



Dual Induction Log

Pioneer Energy Services

API No.	Company H&D Exploration, LLC				
	Well Marlene #1				
	Field Ash Creek				
	County	Barton	State	Kansas	
15-009-26,000-00-00	Location	2167' FSL & 500' FEL			Other Services CNL/CDL MEL
	Sec: 31	Twp: 20S	Rge: 15W	Elevation	
	Permanent Datum Log Measured From Drilling Measured From	Ground Level Kelly Bushing From Kelly Bushing	Elevation 2002 8 Ft. Above Perm. Datum	K.B. 2010 D.F. G.L. 2002	
Date	7/12/2014				
Run Number	One				
Depth Driller	3925				
Depth Logger	3925				
Bottom Logged Interval	3924				
Top Log Interval	1000				
Casing Driller	8.625 @ 1010				
Casing Logger	1008				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	4,000				
Density / Viscosity	8.9	48			
pH / Fluid Loss	9.0	10.4			
Source of Sample	Flowline				
Rm @ Meas. Temp	.65 @ 78				
Rmf @ Meas. Temp	.49 @ 78				
Rmc @ Meas. Temp	.88 @ 78				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.44 @ 115				
Operating Rig Time	3 Hours				
Max Rec. Temp. F	115				
Equipment Number	17				
Location	Hays				
Recorded By	C. Desaire				
Witnessed By	Kurt Talbott				

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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

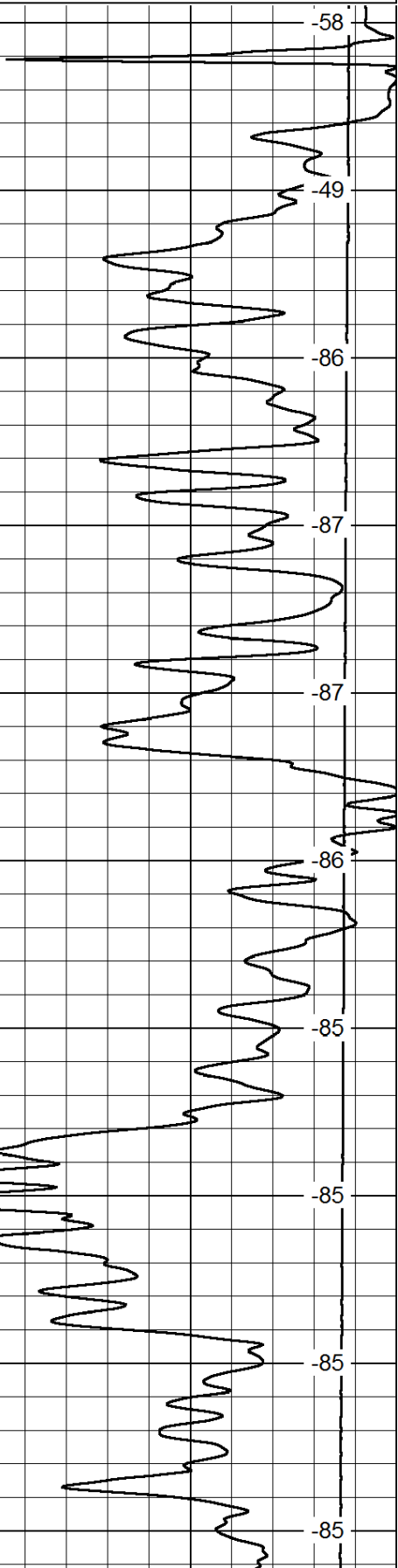
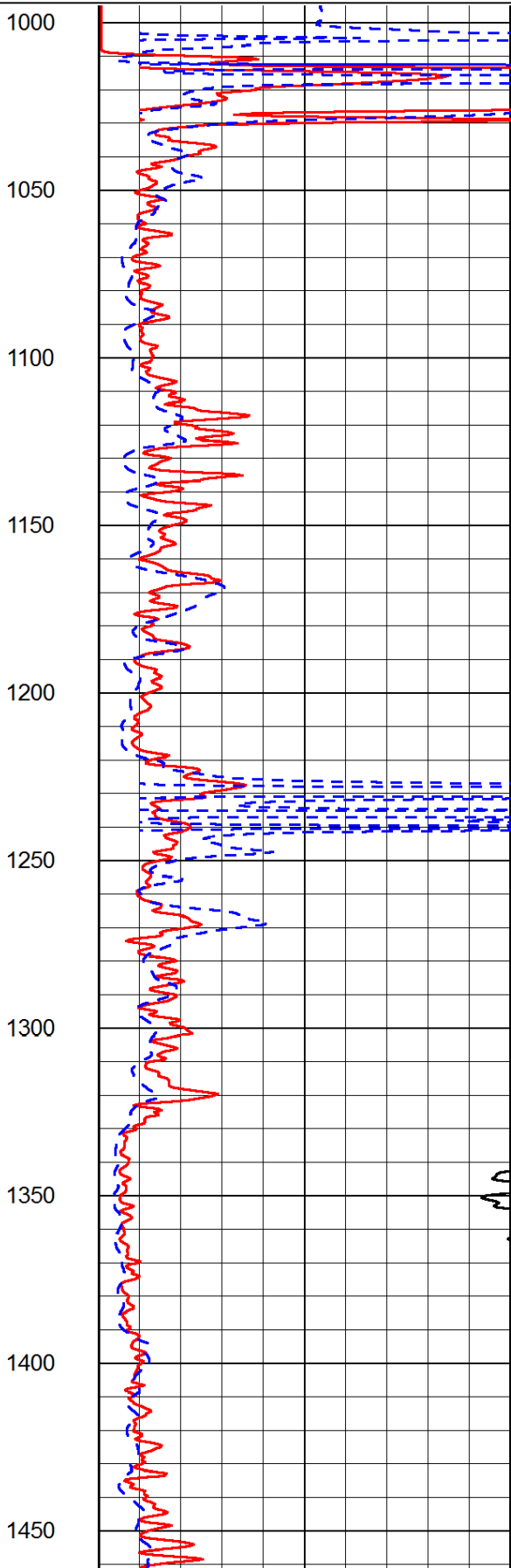
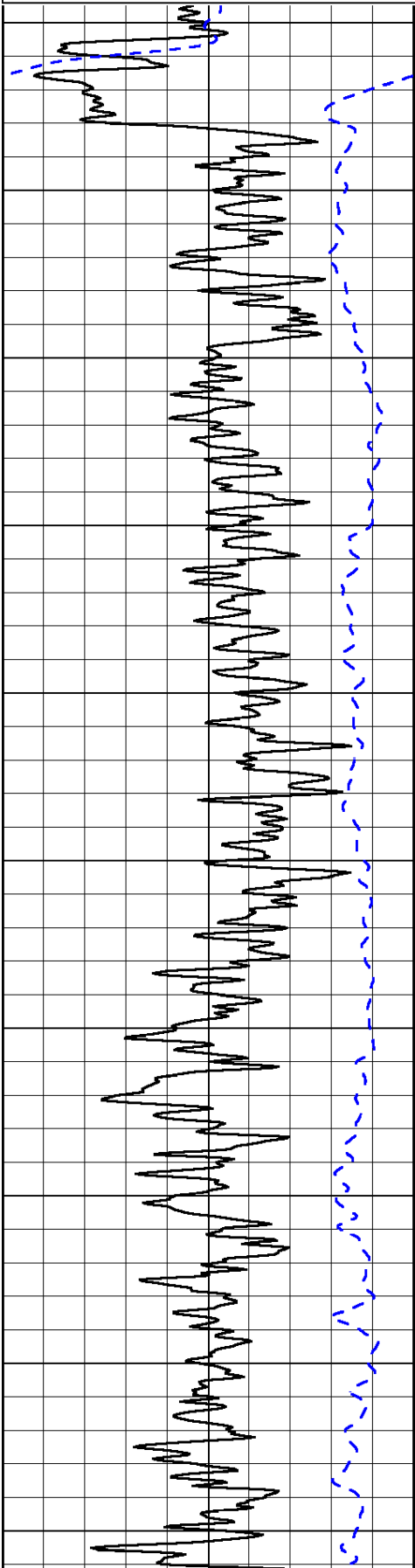
Pawnee Rock, 1 1/2 W on 70th Rd,
1 N, W Into

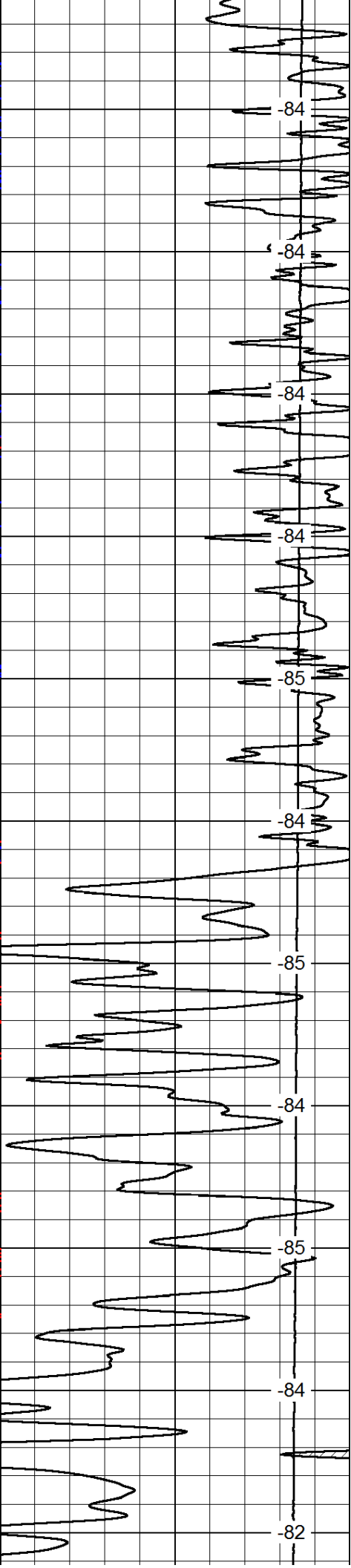
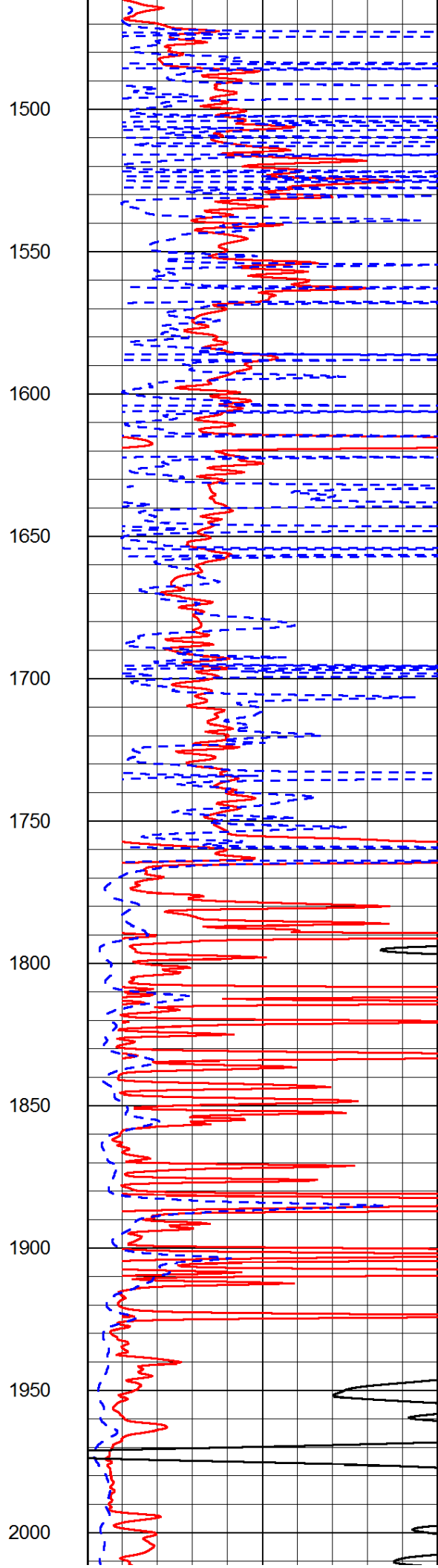
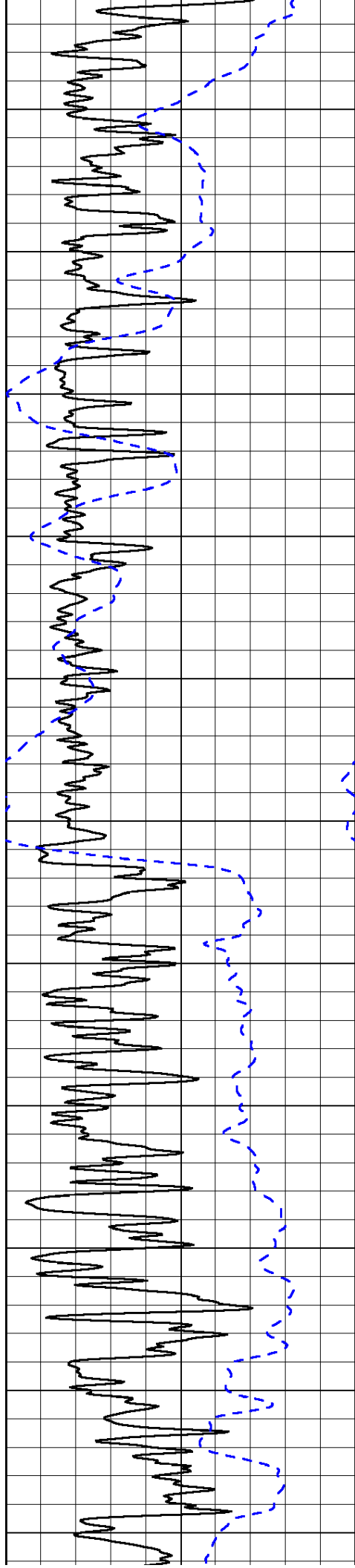
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Presentation Format: dil2in
Dataset Creation: Sat Jul 12 12:49:58 2014
Charted by: Depth in Feet scaled 1:600

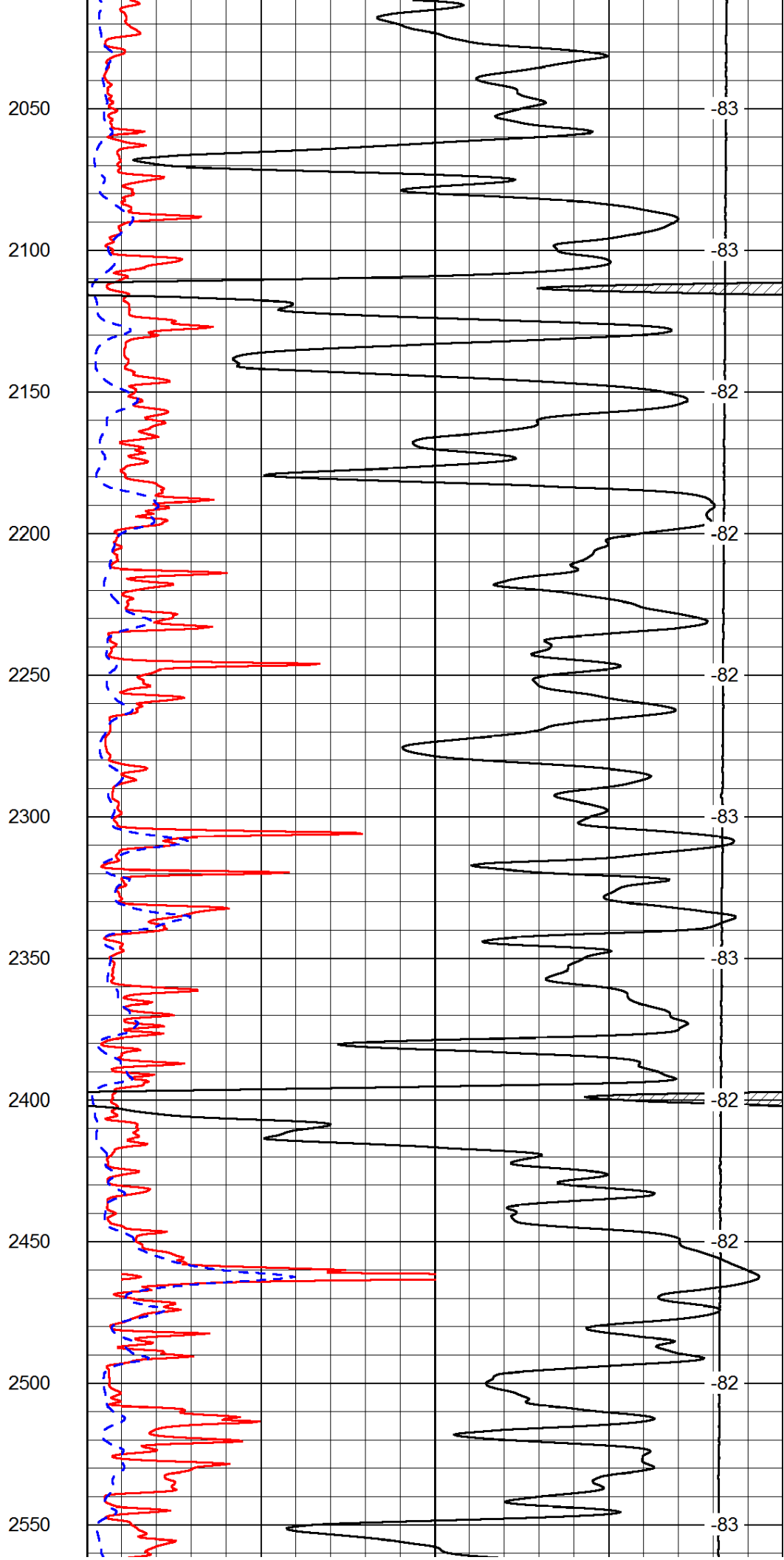
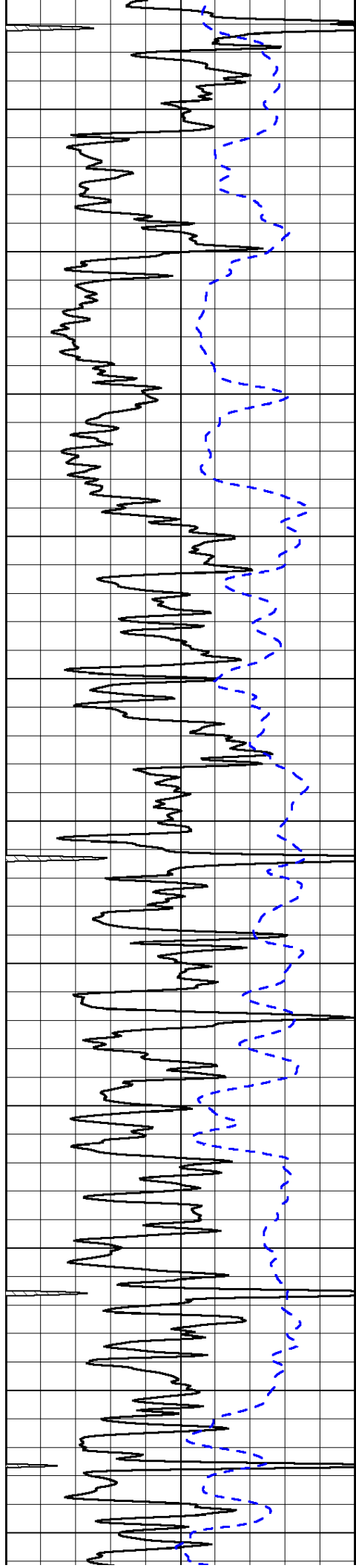
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-200	SP (mV)	0

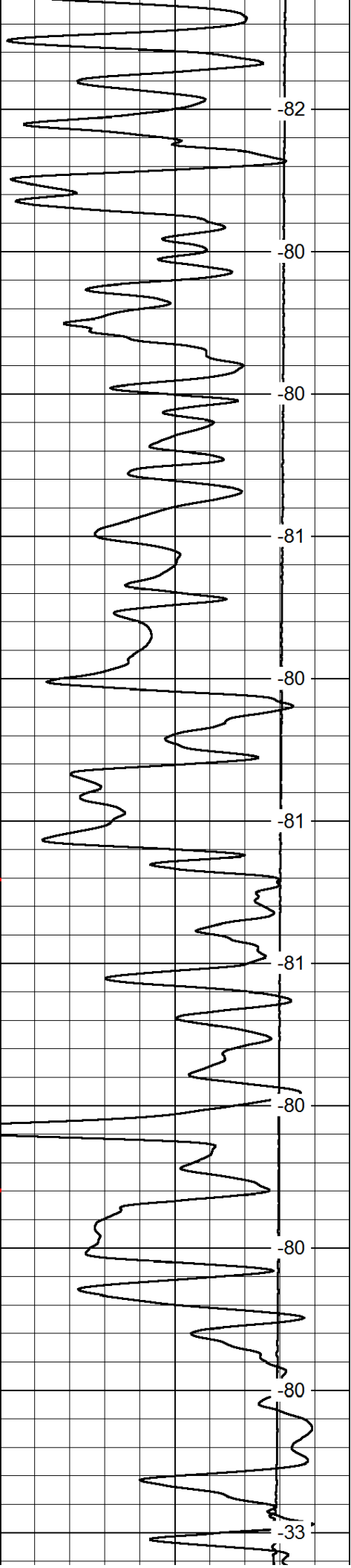
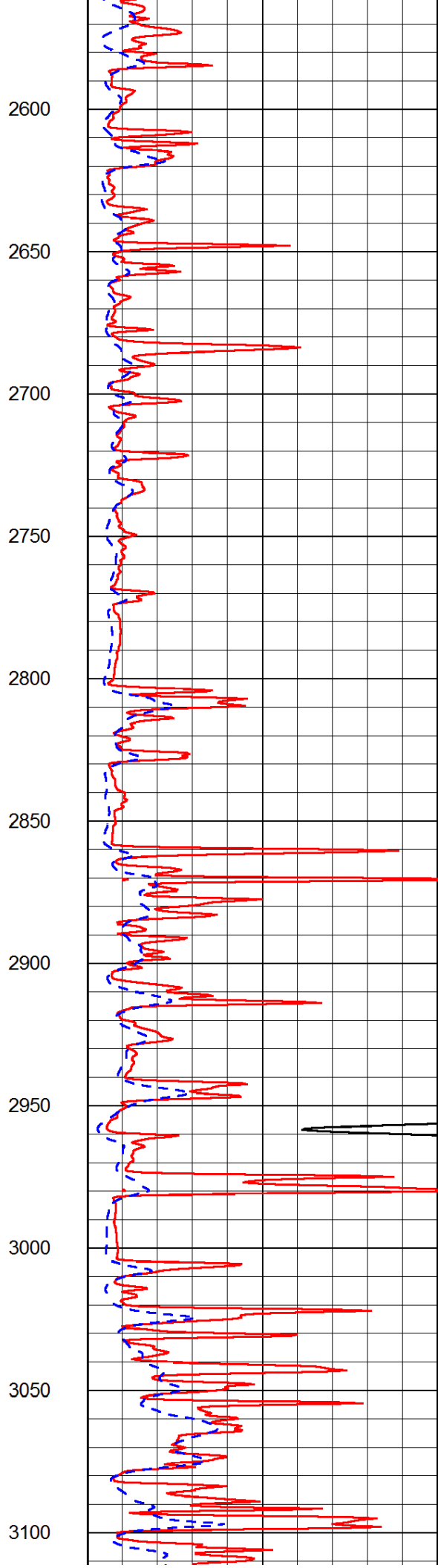
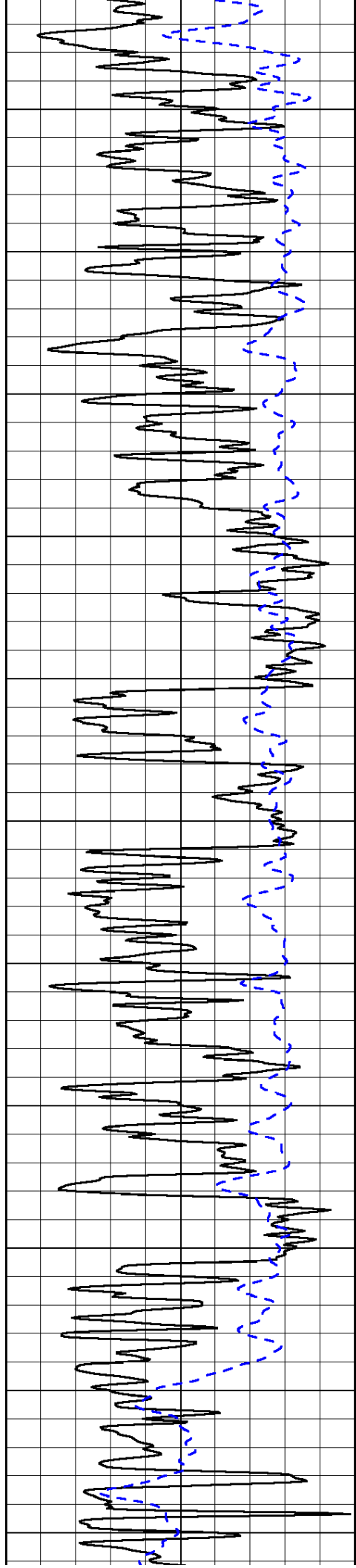
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

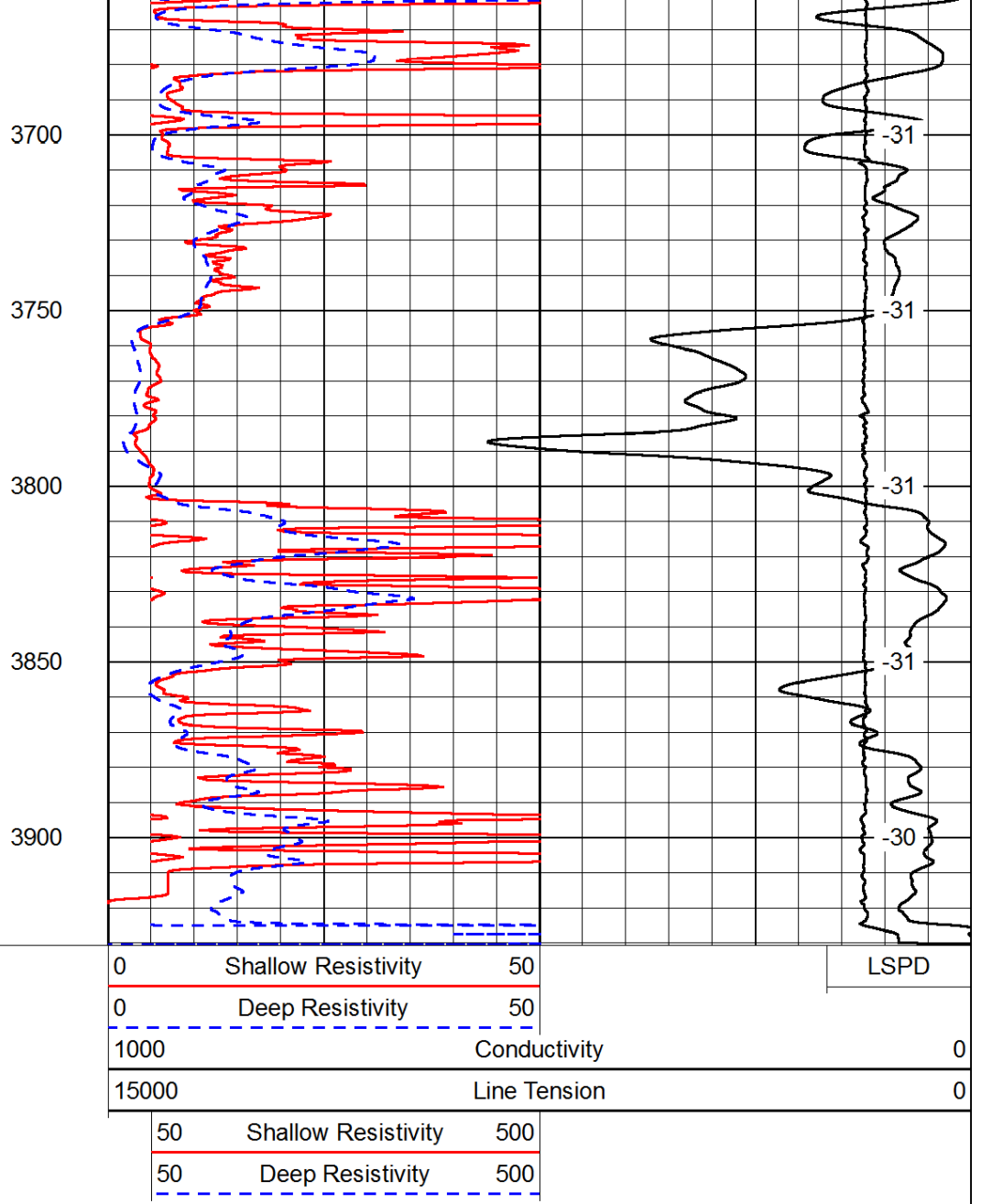
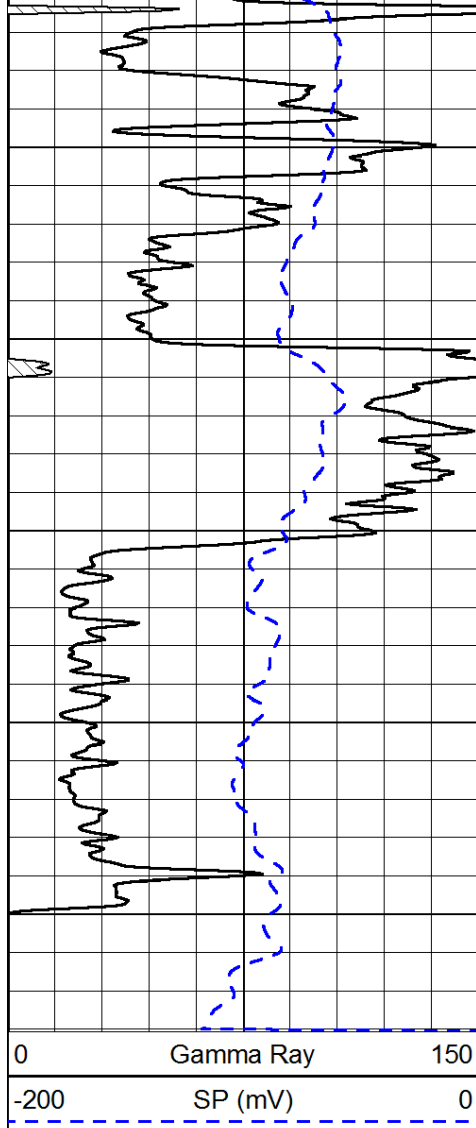
LSPD
0



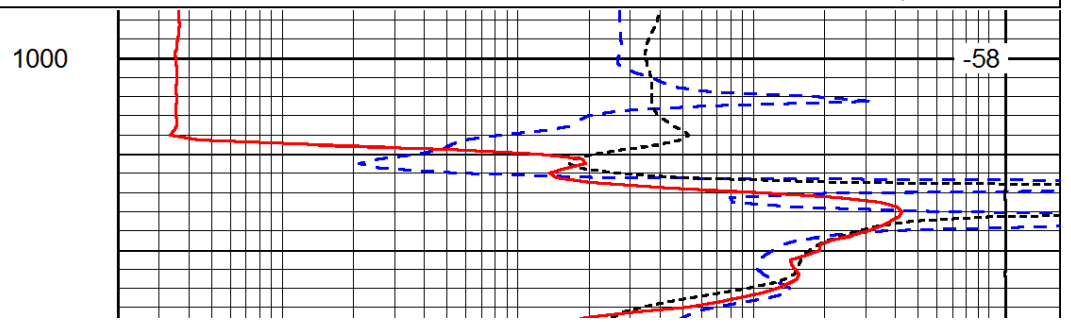
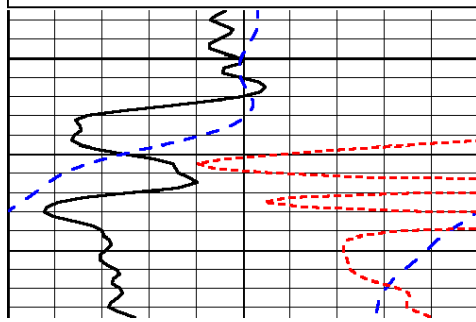
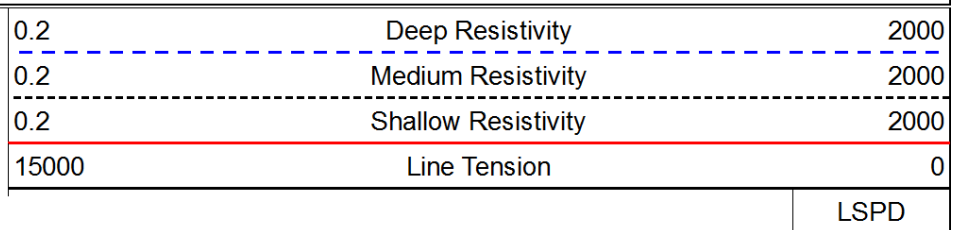
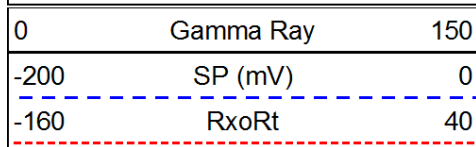


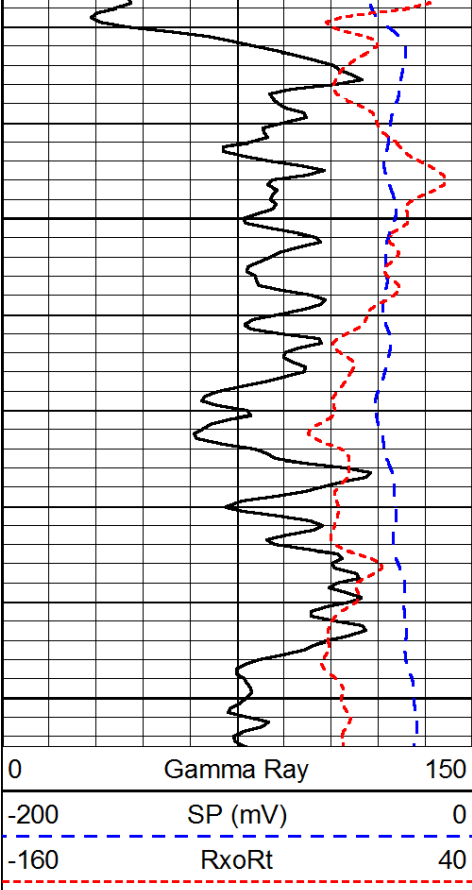






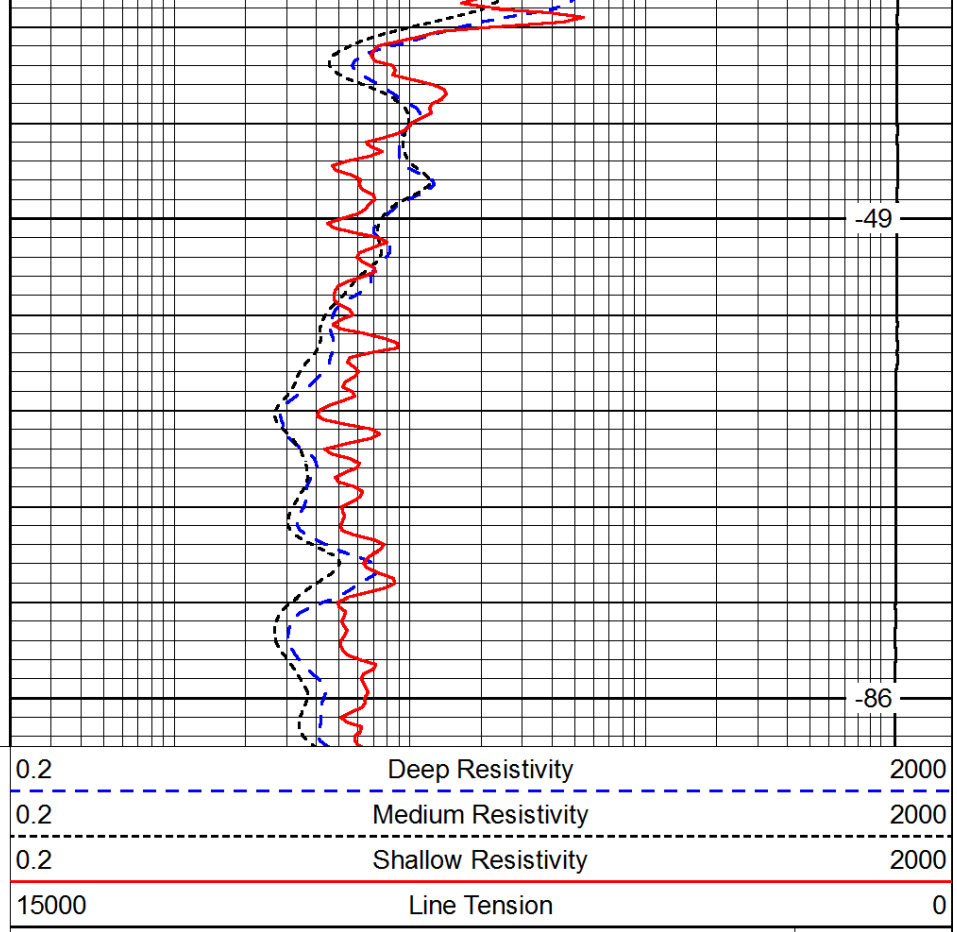
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 Dataset Creation: Sat Jul 12 12:49:58 2014
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1050

1100

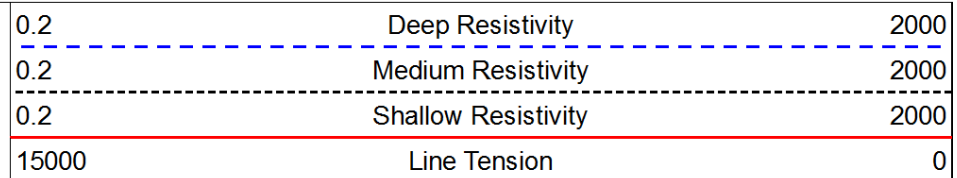
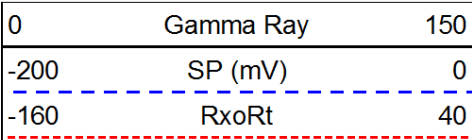


-49

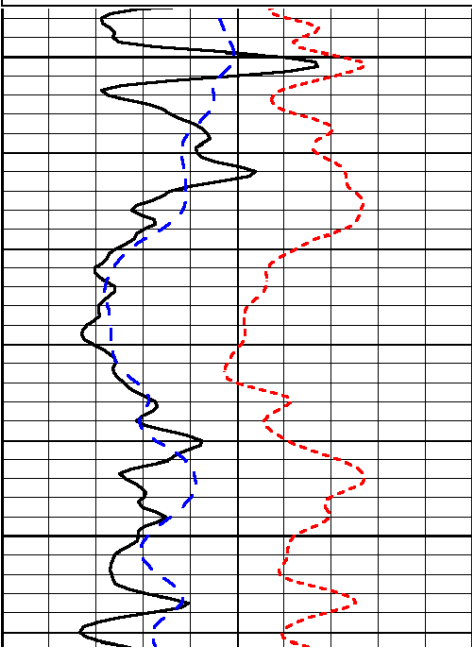
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LSPD

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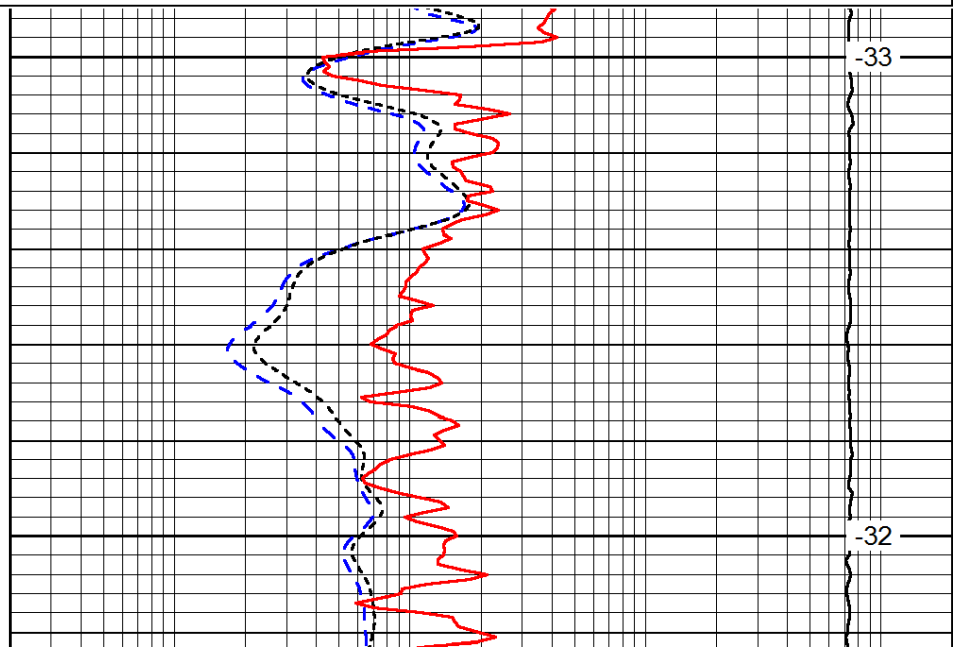


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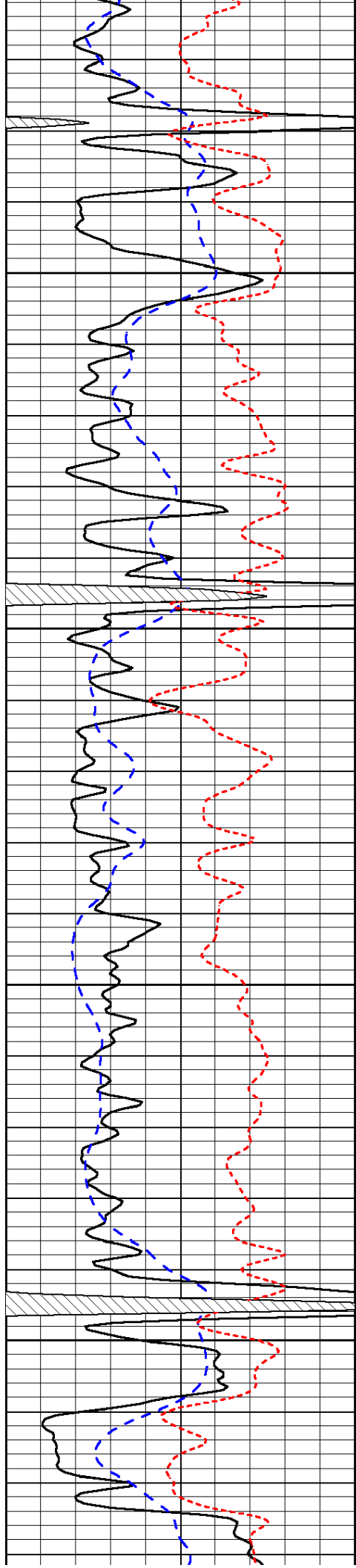
3100

3150



-33

-32

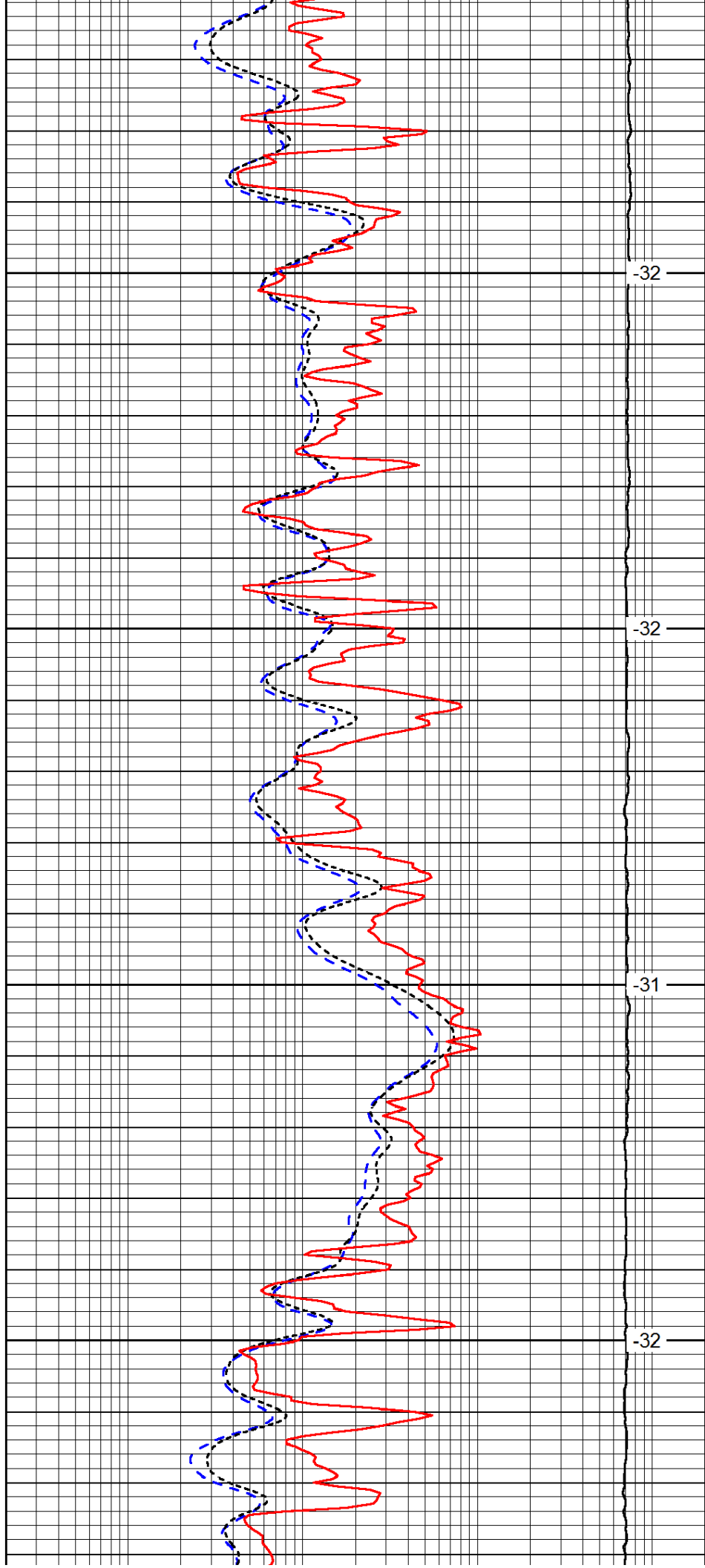


3200

3250

3300

3350

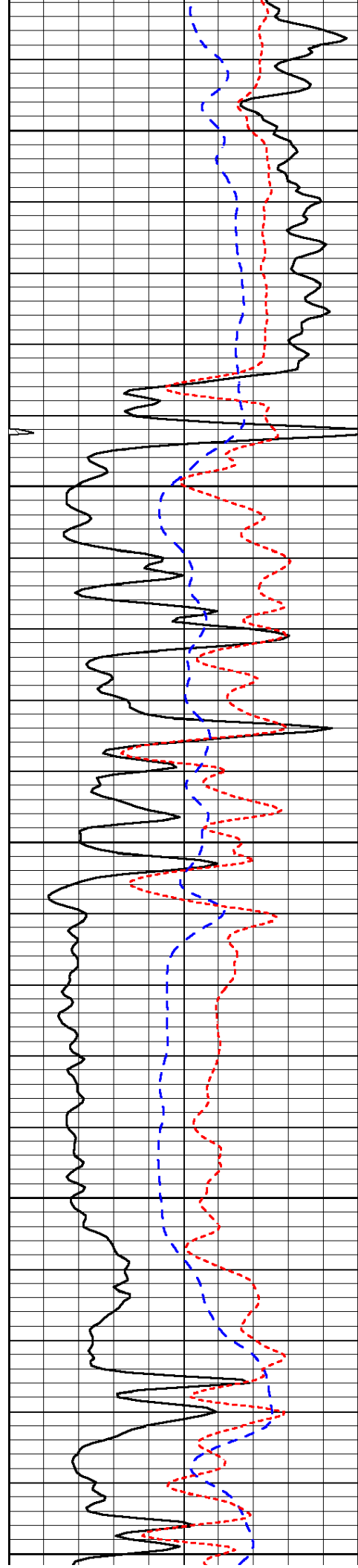


-32

-32

-31

-32



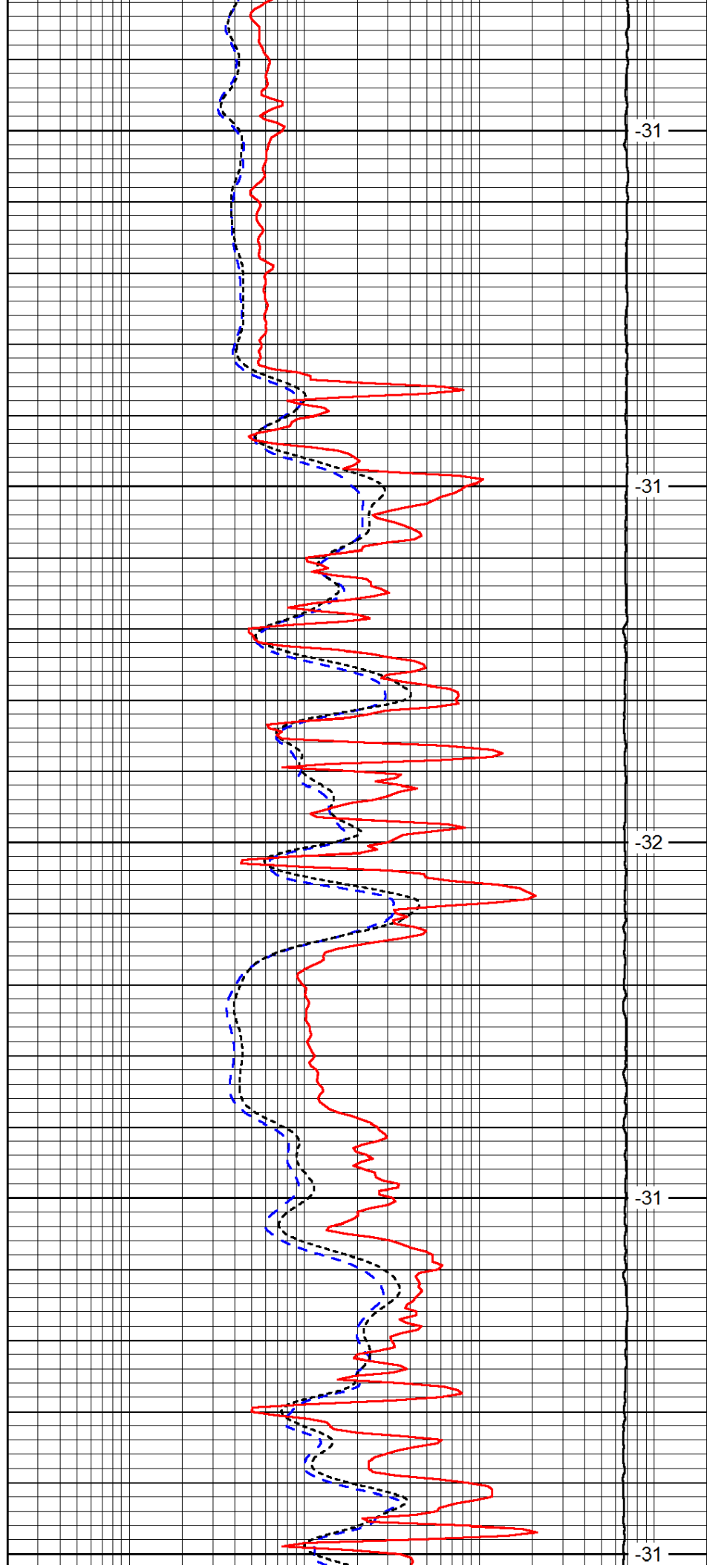
3400

3450

3500

3550

3600



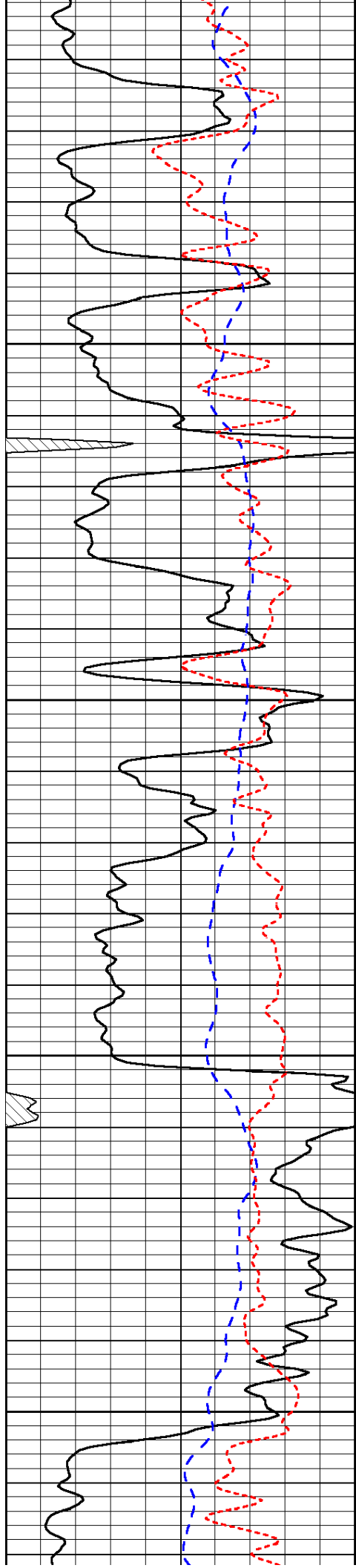
-31

-31

-32

-31

-31

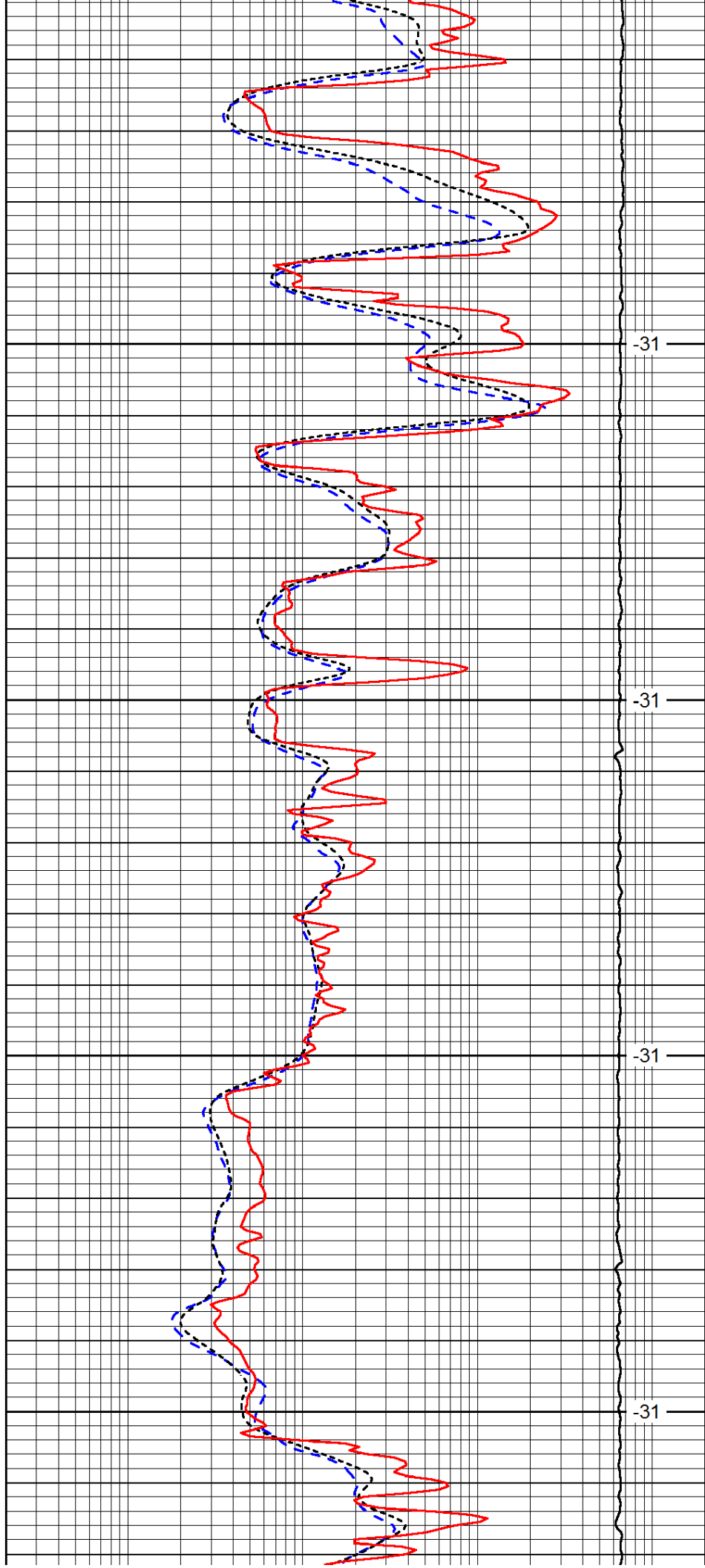


3650

3700

3750

3800

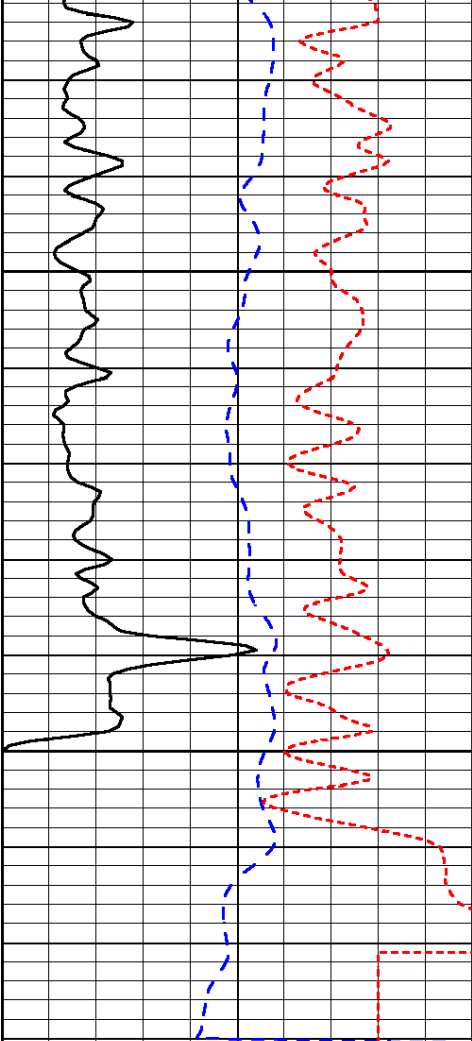


-31

-31

-31

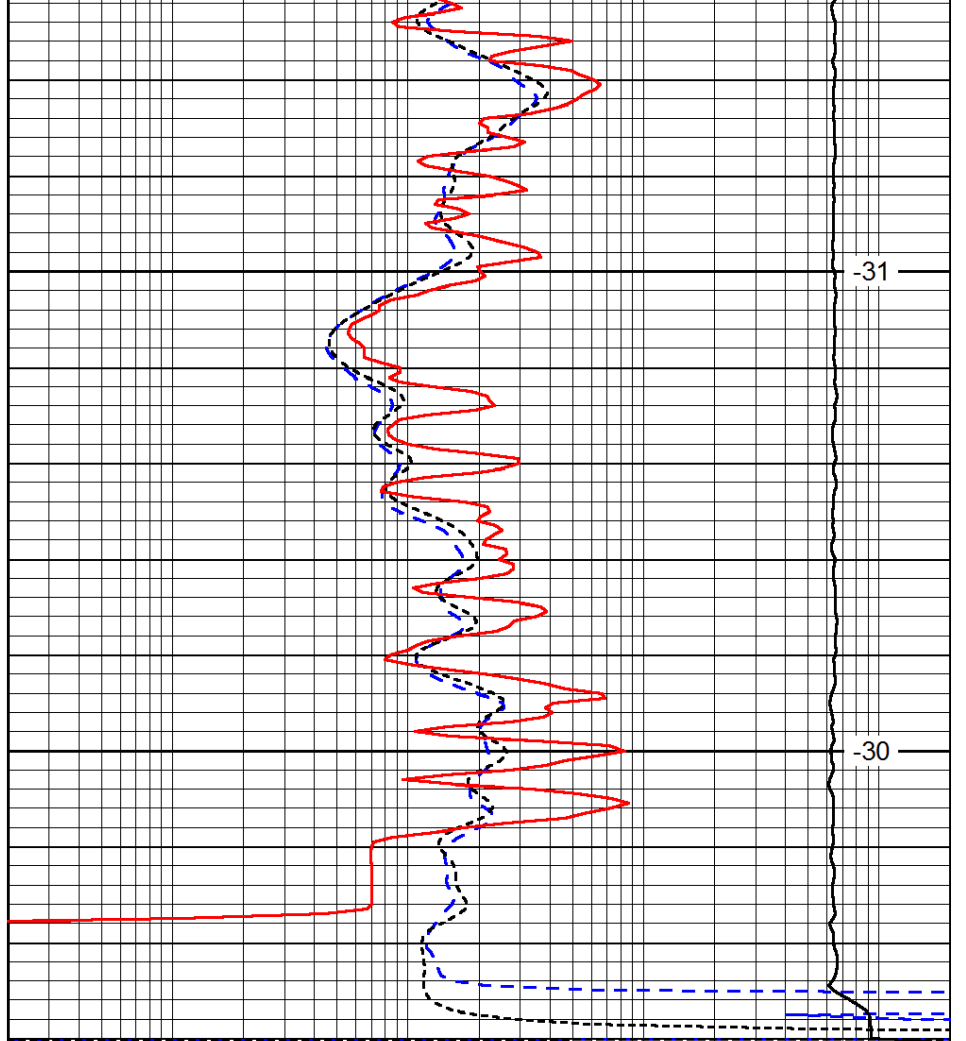
-31



0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

3850

3900



-31

-30

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD