

GAMMA RAY / CALIPER
LOG

Company Cobalt Energy, LLC

Well McDaniel Trust #1-18

Field N/A

County Logan State Kansas

Location: API #: 15-109-21608-00-00

SW SE NW NE

SEC 18 TWP 15S RGE 33W

Permanent Datum	Ground Level	Elevation	2871
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Drilling Measured From	Kelly Bushing	D.P. W/L
		G.L. 2871

	12/23/2020
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	BHV

	4600
	4603

Interval	4574
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Chemical	300
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L	50000
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	122

ation	P-108	
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	D. Schm

Whole Record	Early Night
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From	To
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351'	TD
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[illegible]

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Oakley,
South to Gold Rd, 4 1/2 West, 2 South, 4 West,
South and East into

Log Measured From: Kelly Bushing 11 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

This Log Record Was Witnessed By

Engineer: D. Schmidt

Primary Witness: Larry Nicholson

Operator:

Secondary Witness:

Operator:

Secondary Witness:

Operator:

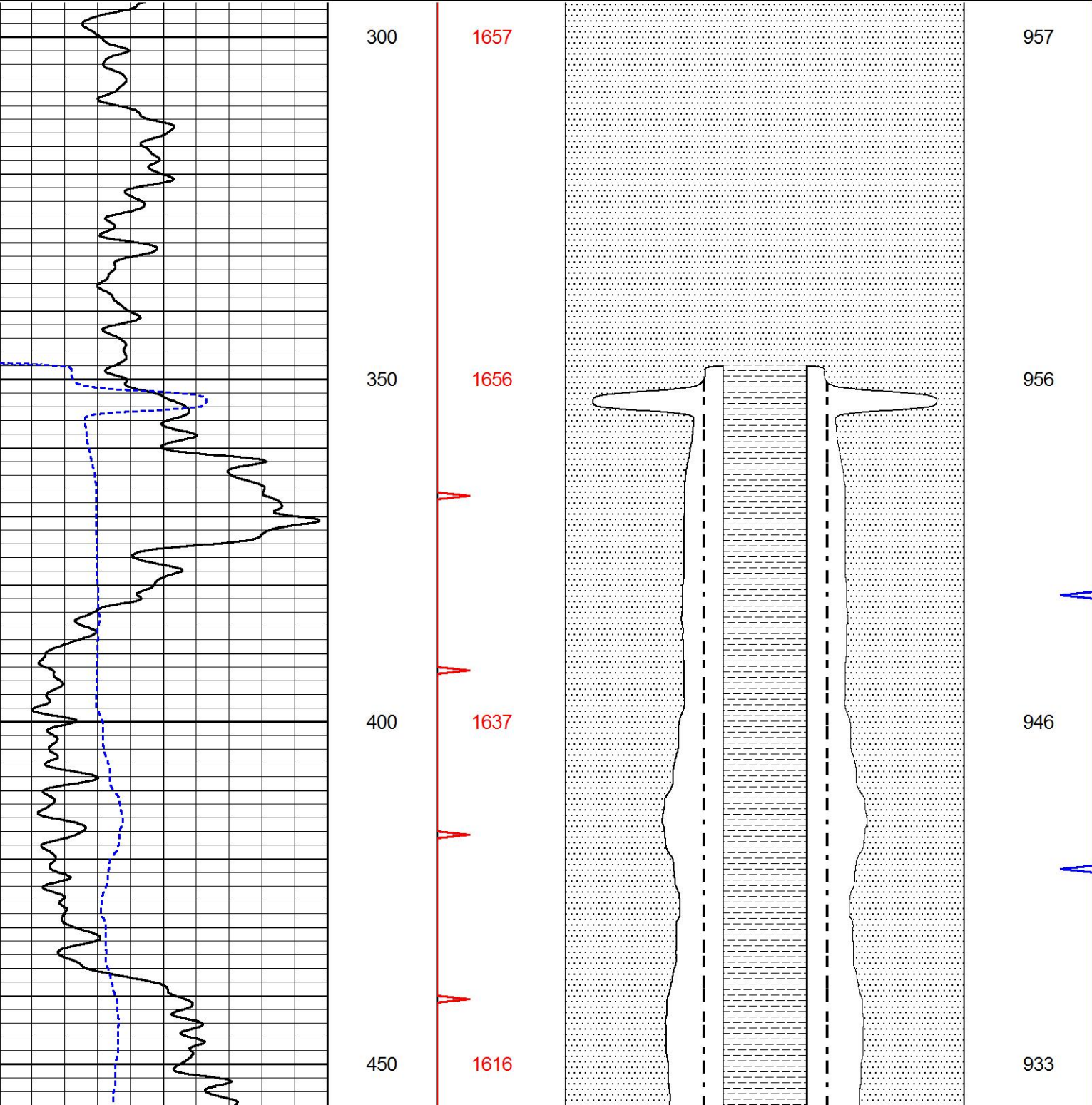
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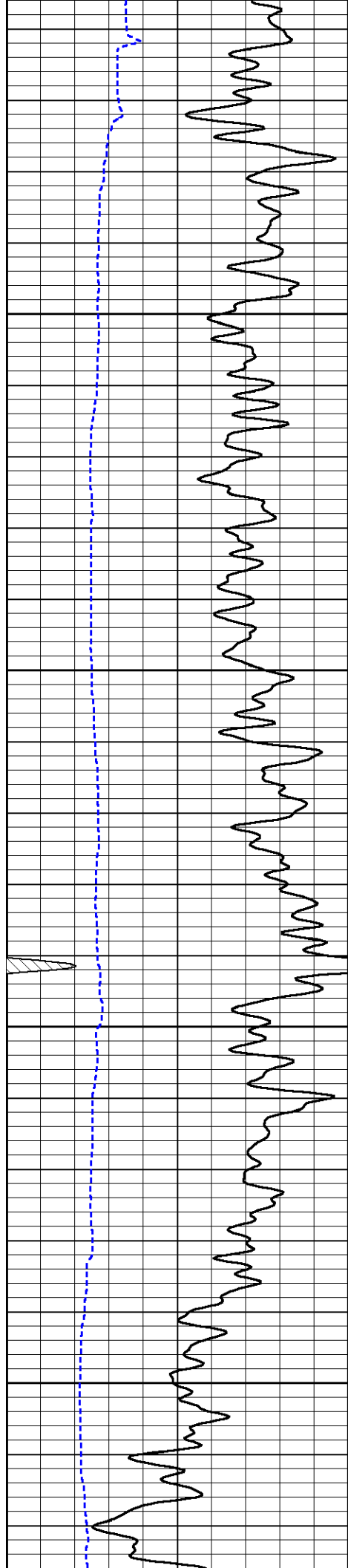


MAIN PASS

Database File cobalt_mcdanieltrust 1-18.db
Dataset Pathname stkml/pass5.1
Presentation Format bhv5half
Dataset Creation Wed Dec 23 09:39:38 2020
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Borehole Volume (ft3)	10	10	Annular Volume (ft3)	0
150	GR (GAPI)	300						
6	DCAL (in)	16						





500

1596

550

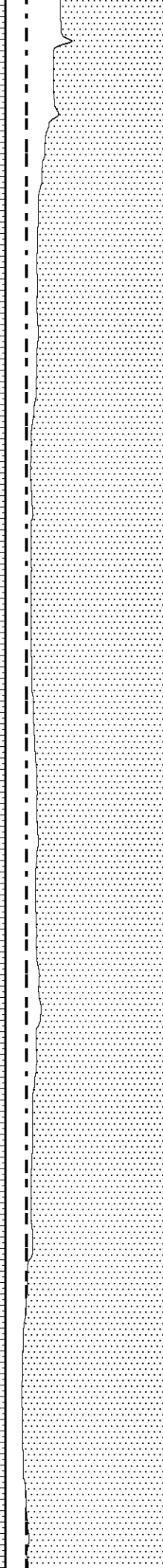
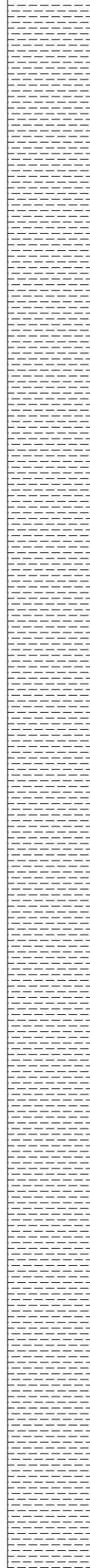
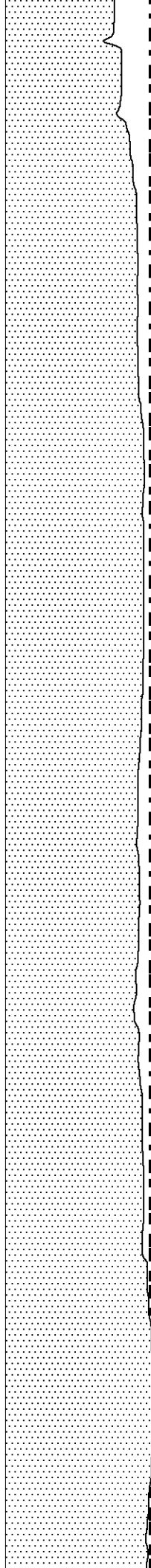
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600

1559

650

1541



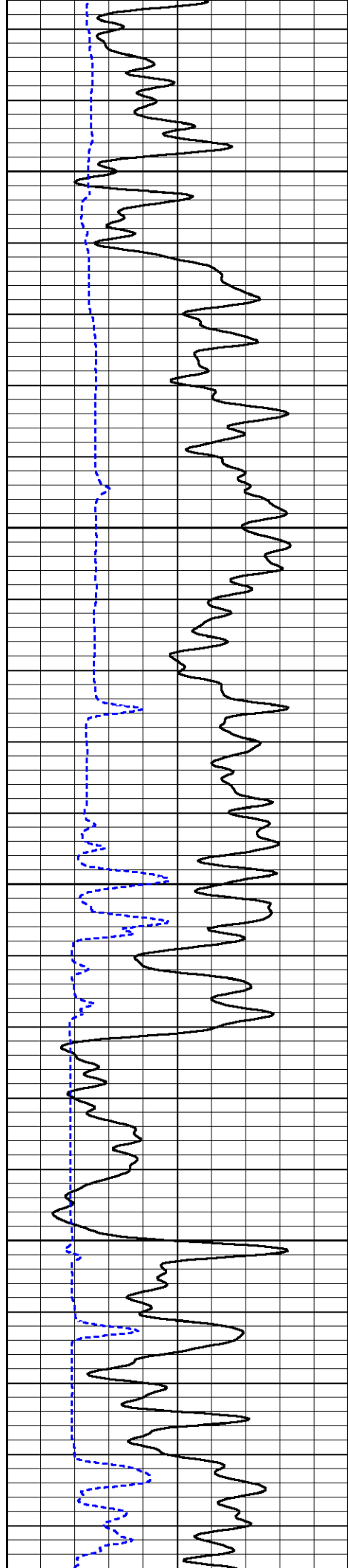
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911

900

891





700

750

800

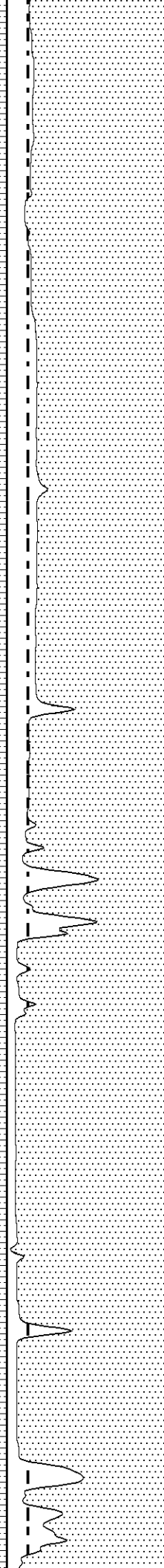
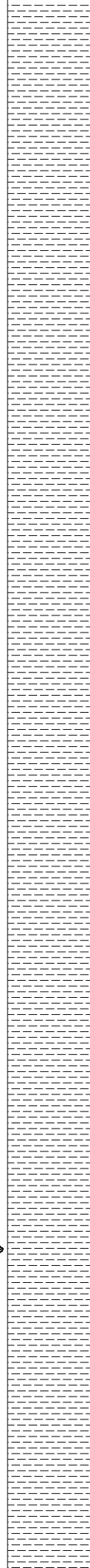
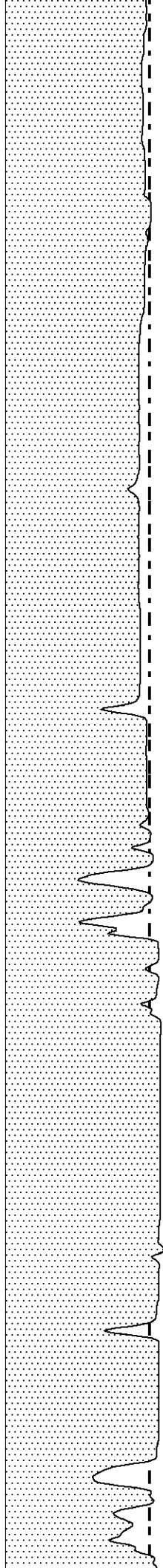
850

1523

1504

1486

1468

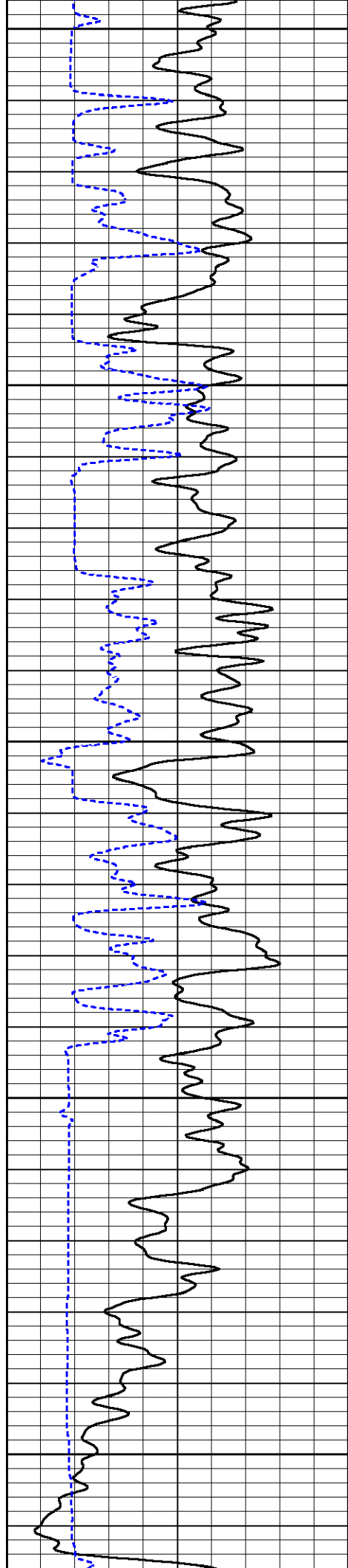


881

871

860

851



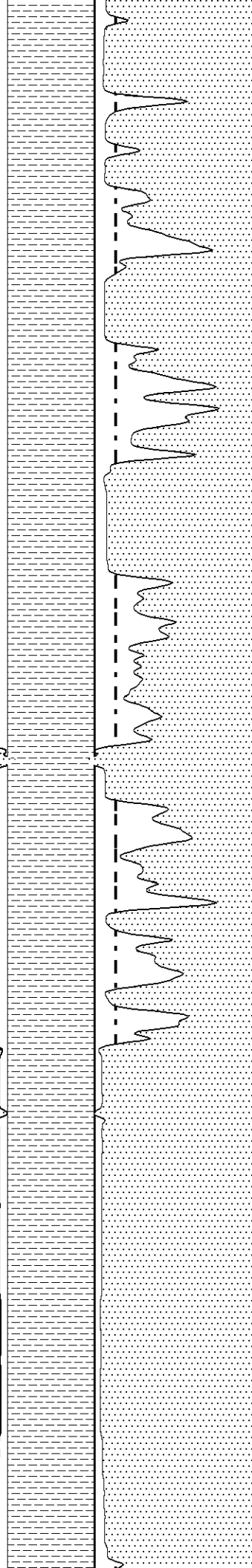
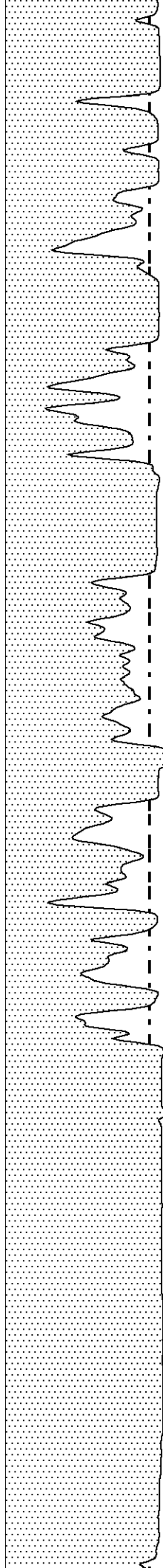
900 1450

950 1431

1000 1411

1050 1390

1100 1374



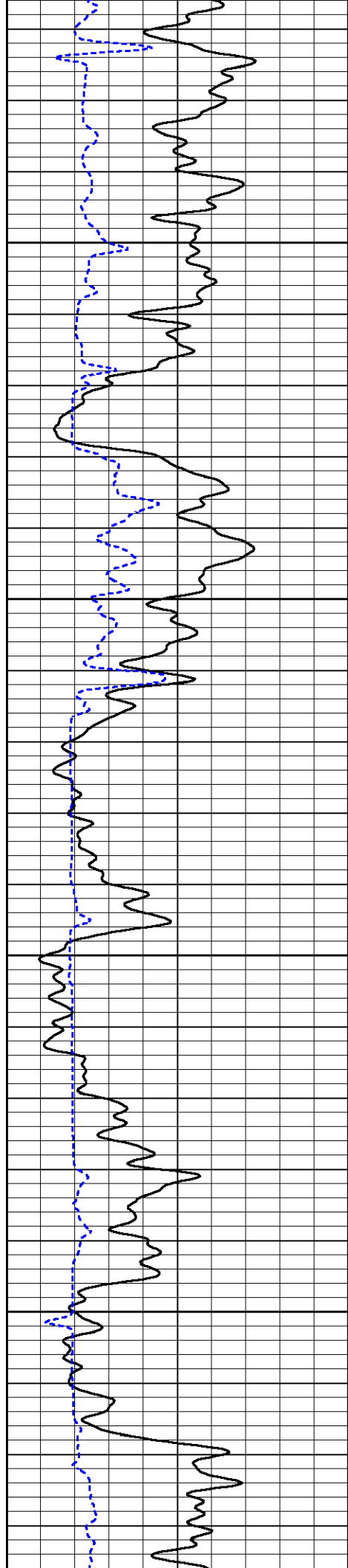
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831

818

806

798



1150

1356

1200

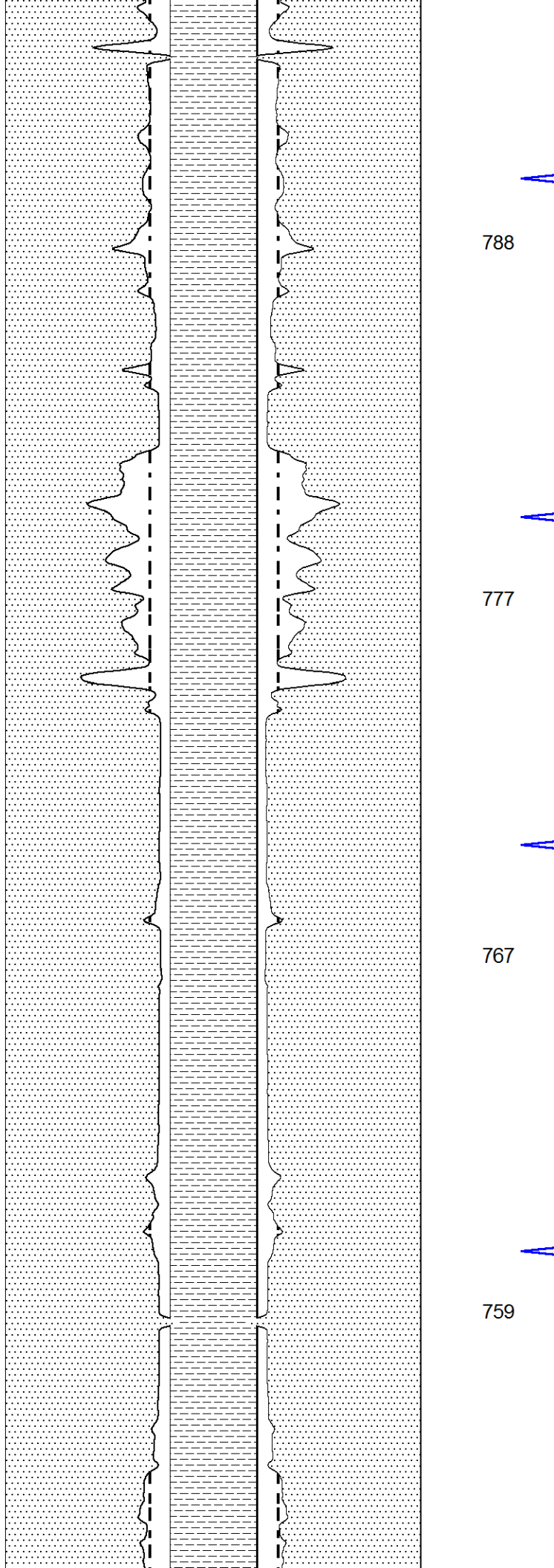
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1250

1318

1300

1302

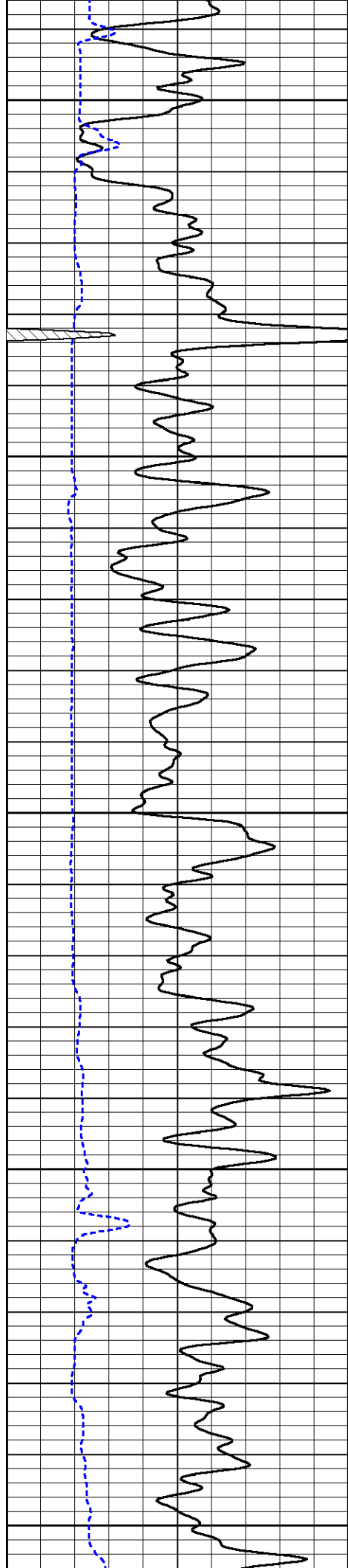


788

777

767

759



1350

1284

1400

1266

1450

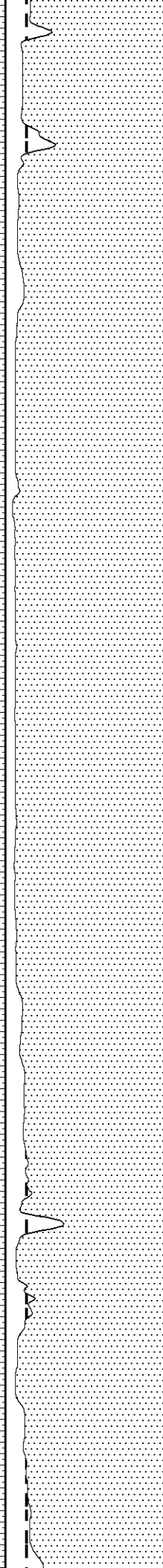
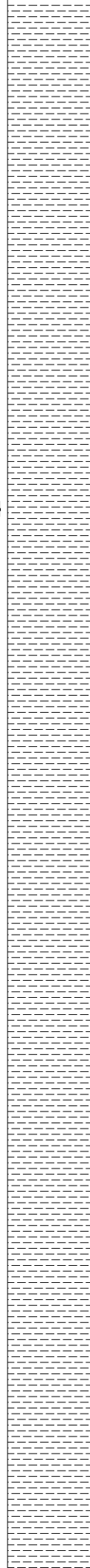
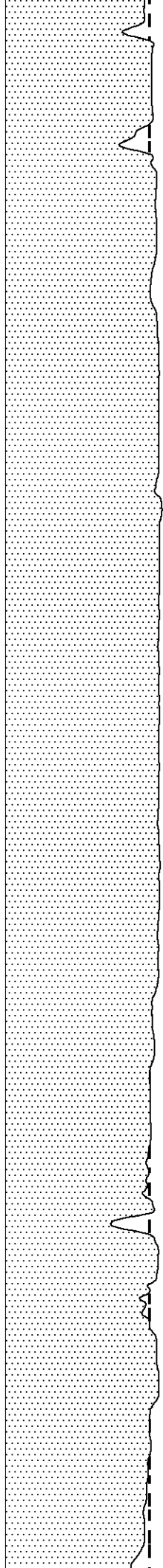
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1500

1232

1550

1215



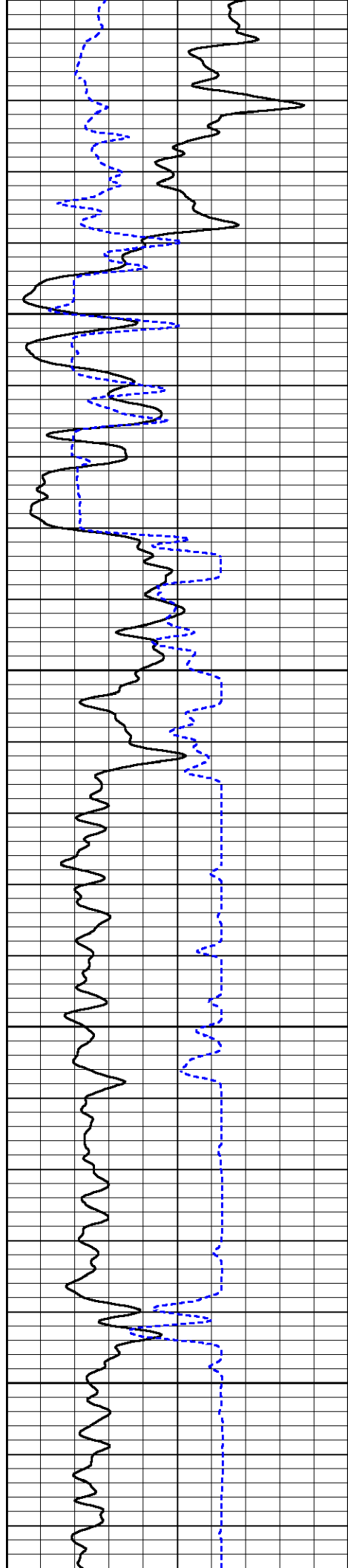
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740

731

723

713



1600

1196

1650

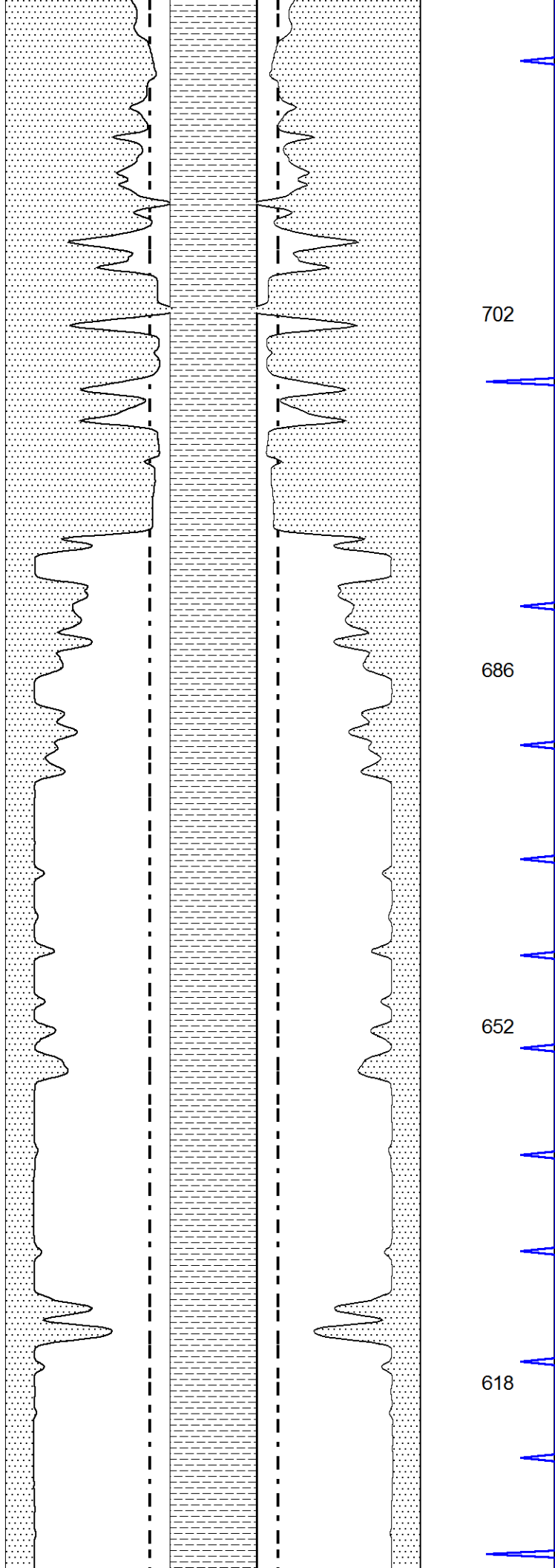
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1700

1129

1750

1087

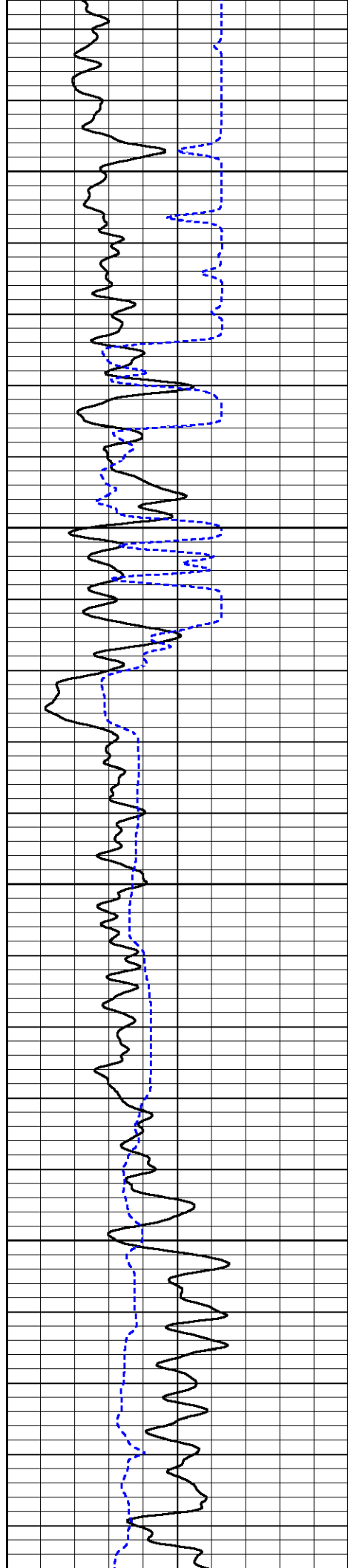


702

686

652

618



1800

1043

1850

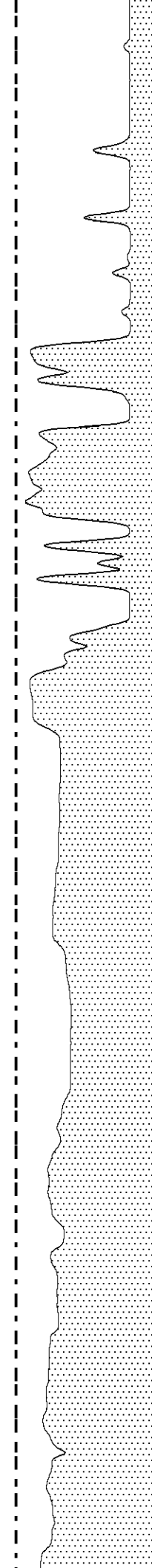
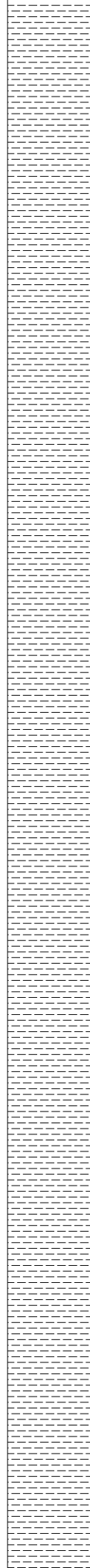
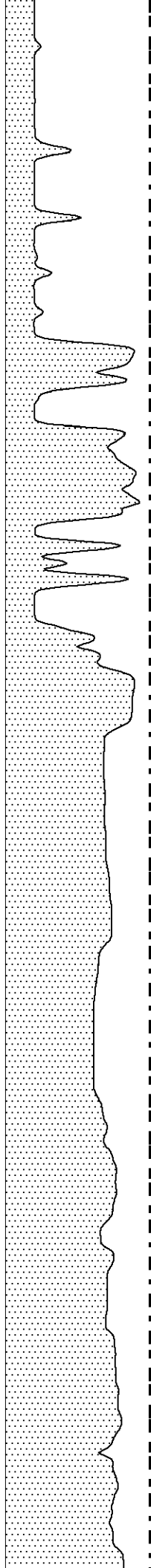
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1900

983

1950

961

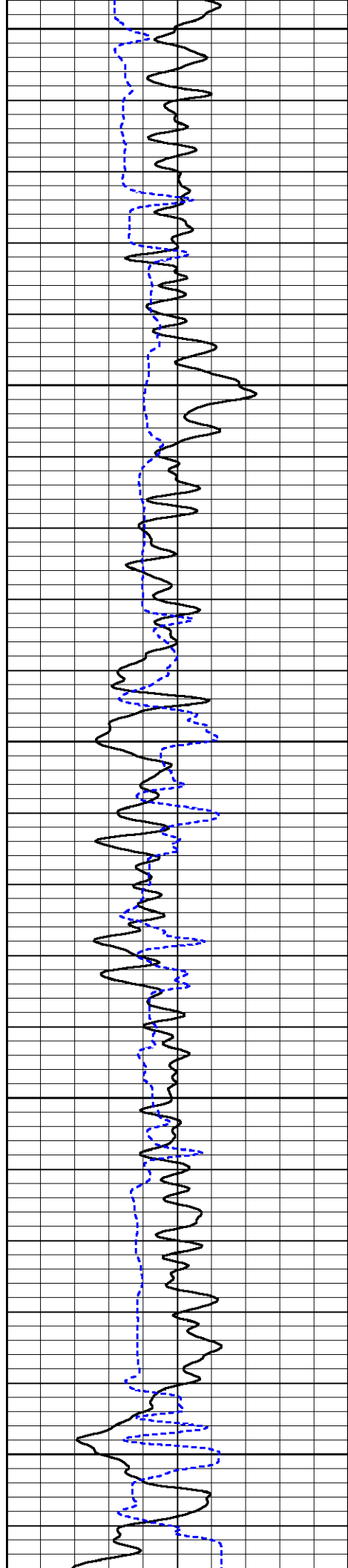


583

557

539

525



2000

940

2050

918

2100

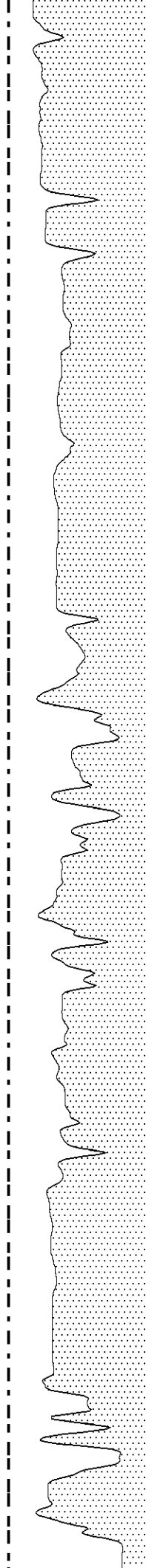
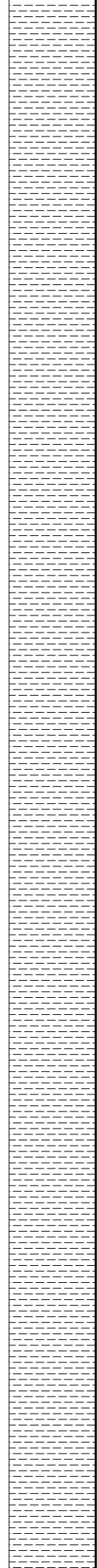
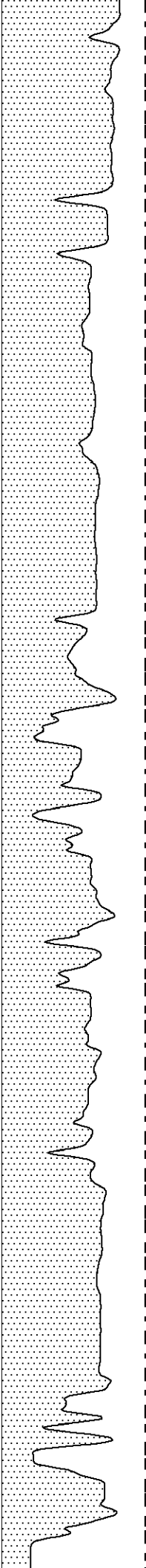
894

2150

869

2200

846



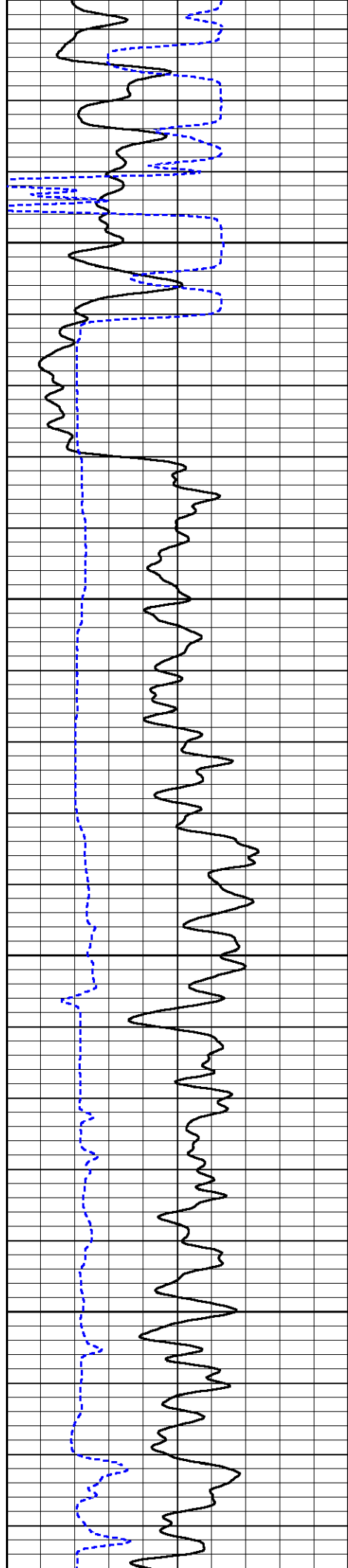
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499

484

466

451



2250

812

2300

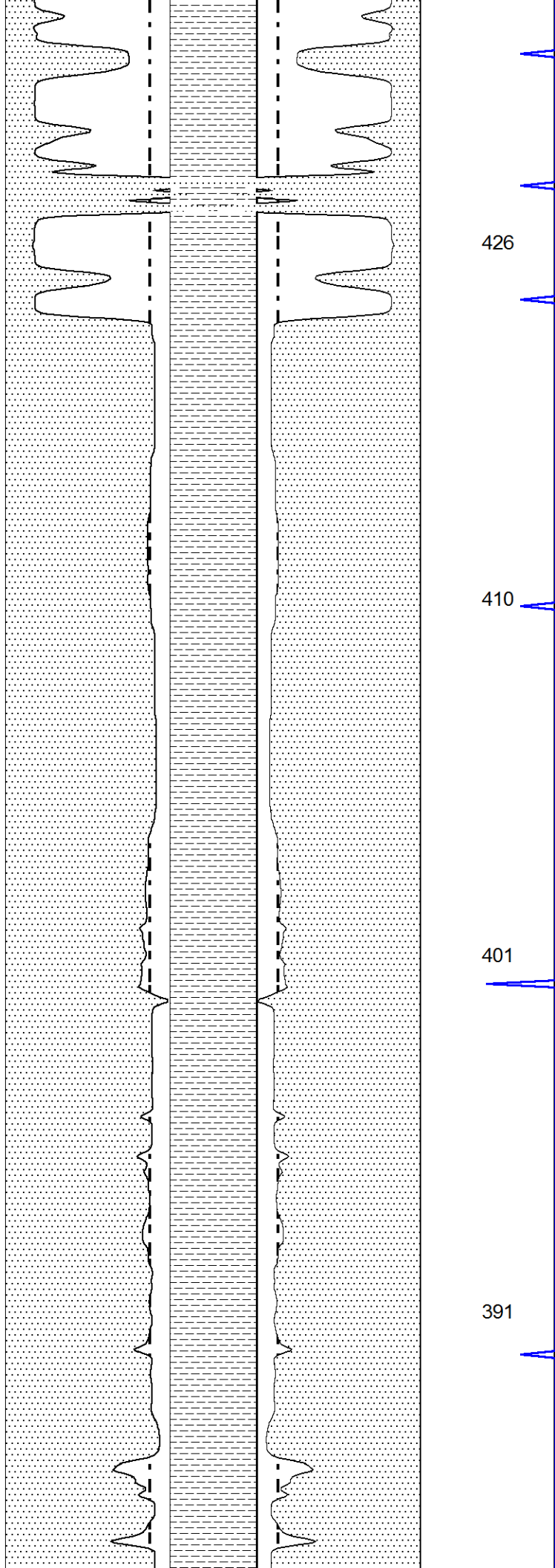
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2350

771

2400

753

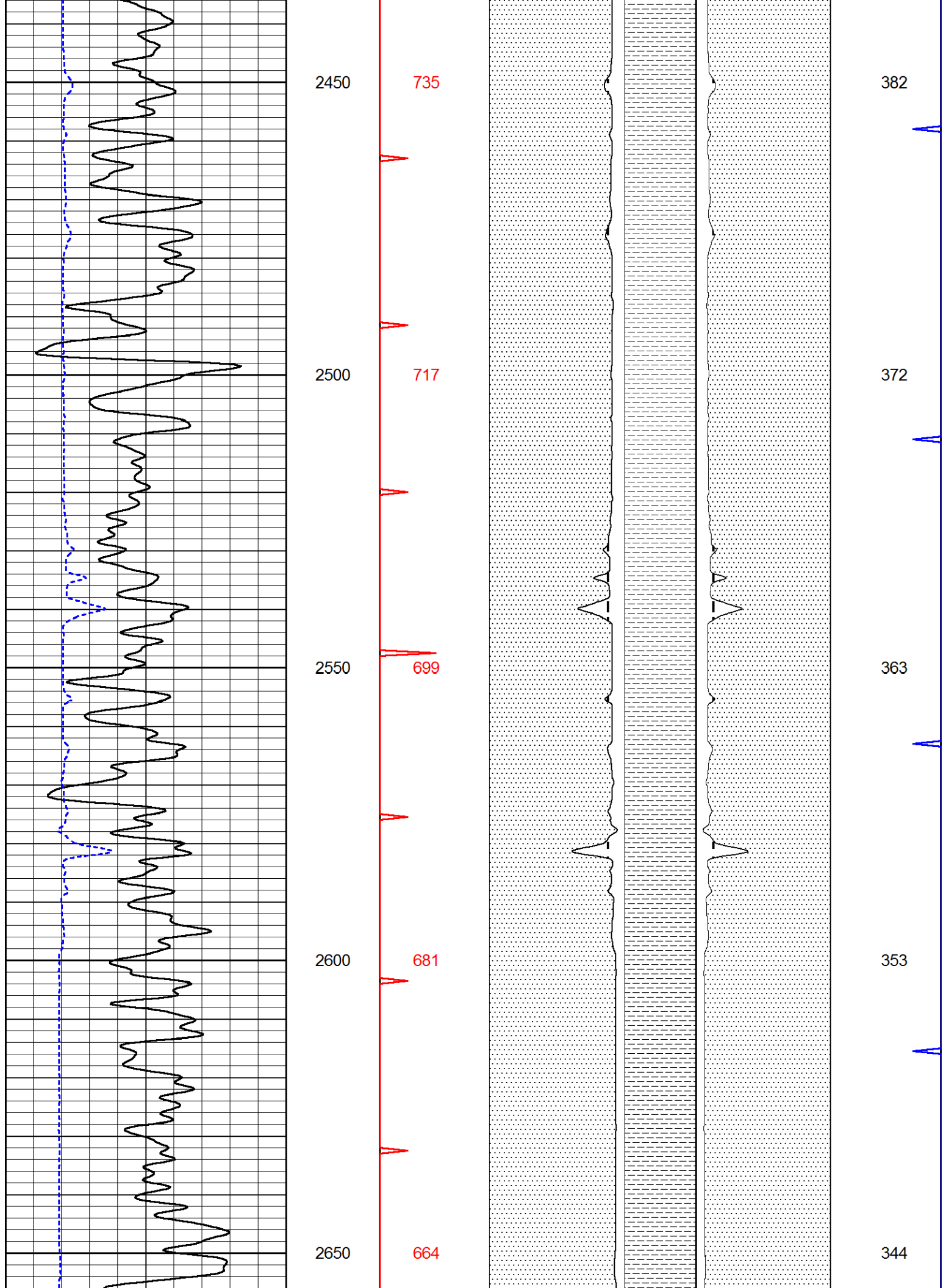


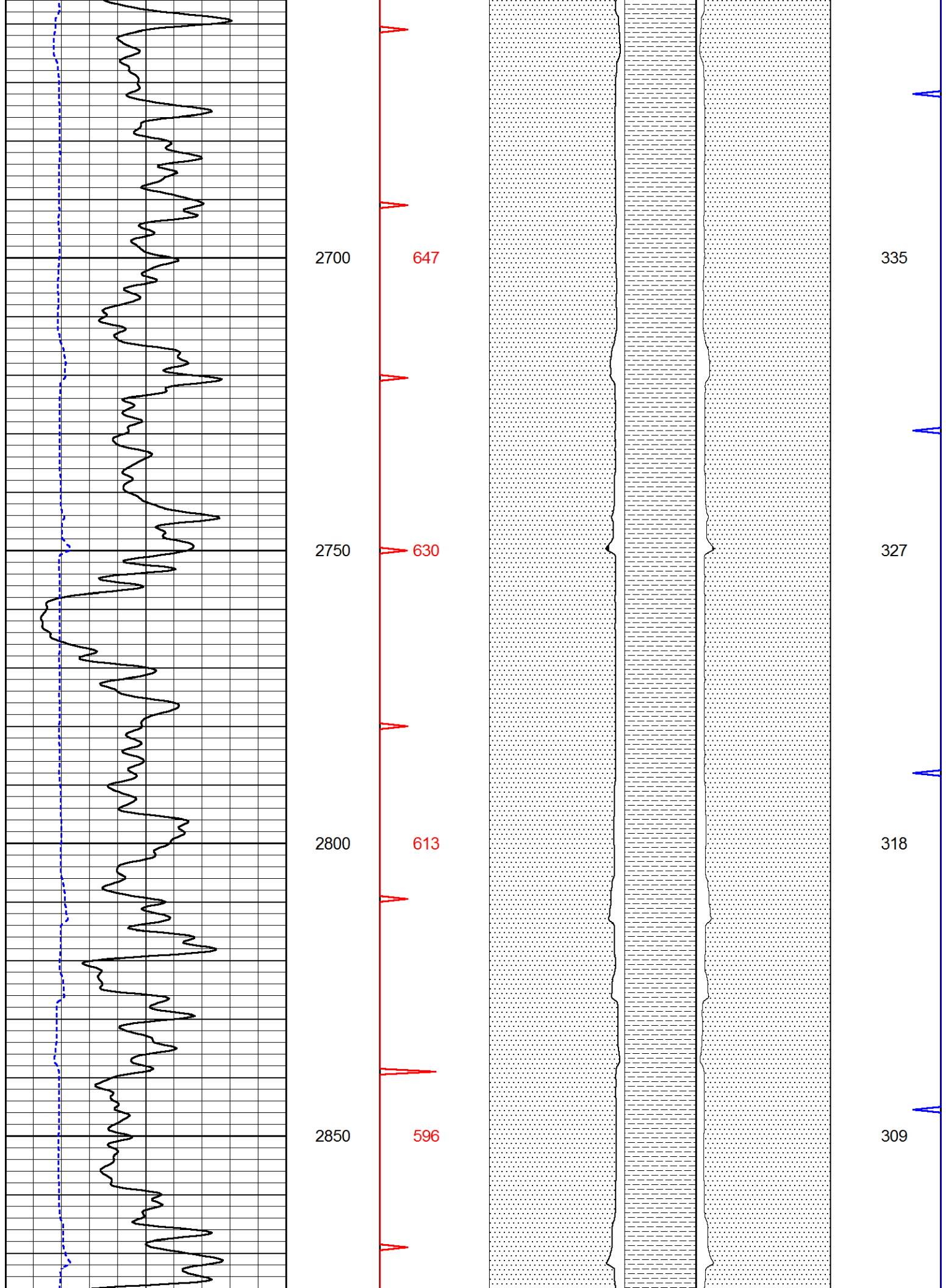
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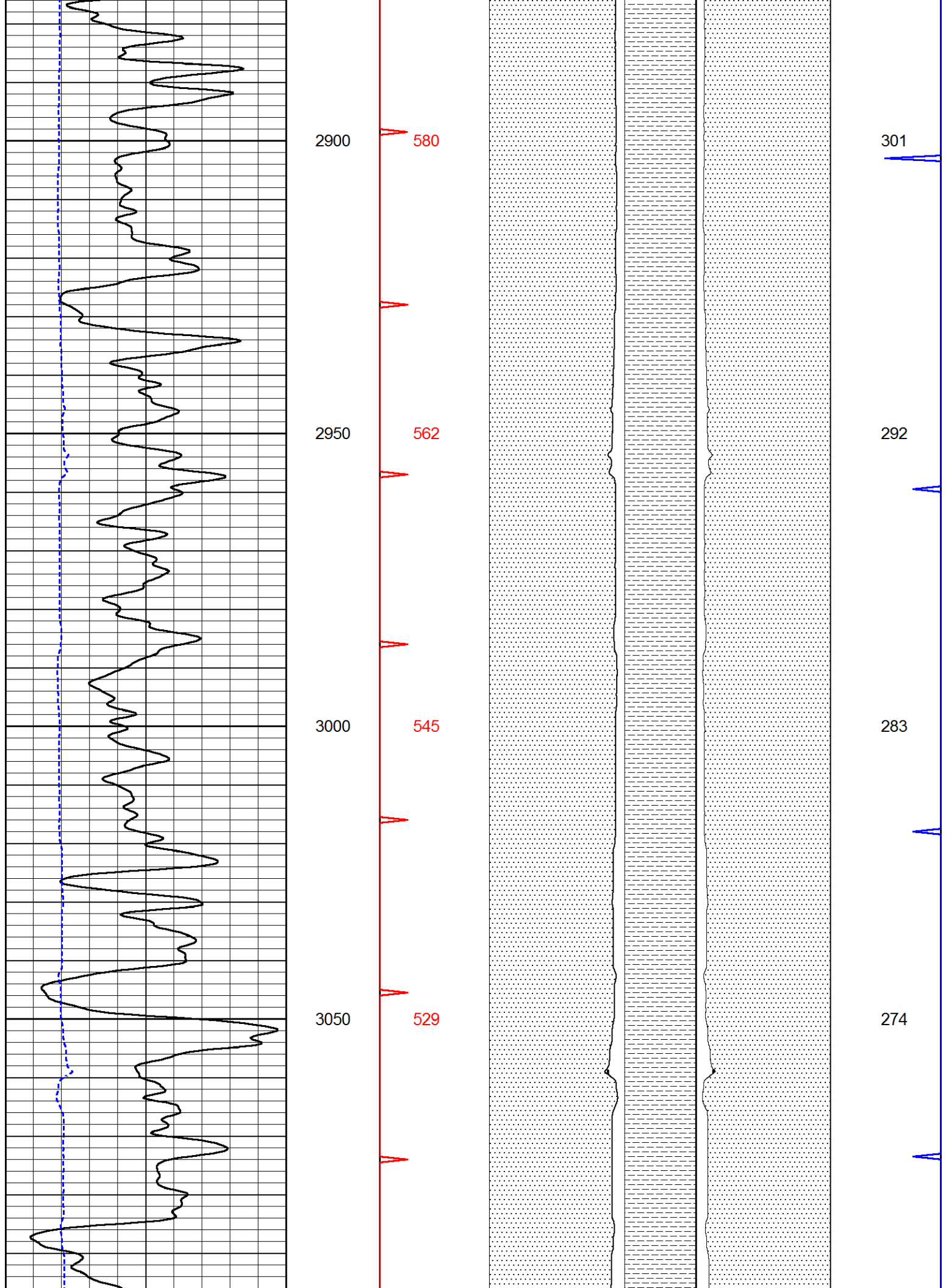
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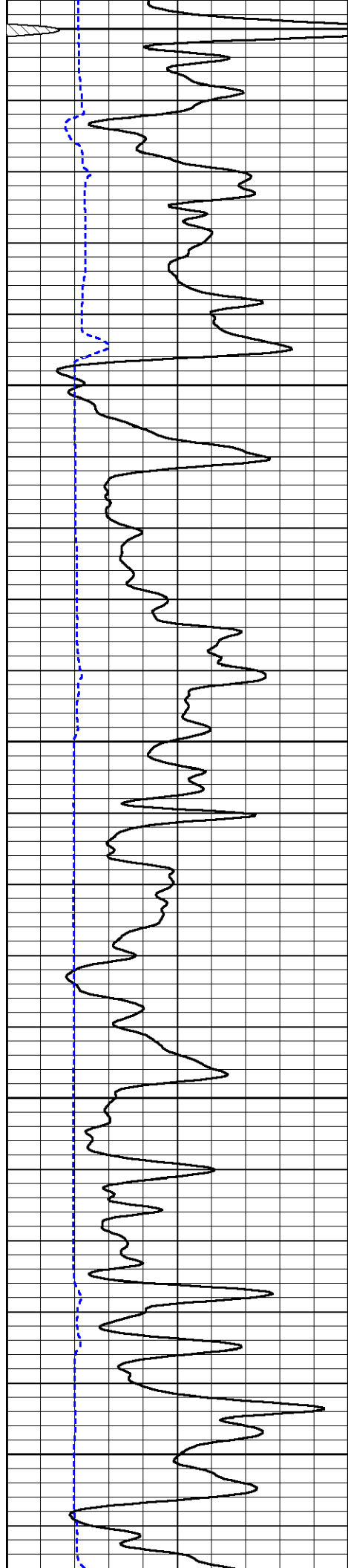
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391









3100

511

3150

493

3200

476

3250

459

3300

442

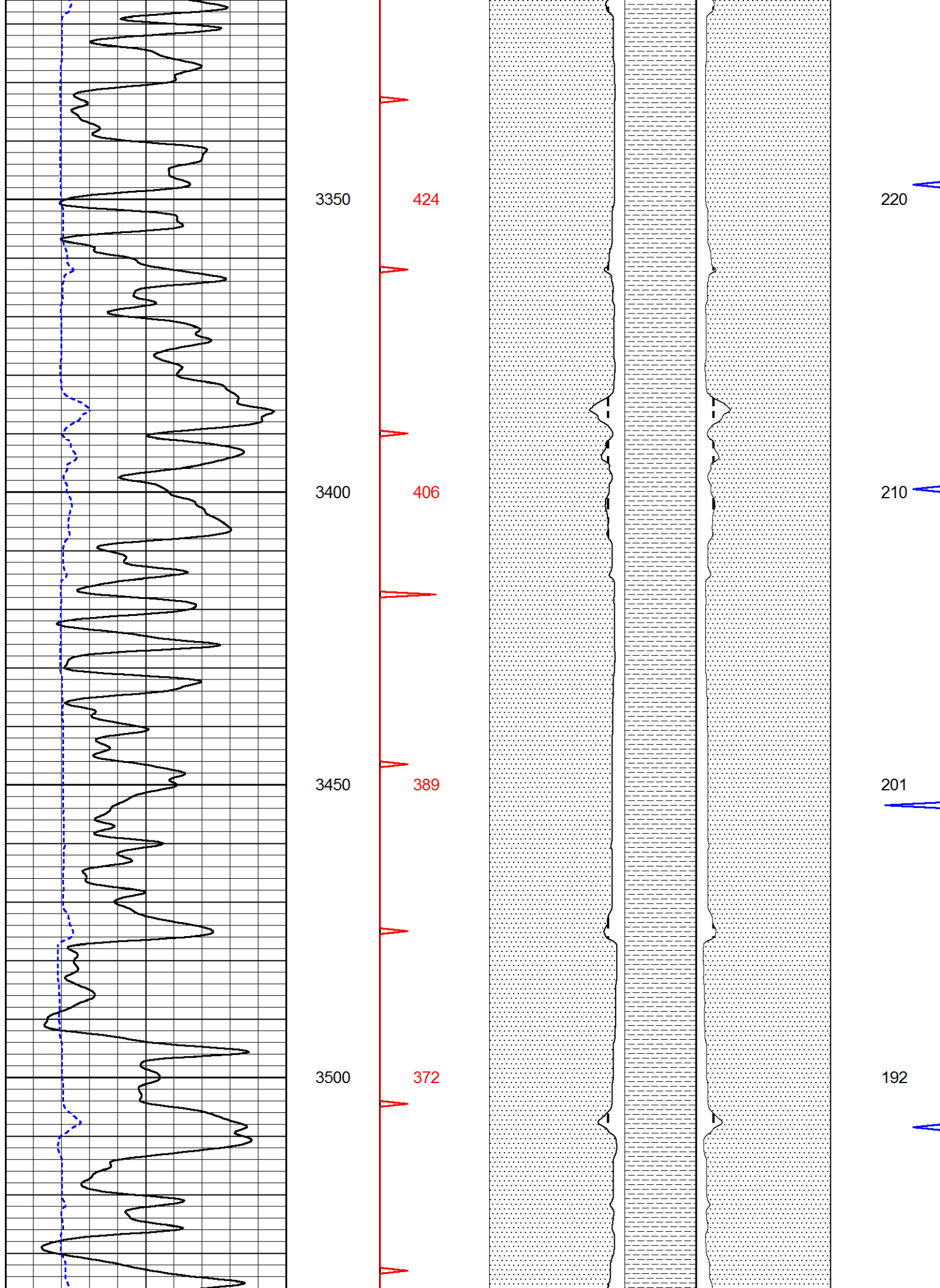
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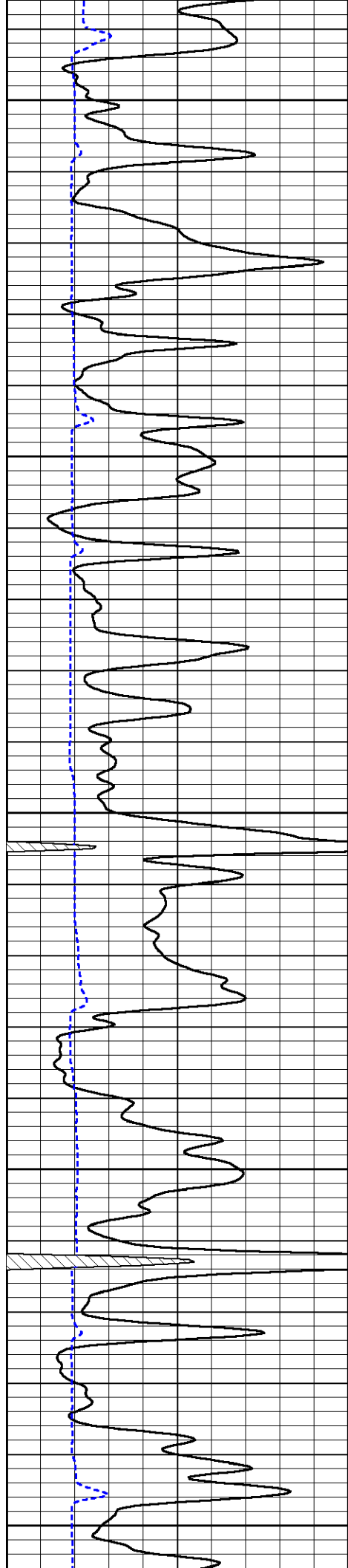
256

247

238

229





3550

354

3600

337

3650

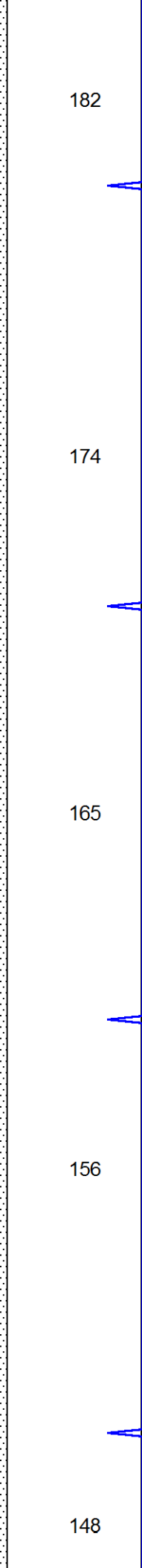
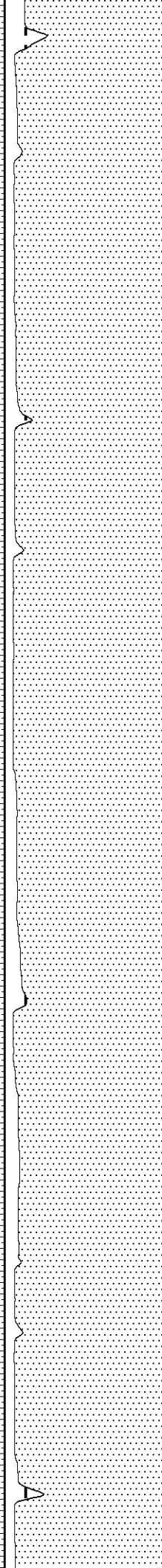
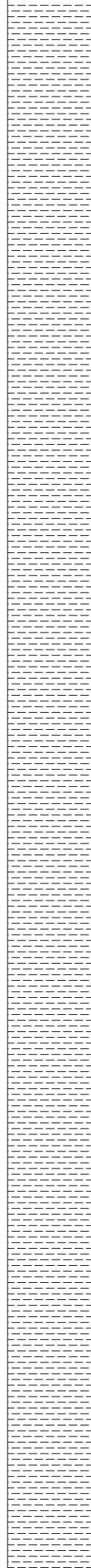
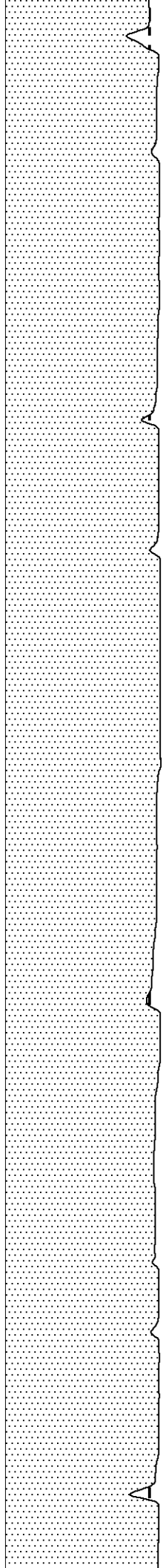
320

3700

303

3750

286



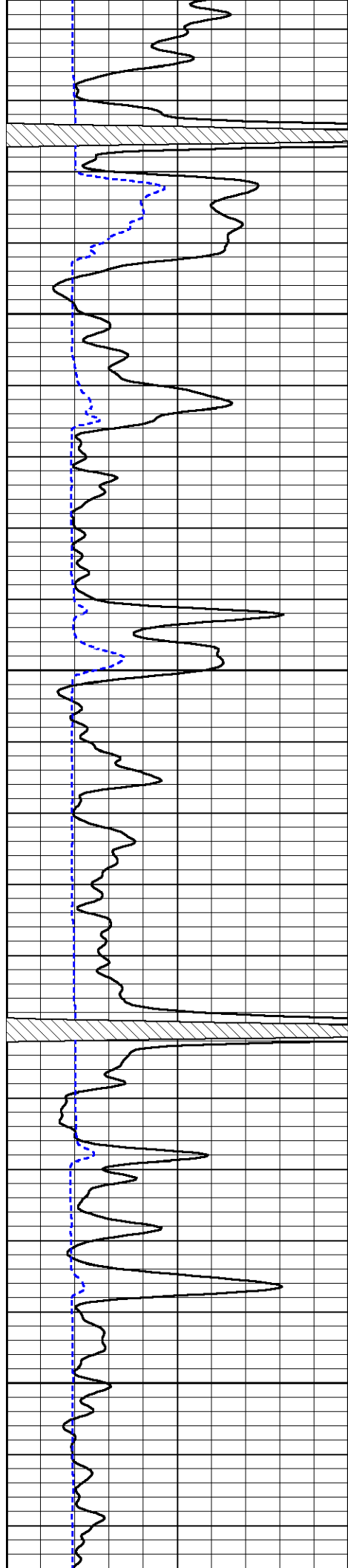
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174

165

156

148



3800

269

3850

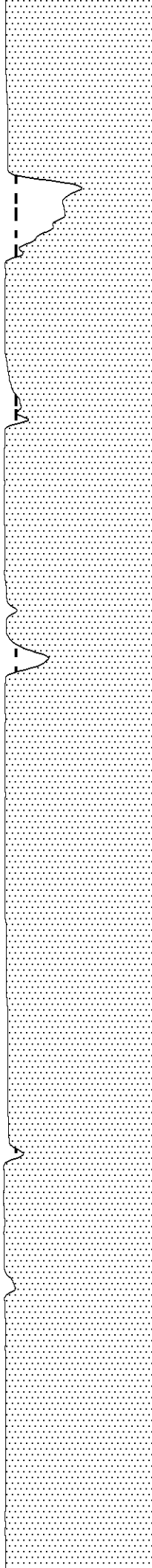
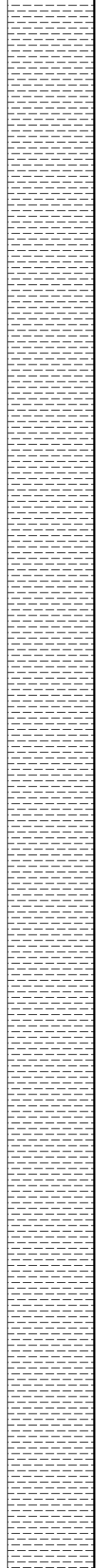
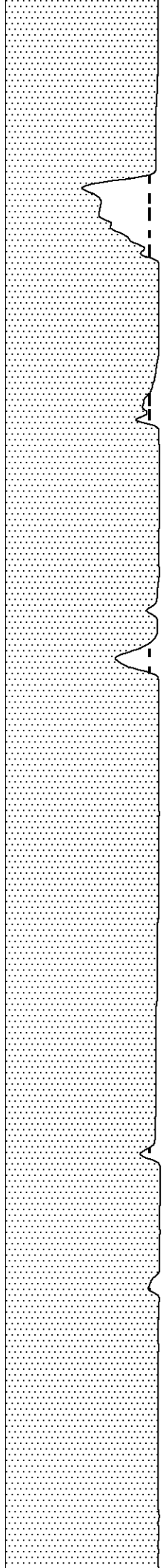
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3900

235

3950

218

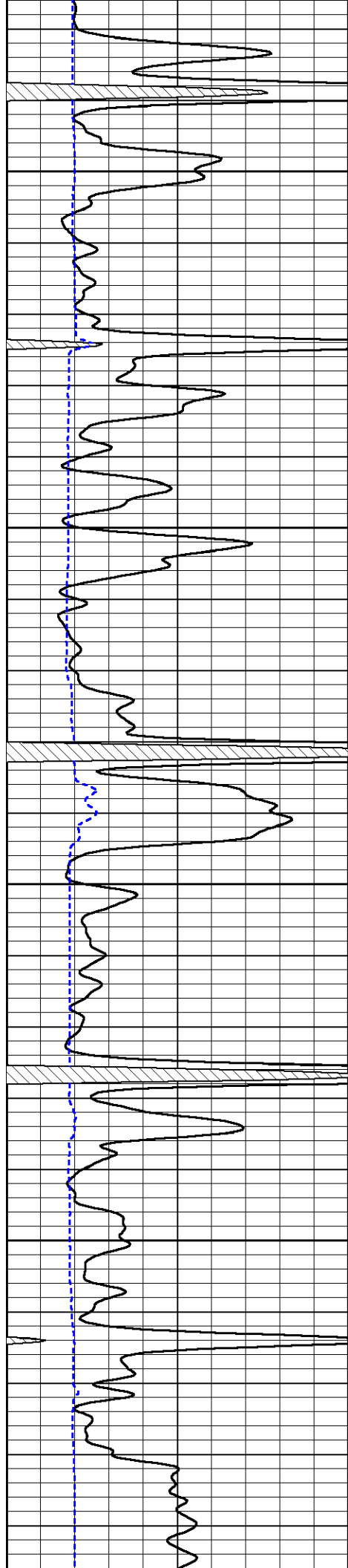


138

129

121

112



4000

201

103

4050

184

95

4100

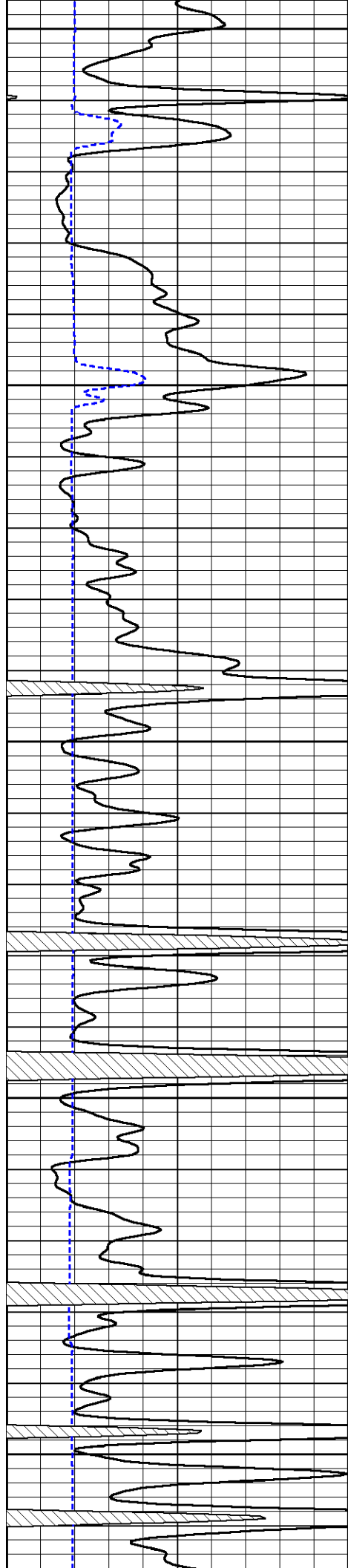
167

86

4150

150

77



4200

133

4250

115

4300

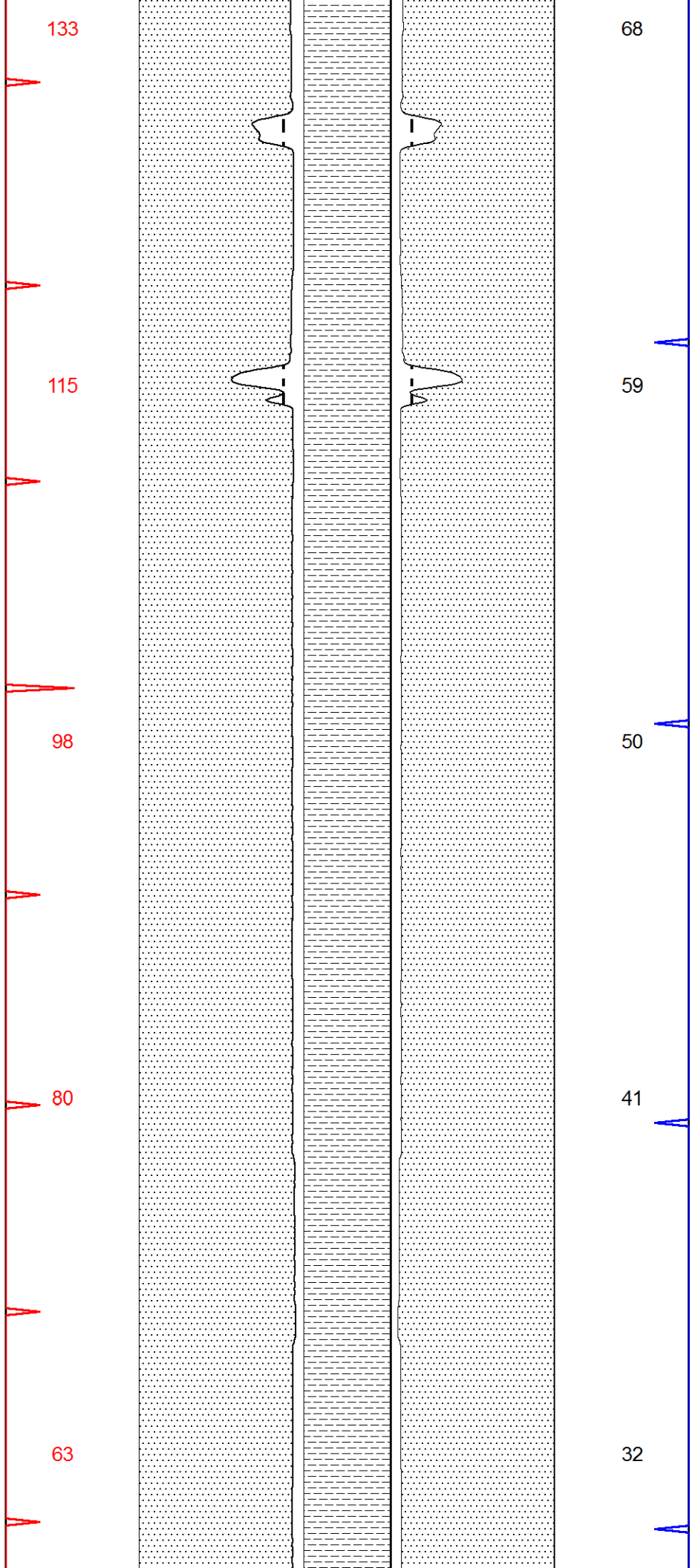
98

4350

80

4400

63



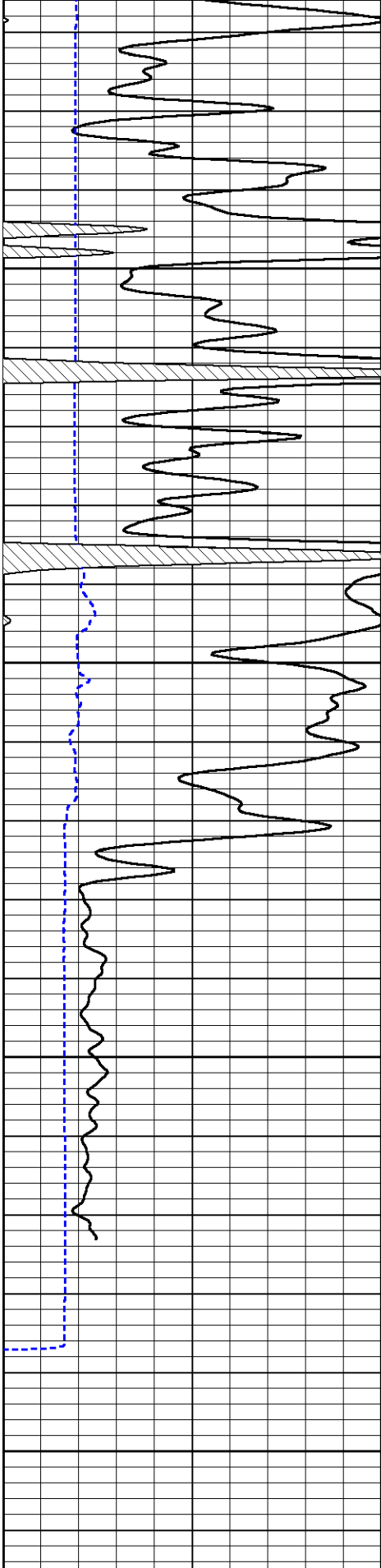
68

59

50

41

32



4450

46

23

4500

29

14

4550

13

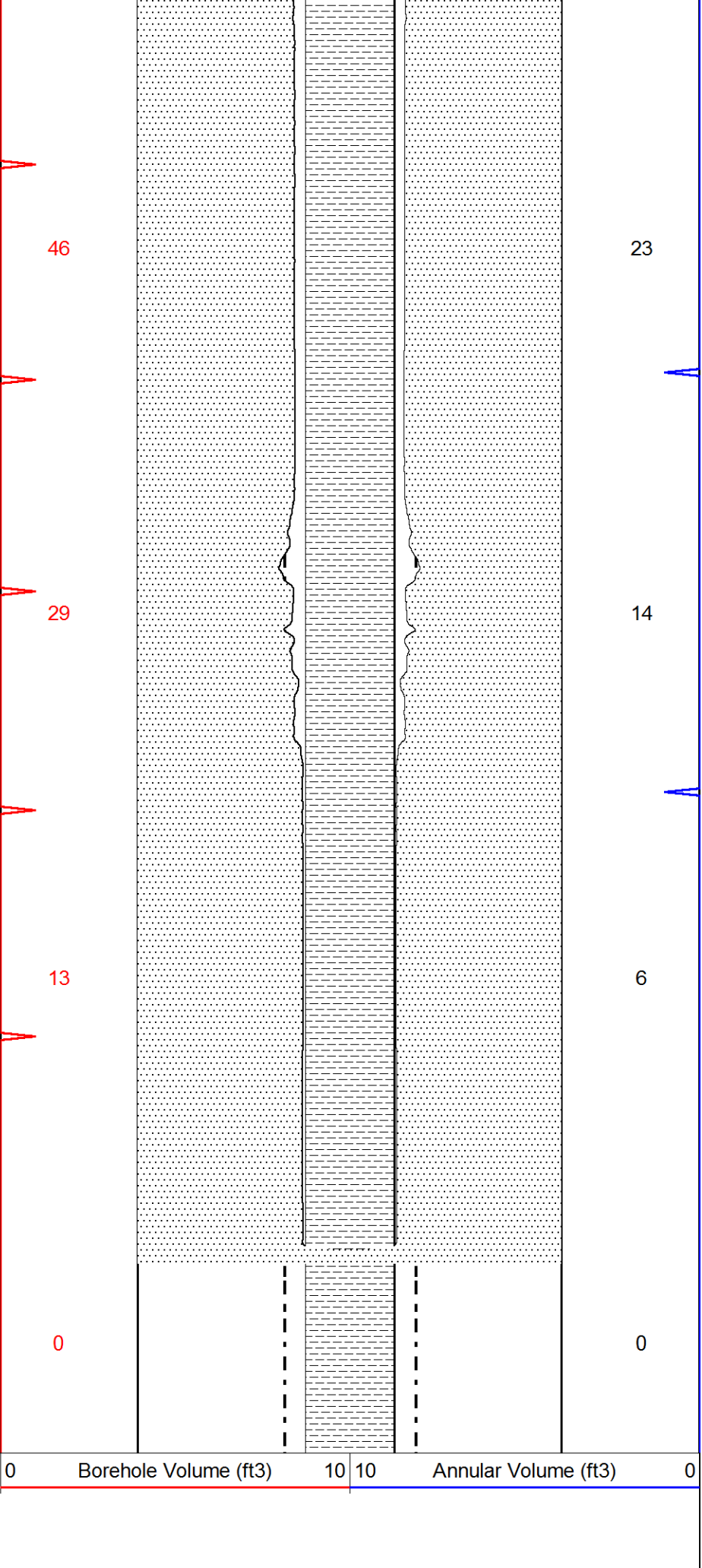
6

4600

0

0

0	Gamma Ray (GAPI)	150
150	GR (GAPI)	300
6	DCAL (in)	16



0	Borehole Volume (ft3)	10	10	Annular Volume (ft3)	0
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Database File		cobalt_mcdanieltrust 1-18.db		Calibration Report			
Dataset Pathname		stkml/pass4.1					
Dataset Creation		Wed Dec 23 09:10:21 2020					
Dual Induction Calibration Report							
Serial-Model:		952-828-PSI HIGH TEMP					
Calibration Performed:		Sun Jun 28 08:39:24 2020					
		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-30.000
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.325	-28.000
Microlog Calibration Report							
Serial-Model:		PSI-01-PSIML					
Performed:		Tue Sep 29 10:01:17 2020					
		Readings		References		Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	23000.0000	-2.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	21000.0000	-1.3000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.5500
Compensated Density Calibration Report							
Serial-Model:		817-947-M&W					
Source / Verifier:		16955B / 2ci					
Master Calibration Performed:		Sun Sep 20 22:09:47 2020					
Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps		
Aluminum	2.680	g/cc	1141.85	3762.09	cps		
		Spine Angle = 74.89		Density/Spine Ratio = 0.532			
		Size		Reading			
Small Ring	4.50	in	1.02				
Large Ring	14.50	in	1.23				
Compensated Neutron Calibration Report							
Serial Number:		207-MW					
Tool Model:		M&W					
Calibration Performed:		WED FEB 13 10:30:30 2019					
Detector		Readings		Target		Normalization	
Short Space	6240.00	cps	1000.00	cps	1.6025		
Long Space	460.00	cps	1000.00	cps	1.9500		

Gamma Ray Calibration Report

Serial Number:	233-M&W	
Tool Model:	M&W	
Calibration Performed:	Sun Sep 20 22:10:24 2020	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps