



Pioneer Energy Services

Dual Induction Log

15-065-23,971-00-00

API No.	Company H&C Oil Operating, Inc.		Other Services CNL/CDL MEL
	Well Faulkner No. 14-2		
	Field Railroad Southeast		Elevation K.B. 2124 D.F. 2117 G.L. 2117
	County Graham	State Kansas	
	Location E2-NW-SE-SW 990' FSL & 1800' FWL		
	Sec: 14	Twp: 8S	Rge: 22W
Permanent Datum	Ground Level	Elevation 2117	
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		

Date	9/15/13	
Run Number	One	
Depth Driller	3623	
Depth Logger	3621	
Bottom Logged Interval	3620	
Top Log Interval	200	
Casing Driller	8.625 @ 223	
Casing Logger	222	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	1,800	
Density / Viscosity	9.2 62	
pH / Fluid Loss	10.0 6.2	
Source of Sample	Flowline	
Rm @ Meas. Temp	.60 @ 78	
Rmf @ Meas. Temp	.45 @ 78	
Rmc @ Meas. Temp	.81 @ 78	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.42 @ 112	
Operating Rig Time	3 1/2 Hours	
Max Rec. Temp. F	112	
Equipment Number	108	
Location	Hays	
Recorded By	J. Henrickson	
Witnessed By	Marc Downing	

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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

 Bogue Kansas
 South Edge of Town, 3 1/2 West, South Into

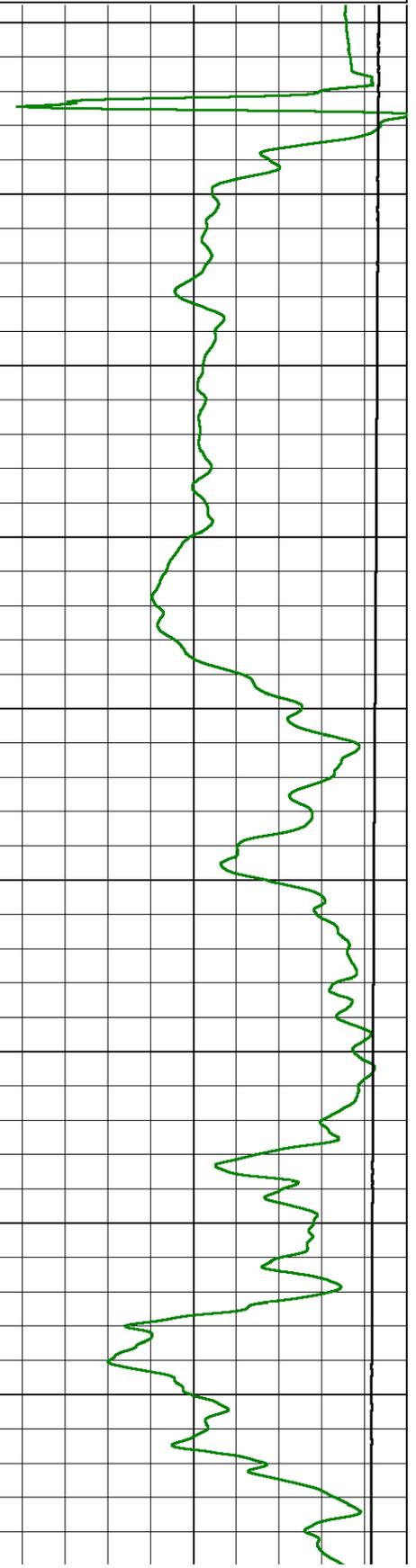
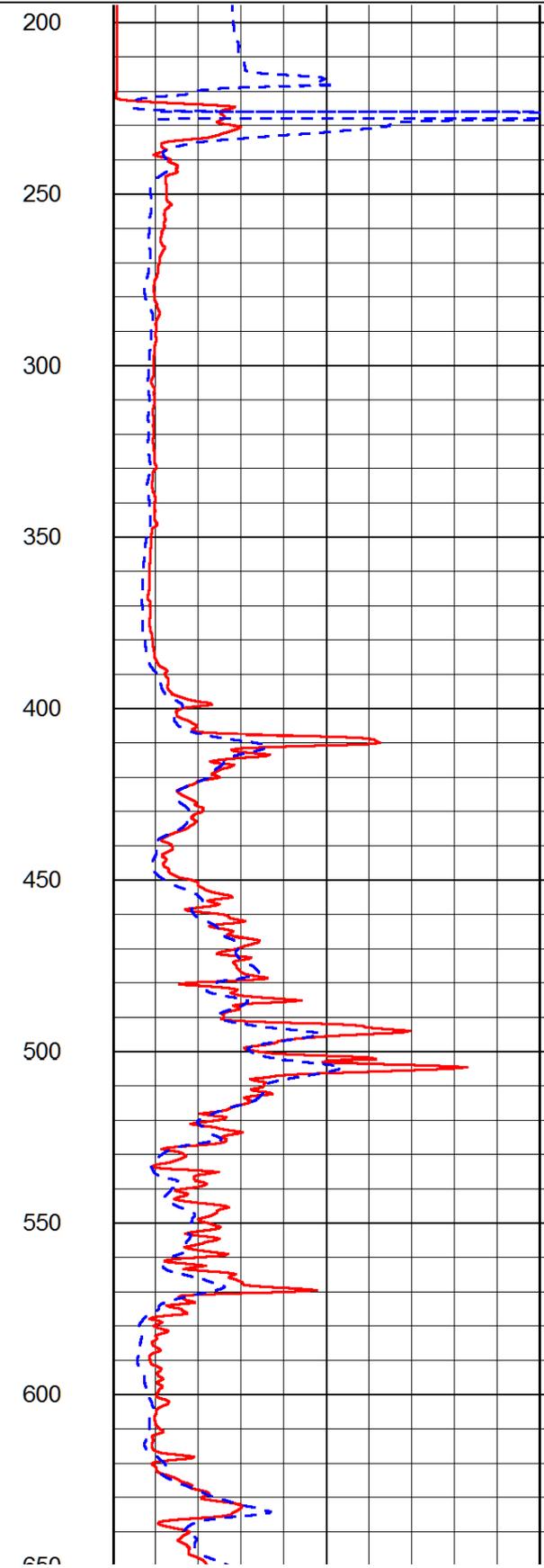
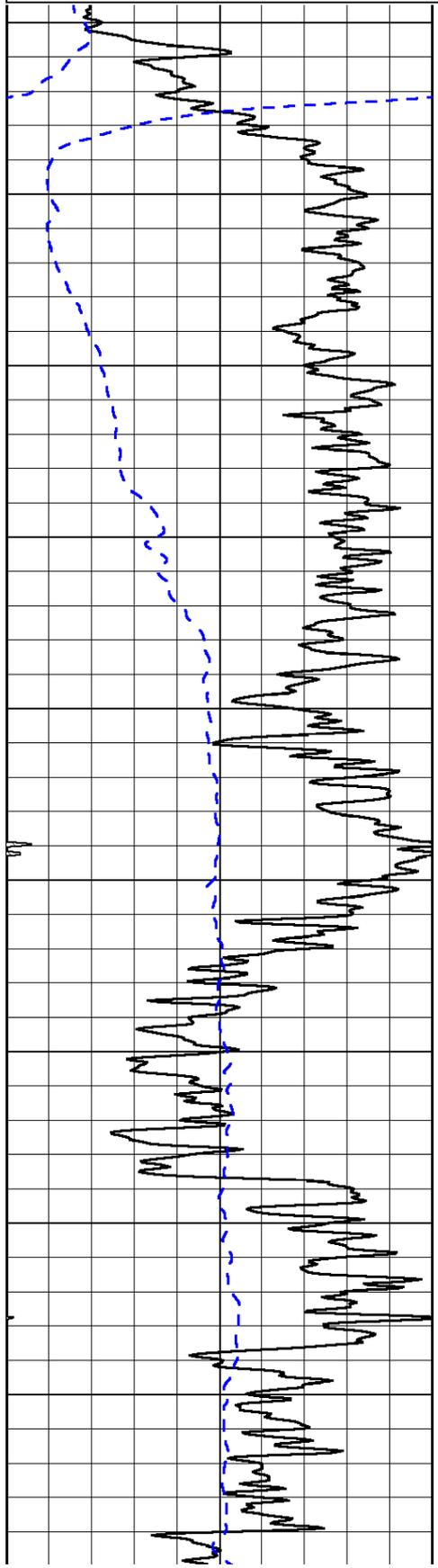
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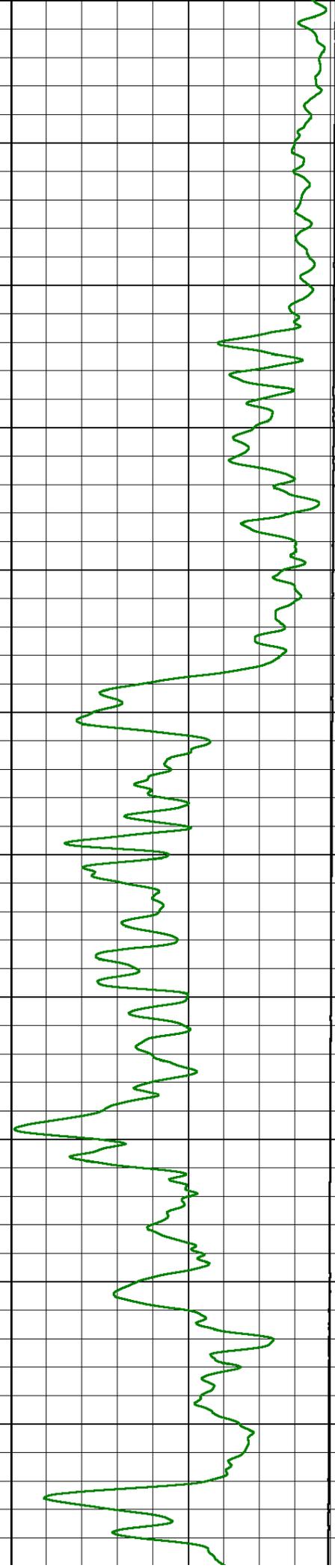
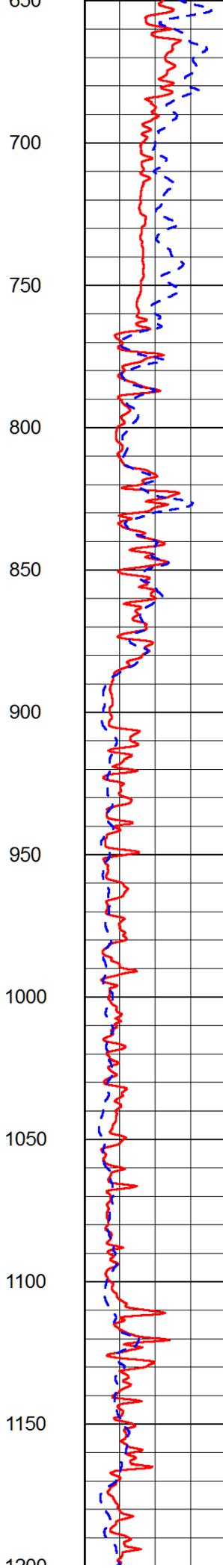
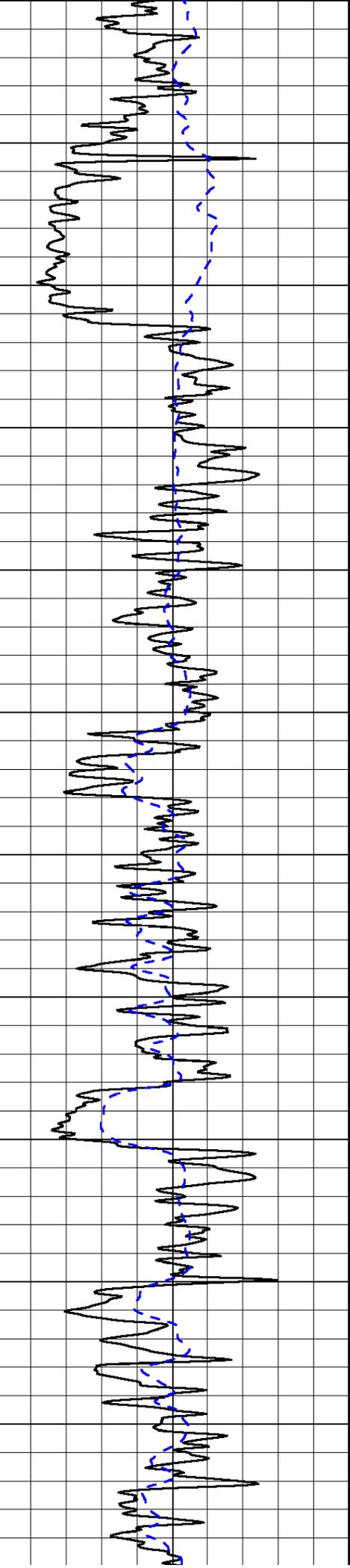
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

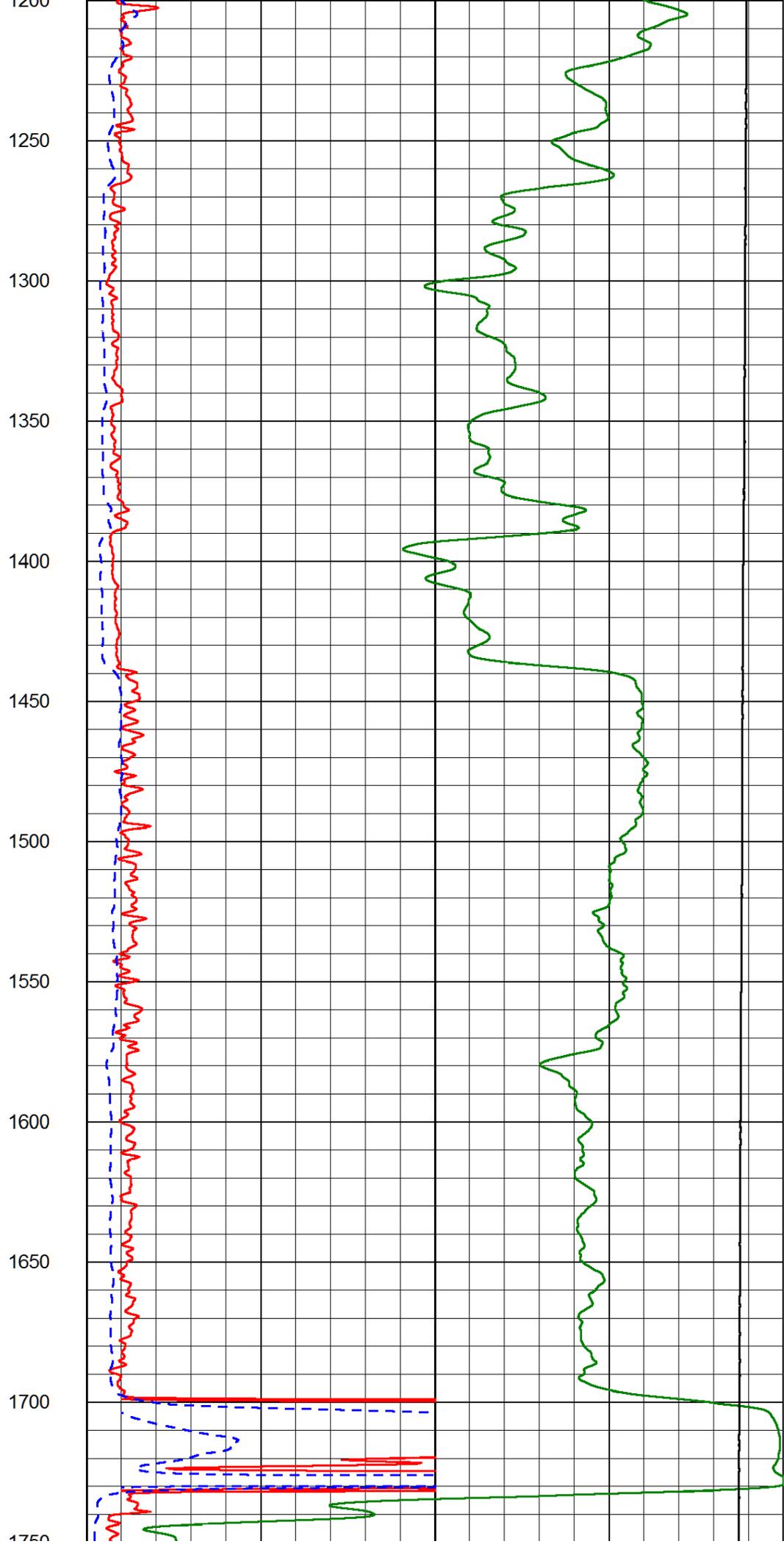
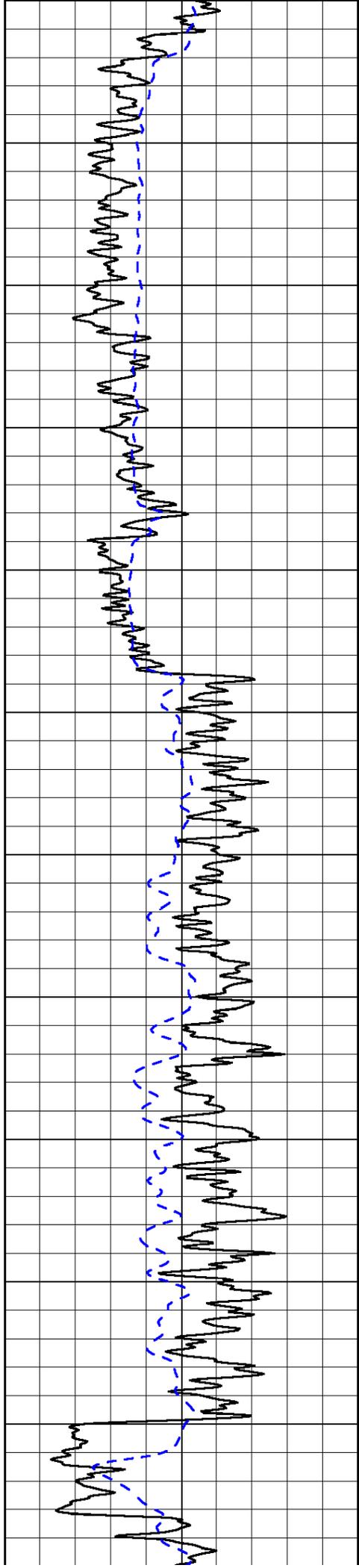
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50

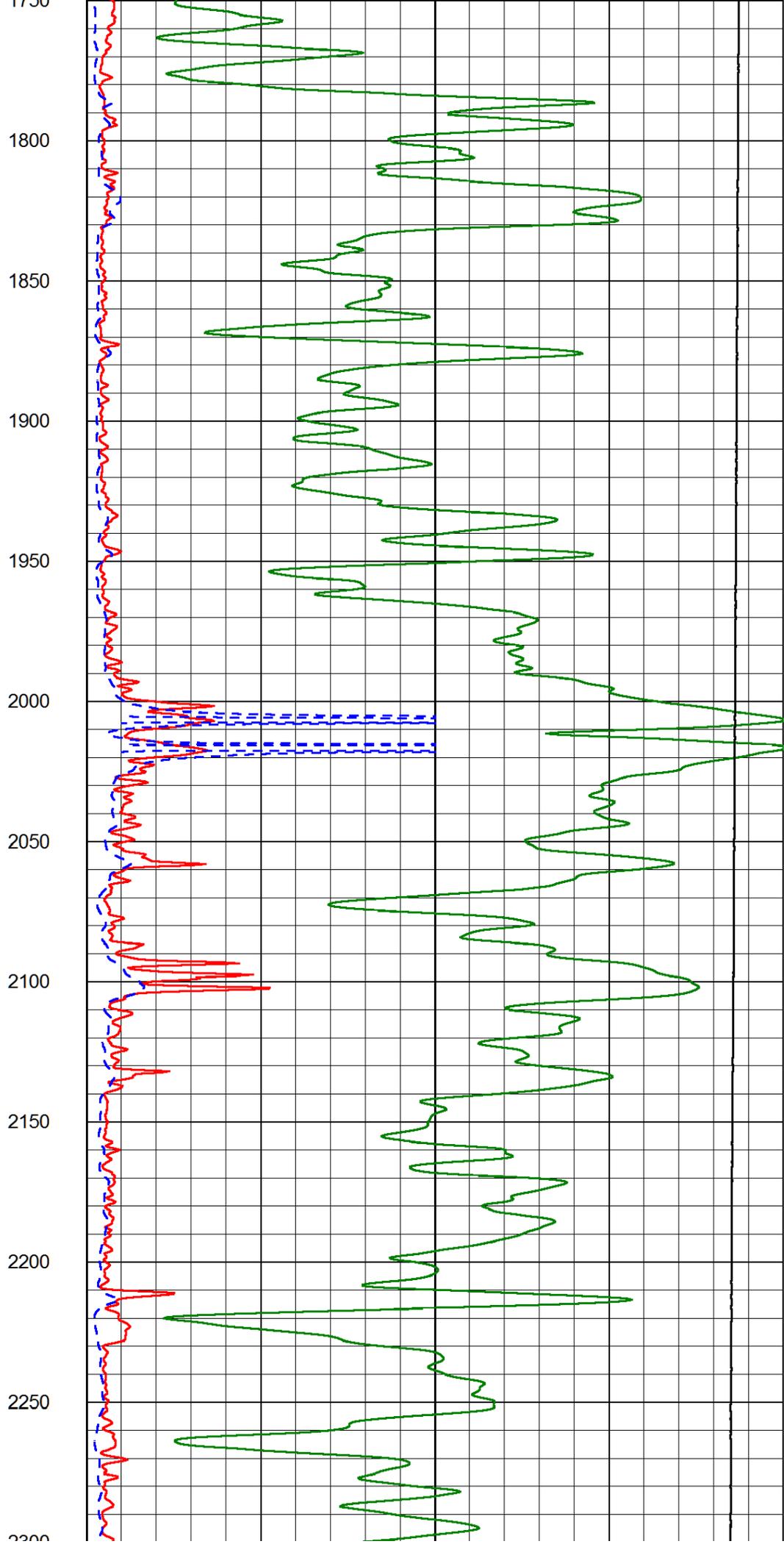
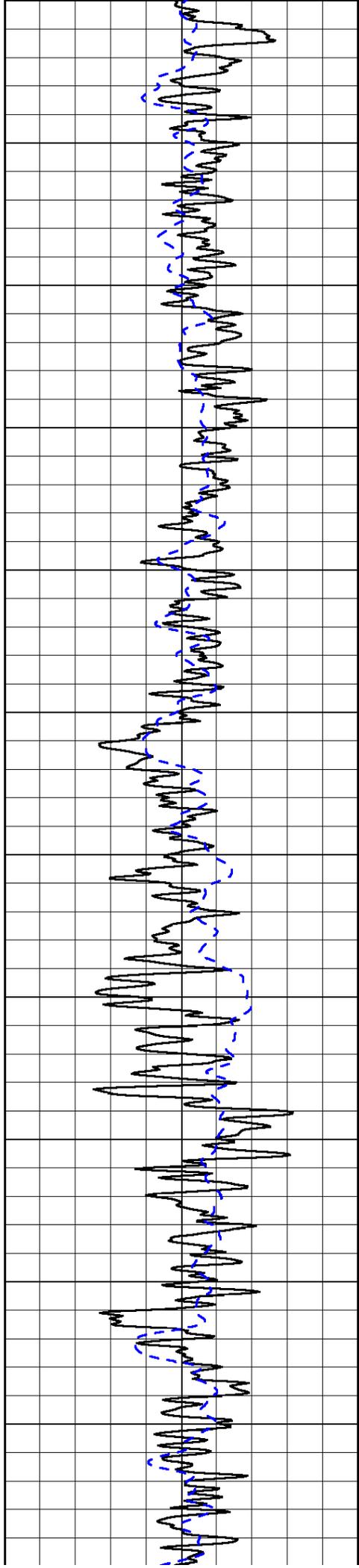
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

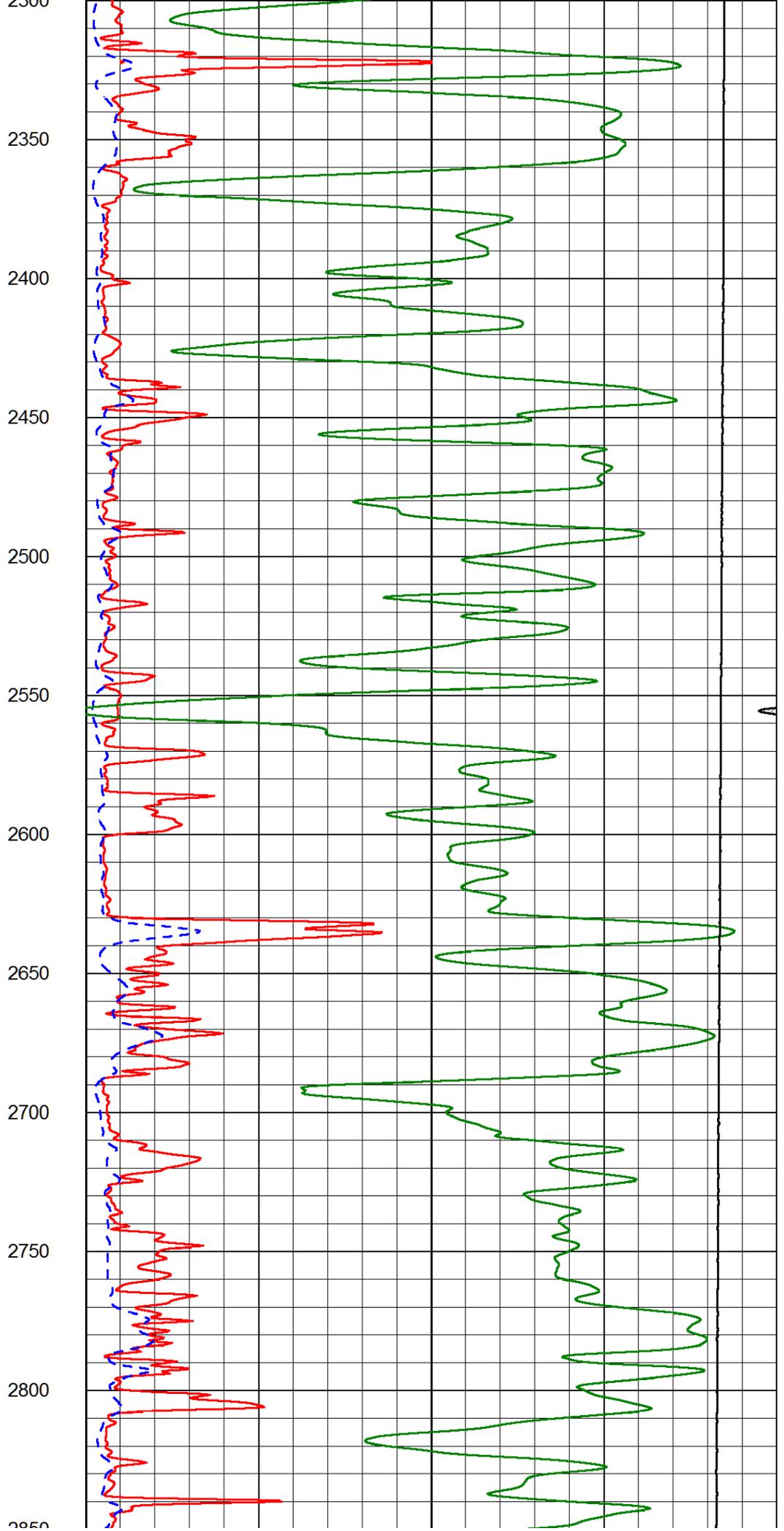
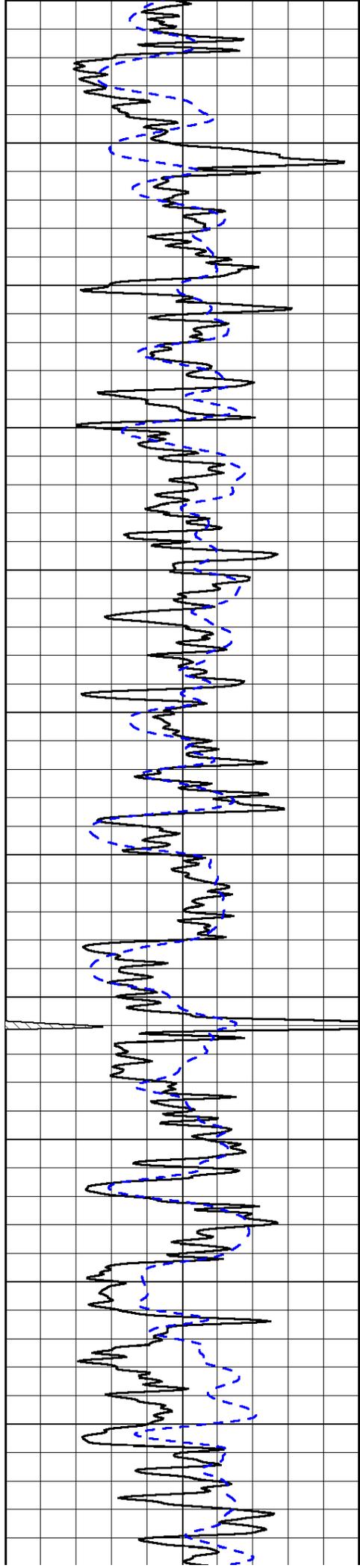
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

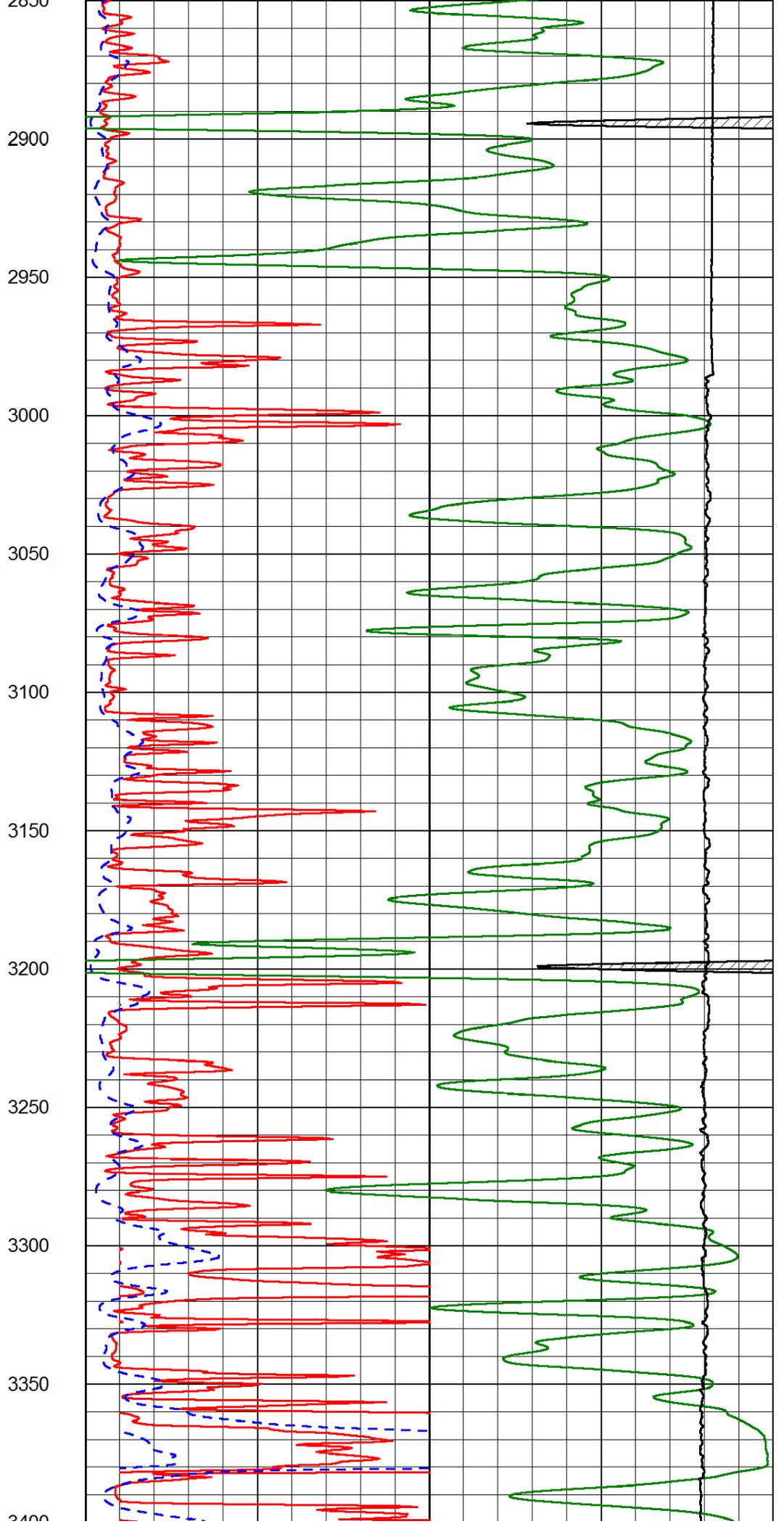
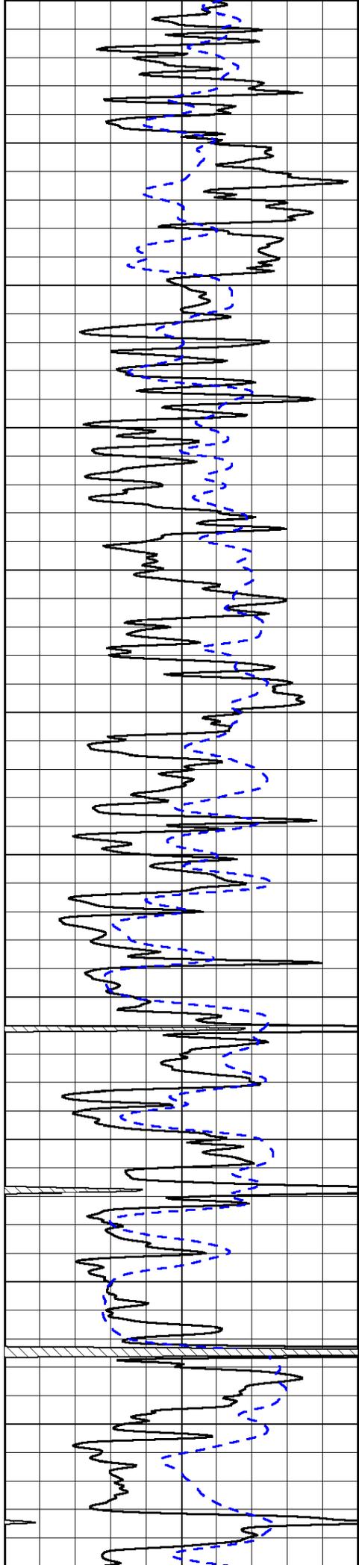


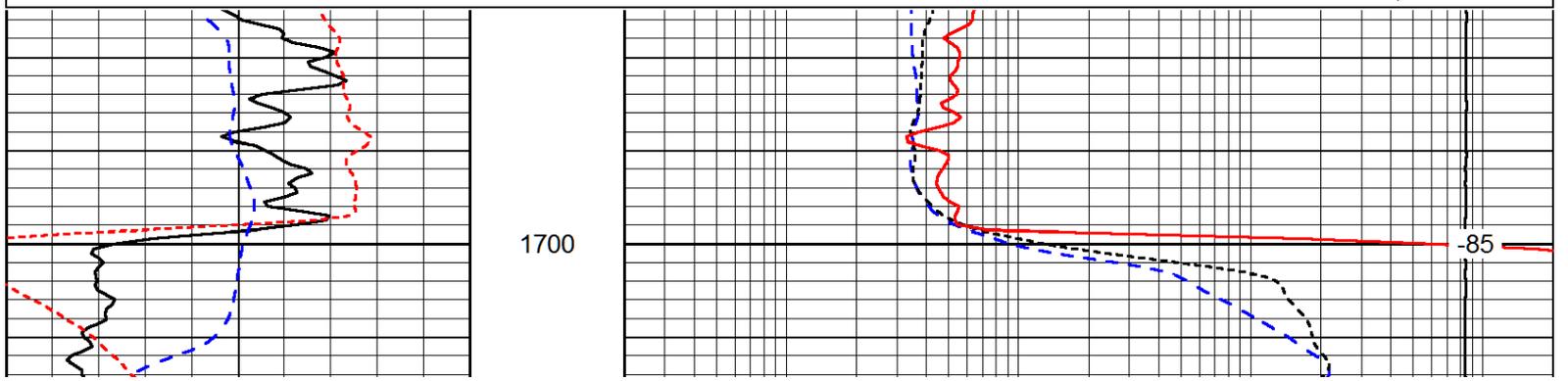
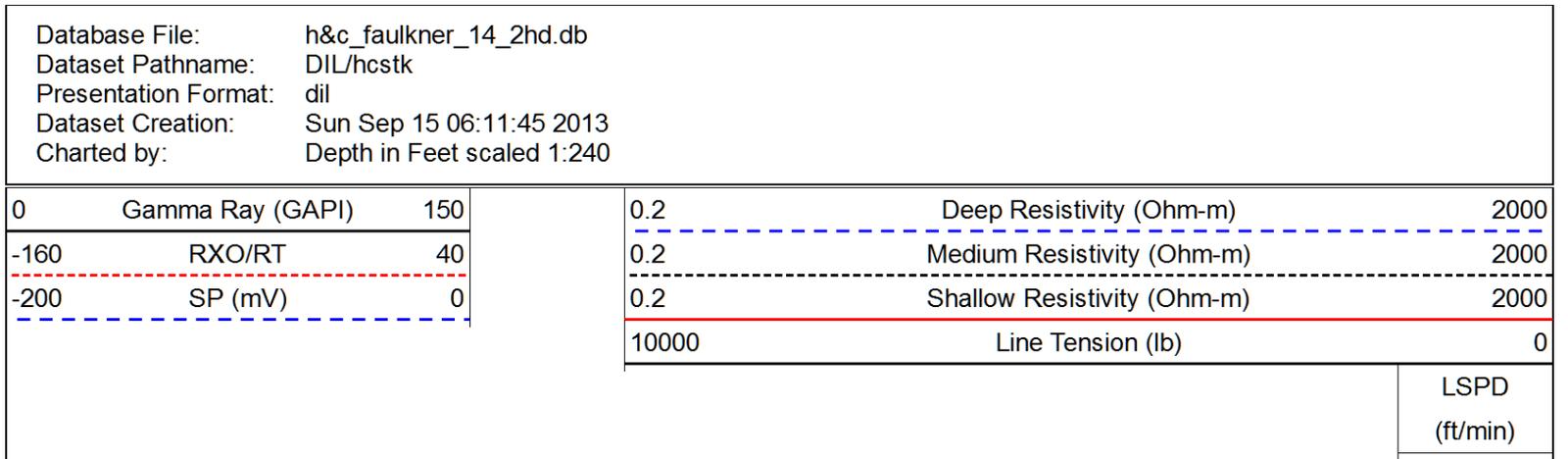
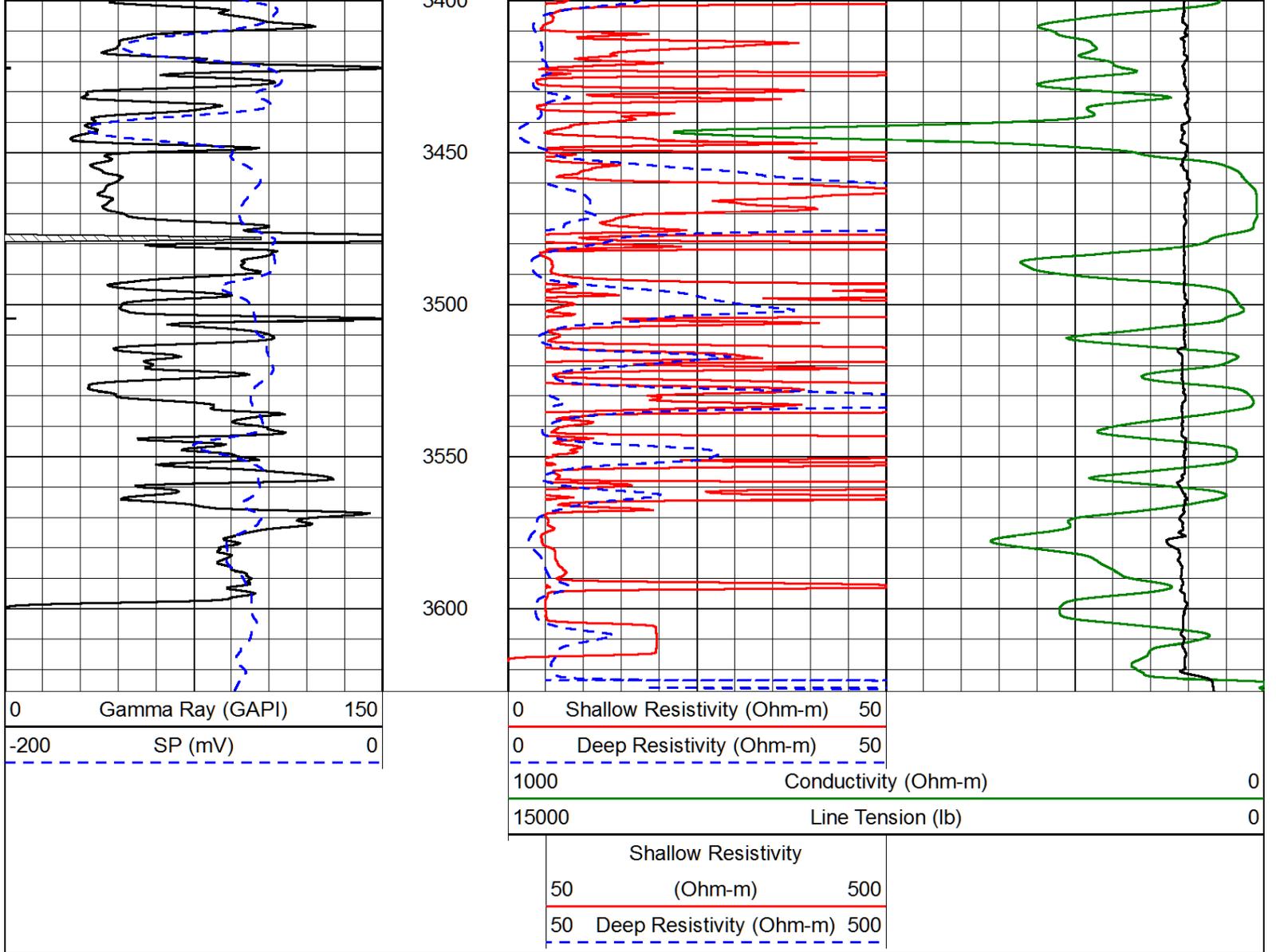


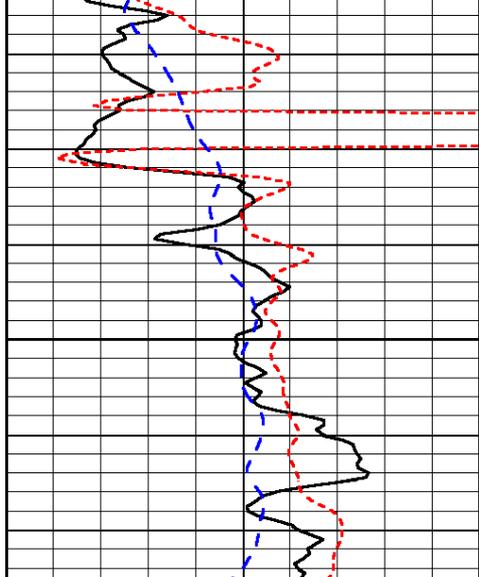






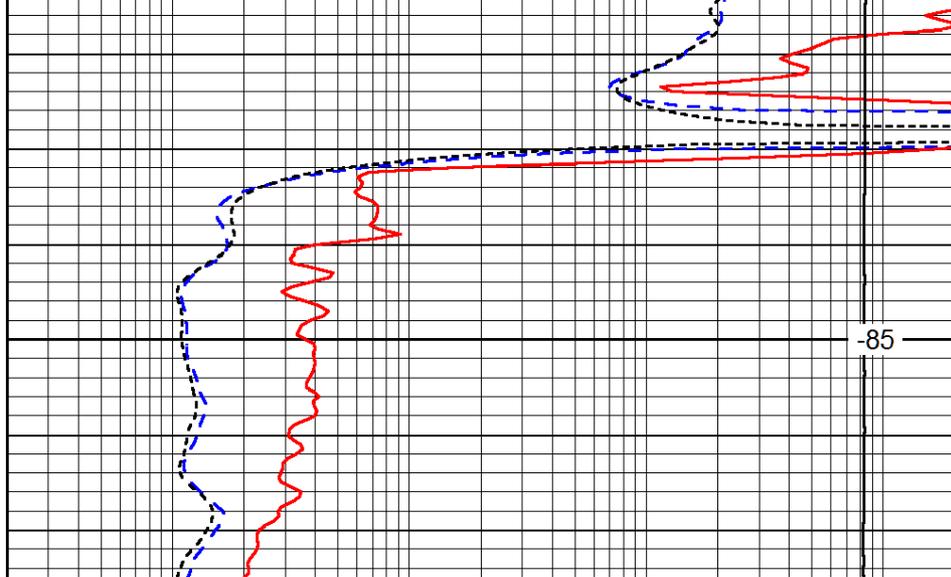






0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

1750



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

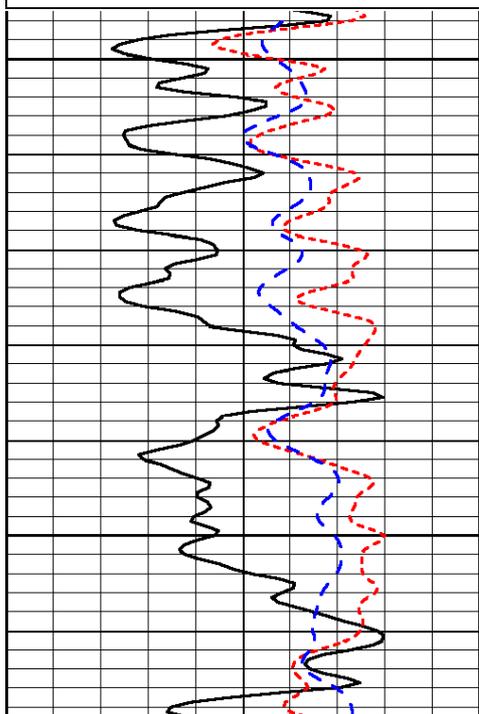
LSPD
(ft/min)

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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

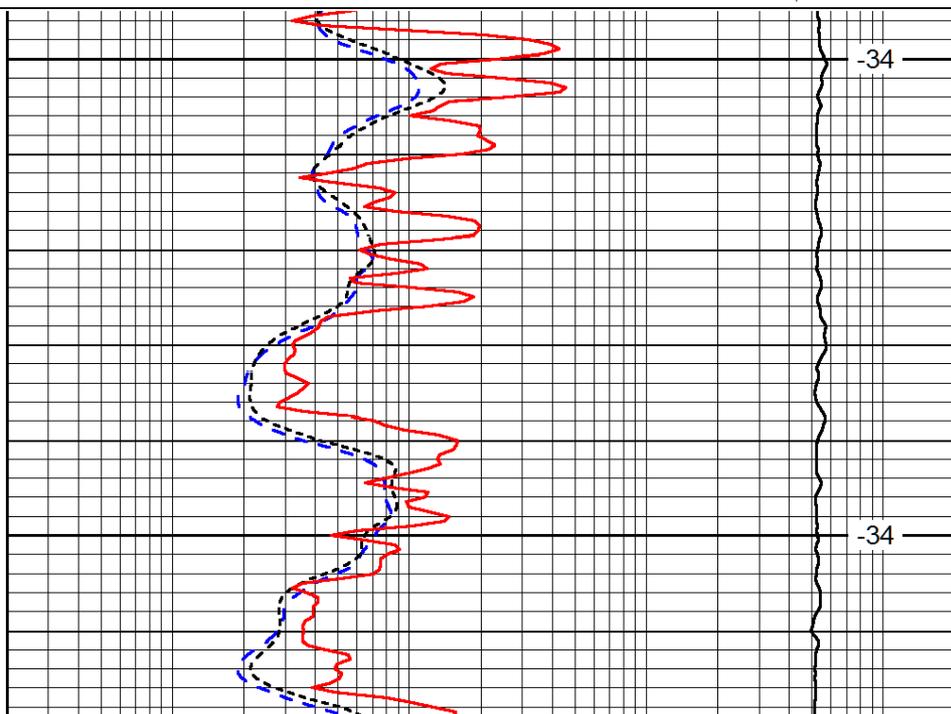
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0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)



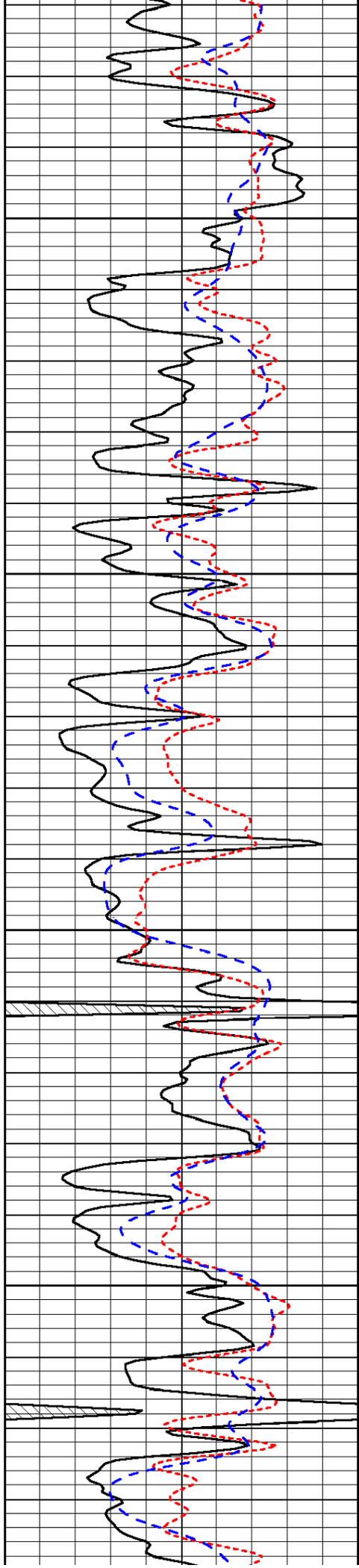
3000

3050



-34

-34

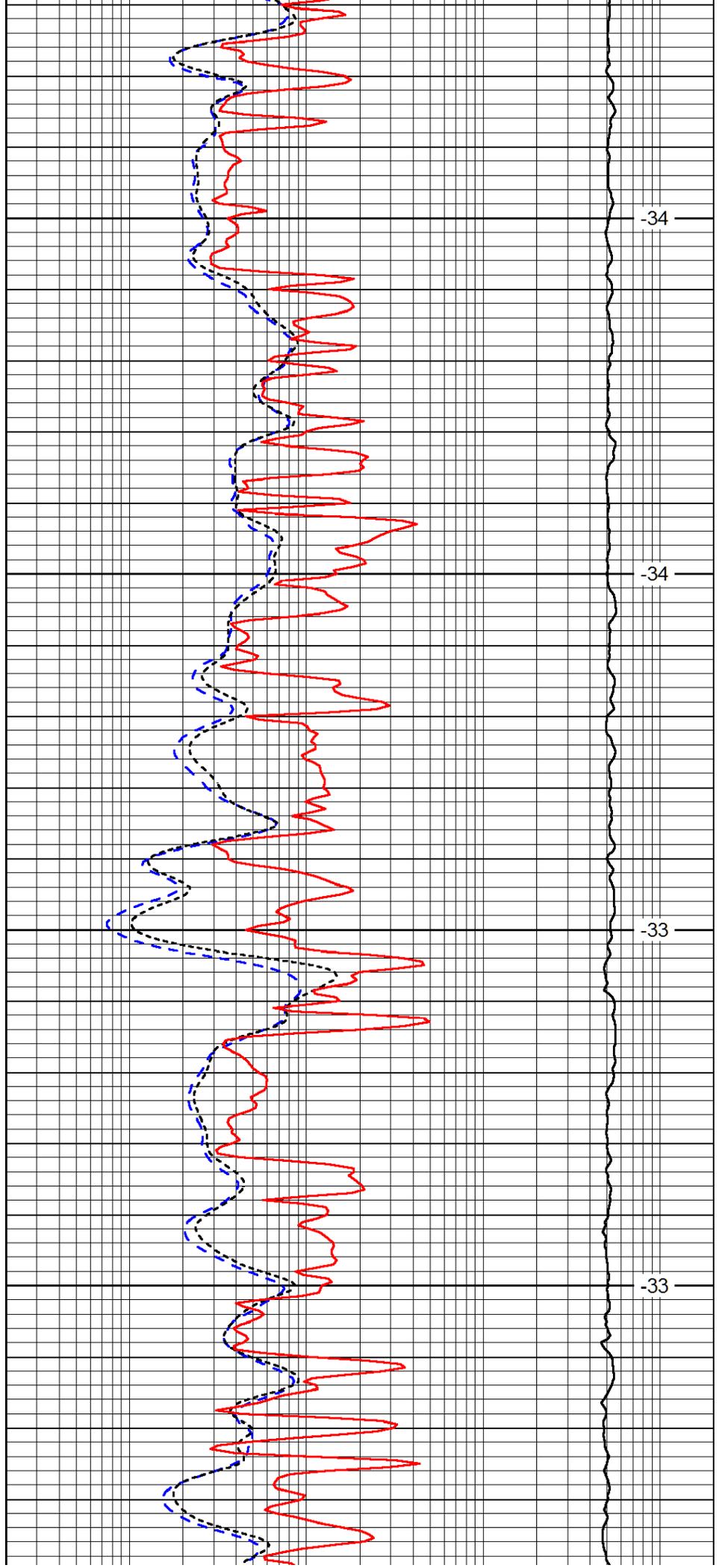


3100

3150

3200

3250

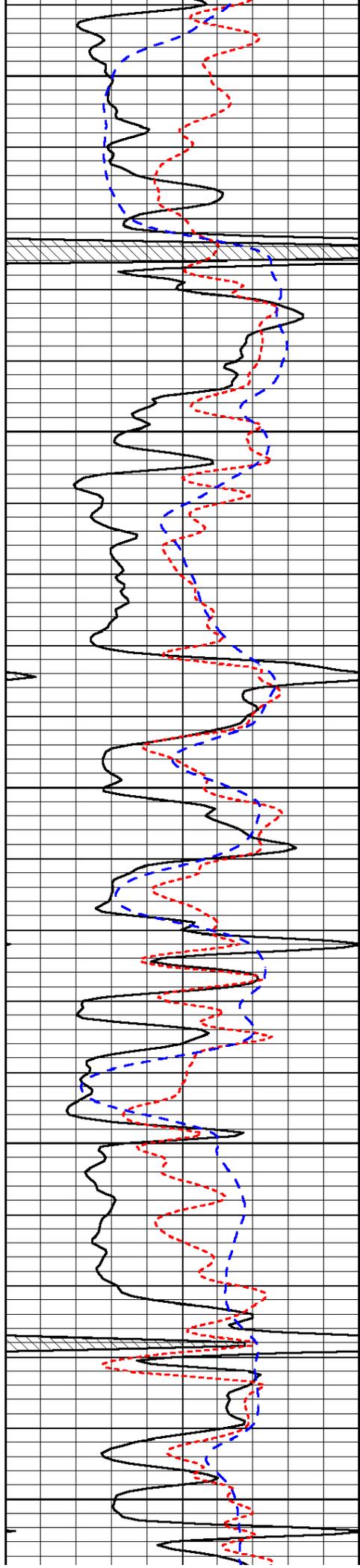


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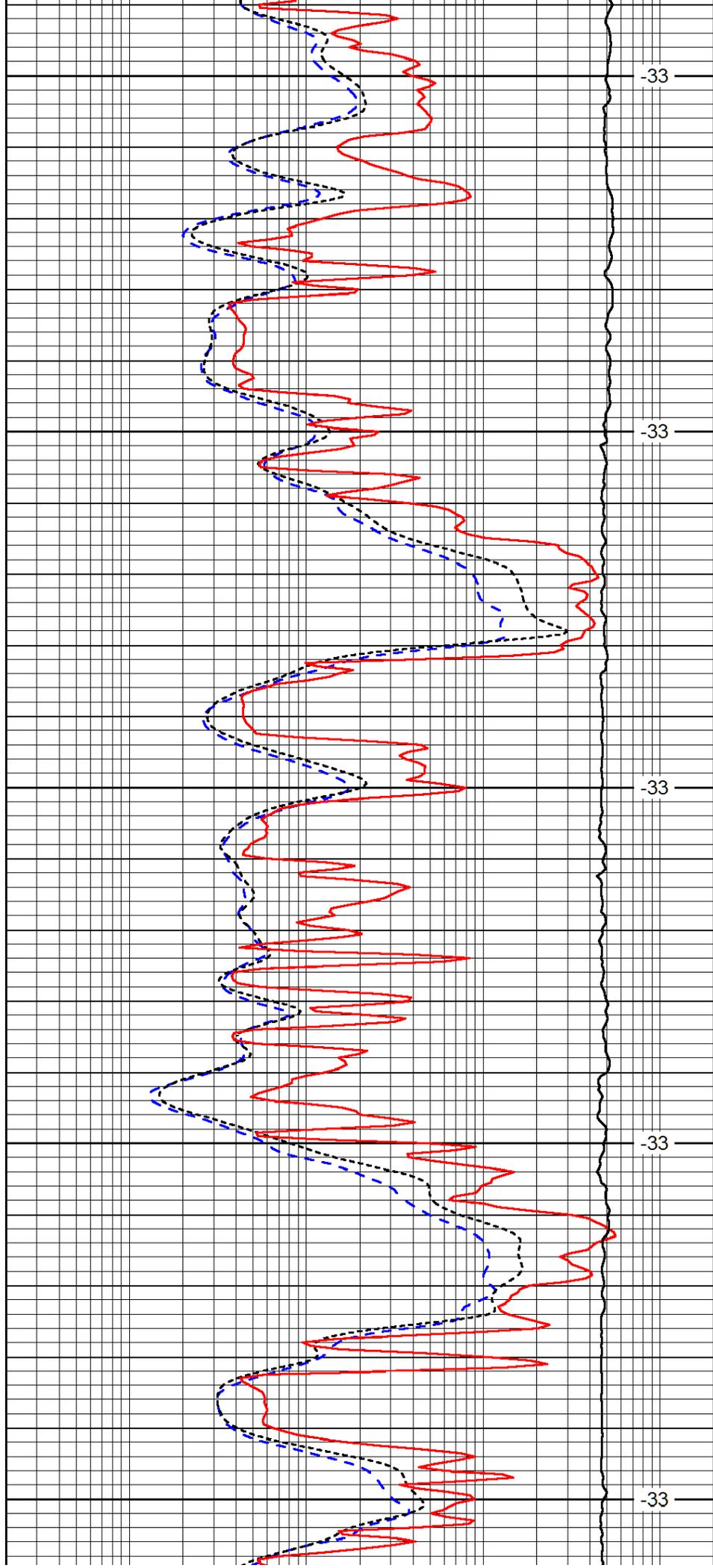
3300

3350

3400

3450

3500



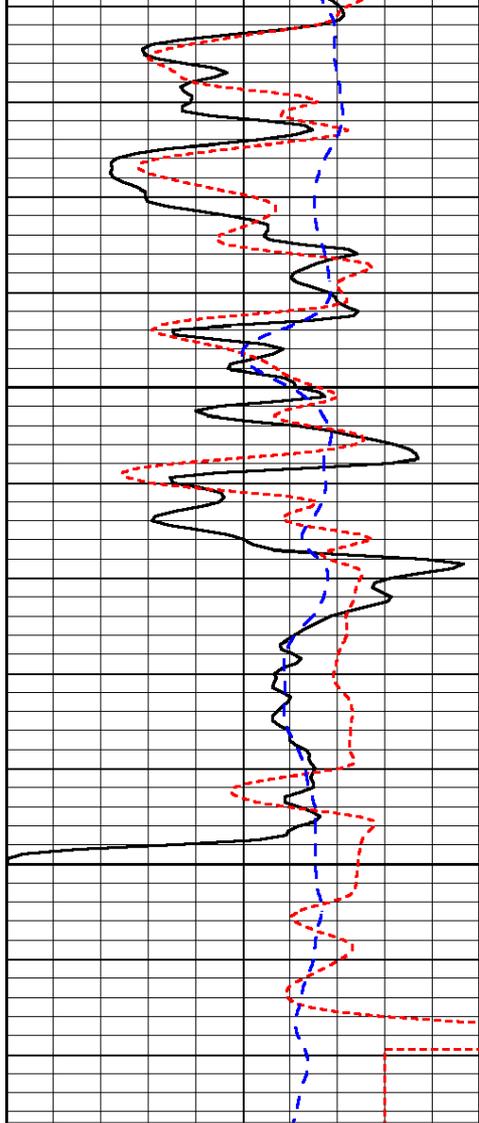
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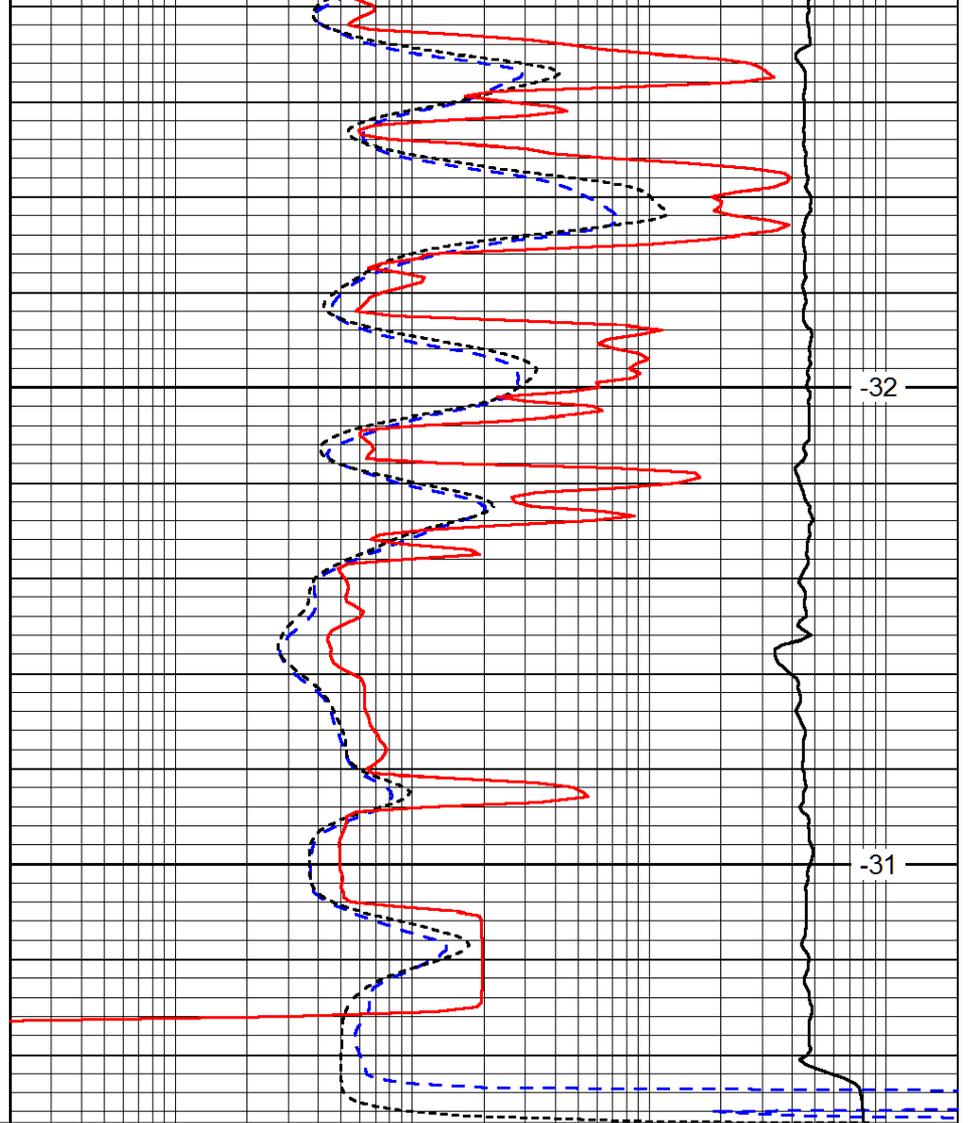
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3550

3600

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



-32

-31

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)