



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.		
	Well EHT #1-17		
	Field Wildcat		
	County Ness	State	Kansas
15-135-25,673-00-00	Location	2560' FNL & 2210' FWL	
	Sec: 17	Twp: 18S	Rge: 21W
	Permanent Datum	Ground Level	Elevation 2197
	Log Measured From	Kelly Bushing	6 Ft. Above Perm. Datum
	Drilling Measured From	From Kelly Bushing	K.B. 2203 D.F. 2197 G.L. 2197
Date	12/10/2013		
Run Number	One		
Depth Driller	4308		
Depth Logger	4306		
Bottom Logged Interval	4305		
Top Log Interval	200		
Casing Driller	8.625 @ 223		
Casing Logger	219		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6700		
Density / Viscosity	9.2 51		
pH / Fluid Loss	9.5 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.50 @ 46		
Rmf @ Meas. Temp	0.38 @ 46		
Rmc @ Meas. Temp	0.68 @ 46		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.19 @ 119		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	119		
Equipment Number	15		
Location	Hays		
Recorded By	D. Kerr		
Witnessed By	Jason Alm		

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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

Alexander KS, 5 1/2 West to FF RD,
3 North, 1/2 West, South Into

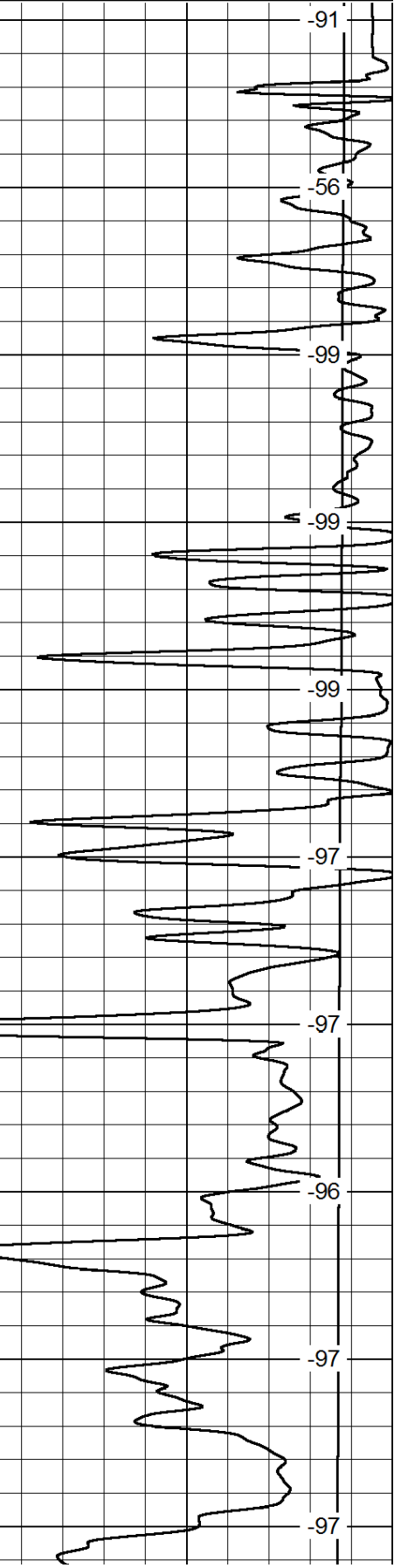
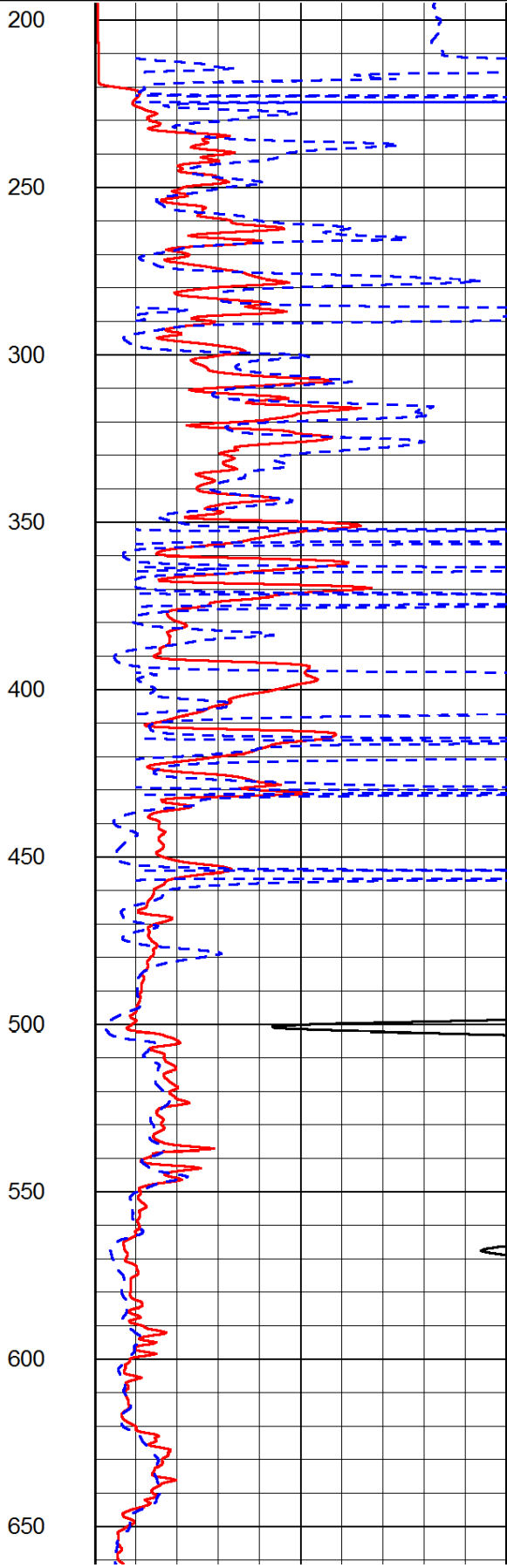
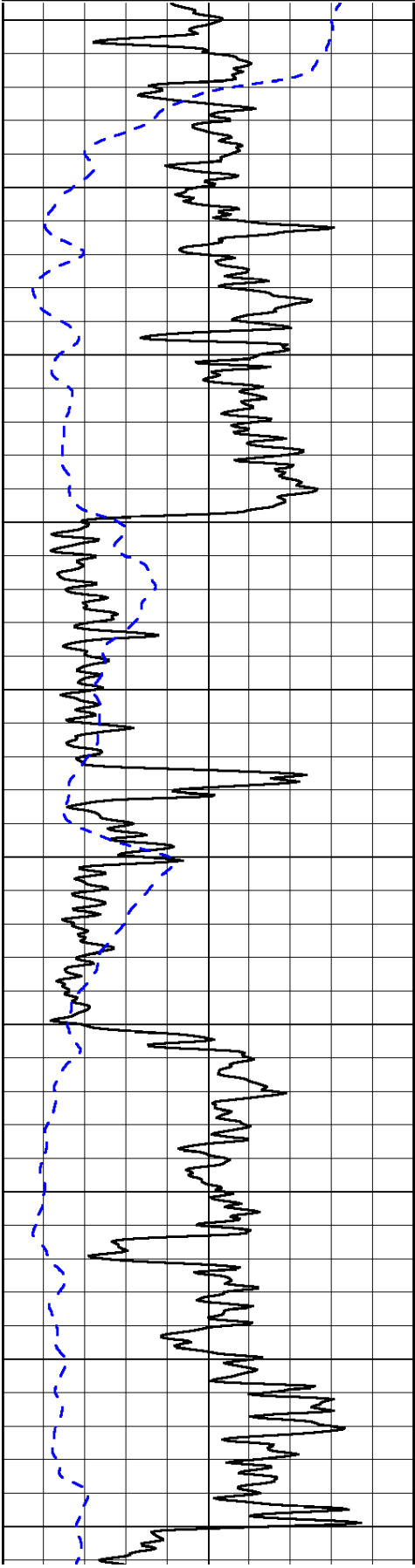
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Presentation Format: dil2in
Dataset Creation: Tue Dec 10 05:59:06 2013
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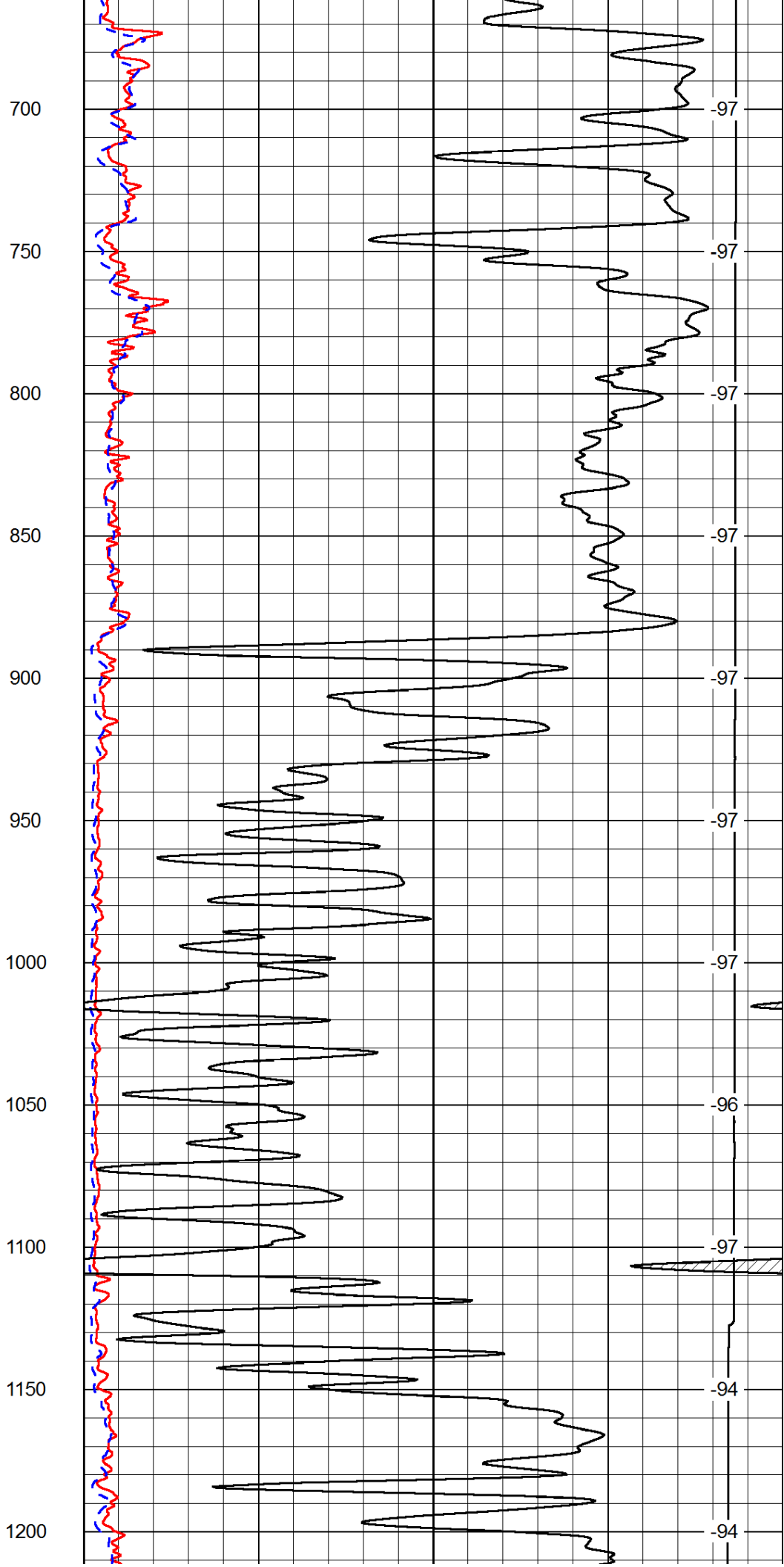
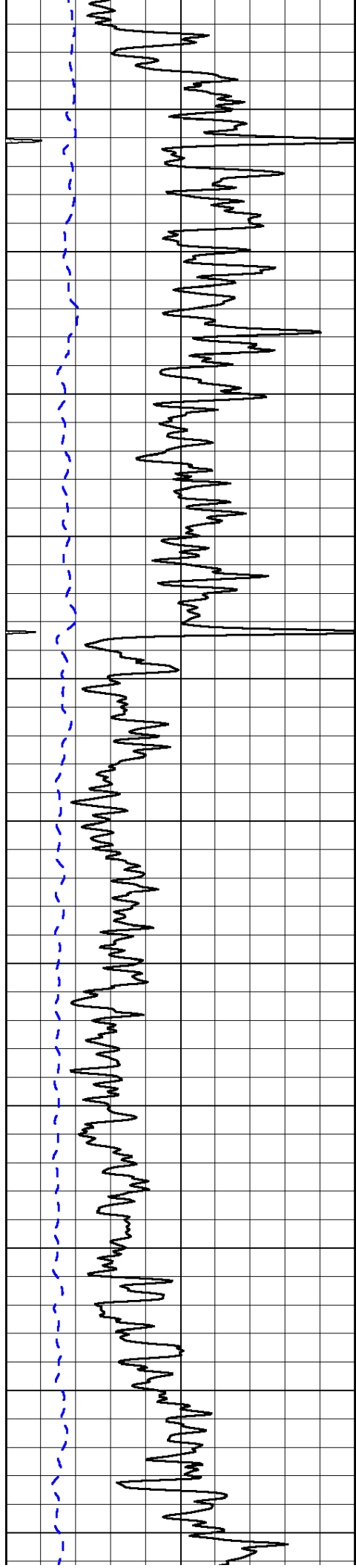
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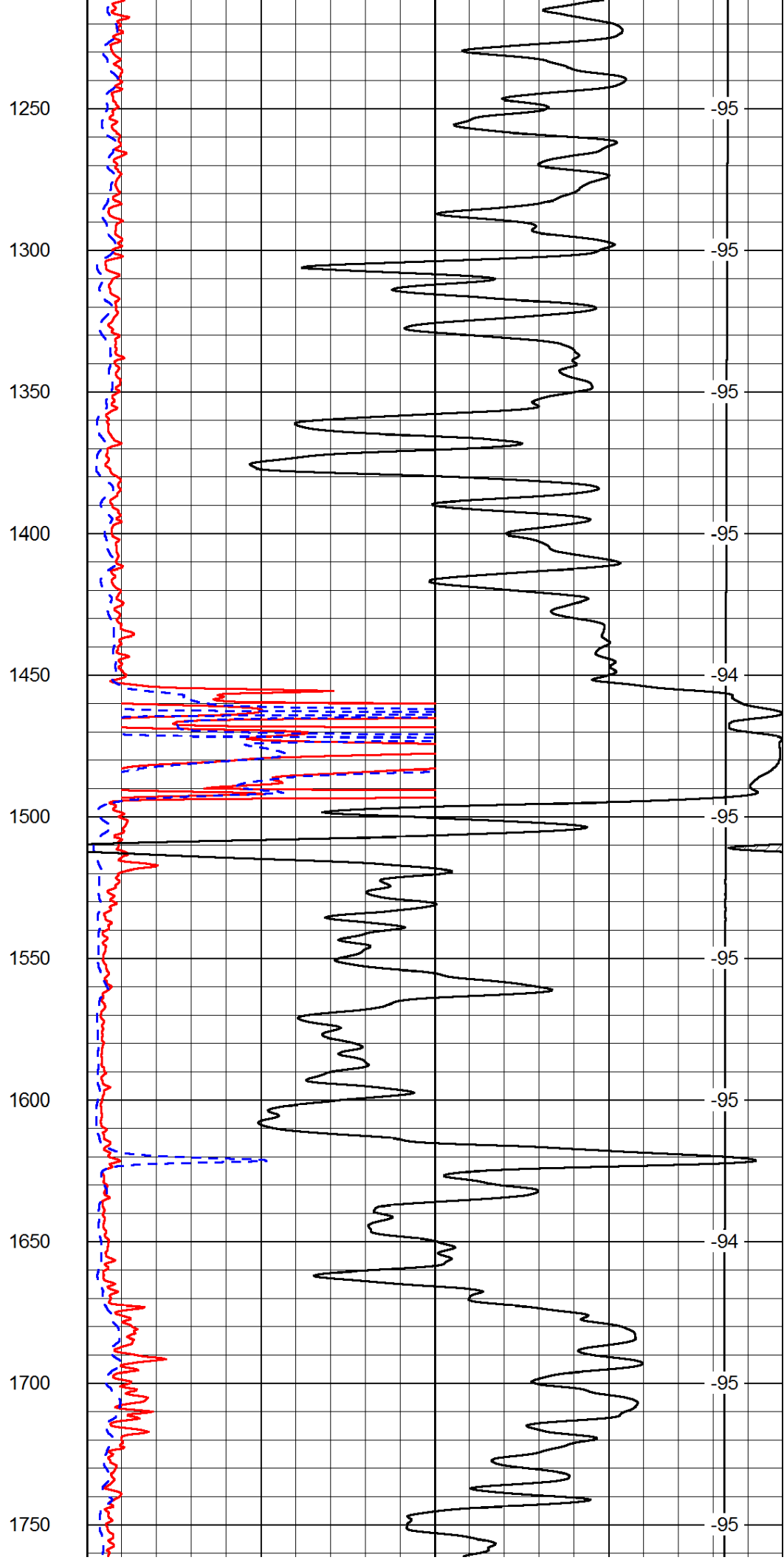
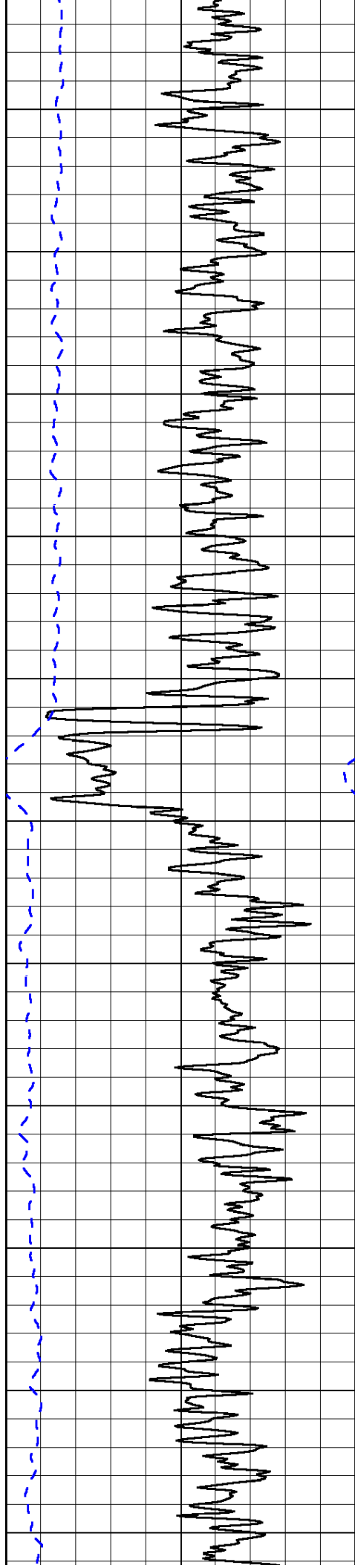
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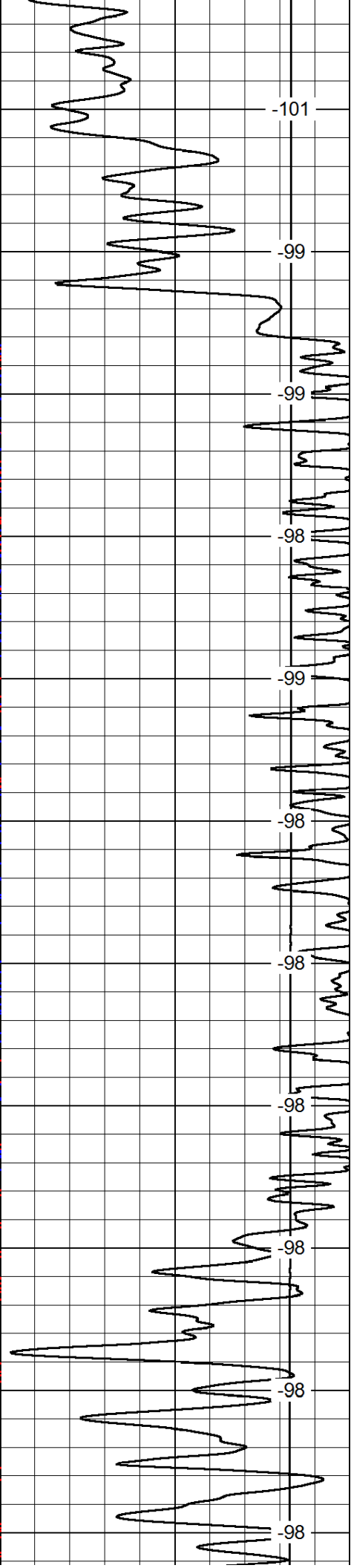
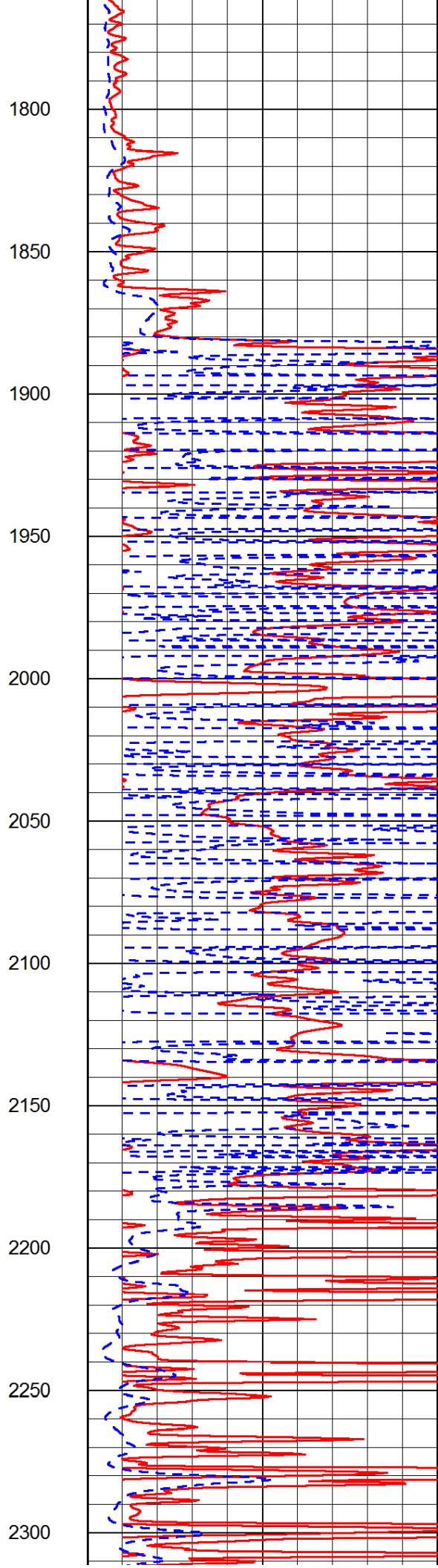
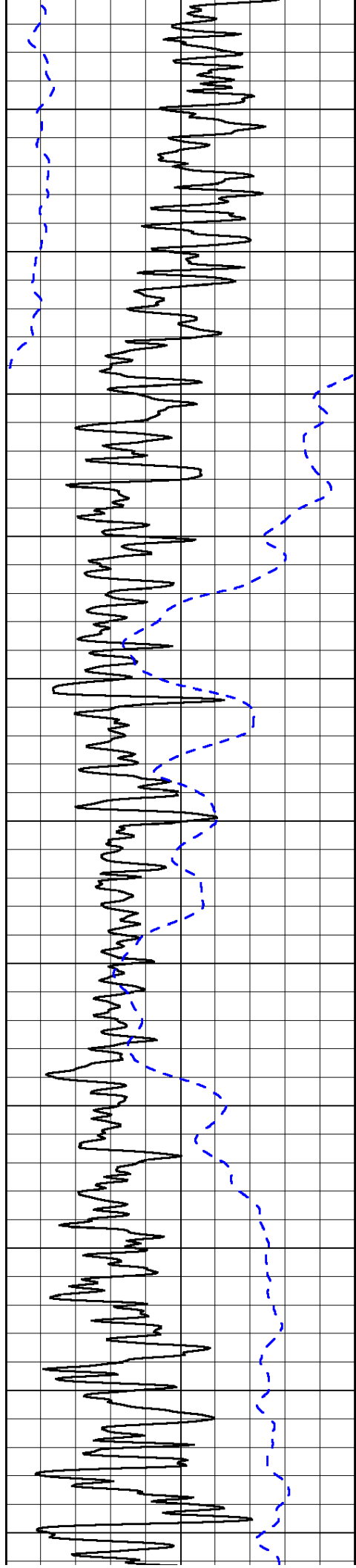
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1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

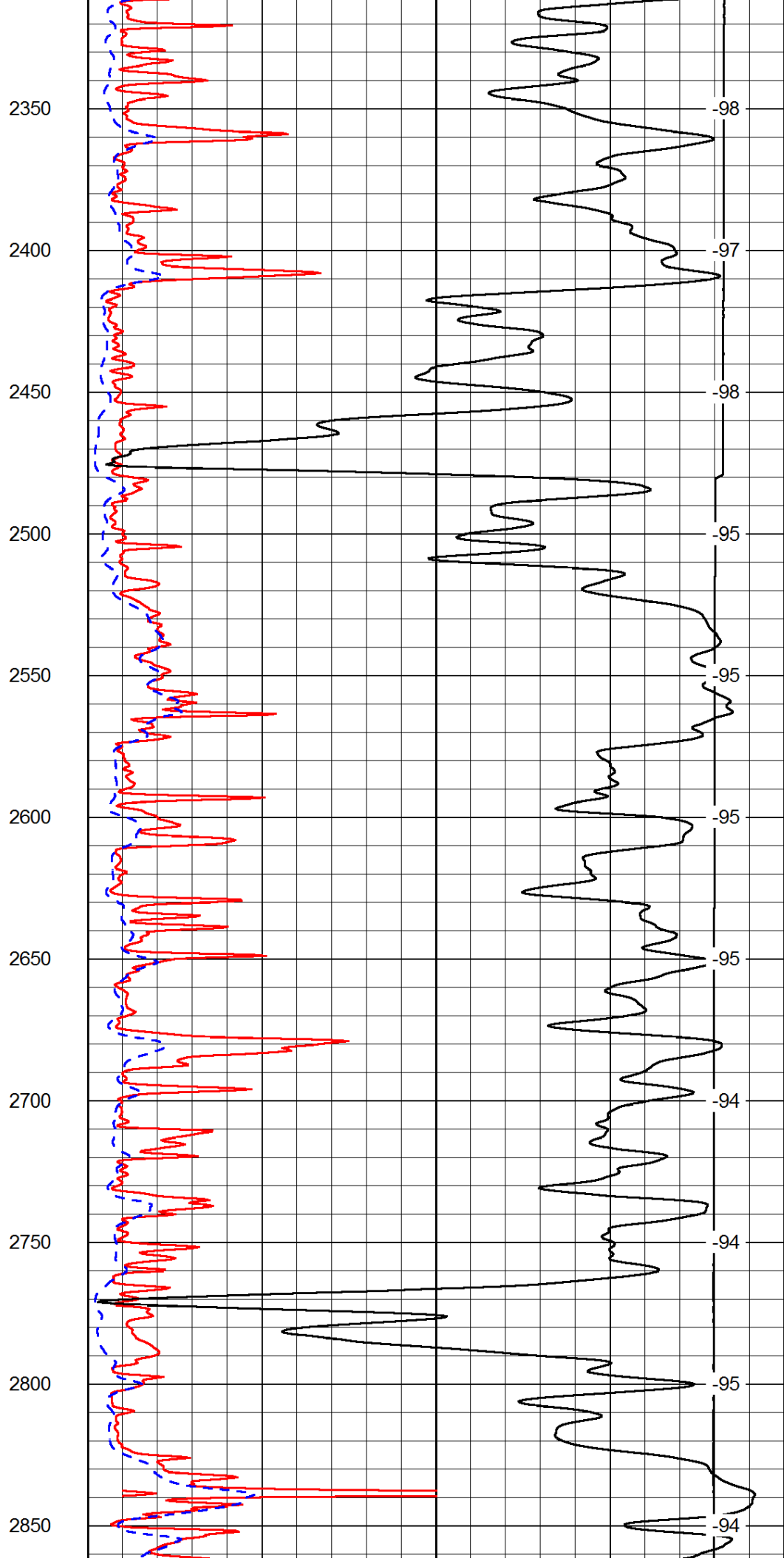
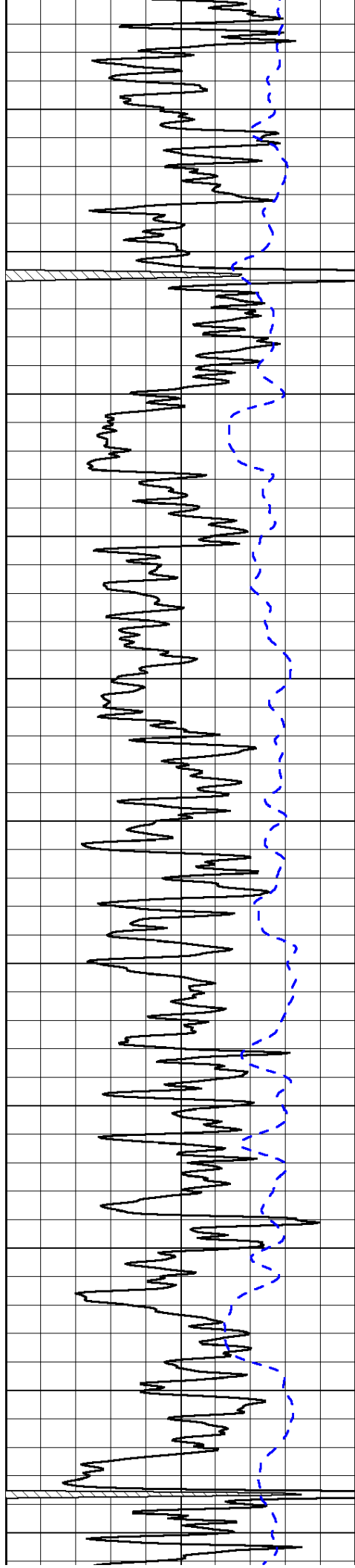
LSPD
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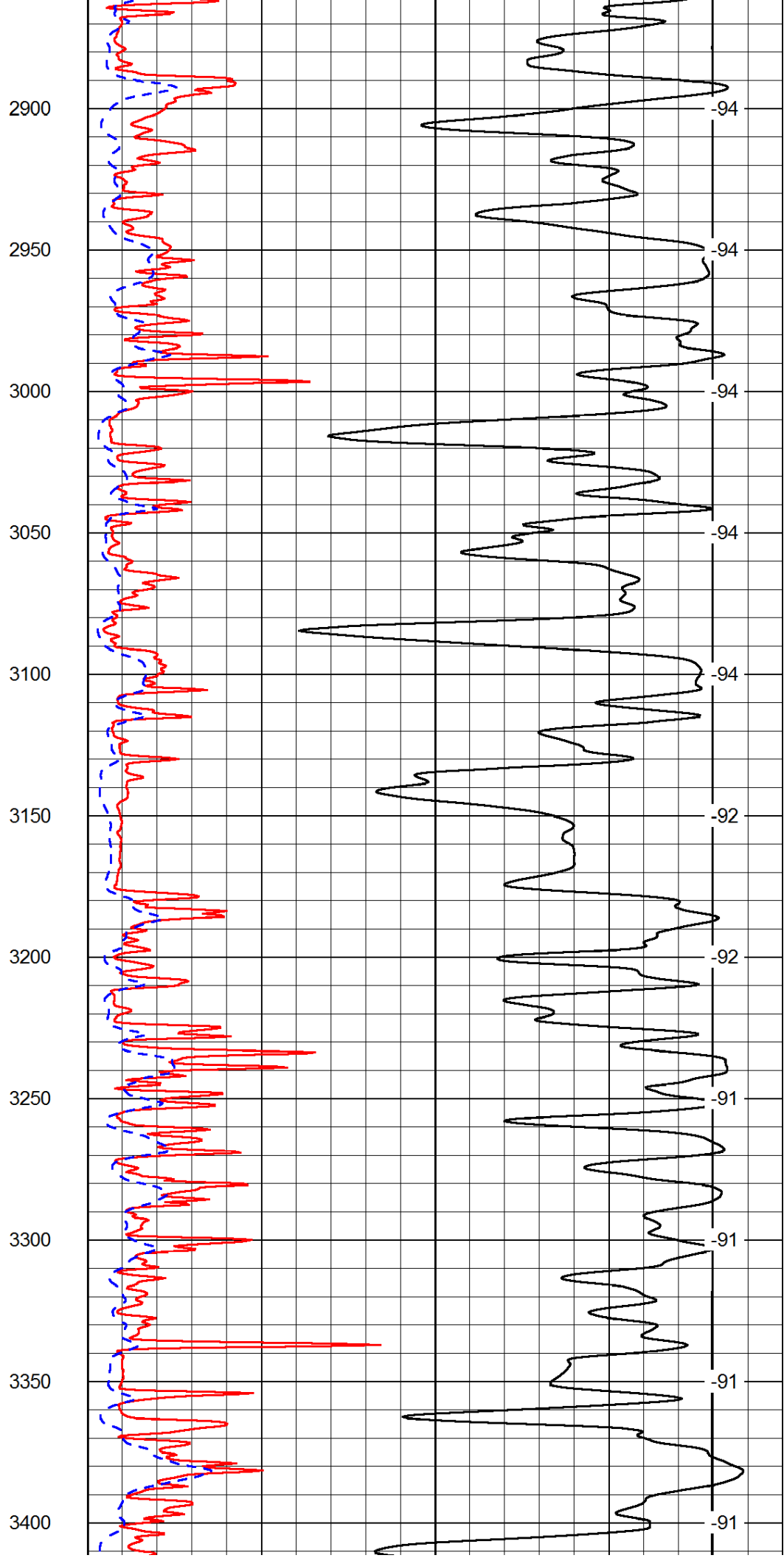
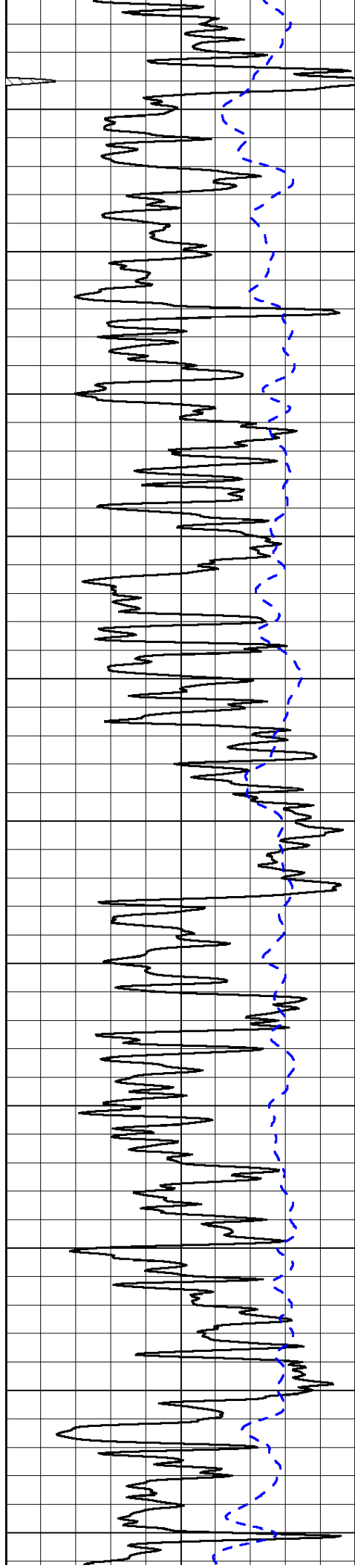


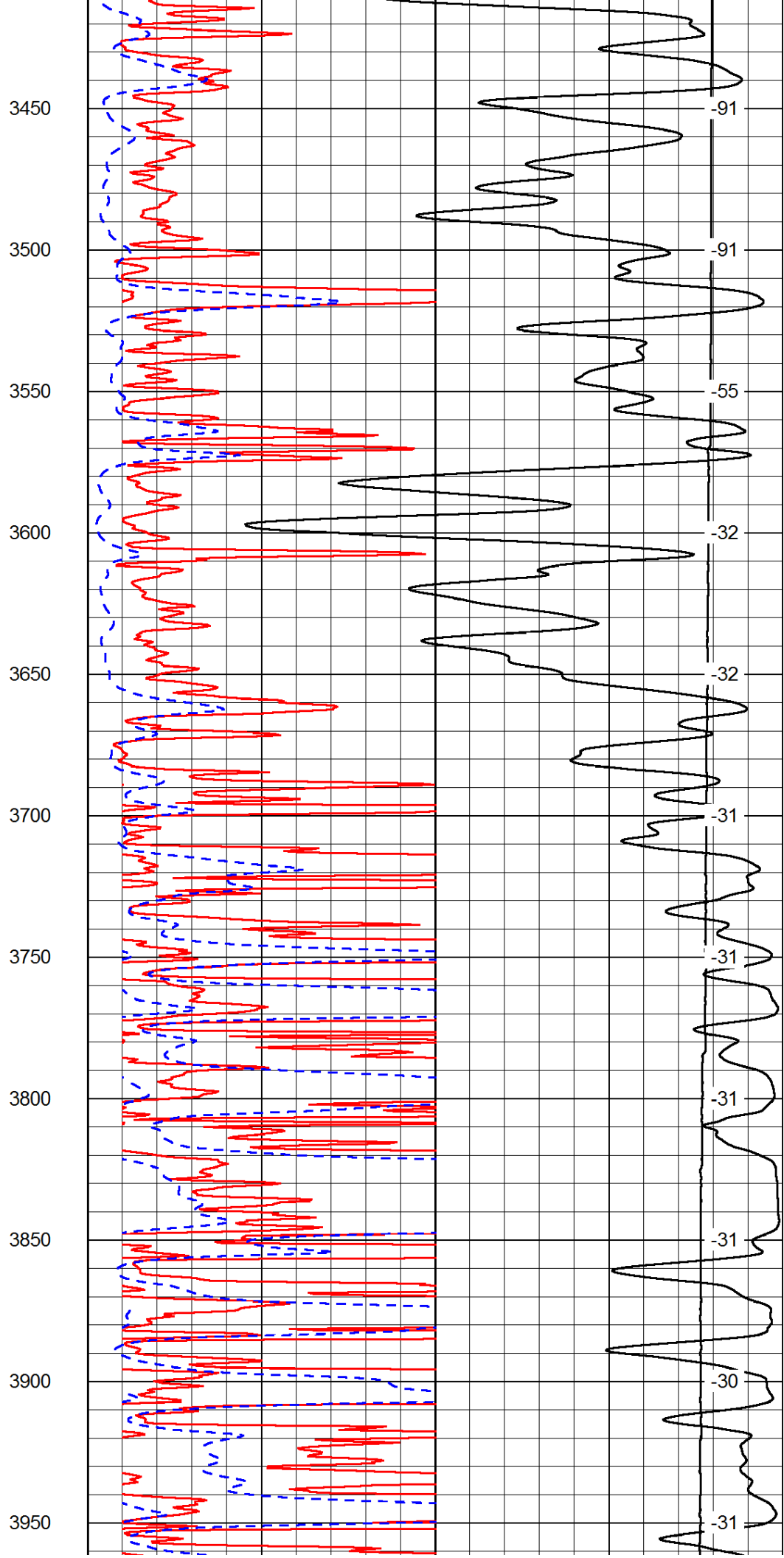
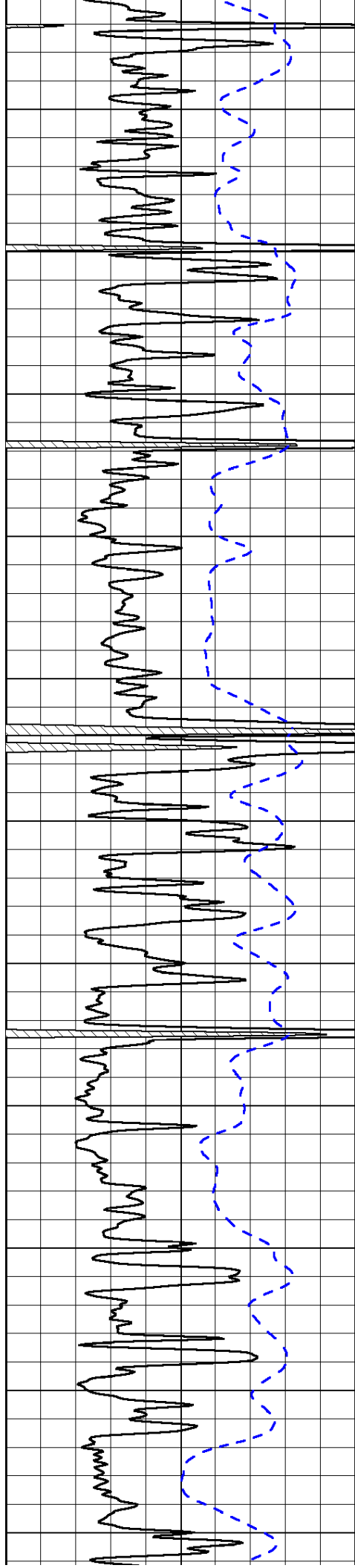


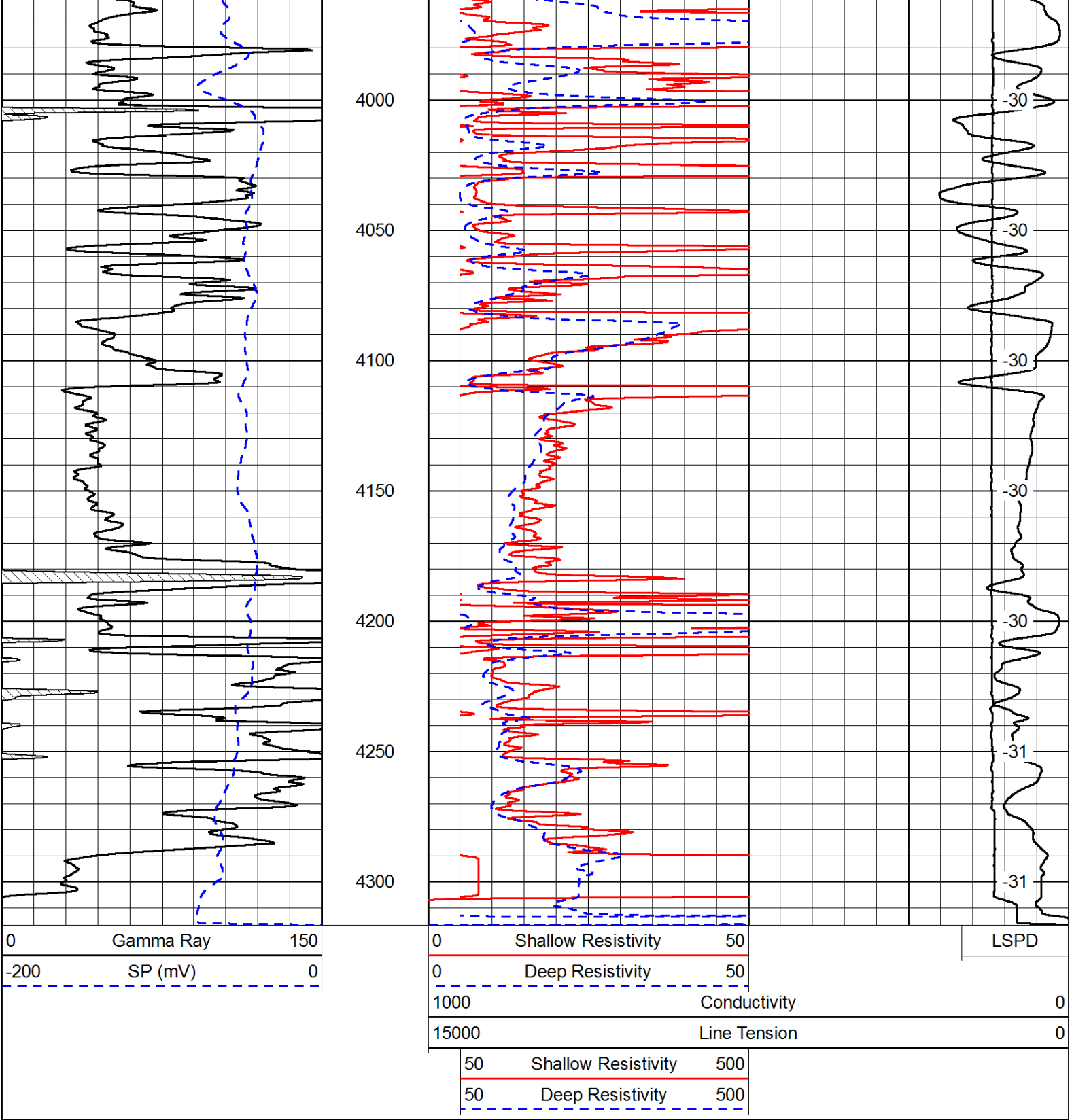




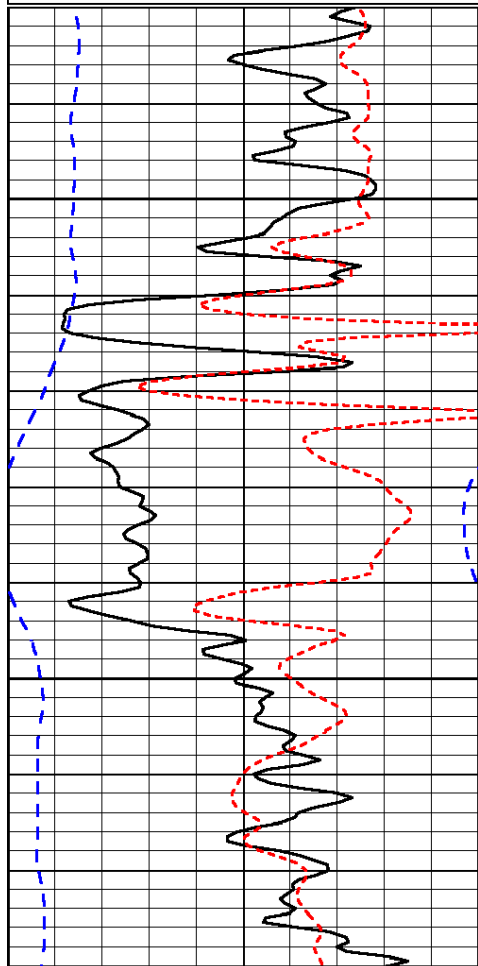








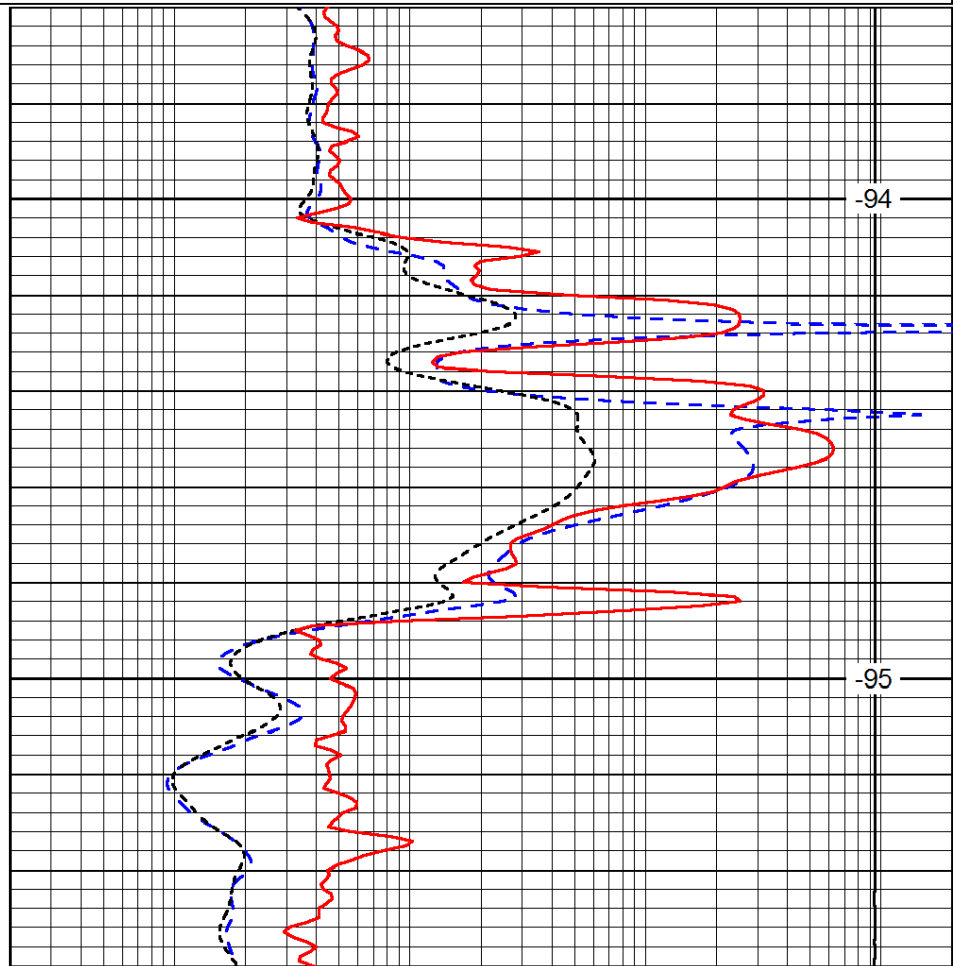
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Presentation Format:		dil	
Dataset Creation:		Tue Dec 10 05:59:06 2013	
Charted by:		Depth in Feet scaled 1:240	
0	Gamma Ray	150	
-200	SP (mV)	0	
-160	RxoRt	40	
0.2	Deep Resistivity	2000	
0.2	Medium Resistivity	2000	
0.2	Shallow Resistivity	2000	
15000	Line Tension	0	
			LSPD



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

1450

1500



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

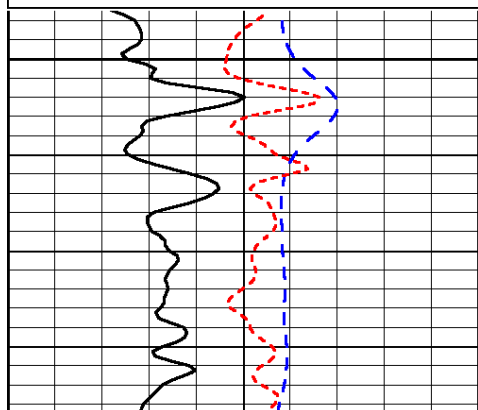
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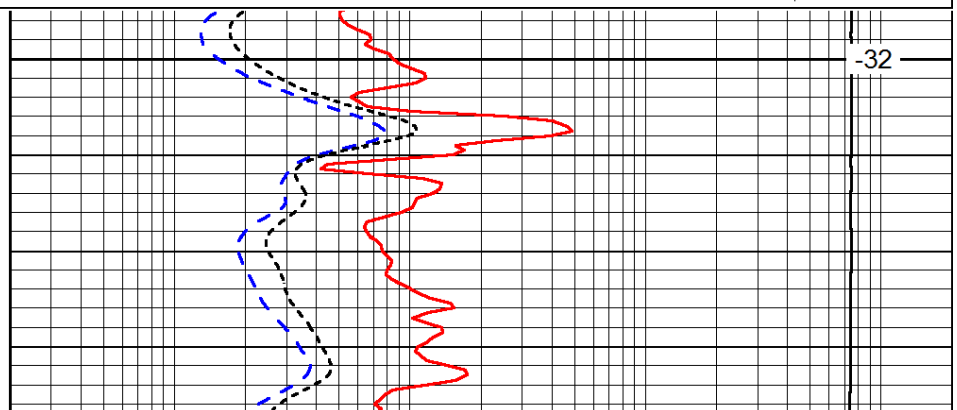
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

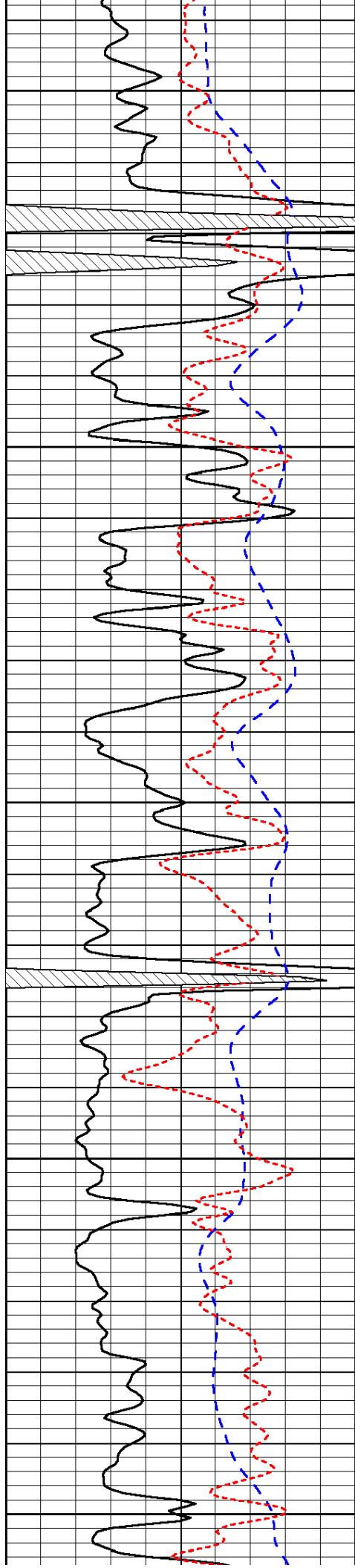
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3600



-32



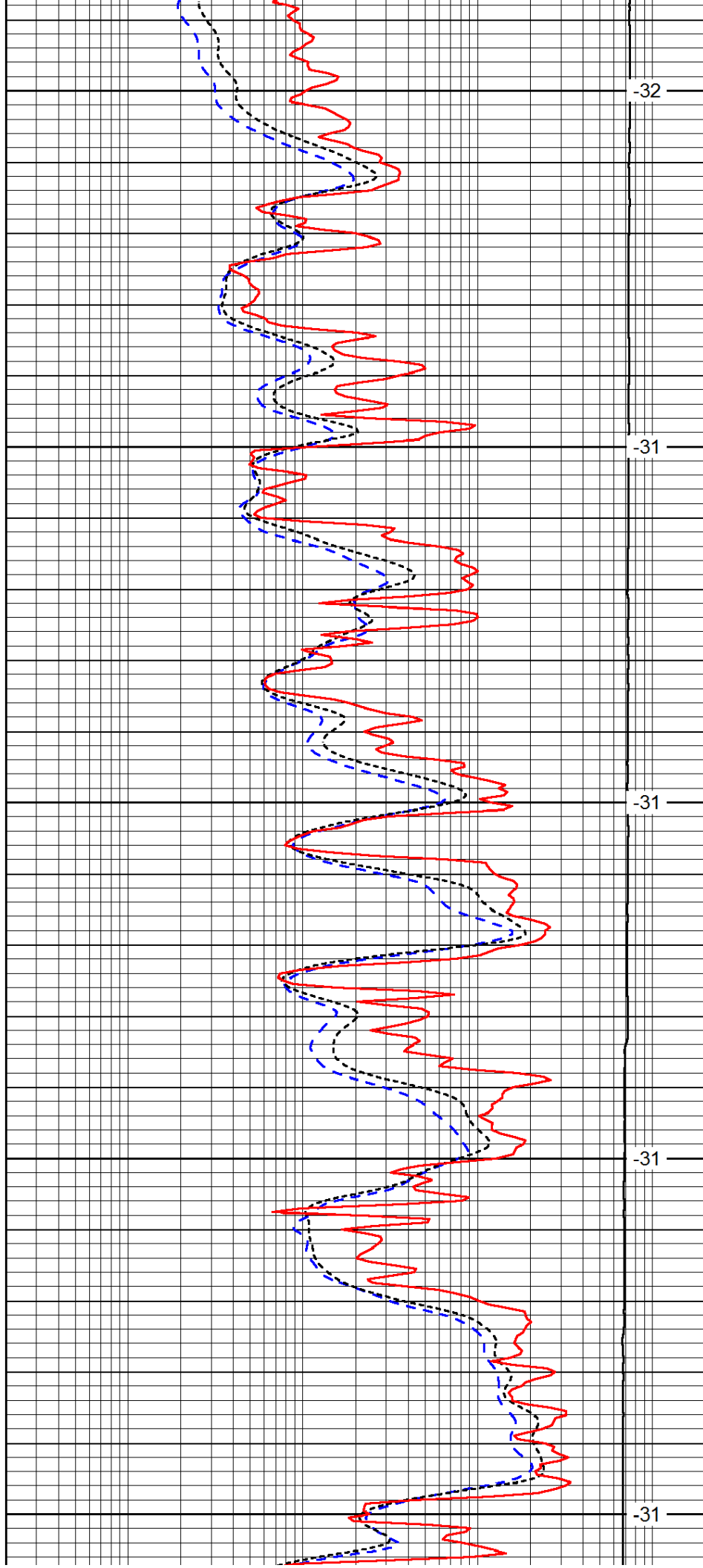
3650

3700

3750

3800

3850



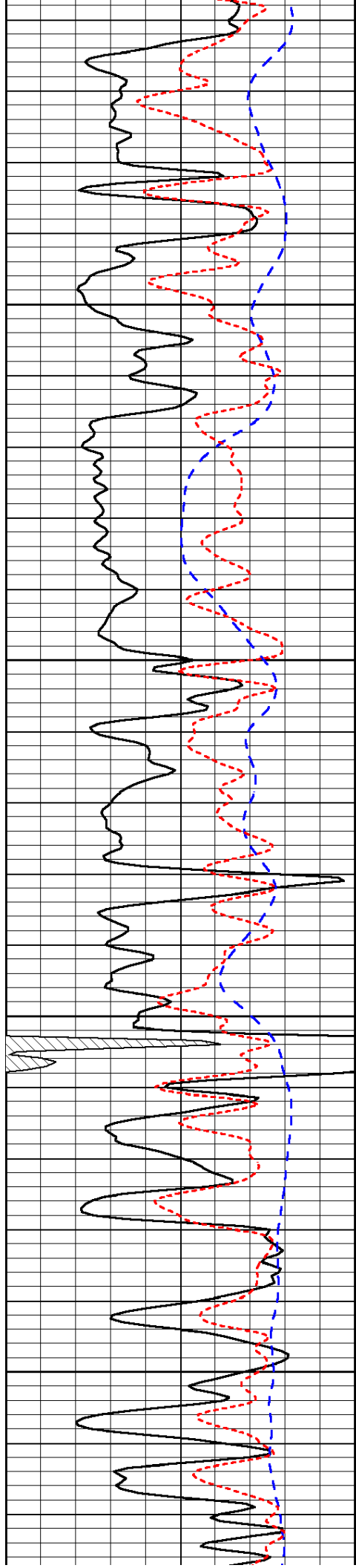
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-31

-31

-31

-31

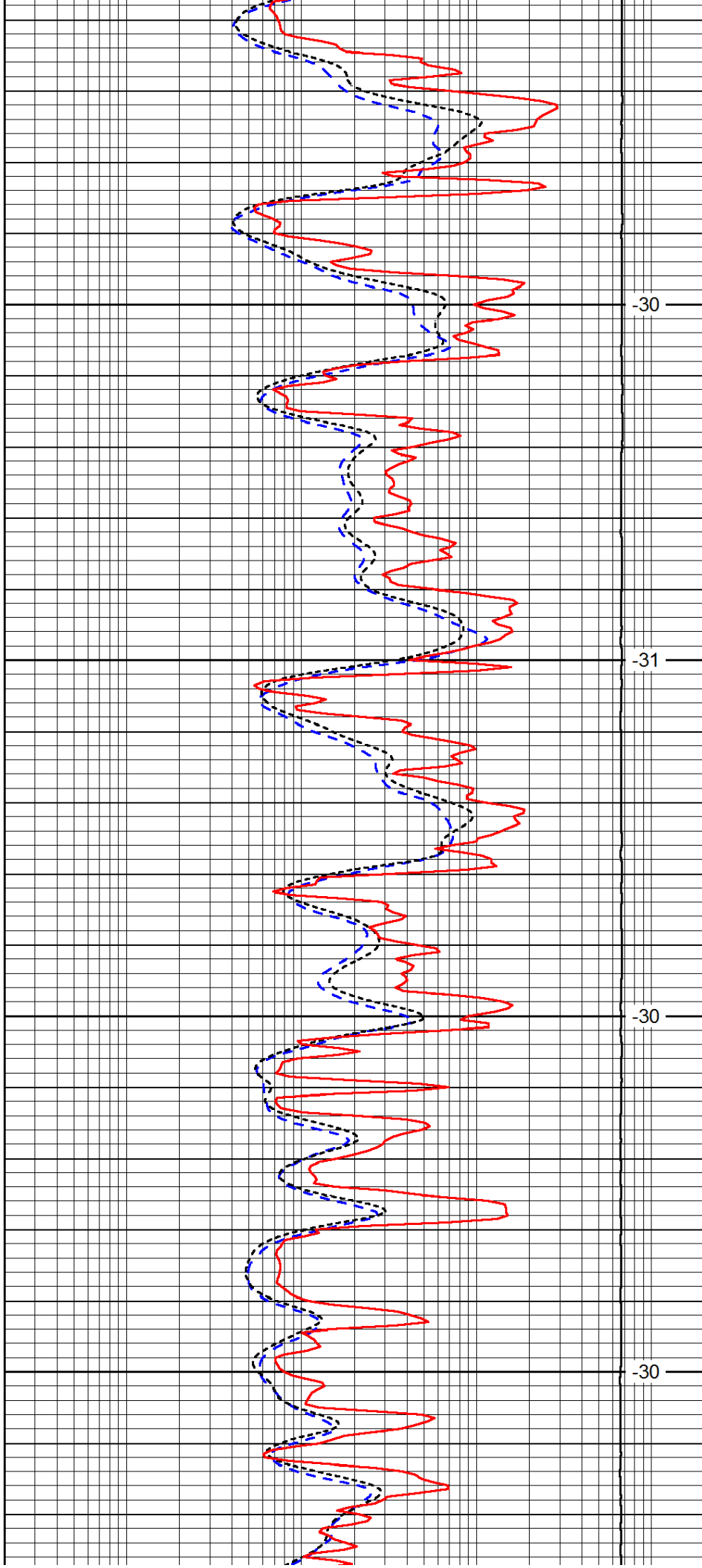


3900

3950

4000

4050

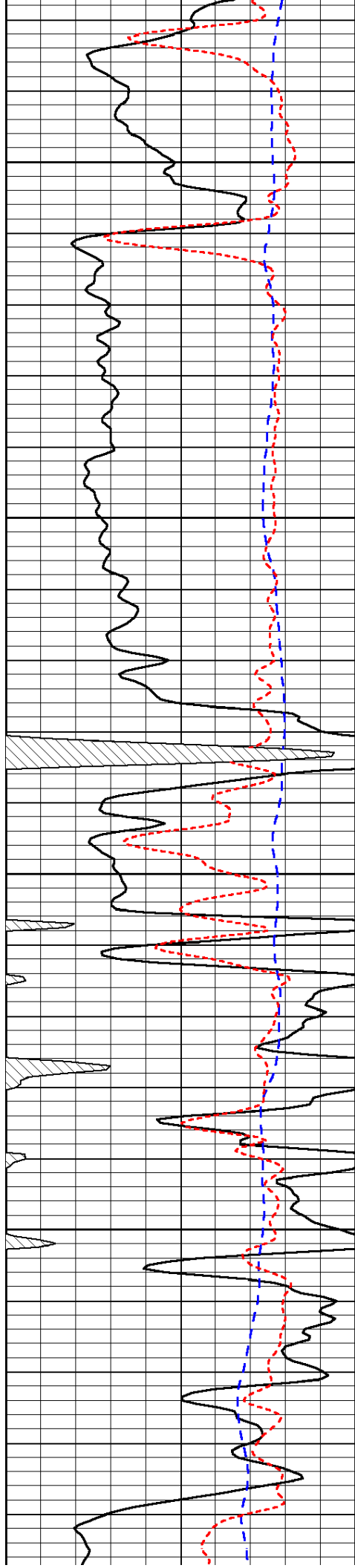


-30

-31

-30

-30

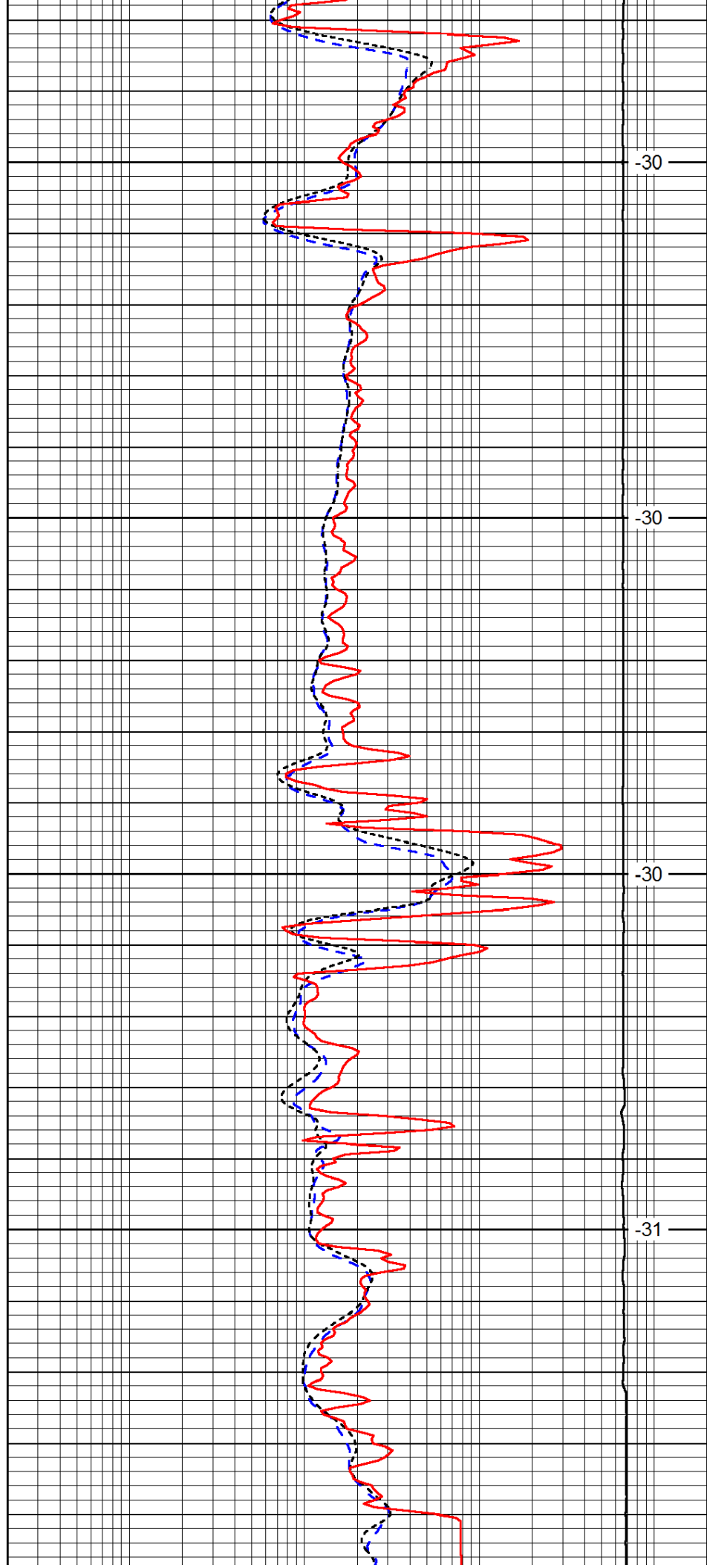


4100

4150

4200

4250

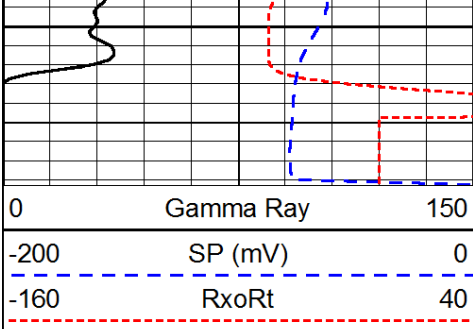


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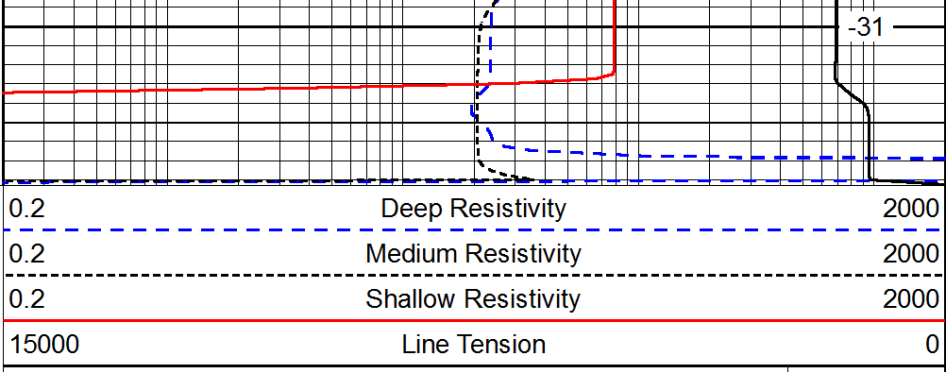
-30

-30

-31



4300



-31

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

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

LSPD