



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-159-22816-00-00

Company **Lebsack Oil Production, Inc.**

Well **North River #5**

Field **Groves**

County **Rice**

State

Kansas

Location **1320' FNL / 1320' FWL**

Sec: **34** Twp: **20S**

Rge: **10W**

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

Elevation

K.B. **1725**
D.F. **1716**
G.L. **1716**

Other Services
CNL/CDL
MEL

Date **12/21/2014**

Run Number **One**

Depth Driller **3250**

Depth Logger **3248**

Bottom Logged Interval **3247**

Top Log Interval **250**

Casing Driller **8.625 @ 264**

Casing Logger **262**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **5200**

Density / Viscosity **9.0** **58**

pH / Fluid Loss **10.5** **7.2**

Source of Sample **Flowline**

Rm @ Meas. Temp **1.10 @ 70**

Rmf @ Meas. Temp **0.83 @ 70**

Rmc @ Meas. Temp **1.49 @ 70**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.71 @ 109**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **109**

Equipment Number **15**

Location **Hays**

Recorded By **R. Barnhart**

Witnessed By **Josh 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

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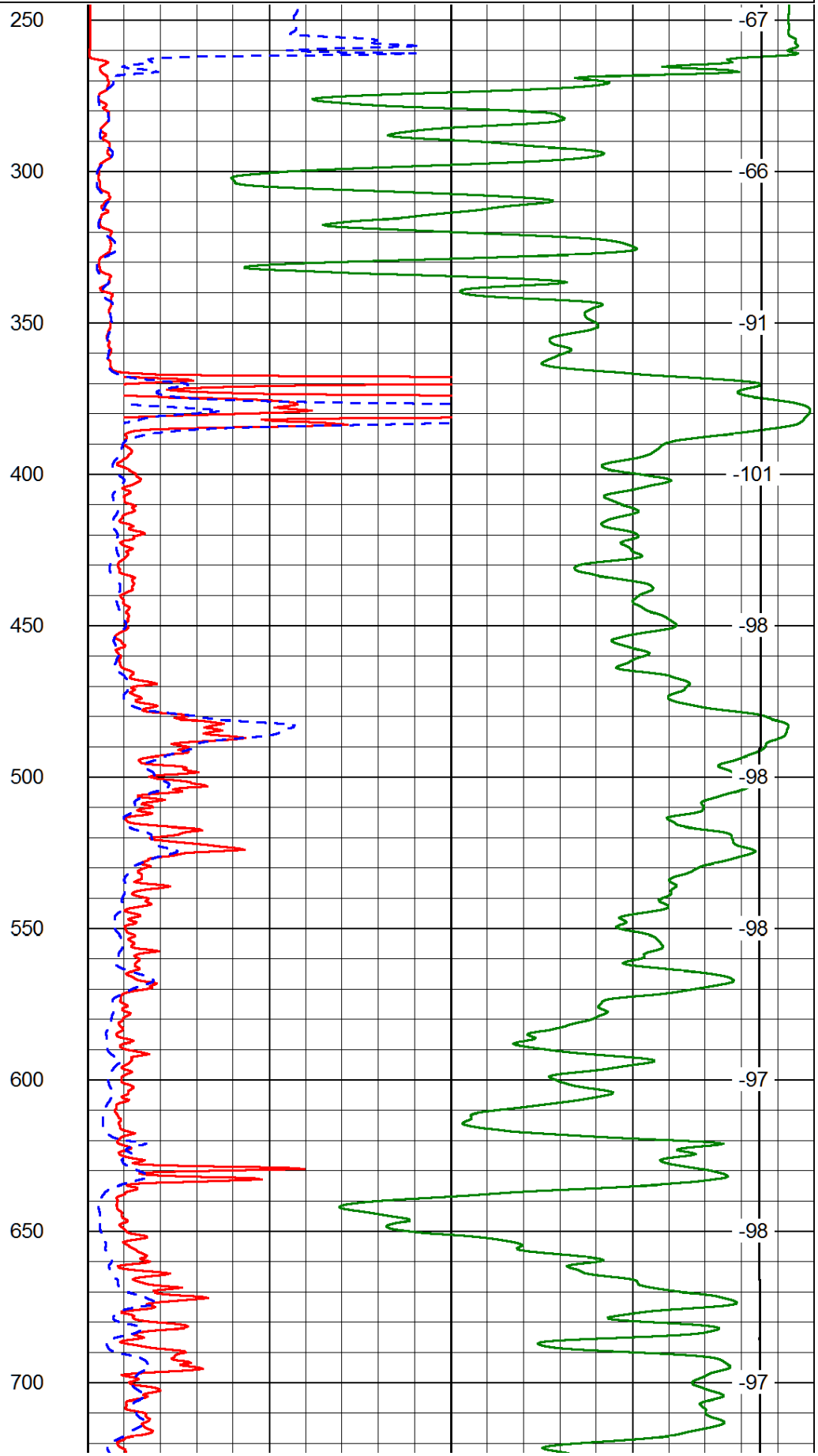
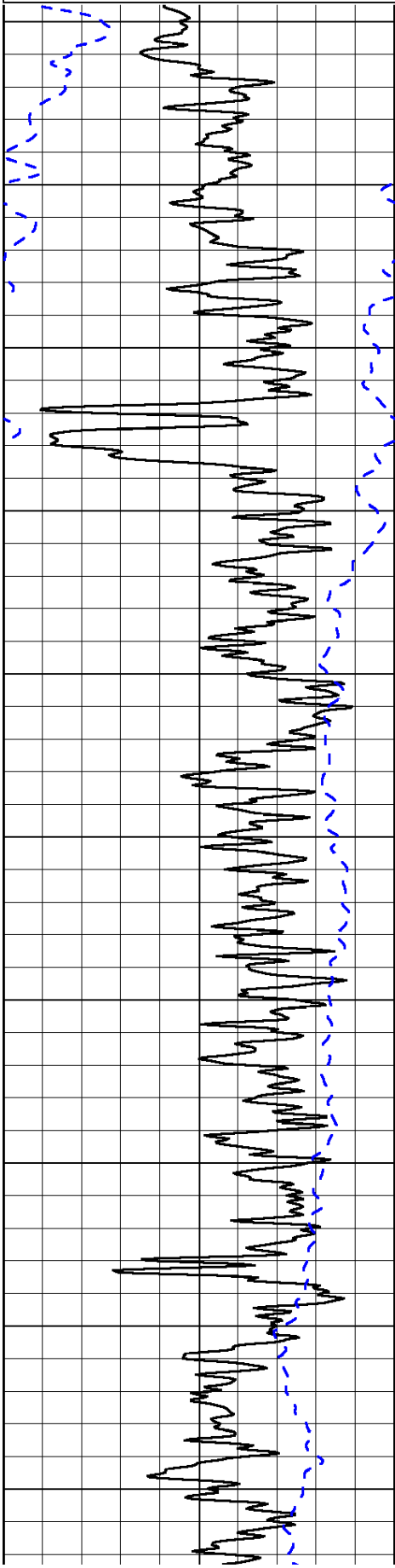
Raymond, KS:
1/2W, S into

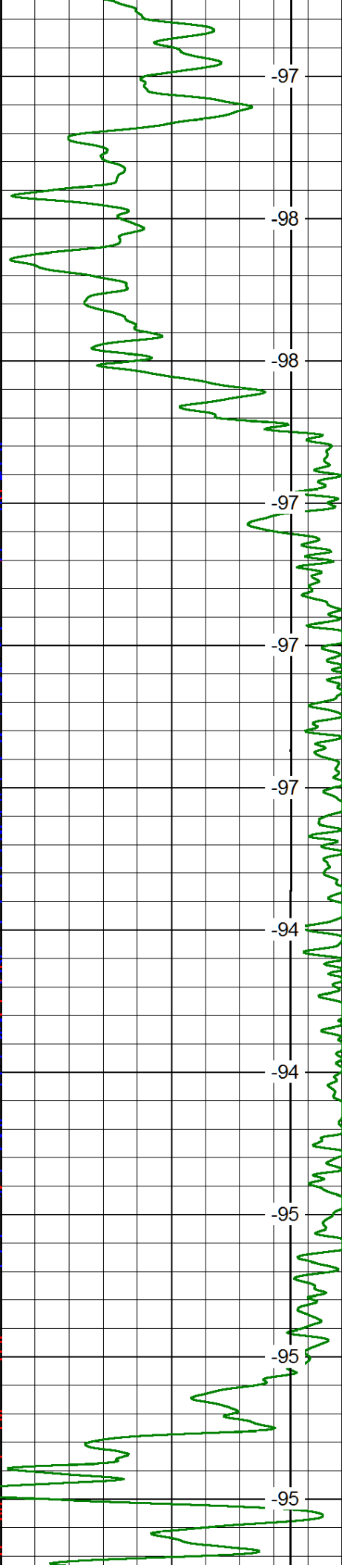
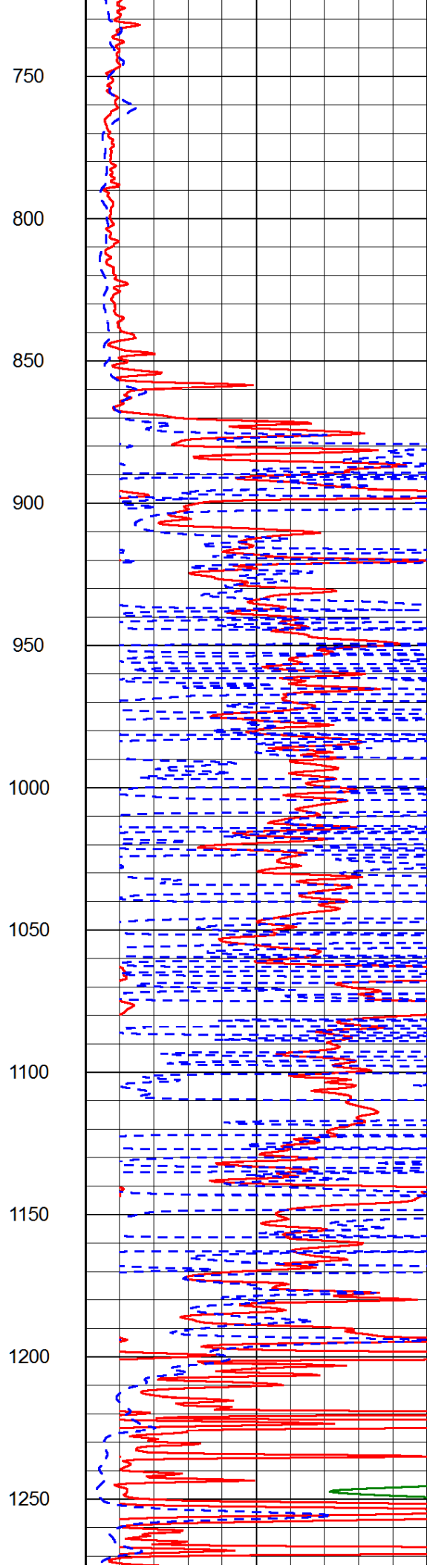
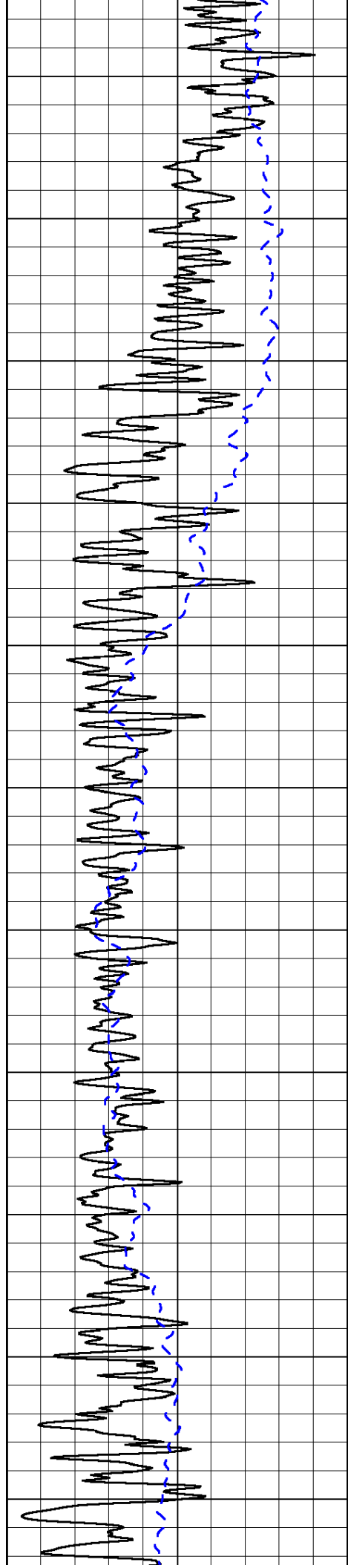
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Dataset Creation: Sun Dec 21 21:02:52 2014
Charted by: Depth in Feet scaled 1:600

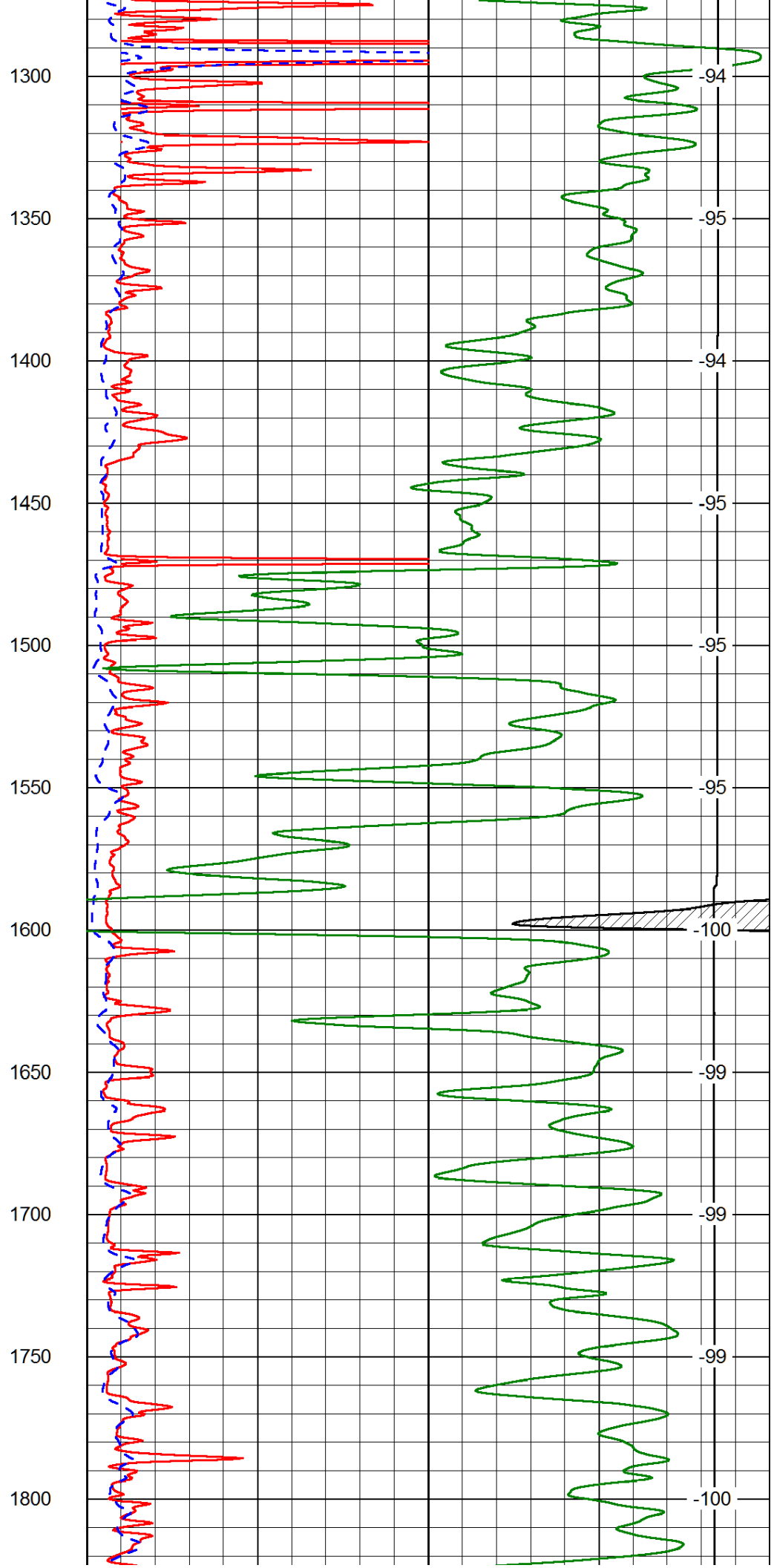
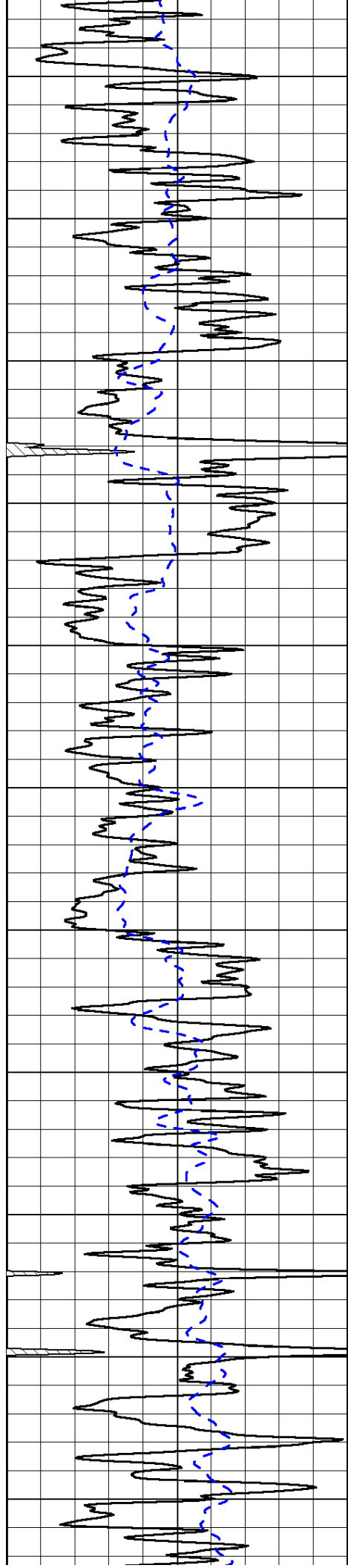
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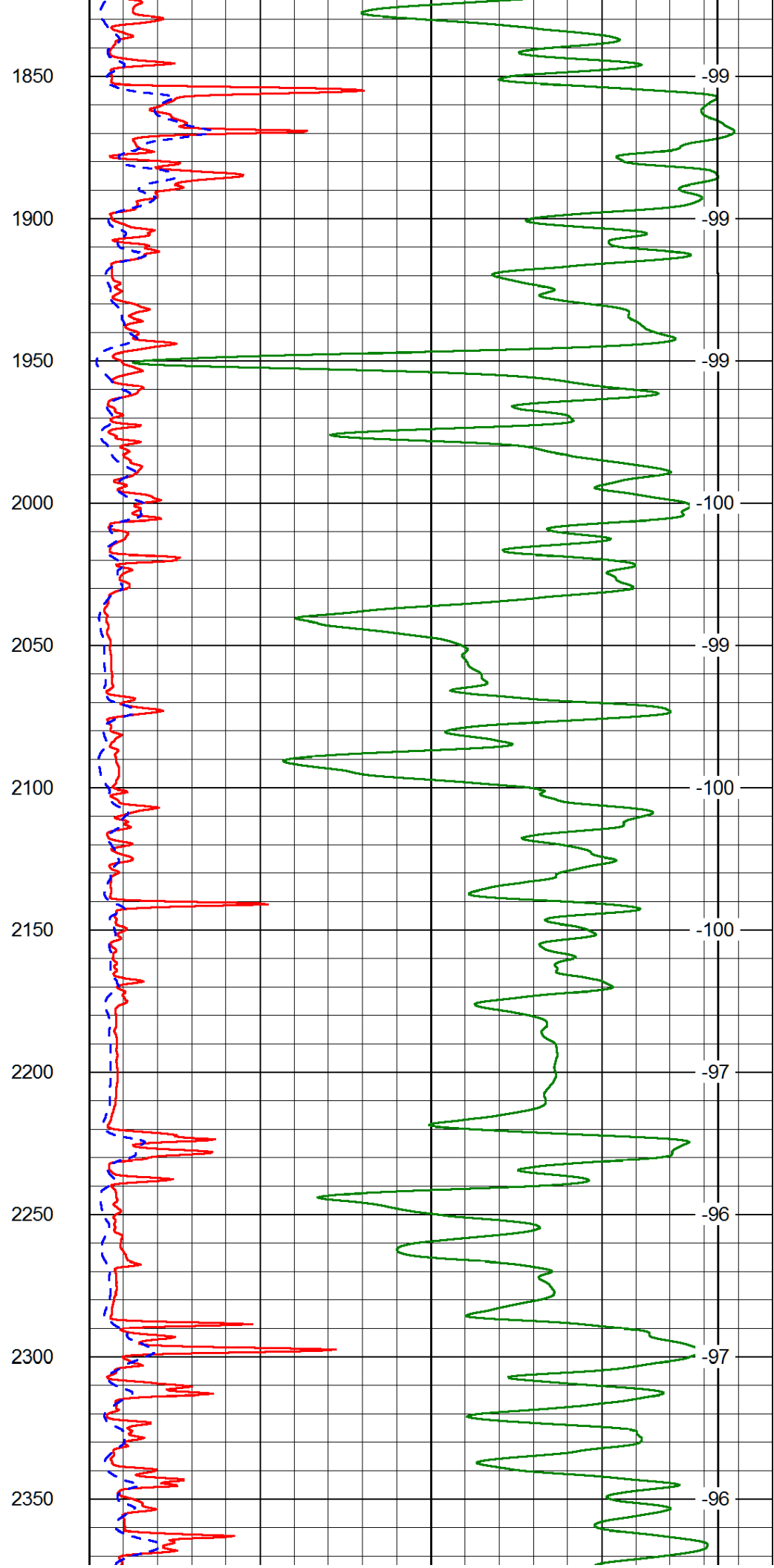
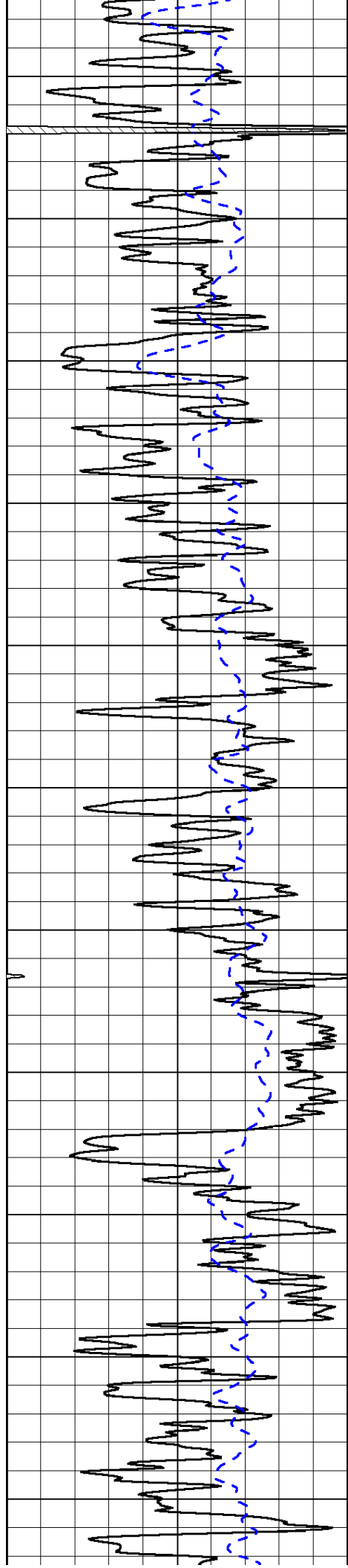
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

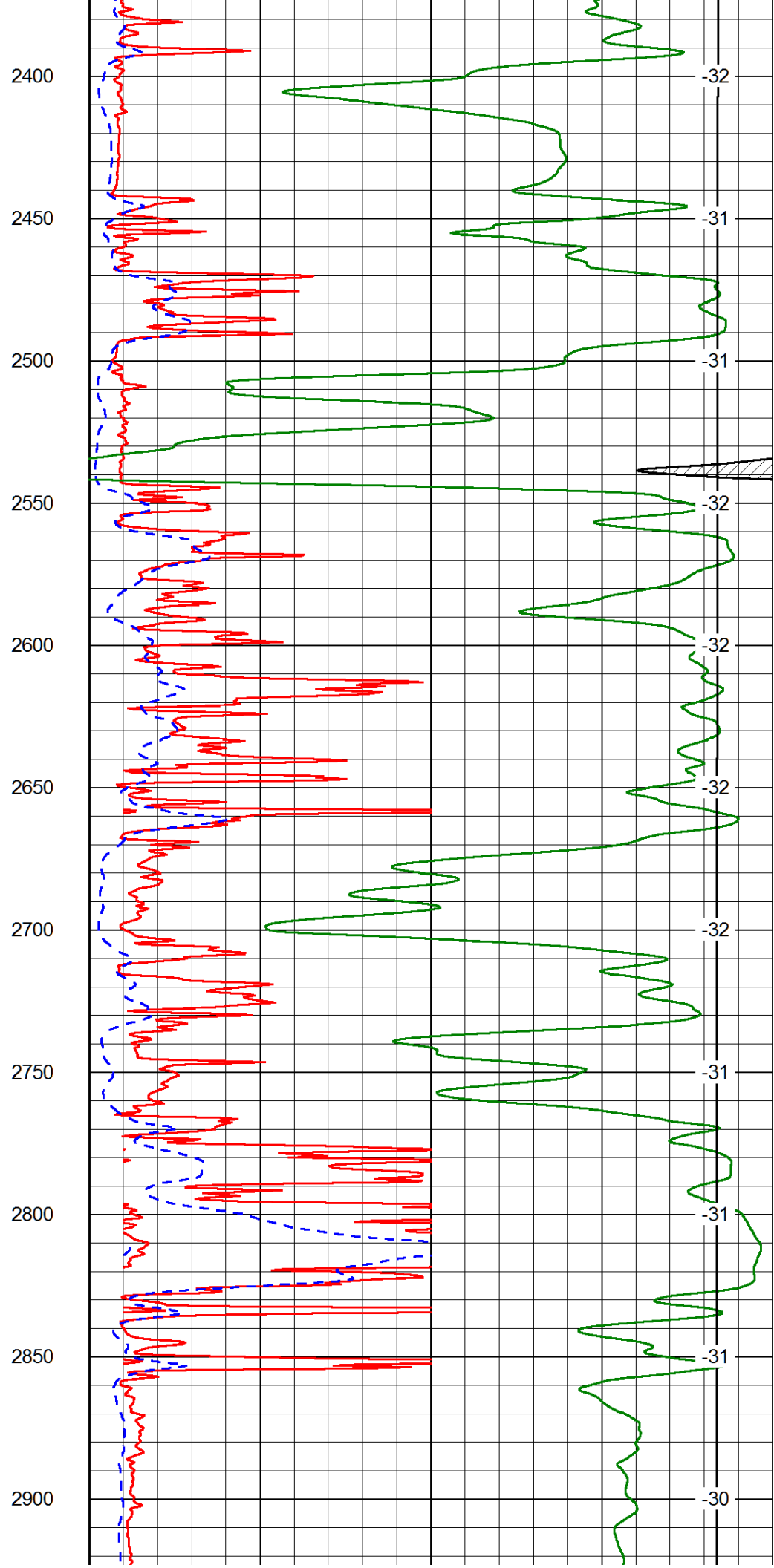
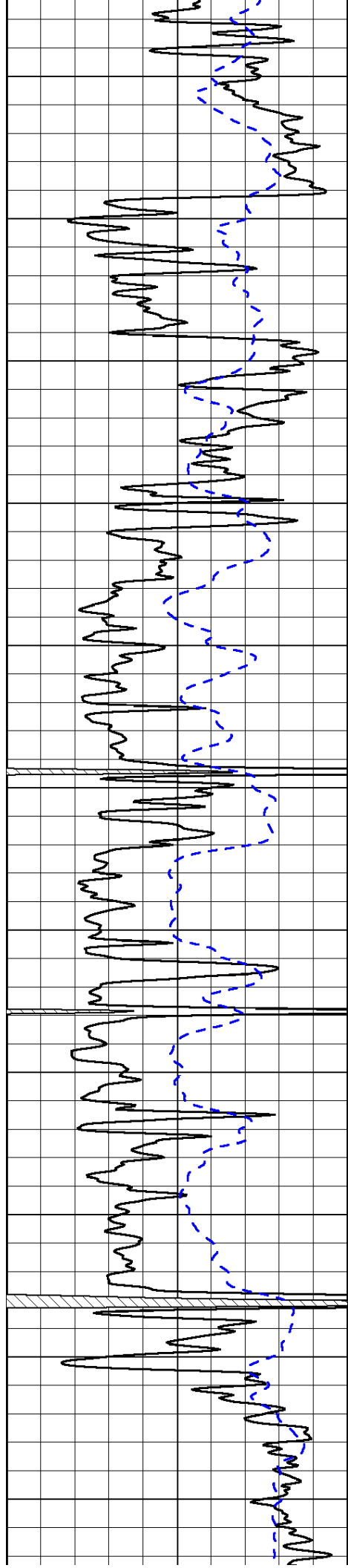
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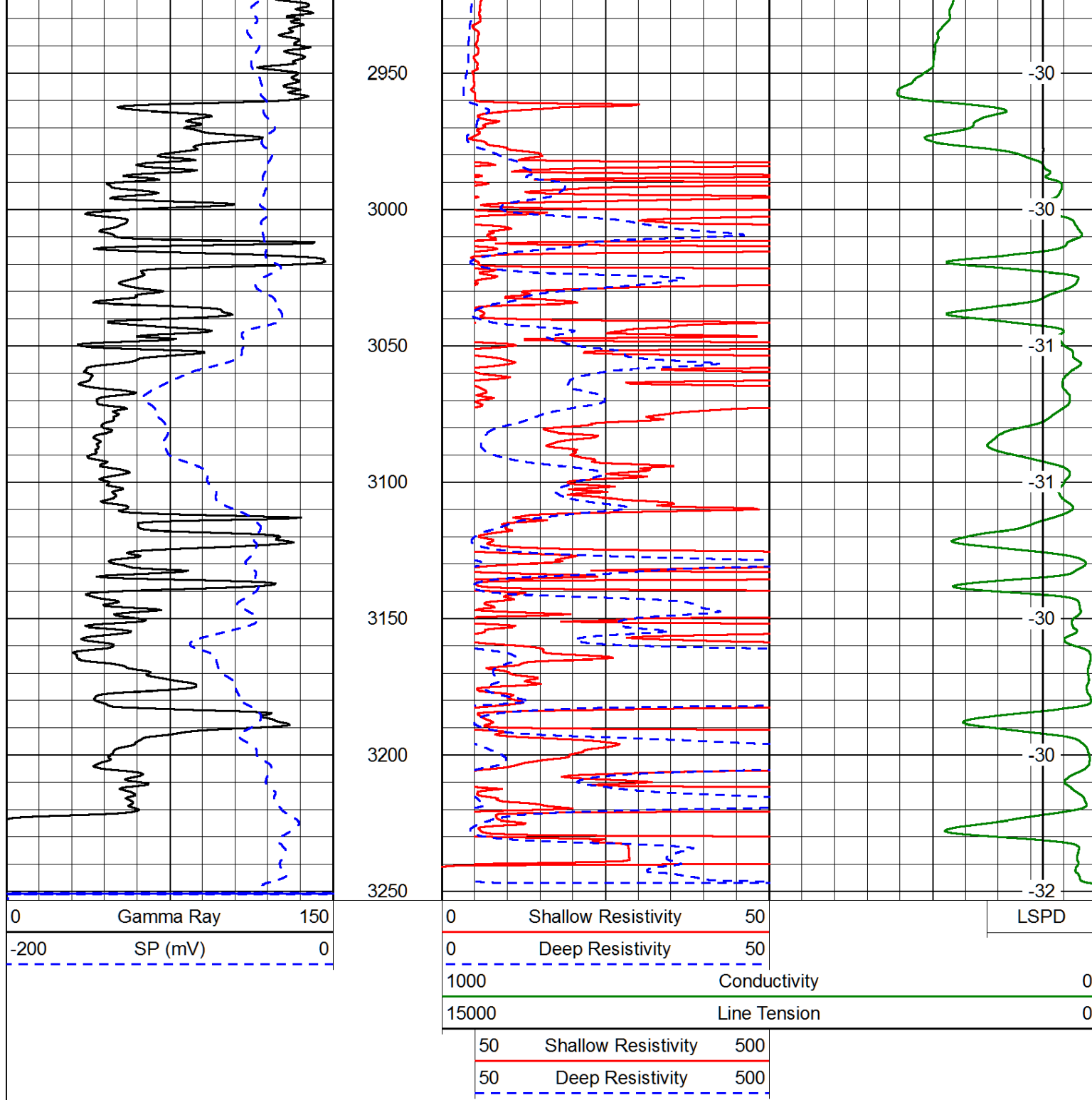




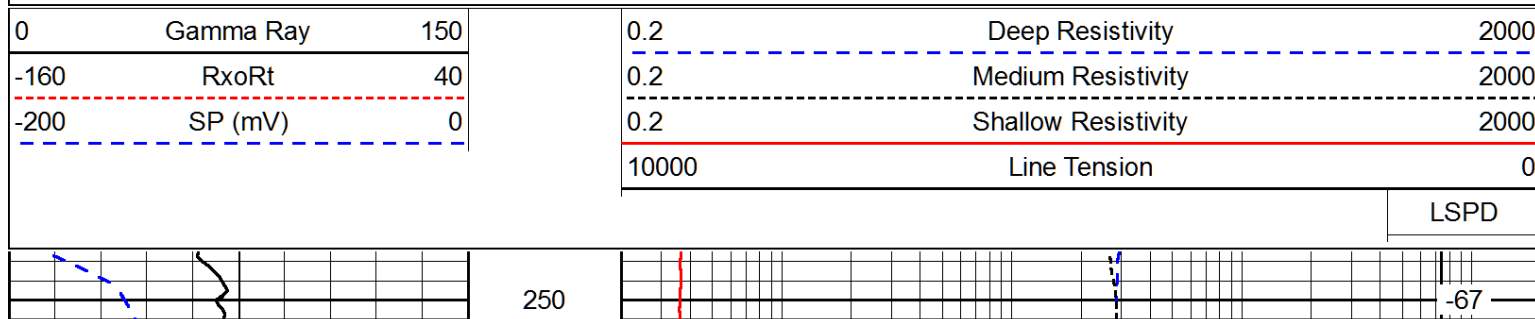


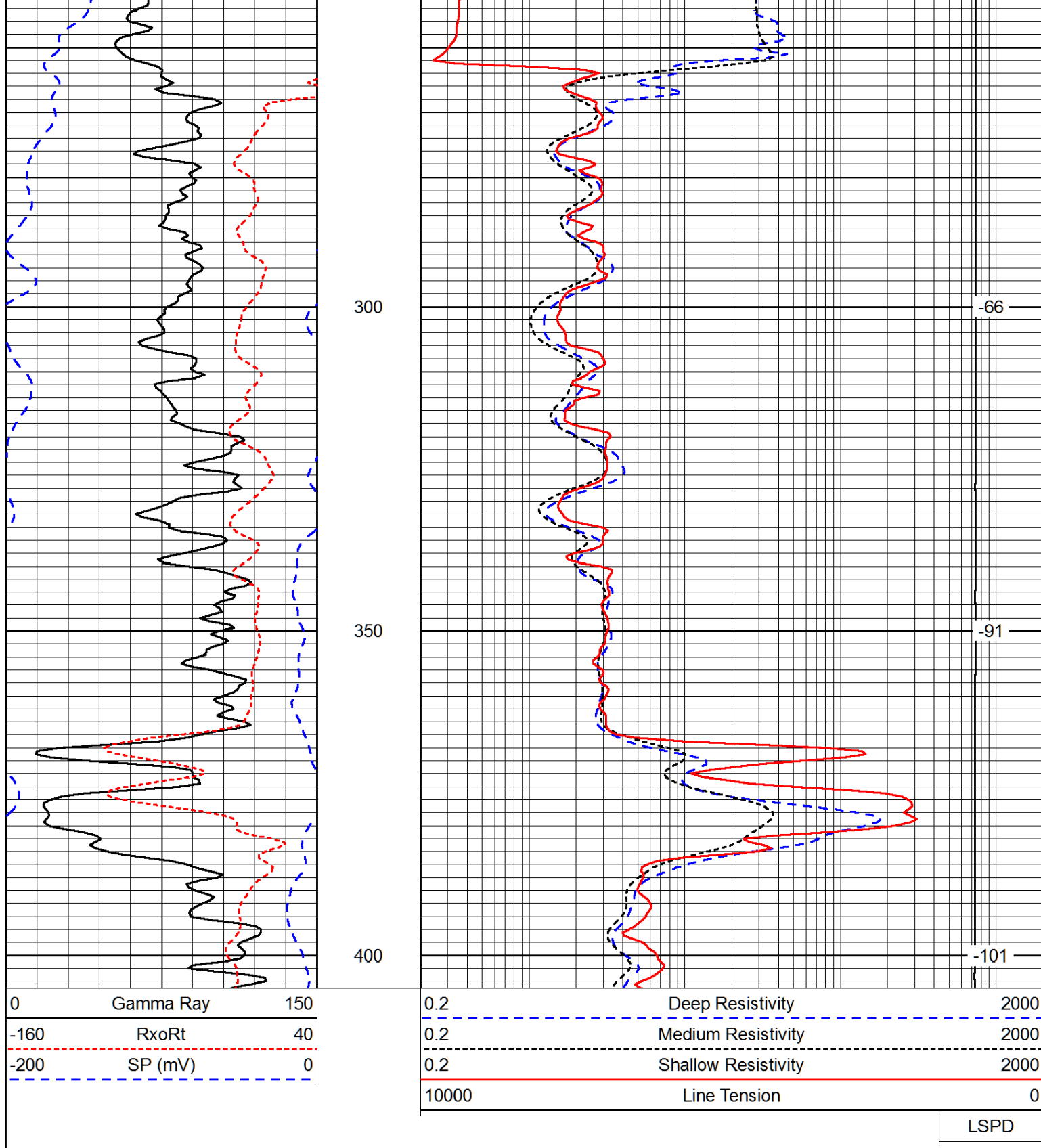




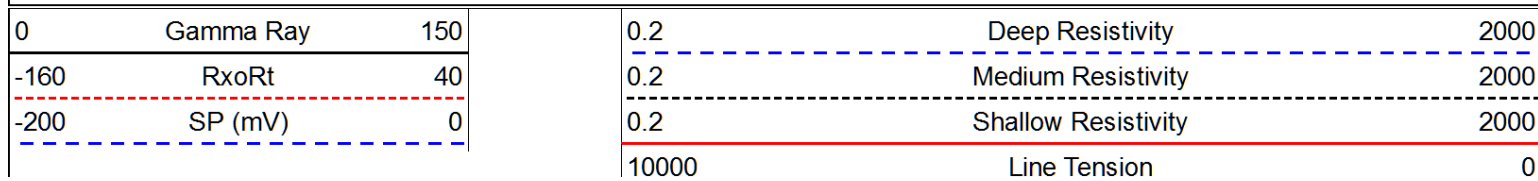


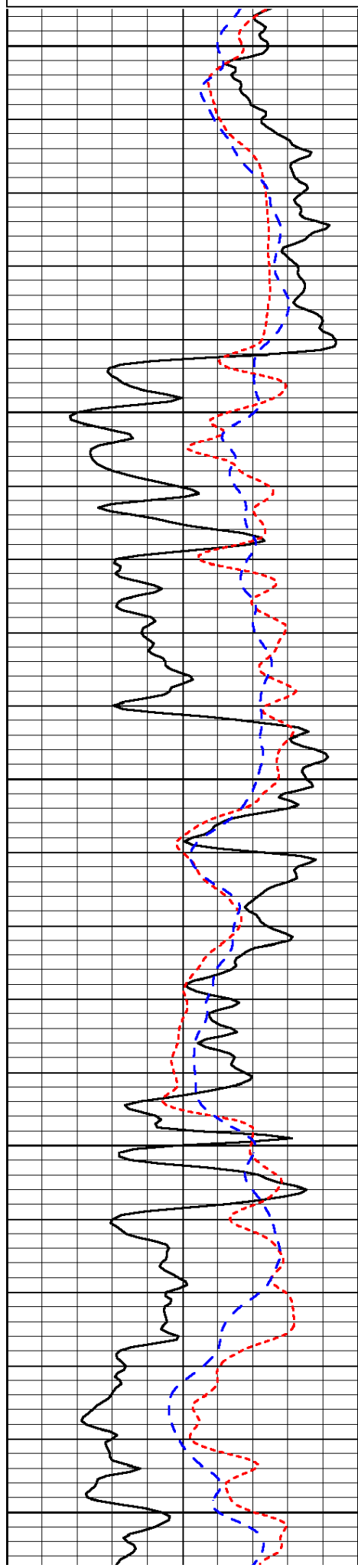
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 Charted by: Depth in Feet scaled 1:240





Database File: lebsack_hd.db
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Presentation Format: dil
Dataset Creation: Sun Dec 21 21:02:52 2014
Charted by: Depth in Feet scaled 1:240





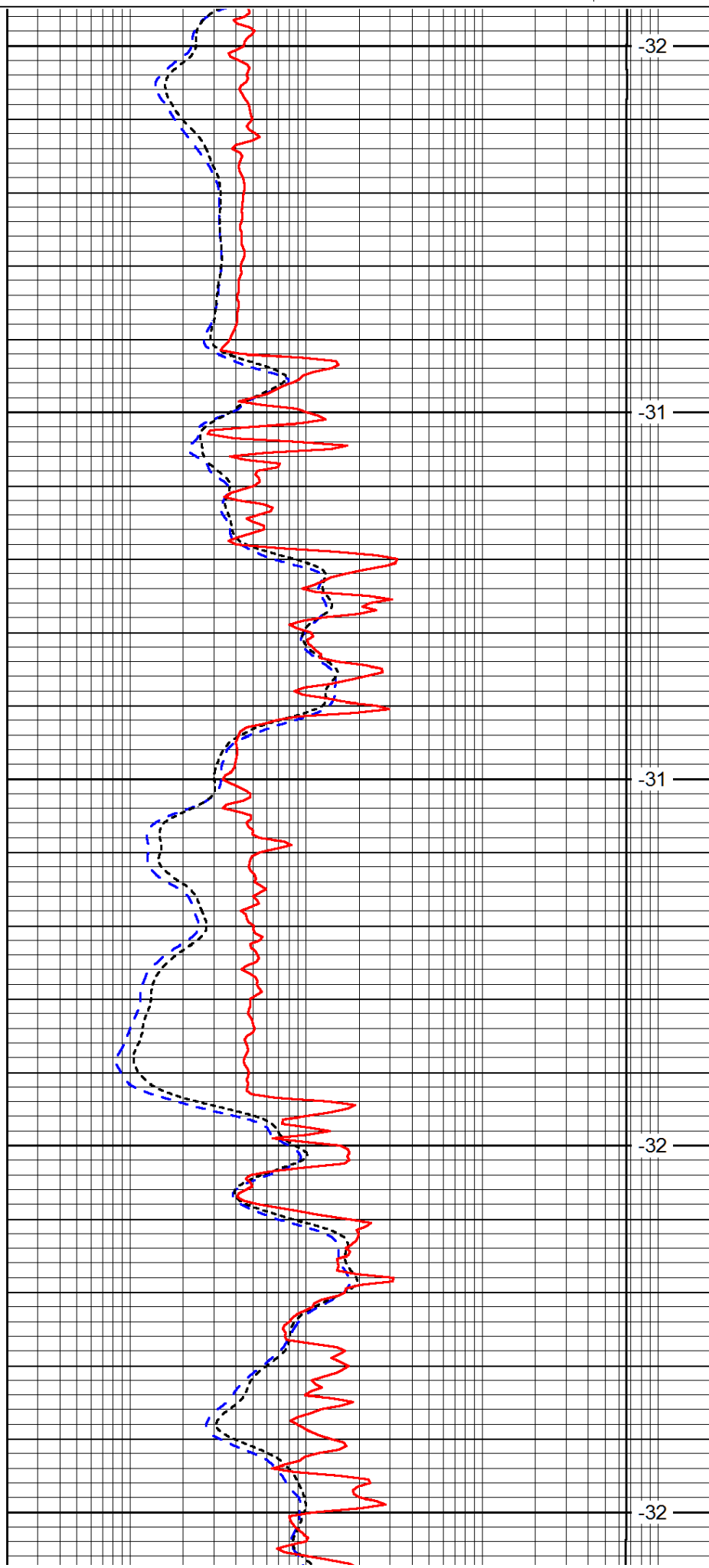
2400

2450

2500

2550

2600



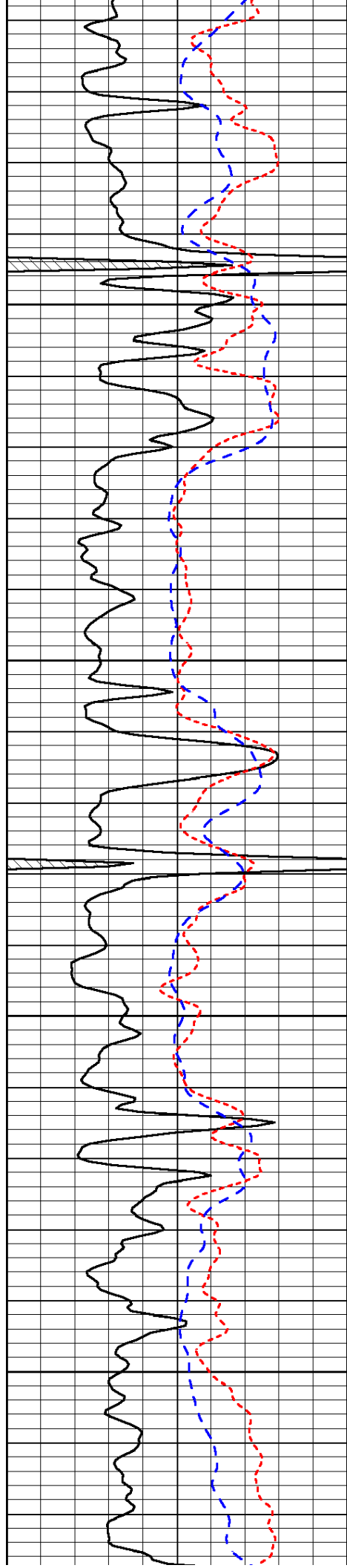
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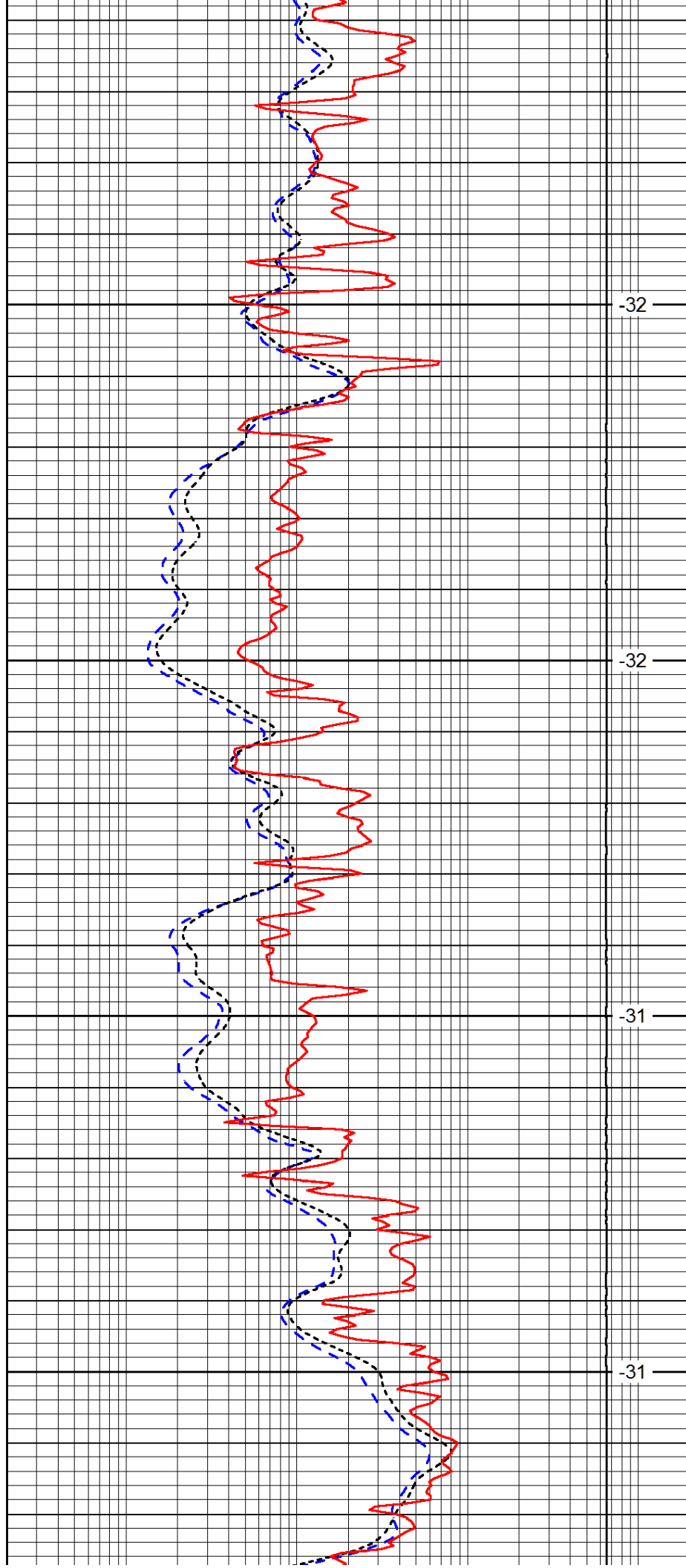


2650

2700

2750

2800

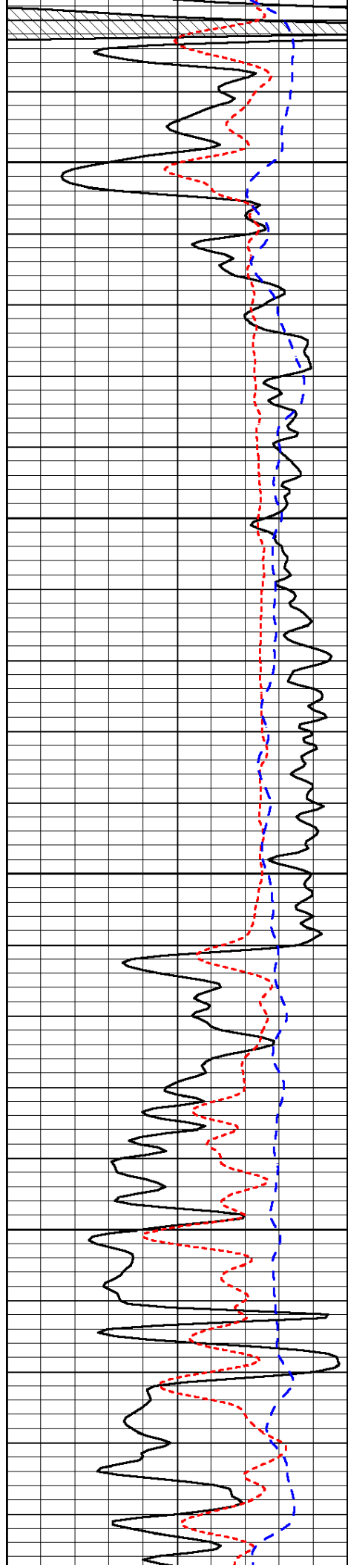


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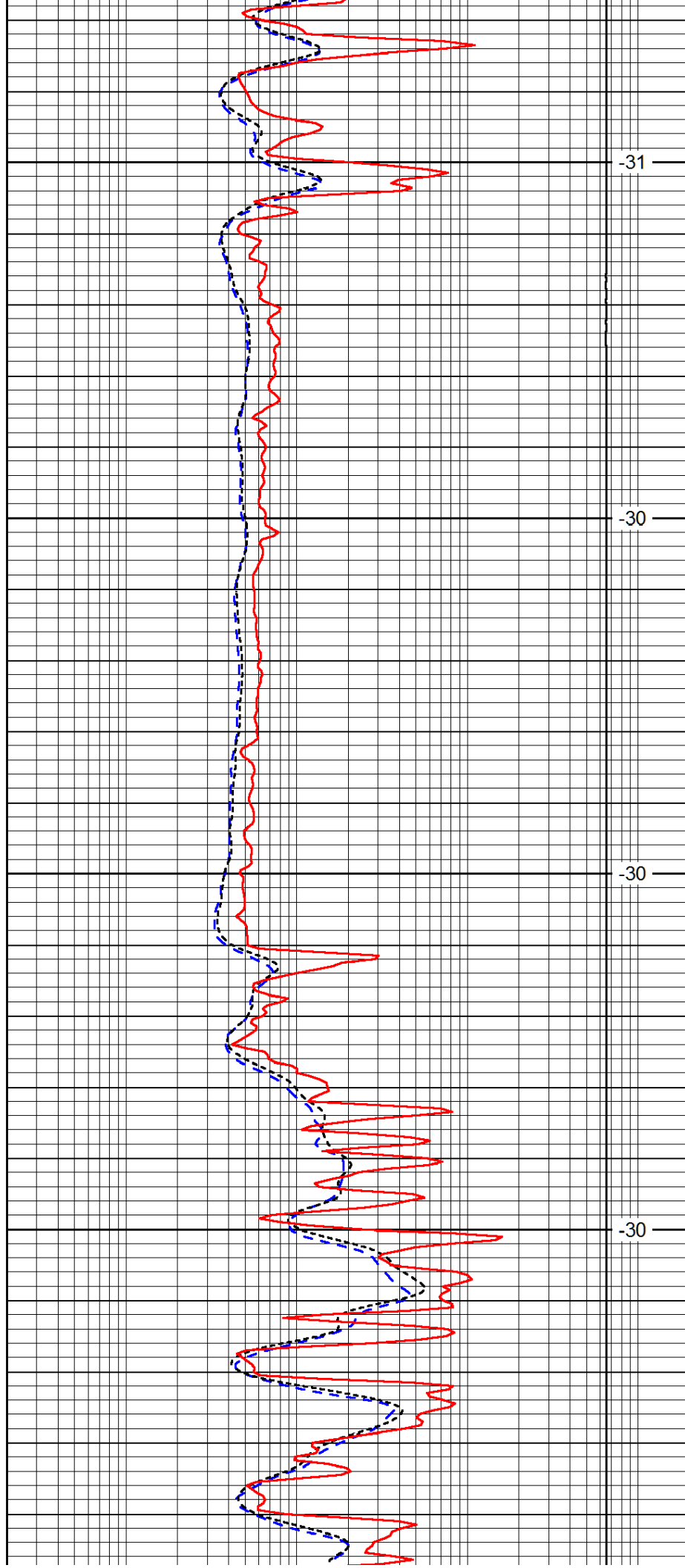


2850

2900

2950

3000

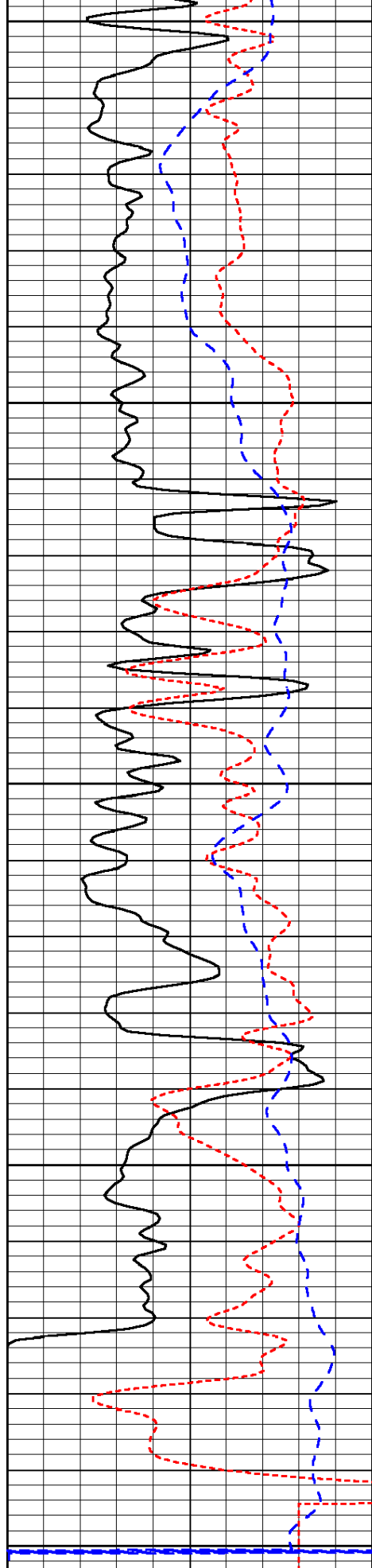


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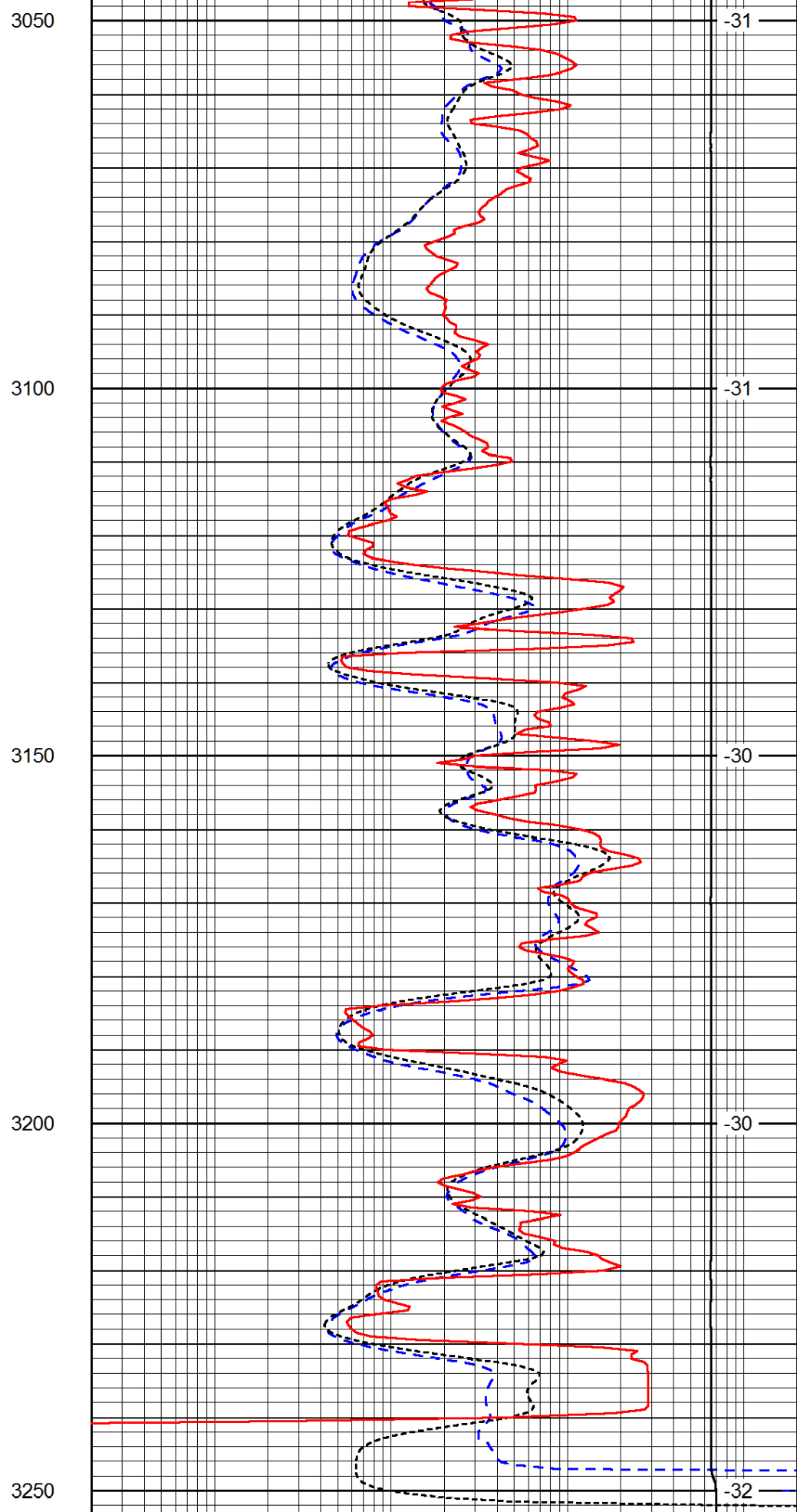
-30

-30

-30



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



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000

	10000	Line Tension	0
			LSPD