

## SONIC LOG

Company ARP OPERATING, LLC.

Well LOS PRIMOS #2

Field COUSINS

County THOMAS State KANSAS

Location: API #: 15-193-21115-0000

1650' FSL & 1320' FEL

S/2 - N/2 - SE

SEC 26 TWP 10S RGE 33W

GROUND LEVEL Elevation 3088

Log Measured From KELLY BUSHING 12' A.G.L.

Drilling Measured From KELLY BUSHING

Other Services  
CDL/CNL/PE  
DIL/MEL

Elevation

K.B. 3100  
D.F. 3098  
G.L. 3088

Date 2/13/23

Run Number TWO

Depth Driller 4747

Depth Logger 4744

Bottom Logged Interval 4736

Top Log Interval 200

Casing Driller 8 5/8" @ 261'

Casing Logger 262

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.4/59

pH / Fluid Loss 10.5/8.0

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.40 @ 66F

Rmf @ Meas. Temp 1.05 @ 66F

Rmc @ Meas. Temp 1.68 @ 66F

Source of Rmf / Rmc MEASURED

Rm @ BHT .751 @ 123F

Time Circulation Stopped 4 HOURS

Time Logger on Bottom 7:30 P.M.

Maximum Recorded Temperature 123F

Equipment Number 8916

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By SEAN DEENIHAN

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

### Comments

THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

DIRECTIONS:

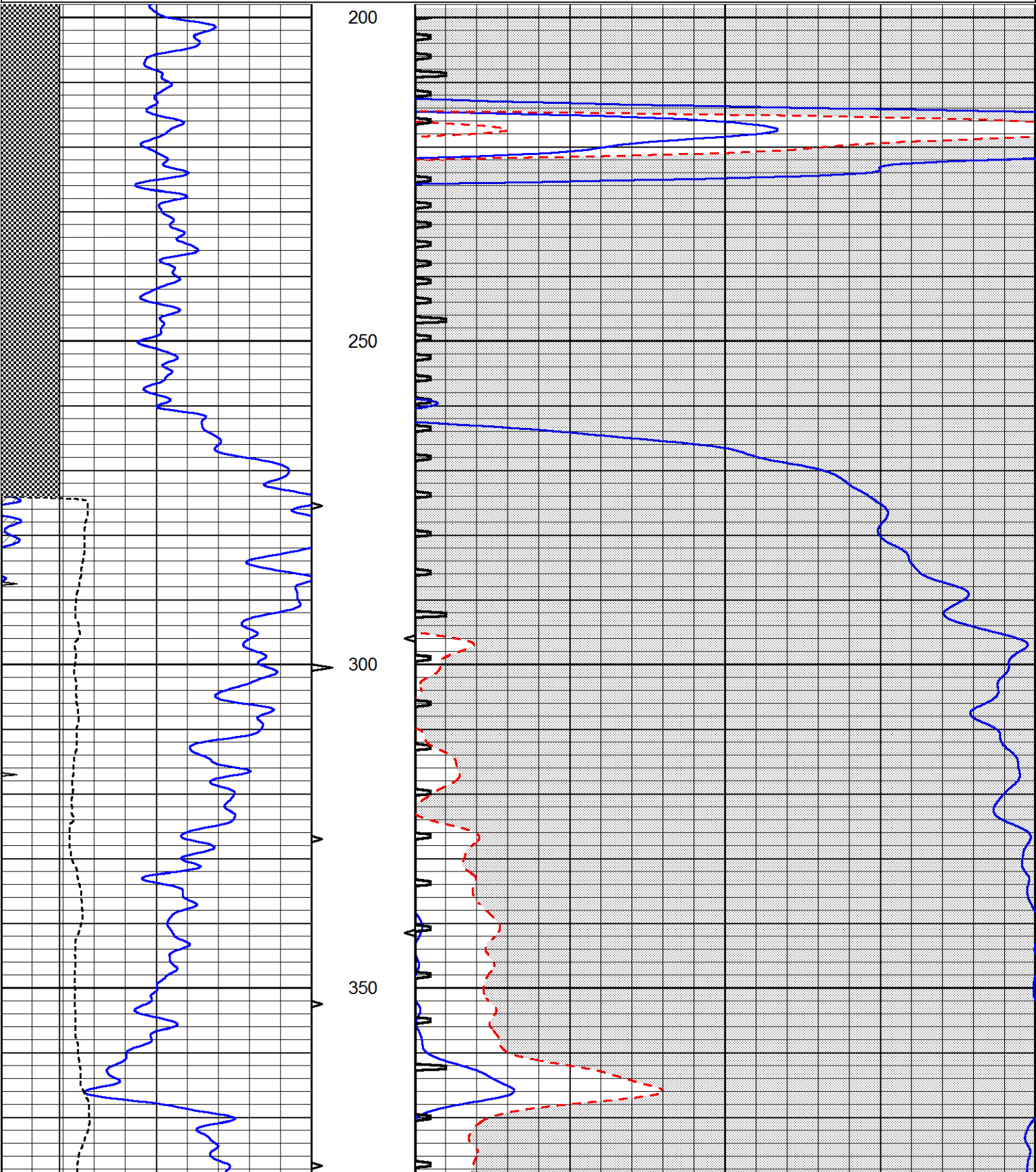
OAKLEY, KS. & SECOND I-70 EXIT, S. TO "RD. C", W. TO "RD. 23", 1S., E. INTO

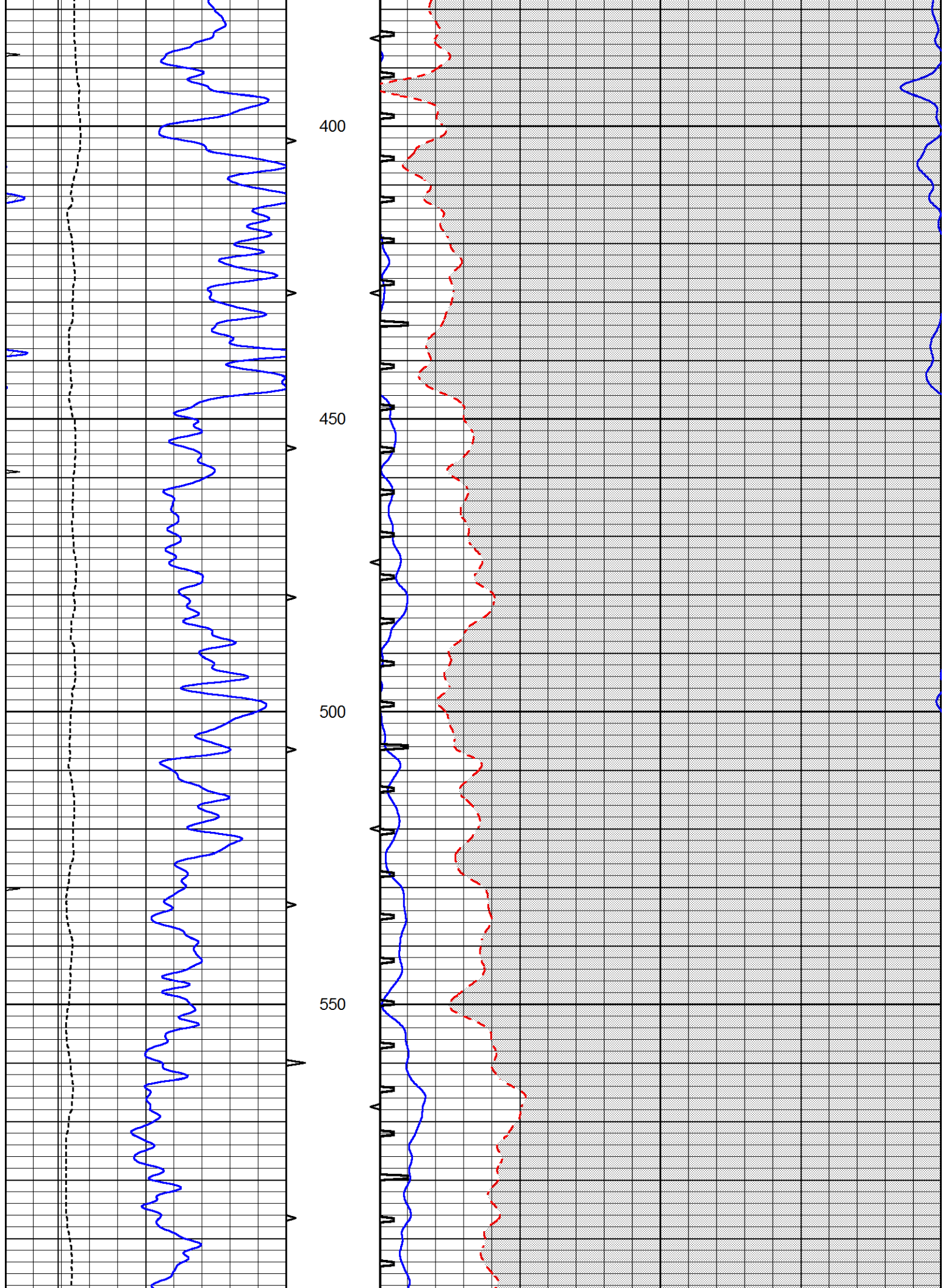


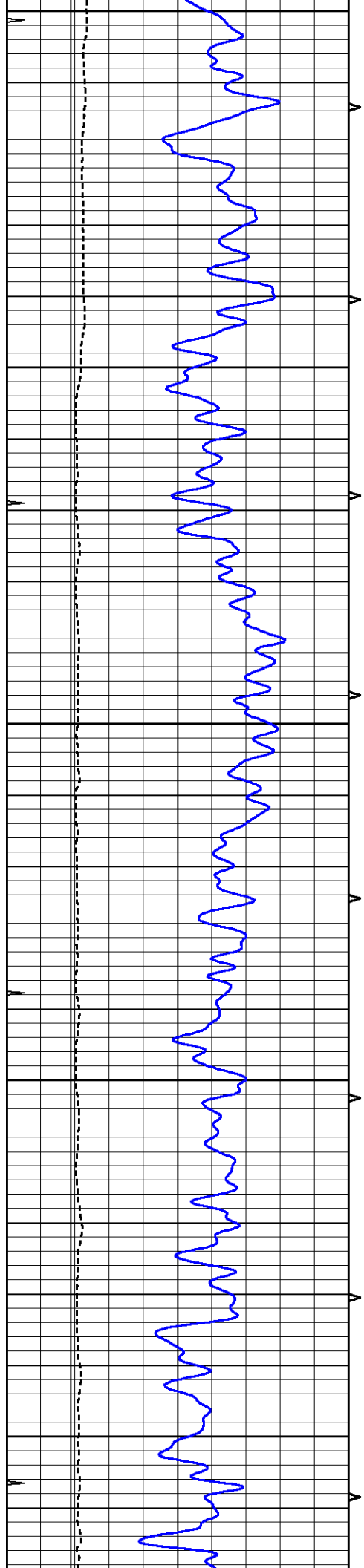
## MAIN SECTION

|                     |                            |
|---------------------|----------------------------|
| Database File       | 7509pe.db                  |
| Dataset Pathname    | pass6.2                    |
| Presentation Format | _slt                       |
| Dataset Creation    | Mon Feb 13 21:25:13 2023   |
| Charted by          | Depth in Feet scaled 1:240 |

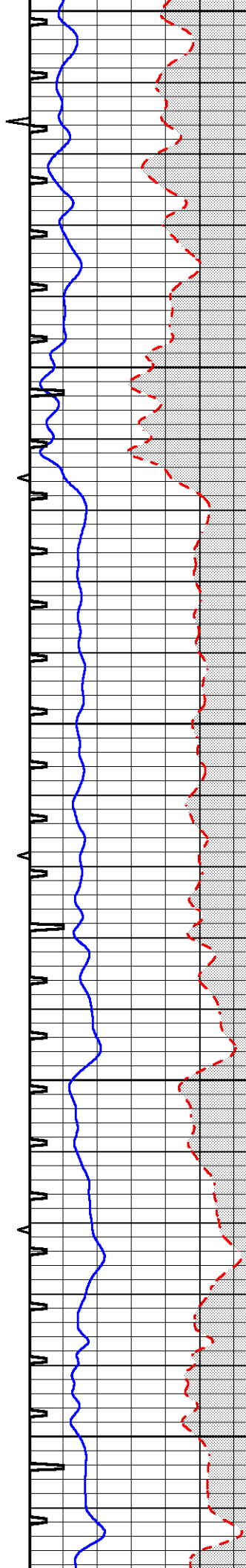
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|---|------------------|-----|------------|-----|----------------------|-----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV       | 140 | DELTA TIME (usec/ft) | 40  |
| 0 | MINMK            | 20  | 10 (ft3) 0 | 30  | SONIC POROSITY (pu)  | -10 |
| 6 | MELCAL (in)      | 16  | TBHV       | 0   | ITT (msec)           | 20  |
|   |                  |     | 0 (ft3) 10 |     |                      |     |

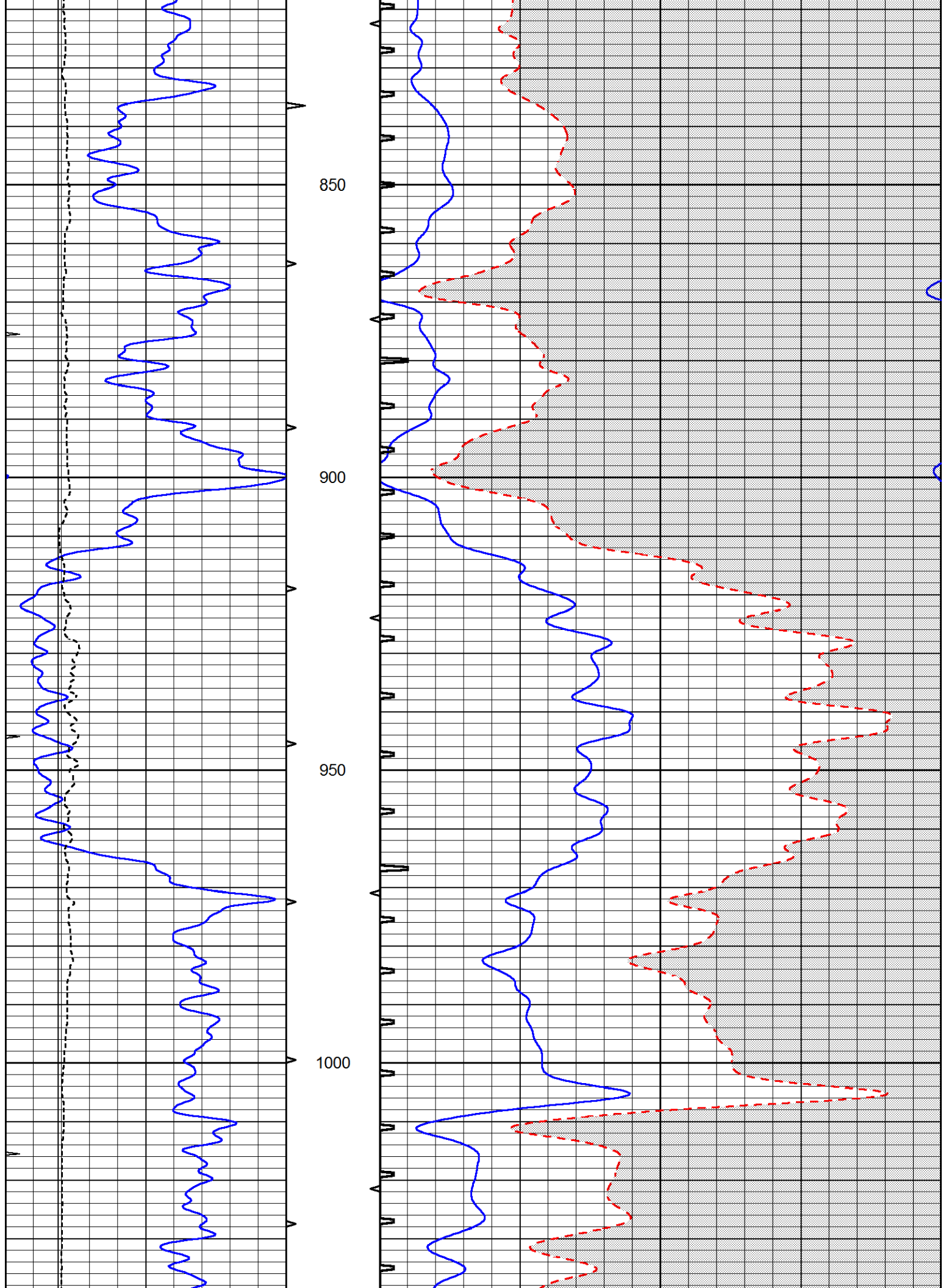


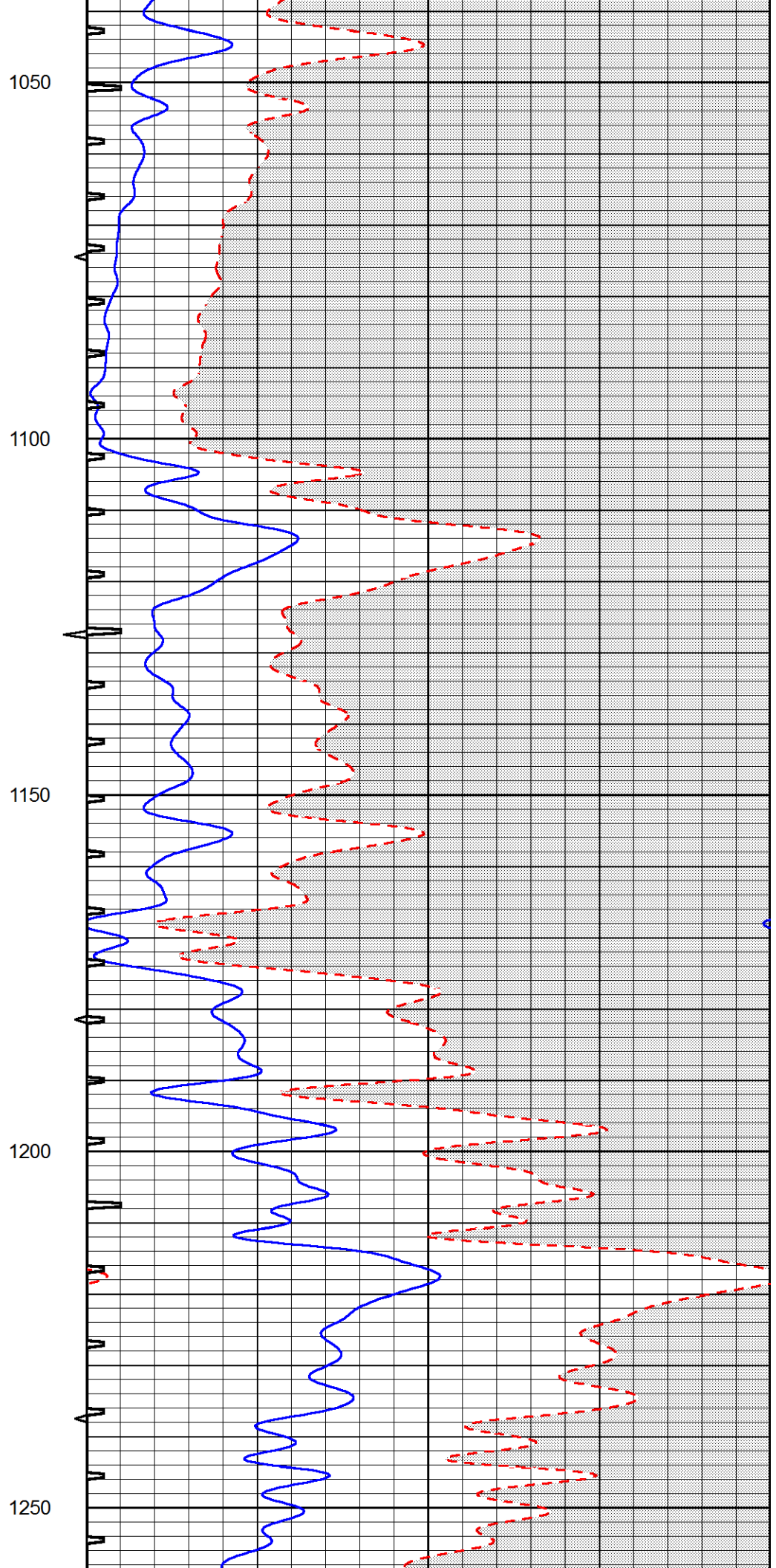
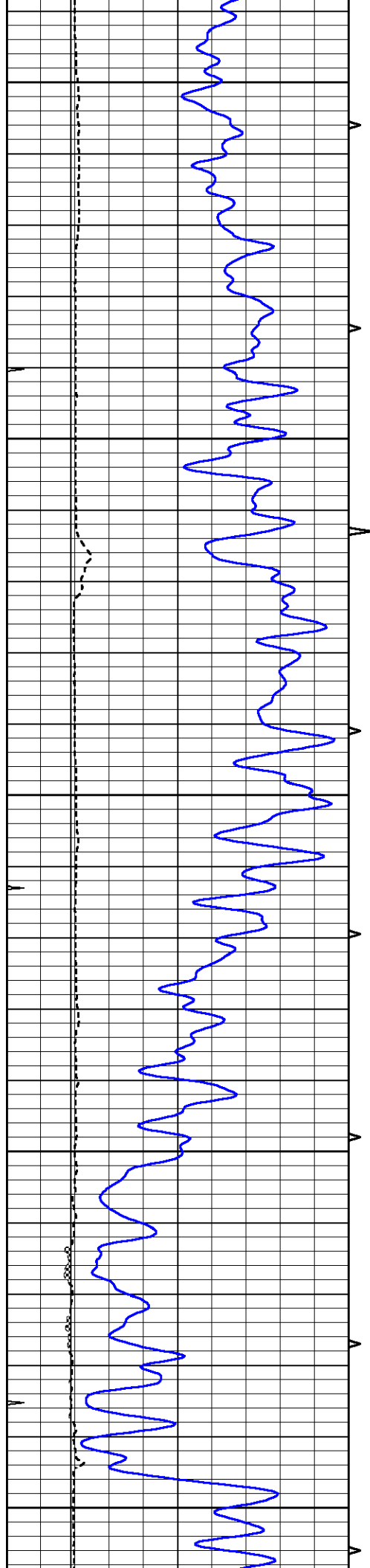


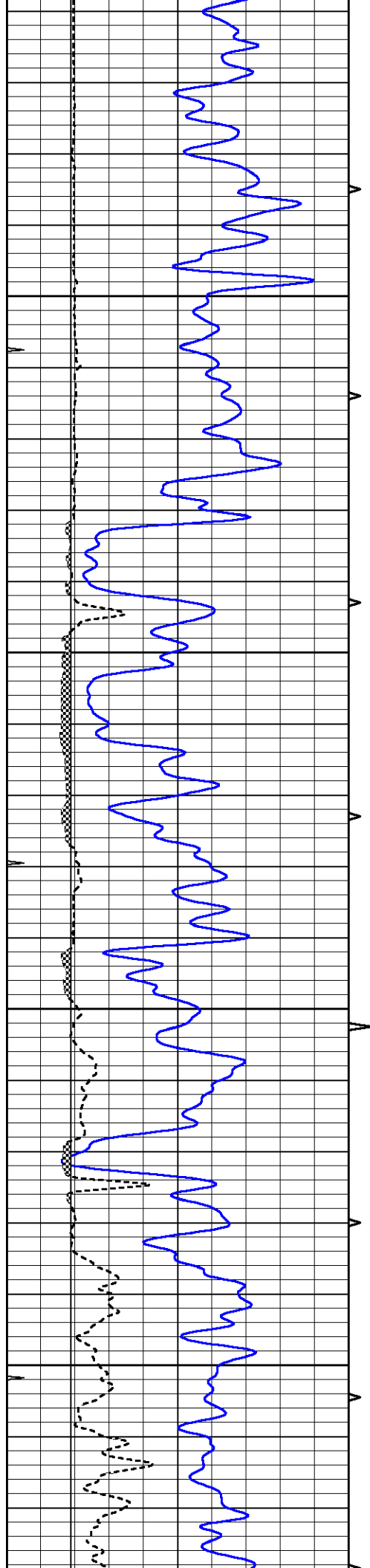


600  
650  
700  
750  
800







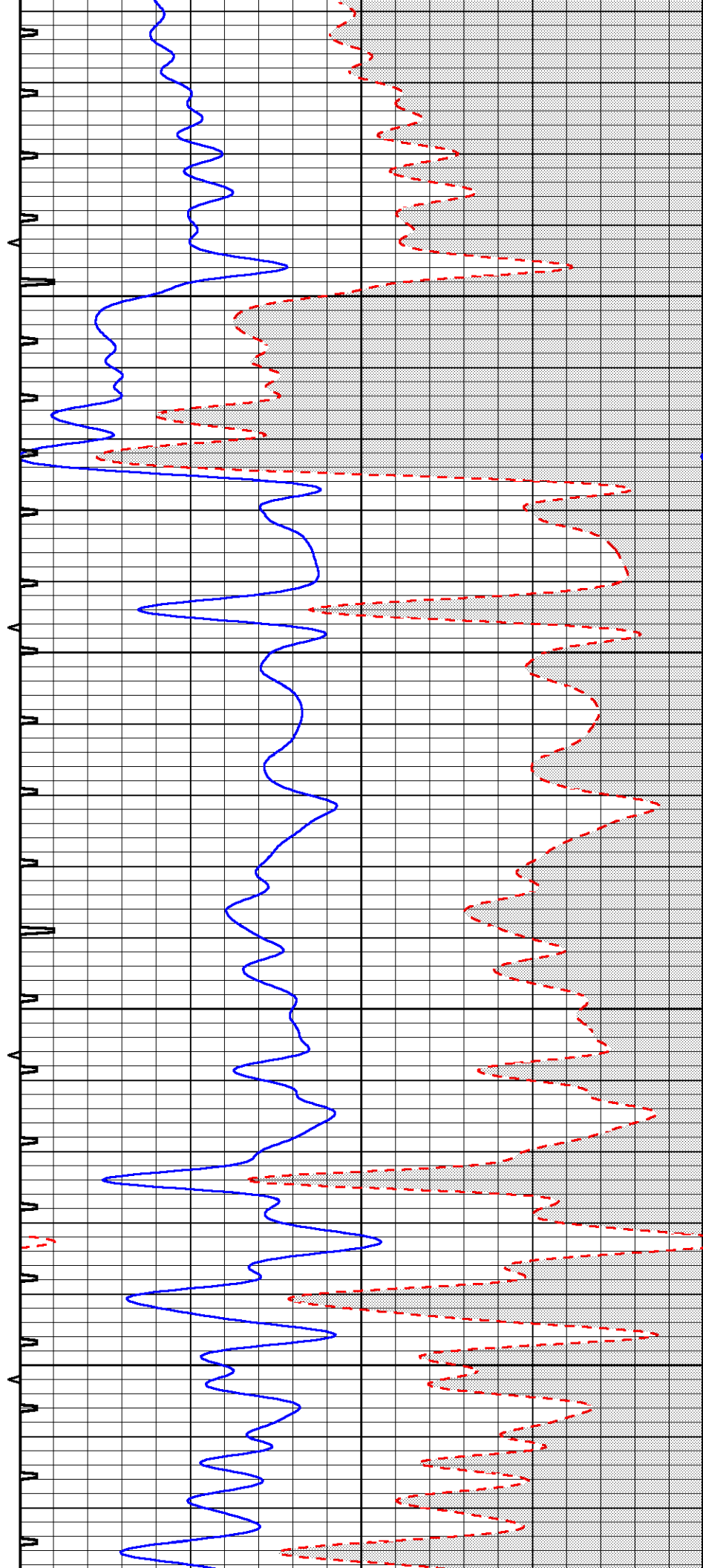


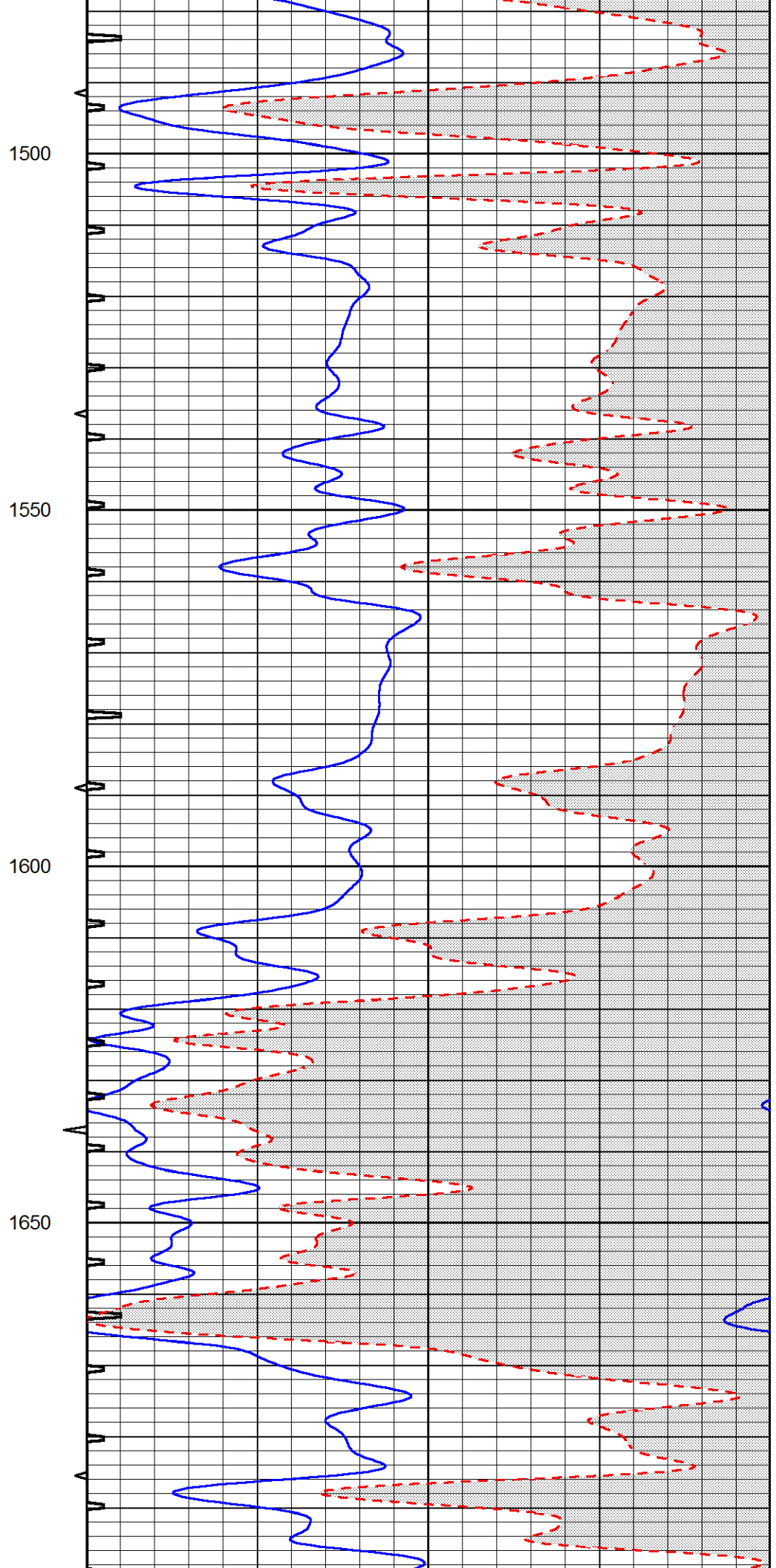
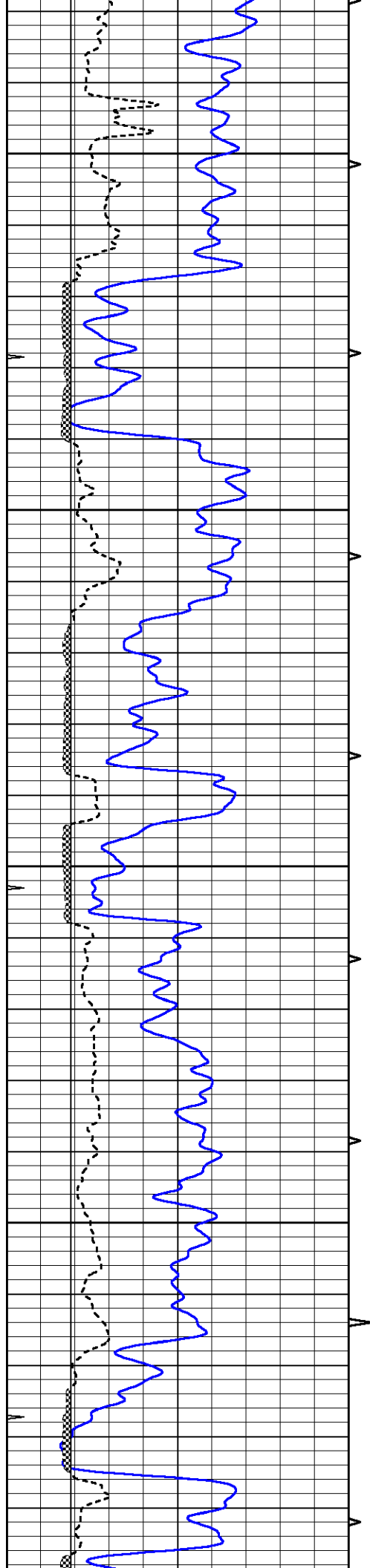
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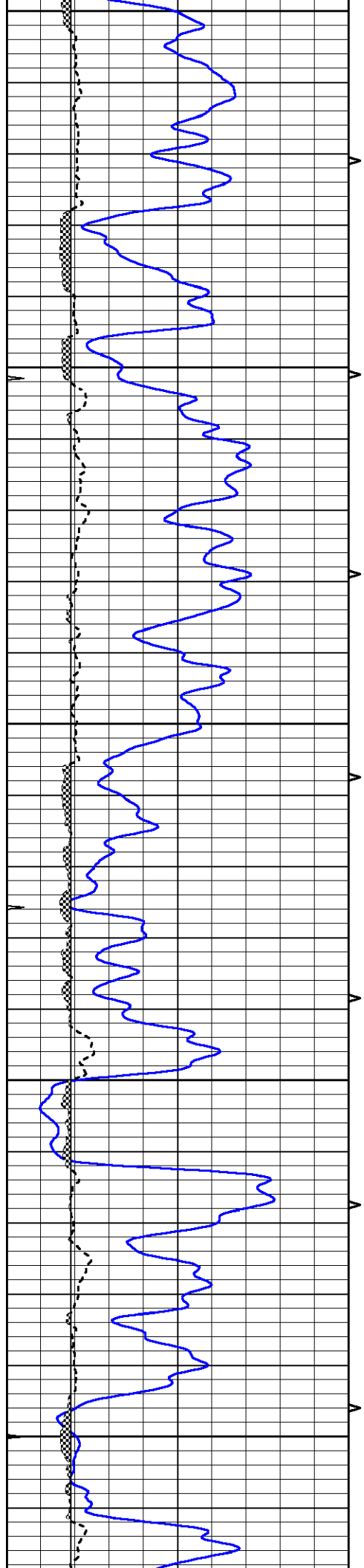
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1400

1450







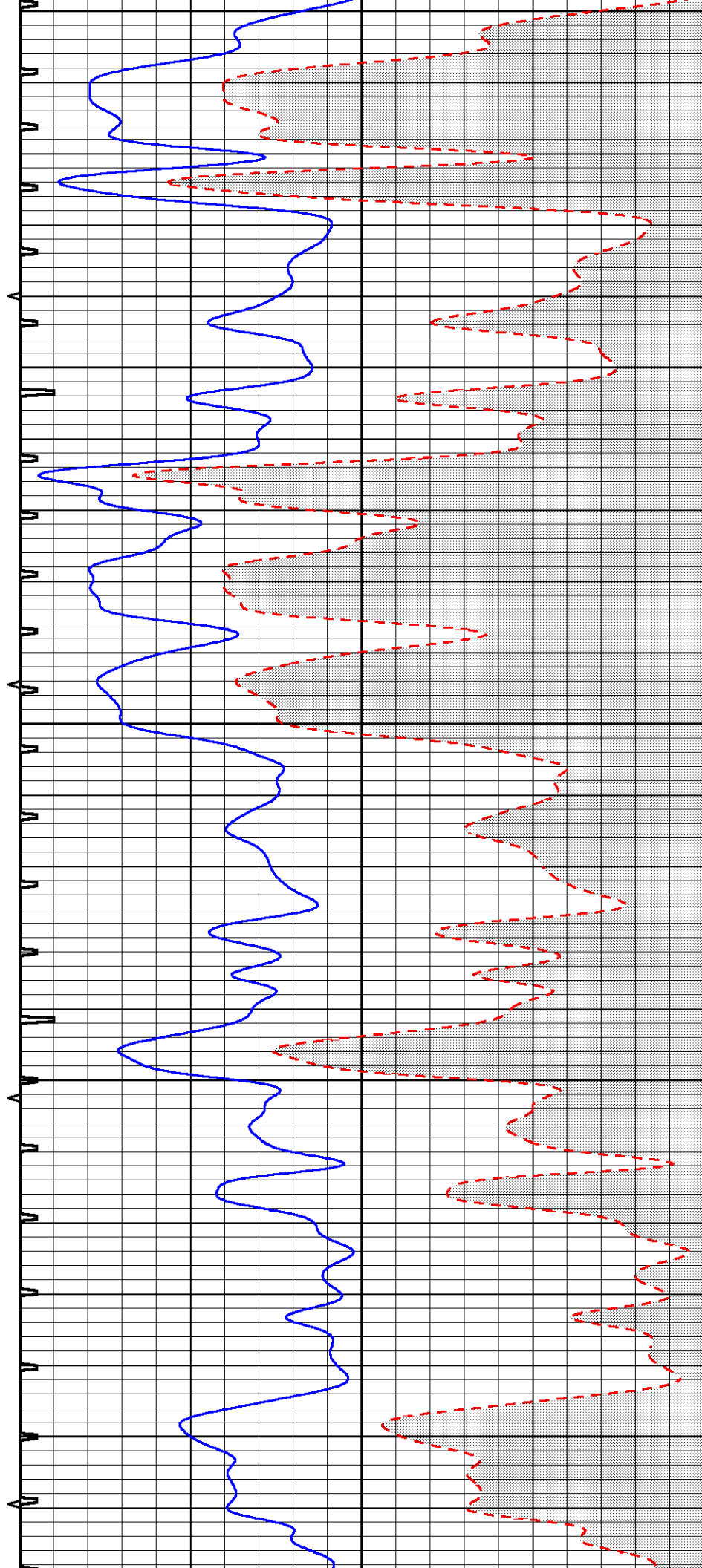
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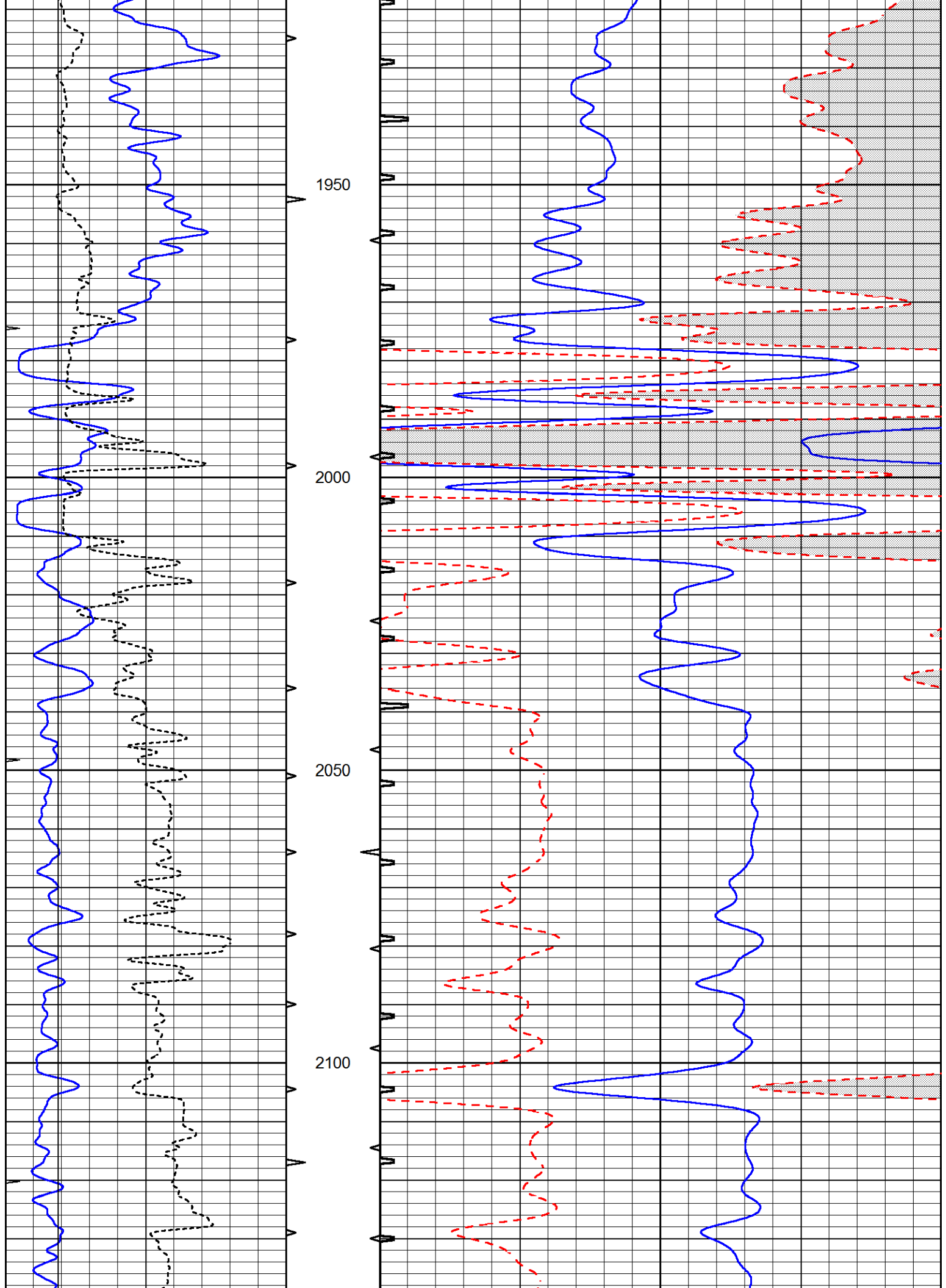
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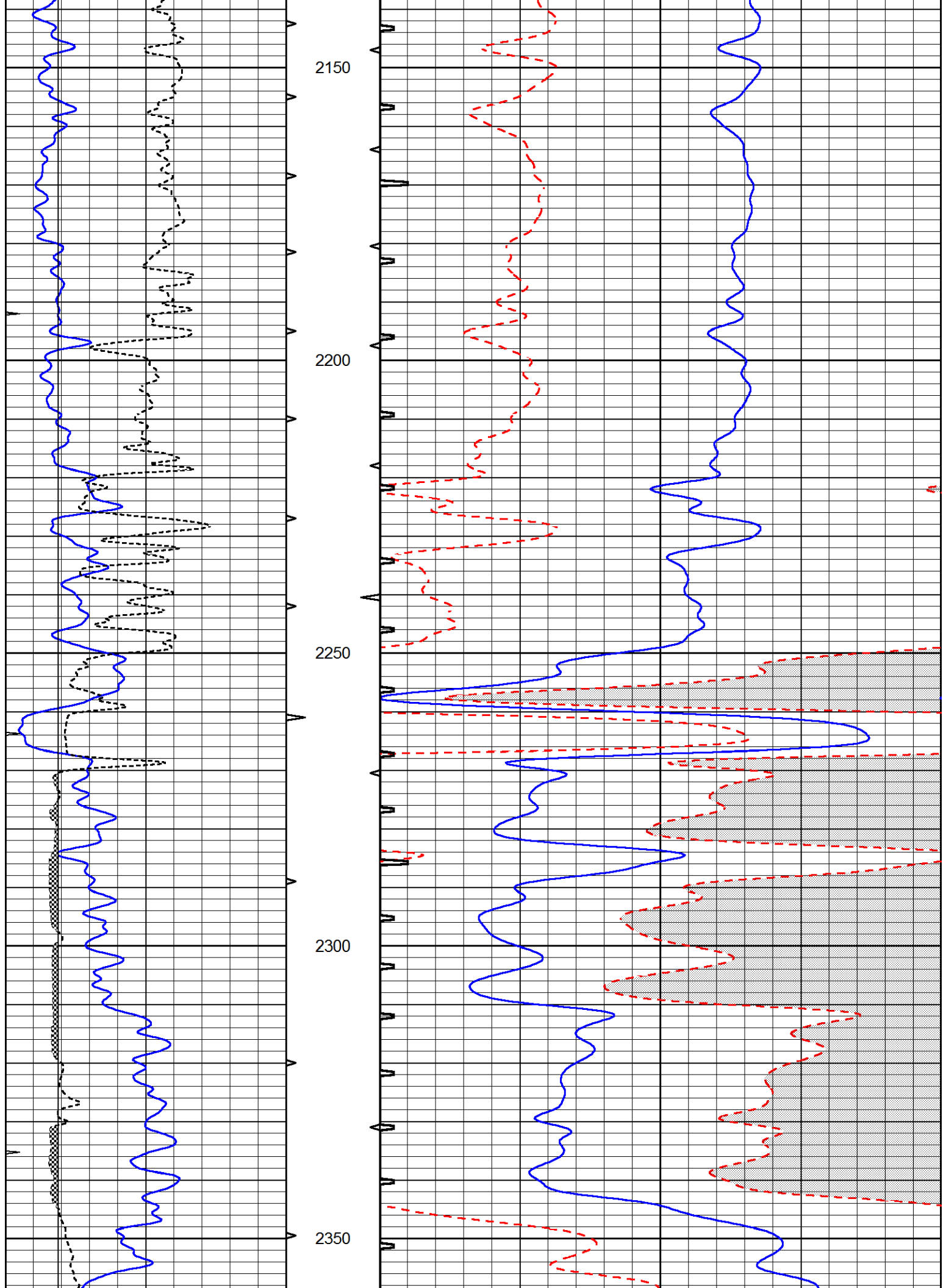
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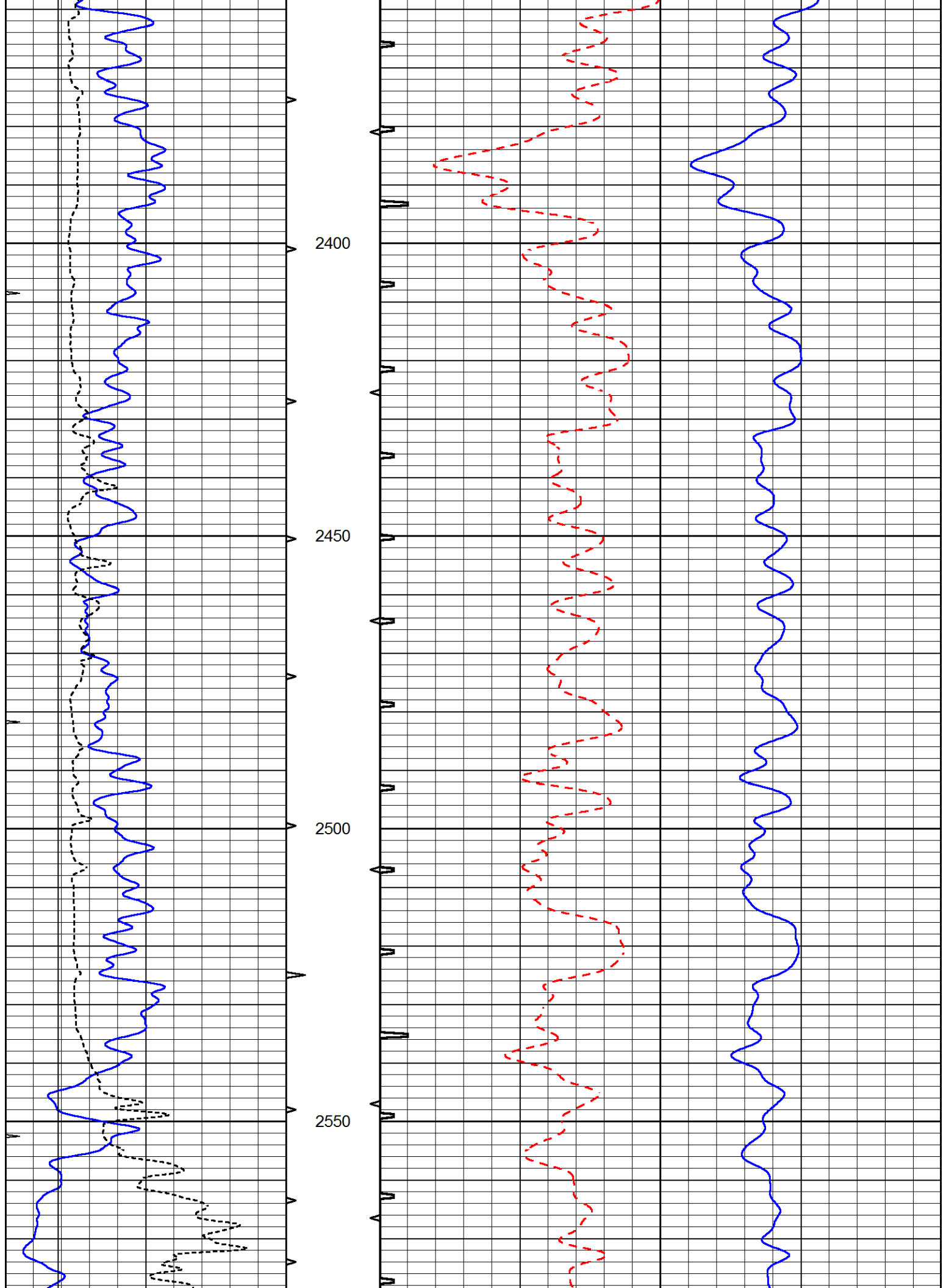
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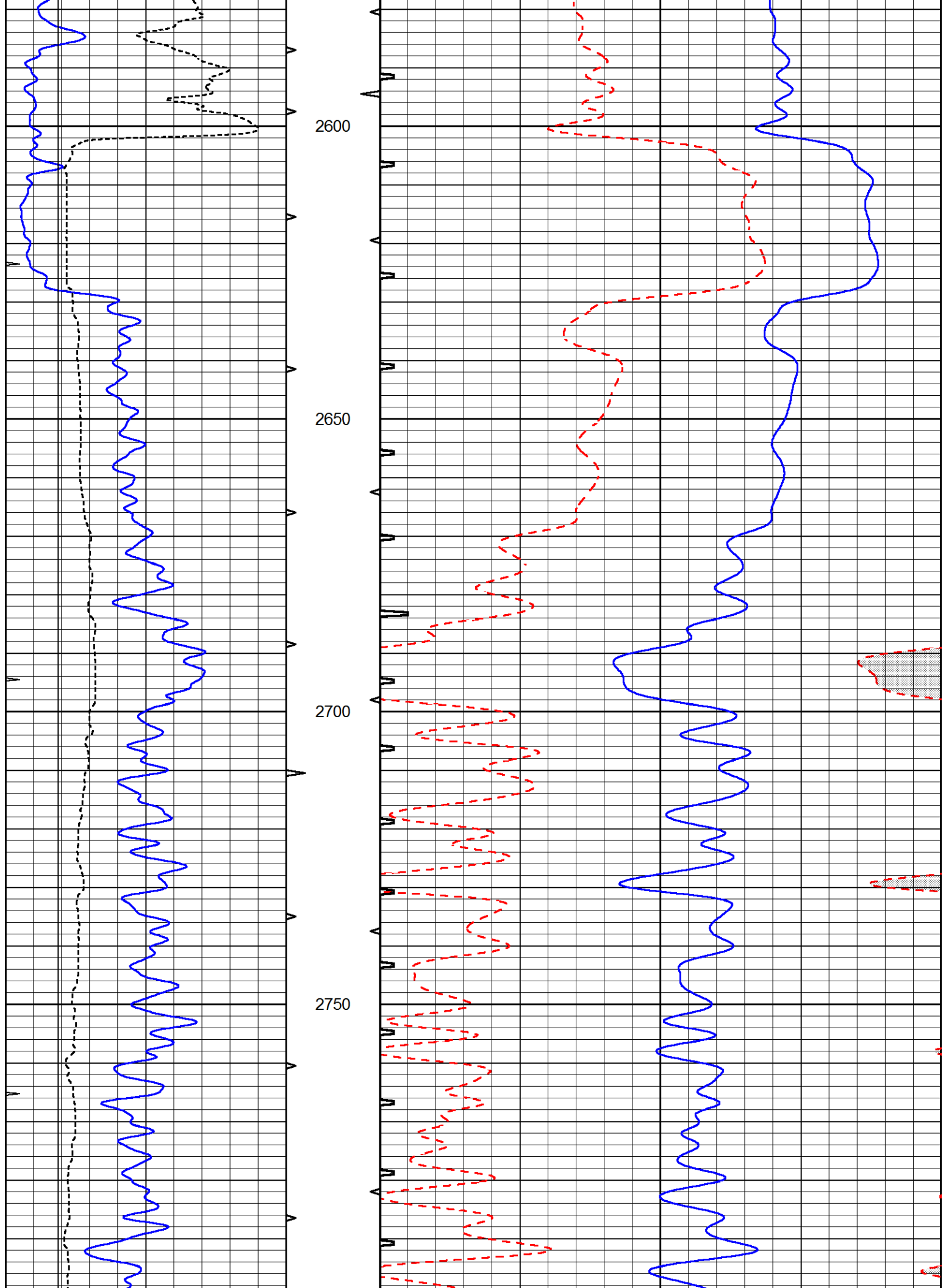
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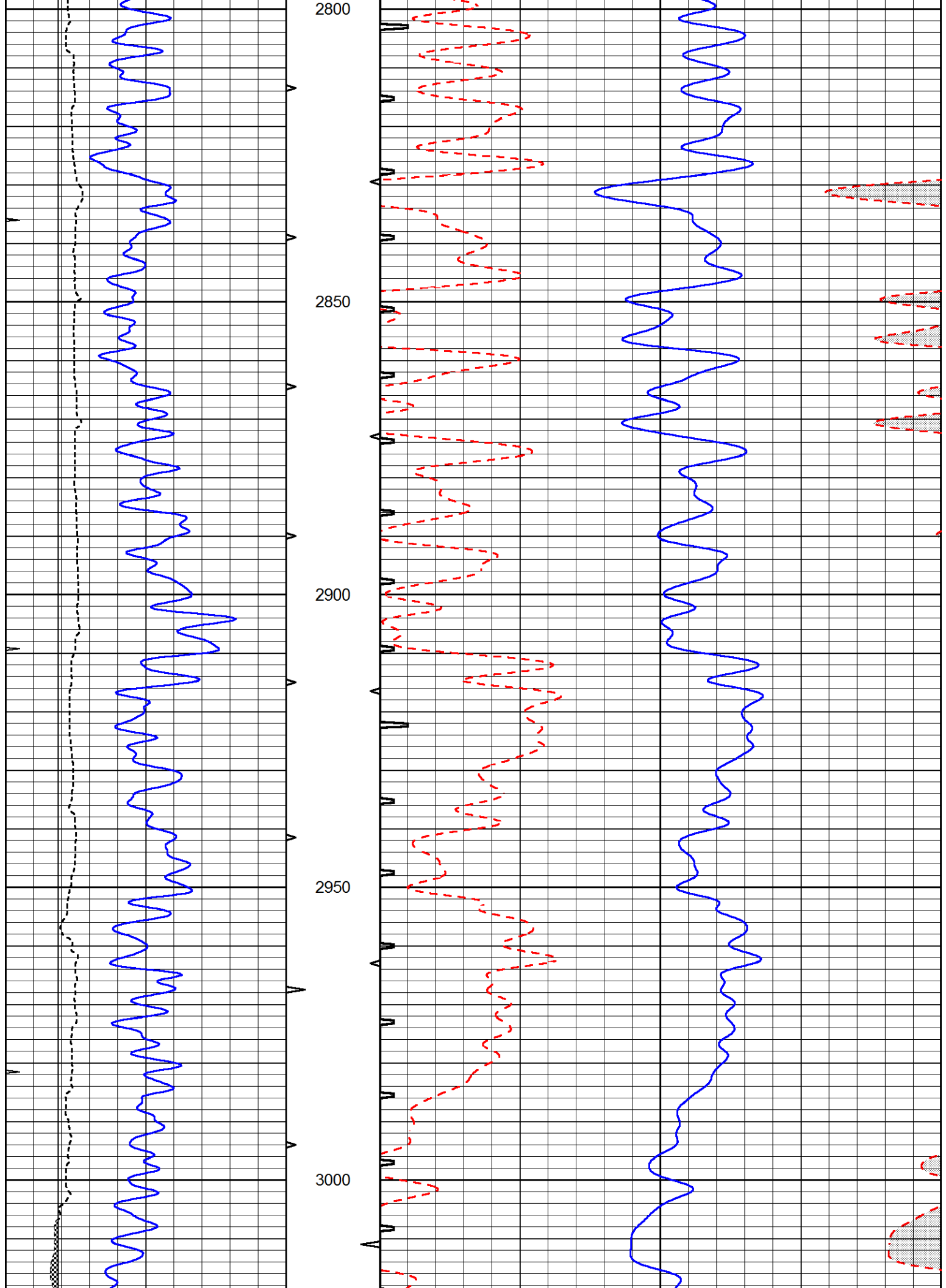


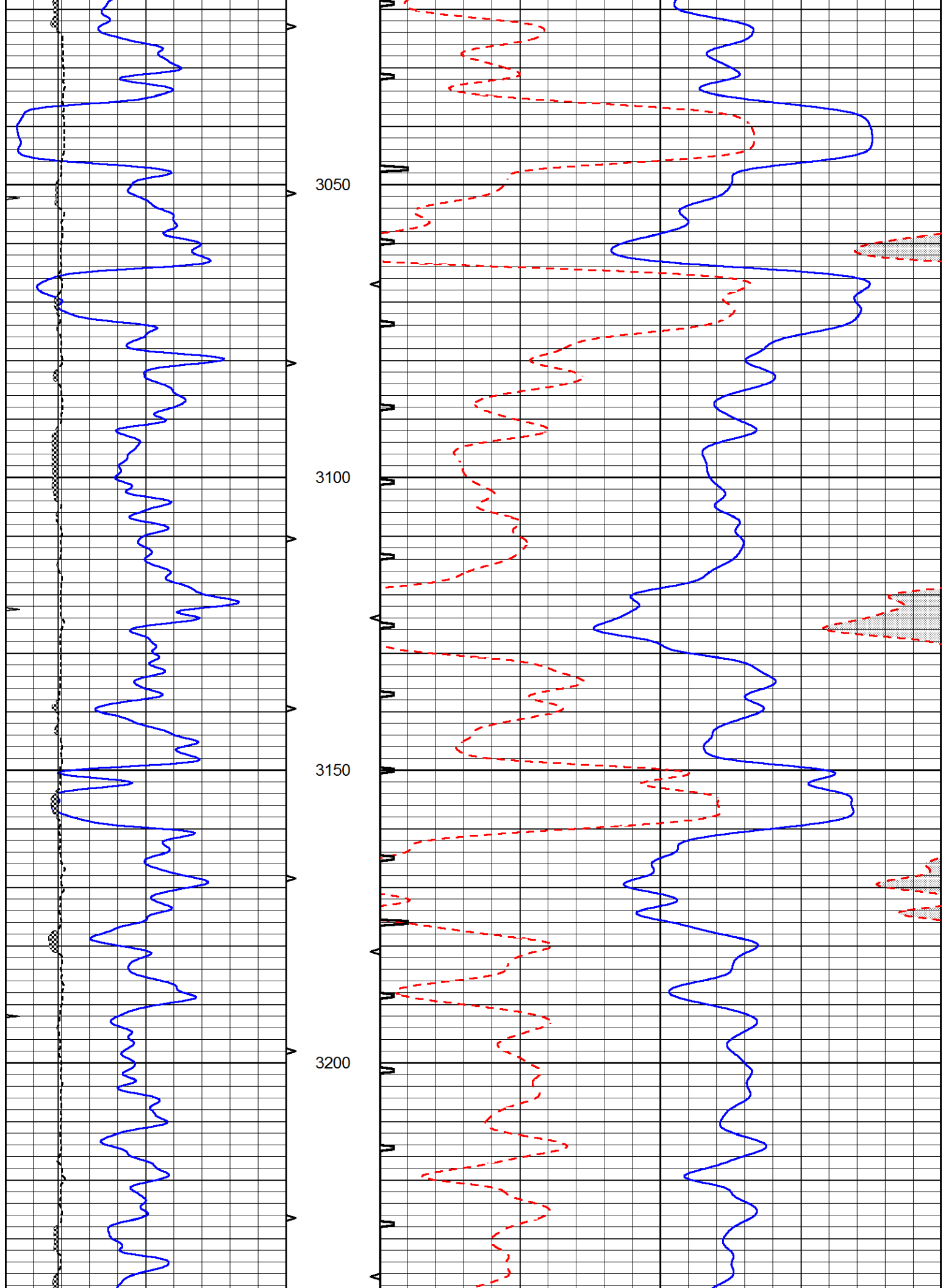


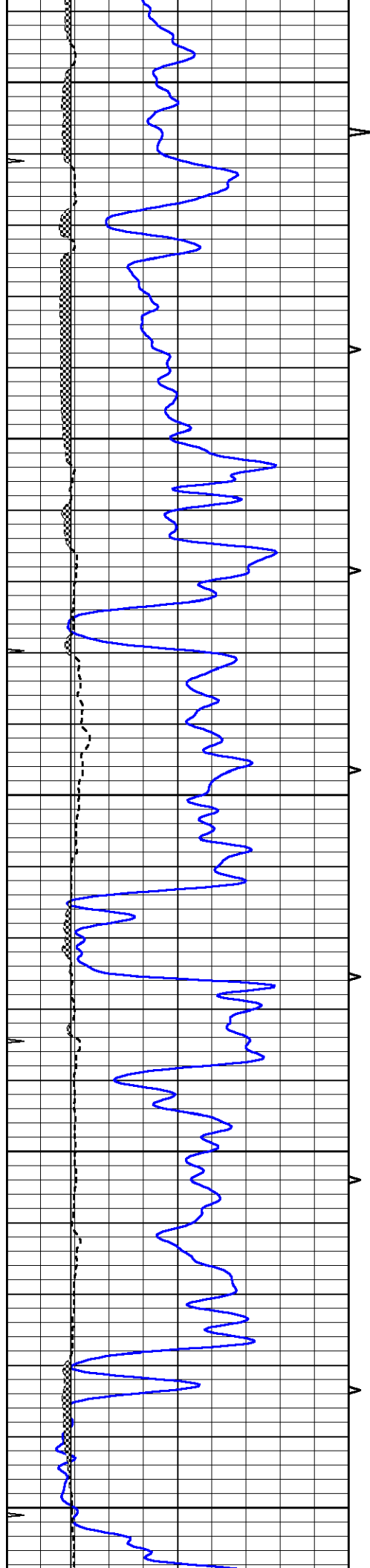












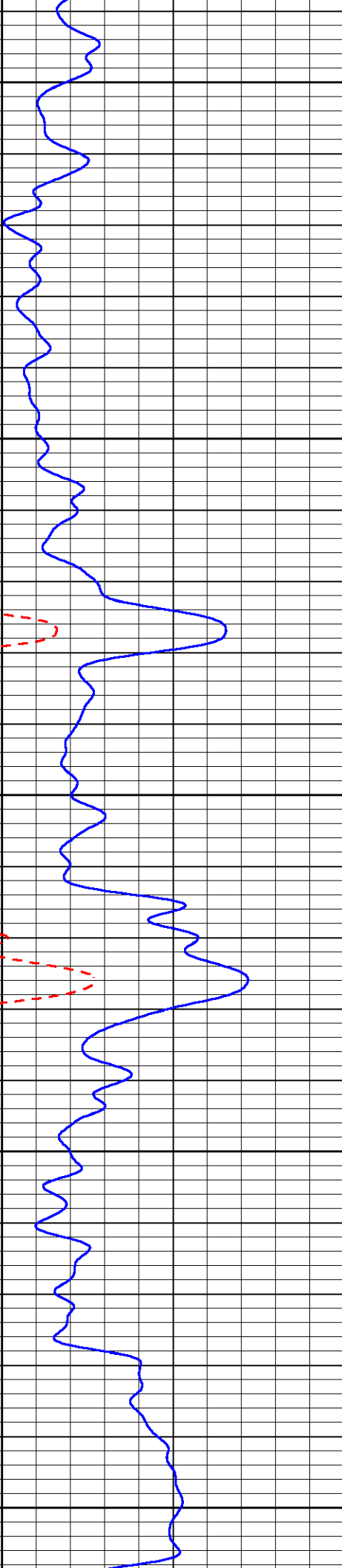
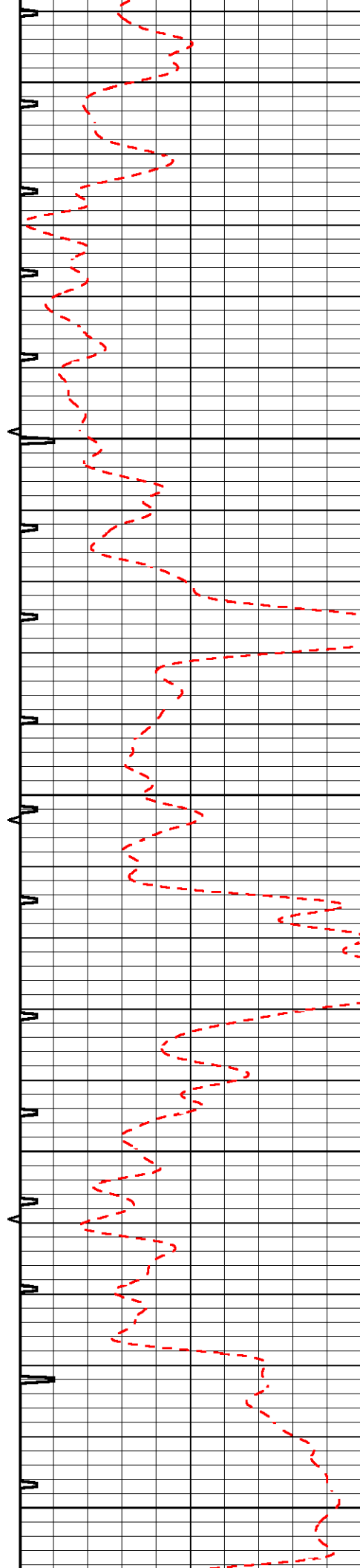
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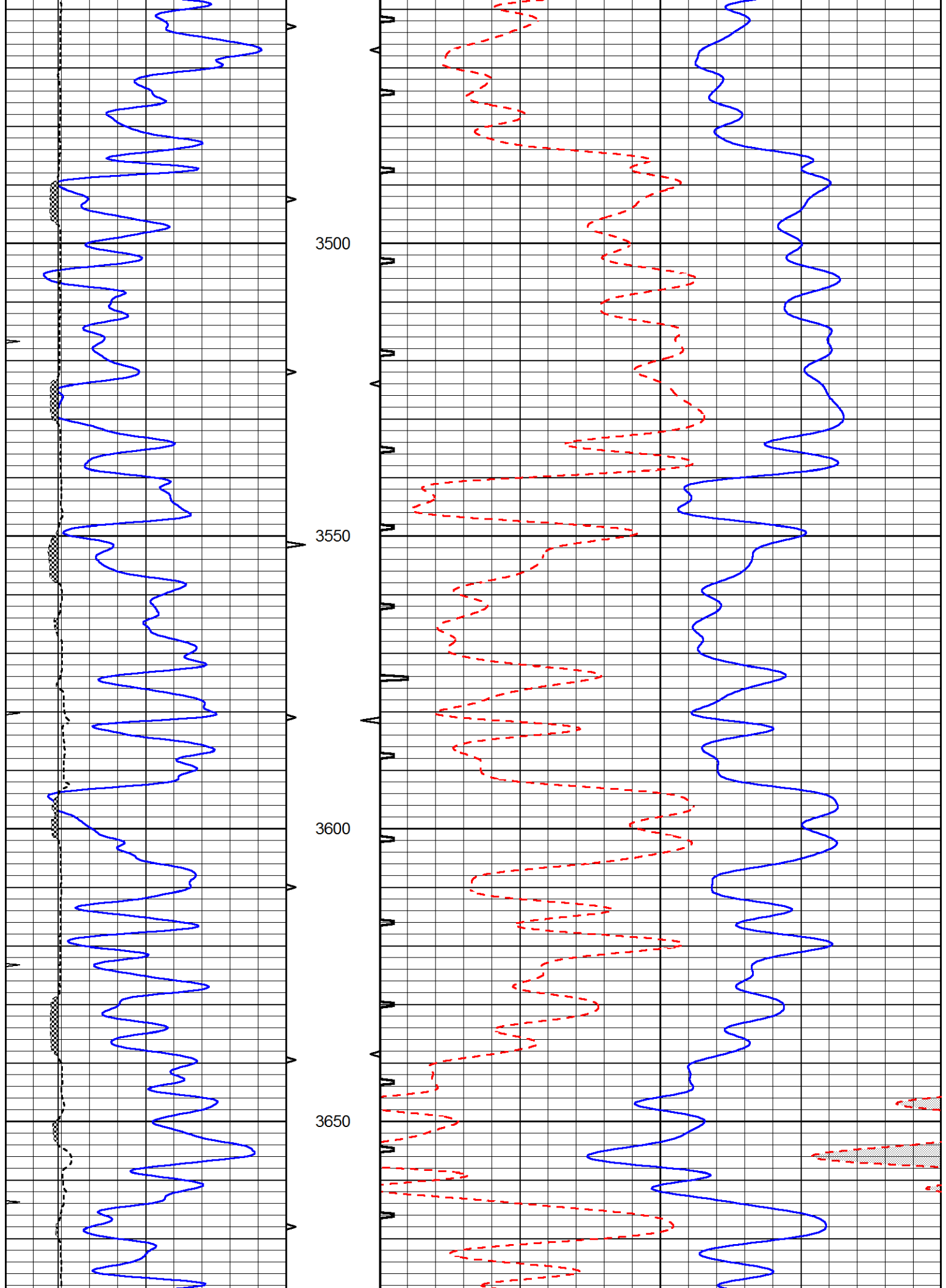
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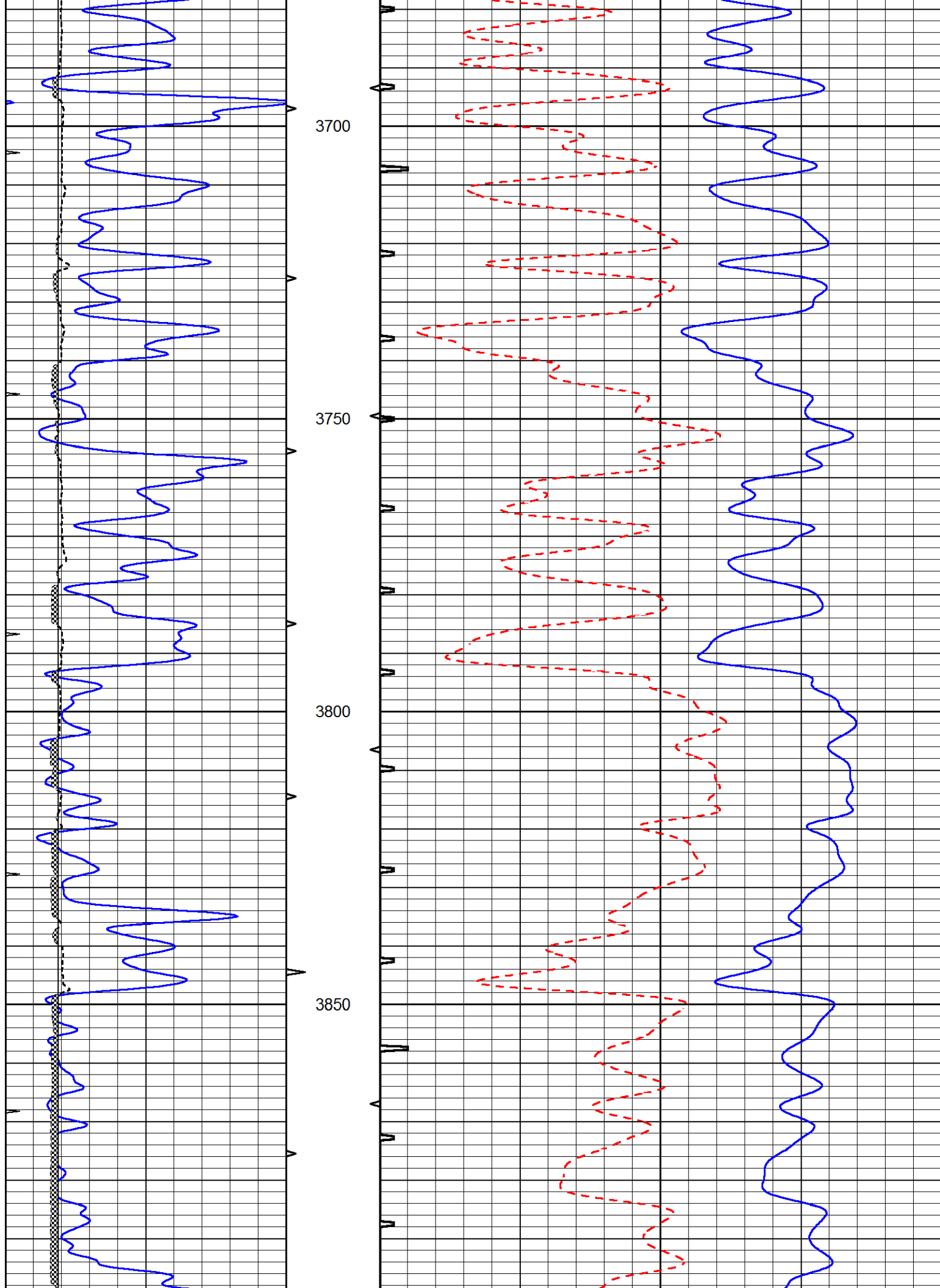
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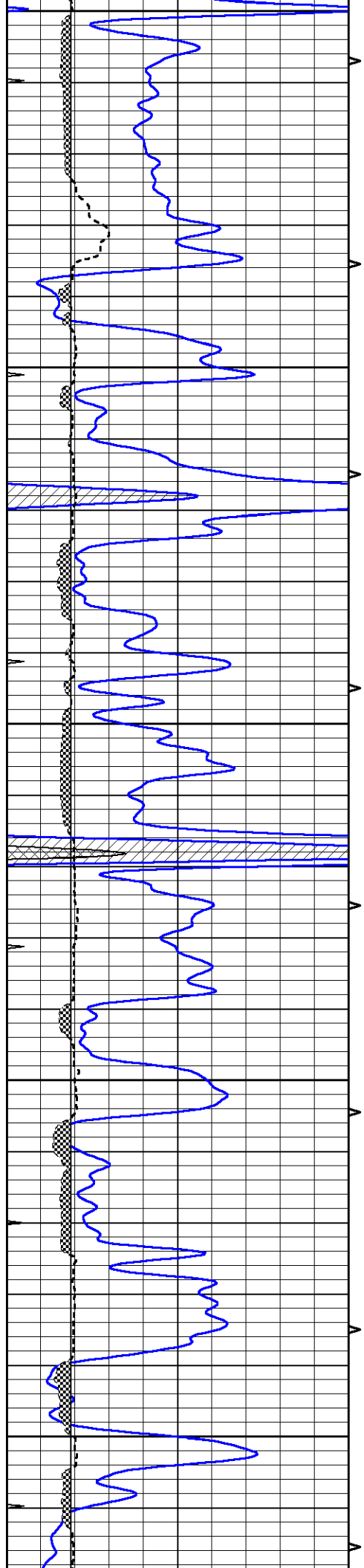
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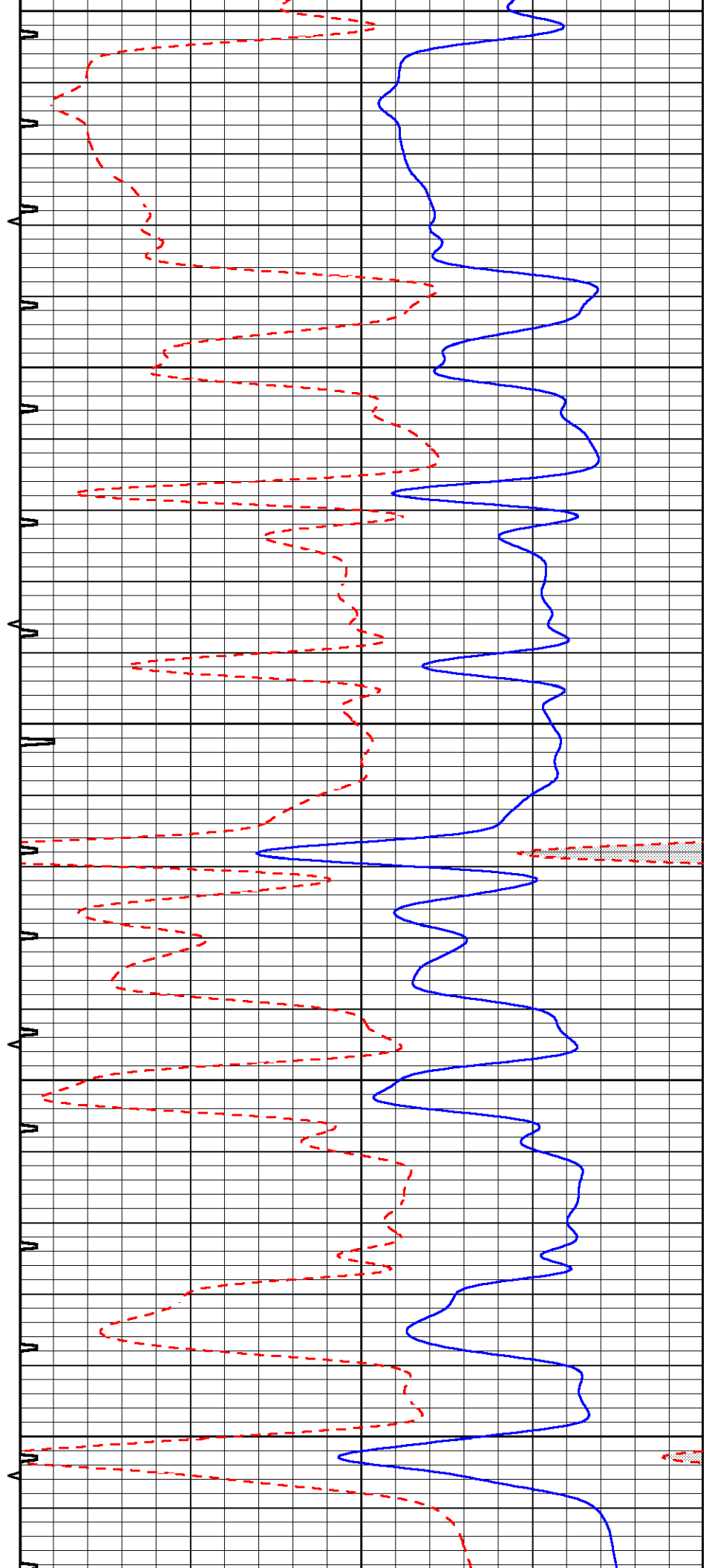
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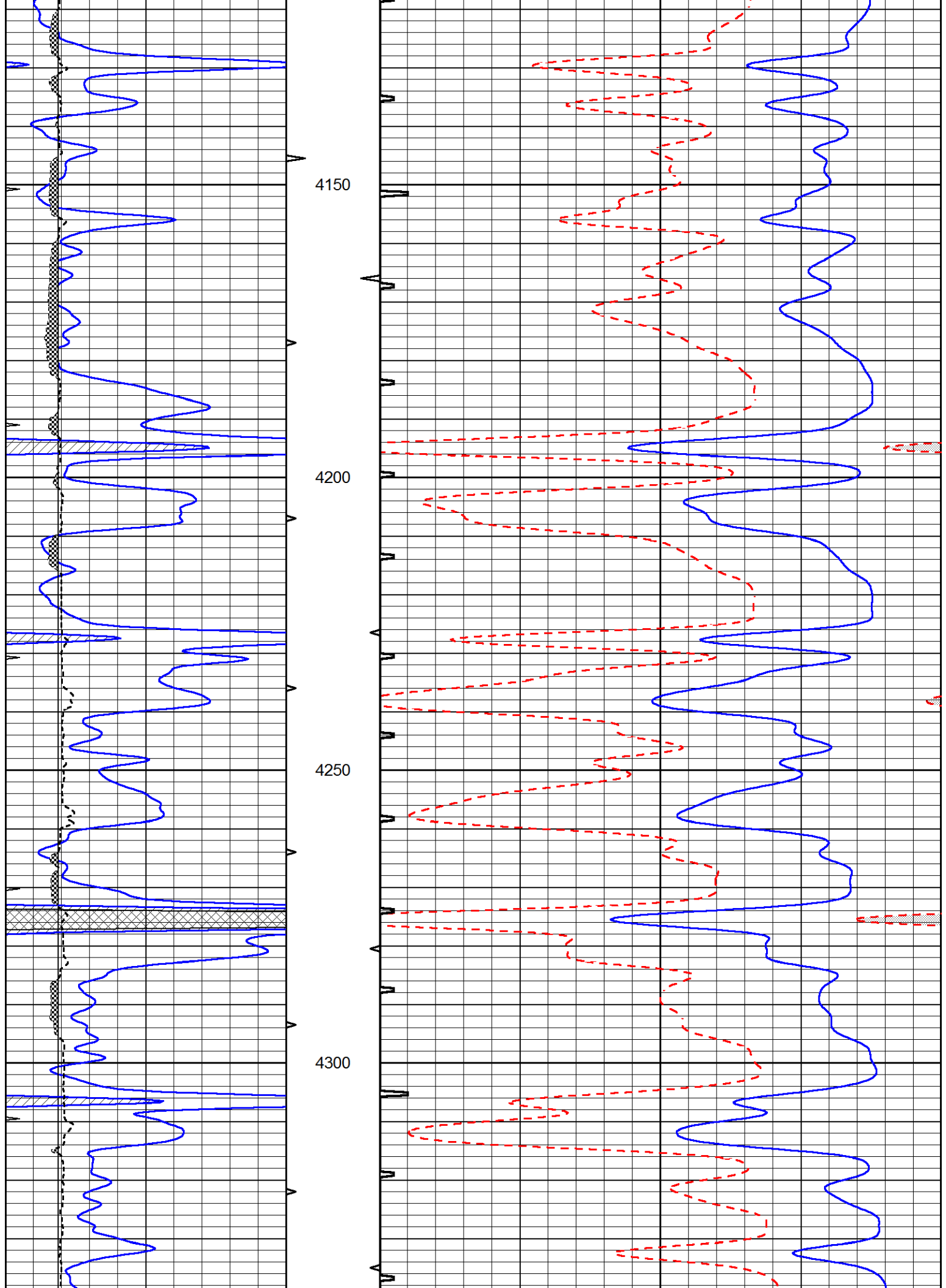
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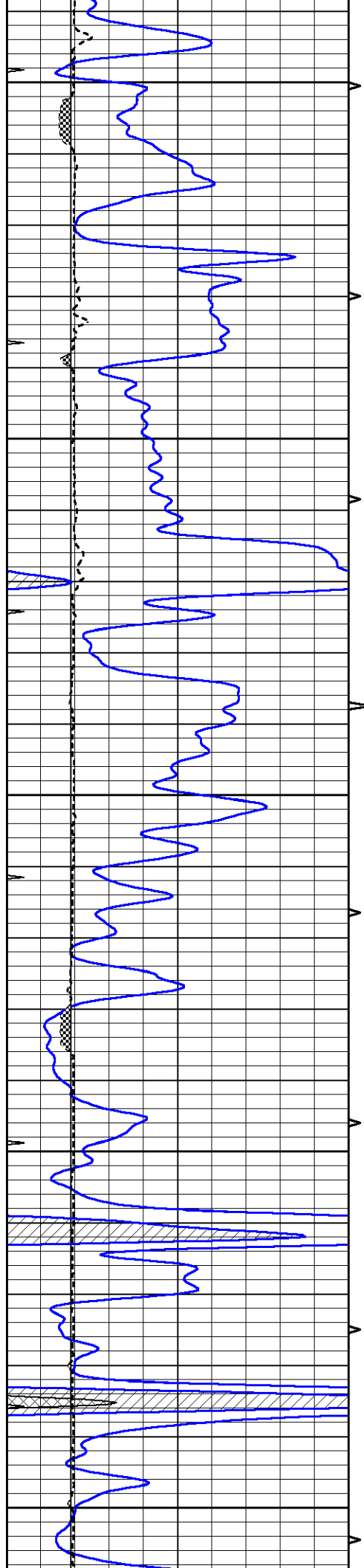
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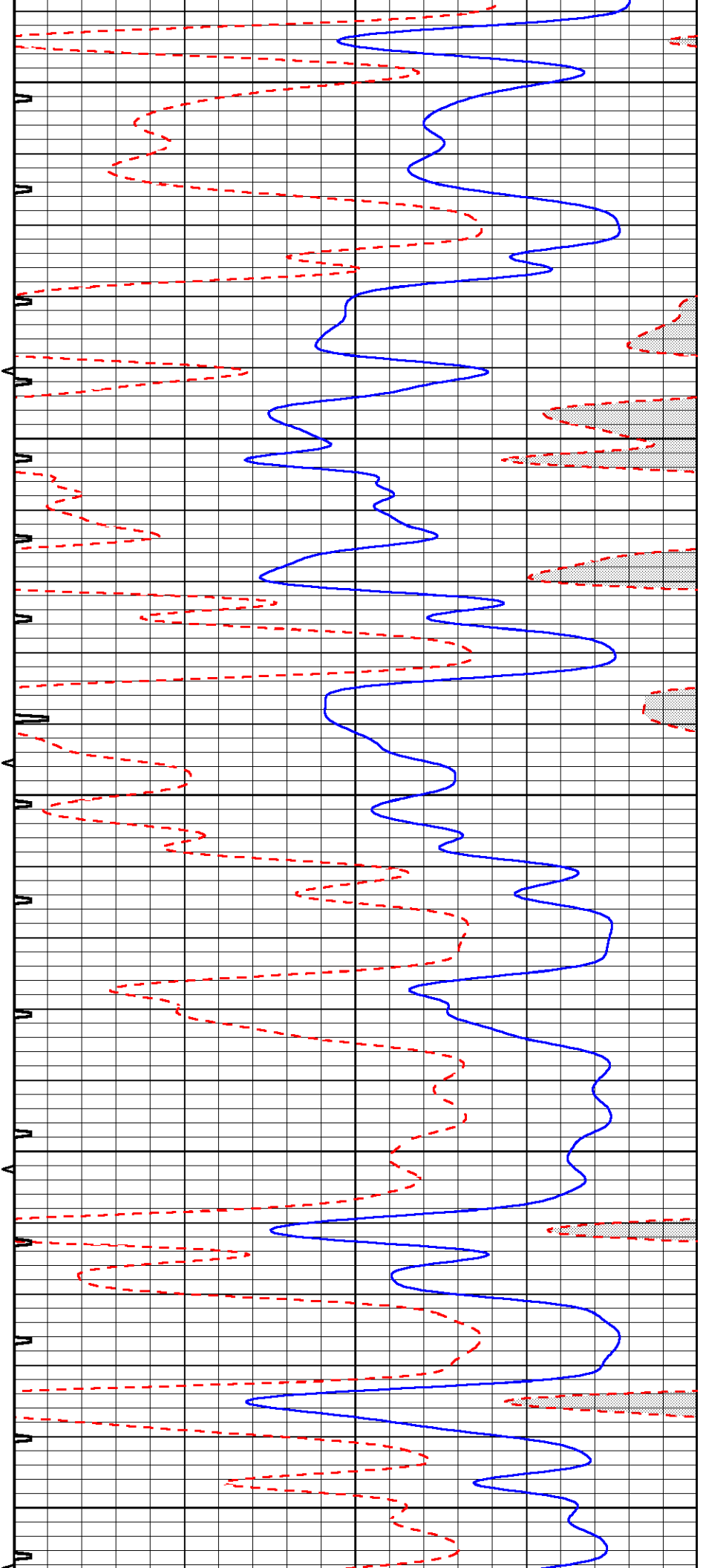
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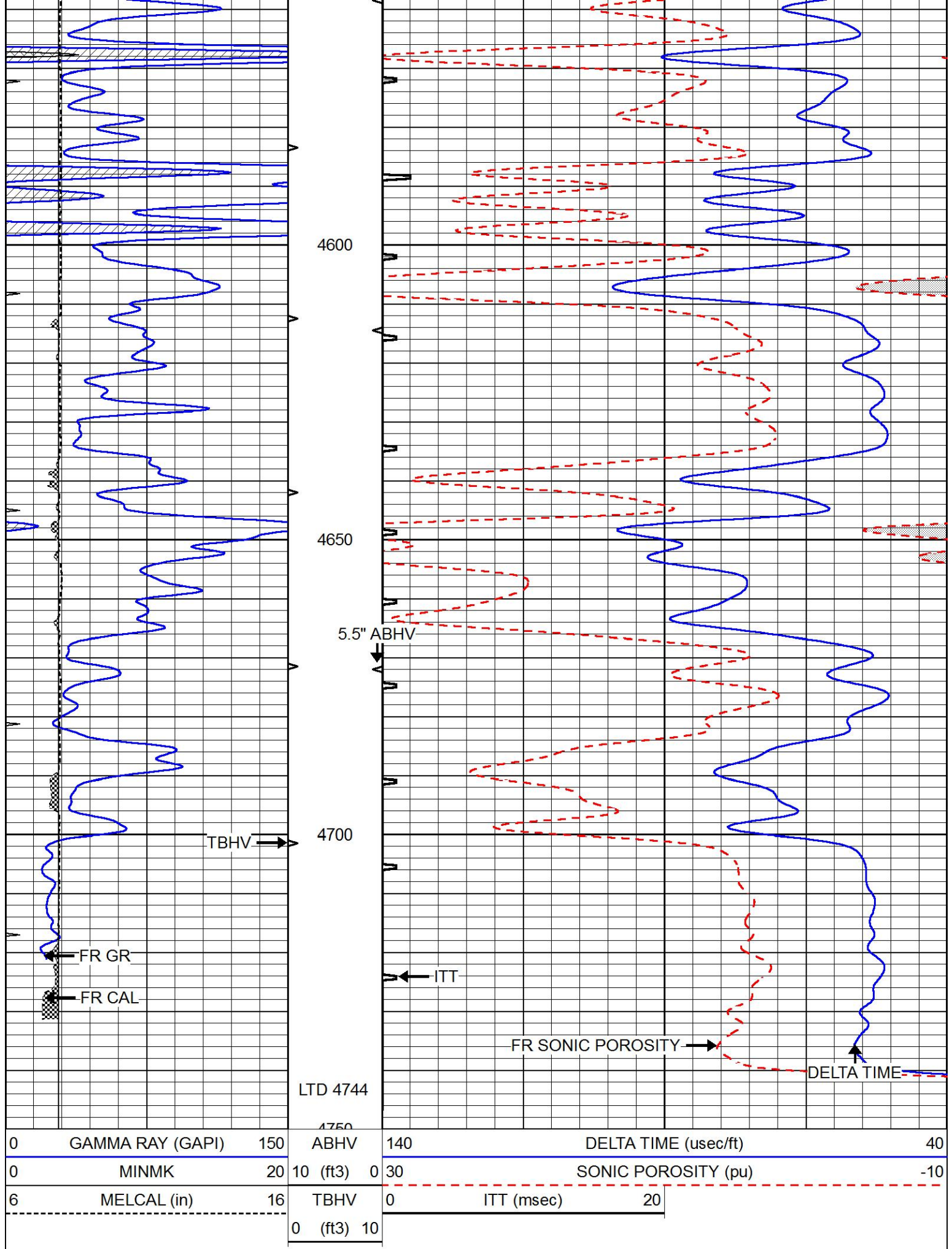
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4500

4550



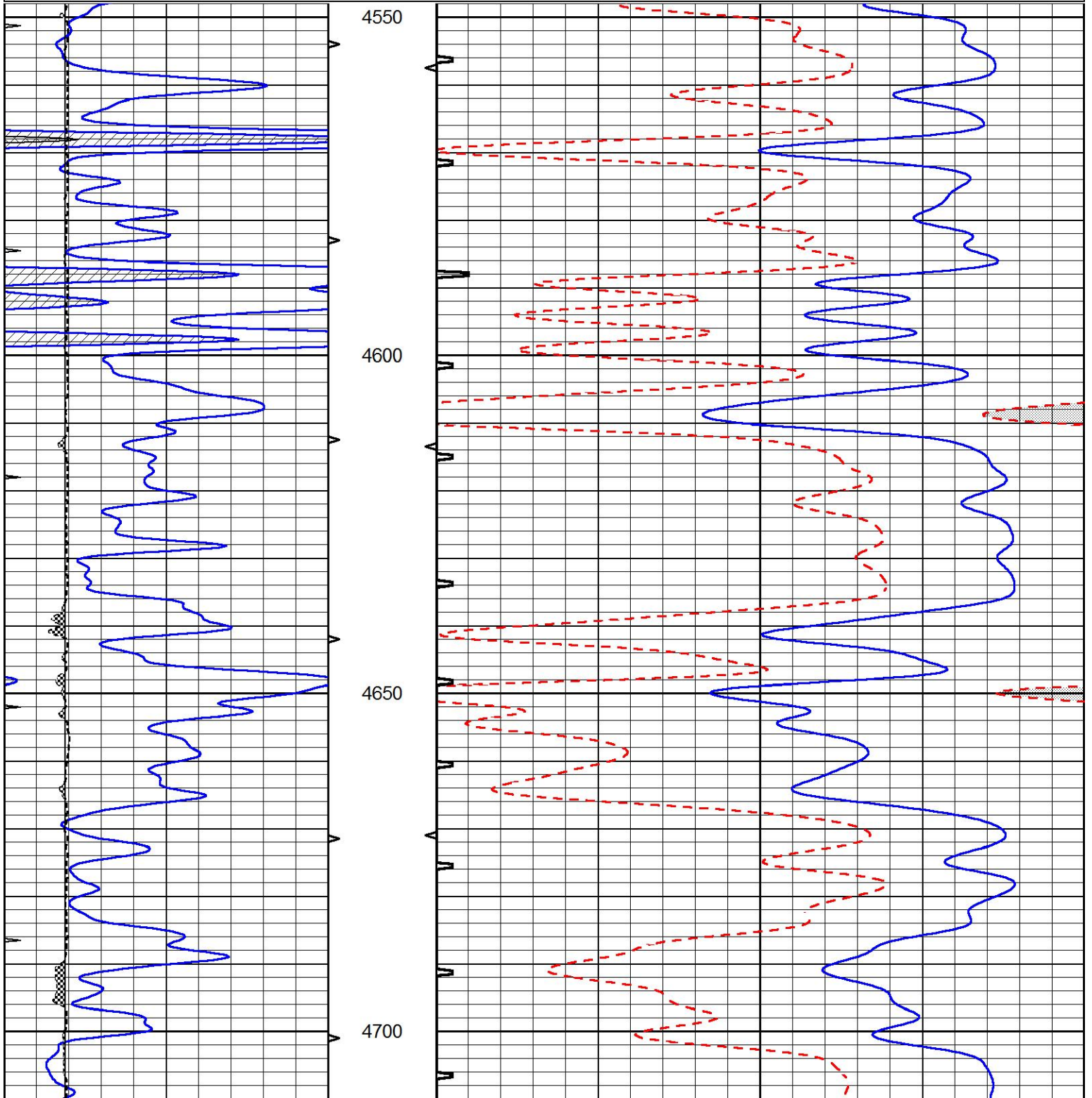


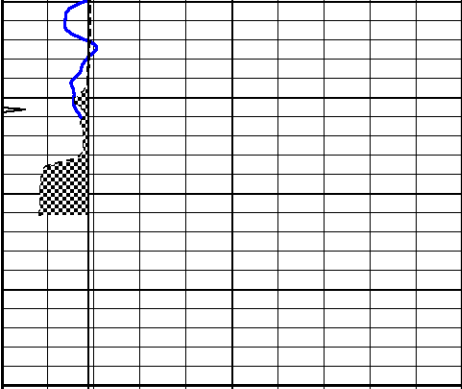


# REPEAT SECTION

Database File 7509pe.db  
Dataset Pathname pass5.2  
Presentation Format \_slt  
Dataset Creation Mon Feb 13 20:49:50 2023  
Charted by Depth in Feet scaled 1:240

|   |                  |     |            |     |                      |     |
|---|------------------|-----|------------|-----|----------------------|-----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV       | 140 | DELTA TIME (usec/ft) | 40  |
| 0 | MINMK            | 20  | 10 (ft3) 0 | 30  | SONIC POROSITY (pu)  | -10 |
| 6 | MELCAL (in)      | 16  | TBHV       | 0   | ITT (msec)           | 20  |
|   |                  |     | 0 (ft3) 10 |     |                      |     |

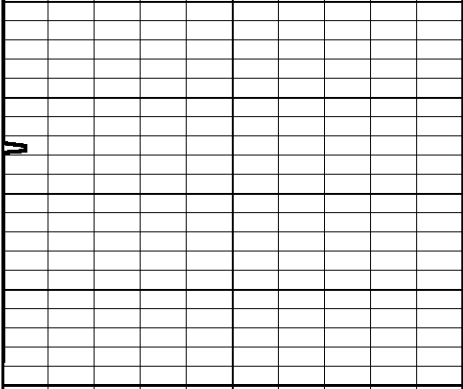




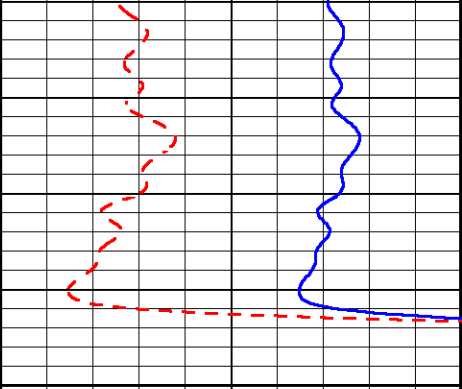
|   |                  |     |
|---|------------------|-----|
| 0 | GAMMA RAY (GAPI) | 150 |
| 0 | MINMK            | 20  |
| 6 | MELCAL (in)      | 16  |



|          |      |     |
|----------|------|-----|
| 4750     | ABHV | 140 |
| 10 (ft3) | 0    | 30  |
| TBHV     | 0    | 20  |
| 0 (ft3)  | 10   |     |



|     |                      |     |
|-----|----------------------|-----|
| 140 | DELTA TIME (usec/ft) | 40  |
| 30  | SONIC POROSITY (pu)  | -10 |
| 0   | ITT (msec)           | 20  |



|     |                      |     |
|-----|----------------------|-----|
| 40  | DELTA TIME (usec/ft) | 140 |
| -10 | SONIC POROSITY (pu)  | 30  |
| 20  | ITT (msec)           | 0   |