



Dual Induction Log

Pioneer Energy Services

API No.

15-159-22,810-00-00

Company **Lebsack Oil Production, Inc.**

Well **North River #4**

Field **Grove**

County

Rice

State

Kansas

Location

2900' FNL & 220' FWL

Sec: **34**

Twp: **20S**

Rge: **10W**

Elevation

Permanent Datum **Ground Level** Elevation **1716**
Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Other Services
CNL/CDL
MEL
K.B. 1725
D.F. 1716
G.L. 1716

Date **12/10/2014**

Run Number **One**

Depth Driller **3200**

Depth Logger **3200**

Bottom Logged Interval **3199**

Top Log Interval **250**

Casing Driller **8.625 @ 264**

Casing Logger **262**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **5300**

Density / Viscosity **9.1 46**

pH / Fluid Loss **10.0 7.2**

Source of Sample **Flowline**

Rm @ Meas. Temp **.90 @ 62**

Rmf @ Meas. Temp **.68 @ 62**

Rmc @ Meas. Temp **1.22 @ 62**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.52 @ 108**

Operating Rig Time **3 Hours**

Max Rec. Temp. F **108**

Equipment Number **108**

Location **Hays**

Recorded By **D. Fischer**

Witnessed By **Joshua Austin**

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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

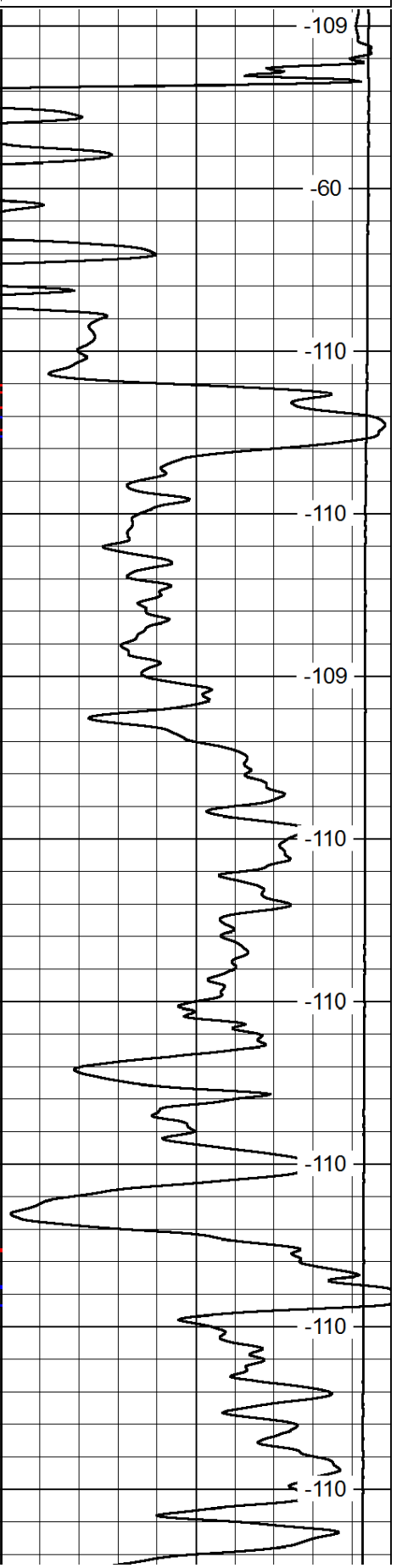
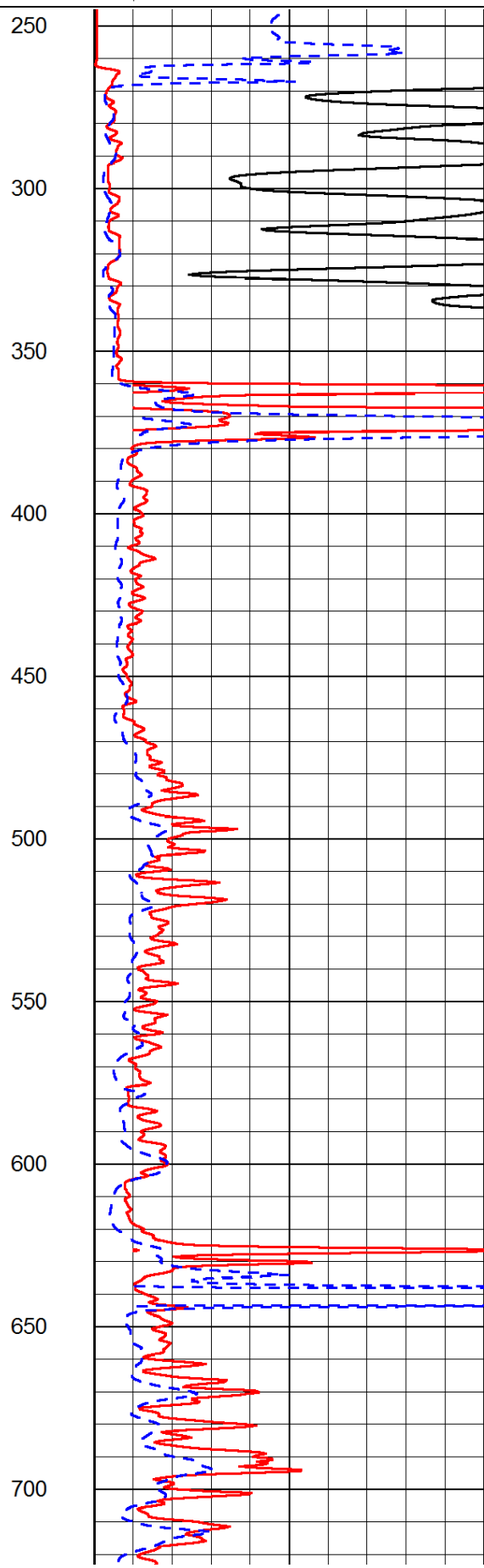
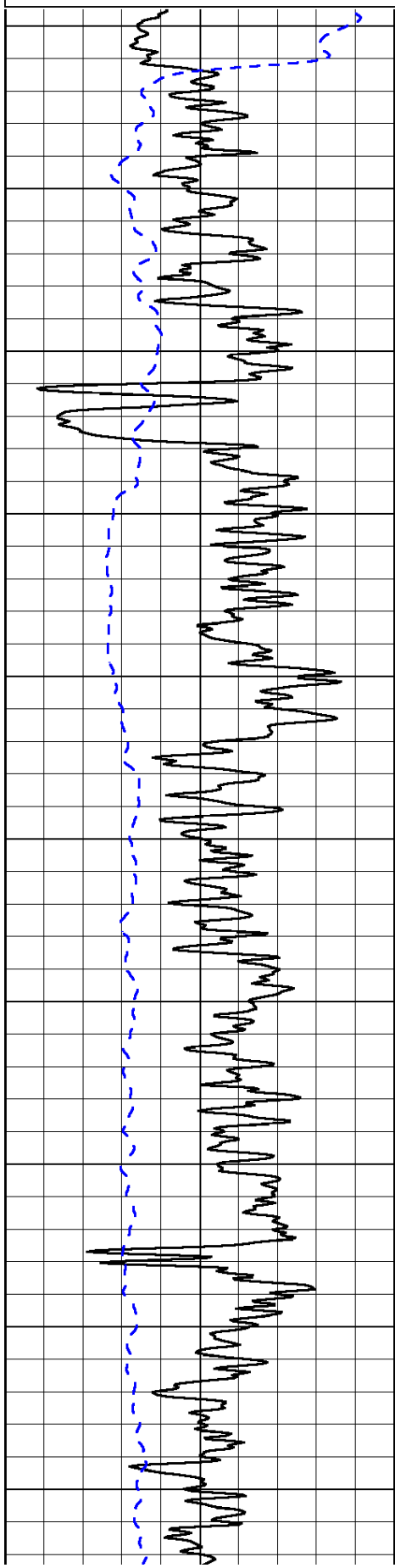
Raymond Ks., 1/2 West, South Into.

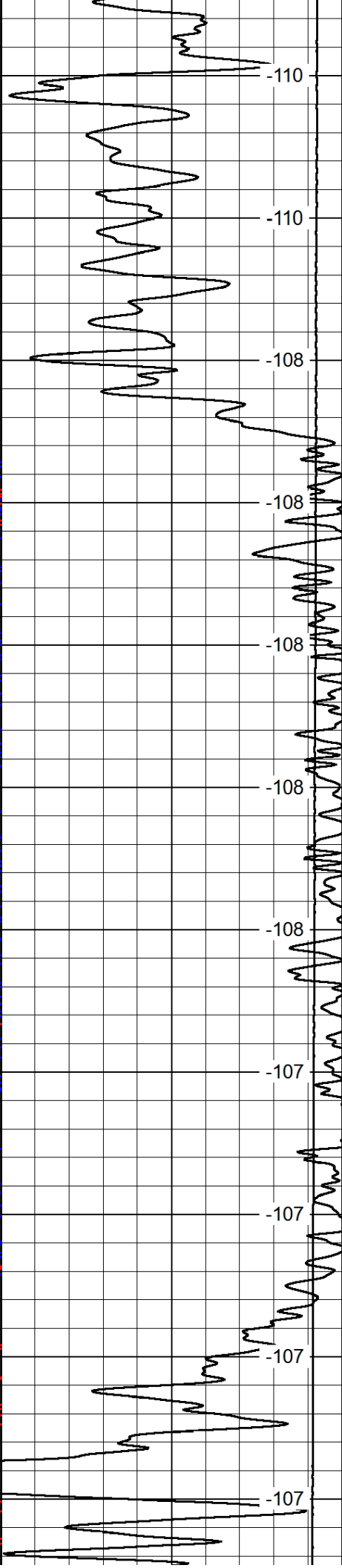
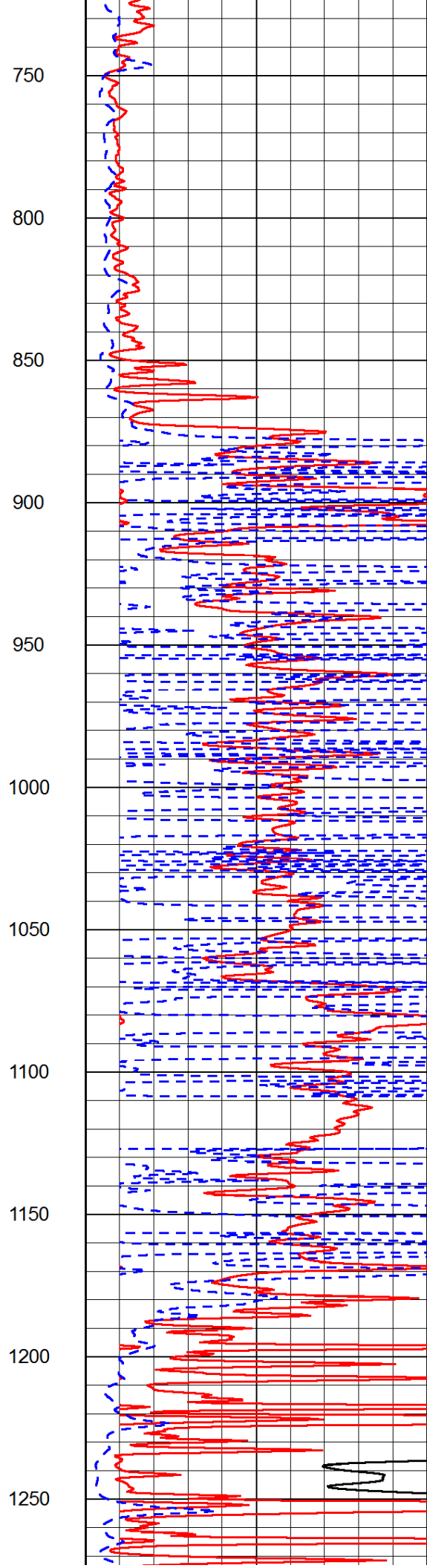
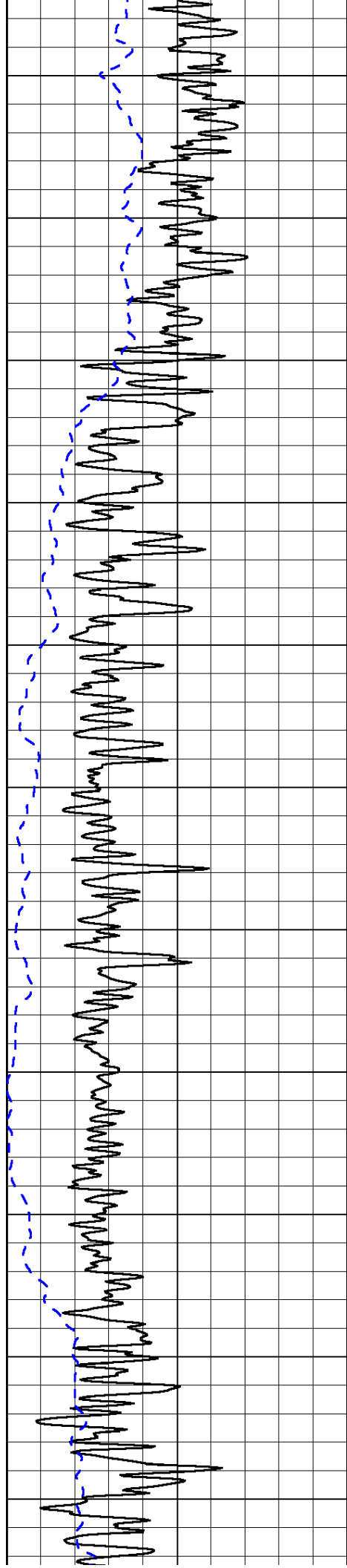
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Presentation Format: dil2in
Dataset Creation: Tue Dec 09 23:12:18 2014
Charted by: Depth in Feet scaled 1:600

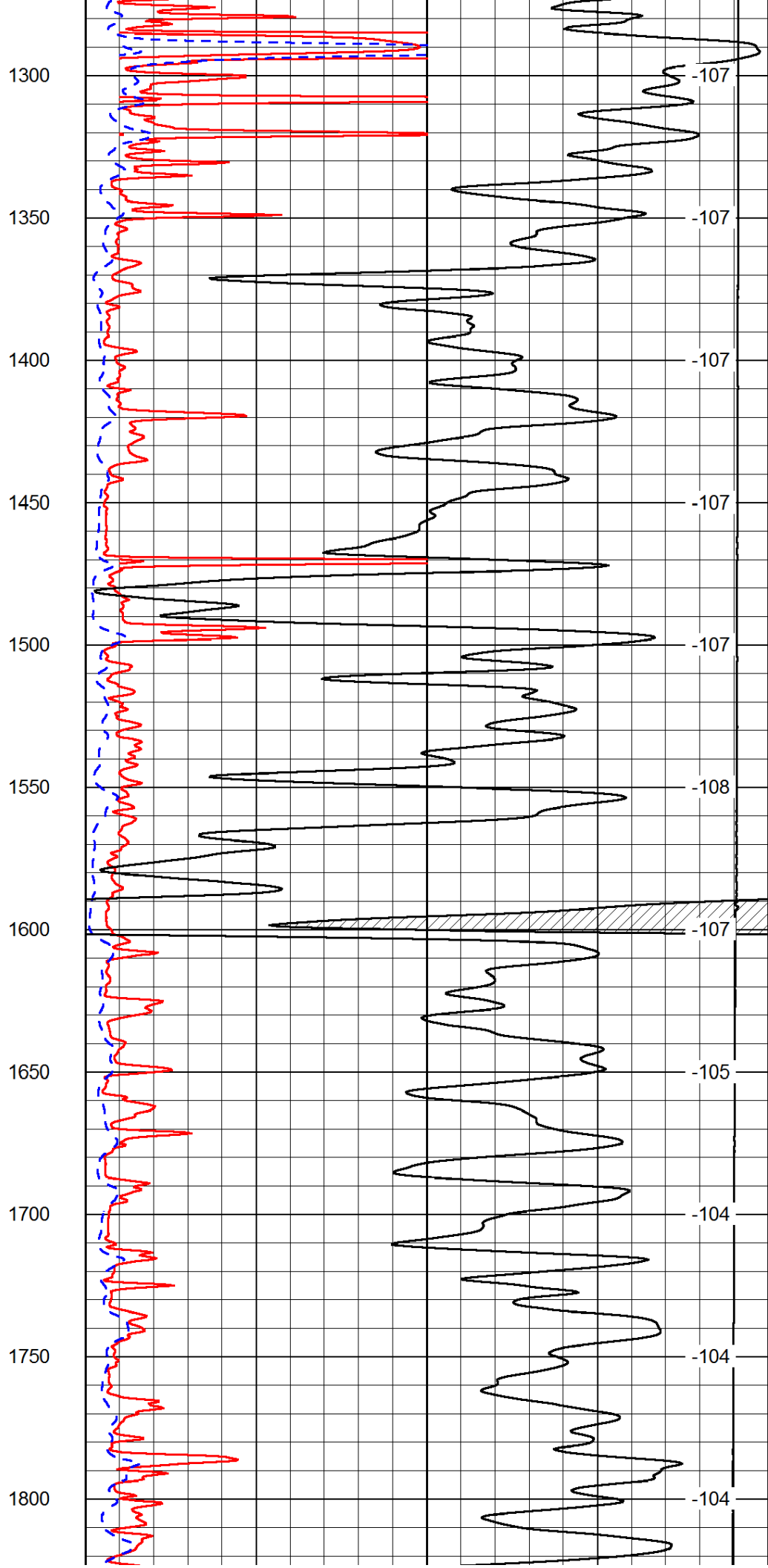
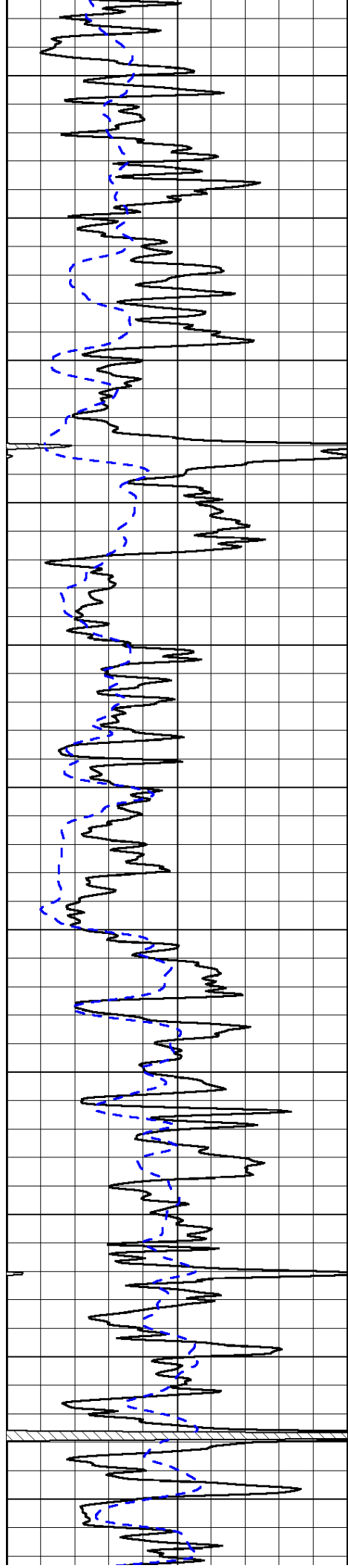
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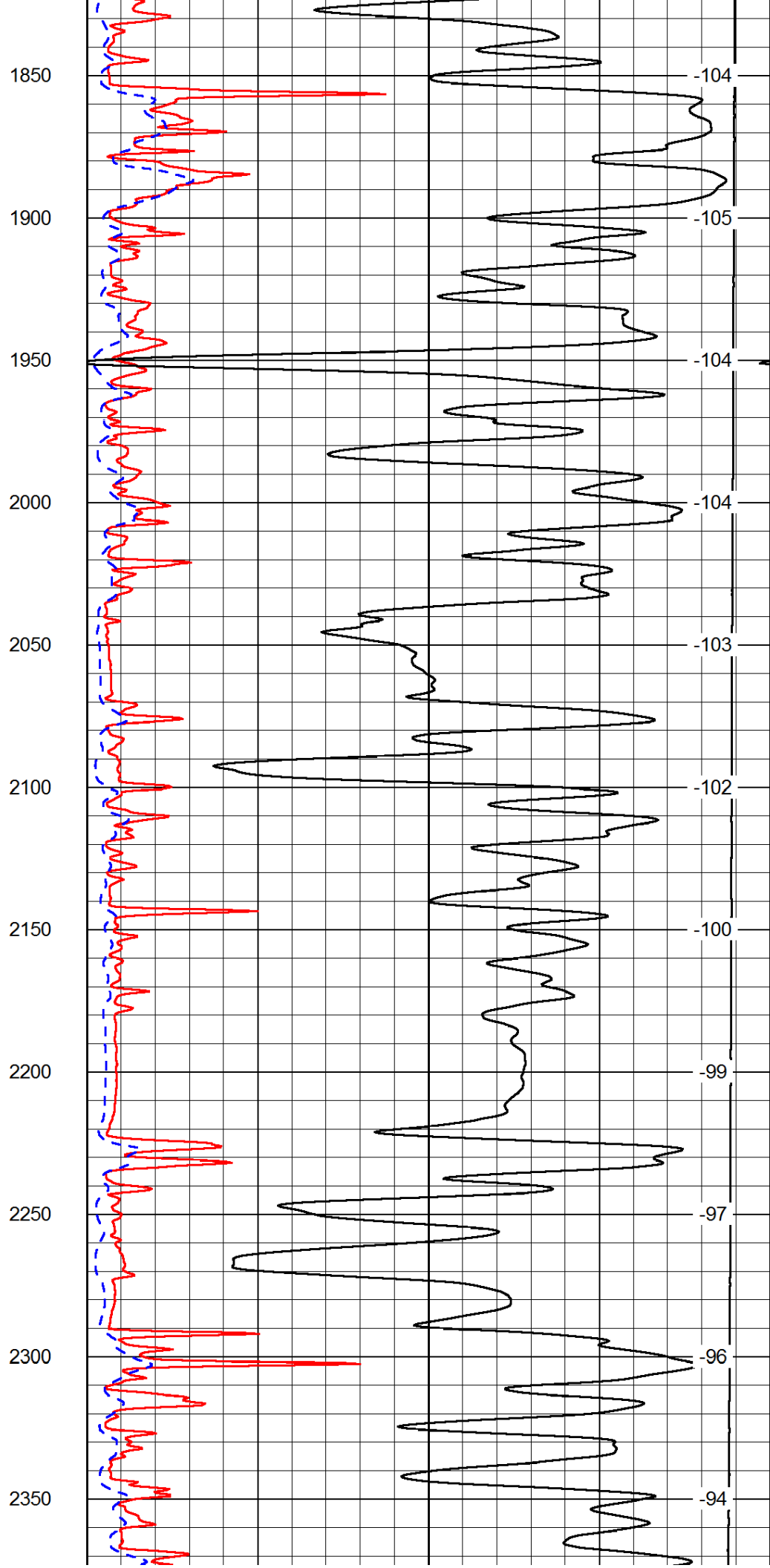
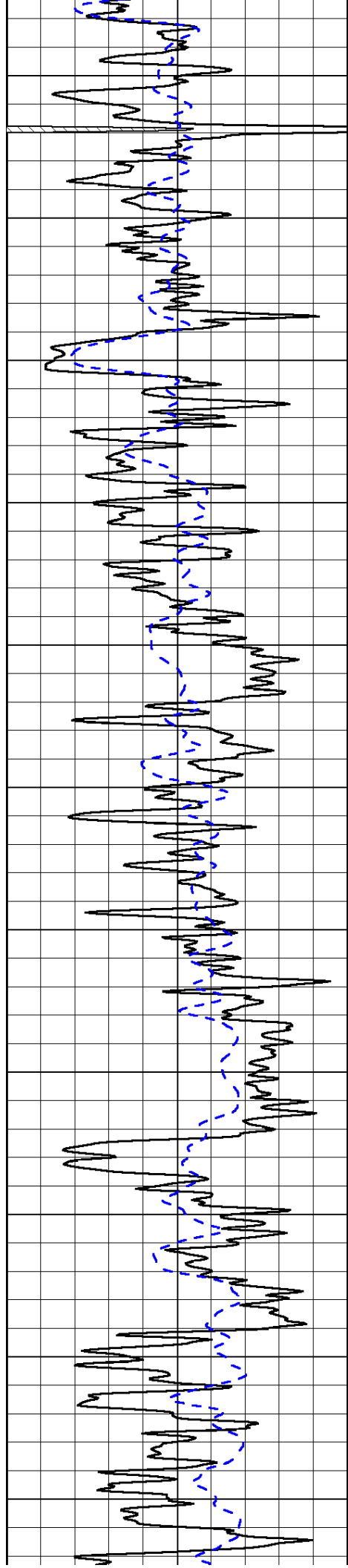
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

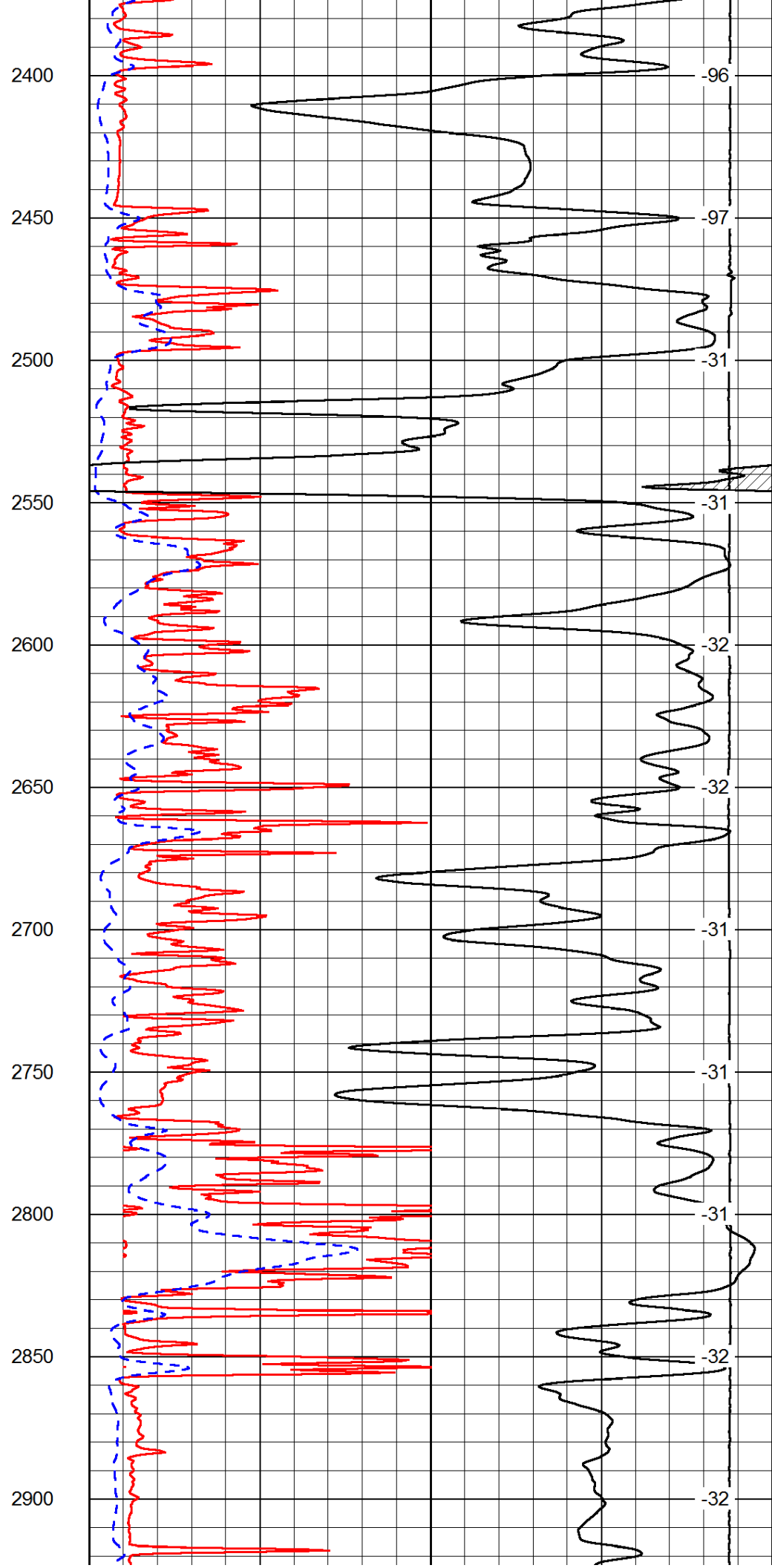
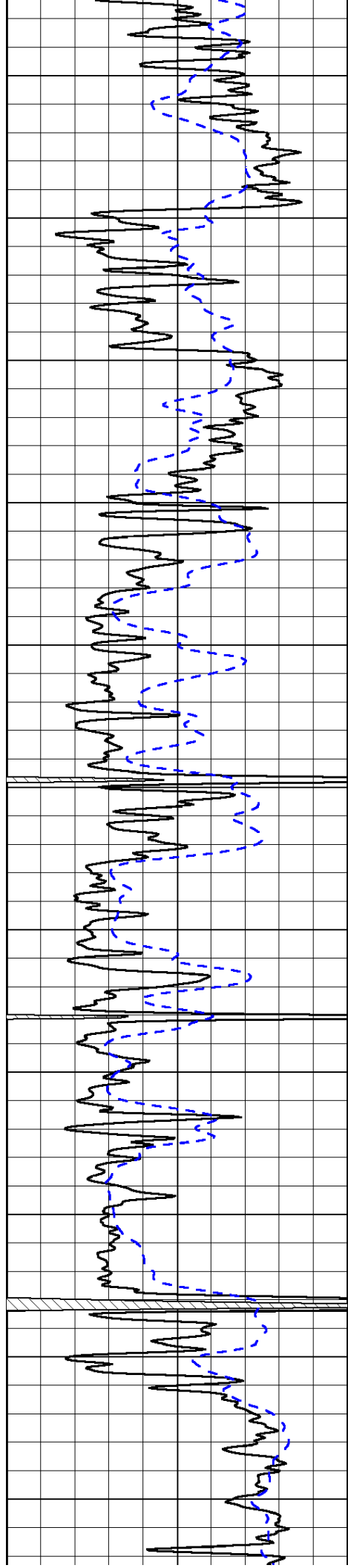
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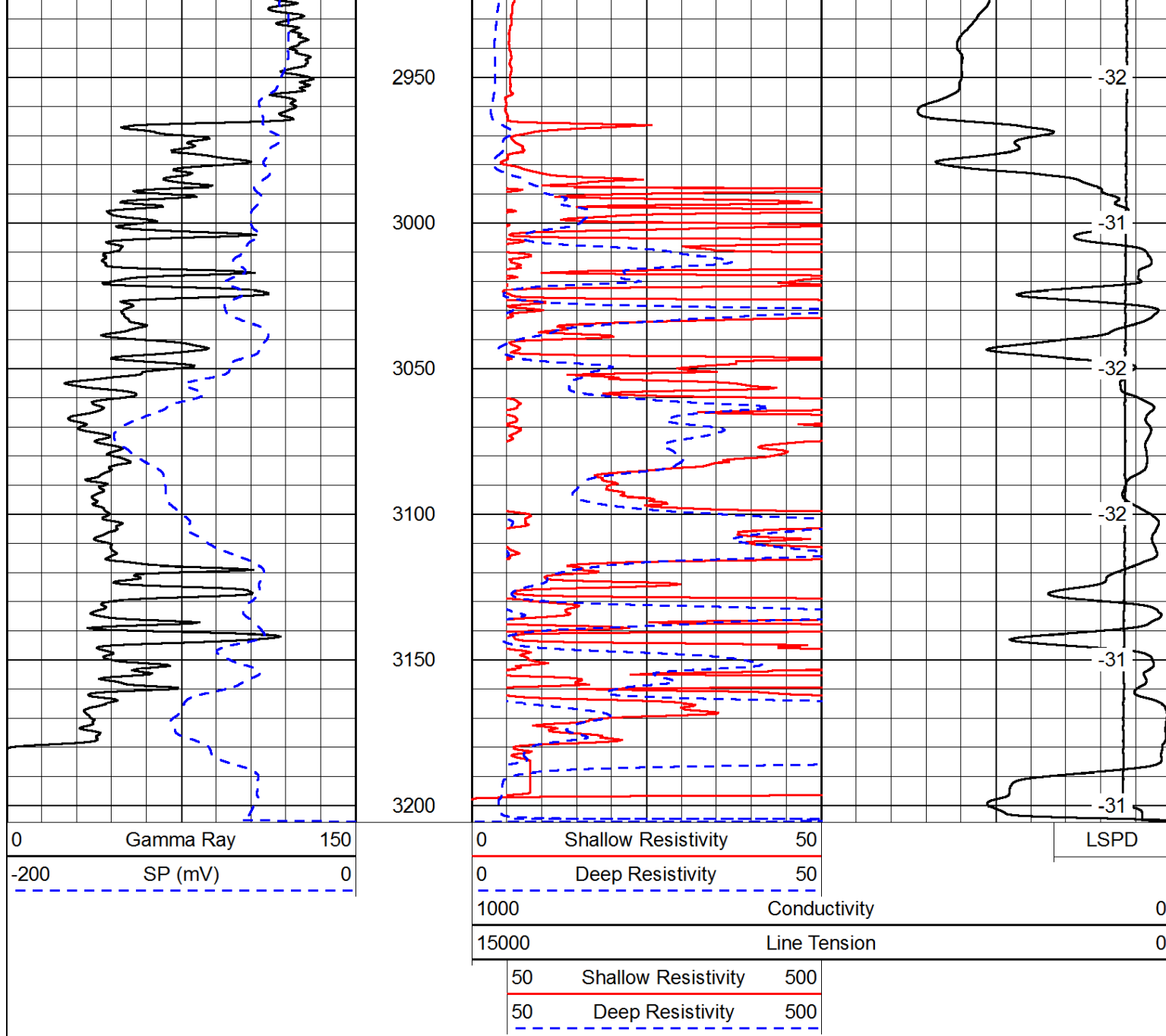




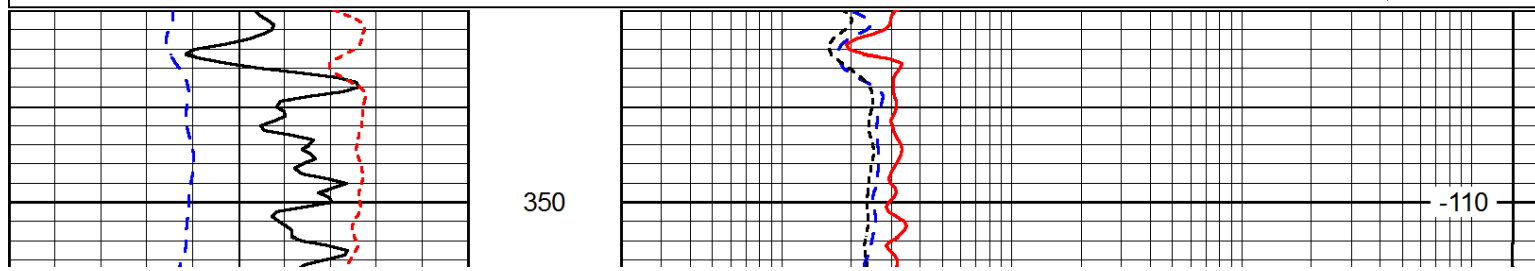
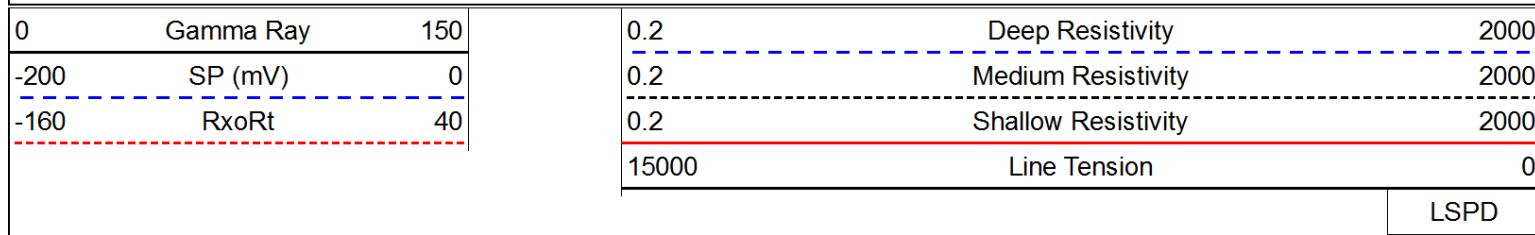


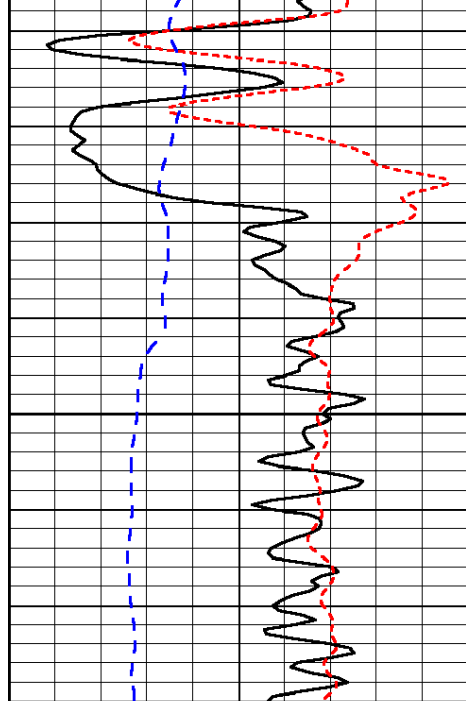






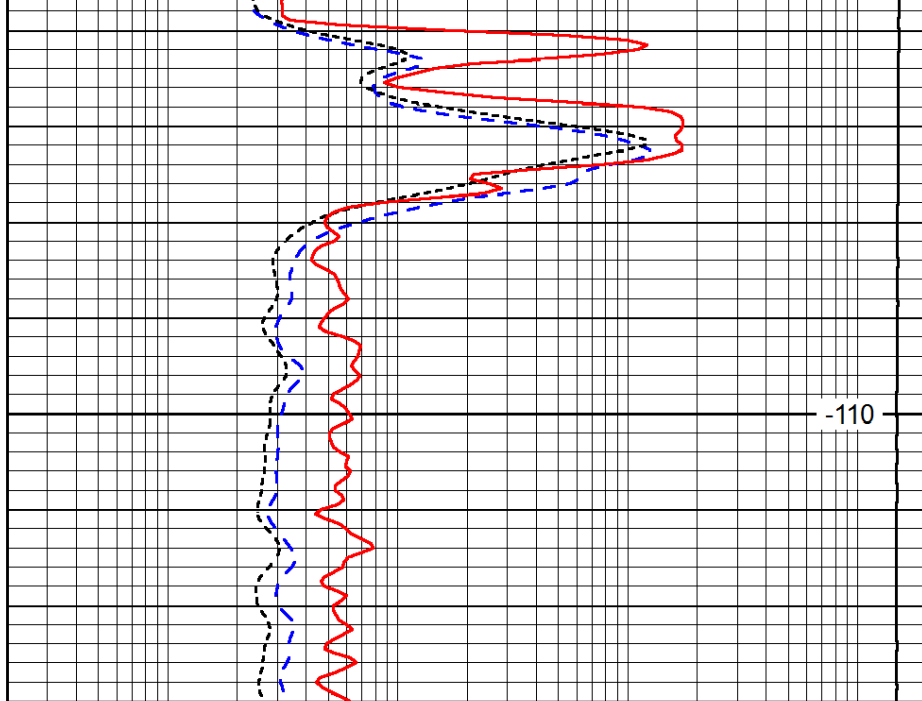
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 Charted by: Depth in Feet scaled 1:240





0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

400



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

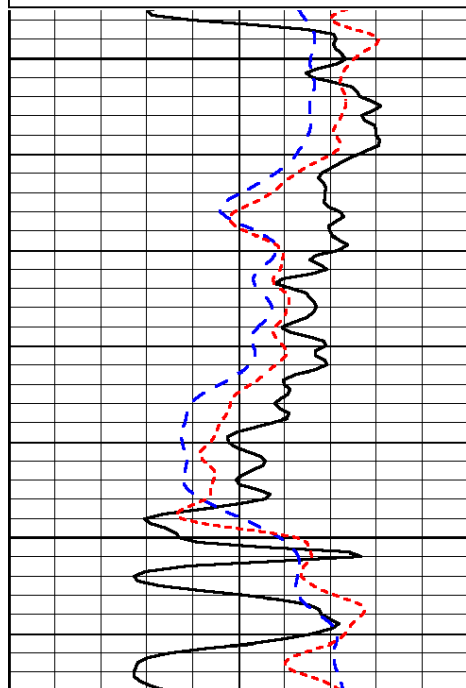
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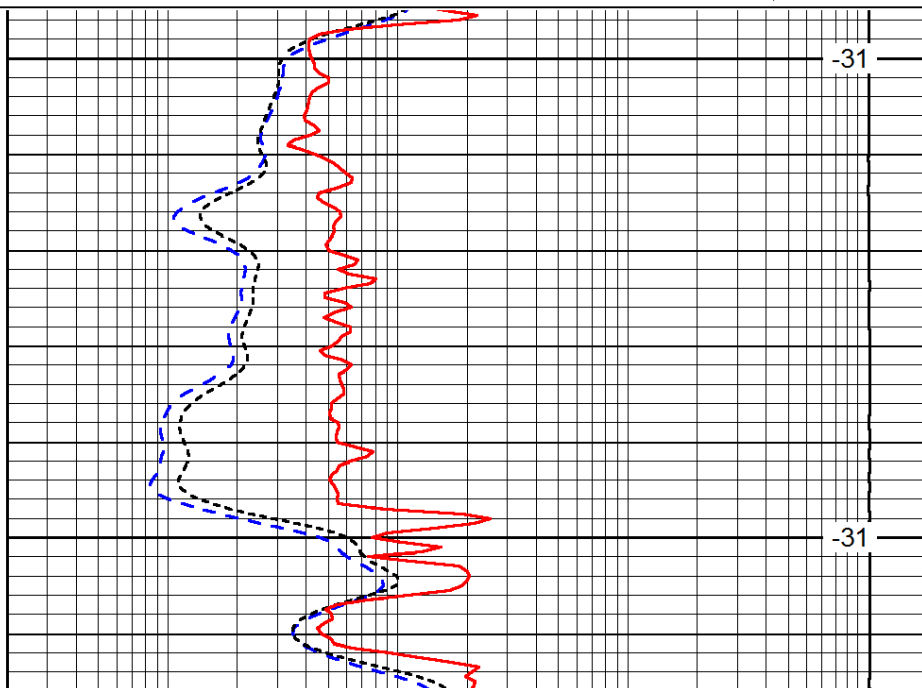
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



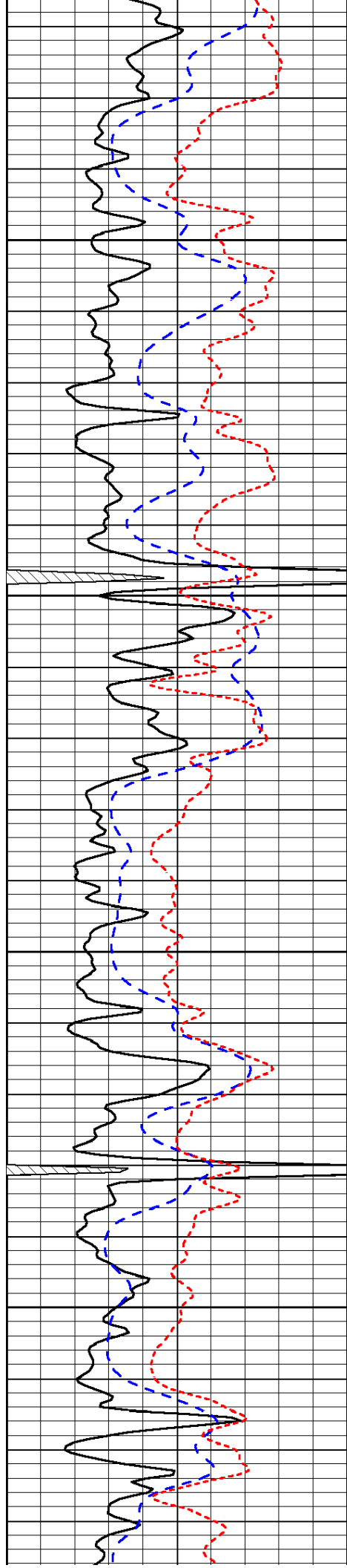
2500

2550



-31

-31

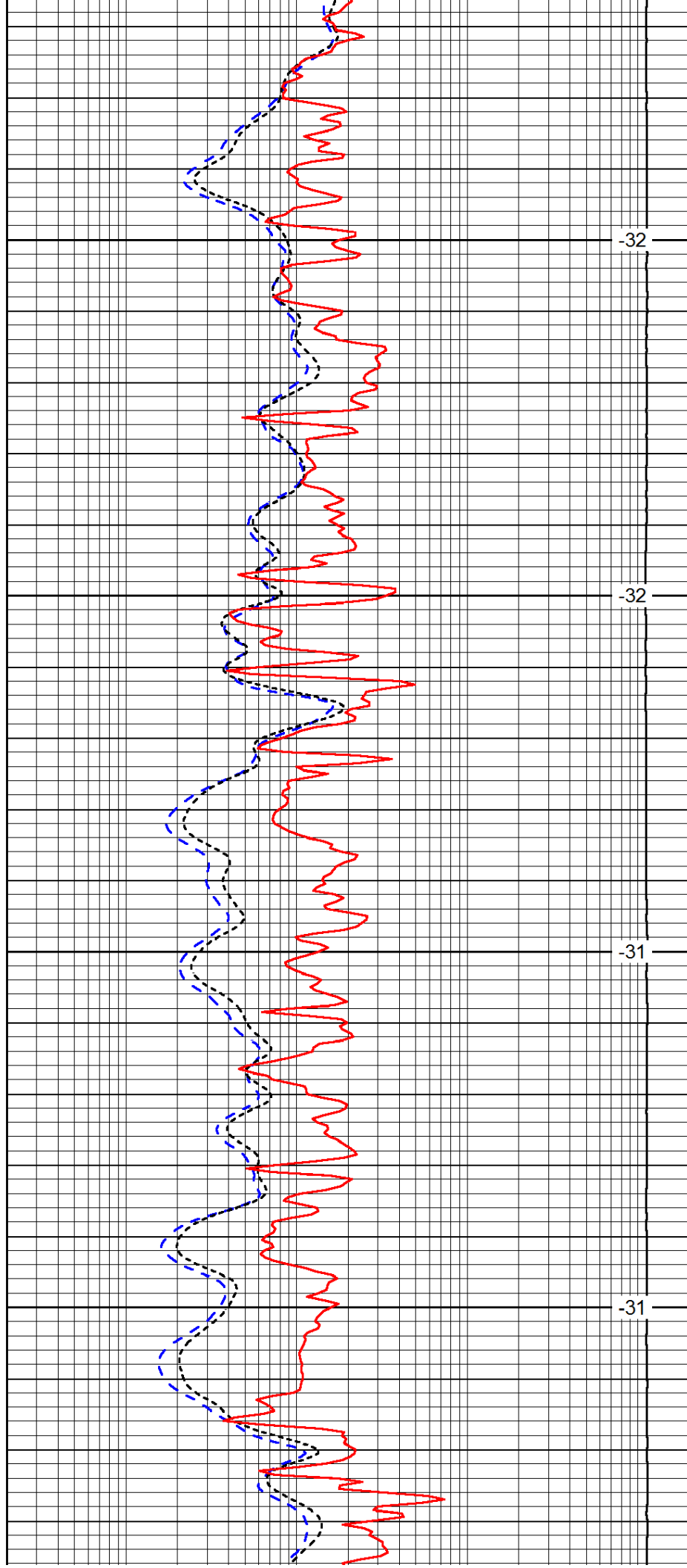


2600

2650

2700

2750

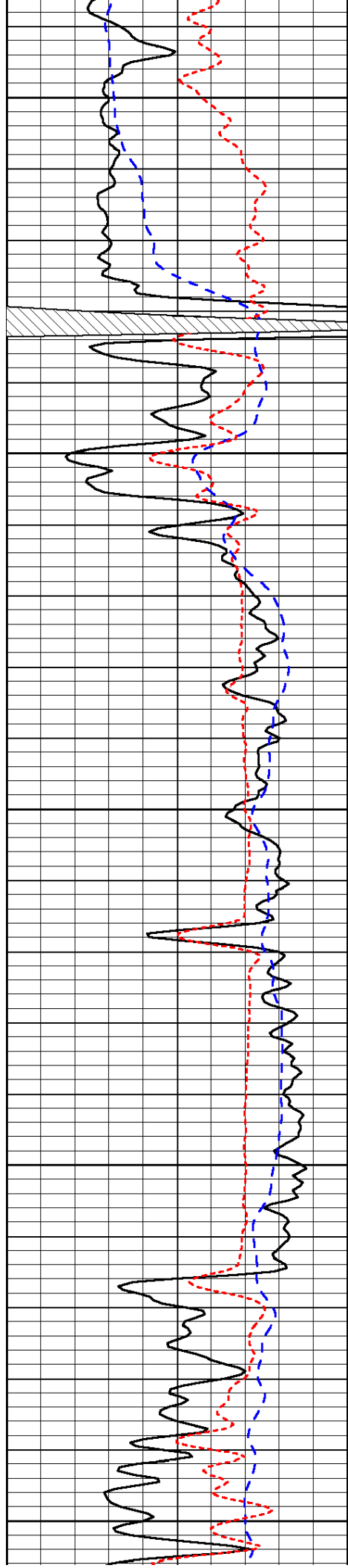


-32

-32

-31

-31



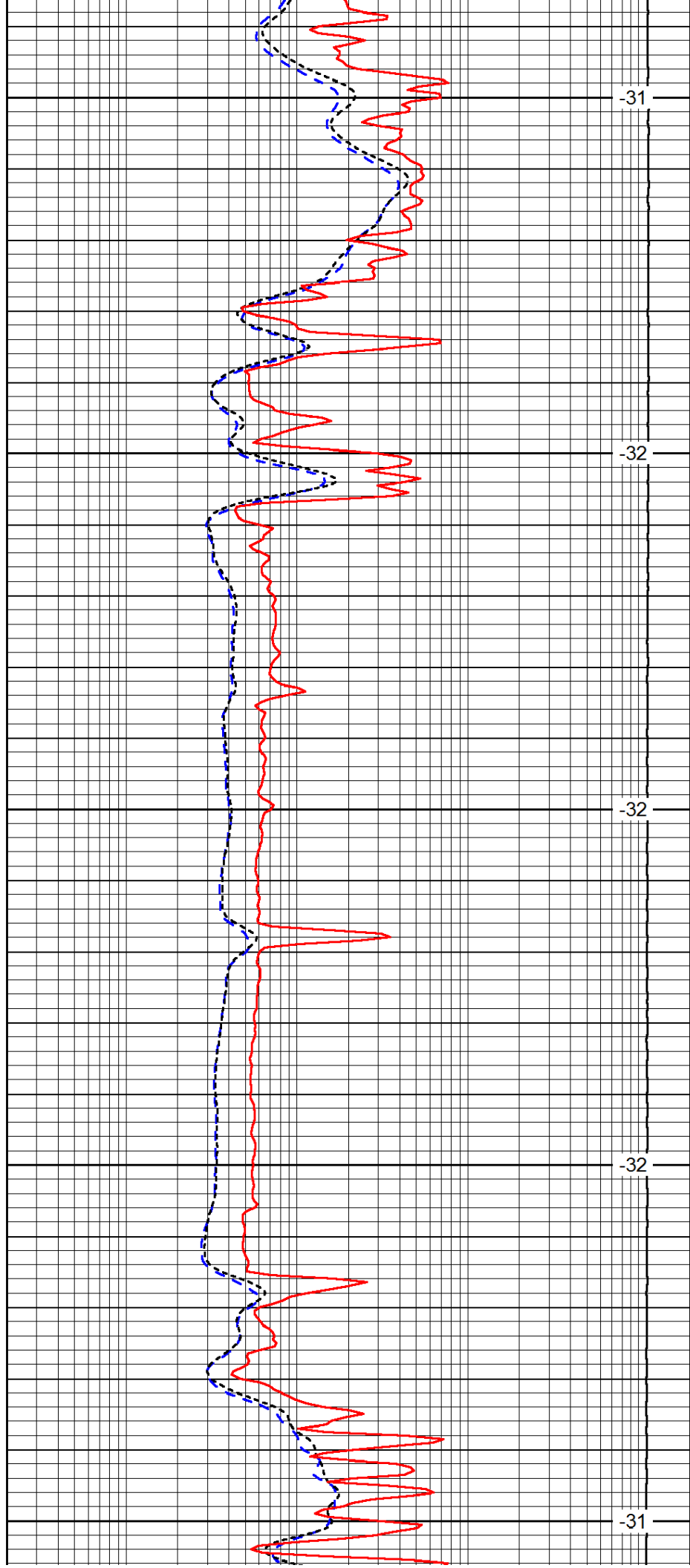
2800

2850

2900

2950

3000



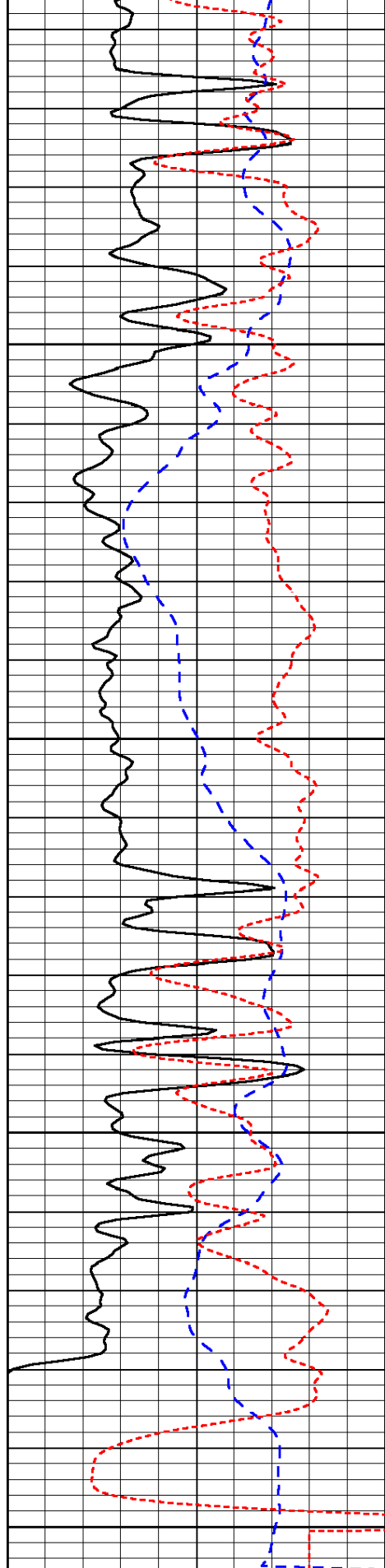
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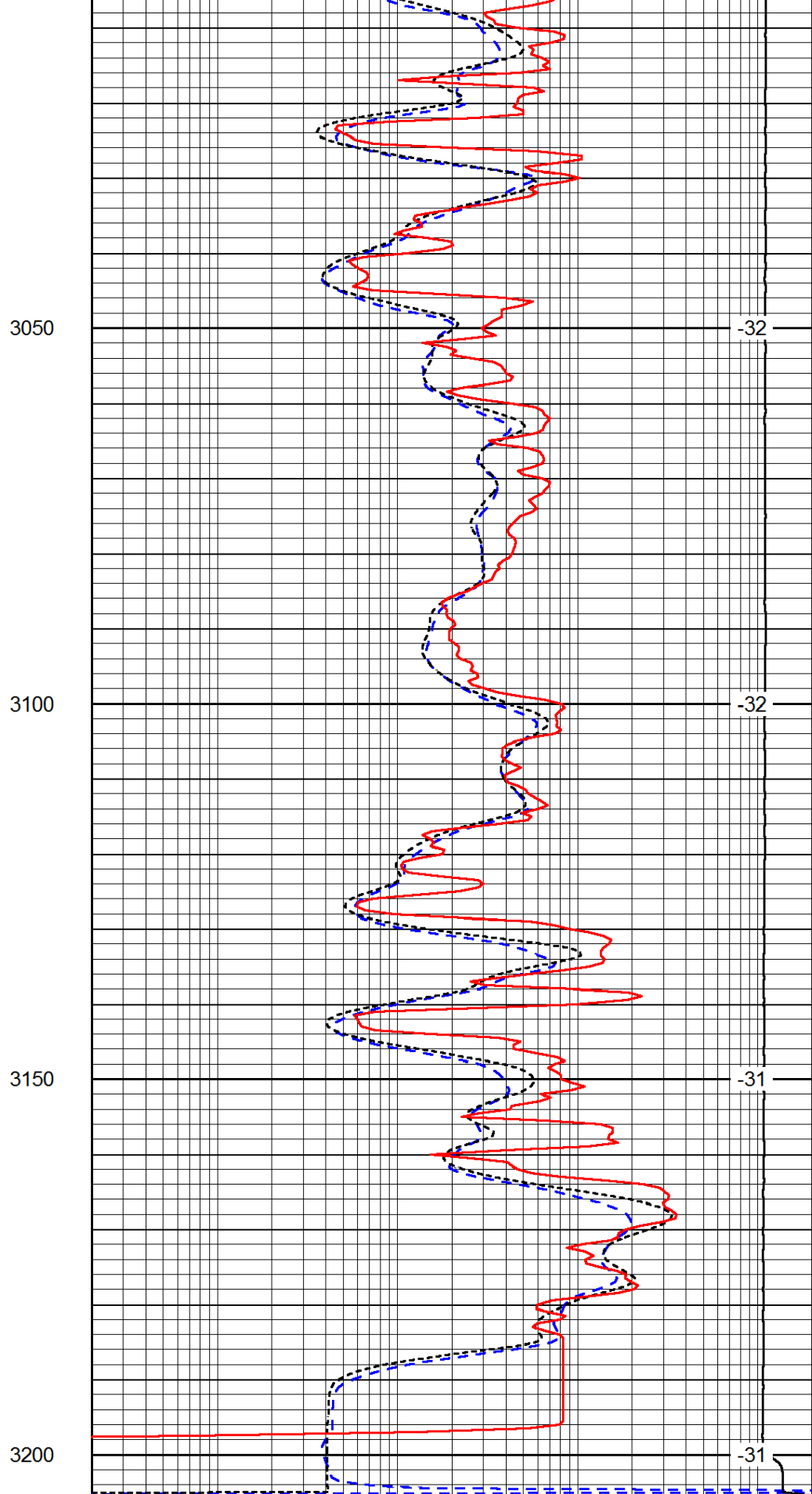
-32

-32

-31



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LSPD