



DUAL COMPENSATED  
POROSITY w/PE

MIDWEST WIRELINE

Company Griffin Management LLC  
Well Gary #2  
Field Turkey Creek East  
County Barber State Kansas

Location: API #: 15-007-24478-00-00

Other Services

Permanent Datum NE NE NE NE  
Log Measured From 130 FNL & 220 FEL  
Drilling Measured From Kelly Bushing  
SEC 16 TWP 30S RGE 15W

DIL/MEL

Elevation 1947  
K.B. 1952  
D.F. 1947  
G.L. 1947

Date 8/8/2023

Run Number One

Type Log CNL/CDL

Depth Driller 4772

Depth Logger 4772

Bottom Logged Interval 4743

Top Logged Interval 2800

Type Fluid In Hole Chemical

Salinity, PPM CL 5000

Density 9.3

Level 375

Max. Rec. Temp. F 124

Operating Rig Time 3 Hours

Equipment -- Location P-24 Hays

Recorded By T. Martin

Witnessed By Eli Felts

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One 17.25 00 44 13.375 32 00 44

Two 12.25 44 976 8.625 23 00 976

Three 7.875 976 TD

<<< Fold Here >>>

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, KS, S to 110, 1 E, S & E 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: T. Martin  
Operator:  
Operator:  
Operator:

This Log Record Was Witnessed By

Primary Witness: Eli Felts  
Secondary Witness:  
Secondary Witness:  
Secondary Witness:



# Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin\_gary #2.db  
Dataset field/well/StkMI/pass3.1/\_vars\_

## Top - Bottom

|                       |                         |                      |                       |                       |                          |                      |             |
|-----------------------|-------------------------|----------------------|-----------------------|-----------------------|--------------------------|----------------------|-------------|
| BOREID<br>in<br>7.875 | BOTTEMP<br>degF<br>124  | CASEOD<br>in<br>5.5  | CASETHCK<br>in<br>0   | FLUIDDEN<br>g/cc<br>1 | MATRXDEN<br>g/cc<br>2.71 | NPORSEL<br>Limestone | PERFS<br>No |
| SNDERR<br>mmho/m<br>0 | SNDERRM<br>mmho/m<br>-1 | SPSHIFT<br>mV<br>380 | SRFTEMP<br>degF<br>80 | SZCOR<br>Off          | TDEPTH<br>ft<br>4772     |                      |             |

## Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
FLUIDDEN : Fluid Density  
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

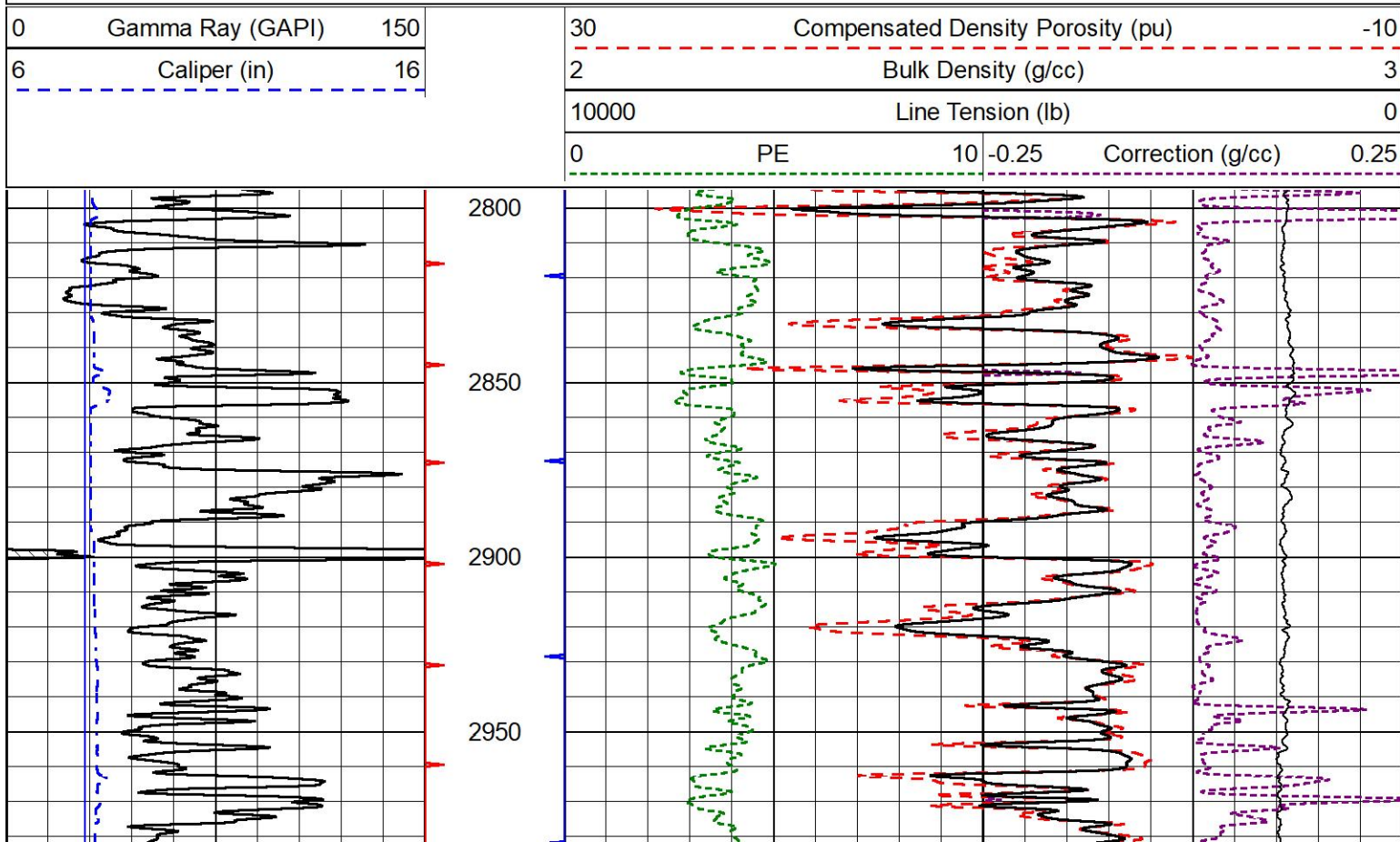


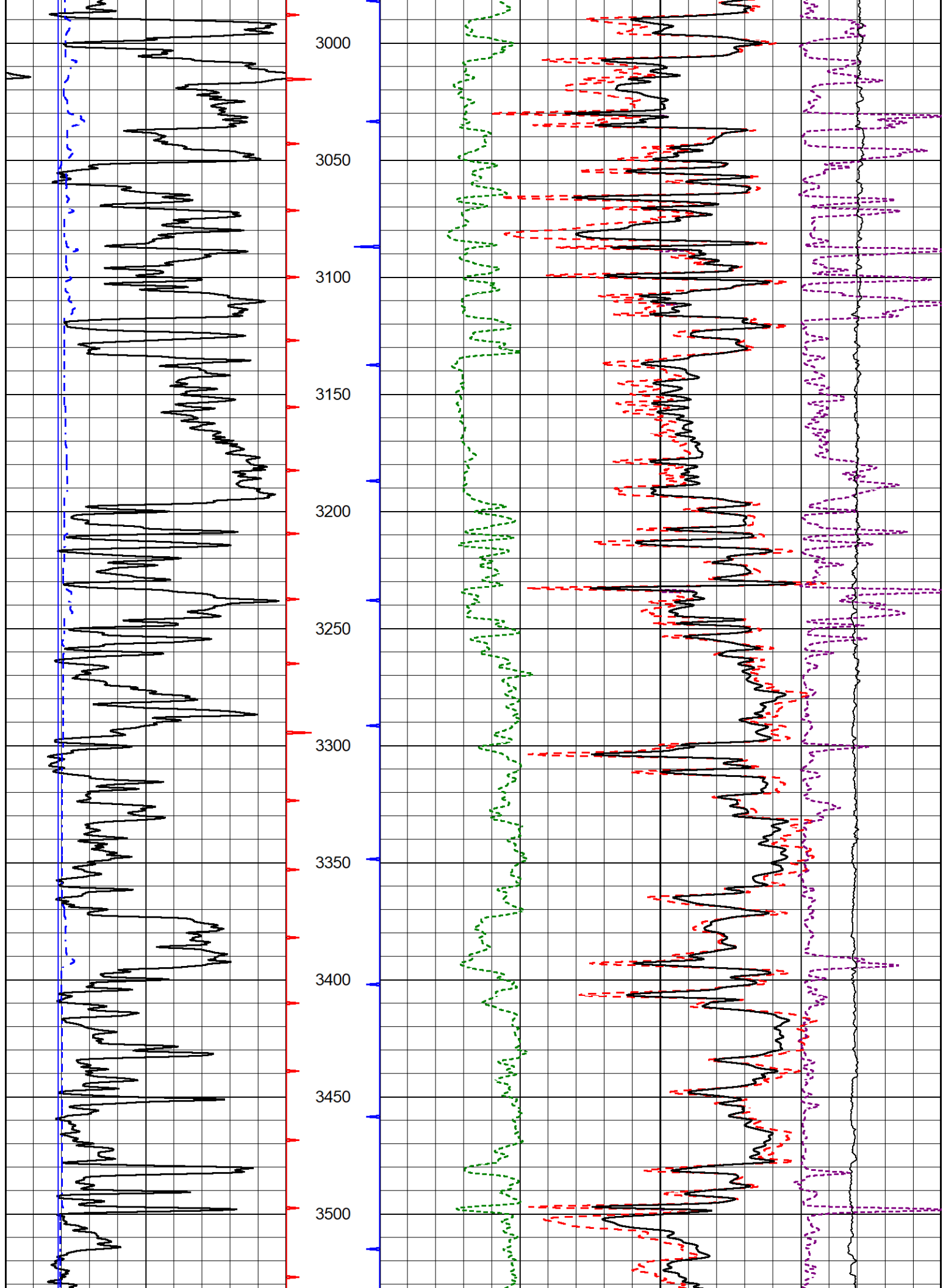
MIDWEST WIRELINE

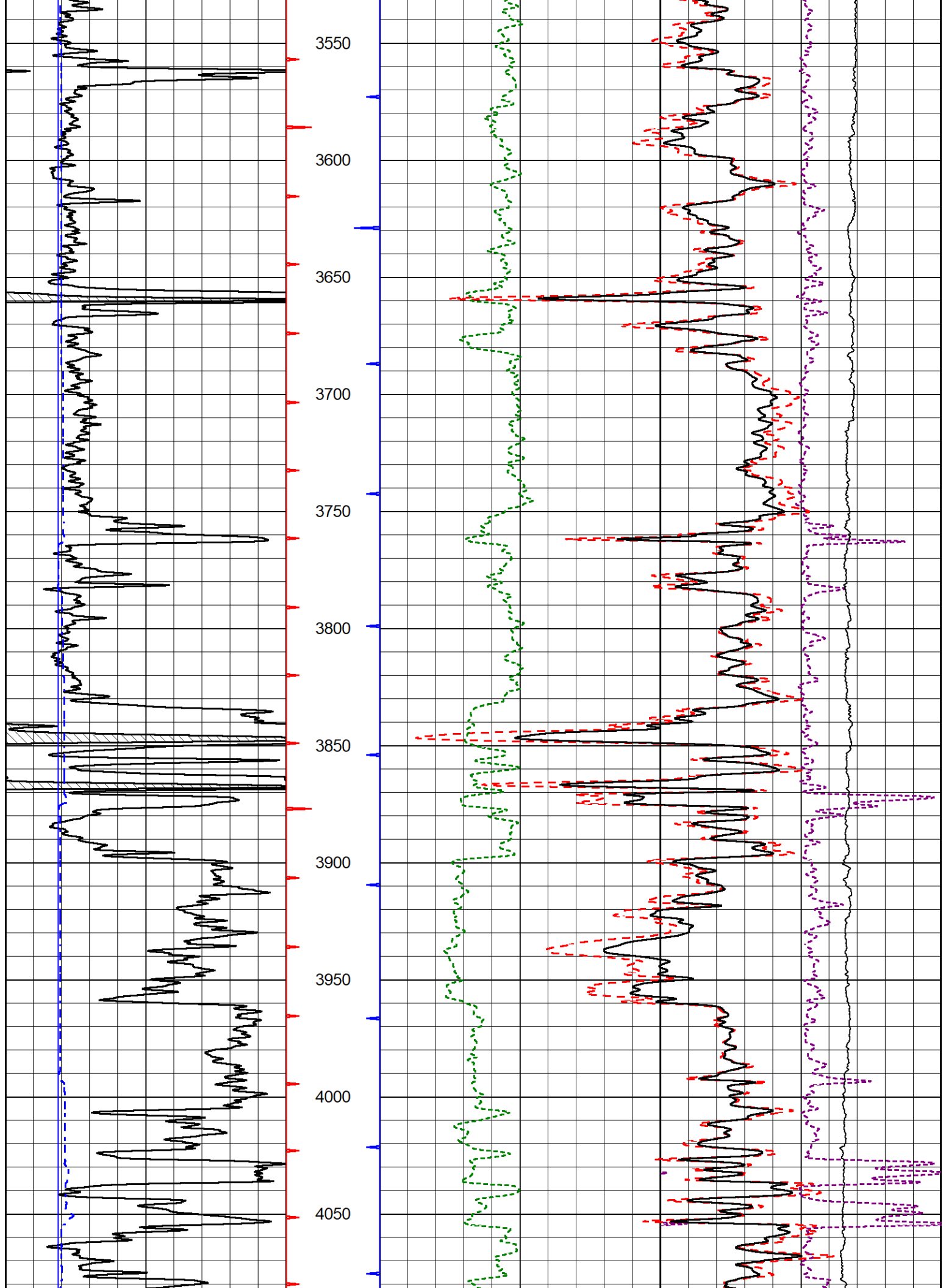
## 2" SCALE BULK DENSITY

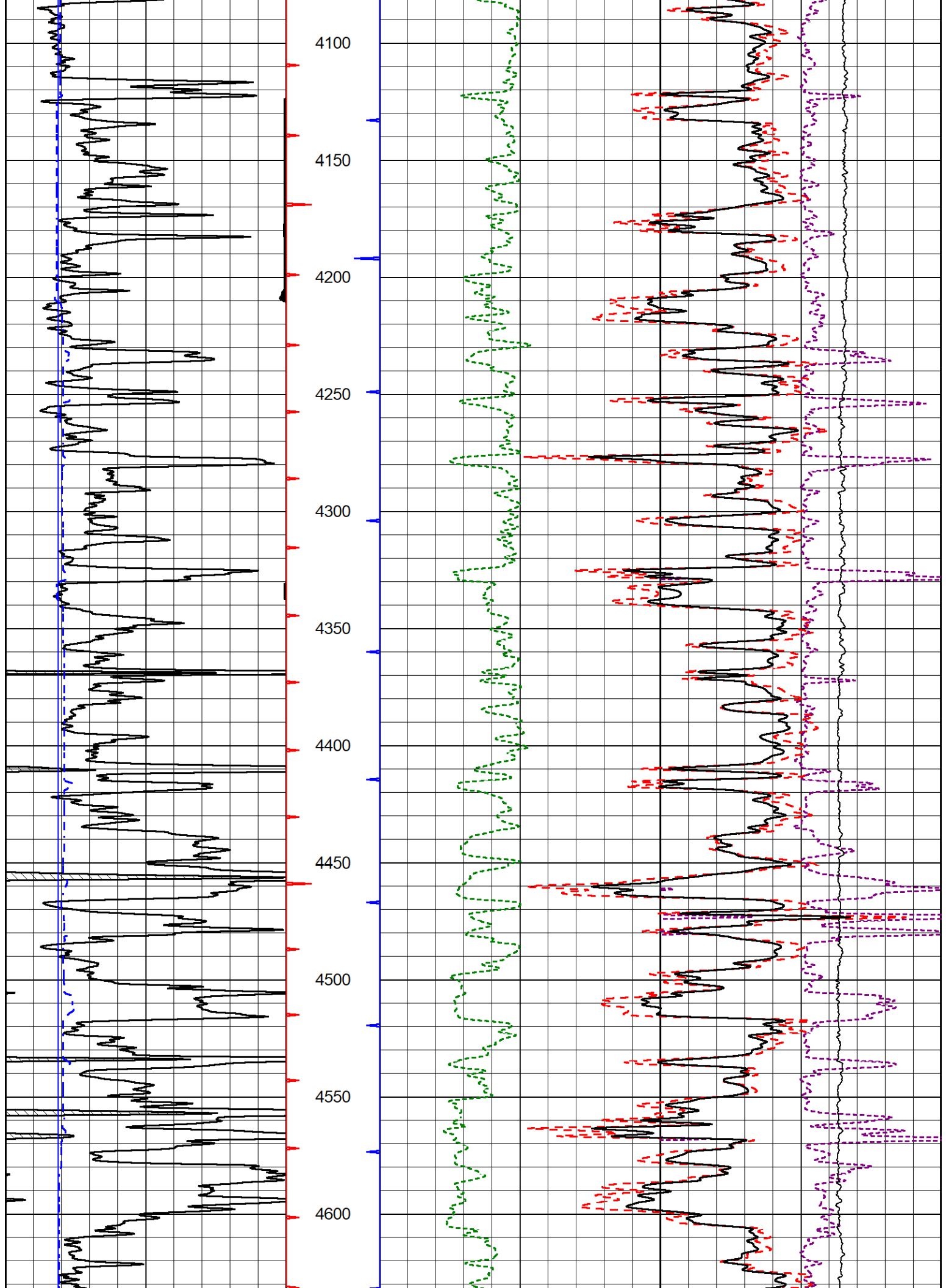
### MAIN PASS

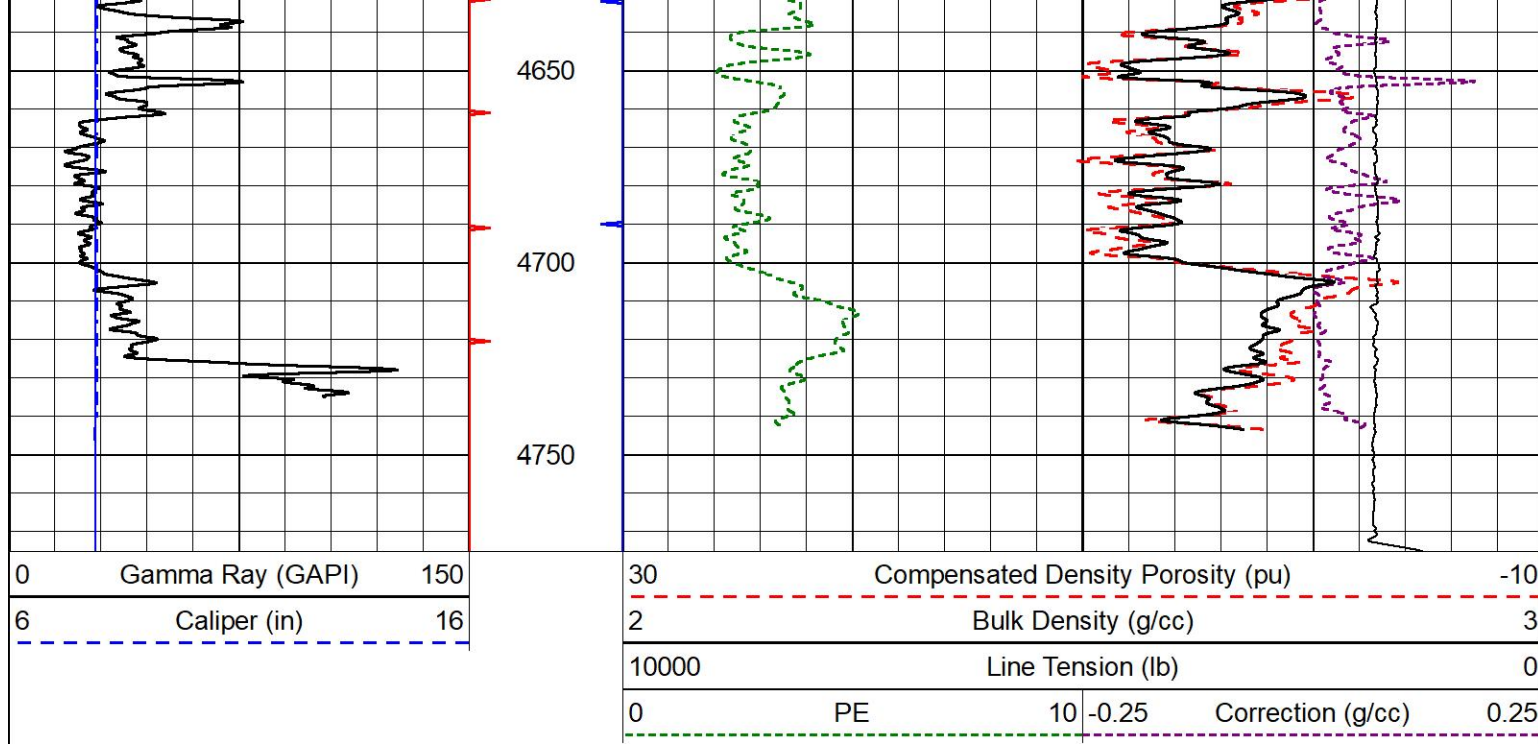
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Dataset Pathname StkMI/pass3.3  
Presentation Format \_cdlpe  
Dataset Creation Tue Aug 08 15:33:57 2023  
Charted by Depth in Feet scaled 1:600







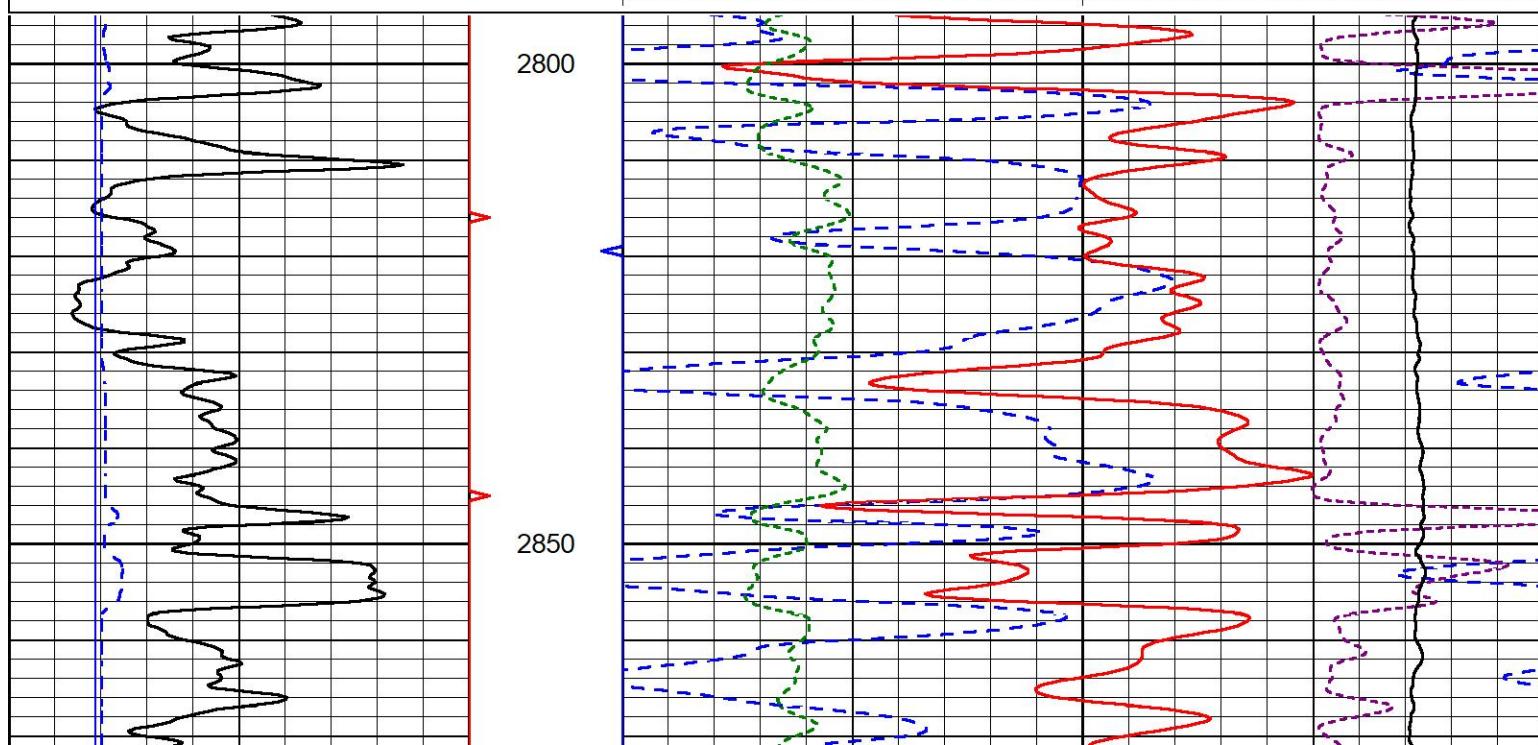
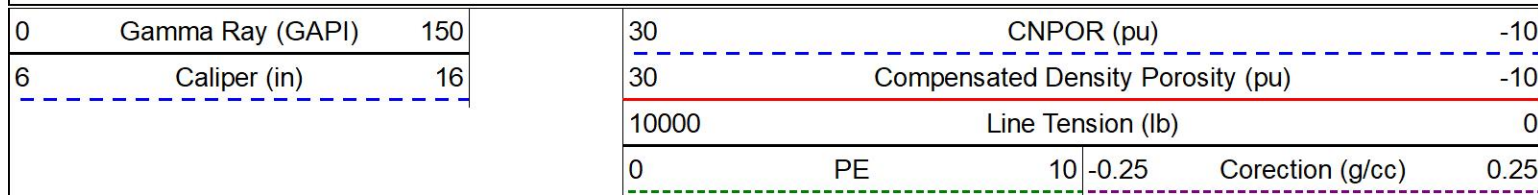


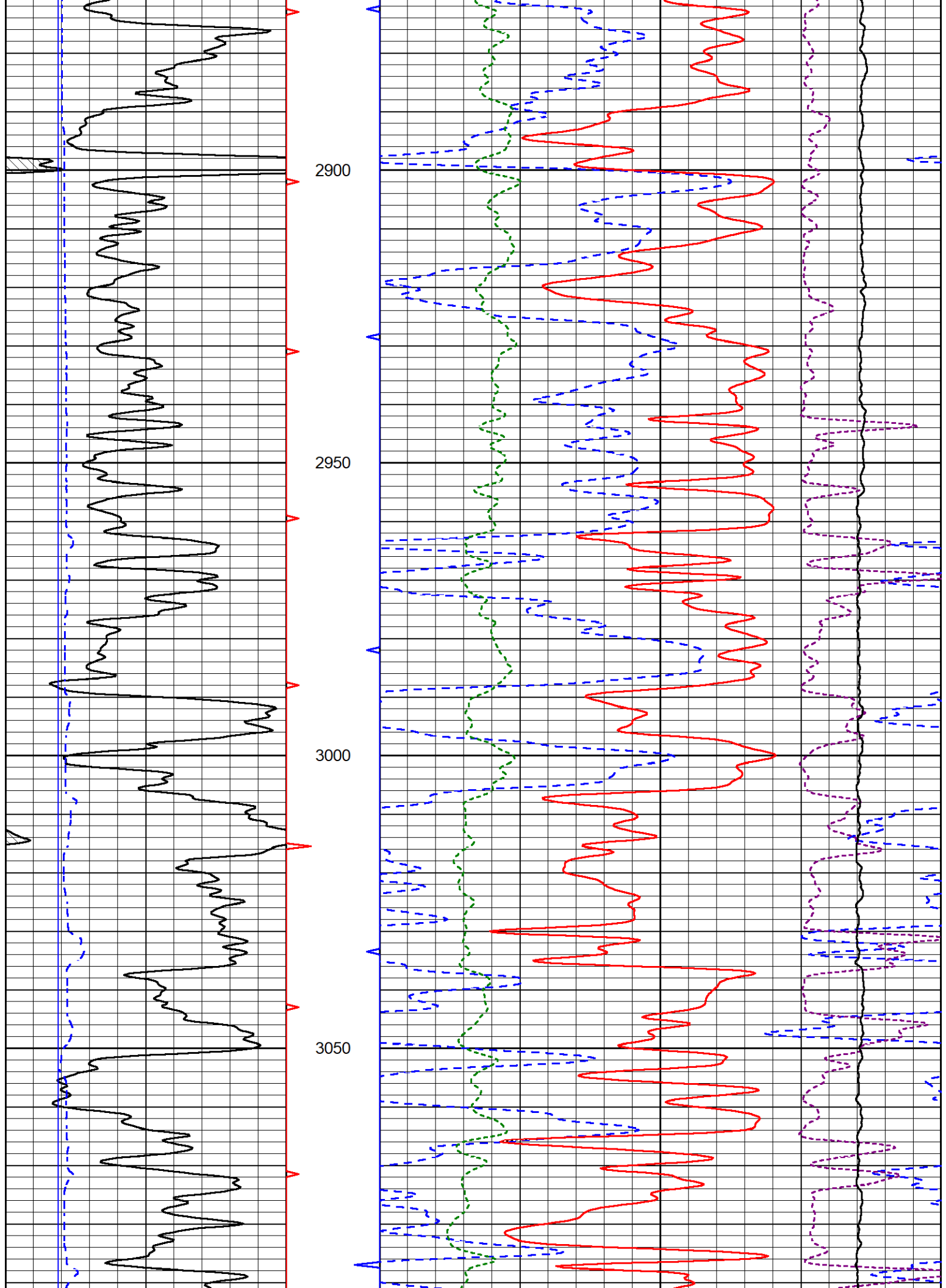


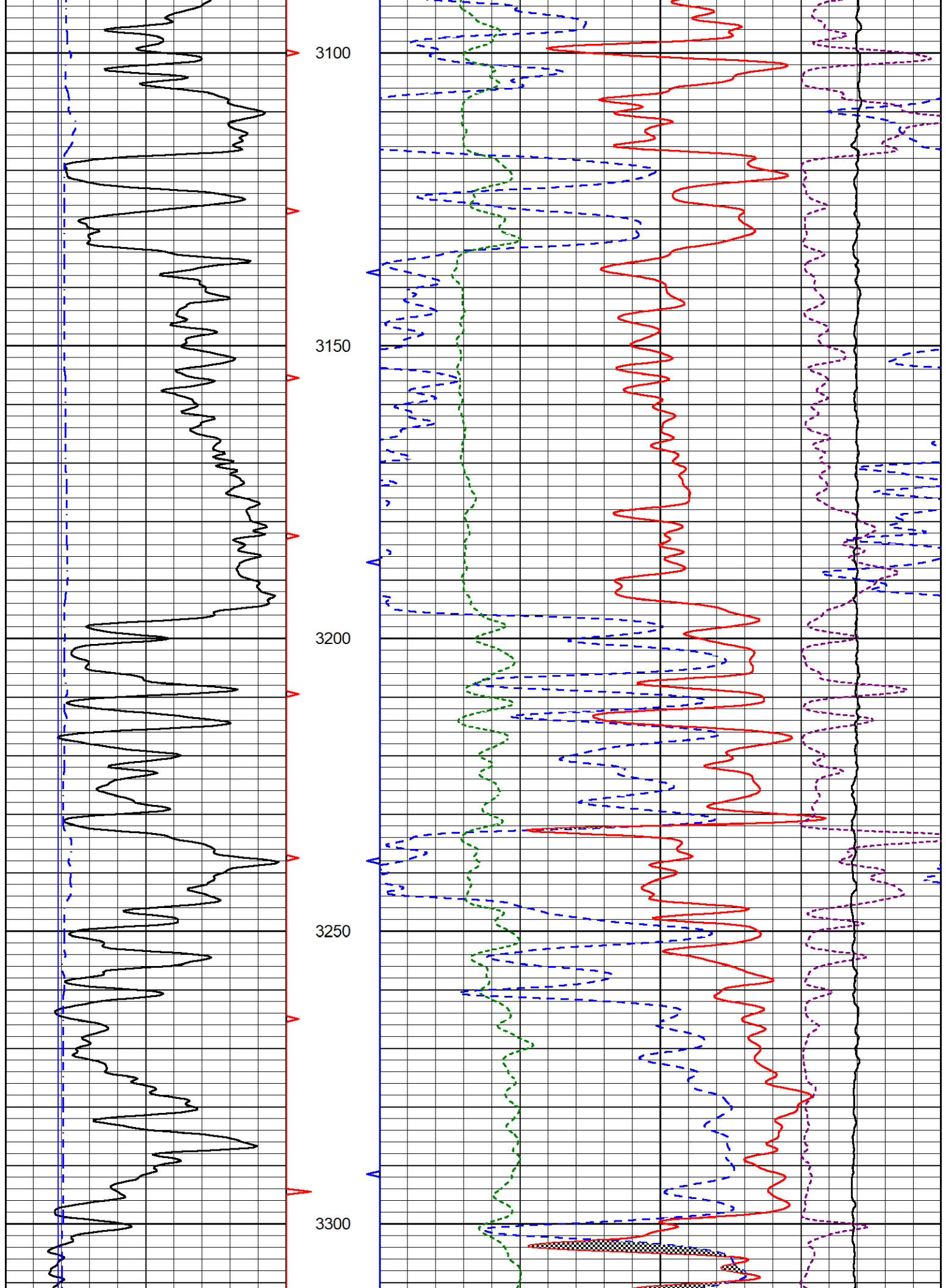
## DETAIL SECTION

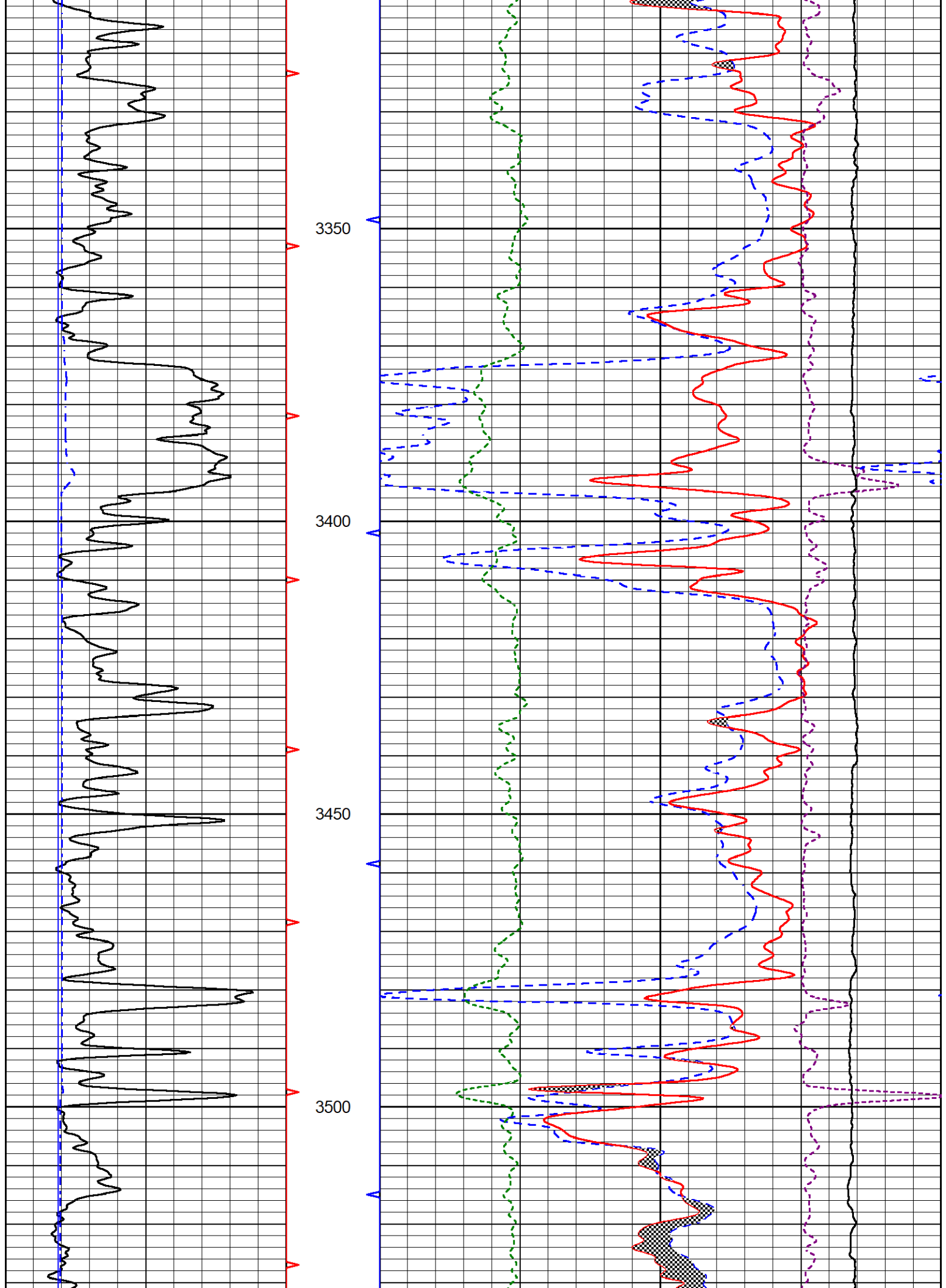
### MAIN PASS

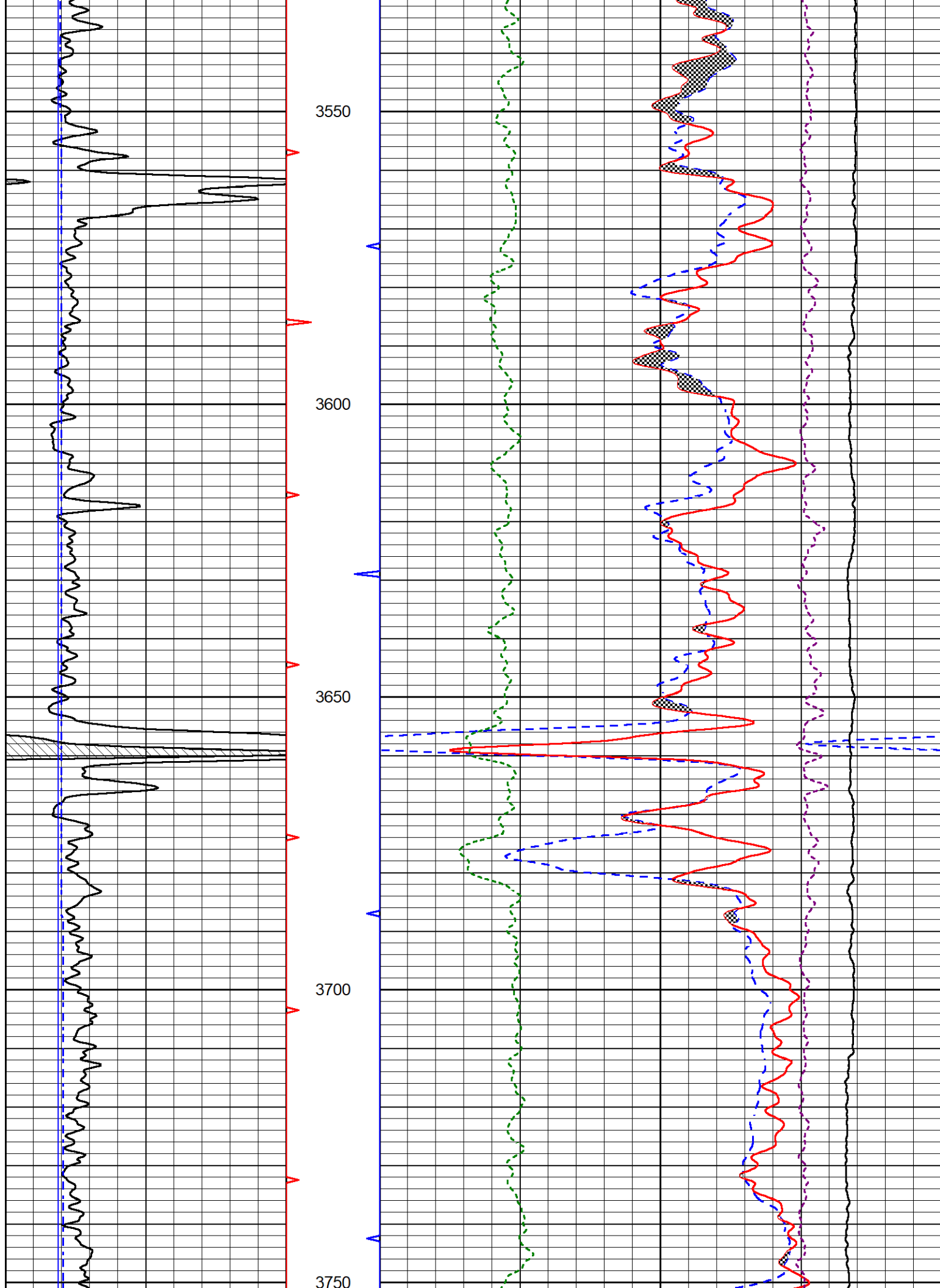
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 Dataset Pathname StkMI/pass3.1  
 Presentation Format \_CNDLS~4  
 Dataset Creation Tue Aug 08 16:04:29 2023  
 Charted by Depth in Feet scaled 1:240

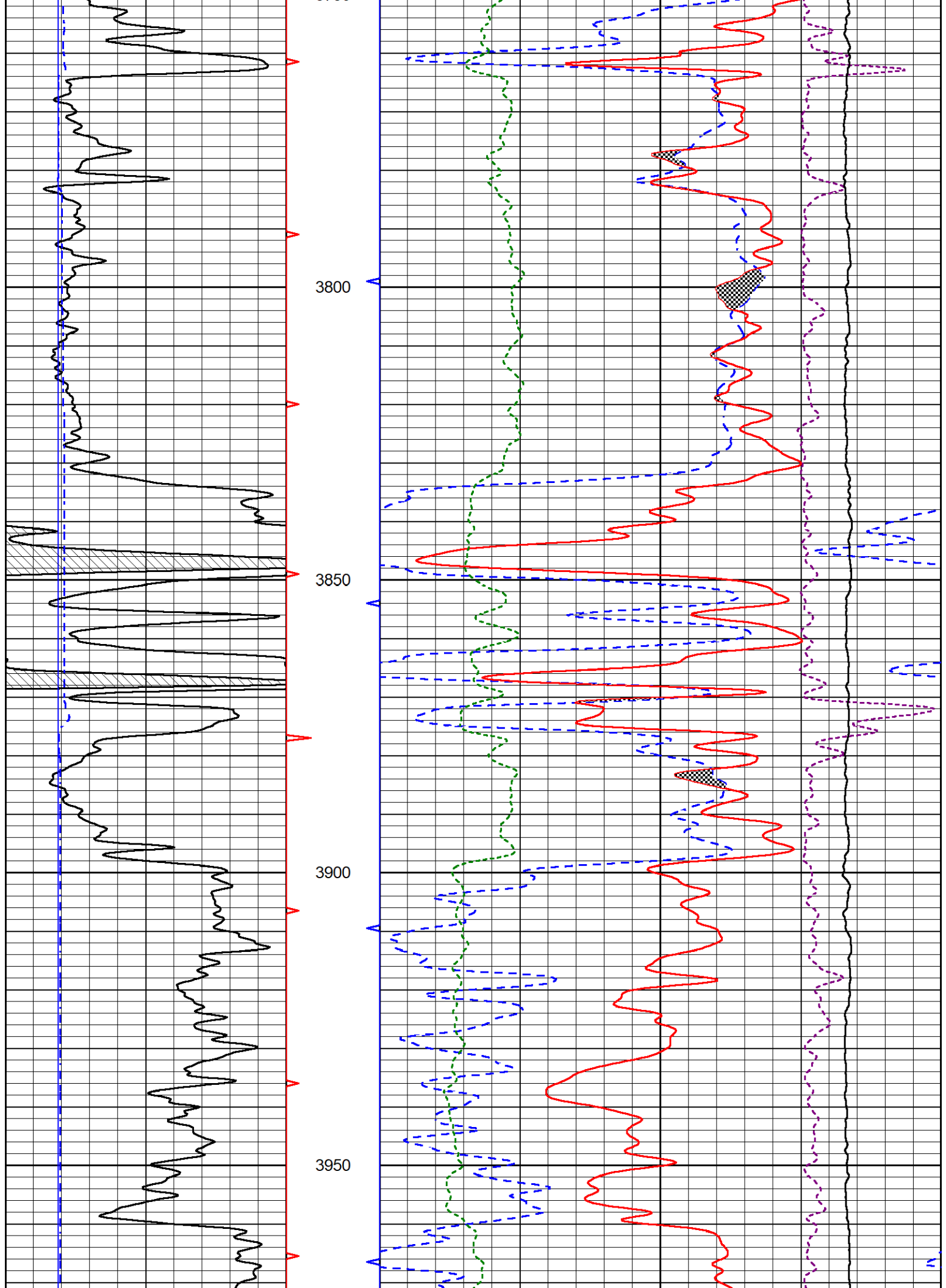


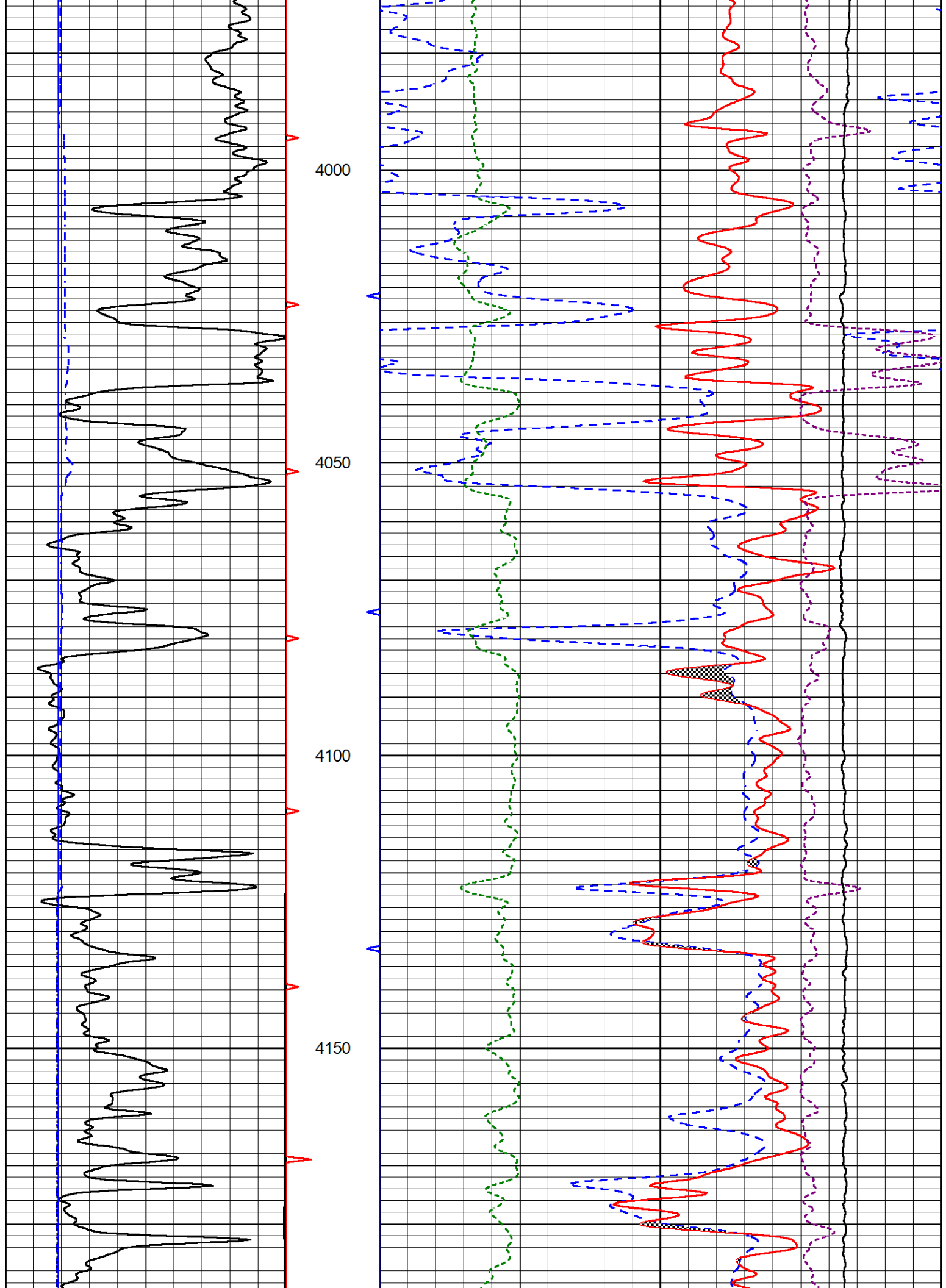


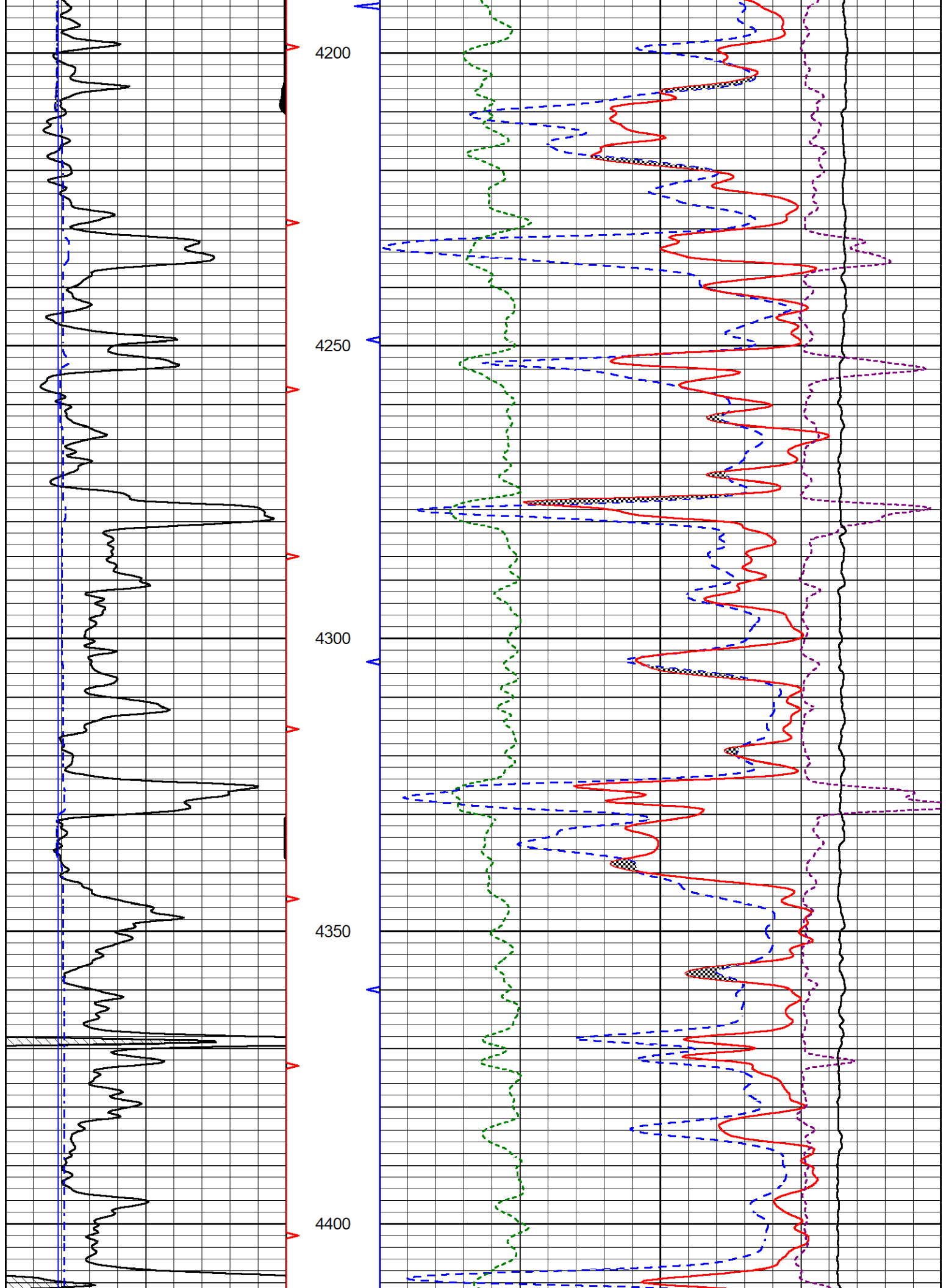


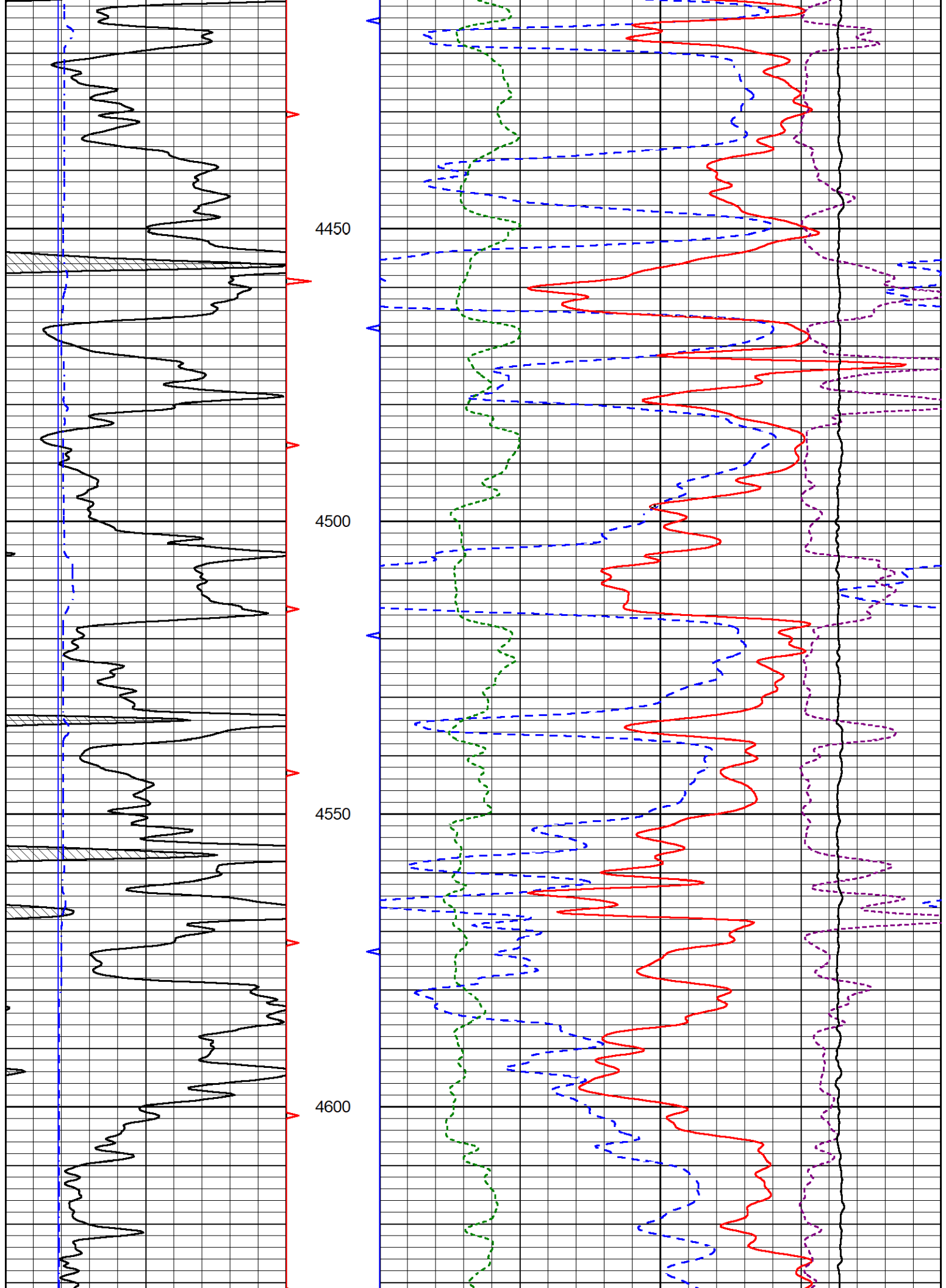


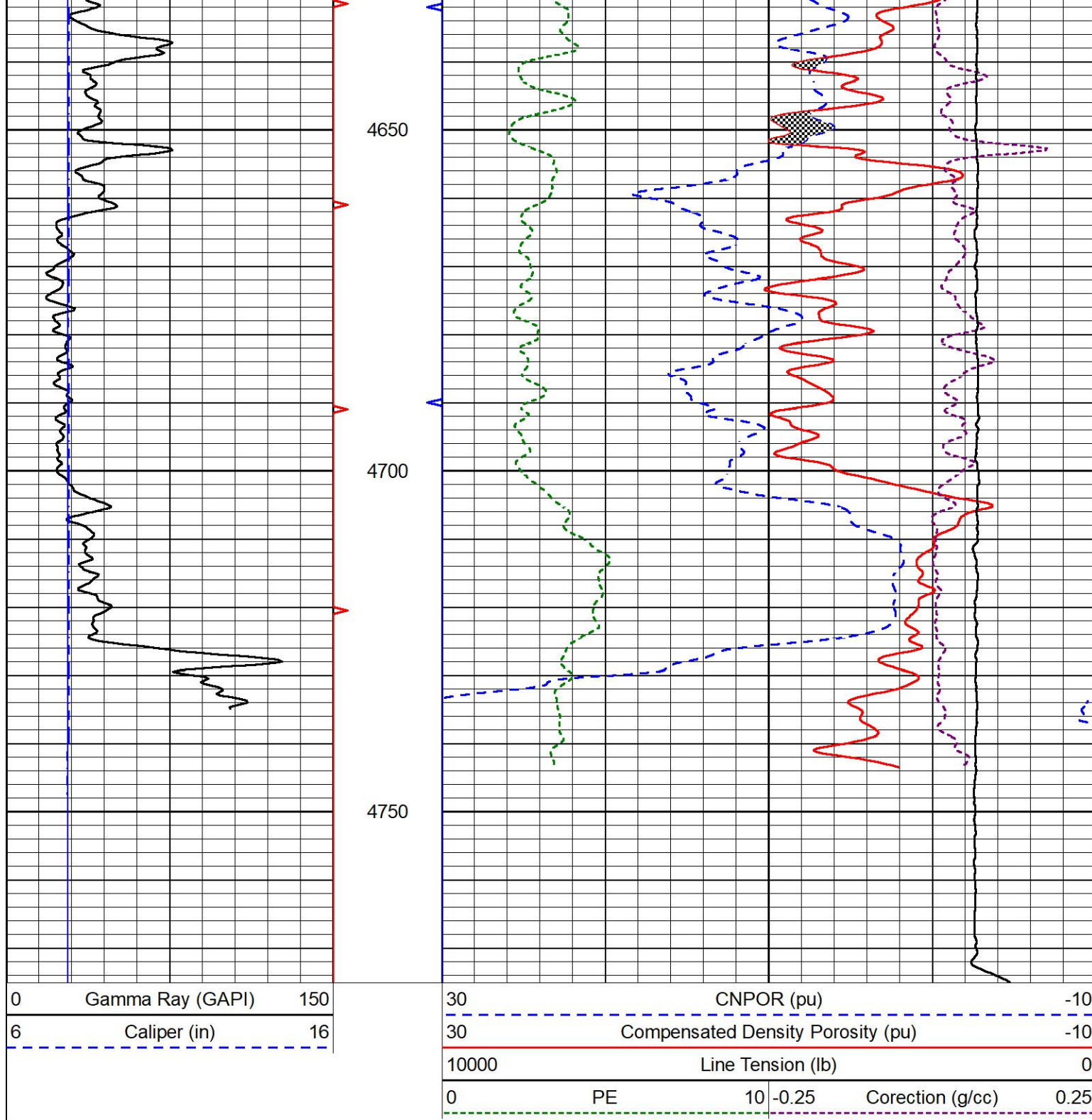












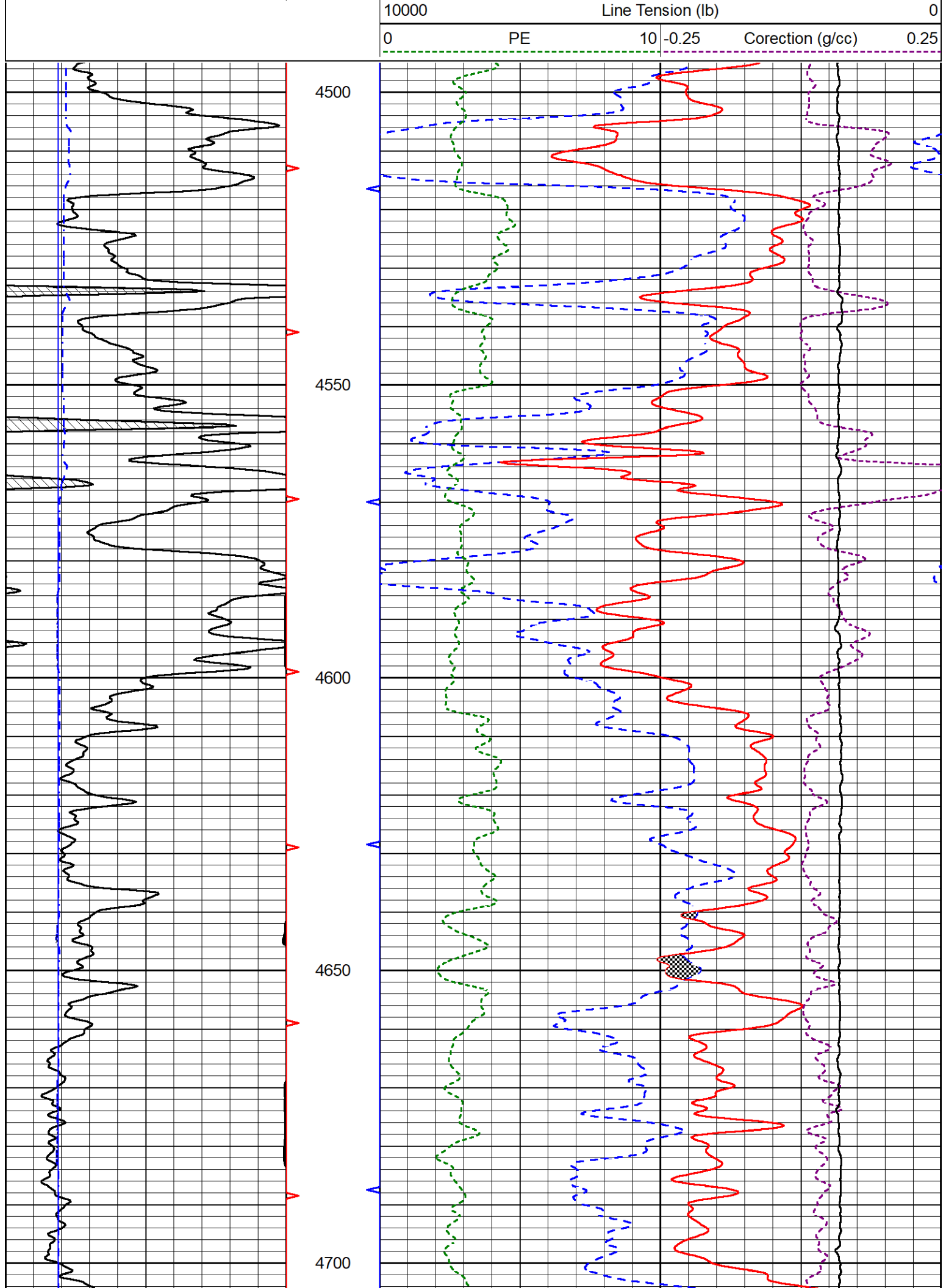
MIDWEST WIRELINE

## REPEAT SECTION

### REPEAT PASS

Database File griffin\_gary #2.db  
 Dataset Pathname StkMI/pass2.1  
 Presentation Format \_CNDLS~4  
 Dataset Creation Tue Aug 08 15:30:18 2023  
 Charted by Depth in Feet scaled 1:240







|                                        |      |         |            |                  |          |            |               |      |     |
|----------------------------------------|------|---------|------------|------------------|----------|------------|---------------|------|-----|
| Source:                                |      |         |            |                  |          |            |               |      |     |
|                                        | Win1 | Win2    | Win3       | Win4             | Win5     | Win6       | Win7          | Win8 |     |
| Background:                            |      |         |            |                  |          |            |               |      |     |
| SS:                                    | 51   | 54      | 202        | 252              | 21       | 70         | 42            | 1    | cps |
| LS:                                    | 85   | 96      | 363        | 462              | 53       | 147        | 97            | 3    | cps |
| Aluminum:                              |      |         |            |                  |          |            |               |      |     |
| SS:                                    | 870  | 1018    | 2321       | 2004             | 37       | 71         | 43            | 2    | cps |
| LS:                                    | 1057 | 1828    | 3315       | 1570             | 61       | 147        | 91            | 5    | cps |
| Magnesium:                             |      |         |            |                  |          |            |               |      |     |
| SS:                                    | 1459 | 1669    | 3829       | 2914             | 42       | 70         | 46            | 3    | cps |
| LS:                                    | 4526 | 7550    | 13047      | 4982             | 98       | 135        | 93            | 13   | cps |
| Aluminum+Iron:                         |      |         |            |                  |          |            |               |      |     |
| SS:                                    | 553  | 719     | 1939       | 1750             | 37       | 72         | 45            | 2    | cps |
| LS:                                    | 613  | 1297    | 2812       | 1404             | 60       | 146        | 96            | 4    | cps |
|                                        |      |         |            |                  |          |            |               |      |     |
|                                        |      | Density |            |                  | PE       |            |               |      |     |
|                                        |      | Actual  | Calibrated |                  | Actual   | Calibrated | Quality       |      |     |
| Background:                            |      |         |            |                  |          |            |               |      |     |
| SS:                                    |      |         |            |                  |          |            | 0.245         |      |     |
| LS:                                    |      |         |            |                  |          |            | 0.205         |      |     |
| Aluminum:                              |      |         |            |                  |          |            |               |      |     |
| SS:                                    |      | 2.6000  | 2.6000     | g/cc             |          |            | 0.240         |      |     |
| LS:                                    |      | 2.6000  | 2.6000     | g/cc             |          |            | 0.236         |      |     |
| Magnesium:                             |      |         |            |                  |          |            |               |      |     |
| SS:                                    |      | 1.6800  | 1.6800     | g/cc             | 2.5700   | 2.5700     | 0.210         |      |     |
| LS:                                    |      | 1.6800  | 1.6800     | g/cc             | 2.5700   | 2.5700     | 0.184         |      |     |
| Aluminum+Iron:                         |      |         |            |                  |          |            |               |      |     |
| SS:                                    |      |         |            |                  |          | 6.1800     | 0.228         |      |     |
| LS:                                    |      |         |            |                  |          | 6.1800     | 0.206         |      |     |
|                                        |      |         |            |                  |          |            |               |      |     |
| Before Survey                          |      |         |            |                  |          |            |               |      |     |
| Performed:                             |      |         |            |                  |          |            |               |      |     |
| SS:                                    | 0    | 0       | 0          | 0                | 0        | 0          | 0             | 0    | cps |
| LS:                                    | 1370 | 1580    | 3705       | 3037             | 48       | 80         | 50            | 4    | cps |
| After Survey                           |      |         |            |                  |          |            |               |      |     |
| Performed:                             |      |         |            |                  |          |            |               |      |     |
| SS:                                    | 0    | 0       | 0          | 0                | 0        | 0          | 0             | 0    | cps |
| LS:                                    | 1400 | 1600    | 3800       | 3100             | 60       | 100        | 70            | 6    | cps |
|                                        |      |         |            |                  |          |            |               |      |     |
| Caliper:                               |      |         | Reference: |                  | Reading: |            |               |      |     |
| Small Ring:                            |      |         | 6.0        | in               | 0.2      |            |               |      |     |
| Large Ring:                            |      |         | 15.0       | in               | 0.8      |            |               |      |     |
| Gain:                                  |      |         | 16.161     |                  |          |            |               |      |     |
| Offset:                                |      |         | 0.890      |                  |          |            |               |      |     |
|                                        |      |         |            |                  |          |            |               |      |     |
| Compensated Neutron Calibration Report |      |         |            |                  |          |            |               |      |     |
|                                        |      |         |            |                  |          |            |               |      |     |
| Serial Number:                         |      |         |            |                  | 207      |            |               |      |     |
| 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        |      |     |
|                                        |      |         |            |                  |          |            |               |      |     |
|                                        |      |         |            |                  |          |            |               |      |     |
| Gamma Ray Calibration Report           |      |         |            |                  |          |            |               |      |     |
|                                        |      |         |            |                  |          |            |               |      |     |
| Serial Number:                         |      |         |            | 105              |          |            |               |      |     |
| Tool Model:                            |      |         |            | M&W              |          |            |               |      |     |
| Performed:                             |      |         |            | 5-22-12 01:00:00 |          |            |               |      |     |

|                     |                         |          |
|---------------------|-------------------------|----------|
| Performed:          | Mon Aug 7 20:46:01 2023 |          |
| Calibrator Value:   | 500.0                   | GAPI     |
| Background Reading: | 24.0                    | cps      |
| Calibrator Reading: | 637.0                   | cps      |
| Sensitivity:        | 0.6000                  | GAPI/cps |



MIDWEST WIRELINE

|         |                        |
|---------|------------------------|
| Company | Griffin Management LLC |
| Well    | Gary #2                |
| Field   | Turkey Creek East      |
| County  | Barber                 |
| State   | Kansas                 |