



## Dual Induction Log

Pioneer Energy Services

API No.

15-159-22,772-00-00

Company Primal Energy Oil & Gas, LLC

Well Skiles #28-1

Field Cow Creek Southeast

County Rice State Kansas

Location 150' FSL & 150' FEL

Sec: 28 Twp: 18S Rge: 9W

Other Services  
CNL/CDL  
MEL

Elevation

K.B. 1714  
D.F. 1706  
G.L. 1706

Permanent Datum Ground Level Elevation 1706  
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

Date 5/14/2014

Run Number One

Depth Driller 3290

Depth Logger 3275

Bottom Logged Interval 3274

Top Log Interval 300

Casing Driller 8.625 @ 328

Casing Logger 327

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 6.800

Density / Viscosity 9.1 43

pH / Fluid Loss 11.0 9.2

Source of Sample Flowline

Rm @ Meas. Temp .28 @ 57

Rmf @ Meas. Temp .21 @ 57

Rmc @ Meas. Temp .38 @ 57

Source of Rmf / Rmc Charts

Rm @ BHT .15 @ 109

Operating Rig Time 3 1/2 Hours

Max Rec. Temp. F 109

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Tim Hendrick

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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

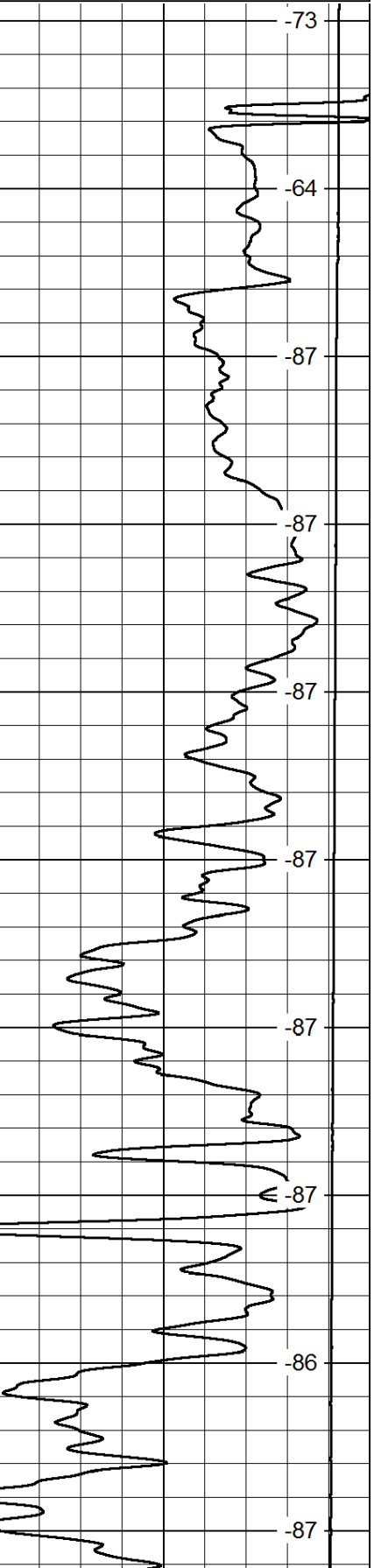
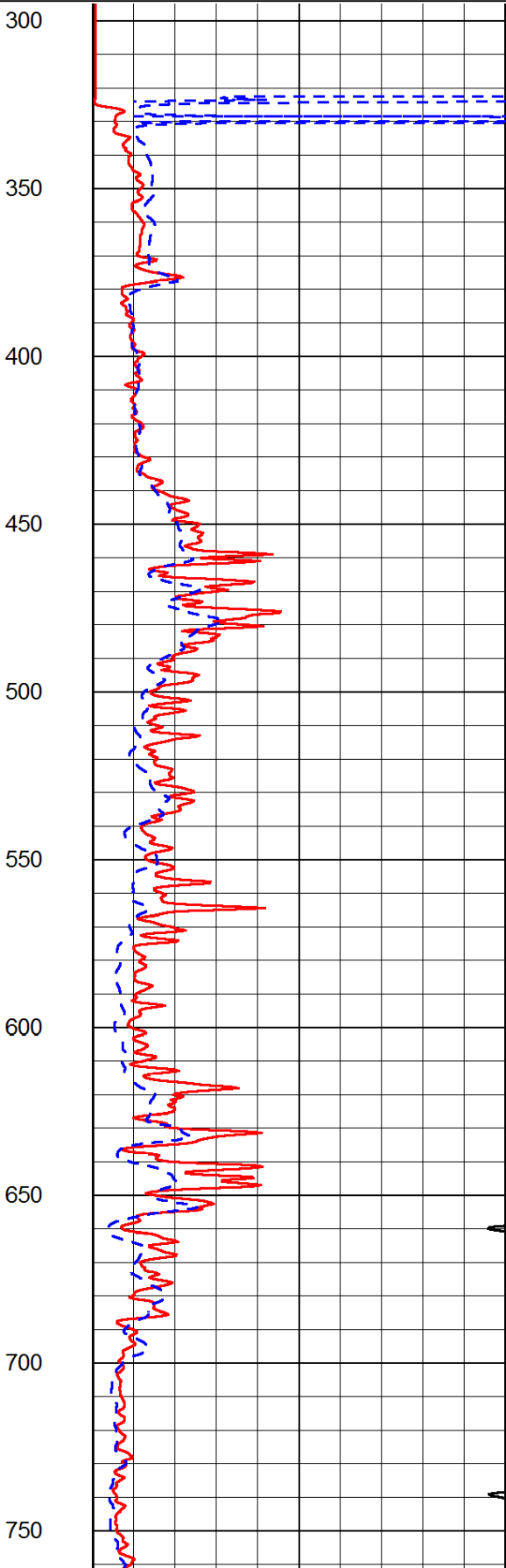
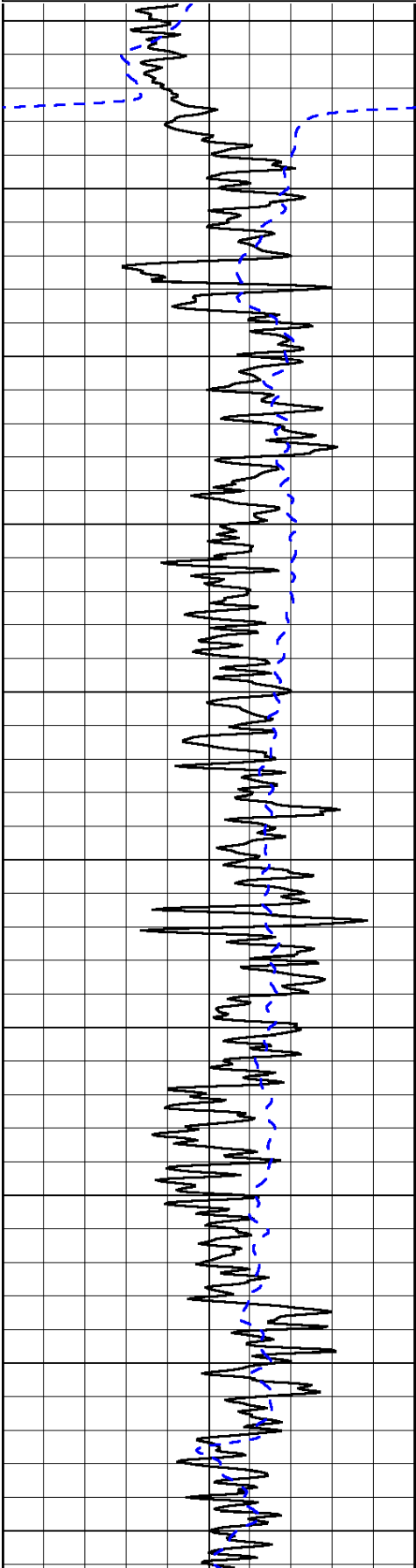
Thank you for using Pioneer Energy Services  
www.pioneerres.com  
785 625 3858

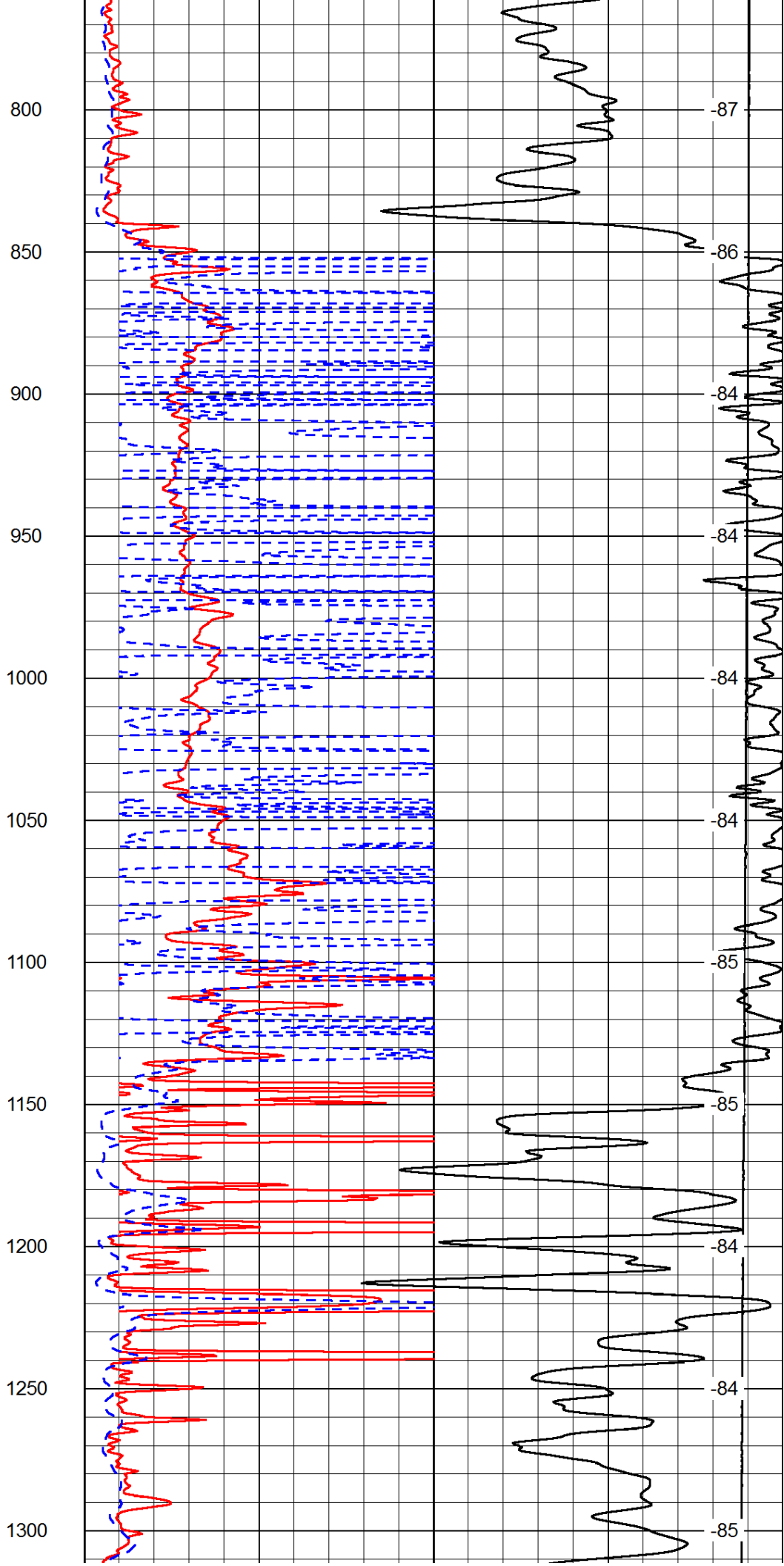
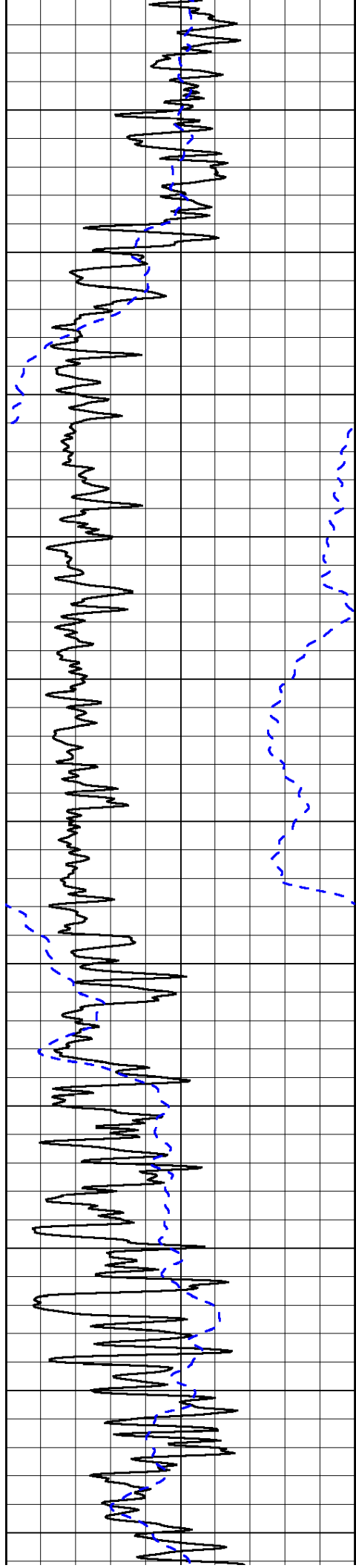
Chase KS, N to F Rd,  
2 E, NW Into

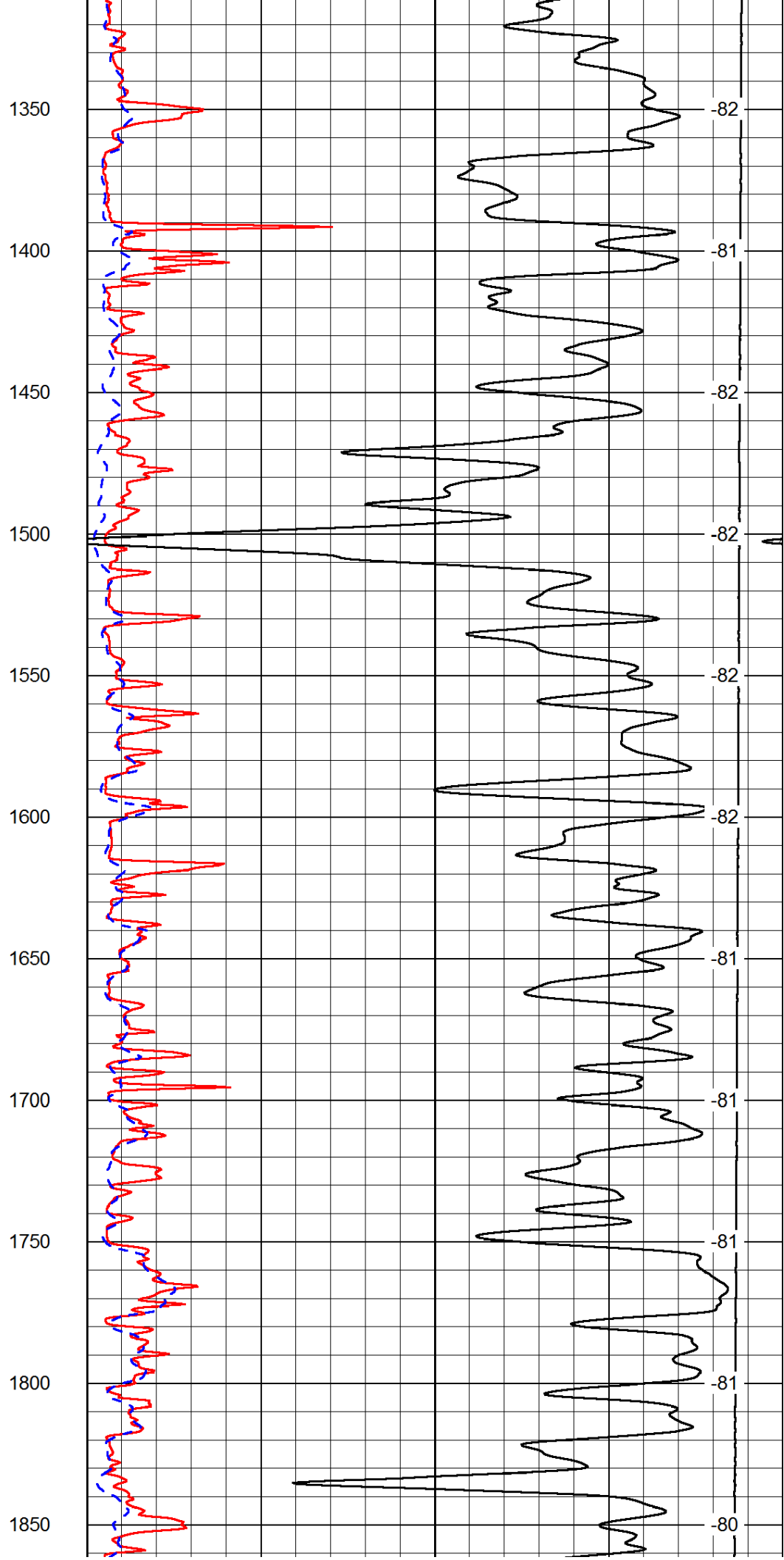
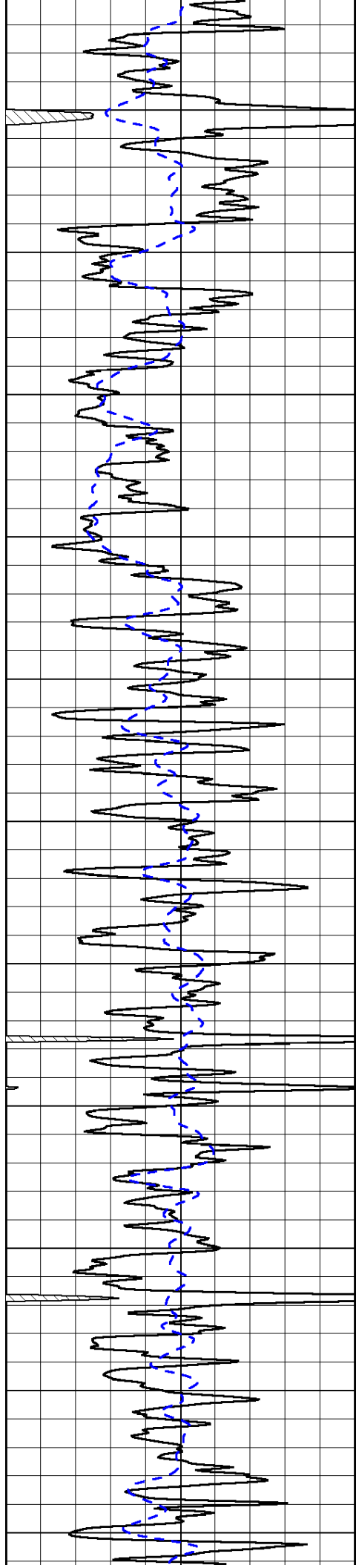
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Dataset Pathname: dil/prmlstk  
Presentation Format: dil2in  
Dataset Creation: Wed May 14 03:10:35 2014  
Charted by: Depth in Feet scaled 1:600

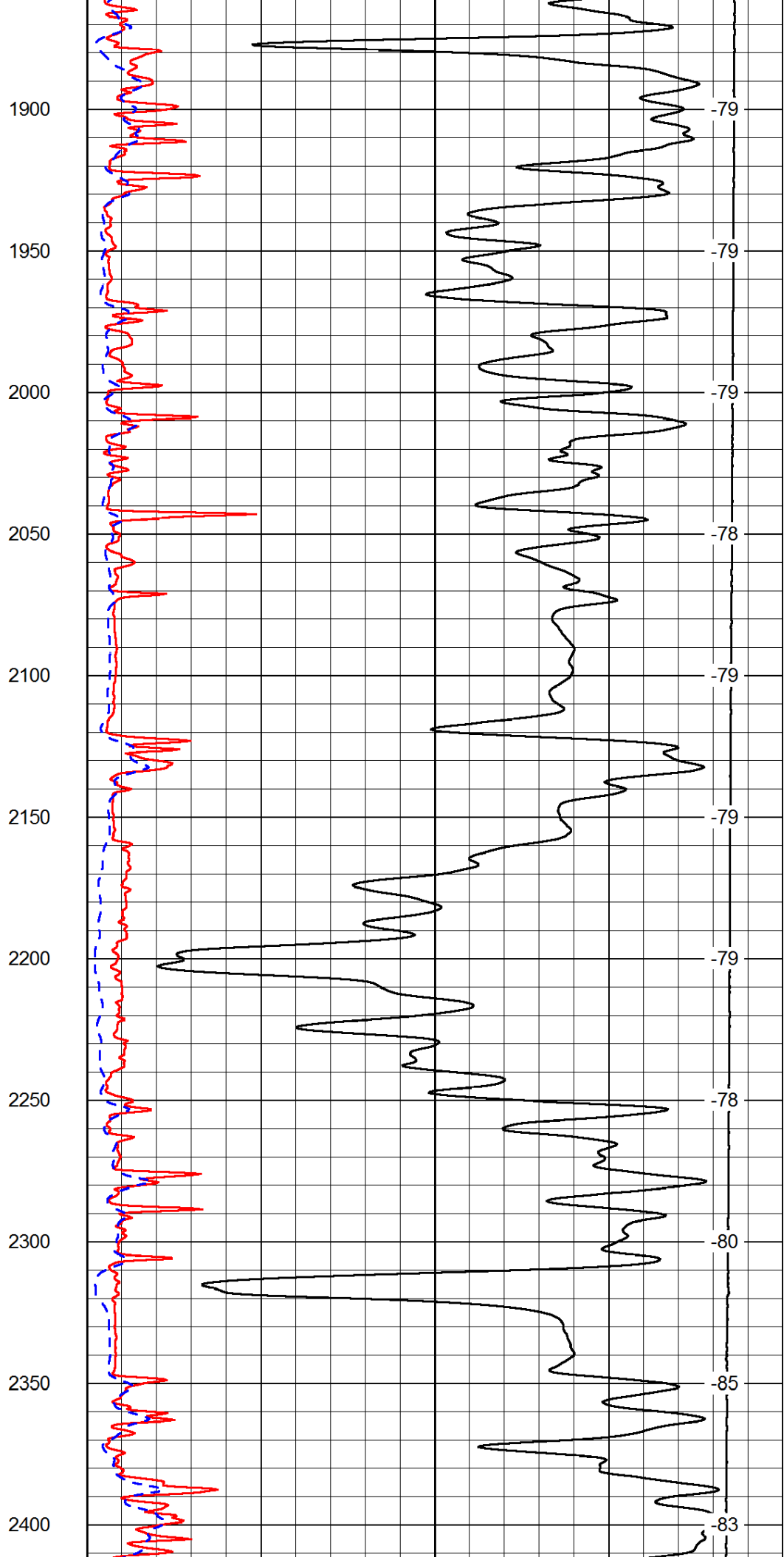
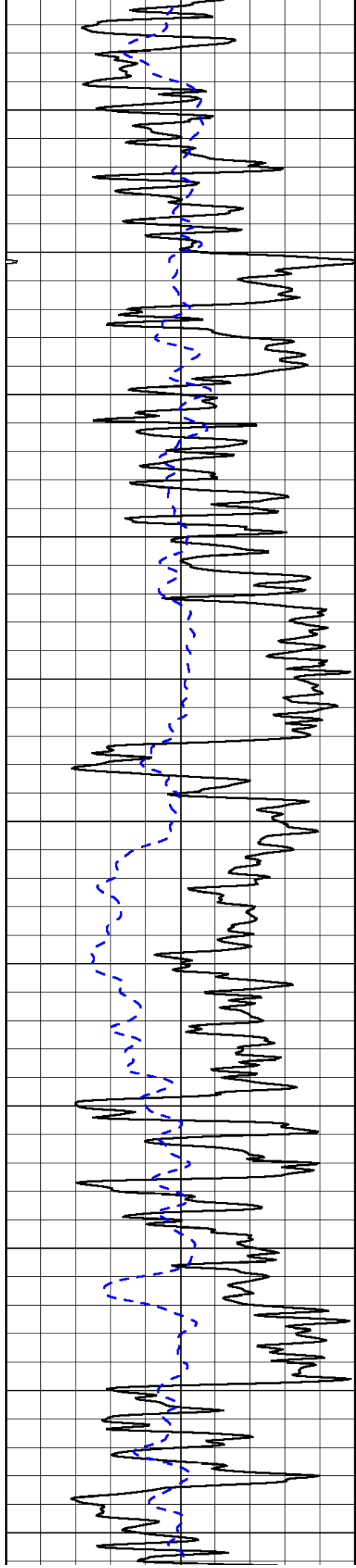
|                                            |           |     |
|--------------------------------------------|-----------|-----|
| 0                                          | Gamma Ray | 150 |
| -200                                       | SP (mV)   | 0   |
| <hr style="border-top: 1px dashed blue;"/> |           |     |

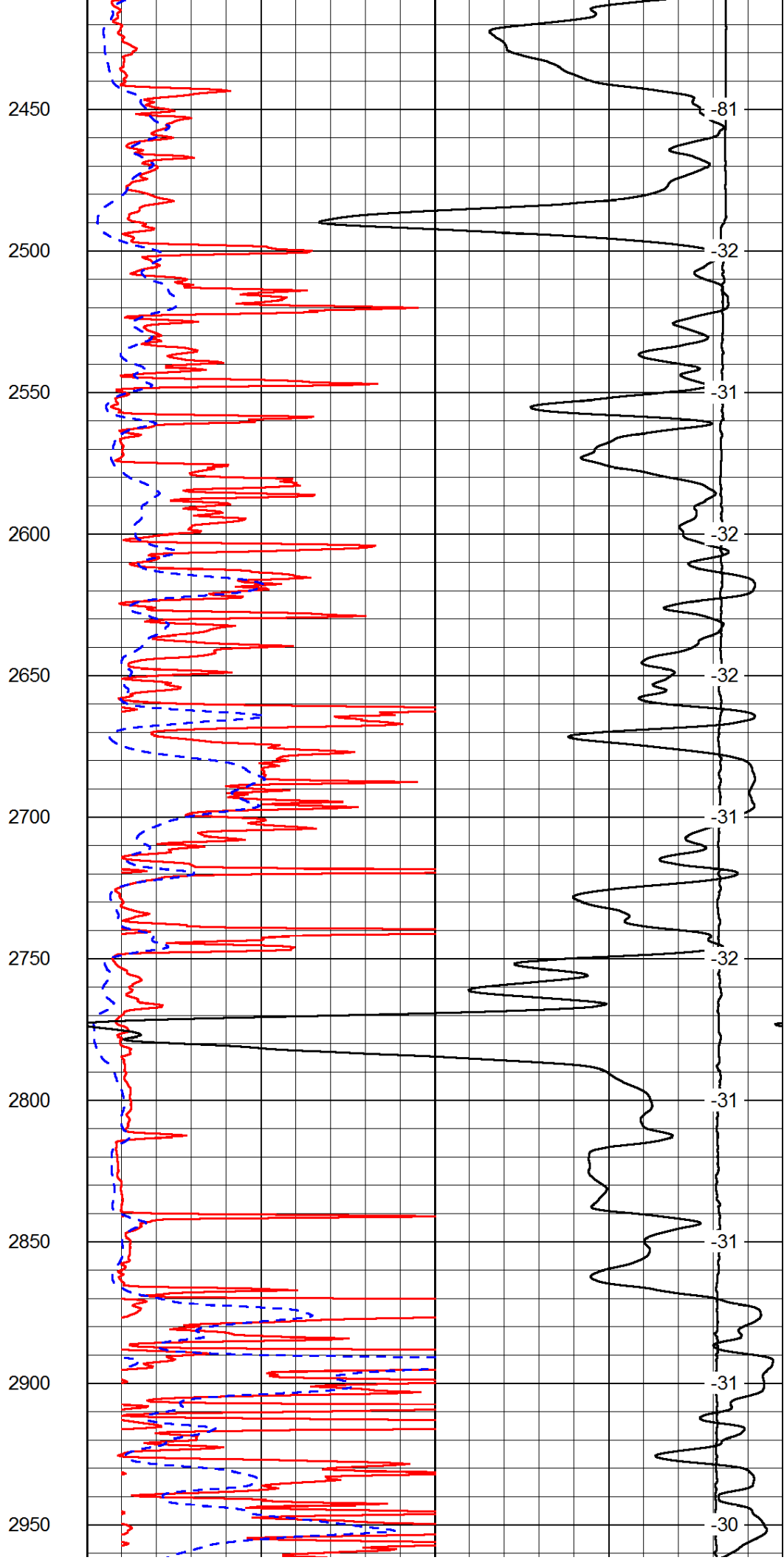
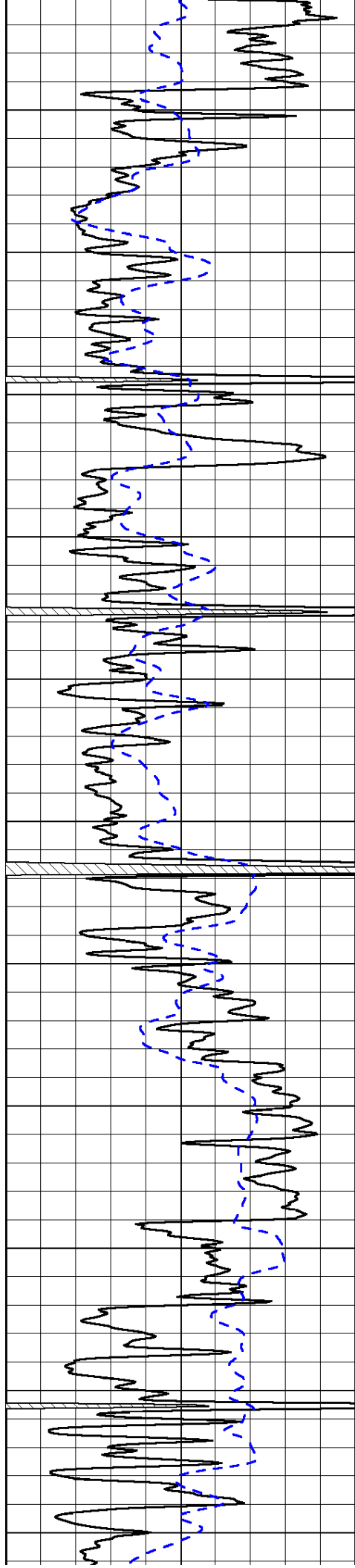
|                                            |                     |     |      |
|--------------------------------------------|---------------------|-----|------|
| 0                                          | Shallow Resistivity | 50  | LSPD |
| 0                                          | Deep Resistivity    | 50  |      |
| 1000                                       | Conductivity        |     | 0    |
| 15000                                      | Line Tension        |     | 0    |
| 50                                         | Shallow Resistivity | 500 |      |
| 50                                         | Deep Resistivity    | 500 |      |
| <hr style="border-top: 1px dashed blue;"/> |                     |     |      |

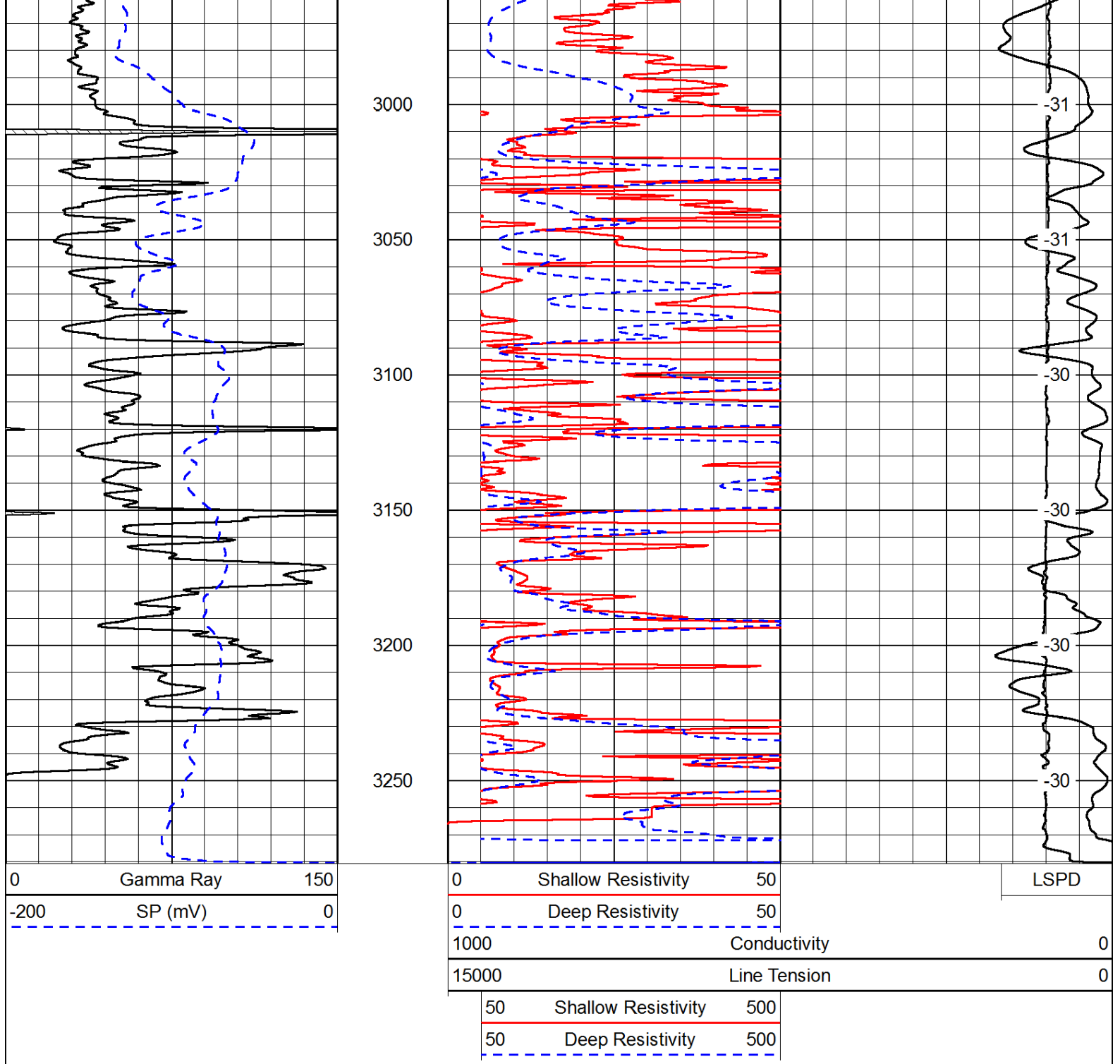




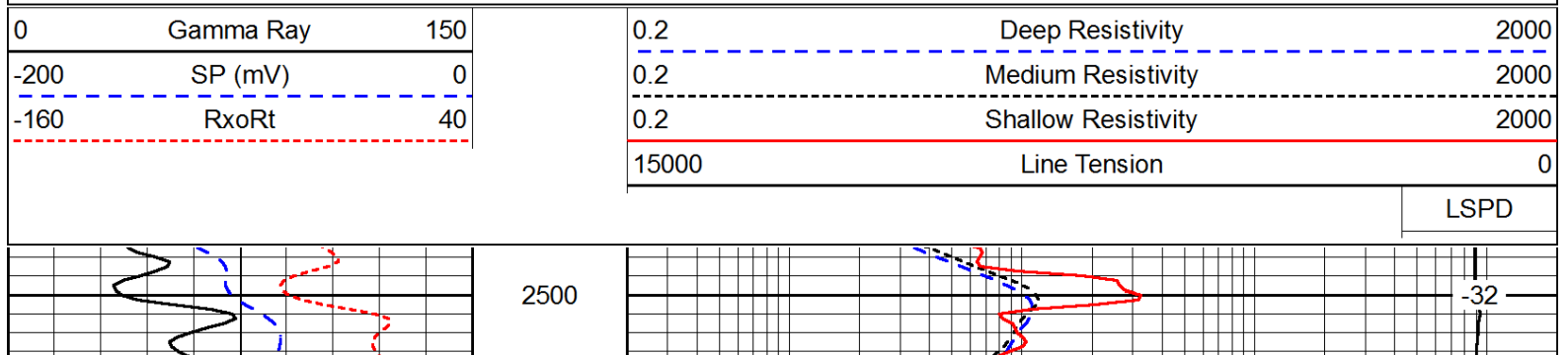


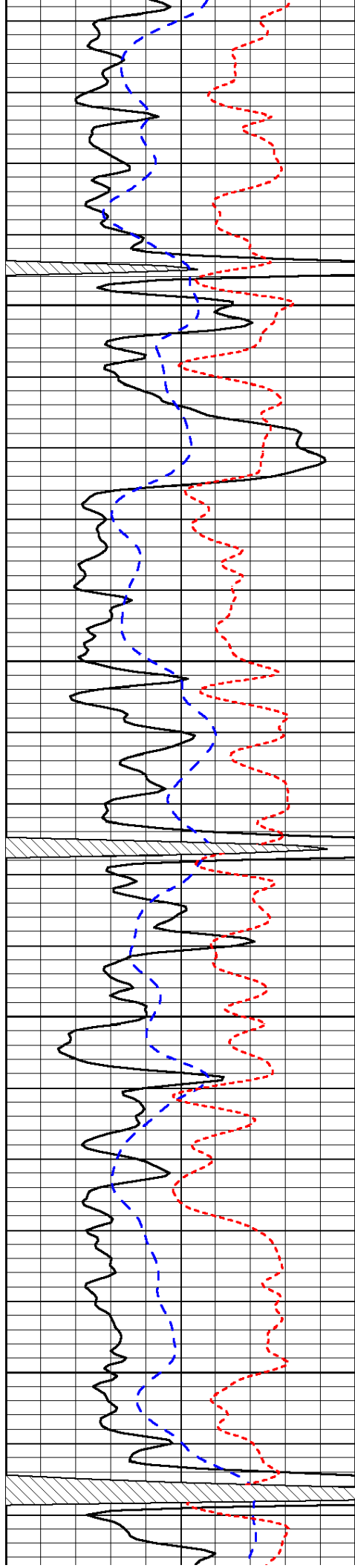






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 Presentation Format: dil  
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 Charted by: Depth in Feet scaled 1:240



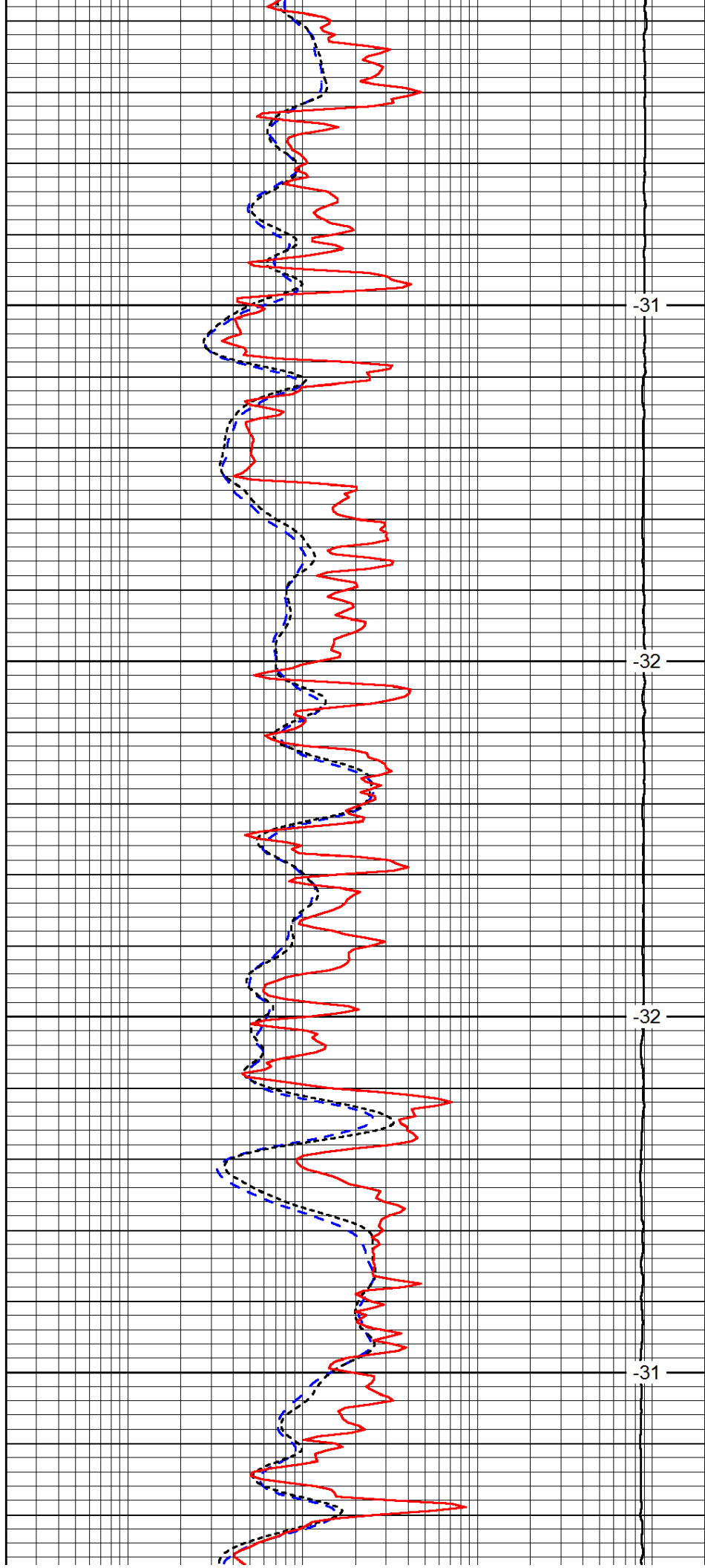


2550

2600

2650

2700



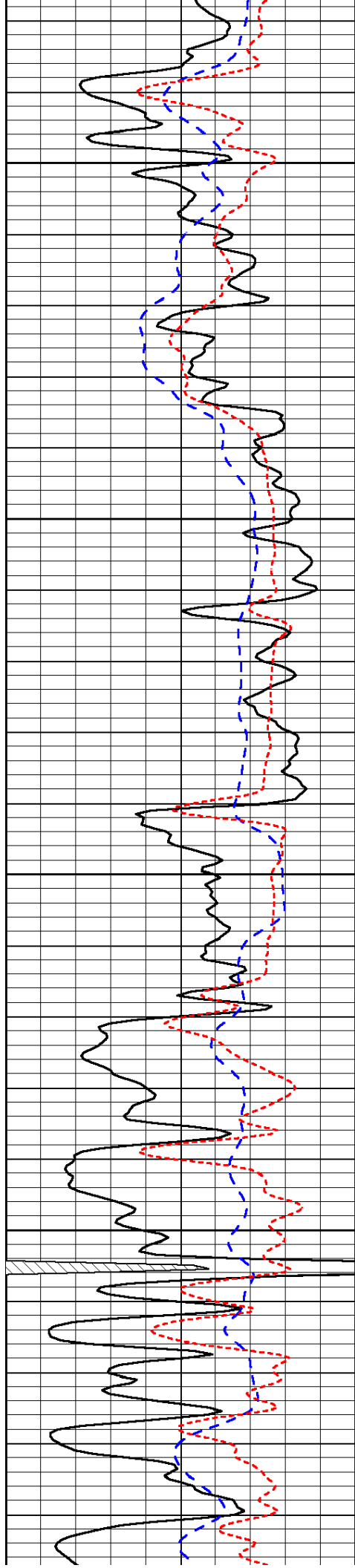
-31

-32

-32

-31



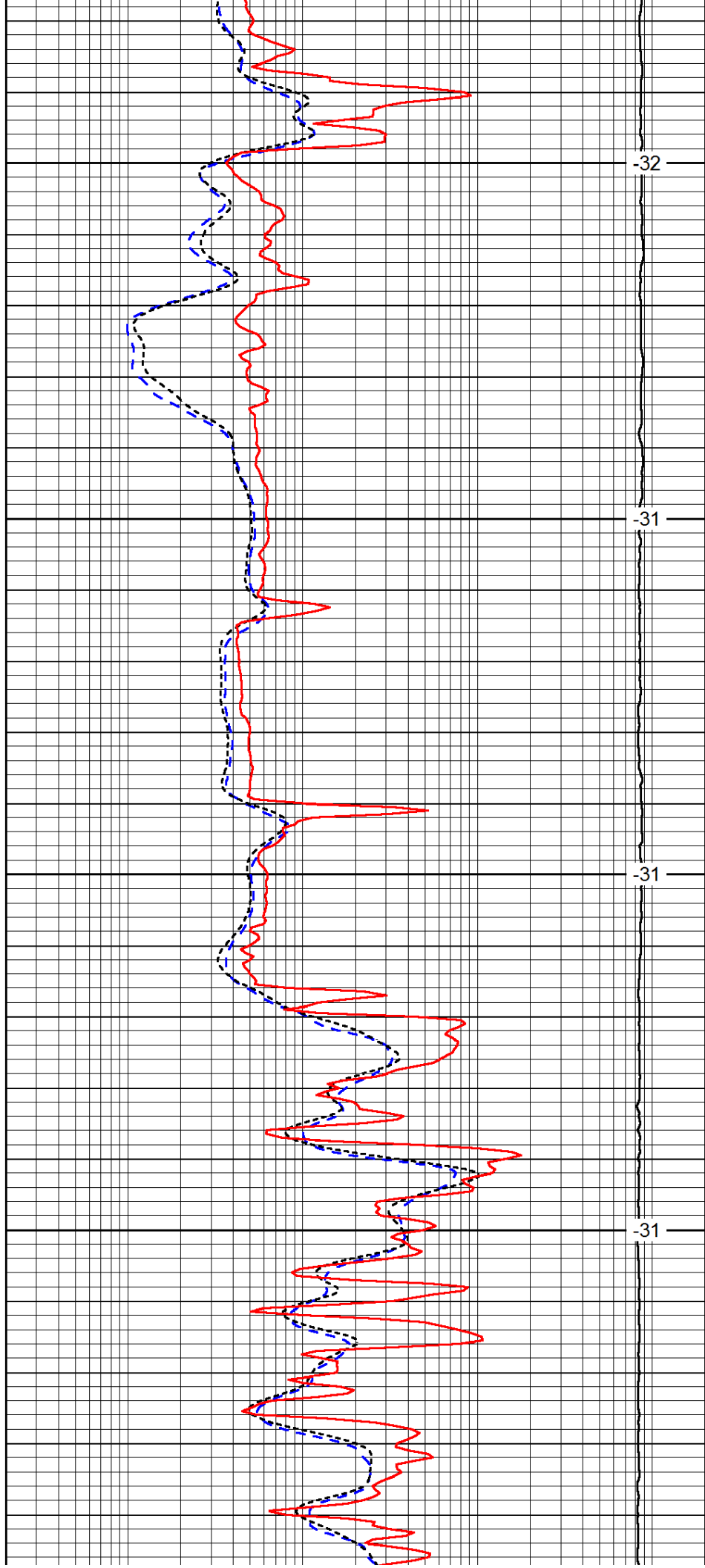


2750

2800

2850

2900

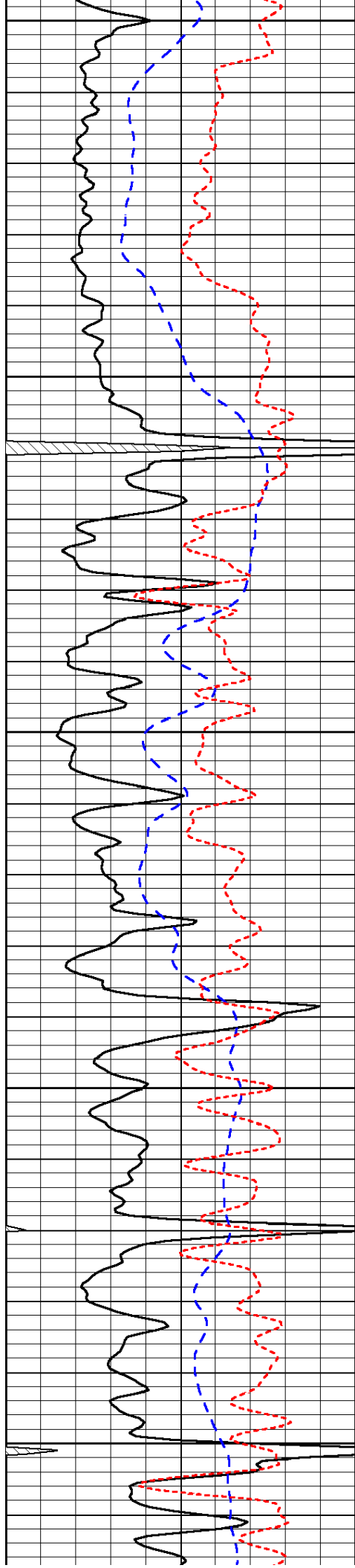


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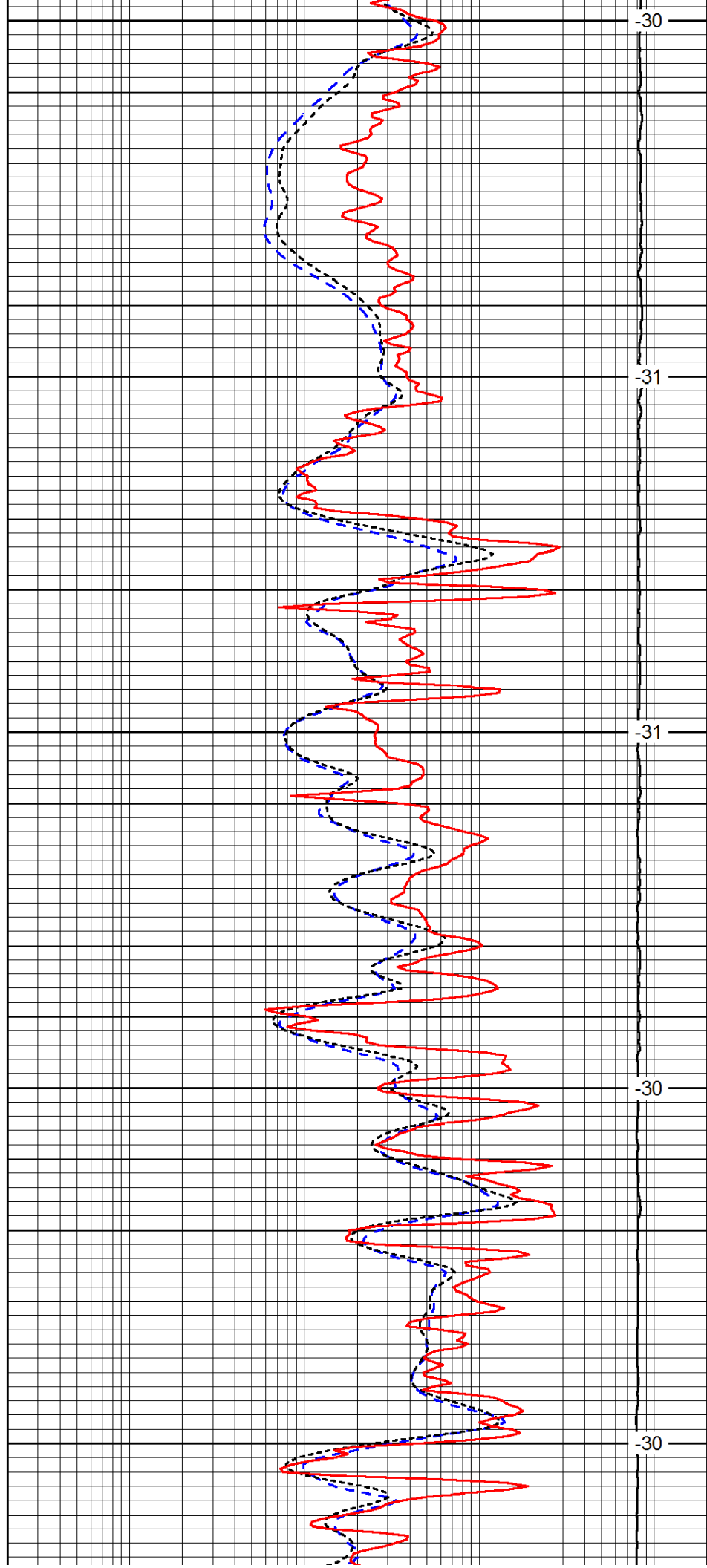
2950

3000

3050

3100

3150



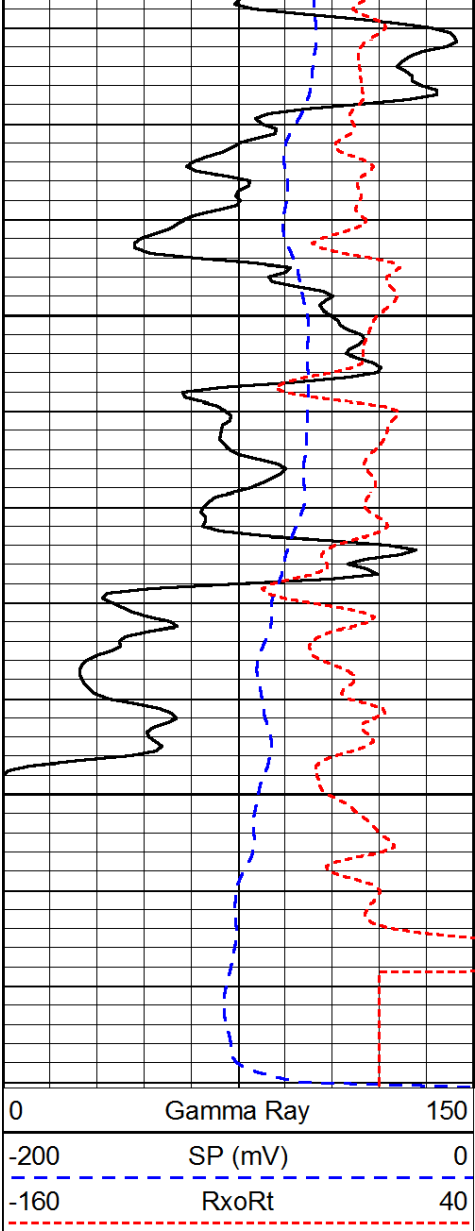
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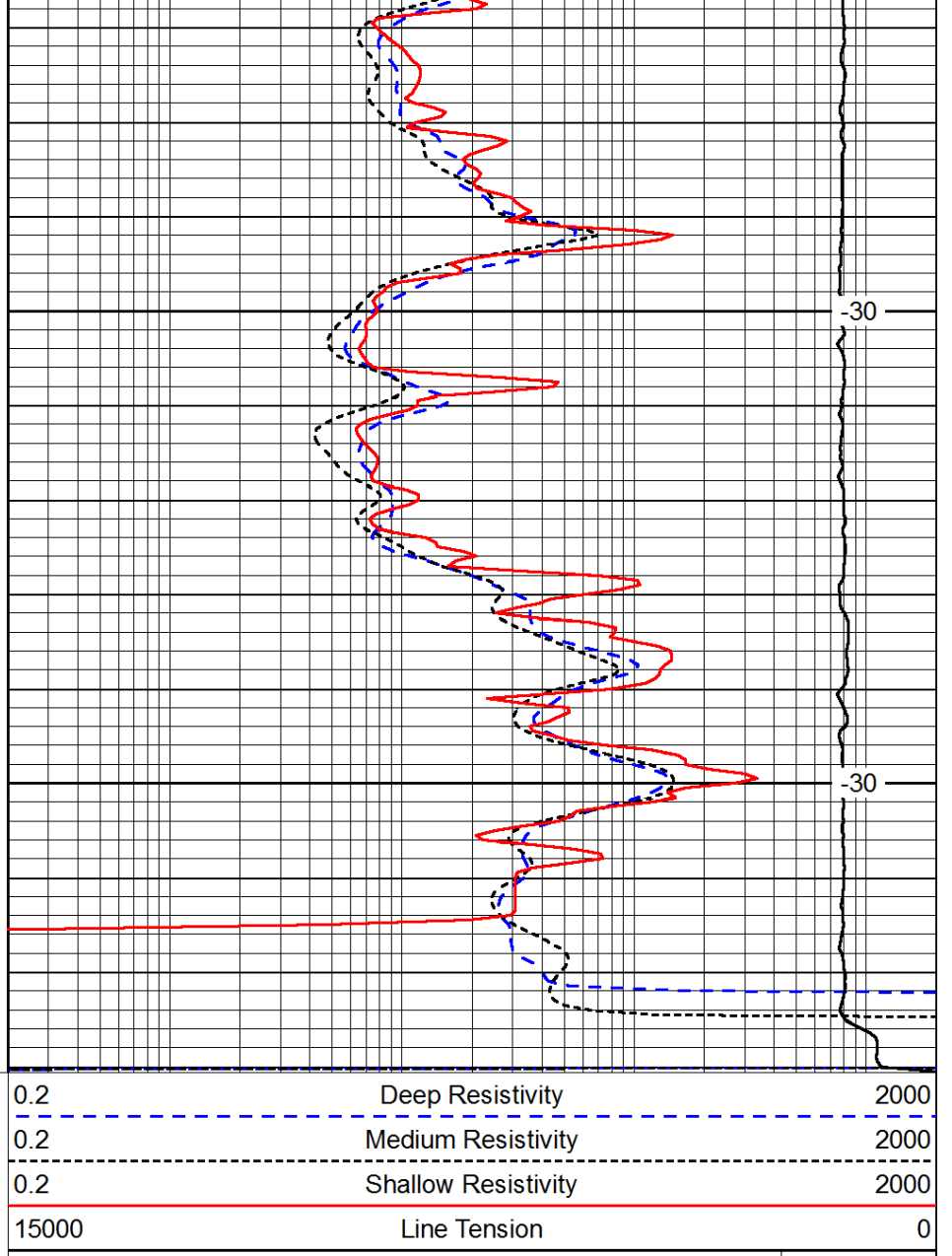
-30

-30



3200

3250



30

30

LSPD