



Dual Induction Log

Pioneer Energy Services

API No.	Company Larson Engineering, Inc.		
	Well Geneva #1-28		
	Field Wildcat		
	County Lane	State	Kansas
	Location	S/2 SE NE NW 1103' FNL & 2310' FWL	
	Sec: 28	Twp: 18S	Rge: 28W
	Permanent Datum	Ground Level	Elevation 2700
	Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum
	Drilling Measured From	From Kelly Bushing	
Date		2/20/2014	
Run Number		One	
Depth Driller		4585	
Depth Logger		4580	
Bottom Logged Interval		4579	
Top Log Interval		250	
Casing Driller		8.625 @ 274	
Casing Logger		273	
Bit Size		7.875	
Type Fluid in Hole		Chemical	
Salinity, ppm CL		2800	
Density / Viscosity		9.3 65	
pH / Fluid Loss		9.5 8.8	
Source of Sample		Flowline	
Rm @ Meas. Temp		0.70 @ 63	
Rmf @ Meas. Temp		0.53 @ 63	
Rmc @ Meas. Temp		0.95 @ 63	
Source of Rmf / Rmc		Charts	
Rm @ BHT		0.36 @ 122	
Operating Rig Time		4 Hours	
Max Rec. Temp. F		122	
Equipment Number		15	
Location		Hays	
Recorded By		D. Kerr	
Witnessed By		Vern Schrag	

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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.

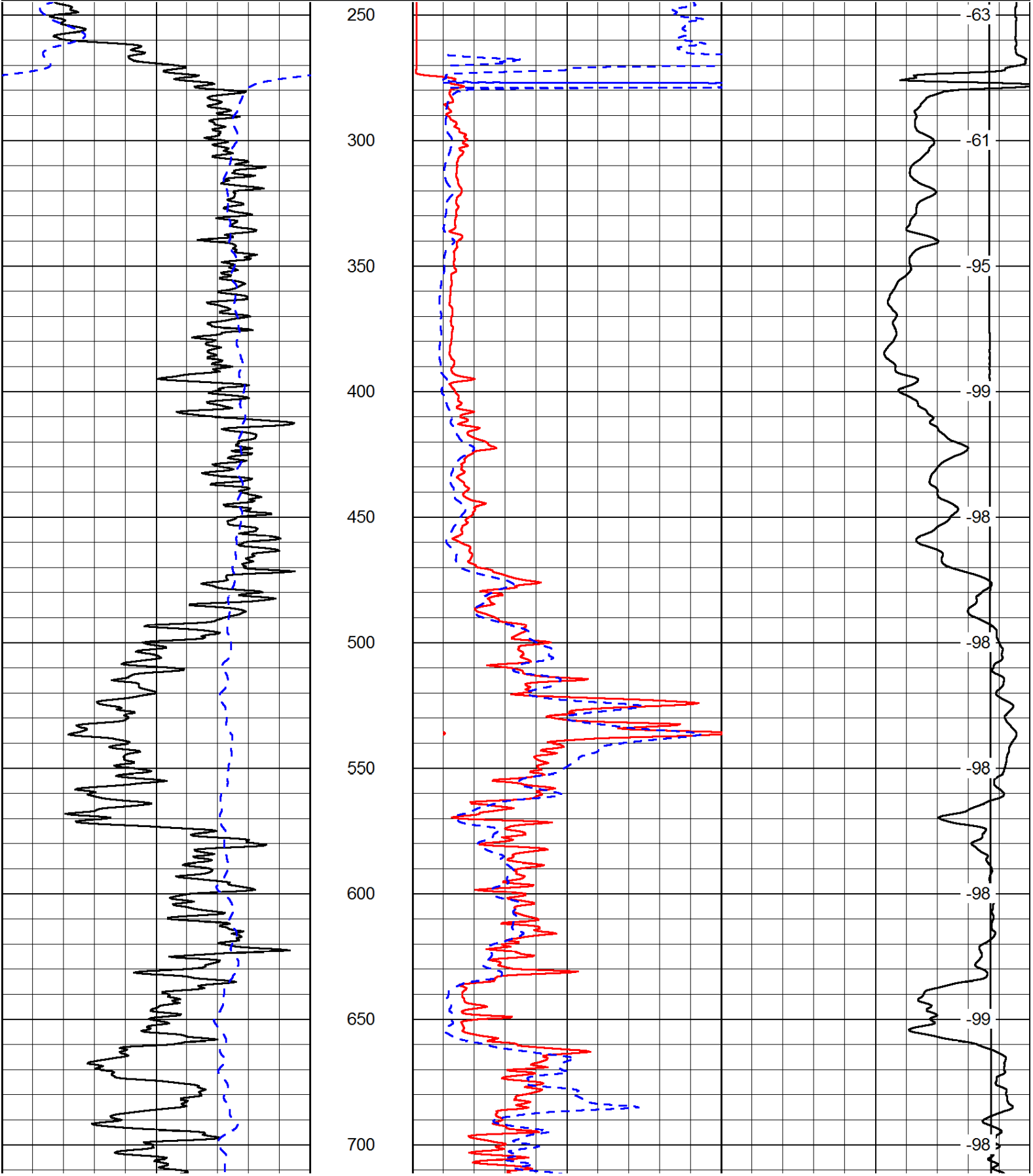
Comments

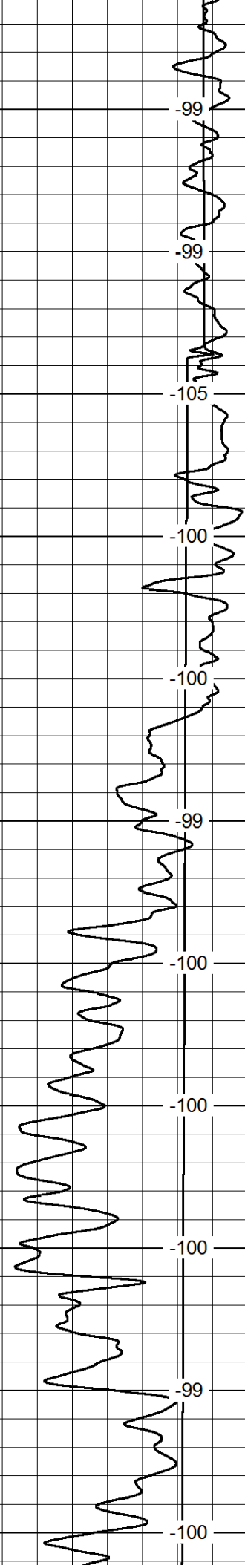
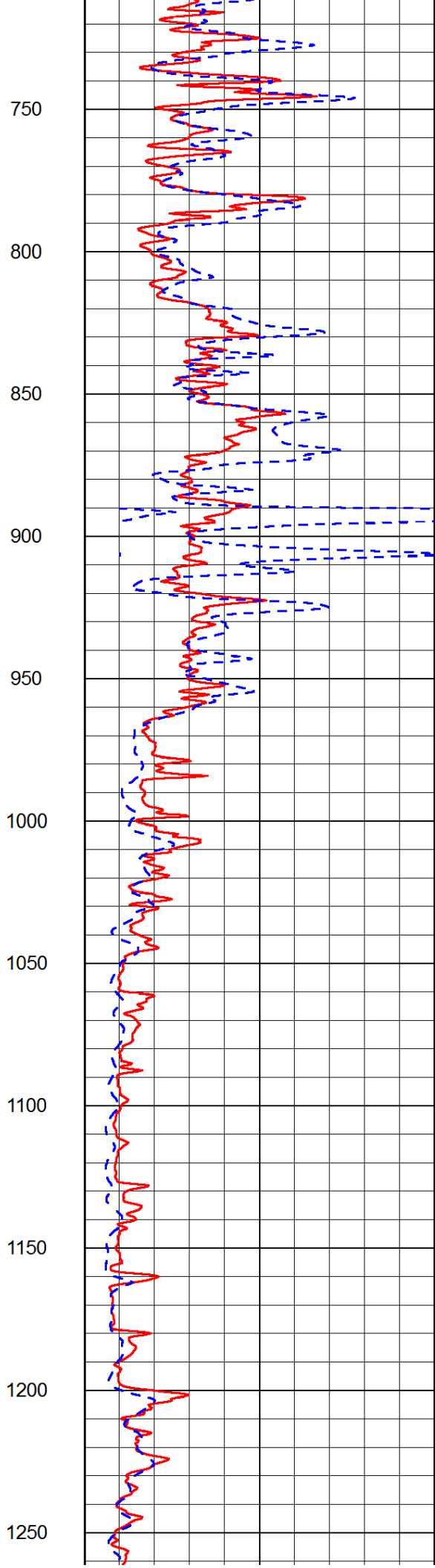
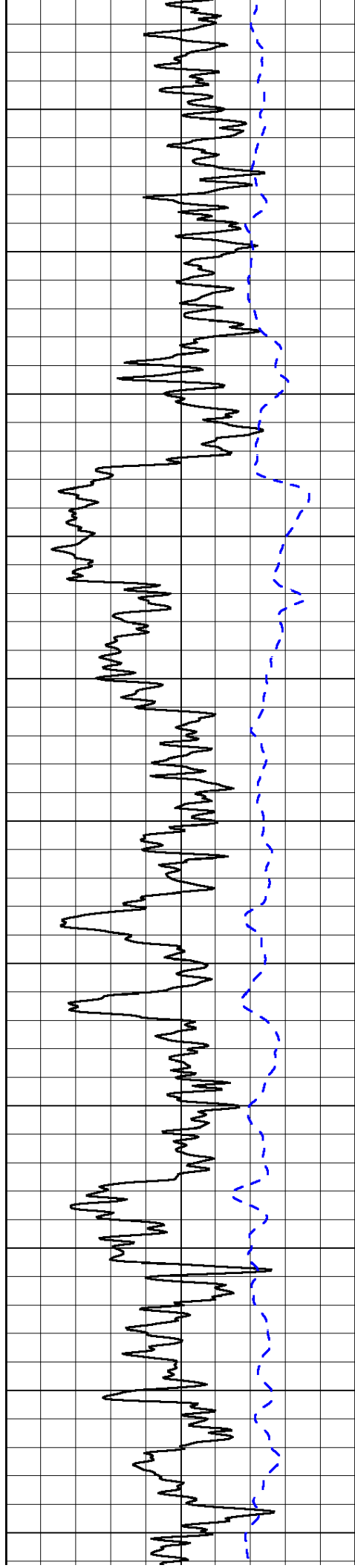
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

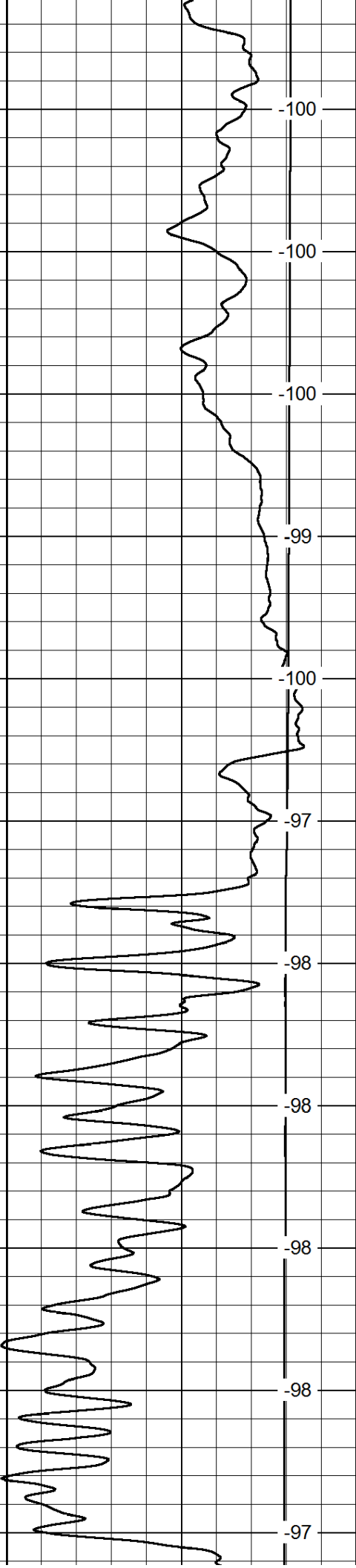
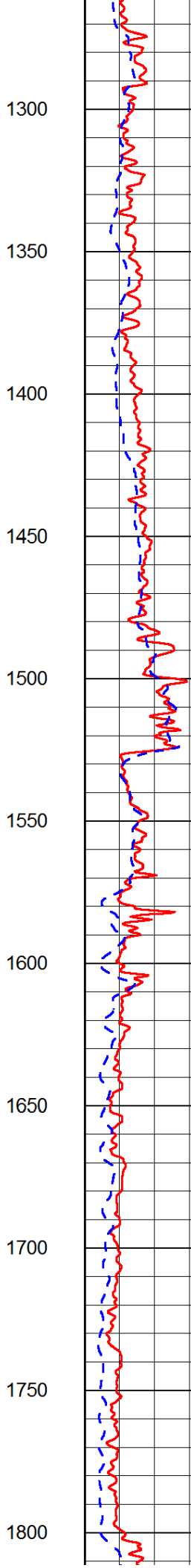
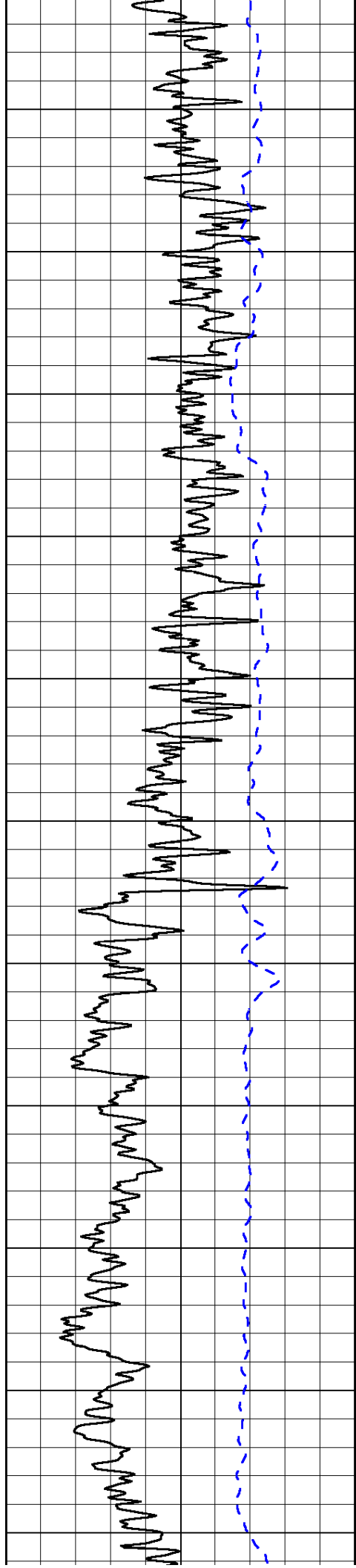
Dighton KS, 2 East to Mustang RD,
1 South, East Into

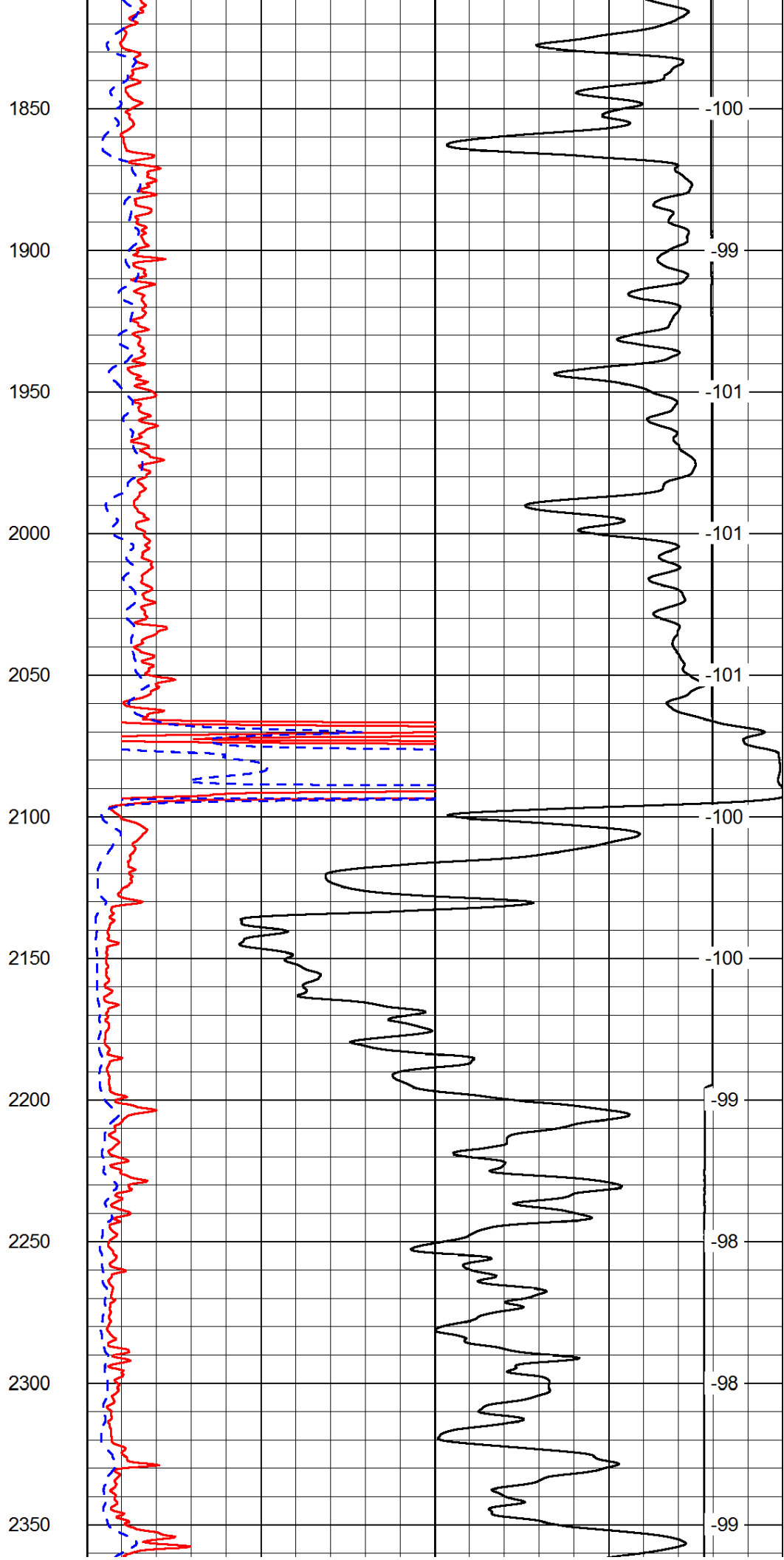
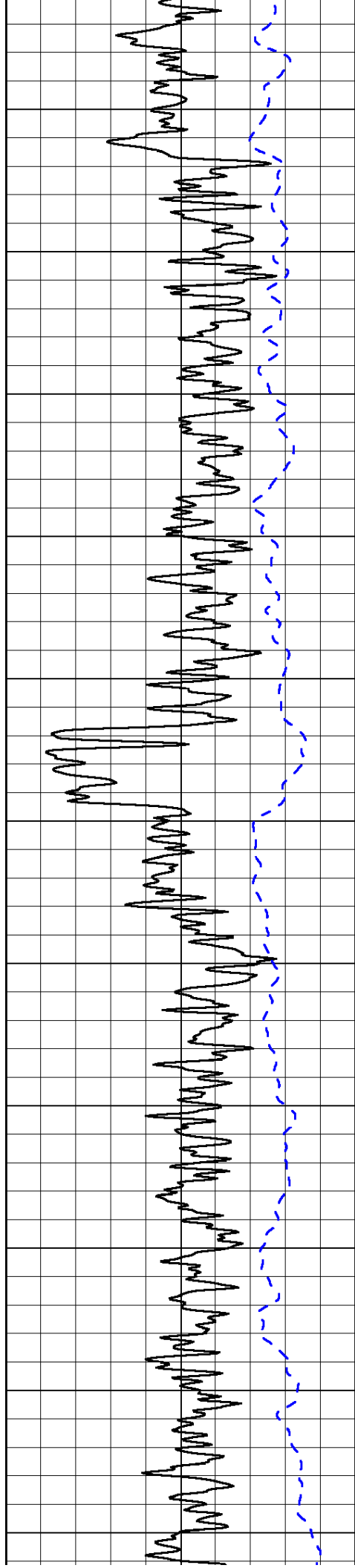
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Presentation Format: dil2in
Dataset Creation: Thu Feb 20 19:59:04 2014
Charted by: Depth in Feet scaled 1:600

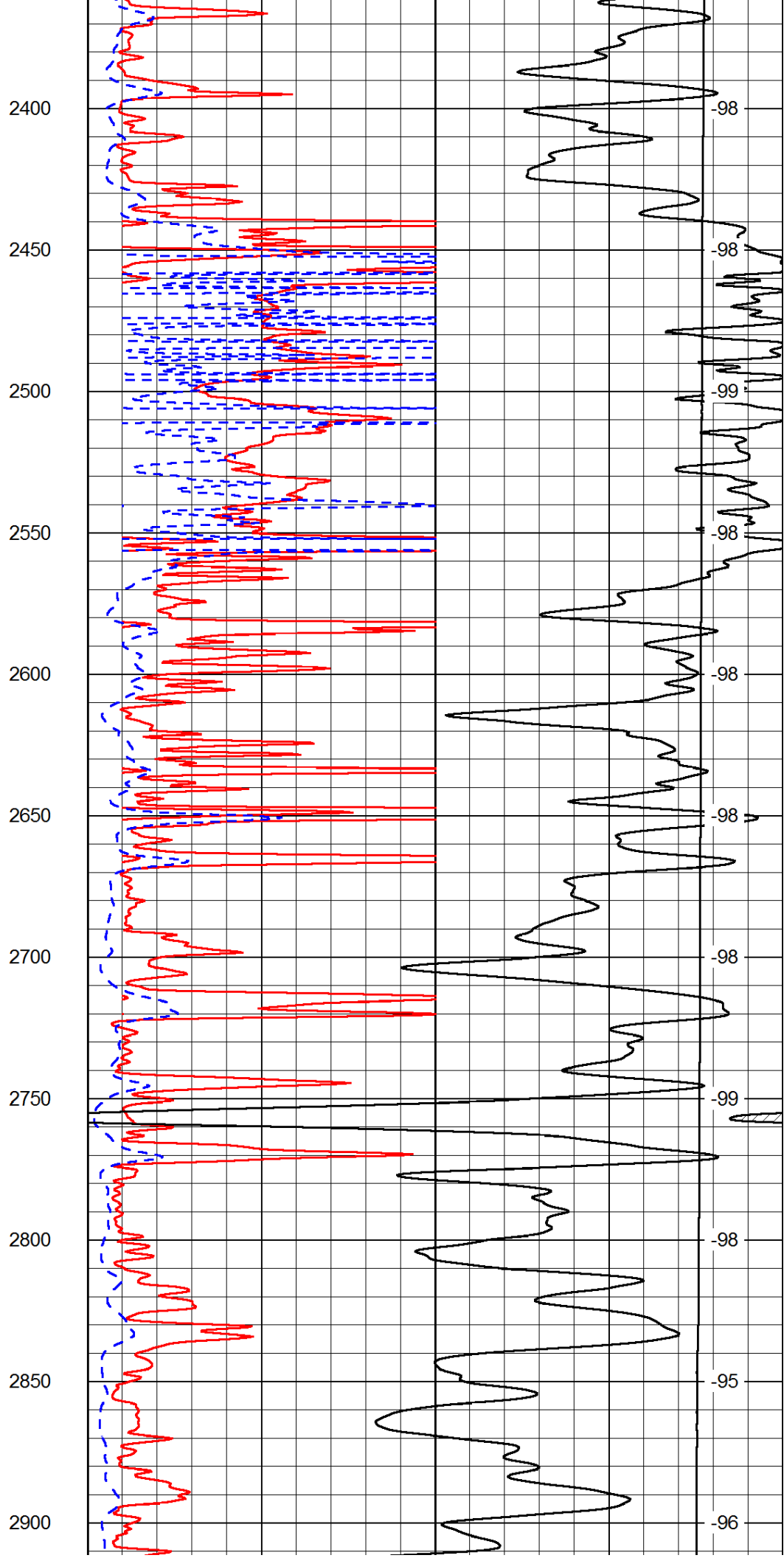
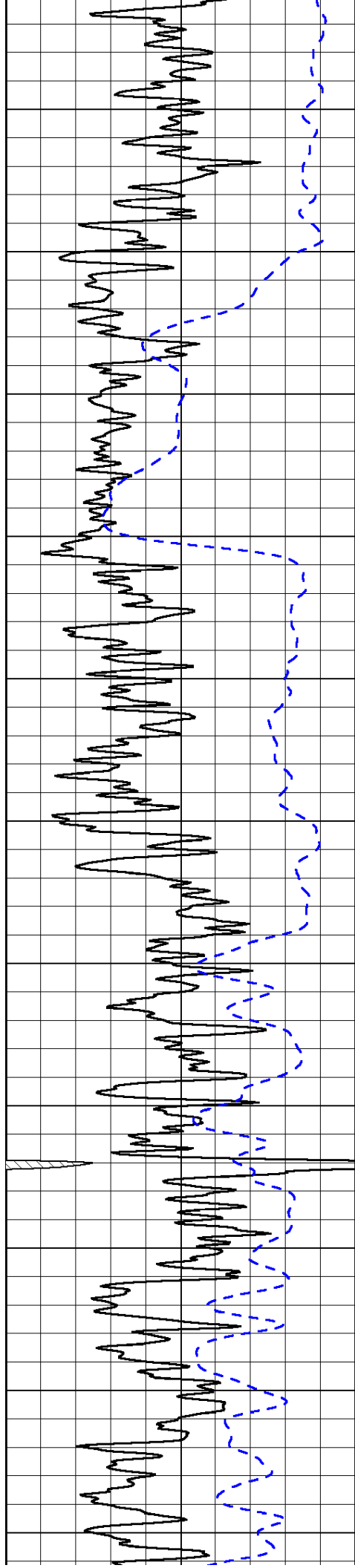
Charted by: Depth in Feet scaled 1:500								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

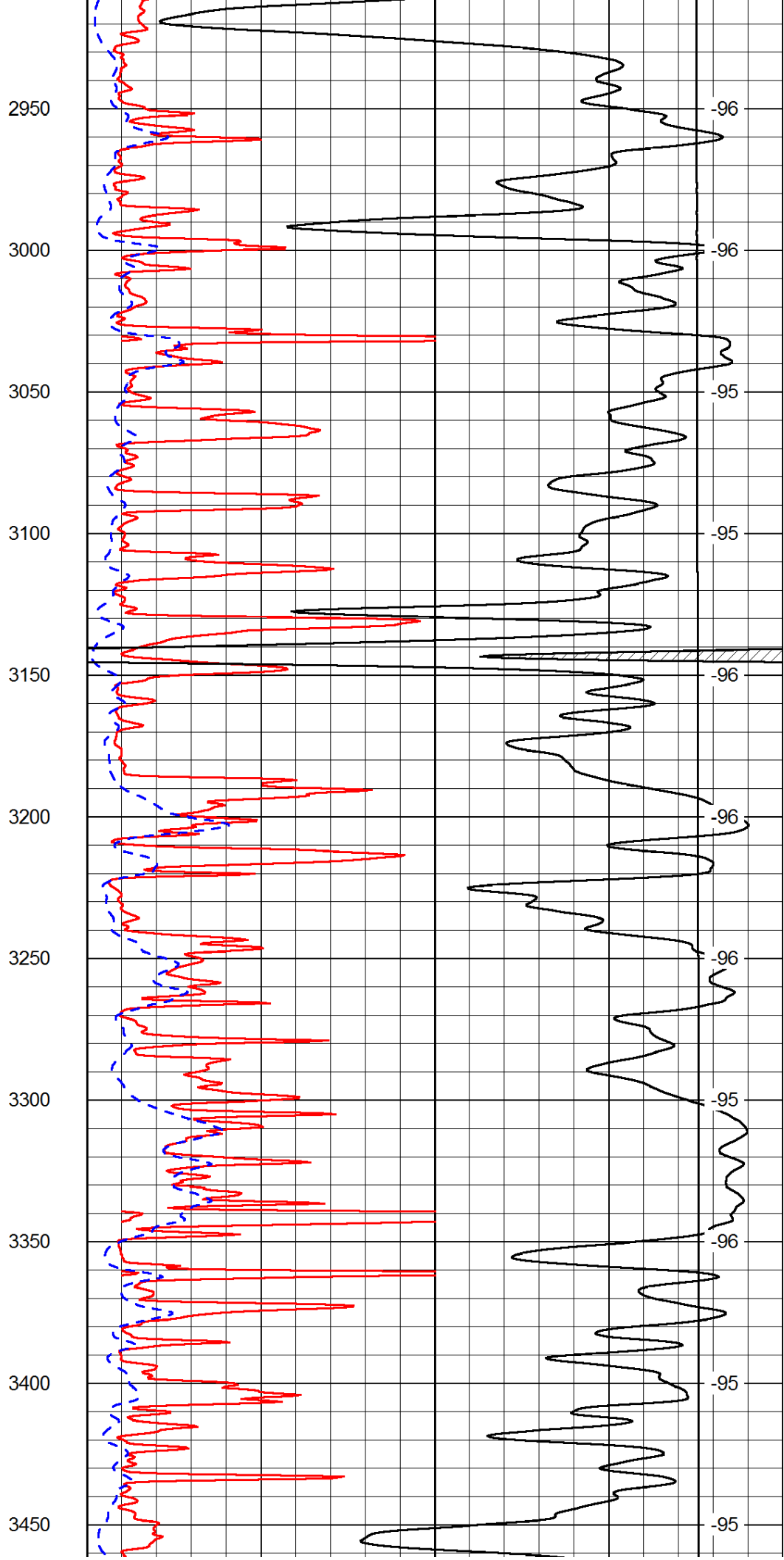
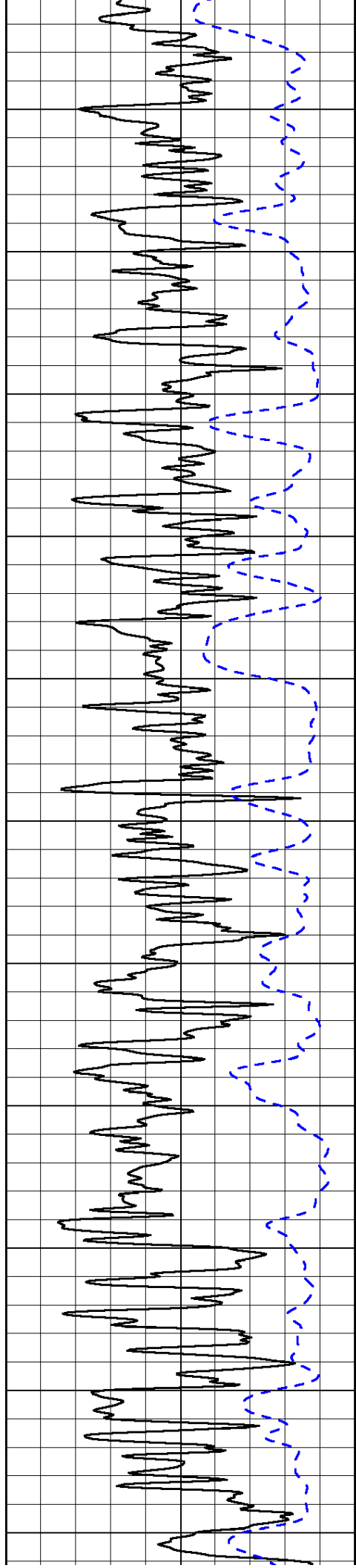


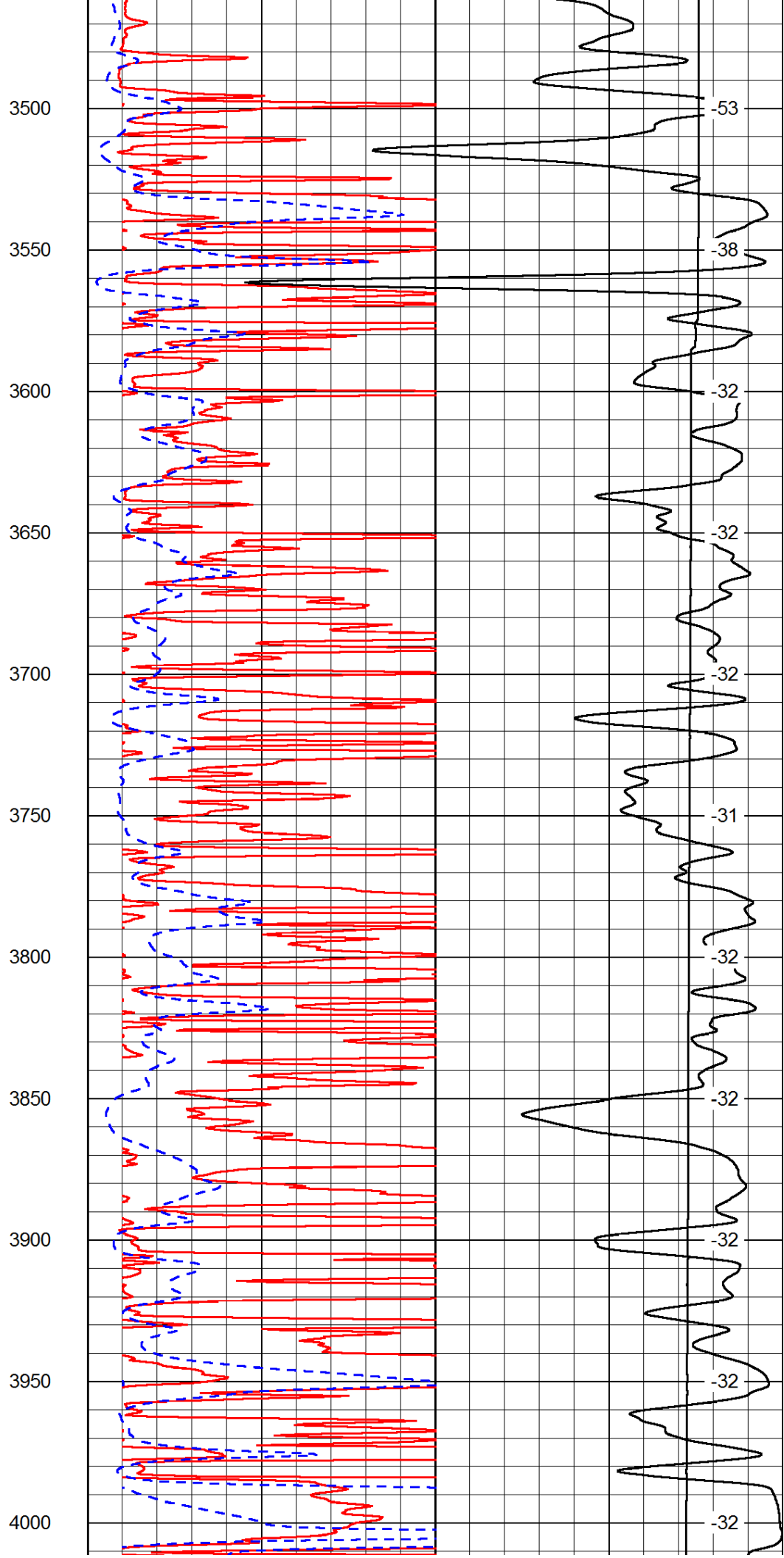
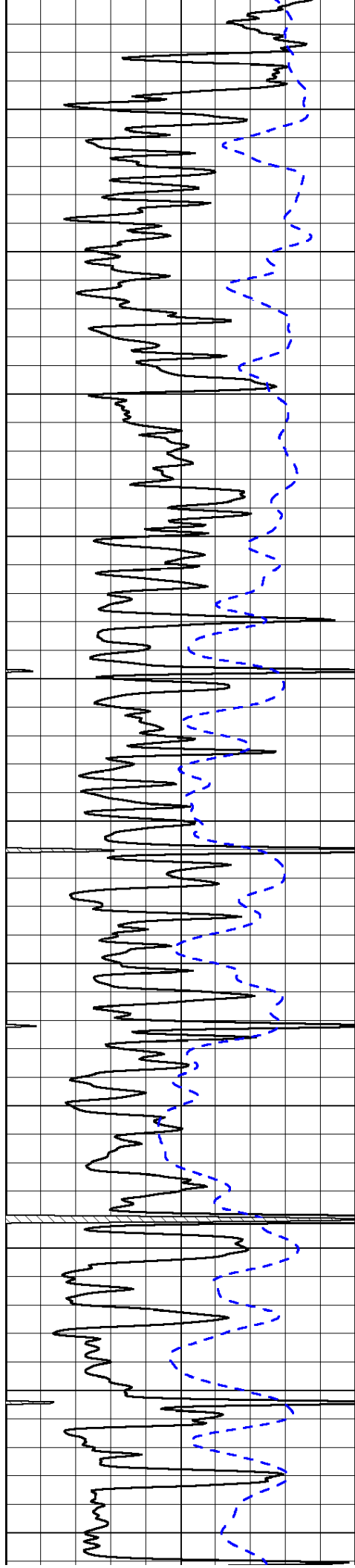


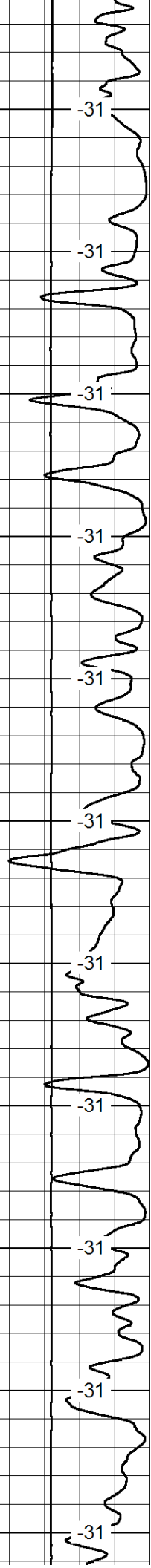
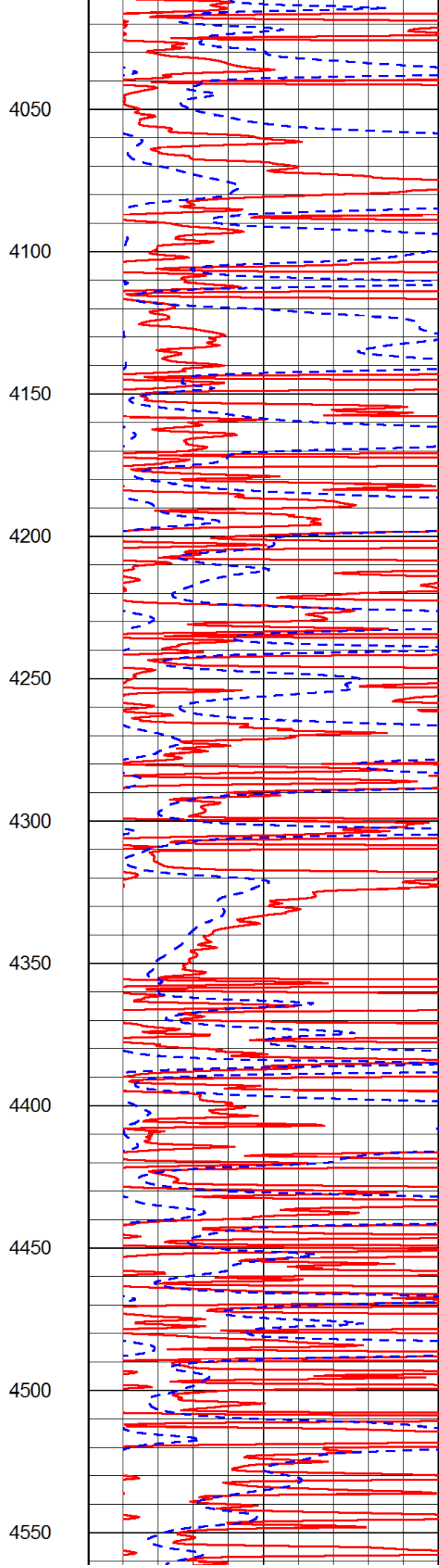
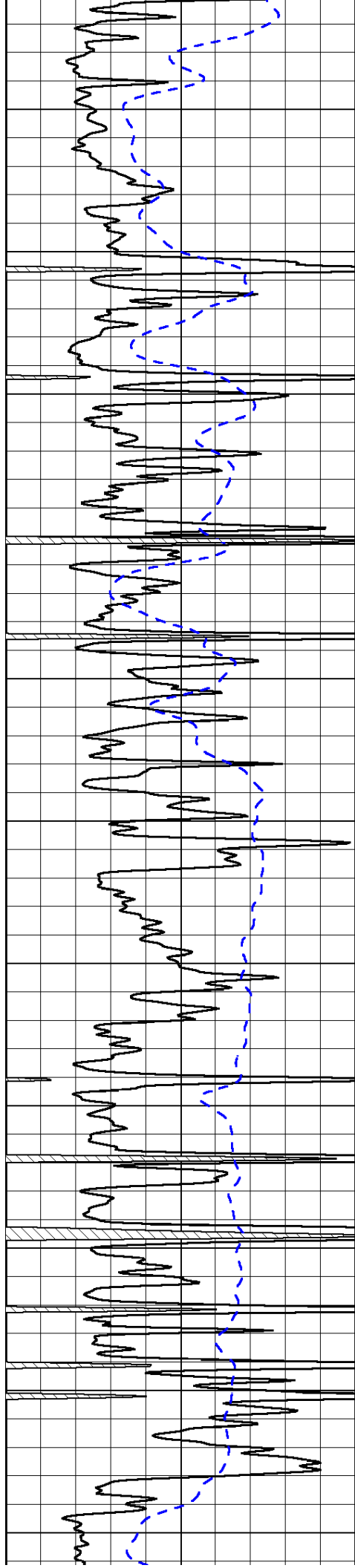


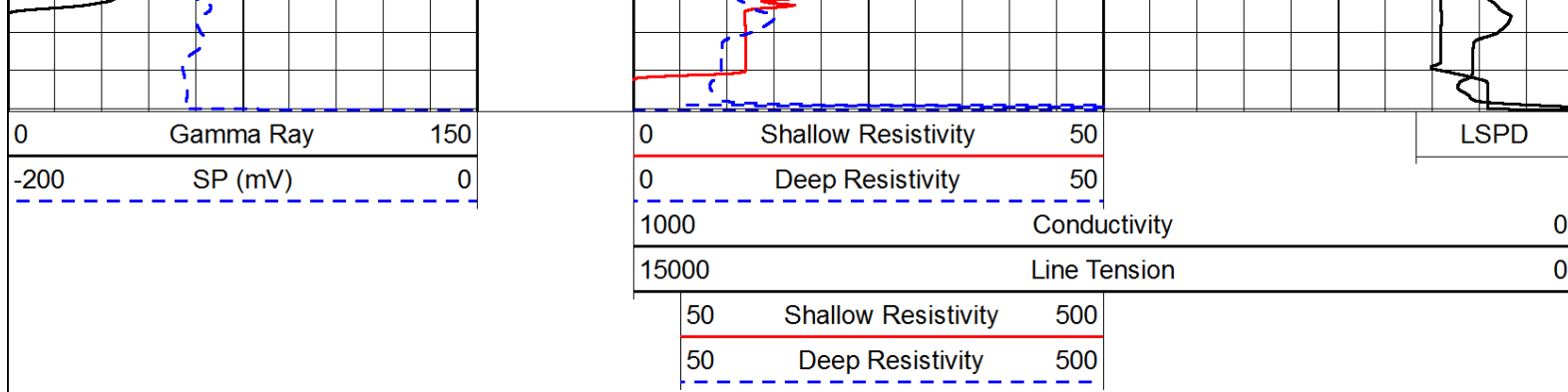




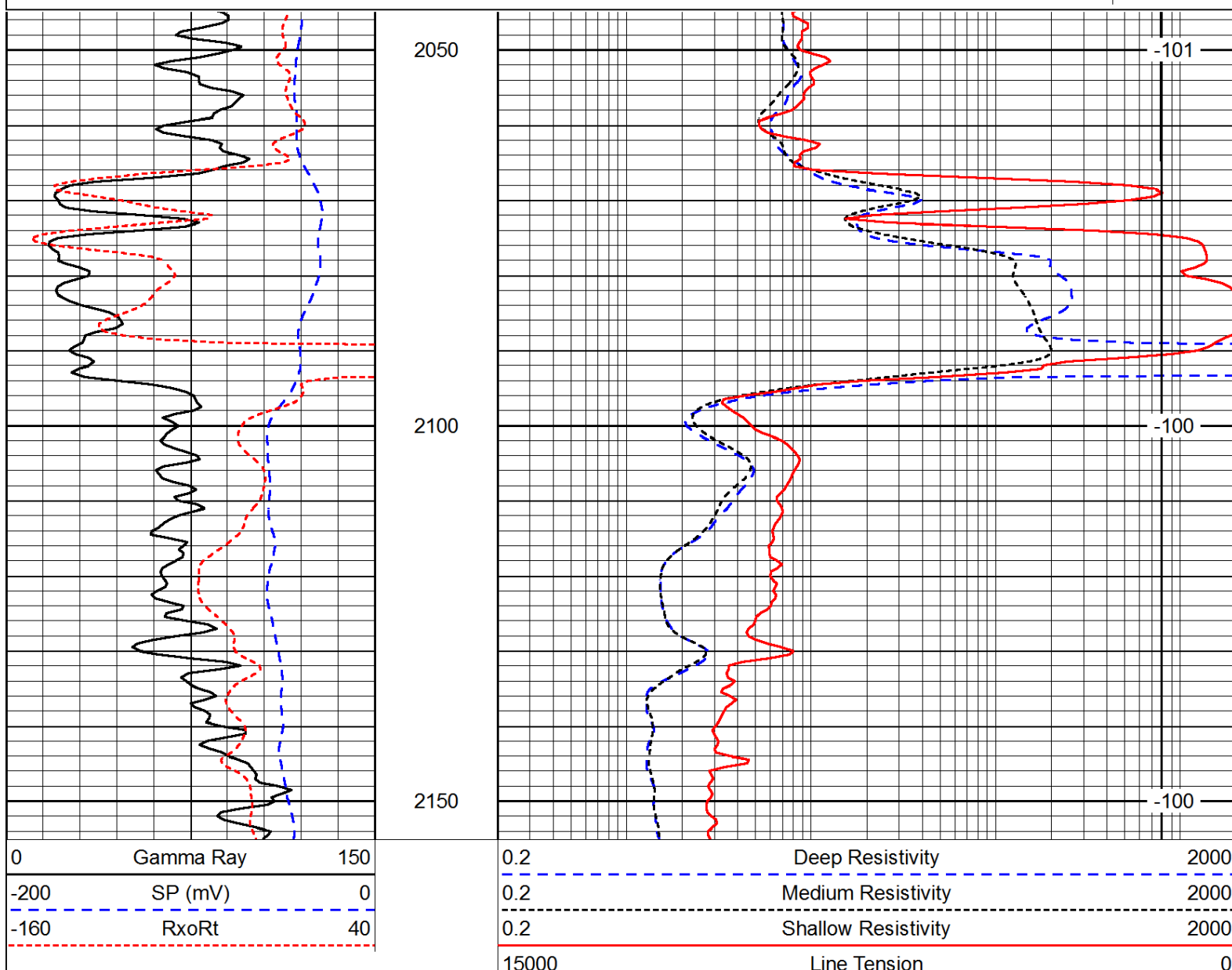
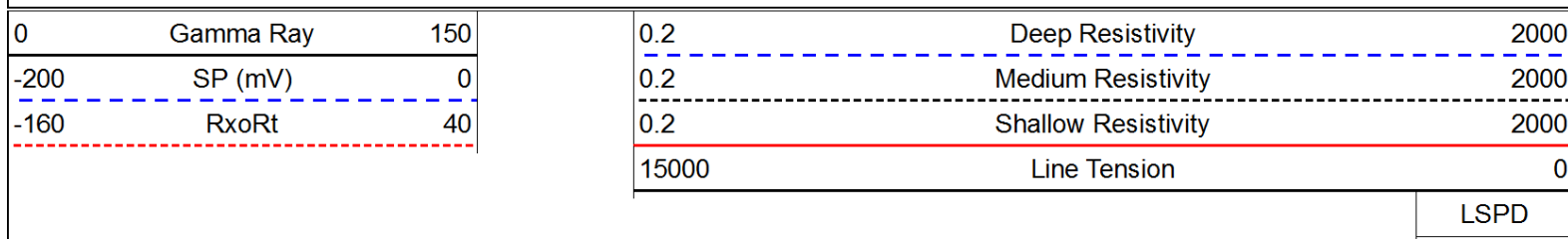








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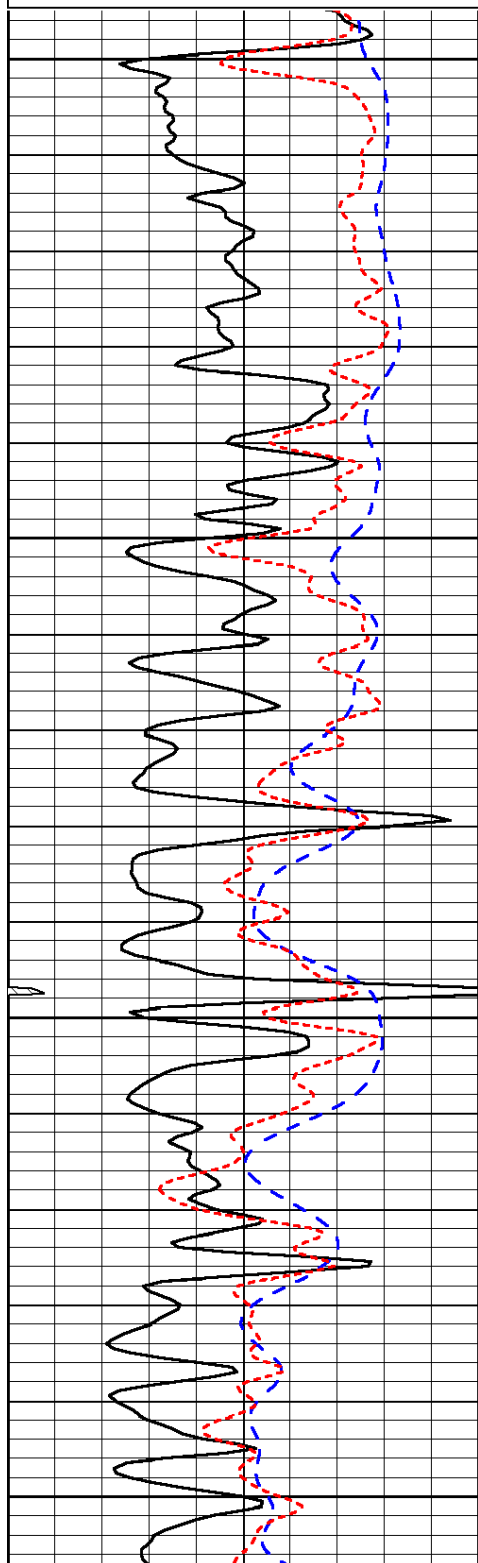


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Dataset Pathname: DIL\larstk
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Dataset Creation: Thu Feb 20 19:59:04 2014
Charted by: Depth in Feet scaled 1:240

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

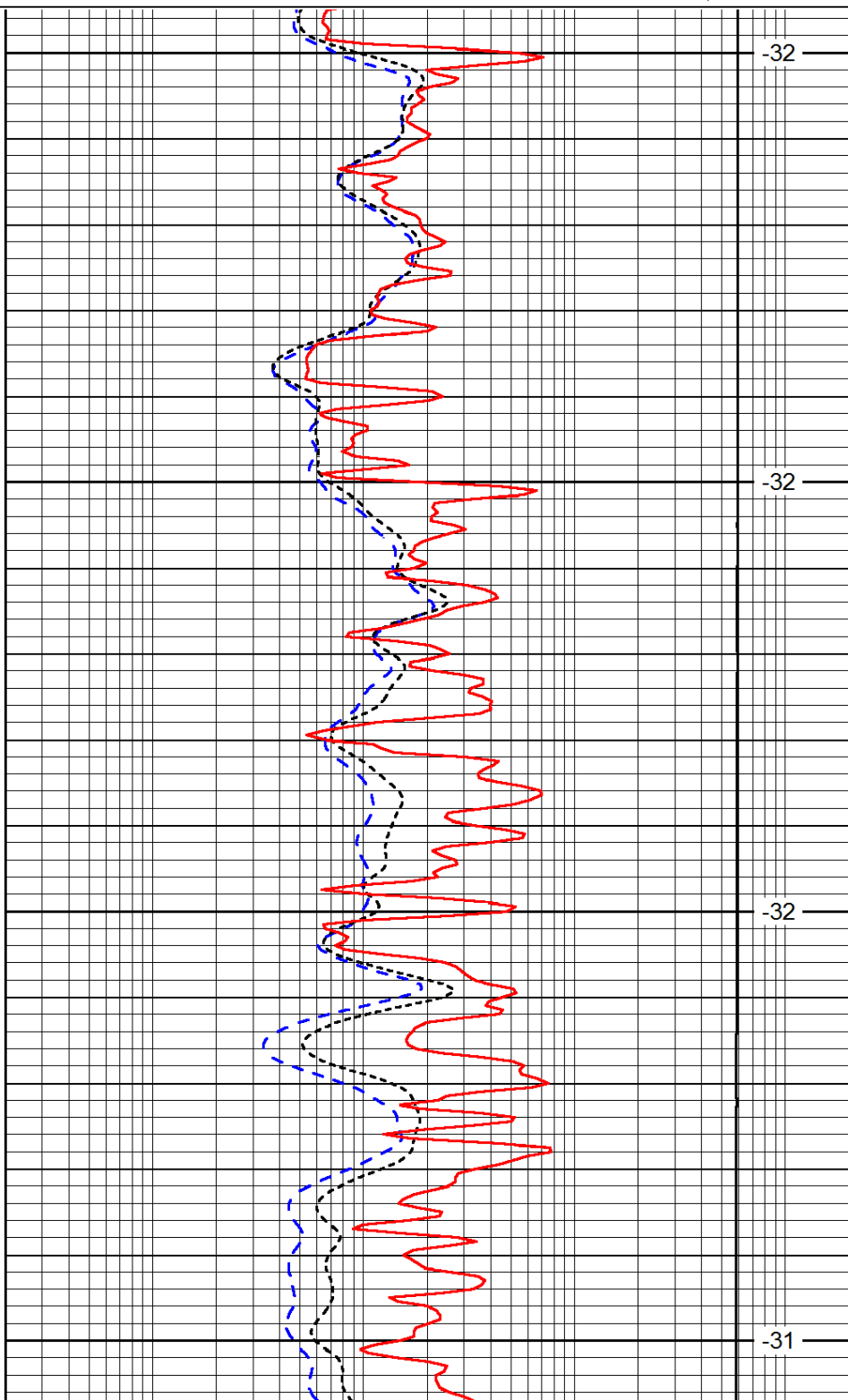


3600

3650

3700

3750

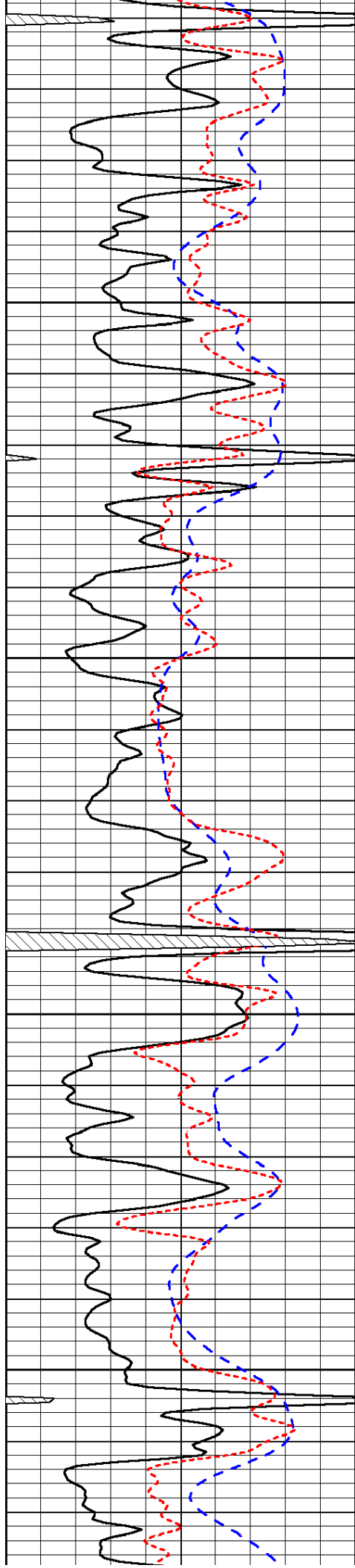


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-32

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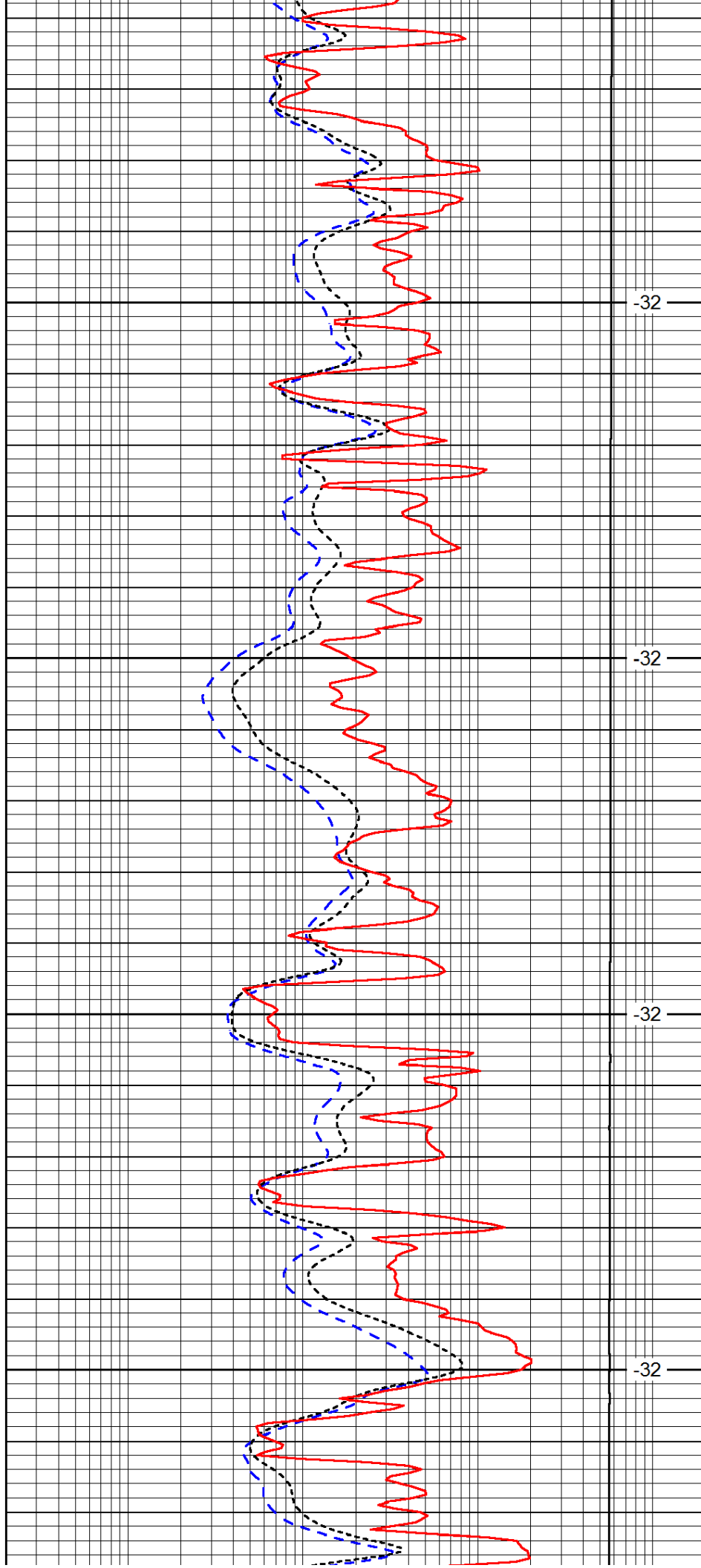


3800

3850

3900

3950

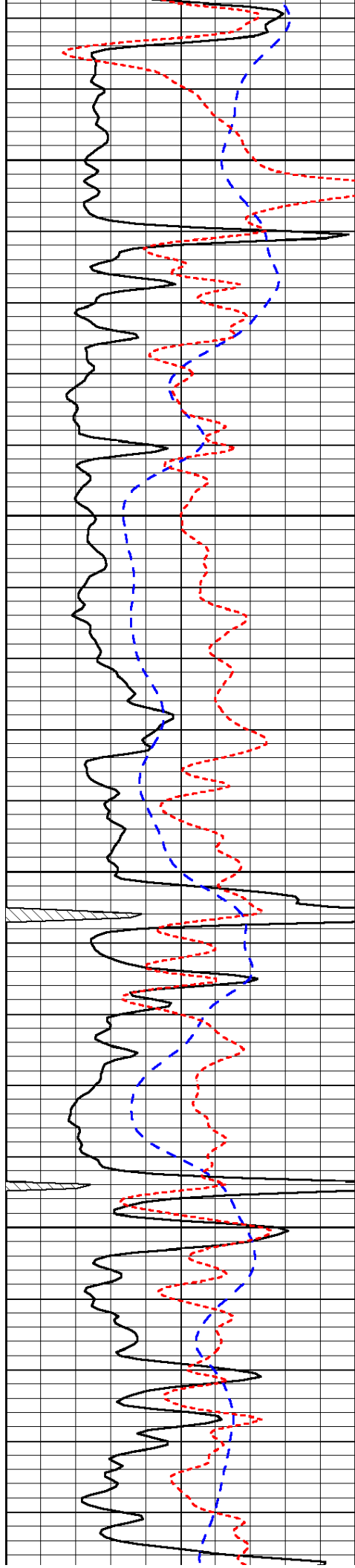


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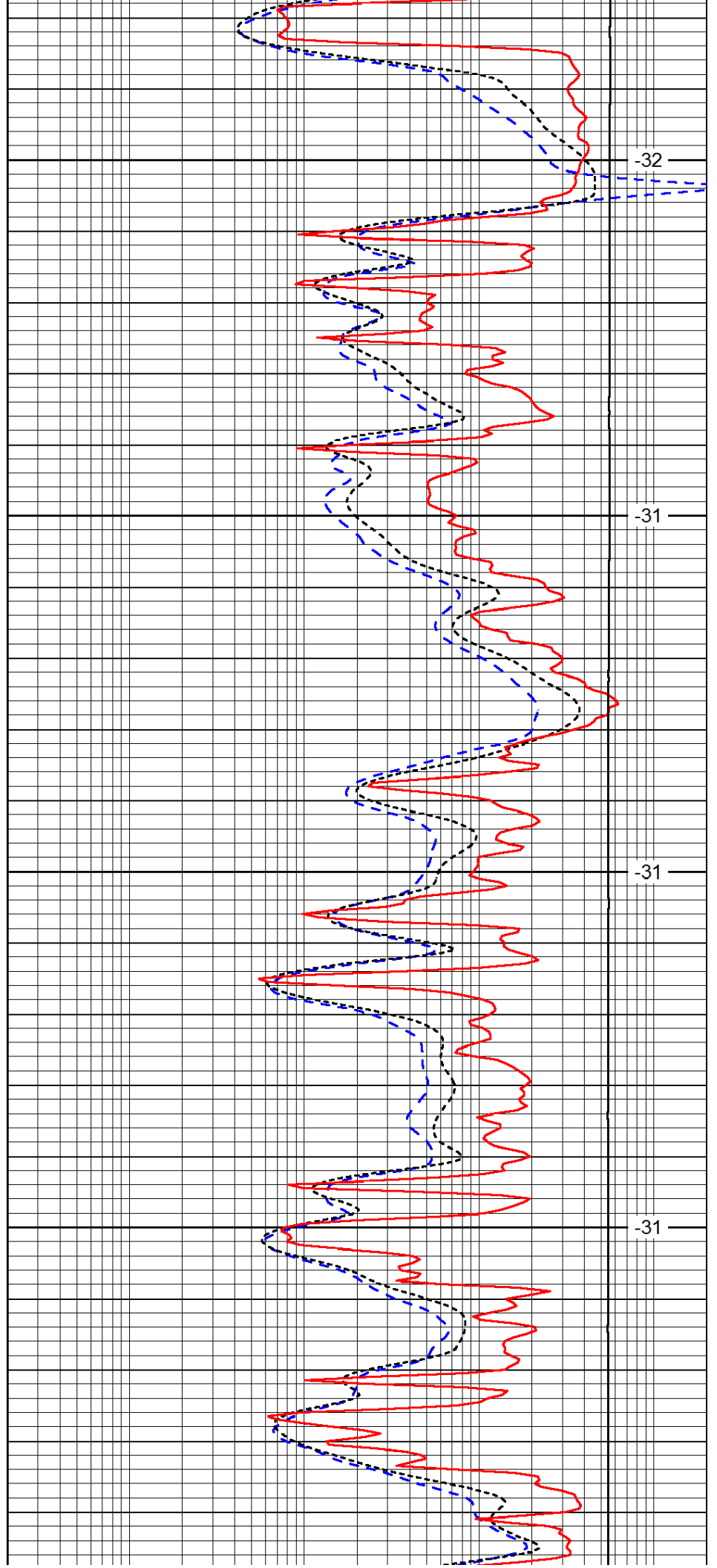


4000

4050

4100

4150

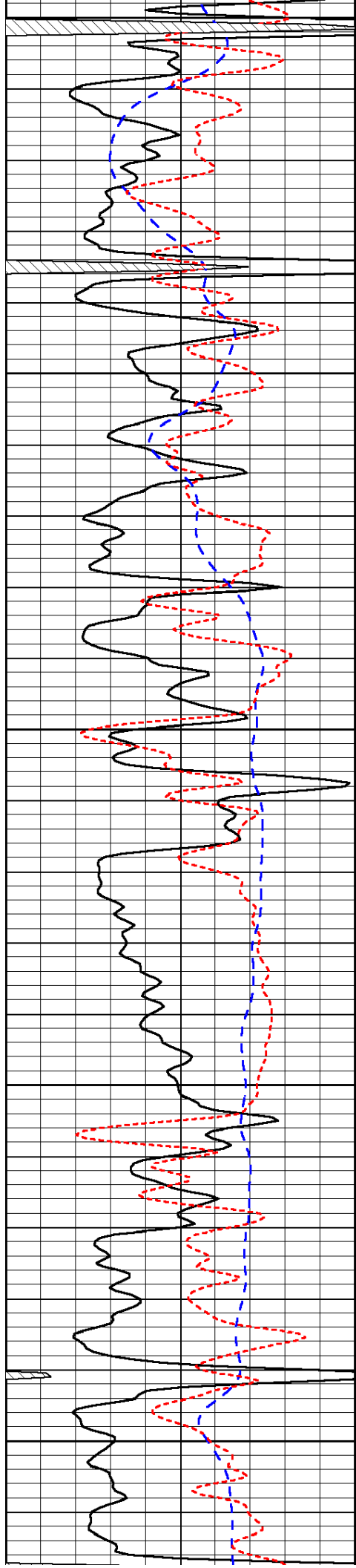


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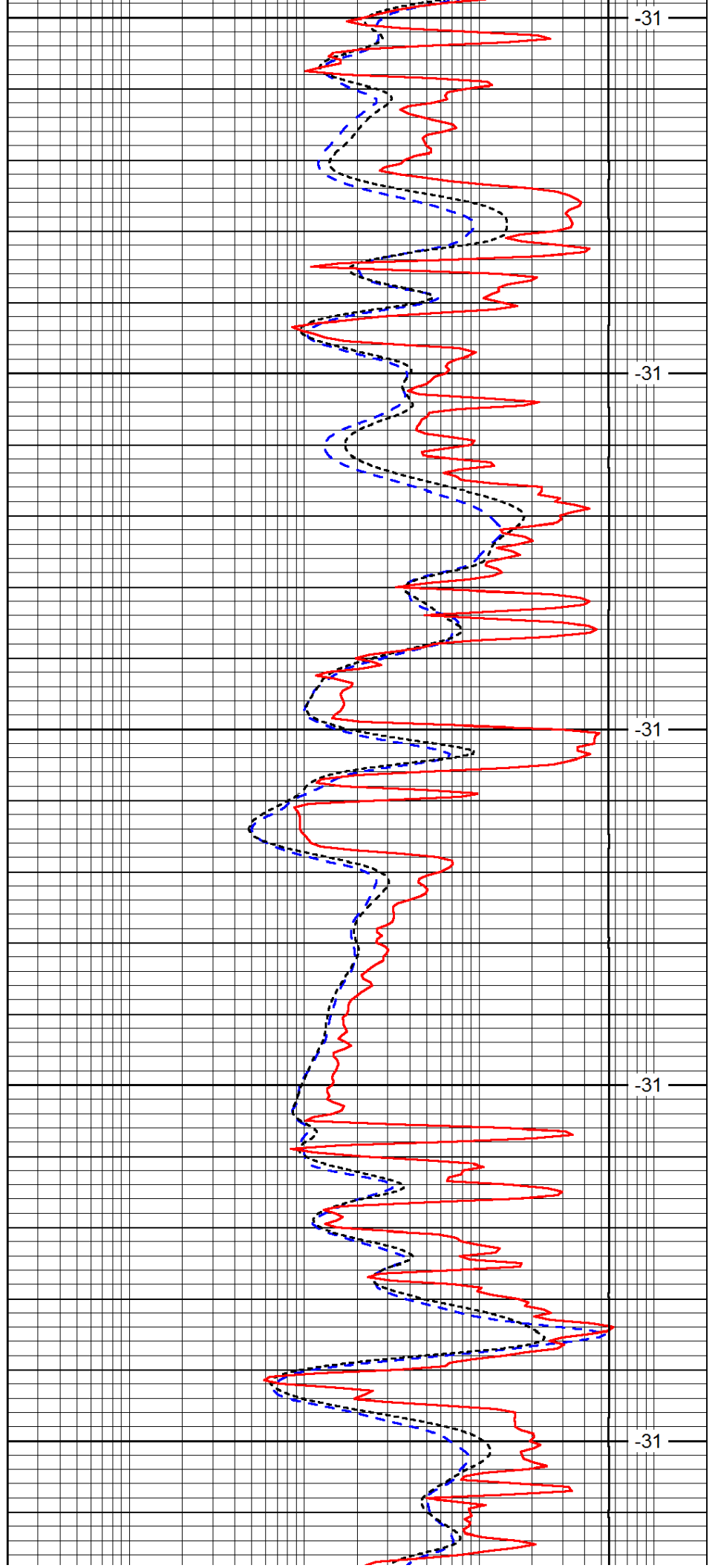
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4250

4300

4350

4400



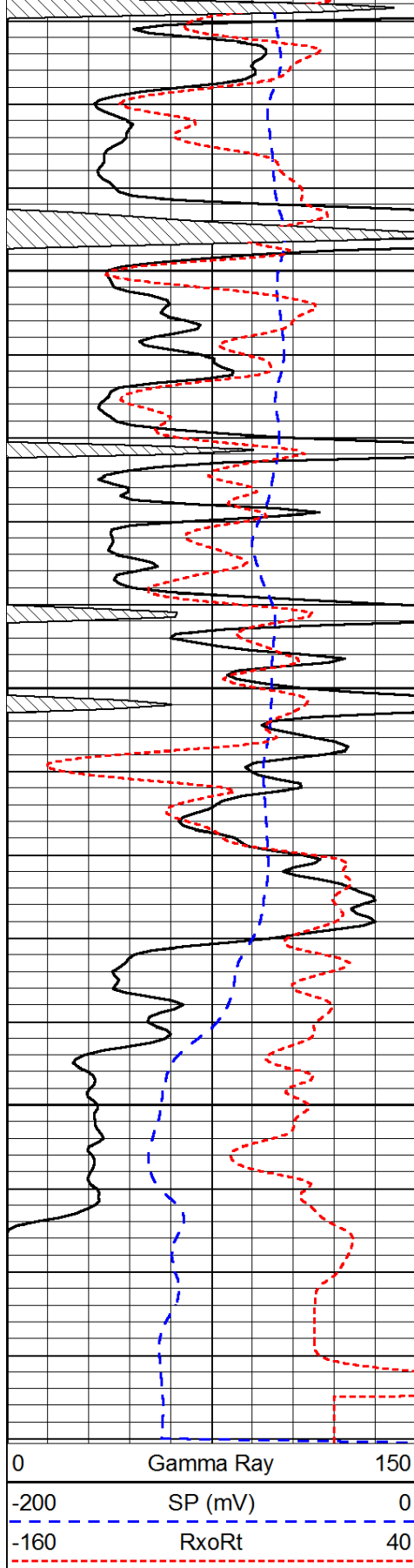
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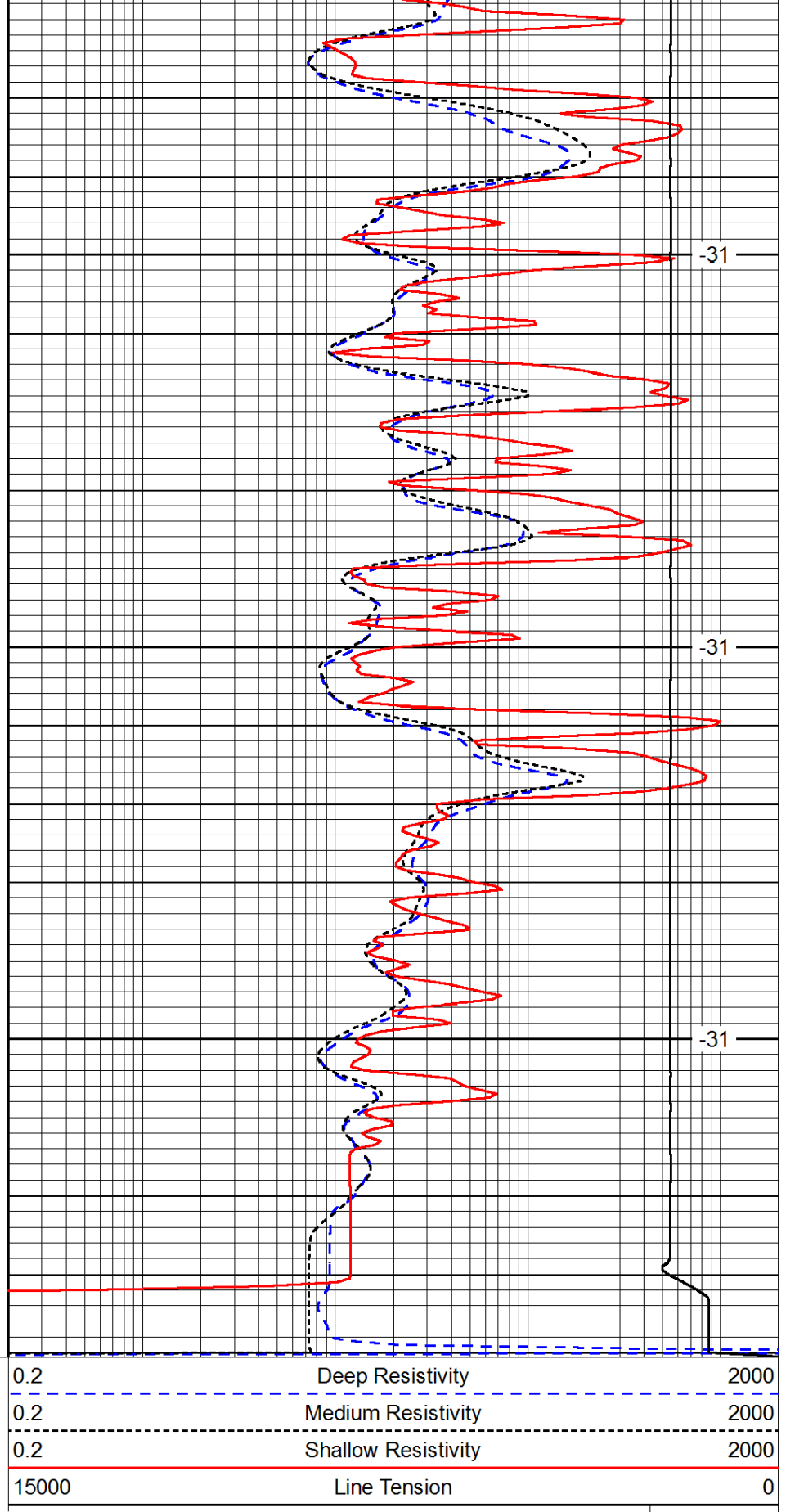
-31



4450

4500

4550



-31

-31

-31

LSPD