



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **BRISCOE PETROLEUM, LLC**
Well **TAMMY #1**
Field **GROENDYKE**
County **BARBER** State **KANSAS**

Location: API #: 15-007-24368-00-00

Other Services

SEC 35 TWP 33S RGE 12W
2310' FNL & 330' FWL

DIL/MEL
BHCS

Permanent Datum **GROUND LEVEL** Elevation **1580'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 1593'
D.F. N/A
G.L. 1580'

Date **6/28/2020**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **5320'**

Depth Logger **5319'**

Bottom Logged Interval **5290'**

Top Logged Interval **3500'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **5000**

Density **9.4**

Level **FULL**

Max. Rec. Temp. F **129**

Operating Rig Time **5 HOURS**

Equipment -- Location **P-24 HAYS**

Recorded By **D. SCHMIDT**

Witnessed By **STEVE MURPHY**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	237'	8.625"	23#	0'	237'
TWO	7.875"	237'	TD				

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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.

MEDICINE LODGE,
SOUTH TO GERLANE, 2 3/4 WEST AND SOUTHWEST,
1/4 SOUTH INTO

Log Measured From: **KELLY BUSHING** 13 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: **STEVE MURPHY**
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	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 (817-947)	8.50	4.00	250.00
ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics					7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83						
RLL3F RLL3	15.80 15.80						
CILD	8.00			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILM	4.70						
SP	0.20						
Dataset: briscoe_tammy 1.db: field/well/STKML/pass3.4 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\briscoe_tammy 1.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	100	4.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	340	0		0



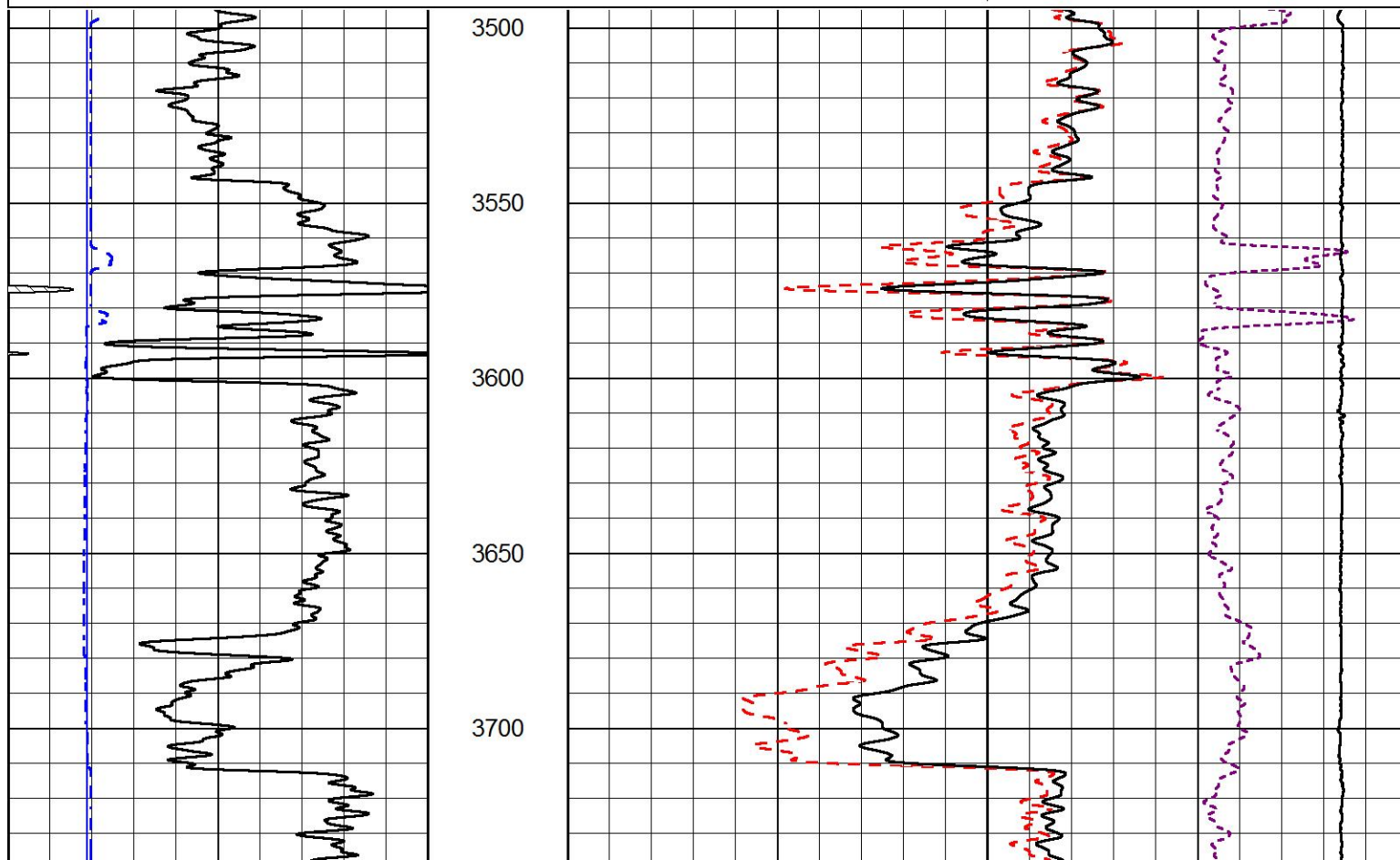
MAIN PASS

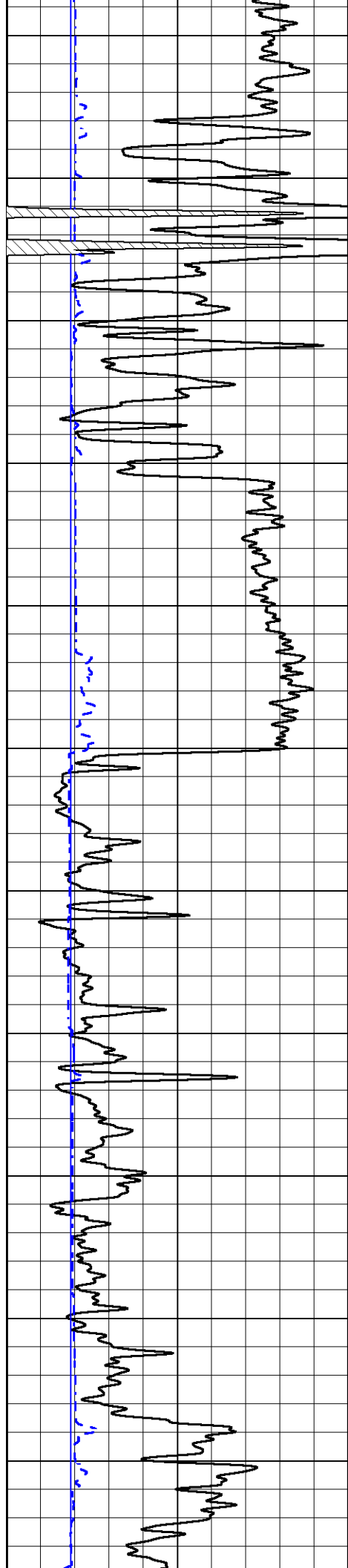
Database File briscoe_tammy 1.db
Dataset Pathname STKML/pass3.1
Presentation Format _cdl
Dataset Creation Sun Jun 28 10:20:58 2020
Charted by Depth in Feet scaled 1:600

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

COMPENSATED DENSITY (2.71 MA)

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





3750

3800

3850

3900

3950

4000

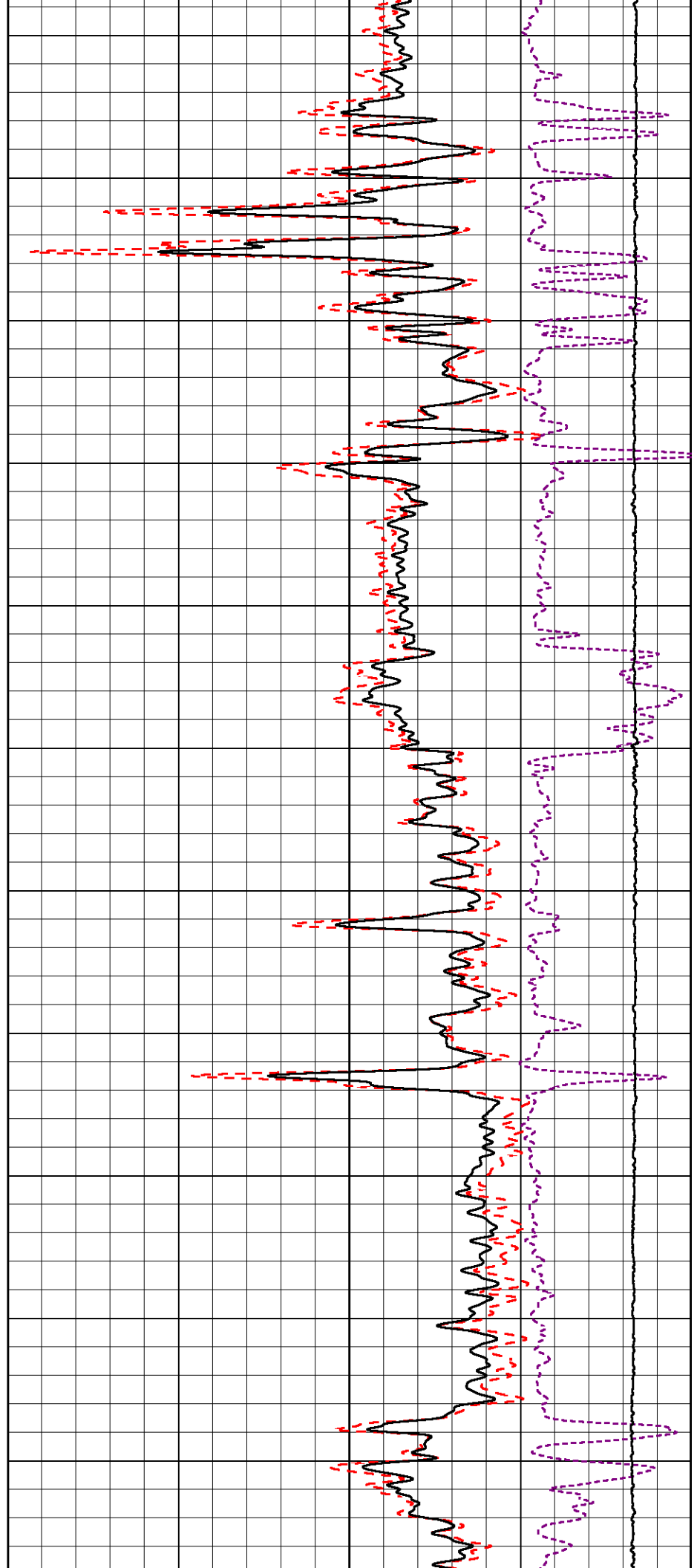
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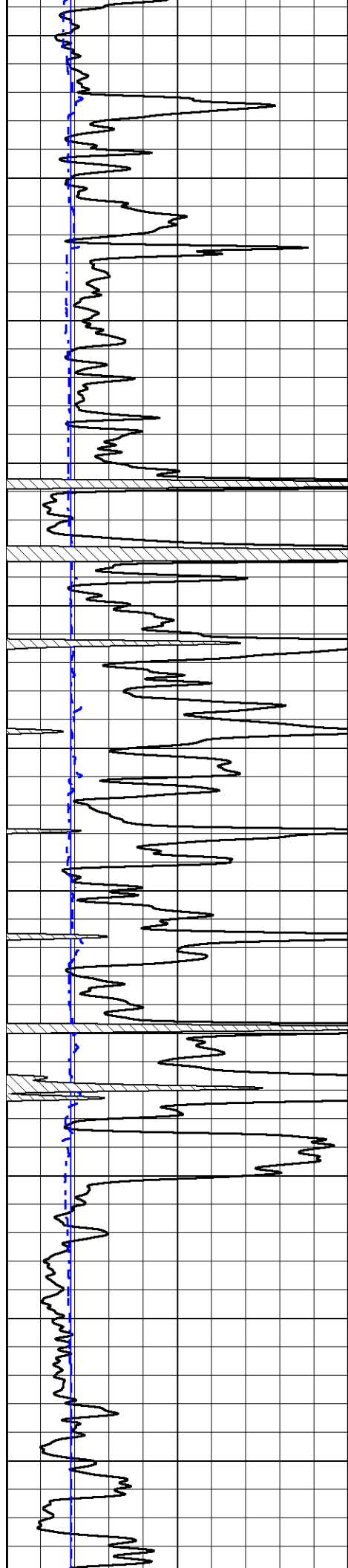
4100

4150

4200

4250





4300

4350

4400

4450

4500

4550

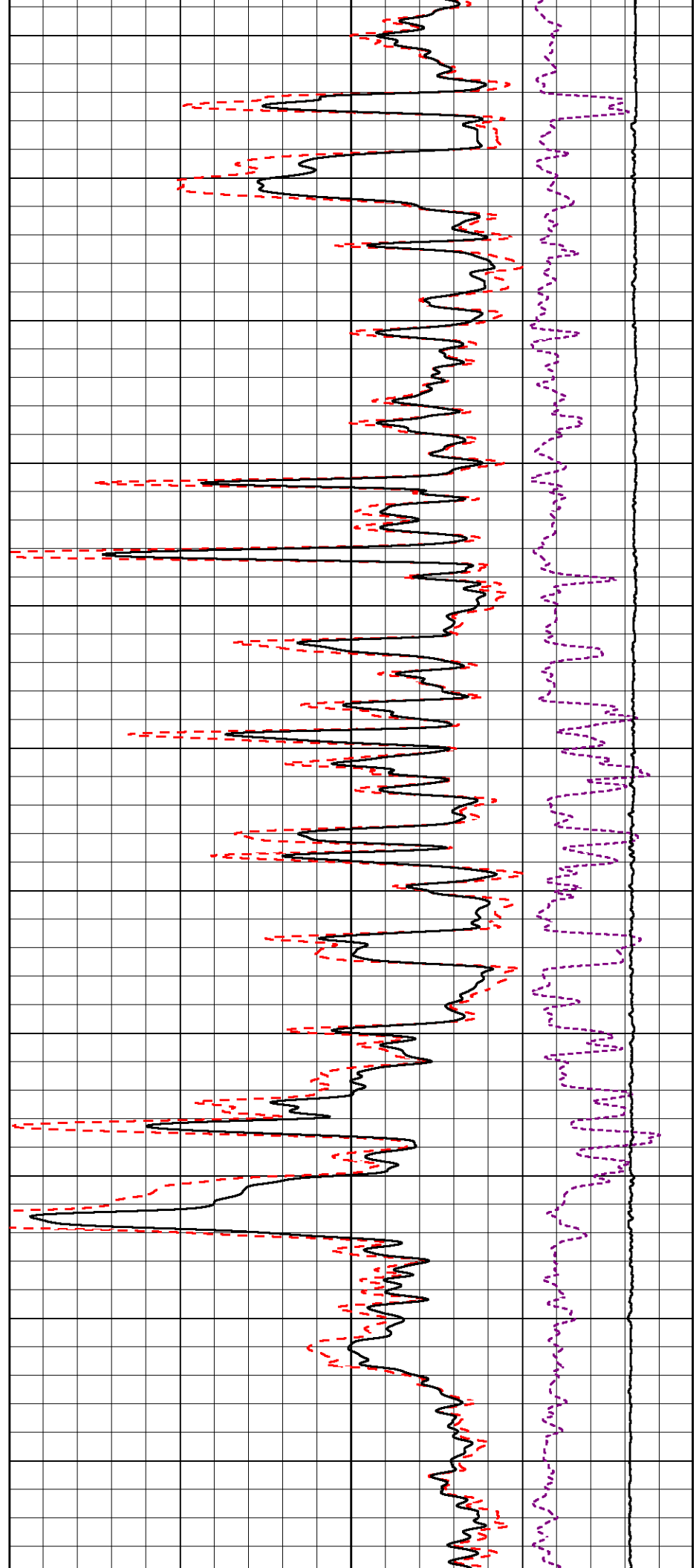
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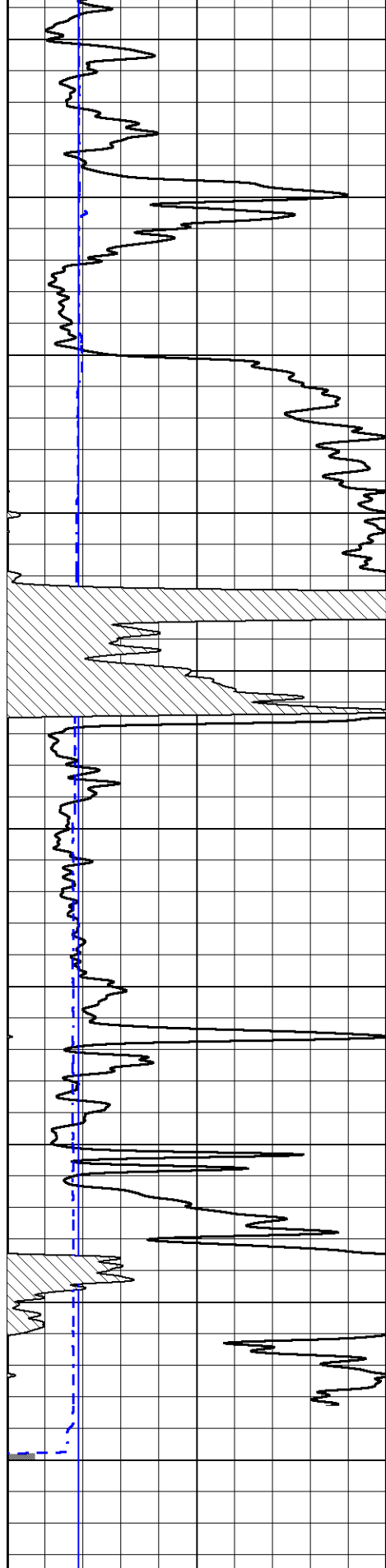
4650

4700

4750

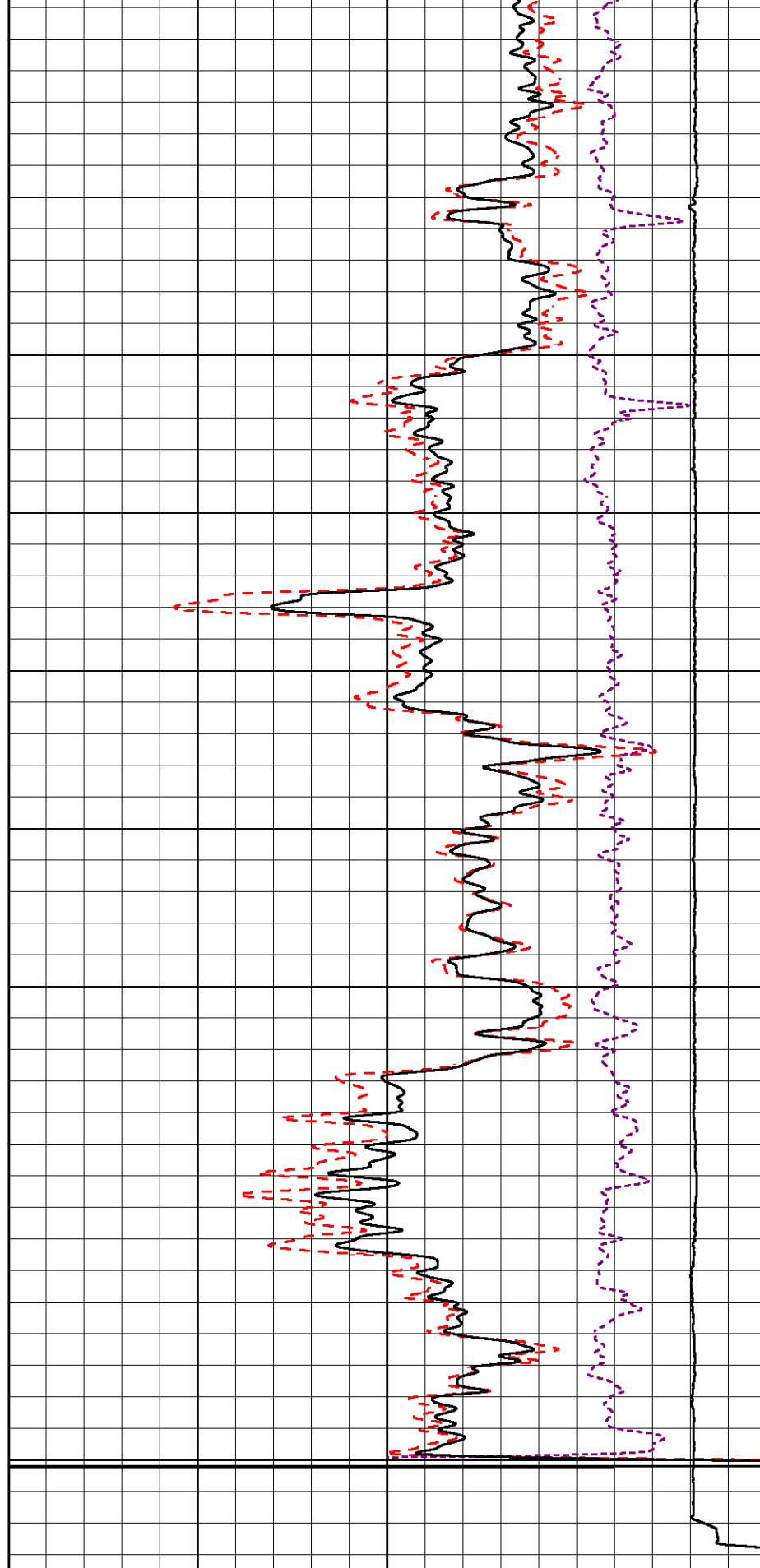
4800





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

4850
4900
4950
5000
5050
5100
5150
5200
5250
5300



COMPENSATED DENSITY
(2.71 MA)
30 (pu) -10

2 BULK DENSITY (g/cc) 3

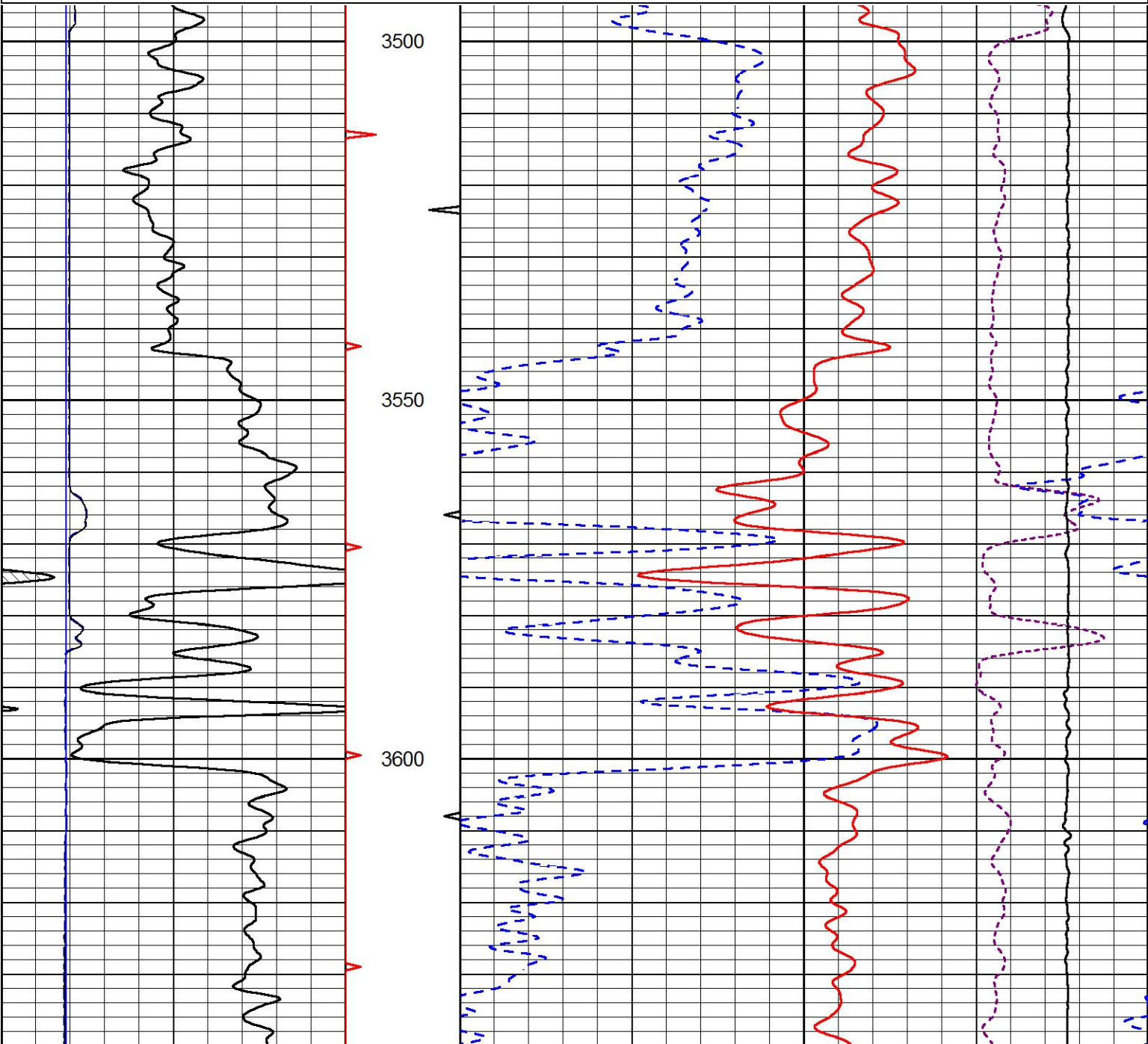
LINE TENSION (lb)

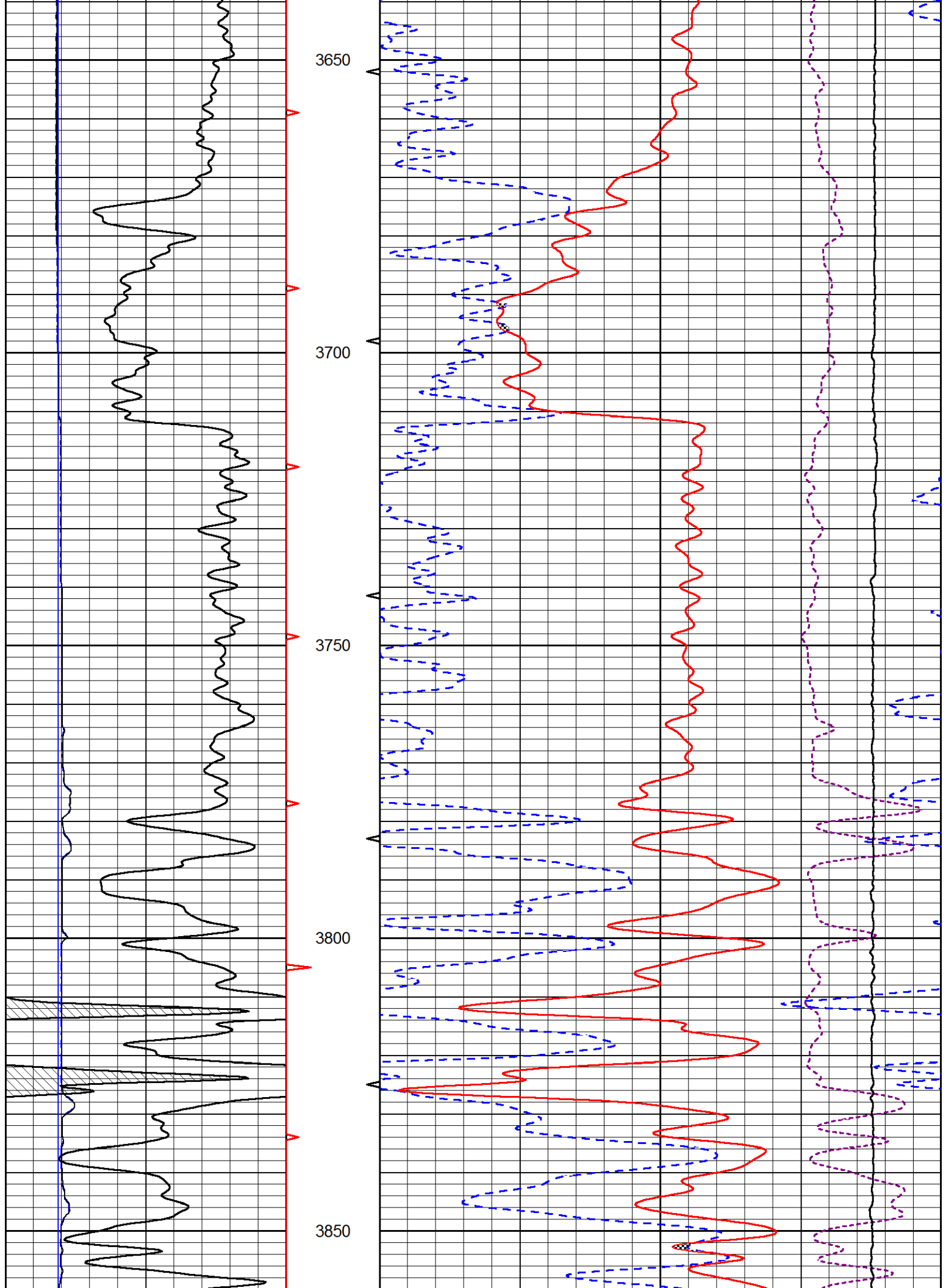


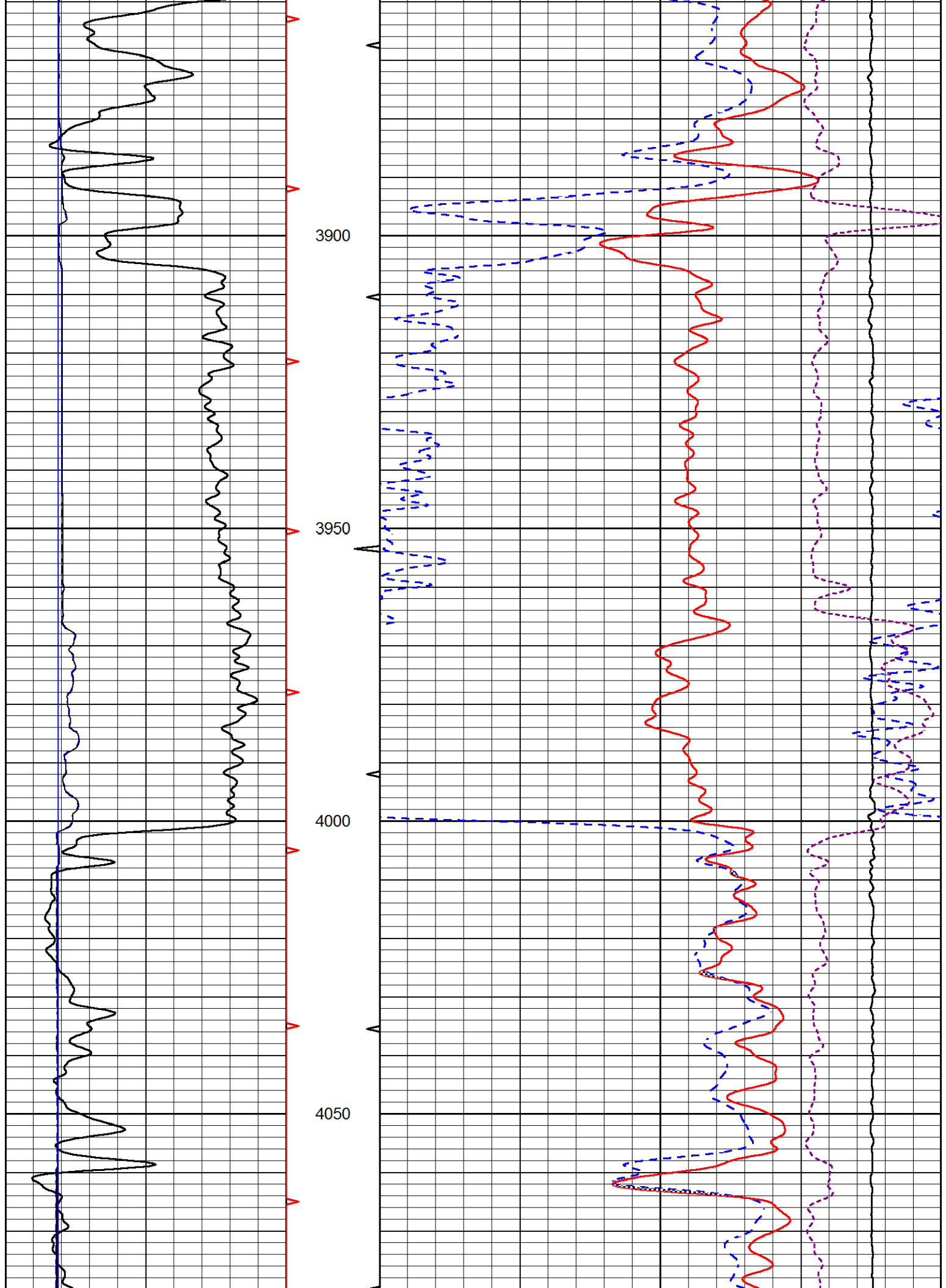
MAIN PASS

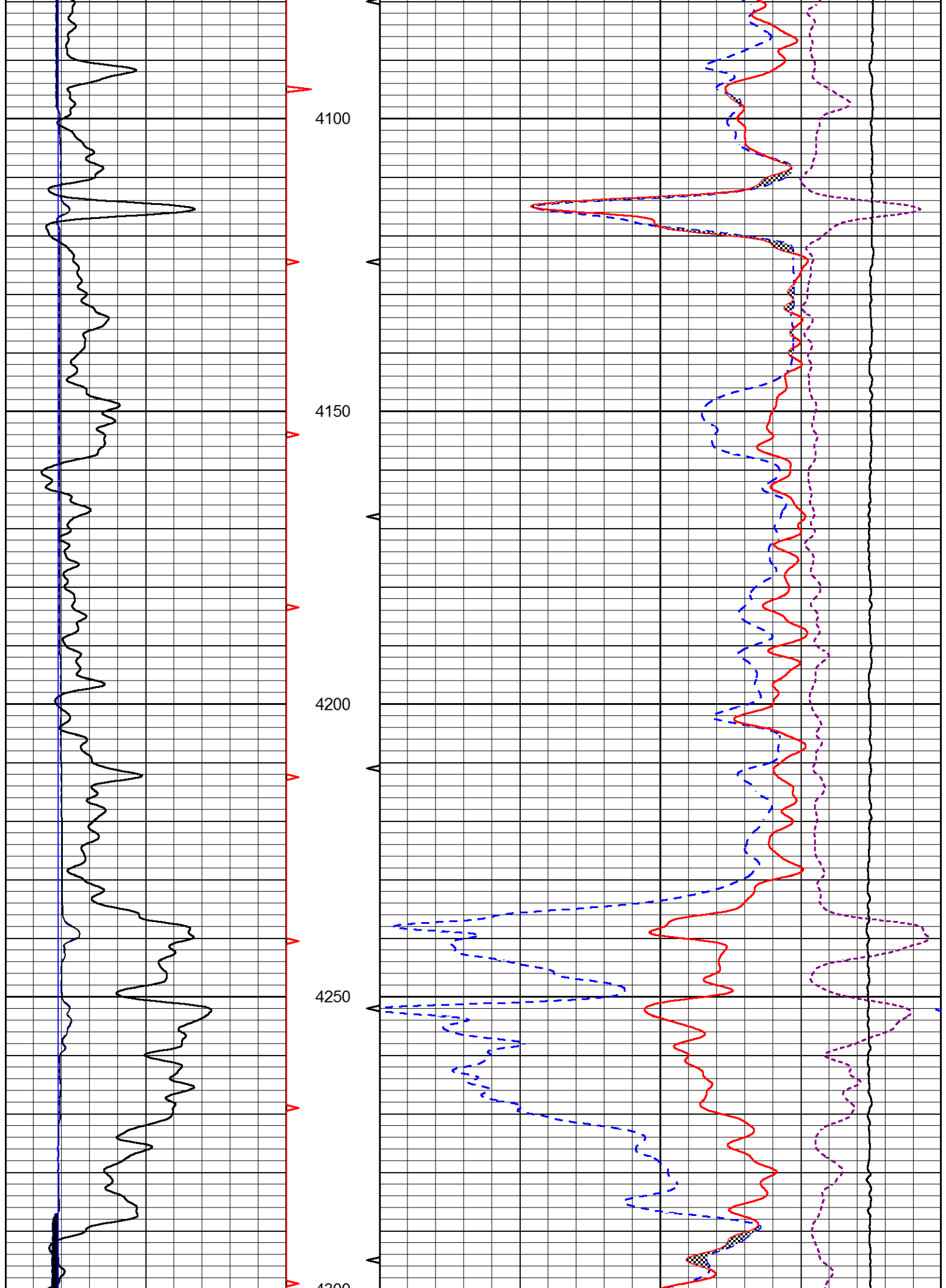
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Dataset Pathname	STKML/pass3.1
Presentation Format	_CNDLS~1
Dataset Creation	Sun Jun 28 10:20:58 2020
Charted by	Depth in Feet scaled 1:240

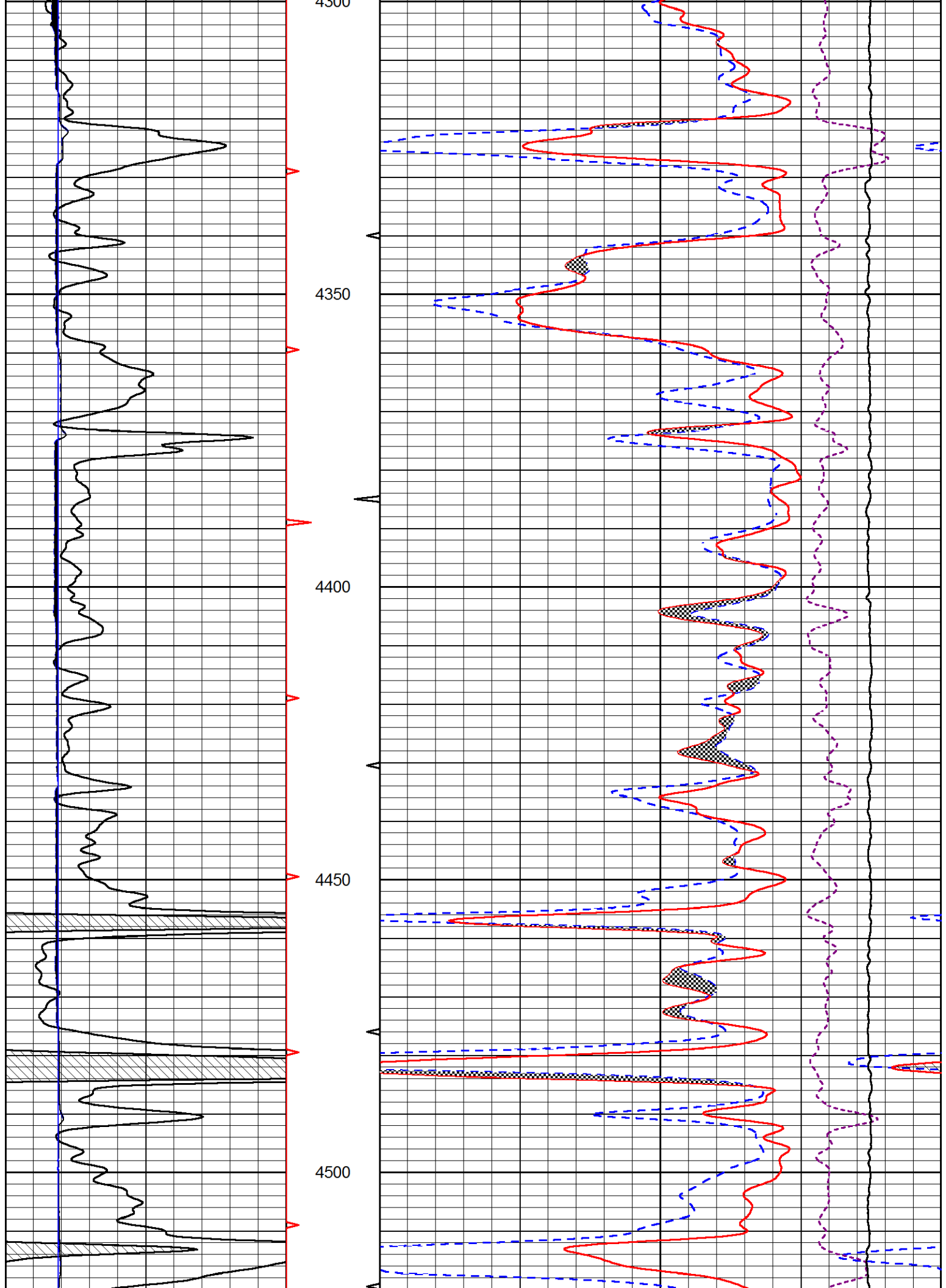
0	GAMMA RAY (GAPI)	150	30	CNLS (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
			10000	LINE TENSION (lb)	0
			-0.25	CORRECTION (g/cc)	0.25

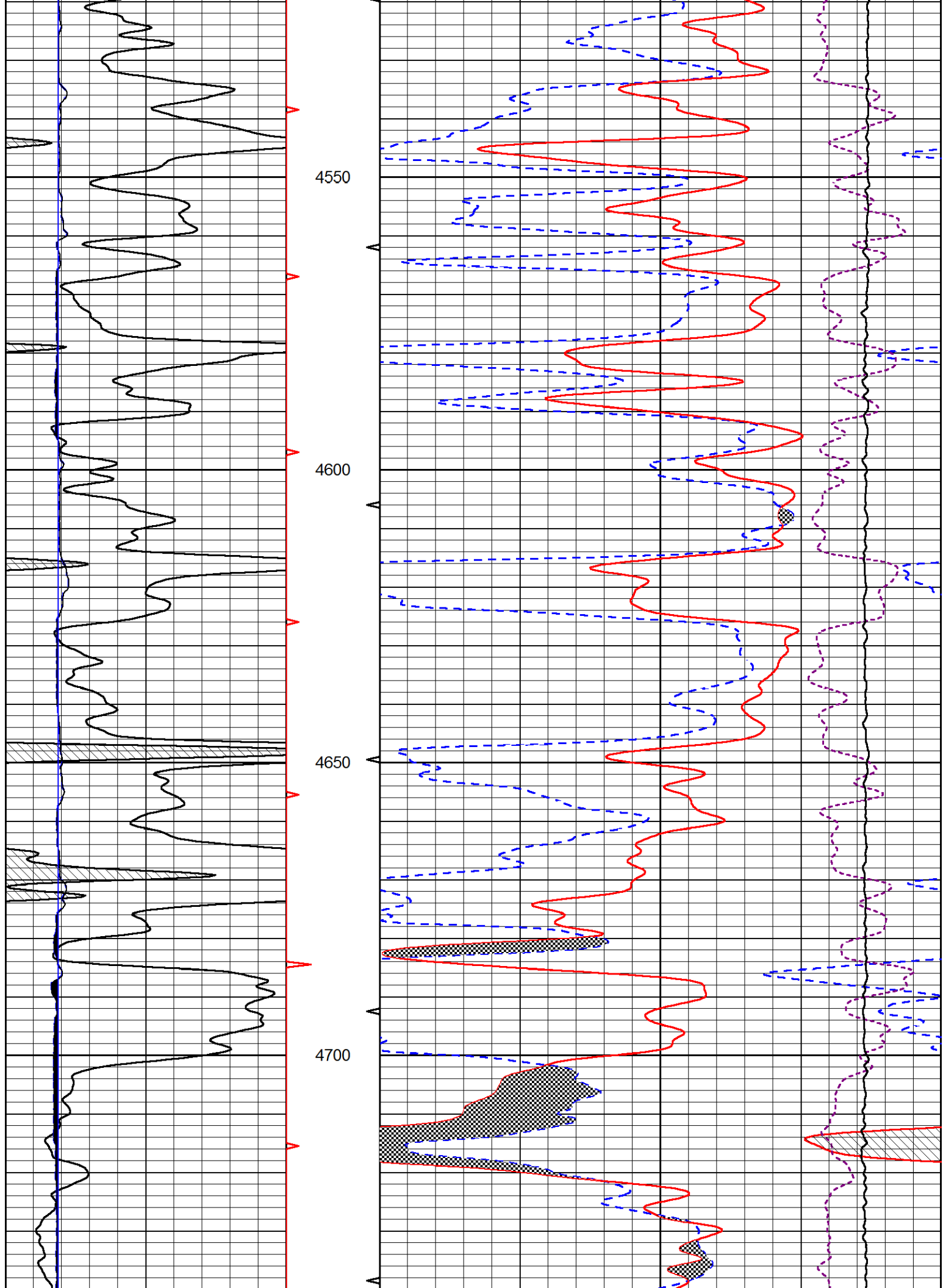


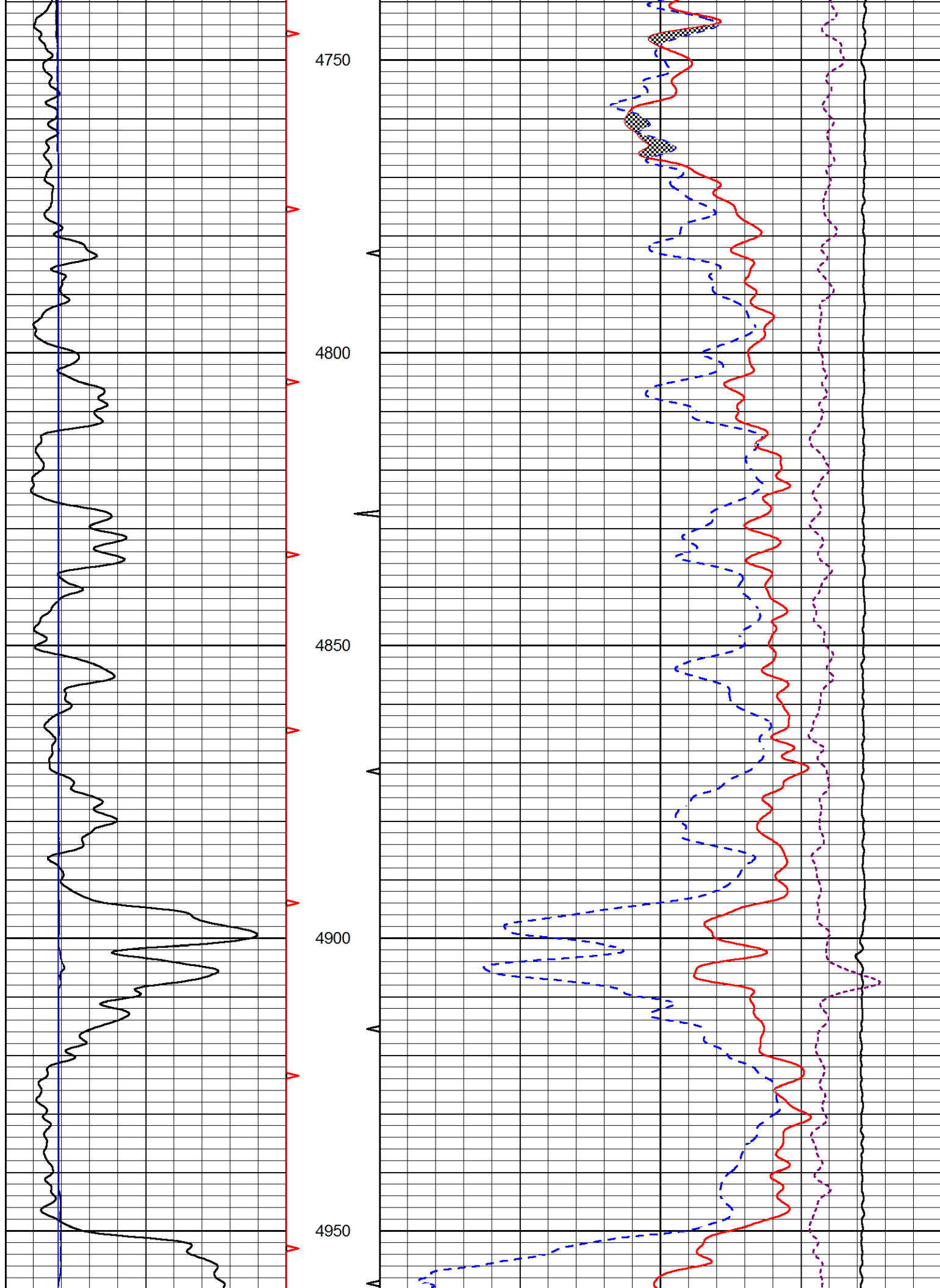


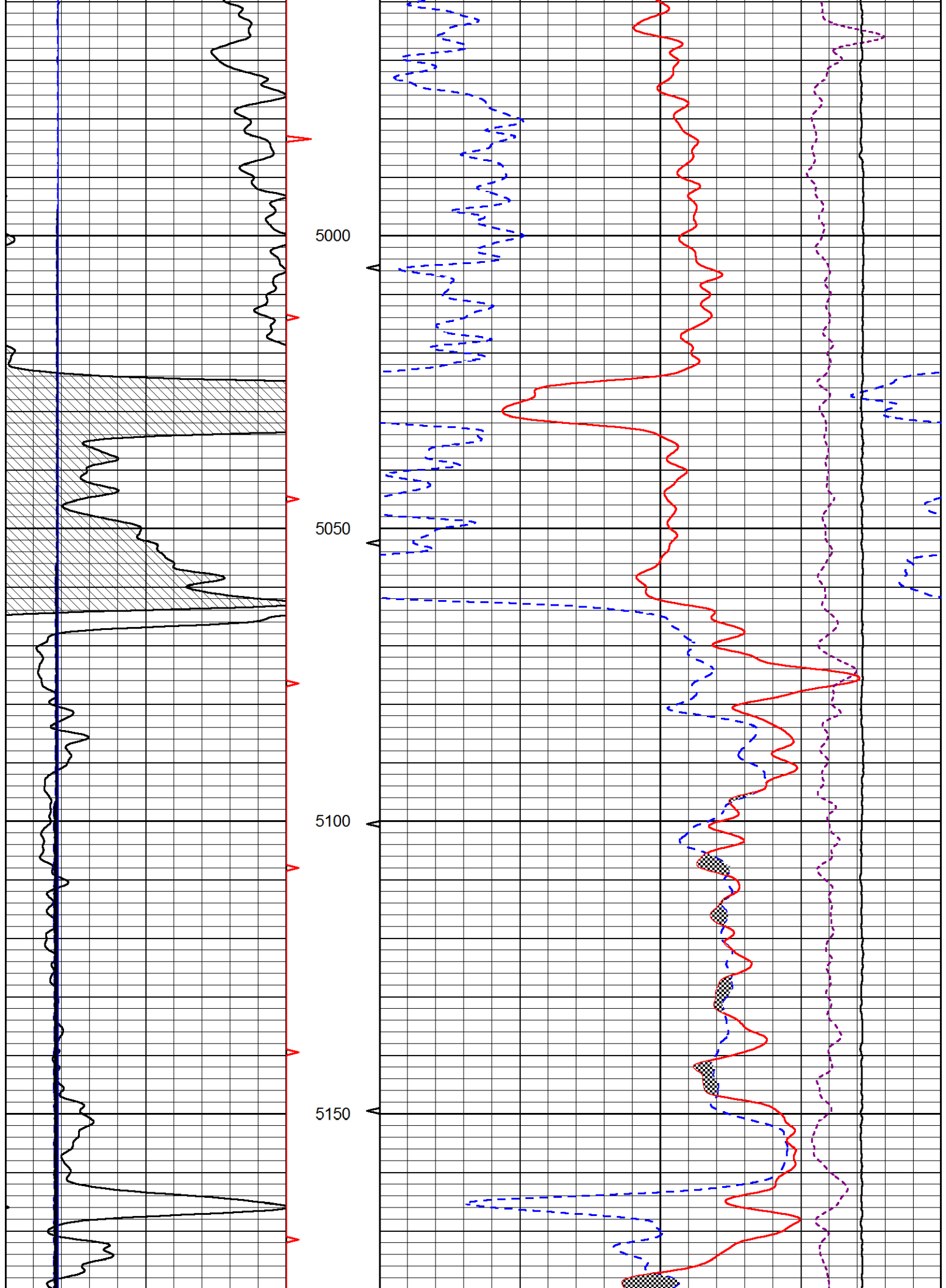


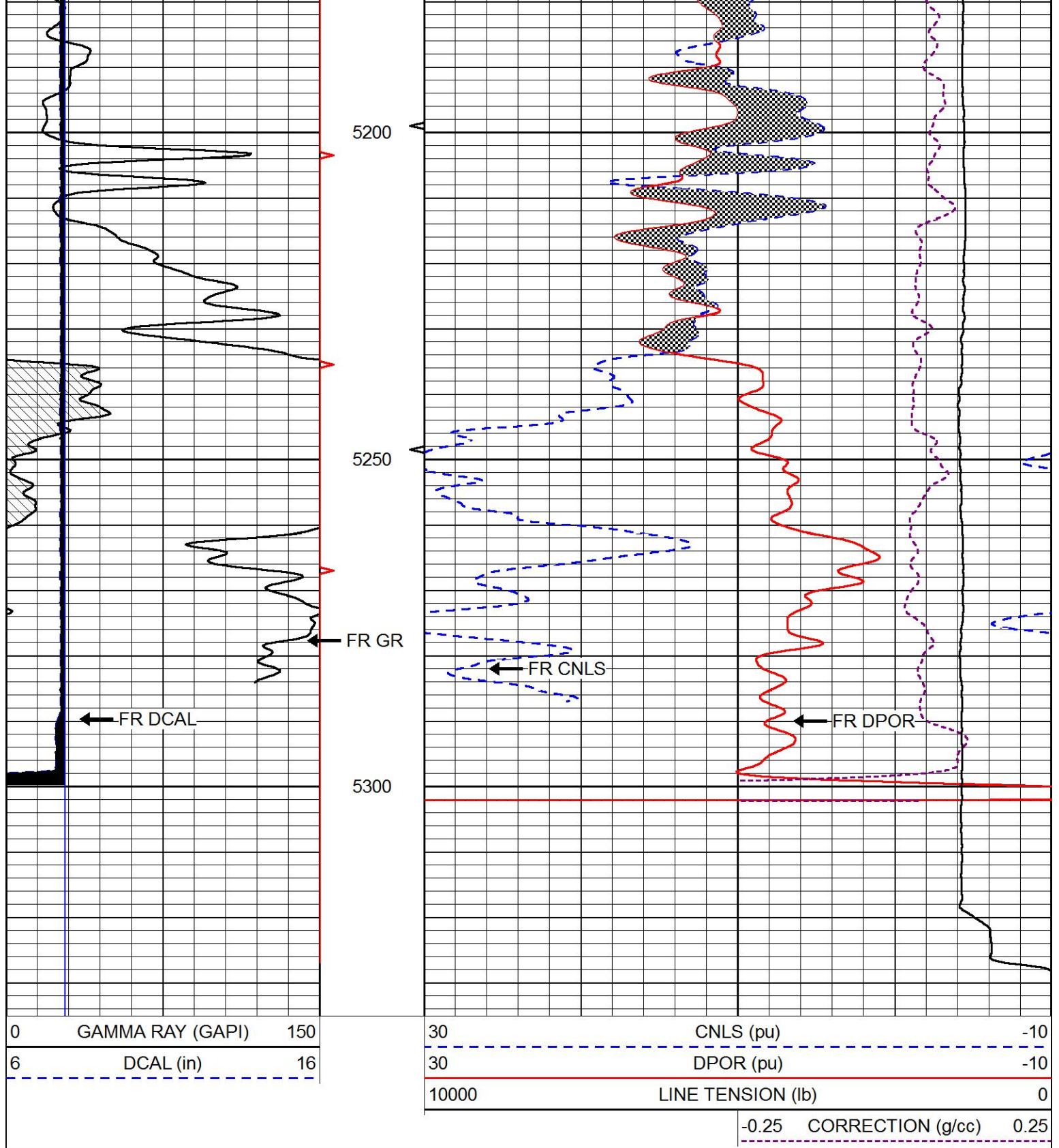












REPEAT SECTION

Database File briscoe_tammy 1.db
Dataset Pathname STKML/pass2.2
Presentation Format _CNDLS~1
Dataset Creation Sun Jun 28 10:09:46 2020
Charted by Depth in Feet scaled 1:240

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

30	CNLS (pu)	-10
30	DPOR (pu)	-10
10000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

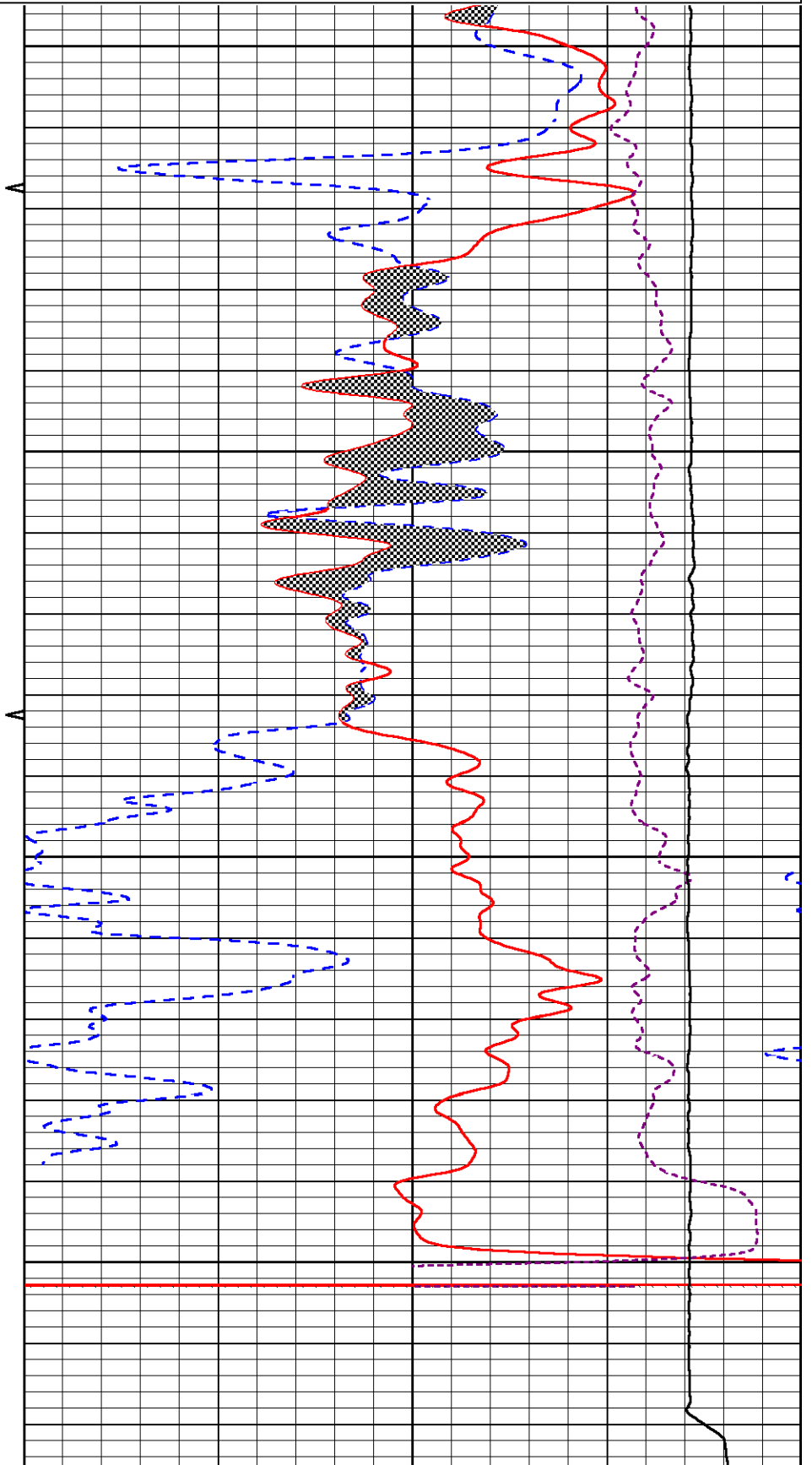


5150

5200

5250

5300



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

30	CNLS (pu)	-10
30	DPOR (pu)	-10
10000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

Calibration Report		
Database File	briscoe_tammy 1.db	
Dataset Pathname	STKML/pass3.4	
Dataset Creation	Sun Jun 28 09:44:39 2020	

Dual Induction Calibration Report

Serial-Model:	952-828-PSI HIGH TEMP
Calibration Performed:	Sun Jun 28 08:39:24 2020

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-27.500
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.325	-25.500

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Tue Jun 16 01:32:04 2020

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-1.3000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.5500

Compensated Density Calibration Report

Serial-Model:	817-947-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Tue Sep 24 21:18:50 2019

Master Calibration						
	Density		Far Detector		Near Detector	
Magnesium	1.755	g/cc	6127.15		5922.31	cps
Aluminum	2.680	g/cc	1141.85		3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.532			
	Size		Reading			
Small Ring	4.50	in	1.02			
Large Ring	14.50	in	1.23			

Compensated Neutron Calibration Report

Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	WED FEB 13 10:30:30 2019

Detector	Readings	Target	Normalization
Shallow	2240.00	1000.00	1.0005

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:	233-M&W		
Tool Model:	M&W		
Calibration Performed:	Fri Feb 07 01:42:40 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.5500	GAPI/cps	



Company	BRISCOE PETROLEUM, LLC
Well	TAMMY #1
Field	GROENDYKE
County	BARBER
State	KANSAS