



PIONEER

Pioneer Energy Services NC.

DUAL COMP POROSITY LOG

Company PICKRELL DRILLING COMPANY, INC.
Well LAFON TRUST B #1
Field RANSOM NW
County NESS
State KANSAS

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Location: API #: 15-135-25949-00-00

2135' FNL & 1255' FEL

Other Services

SEC 17 TWP 16S RGE 24W

DIL/MEL

Permanent Datum GROUND LEVEL Elevation 2500'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

K.B. 2507'
D.F. N/A
G.L. 2500'

Date 5/6/2017

Run Number ONE

Type Log CNL/CDL

Depth Driller 4600'

Depth Logger 4598'

Bottom Logged Interval 4569'

Top Logged Interval 3700'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 3300

Density 9.4

Level FULL

Max. Rec. Temp. F 122

Operating Rig Time 3 HOURS

Equipment -- Location 91 HAYS

Recorded By D. SCHMIDT

Witnessed By AARON YOUNG

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	207'	8.625"	23#	0'	207'
TWO	7.875"	207'	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.

RANSOM,
3 WEST,
1 NORTH, 1/4 WEST,
NORTH INTO

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

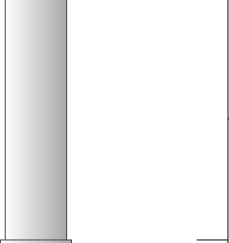
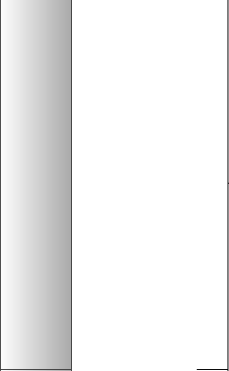
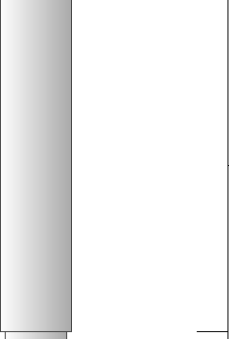
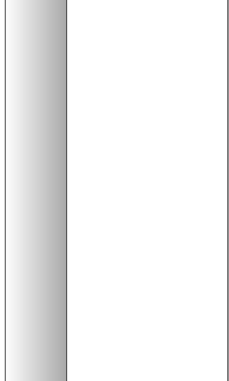
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: AARON YOUNG
Secondary Witness:
Secondary Witness:
Secondary Witness:

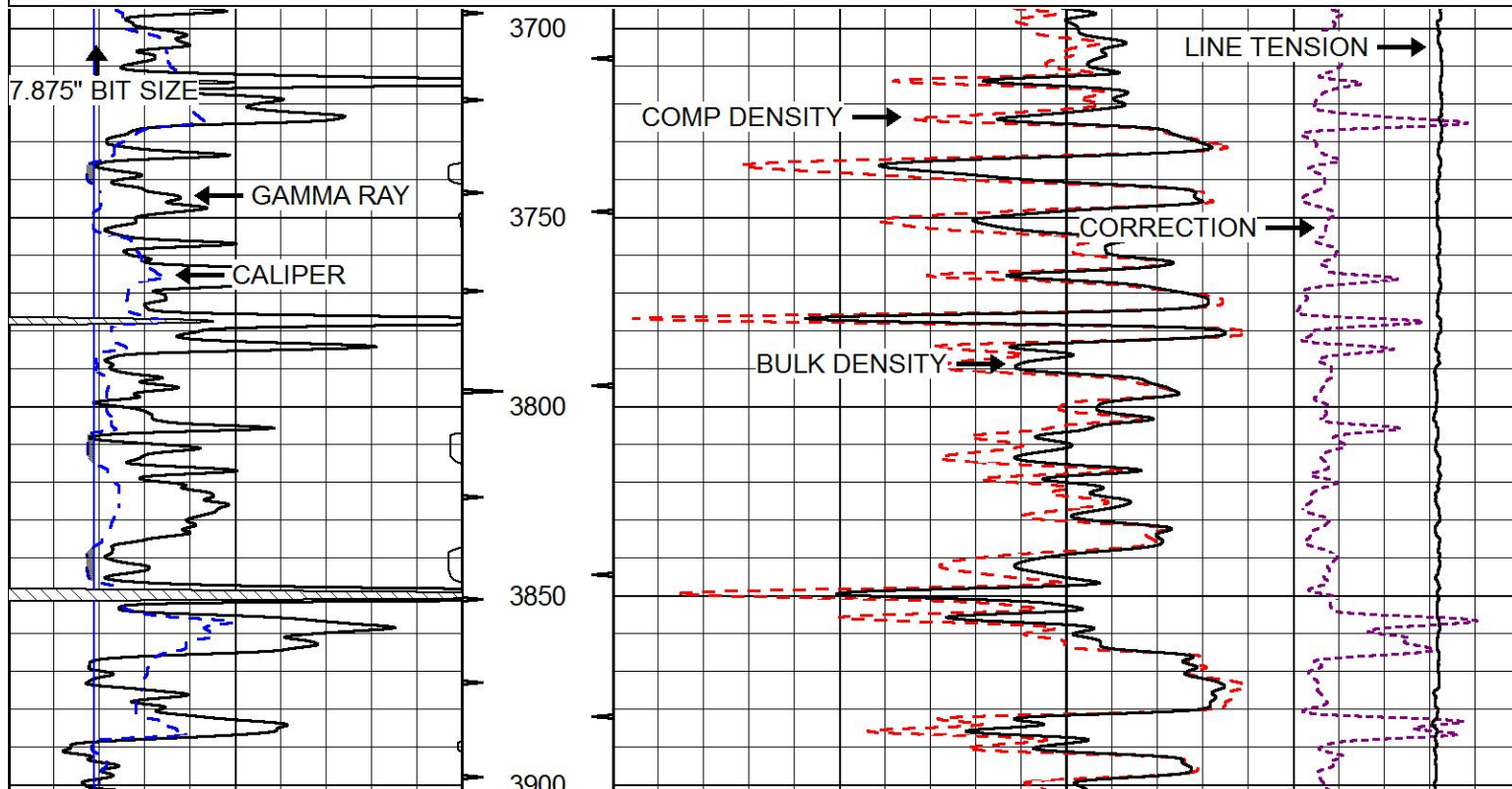
Top - Bottom

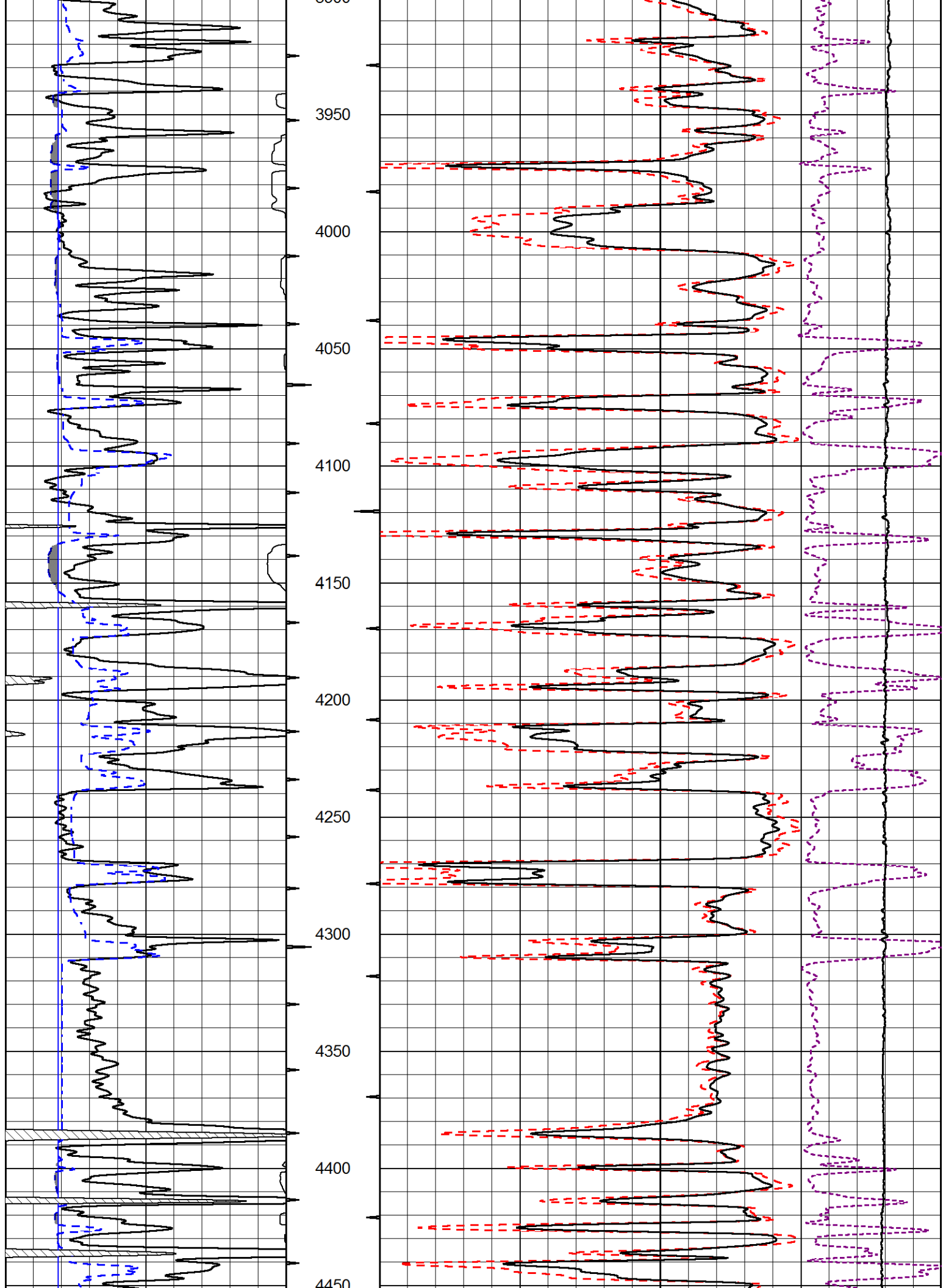
M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	340	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	4598	122	7.875

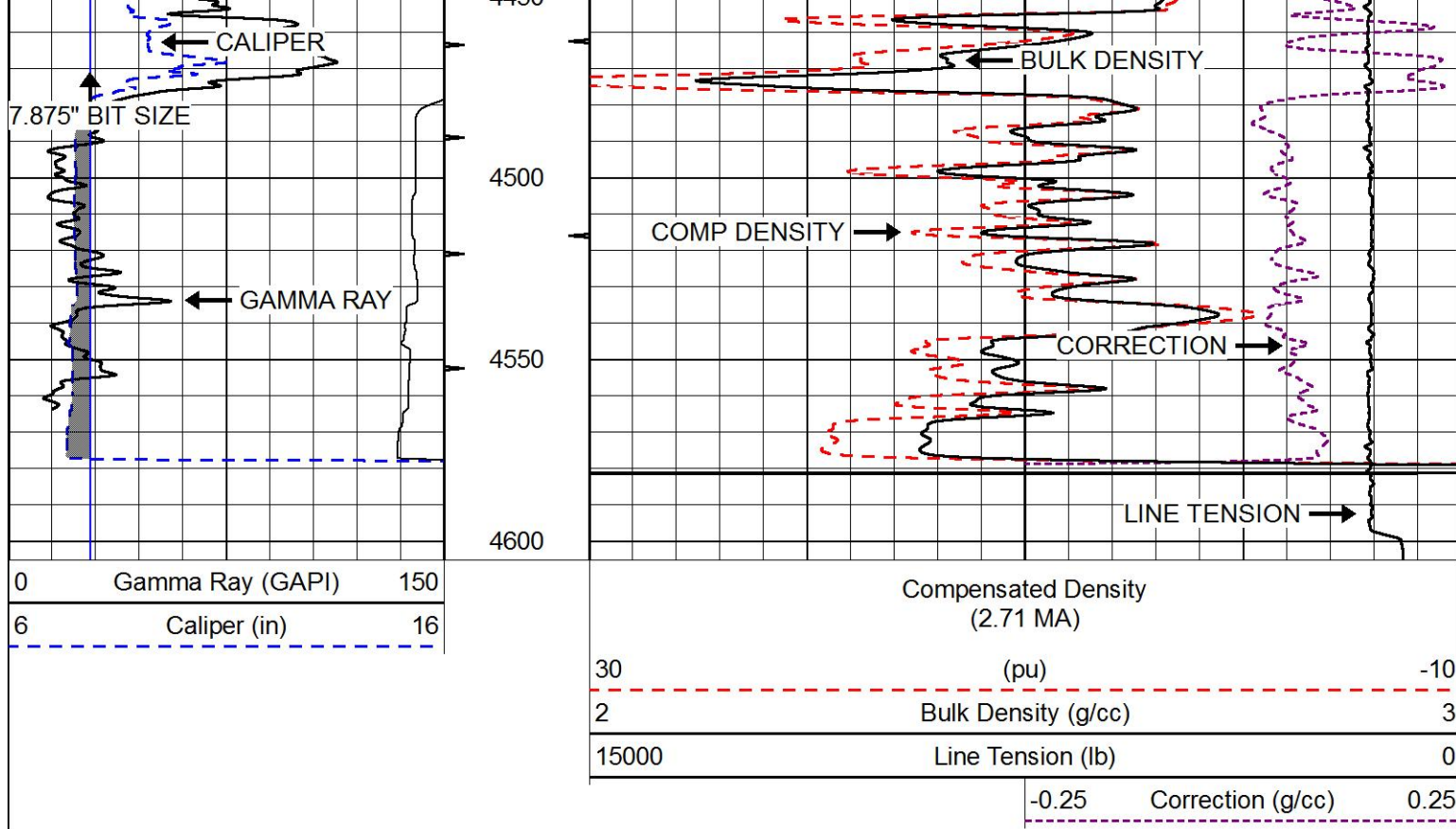
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools 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: pickrell drilling_lafon trust_b 1.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 pickrell drilling_lafon trust_b 1.db Dataset Pathname STKML/pass3.1 Presentation Format cdl Dataset Creation Sat May 06 18:55:52 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			





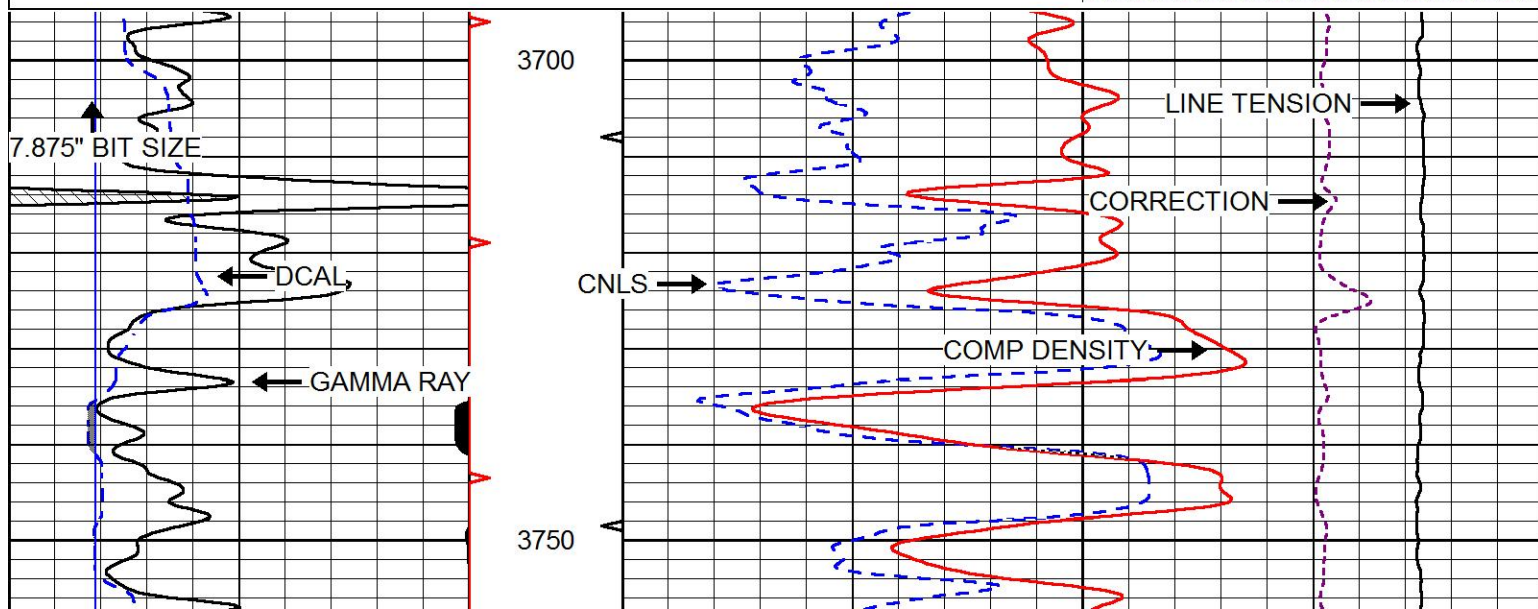
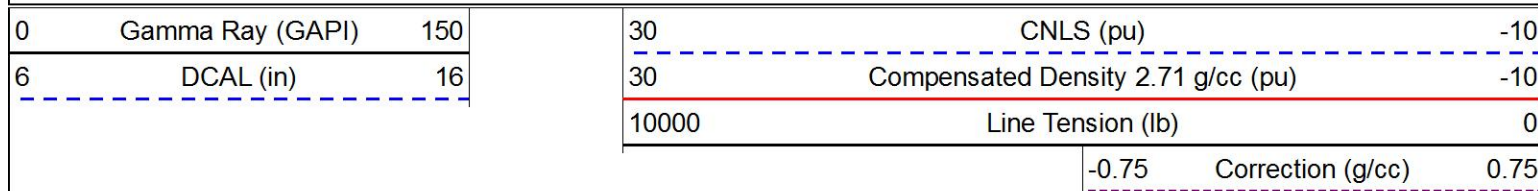


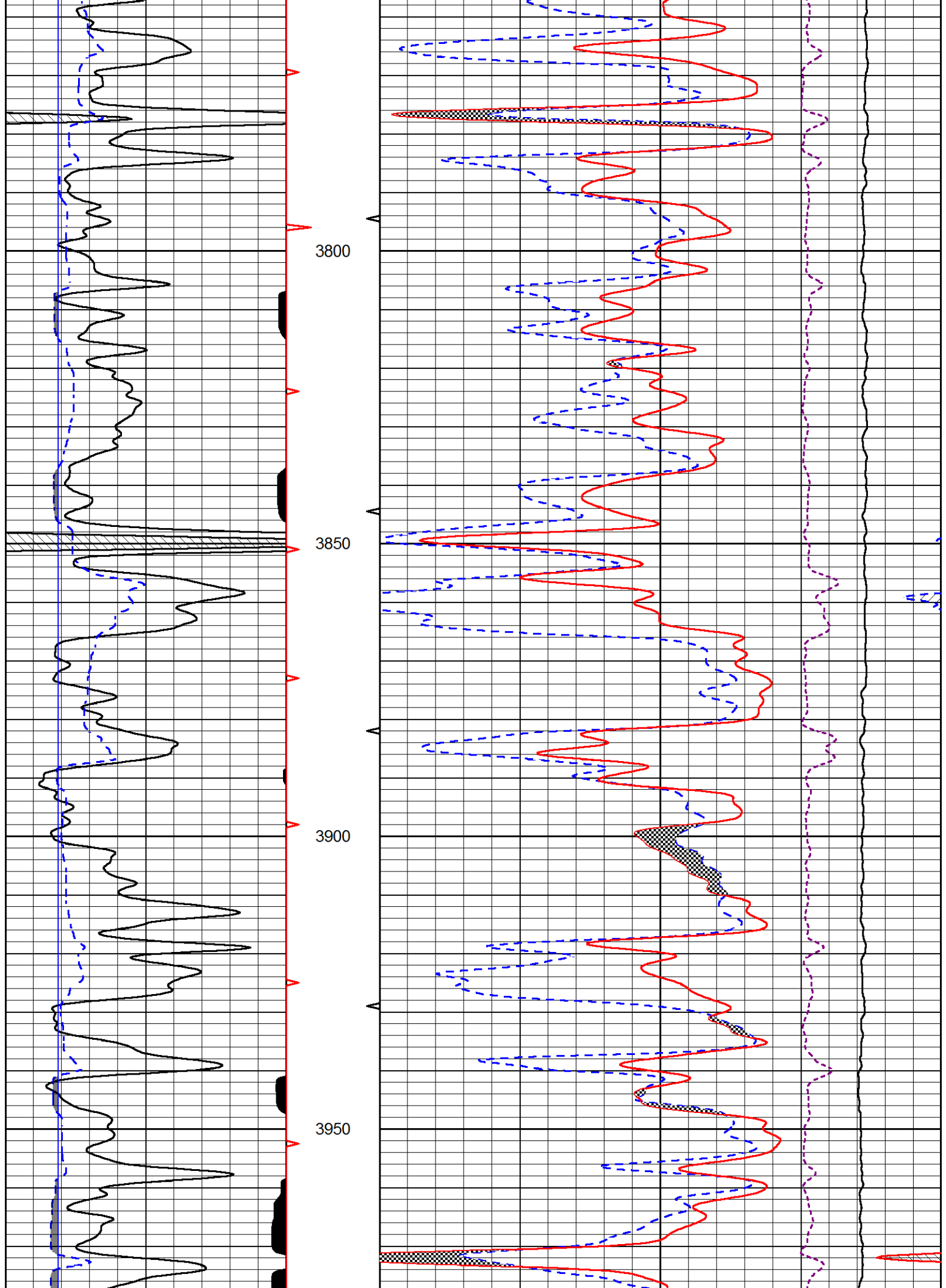


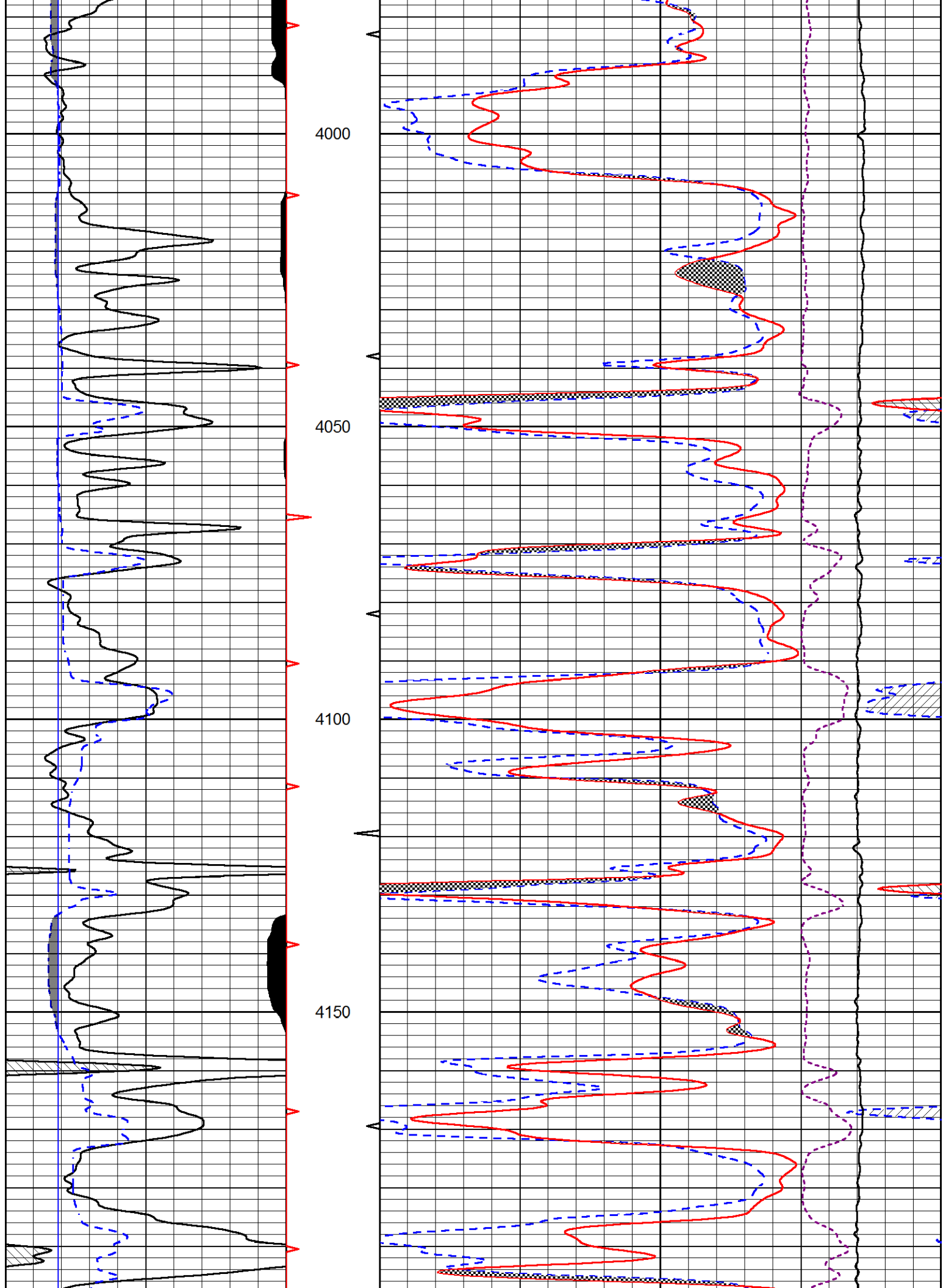
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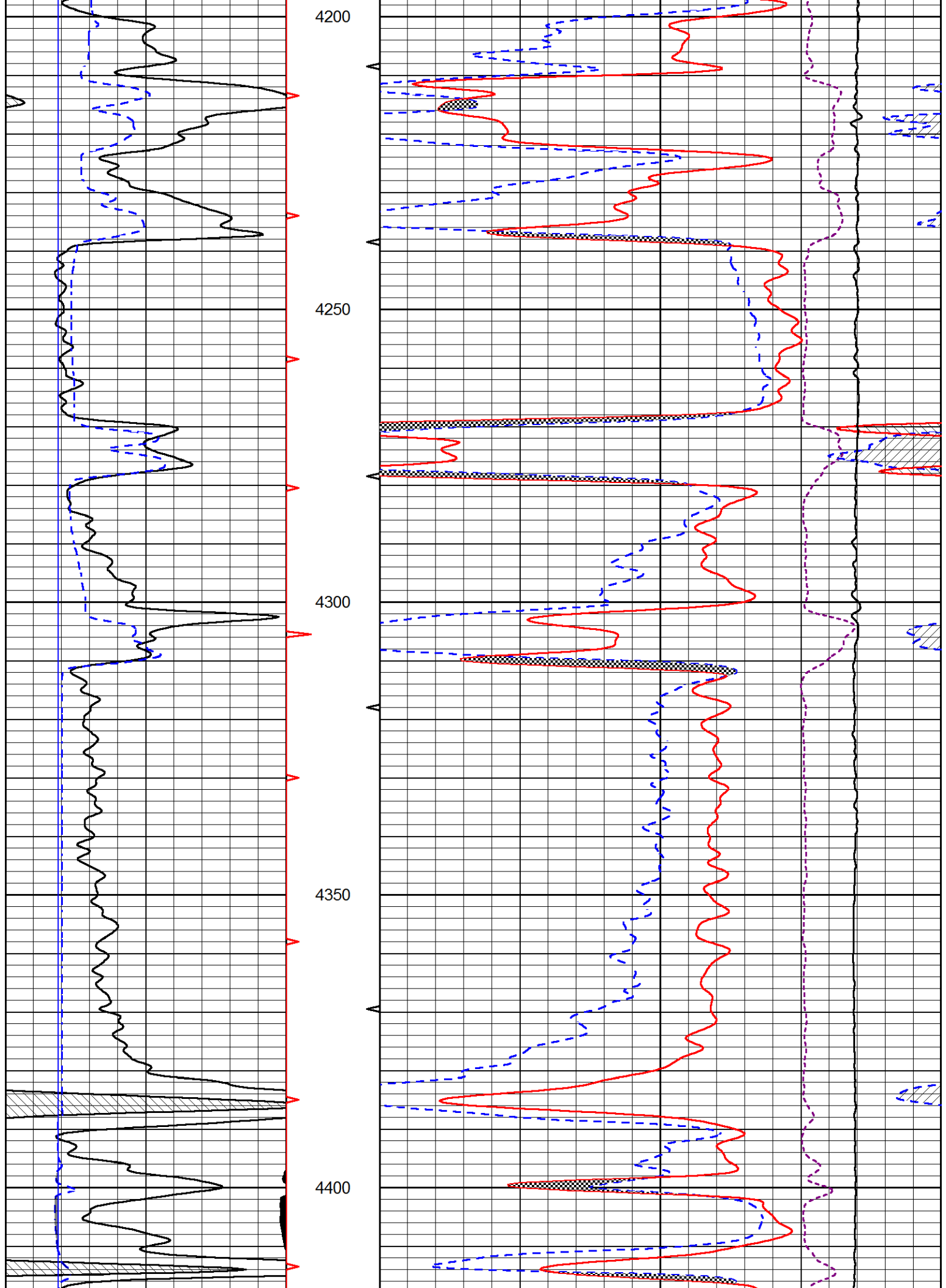
MAIN PASS

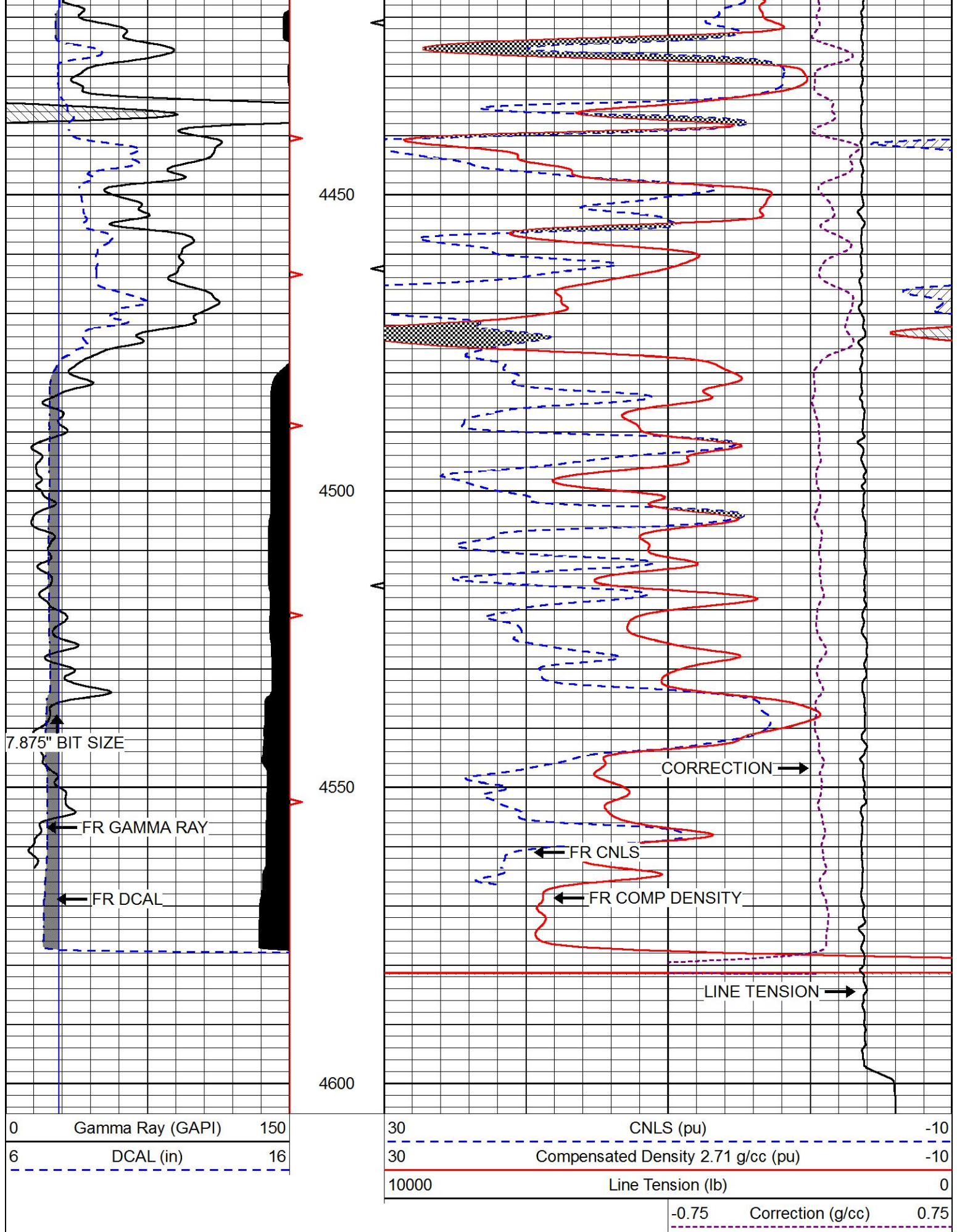
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 Dataset Pathname STKML/pass3.1
 Presentation Format cndlspec
 Dataset Creation Sat May 06 18:55:52 2017
 Charted by Depth in Feet scaled 1:240







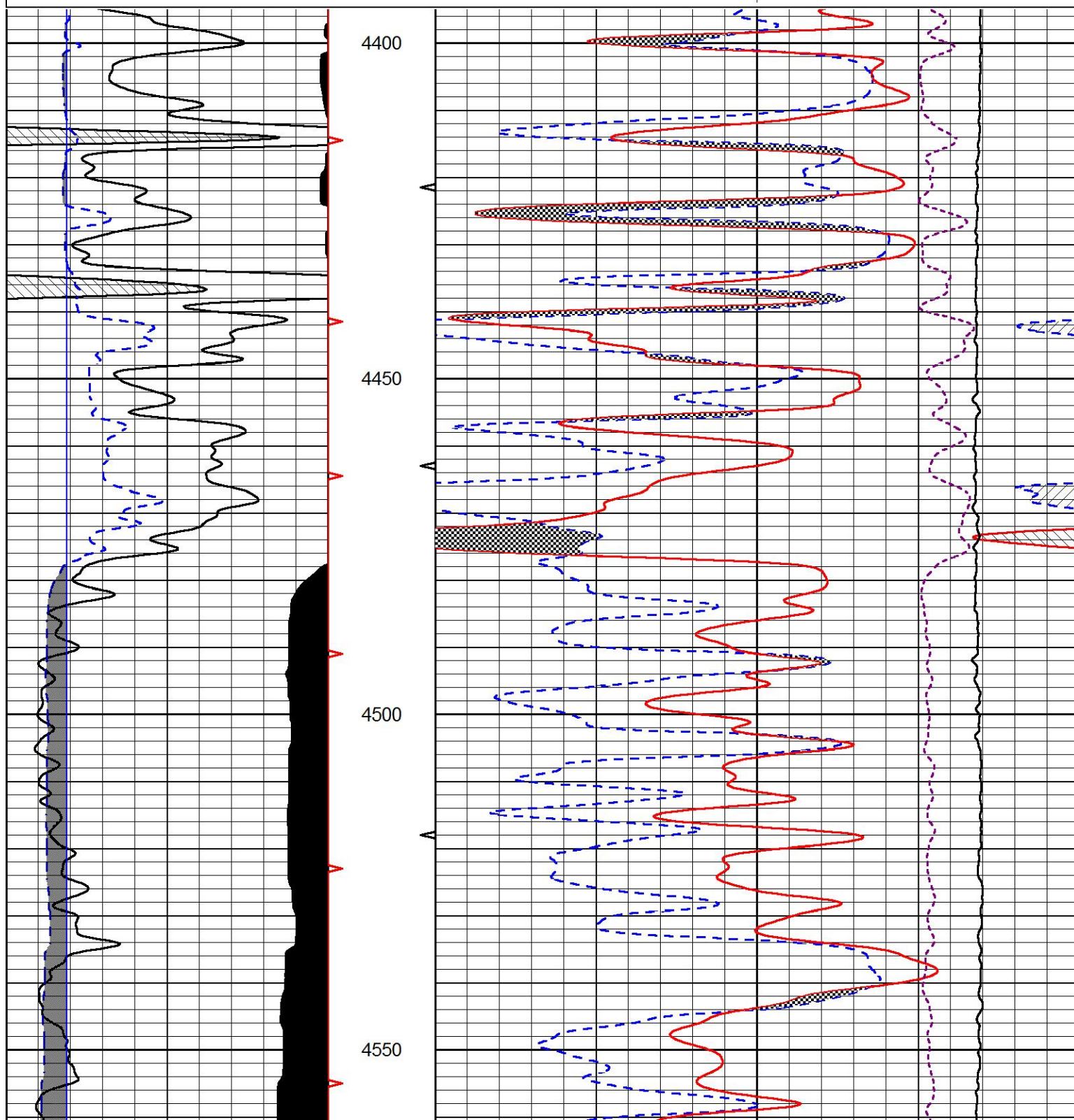


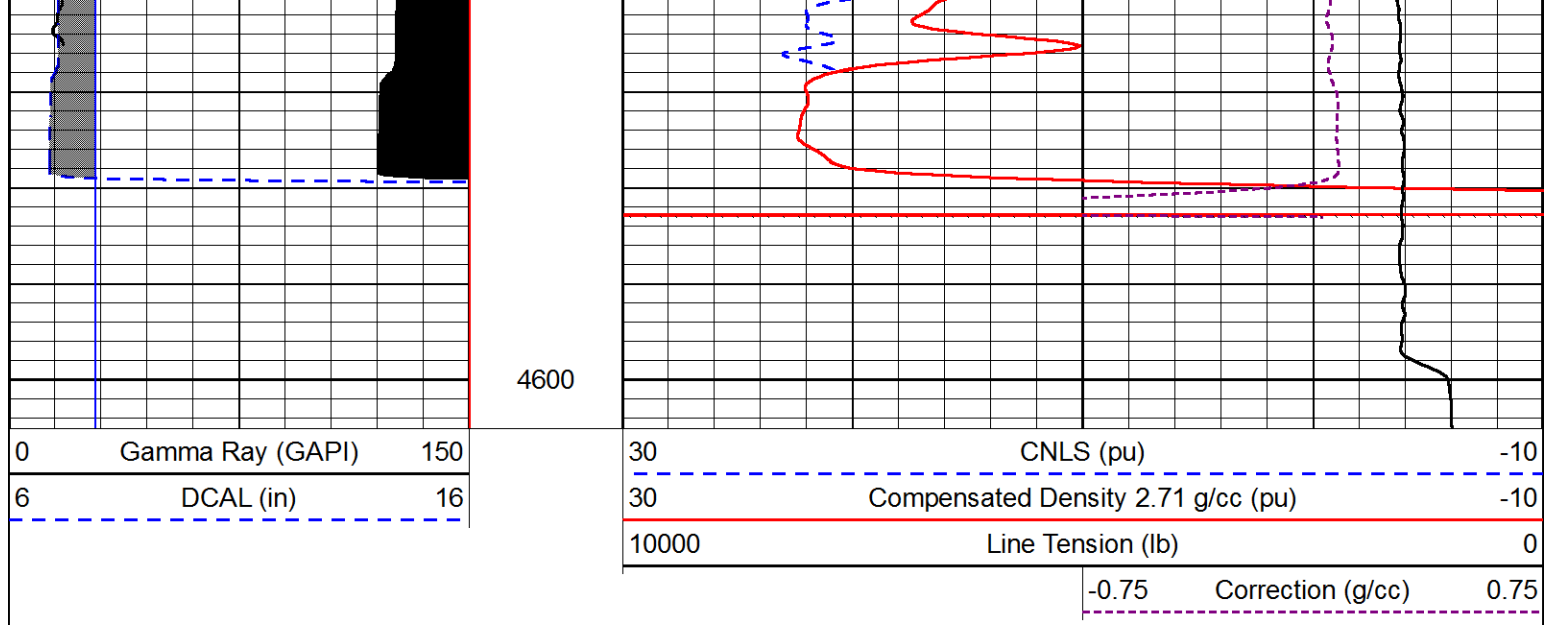


Database File pickrell drilling_lafon trust_b 1.db
 Dataset Pathname STKML/pass2.1
 Presentation Format cndlspec
 Dataset Creation Sat May 06 18:59:58 2017
 Charted by Depth in Feet scaled 1:240

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





Calibration Report							
Database File	pickrell drilling_lafon trust_b 1.db						
Dataset Pathname	STKML/pass3.1						
Dataset Creation	Sat May 06 18:55:52 2017						
Dual Induction Calibration Report							
Serial-Model:				PSI 91-M&W			
Calibration Performed:				Sat May 06 17:53:33 2017			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	Gain	Offset
Deep	166.796	835.089		0.000	255.800	mmho/m	0.410
Medium	142.009	1348.560		0.000	255.800	mmho/m	0.360
							-30.000
							-31.000
Microlog Calibration Report							
Serial-Model:				PSI-01-PSIML			
Performed:				Sat May 06 17:53:42 2017			
		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	21500.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	20000.0000
Caliper	1.0001	1.1397		6.5000	18.5000	in	100.0000
							-1.1000
							-0.3000
							-97.3750
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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