



PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **CHARLES N. GRIFFIN**
Well **SHERRY #3-9**
Field **MEDICINE LODGE - BOGGS**
County **BARBER** State **KANSAS**

Location: API #: 15-007-24319-00-00

Other Services

SEC 9 TWP 33S RGE 12W
330' FNL & 330' FWL

DIL

Permanent Datum GROUND LEVEL Elevation 1535'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1546'
D.F. N/A
G.L. 1535'

Company **CHARLES N. GRIFFIN**
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County **BARBER**
State **KANSAS**

Date 5/23/2017

Run Number ONE

Type Log CNL/CDL

Depth Driller 4875'

Depth Logger 4875'

Bottom Logged Interval 4854'

Top Logged Interval 3400'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 4000

Density 9.4

Level FULL

Max. Rec. Temp. F 125

Operating Rig Time 3 HOURS

Equipment -- Location 91 HAYS

Recorded By D. SCHMIDT

Witnessed By CHARLES GRIFFIN

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	261'	8.625"	23#	0'	261'
TWO	7.875"	261'	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 SUMAC RD, 3 WEST TO CATTLE GUARD,
1/4 WEST, 1 NORTH, 1 WEST, 1 SOUTH,
WEST AND SOUTH TO LOCATION

Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

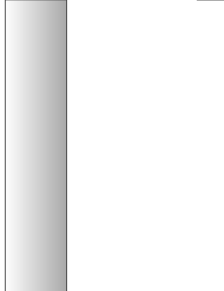
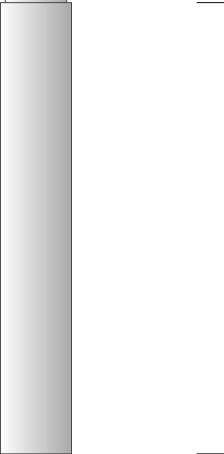
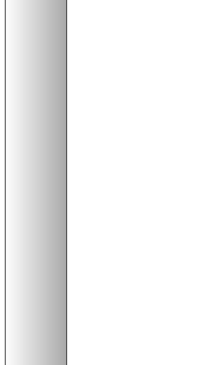
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: CHARLES GRIFFIN
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	250	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	0	0	5.5	0	0	100	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (90-1031)	8.50	4.00	250.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-M&W (PSI 91)	18.50	3.50	220.00

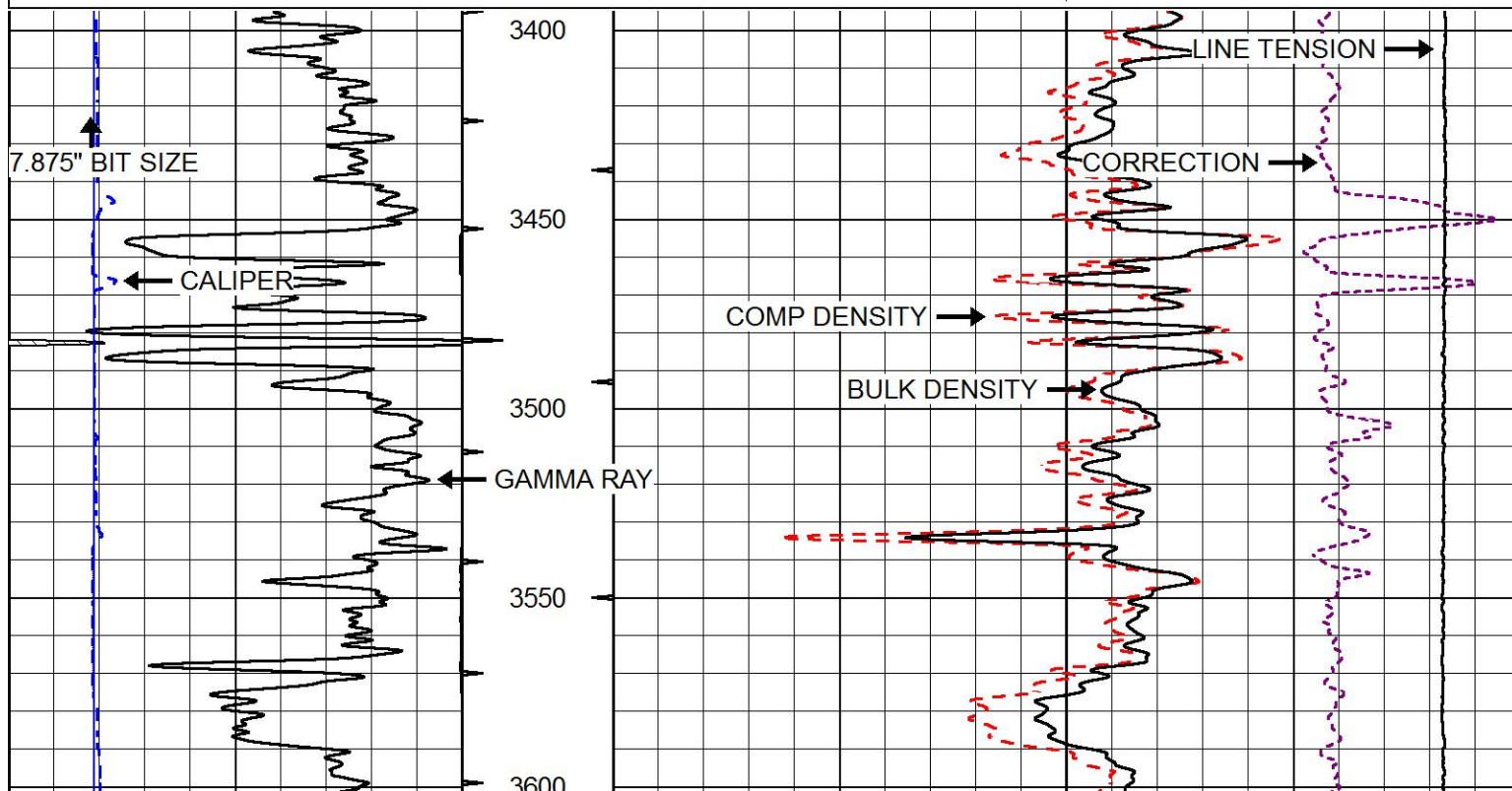
CILM	4.70								
SP	0.20								
Dataset: charles griffin__sherry 3-9.db: field/well/STACK/pass5.2 Total length: 35.50 ft Total weight: 620.00 lb O.D.: 4.00 in									

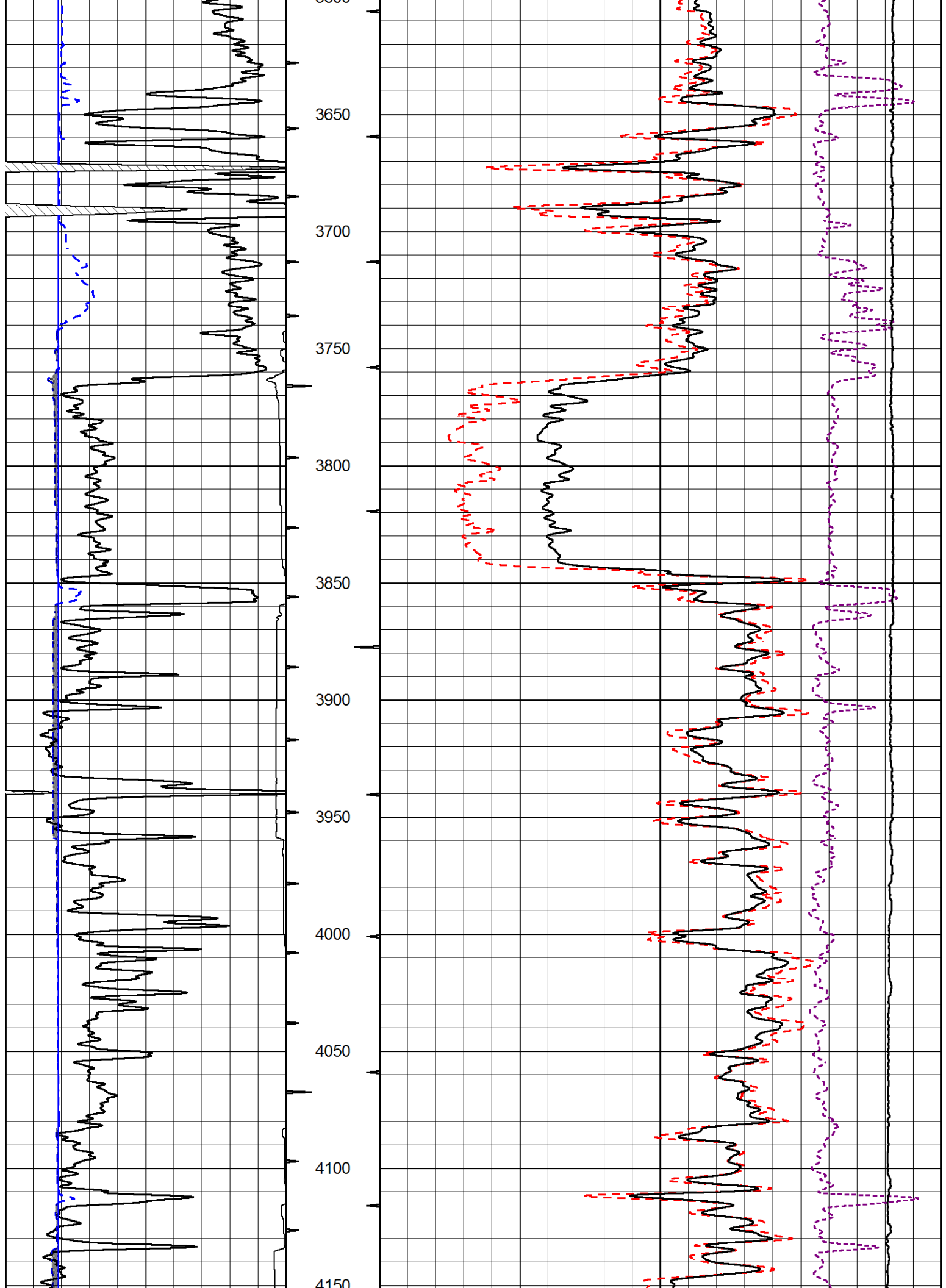


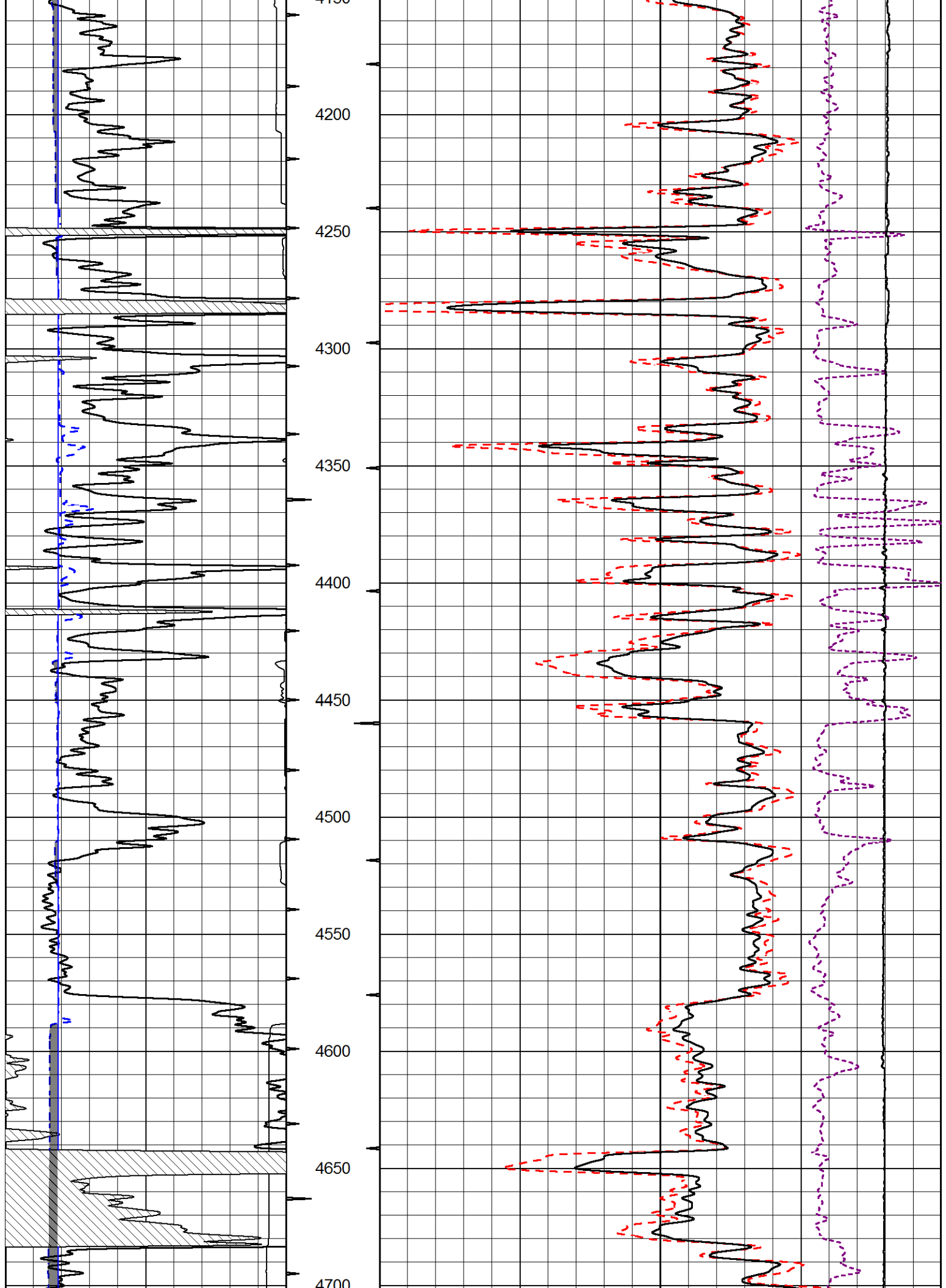
MAIN PASS

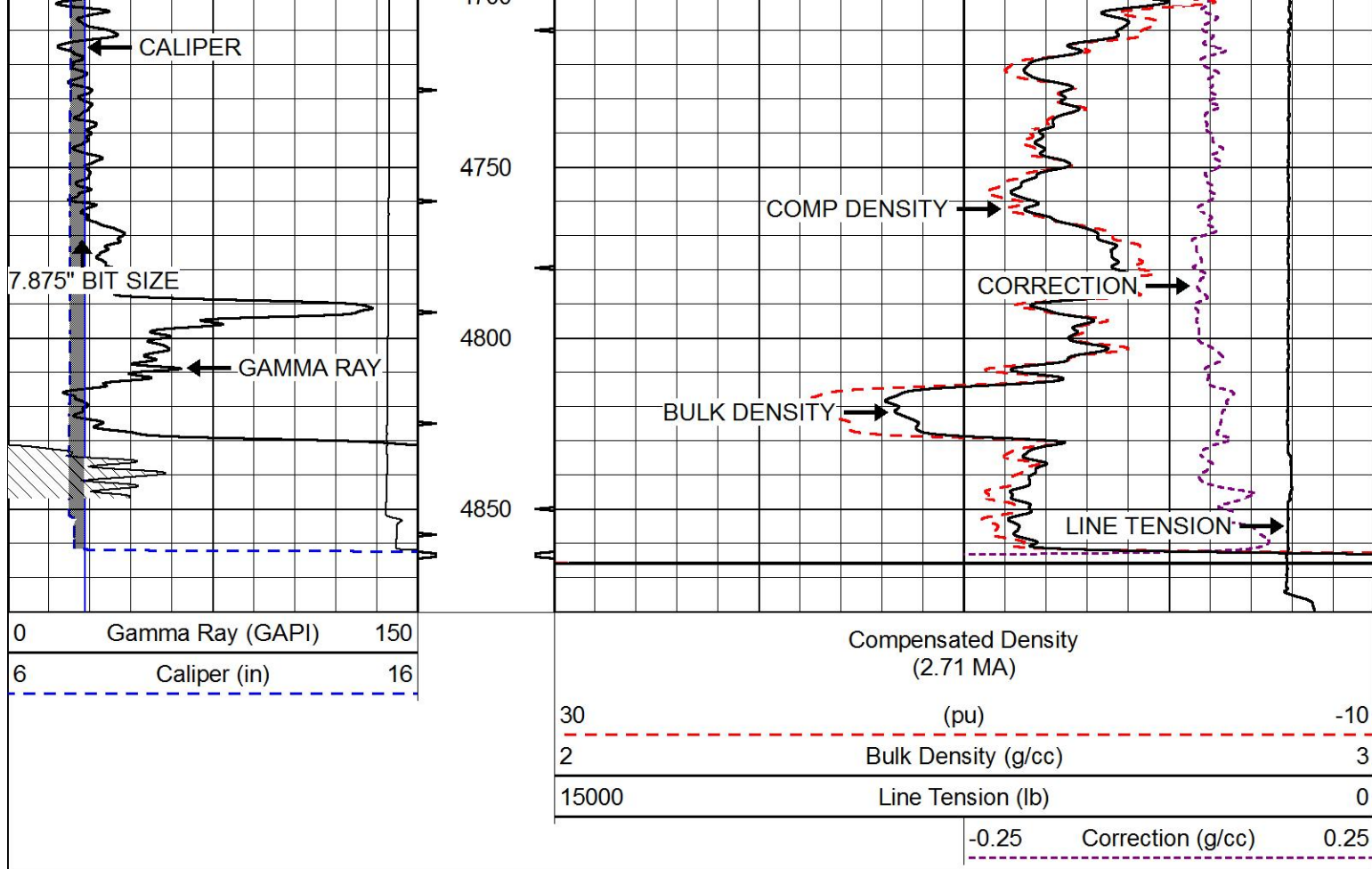
Database File	charles griffin__sherry 3-9.db
Dataset Pathname	STACK/pass5.1
Presentation Format	cdl
Dataset Creation	Tue May 23 02:16:46 2017
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (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		











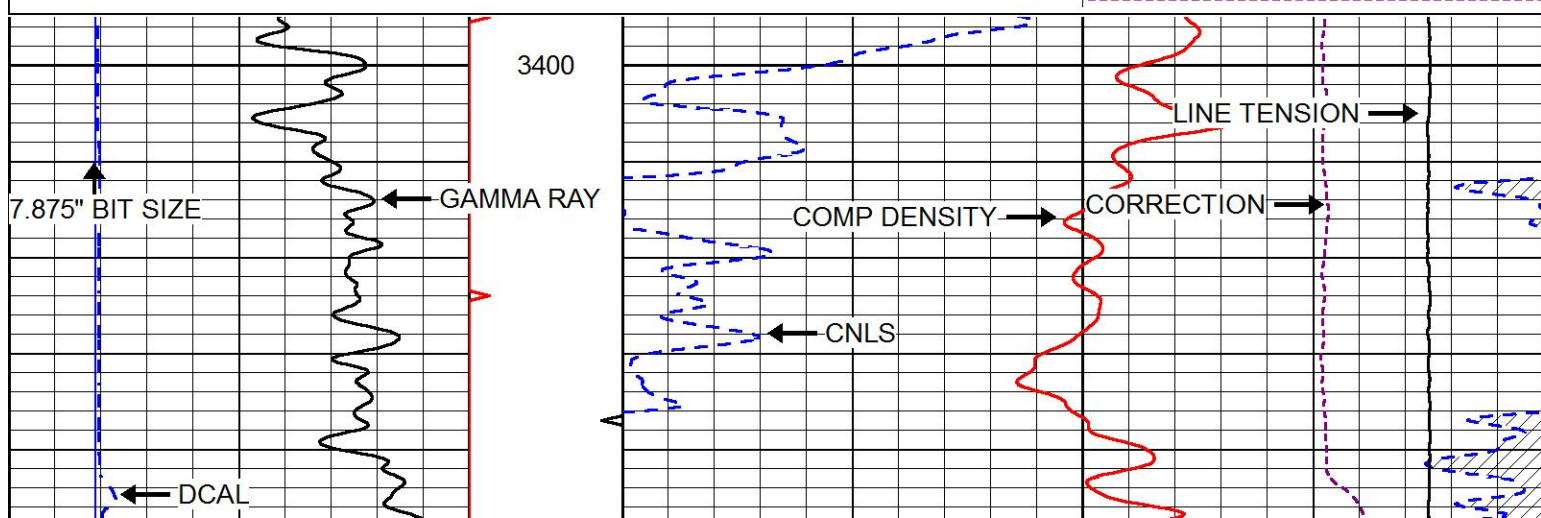
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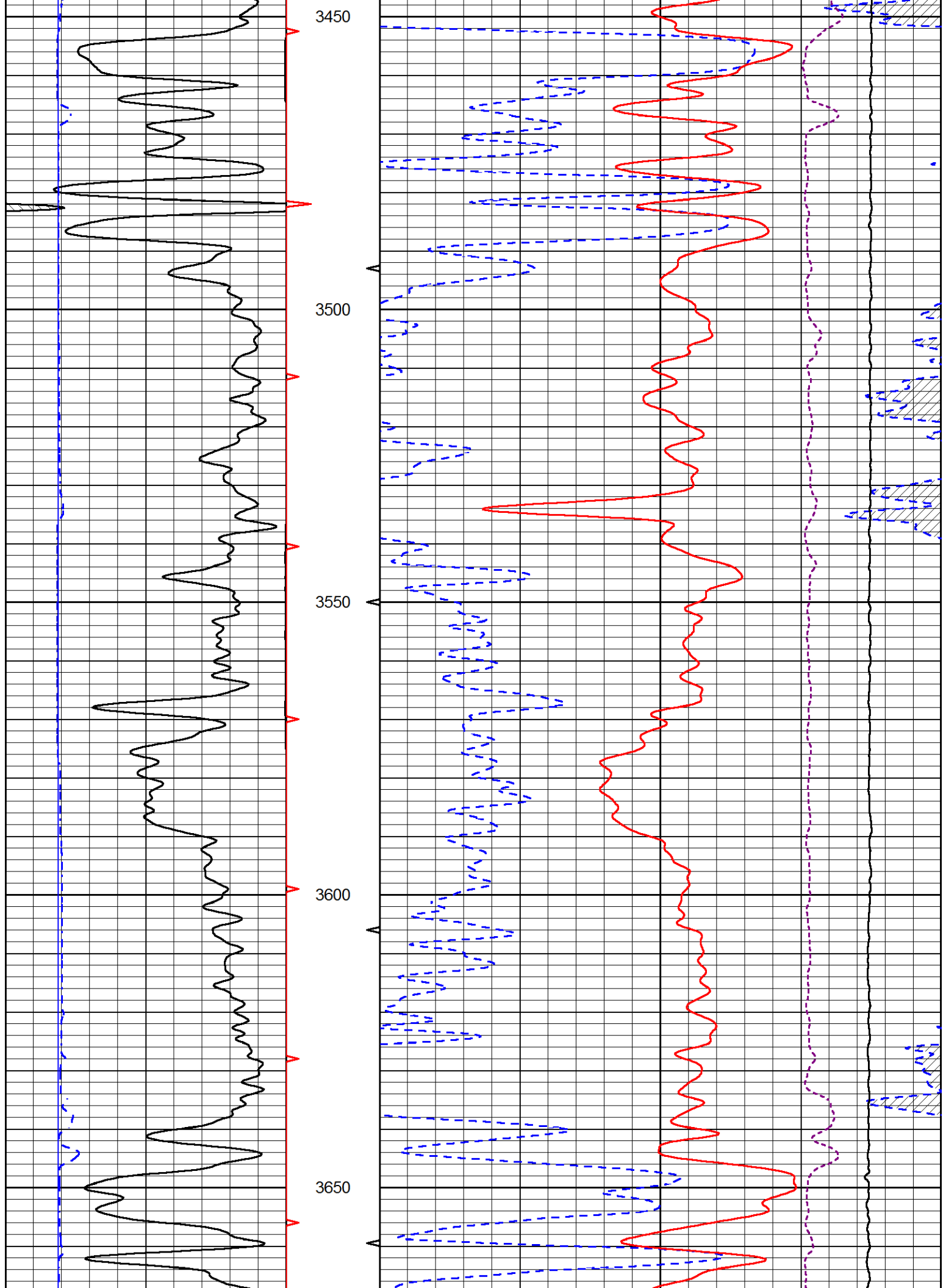
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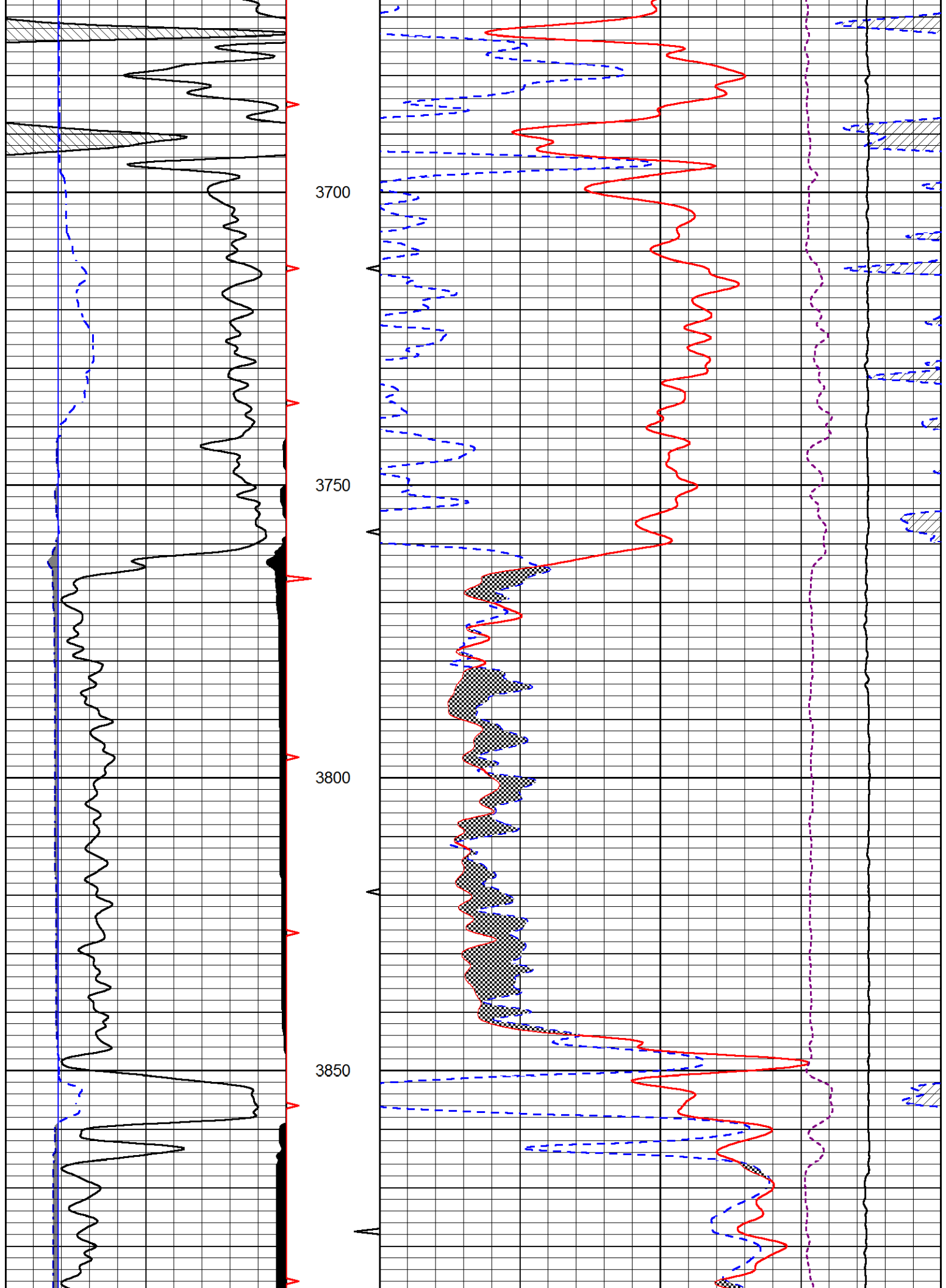
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Dataset Pathname	STACK/pass5.1
Presentation Format	cnlspec
Dataset Creation	Tue May 23 02:16:46 2017
Charted by	Depth in Feet scaled 1:240

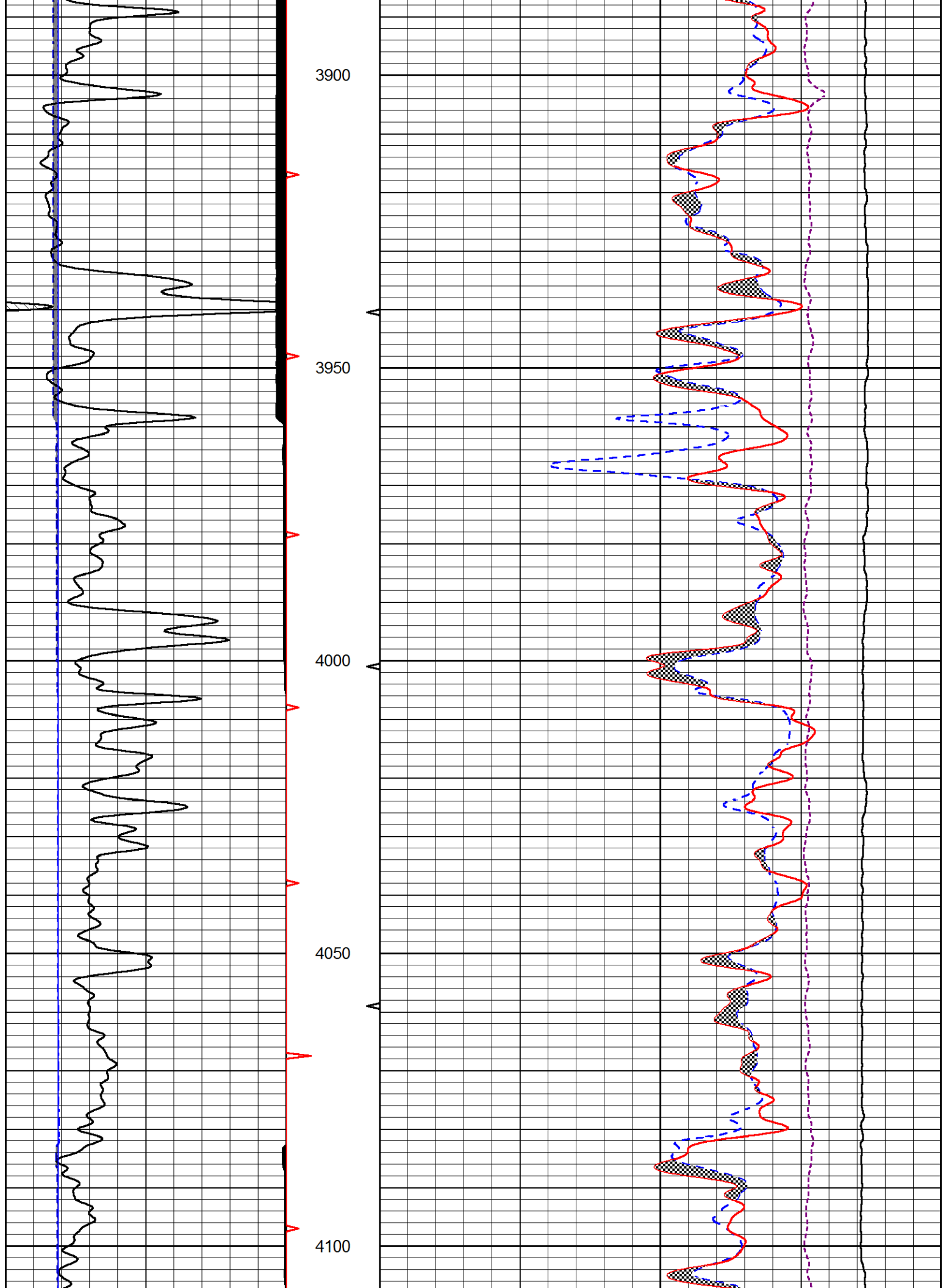
0	Gamma Ray (GAPI)	150
6	DCAL (in)	16

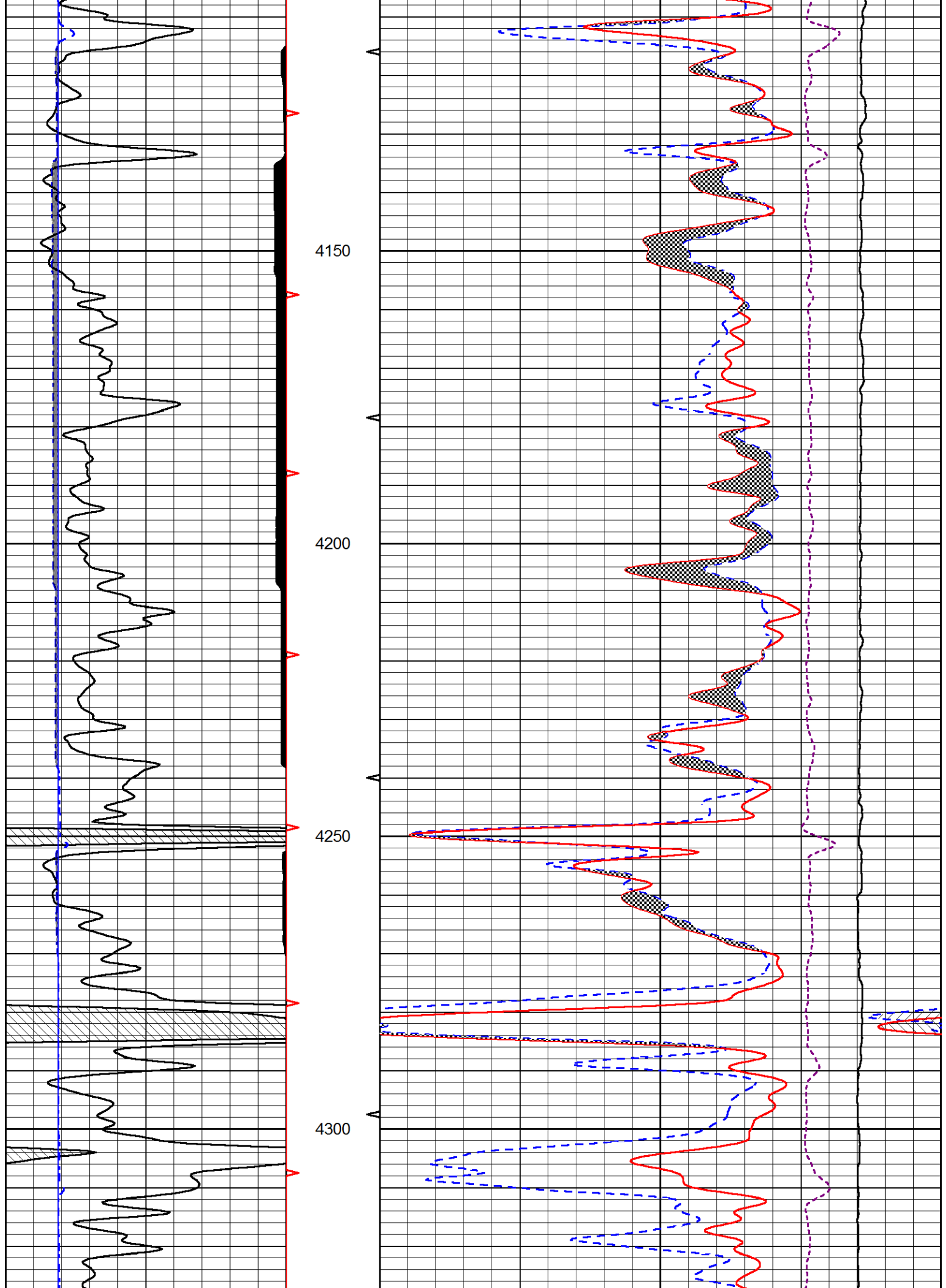
30	CNLS (pu)	-10
30	Compensated Density 2.71 g/cc (pu)	-10
10000	Line Tension (lb)	0
	-0.75	Correction (g/cc)
		0.75

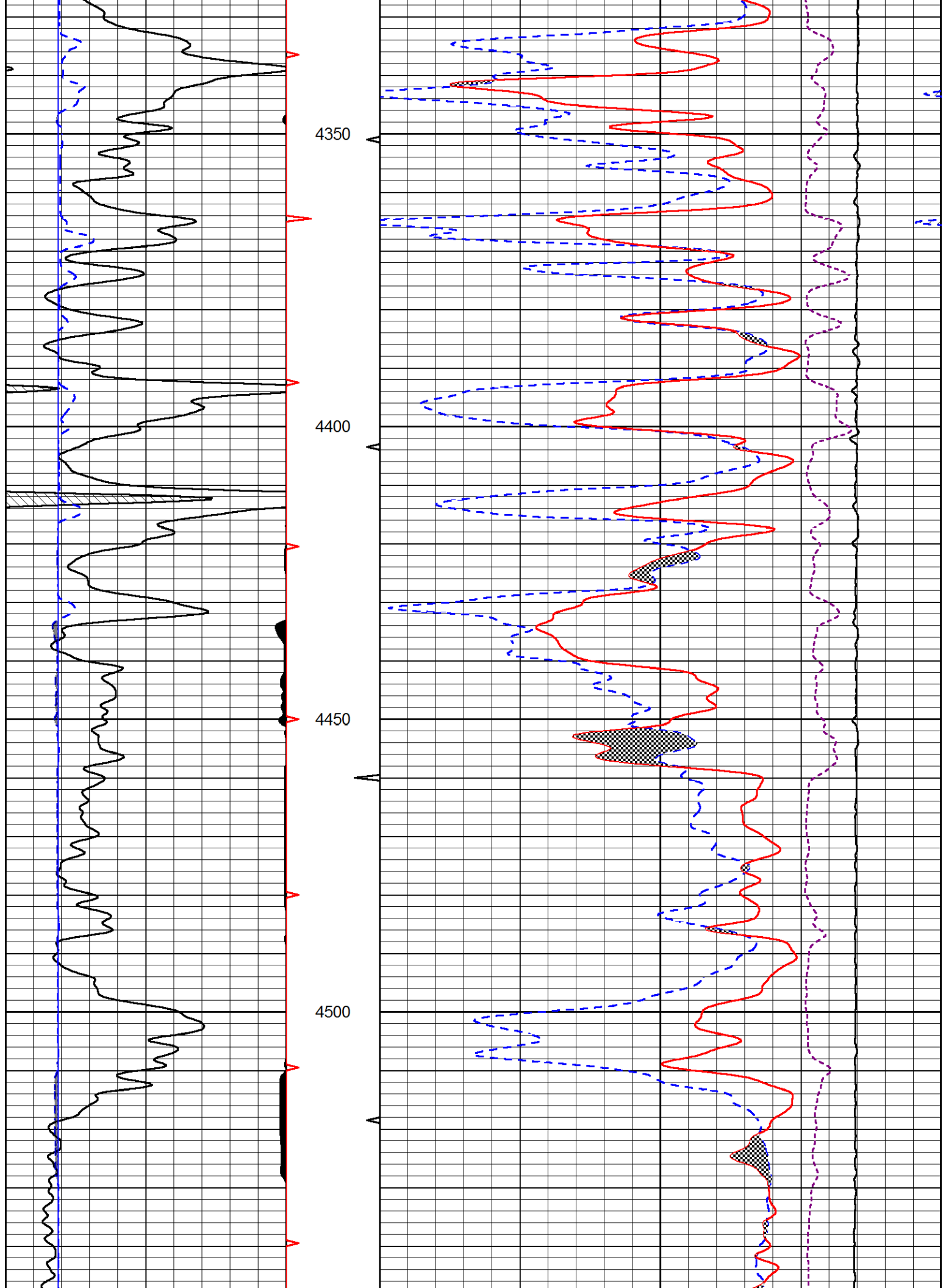


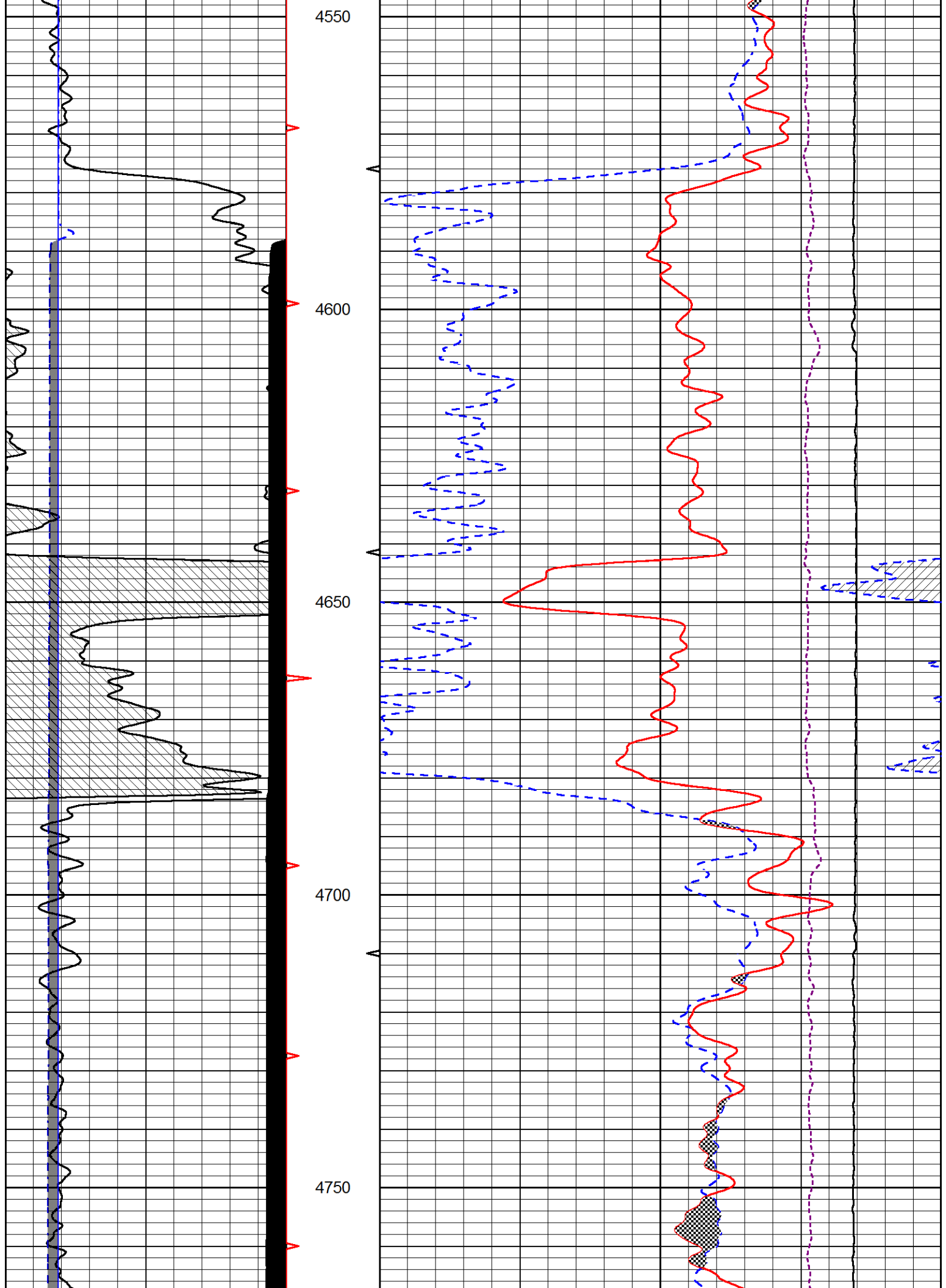


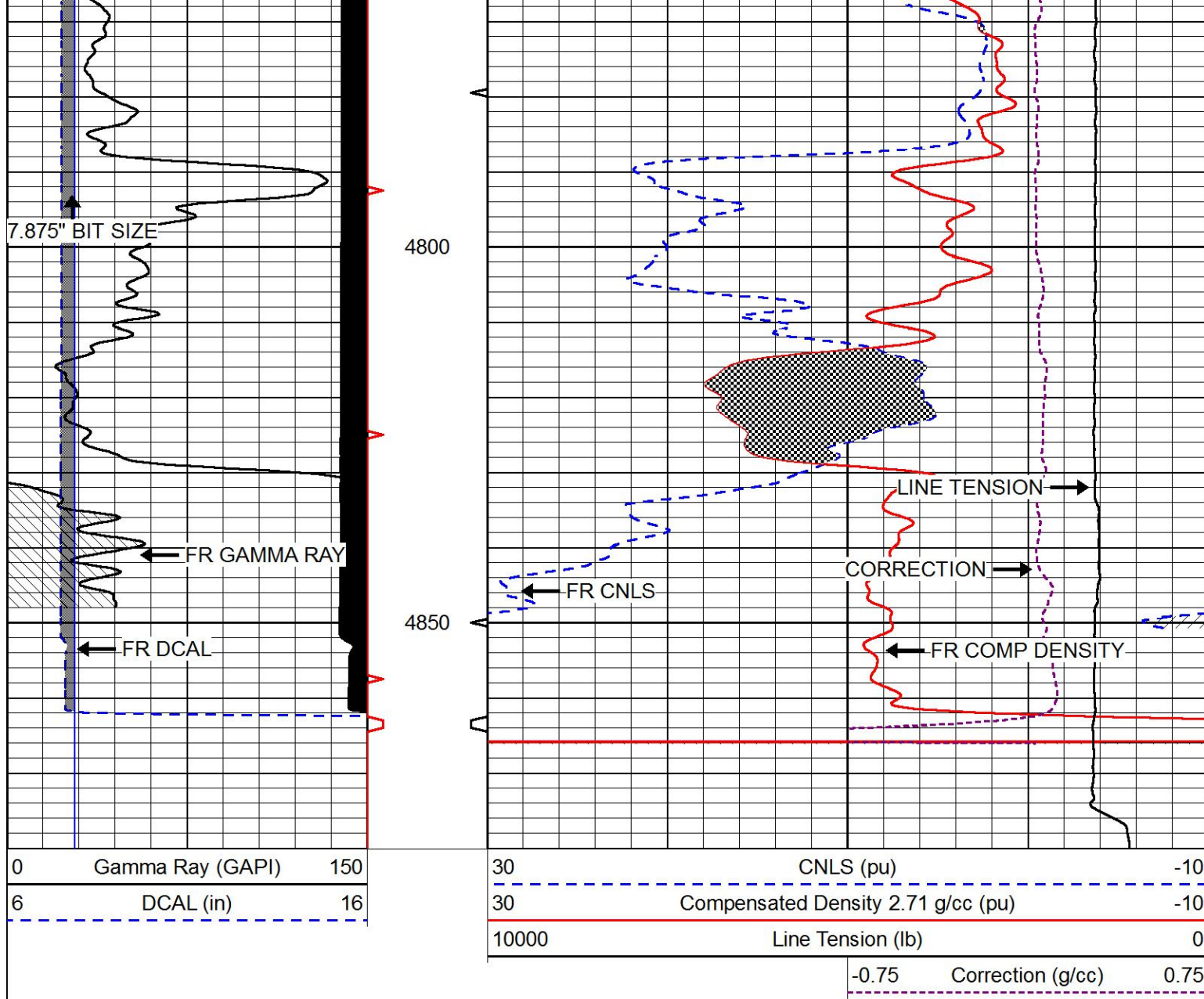






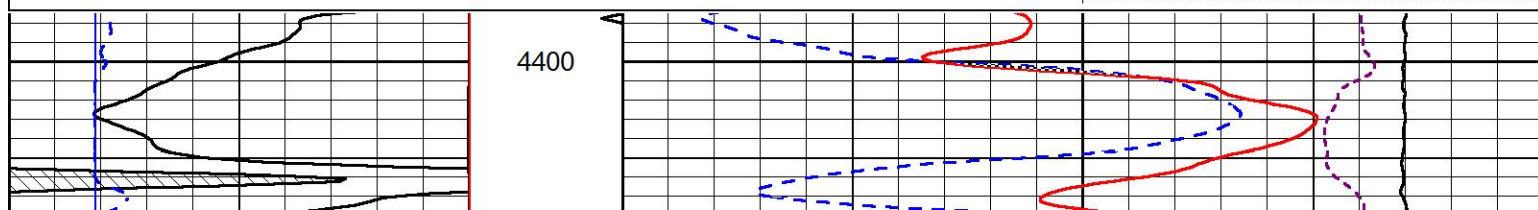
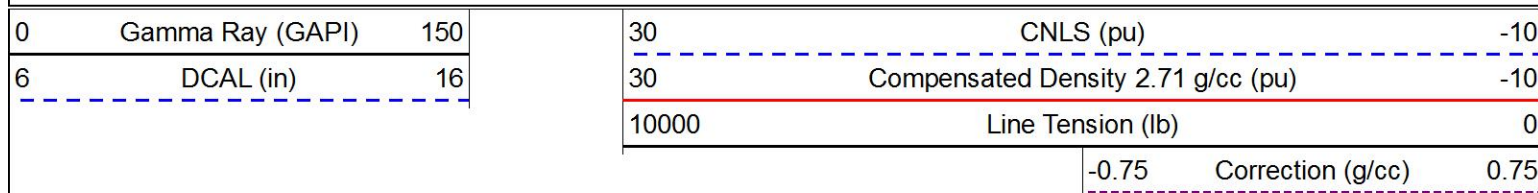


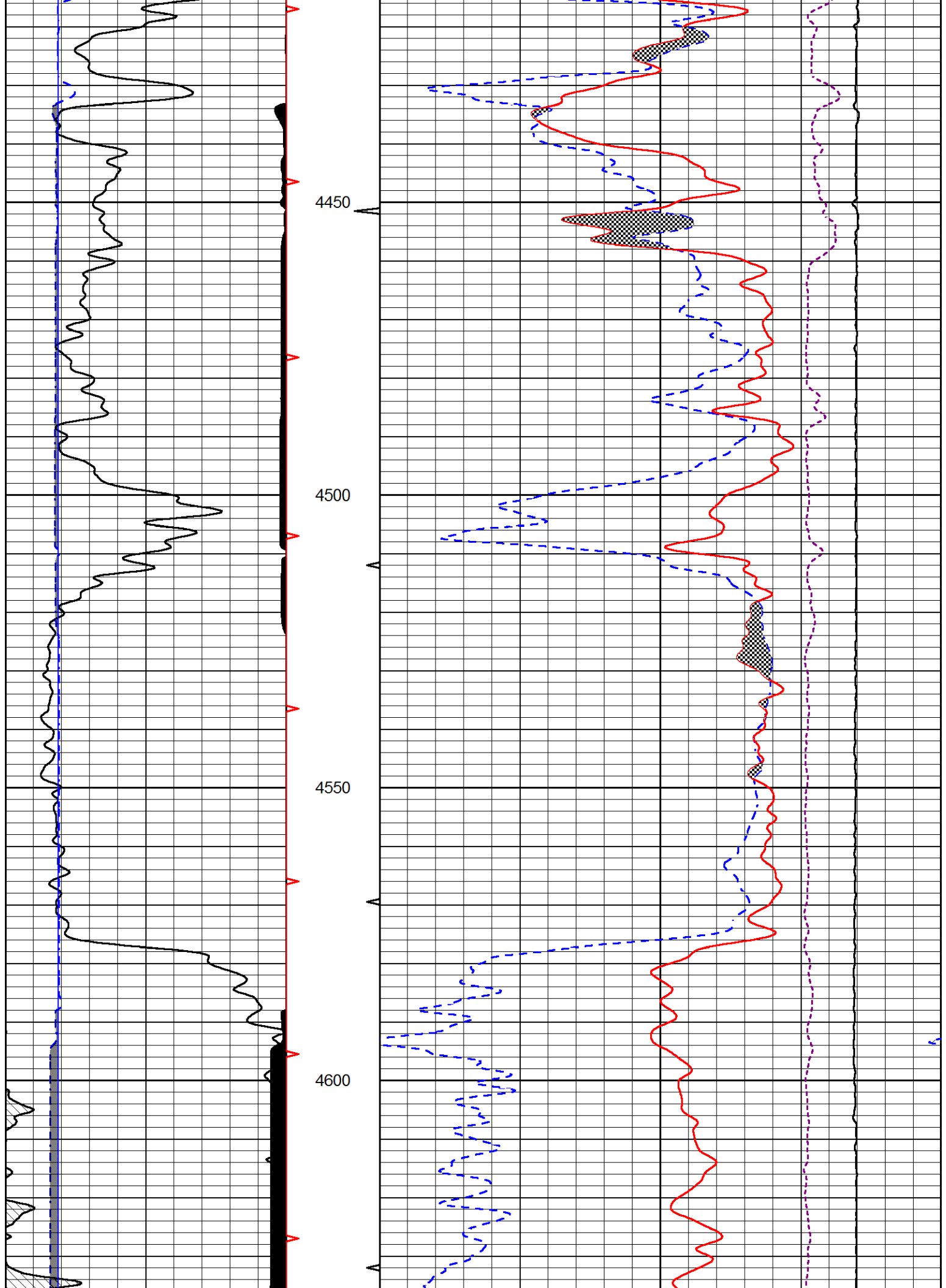


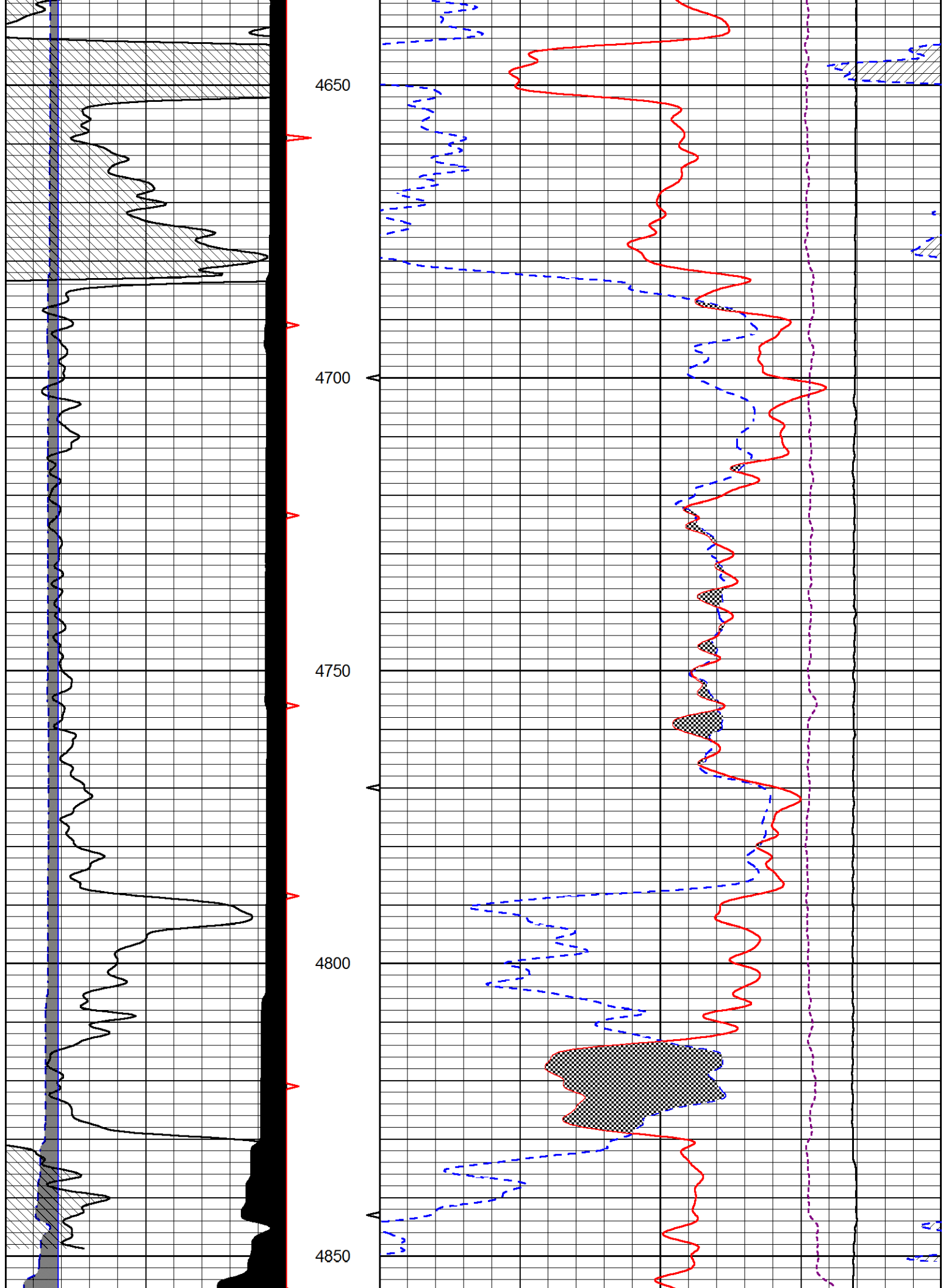


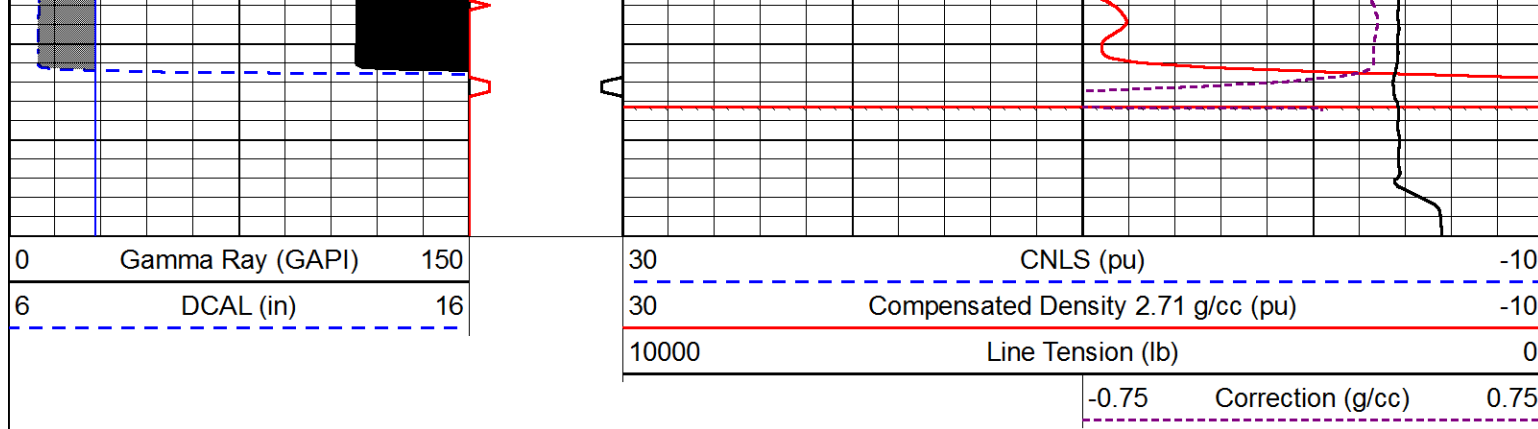
REPEAT SECTION

Database File: charles griffin_sherry 3-9.db
 Dataset Pathname: STACK/pass4.4
 Presentation Format: cndlspec
 Dataset Creation: Tue May 23 01:53:40 2017
 Charted by: Depth in Feet scaled 1:240









Calibration Report

Database File charles griffin__sherry 3-9.db
 Dataset Pathname STACK/pass5.2
 Dataset Creation Tue May 23 01:51:13 2017

Dual Induction Calibration Report

Serial-Model: PSI 91-M&W
 Calibration Performed: Sat May 06 17:53:33 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-30.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Sat May 06 17:53:49 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5174.18	6425.27	cps
Aluminum	2.665	g/cc	963.17	4037.42	cps
Spine Angle = 74.55			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: Sat May 6 10:30:30 2017

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:	Sat May 06 17:54:04 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



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Well	SHERRY #3-9
Field	MEDICINE LODGE - BOGGS
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State	KANSAS