



GAMMA RAY / CALIPER LOG

MIDWEST WIRELINE

Company Castle Resources, Inc.
Well Juenemann A #1
Field Dellvale
County Norton
State Kansas

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Field Dellvale
County Norton State Kansas

Location: API #: 15-137-20771-00-00

Other Services

SEC 29 TWP 3S RGE 24W
1320 FSL & 660 FEL

CNL/CDL
DIL/MEL

Permanent Datum Ground Level Elevation 2360
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

K.B. 2365
D.F.
G.L. 2360

Date 5/14/2024

Run Number One

Type Log BHV

Depth Driller 3715

Depth Logger 3708

Bottom Logged Interval 3679

Top Logged Interval 1600

Type Fluid In Hole Chemical

Salinity, PPM CL 1000

Density 8.7

Level Full

Max. Rec. Temp. F 113

Operating Rig Time 3 Hours

Equipment -- Location 110 HAYS

Recorded By D. Schmidt

Witnessed By Jerry Green

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	220	8.625	23	0	220
Two	7.875	220	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.

Norton,
West to Rd 383,
South to 8 Rd, 1 South,
West and North into

Log Measured From: Kelly Bushing 5 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: Jerry Green
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_juenemann a1.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

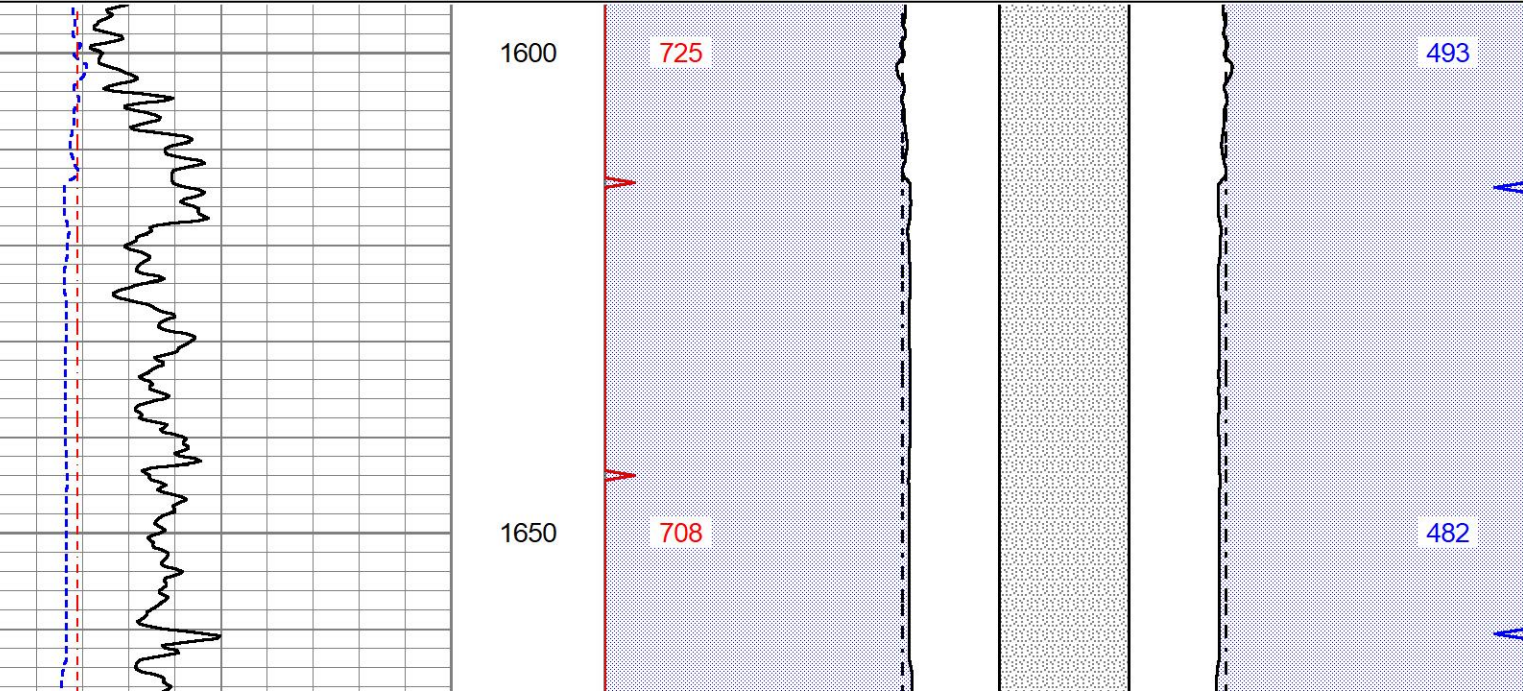
A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	113	4.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		-6	0	289	60		378

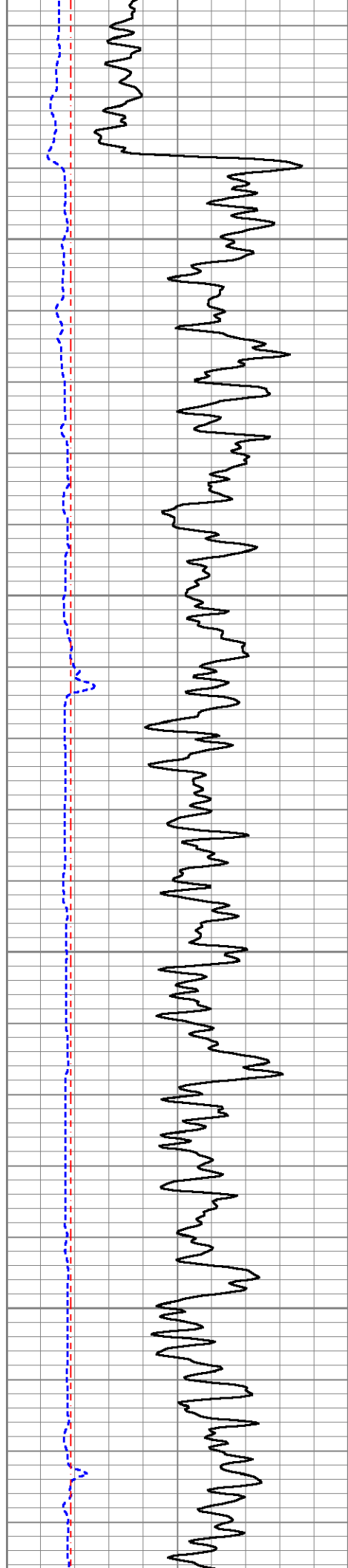
Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

 MIDWEST WIRELINE		DETAIL SECTION	
		MAIN PASS	
Database File	castle_juenemann a1.db		
Dataset Pathname	stkml/pass4.1		
Presentation Format	bhv4half		
Dataset Creation	Tue May 14 10:11:31 2024		
Charted by	Depth in Feet scaled 1:240		
0	Gamma Ray (GAPI)	150	DCAL
150	GR (GAPI)	300	BOREID
6	DCAL (in)	16	CASEOD
6	BOREID (in)	16	Borehole Volume (ft3)
			Annular Volume (ft3)





1700

692

1750

676

1800

660

1850

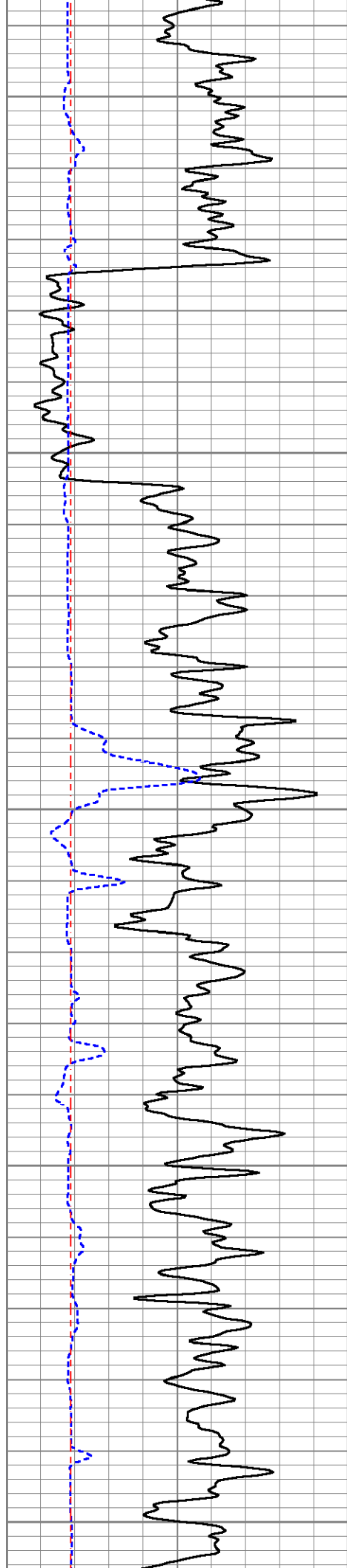
643

472

461

450

439



1900

627

1950

610

2000

592

2050

574

2100

557

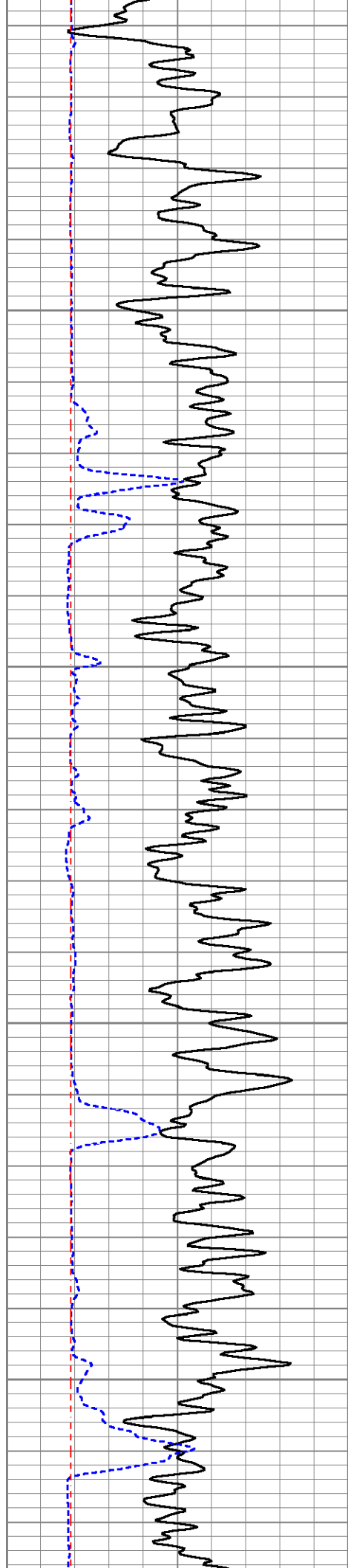
428

417

404

393

381



2150

540

2200

522

2250

504

2300

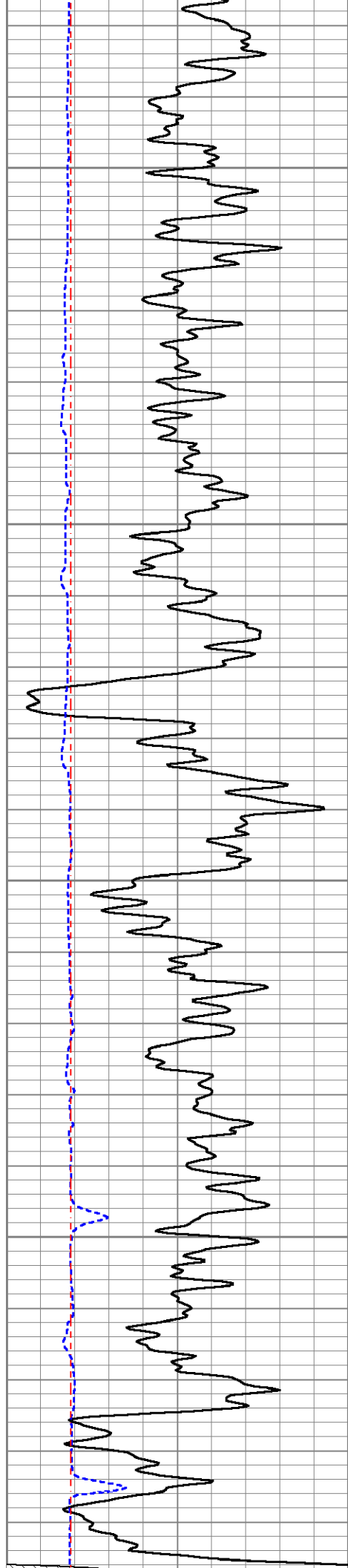
486

369

356

345

332



2350

468

2400

451

2450

435

2500

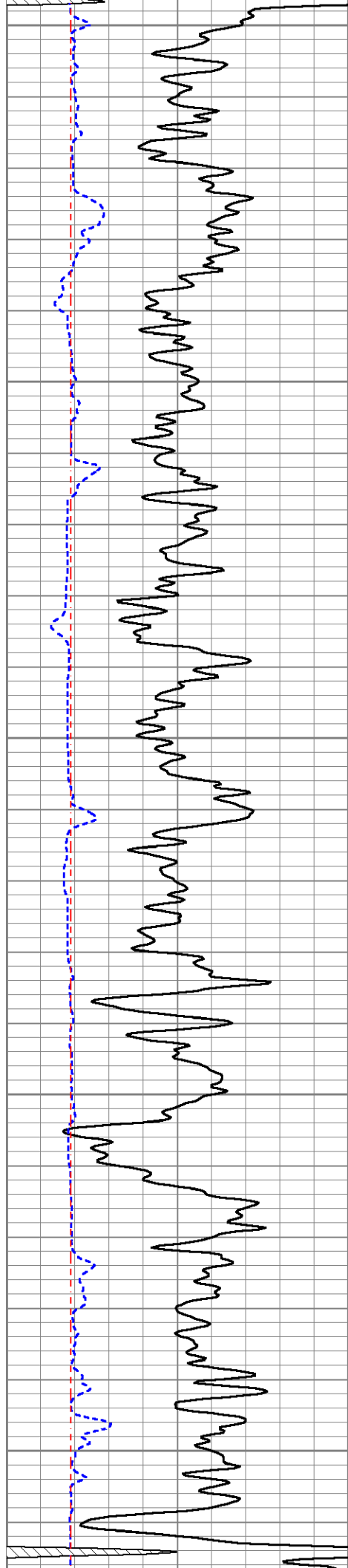
417

319

308

297

285



2550

400

2600

383

2650

366

2700

349

2750

331

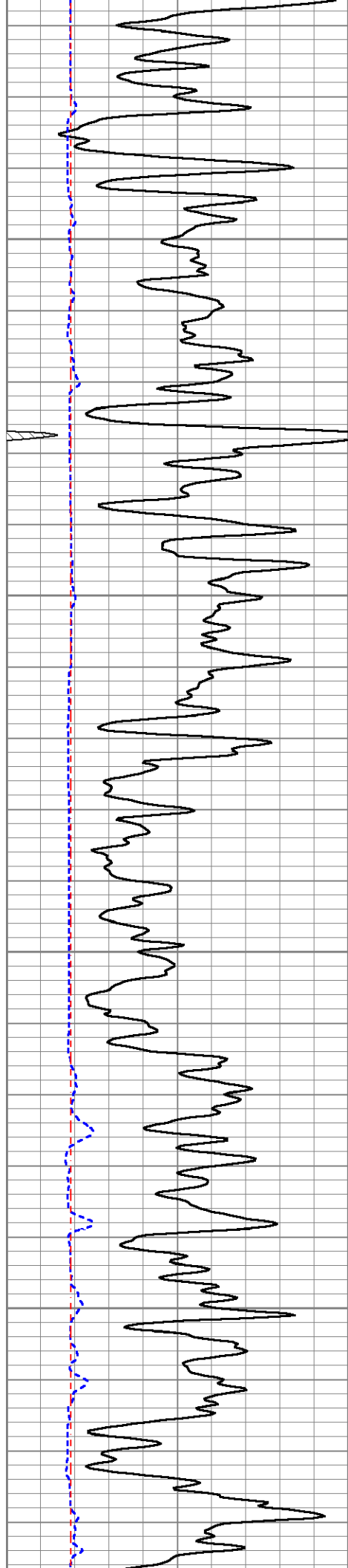
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262

250

239

227



2800

314

2850

297

2900

280

2950

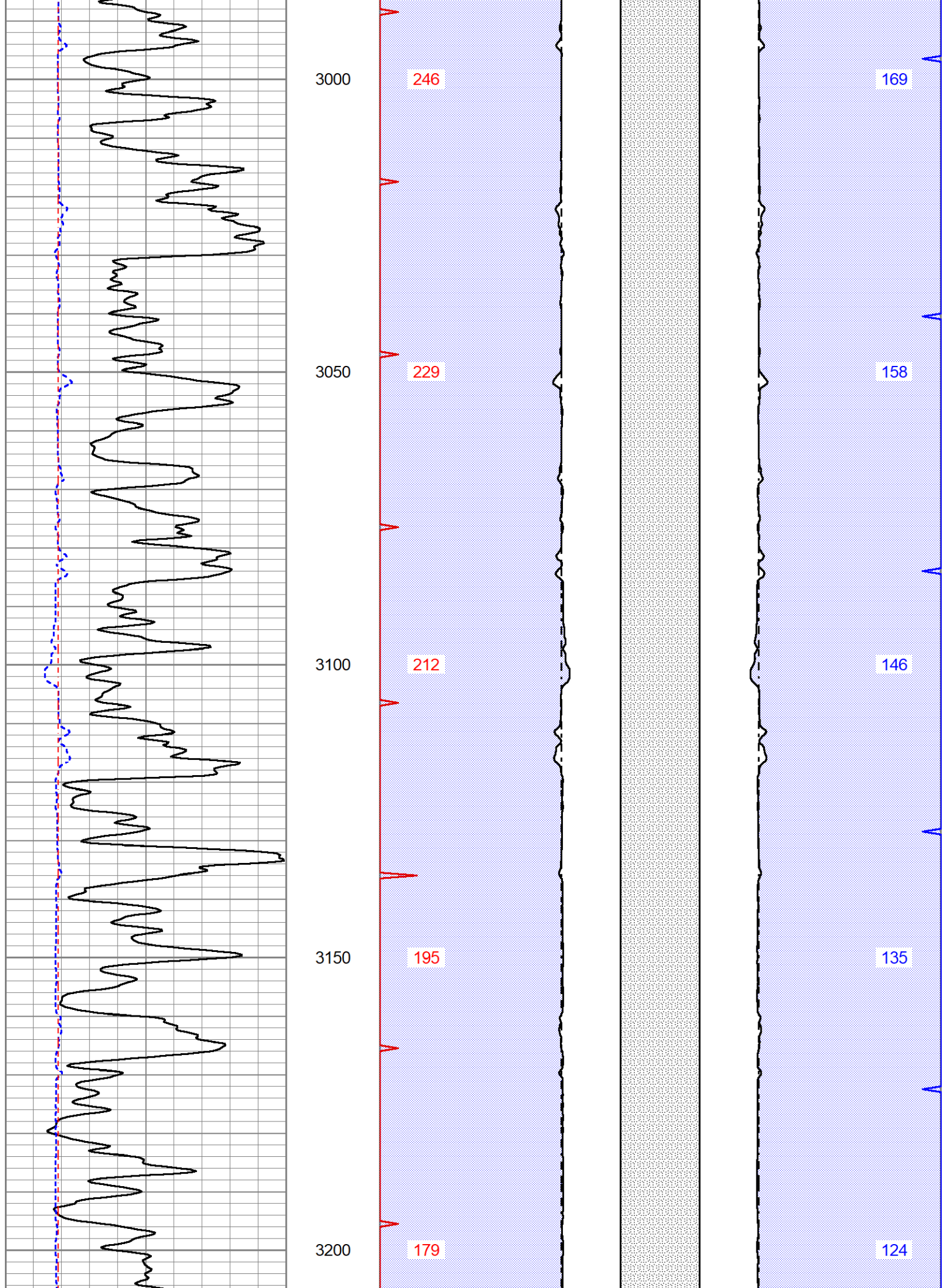
263

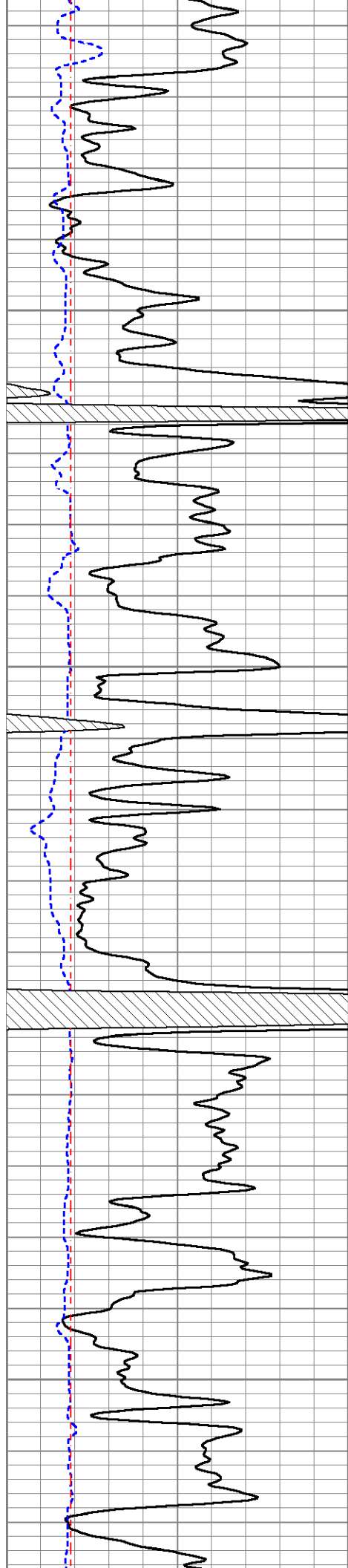
215

204

193

181





3250

162

3300

146

3350

130

3400

114



113

102

92

81

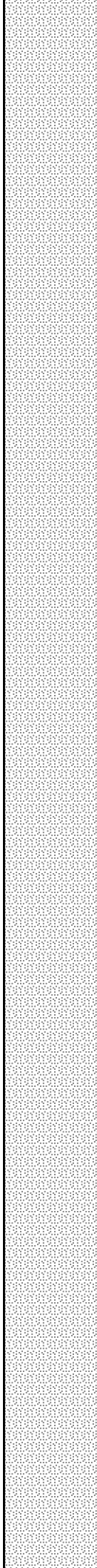


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102

92

81

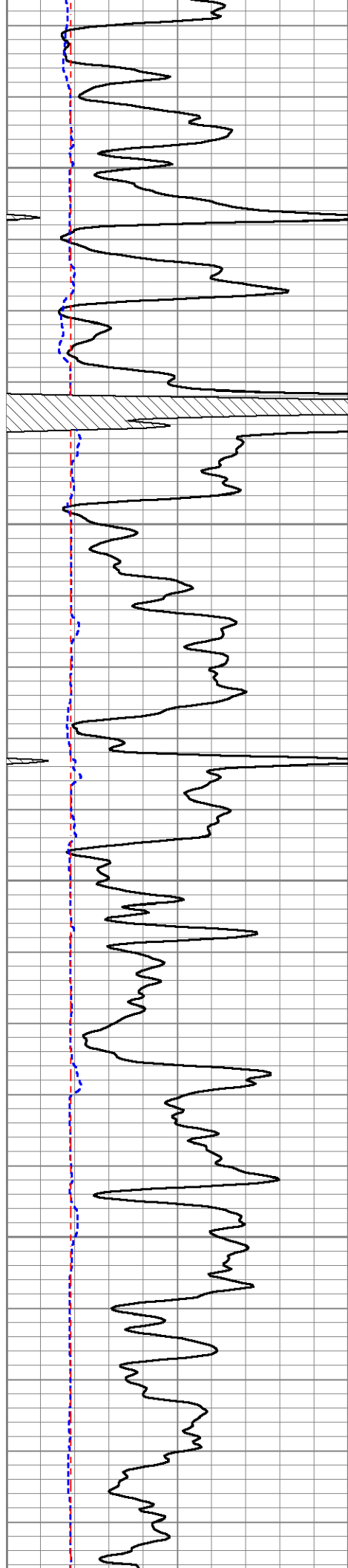


162

146

130

114



3450

97

3500

80

3550

63

3600

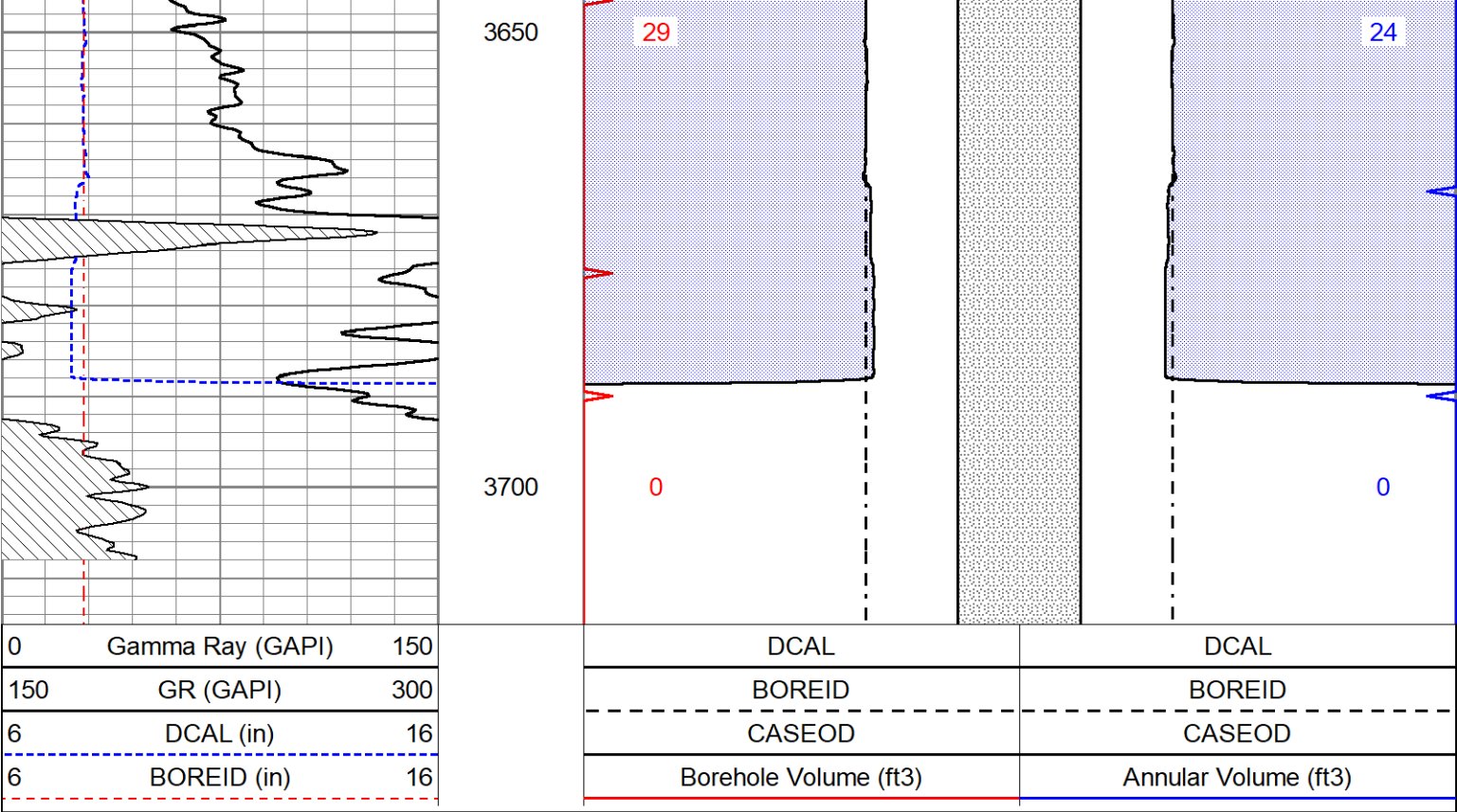
46

70

58

47

35



Calibration Report							
Database File	castle_juenemann a1.db						
Dataset Pathname	stkml/pass4.1						
Dataset Creation	Tue May 14 10:11:31 2024						
Dual Induction Calibration Report							
Serial-Model:				504 HT-M&W			
Surface Cal Performed:				Sun Jan 28 10:54:35 2024			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep	178.615	710.235		0.000	255.800 mmho/m	1.350	-9.000
Medium	161.982	1441.110		0.000	255.800 mmho/m	0.950	-44.000
Microlog Calibration Report							
Serial-Model:				402-PSI STKBL ML			
Performed:				Tue Feb 27 01:52:43 2024			
		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0037	0.0043		0.0000	10.0000 Ohm-m	7500.0000	-0.3000
Inverse	0.1208	0.0013		0.0000	10.0000 Ohm-m	9000.0000	-0.4000
Caliper	1.0046	1.1419		5.5000	20.0000 in	50.0000	-44.6000
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



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