



Dual Induction Log

Pioneer Energy Services

API No.		Company Novy Oil & Gas, Inc.			
15-155-21,701-00-00		Well Withroder # 1			
		Field Zenith-Peace Creek			
		County Reno		State Kansas	
		Location 330' FNL & 2310' FEL			
Sec: 15		Twp: 23s		Rge: 10w	
Permanent Datum		Ground Level		Elevation 1770	
Log Measured From		Kelly Bushing		8 Ft. Above Perm. Datum	
Drilling Measured From		Kelly Bushing		K.B. 1778 D.F. 1770 G.L. 1770	
Date		7/9/2014			
Run Number		One			
Depth Driller		3860			
Depth Logger		3850			
Bottom Logged Interval		3849			
Top Log Interval		200			
Casing Driller		8.625 @ 257			
Casing Logger		217			
Bit Size		7.875			
Type Fluid in Hole		Chemical			
Salinity, ppm CL		7100			
Density / Viscosity		9.5 48			
pH / Fluid Loss		10.0 9.2			
Source of Sample		Flowline			
Rm @ Meas. Temp		.74 @ 74			
Rmf @ Meas. Temp		.56 @ 74			
Rmc @ Meas. Temp		1.00 @ 74			
Source of Rmf / Rmc		Charts			
Rm @ BHT		.48 @ 115			
Operating Rig Time		4 Hours			
Max Rec. Temp. F		115			
Equipment Number		108			
Location		Hays			
Recorded By		J. Long		D Fischer	
Witnessed By		Harley Sayles			

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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

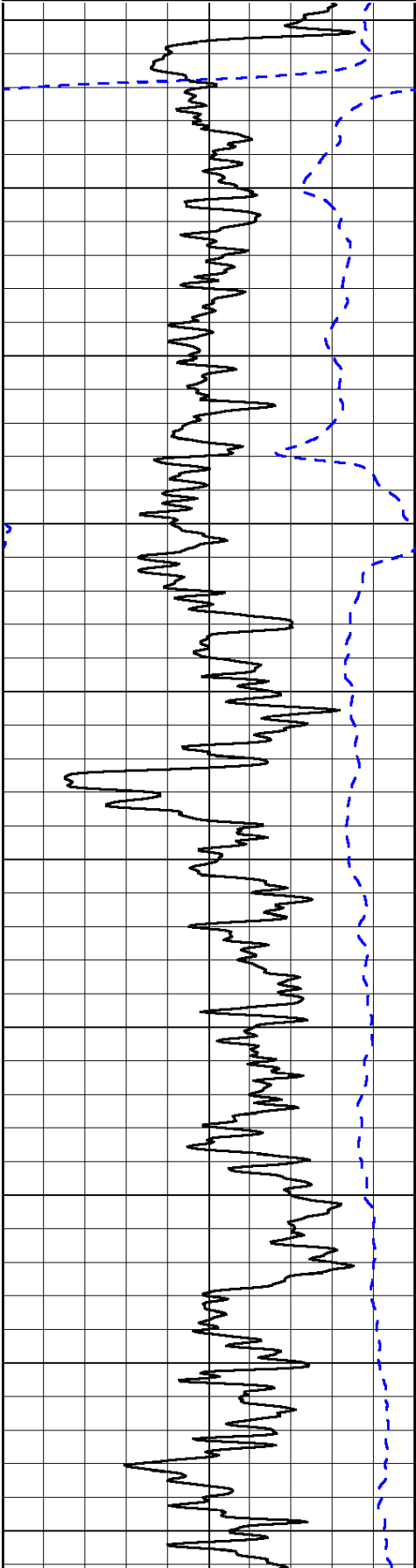
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Sylvia Ks., Northeast to Netherland Rd., 5 3/4 North to 4th Rd., 1/2 West, South Into.

Database File: c:\warrior\data\novy_withroder # 1\novy_oil_withroder_1hd.db
Dataset Pathname: DIL\novystck
Presentation Format: dil2in
Dataset Creation: Wed Jul 09 02:04:36 2014
Charted by: Depth in Feet scaled 1:600

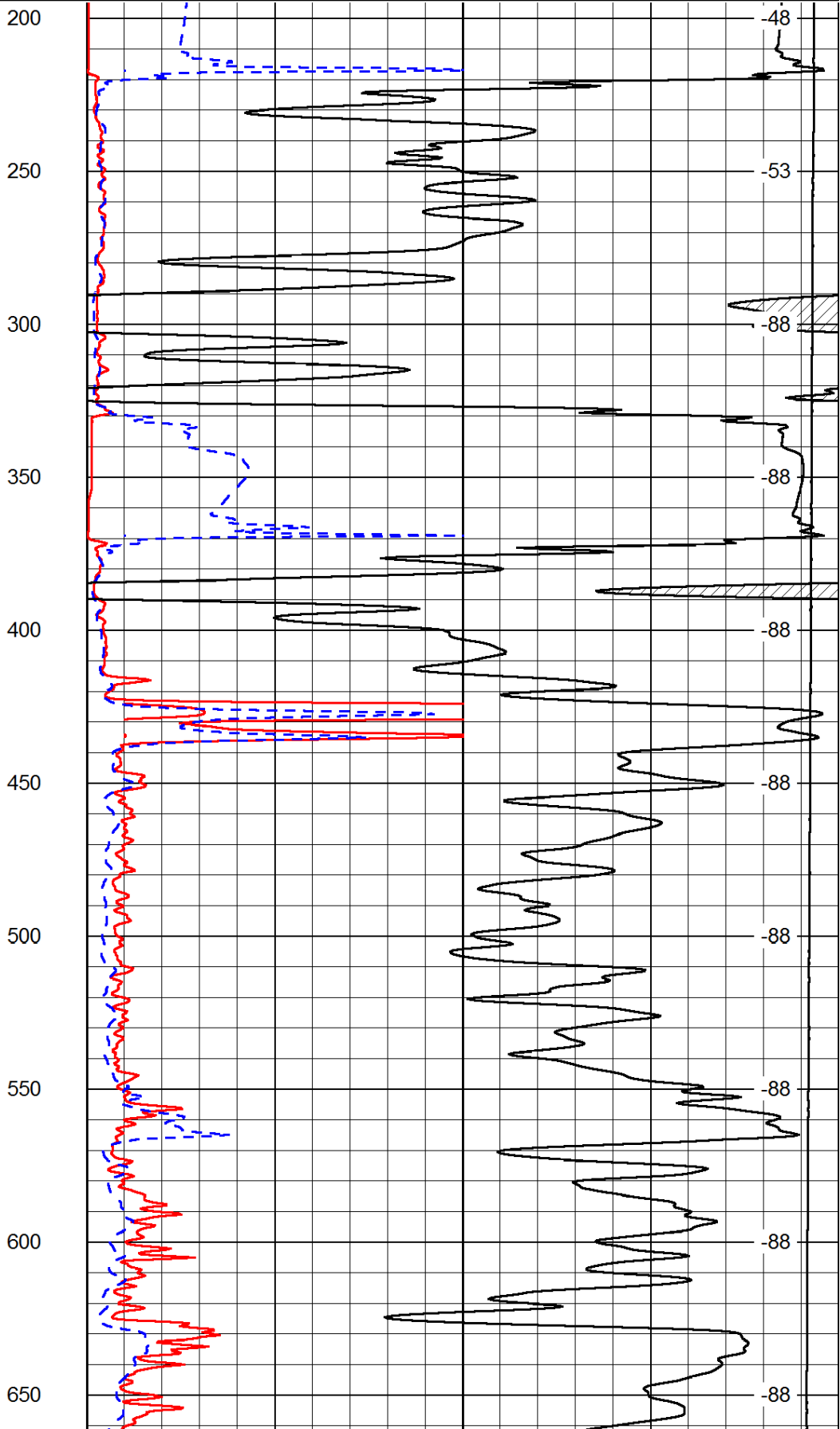
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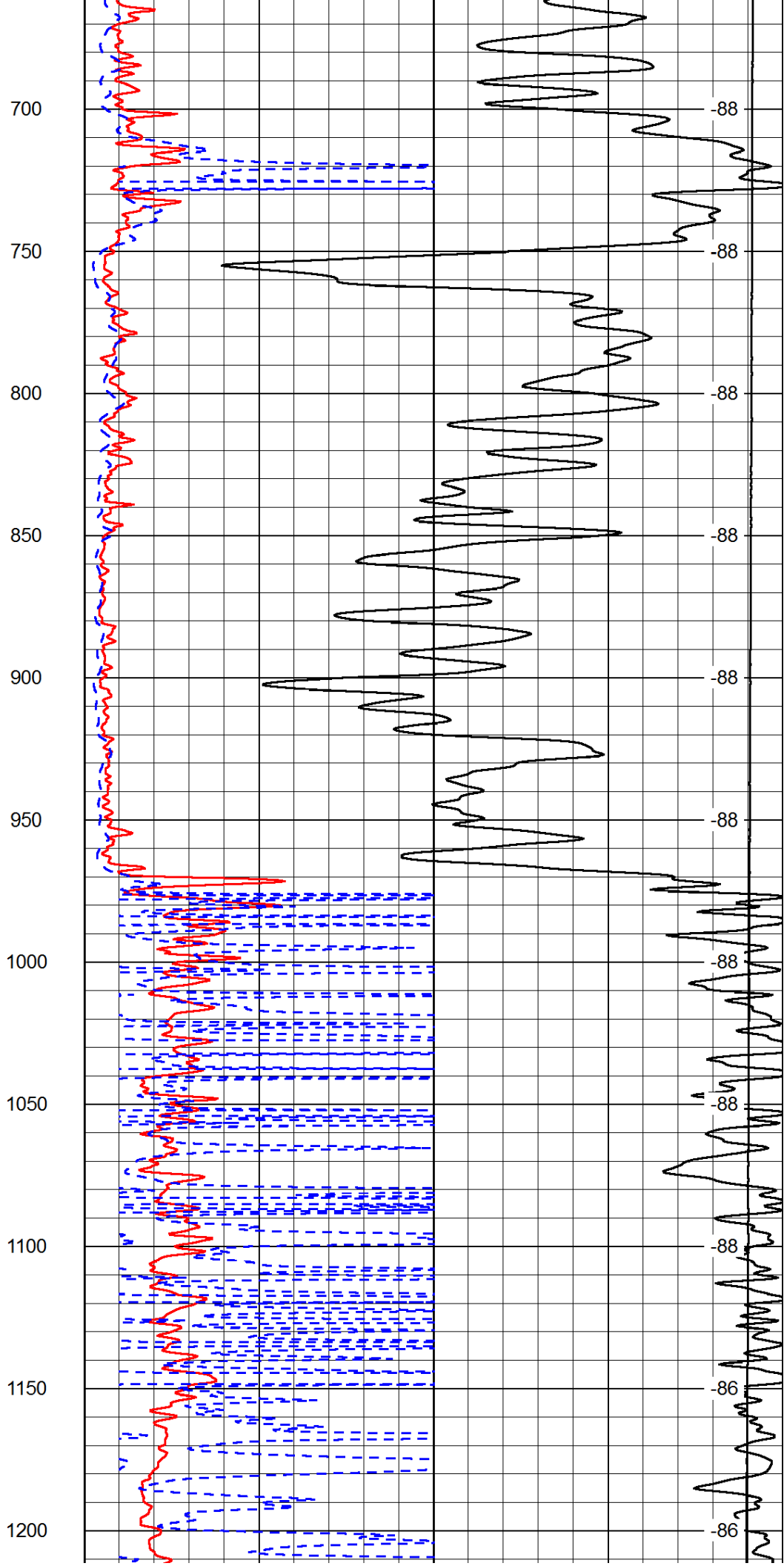
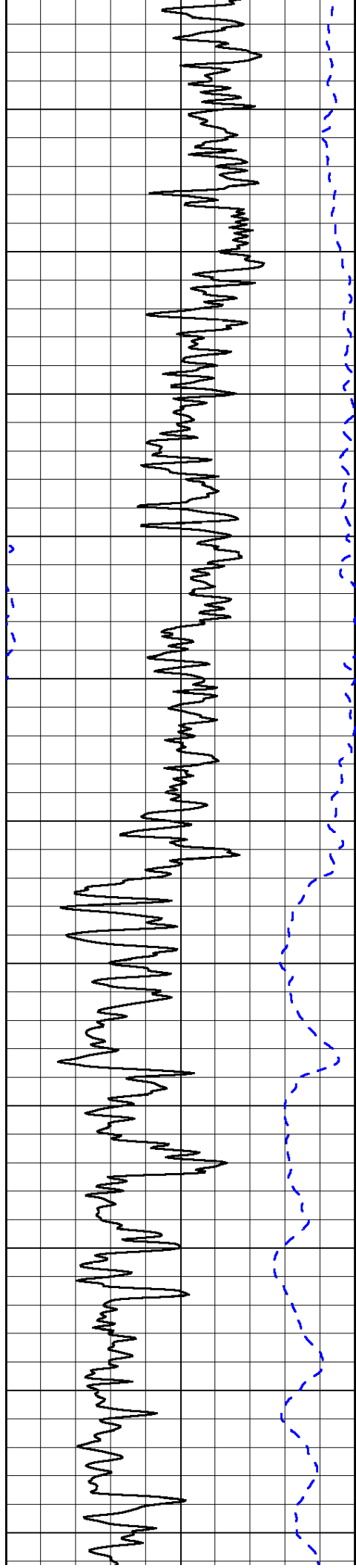
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-200	SP (mV)	0

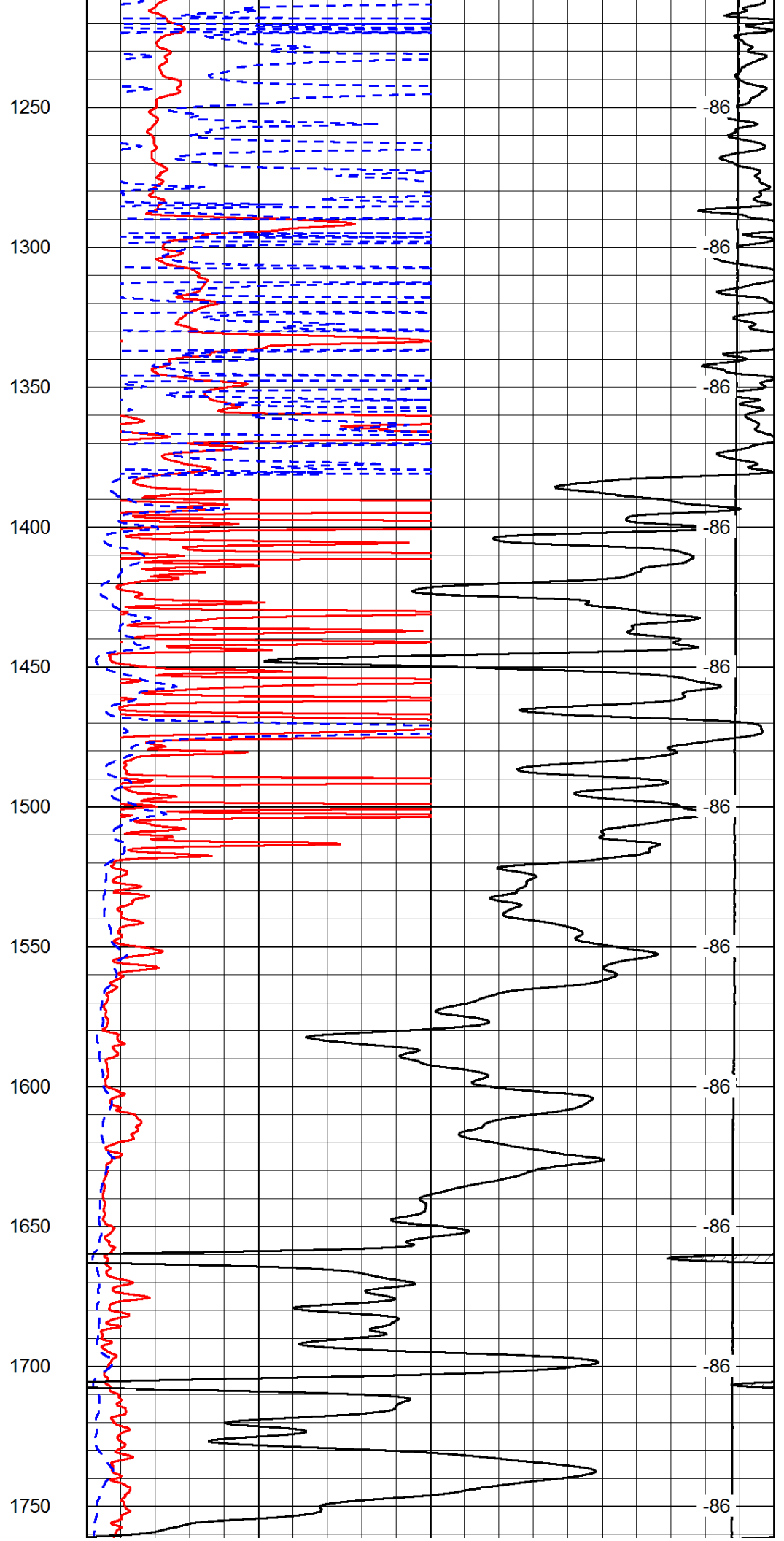
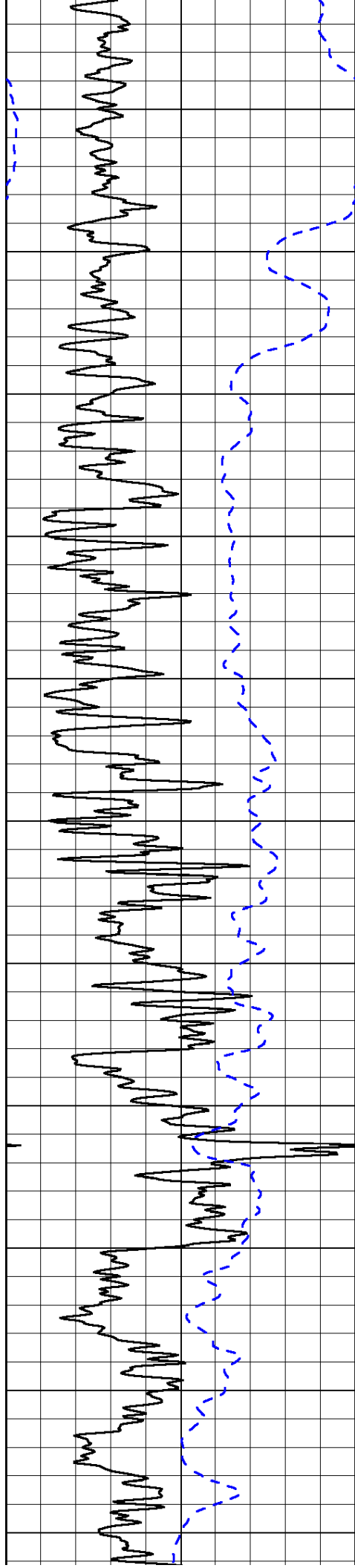


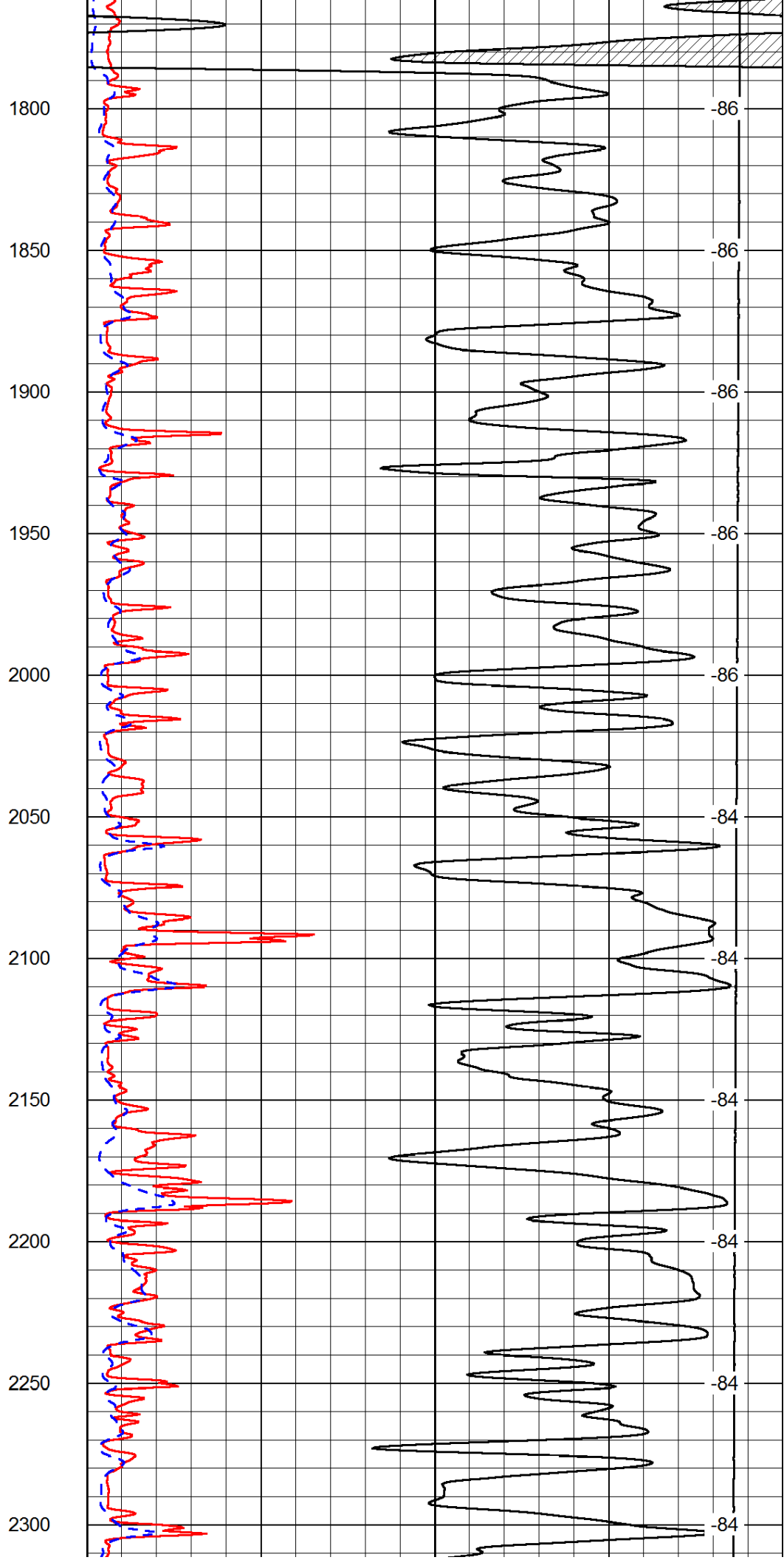
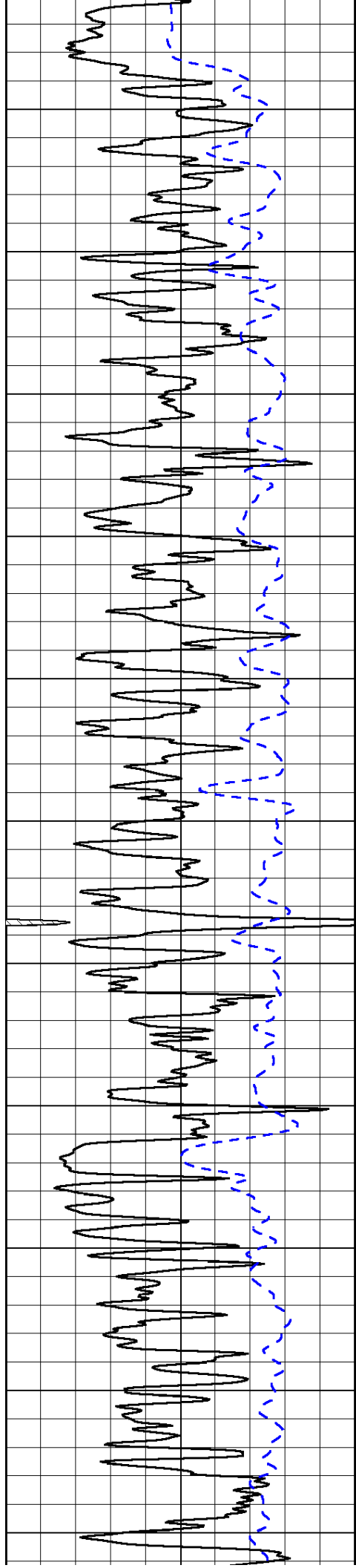
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

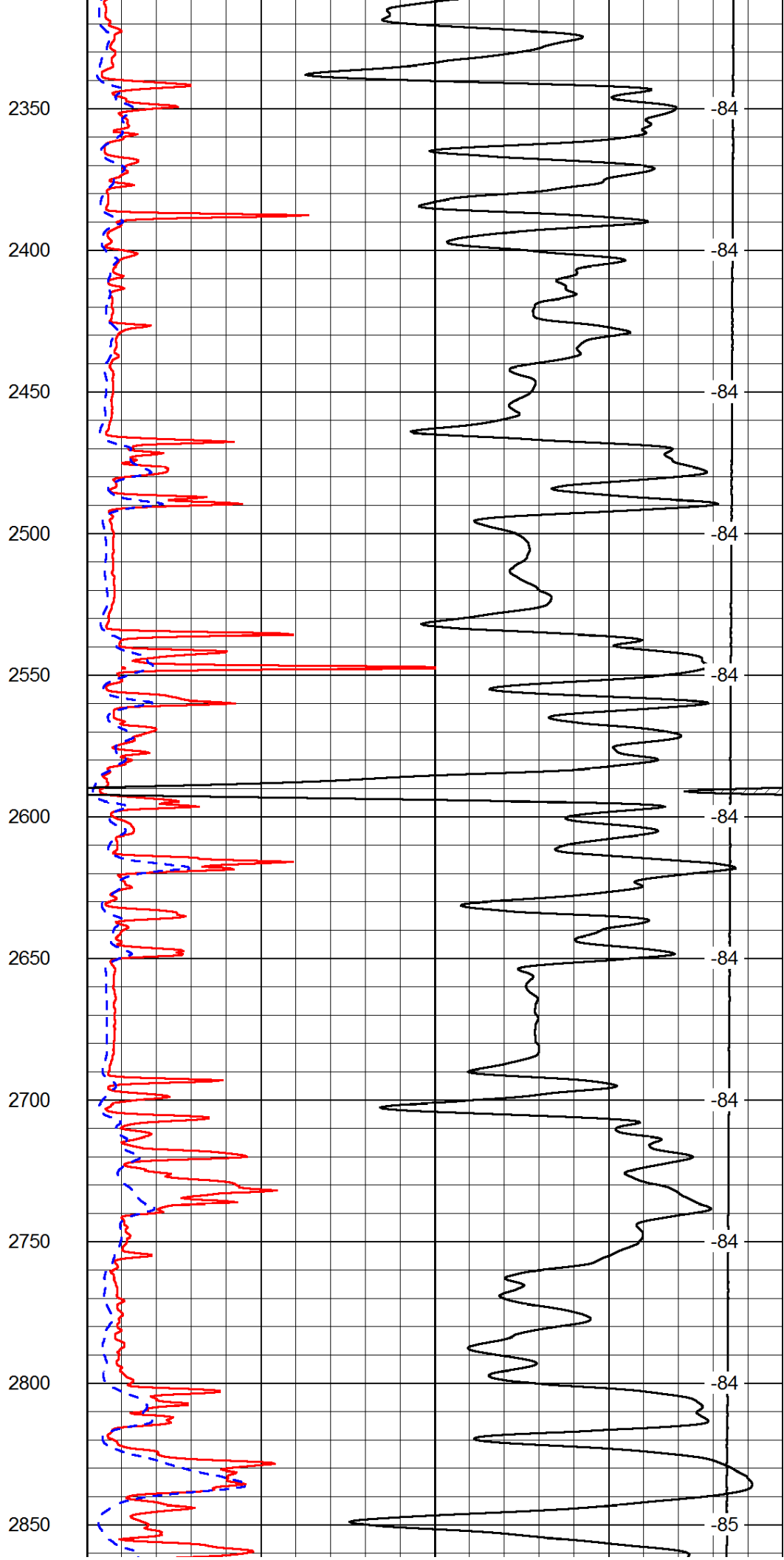
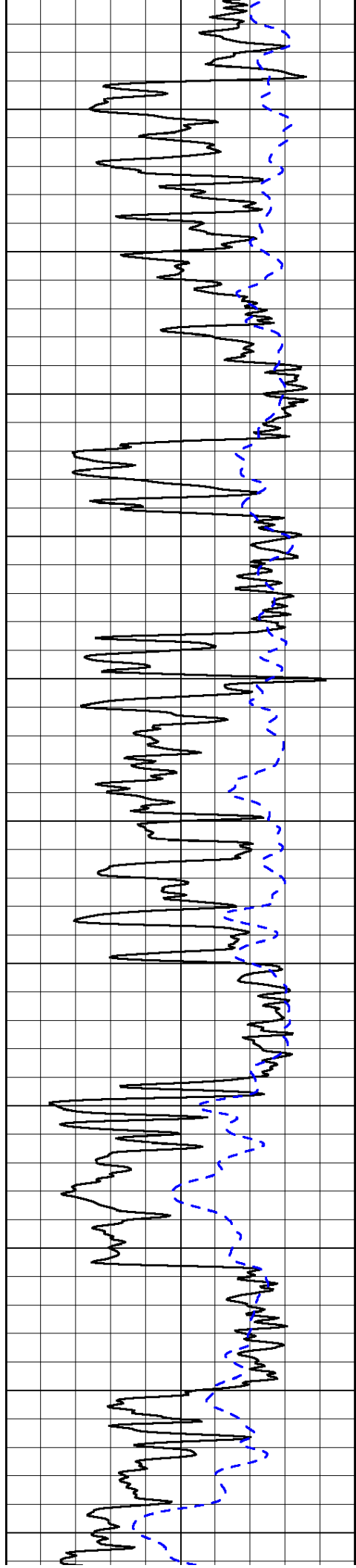
LSPD
0
0

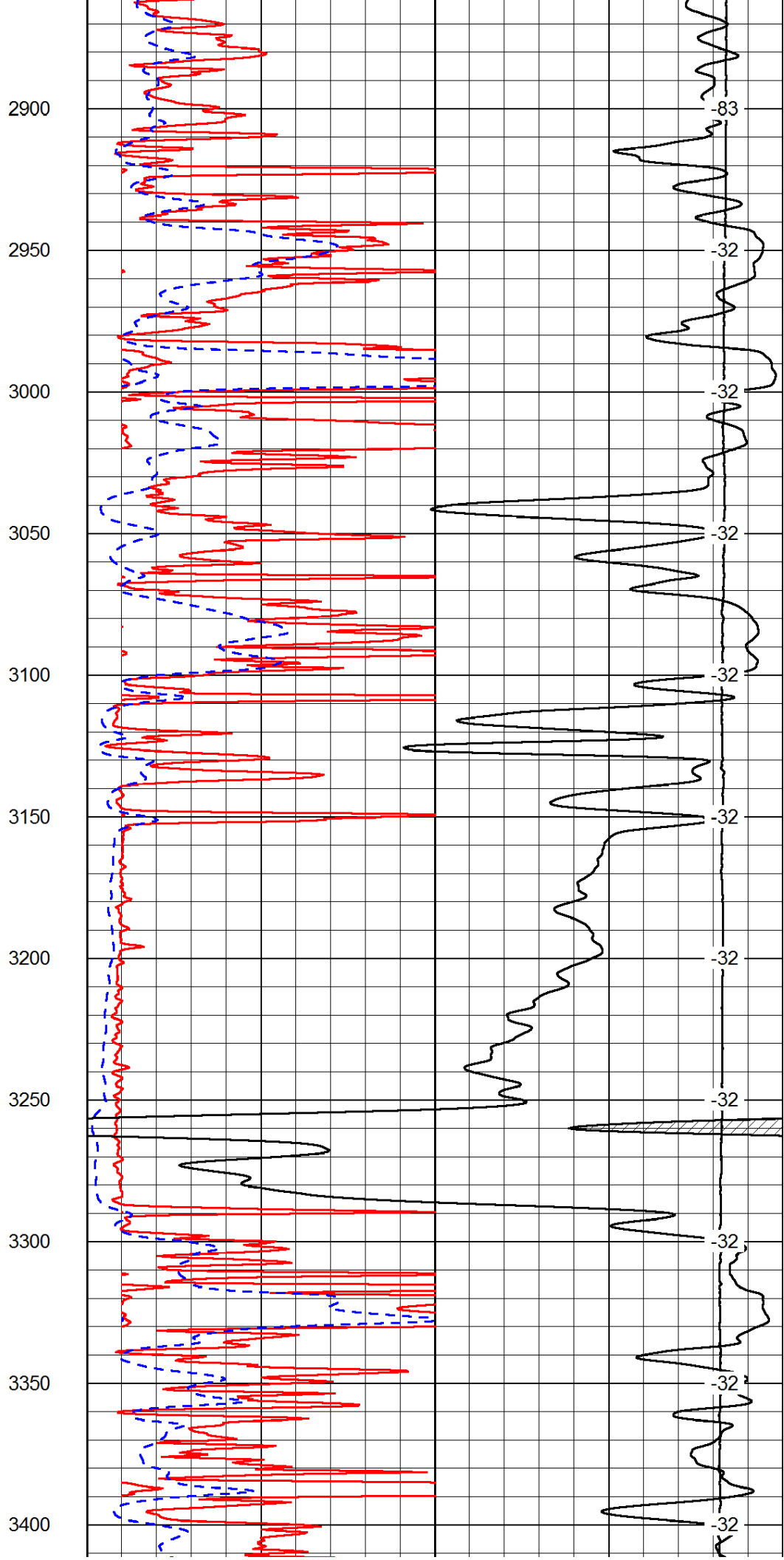
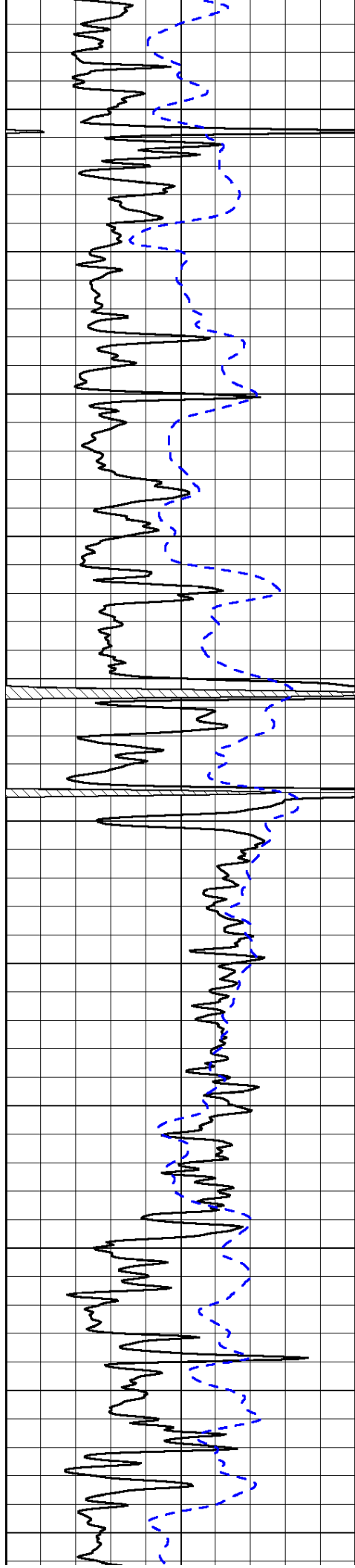


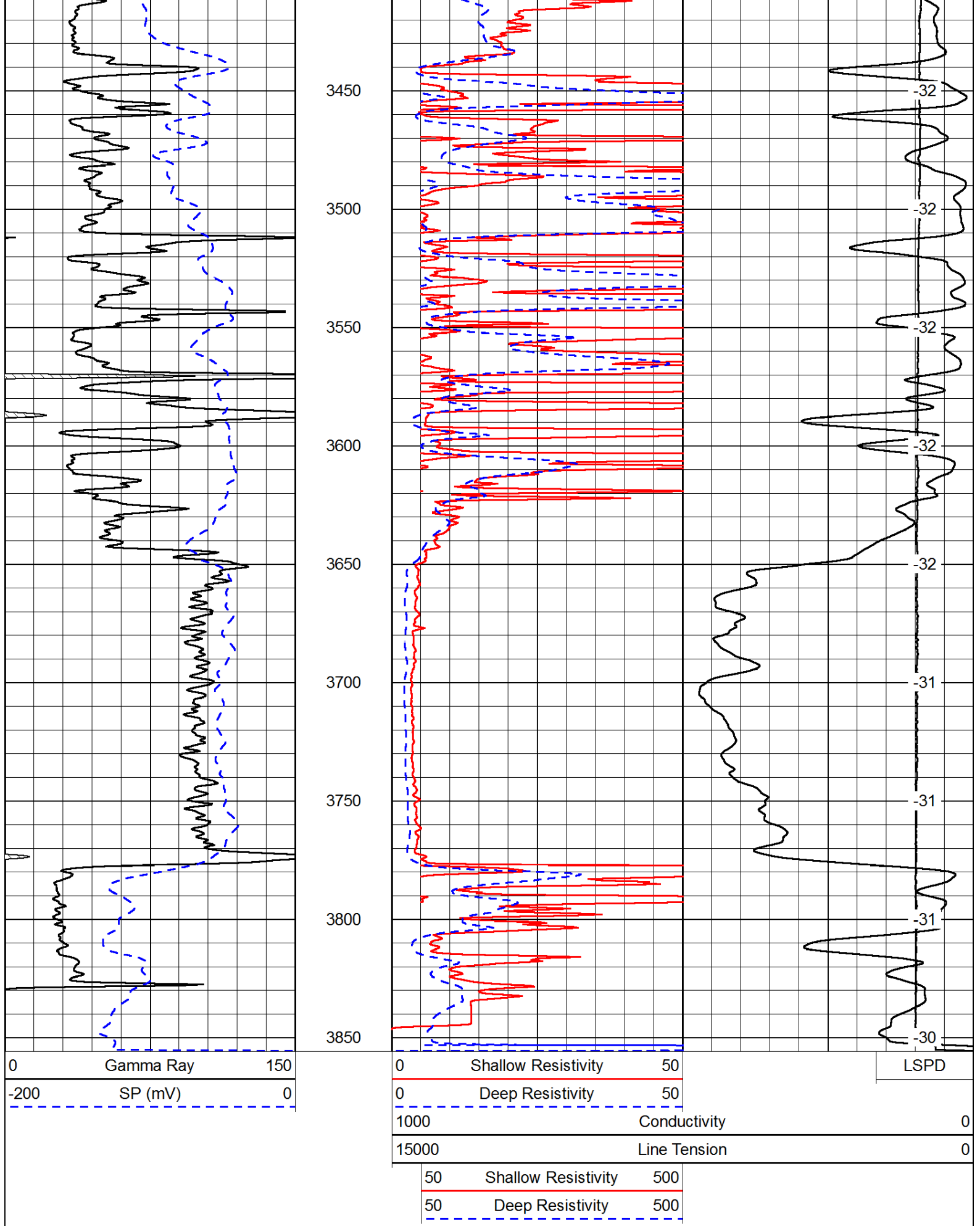










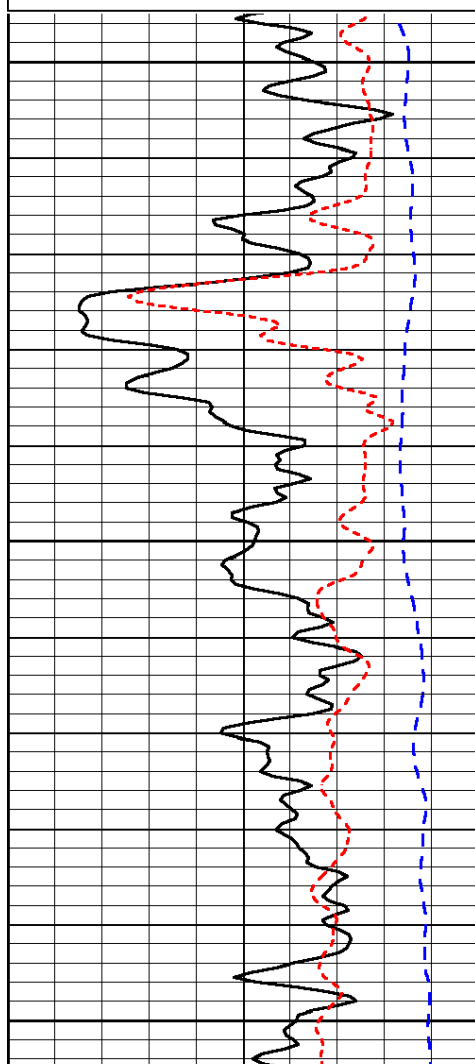


Database File: dil
Dataset Creation: Wed Jul 09 02:04:36 2014
Charted by: Depth in Feet scaled 1:240

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

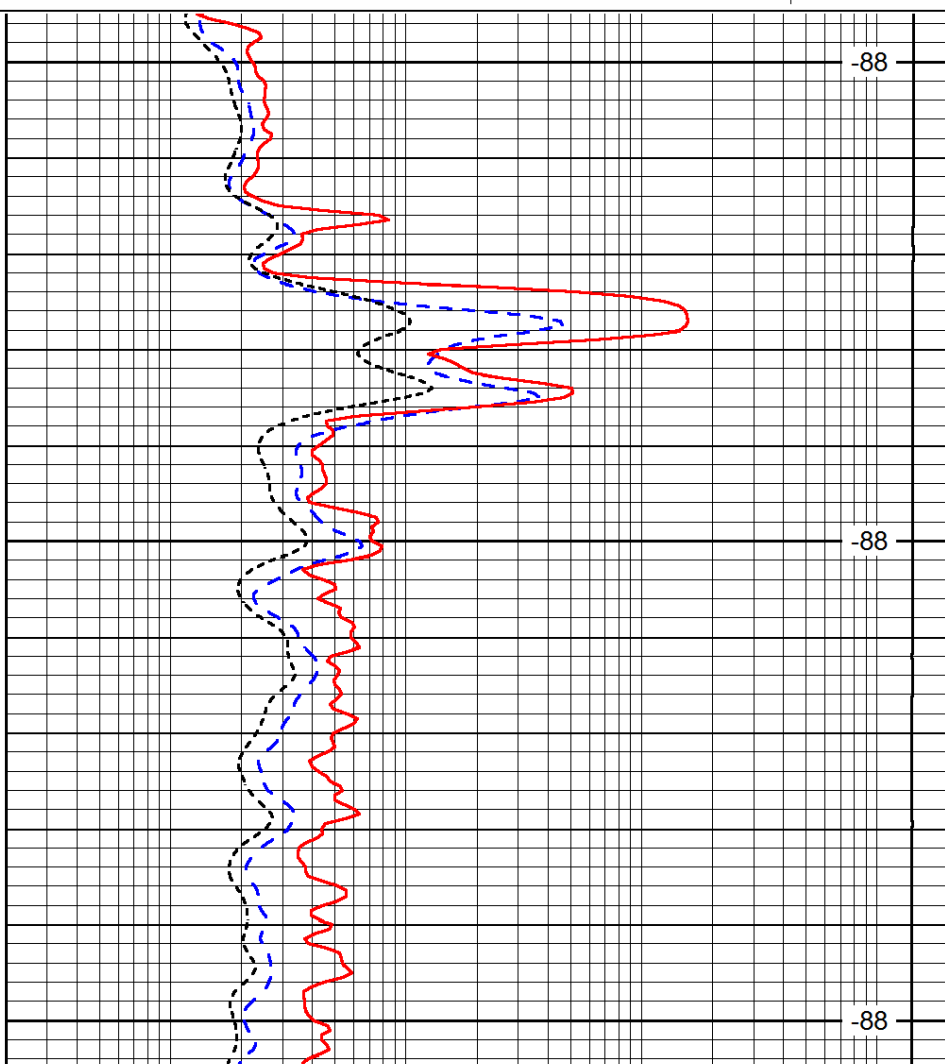
LSPD



400

450

500



-88

-88

-88

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

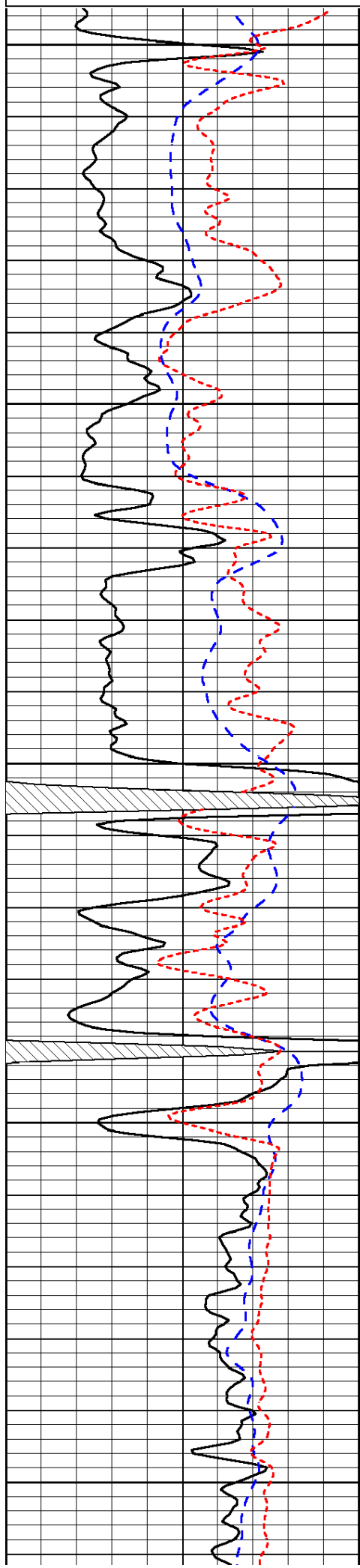
LSPD

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

LSPD



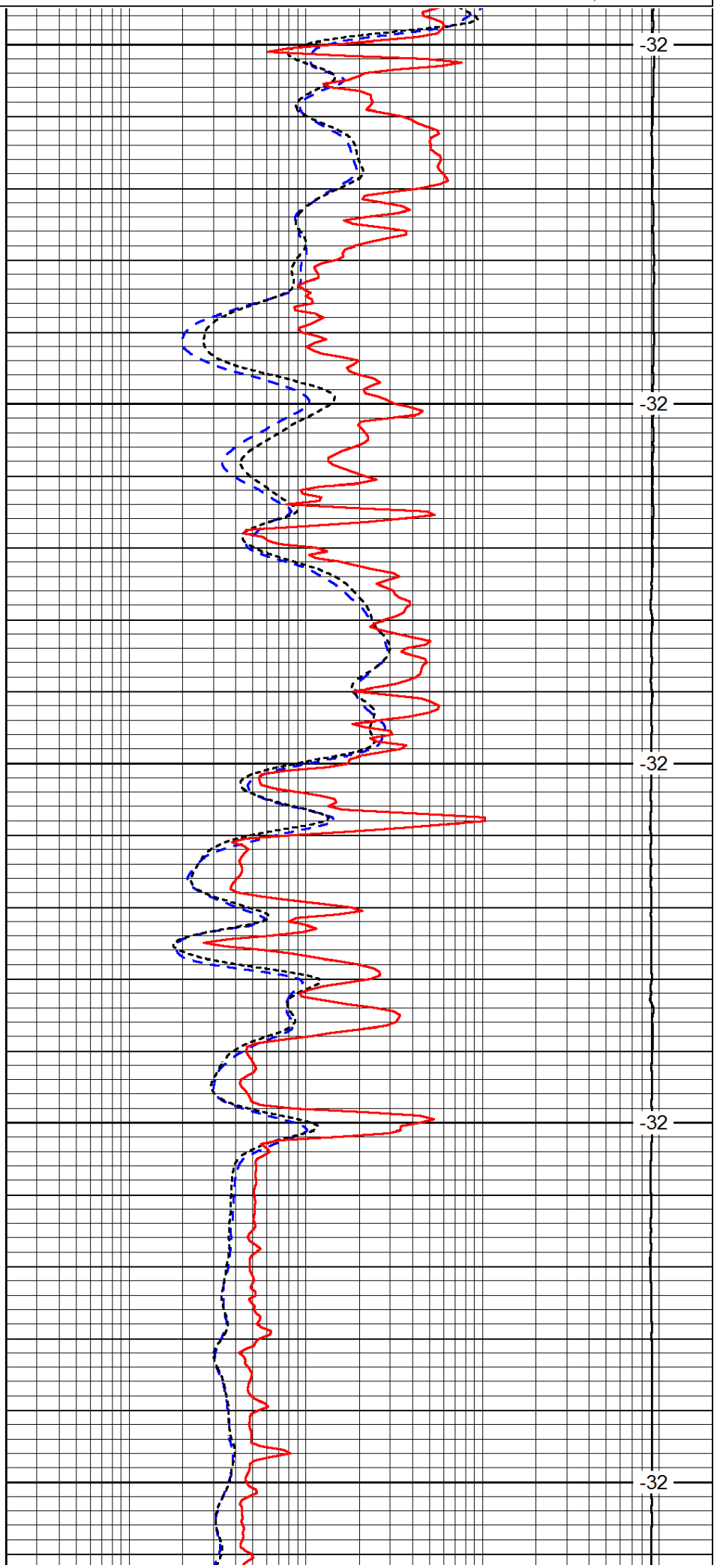
3000

3050

3100

3150

3200



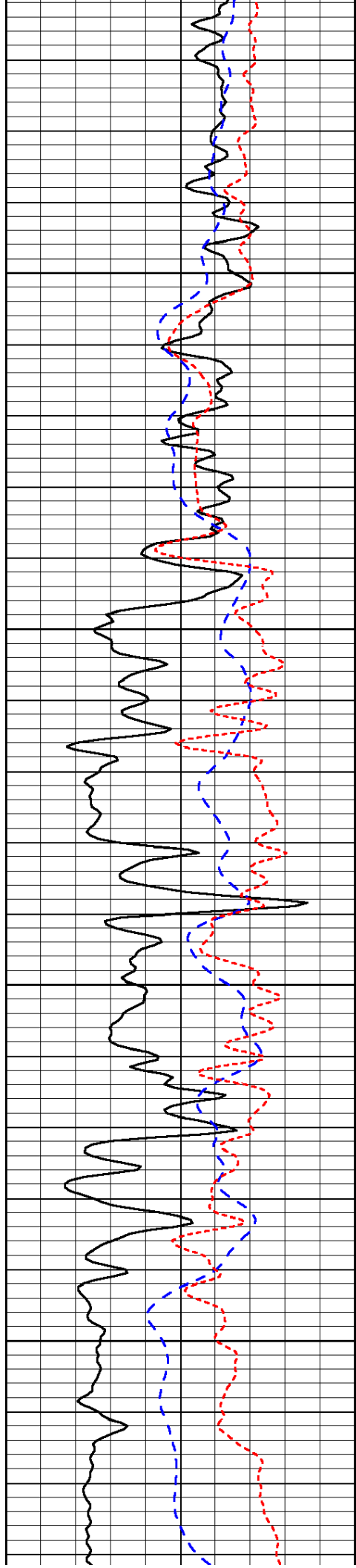
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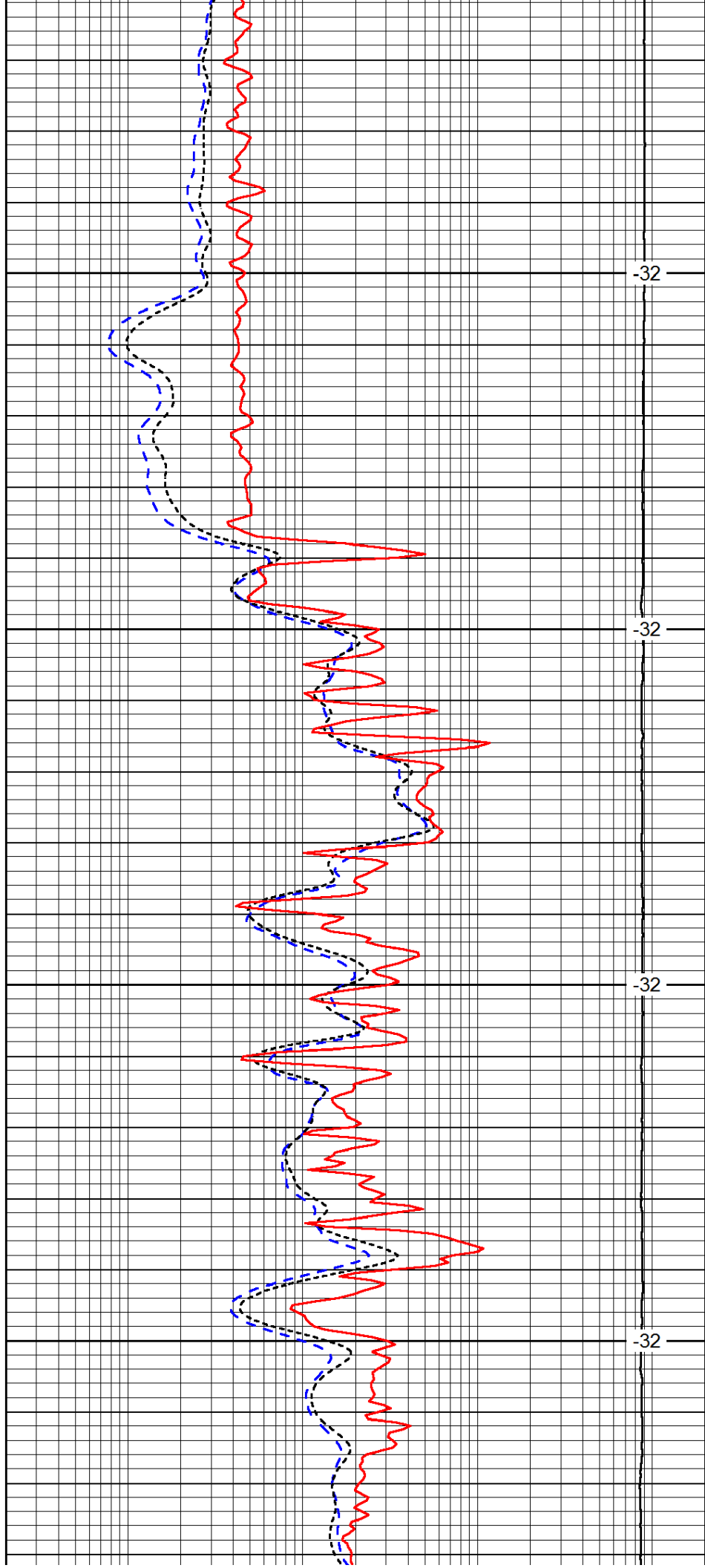


3250

3300

3350

3400

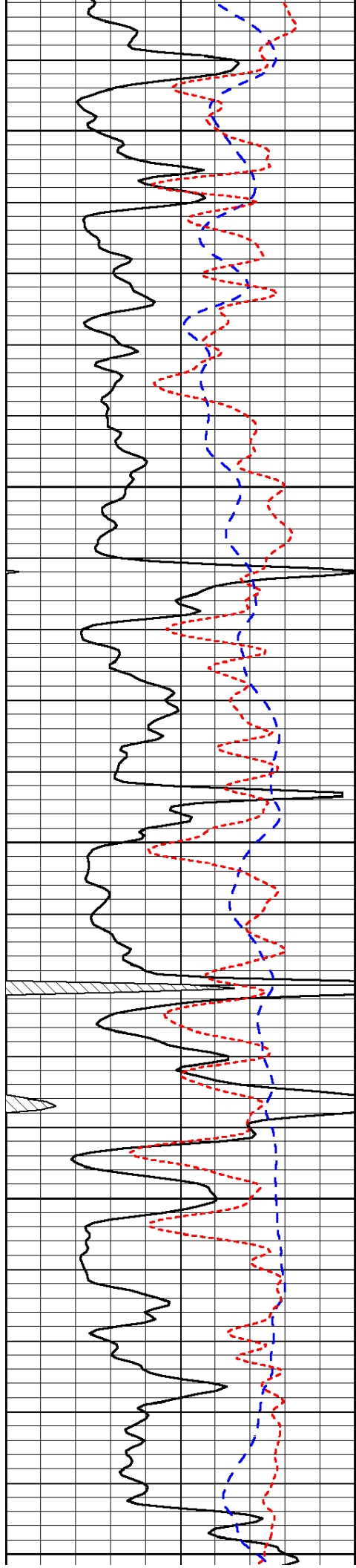


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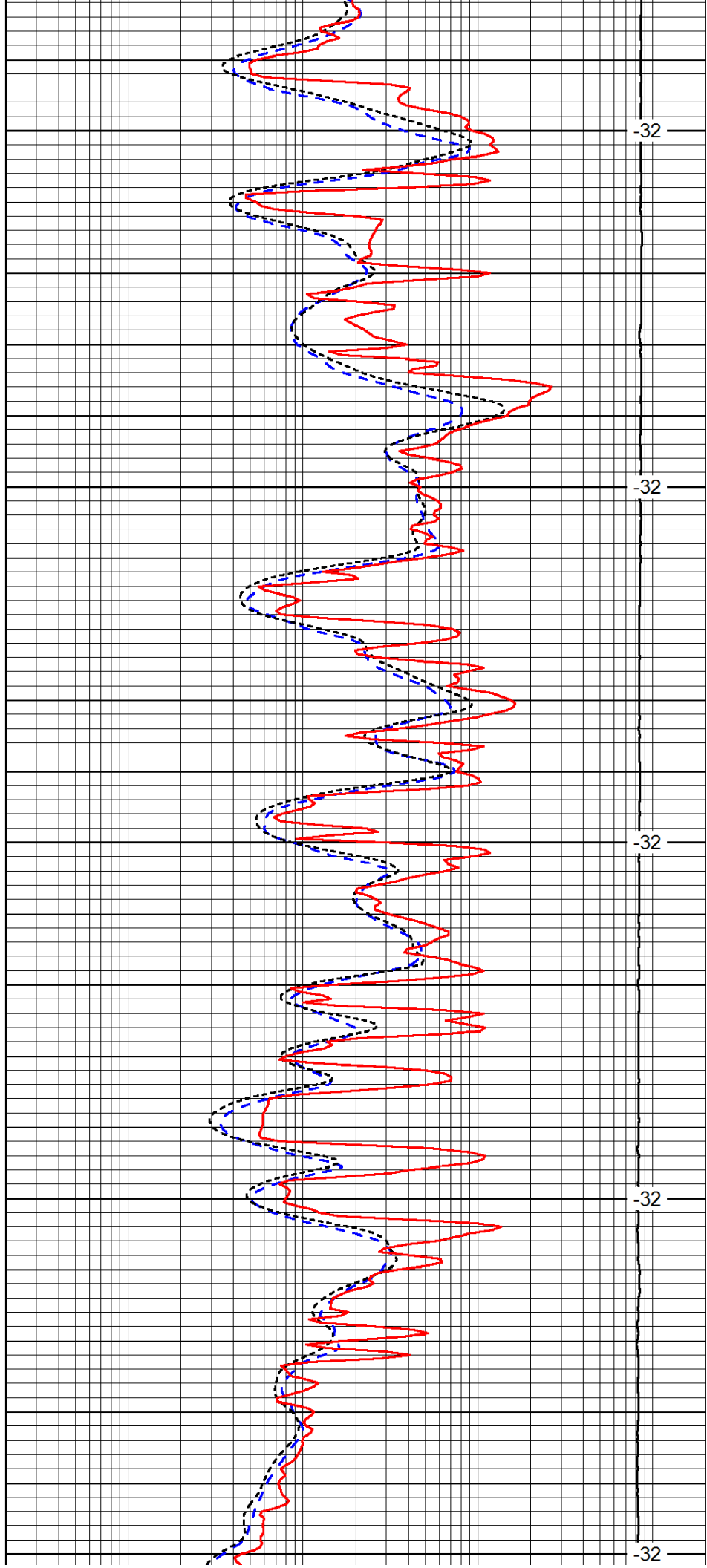
3450

3500

3550

3600

3650



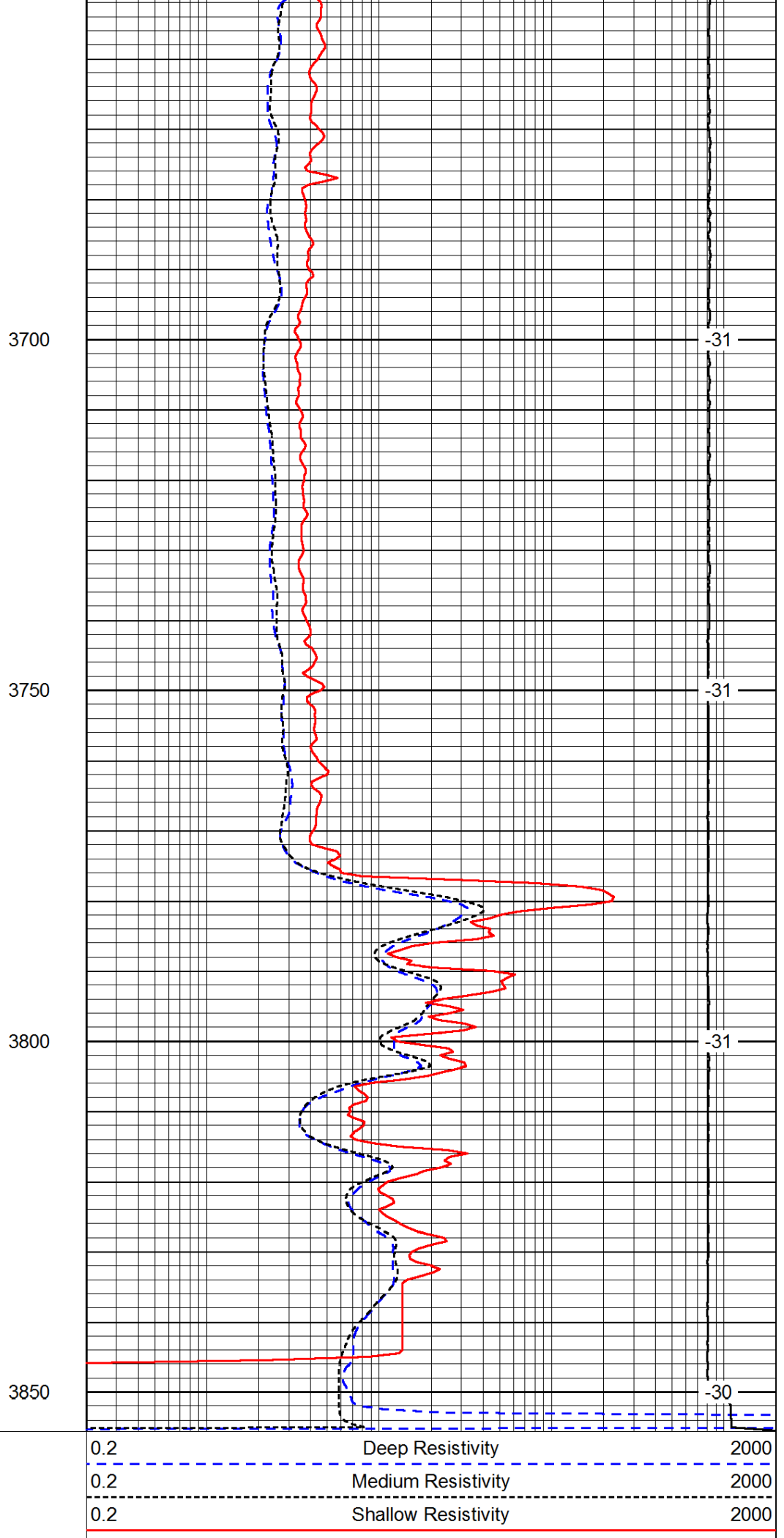
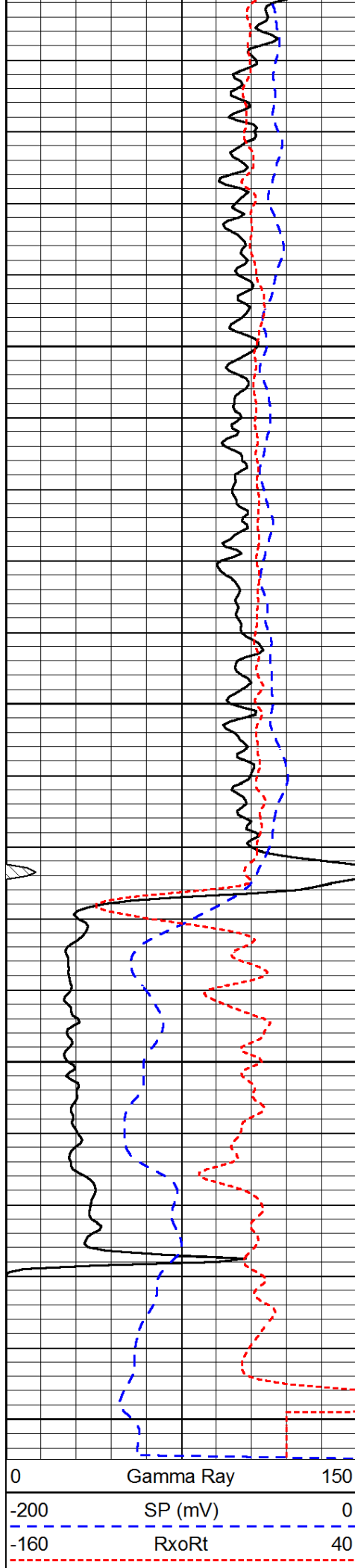
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	15000	Line tension	0
			LSPD