



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company VINCENT OIL COMPANY
Well SWONGER #3-4
Field MULBERRY CREEK
County FORD State KANSAS

Location: API #: 15-057-21040-00-00

Other Services

1212' FNL & 384' FEL
SEC 4 TWP 29S RGE 23W

DIL/MEL
BHCS

Permanent Datum GROUND LEVEL Elevation 2548'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2563'
D.F. 2561'
G.L. 2548'

Date 7/9/2020

Run Number ONE

Type Log CNL/CDL

Depth Driller 5410'

Depth Logger 5406'

Bottom Logged Interval 5397'

Top Logged Interval 4200'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 9200

Density 9.25

Level FULL

Max. Rec. Temp. F 130

Operating Rig Time 5 HOURS

Equipment -- Location P-24 HAYS

Recorded By D. SCHMIDT

Witnessed By KEN LEBLANC

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	695'	8.625"	23#	0'	695'
TWO	7.875"	695'	TD				

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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.

FORD,
5 1/2 SOUTH ON KINGSDOWN FORD RD TO WILBURN RD,
4.2 WEST, SOUTH INTO AT TB

Log Measured From: KELLY BUSHING 15 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: KEN LEBLANC
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\vincent_swonger 3-4.db
Dataset field/well/STKML/pass3.2/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	100	4.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	115	0		0



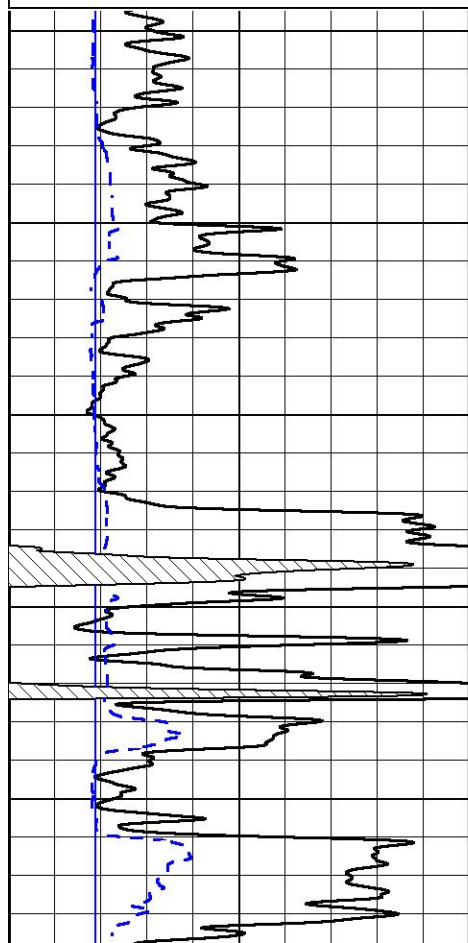
MAIN PASS

Database File vincent_swonger 3-4.db
Dataset Pathname STKML/pass3.1
Presentation Format _cdl
Dataset Creation Thu Jul 09 23:30:36 2020
Charted by Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150
6	DCAL (in)	16

COMPENSATED DENSITY (2.71 MA)

30	(pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
2.625	DGA (g/cc)	3.425
-0.25	CORRECTION (g/cc)	0.25



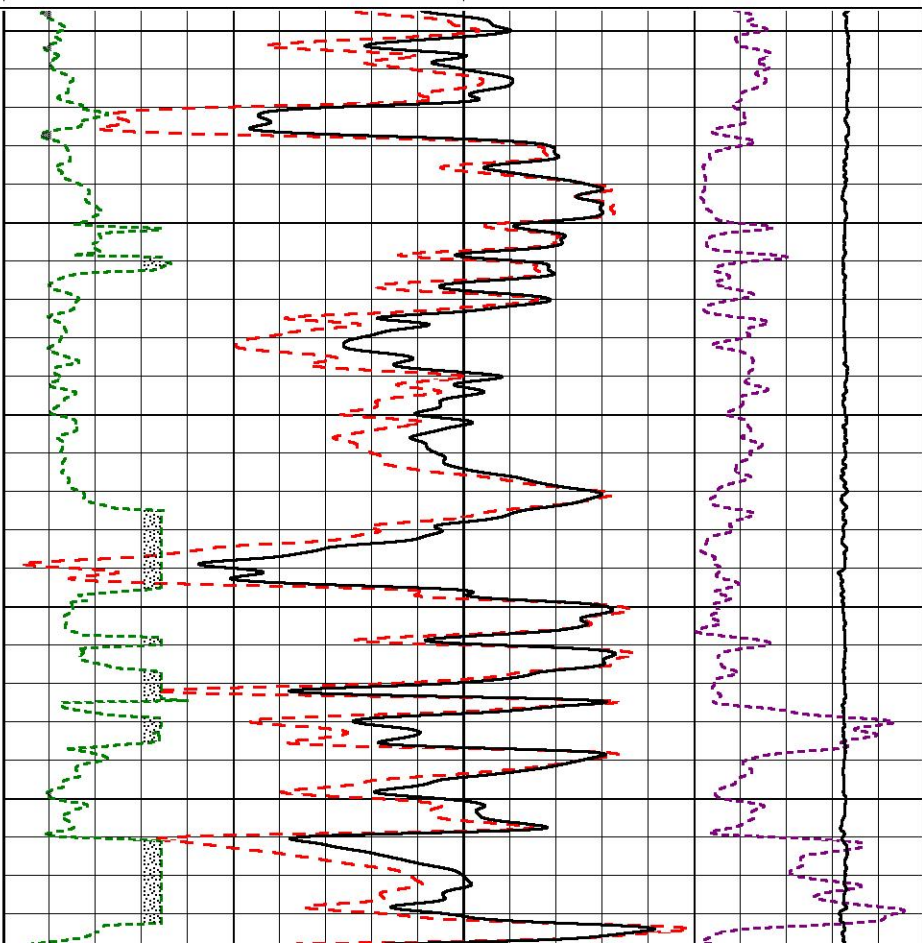
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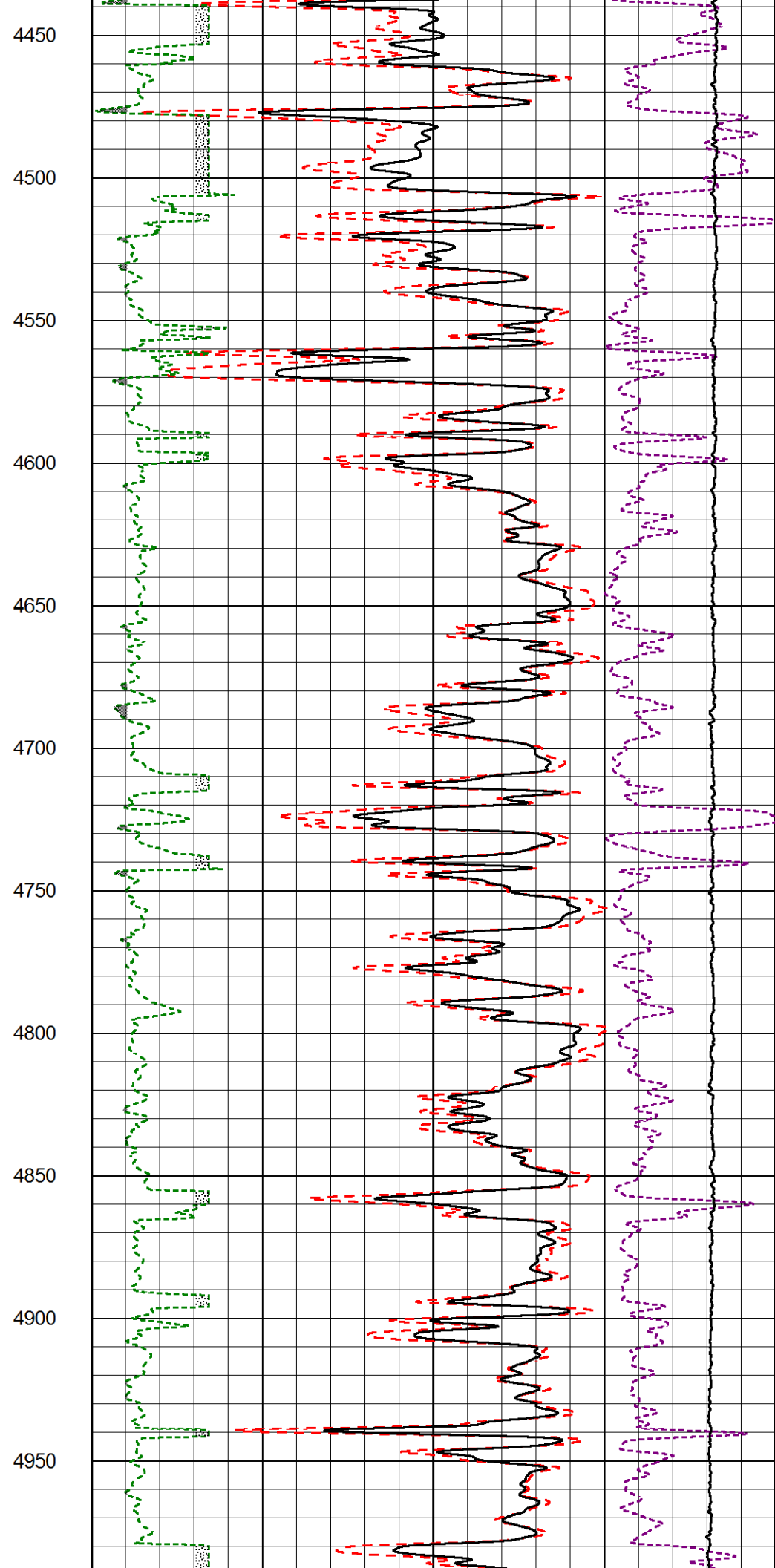
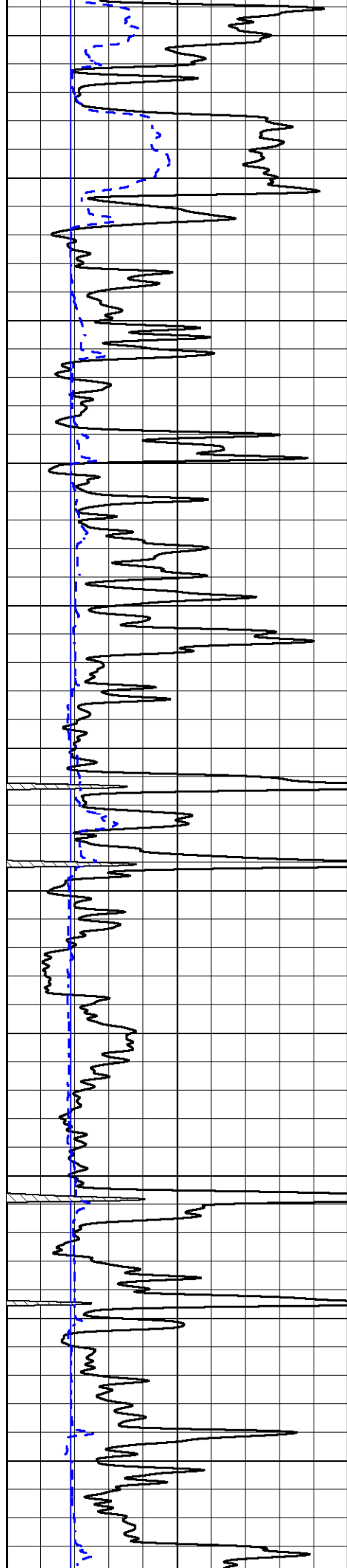
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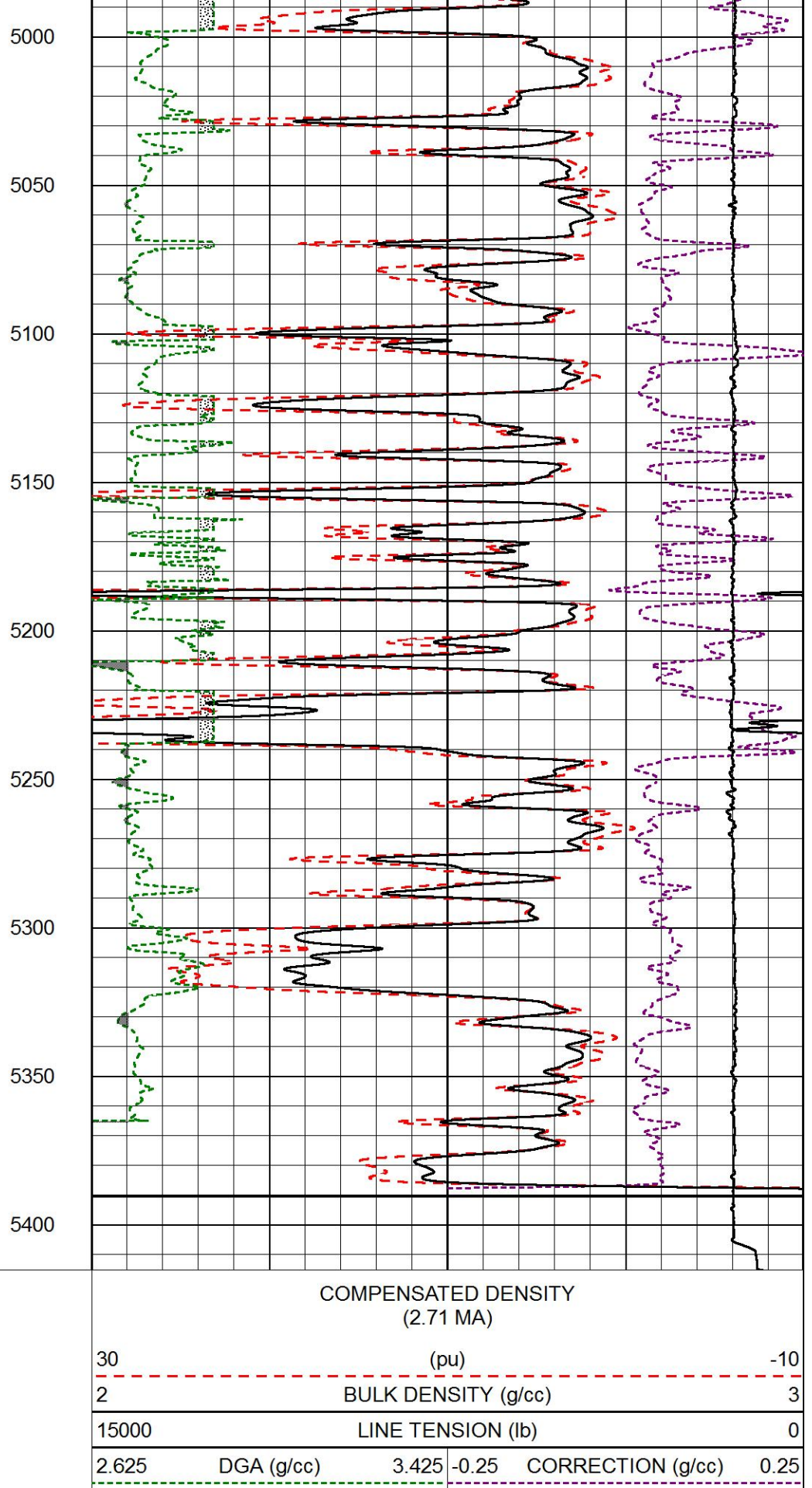
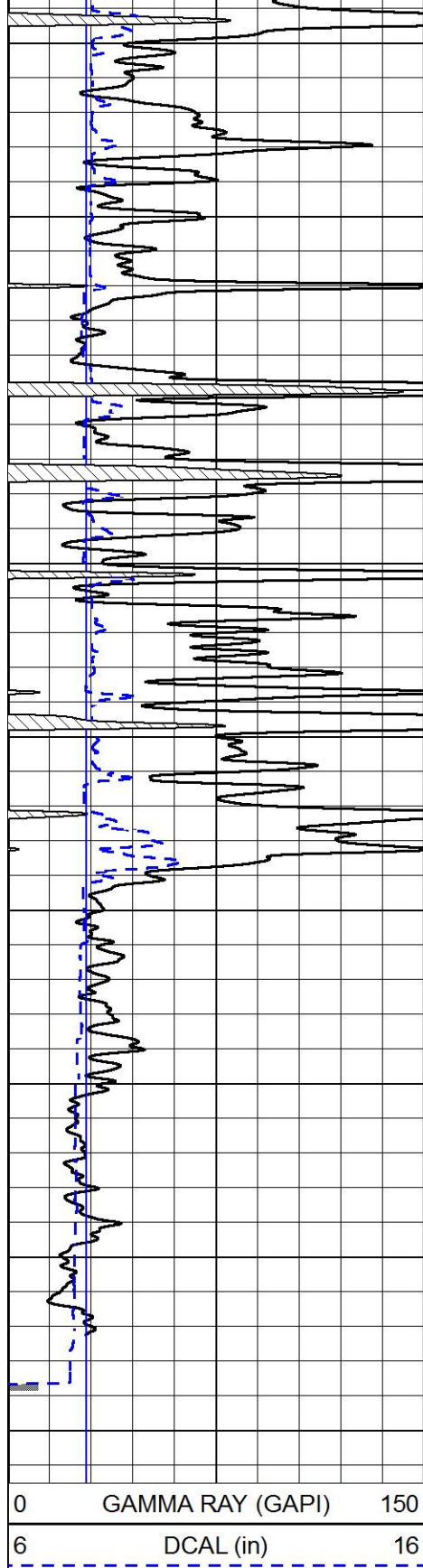
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4350

4400



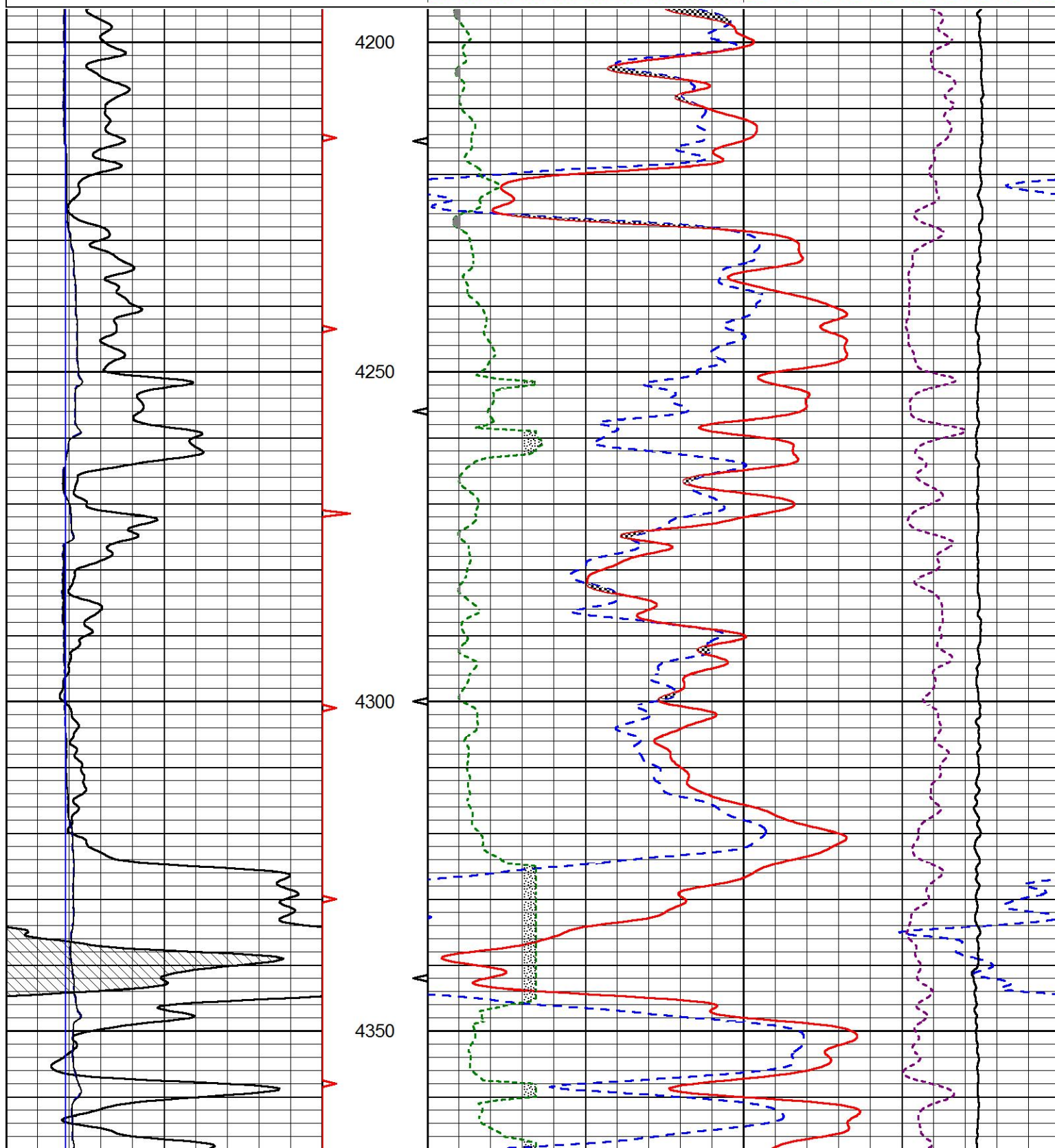


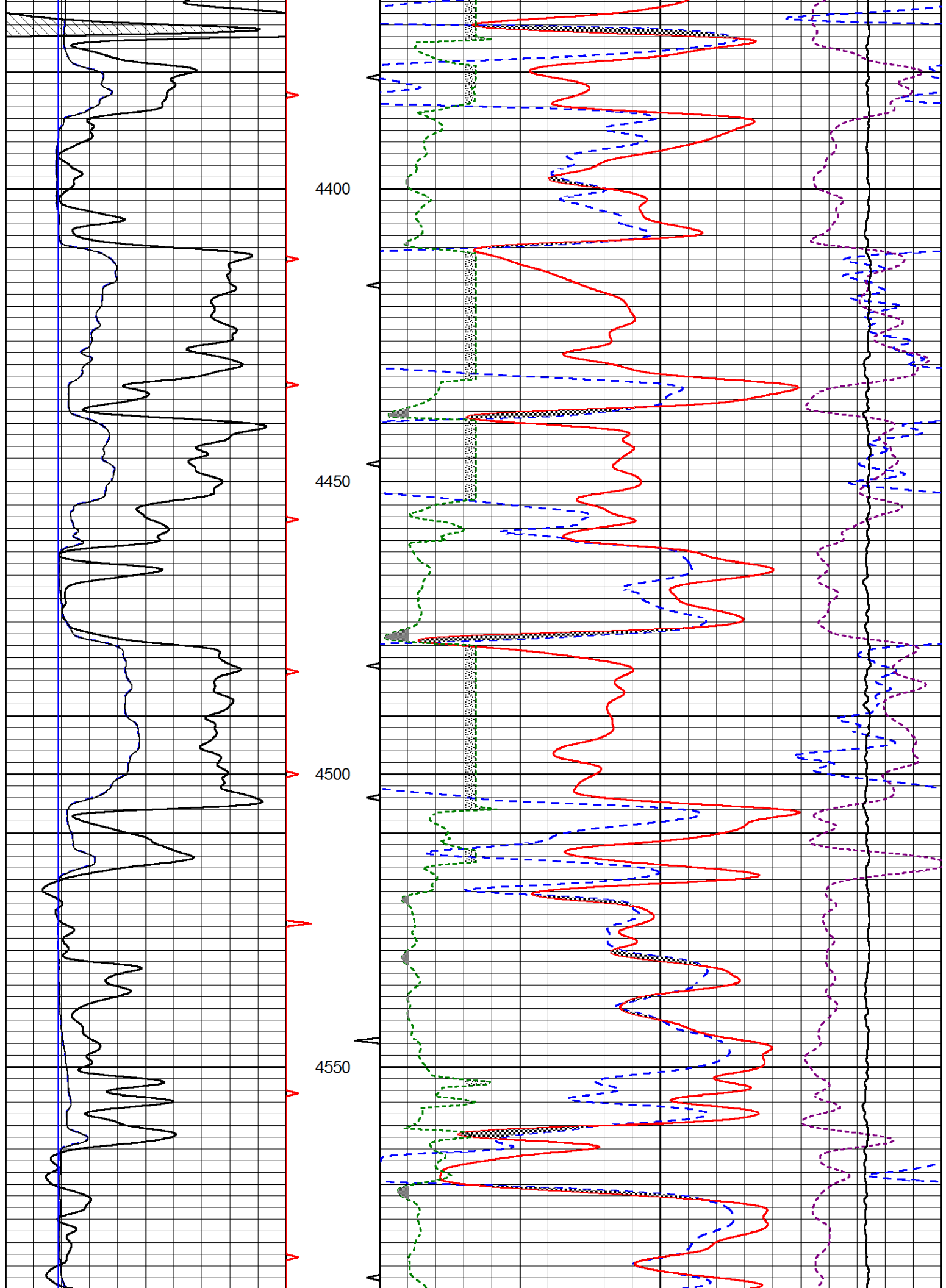


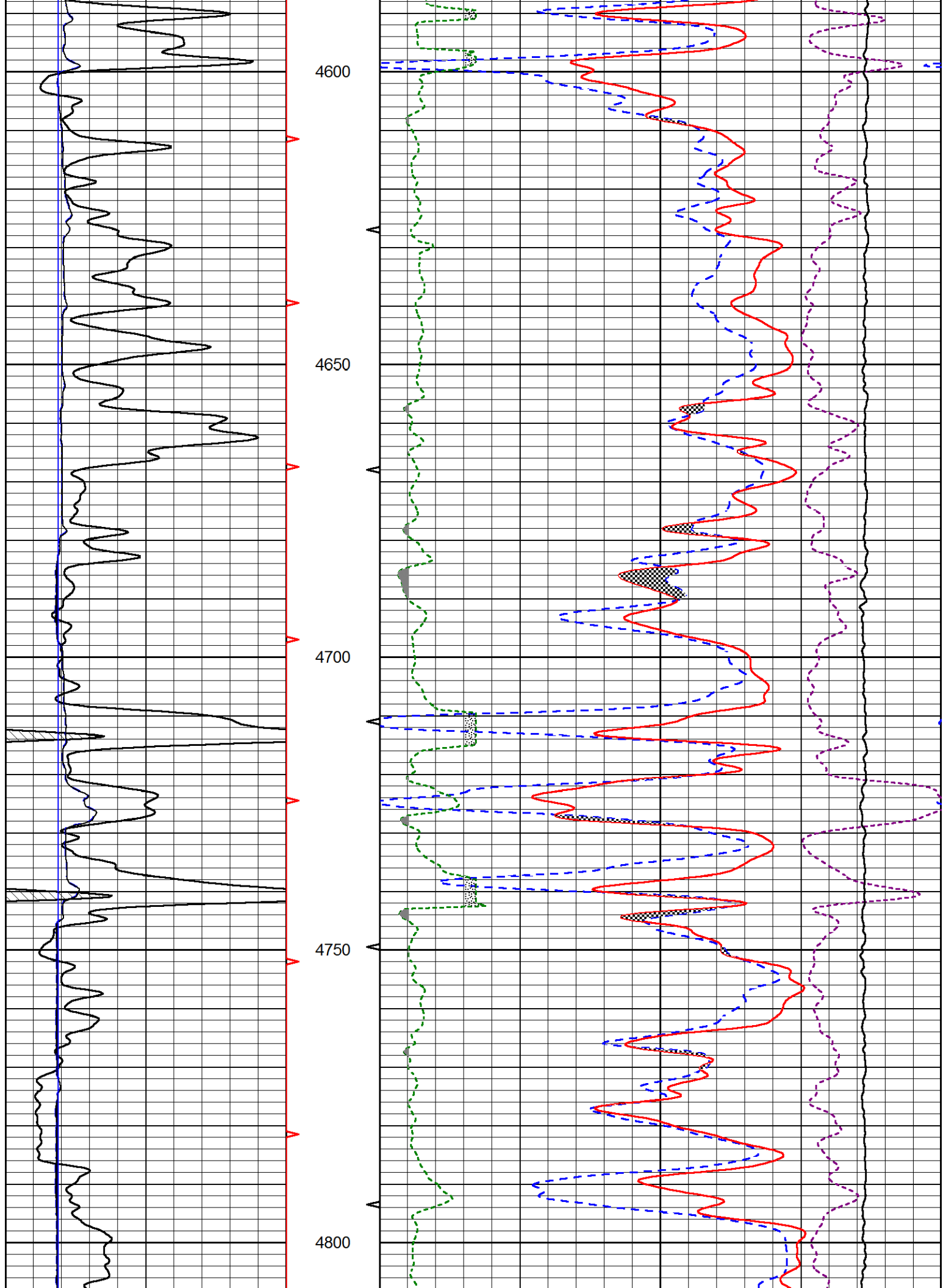
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Dataset Pathname STKML/pass3.1
Presentation Format _CNDLS~1
Dataset Creation Thu Jul 09 23:30:36 2020
Charted by Depth in Feet scaled 1:240

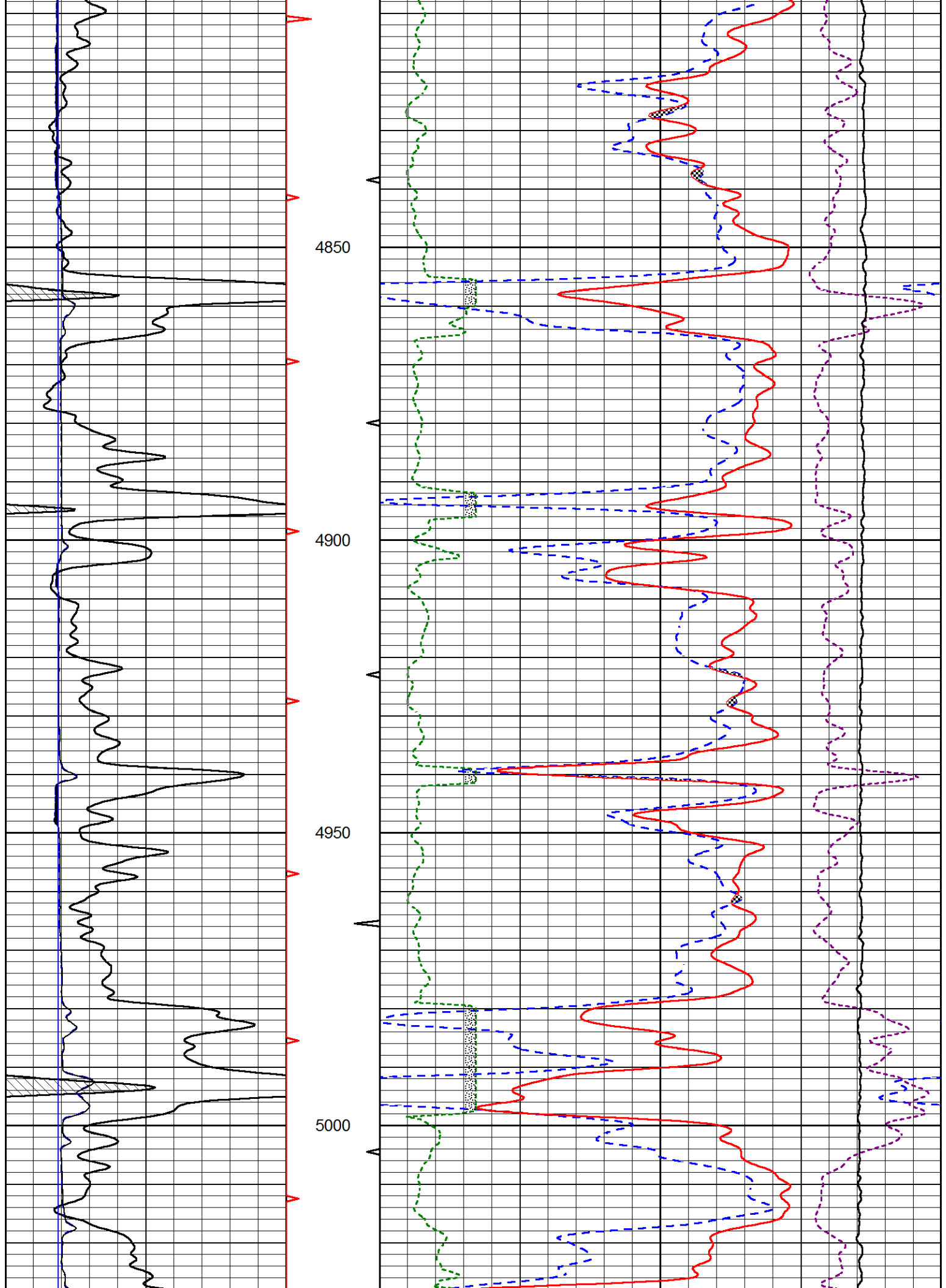
0	GAMMA RAY (GAPI)	150
6	DCAL (in)	16

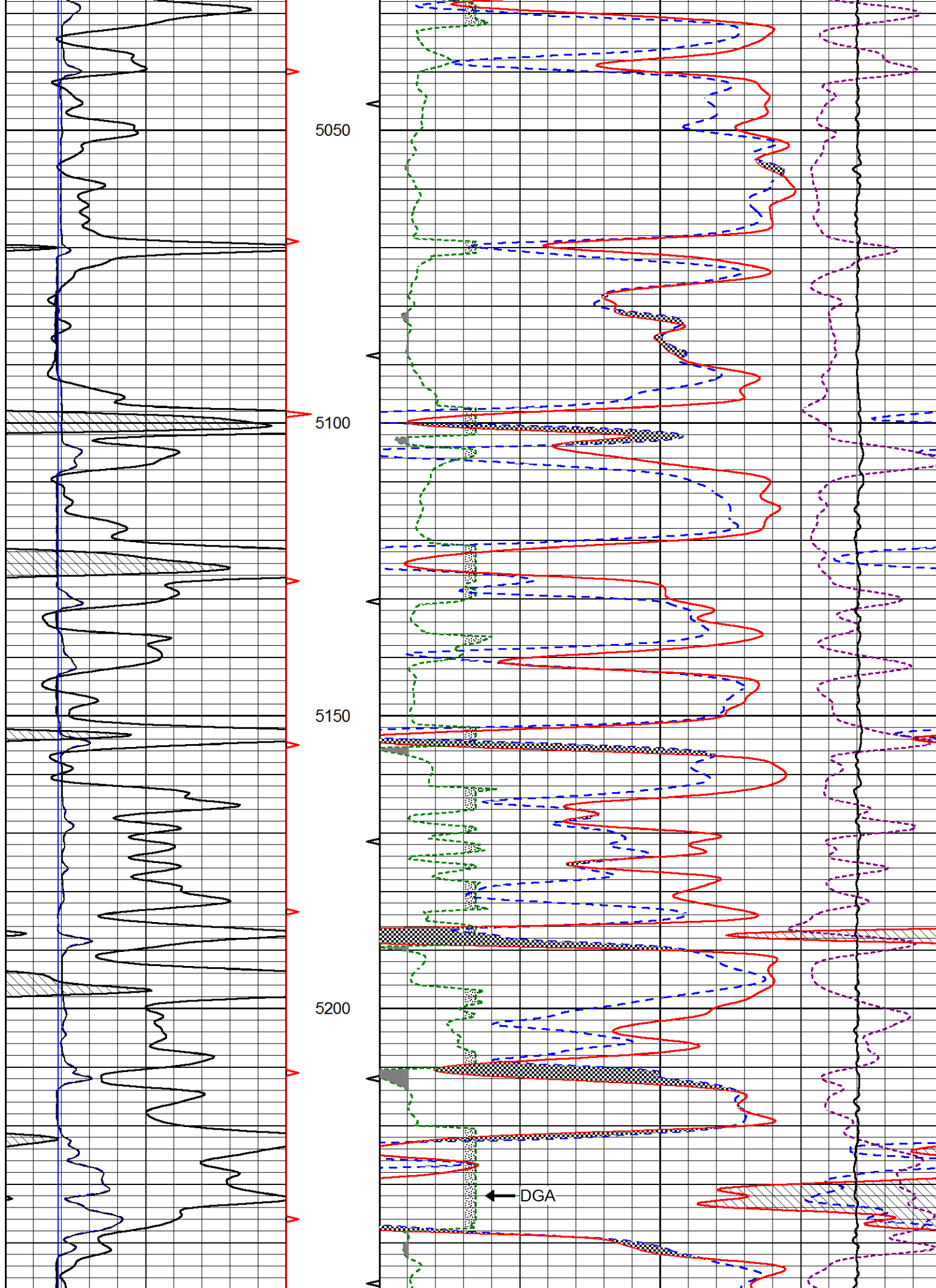
30	CNLS (pu)	-10			
30	DPOR (pu)	-10			
10000	LINE TENSION (lb)	0			
2.625	DGA (g/cc)	3.425	-0.25	CORRECTION (g/cc)	0.25

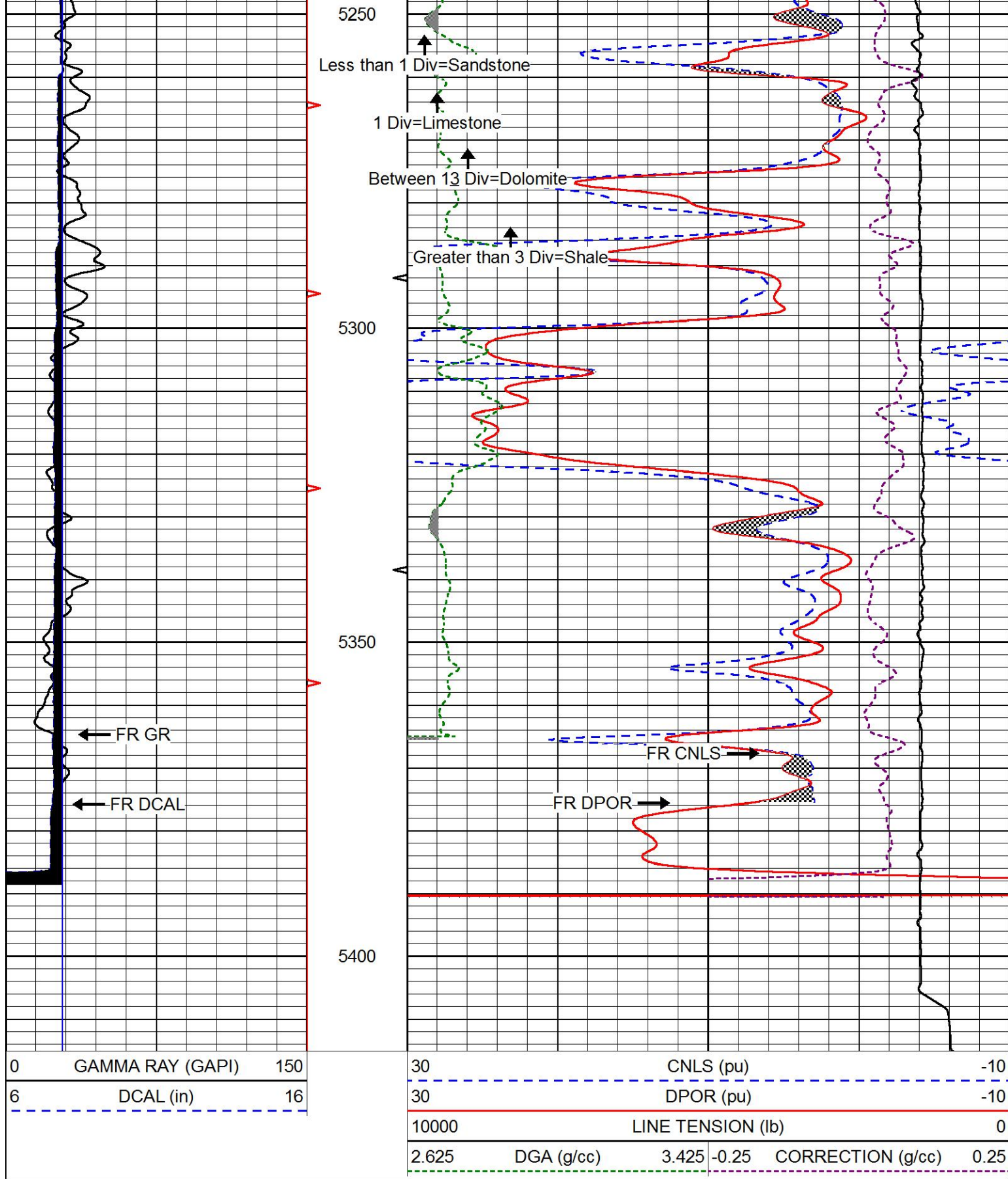








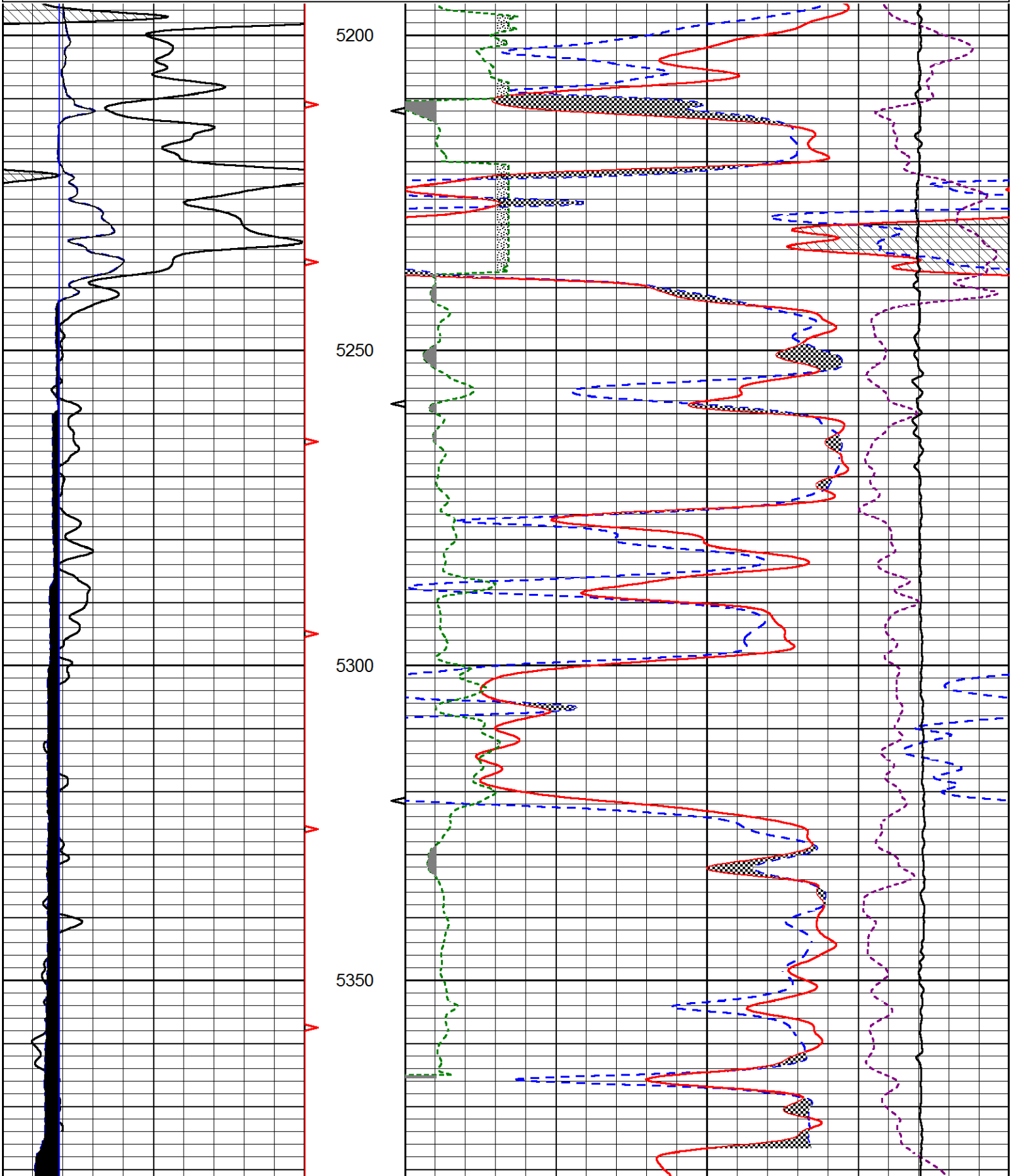


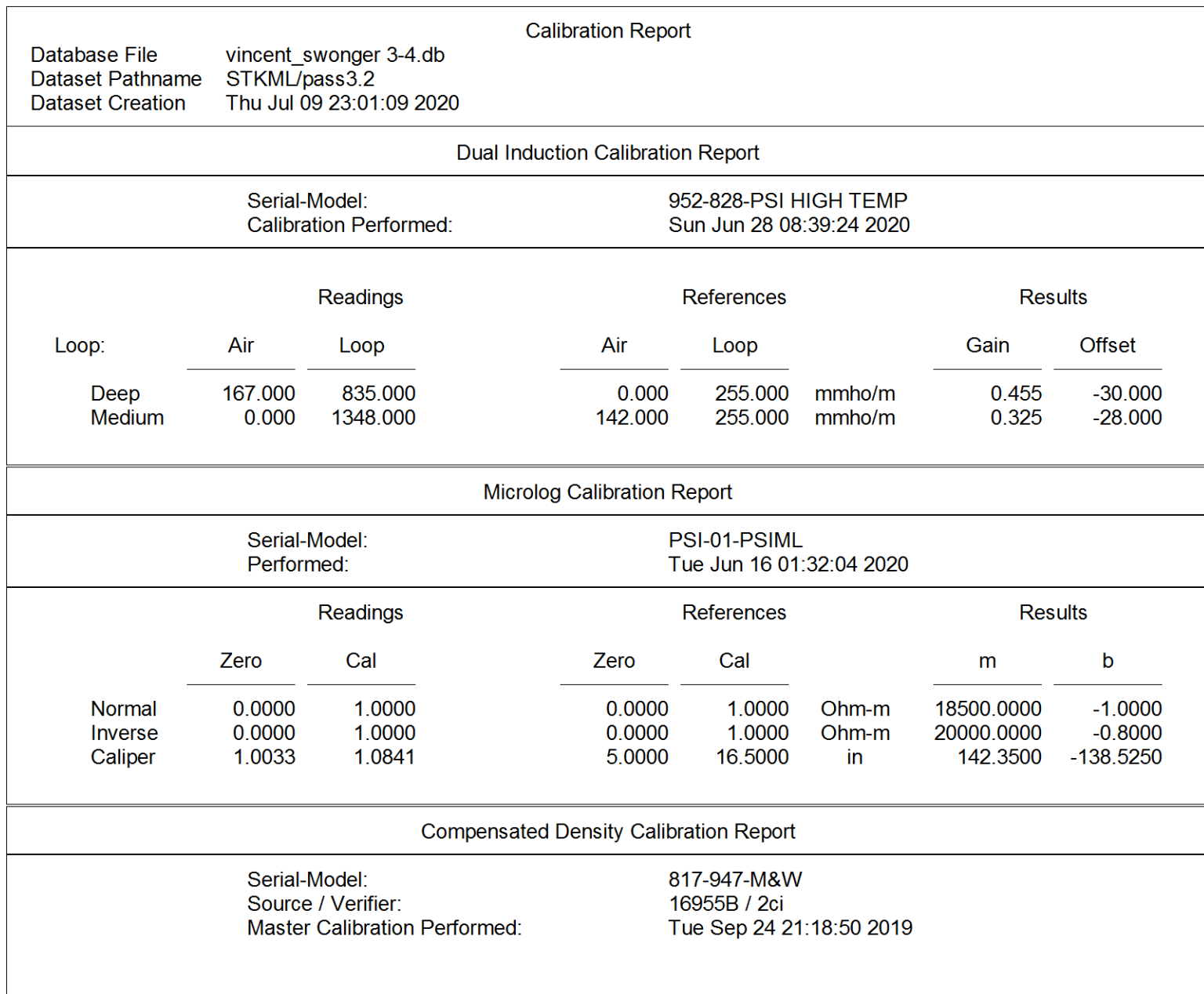


REPEAT SECTION

0	GAMMA RAY (GAPI)	150
6	DCAL (in)	16

30		CNLS (pu)		-10	
30		DPOR (pu)		-10	
10000		LINE TENSION (lb)		0	
2.625	DGA (g/cc)	3.425	-0.25	CORRECTION (g/cc)	0.25





Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps
Aluminum	2.685	g/cc	1141.85	3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.534		

	Size		Reading
Small Ring	4.50	in	1.02
Large Ring	14.50	in	1.23

Compensated Neutron Calibration Report
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Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	WED FEB 13 10:30:30 2019

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:	233-M&W	
Tool Model:	M&W	
Calibration Performed:	Fri Feb 07 01:42:40 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps

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	Well	SWONGER #3-4
	Field	MULBERRY CREEK
	County	FORD
	State	KANSAS