

MIDWEST WIRELINE

GAMMA RAY / CALIPER LOG

Company American Warrior, Inc.
Well Wark #1-21
Field
County Thomas State Kansas

Location: API #: 15-193-21130-00-00
1218 FSL & 349 FEL
SEC 21 TWP 6S RGE 31W
Permanent Datum Ground Level Elevation 2951
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
CNL/CDL
DIL/MEL
BHCS
Elevation
K.B. 2962
D.F.
G.L. 2951

Date 8/29/2024

Run Number One
Type Log BHV
Depth Driller 4563
Depth Logger 4562
Bottom Logged Interval 4541
Top Logged Interval 350
Type Fluid In Hole Chemical
Salinity, PPM CL 3000
Density 9.4
Level Full
Max. Rec. Temp. F 118
Operating Rig Time 4 Hours
Equipment -- Location 110 HAYS
Recorded By D. Schmidt
Witnessed By Marc Downing

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	352	8.625	23	0	352
Two	7.875	352	TD				

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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.

Rexford,
North to Y Rd, 1 West, 1North, 1 West, 1 1/4 North,
West 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

Engineer: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Marc Downing
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\amwar_wark 1-21.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom							
A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	118	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	175	85		4562



MIDWEST WIRELINE

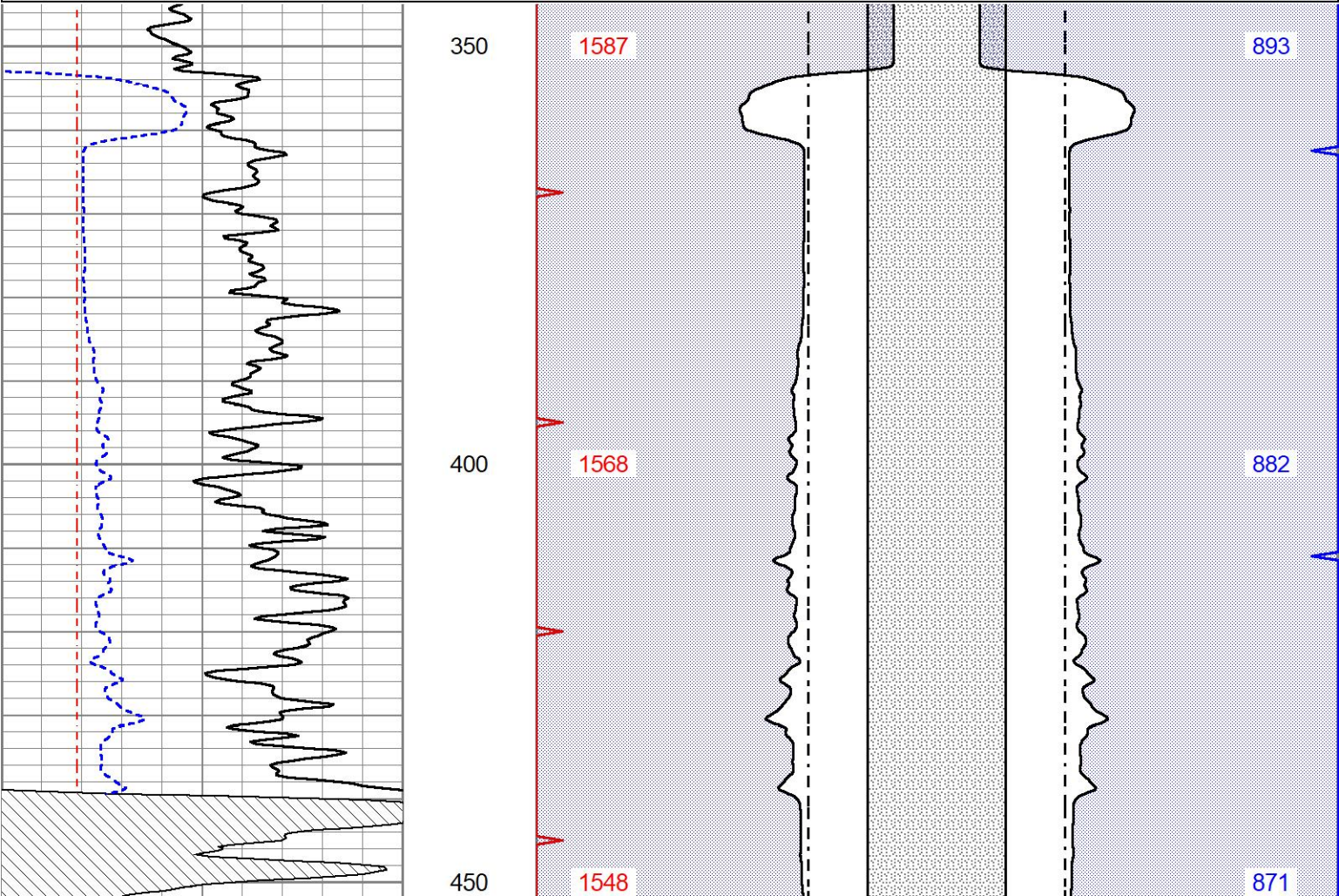
DETAIL SECTION

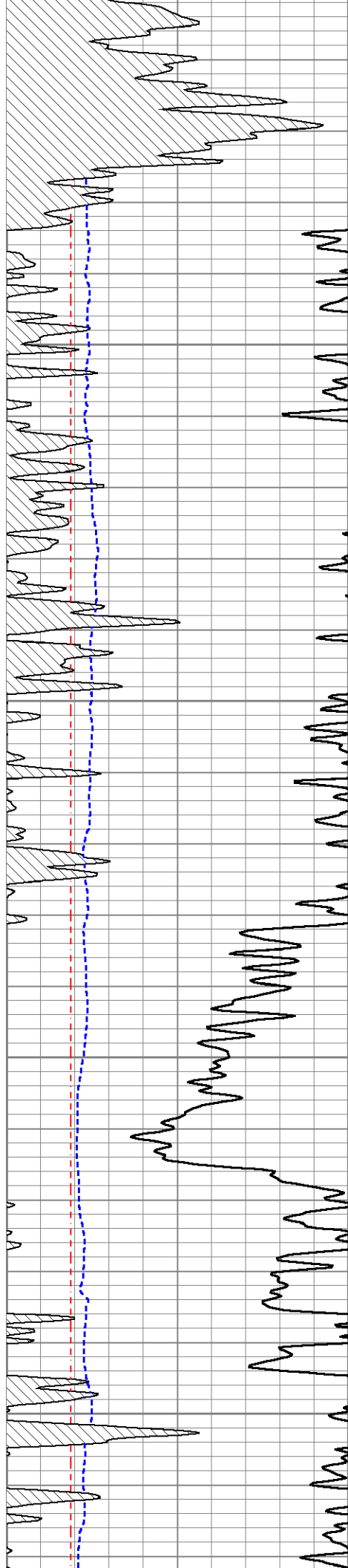
MAIN PASS

Database File
Dataset Pathname
Presentation Format
Dataset Creation
Charted by

amwar_wark 1-21.db
stack/pass3.1
bhv5half
Thu Aug 29 22:33:31 2024
Depth in Feet scaled 1:240

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





500

1529

550

1510

600

1491

650

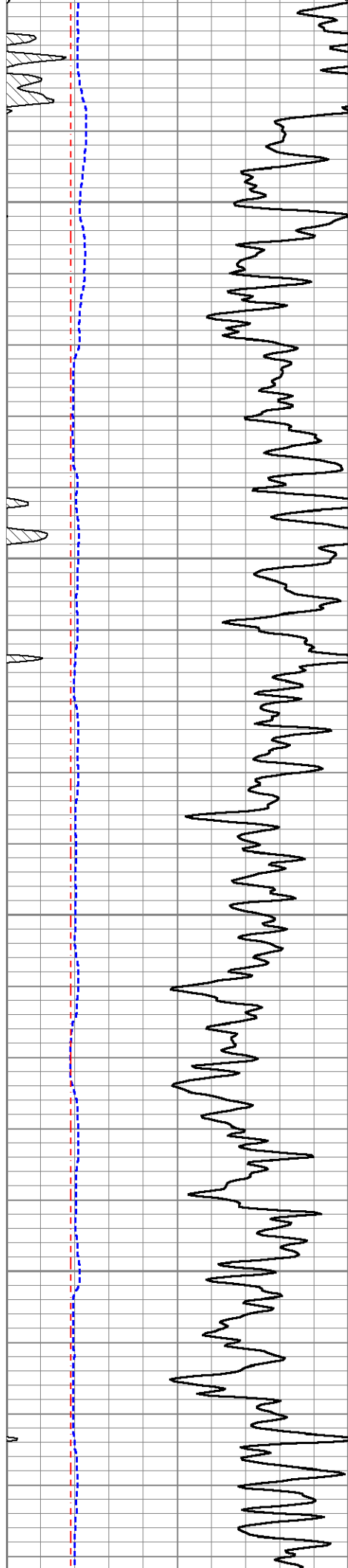
1472

860

849

838

828



700

1454

750

1436

800

1418

850

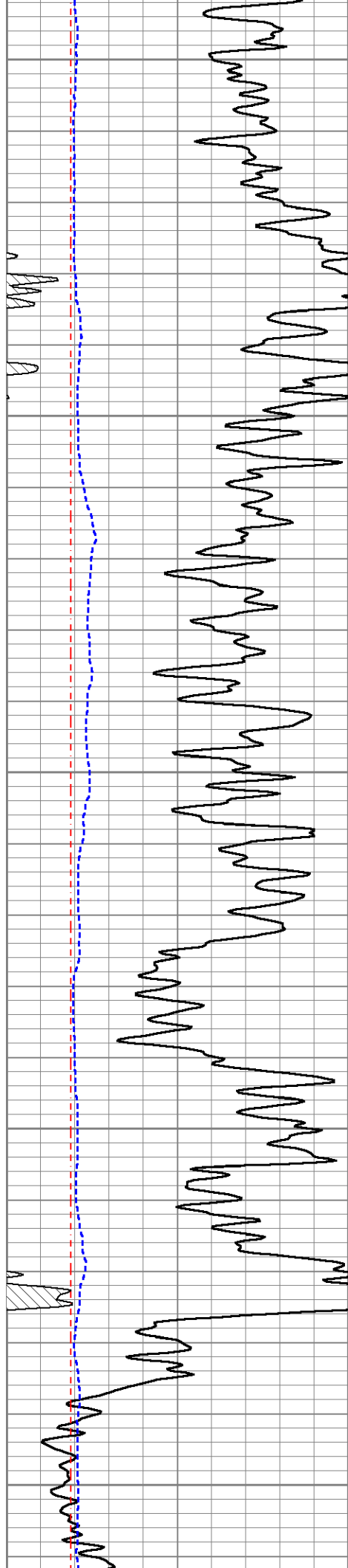
1401

818

808

799

789



900

1383

780

950

1366

771

1000

1347

760

1050

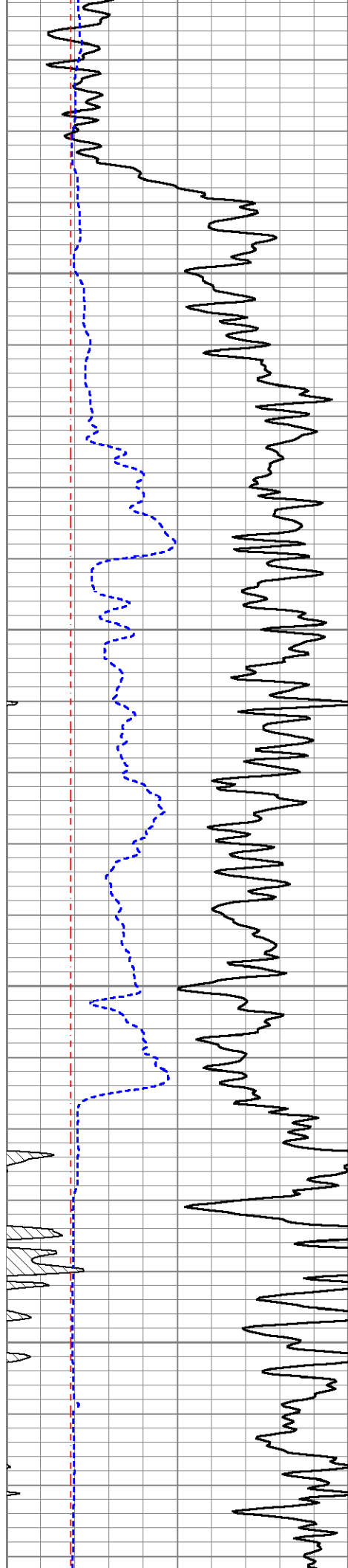
1329

750

1100

1311

741



1150

1293

1200

1271

1250

1246

1300

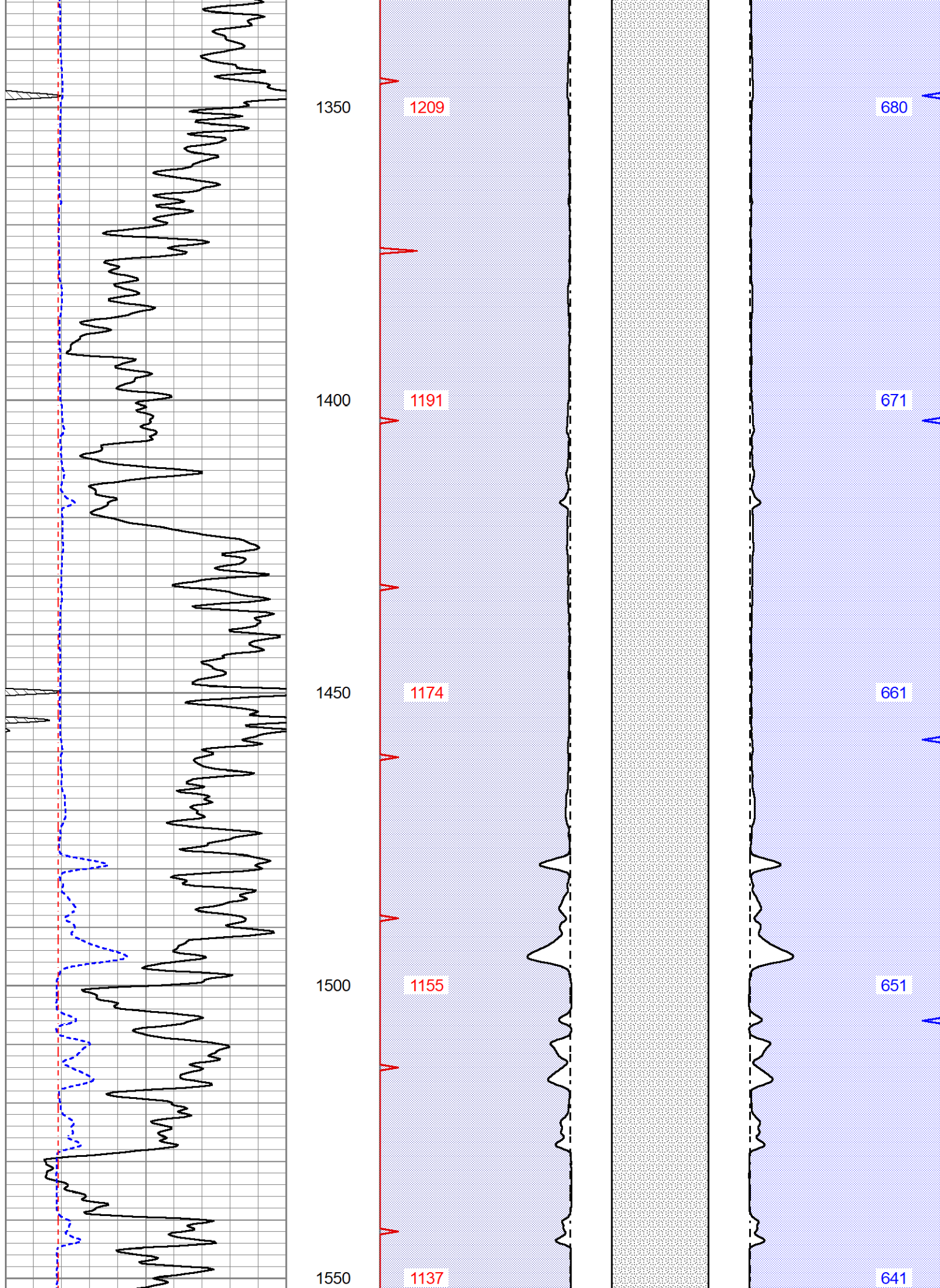
1226

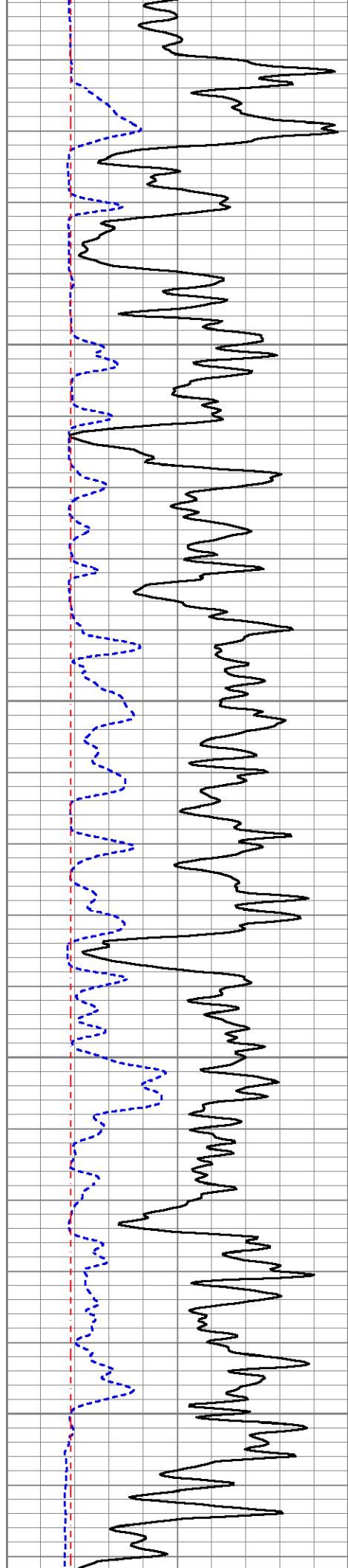
731

717

701

689





1600

1119

1650

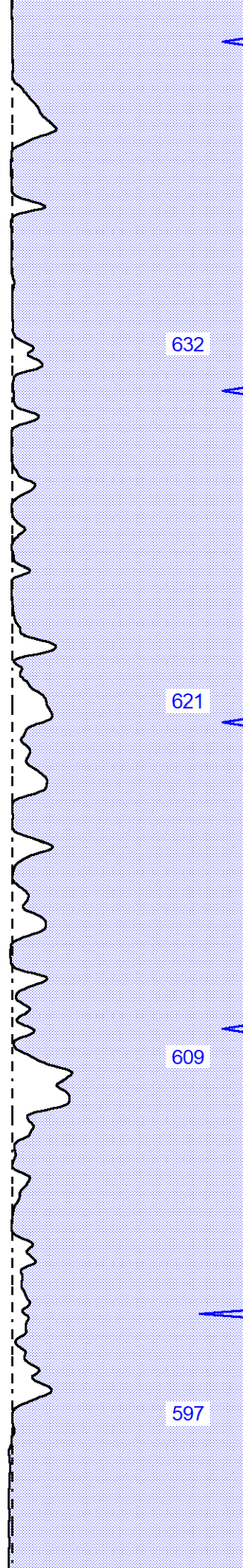
1100

1700

1080

1750

1060

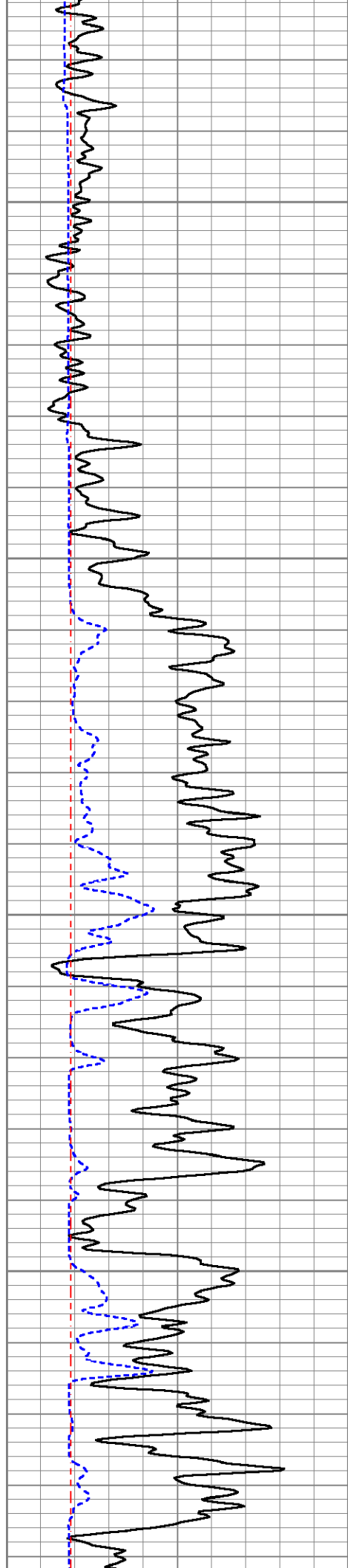


632

621

609

597



1800

1043

1850

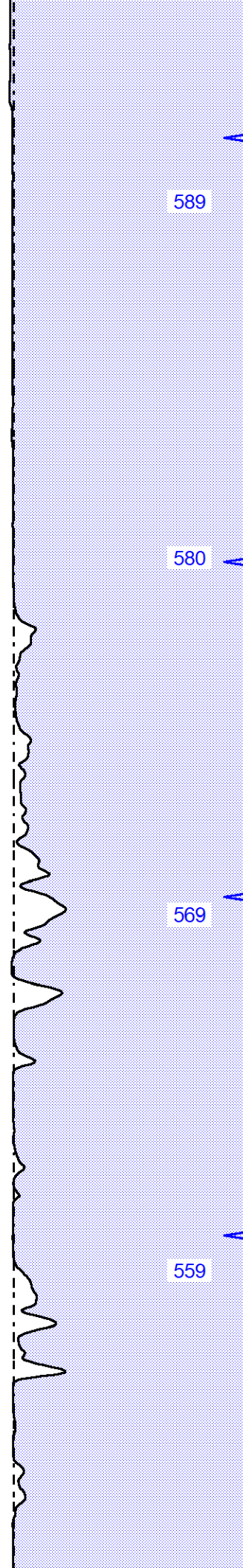
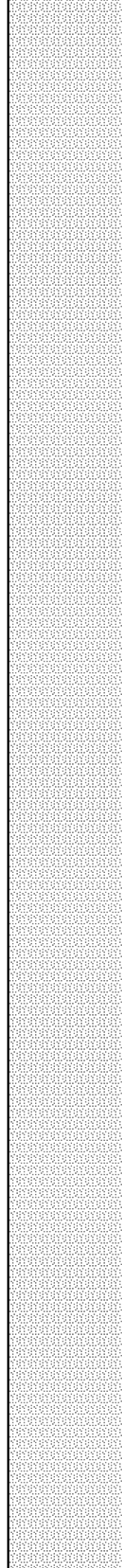
1027

1900

1007

1950

989

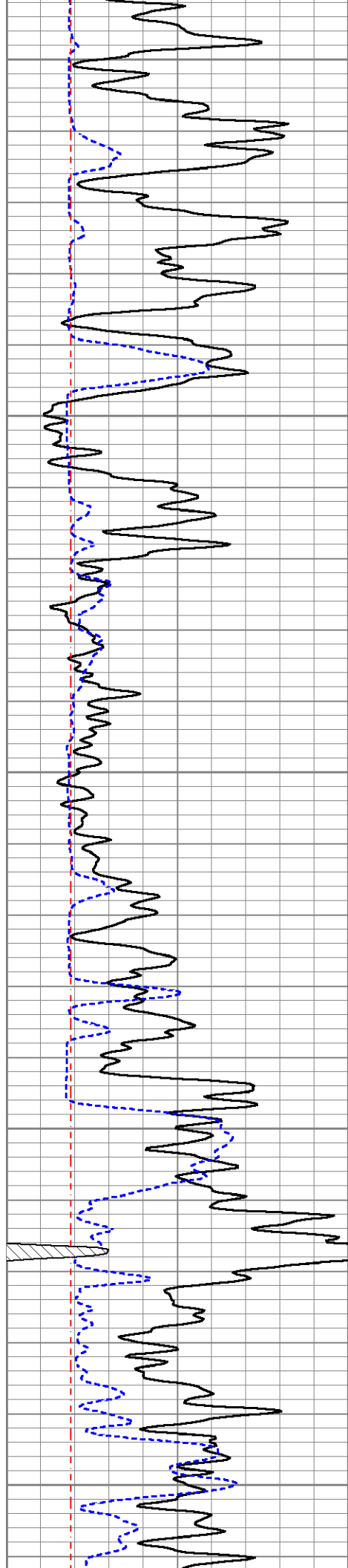


589

580

569

559



2000

971

2050

951

2100

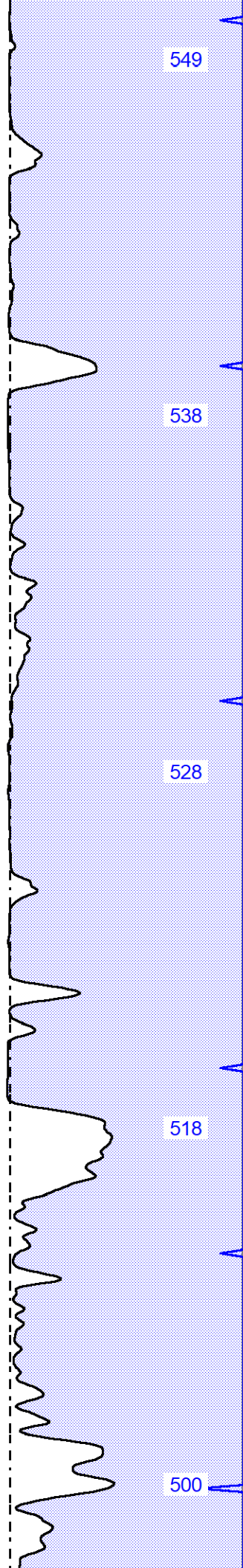
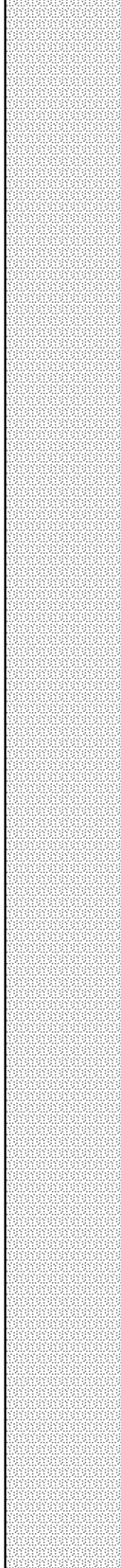
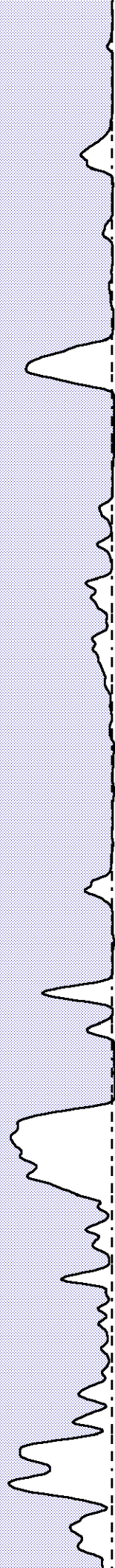
933

2150

914

2200

889



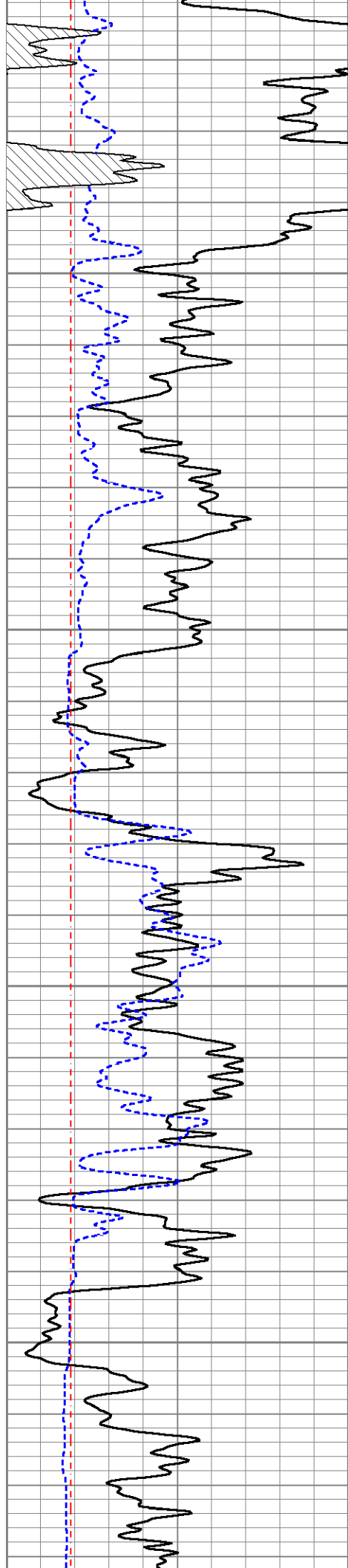
549

538

528

518

500



2250

868

2300

848

2350

824

2400

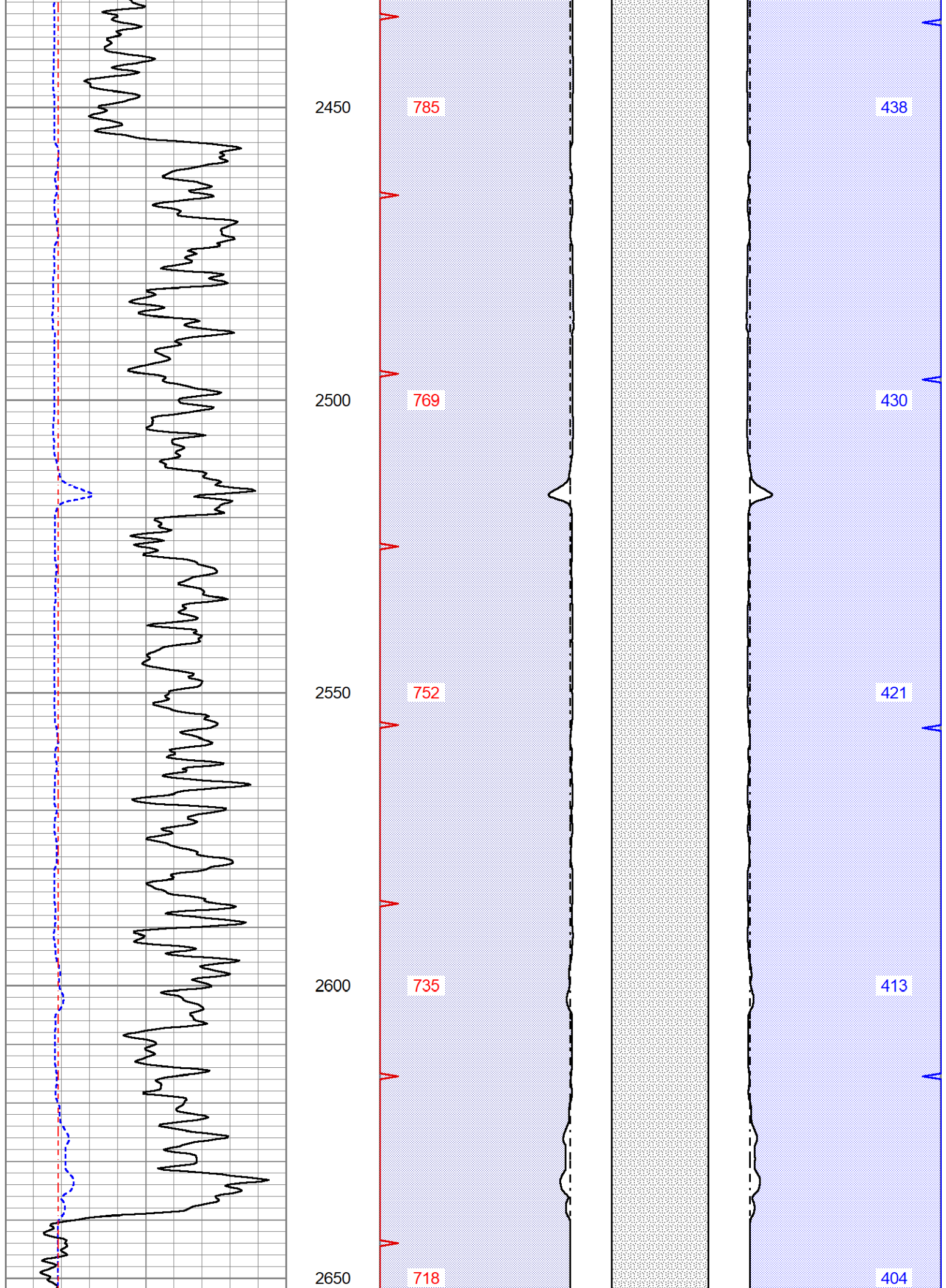
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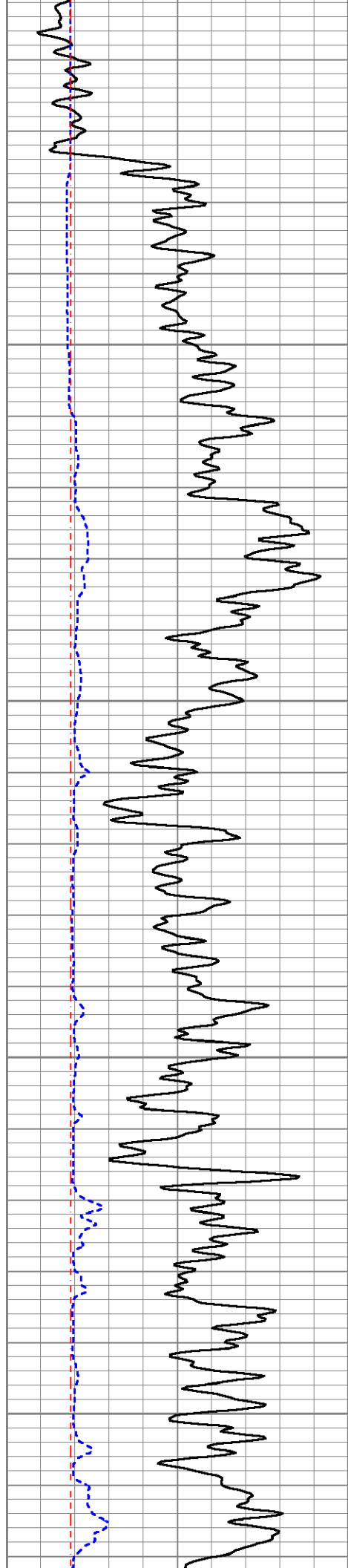
488

476

460

446





2700

701

2750

684

2800

666

2850

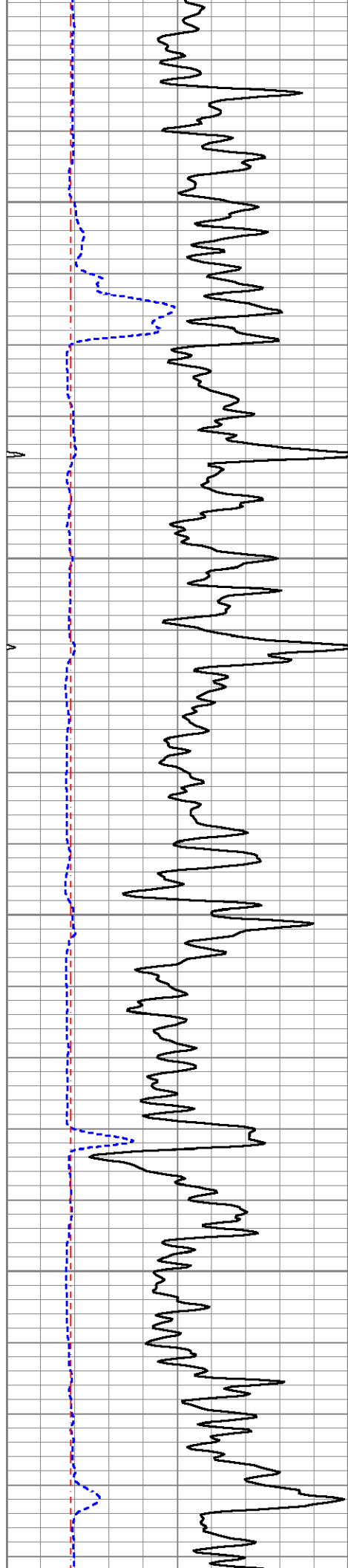
648

395

386

376

367



2900

631

2950

612

3000

595

3050

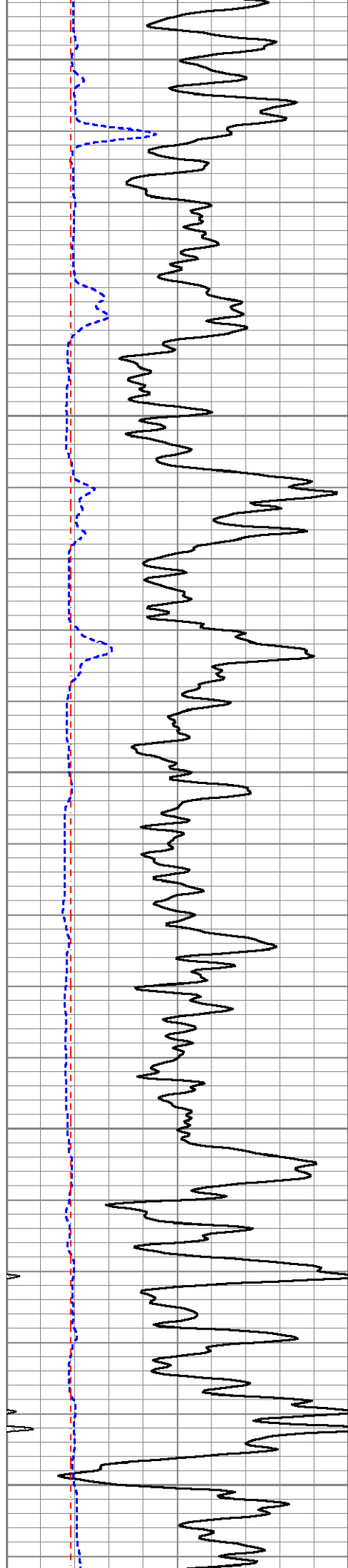
578

357

347

338

330



3100

561

3150

543

3200

526

3250

509

3300

492

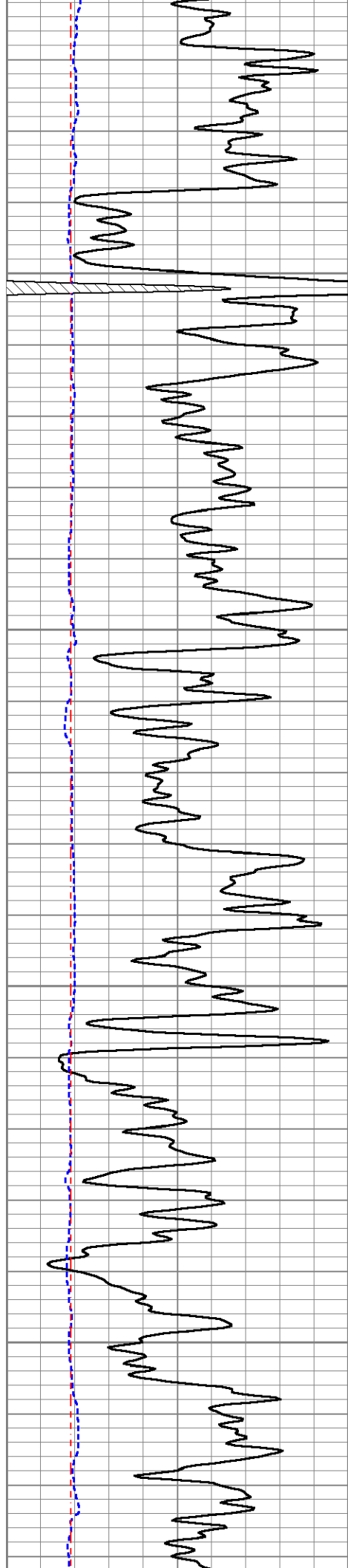
321

311

302

294

285



3350

475

3400

458

3450

441

3500

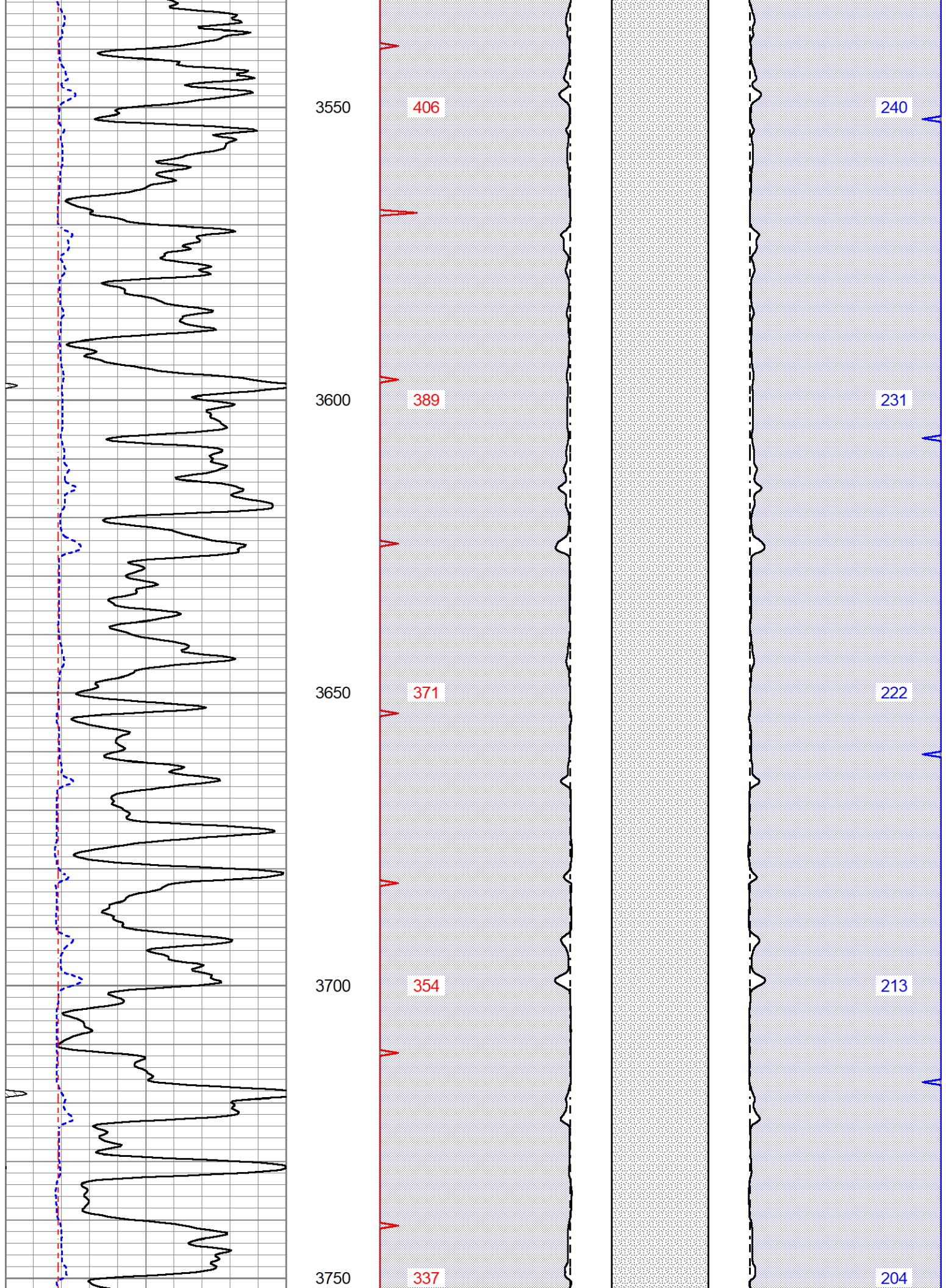
424

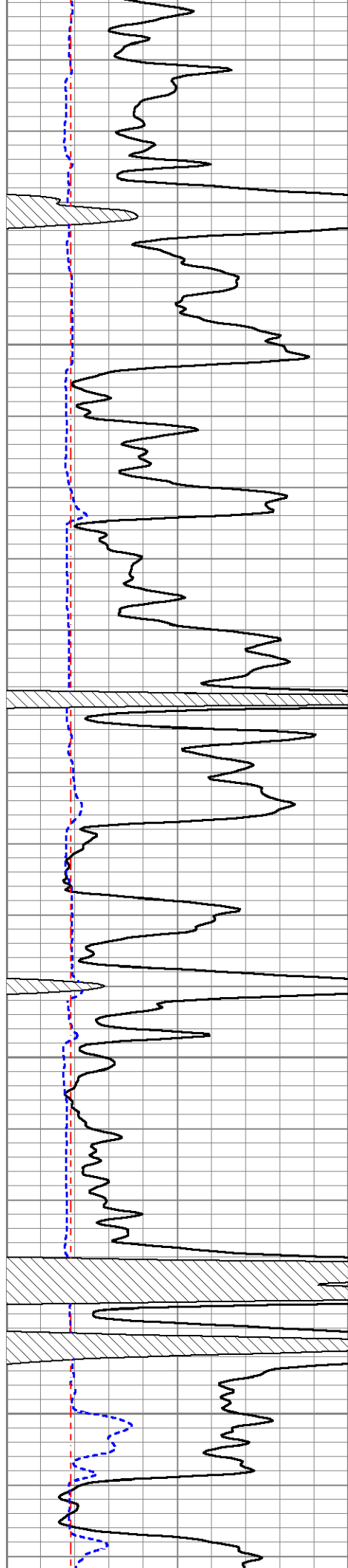
276

267

258

250





3800

320

3850

303

3900

286

3950

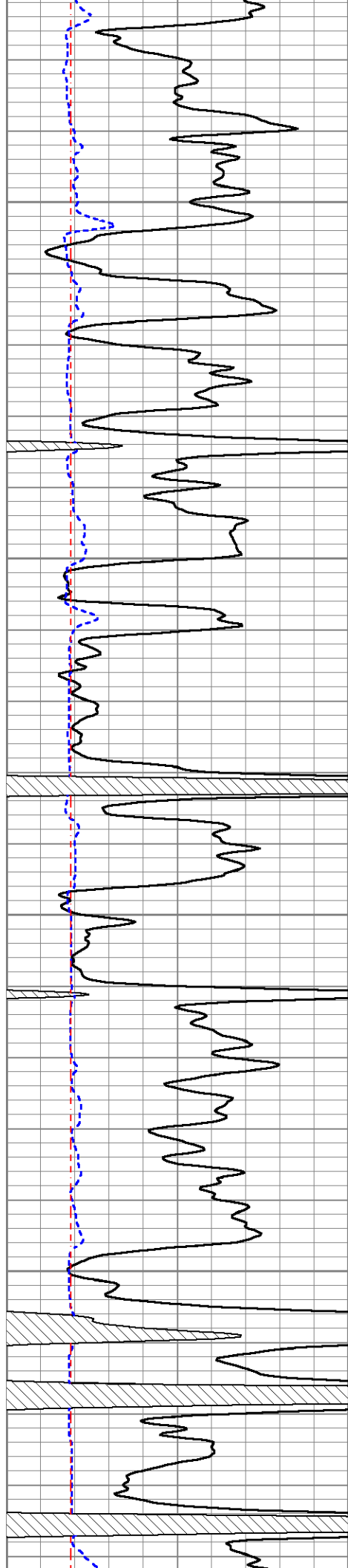
270

195

187

178

170



4000

252

4050

234

4100

217

4150

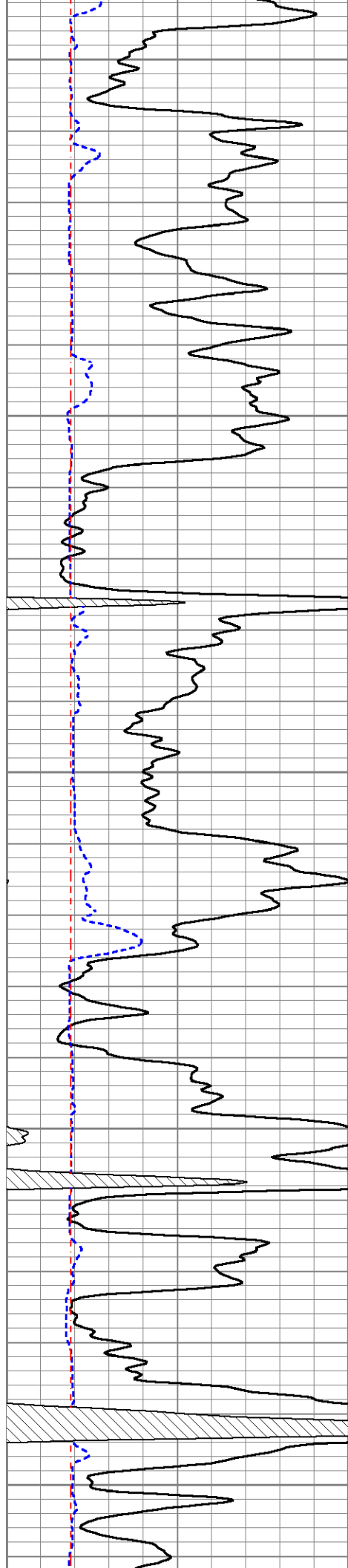
200

160

151

142

133



4200

183

4250

165

4300

148

4350

130

4400

113

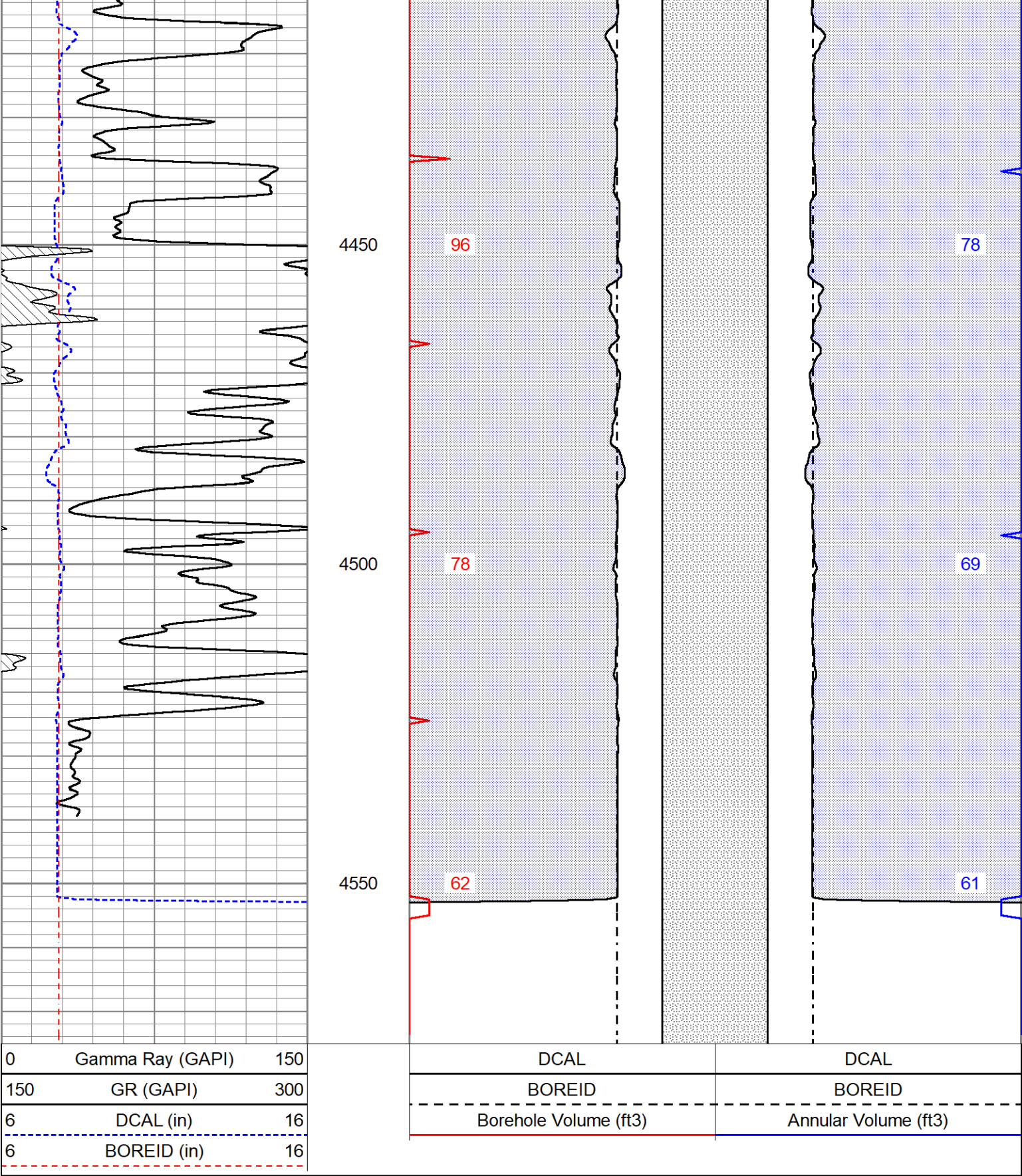
124

115

106

96

87



Database File		amwar_wark 1-21.db
Dataset Pathname		stack/pass3.1
Dataset Creation		Thu Aug 29 22:33:31 2024
Serial-Model:		508A-M&W
Surface Cal Performed:		Thu Aug 29 21:13:42 2024

		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	84.200	428.150		0.000	255.800	mmho/m	0.485	-50.000
Medium	141.000	670.654		0.000	255.800	mmho/m	0.410	-42.000

Compensated Density Calibration Report								
Serial-Model:				303-03-M&W				
Source #:				21170B				
Master Calibration Performed:				Fri Mar 22 13:26:25 2024				

Master Calibration								
		Density				Far Detector	Near Detector	
Magnesium		1.680	g/cc			5466.68	7555.42	cps
Aluminum		2.580	g/cc			1173.67	5050.86	cps
Spine Angle = 75.33				Density/Spine Ratio = 0.566				
		Size				Reading		
Small Ring		4.00	in			1.17		
Large Ring		14.00	in			1.07		

Compensated Neutron Calibration Report								
Serial Number:				210				
Tool Model:				M&W				

CALIBRATION								
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:		105						
Tool Model:		M&W						
Performed:		Sat Oct 21 23:48:19 2023						
Calibrator Value:		500.0		GAPI				
Background Reading:		24.0		cps				
Calibrator Reading:		637.0		cps				
Sensitivity:		0.6000		GAPI/cps				

 MIDWEST WIRELINE		Company	American Warrior, Inc.
		Well	Wark #1-21
		Field	
		County	Thomas
		State	Kansas

