



MIDWEST WIRELINE

# DUAL COMP POROSITY LOG

Company Griffin Management, LLC  
Well Monroe #2  
Field  
County Pratt  
State Kansas

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Well Monroe #2  
Field  
County Pratt State Kansas

Location: API #: 15-151-22546-00-00  
990 FSL & 330 FEL  
SEC 32 TWP 29S RGE 15W  
Permanent Datum Ground Level Elevation 2008  
Log Measured From Kelly Bushing  
Drilling Measured From Kelly Bushing  
Other Services  
DIL/MEL  
K.B. 2013  
D.F.  
G.L. 2008

Date 6/28/2022

Run Number One  
Type Log CNL/CDL  
Depth Driller 4865  
Depth Logger 4863  
Bottom Logged Interval 4834  
Top Logged Interval 2800  
Type Fluid In Hole Chemical  
Salinity, PPM CL 7500  
Density 9.3  
Level Full  
Max. Rec. Temp. F 125  
Operating Rig Time 3 Hours  
Equipment -- Location 24 Hays  
Recorded By D. Schmidt  
Witnessed By Charles Griffin Eli Felts

Borehole Record

Casing Record

| Run No. | Bit   | From | To  | Size  | Wgt. | From | To  |
|---------|-------|------|-----|-------|------|------|-----|
| One     | 12.25 | 0    | 263 | 8.625 | 23   | 0    | 263 |
| Two     | 7.875 | 263  | 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.

Croft,  
South to 110, 1 East, 1 South,  
East into

Log Measured From: Kelly Bushing 5 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: Charles Griffin  
Secondary Witness: Eli Felts  
Secondary Witness:  
Secondary Witness:

| Sensor                                                                                                                        | Offset (ft)             | Schematic                                                                         |  | Description      | Length (ft) | O.D. (in) | Weight (lb) |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------|--|------------------|-------------|-----------|-------------|
| GR                                                                                                                            | 40.33                   |  |  | GR-M&W (101)     | 3.00        | 3.50      | 50.00       |
| CNLSC<br>CNSSC                                                                                                                | 37.23<br>36.48          |                                                                                   |  | CNT-M&W (207-MW) | 5.00        | 3.50      | 100.00      |
| LSD<br>DCAL<br>SSD                                                                                                            | 28.18                   |                                                                                   |  | CDL-M&W (302-02) | 8.50        | 4.00      | 250.00      |
|                                                                                                                               | 28.17                   |                                                                                   |  | ML-PSIML (401)   | 7.58        | 4.00      | 65.00       |
|                                                                                                                               | 27.68                   |                                                                                   |  |                  |             |           |             |
| MCAL<br>MI<br>MN                                                                                                              | 19.58<br>19.58<br>19.58 |                                                                                   |  |                  |             |           |             |
| RLL3F<br>RLL3                                                                                                                 | 15.50<br>15.50          |                                                                                   |  | DIL-M&W (502 HT) | 18.25       | 3.50      | 220.00      |
| CILD                                                                                                                          | 8.33                    |                                                                                   |  |                  |             |           |             |
| CILM                                                                                                                          | 4.50                    |                                                                                   |  |                  |             |           |             |
| SP                                                                                                                            | 0.20                    |                                                                                   |  |                  |             |           |             |
| Dataset: griffin_monroe 2.db: field/well/stkml/pass3.11<br>Total length: 42.33 ft<br>Total weight: 685.00 lb<br>O.D.: 4.00 in |                         |                                                                                   |  |                  |             |           |             |

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin\_monroe 2.db  
Dataset field/well/stkml/pass3.11/\_vars\_

## Top - Bottom

|           |        |         |         |          |          |       |          |
|-----------|--------|---------|---------|----------|----------|-------|----------|
| A         | BOREID | BOTTEMP | CASEOD  | CASETHCK | FLUIDDEN | M     | MATRXDEN |
| 1         | in     | degF    | in      | in       | g/cc     | 2     | g/cc     |
|           | 7.875  | 125     | 5.5     | 0        | 1        |       | 2.71     |
| NPORSEL   | PERFS  | SNDERR  | SNDERRM | SPSHIFT  | SRFTEMP  | SZCOR | TDEPTH   |
| Limestone | 0      | mmho/m  | mmho/m  | mV       | degF     | Off   | ft       |
|           |        | 0       | 0       | 20       | 60       |       | 4863     |

## 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



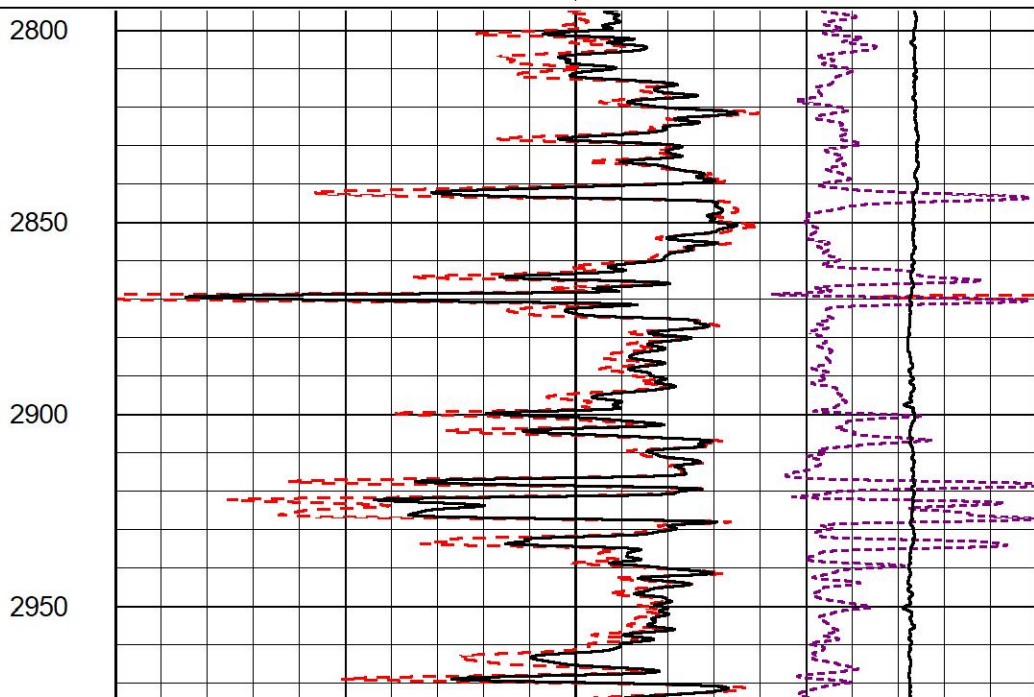
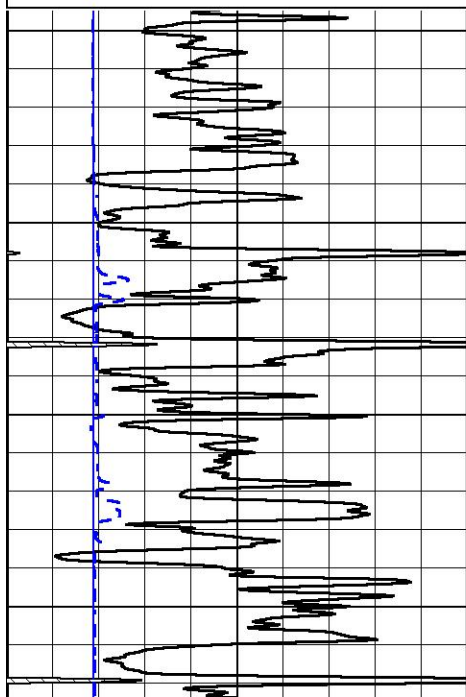
## 2" SCALE BULK DENSITY

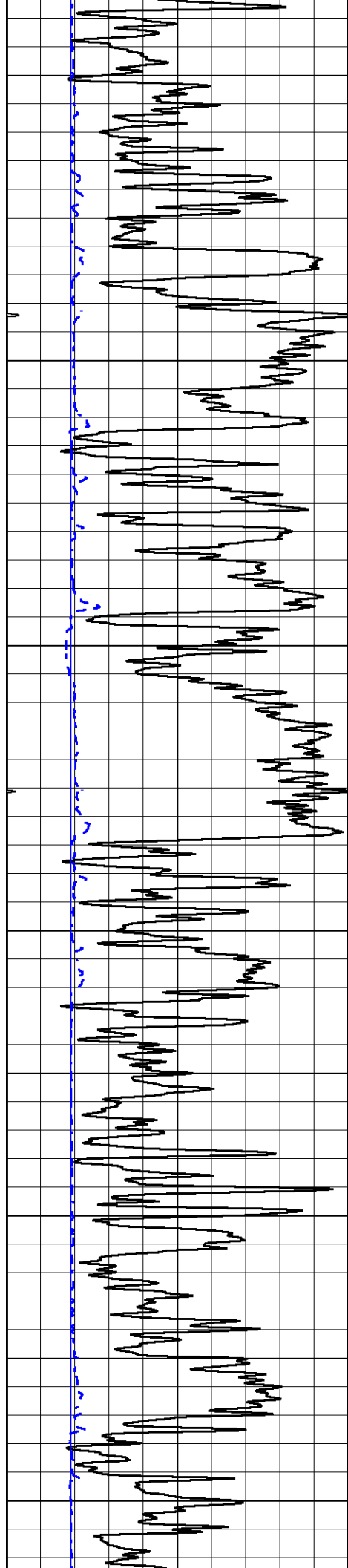
### MAIN PASS

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Dataset Pathname stkml/pass3.2  
Presentation Format \_cdl  
Dataset Creation Tue Jun 28 07:59:06 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

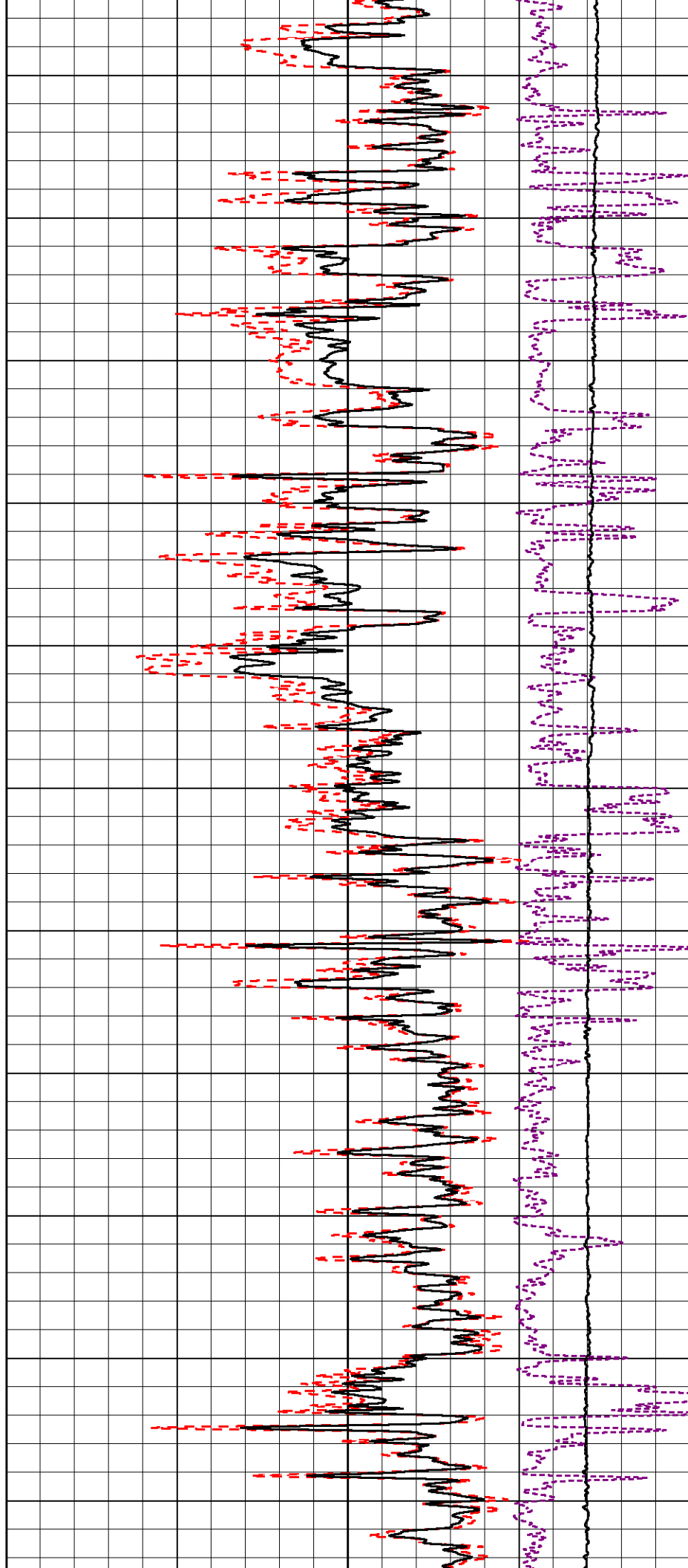
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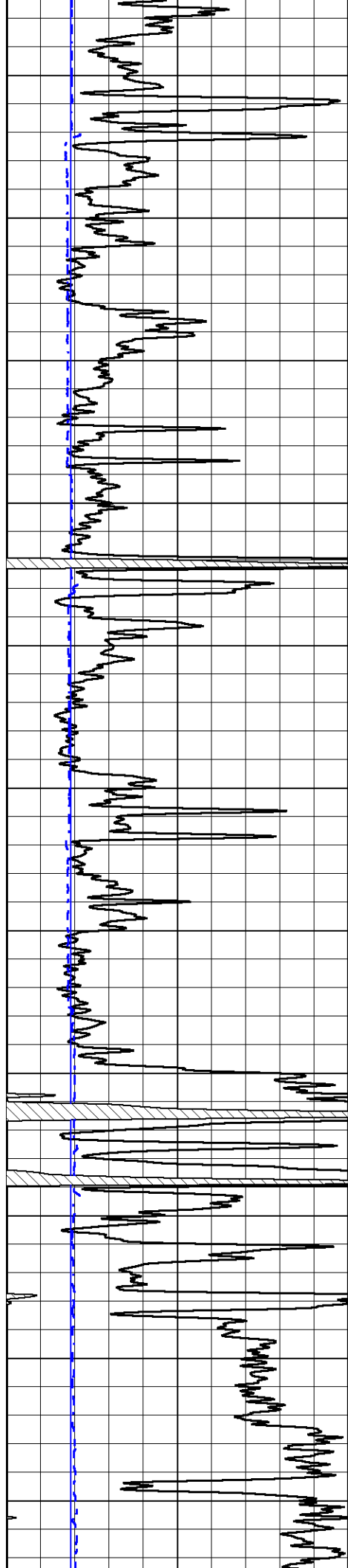
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3400

3450

3500





3550

3600

3650

3700

3750

3800

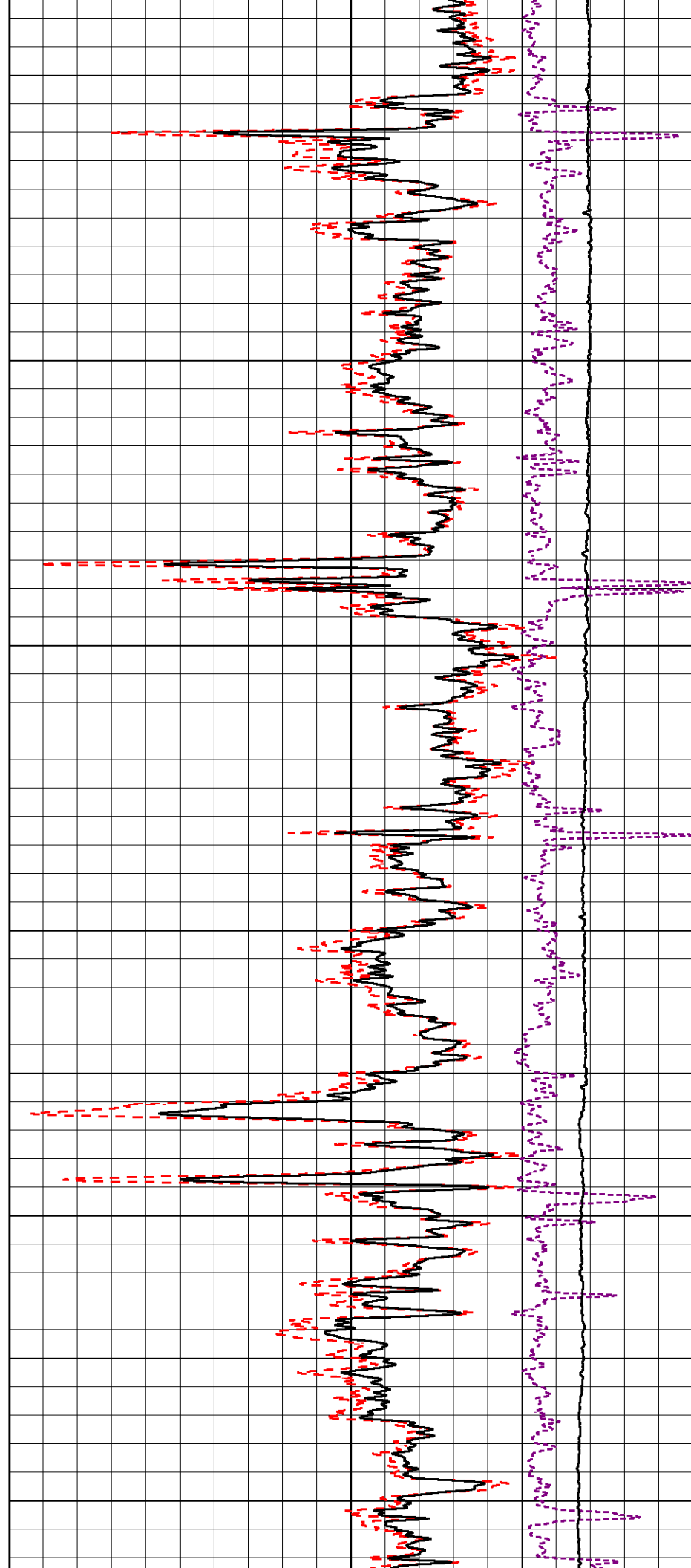
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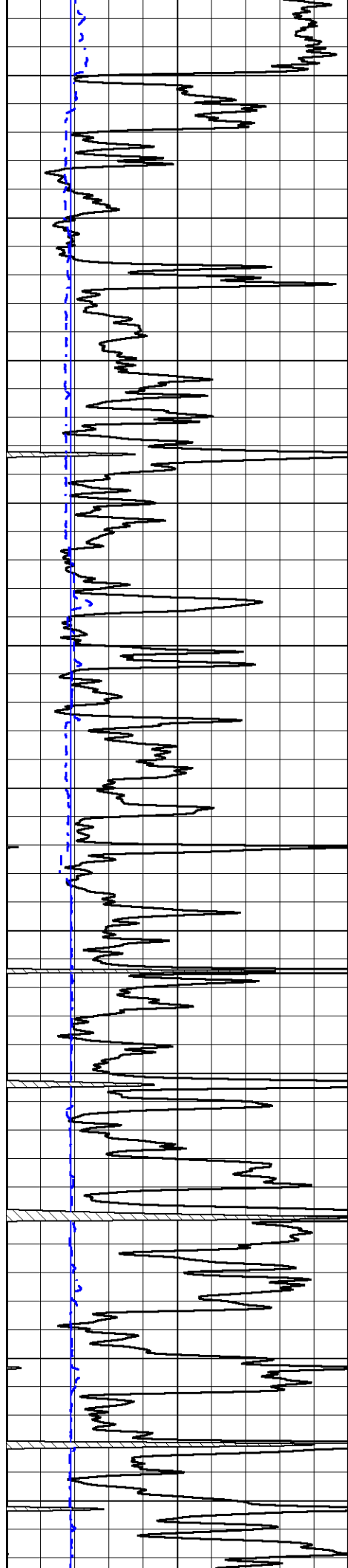
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3950

4000

4050





4100

4150

4200

4250

4300

4350

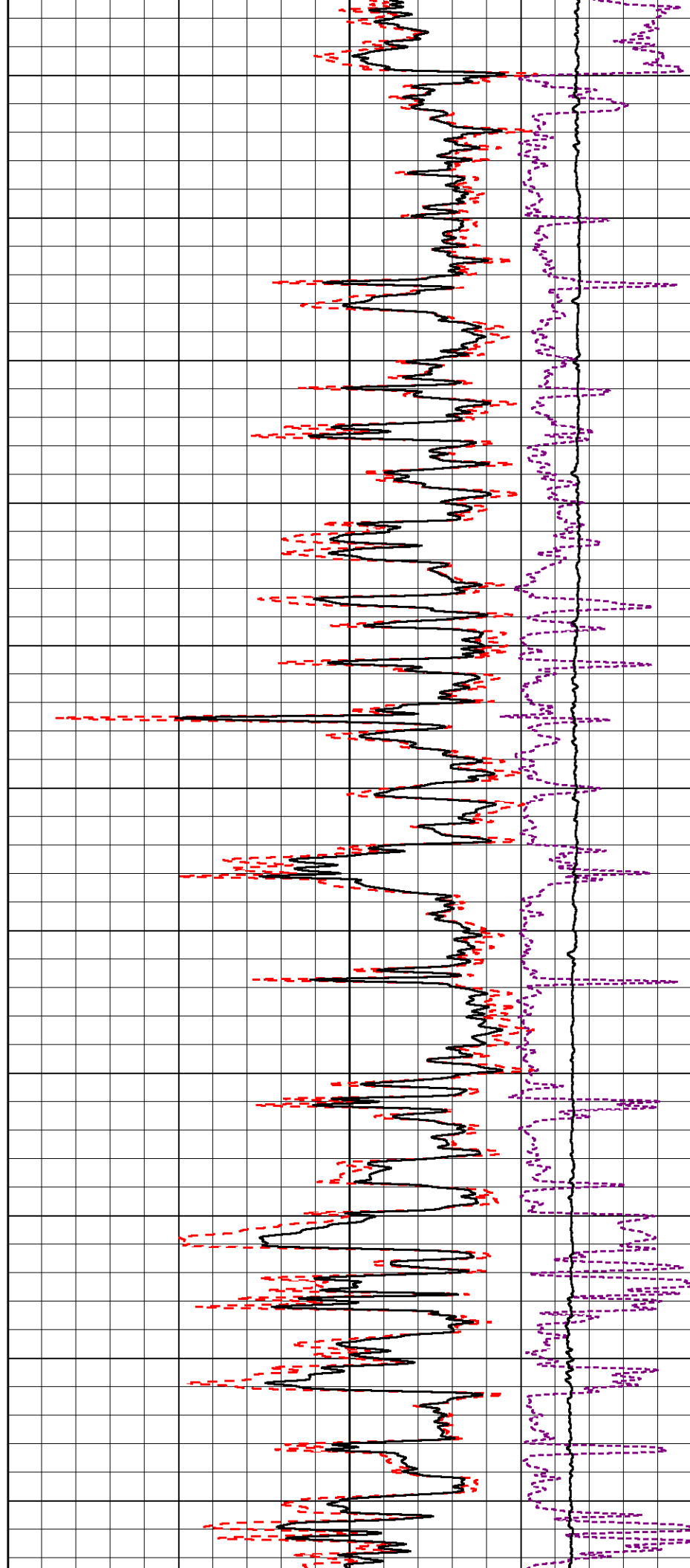
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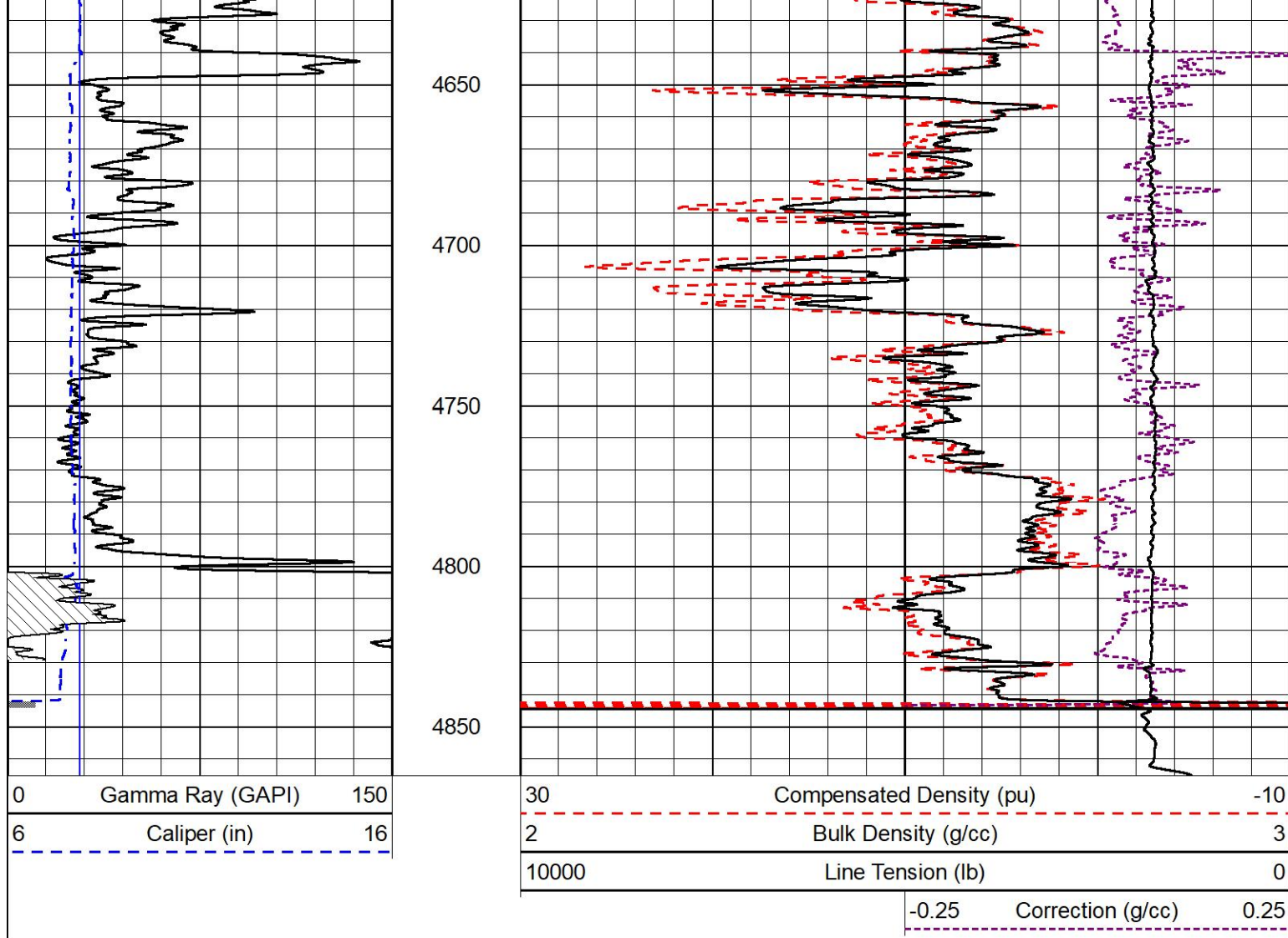
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4500

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4600

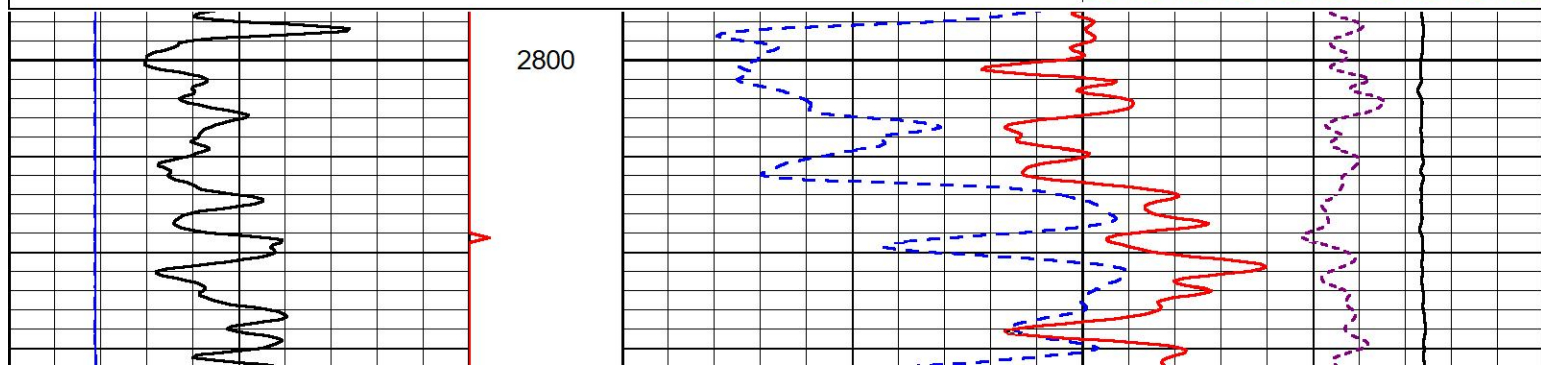
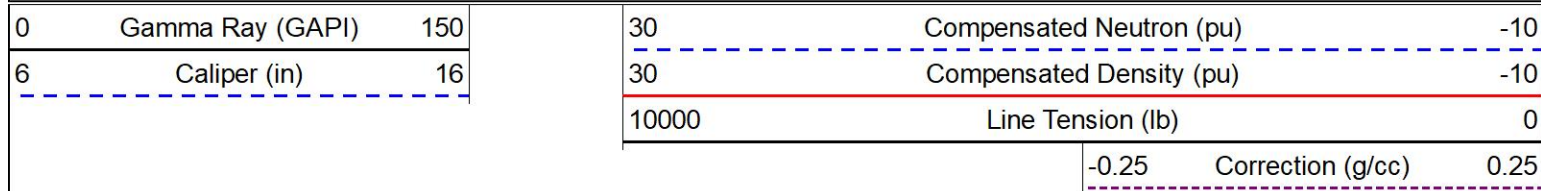


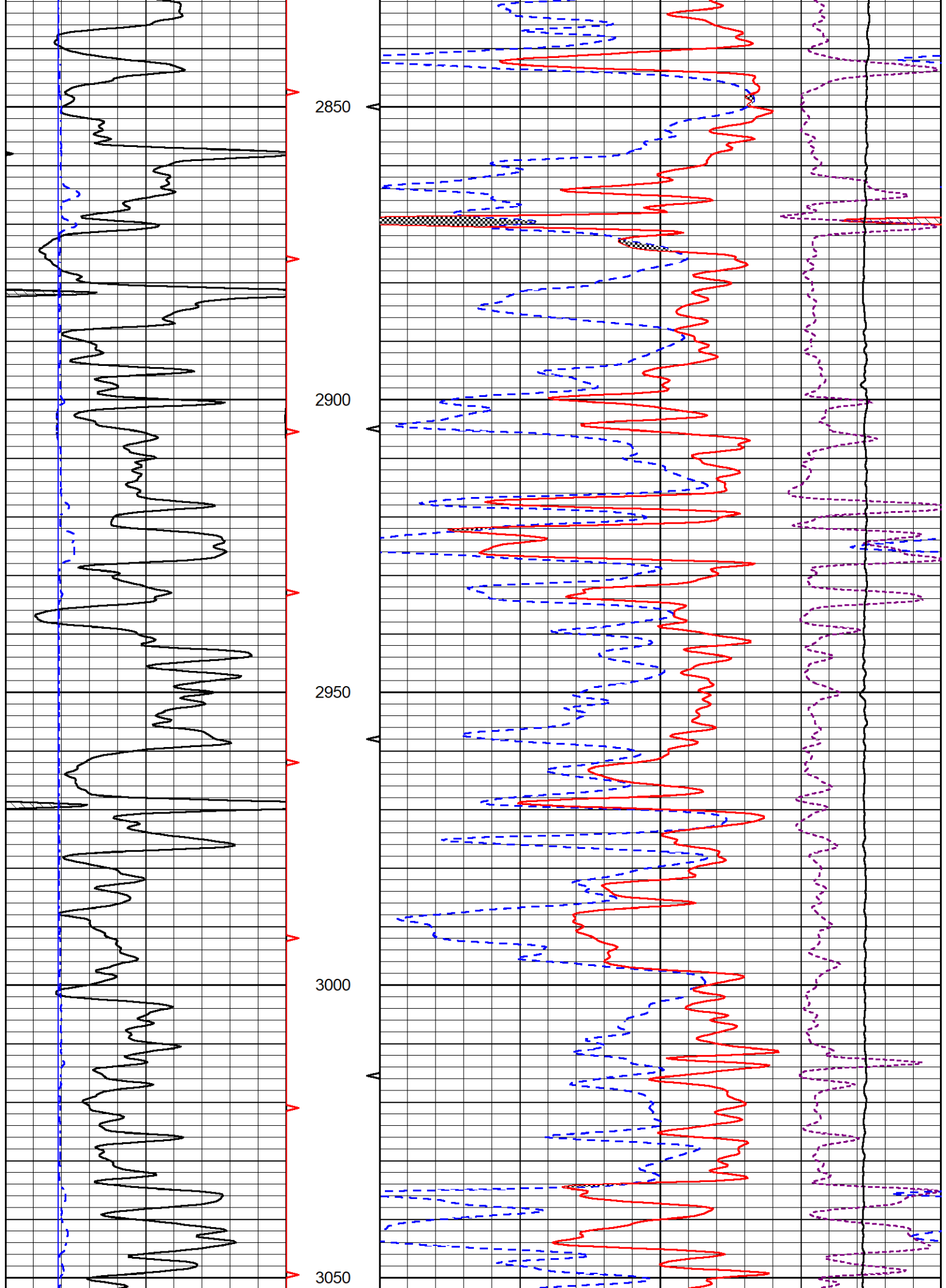


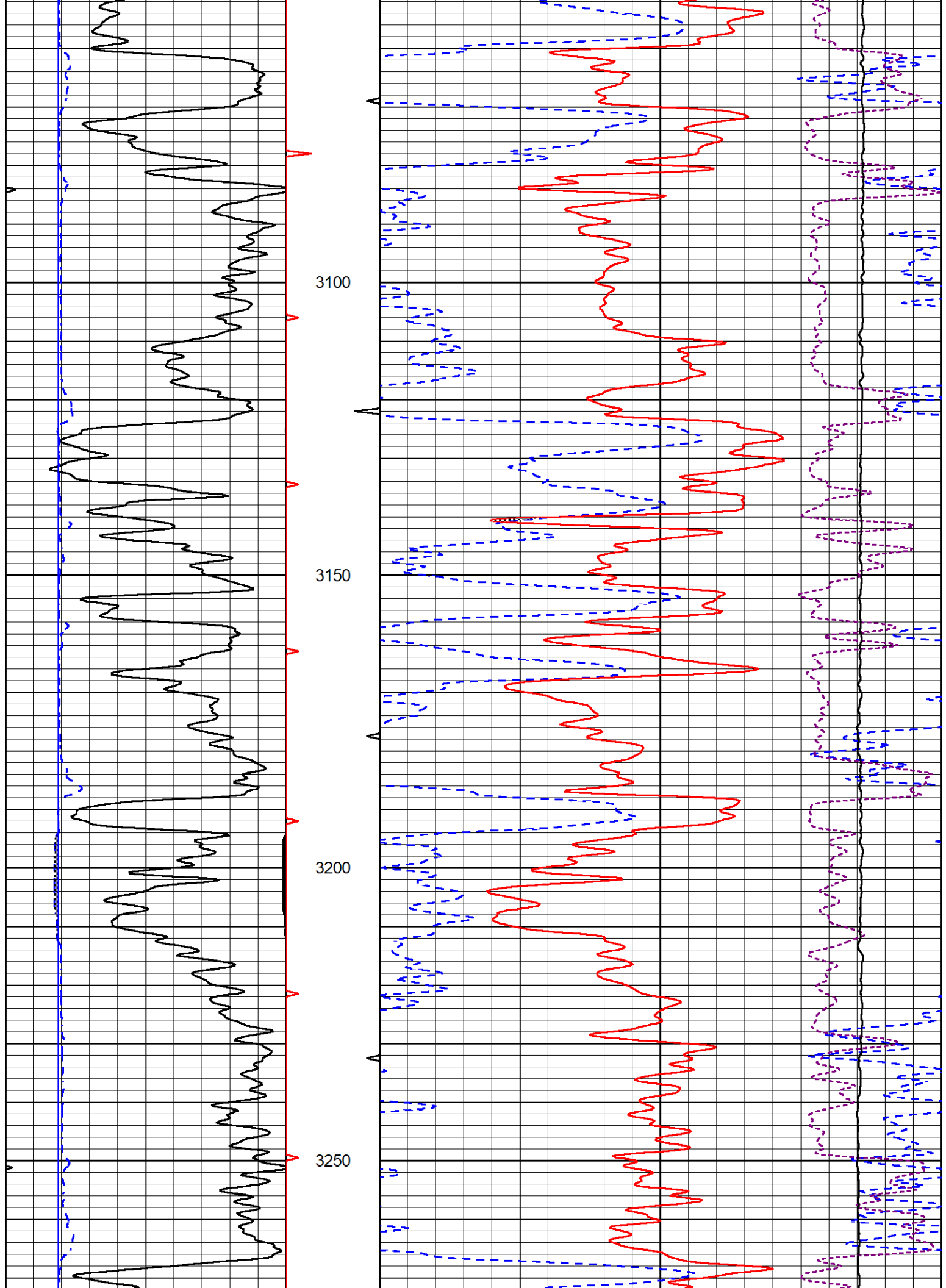
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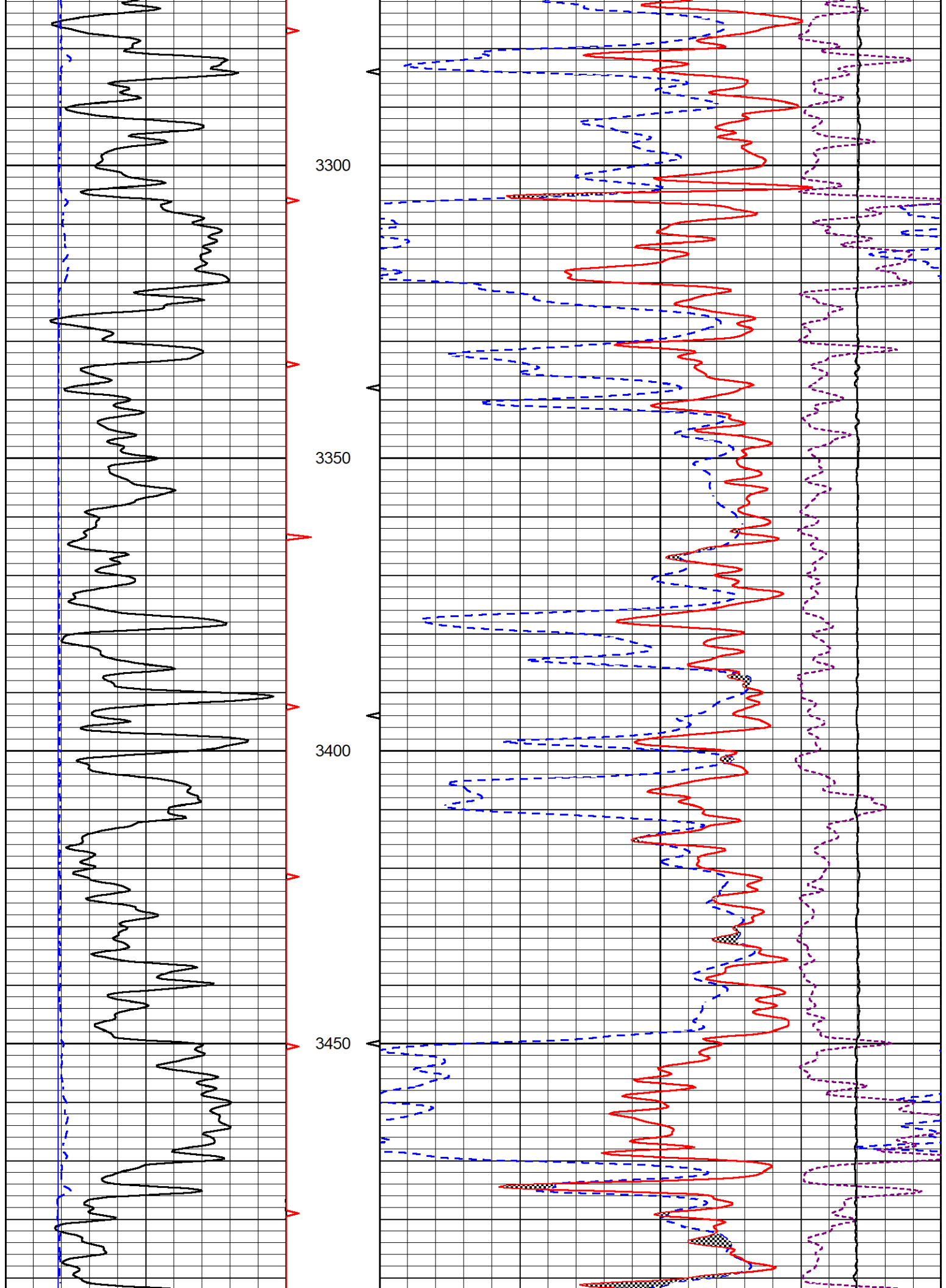
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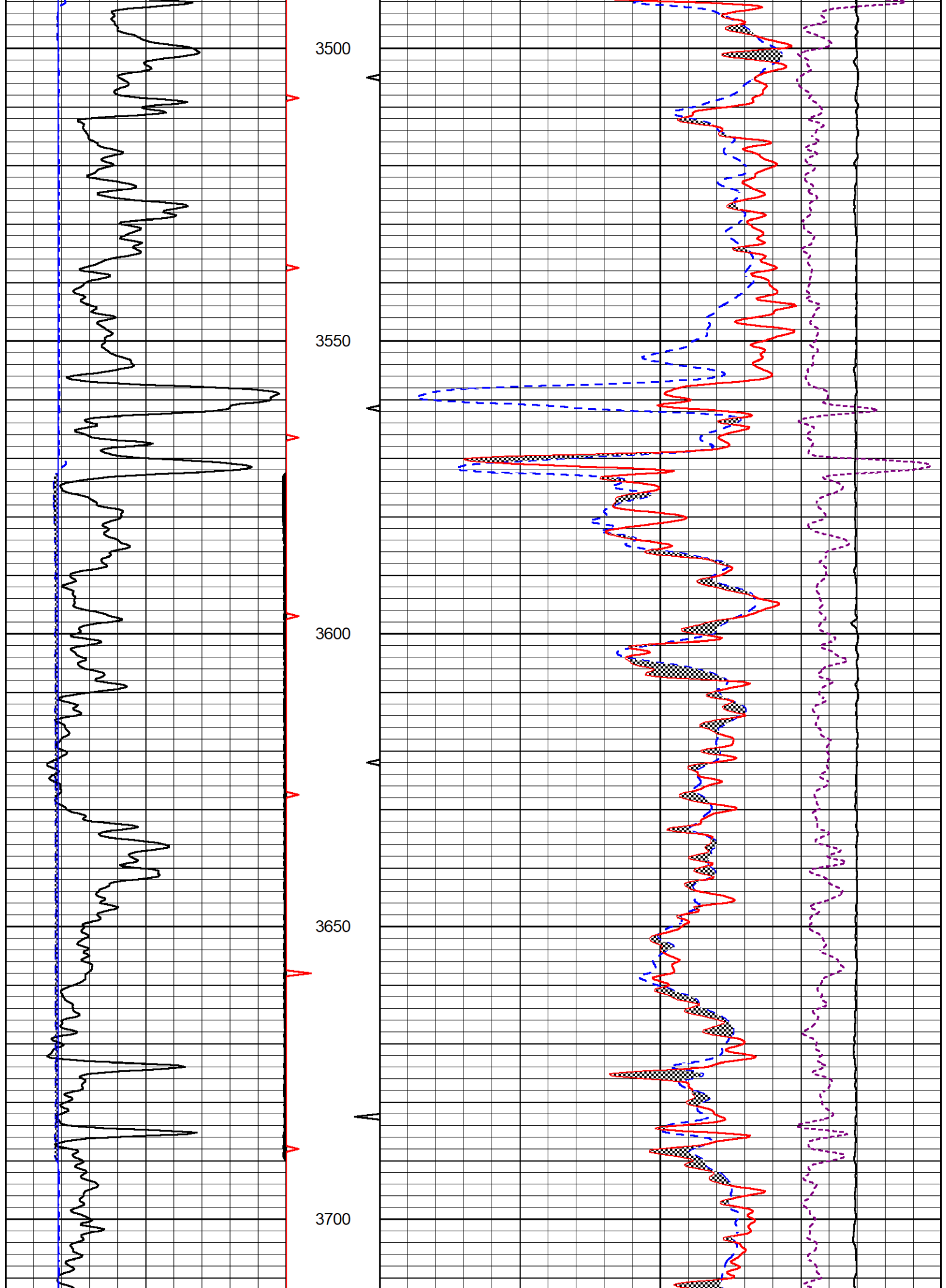
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Dataset Pathname stkml/pass3.1  
Presentation Format \_CNDLS~1  
Dataset Creation Tue Jun 28 07:55:10 2022  
Charted by Depth in Feet scaled 1:240

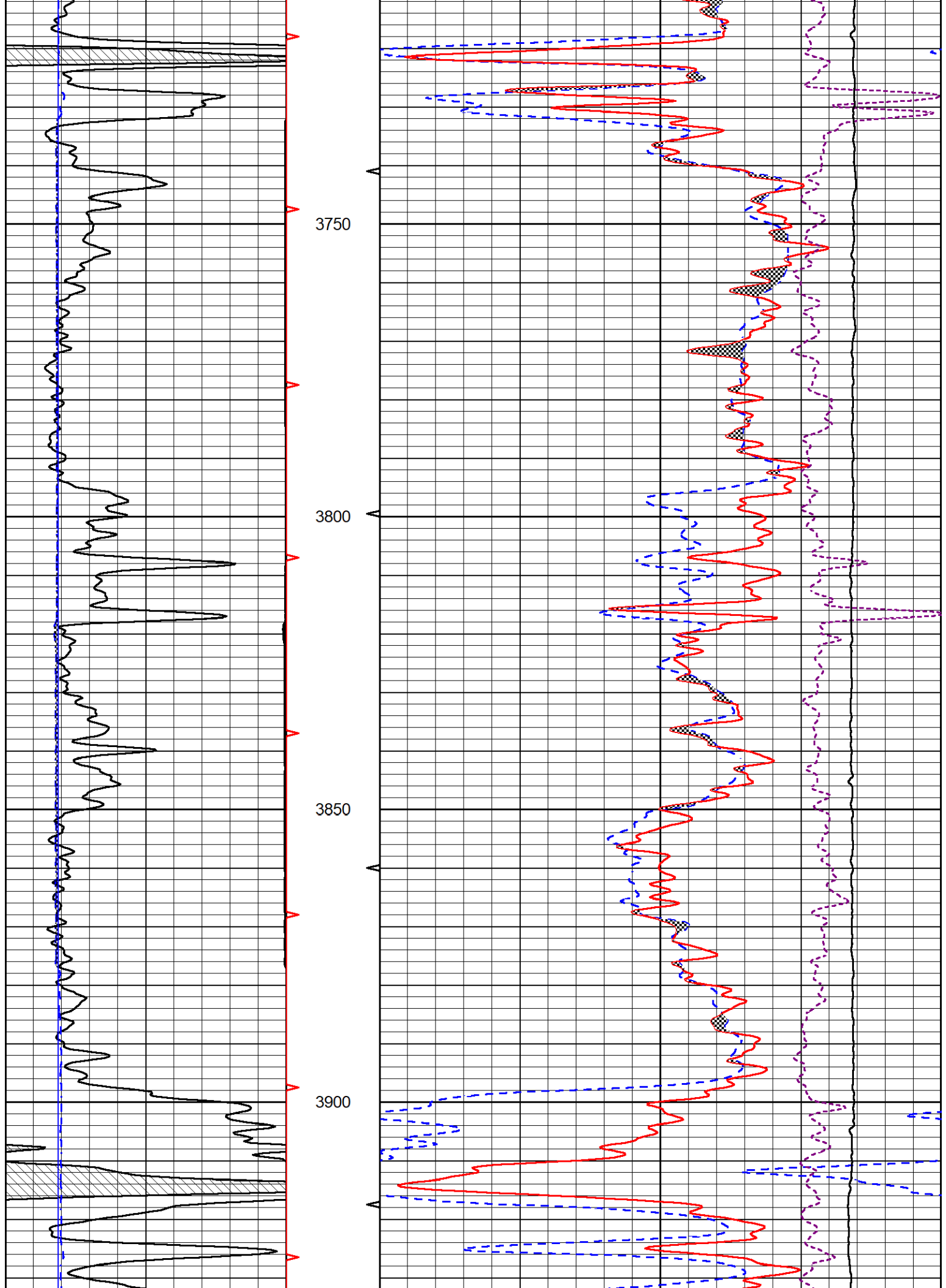


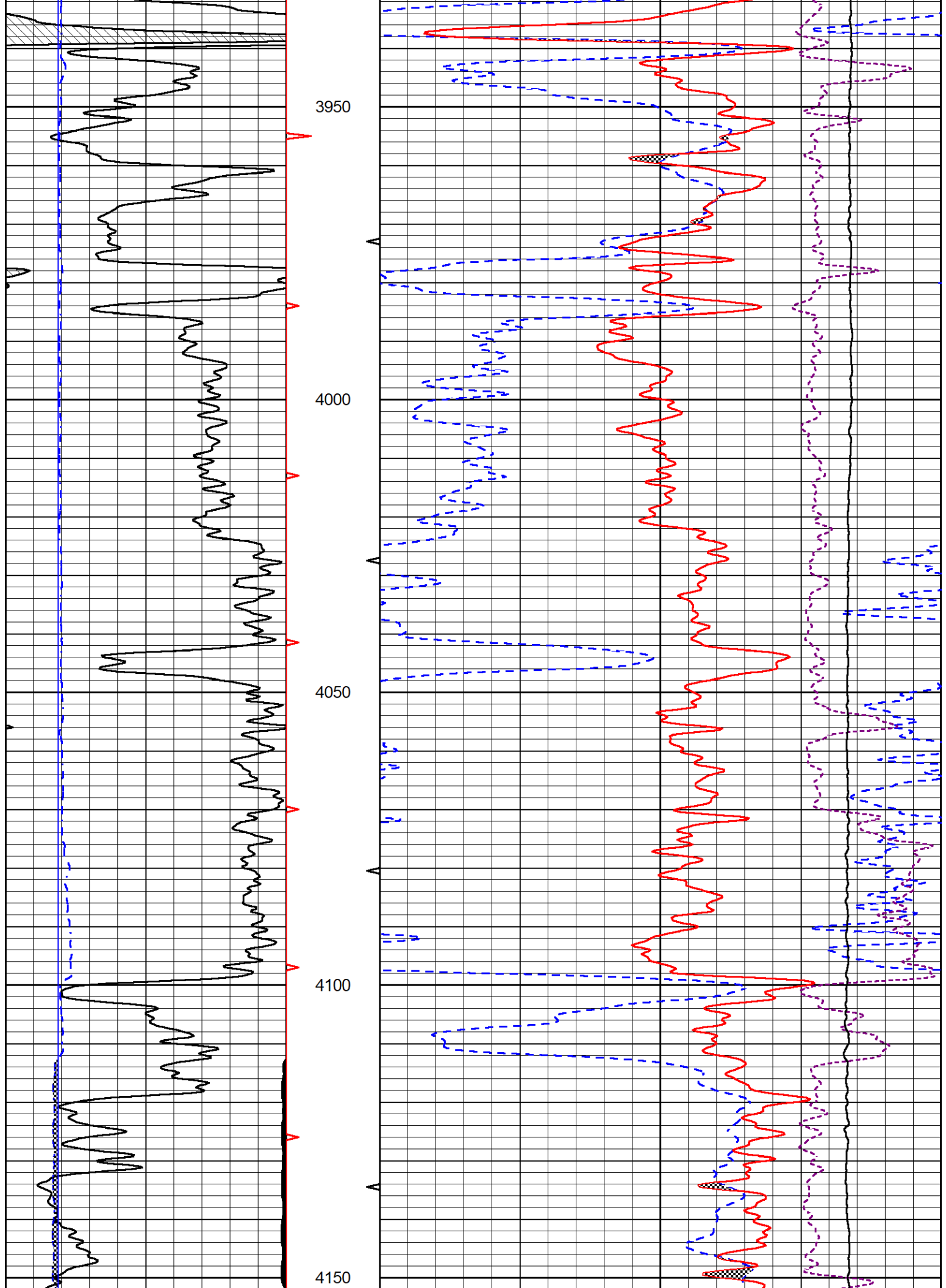


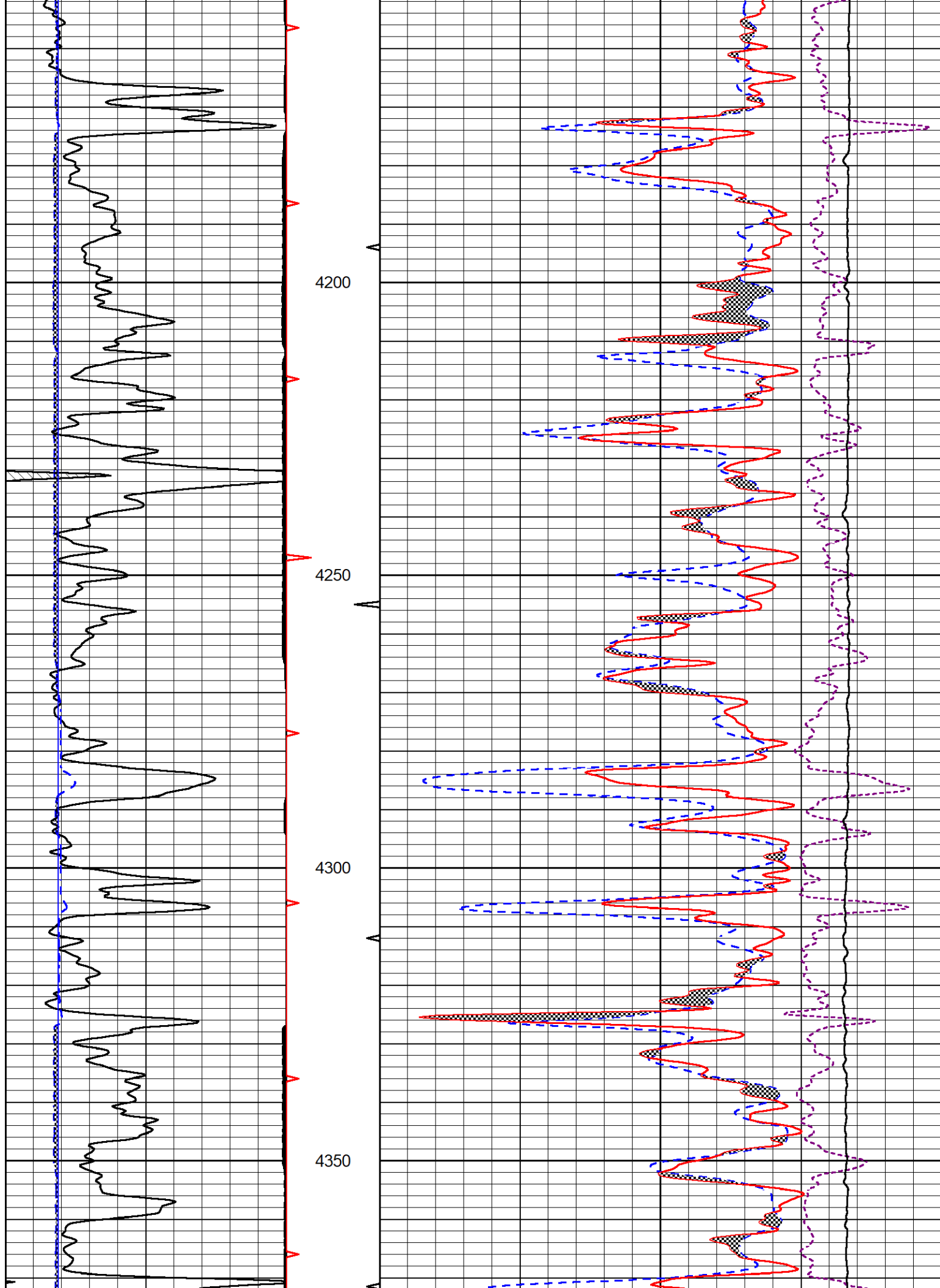


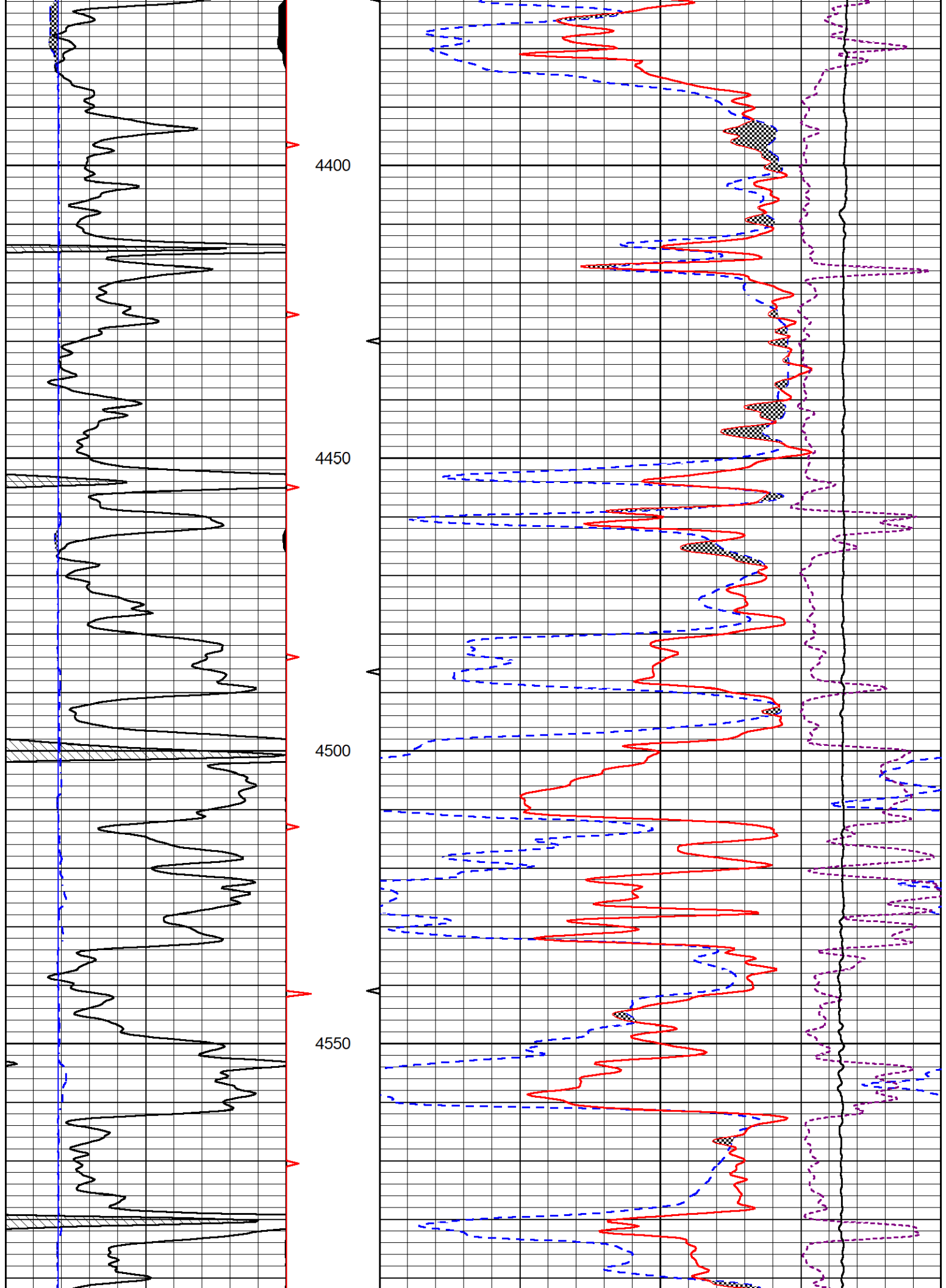


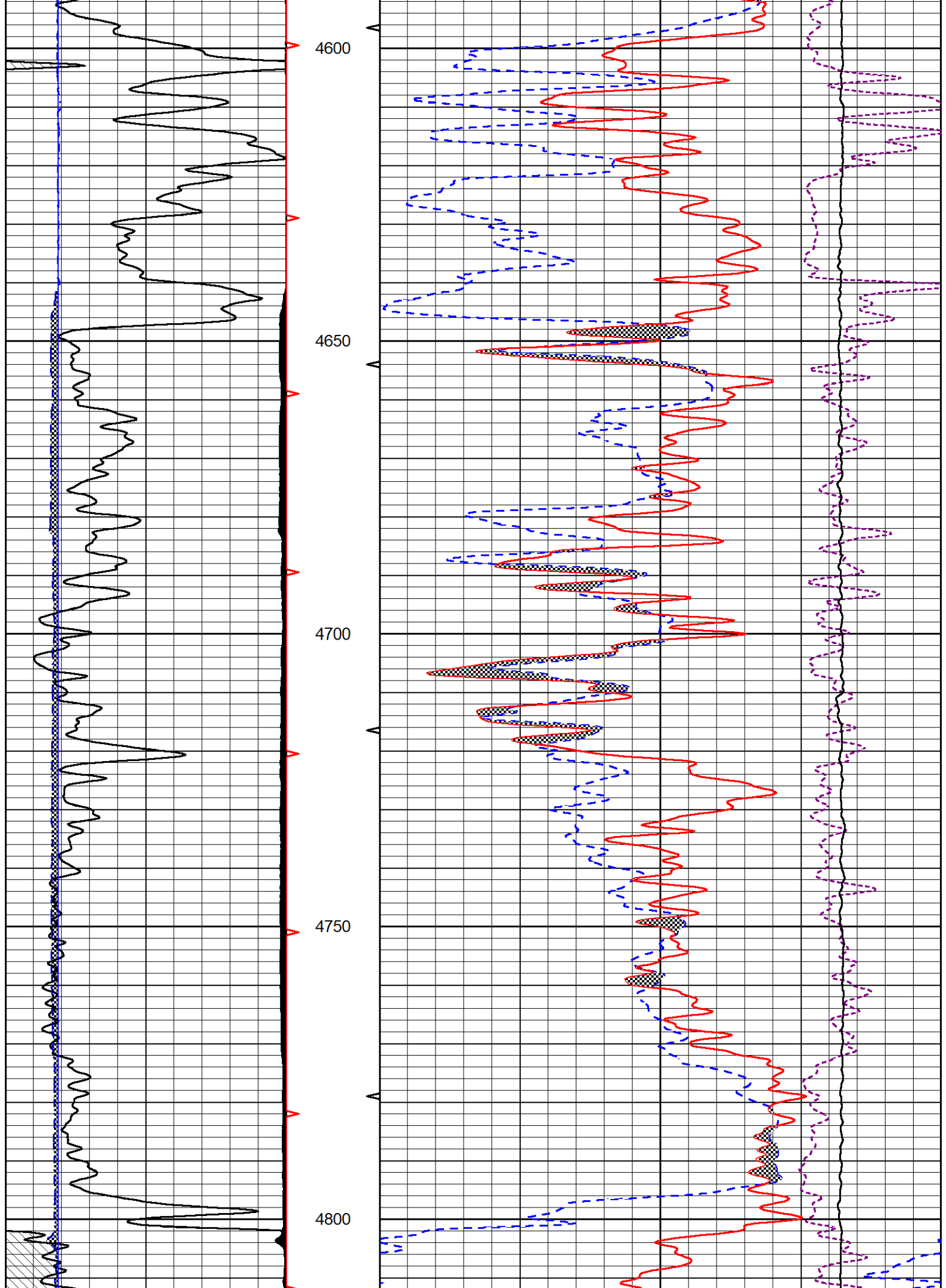


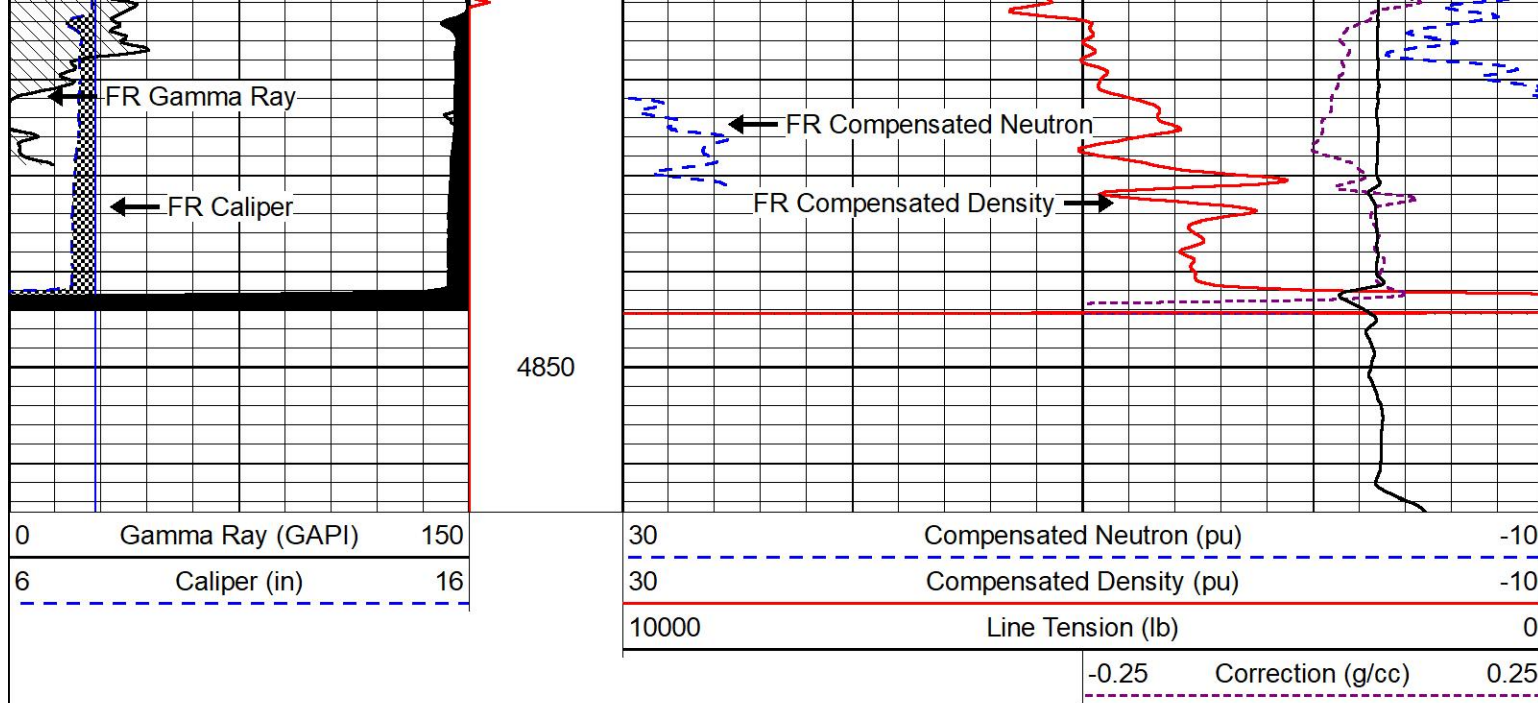










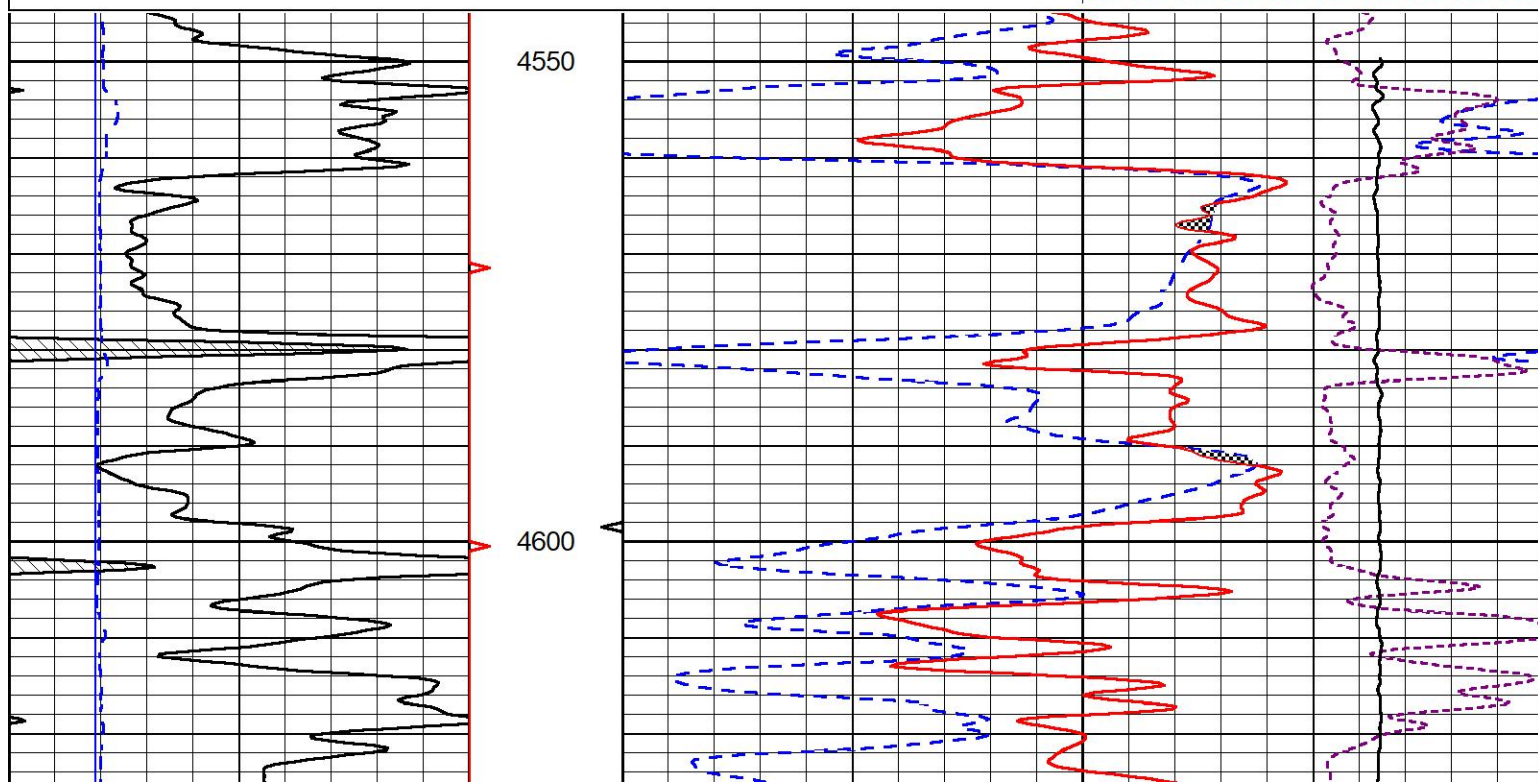
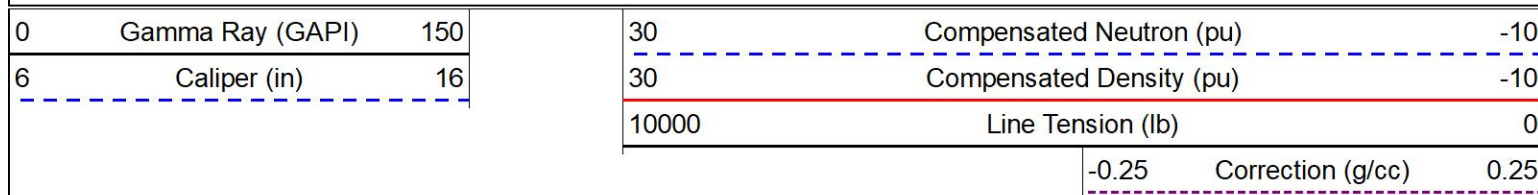


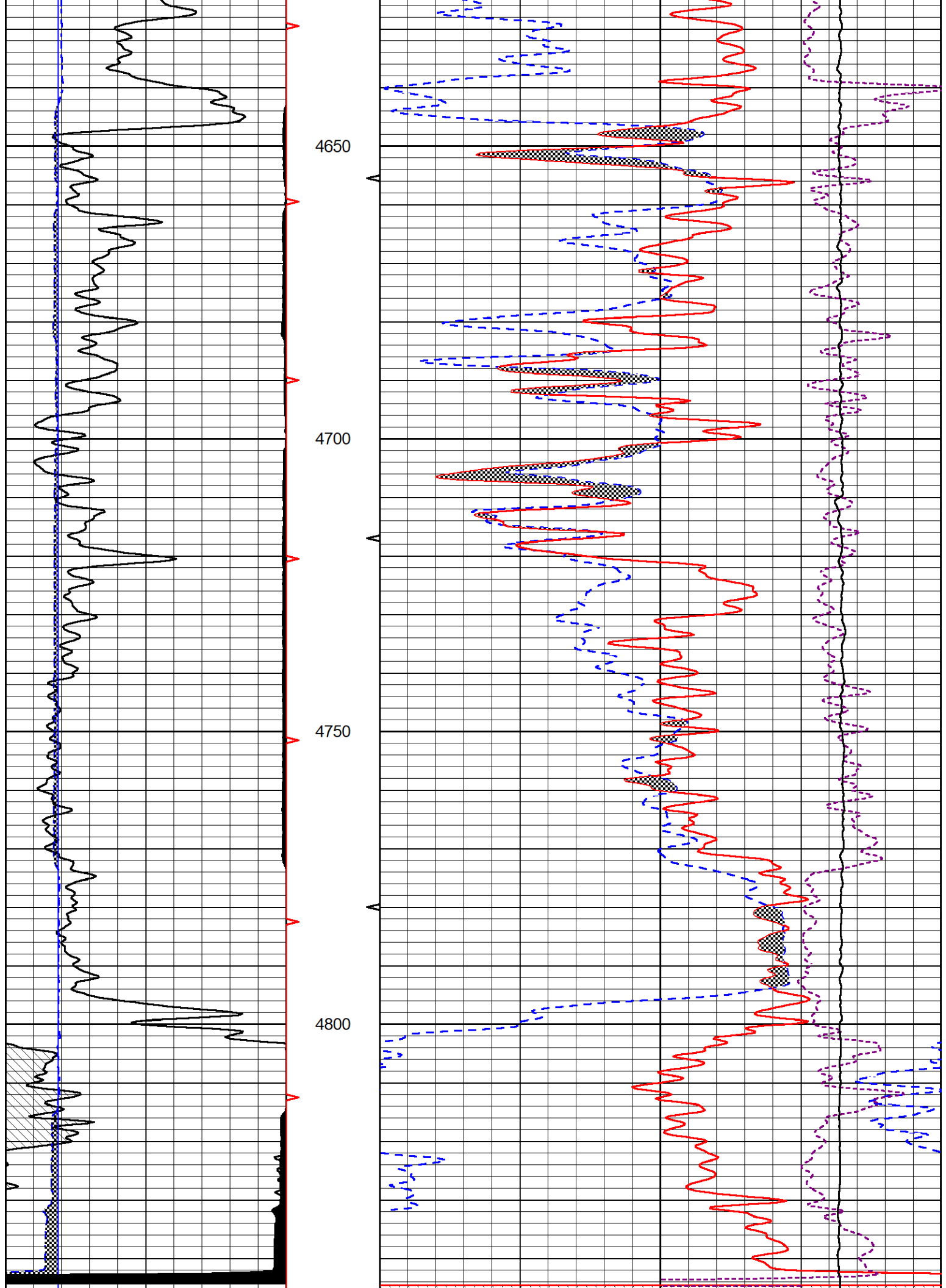
MIDWEST WIRELINE

## REPEAT SECTION

### REPEAT PASS

Database File griffin\_monroe 2.db  
 Dataset Pathname stkml/pass2.15  
 Presentation Format \_CNDLS~1  
 Dataset Creation Tue Jun 28 06:56:21 2022  
 Charted by Depth in Feet scaled 1:240





|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Compensated Neutron Calibration Report

Serial Number: 207-MW  
Tool Model: M&W

## 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        |

## PRE-SURVEY VERIFICATION

|    | Detector    | Readings | Measured | Target |
|----|-------------|----------|----------|--------|
| 1) | Short Space | cps      |          |        |
|    | Long Space  | cps      | pu       | pu     |
| 2) | Short Space | cps      |          |        |
|    | Long Space  | cps      | pu       |        |
| 3) | Short Space | cps      |          |        |
|    | Long Space  | cps      | pu       |        |

## POST-SURVEY VERIFICATION

|    | Detector    | Readings | Measured | Target |
|----|-------------|----------|----------|--------|
| 1) | Short Space | cps      |          |        |
|    | Long Space  | cps      | pu       | pu     |
| 2) | Short Space | cps      |          |        |
|    | Long Space  | cps      | pu       | pu     |
| 3) | Short Space | cps      |          |        |
|    | Long Space  | cps      | pu       | pu     |

## 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 Griffin Management, LLC  
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