



Dual Induction Log

Pioneer Energy Services

API No.	Company RJM Company			
	Well Concept Commercial #1			
	Field Trapp			
	County Russell State Kansas			
	Location	1650' FNL & 330' FEL		Other Services CNL/CDL MEL/BHCS
	Sec: 15	Twp: 15S	Rge: 13W	Elevation
Permanent Datum	Ground Level			K.B. 1840
Log Measured From	Kelly Bushing	8	Ft. Above Perm. Datum	D.F. 1832
Drilling Measured From	Kelly Bushing			G.L. 1832
Date	1/9/2014			
Run Number	One			
Depth Driller	3350			
Depth Logger	3347			
Bottom Logged Interval	3346			
Top Log Interval	350			
Casing Driller	8.625 @ 404			
Casing Logger	392			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	5000			
Density / Viscosity	9.5 55			
pH / Fluid Loss	9.0 7.2			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.67 @ 60			
Rmf @ Meas. Temp	0.50 @ 60			
Rmc @ Meas. Temp	0.90 @ 60			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.37 @ 110			
Operating Rig Time	4 1/2 Hours			
Max Rec. Temp. F	110			
Equipment Number	15			
Location	Hays			
Recorded By	D. Kerr			
Witnessed By	Clint Musgrove			

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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

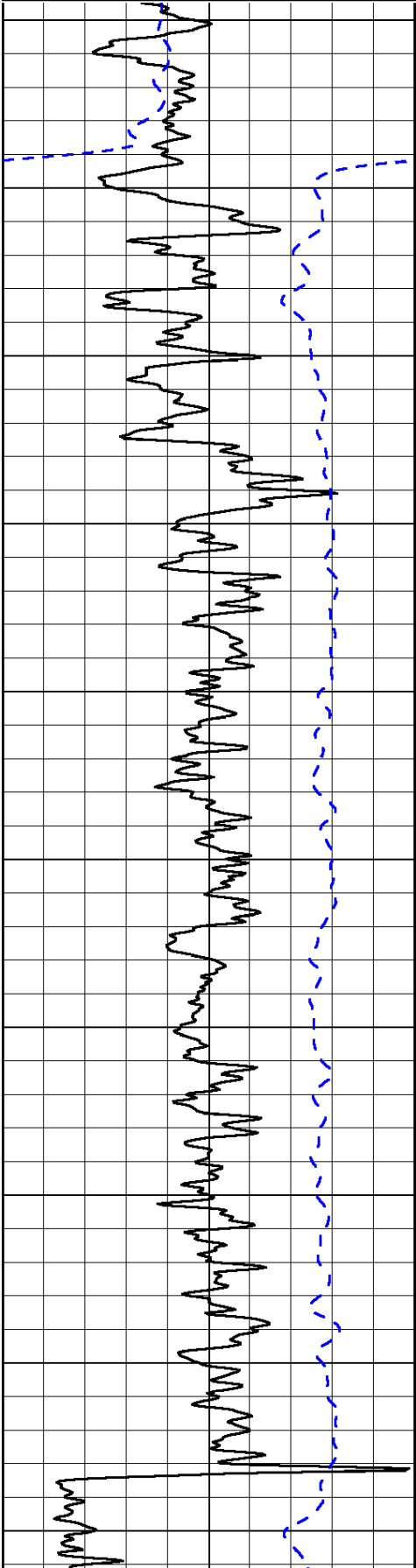
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Russell KS, 8 South to Winterset RD,
5 1/2 East, 1/2 North, West Into

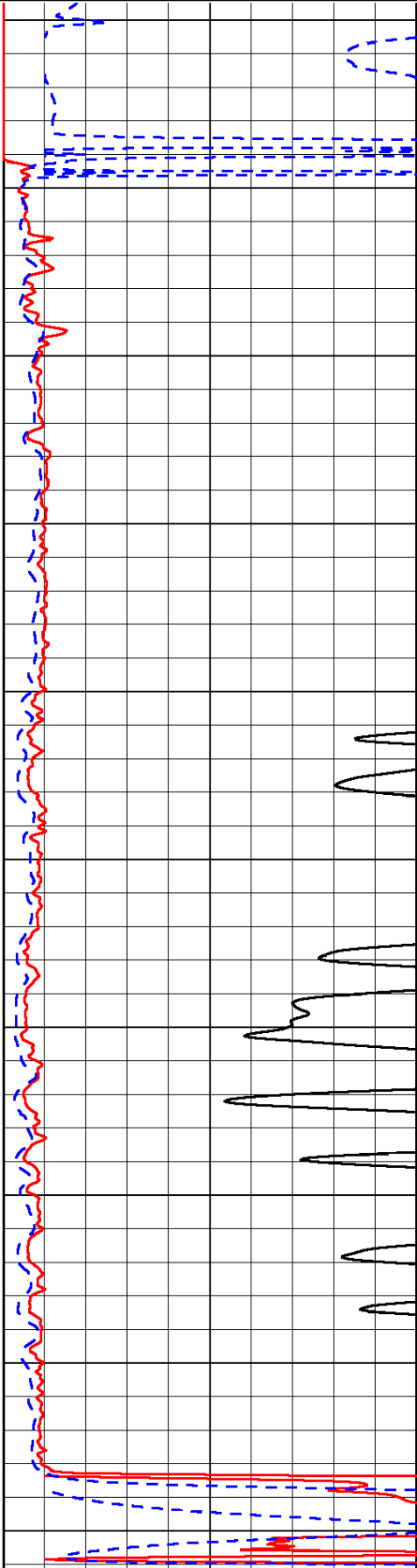
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Dataset Creation: Thu Jan 09 20:09:10 2014
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:6000

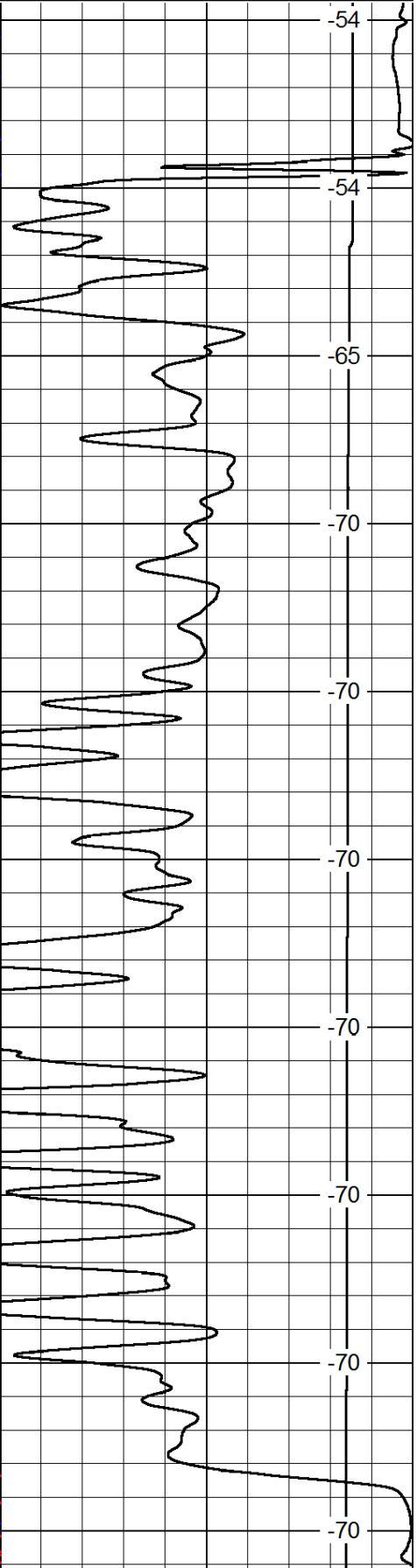
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-200	SP (mV)	0

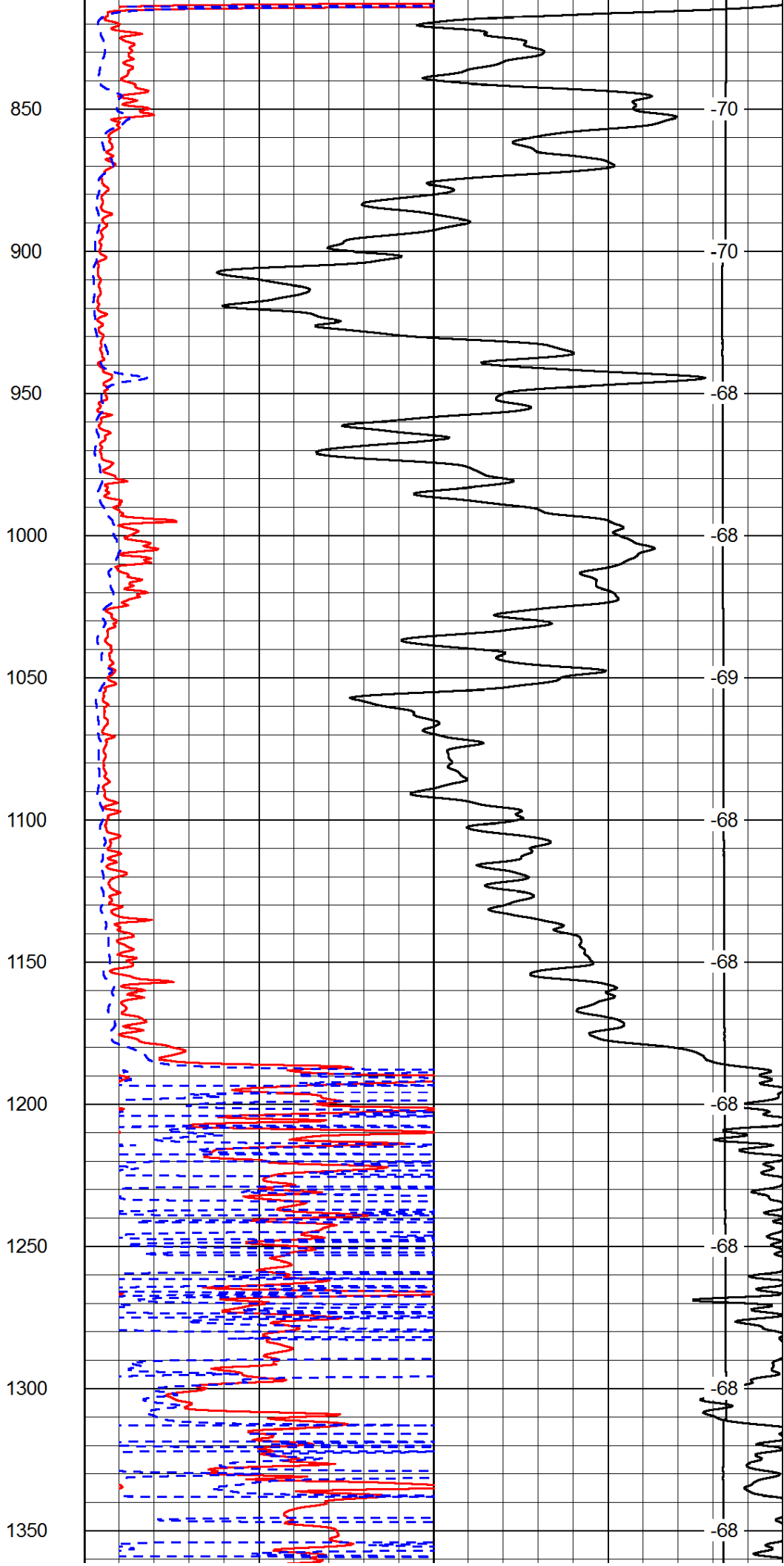
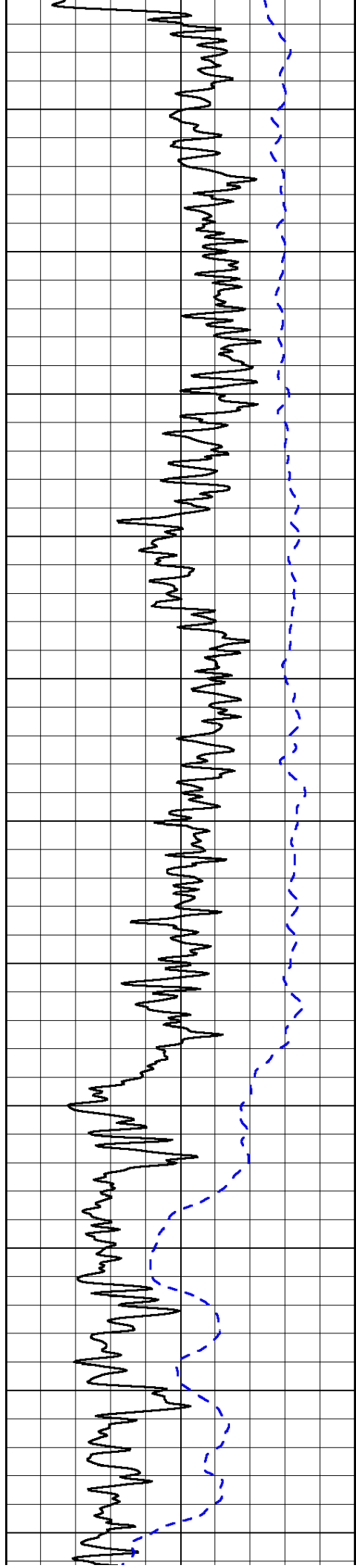


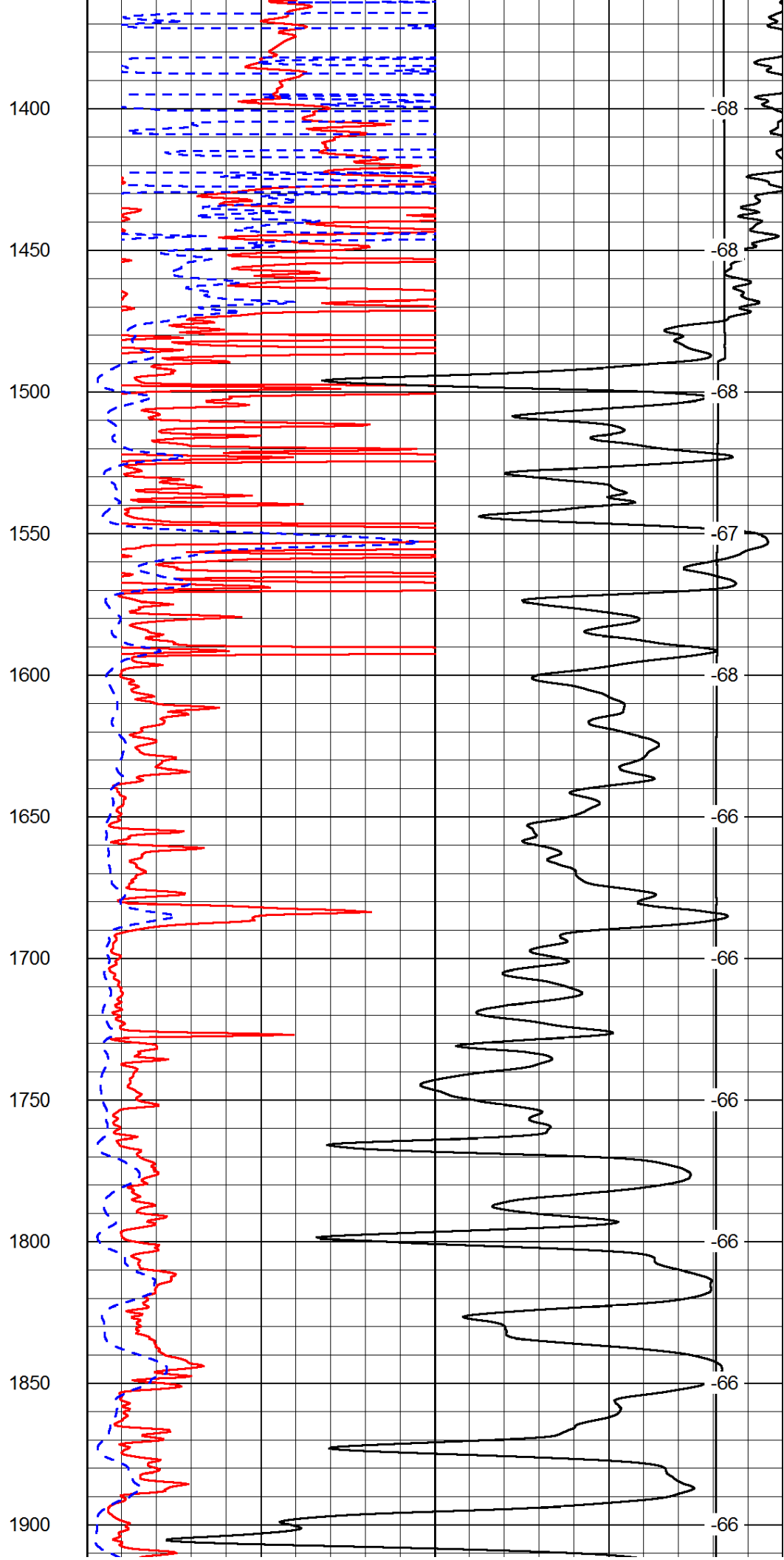
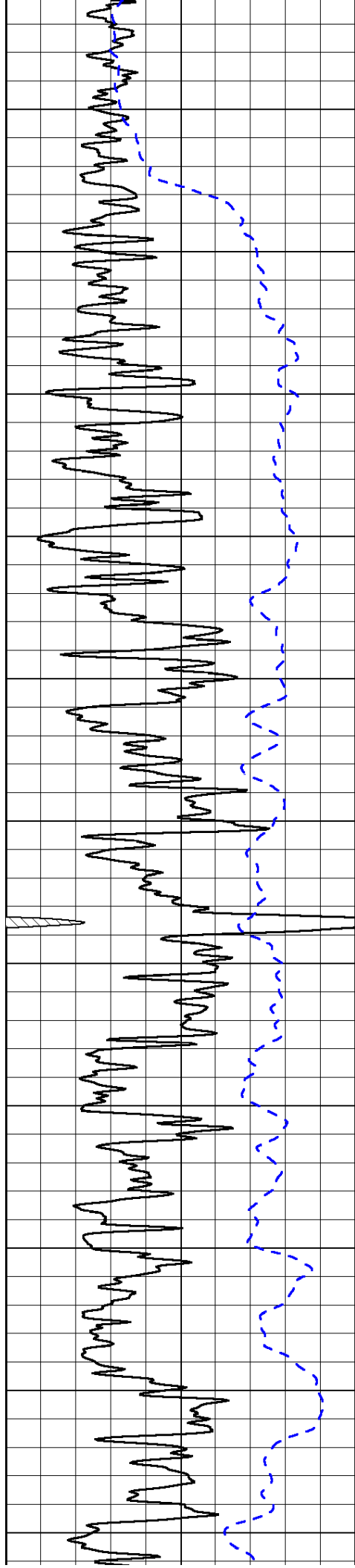
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

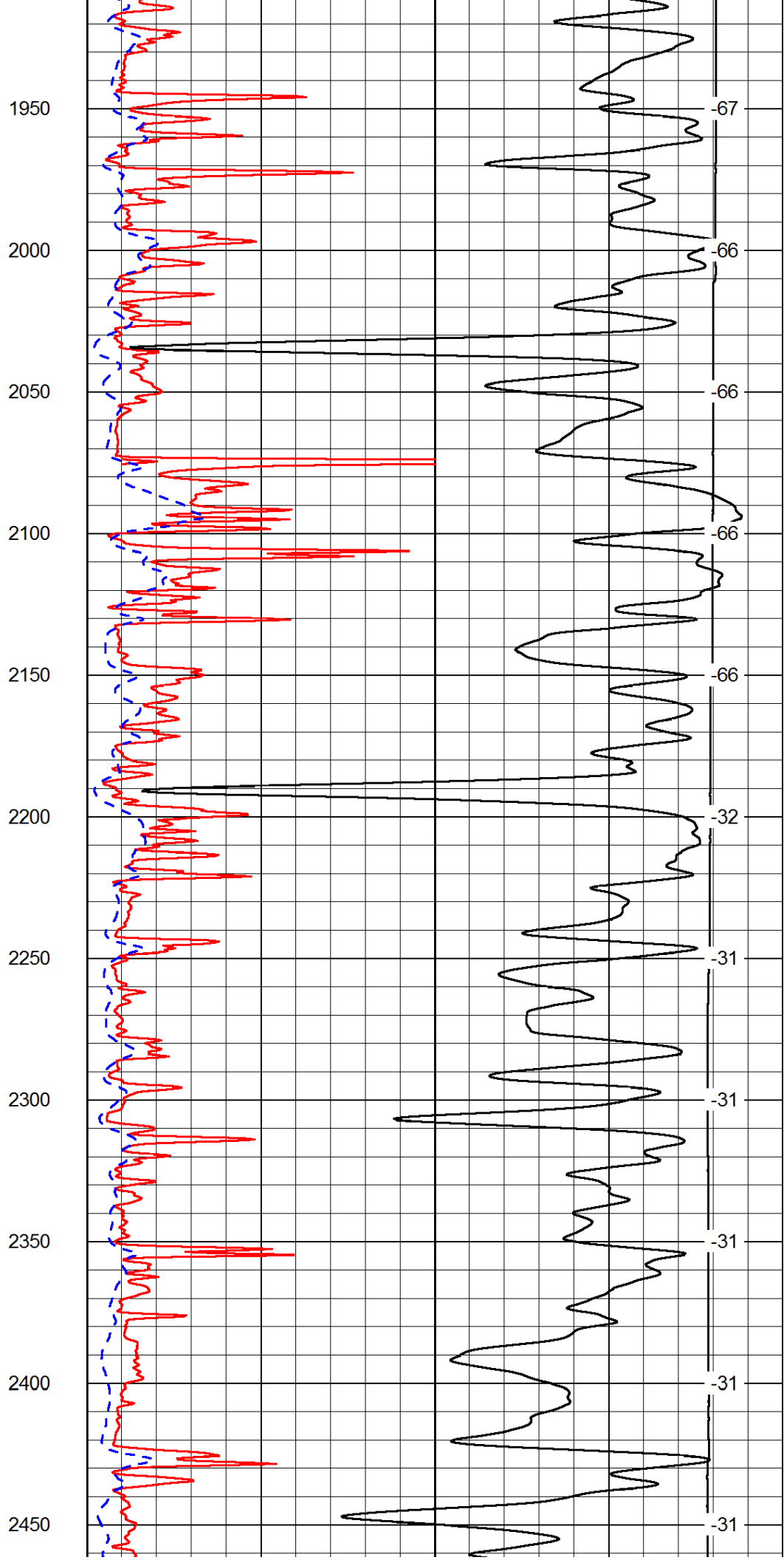
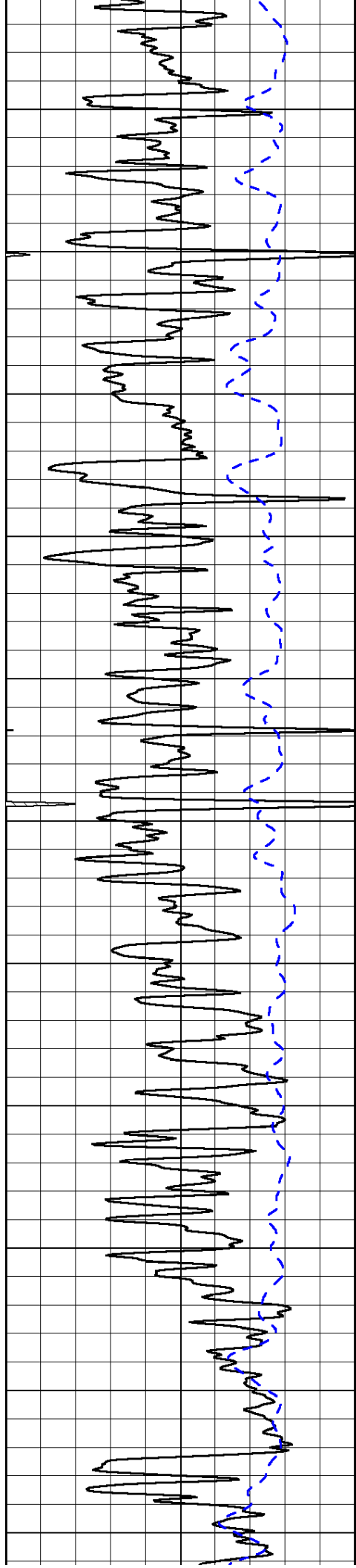


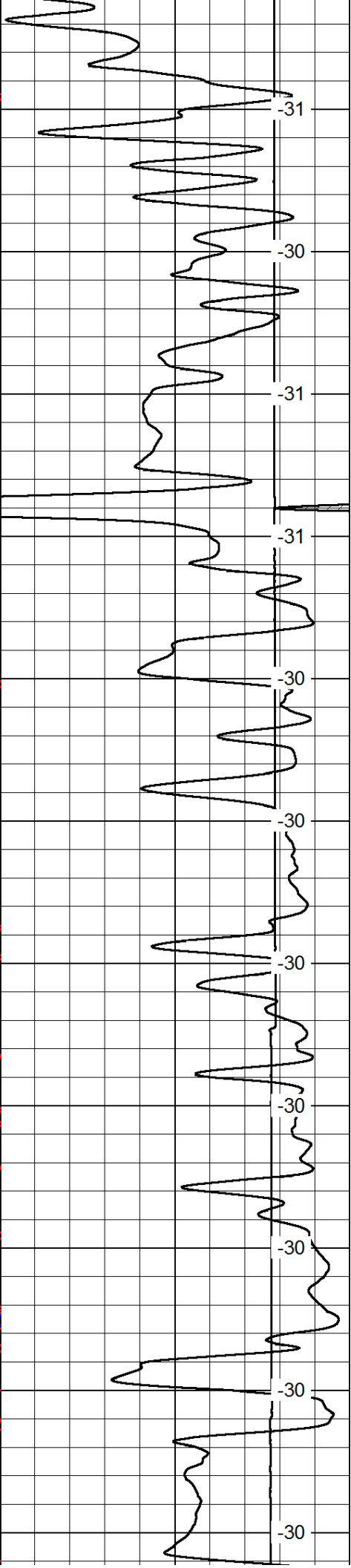
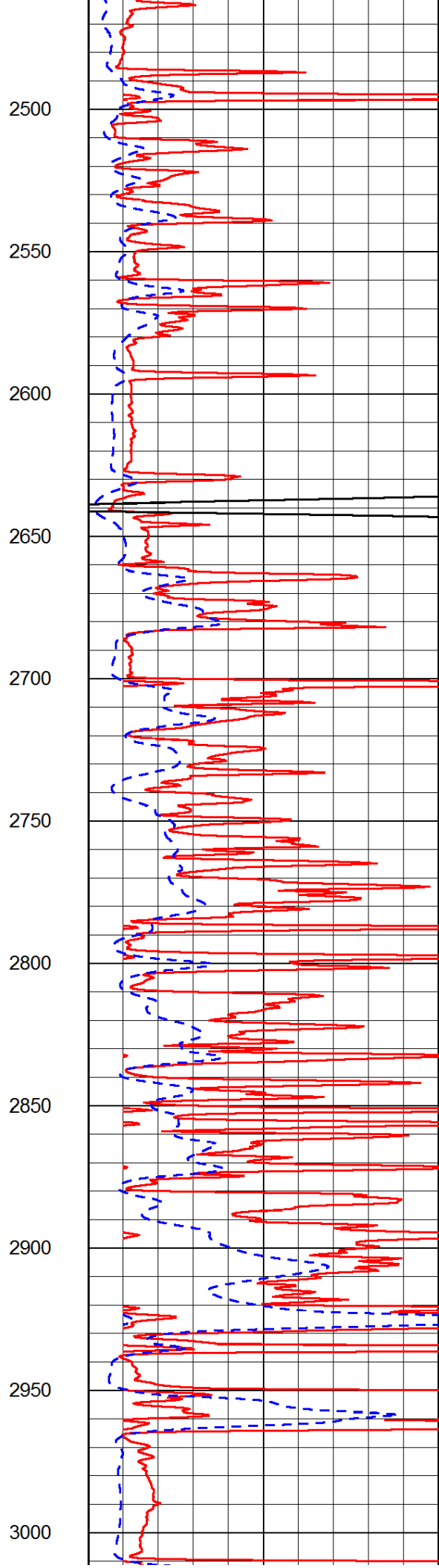
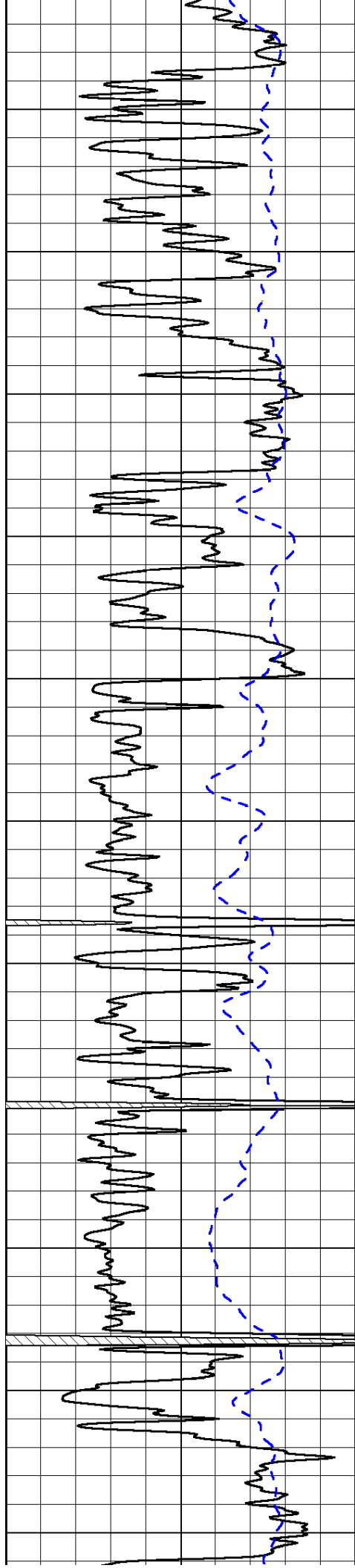
LSPD	0
Conductivity	0
Line Tension	0

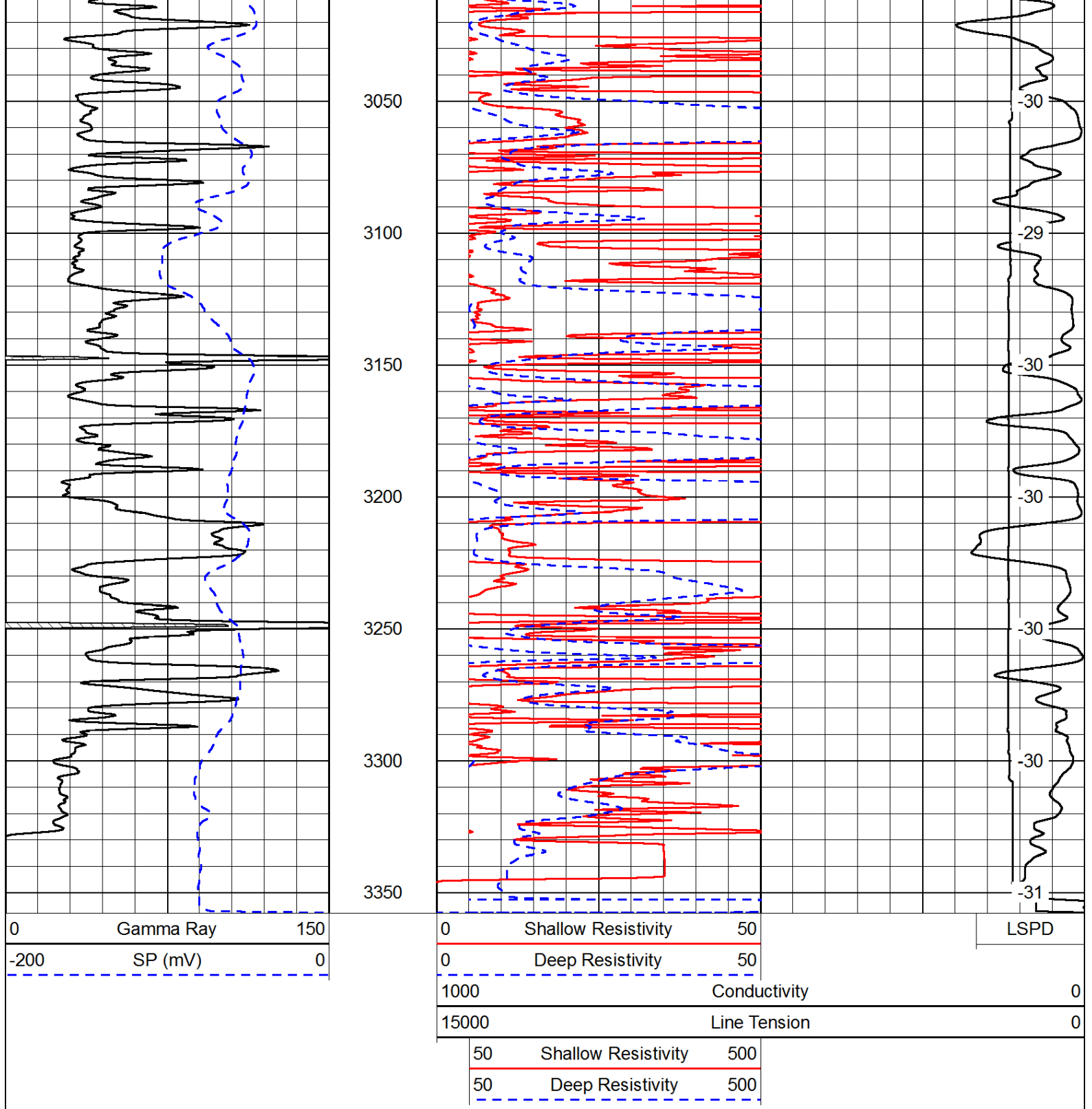






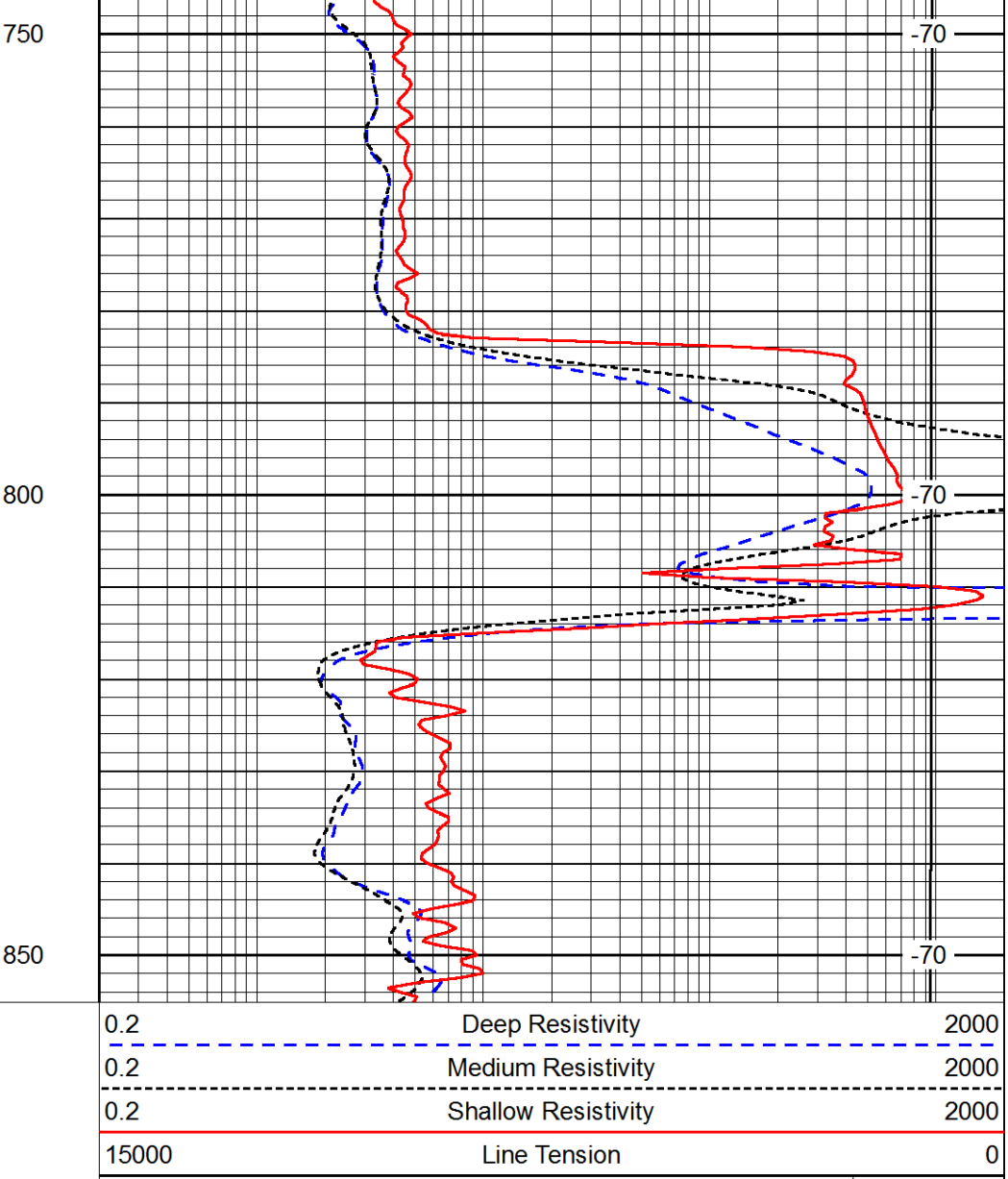
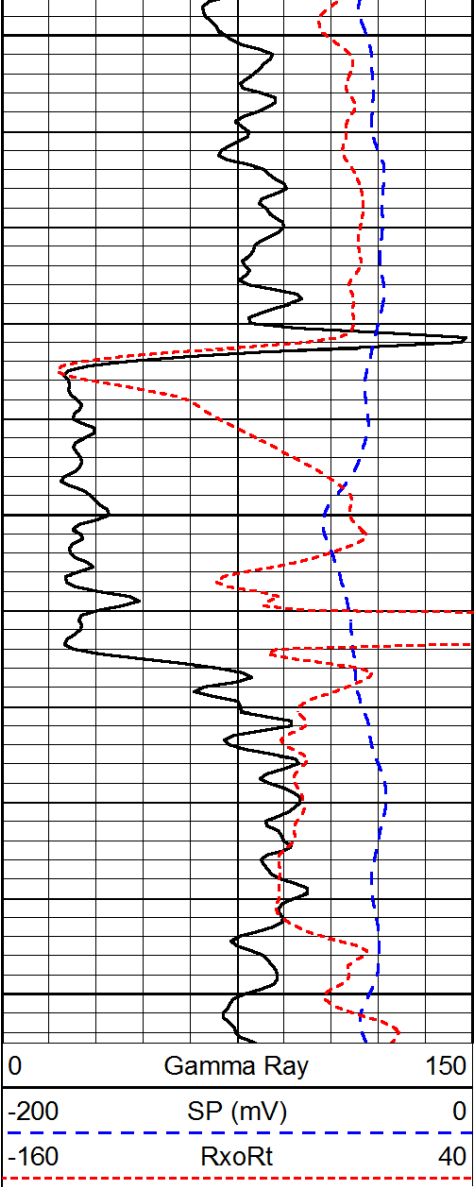






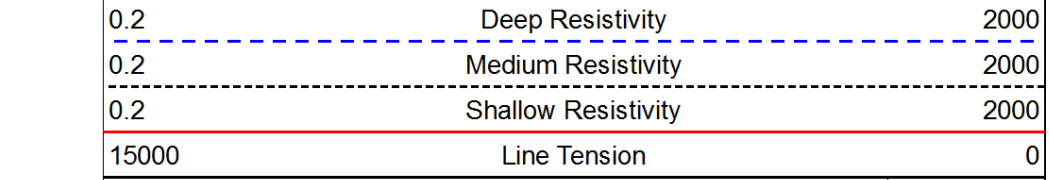
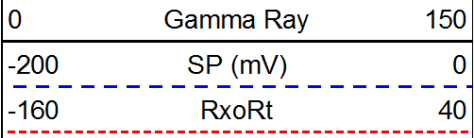
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Dataset Pathname: DIL\rjmstk
Presentation Format: dil
Dataset Creation: Thu Jan 09 20:09:10 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
				LSPD	

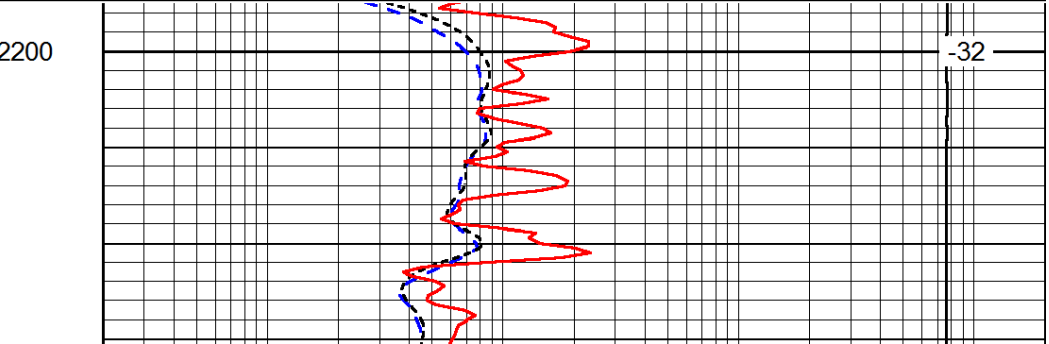
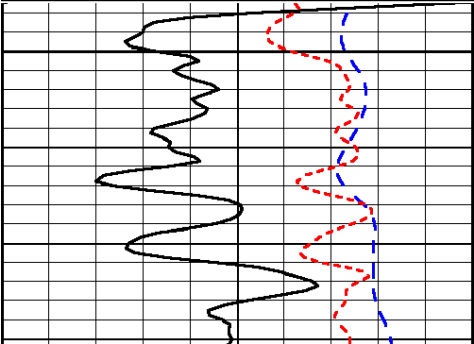


LSPD

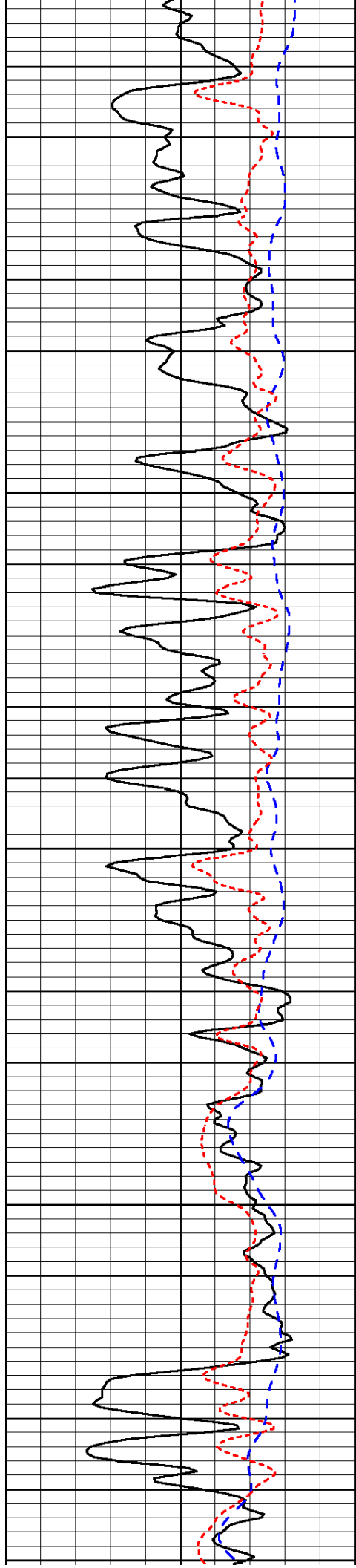
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LSPD



-32



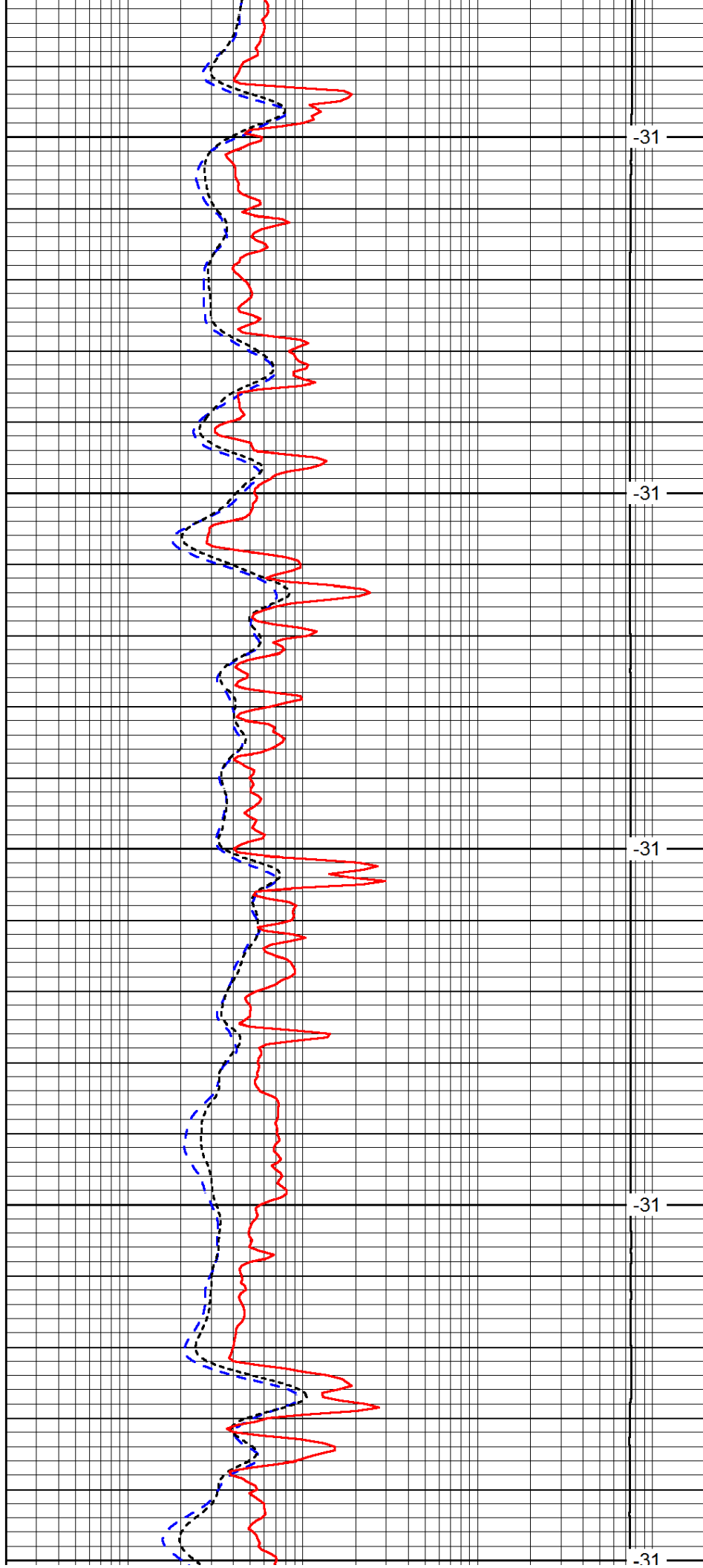
2250

2300

2350

2400

2450



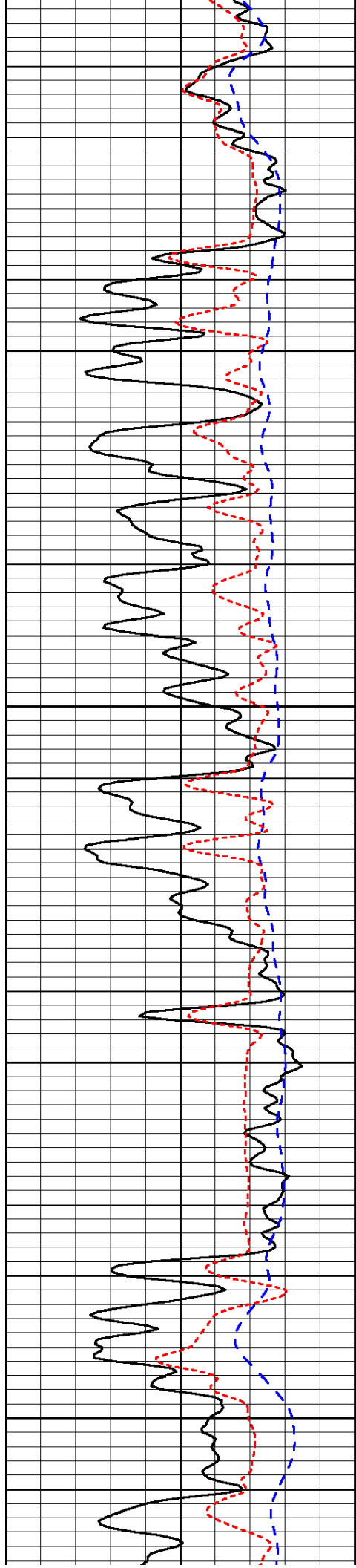
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-31

-31

-31

-31



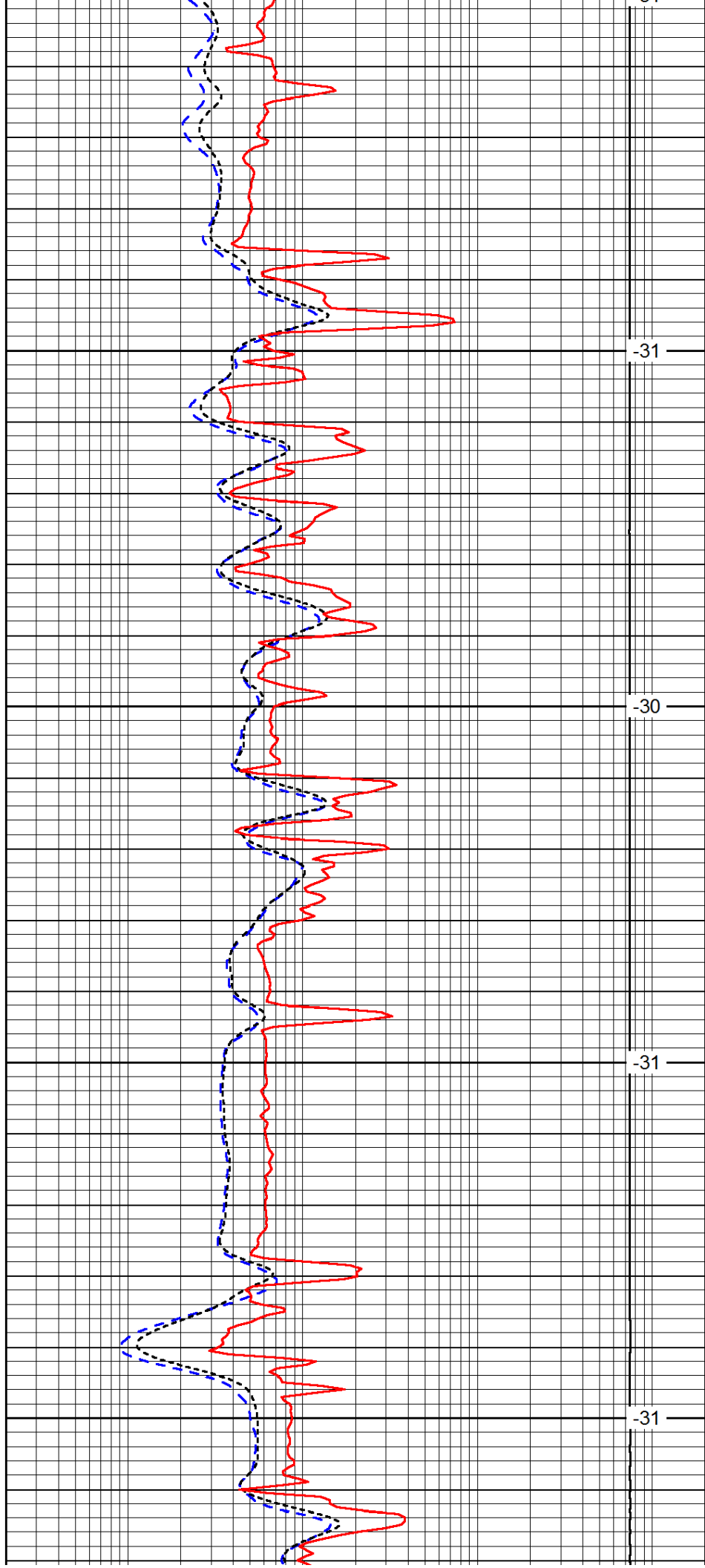
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2500

2550

2600

2650

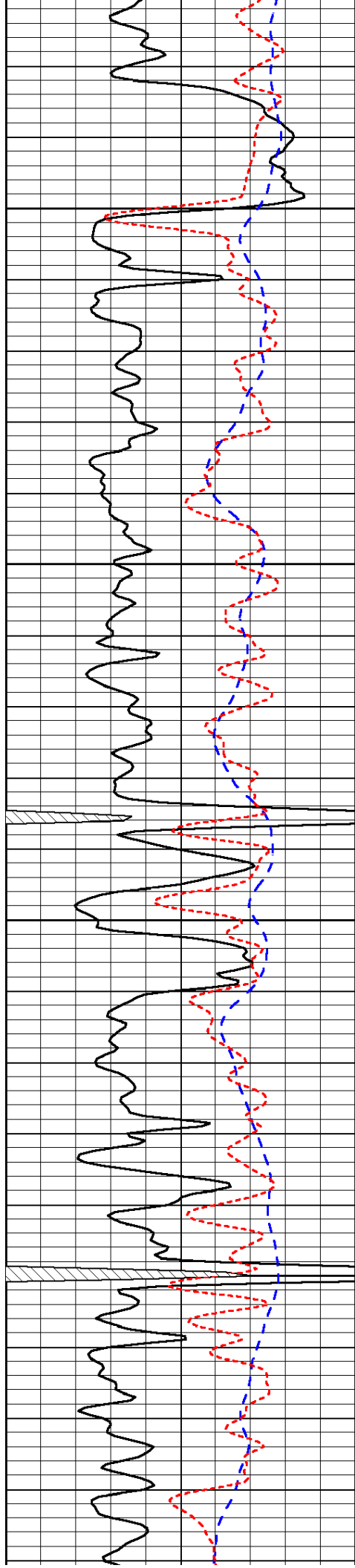


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-30

-31

-31

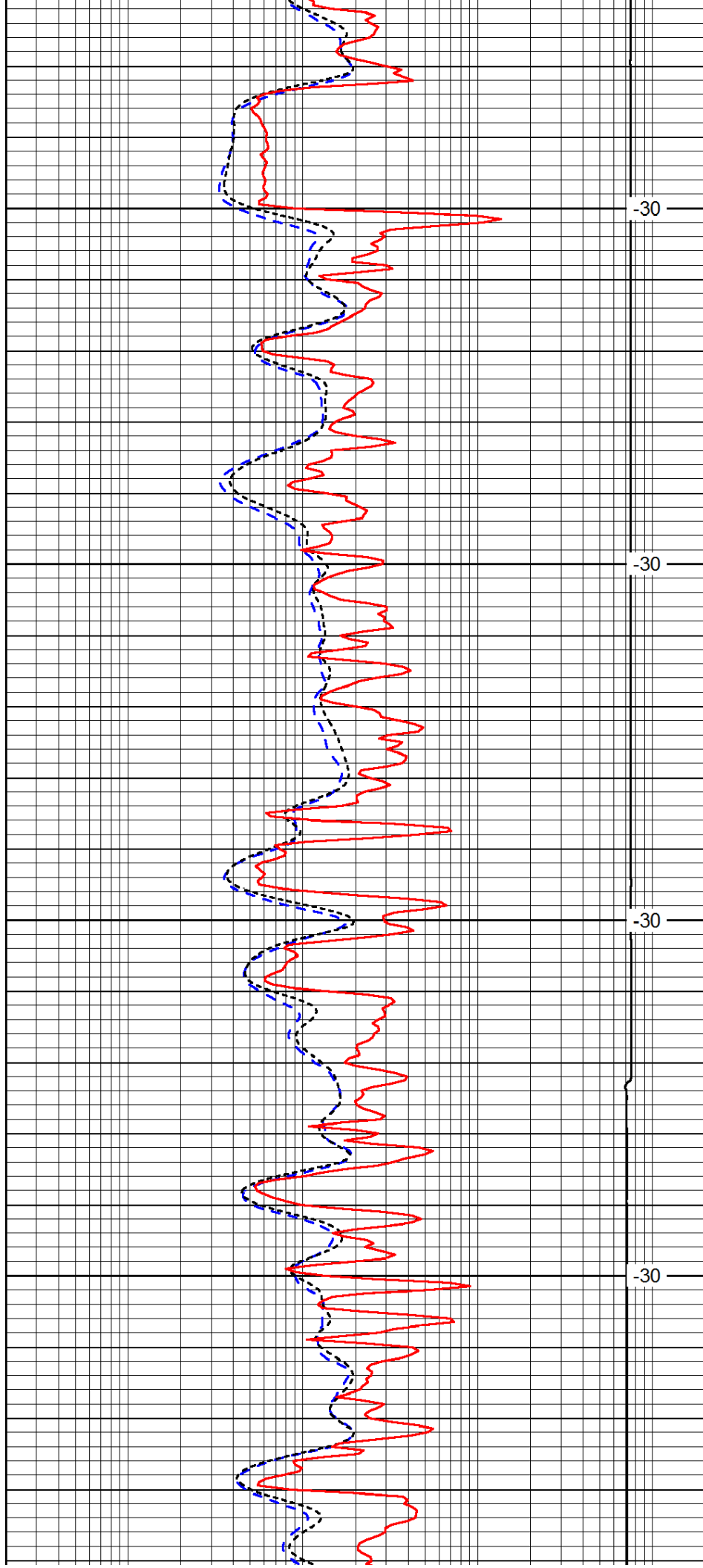


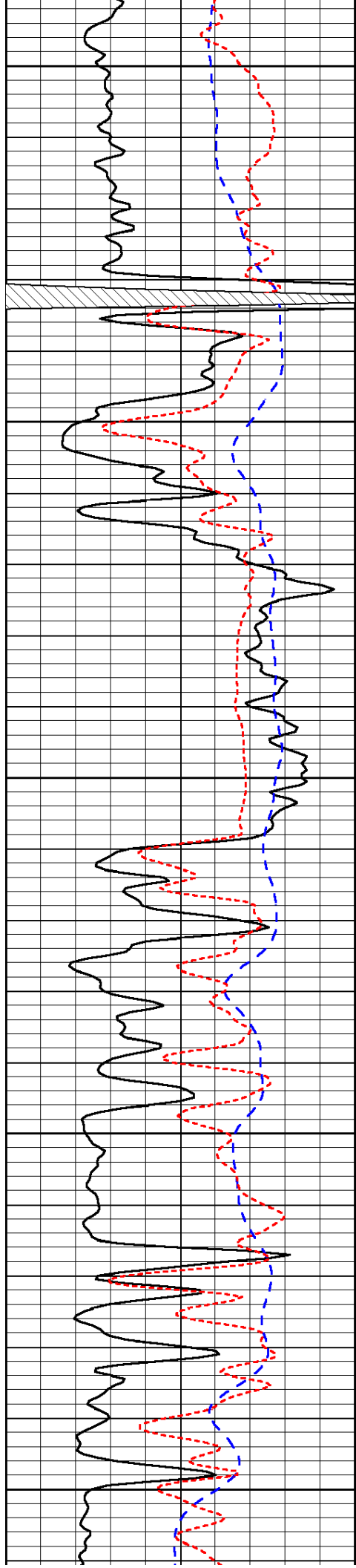
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2750

2800

2850





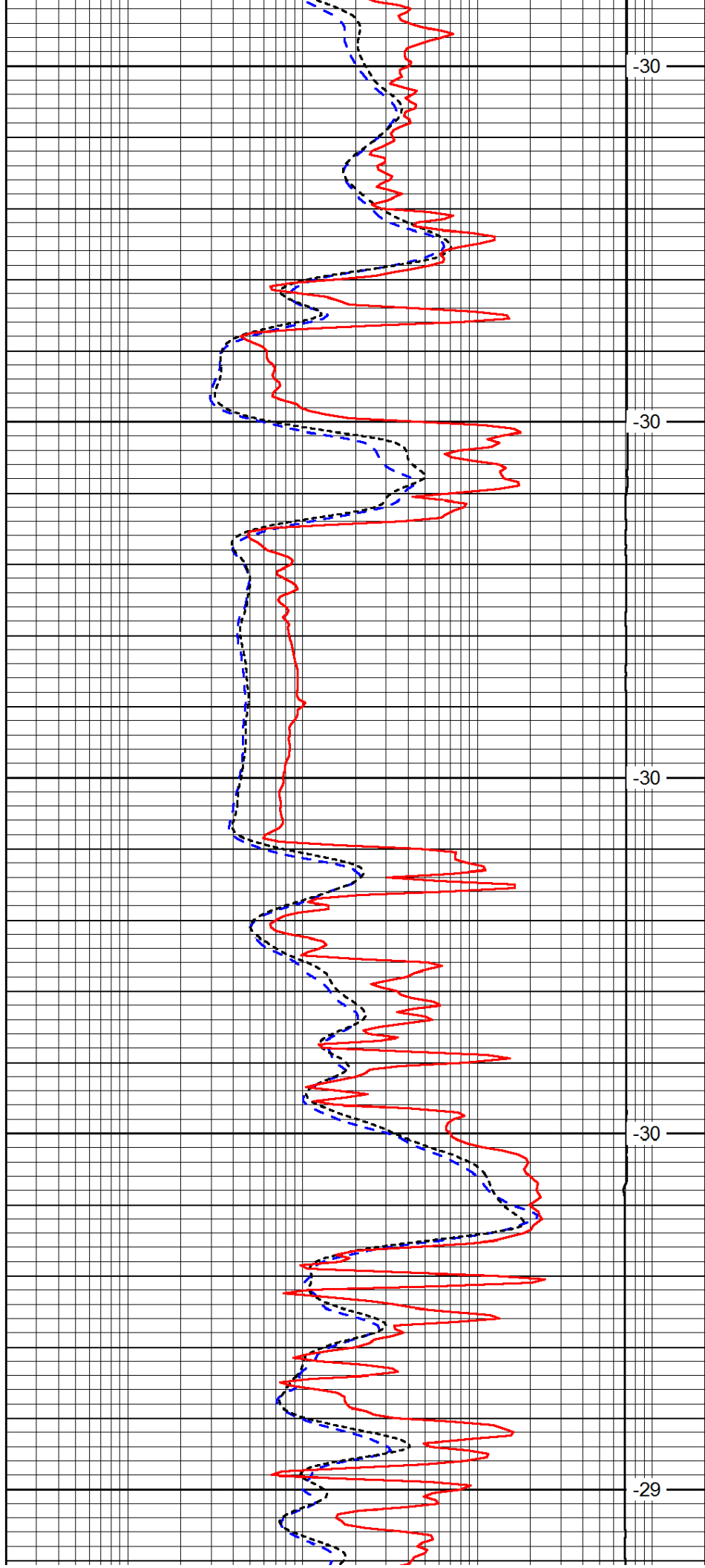
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2950

3000

3050

3100



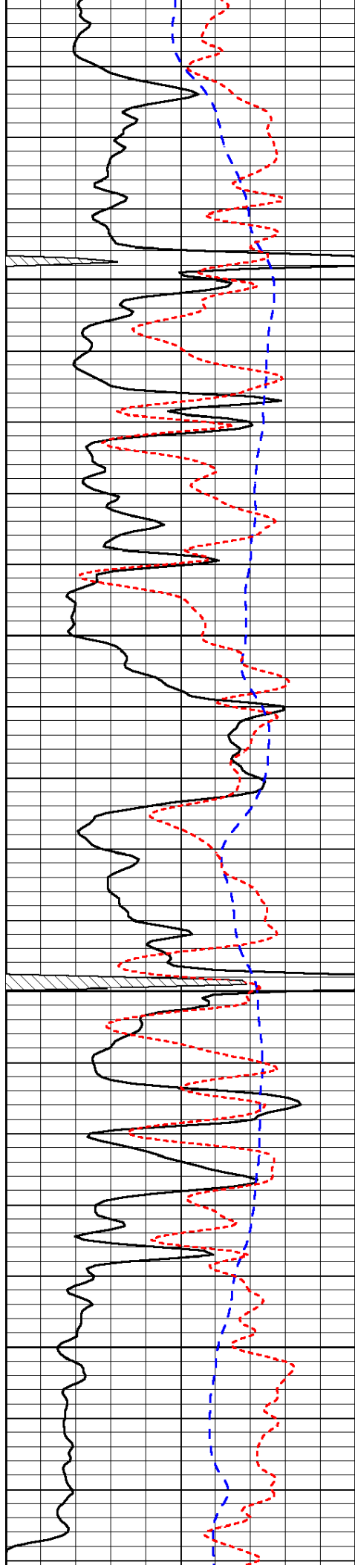
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-30

-30

-29

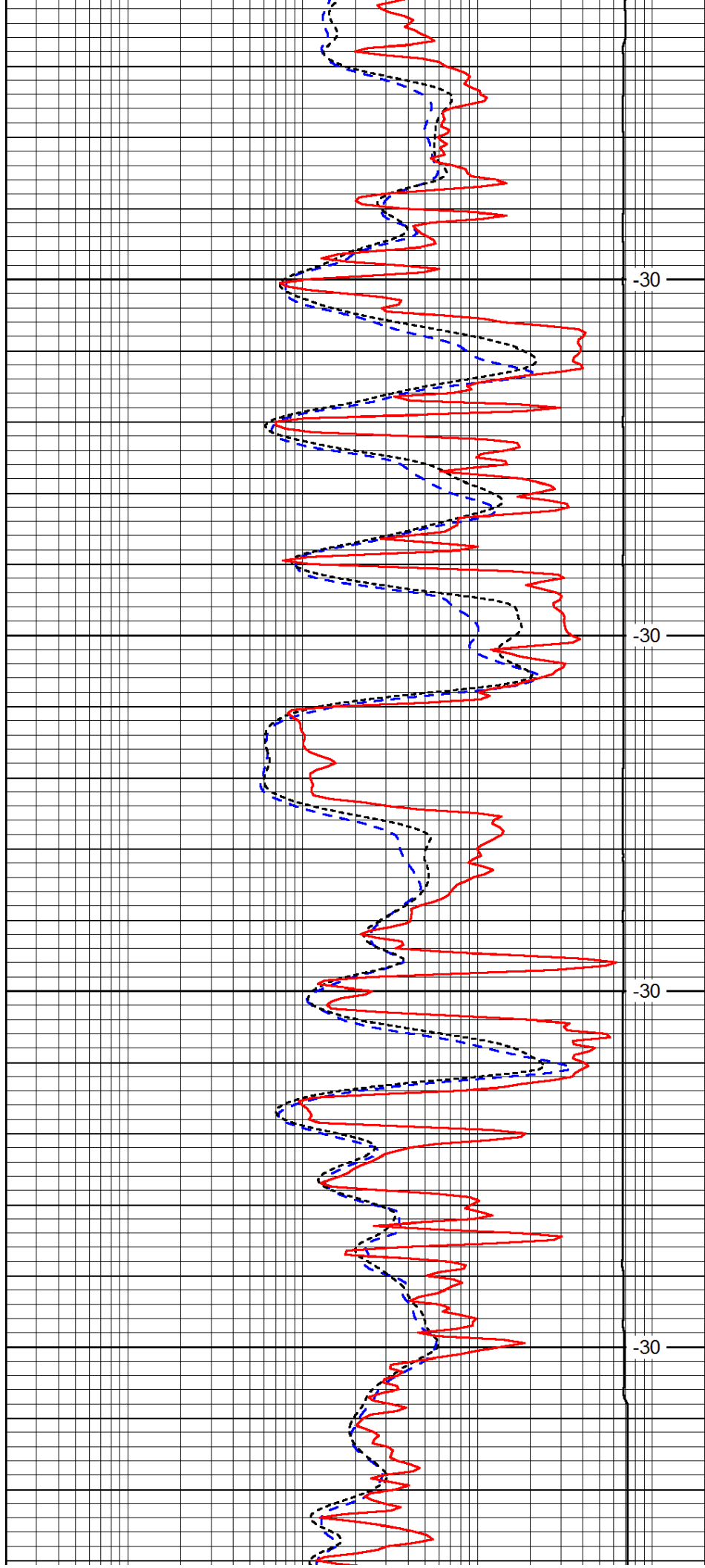


3150

3200

3250

3300

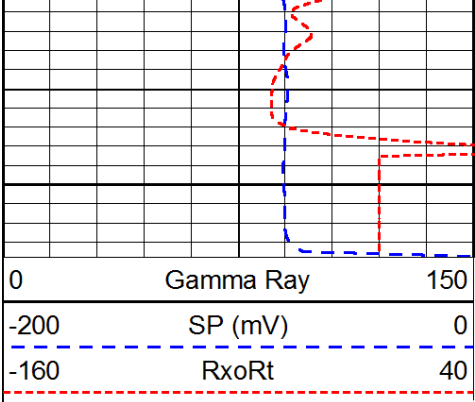


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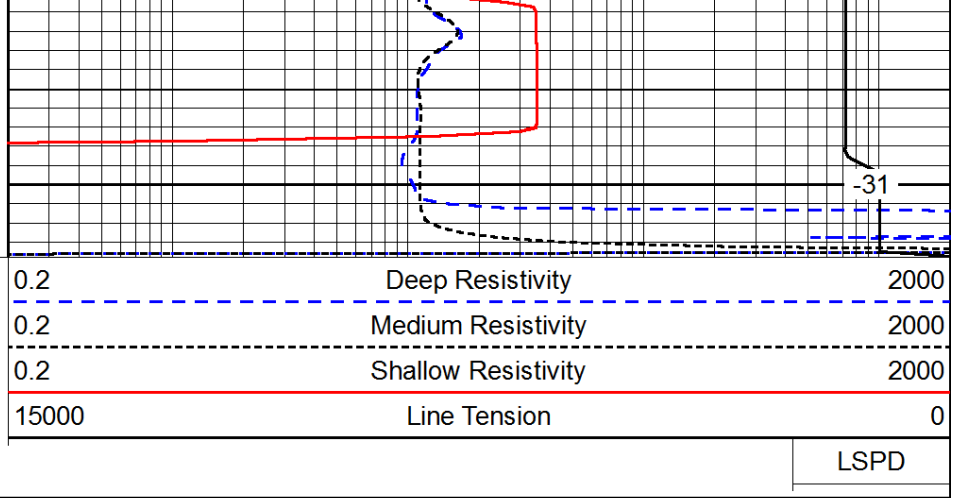
-30

-30

-30



3350



LSPD