



Pioneer Energy Services

Dual Induction Log

API No.	15-053-21293-00-00	
Company	American Warrior, Inc.	
Well	White #5-8	
Field	Stoltenberg	
County	Ellsworth	State
Location	NW NE SE NW 1490' FNL / 2259' FWL	Kansas
Sec: 8	Twp: 16S	Rge: 10W
Permanent Datum	Ground Level	Elevation 1848
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL / CDL MEL / BHCS
		Elevation K.B. 1856 D.F. 1848 G.L. 1848

Date	11/23/2013
Run Number	One
Depth Driller	3600
Depth Logger	3607
Bottom Logged Interval	3606
Top Log Interval	350
Casing Driller	8.625 @ 374
Casing Logger	366
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	6500
Density / Viscosity	9.3 59
pH / Fluid Loss	11.0 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	0.70 @ 45
Rmf @ Meas. Temp	0.53 @ 45
Rmc @ Meas. Temp	0.95 @ 45
Source of Rmf / Rmc	Charts
Rm @ BHT	0.28 @ 112
Operating Rig Time	4 Hours
Max Rec. Temp. F	112
Equipment Number	17
Location	Hays
Recorded By	R. Barnhart
Witnessed By	Clint Musgrove

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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

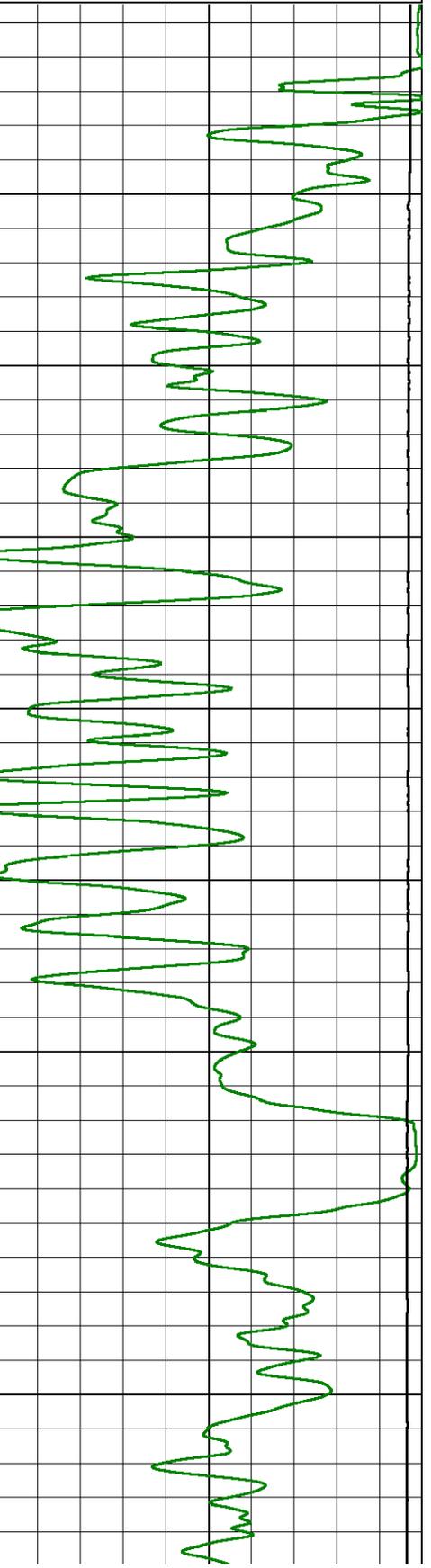
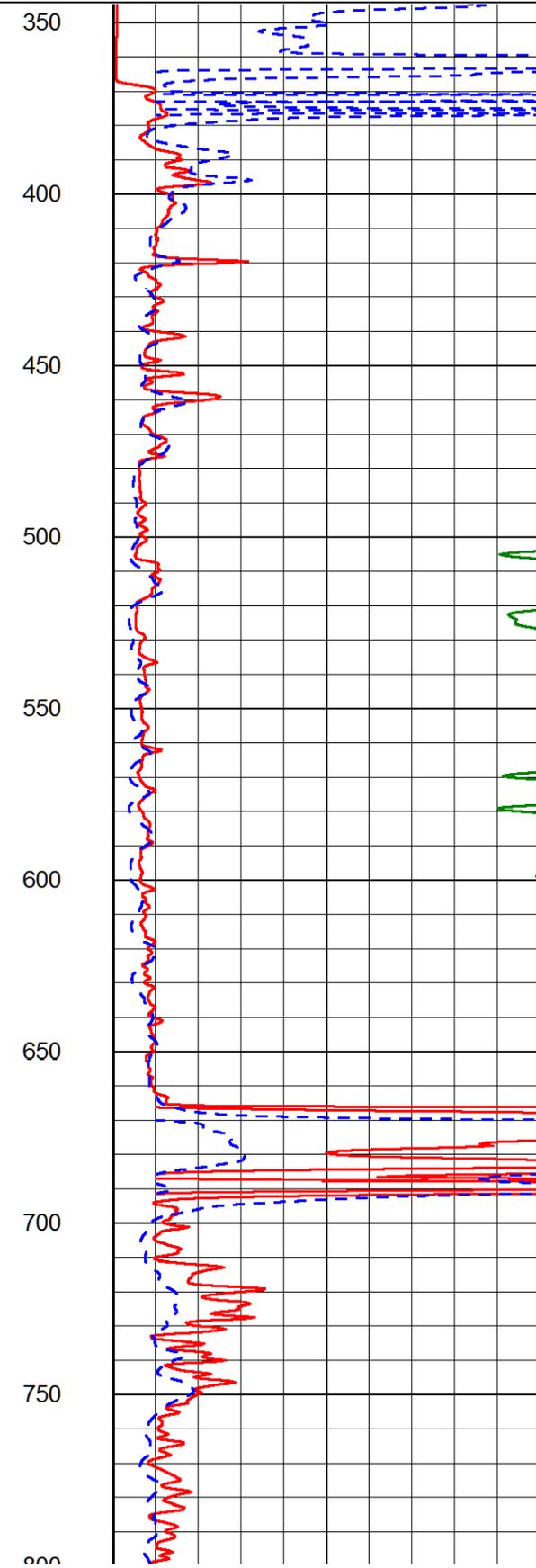
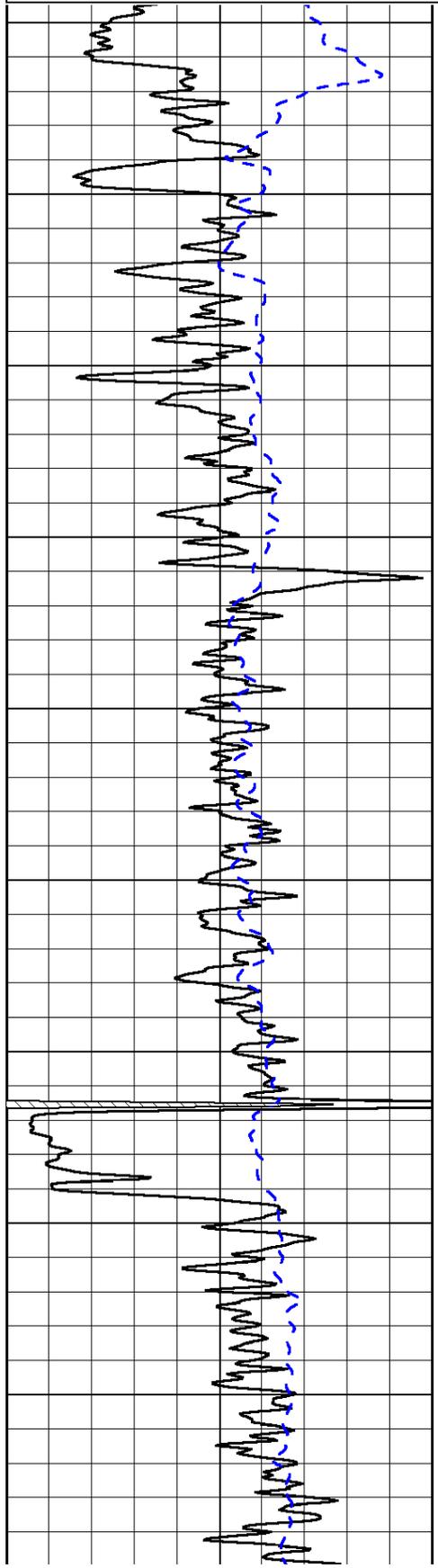
Thank you for using Log-Tech, Inc.
 (785) 625-3858

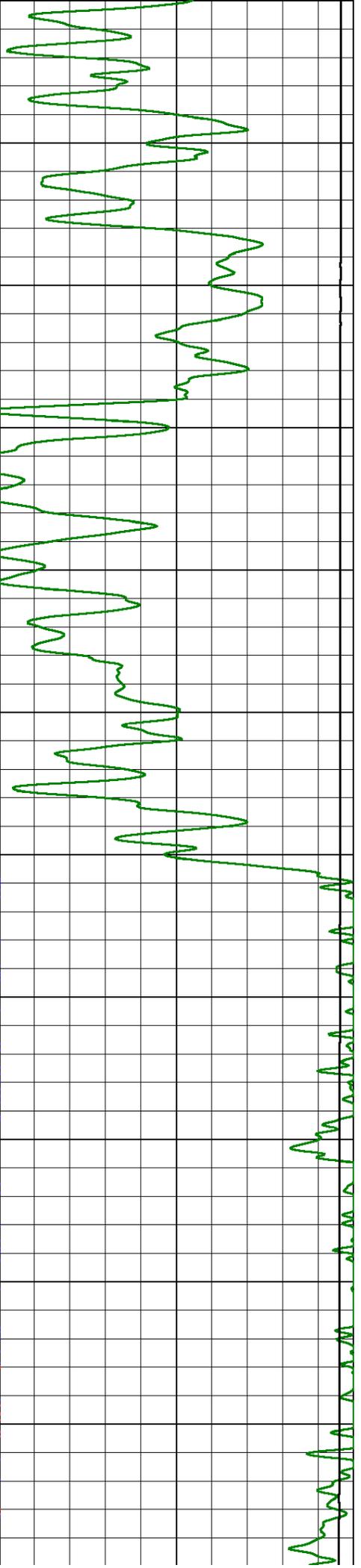
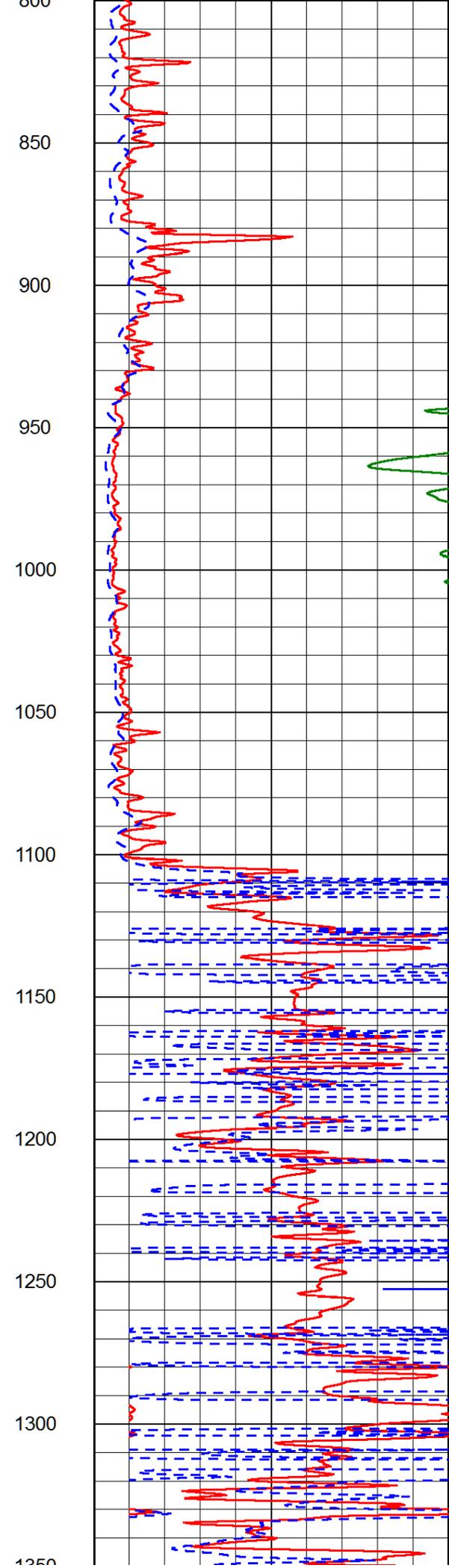
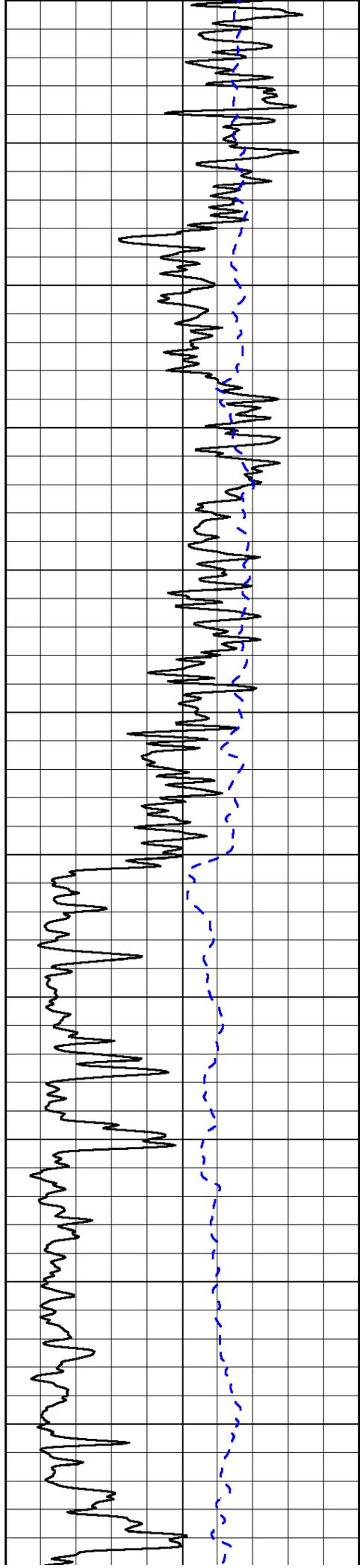
Wilson, KS:
 10S, 1 1/2E, S into

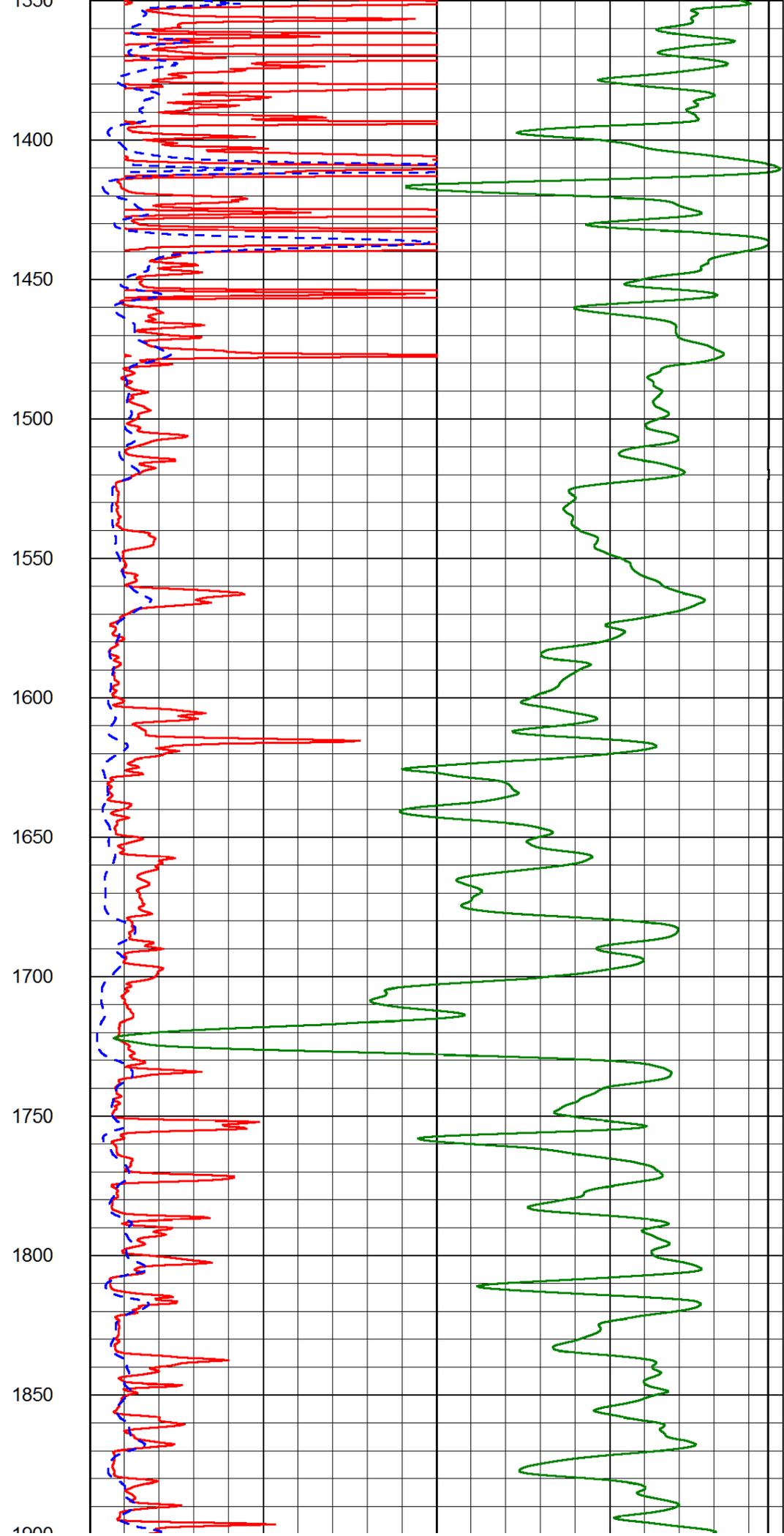
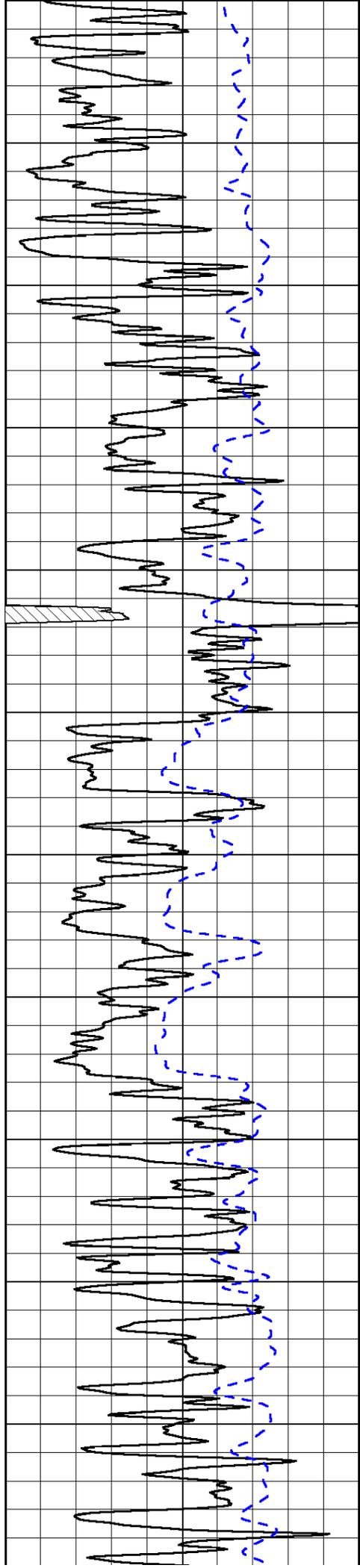
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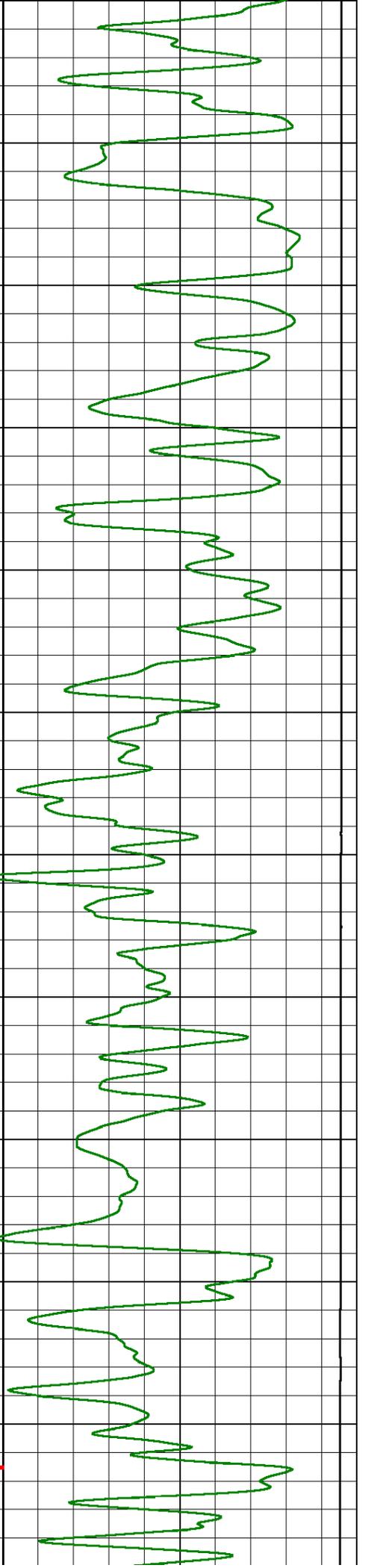
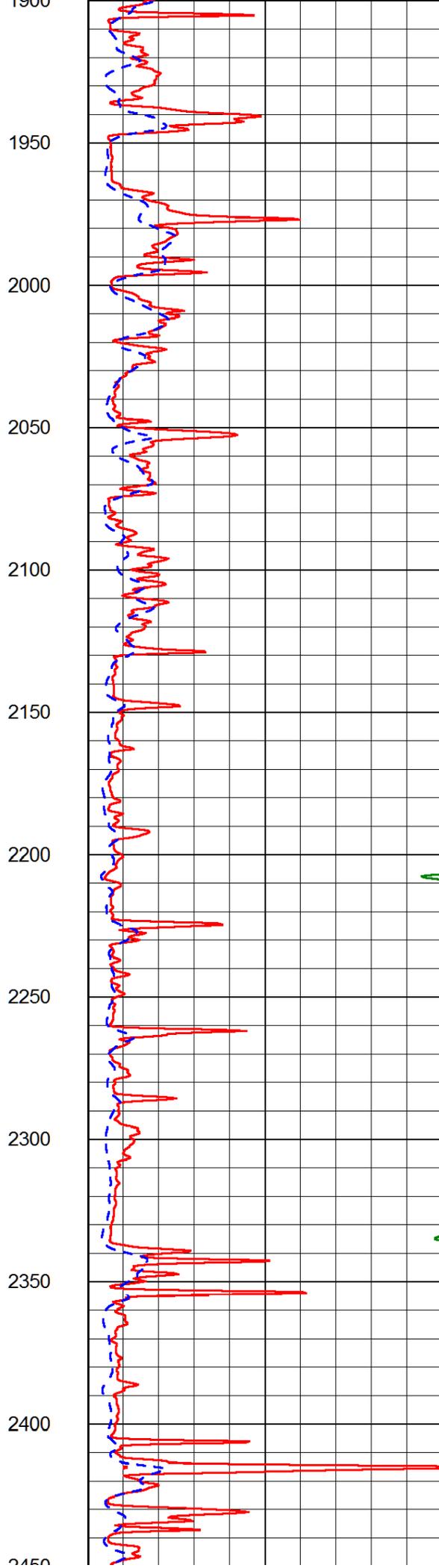
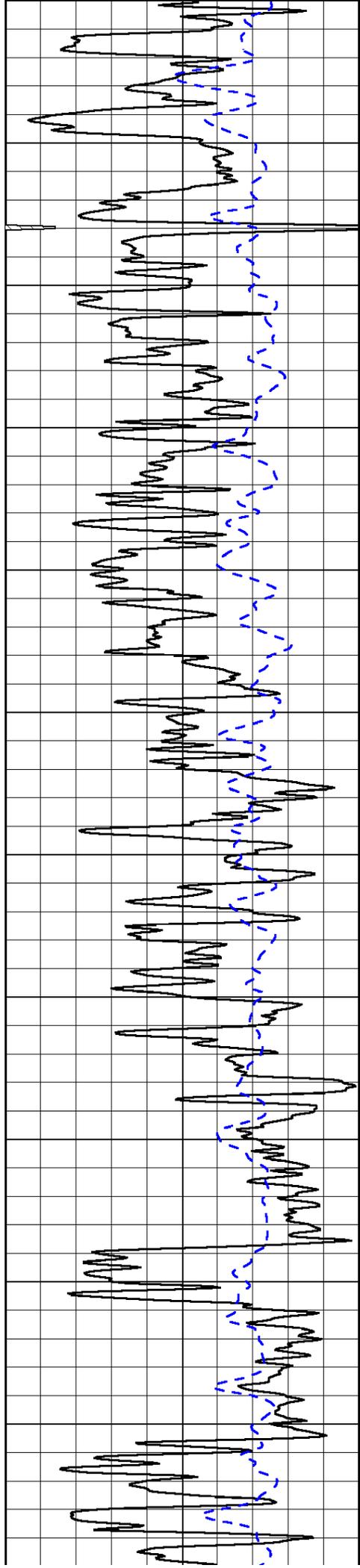
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

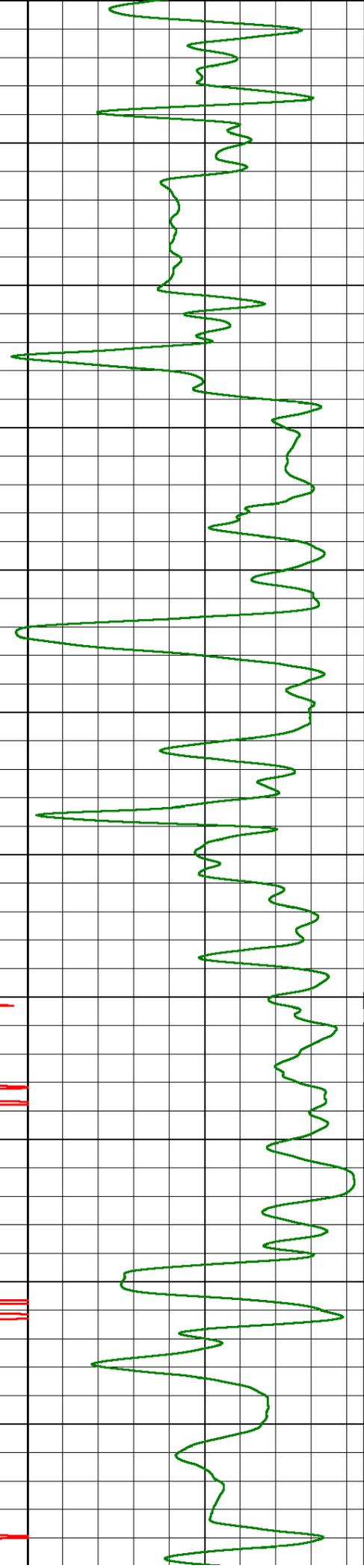
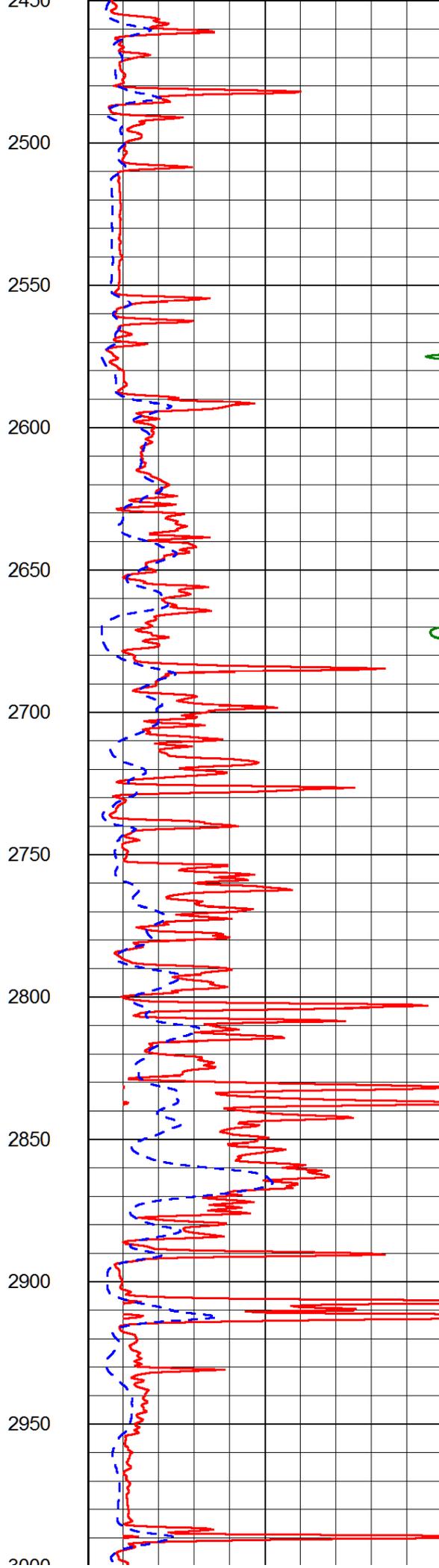
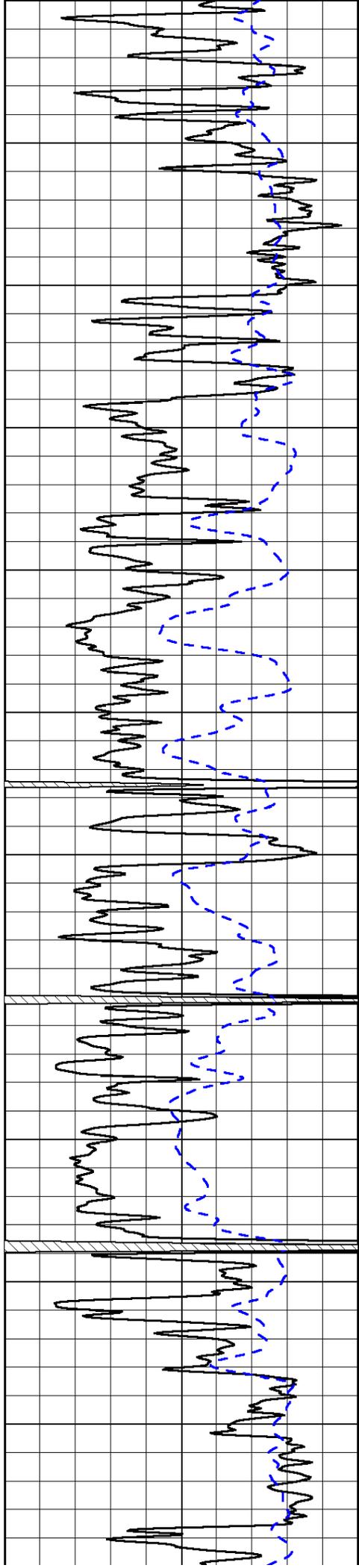
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

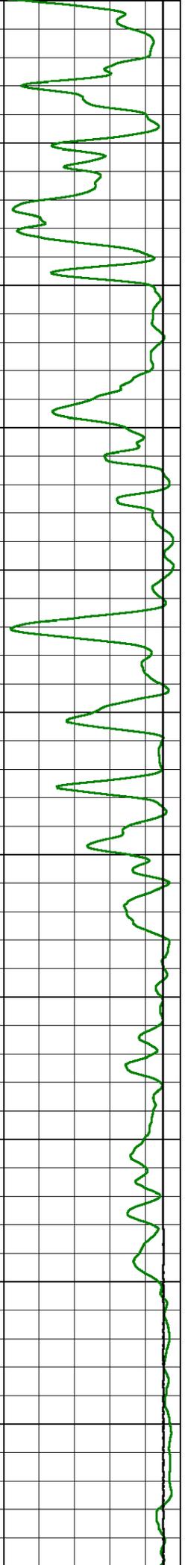
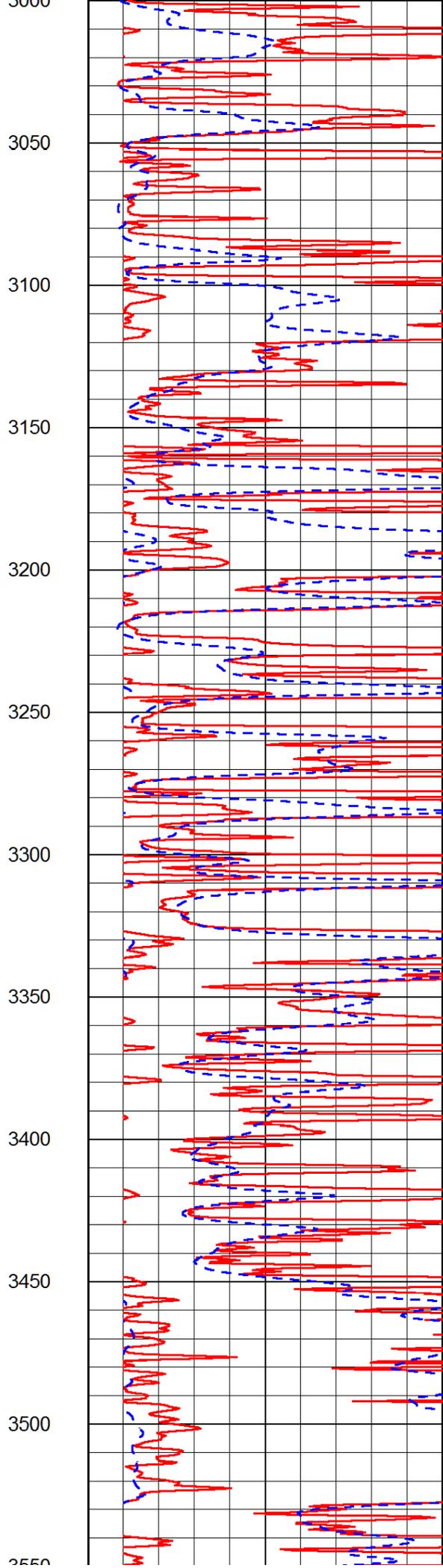
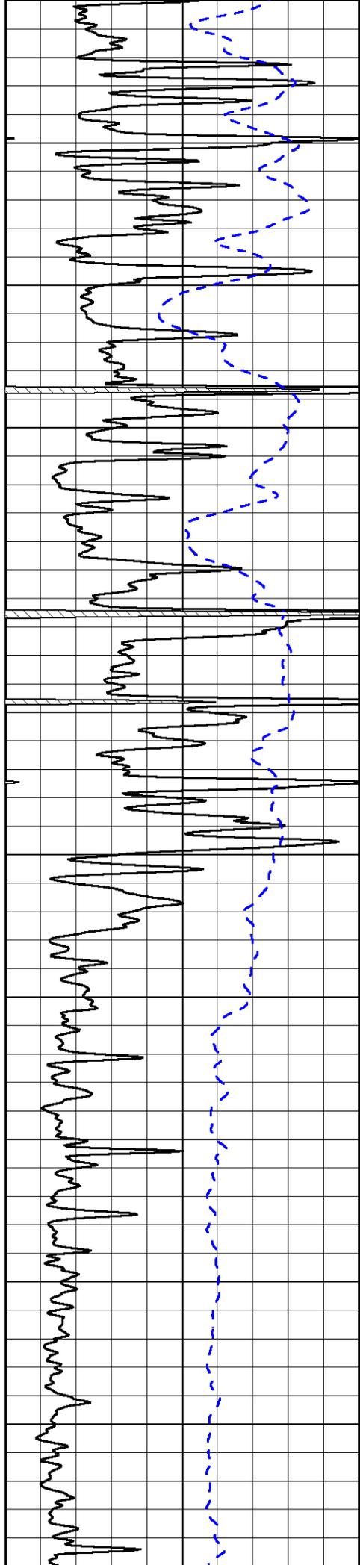


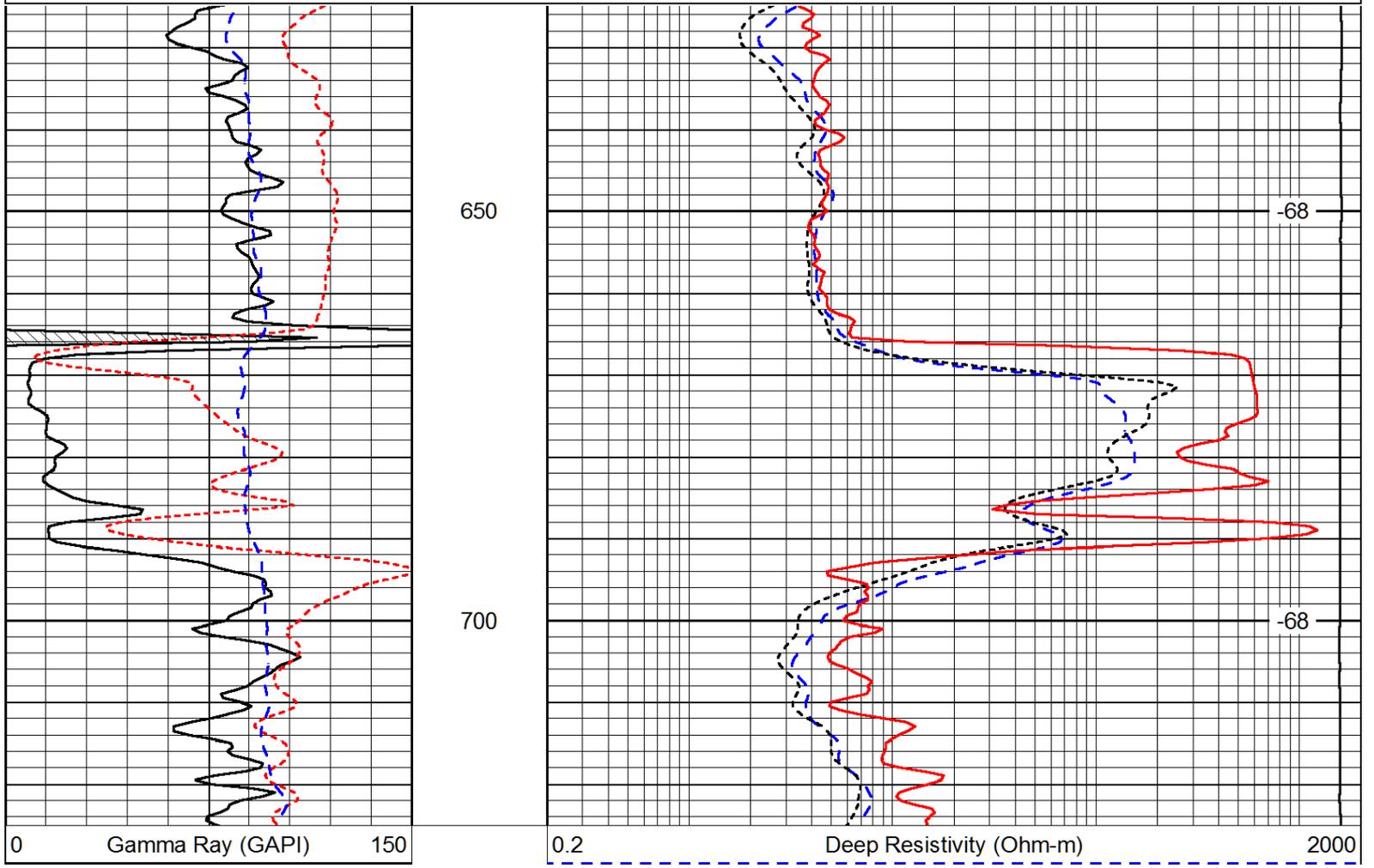
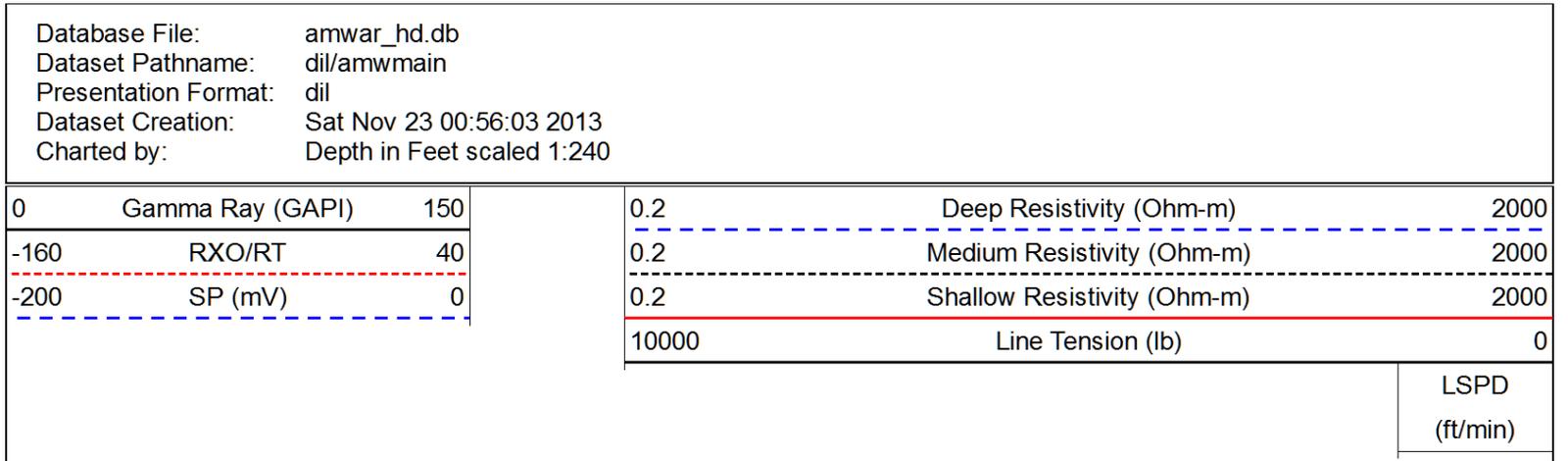
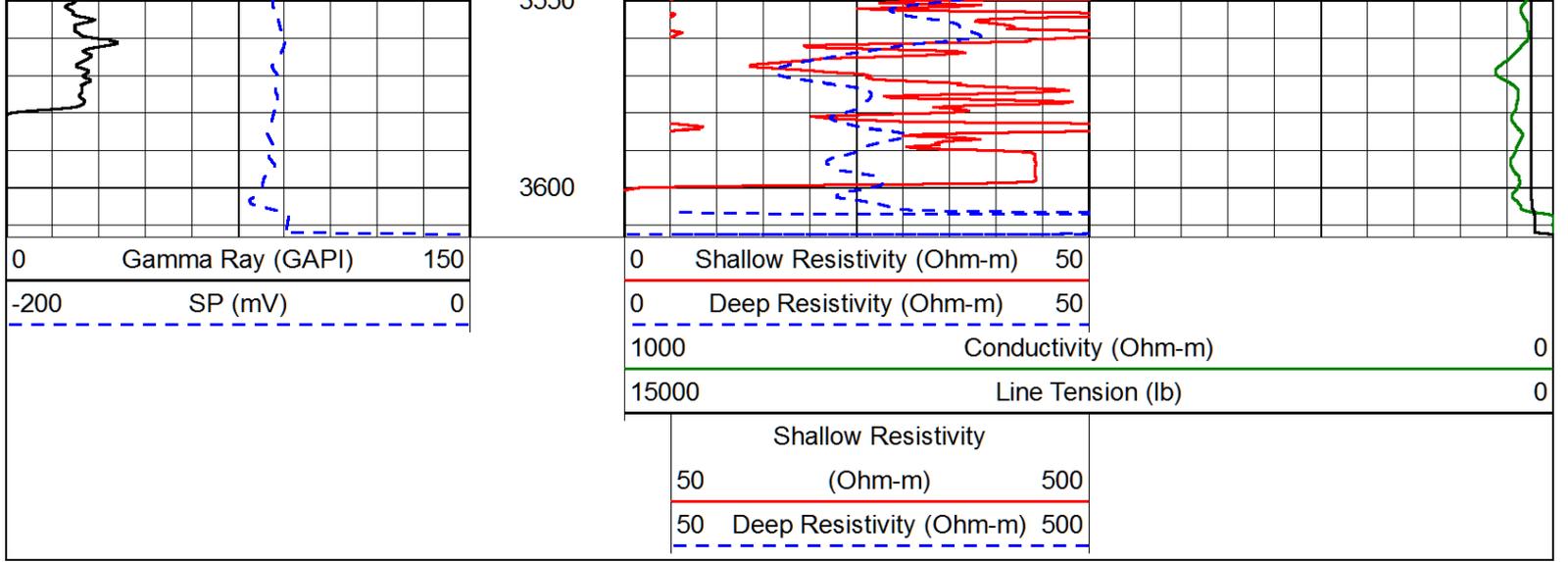












-160	RXO/RT	40
-200	SP (mV)	0

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

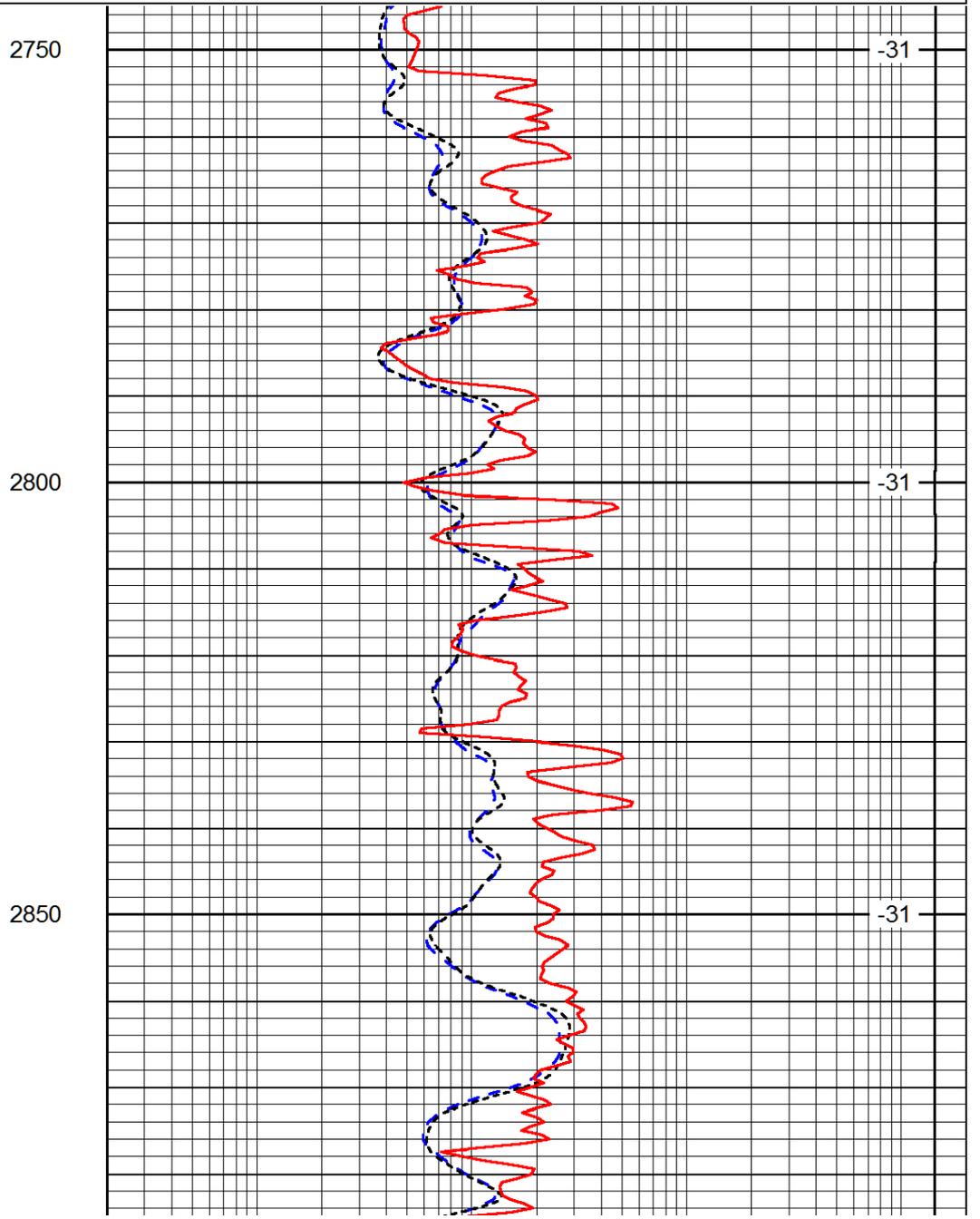
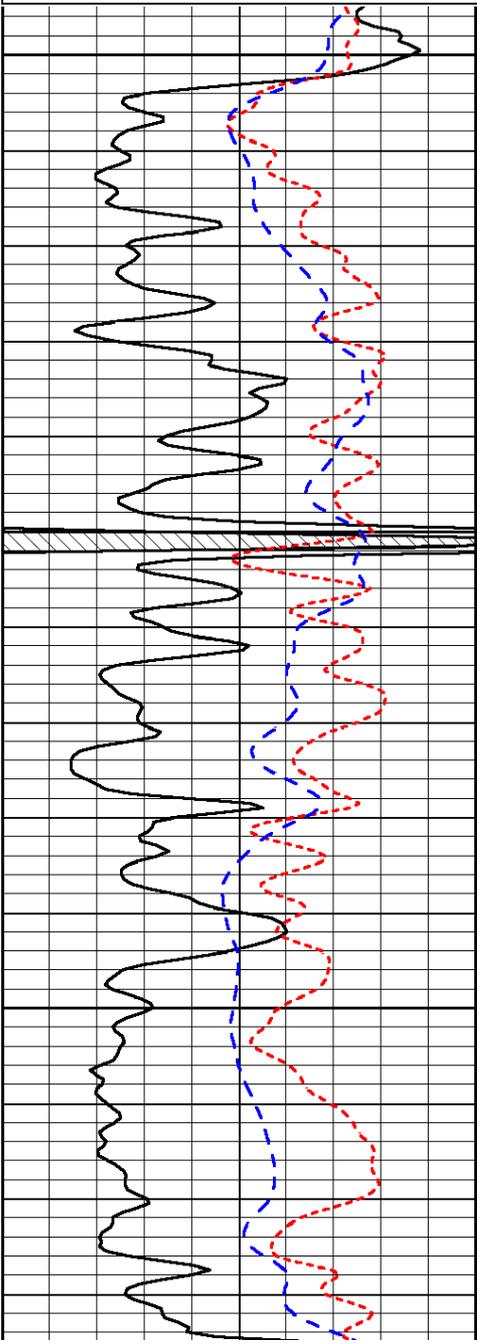
LSPD
(ft/min)

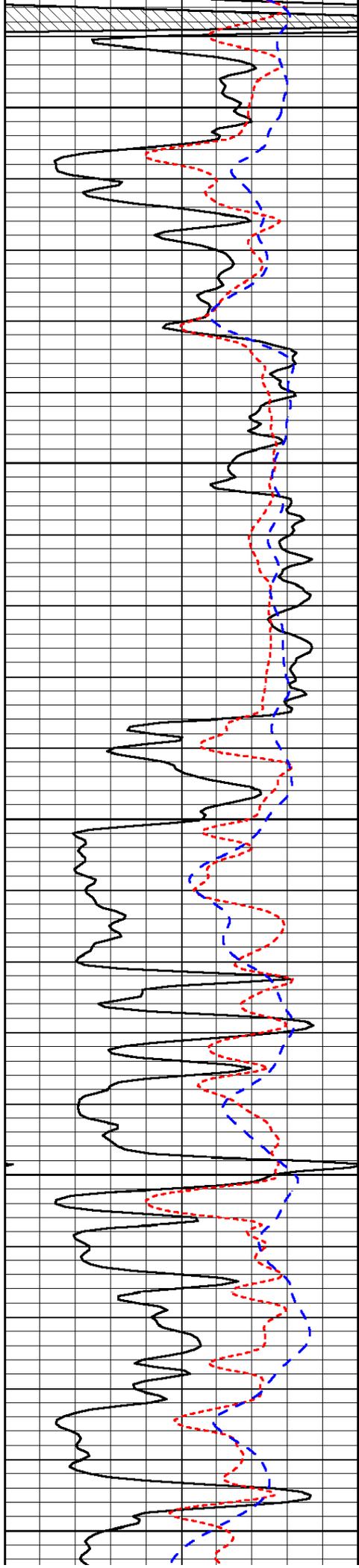
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 Charted by: Depth in Feet scaled 1:240

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)





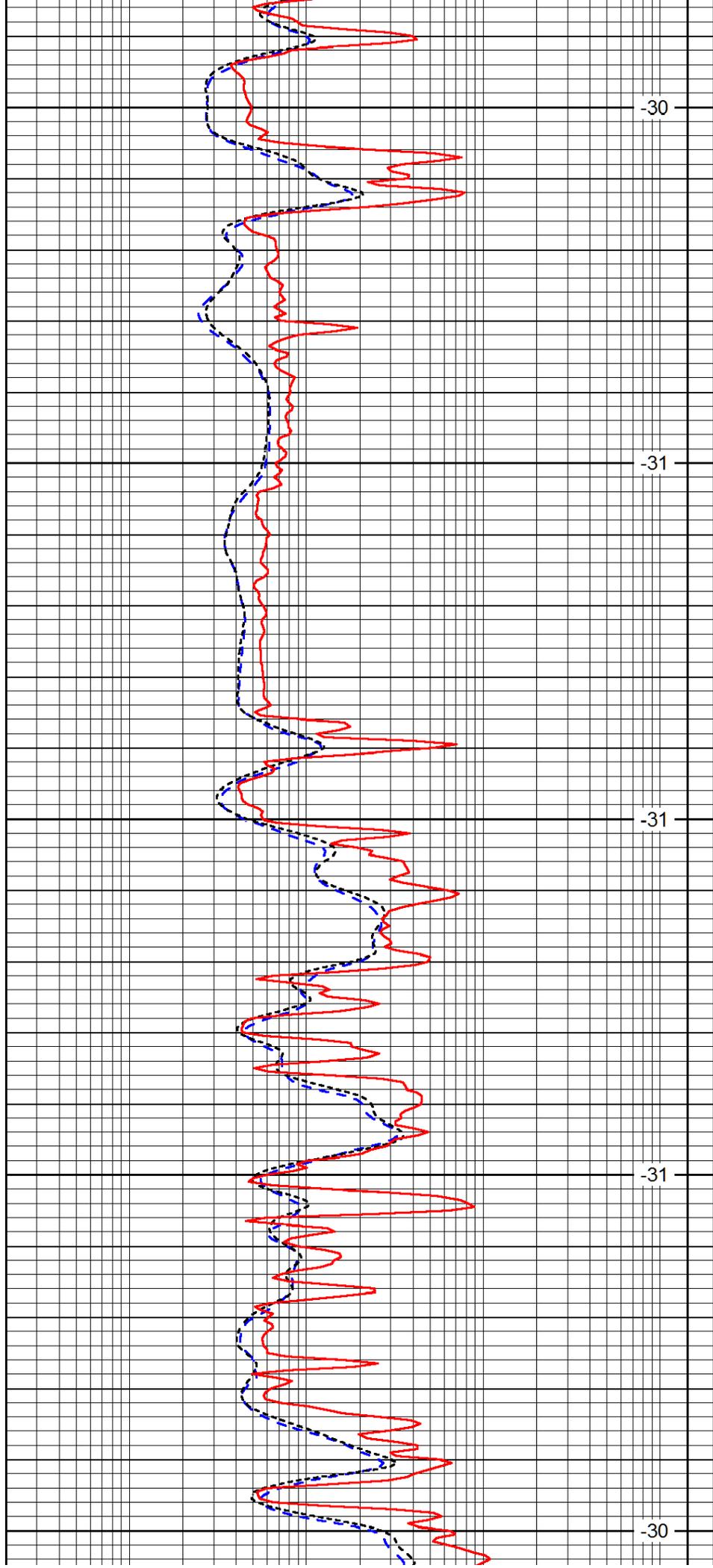
2900

2950

3000

3050

3100



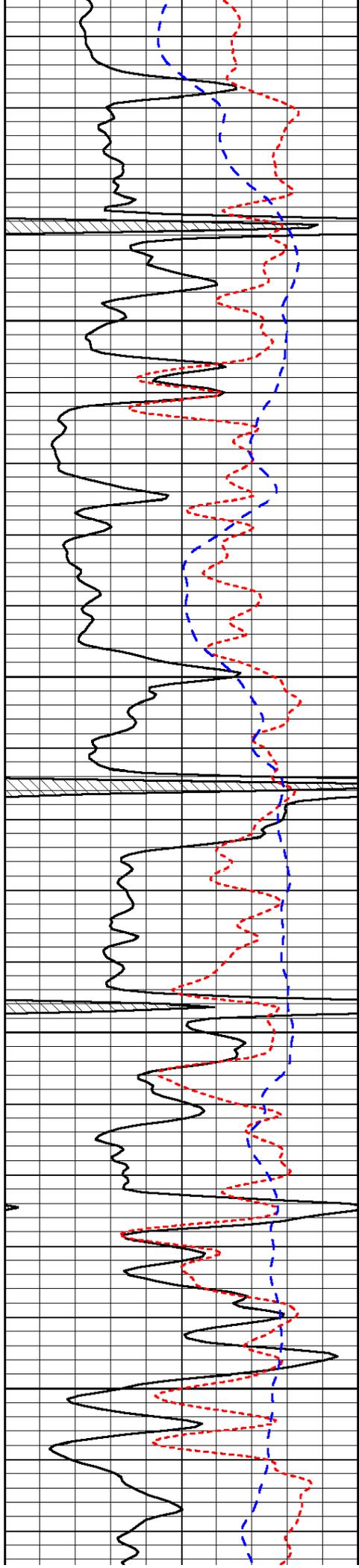
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-31

-31

-31

-30

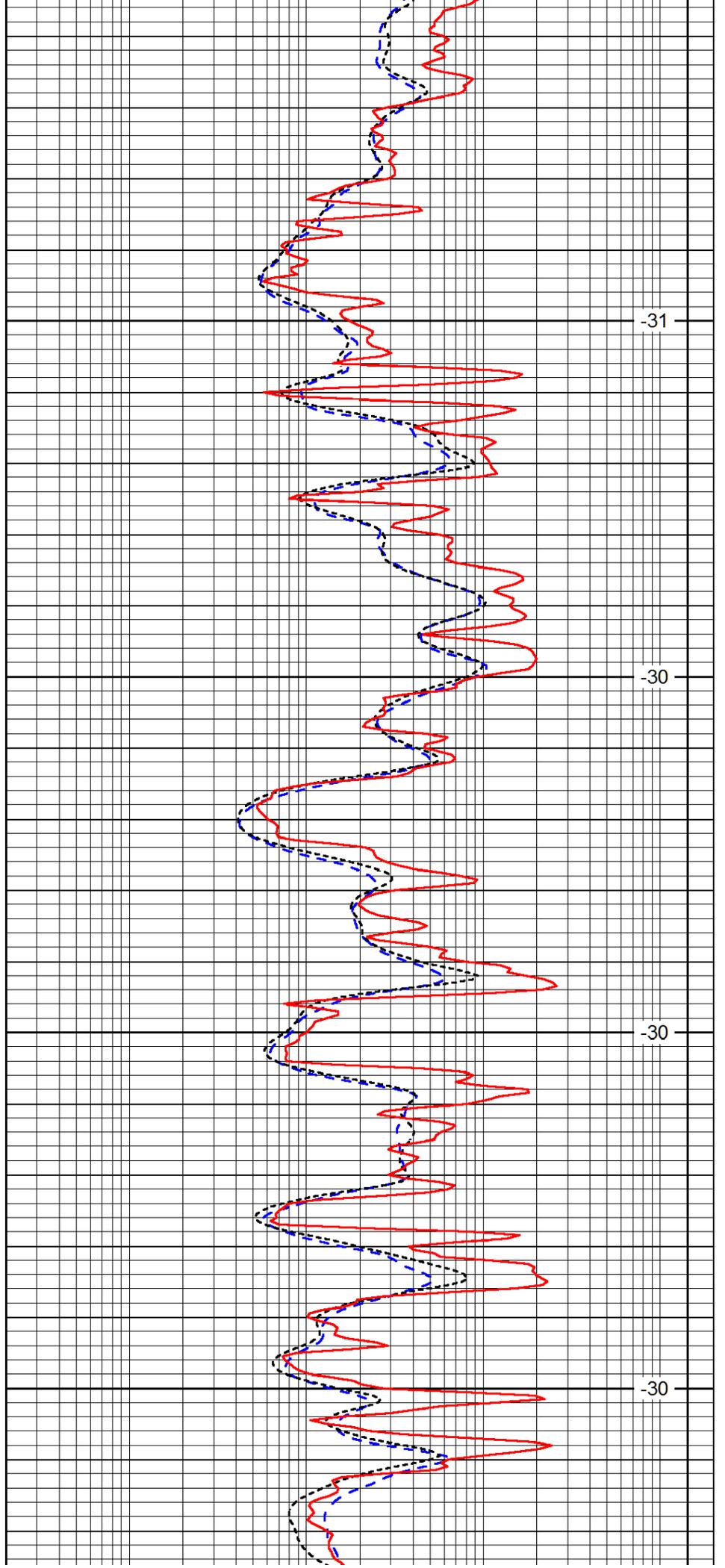


3150

3200

3250

3300

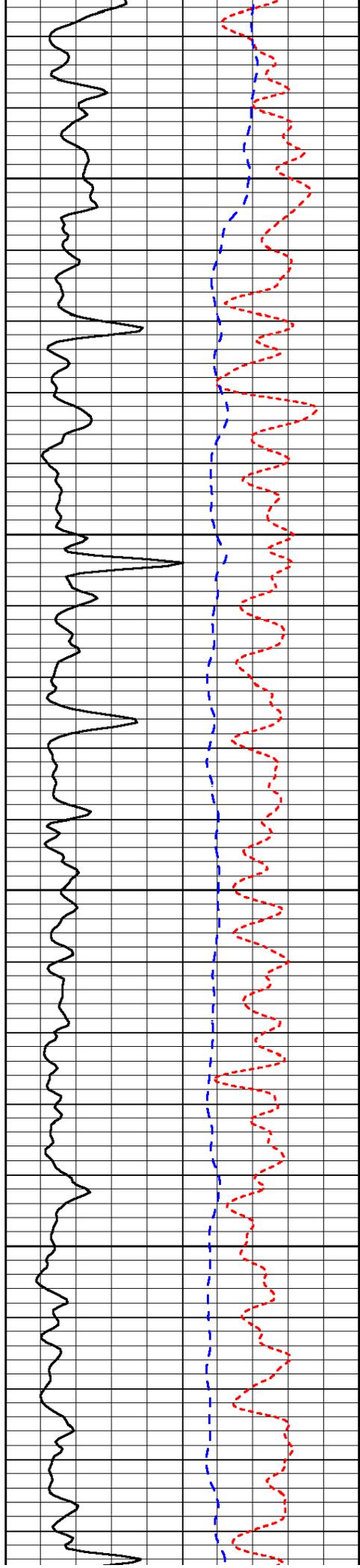


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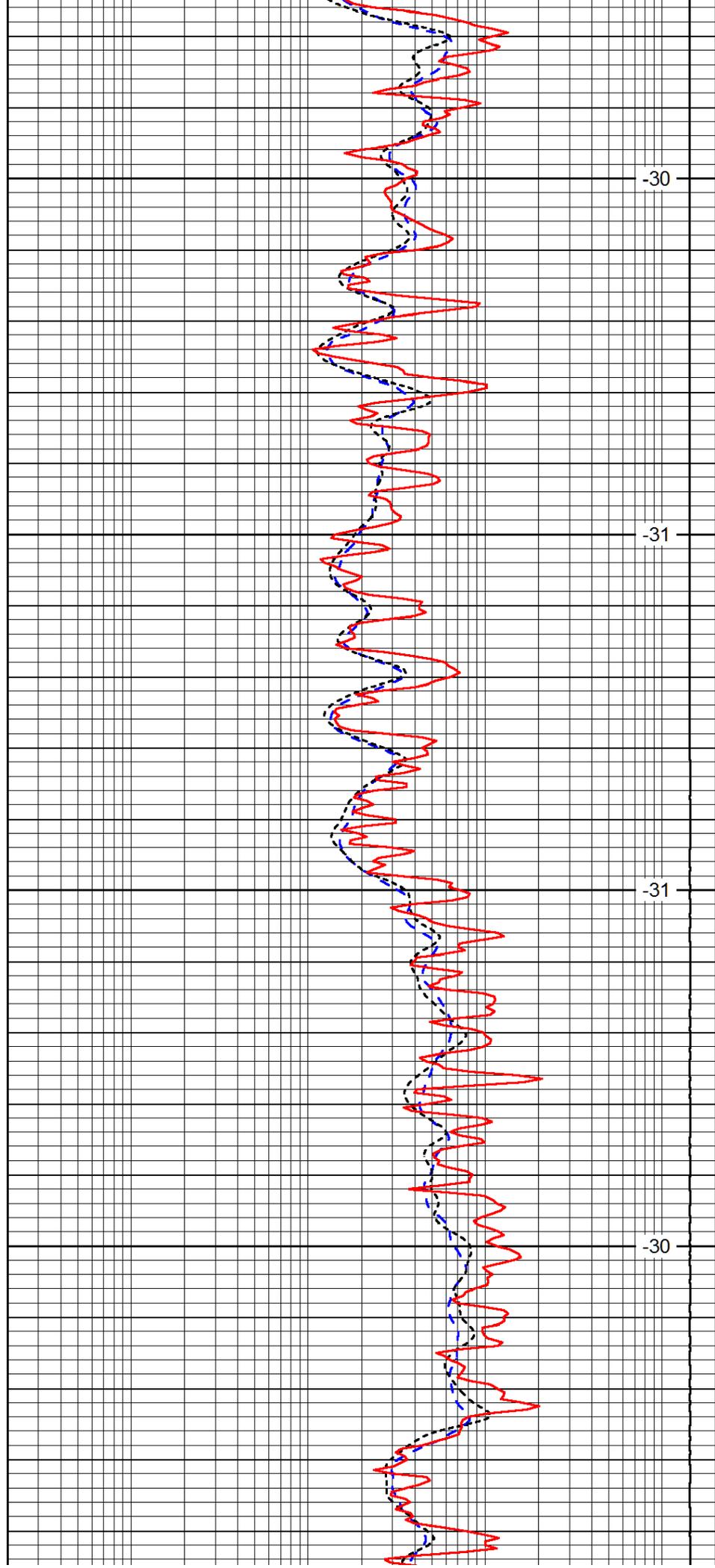


3350

3400

3450

3500

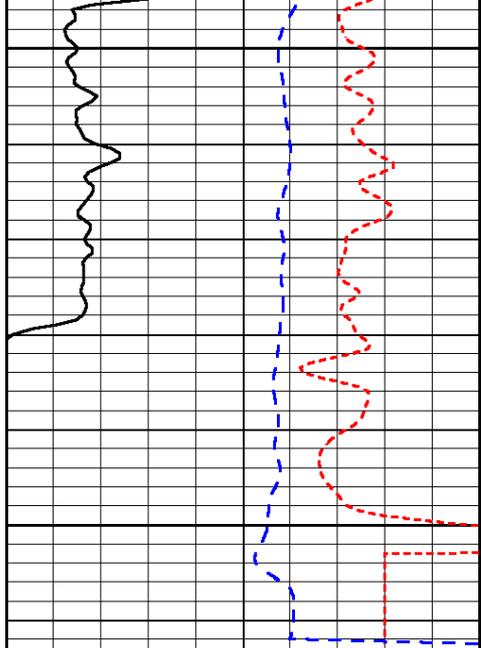


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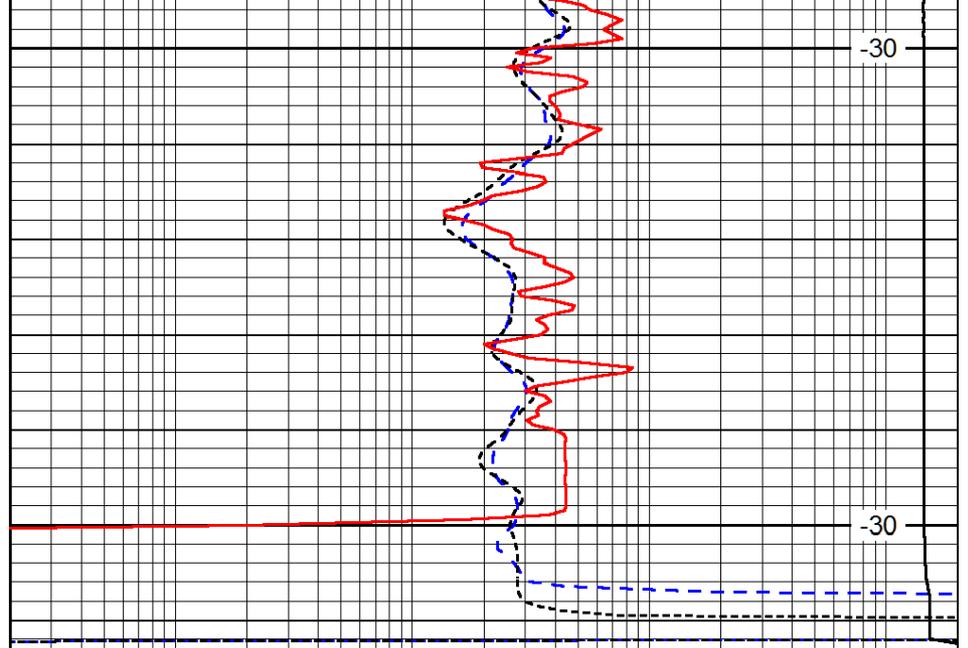
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-160	RXO/RT	40
-200	SP (mV)	0

3550

-30

3600

-30



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)