



DUAL COMP POROSITY LOG

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

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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
 DIL
 MEL
 Elevation
 K.B. 3386'
 D.F. N/A
 G.L. 3381'

Date	5/24/2019	
Run Number	ONE	
Type Log	CNL/CDL	
Depth Driller	5000'	
Depth Logger	5000'	
Bottom Logged Interval	4972'	
Top Logged Interval	3900'	
Type Fluid In Hole	CHEMICAL	
Salinity, PPM CL	2500	
Density	9.4	
Level	FULL	
Max. Rec. Temp. F	126 DEG/F	
Operating Rig Time	2 HOURS	
Equipment -- Location	P-108 HAYS	
Recorded By	J. HENRICKSON	
Witnessed By	BRAD RINE	

Borehole Record			Casing Record				
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	337'	8.625"	23#	0	337'
TWO	7.875"	337'					

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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

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www.pioneerenergy.com 785-625-3858

<p style="text-align: center;">Your Pioneer Energy Services Crew</p> <p>Engineer: J. HENRICKSON Operator: Operator: Operator:</p>	<p style="text-align: center;">This Log Record Was Witnessed By</p> <p>Primary Witness: BRAD RINE Secondary Witness: Secondary Witness: Secondary Witness:</p>
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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					

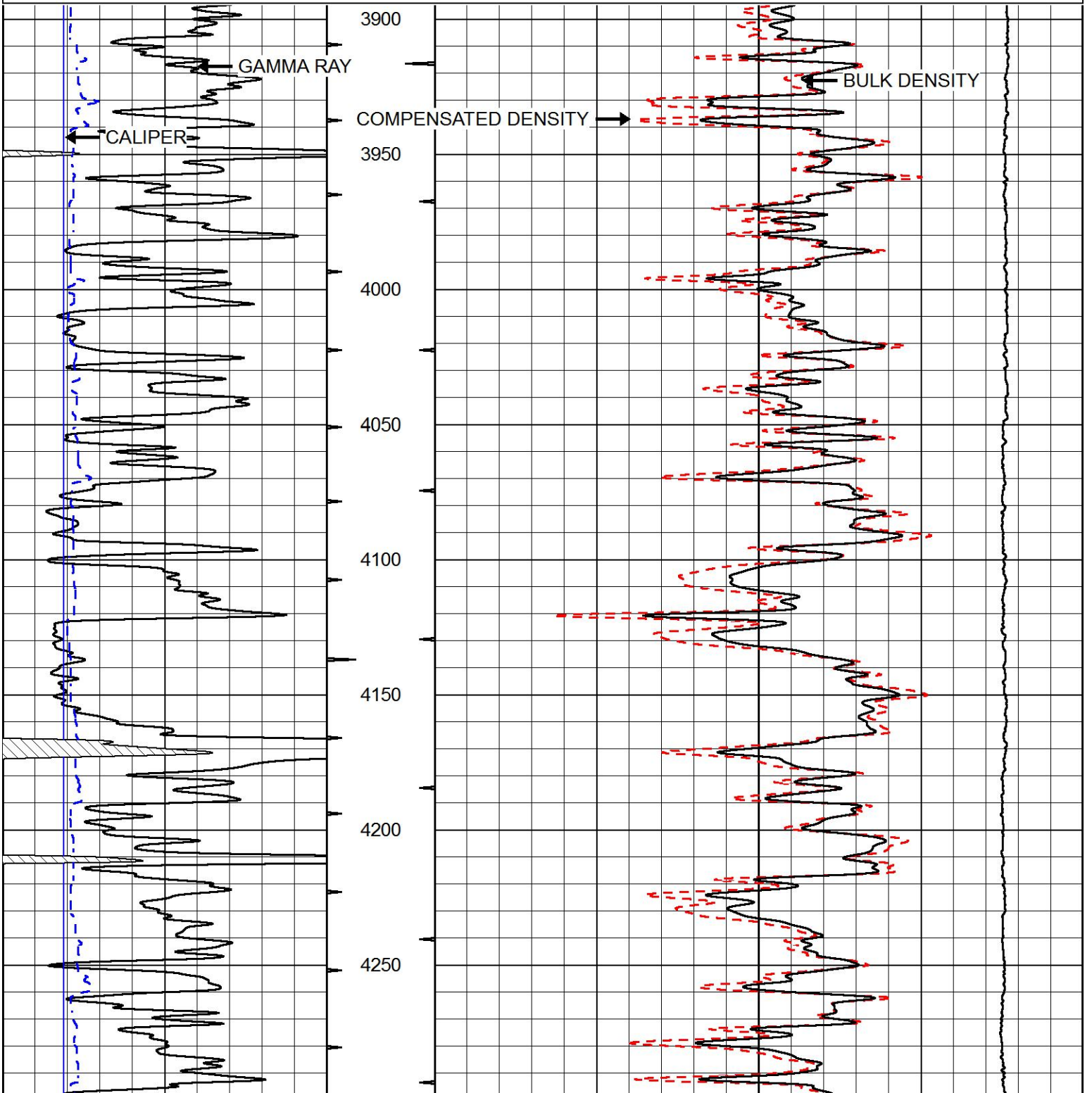
Dataset: brito_four_boys_1_28.db: field/well/stackmic/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

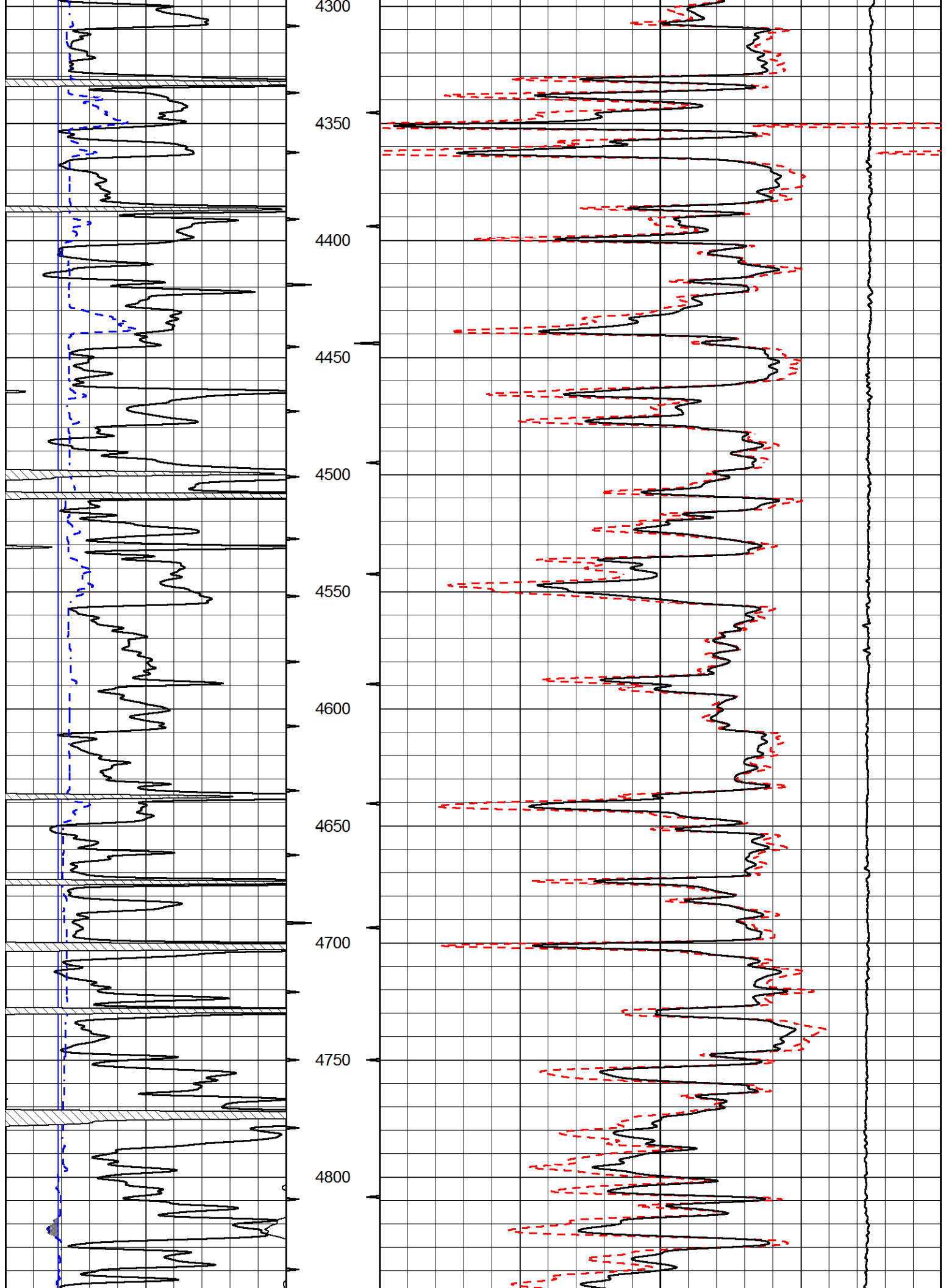
MAIN PASS

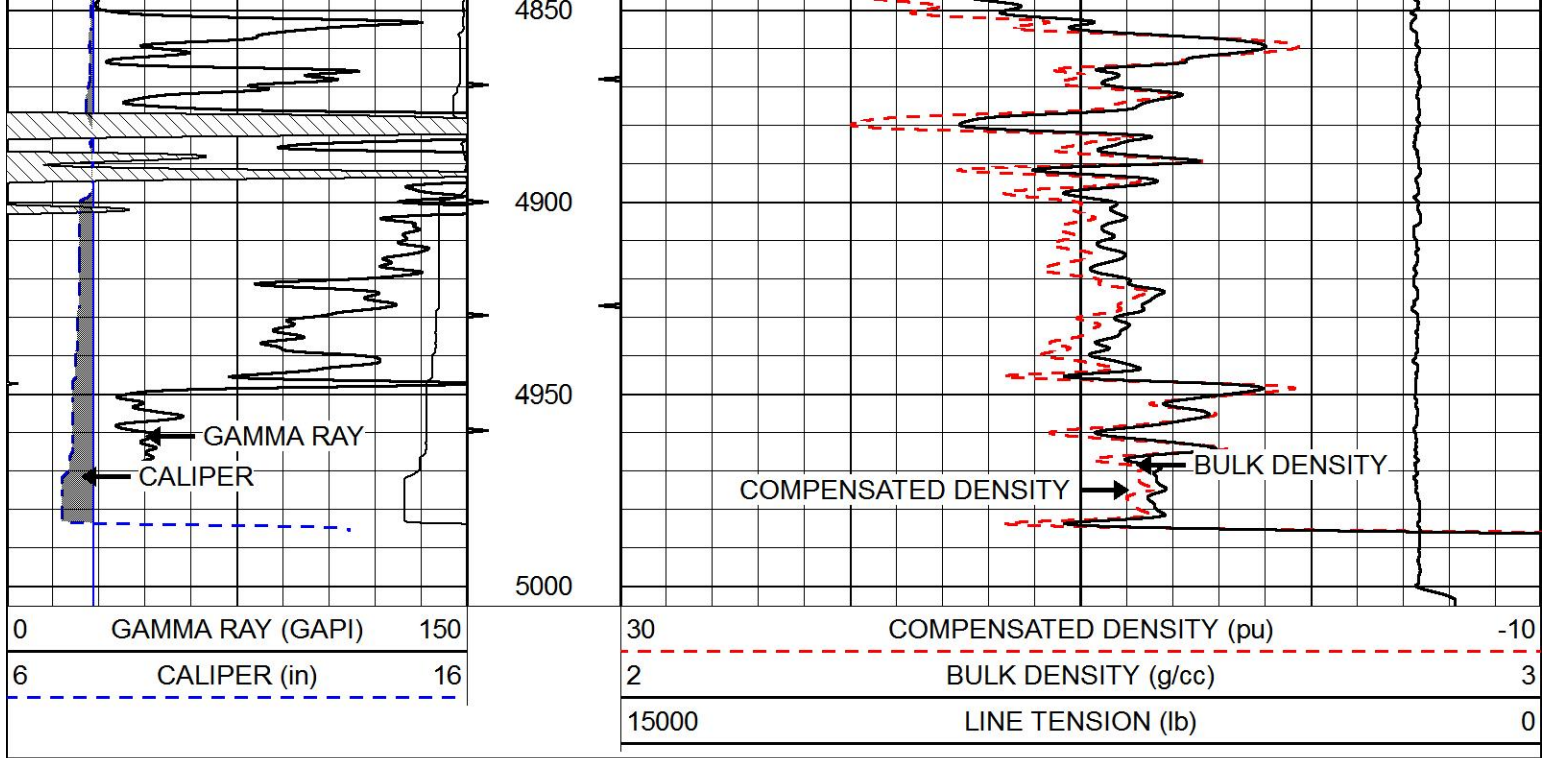
Database File brito_four_boys_1_28.db
 Dataset Pathname stackmic/pass3.1
 Presentation Format cdl
 Dataset Creation Fri May 24 03:27:13 2019
 Charted by Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0



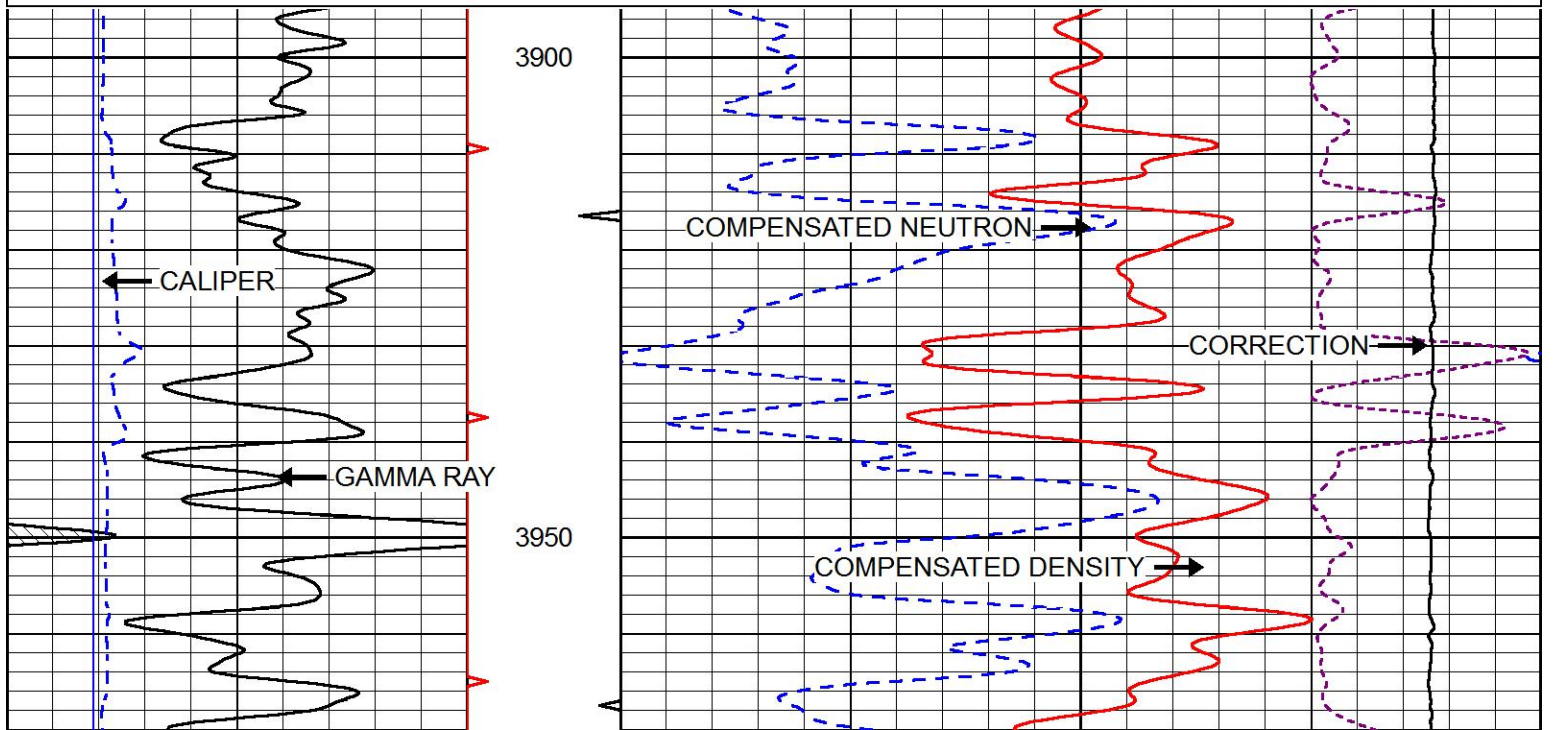


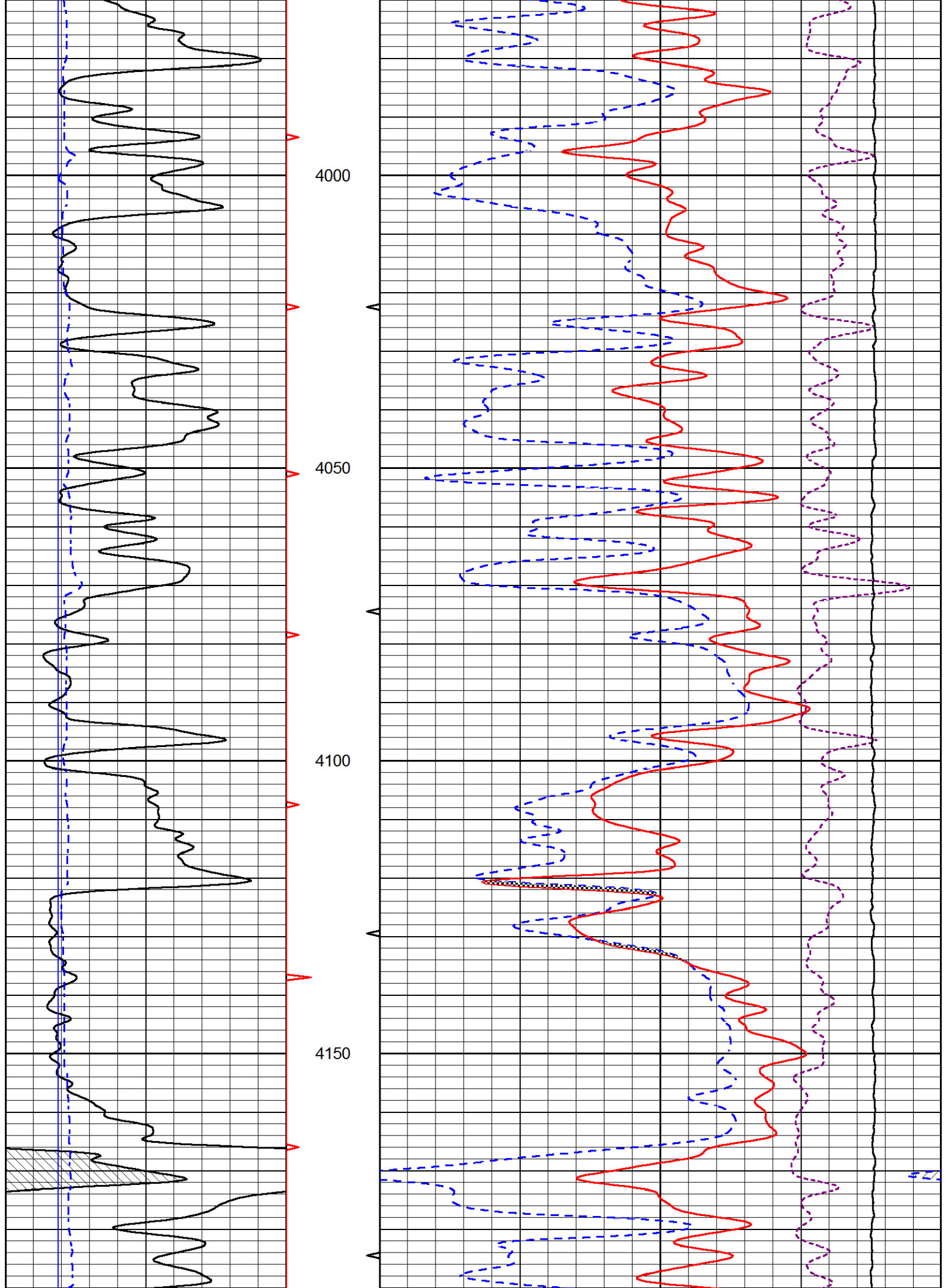


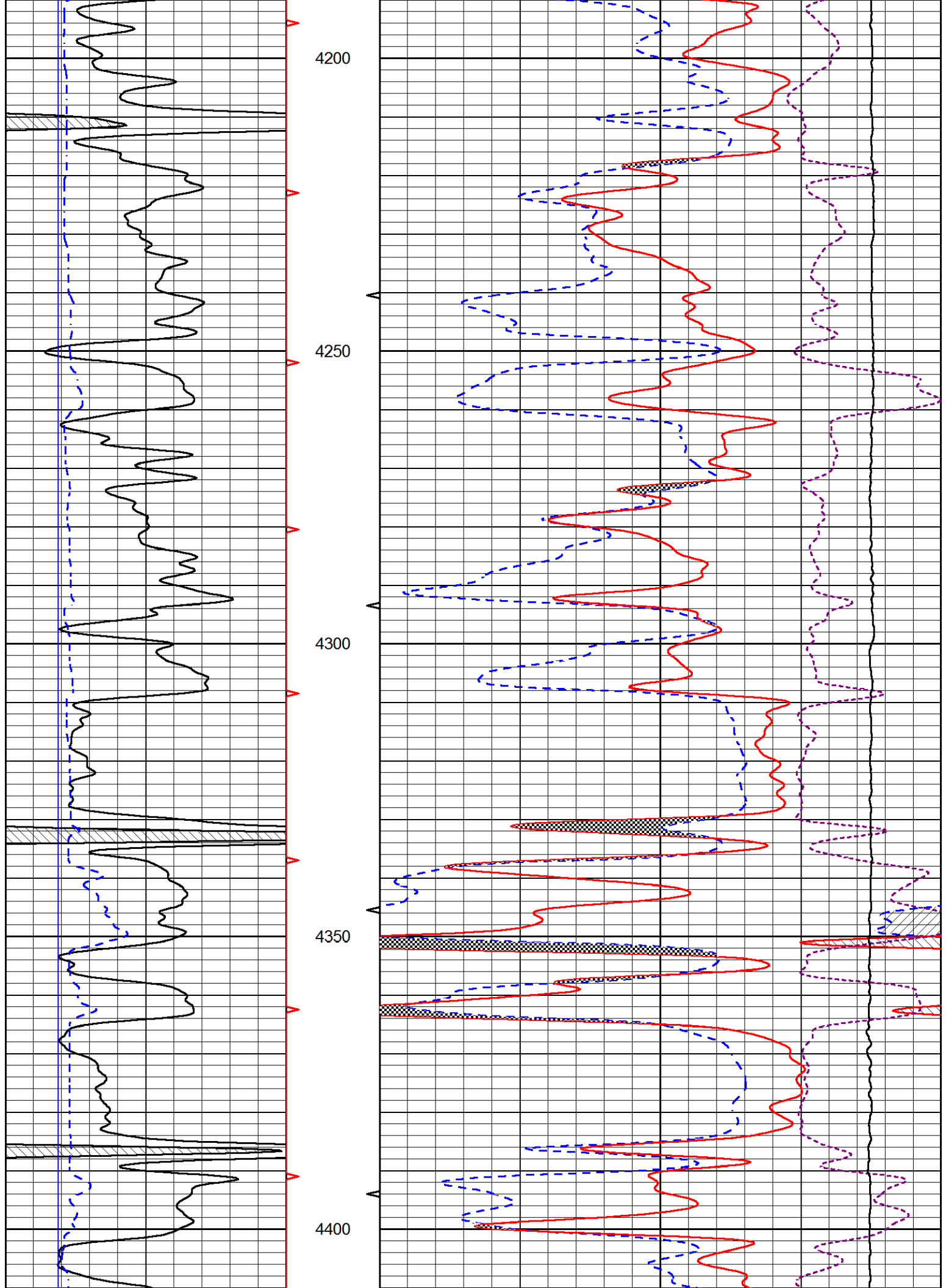
MAIN PASS

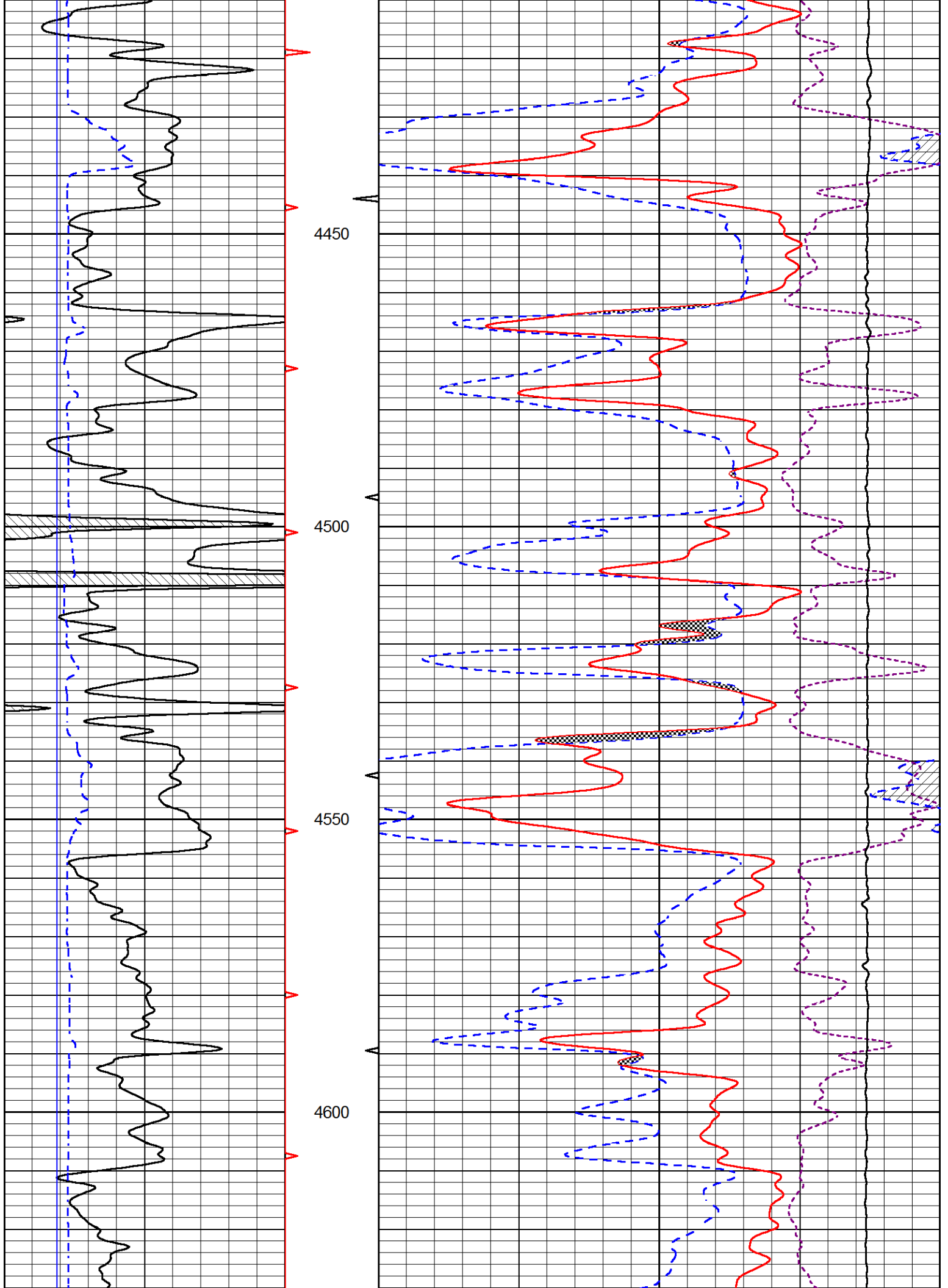
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 Dataset Pathname stackmic/pass3.1
 Presentation Format cndlspec
 Dataset Creation Fri May 24 03:27:13 2019
 Charted by Depth in Feet scaled 1:240

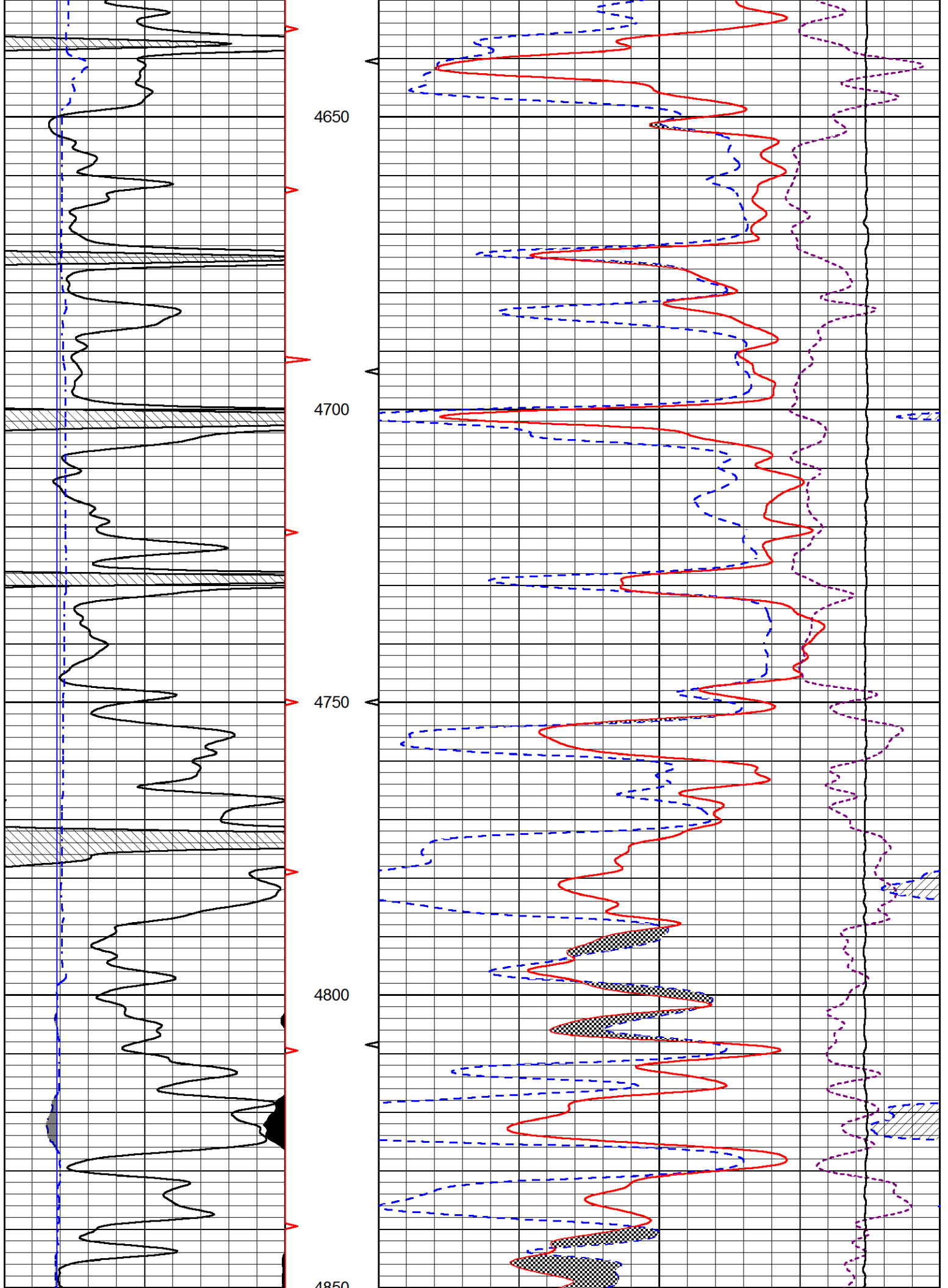
0	GAMMA RAY (GAPI)	150	30	CNLS (pu)	-10	
6	dcal (in)	16	30	DPOR (pu)	-10	
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)	0	
				-0.25	RHOC (g/cc)	0.25

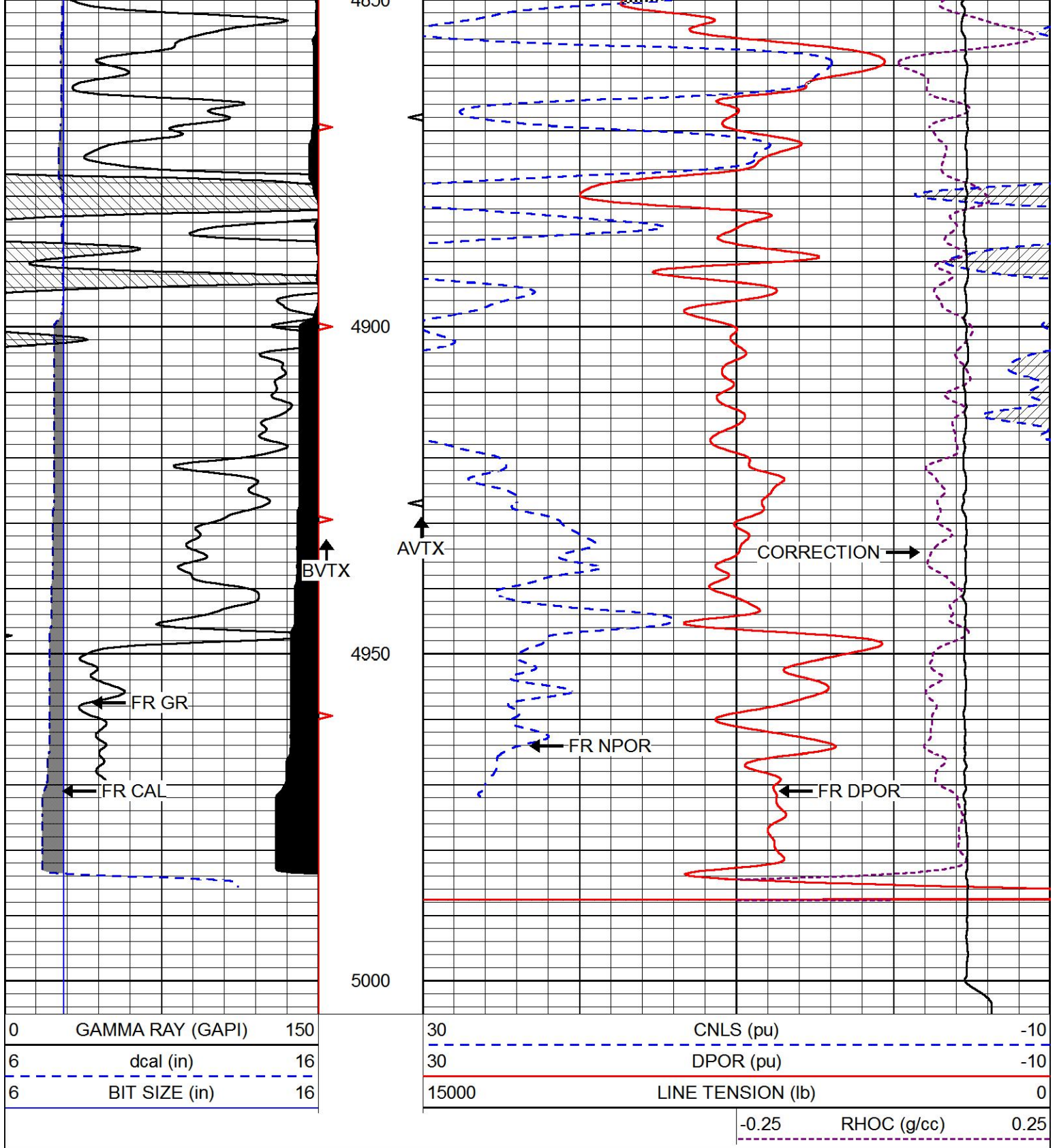










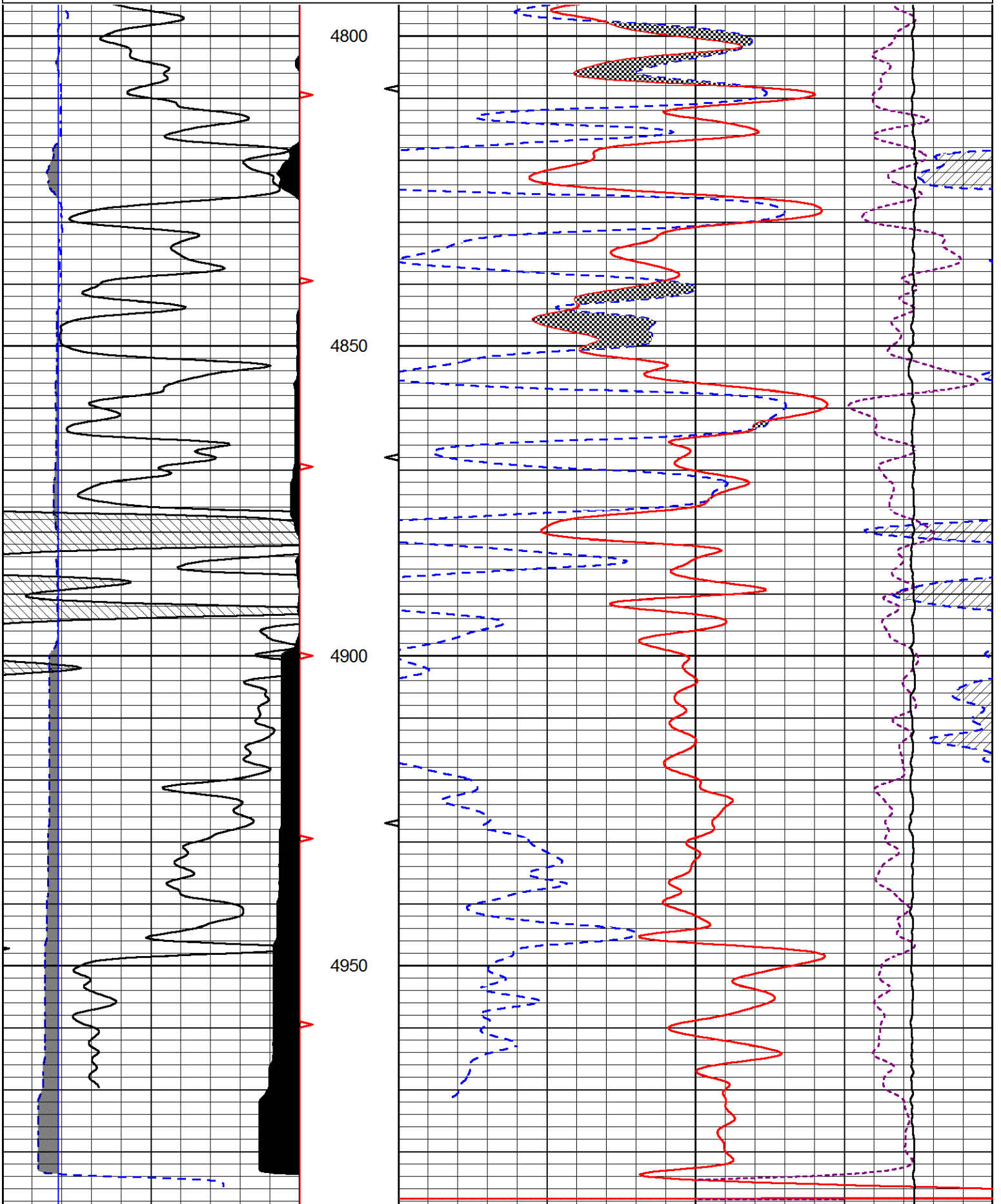


REPEAT SECTION

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

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	CNLS (pu)	-10	
30	DPOR (pu)	-10	
15000	LINE TENSION (lb)	0	
	-0.25	RHOC (g/cc)	0.25



5000					
0	GAMMA RAY (GAPI)	150	30	CNLS (pu)	-10
6	dcal (in)	16	30	DPOR (pu)	-10
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)	0
			-0.25	RHOC (g/cc)	0.25

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

Loop:	Readings		References			Results	
	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

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 State KANSAS