



Dual Induction Log

Pioneer Energy Services

API No.	Company Culbreath Oil & Gas Company, Inc.		
	Well Coburn #5-08		
	Field Tilton Northeast		
	County Sheridan	State	Kansas
	Location	E2 SE NW 1980' FNL / 2310' FWL	
	Sec: 8	Twp: 10S	Rge: 26W
	Permanent Datum	Ground Level	Elevation 2586
	Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
	Drilling Measured From	From Kelly Bushing	K.B. 2596 D.F. 2586 G.L. 2586
Date	7/12/2013		
Run Number	One		
Depth Driller	4120		
Depth Logger	4118		
Bottom Logged Interval	4117		
Top Log Interval	200		
Casing Driller	8.625 @ 220		
Casing Logger	220		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	800		
Density / Viscosity	9.1 54		
pH / Fluid Loss	9.5 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.90 @ 74		
Rmf @ Meas. Temp	0.68 @ 74		
Rmc @ Meas. Temp	1.22 @ 74		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.56 @ 119		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	119		
Equipment Number	91		
Location	Hays		
Recorded By	R. Barnhart		
Witnessed By	Steve Murphy		

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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.

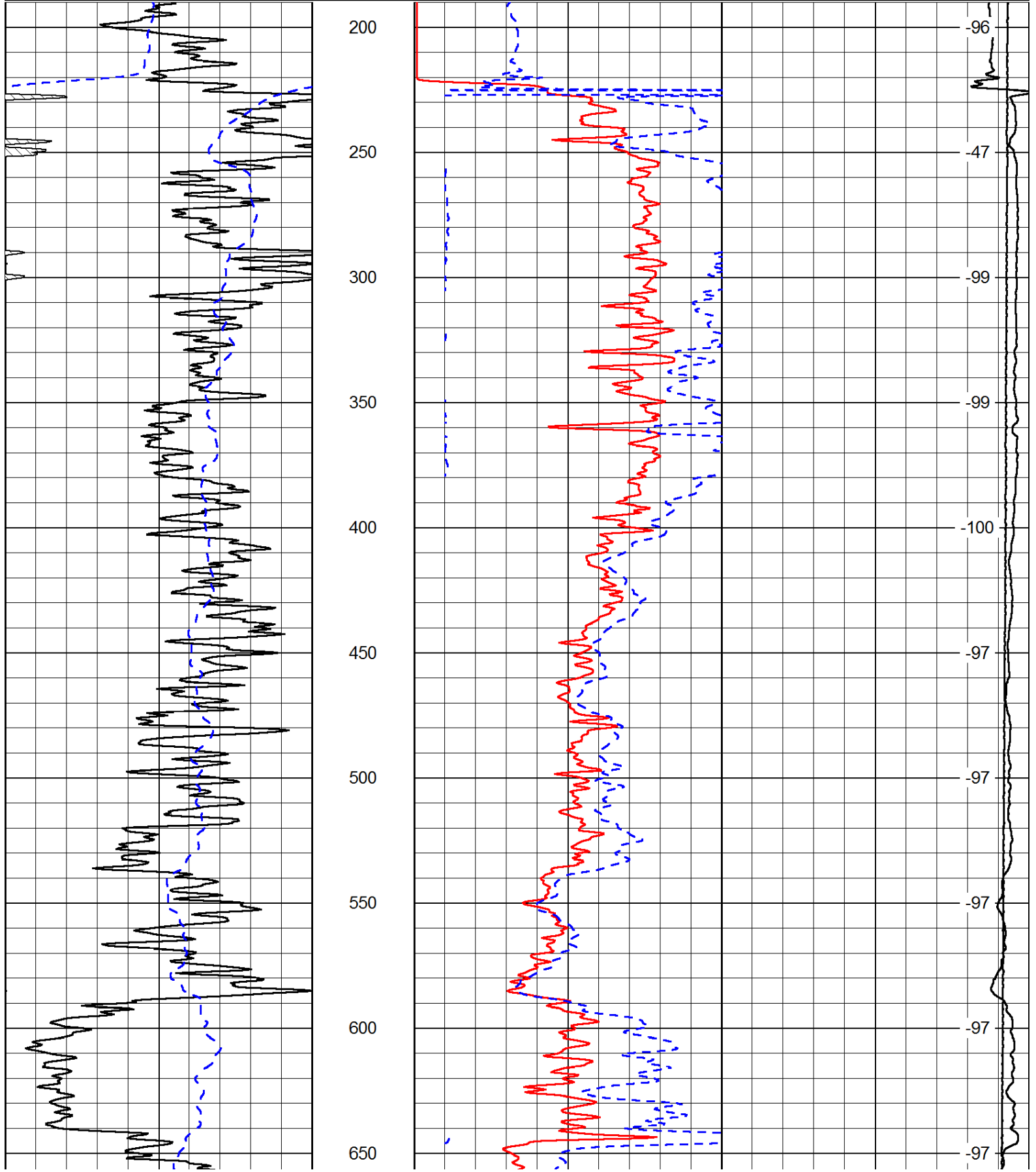
Comments

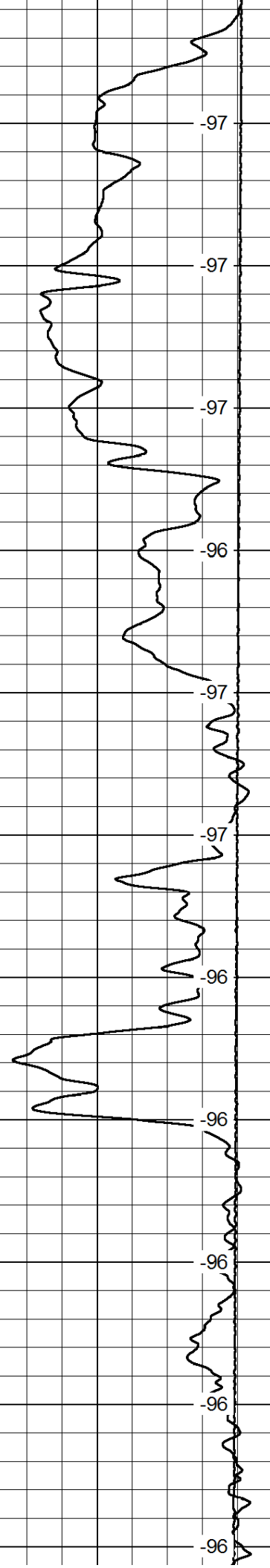
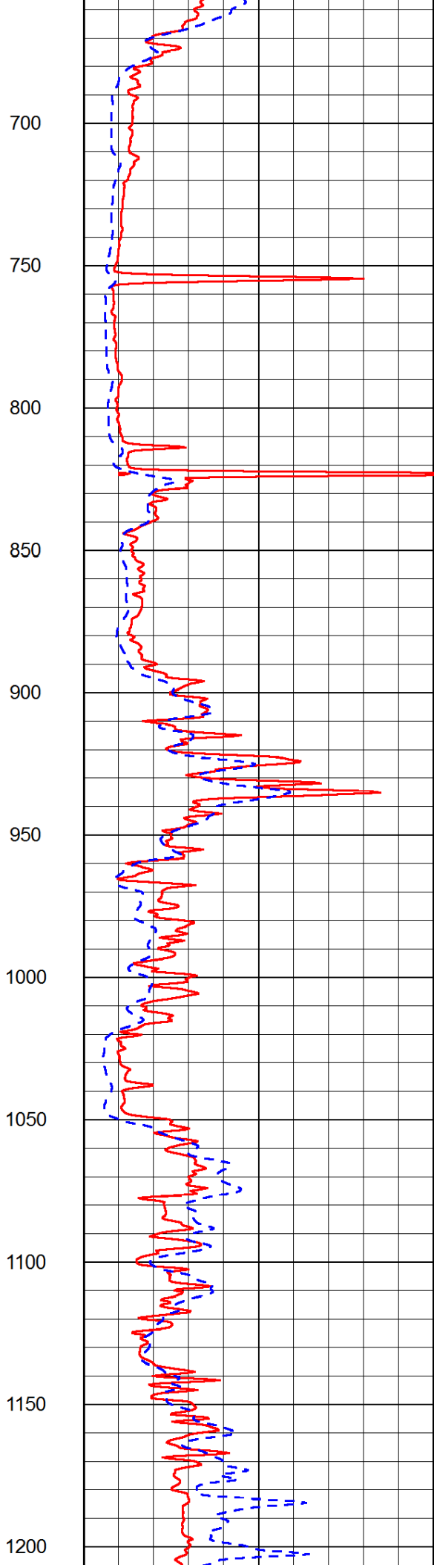
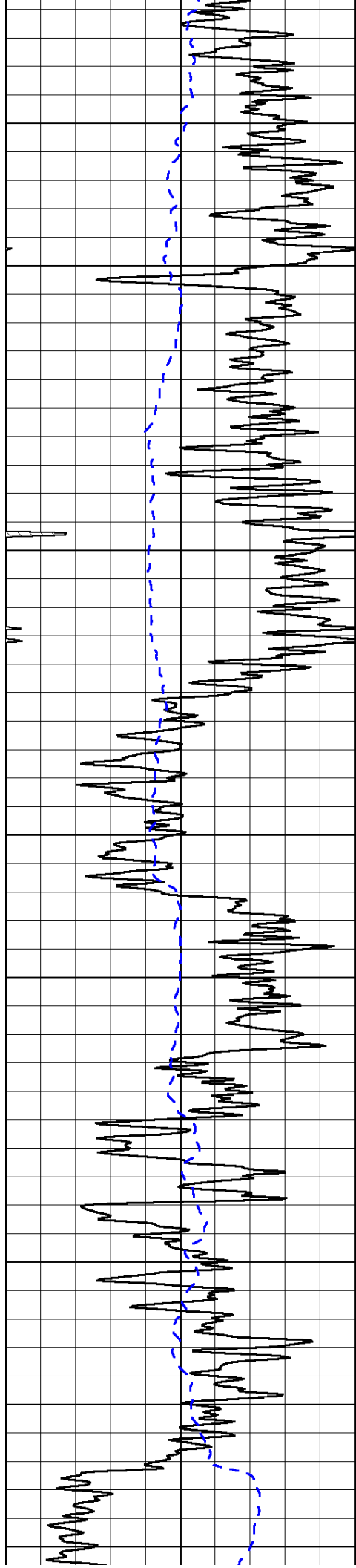
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

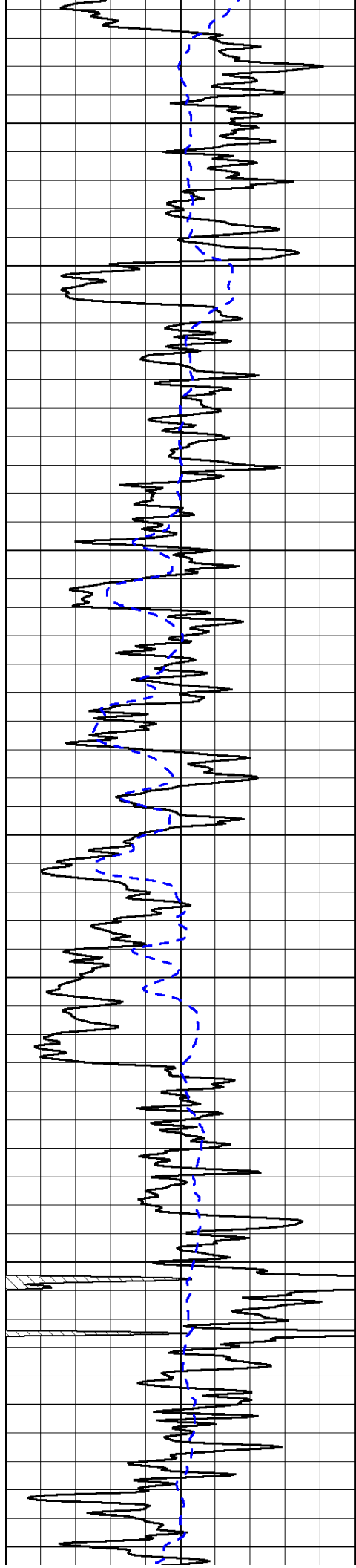
Quinter, KS:
N edge of town: 7N, 1W, 2N, E into, L at CG

Database File: c:\warrior\data\culbreath_coburn #5-08\culbreath_hd.db
Dataset Pathname: dil/clbmain
Presentation Format: dil2in
Dataset Creation: Fri Jul 12 08:30:59 2013
Charted by: Depth in Feet scaled 1:600

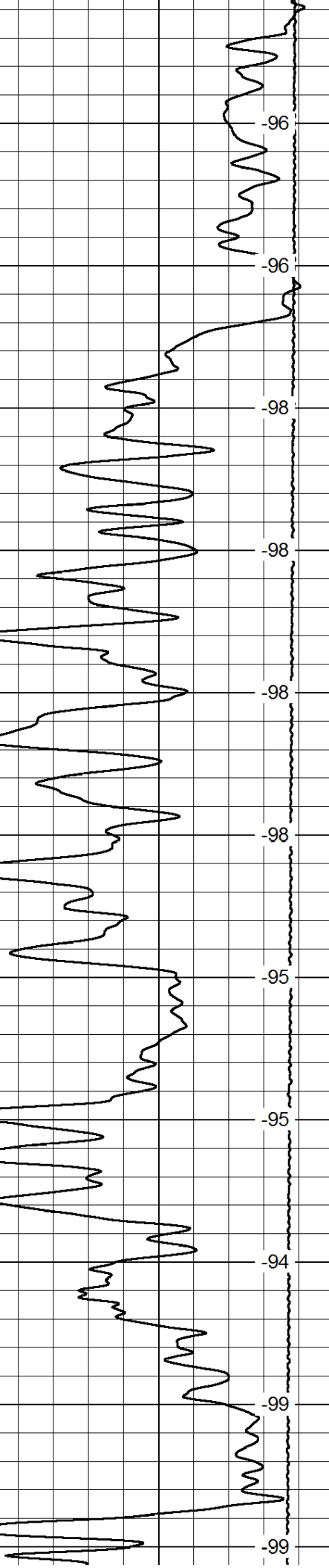
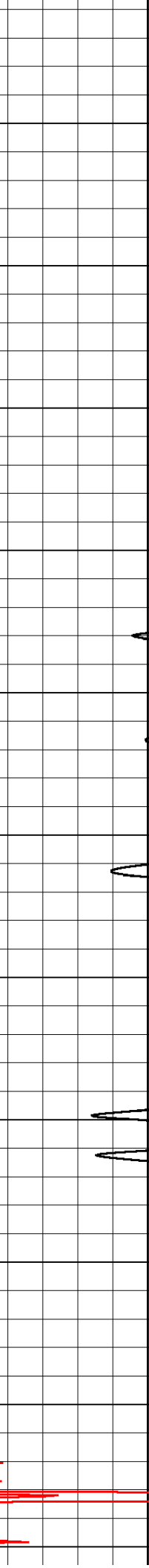
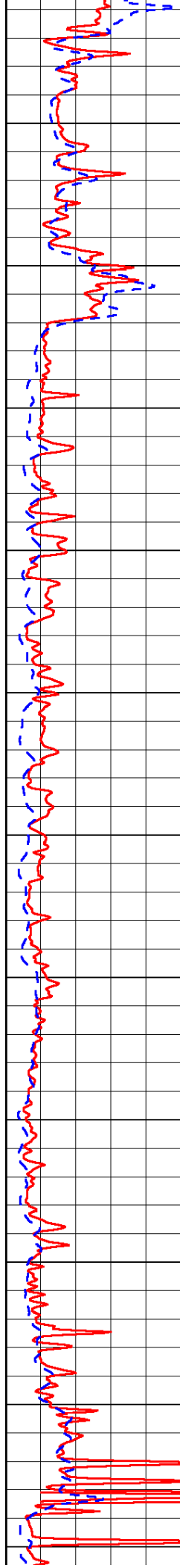
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0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

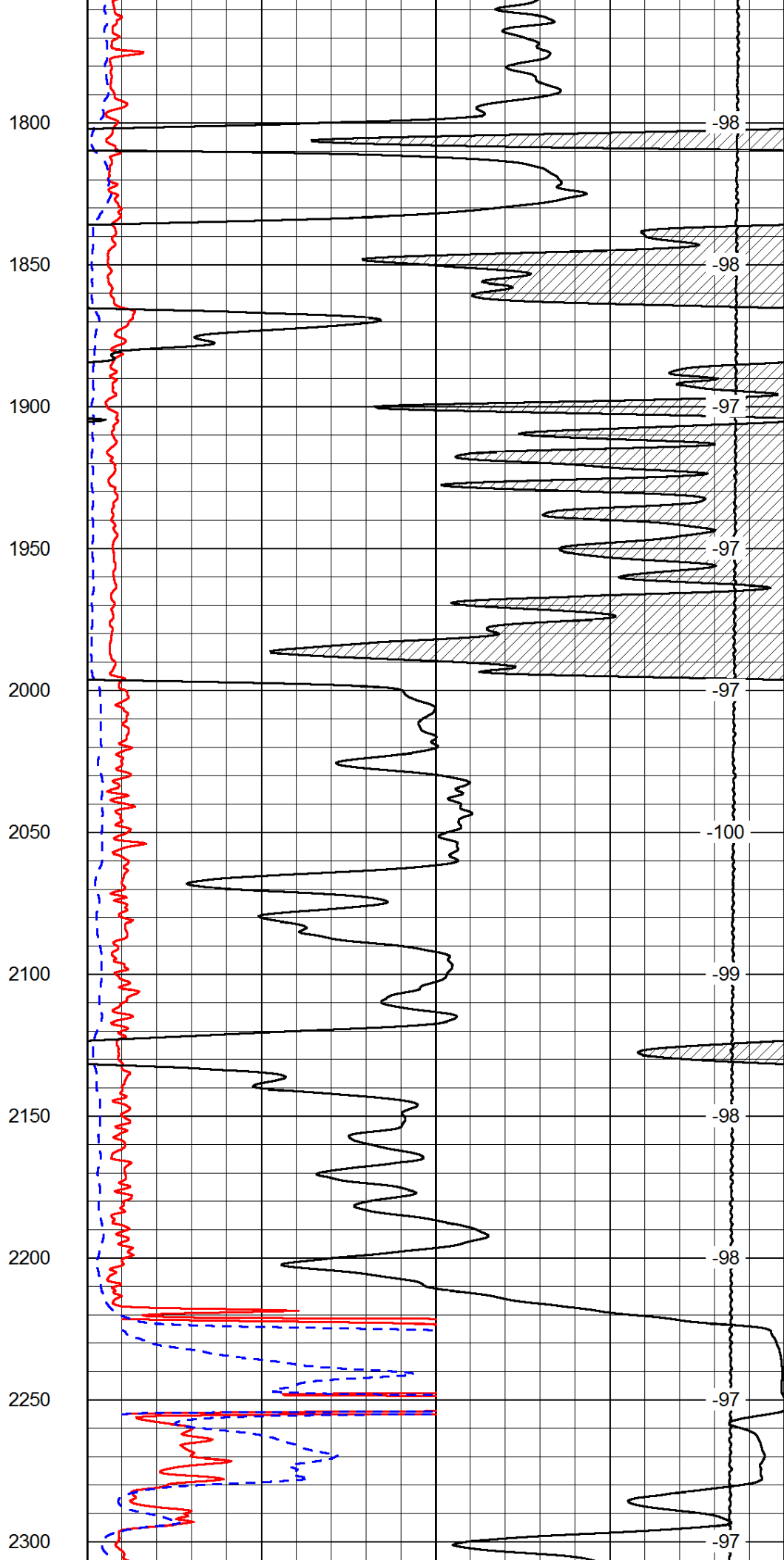
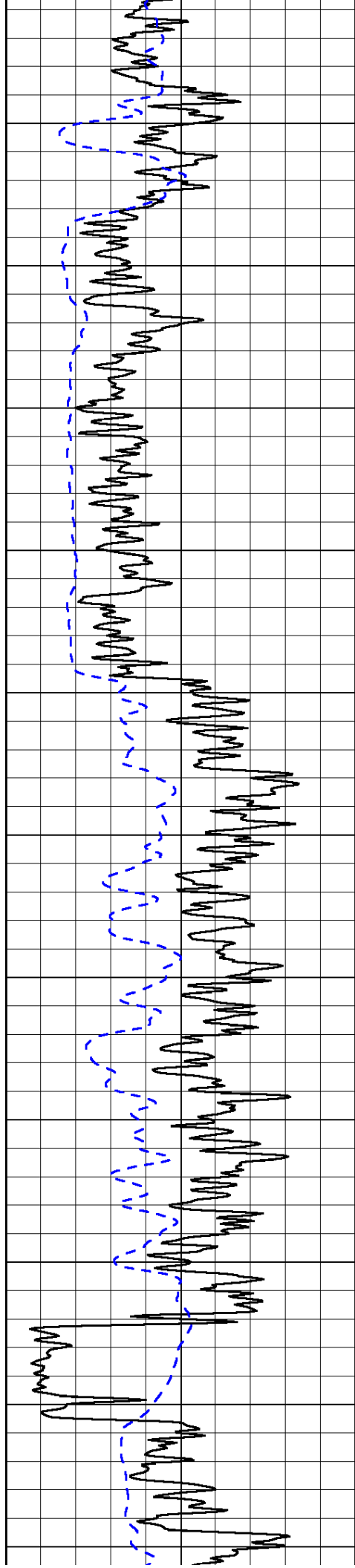


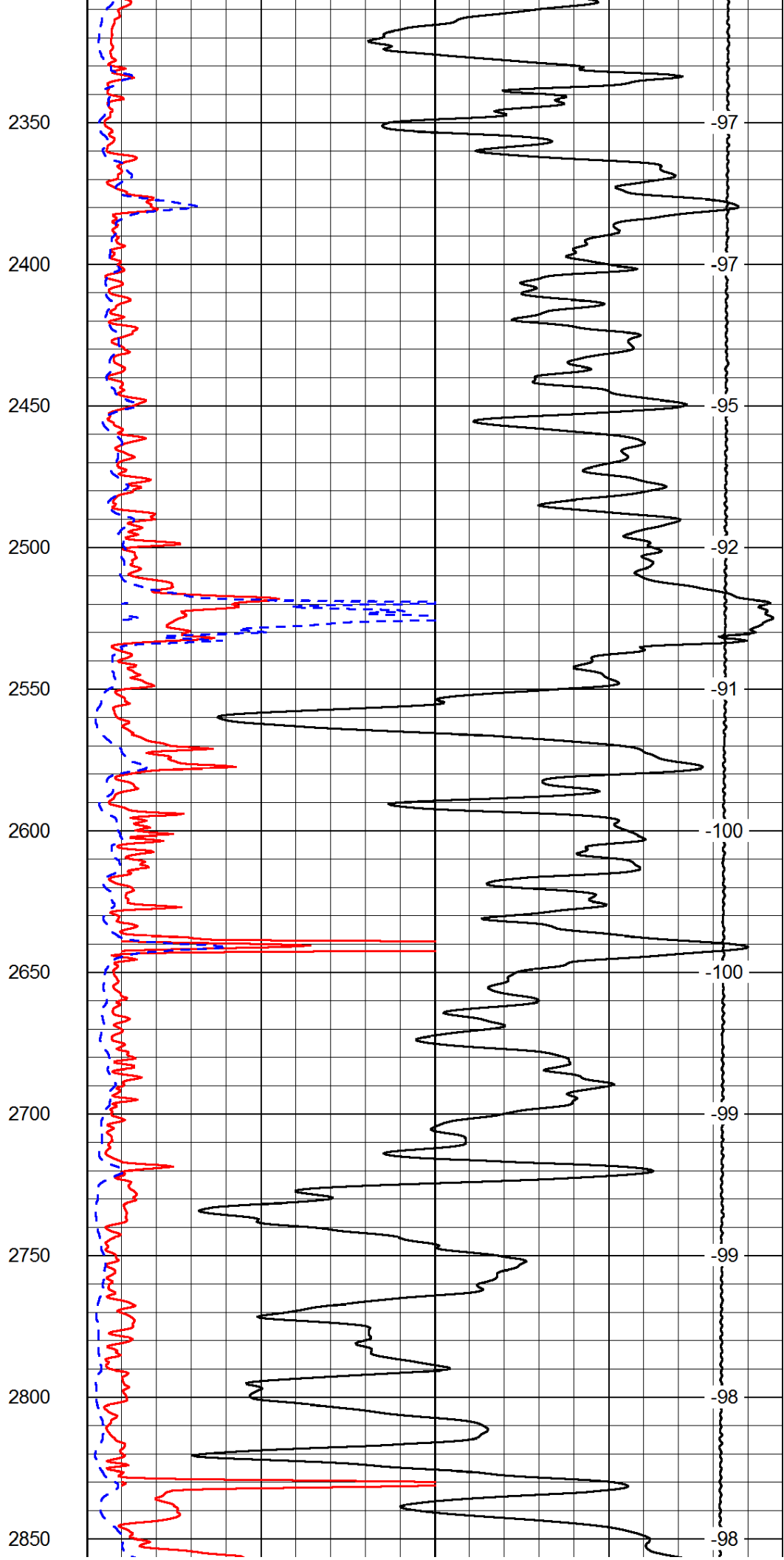
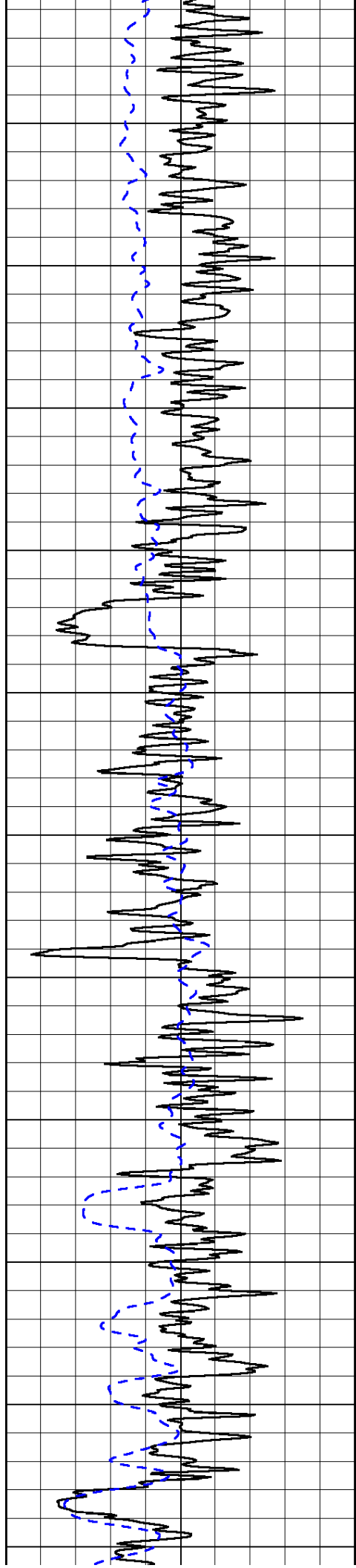


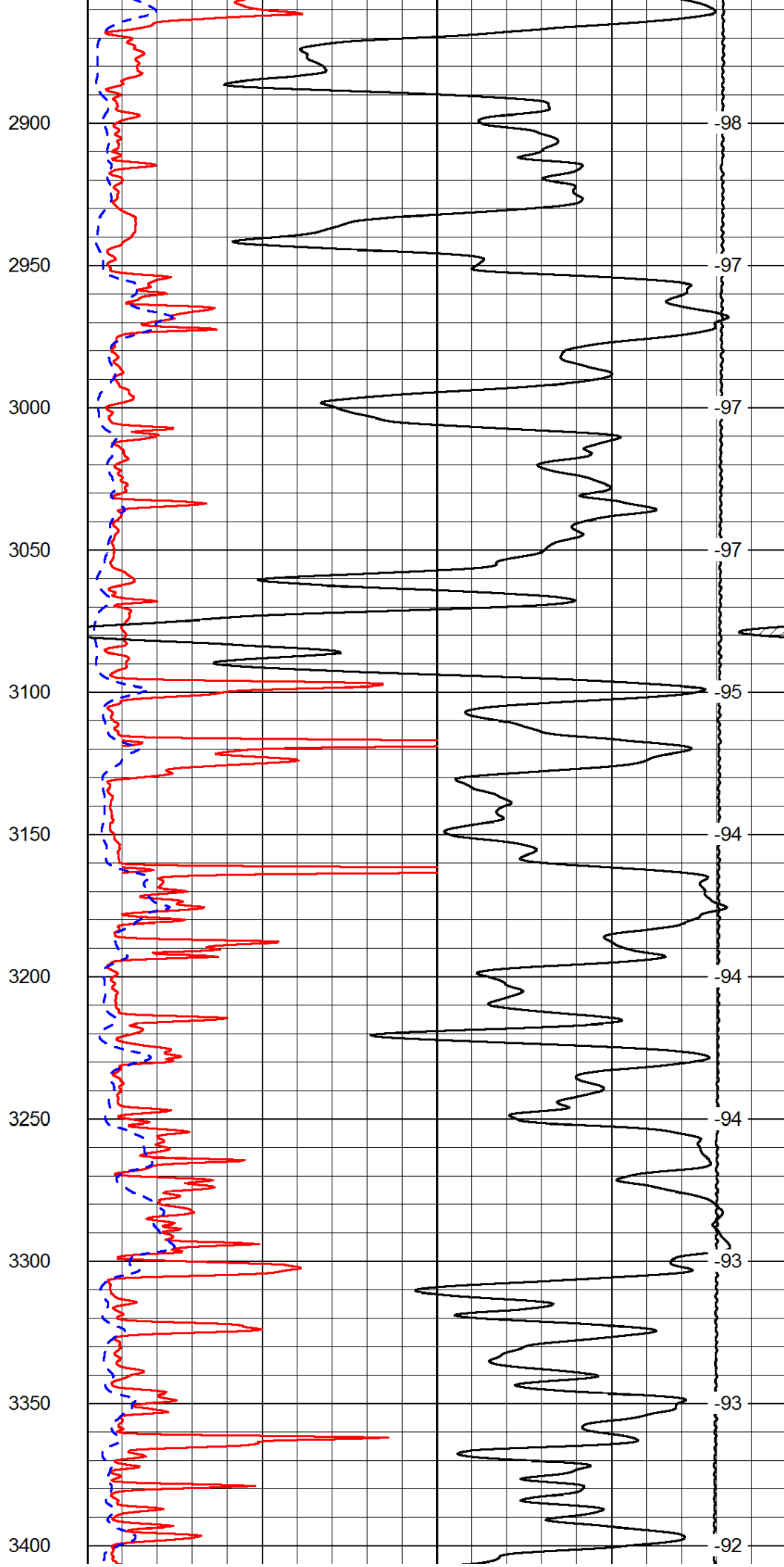
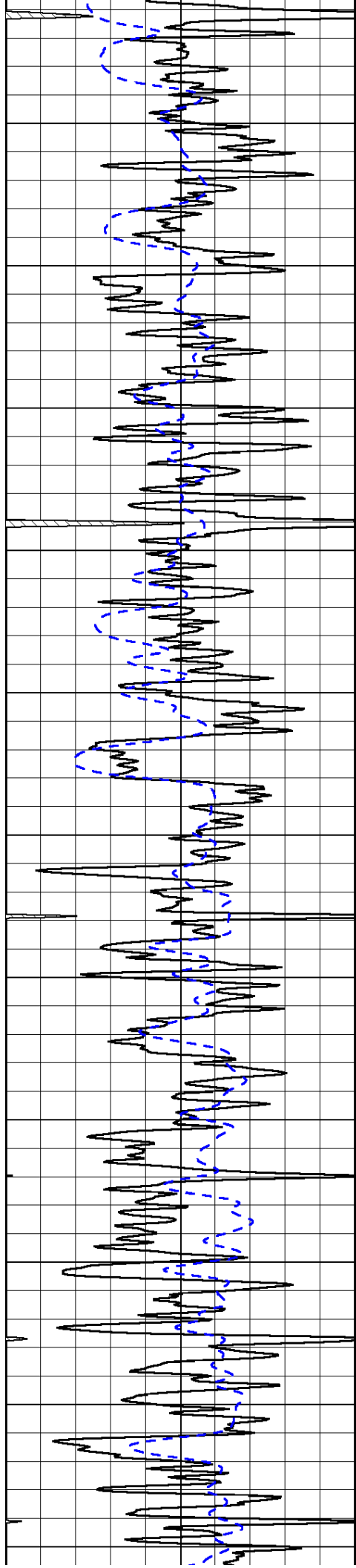


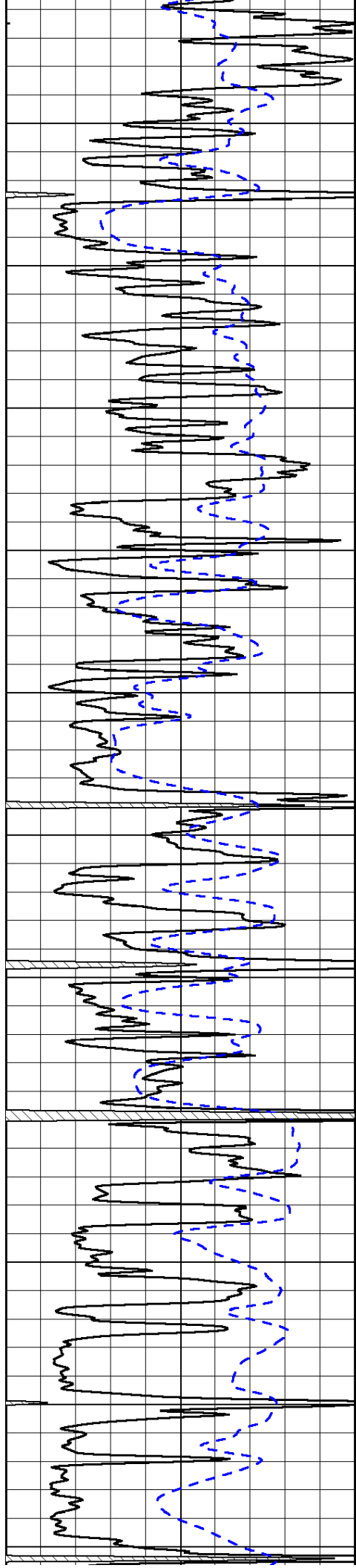
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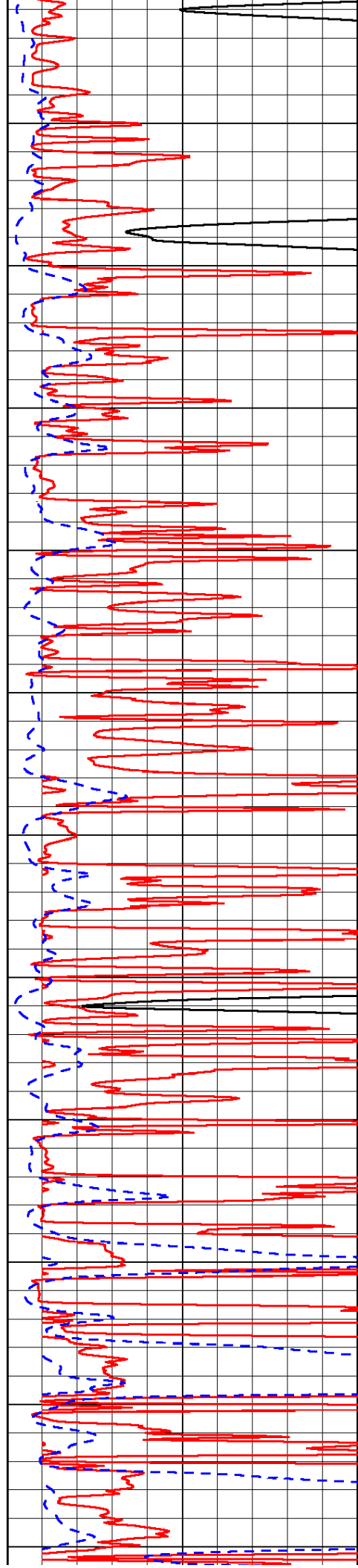
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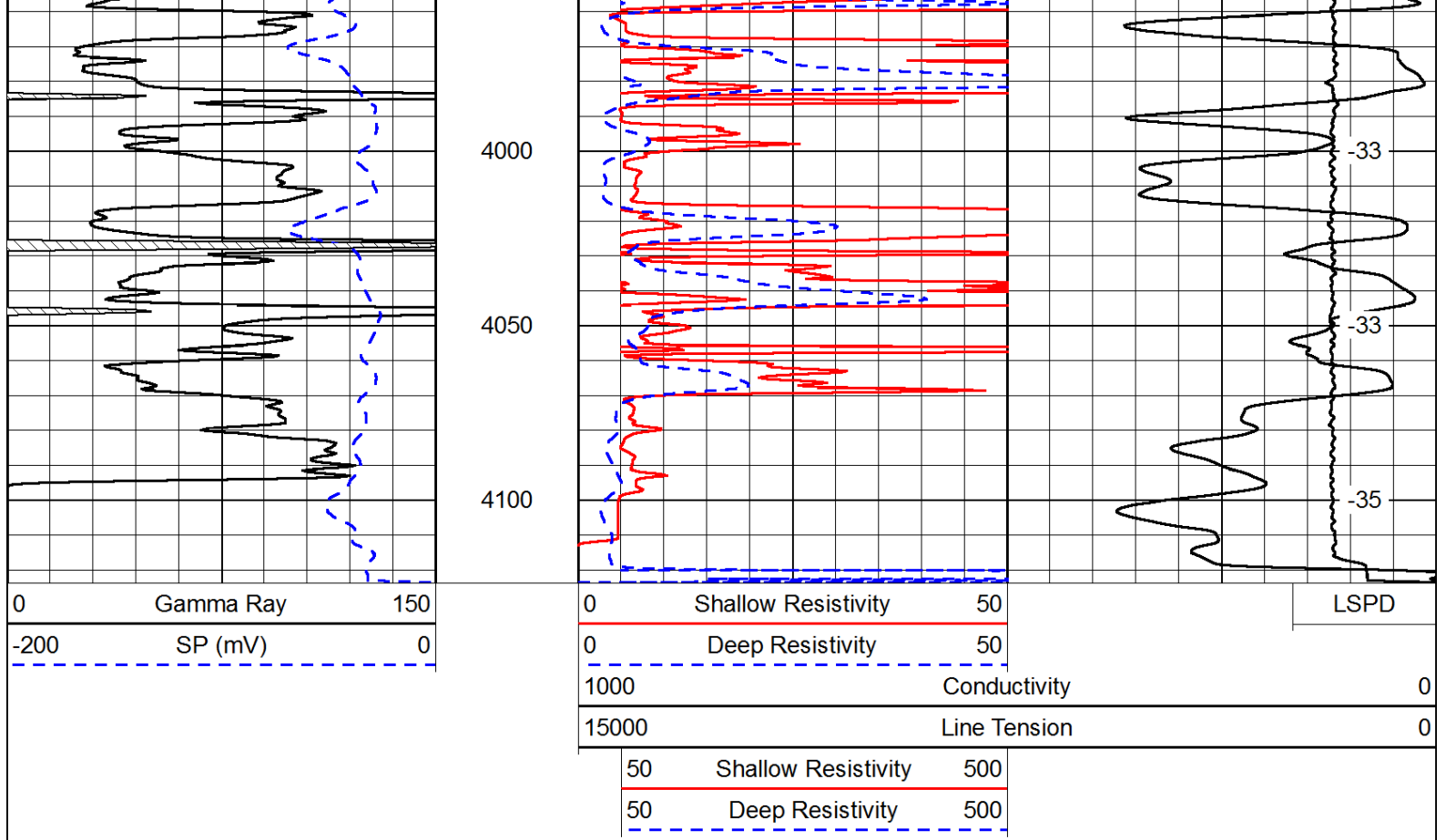
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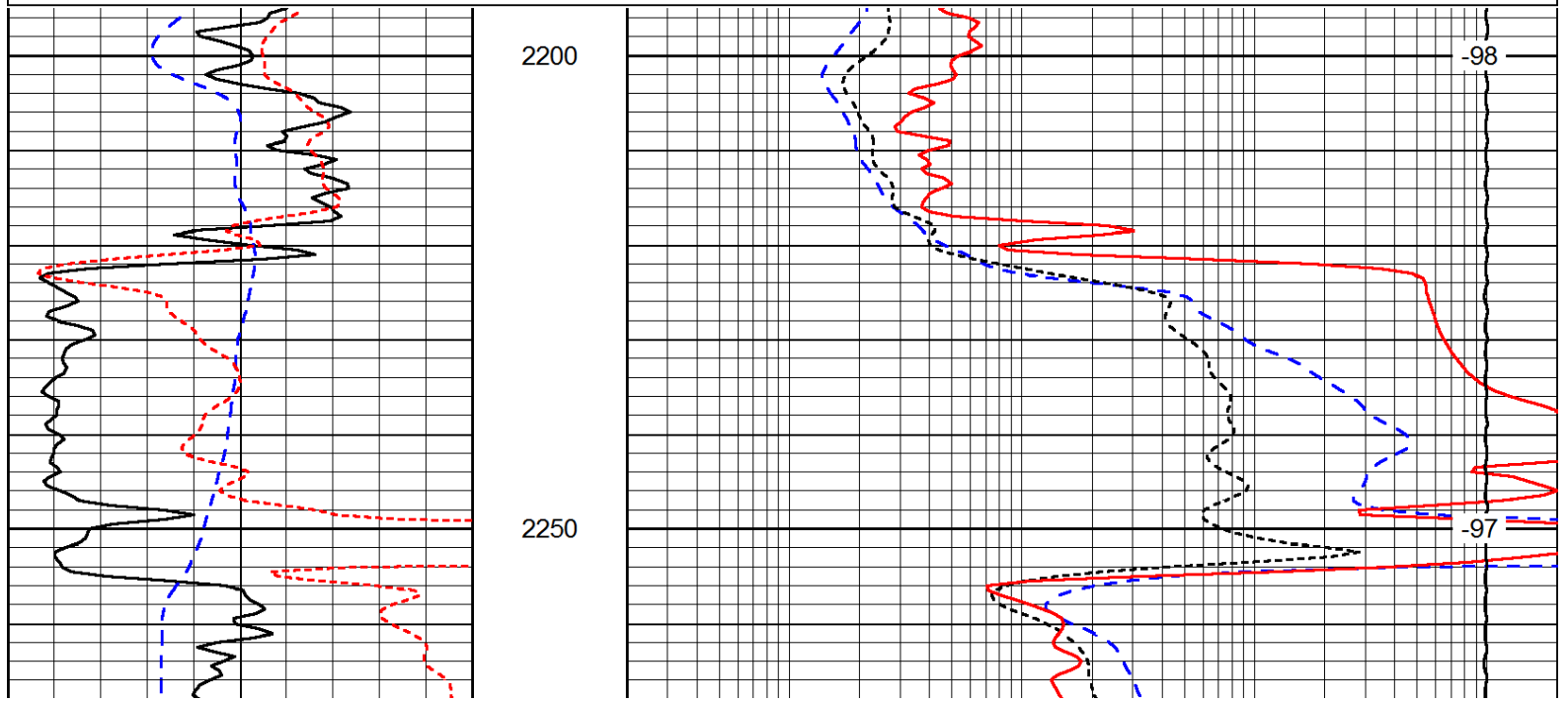
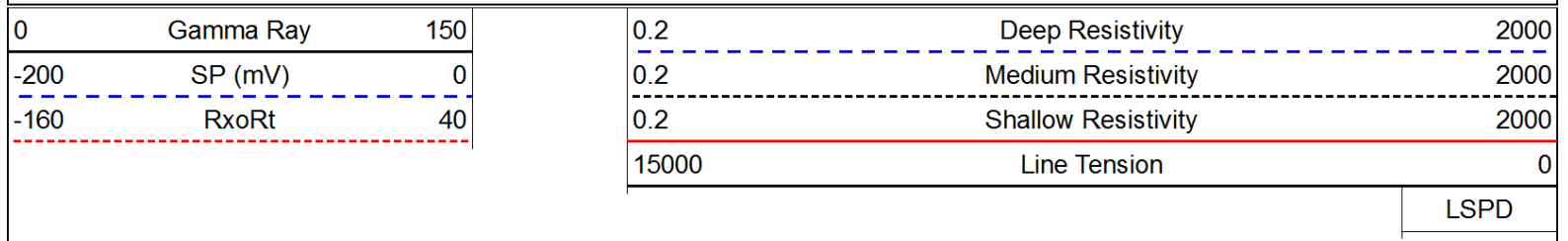
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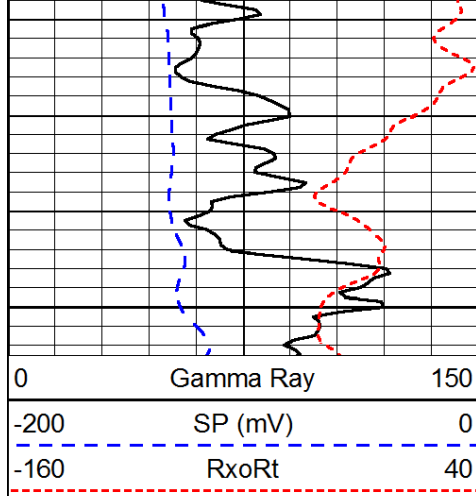
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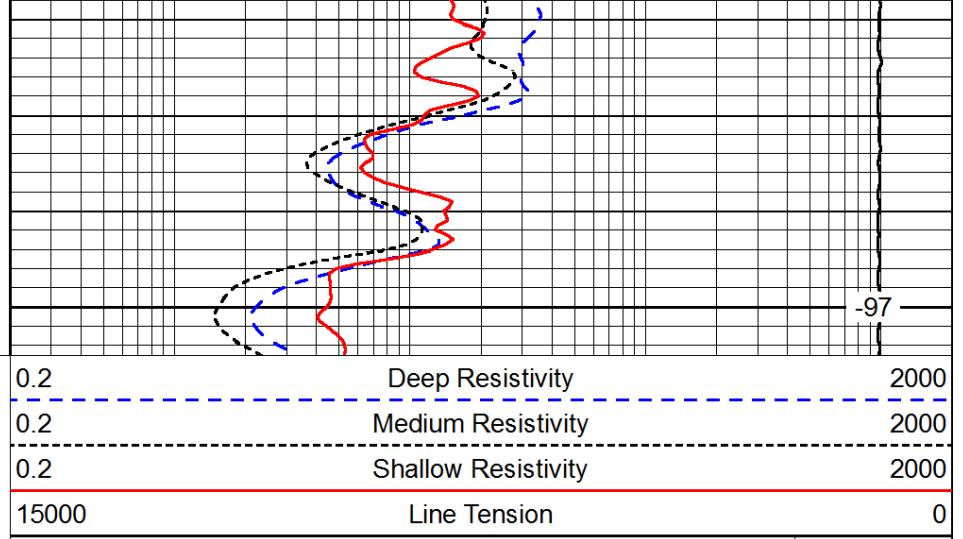


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 Presentation Format: dil
 Dataset Creation: Fri Jul 12 08:30:59 2013
 Charted by: Depth in Feet scaled 1:240



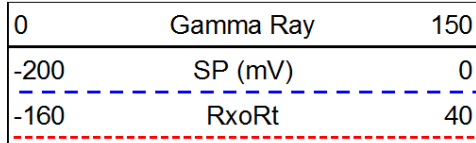


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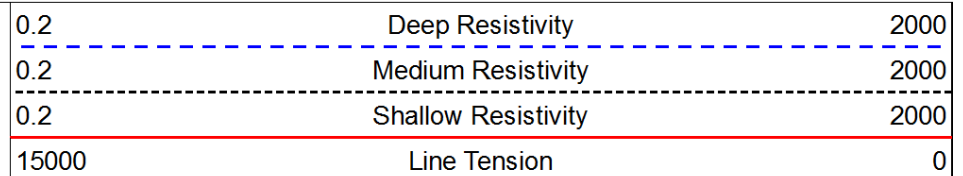


LSPD

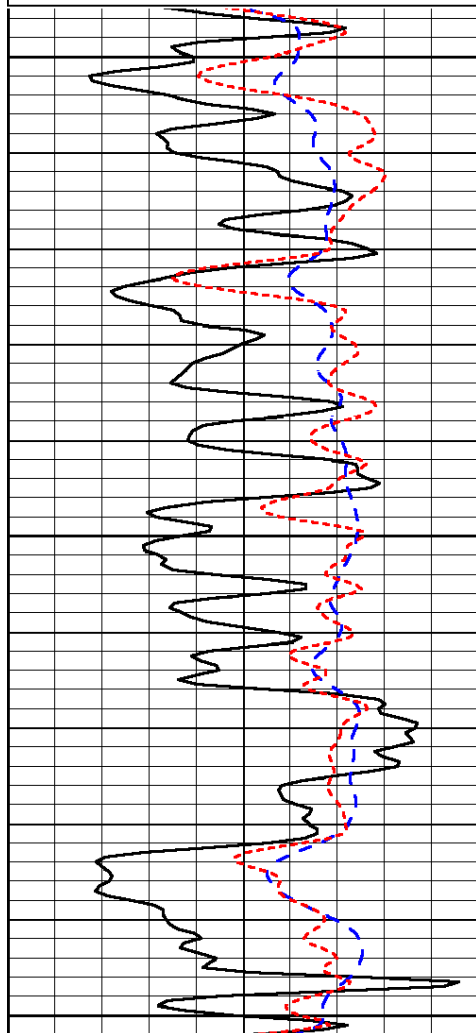
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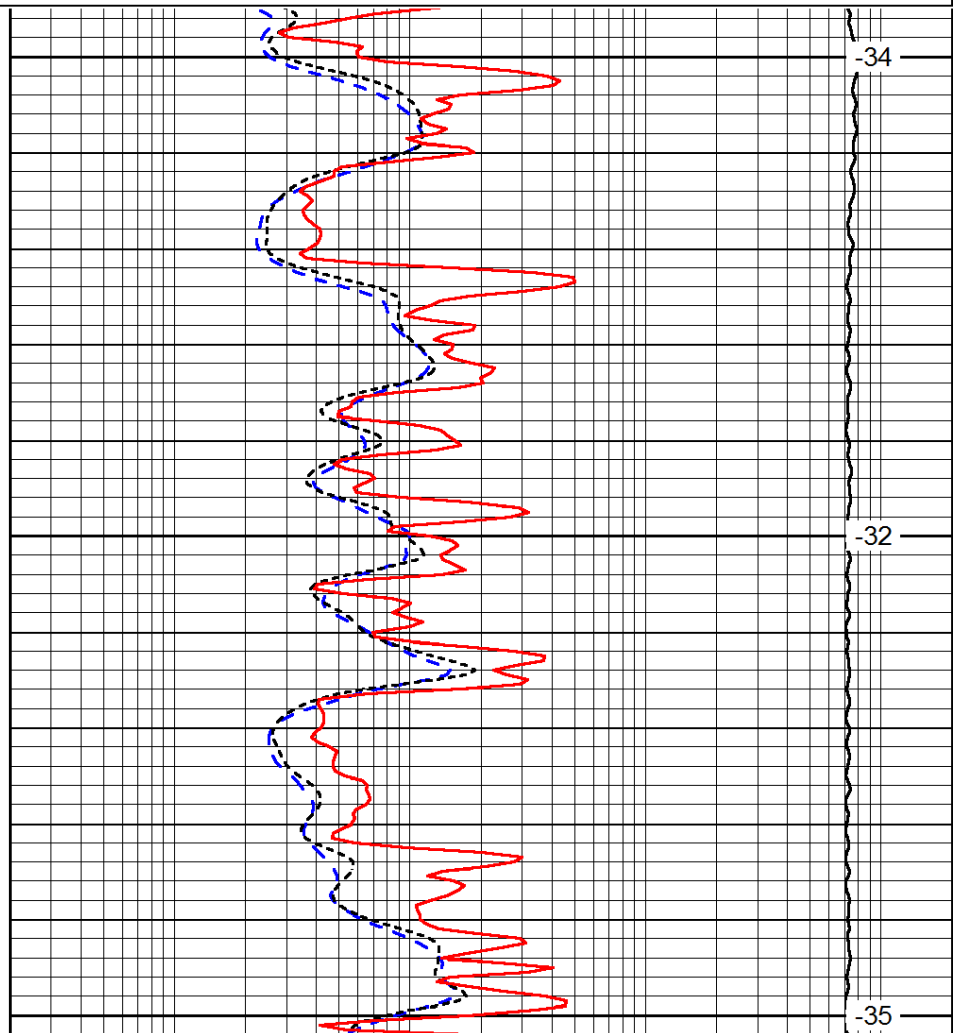
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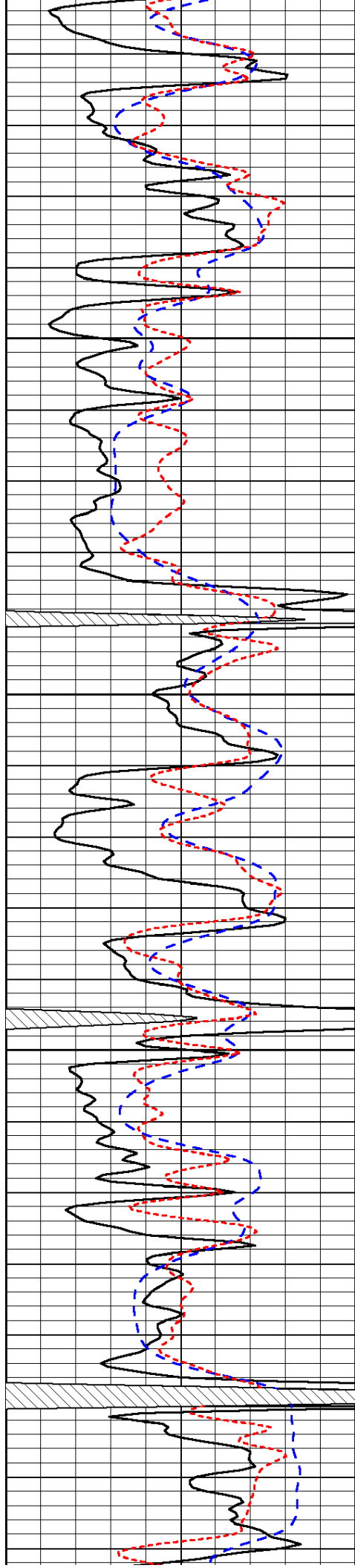
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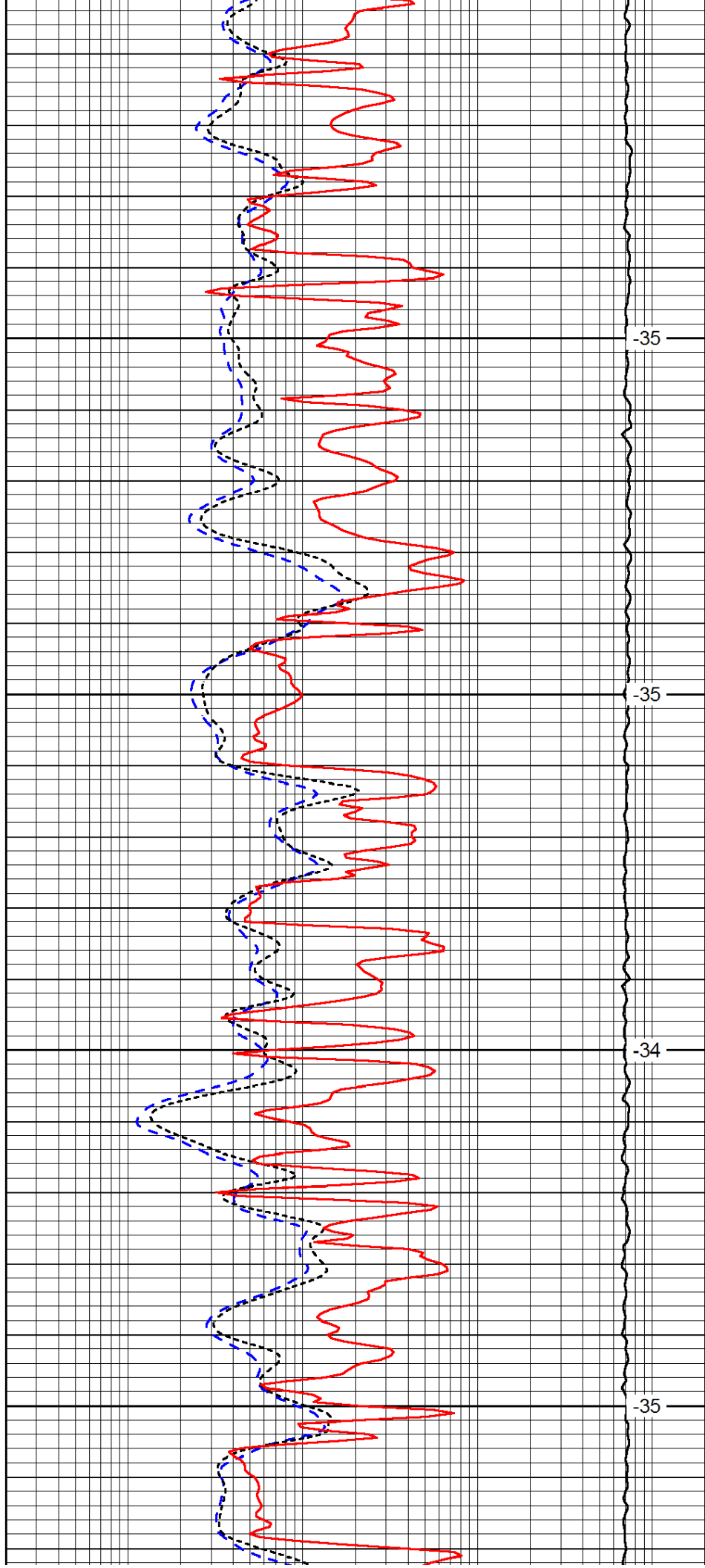


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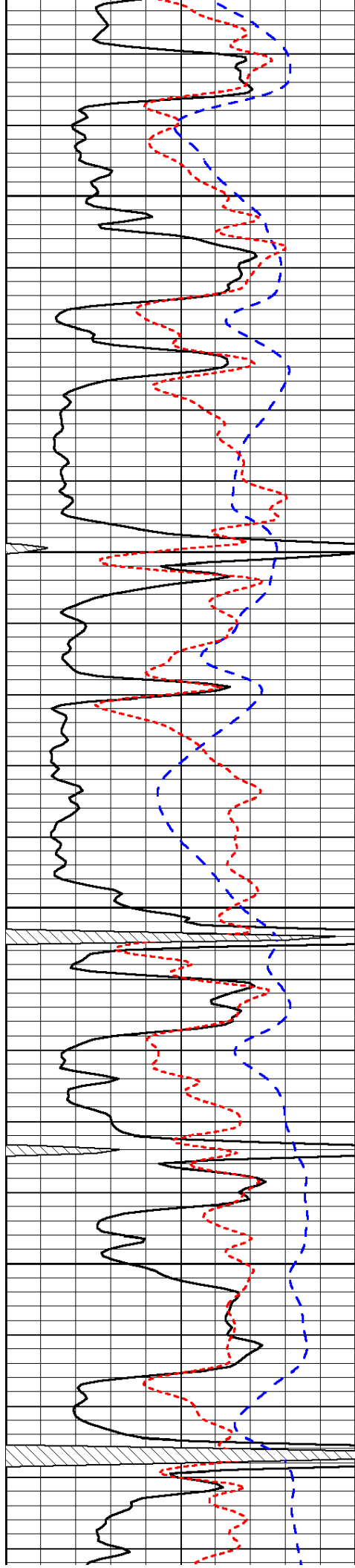


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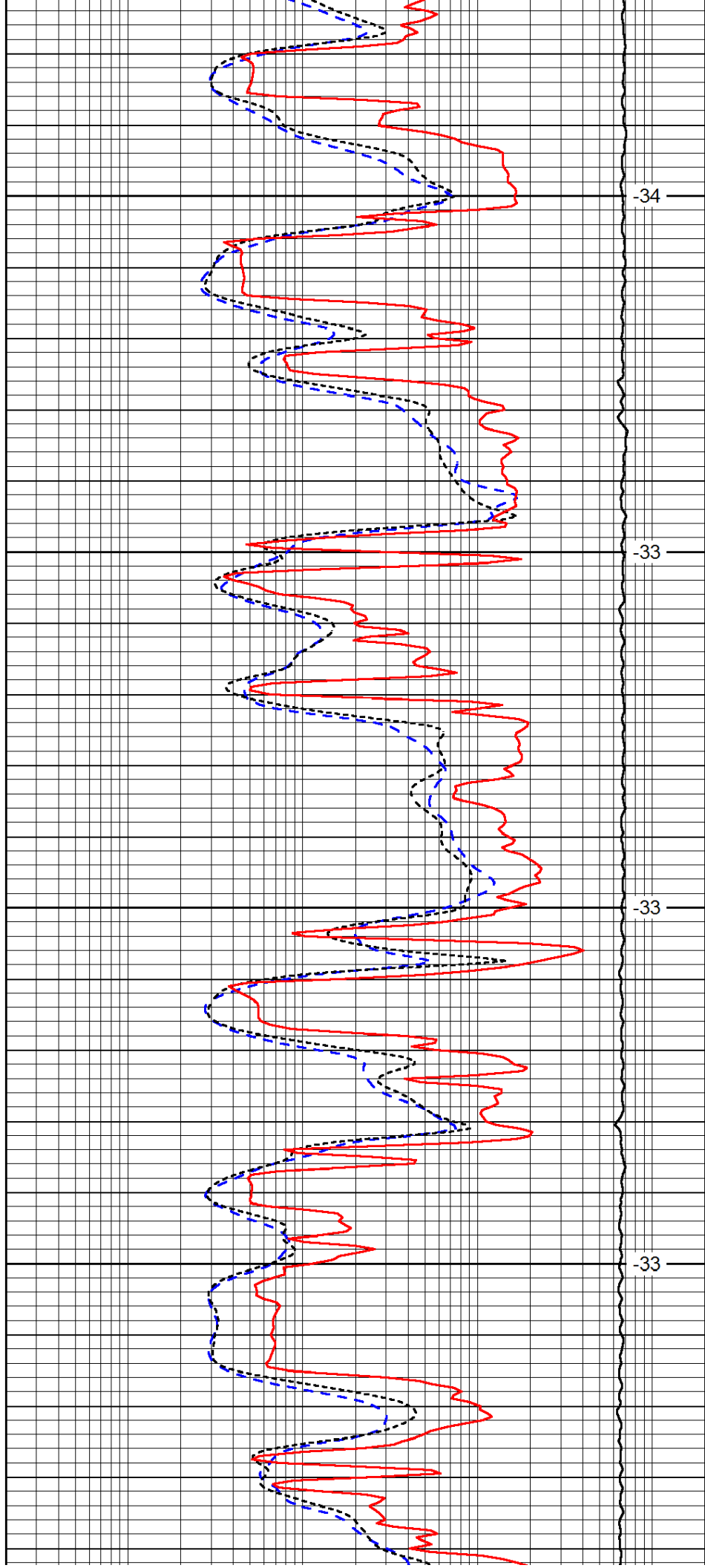


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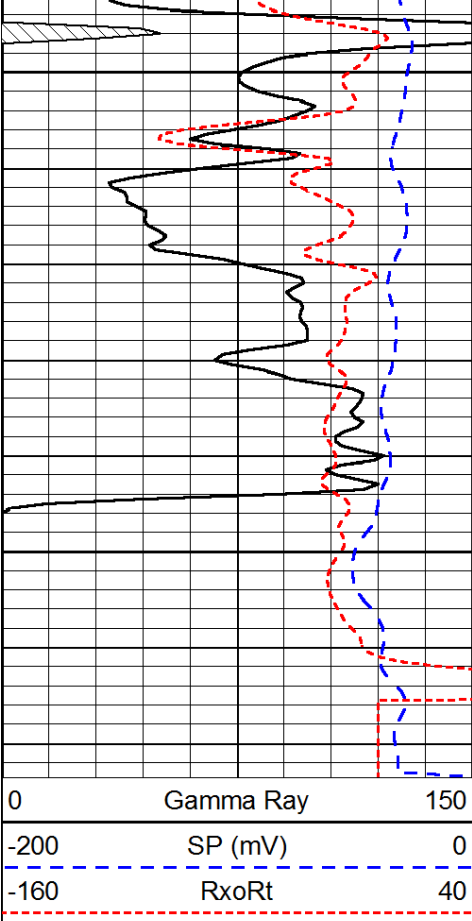


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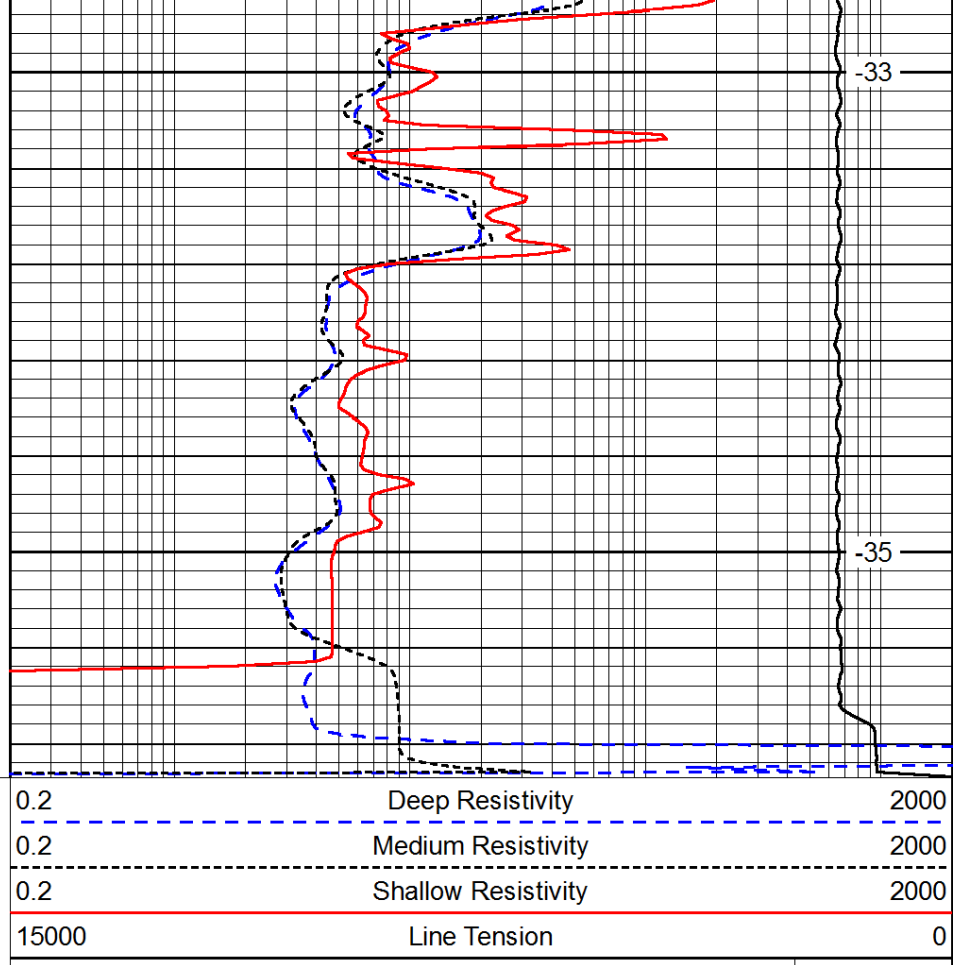
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LSPD