



Pioneer Energy Services

Dual Induction Log

API No.

15-077-22065-00-00

Company White Pine Petroleum Corporation

Well Wethington # 2

Field Freeport

County Harper State Kansas

Location

2310' FSL & 330' FWL

Sec: 5 Twp: 33 S Rge: 5 W

Permanent Datum Ground Level Elevation 1336
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 1346
D.F.
G.L. 1336

Other Services
CNL/CDL

Date 07-15-2014

Run Number One

Depth Driller 4580

Depth Logger 4586

Bottom Logged Interval 4585

Top Log Interval 300

Casing Driller 8.625 @ 323

Casing Logger 320

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8000

Density / Viscosity 9.1 40

pH / Fluid Loss 9.0 12.8

Source of Sample Flowline

Rm @ Meas. Temp 0.48 @ 70

Rmf @ Meas. Temp 0.36 @ 70

Rmc @ Meas. Temp 0.65 @ 70

Source of Rmf / Rmc Charts

Rm @ BHT 0.28 @ 122

Operating Rig Time 3 Hours

Max Rec. Temp. F 122

Equipment Number 17

Location Hays

Recorded By Y. Ruiz

Witnessed By Pat Deenihan

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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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(785) 625-3858

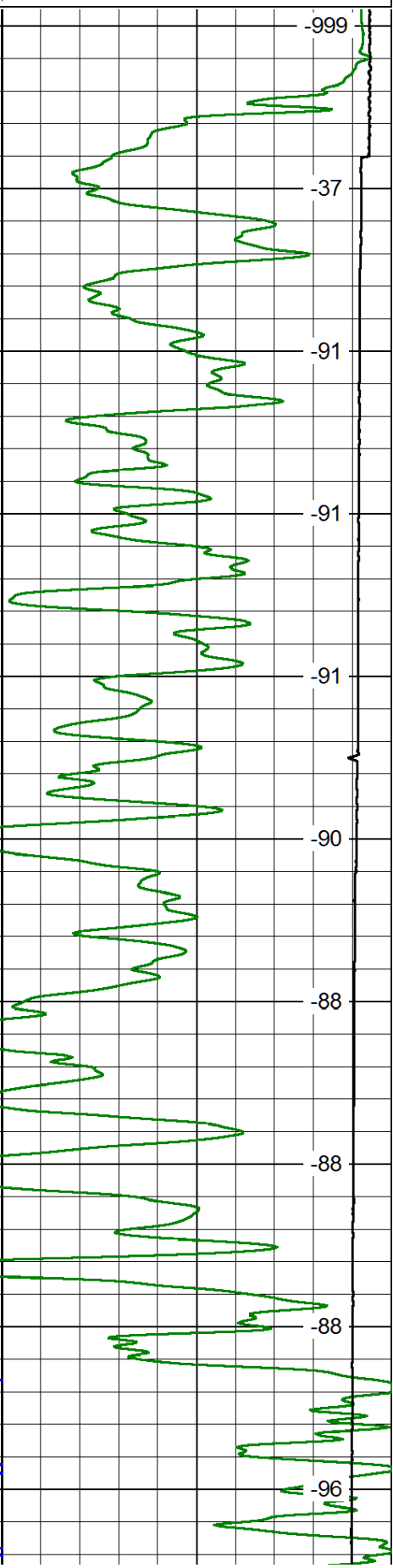
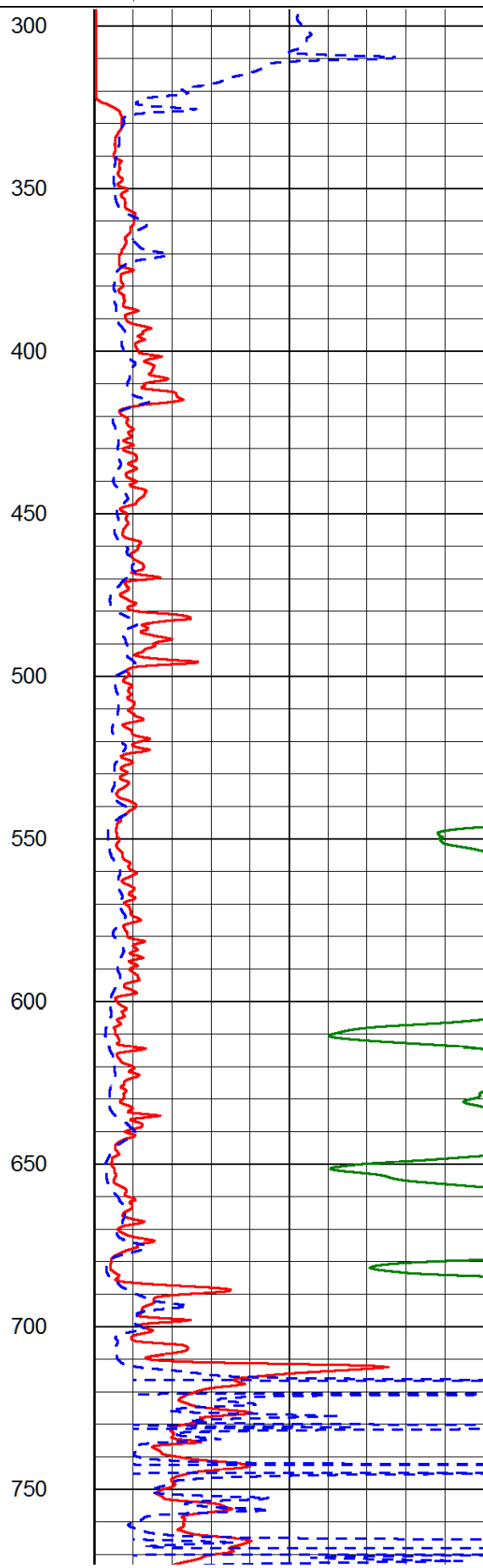
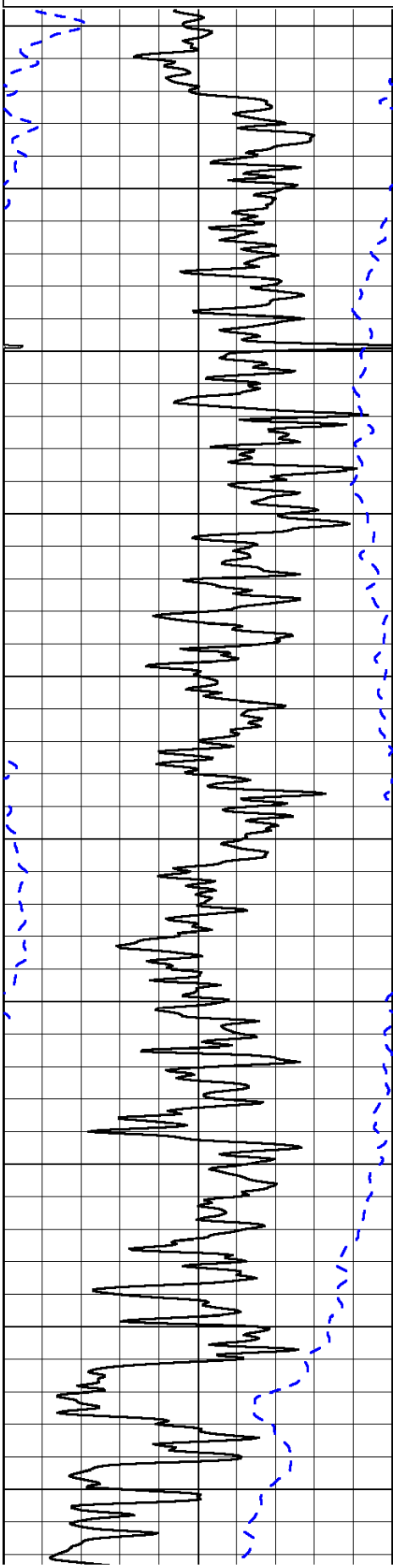
Danville,
5 1/2 South on 80 Ave,
East into

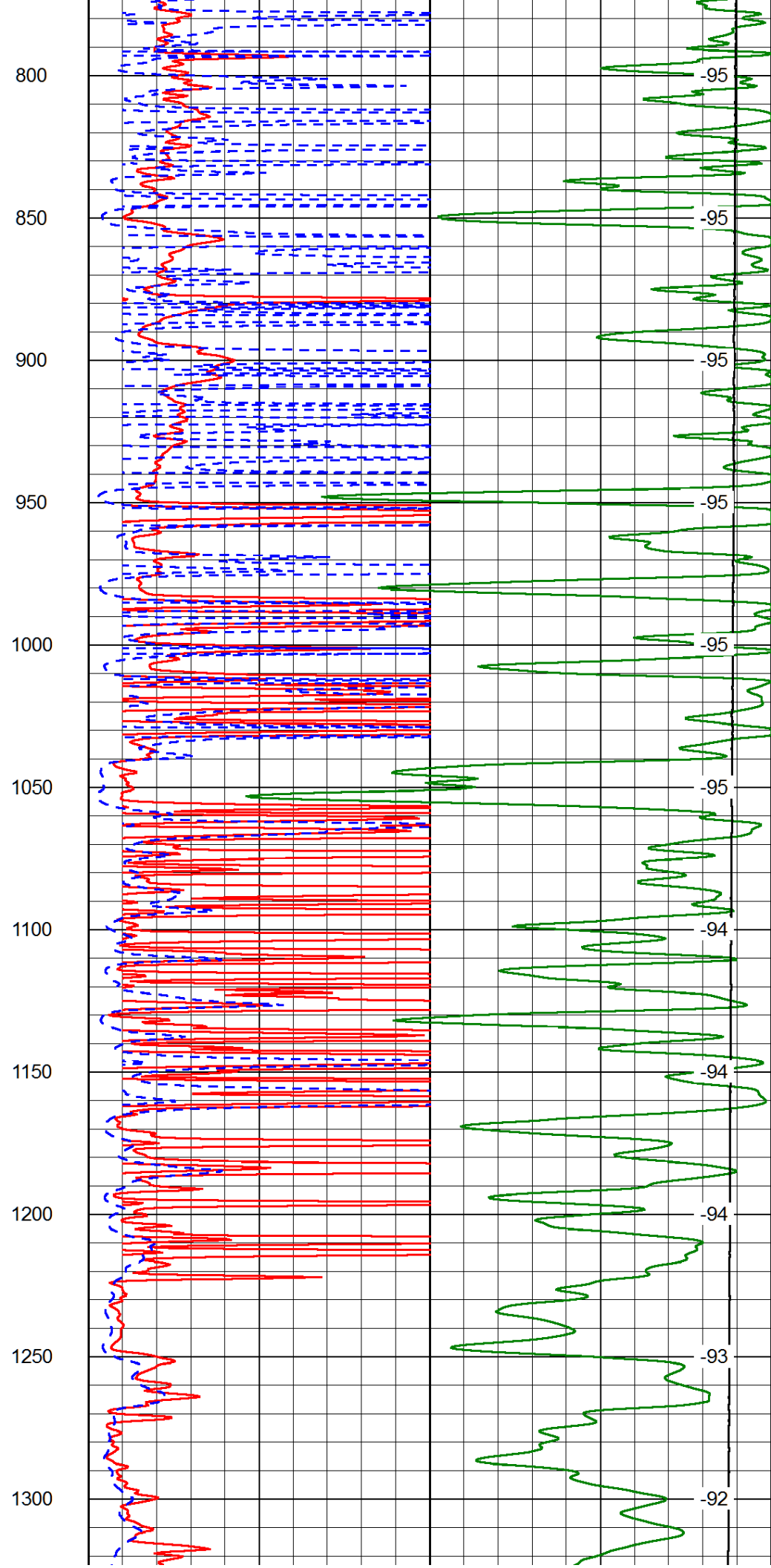
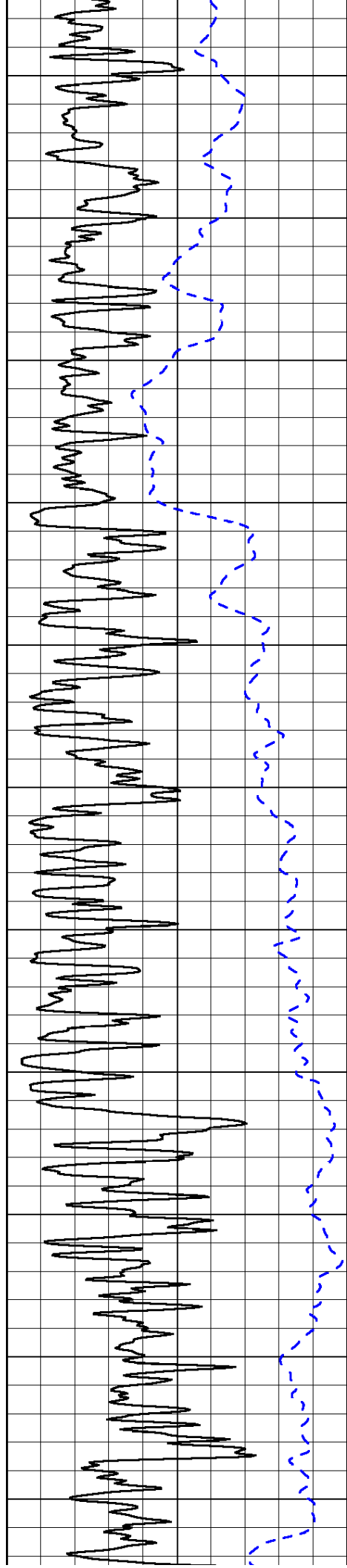
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Dataset Pathname: DIL/whstk3
Presentation Format: dil2in
Dataset Creation: Tue Jul 15 07:20:17 2014
Charted by: Depth in Feet scaled 1:600

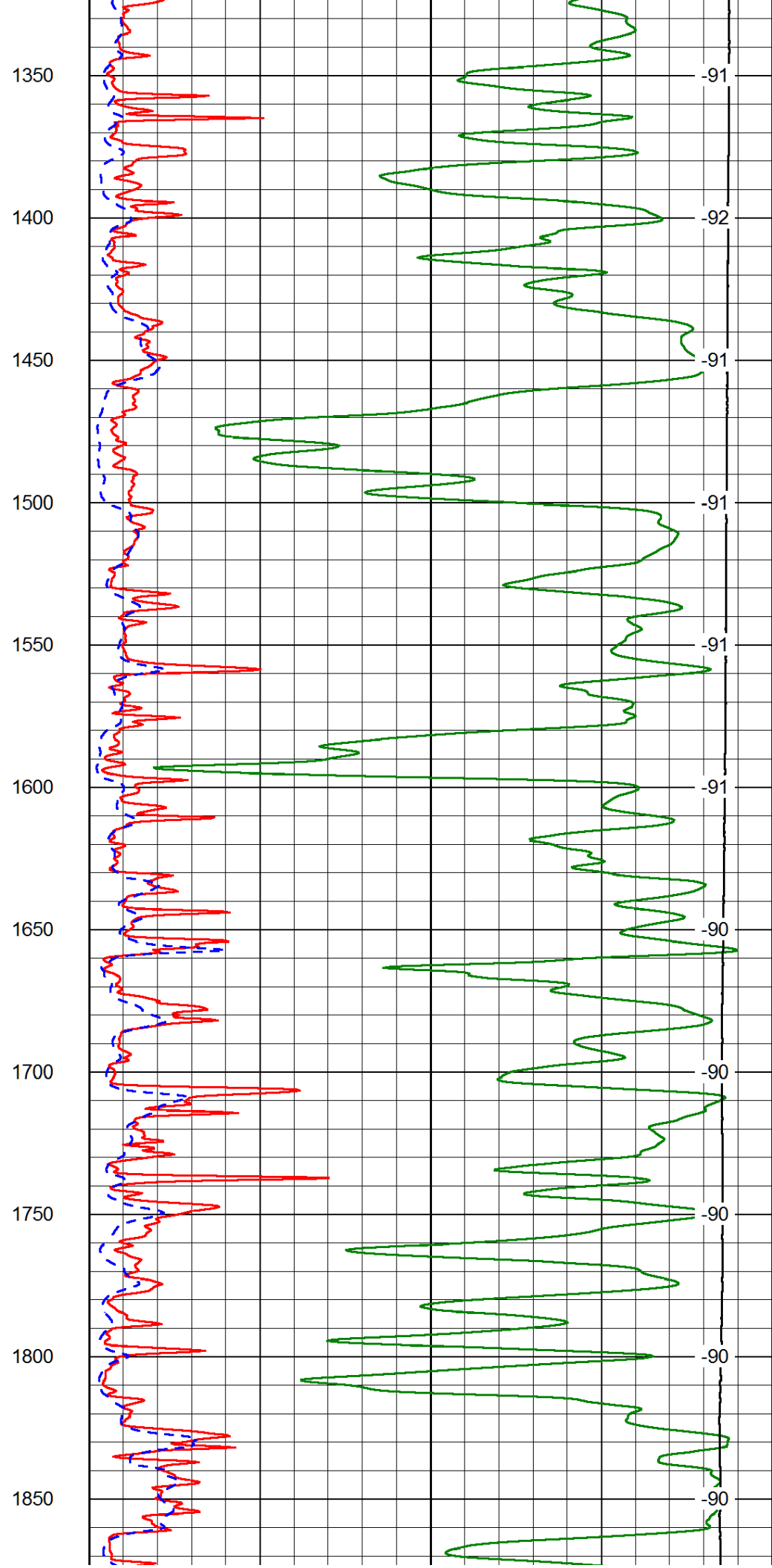
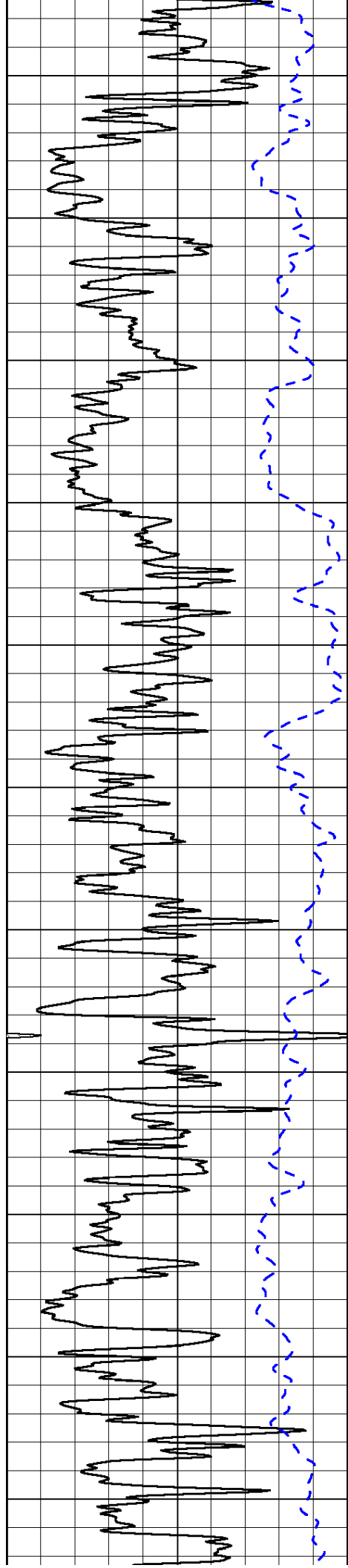
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-200	SP (mV)	0

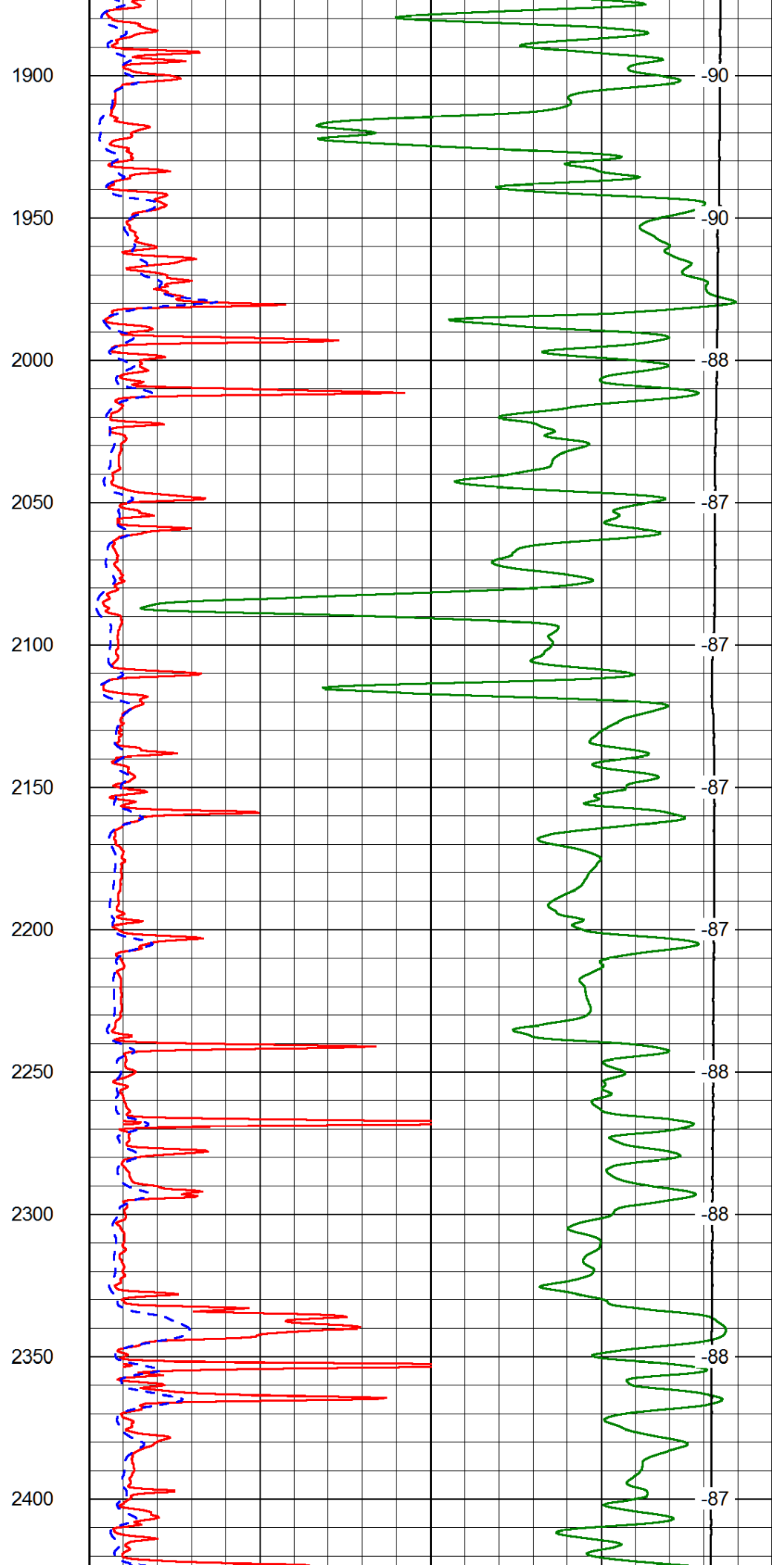
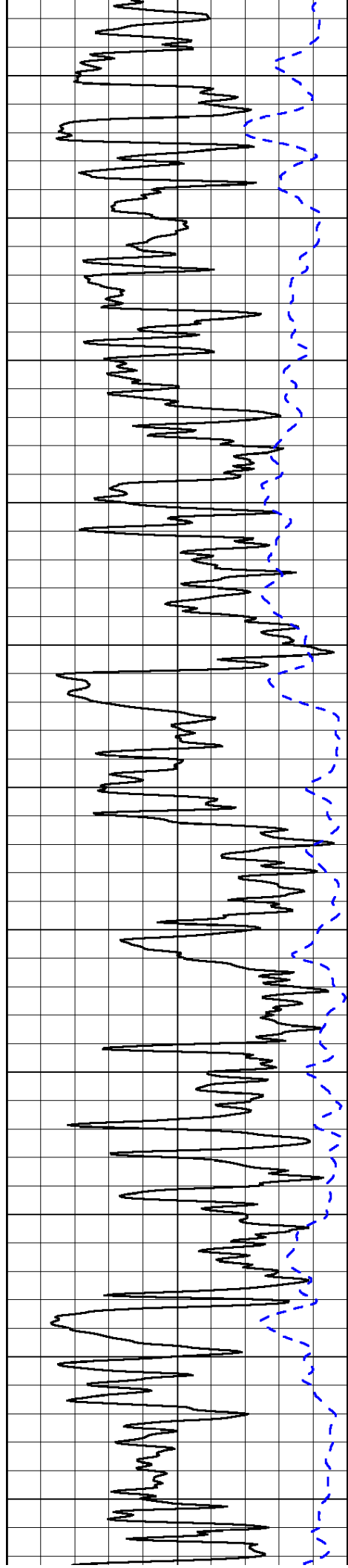
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

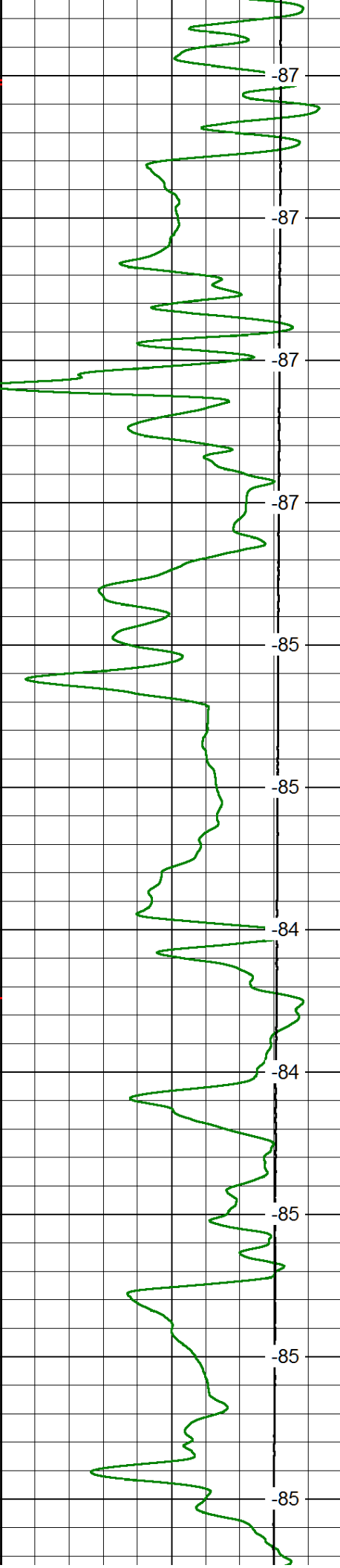
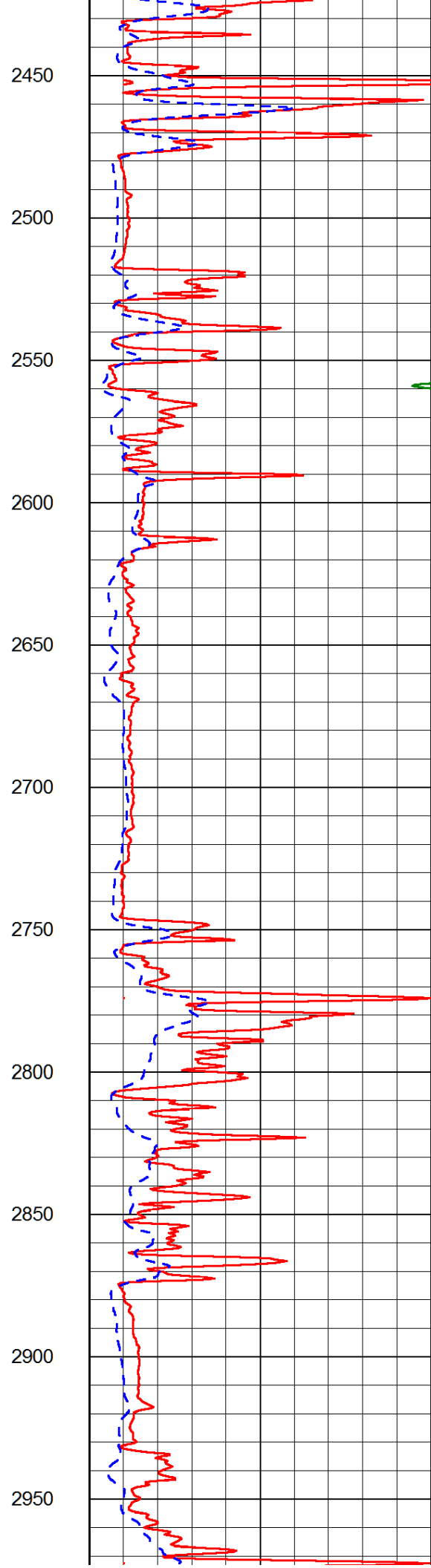
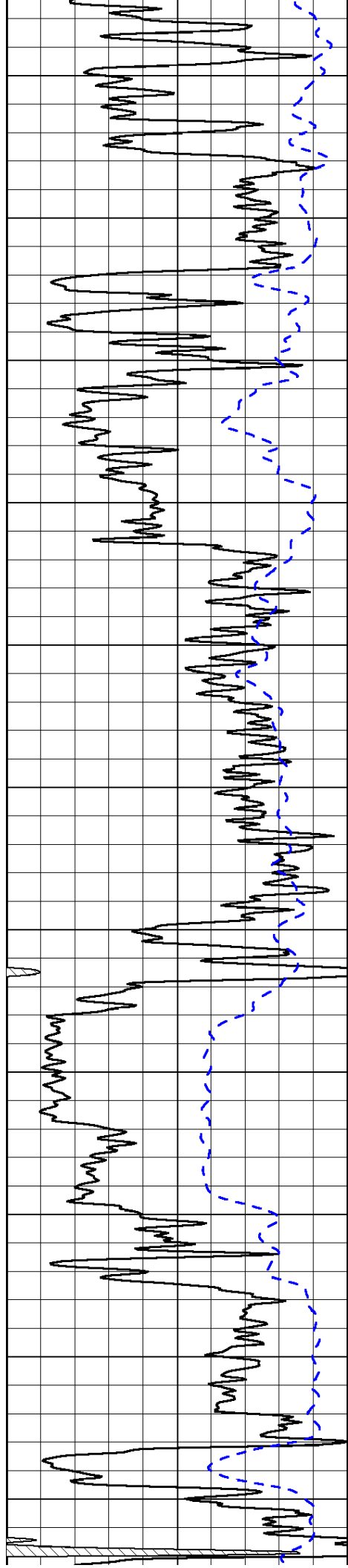
LSPD

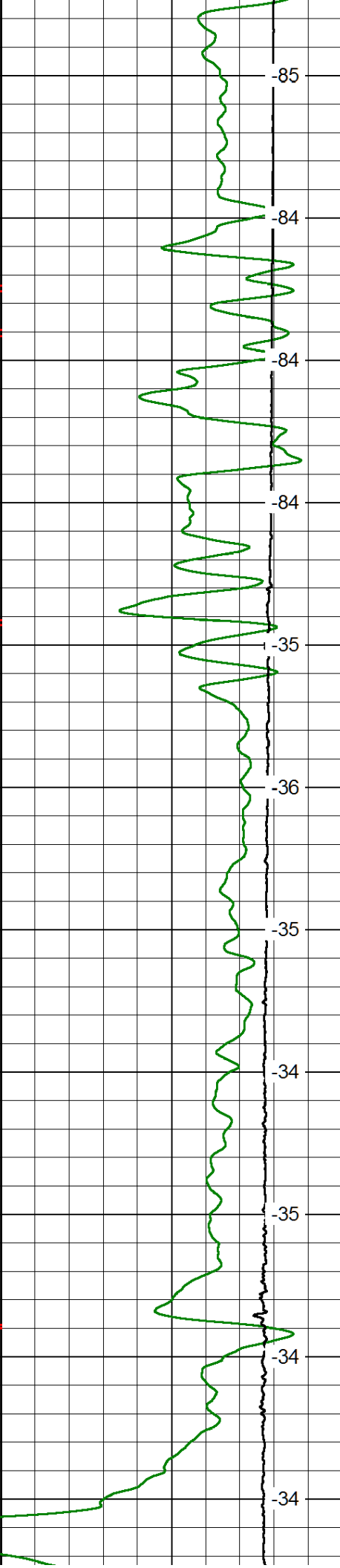
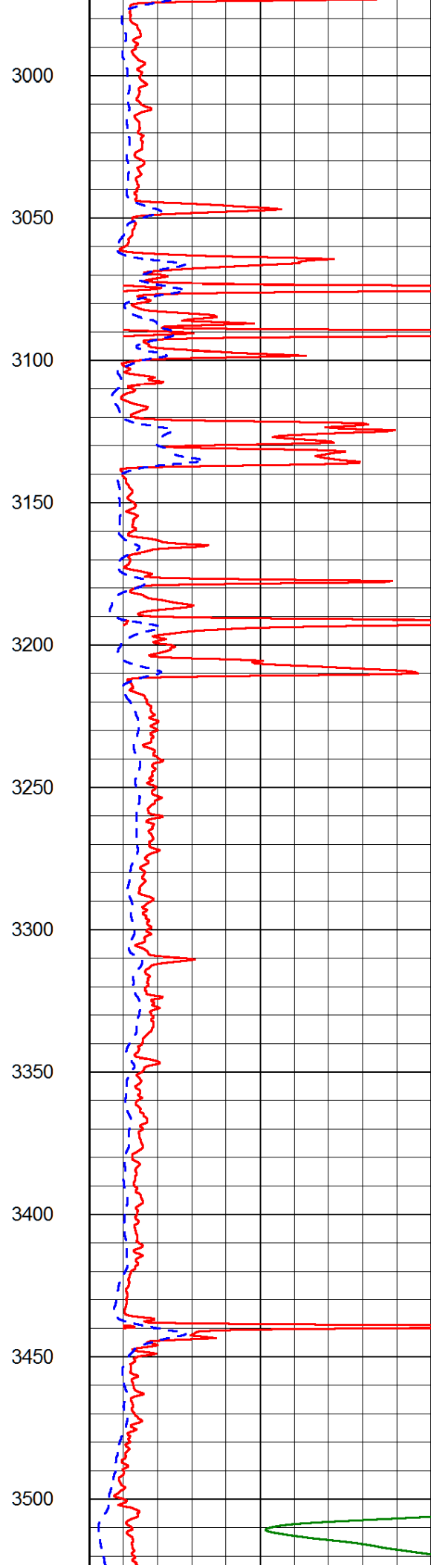
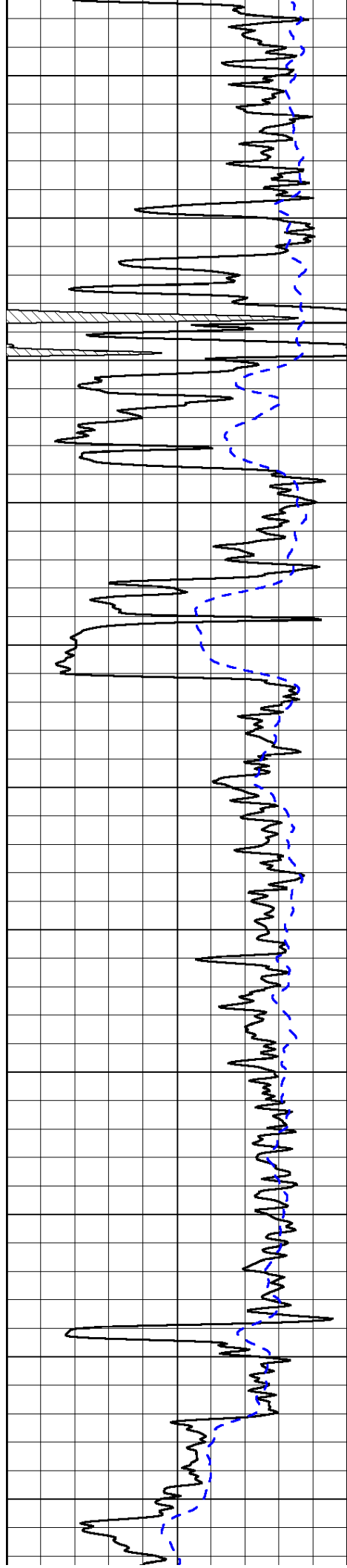


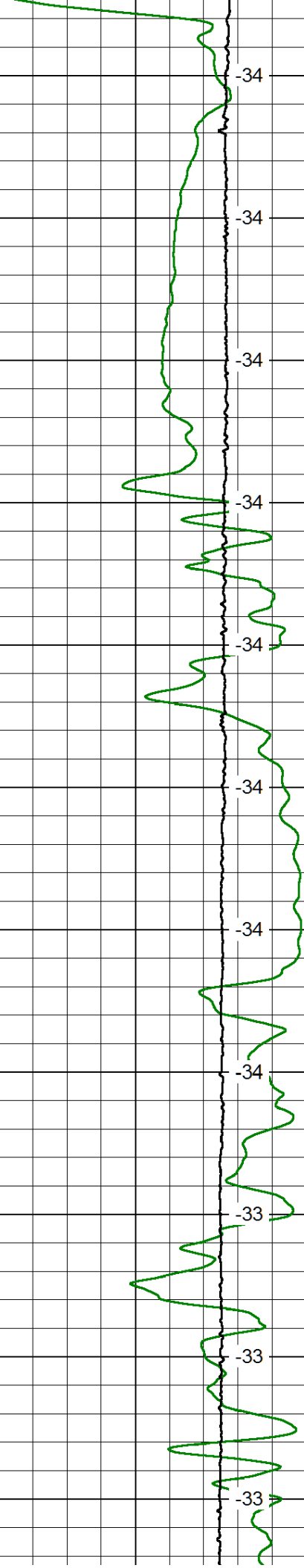
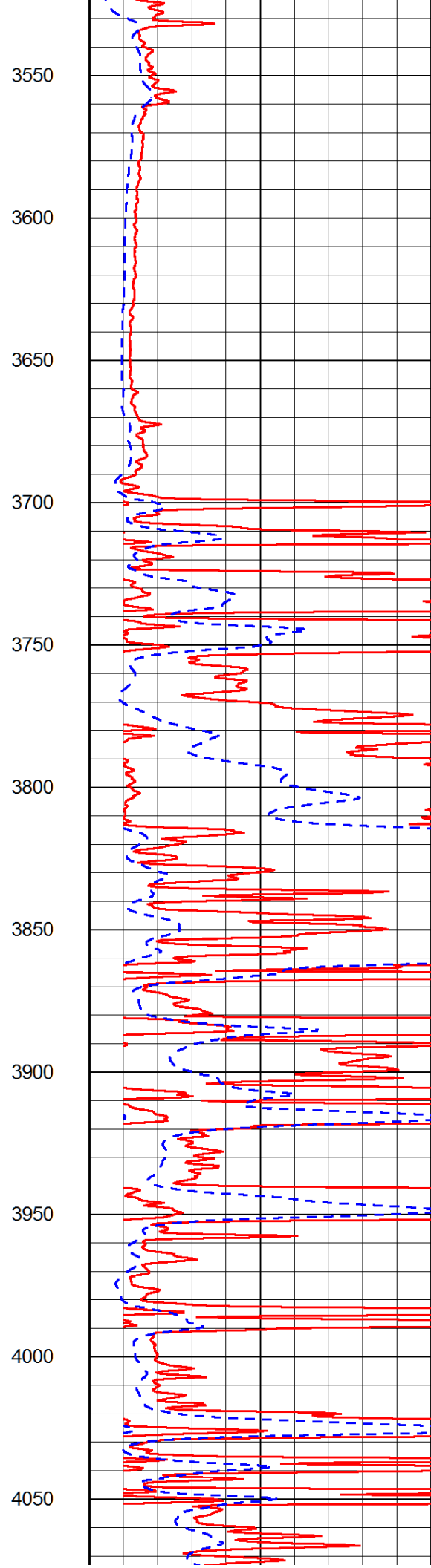
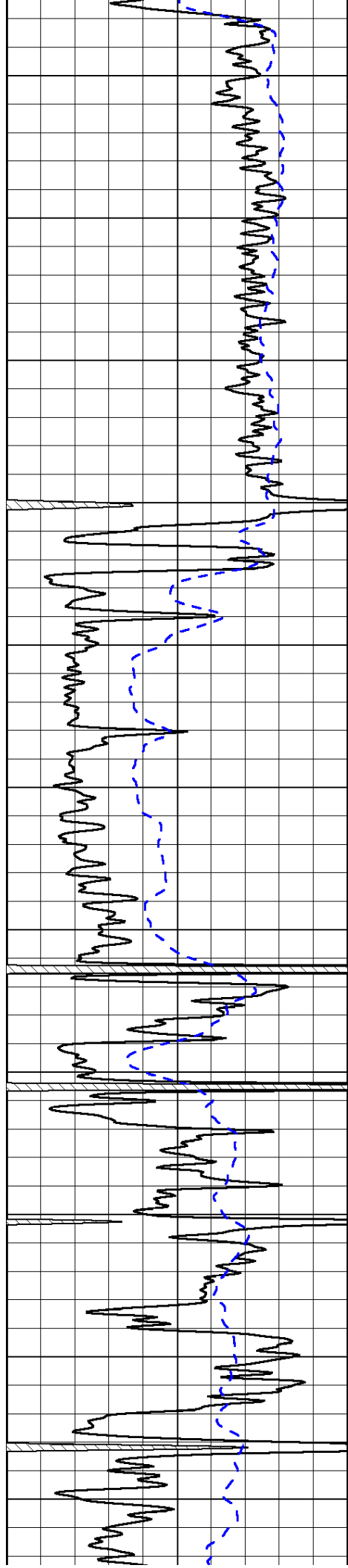


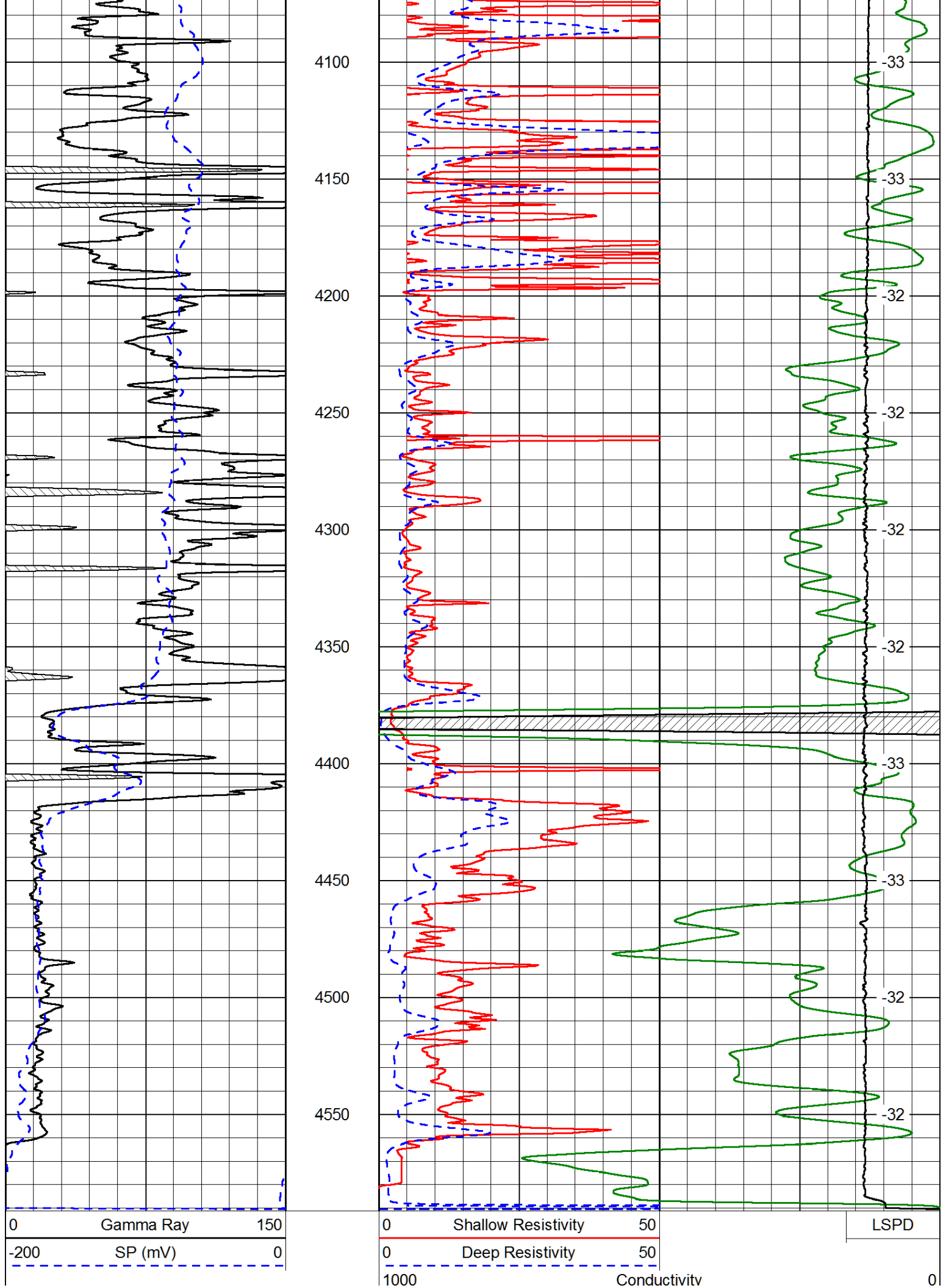








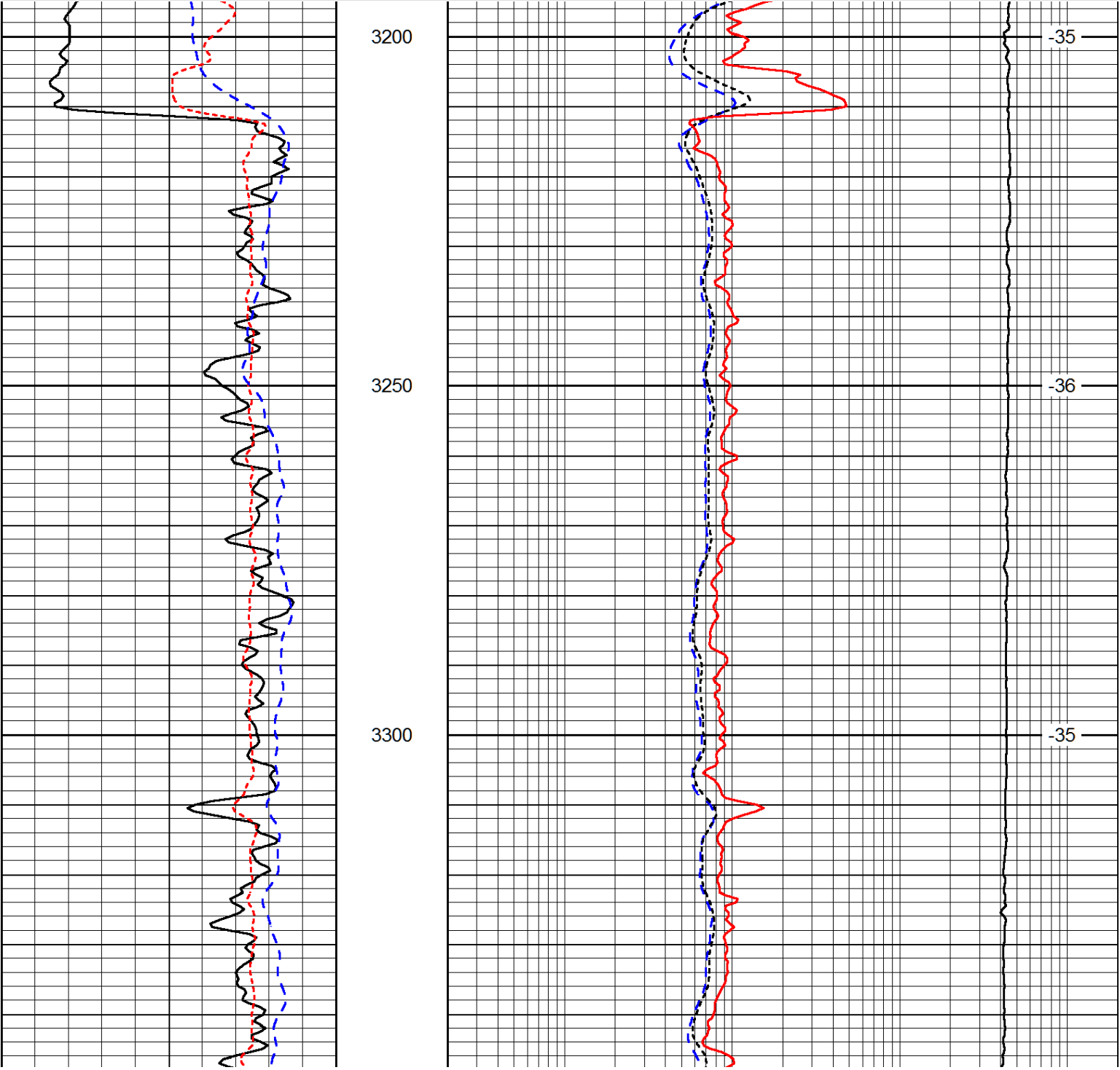


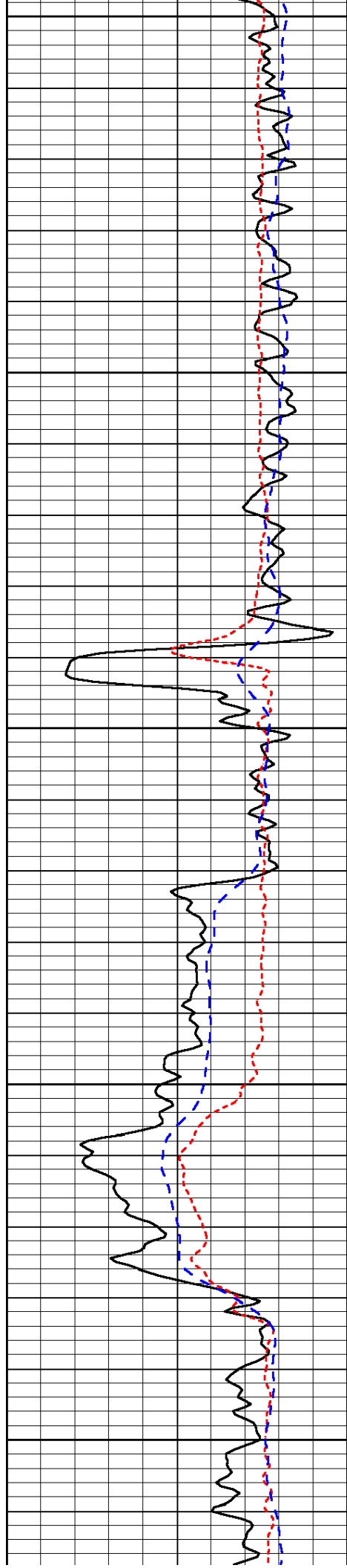


15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

Database File:	white_pine_wethington_2_hd.db
Dataset Pathname:	DIL/whstk3
Presentation Format:	dil
Dataset Creation:	Tue Jul 15 07:20:17 2014
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000
-160	RXO/RT	40	0.2	Medium Resistivity	2000
-200	SP (mV)	0	0.2	Shallow Resistivity	2000
			10000	Line Tension	0
					LSPD





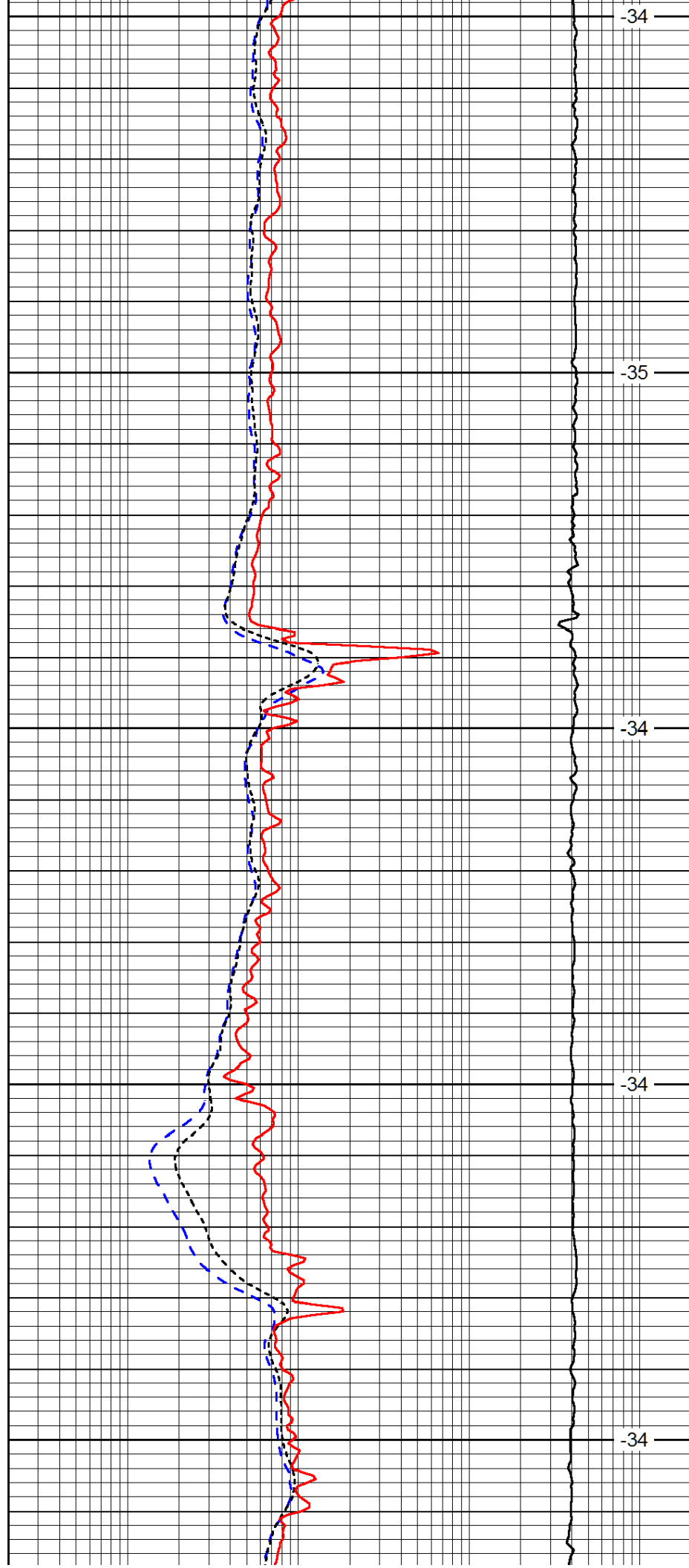
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3450

3500

3550



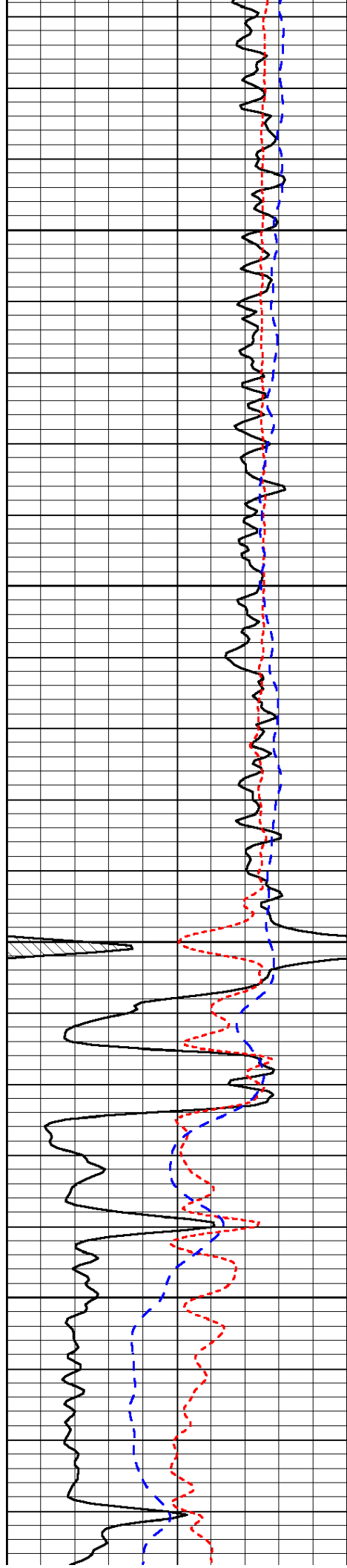
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-35

-34

-34

-34

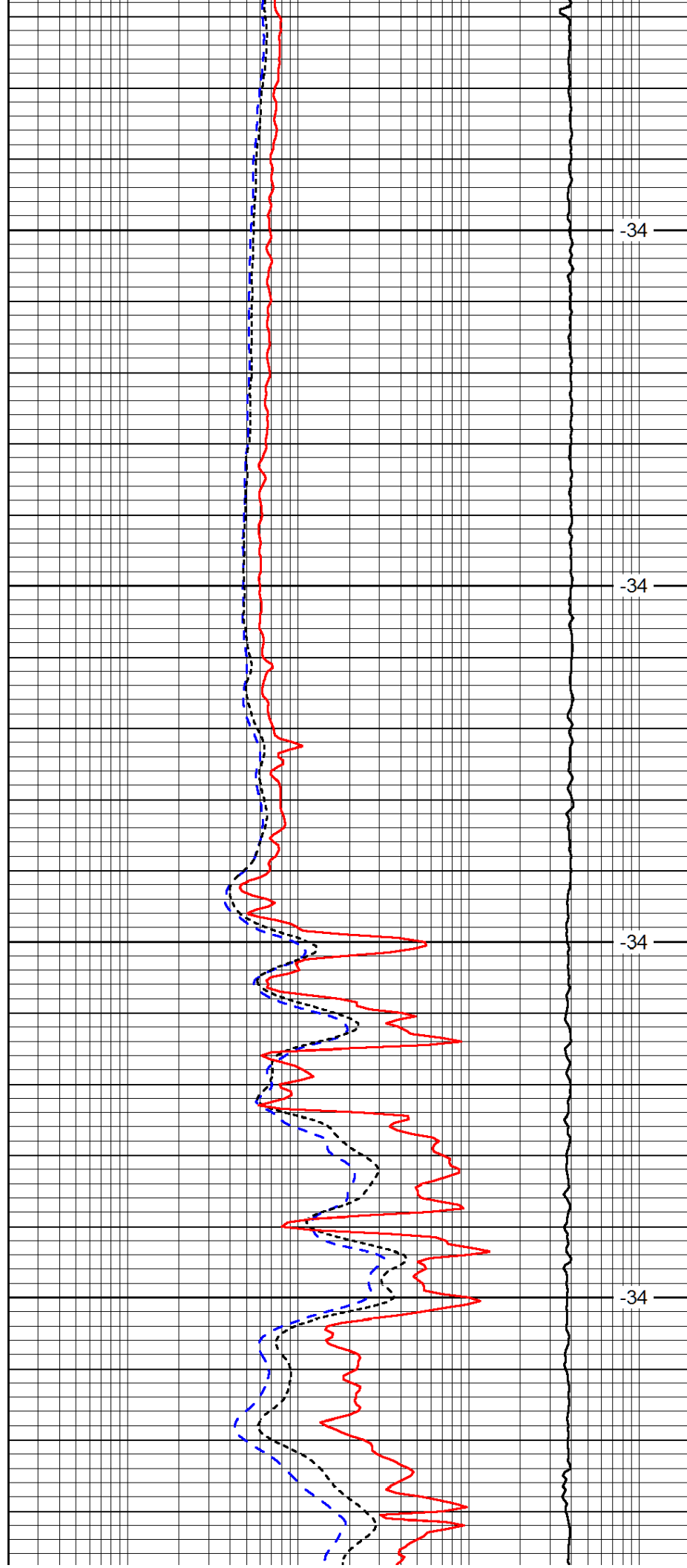


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3700

3750

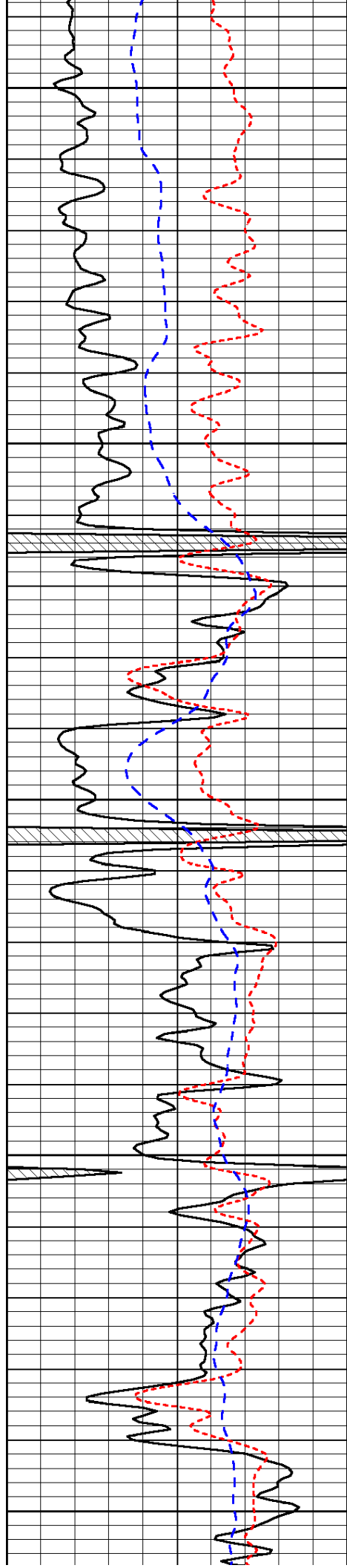


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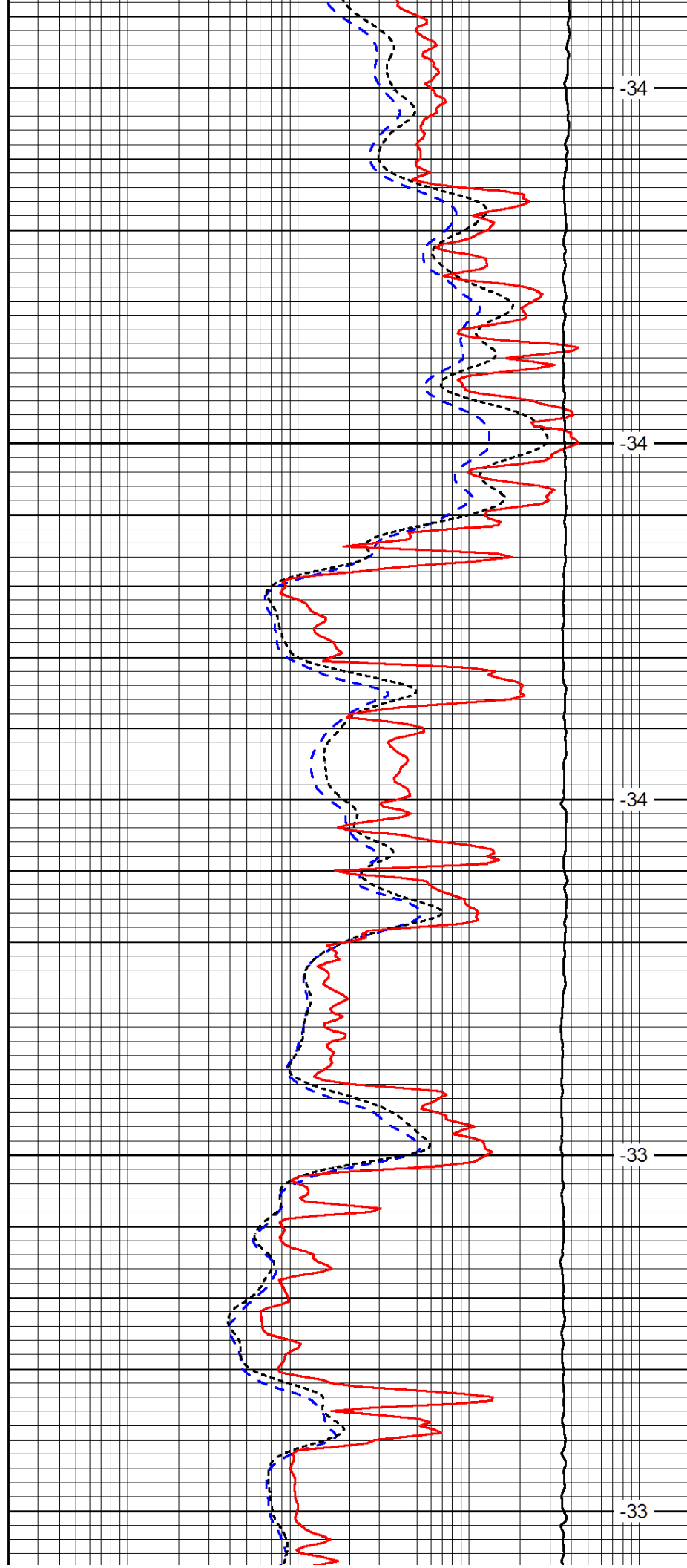
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3850

3900

3950

4000



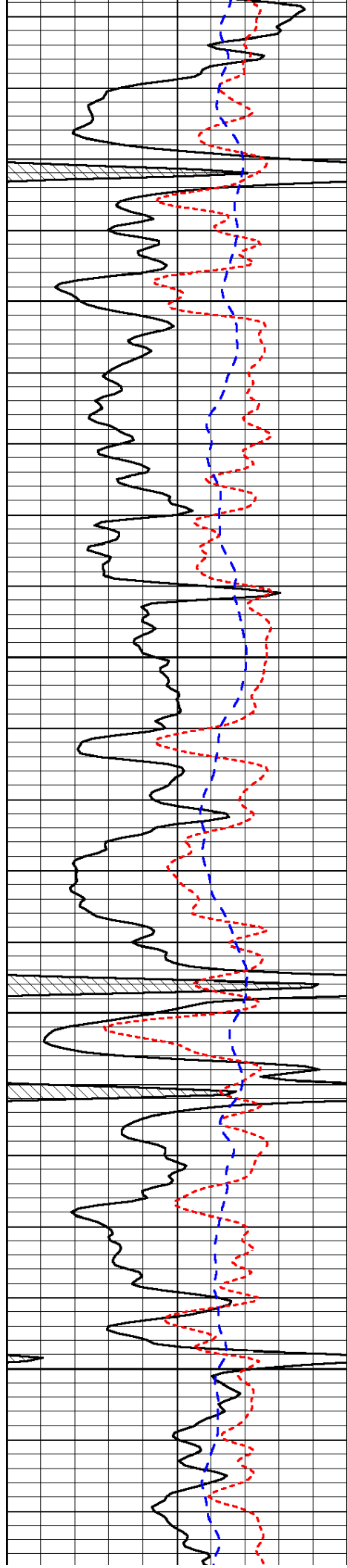
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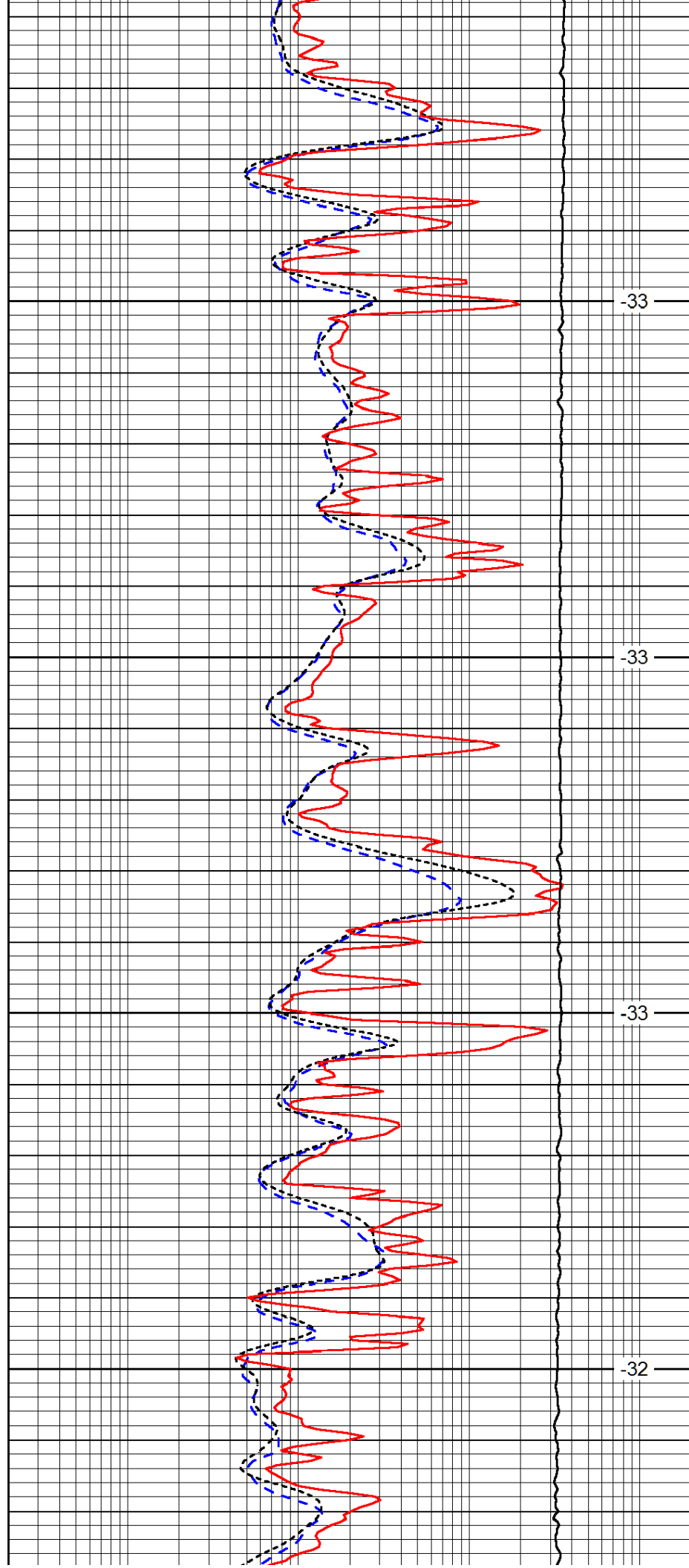


4050

4100

4150

4200

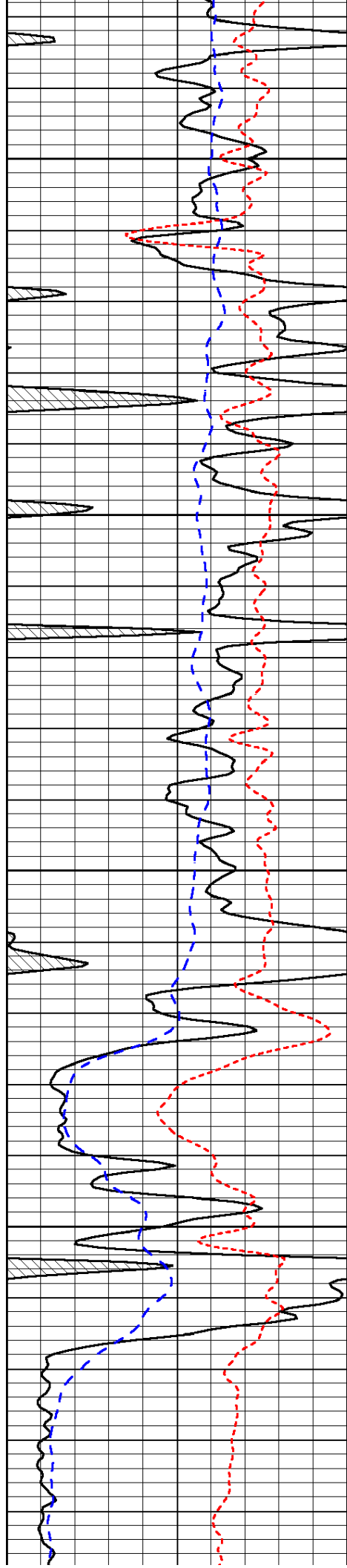


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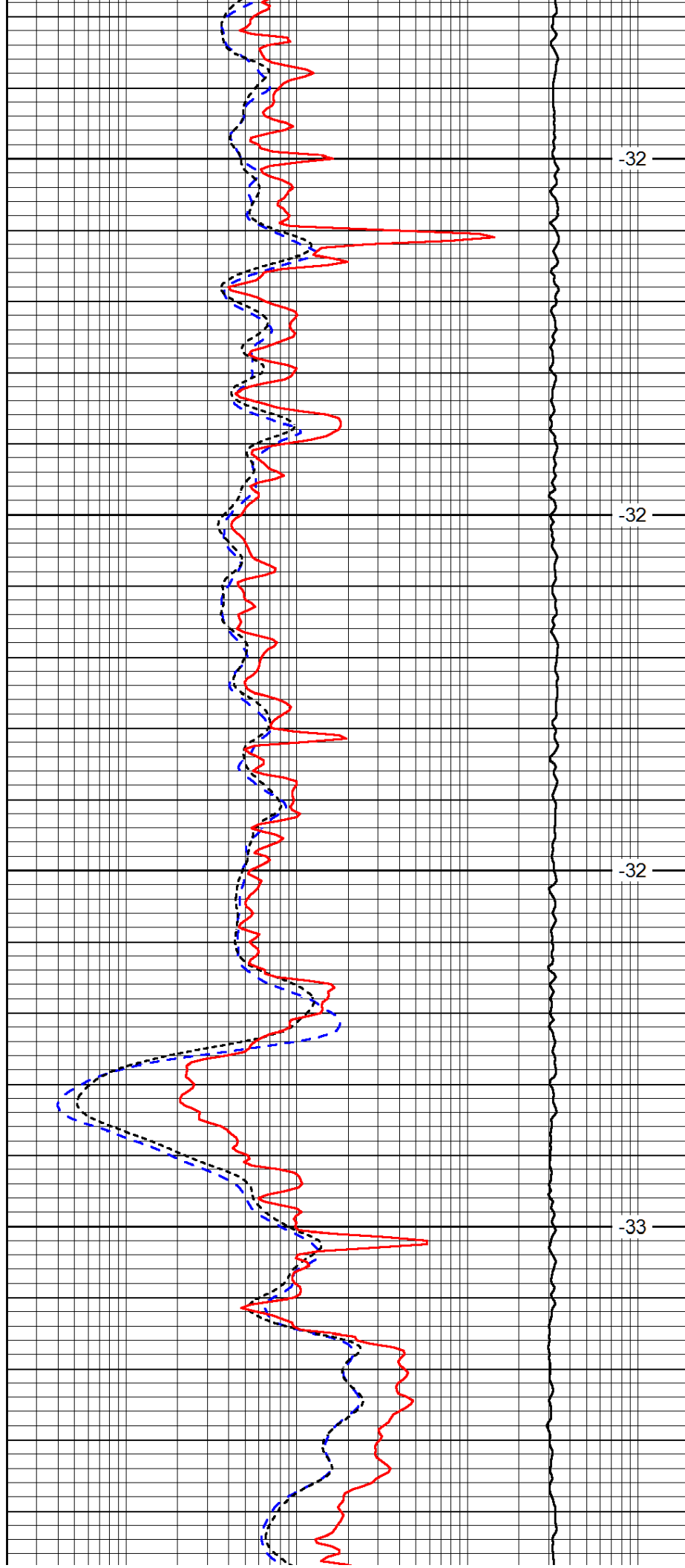


4250

4300

4350

4400

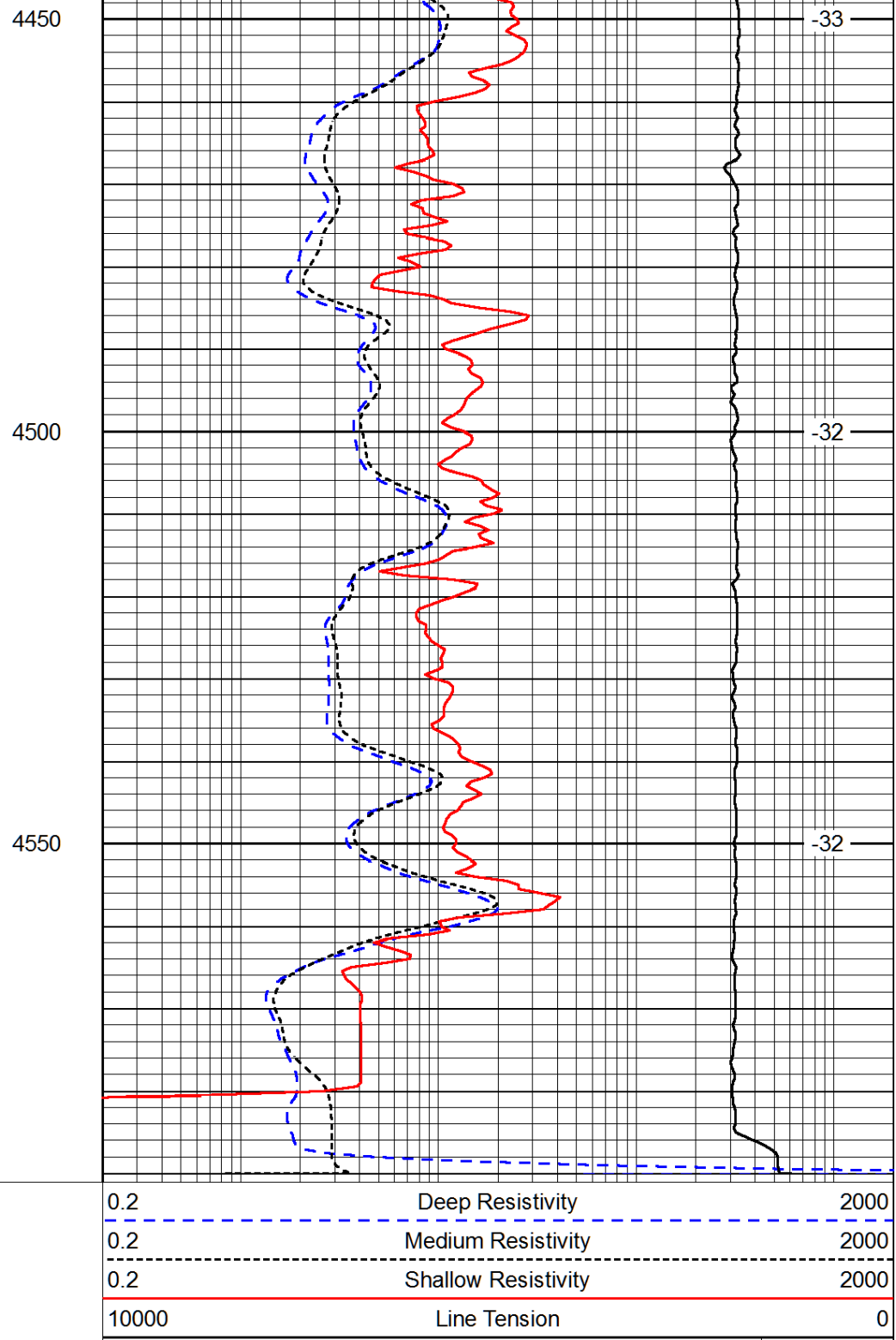
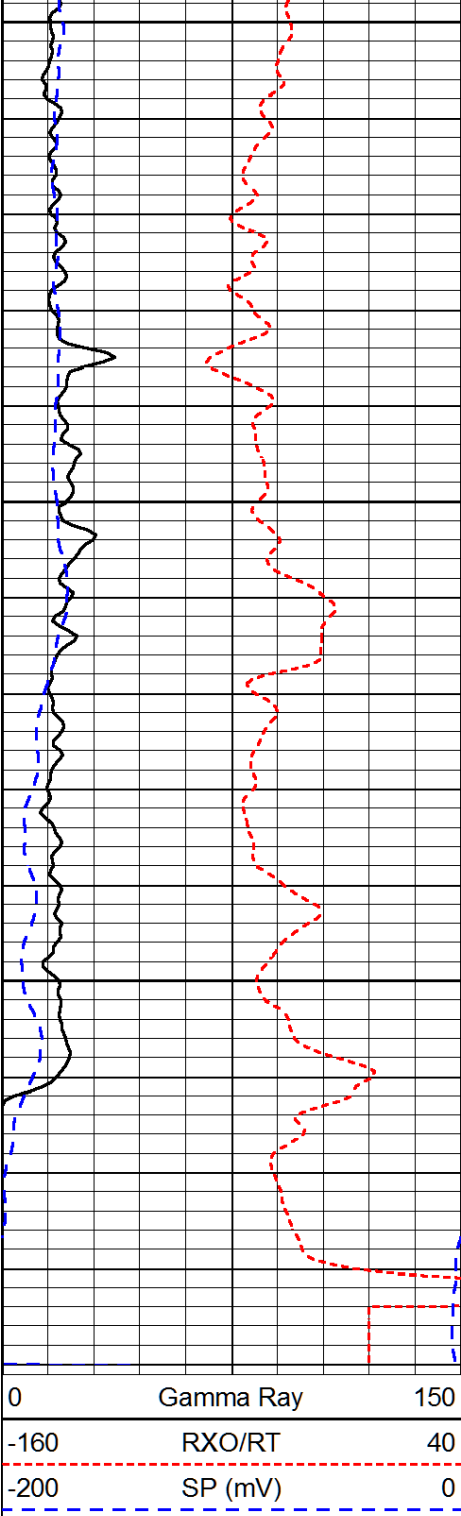


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-32

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-33



LSPD