



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-147-20690-00-00

Company **Bach Oil Production**

Well **Krafft #1**

Field **Wildcat**

County **Phillips** State

Kansas

Location

**NE NE SW SW
1020' FSL / 1000' FWL**

Sec: **11** Twp: **1S** Rge: **19W**

Other Services

CNL / CDL

Permanent Datum **Ground Level** Elevation **2118**

Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum

K.B. 2023
D.F. G.L. 2118

Date **9/15/2012**

Run Number **One**

Depth Driller **3618**

Depth Logger **3618**

Bottom Logged Interval **3617**

Top Log Interval **200**

Casing Driller **8.625 @ 234**

Casing Logger **230**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **1000**

Density / Viscosity **9.3 48**

pH / Fluid Loss **10.5 8.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **1.00 @ 76**

Rmf @ Meas. Temp **0.75 @ 76**

Rmc @ Meas. Temp **1.35 @ 76**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.68 @ 112**

Operating Rig Time **3 Hours**

Max Rec. Temp. F **112**

Equipment Number **15**

Location **Hays**

Recorded By **R. Barnhart**

Witnessed By **Bob Petersen**

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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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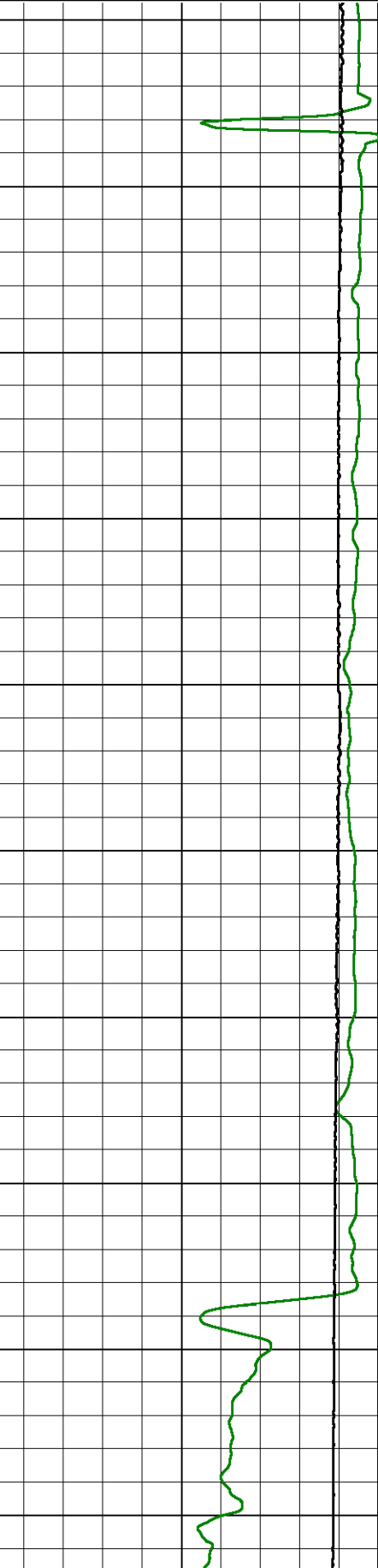
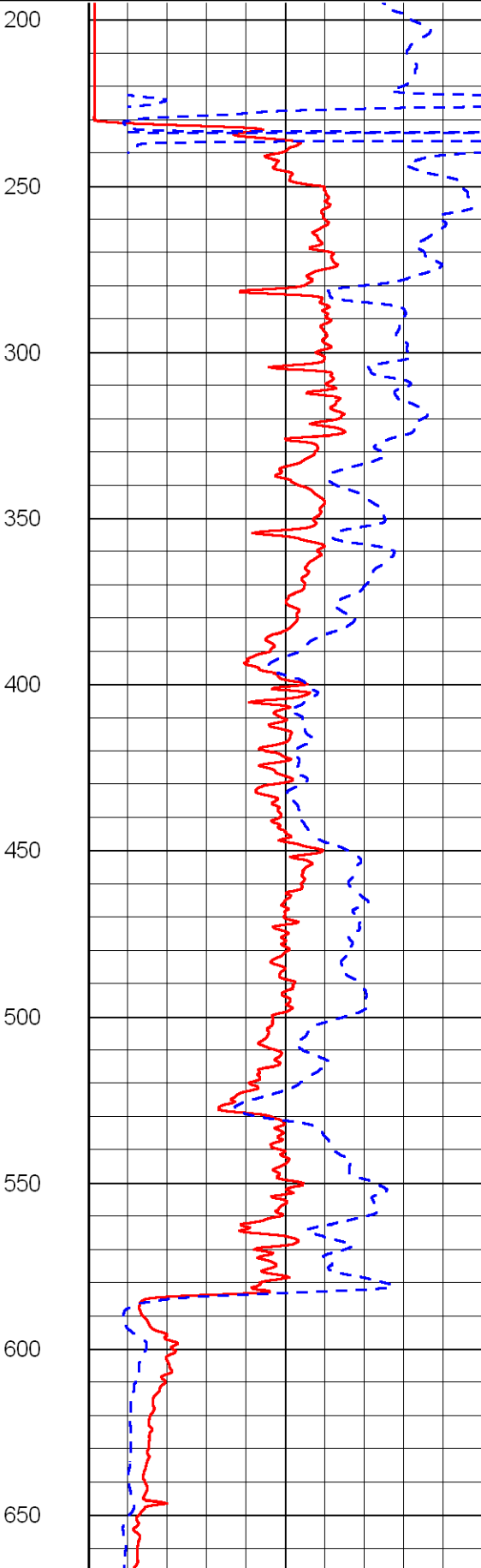
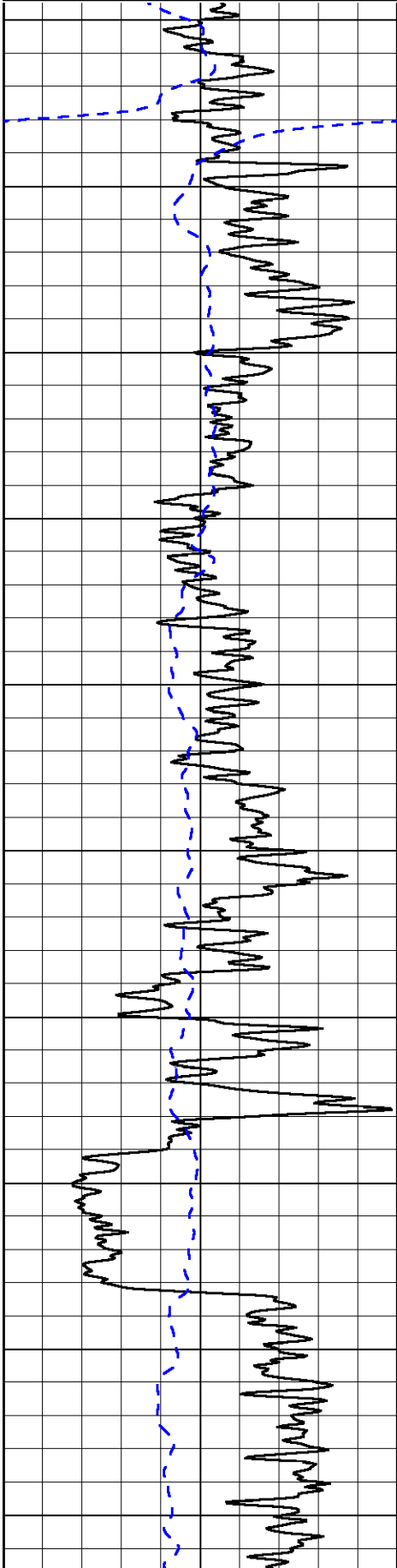
Phillipsburg, KS:
N to Hwy 183 & Hwy 383: 4W, 1S, 1/2E, N into

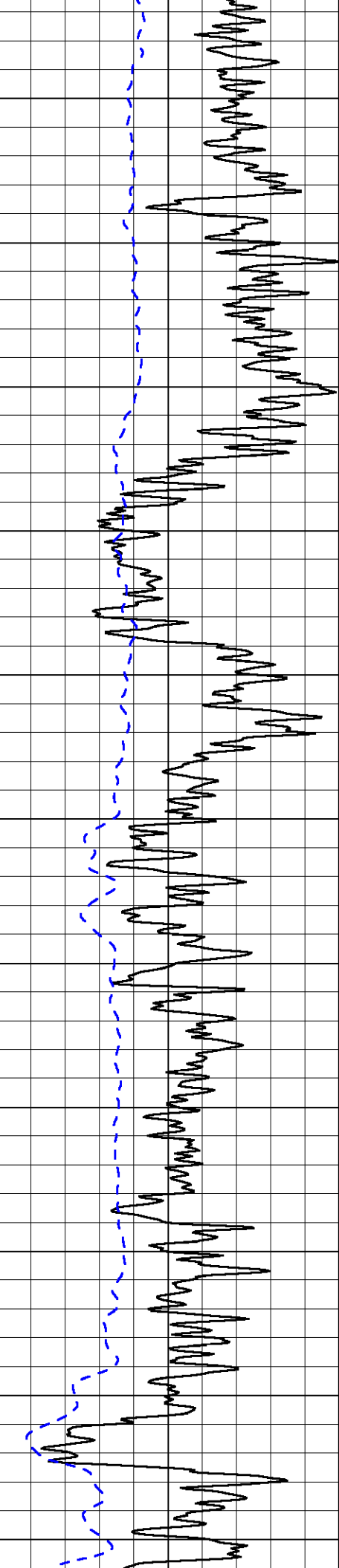
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Presentation Format: dil2in
Dataset Creation: Sat Sep 15 22:18:20 2012
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP	0

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

50	Shallow Resistivity	500
50	Deep Resistivity	500





700

750

800

850

900

950

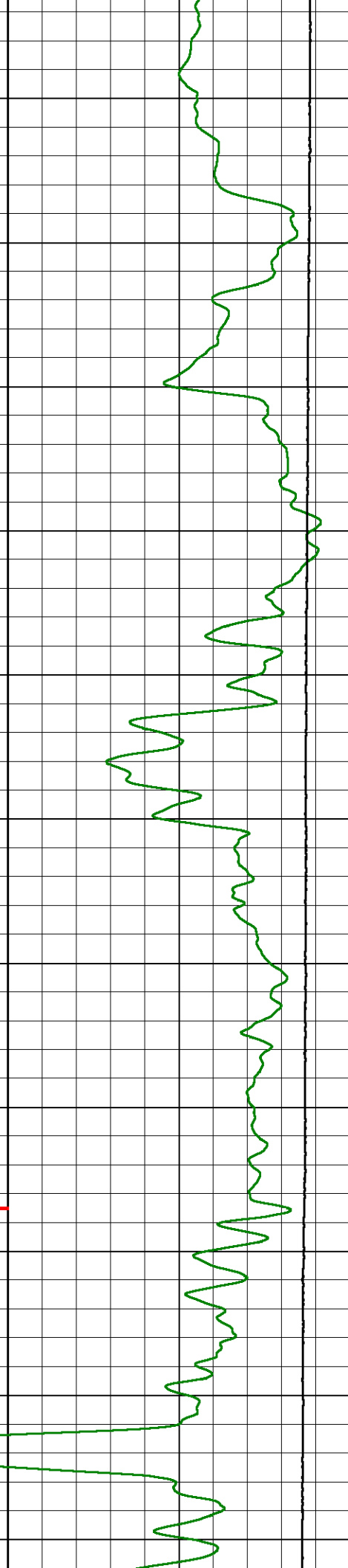
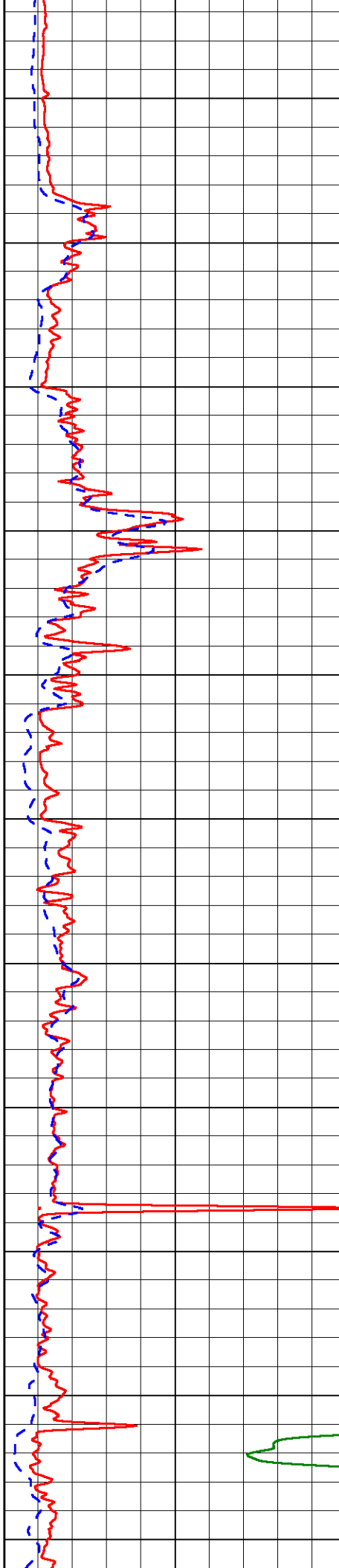
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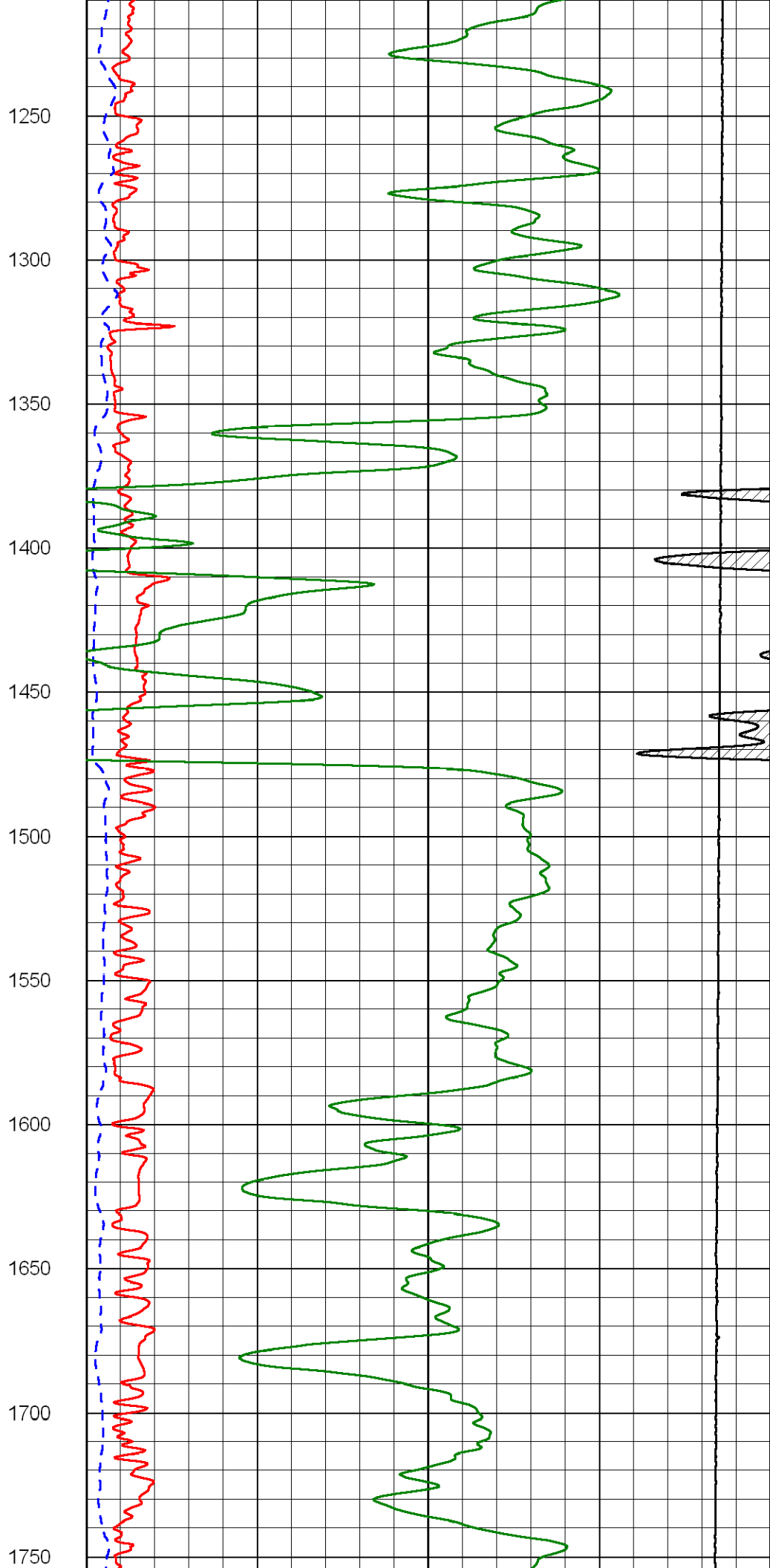
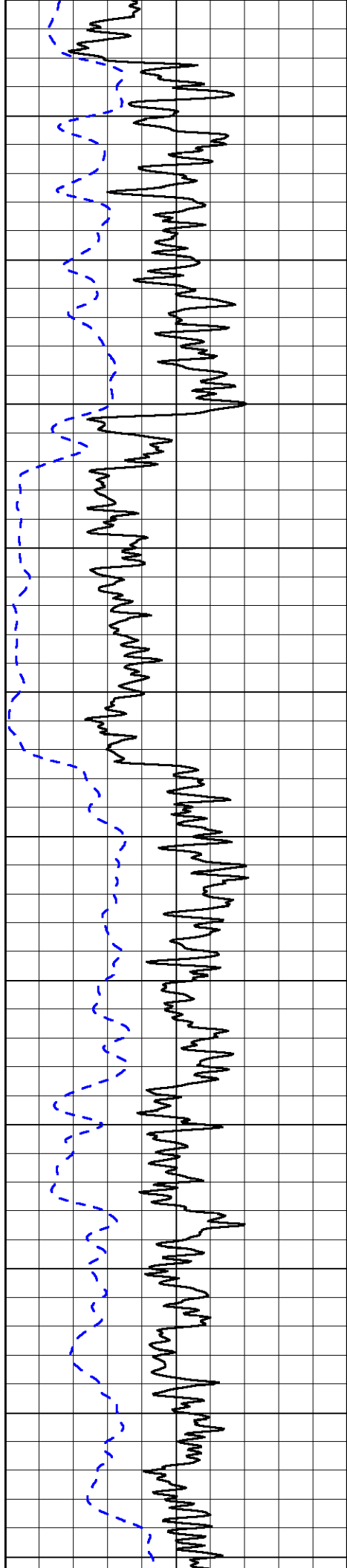
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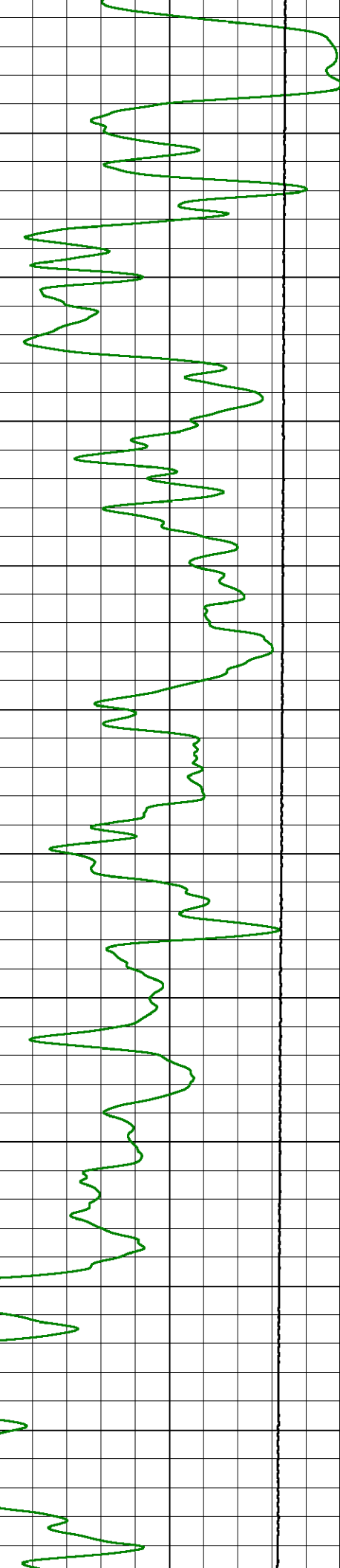
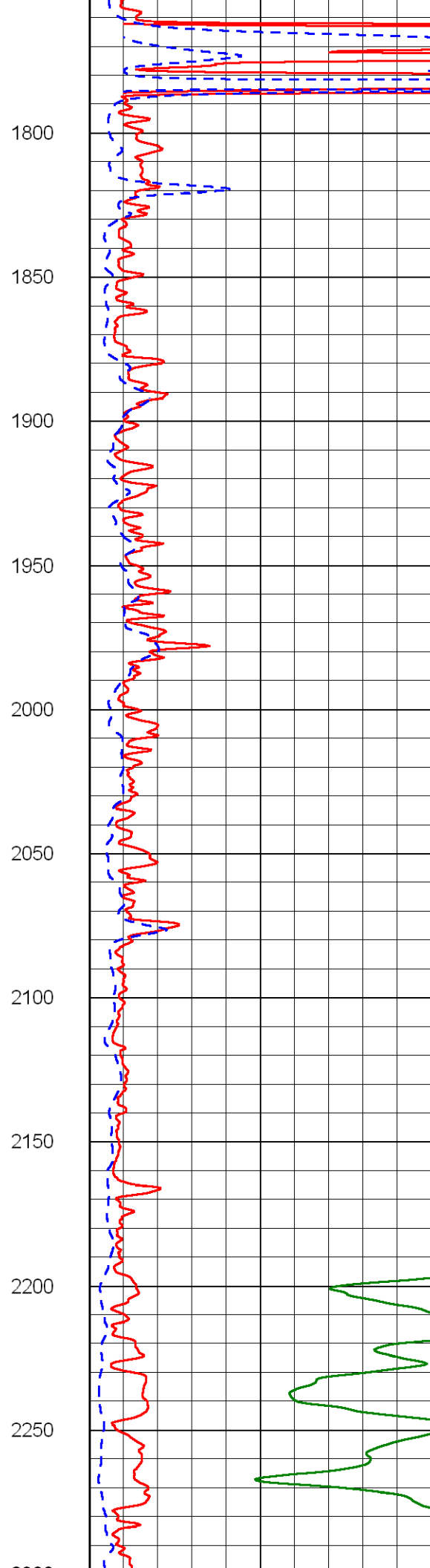
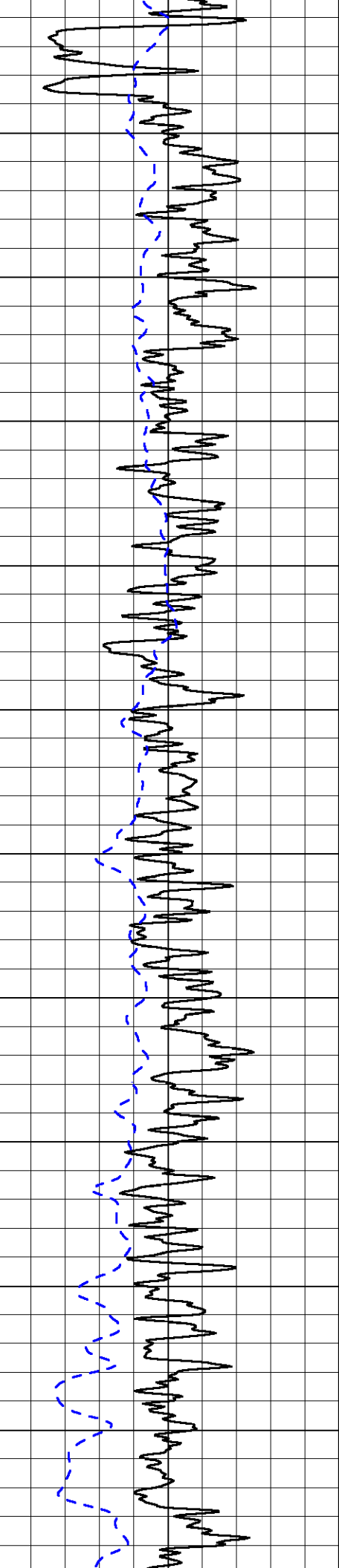
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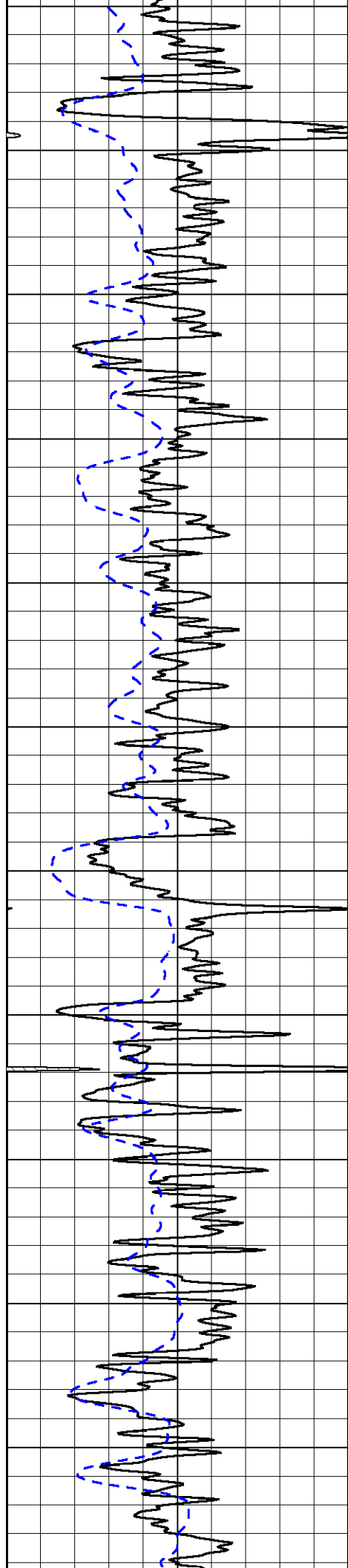
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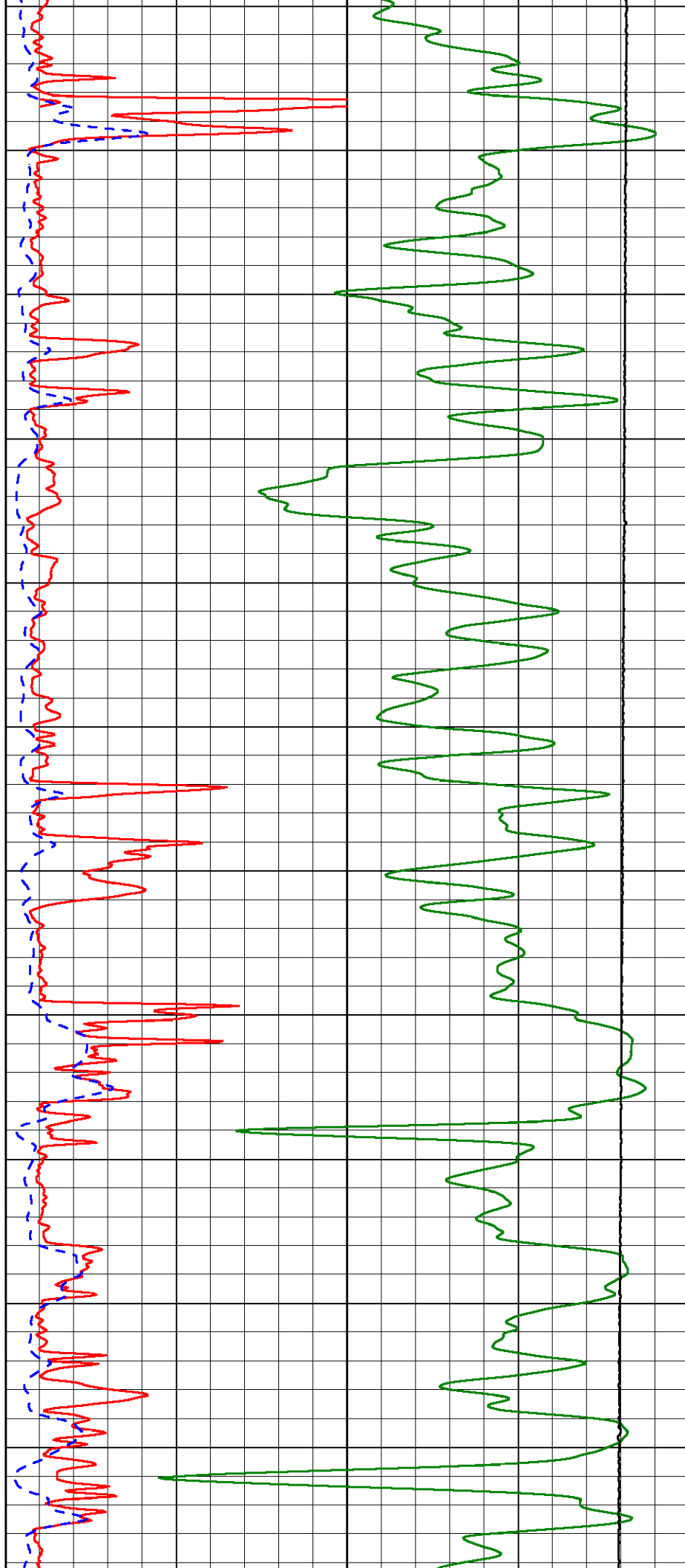


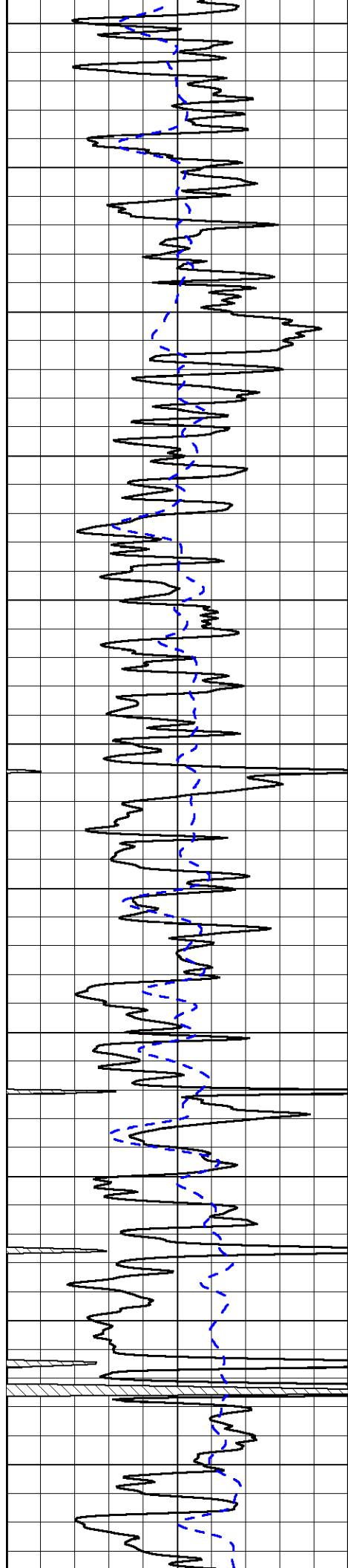






2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800





2850

2900

2950

3000

3050

3100

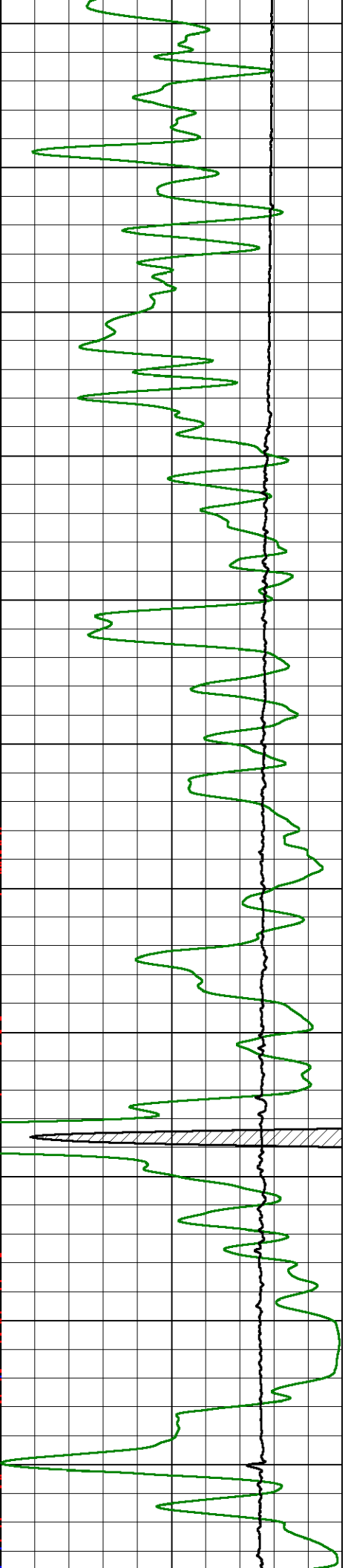
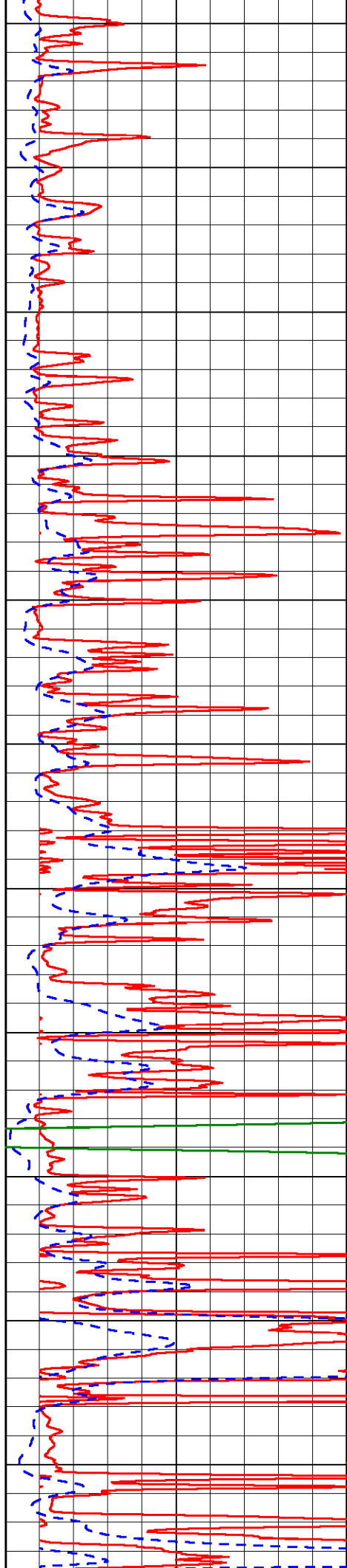
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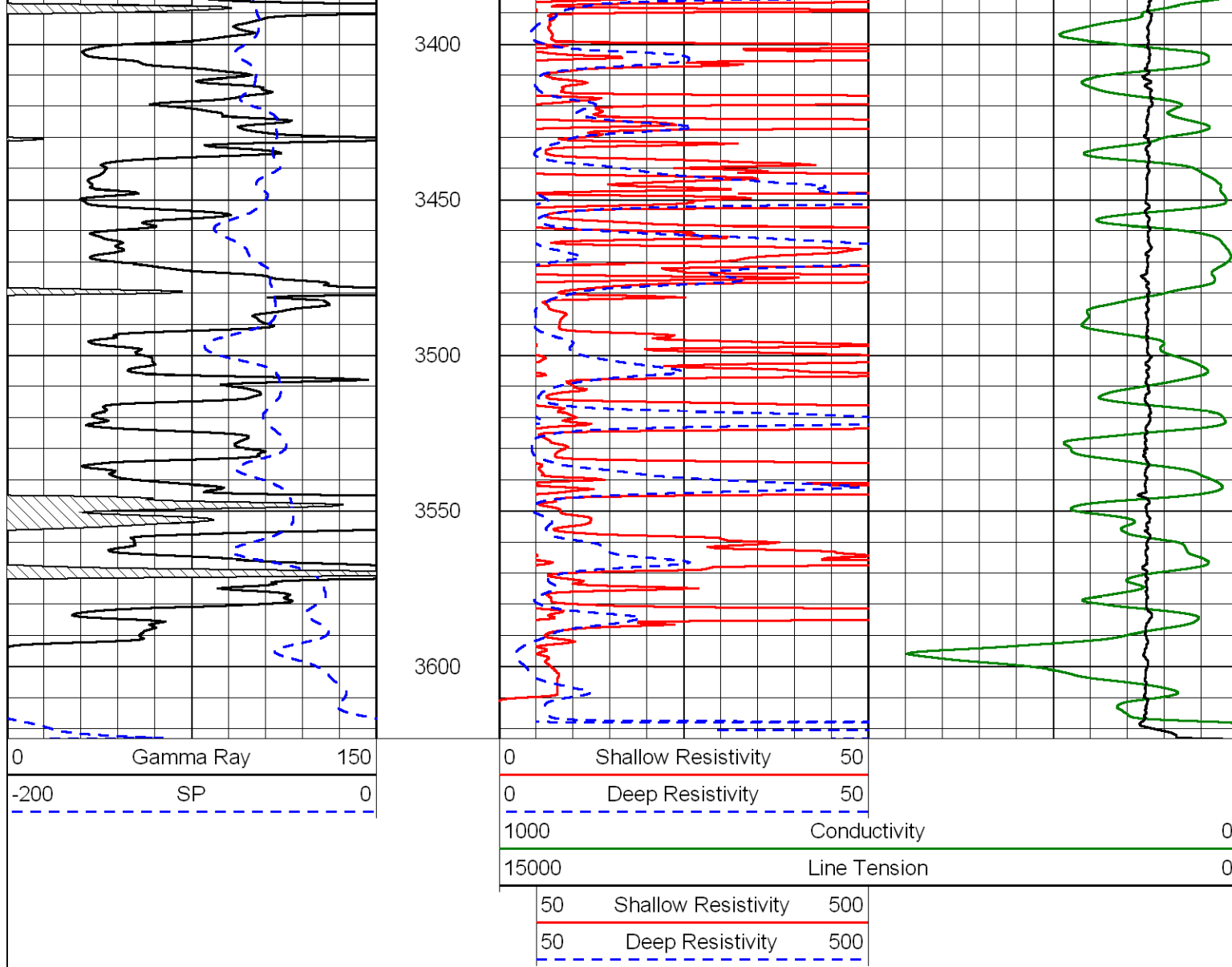
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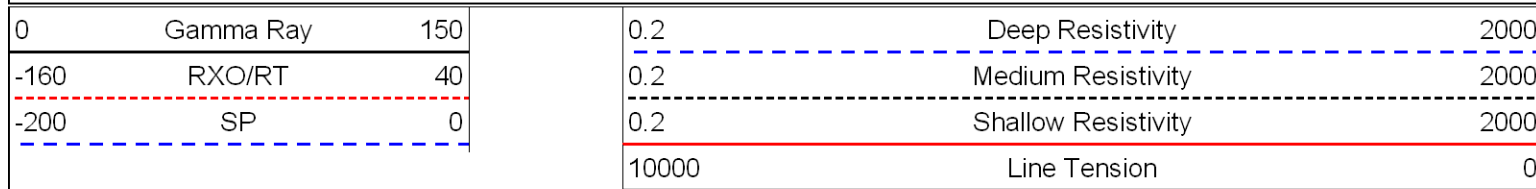
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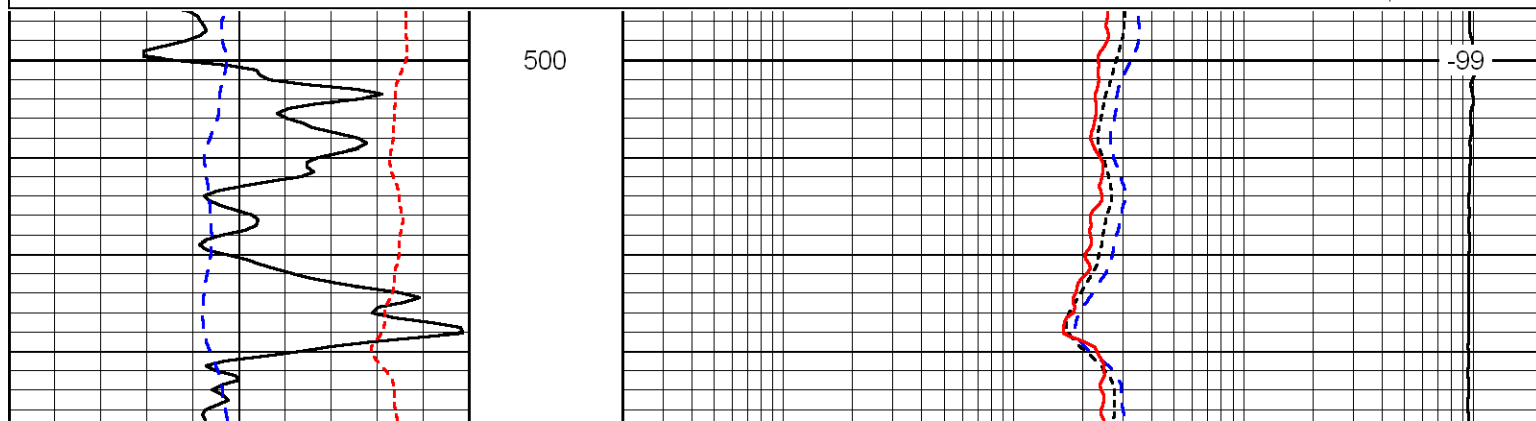


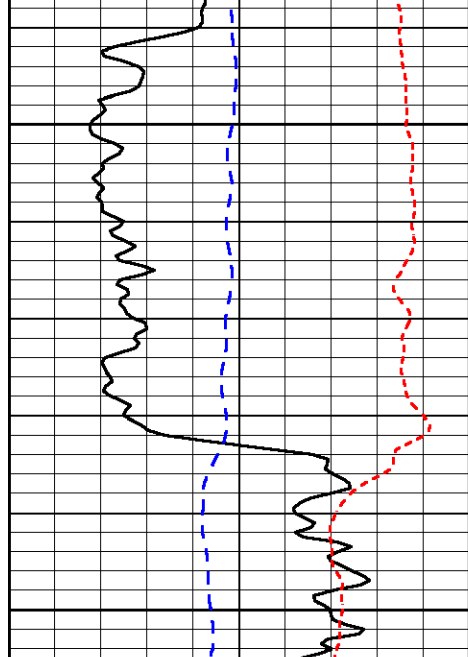


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LSPD

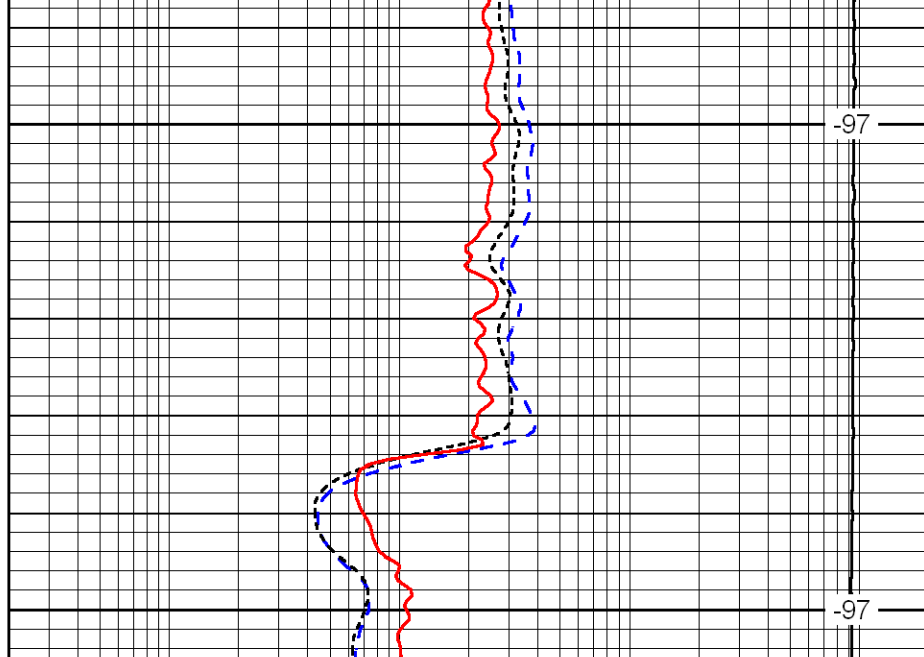




550

600

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



-97

-97

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

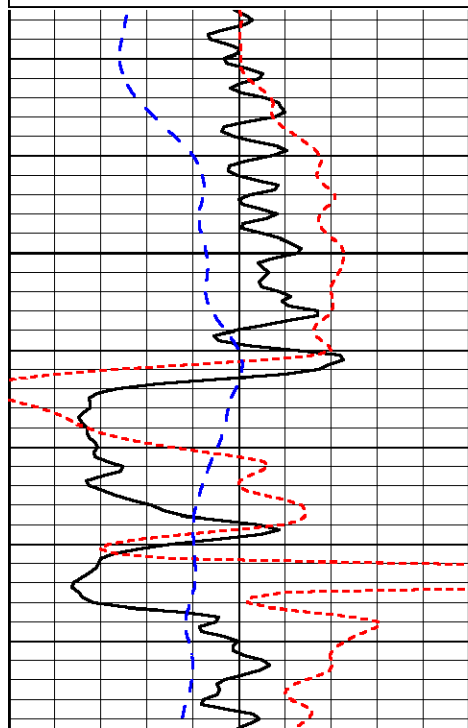
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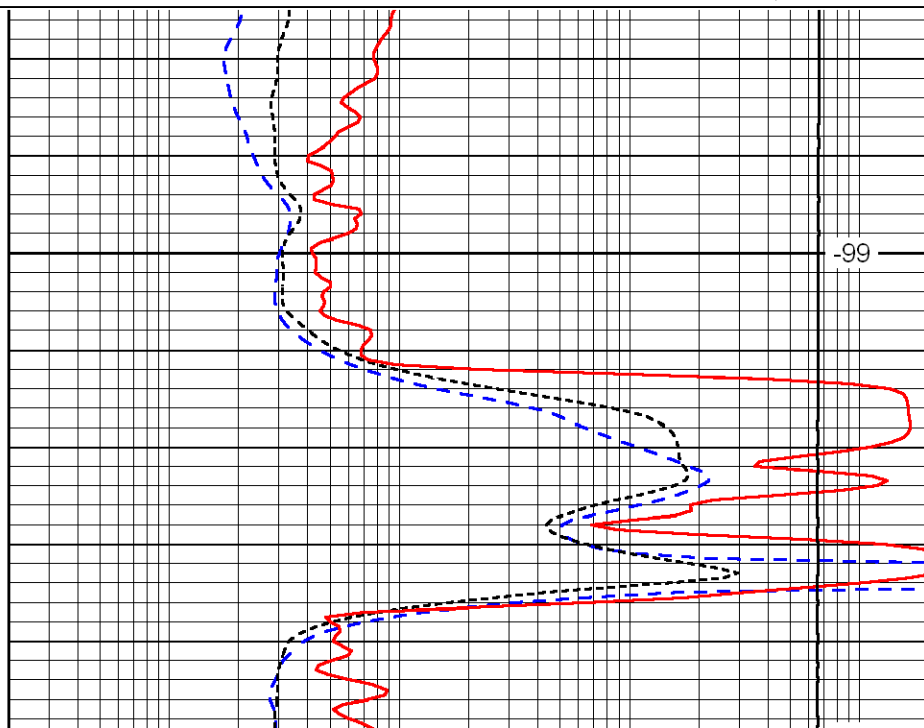
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-160	RXO/RT	40
-200	SP	0

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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

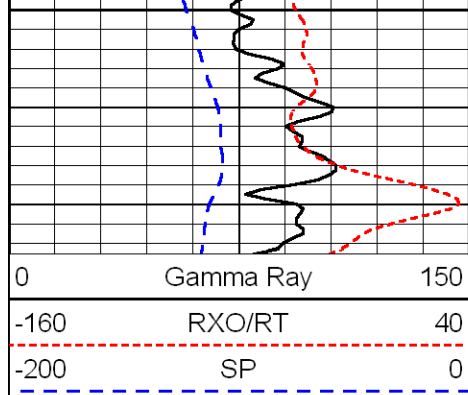
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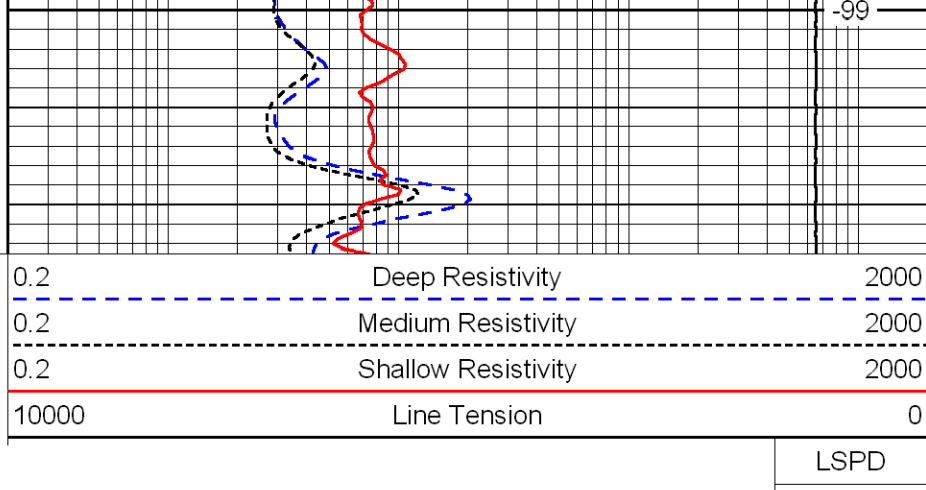
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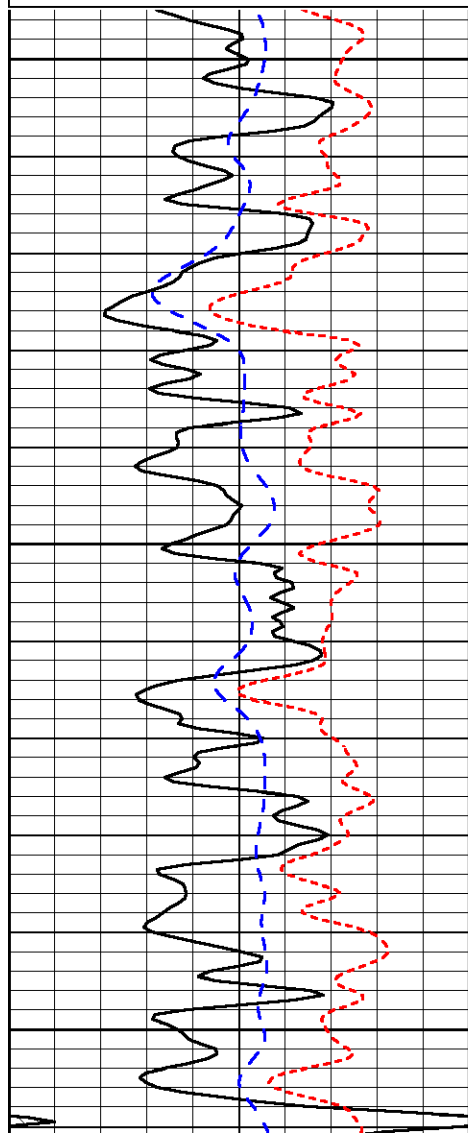
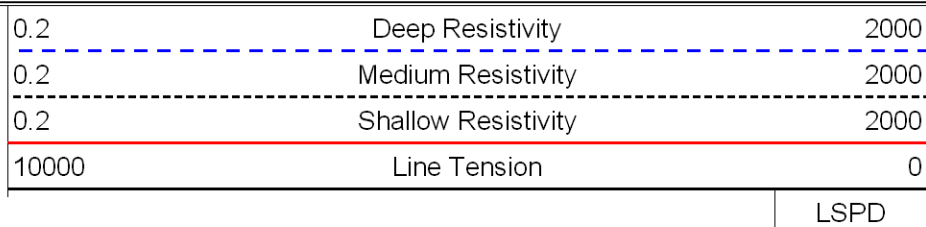
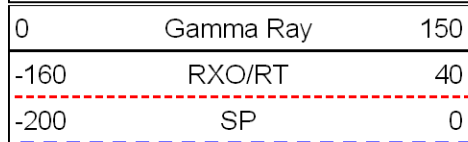
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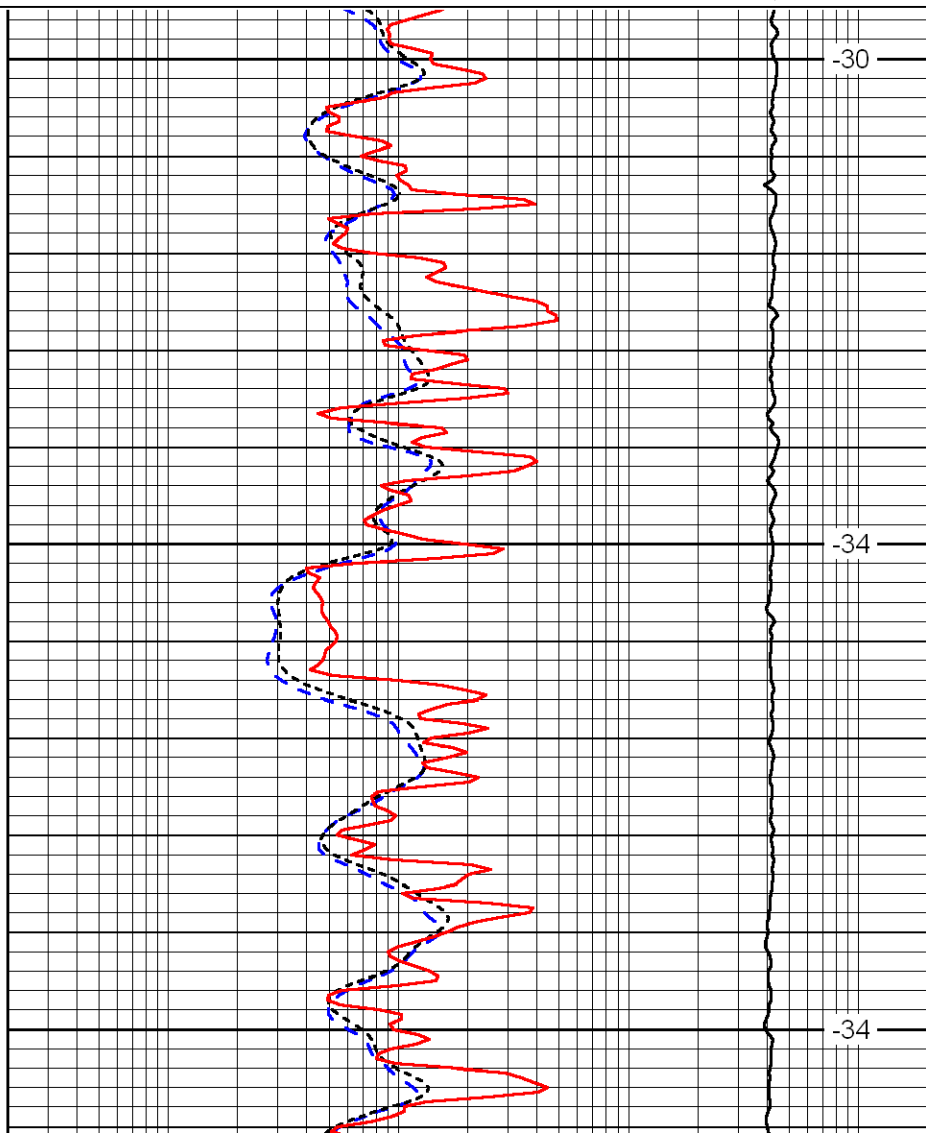
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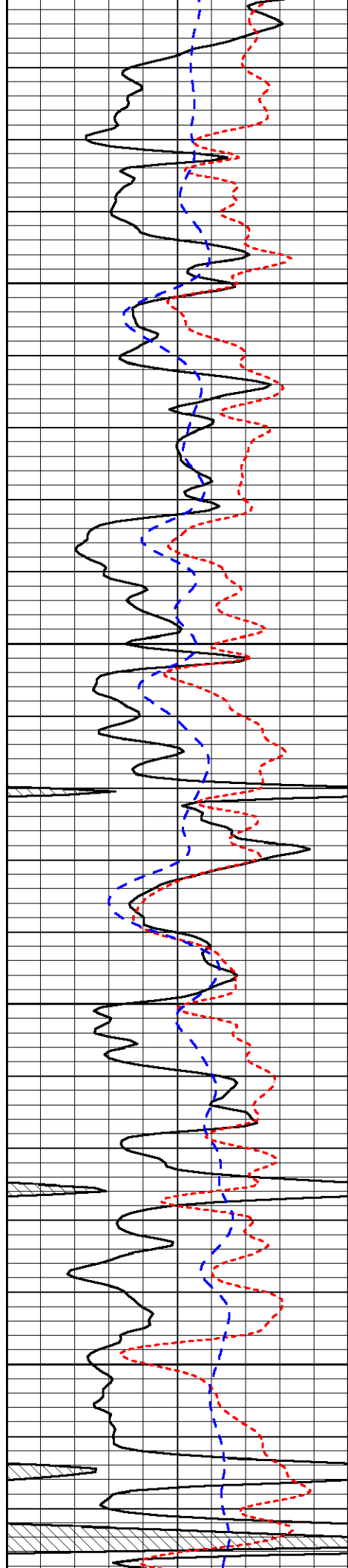


3000

3050

3100



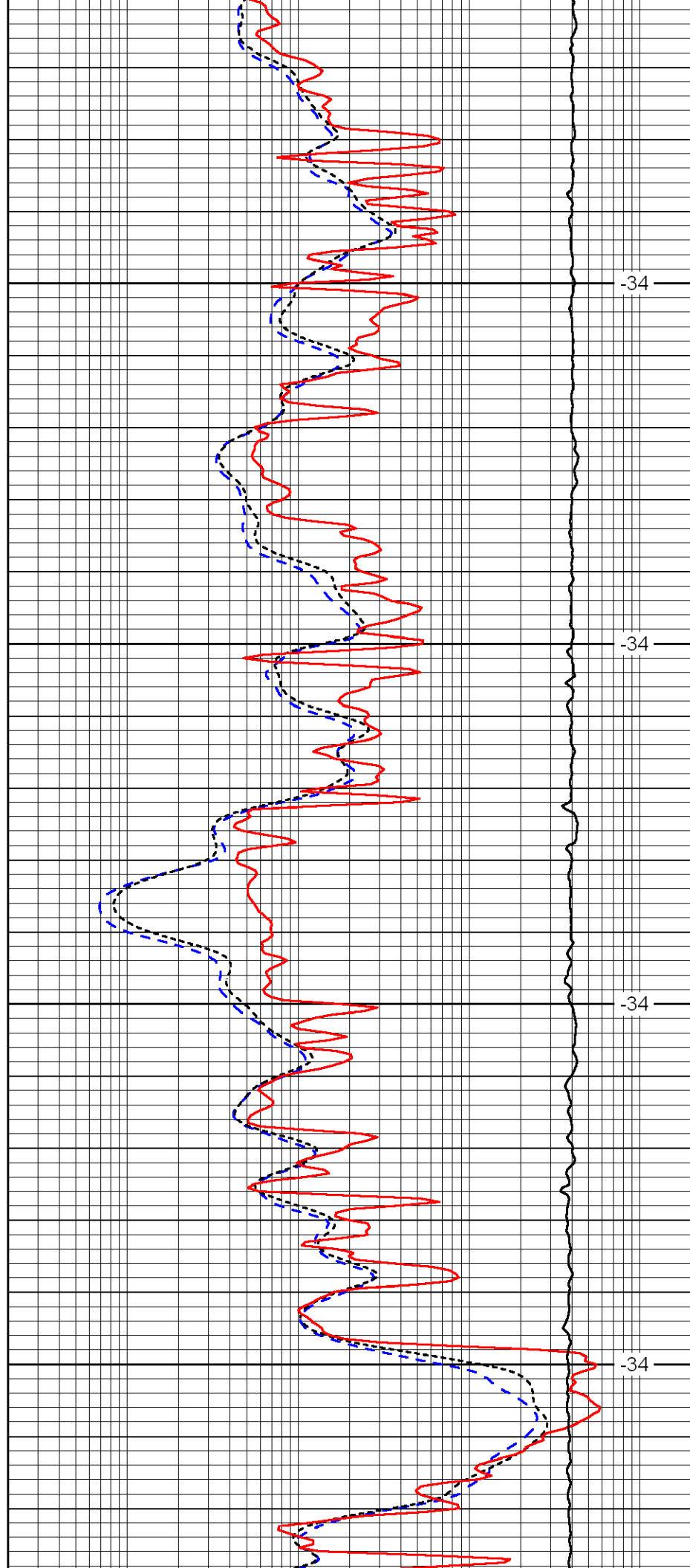


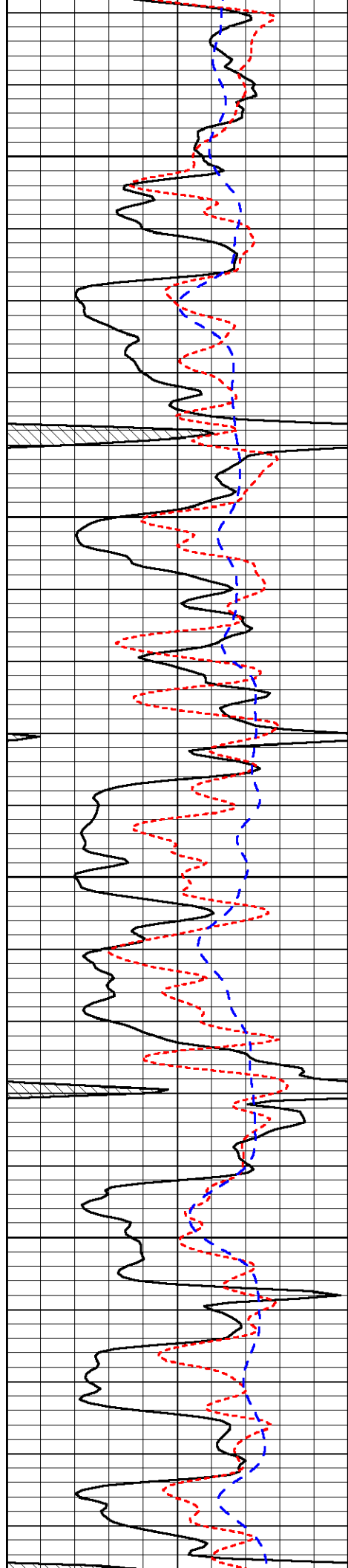
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3300



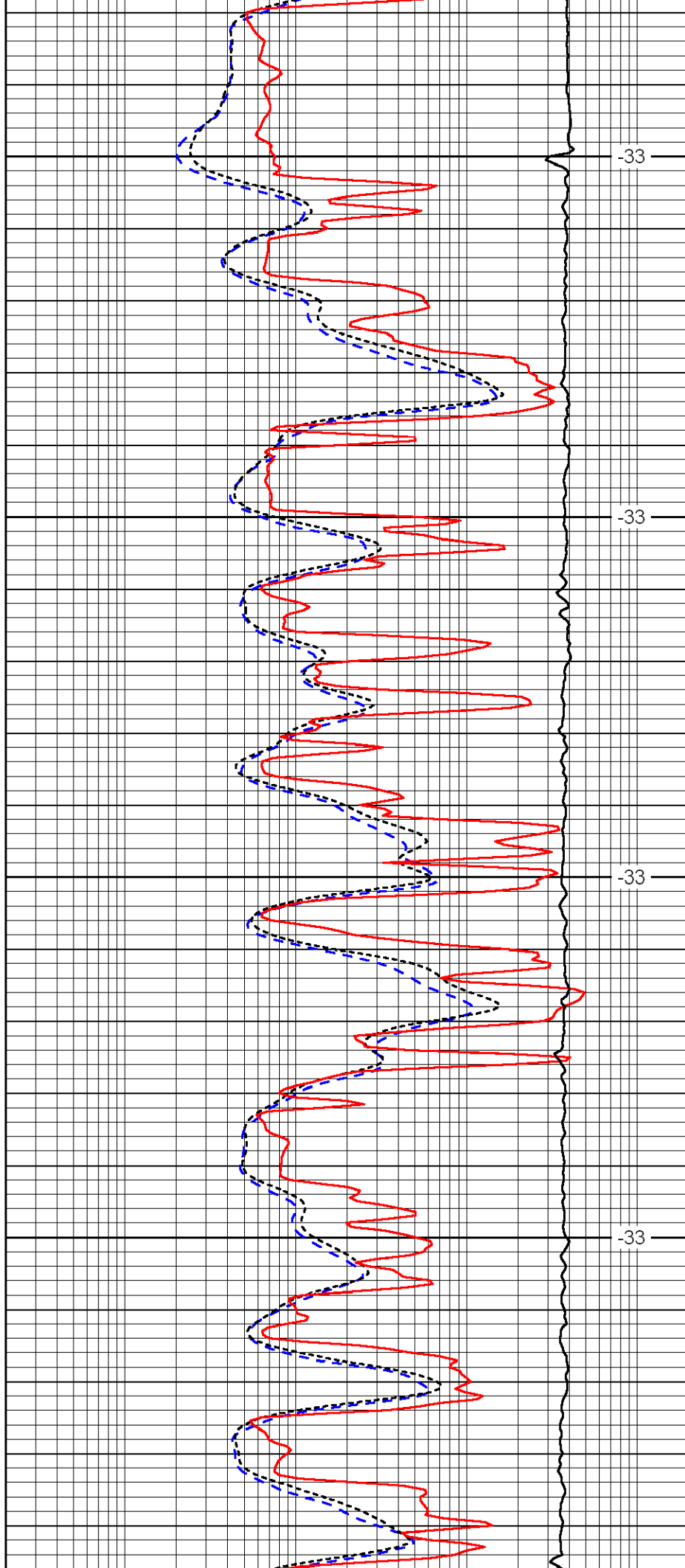


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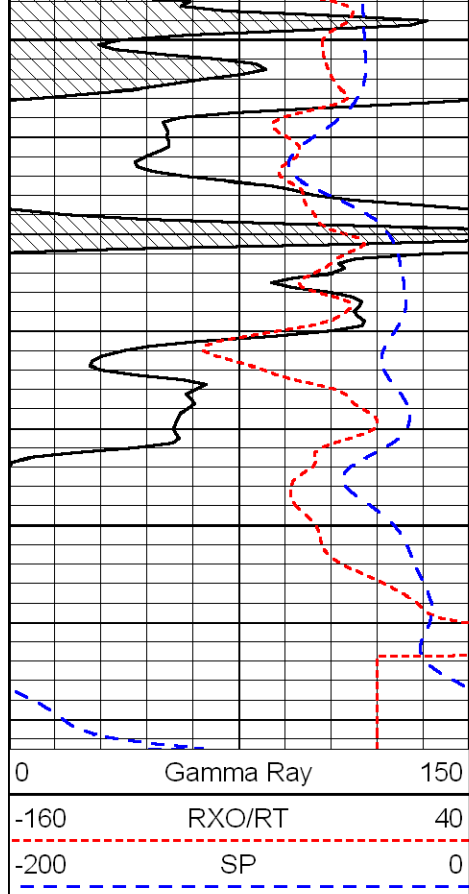


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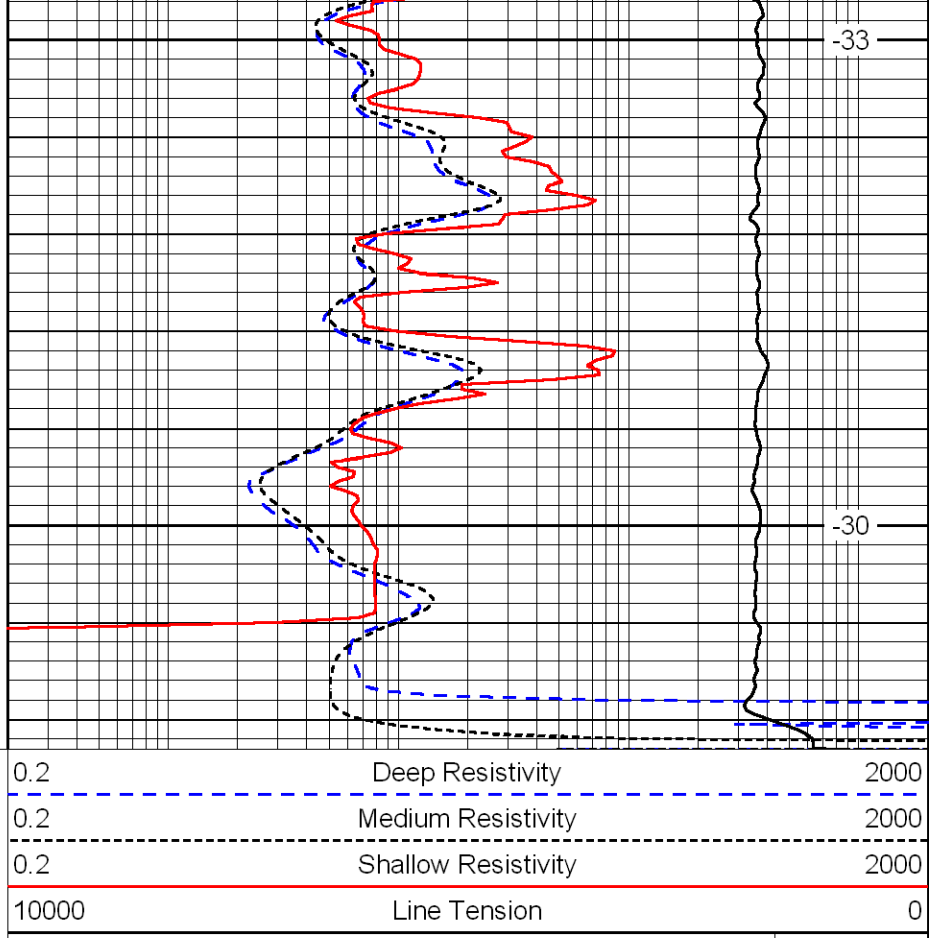
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3600



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-30

LSPD