



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Castle Resources, Inc.		Company Castle Resources, Inc.	
Well	Hund #2	Well	Hund #2
Field	Newberry	Field	Newberry
County	Wabaunsee	County	Wabaunsee
State	Kansas	State	Kansas
Location: API #: 15-197-20321-00-00		Other Services	
1720 FSL & 900 FEL		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	1113
Log Measured From	Kelly Bushing	K.B.	1118
Drilling Measured From	Kelly Bushing	D.F.	1113
		G.L.	1113
SEC 2 TWP 11S RGE 11E			
Date	4/6/2023		
Run Number	One		
Depth Driller	3100		
Depth Logger	3104		
Bottom Logged Interval	3103		
Top Log Interval	2100		
Casing Driller	8.625 @ 300		
Casing Logger	308		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4000		
Density / Viscosity	9.6 45		
pH / Fluid Loss	9.2 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.60 @ 70		
Rmt @ Meas. Temp	1.95 @ 70		
Rmc @ Meas. Temp	3.51 @ 70		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	1.70 @ 107		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	107		
Equipment Number	P-108		
Location	HAYS		
Recorded By	D. Schmidt		
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.

Paxico,
5 North to Homestead, 1 East, 1/4 North,
West and North to location

Log Measured From: Kelly Bushing

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:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33			GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48			CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18			CDL-M&W (303-03)	8.50	4.00	250.00
	28.17			ML-PSI STKBL ML (402)	7.58	4.00	65.00
	27.68						
MCAL MI MN	19.58						
	19.58						
	19.58						
RLL3F RLL3	15.50			DIL-M&W (505 HT)	18.25	3.50	220.00
	15.50						
CILD	8.33						
CILM	4.50						
SP	0.20						
Dataset: castle_hund 2.db: field/well/stkml/pass5.1							
Total length: 42.33 ft							
Total weight: 685.00 lb							
O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_hund 2.db
Dataset field/well/stkml/pass5.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	107	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	-3.6	7.6	231	60	Off	3100

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



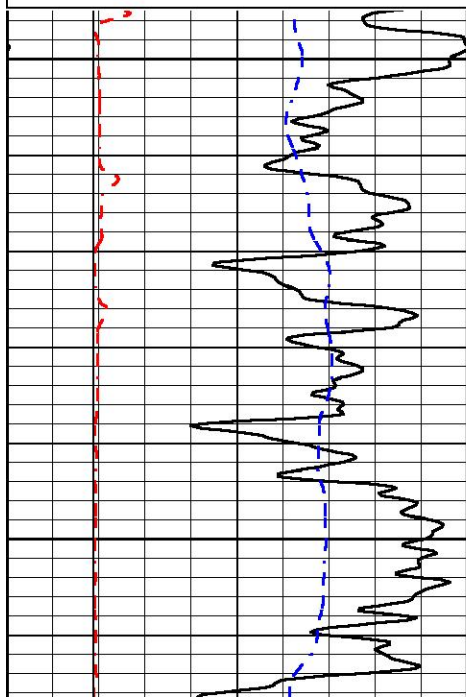
DETAIL SECTION

MAIN PASS

Database File castle_hund 2.db
Dataset Pathname stkml/pass5.1
Presentation Format _micro
Dataset Creation Thu Apr 06 18:55:40 2023
Charted by Depth in Feet scaled 1:240

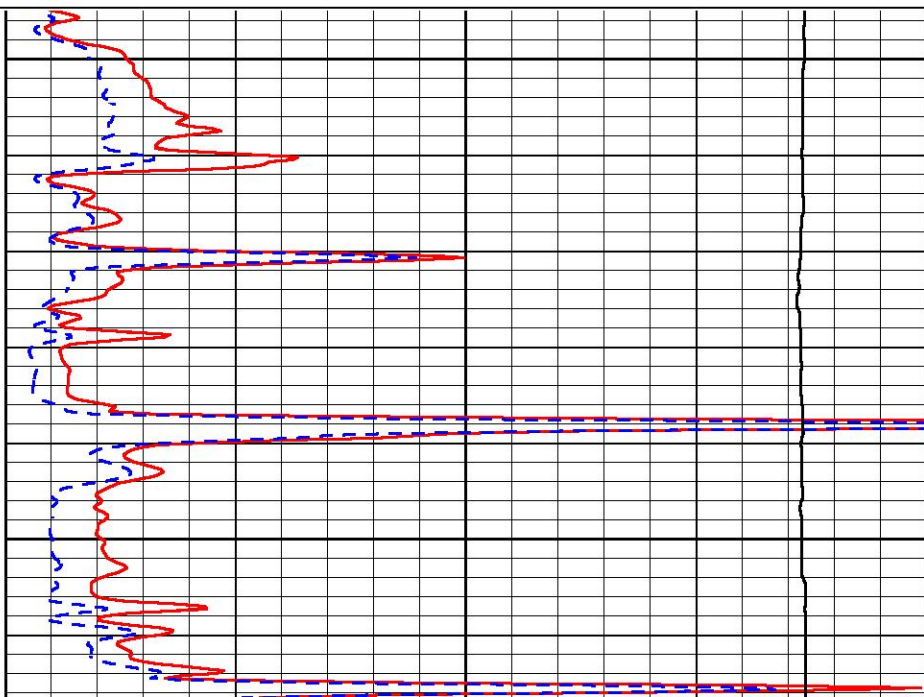
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

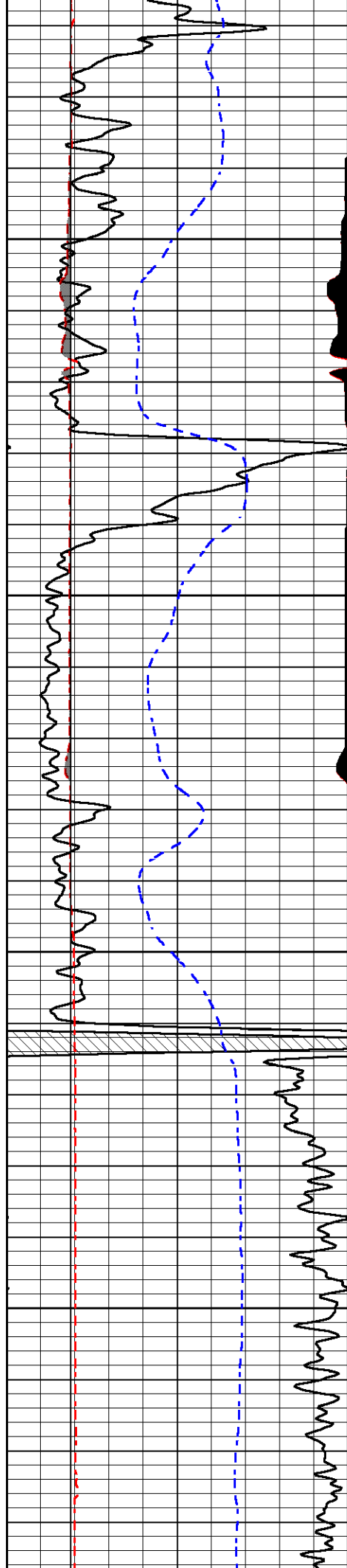
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2100

2150



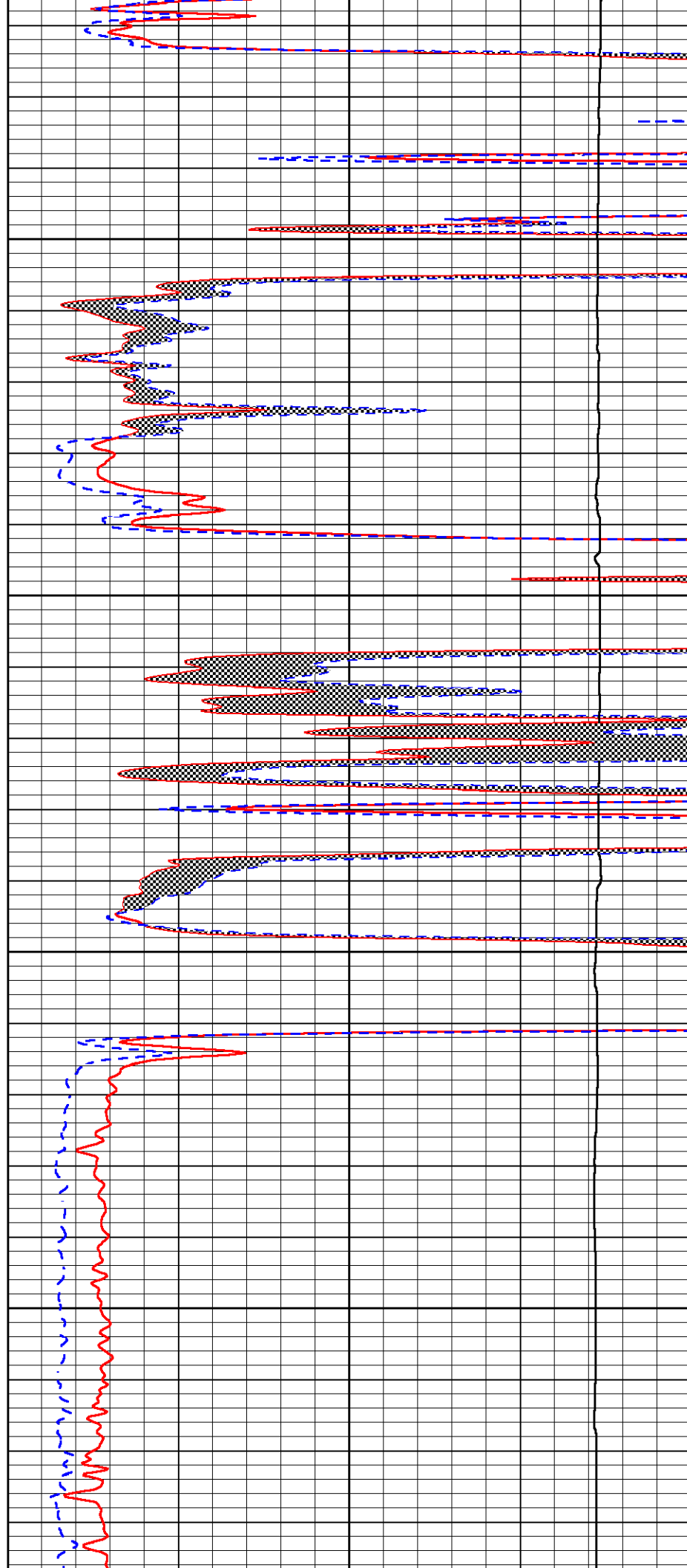


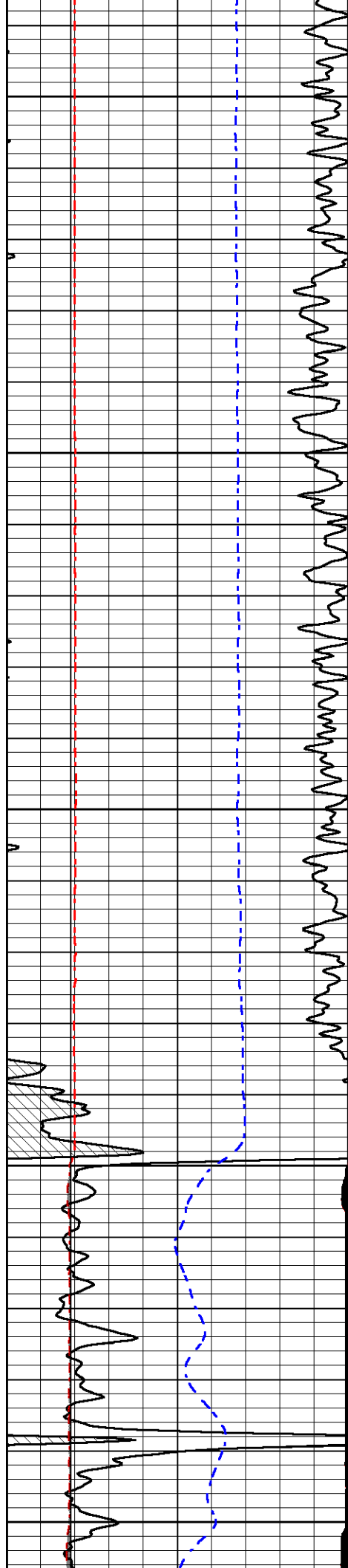
2200

2250

2300

2350





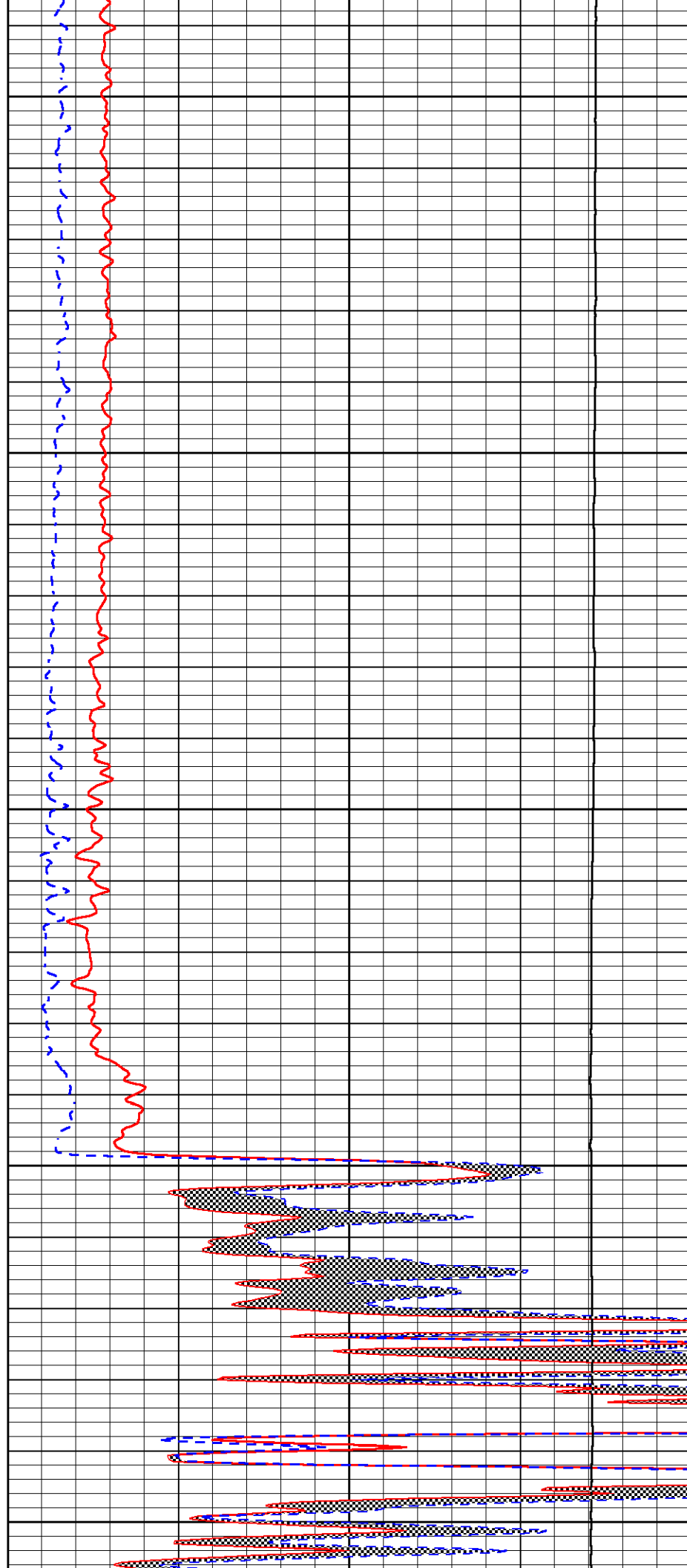
2400

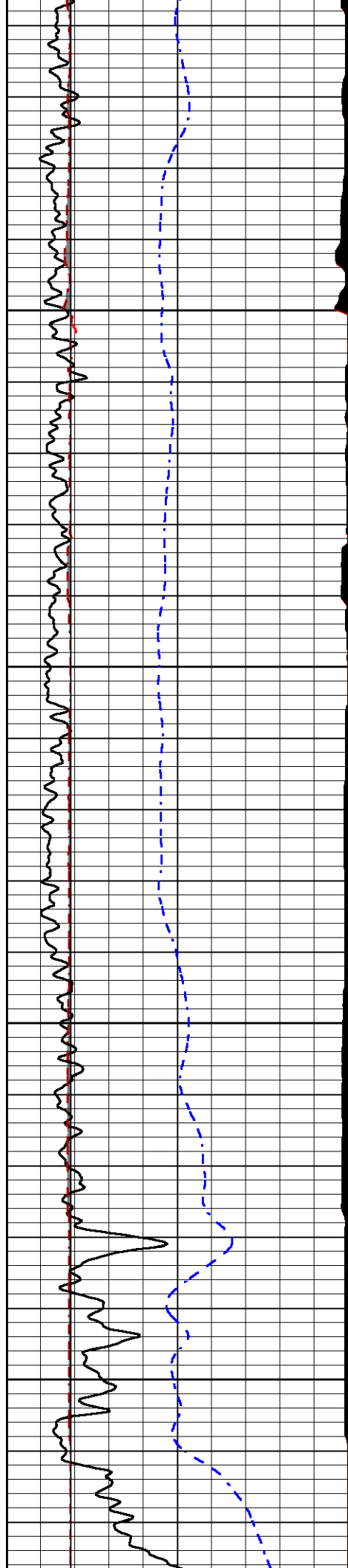
2450

2500

2550

2600



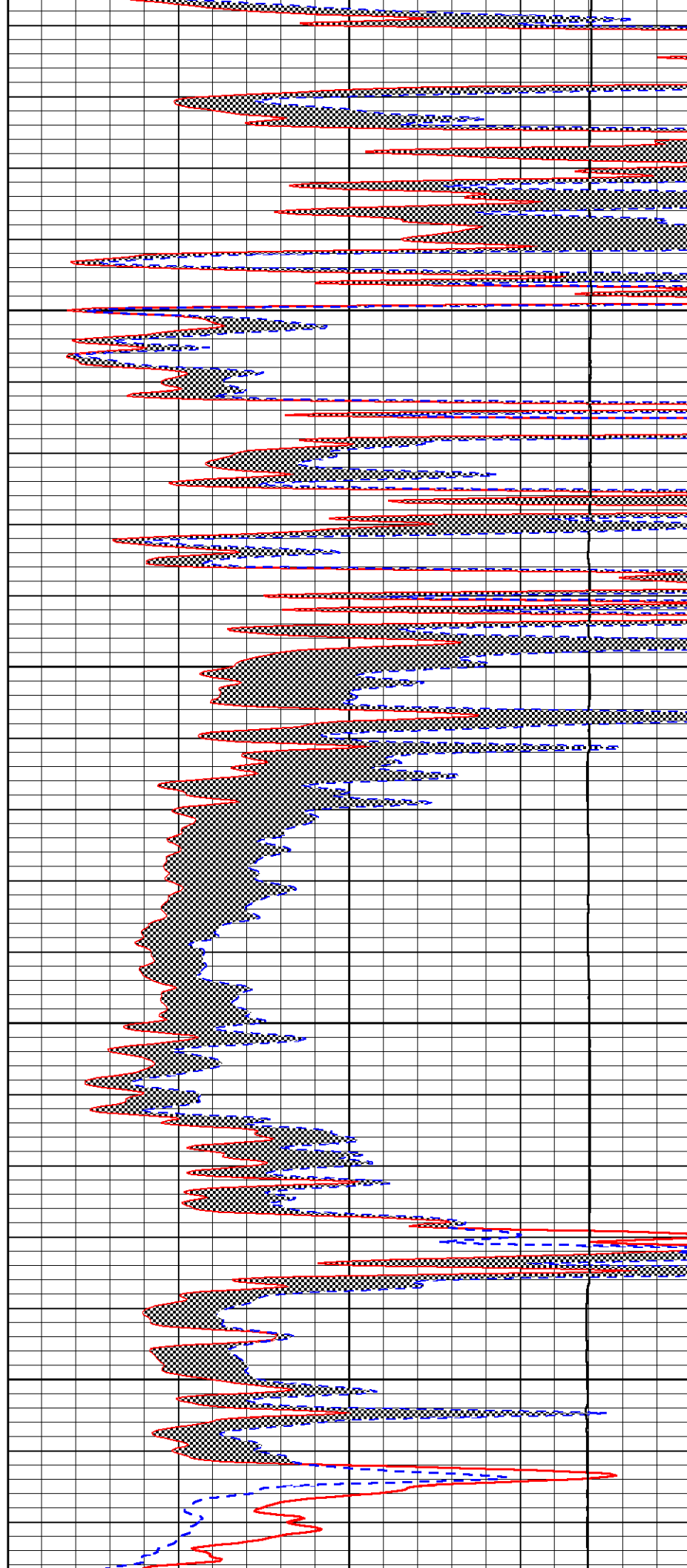


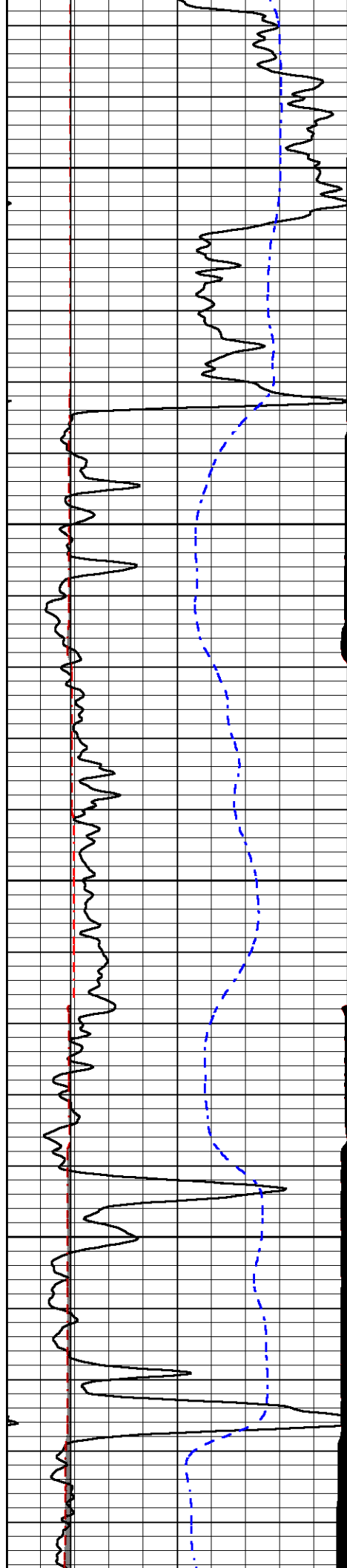
2650

2700

2750

2800



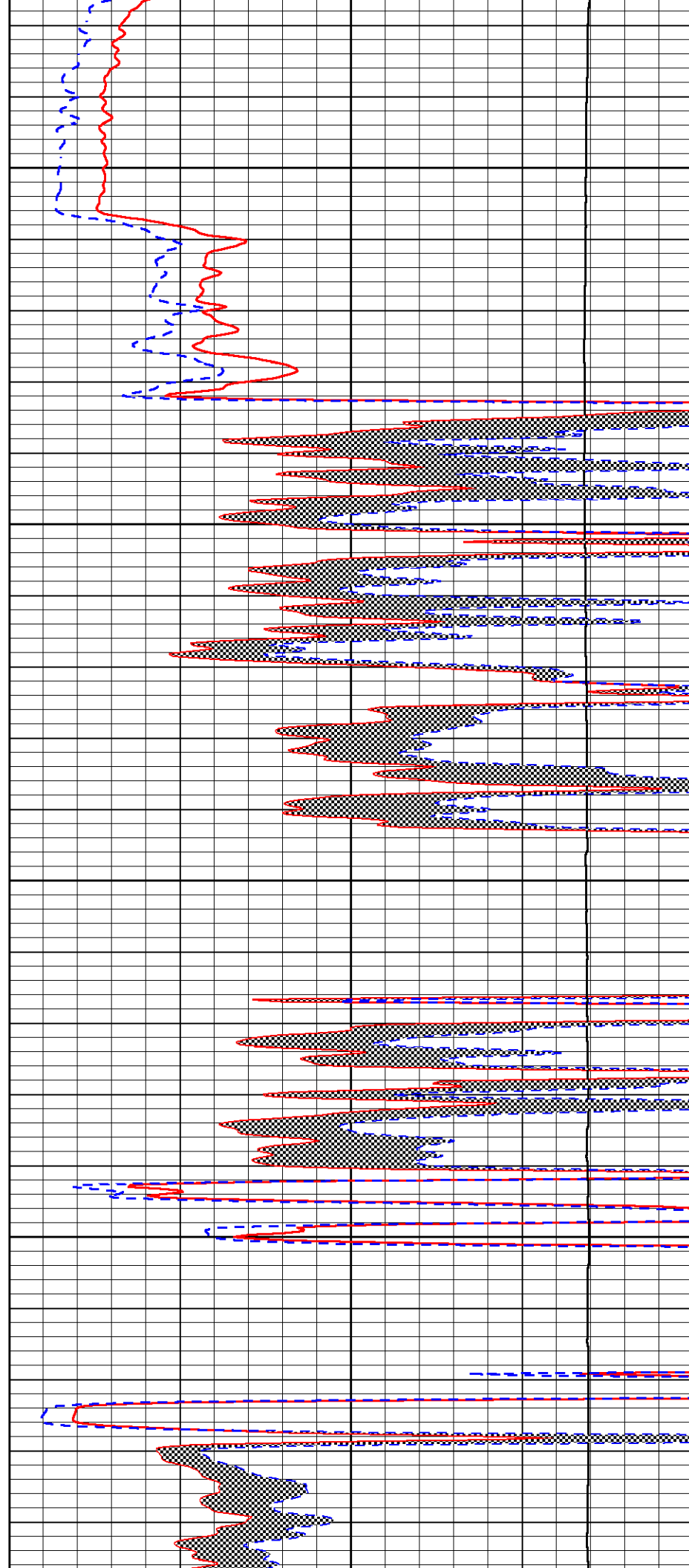


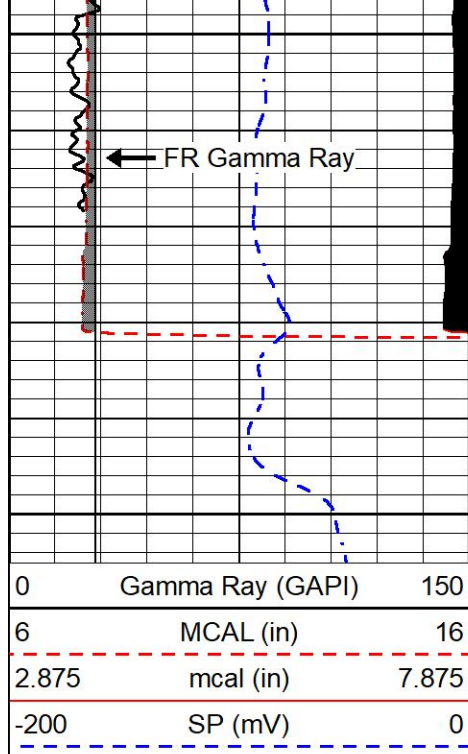
2850

2900

2950

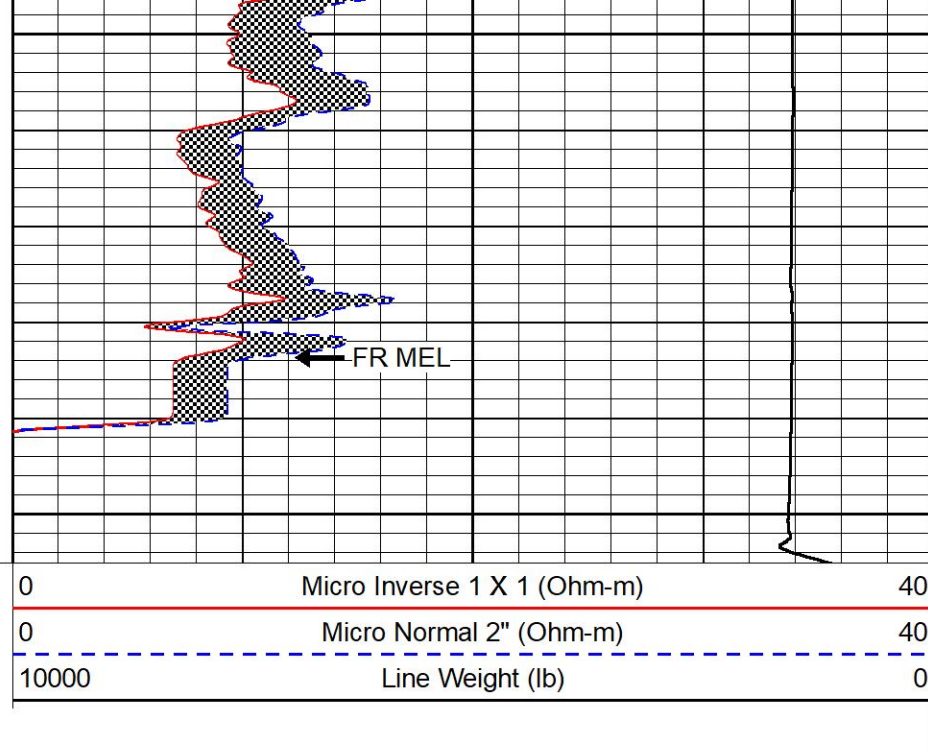
3000





3050

3100

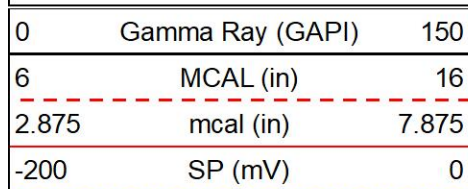


MIDWEST WIRELINE

REPEAT SECTION

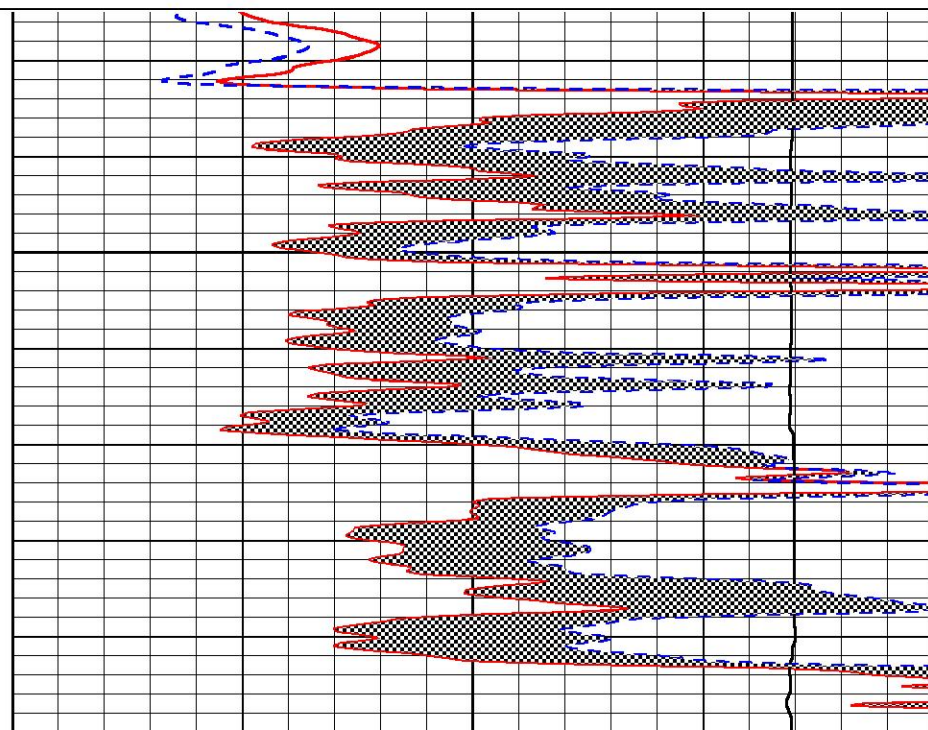
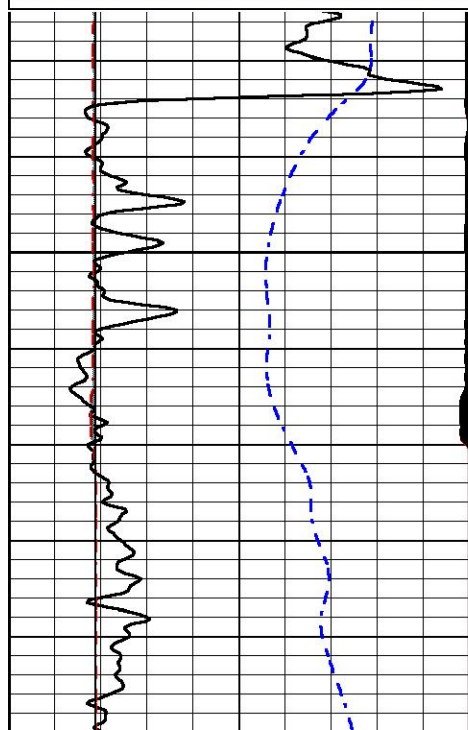
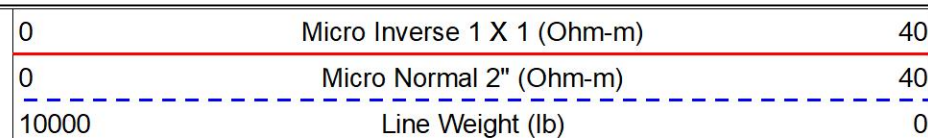
REPEAT PASS

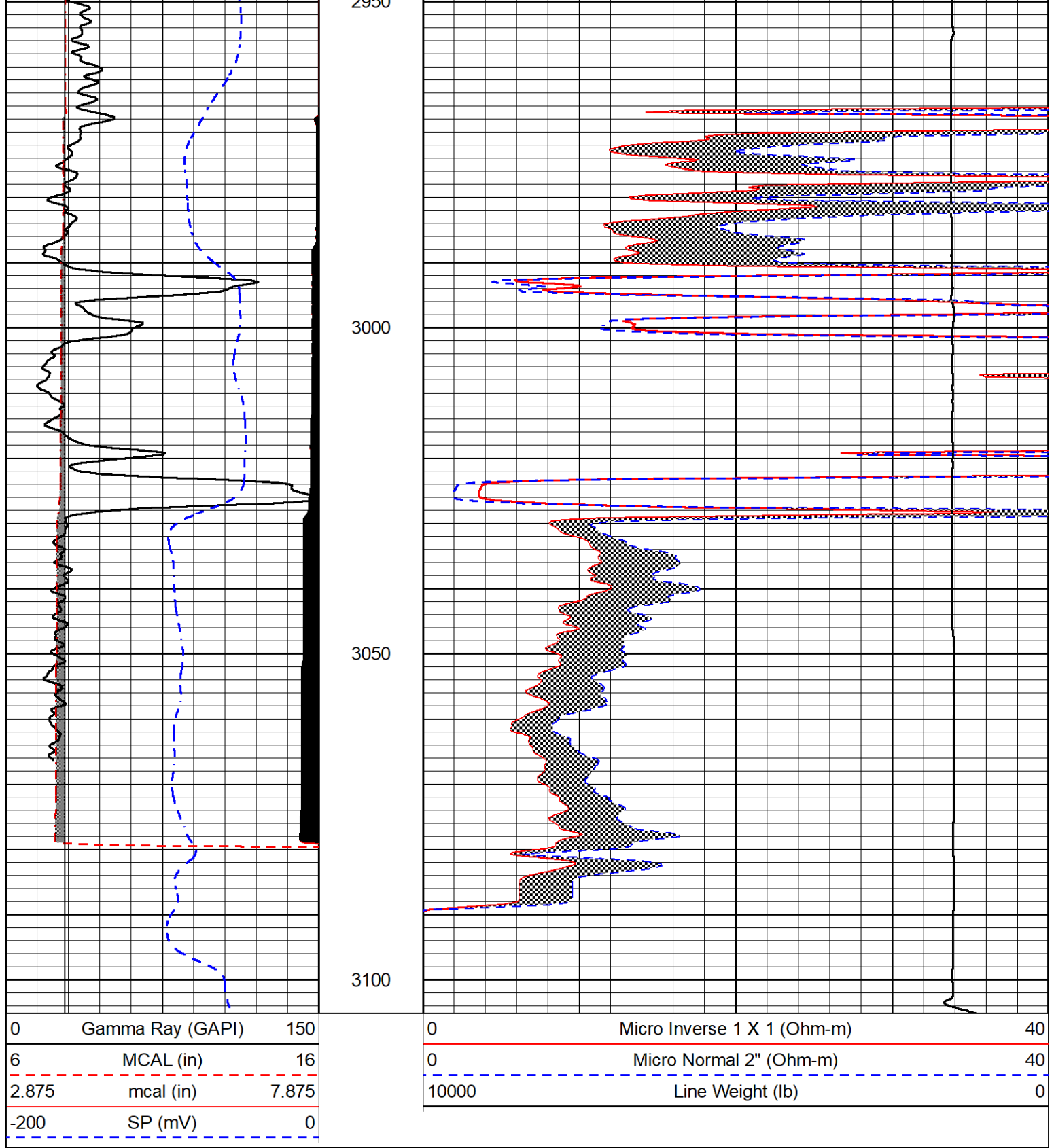
Database File castle_hund 2.db
 Dataset Pathname stkml/pass4.1
 Presentation Format _micro
 Dataset Creation Thu Apr 06 18:46:08 2023
 Charted by Depth in Feet scaled 1:240



2900

2950





Calibration Report

Database File castle_hund 2.db
Dataset Pathname stkml/pass5.1
Dataset Creation Thu Apr 06 18:55:40 2023

Dual Induction Calibration Report

Serial-Model: 505 HT-M&W
Surface Cal Performed: Mon Mar 20 13:26:49 2023

Readings

References

Results

Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	167.000	835.000	0.000	255.800	mmho/m	0.475	-43.000
Medium	1348.000	1348.000	0.000	255.800	mmho/m	0.410	-52.000
Microlog Calibration Report							
Serial-Model: Performed:			402-PSI STKBL ML Wed Jan 25 21:26:04 2023				
Readings		References			Results		
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	11000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	11500.0000	-0.5000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.6250
Compensated Density Calibration Report							
Serial-Model: Source #: Master Calibration Performed:			303-03-M&W 21170B Mon Mar 20 13:27:55 2023				
Master Calibration							
	Density		Far Detector		Near Detector		
Magnesium	1.755	g/cc	3841.78		5151.73	cps	
Aluminum	2.665	g/cc	700.98		3068.49	cps	
Spine Angle = 73.06			Density/Spine Ratio = 0.512				
	Size		Reading				
Small Ring	4.00	in	1.17				
Large Ring	14.00	in	1.03				
Compensated Neutron Calibration Report							
Serial-Model: Source #: Master Calibration Performed:			210-M&W N-1238 Fri Dec 3 09:16:24 2021				
Master 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:		103					
Tool Model:		M&W					
Performed:		Wed Jan 25 21:25:33 2023					
Calibrator Value:		500.0		GAPI			
Background Reading:		28.0		cps			
Calibrator Reading:		986.0		cps			

Sensitivity:

0.5700

GAPI/cps



MIDWEST WIRELINE

Company	Castle Resources, Inc.
Well	Hund #2
Field	Newberry
County	Wabaunsee
State	Kansas