



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **CHARLES N. GRIFFIN**
Well **SHARRON NO.4**
Field **TONI-MIKE**
County **BARBER** State **KANSAS**

Location: API #: 15-007-24311-00-00

Other Services

SEC 34 TWP 32S RGE 12W
660' FSL & 890' FWL

DIL

Permanent Datum GROUND LEVEL Elevation 1523'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1528'
D.F. N/A
G.L. 1523'

Company **CHARLES N. GRIFFIN**
Well **SHARRON NO.4**
Field **TONI-MIKE**
County **BARBER**
State **KANSAS**

Date 3/3/17

Run Number ONE

Type Log CNL/CDL

Depth Driller 4880'

Depth Logger 4882'

Bottom Logged Interval 4861'

Top Logged Interval 3300'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 4,000

Density 9.2

Level FULL

Max. Rec. Temp. F 125 DEG/F

Operating Rig Time 2 HOURS

Equipment -- Location 108 HAYS

Recorded By J. HENRICKSON

Witnessed By BRUCE REED

CHARLES GRIFFIN

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

ONE 12.25" 0 246' 8.625" 23# 0 246'

TWO 7.875" 246' TD

<<< 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.

MEDICINE LODGE, KS
SOUTH TO SPRING HILL ROAD, WEST THROUGH TWO CATTLE GUARDS
SOUTH AND EAST TO PUMP UNIT, 3/4 SOUTH TO WELL

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: J. HENRICKSON
Operator: K. PFANNENSTIEL
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: BRUCE REED
Secondary Witness: CHARLES GRIFFIN
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 124	in 4.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV -260	degF 38	Off	ft 4882

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	29.90			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	29.15						
LSD DCAL SSD	20.85			CDL-M&W (168-986)	8.50	4.00	250.00
	20.83						
	20.35						
RLL3F	15.80			DIL-PSI HIGH TEMP (PSI 216 HT)	18.50	3.50	220.00
RLL3	15.80						
CILD	8.00						

CILM 4.70

SP 0.20

Dataset: charles_griffin_sharron_4.db: field/well/stack/pass3.1
Total length: 35.50 ft
Total weight: 620.00 lb
O.D.: 4.00 in

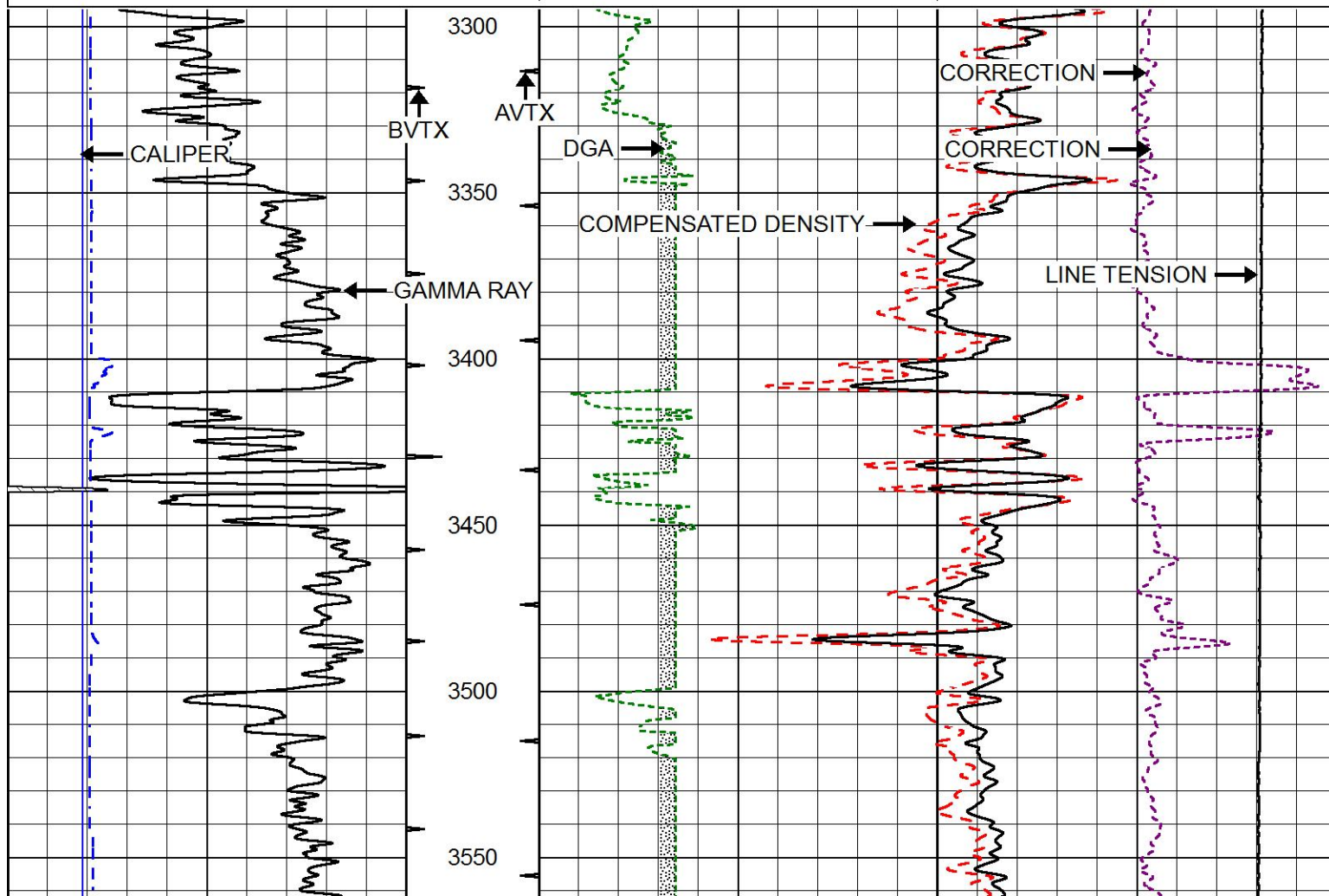


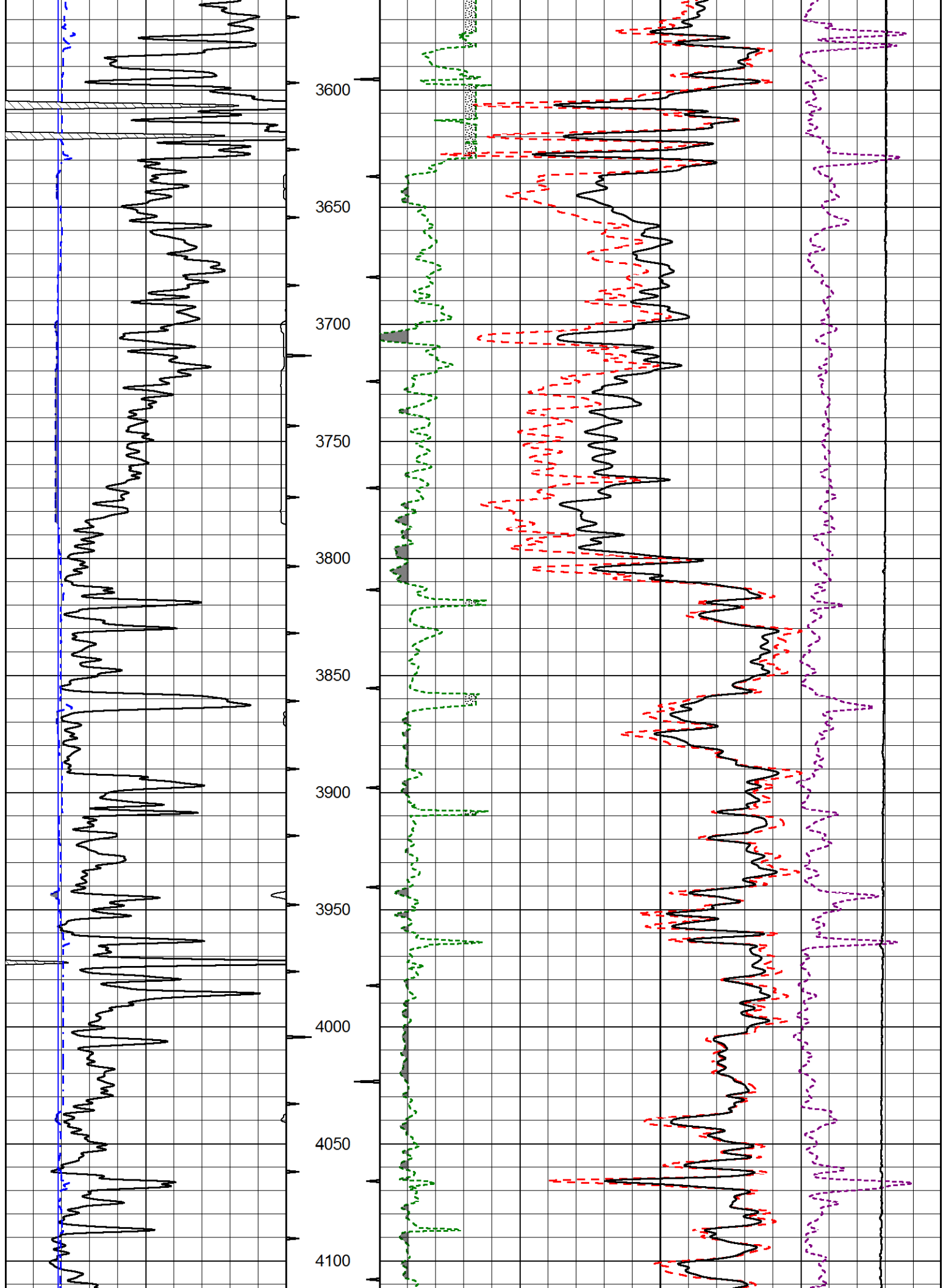
MAIN PASS

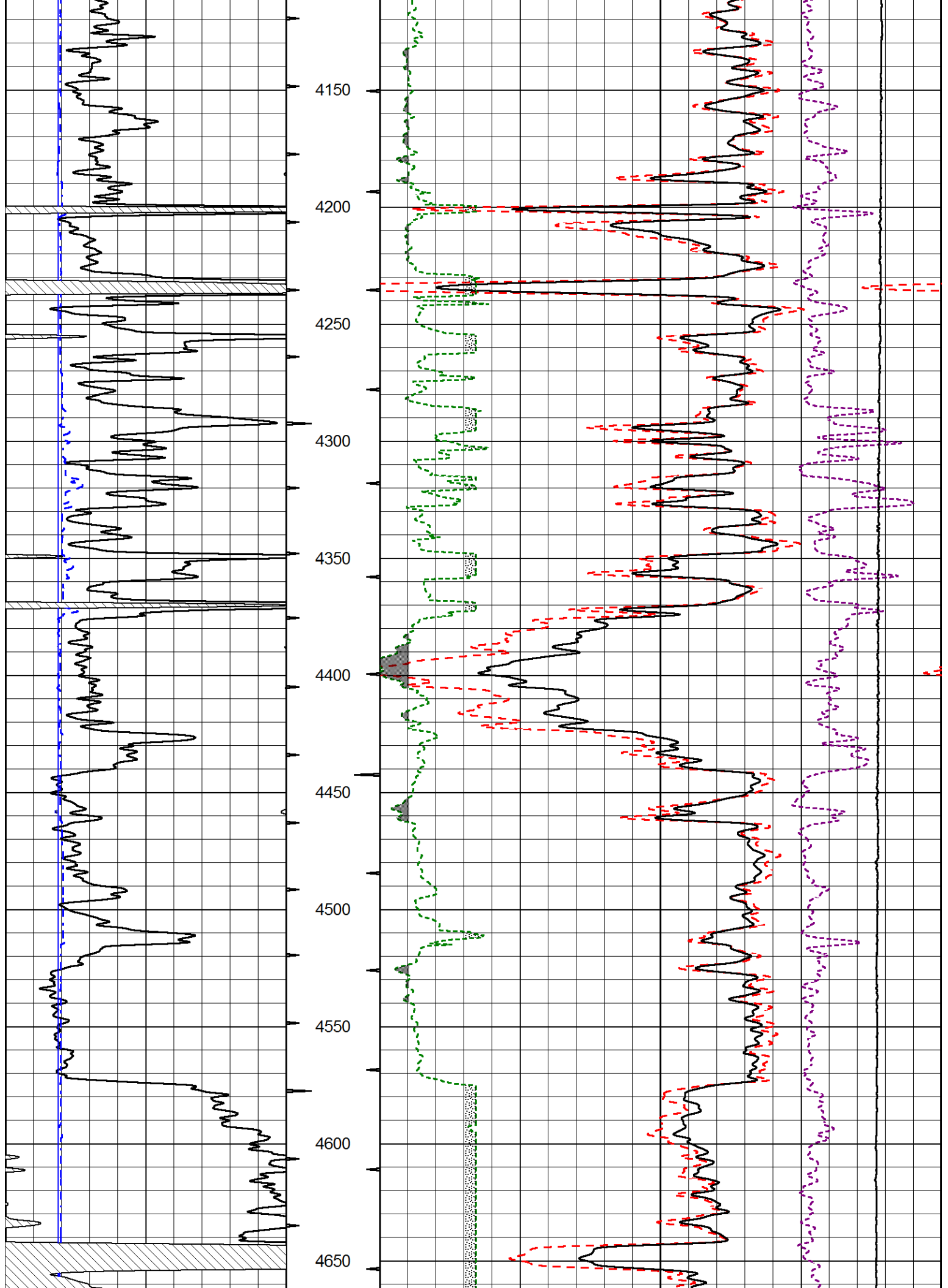
Database File charles_griffin_sharron_4.db
Dataset Pathname stack/pass3.1
Presentation Format cdl
Dataset Creation Fri Mar 03 20:14:18 2017
Charted by Depth in Feet scaled 1:600

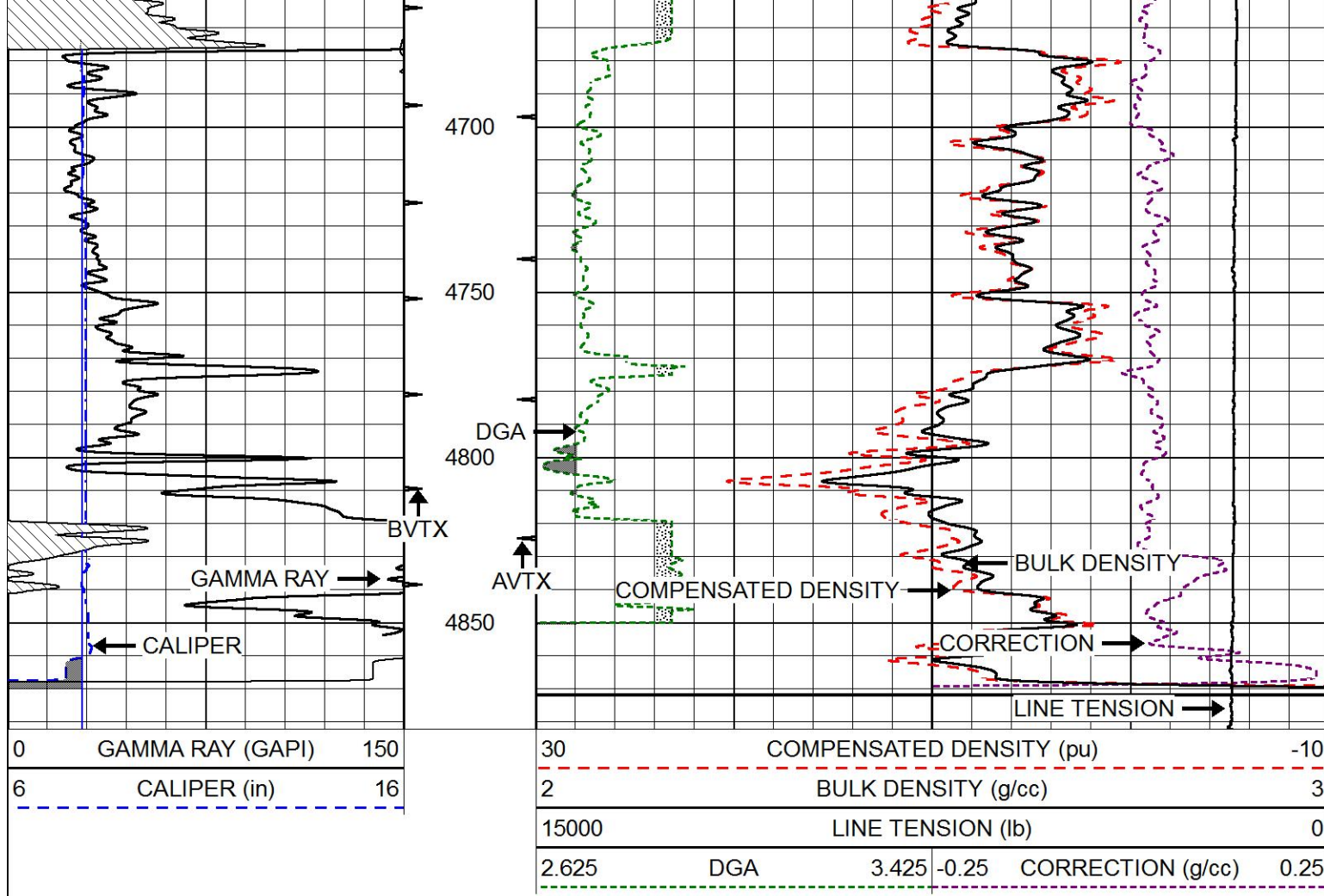
0 GAMMA RAY (GAPI) 150
6 CALIPER (in) 16

30 COMPENSATED DENSITY (pu) -10
2 BULK DENSITY (g/cc) 3
15000 LINE TENSION (lb) 0
2.625 DGA 3.425 -0.25 CORRECTION (g/cc) 0.25





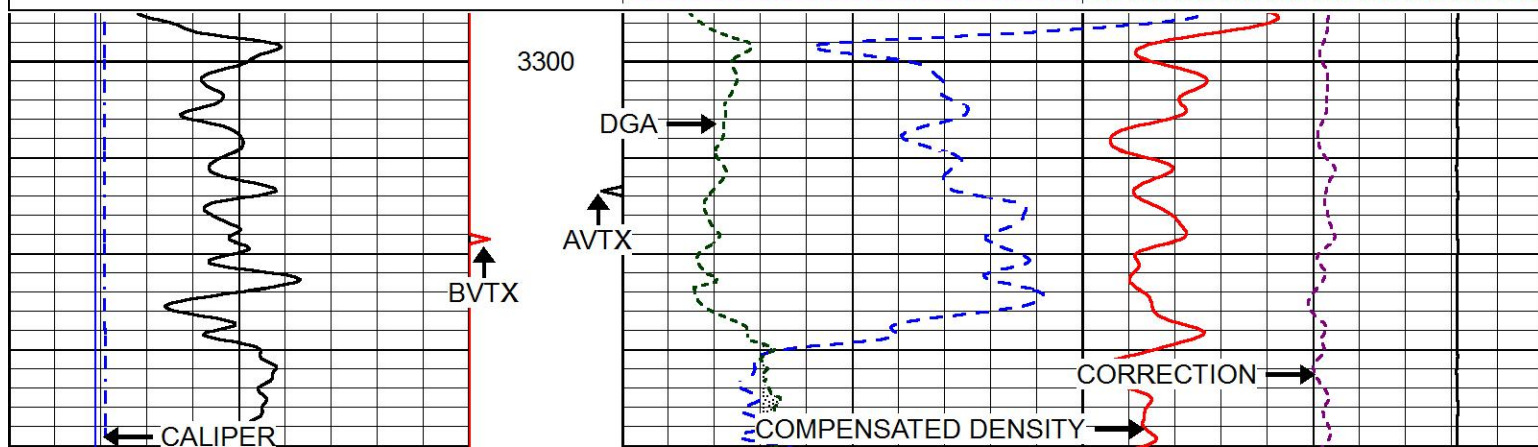


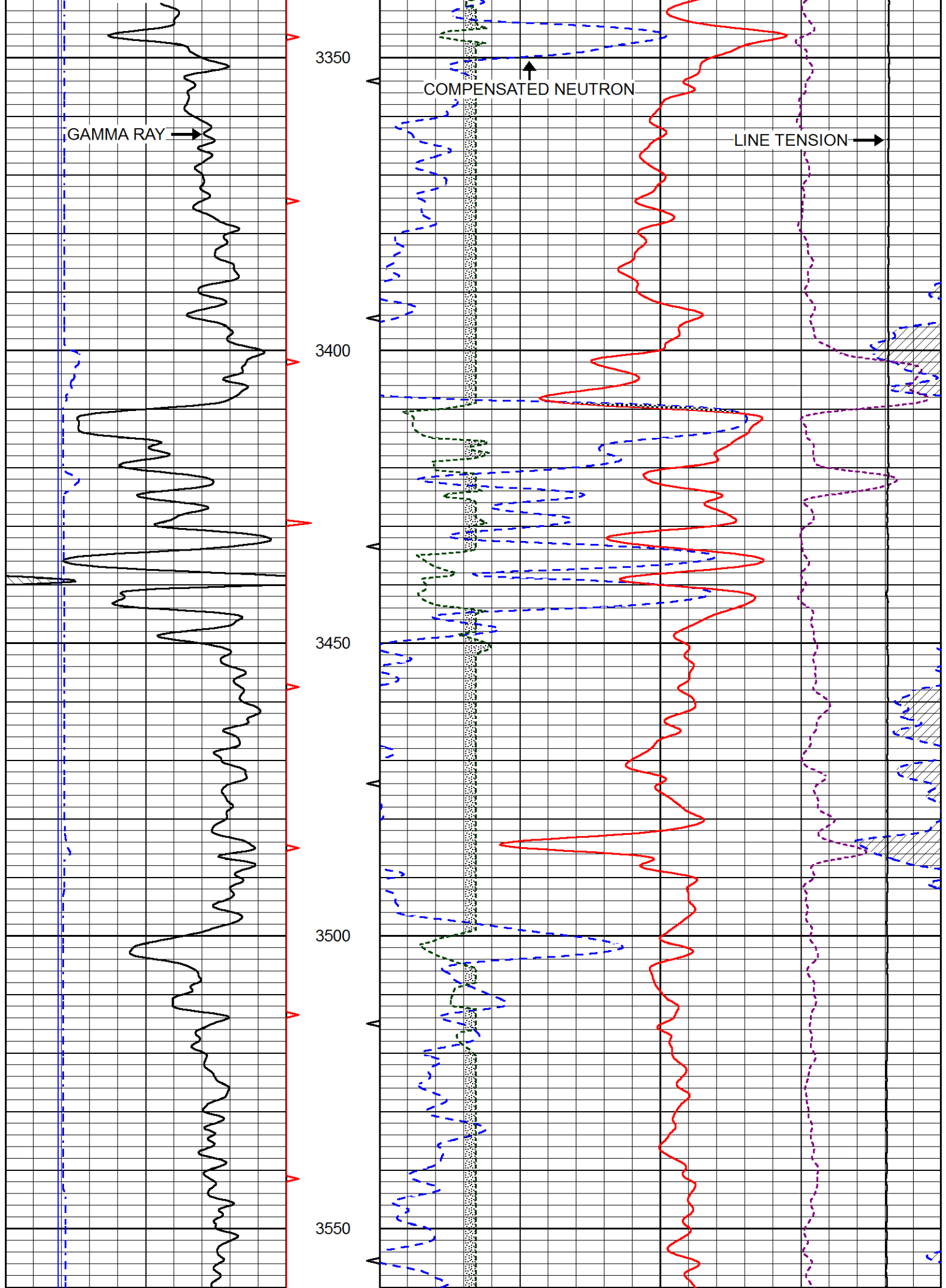


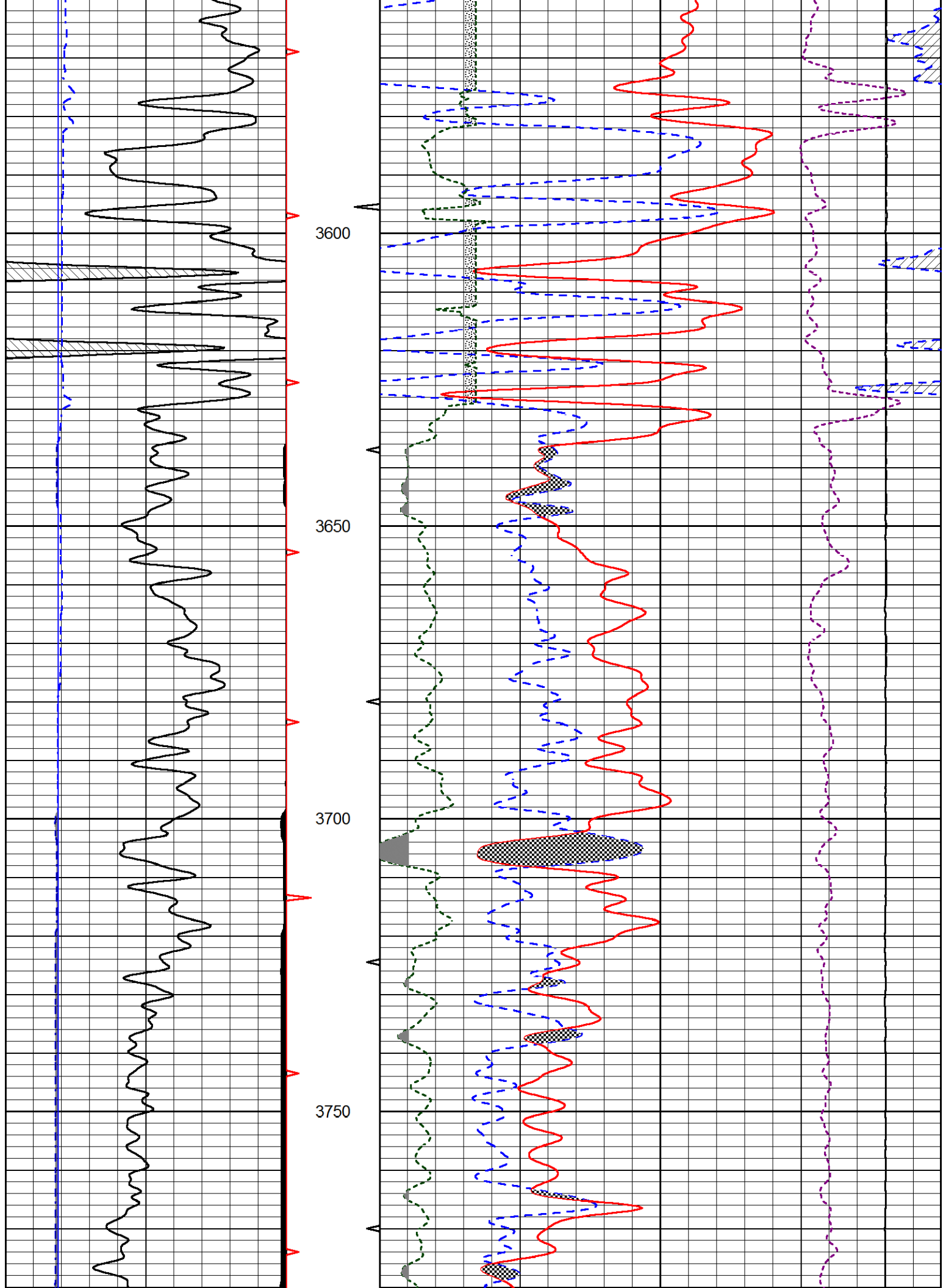
MAIN PASS

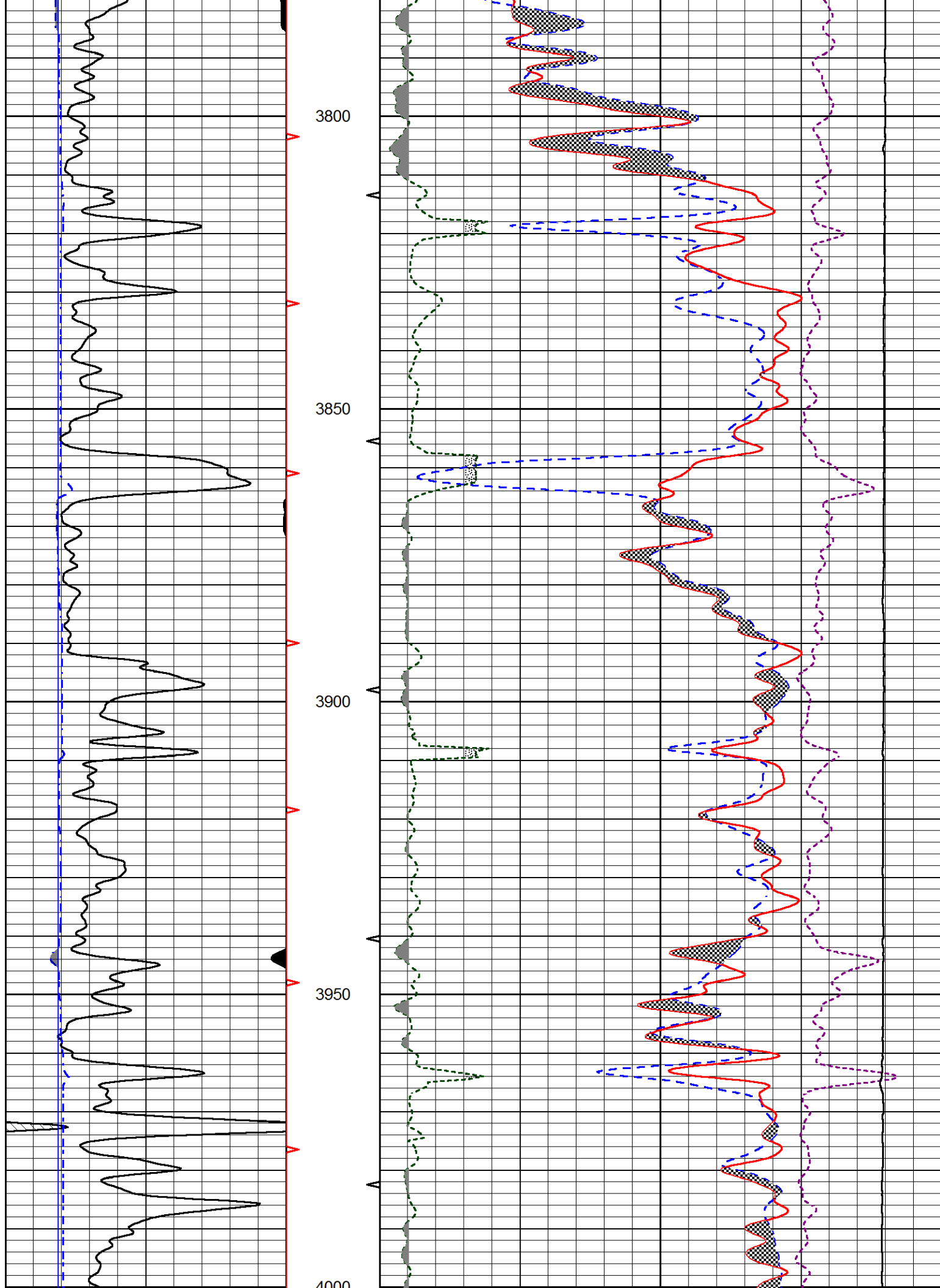
Database File: charles_griffin_sharron_4.db
 Dataset Pathname: stack/pass3.1
 Presentation Format: cndlspec
 Dataset Creation: Fri Mar 03 20:14:18 2017
 Charted by: Depth in Feet scaled 1:240

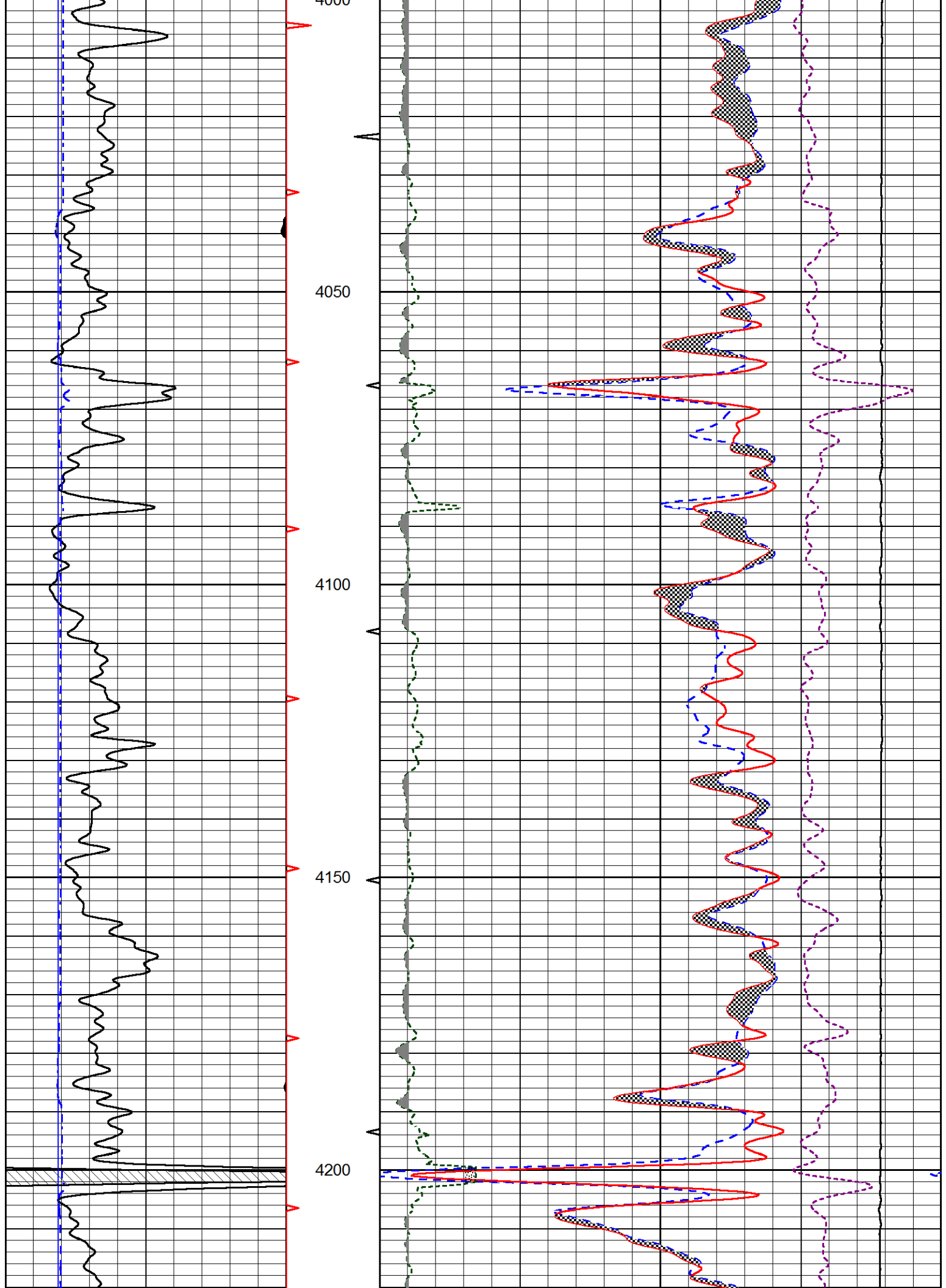
0	GAMMA RAY (GAPI)	150	30	COMPENSATED NEUTRON (pu)		-10
6	dcal (in)	16	30	COMPENSATED DENSITY (2.71 ma) (pu)		-10
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)		0
			2.625	DGA	3.425	-0.25
					CORRECTION (g/cc)	0.25

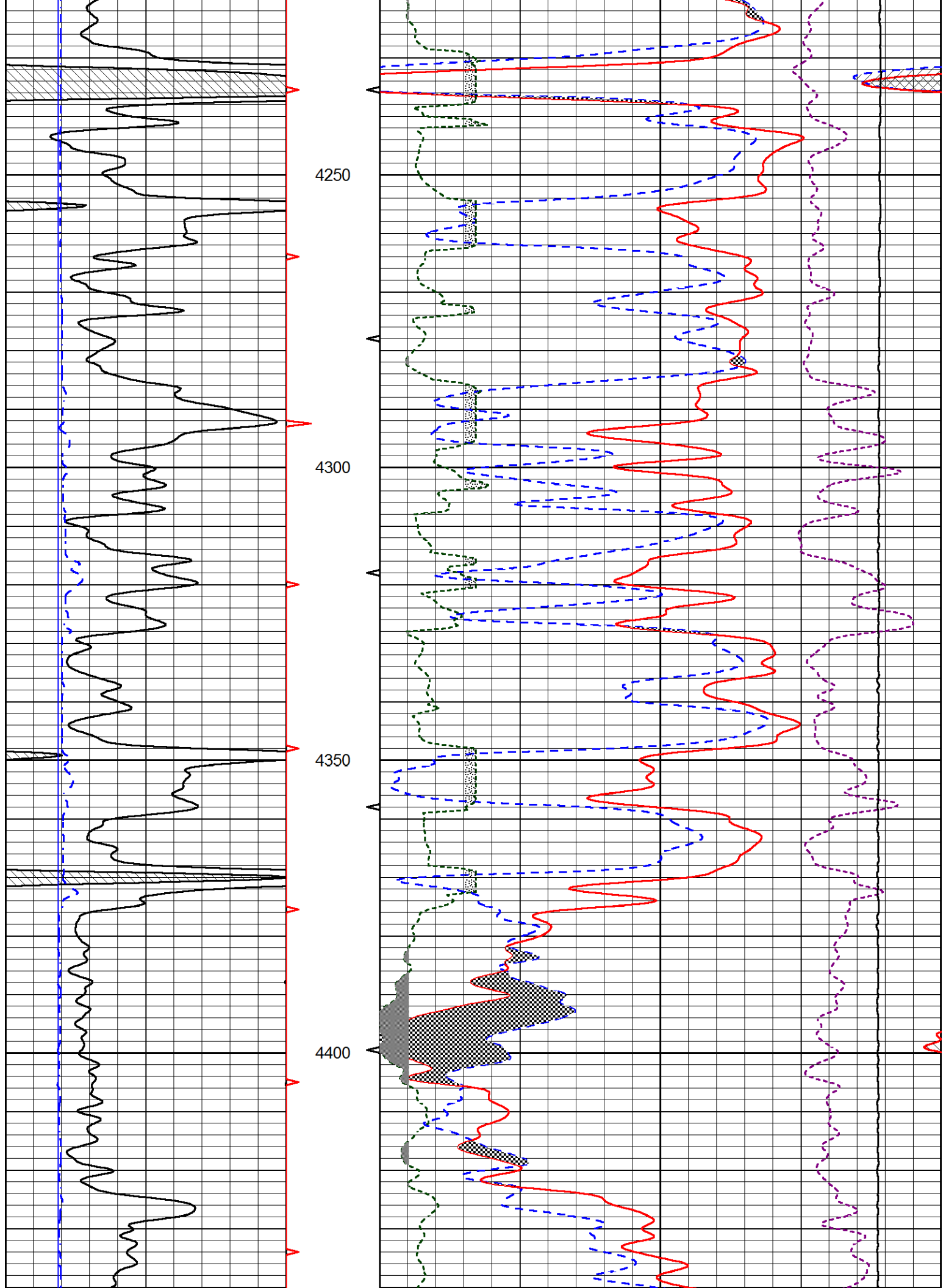


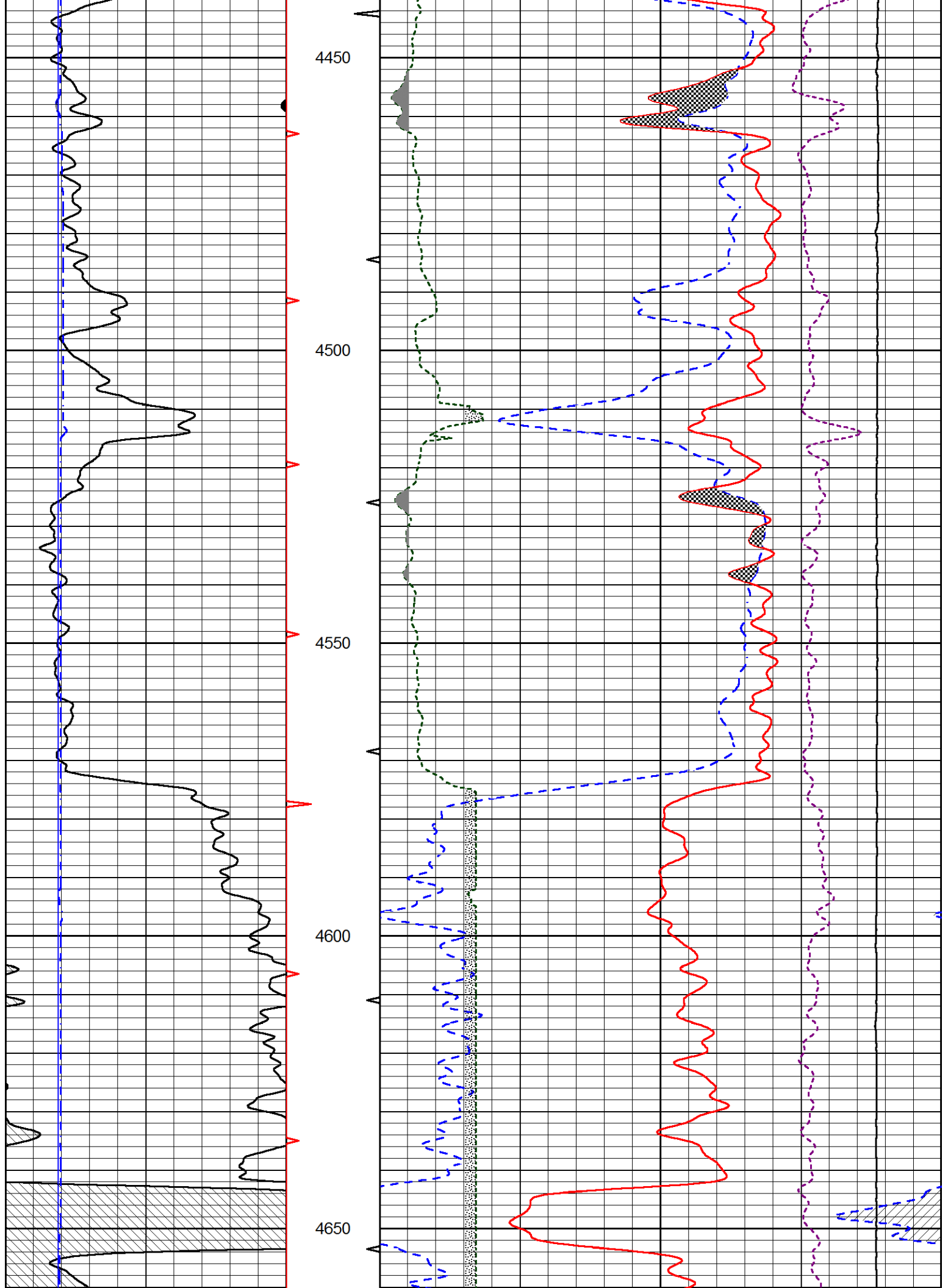


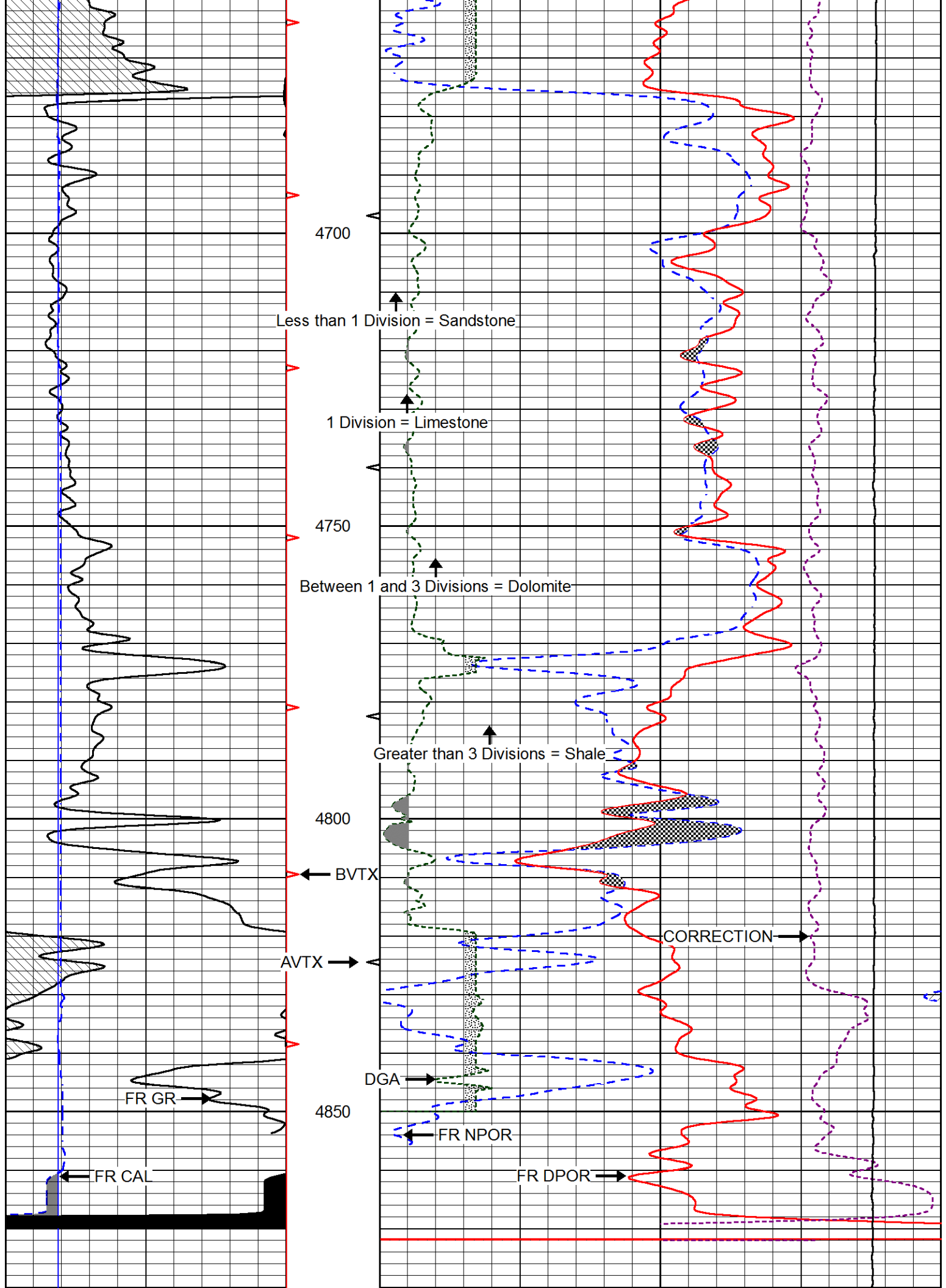












0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

LINE TENSION →				
30	COMPENSATED NEUTRON (pu)			-10
30	COMPENSATED DENSITY (2.71 ma) (pu)			-10
15000	LINE TENSION (lb)			0
2.625	DGA	3.425	-0.25	CORRECTION (g/cc) 0.25

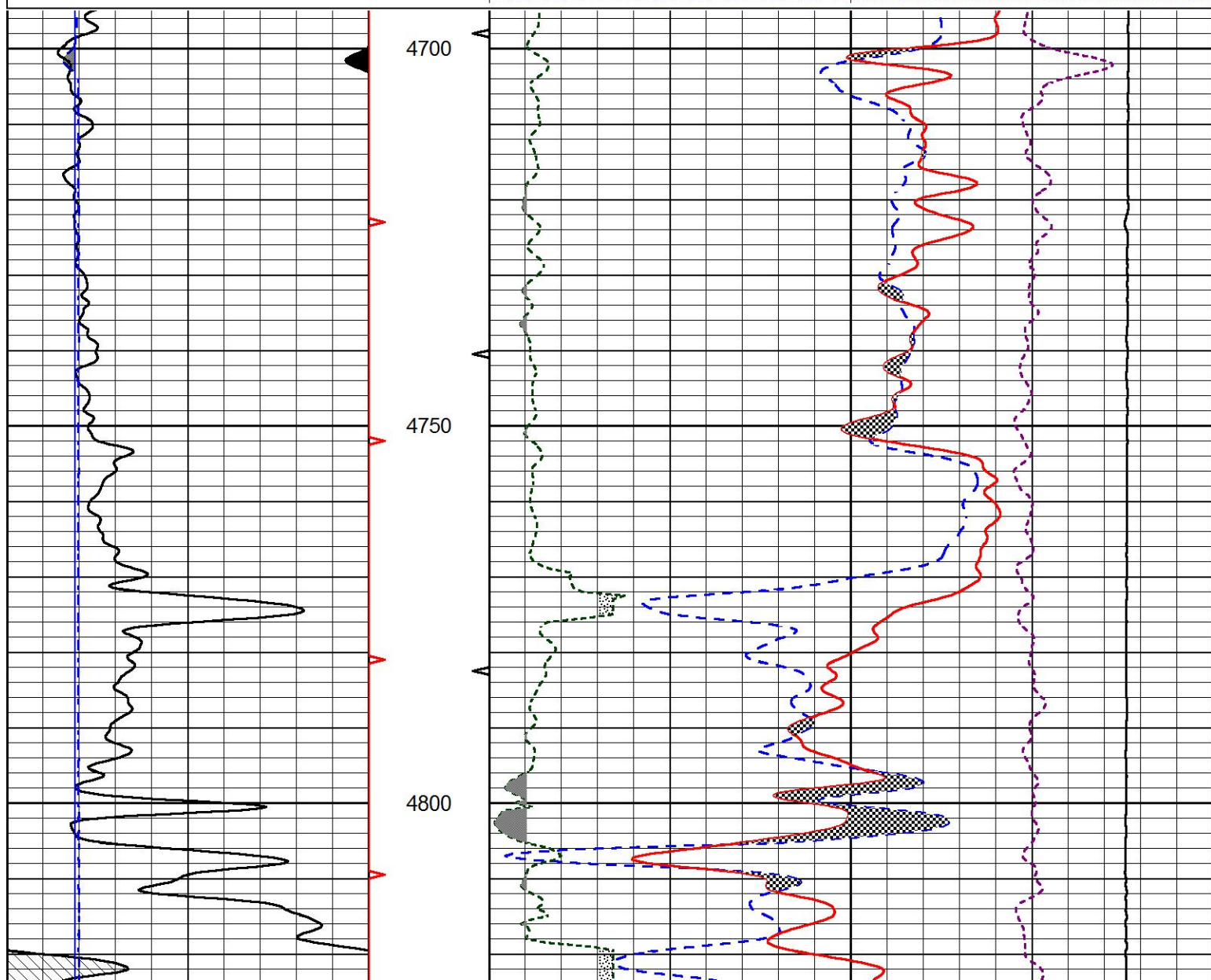


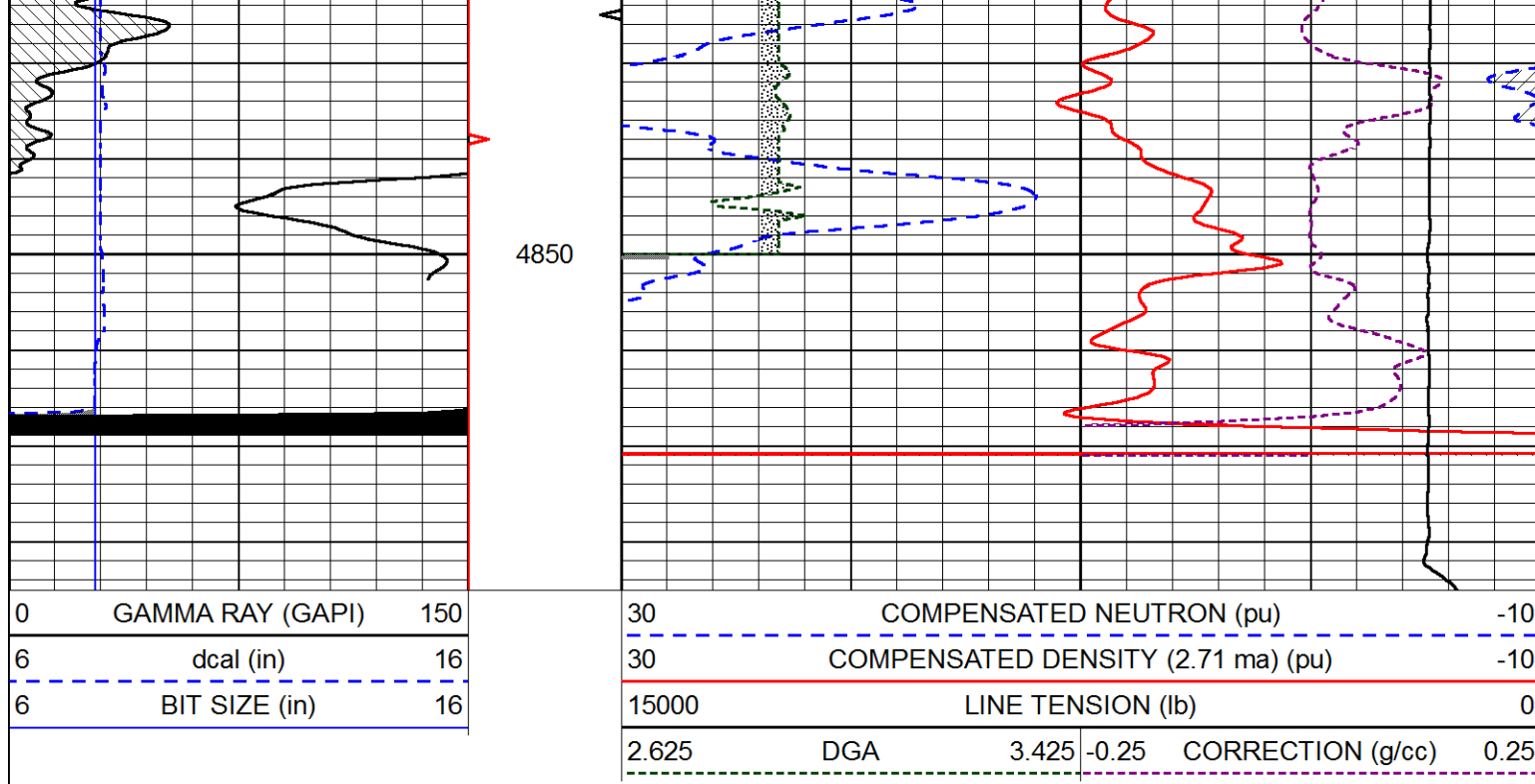
REPEAT SECTION

Database File charles_griffin_sharron_4.db
Dataset Pathname stack/pass2.1
Presentation Format cndlspec
Dataset Creation Fri Mar 03 19:39:48 2017
Charted by Depth in Feet scaled 1:240

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

30	COMPENSATED NEUTRON (pu)			-10
30	COMPENSATED DENSITY (2.71 ma) (pu)			-10
15000	LINE TENSION (lb)			0
2.625	DGA	3.425	-0.25	CORRECTION (g/cc) 0.25





Calibration Report

Database File: charles_griffin_sharron_4.db
 Dataset Pathname: stack/pass3.1
 Dataset Creation: Fri Mar 03 20:14:18 2017

Dual Induction Calibration Report

Serial-Model: PSI 216 HT-PSI HIGH TEMP
 Calibration Performed: Thu Mar 31 15:54:48 2016

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	75.411	495.929	4.000	250.000	mmho/m	0.600	-40.115
Medium	75.269	470.661	10.000	100.000	mmho/m	0.628	-22.133

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
 Source / Verifier: /
 Master Calibration Performed: Fri Nov 18 10:05:18 2016

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.523		
	Size		Reading		
Small Ring	4.00	in	1.03		
Large Ring	14.00	in	1.23		

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: Fri Dec 23 14:43:38 2016

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



Company CHARLES N. GRIFFIN
 Well SHARRON NO.4
 Field TONI-MIKE
 County BARBER
 State KANSAS