



Pioneer Energy Services

Dual Induction Log

API No.	15-109-21,161-00-00		
Company	Landmark Resources, Inc.		
Well	LPR No. 1 - 15		
Field	Wildcat		
County	Logan	State	Kansas
Location	2030' FSL & 336' FEL		
Sec: 15	Twp: 15 S	Rge: 33 W	Other Services CNL/CDL

Permanent Datum	Ground Level	Elevation 2883	K.B. 2894
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	D.F. 2883
Drilling Measured From	Kelly Bushing		G.L. 2883
Date	3/15/2013		
Run Number	One		
Depth Driller	4635		
Depth Logger	4637		
Bottom Logged Interval	4636		
Top Log Interval	200		
Casing Driller	8.625 @ 235		
Casing Logger	232		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6000		
Density / Viscosity	9.5	59	
pH / Fluid Loss	9.0	10.4	
Source of Sample	Flowline		
Rm @ Meas. Temp	.60	@ 72	
Rmf @ Meas. Temp	.45	@ 72	
Rmc @ Meas. Temp	.81	@ 72	
Source of Rmf / Rmc	Charts		
Rm @ BHT	.35	@ 122	
Operating Rig Time	4 Hours		
Max Rec. Temp. F	122		
Equipment Number	108		
Location	Hays		
Recorded By	D. Martin		
Witnessed By	Terry McLeod		

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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
 Oakley, KS
 23 S to Gold Rd., 4 W to "T",
 2 S, 1 W, 1/2 S, W Into

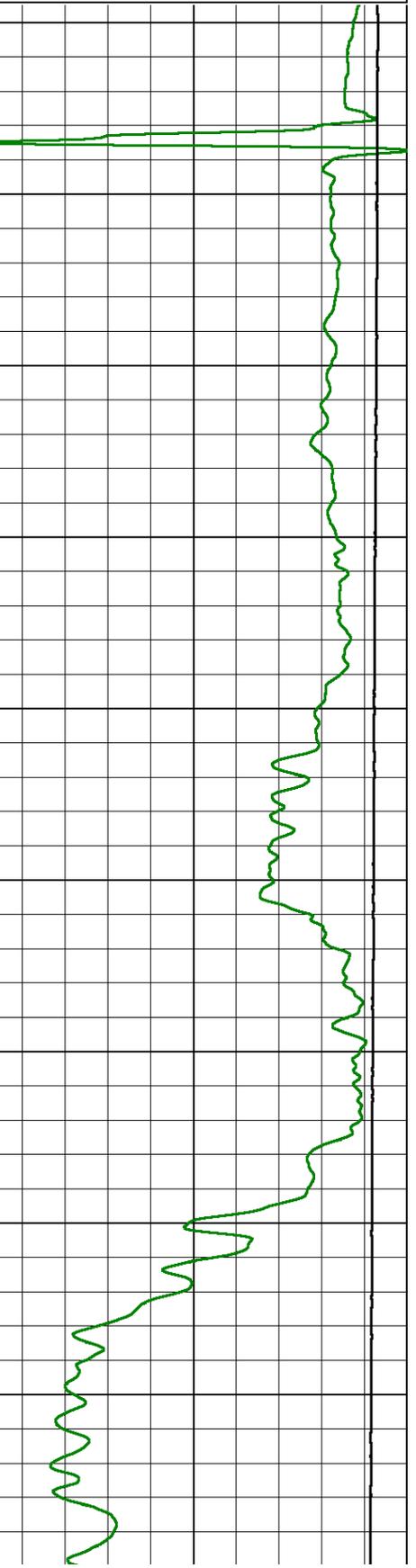
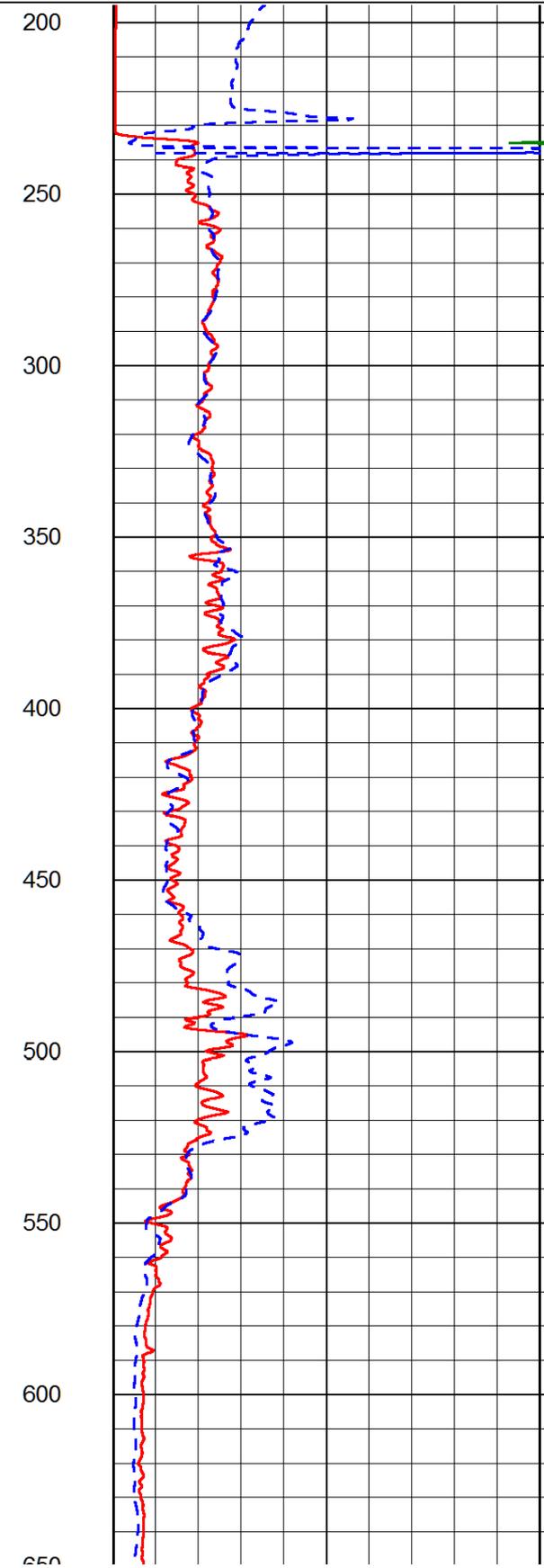
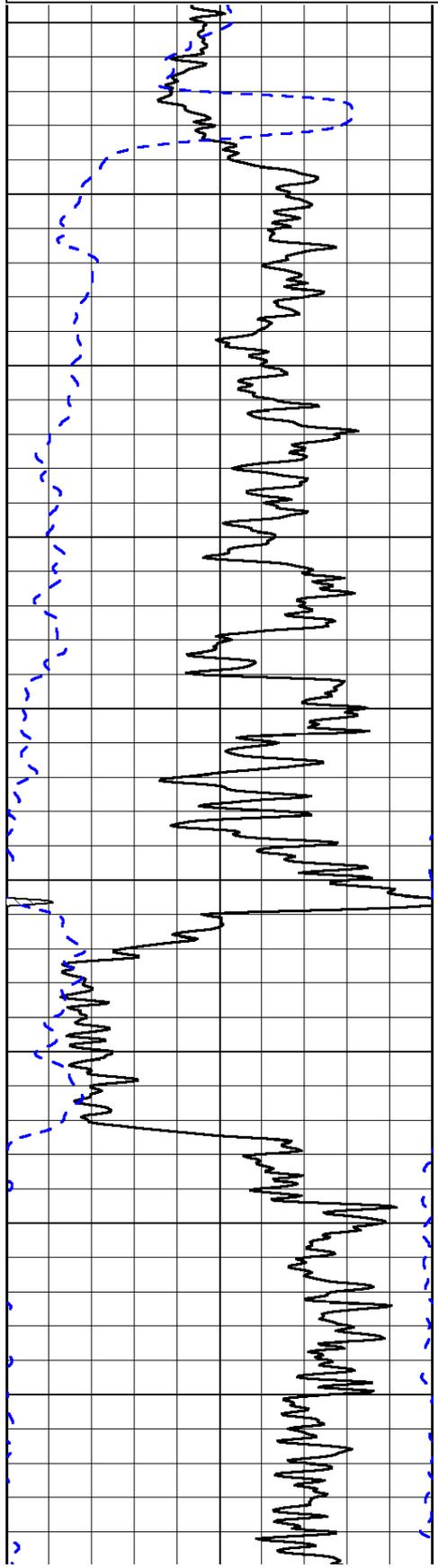
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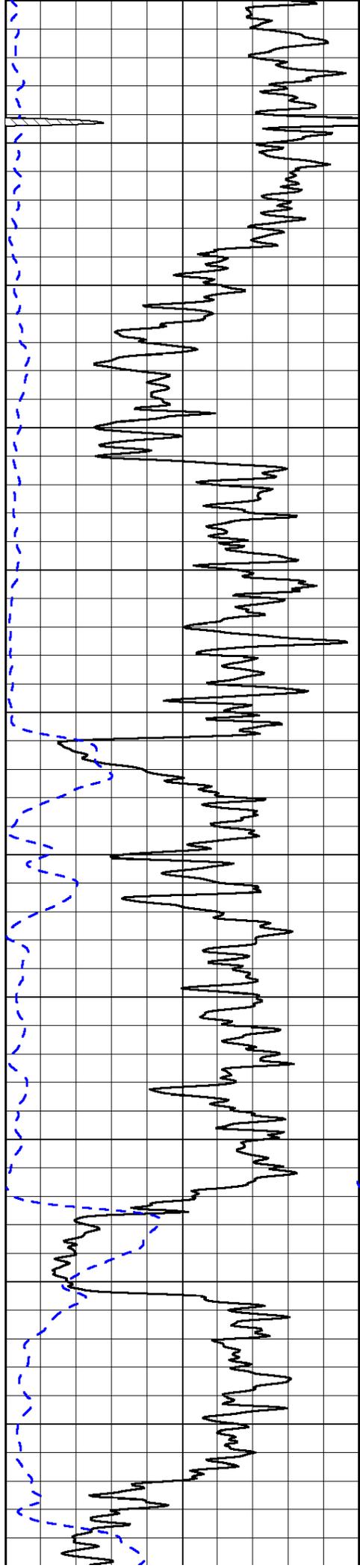
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-200	SP (mV)	0

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

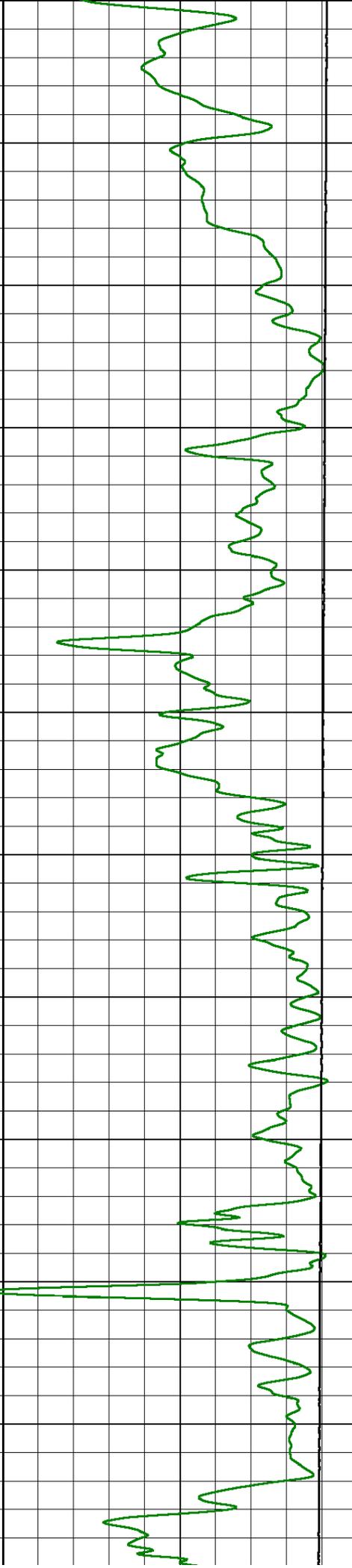
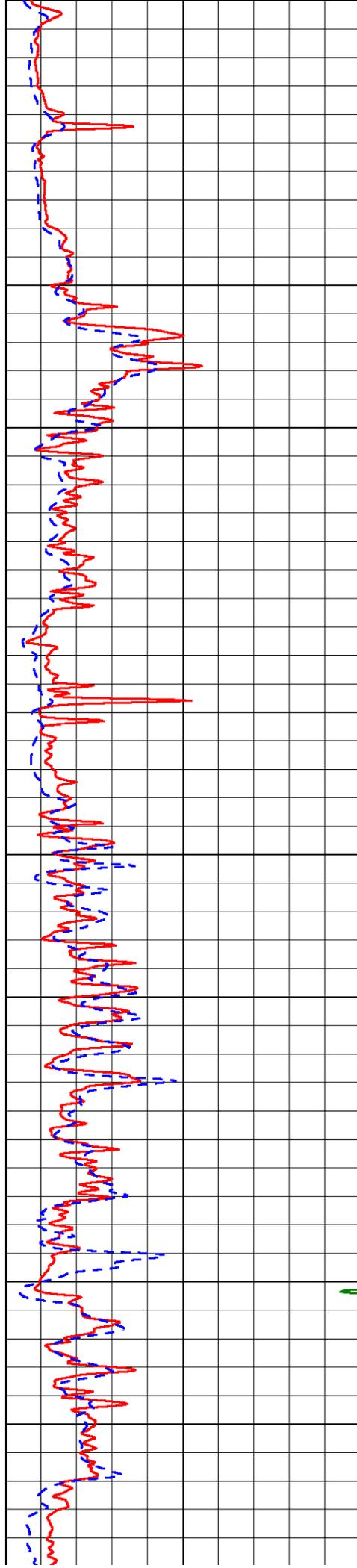
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

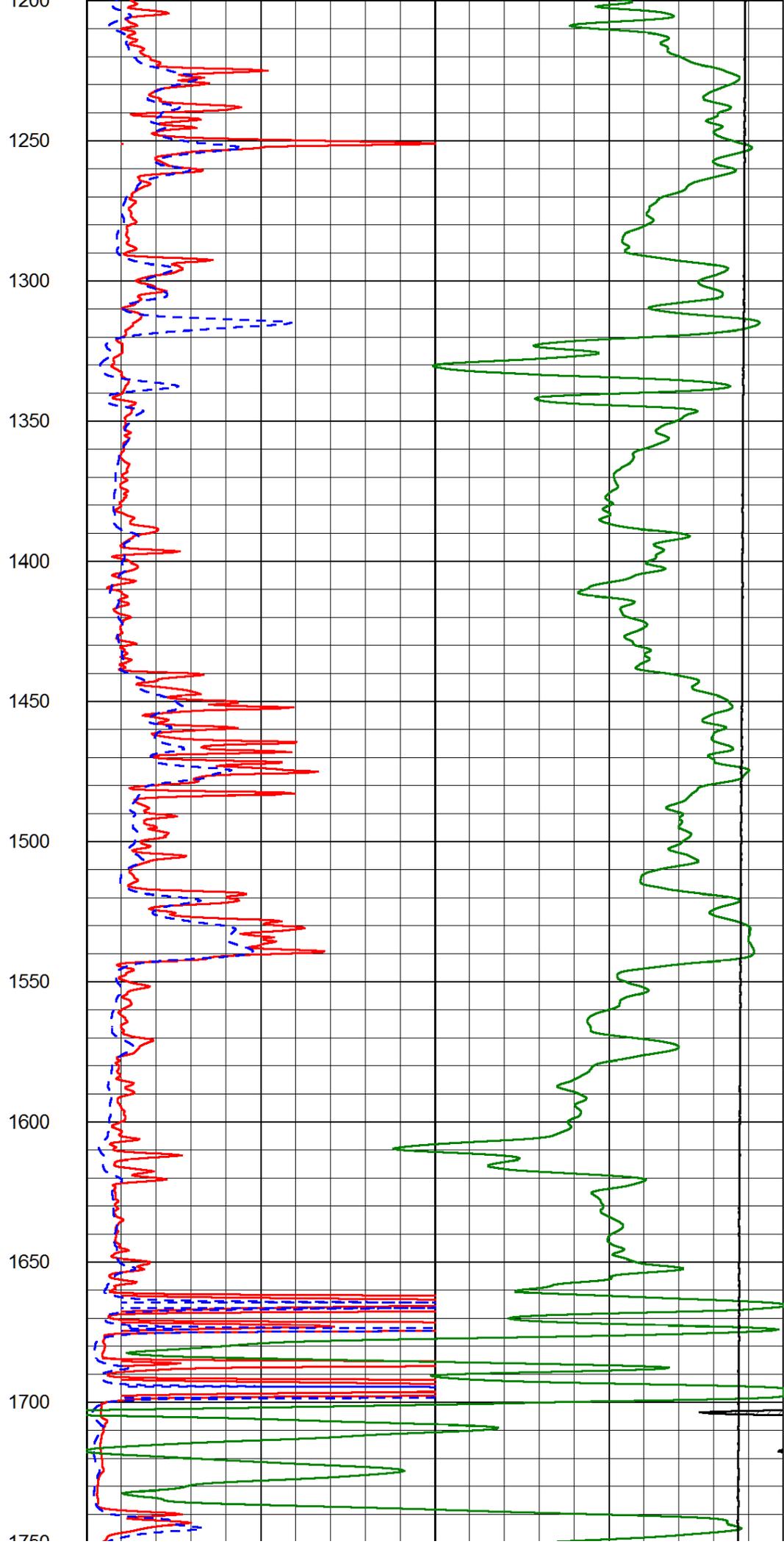
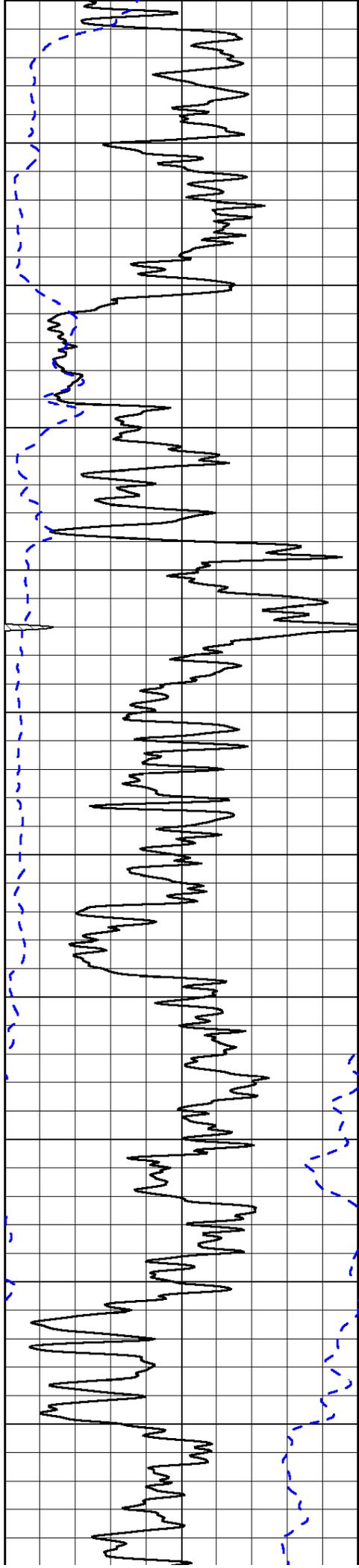
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

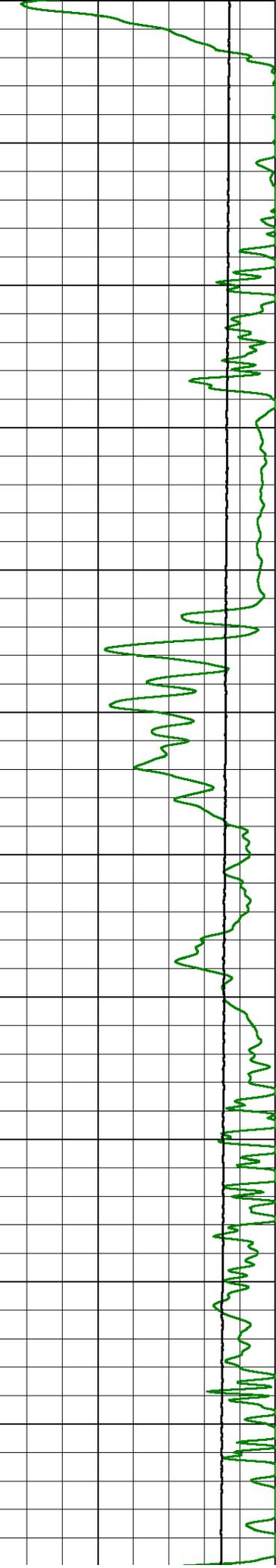
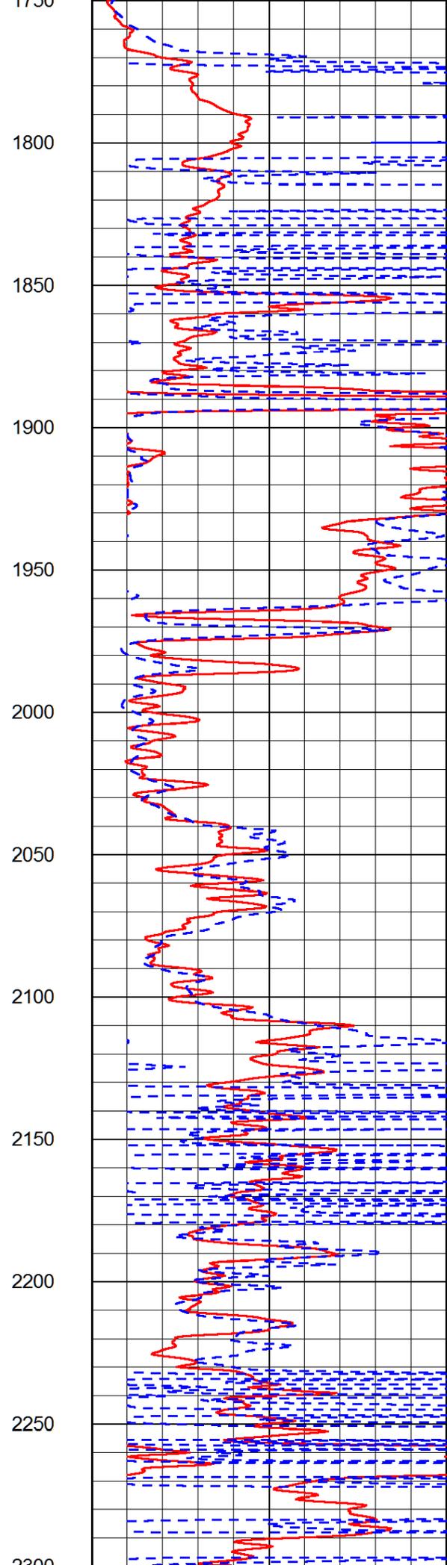
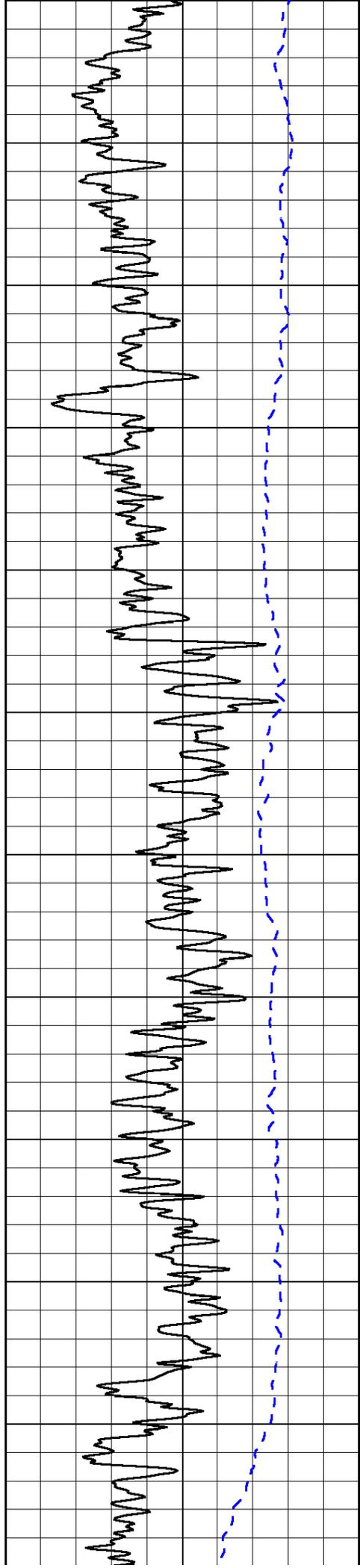


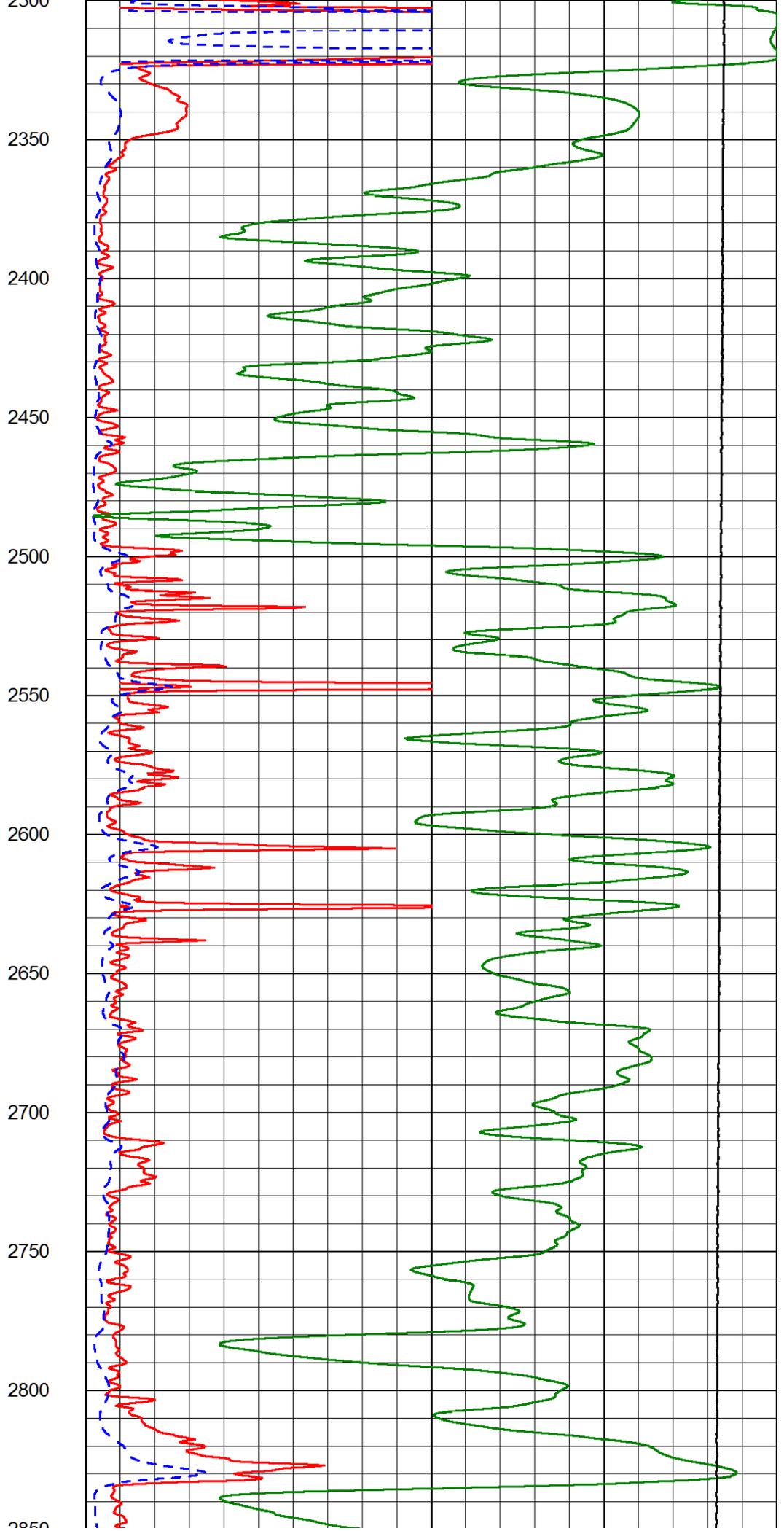
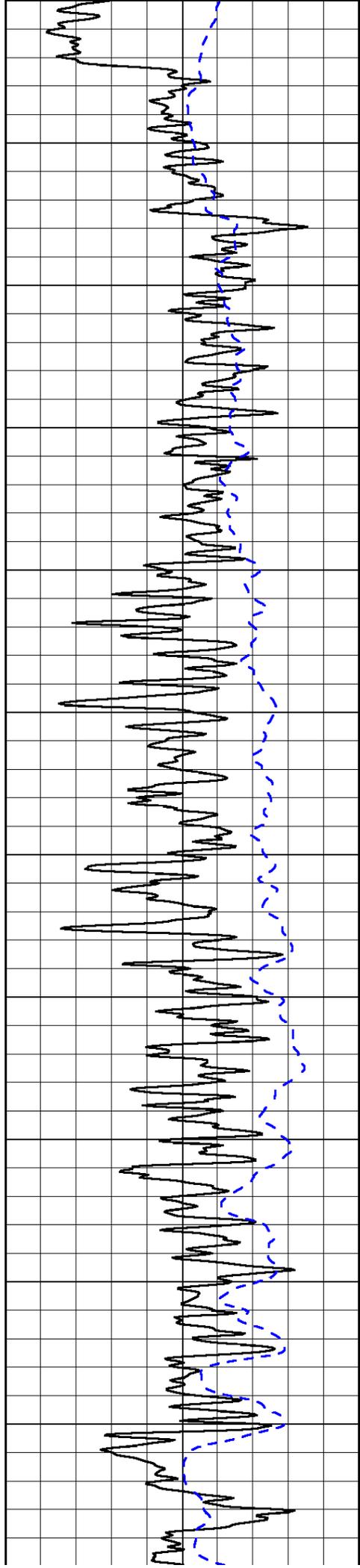


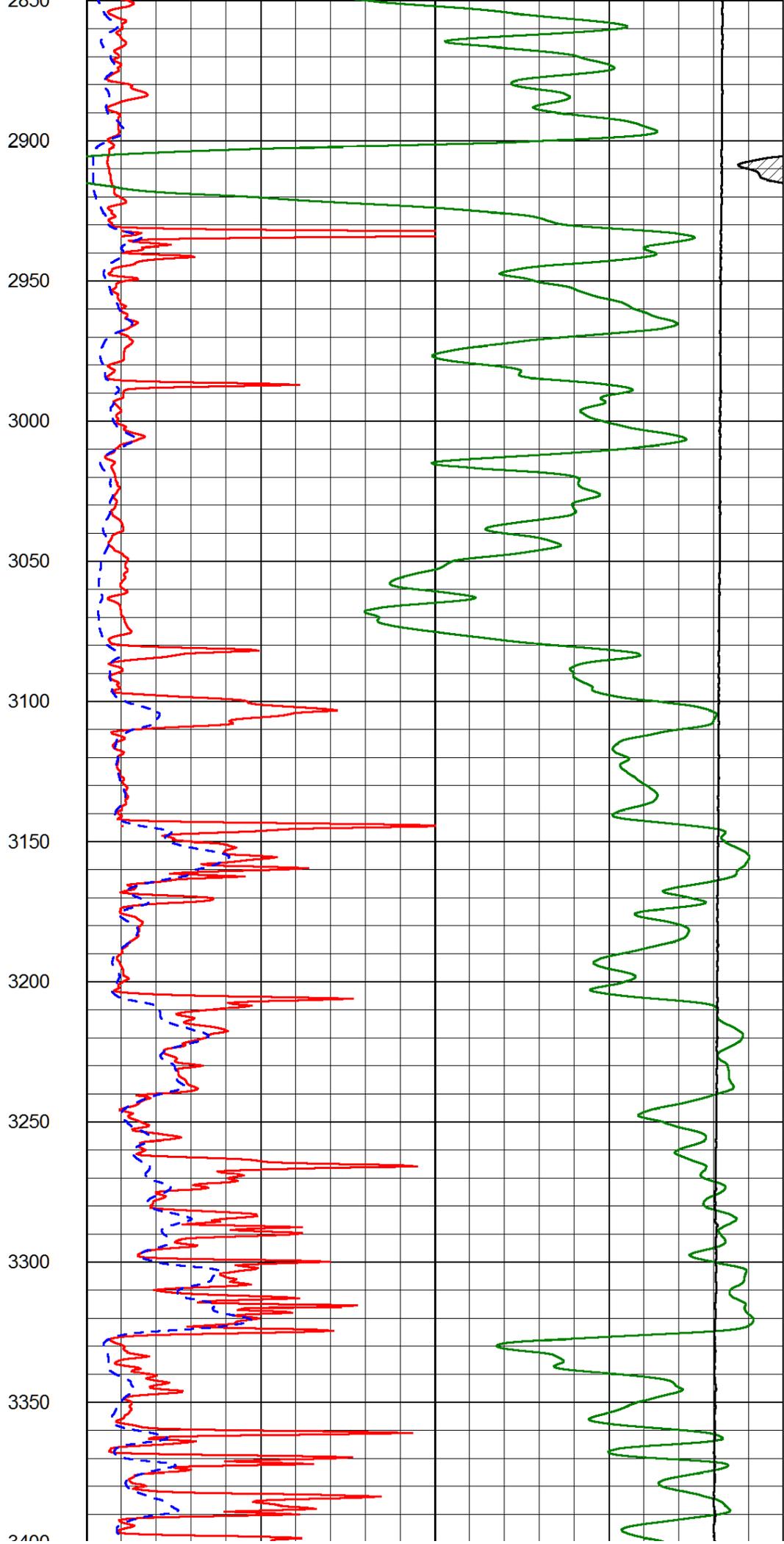
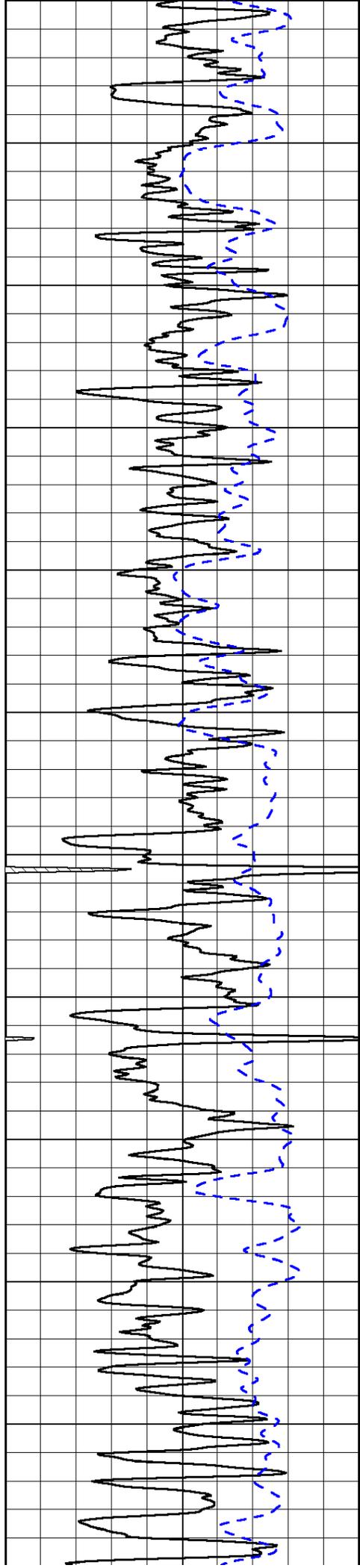
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700
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950
1000
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1150
1200

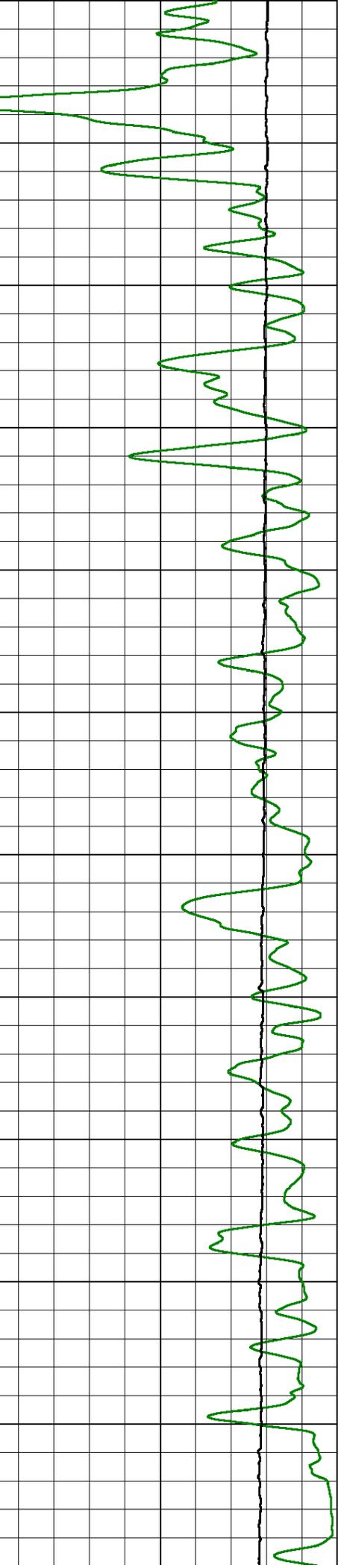
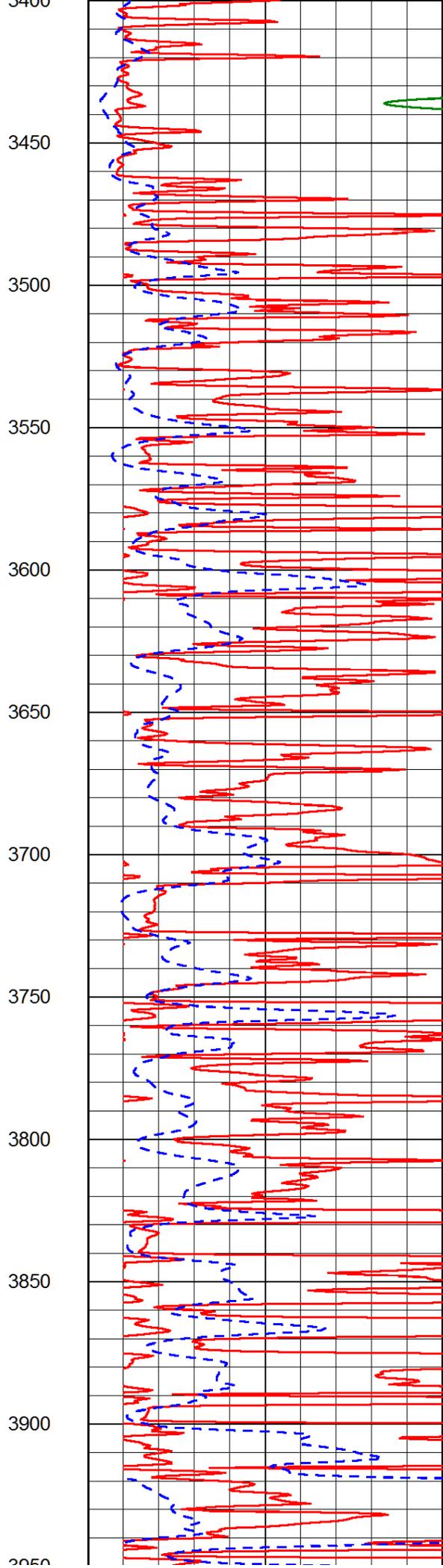
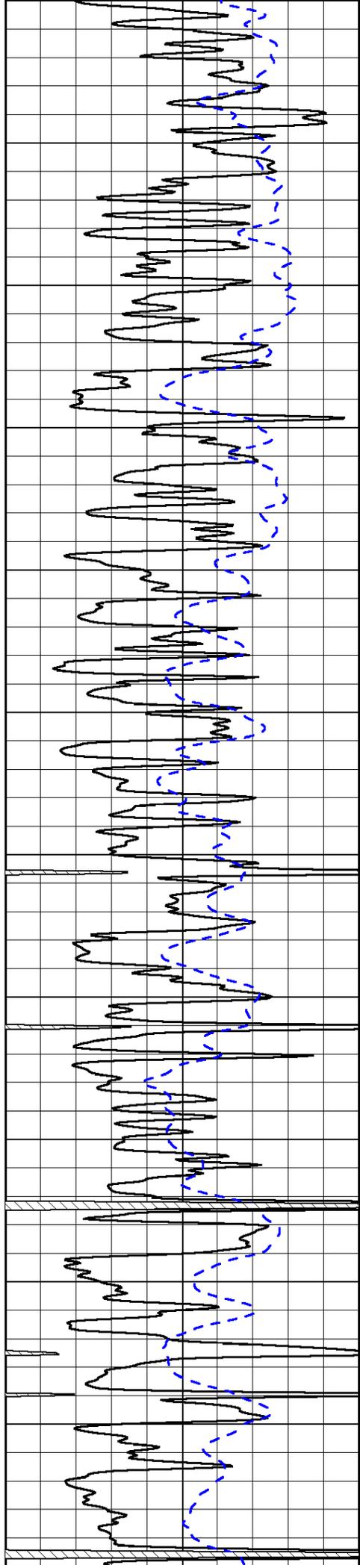


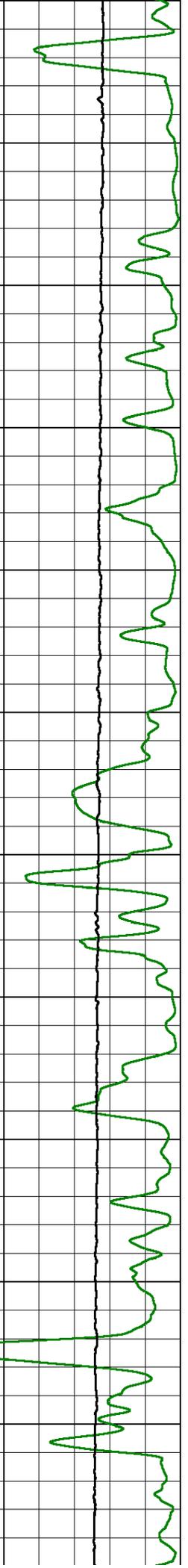
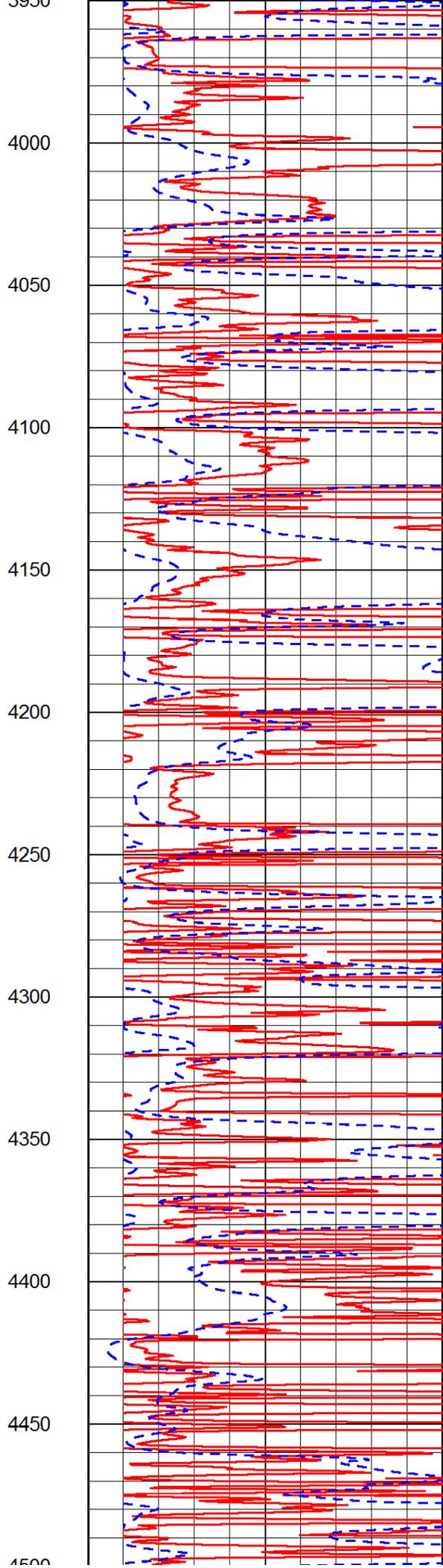
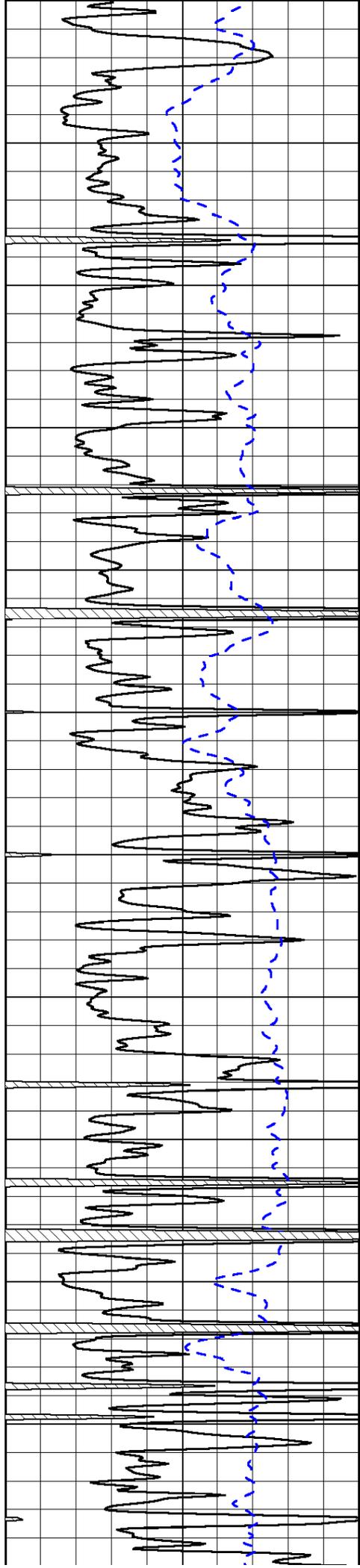


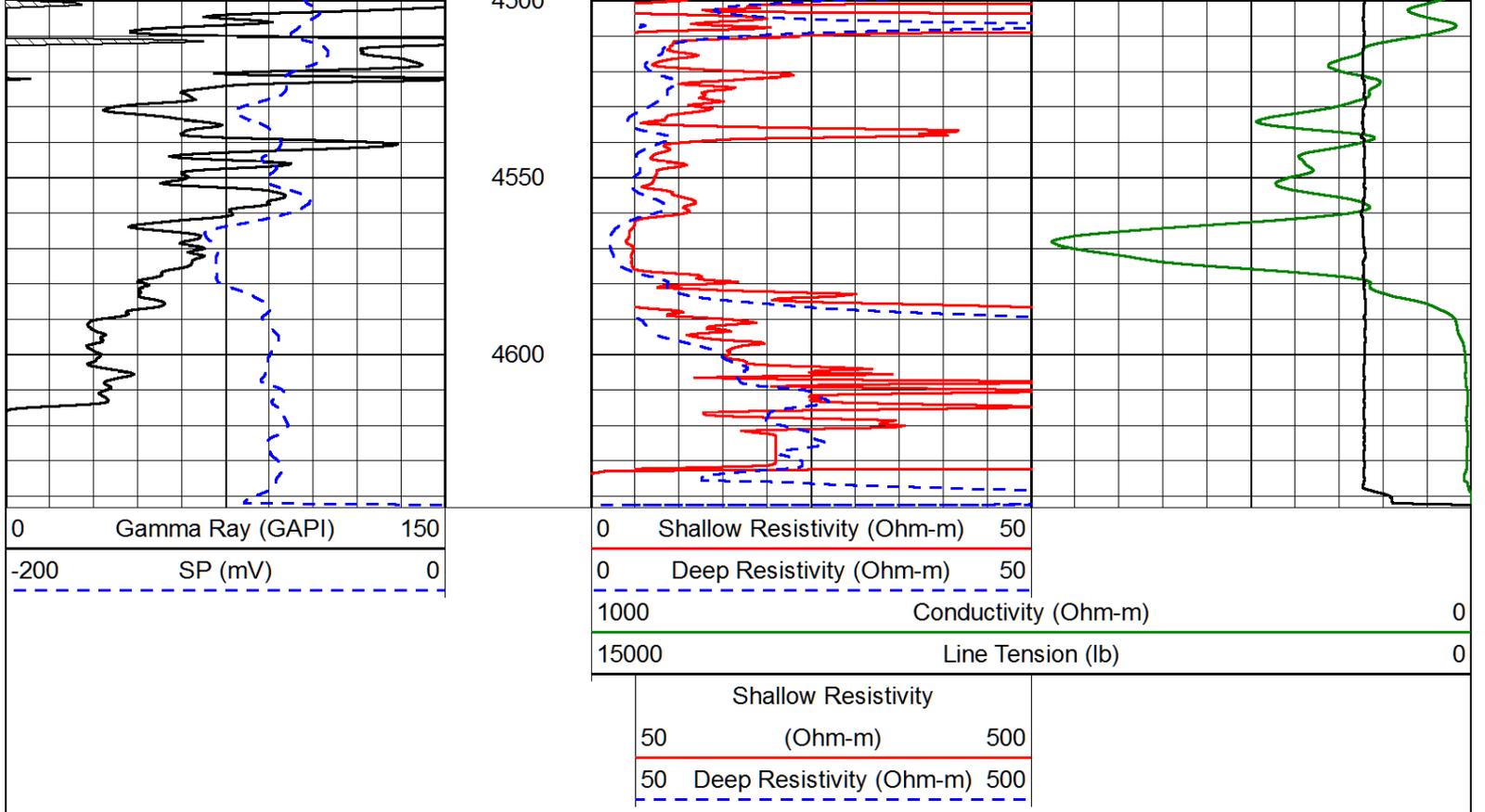




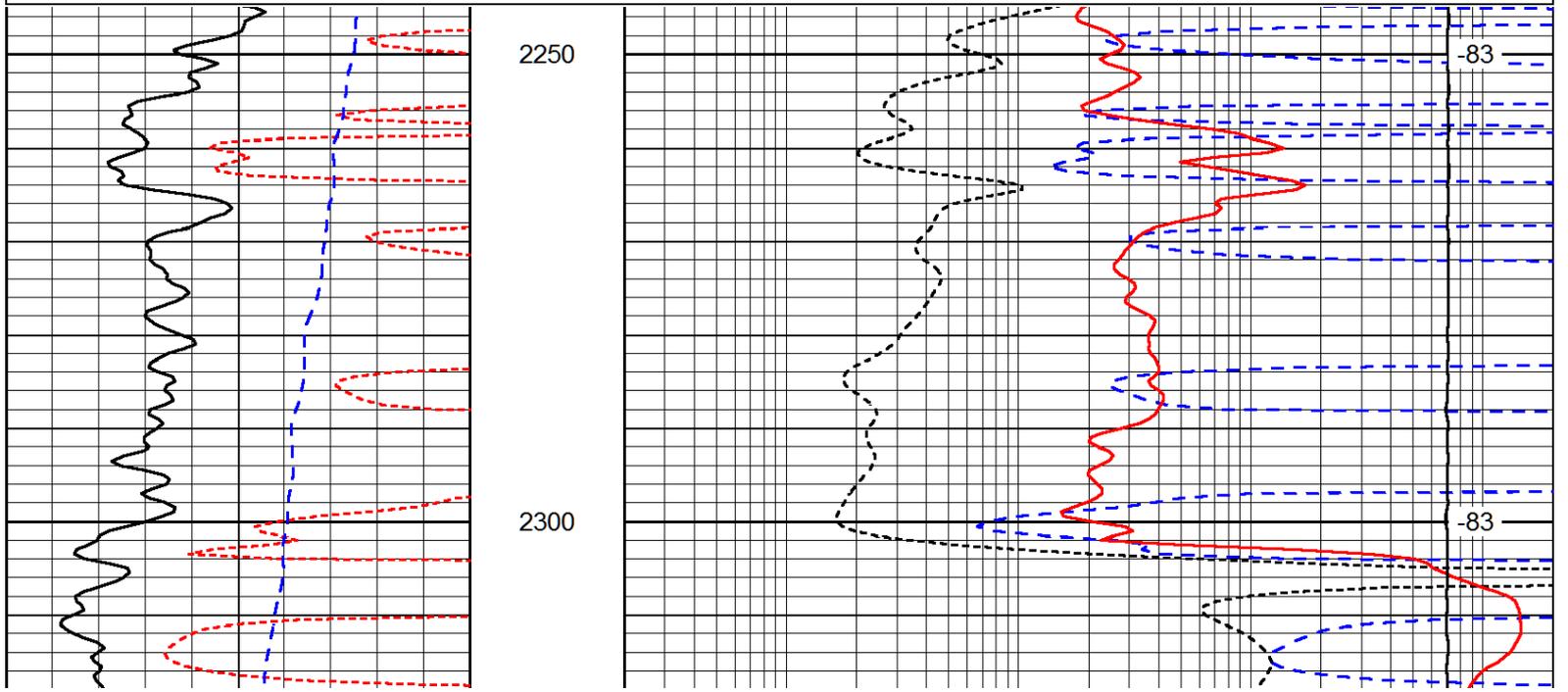
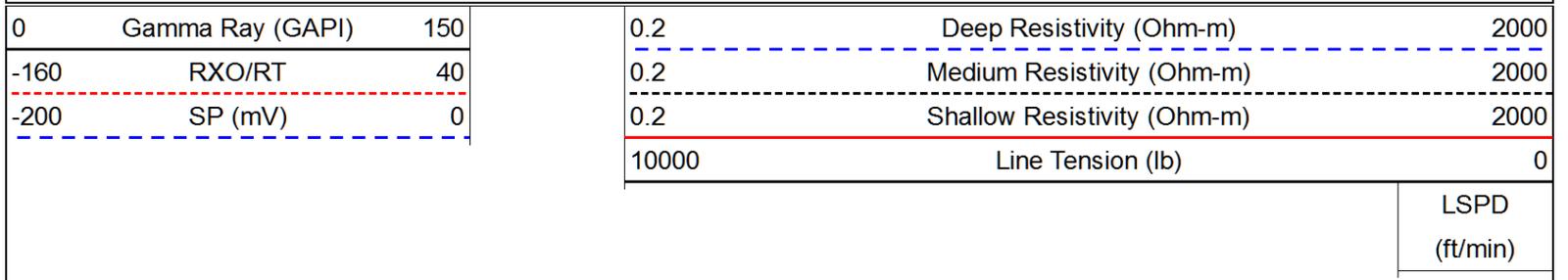


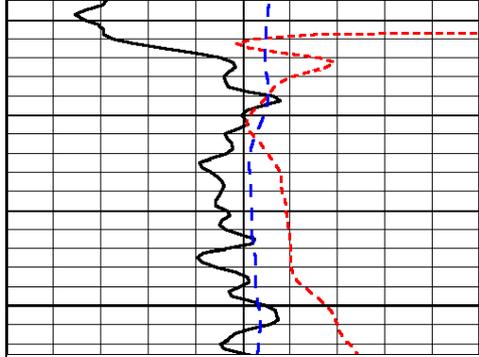






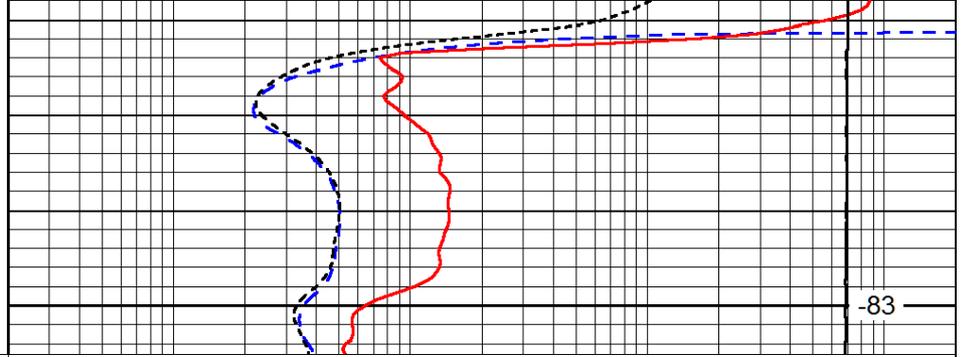
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 Charted by: Depth in Feet scaled 1:240





2350

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



-83

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

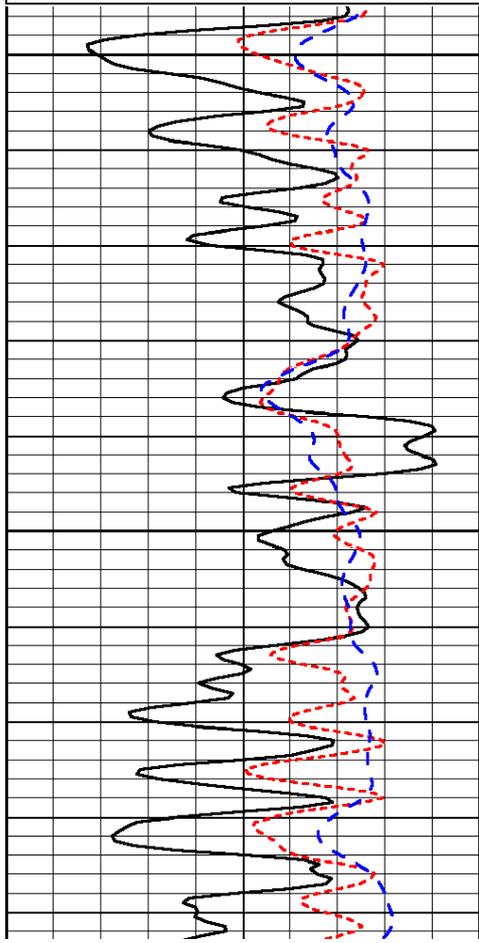
LSPD
(ft/min)

Database File: landmark_lpr_1-15hd.db
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-160	RXO/RT	40
-200	SP (mV)	0

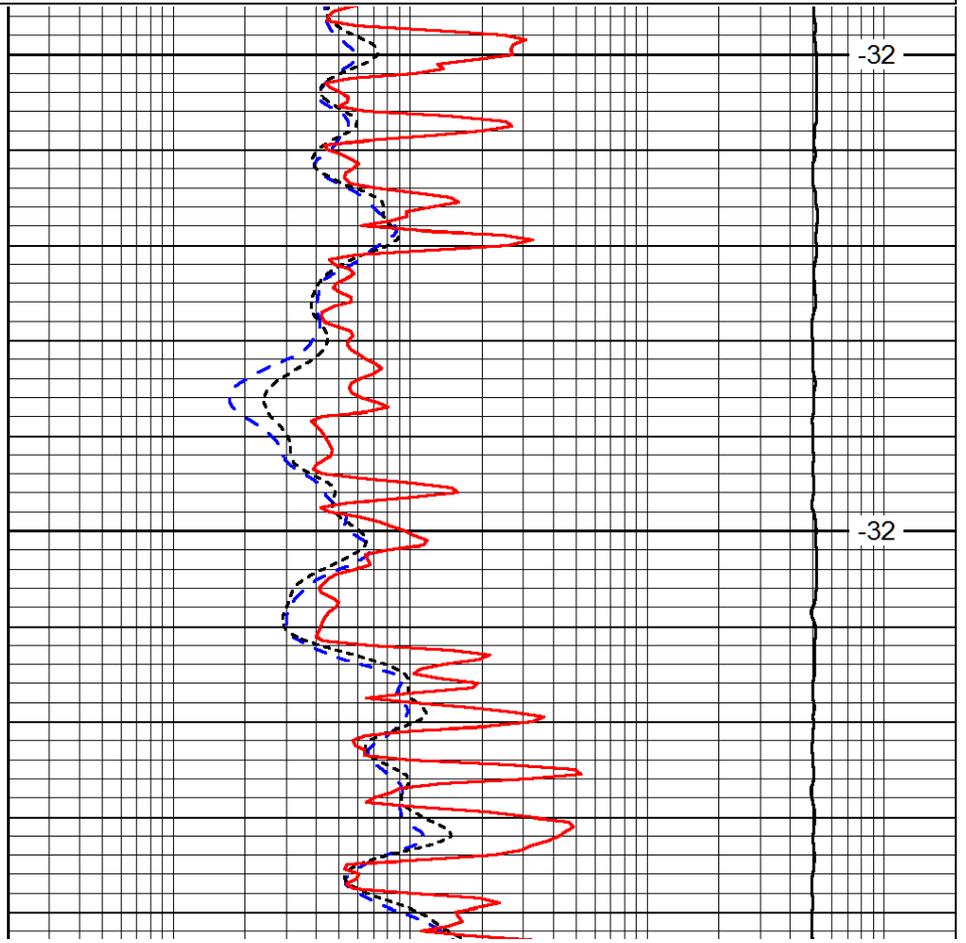
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0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)



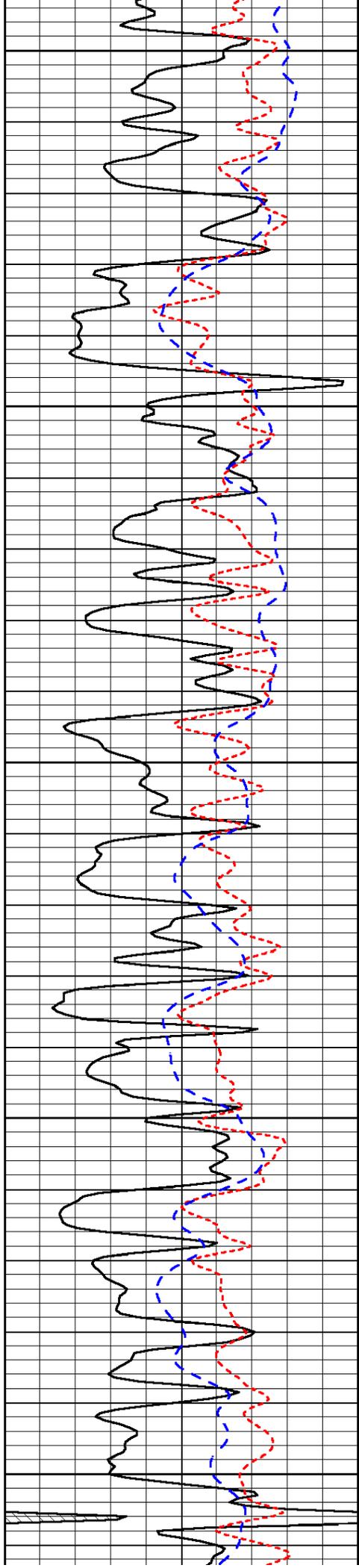
3400

3450



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-32



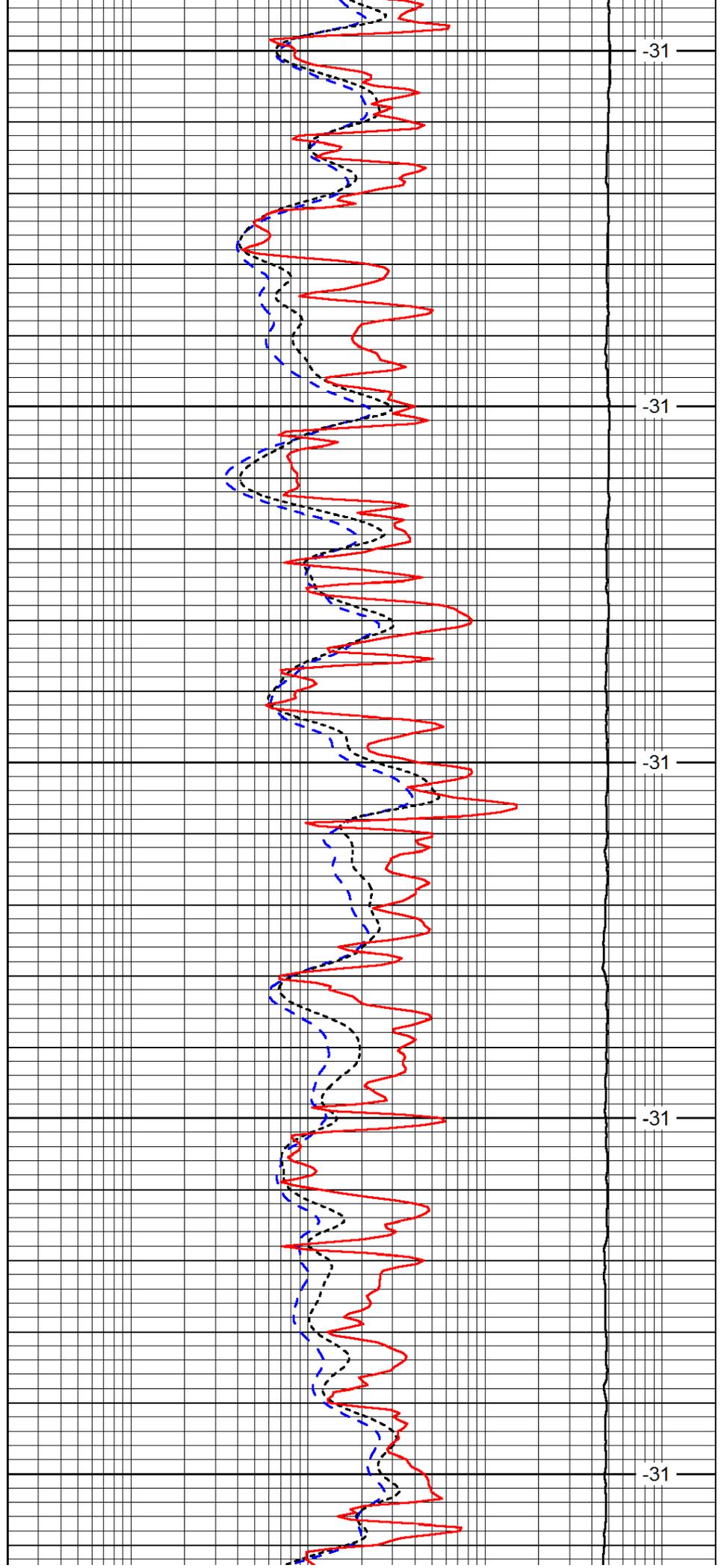
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3550

3600

3650

3700



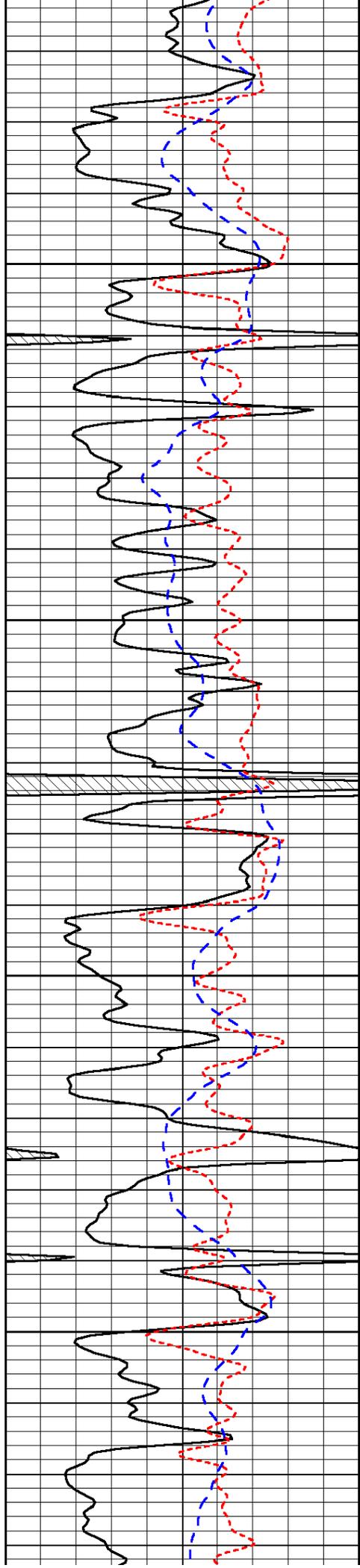
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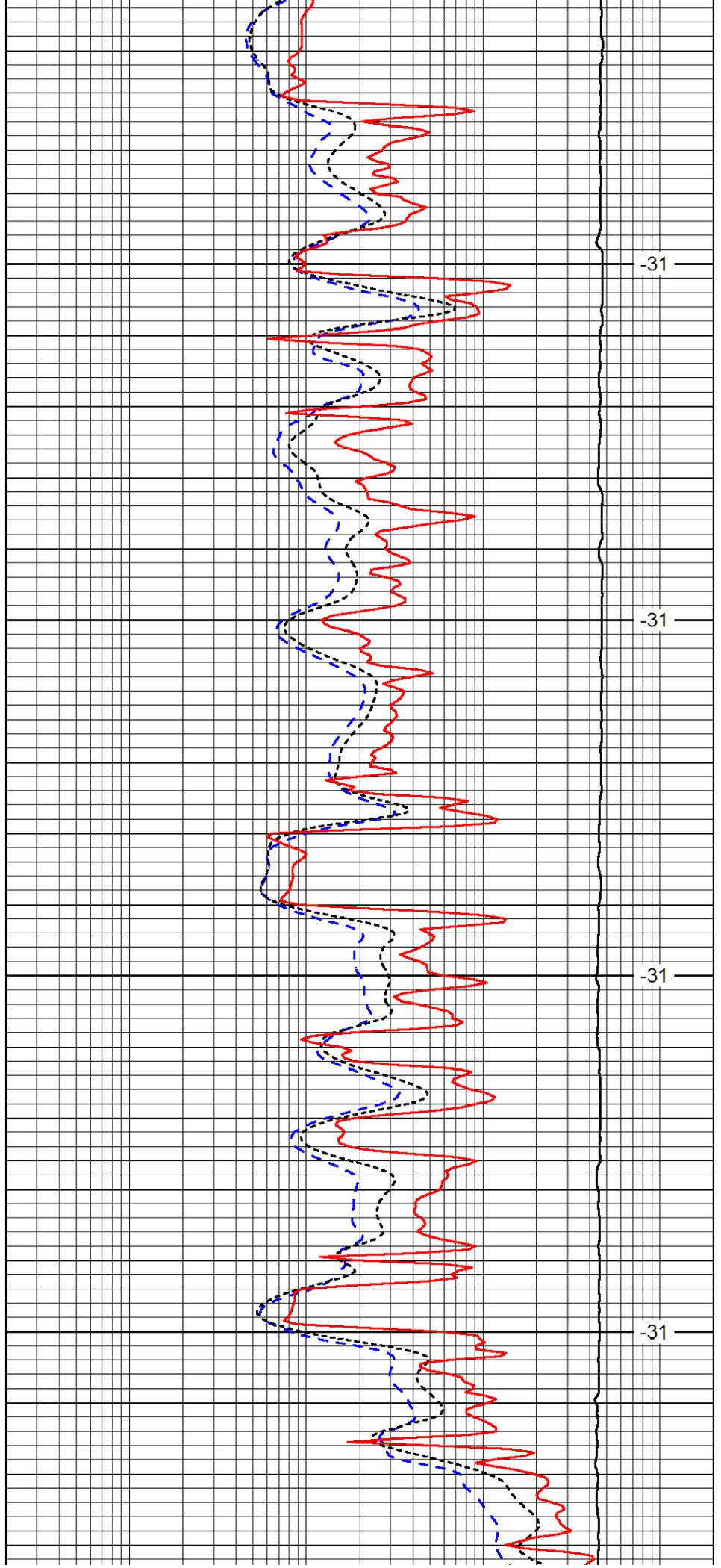


3750

3800

3850

3900

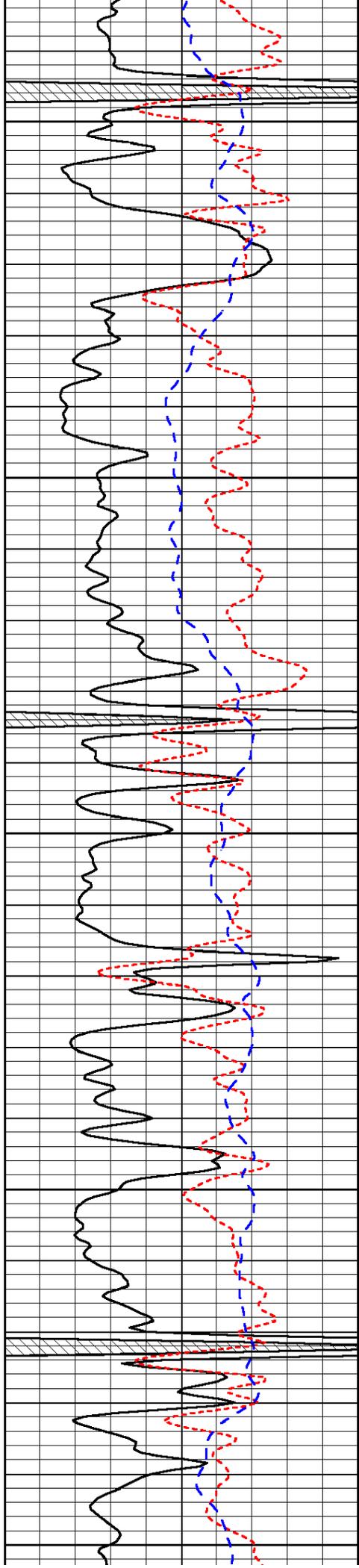


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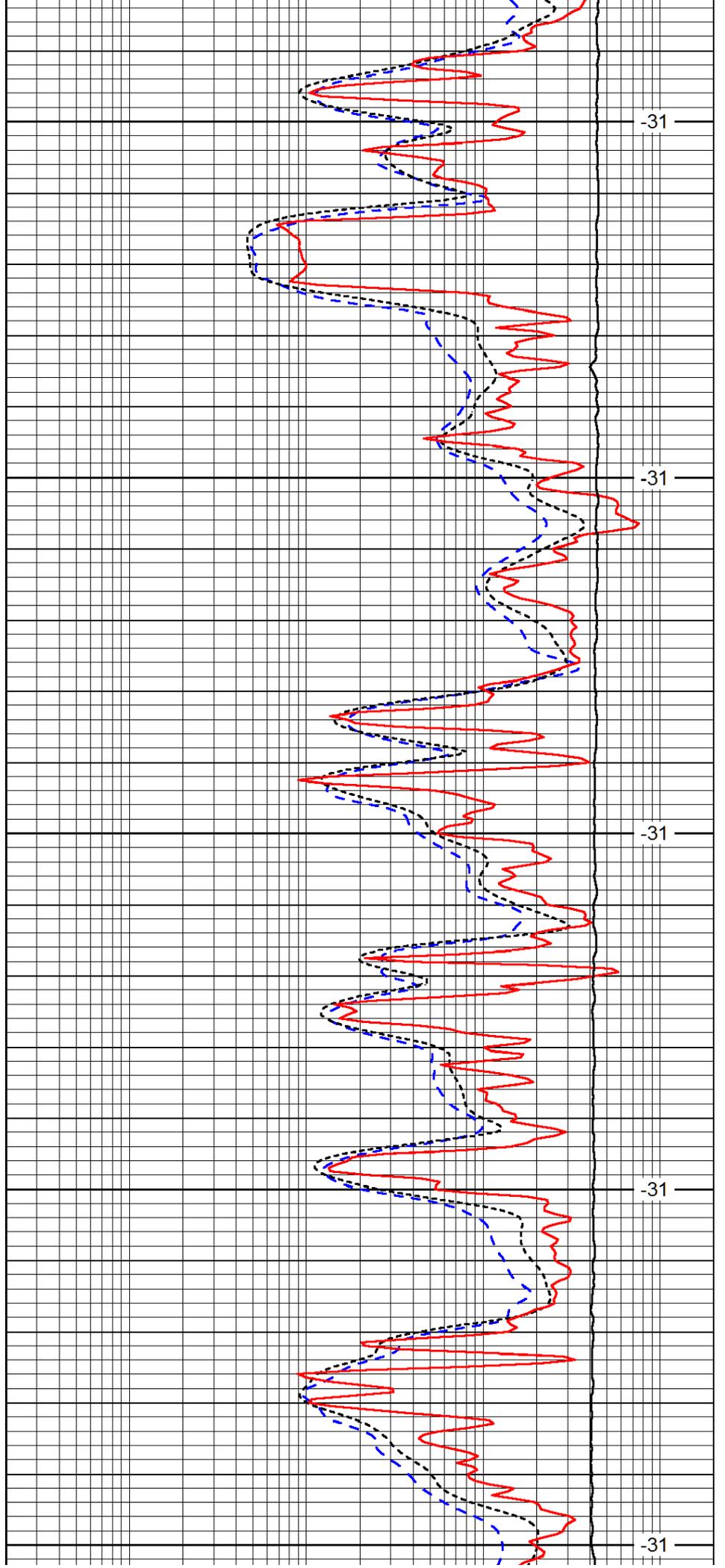
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4000

4050

4100

4150



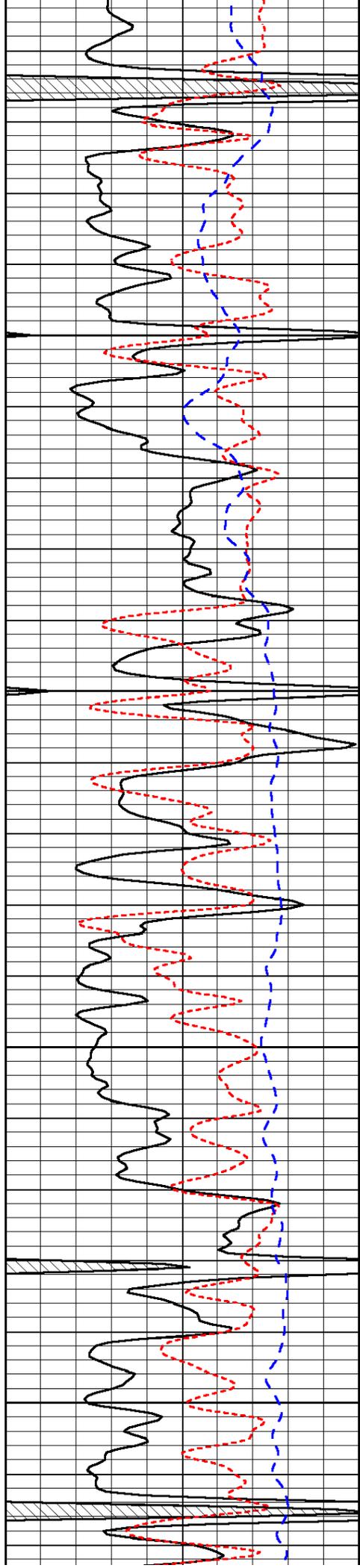
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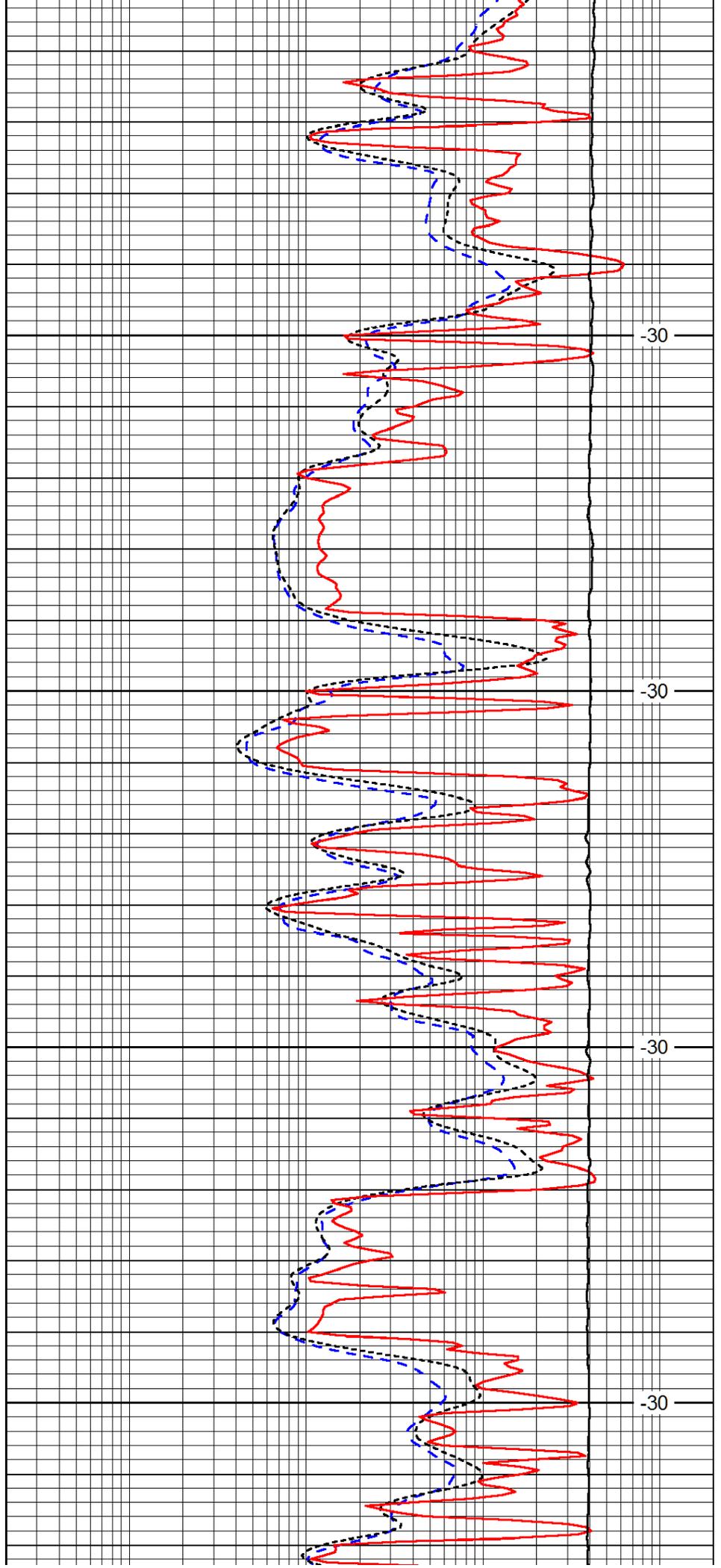


4200

4250

4300

4350

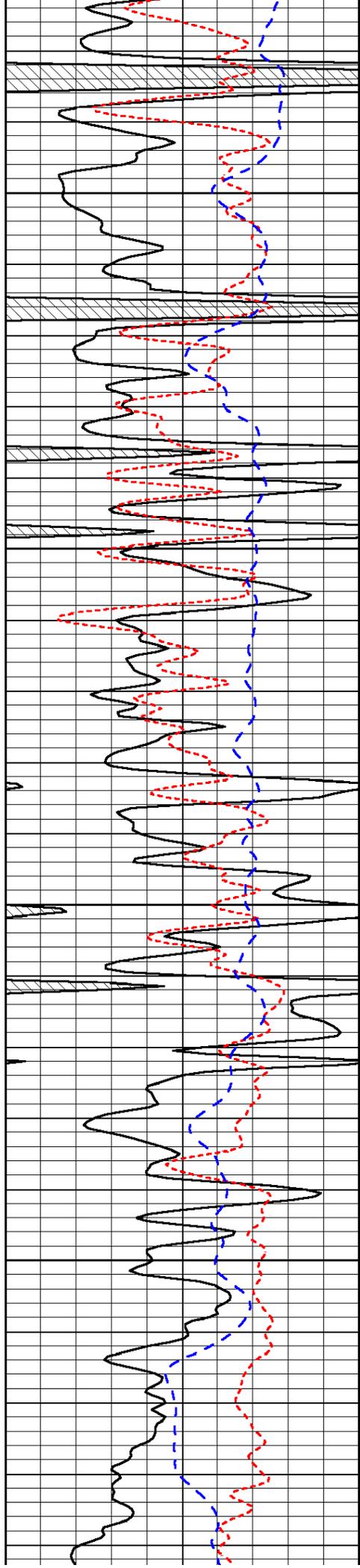


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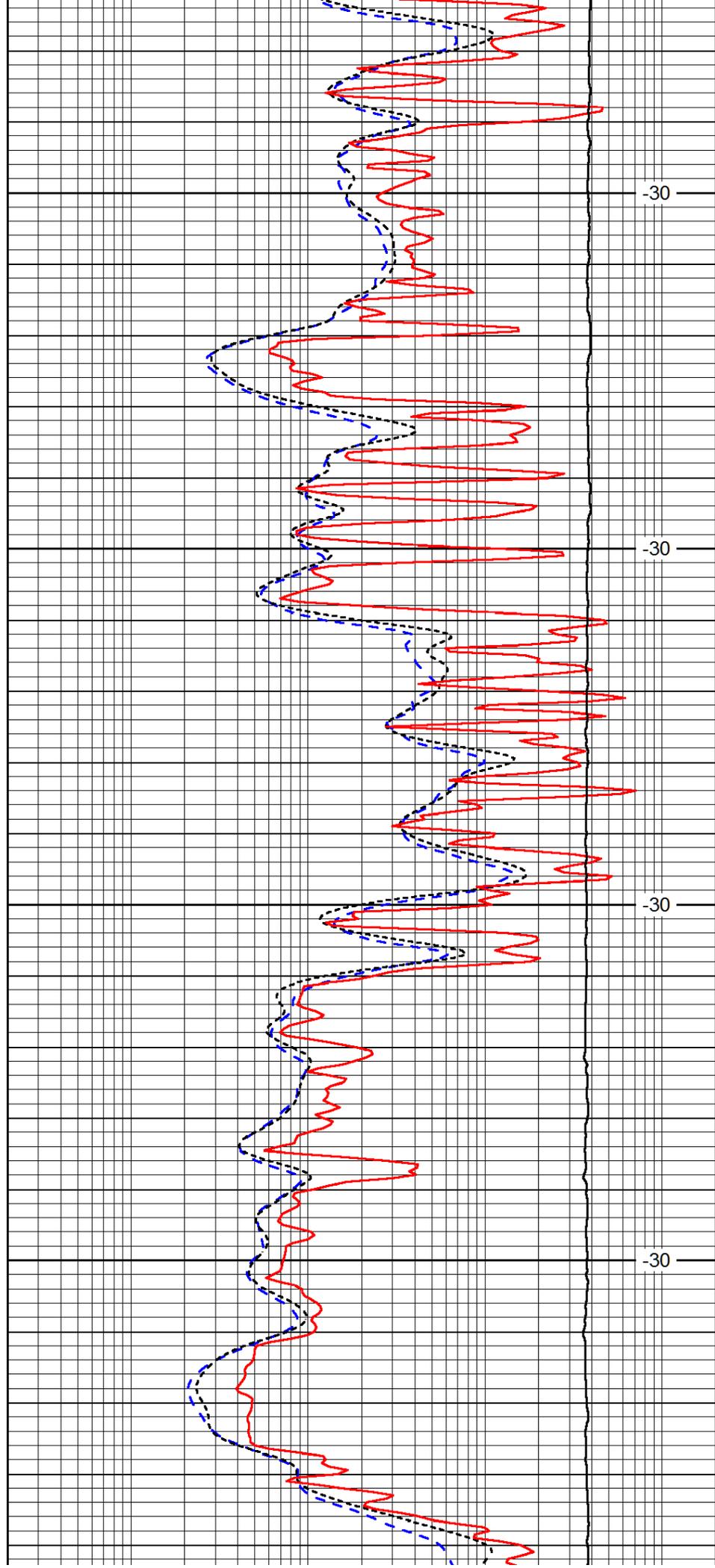


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4450

4500

4550

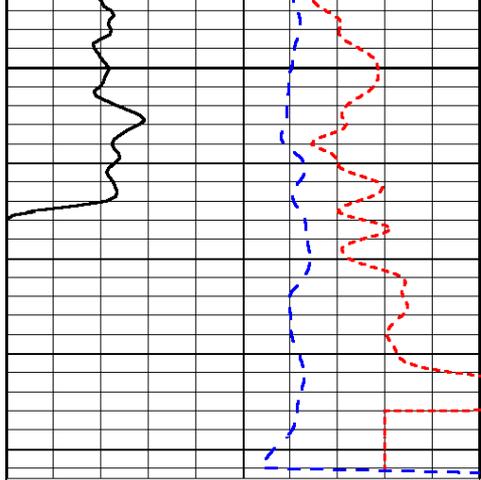


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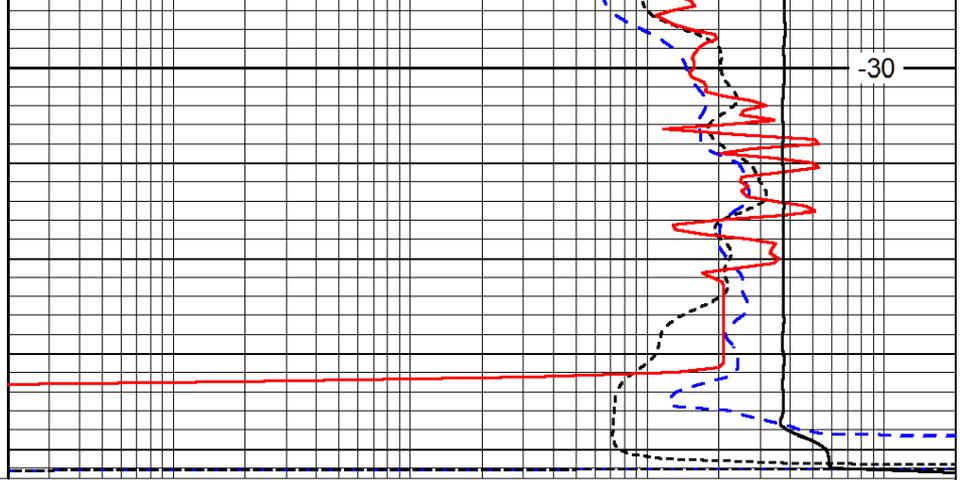
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-30

-30



4600



-30

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)