



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Carmen Schmitt, Inc.
 Well Four Boys #2-28
 Field PIANALTO
 County Cheyenne State Kansas

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Location: API #: 15-023-21569-00-00
 1005 FSL & 2047 FWL
 SEC 28 TWP 4S RGE 37W
 Permanent Datum Ground Level Elevation 3407
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 DIL/MEL
 K.B. 3412
 D.F.
 G.L. 3407

Date	4/28/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	5040						
Depth Logger	5038						
Bottom Logged Interval	5009						
Top Logged Interval	3900						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	2,000						
Density	9.4						
Level	Full						
Max. Rec. Temp. F	126						
Operating Rig Time	3 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	D Schmidt						
Witnessed By	Brad Rine						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	Casing Record	
One	12.25	0	390	8.625	23	From	To
Two	7.875	390	TD			0	390

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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.

Bird City,
 East to 31 Rd, South to H Rd, 1/2 East,
 North 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: D Schmidt	Operator:	Primary Witness: Brad Rine	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-05)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (501 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: carmen schmitt_four boys 2028.db: field/well/stkml/pass3.14
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\carmen schmitt_four boys 2028.db
 Dataset field/well/stkml/pass3.14/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	126	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	112	60	Off	5038

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



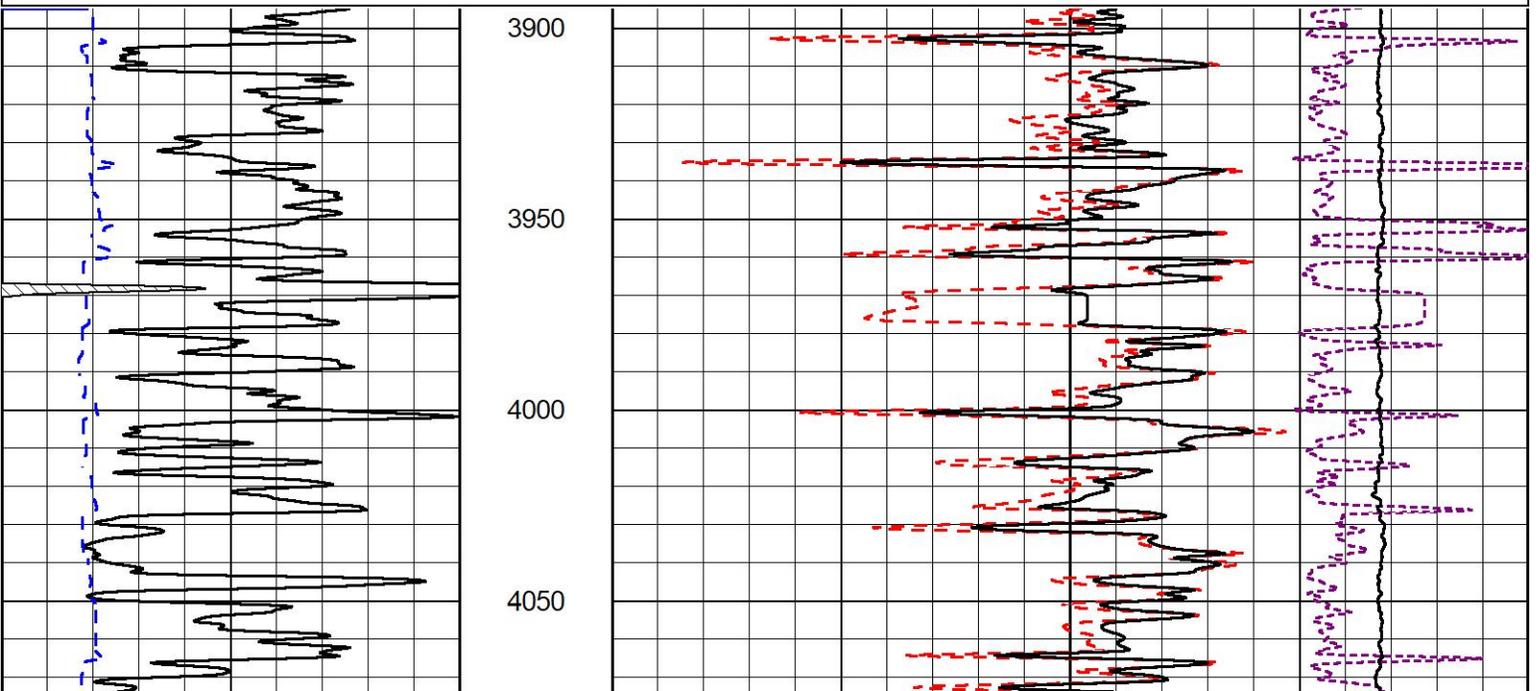
2" SCALE BULK DENSITY

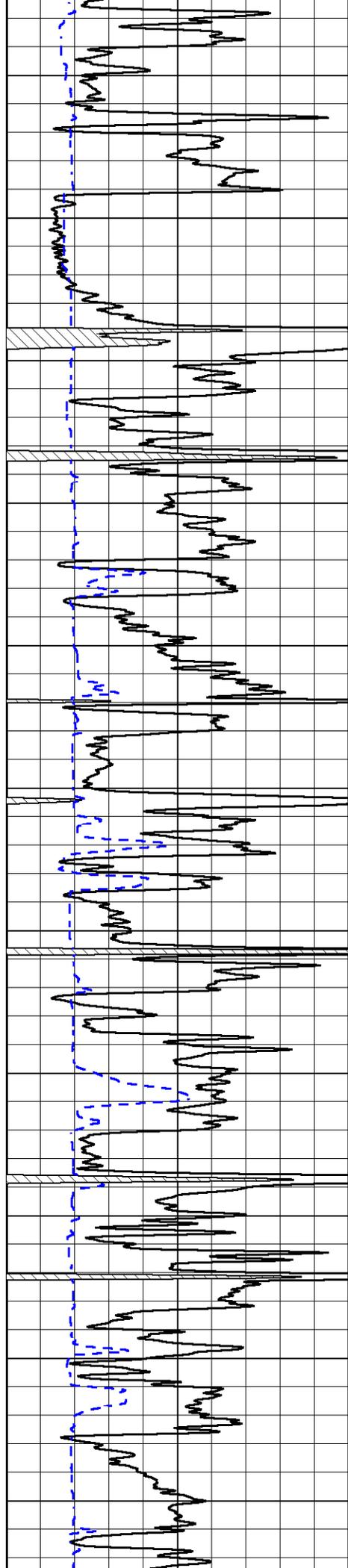
MAIN PASS

Database File carmen schmitt_four boys 2028.db
 Dataset Pathname stkml/pass3.2
 Presentation Format _cdl
 Dataset Creation Thu Apr 28 11:46:54 2022
 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
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25





4100

4150

4200

4250

4300

4350

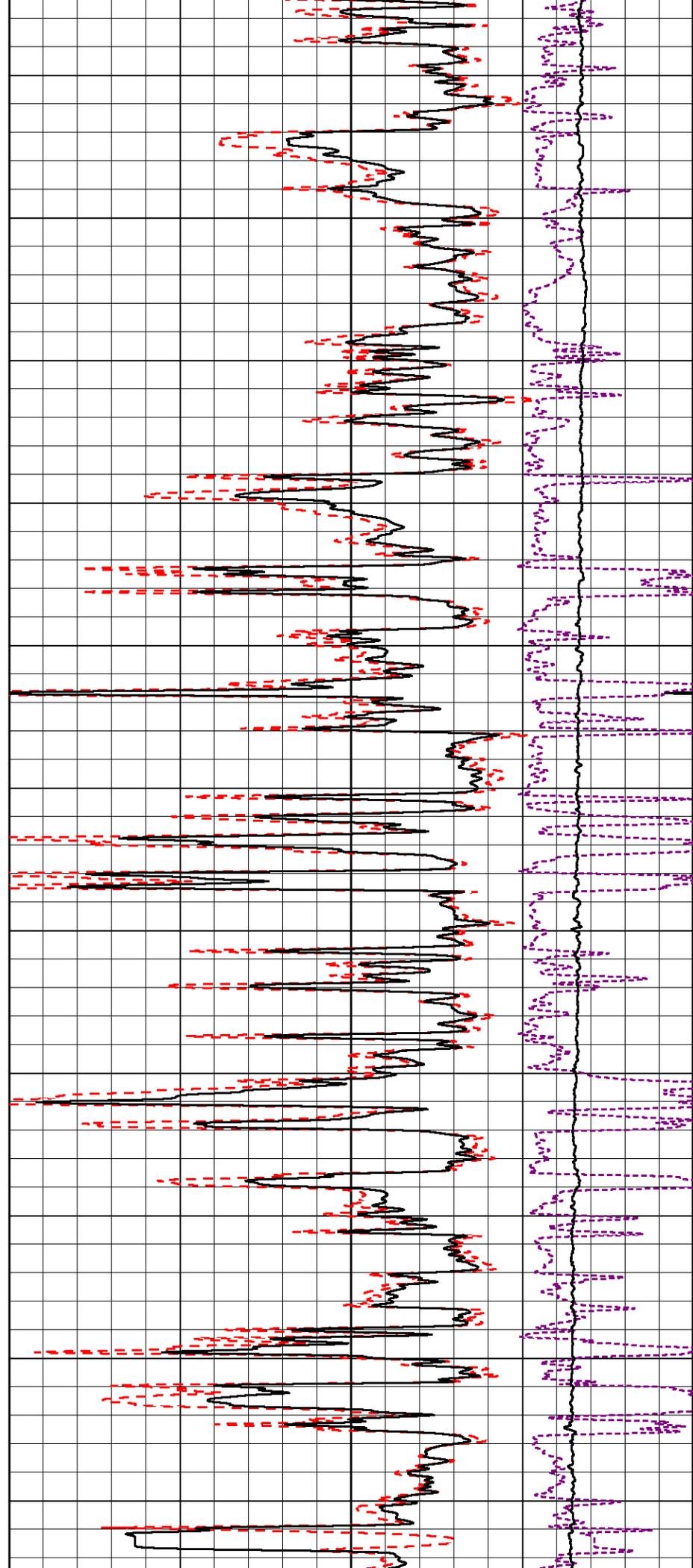
4400

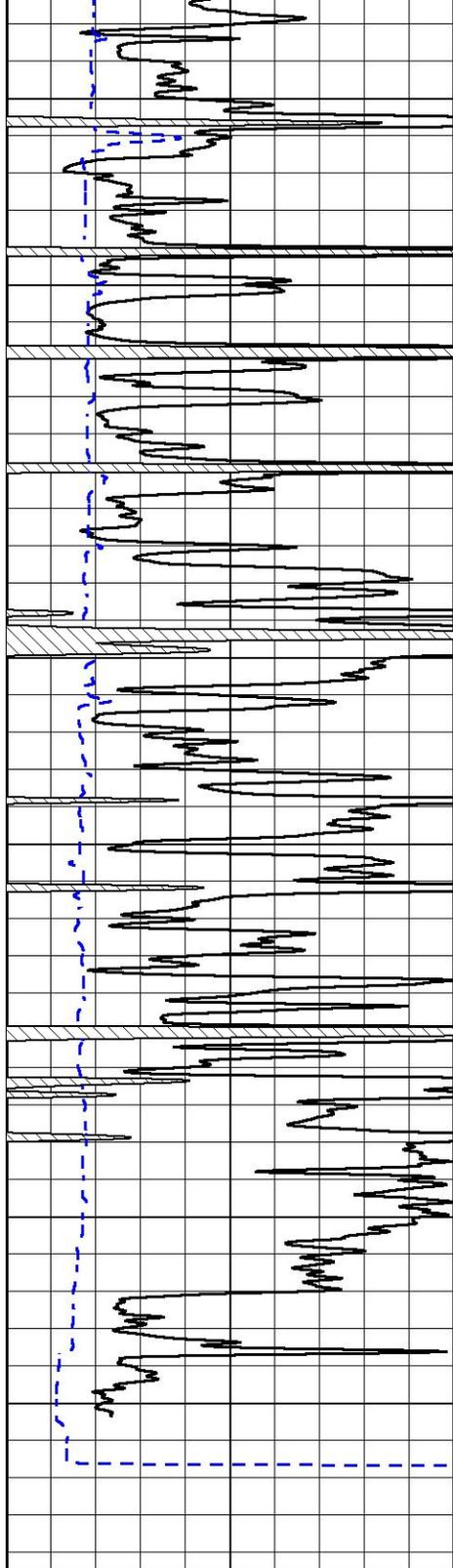
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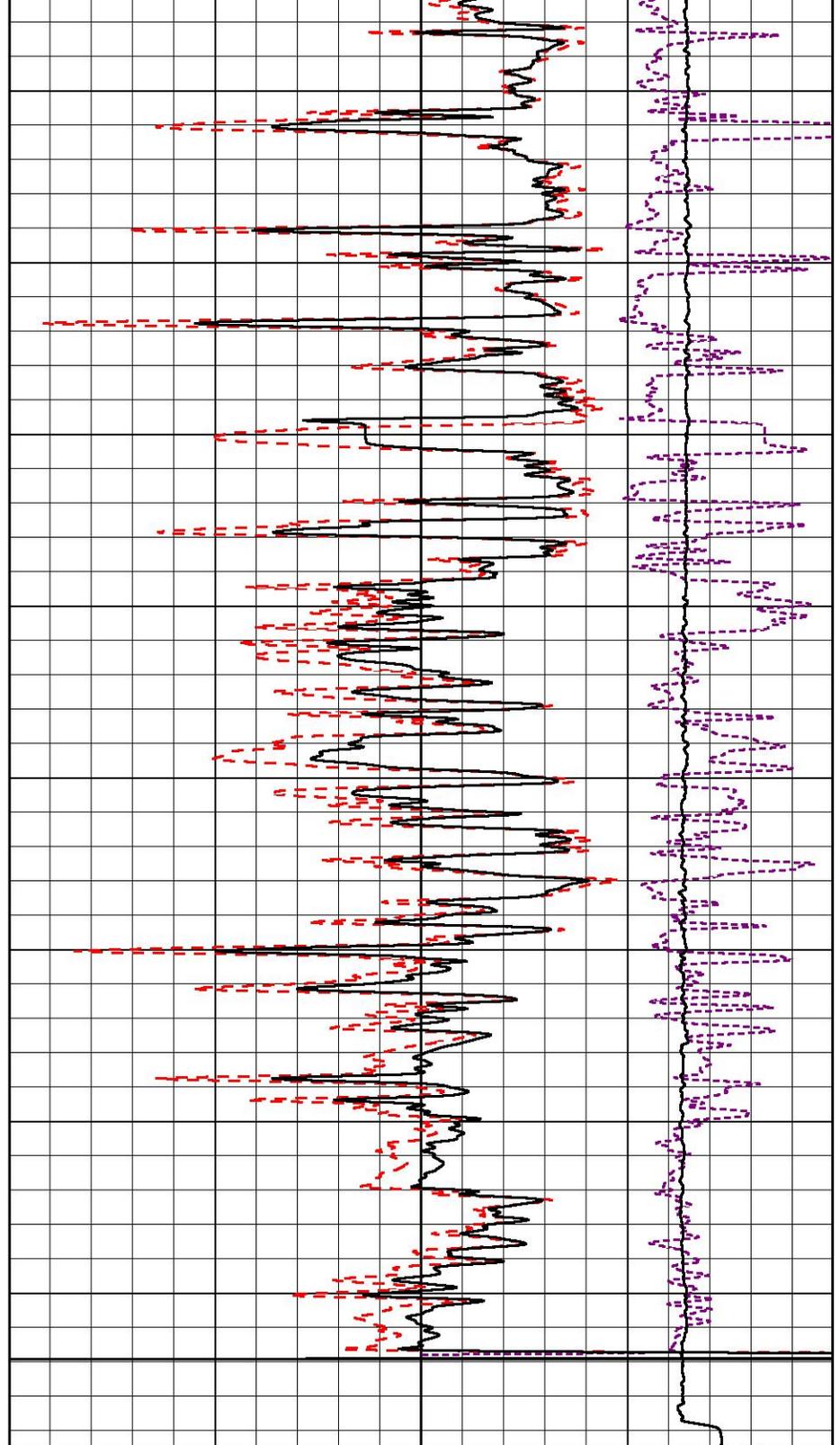
4550

4600





4650
4700
4750
4800
4850
4900
4950
5000



30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

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



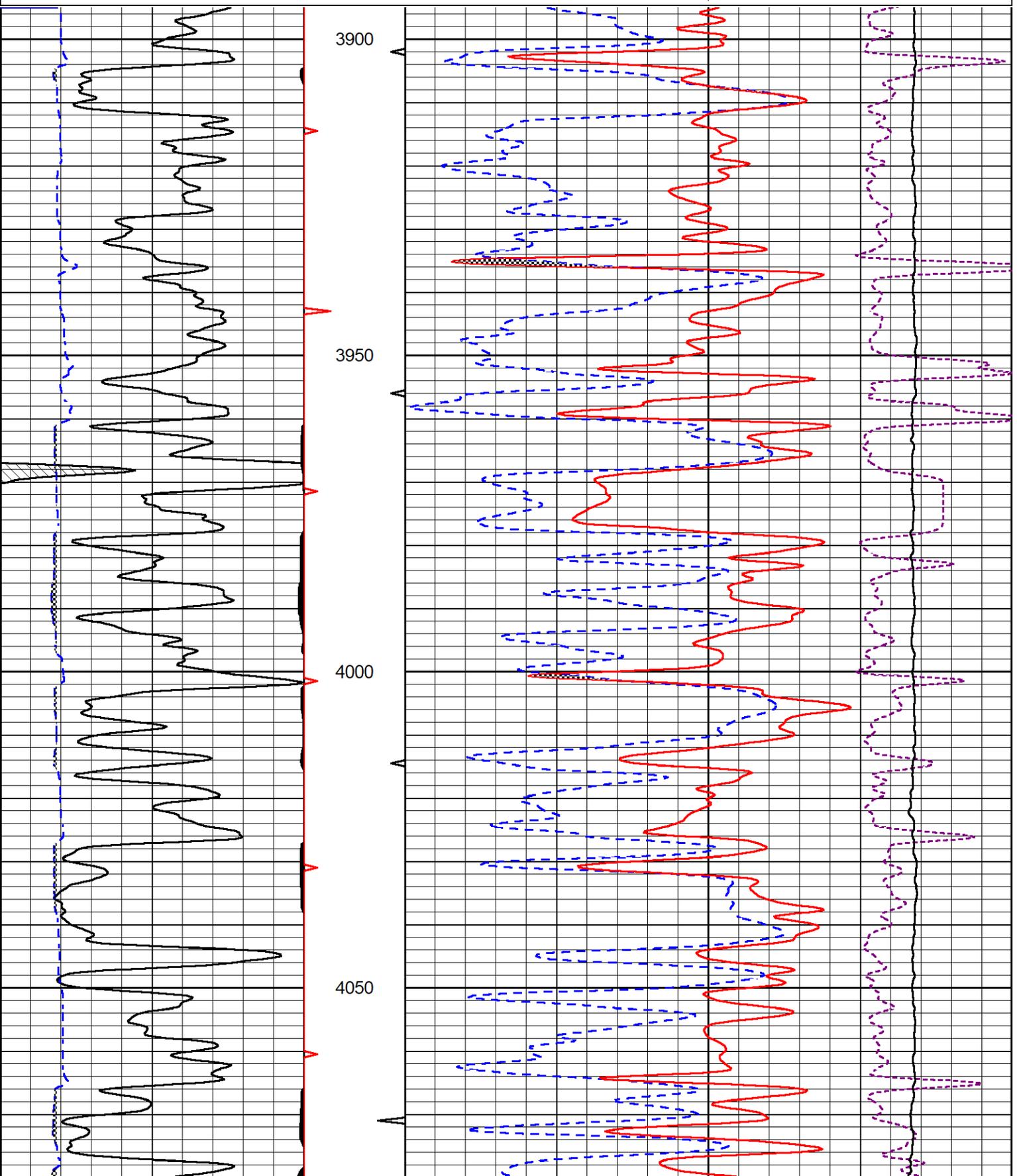
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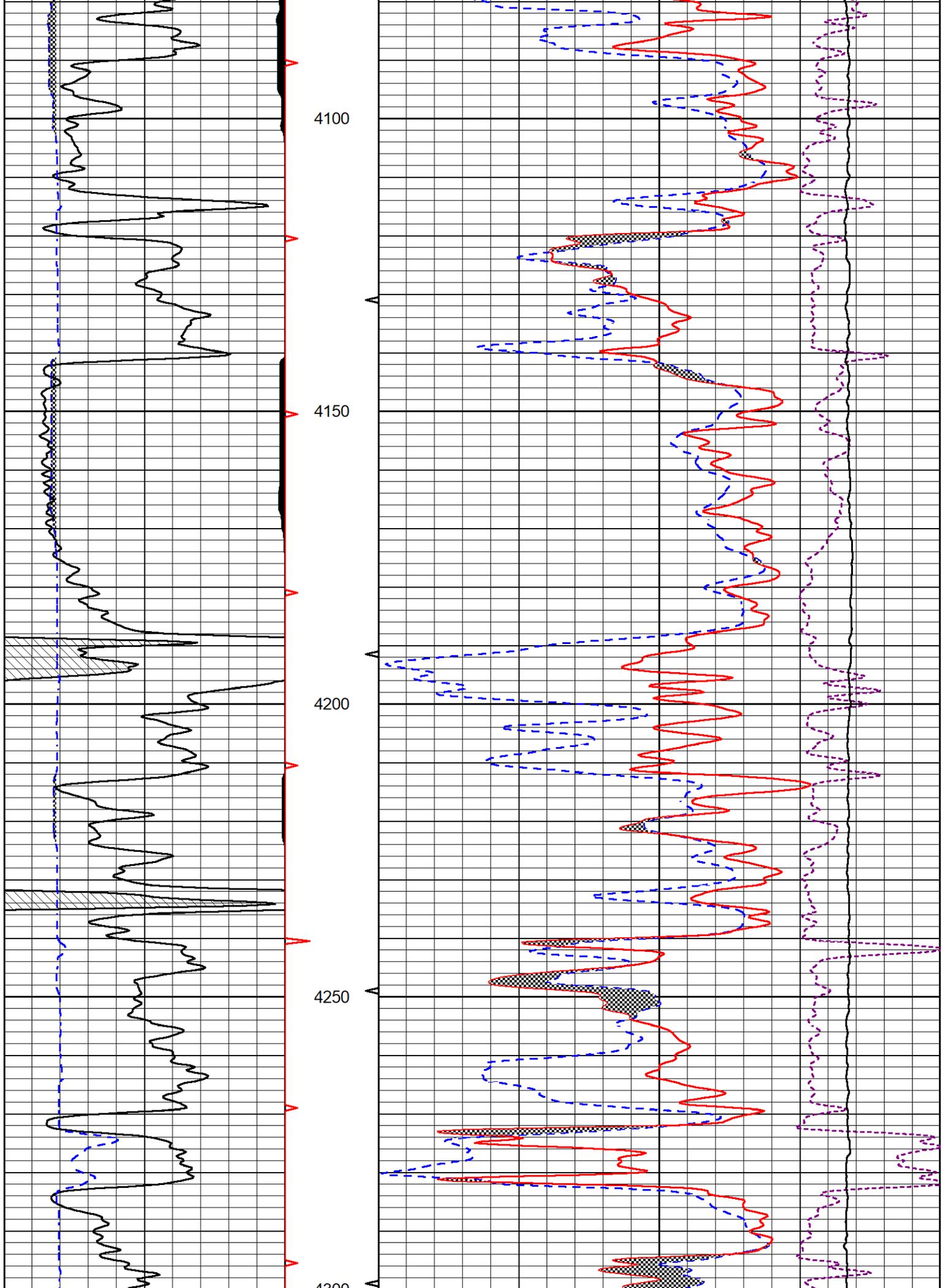
MAIN PASS

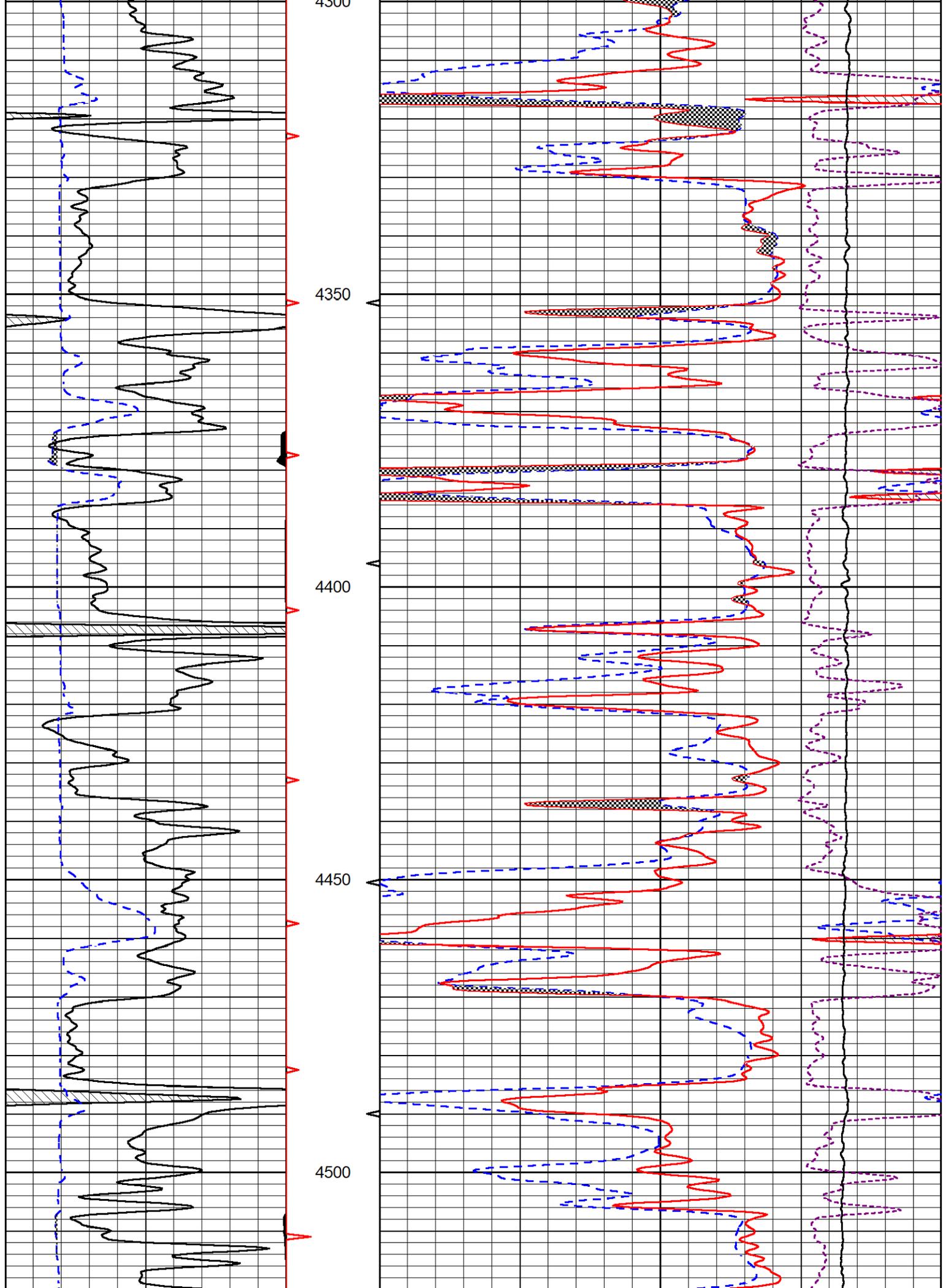
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 Presentation Format: _CNDLS~1
 Dataset Creation: Thu Apr 28 11:46:47 2022
 Charted by: Depth in Feet scaled 1:240

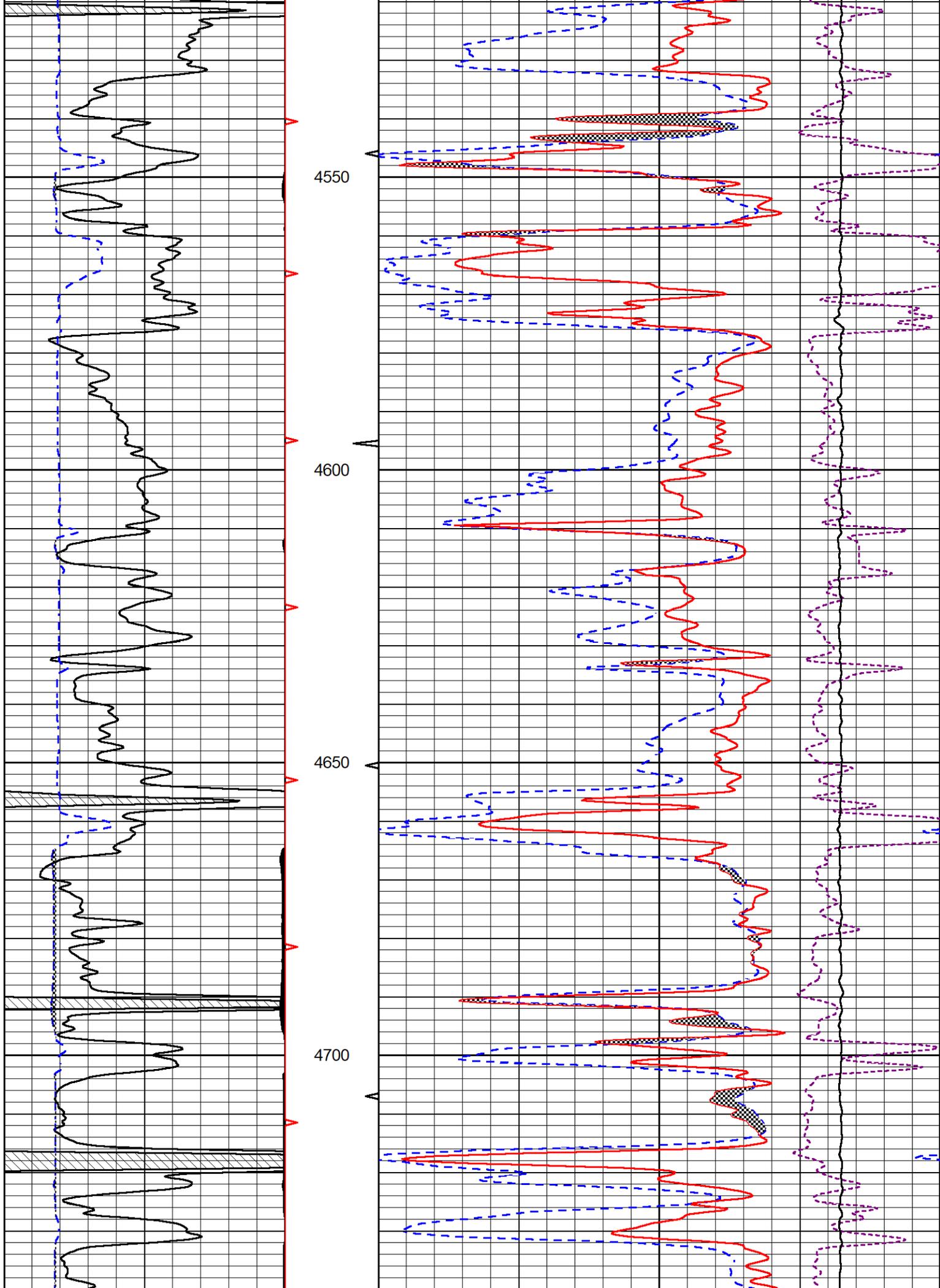
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

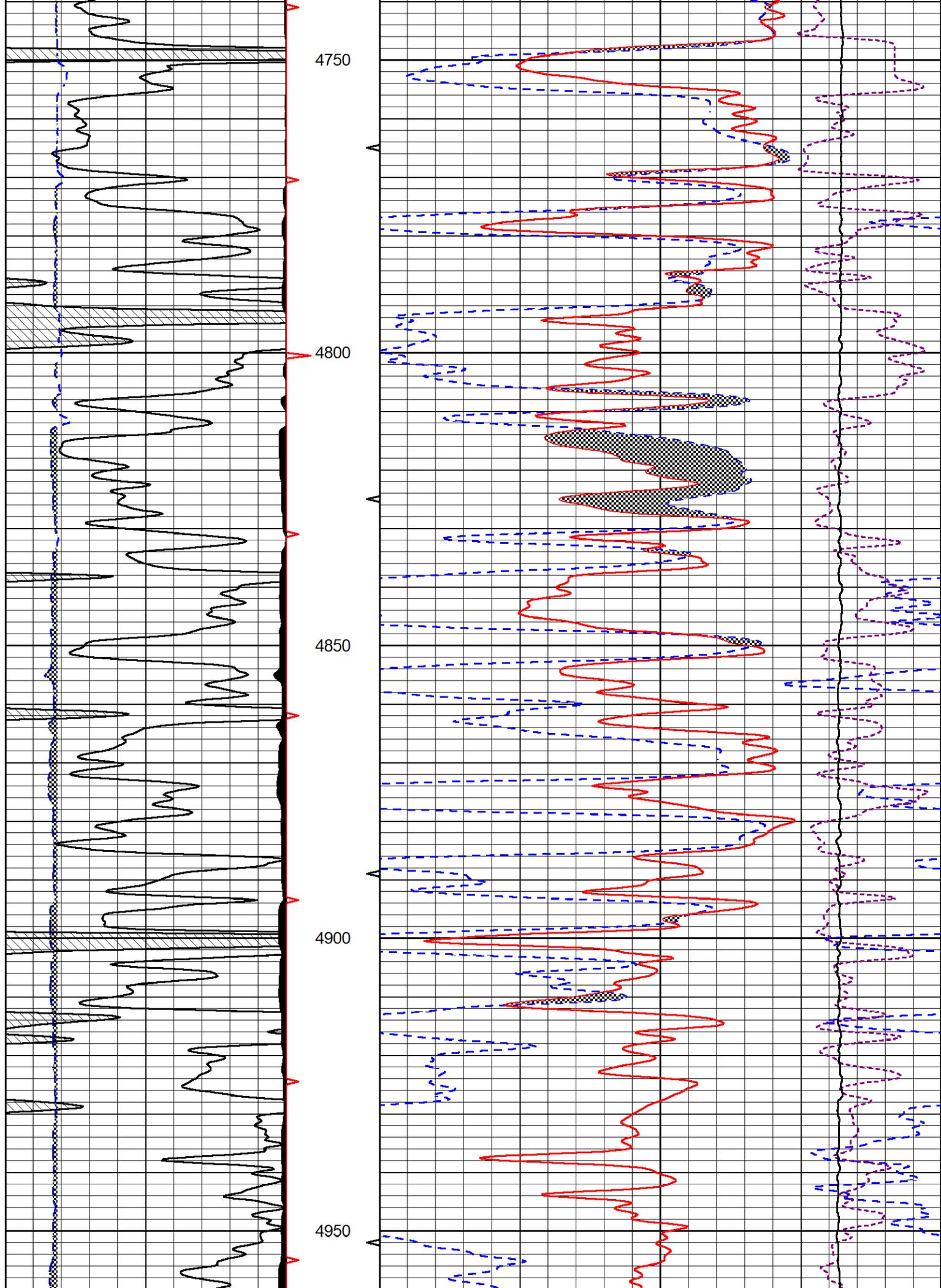
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

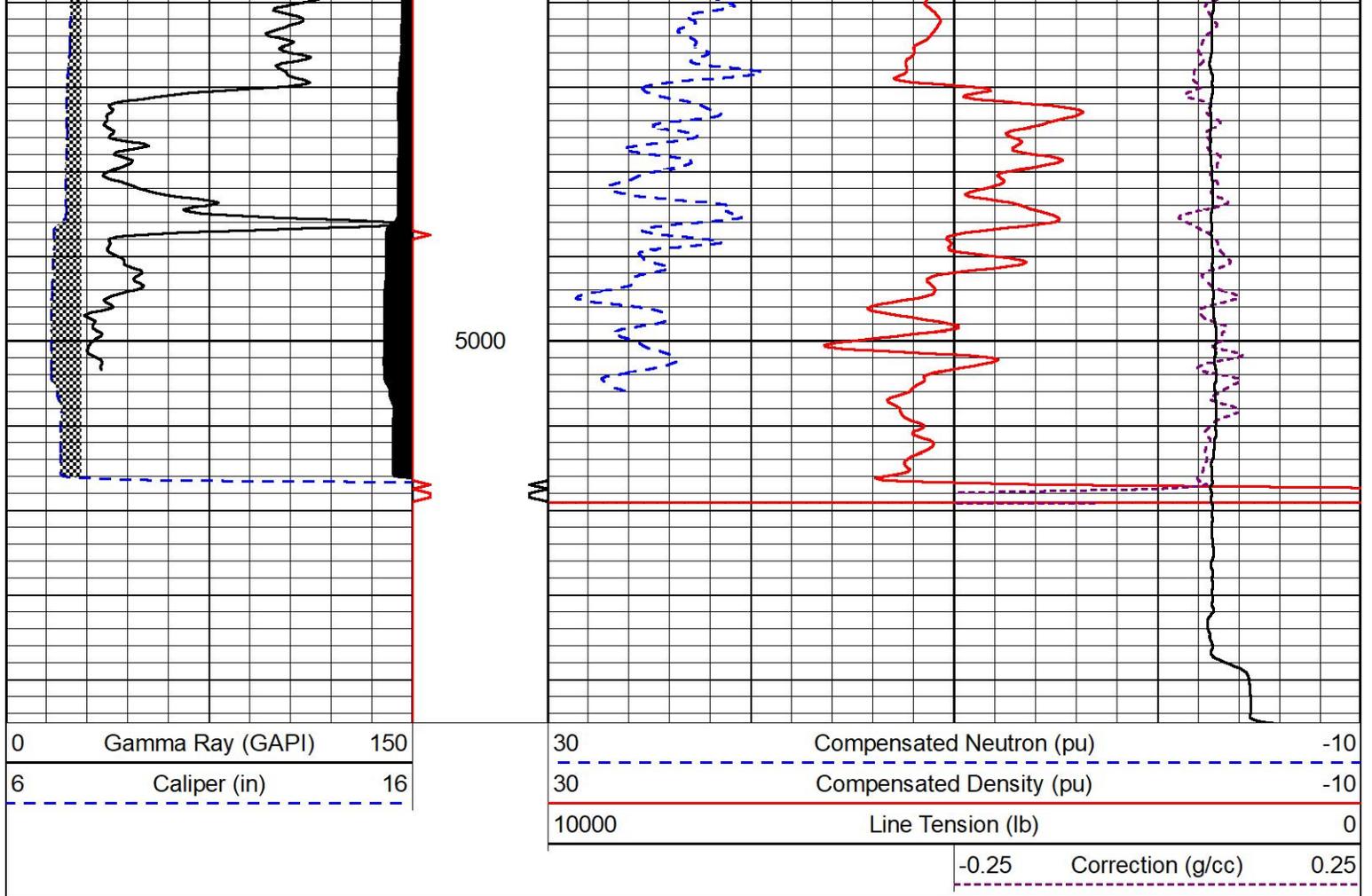










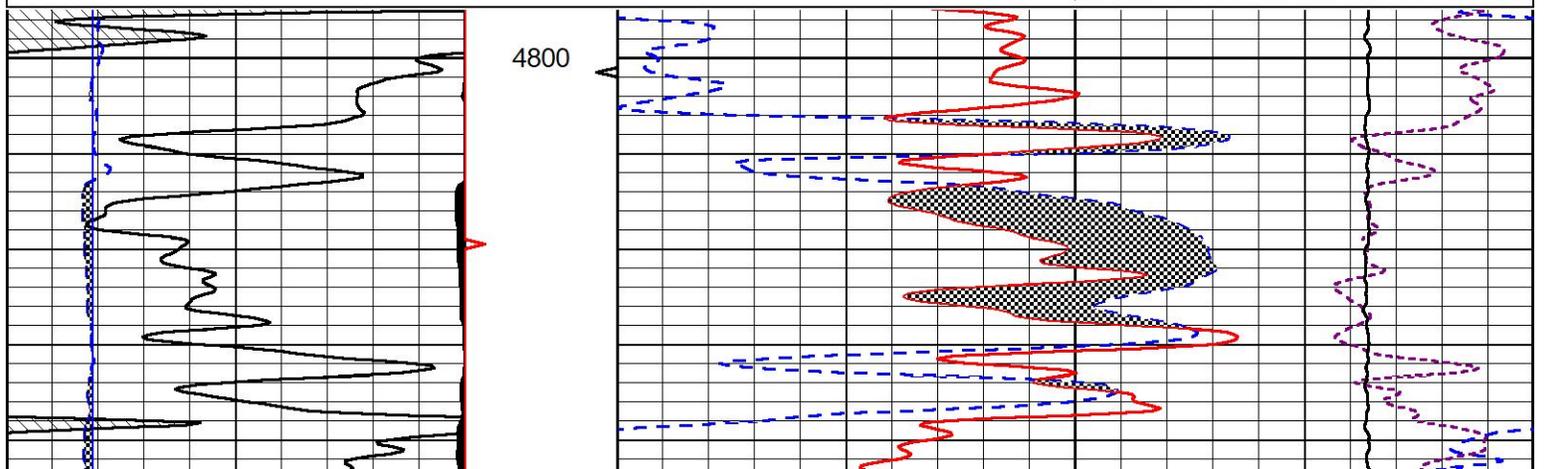
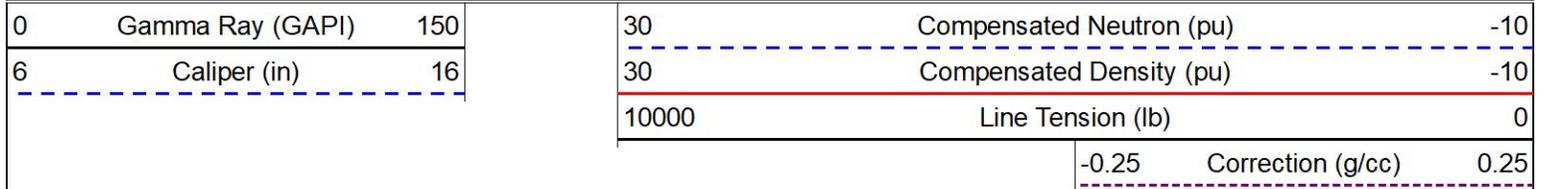


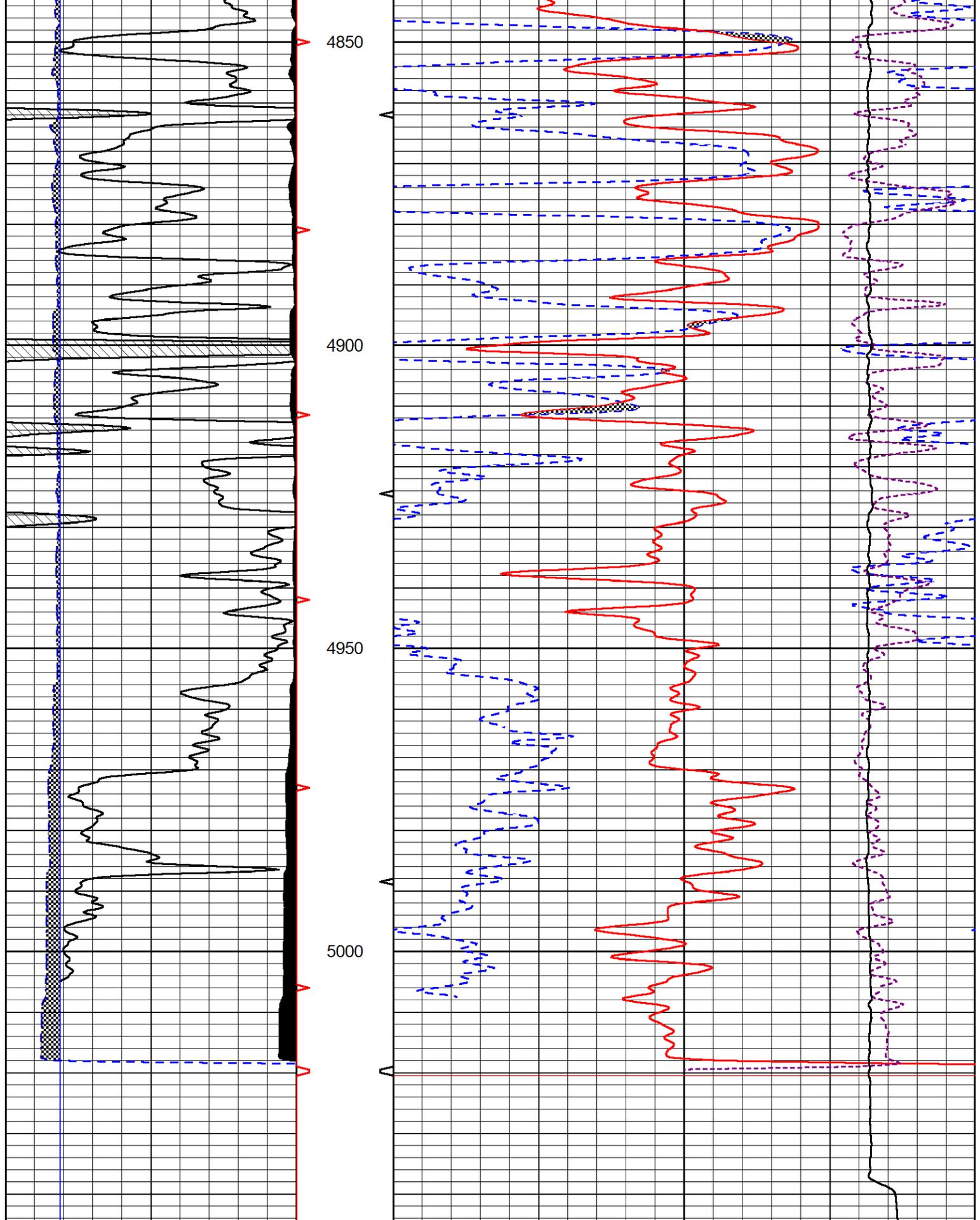
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File carmen schmitt_four boys 2028.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Thu Apr 28 10:54:32 2022
 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

Calibration Report

Database File carmen schmitt_four boys 2028.db
 Dataset Pathname stkml/pass3.14
 Dataset Creation Thu Apr 28 10:59:26 2022

Dual Induction Calibration Report

Serial-Model: 501 HT-M&W
 Surface Cal Performed: Wed Feb 23 19:44:50 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-37.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.320	-32.000

Microlog Calibration Report

Serial-Model: 402-PSIML
 Performed: Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	28000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	25000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-122.2000

Compensated Density Calibration Report

Serial-Model: 305-05-M&W
 Source #: 20762B
 Master Calibration Performed: Fri Apr 22 07:18:08 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8862.47	9339.96	cps
Aluminum	2.600	g/cc	1556.73	5707.29	cps
Spine Angle = 74.19			Density/Spine Ratio = 0.467		
	Size		Reading		
Small Ring	4.00	in	1.74		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial-Model: 207-MW-M&W
 Source #: 100046B
 Master Calibration Performed: Mon Nov 29 15:06:24 2021

Master Calibration

Detector	Readings	Target	Normalization
CL-10	2210.00	1000.00	1.0000

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:	101	
Tool Model:	M&W	
Performed:	Mon Jan 24 19:14:46 2022	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



Company	Carmen Schmitt, Inc.
Well	Four Boys #2-28
Field	PIANALTO
County	Cheyenne
State	Kansas