



Pioneer Energy Services

Dual Induction Log

154-159-22765-00-00

API No.	Company RJM Company		Location N2 SE SE NW 2100' FNL / 2310' FWL	Other Services CNL/CDL MEL/BHCS
	Well Hoelscher Farms #2	Field Bloomer		
	County Rice	State Kansas		
	Sec: 4	Twp: 18S	Rge: 10W	
Permanent Datum	Ground Level	Elevation	Elevation	
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum	K.B.	1798
Drilling Measured From	Kelly Bushing		D.F.	1789
			G.L.	1789

Date	2/28/2014
Run Number	One
Depth Driller	3342
Depth Logger	3340
Bottom Logged Interval	3339
Top Log Interval	300
Casing Driller	8.625 @ 333
Casing Logger	330
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	4000
Density / Viscosity	9.0 48
pH / Fluid Loss	9.0 8.8
Source of Sample	Flowline
Rm @ Meas. Temp	0.85 @ 50
Rmf @ Meas. Temp	0.64 @ 50
Rmc @ Meas. Temp	1.15 @ 50
Source of Rmf / Rmc	Charts
Rm @ BHT	0.39 @ 110
Operating Rig Time	4 Hours
Max Rec. Temp. F	110
Equipment Number	15
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

Clafin, KS:
4 1/2E, 1/2S, E into

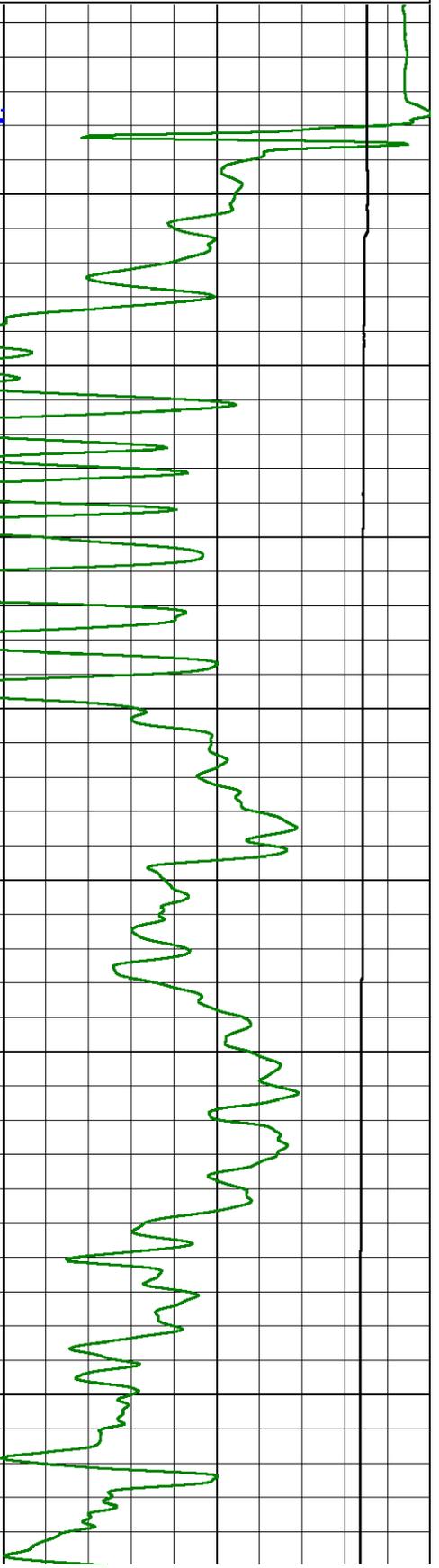
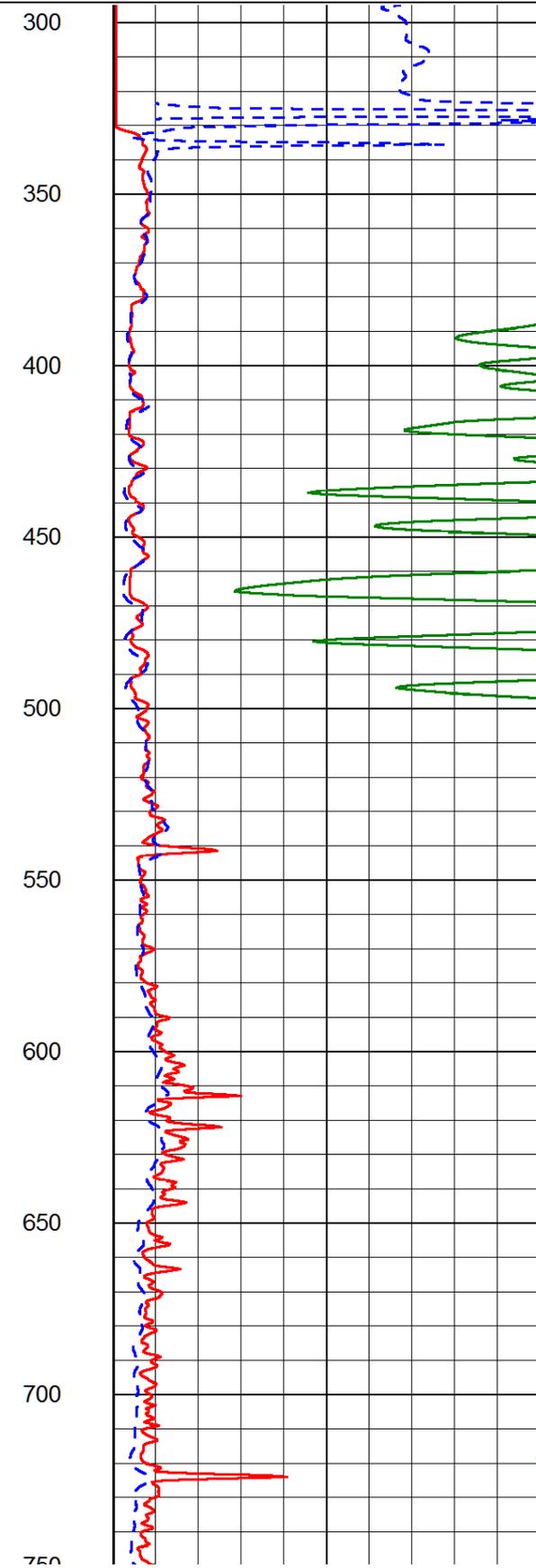
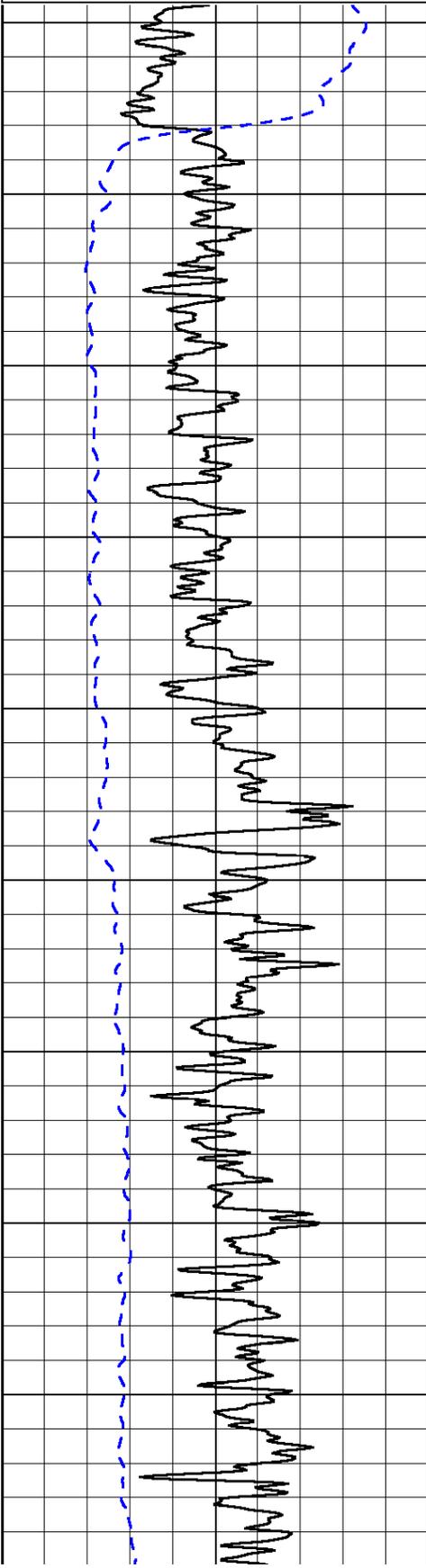
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 Presentation Format: dil2in
 Dataset Creation: Fri Feb 28 04:34:58 2014
 Charted by: Depth in Feet scaled 1:600

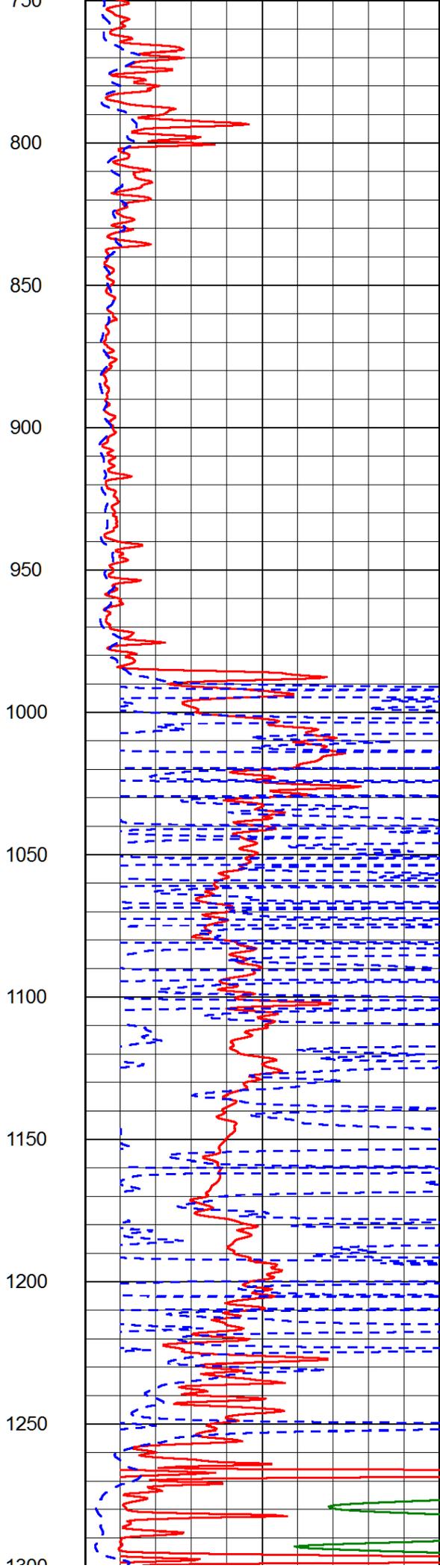
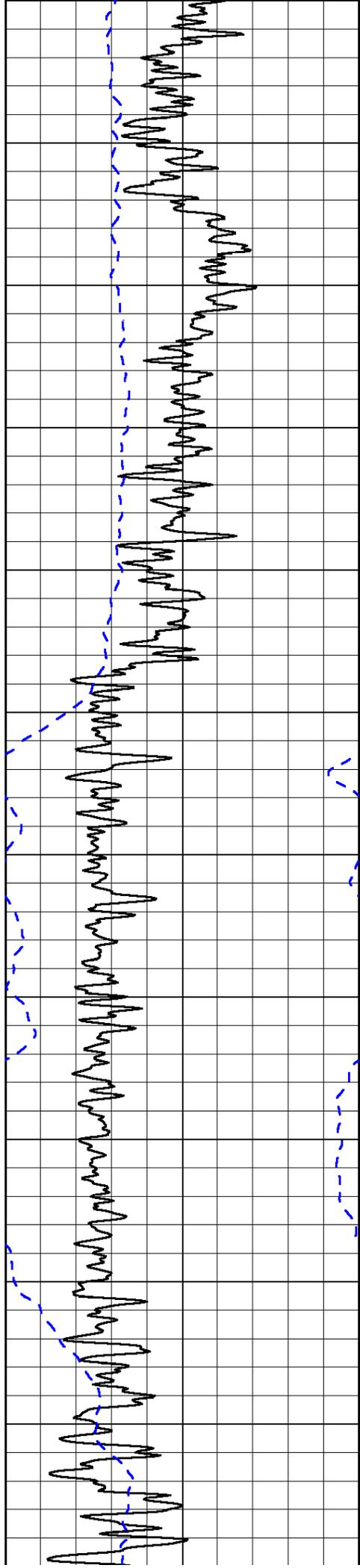
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

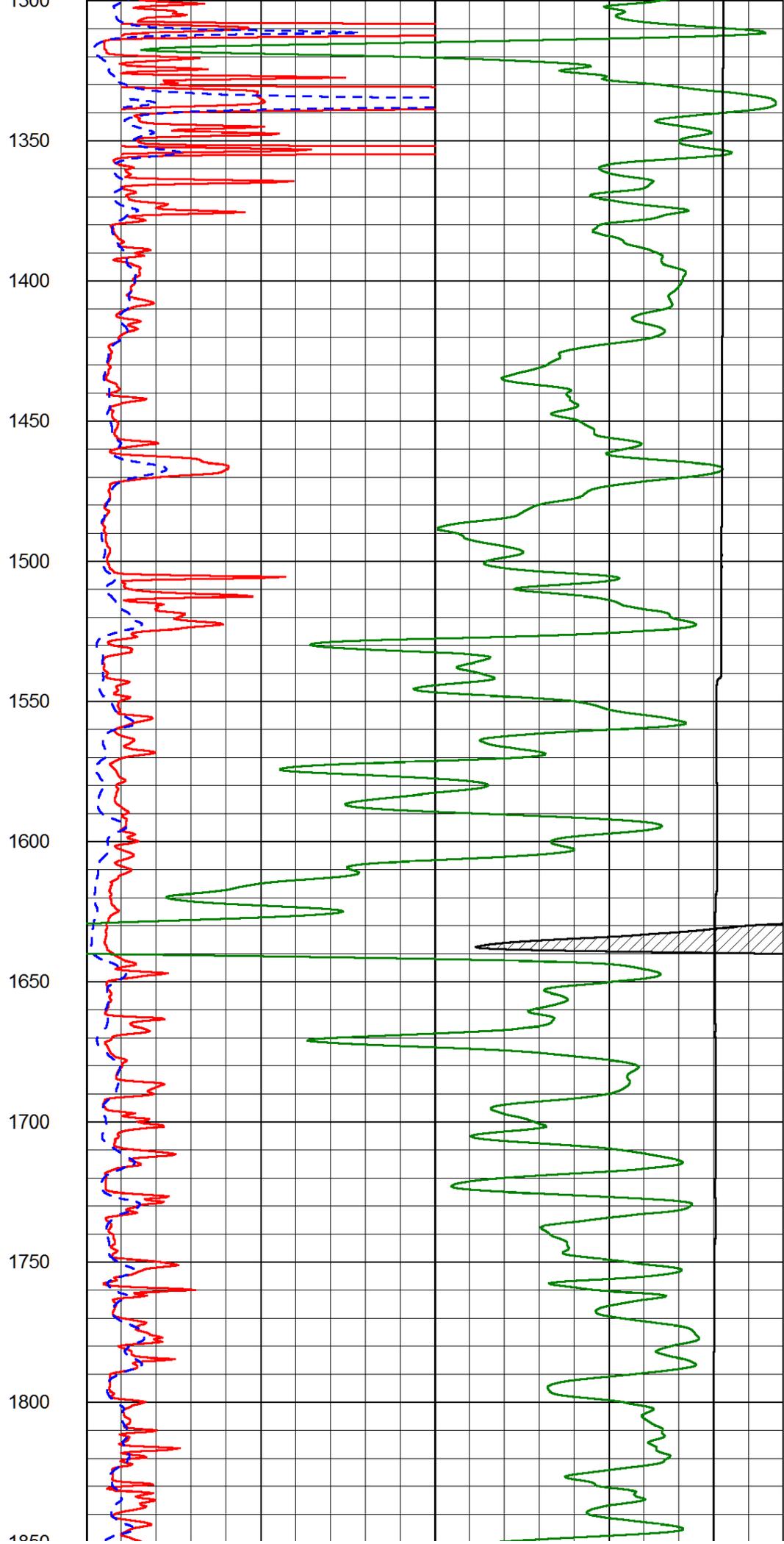
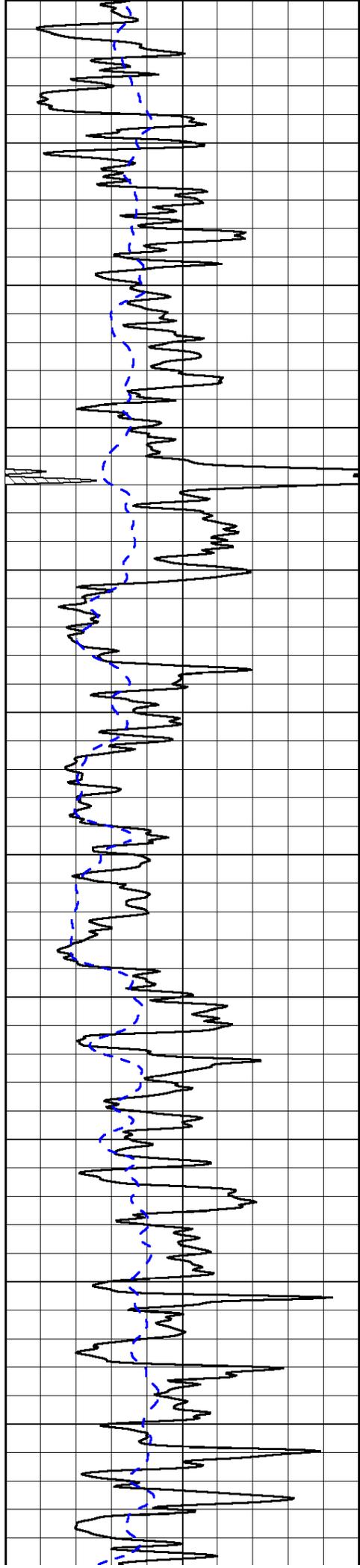
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50

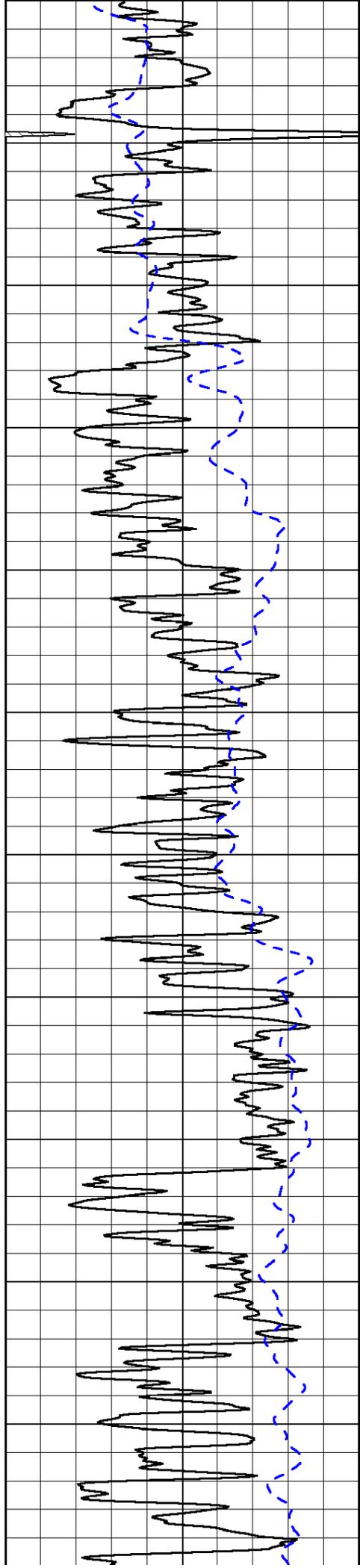
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

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

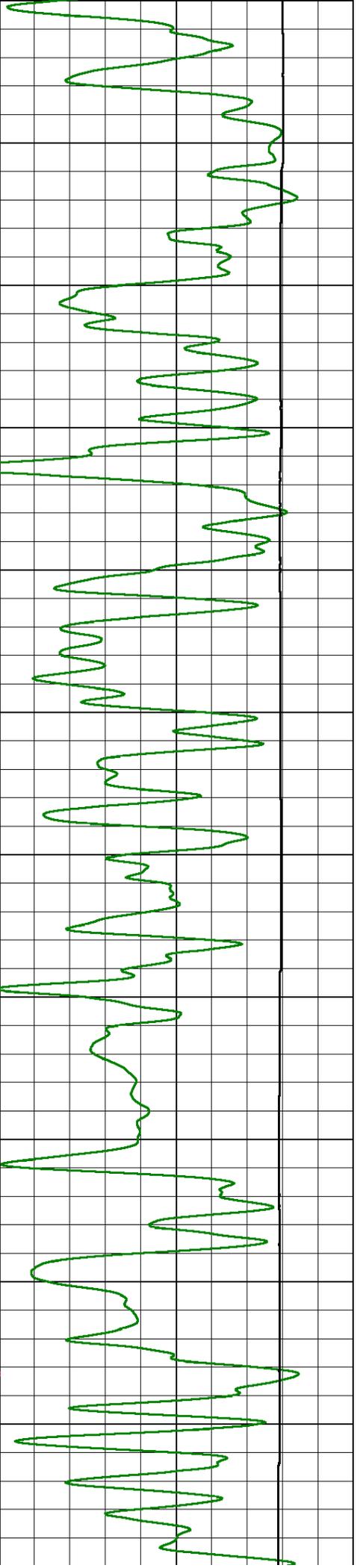
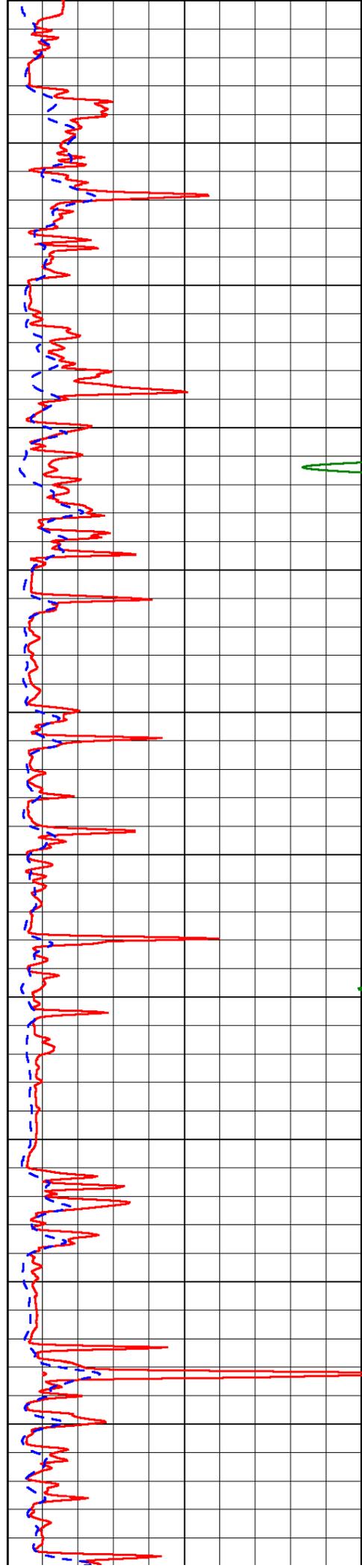


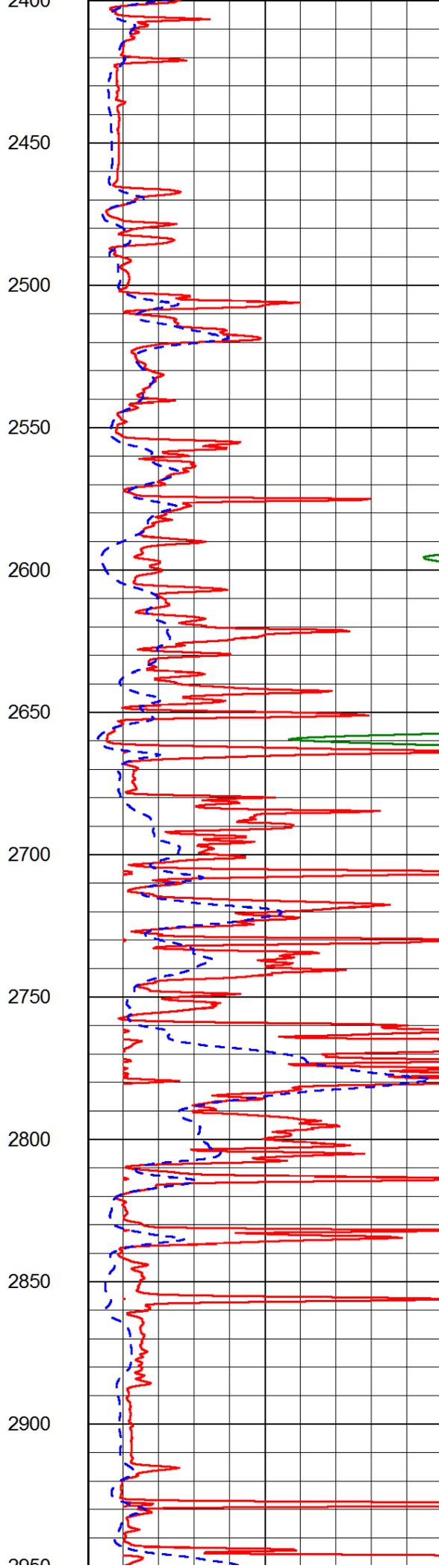
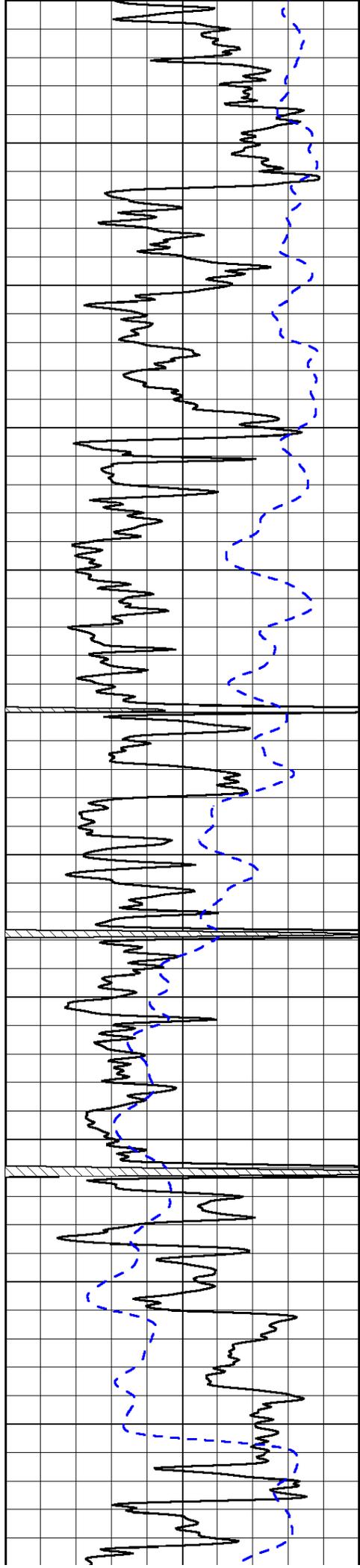


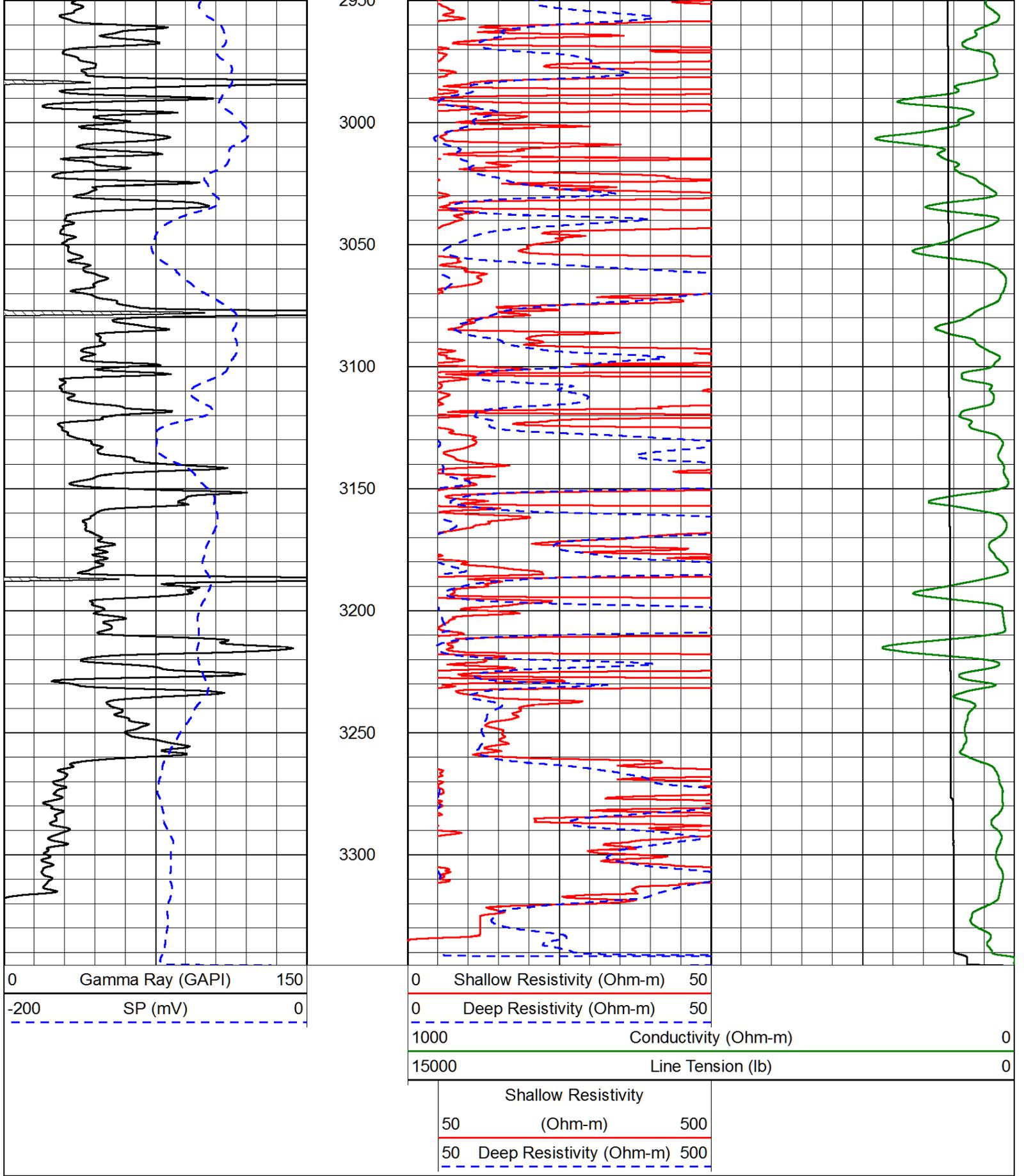




1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400





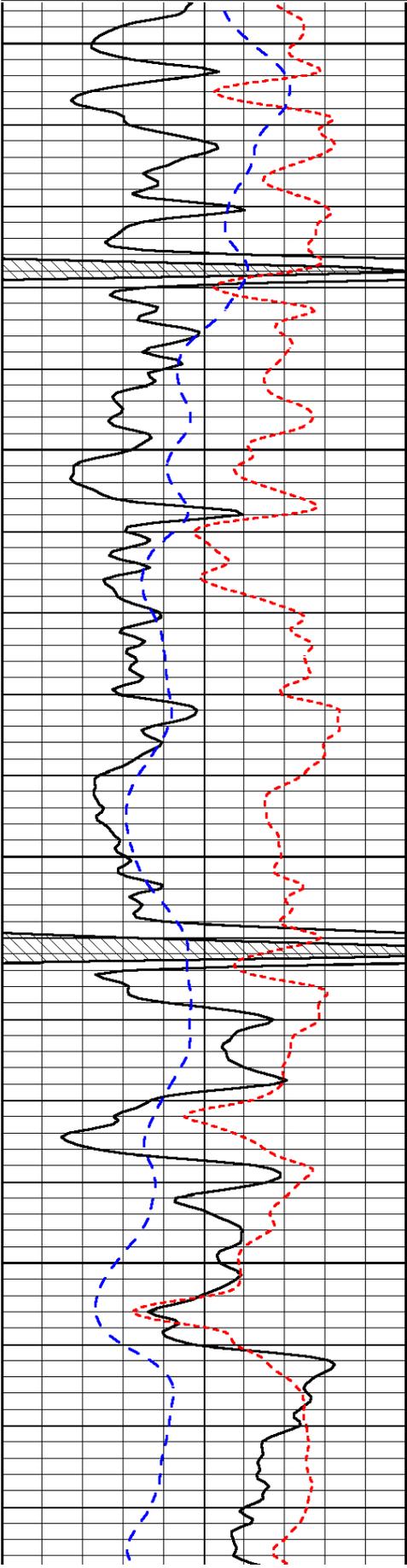


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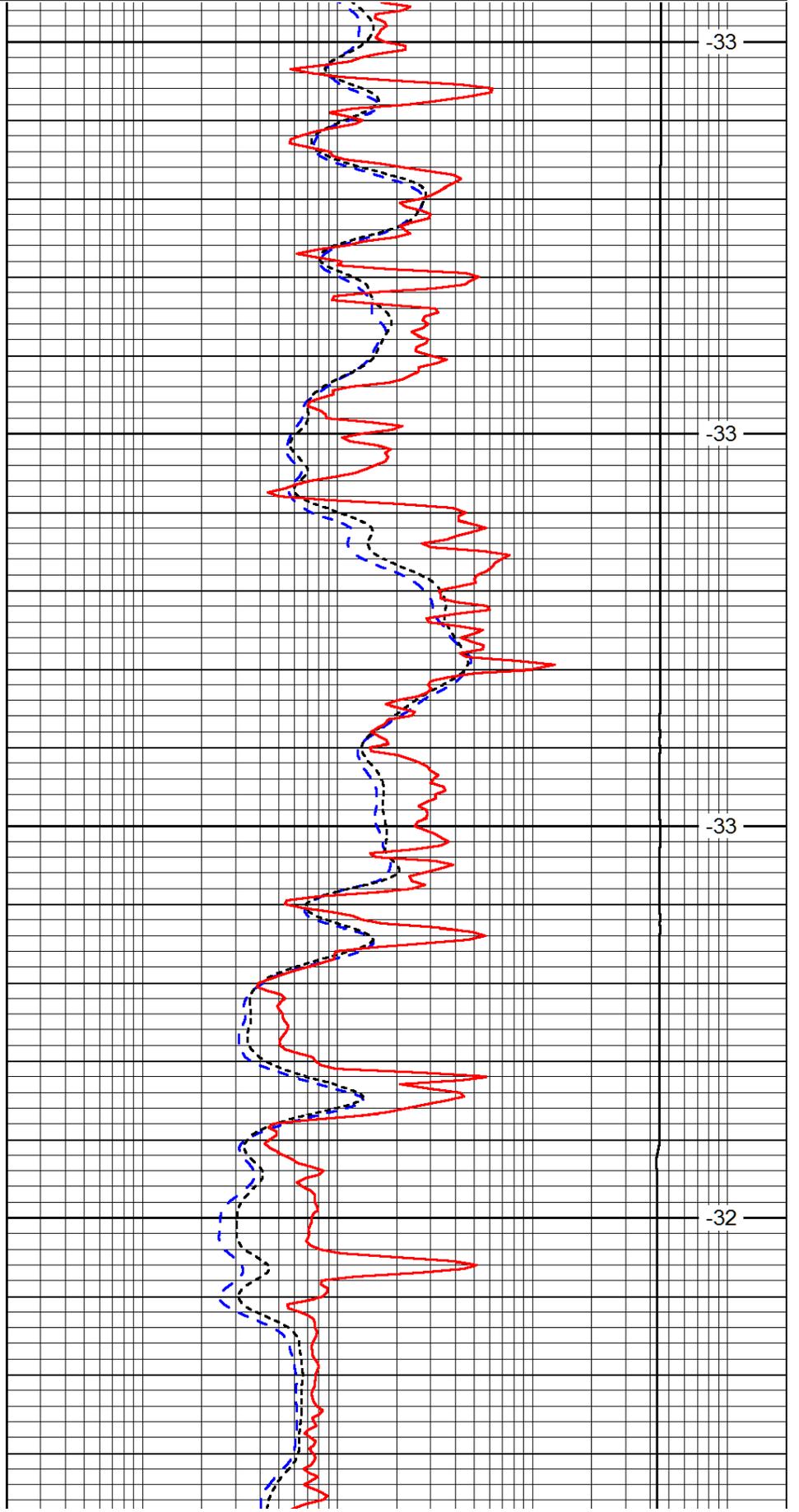
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

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

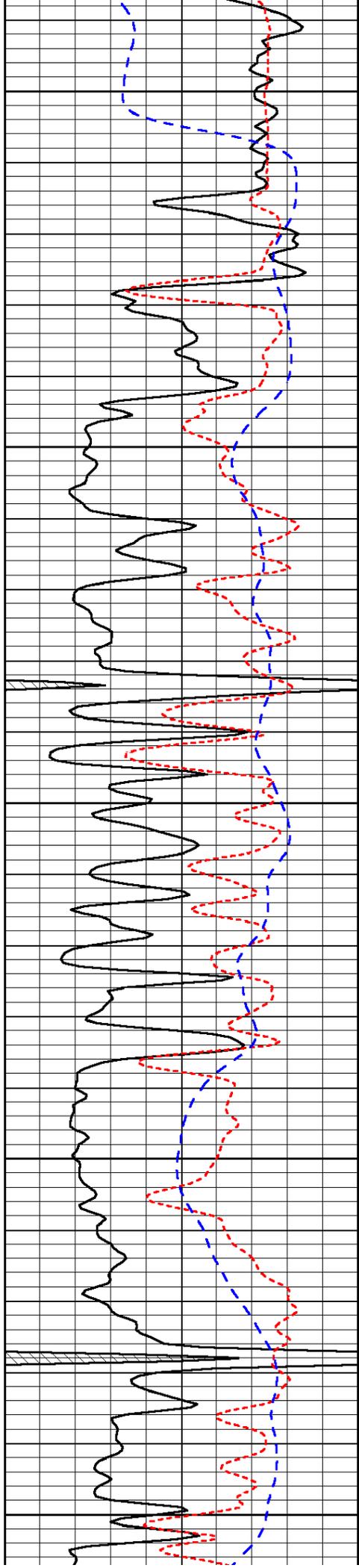
LSPD
(ft/min)



2700
2750
2800
2850



-33
-33
-33
-32



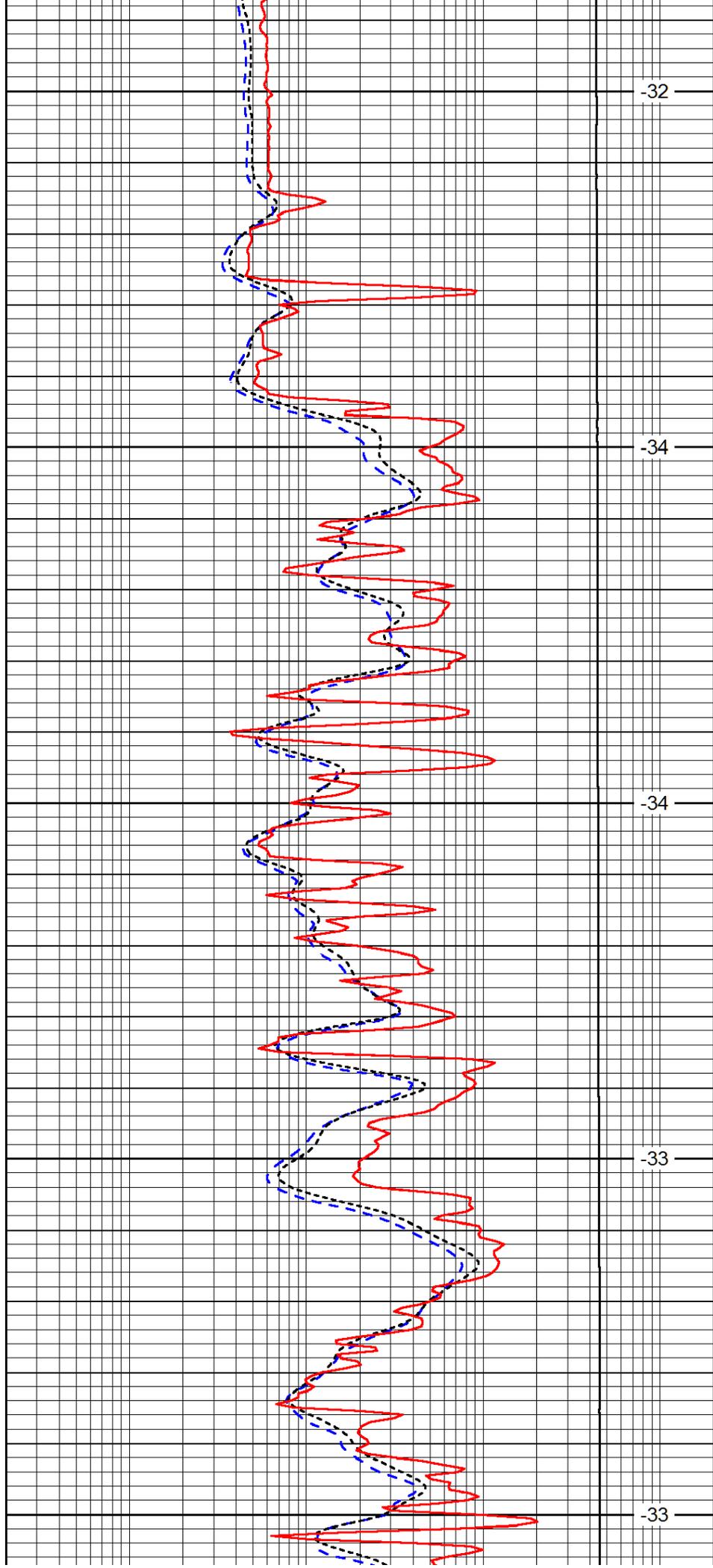
2900

2950

3000

3050

3100



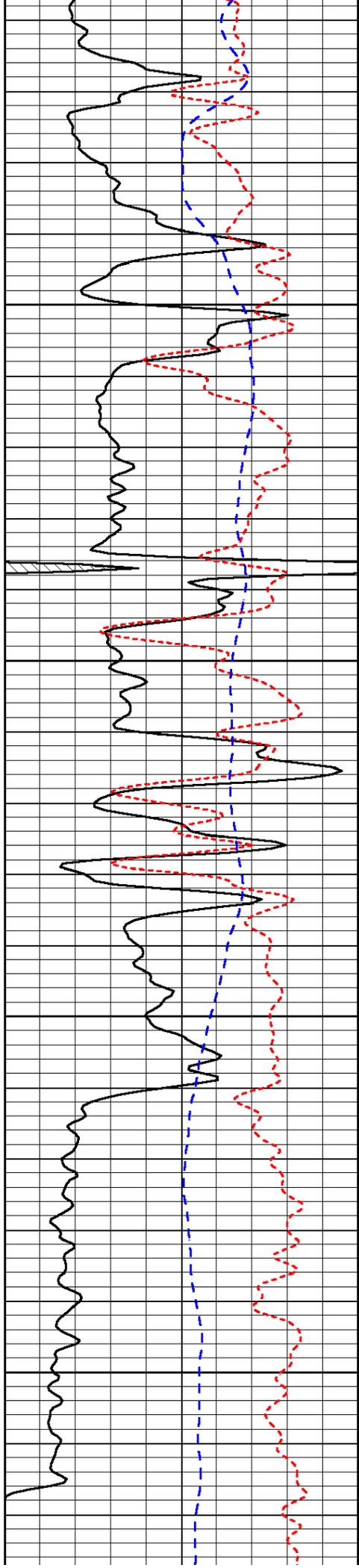
-32

-34

-34

-33

-33

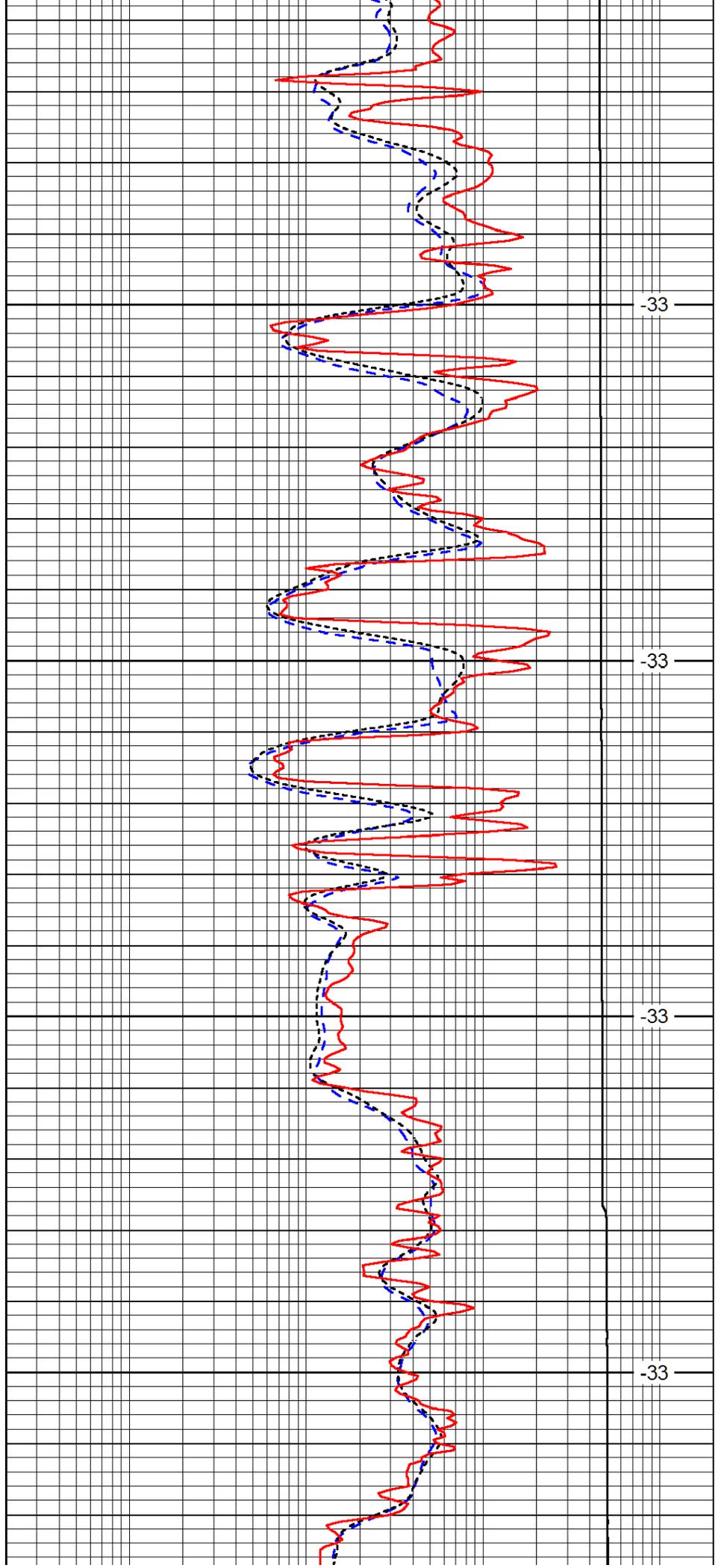


3150

3200

3250

3300

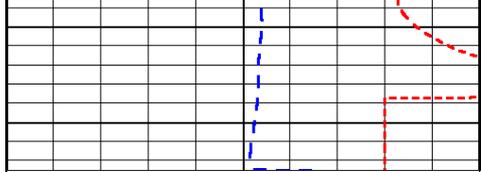


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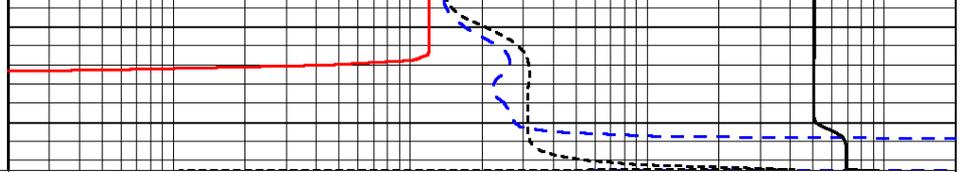
-33

-33

-33



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)