



PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company CARMEN SCHMITT, INC.
Well SB UNIT #1
Field WILDCAT
County ROOKS
State KANSAS

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Location: API #: 15-163-24410-00-00

Other Services

100' FNL & 300' FEL
SEC 36 TWP 7S RGE 16W

DIL
MEL

Permanent Datum GROUND LEVEL Elevation 1777'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1787'
D.F. N/A
G.L. 1777'

Date 3/17/2020

Run Number ONE

Type Log CNL/CDL

Depth Driller 3425'

Depth Logger 3422'

Bottom Logged Interval 3390'

Top Logged Interval 2000'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 3000

Density 9.4

Level FULL

Max. Rec. Temp. F 110 DEG/F

Operating Rig Time 2 HOURS

Equipment -- Location P-108 HAYS

Recorded By J. HENRICKSON

Witnessed By BRAD RINE

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	1111'	8.625"	24#	0	1111'
TWO	7.875"	1111'	TD				

<<< Fold Here >>>

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

WOODSTON KANSAS

2 WEST TO 30 RD, 2 SOUTH TO J AVE, 1 EAST, 1 1/2 SOUTH INTO

Log Measured From: KELLY BUSHING

10 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneerenergy.com

785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON

Operator:

Operator:

Operator:

This Log Record Was Witnessed By

Primary Witness: BRAD RINE

Secondary Witness:

Secondary Witness:

Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 109	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 275	degF 50	Off	ft 3422

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	44.50			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	41.40			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	40.65			CDL-M&W (934-229)	8.50	4.00	250.00
LSD	32.35			ML-PSI UDM ML (UDM-01) Stackable Microlog Tools	11.50	4.00	215.00
DCAL	32.33						
SSD	31.85						
MCAL	20.87			DIL-M&W (55-222)	18.50	3.50	220.00
MI	20.87						
MN	20.87						
RLL3	15.80						
RLL3F	15.79						
CILD	8.00						

CILM

4.70

SP

0.20

Dataset: carmen_schmitt_sb_unit_1.db: field/well/stackml/pass3.1
Total length: 47.00 ft
Total weight: 835.00 lb
O.D.: 4.00 in

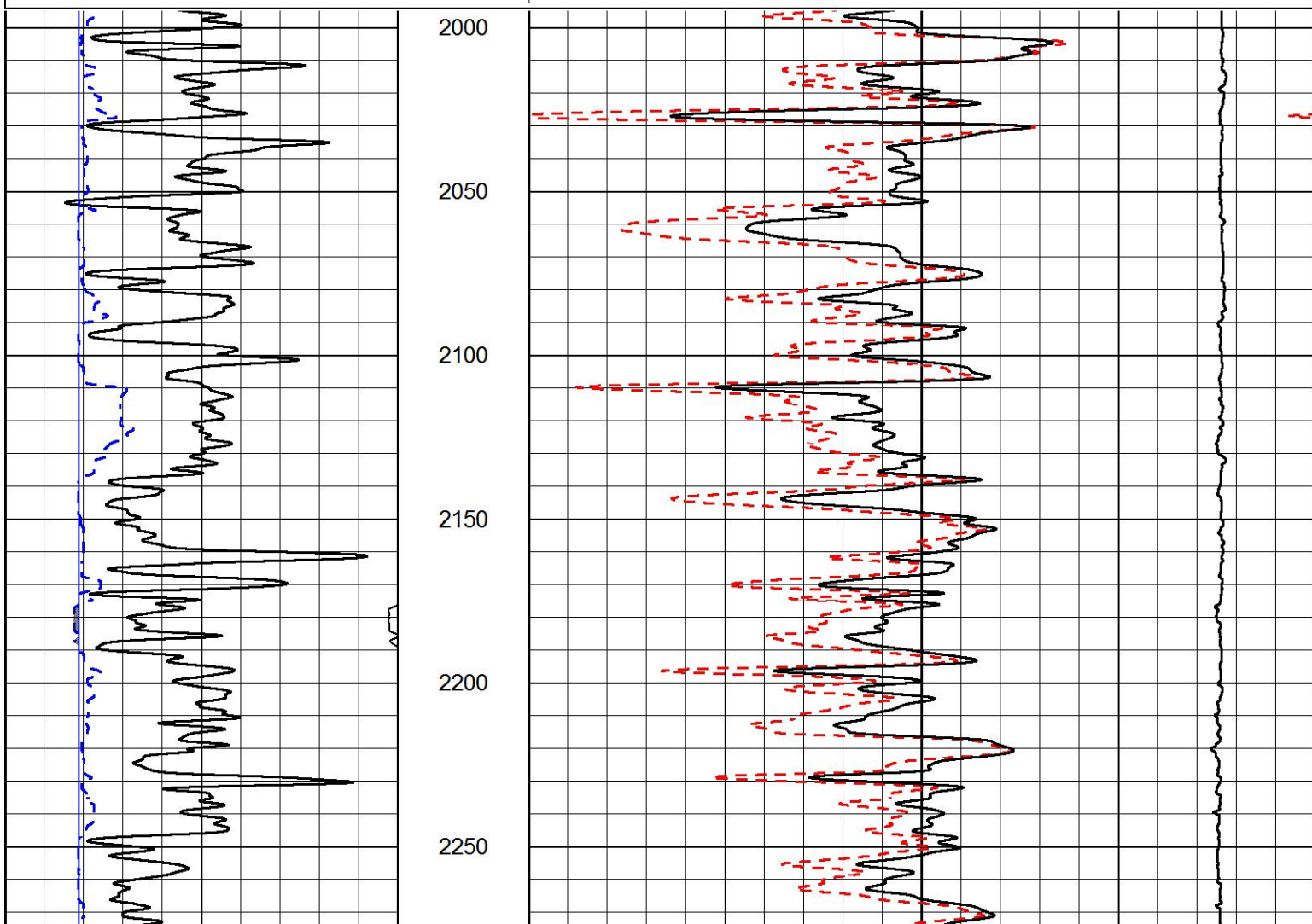


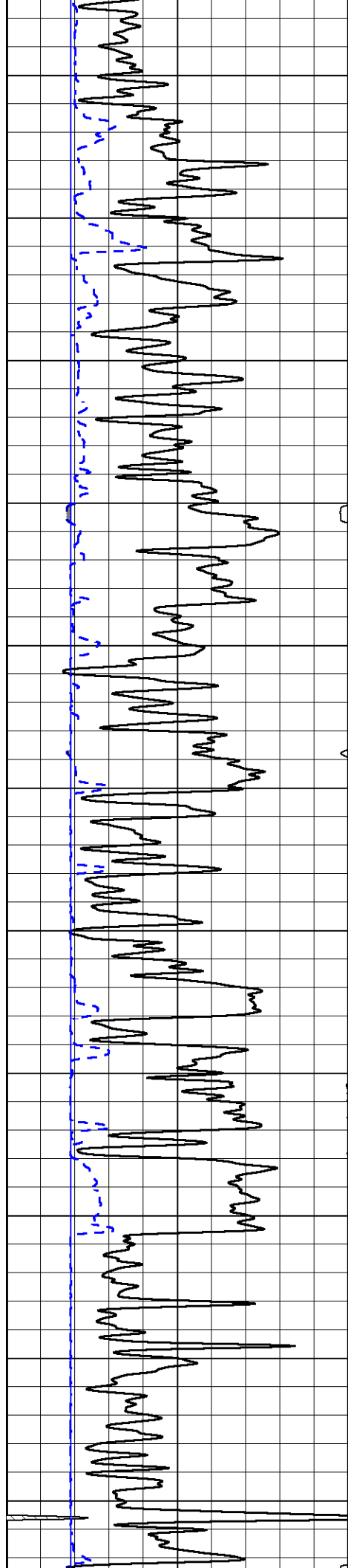
MAIN PASS

Database File carmen_schmitt_sb_unit_1.db
Dataset Pathname stackml/pass3.1
Presentation Format cdl
Dataset Creation Tue Mar 17 01:40:18 2020
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





2300

2350

2400

2450

2500

2550

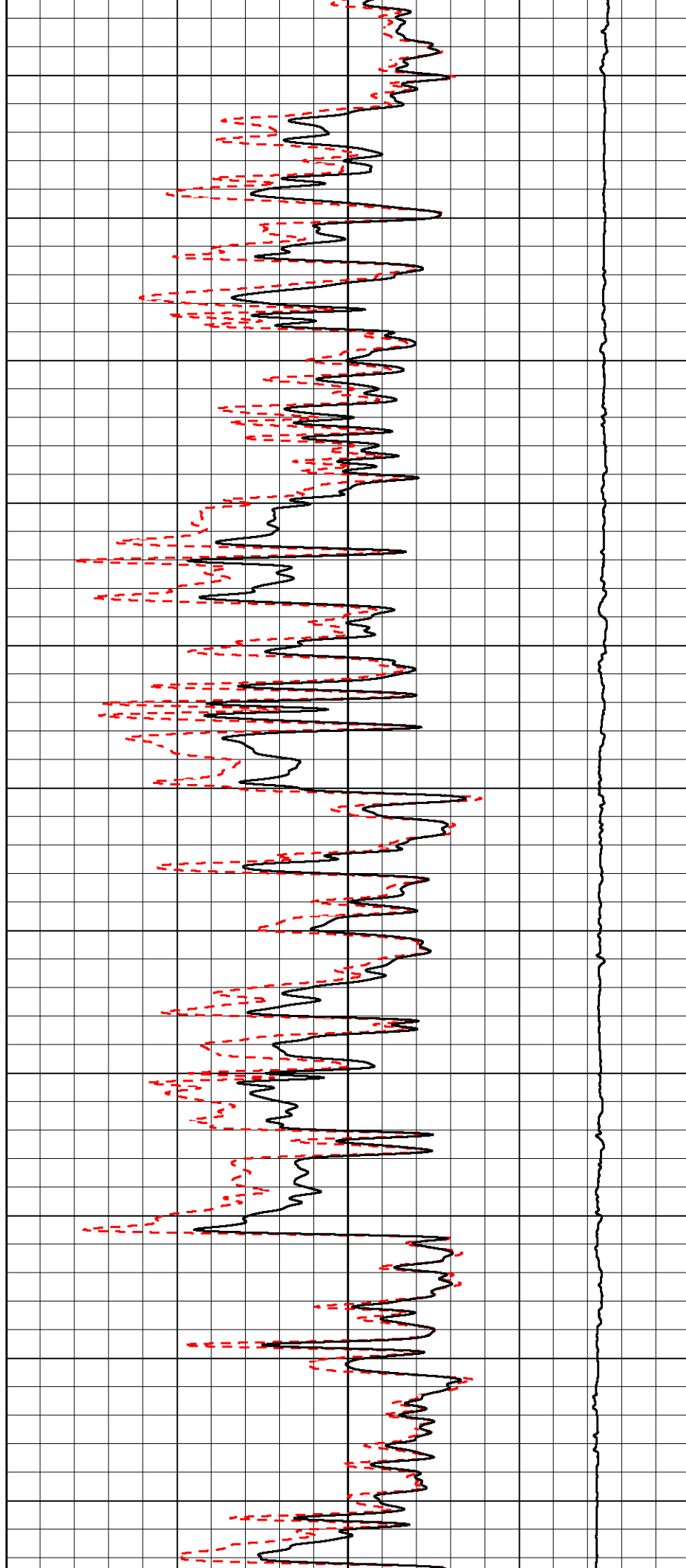
2600

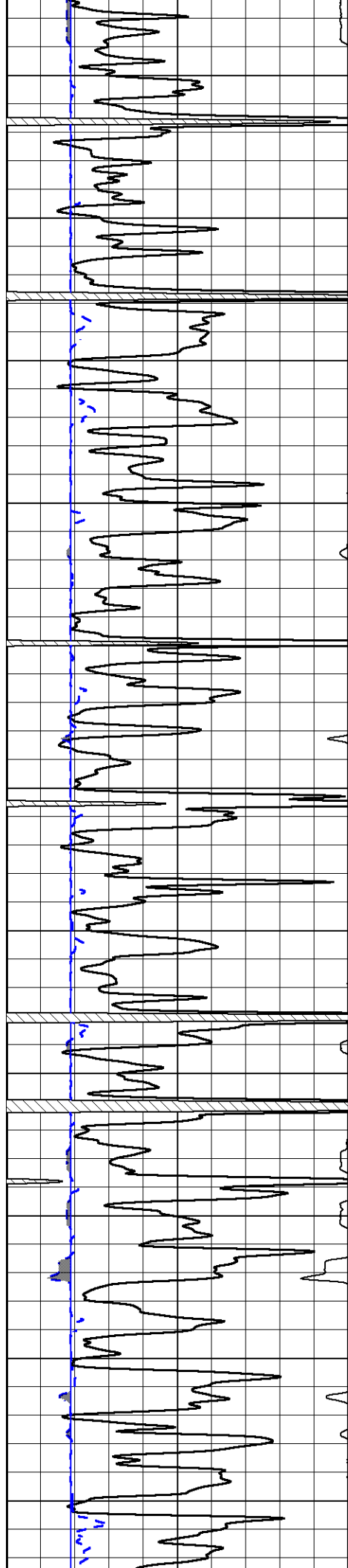
2650

2700

2750

2800





2850

2900

2950

3000

3050

3100

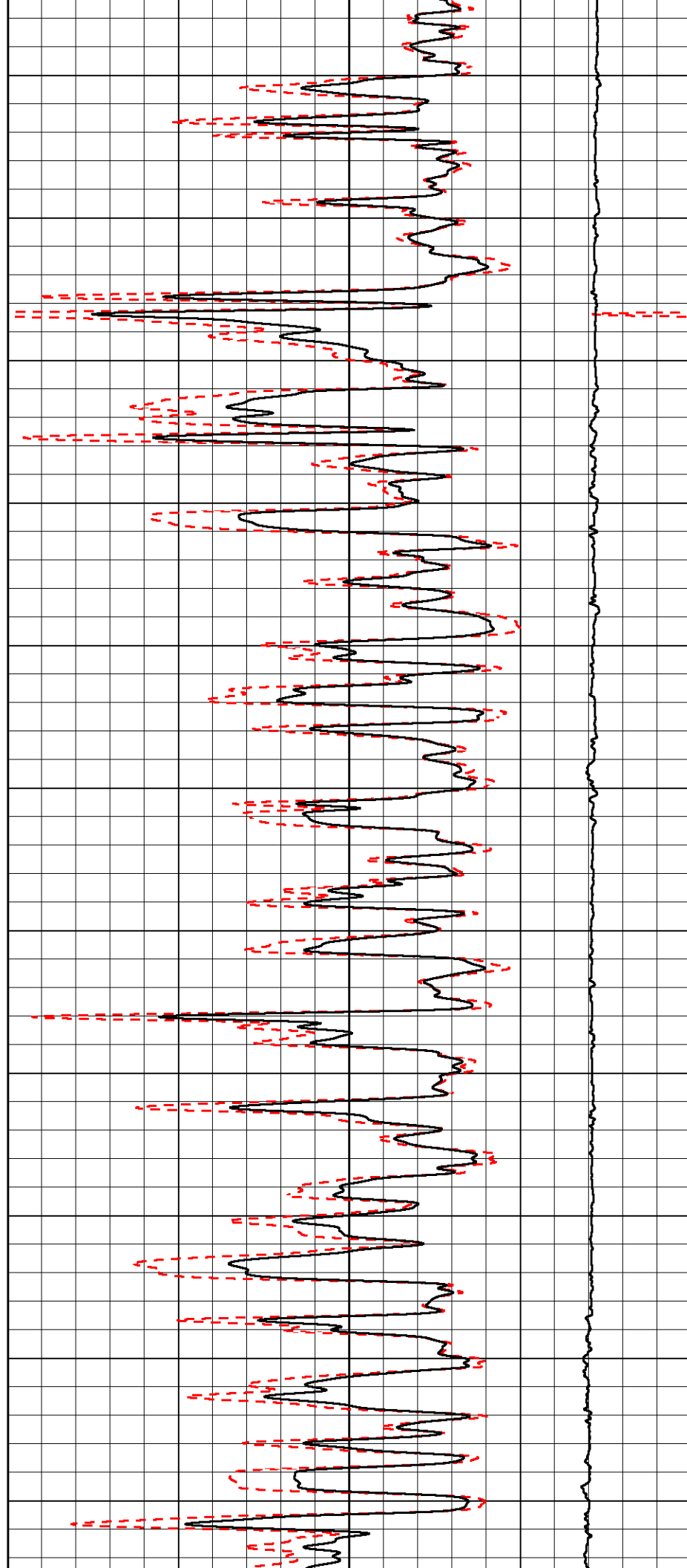
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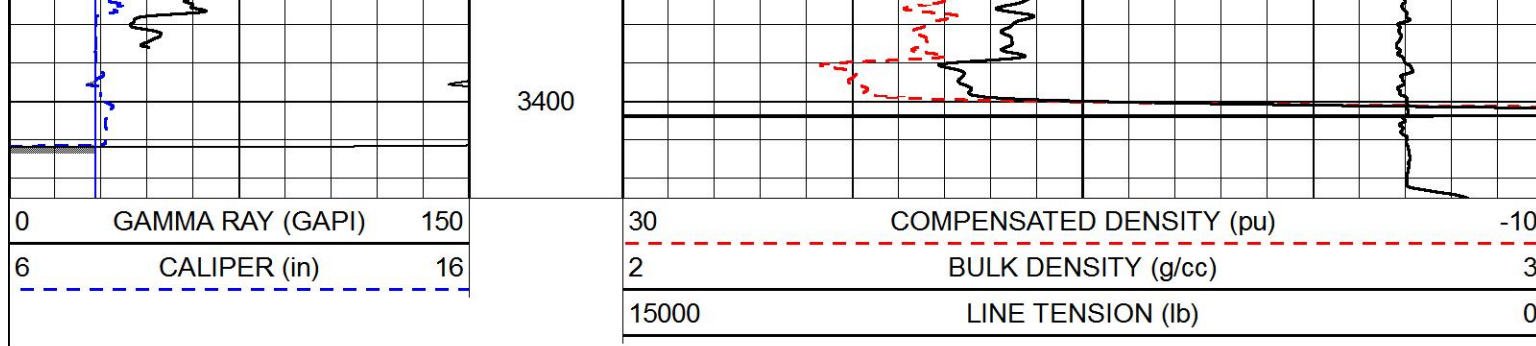
3200

3250

3300

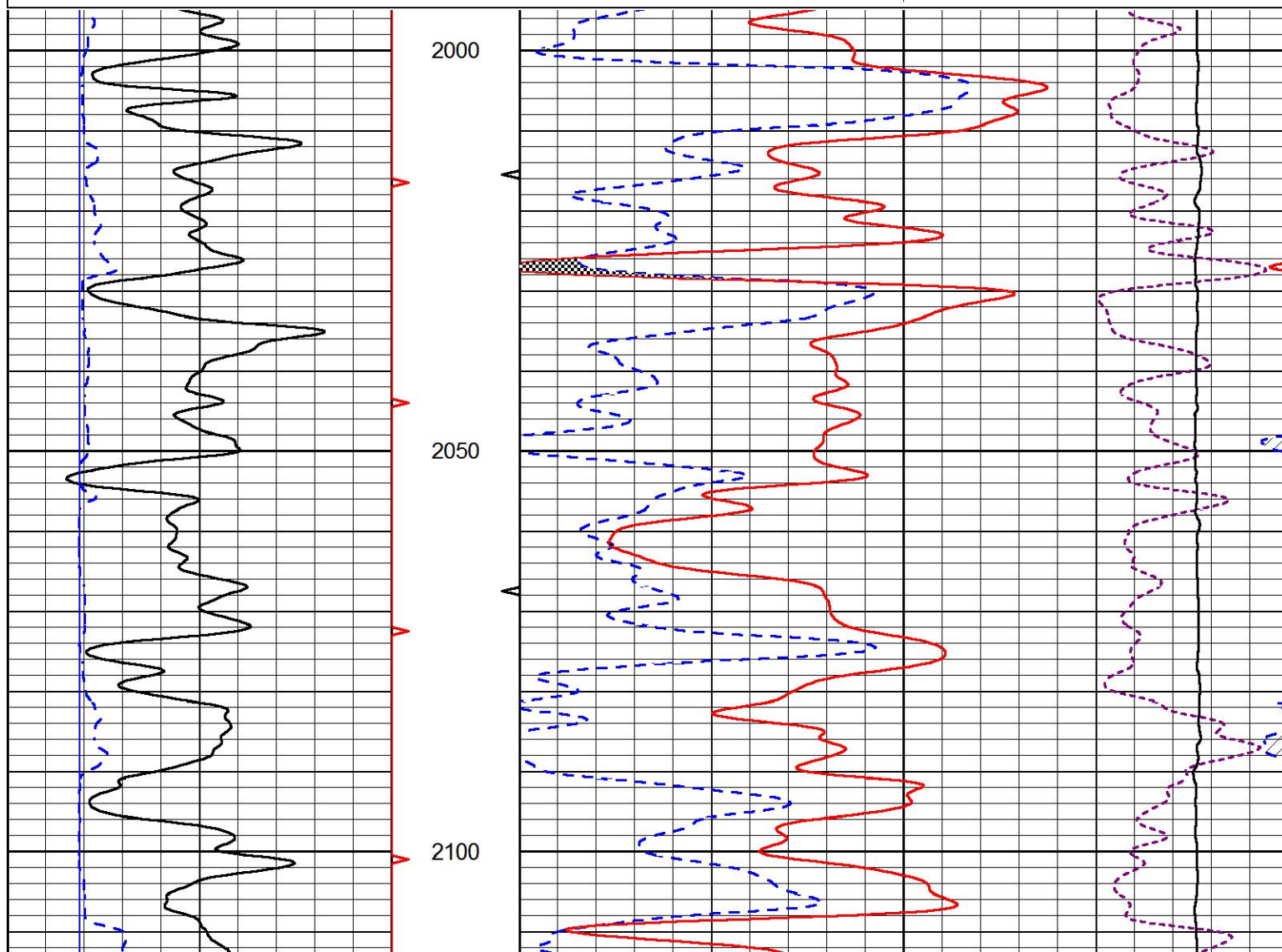
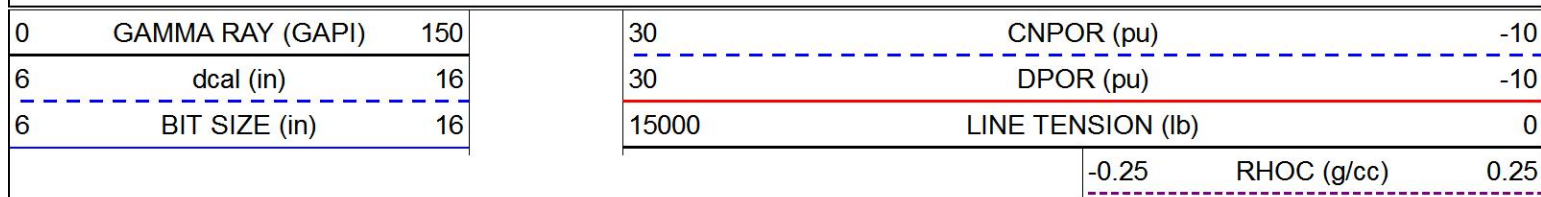
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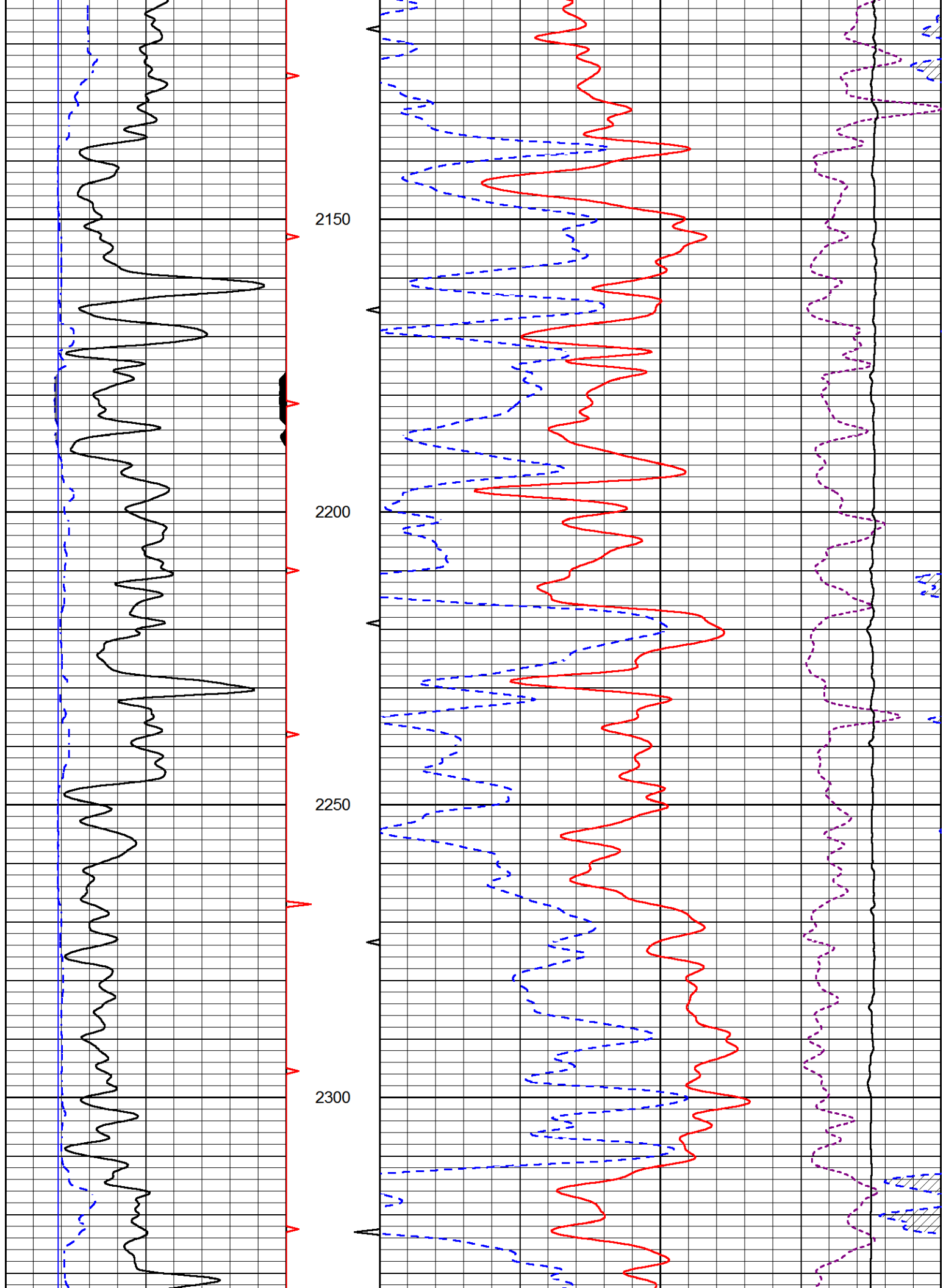


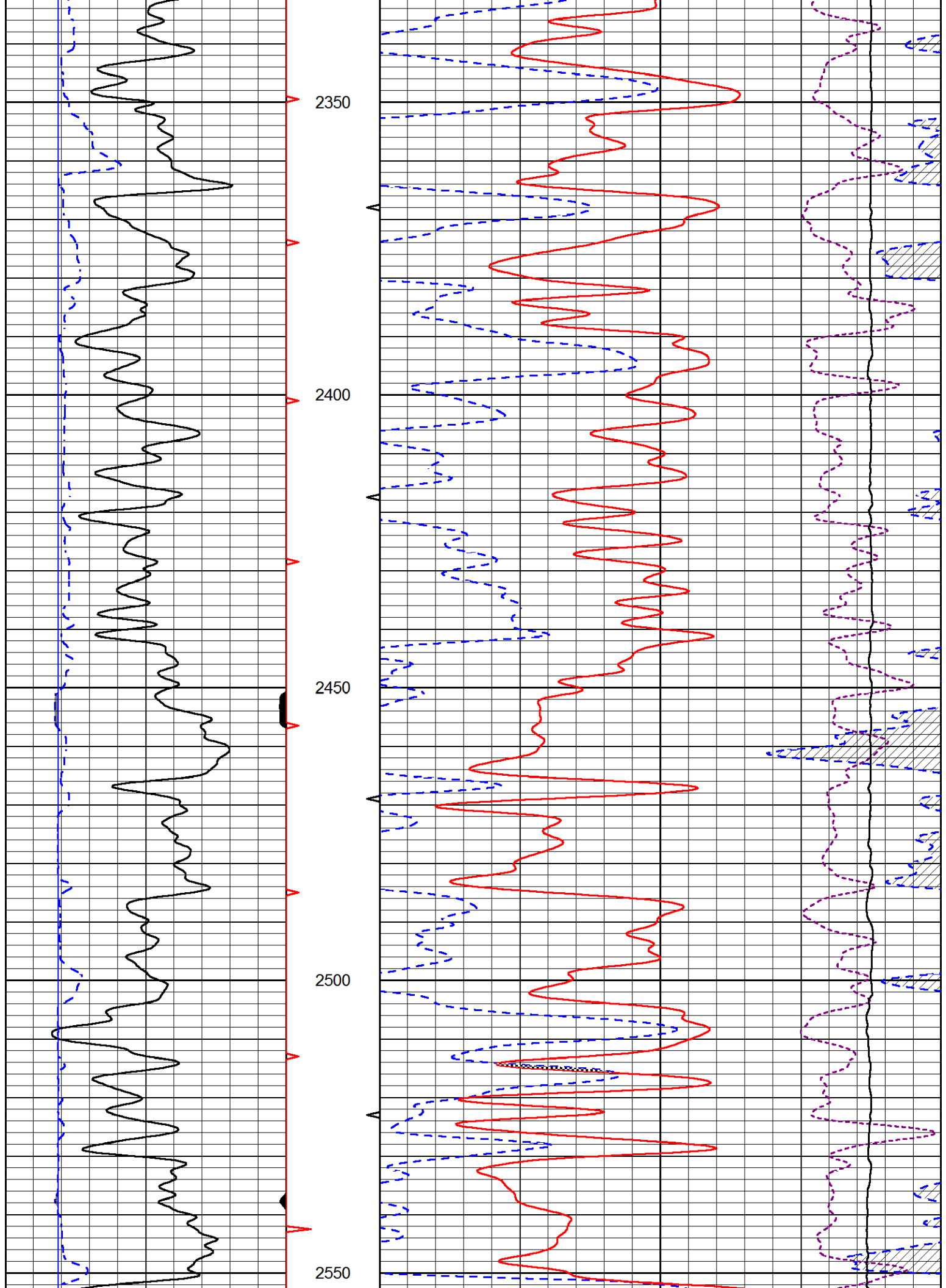


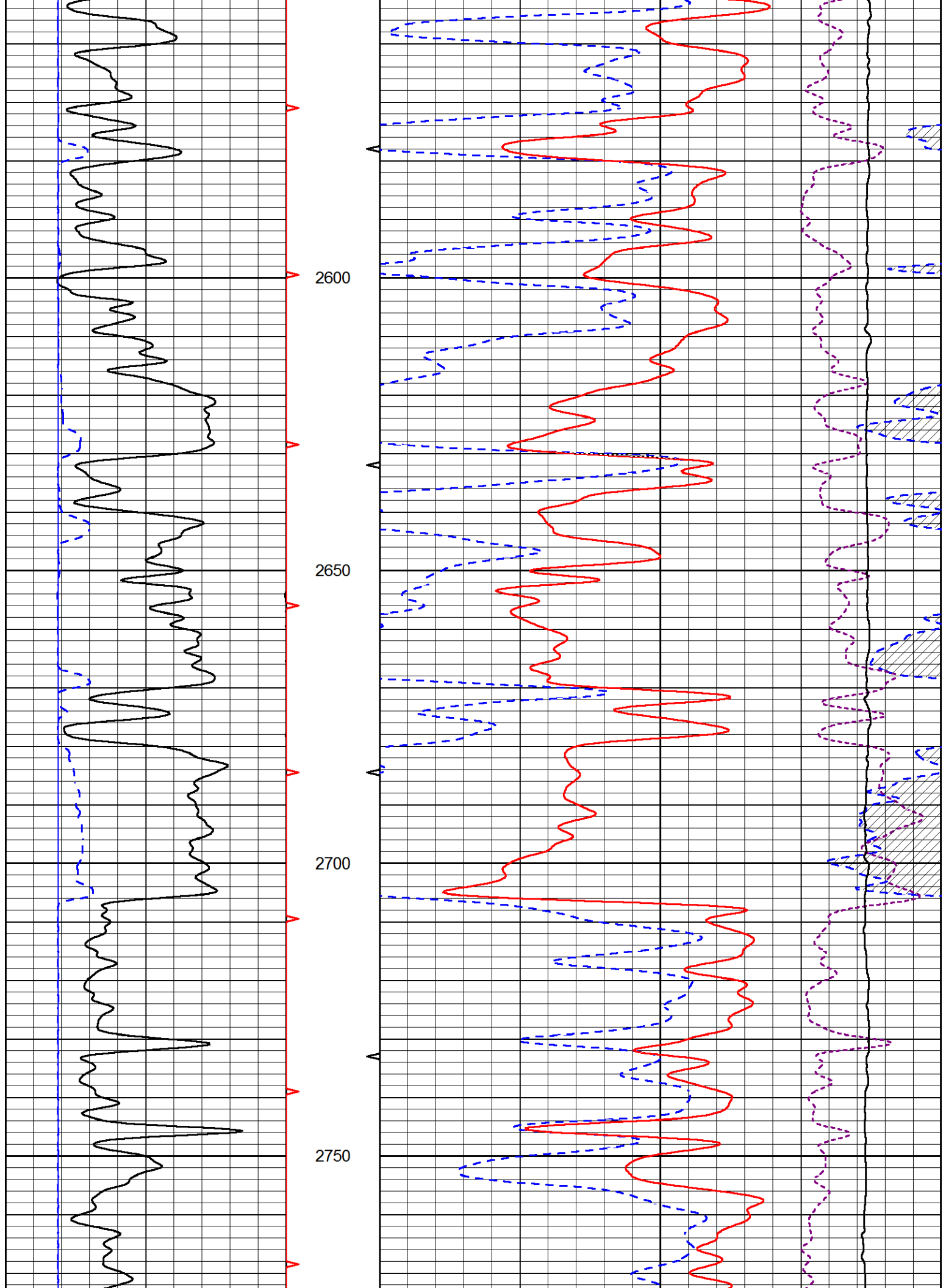
MAIN PASS

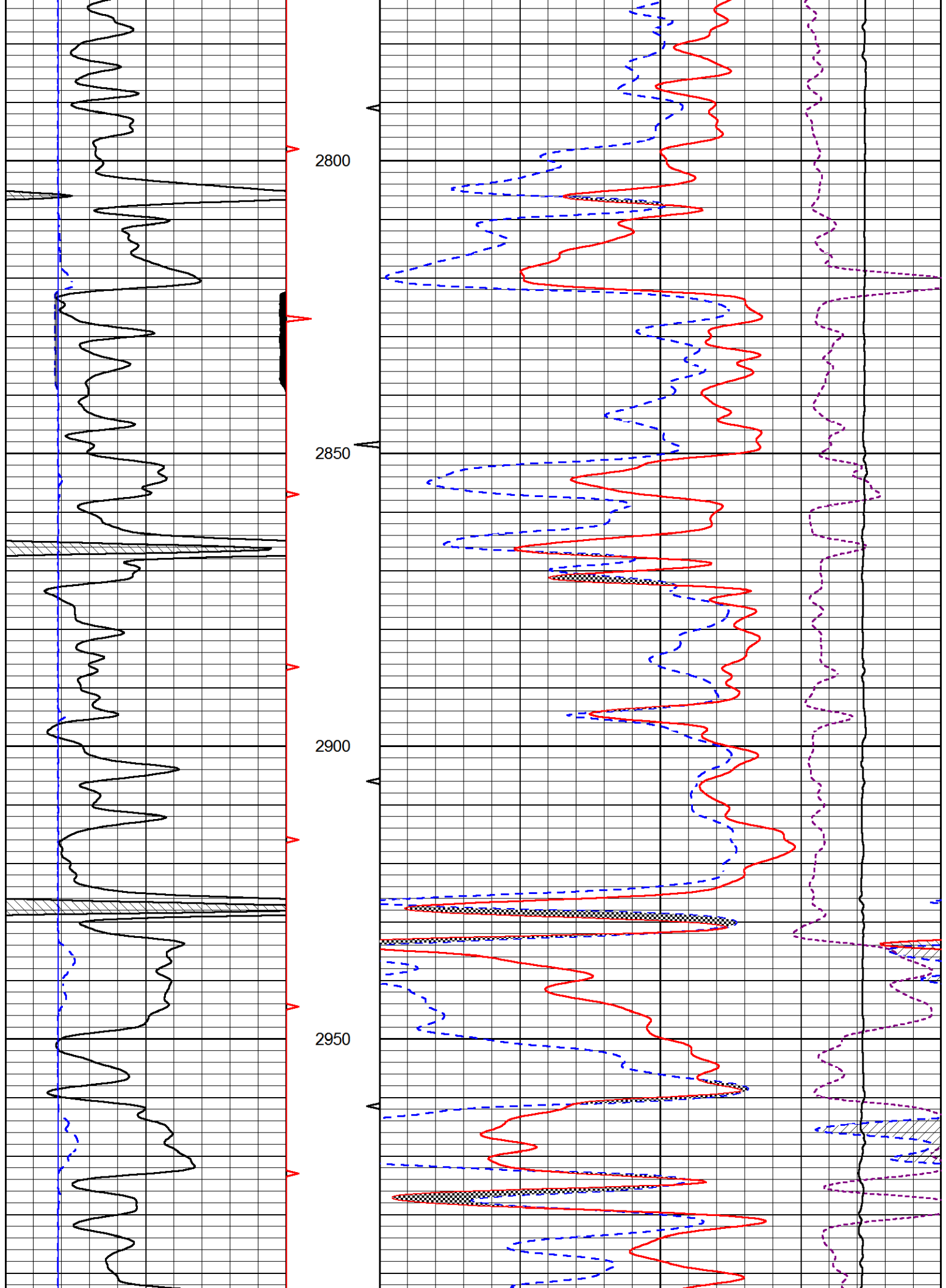
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 Dataset Pathname stackml/pass3.1
 Presentation Format cndlspec
 Dataset Creation Tue Mar 17 01:40:18 2020
 Charted by Depth in Feet scaled 1:240

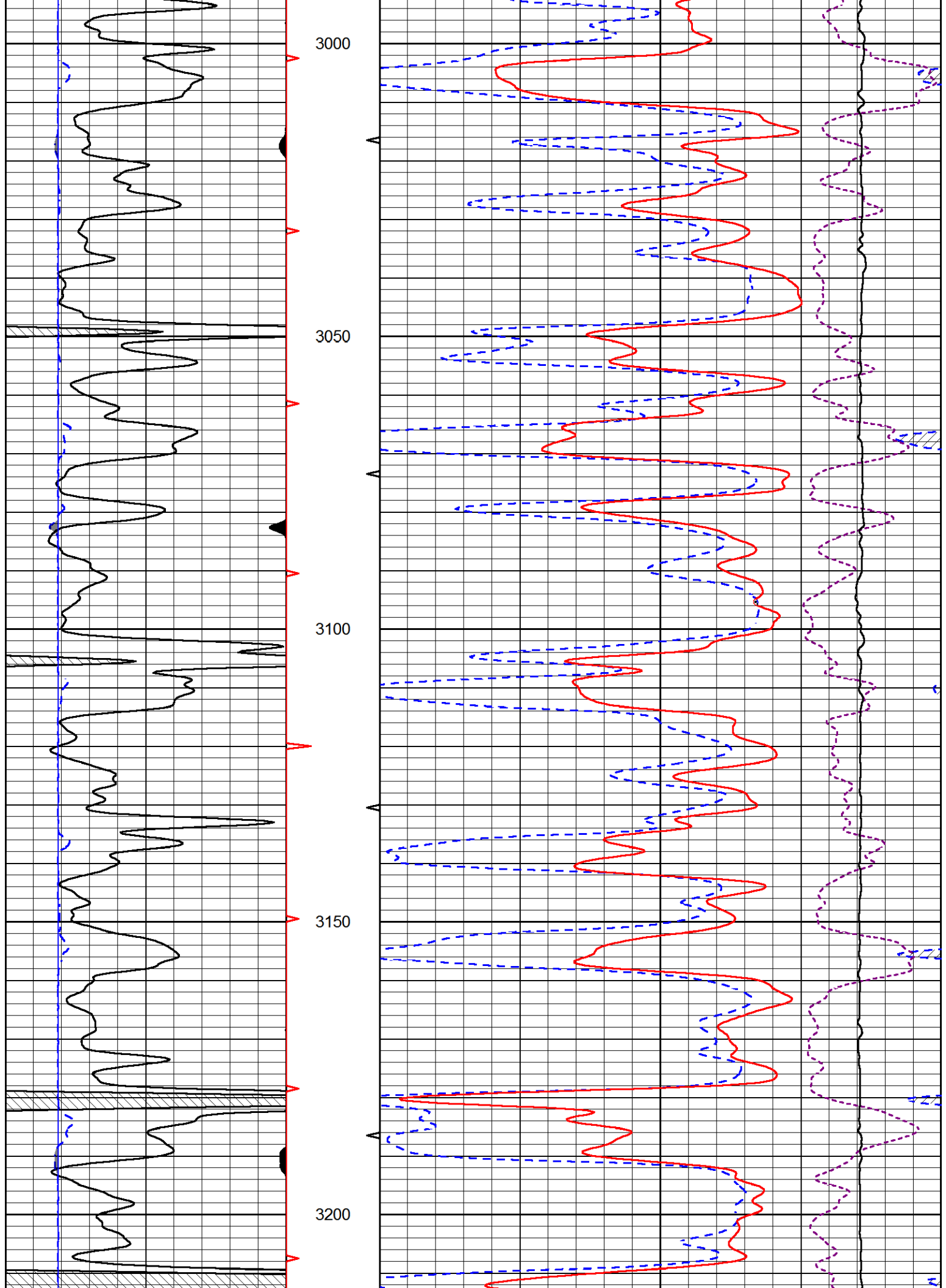


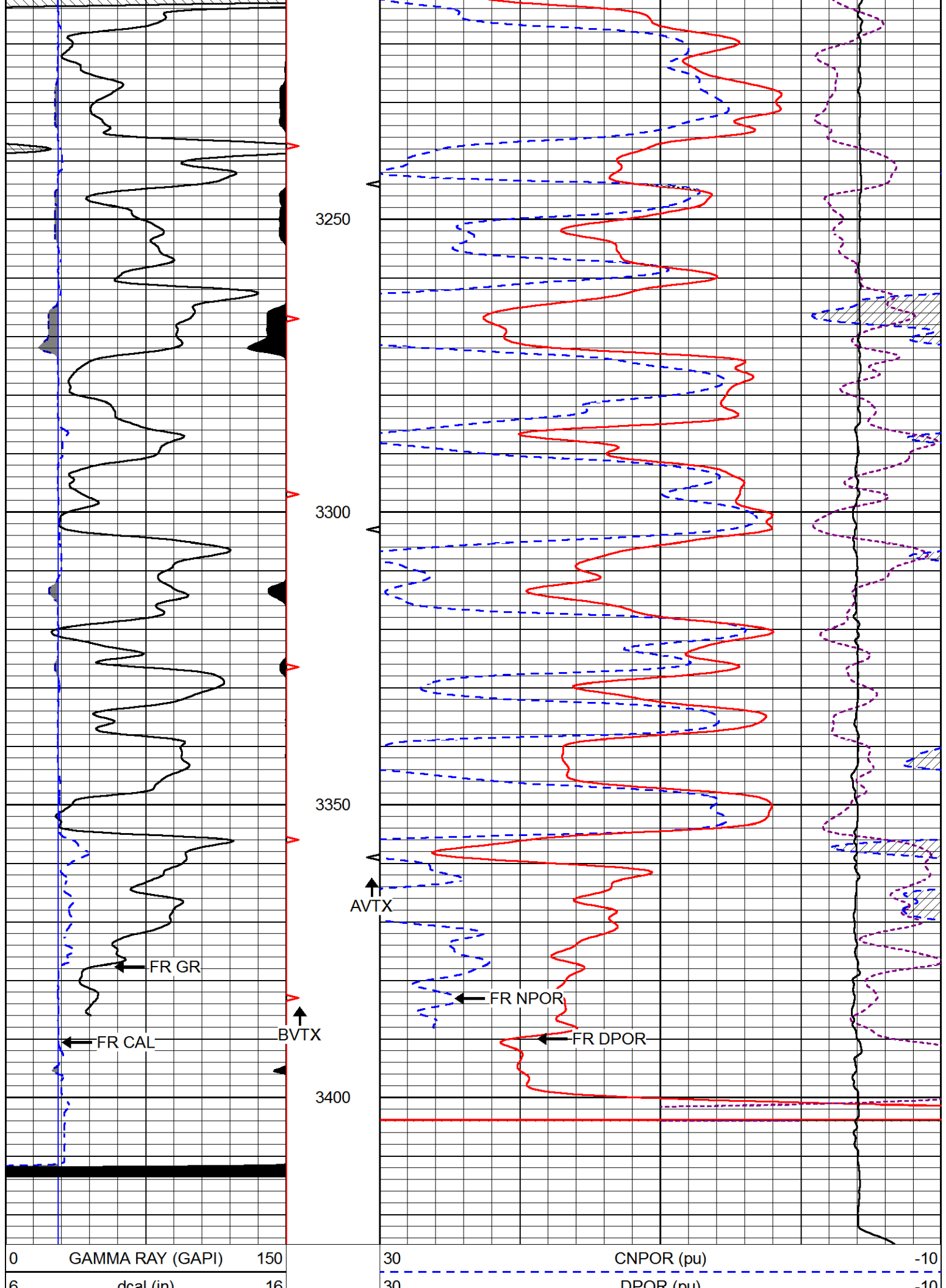












6	dcsl (in)	16
6	BIT SIZE (in)	16

30	DPOR (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	RHOC (g/cc)	0.25

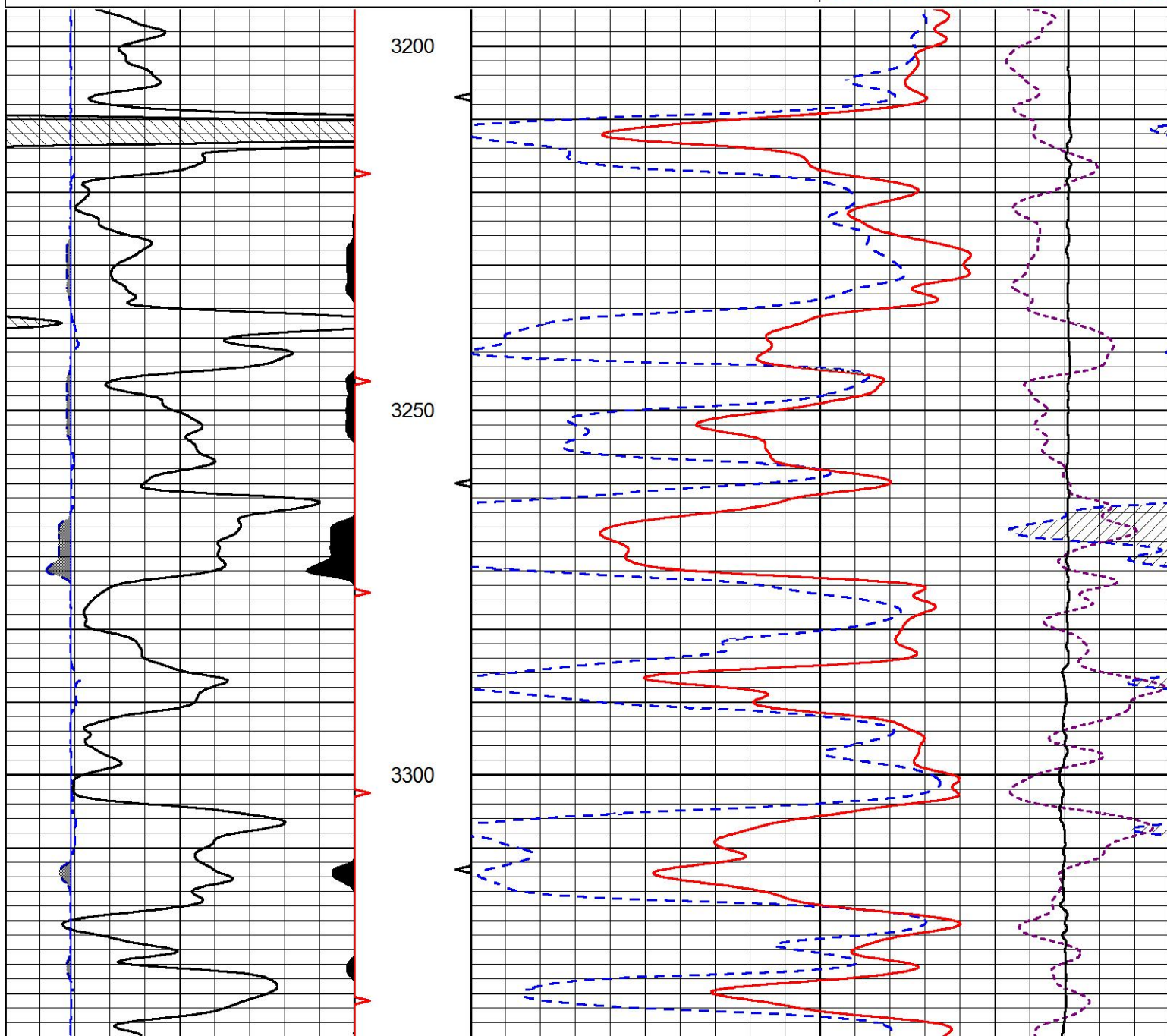


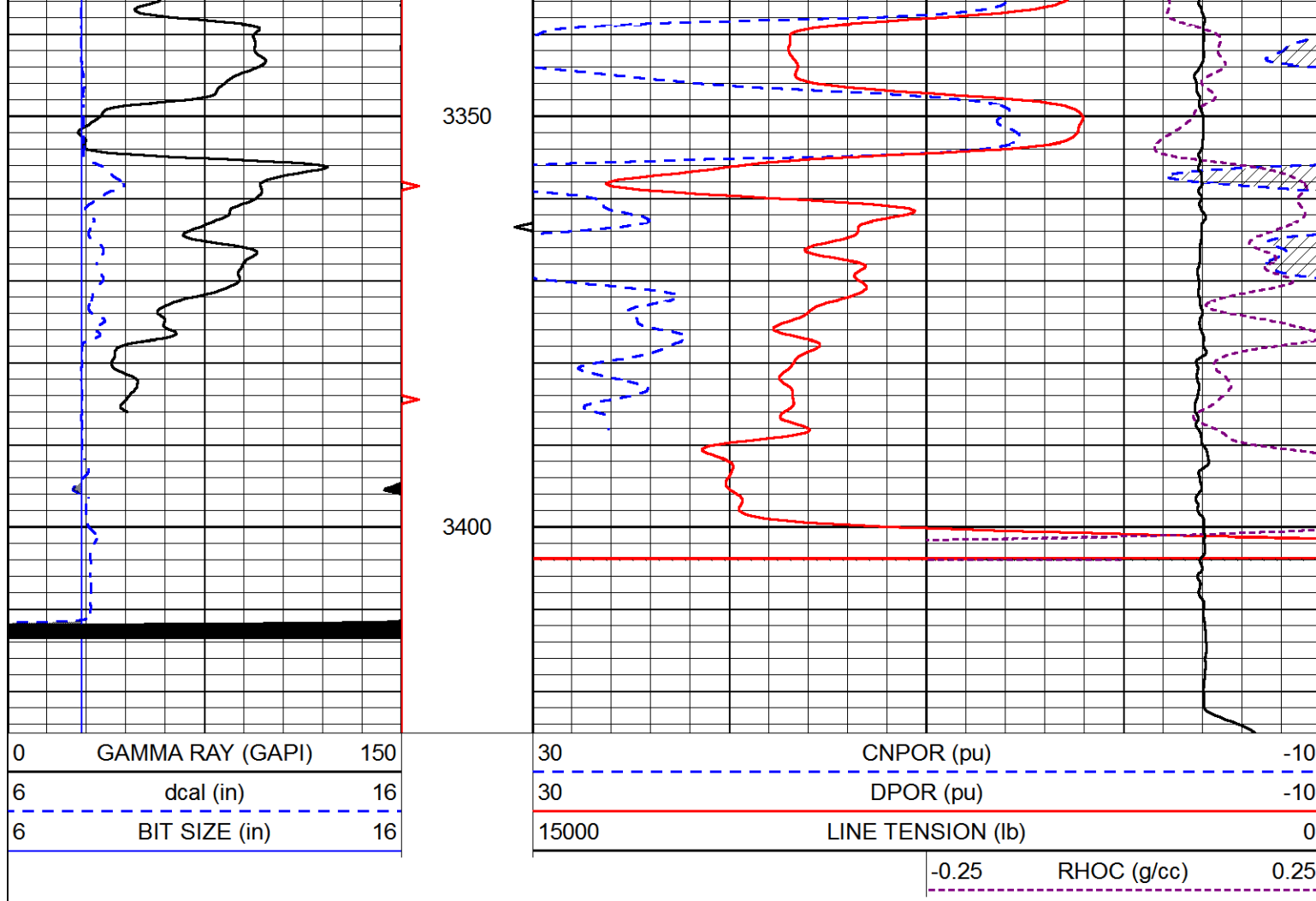
REPEAT SECTION

Database File carmen_schmitt_sb_unit_1.db
Dataset Pathname stackml/pass2.1
Presentation Format cndlspec
Dataset Creation Tue Mar 17 01:39:30 2020
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	dcsl (in)	16
6	BIT SIZE (in)	16

30	CNPOR (pu)	-10
30	DPOR (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	RHOC (g/cc)	0.25





Calibration Report							
Database File	carmen_schmitt_sb_unit_1.db						
Dataset Pathname	stackml/pass3.1						
Dataset Creation	Tue Mar 17 01:40:18 2020						
Dual Induction Calibration Report							
Serial-Model:		55-222-M&W					
Calibration Performed:		Tue Dec 10 05:11:10 2019					
Readings		References			Results		
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.500	-41.000
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.370	-15.000
Microlog Calibration Report							
Serial-Model:		UDM-01-PSI UDM ML					
Performed:		Fri May 31 06:10:42 2019					
Readings		References			Results		
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	45000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	25000.0000	-1.0000
Caliper	1.0019	1.2642	8.0000	22.0000	in	53.3774	-47.6000

Compensated Density Calibration Report

Serial-Model: 934-229-M&W
Source / Verifier: 21170B /
Master Calibration Performed: Thu Dec 19 15:46:53 2019

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3391.68	2392.26	cps
Aluminum	2.670	g/cc	645.86	1568.99	cps
Spine Angle = 75.73			Density/Spine Ratio = 0.535		
	Size		Reading		
Small Ring	4.00	in	1.39		
Large Ring	14.00	in	1.04		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

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: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Dec 10 05:11:34 2019

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



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