



Dual Induction Log

Pioneer Energy Services

API No.		Company Cobalt Energy, LLC	
15-135-25,629-00-00		Well VonLehe "A" No. 1-27	
Field Wildcat		County Ness State Kansas	
Location SW-NW-SE-NE 1885' FNL & 1030' FEL		Other Services CNL/CDL	
Sec: 27 Twp: 18S Rge: 24W		Elevation K.B. 2273 D.F. 2261 G.L. 2261	
Permanent Datum Ground Level		Elevation 2261	
Log Measured From Kelly Bushing		12 Ft. Above Perm. Datum	
Drilling Measured From Kelly Bushing			
Date	7/13/2013		
Run Number	One		
Depth Driller	4400		
Depth Logger	4404		
Bottom Logged Interval	4403		
Top Log Interval	250		
Casing Driller	8.625 @ 267		
Casing Logger	263		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6.400		
Density / Viscosity	9.5 60		
pH / Fluid Loss	11.5 10.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	.70 @ 79		
Rmf @ Meas. Temp	.53 @ 79		
Rmc @ Meas. Temp	.95 @ 79		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.46 @ 120		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	120		
Equipment Number	15		
Location	Hays		
Recorded By	J. Hennickson	D. Kerr	
Witnessed By	Larry Nicholson		

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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

Ness City Kansas
3 West, 1/2 North, West Into

0	Gamma Ray	150
-200	SP (mV)	0

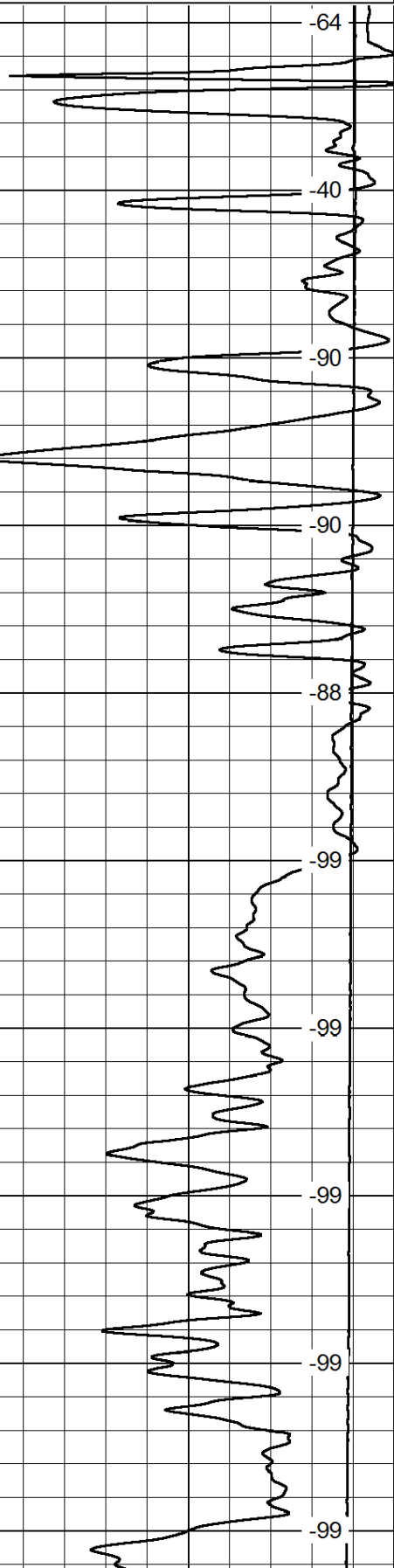
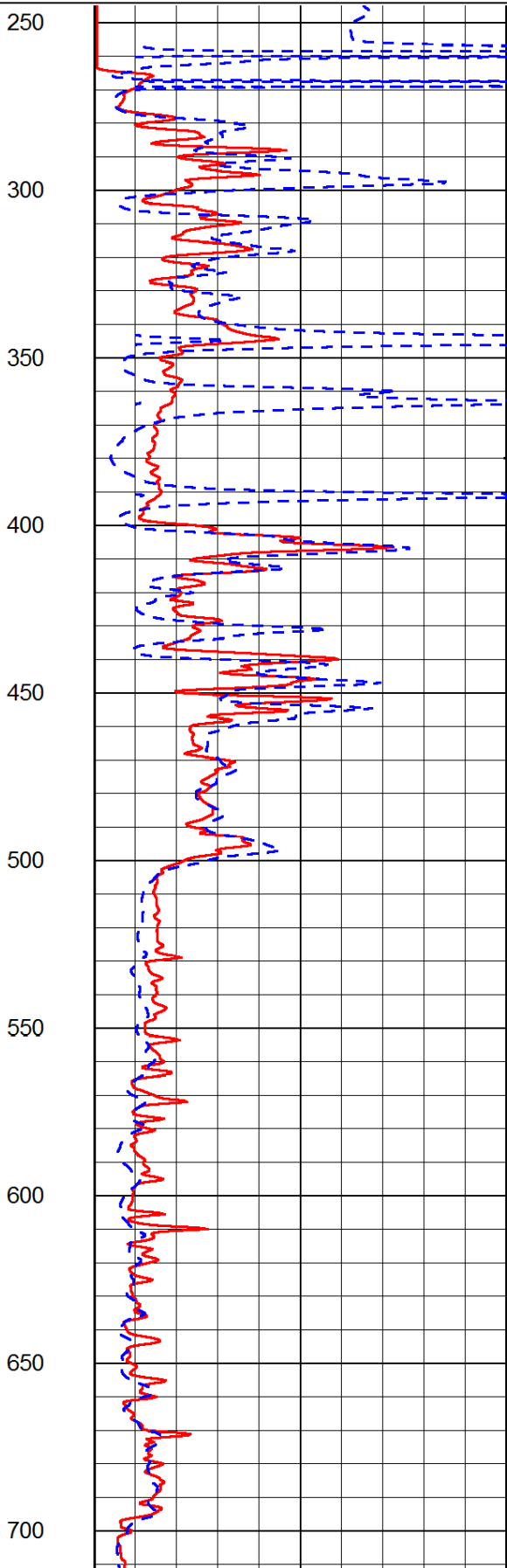
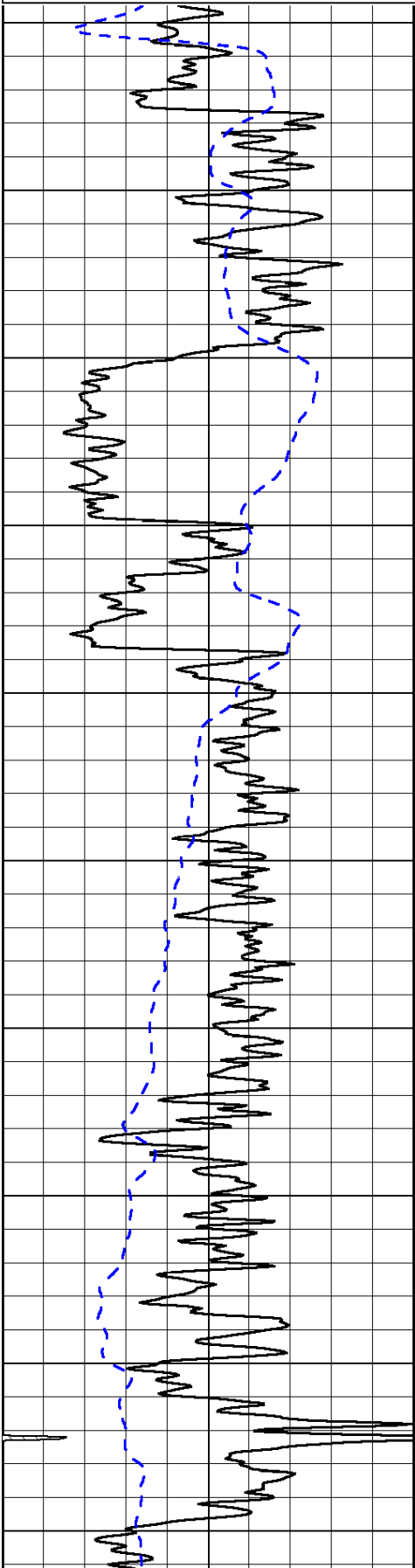
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0	Deep Resistivity	50

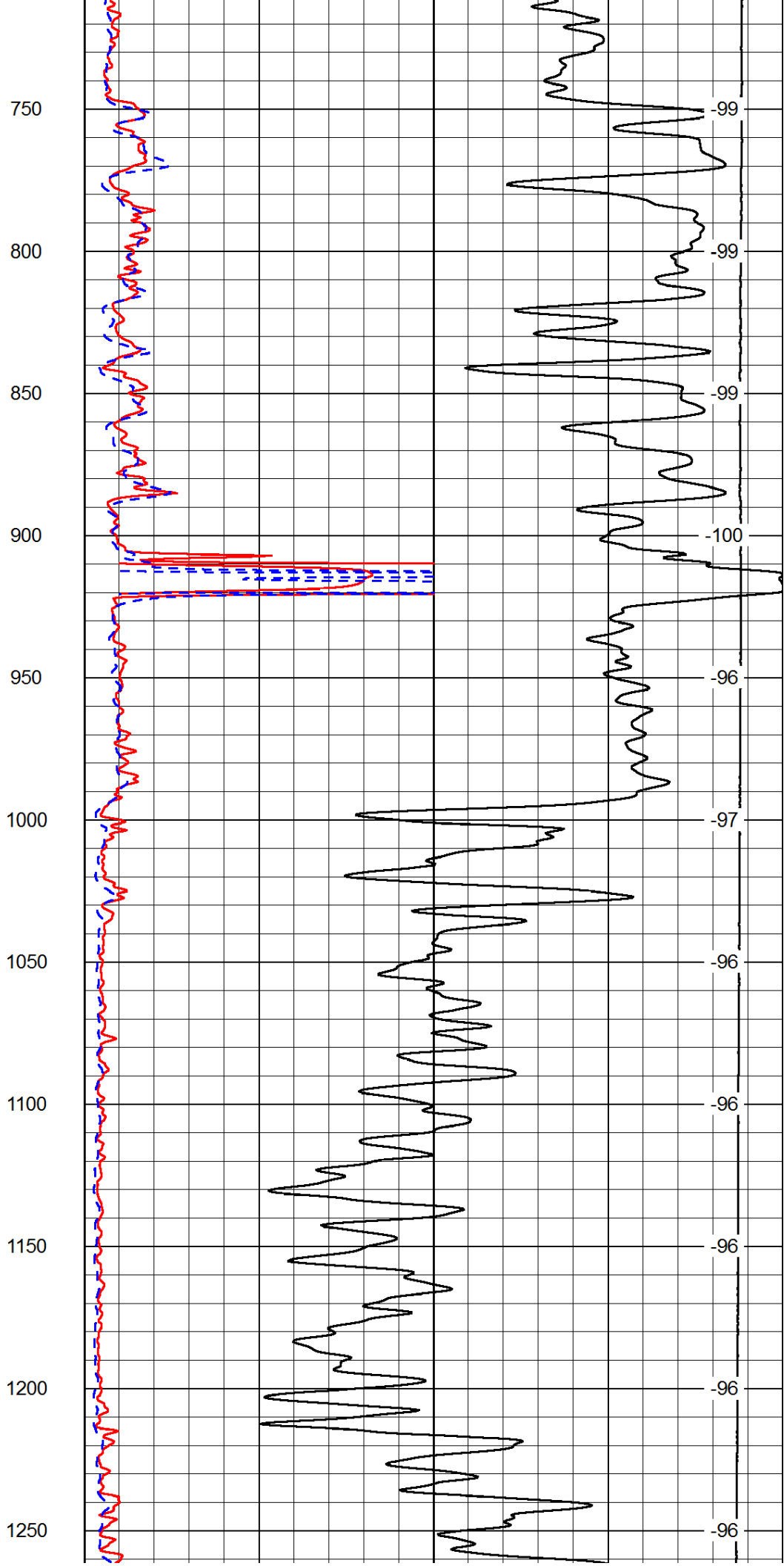
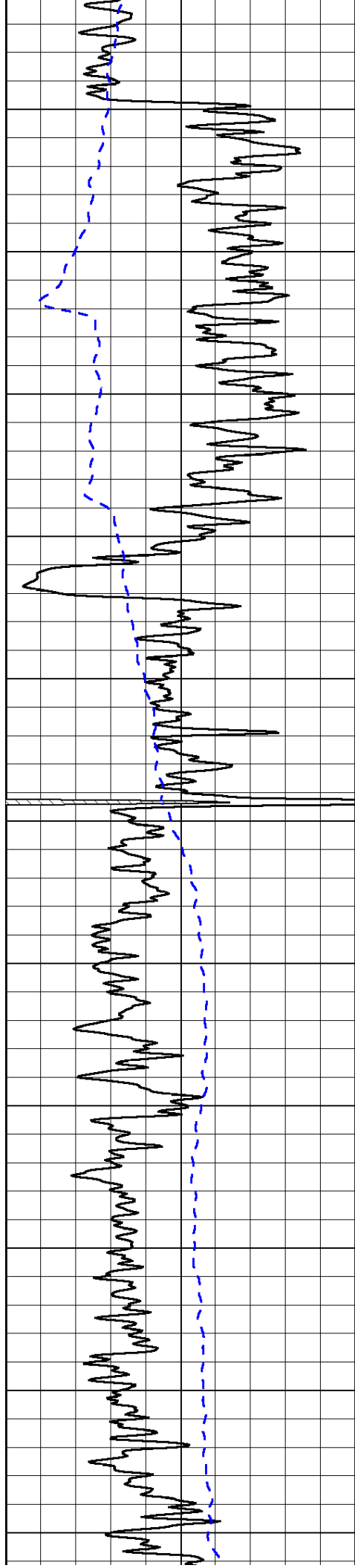
LSPD

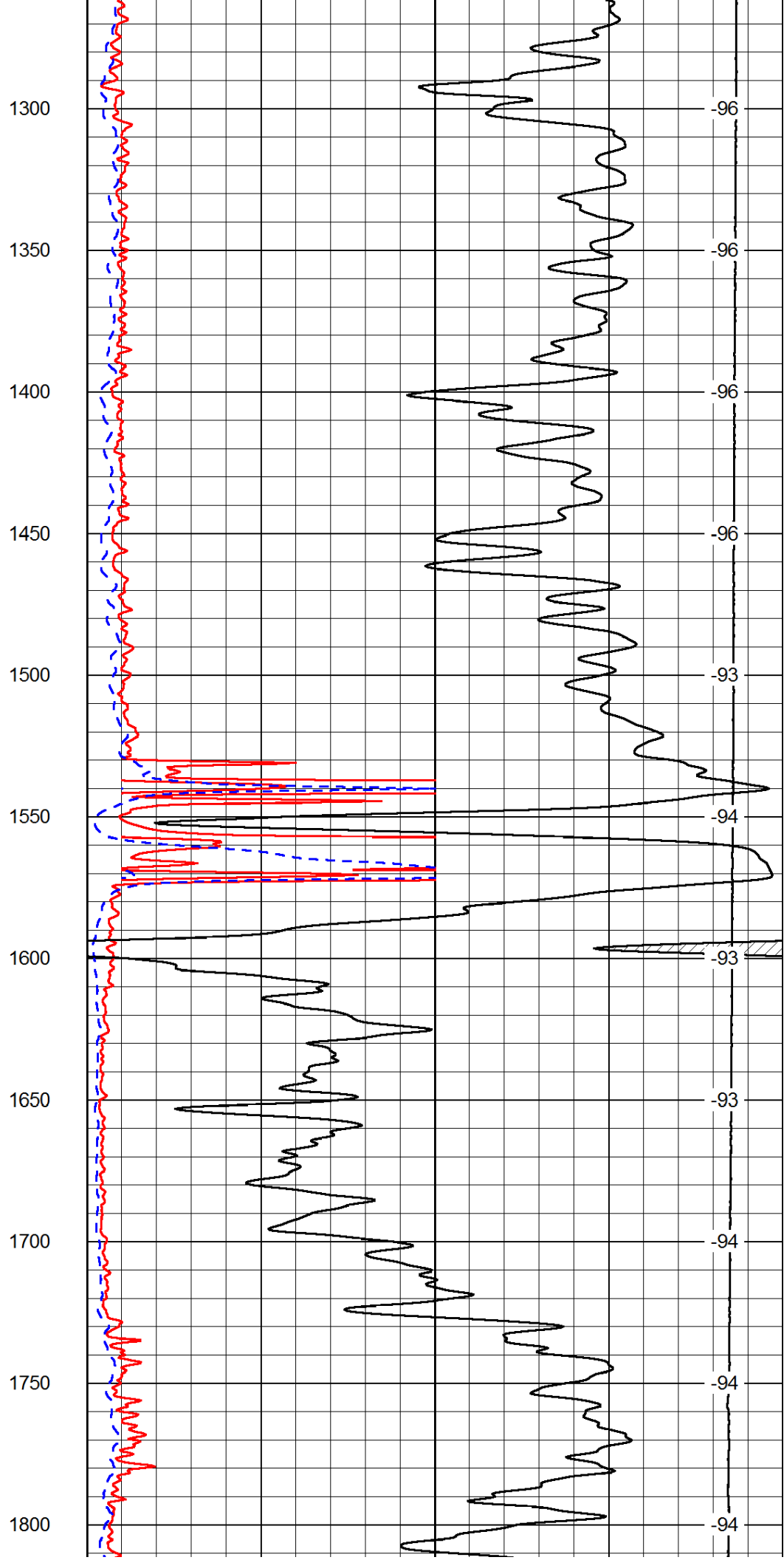
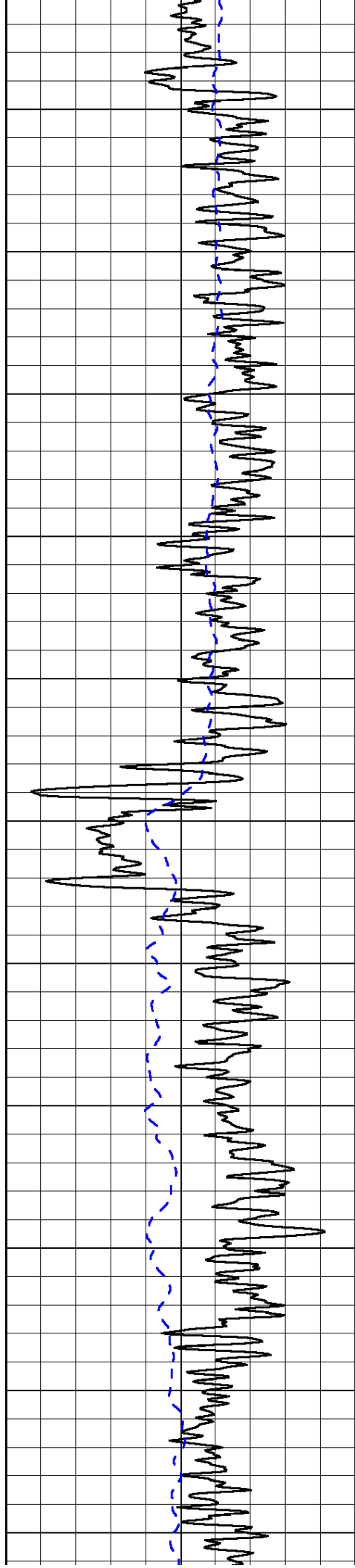
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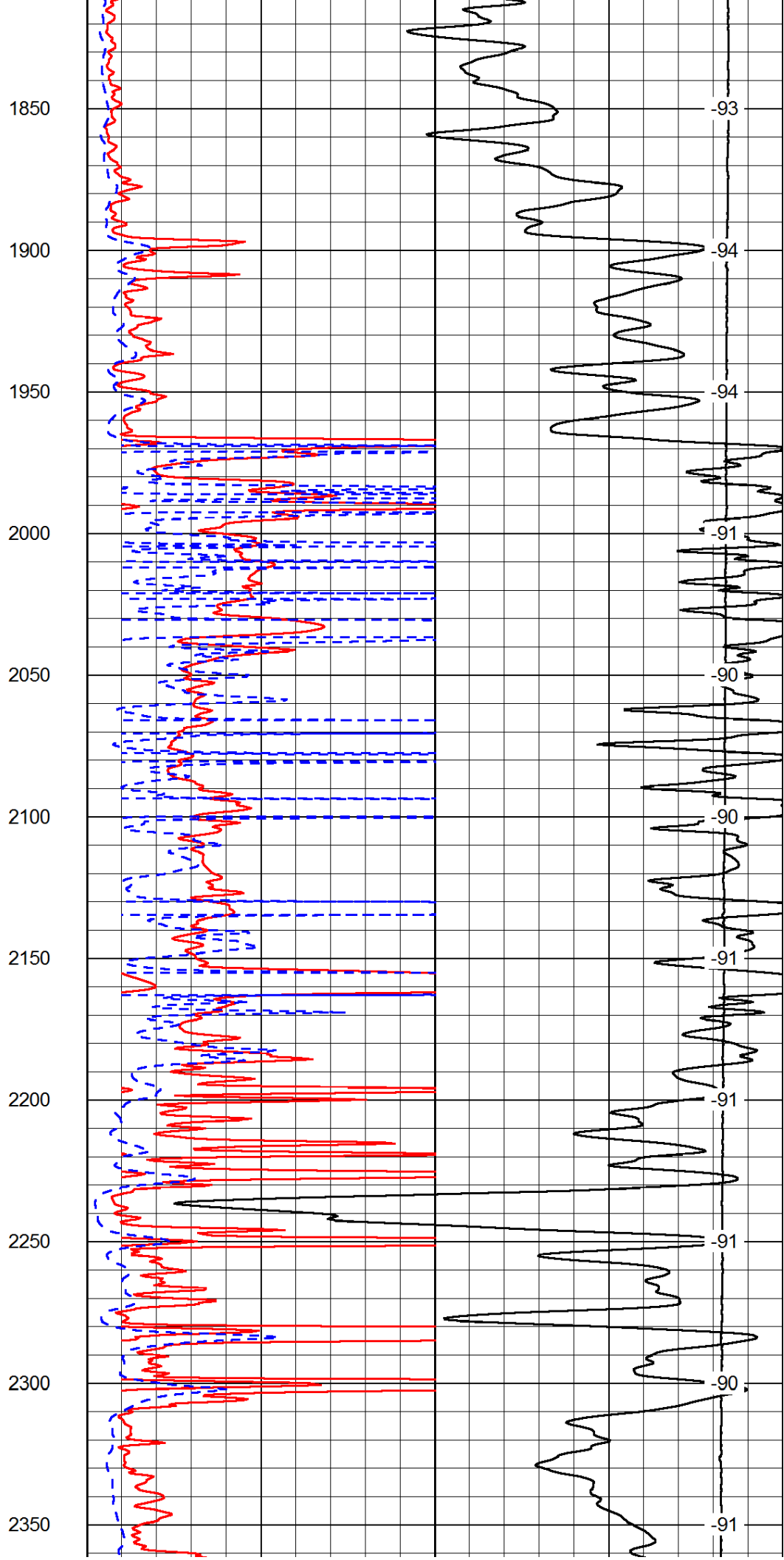
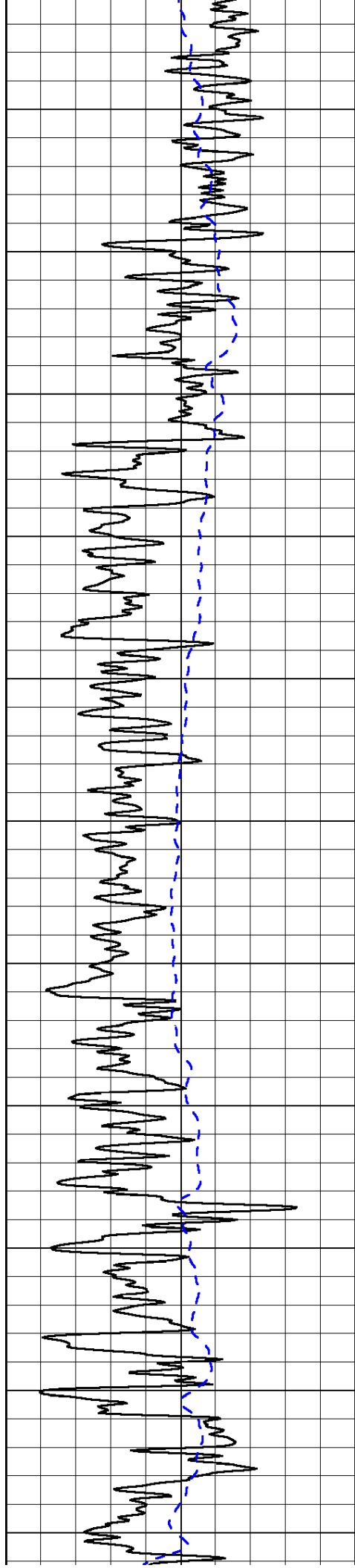
15000	Line Tension	0
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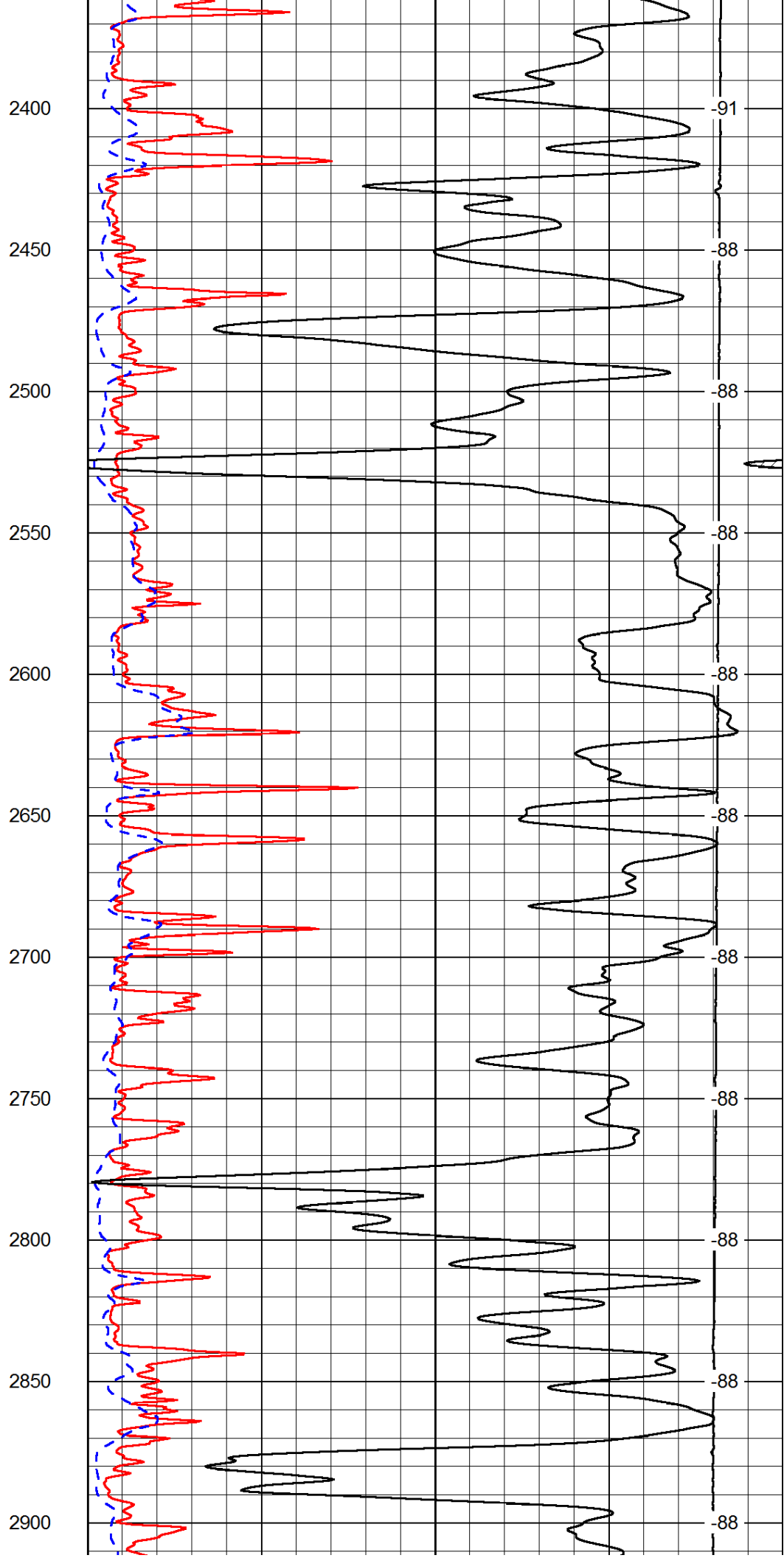
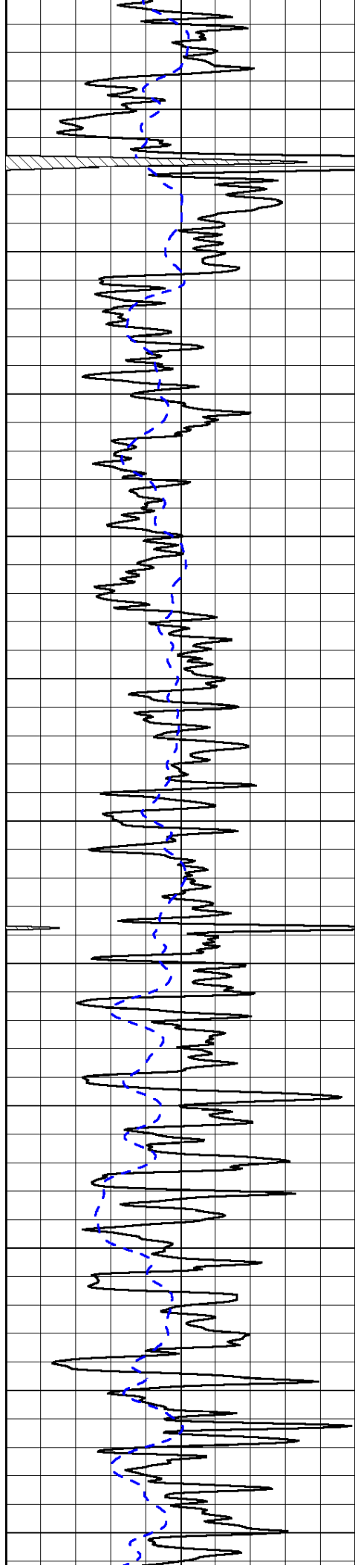
50	Shallow Resistivity	500
50	Deep Resistivity	500

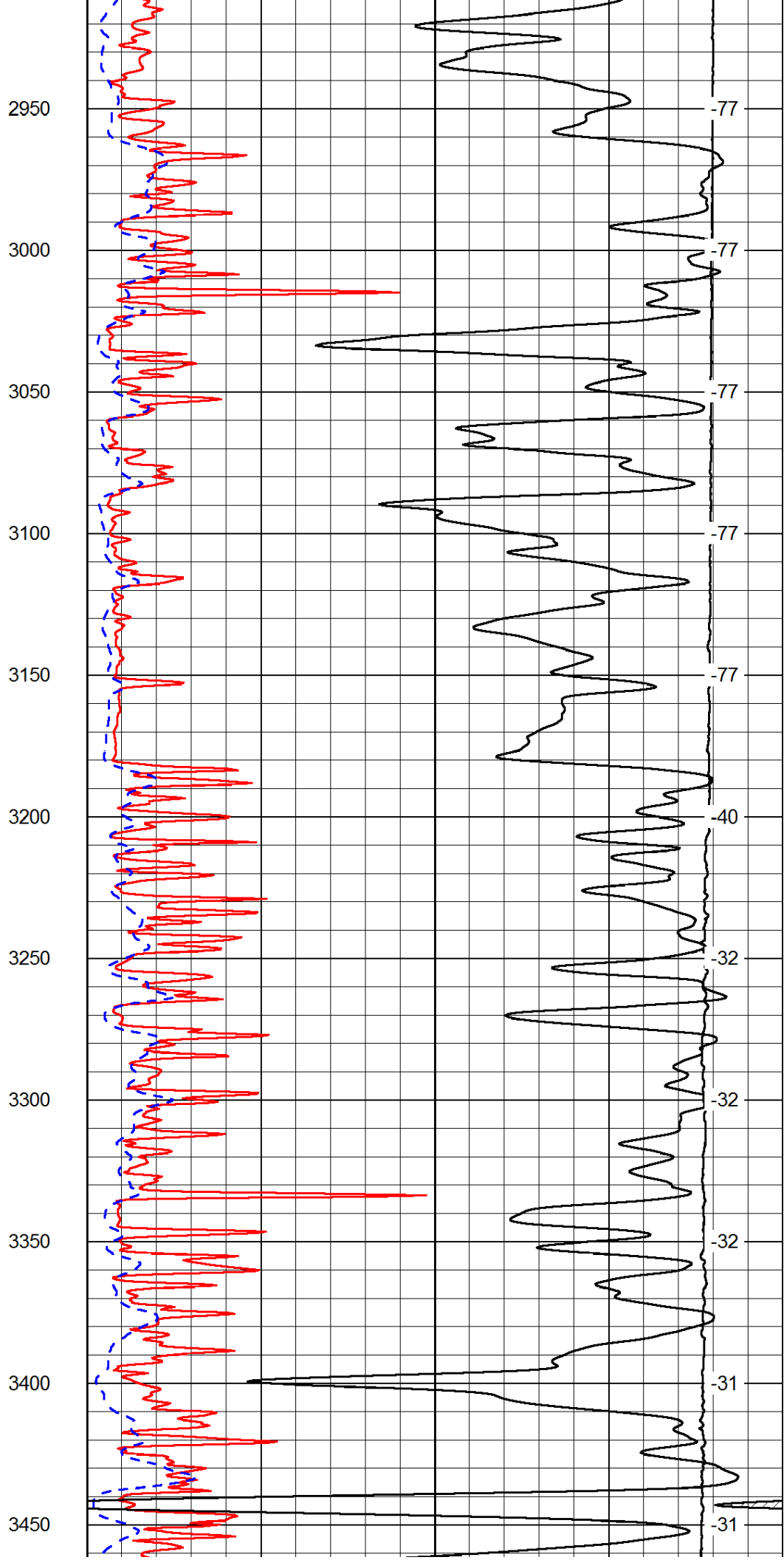
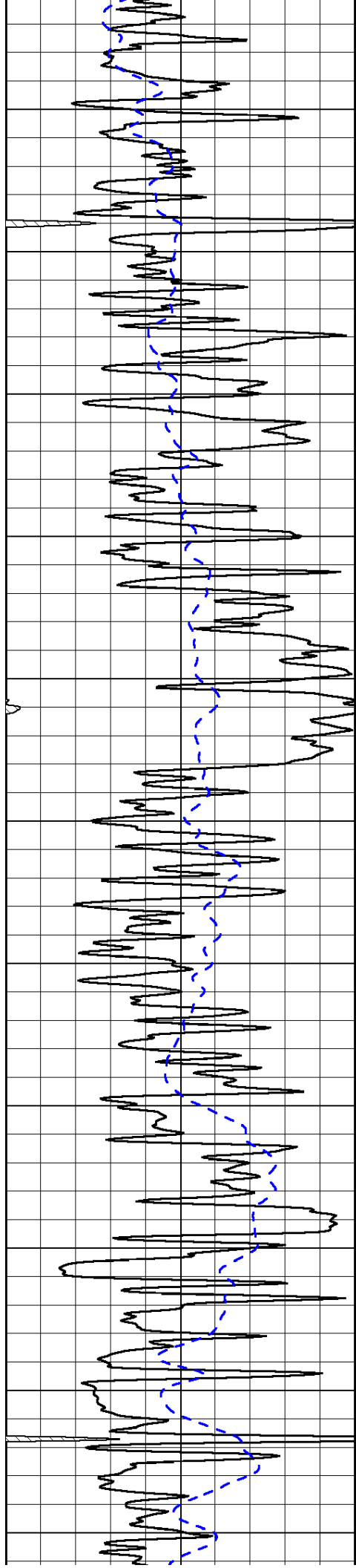


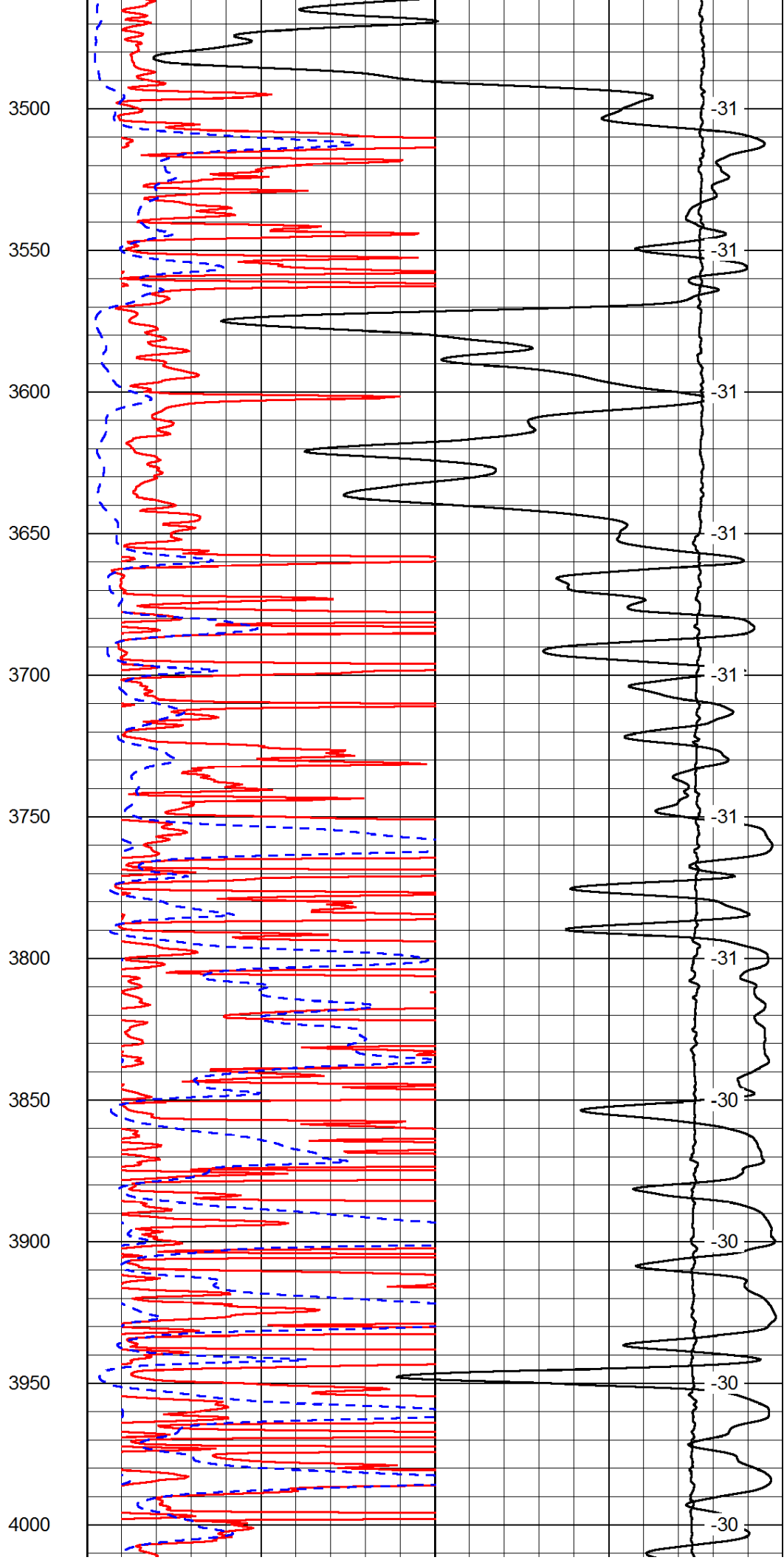
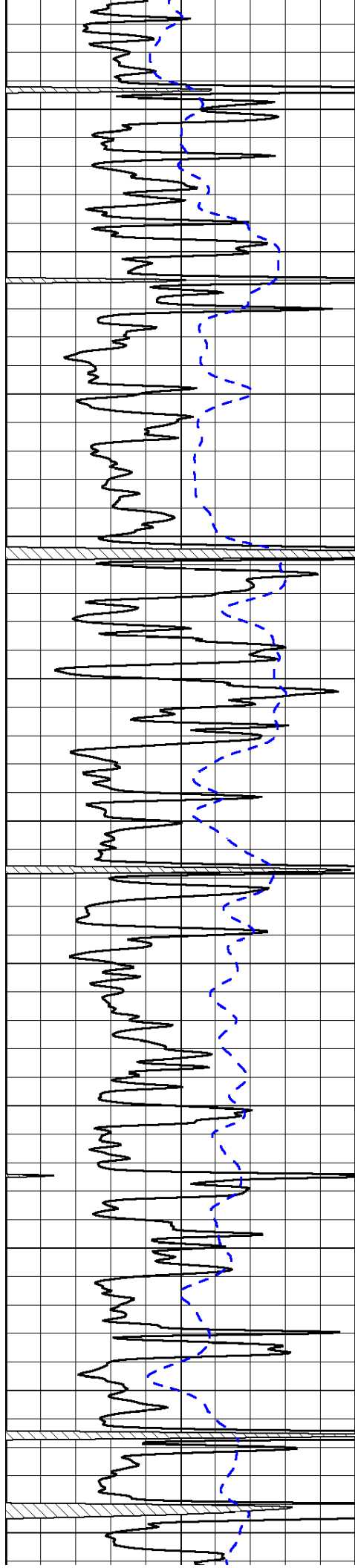


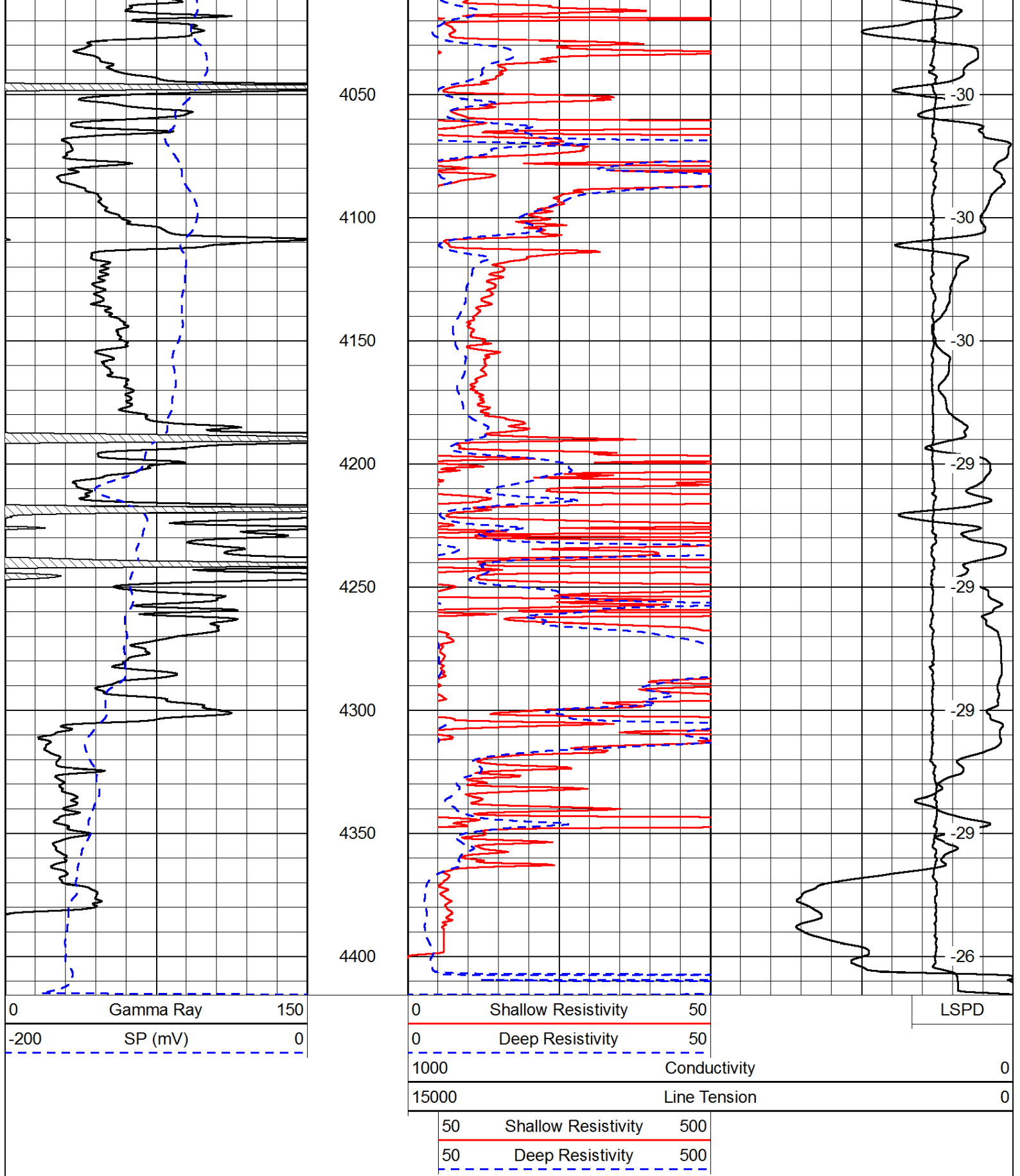












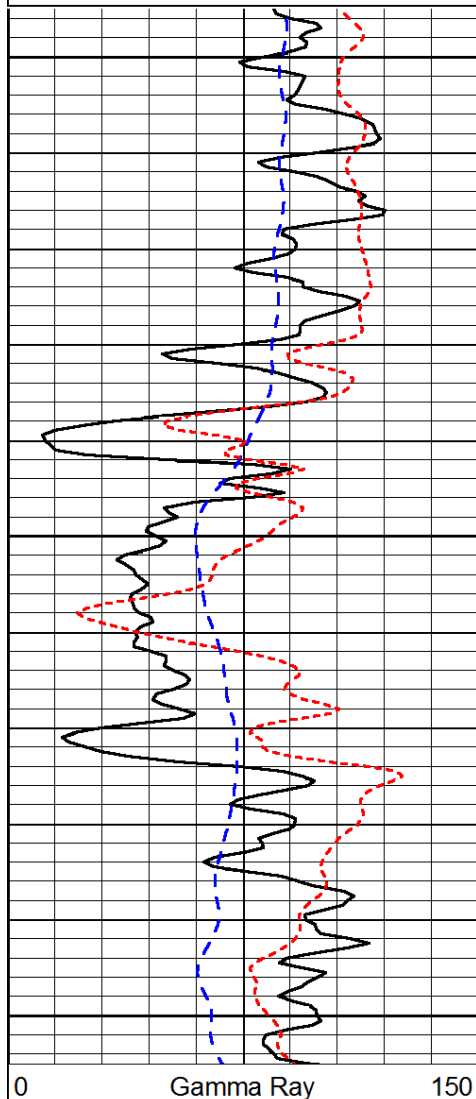
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Presentation Format: dil
Dataset Creation: Sat Jul 13 09:25:59 2013
Charted by: Depth in Feet scaled 1:240



-200	SP (mV)	0
-160	RxoRt	40

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

LSPD

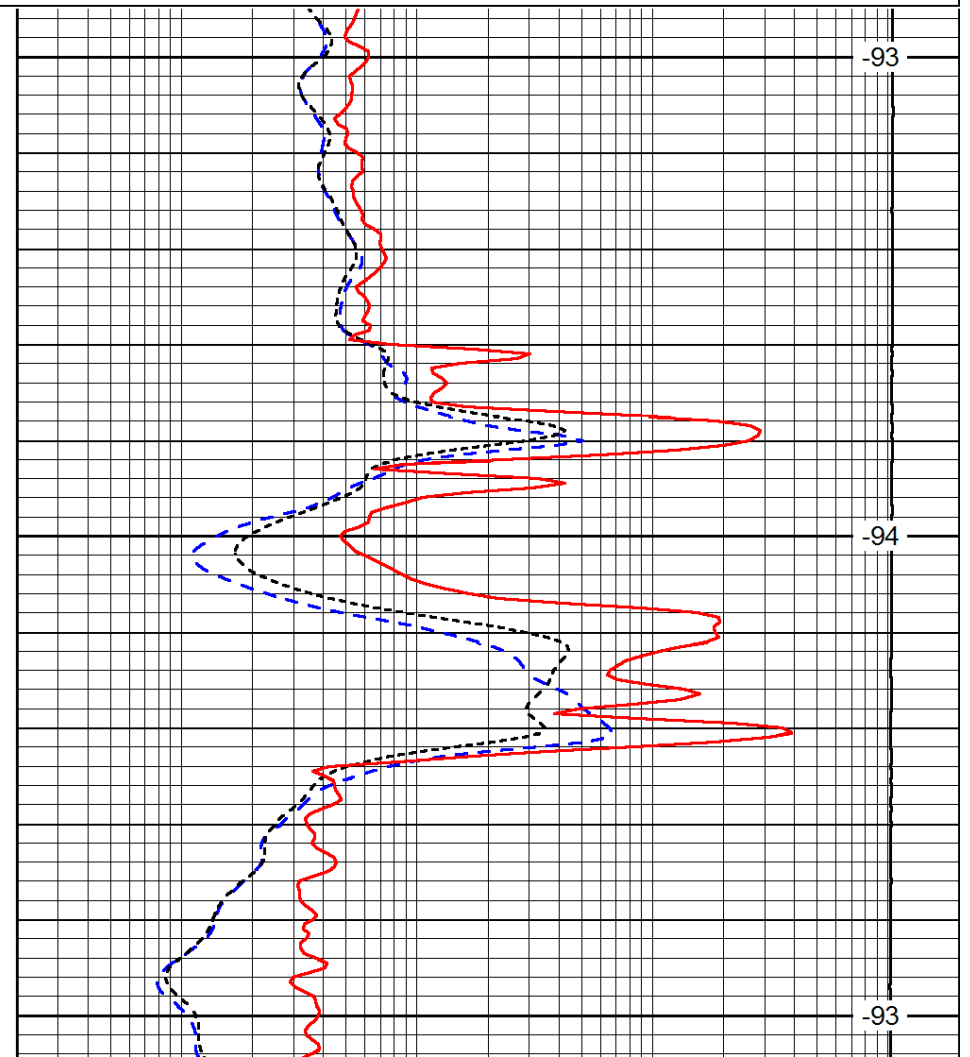


0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

1500

1550

1600



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

LSPD

-93

-94

-93

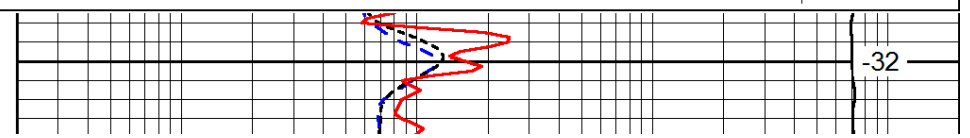
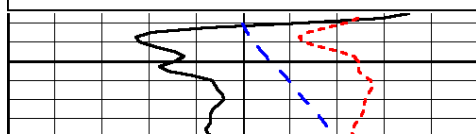
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-200	SP (mV)	0
-160	RxoRt	40

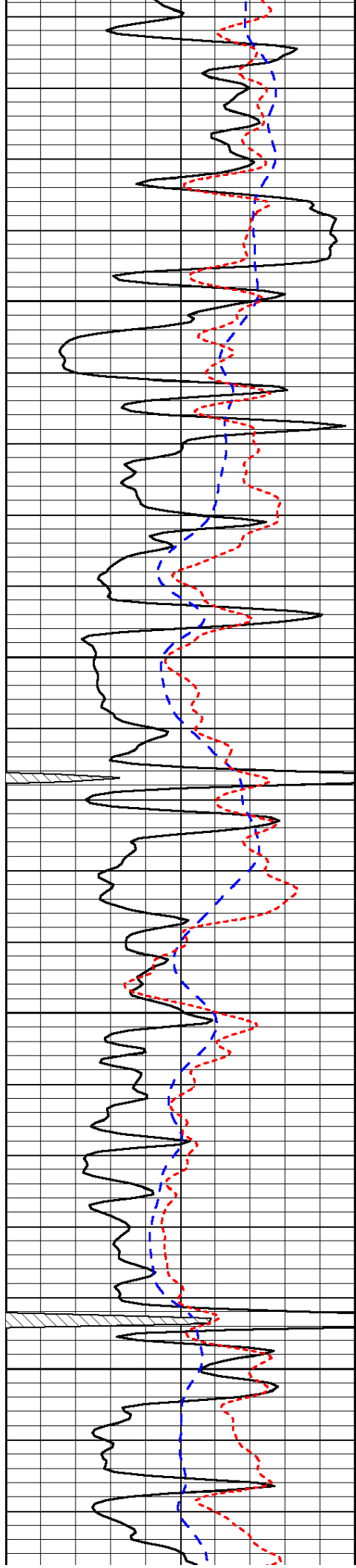
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

3300



-32

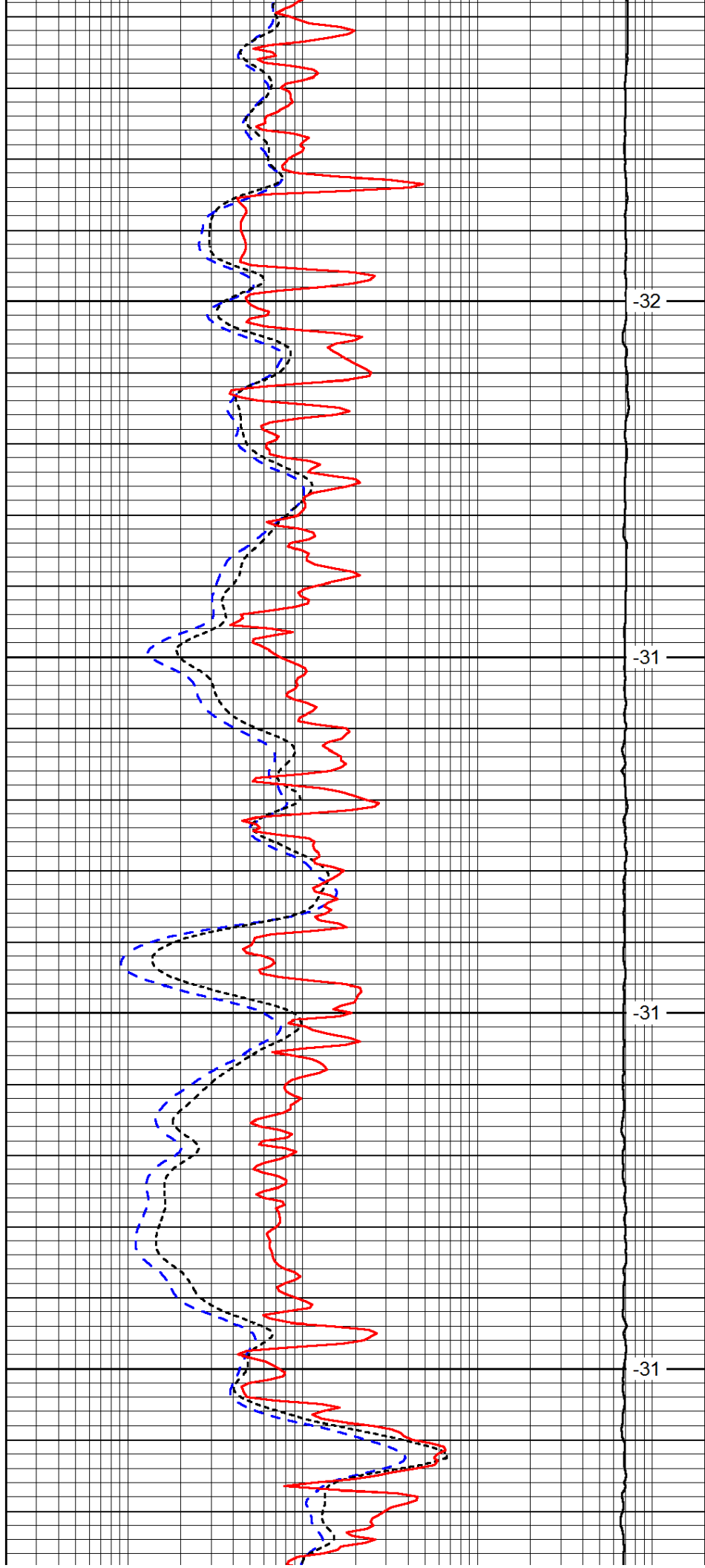


3350

3400

3450

3500

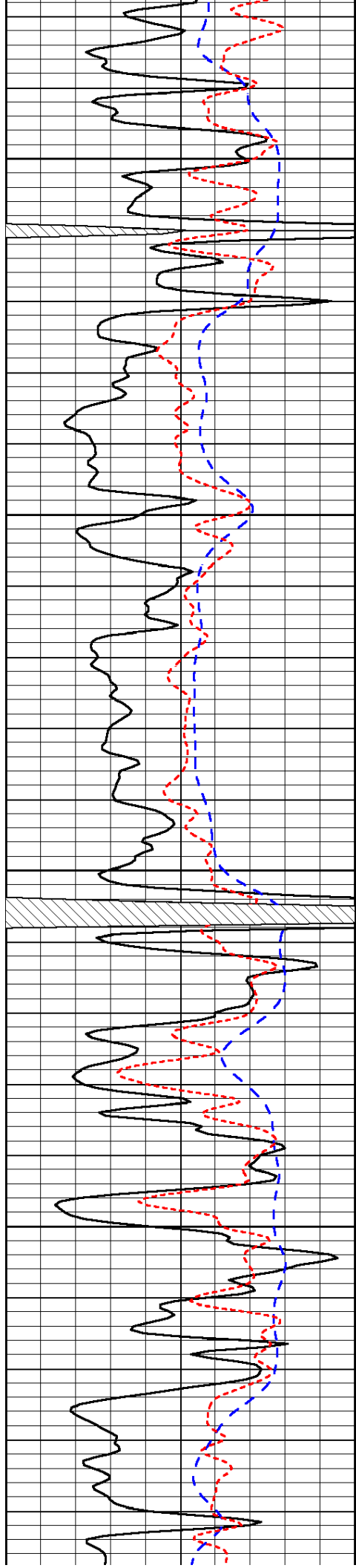


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-31

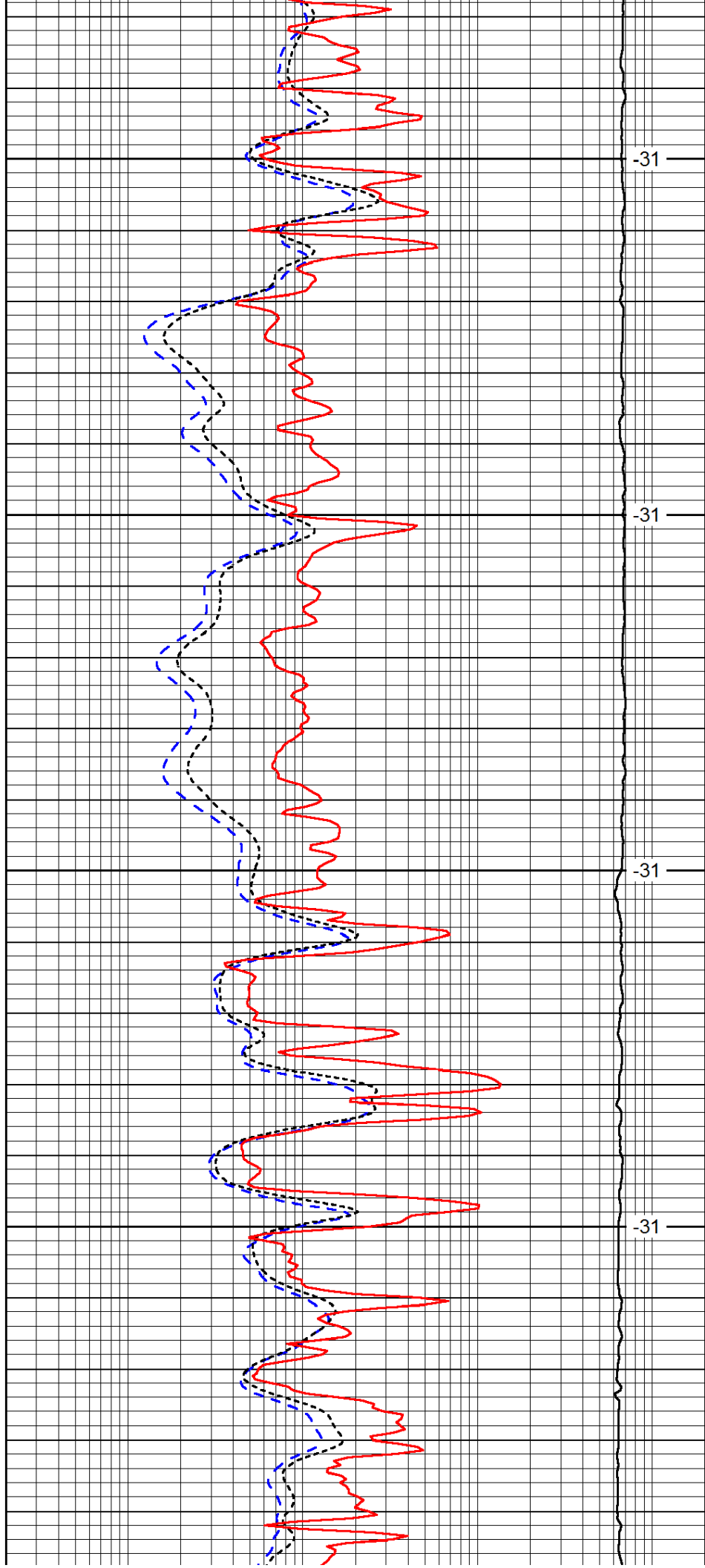


3550

3600

3650

3700

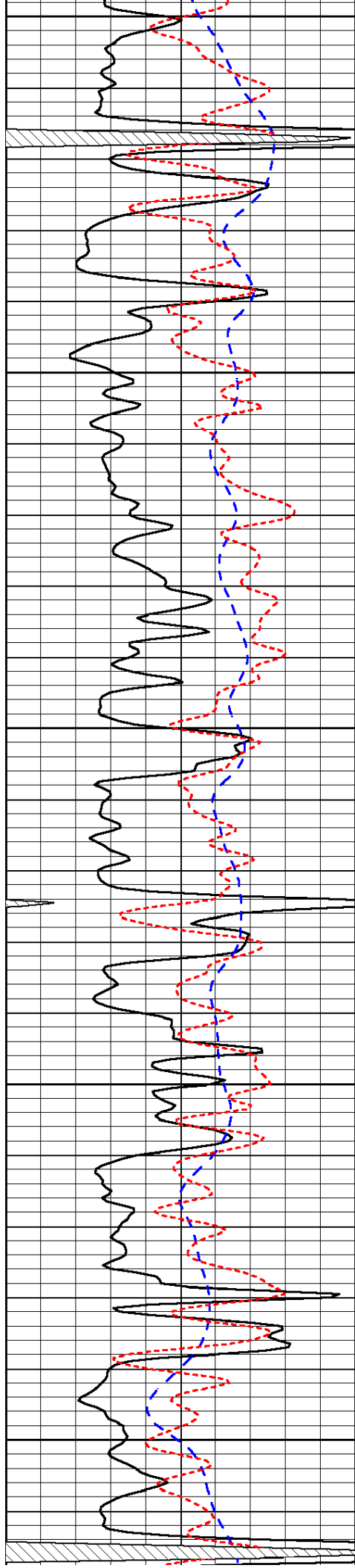


-31

-31

-31

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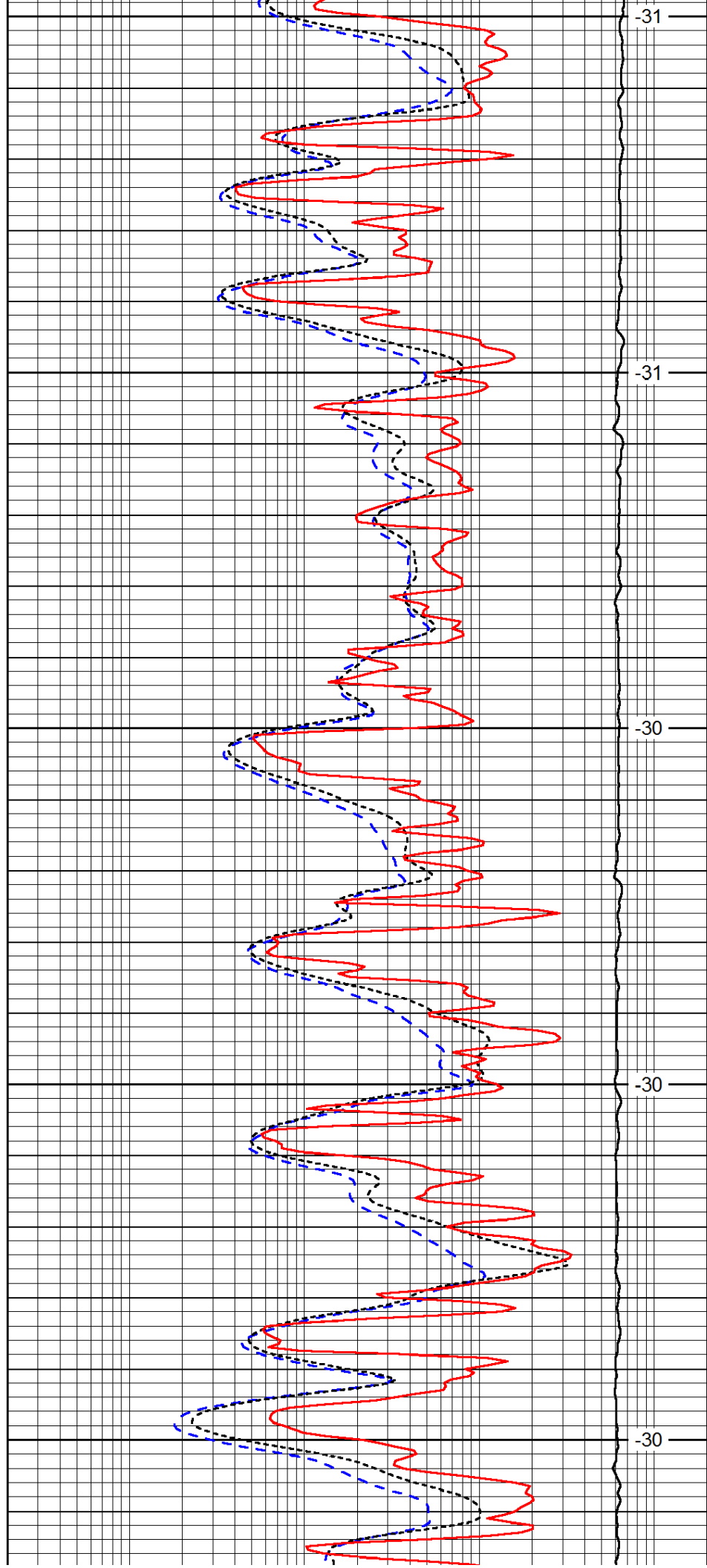
3750

3800

3850

3900

3950



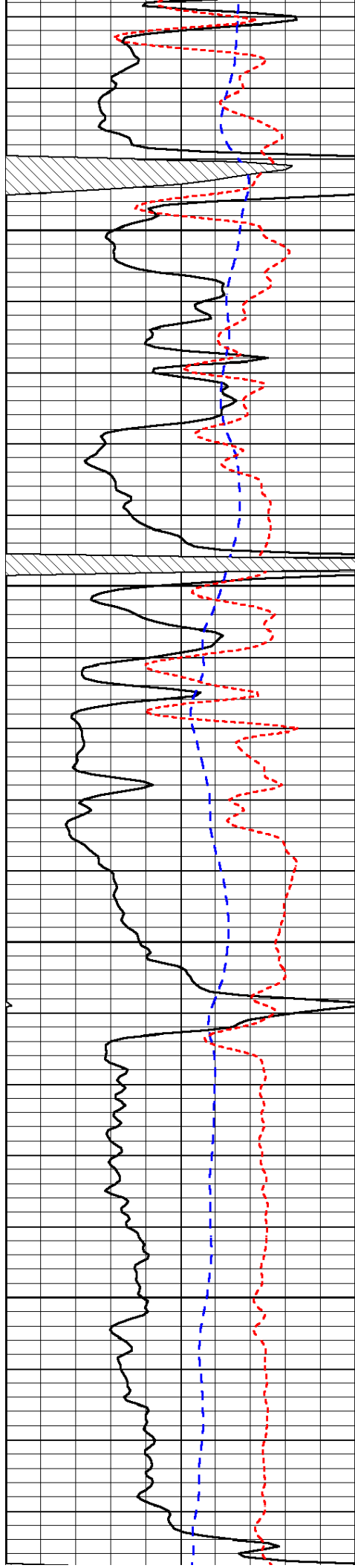
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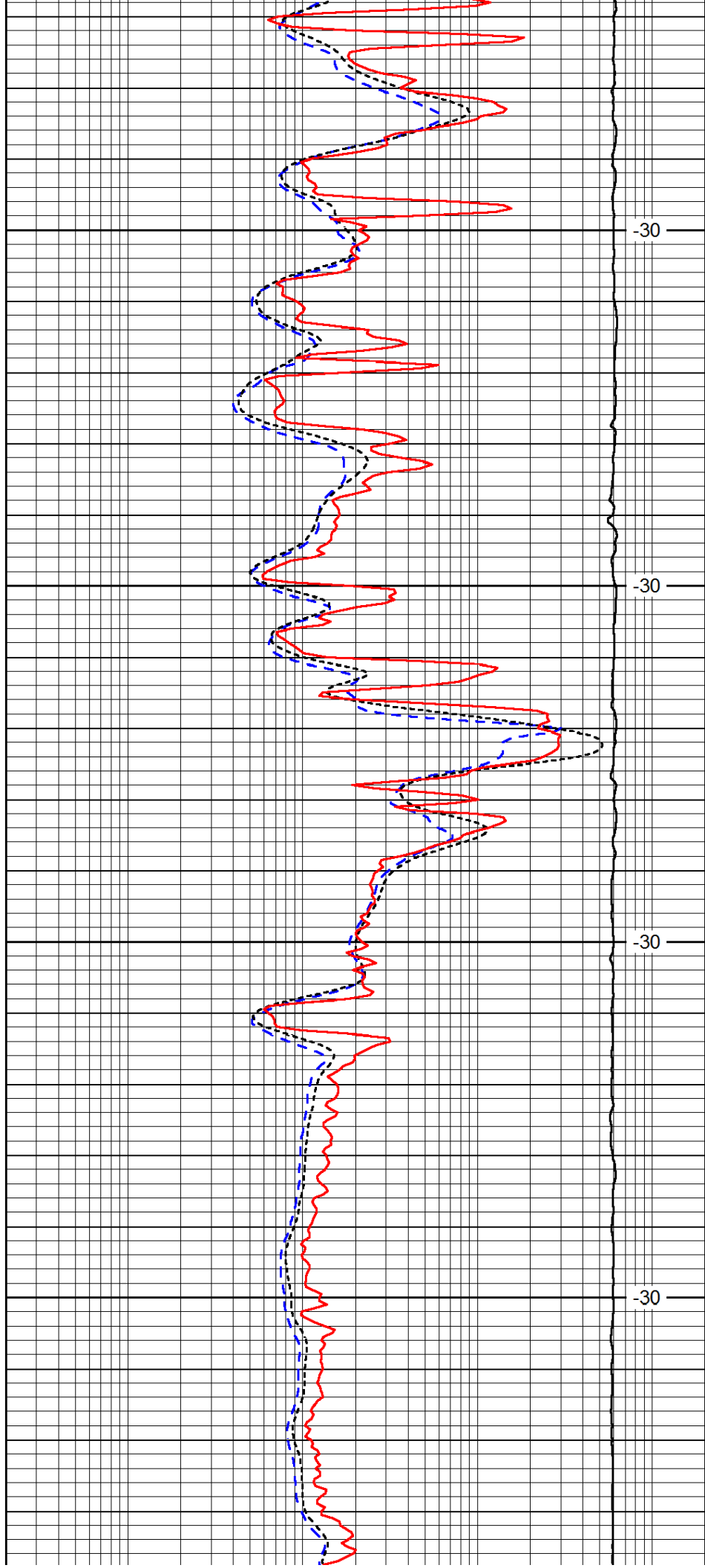


4000

4050

4100

4150

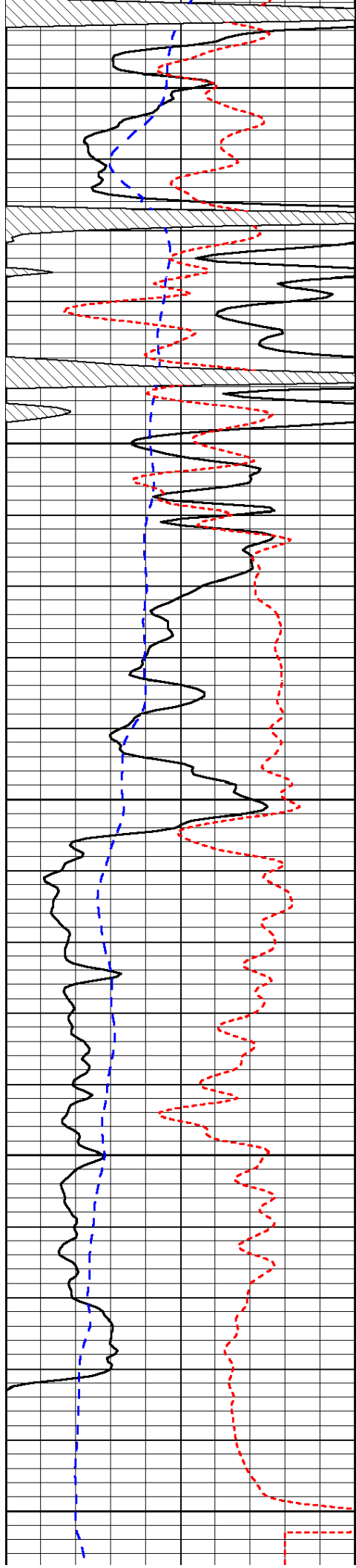


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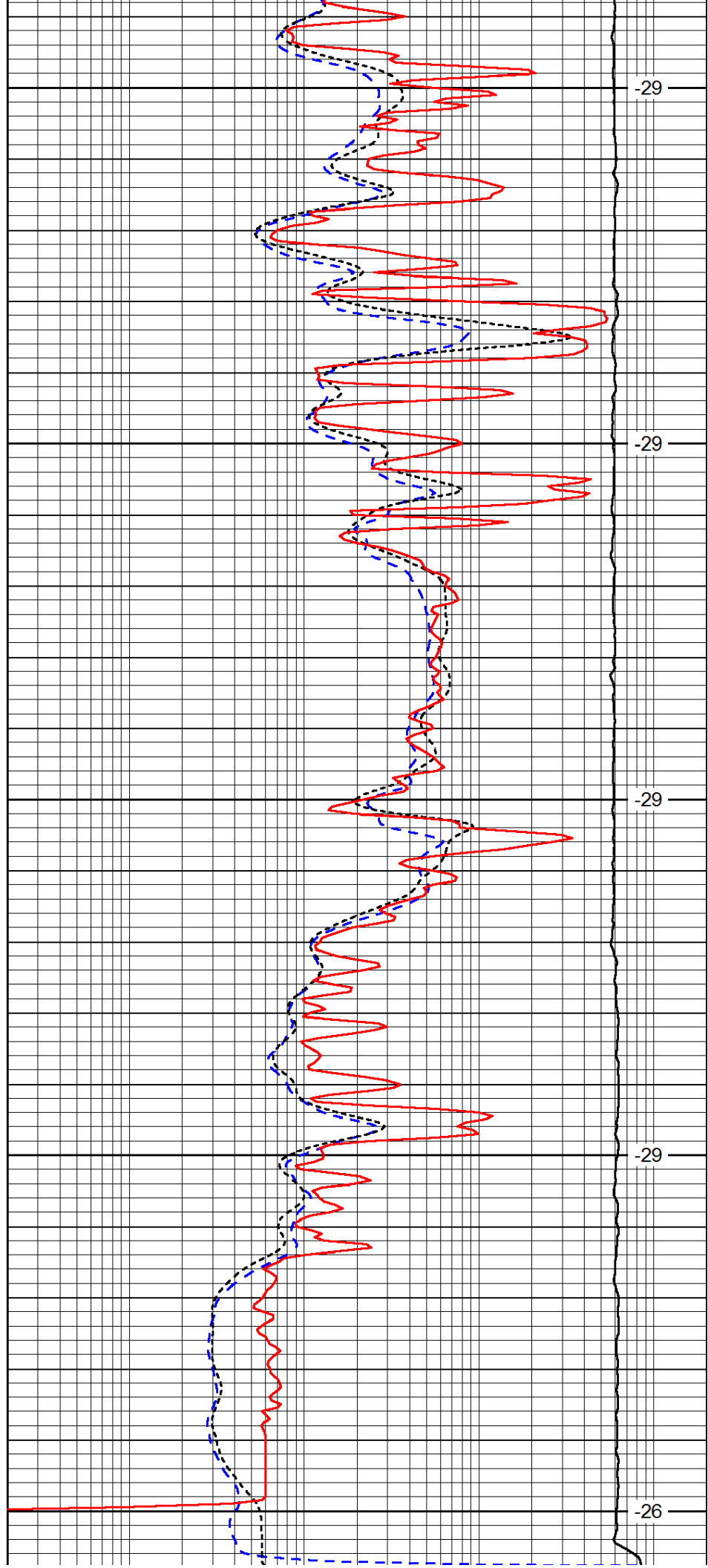
4200

4250

4300

4350

4400



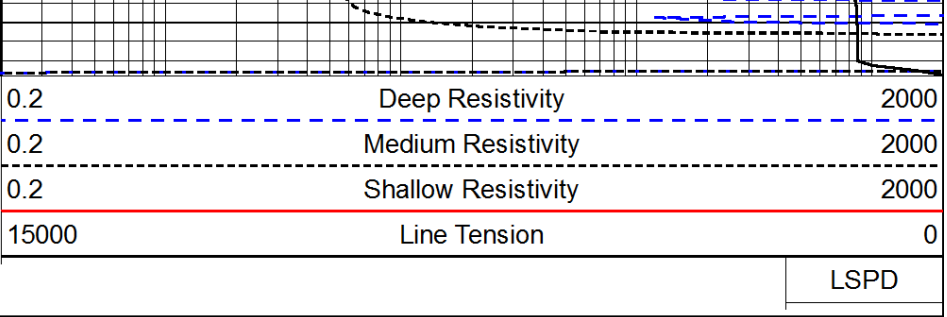
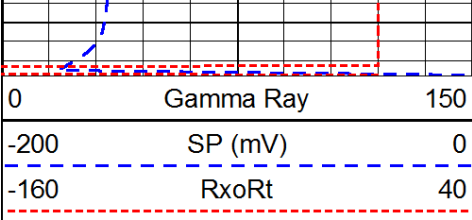
-29

-29

-29

-29

-26



LSPD