



PIONEER

Pioneer Energy Services

MICRORESISTIVITY LOG

Company **THREE FORKS RESOURCES, LLC**
Well **MAY TRUST #1-30**
Field **WILDCAT**
County **DECATUR**
State **KANSAS**

Company **THREE FORKS RESOURCES, LLC**
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Field **WILDCAT**
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Location: API #: 15-039-21243-00-00

848' FNL & 2126' FWL

SEC 30 TWP 2S RGE 30W

Permanent Datum **GROUND LEVEL** Elevation **2847'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Other Services
CNL/CDL
DIL/BHCS
Elevation
K.B. 2852'
D.F. N/A
G.L. 2847'

Date 9/29/2017

Run Number ONE

Depth Driller 4630'

Depth Logger 4632'

Bottom Logged Interval 4631'

Top Log Interval 3300'

Casing Driller 8.625" @ 260'

Casing Logger 263'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 2400

Density / Viscosity 9.2 60

pH / Fluid Loss 10.5 7.6

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.80 @ 80

Rmf @ Meas. Temp 0.60 @ 80

Rmc @ Meas. Temp 1.08 @ 80

Source of Rmf / Rmc CHARTS

Rm @ BHT 0.52 @ 122

Operating Rig Time 5 HOURS

Max Rec. Temp. F 122

Equipment Number 91

Location HAYS

Recorded By D. SCHMIDT

Witnessed By LAWRENCE WEIS JASON ALM

<<< Fold Here >>>

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.

OBERLIN,
10 WEST TO 100RD, 2 NORTH, 3/4 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

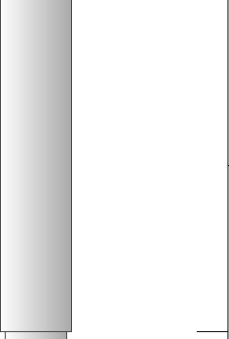
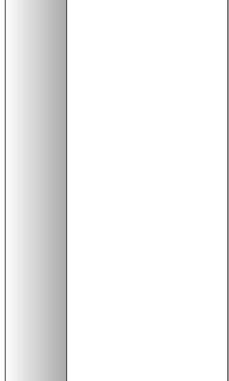
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: LAWRENCE WEIS
Secondary Witness: JASON ALM
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	53	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	0	122	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

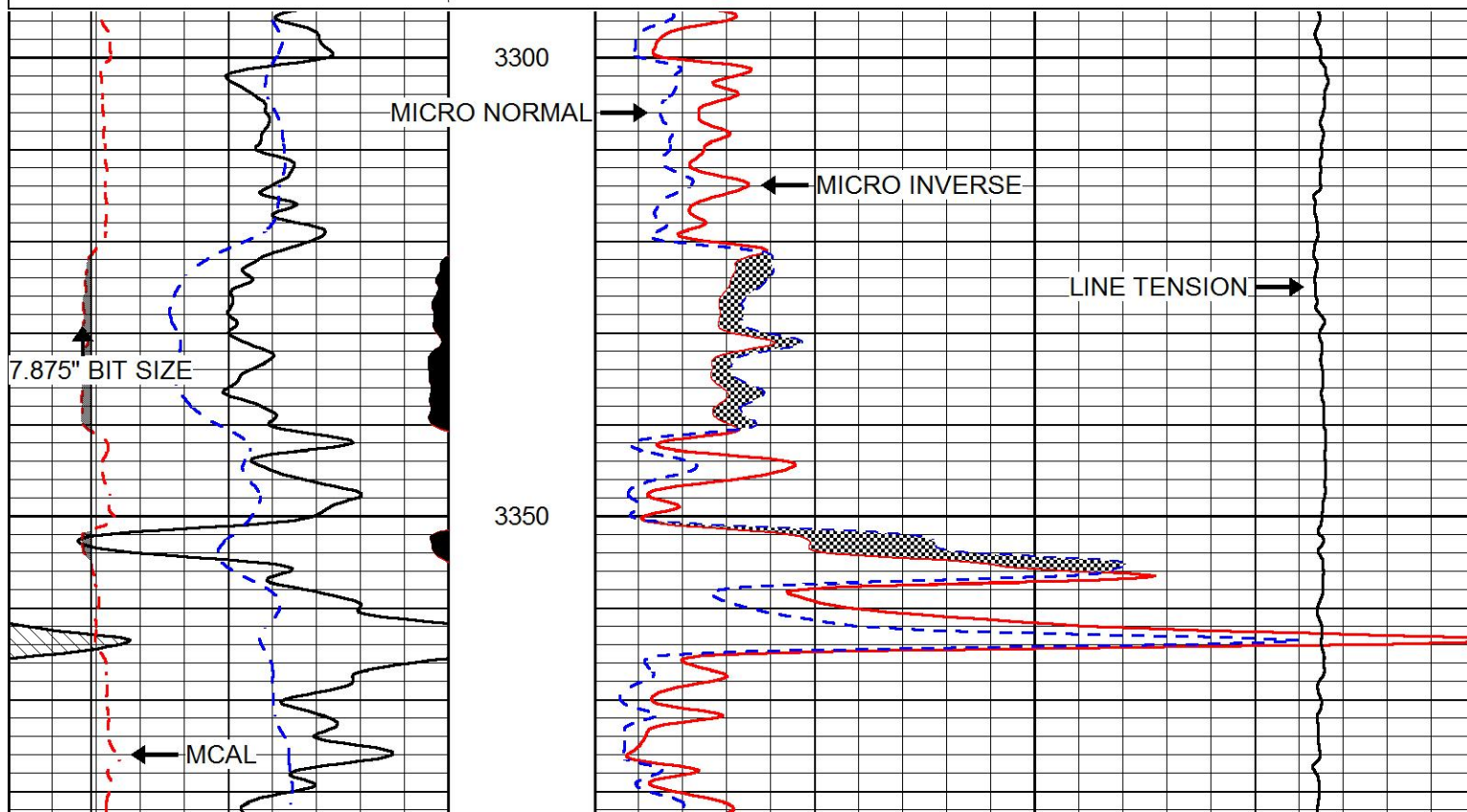
			DIL-M&W (PSI 91)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					
Dataset: three forks_may trust 1-30.db: field/well/STKML/pass3.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in						

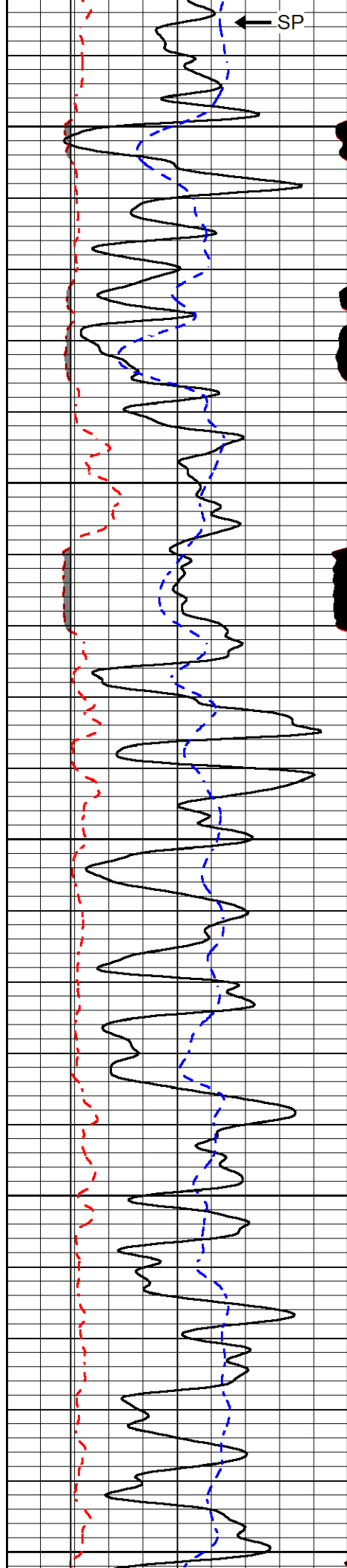


MAIN PASS

Database File	three forks_may trust 1-30.db
Dataset Pathname	STKML/pass3.1
Presentation Format	micro
Dataset Creation	Fri Sep 29 16:49:59 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	MCAL (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mcals (in)	7.875	10000	Line Weight (lb)	0
6	Bit Size (in)	16			
-200	SP (mV)	0			





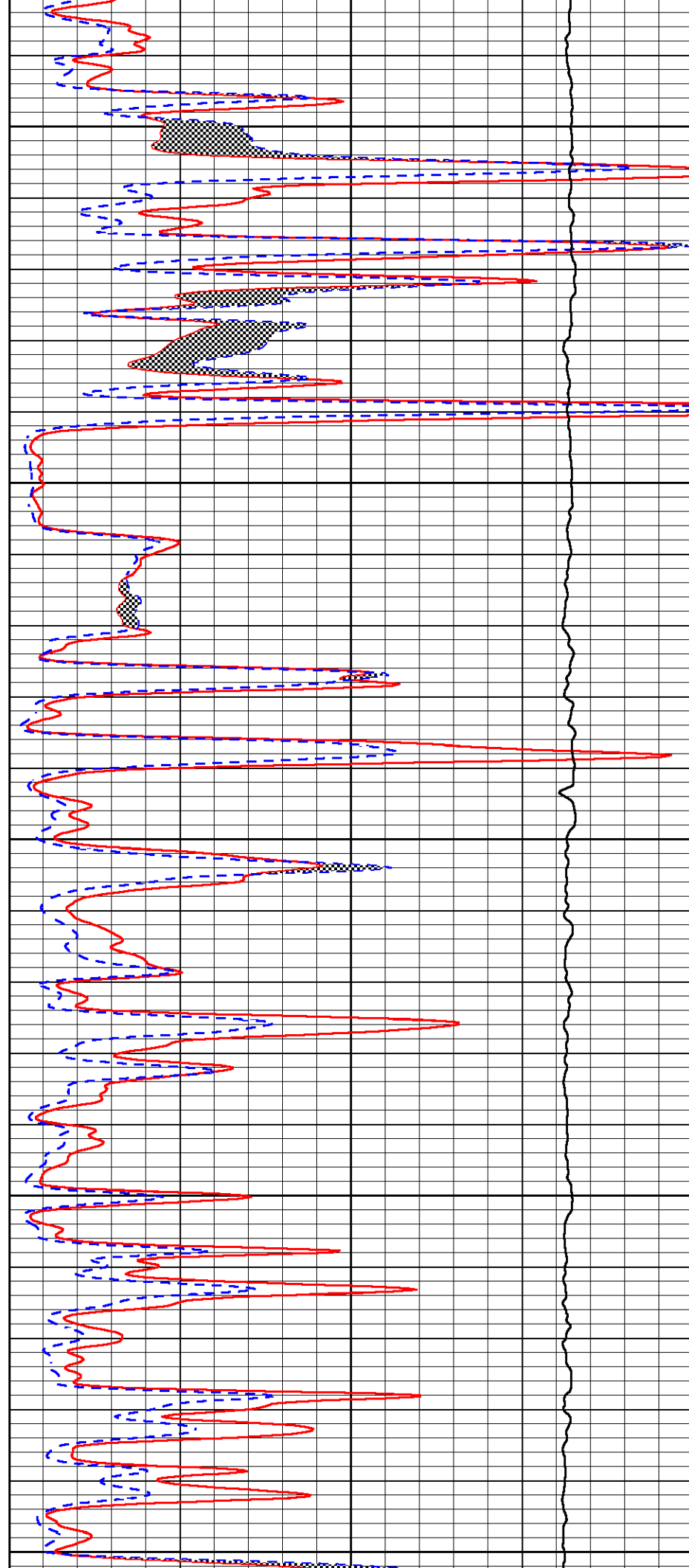
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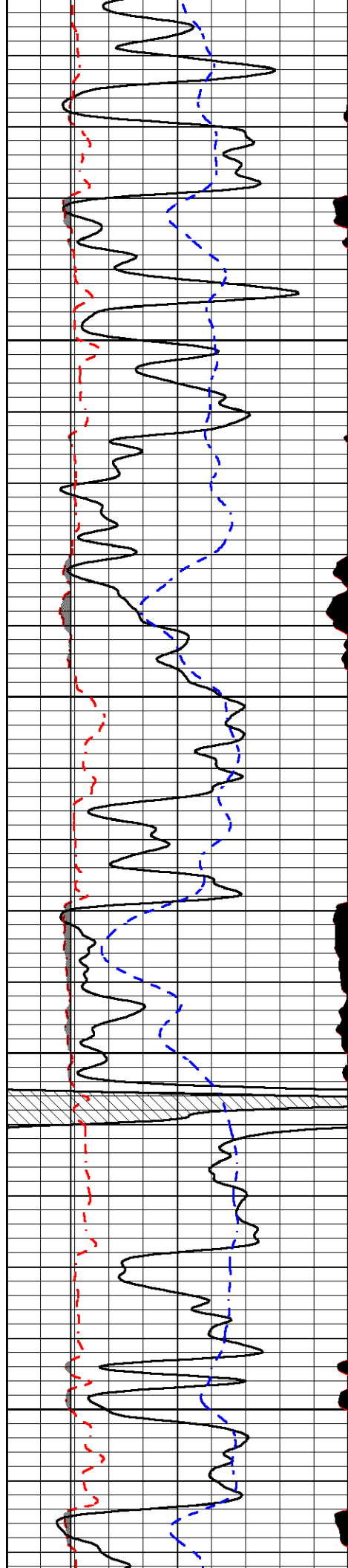
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3600



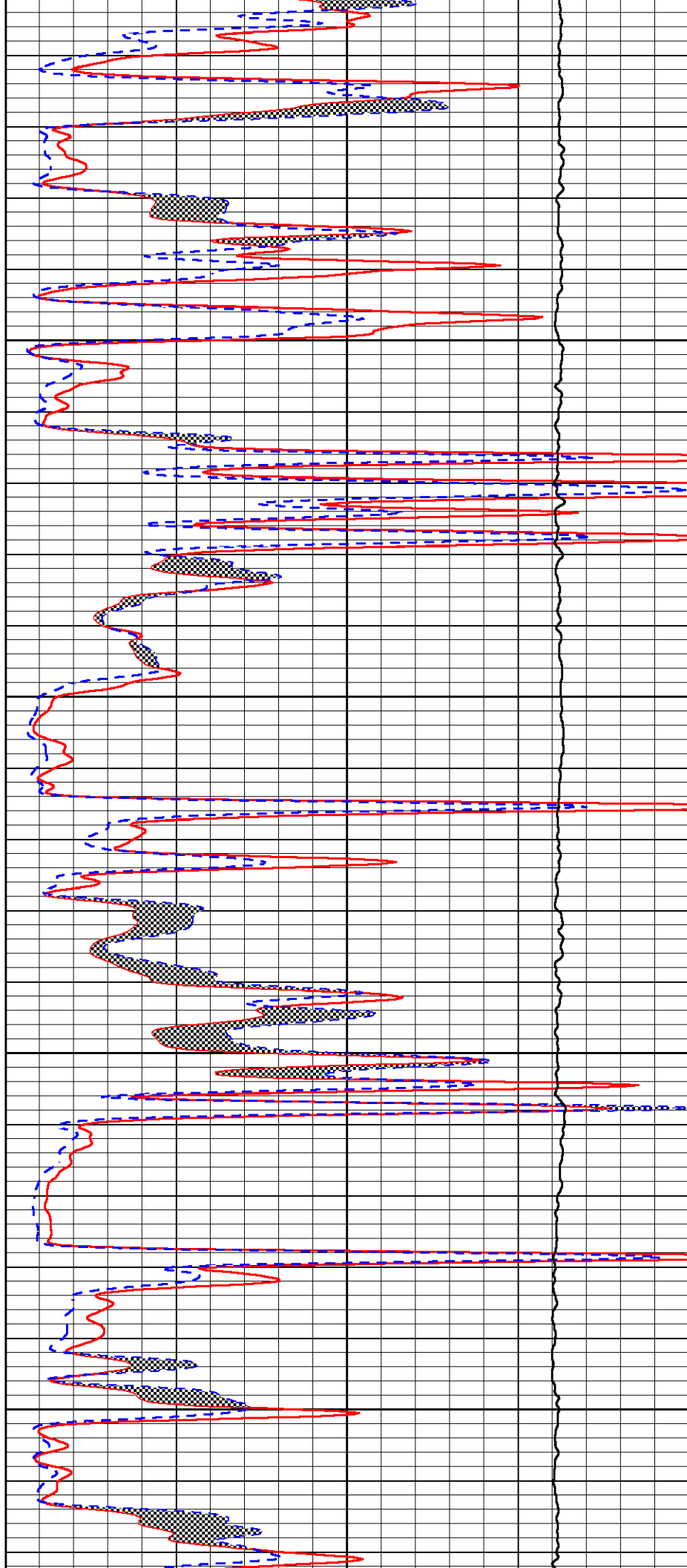


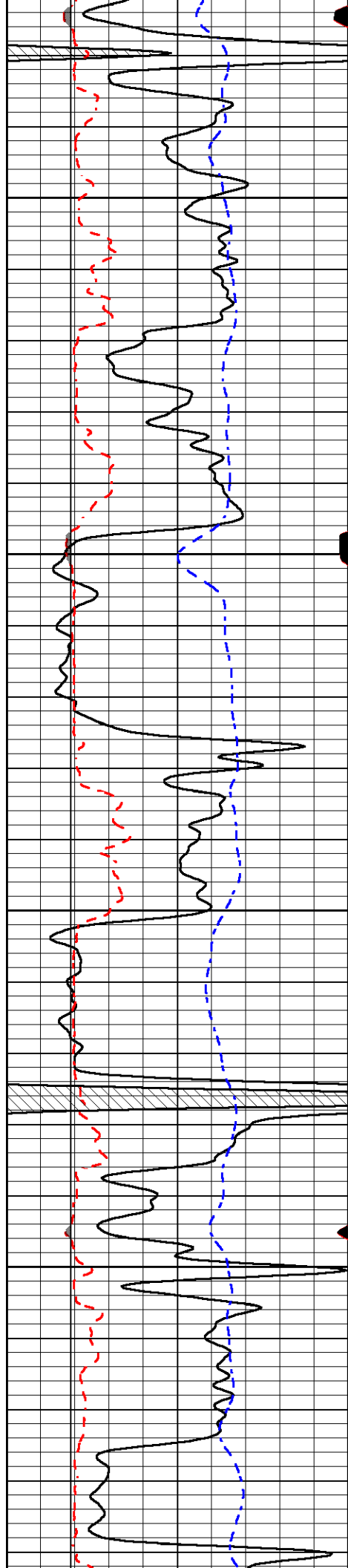
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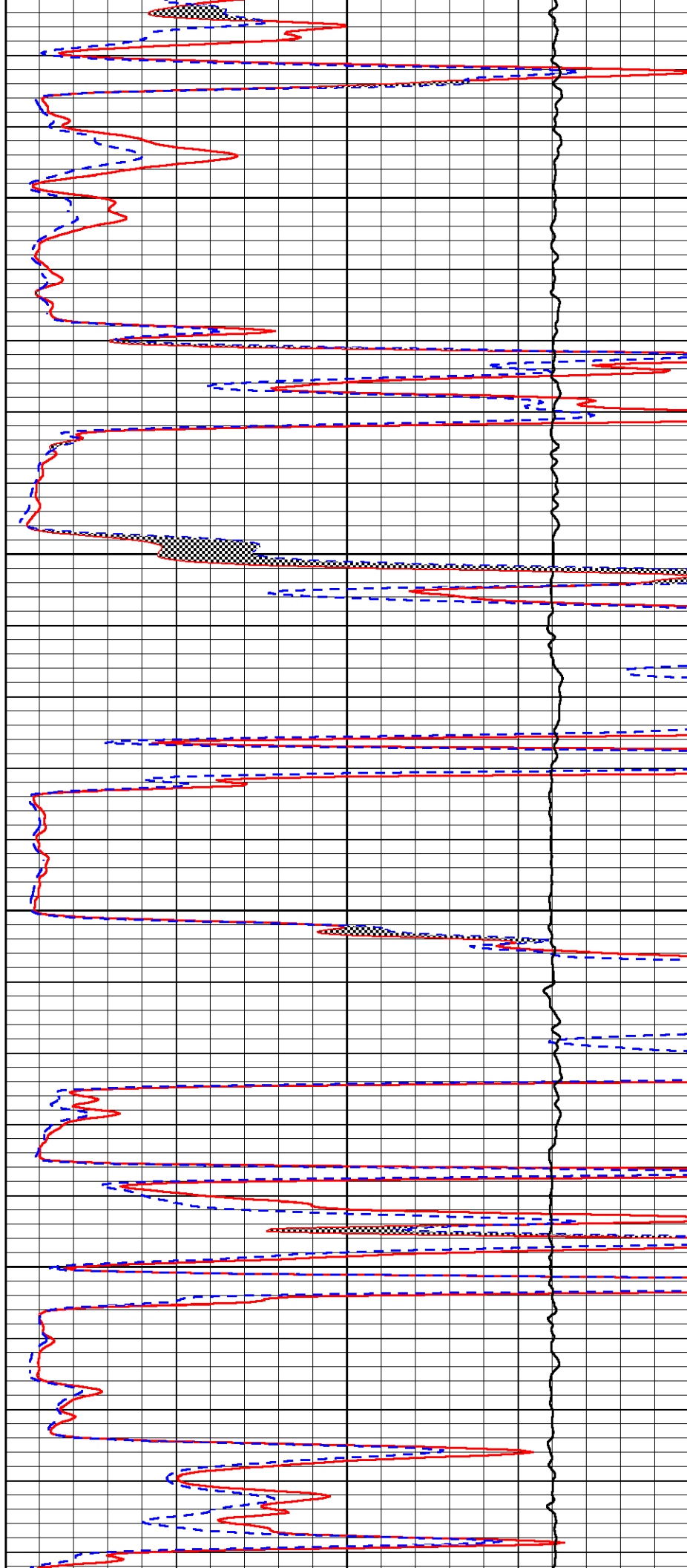


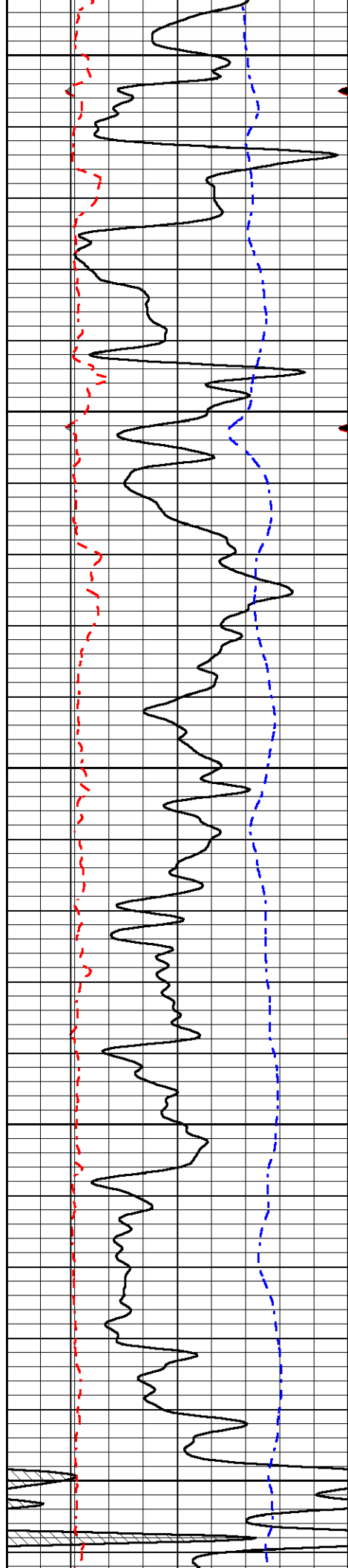
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3950

4000





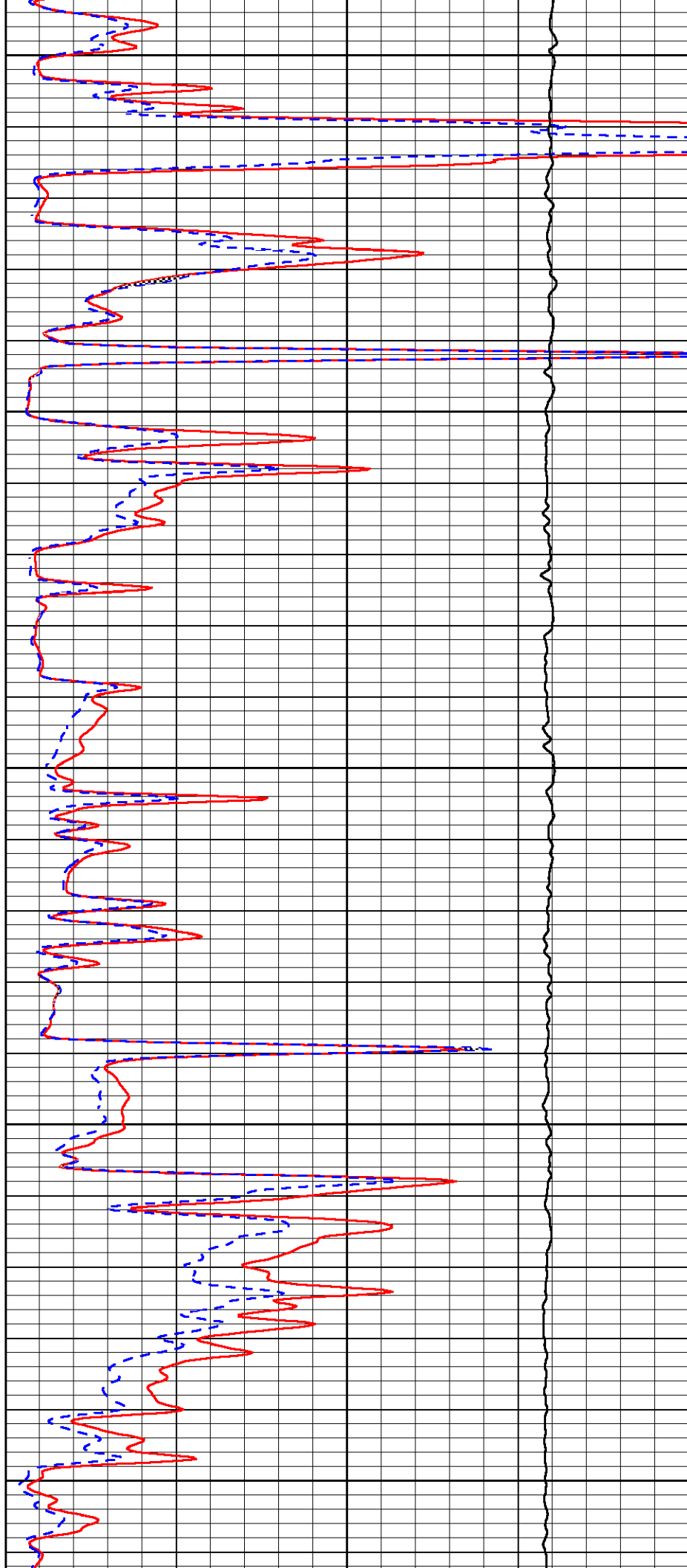
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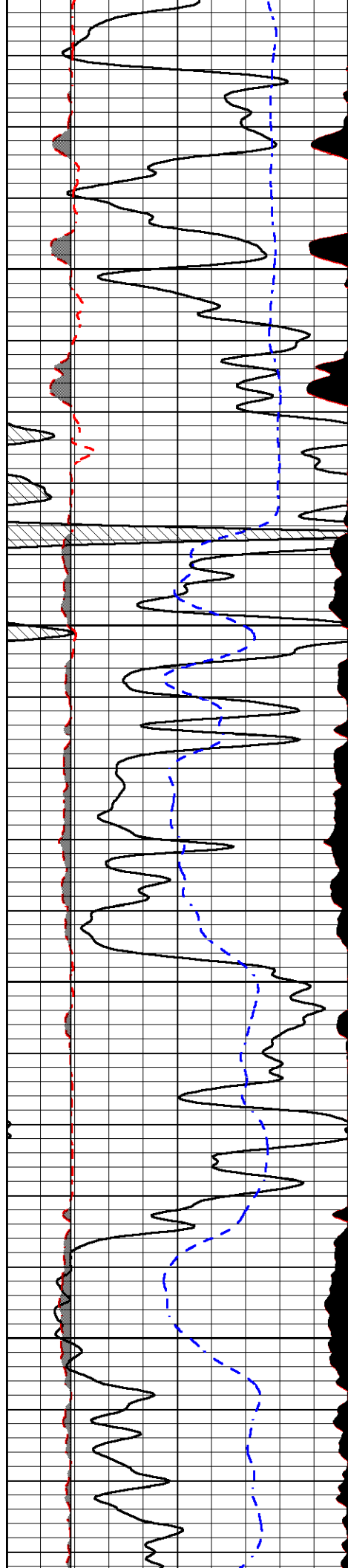
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4150

4200

4250



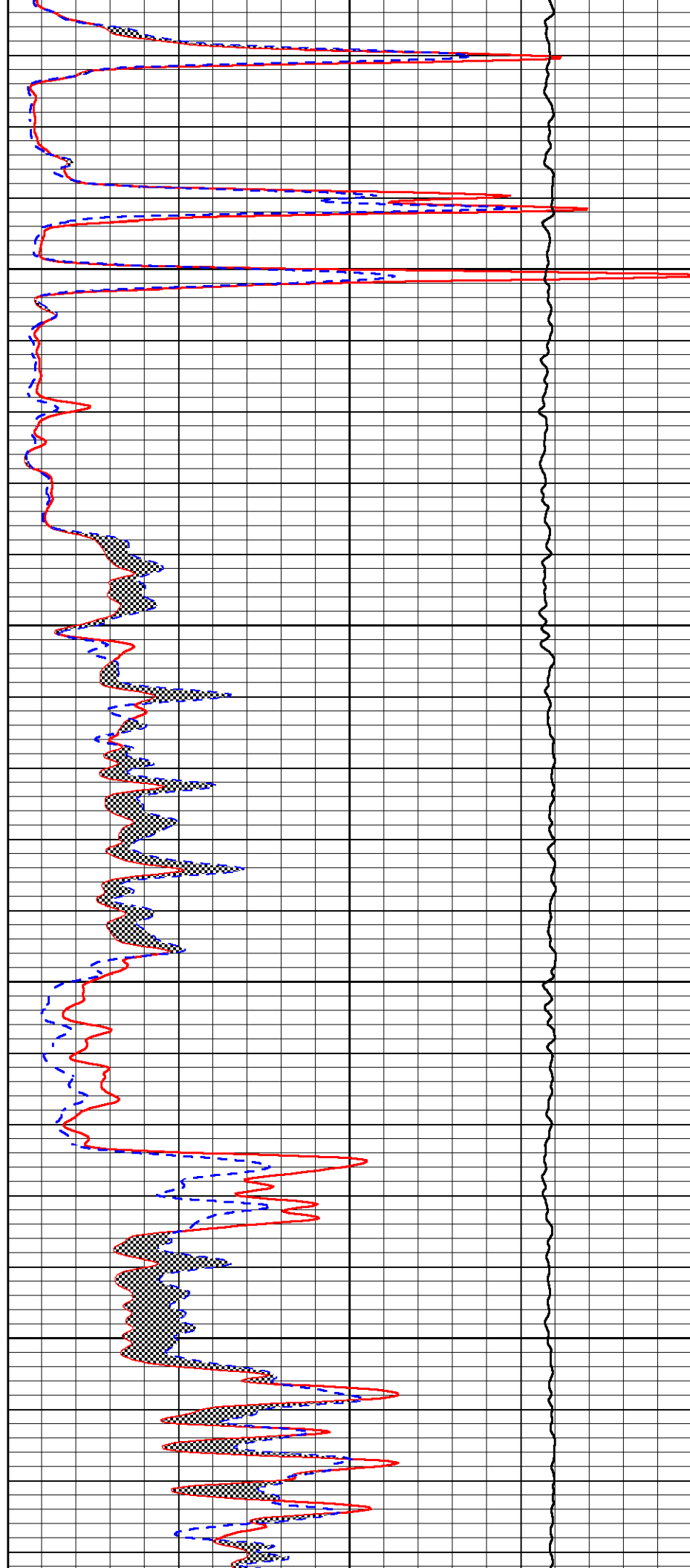


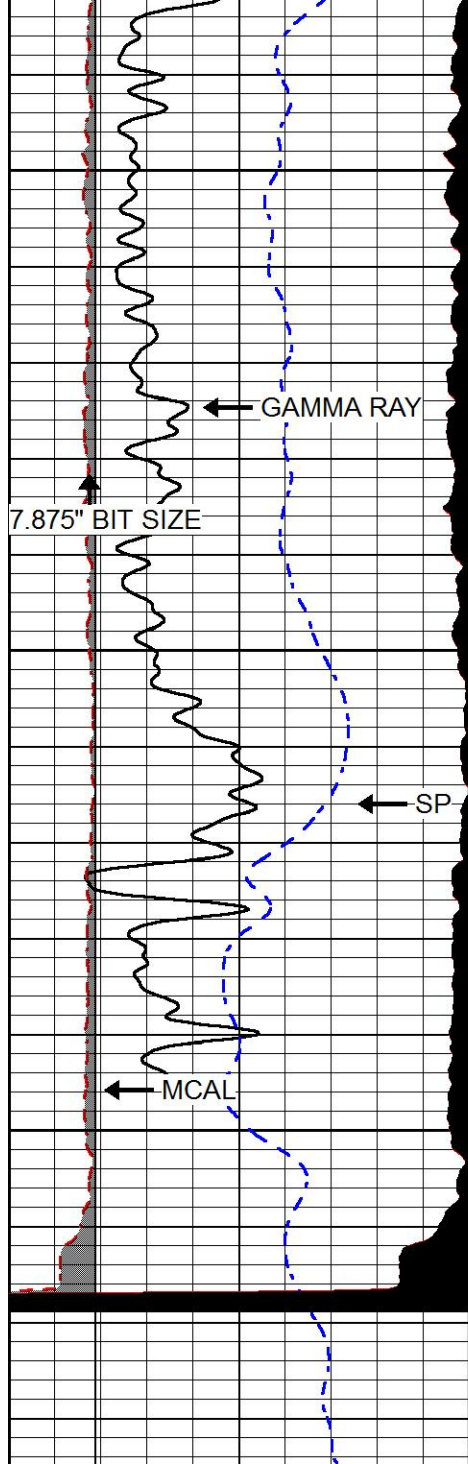
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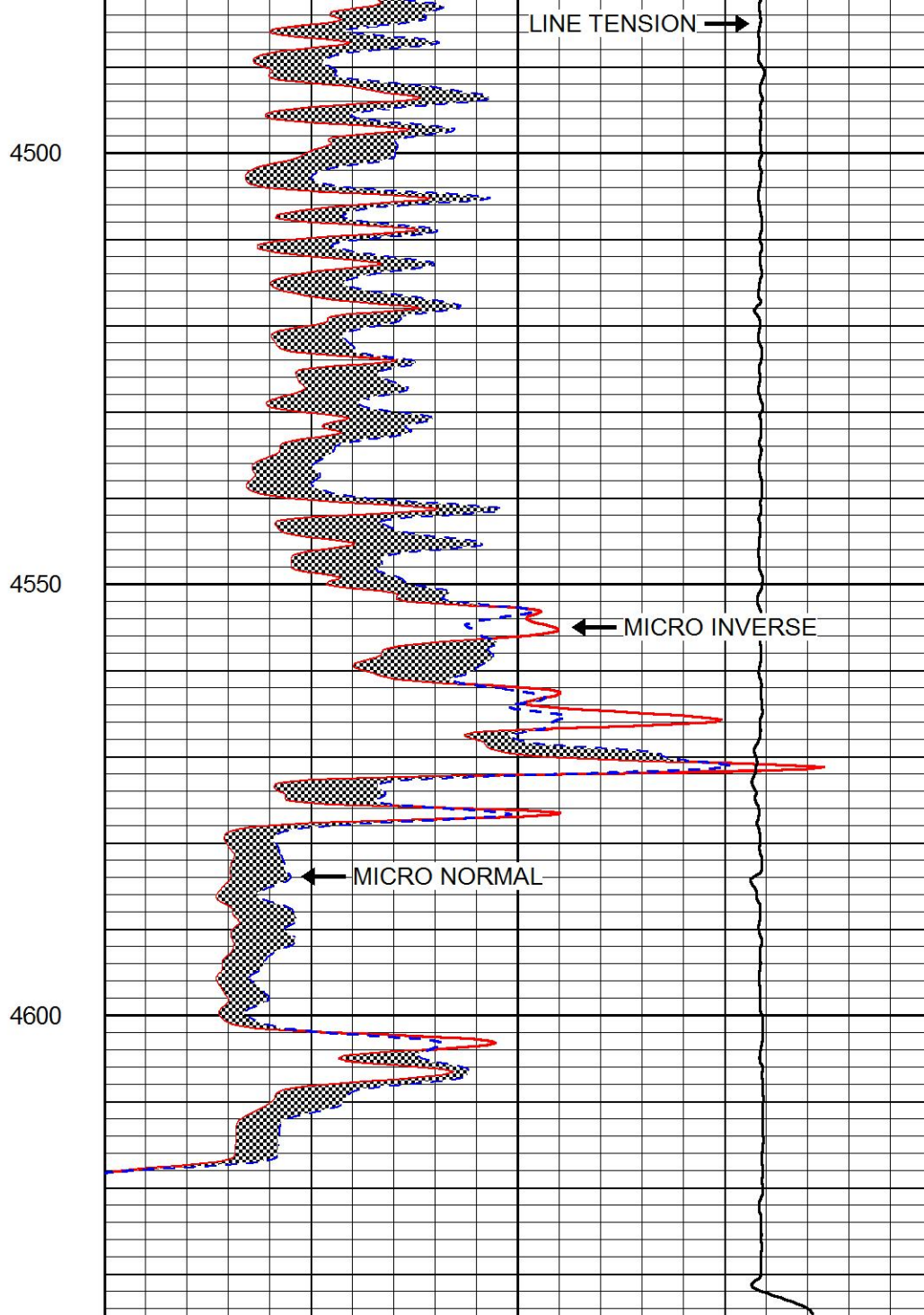
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4450





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

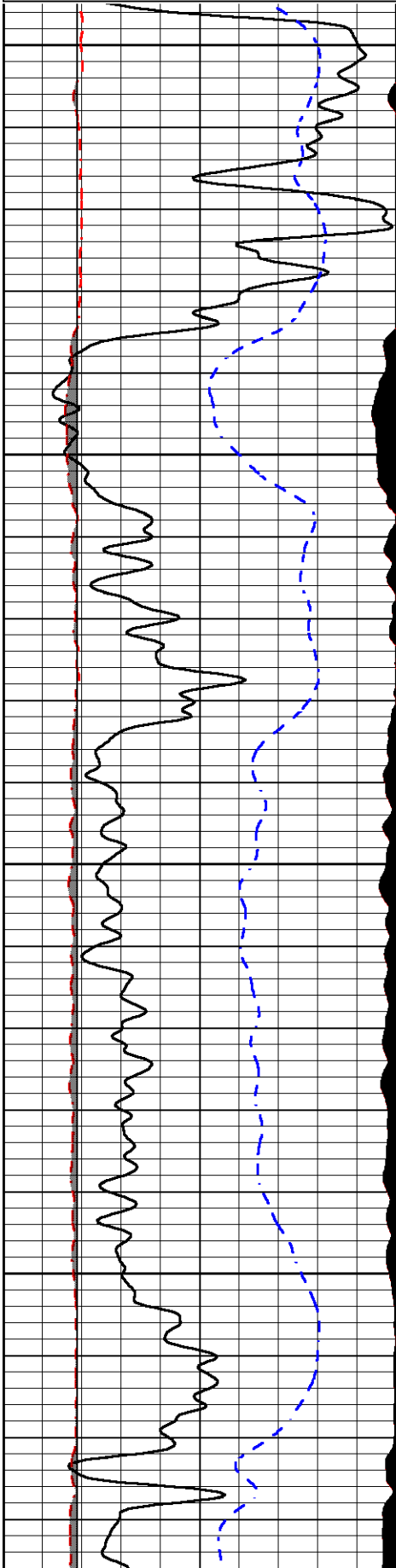


REPEAT SECTION

Database File three forks_may trust 1-30.db
 Dataset Pathname STKML/pass2.1
 Presentation Format micro
 Dataset Creation Fri Sep 29 16:51:43 2017
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcad (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

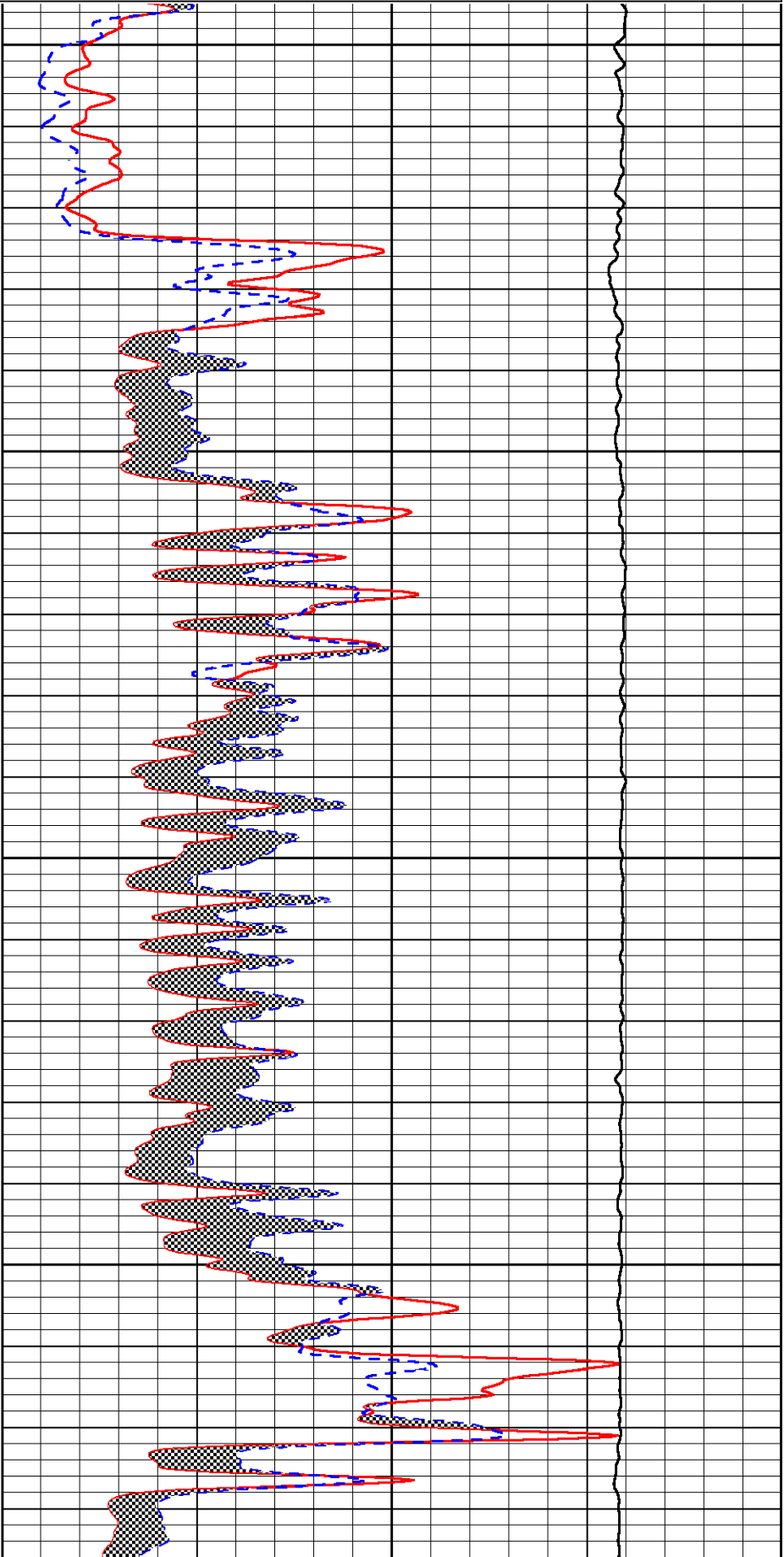


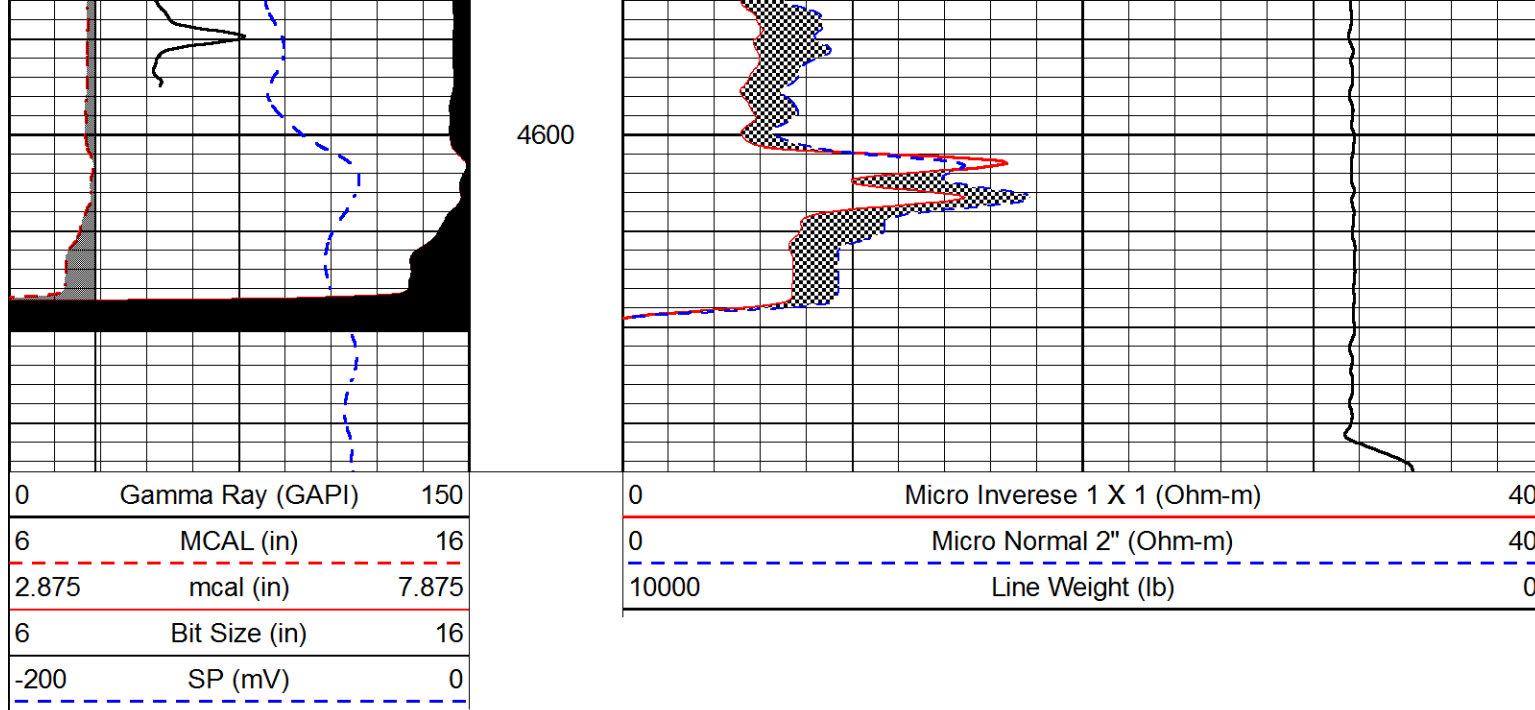
4400

4450

4500

4550





Calibration Report

Database File three forks_may trust 1-30.db
 Dataset Pathname STKML/pass3.1
 Dataset Creation Fri Sep 29 16:49:59 2017

Dual Induction Calibration Report

Serial-Model: PSI 91-M&W
 Calibration Performed: Wed Sep 13 22:23:16 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-34.300
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Wed Sep 06 19:50:56 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	19000.0000	-0.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	23000.0000	-0.5000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.2250

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Wed Sep 06 19:51:03 2017

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		4903.44	6153.79	cps
Aluminum	2.640	g/cc		934.50	4021.31	cps
Spine Angle = 75.61			Density/Spine Ratio = 0.517			
	Size			Reading		
Small Ring	8.00	in		1.84		
Large Ring	22.00	in		1.46		

Compensated Neutron Calibration Report
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Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	WED SEP 6 10:30:30 2017

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:	Wed Sep 06 19:51:14 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

	Company	THREE FORKS RESOURCES, LLC
	Well	MAY TRUST #1-30
	Field	WILDCAT
	County	DECATUR
	State	KANSAS