



MICRORESISTIVITY LOG

PIONEER
Pioneer Energy Services

Company BLUE GOOSE DRILLING CO., INC.
Well HINEMAN FARMS #1
Field WILDCAT
County LANE
State KANSAS

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Location: API #: 15-101-22609-00-00

Other Services

NE NE NW
330' FNL & 2310' FWL
SEC 16 TWP 18S RGE 27W

CNL/CDL
DIL

Permanent Datum GROUND LEVEL Elevation 2691'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2701'
D.F. N/A
G.L. 2691'

Date	8/25/2018		
Run Number	TWO		
Depth Driller	4660'		
Depth Logger	4662'		
Bottom Logged Interval	4661'		
Top Log Interval	3600'		
Casing Driller	8.625" @ 261'		
Casing Logger	259'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	3100		
Density / Viscosity	9.2 74		
pH / Fluid Loss	10.0 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.70 @ 67		
Rmt @ Meas. Temp	0.53 @ 67		
Rmc @ Meas. Temp	0.95 @ 67		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.38 @ 123		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	123		
Equipment Number	91		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	KEN WALLACE		

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, 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.

DIGHTON,
6 EAST TO TURKEY RED RD, 1 NORTH TO TB,
WEST INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: KEN WALLACE
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	337	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	4660	123	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	1.00 1.00 1.00		ML-Armadillo (ARM001) Pengo Mandrel & Armadillo ML Electronics (2014)	5.50	3.50	100.00

Dataset: bluegoose_hineman farms 1.db: field/well/MEL/pass2

Total length: 5.50 ft

Total weight: 100.00 lb

O.D.: 3.50 in

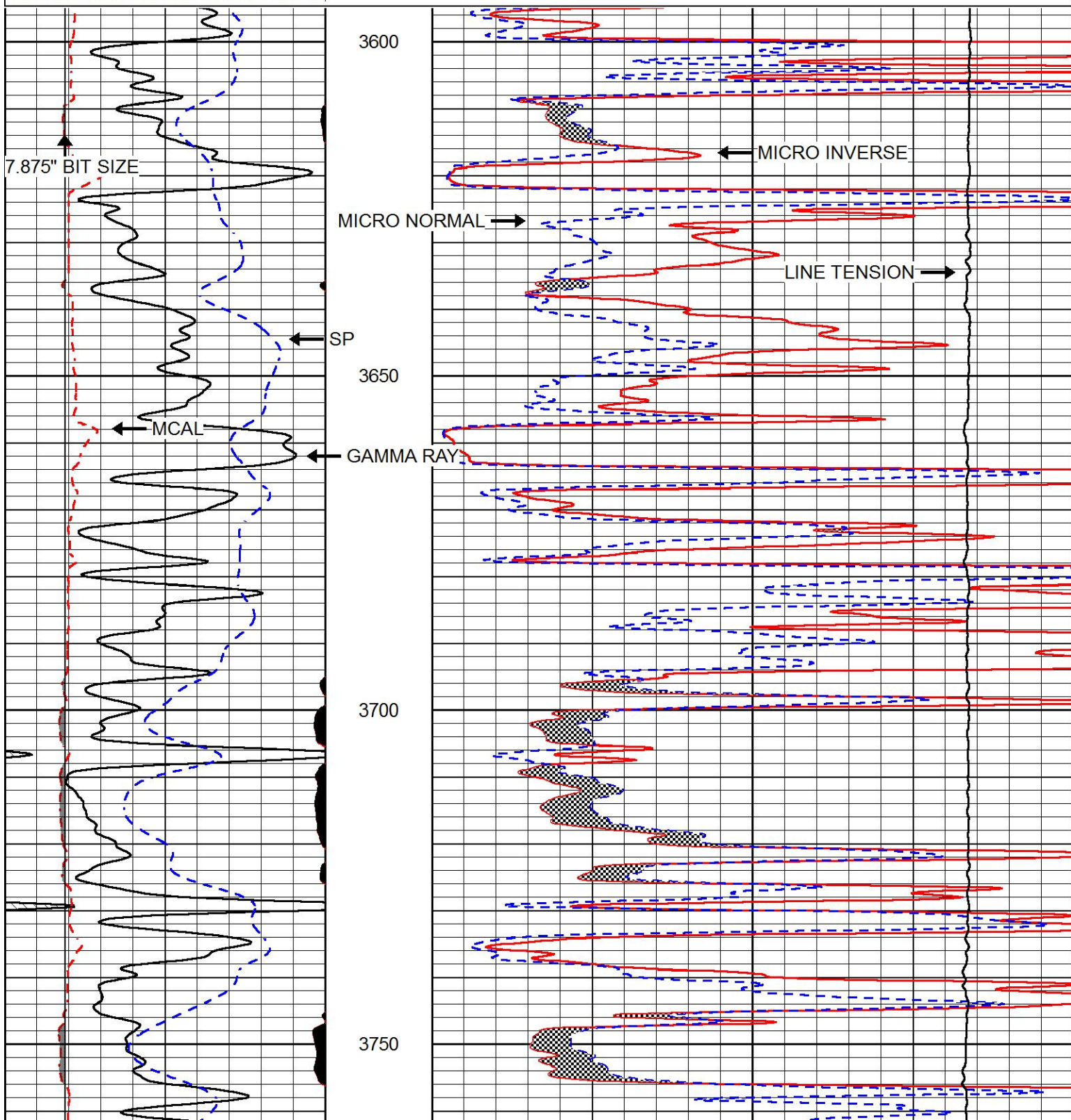


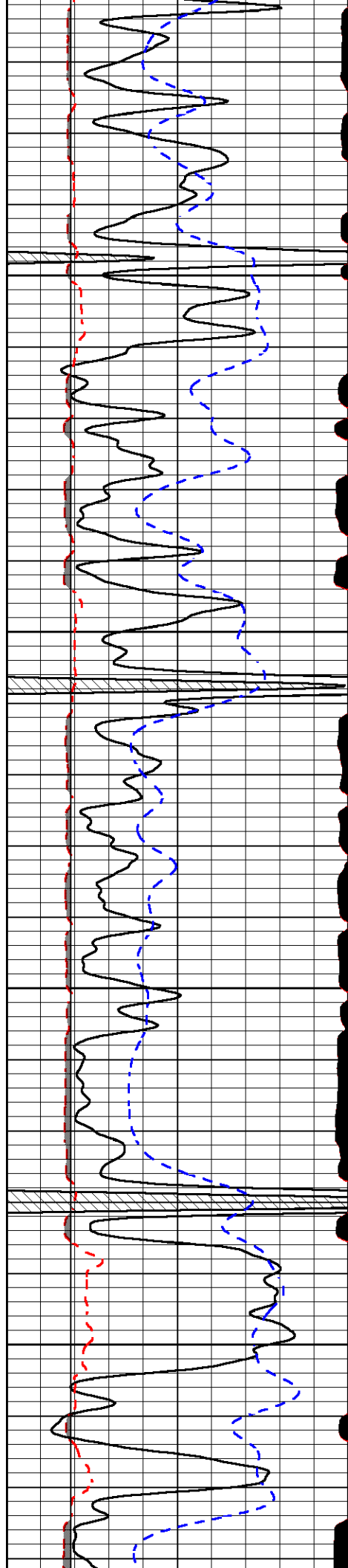
MAIN PASS

Database File bluegoose_hineman farms 1.db
Dataset Pathname STACK/pass4.1
Presentation Format micro
Dataset Creation Sat Aug 25 01:54:11 2018
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcals (in)	7.875
6	Bit Size (in)	16
-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



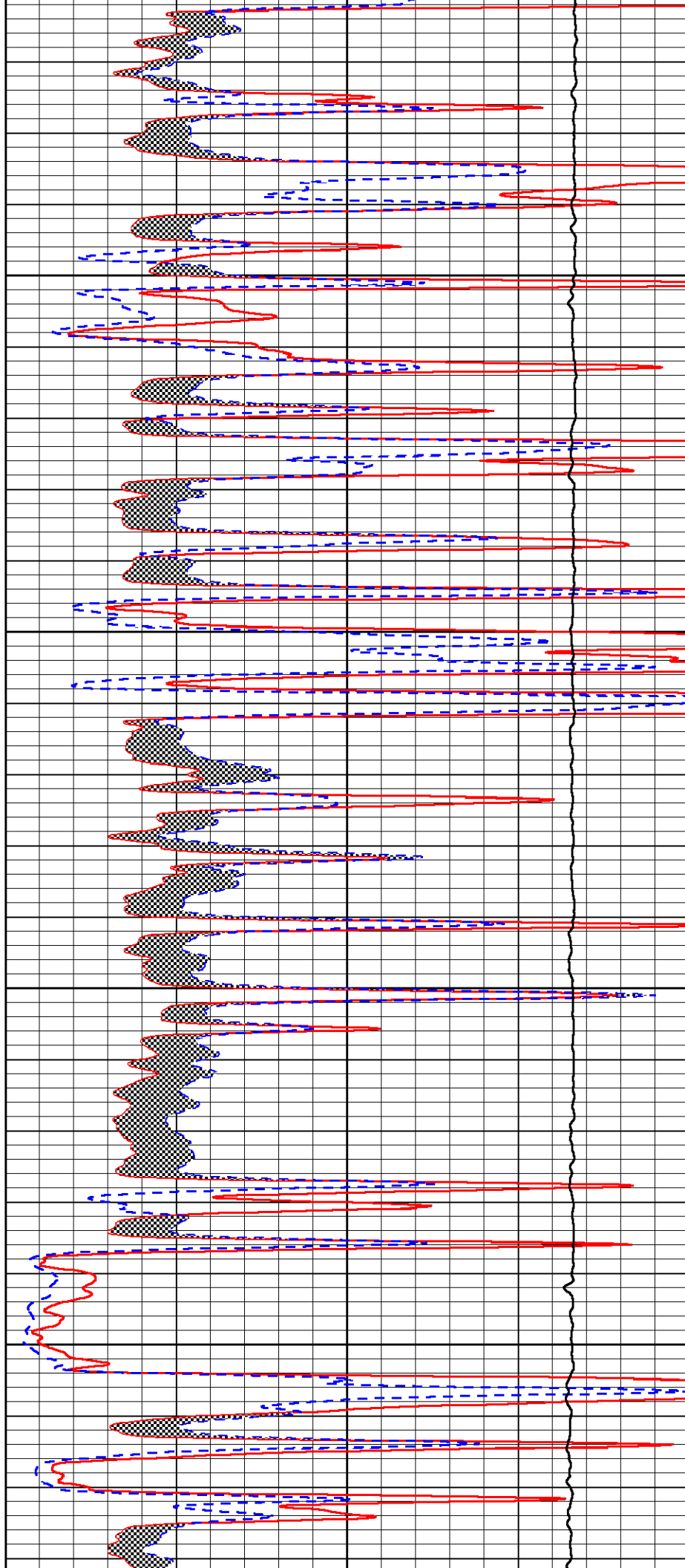


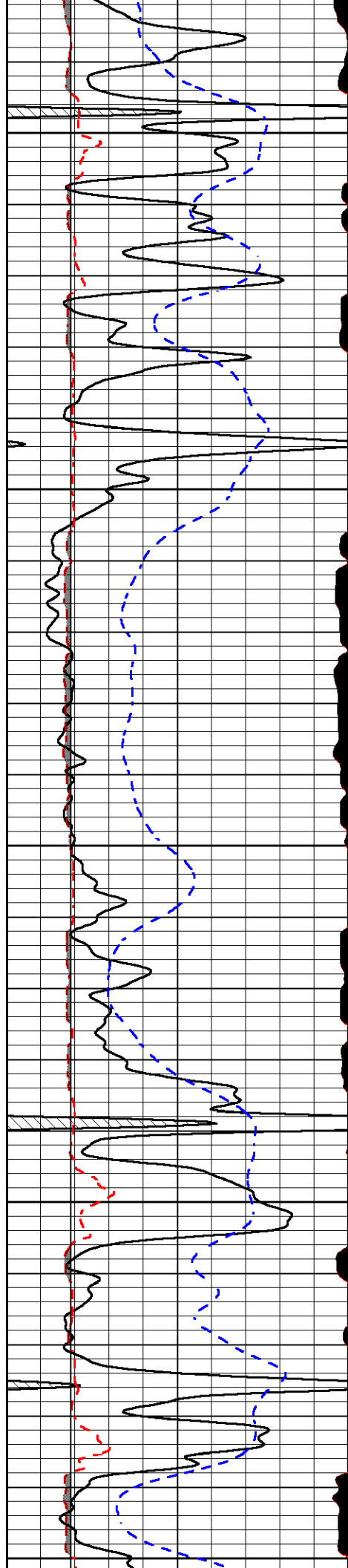
3800

3850

3900

3950





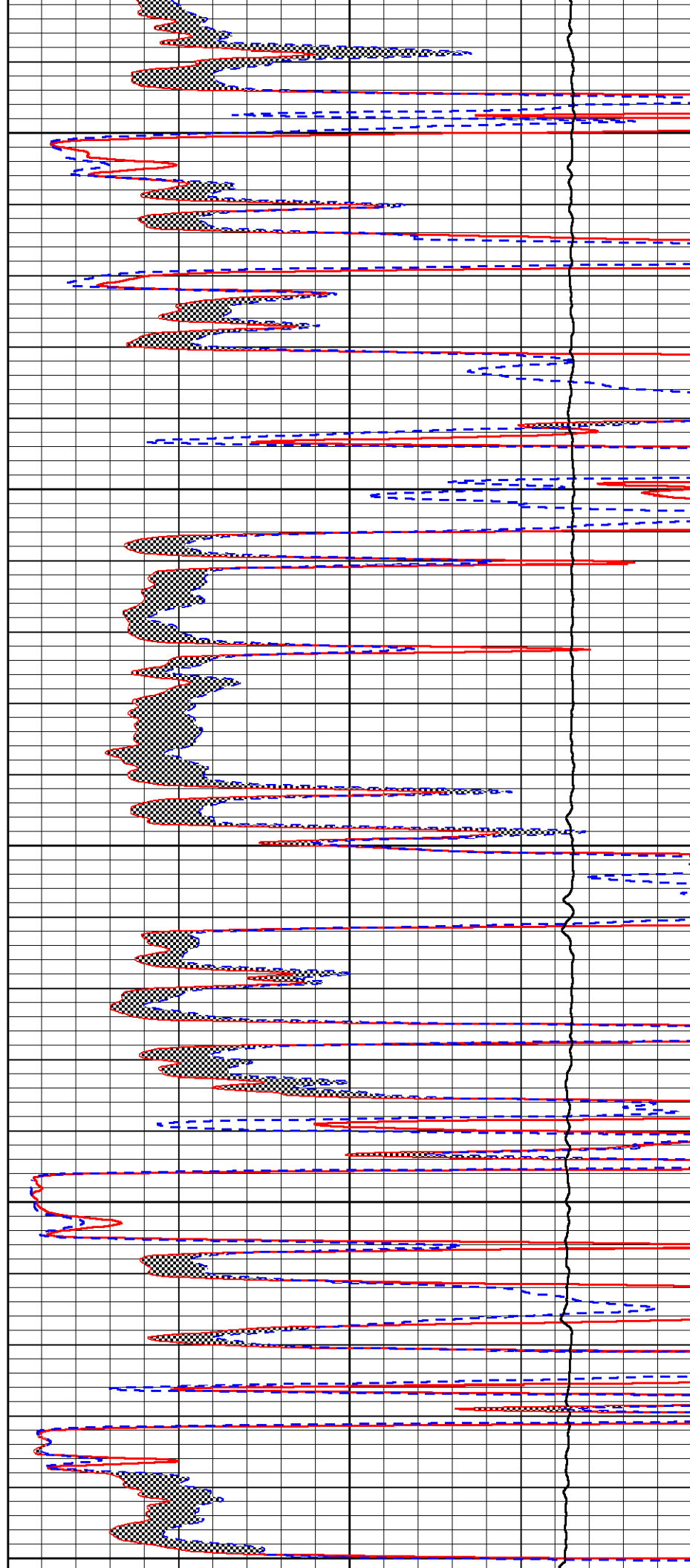
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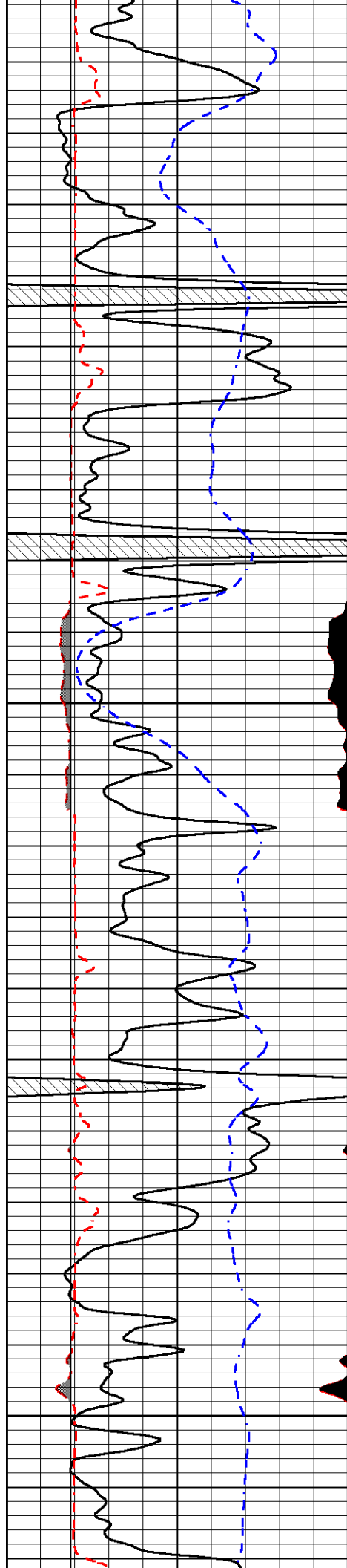
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4100

4150

4200



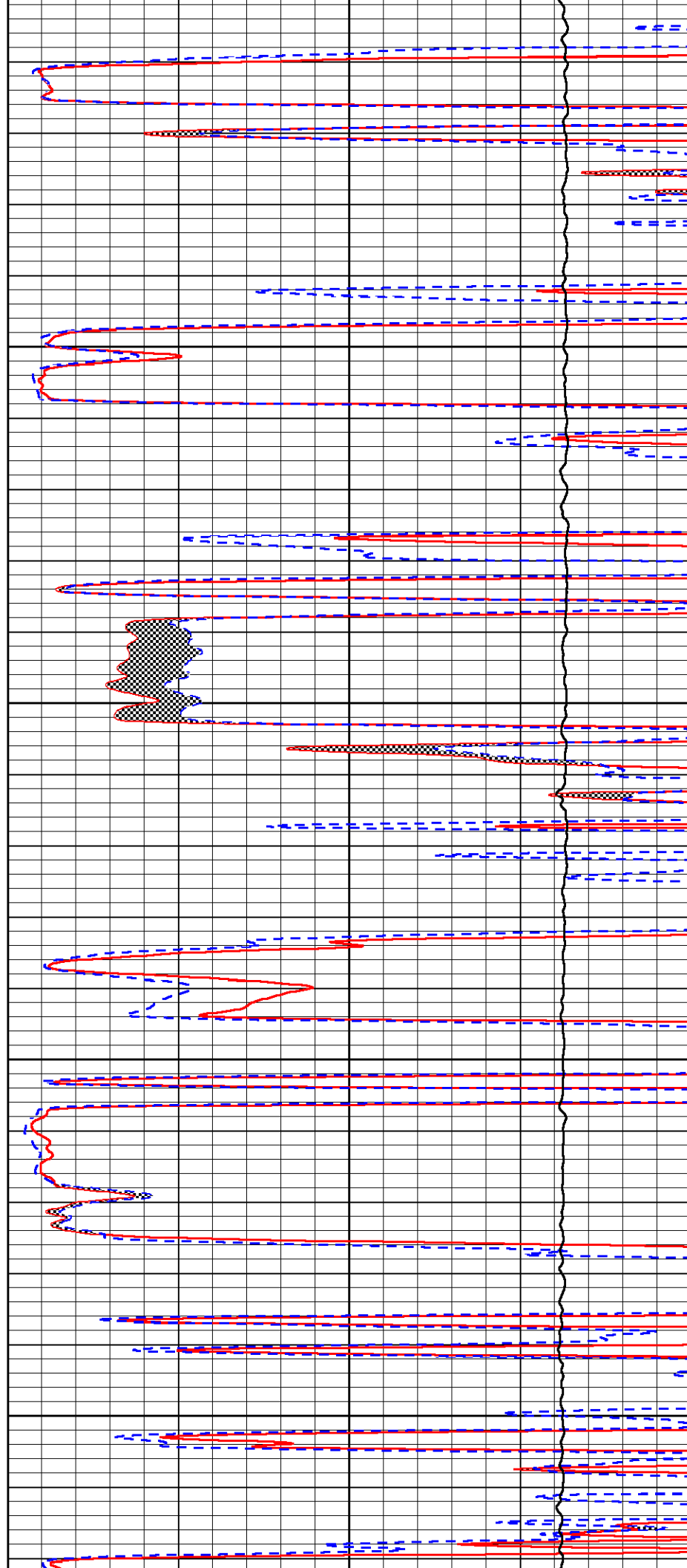


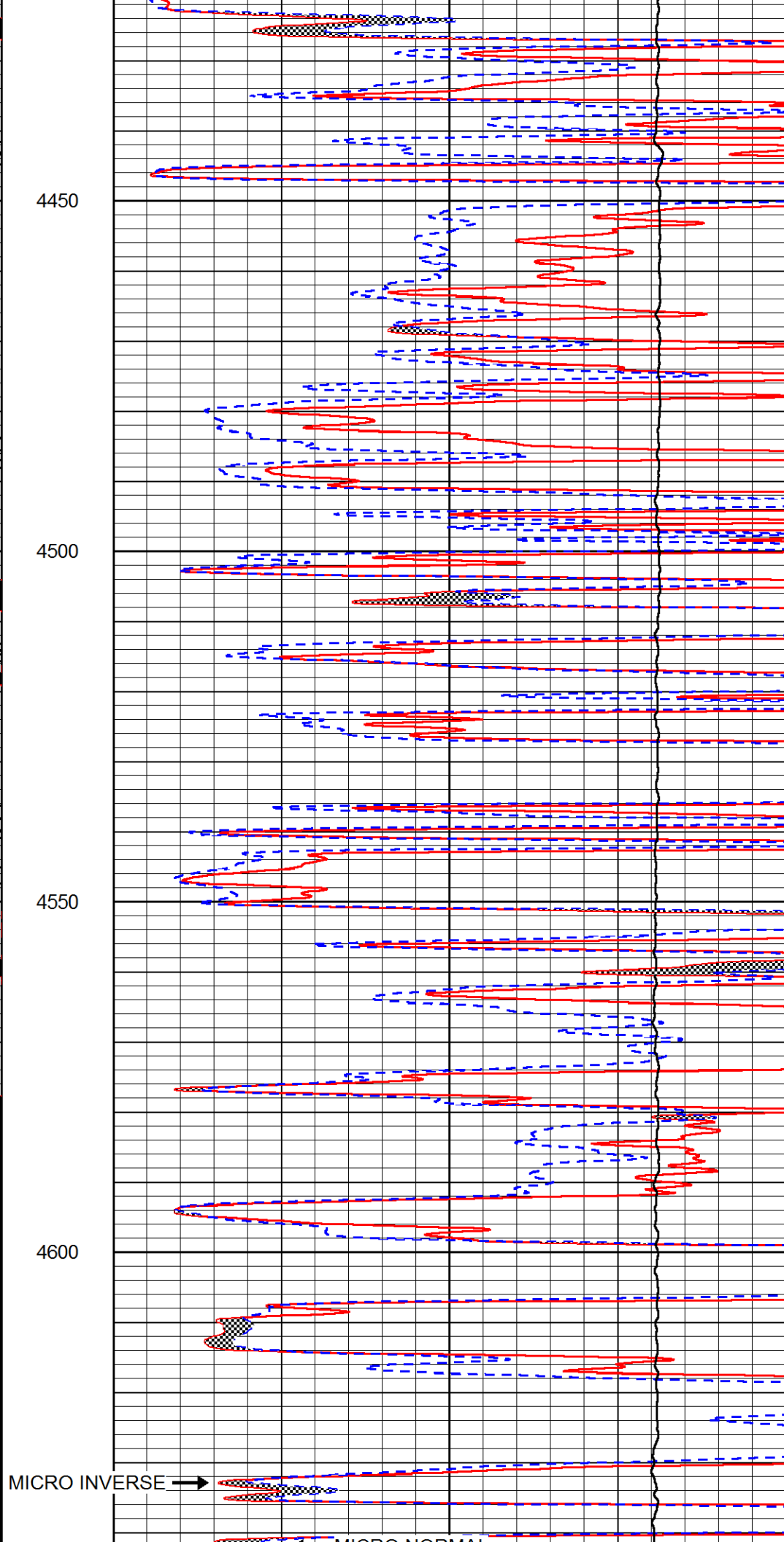
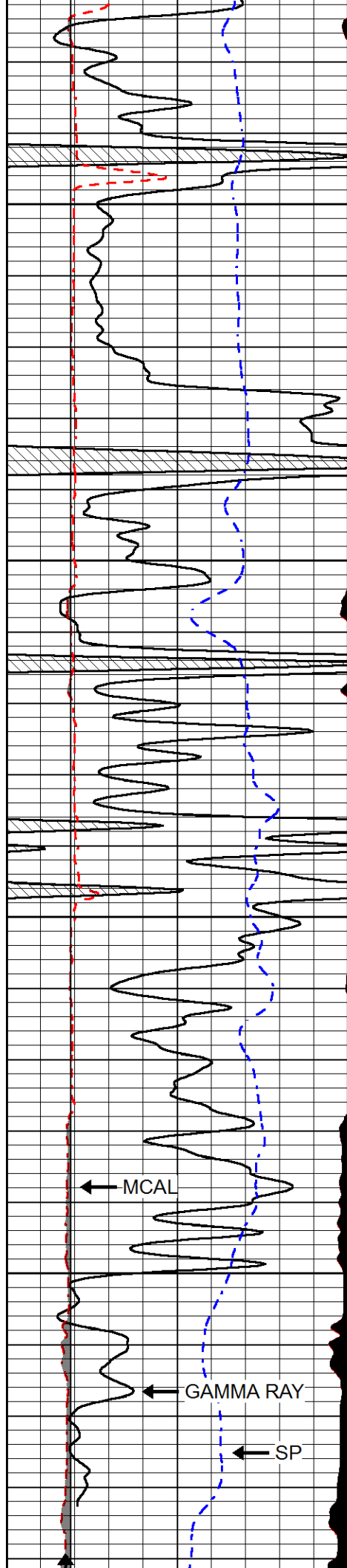
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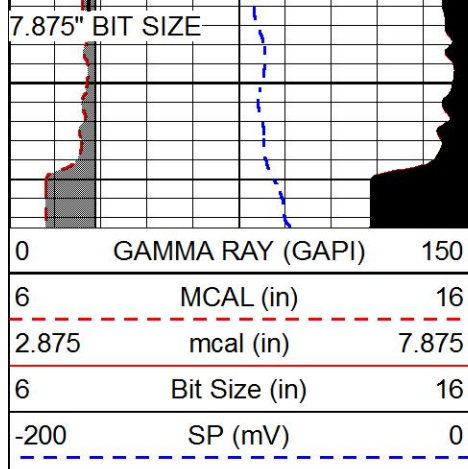
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4350

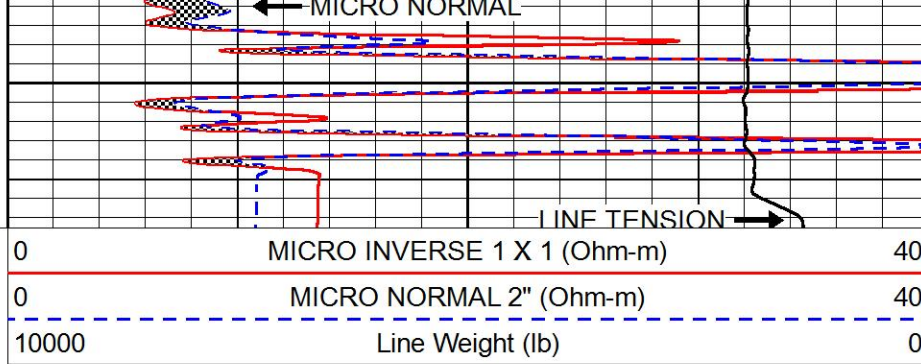
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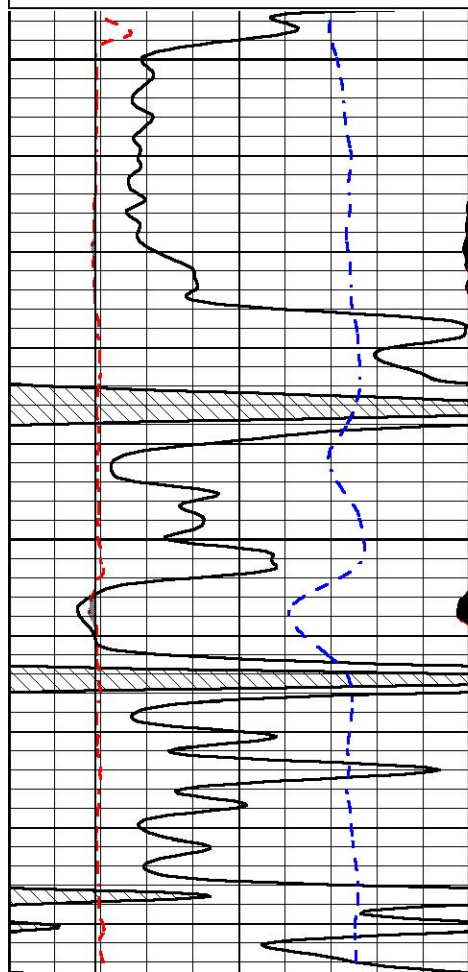
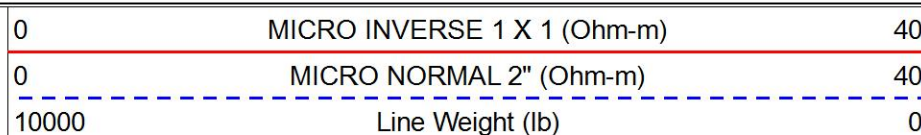
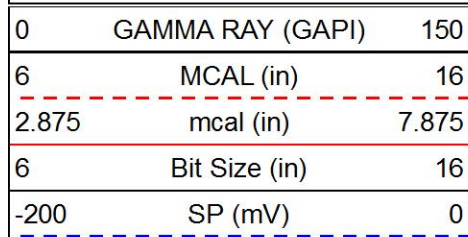


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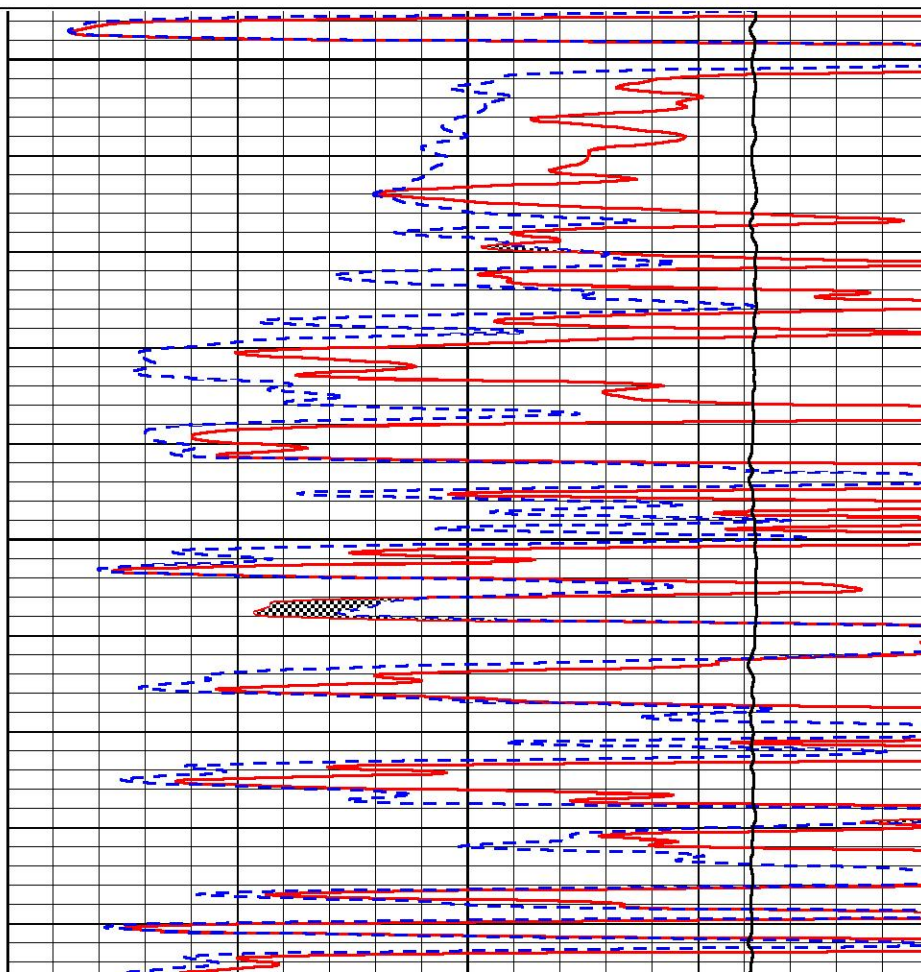
REPEAT SECTION

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass2.3
 Presentation Format micro
 Dataset Creation Sat Aug 25 00:57:37 2018
 Charted by Depth in Feet scaled 1:240



4450

4500



Serial-Model:
Source / Verifier:
Master Calibration Performed:

797-152-M&W
16955B / 2ci
Tue May 01 13:38:28 2018

Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		4933.40		5500.86	cps
Aluminum	2.660	g/cc		928.80		3521.29	cps
Spine Angle = 75.04				Density/Spine Ratio = 0.524			
	Size			Reading			
Small Ring	5.00	in		1.09			
Large Ring	15.00	in		1.03			

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: FRI AUG 24 10:30:30 2018

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: 89
Tool Model: M&W
Calibration Performed: Fri Aug 24 11:16:10 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps

Calibration Report

Database File bluegoose_hineman farms 1.db
Dataset Pathname MEL/pass2
Dataset Creation Sat Aug 25 02:32:18 2018

Microlog Calibration Report

Serial-Model: ARM001-Armadillo
Performed: Fri Jul 14 14:07:44 2017

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0127	0.6730	V	0.0000	10.0000	Ohm-m	25.5000	-2.4000
Inverse	0.0029	0.8729	V	0.0000	10.0000	Ohm-m	22.0000	-1.5000
Caliper	1.1319	8.2966	V	6.0000	19.0000	in	3.0000	1.2750



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Well	HINEMAN FARMS #1
Field	WILDCAT
County	LANE
State	KANSAS