



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No. 15-185-23,692-00-00		Company Northern Lights Oil Co., LC.	
Well Munz No. 2		Field Macksville	
County Stafford		State Kansas	
Location 2310' FSL & 1980' FEL		Other Services CNL/CDL	
Sec: 2 Twp: 24 S Rge: 15 W		Elevation K.B. 2006 D.F. 2001 G.L. 2001	
Permanent Datum Ground Level		Elevation 2001	
Log Measured From Kelly Bushing		5 Ft. Above Perm. Datum	
Drilling Measured From Kelly Bushing			
Date	7/31/2011		
Run Number	One		
Depth Driller	4180		
Depth Logger	4179		
Bottom Logged Interval	4178		
Top Log Interval	300		
Casing Driller	8.625 @ 308		
Casing Logger	308		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4.500		
Density / Viscosity	9.4 48		
pH / Fluid Loss	10.5 11.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.55 @ 78		
Rmf @ Meas. Temp	.41 @ 78		
Rmc @ Meas. Temp	.74 @ 78		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.36 @ 120		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	120		
Equipment Number	91		
Location	Hays		
Recorded By	K. Bange		
Witnessed By	Bill Shepherd		

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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

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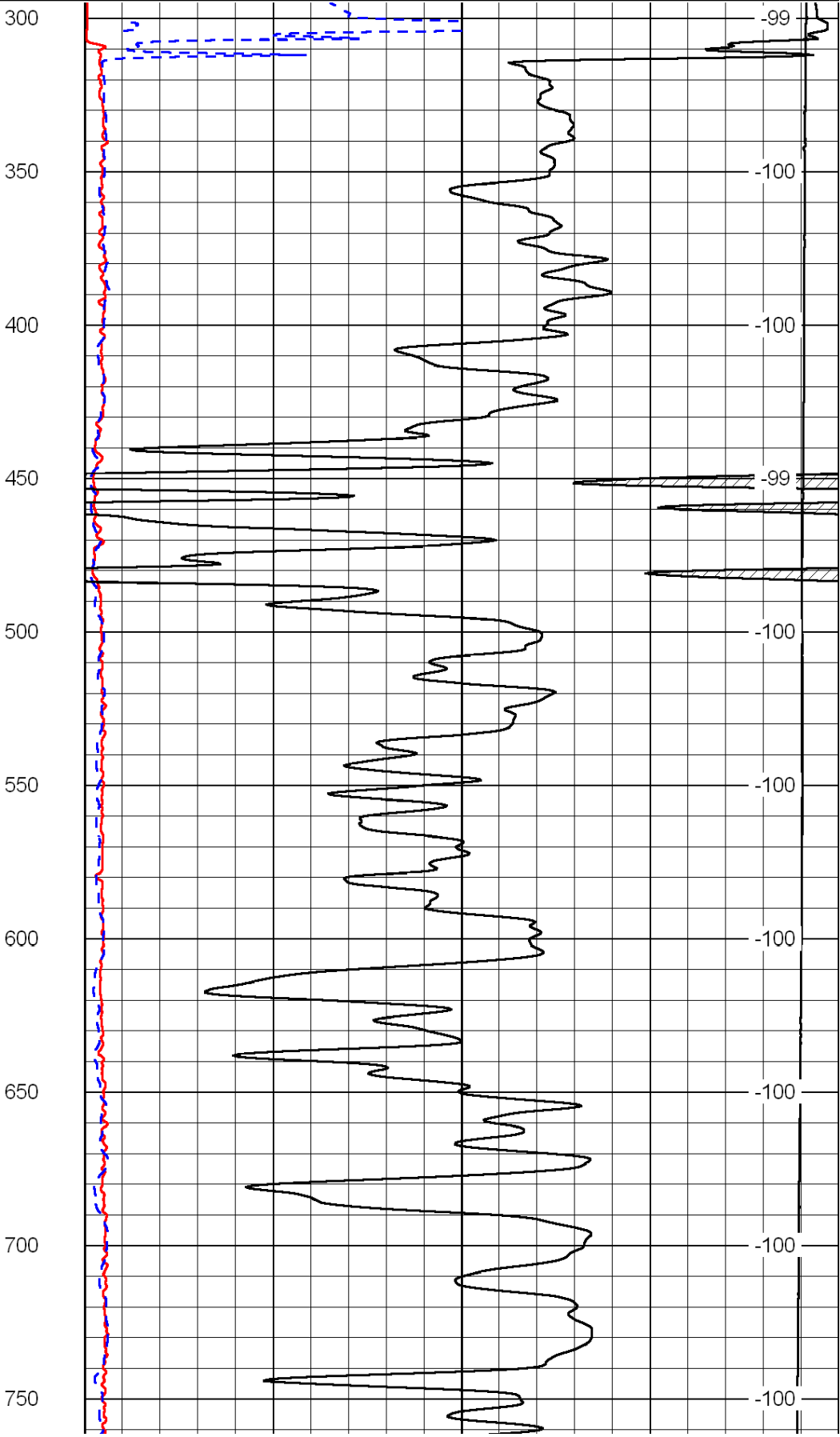
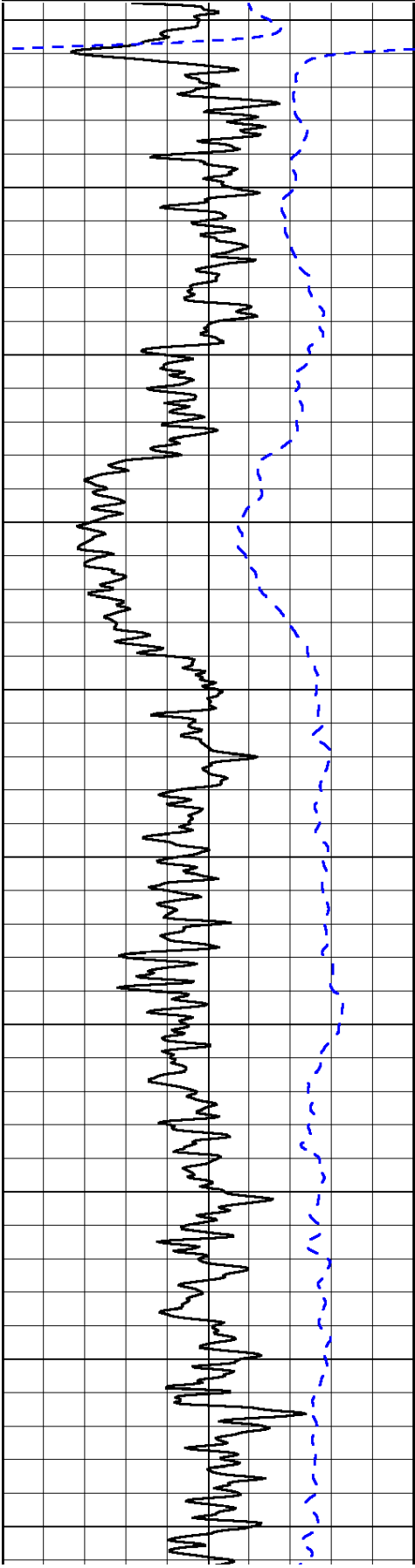
St John, 8 W on NW 30 to 100 rd, appx. 1 S to tree line, W into

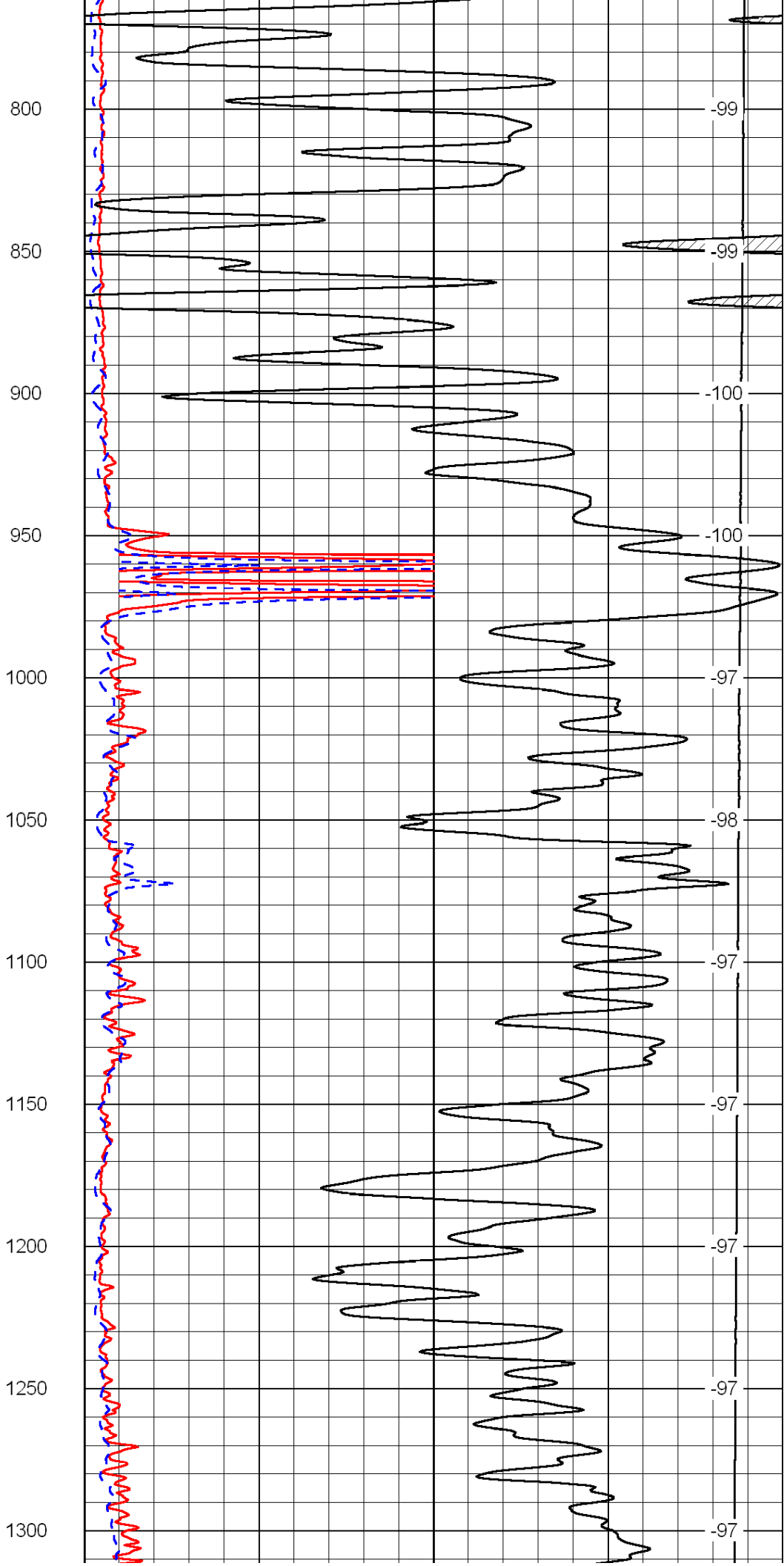
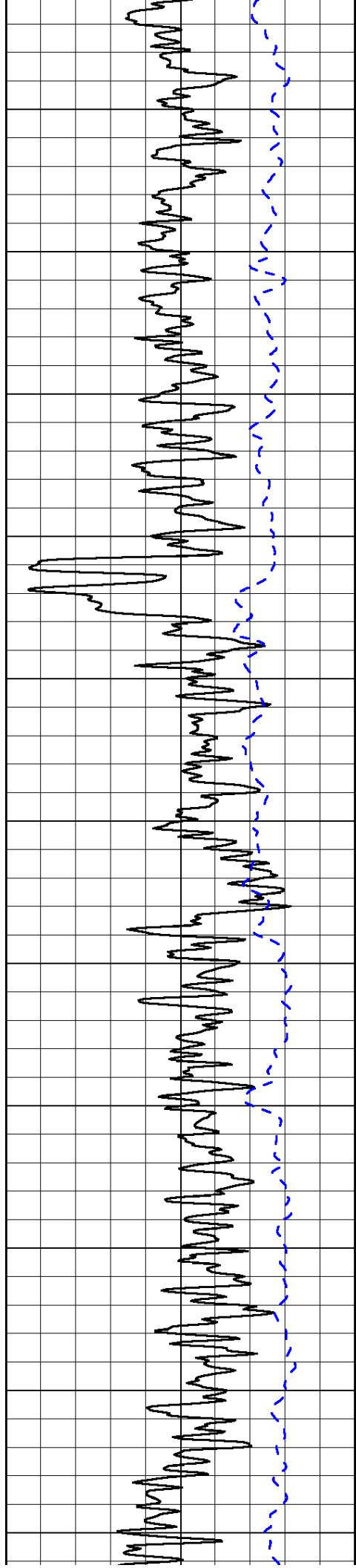
Database File: c:\warrior\data\northern lights_munz no. 2\northrnlt073111hd.db
Dataset Pathname: dil/@00000e60
Presentation Format: dil2in
Dataset Creation: Sun Jul 31 02:51:22 2011
Charted by: Depth in Feet scaled 1:600

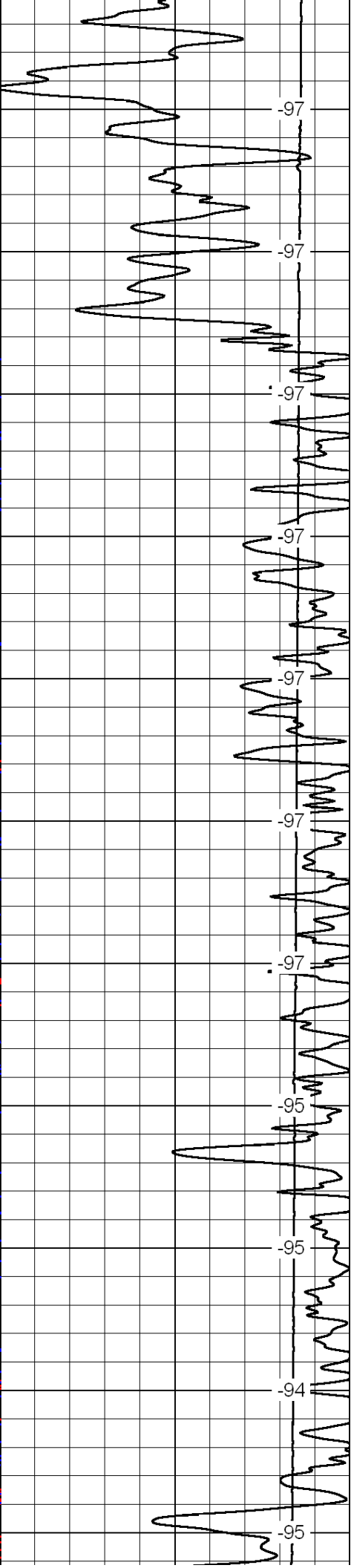
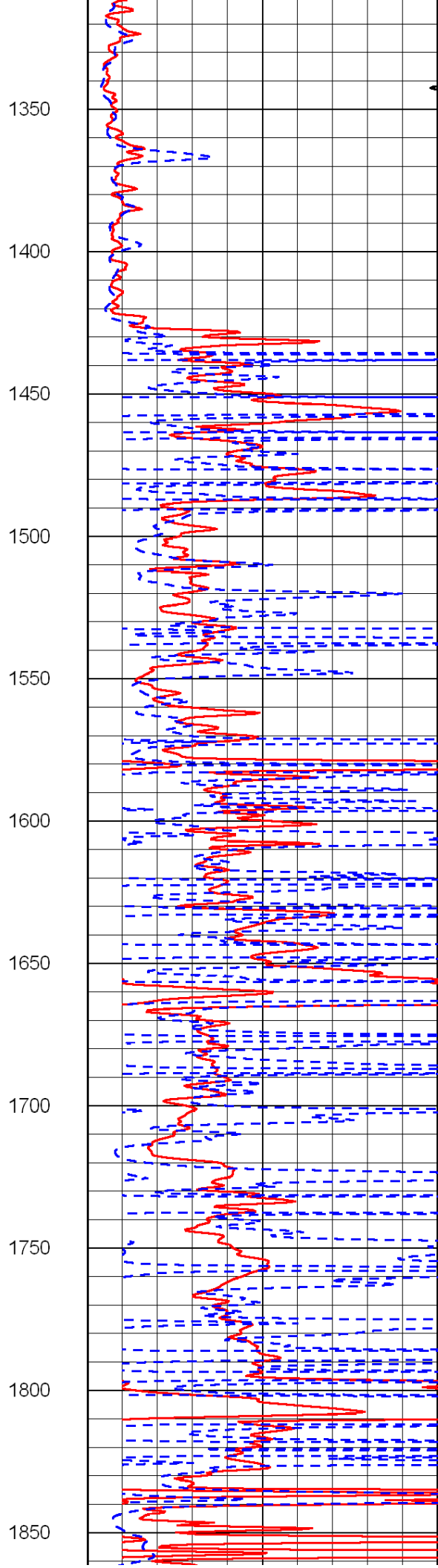
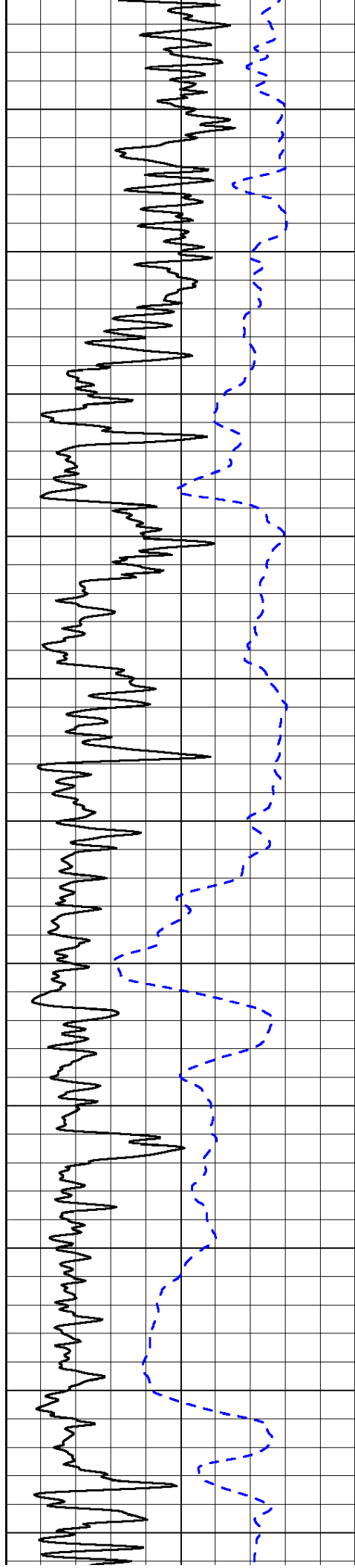
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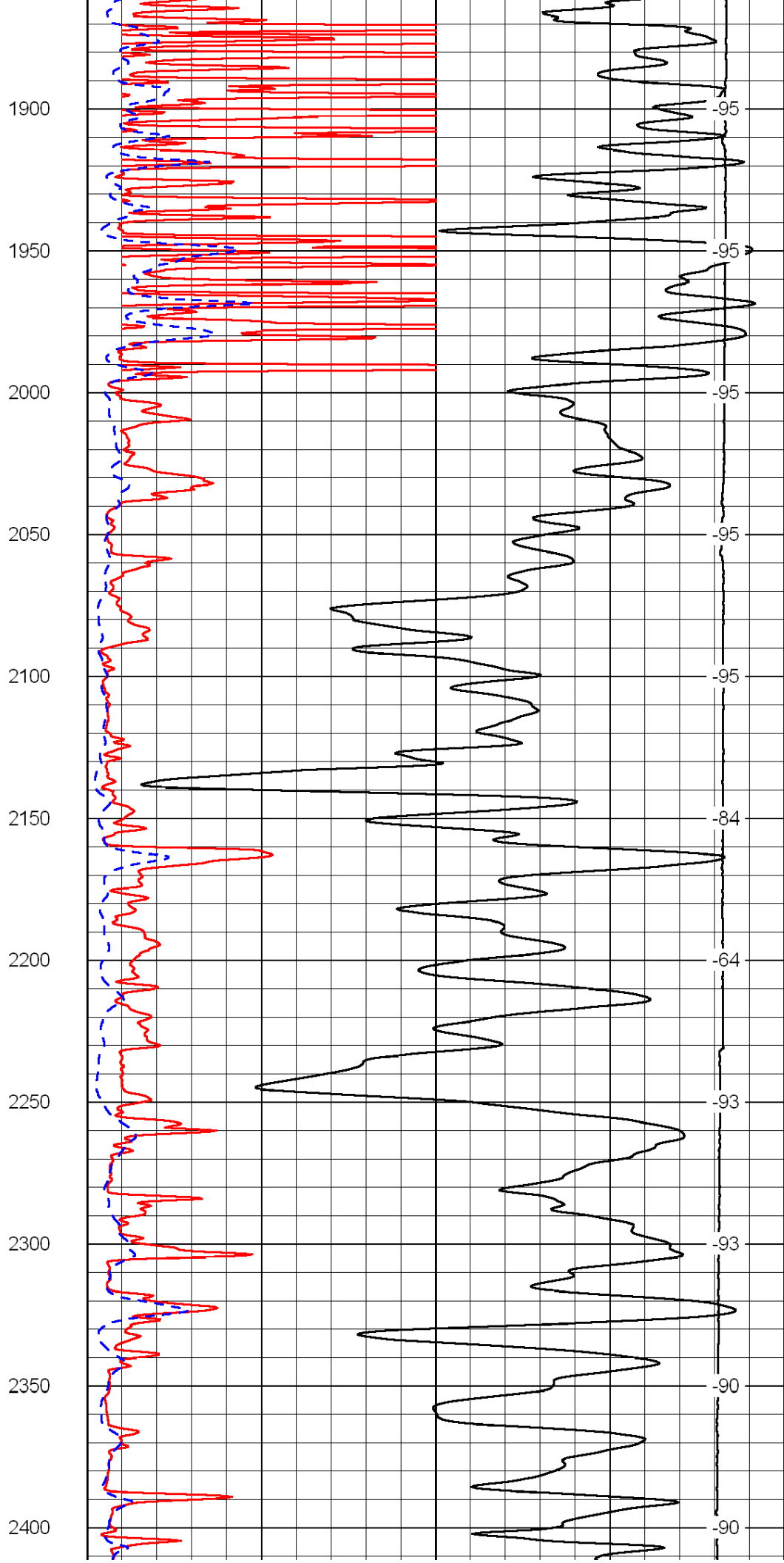
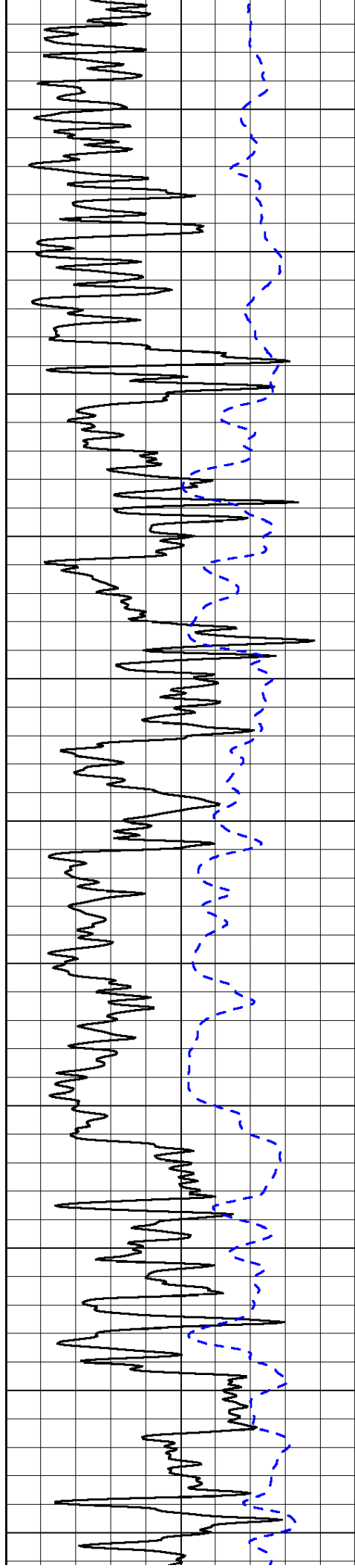
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-200	SP (mV)	0

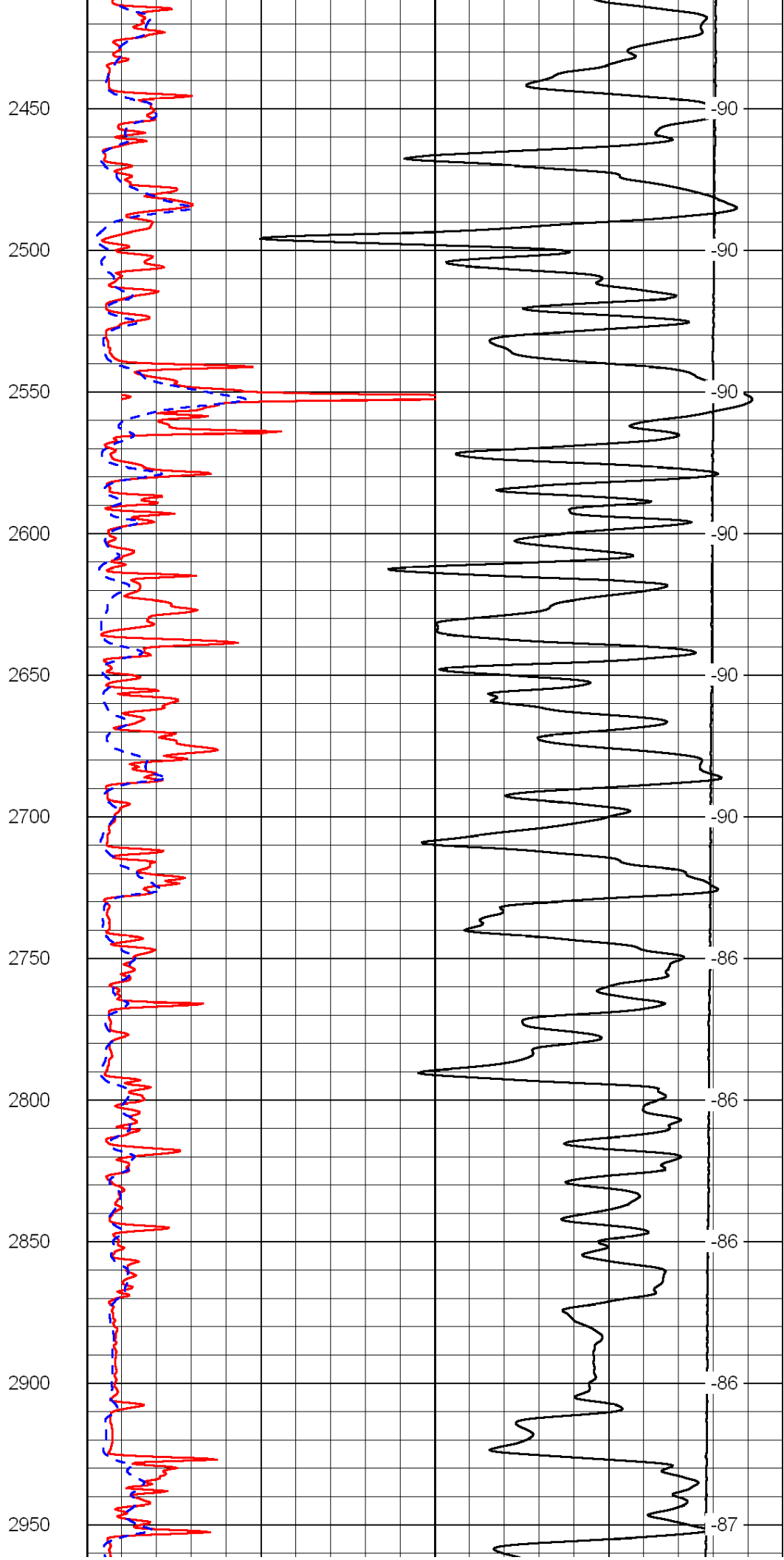
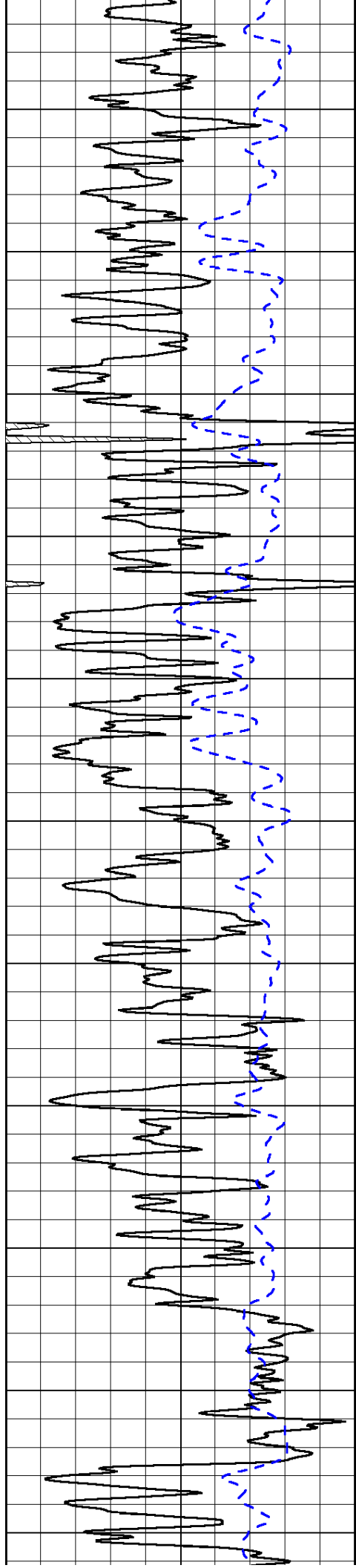
0 Shallow Resistivity 50			LSPD
0 Deep Resistivity 50			
1000 Conductivity			0
15000 Line Tension			0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

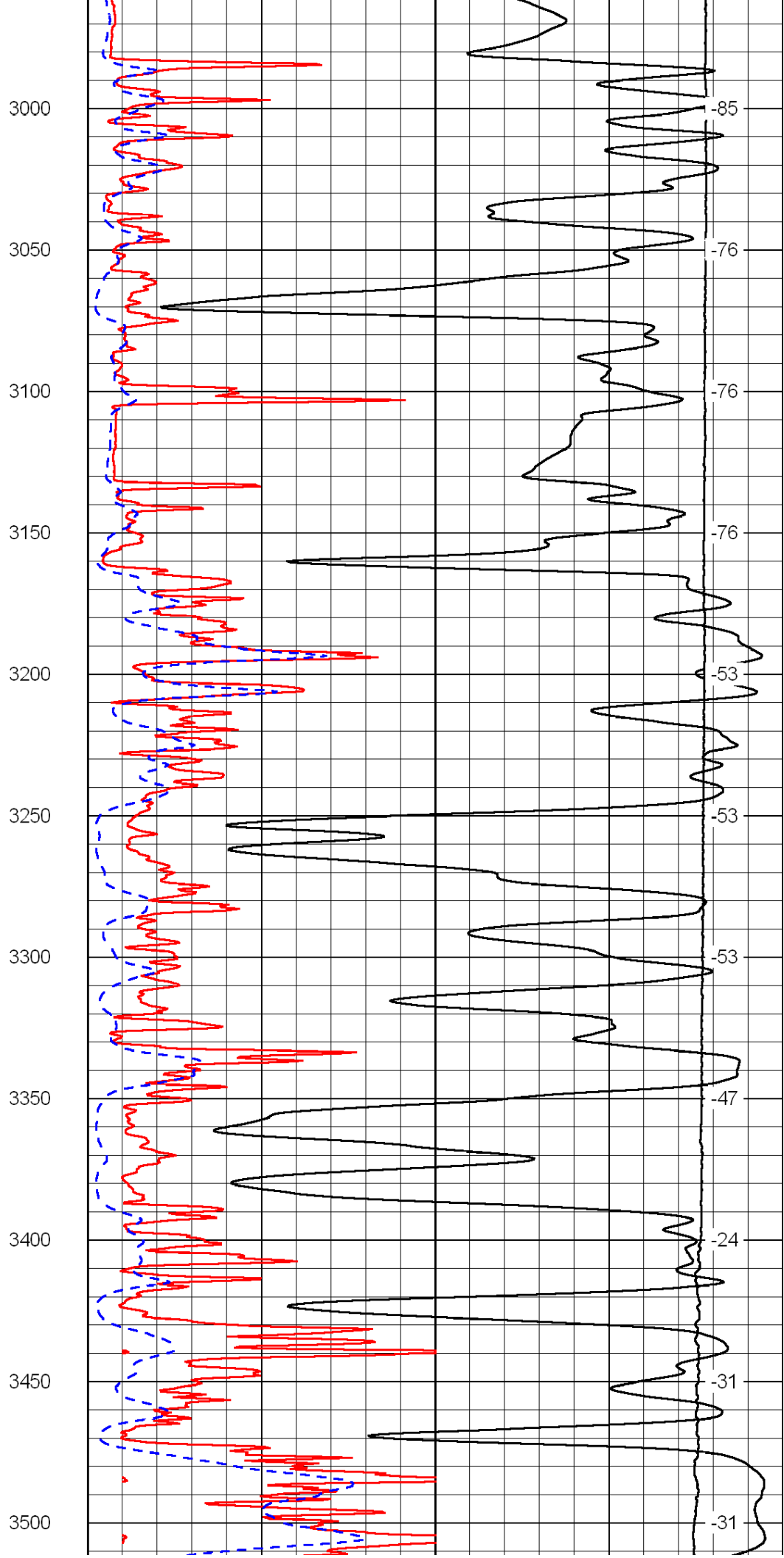
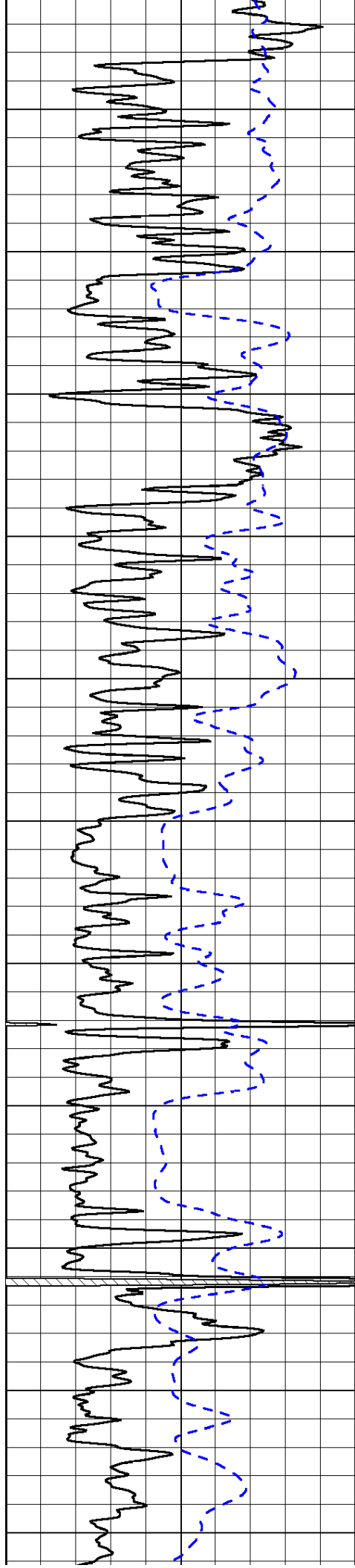


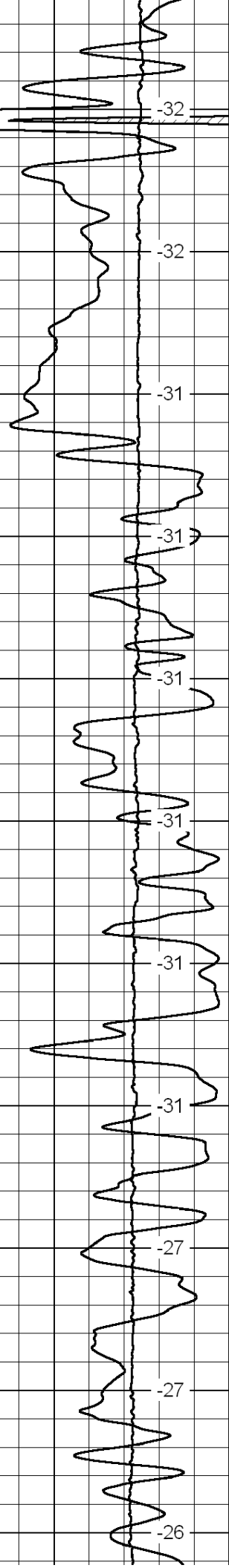
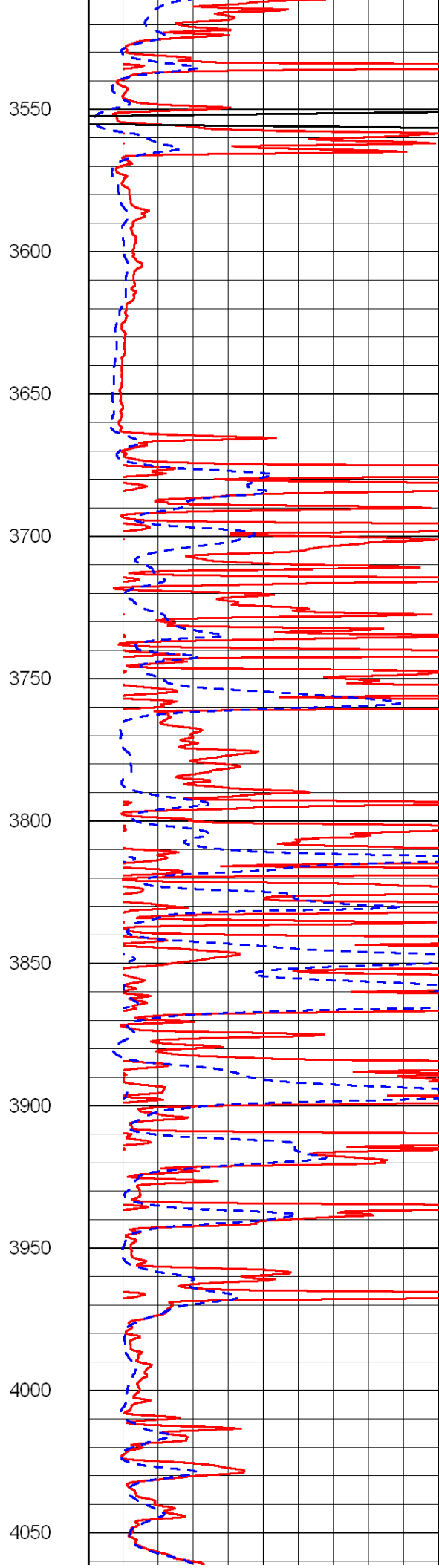
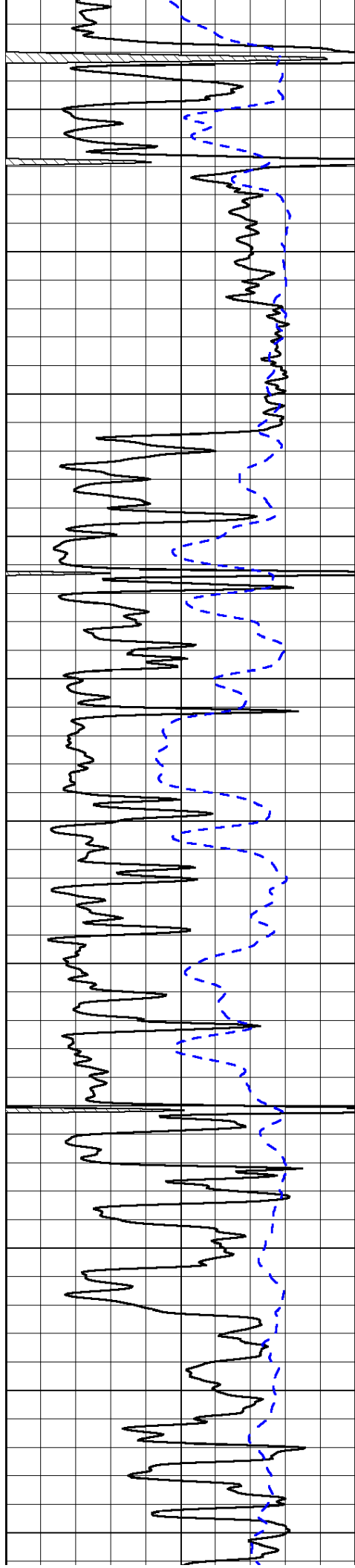


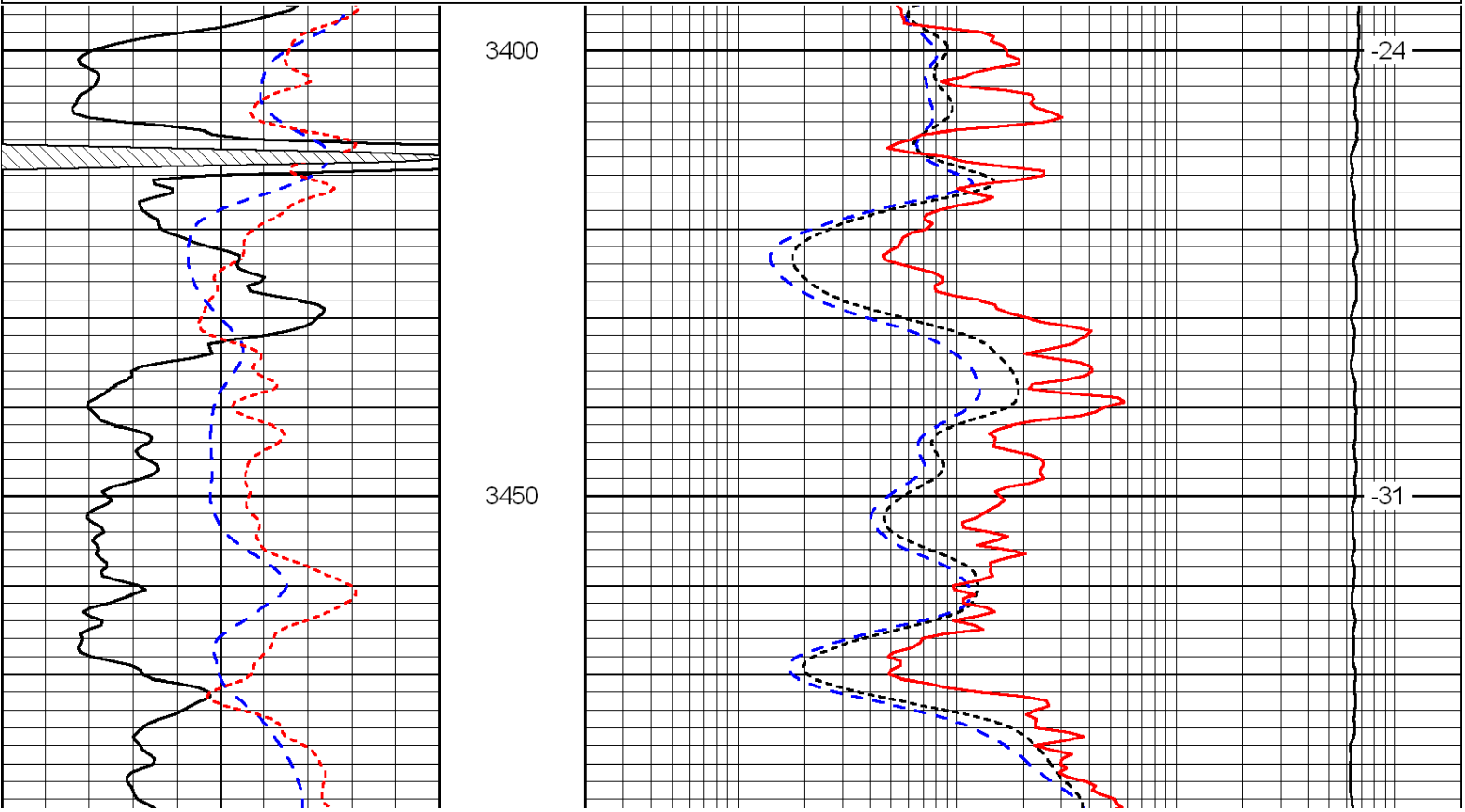
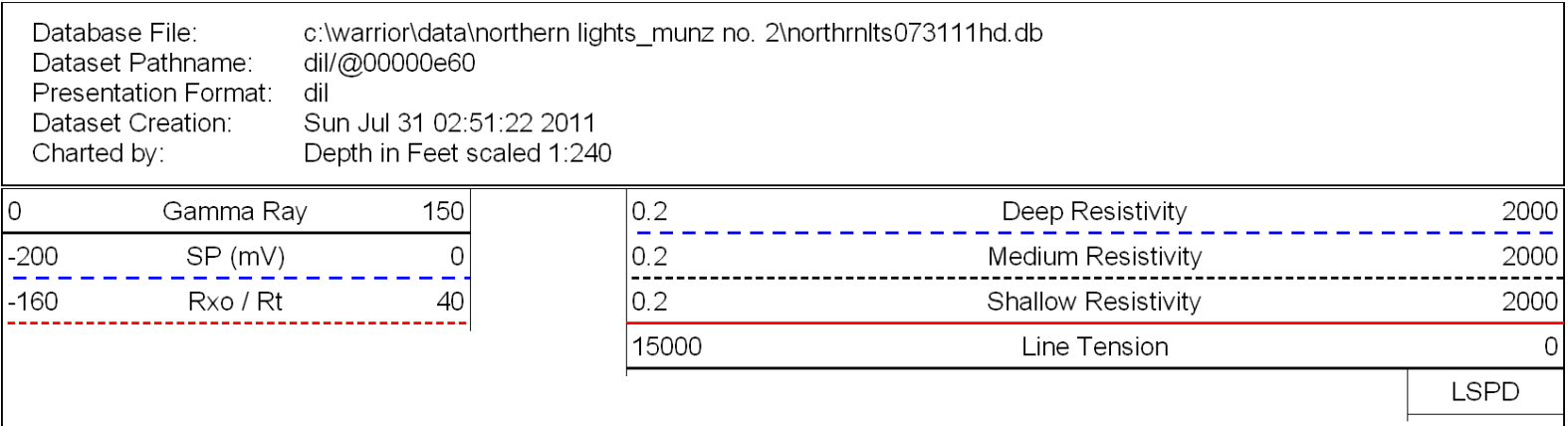
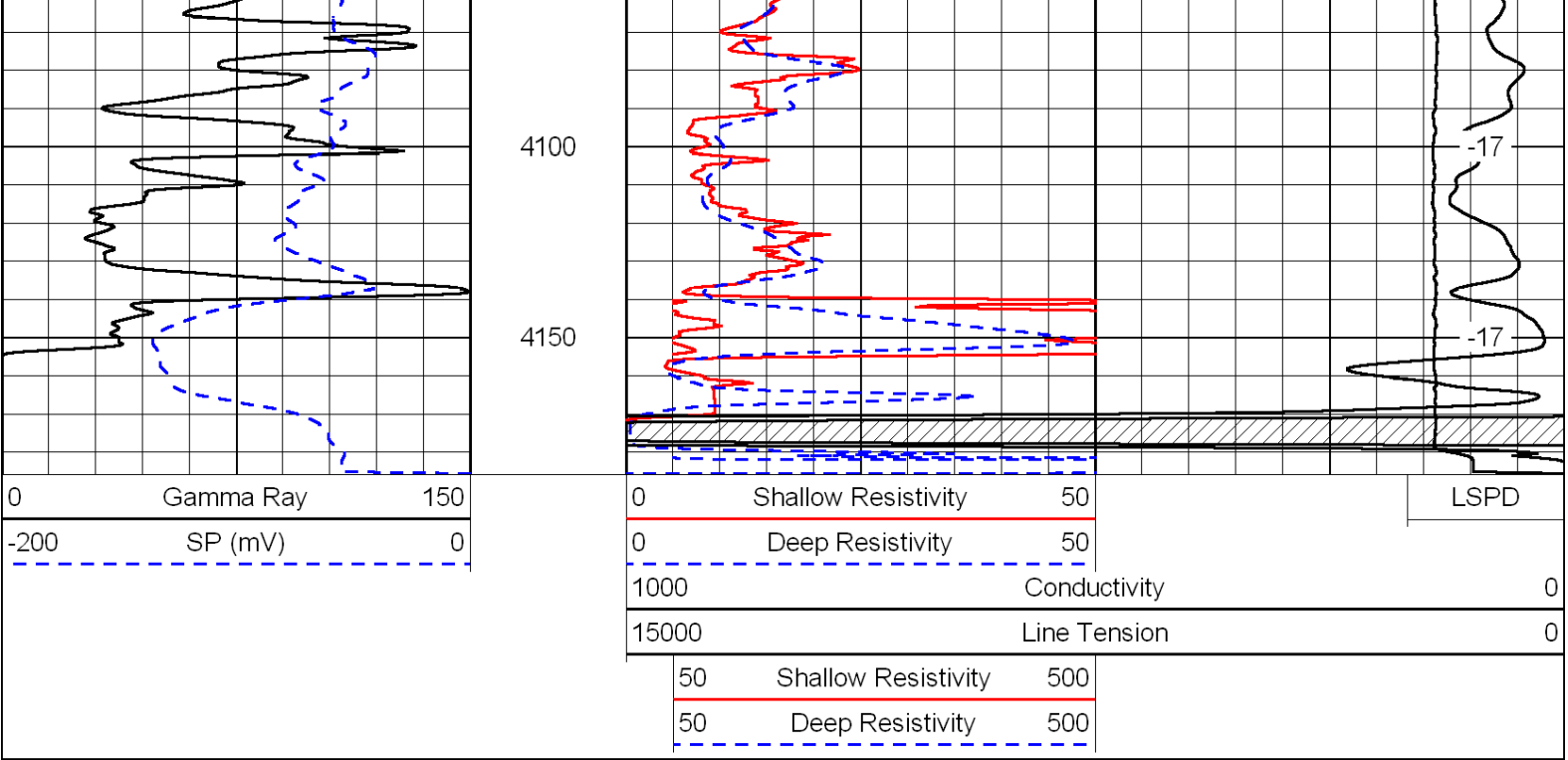


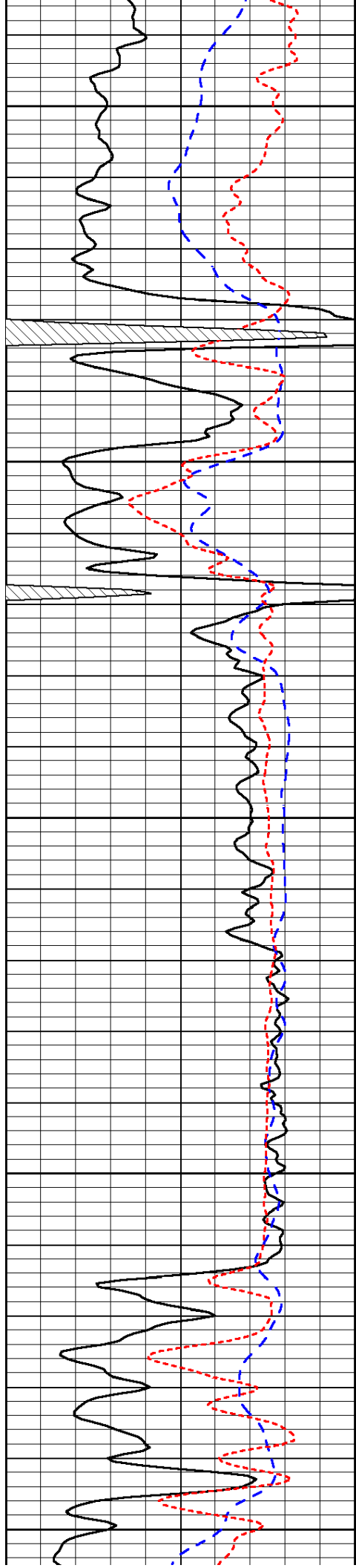












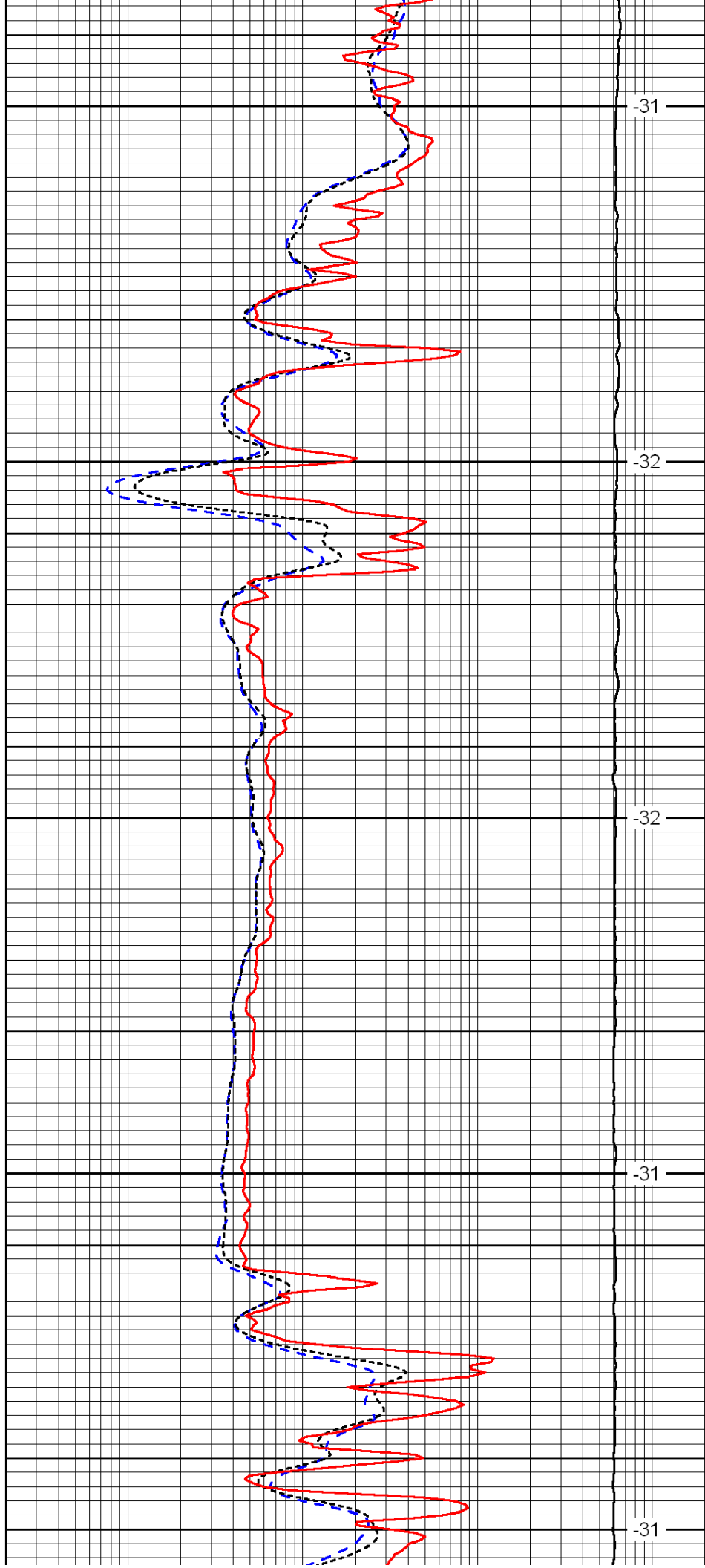
3500

3550

3600

3650

3700



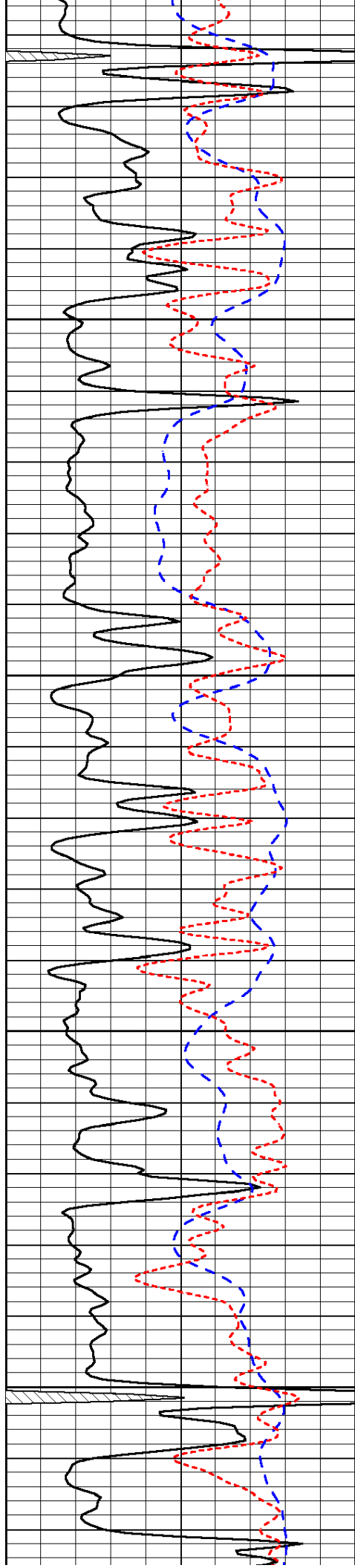
-31

-32

-32

-31

-31

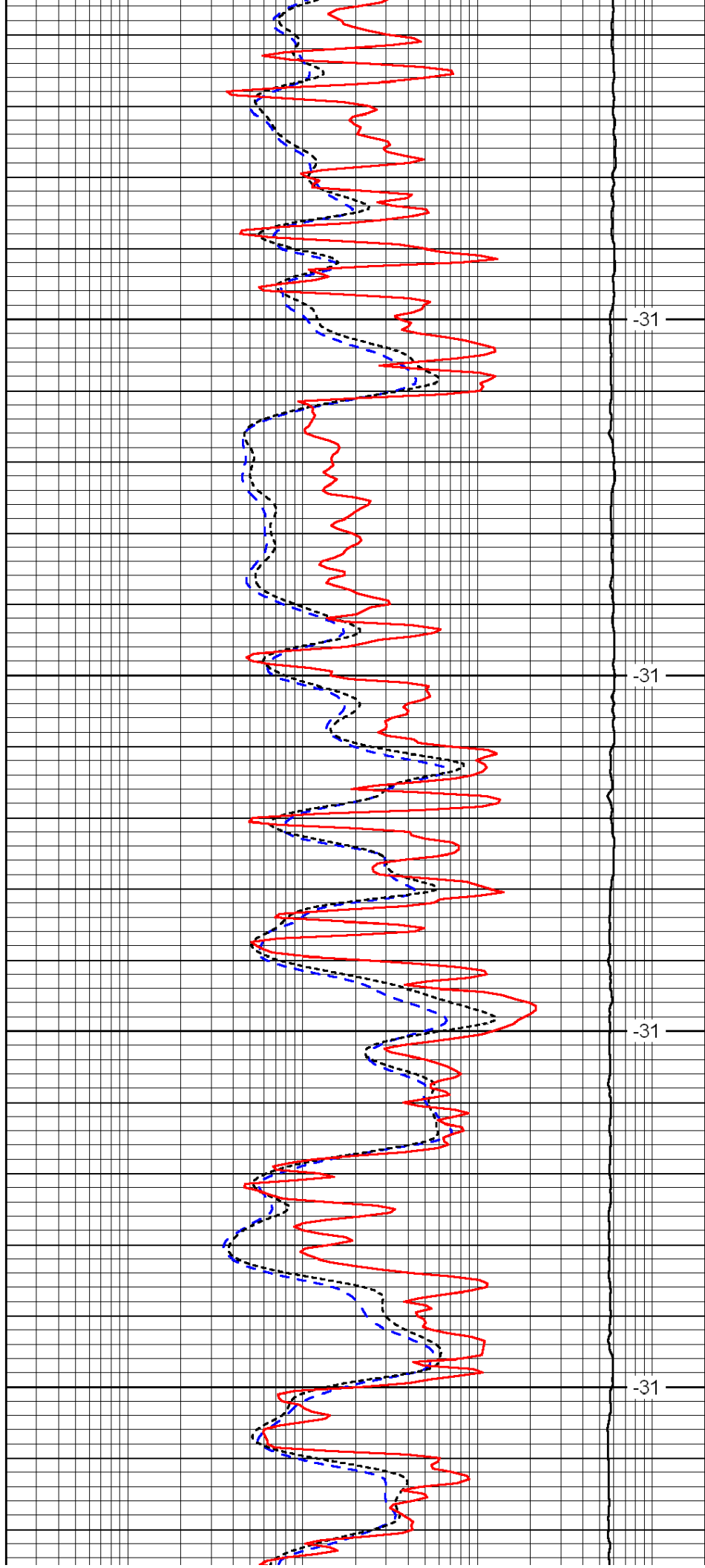


3750

3800

3850

3900

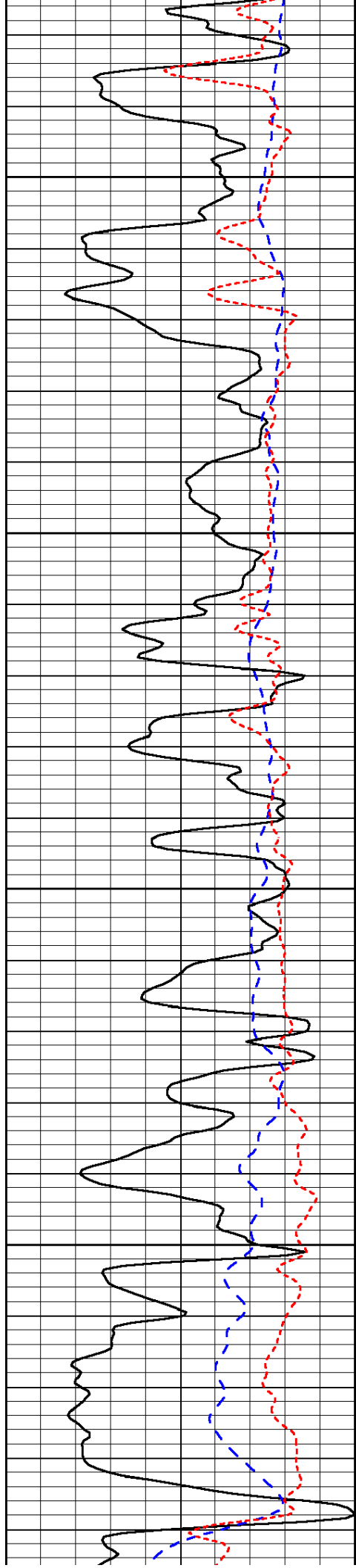


-31

-31

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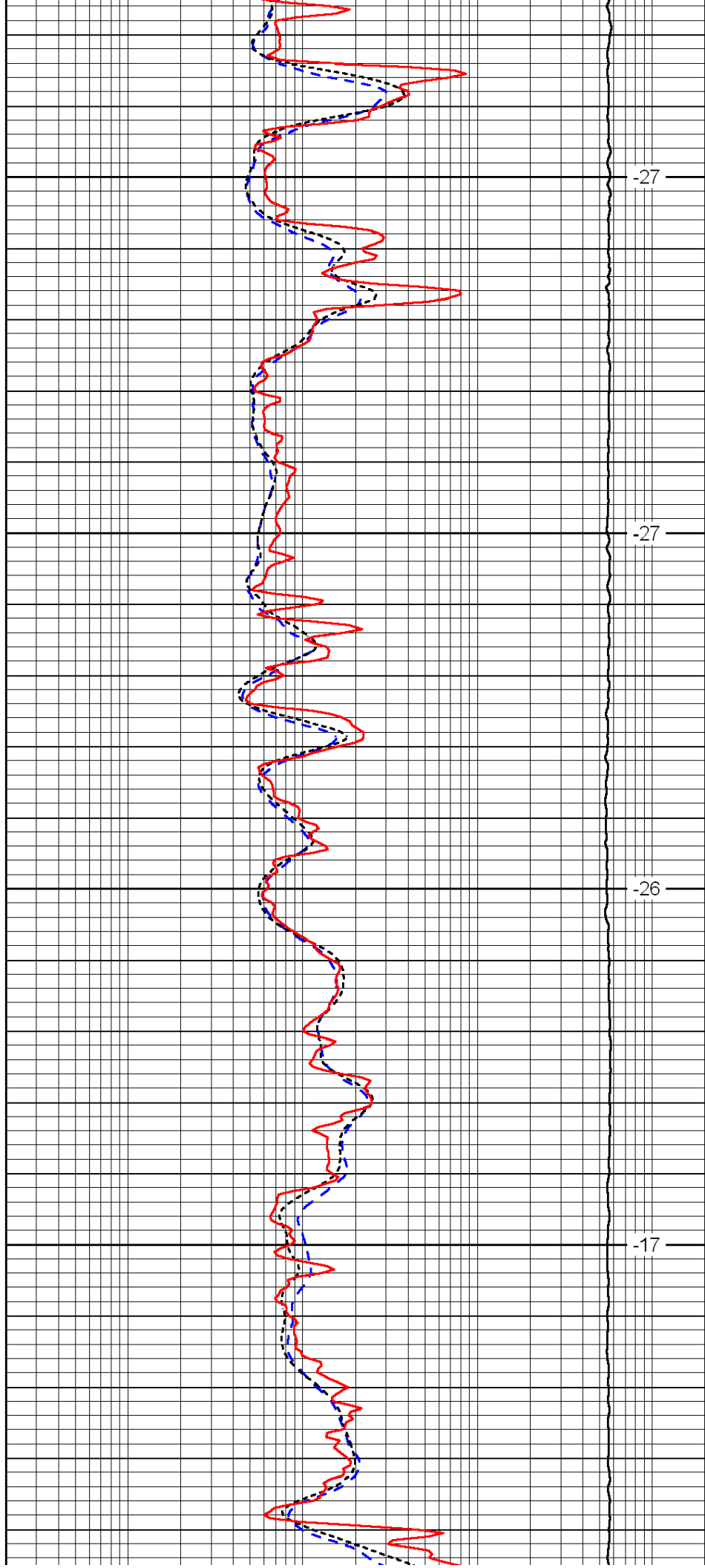


3950

4000

4050

4100

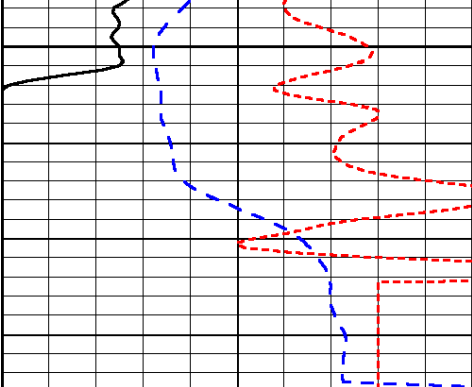


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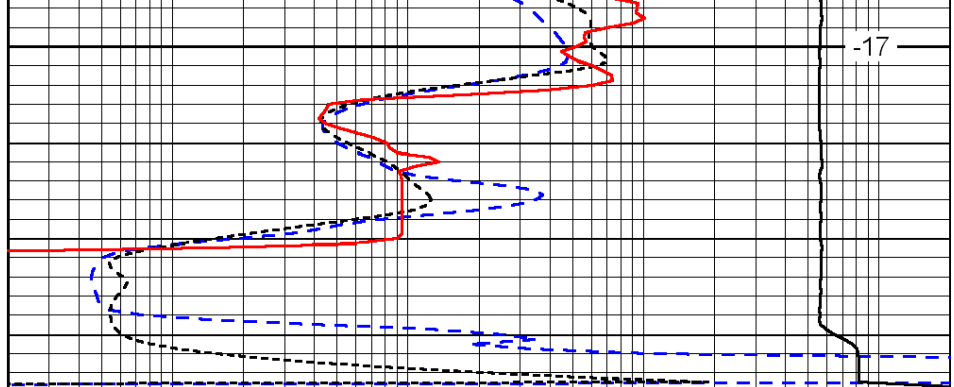
-27

-26

-17



4150



-17

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

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

LSPD