



# PIONEER

Pioneer Energy Services

## Dual Induction Log

|                        |                     |                         |                                      |
|------------------------|---------------------|-------------------------|--------------------------------------|
| API No.                | 15-035-23,733-00-01 |                         |                                      |
| Company                | Alton Oil, LLC      | Well                    | Godfrey #1                           |
| Field                  | Nauman Northeast    | County                  | Cowley                               |
| State                  | Kansas              | Location                | SW-NW-NE-SW<br>2160' FSL & 3810' FEL |
| Sec: 16                | Twp: 30S            | Rge: 5E                 | Other Services<br>CNL/CDL<br>MEL     |
| Permanent Datum        | Ground Level        | Elevation 1341          | K.B. 1349                            |
| Log Measured From      | Kelly Bushing       | 8 Ft. Above Perm. Datum | D.F. 1341                            |
| Drilling Measured From | Front Kelly Bushing |                         | G.L. 1341                            |
| Date                   | 11/15/2014          |                         |                                      |
| Run Number             | One                 |                         |                                      |
| Depth Driller          | 3221                |                         |                                      |
| Depth Logger           | 3219                |                         |                                      |
| Bottom Logged Interval | 3218                |                         |                                      |
| Top Log Interval       | 200                 |                         |                                      |
| Casing Driller         | 8.625 @ 217         |                         |                                      |
| Casing Logger          | 217                 |                         |                                      |
| Bit Size               | 7.875               |                         |                                      |
| Type Fluid in Hole     | Chemical            |                         |                                      |
| Salinity, ppm CL       | 9.000               |                         |                                      |
| Density / Viscosity    | 8.7 66              |                         |                                      |
| pH / Fluid Loss        | 9.0 16.0            |                         |                                      |
| Source of Sample       | Flowline            |                         |                                      |
| Rm @ Meas. Temp        | .27 @ 46            |                         |                                      |
| Rmf @ Meas. Temp       | .20 @ 46            |                         |                                      |
| Rmc @ Meas. Temp       | .36 @ 46            |                         |                                      |
| Source of Rmf / Rmc    | Charts              |                         |                                      |
| Rm @ BHT               | .11 @ 108           |                         |                                      |
| Operating Rig Time     | 2 1/2 Hours         |                         |                                      |
| Max Rec. Temp. F       | 108                 |                         |                                      |
| Equipment Number       | 91                  |                         |                                      |
| Location               | Hays                |                         |                                      |
| Recorded By            | J. Henrickson       |                         |                                      |
| Witnessed By           | Mike Pressnall      | Tom Blair               |                                      |

<<< Fold Here >>>

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

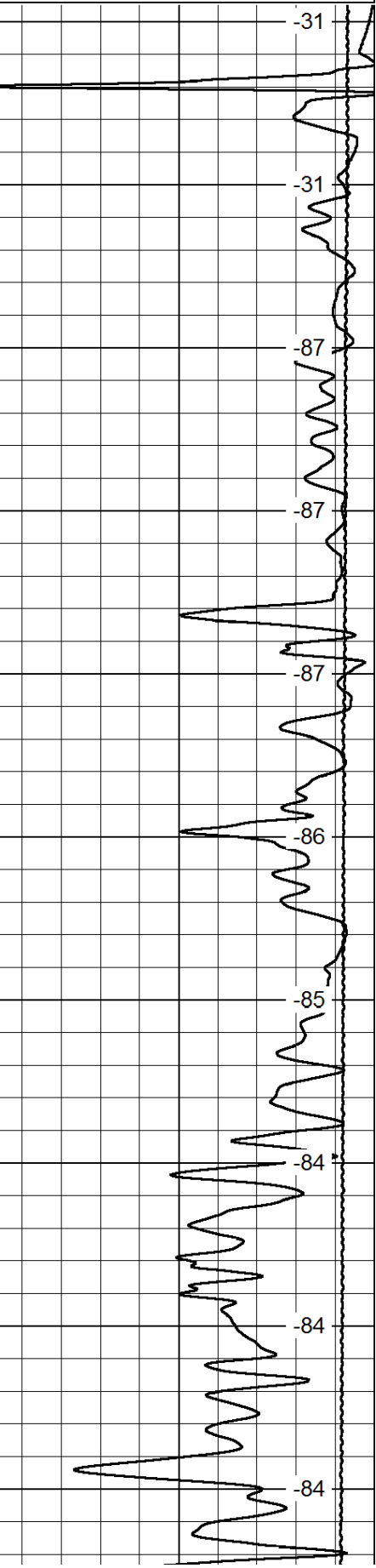
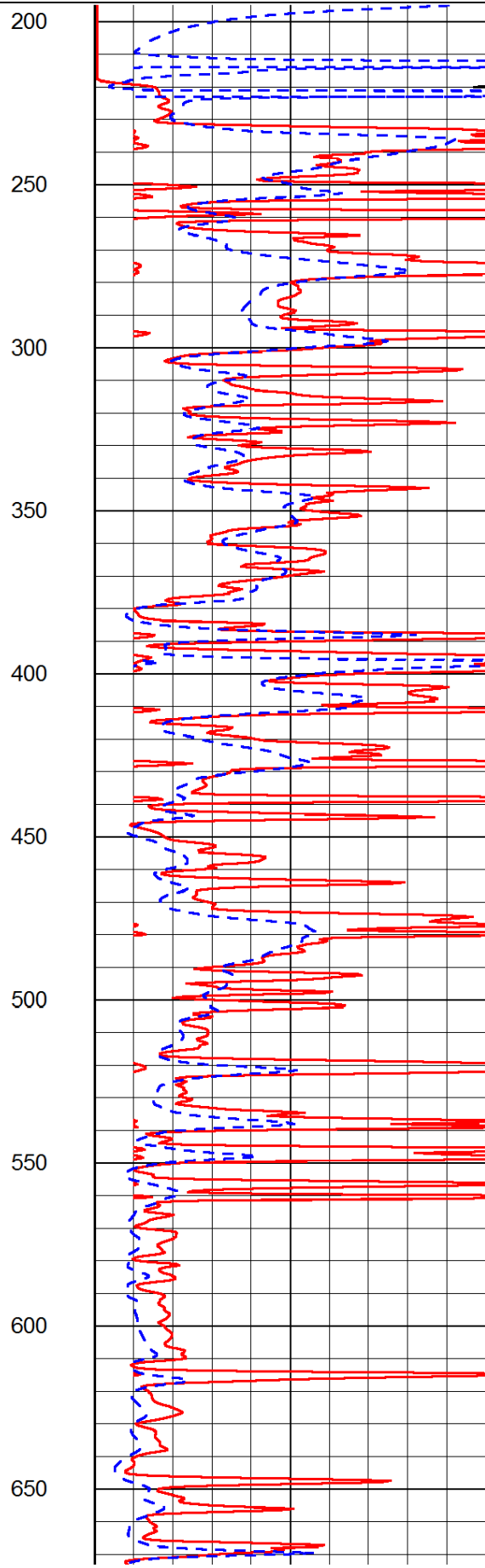
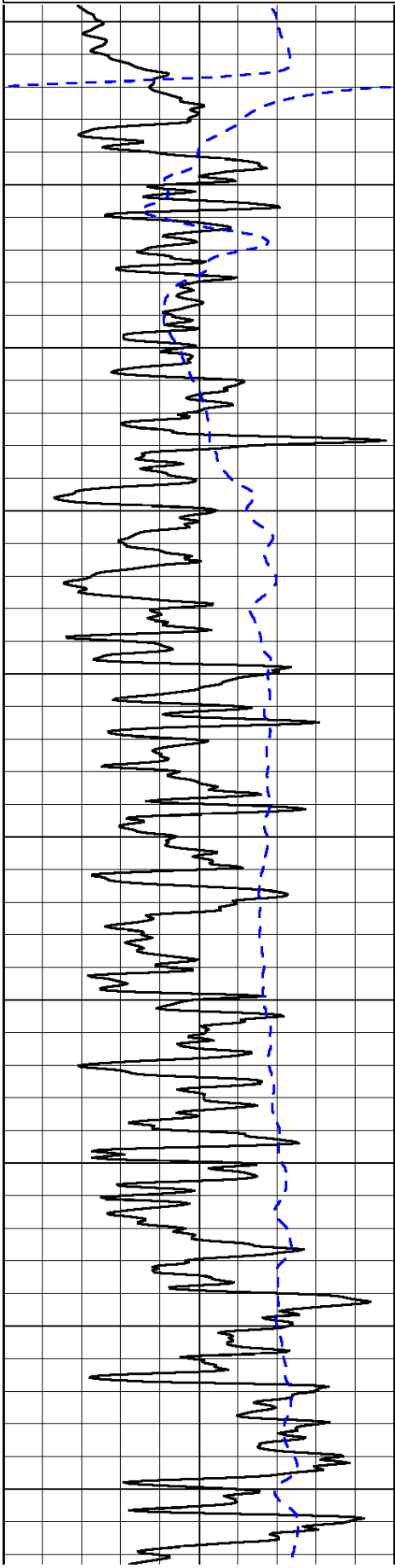
Rock Kansas  
6 1/4 East on HWY 2, North Into

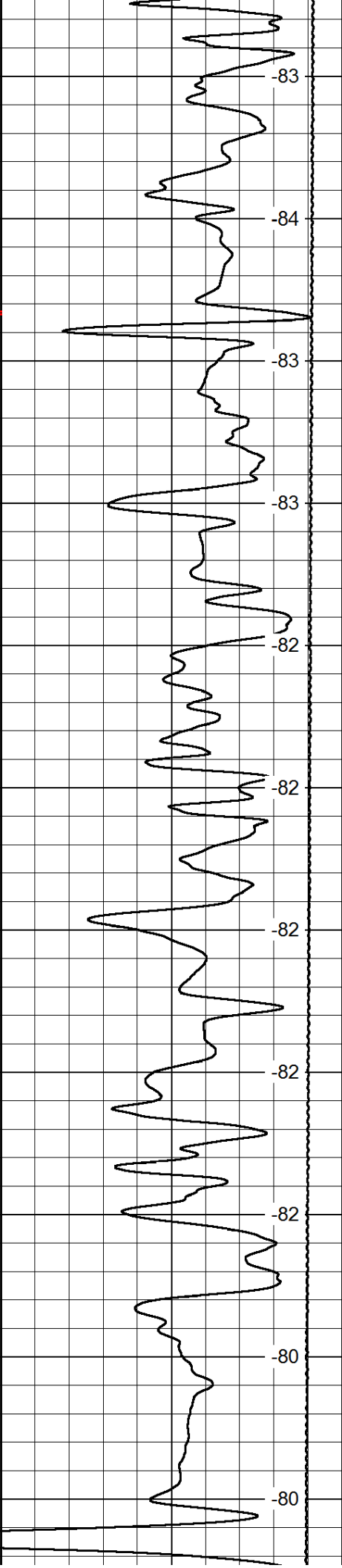
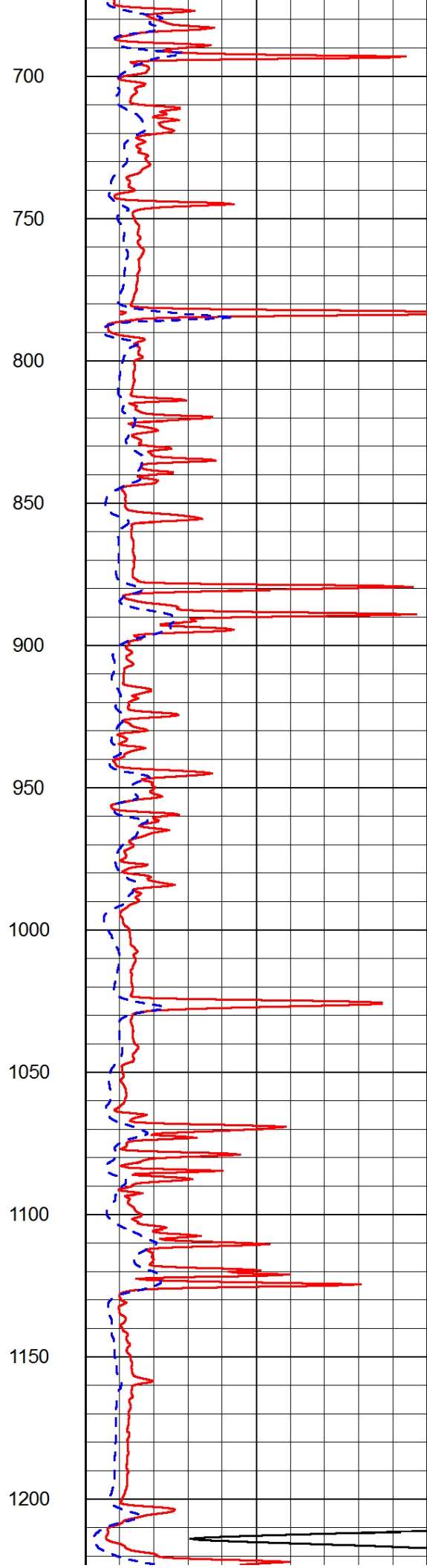
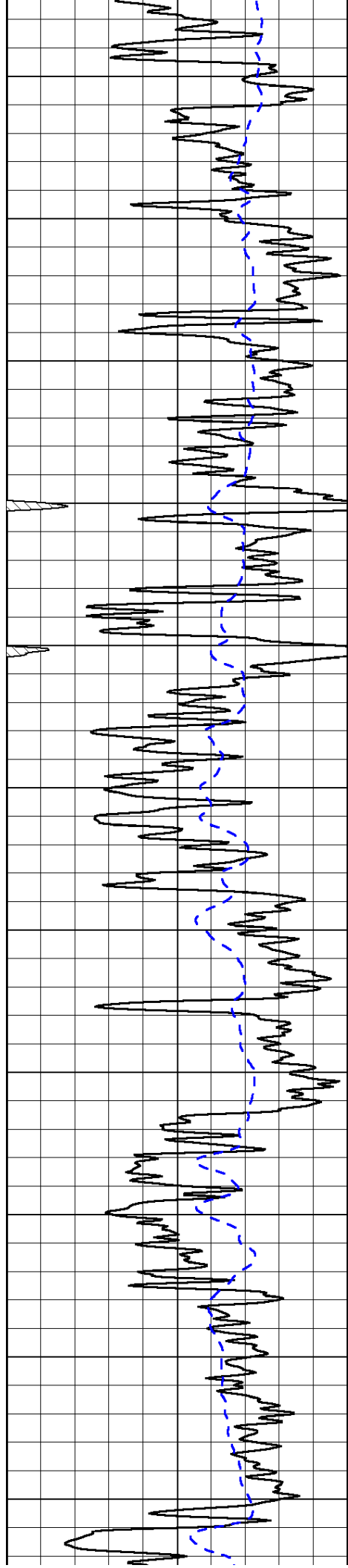
Database File: c:\warrior\data\alton oil\_godfrey #1\alton\_godfrey\_1hd.db  
Dataset Pathname: DIL\altonall  
Presentation Format: dil2in  
Dataset Creation: Sat Nov 15 03:35:33 2014  
Charted by: Depth in Feet scaled 1:600

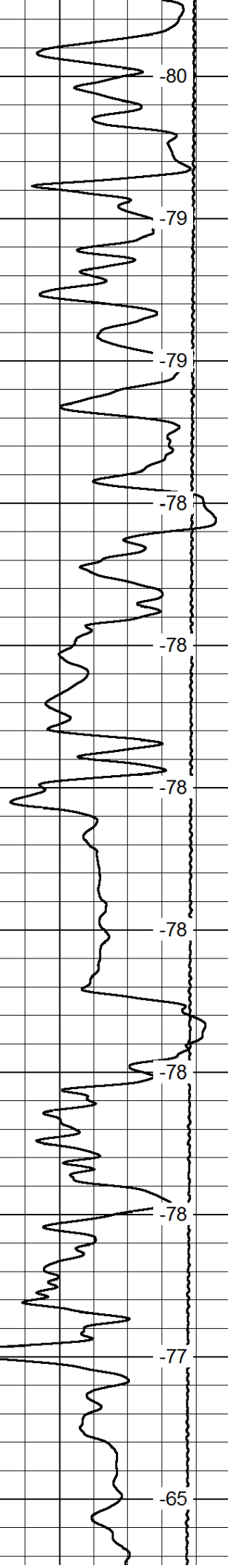
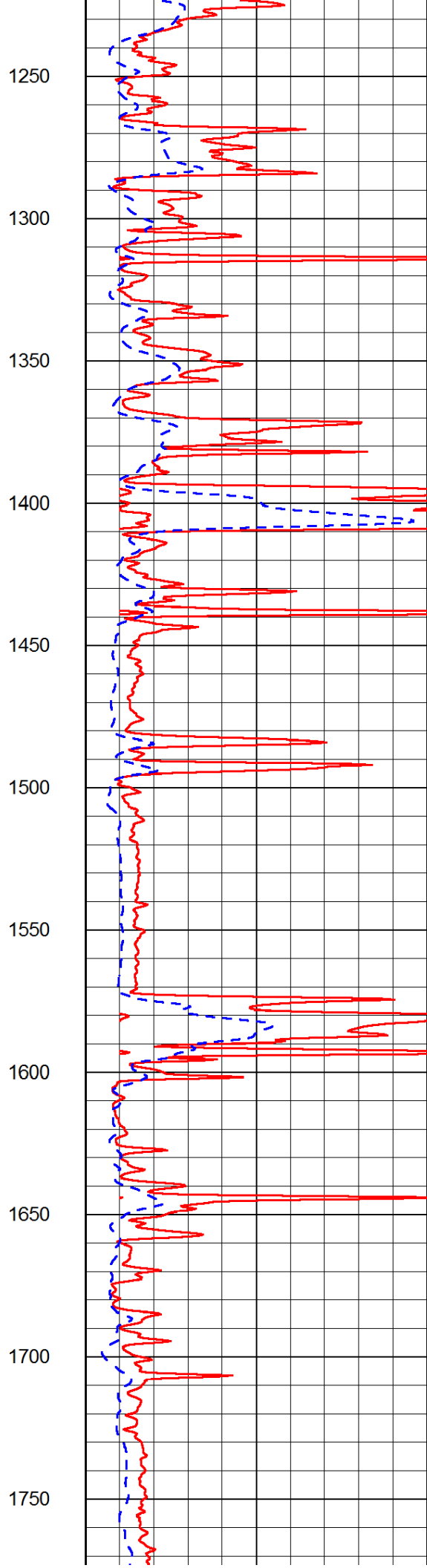
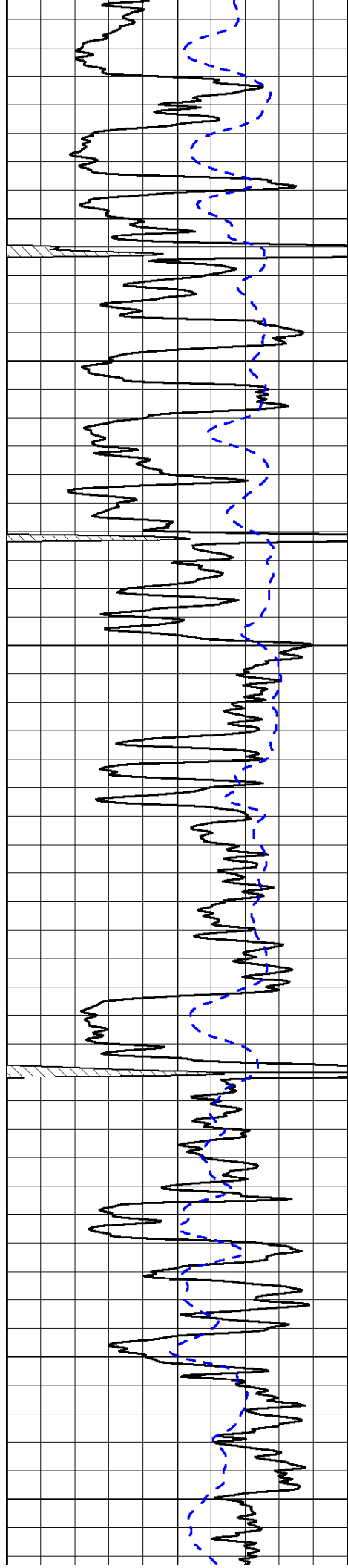
|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |

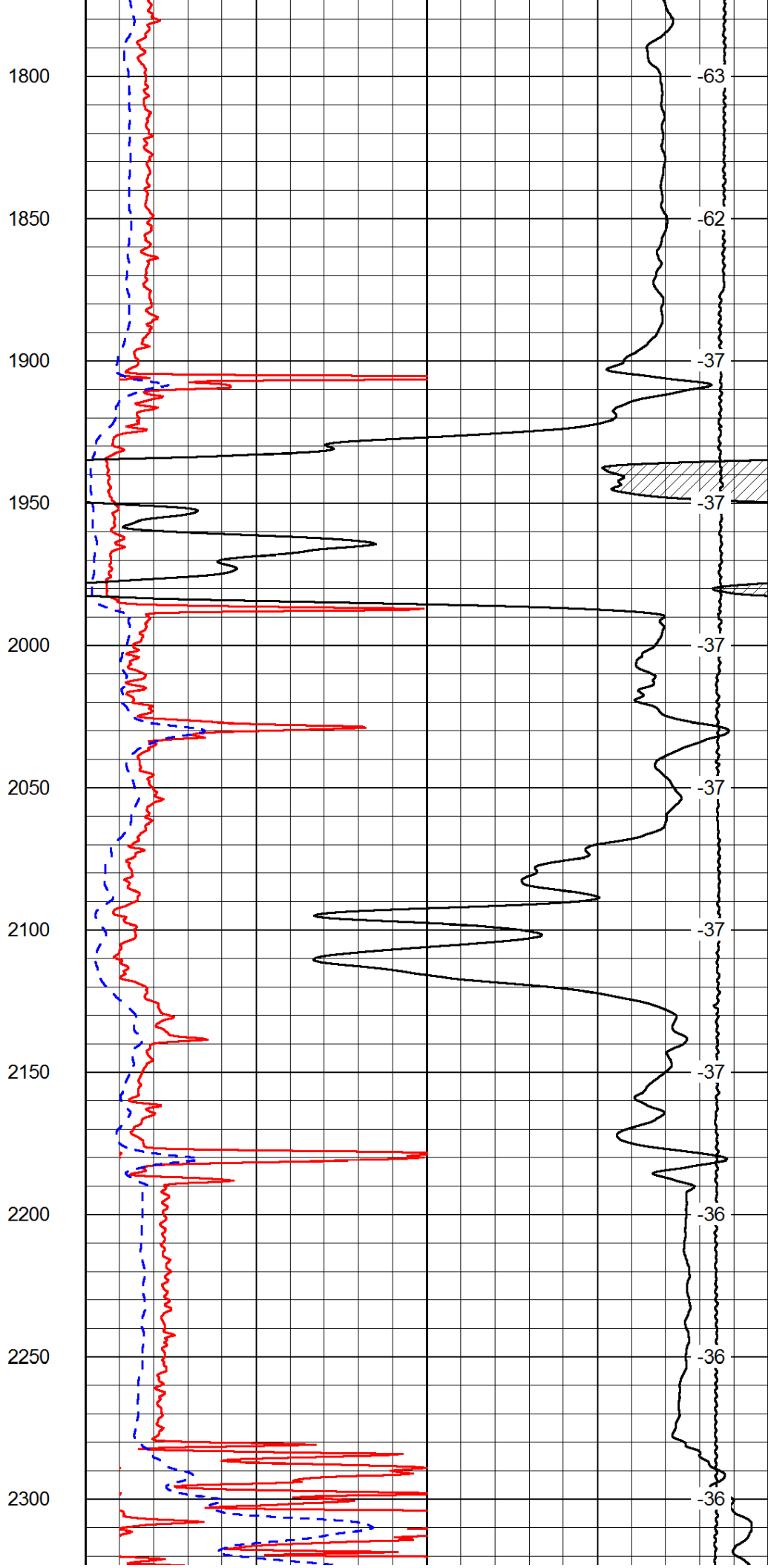
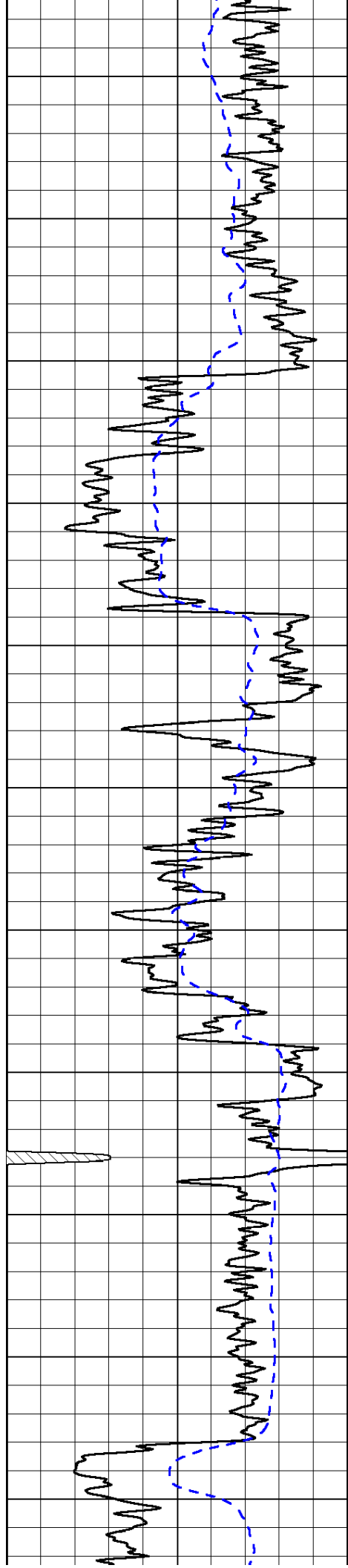
|       |                     |     |
|-------|---------------------|-----|
| 0     | Shallow Resistivity | 50  |
| 0     | Deep Resistivity    | 50  |
| 1000  | Conductivity        | 0   |
| 15000 | Line Tension        | 0   |
| 50    | Shallow Resistivity | 500 |
| 50    | Deep Resistivity    | 500 |

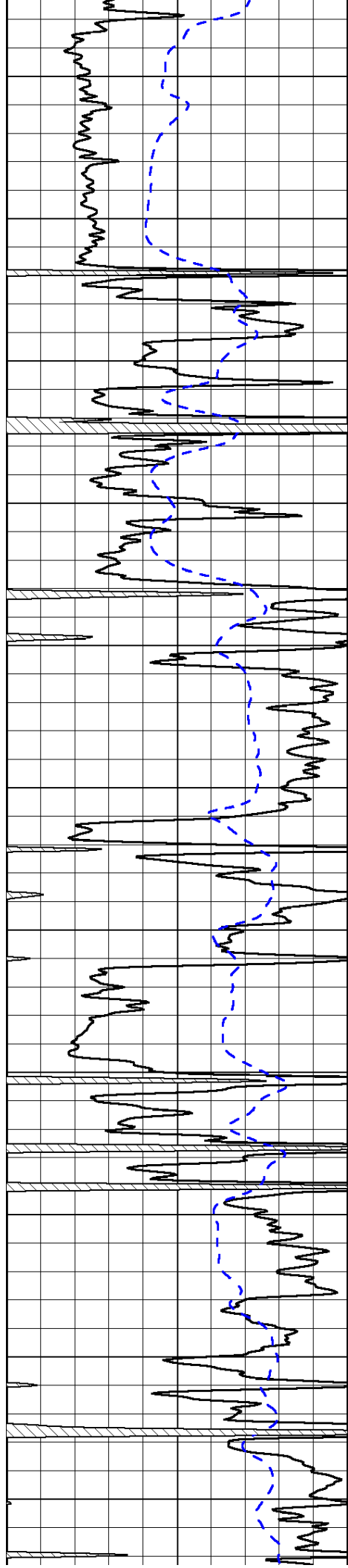
LSPD











2350

2400

2450

2500

2550

2600

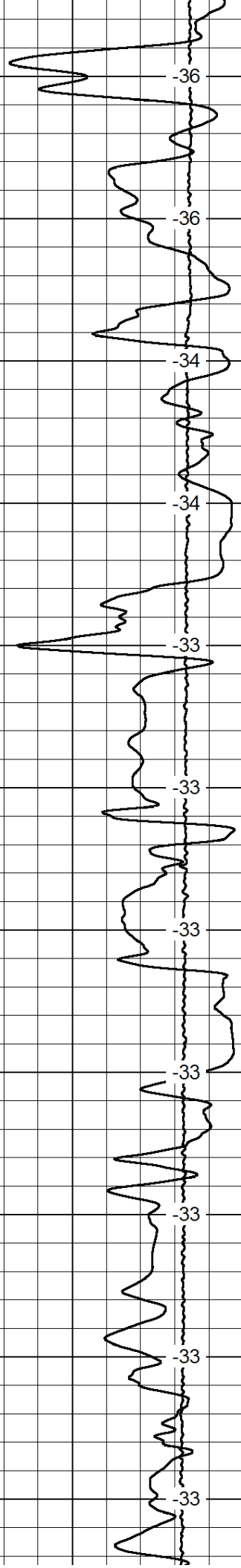
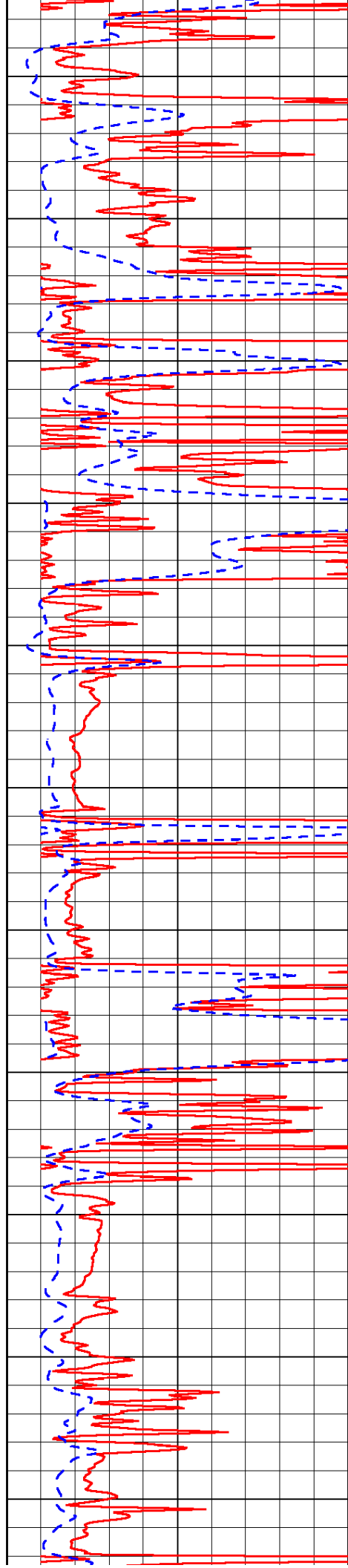
2650

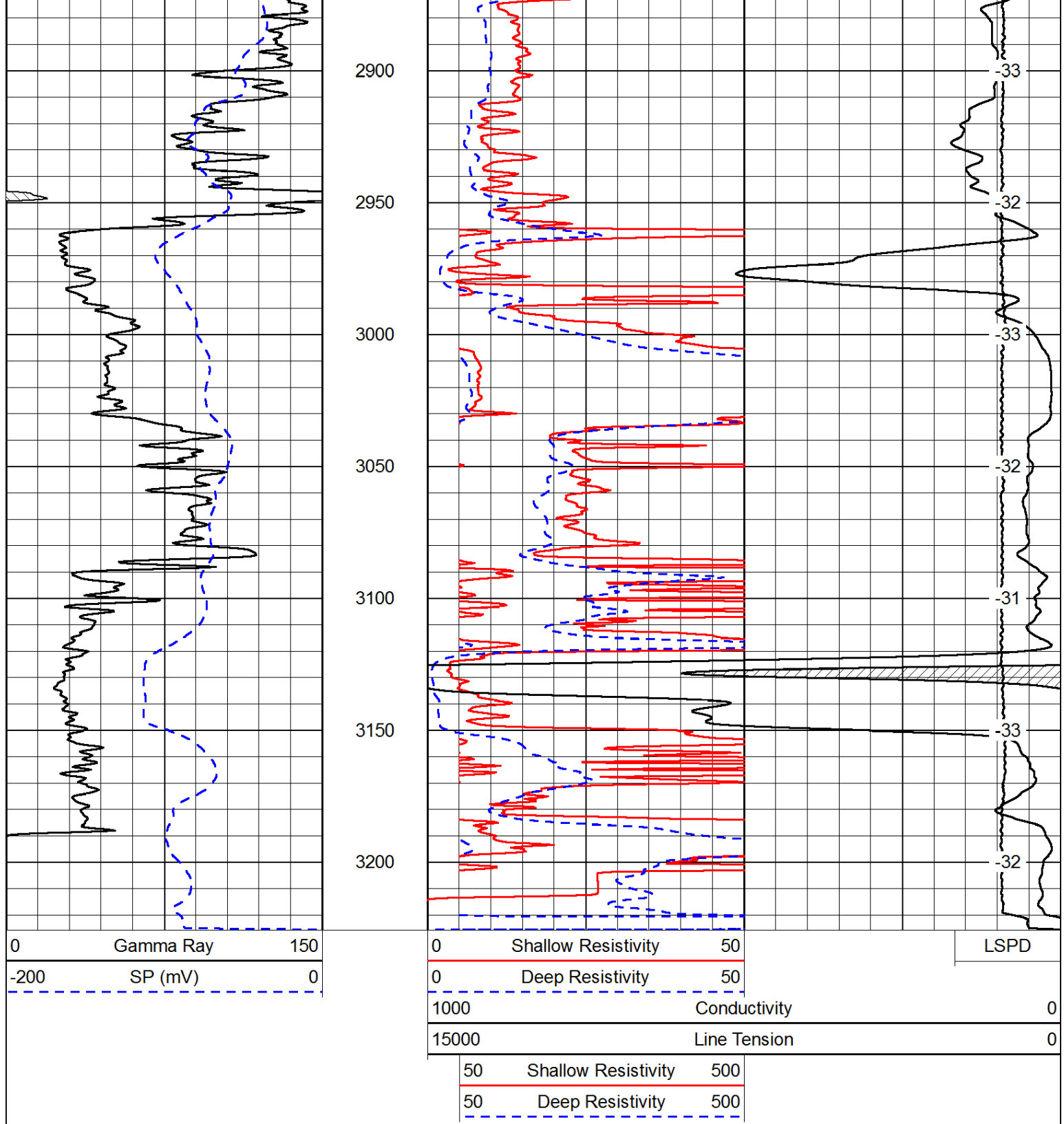
2700

2750

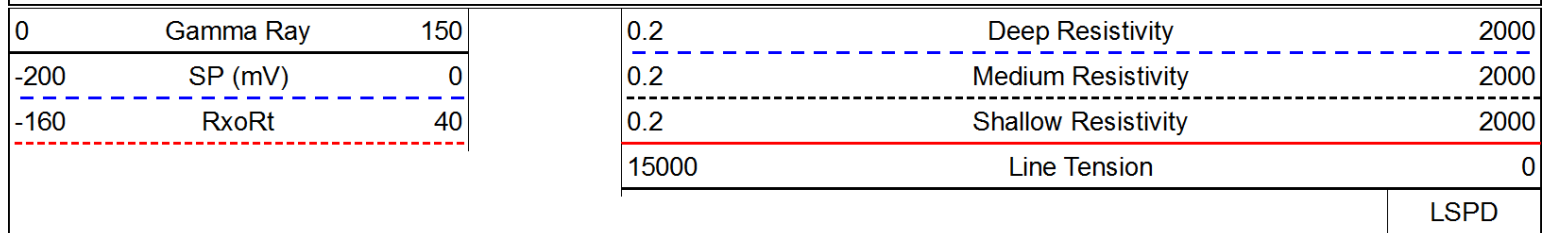
2800

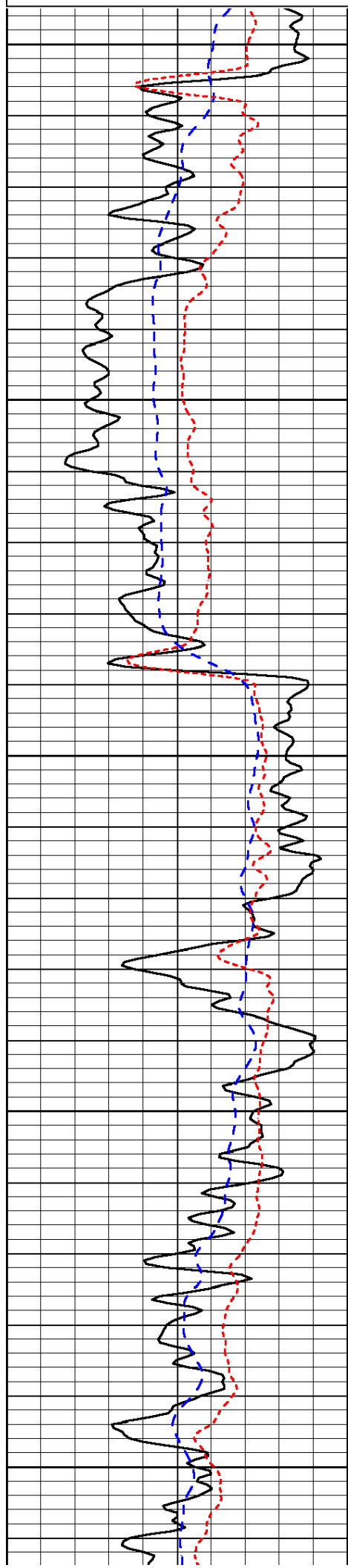
2850





Database File: c:\warrior\data\alton oil\_godfrey #1\alton\_godfrey\_1hd.db  
Dataset Pathname: DIL/altonall  
Presentation Format: dil  
Dataset Creation: Sat Nov 15 03:35:33 2014  
Charted by: Depth in Feet scaled 1:240





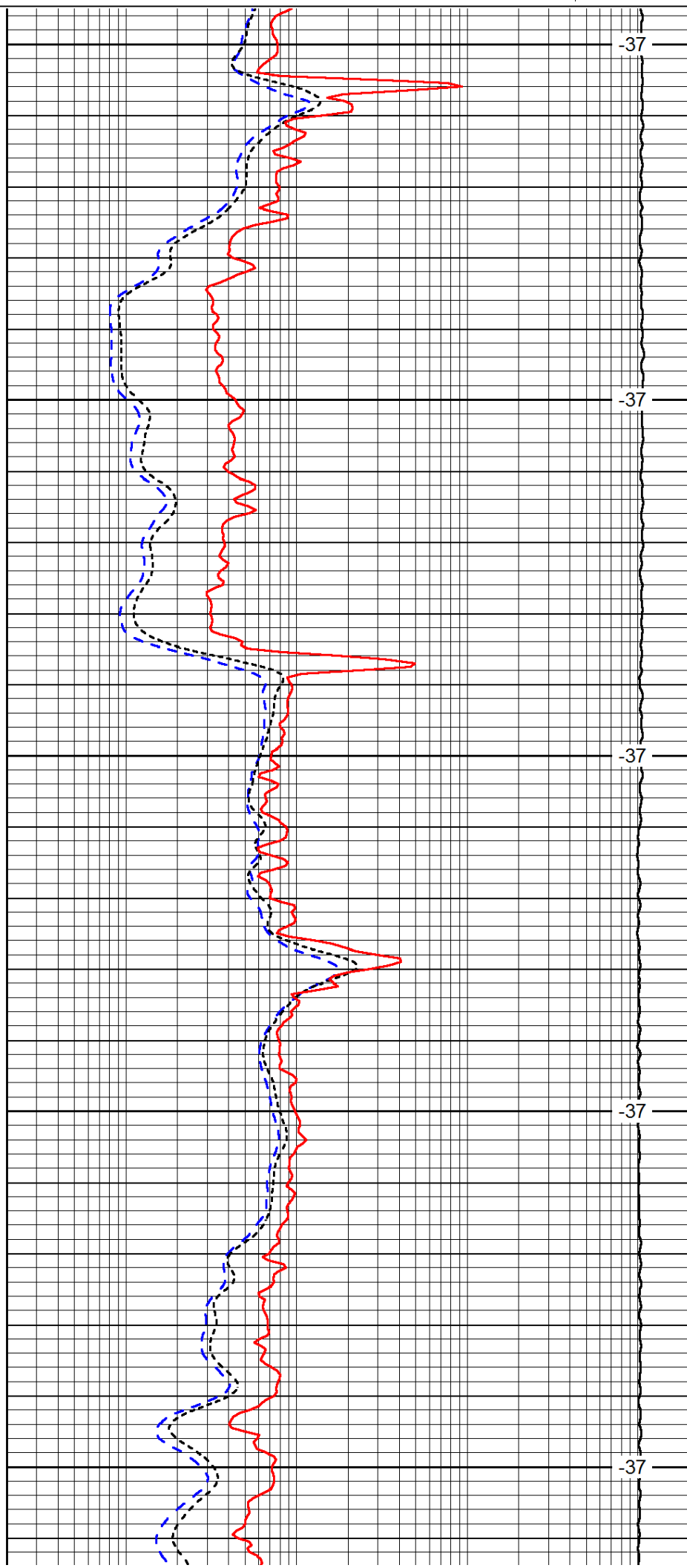
1900

1950

2000

2050

2100



-37

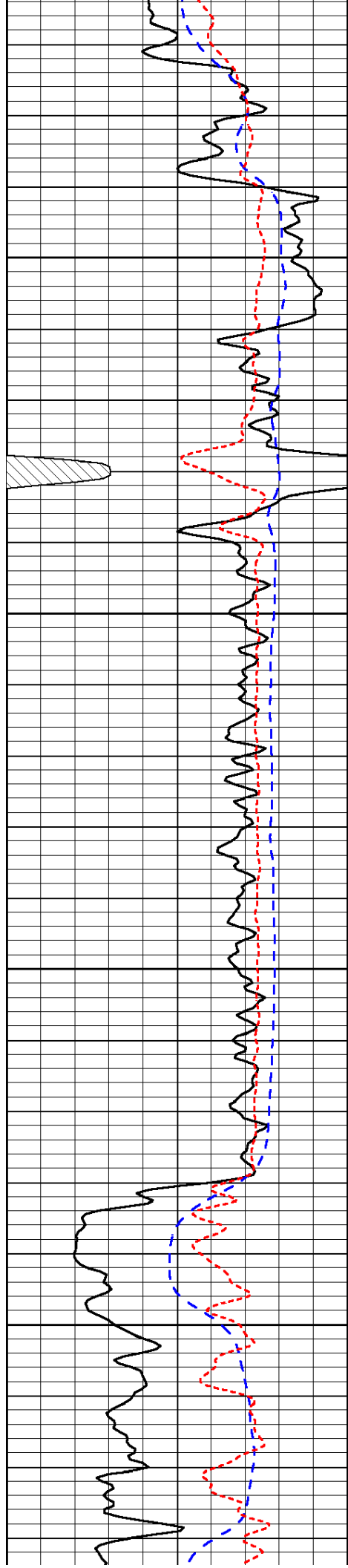
-37

-37

-37

-37



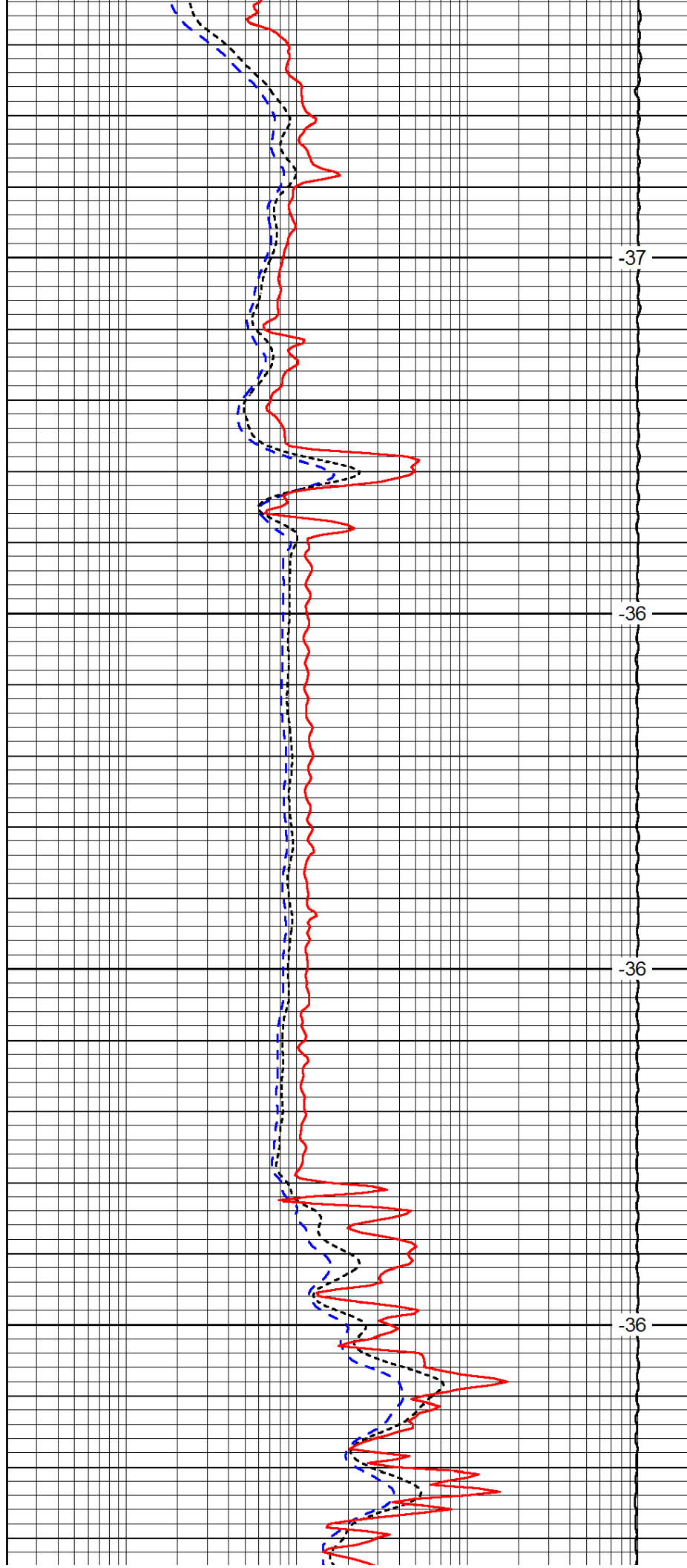


2150

2200

2250

2300

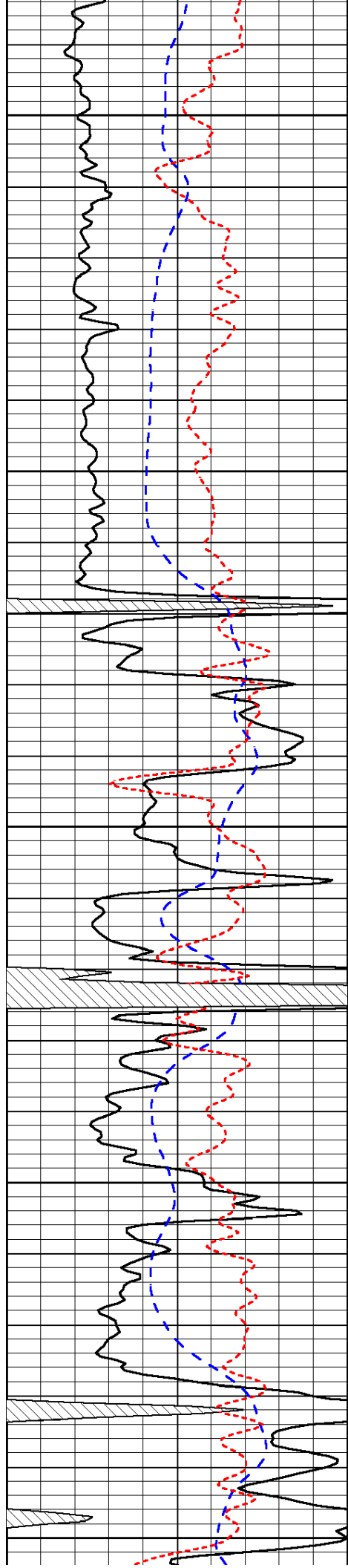


-37

-36

-36

-36



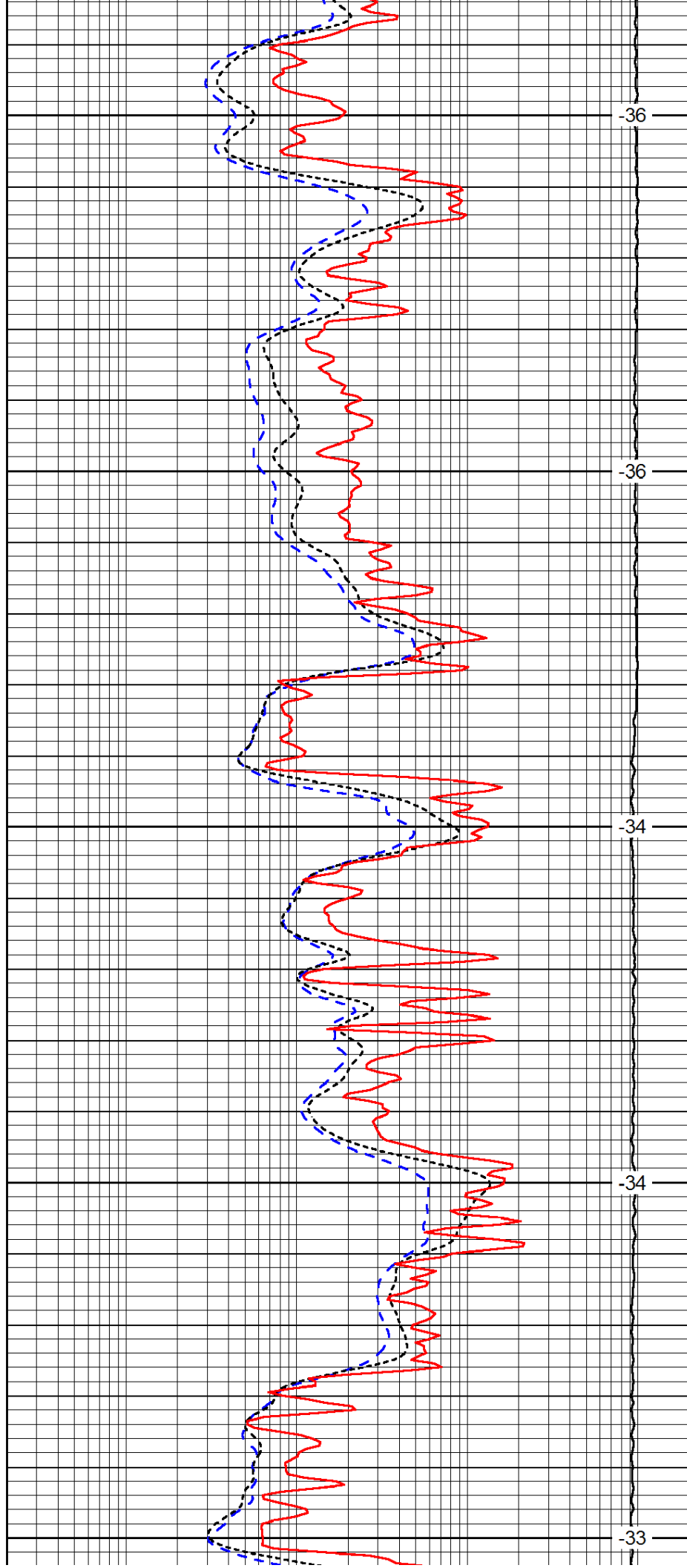
2350

2400

2450

2500

2550



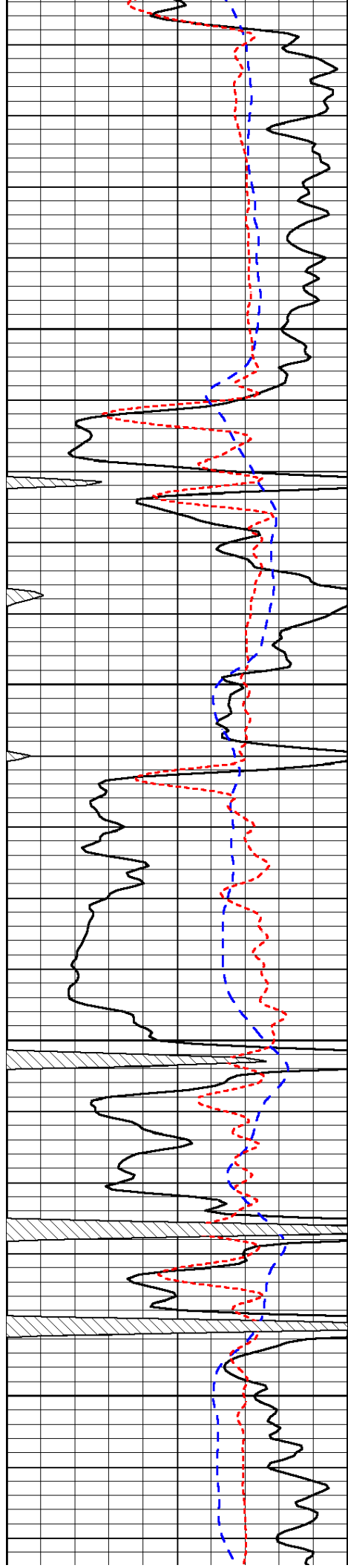
-36

-36

-34

-34

-33

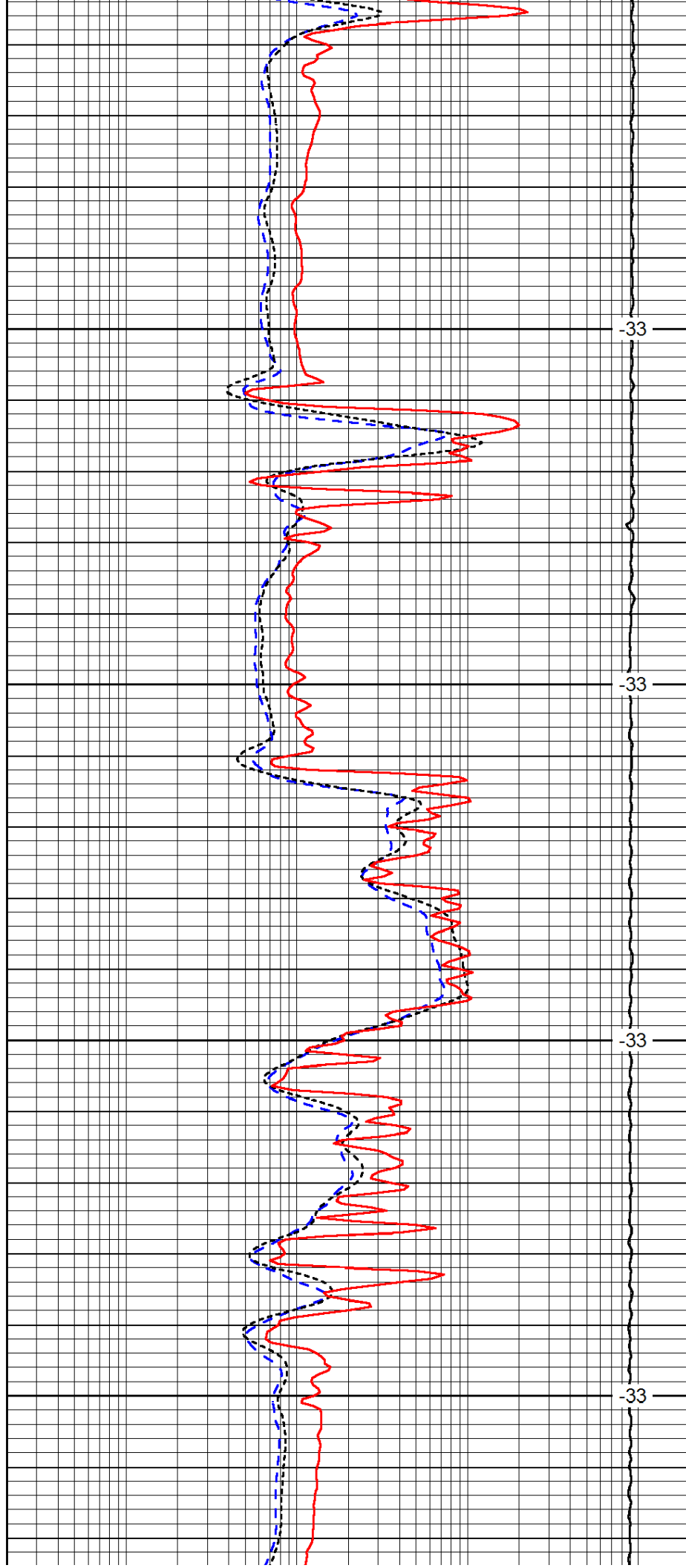


2600

2650

2700

2750

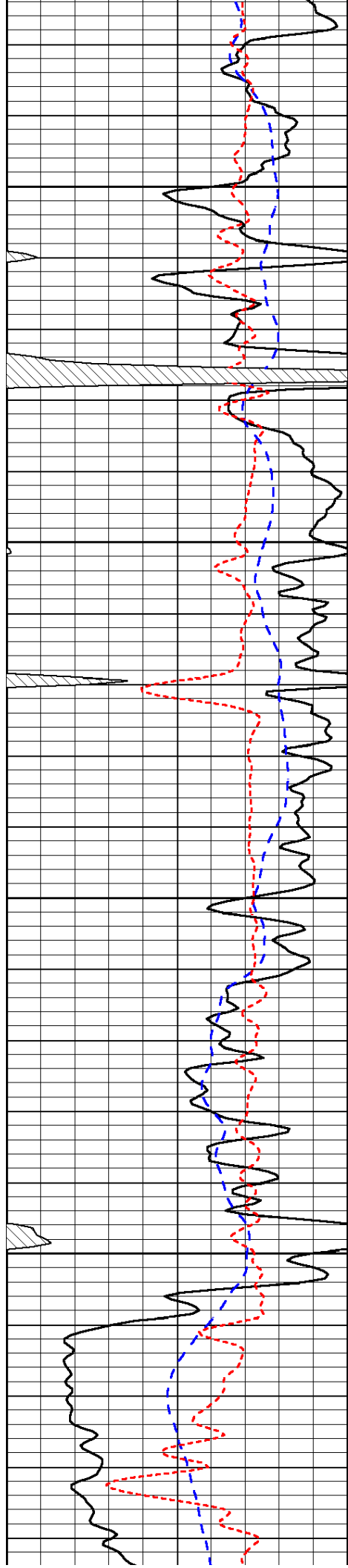


-33

-33

-33

-33

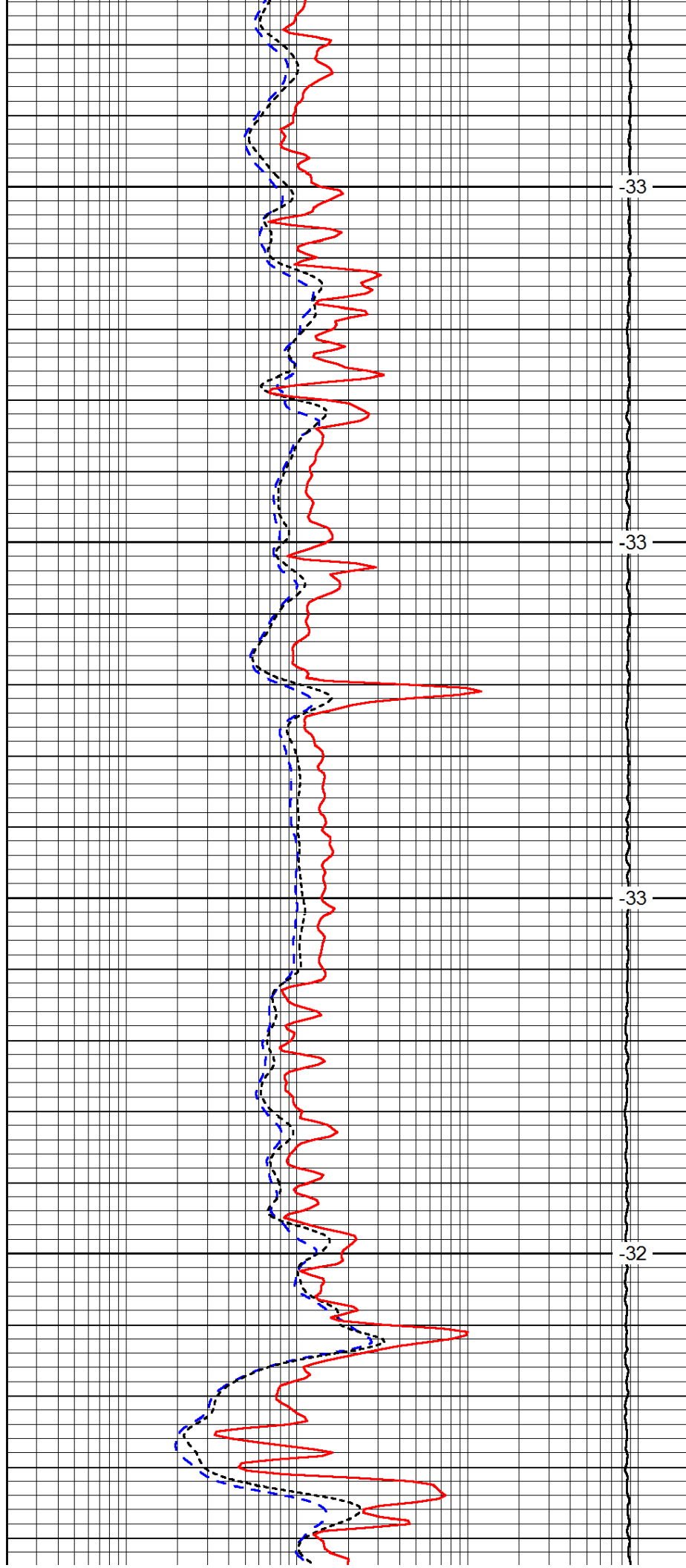


2800

2850

2900

2950

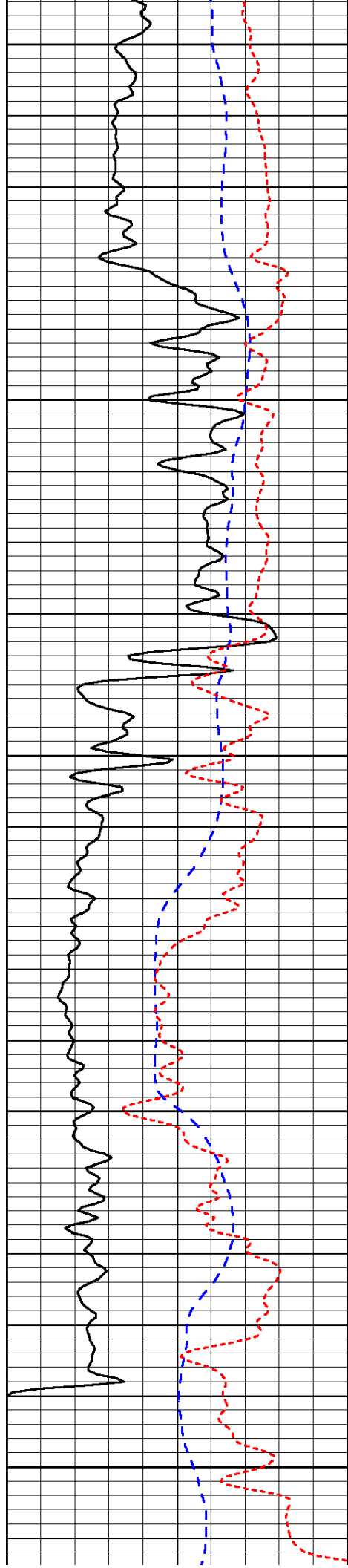


-33

-33

-33

-32



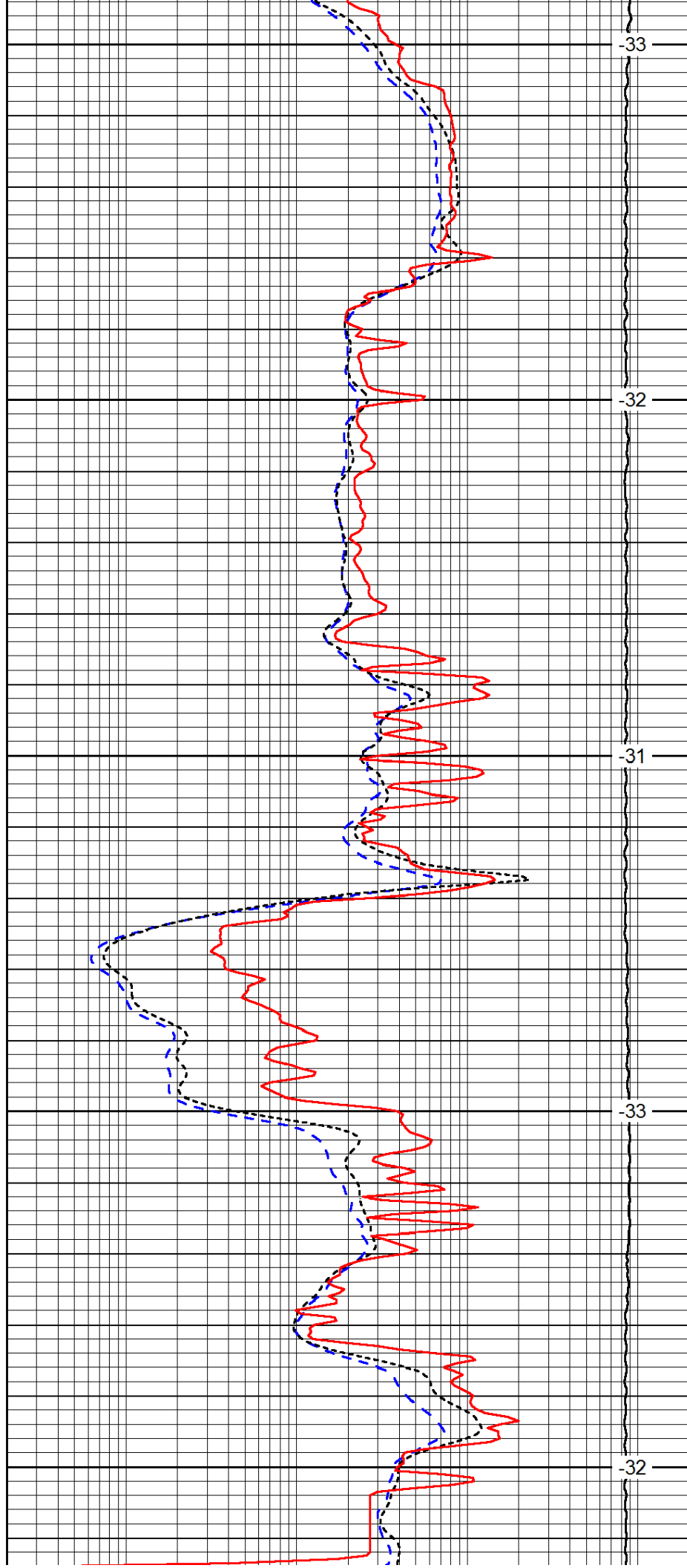
3000

3050

3100

3150

3200



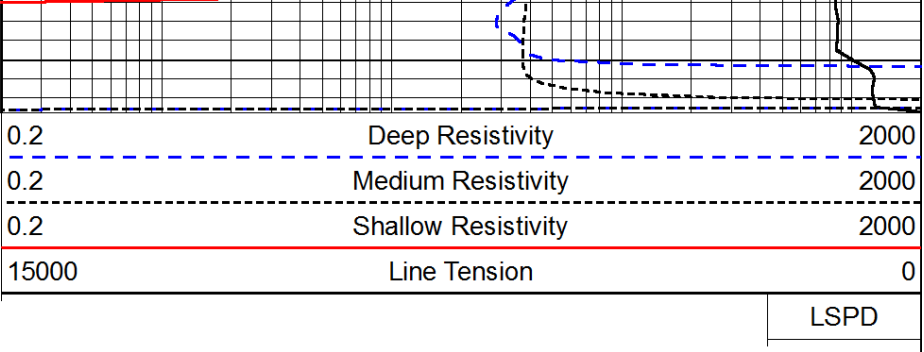
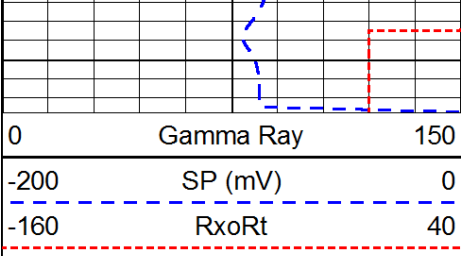
-33

-32

-31

-33

-32



LSPD