



Dual Induction Log

Pioneer Energy Services

API No.	Company Messenger Petroleum, Inc. Well Karlin Trust No.1 Field Wildcat County Ellis State Kansas				
15-051-26,613-00-00	Location	2540' FSL & 885' FEL		Other Services CNL/CDL	
	Sec: 17	Twp: 13S	Rge: 18W	Elevation K.B. 2091 D.F. 2082 G.L. 2082	
Permanent Datum	Ground Level	Elevation 2082			
Log Measured From	Kelly Bushing	9	Ft. Above Perm. Datum		
Drilling Measured From	Kelly Bushing				
Date	10/8/2013				
Run Number	One				
Depth Driller	3797				
Depth Logger	3821				
Bottom Logged Interval	3820				
Top Log Interval	250				
Casing Driller	8.625 @ 266				
Casing Logger	265				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	1,200				
Density / Viscosity	9.3 60				
pH / Fluid Loss	10.5 7.2				
Source of Sample	Flowline				
Rm @ Meas. Temp	.9 @ 69				
Rmf @ Meas. Temp	.68 @ 69				
Rmc @ Meas. Temp	1.22 @ 69				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.54 @ 114				
Operating Rig Time	3 Hours				
Max Rec. Temp. F	114				
Equipment Number	17				
Location	Hays				
Recorded By	C. Desaire				
Witnessed By	Jeff Burk	Eli Felts	Keaton Jones		

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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

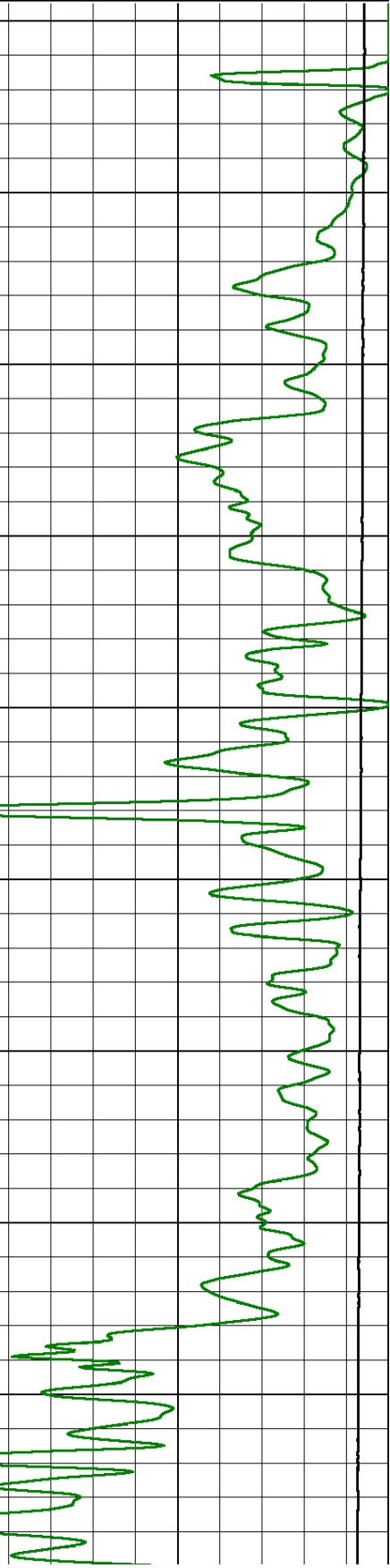
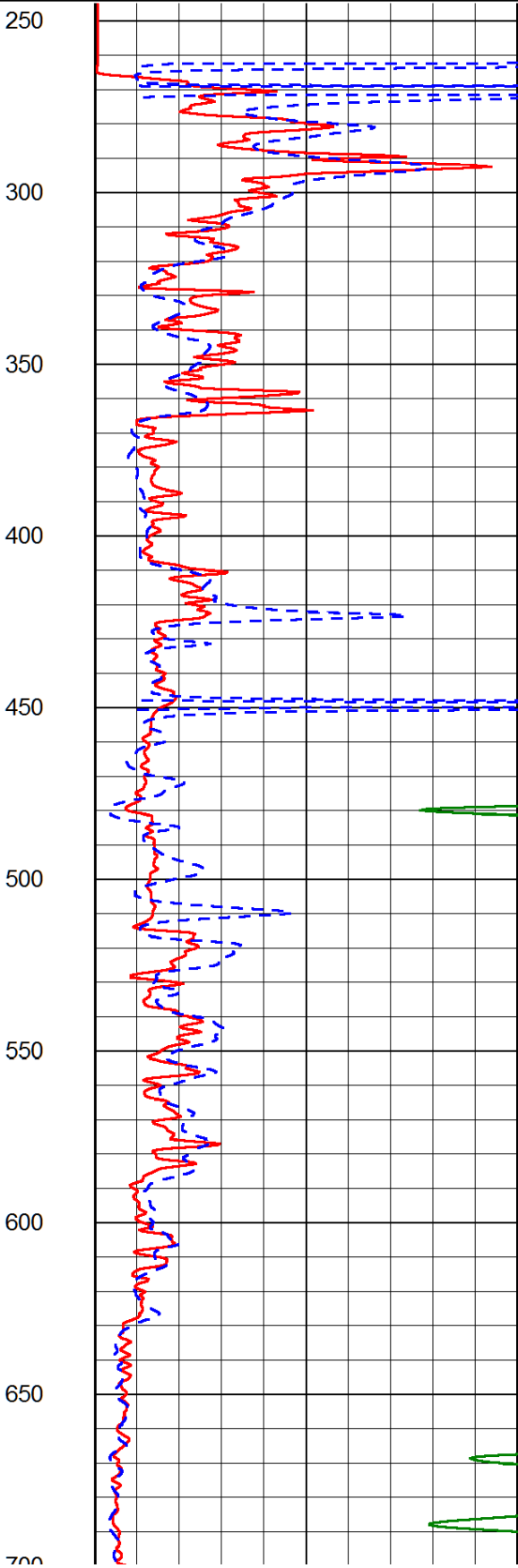
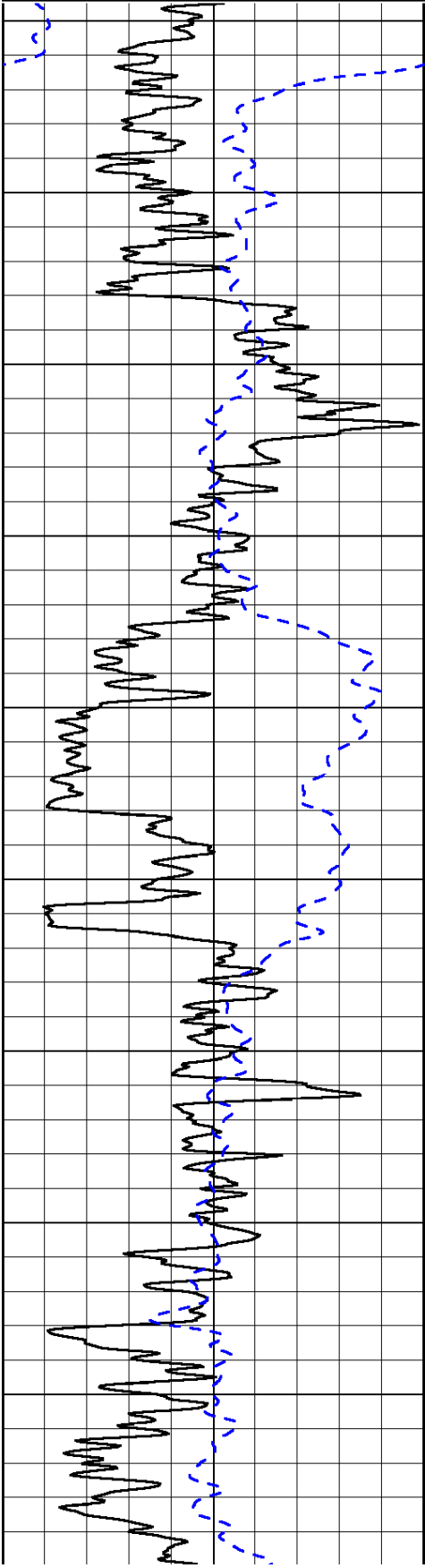
Hays KS, 1/2 N of Landfill, W Into

Database File: messengerhd.db
Dataset Pathname: dil/messstk
Presentation Format: dil2in
Dataset Creation: Tue Oct 08 01:11:56 2013
Charted by: Depth in Feet scaled 1:600

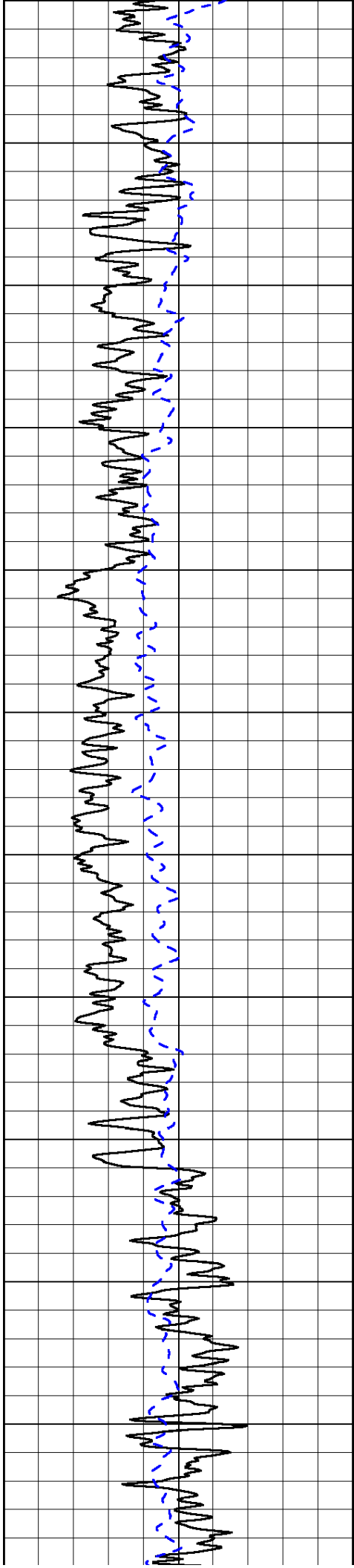
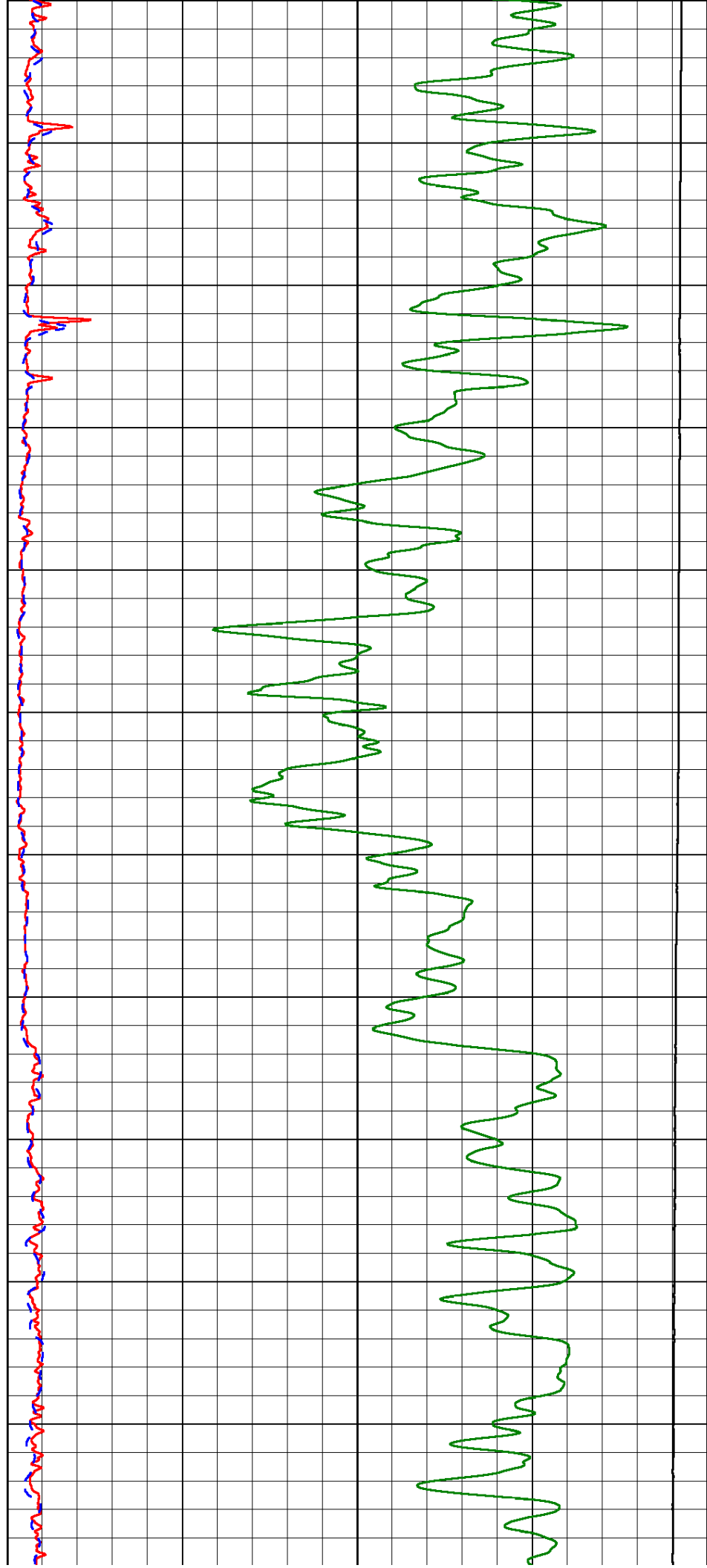
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

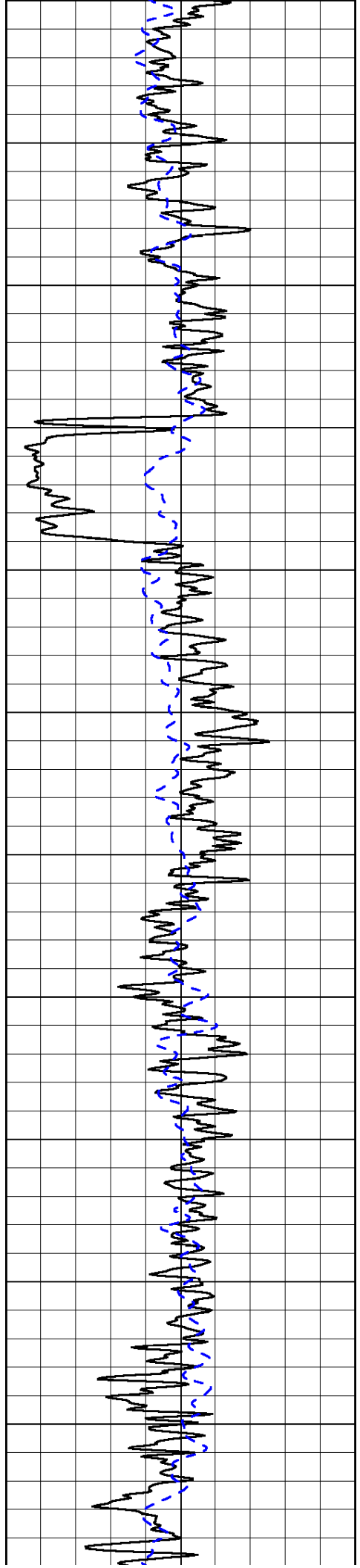
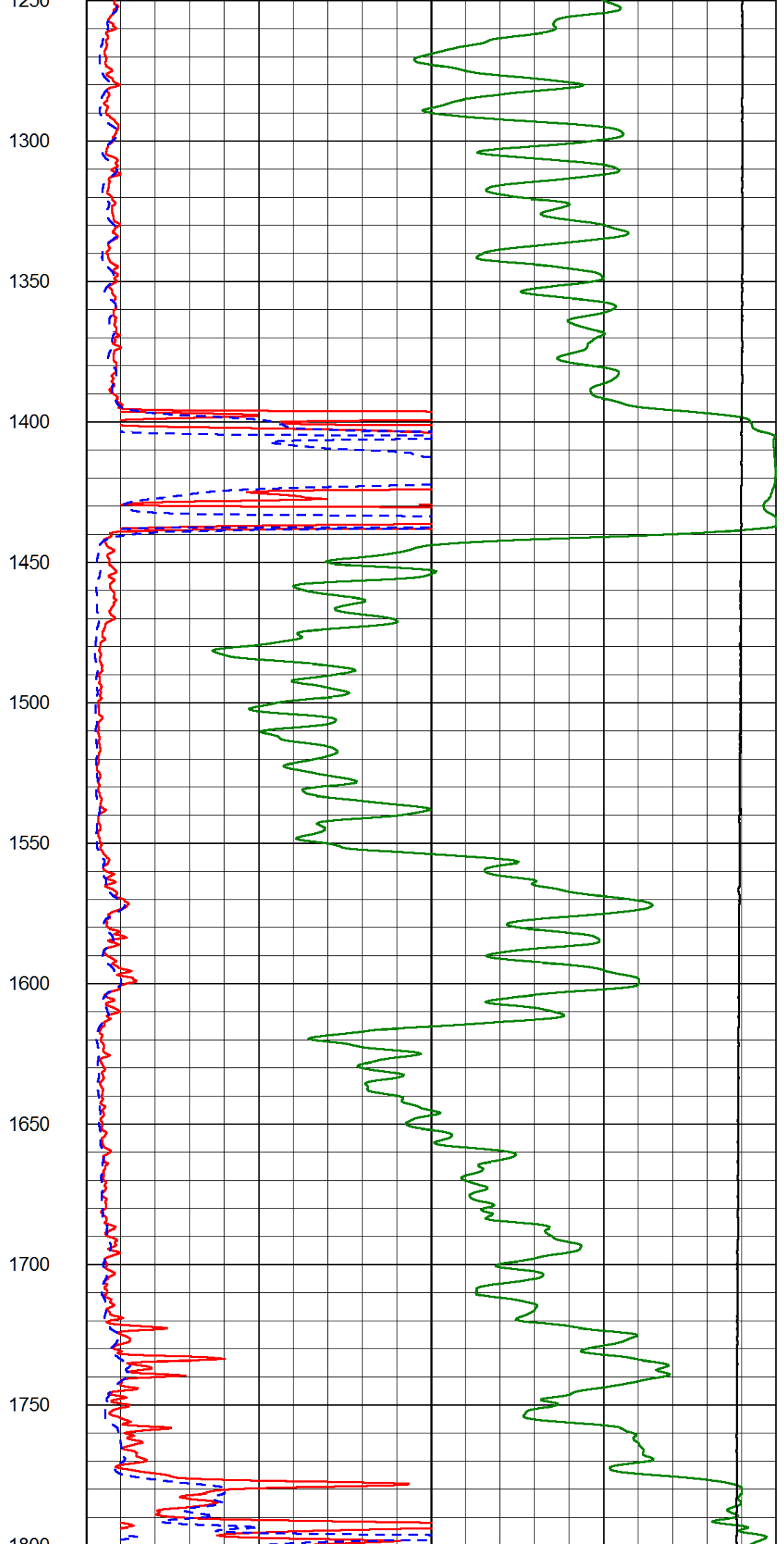
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

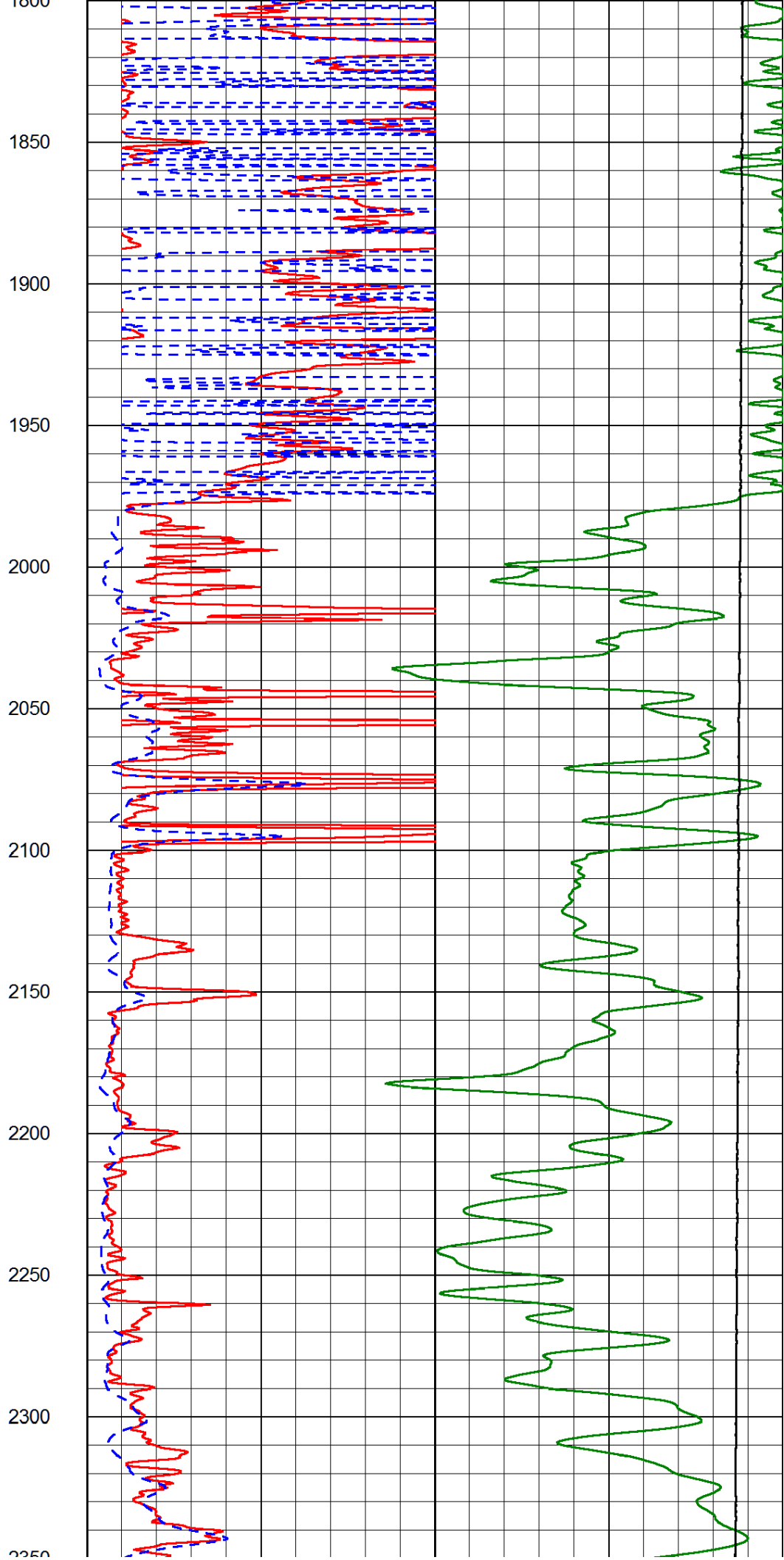
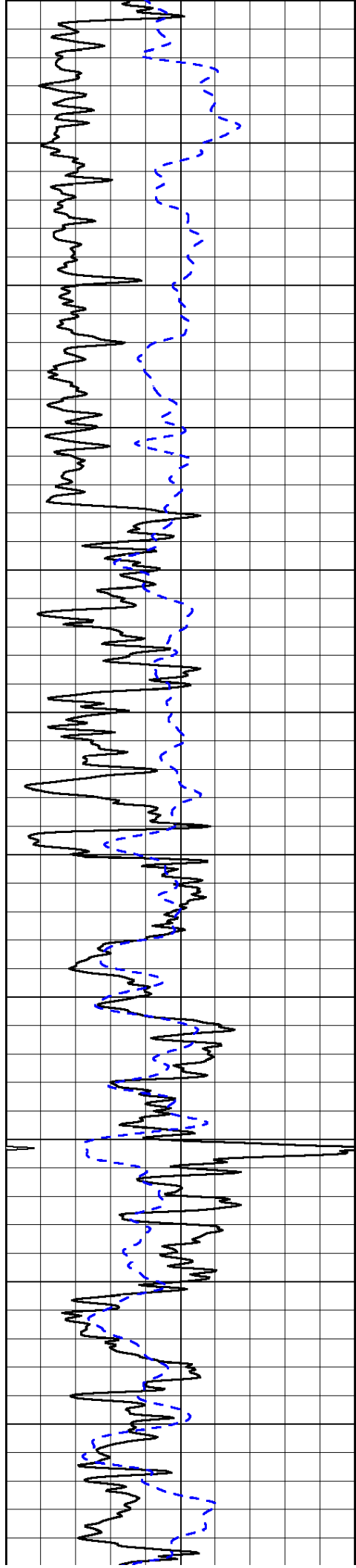
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

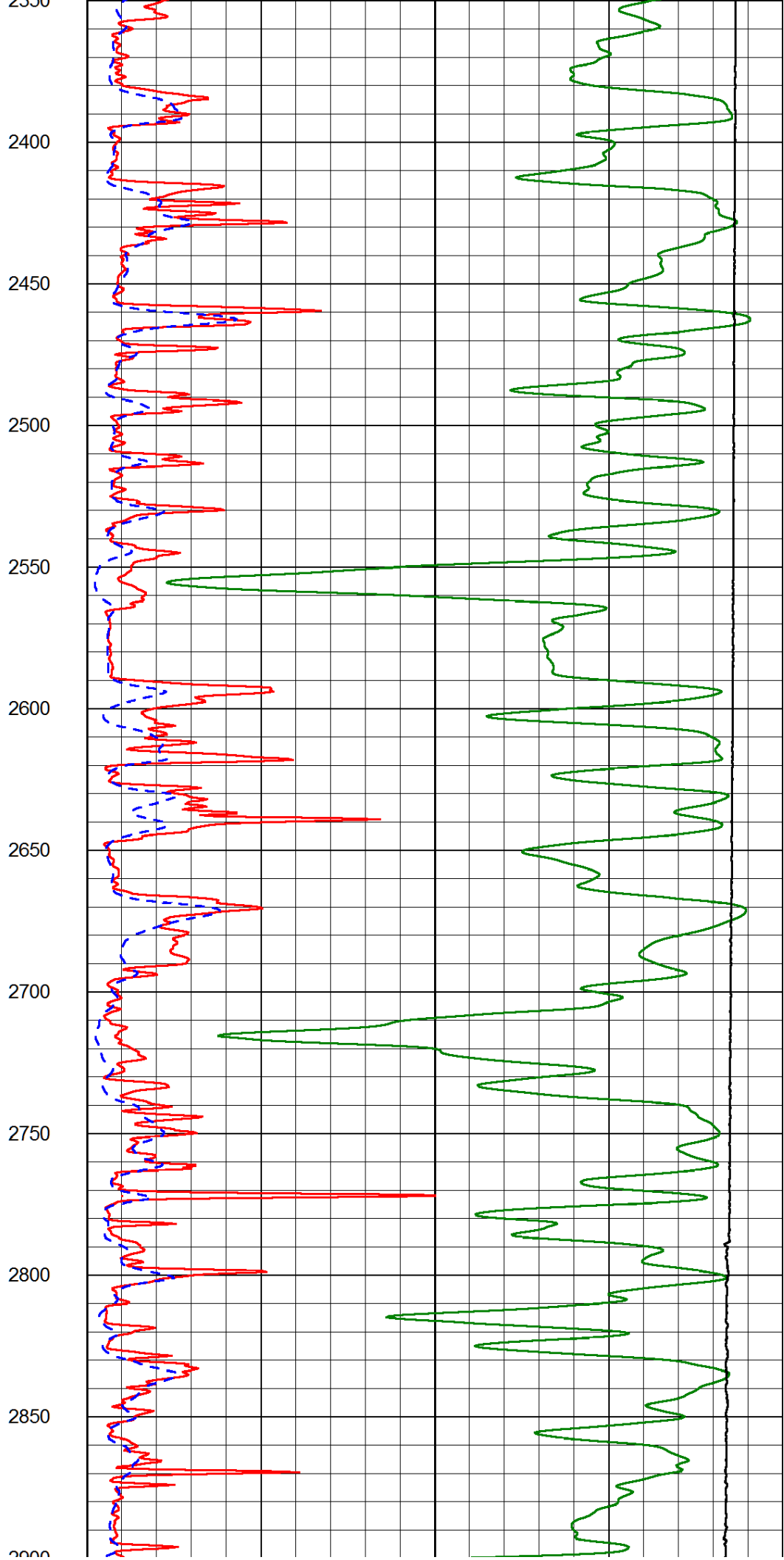
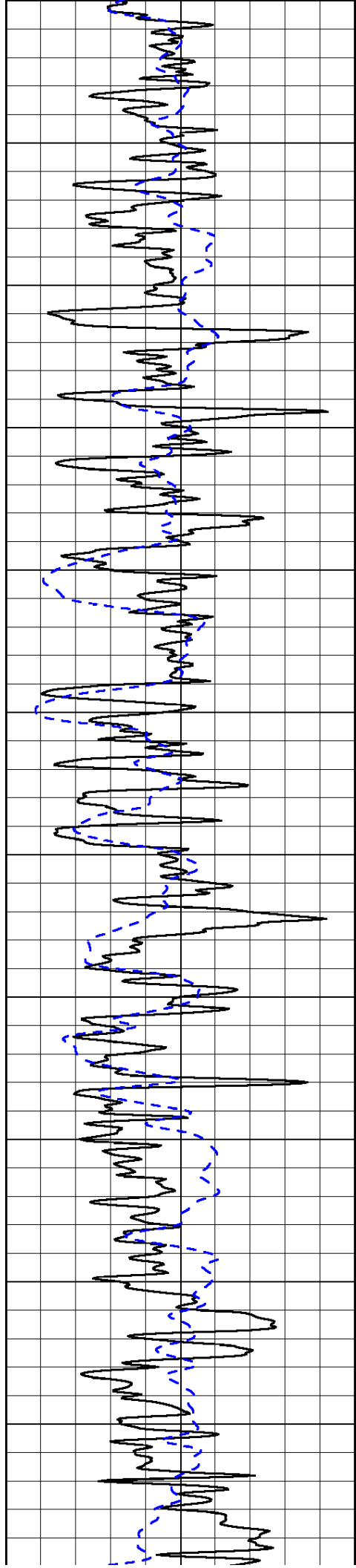


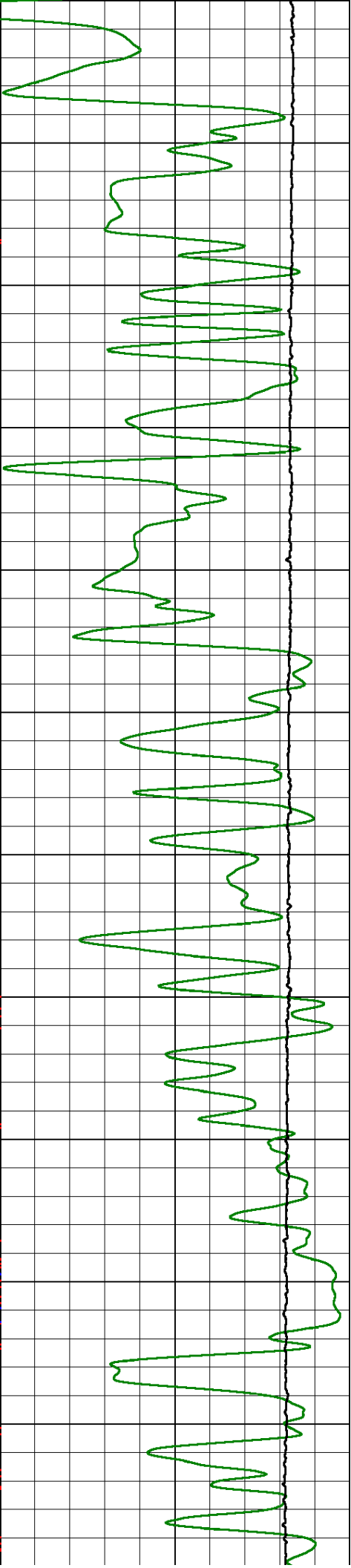
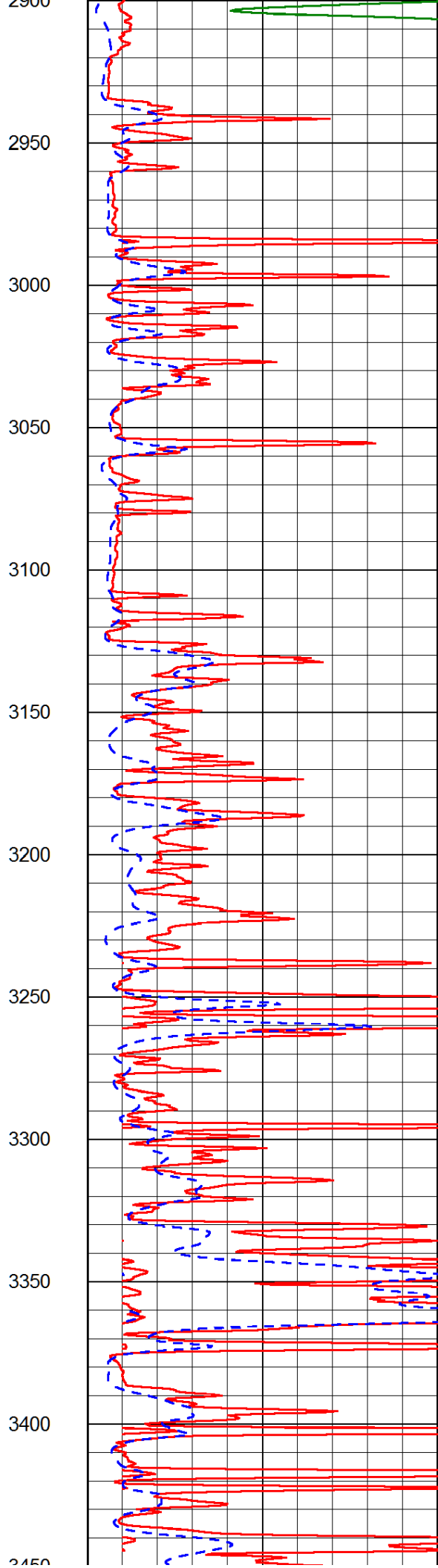
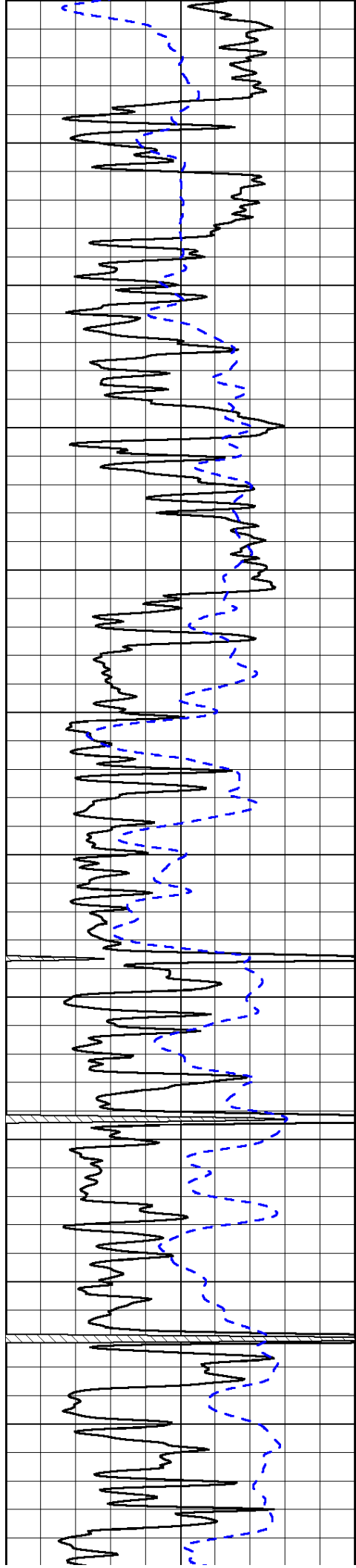
700
750
800
850
900
950
1000
1050
1100
1150
1200
1250

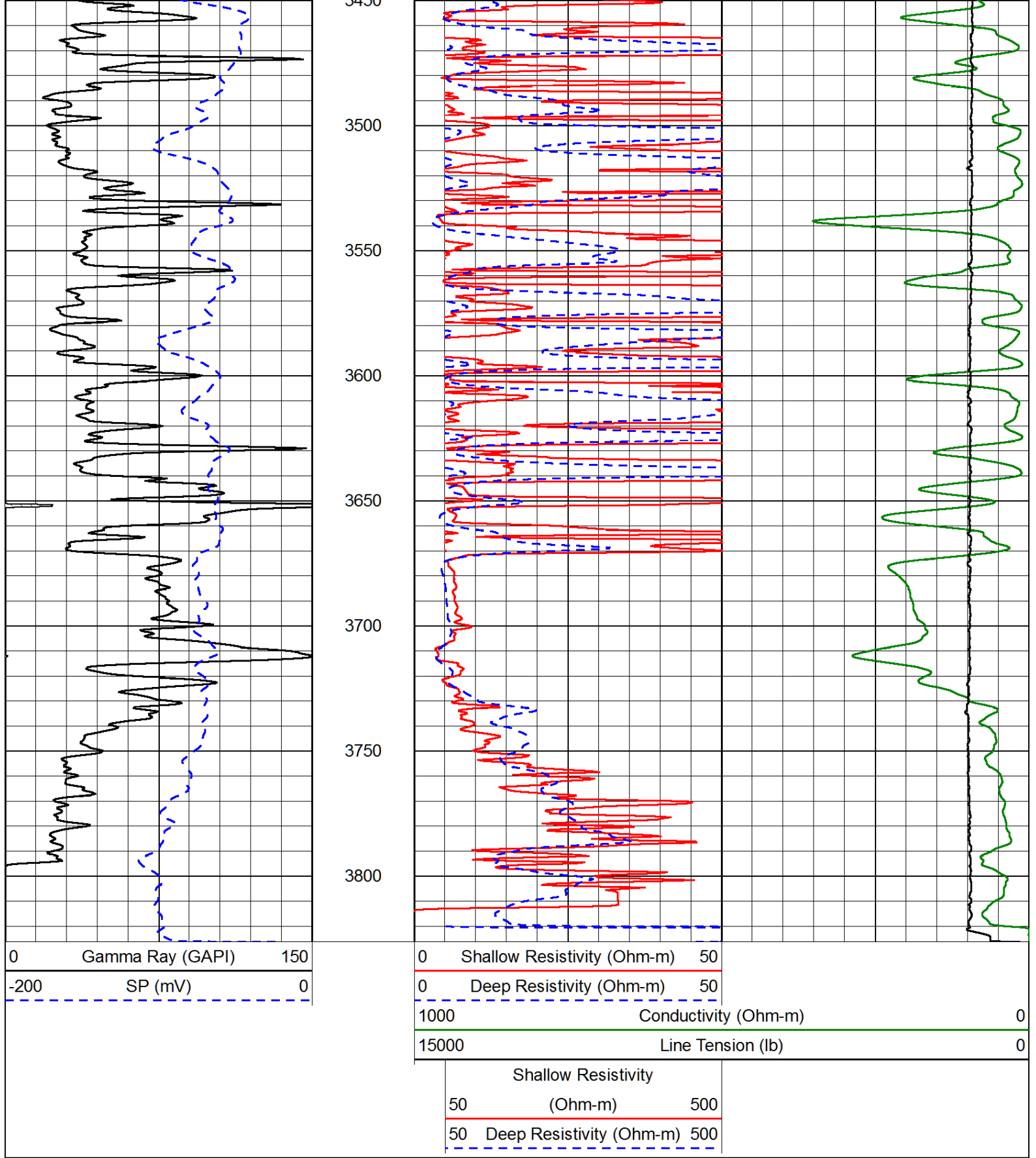








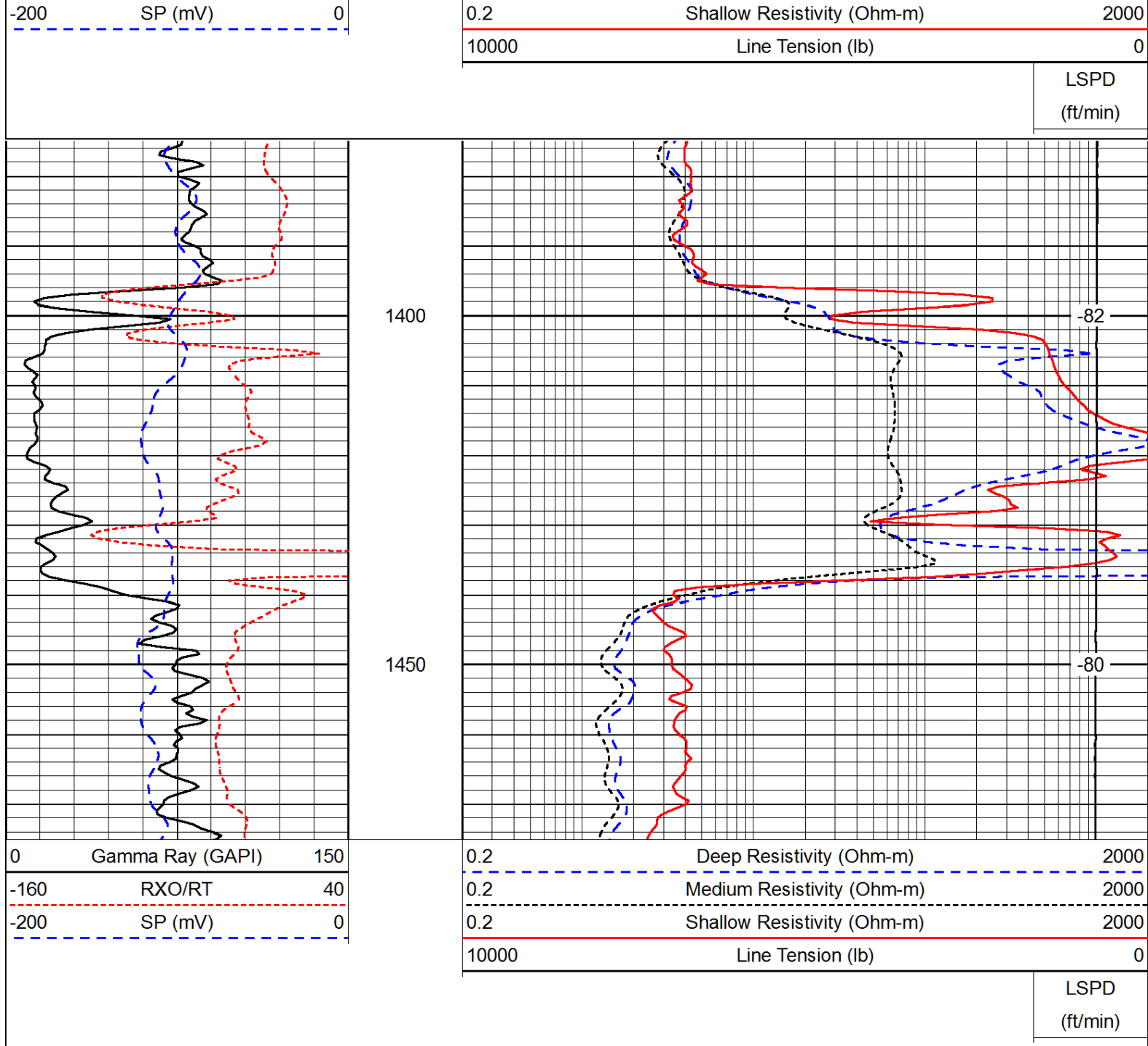




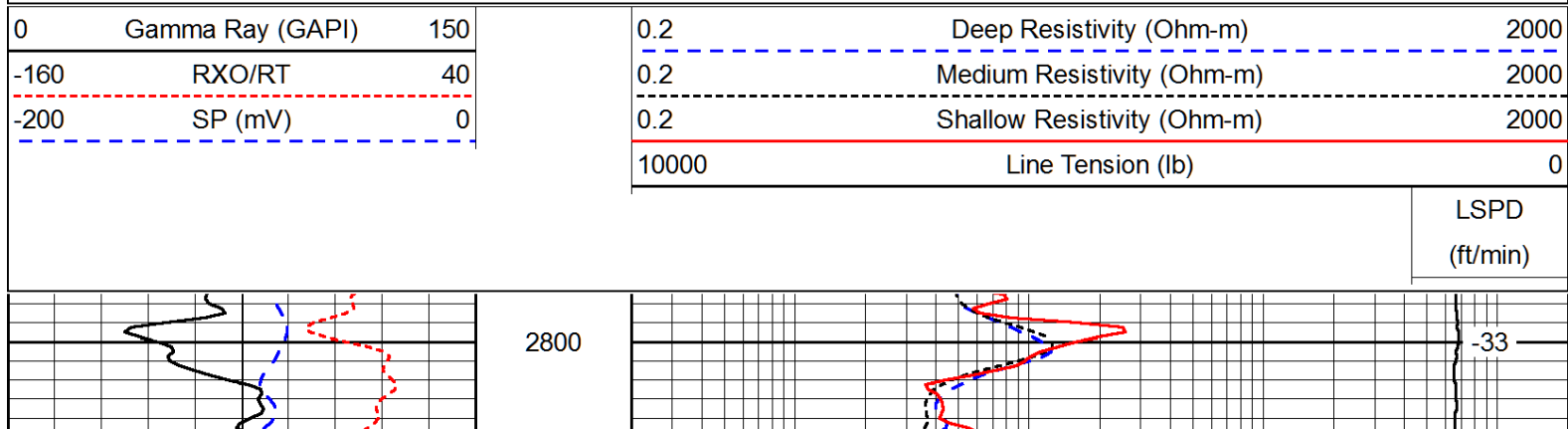
Database File:	messengerhd.db
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Presentation Format:	dil
Dataset Creation:	Tue Oct 08 01:11:56 2013
Charted by:	Depth in Feet scaled 1:240

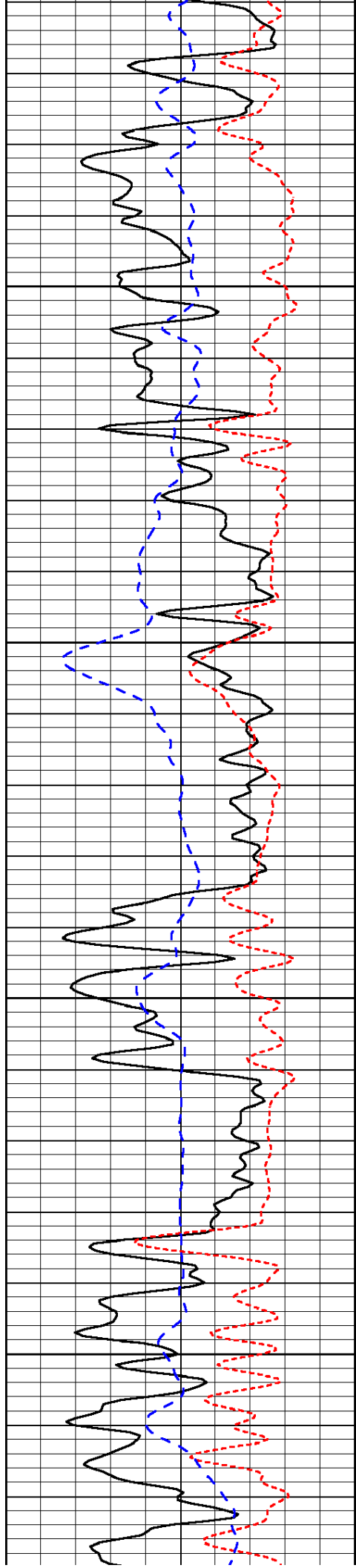
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000



Database File: messengerhd.db
Dataset Pathname: dil/messstk
Presentation Format: dil
Dataset Creation: Tue Oct 08 01:11:56 2013
Charted by: Depth in Feet scaled 1:240



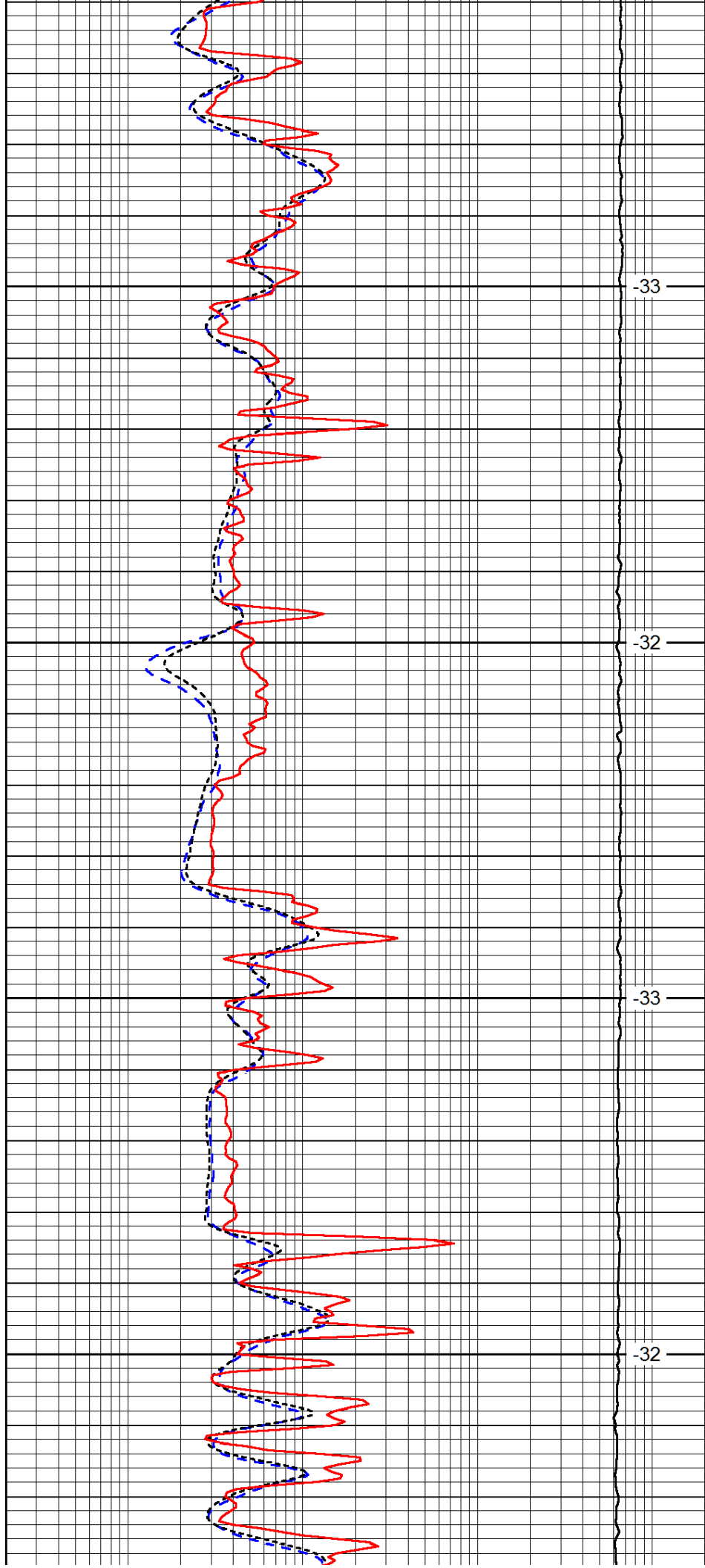


2850

2900

2950

3000

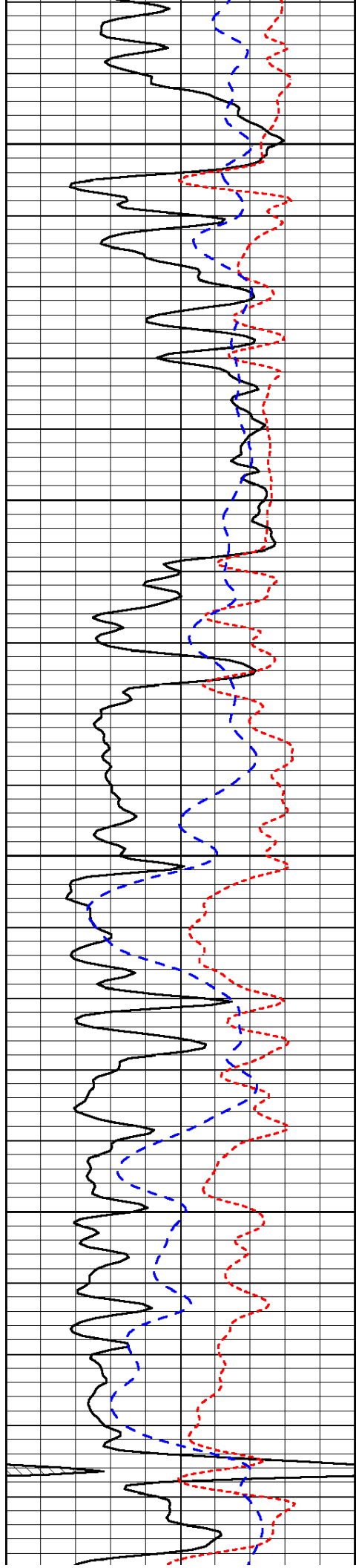


-33

-32

-33

-32



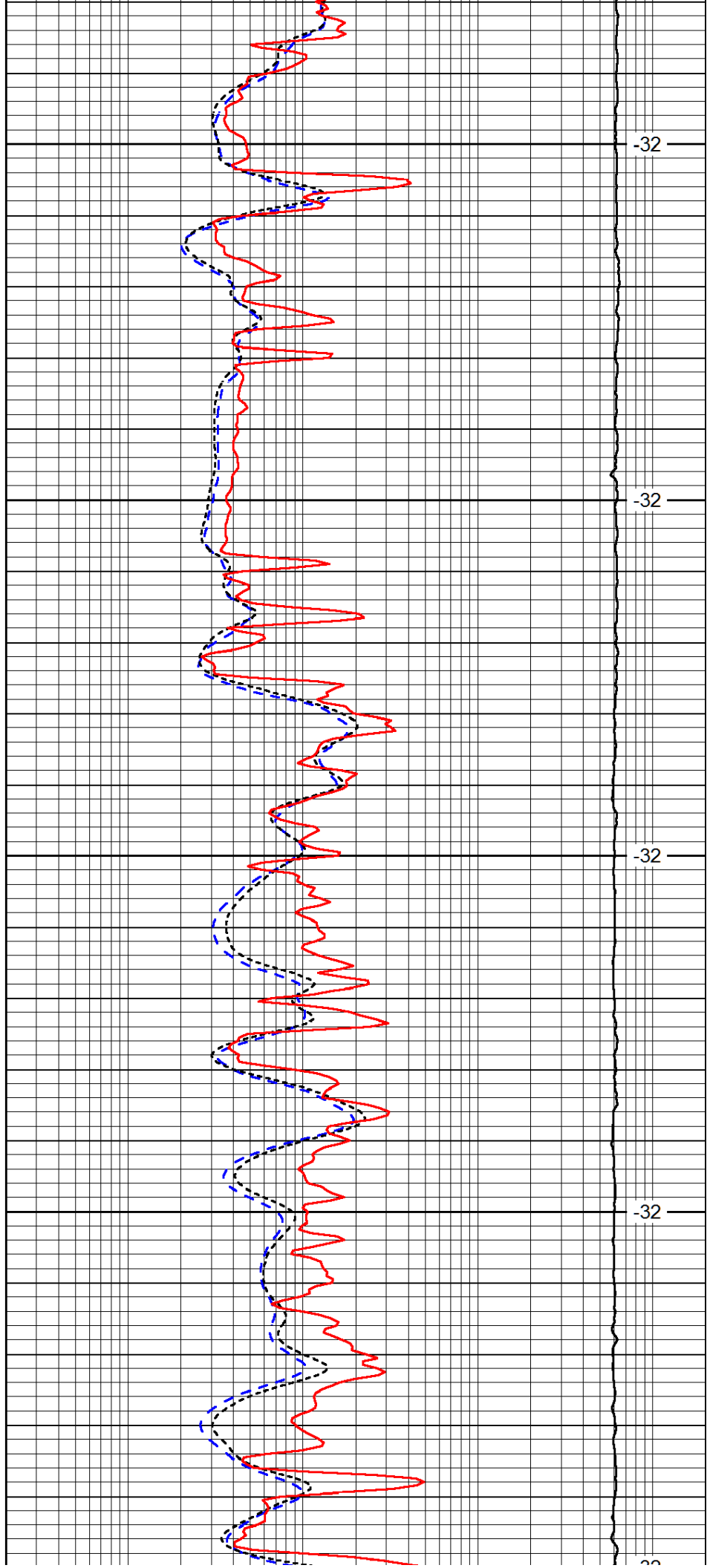
3050

3100

3150

3200

3250



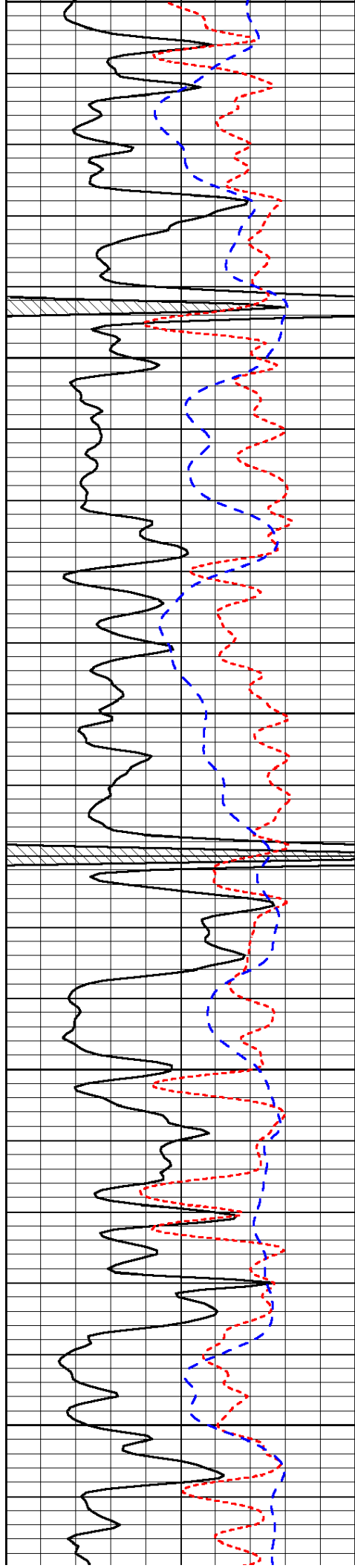
-32

-32

-32

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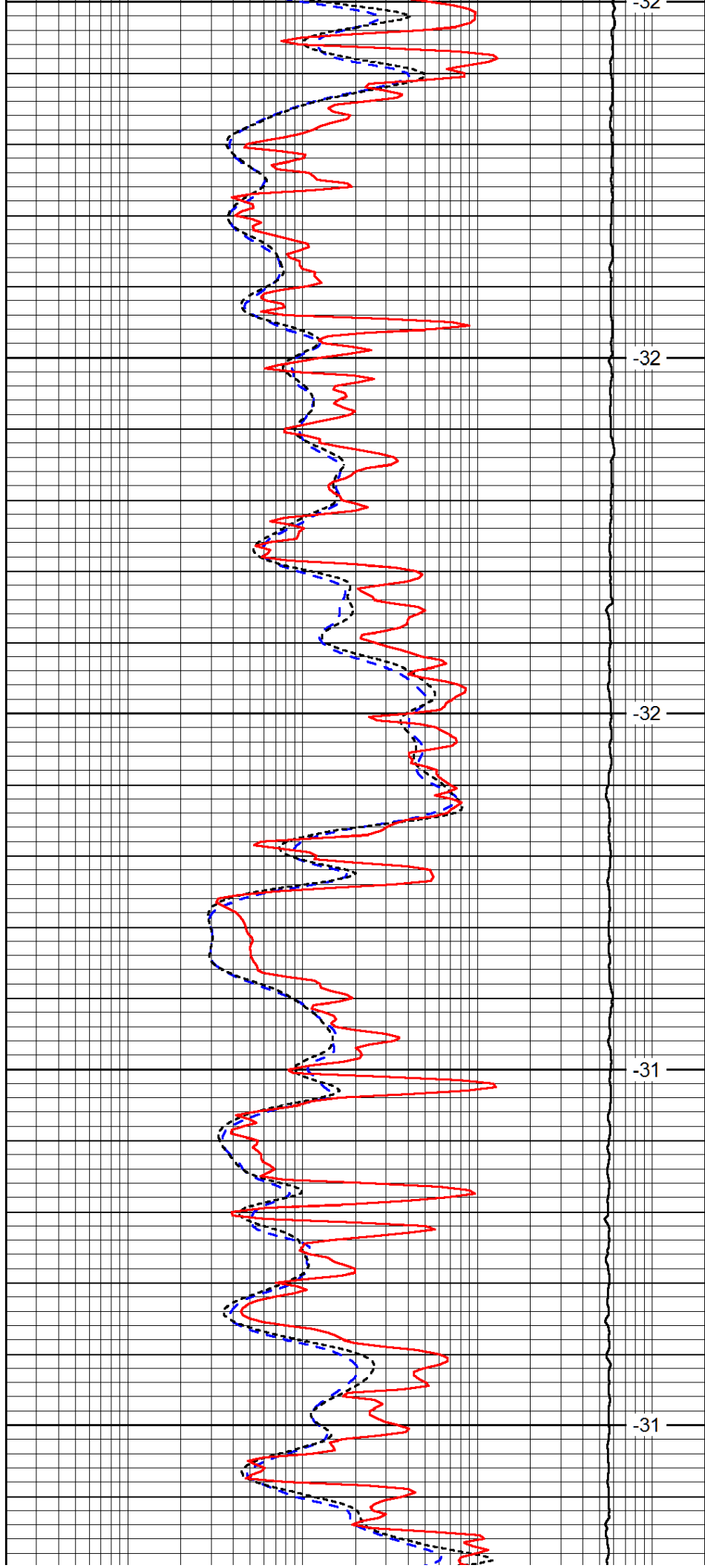
3250

3300

3350

3400

3450



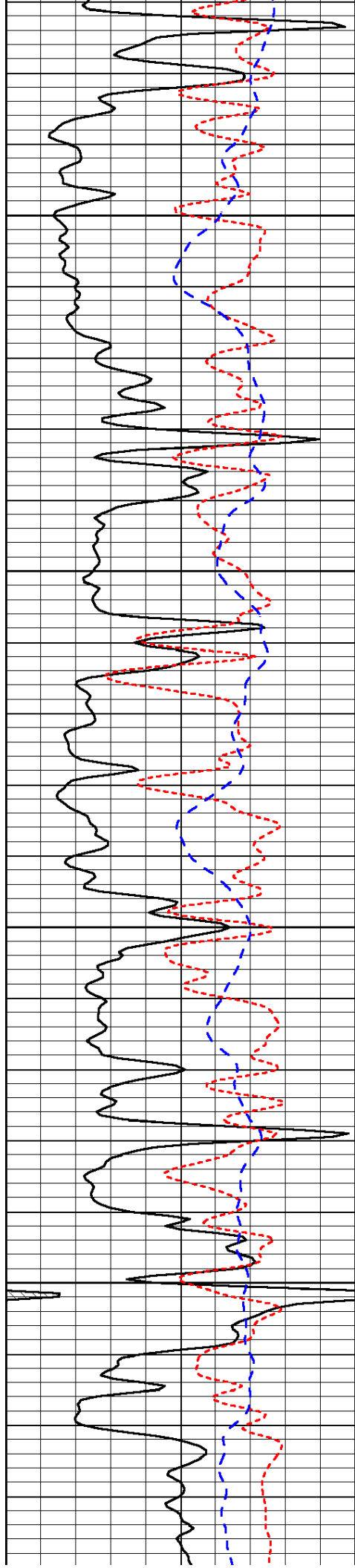
-32

-32

-32

-31

-31

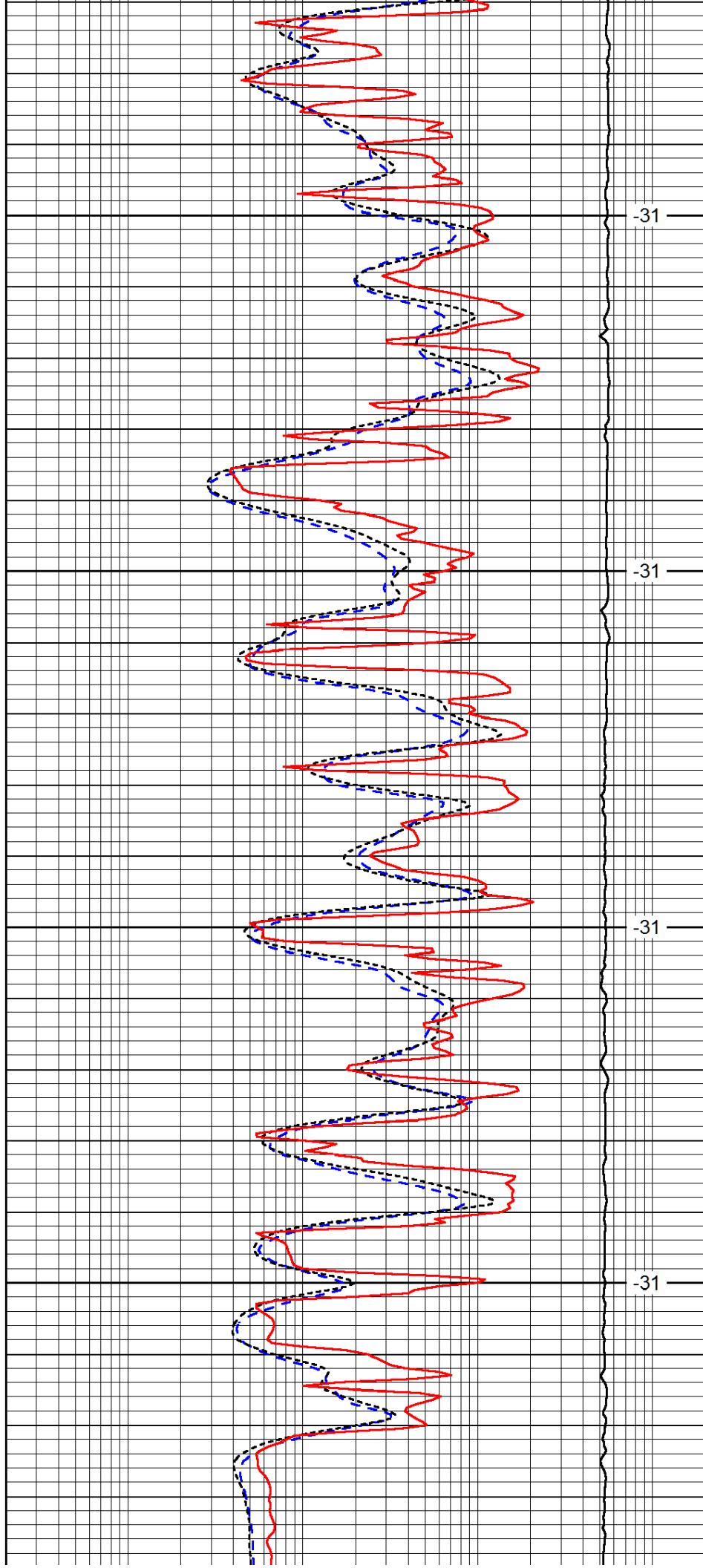


3500

3550

3600

3650

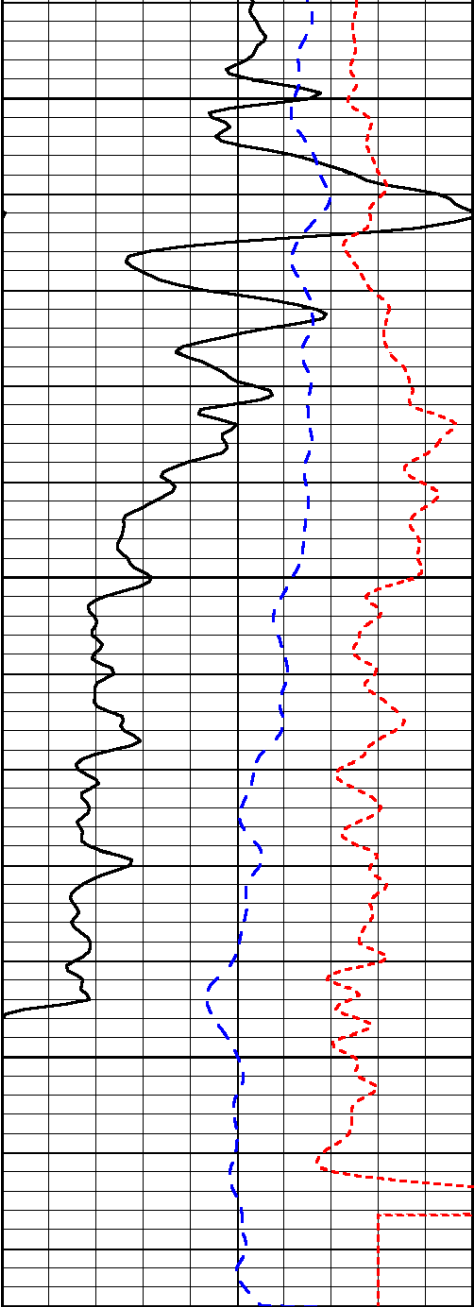


-31

-31

-31

-31

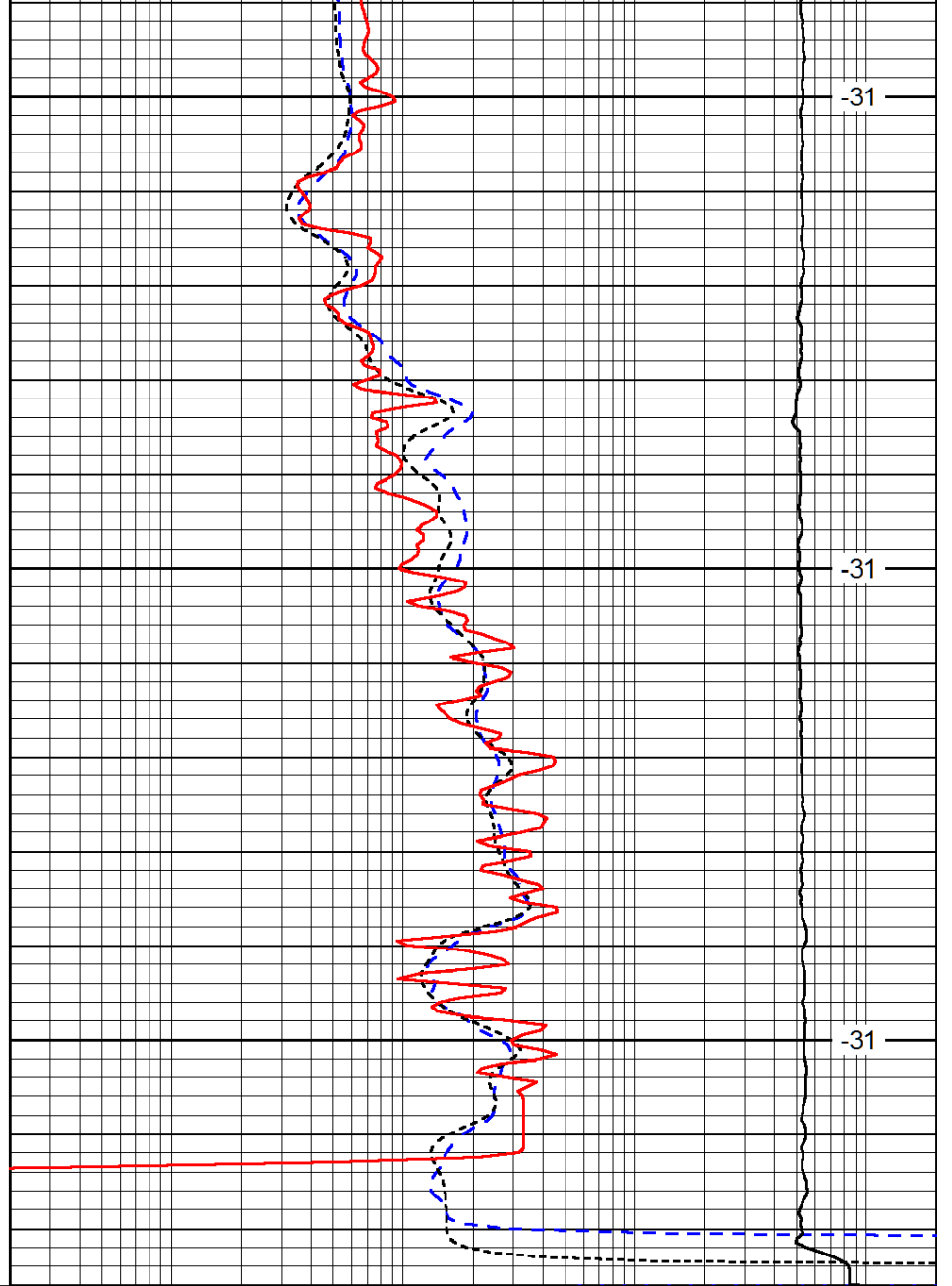


0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

3700

3750

3800



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)