



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Cobalt Energy, LLC
 Well D6 Unit #1-34
 Field Pianalto South
 County Cheyenne
 State Kansas

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Location: API #: 15-023-21559-00-00
 2390 FSL 330 FWL
 SEC 34 TWP 4S RGE 37W
 Permanent Datum Ground Level Elevation 3336
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 DIL
 MEL
 Elevation
 K.B. 3341
 D.F.
 G.L. 3336

Date	11/13/2021						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	5060						
Depth Logger	5058						
Bottom Logged Interval	5029						
Top Logged Interval	3800						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	600						
Density	9.0						
Level	Full						
Max. Rec. Temp. F	127						
Operating Rig Time	3 Hours						
Equipment -- Location	P-24 HAYS						
Recorded By	C McLaughlin						
Witnessed By	Larry Nicholson						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	361	8.625	23	0	361
Two	7.875	361	TD				
Casing Record							

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest 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.

McDonald
 West to 32 Rd., South to H Rd
 1/2 South, East into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
 785-625-3858

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: C McLaughlin Operator: D Schmidt Operator: Operator:	Primary Witness: Larry Nicholson Secondary Witness: Secondary Witness: Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (233-M&W)	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 (934-226)	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					
CILD	8.00		DIL-M&W (1987)	18.50	3.50	220.00
CILM	4.70					
SP	0.20					

Dataset: cobalt_d6 unit_1-34.db: field/well/stkmel/pass4.3
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\cobalt_d6 unit_1-34.db
 Dataset field/well/stkmel/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	127	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	15	60	Off	5058

Variable Description

A : Cement Factor (a)
 BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 FLUIDDEN : Fluid Density
 M : Cement Exp (m)
 MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
 PERFS : Perforation Flag
 SNDERR : Deep Sonde Error Correction
 SNDERRM : Medium Sonde Error Correction
 SPSHIFT : S.P. Baseline Offset
 SRFTEMP : Surface Temperature
 SZCOR : CN Size Cor. ?
 TDEPTH : Total Depth



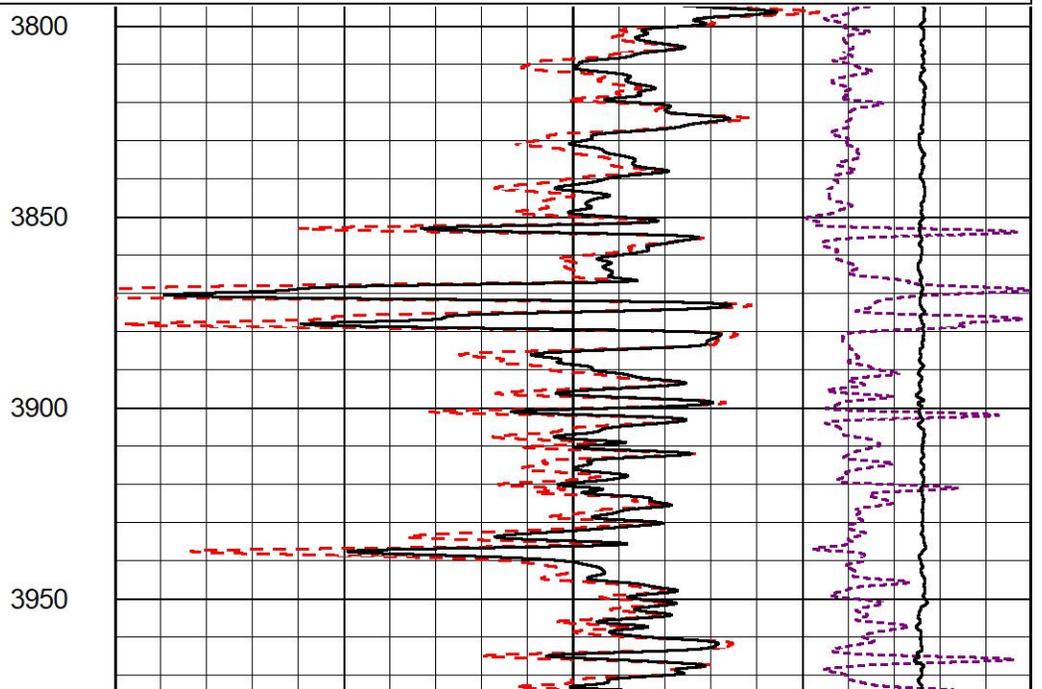
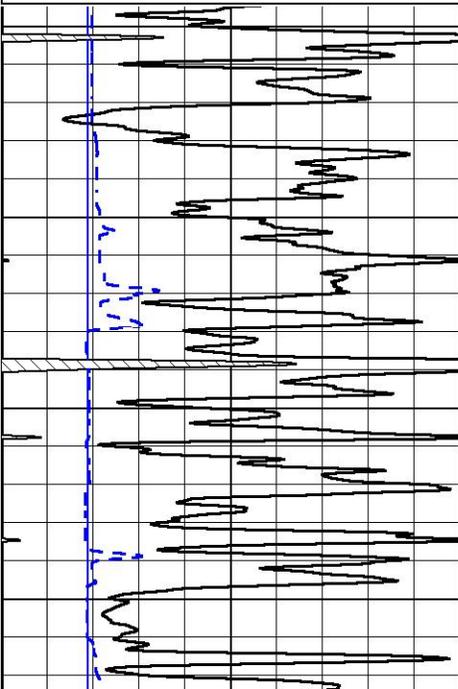
2" SCALE BULK DENSITY

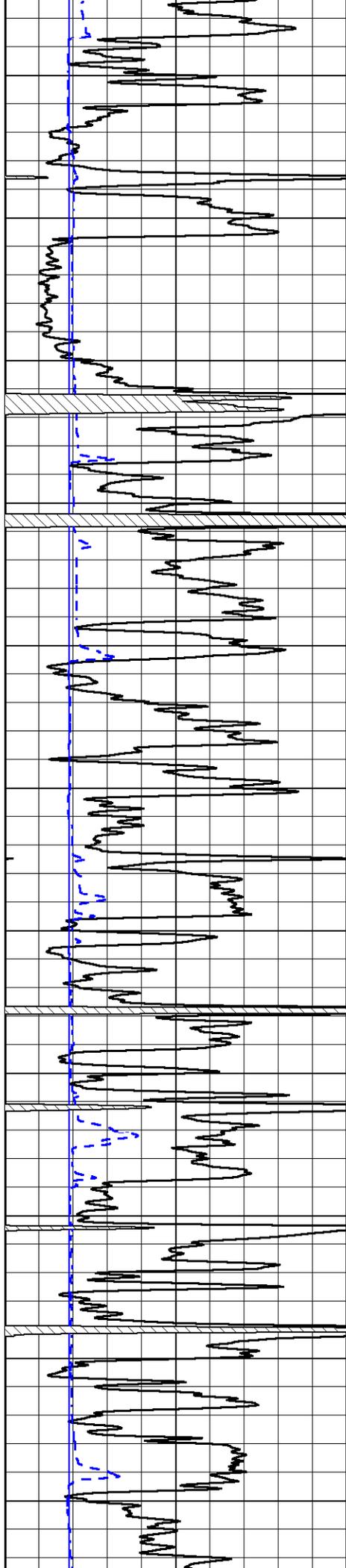
MAIN PASS

Database File cobalt_d6 unit_1-34.db
 Dataset Pathname stkmel/pass7.1
 Presentation Format _cdl
 Dataset Creation Sat Nov 13 18:33:24 2021
 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
-0.25	Correction (g/cc)	0.25





4000

4050

4100

4150

4200

4250

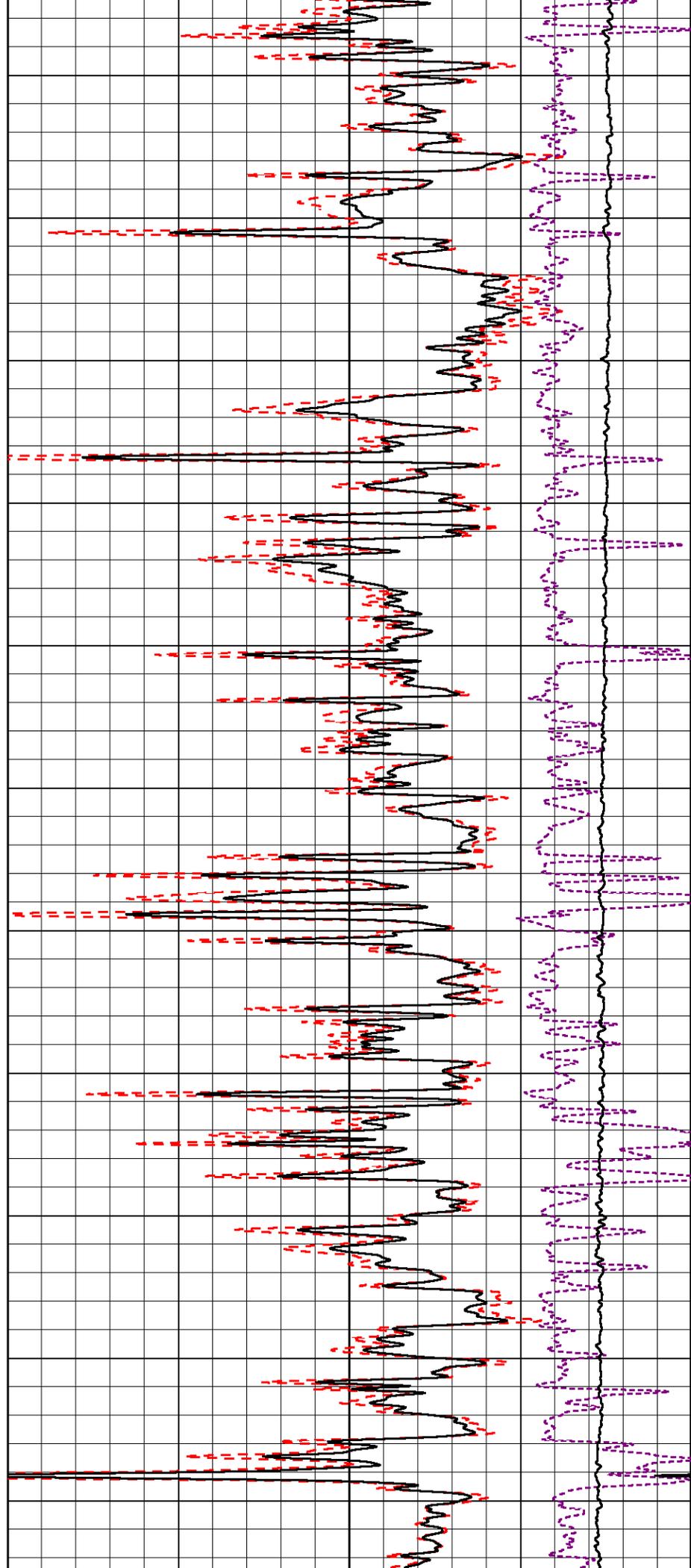
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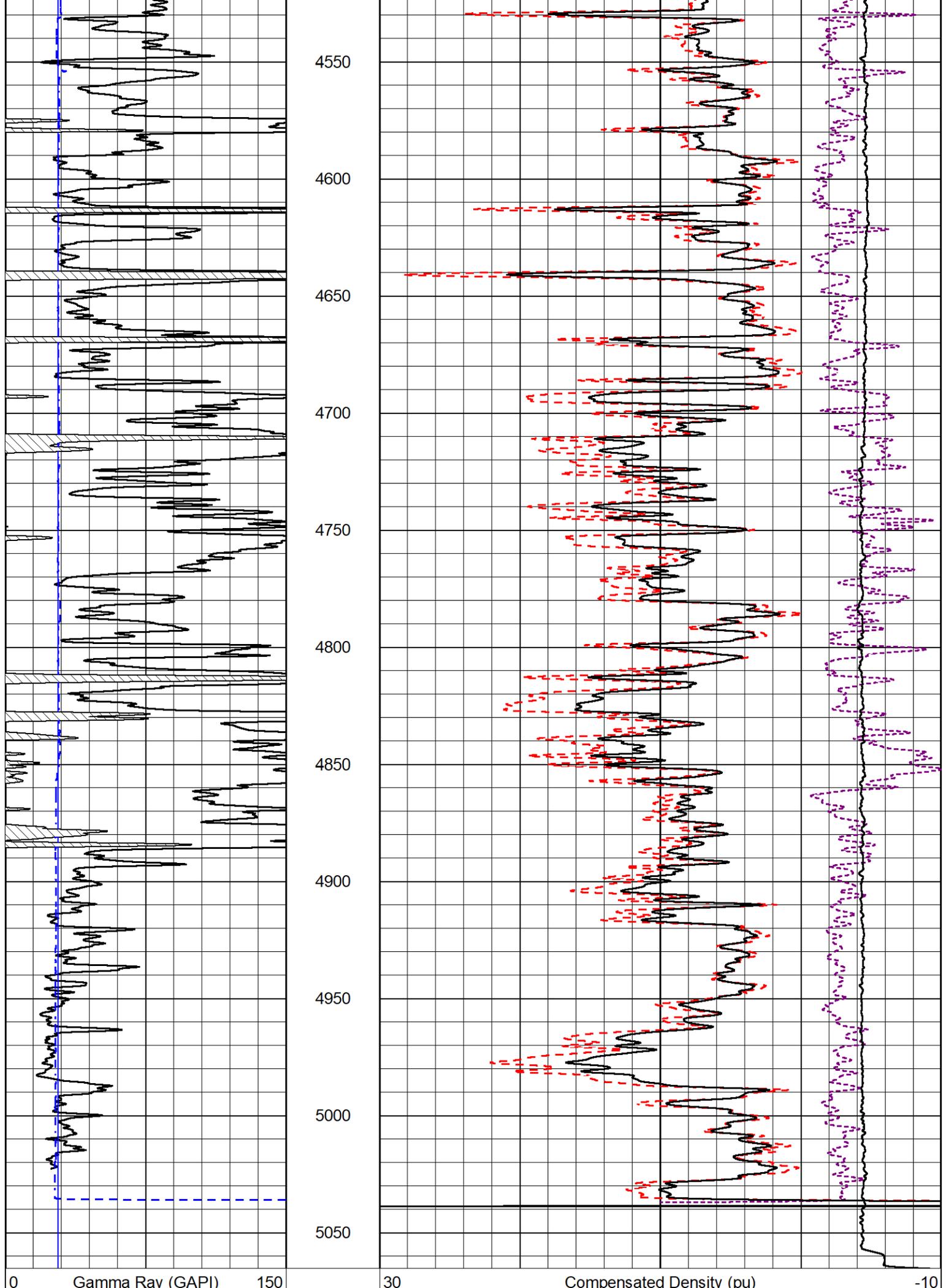
4350

4400

4450

4500





6	Caliper (in)	16
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2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25



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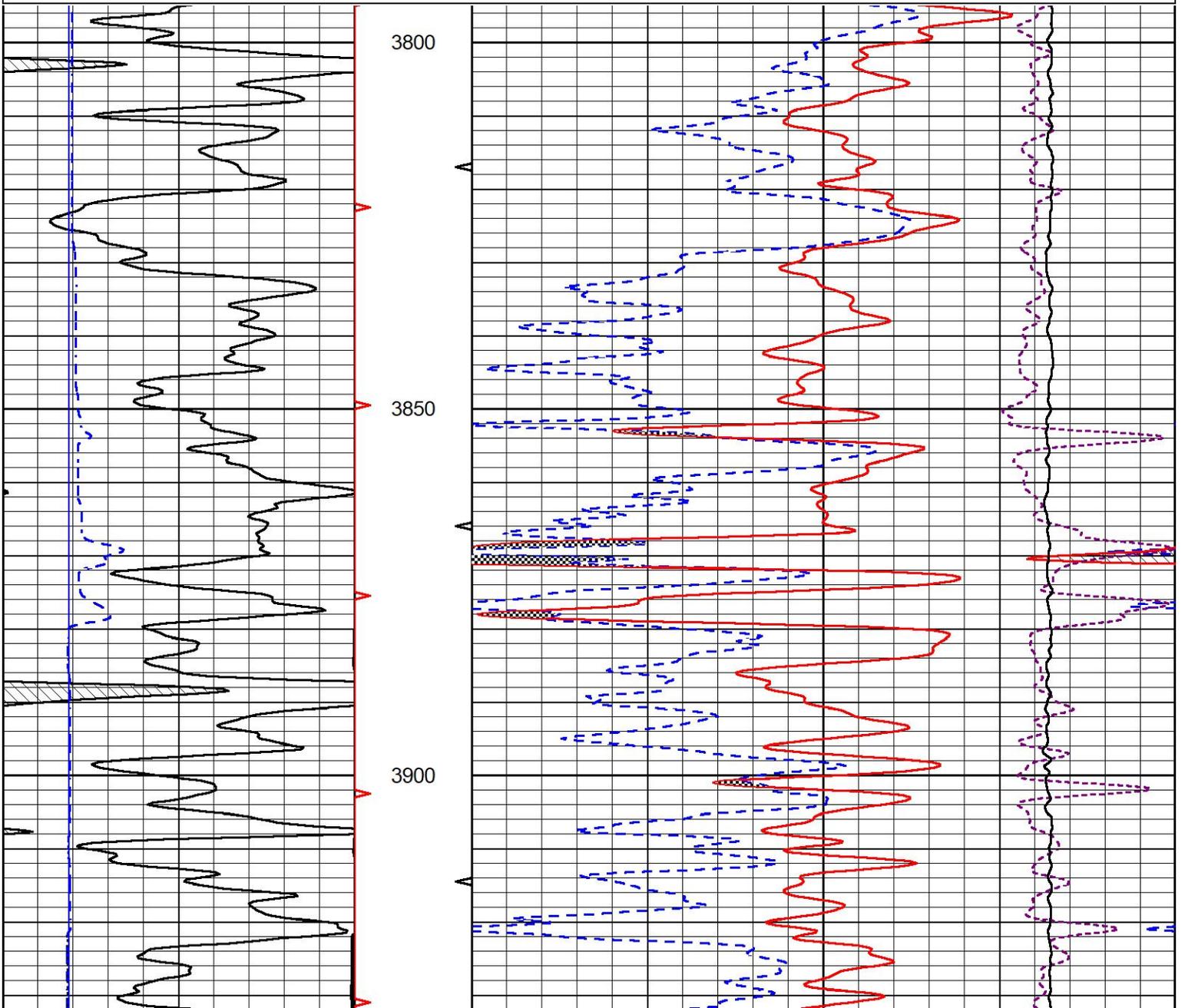
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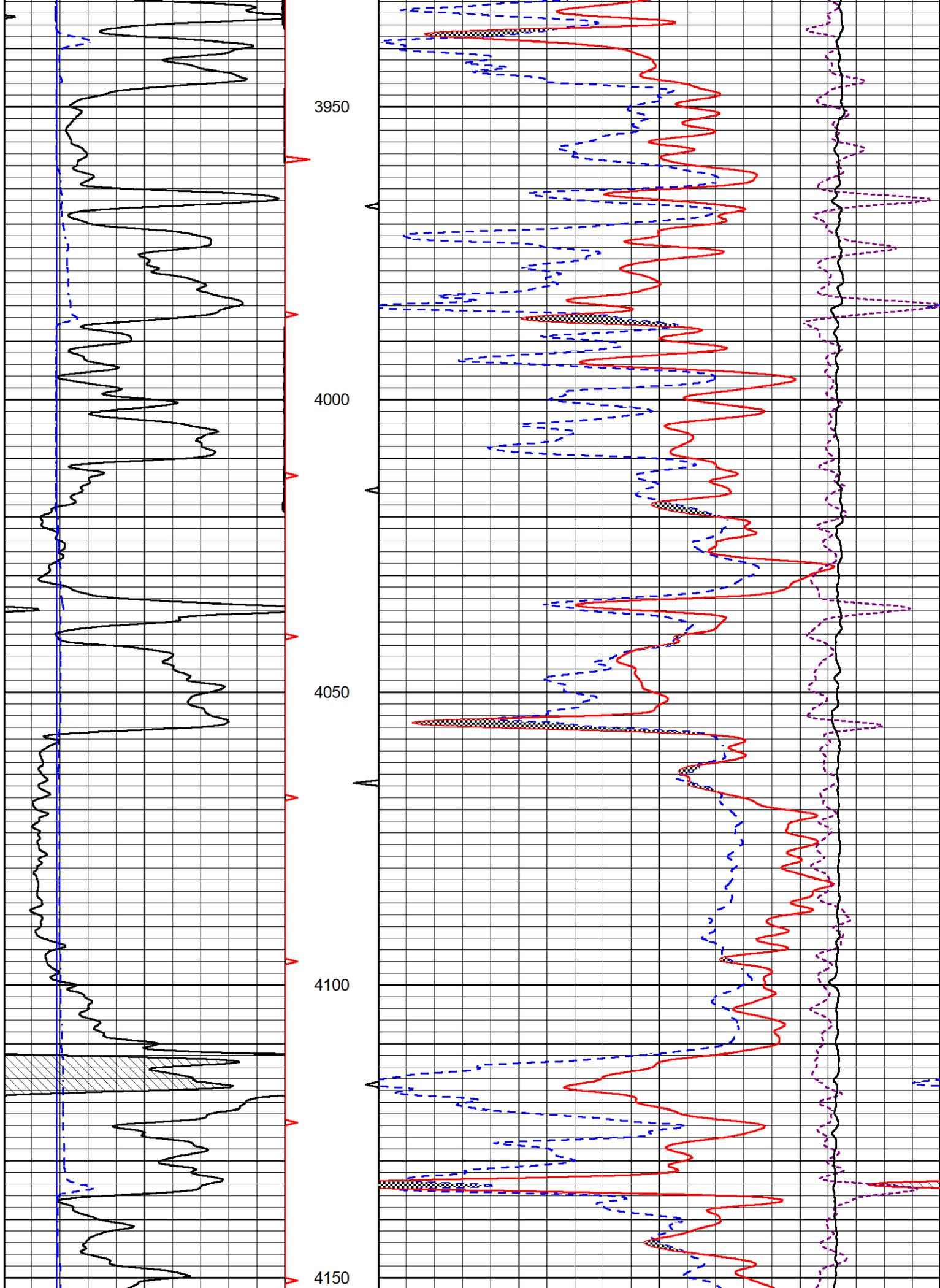
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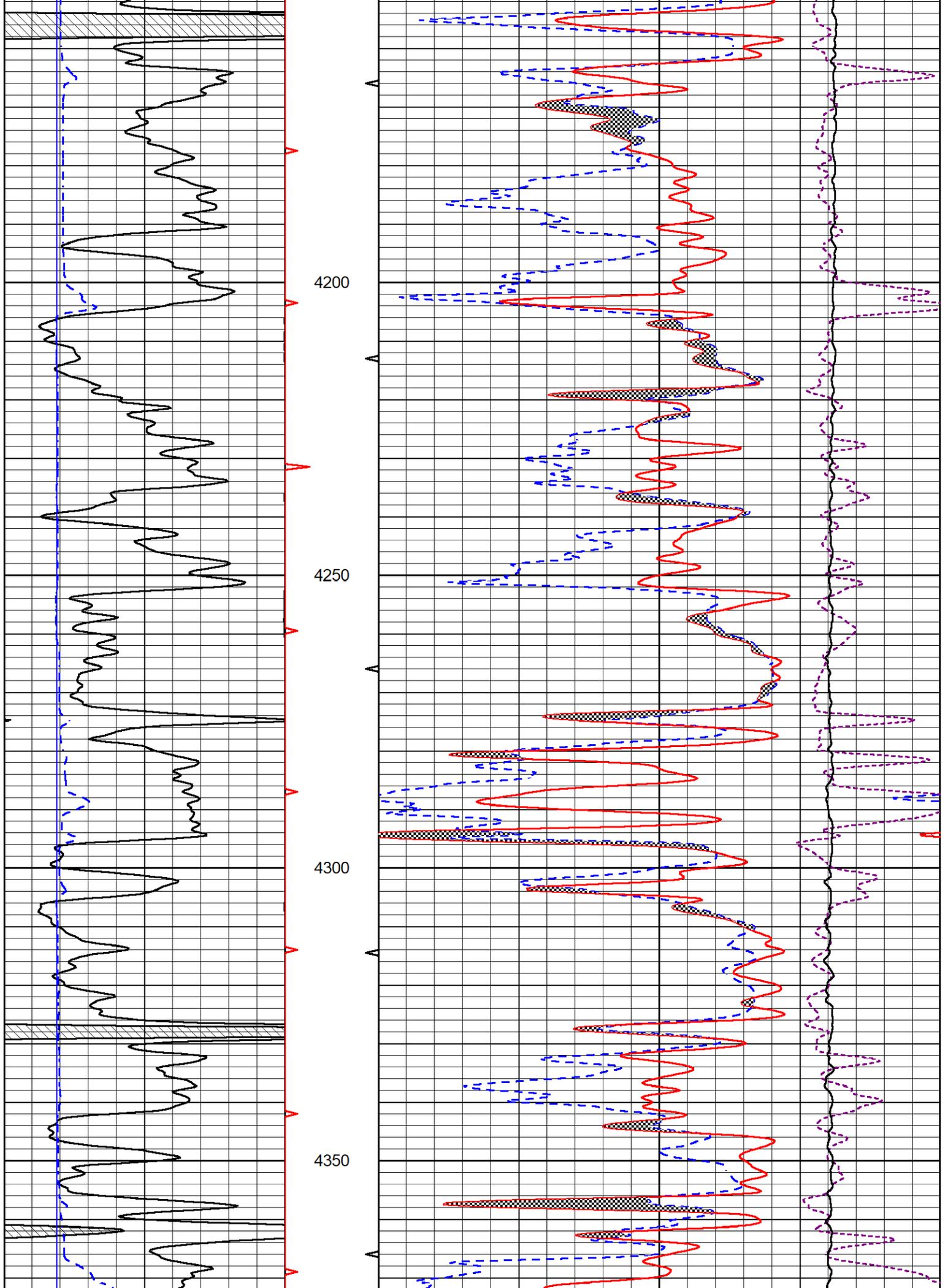
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 Charted by Depth in Feet scaled 1:240

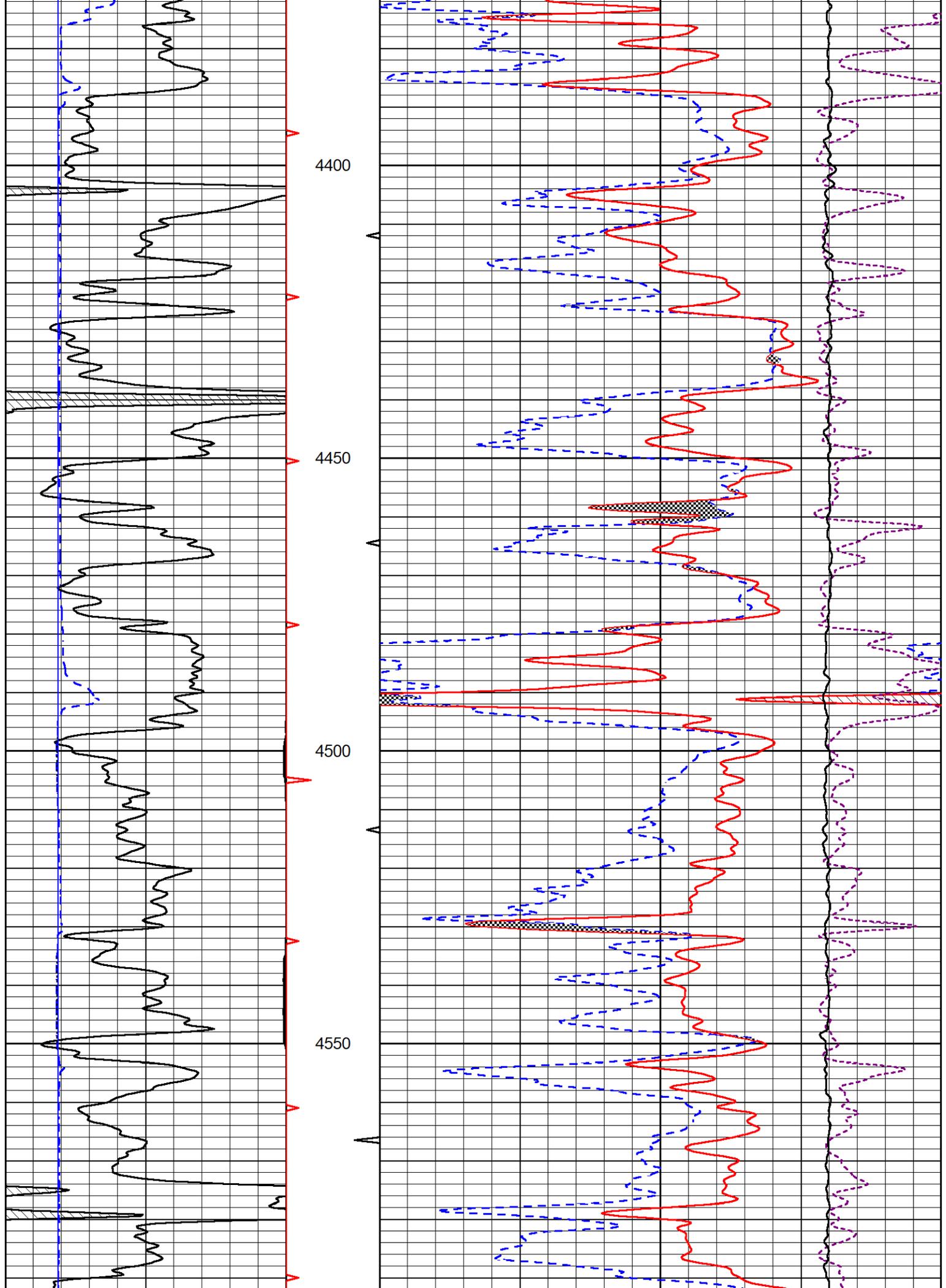
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

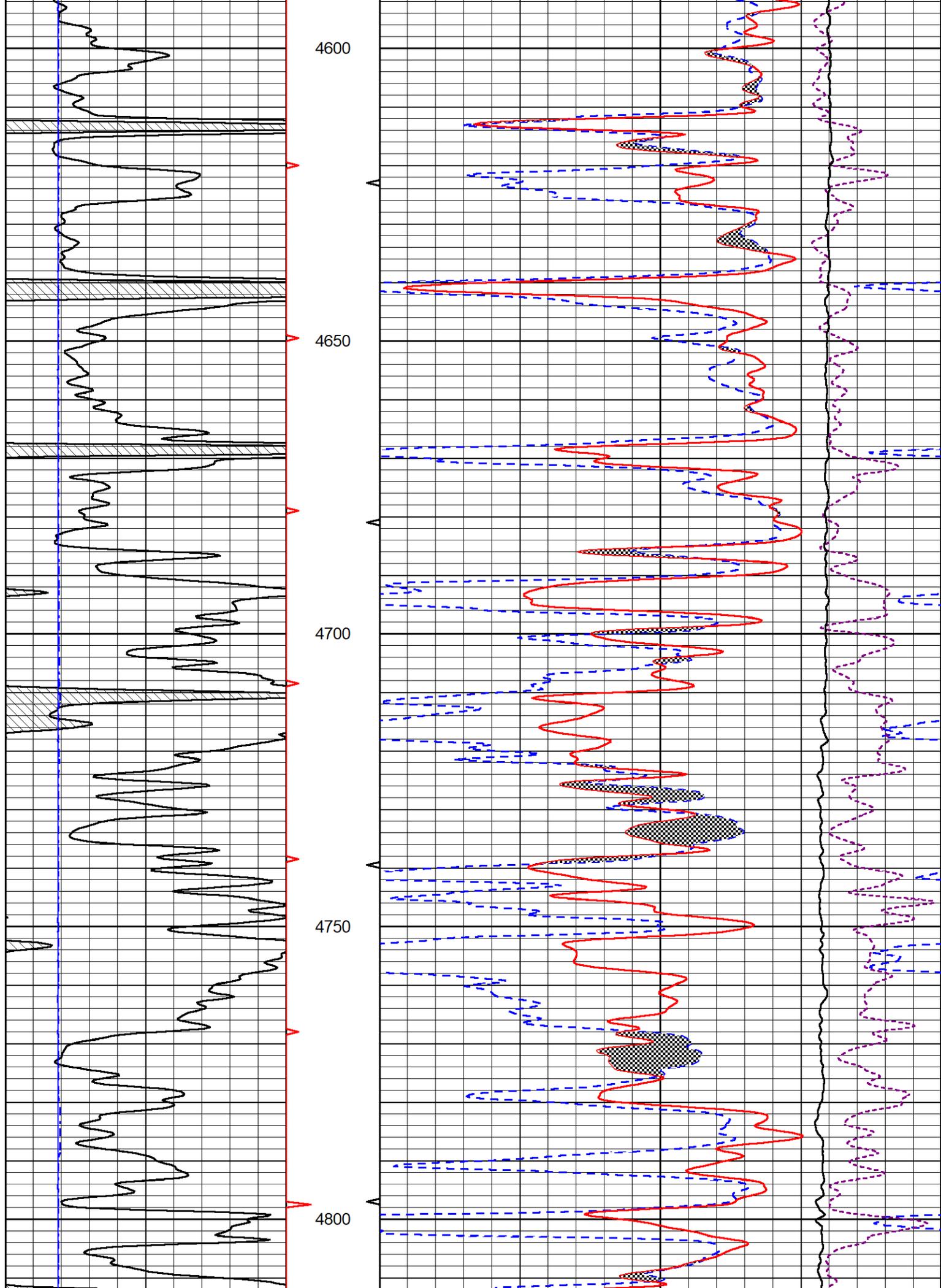
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

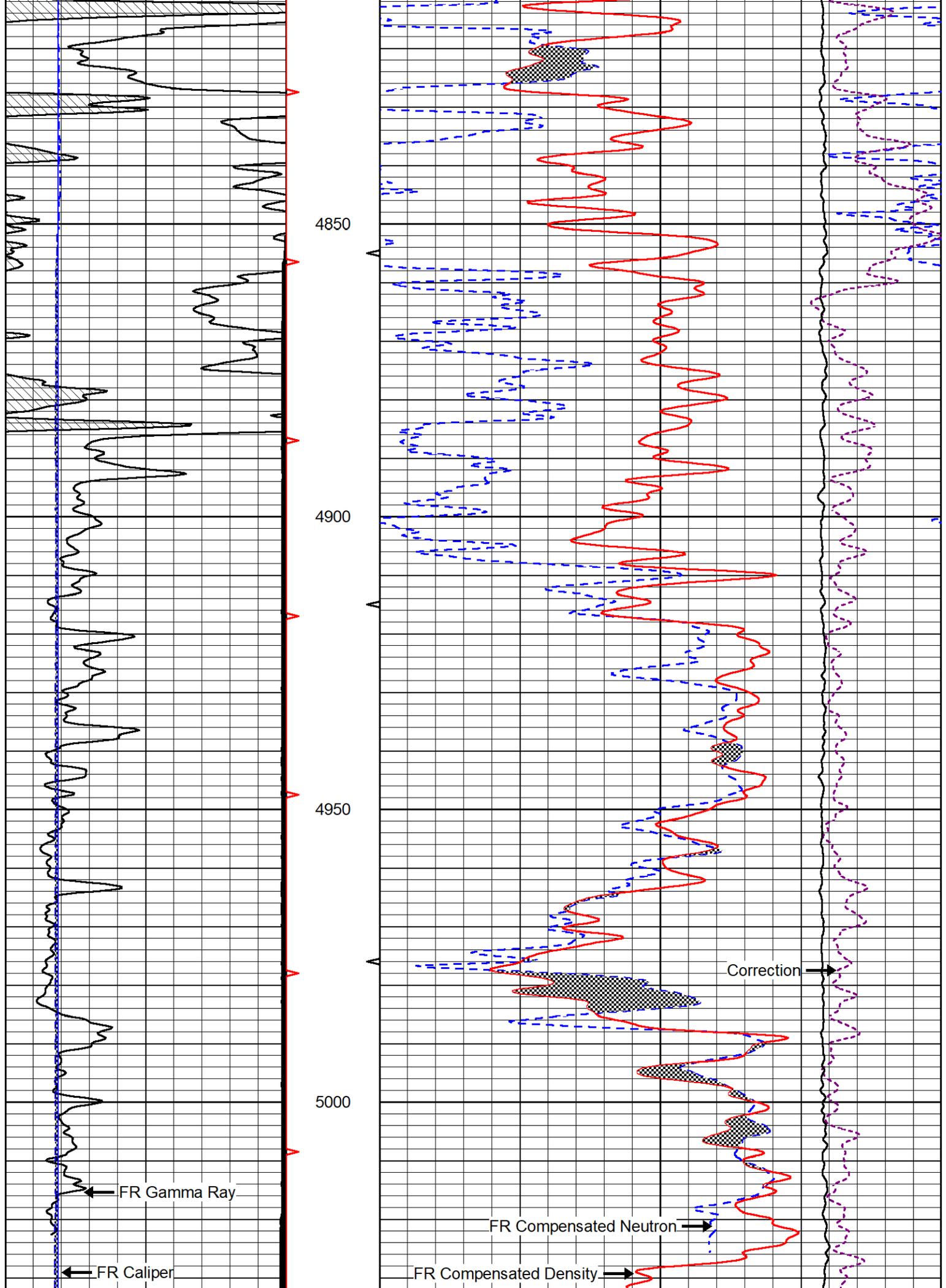


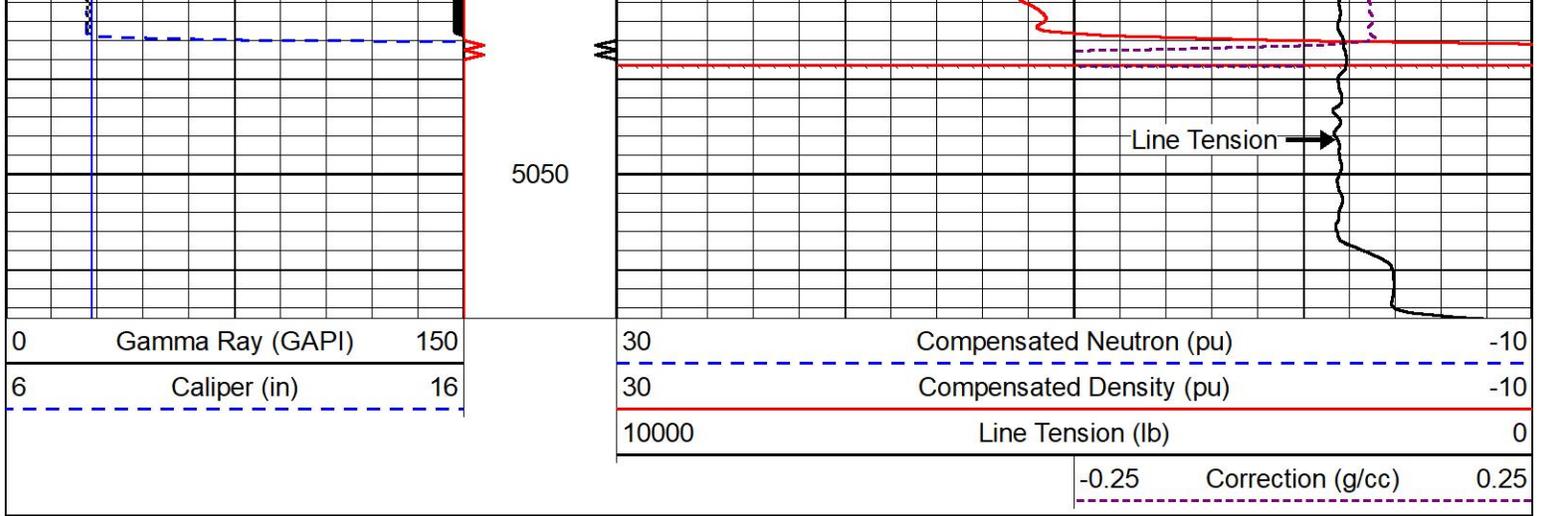










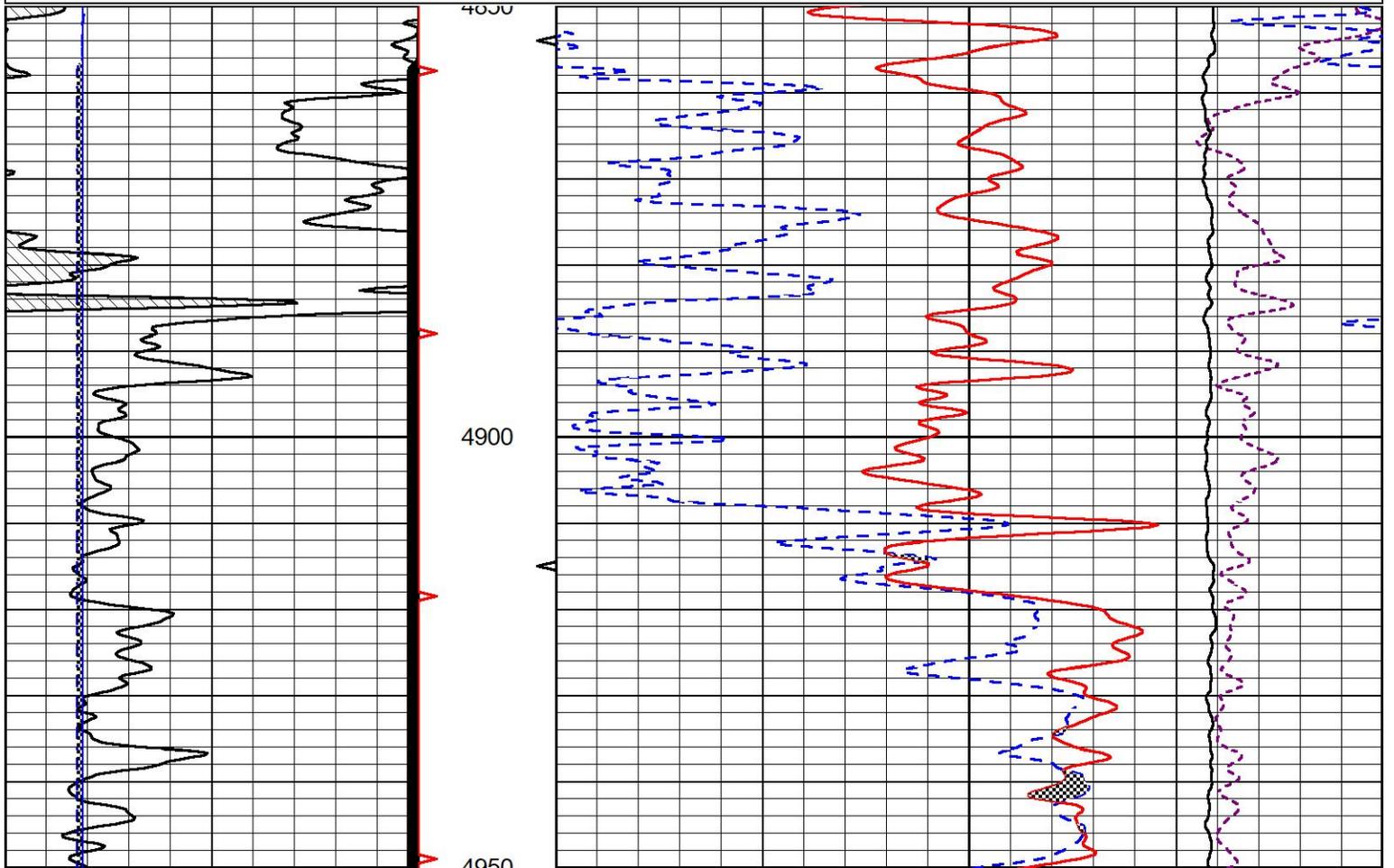
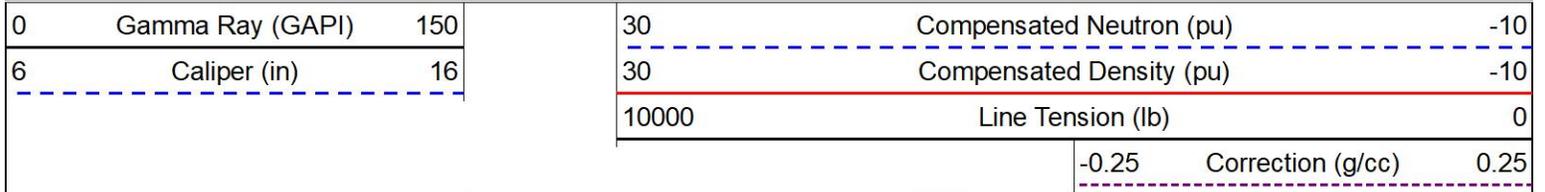


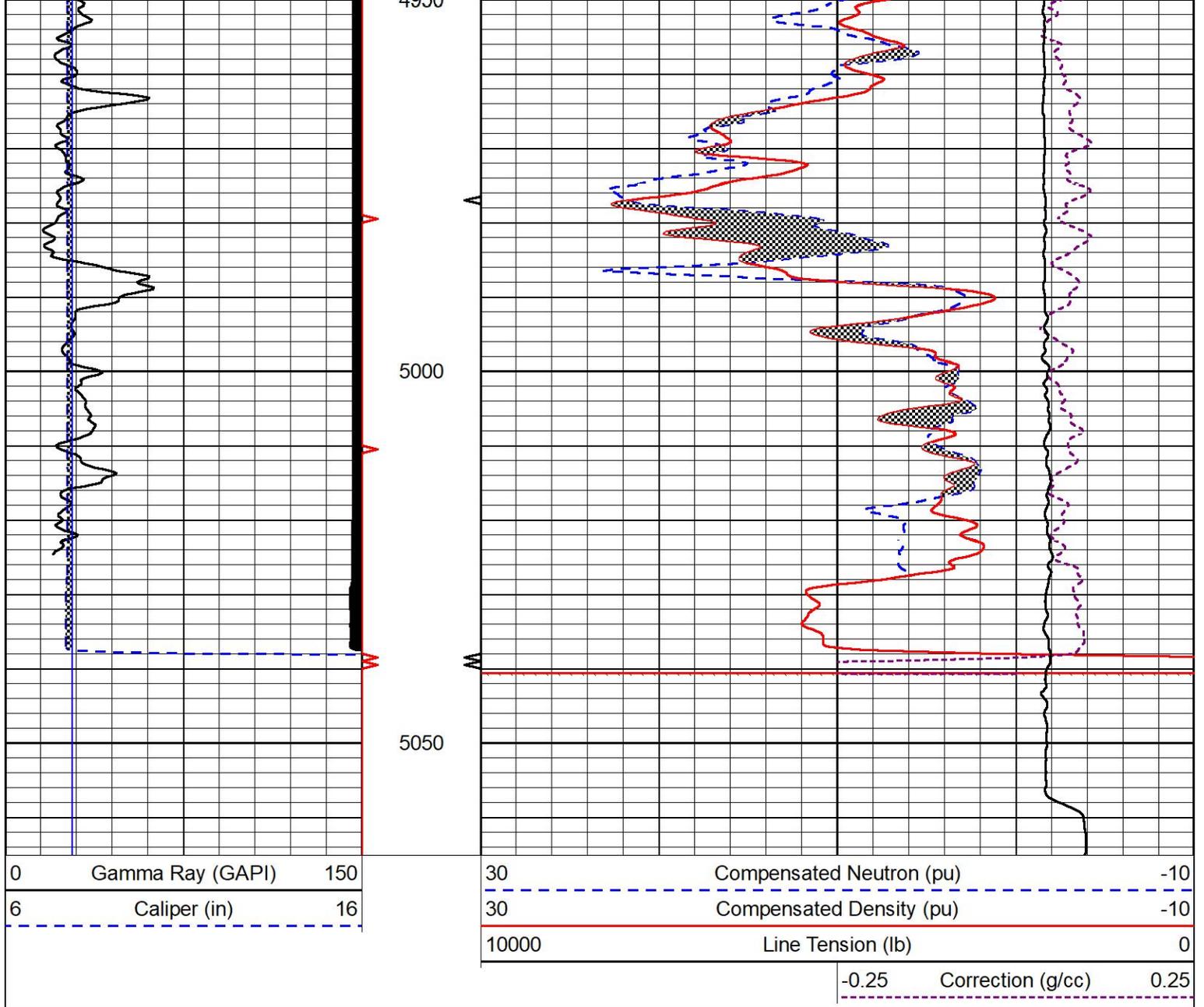
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File cobalt_d6 unit_1-34.db
 Dataset Pathname stkmel/pass3.1
 Presentation Format _CNDLS~1
 Dataset Creation Sat Nov 13 18:30:50 2021
 Charted by Depth in Feet scaled 1:240





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