



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Berexco LLC			
Well	Arnold Unit #16-1		
Field	Arroyo Northeast		
County	Stanton		
State	Kansas		
Location: API #: 15-187-21364-00-00			
SW SE SW SE 132 FSL & 1874 FEL SEC 1 TWP 29S RGE 41W			
Permanent Datum	Ground Level	Elevation	3340
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
Other Services		CNL/CDL DIL/BHCS	
Elevation		K.B. 3353 D.F. 3340 G.L. 3340	
Date	7/7/2026		
Run Number	Two		
Depth Driller	5600		
Depth Logger	5601		
Bottom Logged Interval	5600		
Top Log Interval	3400		
Casing Driller	8.625 @ 1732		
Casing Logger	1719		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2000		
Density / Viscosity	8.8 59		
pH / Fluid Loss	9.0 9.5		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.90 @ 80		
Rmt @ Meas. Temp	0.68 @ 80		
Rmc @ Meas. Temp	1.22 @ 80		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.55 @ 132		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	132		
Equipment Number	110		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Macklin Armstrong		

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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.

Johnson City,
South on Hwy 27 to Rd 14, 2/3 East,
North into

Log Measured From: Kelly Bushing

13 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: Macklin Armstrong
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\berexco_arnold unit 16-1.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 132	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m 0	SPSHIFT mV 160	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 5601		



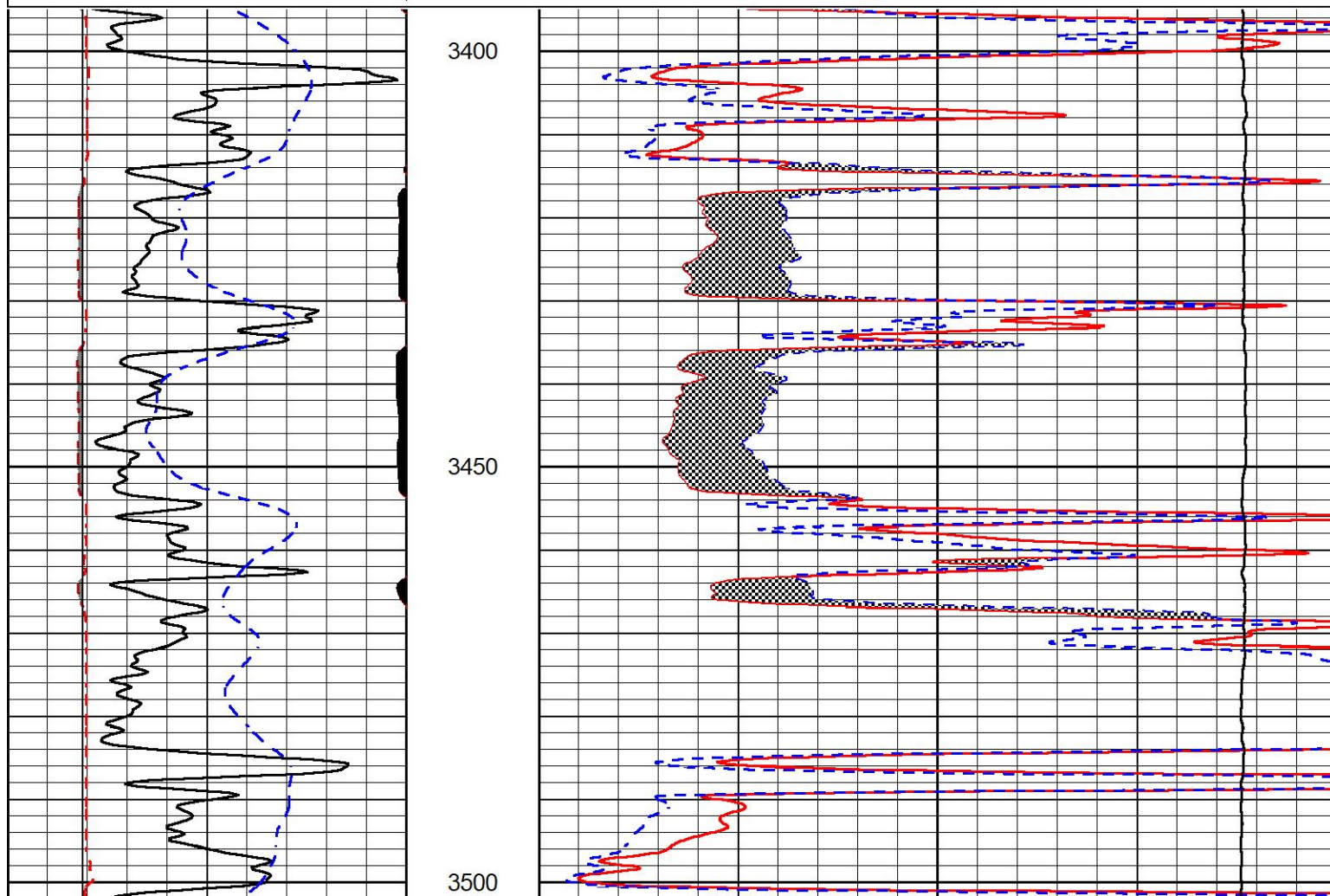
DETAIL SECTION

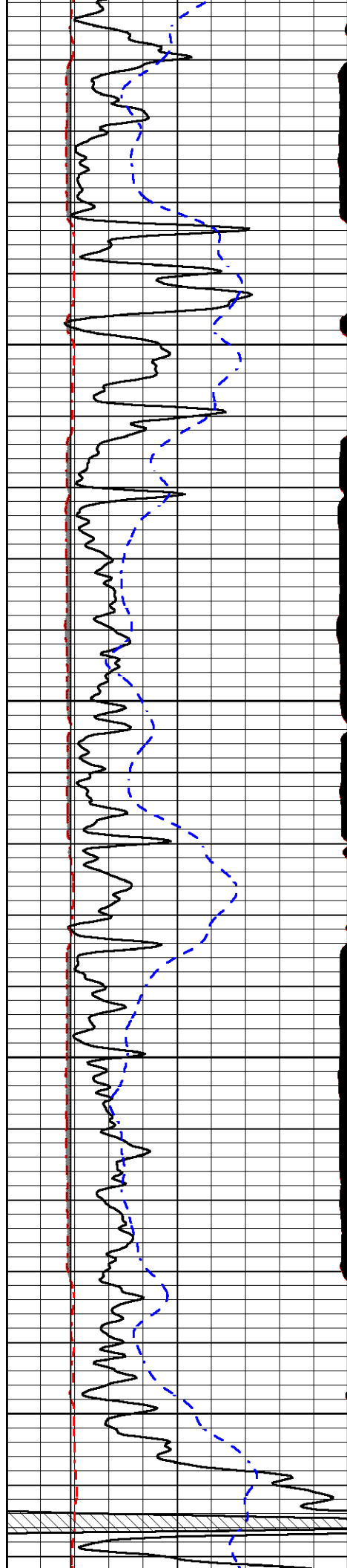
MAIN PASS

Database File berexco_arnold unit 16-1.db
Dataset Pathname stack/pass3.1
Presentation Format _micro
Dataset Creation Wed Jul 08 01:57:30 2026
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mccl (in)	7.875
-200	sp (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



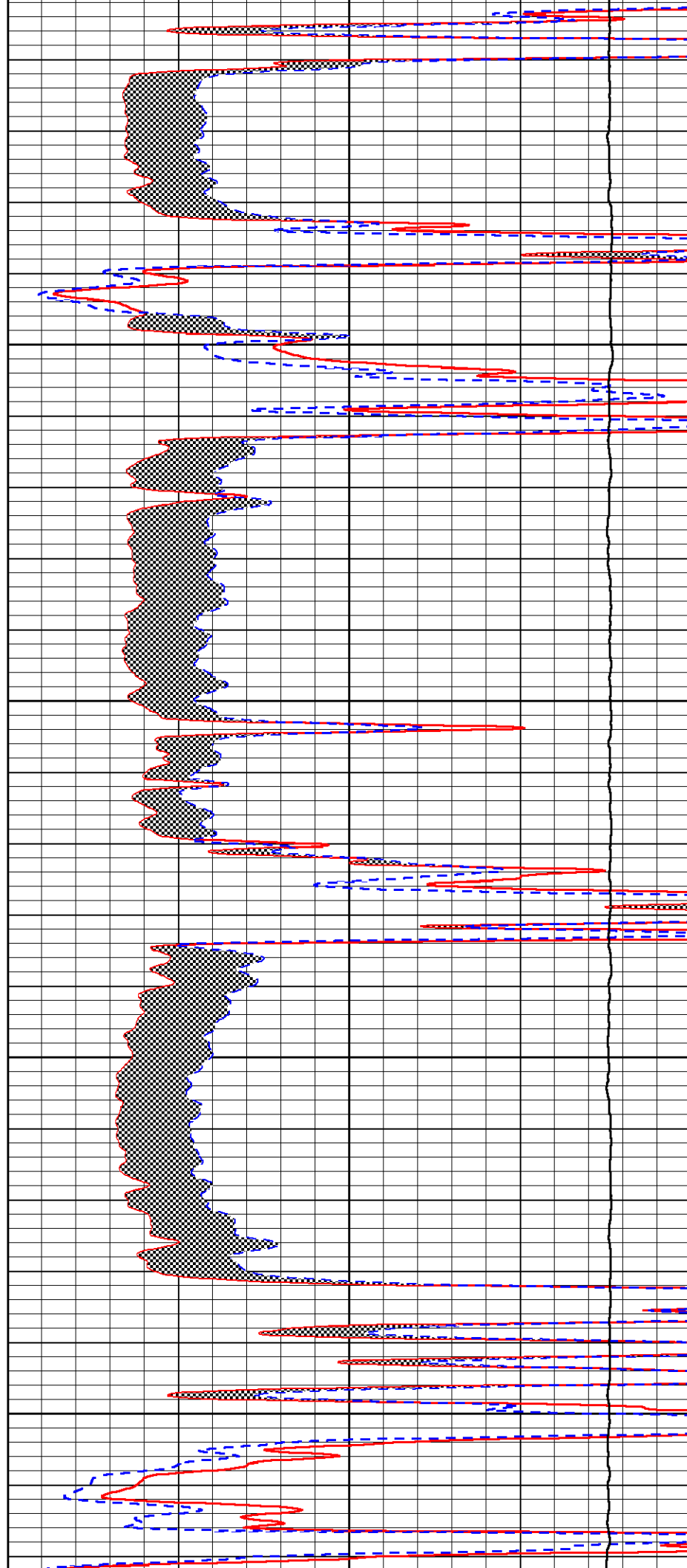


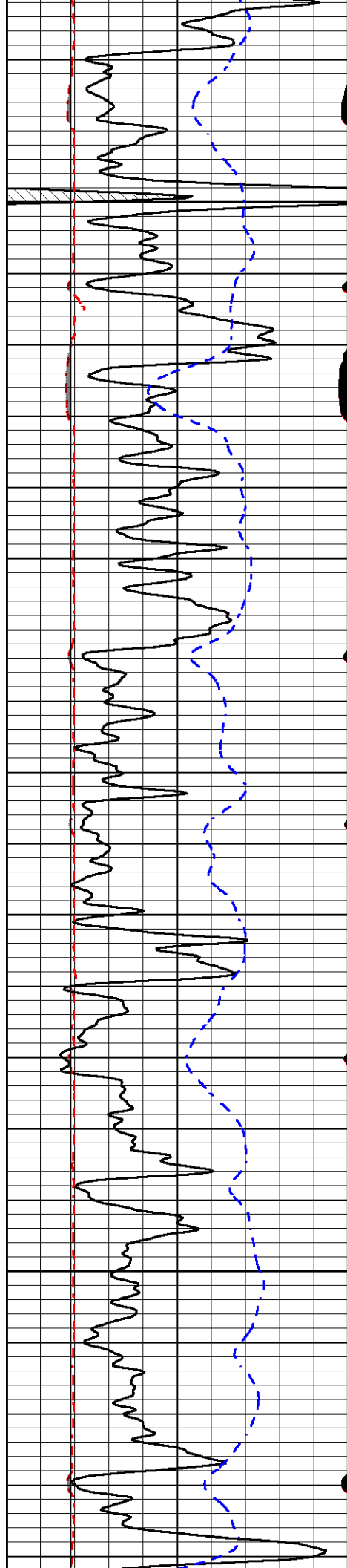
3550

3600

3650

3700



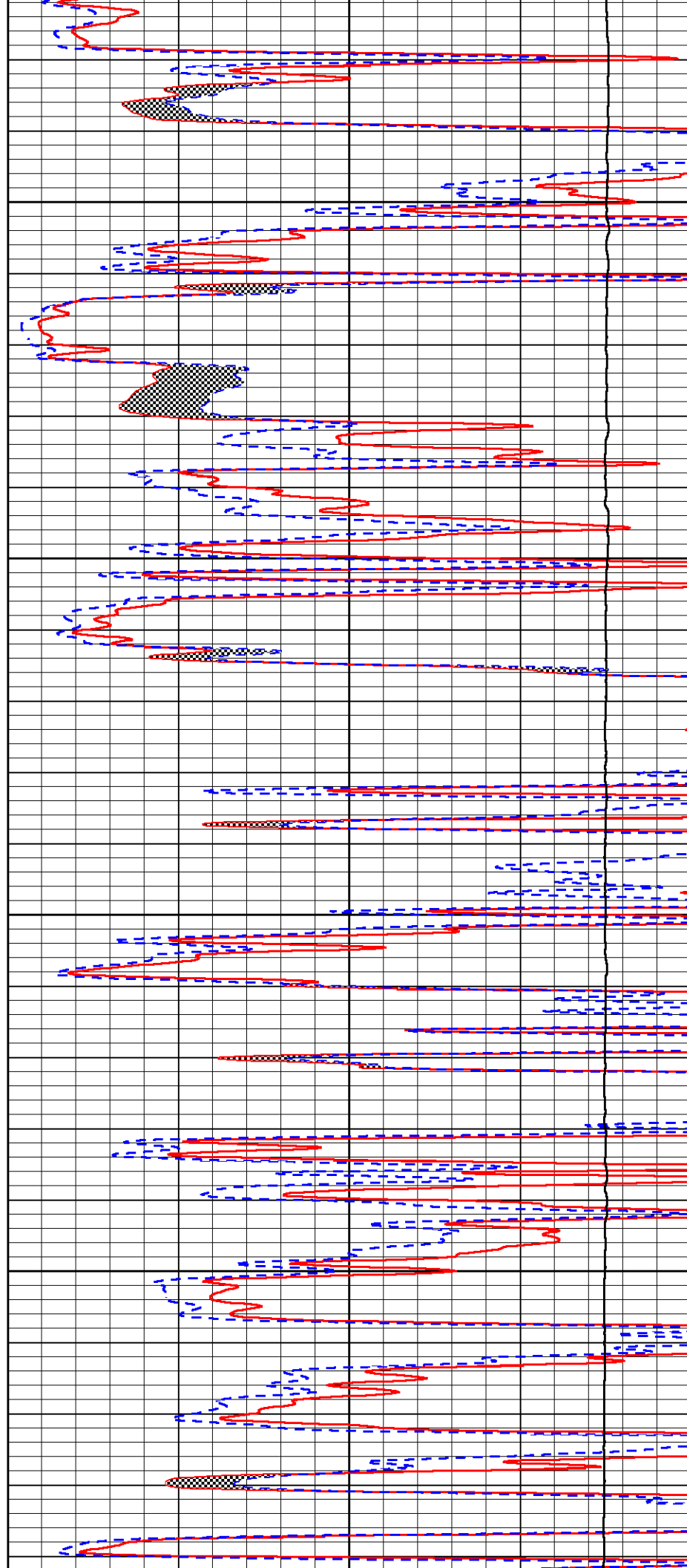


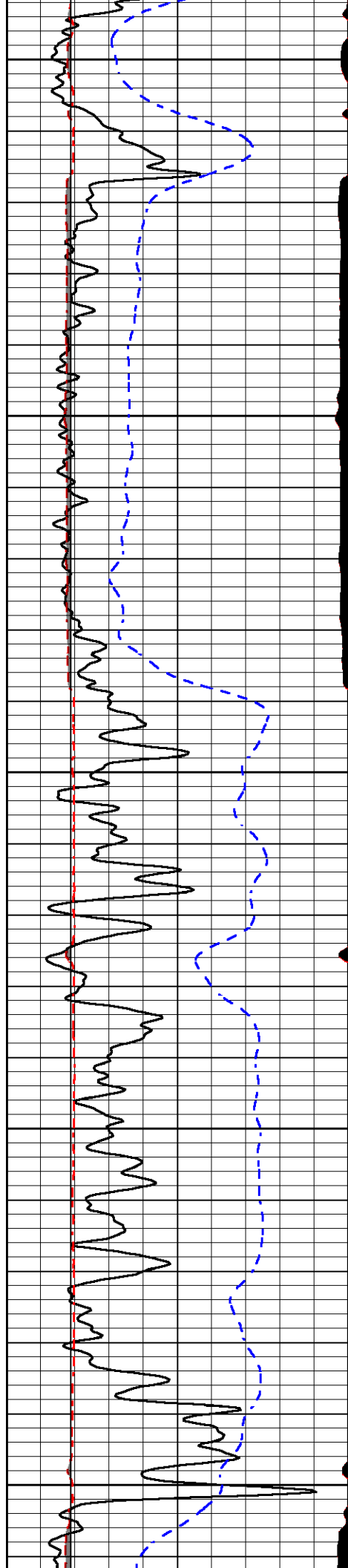
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3800

3850

3900





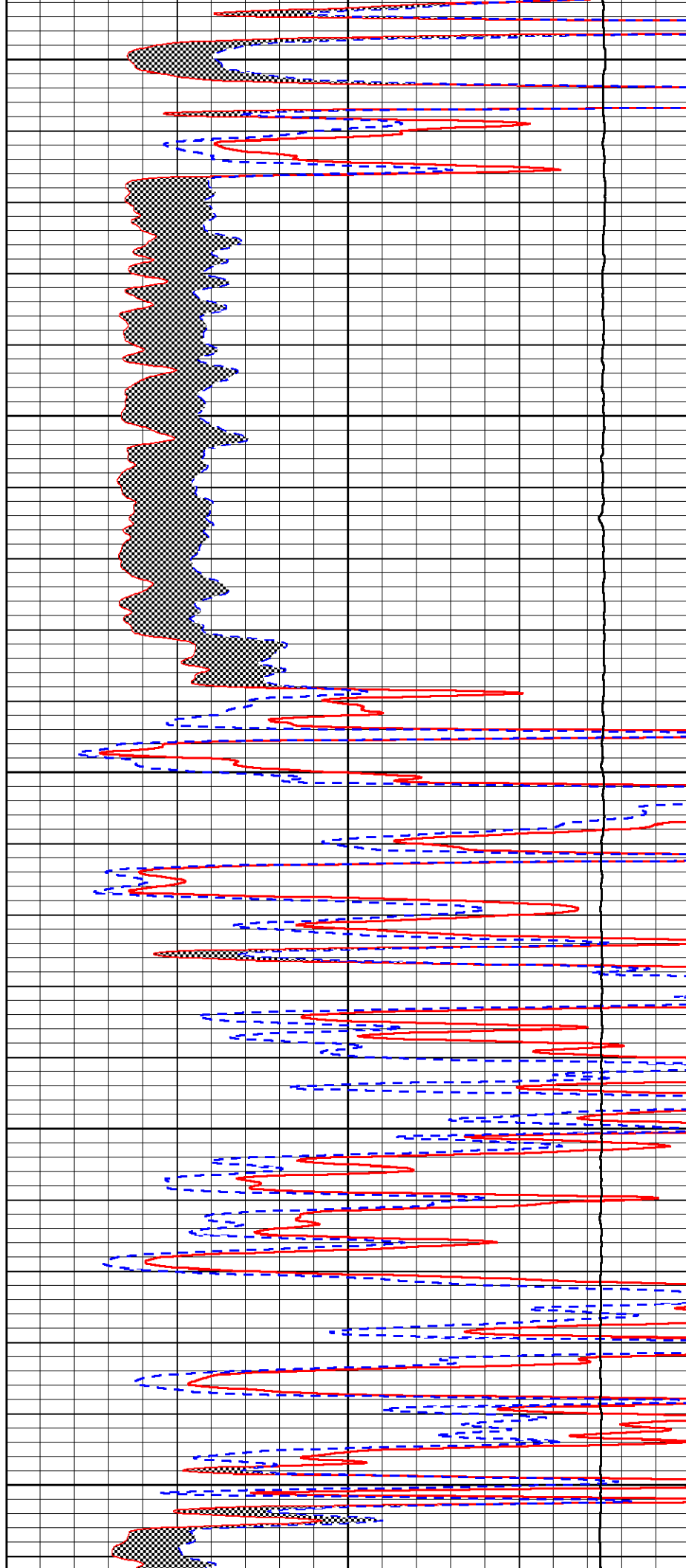
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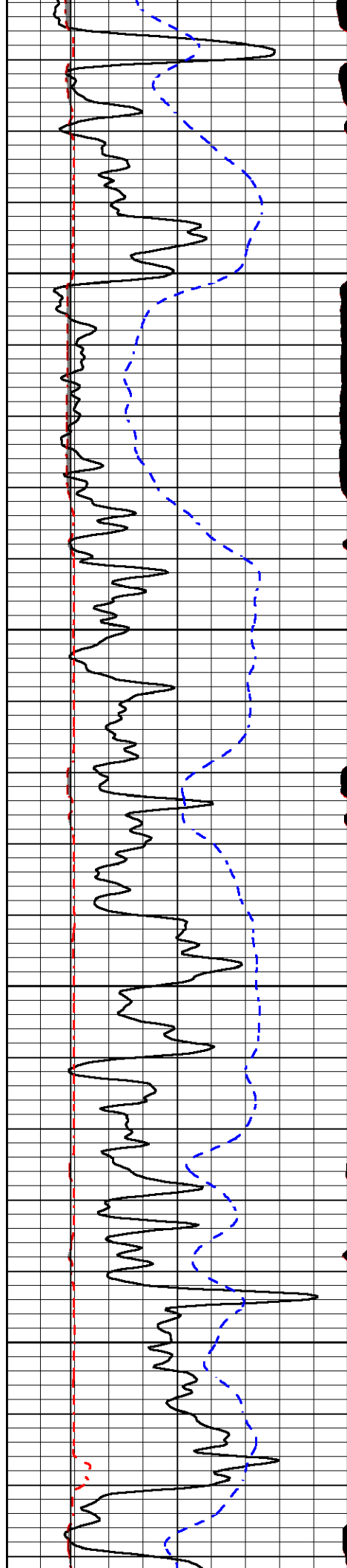
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4050

4100

4150



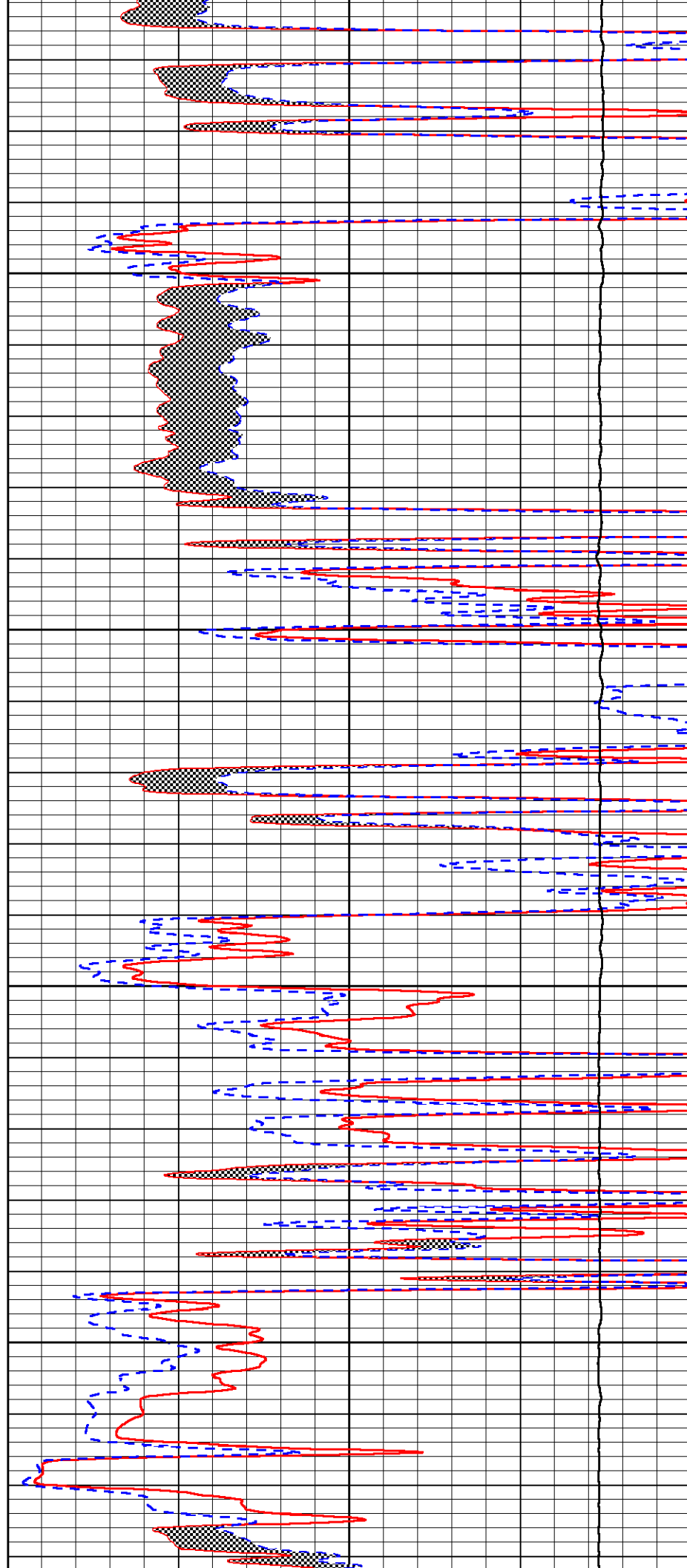


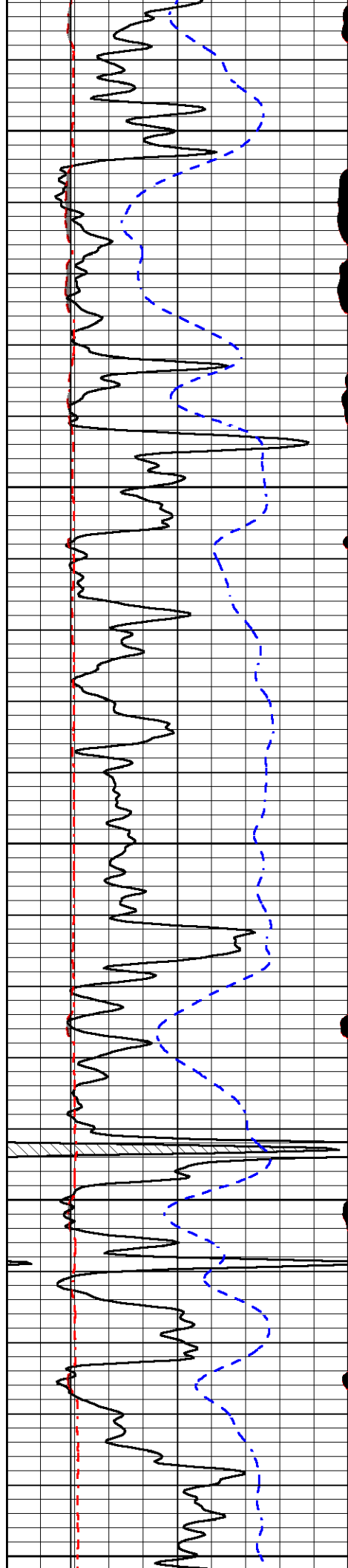
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4250

4300

4350





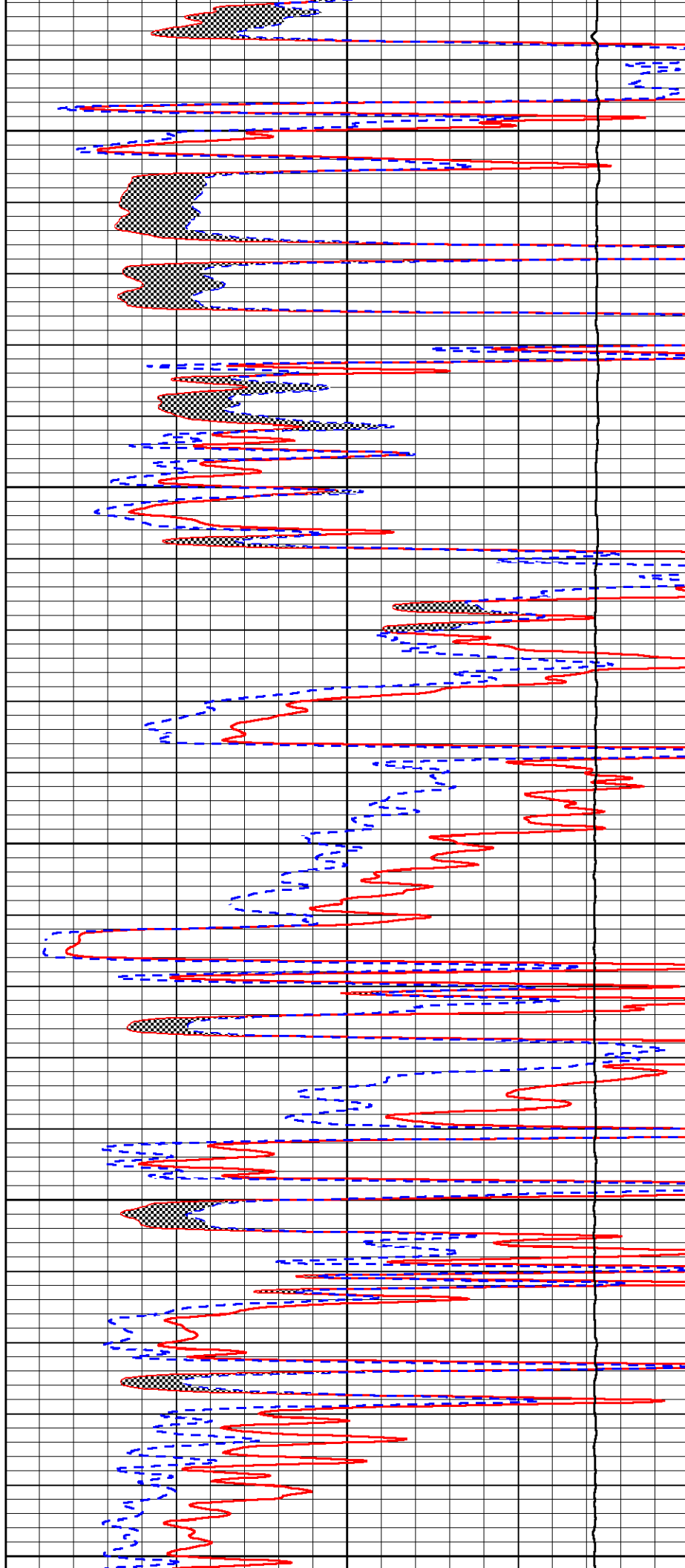
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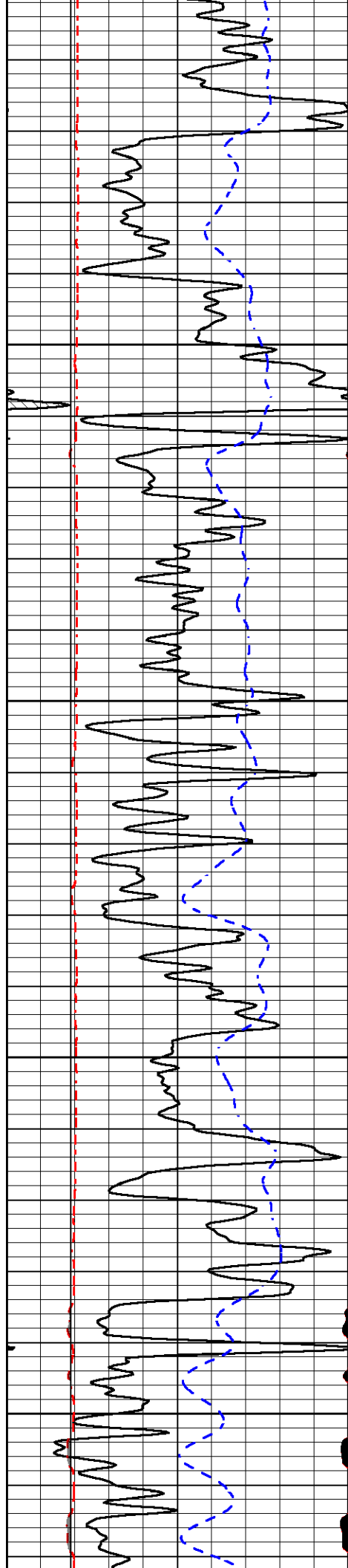
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4500

4550

4600



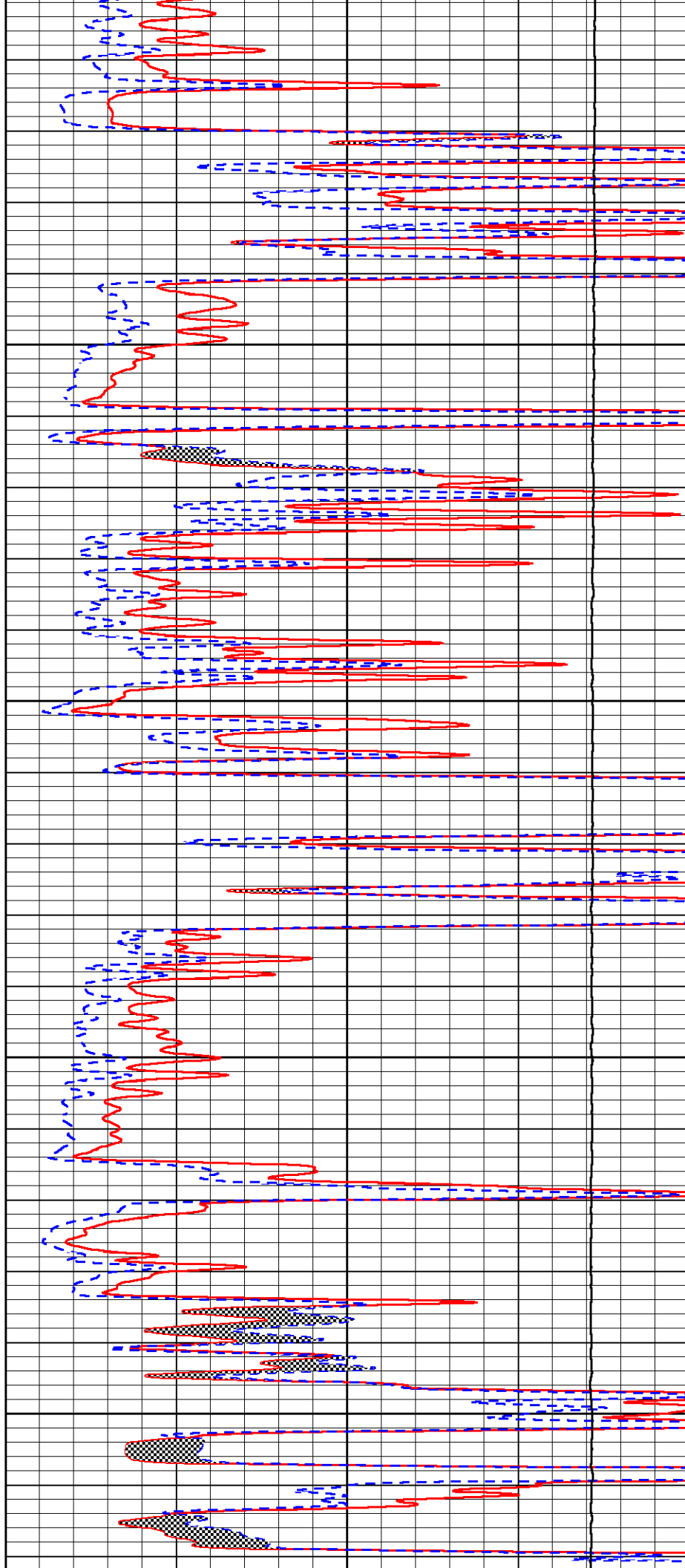


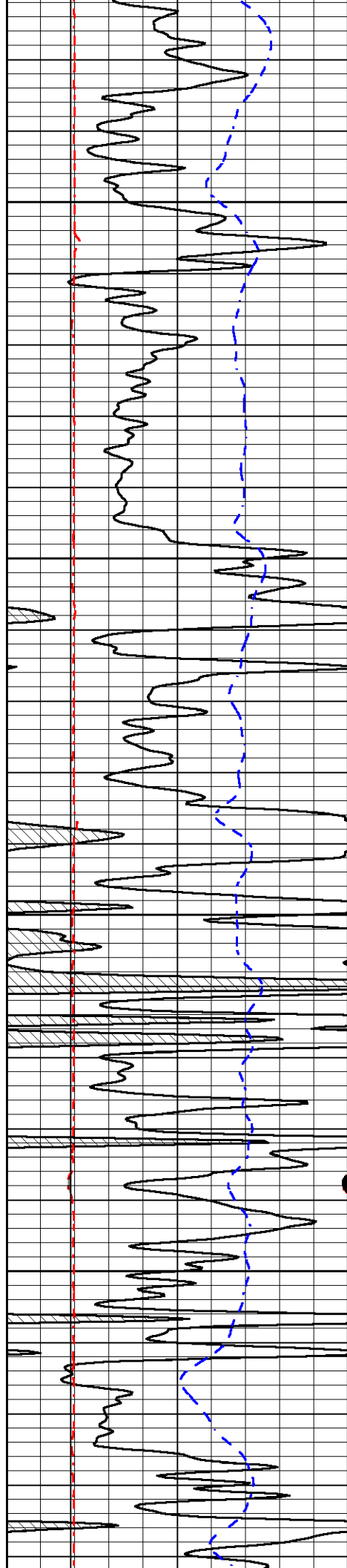
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4700

4750

4800



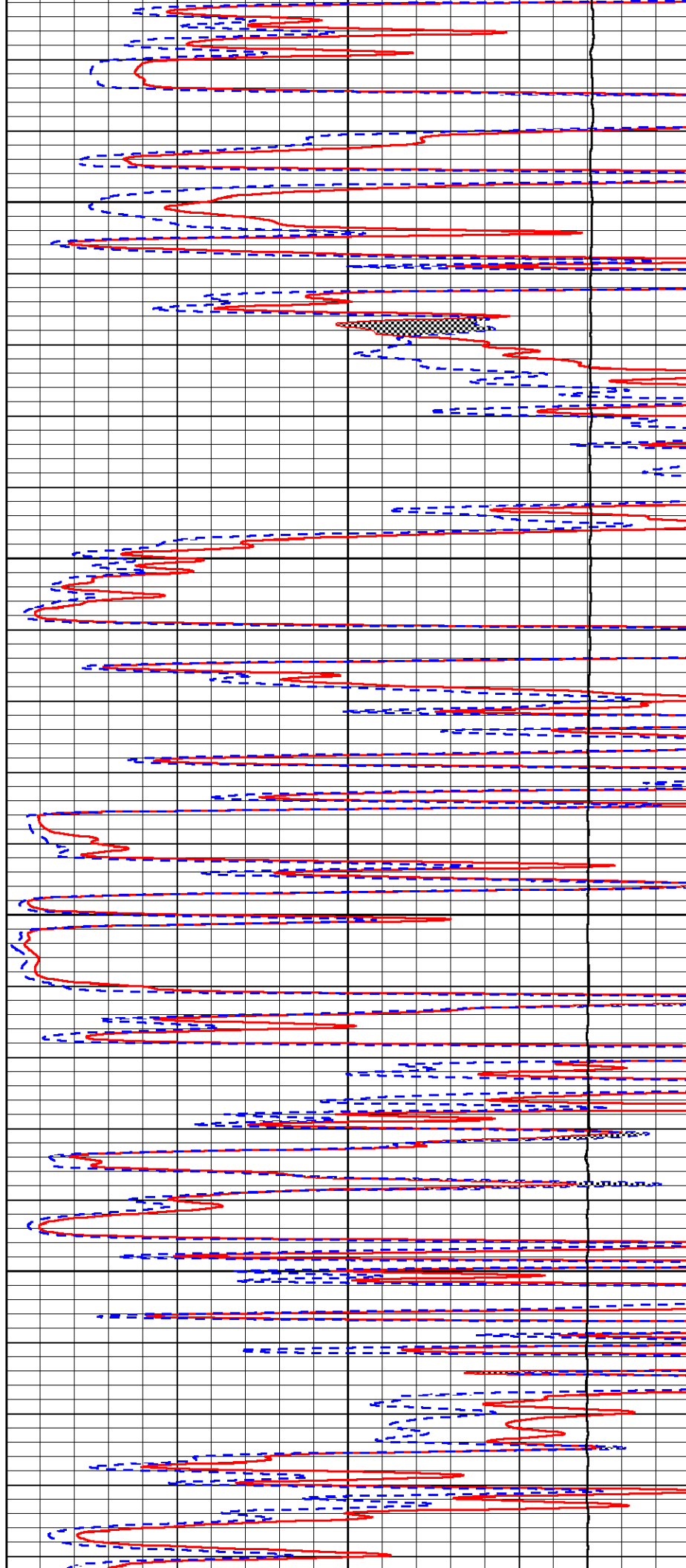


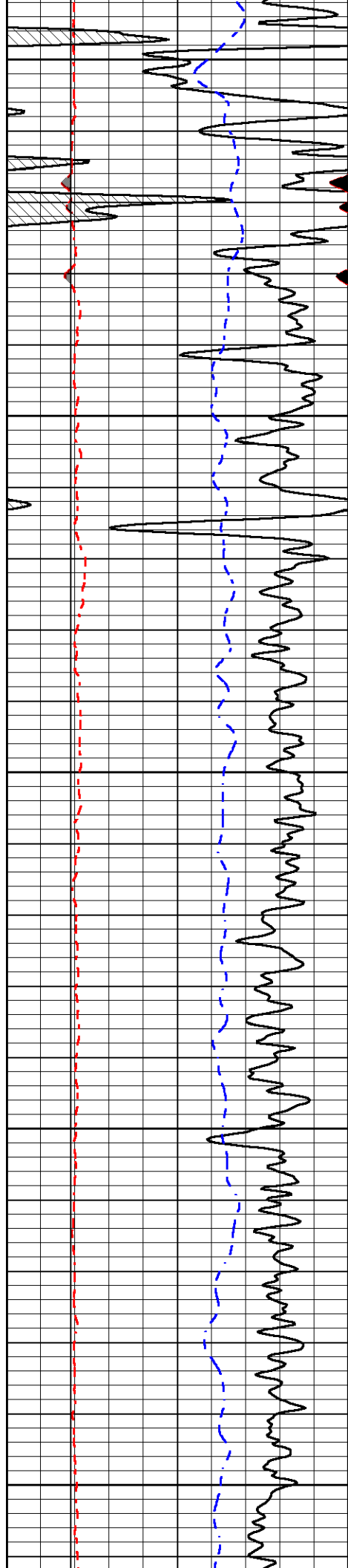
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4900

4950

5000





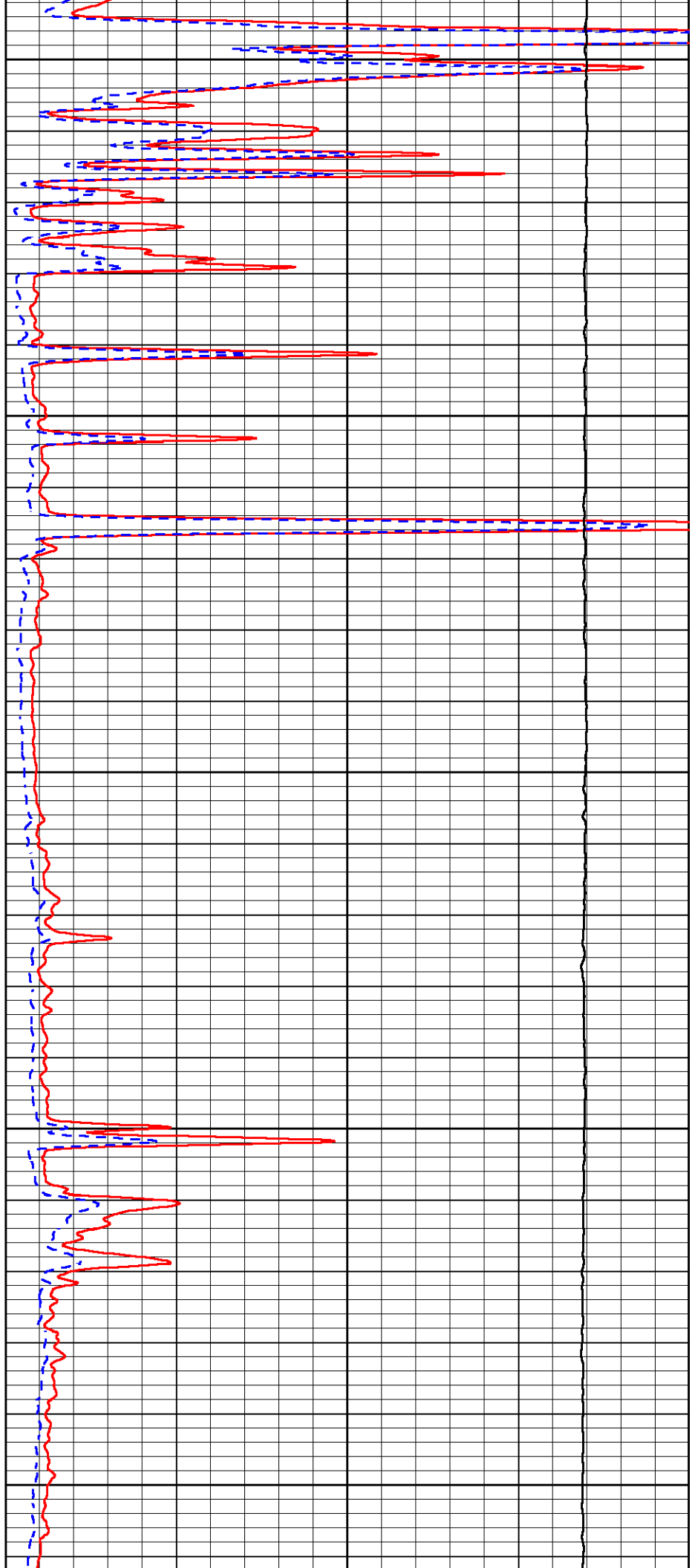
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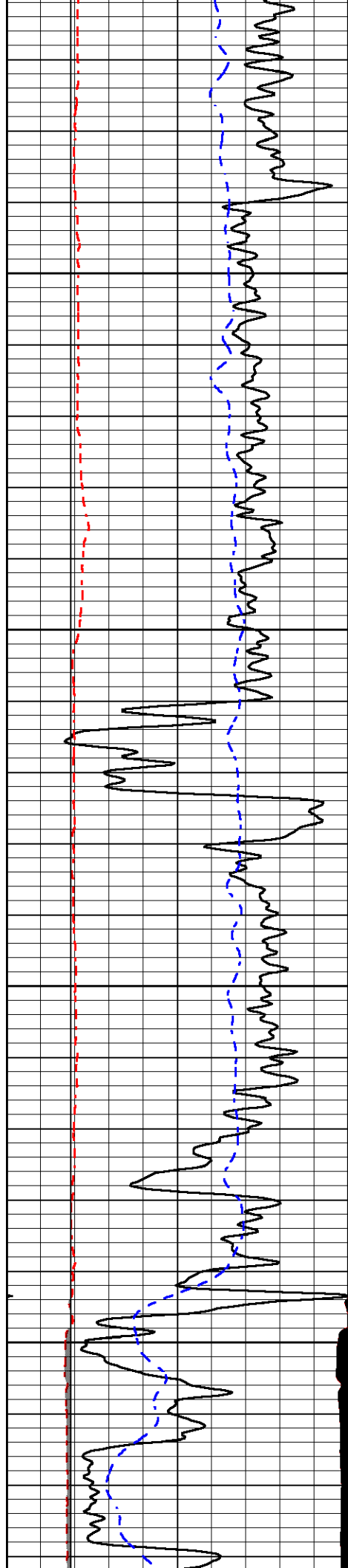
5100

5150

5200

5250



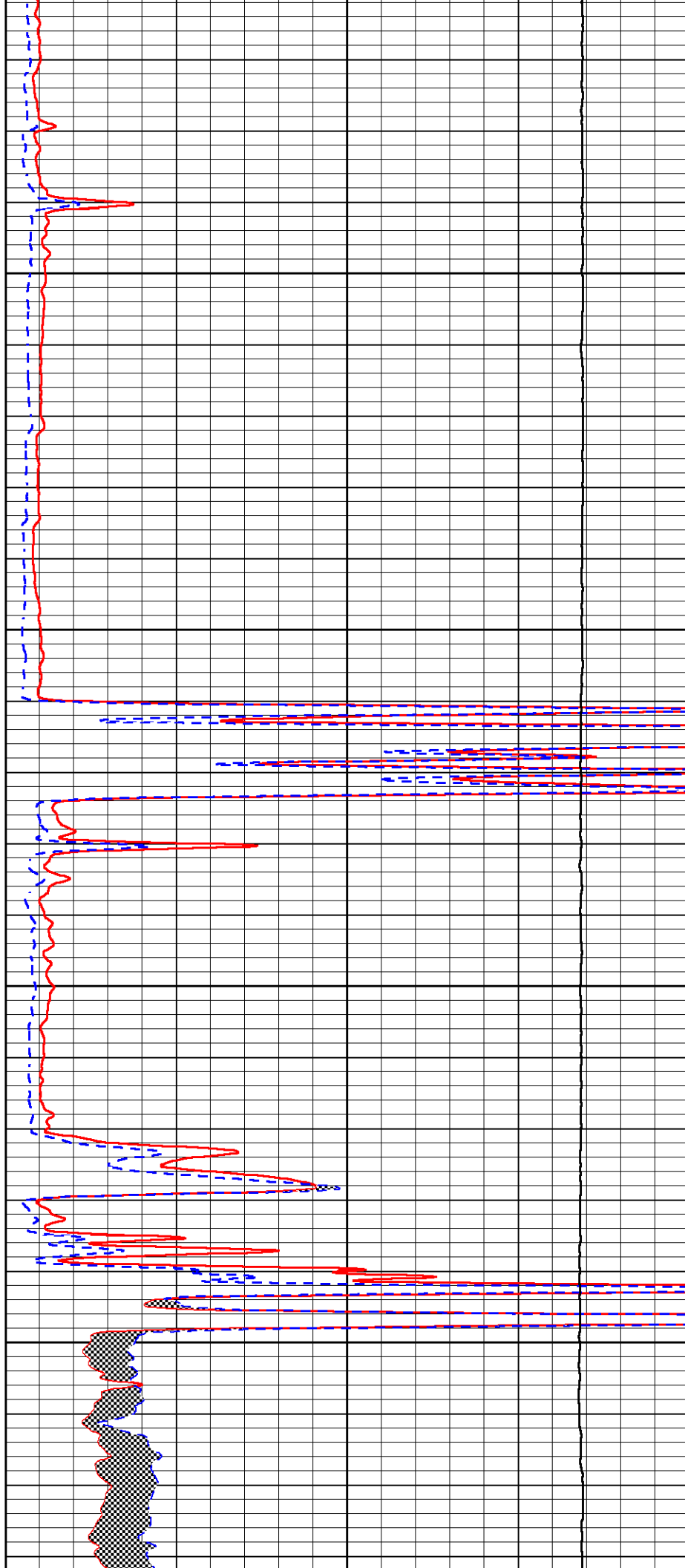


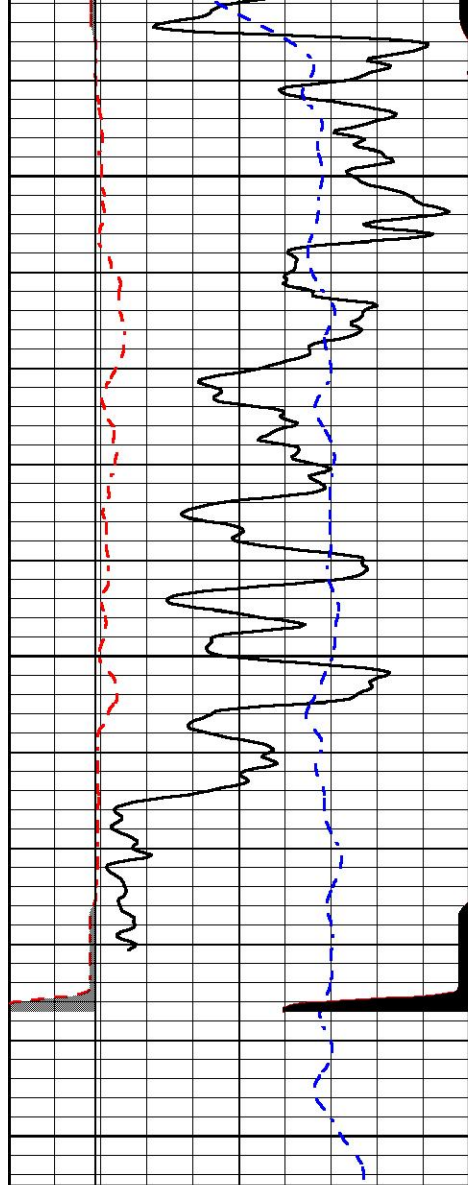
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5400

5450



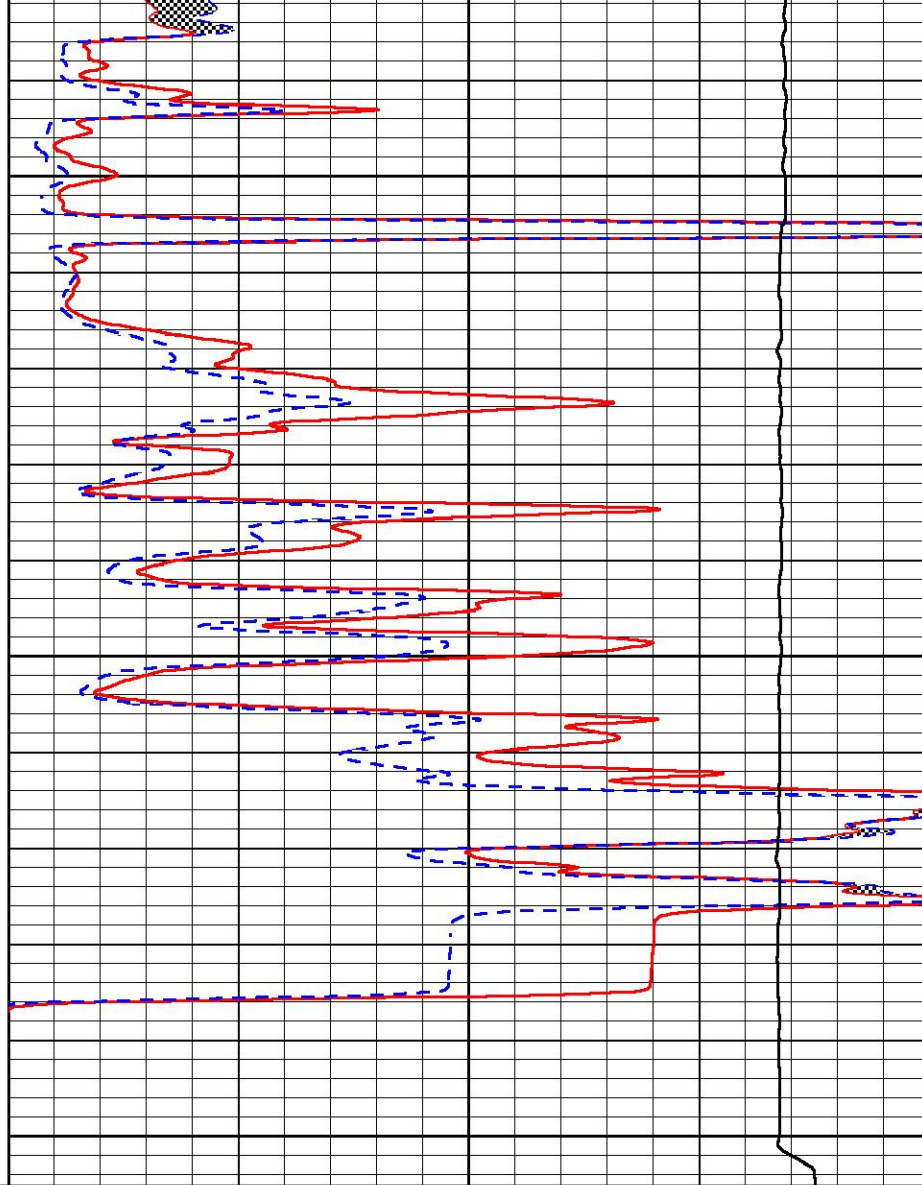


0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

5500

5550

5600



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



MIDWEST WIRELINE

REPEAT SECTION

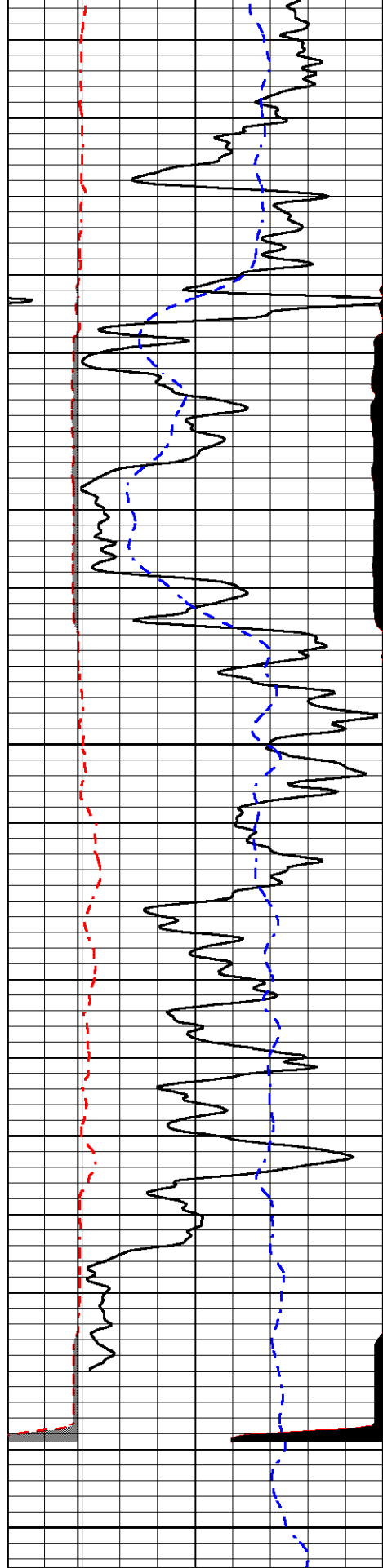
REPEAT PASS

Database File berexco_arnold unit 16-1.db
 Dataset Pathname stack/pass2.1
 Presentation Format _micro
 Dataset Creation Wed Jul 08 01:14:30 2026
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

5400



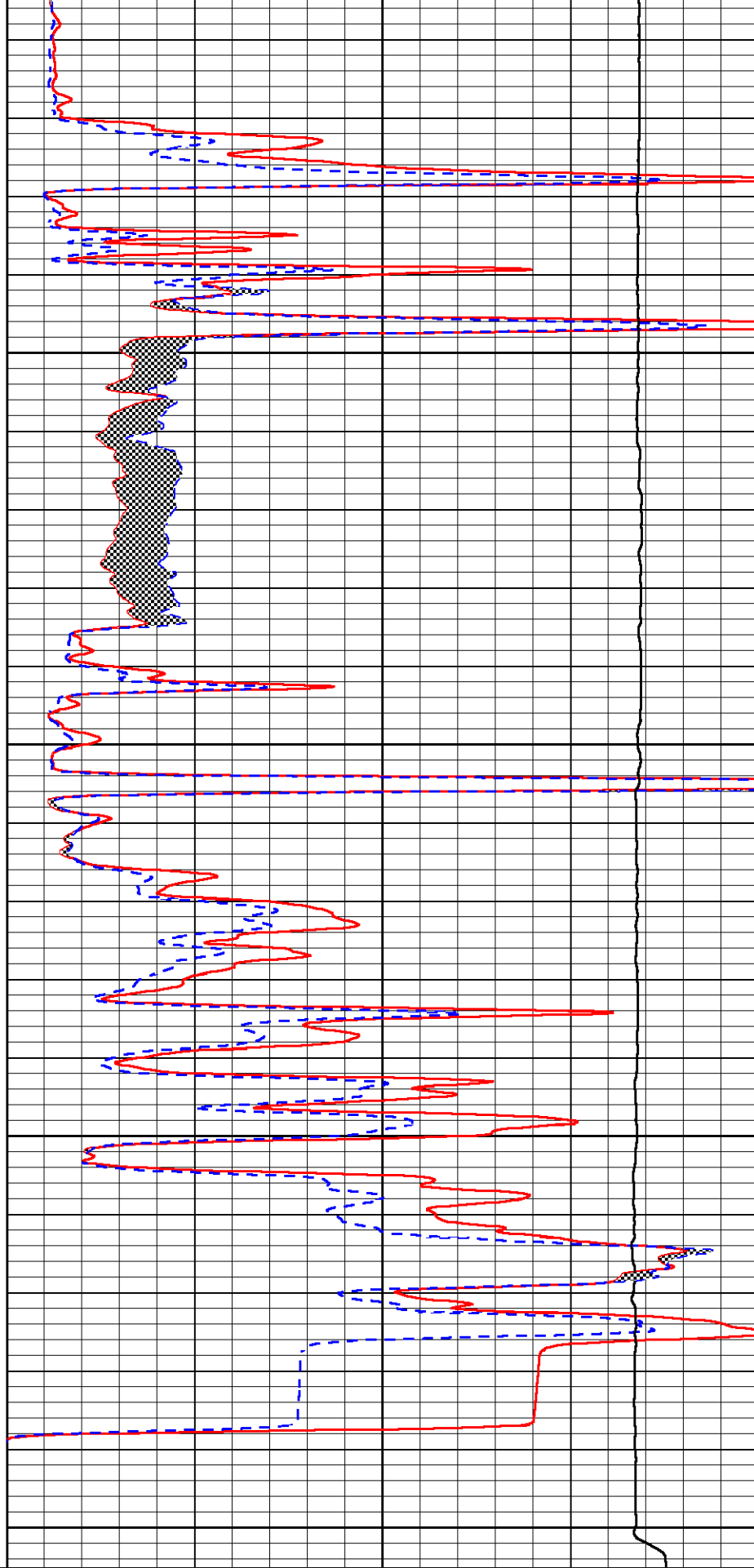
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

5450

5500

5550

5600



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

Database File		berexco_arnold unit 16-1.db	Calibration Report
Dataset Pathname		stack/pass3.1	
Dataset Creation		Wed Jul 08 01:57:30 2026	

Database File		berexco_arnold unit 16-1.db	Calibration Report
Dataset Pathname		stack/pass3.1	
Dataset Creation		Wed Jul 08 01:57:30 2026	

Dual Induction Calibration Report

Serial-Model:	506-M&W
Surface Cal Performed:	Wed Jun 24 17:13:14 2026

		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.590	-39.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.490	-23.000

LITHODENSITY Calibration Report

Serial Number:	701-03
Tool Model:	STEP LITHO Short
Performed:	Tue Sep 23 11:08:22 2025

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	56	59	219	268	24	71	46	1	cps
LS:	78	88	333	431	50	131	87	4	cps
Aluminum:									
SS:	1019	1215	2861	2617	50	77	49	3	cps
LS:	1263	2145	3830	1712	72	136	59	4	cps
Magnesium:									
SS:	1699	1990	4685	3819	56	78	46	4	cps
LS:	4984	8437	15068	6103	123	112	86	24	cps
Aluminum+Iron:									
SS:	655	863	2400	2274	45	78	49	3	cps
LS:	711	1512	3267	1588	59	132	86	6	cps

	Density			PE		
	Actual	Calibrated		Actual	Calibrated	Quality
Background:						
SS:						0.213
LS:						0.202
Aluminum:						
SS:	2.6000	2.6000	g/cc			0.219
LS:	2.6000	2.6000	g/cc			0.395
Magnesium:						
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.255
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.131
Aluminum+Iron:						
SS:					6.1800	0.229
LS:					6.1800	0.212

Caliper:	Reference:	Reading:
Small Ring:	6.0 in	0.2
Large Ring:	17.5 in	0.8
Gain:	18.284	
Offset:	0.150	

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: Tue Aug 26 12:59:12 2025

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 637.0 cps

Sensitivity: 0.6000 GAPI/cps



Company Berexco LLC
Well Arnold Unit #16-1
Field Arroyo Northeast
County Stanton
State Kansas