



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Gore Oil Company
 Well Lynd #9
 Field Zeman North
 County Trego
 State Kansas

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 Well Lynd #9
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Location: API #: 15-195-23132-00-00
 993 FSL & 867 FEL
 SEC 28 TWP 11S RGE 21W
 Permanent Datum Ground Level Elevation 2322
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 DIL
 MEL/BHCS
 Elevation
 K.B. 2330
 D.F.
 G.L. 2322

Date	3/10/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	4100						
Depth Logger	4101						
Bottom Logged Interval	4072						
Top Logged Interval	3250						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	4000						
Density	9.1						
Level	Full						
Max. Rec. Temp. F	117						
Operating Rig Time	4 Hours						
Equipment -- Location	P-108 HAYS						
Recorded By	J. Henrickson						
Witnessed By	Marc Downing						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	308	8.625	24	0	308
Two	7.875	308	TD				
Casing Record							

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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.

Riga Exit I70
 6 North to F, 1/4 West,
 North Into

Log Measured From: Kelly Bushing 8 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: J. Henrickson
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Marc Downing
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gore_lynd_9.db
 Dataset field/well/stackml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	114	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	400	50	Off	4101

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (306-06)	8.50	4.00	250.00
ML-PSI STKBL ML (402)	7.58		4.00	65.00		
MCAL MI MN	19.58 19.58 19.58					
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM 4.50

SP 0.20

Dataset: gore_lynd_9.db: field/well/stackml/pass4.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

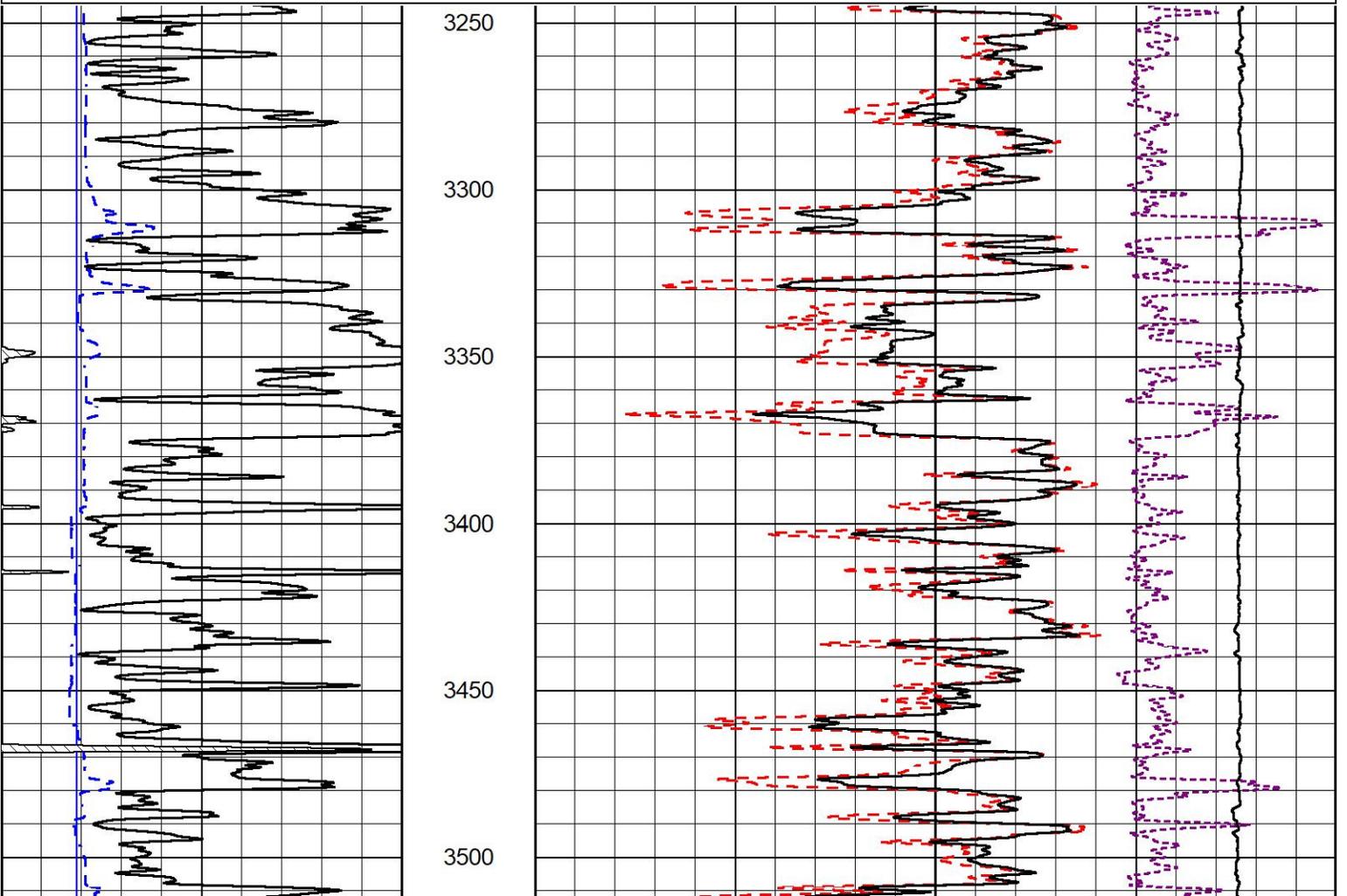
2" SCALE BULK DENSITY

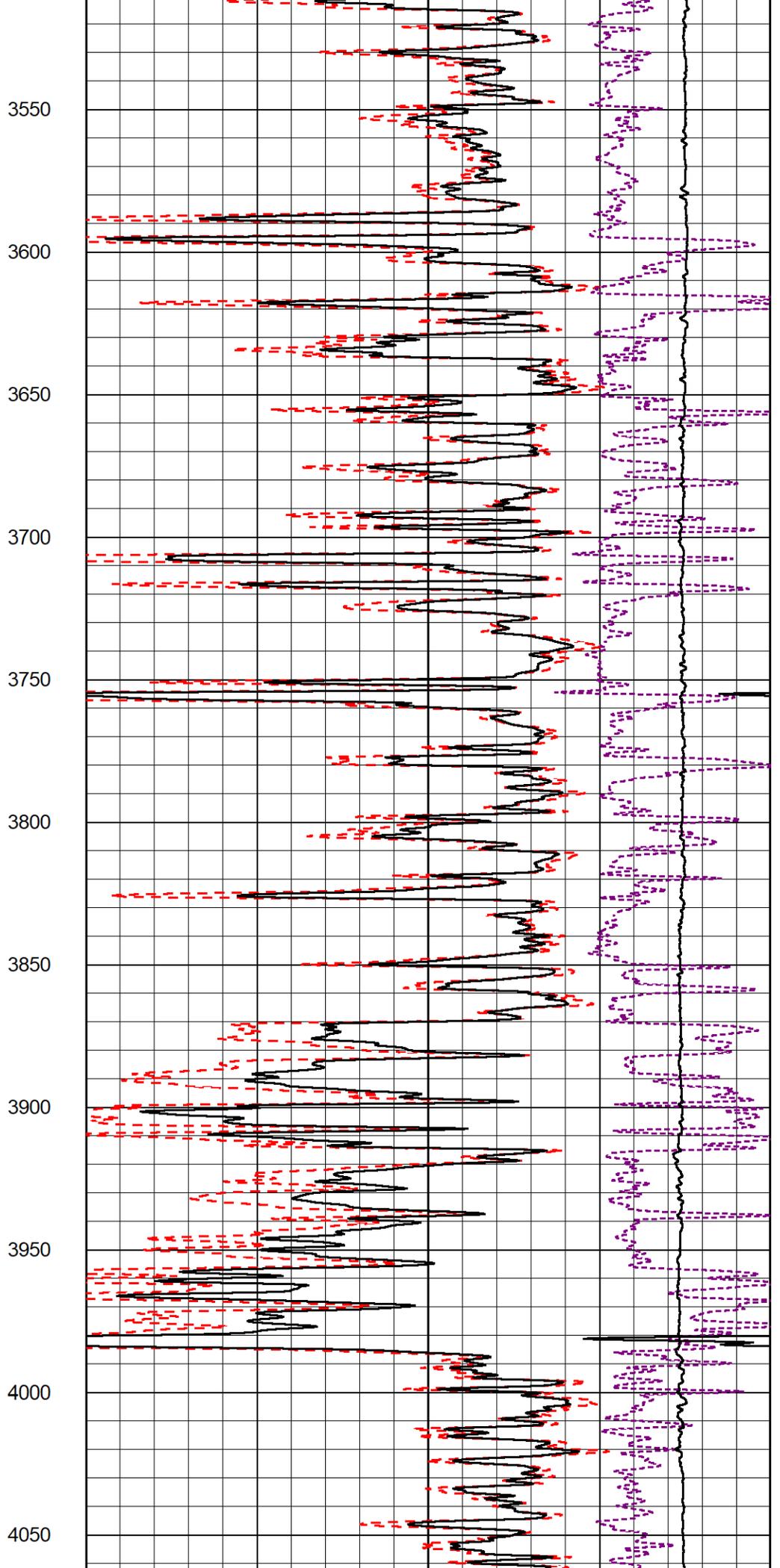
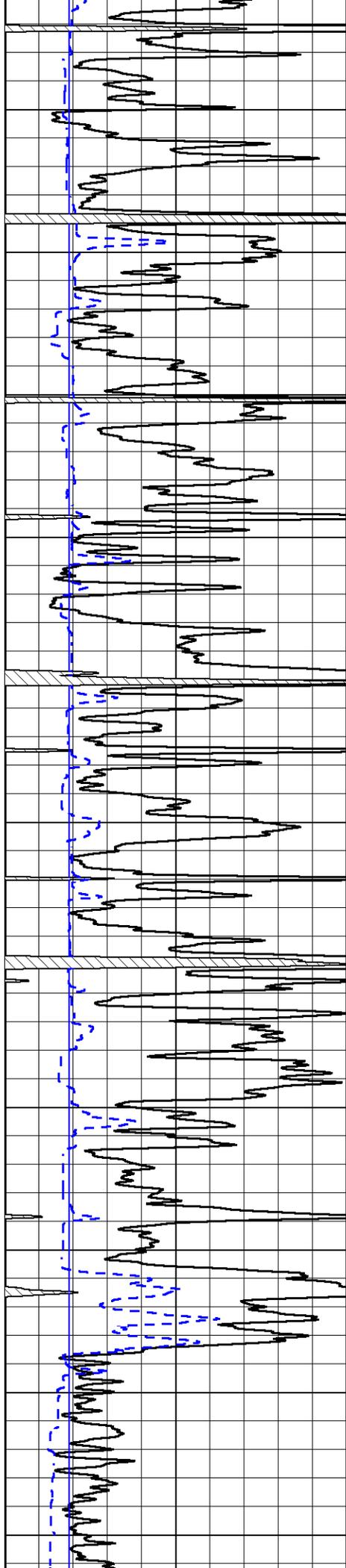
MAIN PASS

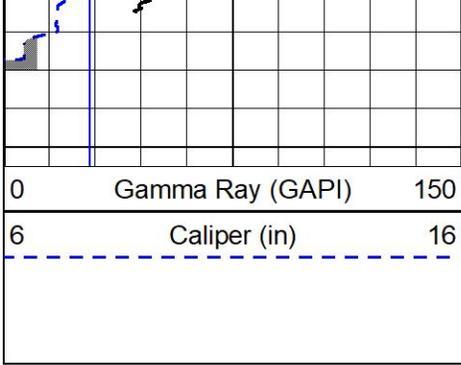
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 Dataset Pathname: stackml/pass3.1
 Presentation Format: _cdl
 Dataset Creation: Fri Mar 11 00:49:35 2022
 Charted by: Depth in Feet scaled 1:600

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

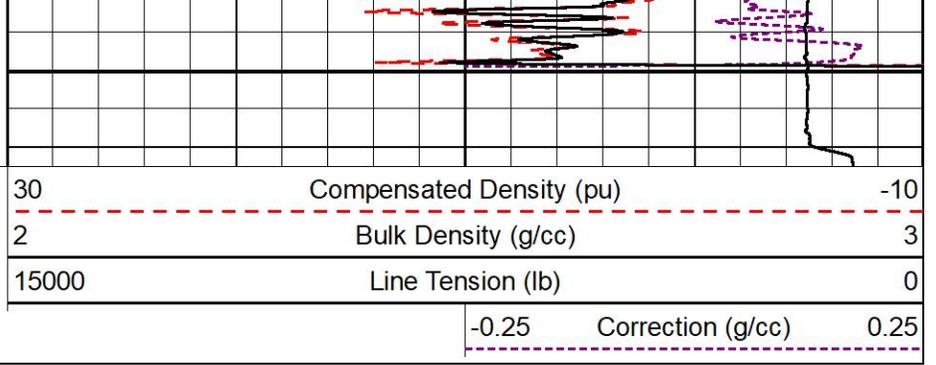
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
	-0.25 Correction (g/cc)	0.25







4100

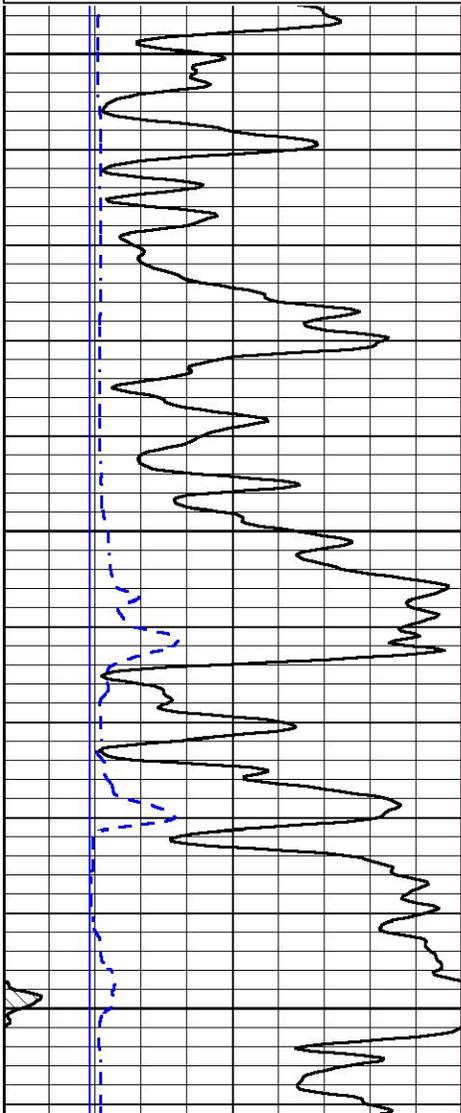
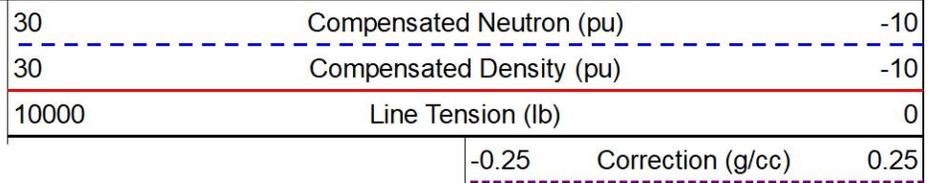
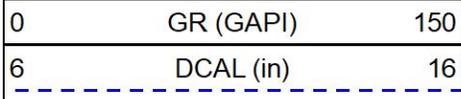


MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

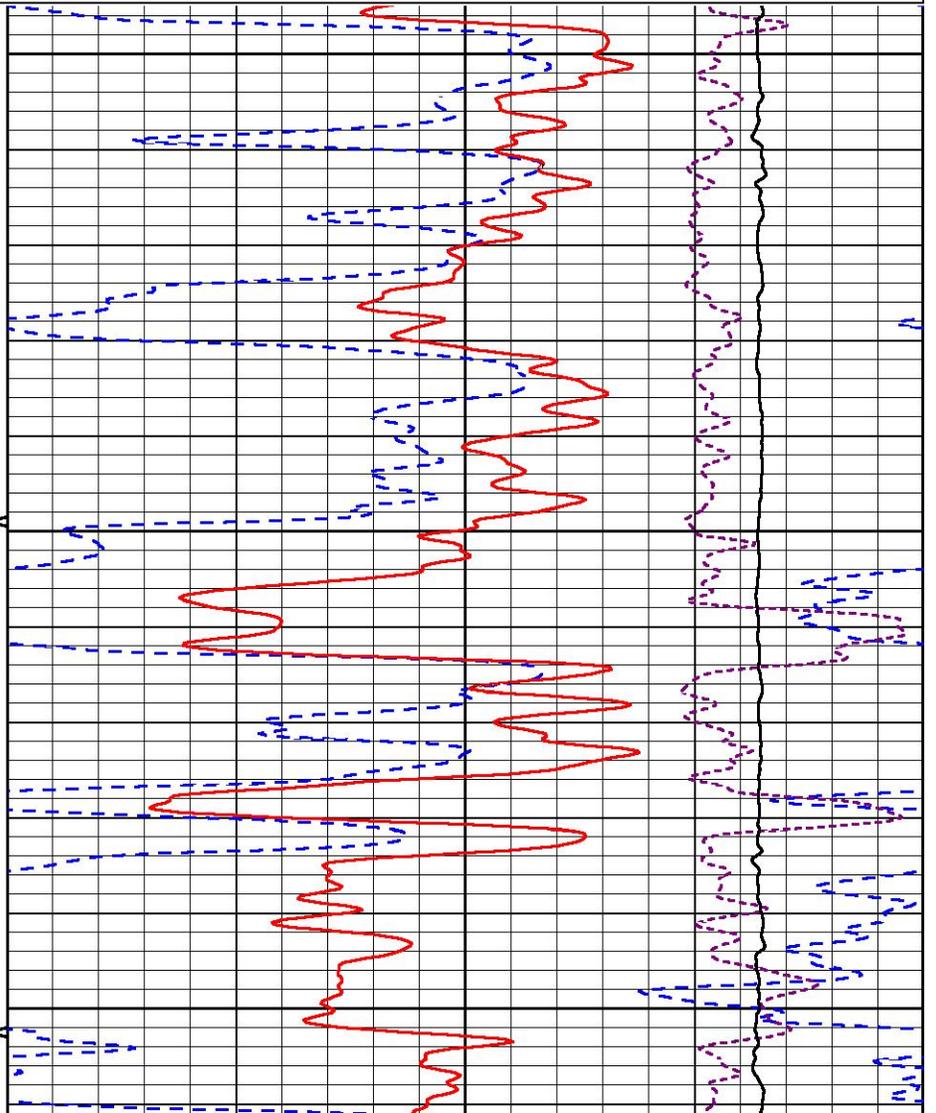
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 Dataset Pathname stackml/pass4.1
 Presentation Format _CNDLS~1
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 Charted by Depth in Feet scaled 1:240

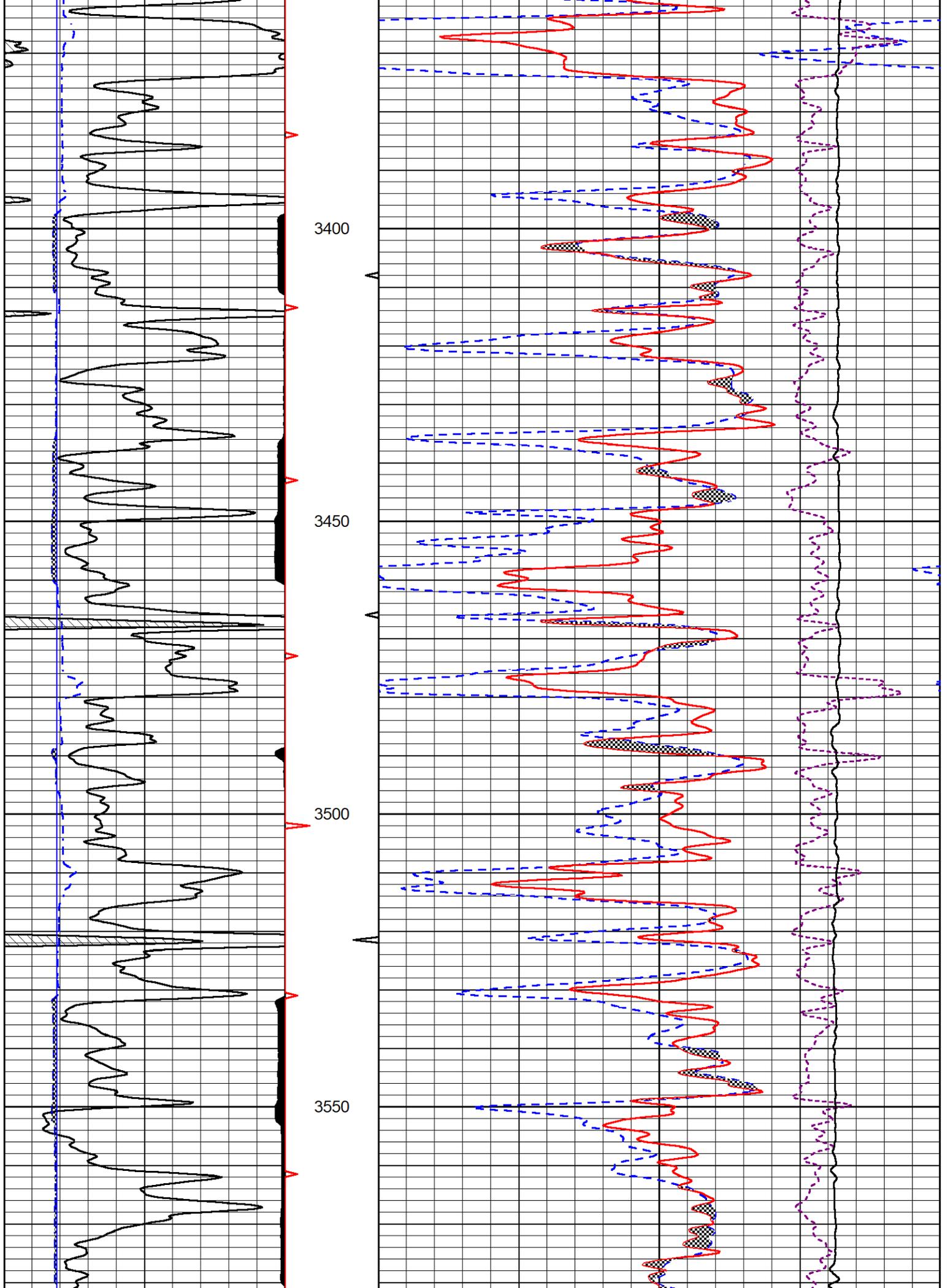


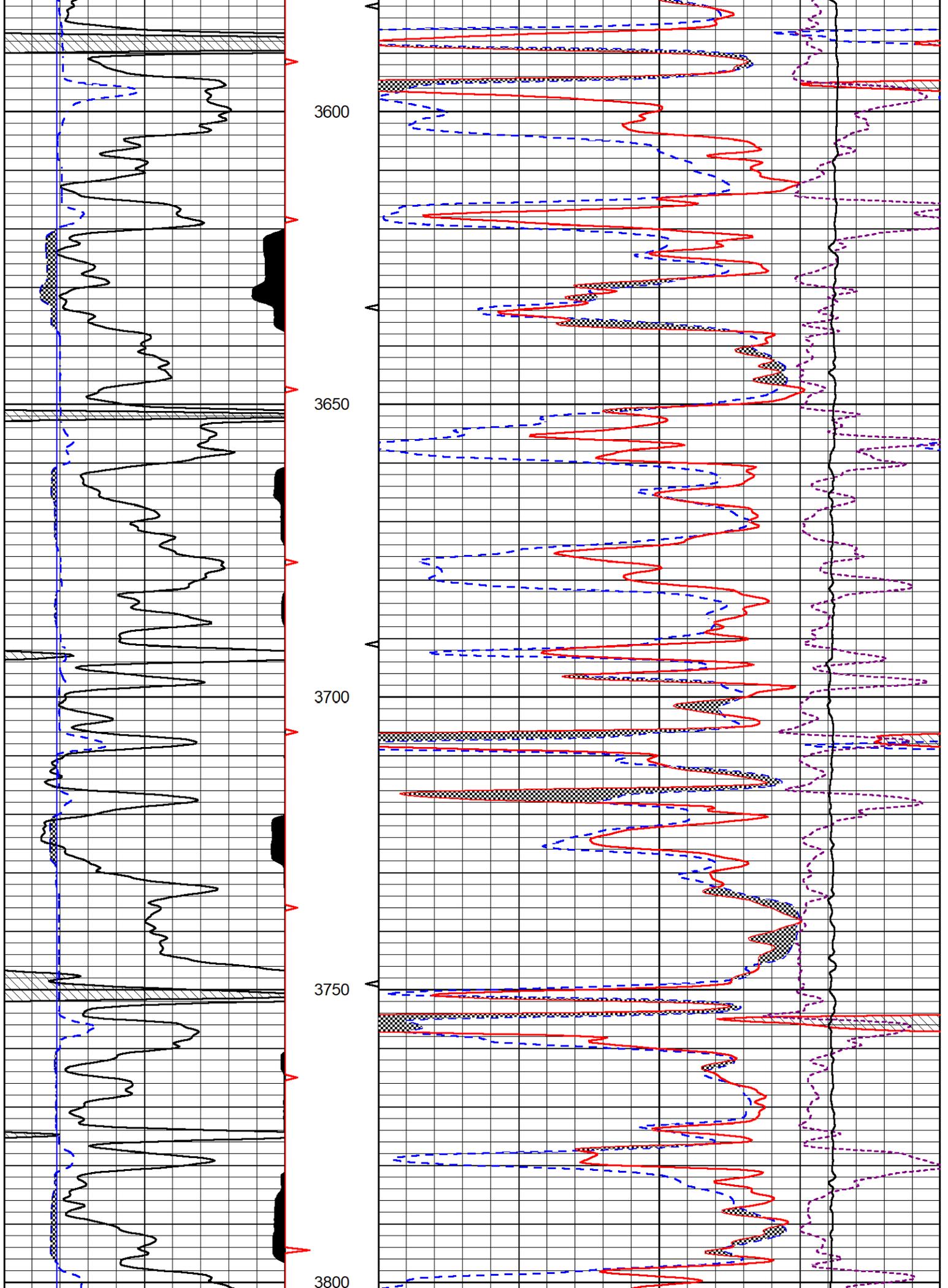
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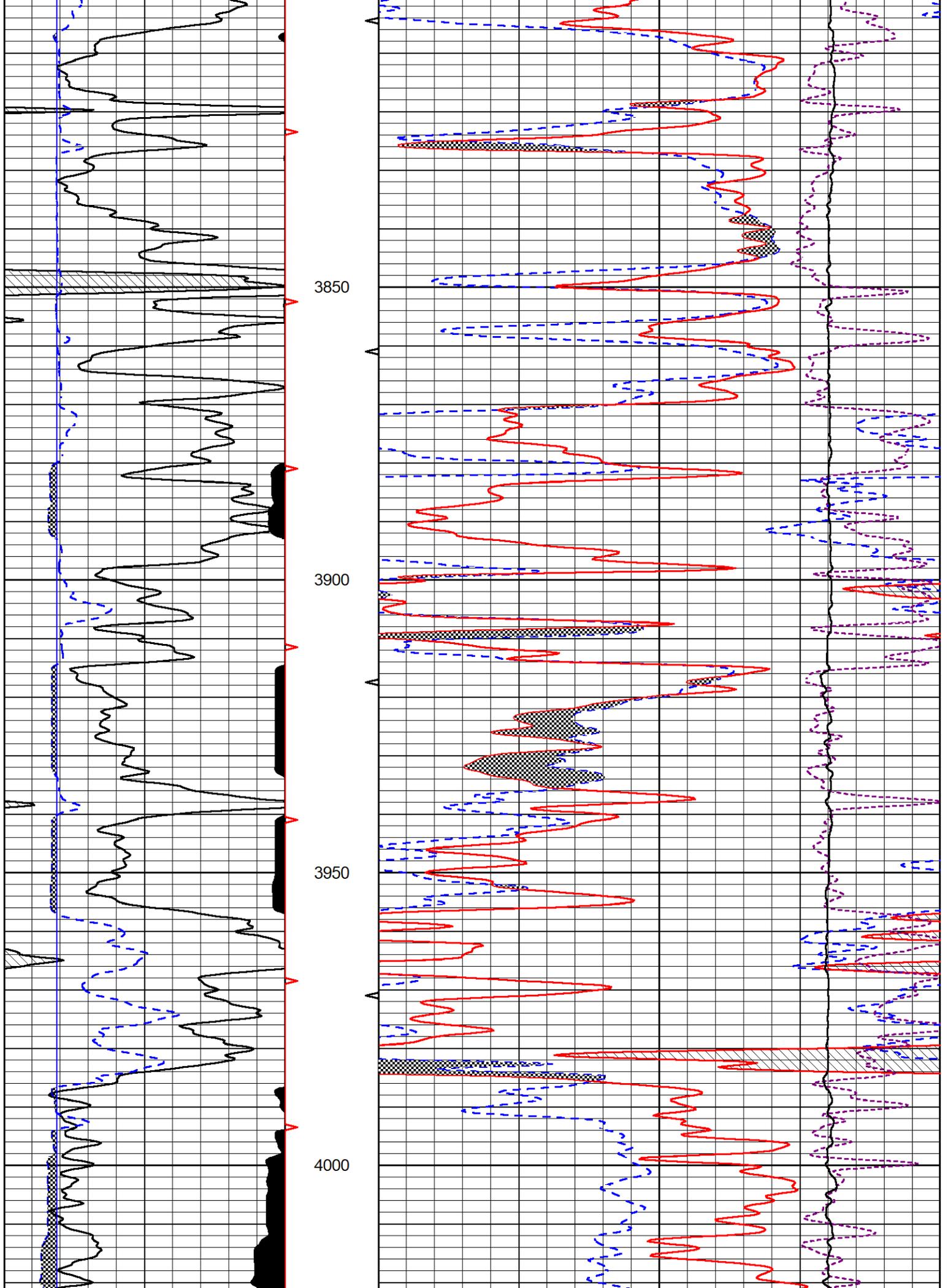
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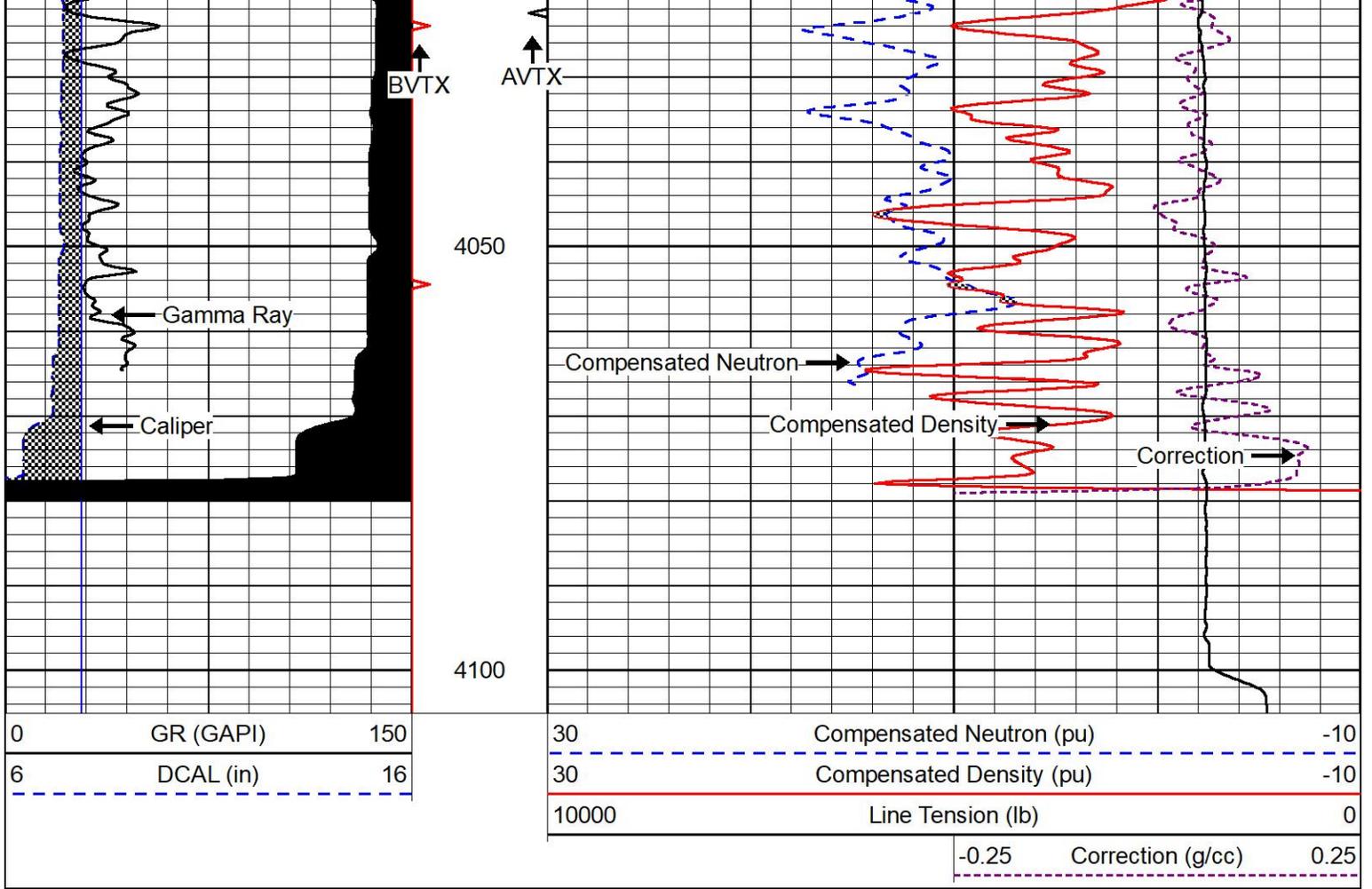
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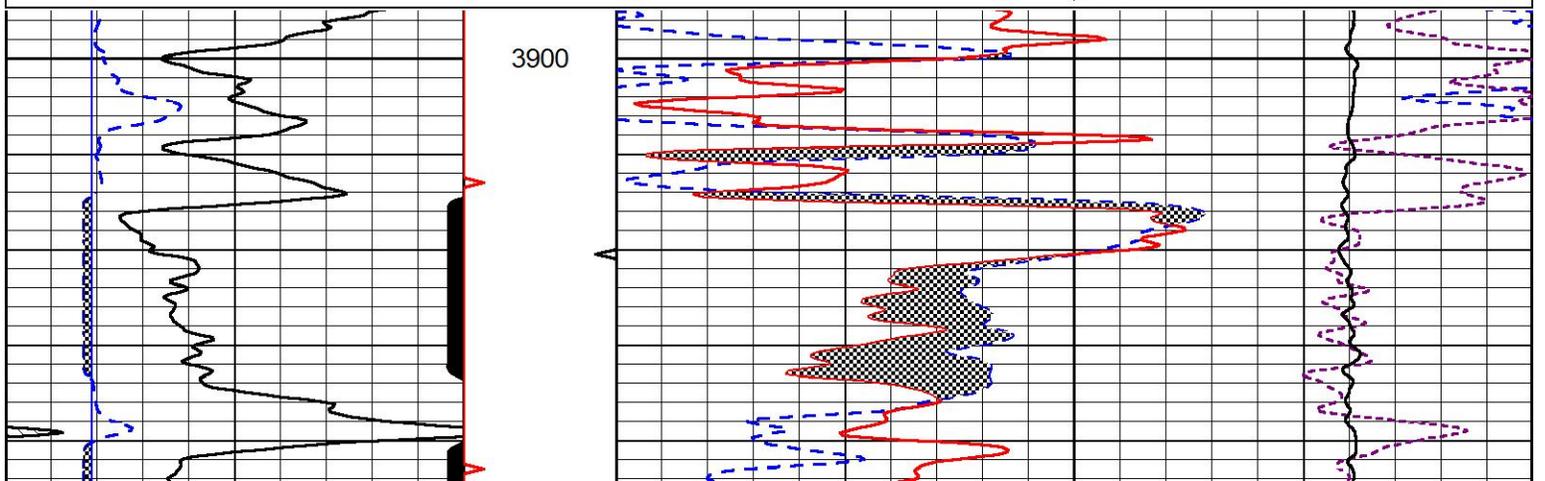
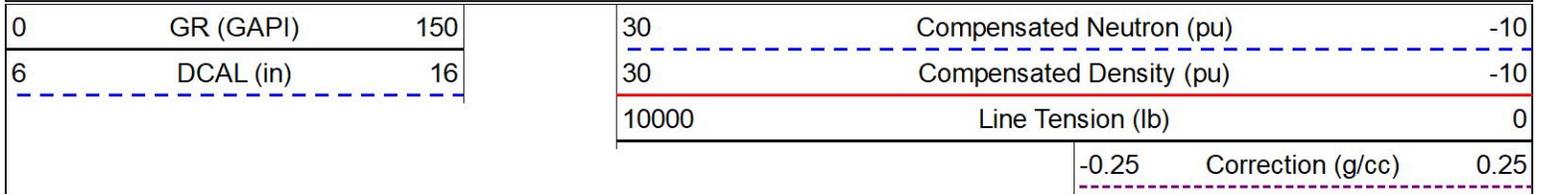


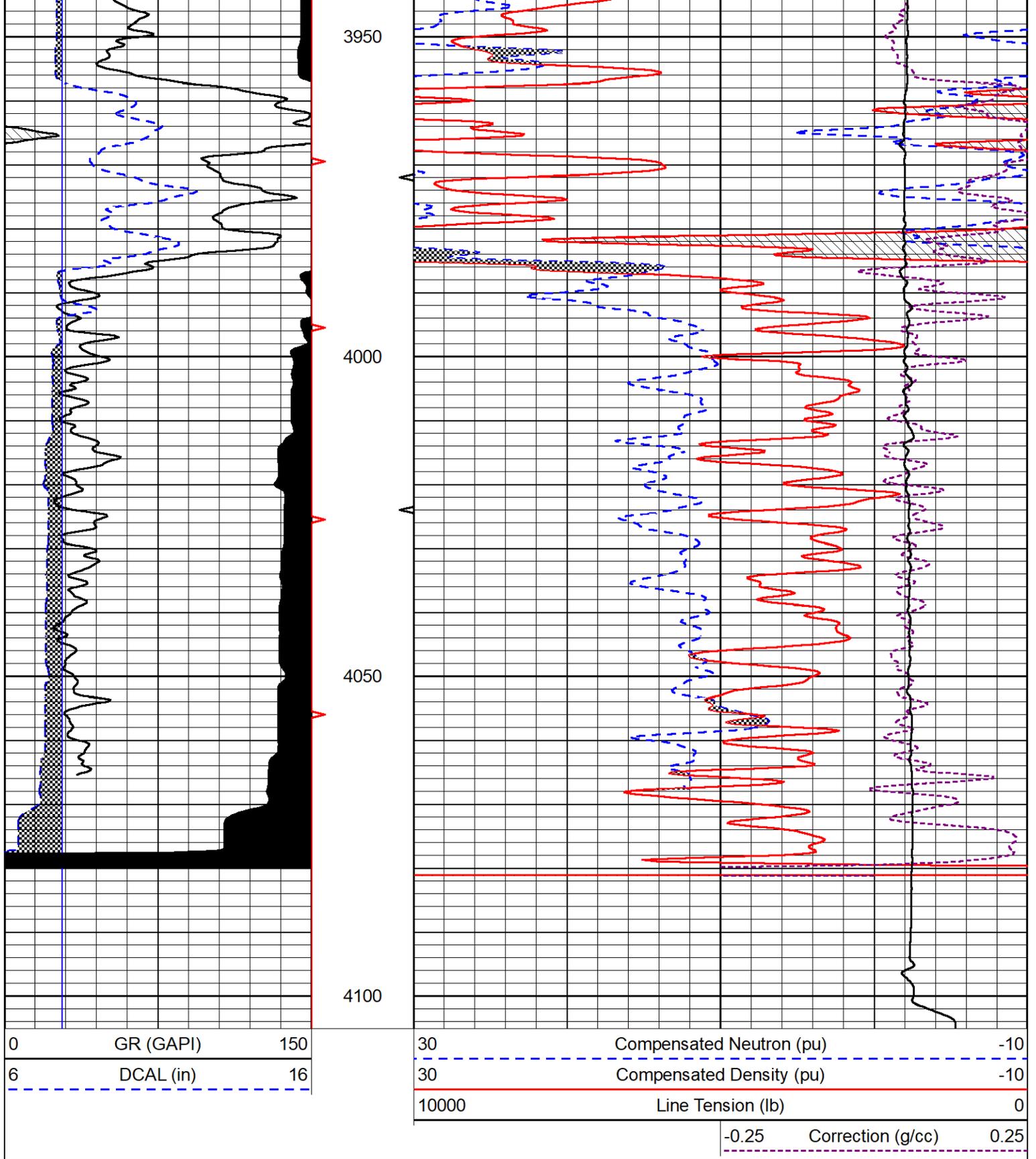
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File gore_lynd_9.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Fri Mar 11 00:48:56 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File: gore_lynd_9.db
 Dataset Pathname: stackml/pass4.1
 Dataset Creation: Fri Mar 11 00:50:20 2022

Dual Induction Calibration Report

Serial-Model: 504 HT-M&W
 Surface Cal Performed: Thu Dec 16 22:32:49 2021

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model: 402-PSI STKBL ML
 Performed: Thu Dec 16 22:29:48 2021

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	24000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

Serial-Model: 306-06-M&W
 Source #: 21170B
 Master Calibration Performed: Tue Dec 14 14:05:52 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5193.26	4968.12	cps
Aluminum	2.650	g/cc	962.25	3144.87	cps

Spine Angle = 74.82 Density/Spine Ratio = 0.512

	Size	Reading
Small Ring	4.00 in	1.02
Large Ring	14.00 in	1.11

Compensated Neutron Calibration Report

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	Gore Oil Company
Well	Lynd #9
Field	Zeman North
County	Trego
State	Kansas