



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **AMERICAN WARRIOR, INC.**
Well **YOUNG NO. 1-12**
Field **WILDCAT**
County **GREELEY** State **KANSAS**

Location: API #: 15-071-20887-00-00

Other Services

SEC 12 TWP 16S RGE 42W
2299' FSL & 335' FWL

DIL
MEL

Permanent Datum **GROUND LEVEL** Elevation **3790'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 3801'
D.F. N/A
G.L. 3790'

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Date **9/25/2018**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **5200'**

Depth Logger **5197'**

Bottom Logged Interval **5168'**

Top Logged Interval **3800'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **3800**

Density **9.3**

Level **FULL**

Max. Rec. Temp. F **128 DEG/F**

Operating Rig Time **2 HOURS**

Equipment -- Location **108 HAYS**

Recorded By **J. HENRICKSON**

Witnessed By **LUKE THOMPSON**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	436'	8.625"	23#	0	436'
TWO	7.875"	436'	TD				

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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.

SHARON SPRINGS KANSAS
WEST TO ROAD 9, SOUTH TO COUNTY LINE
3/4 WEST, 1 1/2 SOUTH, EAST INTO

Log Measured From: **KELLY BUSHING** 11 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: **LUKE THOMPSON**
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\american_warrior_young_1_12.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
0	0	0	0	0	0	0	0
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	0	0	Off	0

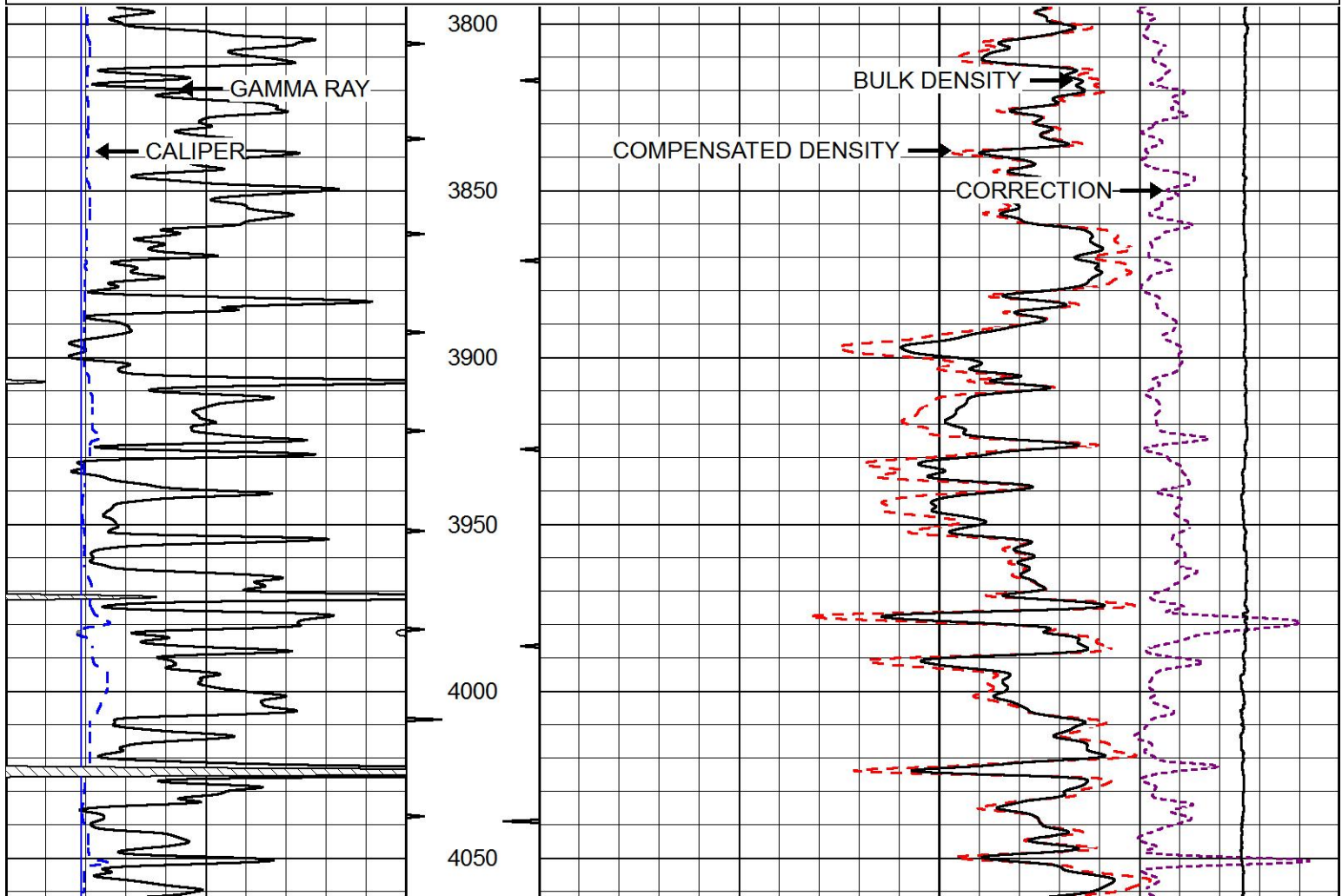


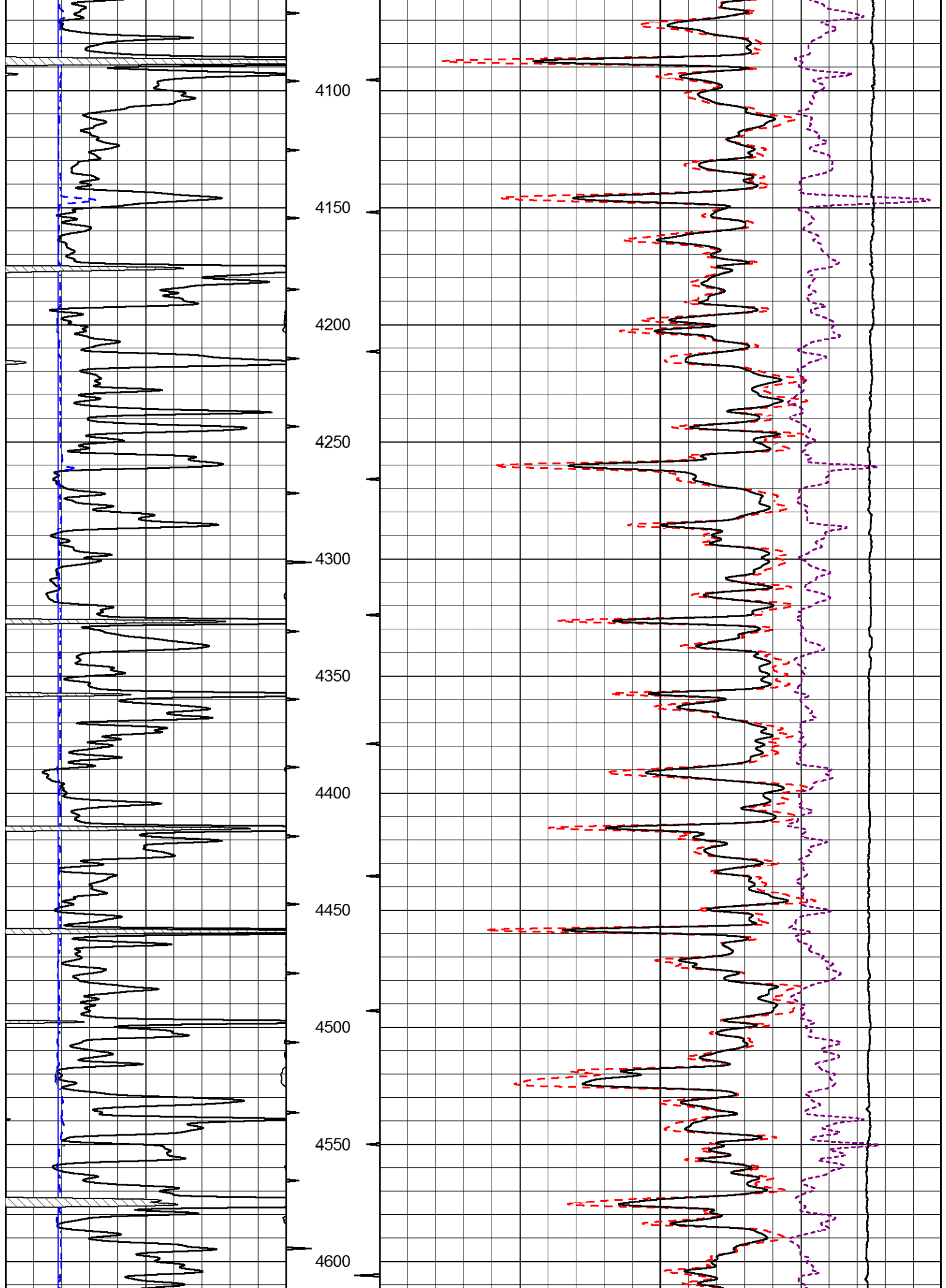
MAIN PASS

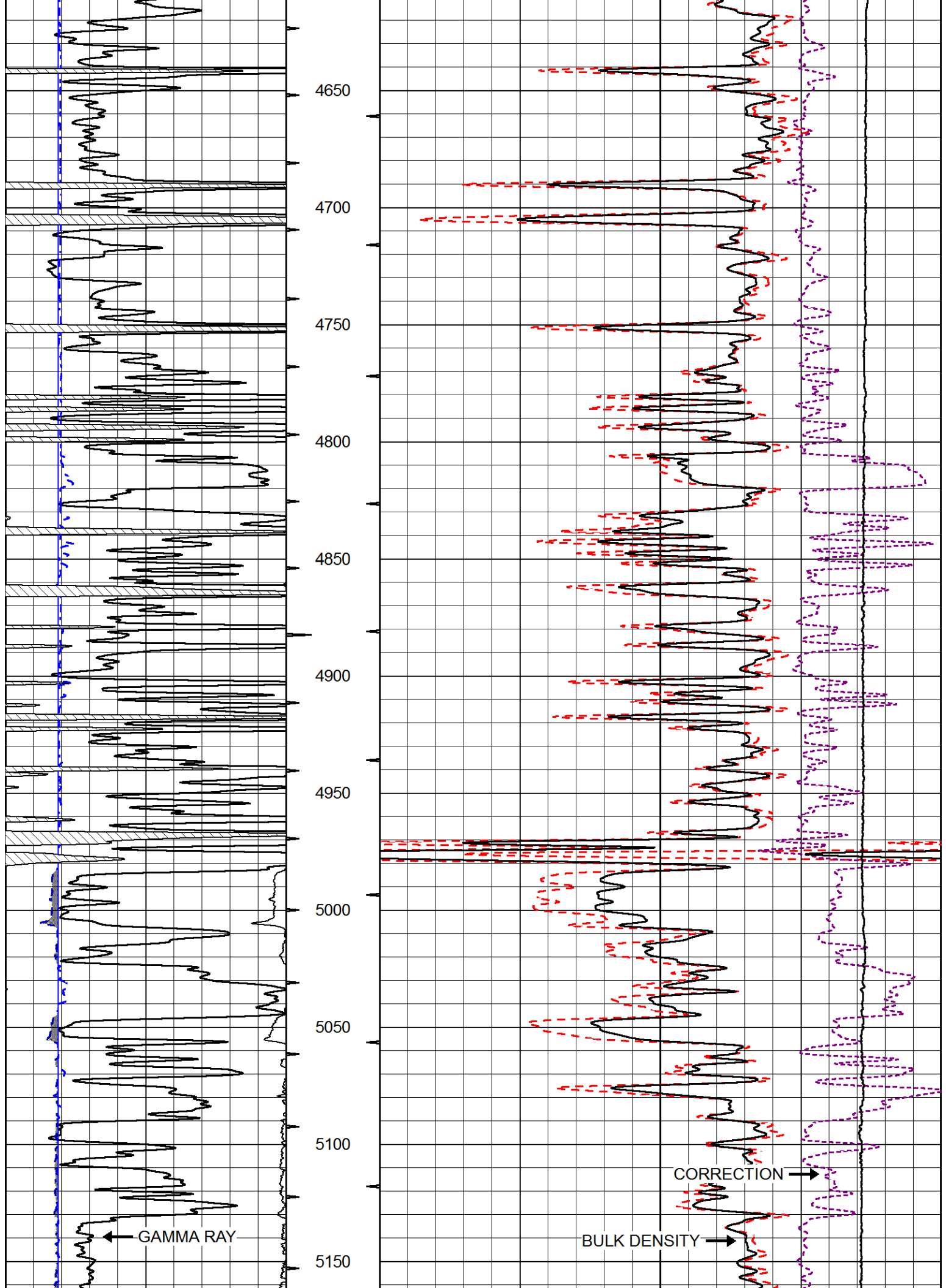
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Dataset Pathname stackml/pass4.1
Presentation Format cdl
Dataset Creation Tue Sep 25 14:02:45 2018
Charted by Depth in Feet scaled 1:600

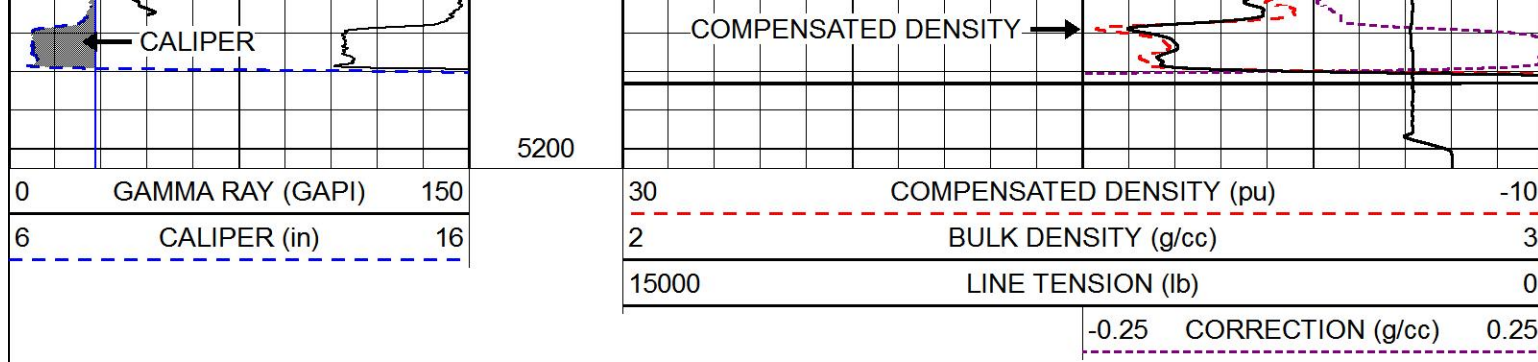
0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25



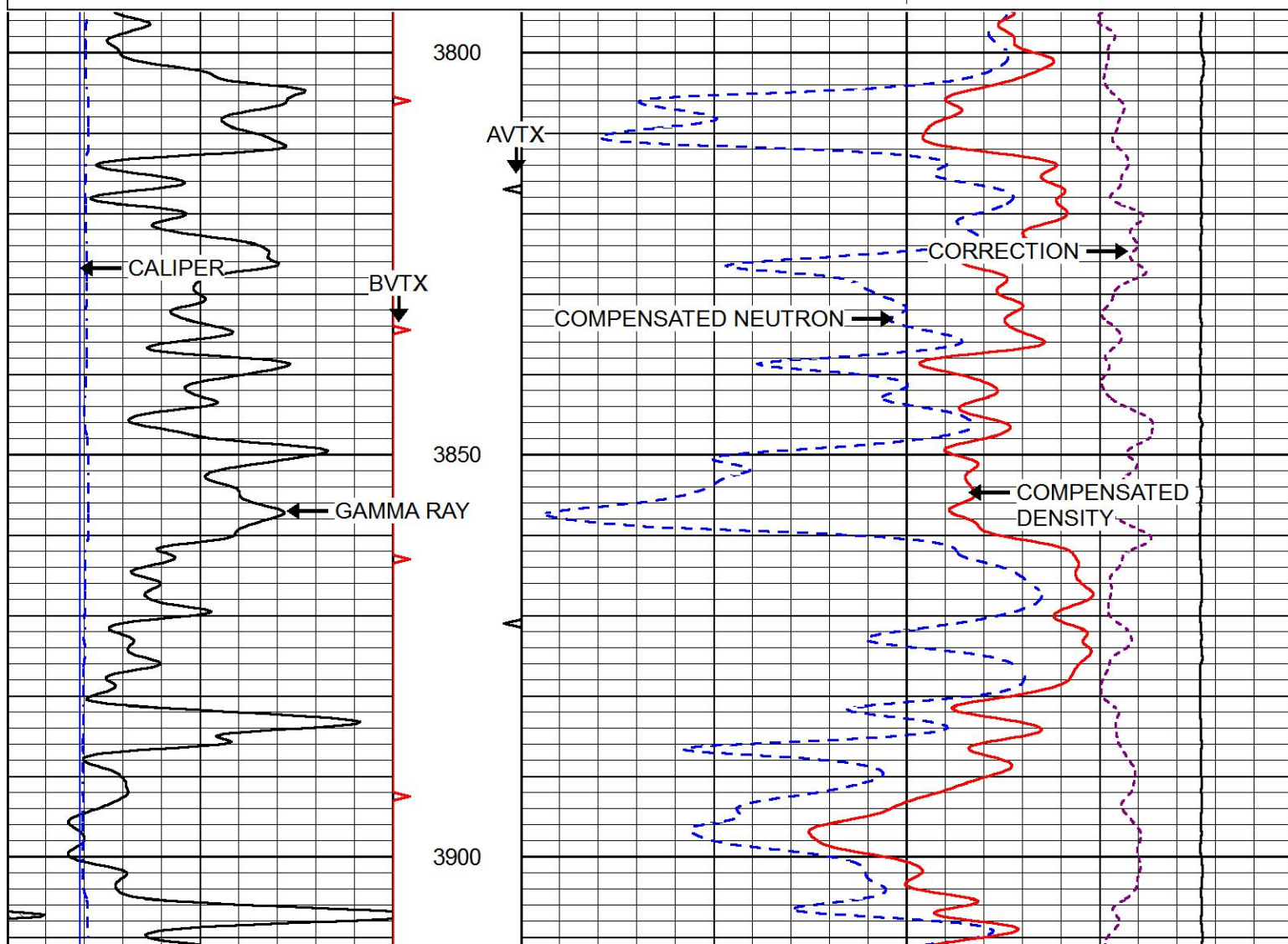
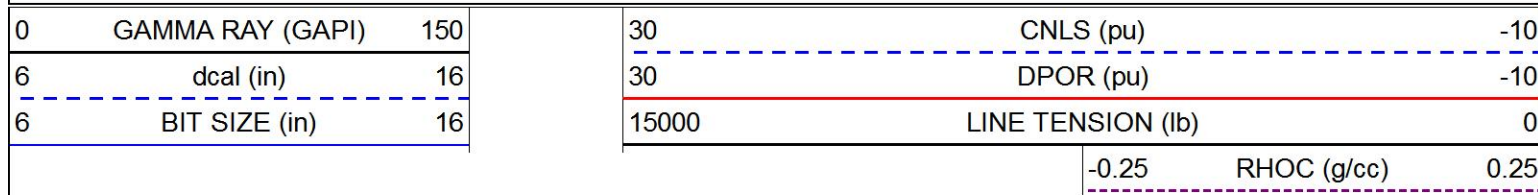


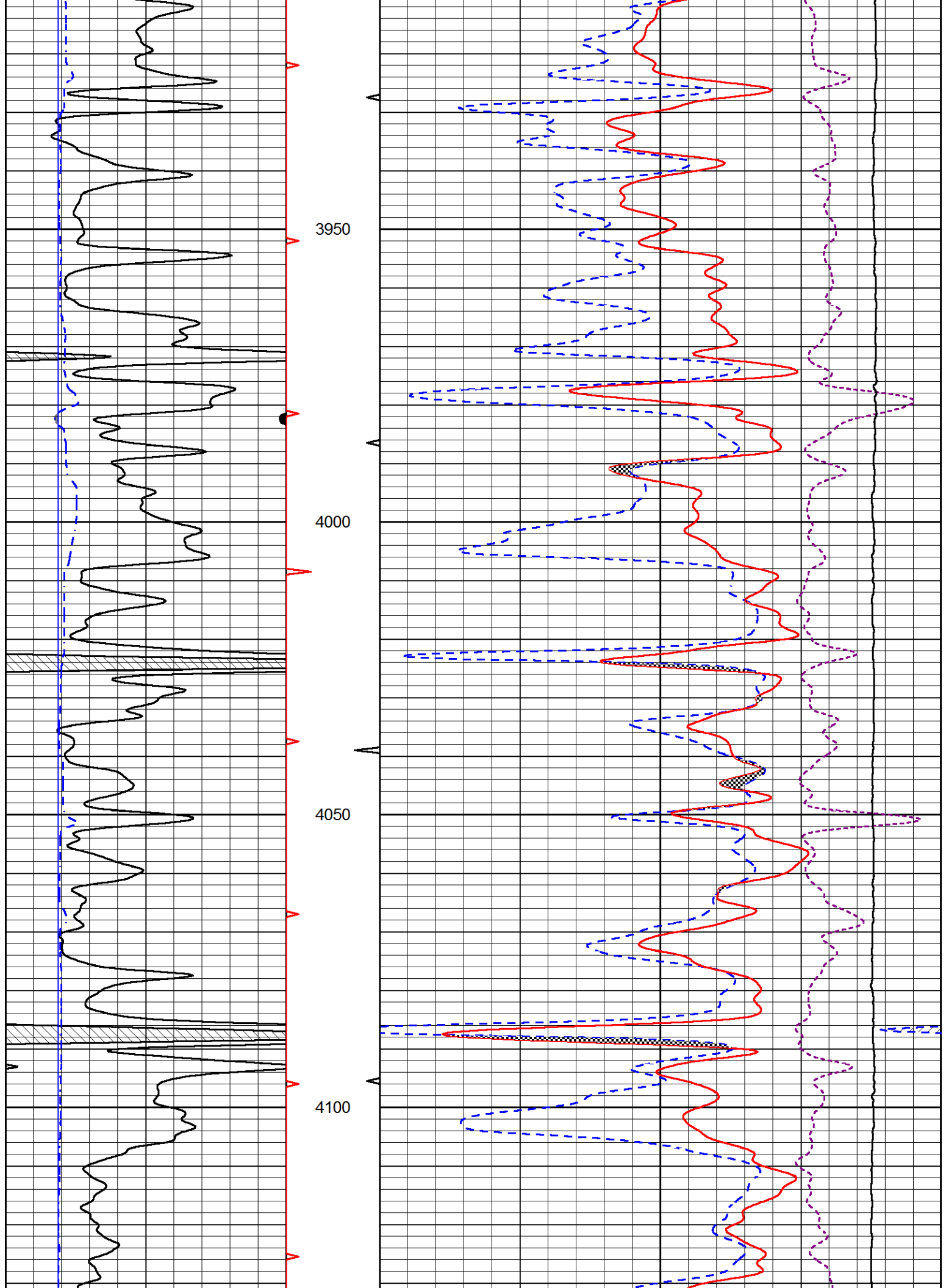


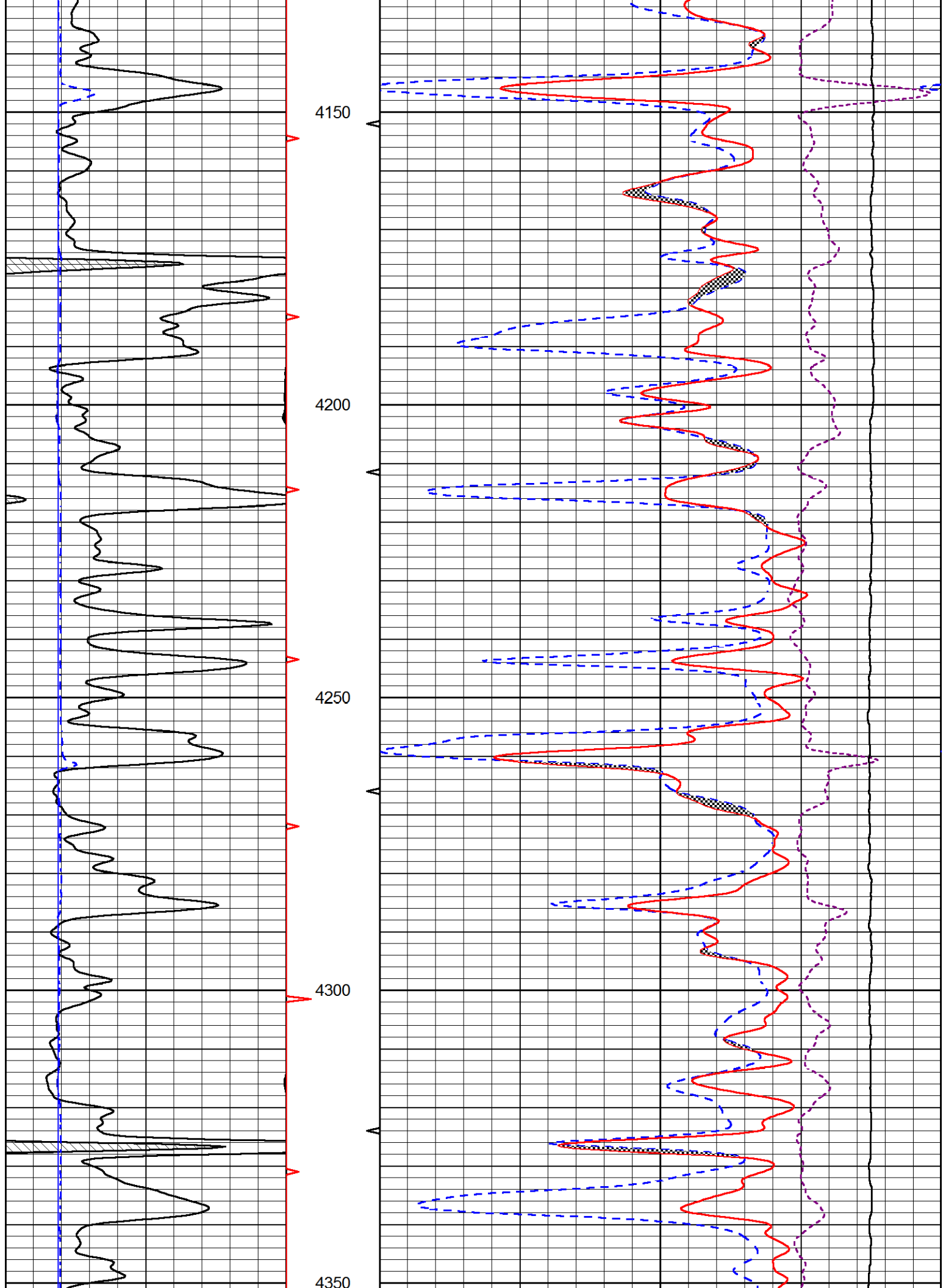


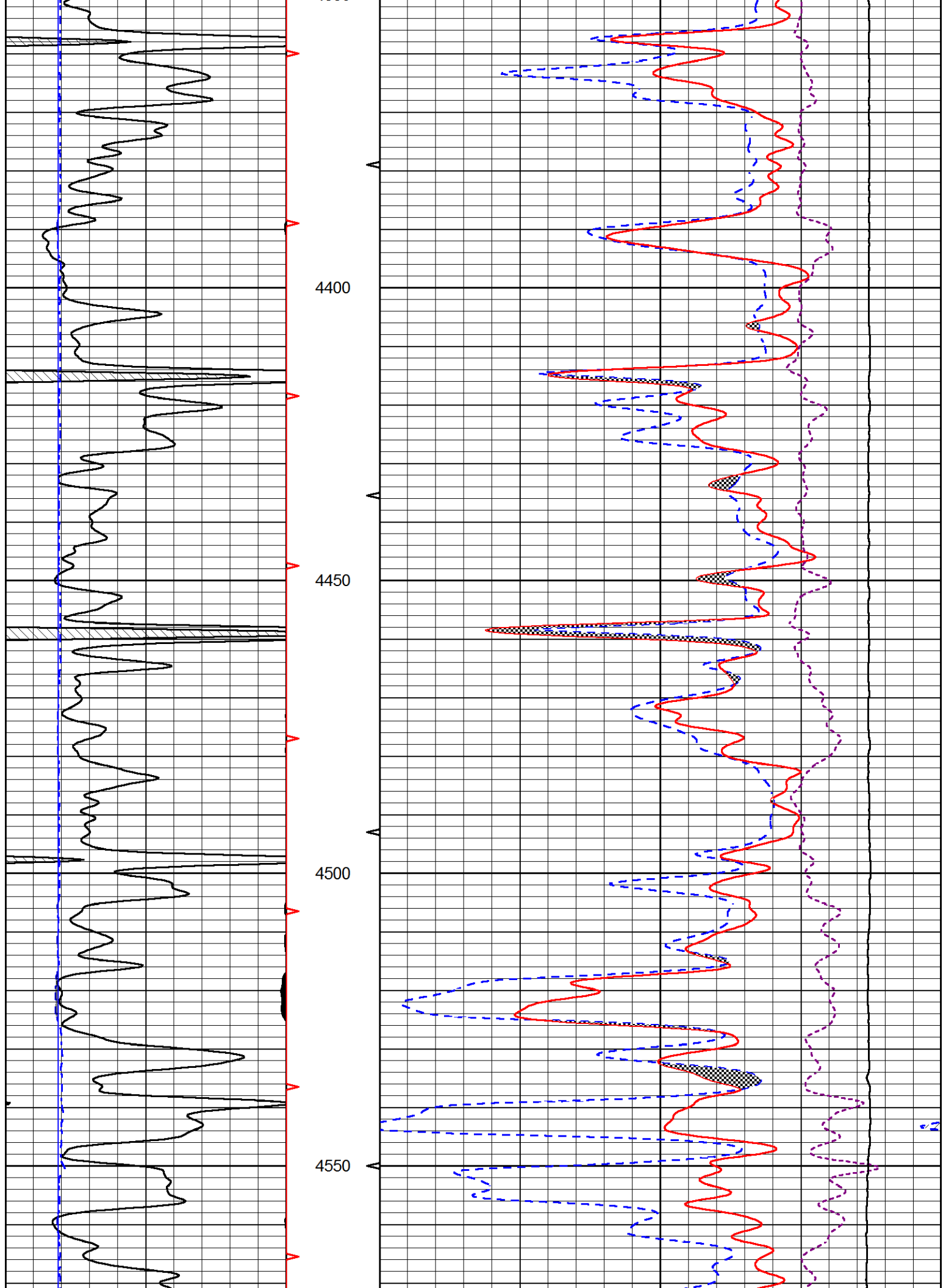
MAIN PASS

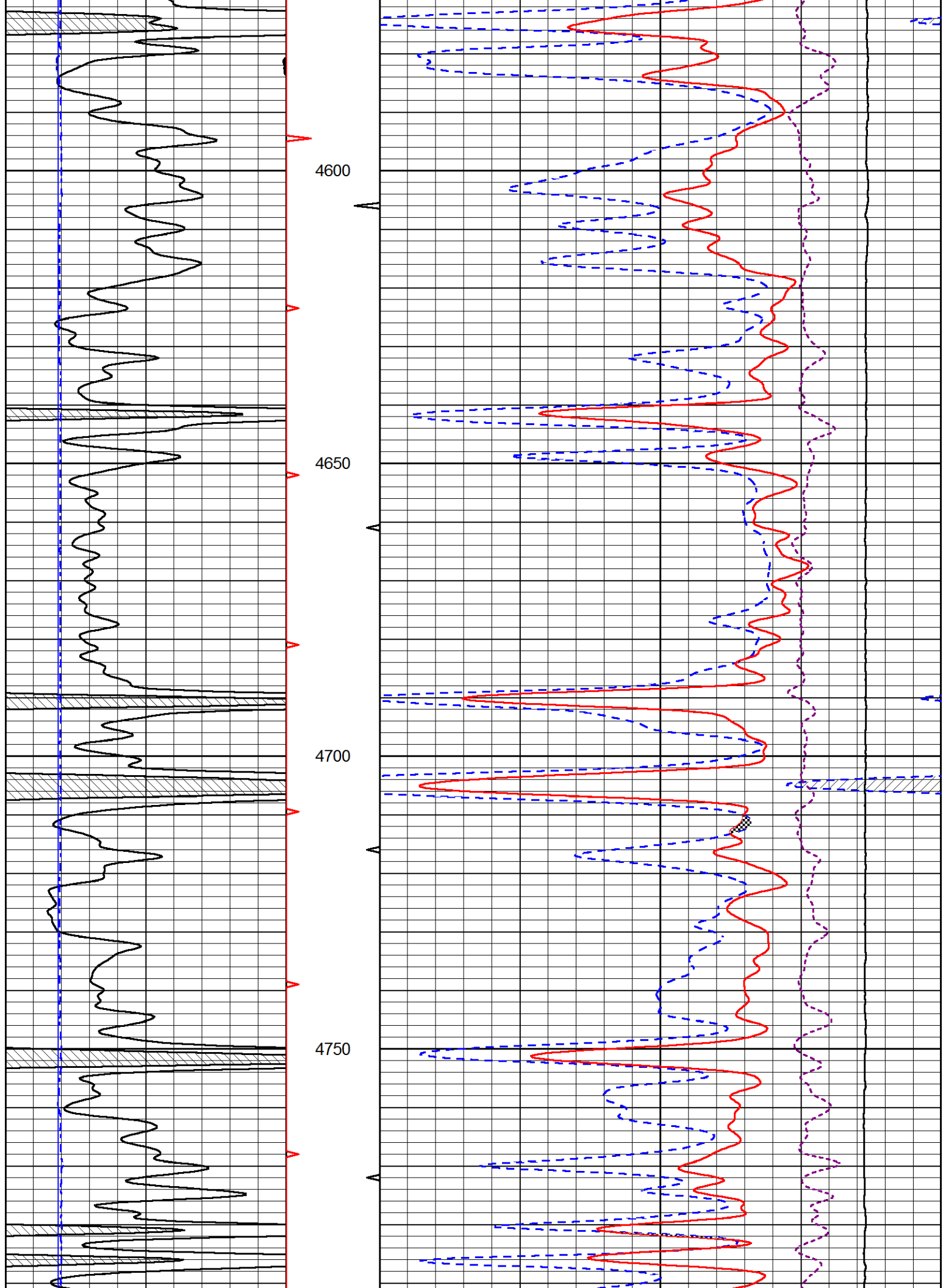
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 Presentation Format cndlspec
 Dataset Creation Tue Sep 25 14:02:45 2018
 Charted by Depth in Feet scaled 1:240

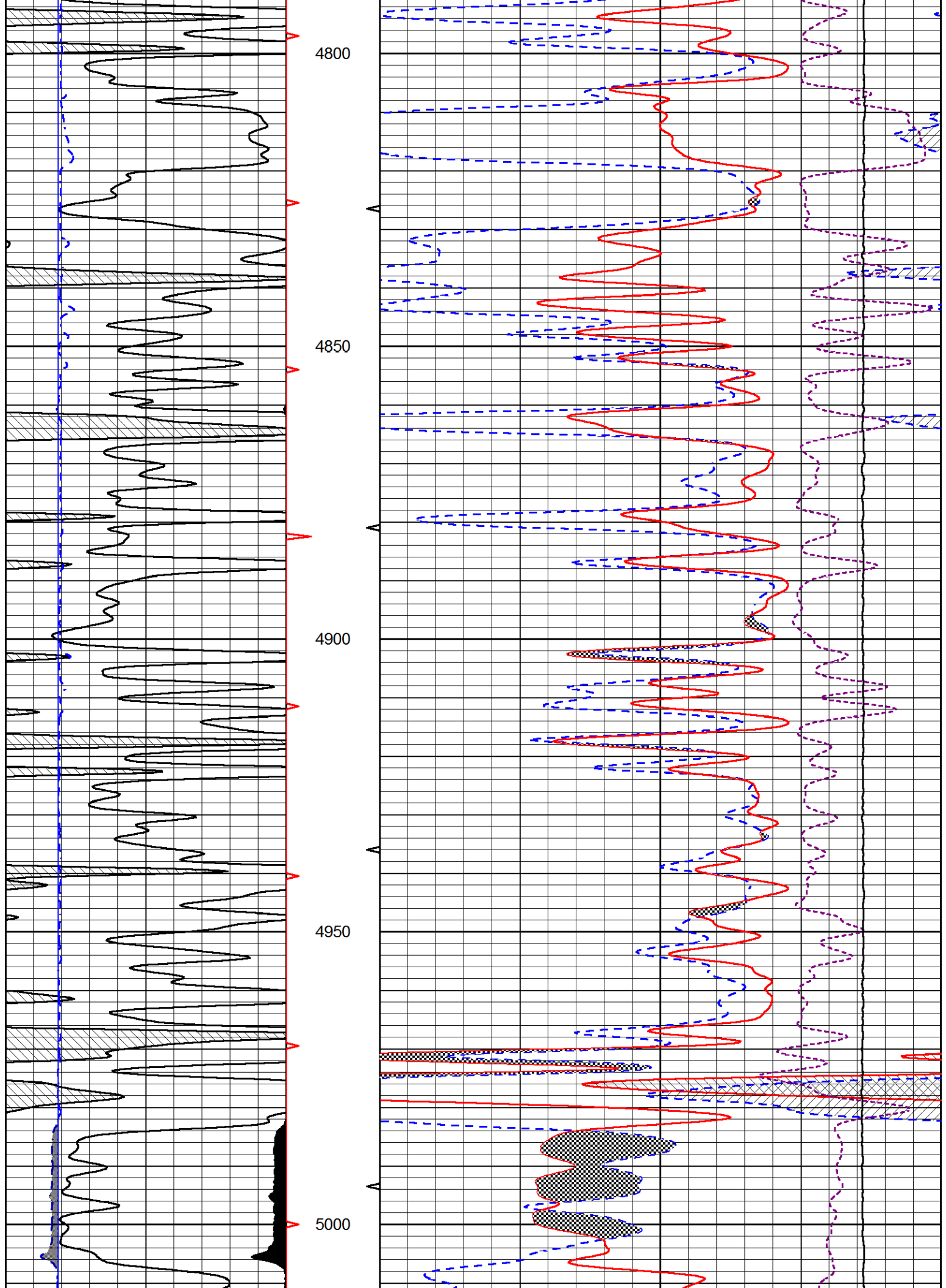


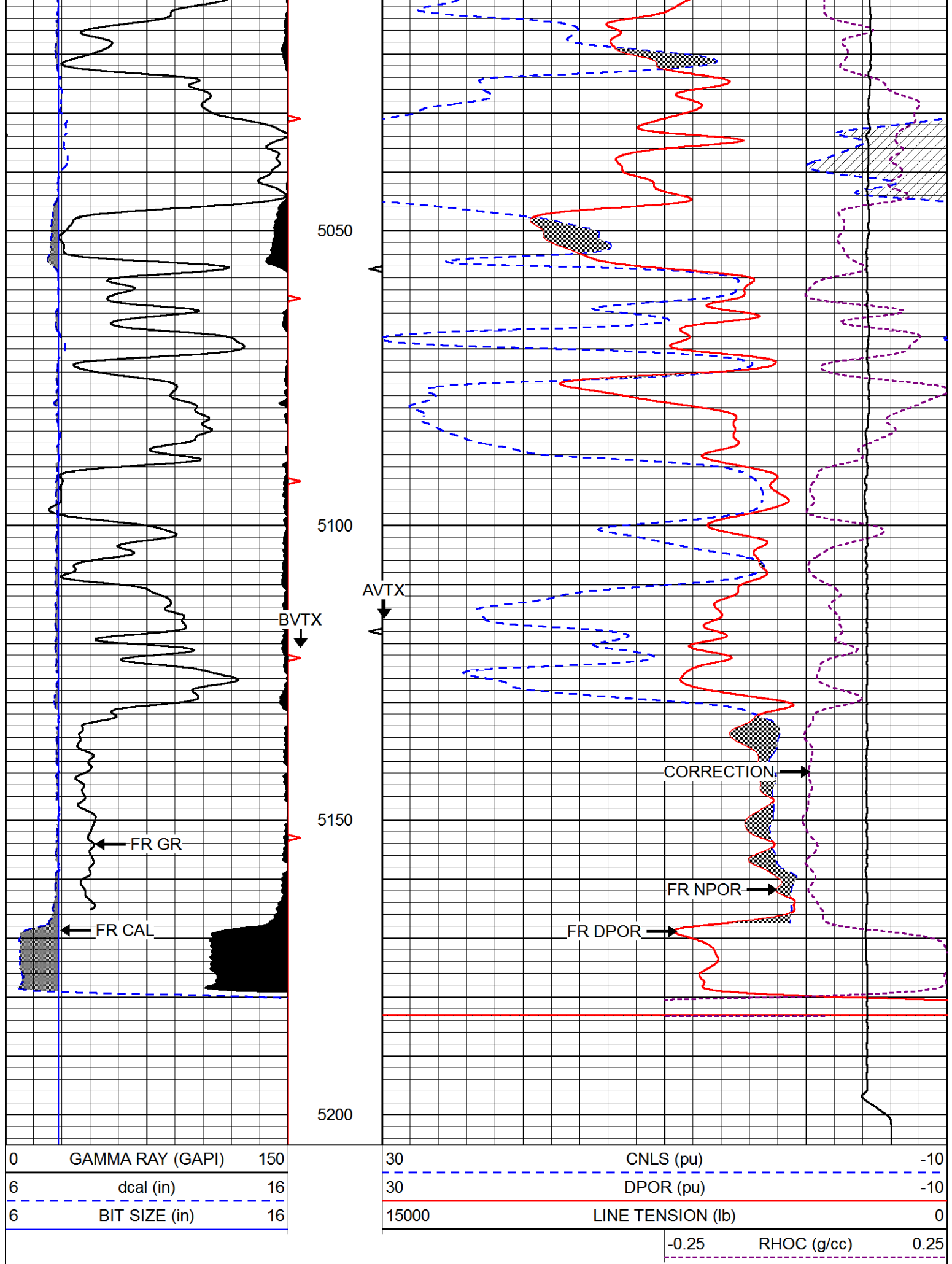










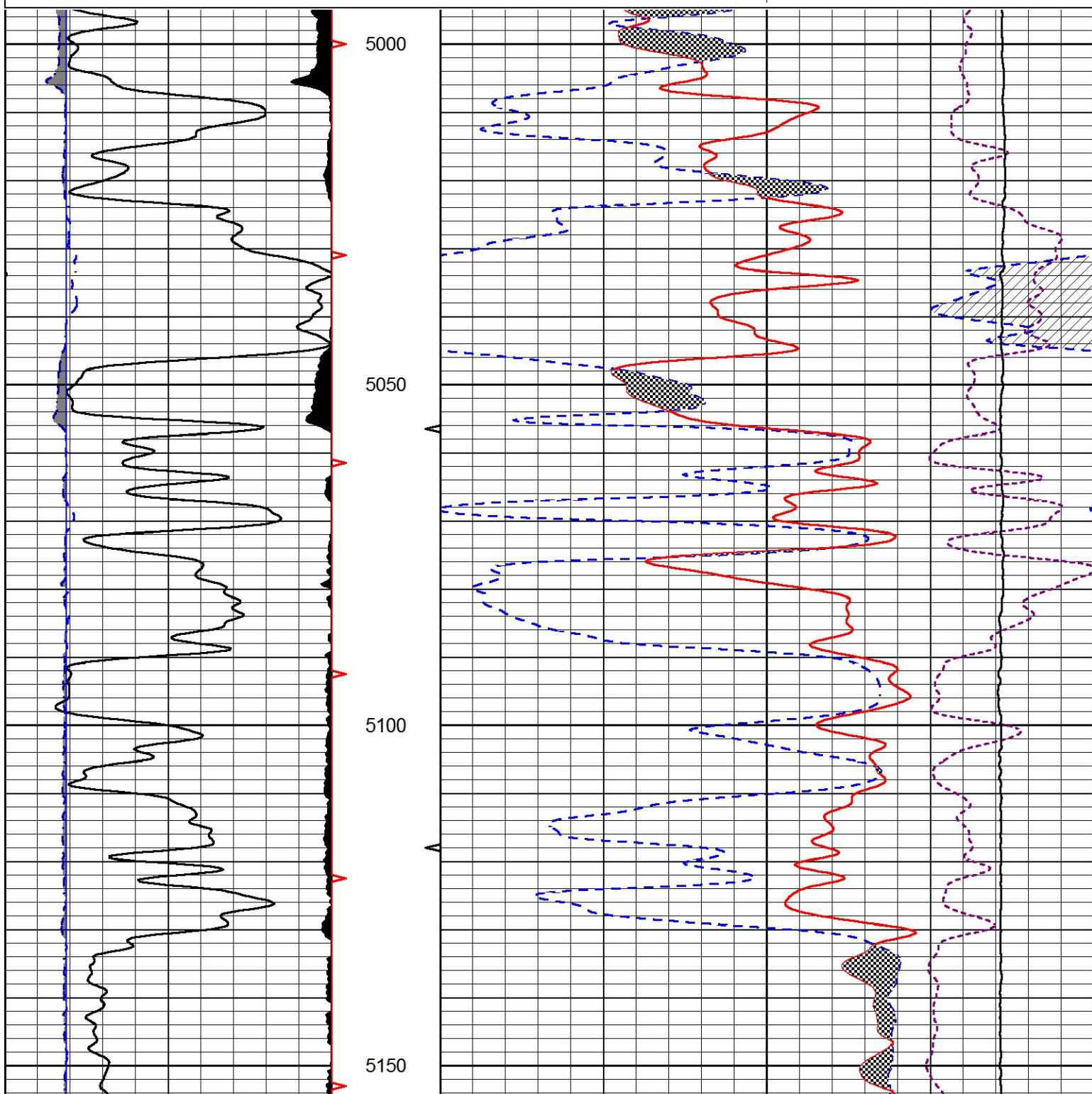


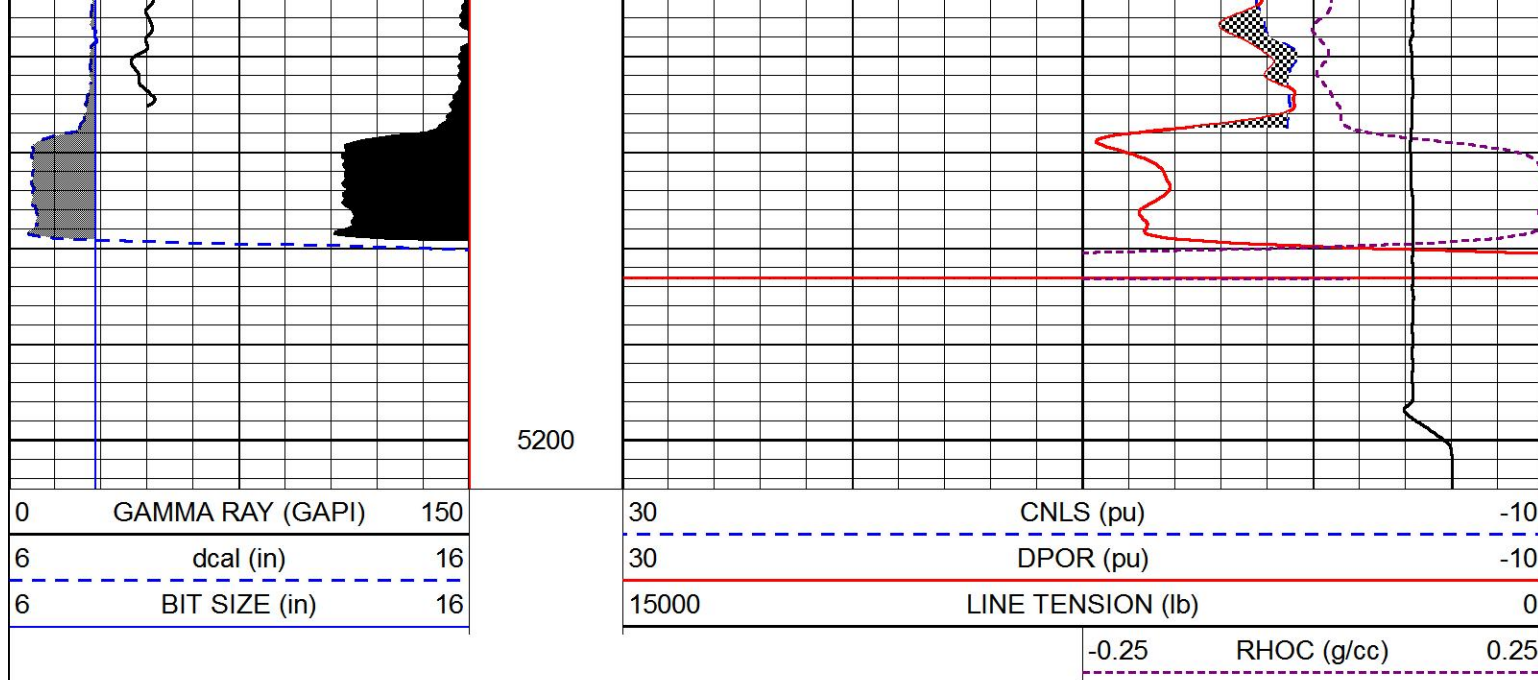
REPEAT SECTION

Database File american_warrior_young_1_12.db
 Dataset Pathname stackml/pass2.1
 Presentation Format cndlspec
 Dataset Creation Tue Sep 25 14:08:52 2018
 Charted by Depth in Feet scaled 1:240

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

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





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