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DUAL COMP POROSITY LOG

Company CARMEN SCHMITT, INC.
Well GLEASON #1
Field HORACEK
County HODGEMAN State KANSAS

Location: API # : 15-083-21943-00-00
1390' FNL & 330' FEL
SEC 14 TWP 23S RGE 21W

Other Services
CNL/CDL

Elevation
K.B. 2334'
D.F. N/A
G.L. 2329'

Company	CARMEN SCHMITT, INC.
Well	GLEASON #1
Field	HORACEK
County	HODGEMAN
State	KANSAS
Location:	API # : 15-083-21943-00-00
	1390' FNL & 330' FEL
	SEC 14 TWP 23S RGE 21W
Other Services	CNL/CDL
Elevation	K.B. 2334' D.F. N/A G.L. 2329'
Permanent Datum	GROUND LEVEL Elevation 2329'
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING

Date	9/13/2017
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4598'
Depth Logger	4599'
Bottom Logged Interval	4595'
Top Logged Interval	3800'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	3050
Density	9.3
Level	FULL
Max. Rec. Temp. F	122
Operating Rig Time	3 1/2 HOURS
Equipment -- Location	91 HAYS
Recorded By	D. SCHMIDT
Witnessed By	BRAD RINE

Borehole Record

Run No.	Bit	From	To
ONE	12.25"	0'	218'
TWO	7.875"	218'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0'	218'

<<< 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.

BURDETT,
10 SOUTH ON 340TH TO D RD, 4 WEST TO 235 RD, 1/2 NORTH,
WEST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: BRAD RINE
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\carmen schmitt_gleason 1.db
Dataset field/well/STACK/pass3.4/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	238	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	4599	122	7.875

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

CILM	4.70	
SP	0.20	

Dataset:	carmen schmitt_gleason 1.db: field/well/STACK/pass3.4
Total length:	35.50 ft
Total weight:	620.00 lb
O.D.:	4.00 in

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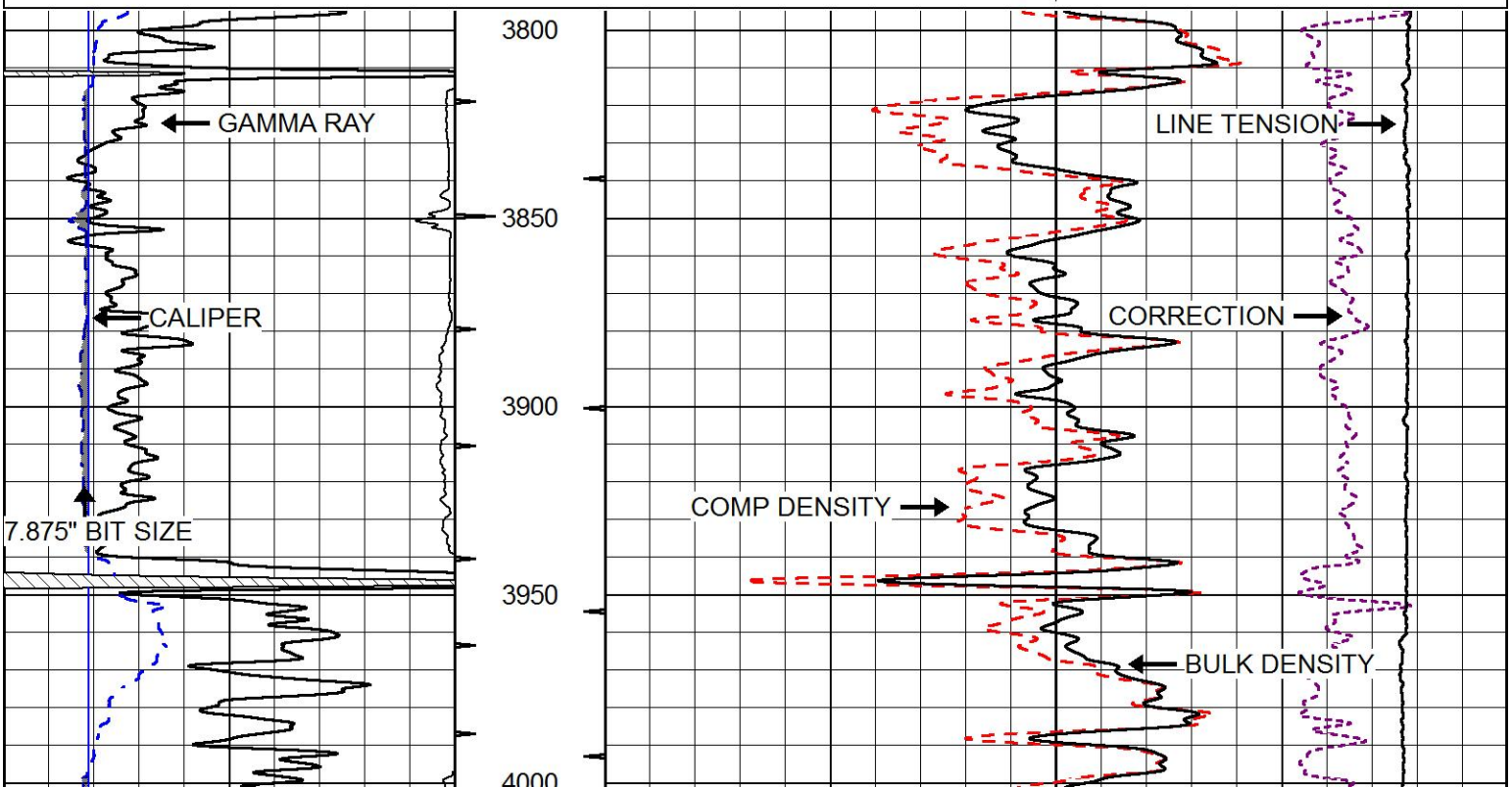
MAIN PASS

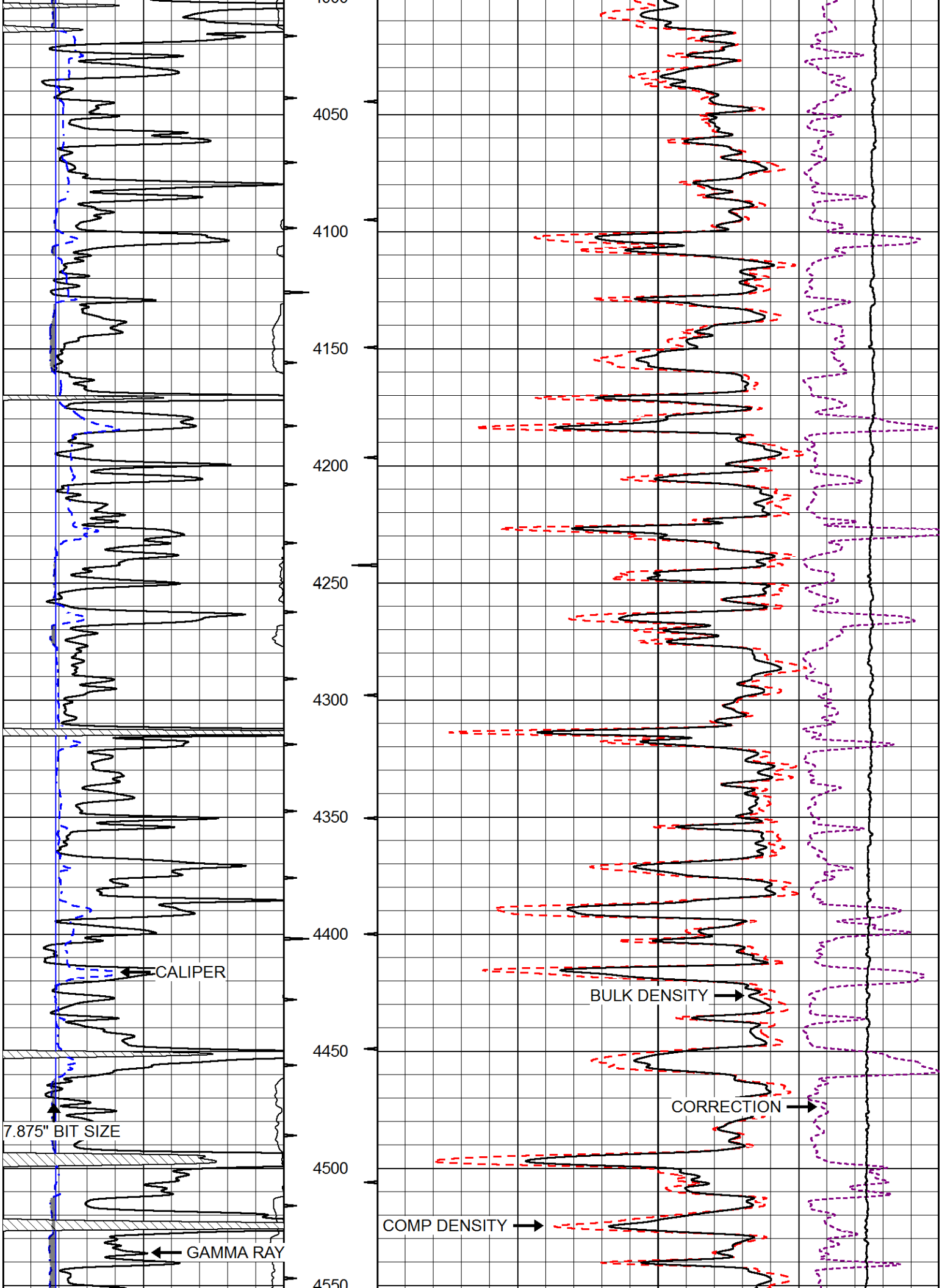
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Dataset Pathname	STACK/pass3.1
Presentation Format	cdl
Dataset Creation	Wed Sep 13 23:11:31 2017
Charted by	Depth in Feet scaled 1:600

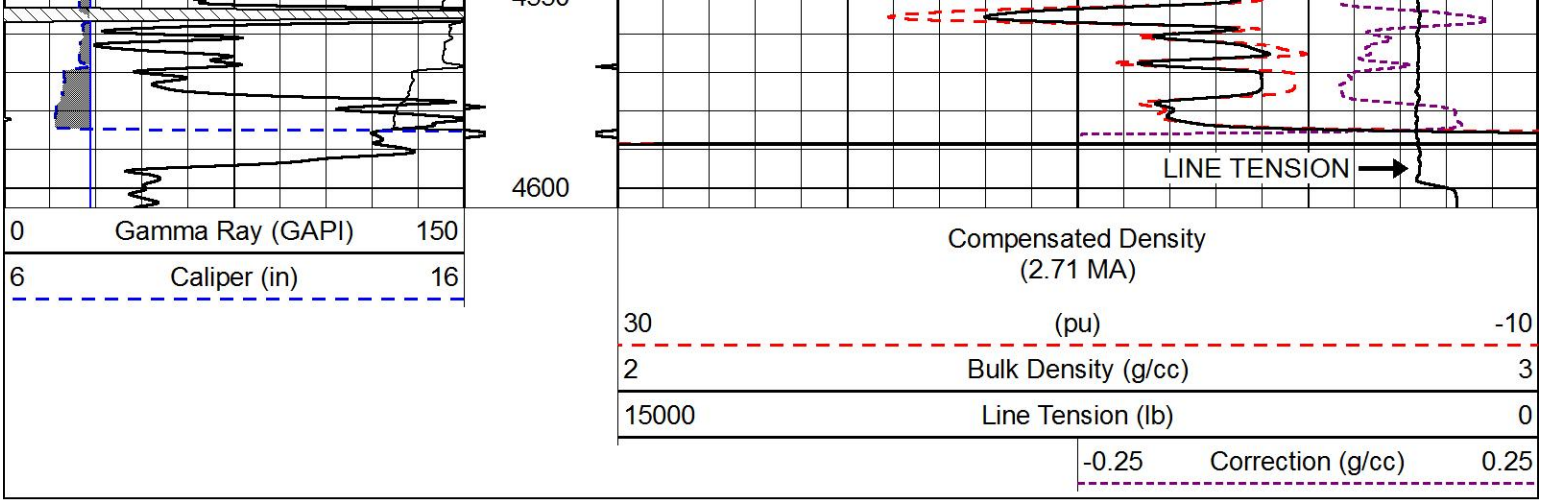
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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



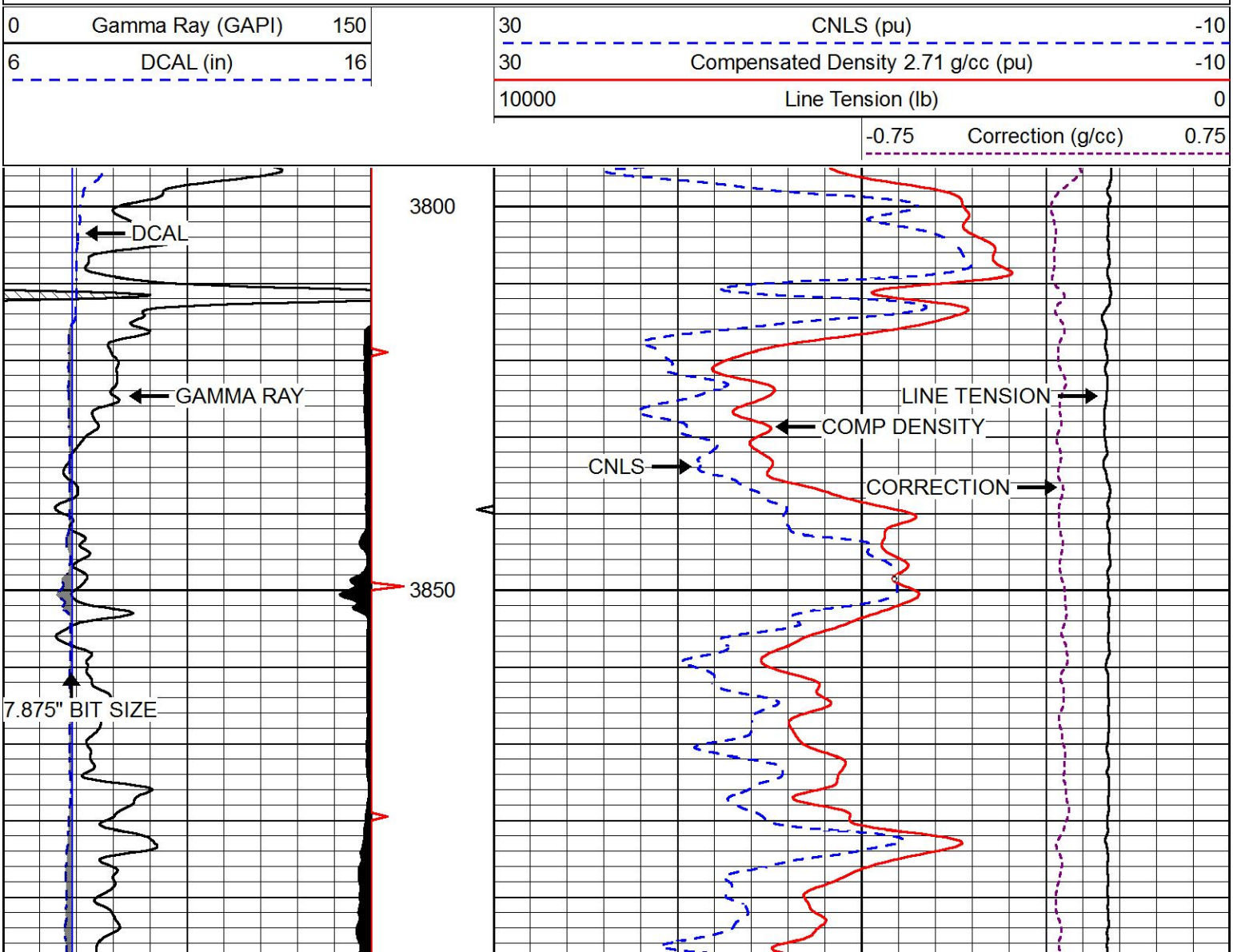

4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
CALIPER
7.875" BIT SIZE
GAMMA RAY
BULK DENSITY
CORRECTION
COMP DENSITY

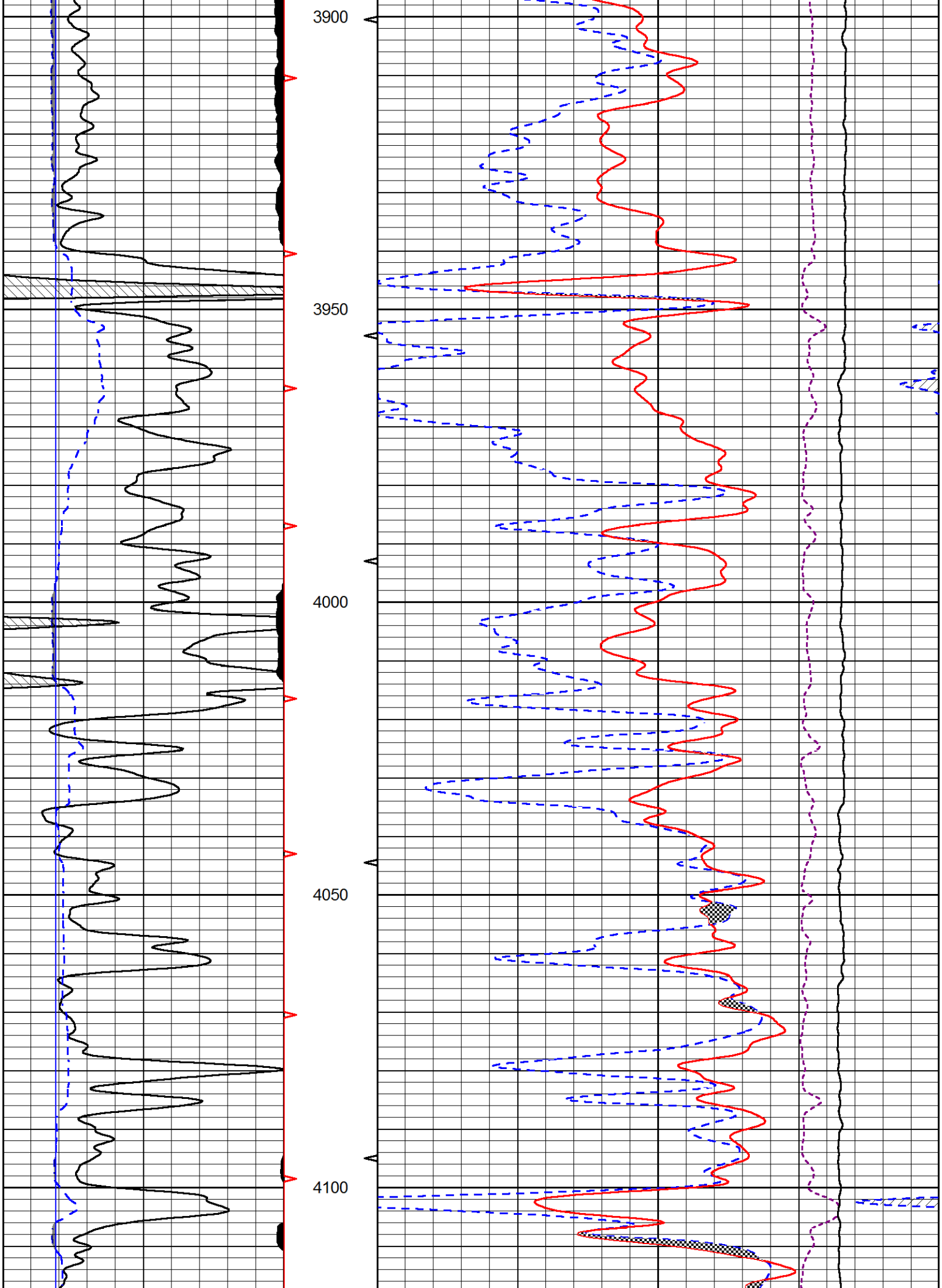


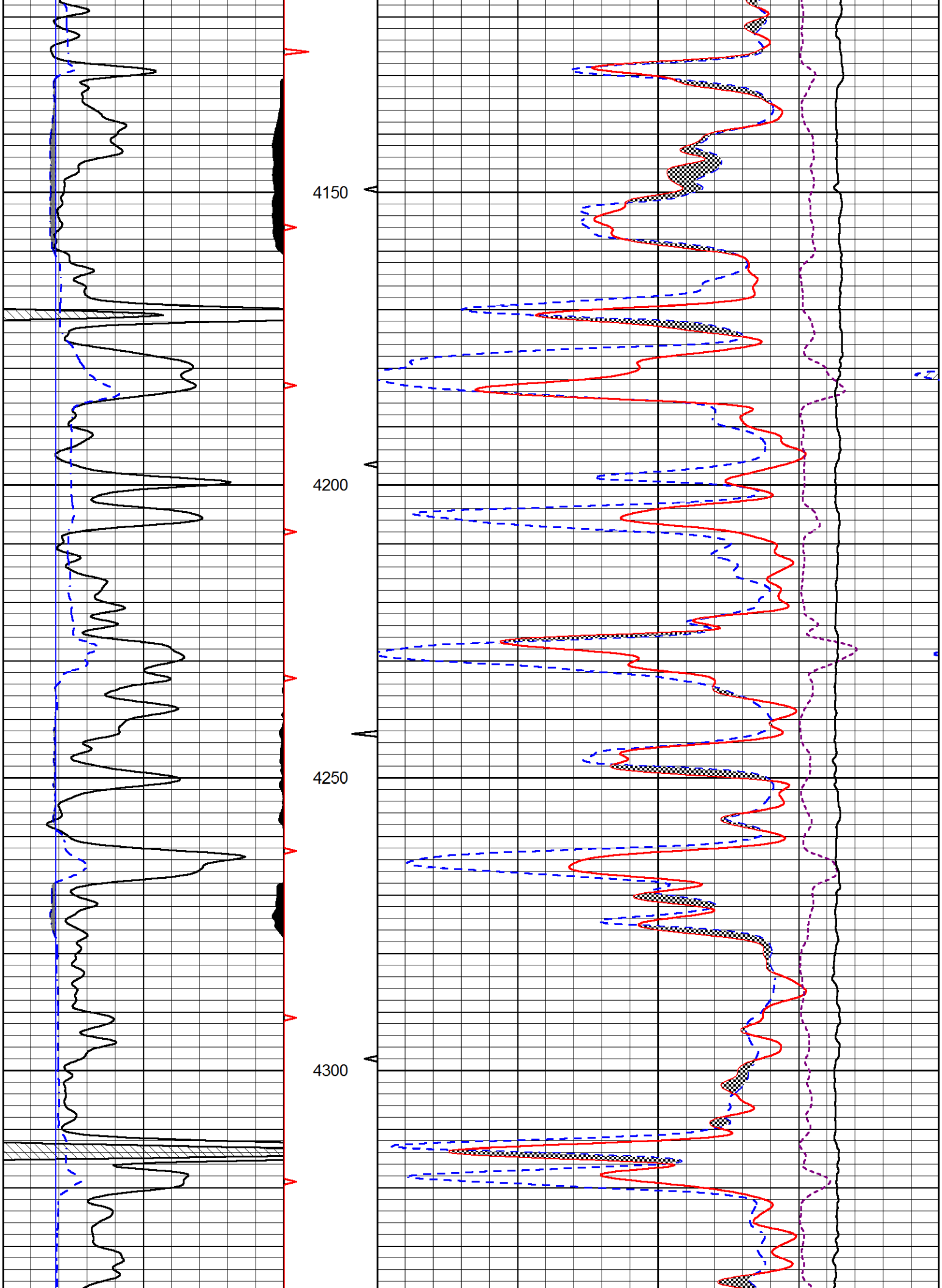
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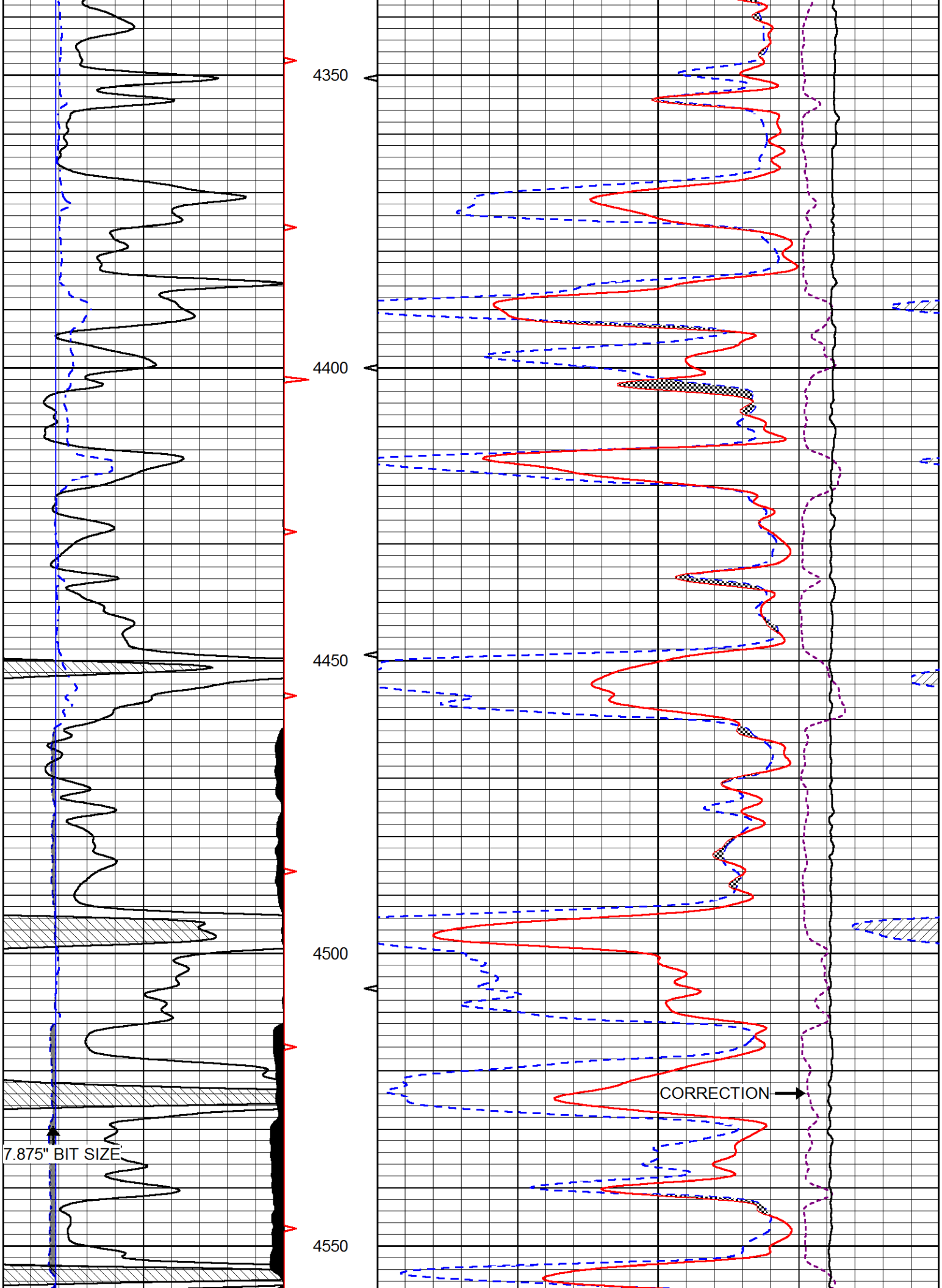
MAIN PASS

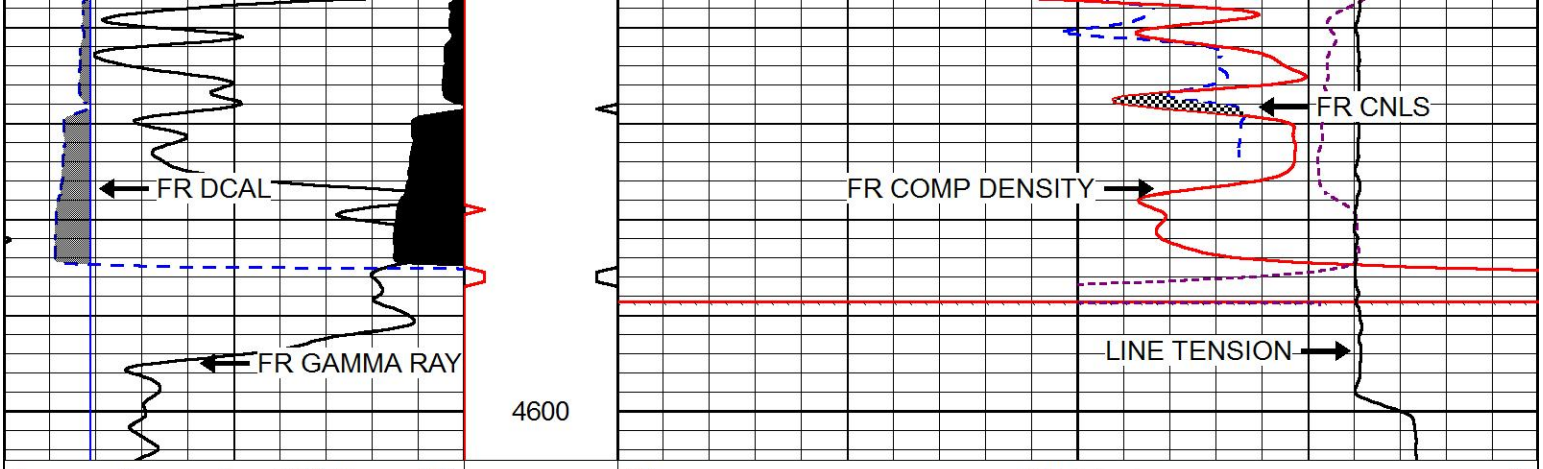
Database File	carmen schmitt_gleason 1.db
Dataset Pathname	STACK/pass3.1
Presentation Format	cndlspec
Dataset Creation	Wed Sep 13 23:11:31 2017
Charted by	Depth in Feet scaled 1:240




3900
3950
4000
4050
4100


4150
4200
4250
4300

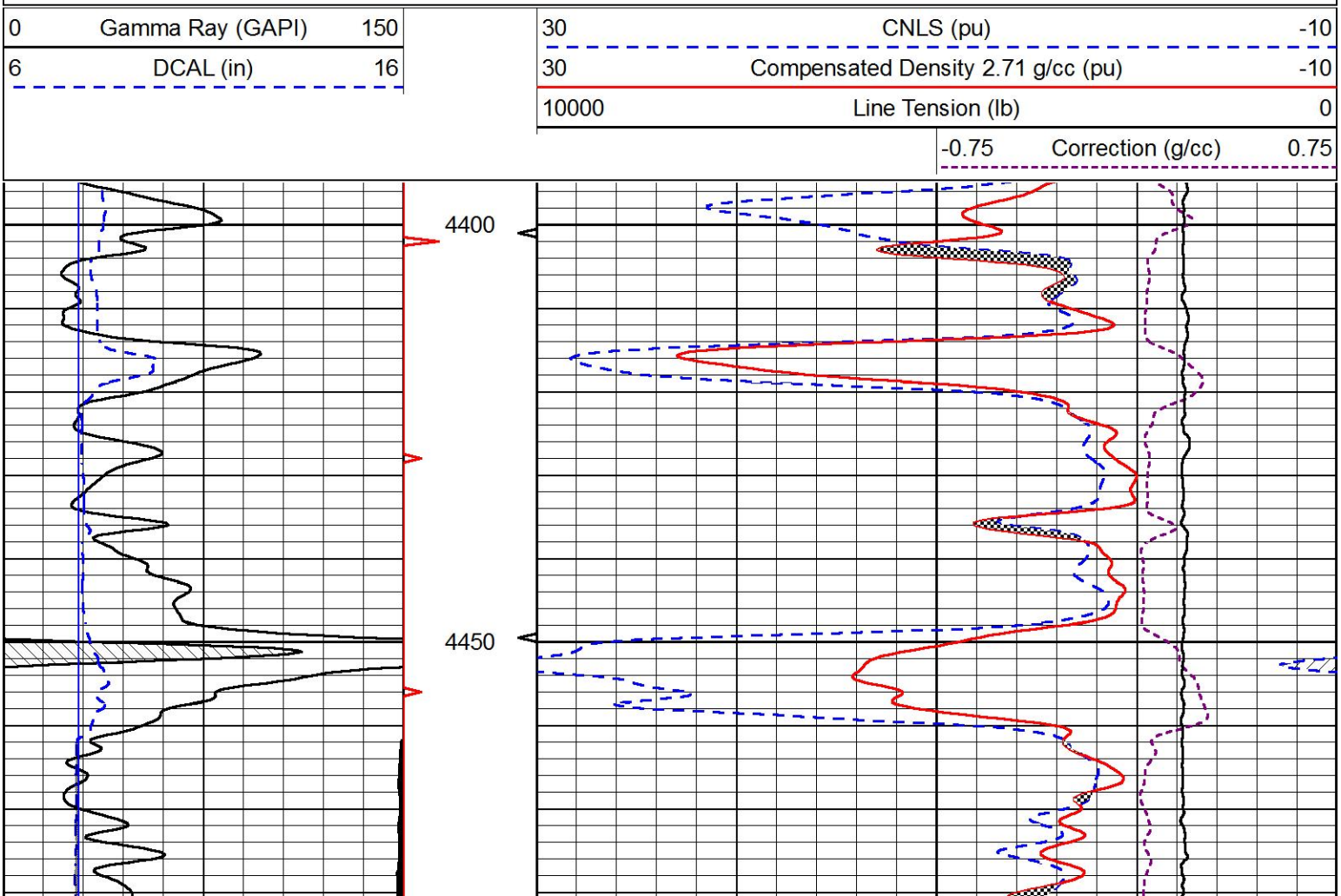

4350
4400
4450
4500
4550
CORRECTION
7.875" BIT SIZE

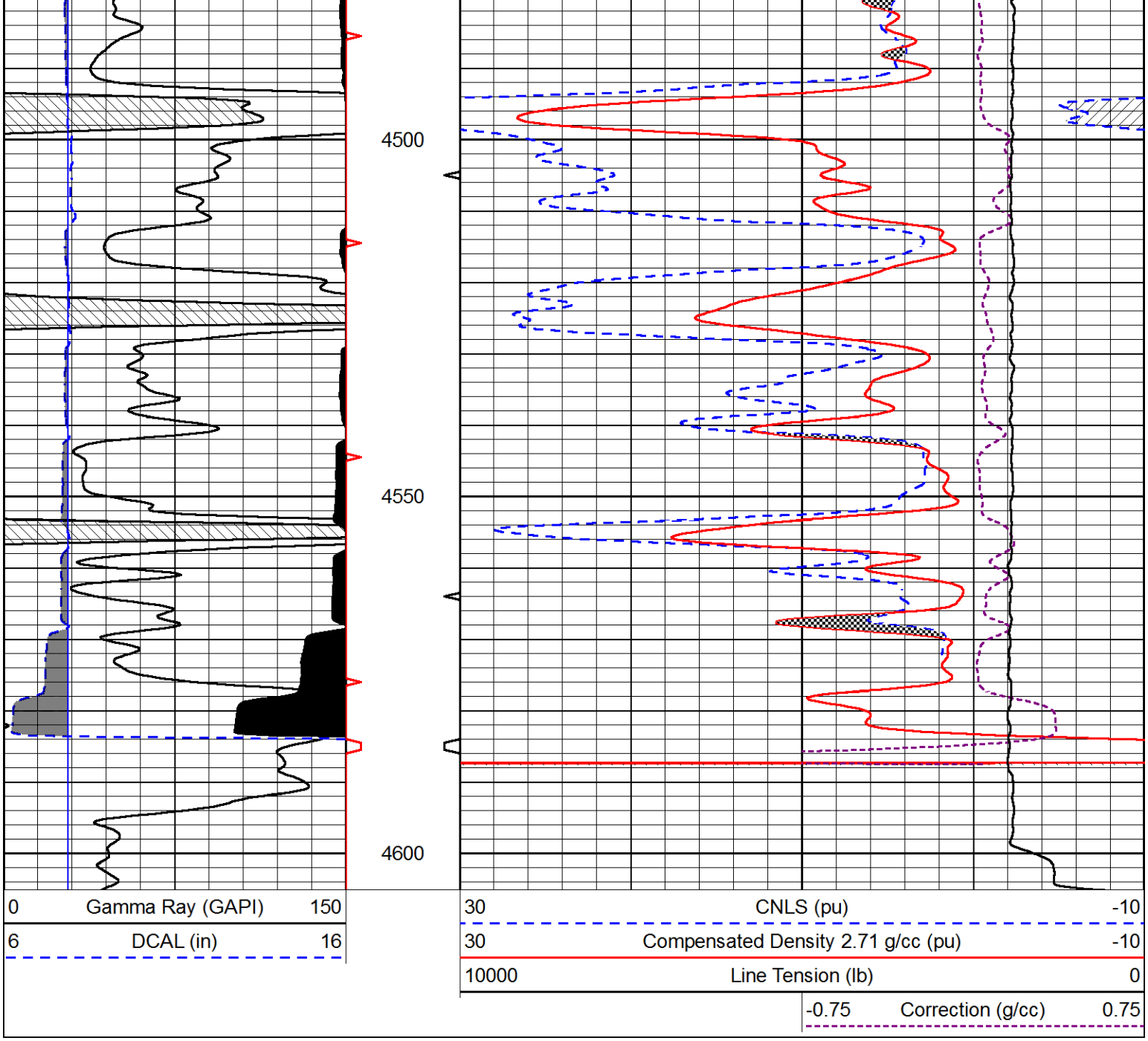


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REPEAT SECTION

Database File	carmen schmitt_gleason 1.db
Dataset Pathname	STACK/pass2.2
Presentation Format	cndlspec
Dataset Creation	Wed Sep 13 23:00:29 2017
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	carmen schmitt_gleason 1.db
Dataset Pathname	STACK/pass3.4
Dataset Creation	Wed Sep 13 22:57:41 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	-33.000
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:	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	2.685	g/cc	934.50	4021.31	cps

Spine Angle = 75.61 Density/Spine Ratio = 0.543

	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

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Field	HORACEK
County	HODGEMAN
State	KANSAS