



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **BLAKE EXPLORATION, LLC**
Well **SCHMITT NO.1**
Field **OAKLEY**
County **LOGAN** State **KANSAS**

Location: API #: 15-109-21556-00-00

Other Services

SEC 11 TWP 11S RGE 32W
1320' FSL & 330' FWL

DIL
MEL

Permanent Datum **GROUND LEVEL** Elevation **3053'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 3060'
D.F. N/A
G.L. 3053'

Date **7/13/2018**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **4650'**

Depth Logger **4644'**

Bottom Logged Interval **4615'**

Top Logged Interval **3700'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **3200**

Density **9.3**

Level **FULL**

Max. Rec. Temp. F **123 DEG/F**

Operating Rig Time **2 HOURS**

Equipment -- Location **108 HAYS**

Recorded By **J. HENRICKSON**

Witnessed By **MIKE DAVIGNON**

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

ONE 12.25" 0 262' 8.625" 23# 0 262'

TWO 7.875" 262' TD 262'

<<< 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.

OAKLEY KANSAS
3/4 SOUTH ON HWY 83, EAST INTO

Log Measured From: KELLY BUSHING 7 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: MIKE DAVIGNON
Secondary Witness:
Secondary Witness:
Secondary Witness:

DatabaseC:\ProgramData\WarriorData\blake_schmitt_1.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-260	94	Off	4644

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	37.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73					
LSD	28.43		CDL-M&W (979-229)	8.50	4.00	250.00
DCAL	28.42					
SSD	27.93					
MCAL	19.83		ML-PSI STKBL ML (PSI-01) Stackable Microlog Tools	7.58	4.00	65.00
MI	19.83					
MN	19.83					
RLL3	15.80		DIL-M&W (1987)	18.50	3.50	220.00
RLL3F	15.79					
CILD	8.00					

CILM

4.70

SP

0.20

Dataset: blake_schmitt_1.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

PIONEER

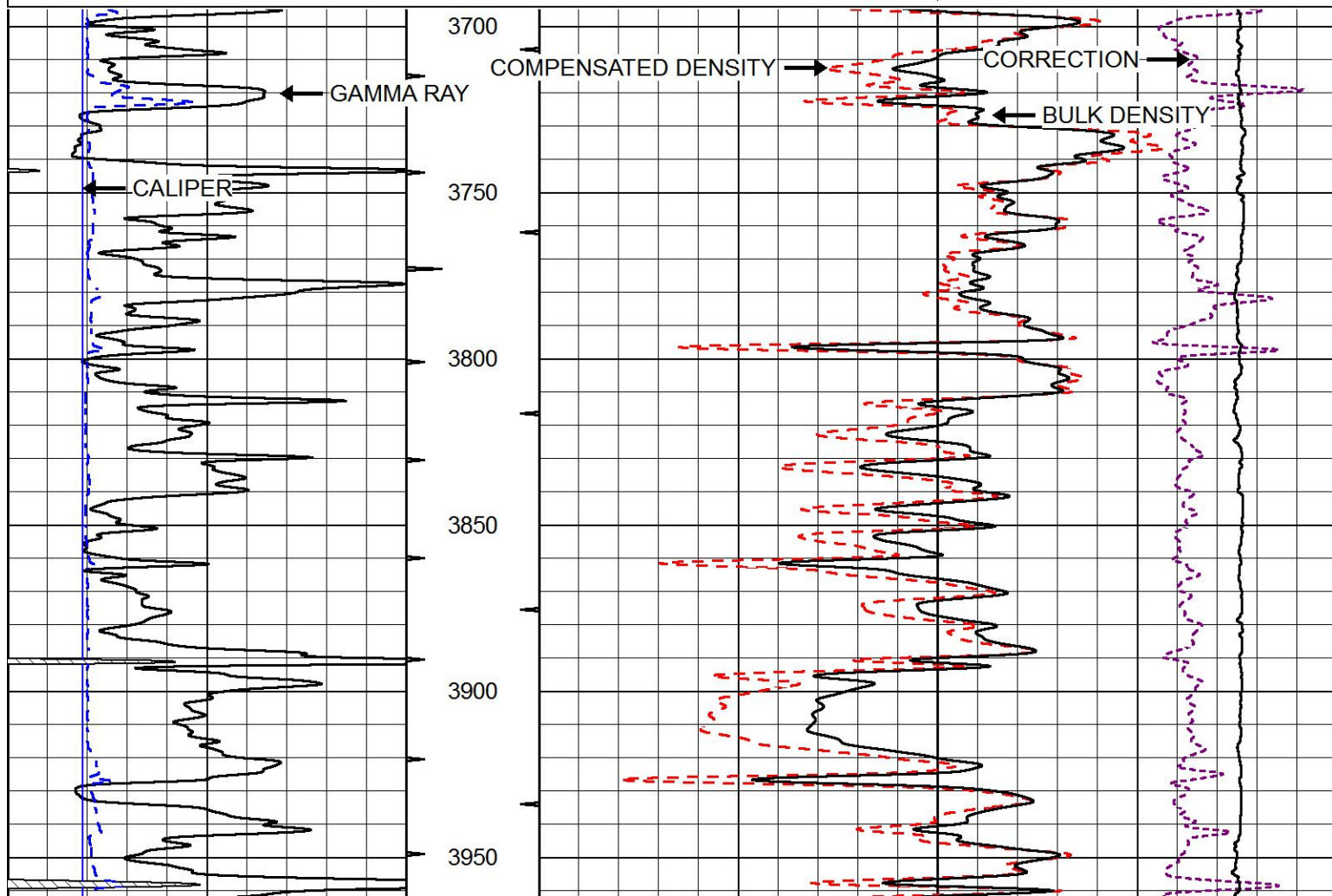
Pioneer Energy Services

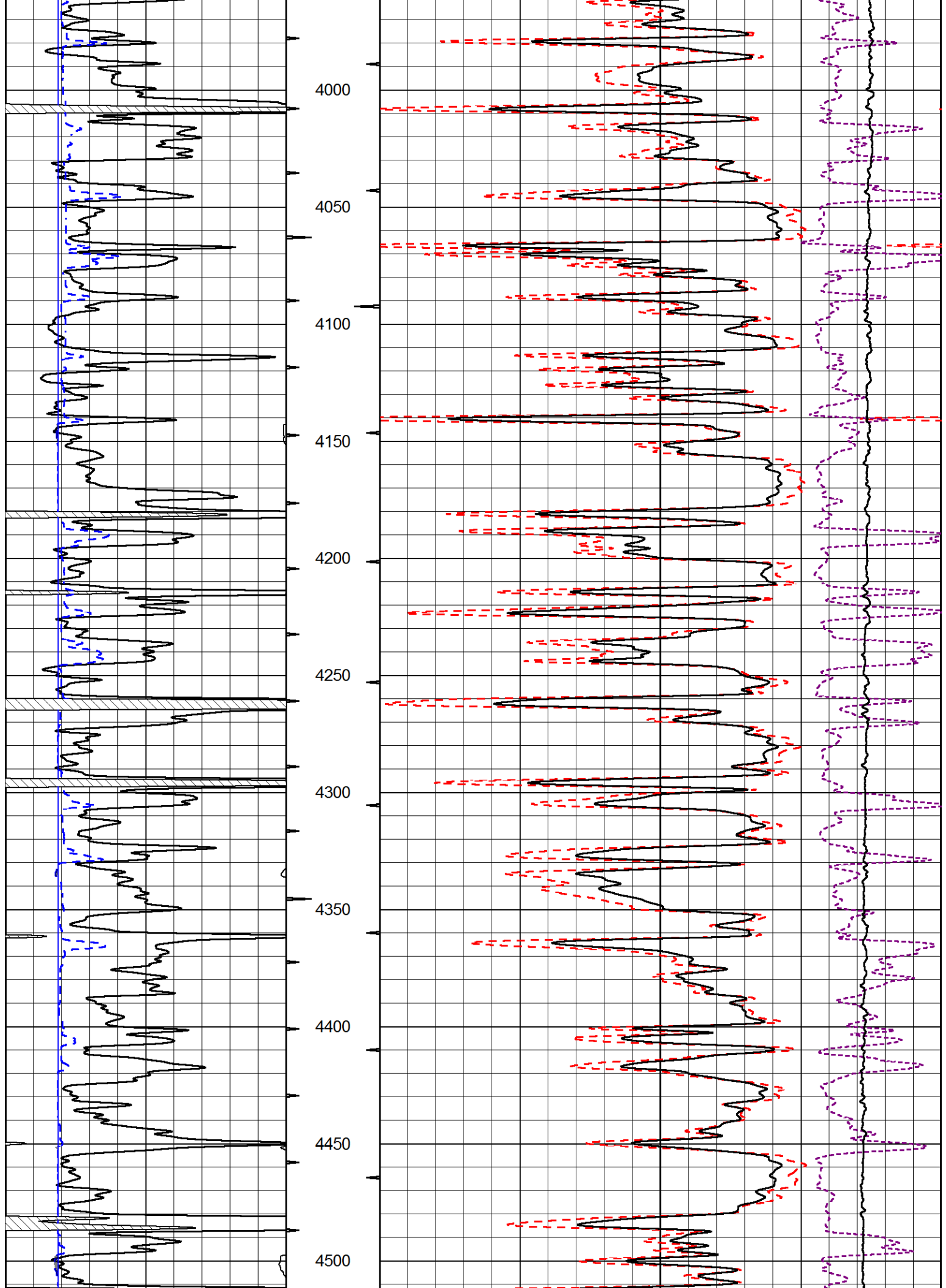
MAIN PASS

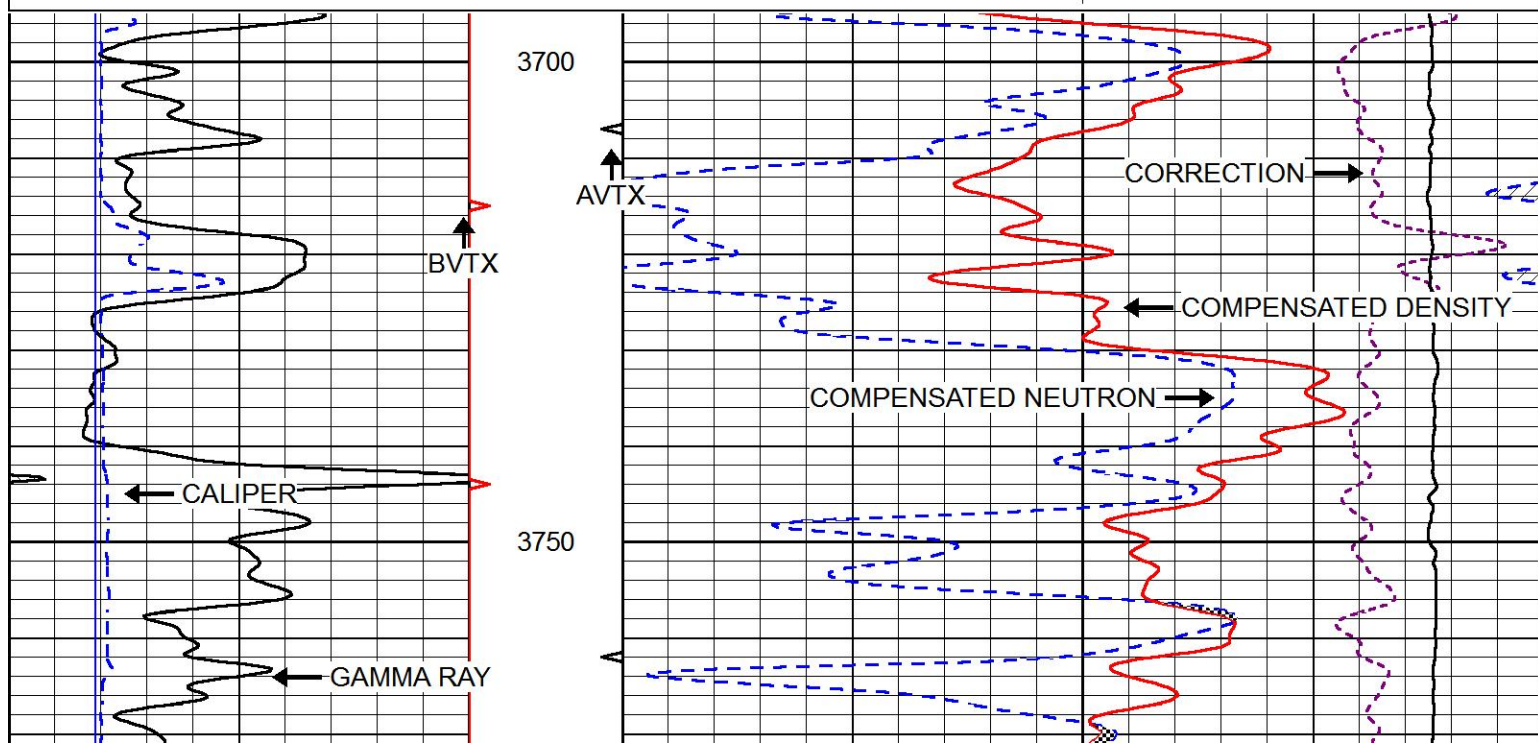
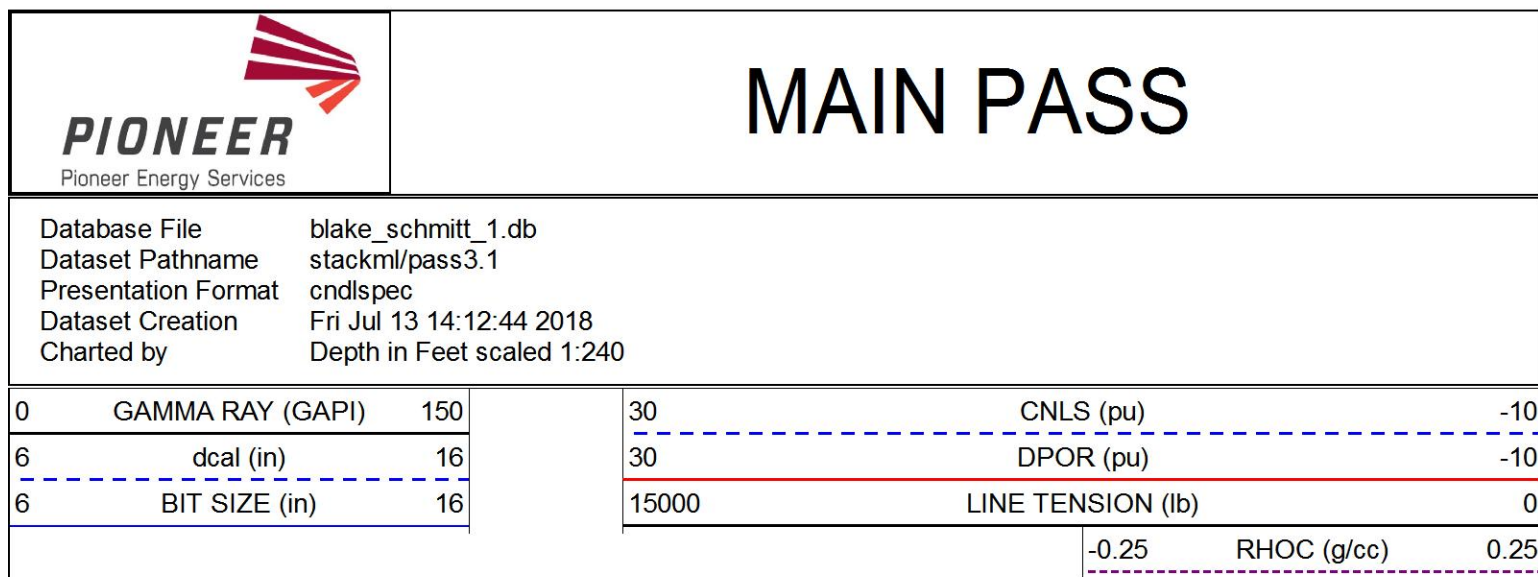
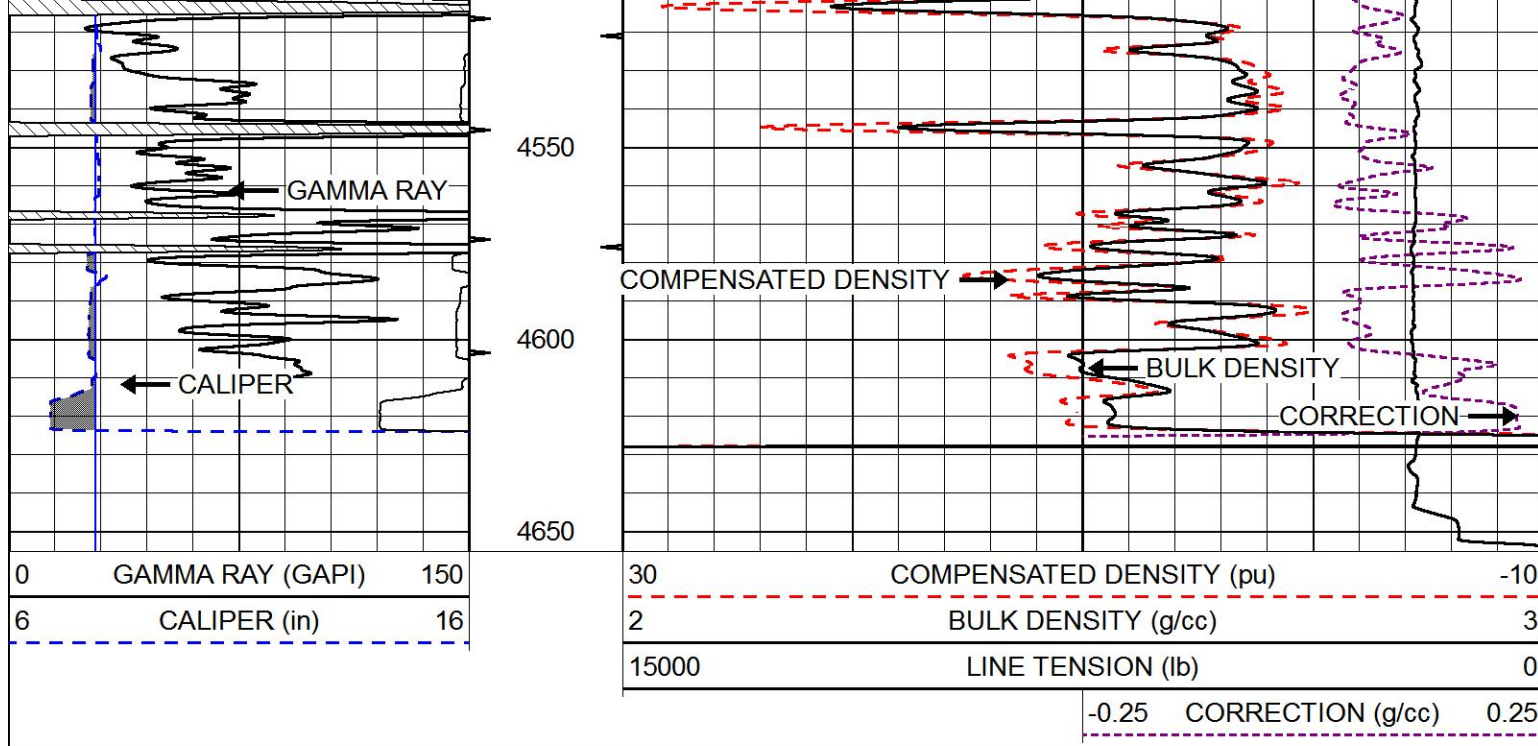
Database File blake_schmitt_1.db
Dataset Pathname stackml/pass3.1
Presentation Format cdl
Dataset Creation Fri Jul 13 14:12:44 2018
Charted by Depth in Feet scaled 1:600

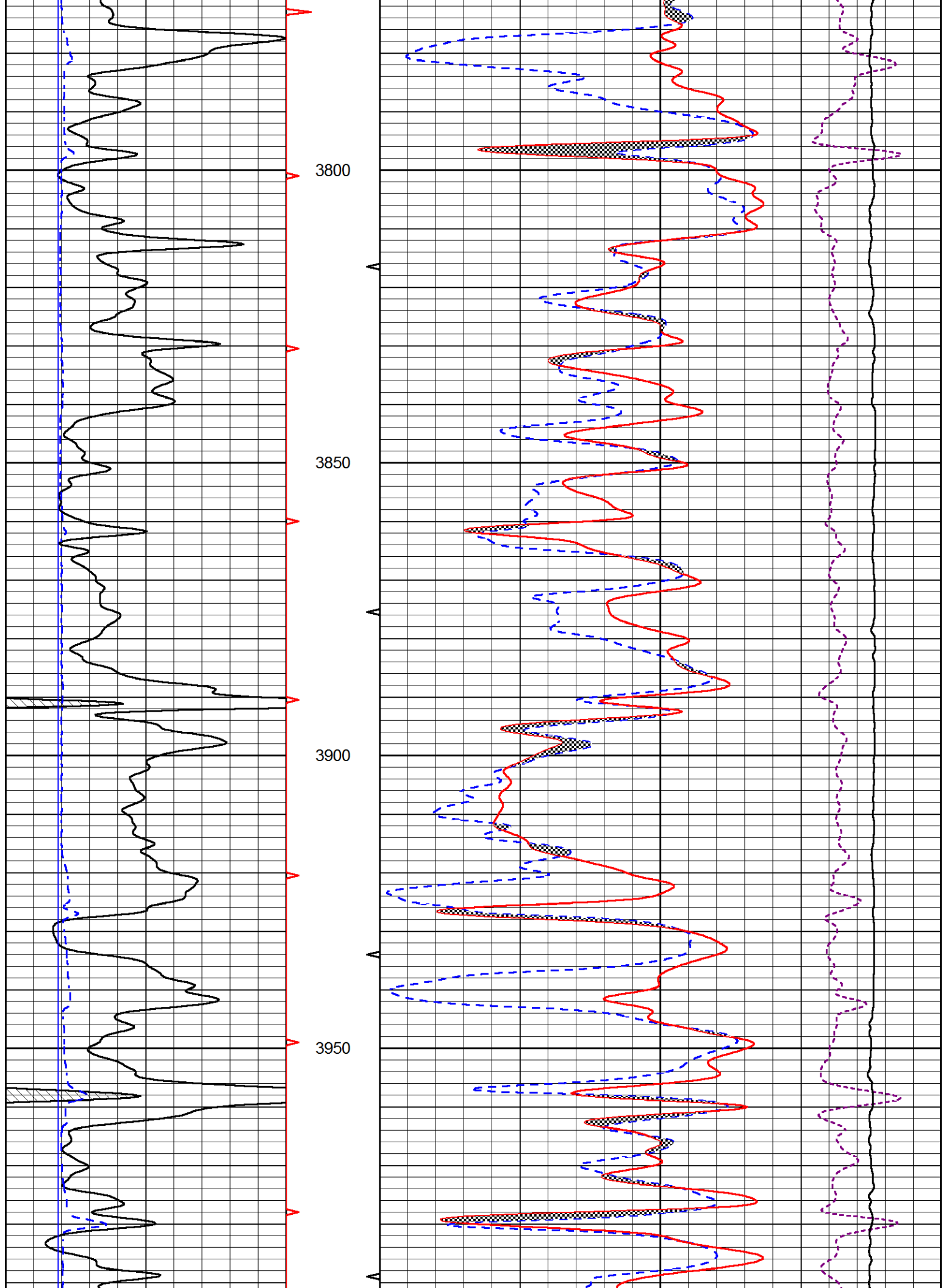
0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

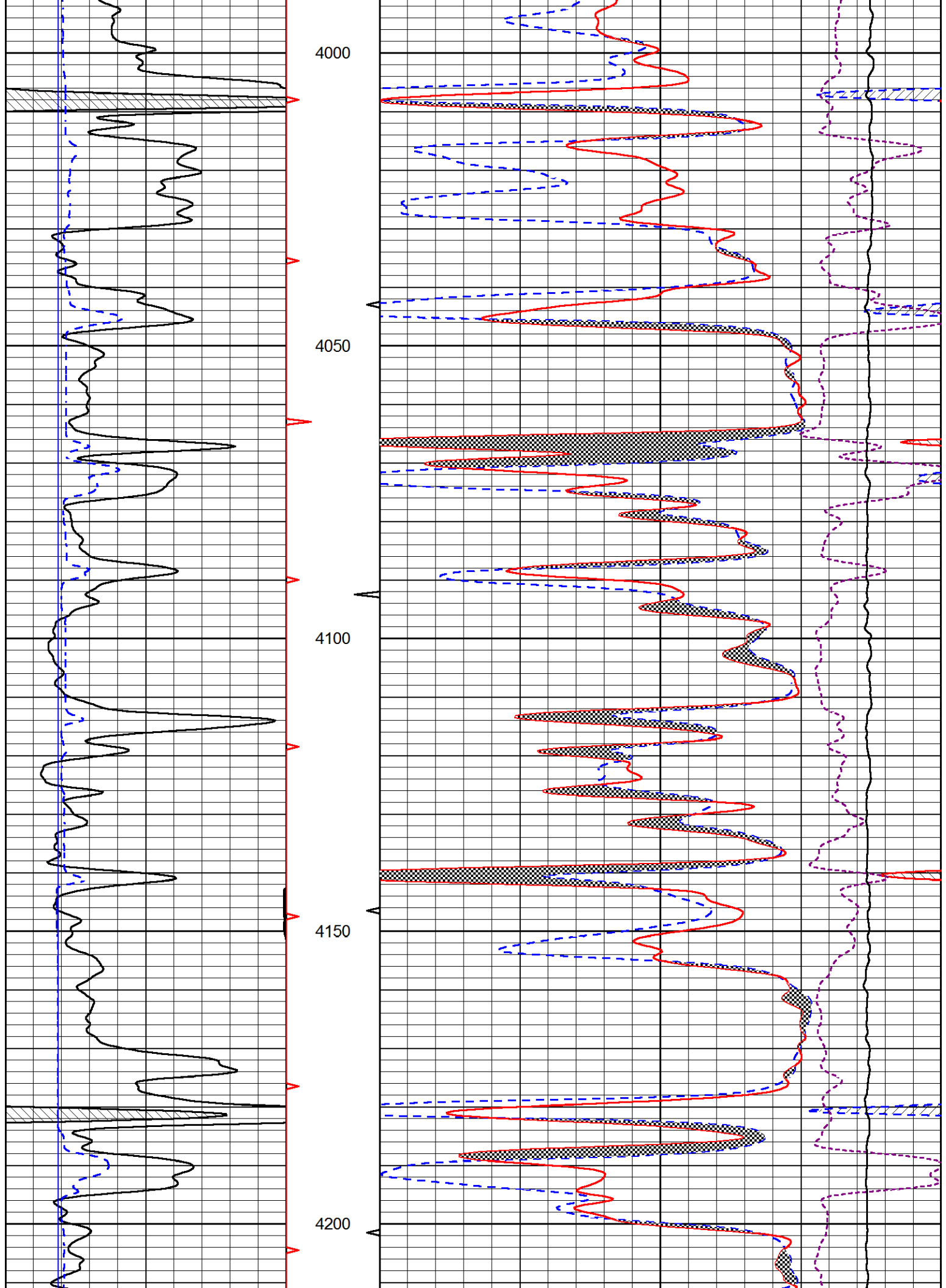
30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

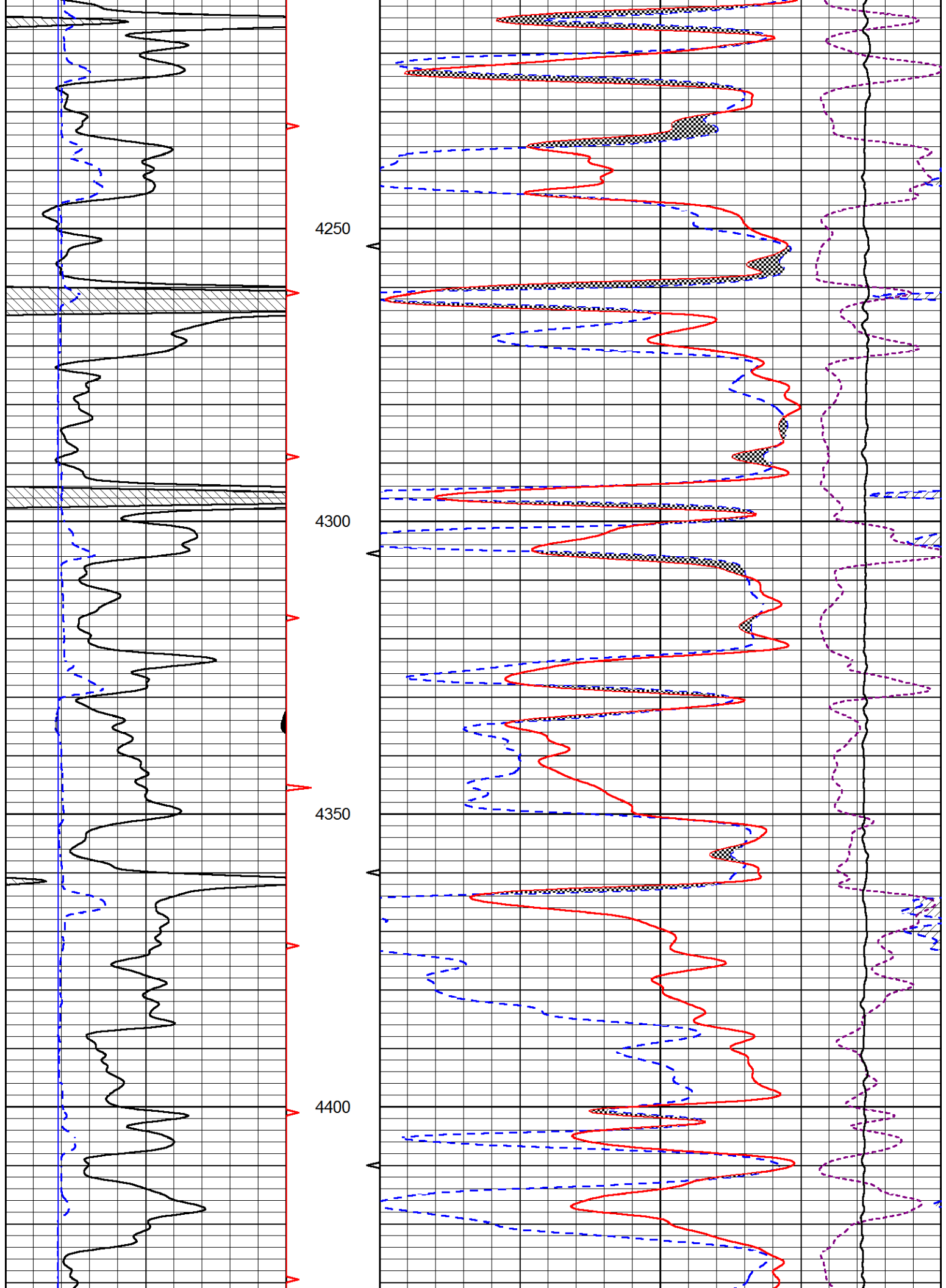


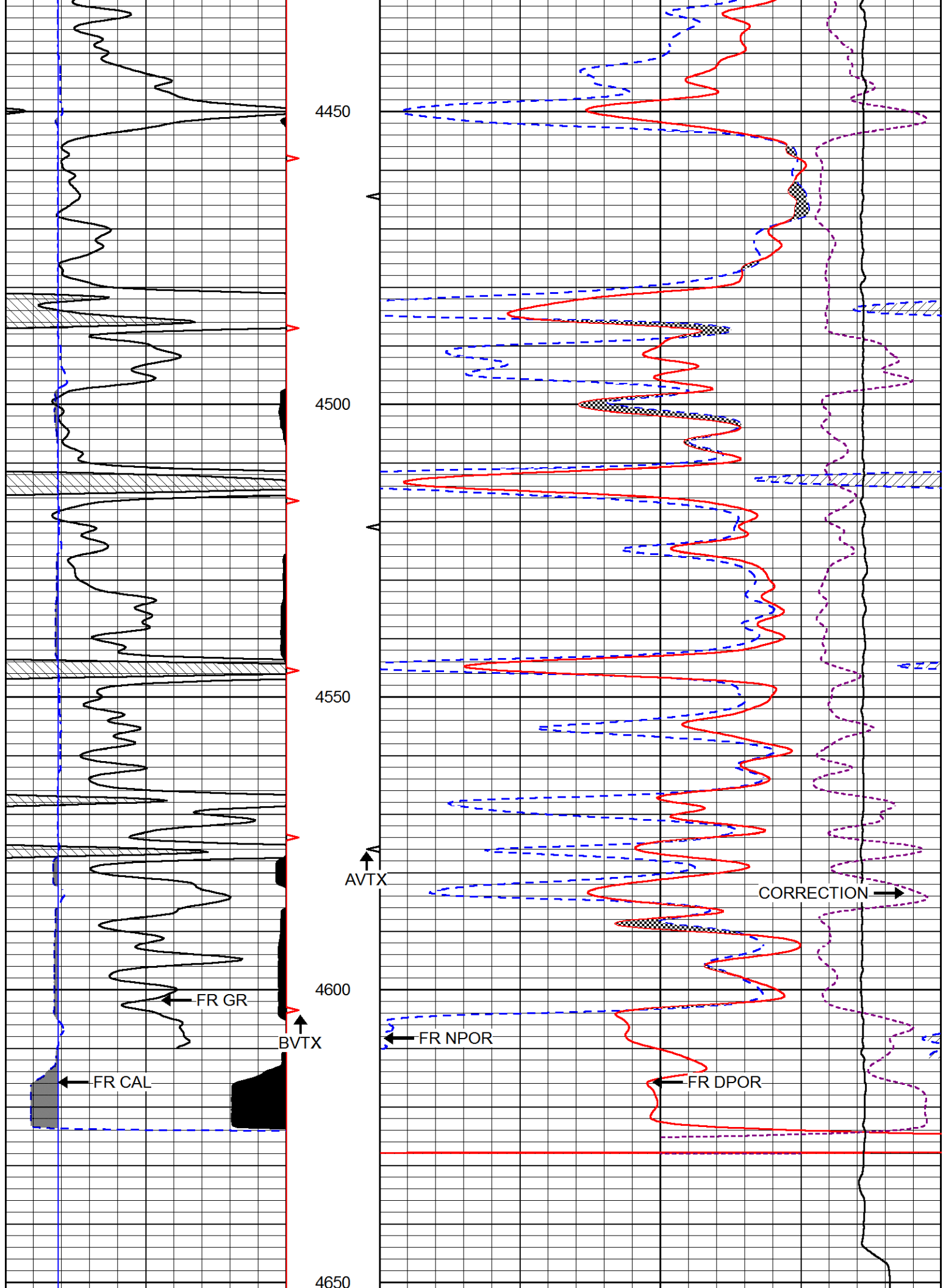












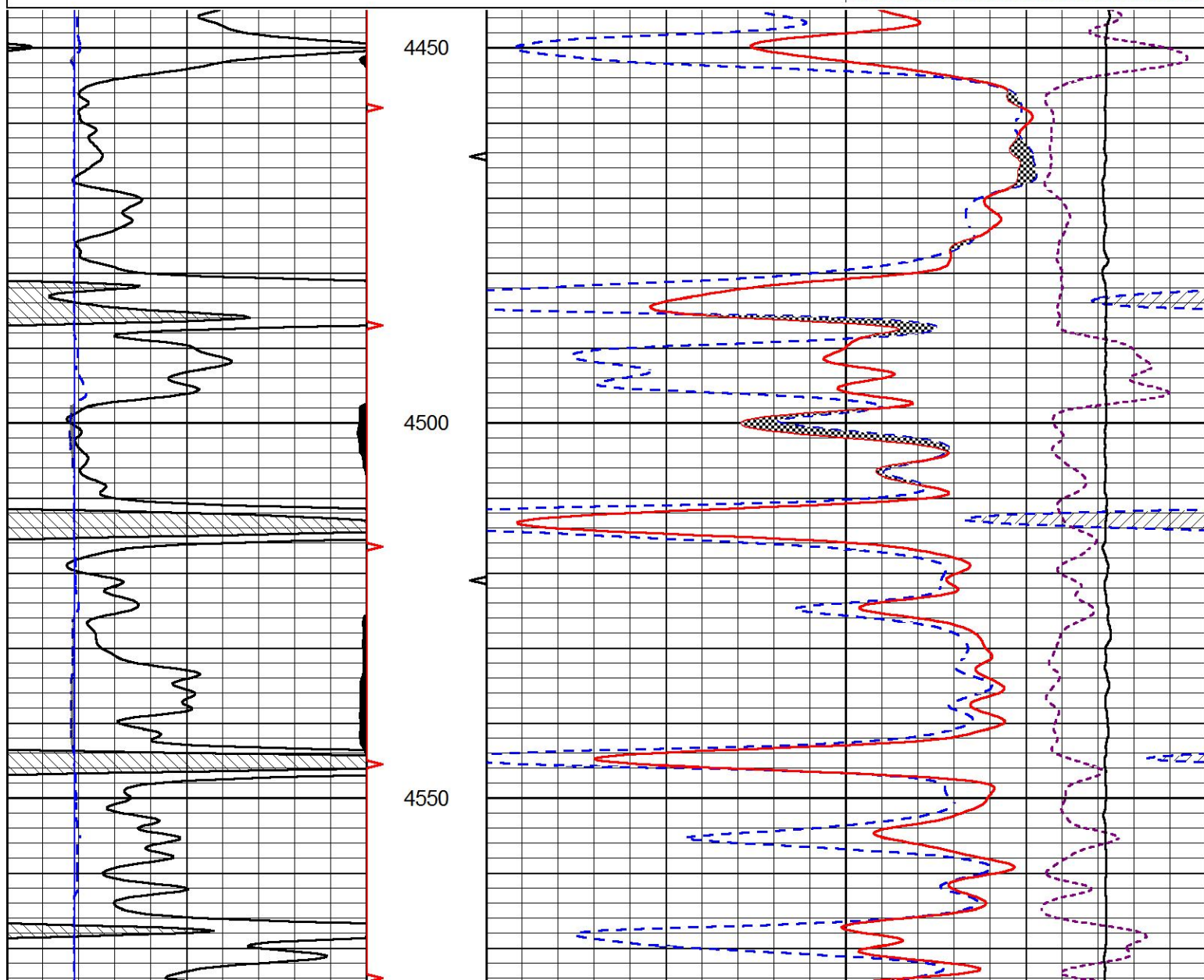
0	GAMMA RAY (GAPI)	150	30	CNLS (pu)	-10
6	dcal (in)	16	30	DPOR (pu)	-10
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)	0
				-0.25	RHOC (g/cc) 0.25

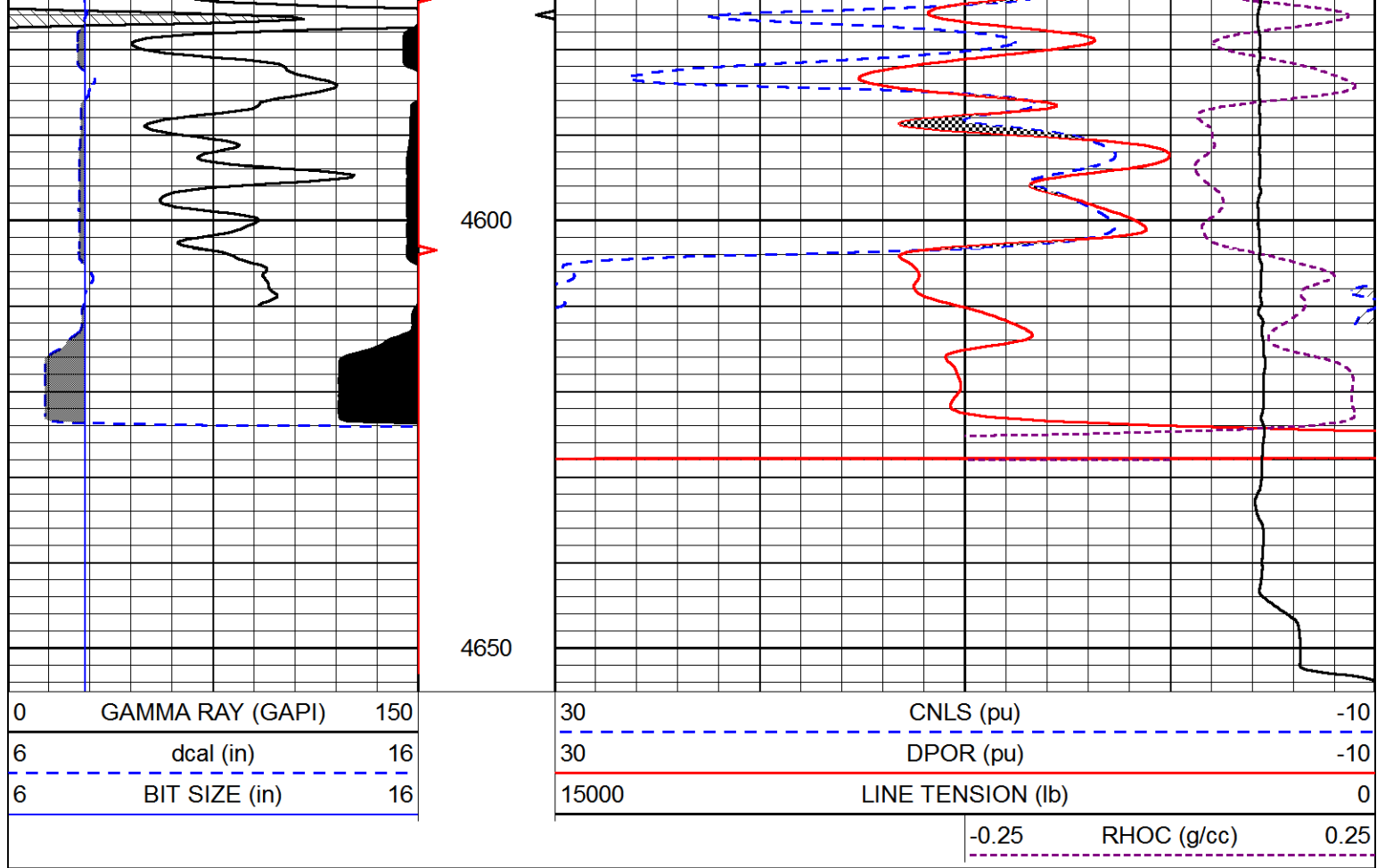


REPEAT SECTION

Database File blake_schmitt_1.db
Dataset Pathname stackml/pass2.1
Presentation Format cndlspec
Dataset Creation Fri Jul 13 14:12:57 2018
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





Calibration Report

Database File: blake_schmitt_1.db
Dataset Pathname: stackml/pass3.1
Dataset Creation: Fri Jul 13 14:12:44 2018

Dual Induction Calibration Report

Serial-Model: 1987-M&W
Calibration Performed: Tue Apr 11 17:07:38 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

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	27500.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	31500.0000	-1.0000
Caliper	1.0001	1.1397	6.5000	18.5000	in	86.0000	-82.7000

Compensated Density Calibration Report

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

979-229-M&W
21170B /
Tue Jun 26 07:59:32 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	7726.98	9910.47	cps
Aluminum	2.680	g/cc	1442.93	6391.03	cps
Spine Angle = 75.35			Density/Spine Ratio = 0.533		
	Size		Reading		
Small Ring	4.00	in	1.16		
Large Ring	16.00	in	1.03		

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



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