



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company MG Oil, Inc.
 Well Lawrence Unit #15-2
 Field N&J
 County Lane
 State Kansas

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Location: API #: 15-101-22659-00-00
 SE SE SE NW
 2400 FNL & 2453 FWL
 SEC 15 TWP 16S RGE 28W

Permanent Datum Ground Level Elevation 2576
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing

Other Services
 CNL/CDL
 DIL/BHCS

Elevation
 K.B. 2584
 D.F.
 G.L. 2576

| | |
|------------------------|-------------|
| Date | 10/25/2021 |
| Run Number | Two |
| Depth Driller | 4510 |
| Depth Logger | 4509 |
| Bottom Logged Interval | 4508 |
| Top Log Interval | 3400 |
| Casing Driller | 8:625 @ 264 |
| Casing Logger | 262 |
| Bit Size | 7.875 |
| Type Fluid in Hole | Chemical |
| Salinity, ppm CL | 2300 |
| Density / Viscosity | 9.3 50 |
| pH / Fluid Loss | 10.0 8.8 |
| Source of Sample | FLOWLINE |
| Rm @ Meas. Temp | 0.8 @ 70 |
| Rmt @ Meas. Temp | 0.6 @ 70 |
| Rmc @ Meas. Temp | 1.08 @ 70 |
| Source of Rmf / Rmc | CHARTS |
| Rm @ BHT | 0.46 @ 121 |
| Operating Rig Time | 4 Hours |
| Max Rec. Temp. F | 121 |
| Equipment Number | P-108 |
| Location | HAYS |
| Recorded By | T. Martin |
| Witnessed By | Chad Counts |

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

Shields, KS, E side, N on Laredo Rd to 280th
 1.5 E to Newton Rd, S & E into

Log Measured From: Kelly Bushing 8 Ft. Above Permanent Datum

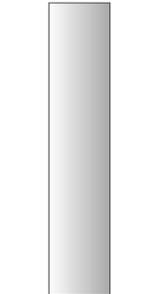
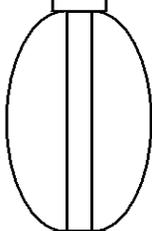
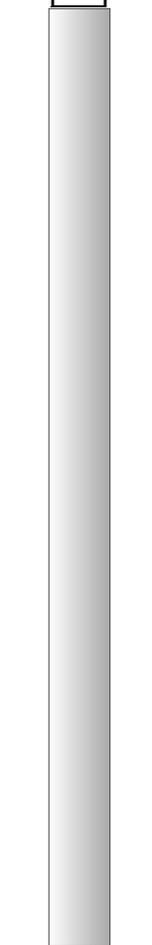
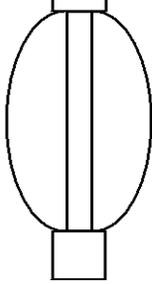
THANK YOU FOR USING MIDWEST WIRELINE LLC
 785-625-3858

Your Midwest Wireline Crew

Engineer: T. Martin
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Chad Counts
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|------------------|-------------------------|---|---|-------------|-----------|-------------|
| MCAL MI MN | 28.00 28.00 28.00 |  | ML-Armadillo (Armadillo-1) Pengo micro log tool mandrel with Armadillo Electronics | 5.00 | 3.50 | 100.00 |
| | |  | CENT-PENGO | 5.50 | 3.00 | 70.00 |
| WVF4 WVF1 | 13.50 13.50 |  | SLT-PENGO (0001) | 16.00 | 3.50 | 300.00 |
| WVF3 WVF2 | 11.50 11.50 |  | CENT-PENGO | 5.50 | 3.00 | 70.00 |

Dataset: mgoil_lawrence unit #15-2.db: field/well/SonMel/pass3
 Total length: 32.00 ft
 Total weight: 540.00 lb
 O.D.: 3.50 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\mgoil_lawrence unit #15-2.db
 Dataset field/well/Stack/pass3.1/_vars_

Top - Bottom

| | | | | | | | |
|-----------|--------------|------------------|-------------------|----------------|------------------|-------|------------------|
| A | BOREID in | BOTTEMP degF | CASEOD in | CASETHCK in | FLUIDDEN g/cc | M | MATRXDEN g/cc |
| 1 | 7.875 | 121 | 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 | 650 | 40 | Off | 4509 |



MIDWEST WIRELINE

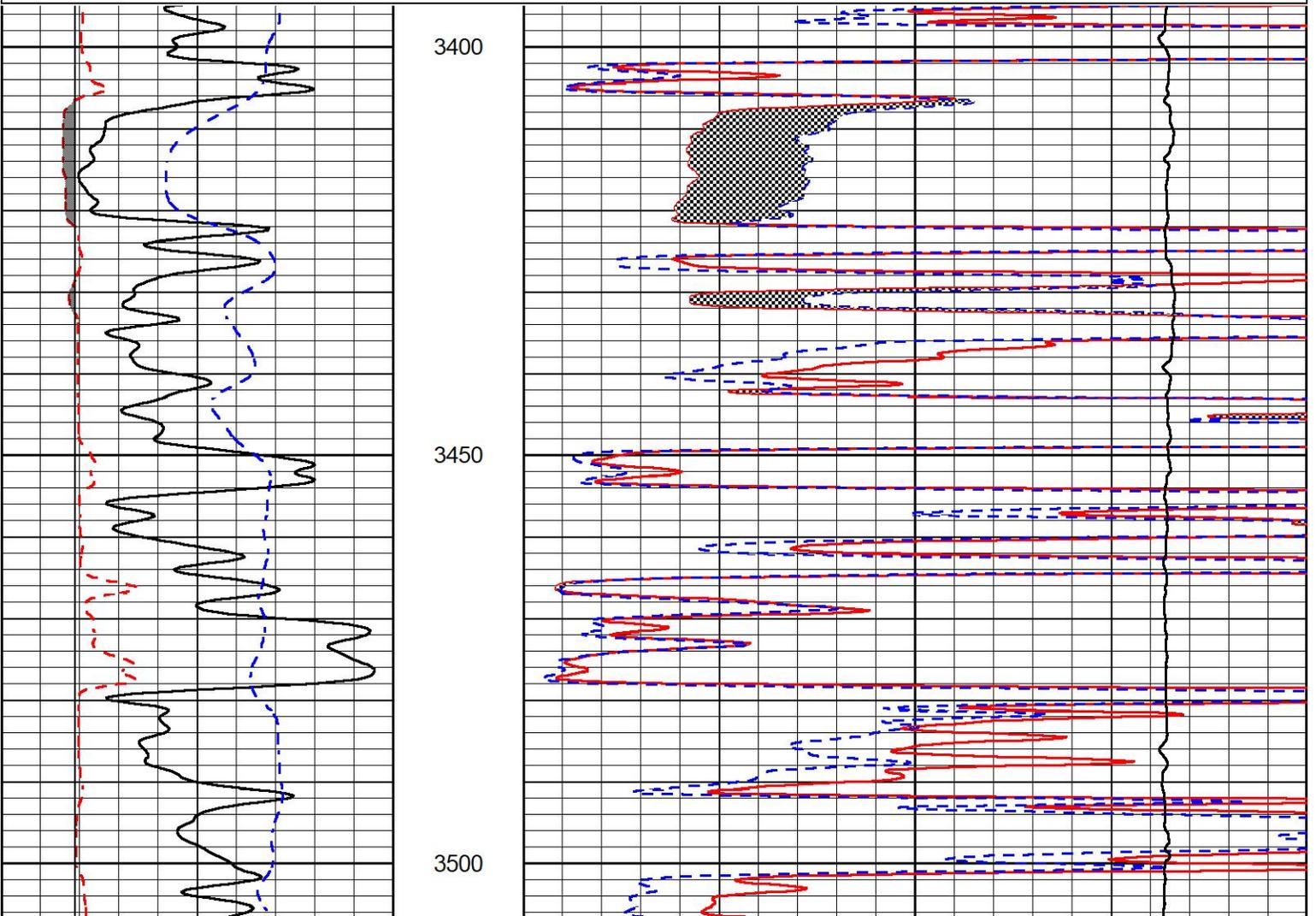
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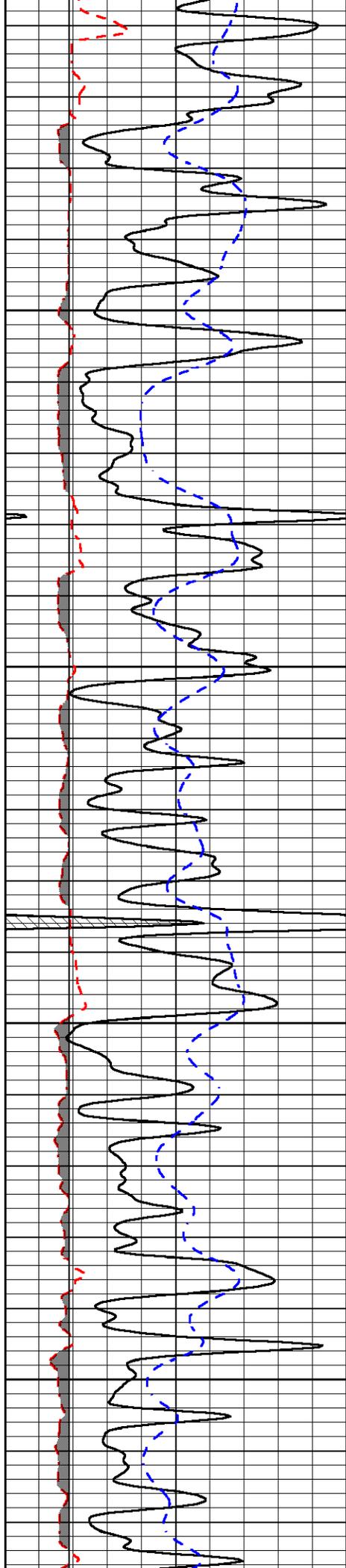
MAIN PASS

Database File mgoil_lawrence unit #15-2.db
 Dataset Pathname Stack/pass3.1
 Presentation Format _micro
 Dataset Creation Mon Oct 25 13:03:14 2021
 Charted by Depth in Feet scaled 1:240

| | | |
|------|------------------|-----|
| 0 | Gamma Ray (GAPI) | 150 |
| 6 | Caliper (in) | 16 |
| -200 | SP (mV) | 0 |

| | | |
|-------|-----------------------------|----|
| 0 | Micro Inverse 1 X 1 (Ohm-m) | 40 |
| 0 | Micro Normal 2" (Ohm-m) | 40 |
| 10000 | Line Weight (lb) | 0 |



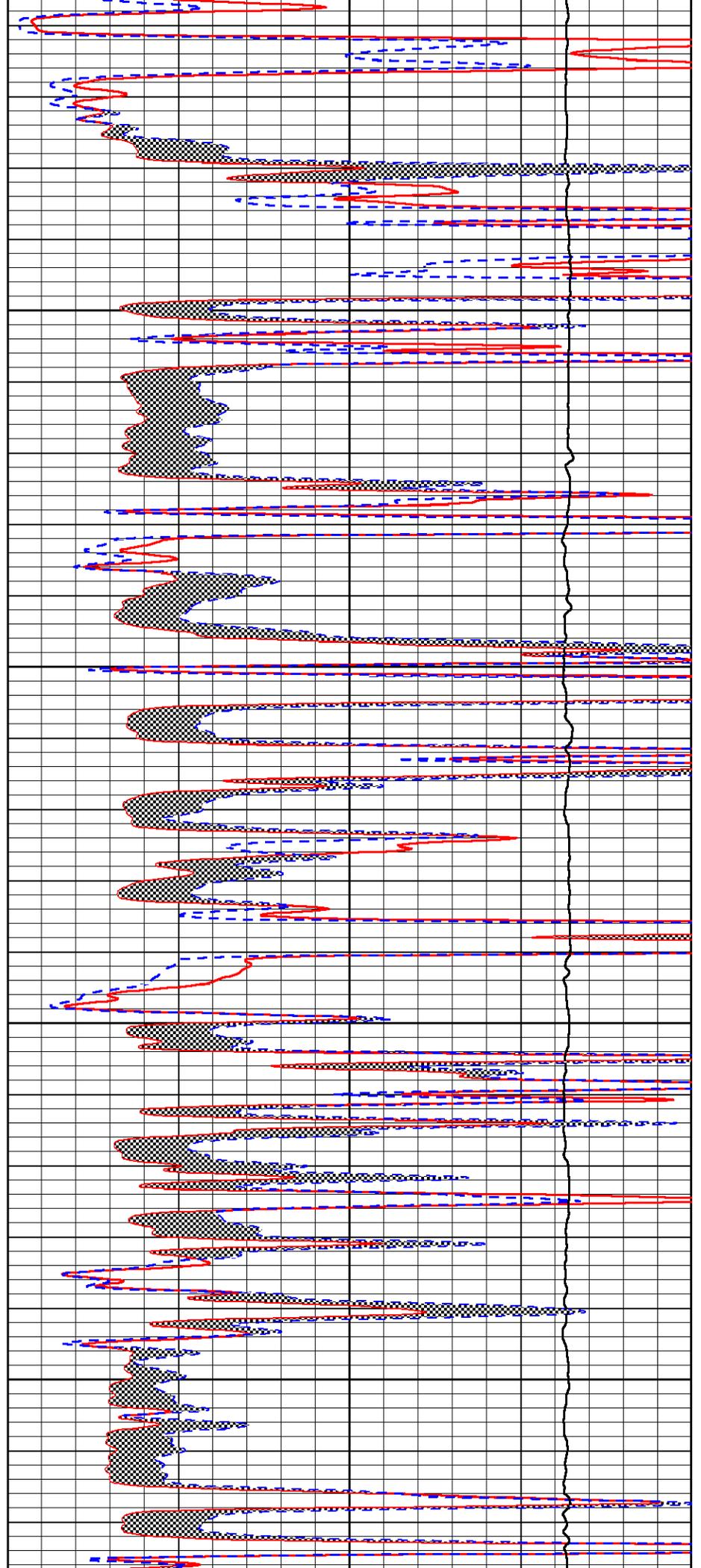


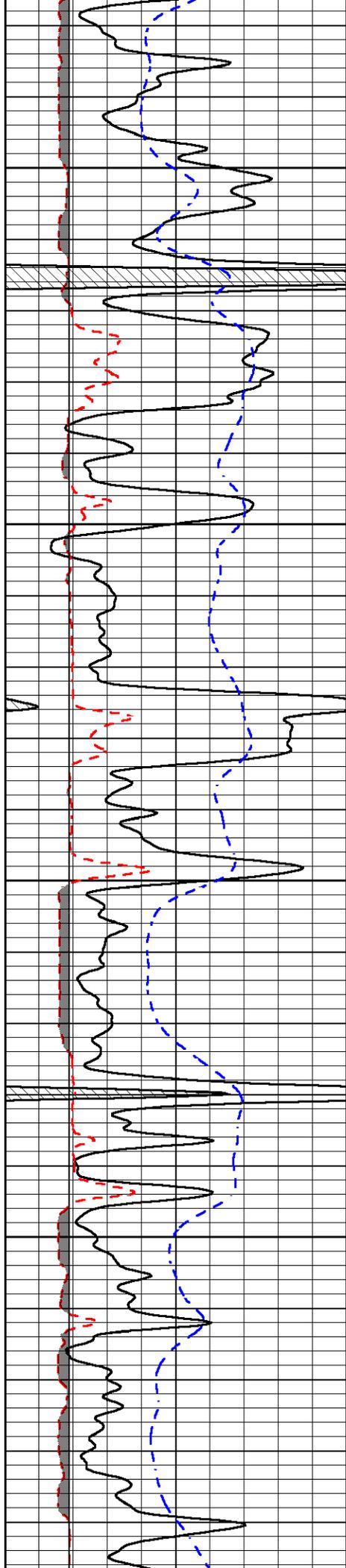
3550

3600

3650

3700



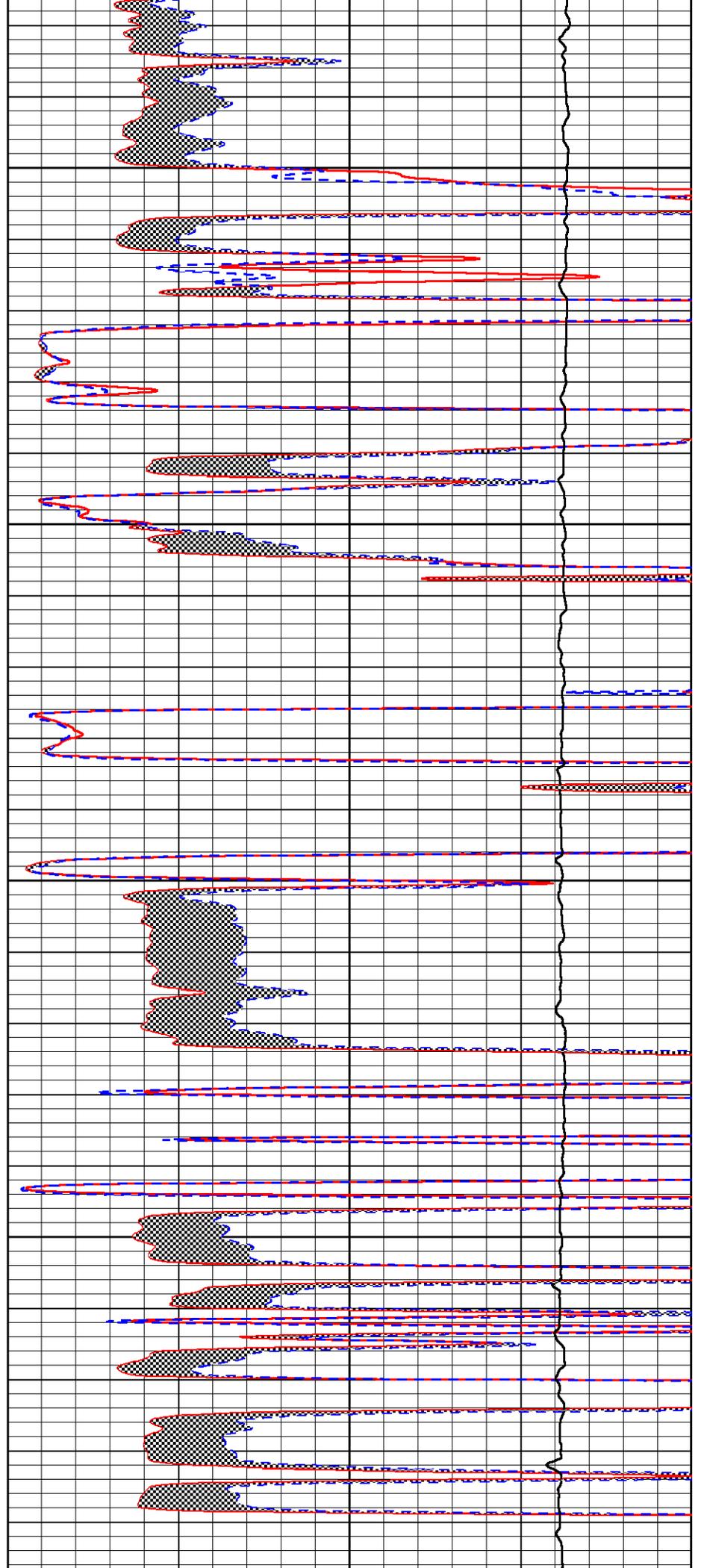


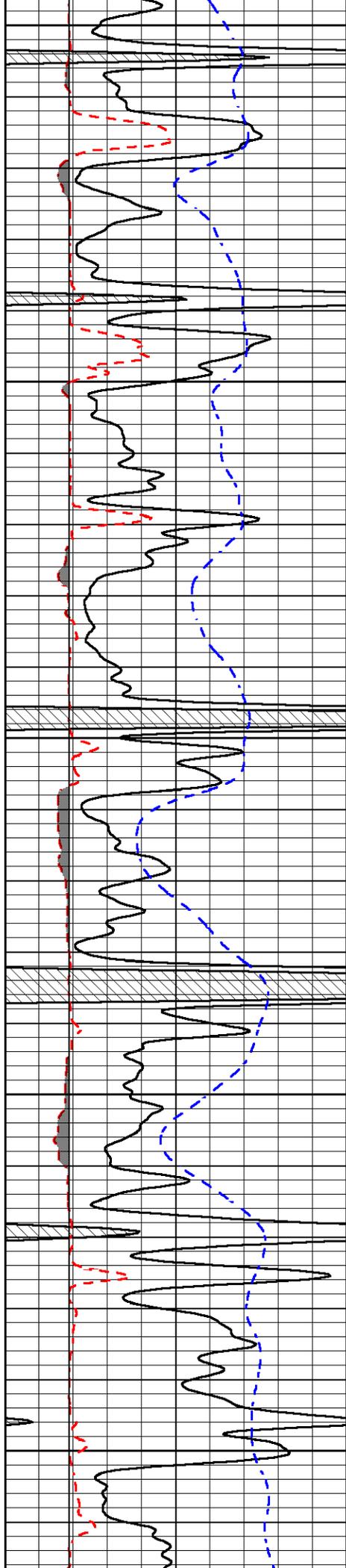
3750

3800

3850

3900





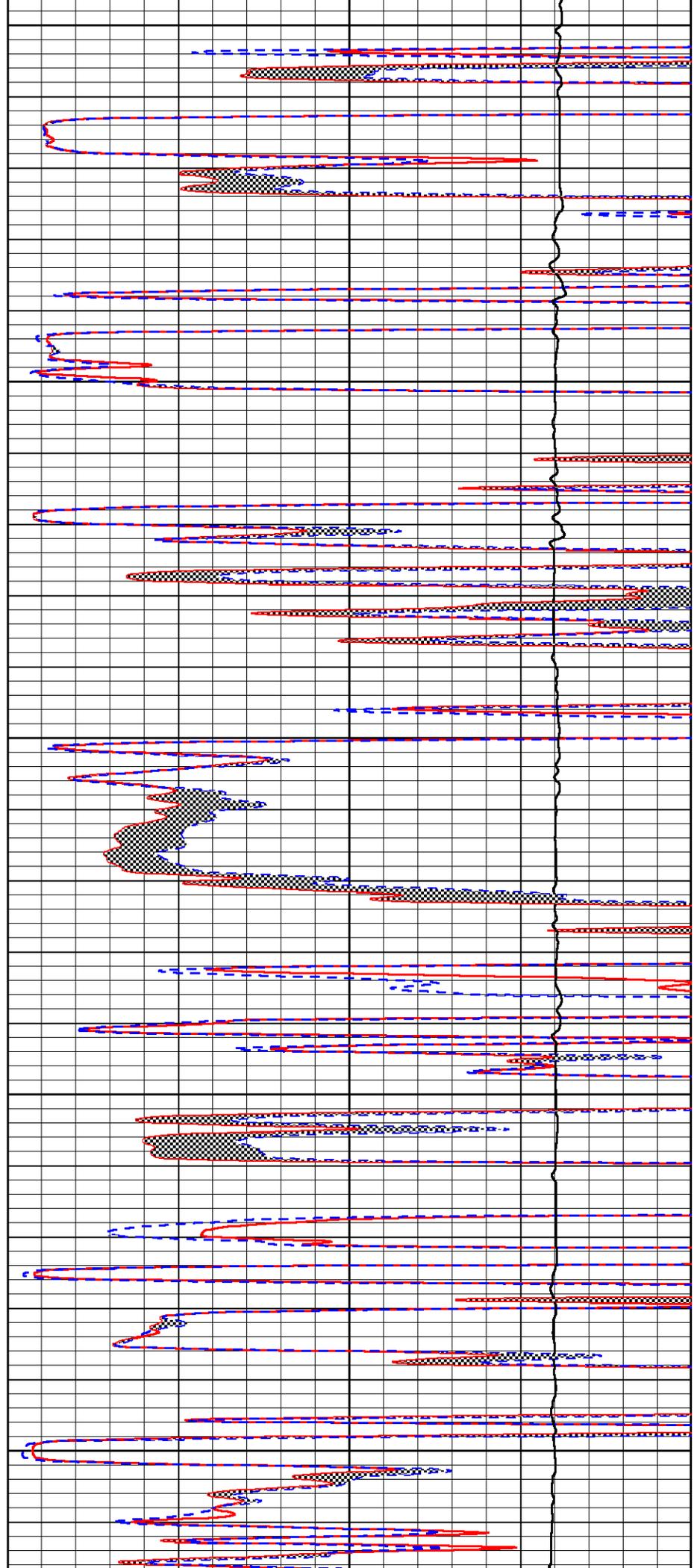
3950

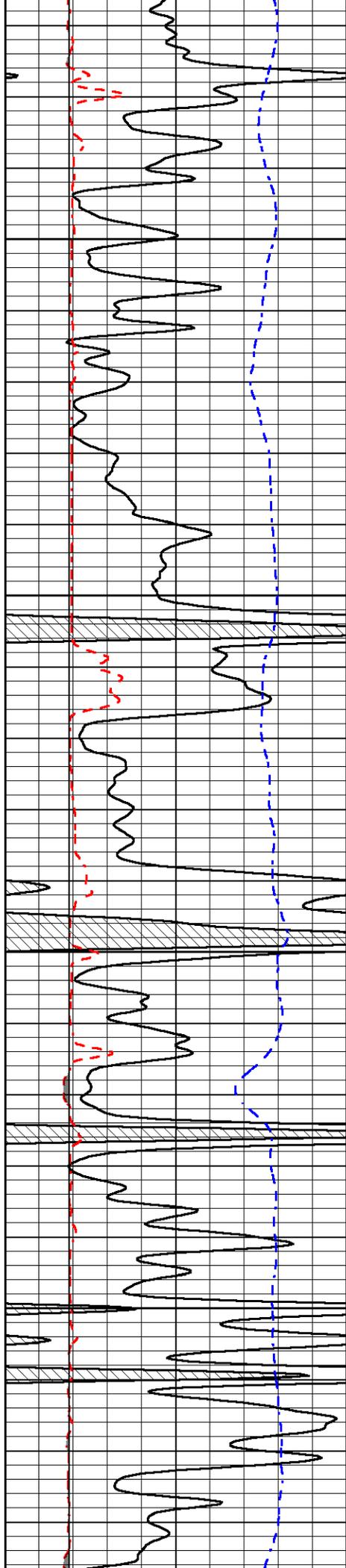
4000

4050

4100

4150



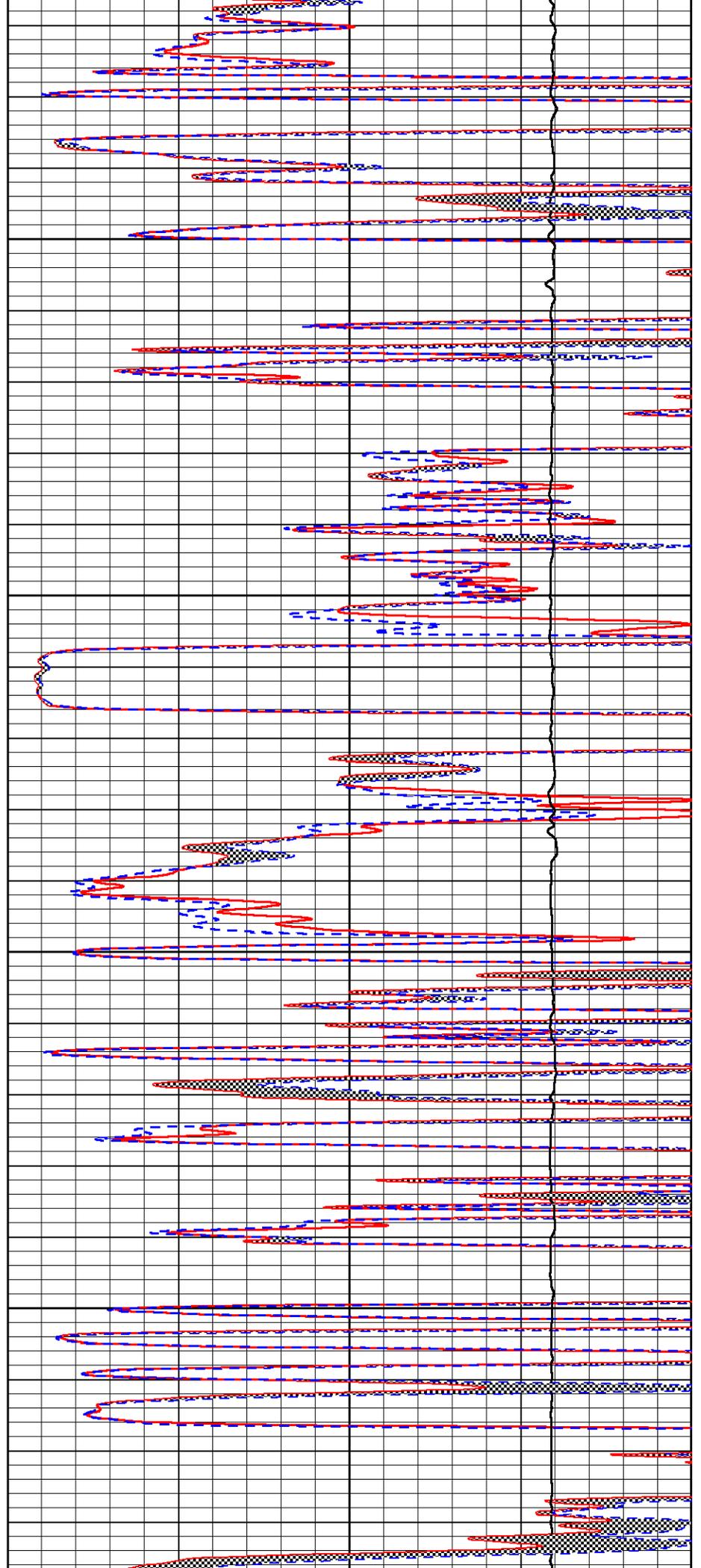


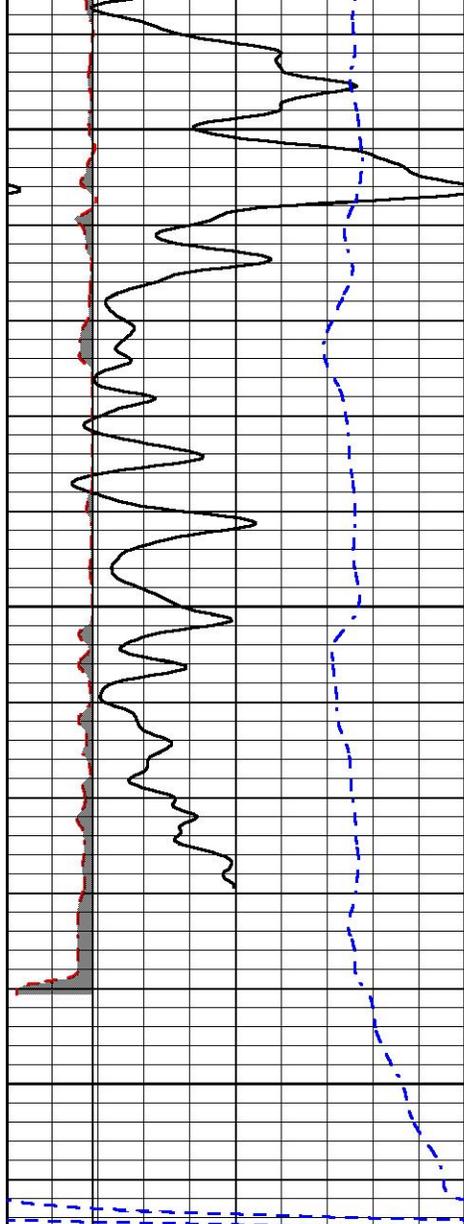
4200

4250

4300

4350



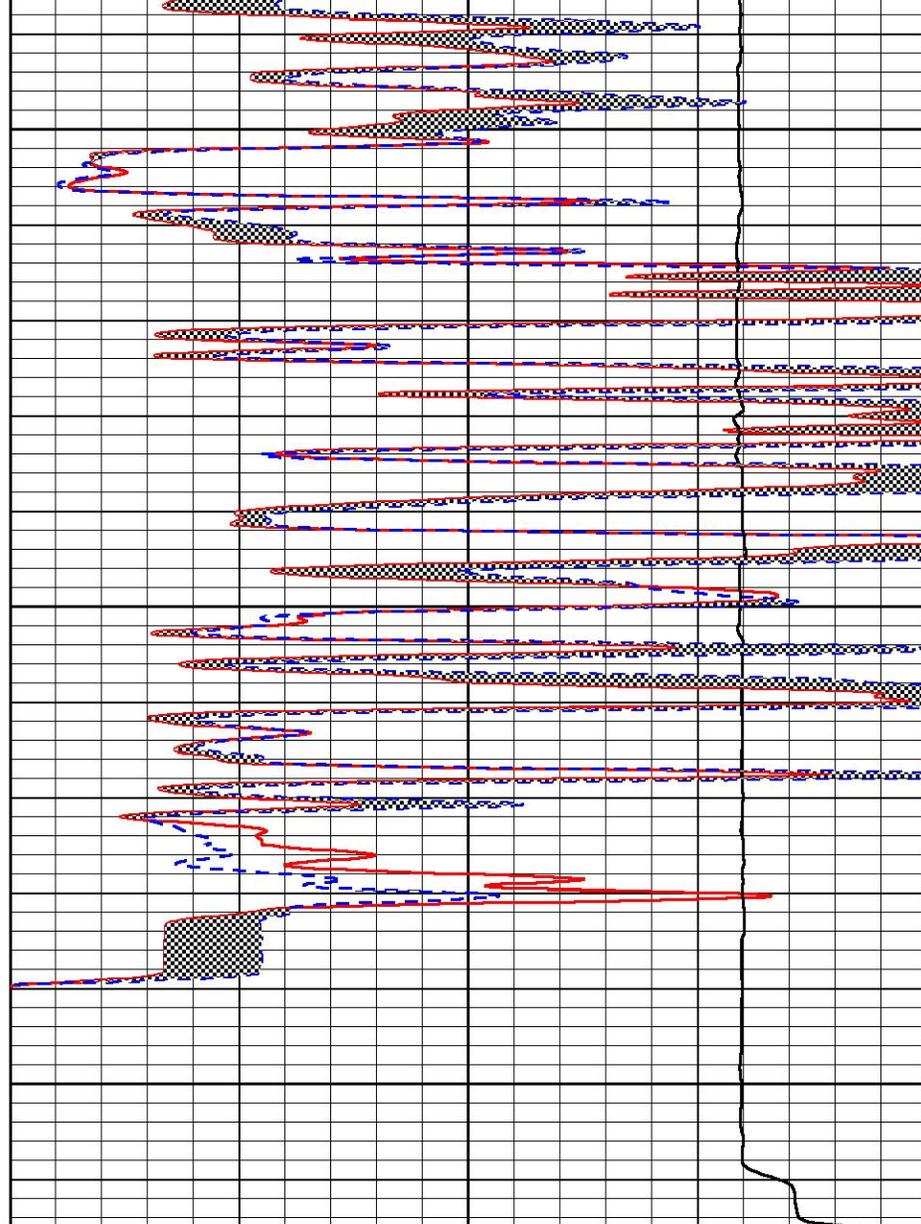


4400

4450

4500

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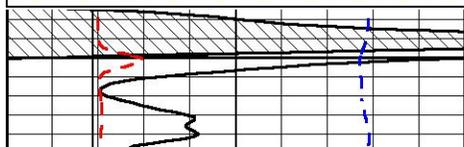
REPEAT SECTION

REPEAT PASS

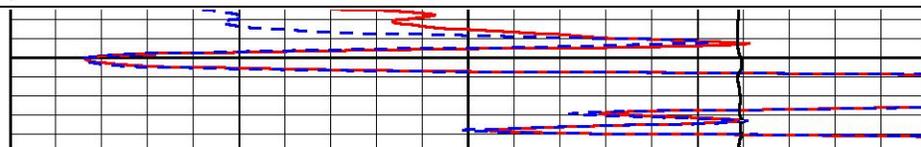
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 Presentation Format _micro
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 Charted by Depth in Feet scaled 1:240

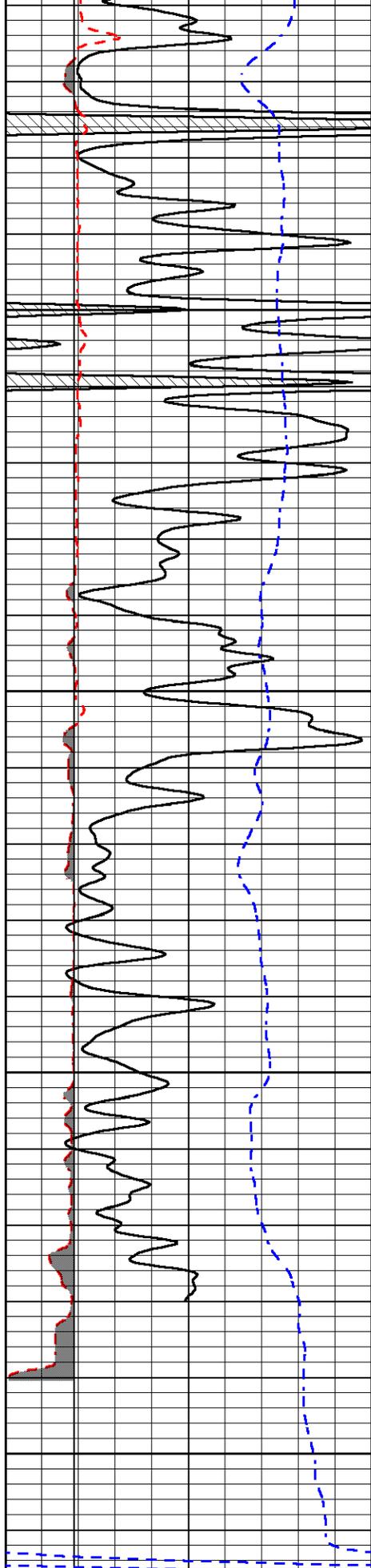
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4300





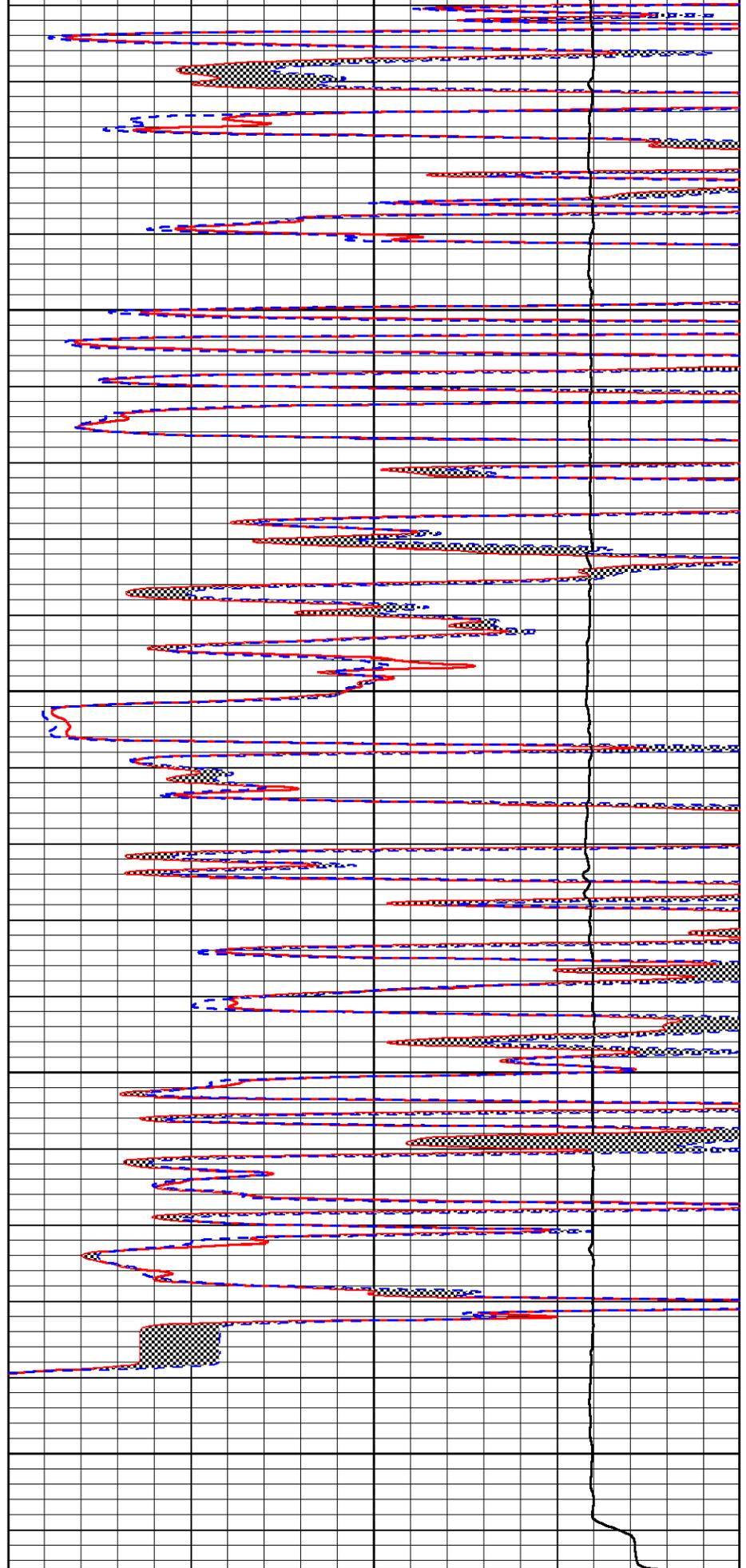
4350

4400

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