



Pioneer Energy Services

Dual Induction Log

API No.		Company TDI, Inc.	
15-051-26595-00-00		Well Younger #1	
		Field Wildcat	
		County Ellis State Kansas	
Location		SW NE NW SW 1985' FSL / 835' FWL	
Sec: 7 Twp: 15S Rge: 19W		Other Services CNL / CDL MEL	
Permanent Datum Ground Level		Elevation 2006	
Log Measured From Kelly Bushing		10 Ft. Above Perm. Datum	
Drilling Measured From Kelly Bushing		K.B. 2016 D.F. 2006 G.L. 2006	
Date	11/1/2013		
Run Number	One		
Depth Driller	3700		
Depth Logger	3698		
Bottom Logged Interval	3697		
Top Log Interval	1250		
Casing Driller	8.625 @ 1269		
Casing Logger	1262		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2800		
Density / Viscosity	9.1 48		
pH / Fluid Loss	11.0 6.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.46 @ 60		
Rmf @ Meas. Temp	0.35 @ 60		
Rmc @ Meas. Temp	0.62 @ 60		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.24 @ 113		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	113		
Equipment Number	17		
Location	Hays		
Recorded By	R. Barnhart		
Witnessed By	Herb Deines	Tom Denning	

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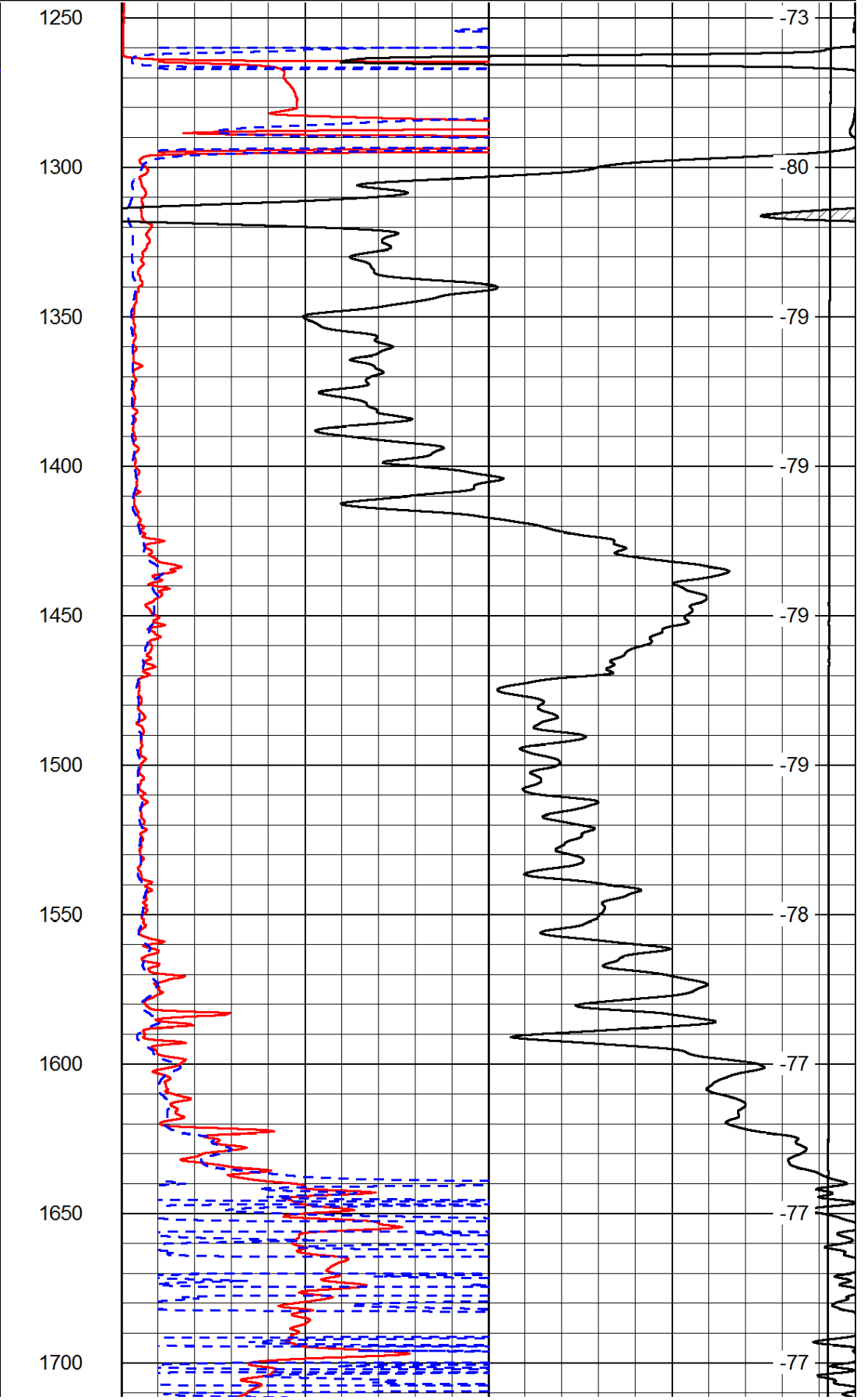
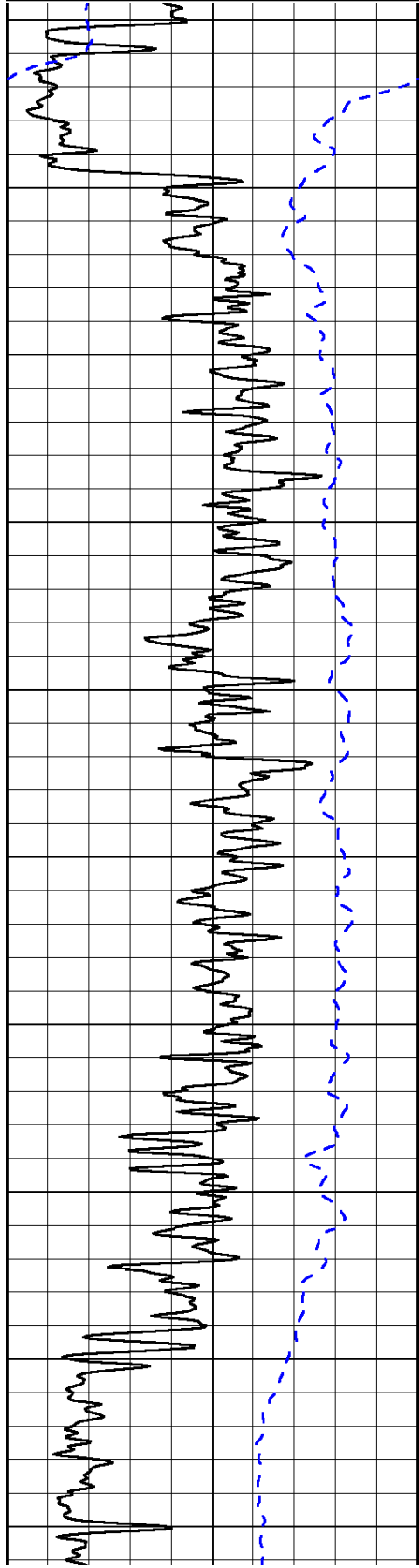
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

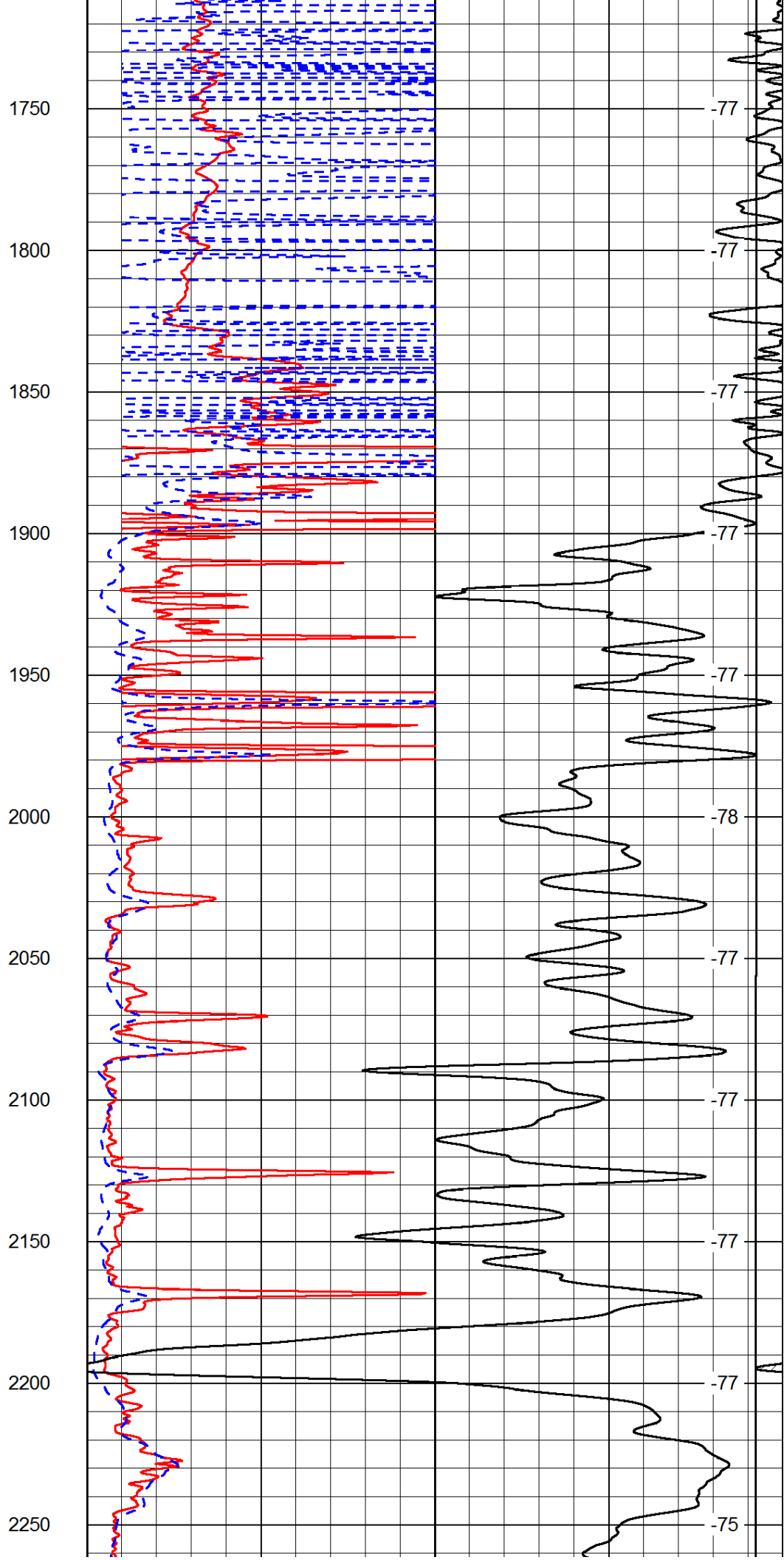
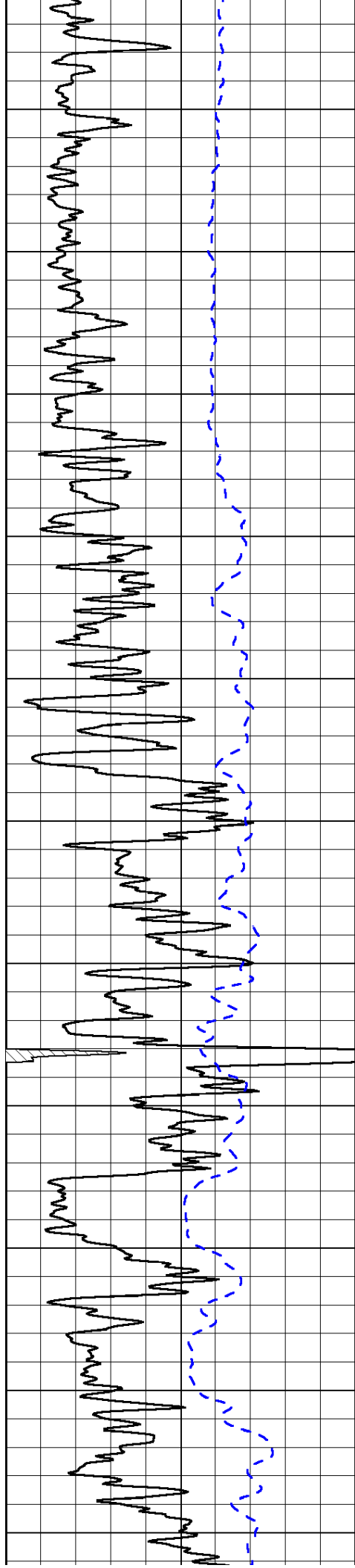
Comments

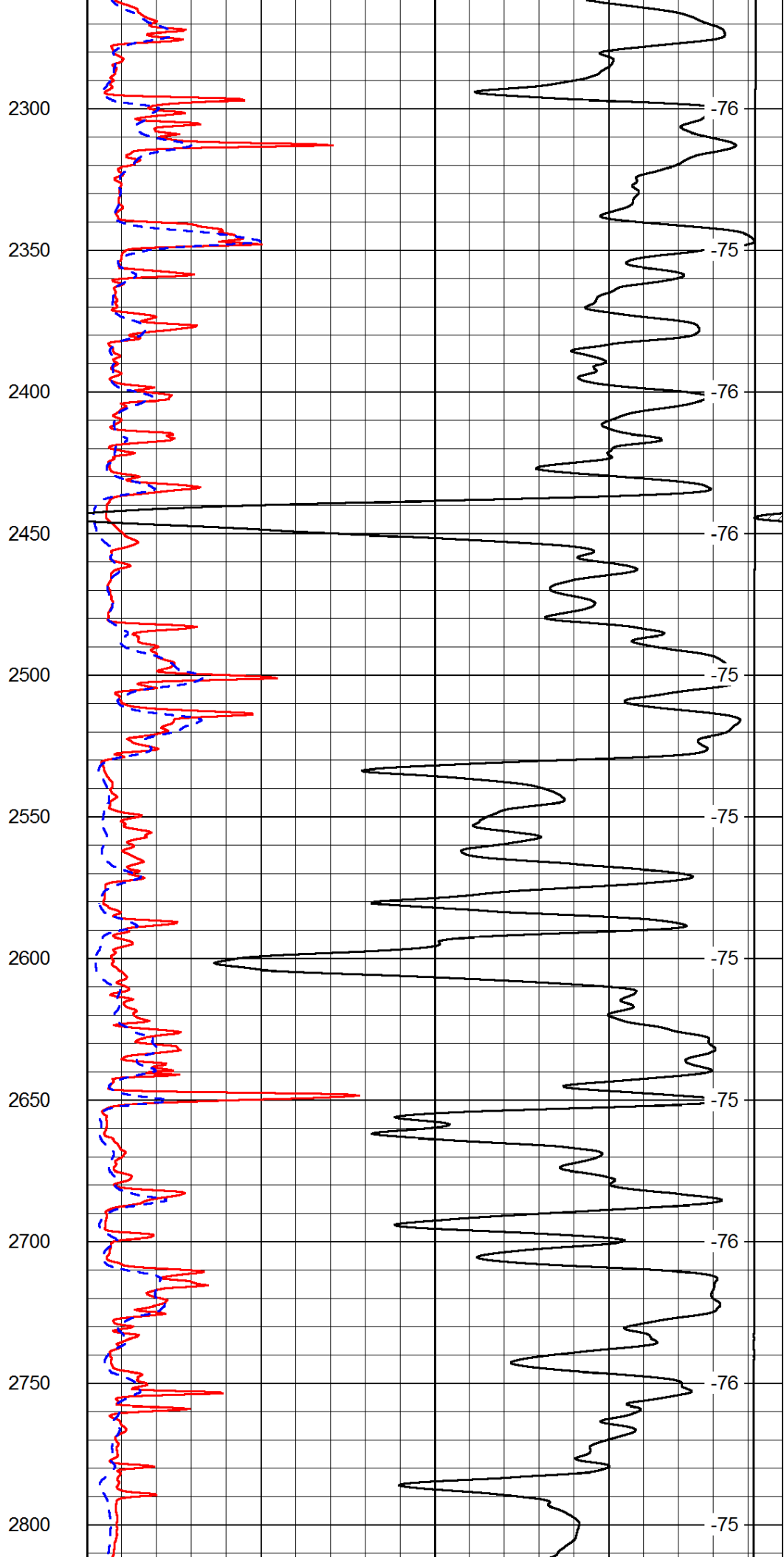
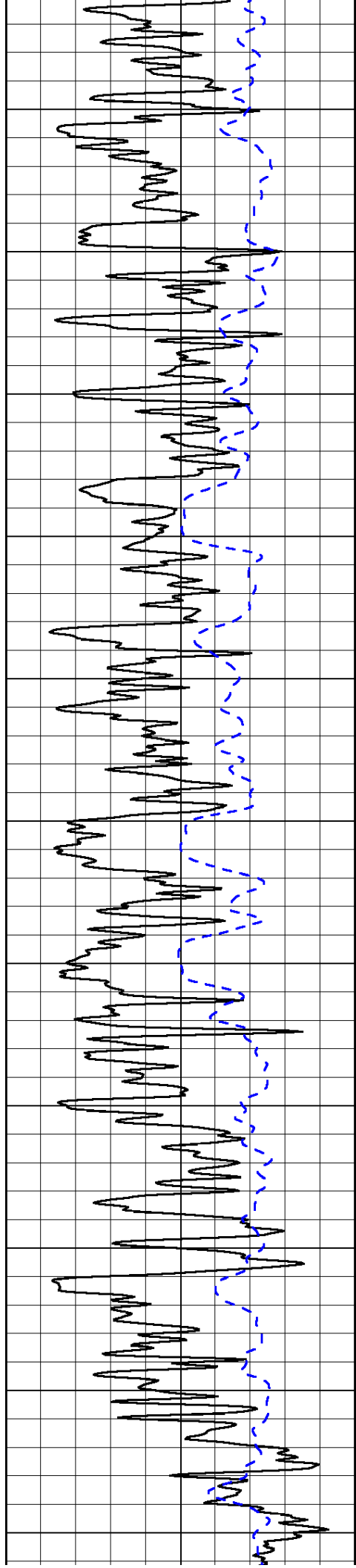
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

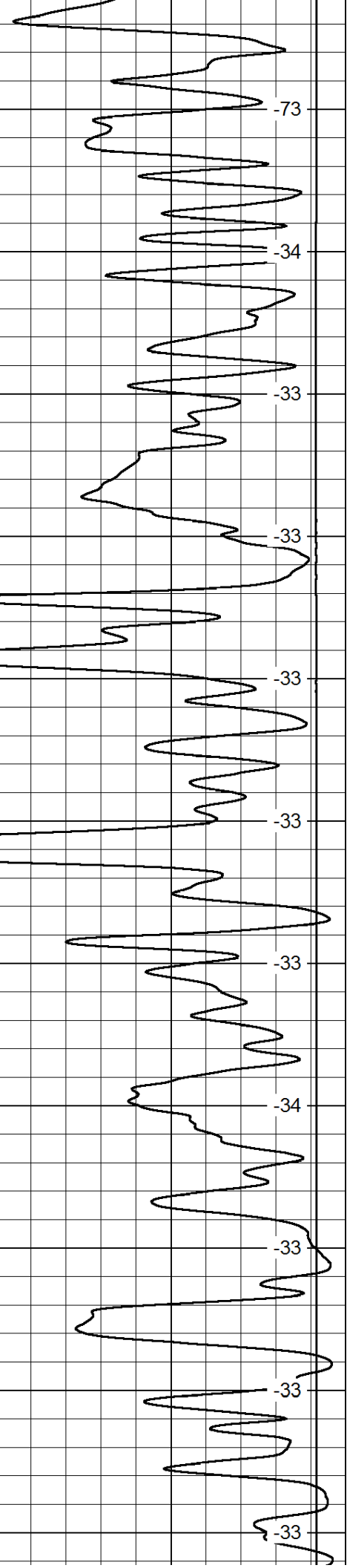
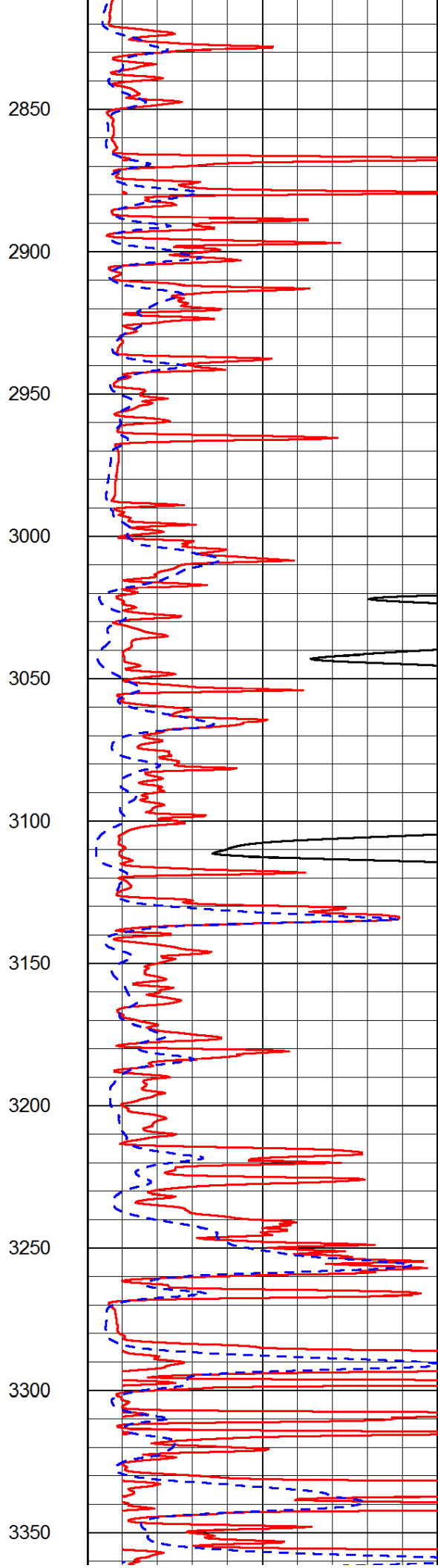
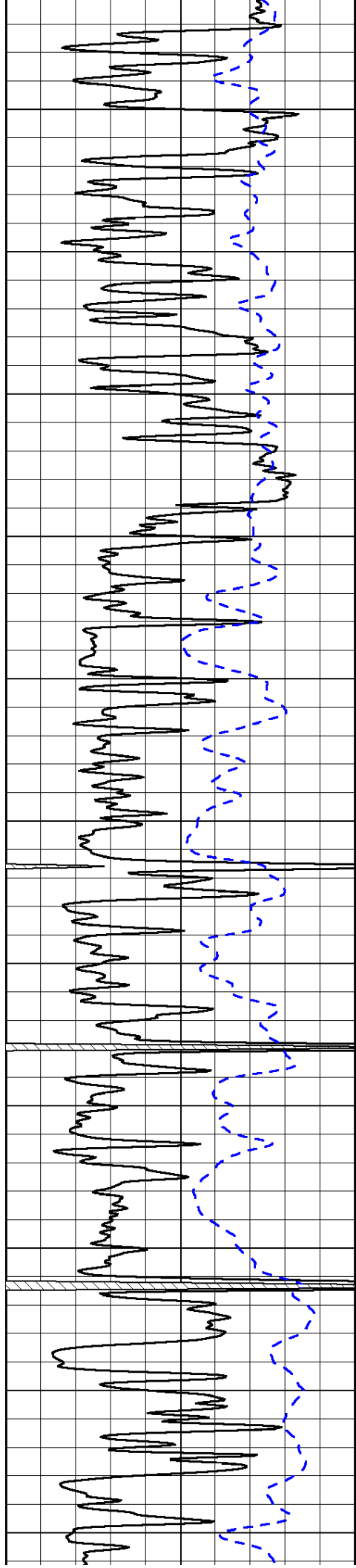
Antonino, KS:
5W, 1 1/2S, SE into

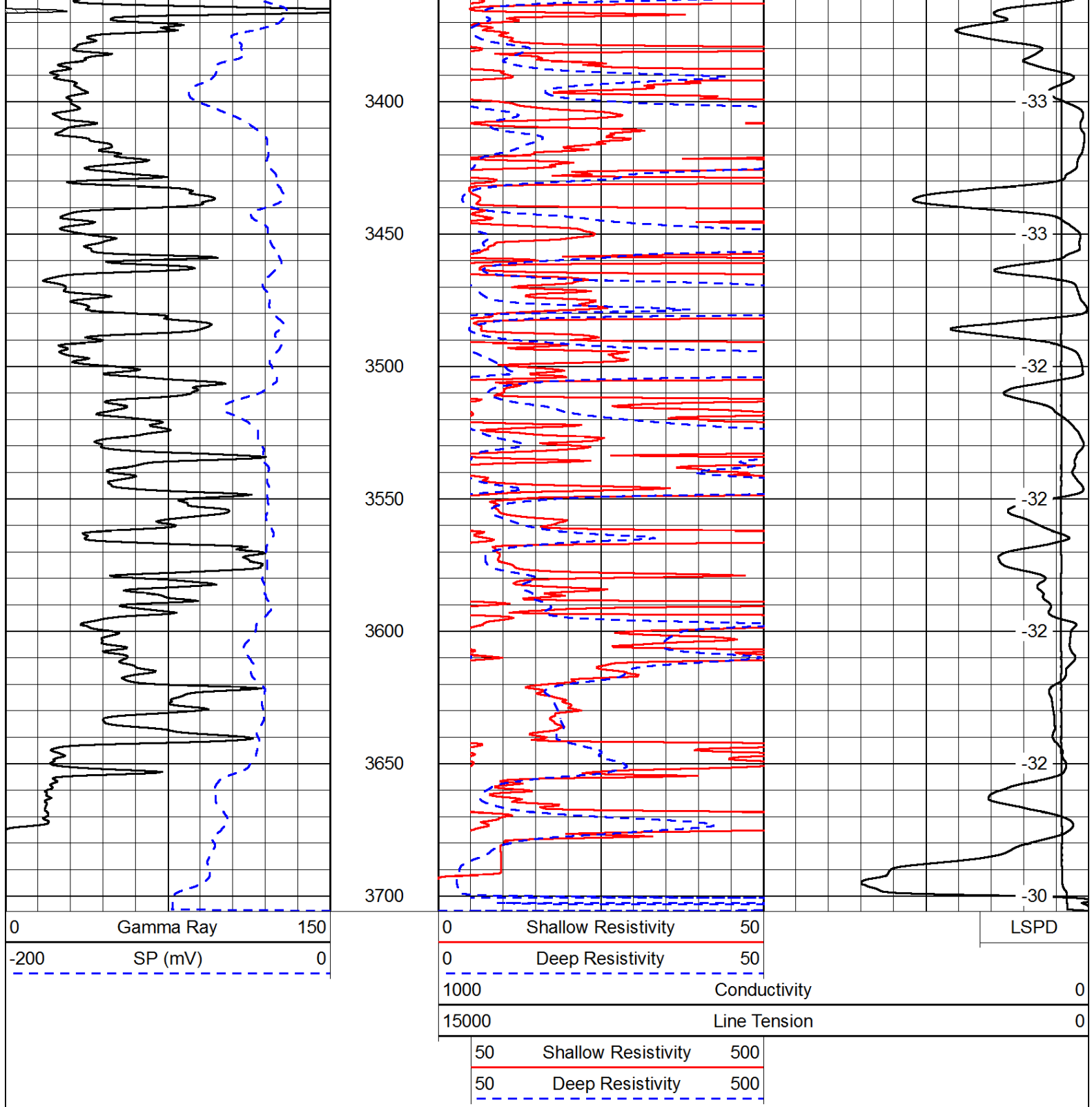
Charted by: _____ Depth in Feet scaled 1:1000								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			



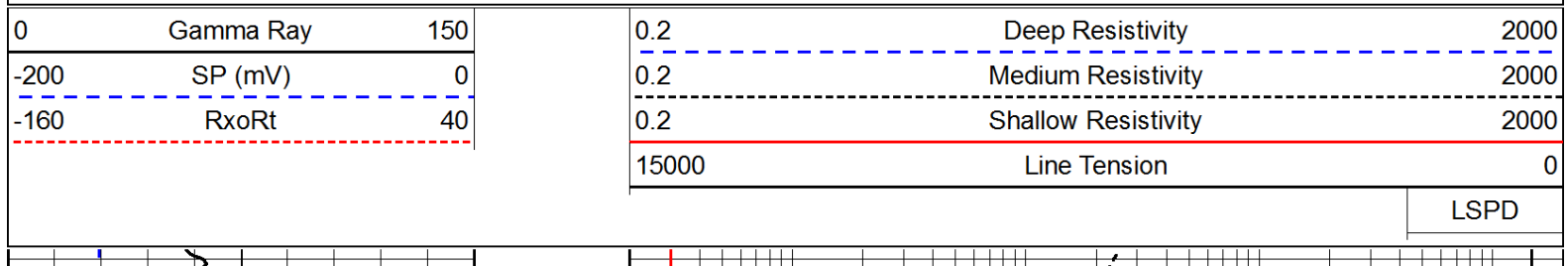


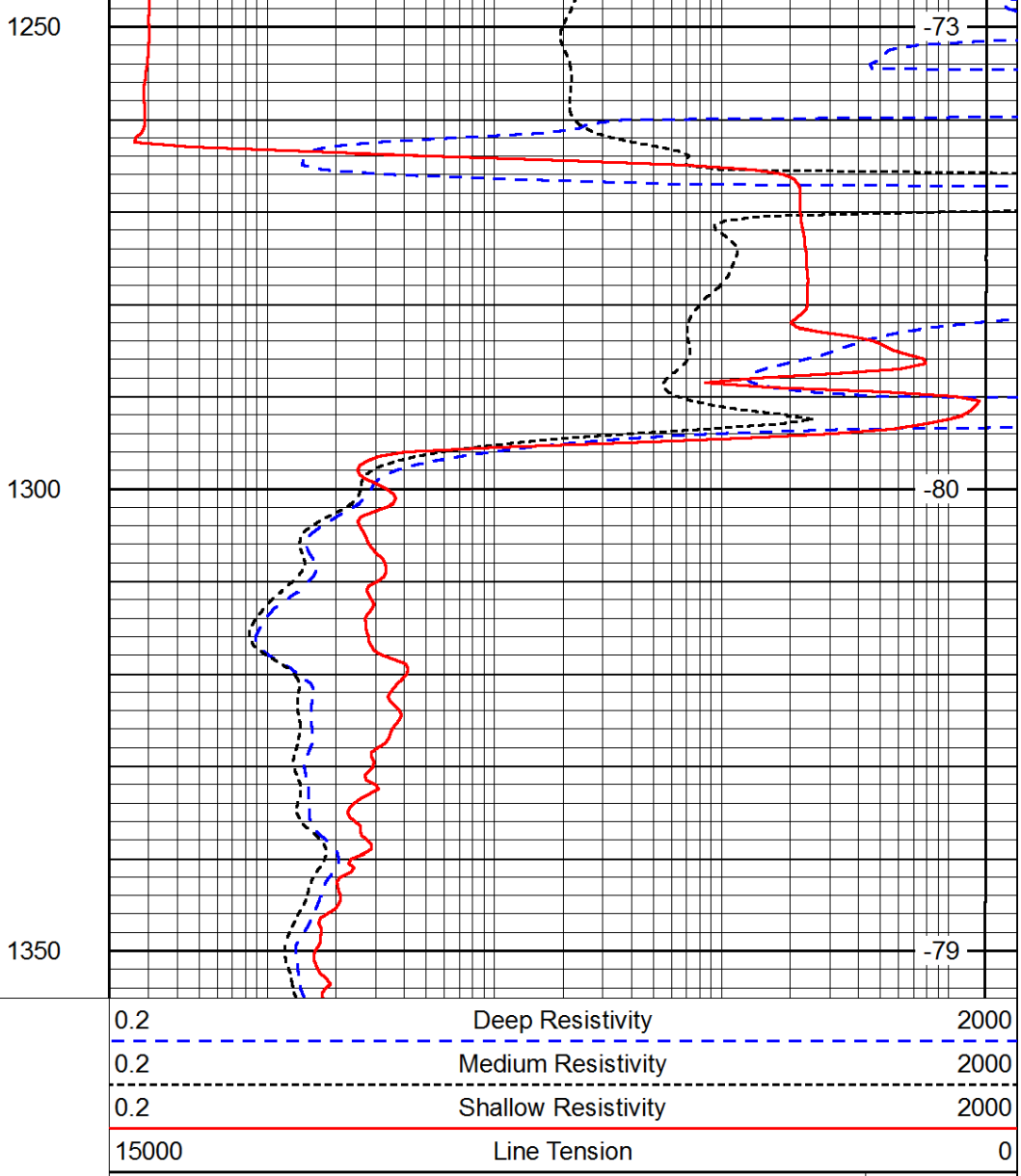
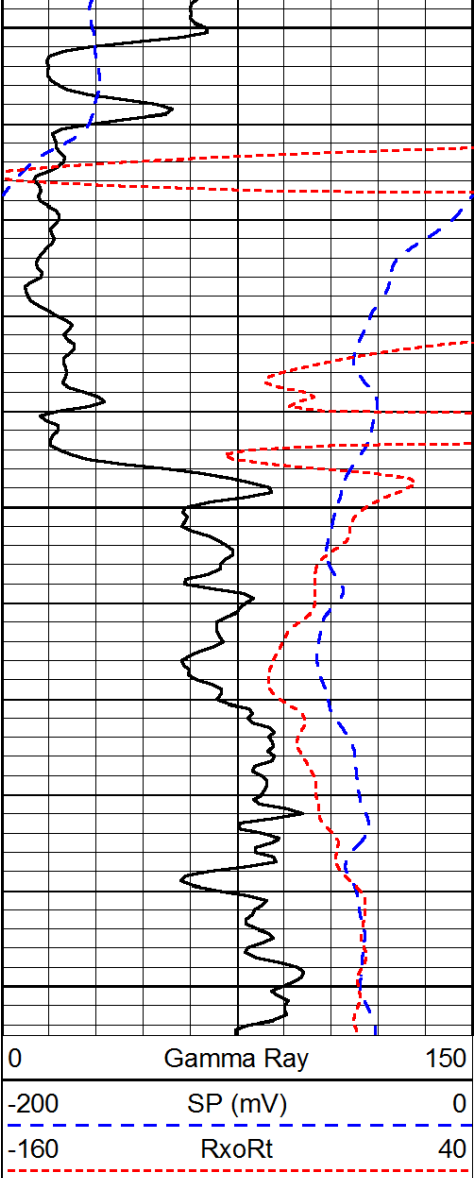






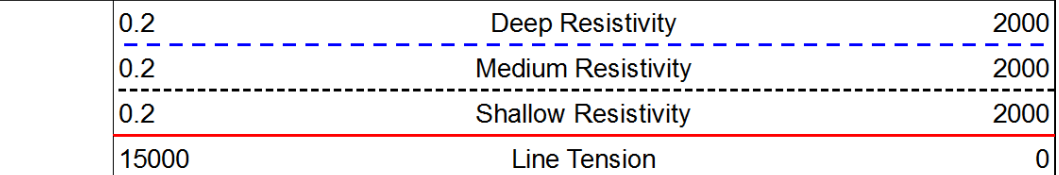
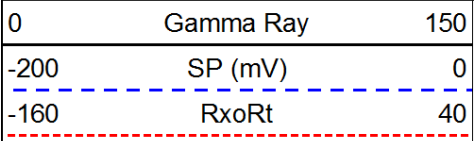
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Presentation Format: dil
Dataset Creation: Fri Nov 01 03:20:04 2013
Charted by: Depth in Feet scaled 1:240



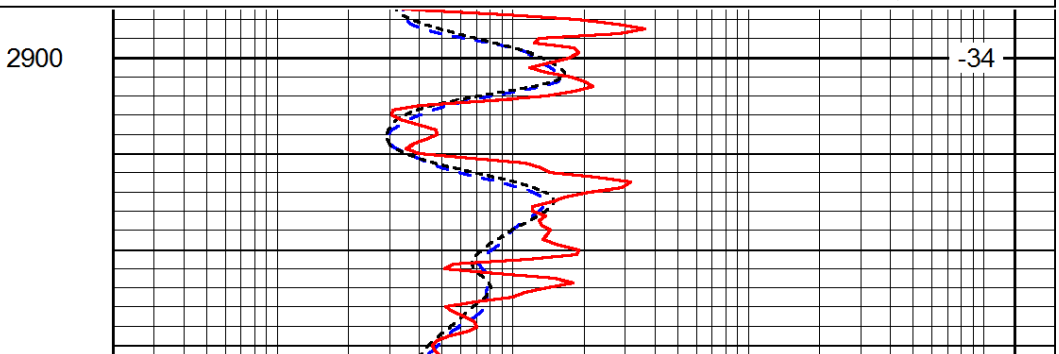
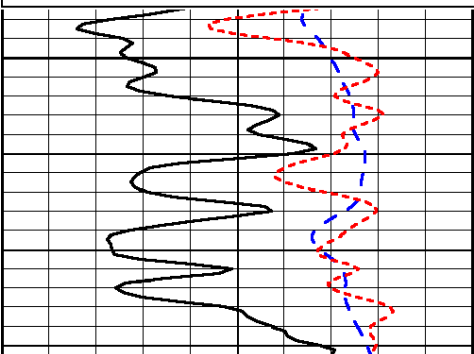


LSPD

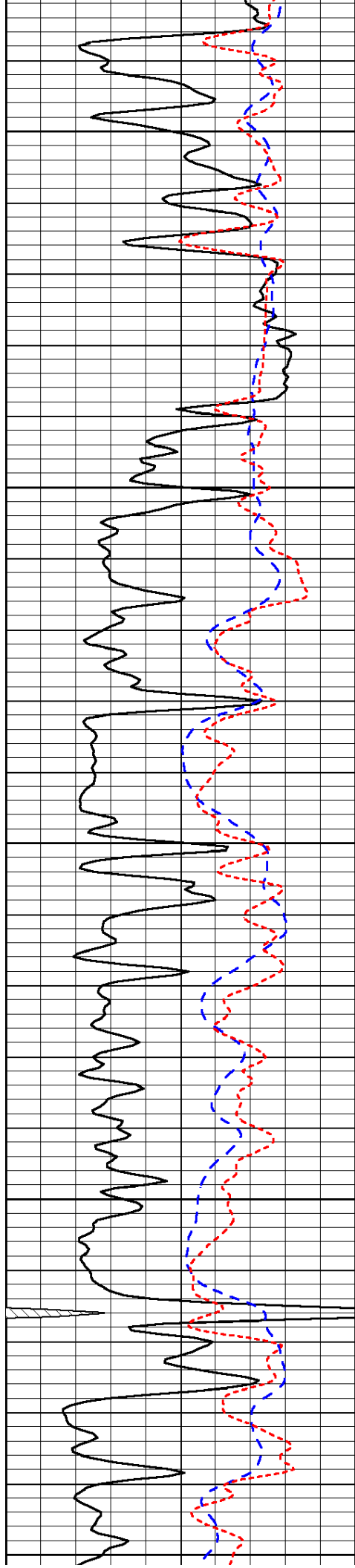
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LSPD



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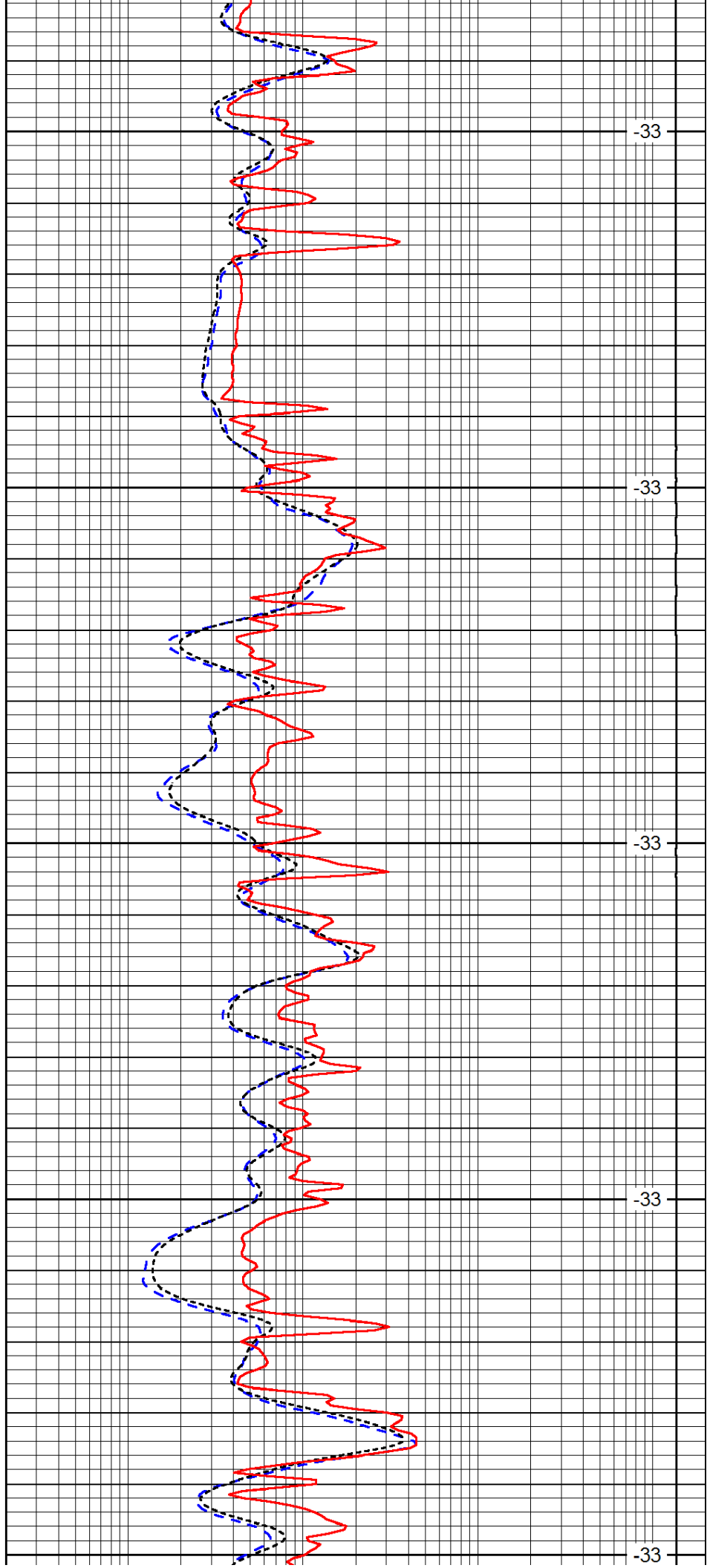
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3050

3100

3150



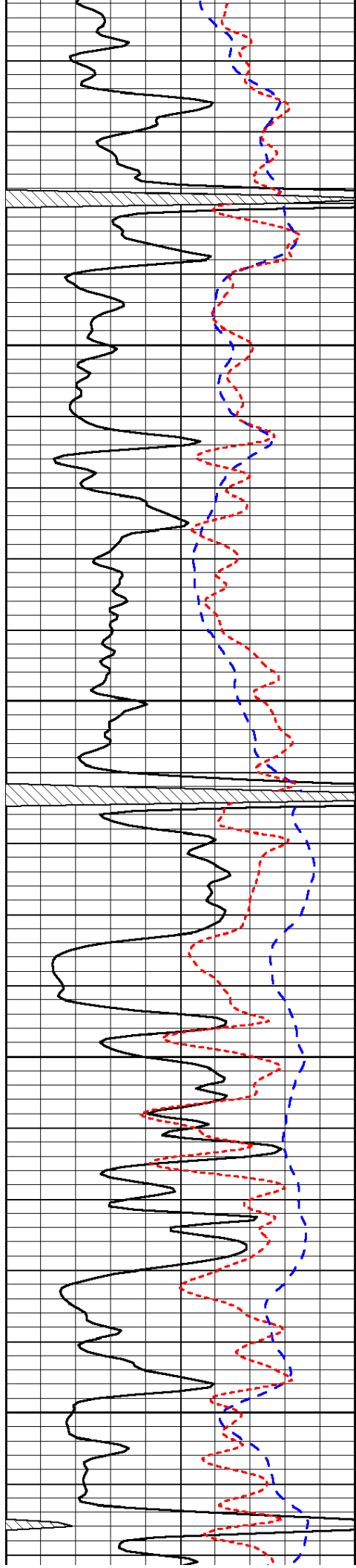
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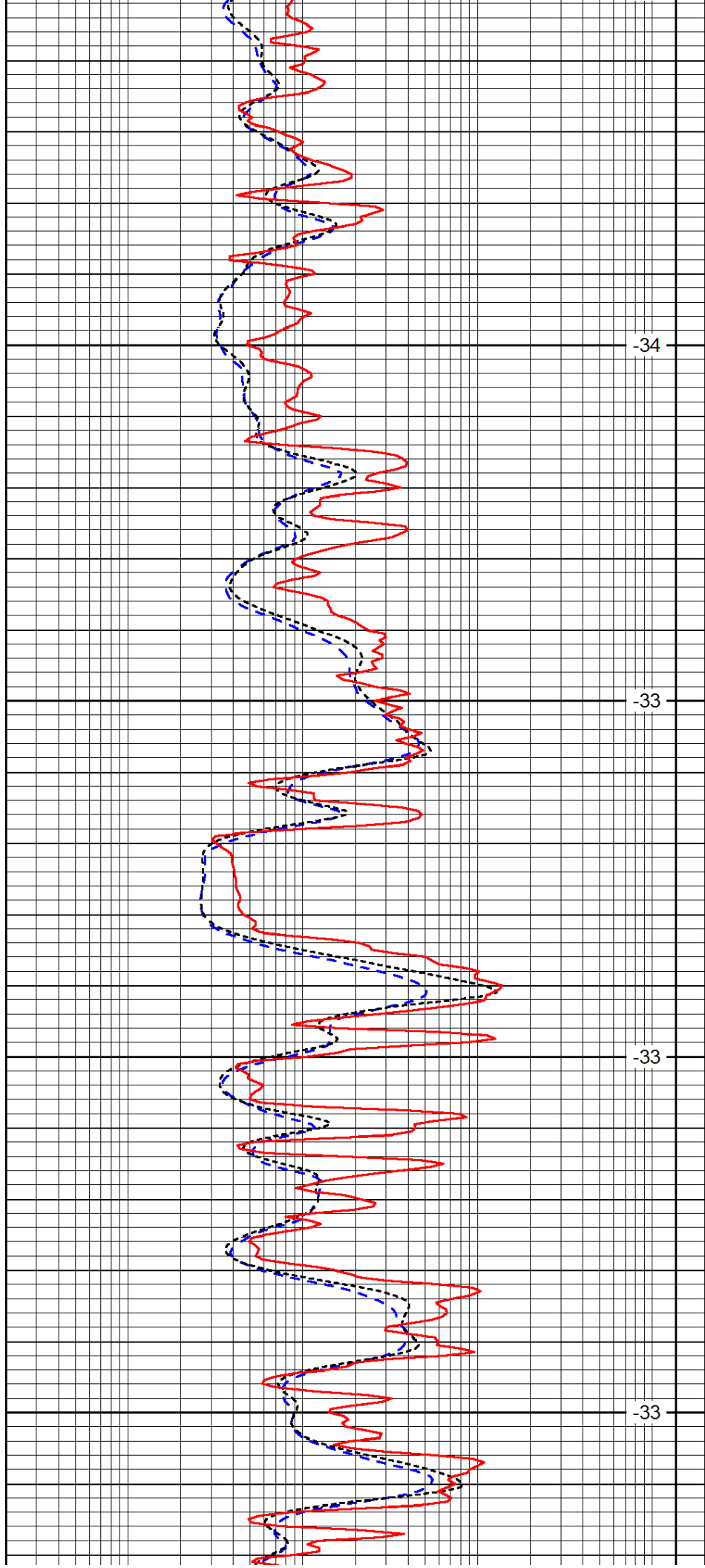


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3250

3300

3350

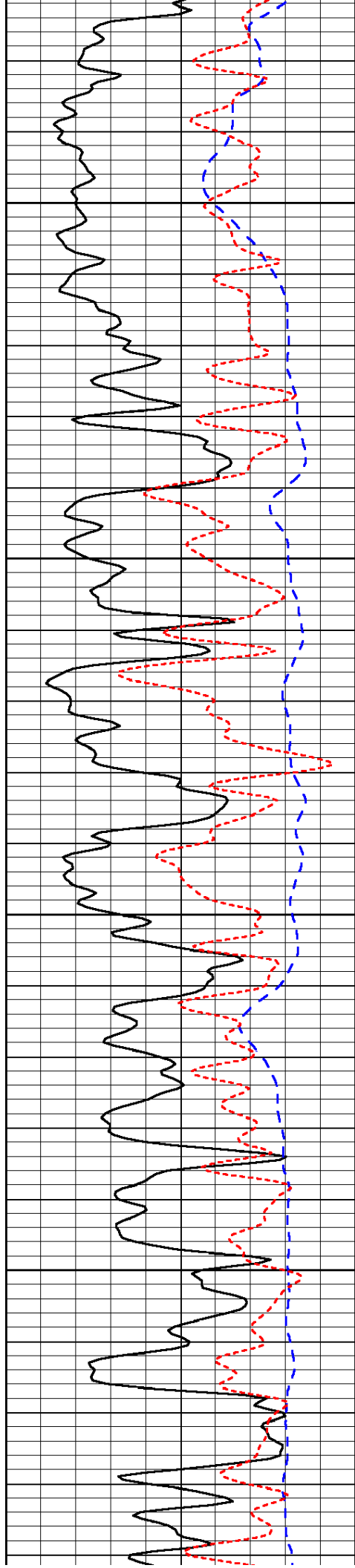


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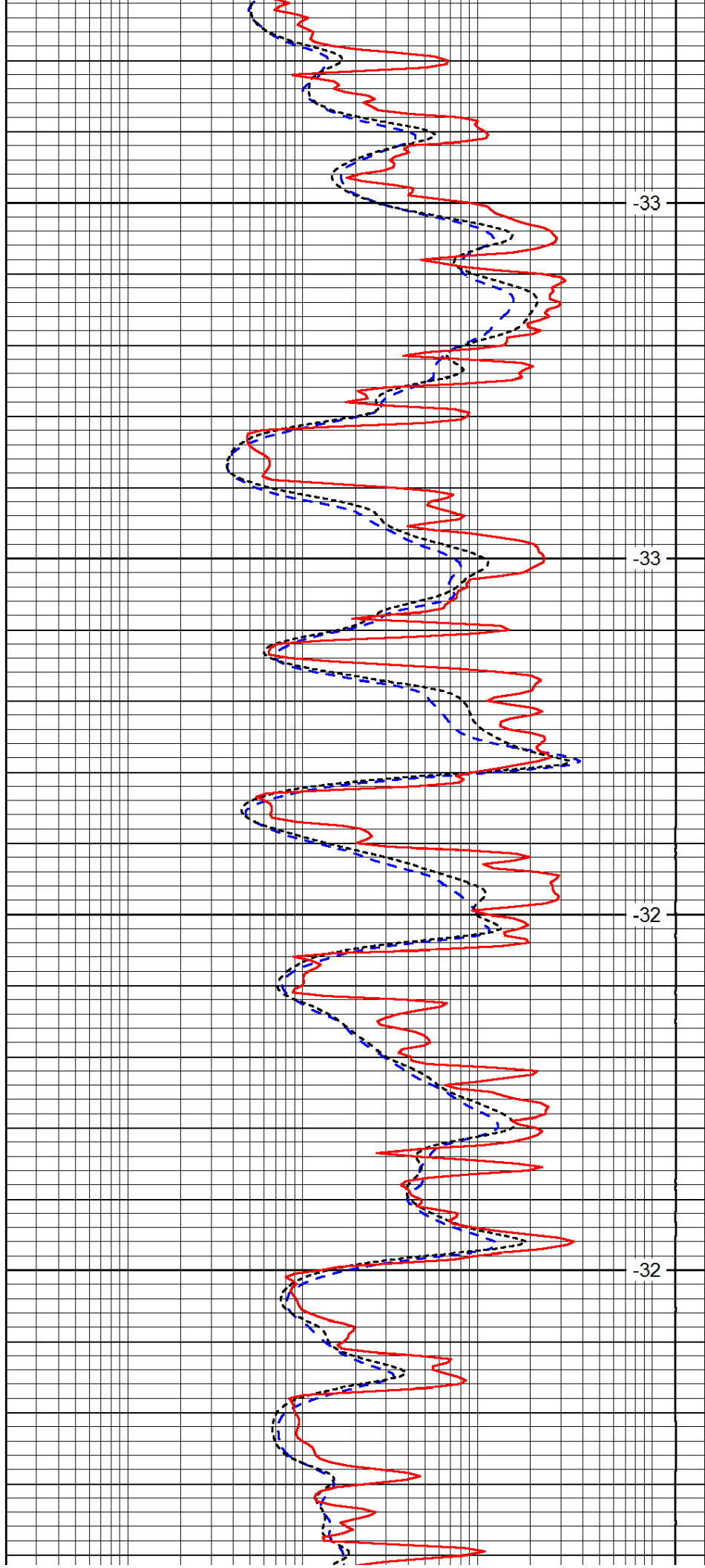


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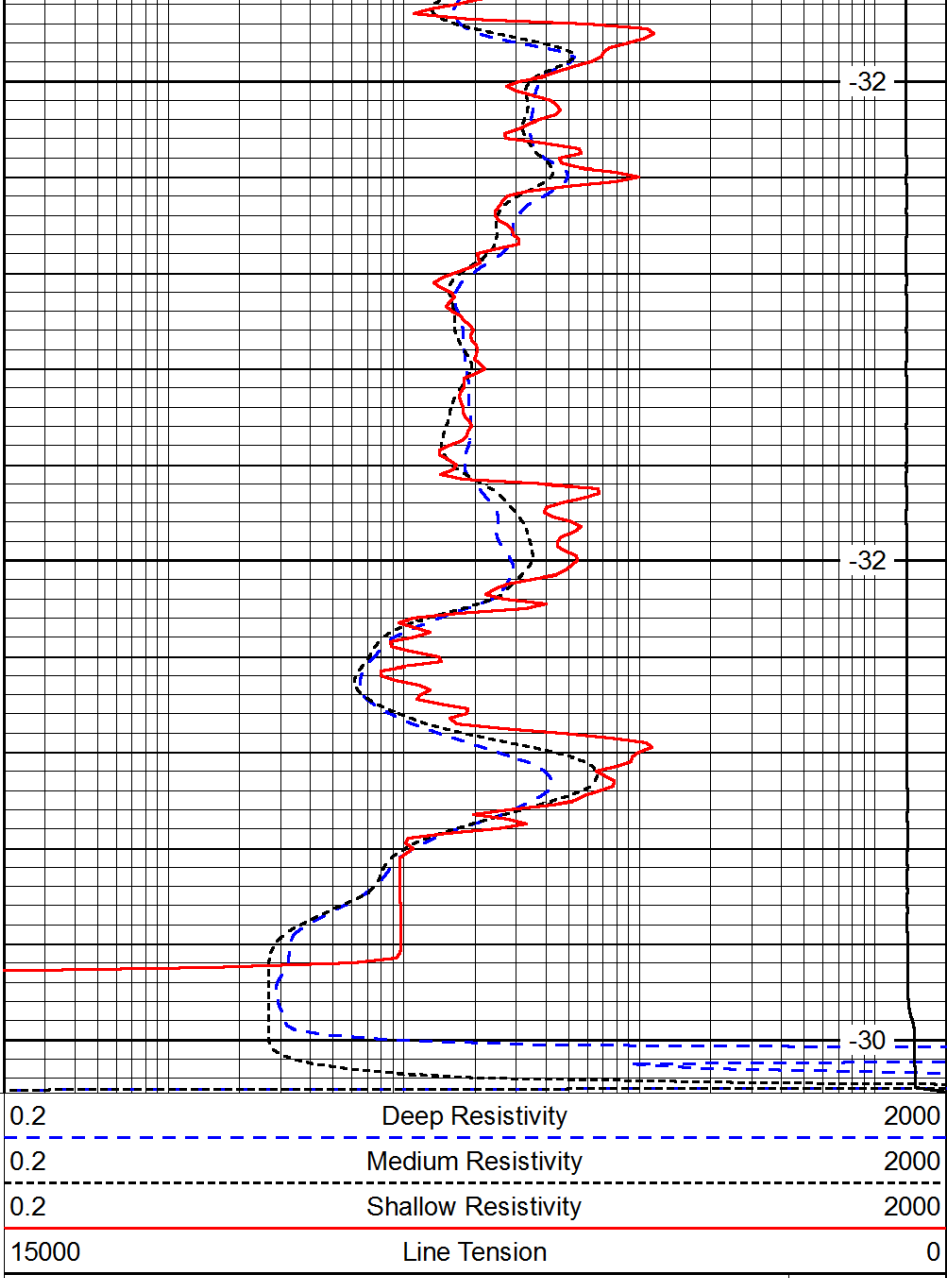
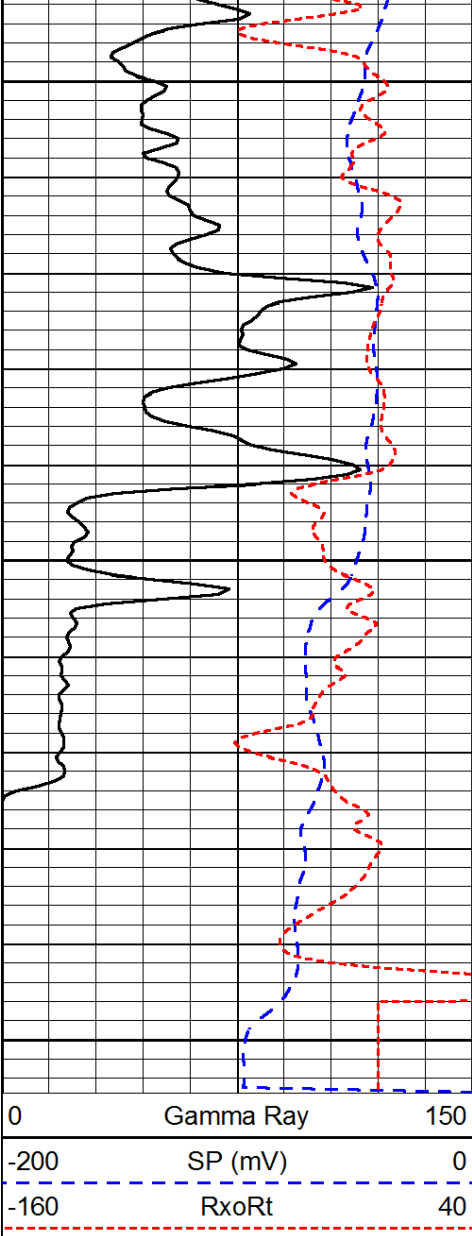


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LSPD