



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Carmen Schmitt, Inc.
 Well H&V Farms #2-35
 Field Schwartz North
 County Thomas
 State Kansas

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Location: API #: 15-193-21083-00-00
 720' FNL & 2210' FEL
 SEC 35 TWP 8S RGE 31W
 Permanent Datum Ground Level Elevation 2970'
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 DIL/MEL
 K.B. 2980'
 D.F. N/A
 G.L. 2970'

Date	4/1/2021						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	4635'						
Depth Logger	4635'						
Bottom Logged Interval	4606'						
Top Logged Interval	3600'						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	3500						
Density	9.4						
Level	Full						
Max. Rec. Temp. F	122						
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.	From	To
One	12.25"	0'	263'	8.625"	23#	0'	263'
Two	7.875"	263'					
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.

Menlo,
 South to O Rd, West to 35 Rd,
 1 South, 1/2 East,
 South into

Log Measured From: Kelly Bushing 10 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: D. Schmidt
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Brad Rine
 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 (817-947)	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-PSI HIGH TEMP (PSI 971 HT)	18.50	3.50	220.00
CILM	4.70					
SP	0.20					

Dataset: carmen schmitt_h v farms 2-35.db: field/well/stkml/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\carmen schmitt_h v farms 2-35.db
 Dataset field/well/stkml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	46	0	Off	0

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



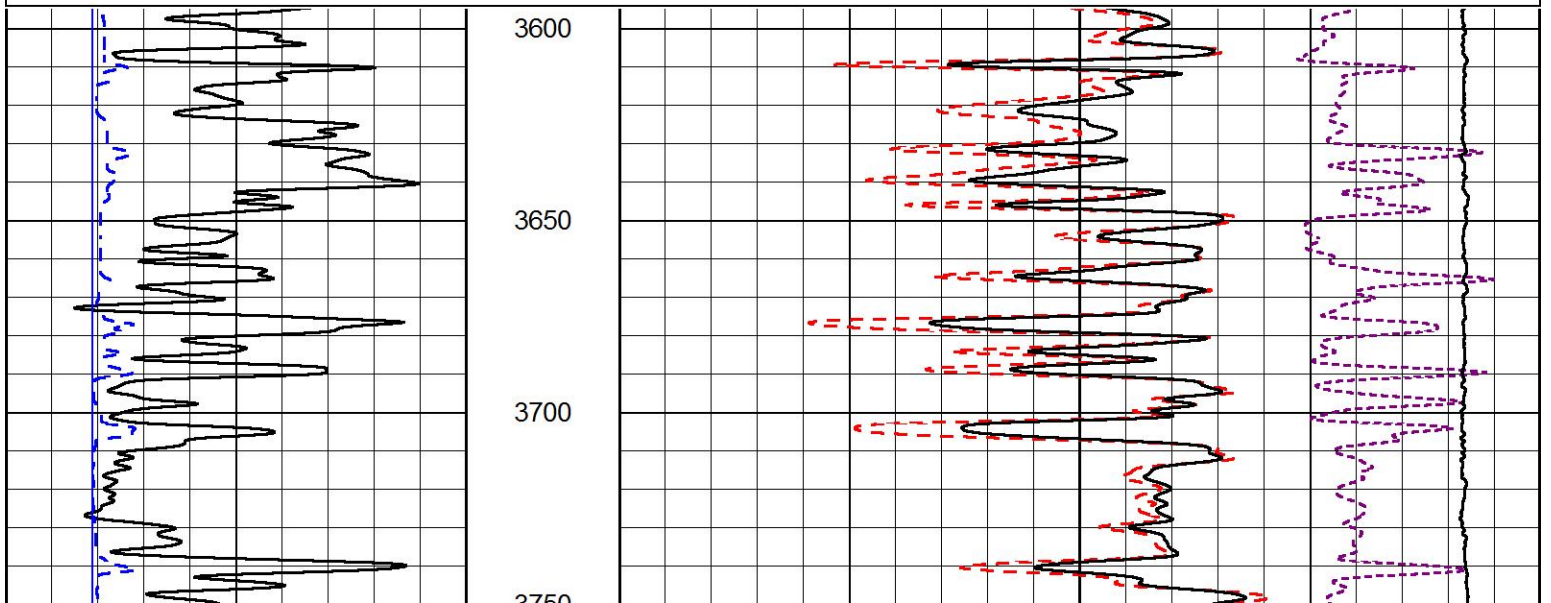
2" SCALE BULK DENSITY

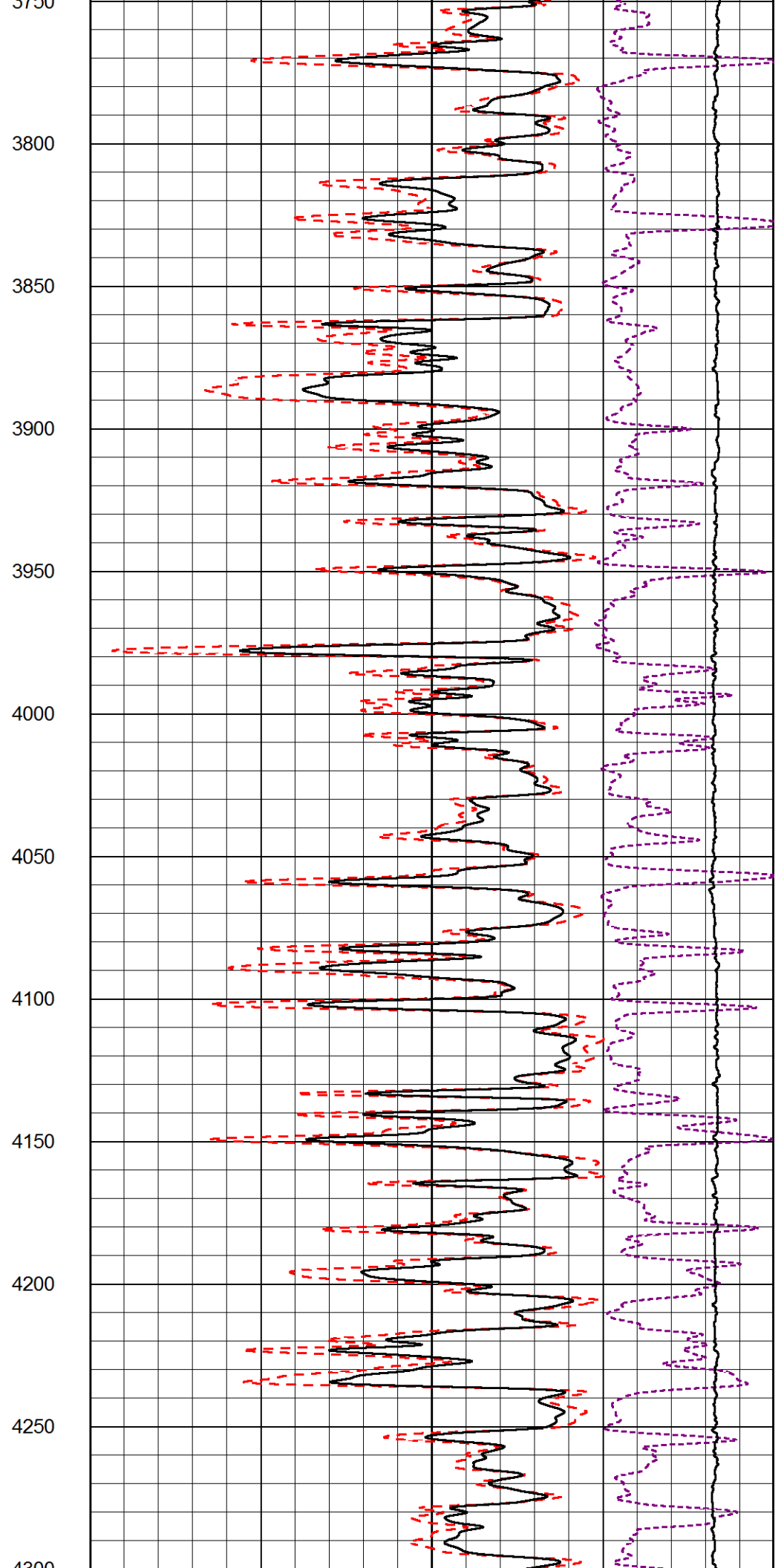
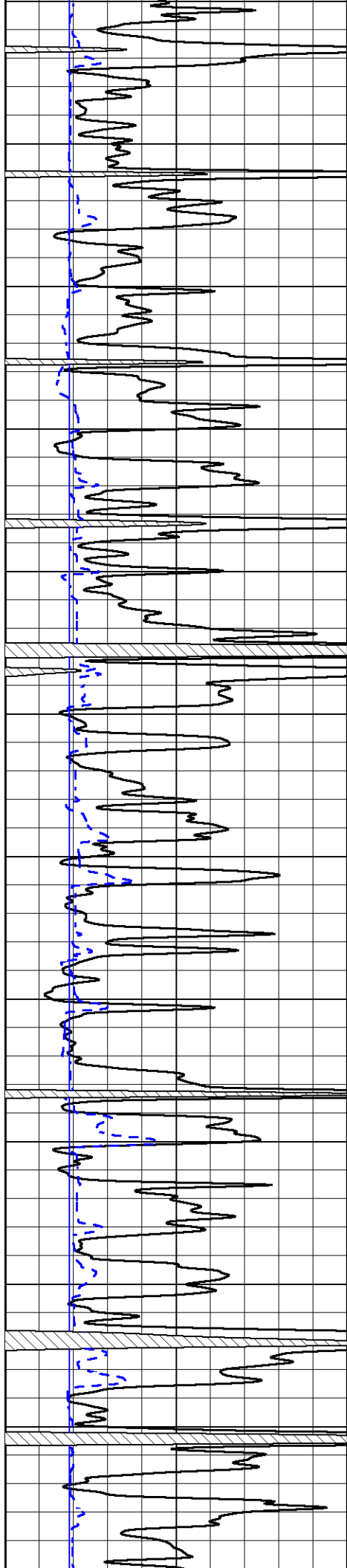
MAIN PASS

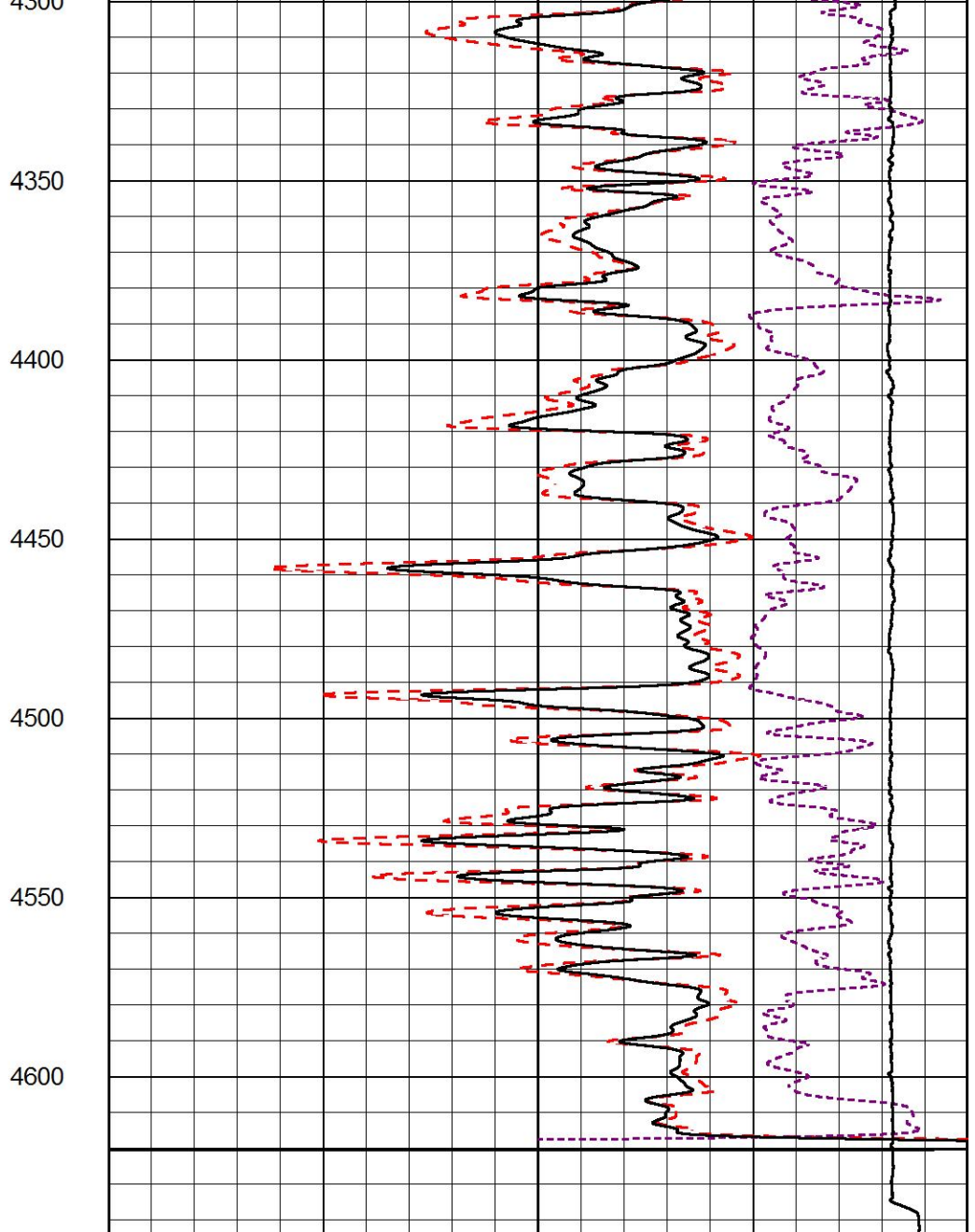
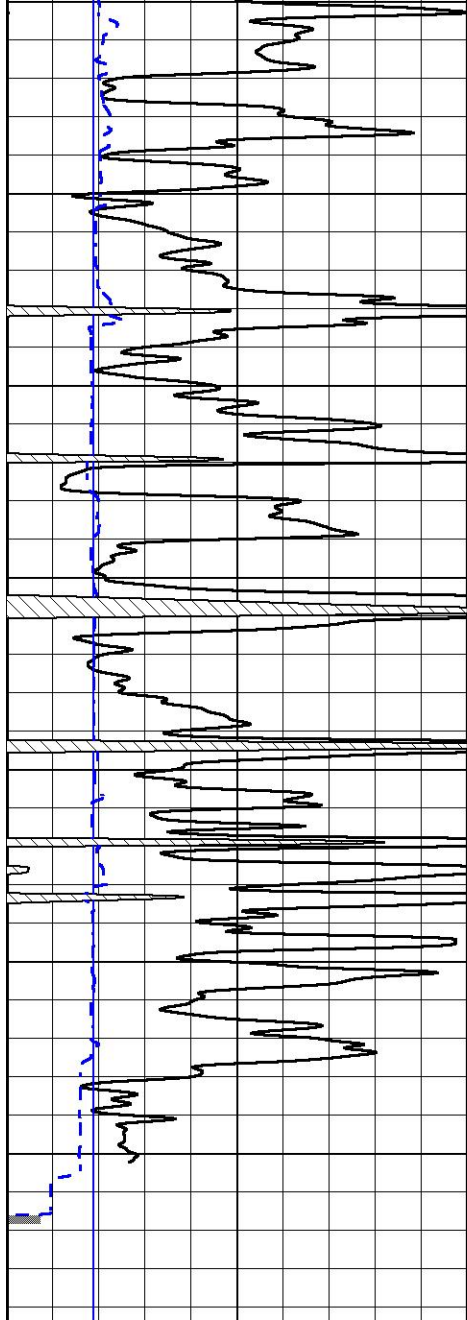
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 Dataset Pathname stkml/pass4.1
 Presentation Format _cdl
 Dataset Creation Thu Apr 01 14:58:46 2021
 Charted by Depth in Feet scaled 1:600

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

COMPENSATED DENSITY (2.65 MA)	
30	(pu) -10
2	BULK DENSITY (g/cc) 3
15000	LINE TENSION (lb) 0
-0.25	CORRECTION (g/cc) 0.25







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

COMPENSATED DENSITY (2.65 MA)		
30	(pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

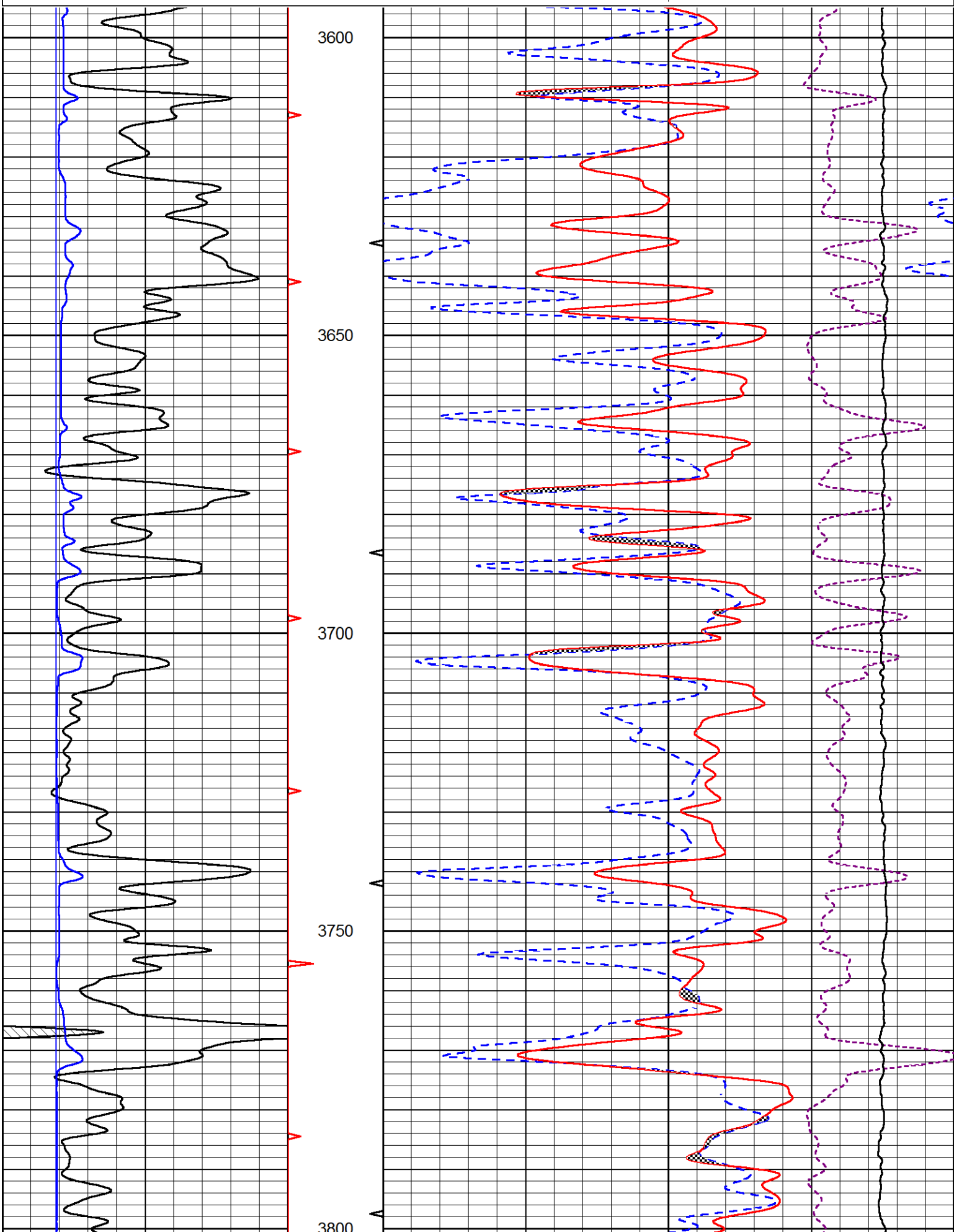


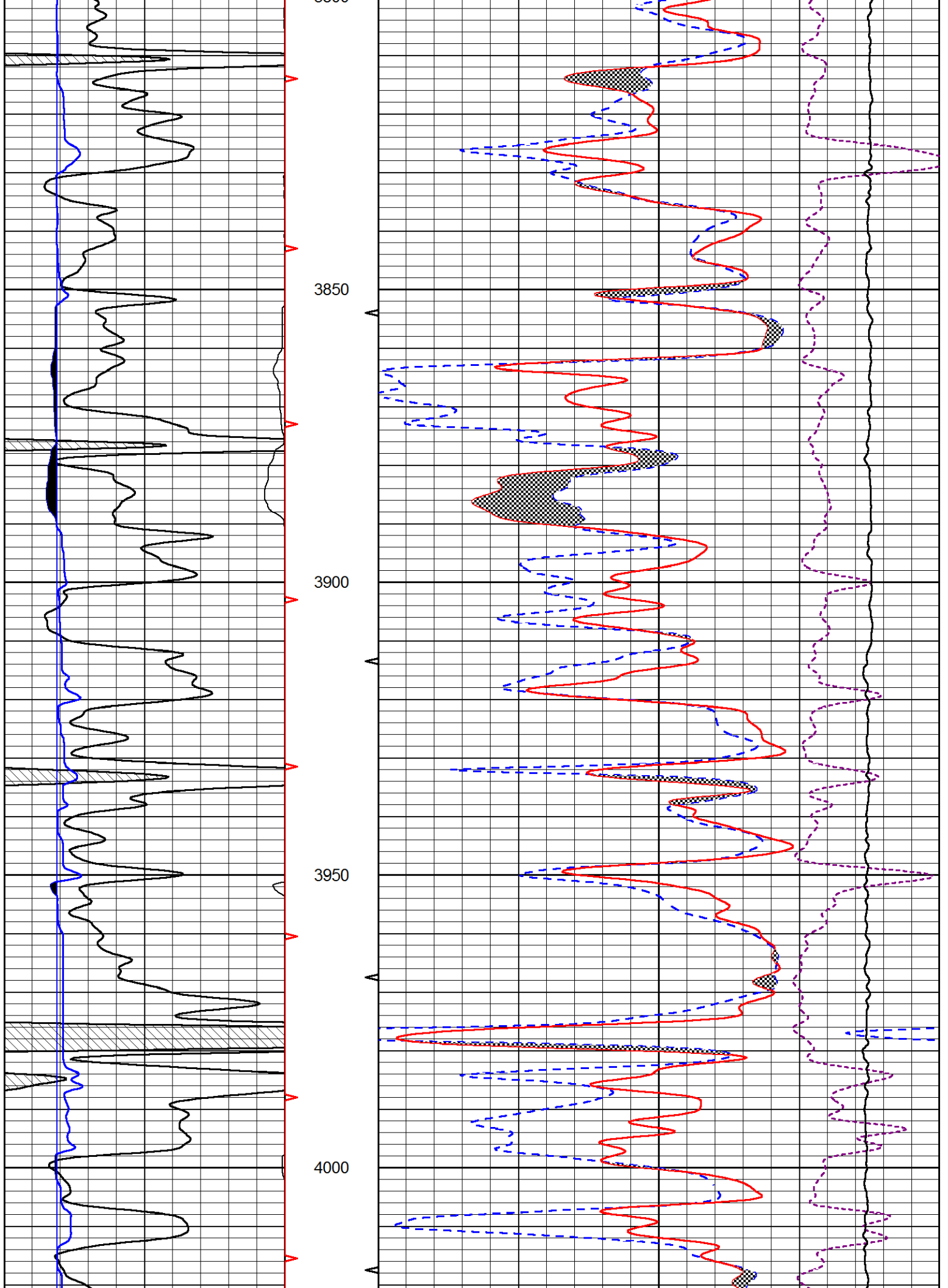
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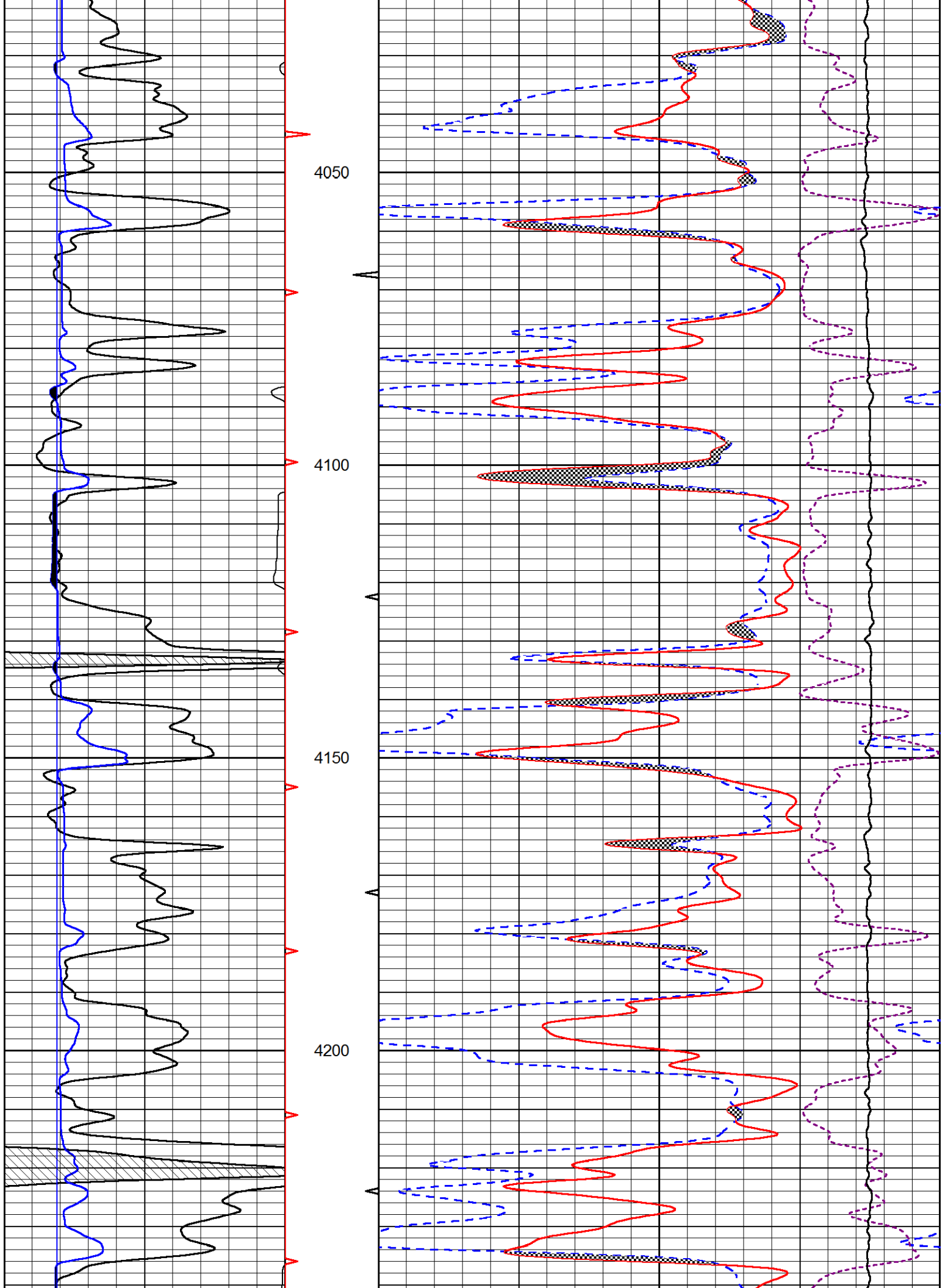
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 Charted by Depth in Feet scaled 1:240

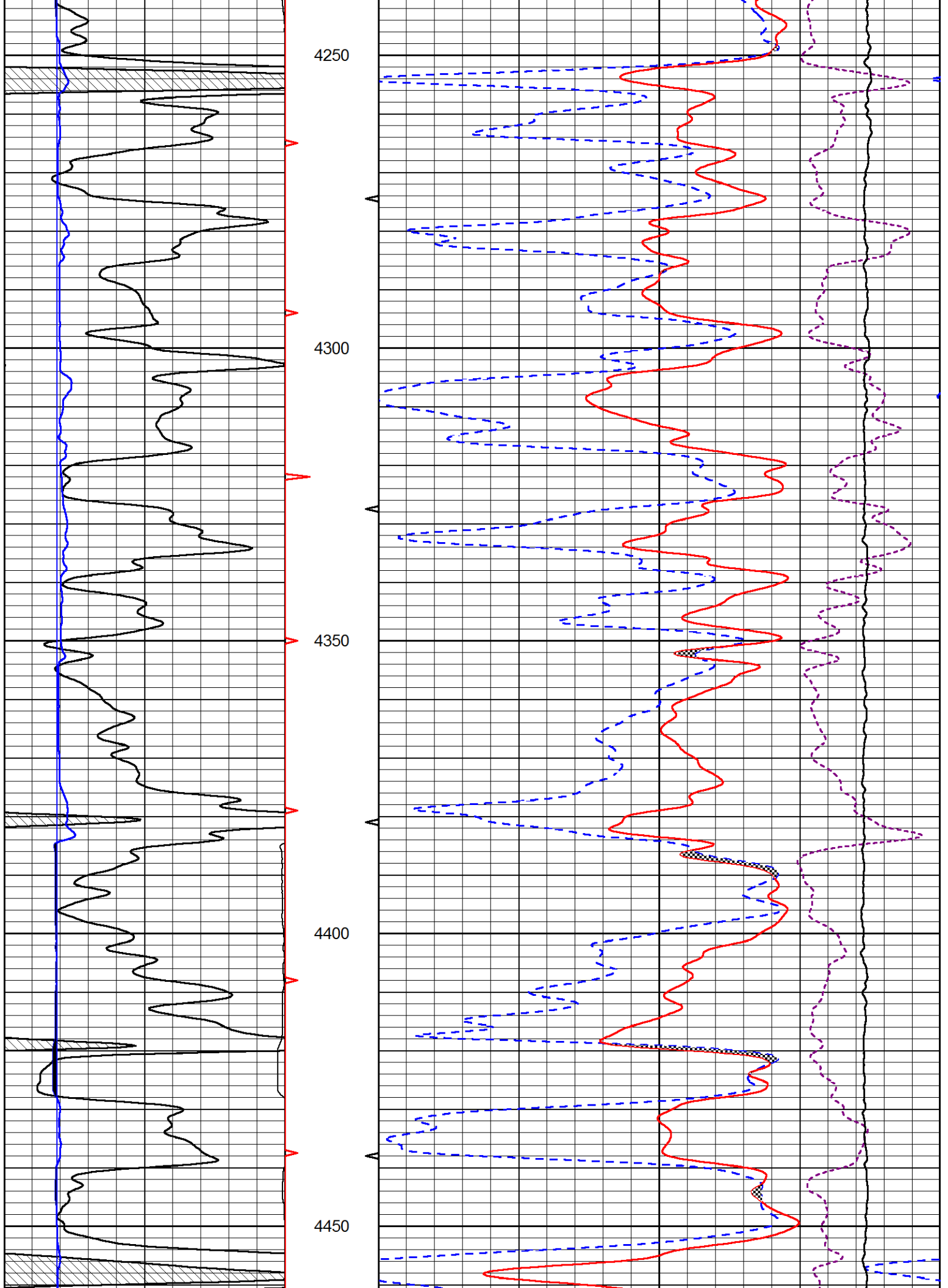
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6	DCAL (in)	16

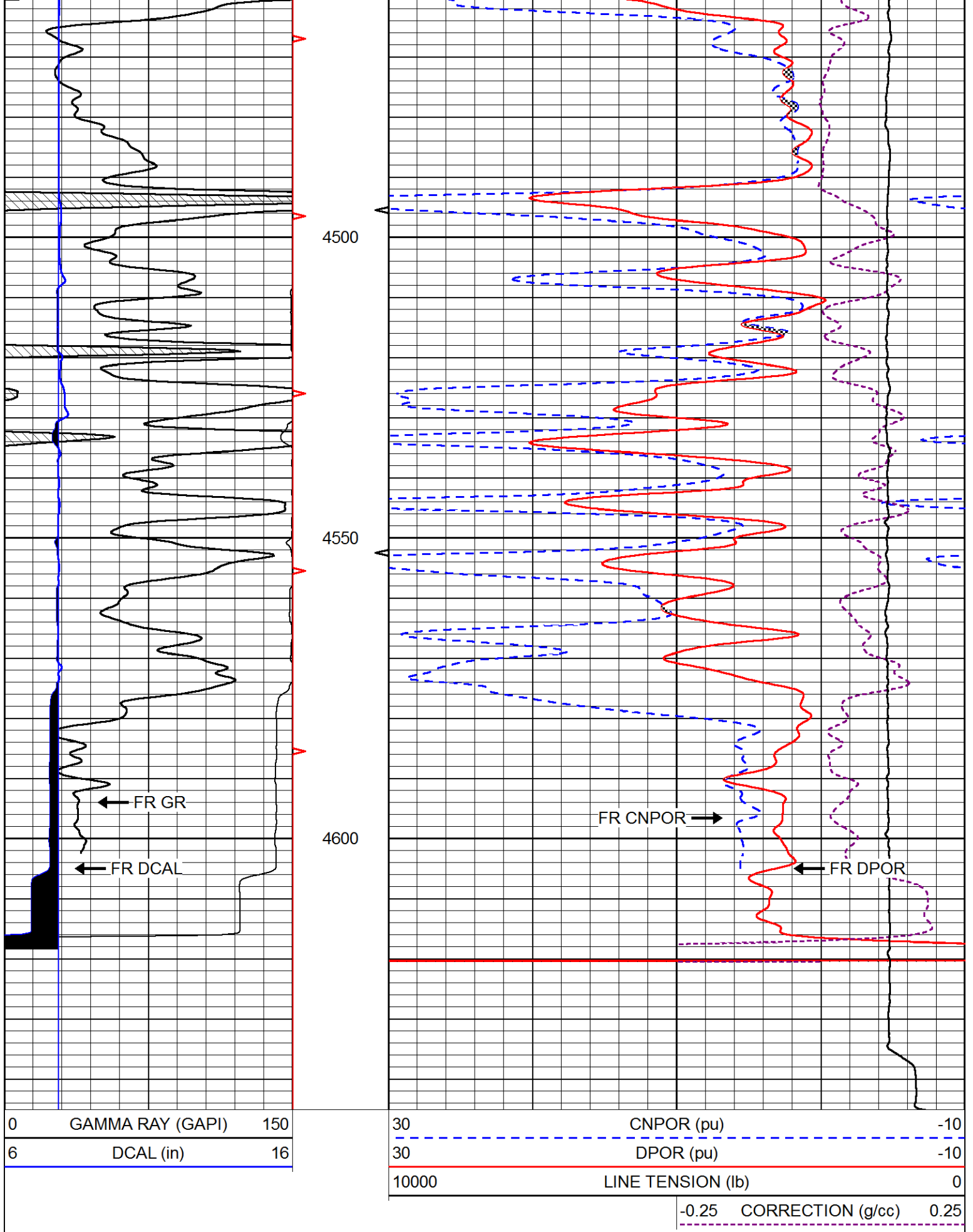
30	CNPOR (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25











REPEAT SECTION

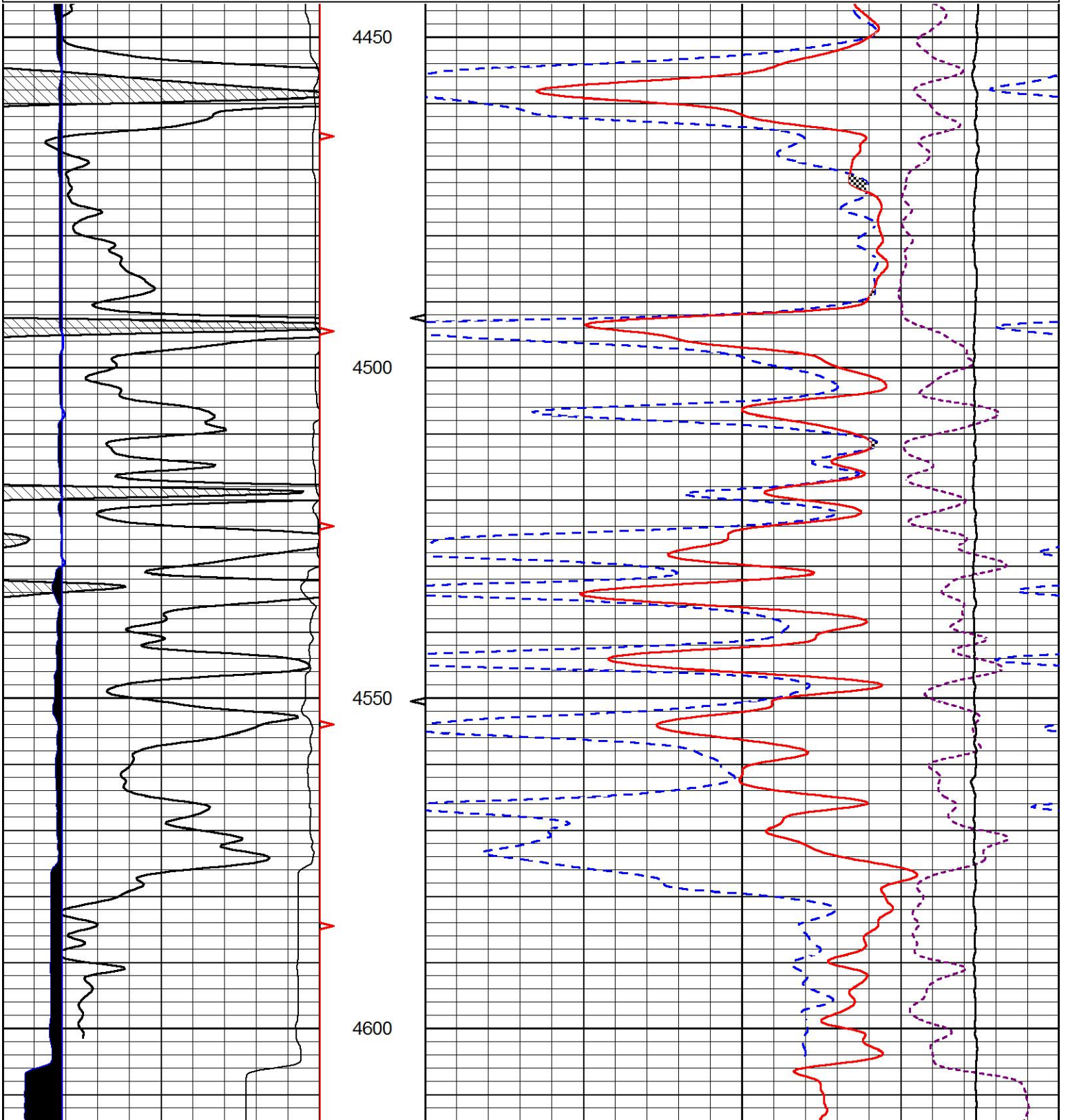


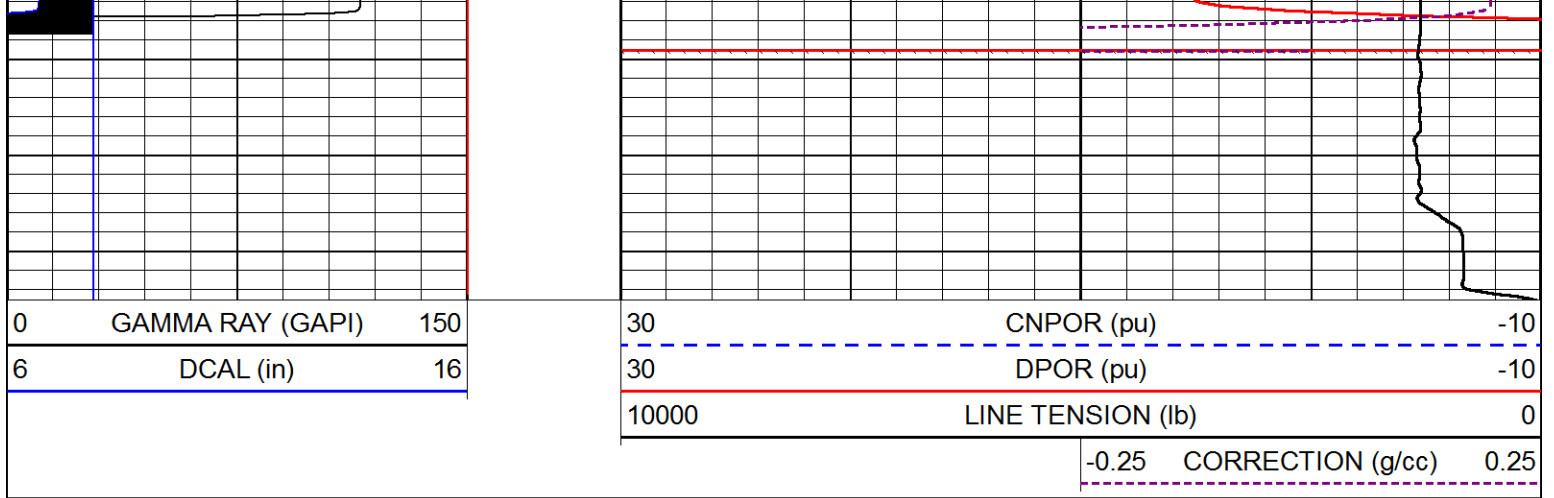
REPEAT SECTION

Database File carmen schmitt_h v farms 2-35.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _CNDLS~1
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 Charted by Depth in Feet scaled 1:240

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

30	CNPOR (pu)	-10
30	DPOR (pu)	-10
10000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25





Calibration Report

Database File carmen schmitt_h v farms 2-35.db
 Dataset Pathname stkml/pass3.1
 Dataset Creation Thu Apr 01 14:49:56 2021

Dual Induction Calibration Report

Serial-Model: PSI 971 HT-PSI HIGH TEMP
 Surface Cal Performed:

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	167.000	835.000	0.000	255.800	mmho/m	0.430	-29.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.375	-29.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Wed Mar 3 05:24:59 2021

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.8500
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	0.0000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.6500

Compensated Density Calibration Report

Serial-Model: 817-947-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Mon Mar 15 12:10:28 2021
 Before Survey Verification Performed:
 After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5708.83	5527.94	cps
Aluminum	2.680	g/cc	1049.66	3515.58	cps

Spine Angle = 75.04

Density/Spine Ratio = 0.528

Size

Reading

Small Ring	4.50	in	1.02
Large Ring	14.50	in	1.23

Before Survey Verification				
	<u>Target</u>		<u>Measured</u>	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

After Survey Verification				
	<u>Target</u>		<u>Measured</u>	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

Compensated Neutron Calibration Report

Serial Number:	207-MW
Tool Model:	M&W

CALIBRATION					
	Detector	Readings		Target	Normalization
	Short Space	6240.00	cps	1000.00	1.6025
	Long Space	460.00	cps	1000.00	1.9500

PRE-SURVEY VERIFICATION					
	Detector	Readings		Measured	Target
1)	Short Space		cps		
	Long Space		cps	pu	pu
2)	Short Space		cps		
	Long Space		cps	pu	
3)	Short Space		cps		
	Long Space		cps	pu	

POST-SURVEY VERIFICATION					
	Detector	Readings		Measured	Target
1)	Short Space		cps		
	Long Space		cps	pu	pu
2)	Short Space		cps		
	Long Space		cps	pu	pu
3)	Short Space		cps		
	Long Space		cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	233-M&W	
Tool Model:	M&W	
Performed:	Wed Mar 3 05:25:33 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:

0.5500

GAPI/cps



MIDWEST WIRELINE

Company	Carmen Schmitt, Inc.
Well	H&V Farms #2-35
Field	Schwartz North
County	Thomas
State	Kansas