



Pioneer Energy Services

# Dual Induction Log

API No.	15-159-22778-00-00	
Company	Gilbert-Stewart Operating, LLC	
Well	Lincoln #18	
Field	Chase-Silica	
County	Rice	State
		Kansas
Location	1900' FSL / 1830' FWL	
Sec: 28	Twp: 19S	Rge: 9W
Permanent Datum	Ground Level	Elevation 1709
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL / CDL MEL / BHCS
		Elevation K.B. 1718 D.F. 1709 G.L. 1709

Date	5/5/2014
Run Number	One
Depth Driller	3350
Depth Logger	3348
Bottom Logged Interval	3347
Top Log Interval	250
Casing Driller	8.625 @ 265
Casing Logger	262
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	6900
Density / Viscosity	9.3   54
pH / Fluid Loss	10.5   8.8
Source of Sample	Flowline
Rm @ Meas. Temp	0.75 @ 58
Rmf @ Meas. Temp	0.56 @ 58
Rmc @ Meas. Temp	1.01 @ 58
Source of Rmf / Rmc	Charts
Rm @ BHT	0.40 @ 110
Operating Rig Time	4 Hours
Max Rec. Temp. F	110
Equipment Number	17
Location	Hays
Recorded By	R. Barnhart
Witnessed By	Derek Patterson

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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  
 Chase, KS:  
 1 1/2E, N into

Database File: gilbertstewarhd.db  
 Dataset Pathname: dil/gsmain  
 Presentation Format: dil2in  
 Dataset Creation: Mon May 05 08:44:34 2014  
 Charted by: Depth in Feet scaled 1:600

Gamma Ray (GAPI) 150  
-200 SP (mV) 0

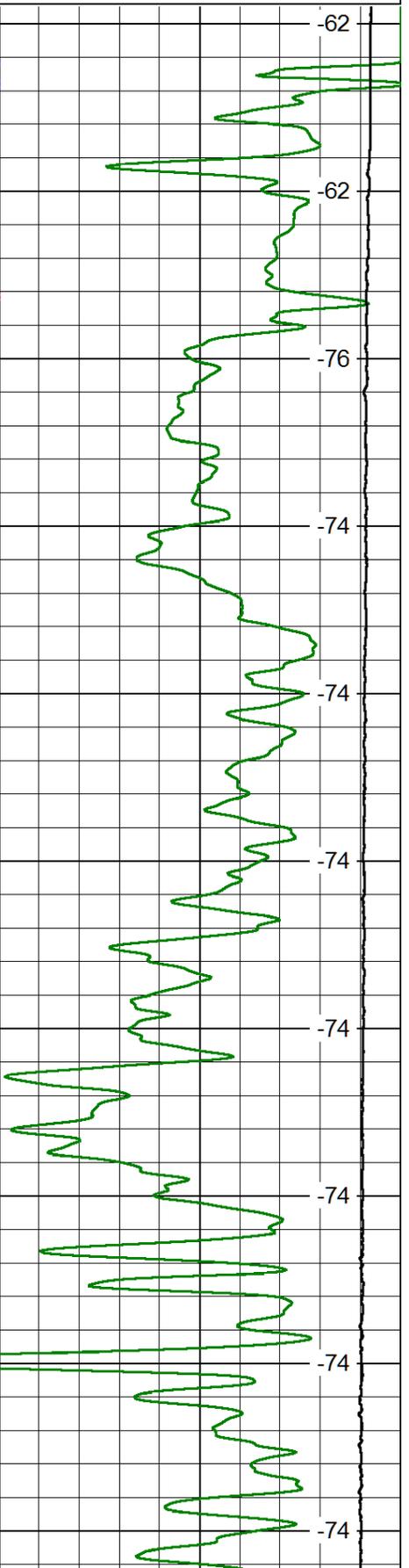
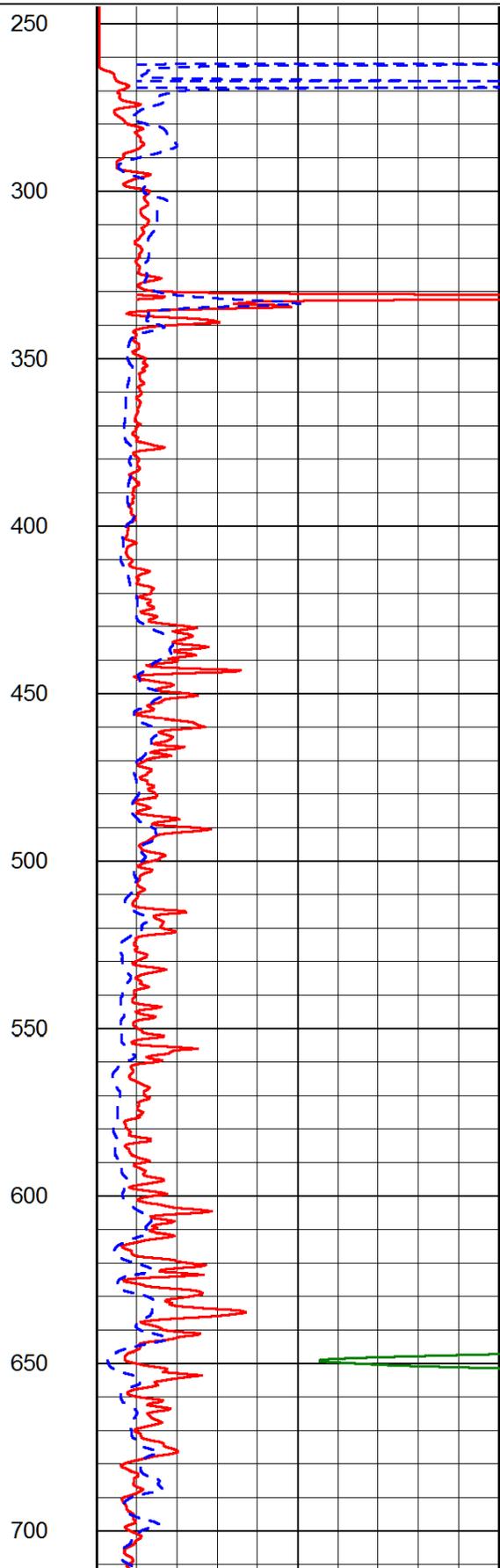
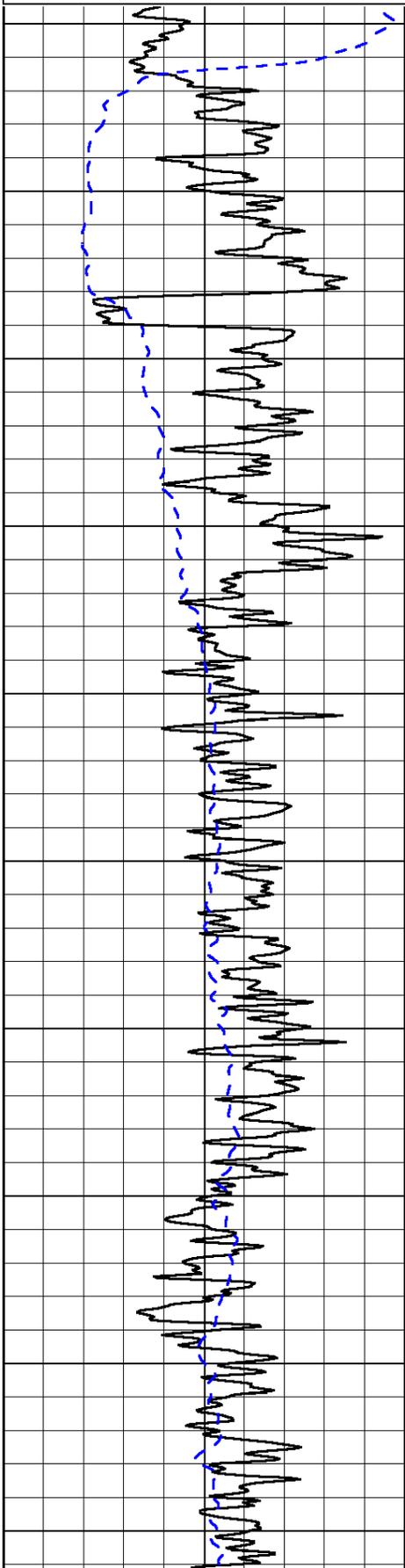
0 Shallow Resistivity (Ohm-m) 50  
0 Deep Resistivity (Ohm-m) 50

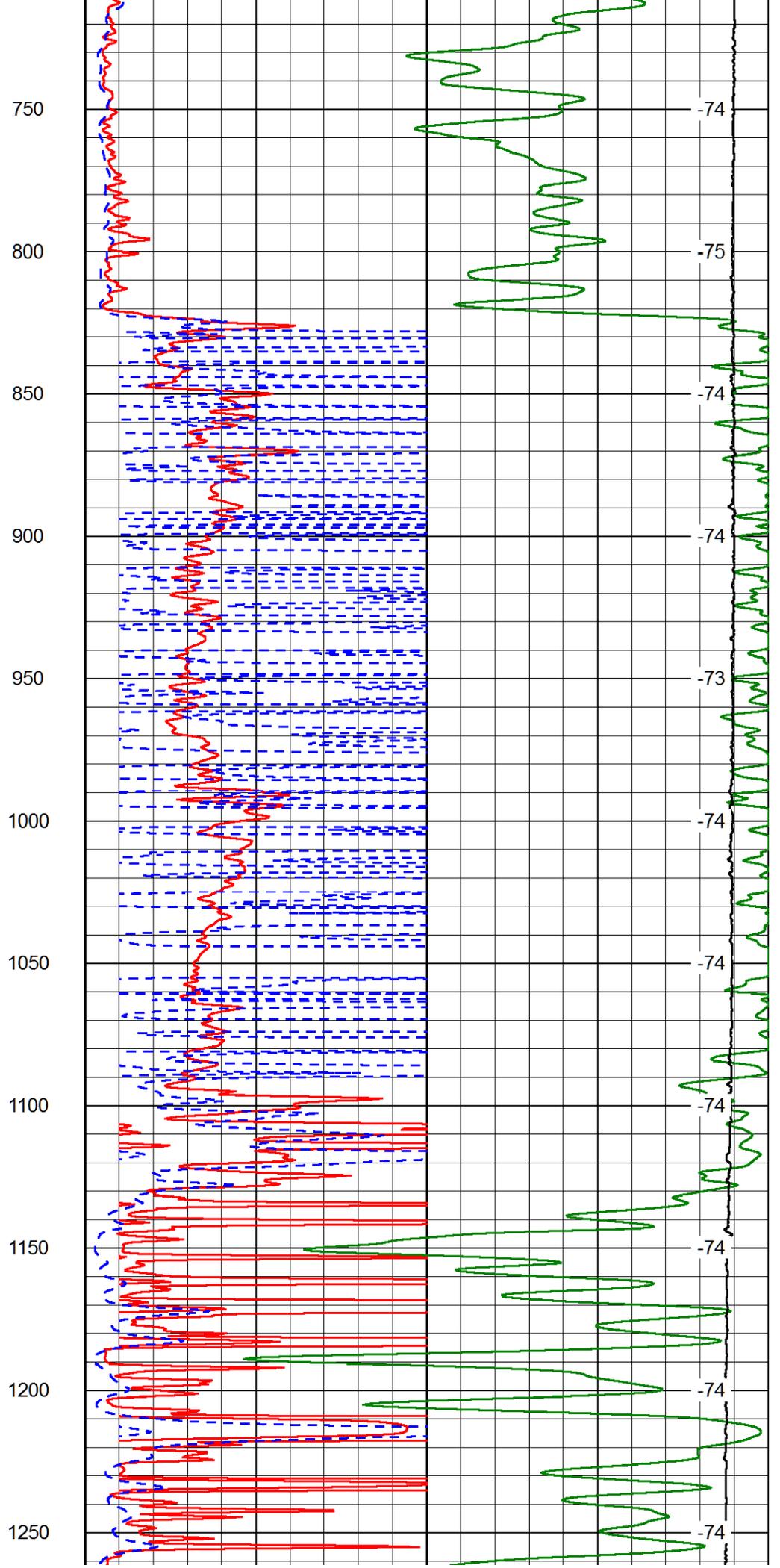
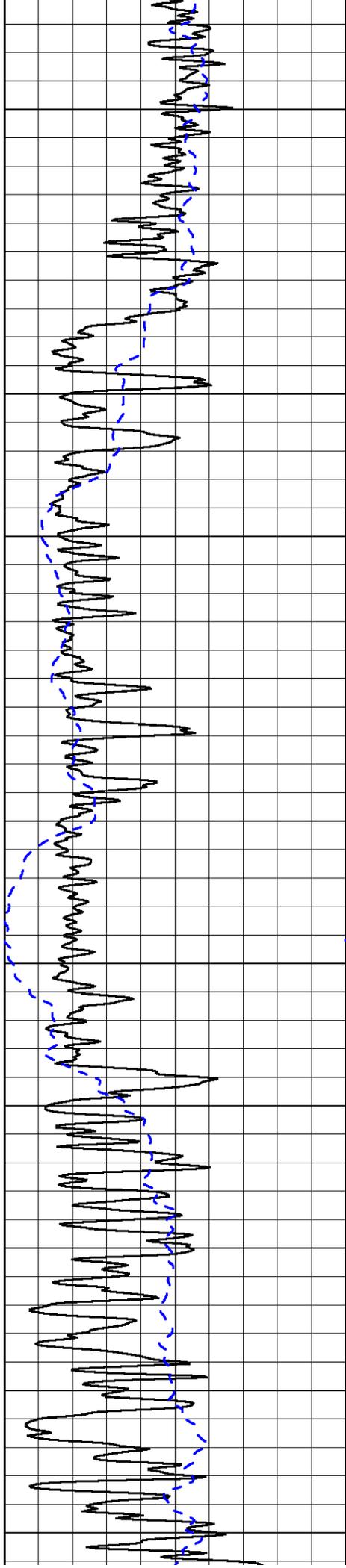
LSPD  
(ft/min)

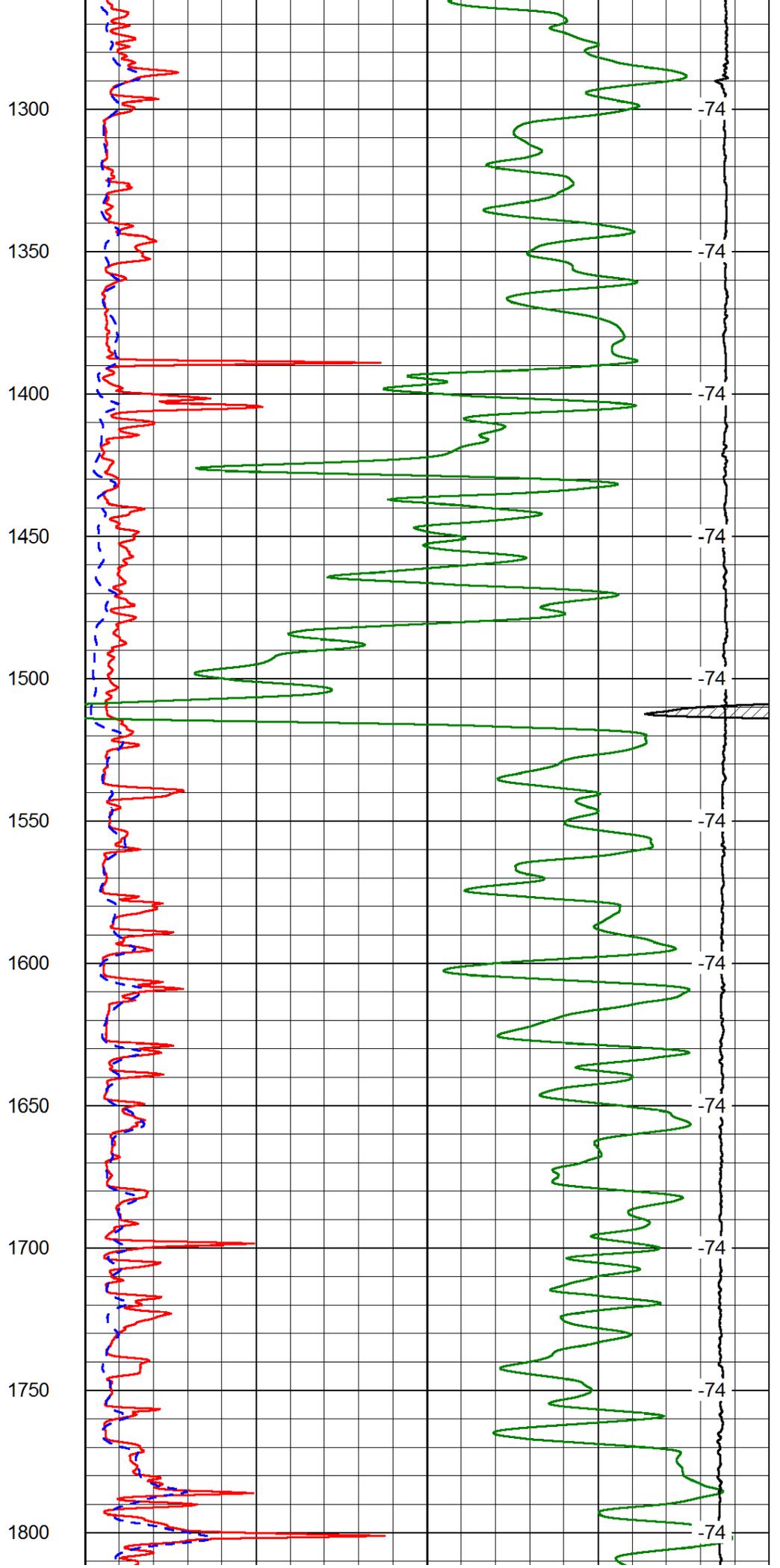
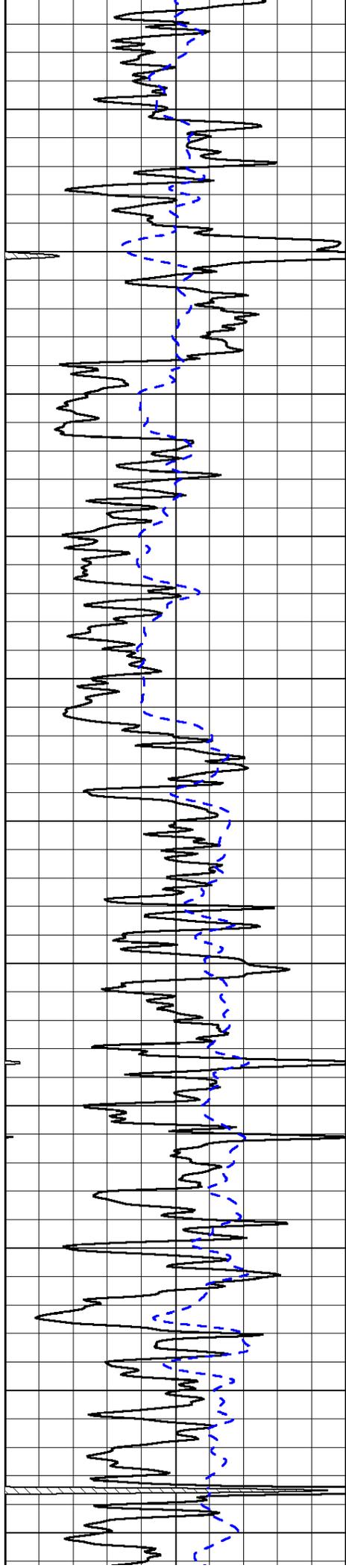
1000 Conductivity 0

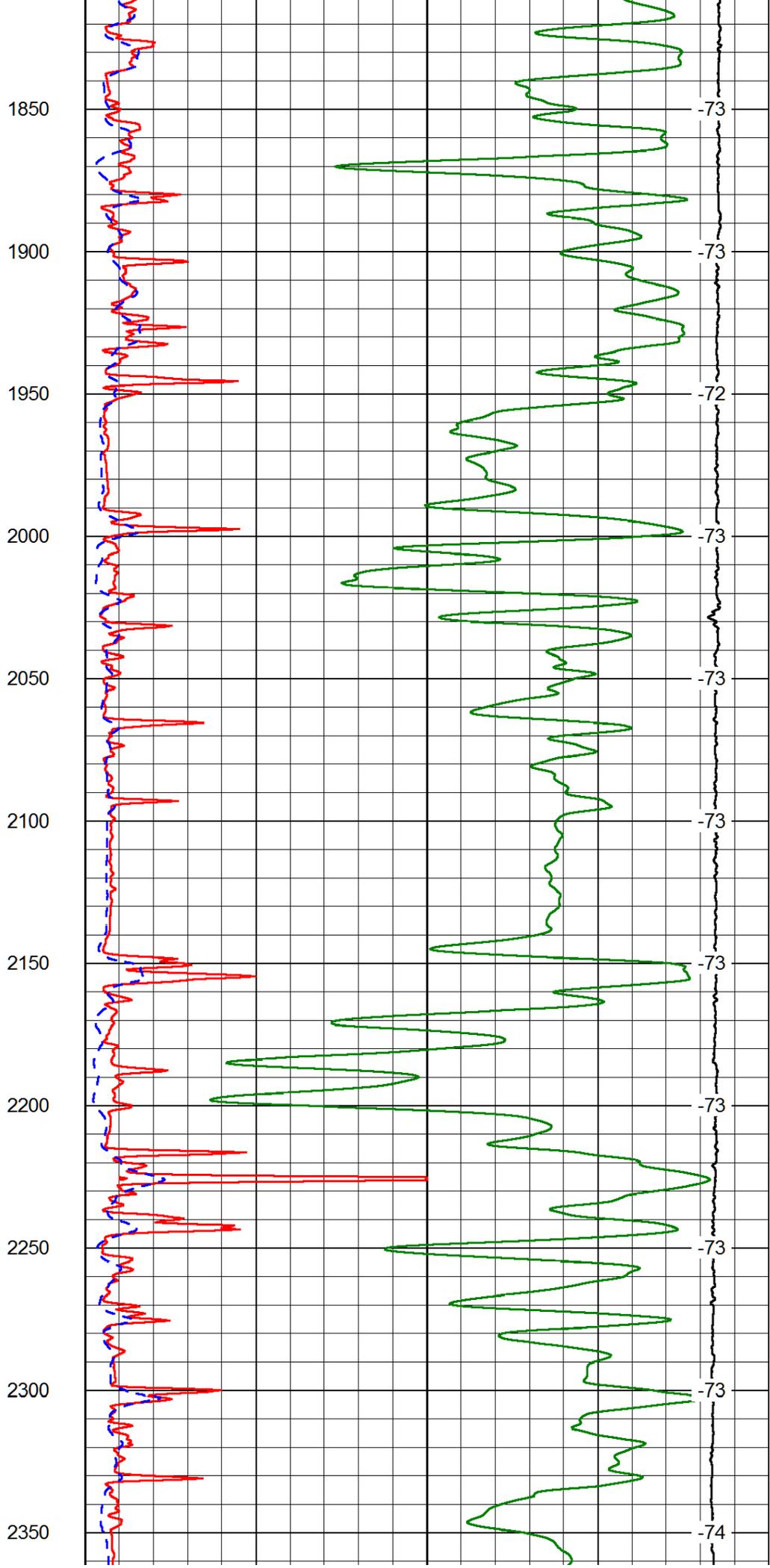
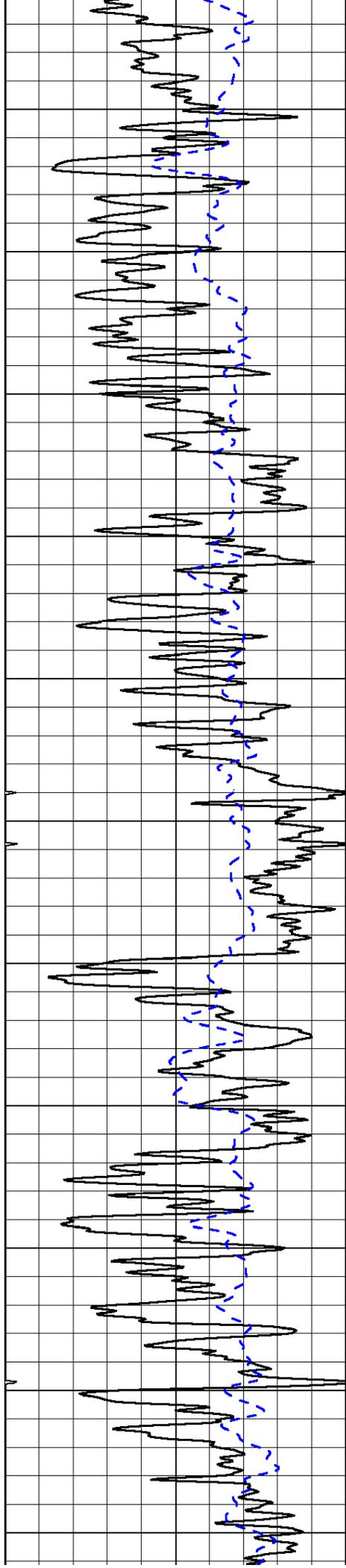
15000 Line Tension (lb) 0

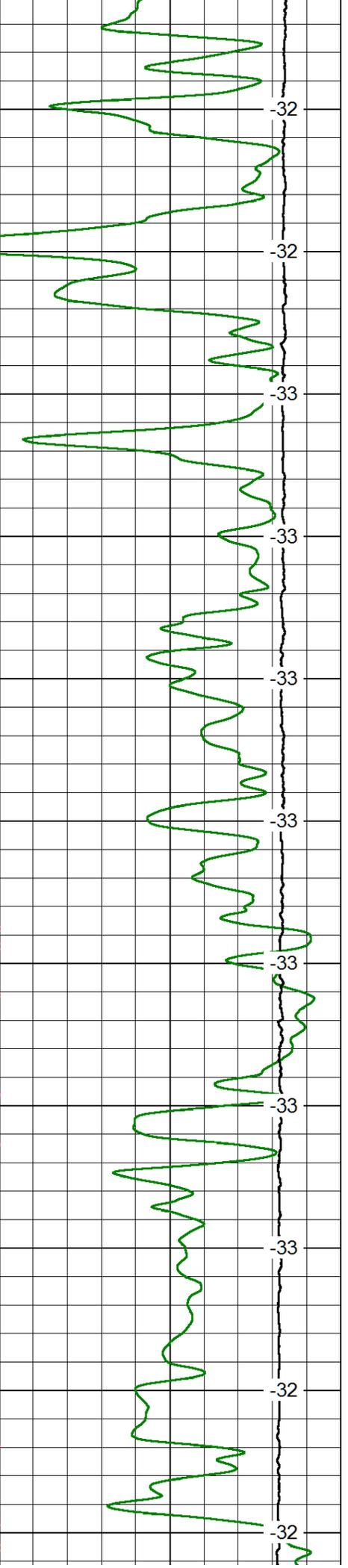
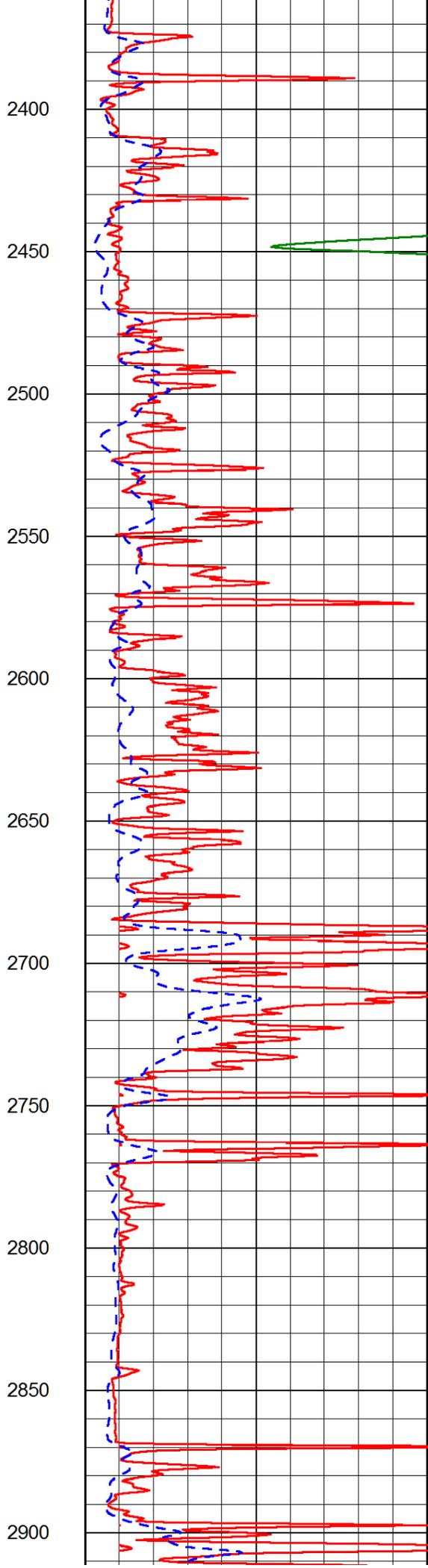
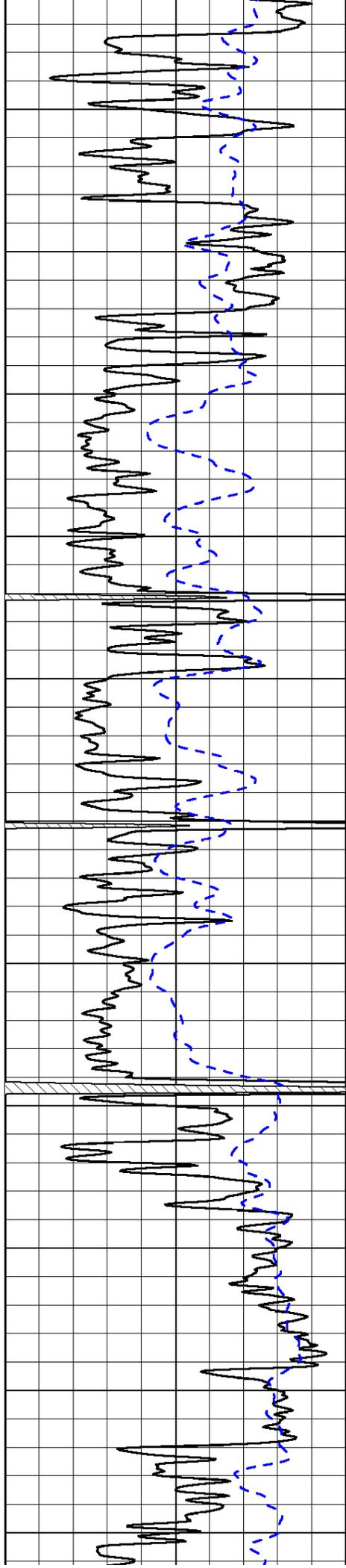
Shallow Resistivity  
50 (Ohm-m) 500  
50 Deep Resistivity (Ohm-m) 500

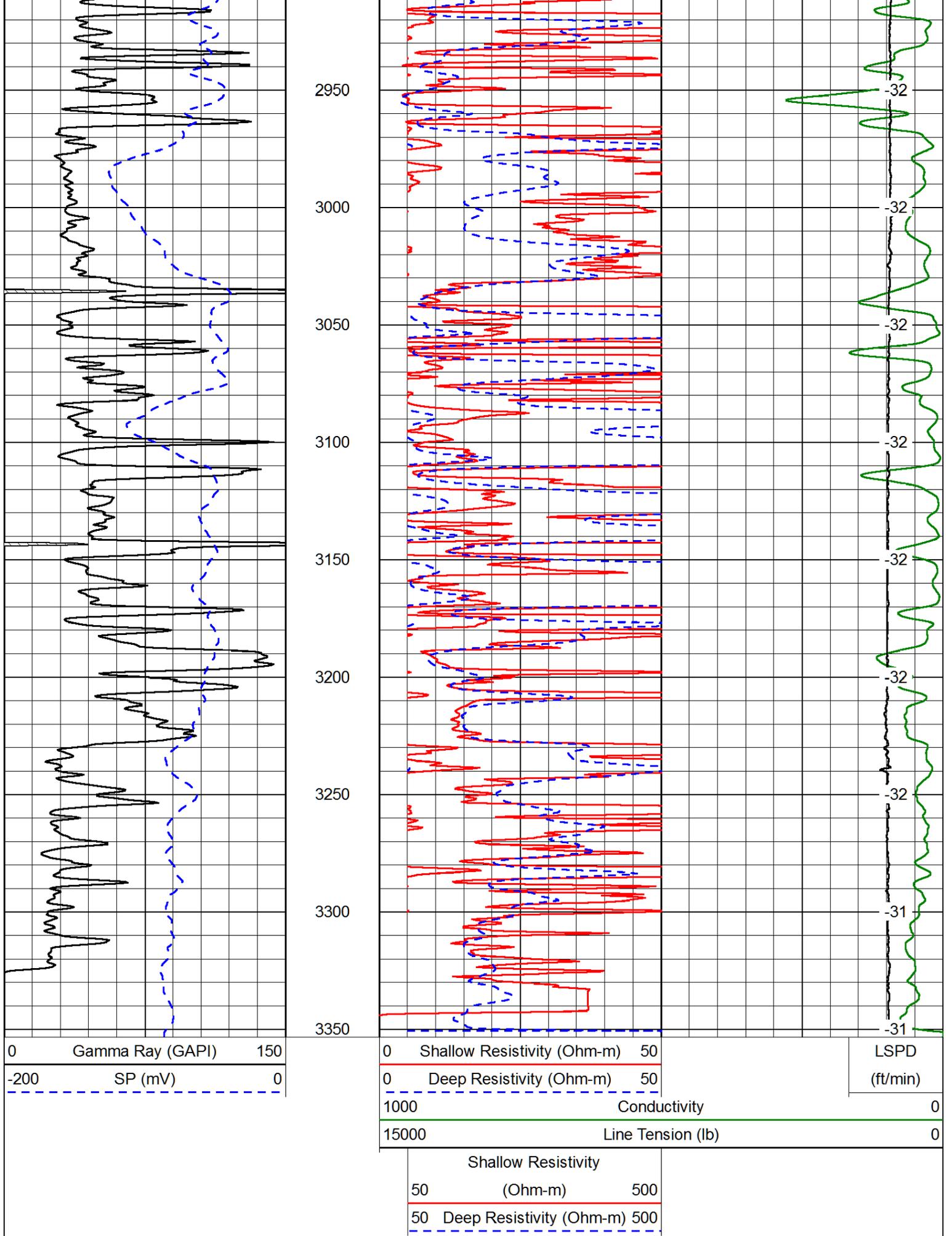










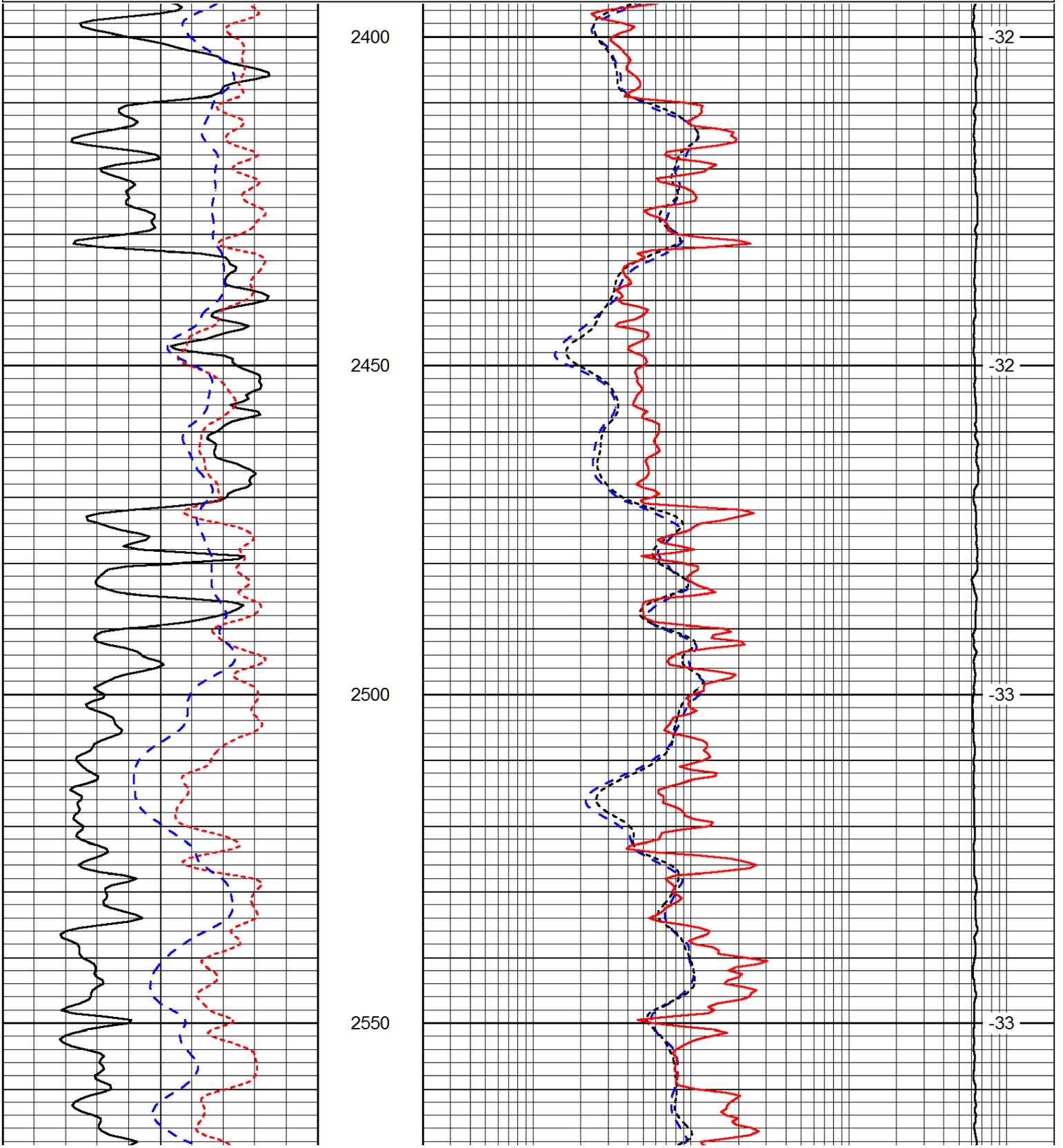


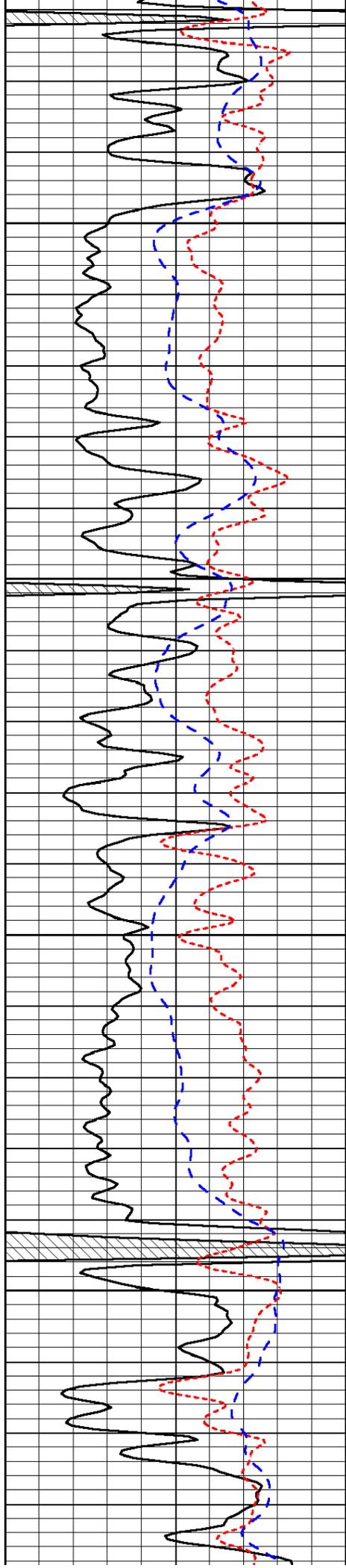
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 Dataset Pathname: dil/gsmain  
 Presentation Format: dil  
 Dataset Creation: Mon May 05 08:44:34 2014  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD  
(ft/min)



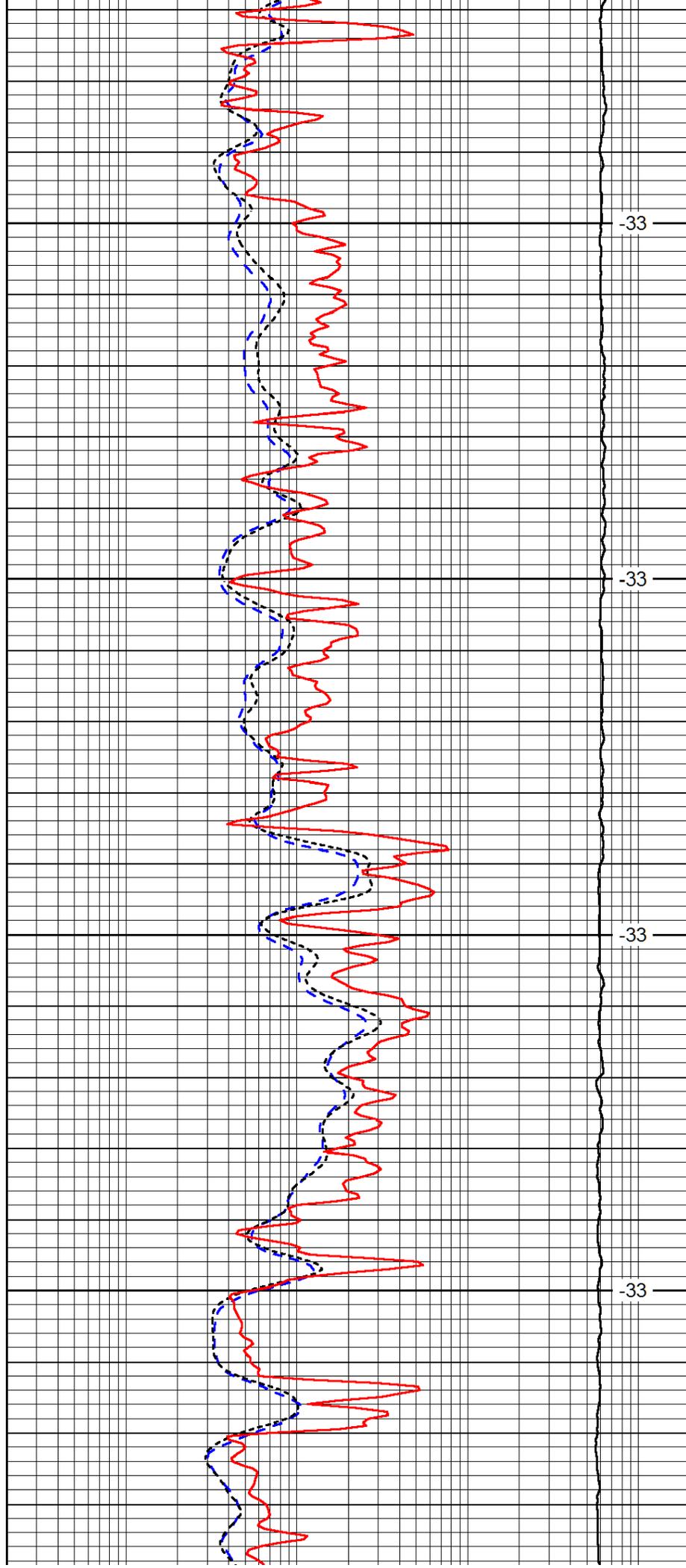


2600

2650

2700

2750

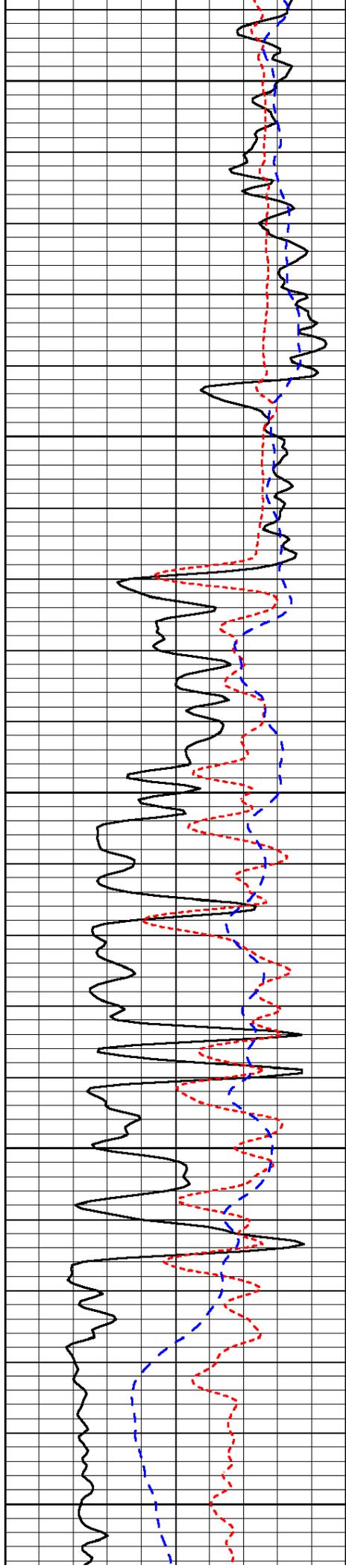


-33

-33

-33

-33



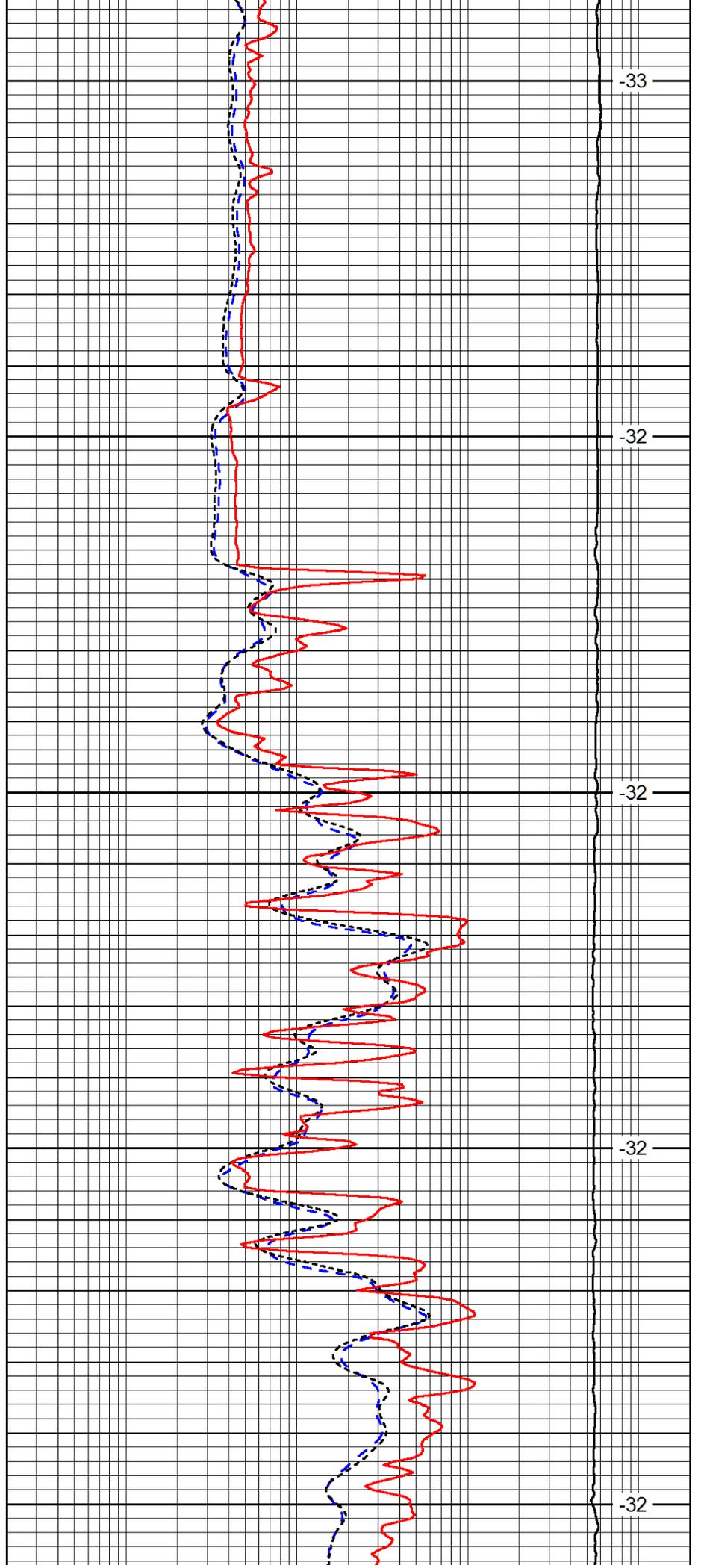
2800

2850

2900

2950

3000



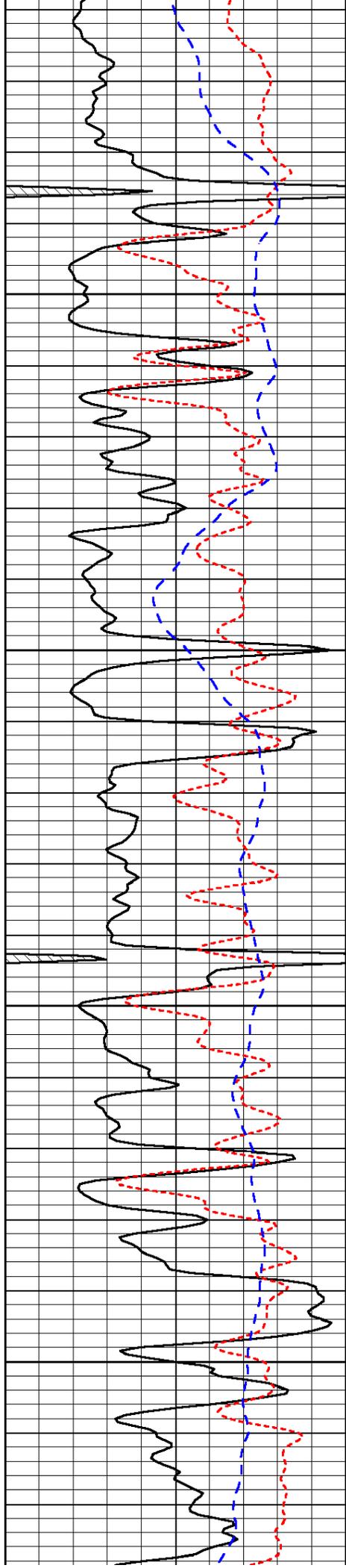
-33

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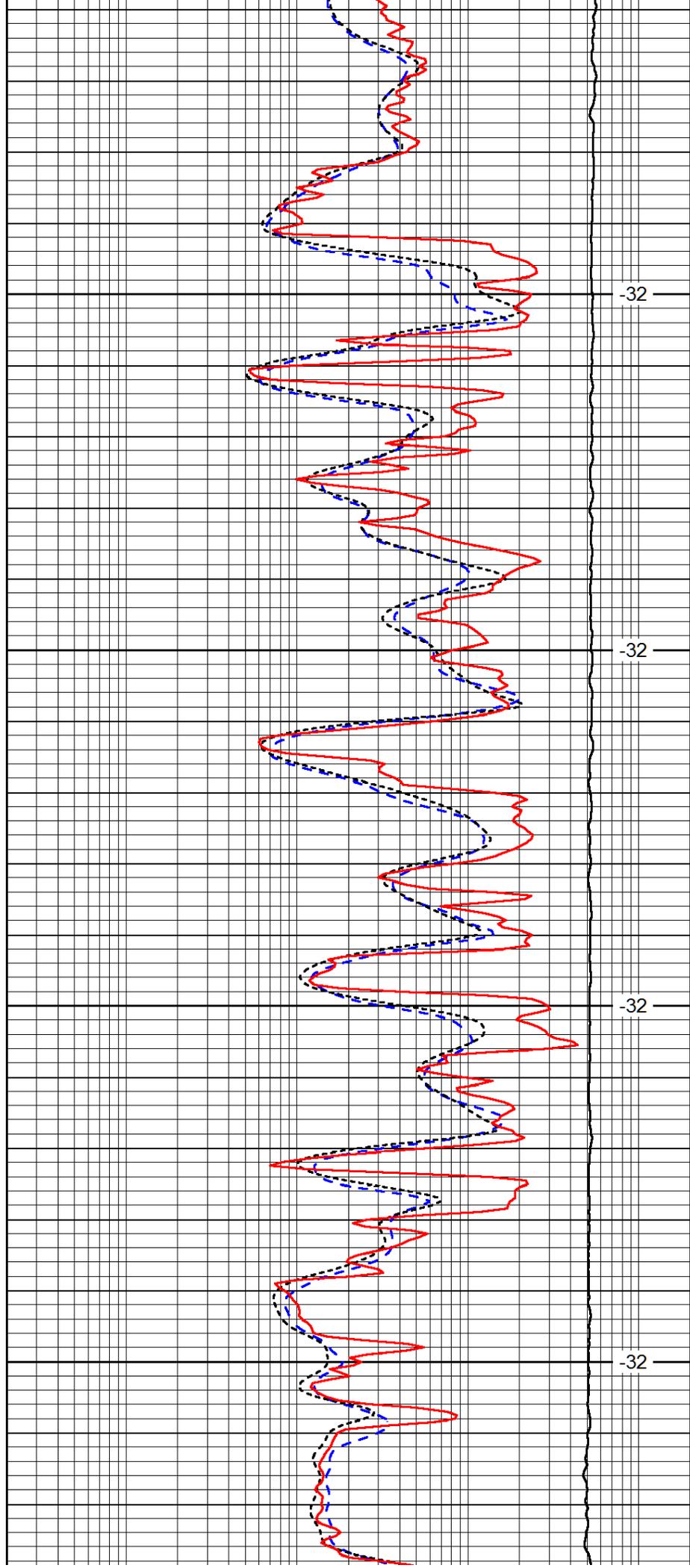


3050

3100

3150

3200



-32

-32

-32

-32

