



MIDWEST WIRELINE

**DUAL COMPENSATED
POROSITY**

Company Castle Resources Inc.
Well Mollhagen #2
Field Geneseo-Edwards
County Ellsworth
State Kansas

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Well Mollhagen #2
Field Geneseo-Edwards
County Ellsworth State Kansas

Location: API #: 15-053-21397-0-00
NE-SE-NW-NW
950 FNL & 4260 FEL
SEC 9 TWP 17S RGE 8W
Permanent Datum Ground Level Elevation
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL
MEL

Date	7/11/2024						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	3330						
Depth Logger	3332						
Bottom Logged Interval	3304						
Top Logged Interval	2200						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	8000						
Density	9.2						
Level	Full						
Max. Rec. Temp. F	109						
Operating Rig Time	3 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	Justin Trout						
Witnessed By	Jerry Green						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	222	8.625	23	0	222
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.

Ellsworth, Ks
South on Hwy 14 to T Rd
1/2 West South 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: Justin Trout	Operator:	Primary Witness: Jerry Green	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 (105)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (201-M&W)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-24)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (401)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (507)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: castle_mollhagen #2.db: field/well/STKML/pass3.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Calibration Report

Database File castle_mollhagen #2.db
 Dataset Pathname STKML/pass3.1
 Dataset Creation Fri Jul 12 16:57:27 2024

Dual Induction Calibration Report

Serial-Model: 507-M&W
 Surface Cal Performed:

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	68.570	638.100	0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191	0.000	255.800	mmho/m	0.450	-79.000

Microlog Calibration Report

Serial-Model: 401-PSIML
 Performed: Mon Sep 25 22:02:56 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	23500.0000	-2.2000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	27000.0000	-0.5000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.1500

Compensated Density Calibration Report

Serial-Model: 305-24-M&W
 Source / Verifier: 20762B / 2ci
 Master Calibration Performed: Tue Feb 6 18:43:03 2024
 Before Survey Verification Performed:
 After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.680	g/cc	5028.88	5761.57	cps
Aluminum	2.560	g/cc	1122.37	3952.02	cps
Spine Angle = 75.89			Density/Spine Ratio = 0.569		
	Size		Reading		
Small Ring	4.00	in	1.74		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial Number: 201-M&W
 Tool Model: M&W

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

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	
3)	Short Space Long Space	cps cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 105
 Tool Model: M&W
 Performed: Mon Aug 7 20:46:01 2023

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
 Calibrator Reading: 637.0 cps

Sensitivity: 0.6000 GAPI/cps

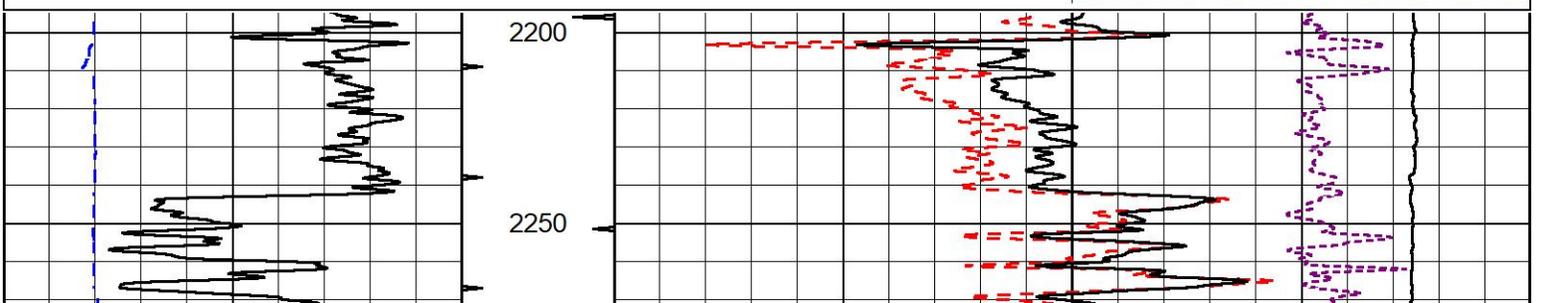


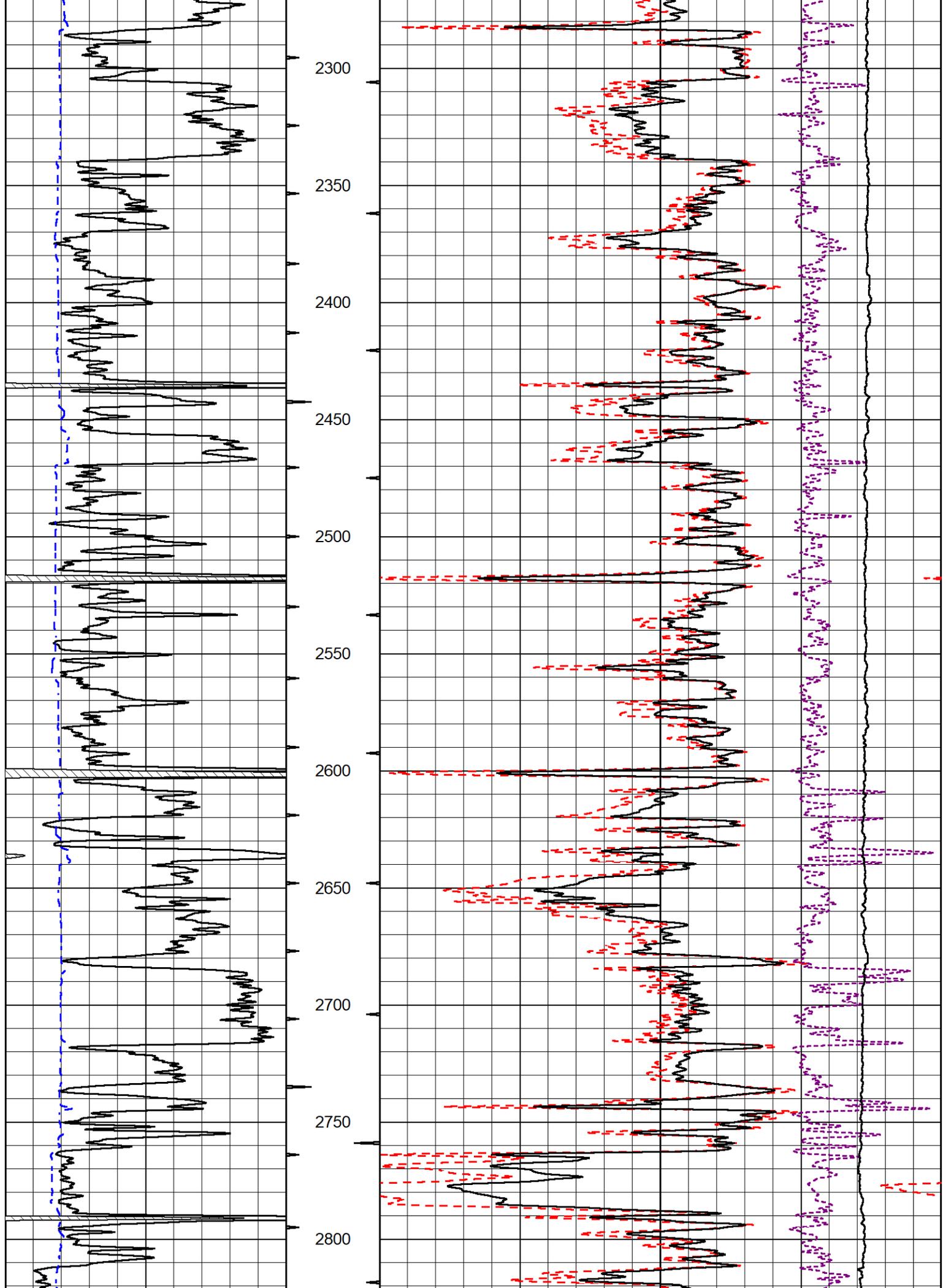
2" SCALE BULK DENSITY

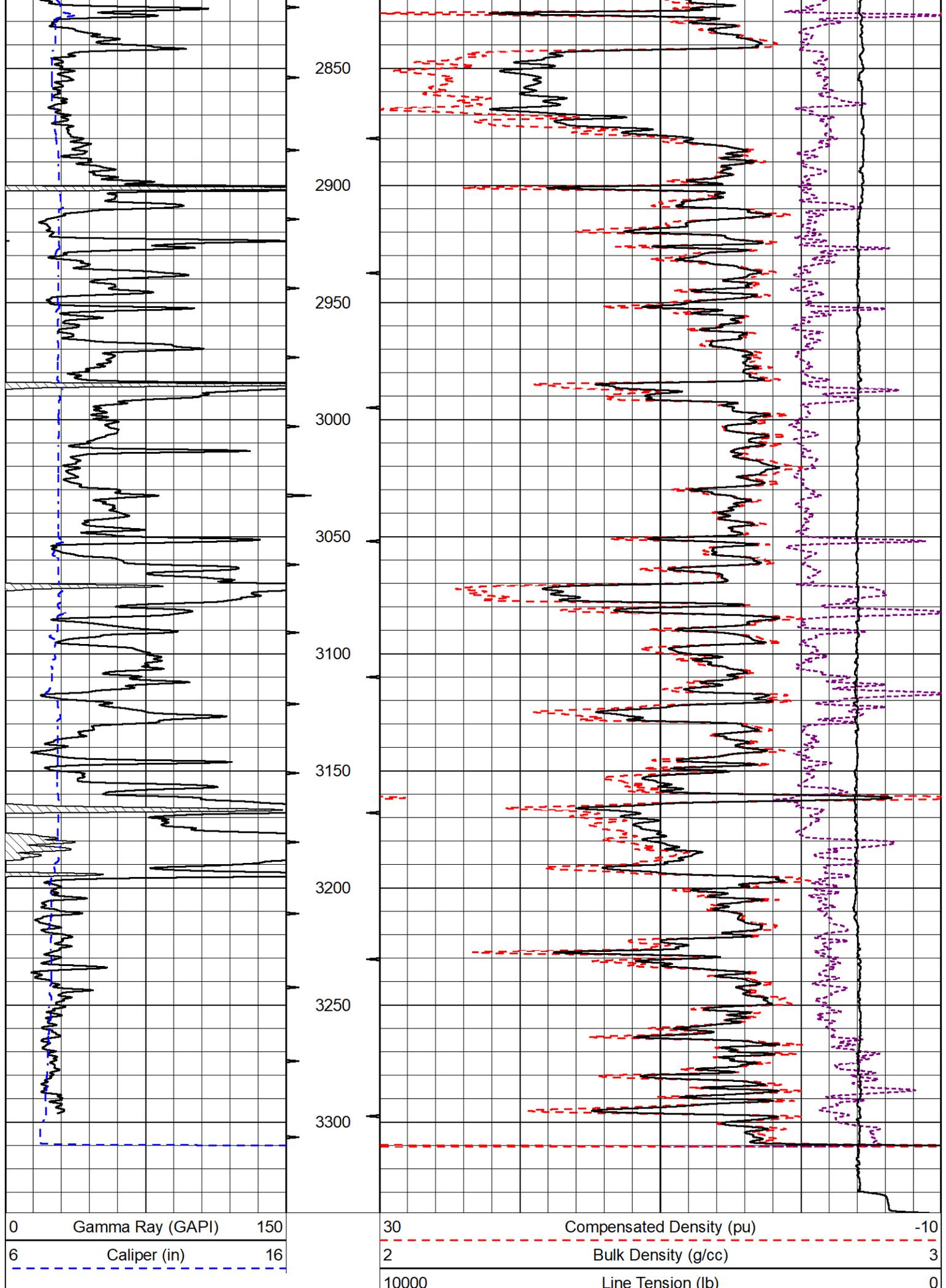
MAIN PASS

Database File castle_mollhagen #2.db
 Dataset Pathname STKML/pass3.2
 Presentation Format _cdl
 Dataset Creation Fri Jul 12 16:48:00 2024
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	30	Compensated Density (pu)	-10
6	Caliper (in)	16	2	Bulk Density (g/cc)	3
			10000	Line Tension (lb)	0
				-0.25 Correction (g/cc)	0.25









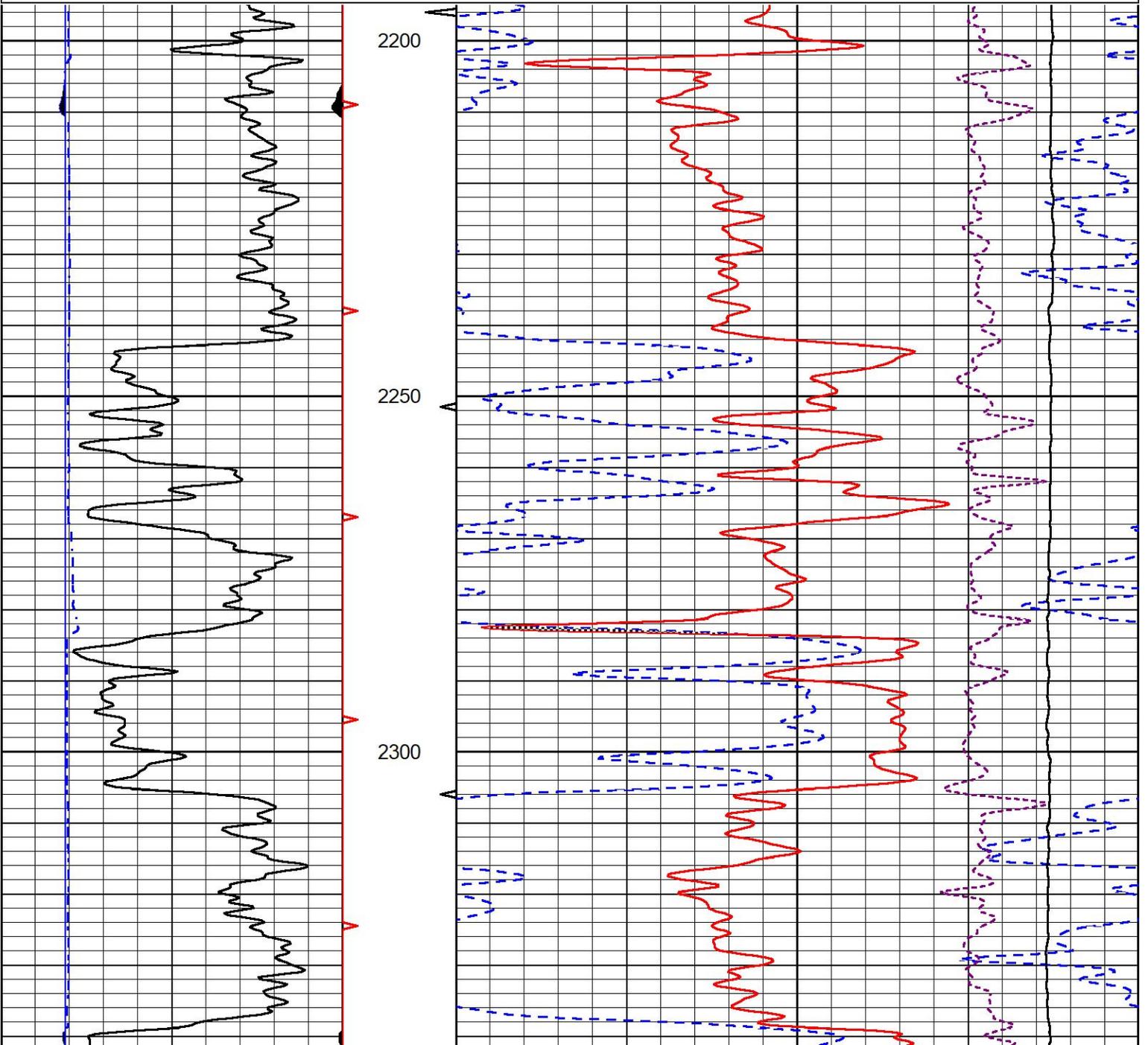
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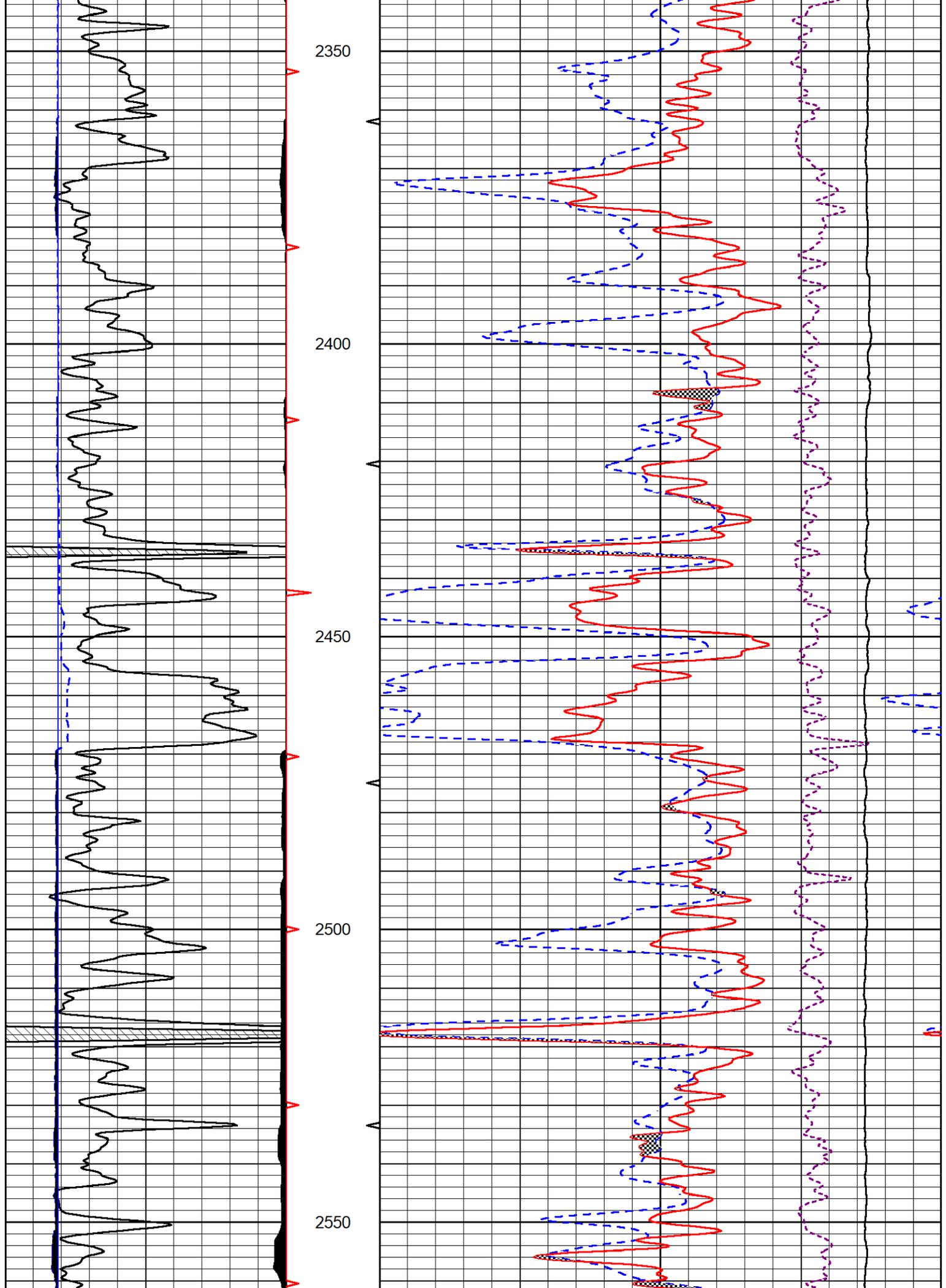
MAIN PASS

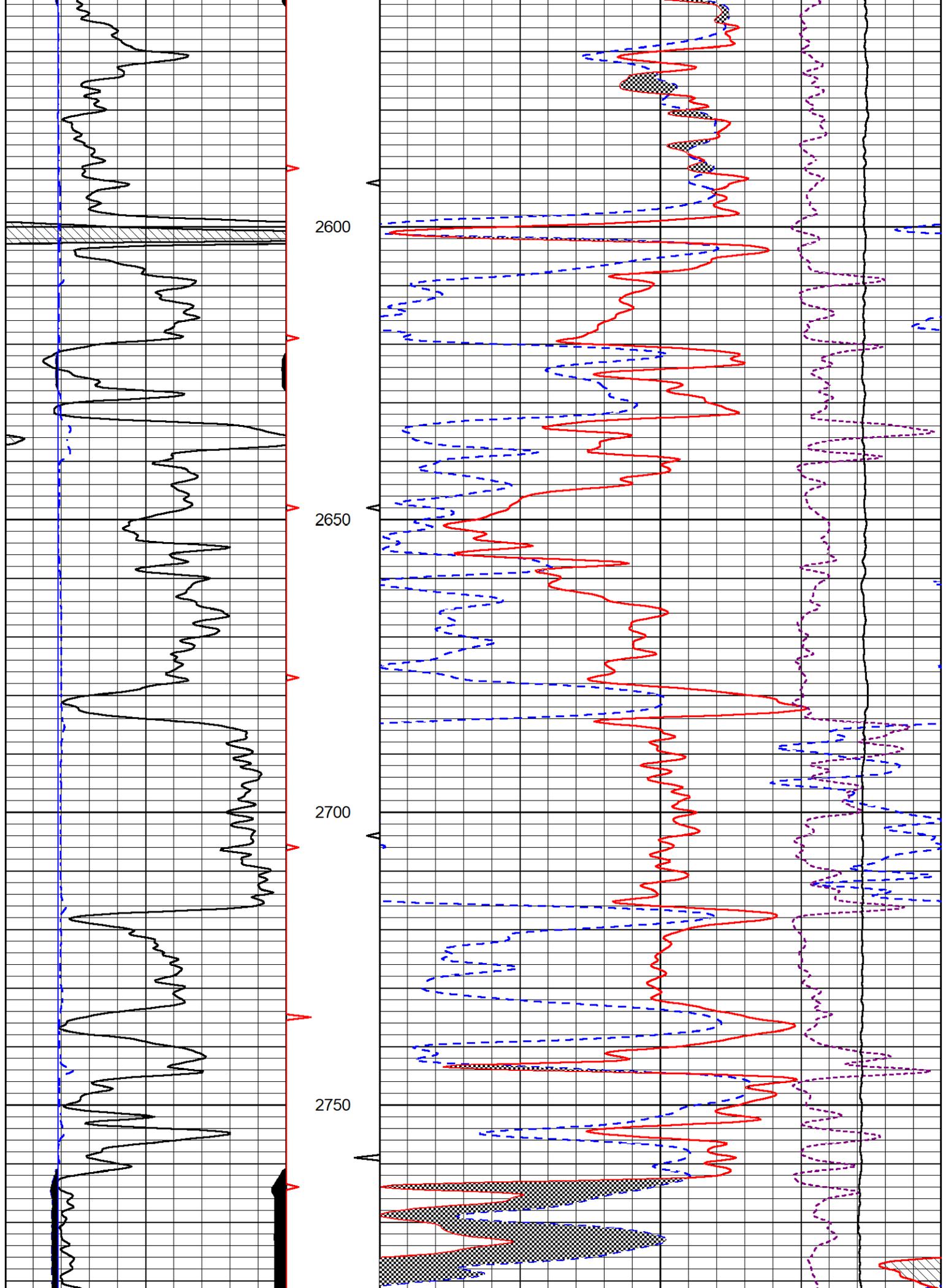
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 Dataset Pathname STKML/pass3.1
 Presentation Format _CNDLS~1
 Dataset Creation Fri Jul 12 16:57:27 2024
 Charted by Depth in Feet scaled 1:240

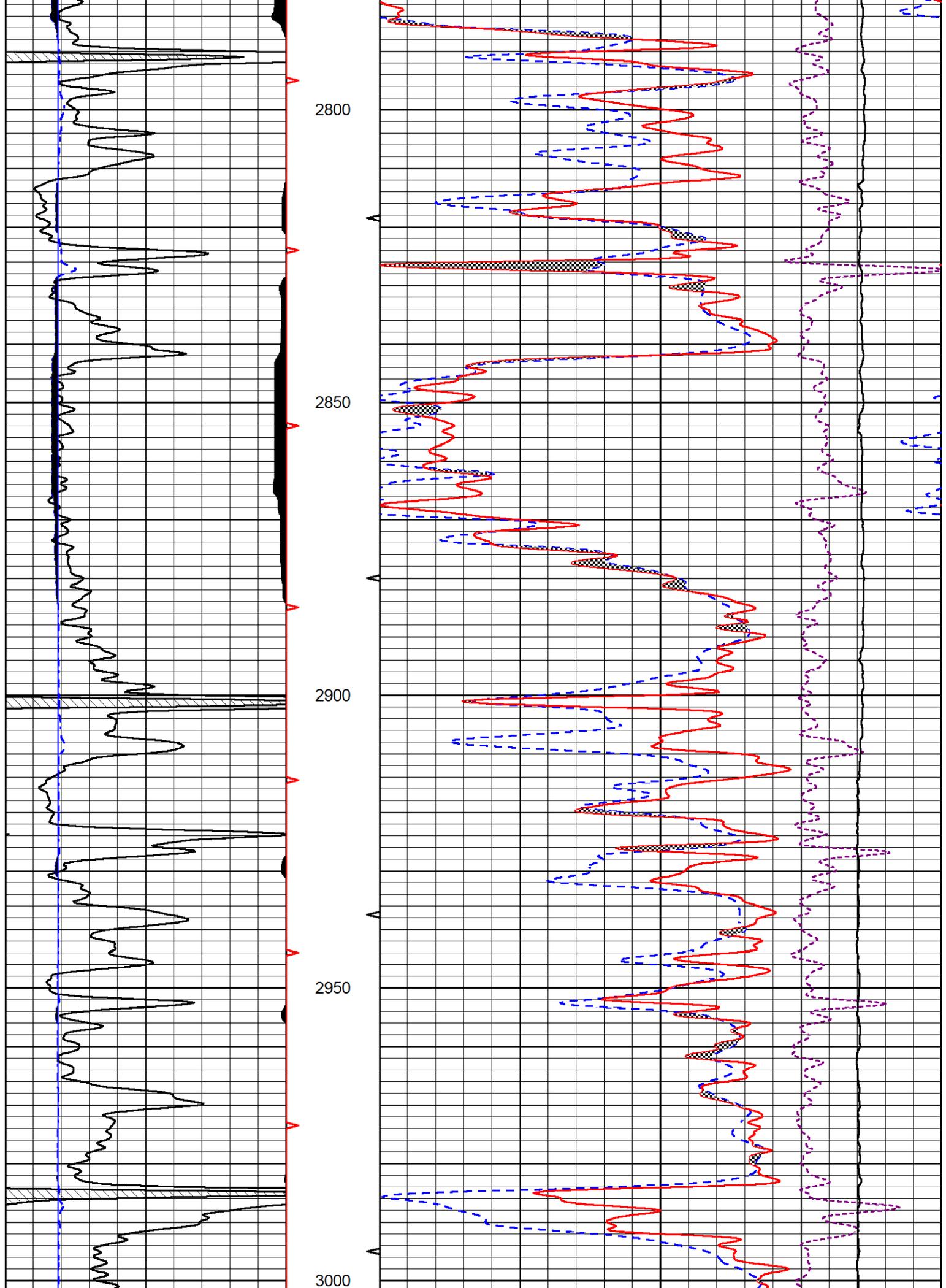
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	DCAL (in)	7.875

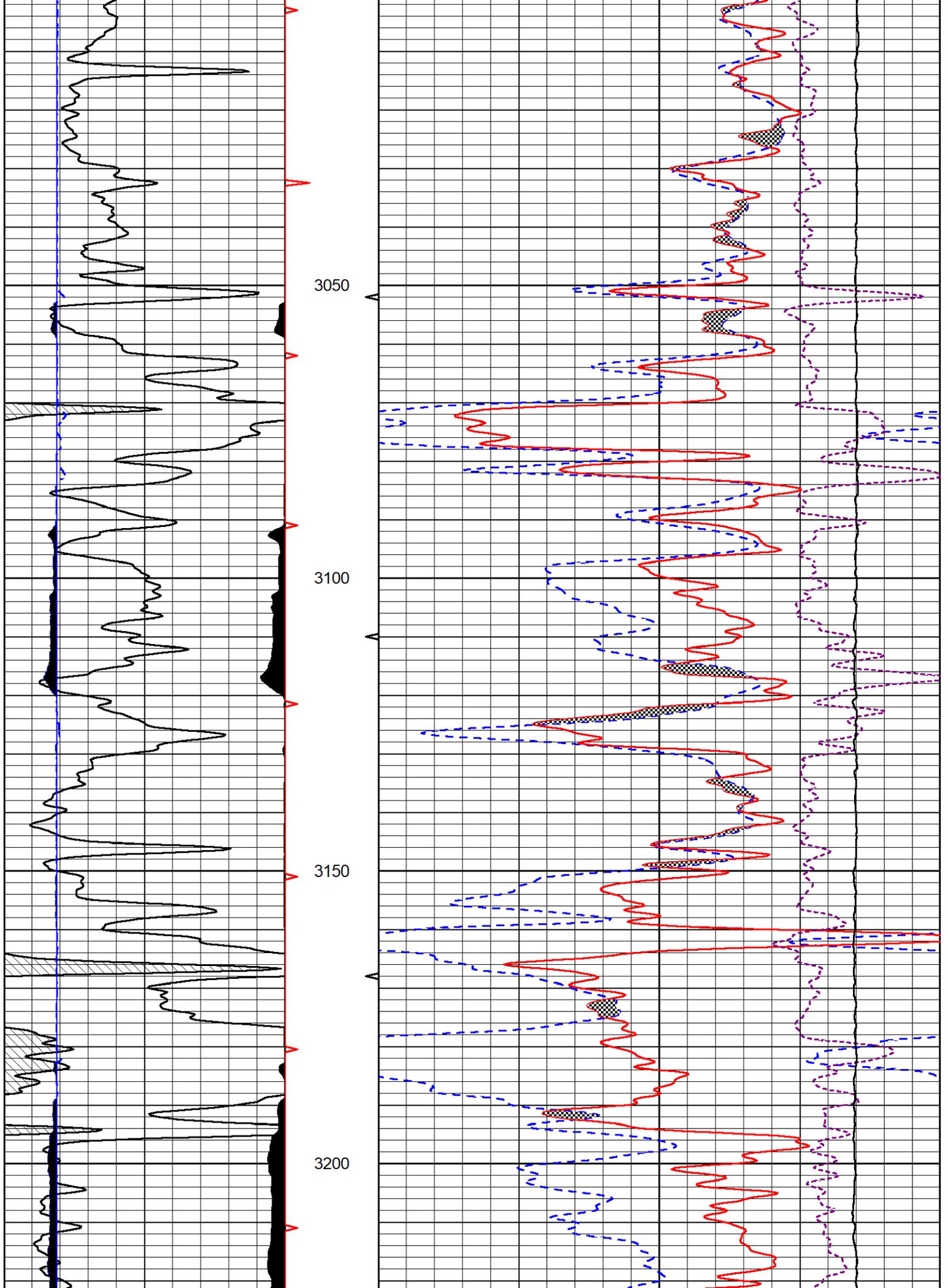
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0

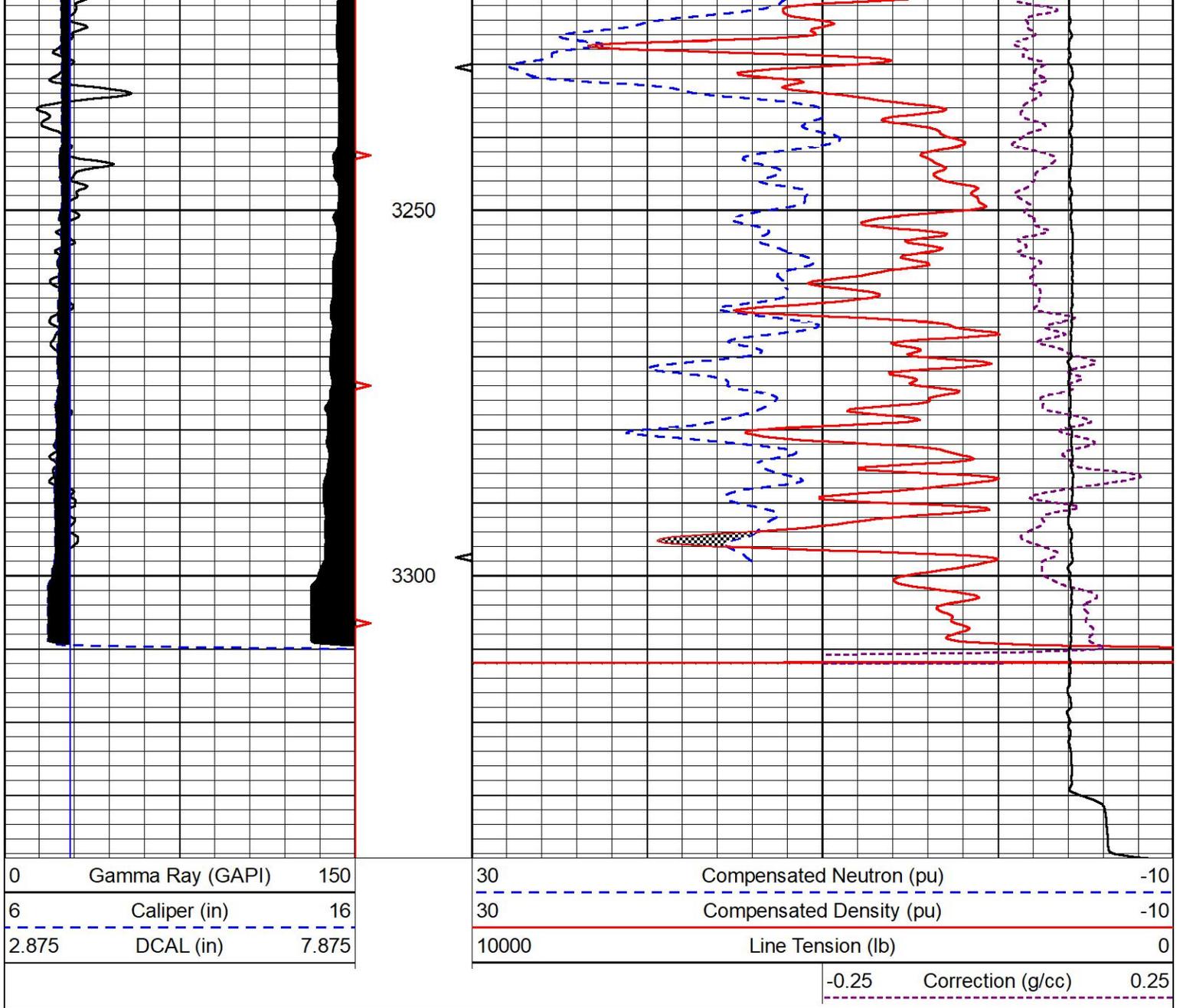










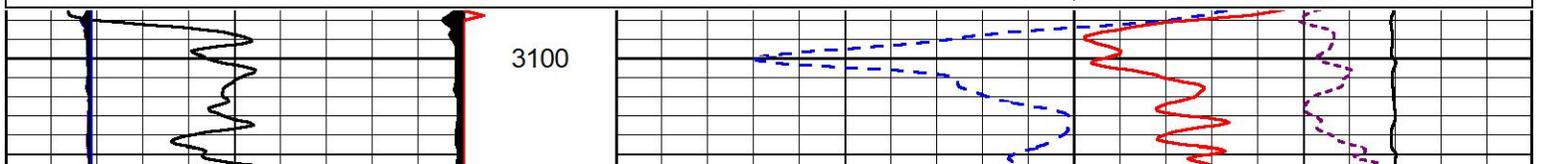


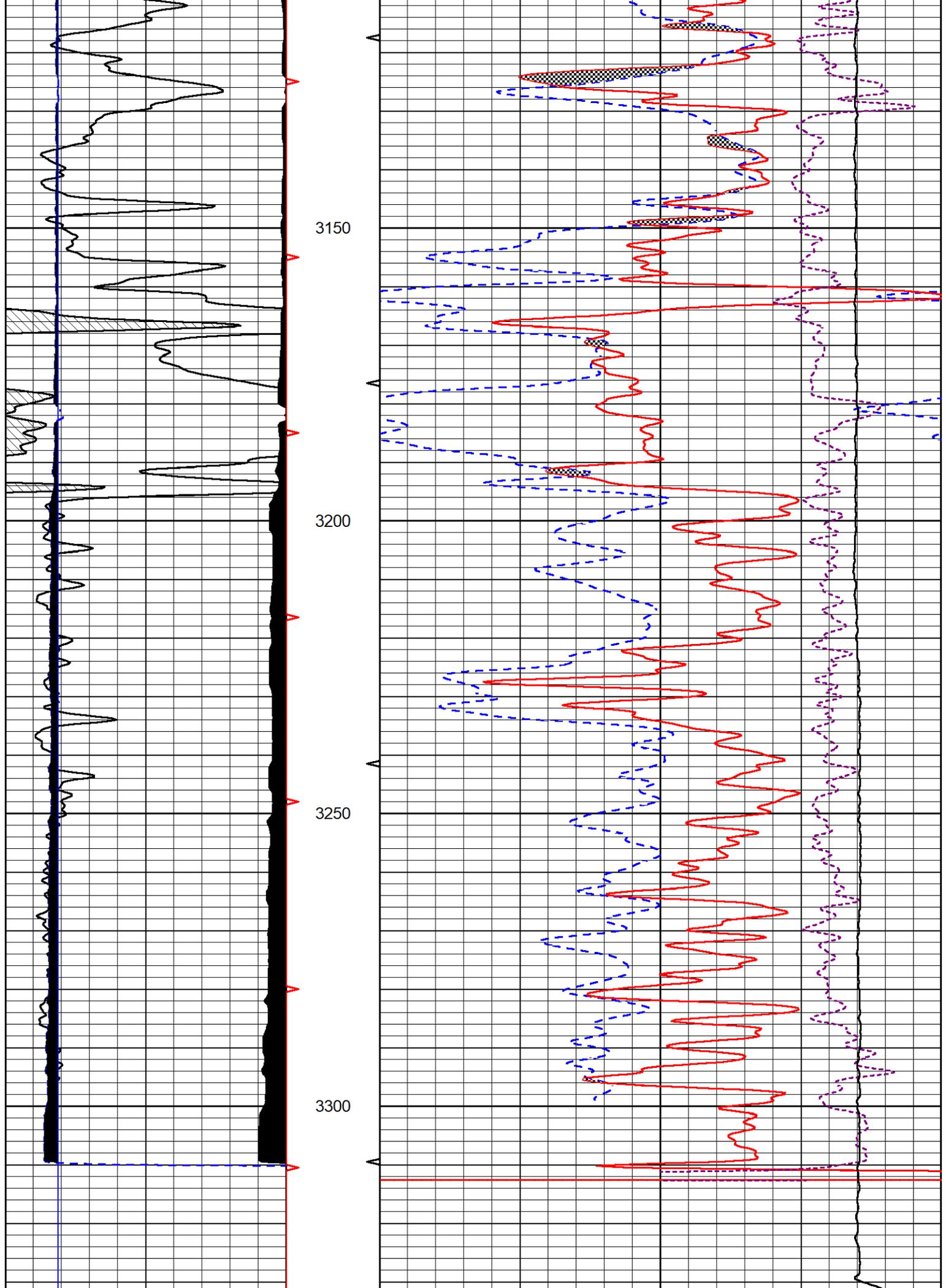
REPEAT SECTION

REPEAT PASS

Database File castle_mollhagen #2.db
 Dataset Pathname STKML/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Fri Jul 12 17:29:05 2024
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10	
6	Caliper (in)	16	30	Compensated Density (pu)	-10	
2.875	DCAL (in)	7.875	10000	Line Tension (lb)	0	
				-0.25	Correction (g/cc)	0.25





0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10
6	Caliper (in)	16	30	Compensated Density (pu)	-10
2.875	DCAL (in)	7.875	10000	Line Tension (lb)	0
				-0.25 Correction (g/cc)	0.25

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Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	27000.0000	-0.5000
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	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:	105	
Tool Model:	M&W	
Performed:	Mon Aug 7 20:46:01 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps



MIDWEST WIRELINE

Company	Castle Resources Inc.
Well	Mollhagen #2
Field	Geneseo-Edwards
County	Ellsworth
State	Kansas