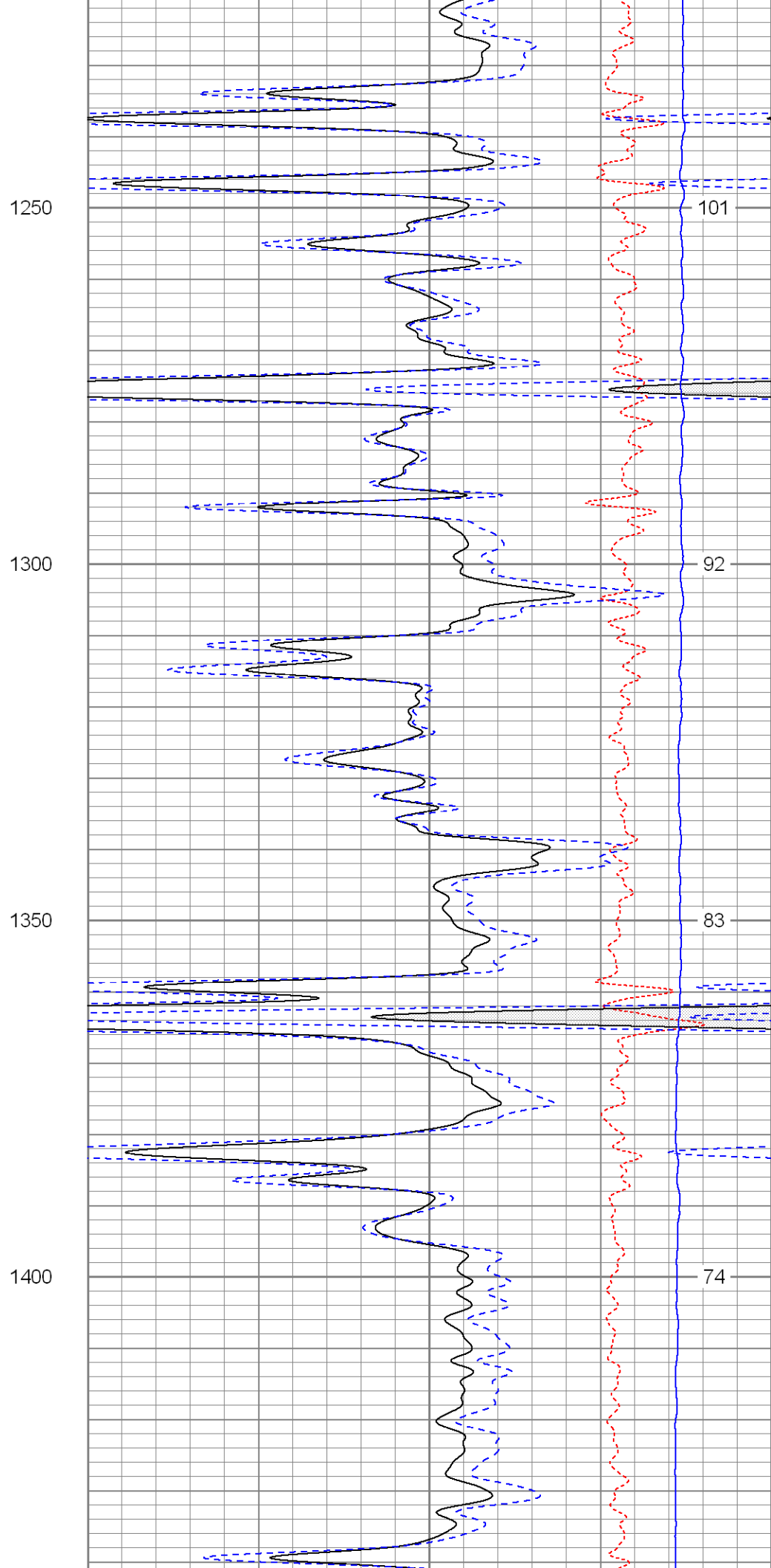
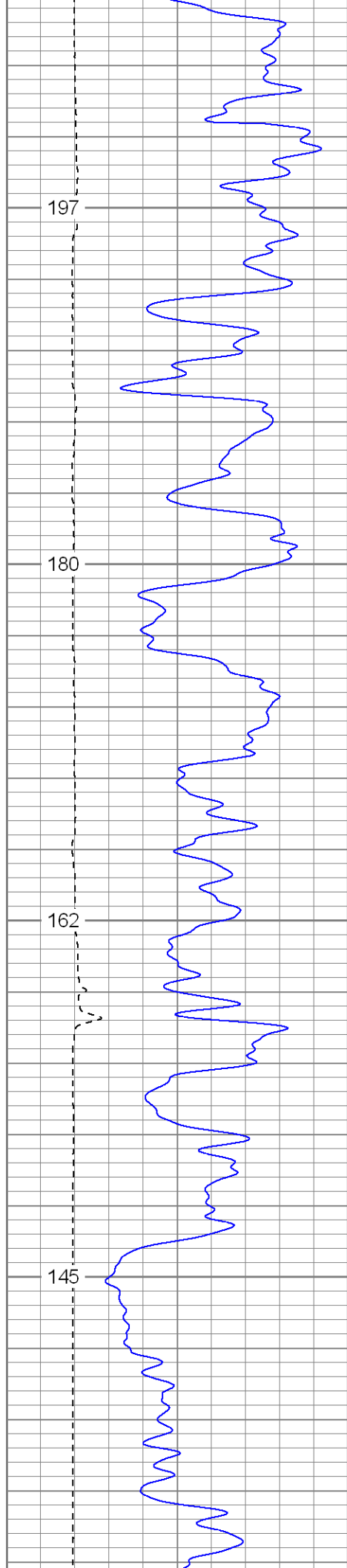
Database File: xtone25102.db
Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Mon Jun 23 08:04:56 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

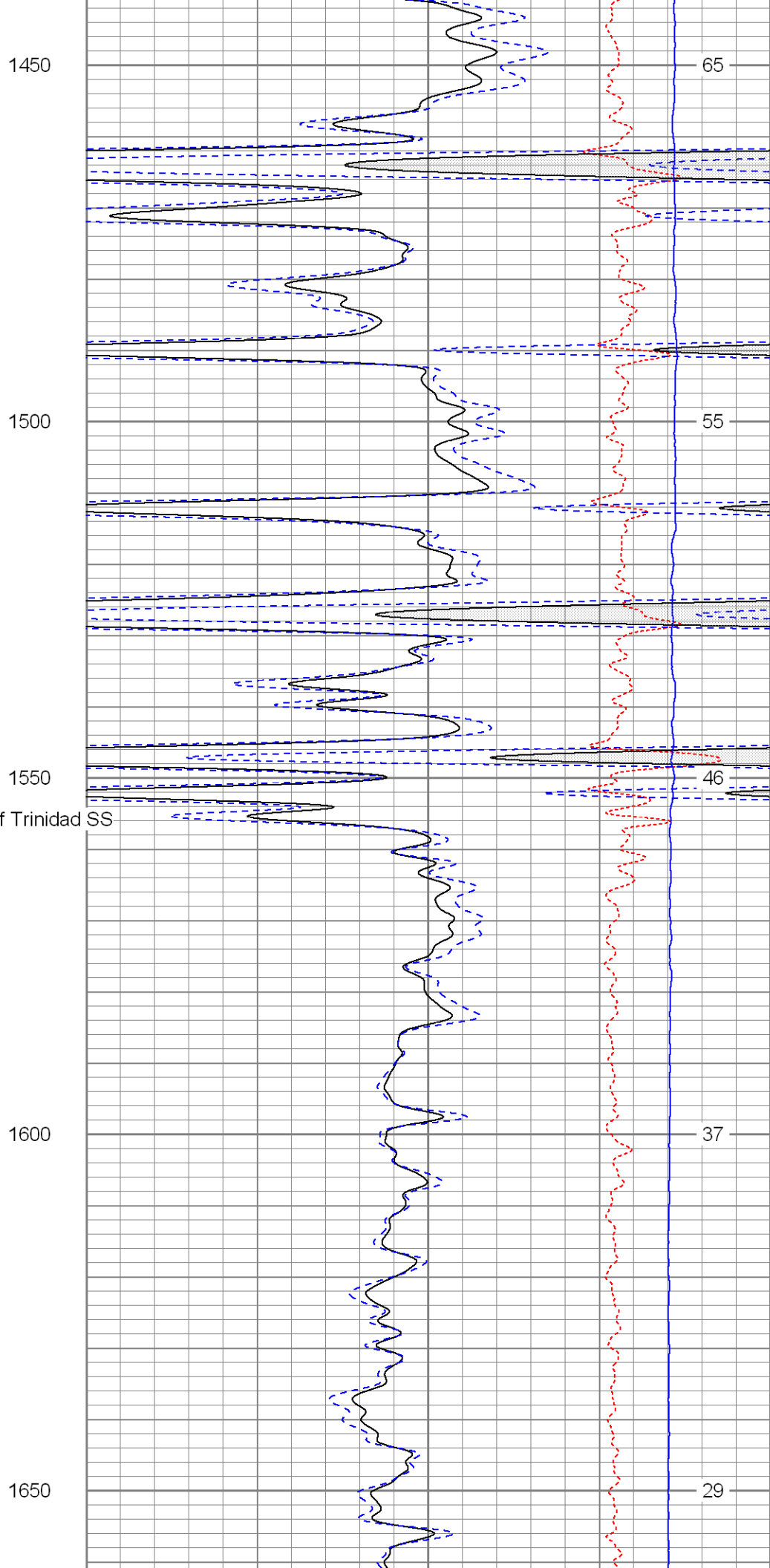
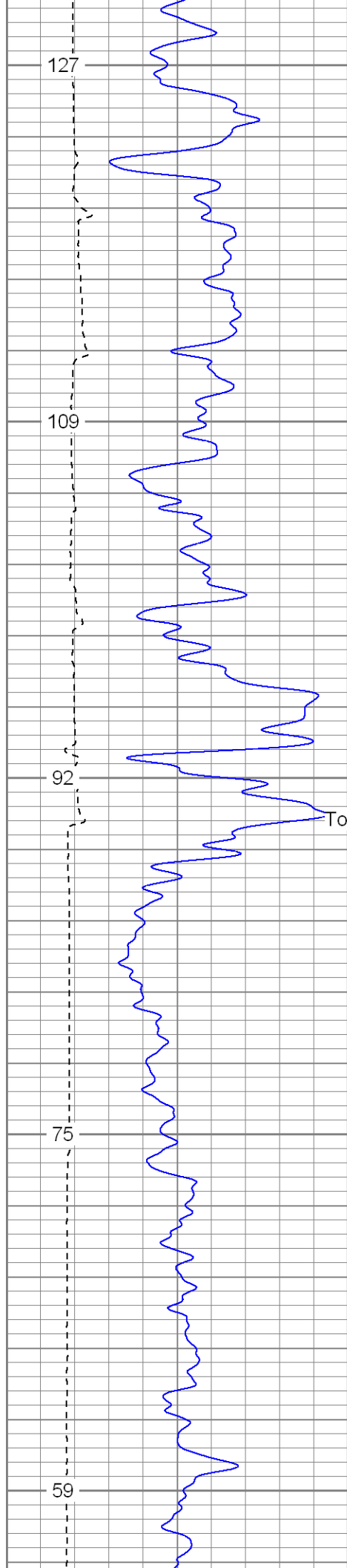
0	GR (GAPI)	200	2	RHOB (g/cc)	3
6	DCAL (in)	16	1	RHOB (g/cc)	2
TBHV (ft3)			30	DPOR (pu)	-10
			-0.5 RHOC (g/cc) 0.5		
			4000 LTEN (lb) 0		
			ABHV (ft3)		

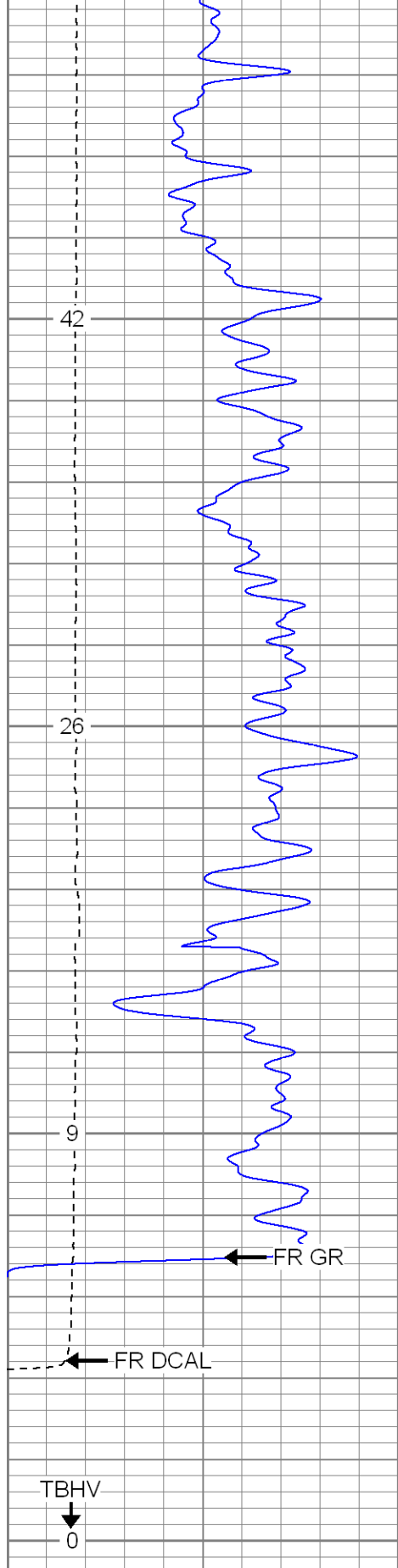




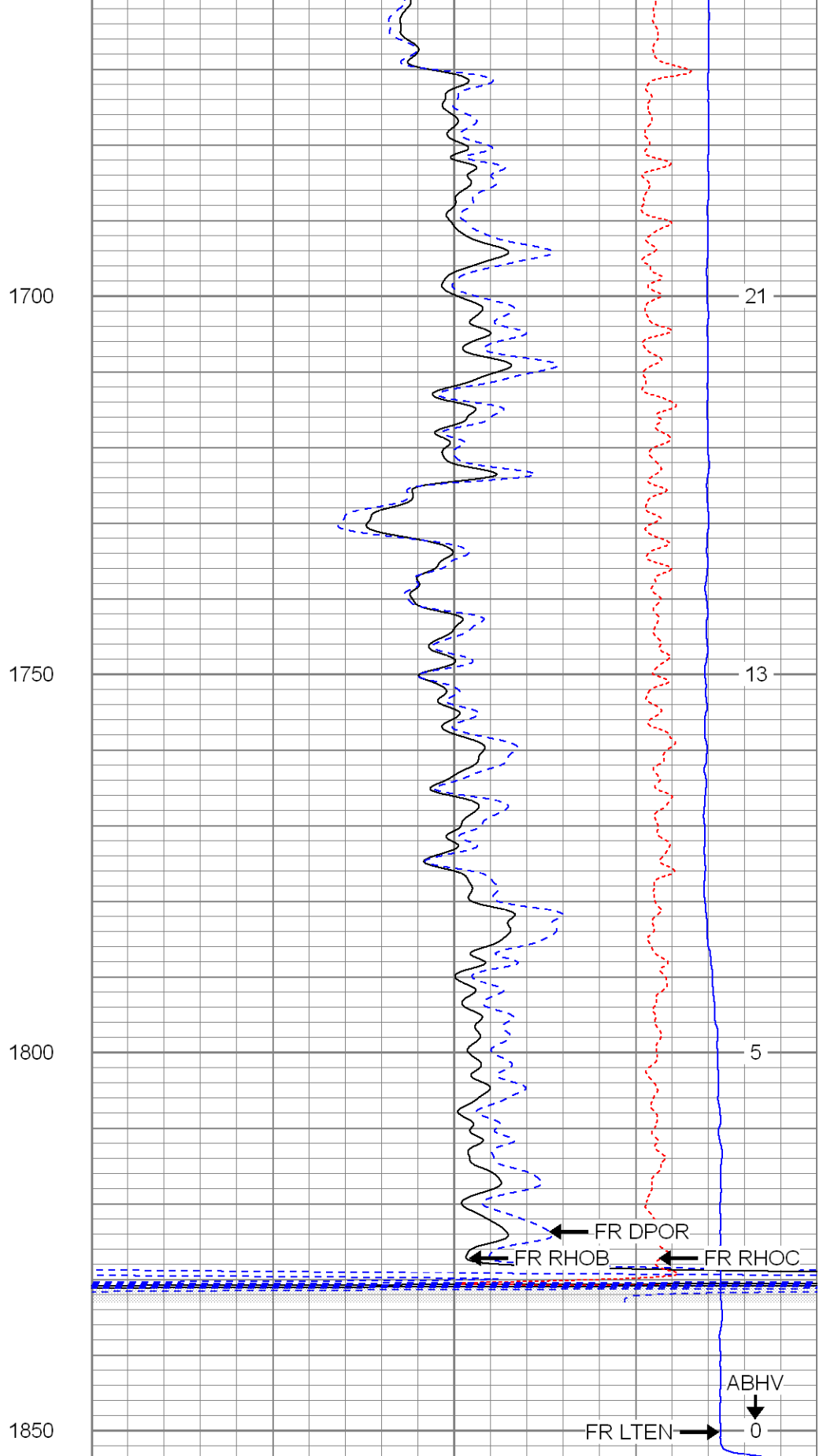








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		



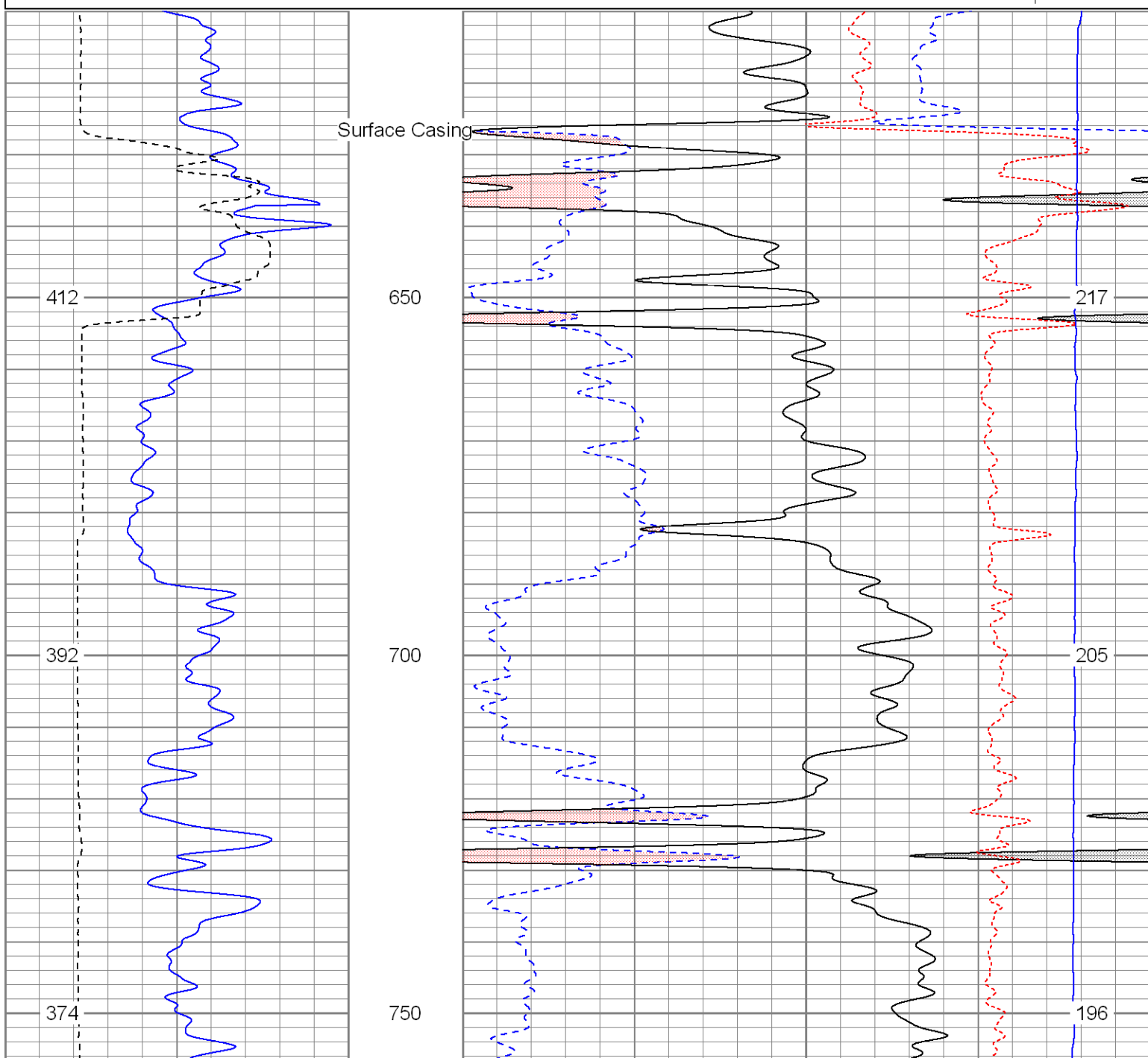
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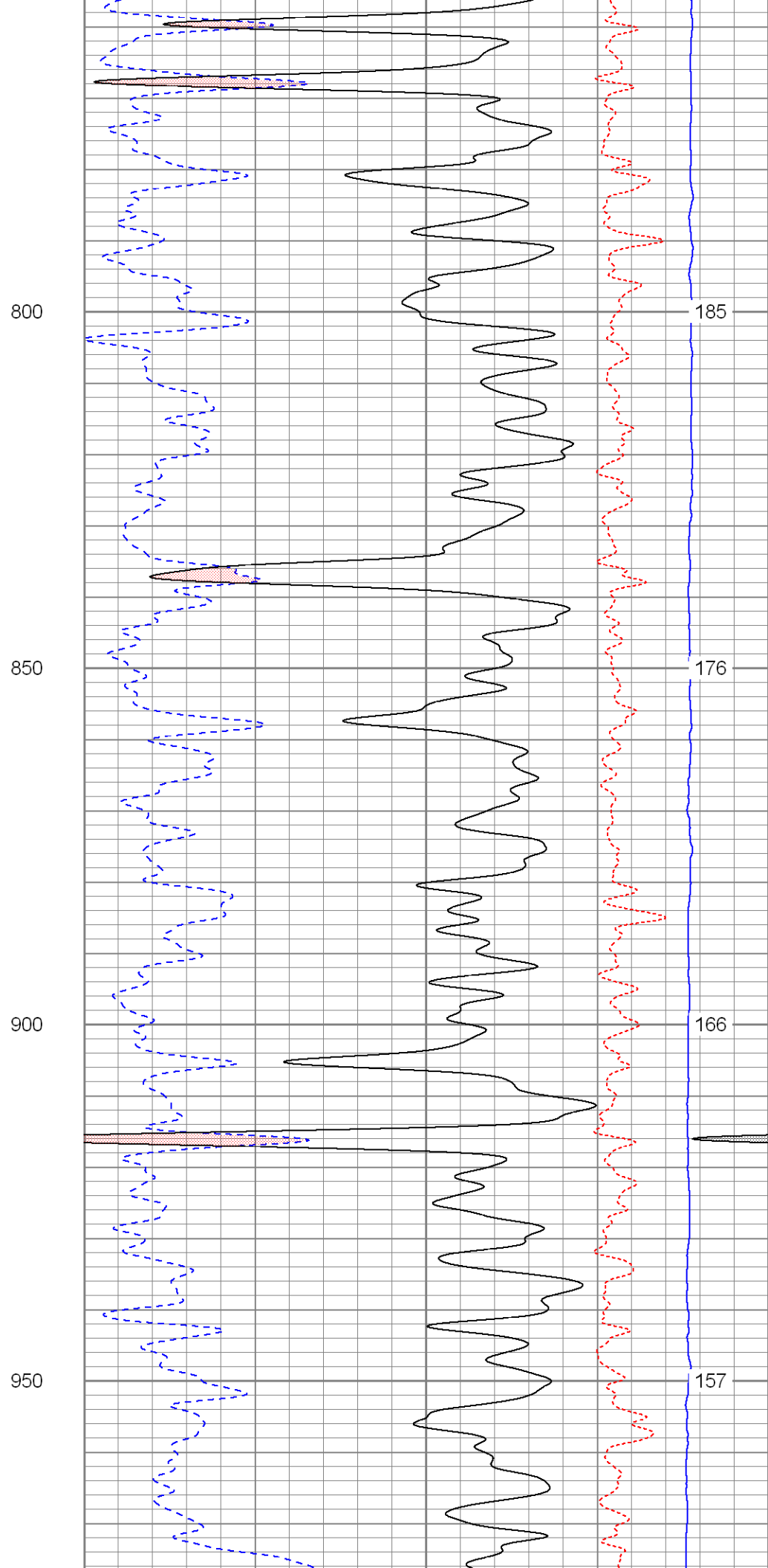
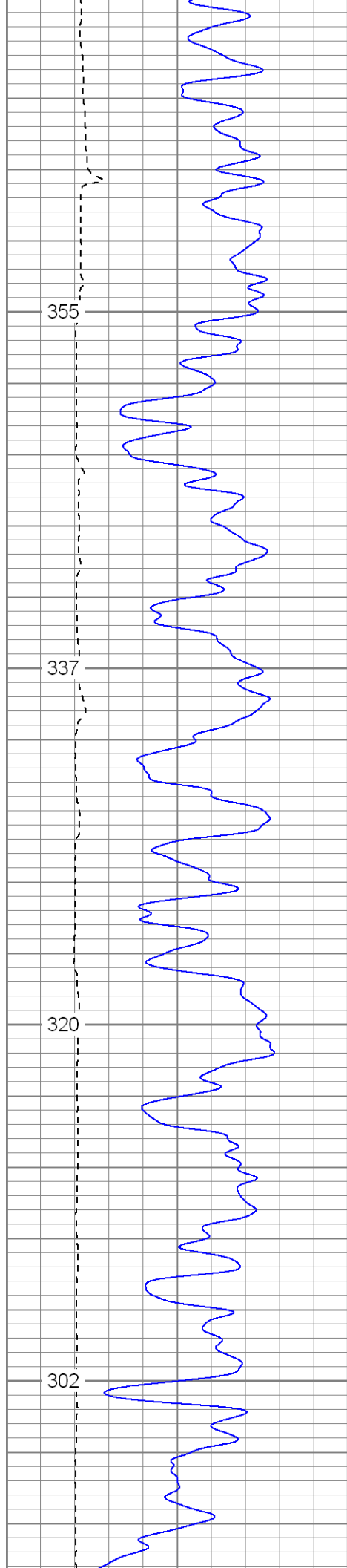
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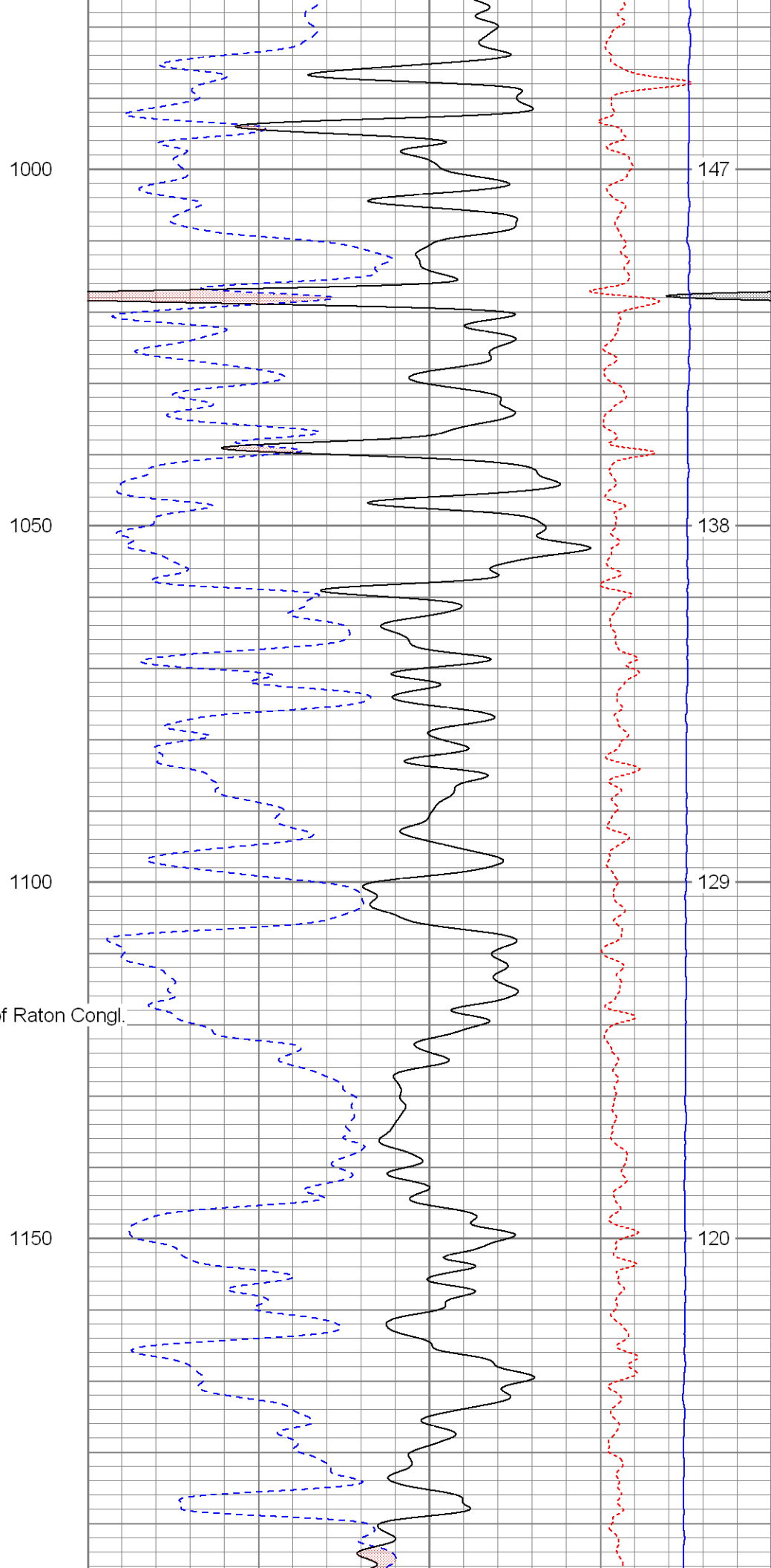
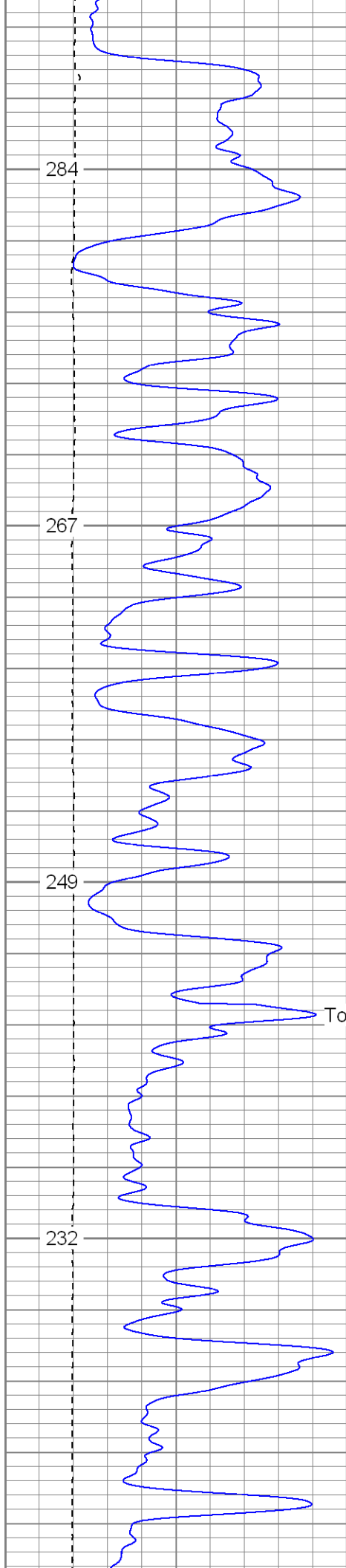
Main Pass

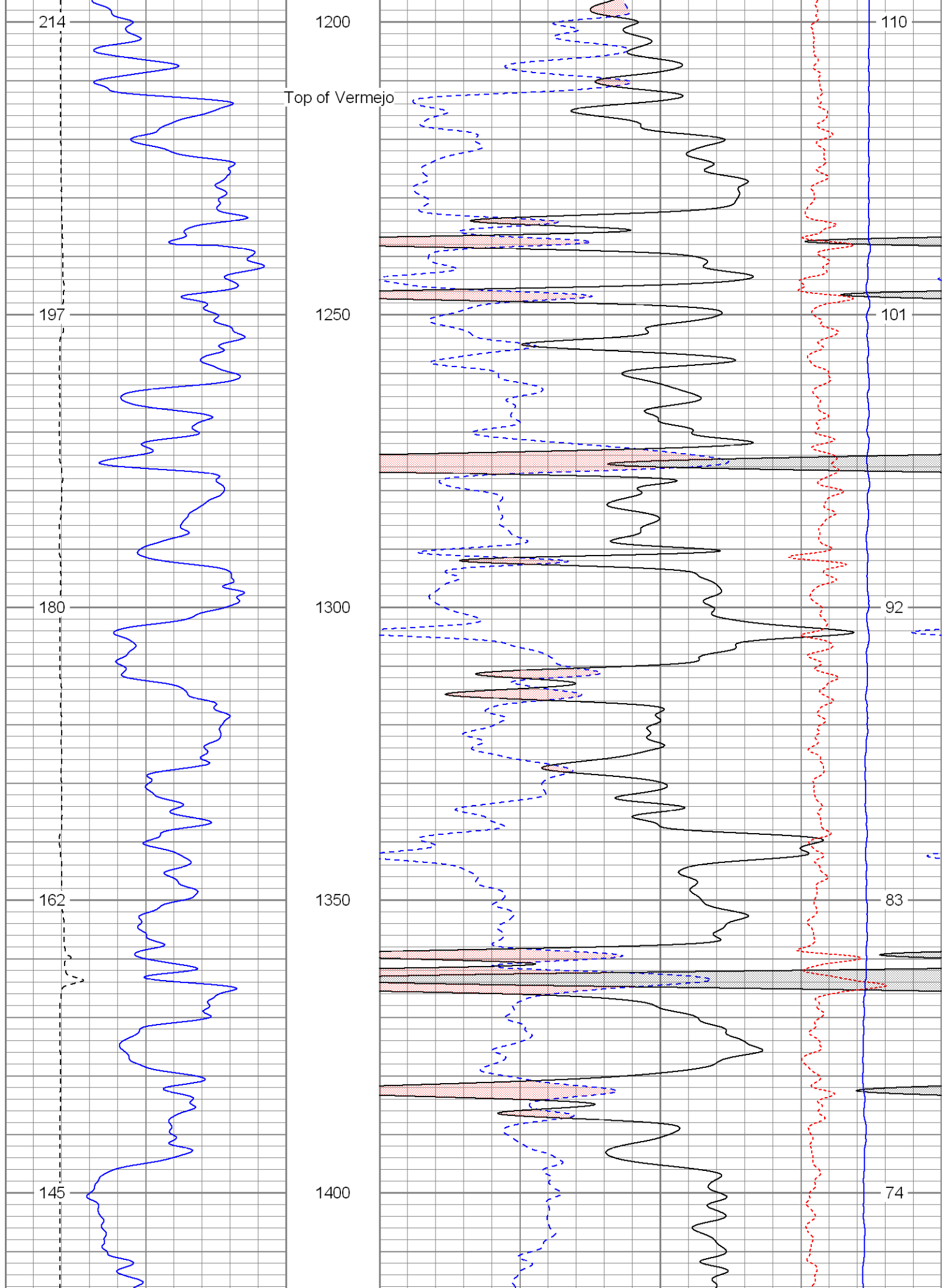
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Charted by: Depth in Feet scaled 1:240

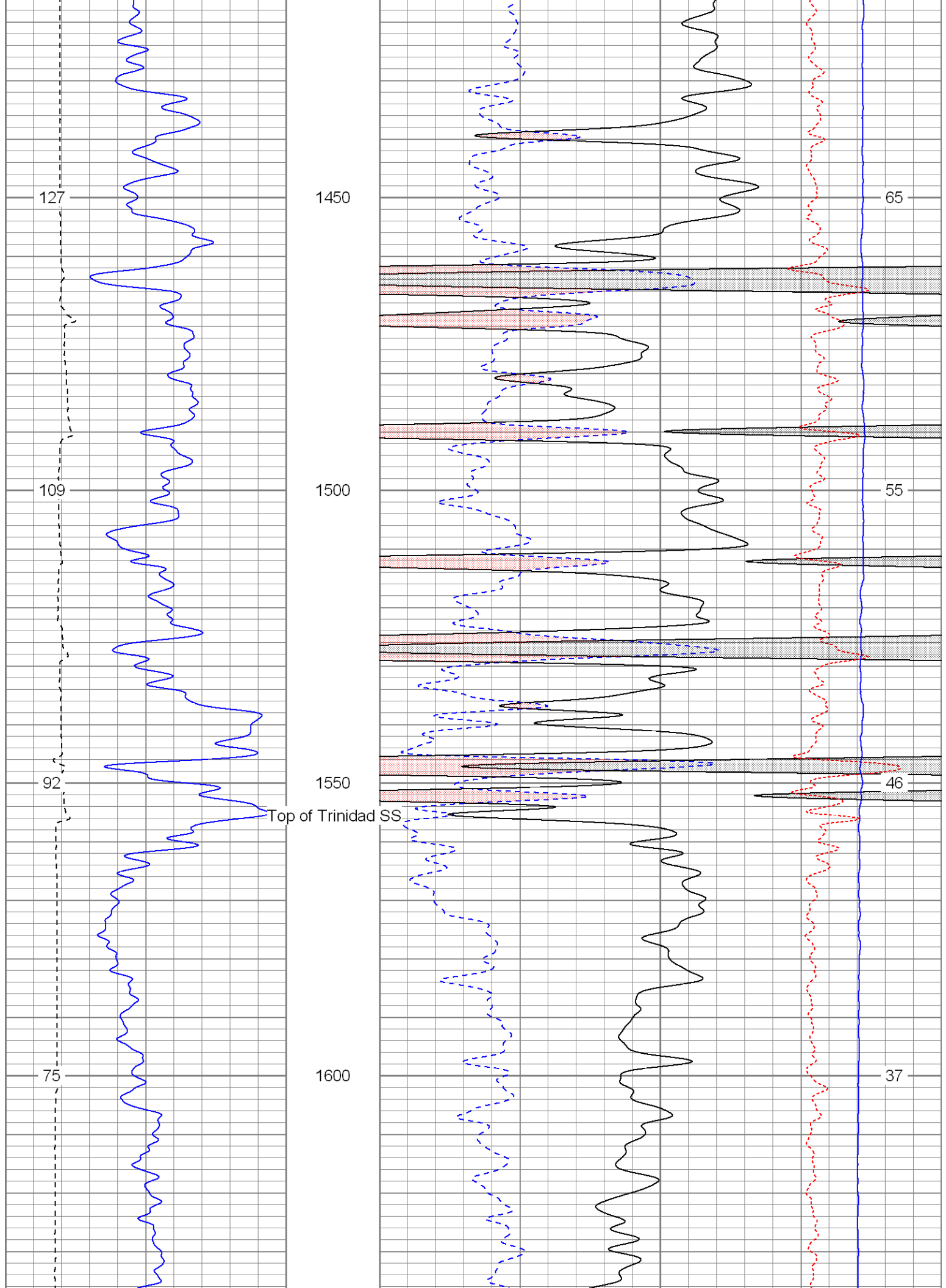
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6	DCAL (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0
					ABHV (ft3)

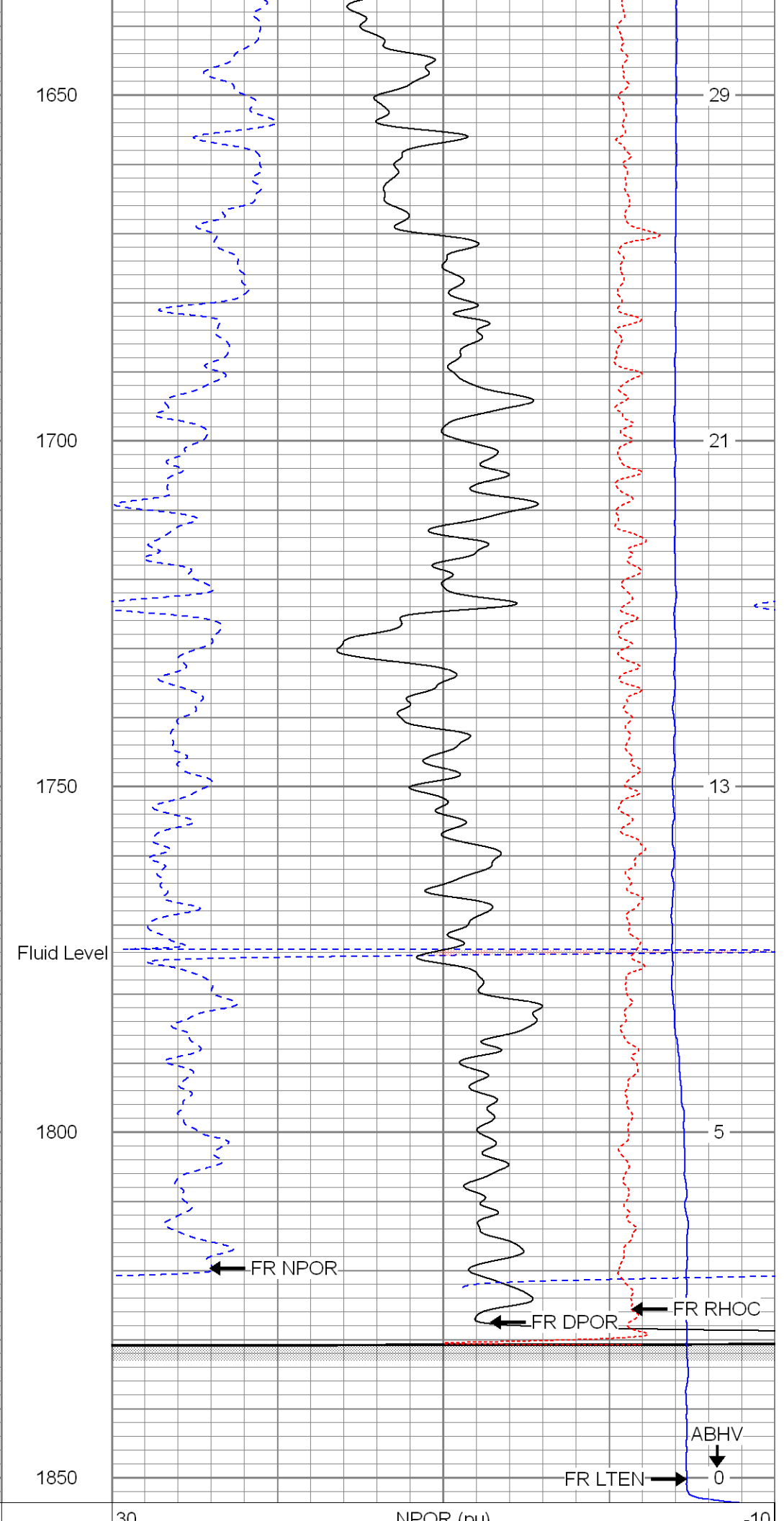
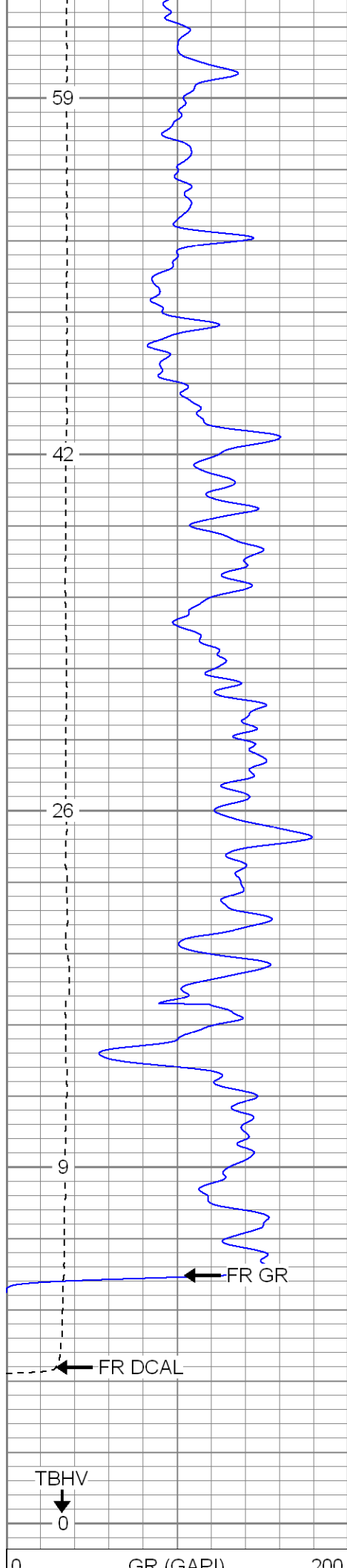












0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

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



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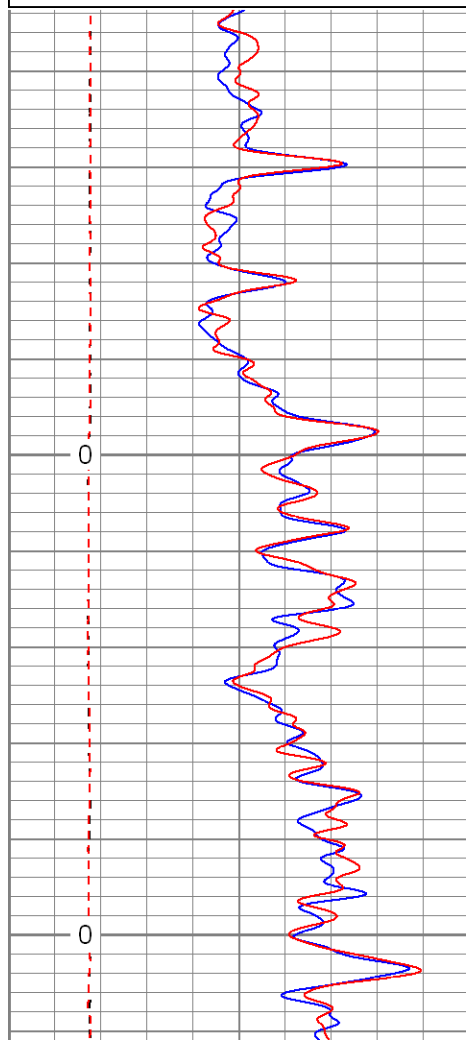
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Repeat Pass

Database File: xtone25102.db
Dataset Pathname: pass3.1
Presentation Format: cdnl
Dataset Creation: Mon Jun 23 08:15:38 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

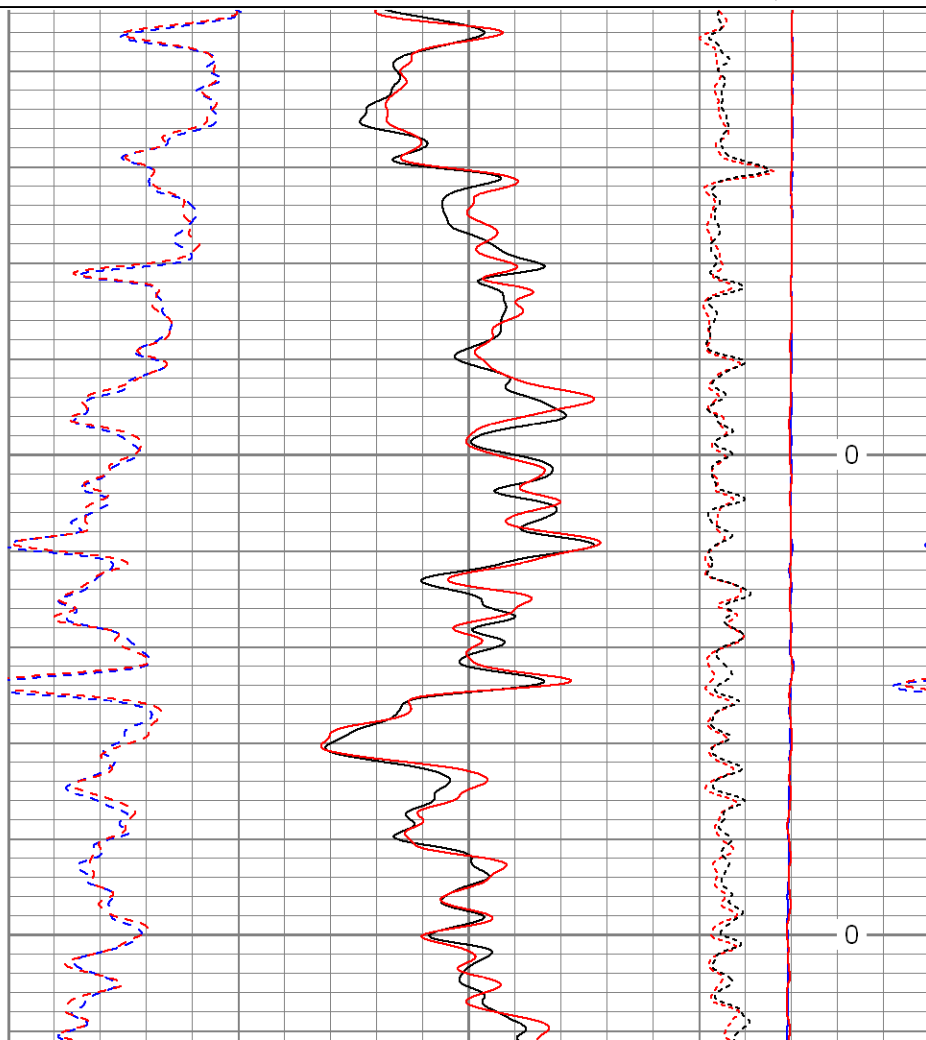
0	GR (GAPI)	200
6	DCAL (in)	16
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16
TBHV (ft3)		

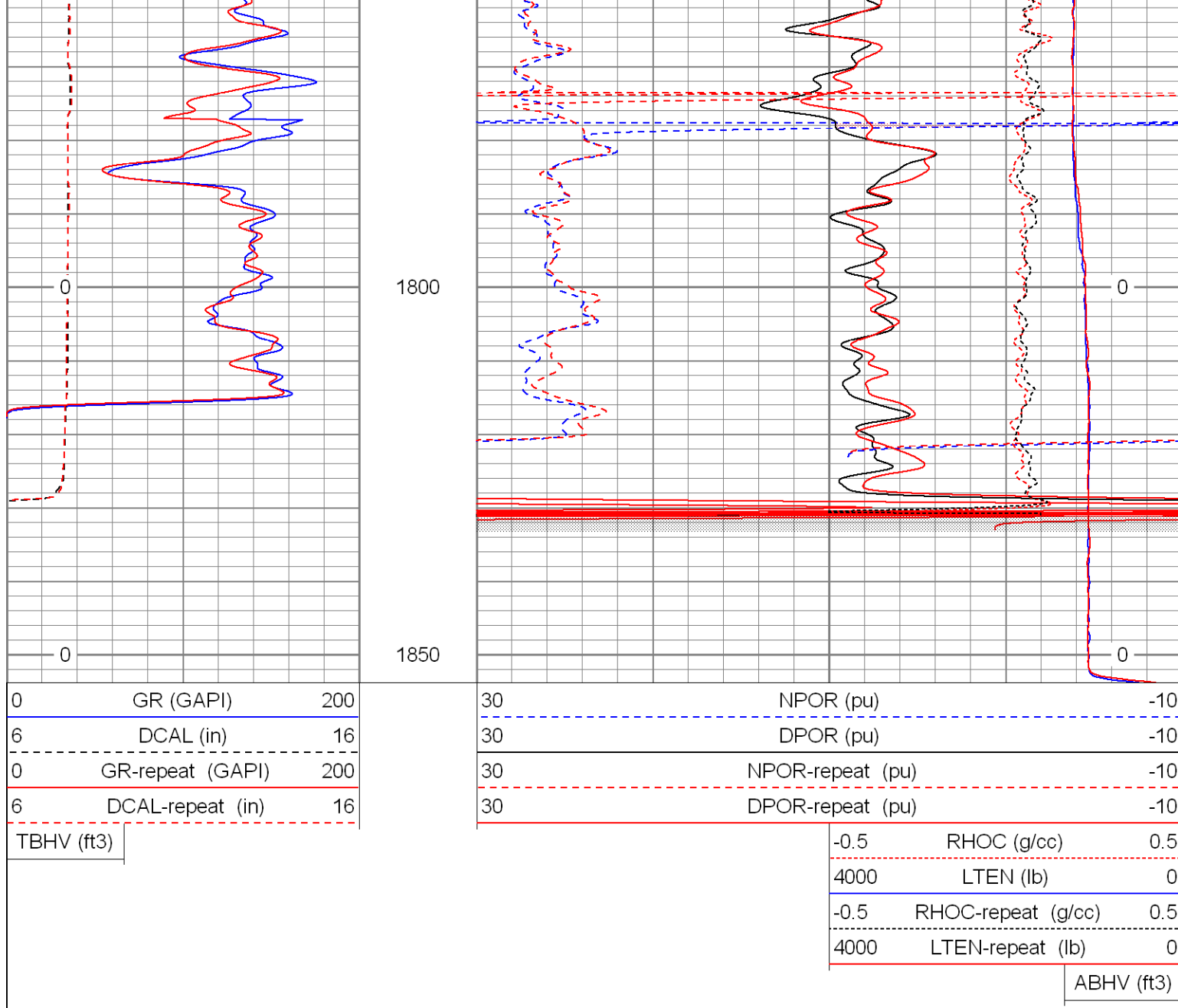
30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
4000	LTEN-repeat (lb)	0
ABHV (ft3)		



1700

1750





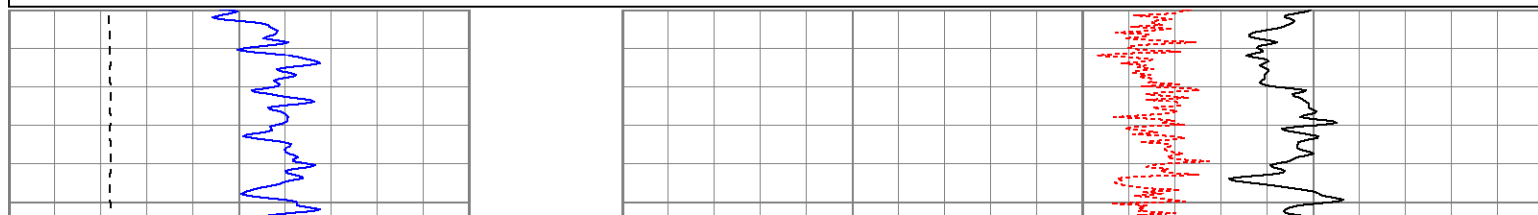
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High Resolution Pass

Database File: xtone25102.db
Dataset Pathname: pass4.2
Presentation Format: cdlhr
Dataset Creation: Mon Jun 23 08:34:37 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

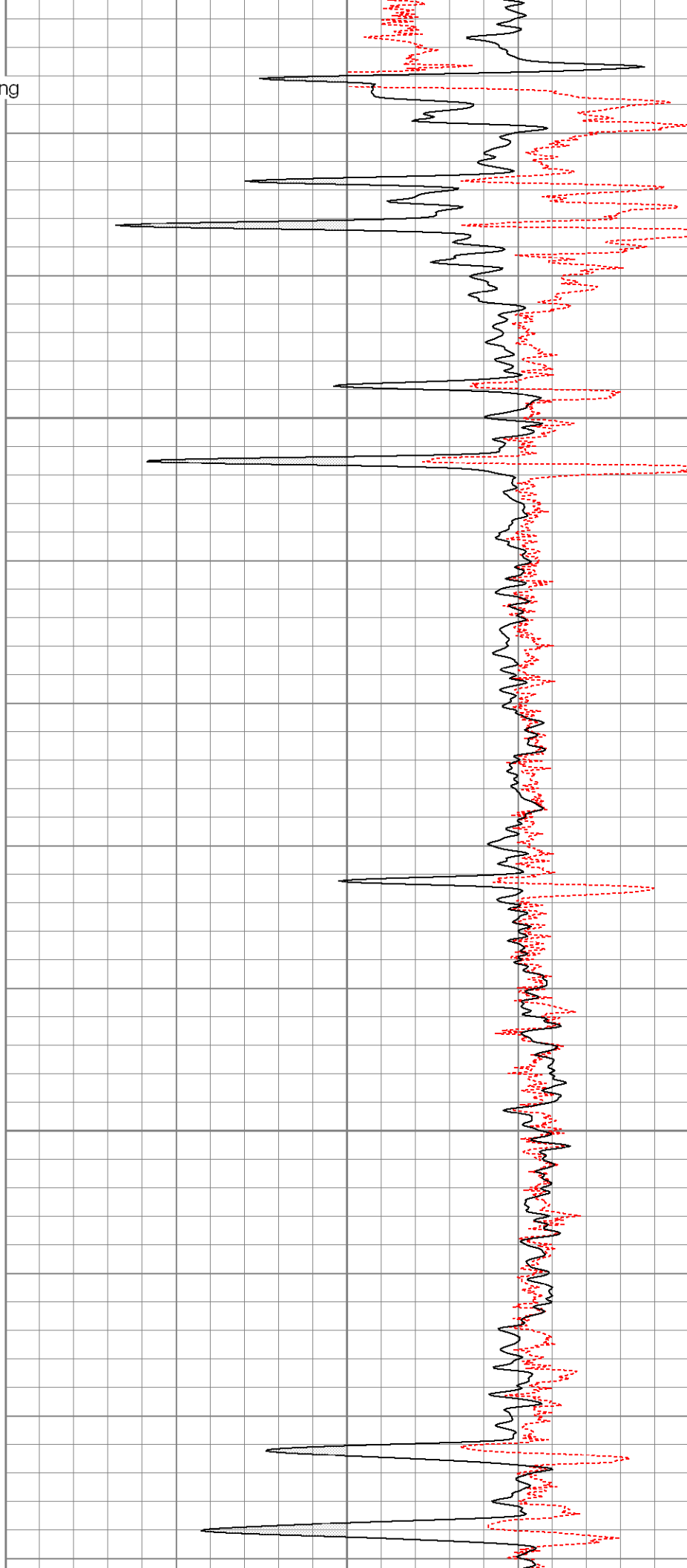
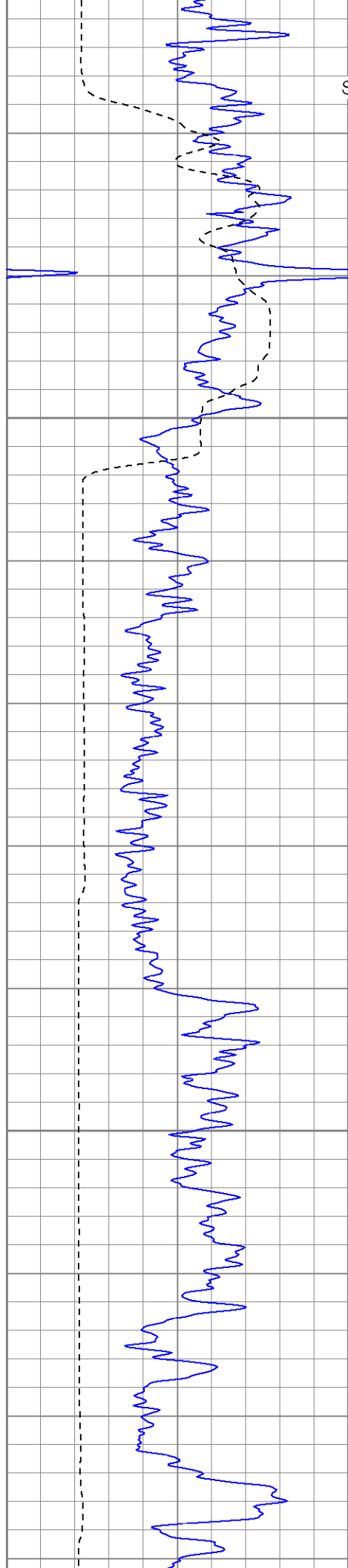
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6	DCAL (in)	16		-0.5	RHOC (g/cc) 0.5

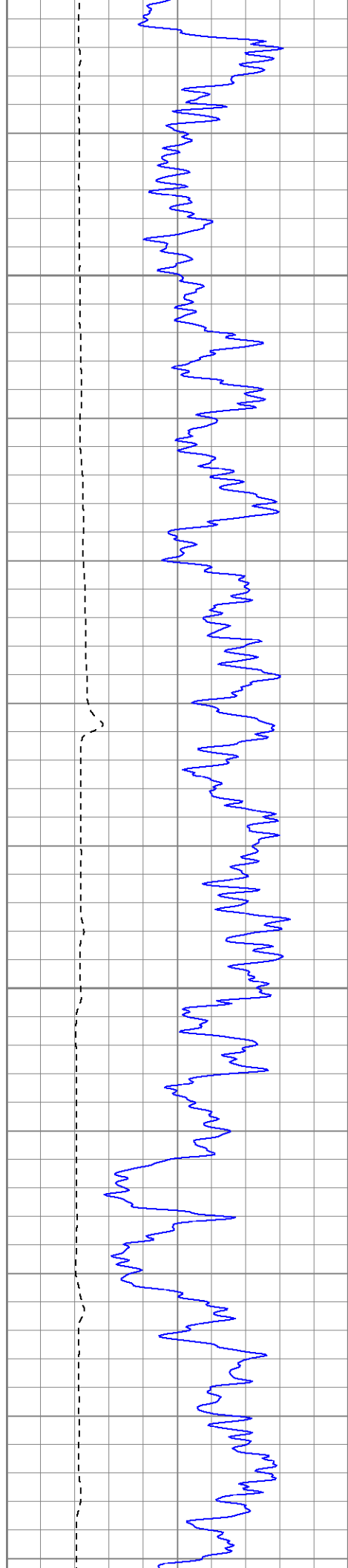


Surface Casing

650

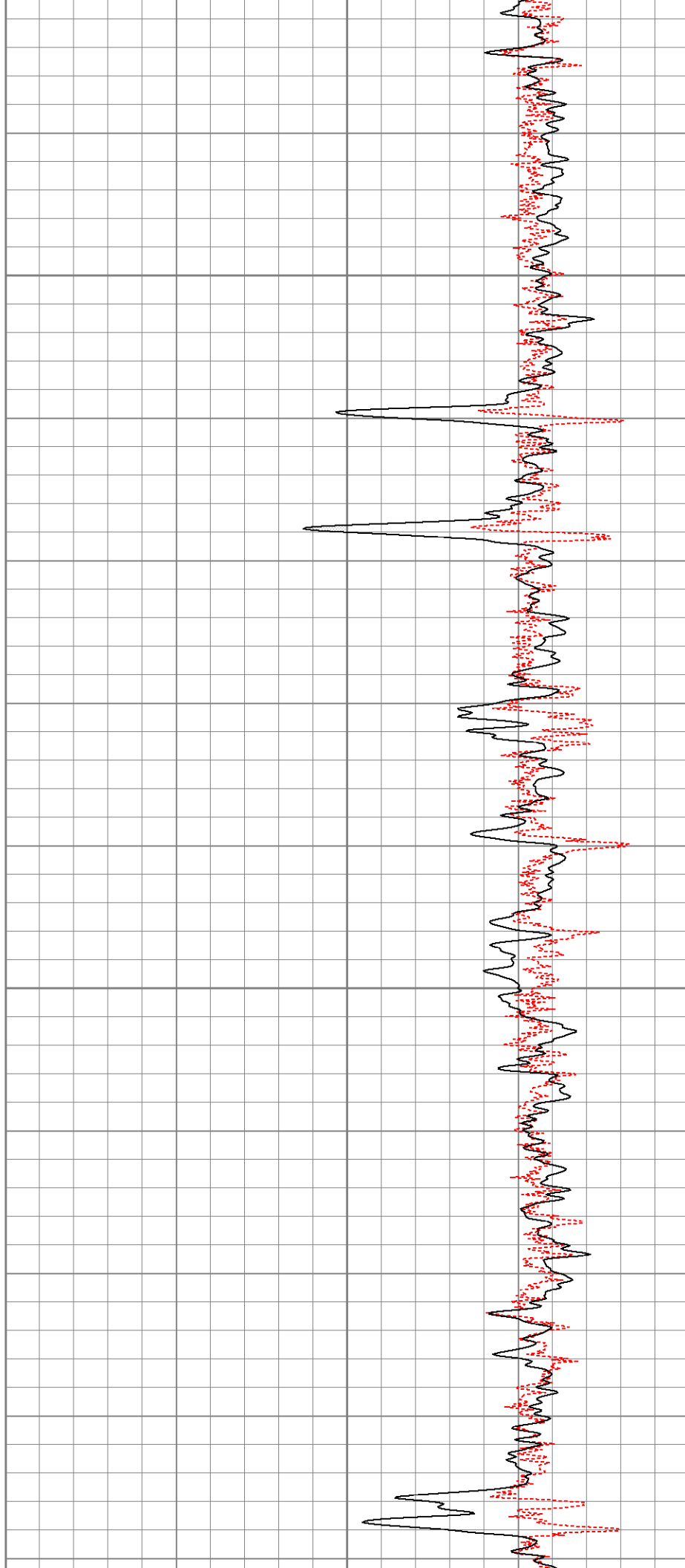
700

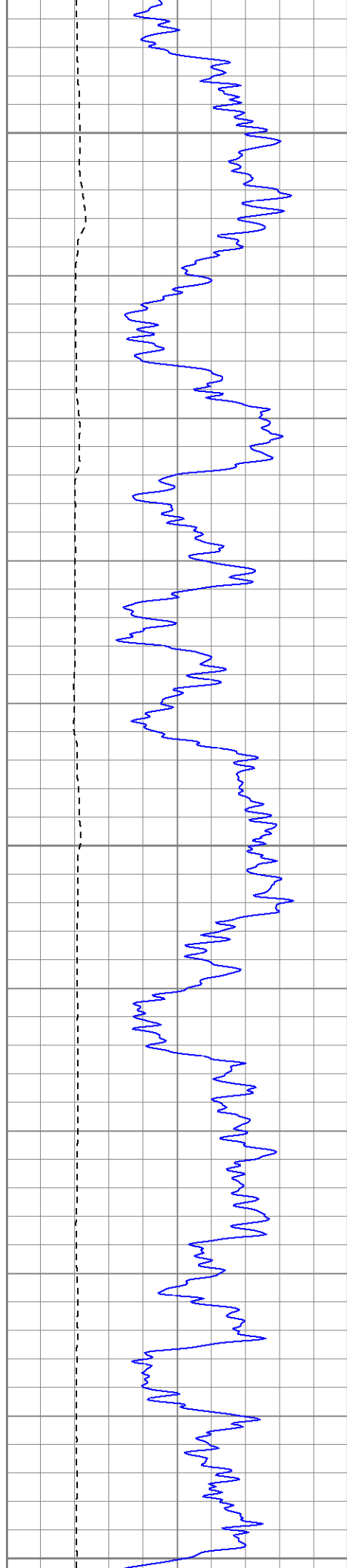




750

800

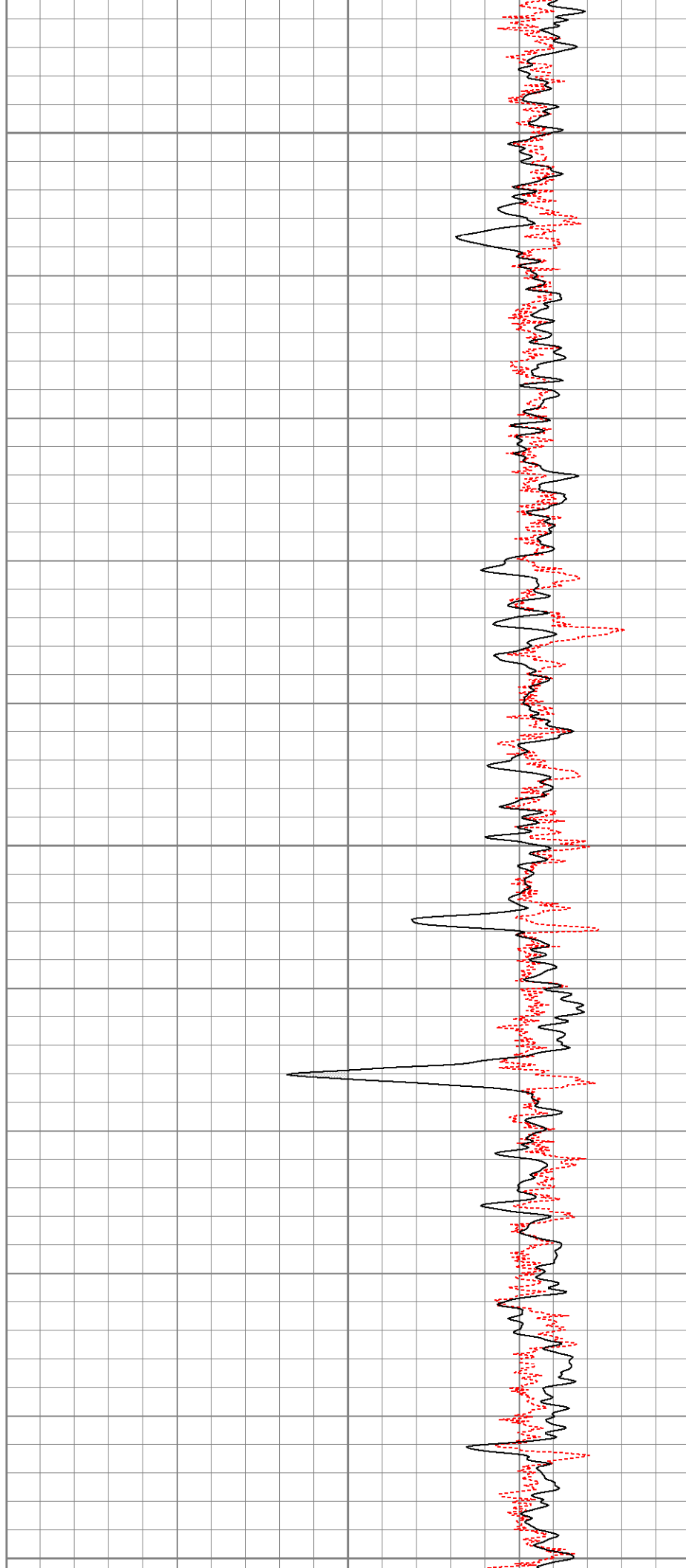


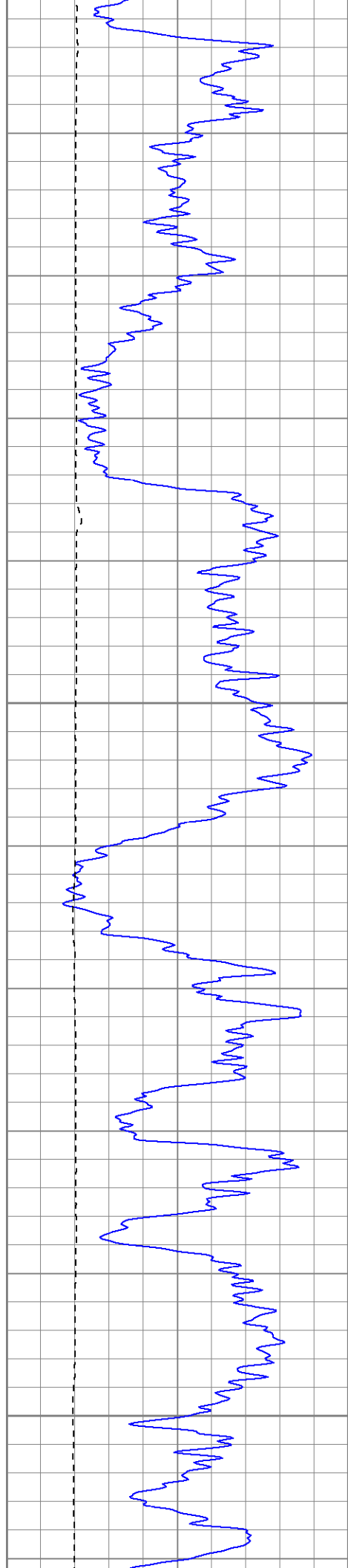


850

900

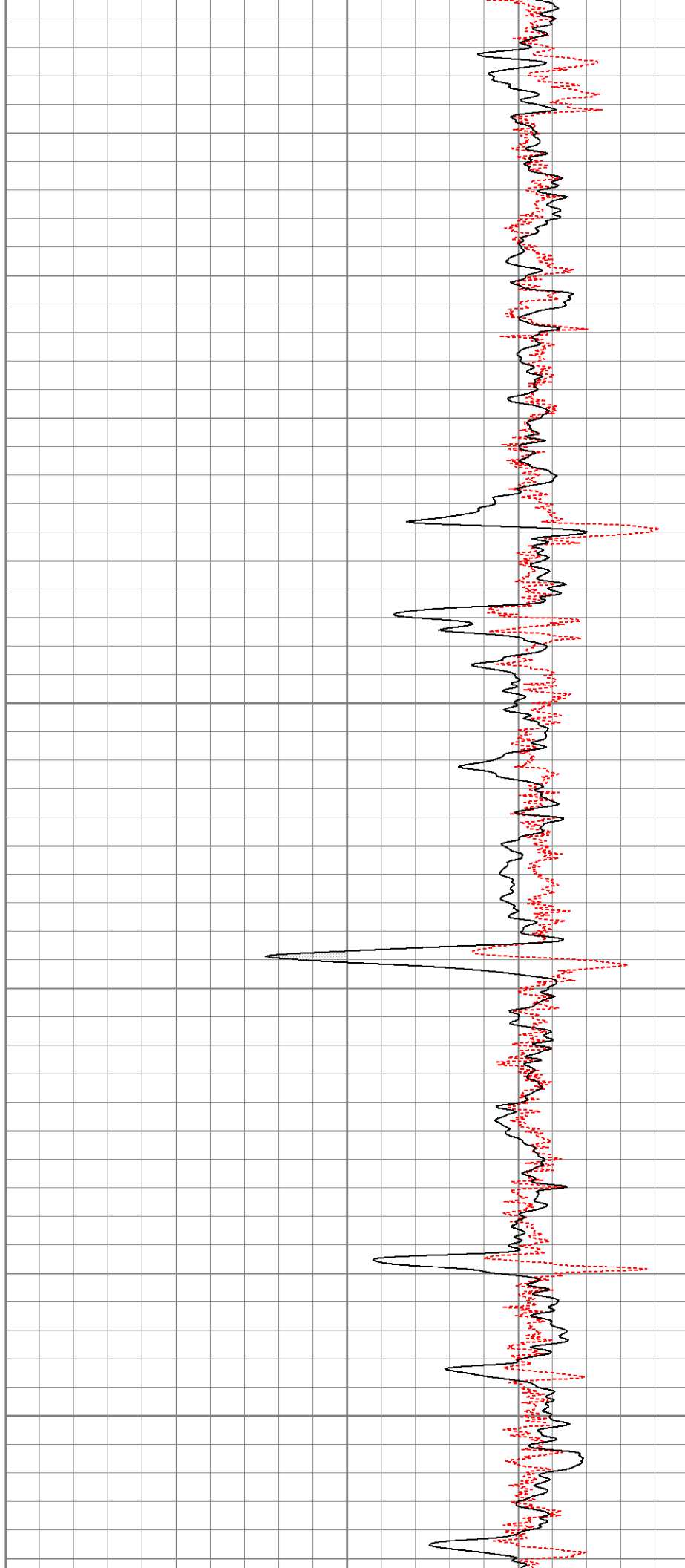
950

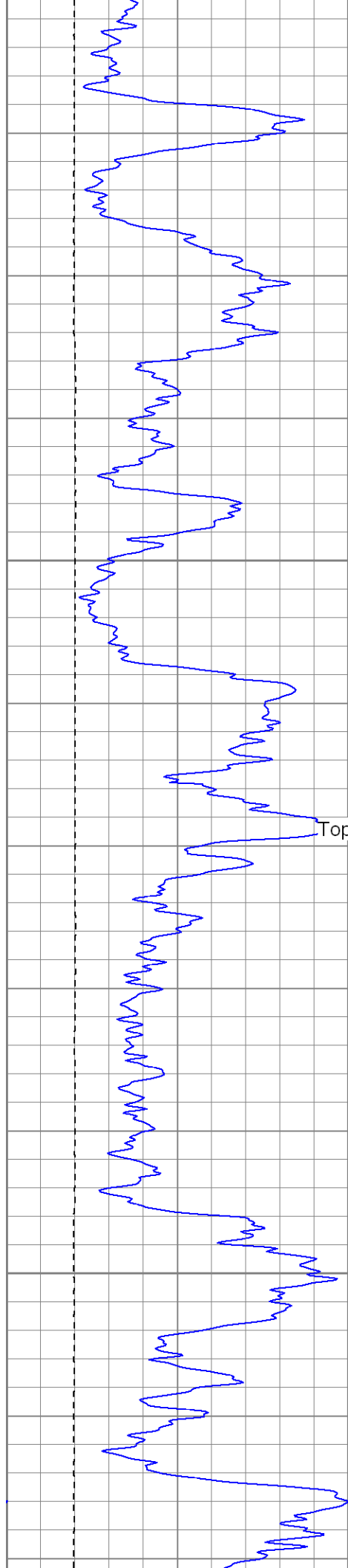




1000

1050

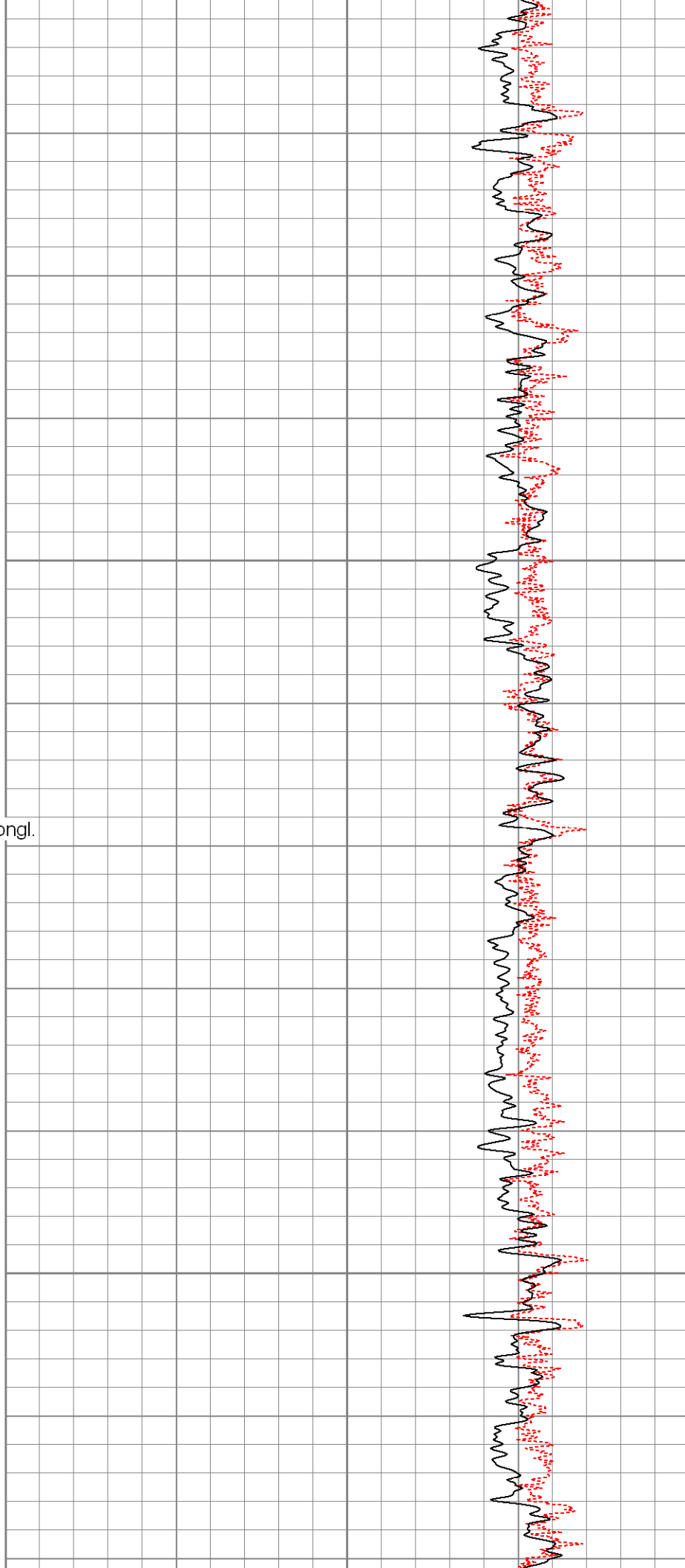


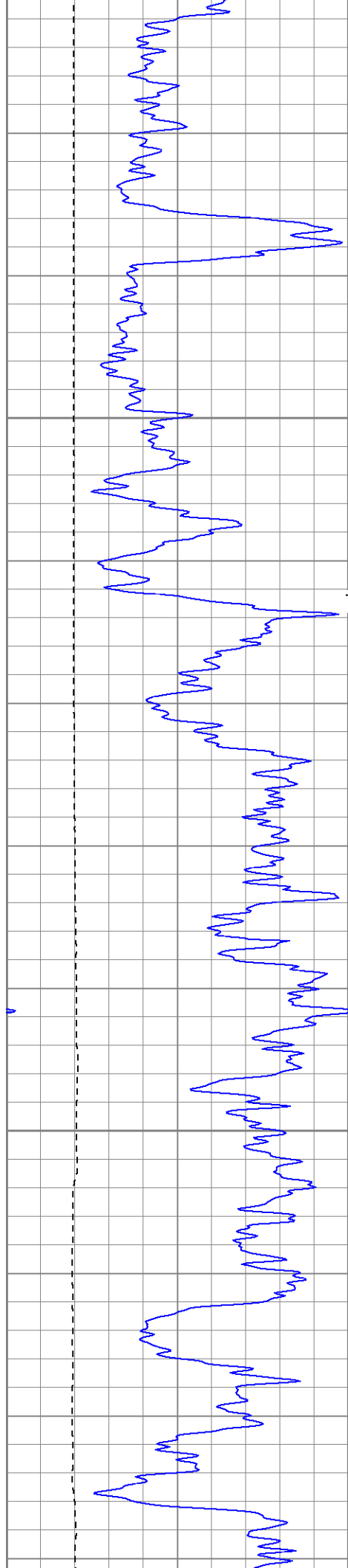


1100

Top of Raton Congl.

1150

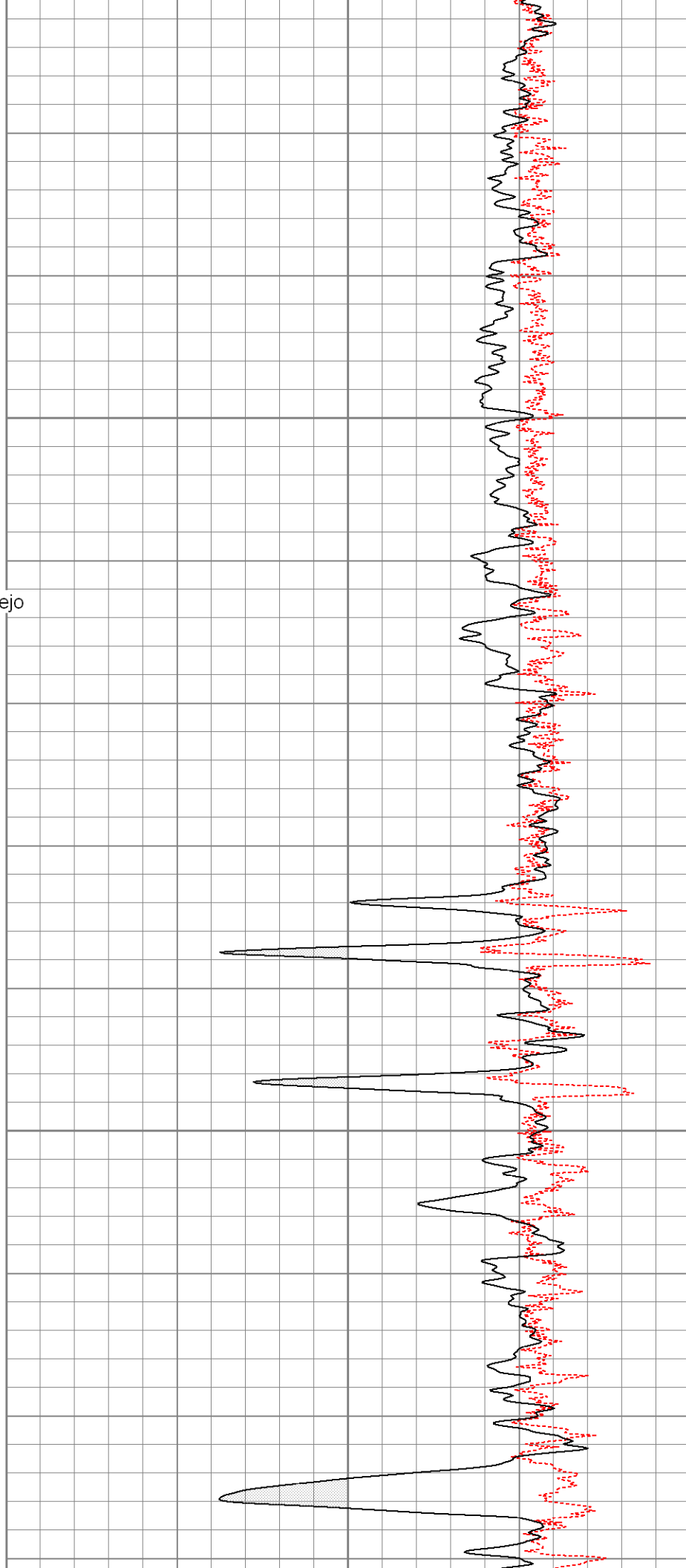


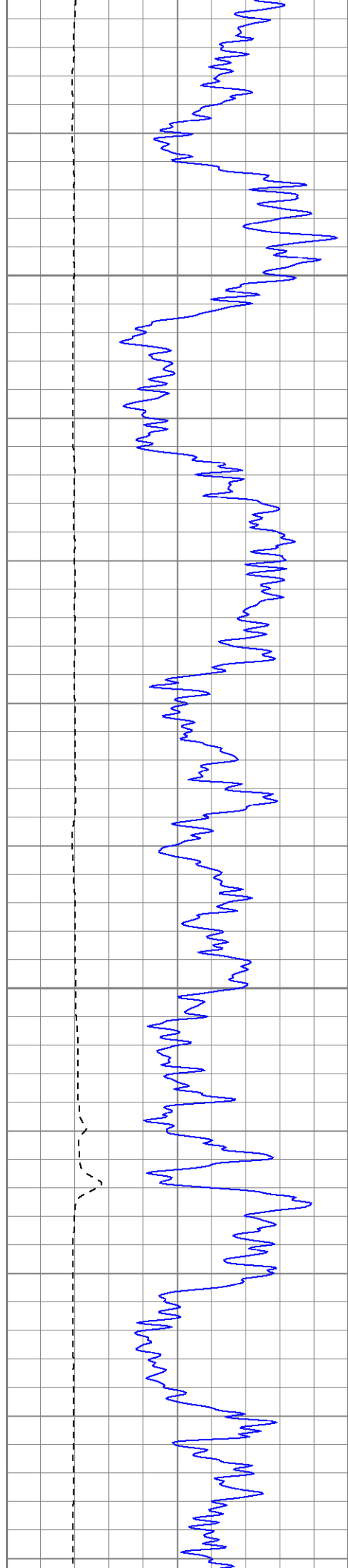


1200

Top of Vermejo

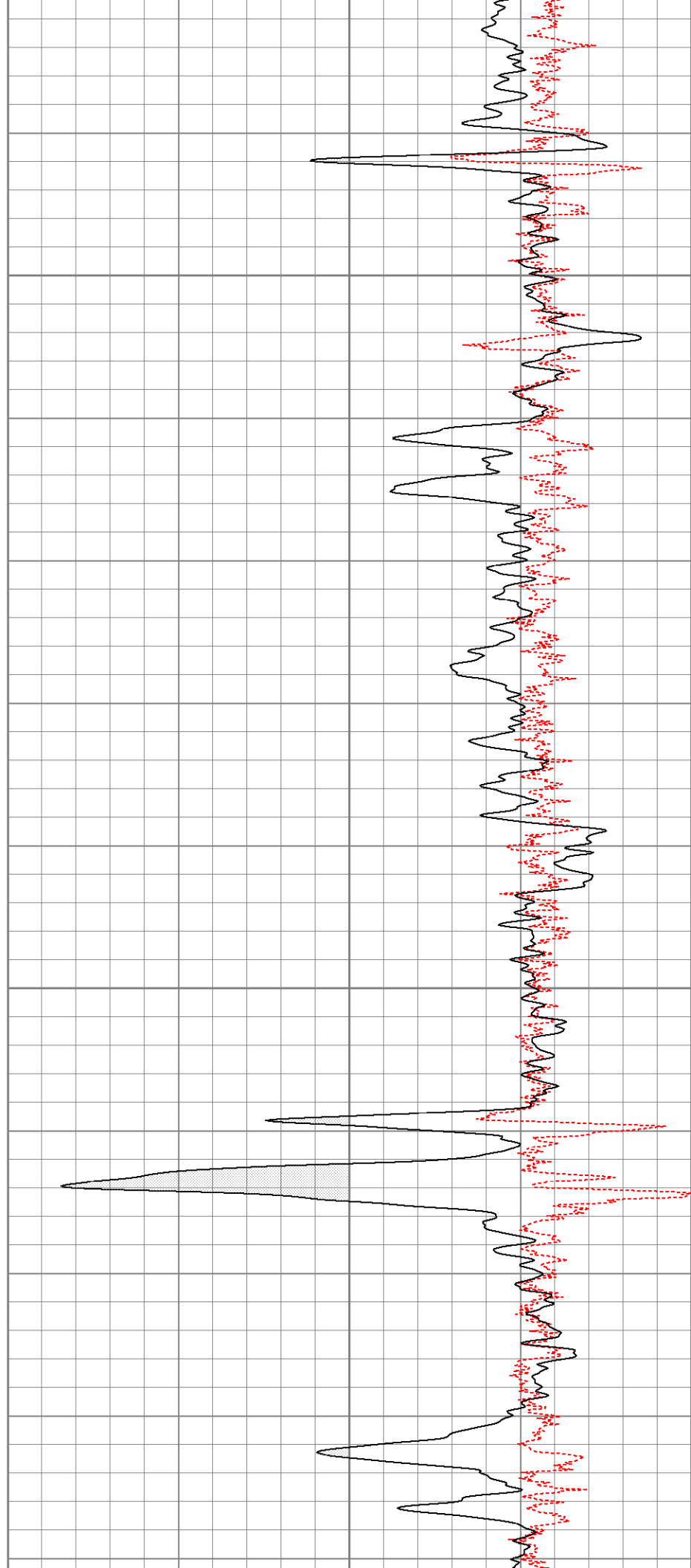
1250

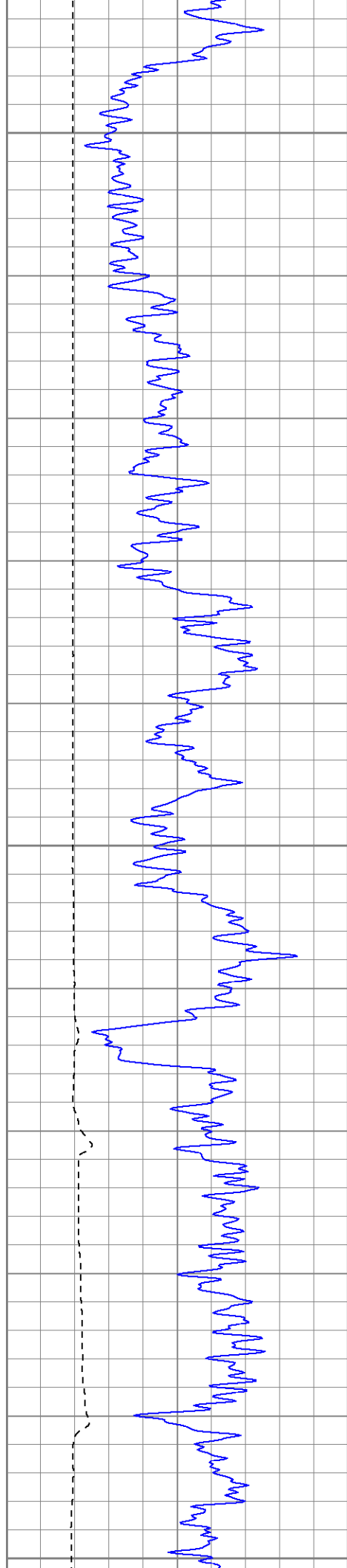




1300

1350

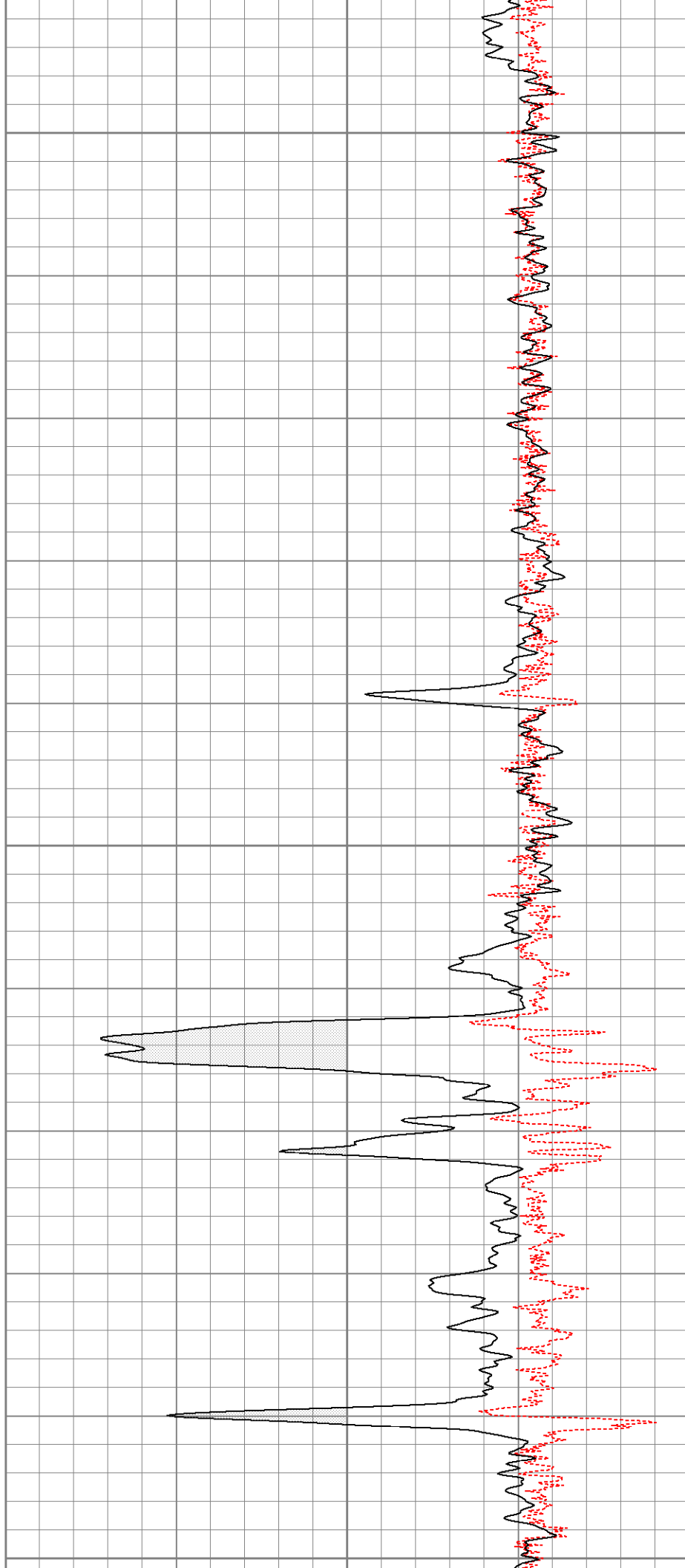


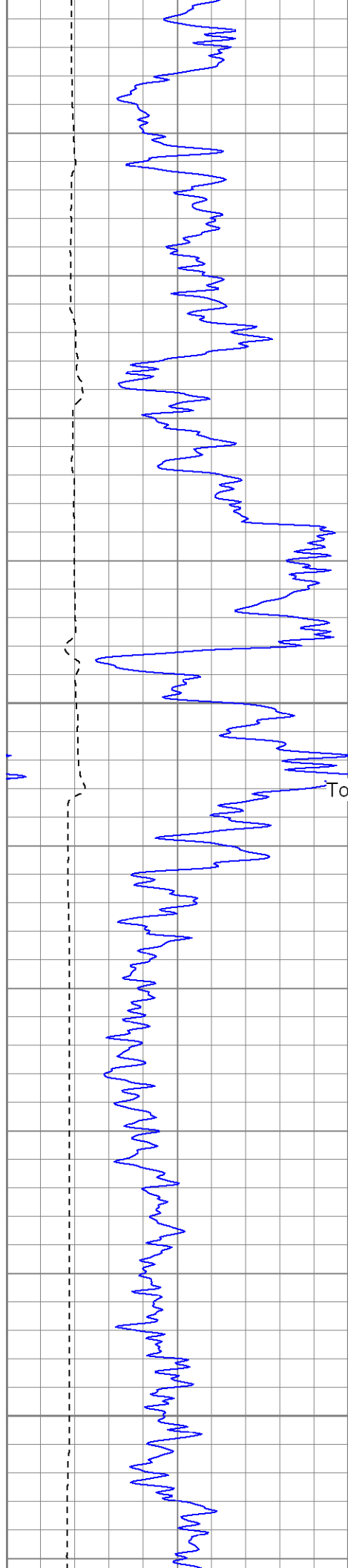


1400

1450

1500

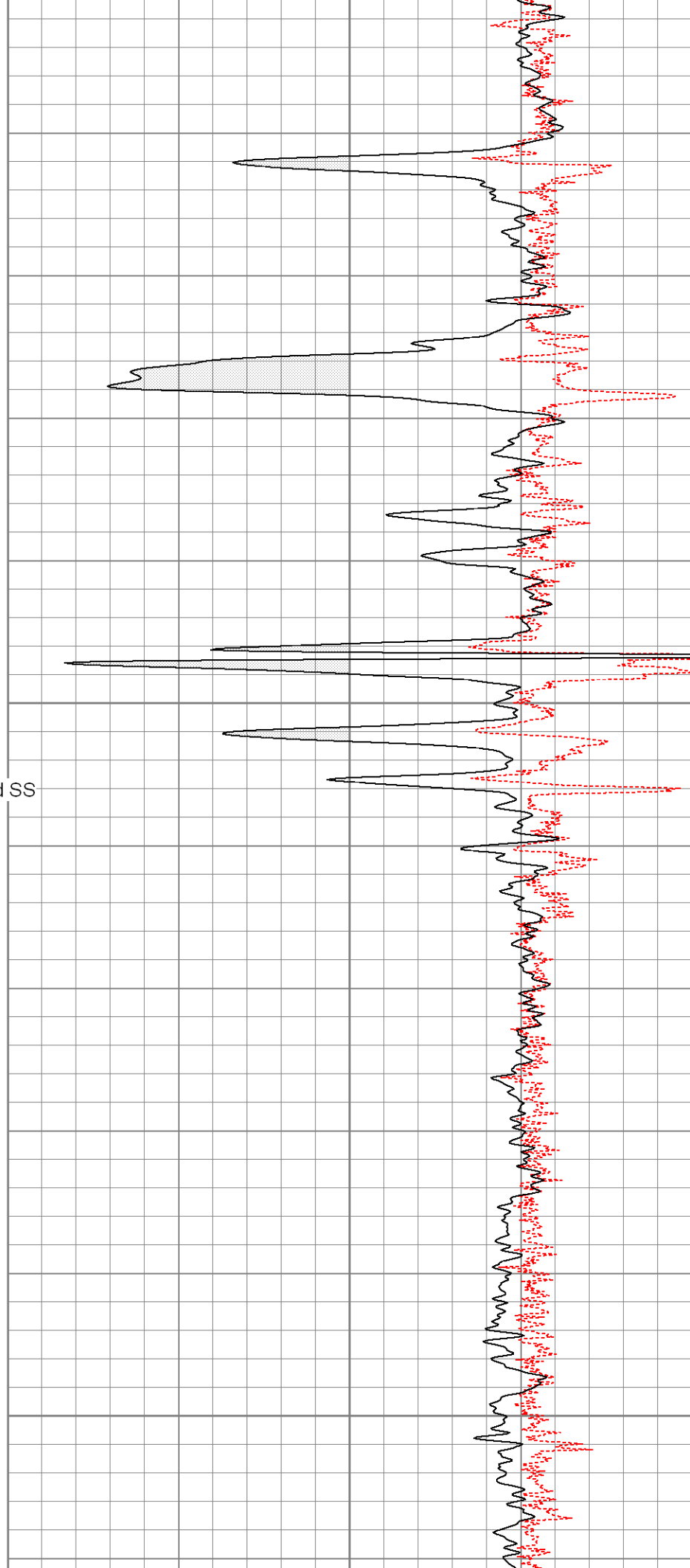


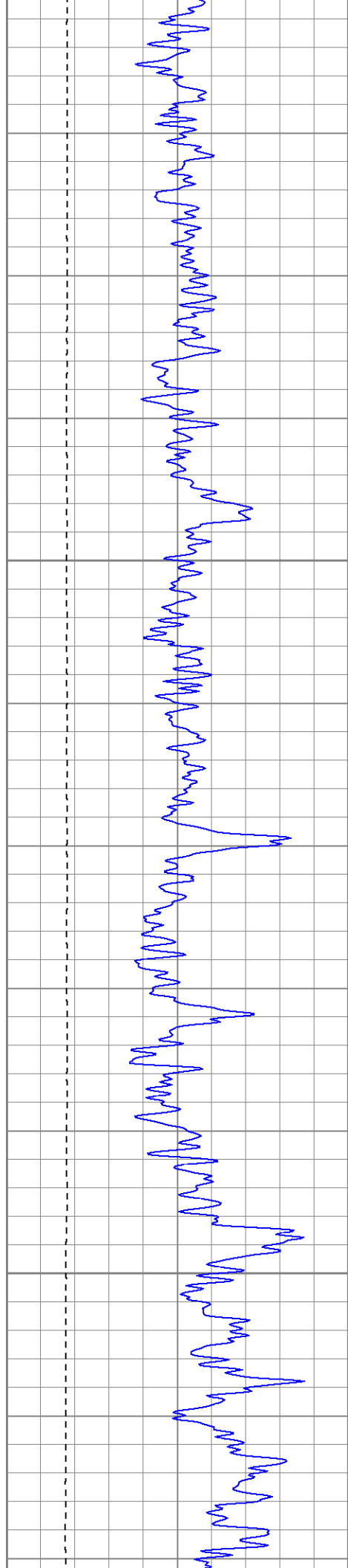


Top of Trinidad SS

1550

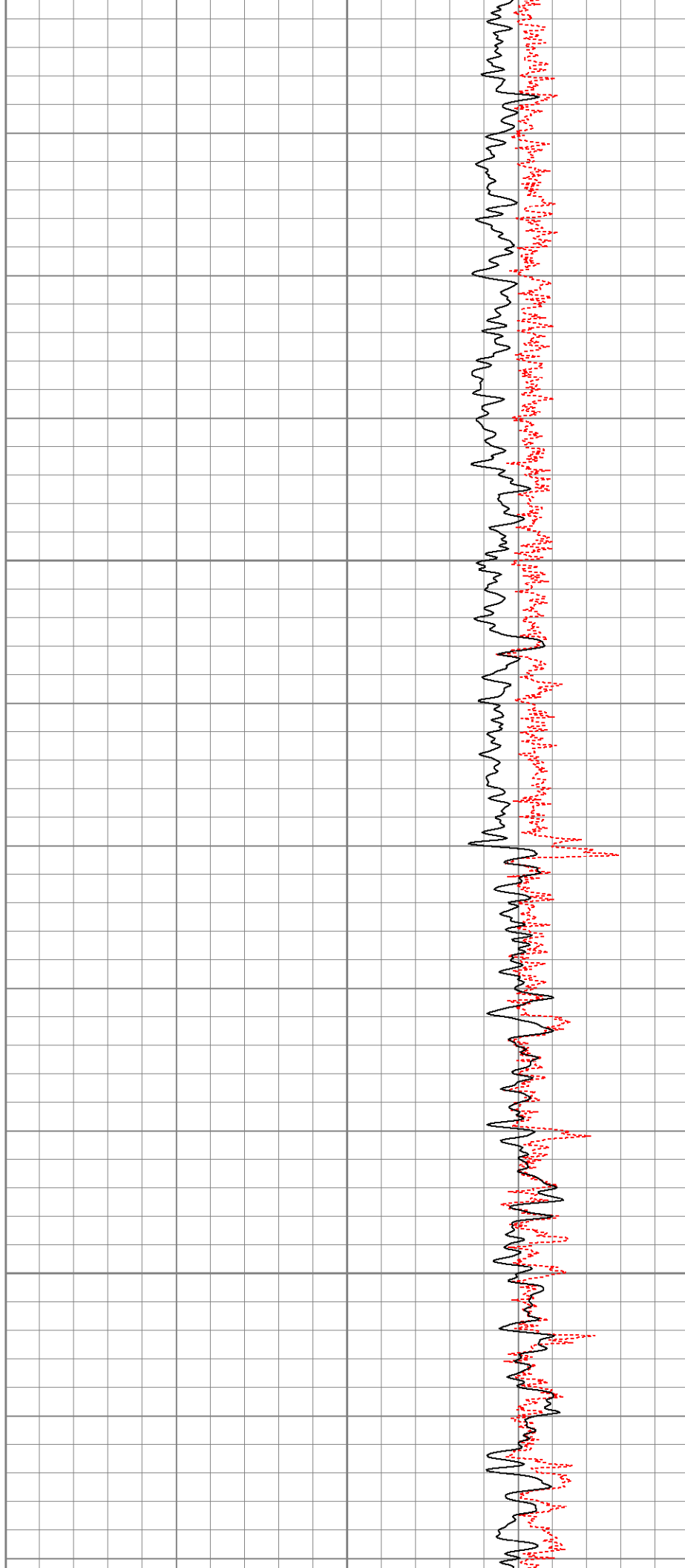
1600

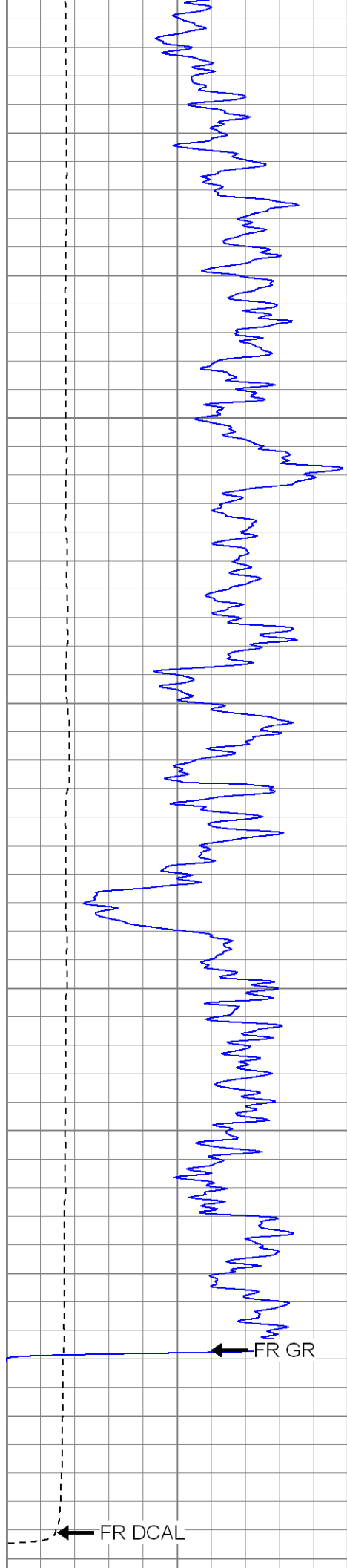




1650

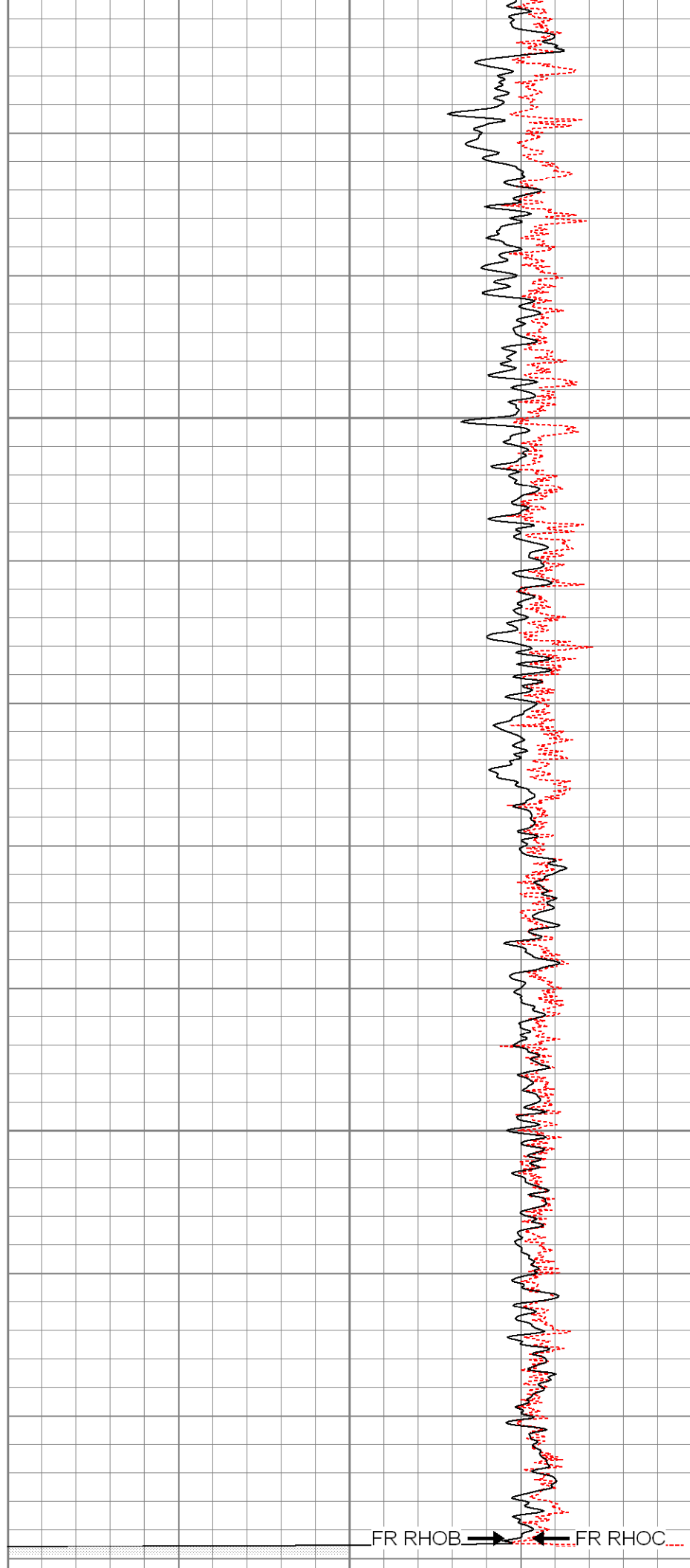
1700





1750

1800



1850

0 200 GR (GAPI)

6 16 DCAL (in)




1 300 RHOB (g/cc)

1.05 RHOC (g/cc)

Calibration Report									
Database File:		xtone25102.db							
Dataset Pathname:		pass1							
Dataset Creation:		Sun Jun 22 17:44:10 2008 by Log Open-Cased 070814							
Dual Induction Calibration Report									
Serial-Model:		5375-G							
Surface Cal Performed:		Thu Jun 19 14:00:16 2008							
Downhole Cal Performed:		Thu Jun 19 14:11:38 2008							
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.008	0.627	V	0.000	500.000	mmho-m	807.269	-6.223	
Medium	0.010	0.749	V	0.000	550.000	mmho-m	744.131	-7.221	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.008	0.628	V	0.000	500.000	mmho-m	806.482	-6.237	
Medium	0.010	0.749	V	0.000	550.000	mmho-m	744.204	-7.127	
Downhole Calibration									
Readings				References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.256	500.305	mmho-m	0.020	500.507	mmho-m	1.001	-0.237	
Medium	0.259	549.900	mmho-m	-0.095	549.850	mmho-m	1.001	-0.354	
Shallow	2.515	0.018	V	500.000	2.000	Ohm-m	199.433	-1.530	
Compensated Density Calibration Report									
Serial-Model:		901-2.75POH							
Source / Verifier:		/							
Master Calibration Performed:		Fri Jun 13 13:34:55 2008							
Master Calibration									
Density				Far Detector		Near Detector			

Magnesium	1.710	g/cc	1044.92	534.39	cps
Aluminum	2.590	g/cc	190.27	268.70	cps
Spine Angle = 68.02			Density/Spine Ratio = 0.479		
	Size		Reading		
Small Ring	8.00	in	2.48	V	
Large Ring	17.00	in	4.28	V	

Neutron Calibration Report		
Serial Number:	803	
Tool Model:	2.75POH	
Performed:	Fri Jun 13 12:44:22 2008	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps
Gamma Ray Calibration Report		
Serial Number:	801	
Tool Model:	2.75POH	
Performed:	Fri Jun 13 12:38:01 2008	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	37.81		None	0.75	1.50	5.00
			GR-2.75POH (801) Probe	3.73	2.75	43.00
NEU	32.27		NEU-2.75POH (803) Probe Epithermal	4.75	2.75	58.00
LSD	24.44		CDL-2.75POH (901) Probe	8.43	2.75	106.00
DCAL	24.16		Probe	0.89	3.50	20.00
SSD	23.91					

