



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Russell Oil, Inc.		Company Russell Oil, Inc.					
Well Johnson #14-1		Well Johnson #14-1					
Field		Field					
County Logan		County Logan					
State Kansas		State Kansas					
Location: API #: 15-109-21653-00-00		Other Services					
1349 FNL & 2283 FWL		DIL/MEL					
SEC 14 TWP 11S RGE 32W							
Permanent Datum	Ground Level	Elevation	3049				
Log Measured From	Kelly Bushing	K.B.	3059				
Drilling Measured From	Kelly Bushing	D.F.					
		G.L.	3049				
Date	8/15/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	4720						
Depth Logger	4719						
Bottom Logged Interval	4690						
Top Logged Interval	3700						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	3200						
Density	9.3						
Level	Full						
Max. Rec. Temp. F	123						
Operating Rig Time	3 Hours						
Equipment -- Location	P-108 HAYS						
Recorded By	D. Schmidt						
Witnessed By	Kitt Noah						
Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	311	8.625	23	0	311
Two	7.875	311	TD				

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

Oakley,
1 South on Hwy 83 to Daydream Rd, 1/4 East,
South and West 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	This Log Record Was Witnessed By
Engineer: D. Schmidt	Primary Witness: Kitt Noah
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\russell_johnson 14-1.db
Dataset field/well/stkml/pass4.10/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 123	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 345	degF 95	Off	ft 4719

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



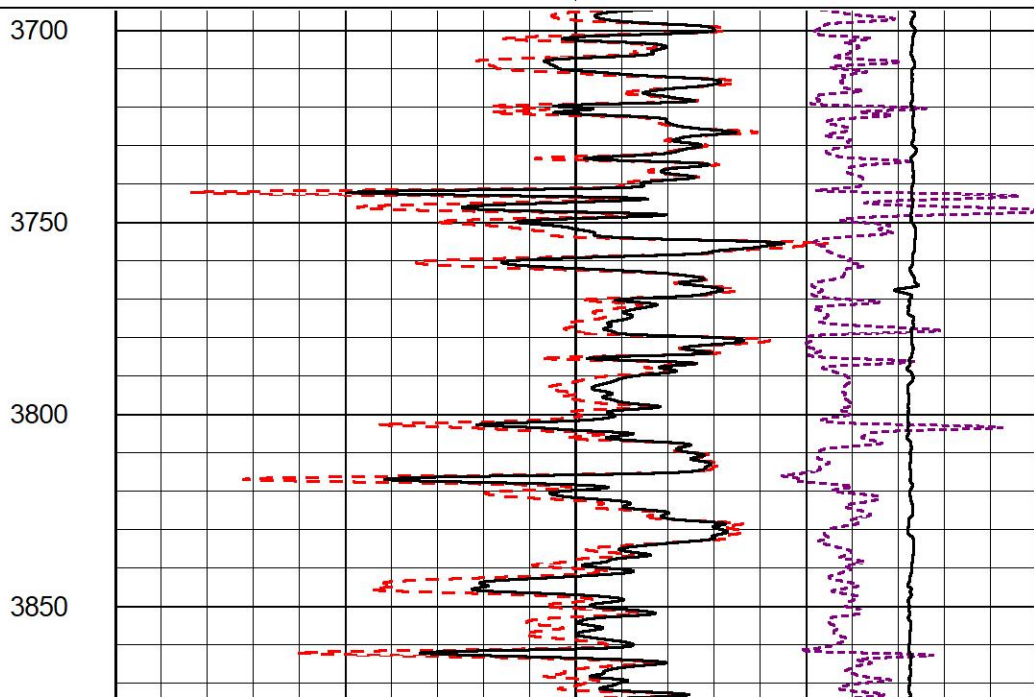
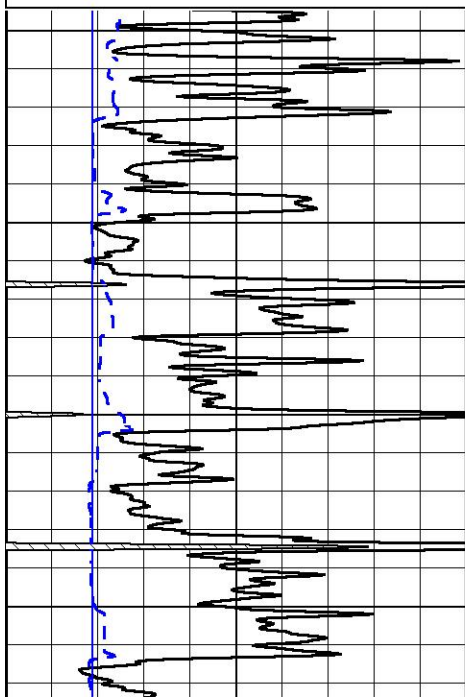
2" SCALE BULK DENSITY

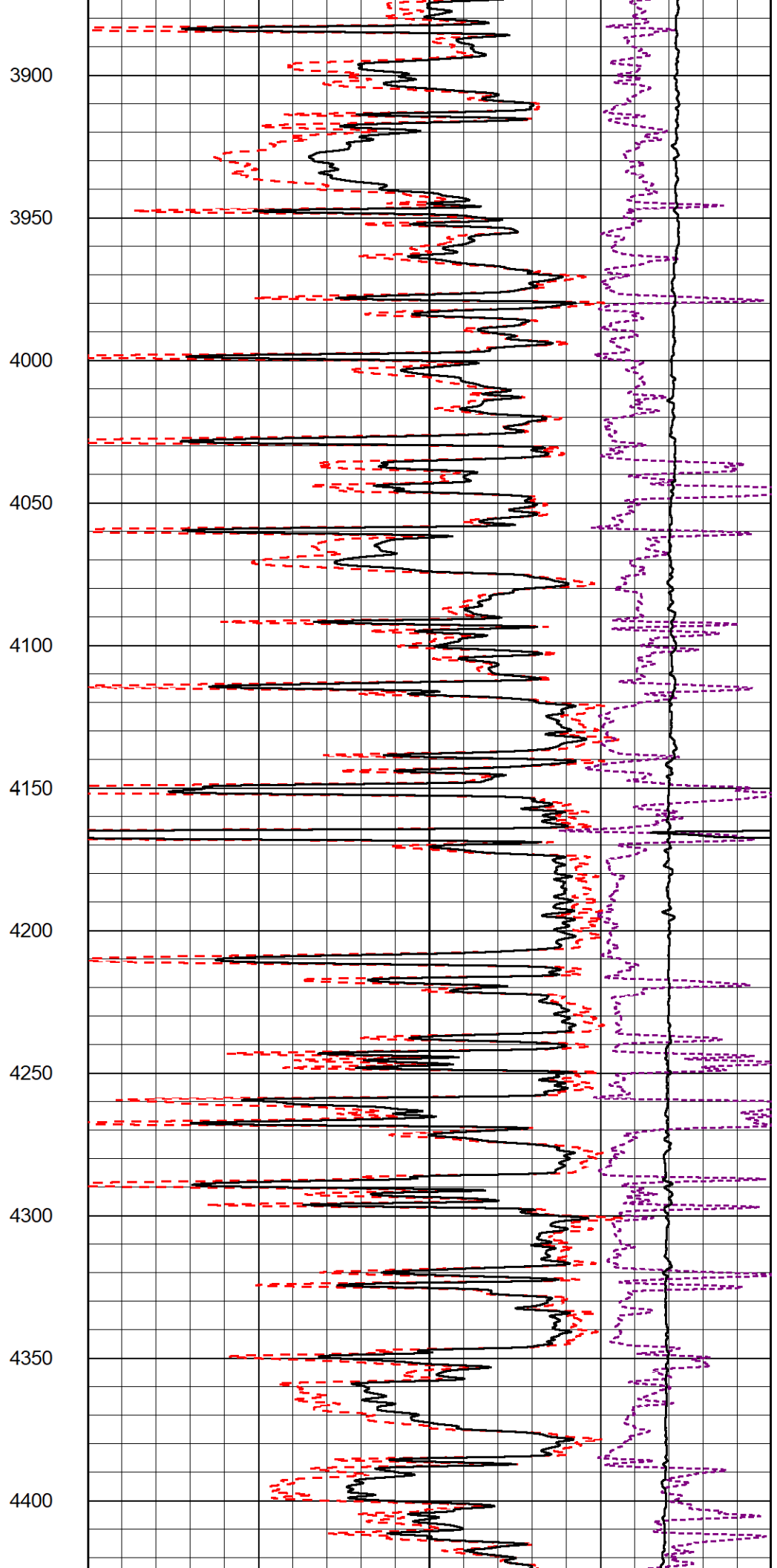
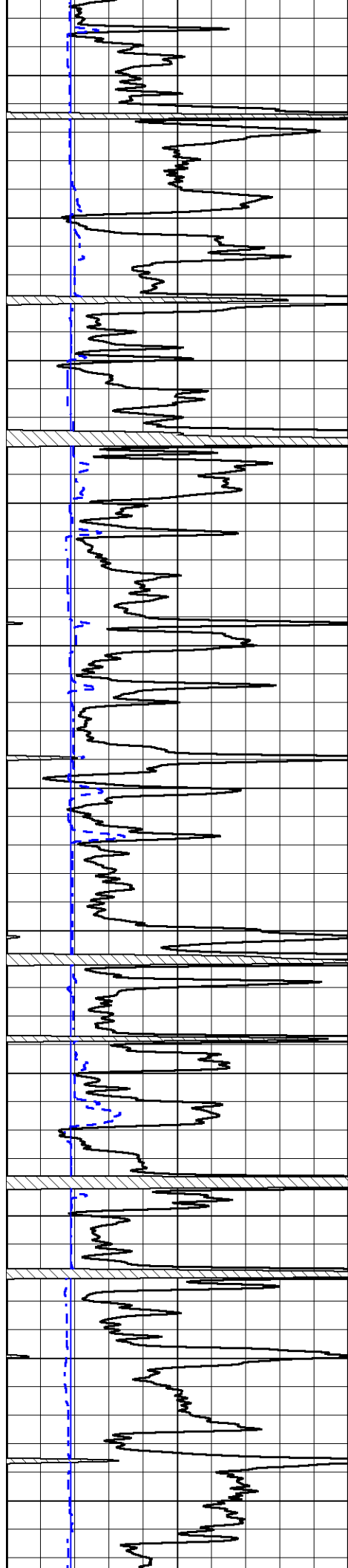
MAIN PASS

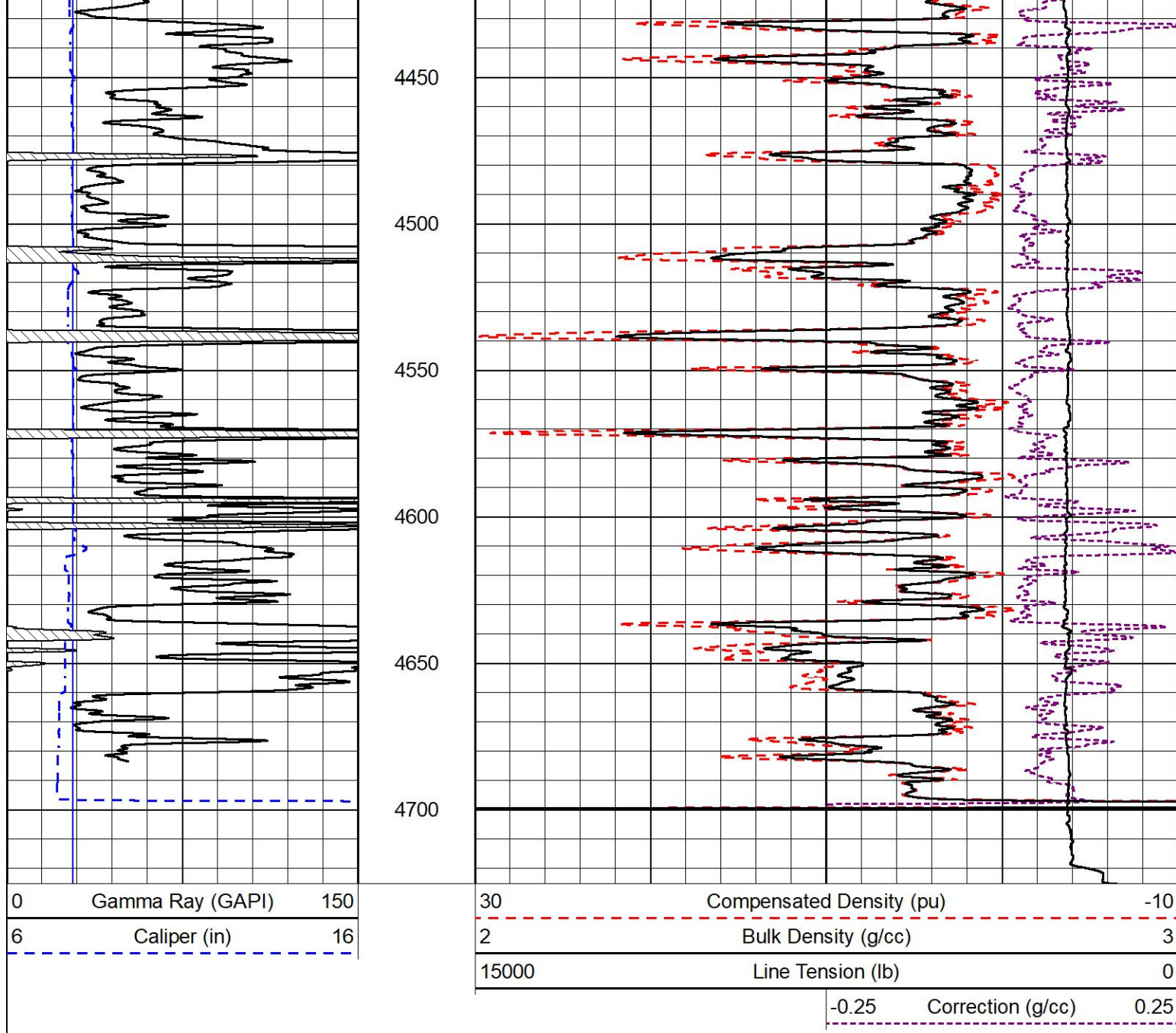
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Dataset Pathname stkml/pass4.2
Presentation Format _cdl
Dataset Creation Mon Aug 15 20:38:39 2022
Charted by Depth in Feet scaled 1:600

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

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25



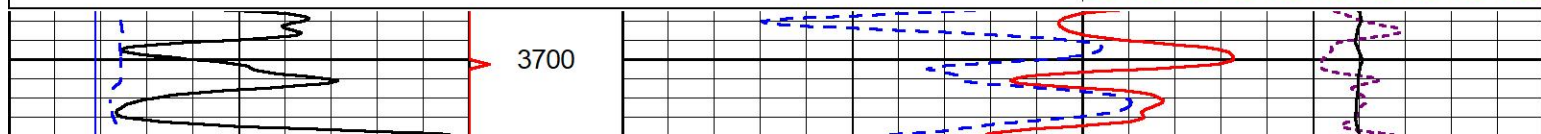
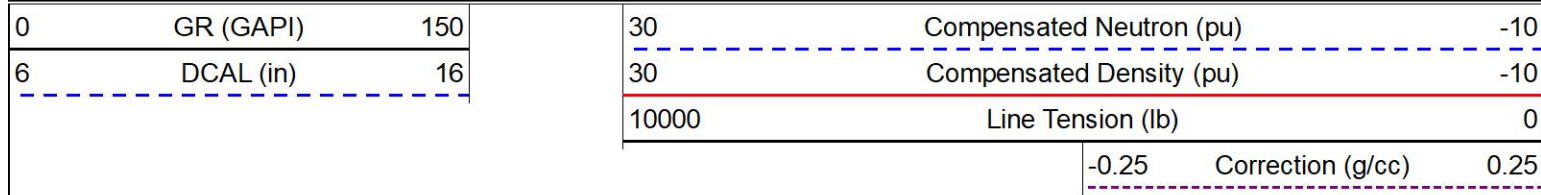


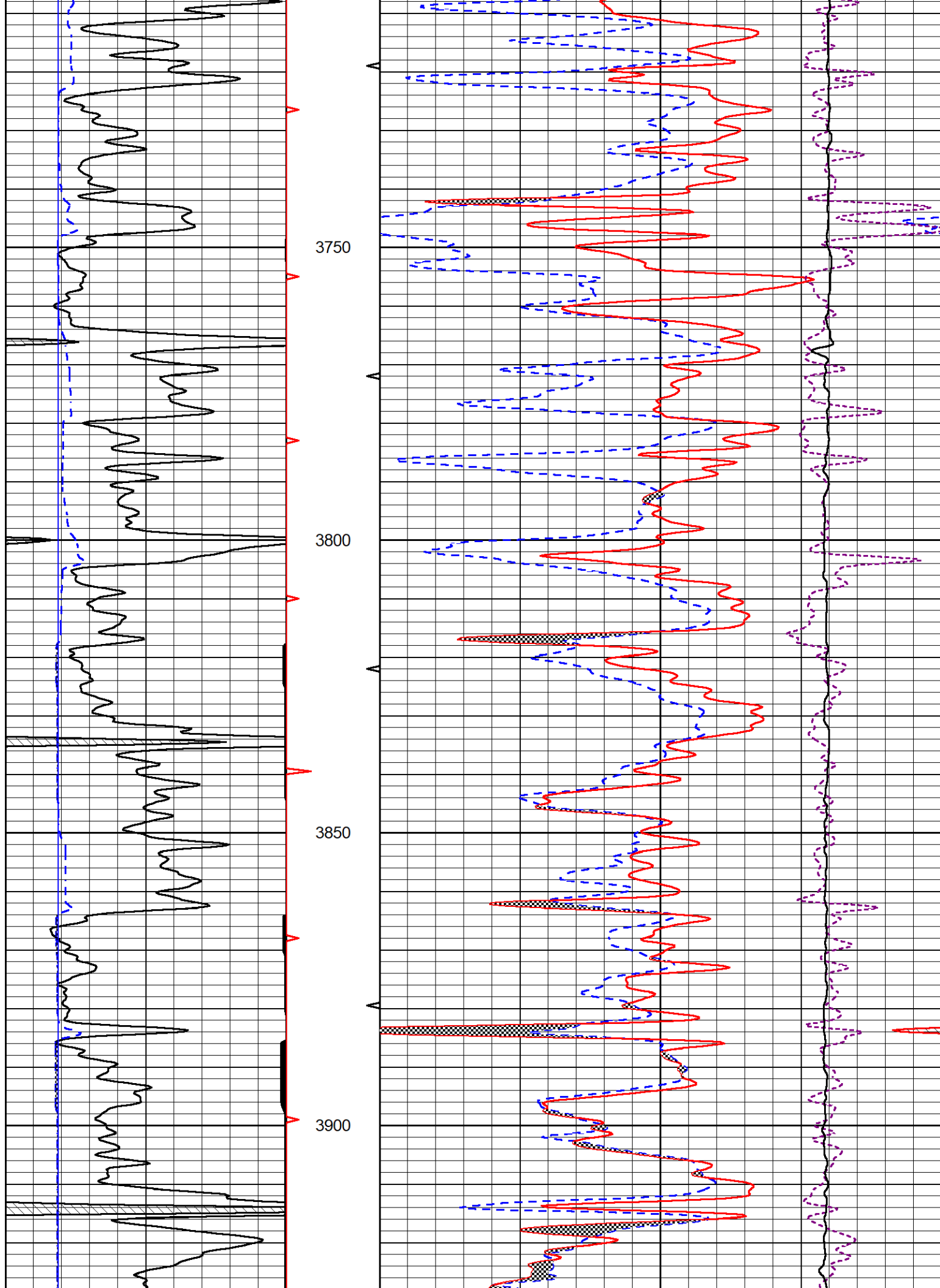


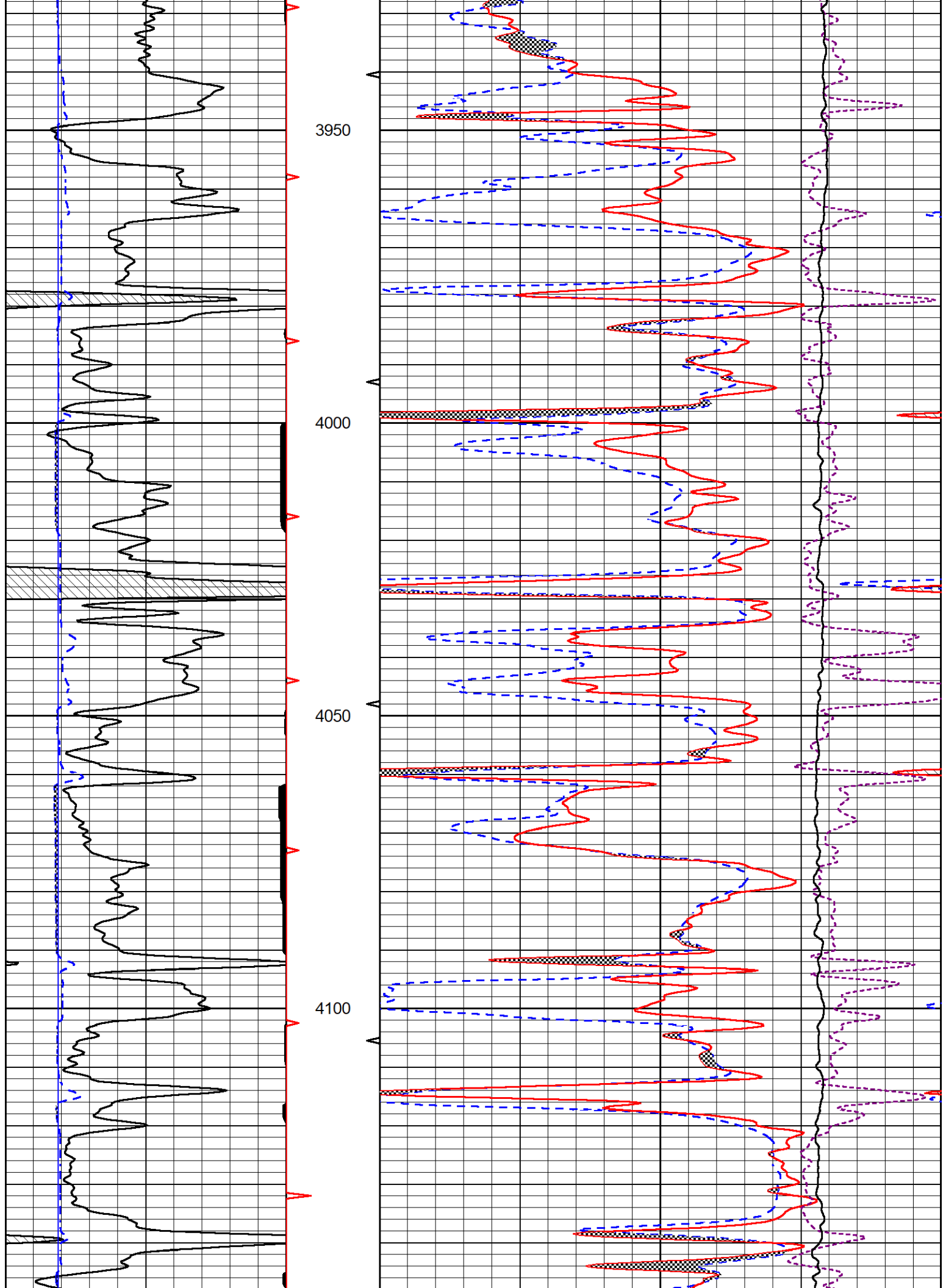
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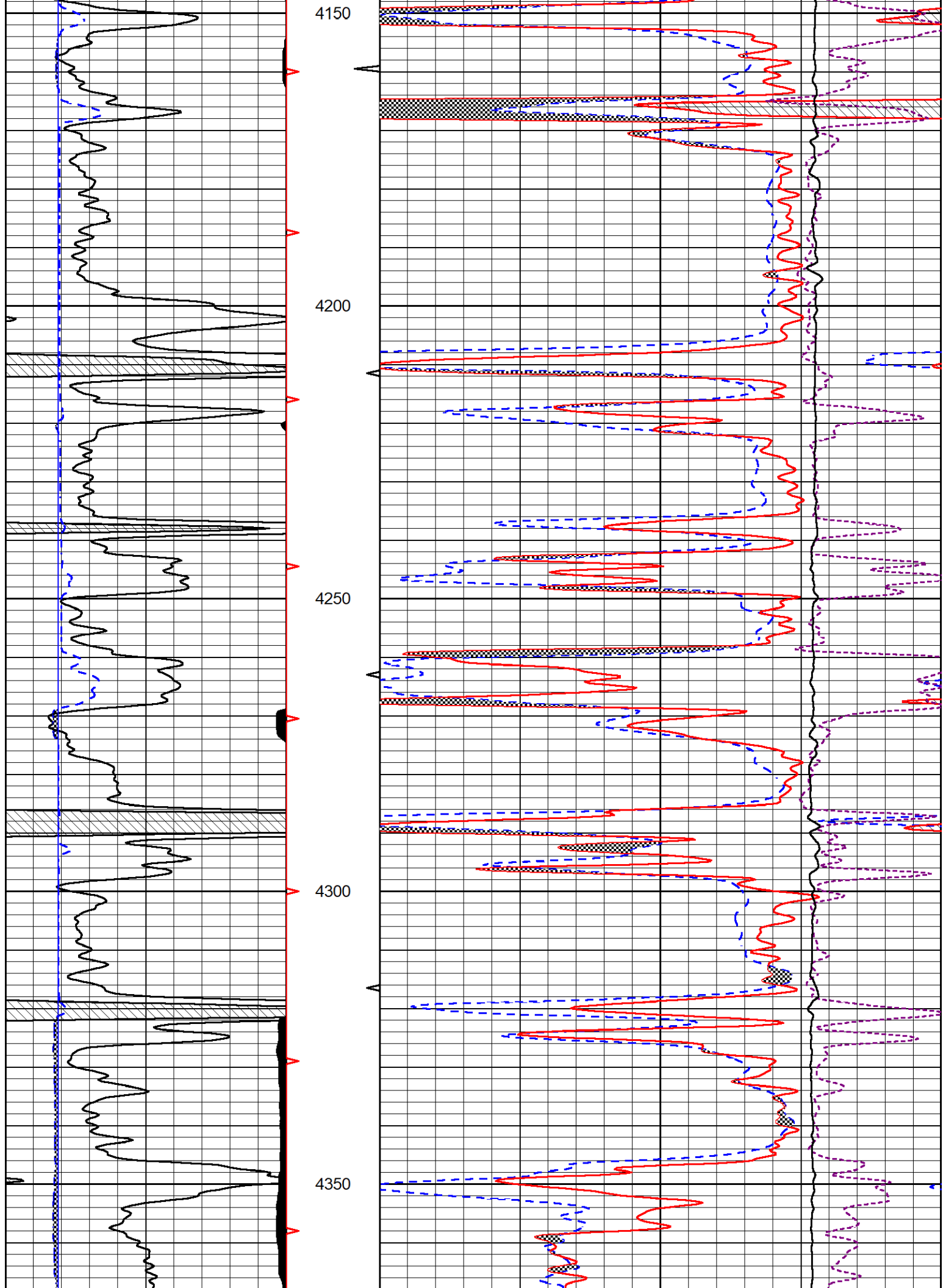
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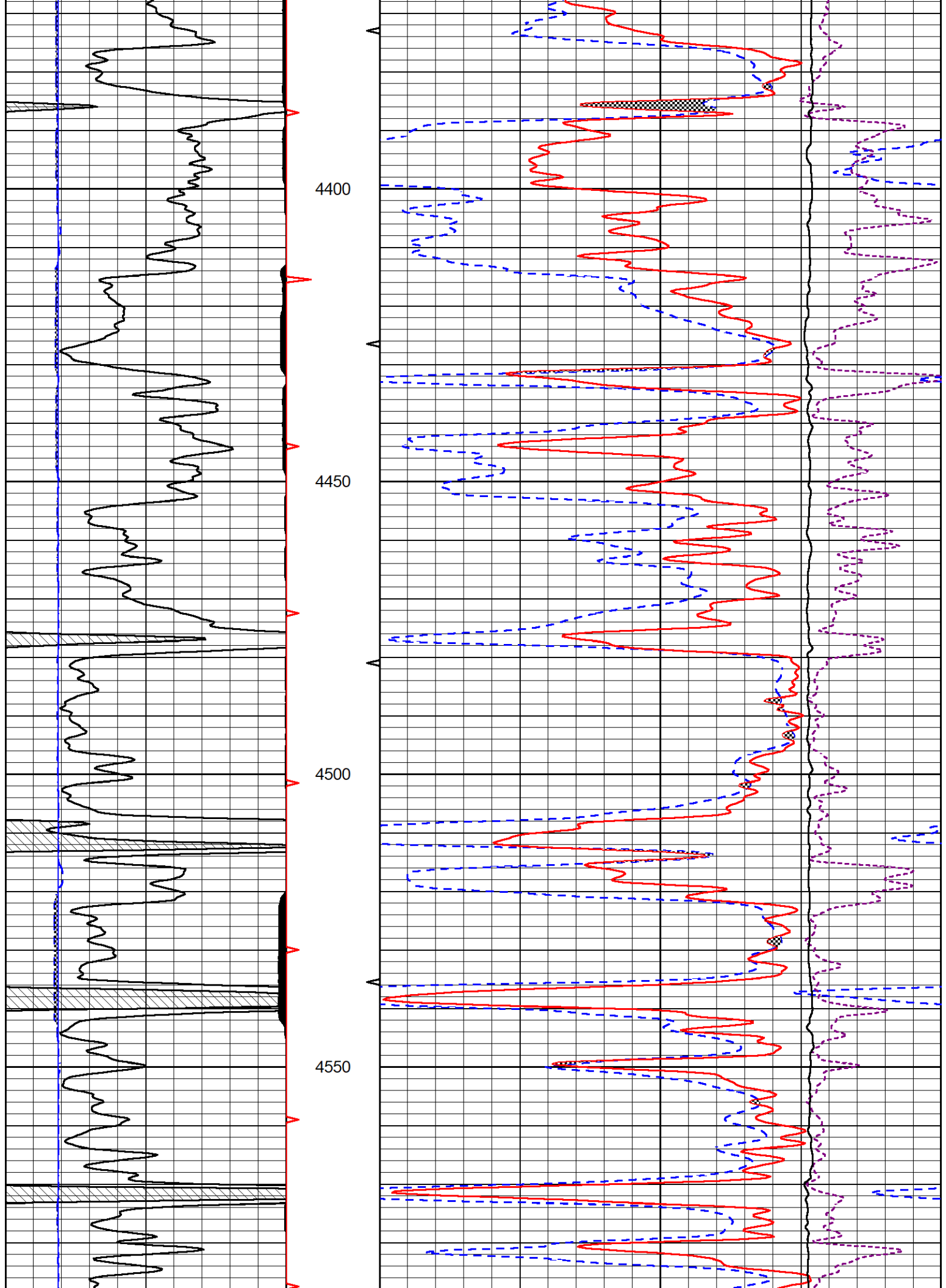
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 Dataset Creation Mon Aug 15 20:34:40 2022
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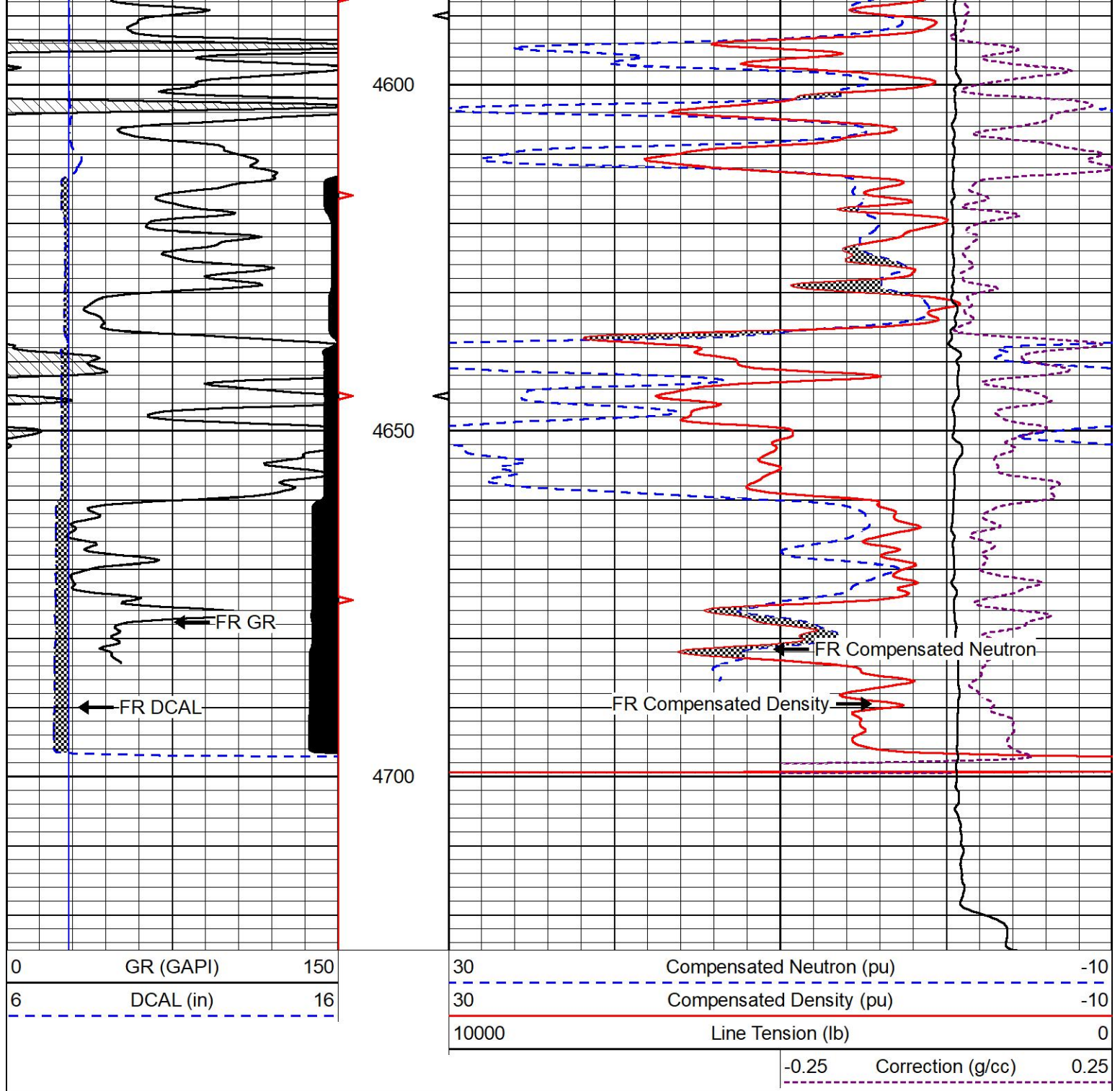








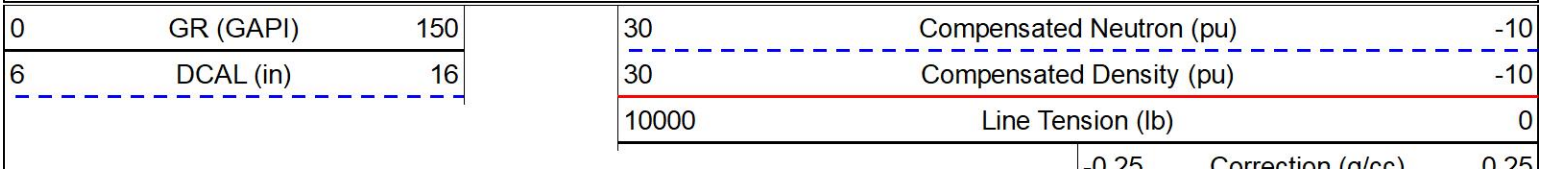


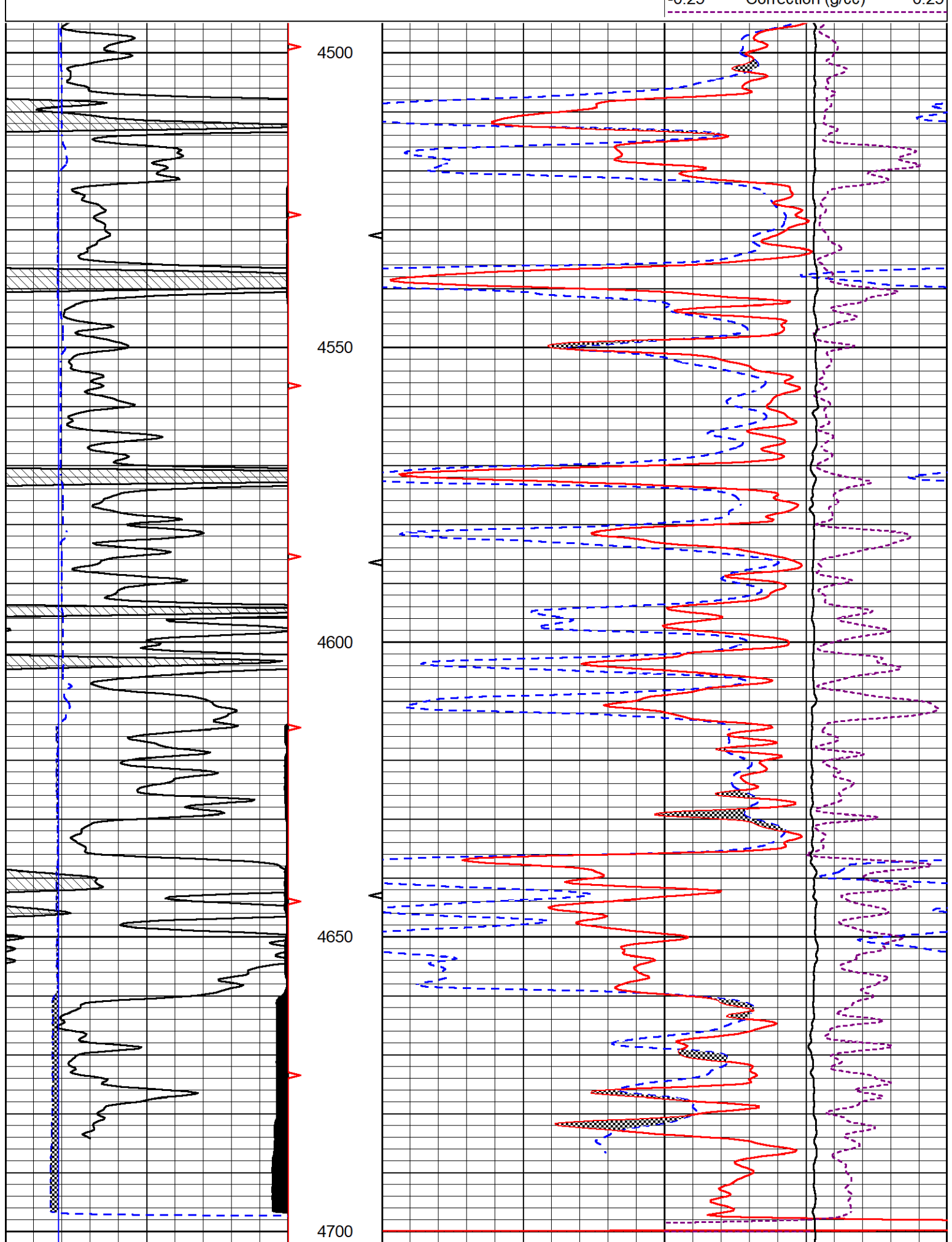


REPEAT SECTION

REPEAT PASS

Database File russell_johnson 14-1.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _CNDLS~1
 Dataset Creation Mon Aug 15 20:15:19 2022
 Charted by Depth in Feet scaled 1:240





Database File		russell_johnson 14-1.db		Calibration Report			
Dataset Pathname		stkml/pass4.10					
Dataset Creation		Mon Aug 15 20:11:54 2022					
Dual Induction Calibration Report							
Serial-Model: Surface Cal Performed:				505 HT-M&W Wed Feb 2 12:55:14 2022			
Readings		References		Results			
Loop:	Air	Loop	Air	Loop		m	b
Deep	167.000	835.000	0.000	255.800	mmho/m	0.480	-59.000
Medium	1348.000	1348.000	0.000	255.800	mmho/m	0.390	-56.000
Microlog Calibration Report							
Serial-Model: Performed:				401-PSI STKBL ML Mon Aug 1 06:22:24 2022			
Readings		References		Results			
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	15000.0000	-1.5000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	14700.0000	-0.8000
Caliper	1.0049	1.0846	5.5000	20.0000	in	135.0000	-131.2500
Compensated Density Calibration Report							
Serial-Model: Source #: Master Calibration Performed:				304-04-M&W 21170B Sun May 29 09:31:45 2022			
Master Calibration							
Density		Far Detector		Near Detector			
Magnesium	1.755 g/cc	6392.84		8538.69 cps			
Aluminum	2.685 g/cc	1184.69		5433.63 cps			
Spine Angle = 74.99		Density/Spine Ratio = 0.533					
Size		Reading					
Small Ring	4.00 in	1.15					
Large Ring	14.00 in	1.02					

Serial-Model:	210-M&W
Source #:	N-1238
Master Calibration Performed:	Fri Dec 3 09:16:24 2021

Master Calibration

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:	103	
Tool Model:	M&W	
Performed:	Fri Dec 3 12:13:24 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps



Company	Russell Oil, Inc.
Well	Johnson #14-1
Field	
County	Logan
State	Kansas