



DUAL COMP POROSITY LOG

MIDWEST WIRELINE

Company R. P. Nixon Operations, Inc.
Well Leiker Twin #6
Field Air Base
County Ellis
State Kansas

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Location: API #: 15-151-27029-00-00
1582 FSL & 1266 FWL
SEC 26 TWP 13S RGE 16W
Permanent Datum Ground Level Elevation 1942
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL/MEL
K.B. 1950
D.F. 1942
G.L. 1942

Date	3/20/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	3530						
Depth Logger	3534						
Bottom Logged Interval	3505						
Top Logged Interval	2800						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	8200						
Density	9.2						
Level	Full						
Max. Rec. Temp. F	111						
Operating Rig Time	2 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	D. Schmidt						
Witnessed By	Dan Nixon						
Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	309	8.625	23	0	309
Two	7.875	309	TD				

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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.
Walker,
1.1 North, West 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		This Log Record Was Witnessed By	
Engineer: D. Schmidt		Primary Witness: Dan Nixon	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Operator	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
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Log Variables

DatabaseC:\ProgramData\Warrior\Data\rp nixon_leiker twin 6.db
Dataset field/well/stkml/pass3.12/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 111	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 -130	degF 40	Off	ft 3534

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



MIDWEST WIRELINE

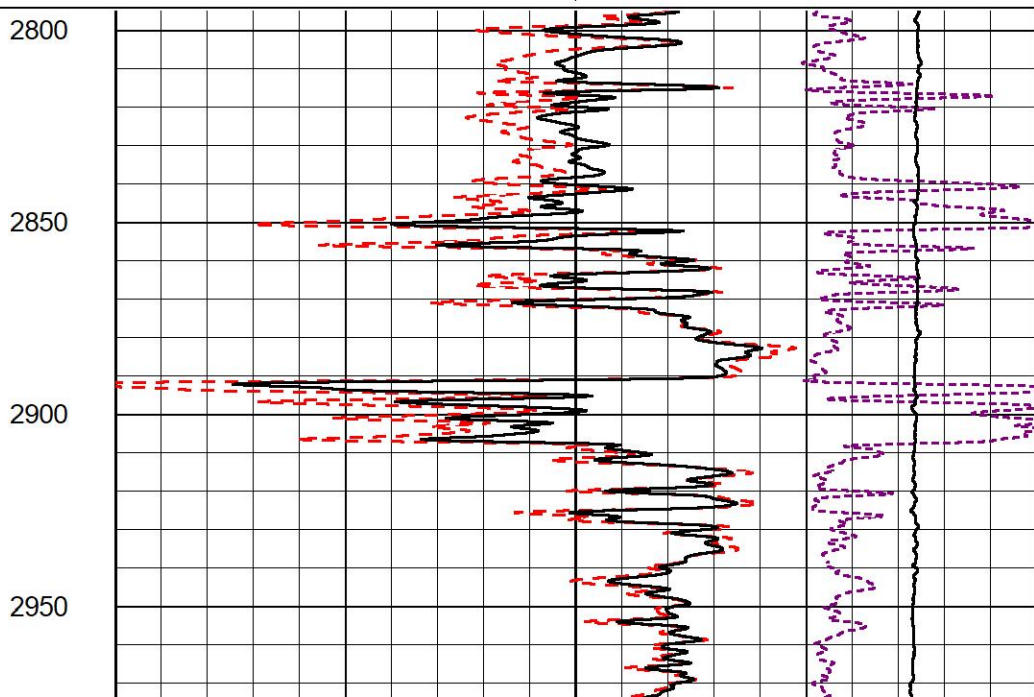
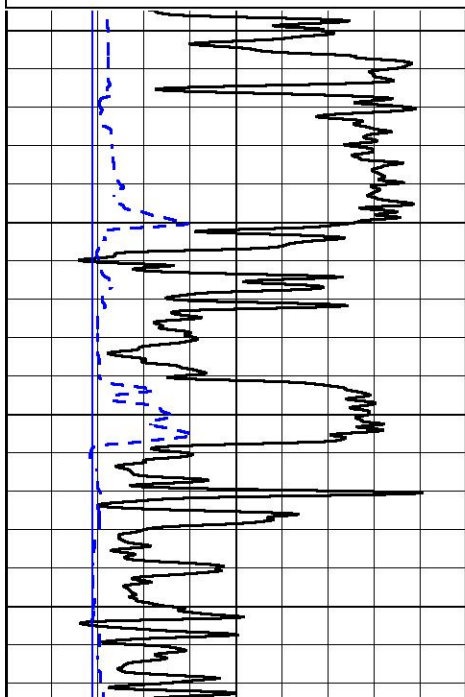
2" SCALE BULK DENSITY

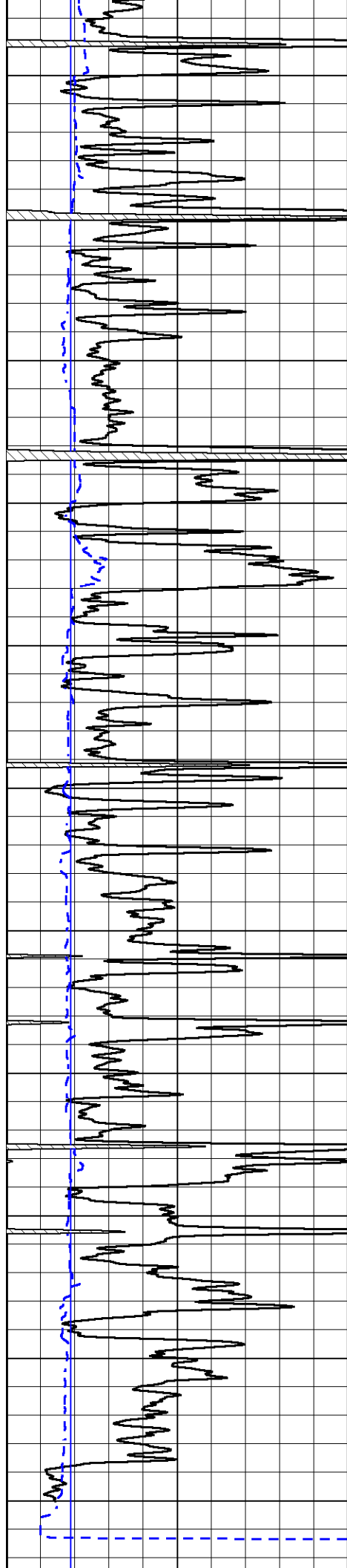
MAIN PASS

Database File rp nixon_leiker twin 6.db
Dataset Pathname stkml/pass3.2
Presentation Format _cdl
Dataset Creation Sun Mar 20 02:37:37 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
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25





3000

3050

3100

3150

3200

3250

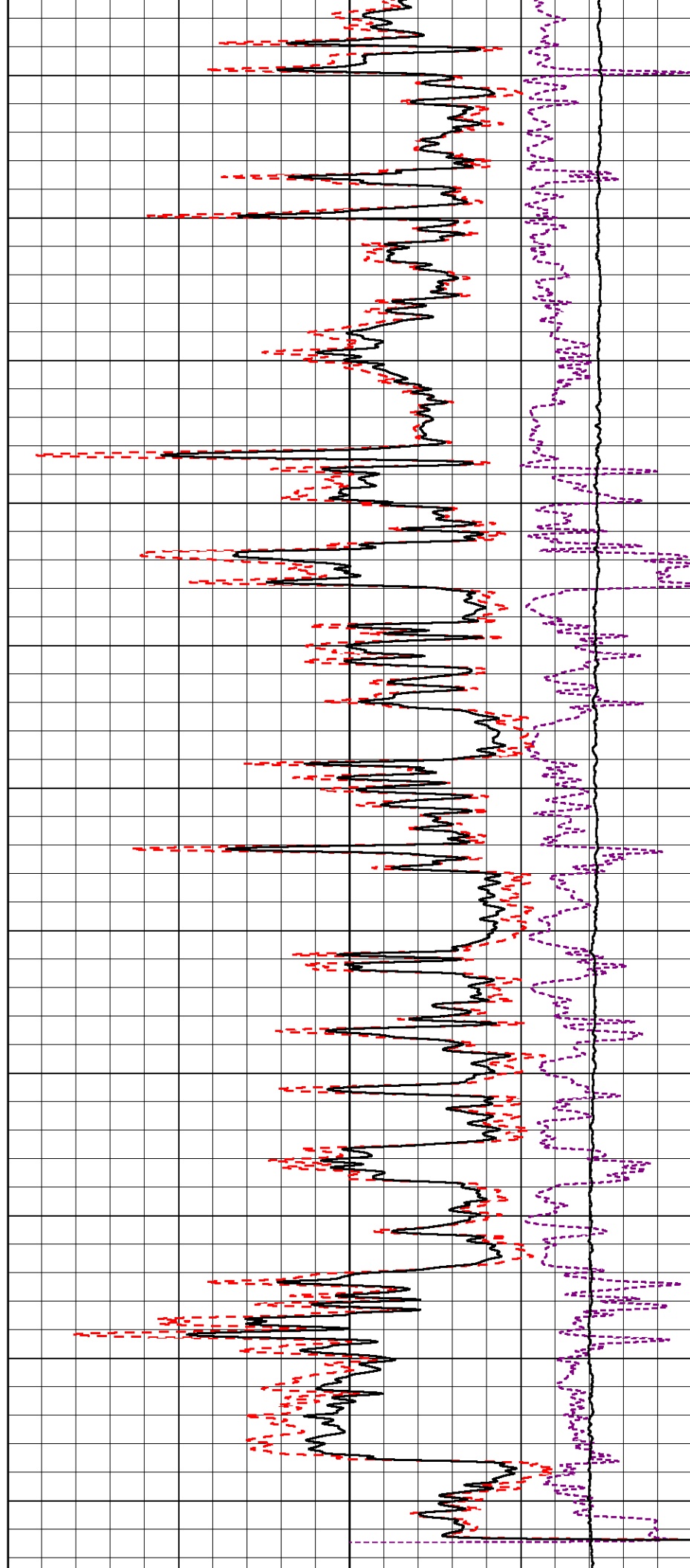
3300

3350

3400

3450

3500



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



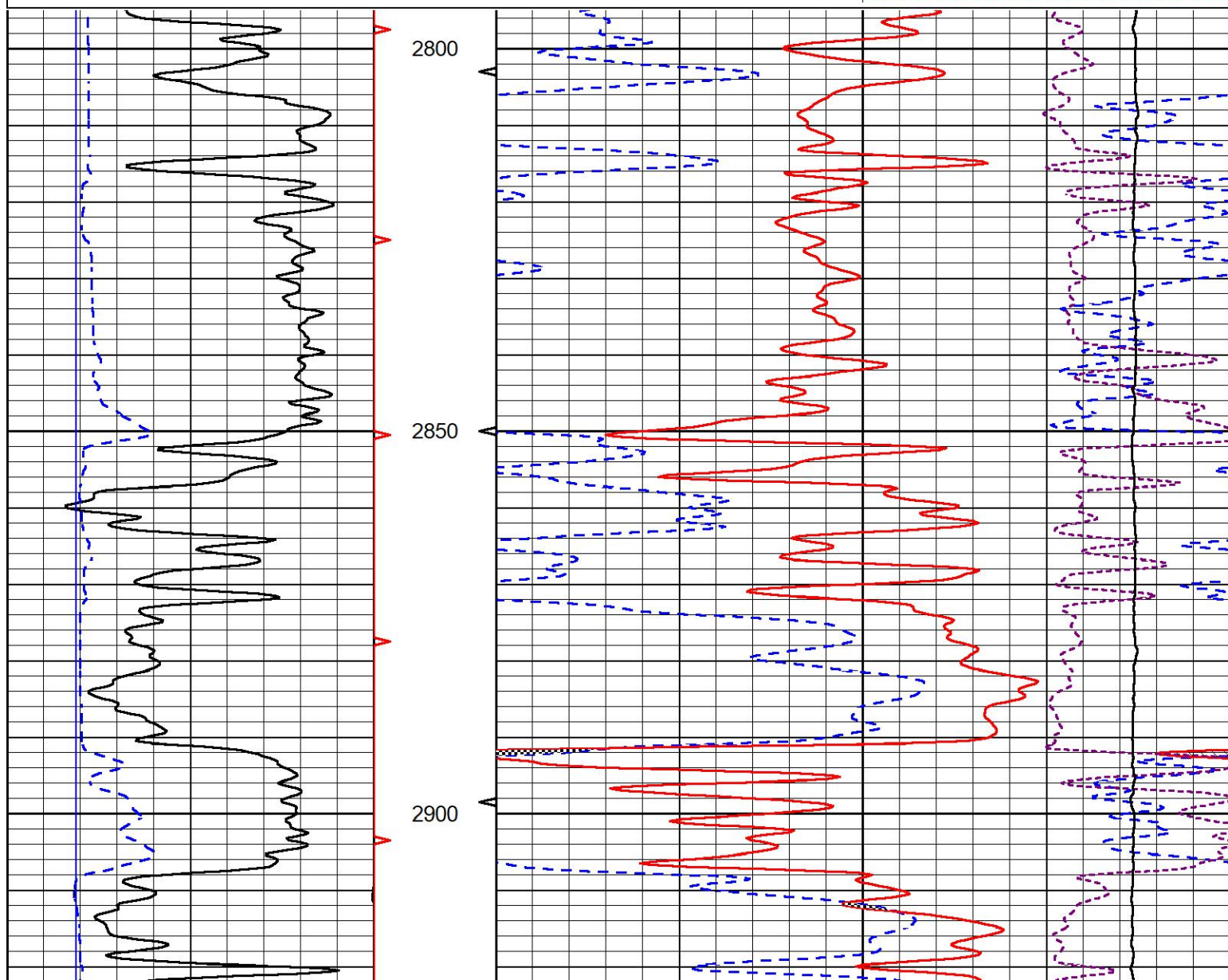
MIDWEST WIRELINE

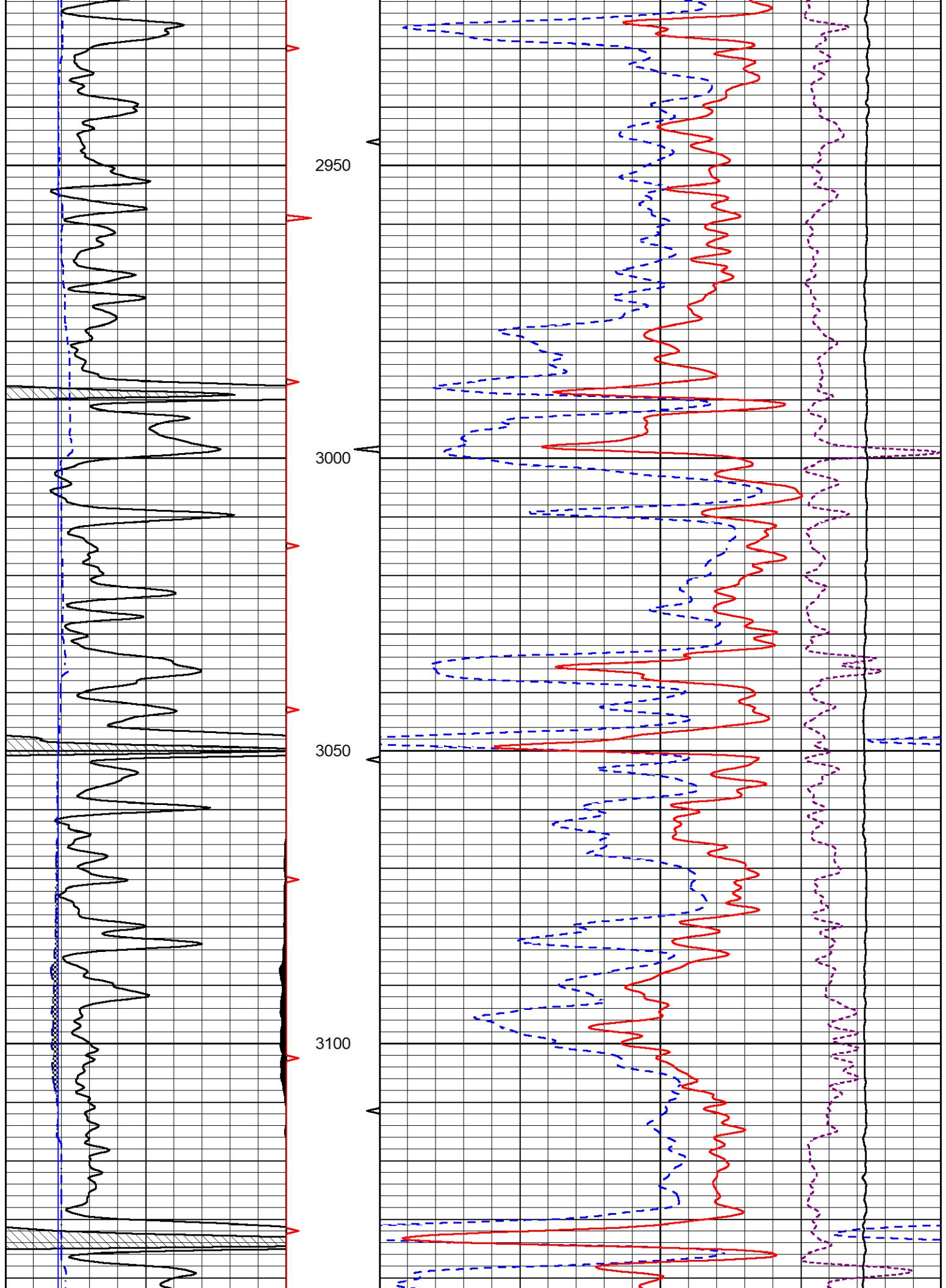
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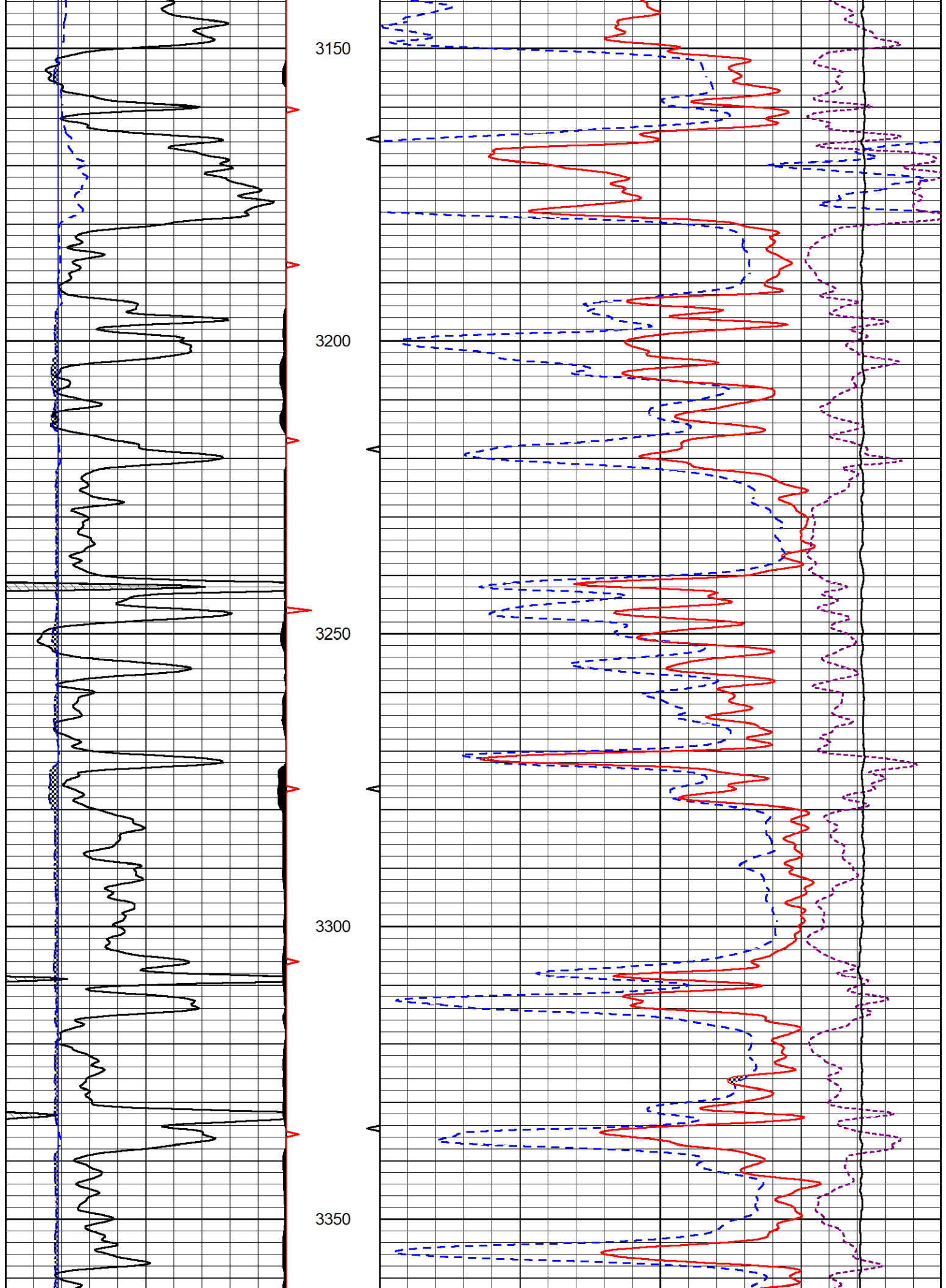
MAIN PASS

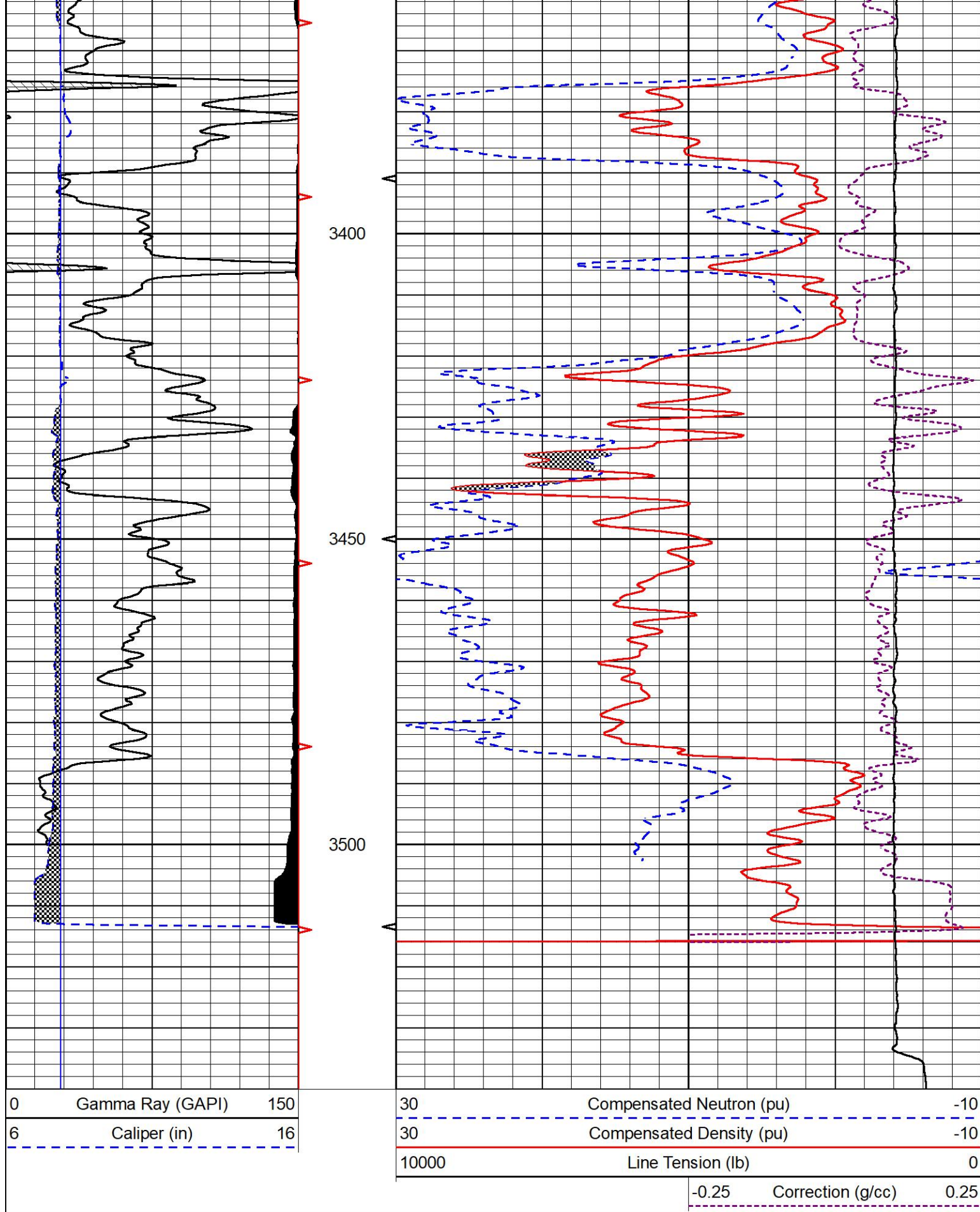
Database File rp nixon_leiker twin 6.db
Dataset Pathname stkml/pass3.1
Presentation Format _CNDLS~1
Dataset Creation Sun Mar 20 02:37:31 2022
Charted by Depth in Feet scaled 1:240

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









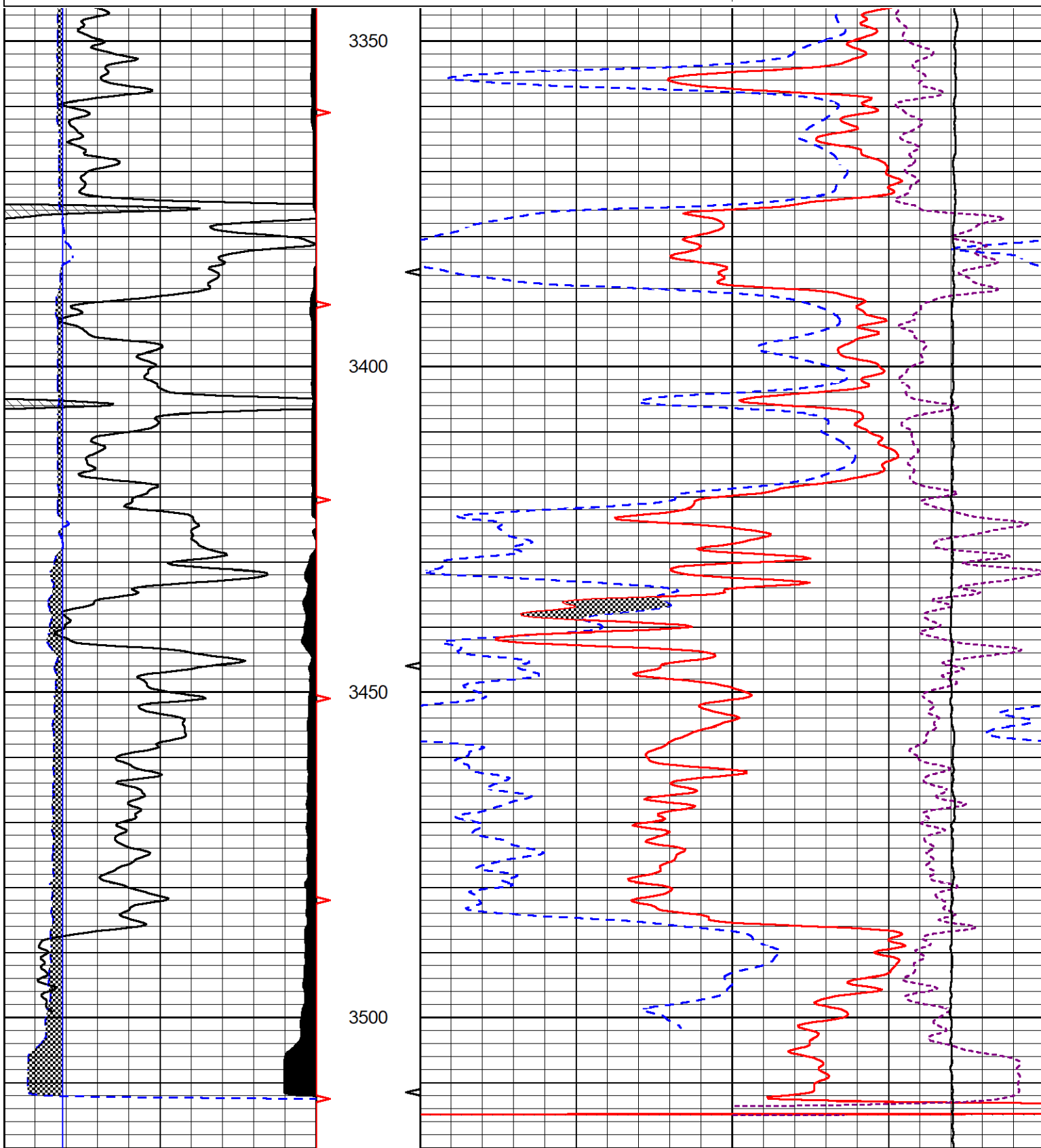
REPEAT SECTION

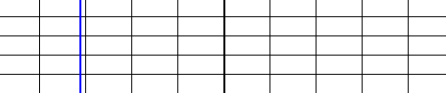
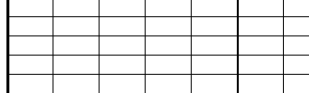
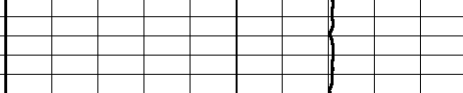
REPEAT PASS

Database File rp nixon_leiker twin 6.db
Dataset Pathname stkml/pass2.12
Presentation Format _CNDLS~1
Dataset Creation Sun Mar 20 02:13:05 2022
Charted by Depth in Feet scaled 1:240

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

Calibration Report

```
Database File      rp nixon_leiker twin 6.db
Dataset Pathname  stkml/pass3.12
Dataset Creation   Sun Mar 20 01:47:45 2022
```

Dual Induction Calibration Report

Serial-Model: 501 HT-M&W
Surface Cal Performed: Wed Feb 23 19:44:50 2022

		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-38.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.290	-31.500

Microlog Calibration Report

Serial-Model: 402-PSIML
Performed: Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	35000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	0.2000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-122.2000

Compensated Density Calibration Report

Serial-Model: 305-05-M&W
Source #: 20762B
Master Calibration Performed: Sat Mar 12 21:07:42 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8862.47	9339.96	cps
Aluminum	2.618	g/cc	1556.73	5707.29	cps
Spine Angle = 74.19			Density/Spine Ratio = 0.477		
	Size		Reading		
Small Ring	4.00	in	1.75		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial-Model:	207-MW-M&W
Source #:	100046B
Master Calibration Performed:	Mon Nov 29 15:06:24 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:	101	
Tool Model:	M&W	
Performed:	Mon Jan 24 19:14:46 2022	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



Company	R. P. Nixon Operations, Inc.
Well	Leiker Twin #6
Field	Air Base
County	Ellis
State	Kansas