



Dual Induction Log

Pioneer Energy Services

API No.		Company		Bach Oil Production	
15-147-20,698-00-00		Well		Christensen No.1	
		Field		Wildcat	
		County		Phillips State Kansas	
Location		1400' FNL & 1010' FEL		Other Services CNL/CDL	
Sec: 12		Twp: 1S		Rge: 19W	
Permanent Datum		Ground Level		Elevation 2049	
Log Measured From		Kelly Bushing		5 Ft. Above Perm. Datum	
Drilling Measured From		Kelly Bushing		K.B. 2054 D.F. 2049 G.L. 2049	
Date	11/17/2012				
Run Number	One				
Depth Driller	3550				
Depth Logger	3556				
Bottom Logged Interval	3555				
Top Log Interval	200				
Casing Driller	8.625 @ 210				
Casing Logger	209				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	800				
Density / Viscosity	8.8 62				
pH / Fluid Loss	10.5 7.6				
Source of Sample	Flowline				
Rm @ Meas. Temp	1.2 @ 62				
Rmf @ Meas. Temp	.9 @ 62				
Rmc @ Meas. Temp	1.62 @ 62				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.67 @ 112				
Operating Rig Time	3 1/2 Hours				
Max Rec. Temp. F	112				
Equipment Number	17				
Location	Hays				
Recorded By	C. Desaire				
Witnessed By	Bob Petersen				

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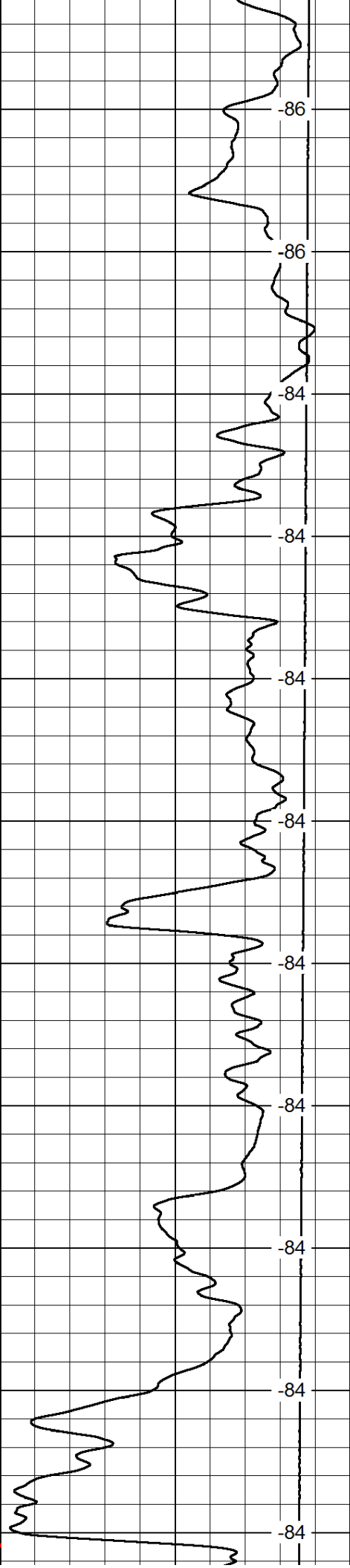
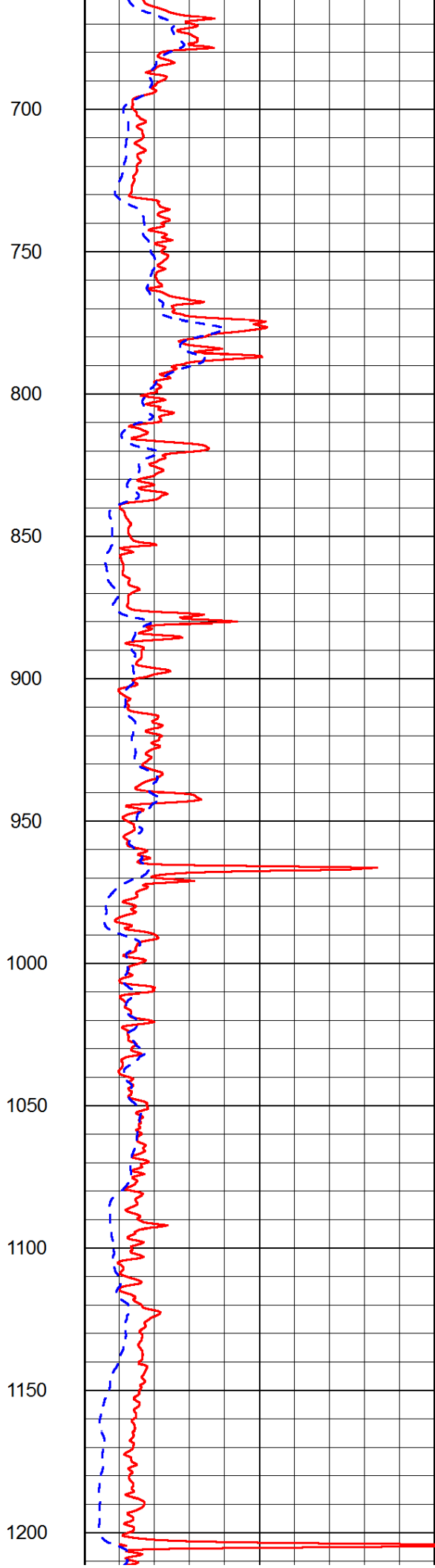
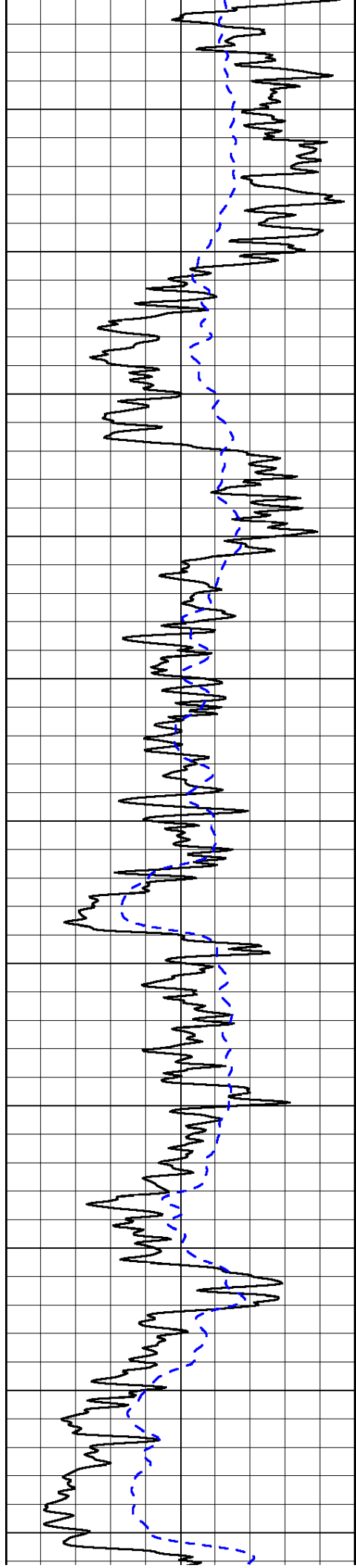
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

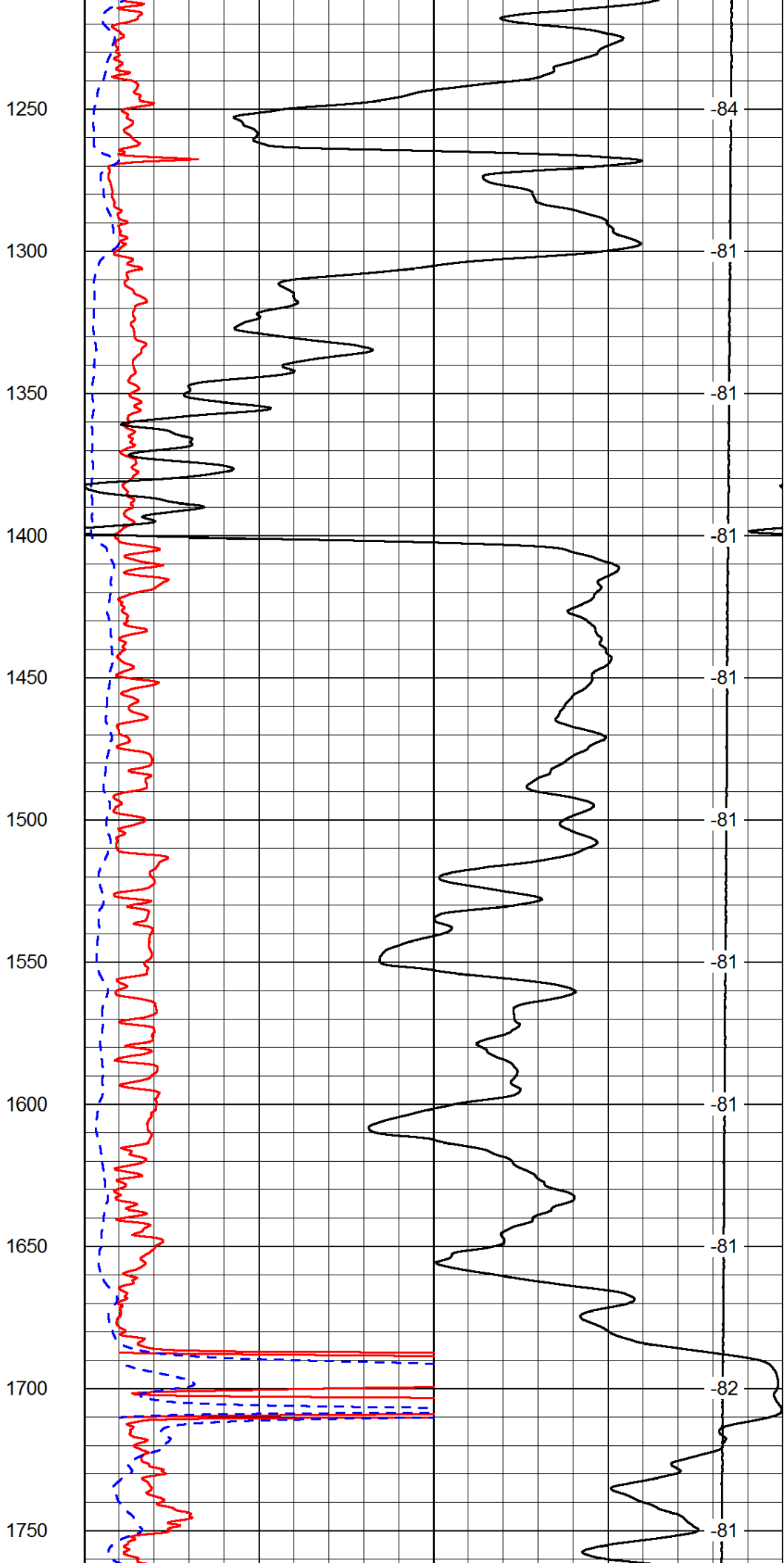
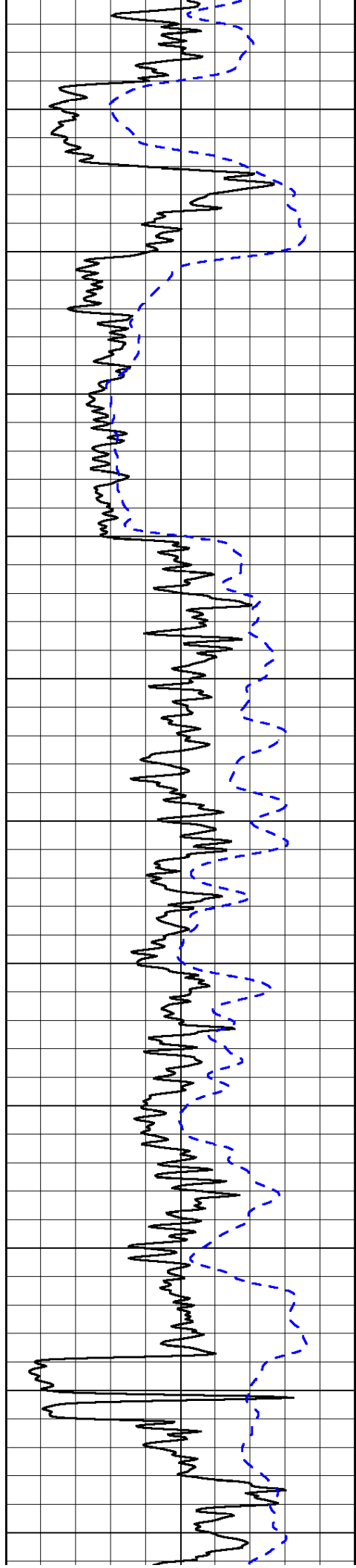
Comments

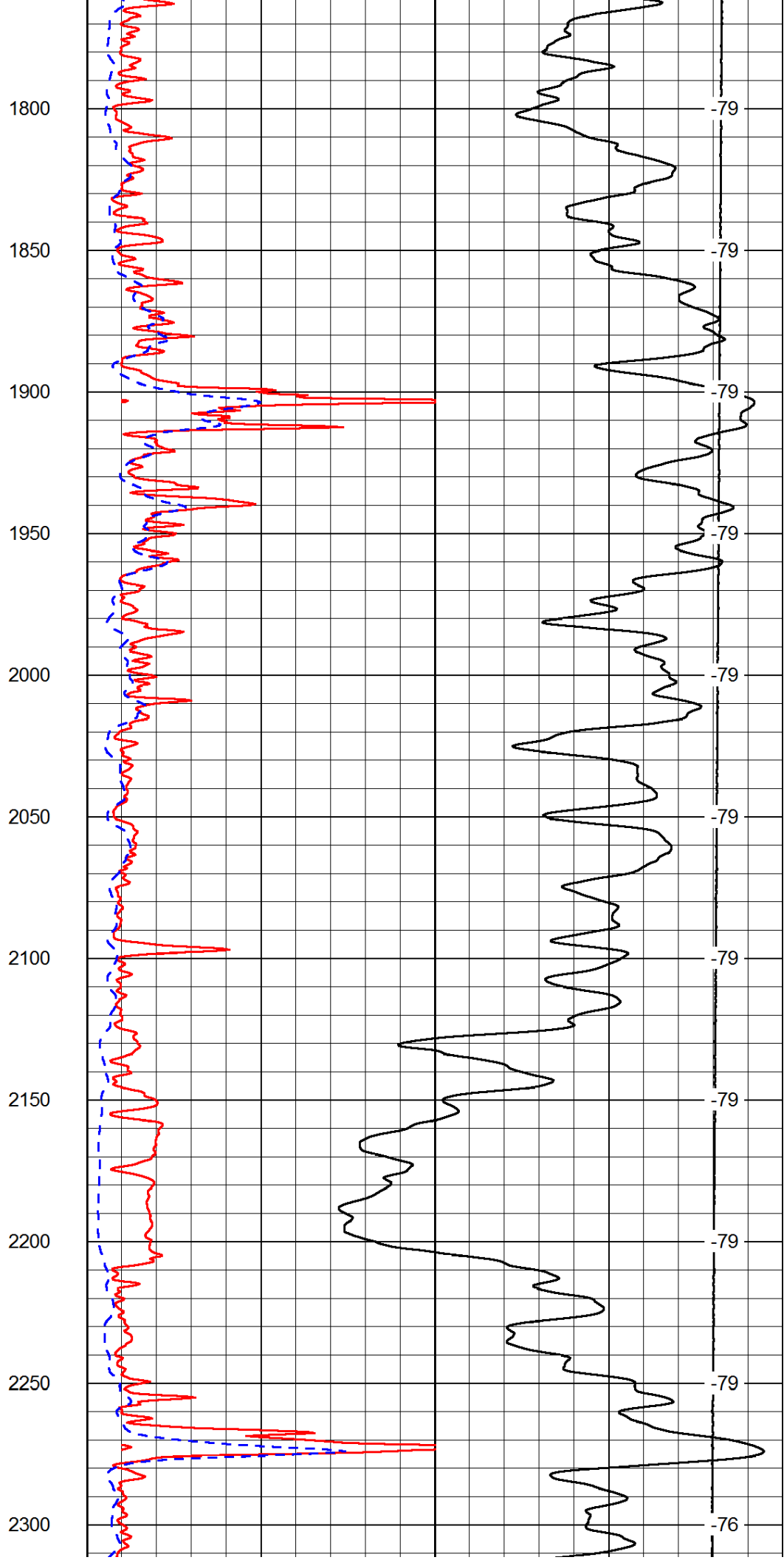
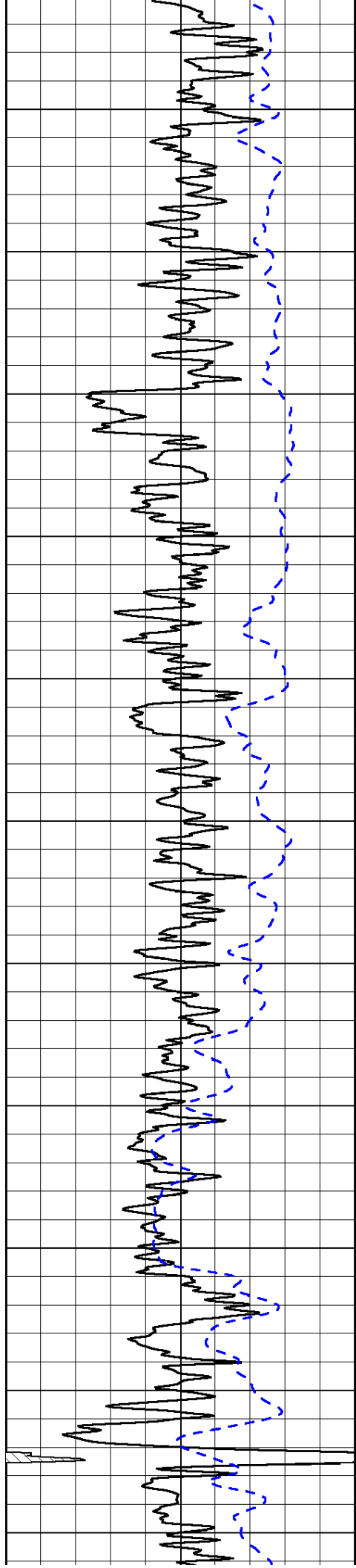
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

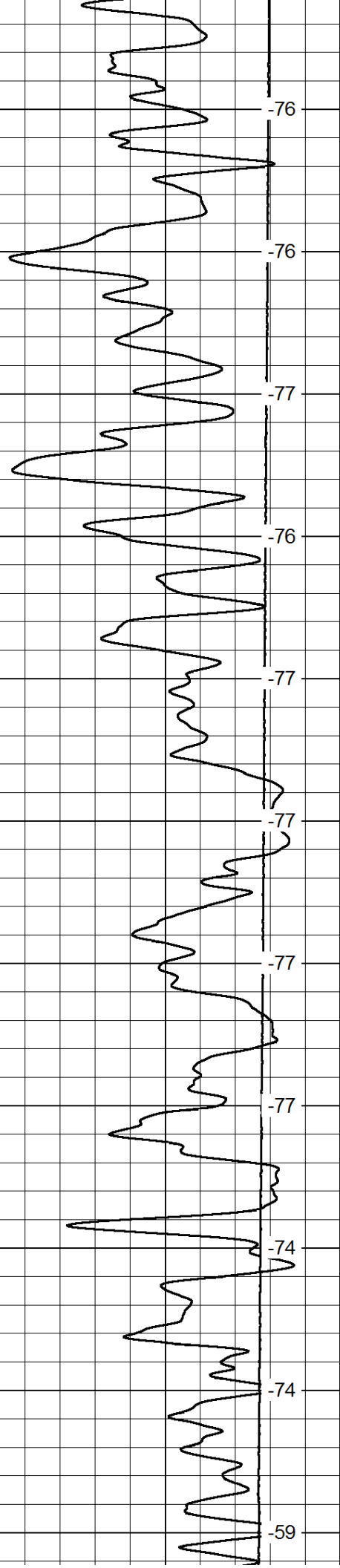
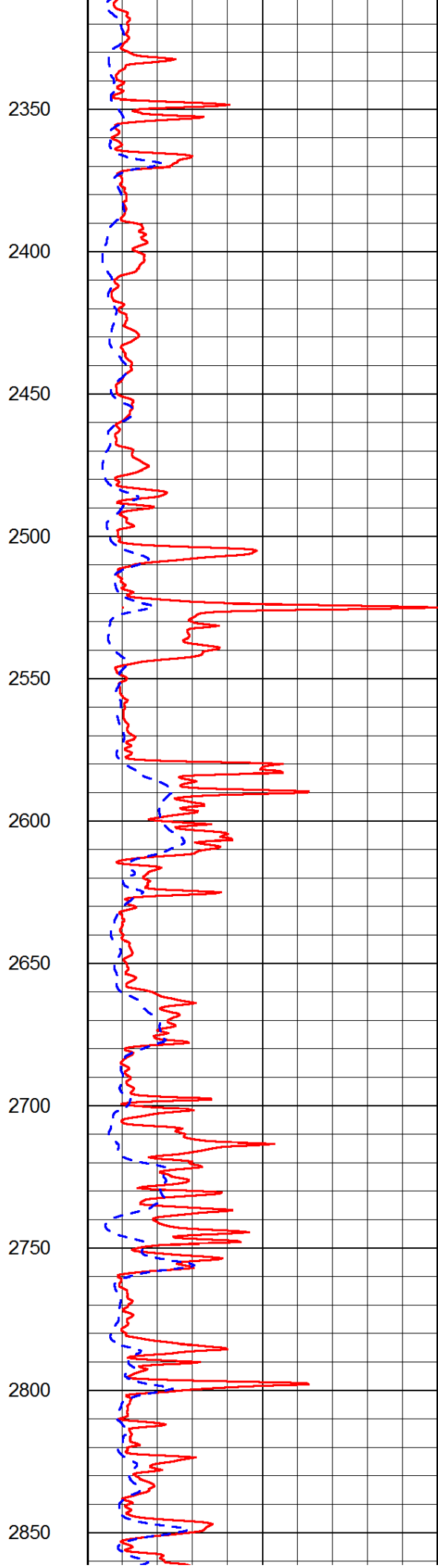
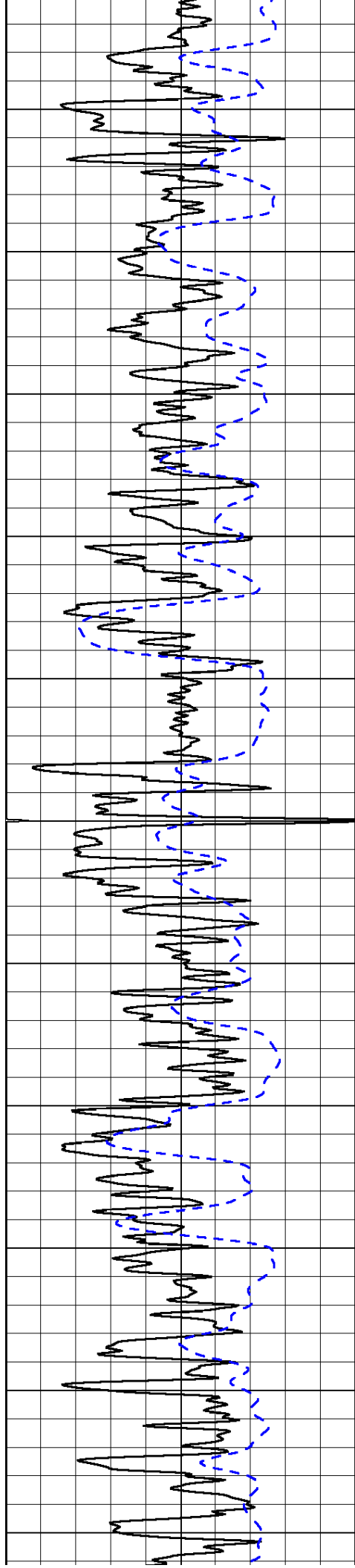
Phillipsburg KS, N to 183/383 Junction,
2 W, 1 S, W Into

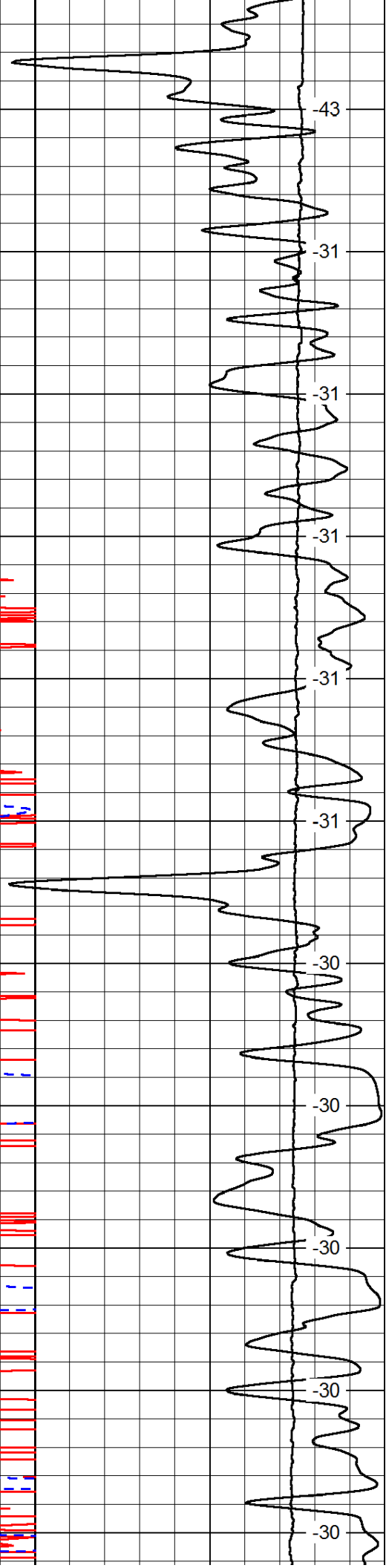
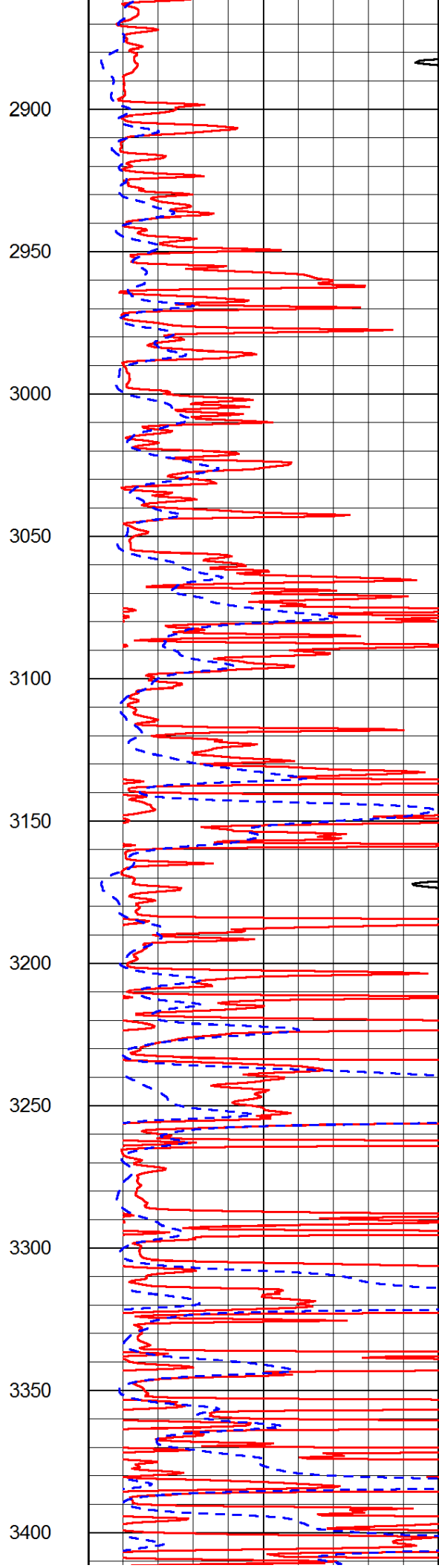
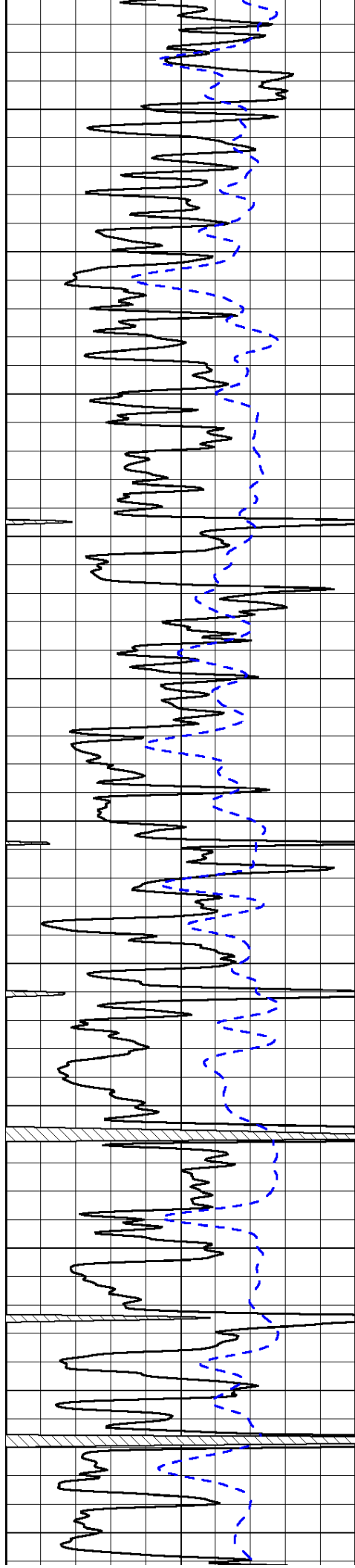
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Charted by: Depth in Feet scaled 1:600

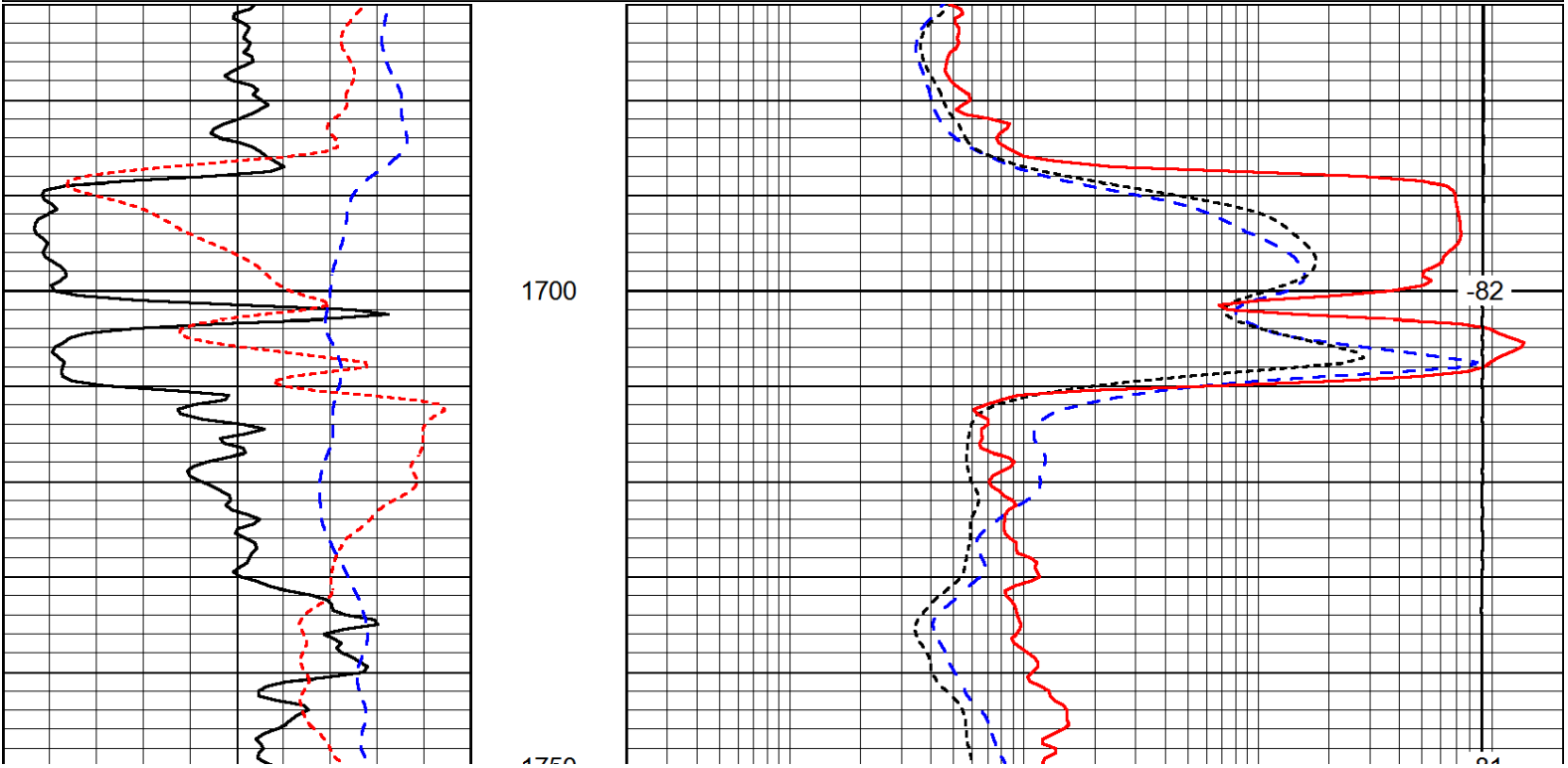
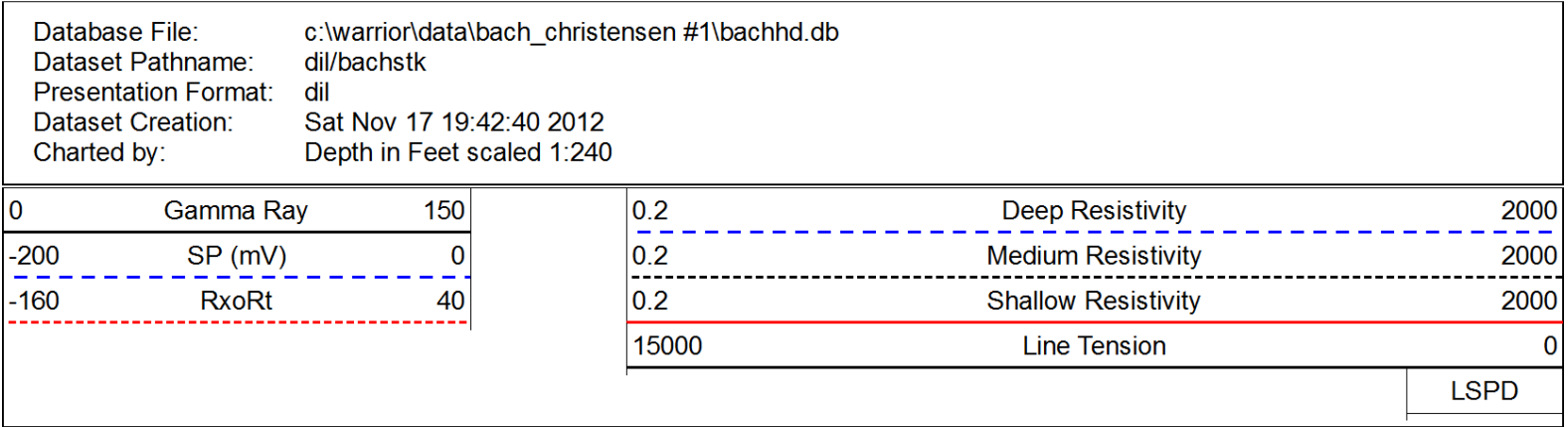
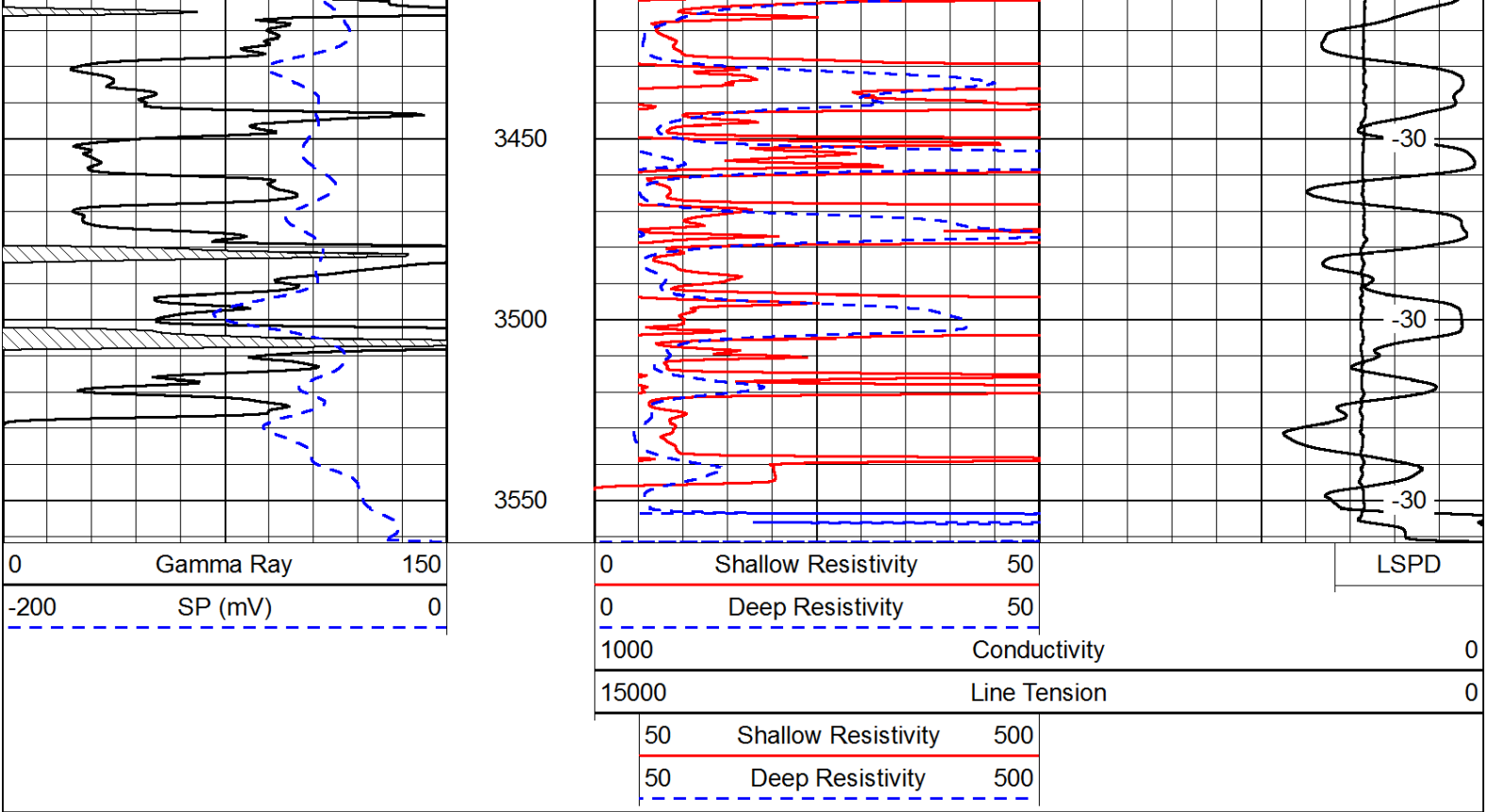


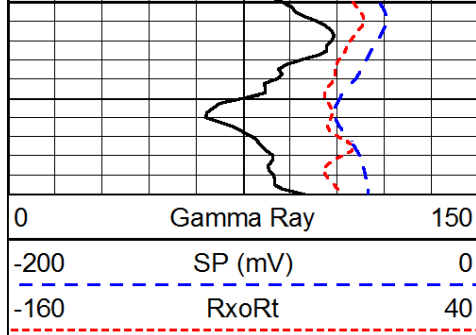




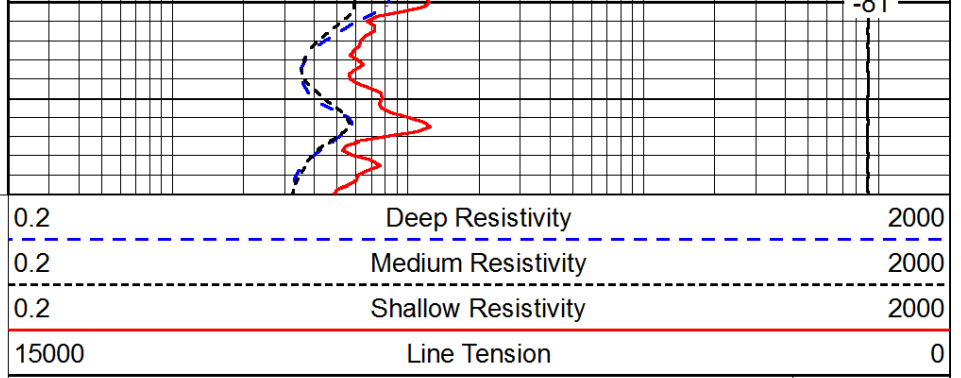






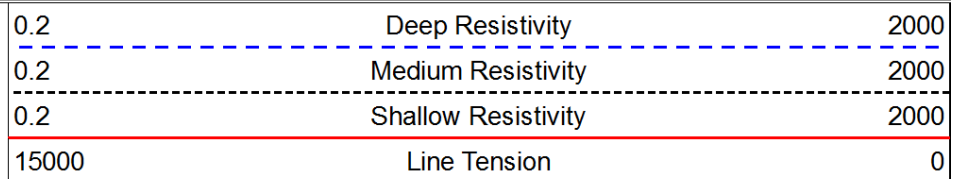
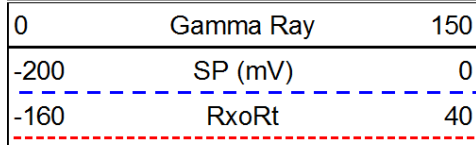


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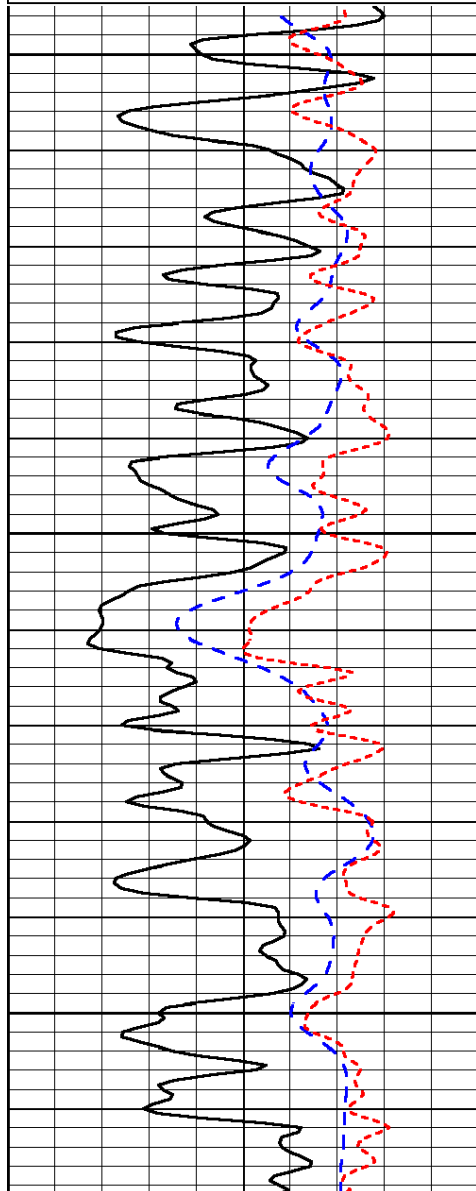


LSPD

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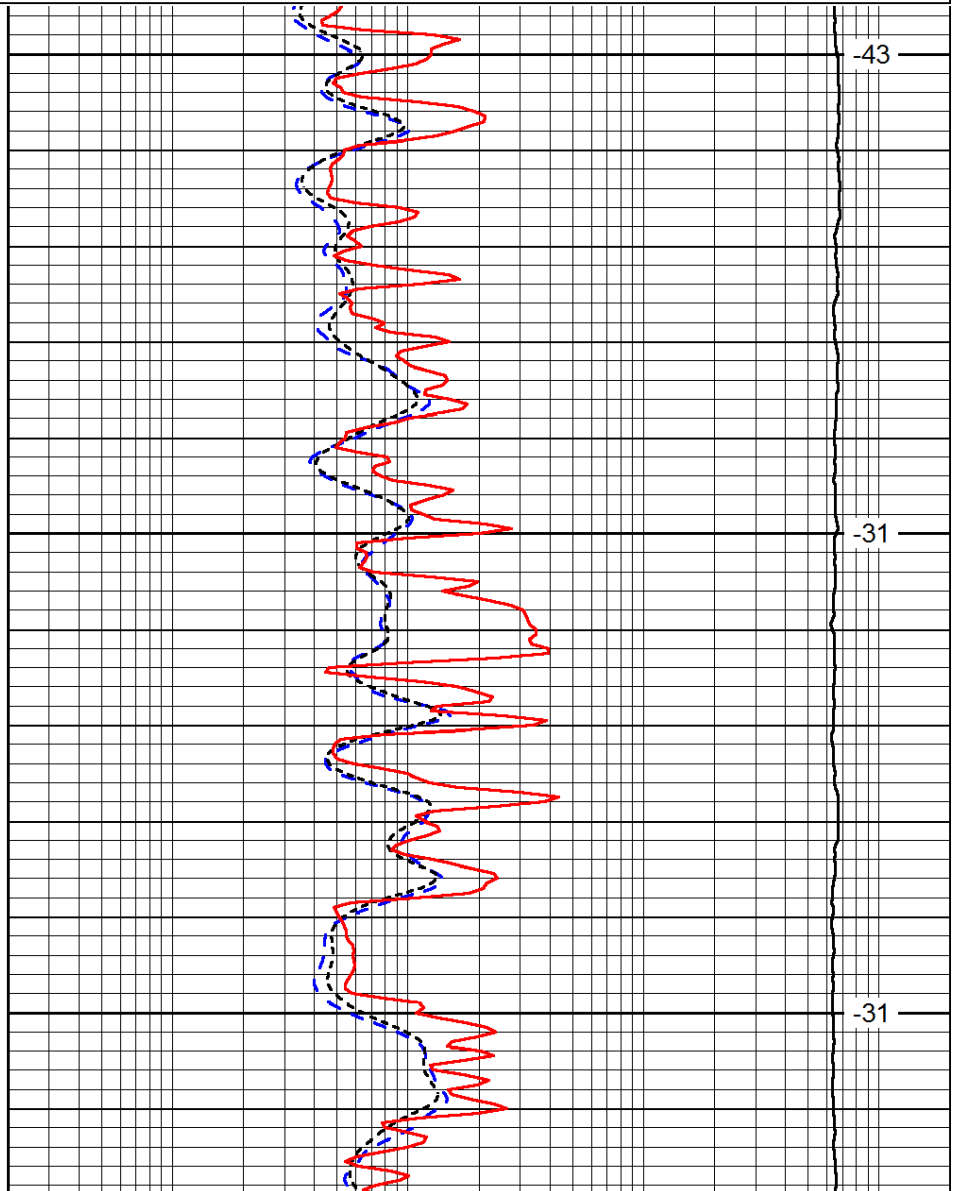
LSPD



2900

2950

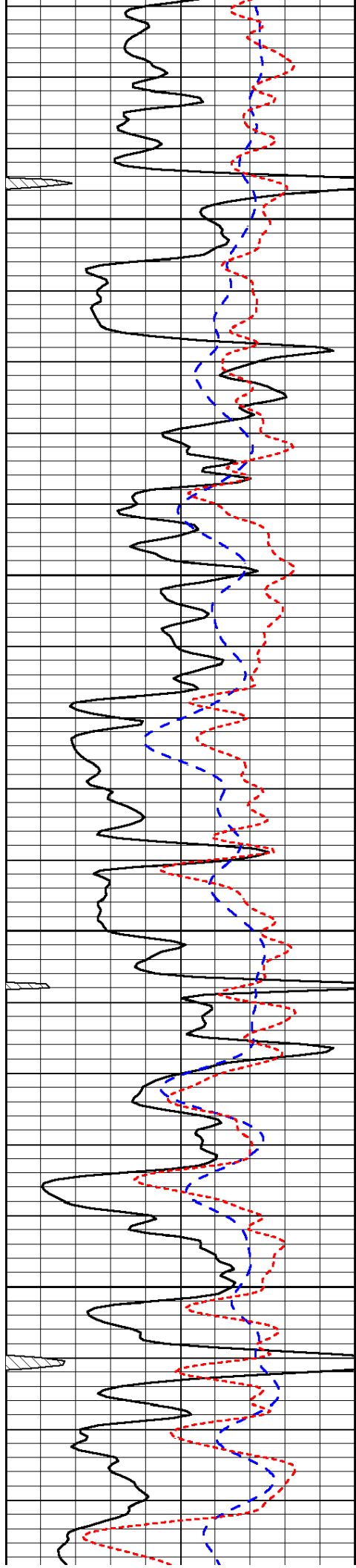
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-43

-31

-31

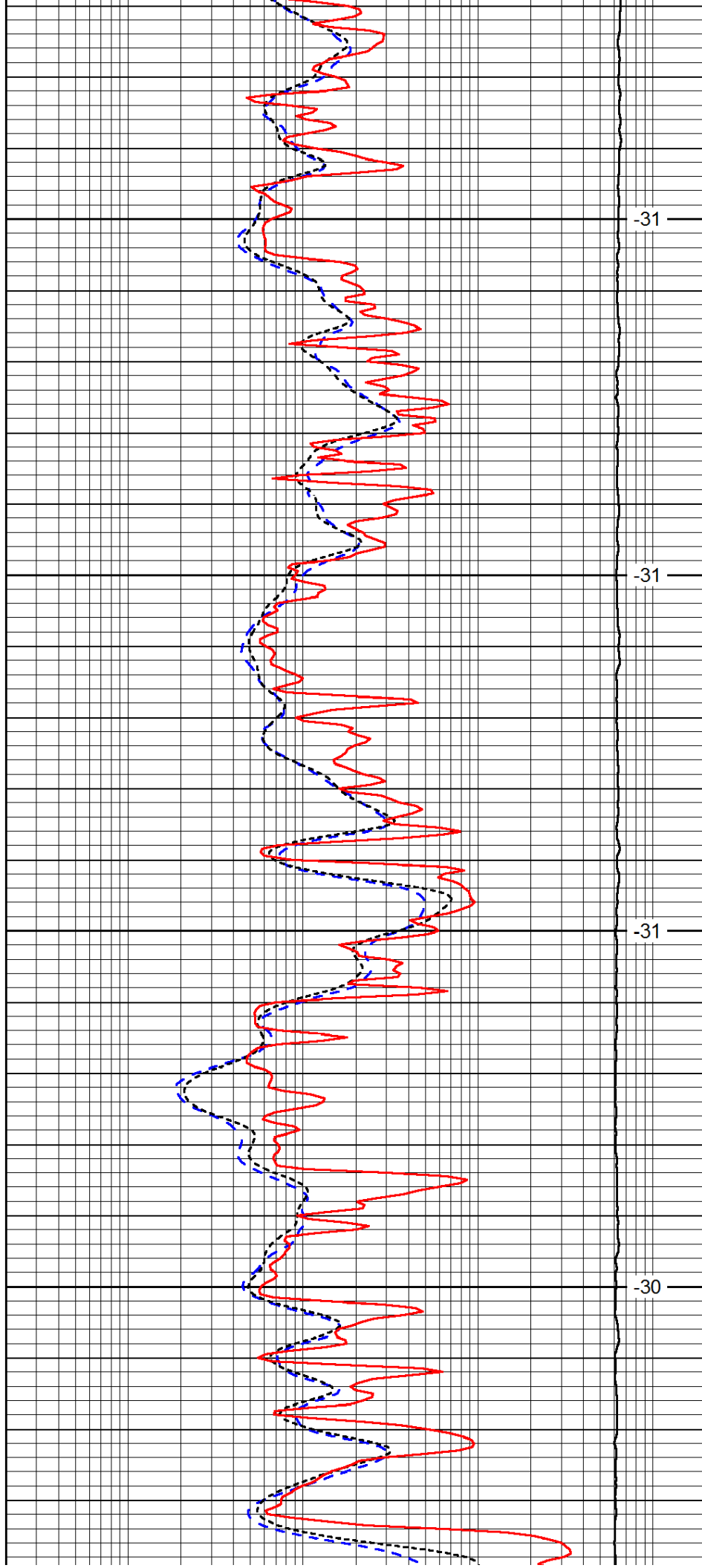


3050

3100

3150

3200

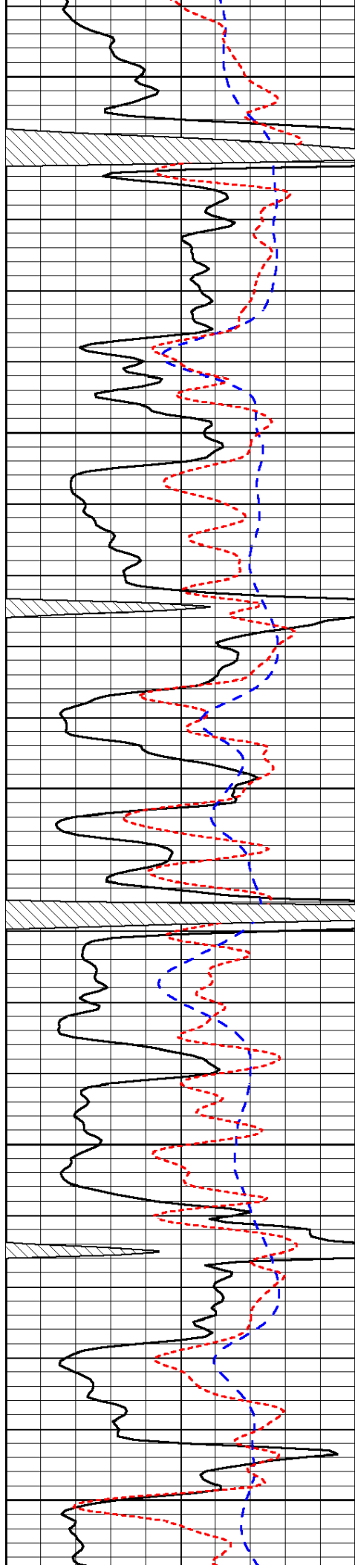


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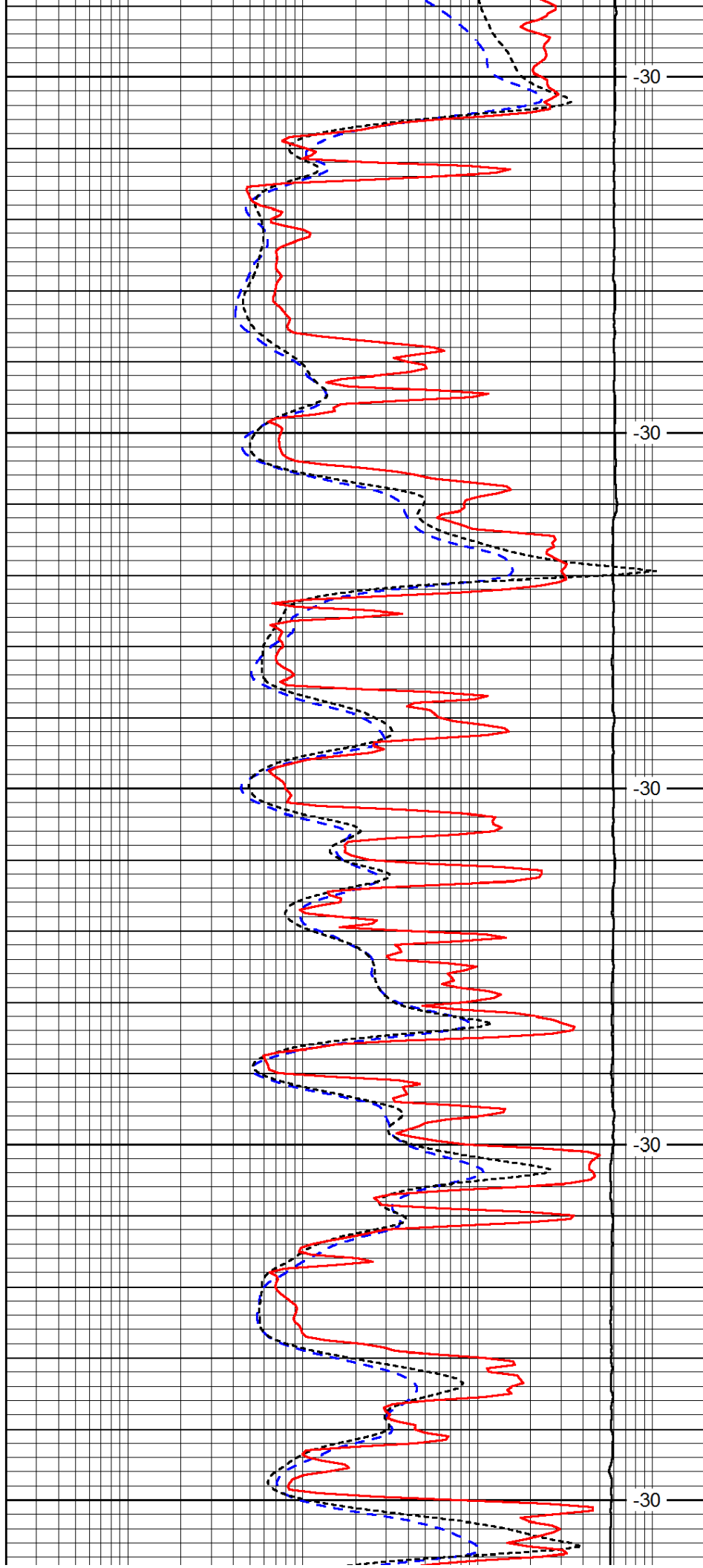
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3300

3350

3400

3450



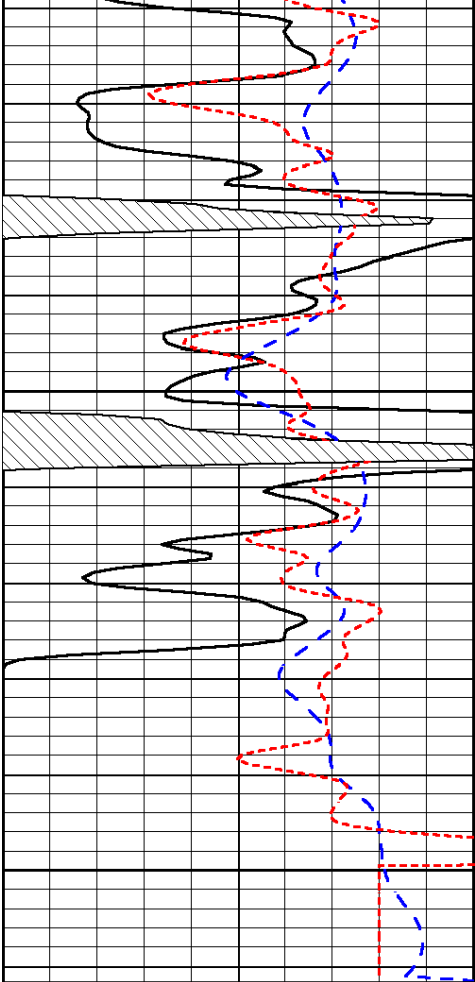
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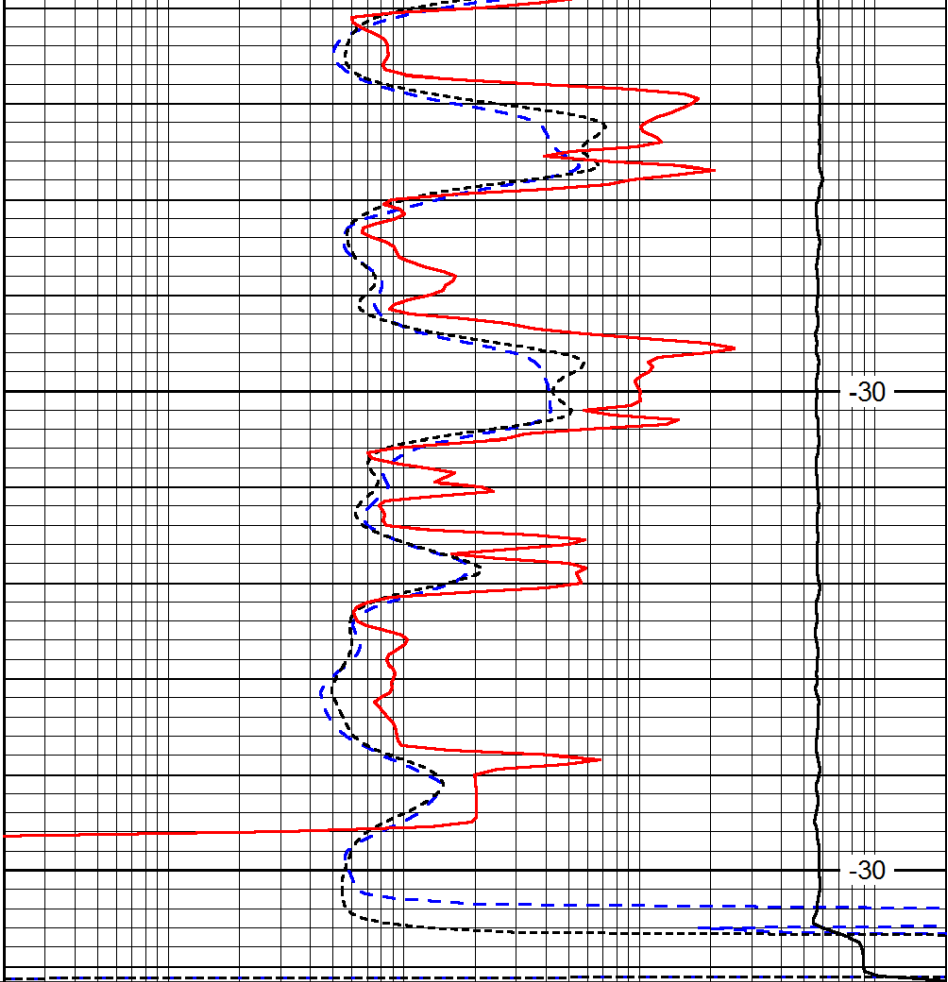
-30

-30

-30



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