



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **CONCORDE RESOURCES CORP.**
Well **RETA NO. 2-27**
Field **WILDCAT**
County **LOGAN** State **KANSAS**

Location: API #: 15-109-21515-00-00

1924' FNL & 335' FEL

38.723883988

SEC 27 TWP 15S RGE 34W

Other Services
DIL
MEL

Permanent Datum **GROUND LEVEL** Elevation **2977'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 2987'
D.F. N/A
G.L. 2977'

Date **8/2/2017**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **4658'**

Depth Logger **4657'**

Bottom Logged Interval **4628'**

Top Logged Interval **3600'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **4,500**

Density **9.1**

Level **FULL**

Max. Rec. Temp. F **123 DEG/F**

Operating Rig Time **3 HOURS**

Equipment -- Location **108 HAYS**

Recorded By **J. HENRICKSON**

Witnessed By **LARRY NICHOLSON**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	306'	8.625"	23#	0	306'
TWO	7.875"	306'	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.

OAKLEY KANSAS

SOUTH TO GOLD, WEST TO 390, SOUTH TO ELK, WEST TO 340,
SOUTH TO COYOTE, WEST TO 320, 1/2 SOUTH, WEST INTO
(NEXT TO GRAIN BINS)

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: **LARRY NICHOLSON**

Secondary Witness:

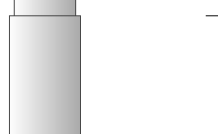
Secondary Witness:

Secondary Witness:

DatabaseC:\ProgramData\Warrior\Data\concorde_reta_2_27.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
1	7.875	123	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-360	75	Off	4657

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00	
CNLSC	37.48			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD	28.43		CDL-M&W (168-986)	8.50	4.00	250.00	
DCAL	28.42						
SSD	27.93						
MCAL	19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00	
MI	19.83						
MN	19.83						
RLL3	15.80						
RLL3F	15.79						
CILD	8.00		DIL-M&W (1987)	18.50	3.50	220.00	

CILM

4.70

SP

0.20

Dataset: concorde_reta_2_27.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

PIONEER

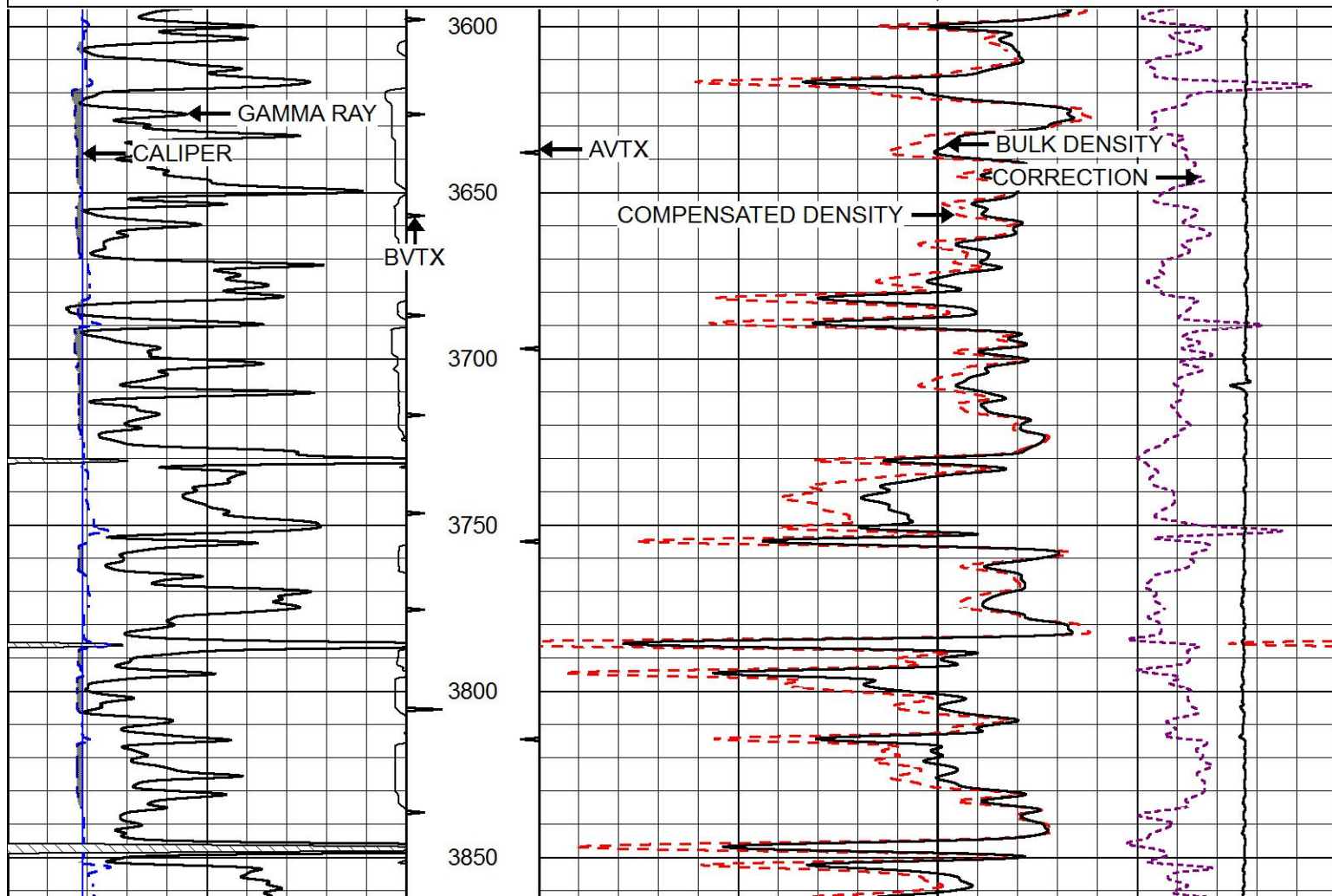
Pioneer Energy Services

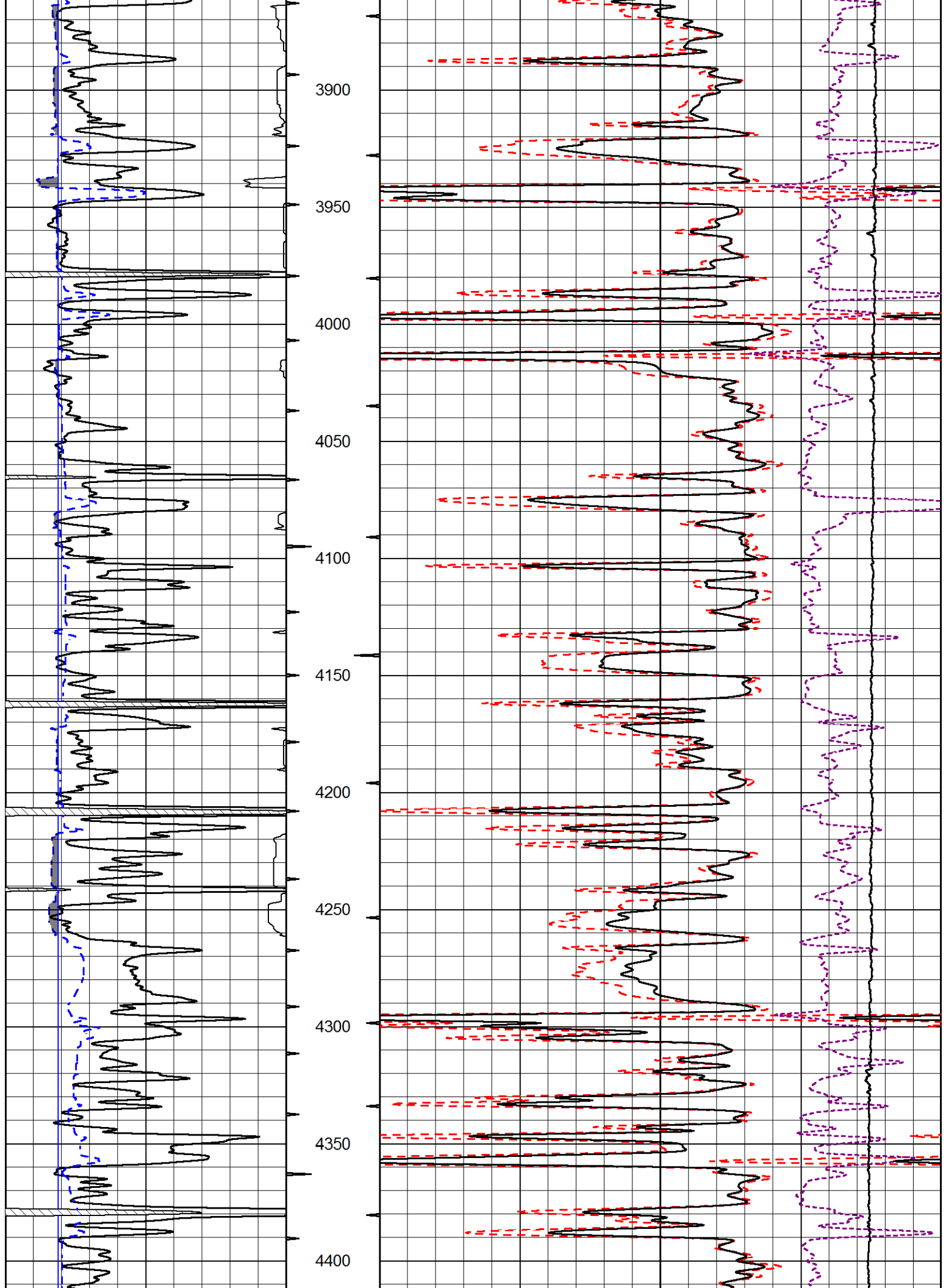
MAIN PASS

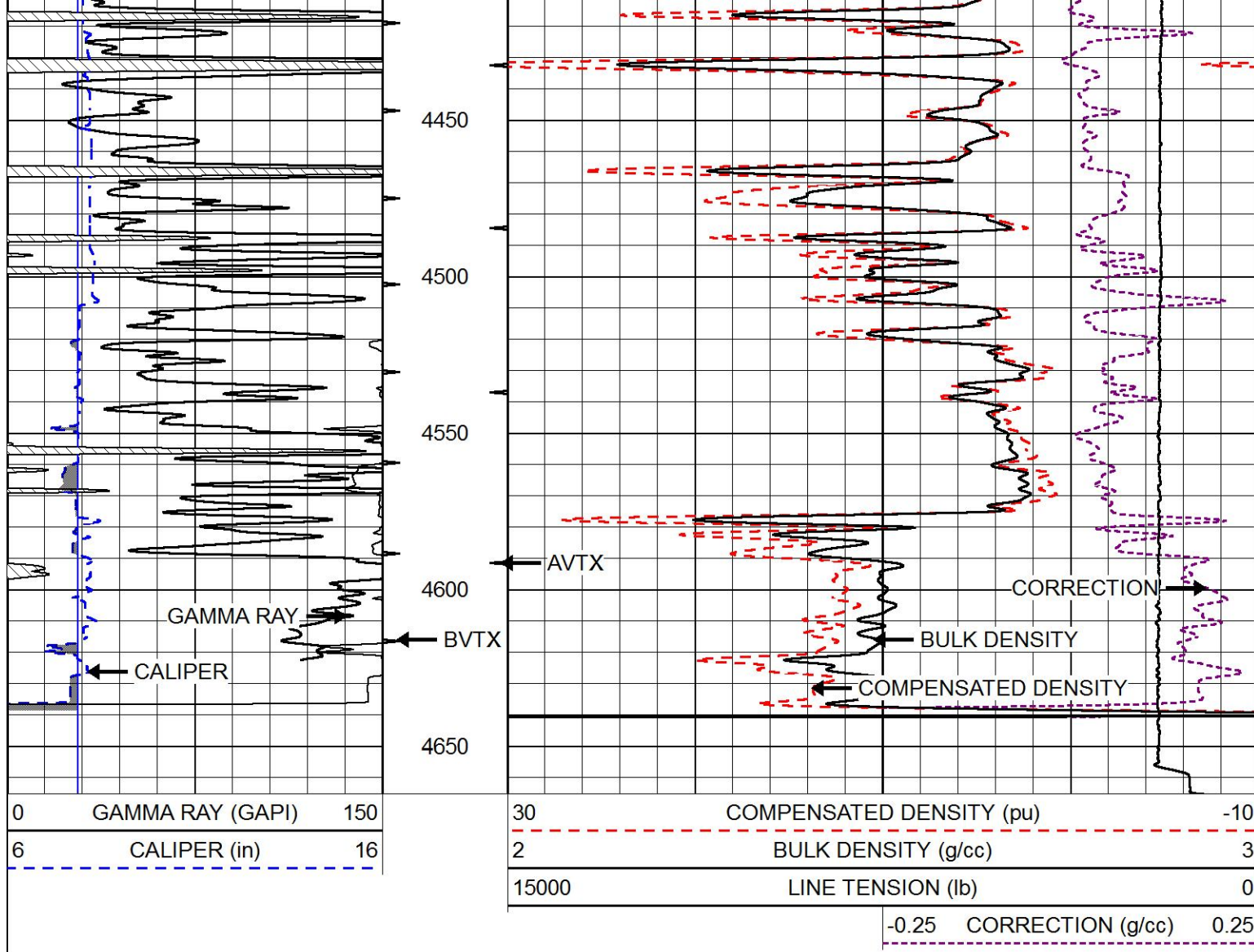
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Dataset Pathname stackml/pass3.1
Presentation Format cdl
Dataset Creation Wed Aug 02 23:17:08 2017
Charted by Depth in Feet scaled 1:600

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

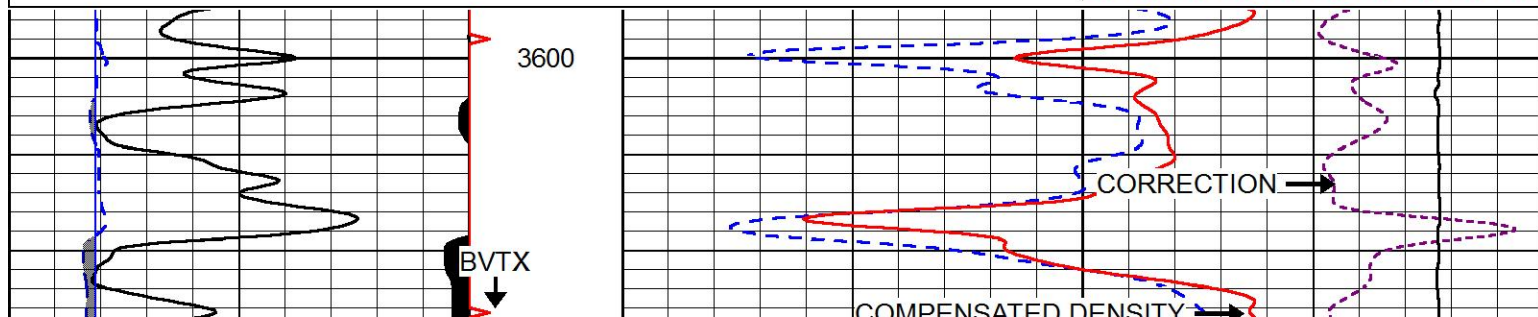
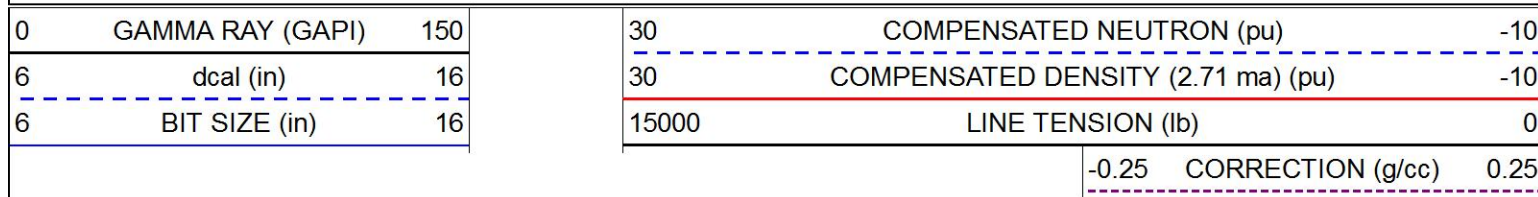


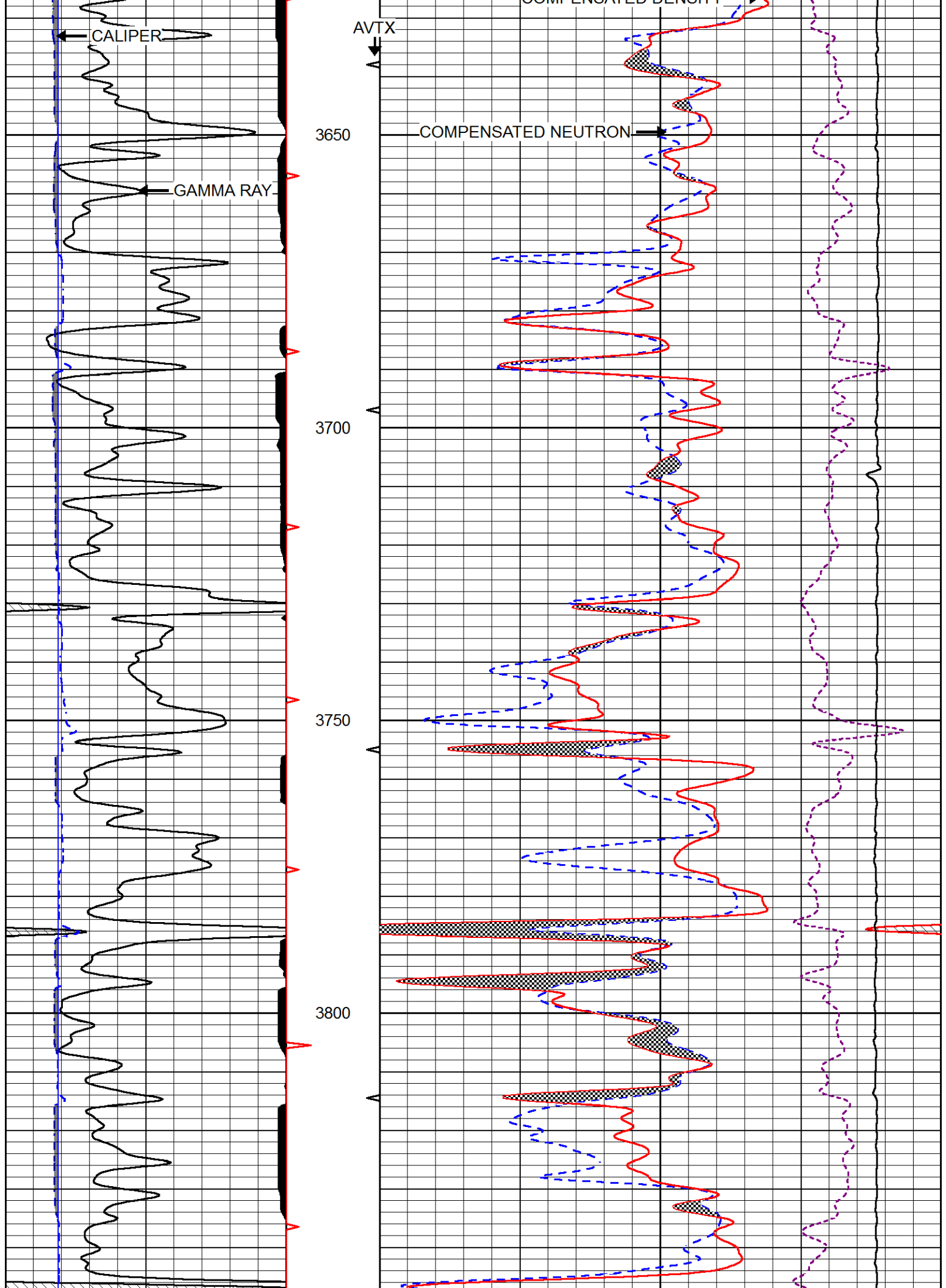


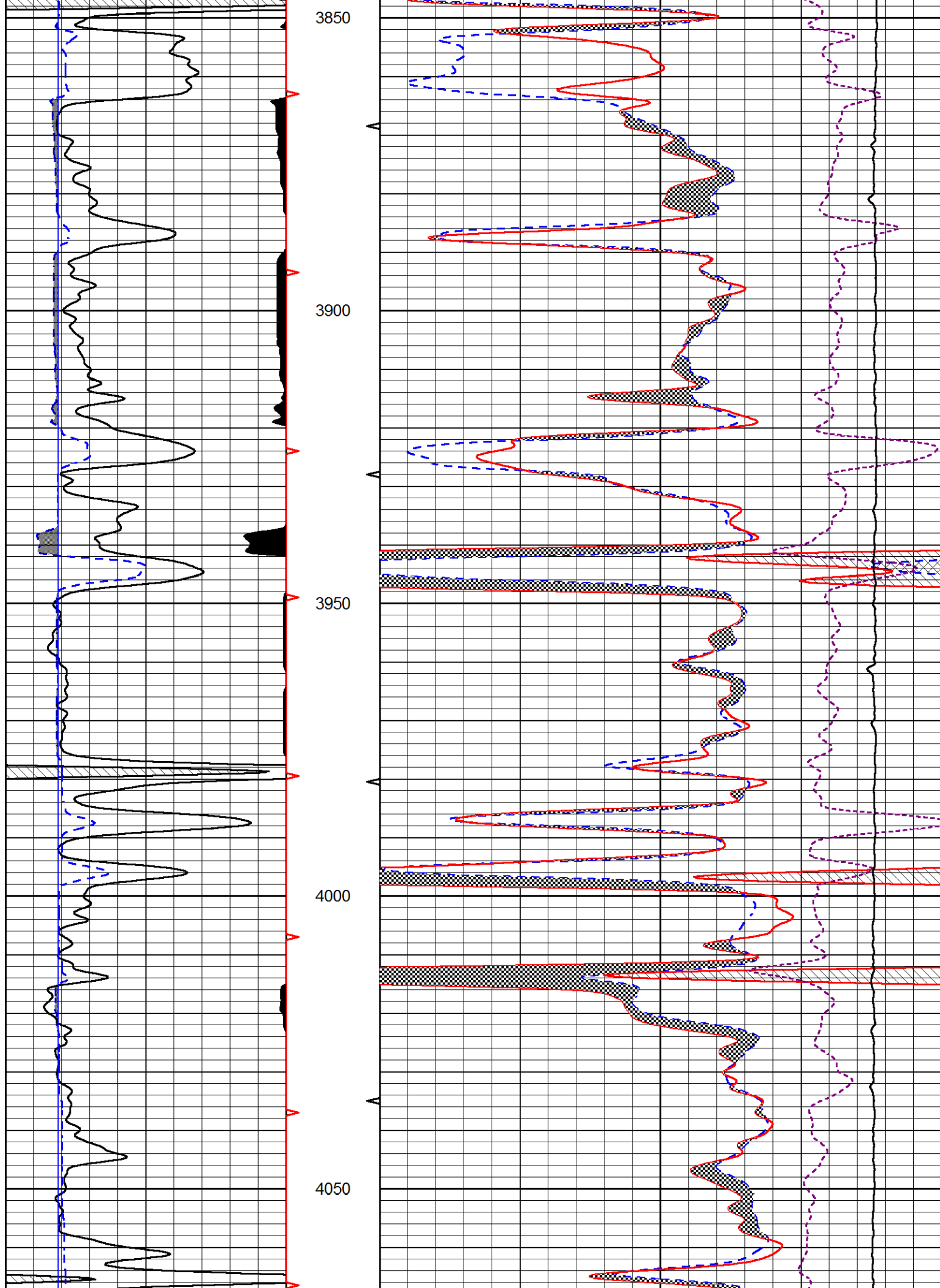


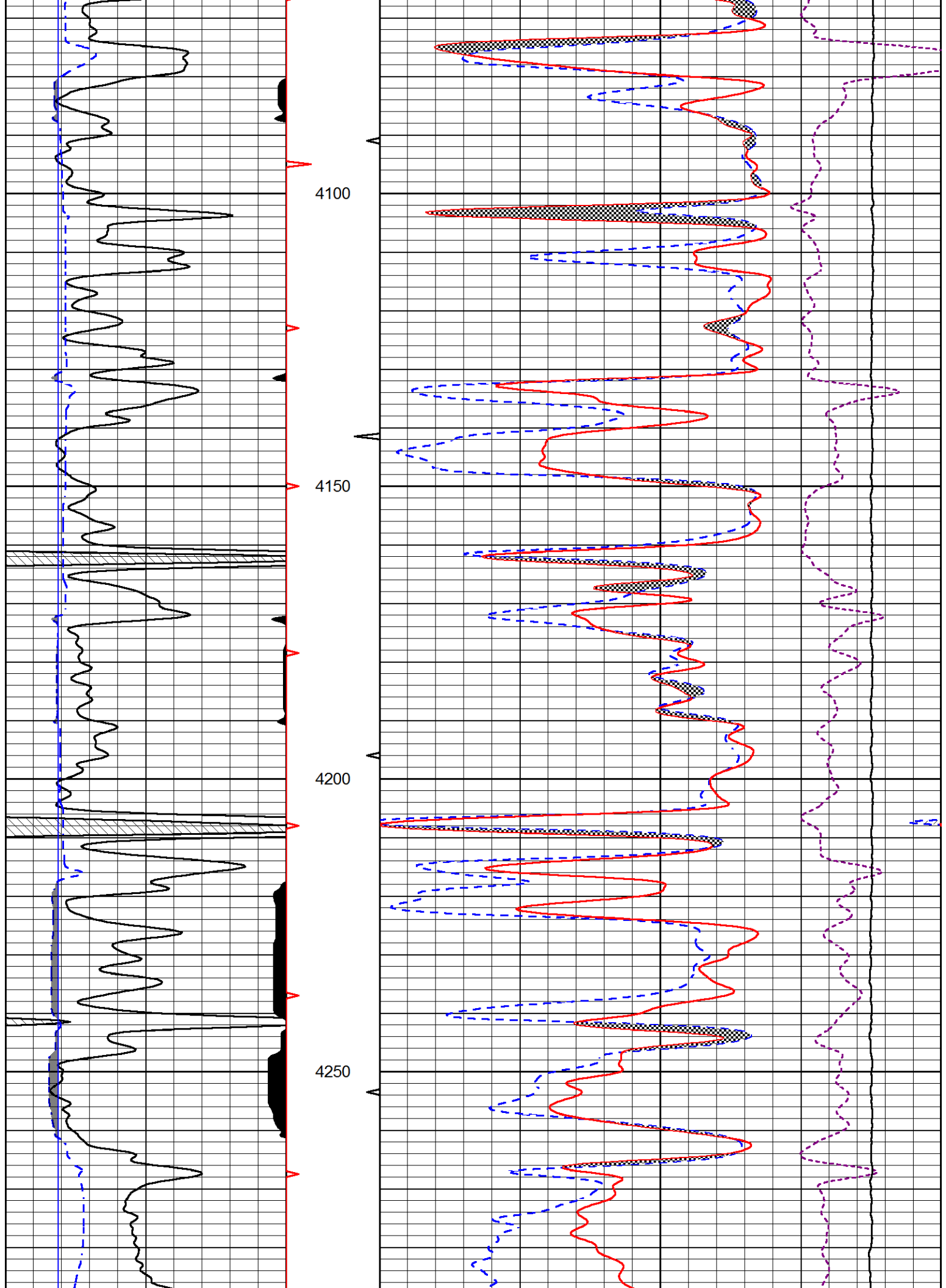
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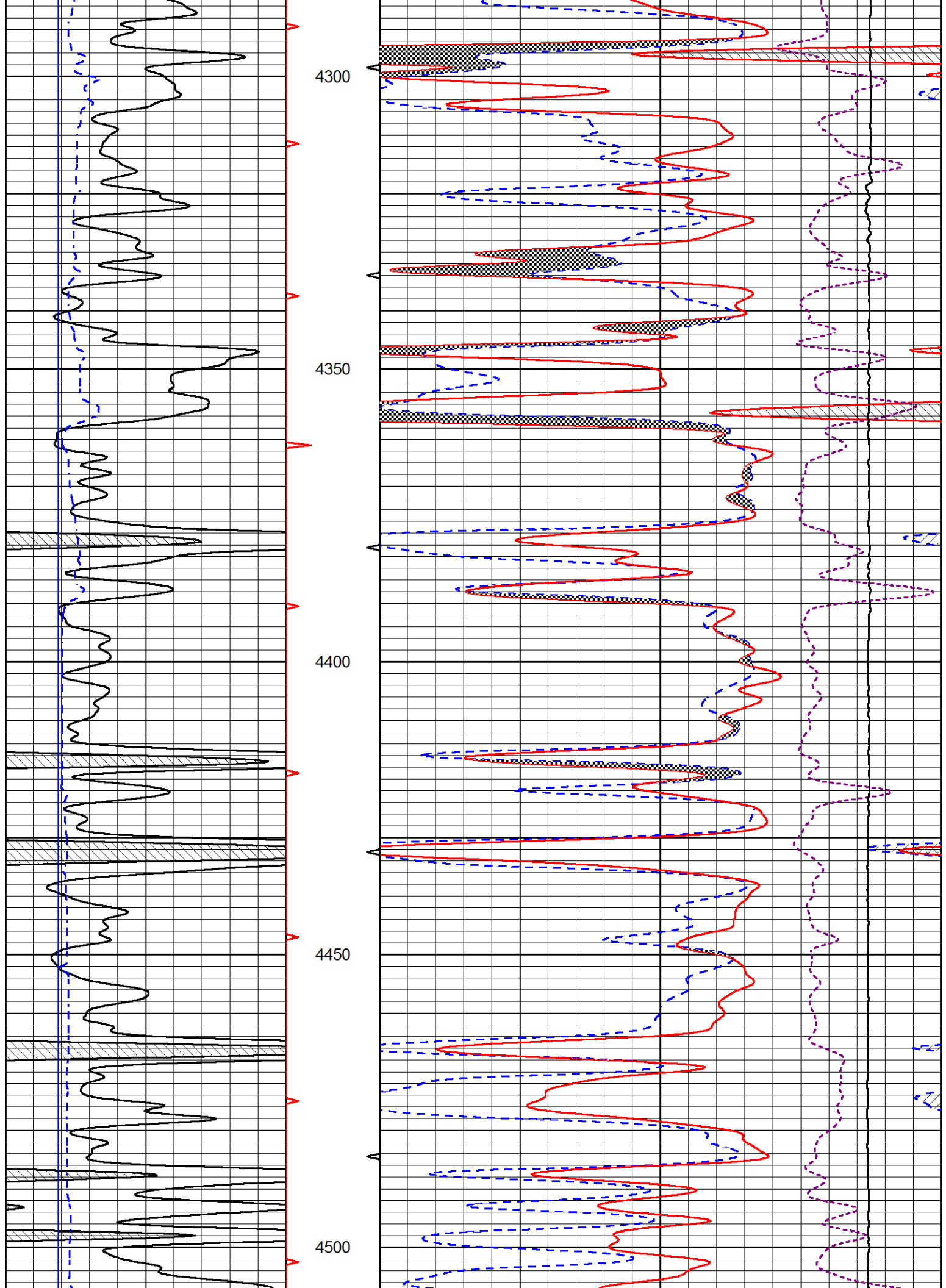
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 Presentation Format: cndlspec
 Dataset Creation: Wed Aug 02 23:17:08 2017
 Charted by: Depth in Feet scaled 1:240

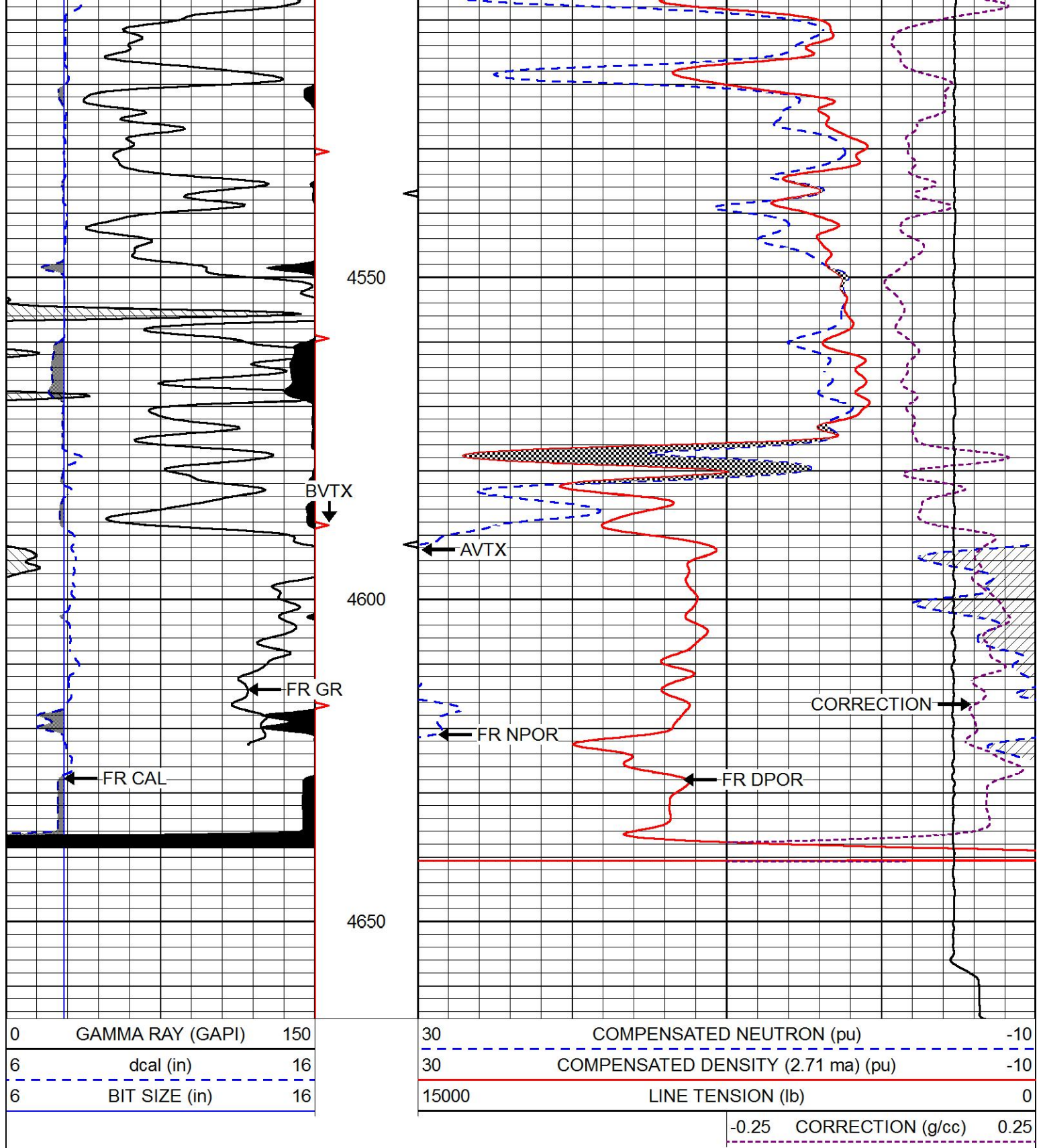










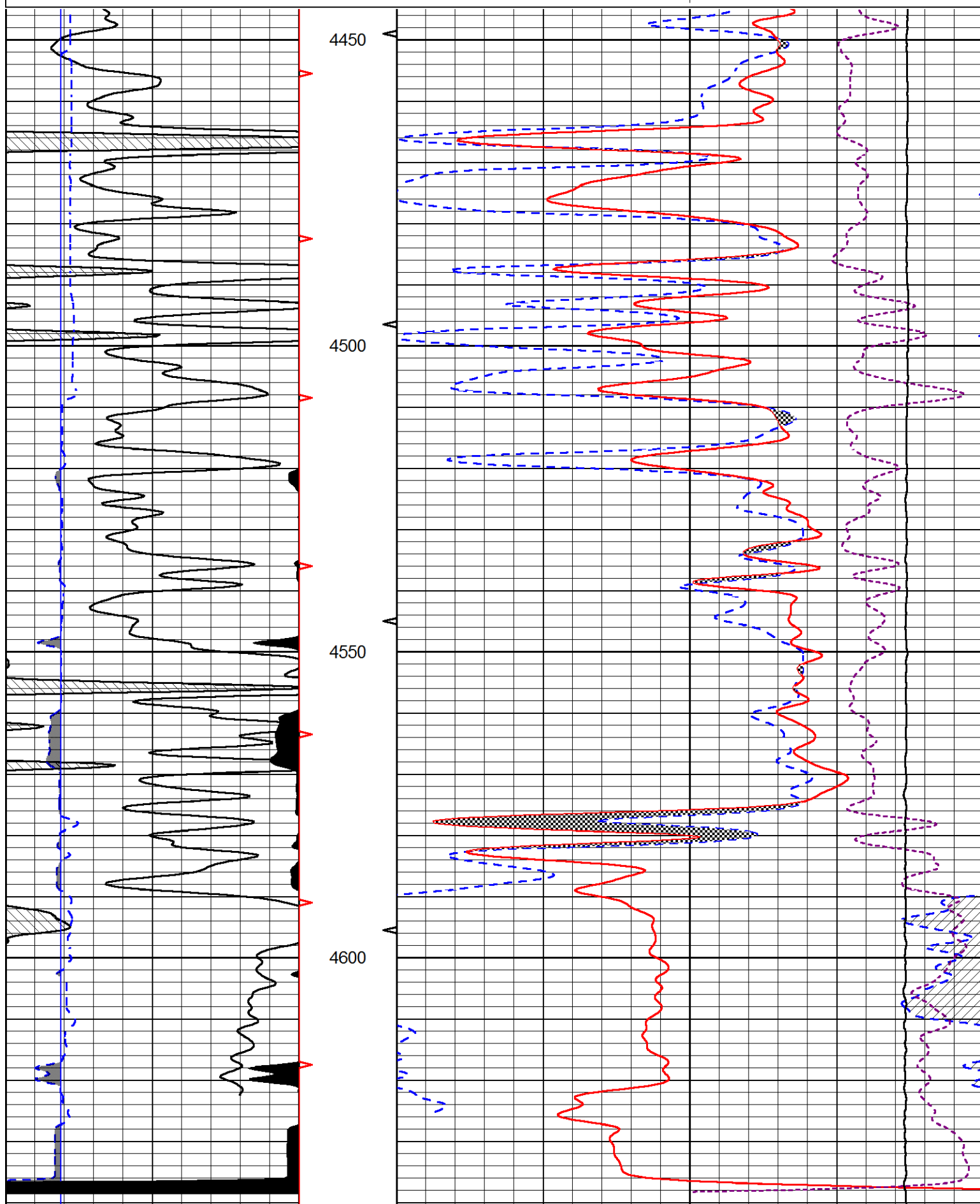


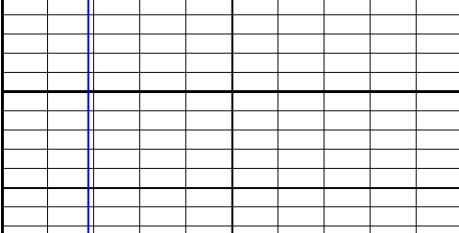
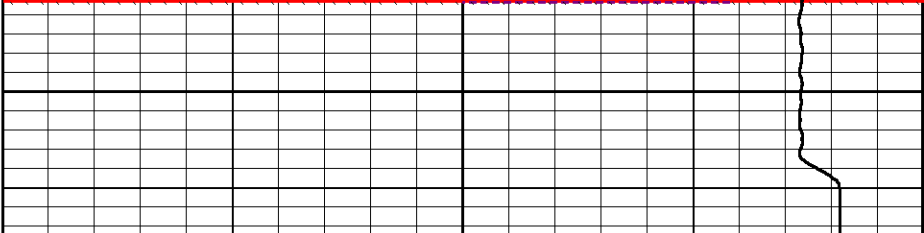
REPEAT SECTION

Database File concorde_reta_2_27.db
 Dataset Pathname stackml/pass2.1
 Presentation Format cndlspec
 Dataset Creation Wed Aug 02 23:10:25 2017
 Charted by Depth in Foot scaled 1:240

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

30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25



			4650											
0	GAMMA RAY (GAPI)		150	30	COMPENSATED NEUTRON (pu)								-10	
6	dcal (in)		16	30	COMPENSATED DENSITY (2.71 ma) (pu)								-10	
6	BIT SIZE (in)		16	15000	LINE TENSION (lb)								0	
						-0.25 CORRECTION (g/cc)								0.25

		Calibration Report
Database File	concorde_reta_2_27.db	
Dataset Pathname	stackml/pass3.1	
Dataset Creation	Wed Aug 02 23:17:08 2017	

		Dual Induction Calibration Report	
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Serial-Model:		1987-M&W	
Calibration Performed:		Tue Apr 11 16:07:38 2017	

		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	Gain	Offset
Deep	178.615	710.235		0.000	255.800 mmho/m	0.530	-36.500
Medium	161.982	1441.110		0.000	255.800 mmho/m	0.440	-110.500

		Microlog Calibration Report	
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Serial-Model:		PSI-02-PSI STKBL ML	
Performed:		Fri Jun 23 00:25:19 2017	

		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0031	0.0043		0.0000	10.0000 Ohm-m	29000.0000	0.0000
Inverse	0.0000	0.0013		0.0000	10.0000 Ohm-m	34000.0000	0.0000
Caliper	1.0020	1.0834		5.5000	16.5000 in	135.1560	-131.5000

		Compensated Density Calibration Report	
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Serial-Model:		168-986-M&W	
Source / Verifier:		/	
Master Calibration Performed:		Tue Apr 11 16:07:47 2017	

Master Calibration					
		Density		Far Detector	Near Detector
Magnesium	1.755 g/cc			4691.86	4818.19 cps
Aluminum	2.675 g/cc			859.57	3020.22 cps
Spine Angle = 74.61		Density/Spine Ratio = 0.523			
Size		Reading			

Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.23

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 Apr 11 16:08:01 2017
Calibrator Value:	1000.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	6.2 cps
Sensitivity:	0.5200 GAPI/cps



Company	CONCORDE RESOURCES CORP.
Well	RETA NO. 2-27
Field	WILDCAT
County	LOGAN
State	KANSAS