



MICRORESISTIVITY LOG

Company BRITO OIL COMPANY, INC.
Well FOUR BOYS #1-28
Field WILDCAT
County CHEYENNE **State** KANSAS

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County CHEYENNE
State KANSAS

Location: API #: 15-023-21514-00-00
 2000' FSL & 1320' FWL
 SEC 28 TWP 4S RGE 37W
 Permanent Datum GROUND LEVEL Elevation 3381'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services CNL/CDL DIL
 Elevation K.B. 3386'
 D.F. N/A
 G.L. 3381'

Date	5/24/2019
Run Number	ONE
Depth Driller	5000'
Depth Logger	5000'
Bottom Logged Interval	4999'
Top Log Interval	3900'
Casing Driller	8.625" @ 337'
Casing Logger	336'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2500
Density / Viscosity	9.4 58
pH / Fluid Loss	11.0 6.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.10 @ 68
Rmt @ Meas. Temp	.83 @ 68
Rmc @ Meas. Temp	1.49 @ 68
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.59 @ 126
Operating Rig Time	2 HOURS
Max Rec. Temp. F	126 DEGF
Equipment Number	P-108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	BRAD RINE

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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.

BIRD CITY KANSAS
EAST TO 31 ROAD, 6 SOPUTH, EAST INTO

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

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

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: BRAD RINE
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (144-84)	8.50	4.00	250.00
ML-PSI STKBL ML (PSI-01) Stackable Microlog Tools	7.58		4.00	65.00		
MCAL MI MN	19.83 19.83 19.83					
RLL3 RLL3F	15.80 15.79					
DIL-M&W (PSI 988)	18.50		3.50	220.00		
CILD	8.00					
CILM	4.70					
SP	0.20					

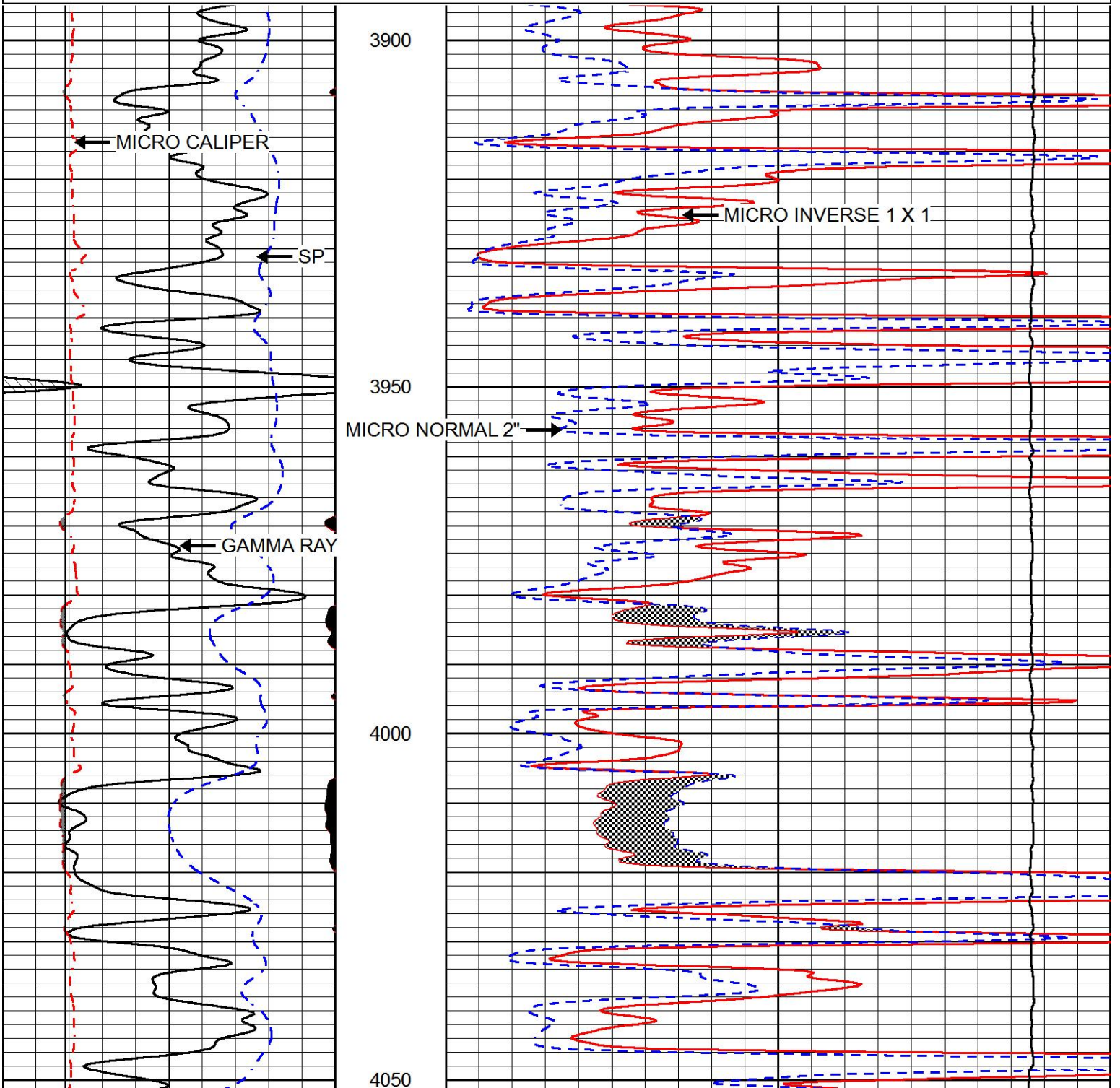
Dataset: brito_four_boys_1_28.db: field/well/stackmic/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

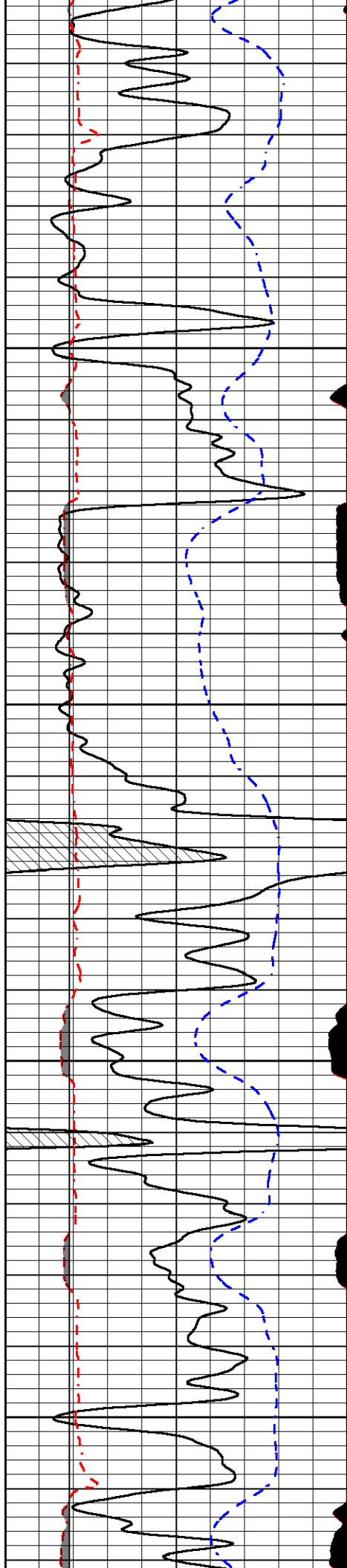
MAIN PASS

Database File brito_four_boys_1_28.db
 Dataset Pathname stackmic/pass3.1
 Presentation Format micro
 Dataset Creation Fri May 24 03:27:13 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
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
15000	LINE TENSION (lb)	0



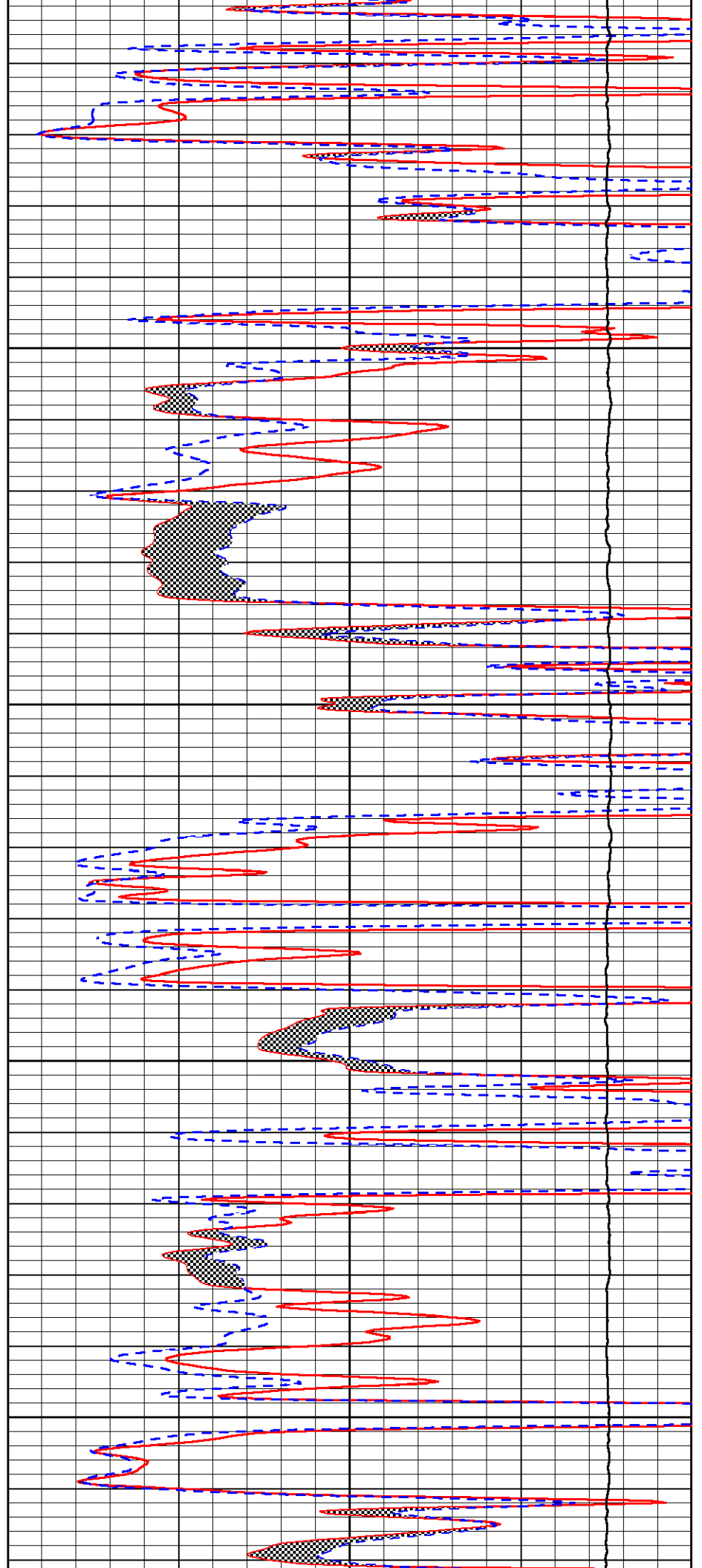


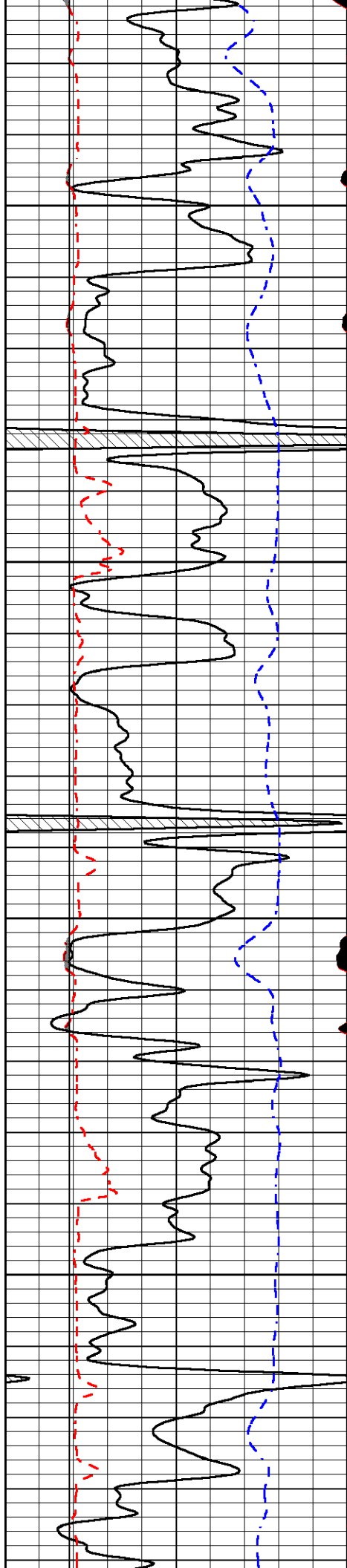
4100

4150

4200

4250



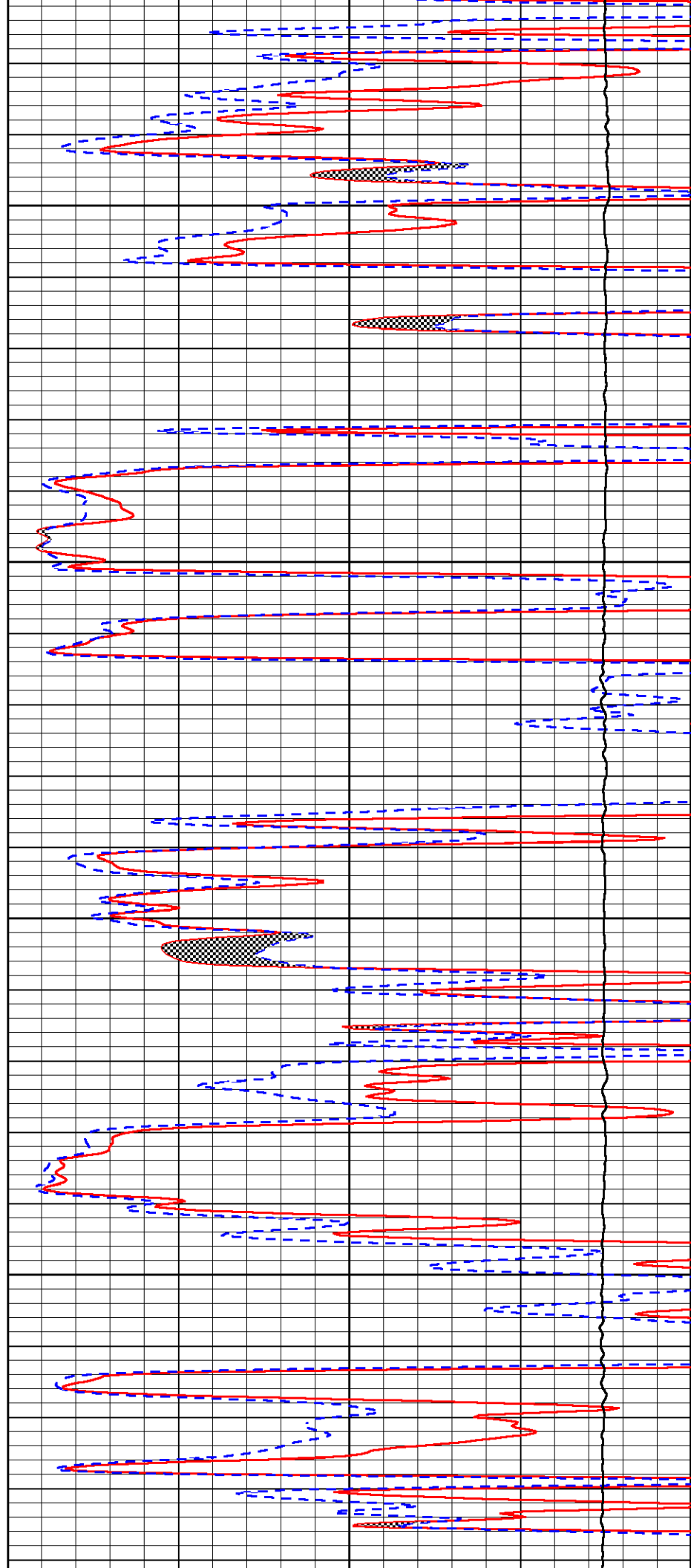


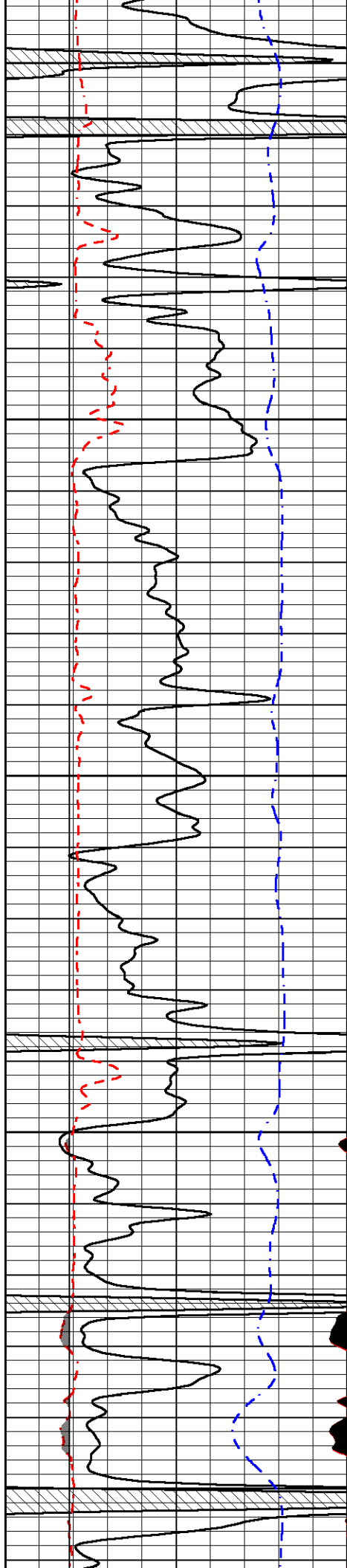
4300

4350

4400

4450





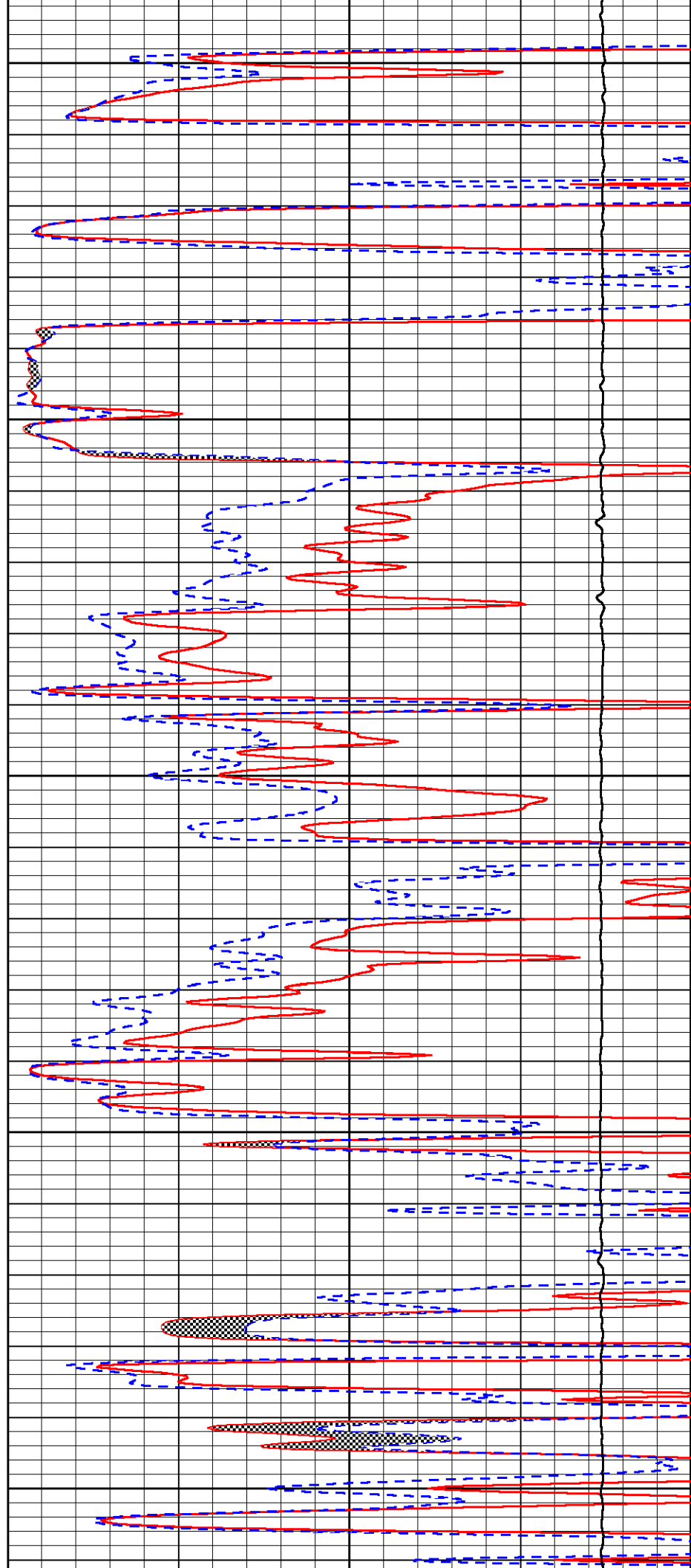
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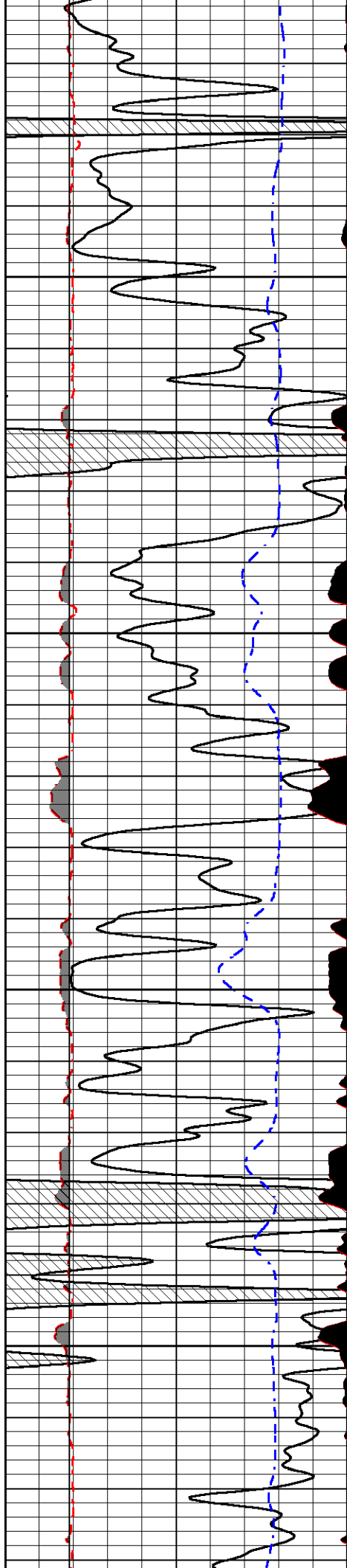
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4600

4650

4700



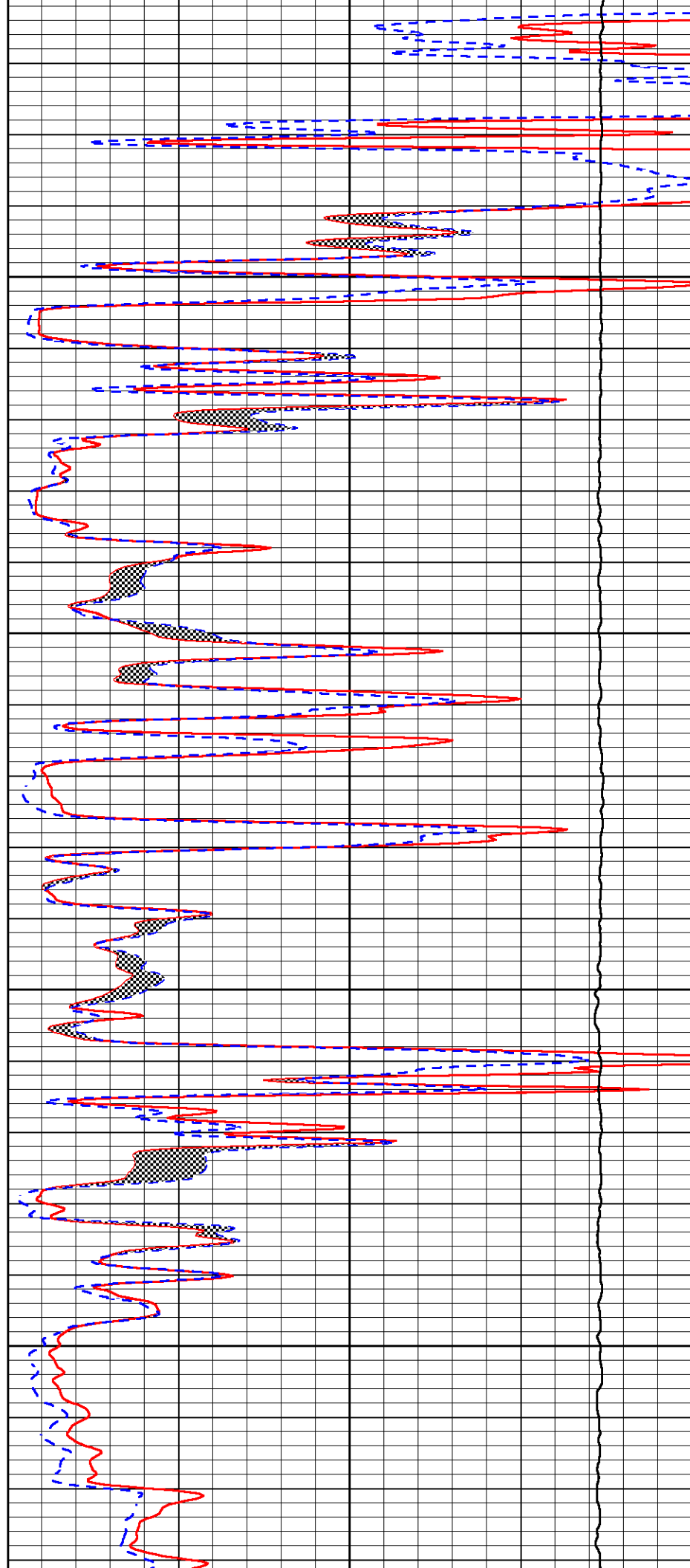


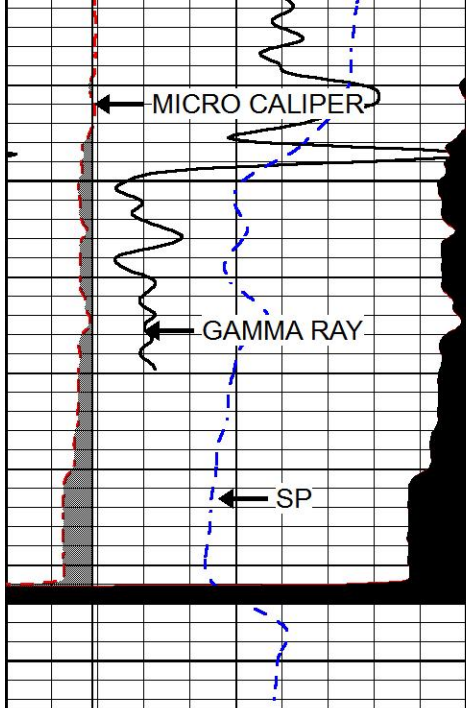
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4800

4850

4900

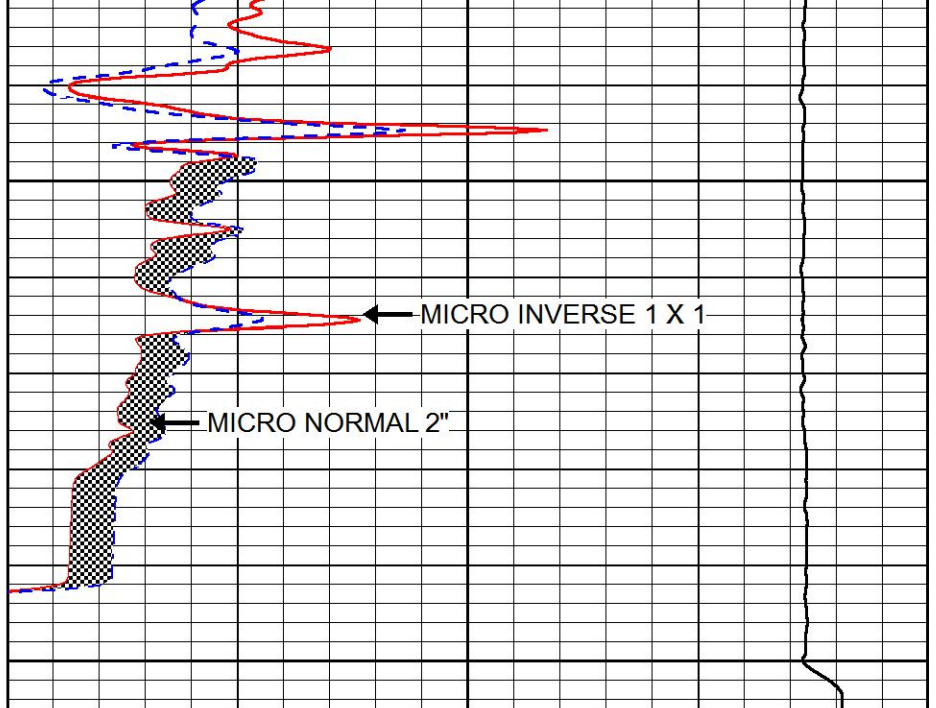




4950

5000

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0



MICRO INVERSE 1 X 1

MICRO NORMAL 2"

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

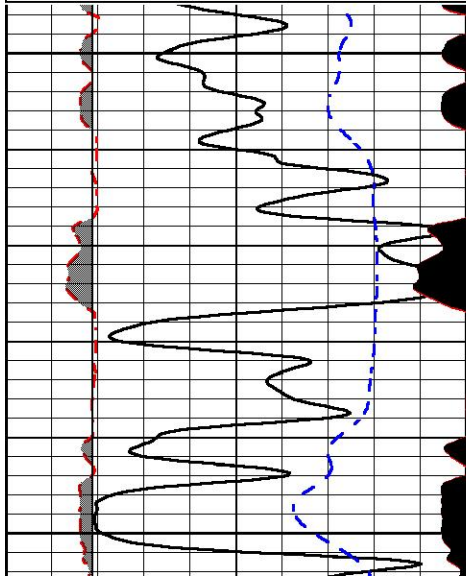


REPEAT SECTION

Database File brito_four_boys_1_28.db
 Dataset Pathname stackmic/pass2.1
 Presentation Format micro
 Dataset Creation Fri May 24 02:33:56 2019
 Charted by Depth in Feet scaled 1:240

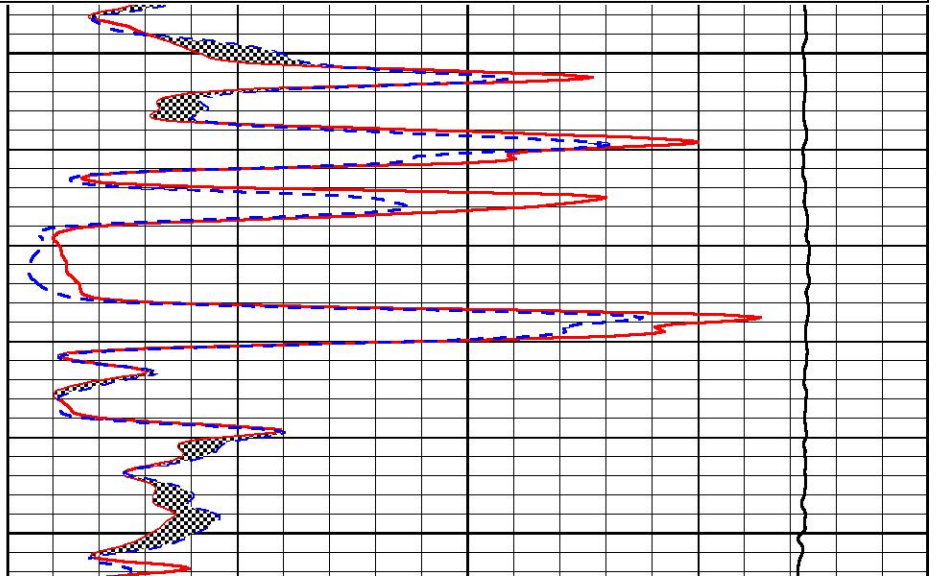
0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

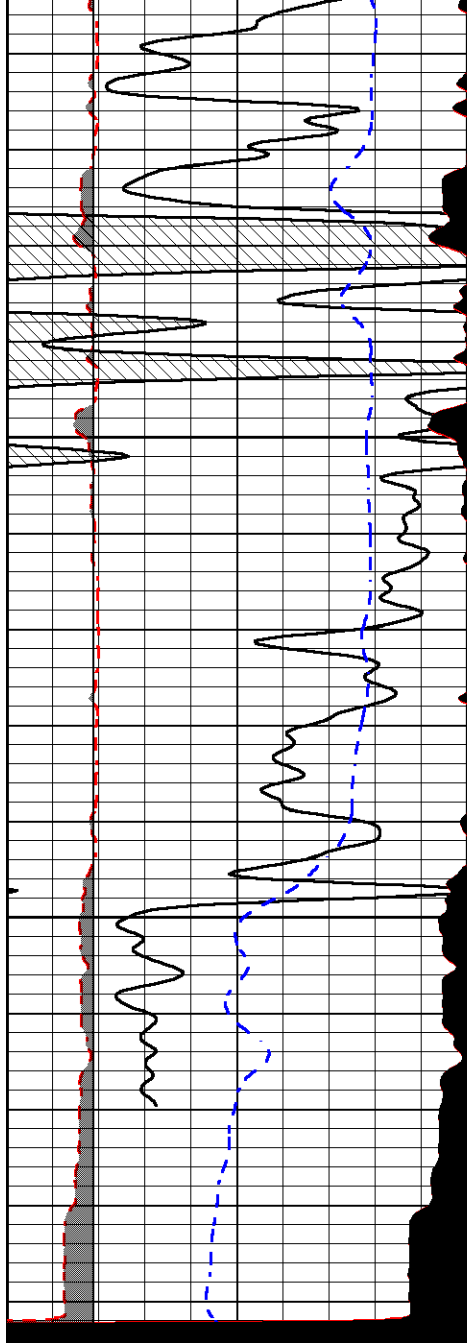
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



4800

4850



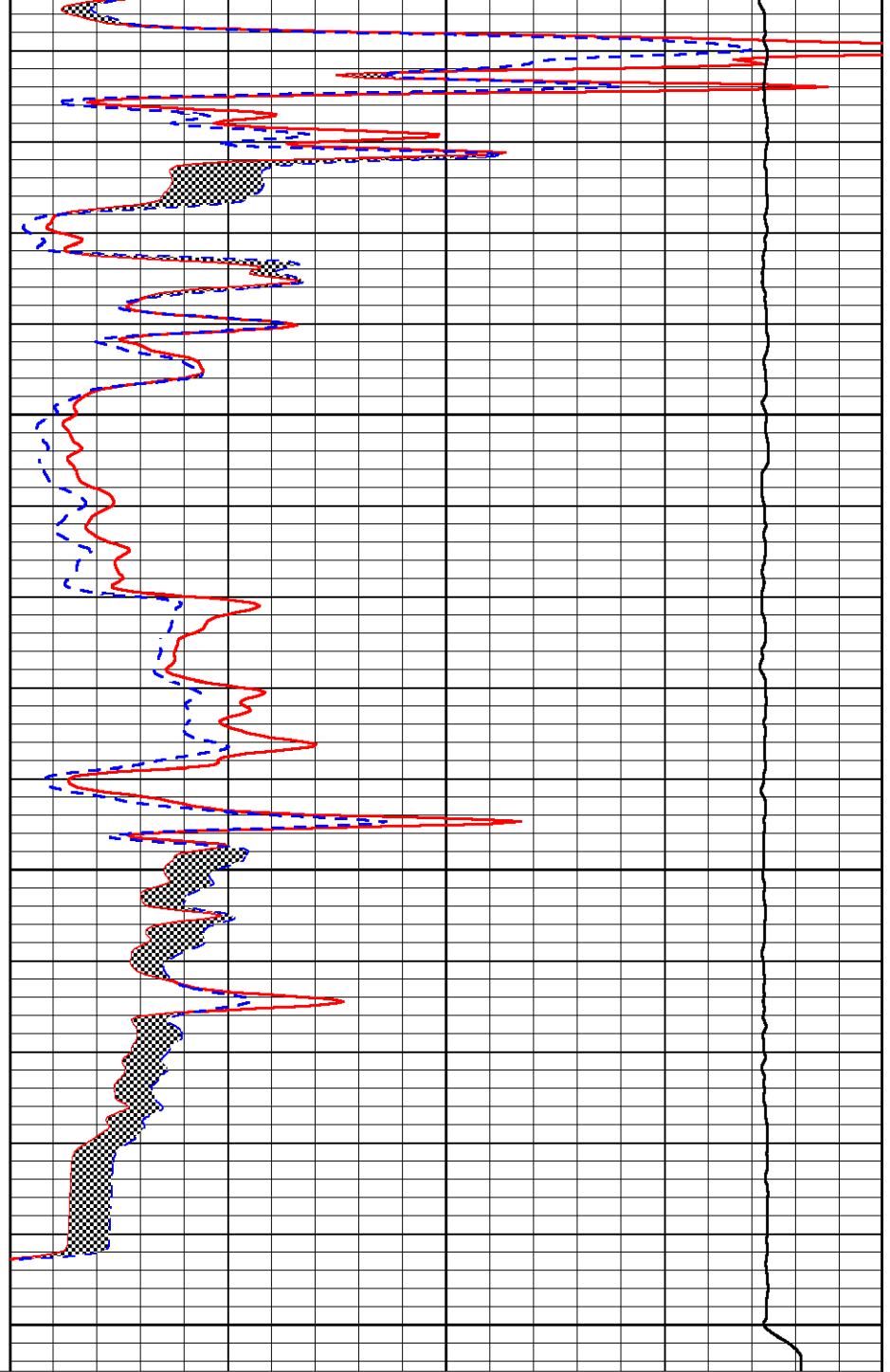


4900

4950

5000

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
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
15000	LINE TENSION (lb)	0

Calibration Report

Database File brito_four_boys_1_28.db
 Dataset Pathname stackmic/pass3.1
 Dataset Creation Fri May 24 03:27:13 2019

Dual Induction Calibration Report

Serial-Model: PSI 988-M&W
 Calibration Performed: Tue Nov 20 10:50:19 2018

Readings

References

Results

Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.525	-44.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.380	-17.000

Microlog Calibration Report

Serial-Model: PSI-01-PSI STKBL ML
 Performed: Thu Mar 31 18:14:32 2016

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	52500.0000	-4.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	59500.0000	-3.0000
Caliper	1.0001	1.1397	6.5000	18.5000	in	86.0000	-82.3000

Compensated Density Calibration Report

Serial-Model: 144-84-M&W
 Source / Verifier: /
 Master Calibration Performed: Mon Jan 07 15:00:31 2019

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4315.49	5309.89	cps
Aluminum	2.690	g/cc	825.26	3443.46	cps

Spine Angle = 75.33 Density/Spine Ratio = 0.547

	Size	Reading
Small Ring	4.00 in	0.69
Large Ring	14.00 in	0.04

Compensated Neutron Calibration Report

Serial Number: tk10-MW
 Tool Model: M&W
 Calibration Performed: Wed Nov 16 11:21:36 2016

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-M&W
 Tool Model: M&W
 Calibration Performed: Tue Apr 11 17:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



PIONEER

Pioneer Energy Services

Company	BRITO OIL COMPANY, INC.
Well	FOUR BOYS #1-28
Field	WILDCAT
County	CHEYENNE
State	KANSAS