



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company VAL ENERGY, INC.
Well WILSON #1-3
Field UNKNOWN
County THOMAS State KANSAS

Location: API #: 15-193-21003-00-00

Other Services

SEC 3 TWP 8S RGE 36W

DIL/MEL

Permanent Datum GROUND LEVEL Elevation 3330'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3335'
D.F. N/A
G.L. 3330'

Date 10/22/2017

Run Number ONE

Type Log CNL/CDL

Depth Driller 4900'

Depth Logger 4902'

Bottom Logged Interval 4873'

Top Logged Interval 3800'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 6500

Density 9.2

Level FULL

Max. Rec. Temp. F 125

Operating Rig Time 3 HOURS

Equipment -- Location 91 HAYS

Recorded By D. SCHMIDT

Witnessed By TIM PRIEST

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

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

BREWSTER,
2 EAST ON OLD HWY 24 TO 4 RD, 1 1/2 NORTH,
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

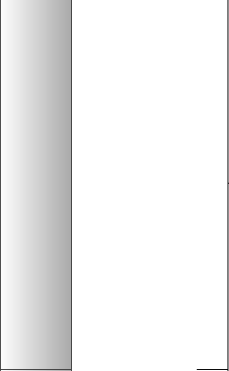
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: TIM PRIEST
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	-75	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	60	0	5.5	0	4902	125	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 (90-1031)	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					

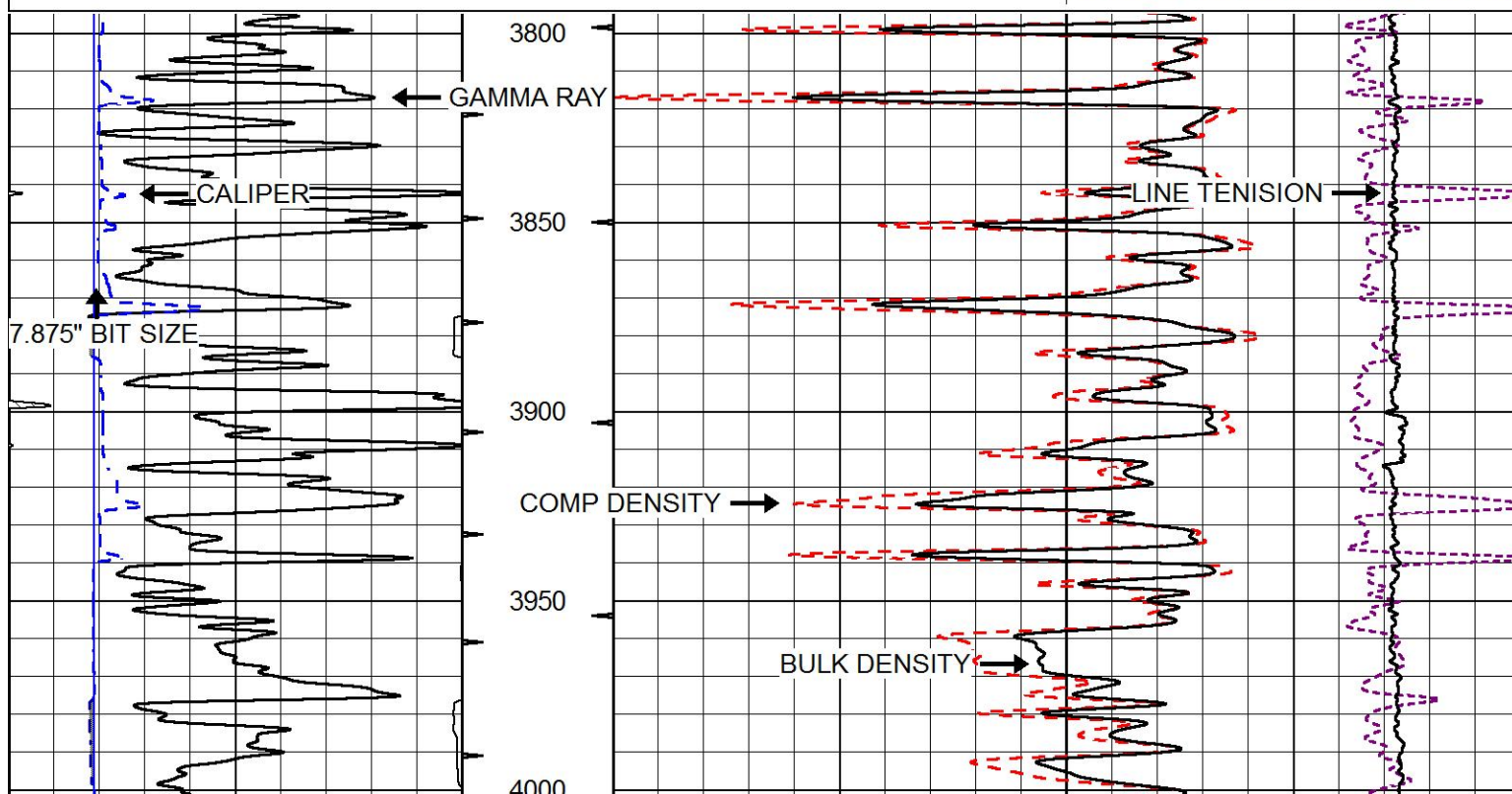
			DIL-M&W (PSI 91)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					
Dataset: val_wilson 1-3.db: field/well/STKML/pass4.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in						

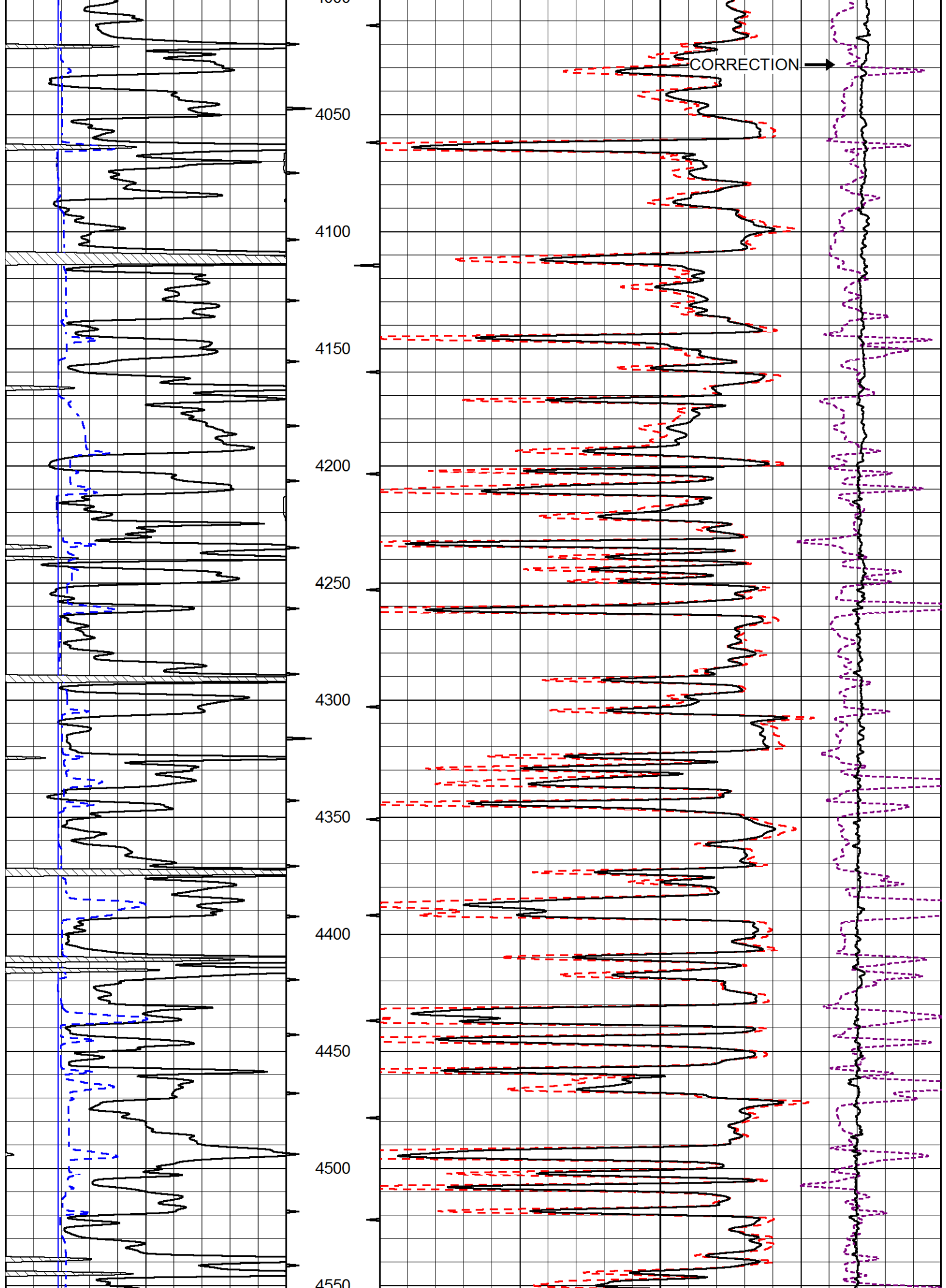


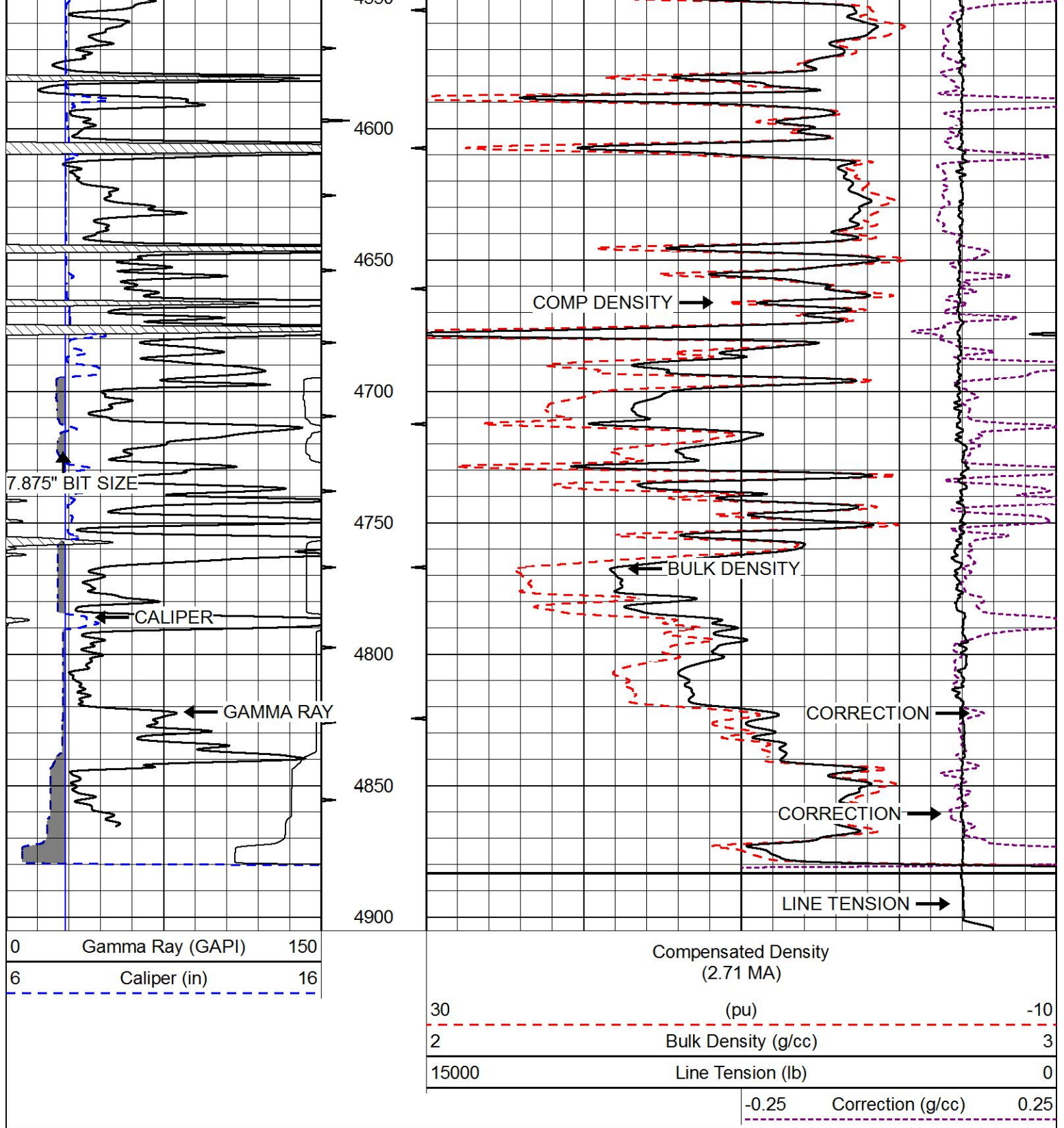
MAIN PASS

Database File	val_wilson 1-3.db
Dataset Pathname	STKML/pass4.1
Presentation Format	cdl
Dataset Creation	Sun Oct 22 01:54:45 2017
Charted by	Depth in Feet scaled 1:600

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









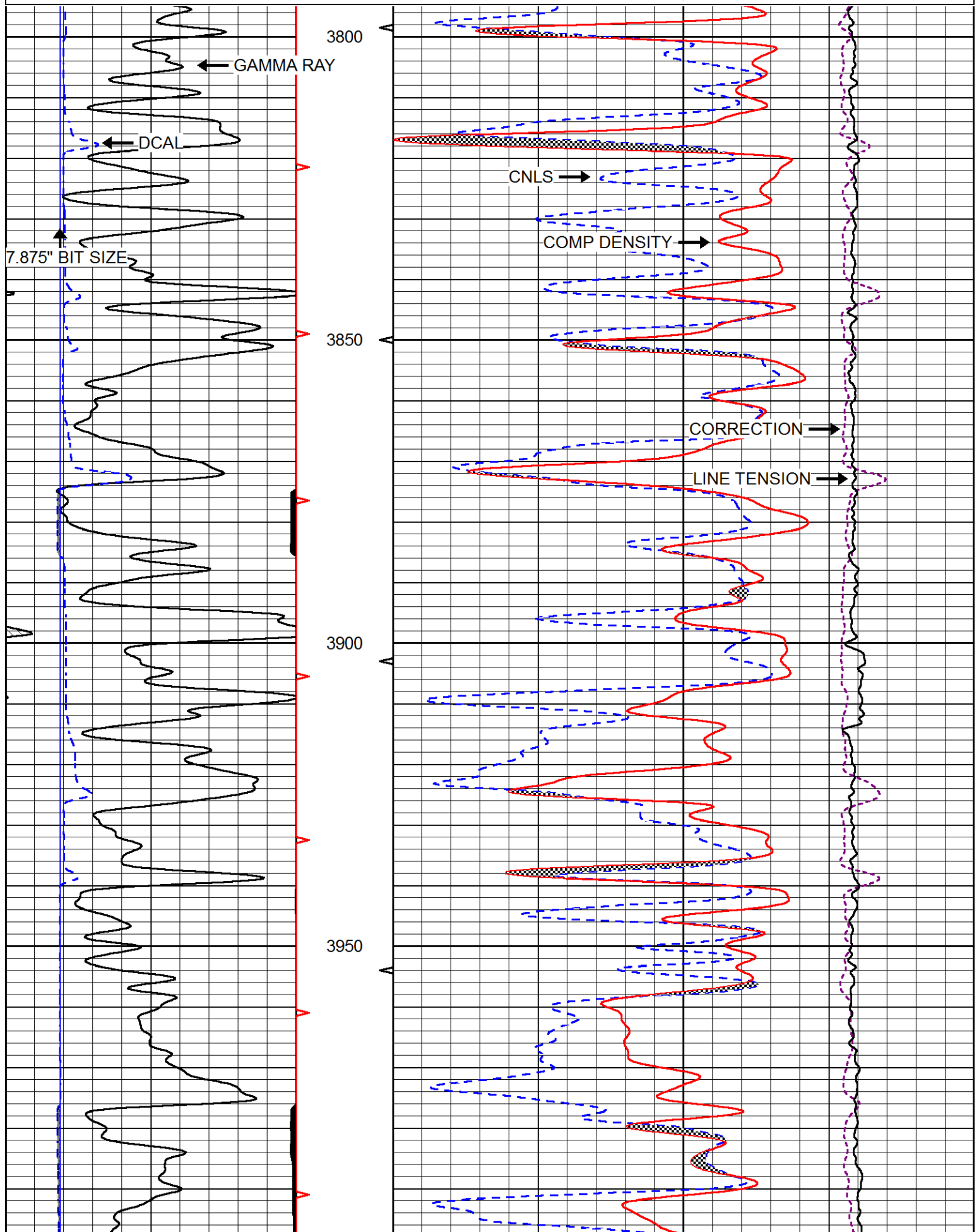
MAIN PASS

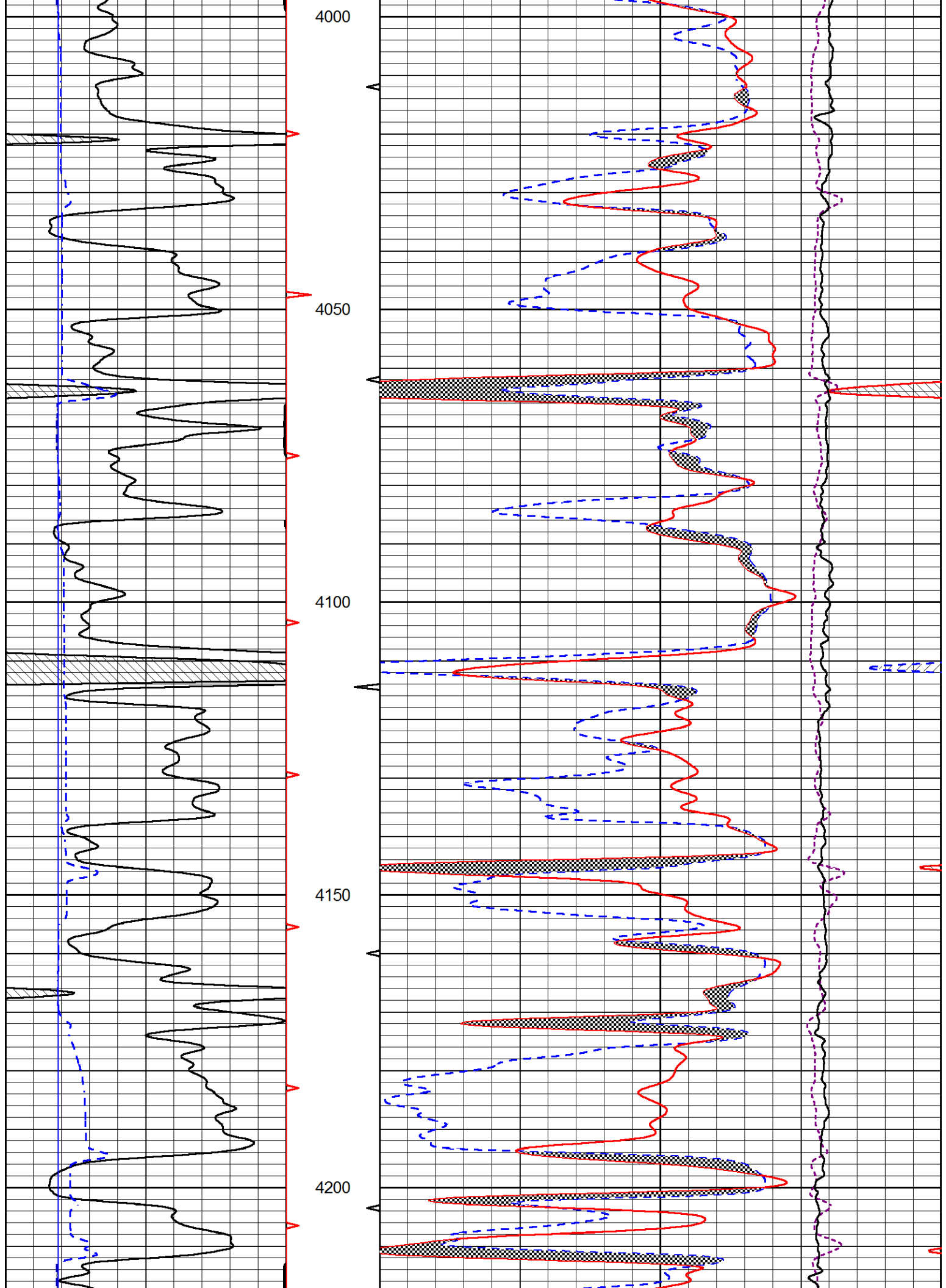
Database File	val_wilson 1-3.db
Dataset Pathname	STKML/pass4.1
Presentation Format	cnldspec
Dataset Creation	Sun Oct 22 01:54:45 2017
Charted by	Depth in Feet scaled 1:240

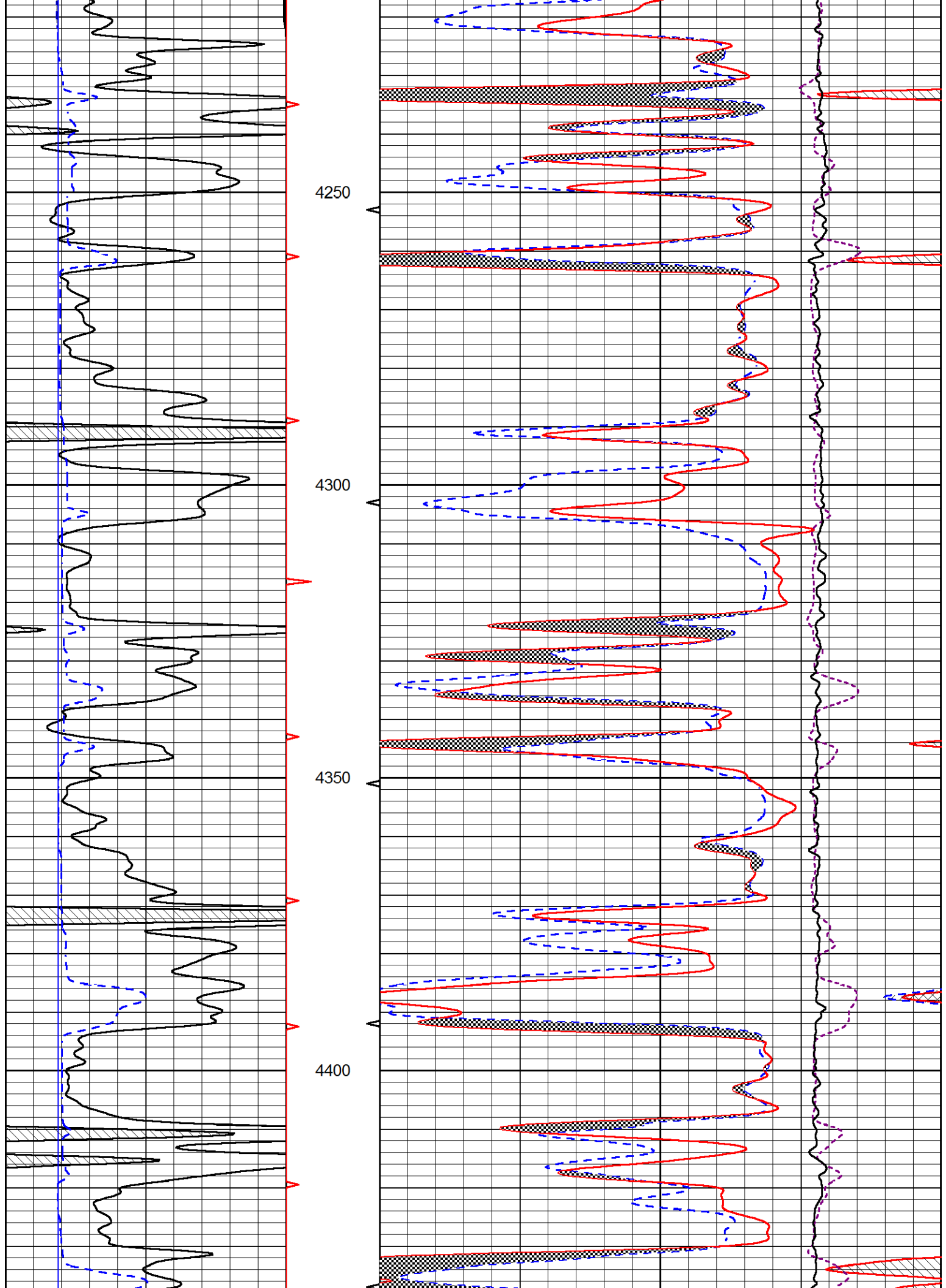


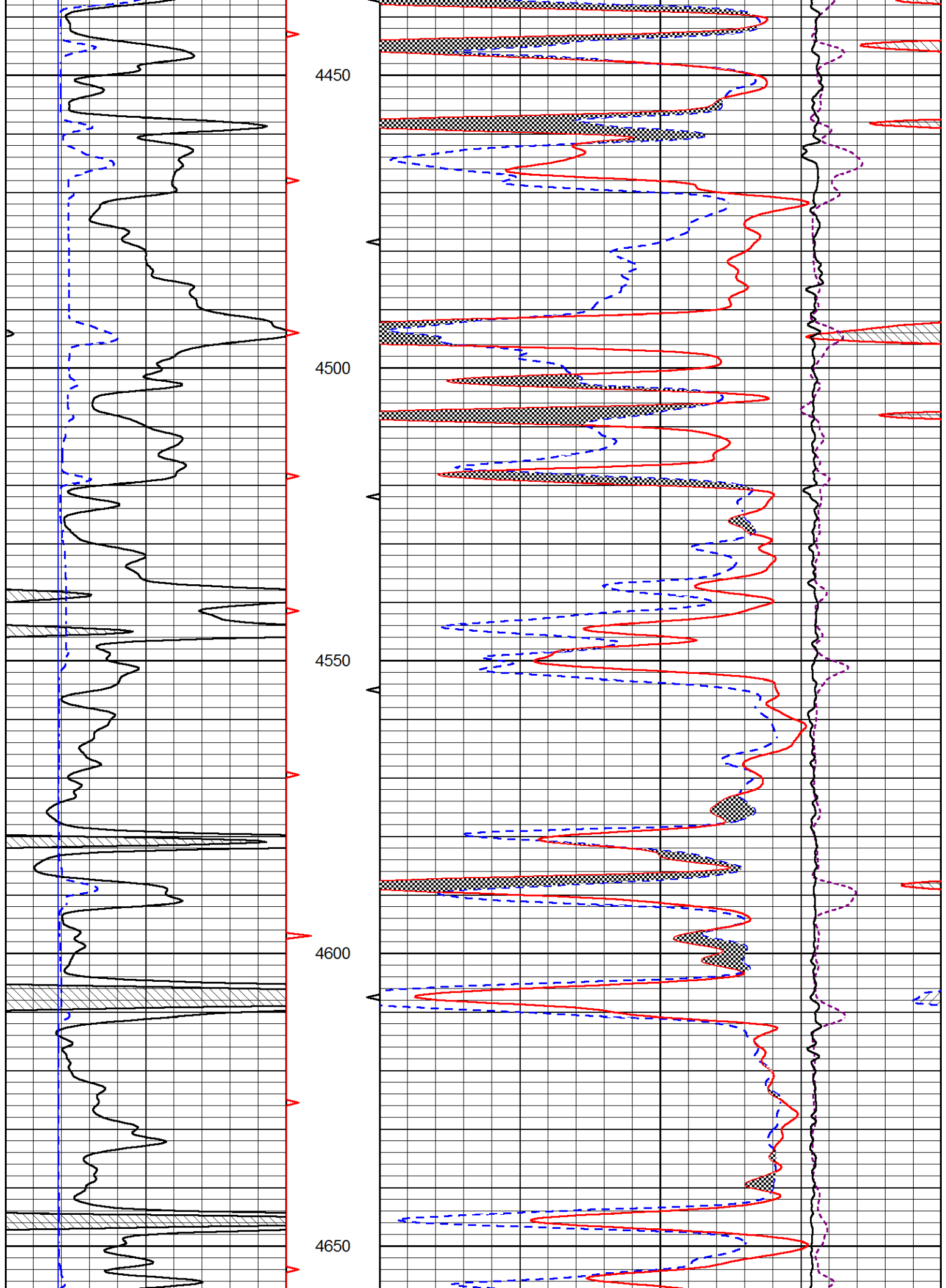
6	DCAL (in)	16
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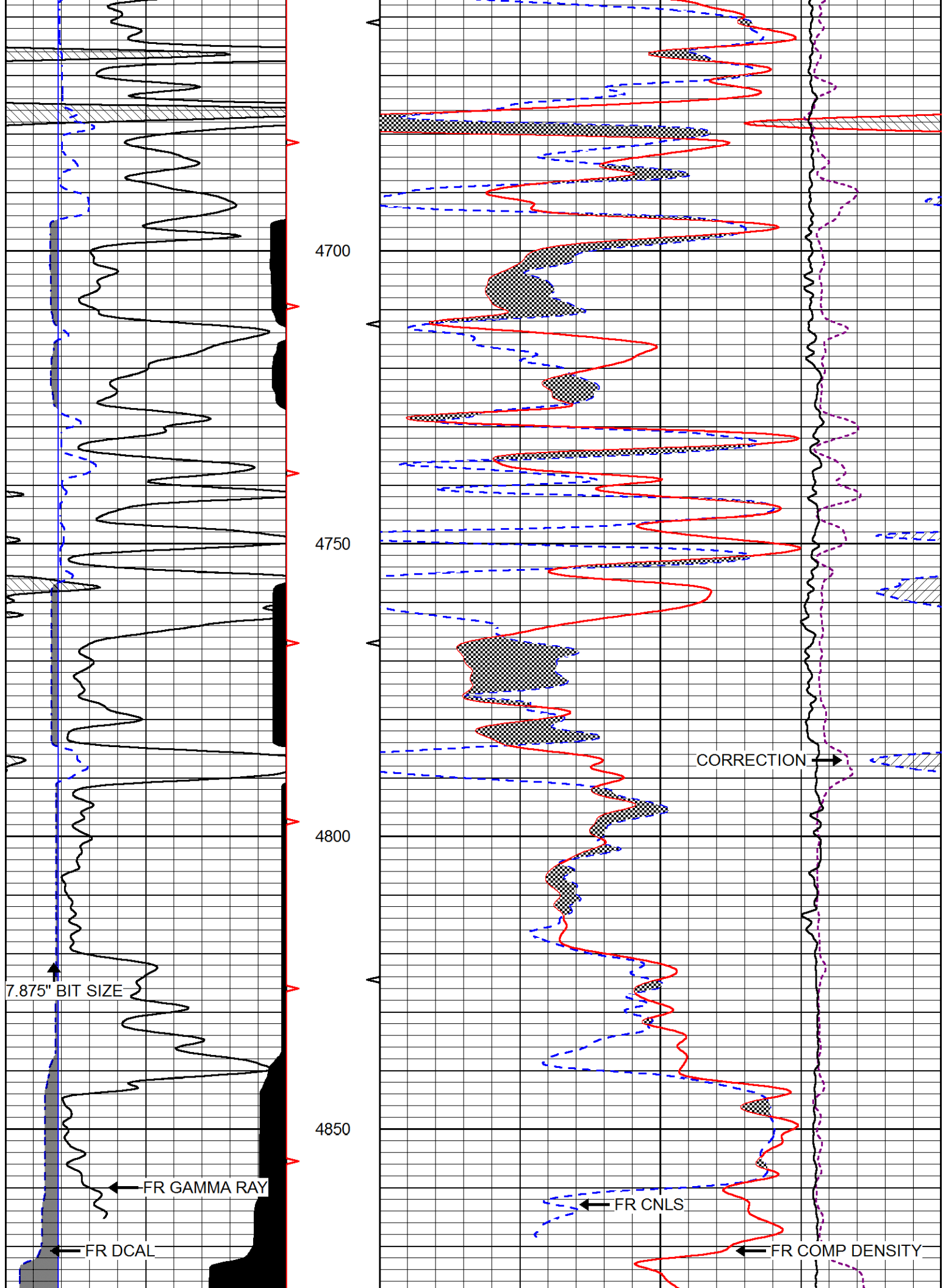
30	Compensated Density 2.71 g/cc (pu)		-10
10000	Line Tension (lb)		0
	-0.75	Correction (g/cc)	0.75

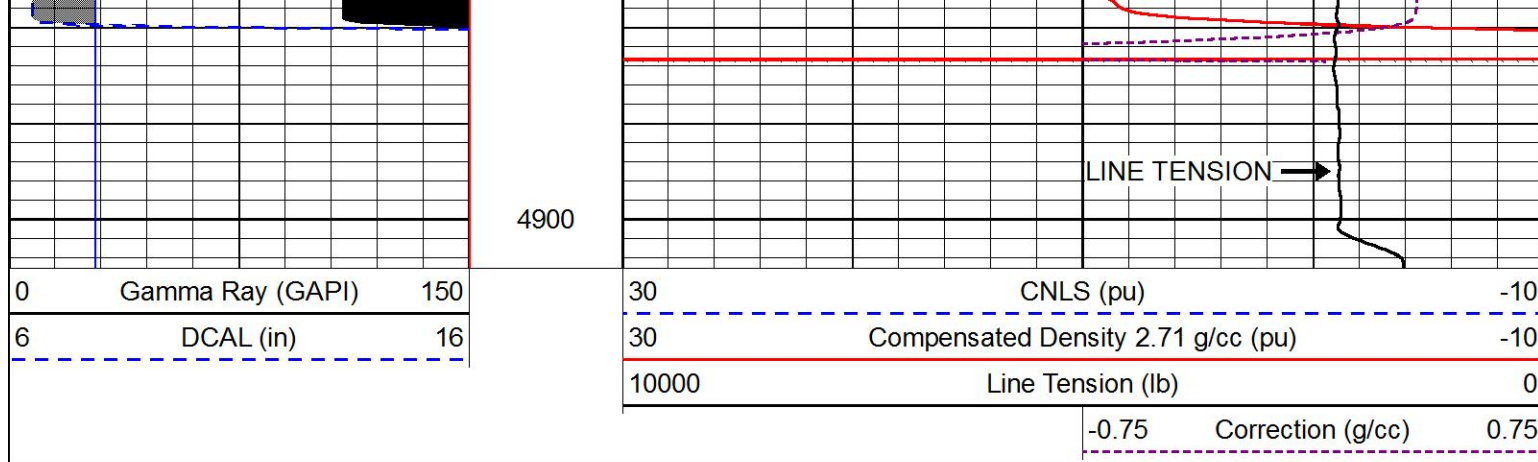






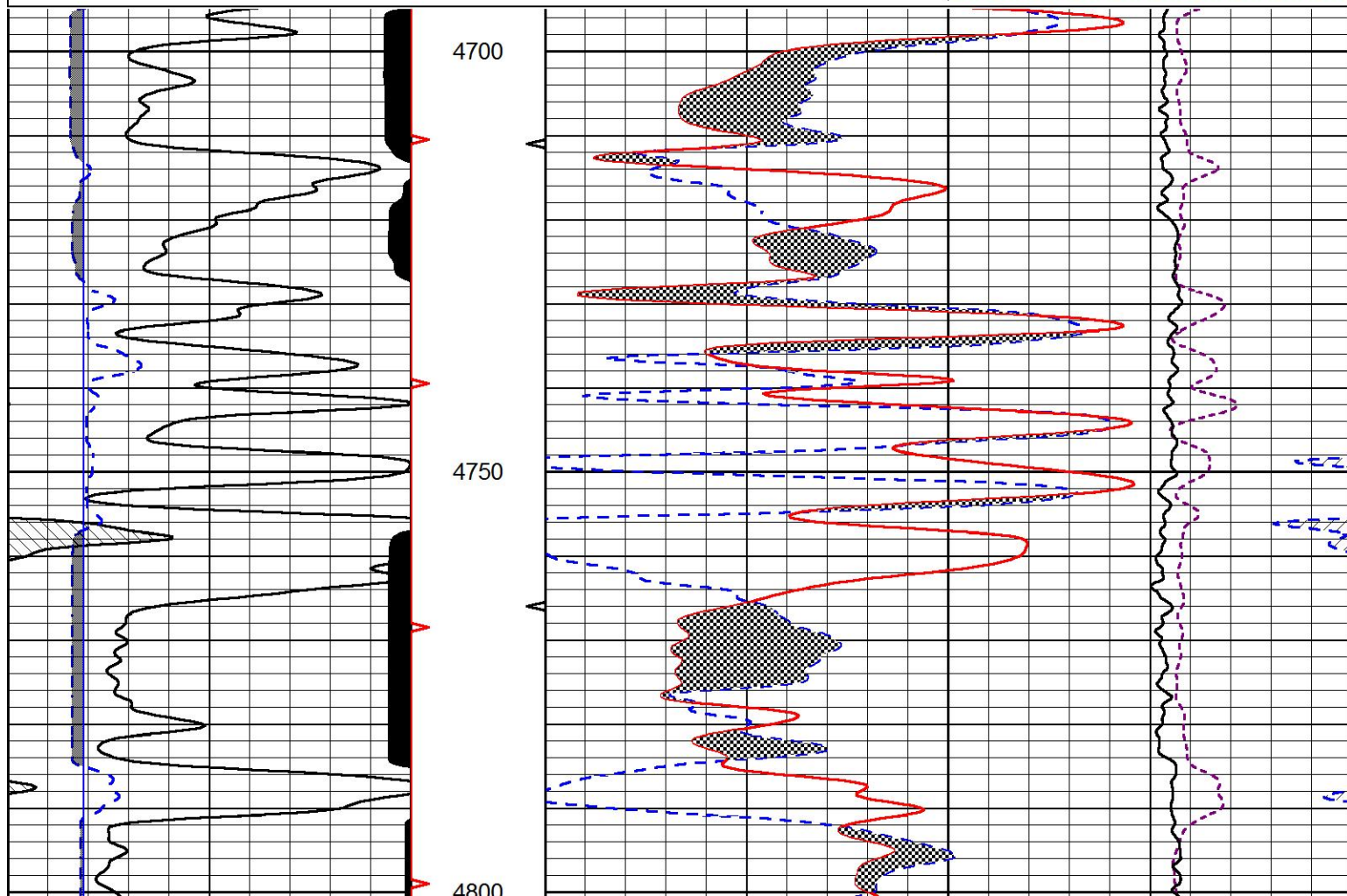
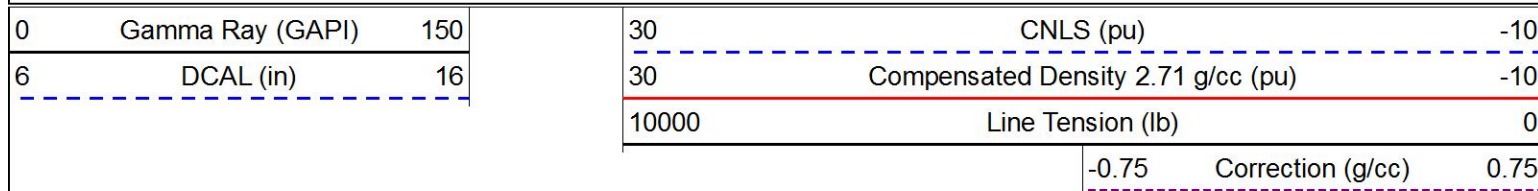


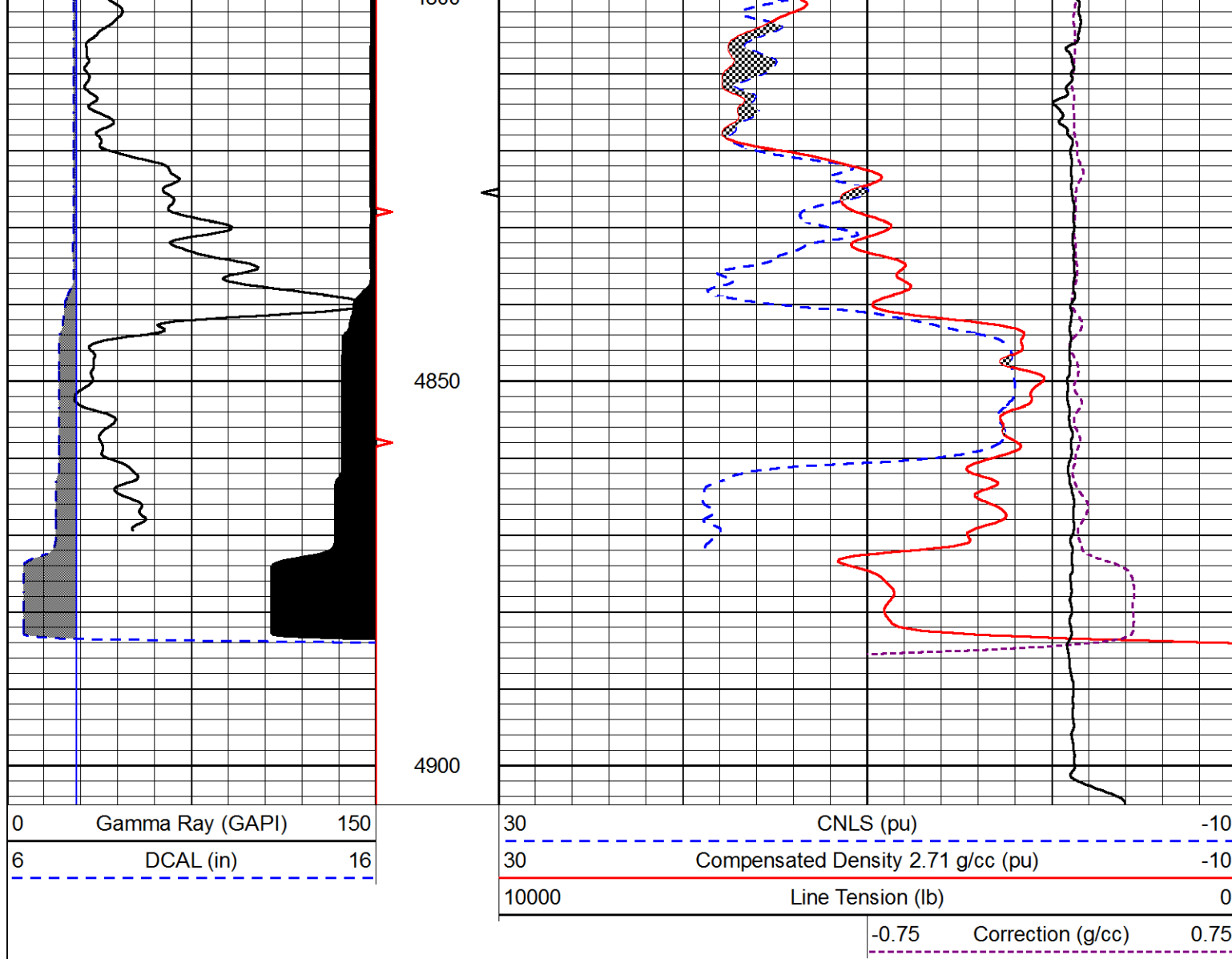




REPEAT SECTION

Database File val_wilson 1-3.db
 Dataset Pathname STKML/pass2.1
 Presentation Format cndlspec
 Dataset Creation Sun Oct 22 01:46:45 2017
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File: val_wilson 1-3.db
 Dataset Pathname: STKML/pass4.1
 Dataset Creation: Sun Oct 22 01:54:45 2017

Dual Induction Calibration Report

Serial-Model: PSI 91-M&W
 Calibration Performed: Wed Sep 13 22:23:16 2017

Readings			References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-31.500
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-29.500

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Wed Sep 06 19:50:56 2017

Readings		References		Results	
Zero	Cal	Zero	Cal	m	b

Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	62000.0000	-1.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	88000.0000	-1.1000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3300
Compensated Density Calibration Report							
Serial-Model:			90-1031-M&W				
Source / Verifier:			16955B / 2ci				
Master Calibration Performed:			Wed Sep 06 19:51:03 2017				
Master Calibration							
	Density		Far Detector		Near Detector		
Magnesium	1.755	g/cc	4903.44		6153.79	cps	
Aluminum	2.640	g/cc	934.50		4021.31	cps	
	Spine Angle = 75.61		Density/Spine Ratio = 0.517				
	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:			WED SEP 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:		Wed Sep 06 19:51:14 2017					
Calibrator Value:		1.0		GAPI			
Background Reading:		0.0		cps			
Calibrator Reading:		1.0		cps			
Sensitivity:		0.6000		GAPI/cps			

	Company	VAL ENERGY, INC.
	Well	WILSON #1-3
	Field	UNKNOWN
	County	THOMAS
	State	KANSAS