



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company **WEBECO Oil Company, Inc.**
 Well **Schauf W #1**
 Field **Kraft-Prusa**
 County **Barton** State **Kansas**

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Location: **API #: 15-009-26377-00-00**
730 FSL & 473 FEL
SEC 2 TWP 16S RGE 12W
 Permanent Datum **Ground Level** Elevation **1905**
 Log Measured From **Kelly Bushing**
 Drilling Measured From **Kelly Bushing**
 Other Services **DIL/MEL BHCs**
 Elevation **1915**
 D.F. **G.L. 1905**

Date	1/29/2023						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	3410						
Depth Logger	3410						
Bottom Logged Interval	3381						
Top Logged Interval	2800						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	5000						
Density	9.3						
Level	Full						
Max. Rec. Temp. F	110						
Operating Rig Time	4 Hours						
Equipment -- Location	P-108 HAYS						
Recorded By	D. Schmidt						
Witnessed By	Jim Musgrove						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	341	8.625	23	0	341
Two	7.875	341	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.

**Beaver,
2 East, 2 1/2 North,
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

**Engineer: D. Schmidt
Operator:
Operator:
Operator:**

This Log Record Was Witnessed By

**Primary Witness: Jim Musgrove
Secondary Witness:
Secondary Witness:
Secondary Witness:**

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
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
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: webco_schauf w 1.db: field/well/stkml/pass8.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\webco_schauf w 1.db
 Dataset field/well/stkml/pass8.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	110	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	348	10	Off	3410

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

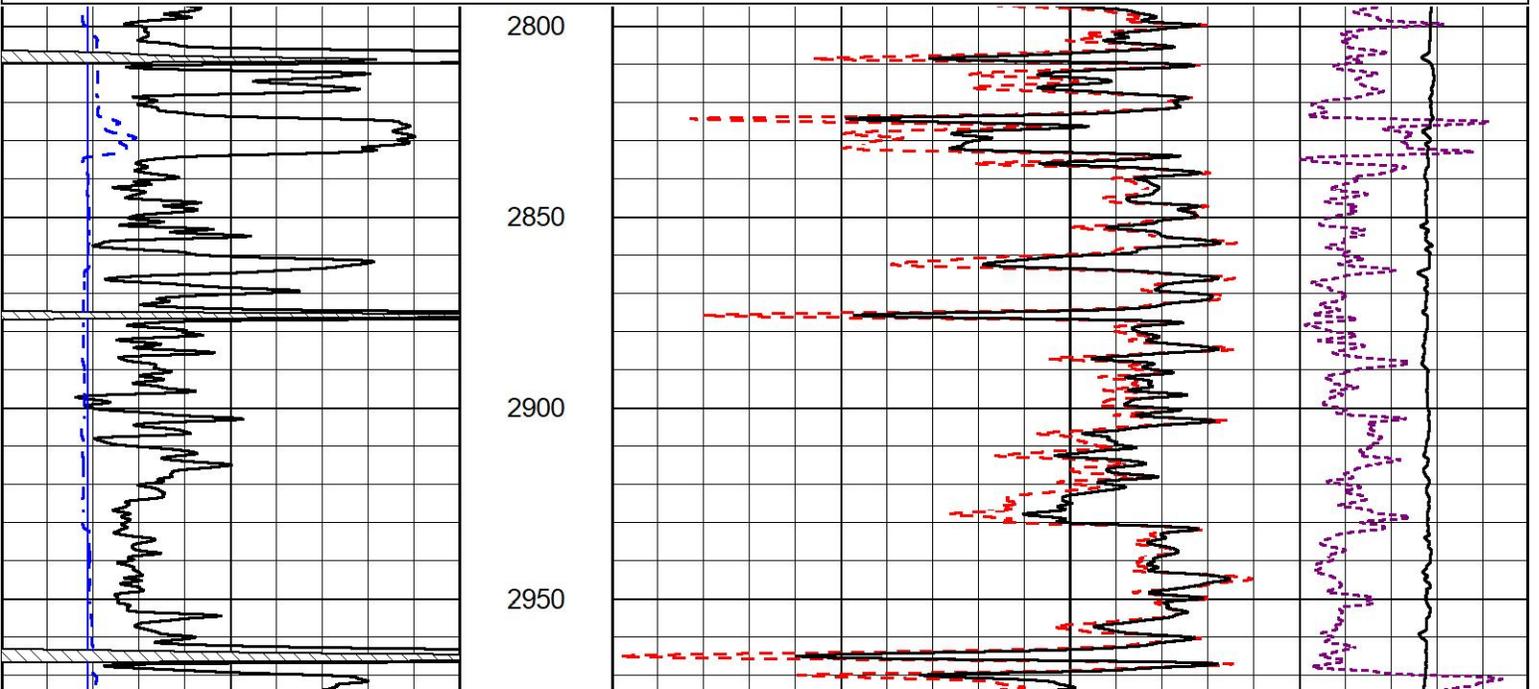


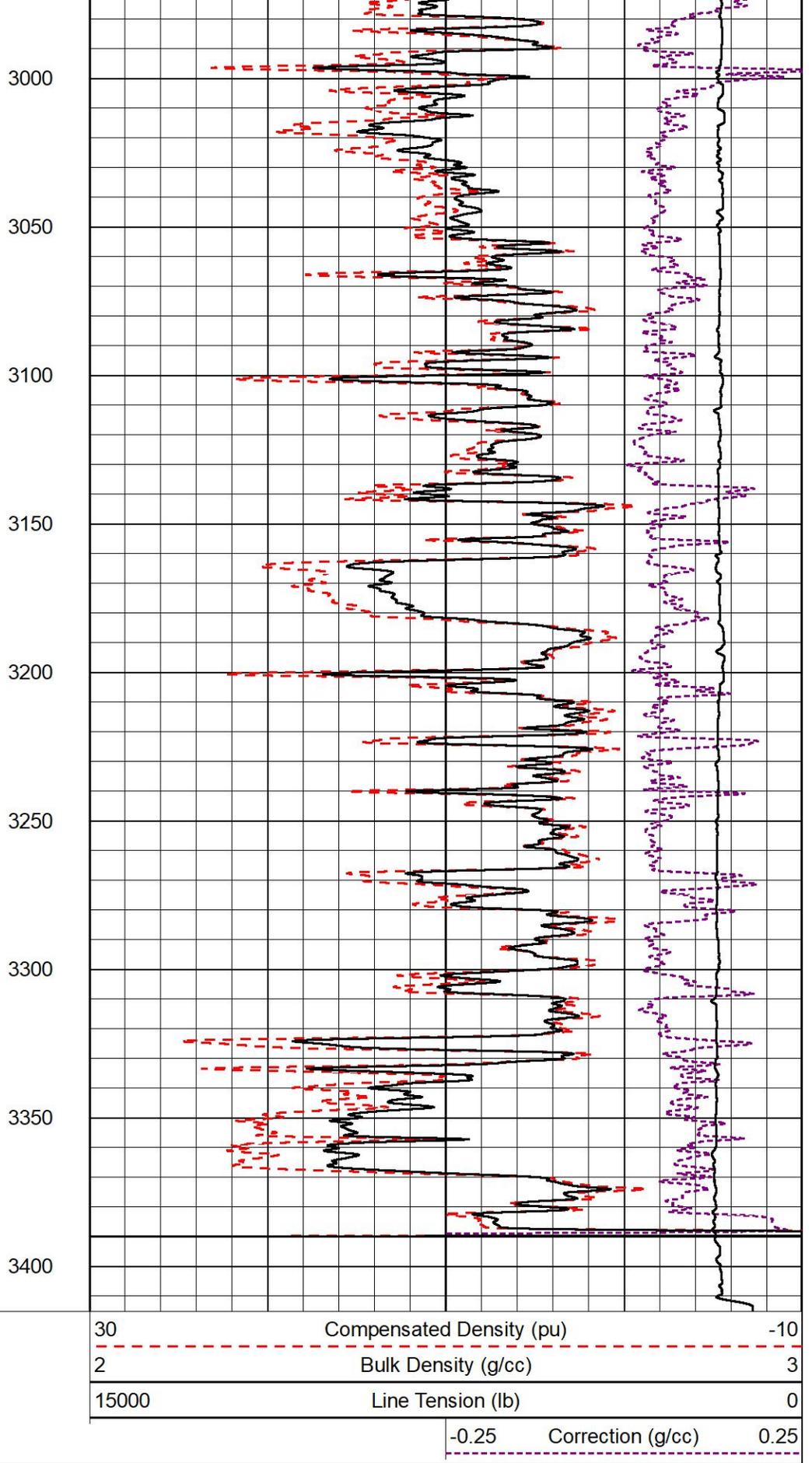
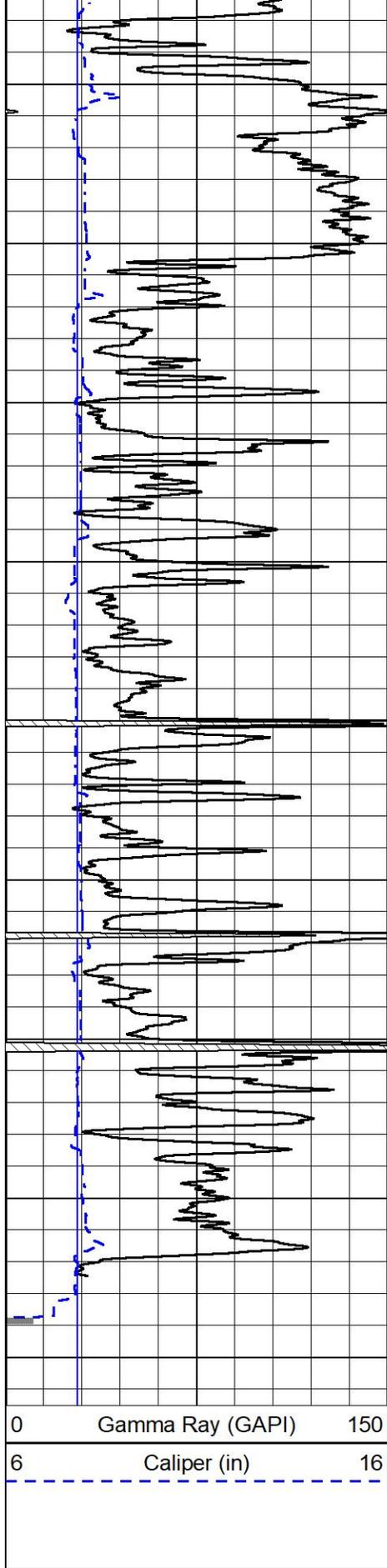
2" SCALE BULK DENSITY

MAIN PASS

Database File webco_schauf w 1.db
 Dataset Pathname stkml/pass8.2
 Presentation Format _cdl
 Dataset Creation Sun Jan 29 12:18:24 2023
 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	
			15000	Line Tension (lb)	0	
				-0.25	Correction (g/cc)	0.25





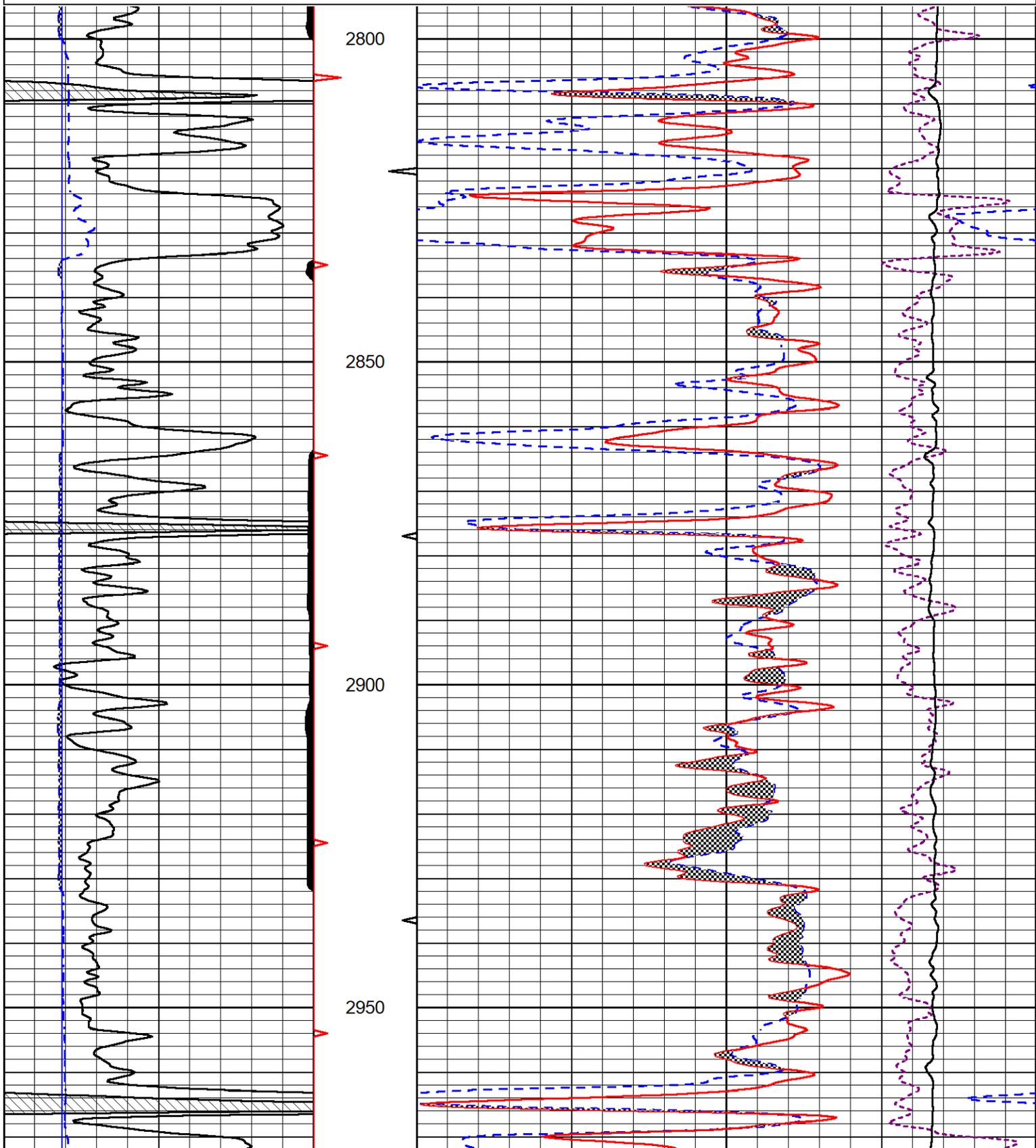
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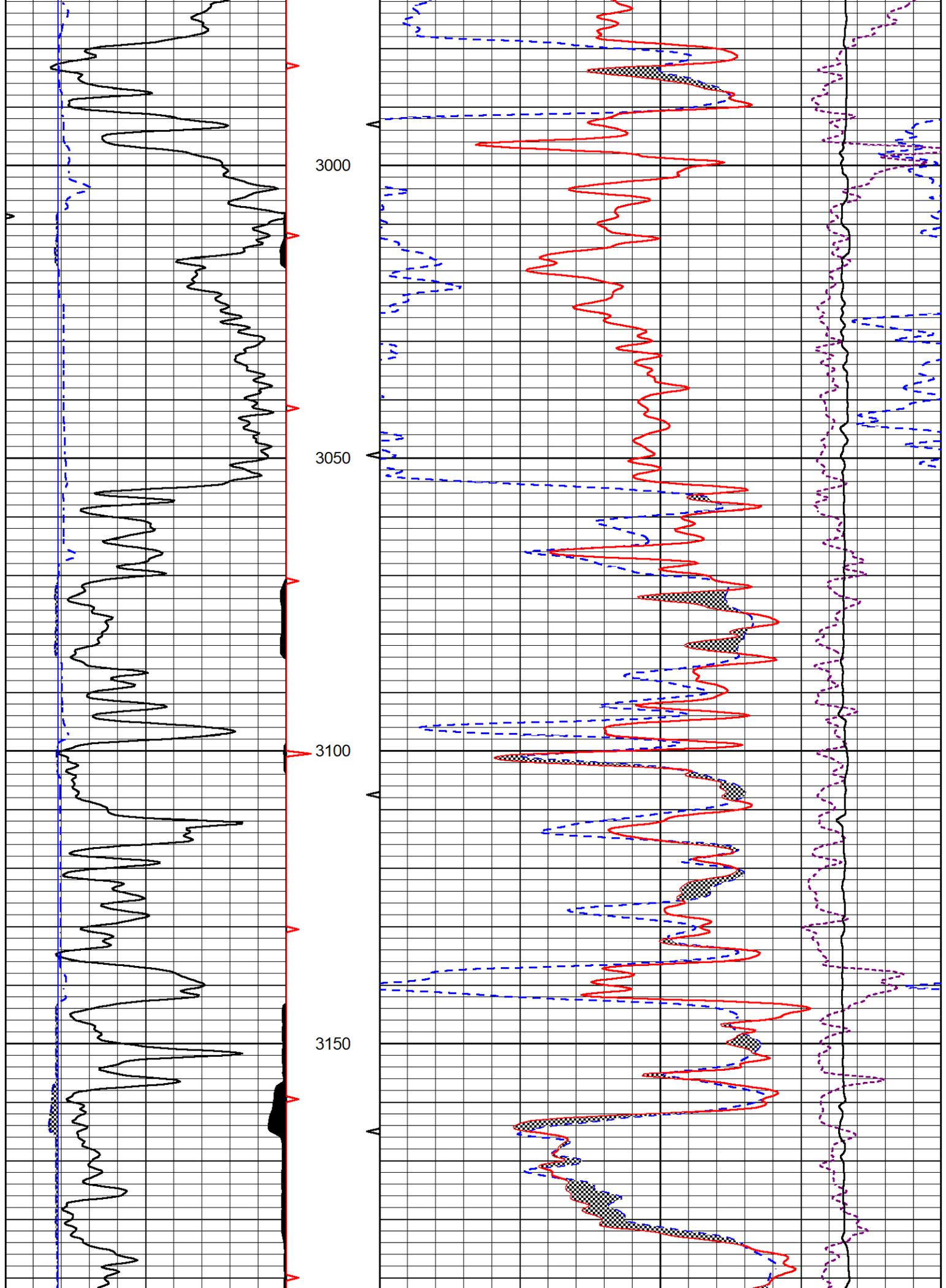
MAIN PASS

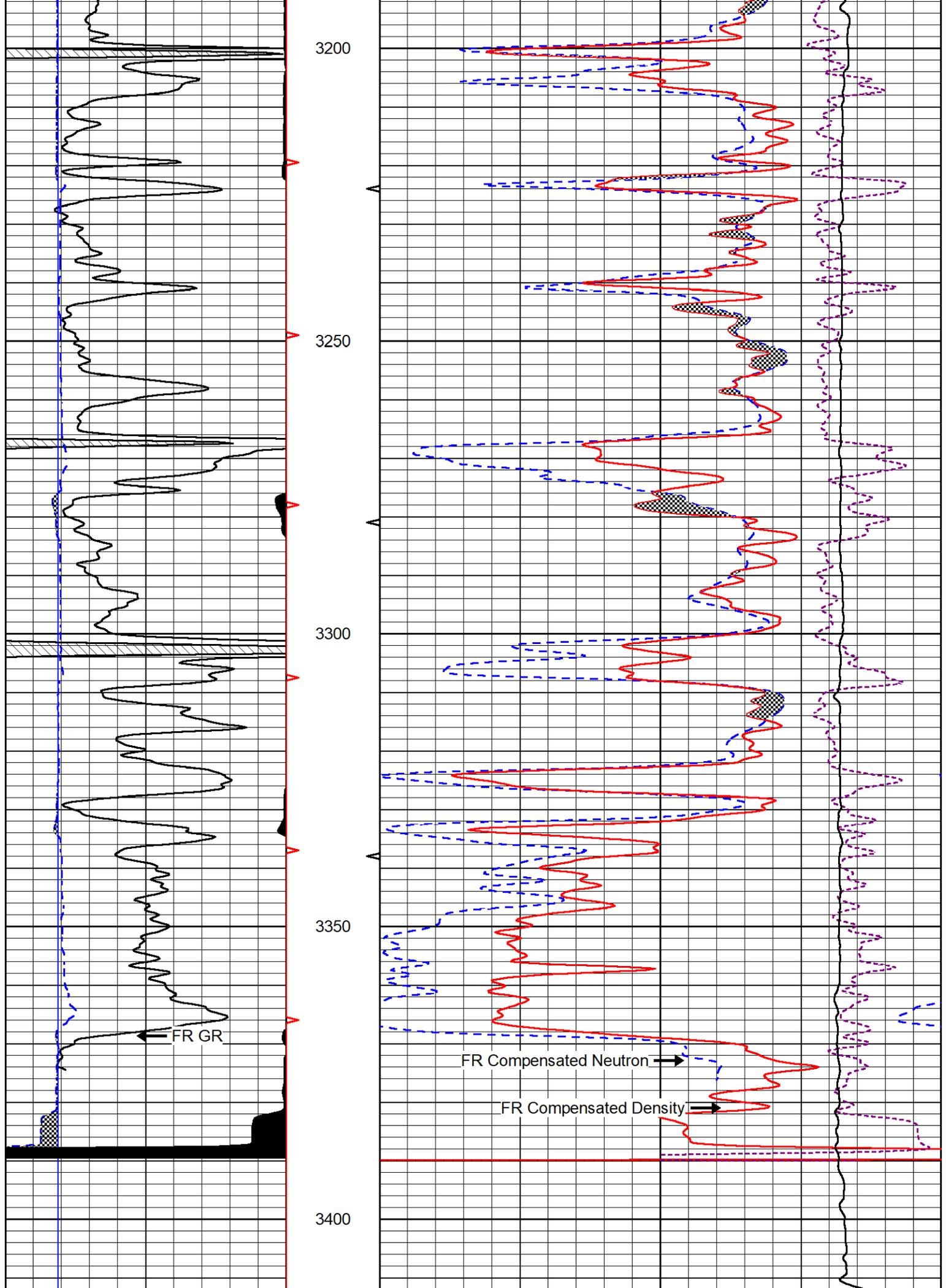
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Dataset Pathname stkml/pass8.1
Presentation Format _CNDLS~1
Dataset Creation Sun Jan 29 12:18:18 2023
Charted by Depth in Feet scaled 1:240

0 GR (GAPI) 150
6 DCAL (in) 16

30 Compensated Neutron (pu) -10
30 Compensated Density (pu) -10
10000 Line Tension (lb) 0
-0.25 Correction (g/cc) 0.25







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

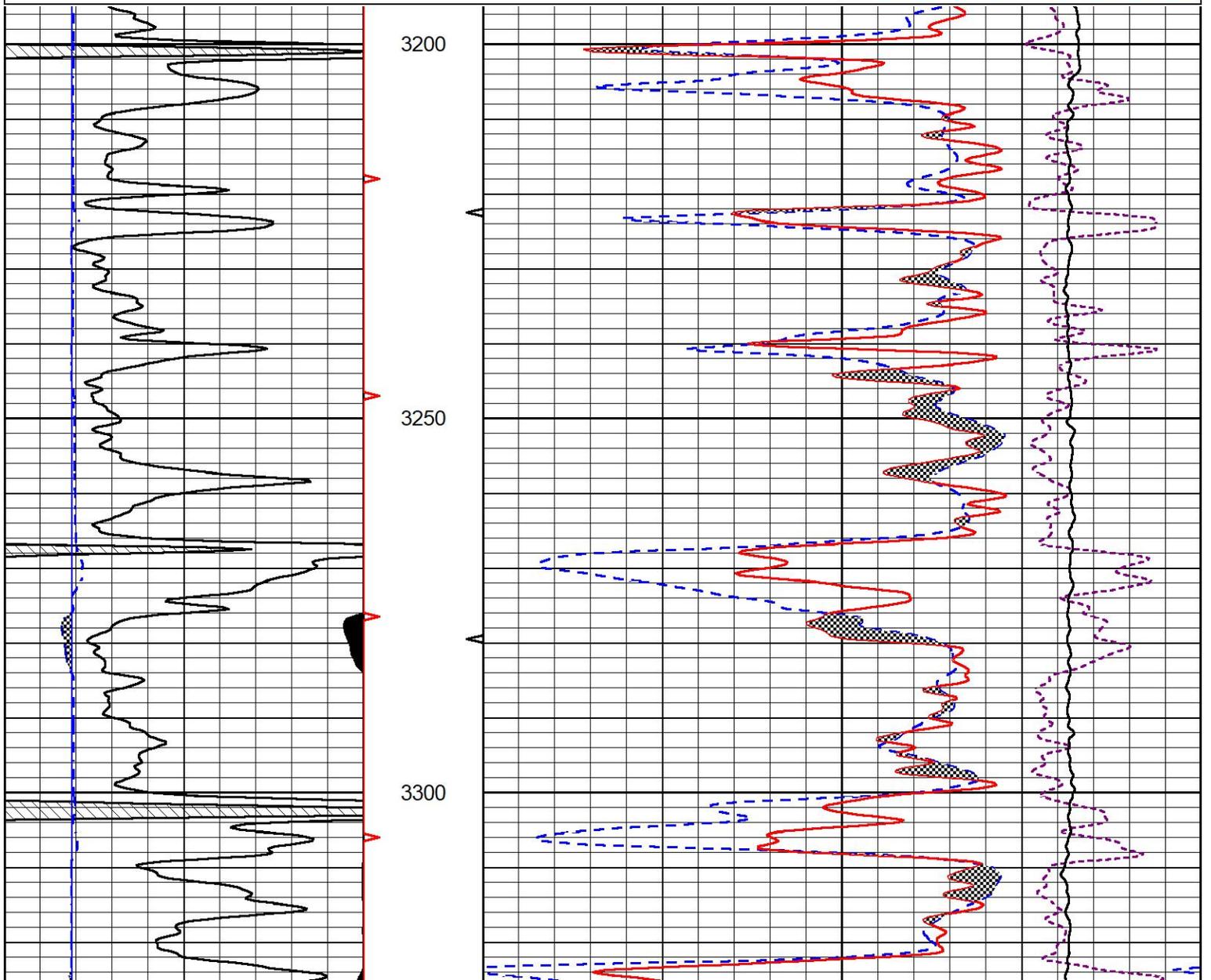


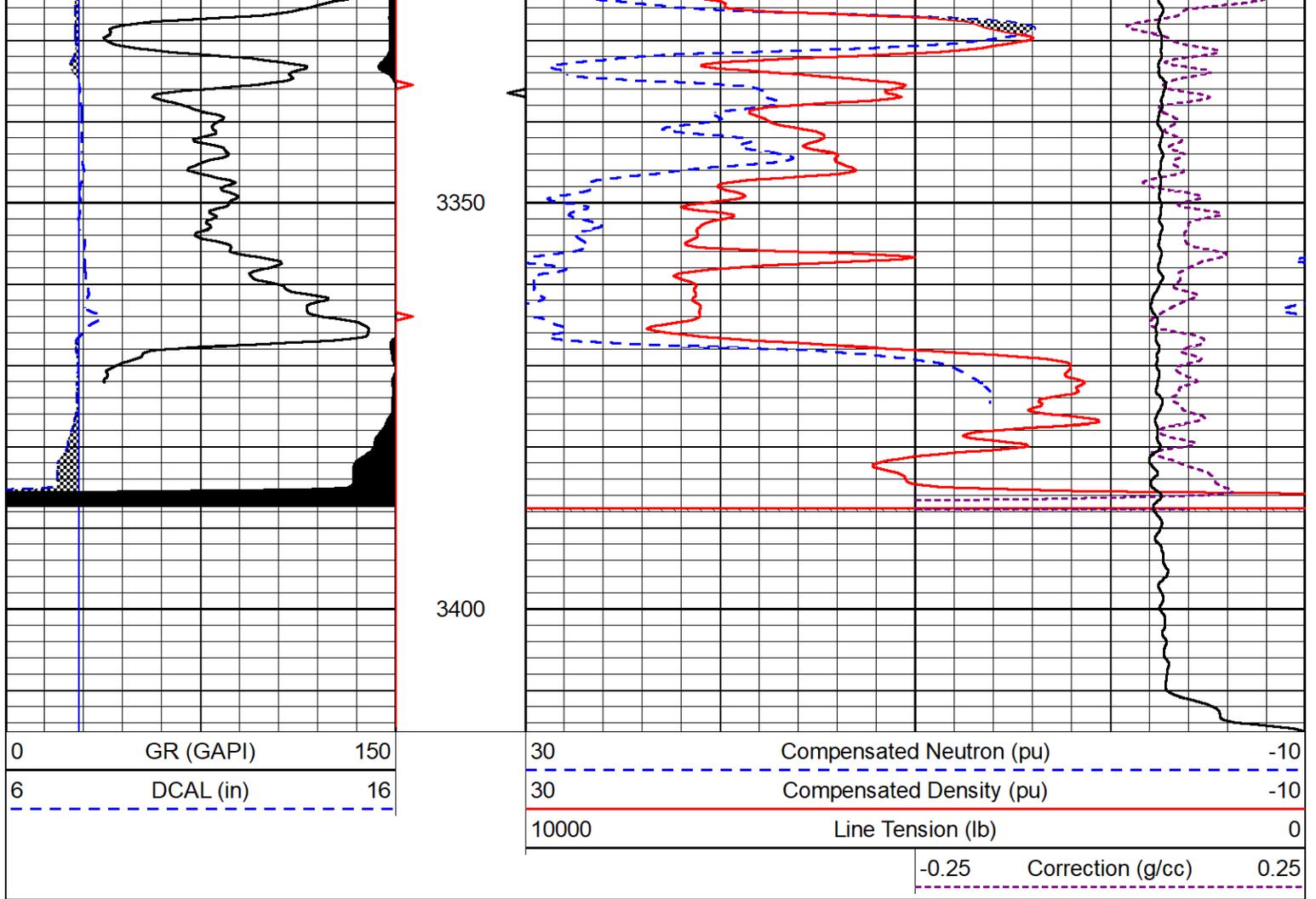
REPEAT SECTION

REPEAT PASS

Database File webco_schauf w 1.db
 Dataset Pathname stkml/pass4.1
 Presentation Format _CNDLS~1
 Dataset Creation Sun Jan 29 05:27:22 2023
 Charted by Depth in Feet scaled 1:240

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





Calibration Report

Database File webco_schauf w 1.db
 Dataset Pathname stkml/pass8.1
 Dataset Creation Sun Jan 29 12:18:18 2023

Dual Induction Calibration Report

Serial-Model: 504 HT-M&W
 Surface Cal Performed: Wed Jan 25 21:25:46 2023

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.570	-20.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.390	-36.000

Microlog Calibration Report

Serial-Model: 402-PSI STKBL ML
 Performed: Wed Jan 25 21:26:04 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	28000.0000	-1.3000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	33000.0000	-1.0000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.4750

Compensated Density Calibration Report

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

Master Calibration

	<u>Density</u>		<u>Far Detector</u>	<u>Near Detector</u>	
Magnesium	1.755	g/cc	5193.26	4968.12	cps
Aluminum	2.685	g/cc	962.25	3144.87	cps
	Spine Angle = 74.82		Density/Spine Ratio = 0.532		
	<u>Size</u>		<u>Reading</u>		
Small Ring	4.00	in	1.01		
Large Ring	14.00	in	1.15		

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: Wed Jan 25 21:25:33 2023

Calibrator Value: 500.0 GAPI

Background Reading: 28.0 cps
 Calibrator Reading: 986.0 cps

Sensitivity: 0.5700 GAPI/cps



Company WEBCO Oil Company, Inc.
Well Schauf W #1
Field Kraft-Prusa
County Barton
State Kansas