



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **EVERGLOW ENERGY, LLC**
Well **HACKNEY #1-15**
Field **WILDCAT**
County **COMANCHE** State **KANSAS**

Location: API #: 15-033-21782-00-00

Other Services

SEC 15 TWP 32S RGE 17W
1980' FNL & 660' FWL

DIL/MEL

Permanent Datum **GROUND LEVEL** Elevation **2105'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 2110'
D.F. N/A
G.L. 2105'

Company **EVERGLOW ENERGY, LLC**
Well **HACKNEY #1-15**
Field **WILDCAT**
County **COMANCHE**
State **KANSAS**

Date **1/28/2018**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **5300'**

Depth Logger **5300'**

Bottom Logged Interval **5271'**

Top Logged Interval **4000'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **9000**

Density **9.3**

Level **FULL**

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

Operating Rig Time **3 HOURS**

Equipment -- Location **91 HAYS**

Recorded By **D. SCHMIDT**

Witnessed By **TOM CASTELLI**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	17.5"	0'	240'	13.375"	N/A	0'	240'
TWO	7.875"	240"	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.

COLDWATER,
10 EAST, 1 1/2 SOUTH,
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

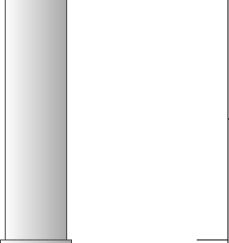
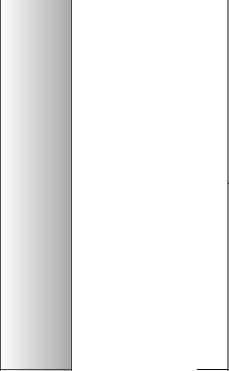
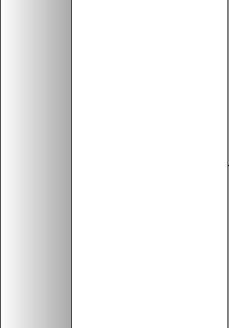
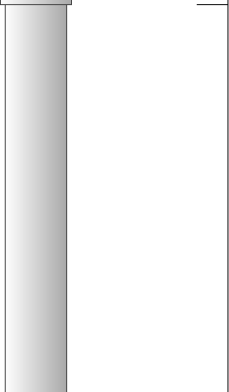
Engineer: **D. SCHMIDT**
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: **TOM CASTELLI**
Secondary Witness:
Secondary Witness:
Secondary Witness:

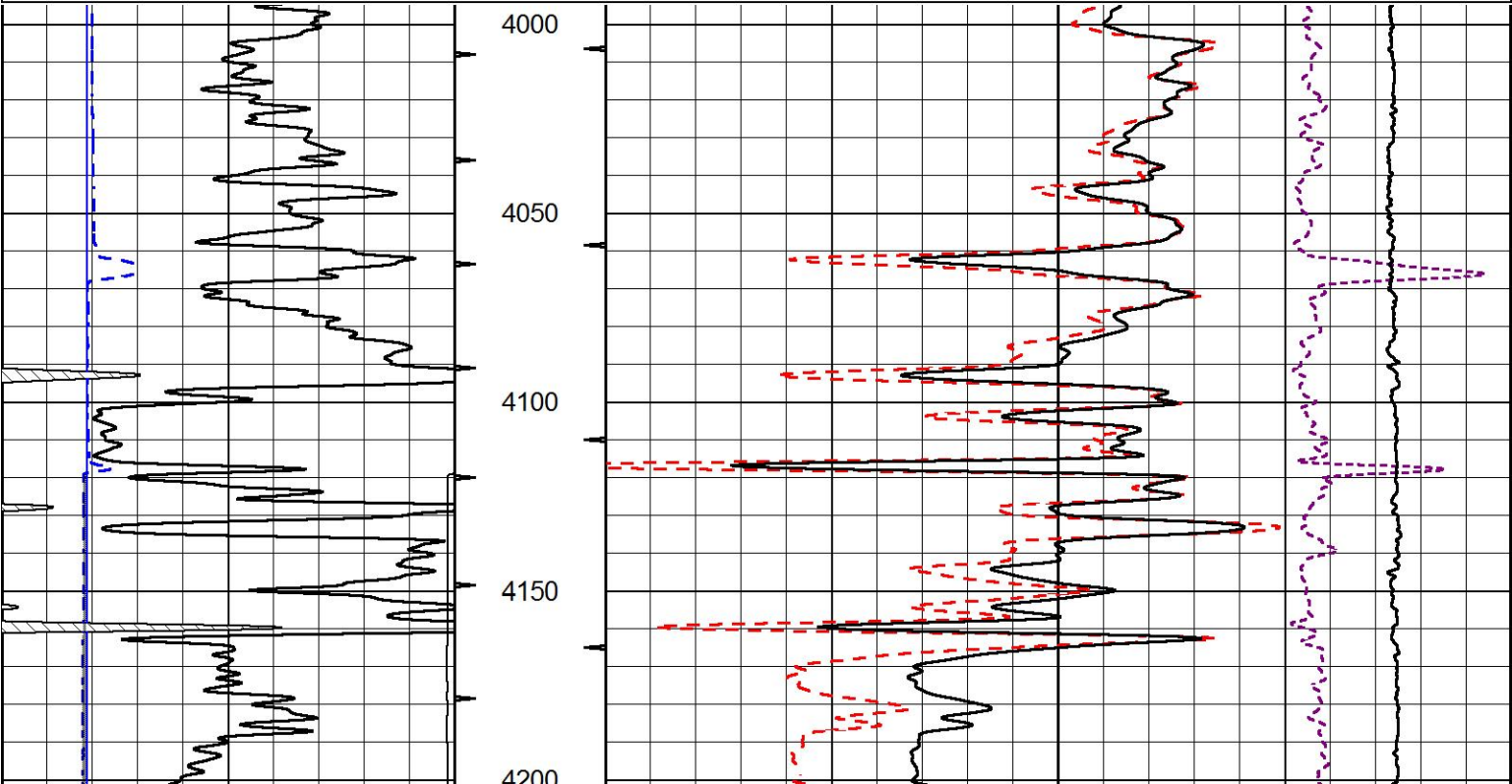
Top - Bottom

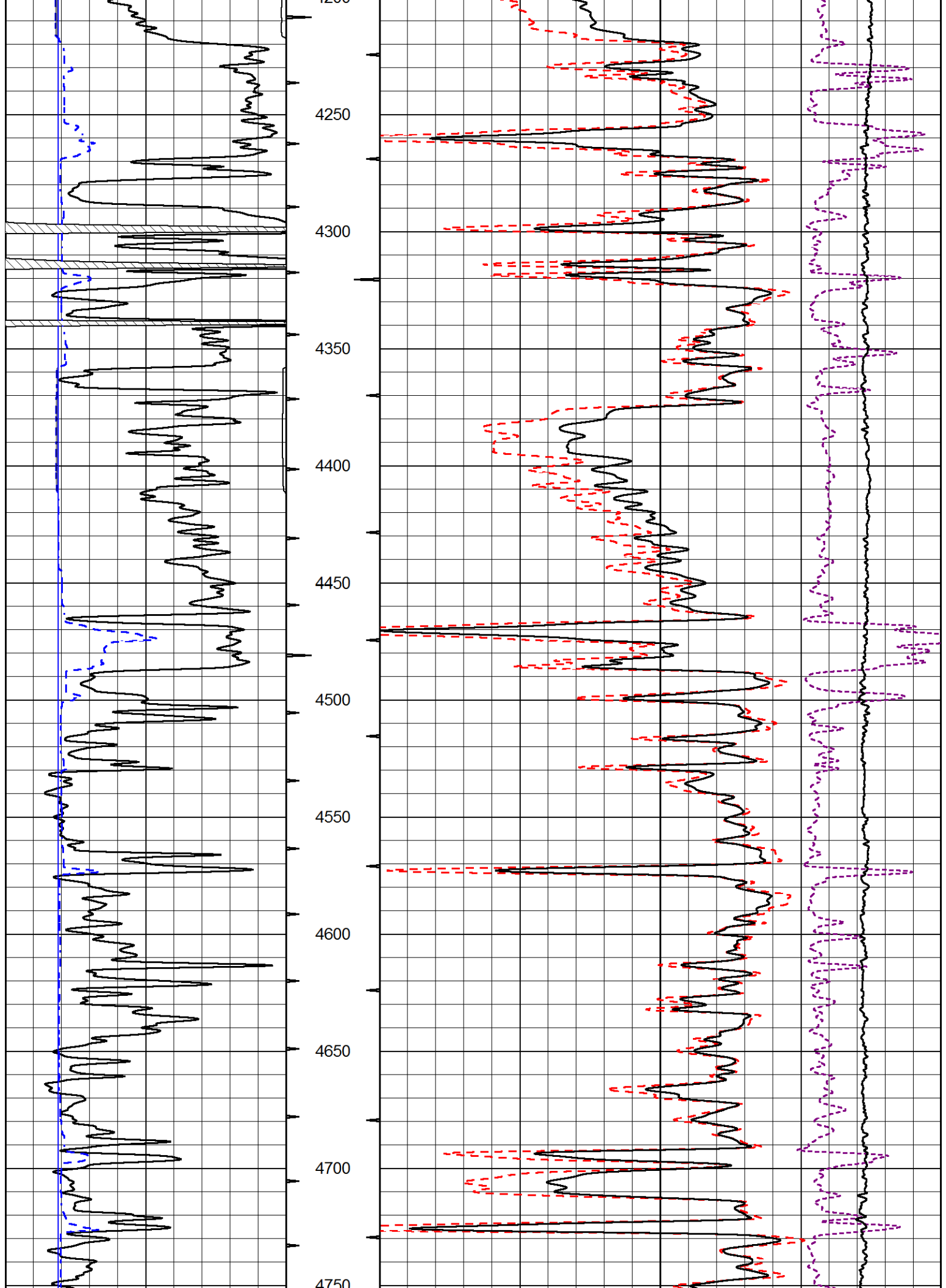
M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-147	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	5300	129	7.875

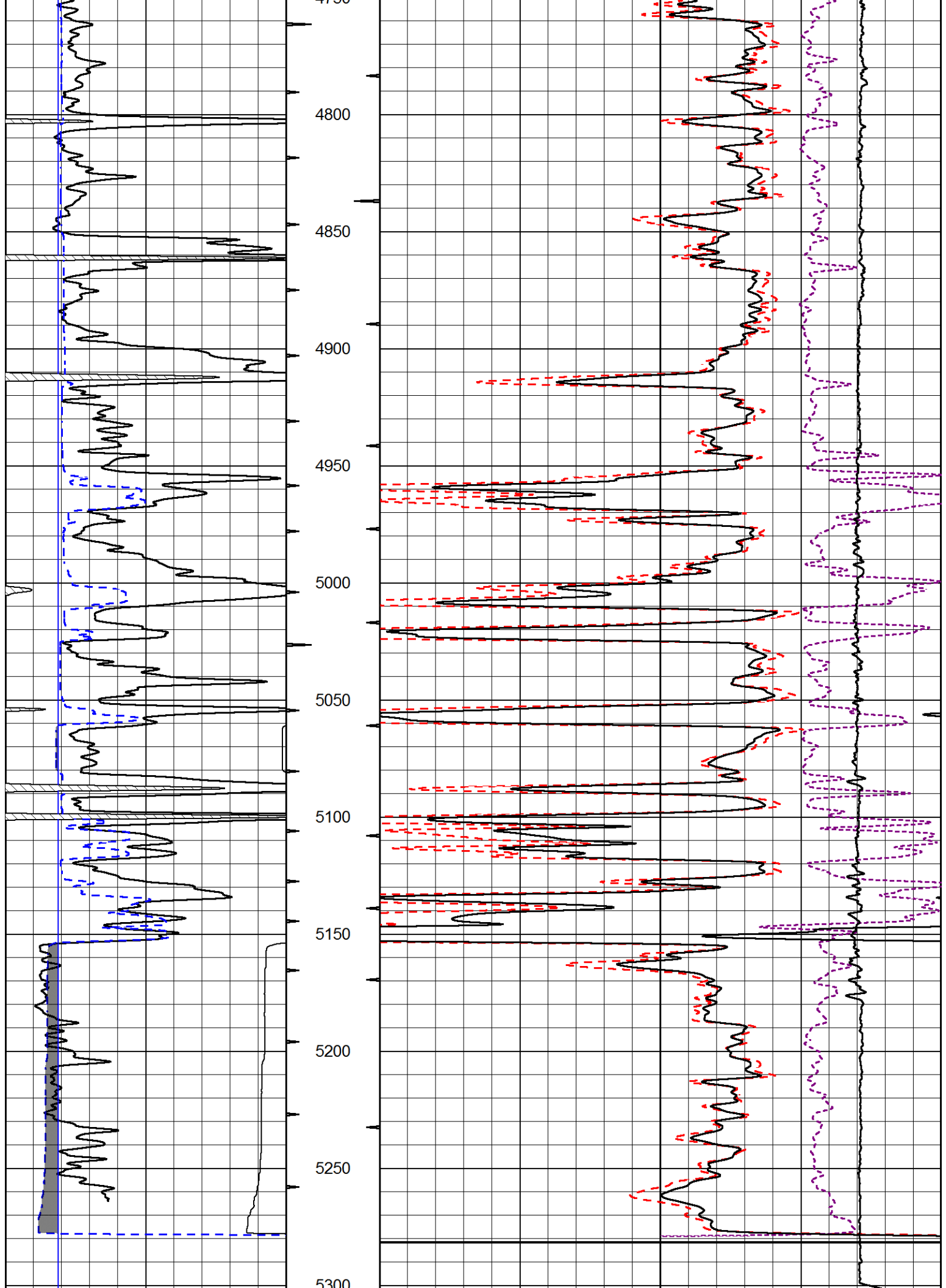
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (227-771)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

			DIL-PSI HIGH TEMP (933 (HT))	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					
Dataset: everglow_hackney 1-15.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	everglow_hackney 1-15.db				
Dataset Pathname	STKML/pass3.1				
Presentation Format	cdl				
Dataset Creation	Sun Jan 28 19:26:36 2018				
Charted by	Depth in Feet scaled 1:600				
0	Gamma Ray (GAPI)	150			
6	Caliper (in)	16			
			Compensated Density (2.71 MA)		
			(pu)		
			30		-10
			Bulk Density (g/cc)		
			2		3
			Line Tension (lb)		
			15000		0
			Correction (g/cc)		
			-0.25		0.25







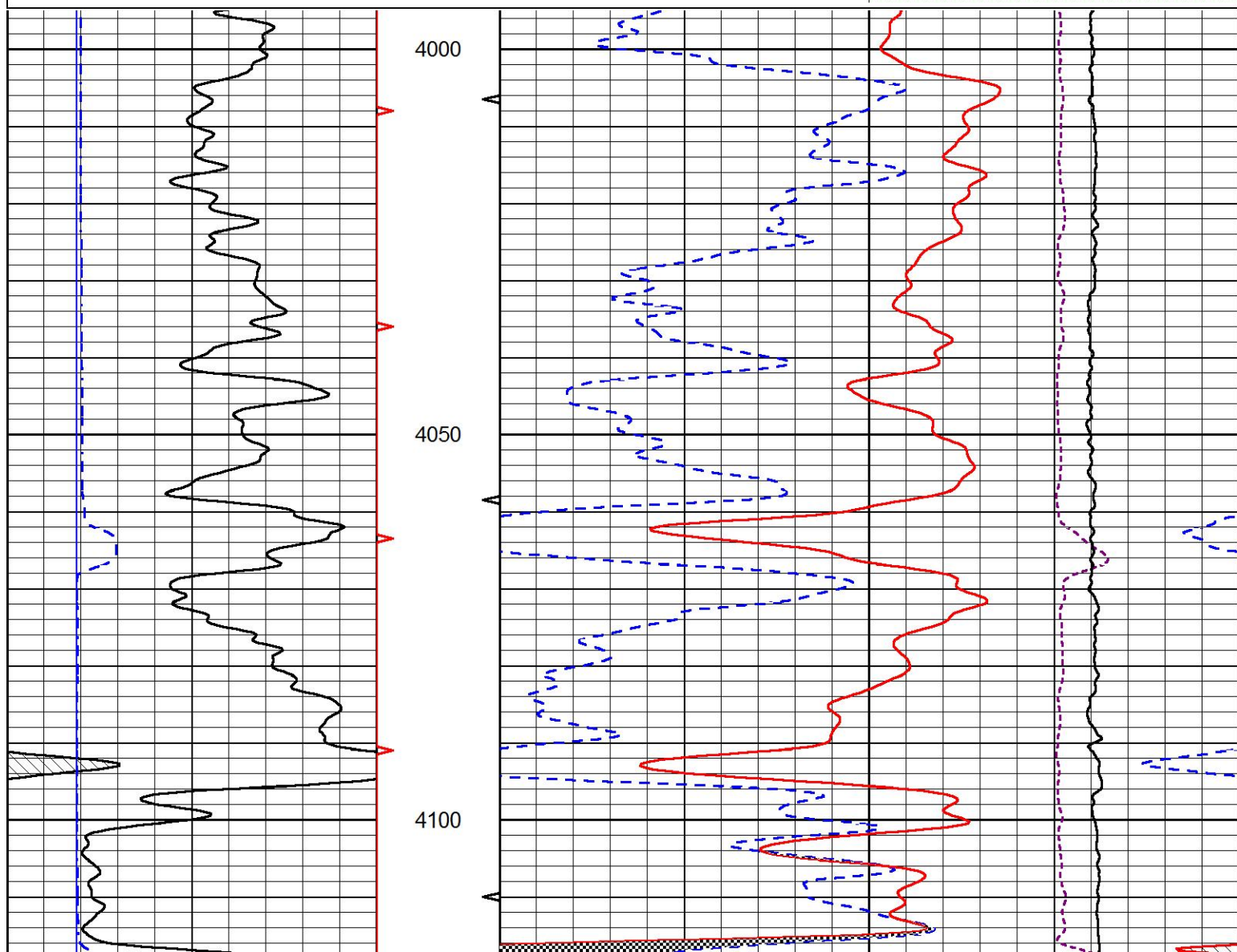
0	Gamma Ray (GAPI)	150	Compensated Density (2.71 MA)	
6	Caliper (in)	16	30	(pu) -10
			2	Bulk Density (g/cc) 3
			15000	Line Tension (lb) 0
			-0.25	Correction (g/cc) 0.25

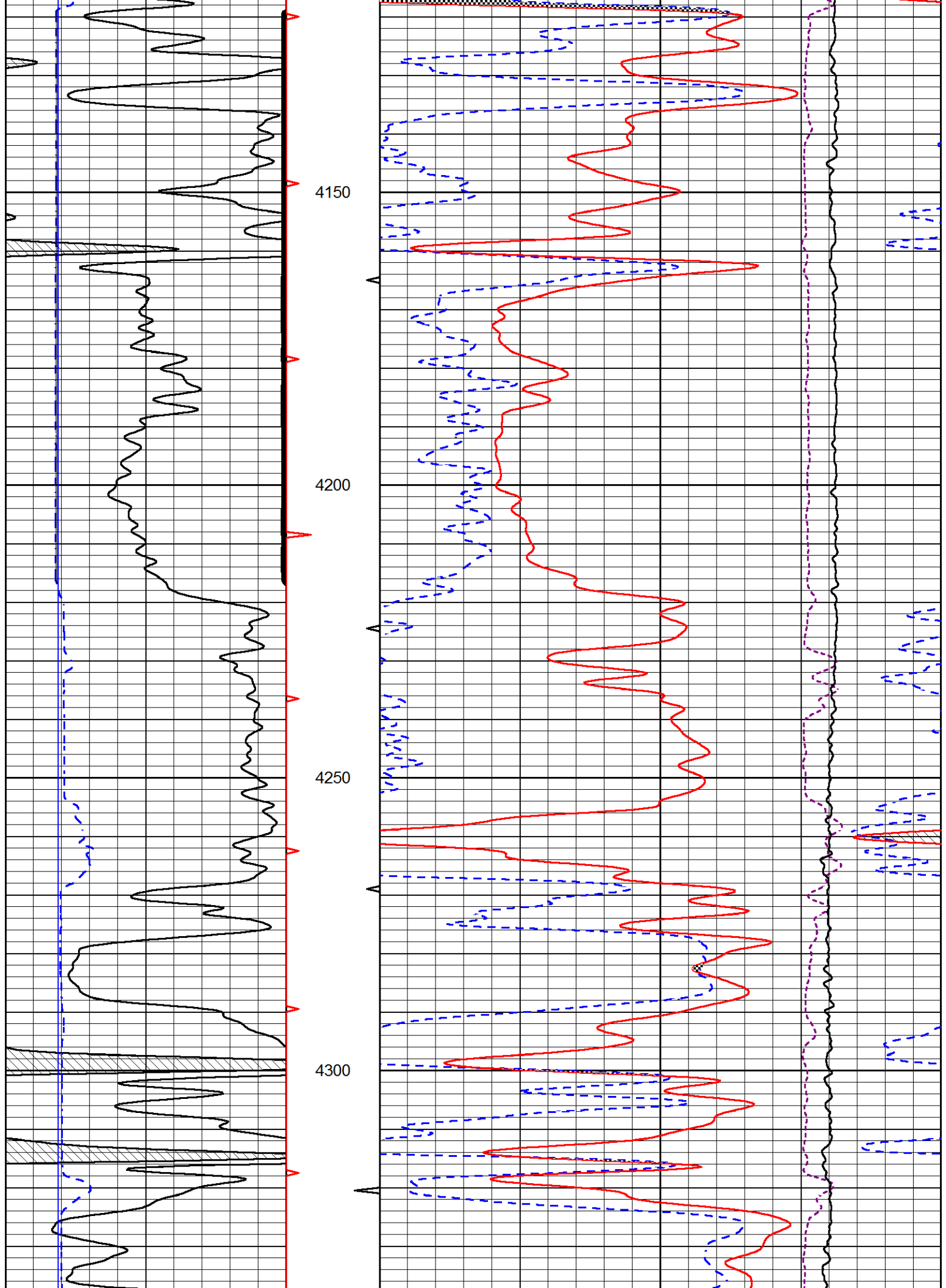


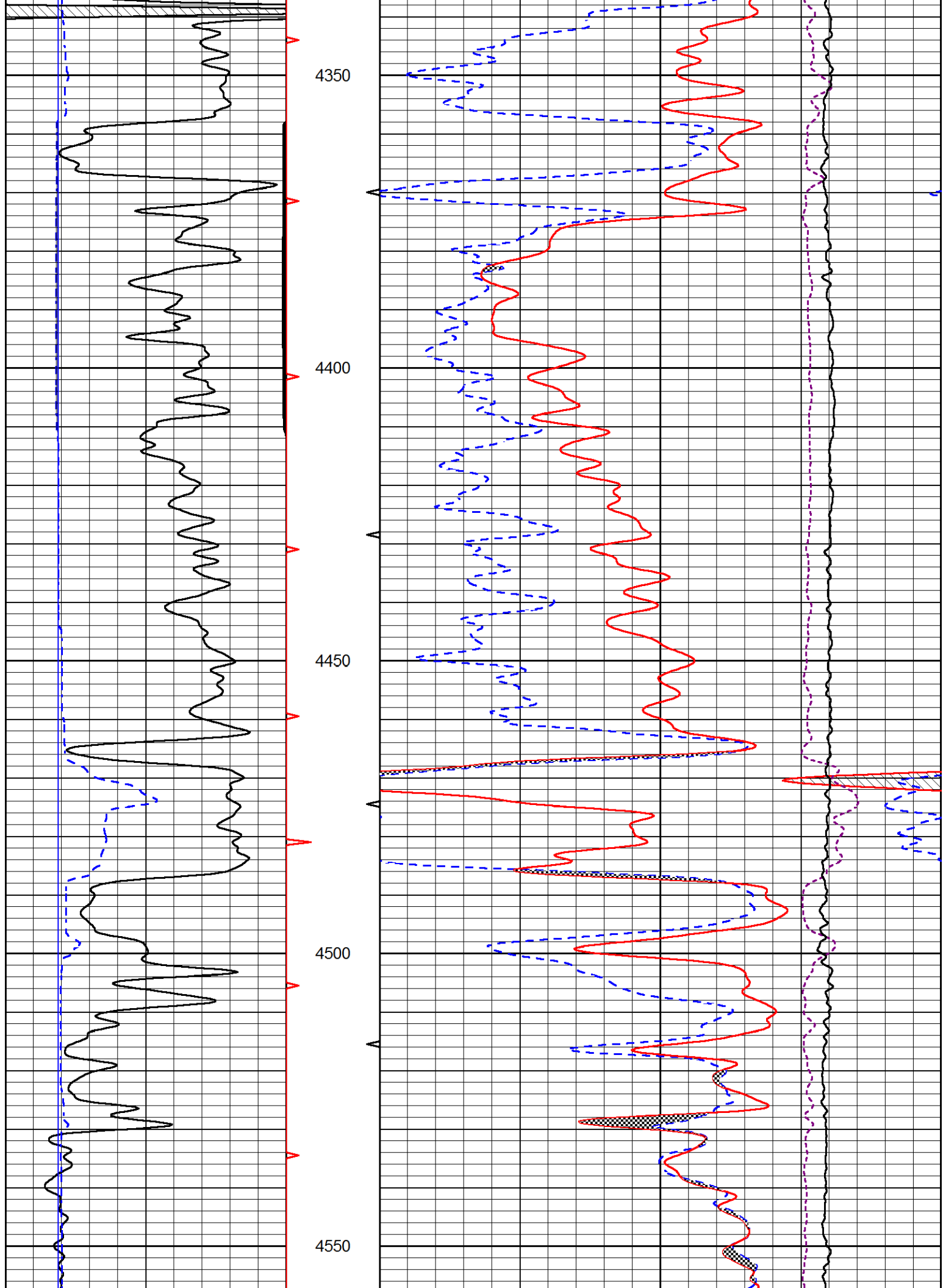
MAIN PASS

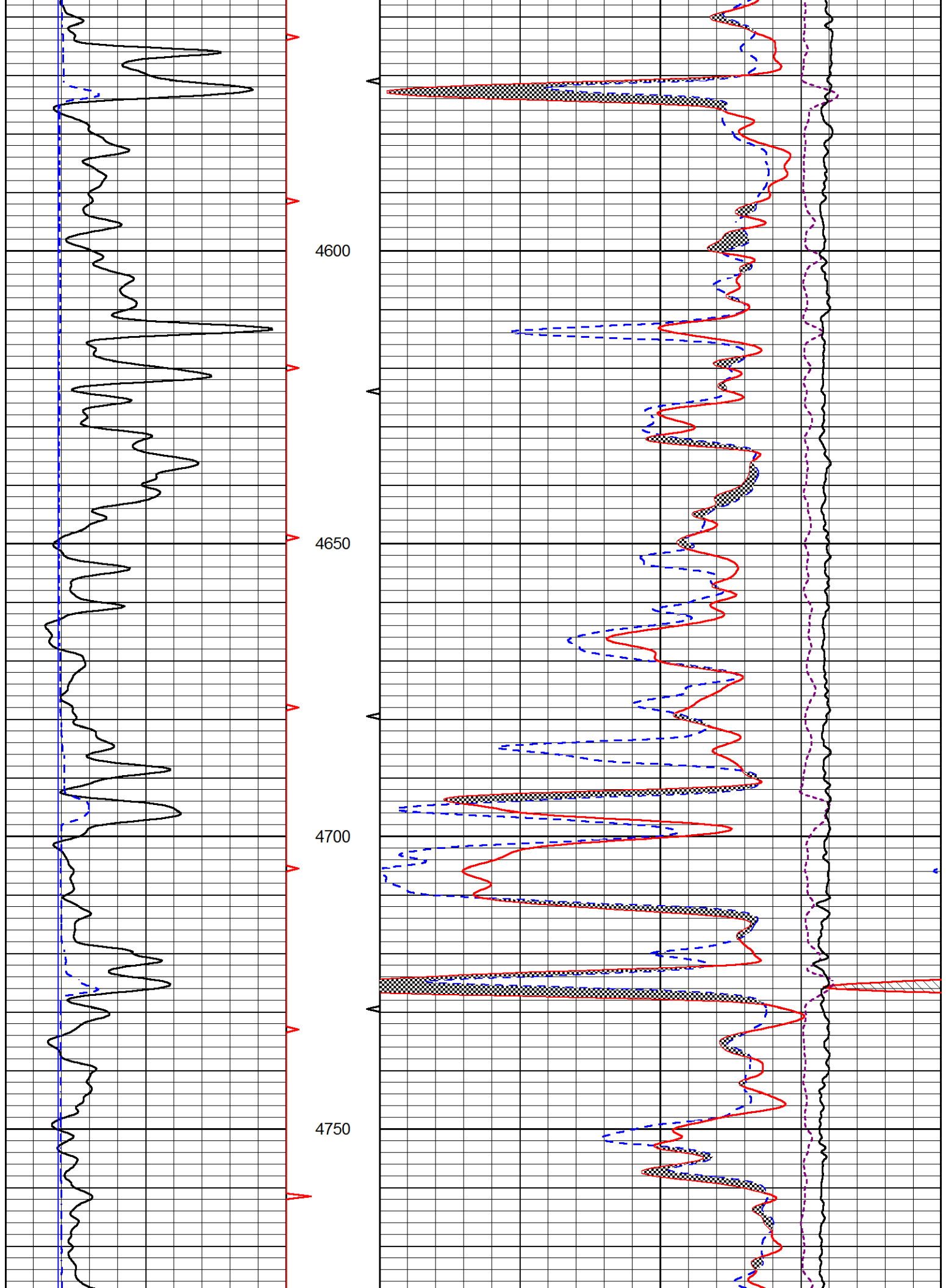
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Dataset Pathname STKML/pass3.1
Presentation Format cndlspec
Dataset Creation Sun Jan 28 19:26:36 2018
Charted by Depth in Feet scaled 1:240

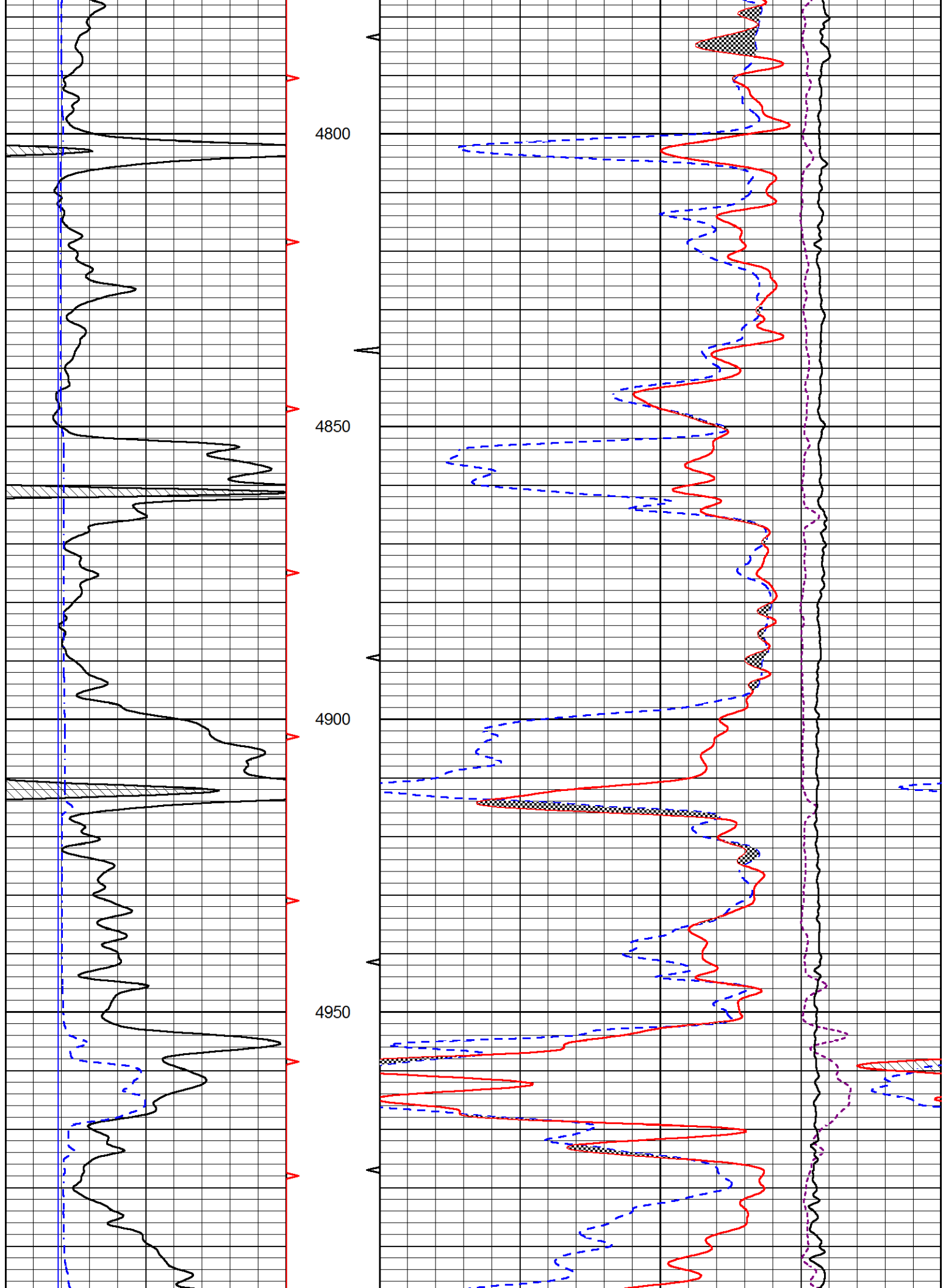
0	Gamma Ray (GAPI)	150	30	CNLS (pu) -10
6	DCAL (in)	16	30	Compensated Density 2.71 g/cc (pu) -10
			10000	Line Tension (lb) 0
			-0.75	Correction (g/cc) 0.75

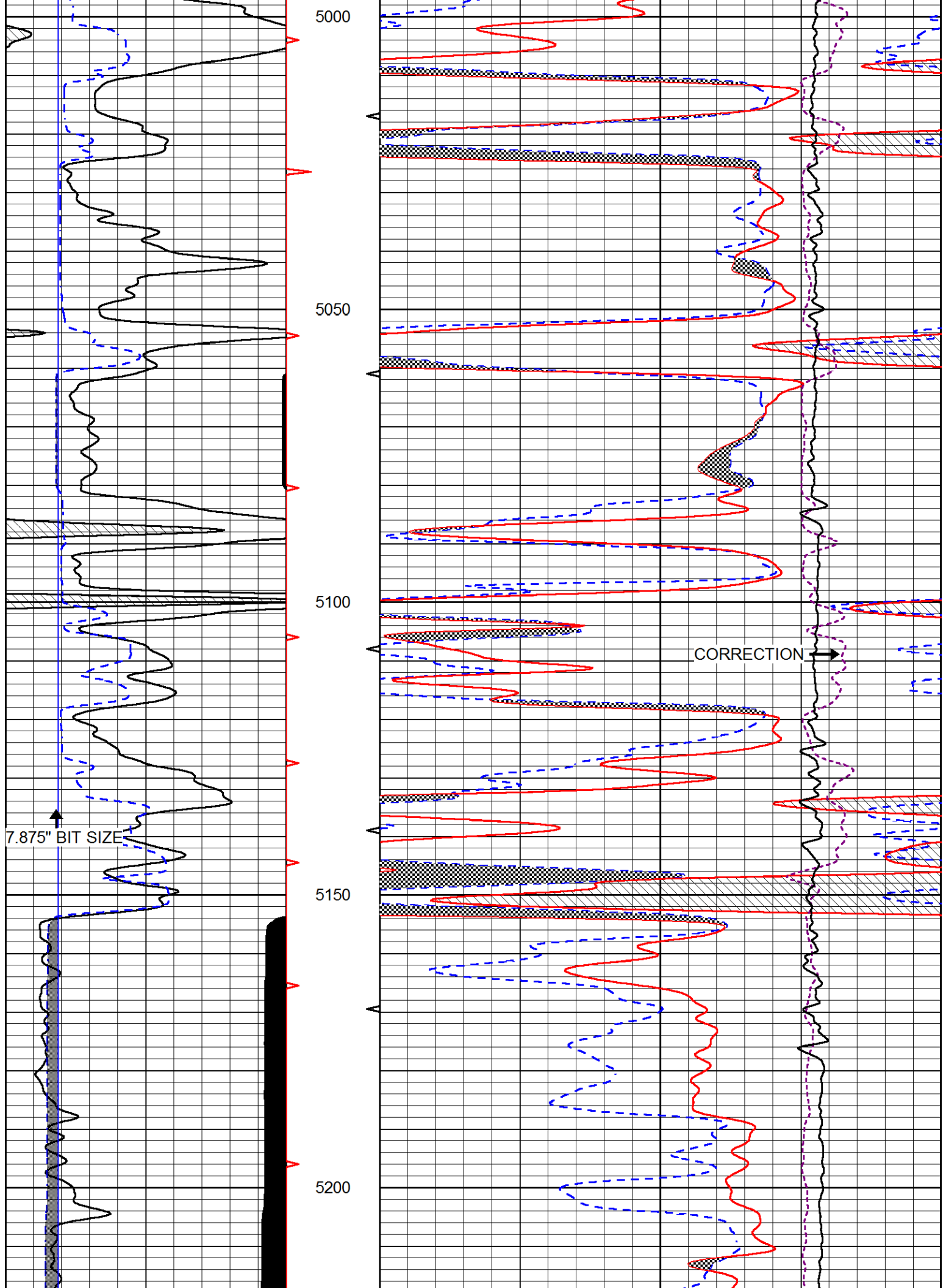


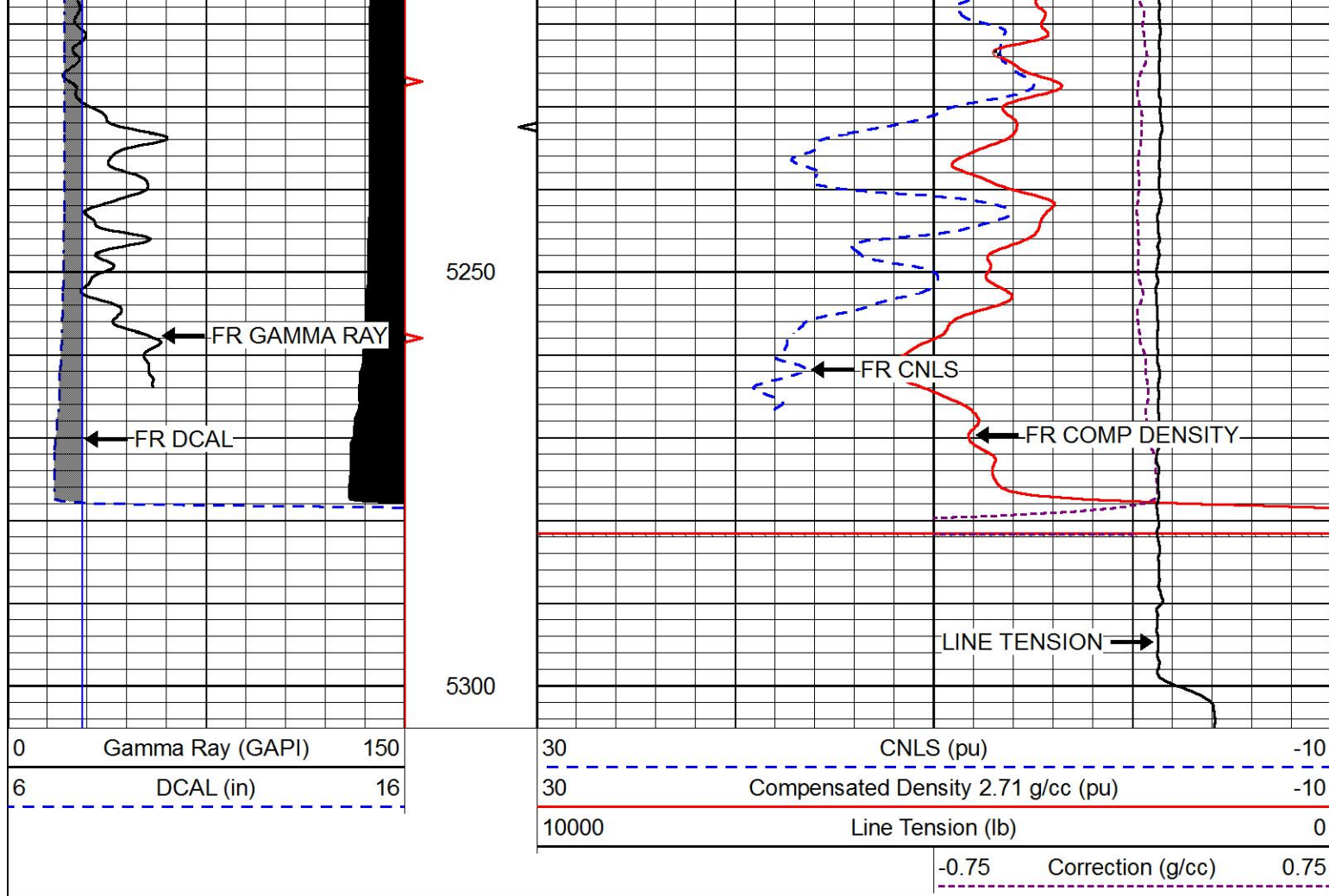






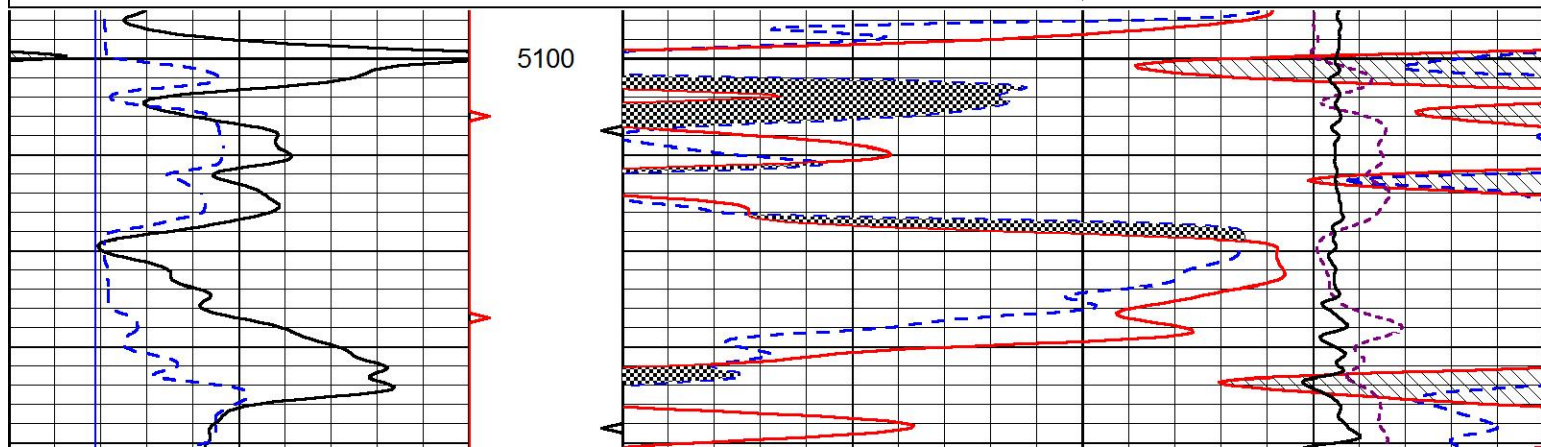
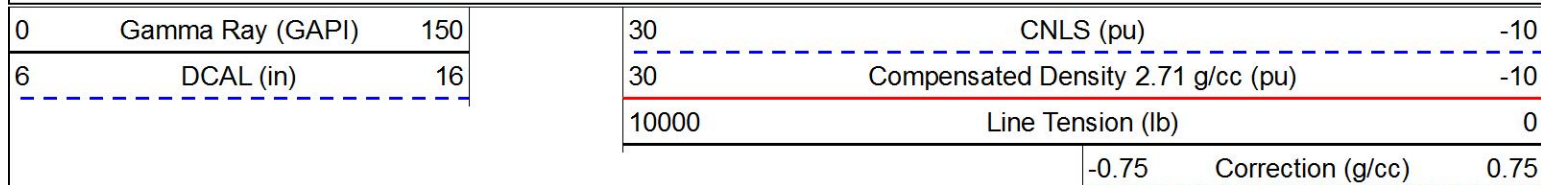


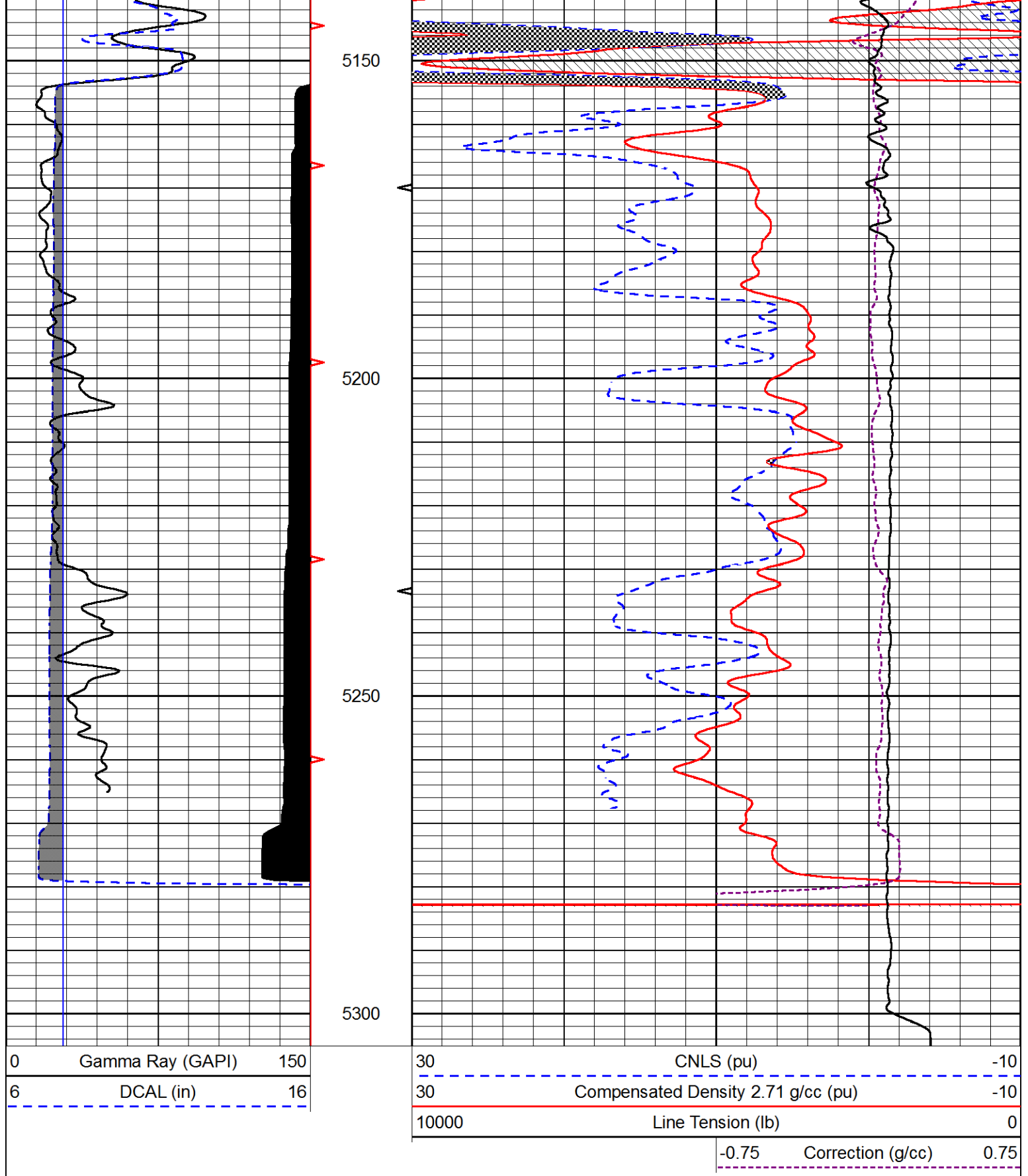




REPEAT SECTION

Database File: everglow_hackney 1-15.db
 Dataset Pathname: STKML/pass2.2
 Presentation Format: cndlspec
 Dataset Creation: Sun Jan 28 18:20:08 2018
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File everglow_hackney 1-15.db
Dataset Pathname STKML/pass3.1
Dataset Creation Sun Jan 28 19:26:36 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
Calibration Performed: Sun Jan 28 18:12:06 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.720	-21.000
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.560	-60.500

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	35000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	41000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Sat Jan 27 18:11:20 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.522		
	Size		Reading		
Small Ring	8.00	in	1.84		
Large Ring	22.00	in	1.46		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: MON JAN 15 10:30:30 2018

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: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



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State	KANSAS