



MIDWEST WIRELINE

# MICRORESISTIVITY

Company Castle Resources Inc.  
 Well Mollhagen #2  
 Field Geneseo-Edwards  
 County Ellsworth  
 State Kansas

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 Well Mollhagen #2  
 Field Geneseo-Edwards  
 County Ellsworth State Kansas

Location: API #: 15-053-21397-0-00  
 NE-SE-NW/NW  
 950 FNL & 4260 FEL  
 SEC 9 TWP 17S RGE 8W  
 Permanent Datum Ground Level Elevation  
 Log Measured From Kelly Bushing  
 Drilling Measured From Kelly Bushing  
 Other Services  
 CNL/CDL  
 DIL  
 K.B.  
 D.F.  
 G.L.  
 Elevation

Date	7/11/2024
Run Number	One
Depth Driller	3330
Depth Logger	3332
Bottom Logged Interval	3331
Top Log Interval	2200
Casing Driller	8:625 @ 222
Casing Logger	222
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	8000
Density / Viscosity	9.2 52
pH / Fluid Loss	9.5 10.0
Source of Sample	Flowline
Rm @ Meas. Temp	0.45 @ 100
Rmt @ Meas. Temp	0.34 @ 100
Rmc @ Meas. Temp	0.61 @ 100
Source of Rmf / Rmc	Charts
Rm @ BHT	0.41 @ 109
Operating Rig Time	3 Hours
Max Rec. Temp. F	109
Equipment Number	P-24
Location	Hays
Recorded By	Justin Trout
Witnessed By	Jerry Green

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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.

Ellsworth, Ks  
 South on Hwy 14 to T Rd  
 1/2 West South into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

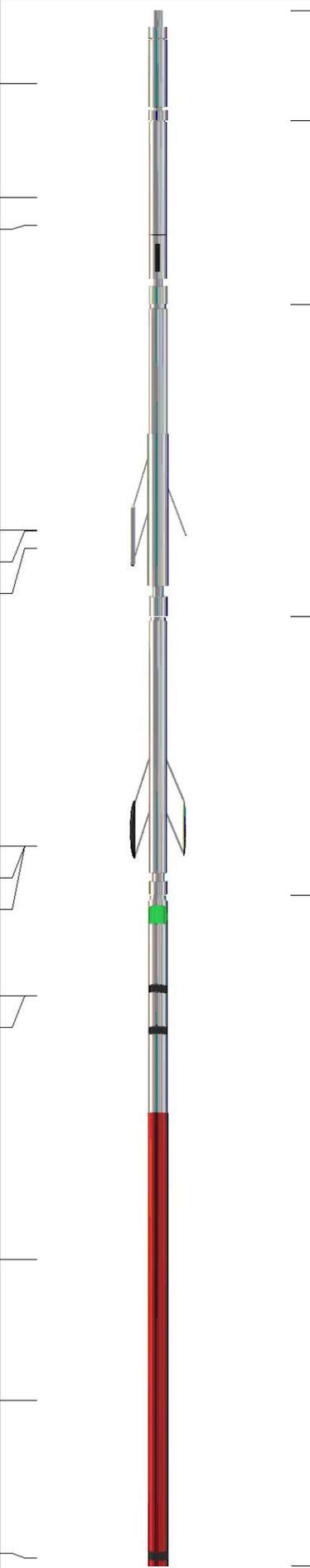
THANK YOU FOR USING MIDWEST WIRELINE LLC  
 785-625-3858

### Your Midwest Wireline Crew

Engineer: Justin Trout  
 Operator:  
 Operator:  
 Operator:

### This Log Record Was Witnessed By

Primary Witness: Jerry Green  
 Secondary Witness:  
 Secondary Witness:  
 Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (105)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (201-M&W)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-24)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (401)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (507)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: castle\_mollhagen #2.db: field/well/STKML/pass3.1  
 Total length: 42.33 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in

Calibration Report

Database File castle\_mollhagen #2.db  
 Dataset Pathname STKML/pass3.1  
 Dataset Creation Fri Jul 12 16:57:27 2024

Dual Induction Calibration Report

Serial-Model: 507-M&W  
 Surface Cal Performed:

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	68.570	638.100	0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191	0.000	255.800	mmho/m	0.450	-79.000

Microlog Calibration Report

Serial-Model: 401-PSIML  
 Performed: Mon Sep 25 22:02:56 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	23500.0000	-2.2000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	27000.0000	-0.5000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.1500

Compensated Density Calibration Report

Serial-Model: 305-24-M&W  
 Source / Verifier: 20762B / 2ci  
 Master Calibration Performed: Tue Feb 6 18:43:03 2024  
 Before Survey Verification Performed:  
 After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.680	g/cc	5028.88	5761.57	cps
Aluminum	2.560	g/cc	1122.37	3952.02	cps
Spine Angle = 75.89			Density/Spine Ratio = 0.569		
	Size		Reading		
Small Ring	4.00	in	1.74		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial Number: 201-M&W  
 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

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	
3)	Short Space Long Space	cps cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	105	
Tool Model:	M&W	
Performed:	Mon Aug 7 20:46:01 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps

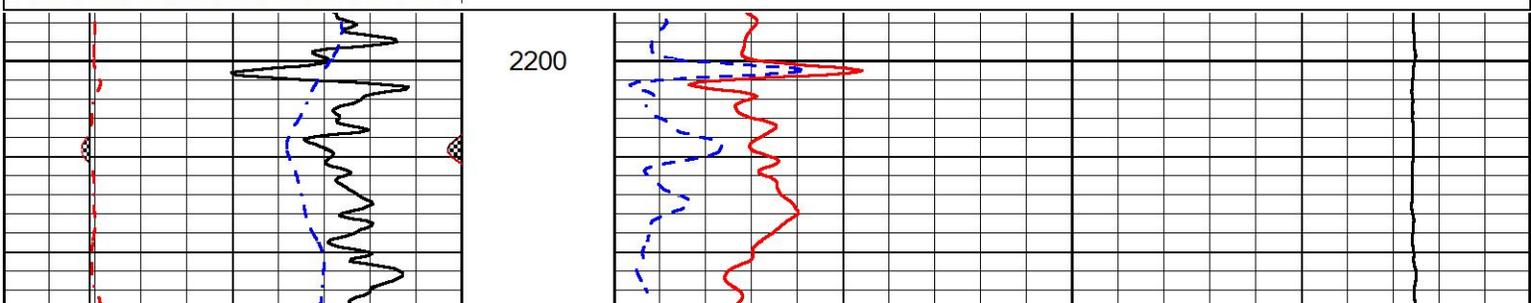


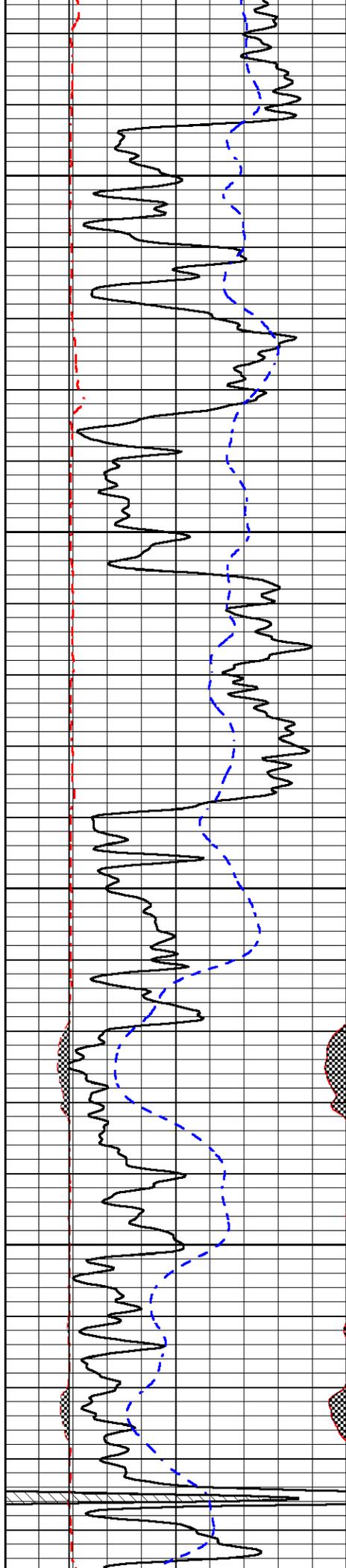
DETAIL SECTION

MAIN PASS

Database File castle\_mollhagen #2.db  
 Dataset Pathname STKML/pass3.1  
 Presentation Format \_micro  
 Dataset Creation Fri Jul 12 16:57:27 2024  
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	Caliper (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mcal (in)	7.875	10000	Line Weight (lb)	0
-200	sp (mV)	0			



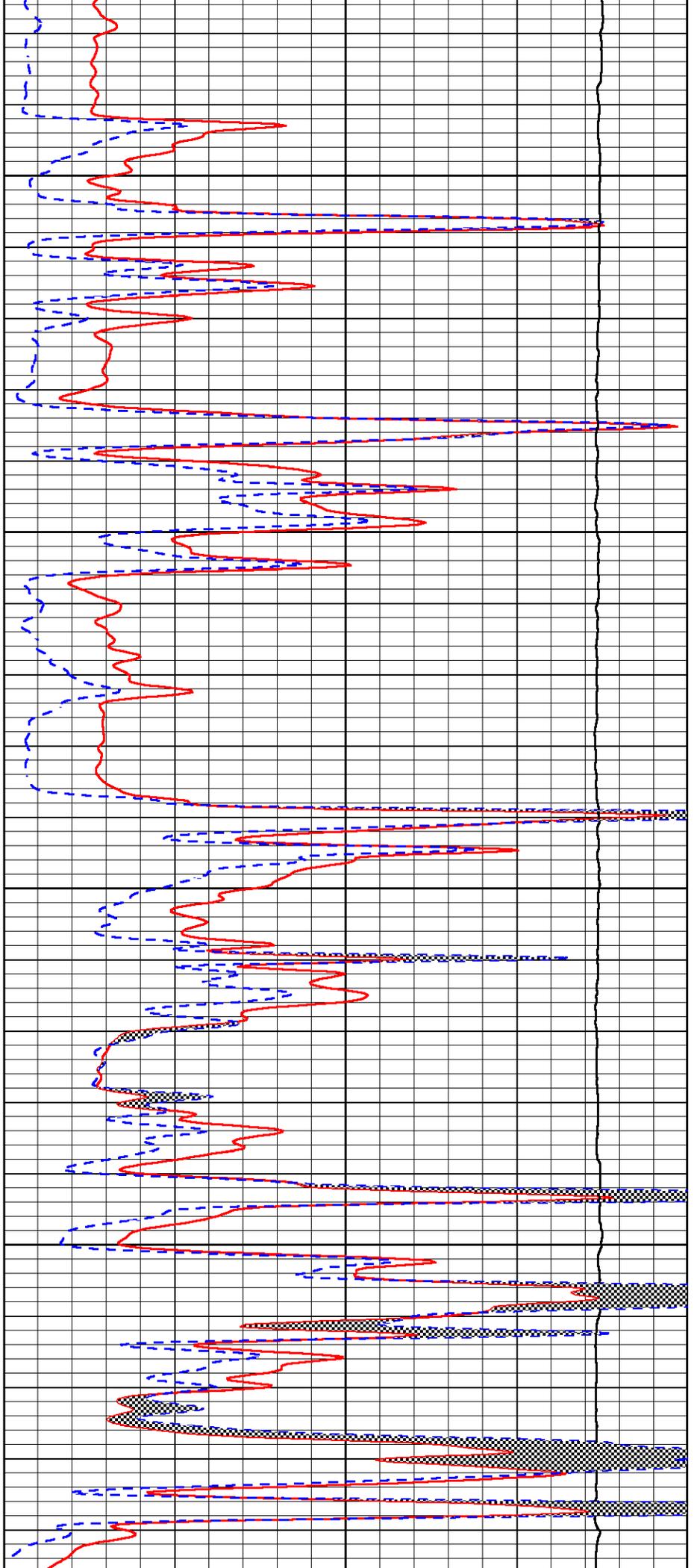


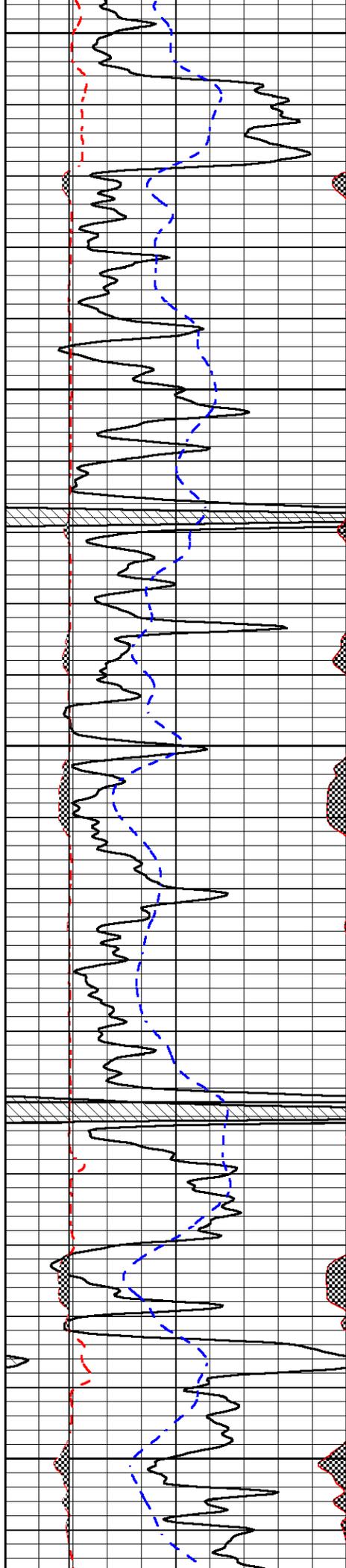
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2300

2350

2400





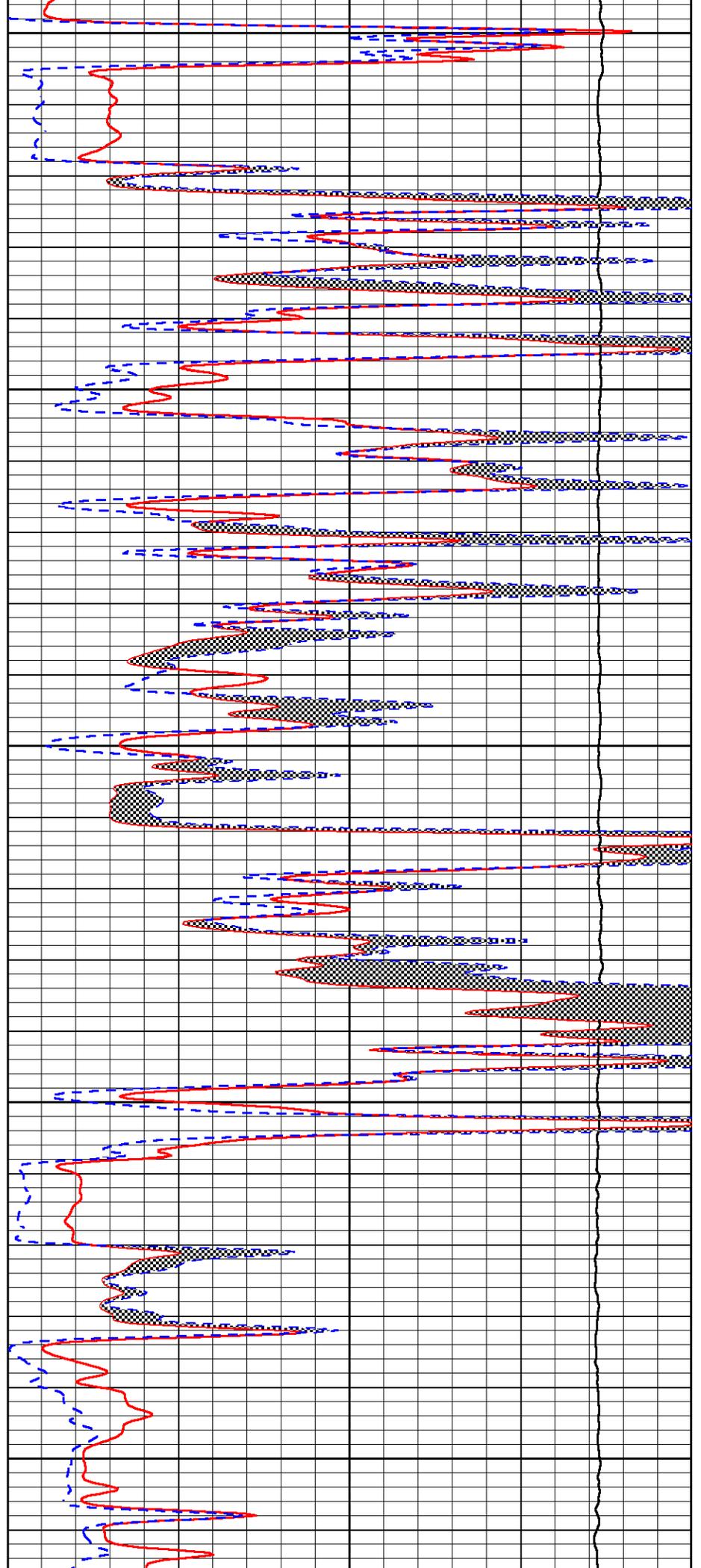
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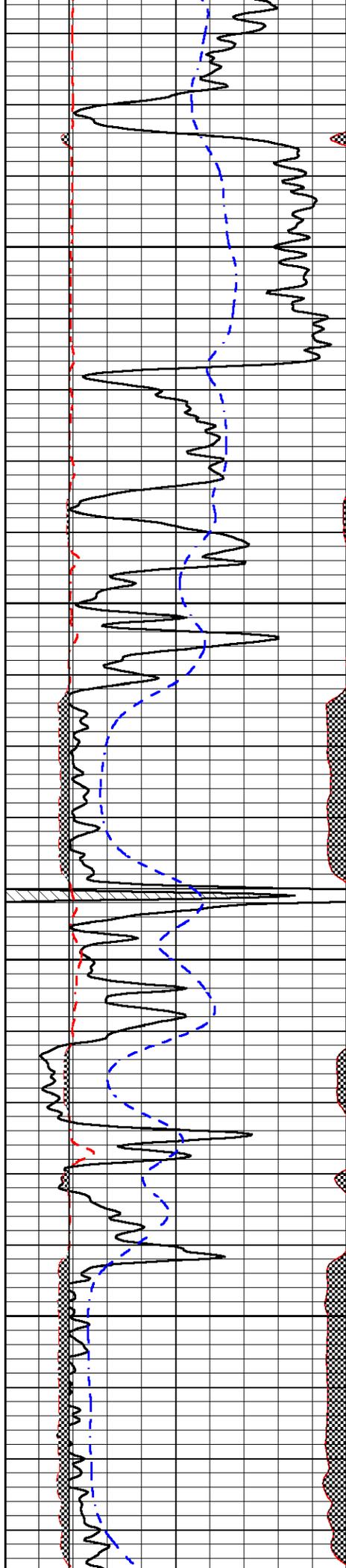
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2550

2600

2650



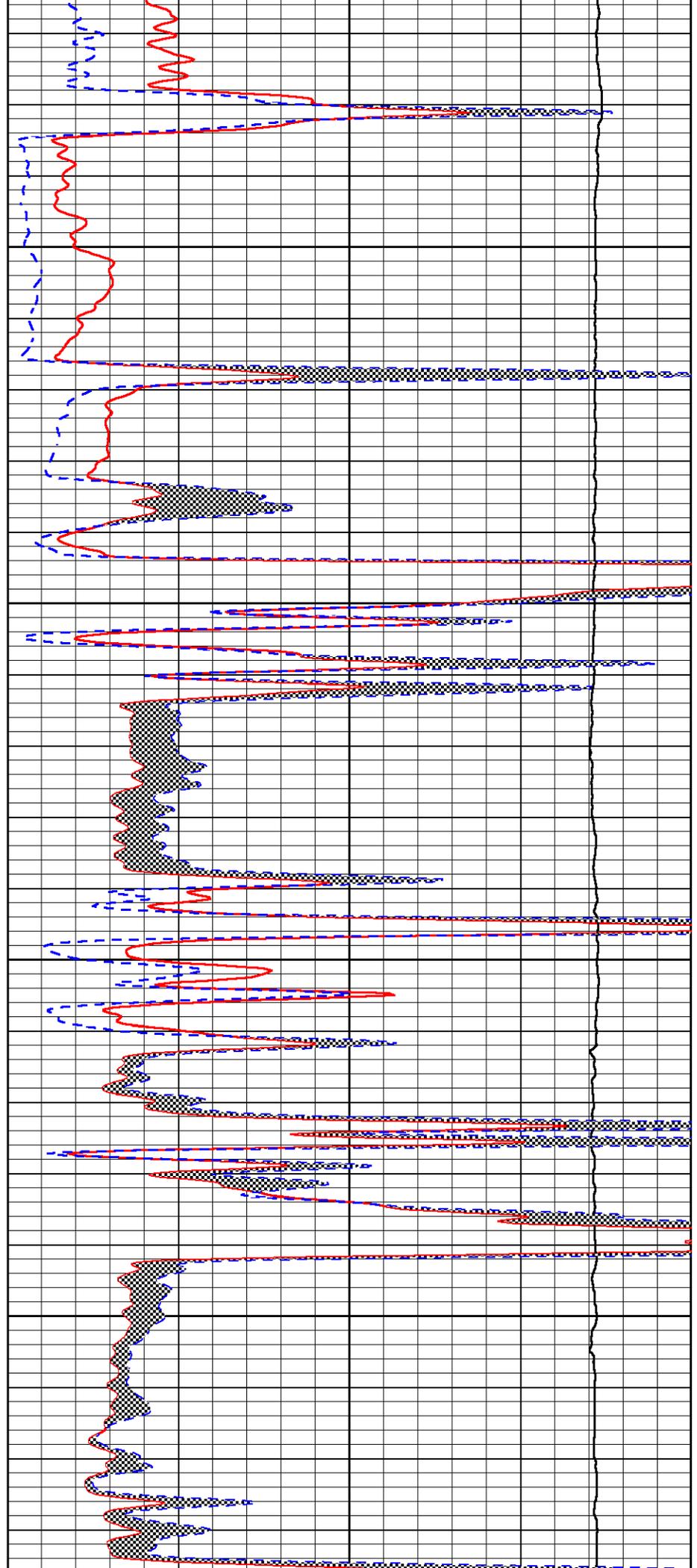


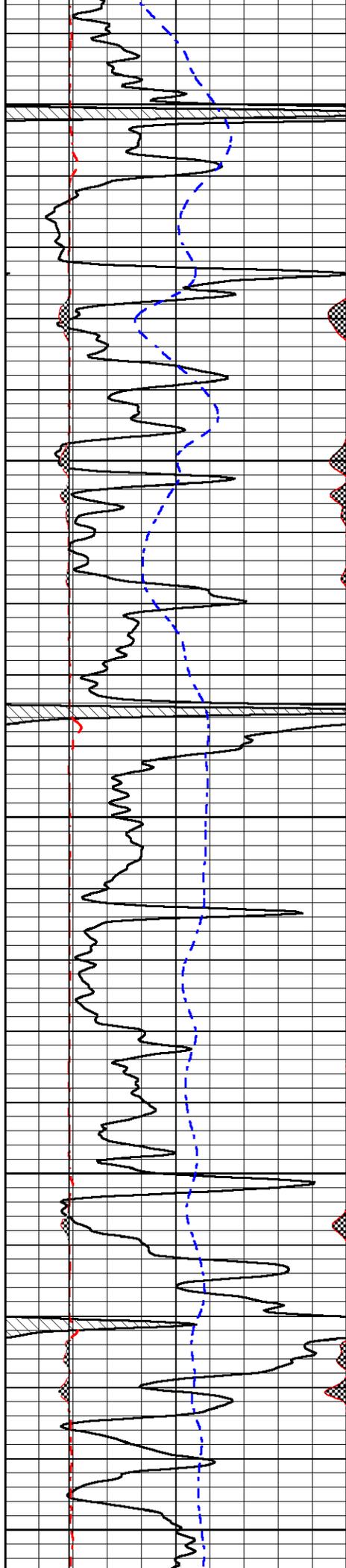
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2750

2800

2850





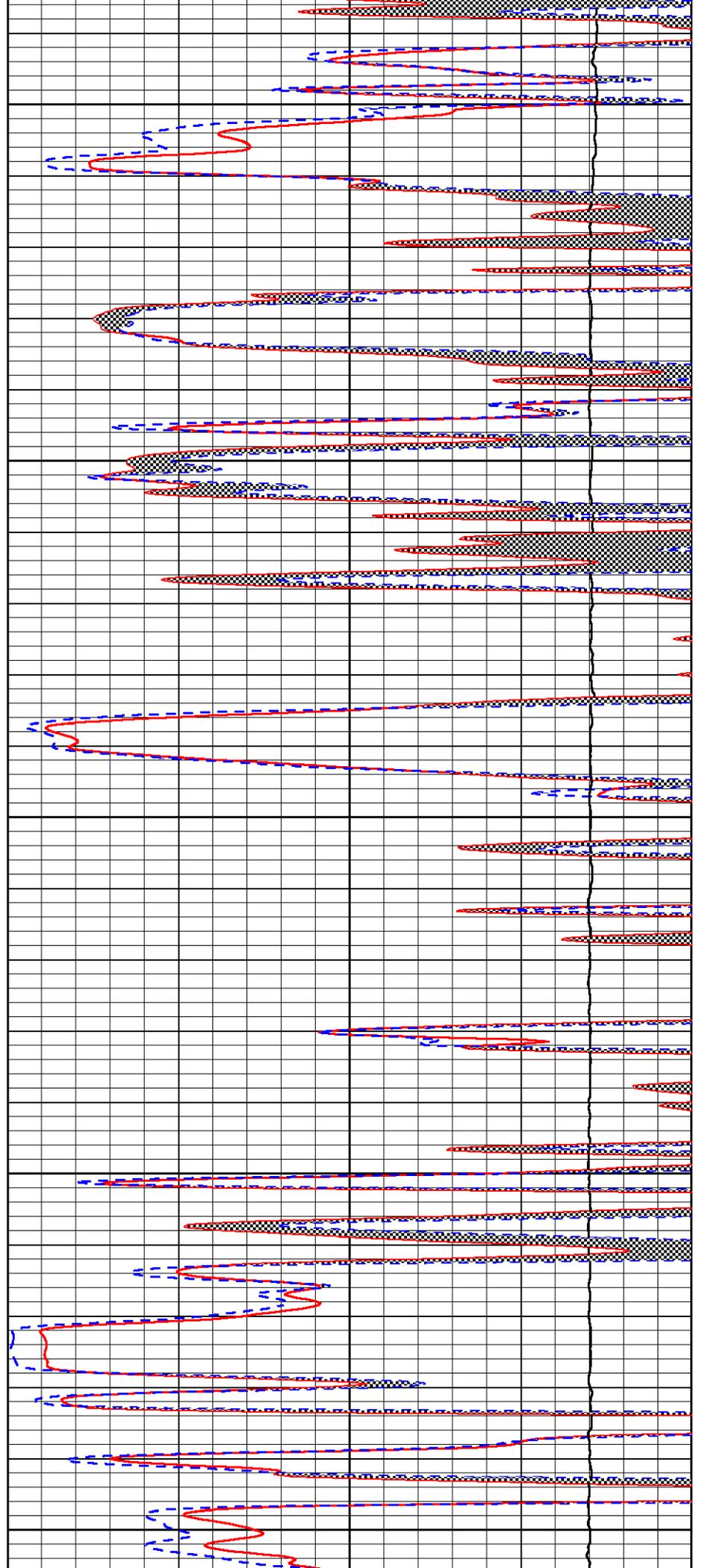
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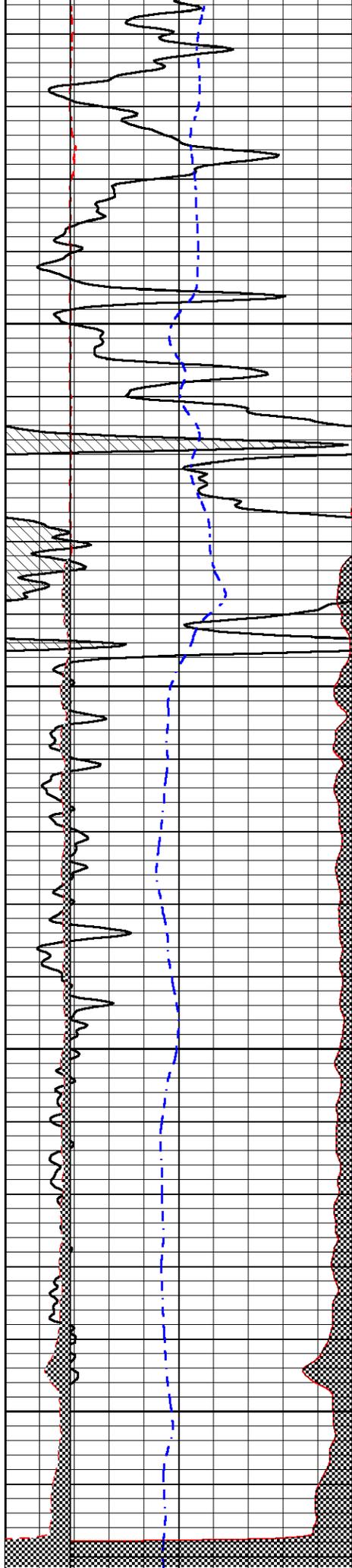
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3000

3050

3100



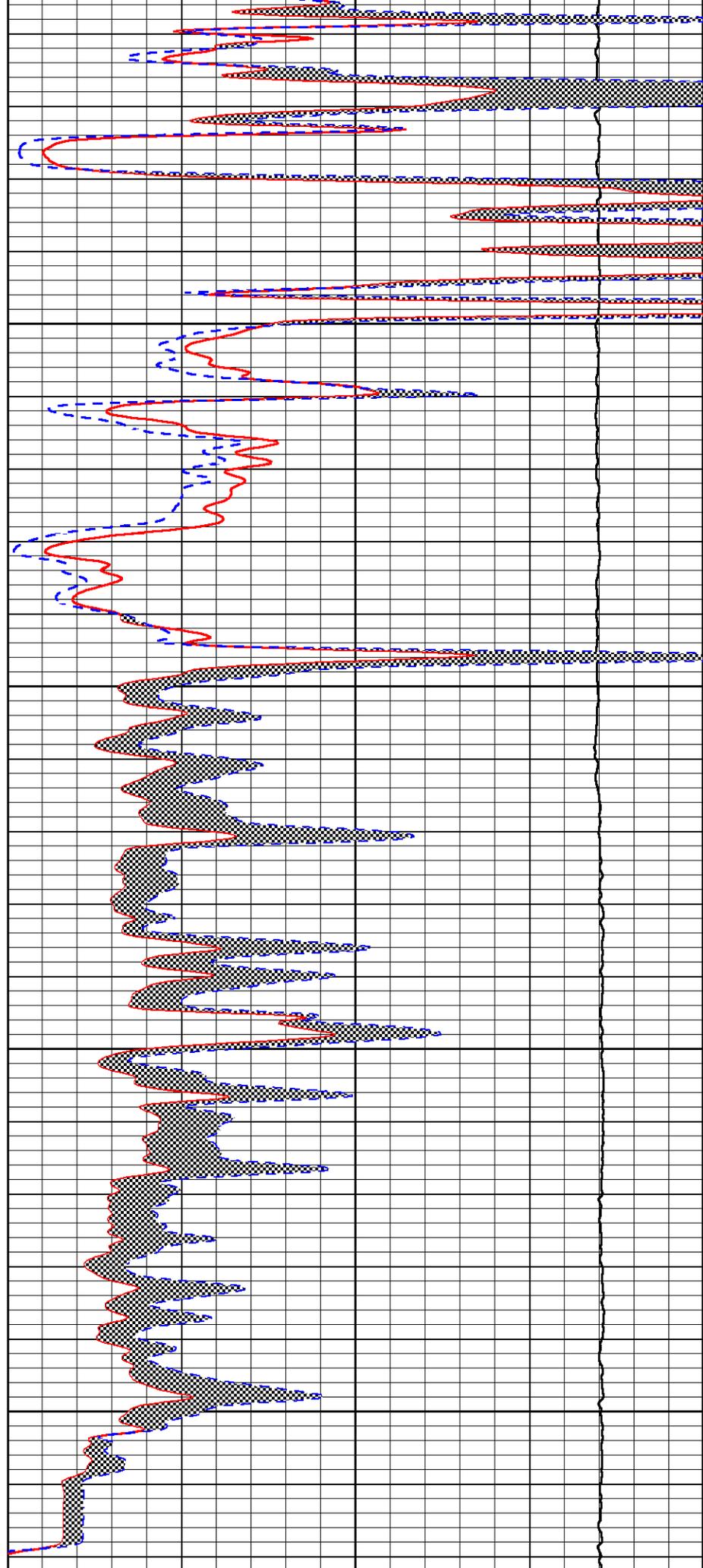


3150

3200

3250

3300



0	GR (GAPI)	150
6	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



MIDWEST WIRELINE

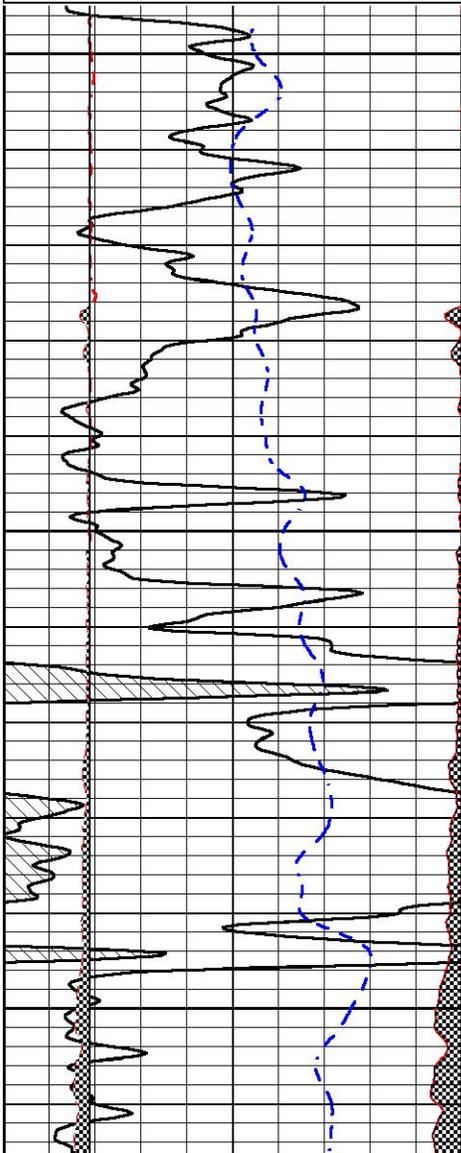
# REPEAT SECTION

## REPEAT PASS

Database File castle\_mollhagen #2.db  
 Dataset Pathname STKML/pass2.1  
 Presentation Format \_micro  
 Dataset Creation Fri Jul 12 17:29:05 2024  
 Charted by Depth in Feet scaled 1:240

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

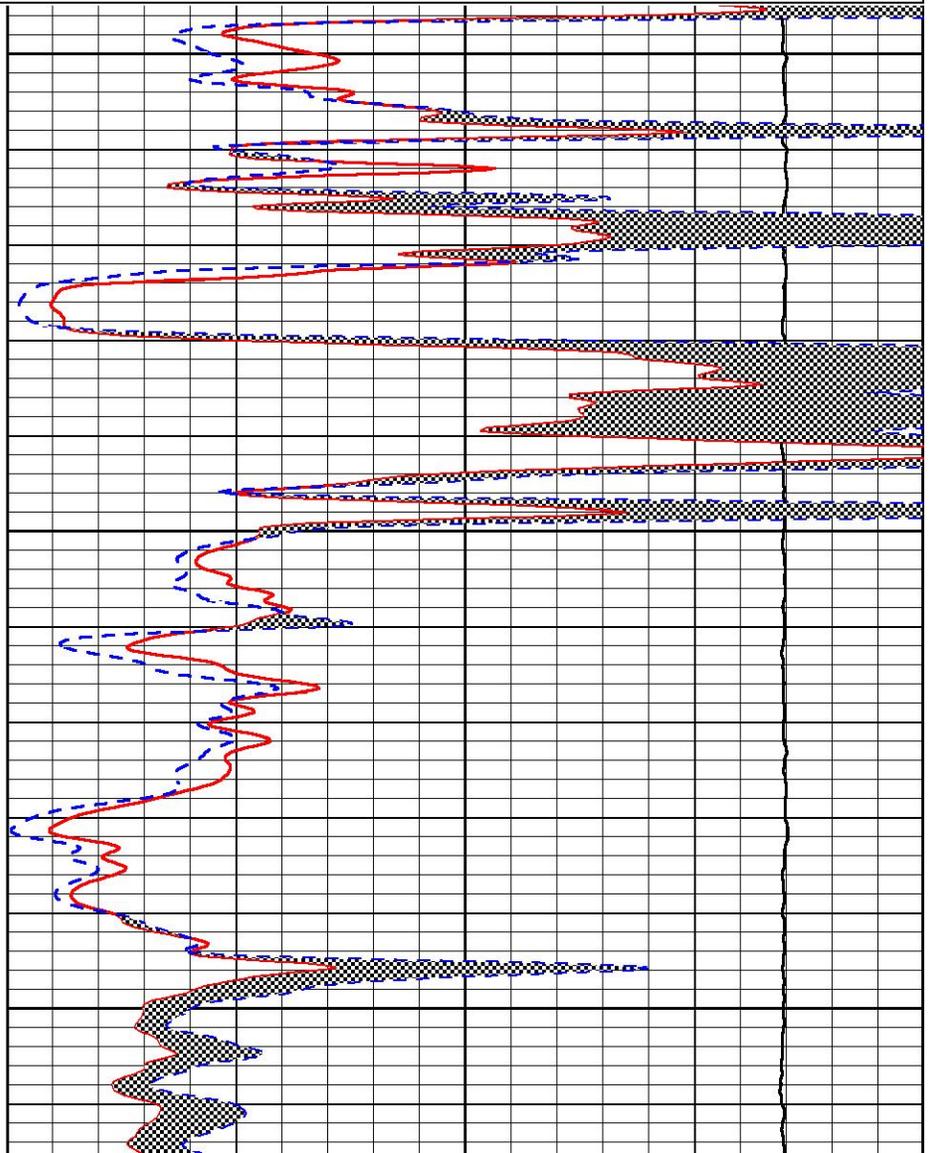
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3100

3150

3200





	Readings		References		Results		
	Zero	Cal	Zero	Cal		m	b
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Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	27000.0000	-0.5000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.1500

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Long Space	460.00 cps	1000.00 cps	1.9500

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	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		

Long Space

cps

pu

pu

Gamma Ray Calibration Report

Serial Number:	105	
Tool Model:	M&W	
Performed:	Mon Aug 7 20:46:01 2023	
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Sensitivity:	0.6000	GAPI/cps



MIDWEST WIRELINE

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Field	Geneseo-Edwards
County	Ellsworth
State	Kansas