



# Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-101-22206-00-00		
Company	Larson Engineering, Inc.		
Well	Suppes No. 1-19		
Field	Wildcat		
County	Lane	State	Kansas
Location	800' FSL & 840' FEL		
Sec:	19	Twp:	19 S Rge: 29 W
Permanent Datum	Ground Level	Elevation	2865
Log Measured From	Kelly Bushing	5	Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing		
		Other Services	CNL/CDL MEL
		Elevation	K.B. 2870 D.F. 2865 G.L. 2865

Date	12/11/2009	
Run Number	One	
Depth Driller	4642	
Depth Logger	4645	
Bottom Logged Interval	4644	
Top Log Interval	200	
Casing Driller	8.625 @ 260	
Casing Logger	258	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	2.300	
Density / Viscosity	9.2	54
pH / Fluid Loss	10.5	7.6
Source of Sample	Flowline	
Rm @ Meas. Temp	1.90 @ 60	
Rmf @ Meas. Temp	1.43 @ 60	
Rmc @ Meas. Temp	2.57 @ 60	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.93 @ 122	
Operating Rig Time	4 Hours	
Max Rec. Temp. F	122	
Equipment Number	15	
Location	Hays	
Recorded By	B. Becker	
Witnessed By	Bob Lowell/n	

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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 Log-Tech, Inc.  
 (785) 625-3858

Dighton, Ks; 5 West to Gage Rd;  
 6-1/2 South; West Into

Database File: c:\warrior\data\larson\_suppes no. 1-19\larsonhd.db  
 Dataset Pathname: DIL\larstk  
 Presentation Format: dil2in  
 Dataset Creation: Fri Dec 11 16:26:02 2009  
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150  
-200 SP (MV) 0

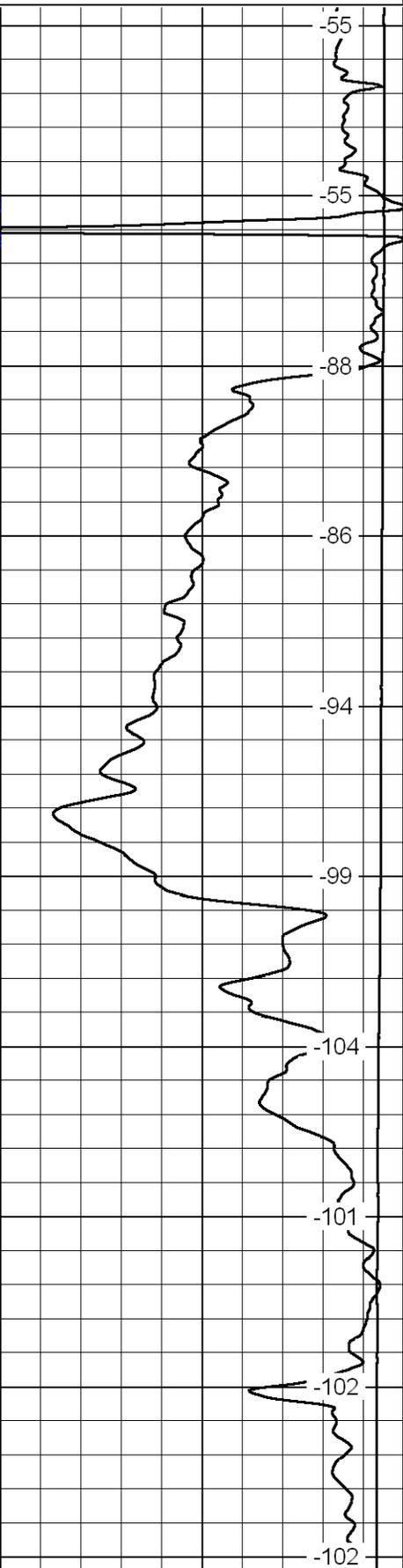
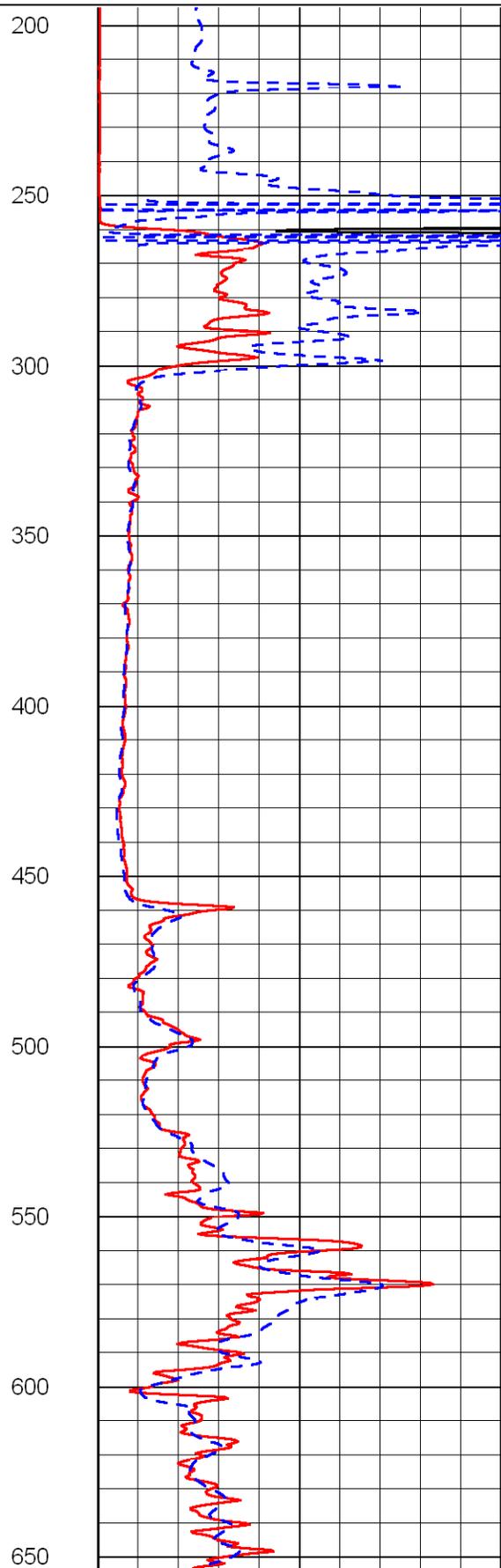
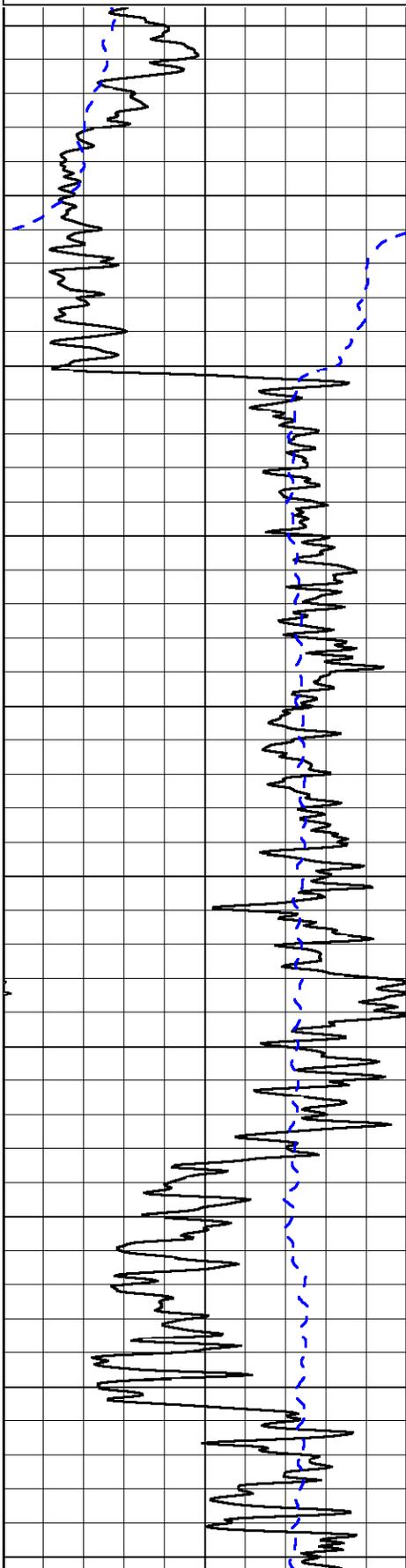
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0 Deep Resistivity (Ohm-m) 50

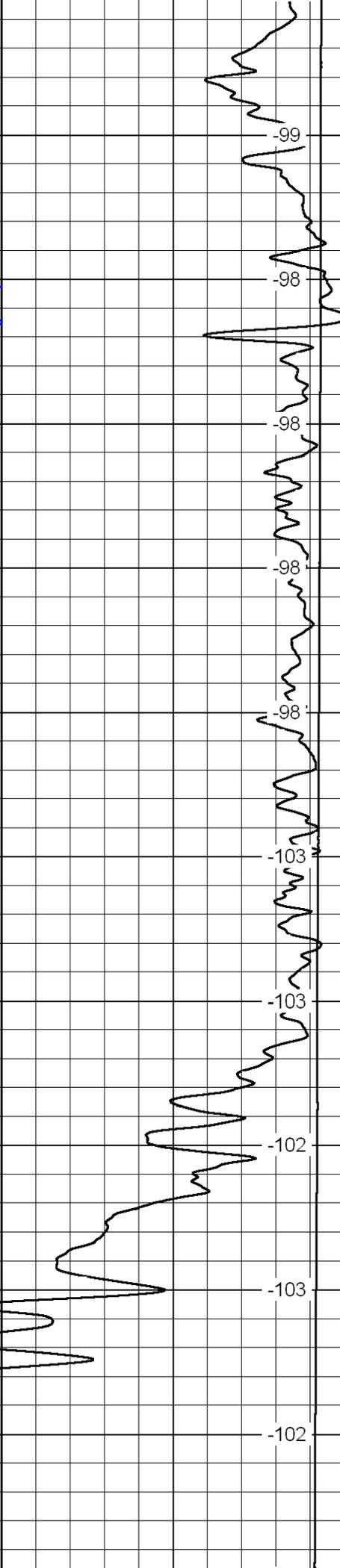
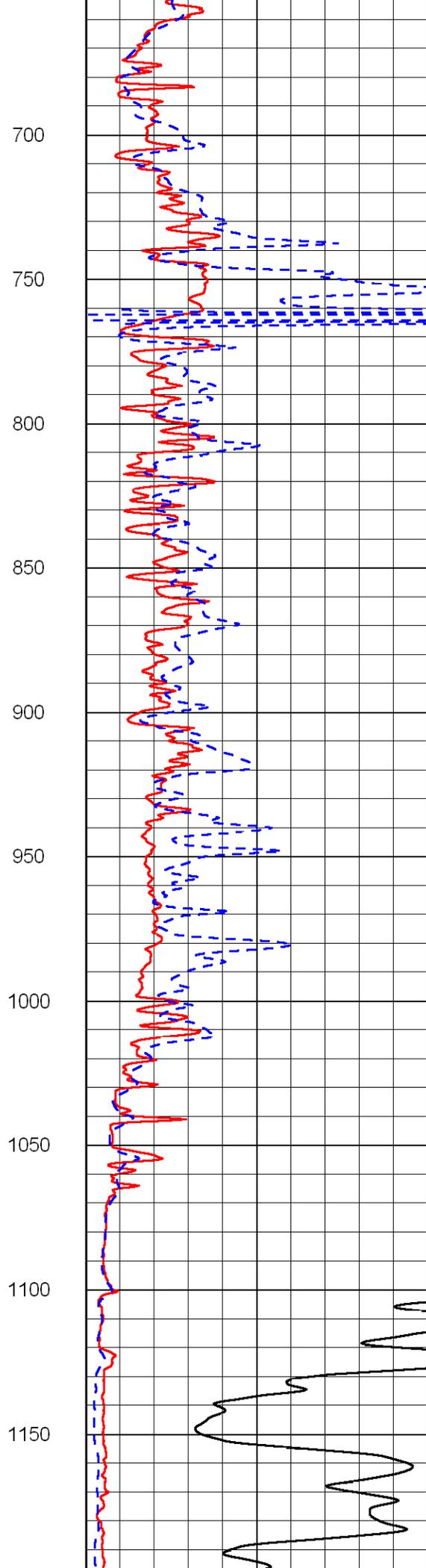
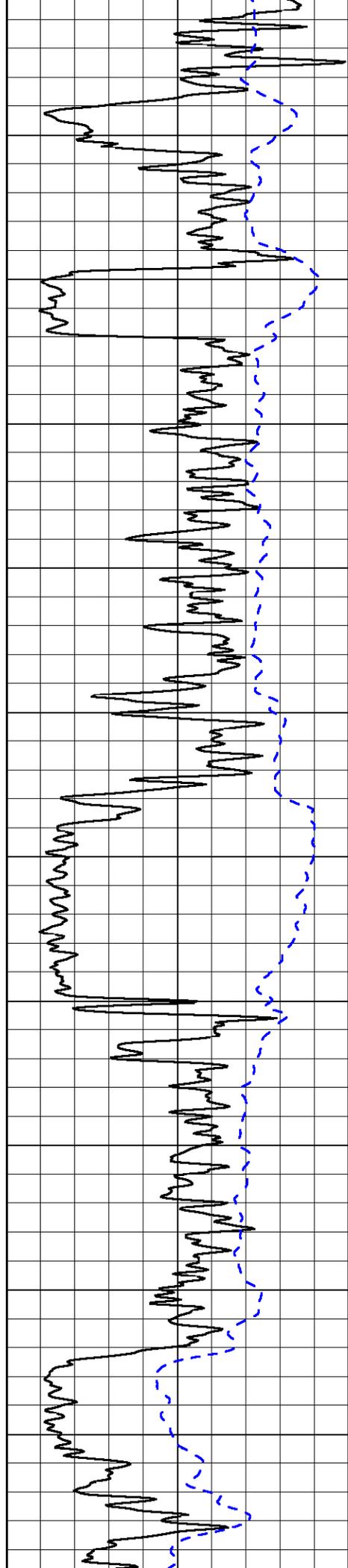
LSPD  
(ft/min)

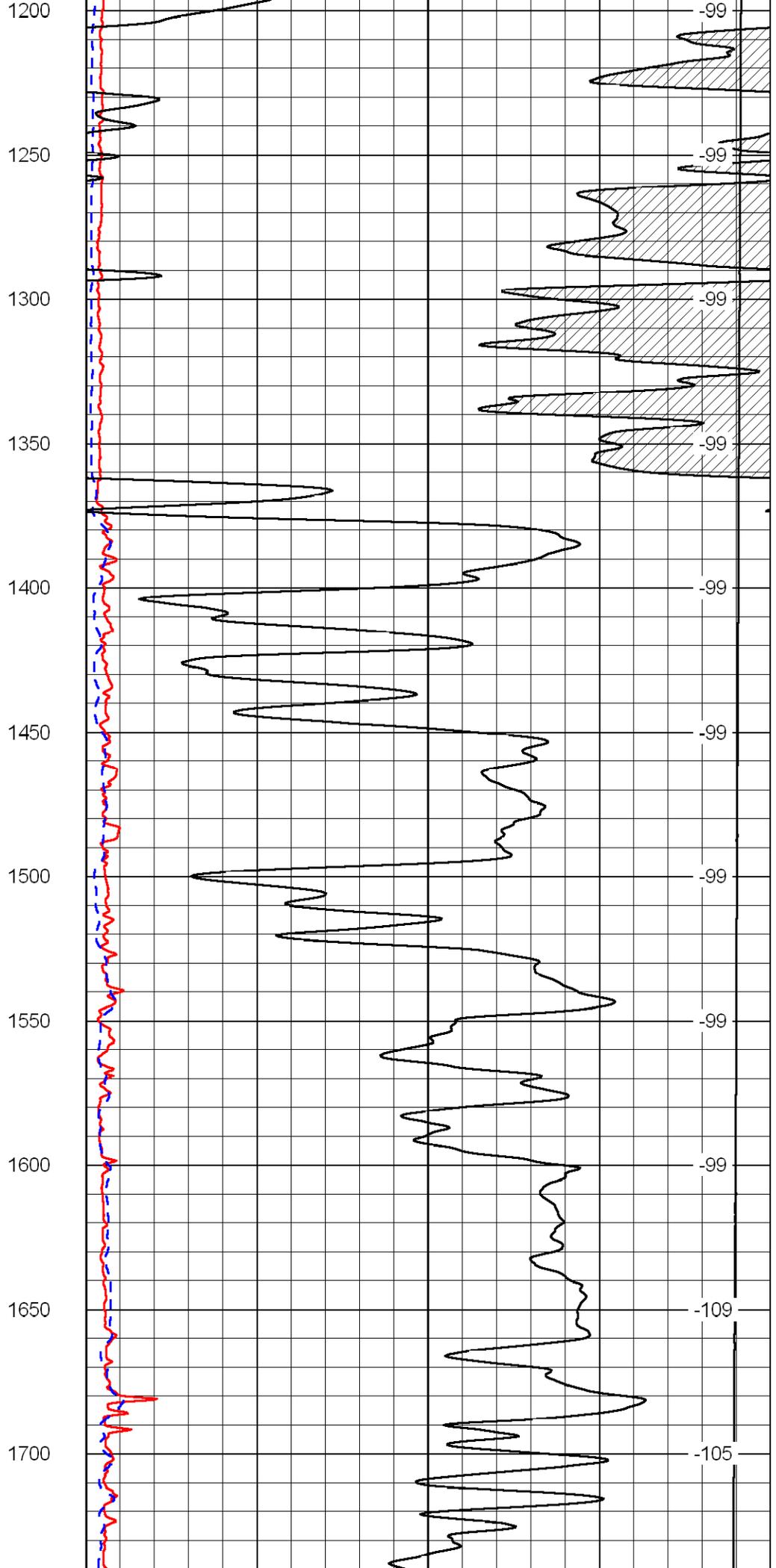
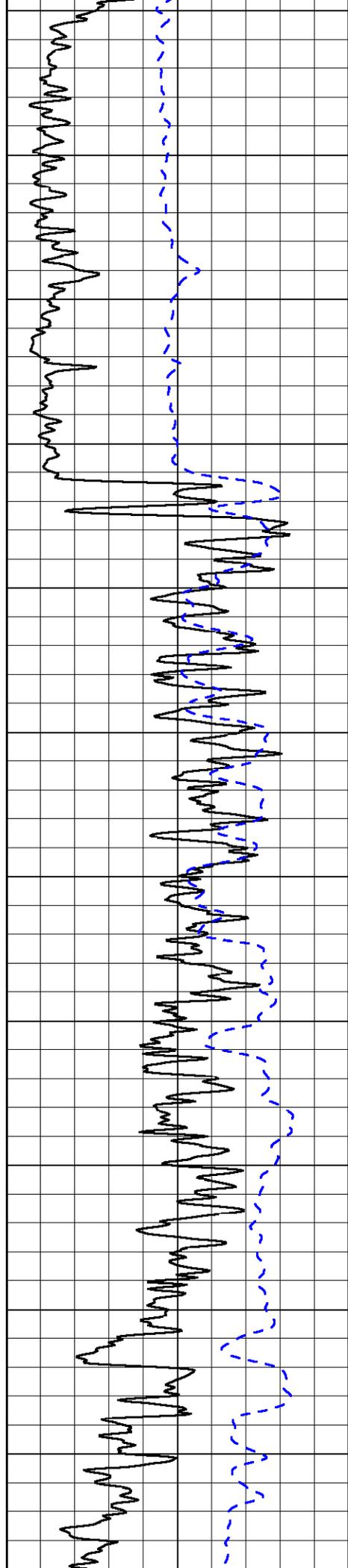
1000 Conductivity (mmho/m) 0

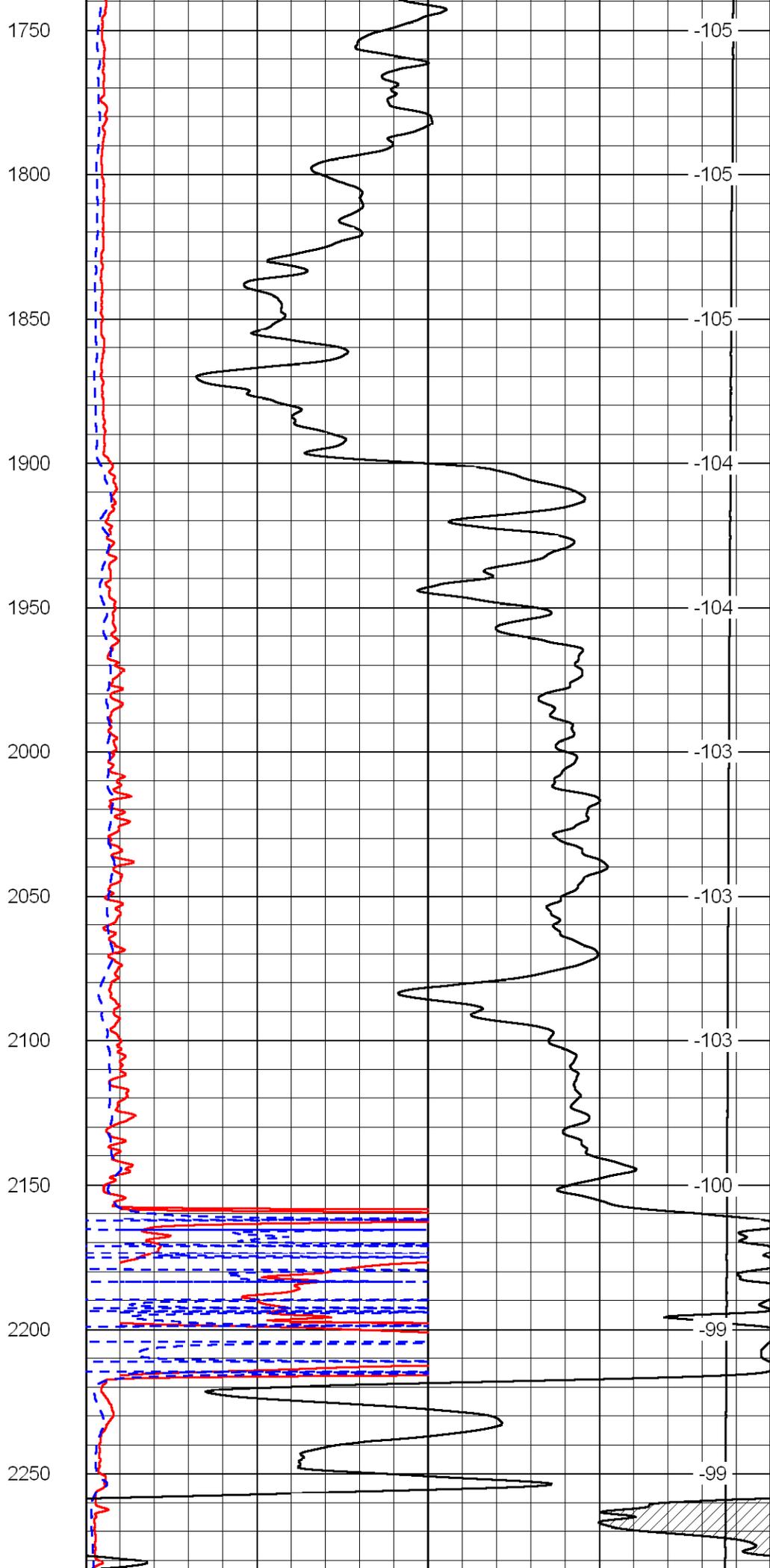
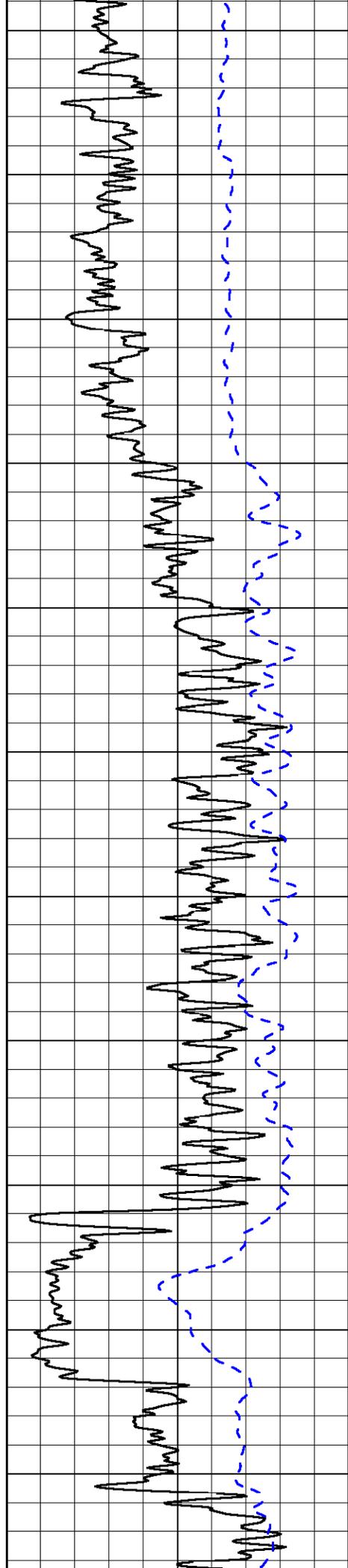
15000 Line Tension (lb) 0

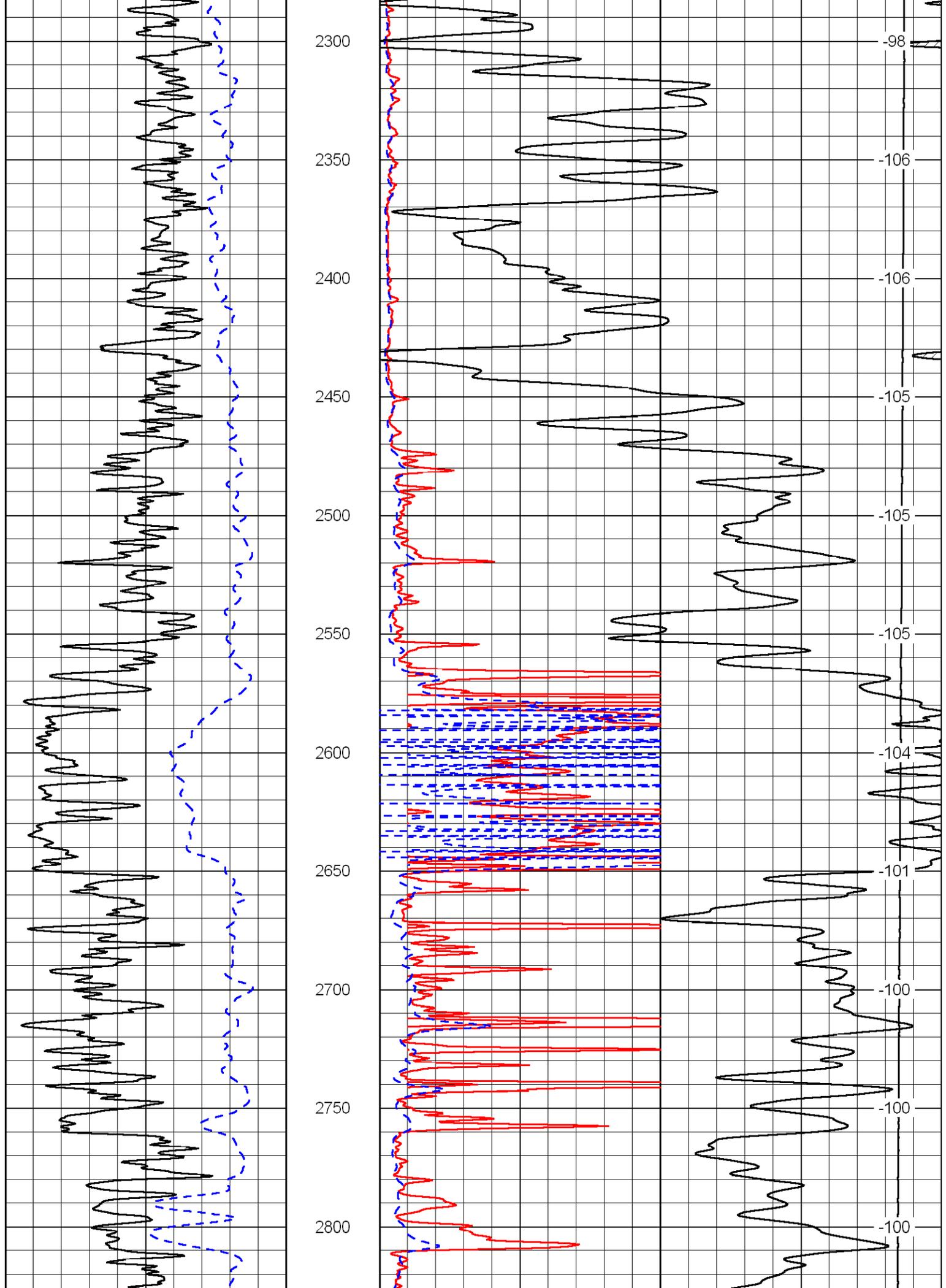
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50 (Ohm-m) 500  
50 Deep Resistivity (Ohm-m) 500

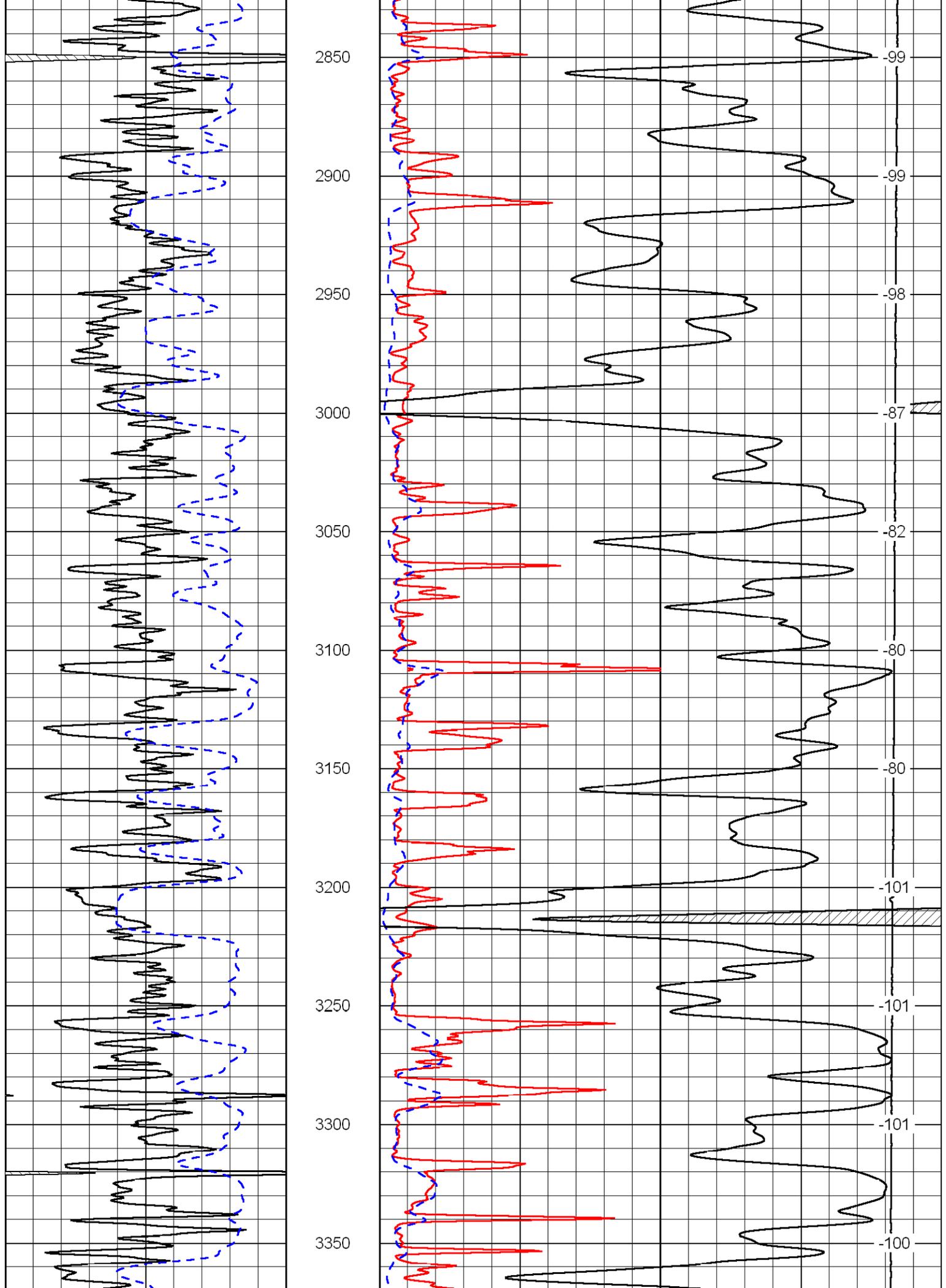


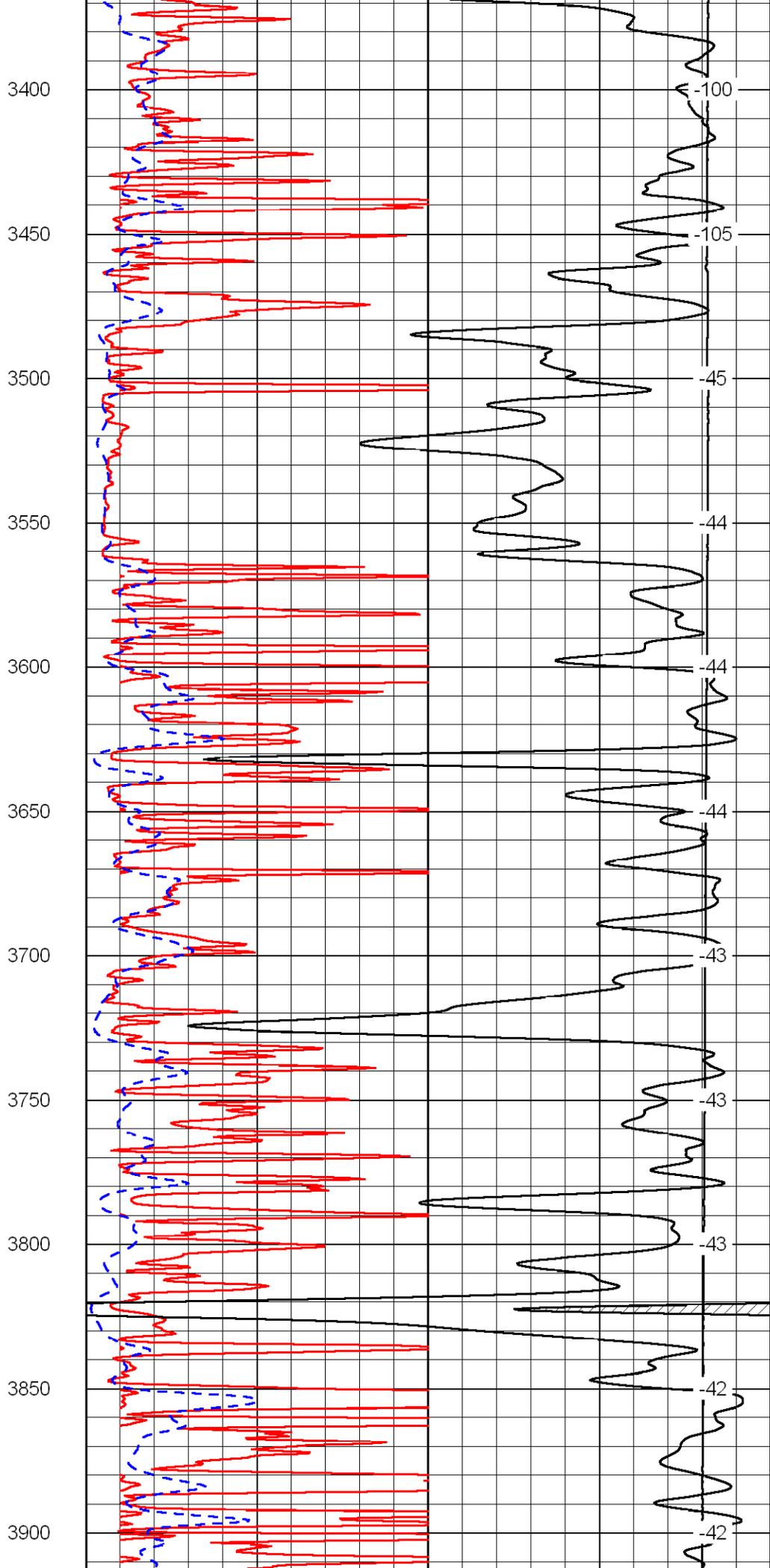
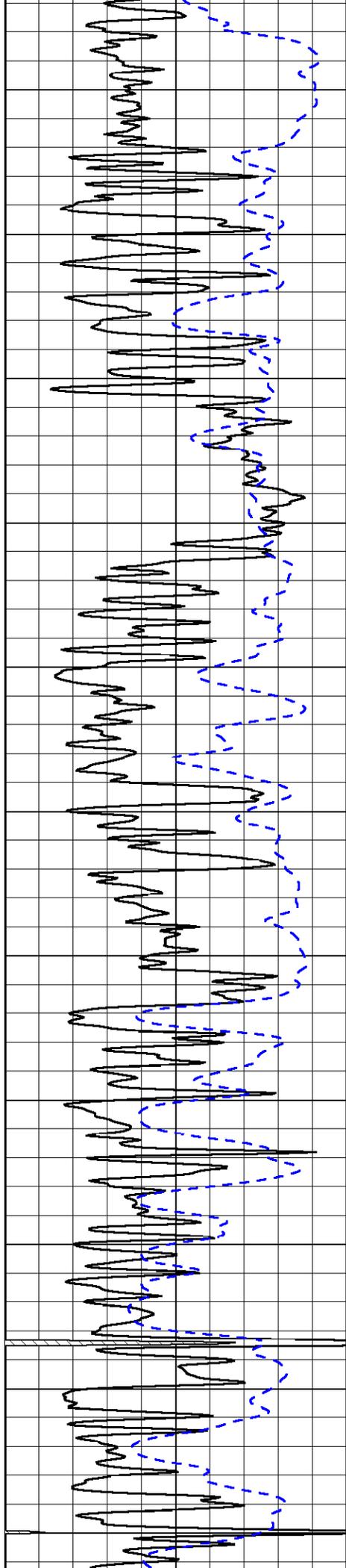


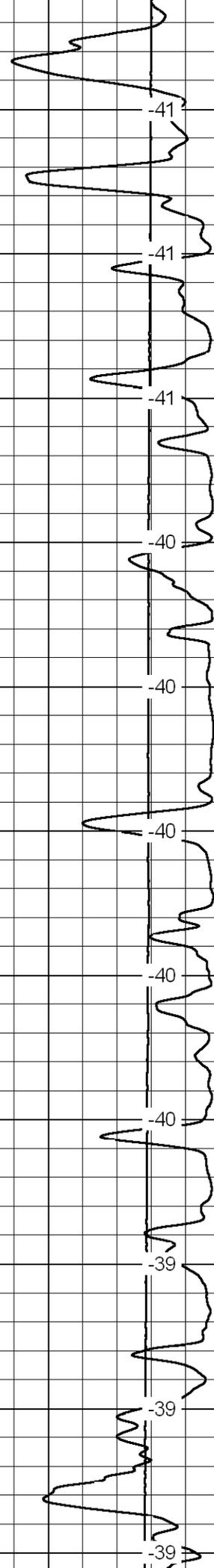
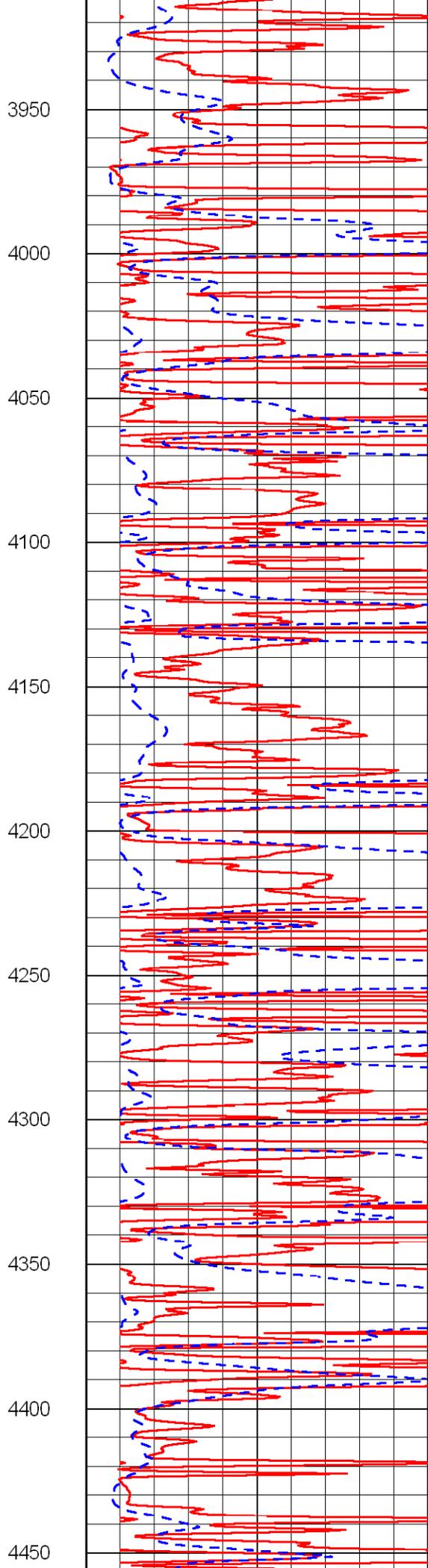
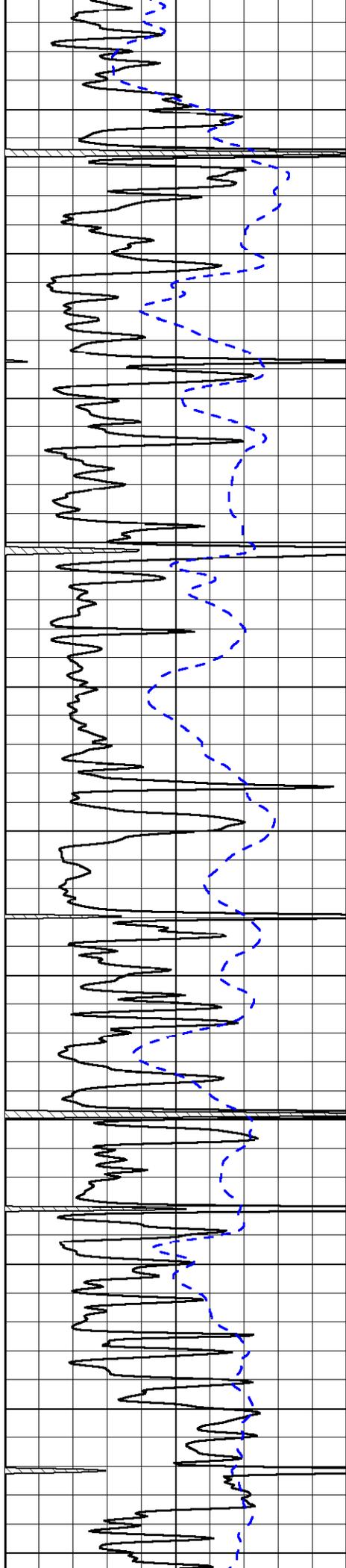


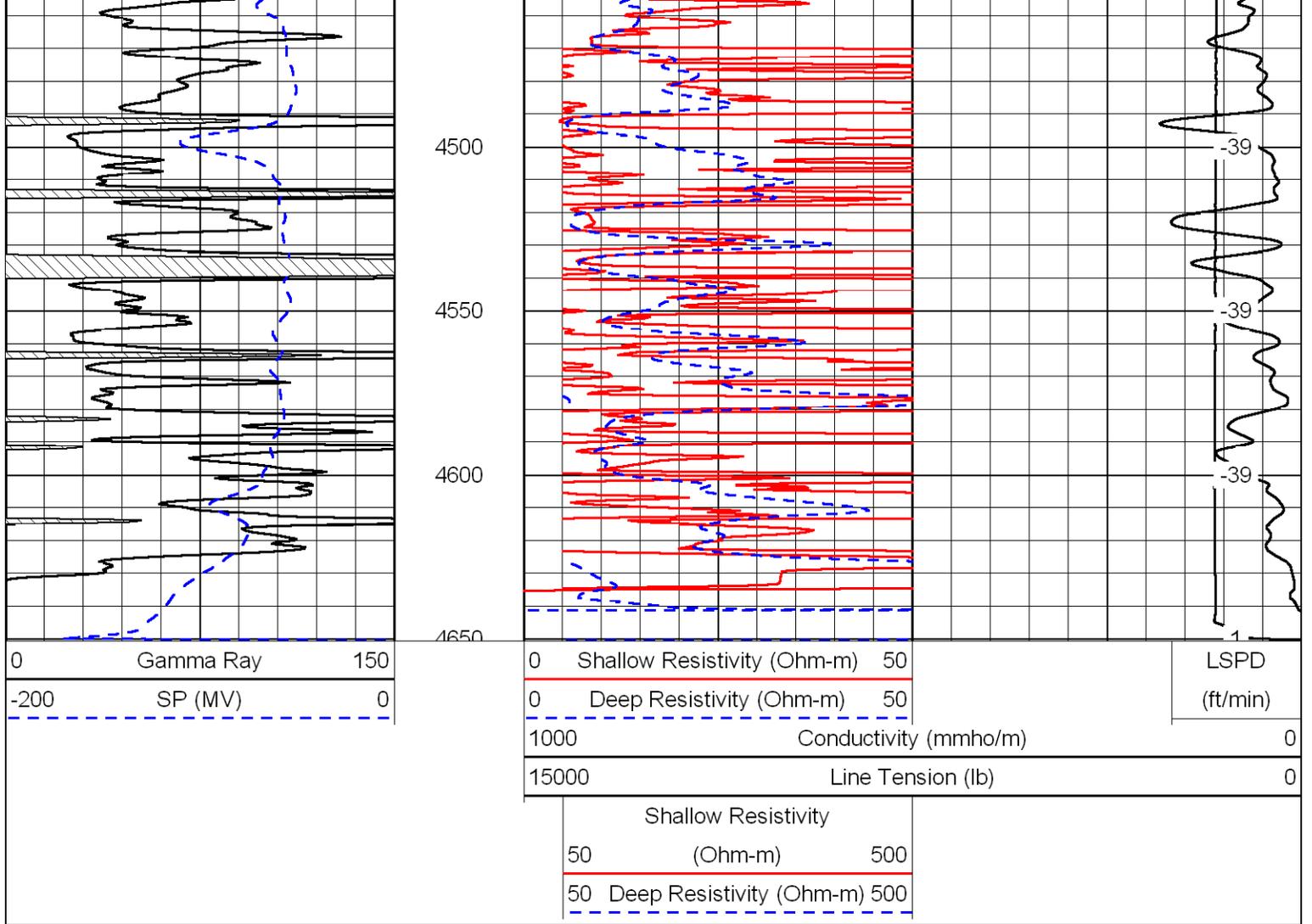




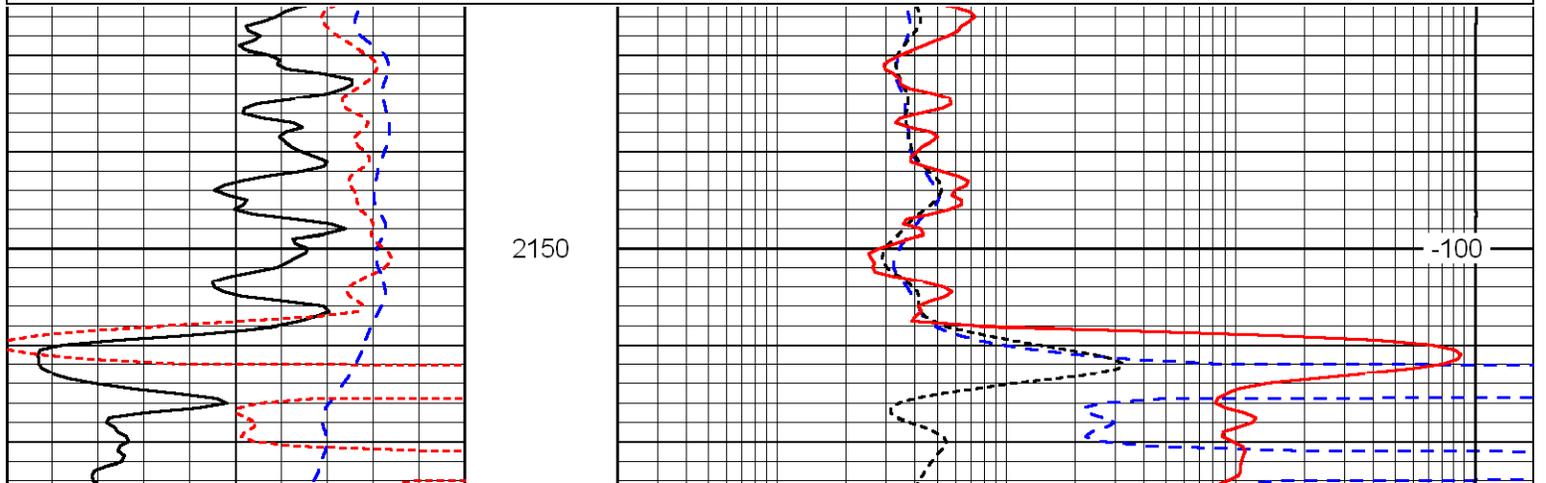
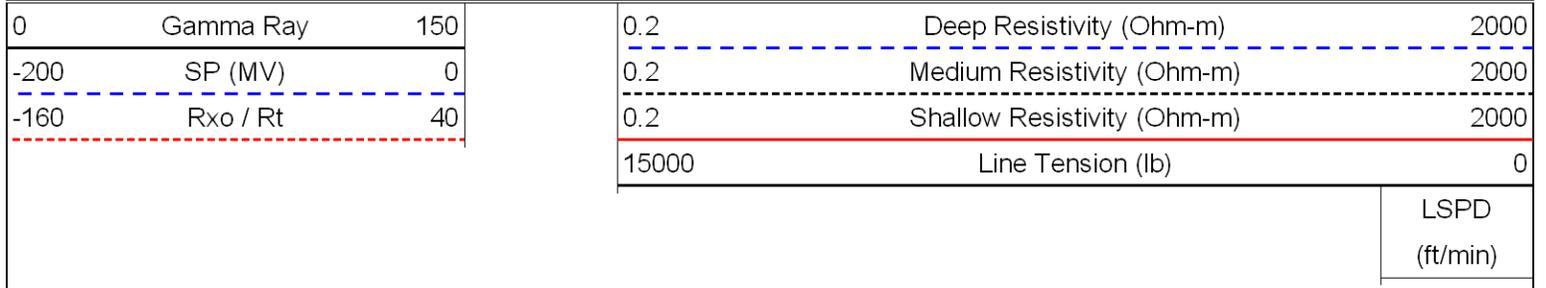


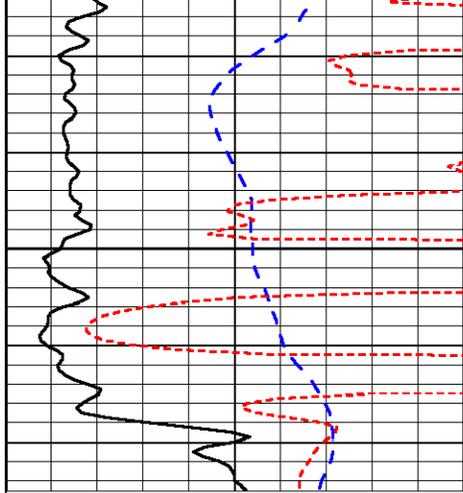






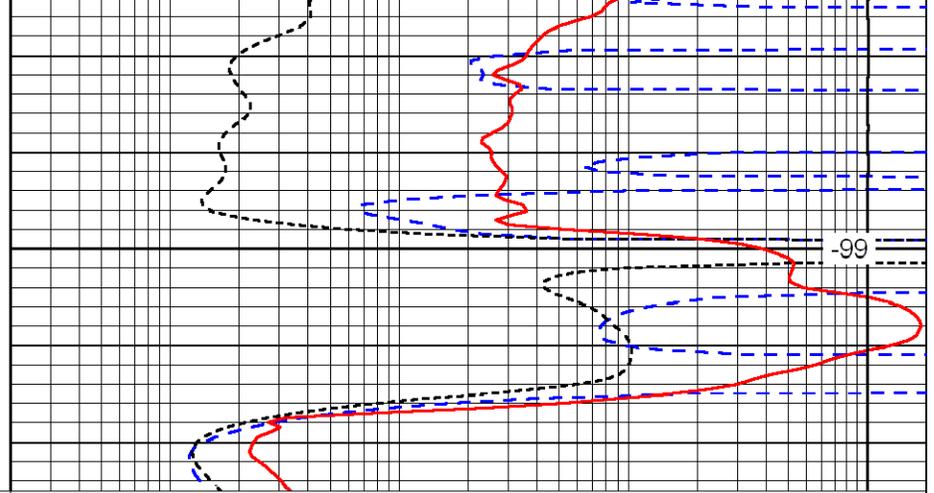
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 Charted by: Depth in Feet scaled 1:240





2200

0	Gamma Ray	150
-200	SP (MV)	0
-160	Rxo / Rt	40



99

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

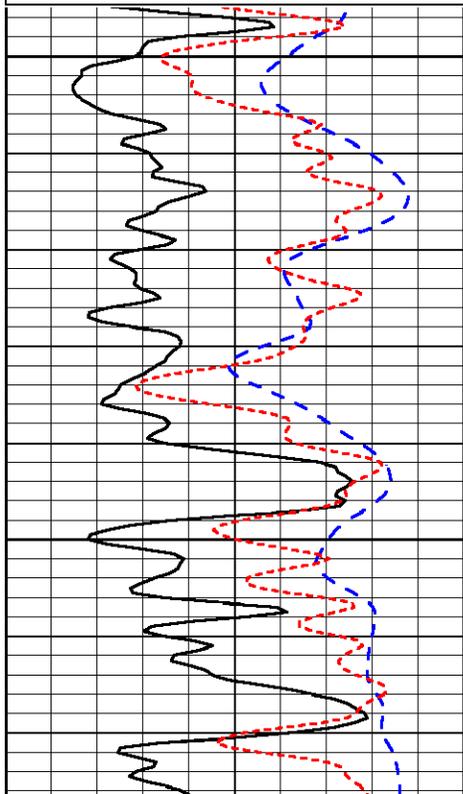
LSPD  
(ft/min)

Database File: c:\warrior\data\larson\_suppes no. 1-19\larsonhd.db  
 Dataset Pathname: DIL/larstk  
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0	Gamma Ray	150
-200	SP (MV)	0
-160	Rxo / Rt	40

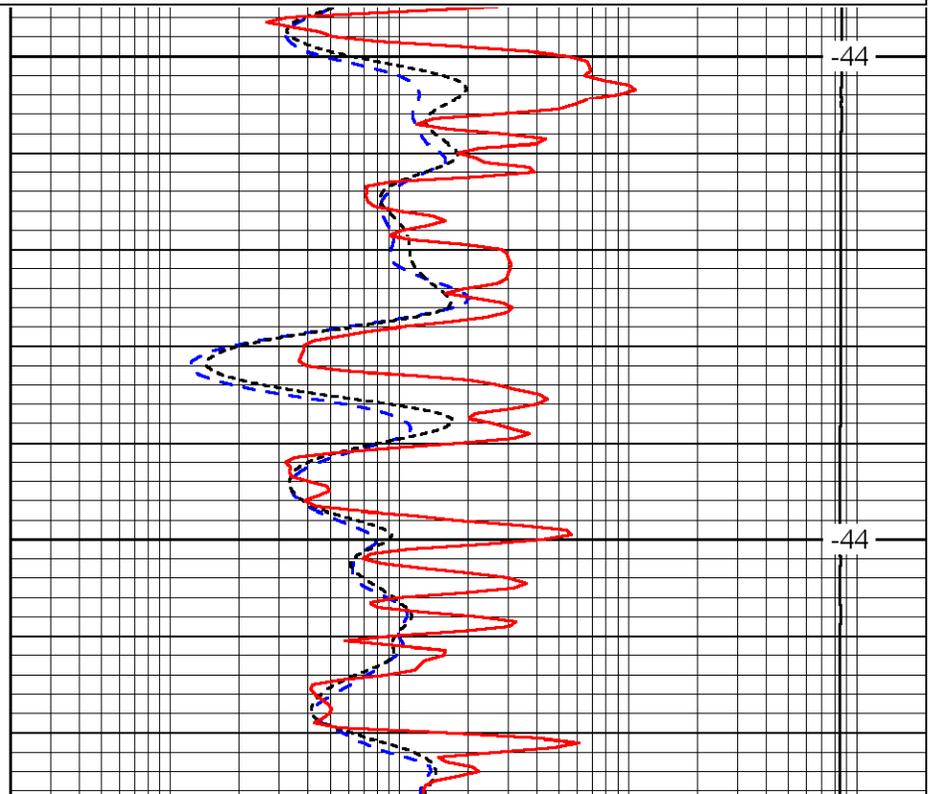
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0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

LSPD  
(ft/min)



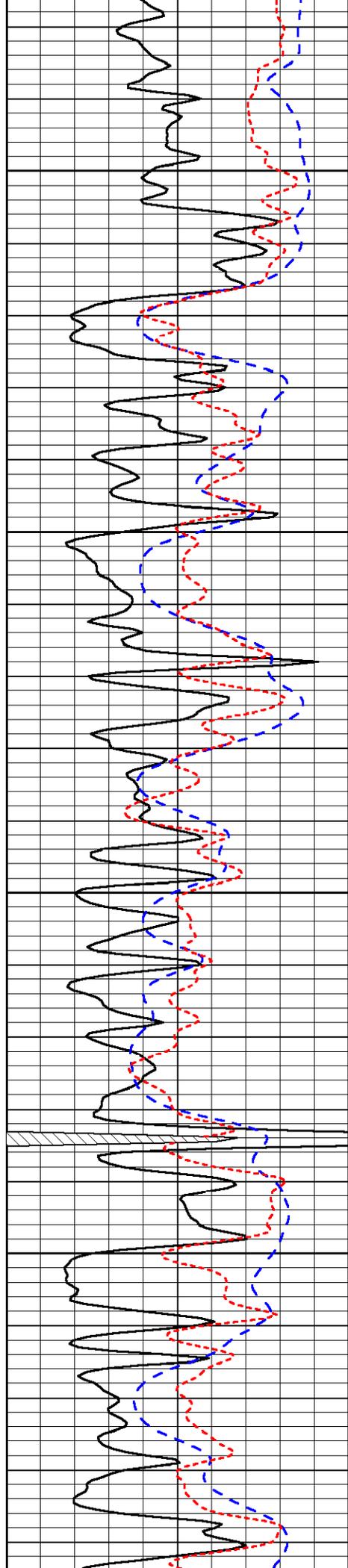
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3650



-44

-44

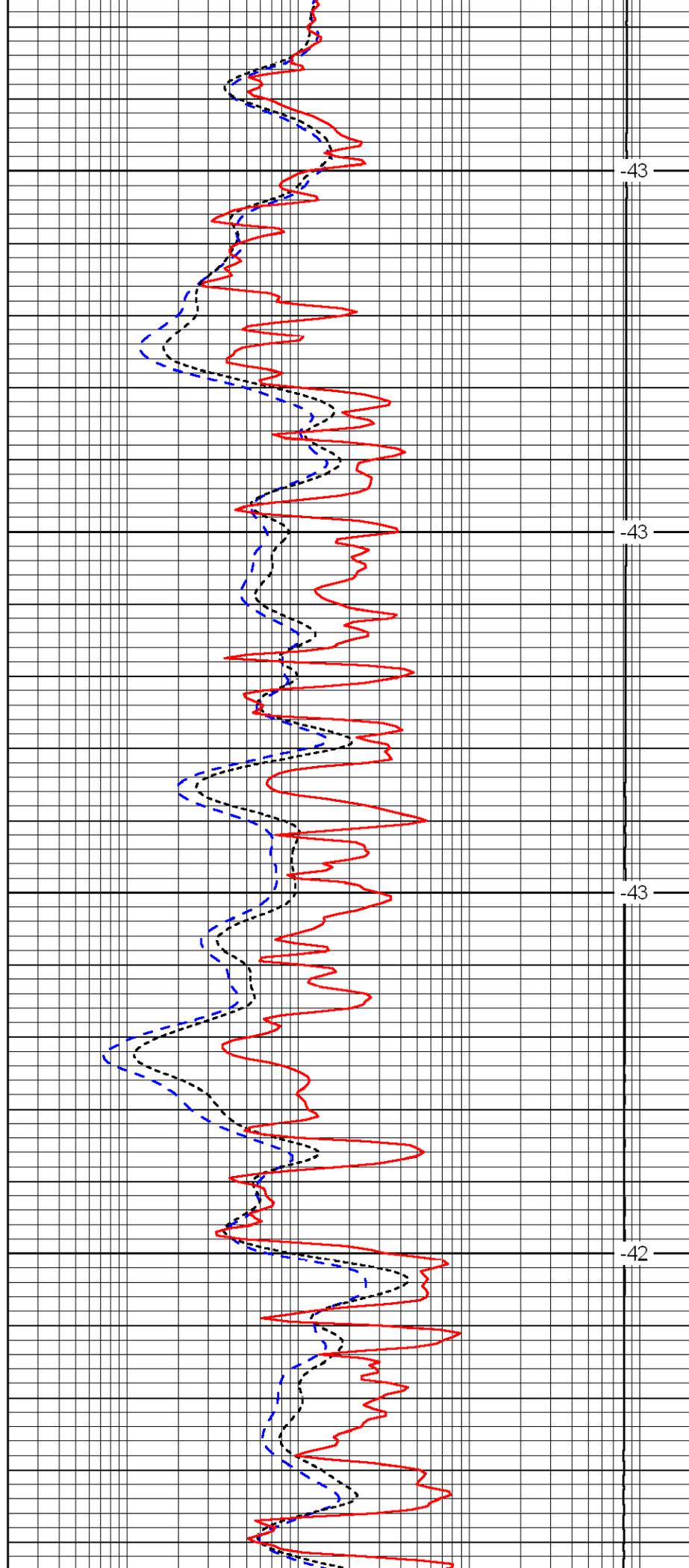


3700

3750

3800

3850

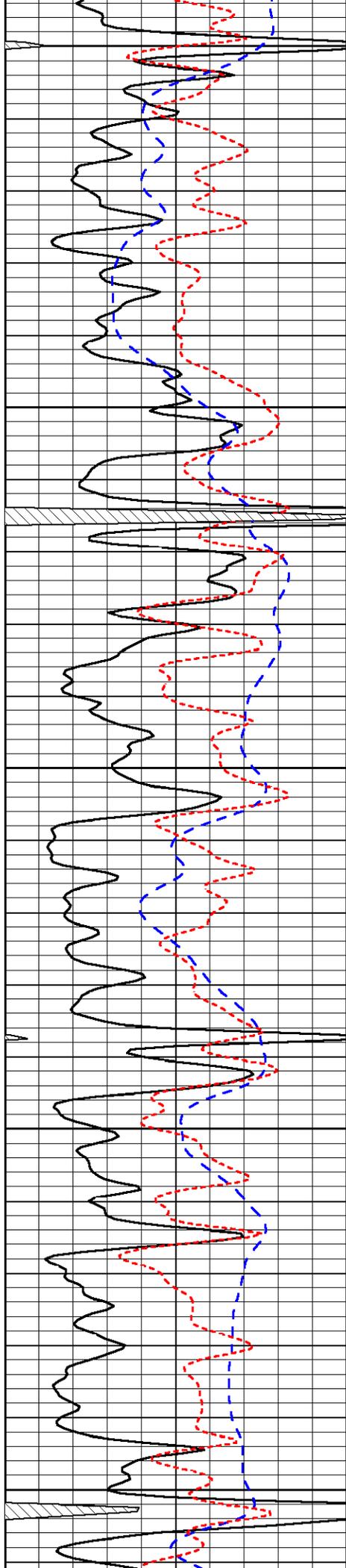


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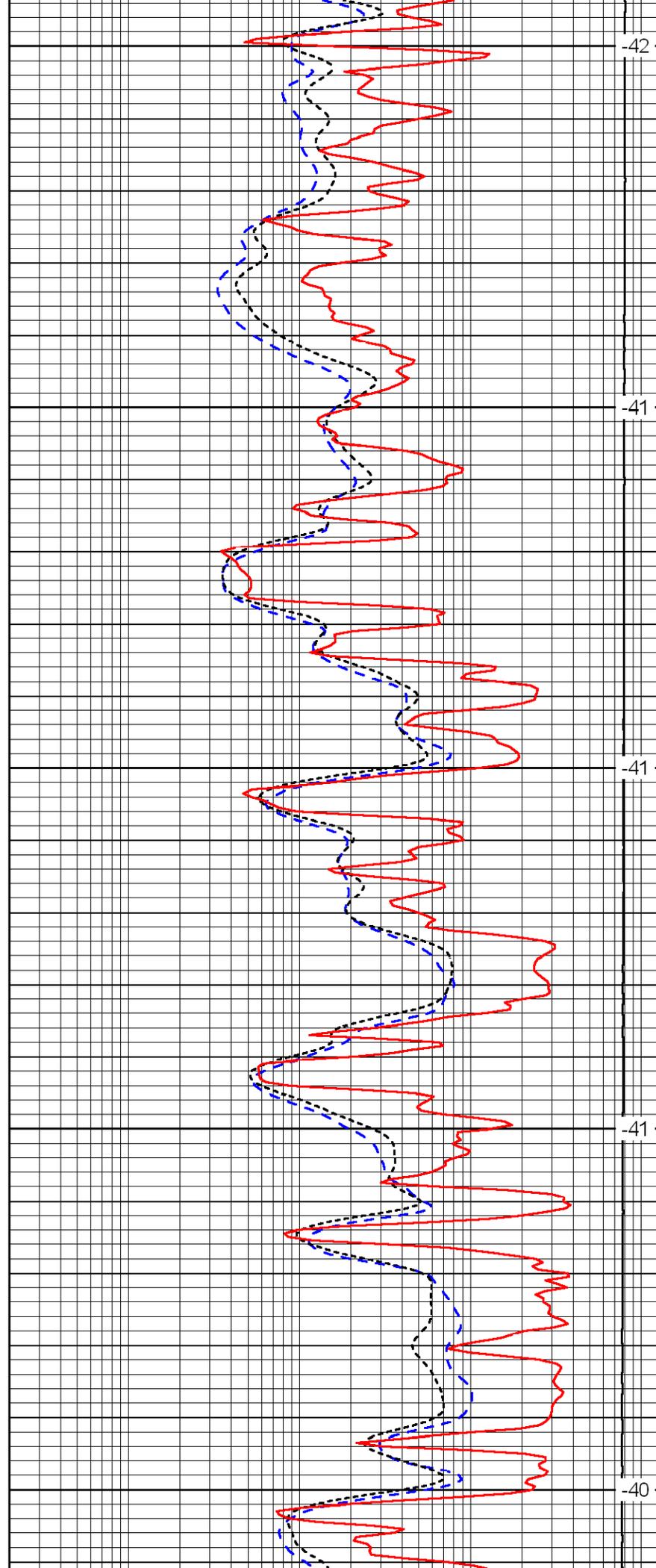
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3950

4000

4050

4100



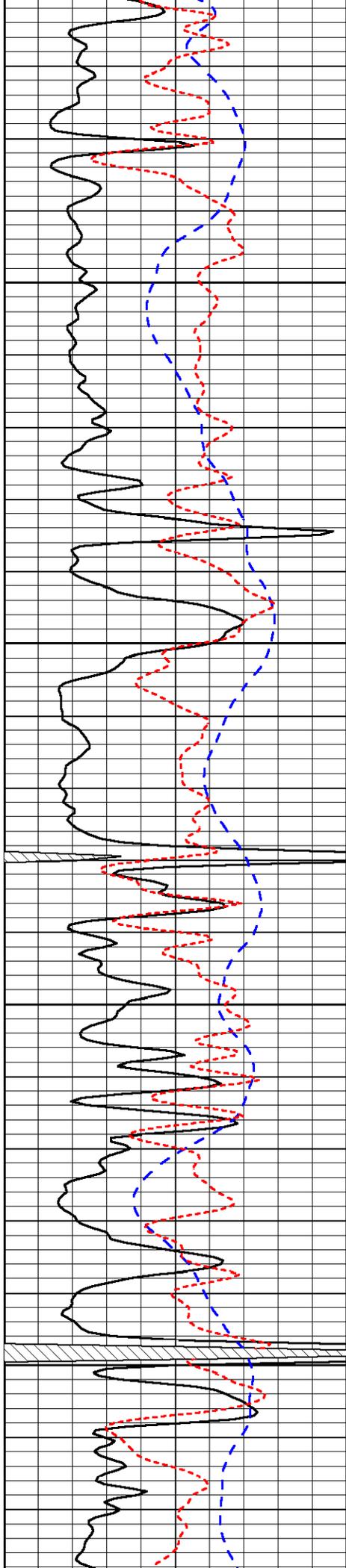
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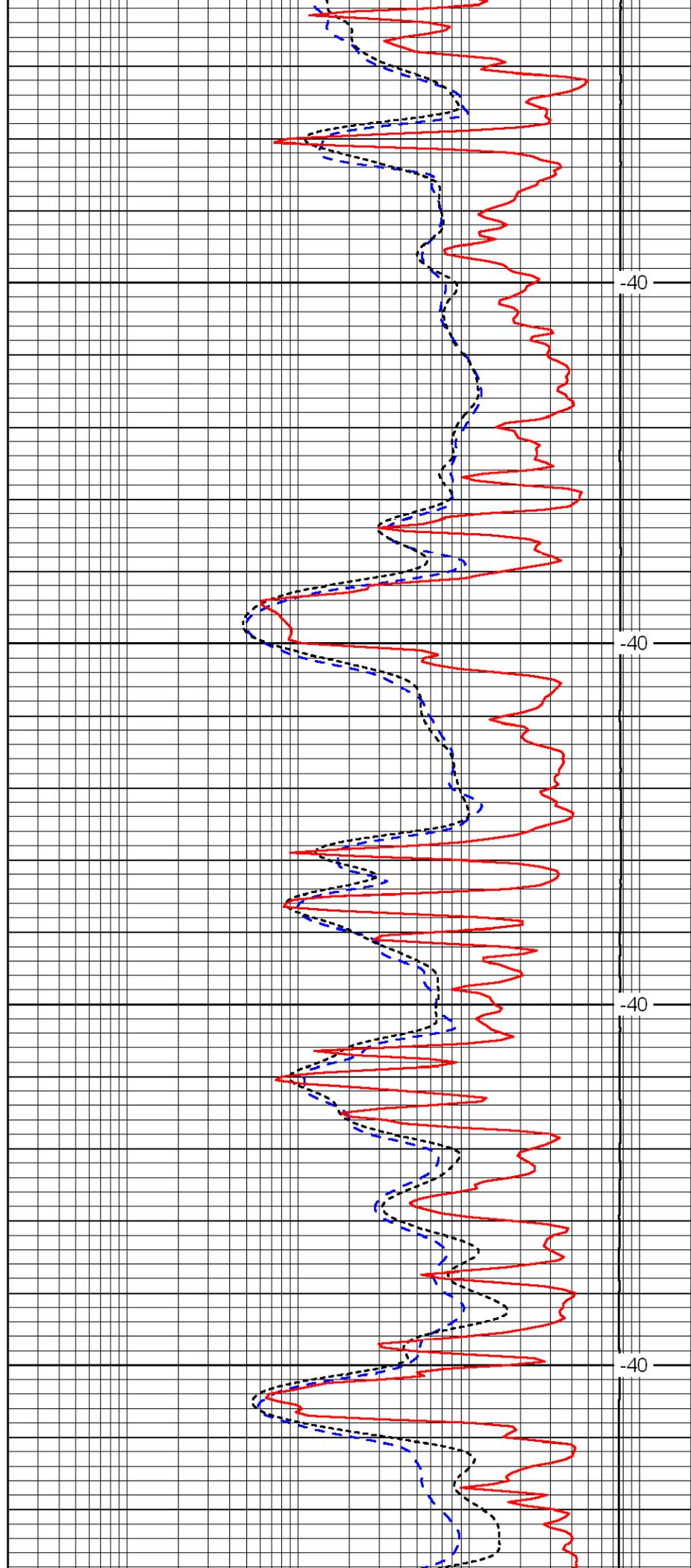


4150

4200

4250

4300

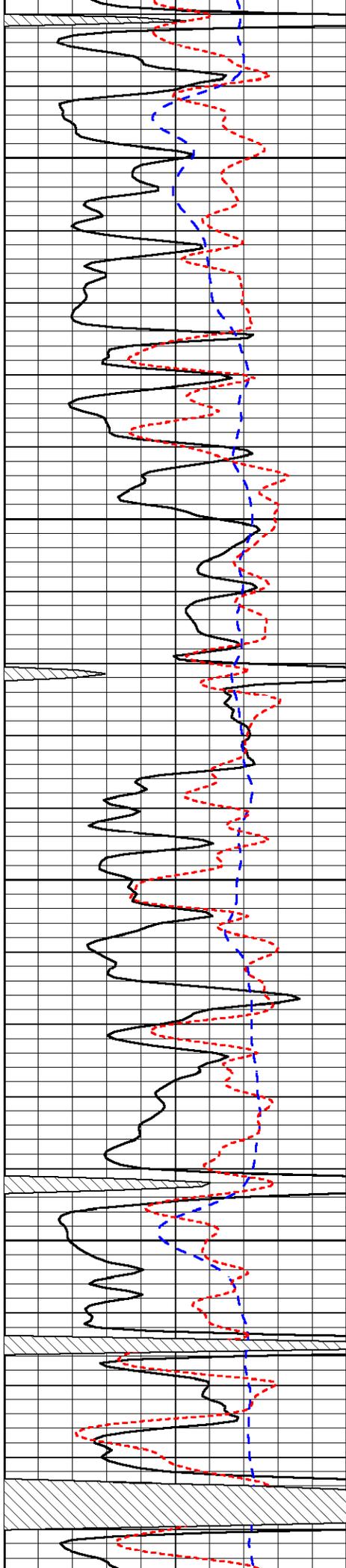


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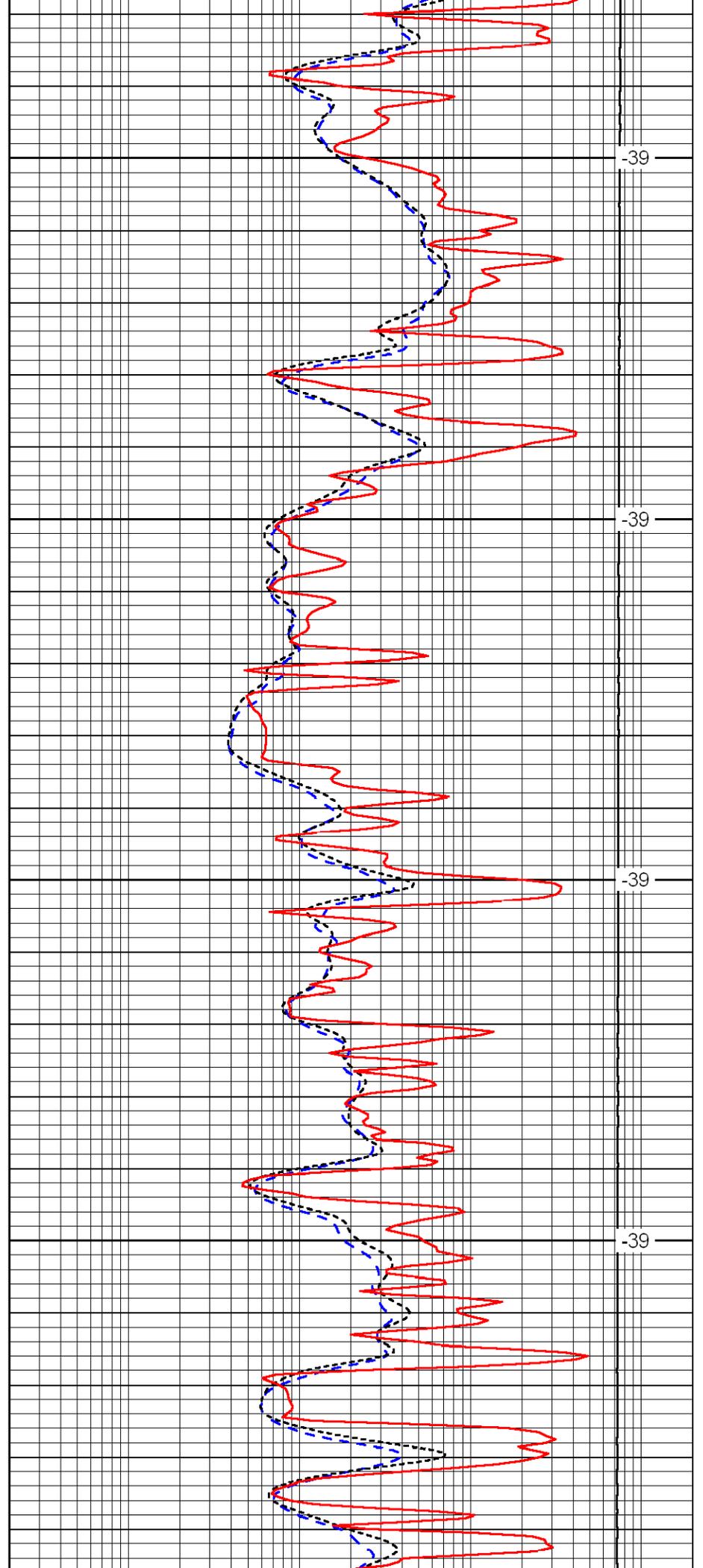


4350

4400

4450

4500

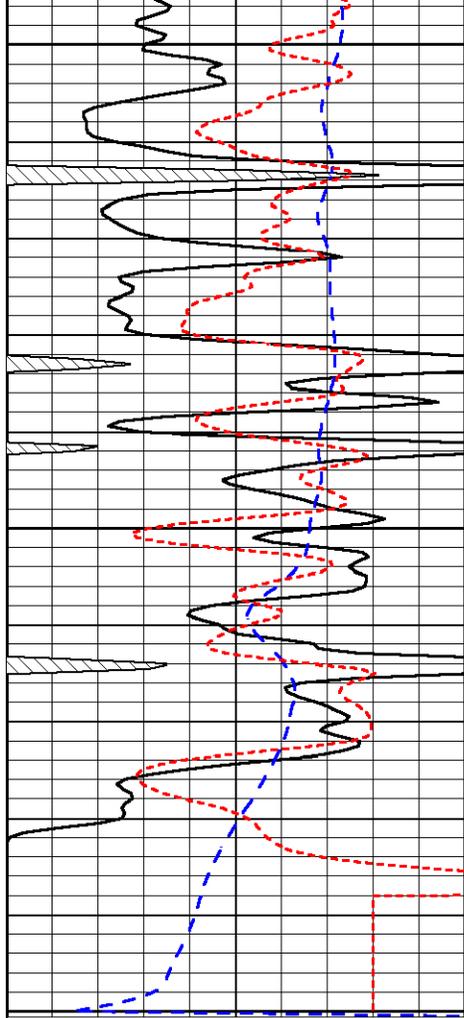


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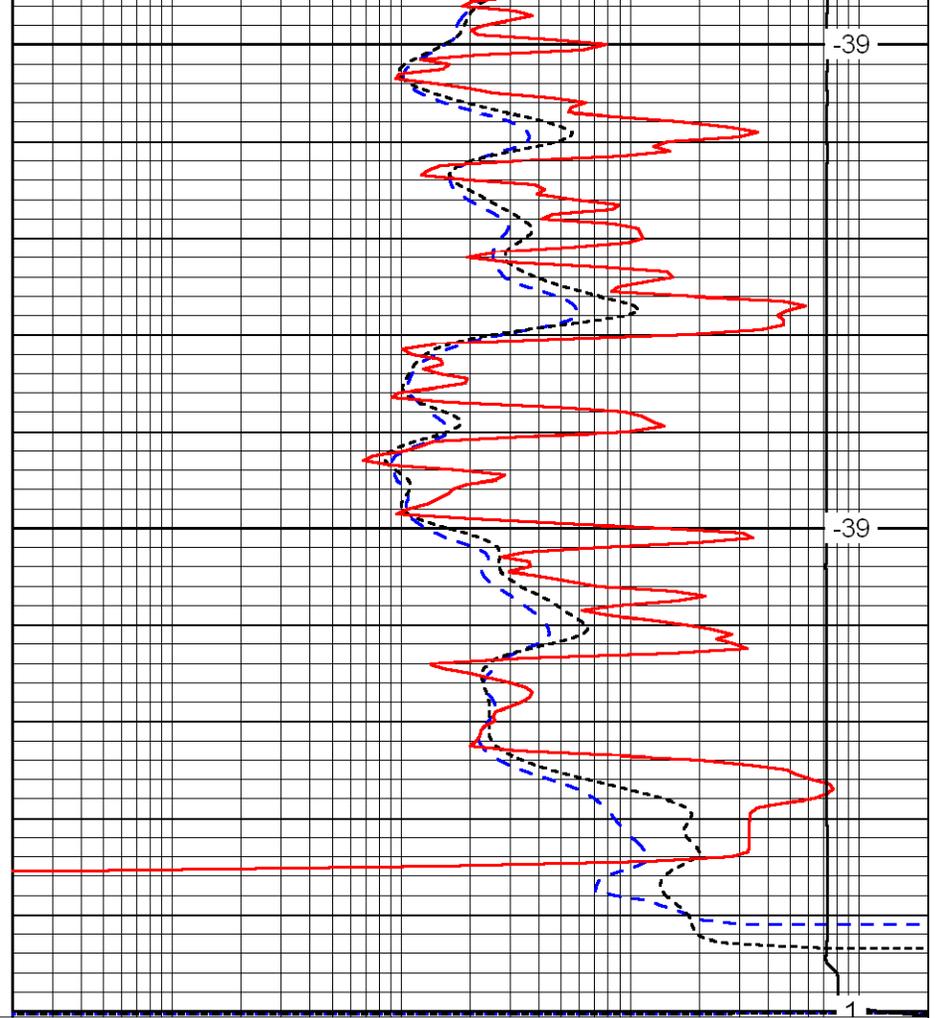


4550

4600

4650

0	Gamma Ray	150
-200	SP (MV)	0
-160	Rxo / Rt	40



-39

-39

1

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

LSPD  
(ft/min)