



Pioneer Energy Services

## Radiation Guard Log

|                        |                                                                                                                 |                                                  |  |
|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|
| API No.                | Company <b>Berexco, LLC</b><br>Well <b>Michael # 3-22</b><br>Field<br>County <b>Rawlins</b> State <b>Kansas</b> |                                                  |  |
| 15-153-20,946-00-00    | Location<br><b>1,200' FSL &amp; 2,300' FWL</b>                                                                  | Other Services<br>MEL/BHCS                       |  |
|                        | Sec: <b>22</b> Twp: <b>1S</b> Rge: <b>36W</b>                                                                   | Elevation<br>K.B. 3141<br>D.F. 3128<br>G.L. 3128 |  |
| Permanent Datum        | Ground Level                                                                                                    | Elevation 3128                                   |  |
| Log Measured From      | Kelly Bushing                                                                                                   | 13 Ft. Above Perm. Datum                         |  |
| Drilling Measured From | From Kelly Bushing                                                                                              |                                                  |  |
| Date                   | 10/4/2013                                                                                                       |                                                  |  |
| Run Number             | One                                                                                                             |                                                  |  |
| Depth Driller          | 5108                                                                                                            |                                                  |  |
| Depth Logger           | 5115                                                                                                            |                                                  |  |
| Bottom Logged Interval | 5114                                                                                                            |                                                  |  |
| Top Log Interval       | 300                                                                                                             |                                                  |  |
| Casing Driller         | 8.625 @ 310                                                                                                     |                                                  |  |
| Casing Logger          | 309                                                                                                             |                                                  |  |
| Bit Size               | 7.875                                                                                                           |                                                  |  |
| Type Fluid in Hole     | Chemical                                                                                                        |                                                  |  |
| Salinity, ppm CL       | 1200                                                                                                            |                                                  |  |
| Density / Viscosity    | 9.3 41                                                                                                          |                                                  |  |
| pH / Fluid Loss        | 11.0 8.8                                                                                                        |                                                  |  |
| Source of Sample       | Flowline                                                                                                        |                                                  |  |
| Rm @ Meas. Temp        | .70 @ 62                                                                                                        |                                                  |  |
| Rmf @ Meas. Temp       | .53 @ 62                                                                                                        |                                                  |  |
| Rmc @ Meas. Temp       | .95 @ 62                                                                                                        |                                                  |  |
| Source of Rmf / Rmc    | Charts                                                                                                          |                                                  |  |
| Rm @ BHT               | .34 @ 127                                                                                                       |                                                  |  |
| Operating Rig Time     | 4 Hours                                                                                                         |                                                  |  |
| Max Rec. Temp. F       | 127                                                                                                             |                                                  |  |
| Equipment Number       | 108                                                                                                             |                                                  |  |
| Location               | Hays                                                                                                            |                                                  |  |
| Recorded By            | J. Long                                                                                                         |                                                  |  |
| Witnessed By           | Ryan White                                                                                                      |                                                  |  |

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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 Pioneer Energy Services  
www.pioneerres.com  
785 625 3858

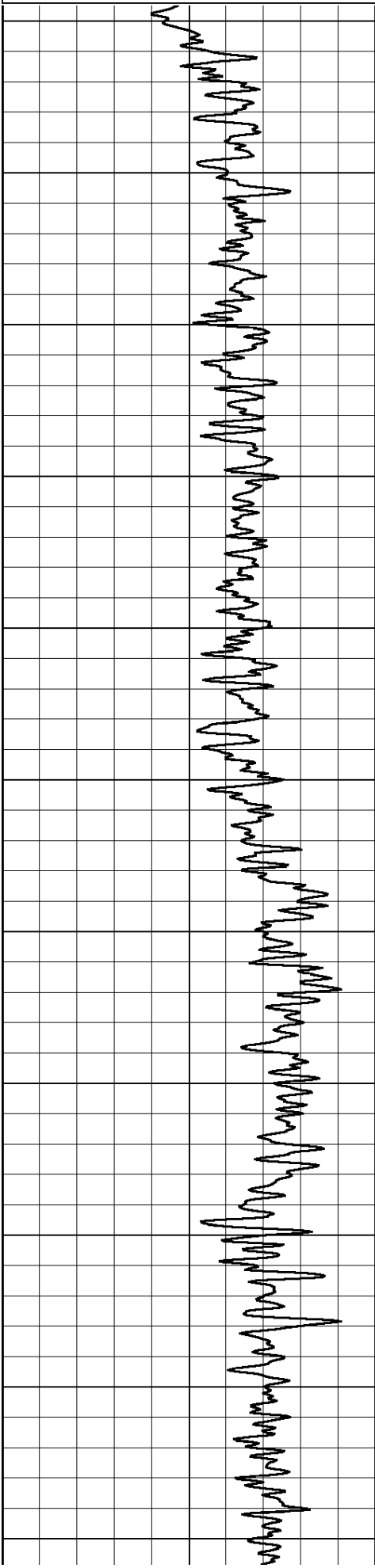
McDonald, 12 North to BB Road, 1 1/2 East, 1/4 South, 1/4 East

Database File: c:\warrior\data\berexco\_michael # 3-22\berexco\_michael\_3-22hd.db  
Dataset Pathname: rag/berrag  
Presentation Format: rag2in  
Dataset Creation: Fri Oct 04 07:11:38 2013  
Charted by: Depth in Feet scaled 1:600

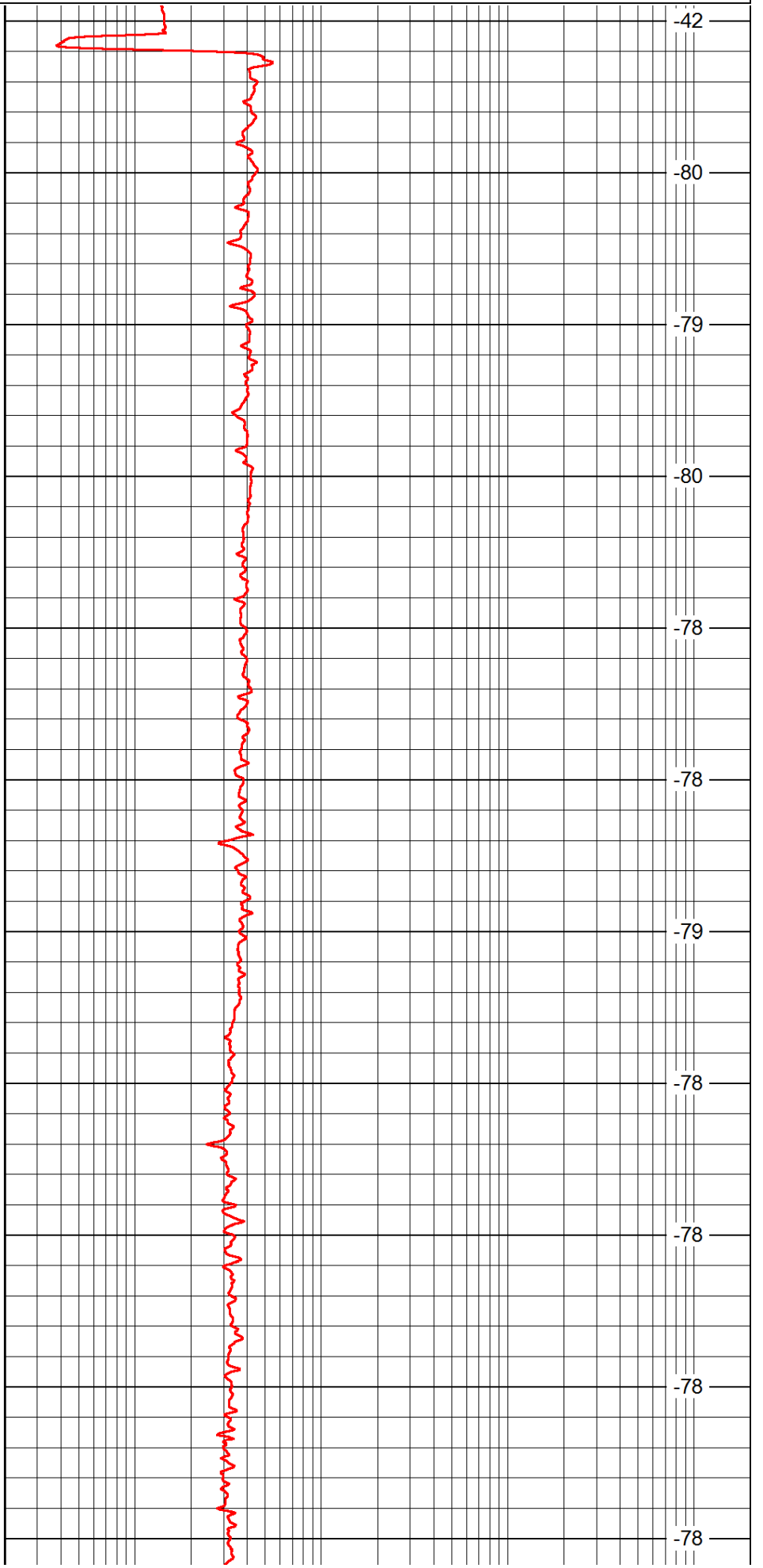
0 Gamma Ray 150

0.2 lgrd 2000

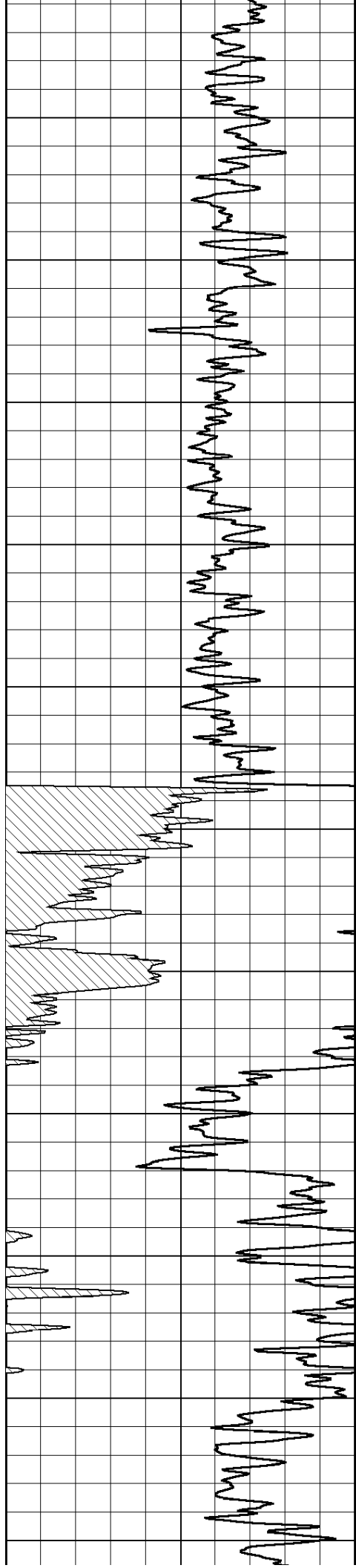
LSPD



300  
350  
400  
450  
500  
550  
600  
650  
700  
750  
800



-42  
-80  
-79  
-80  
-78  
-78  
-79  
-78  
-78  
-78  
-78



850

900

950

1000

1050

1100

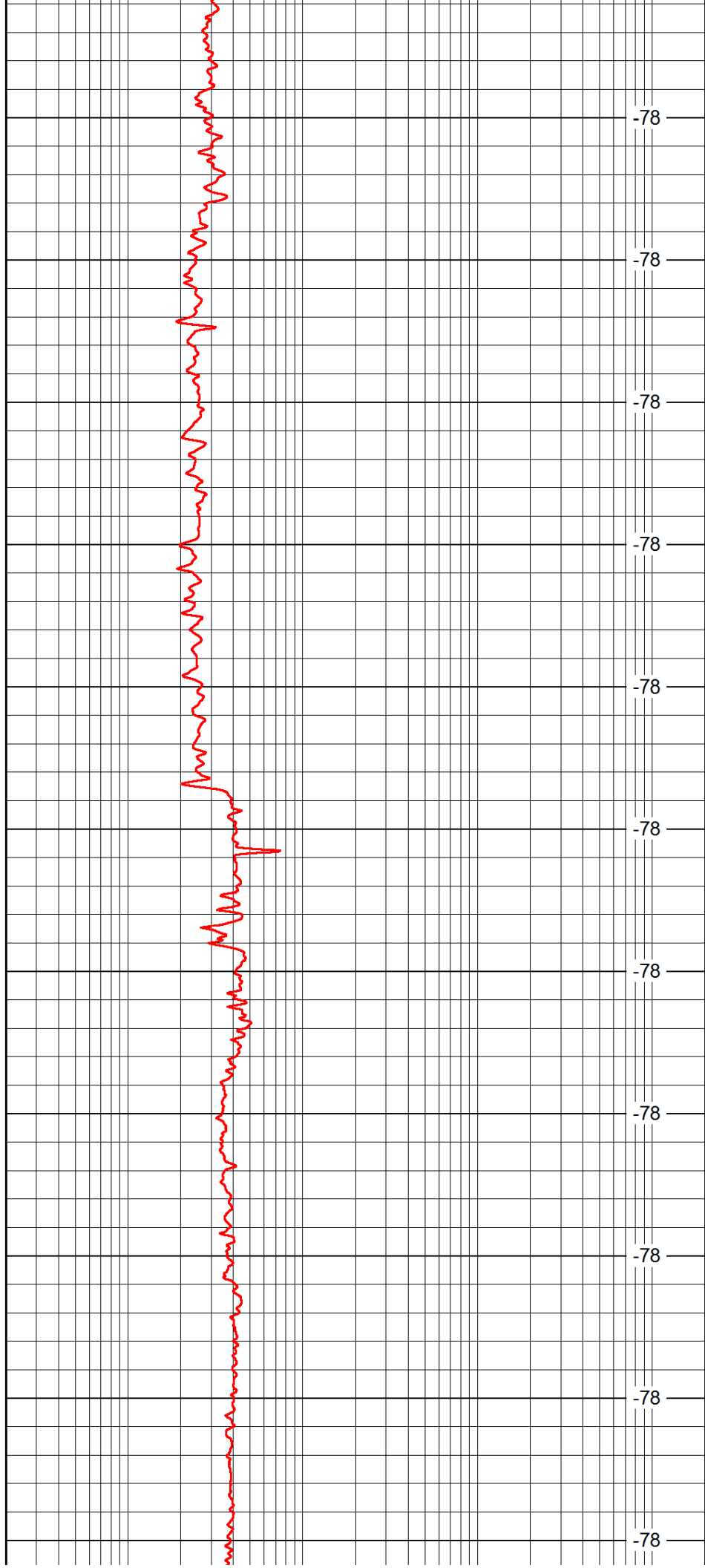
1150

1200

1250

1300

1350



-78

-78

-78

-78

-78

-78

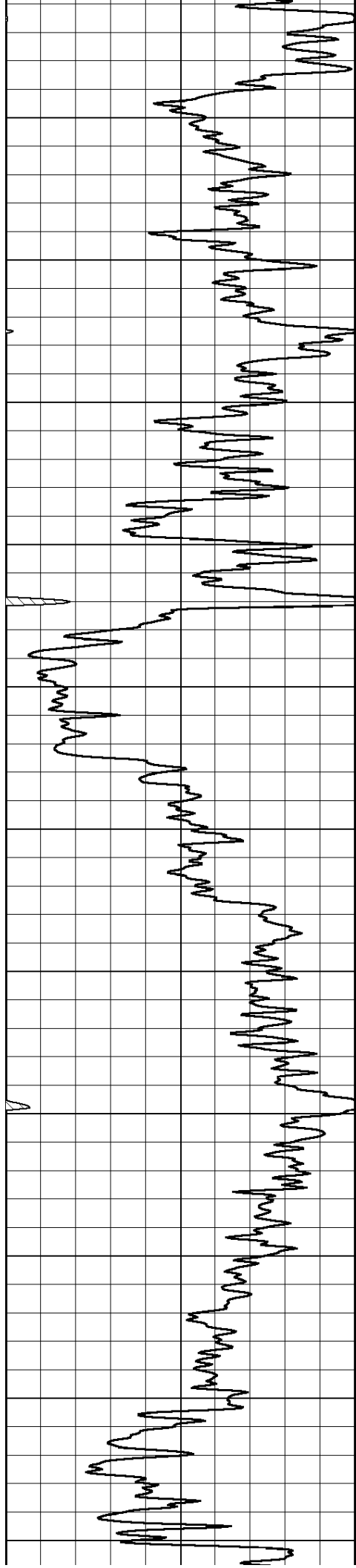
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-78

-78

-78

-78



1400

1450

1500

1550

1600

1650

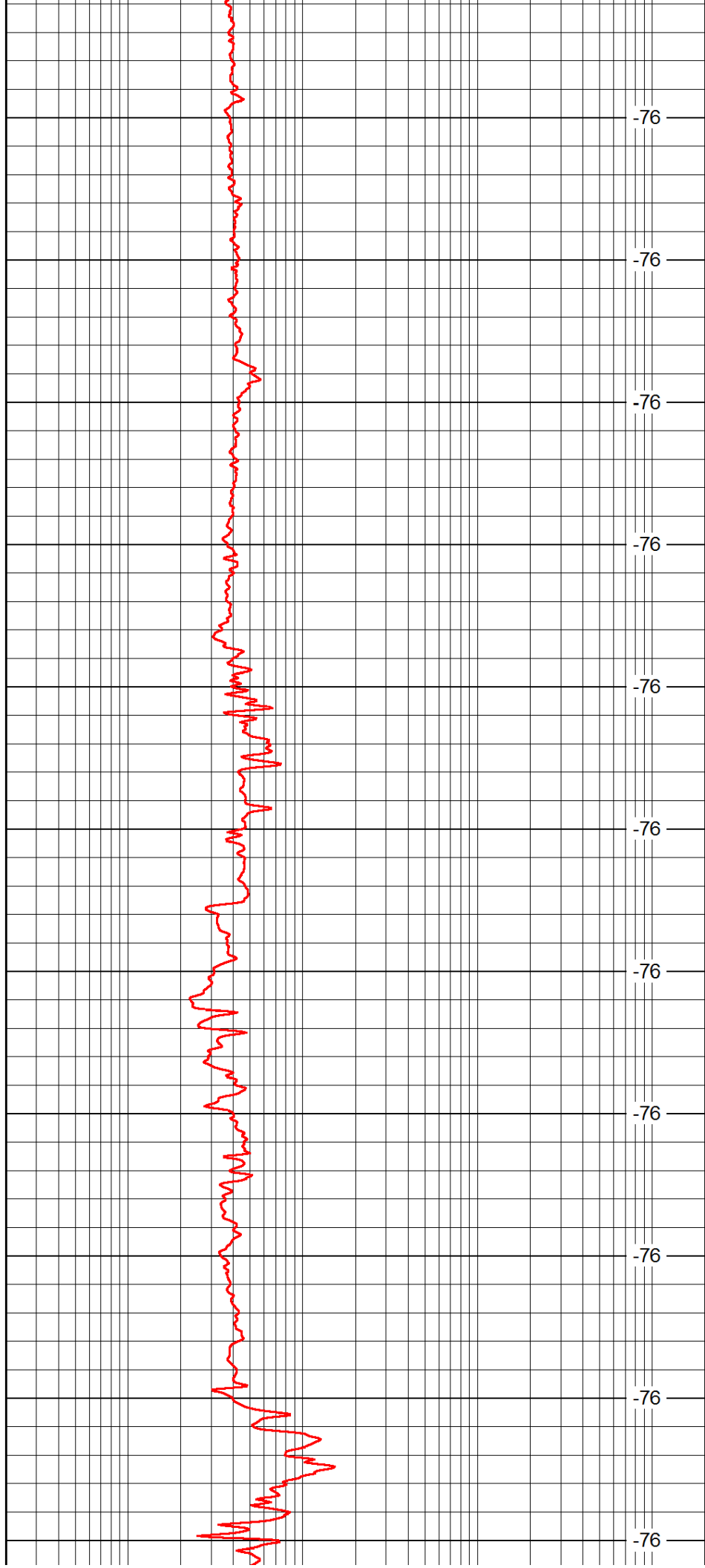
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1750

1800

1850

1900



-76

-76

-76

-76

-76

-76

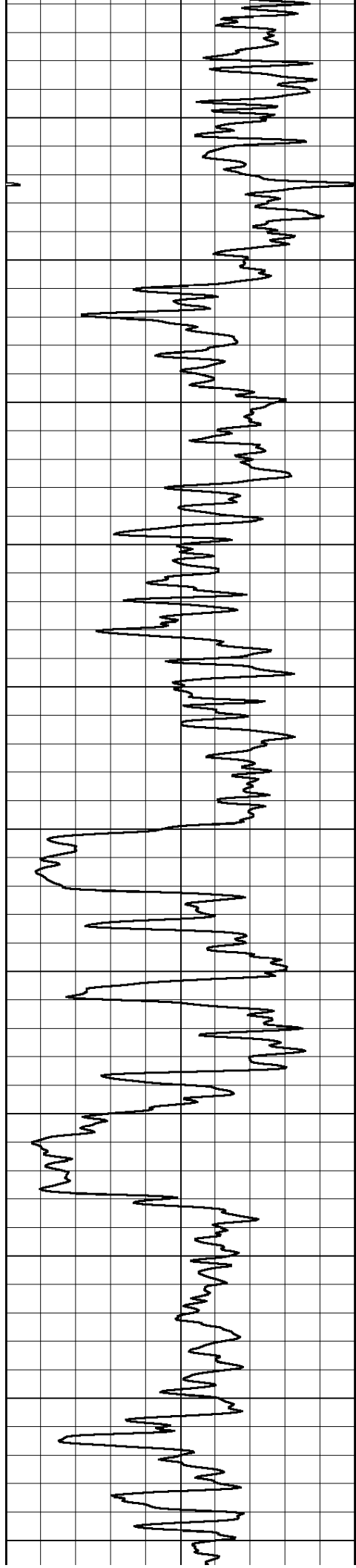
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-76

-76

-76

-76



1950

2000

2050

2100

2150

2200

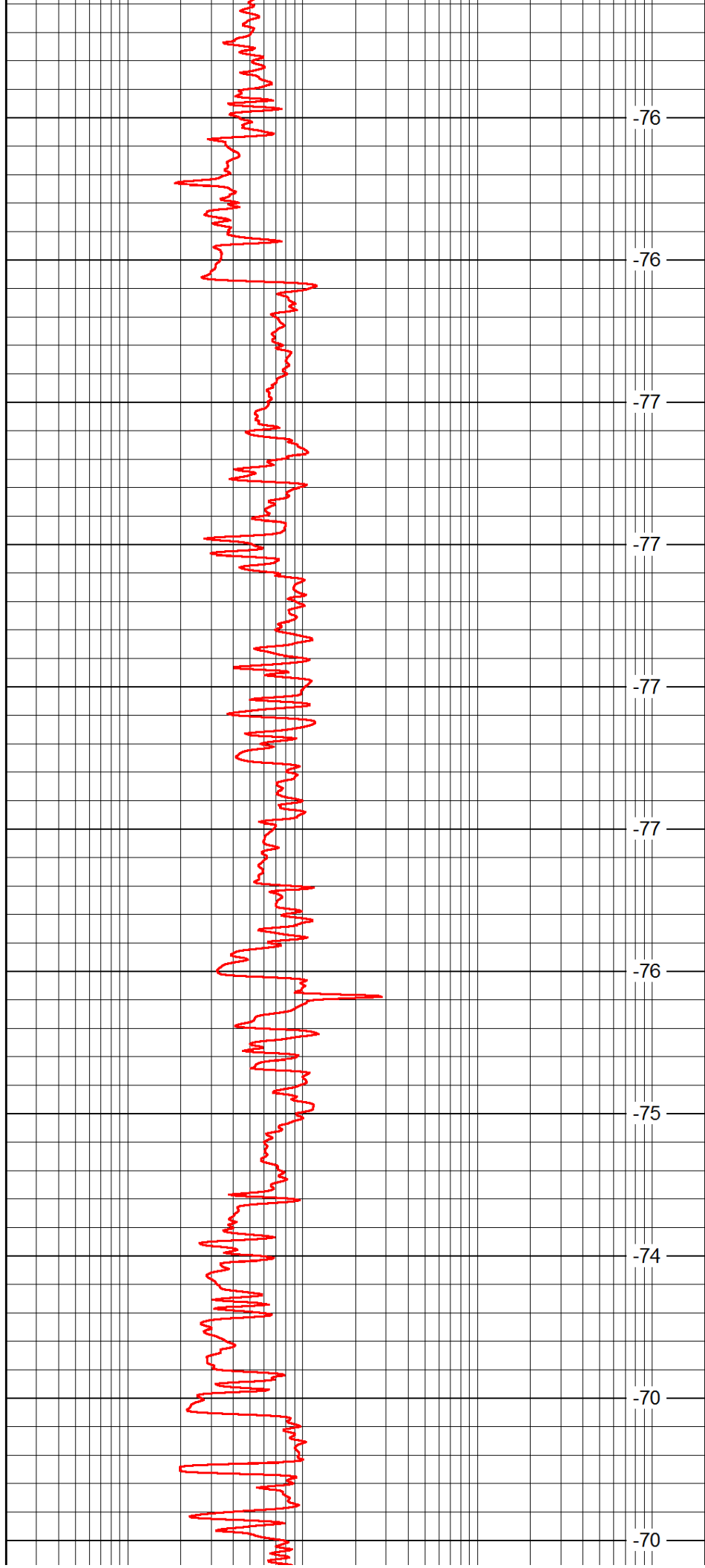
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2300

2350

2400

2450



-76

-76

-77

-77

-77

-77

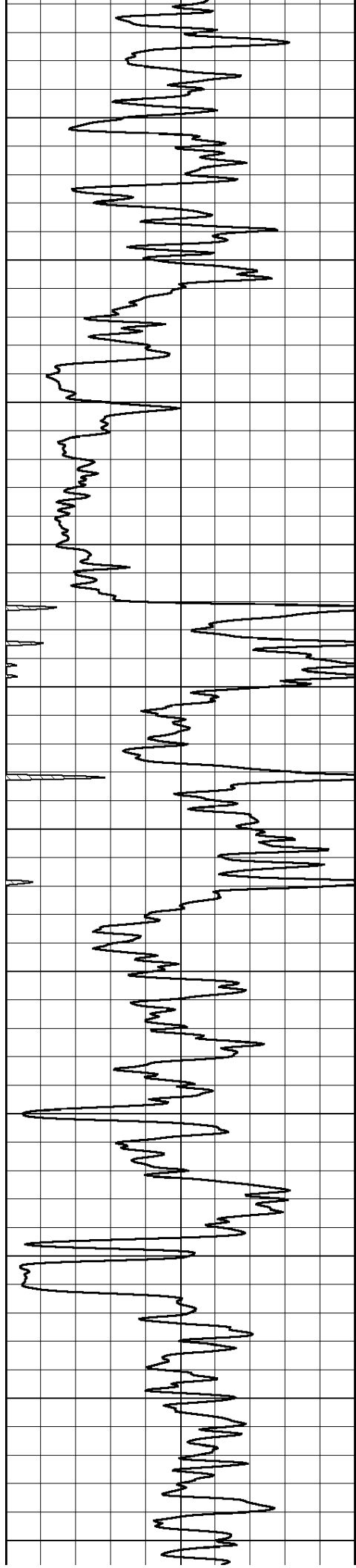
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-74

-70

-70



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2550

2600

2650

2700

2750

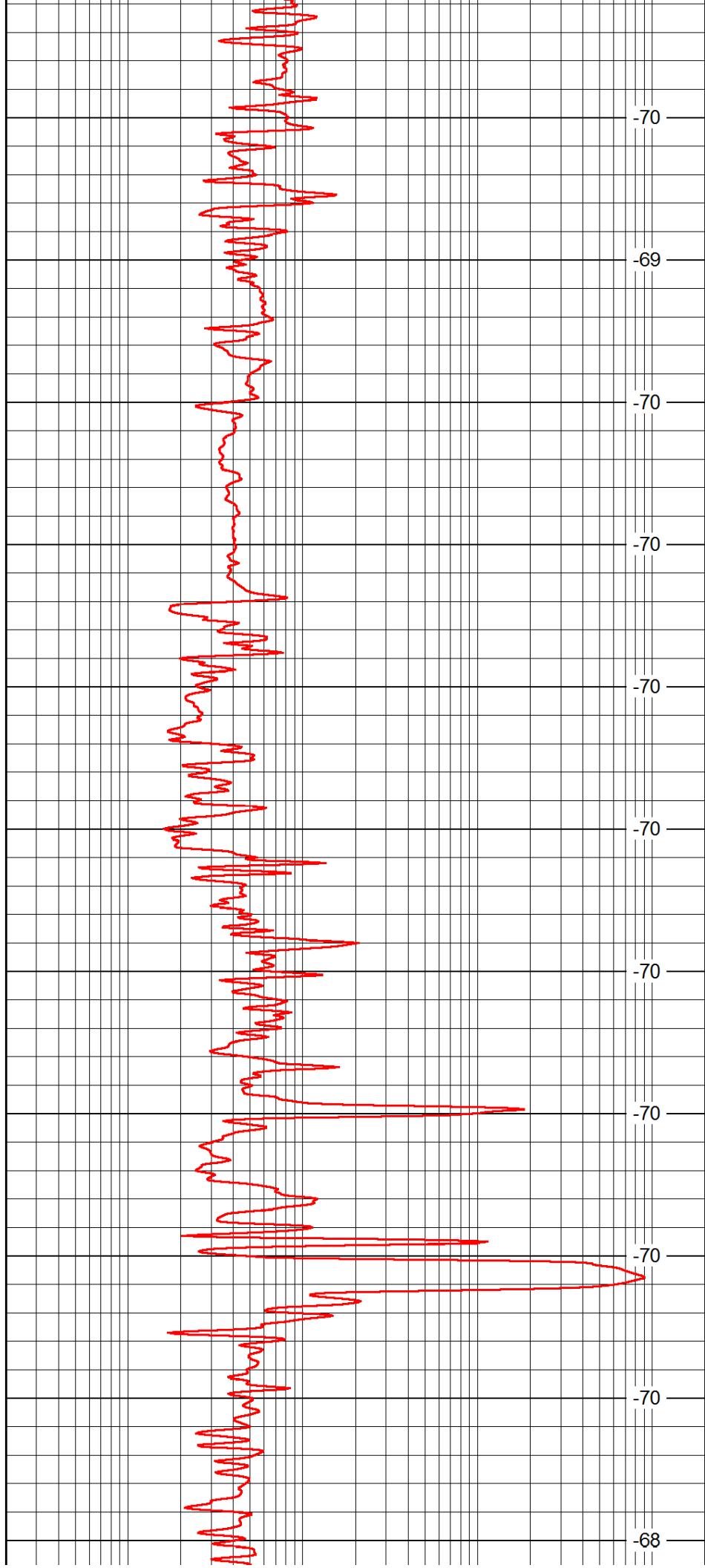
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2850

2900

2950

3000



-70

-69

-70

-70

-70

-70

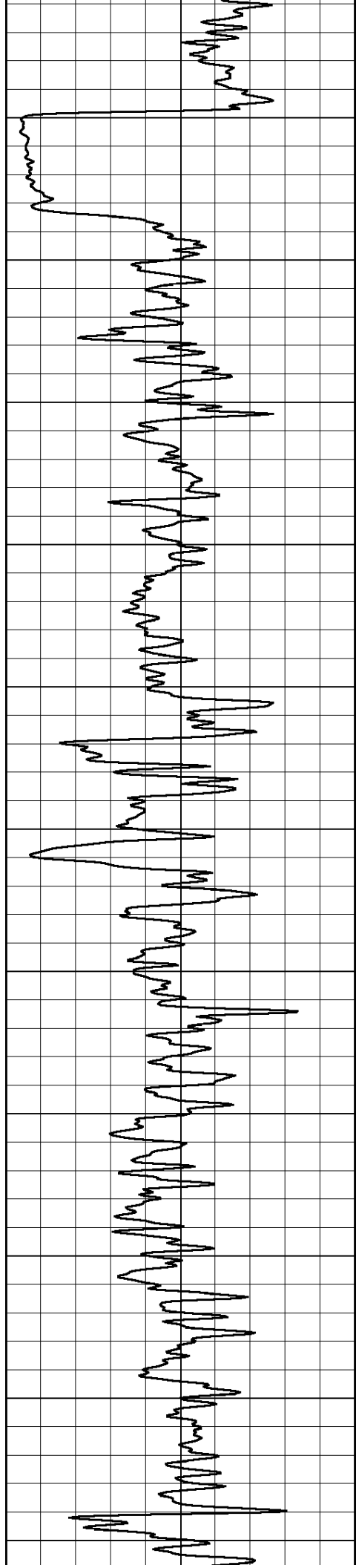
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-70

-70

-68



3050

3100

3150

3200

3250

3300

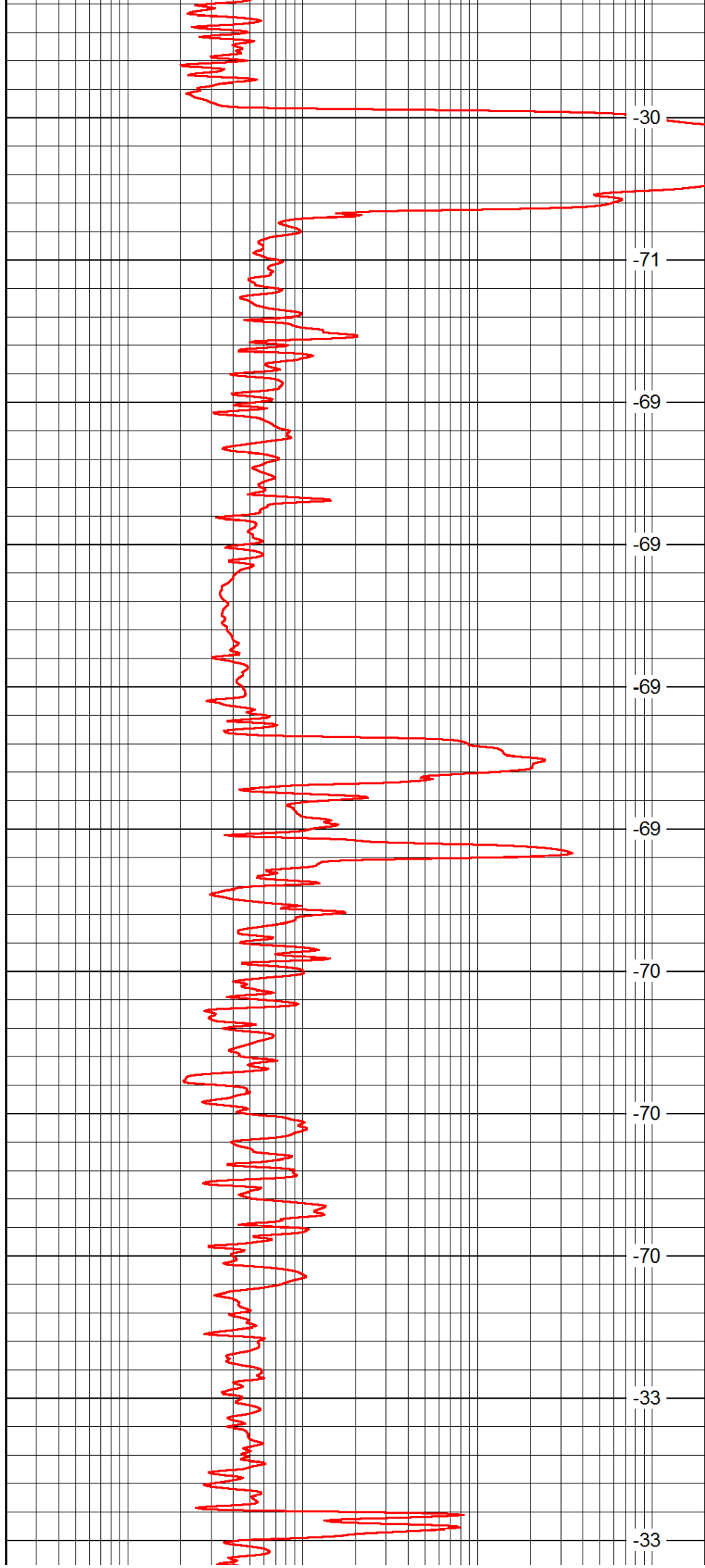
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3400

3450

3500

3550



-30

-31

-32

-33

-30

-31

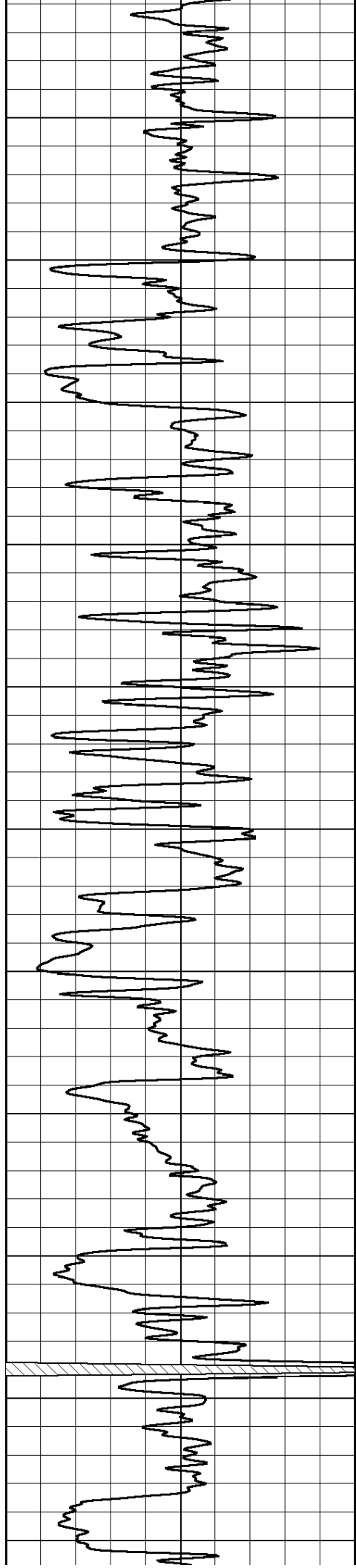
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-30

-31

-32



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3700

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3800

3850

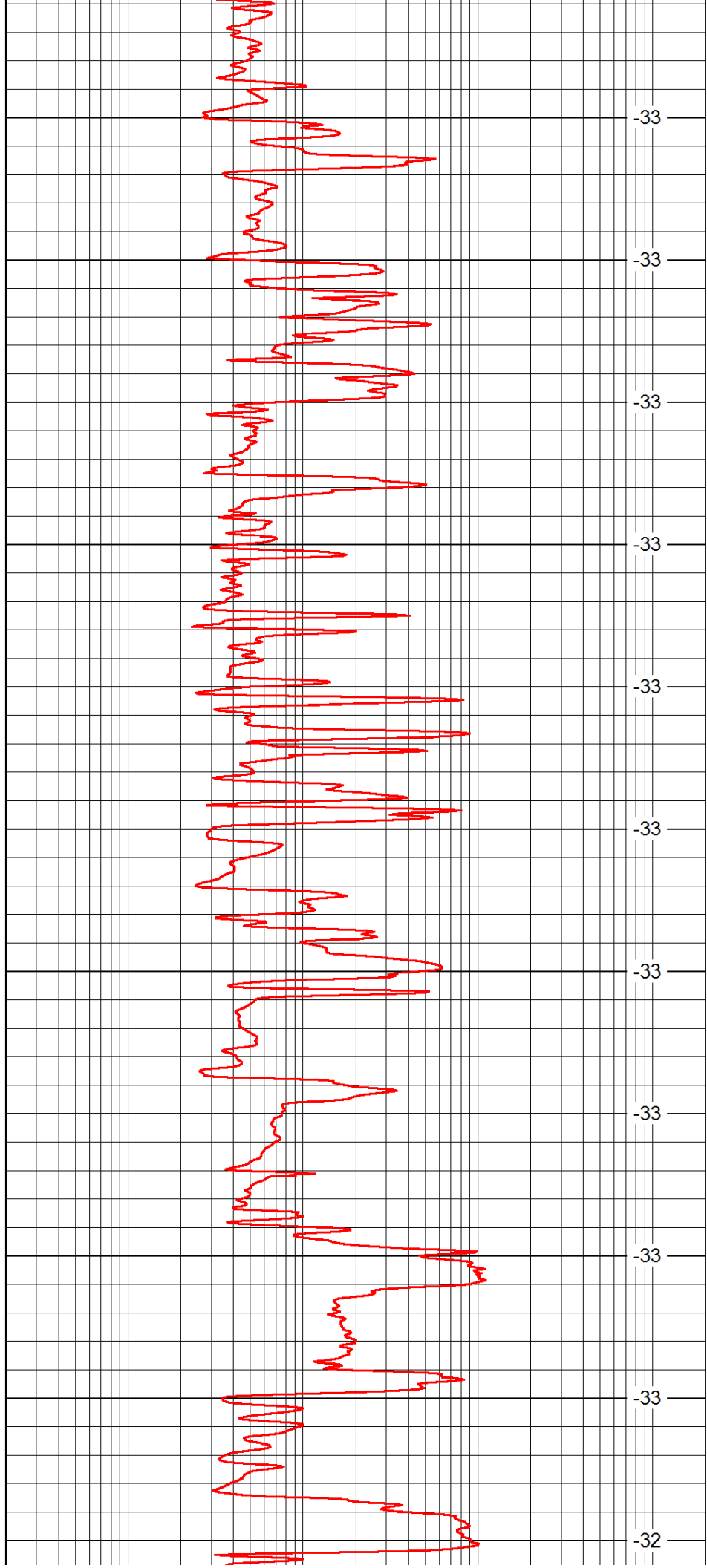
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4050

4100



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-33

-33

-33

-33

-33

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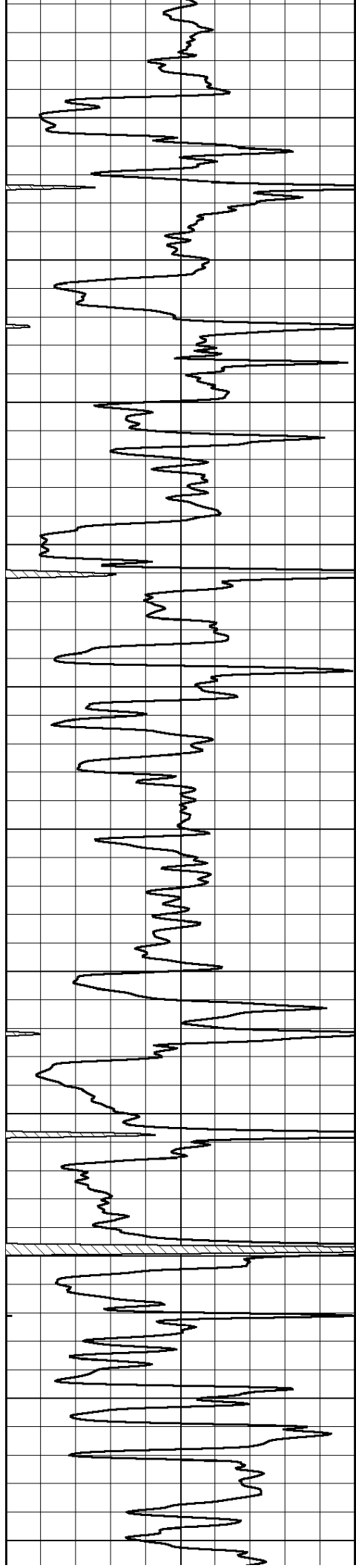
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-33

-33

-32





4150

4200

4250

4300

4350

4400

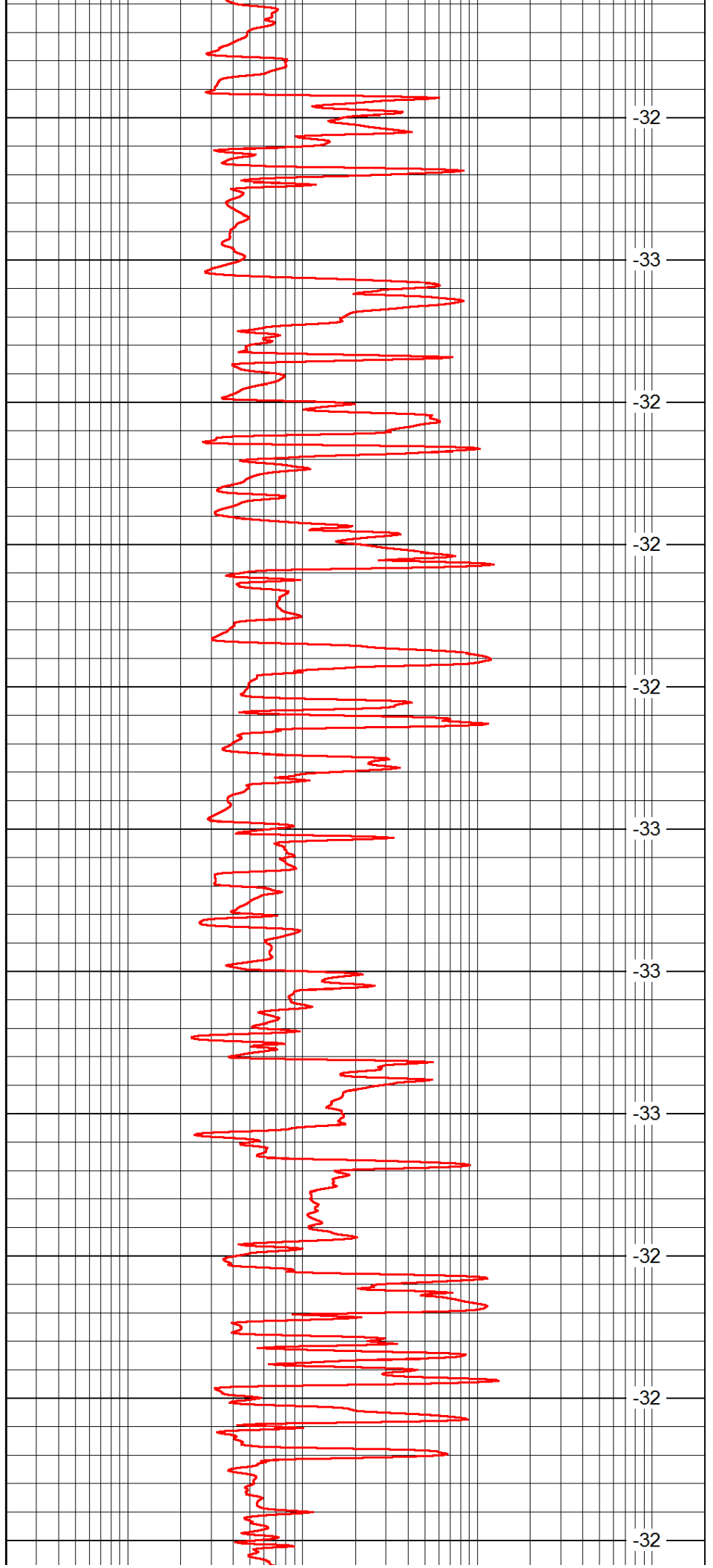
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4500

4550

4600

4650



-32

-33

-32

-32

-32

-33

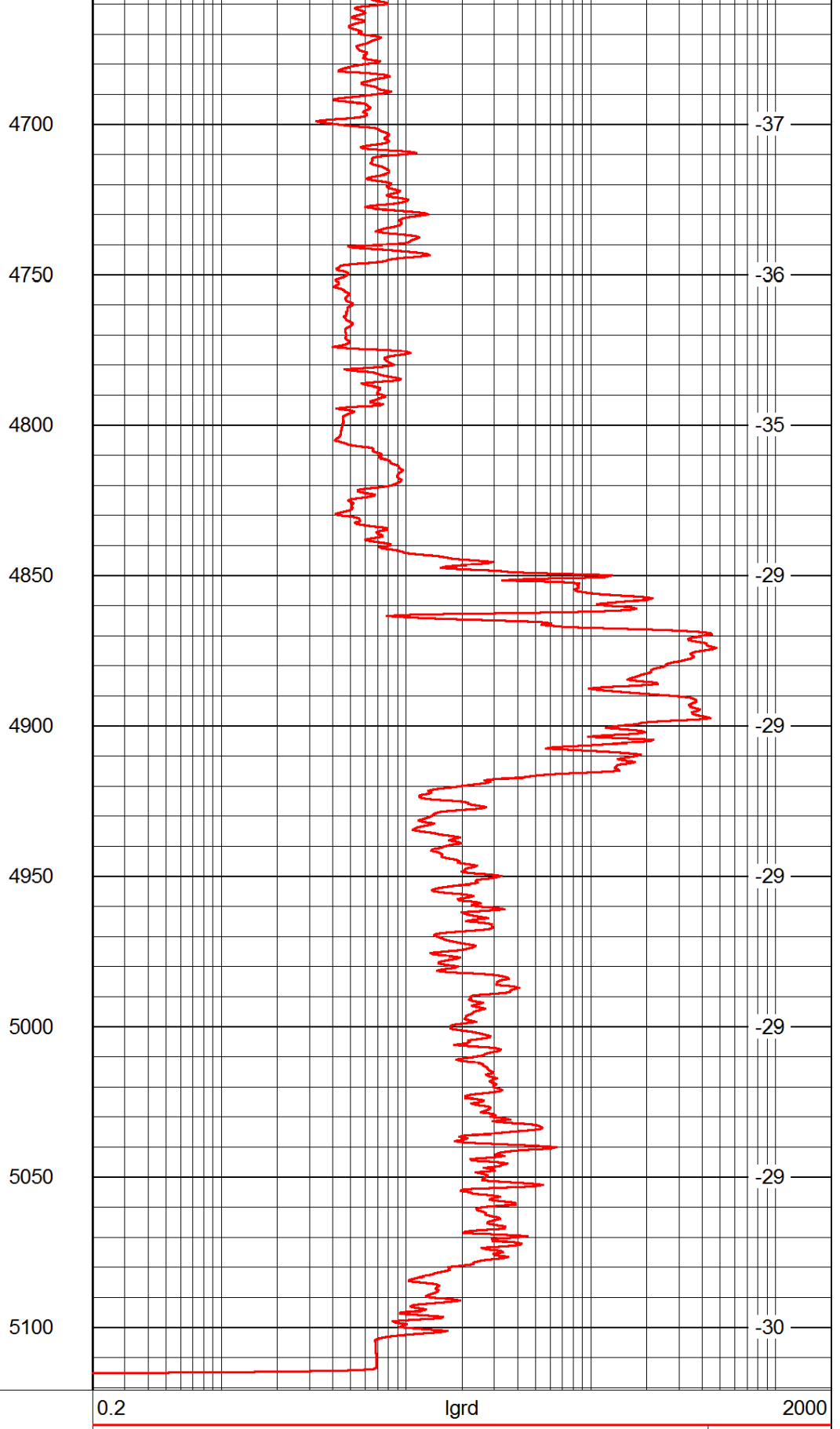
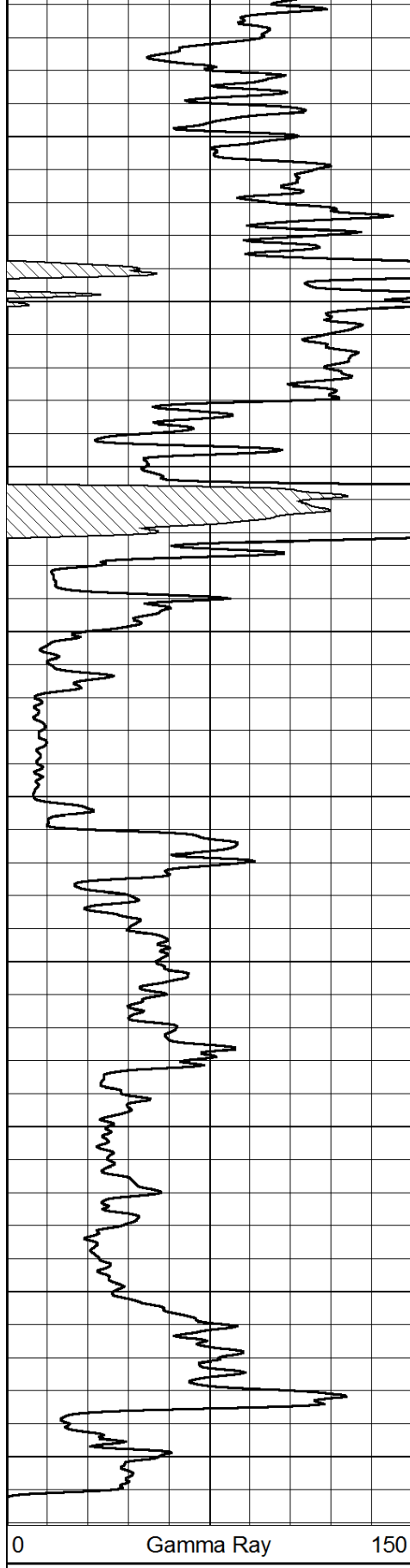
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-33

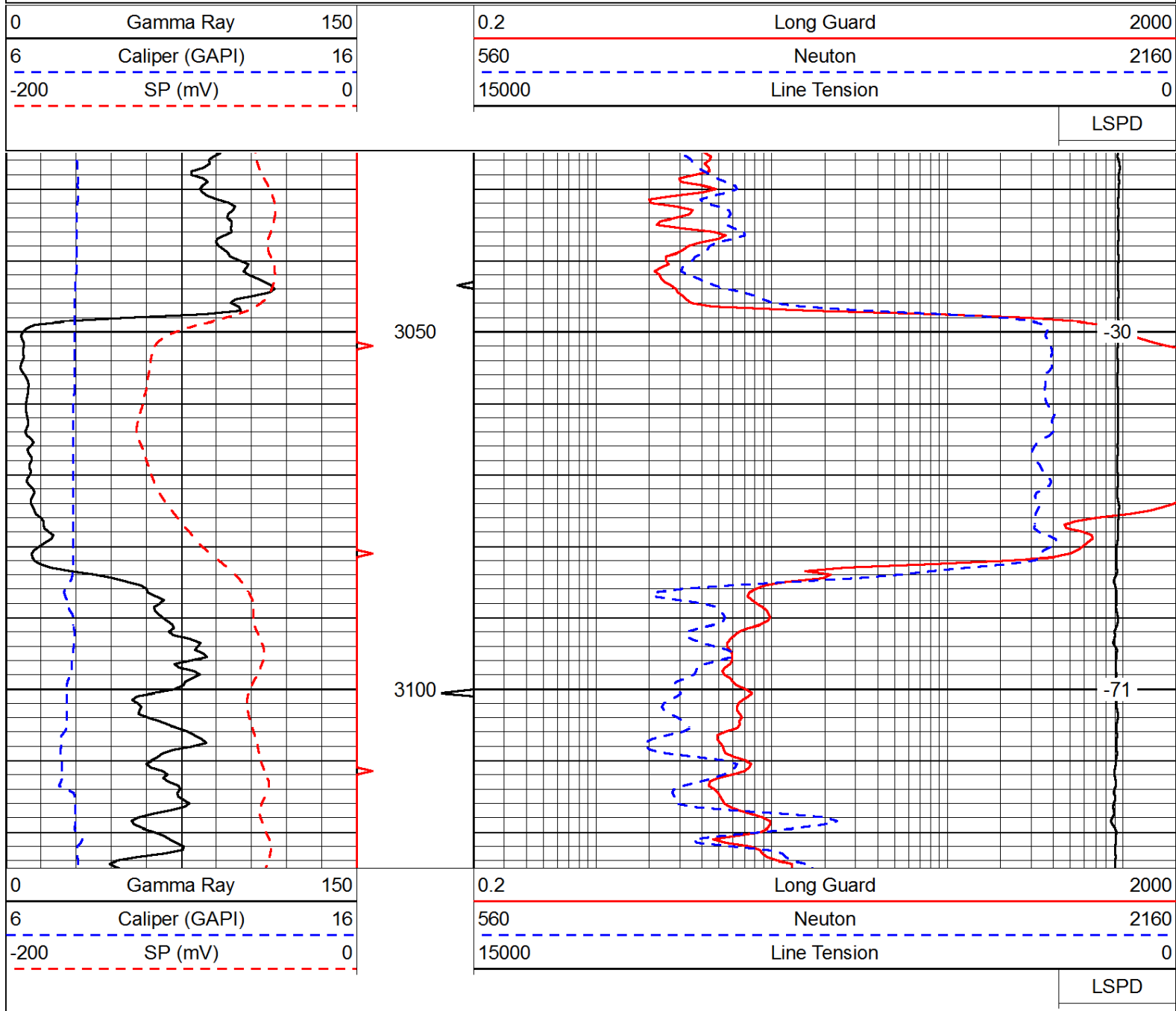
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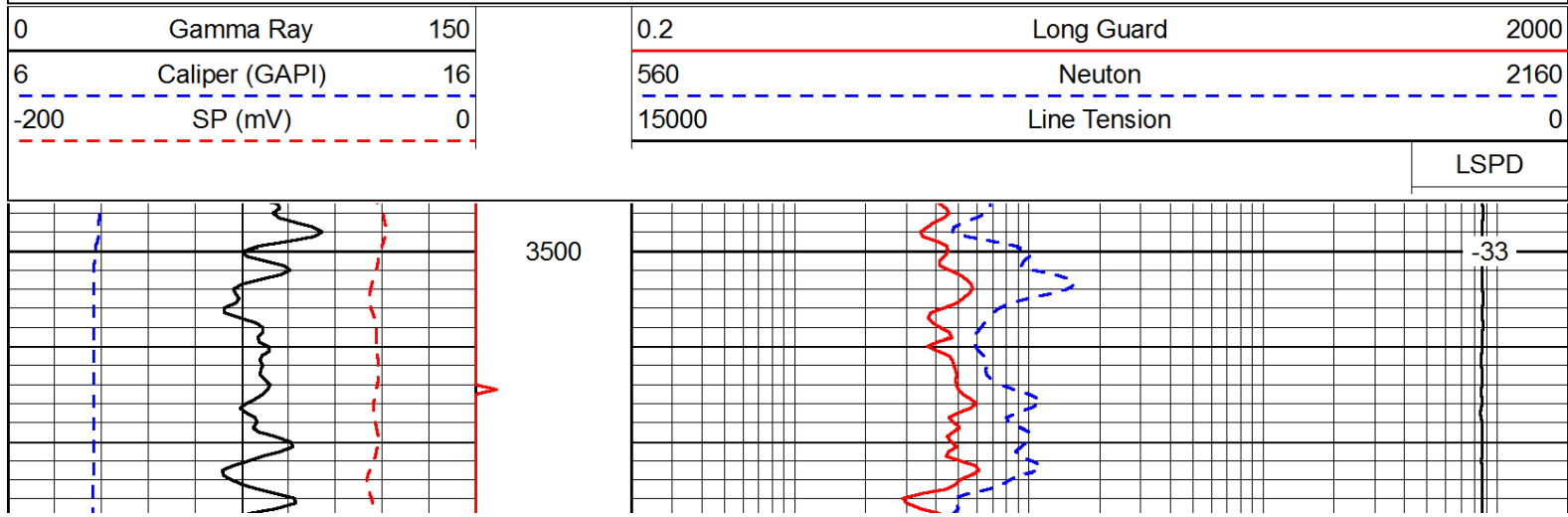
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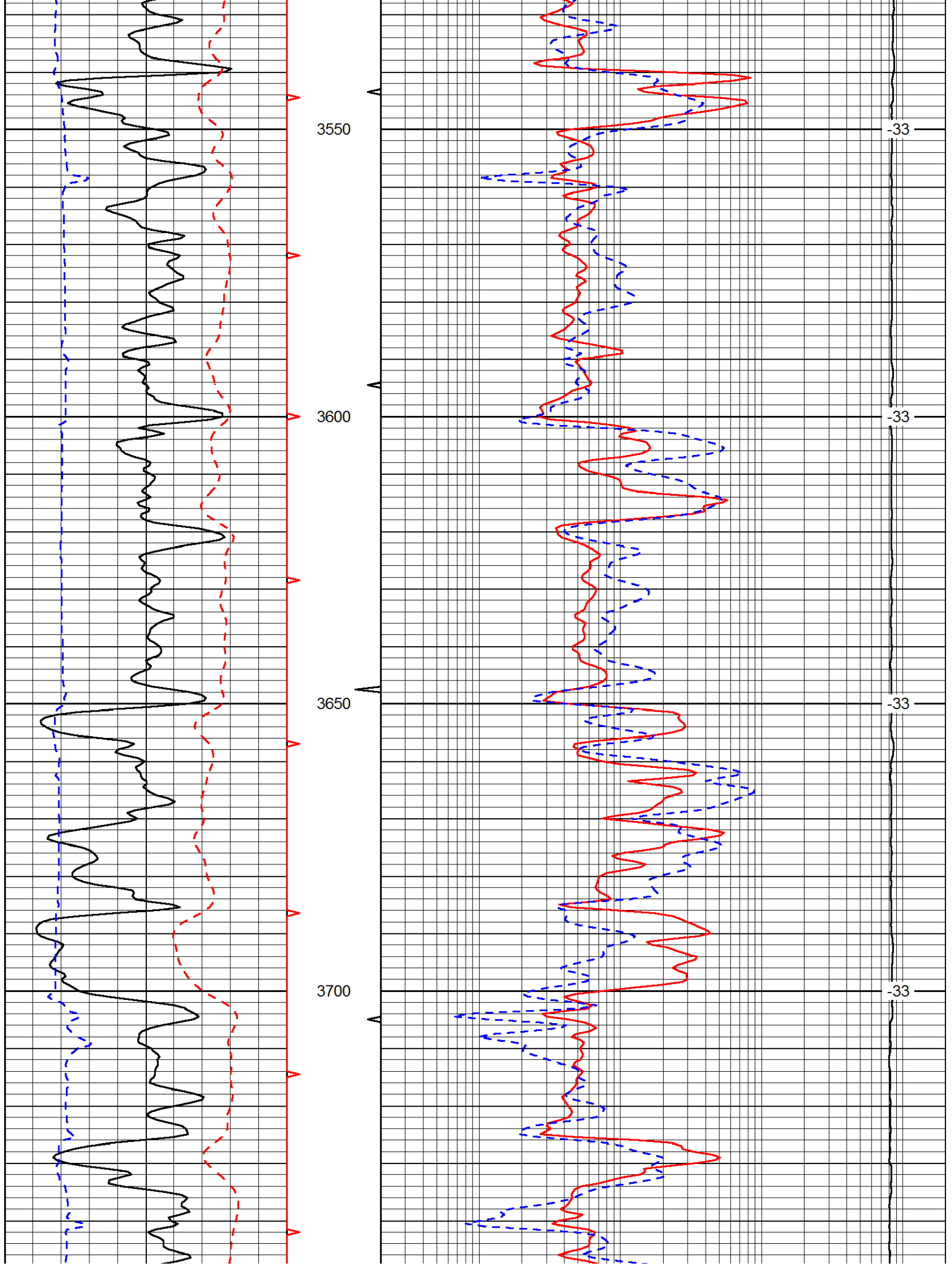


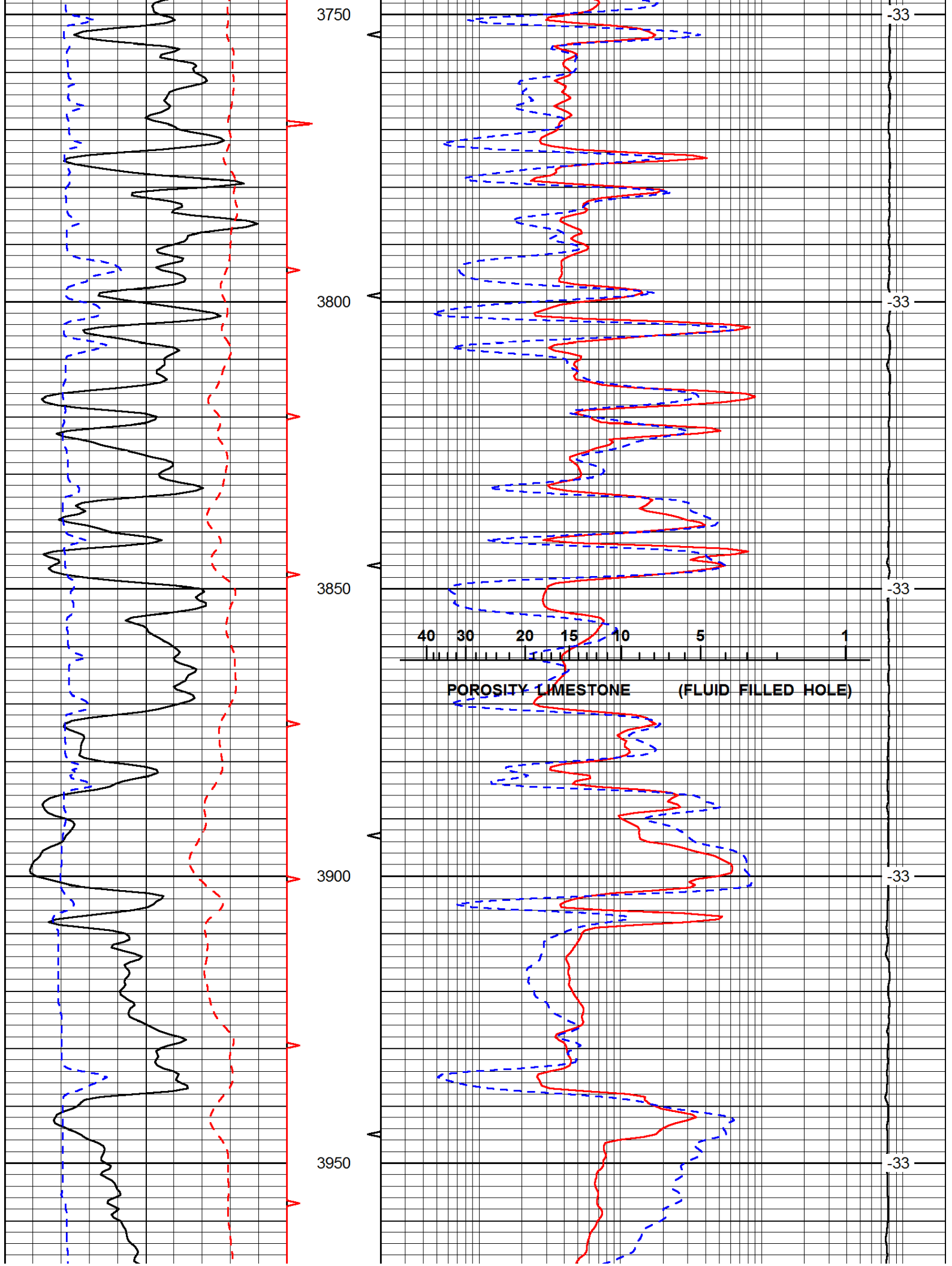
Database File: c:\warrior\data\berexco\_michael # 3-22\berexco\_michael\_3-22hd.db  
Dataset Pathname: rag/berrag  
Presentation Format: rag  
Dataset Creation: Fri Oct 04 07:11:38 2013  
Charted by: Depth in Feet scaled 1:240

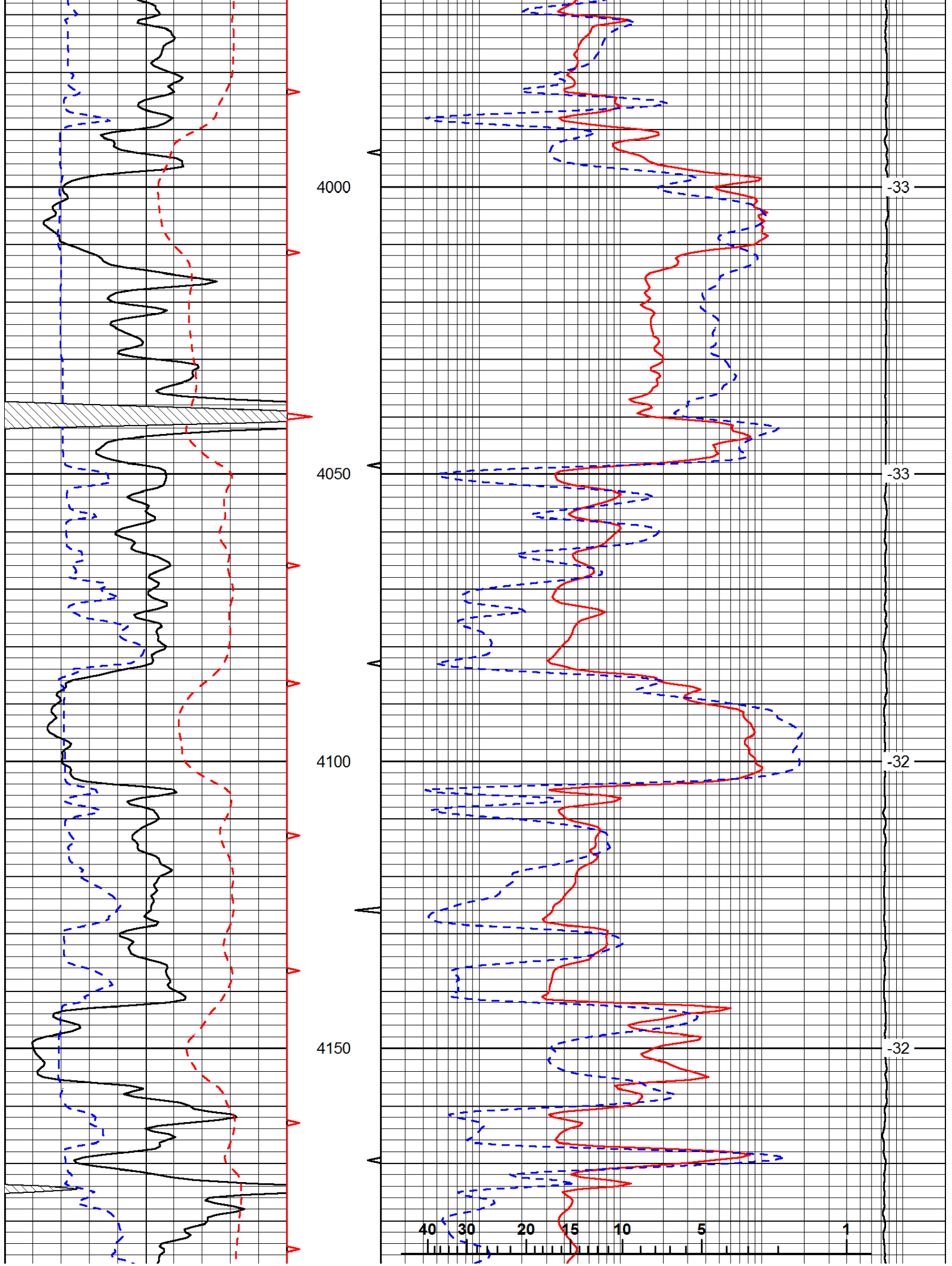


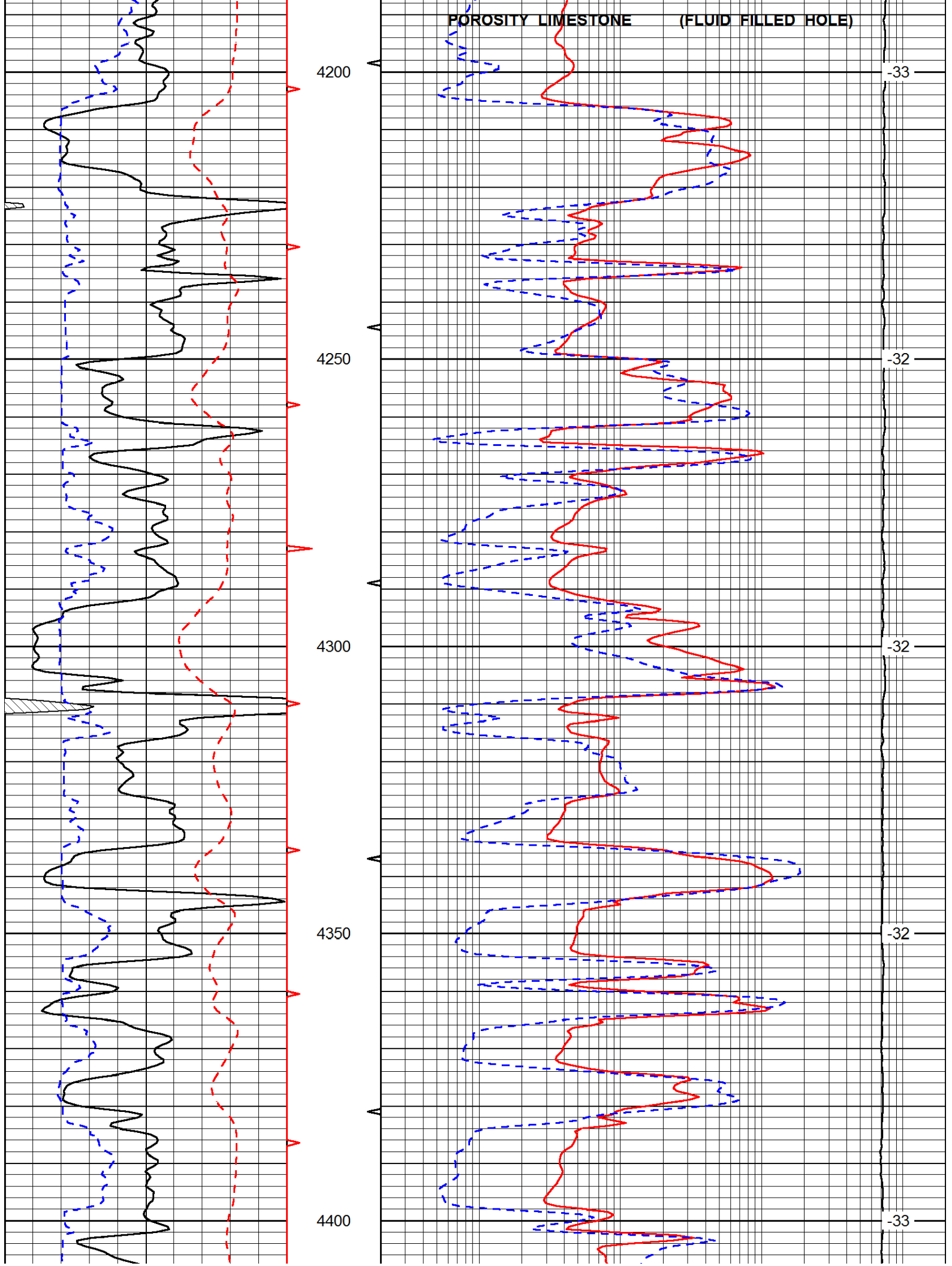
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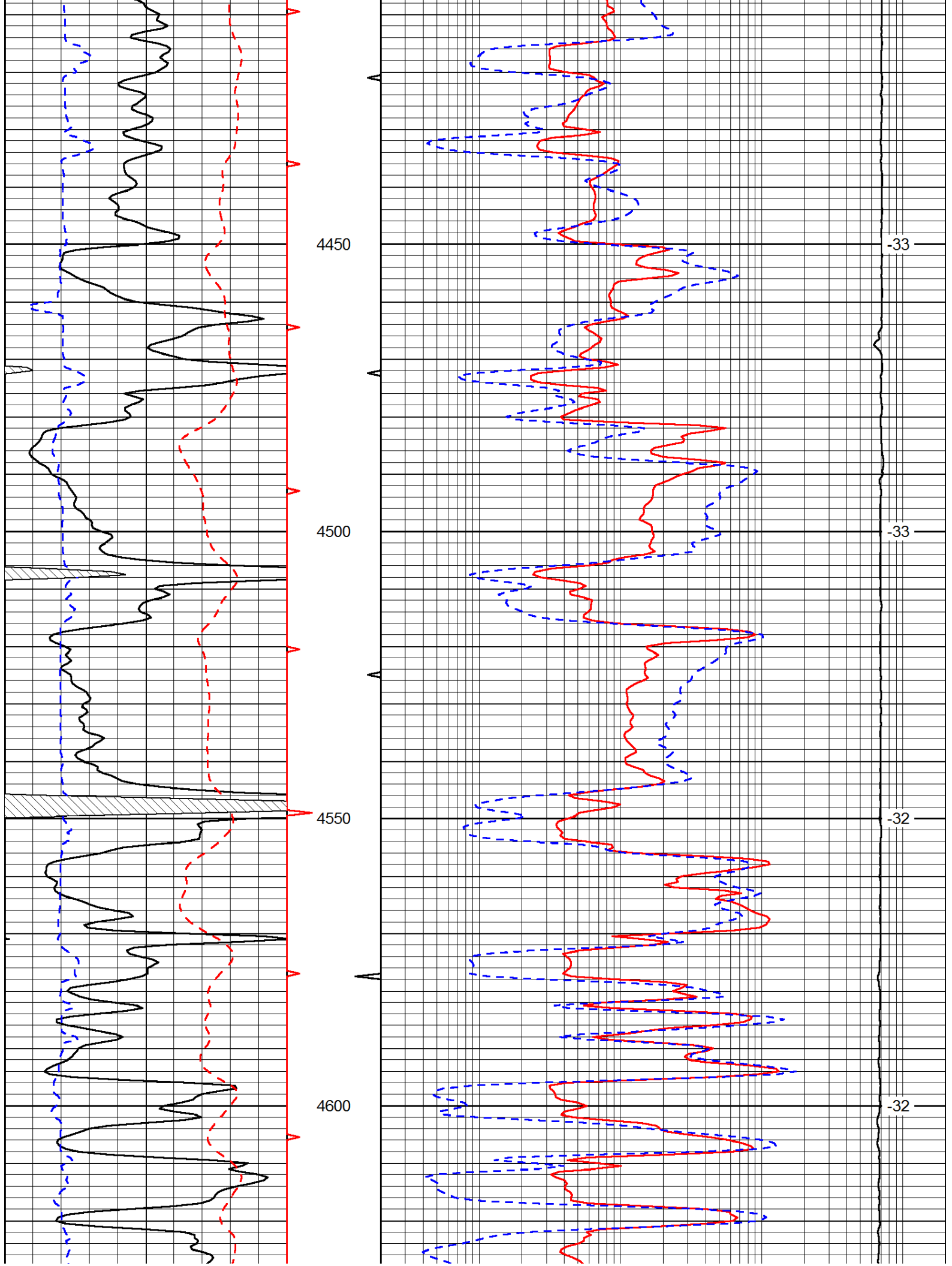




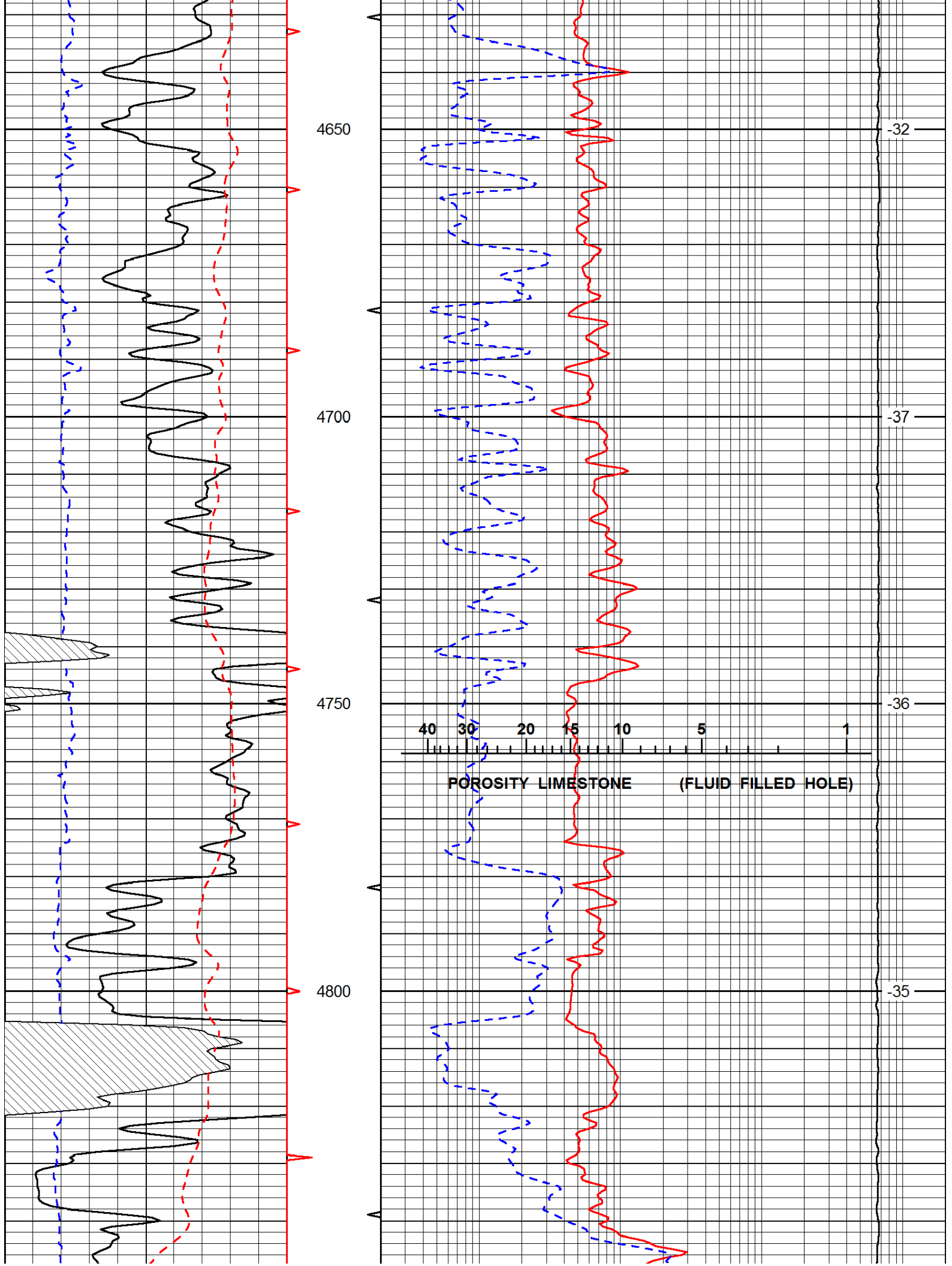


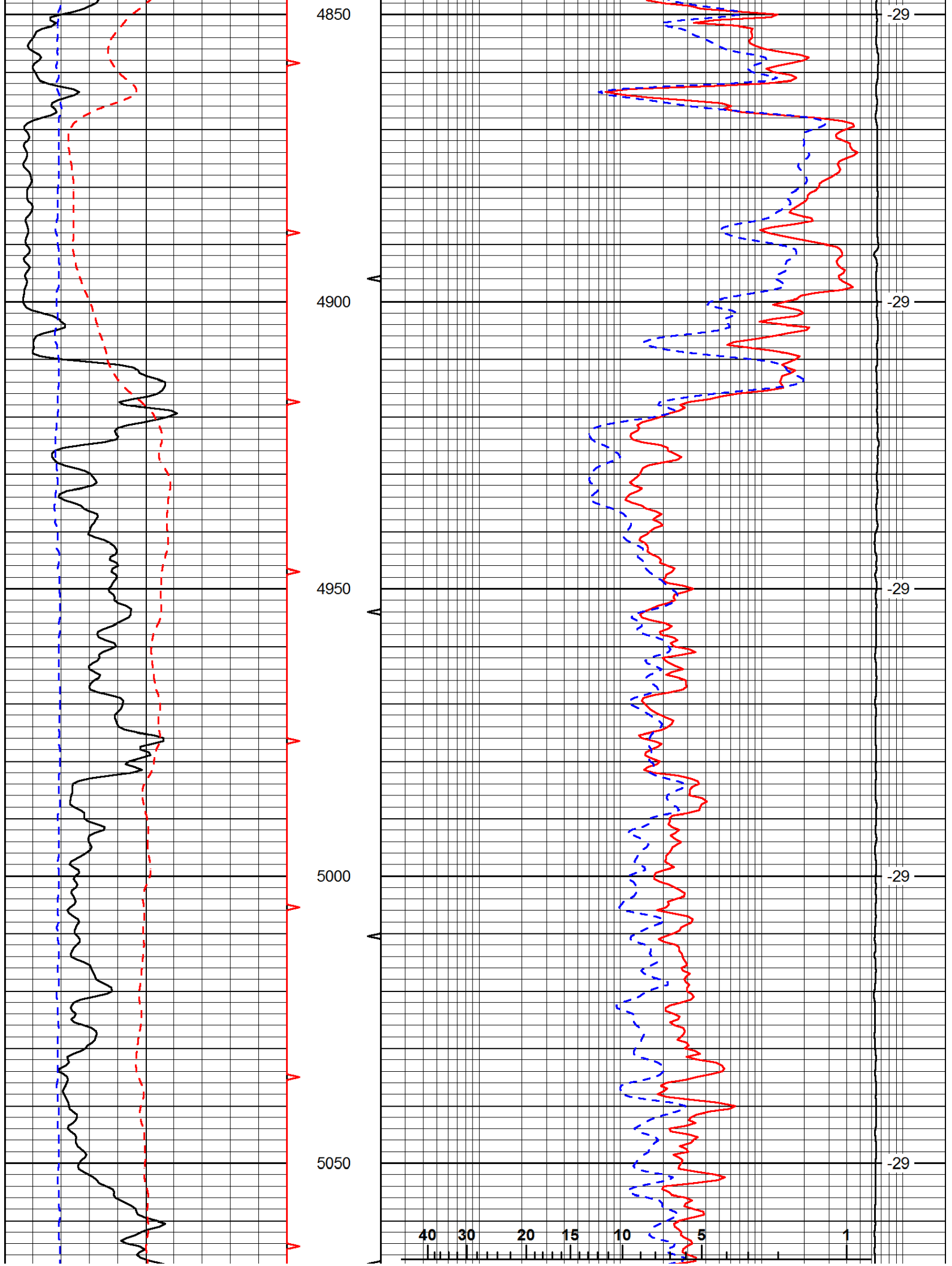


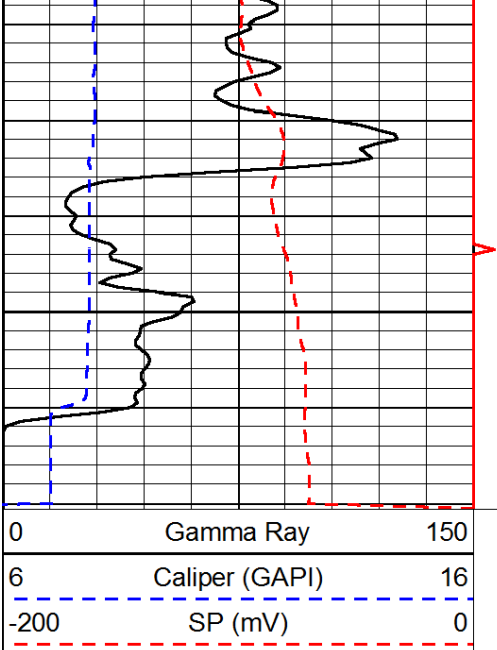




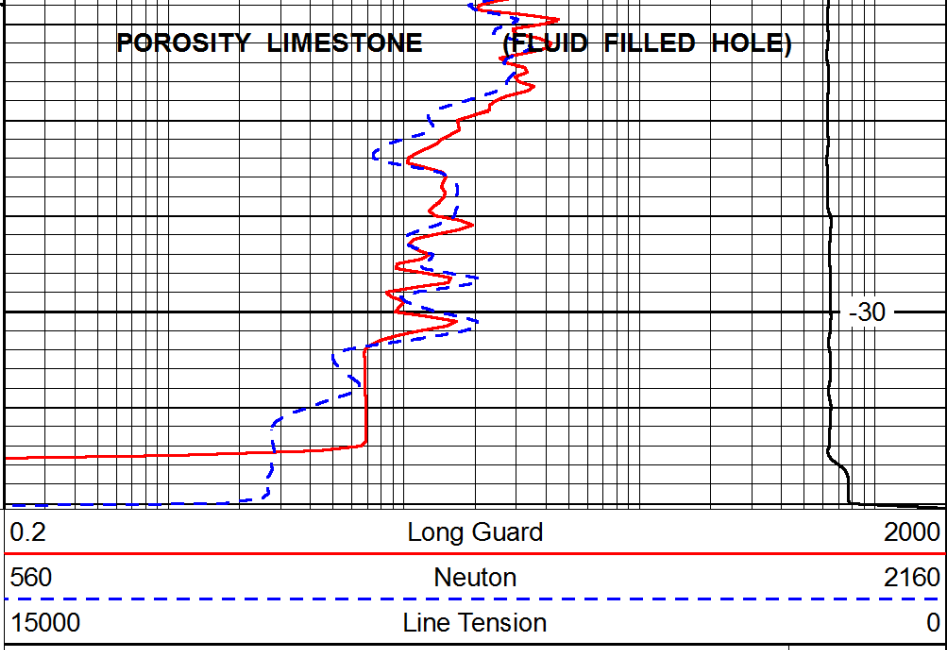








5100



LSPD