



Dual Induction Log

Pioneer Energy Services

API No.	Company N-10 Exploration, LLC Well Medicine River Ranch 'D' No.11 Field Landis County Barber State Kansas			
15-007-23,007-00-00	Location	E/2 NW/NE 660' FNL & 1650' FEL		Other Services CNL/CDL
	Sec: 10	Twp: 34S	Rge: 11W	
Permanent Datum	Ground Level	Elevation 1341		
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum		K.B. 1351
Drilling Measured From	Kelly Bushing			D.F. 1341
Date	4/25/2013			
Run Number	One			
Depth Driller	4855			
Depth Logger	4851			
Bottom Logged Interval	4850			
Top Log Interval	250			
Casing Driller	8.625 @ 266			
Casing Logger	266			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	4,000			
Density / Viscosity	9.5 50			
pH / Fluid Loss	10.5 9.6			
Source of Sample	Flowline			
Rm @ Meas. Temp	.8 @ 48			
Rmf @ Meas. Temp	.6 @ 48			
Rmc @ Meas. Temp	1.08 @ 48			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.31 @ 125			
Operating Rig Time	3 Hours			
Max Rec. Temp. F	125			
Equipment Number	17			
Location	Hays			
Recorded By	C. Desaire			
Witnessed By	Tim Pierce			

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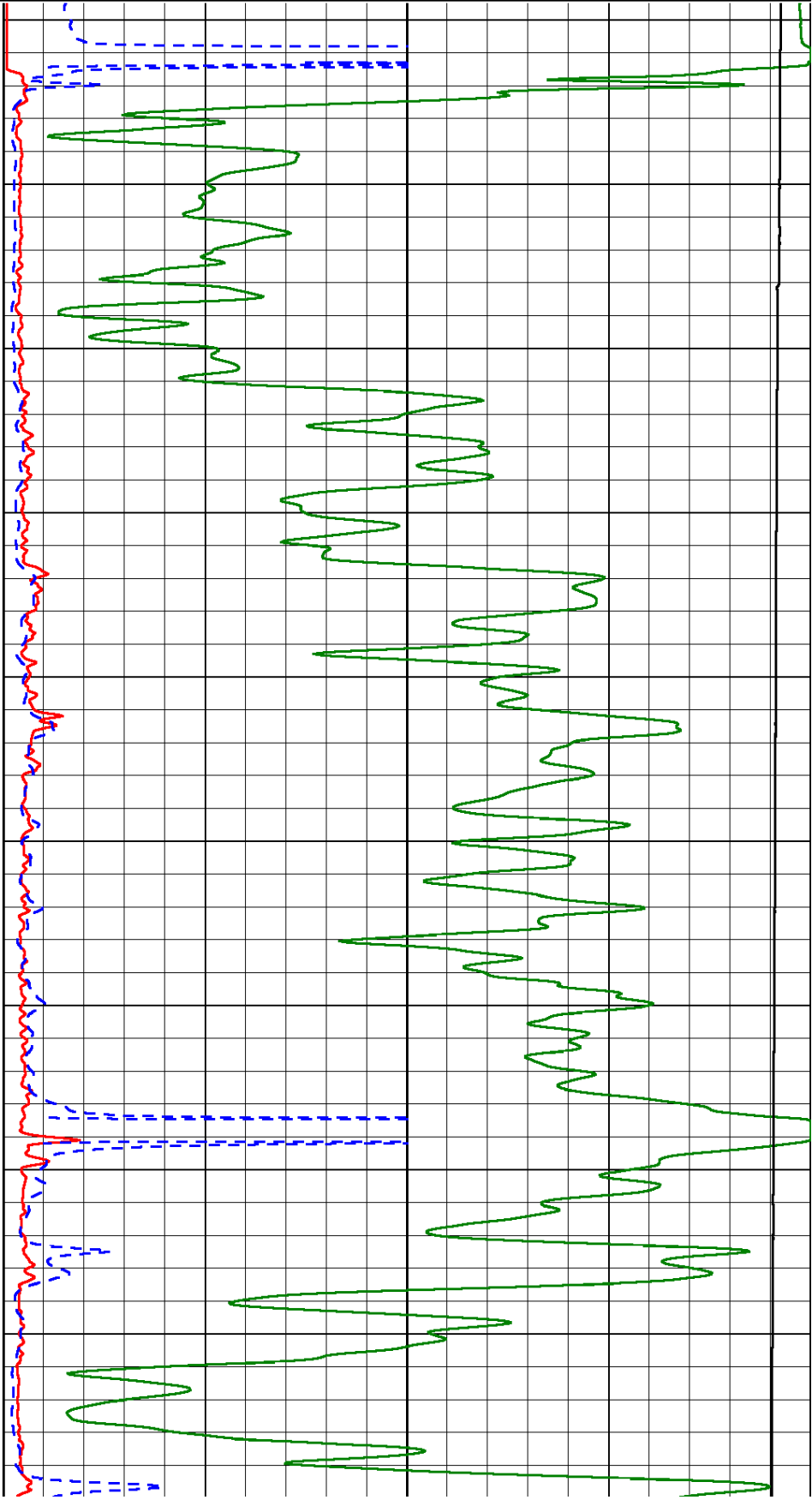
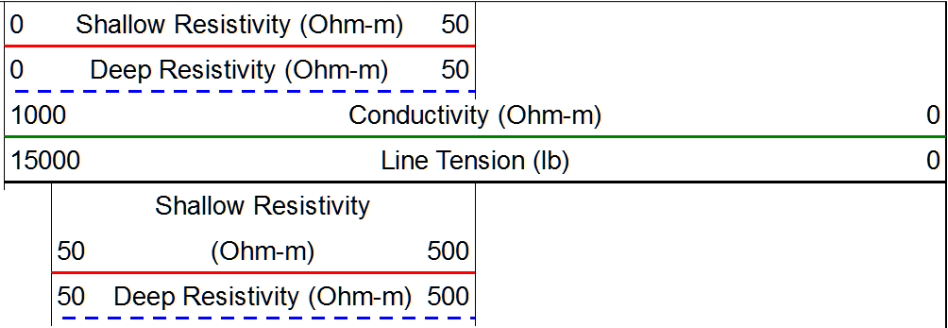
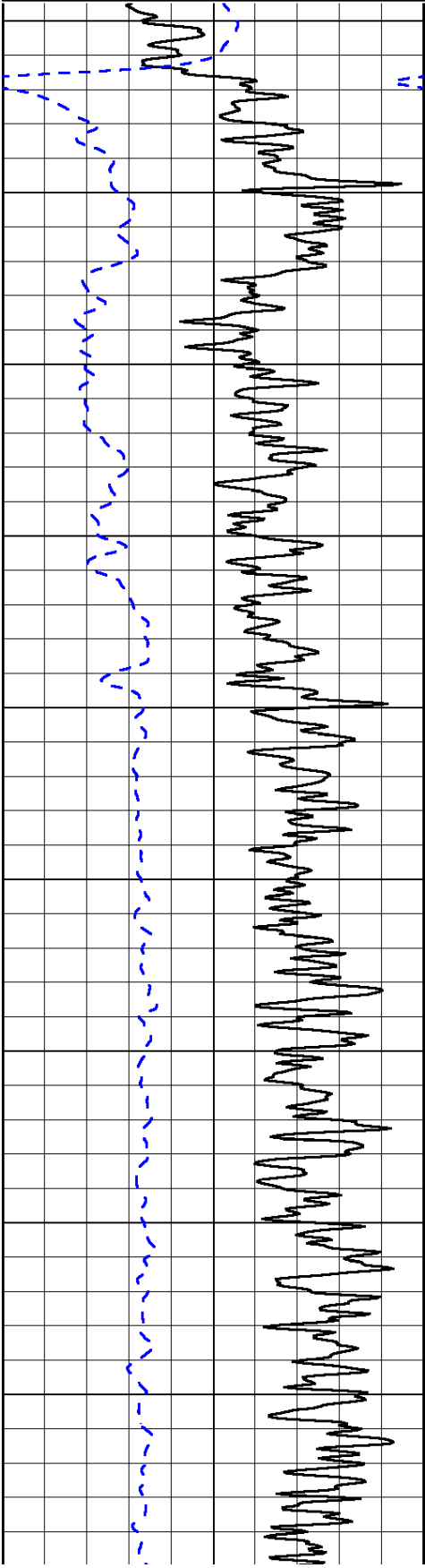
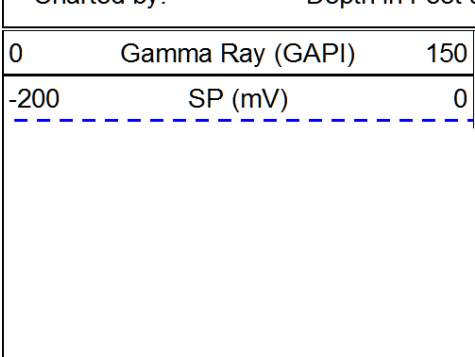
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

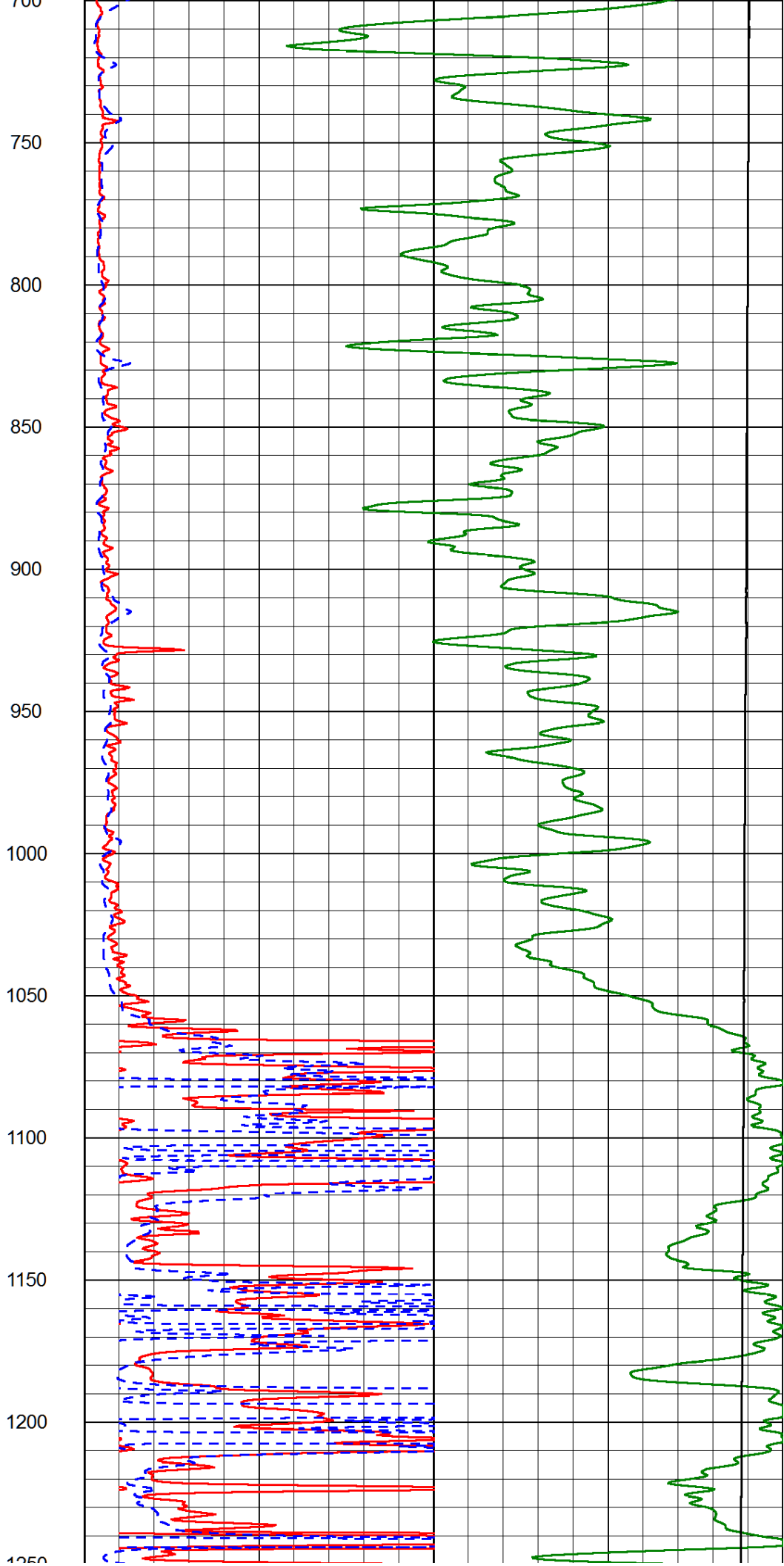
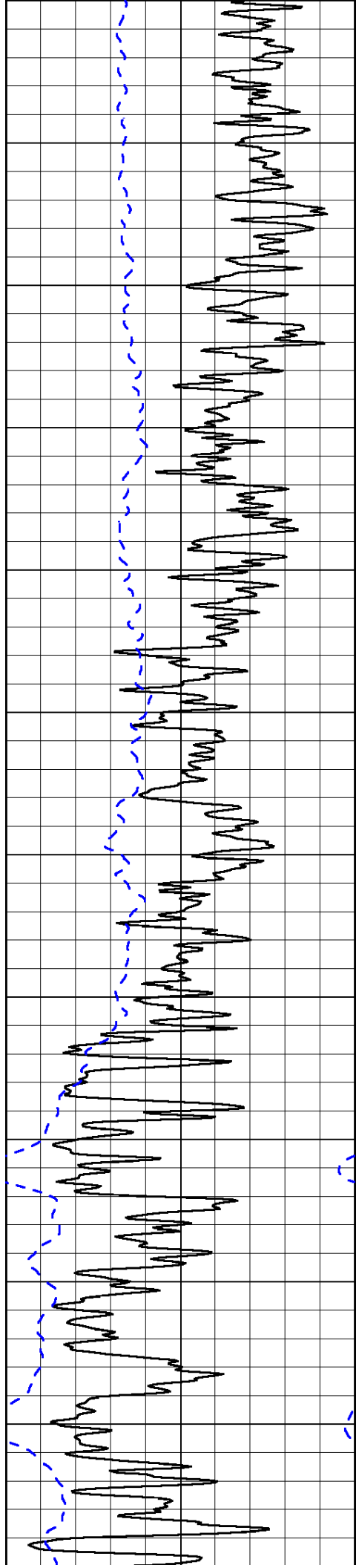
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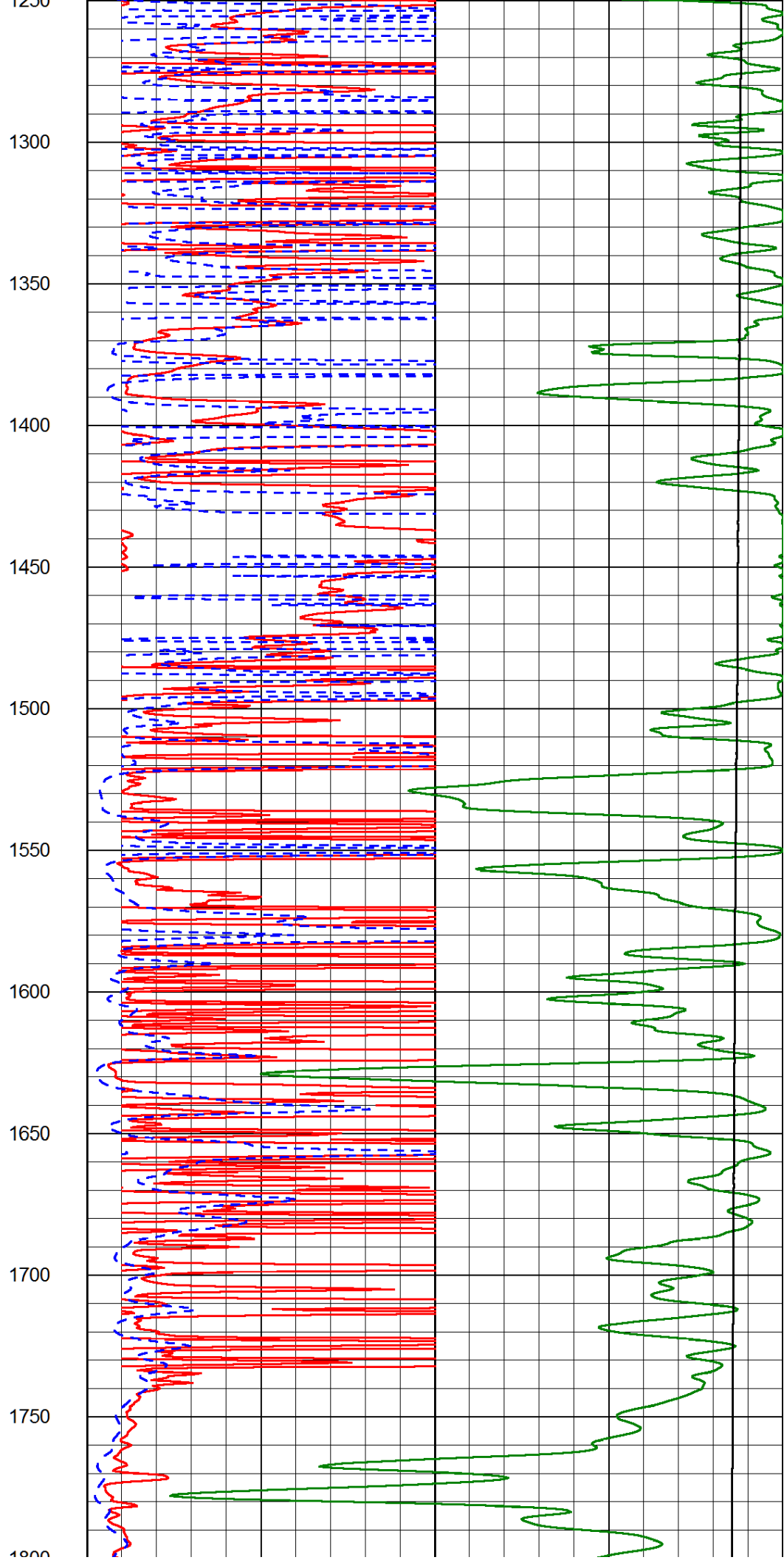
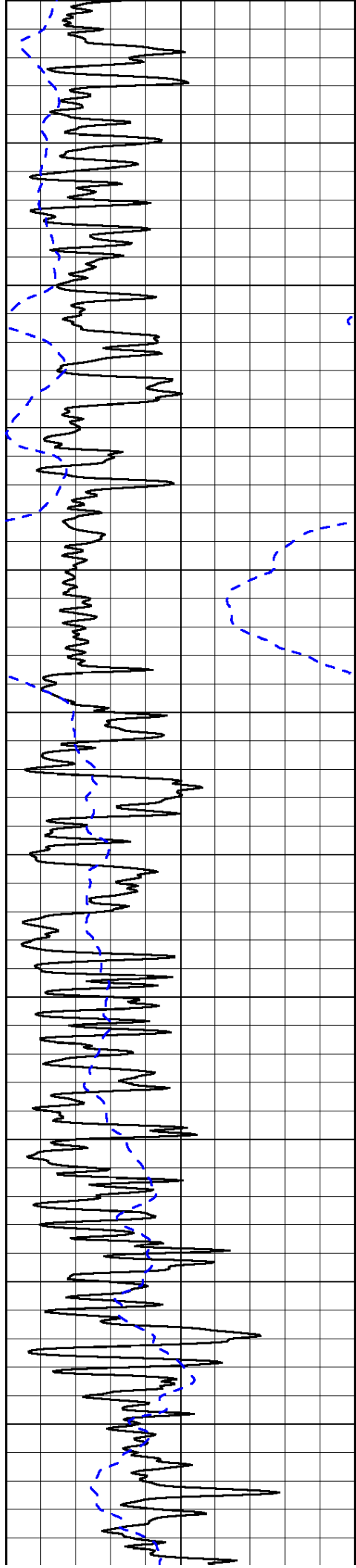
Thank you for using Log-Tech, Inc.
(785) 625-3858

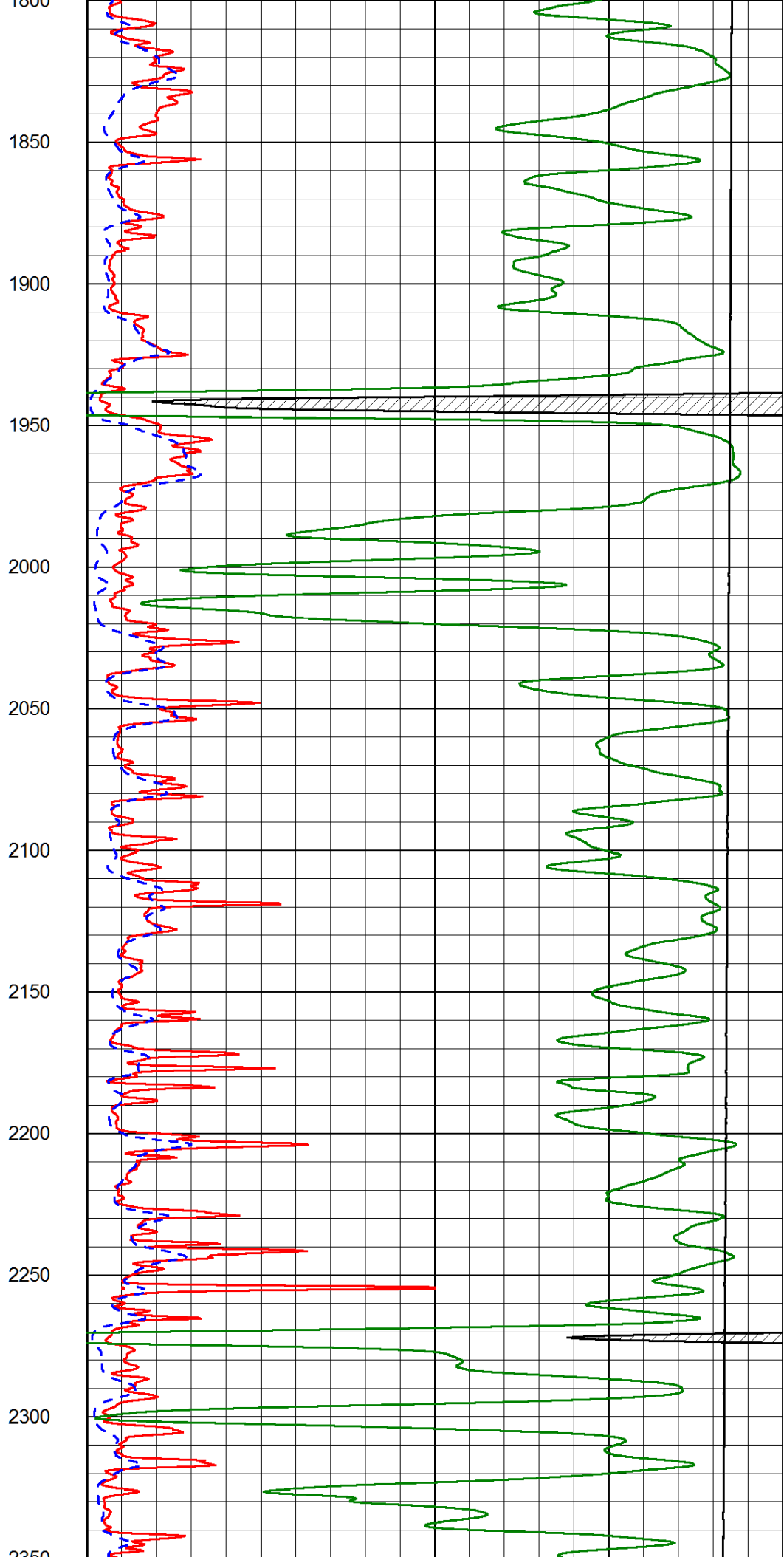
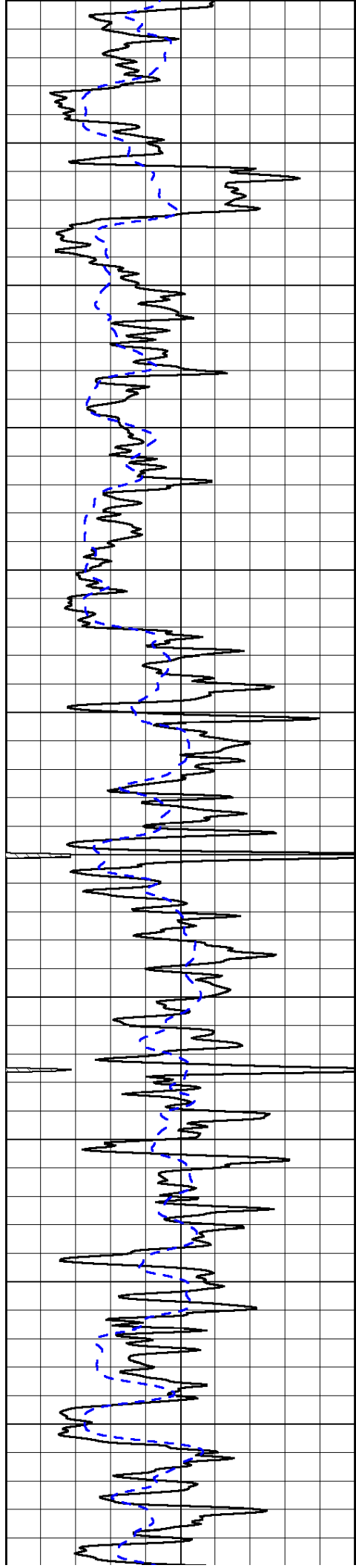
Medicine Lodge KS, S to Gerlane Rd,
E to Bethel Rd, 2 S to Scott Canyon Rd, W to Cattle Guard,
100yds W, N 3/4 (Left at both forks), NW Into

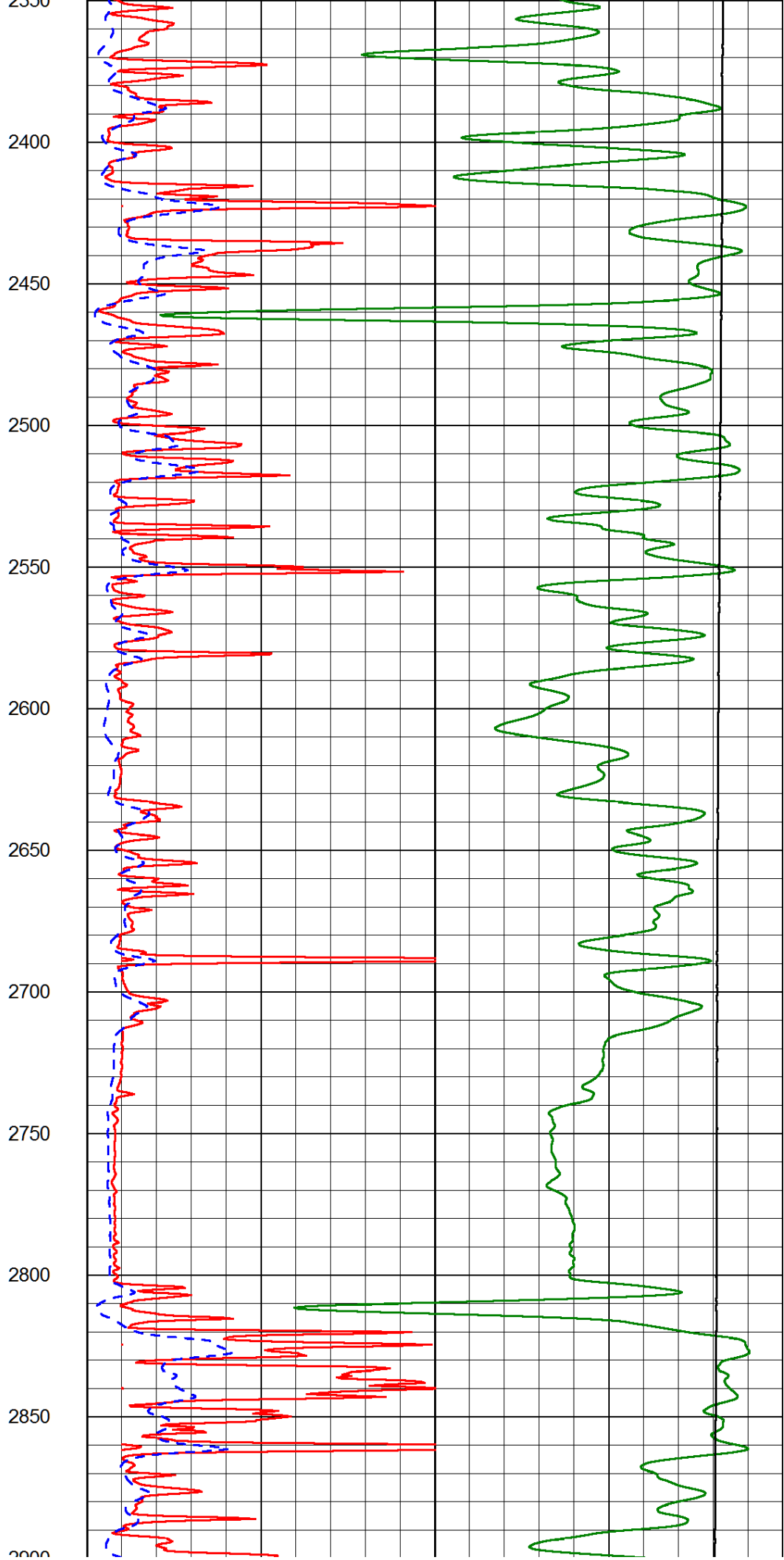
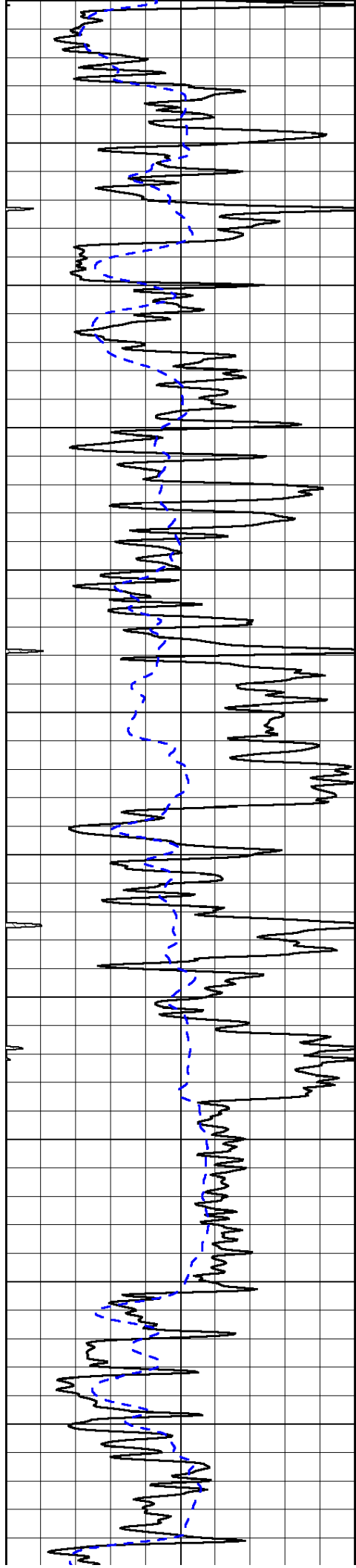
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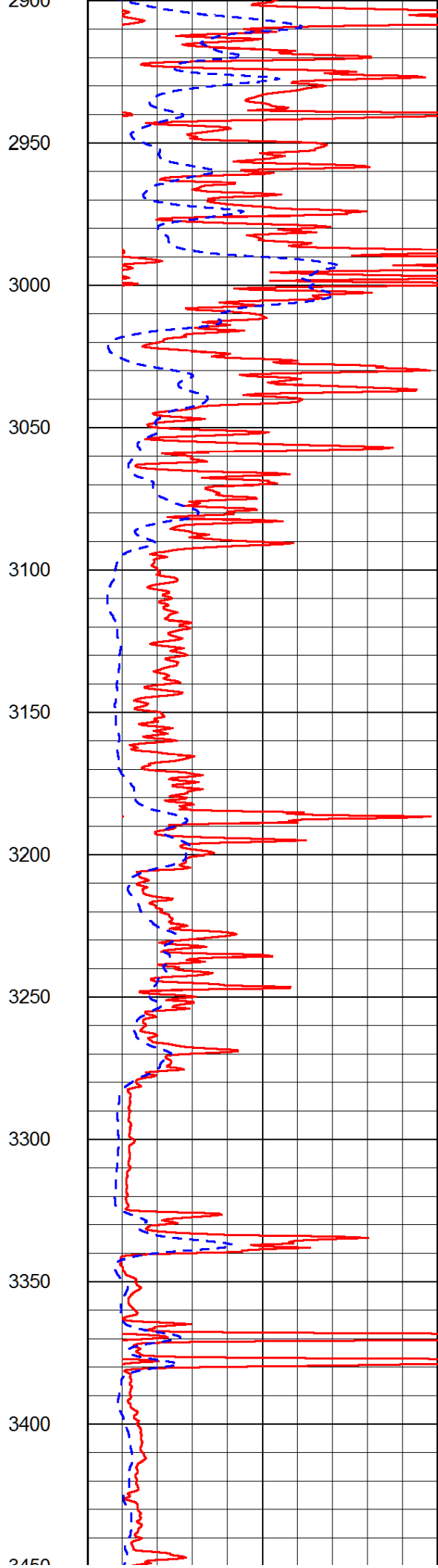
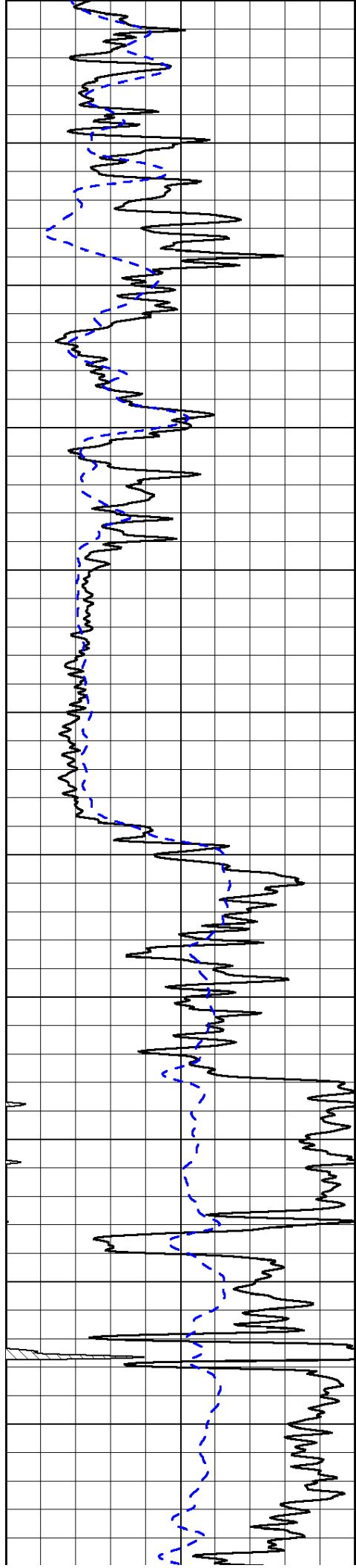


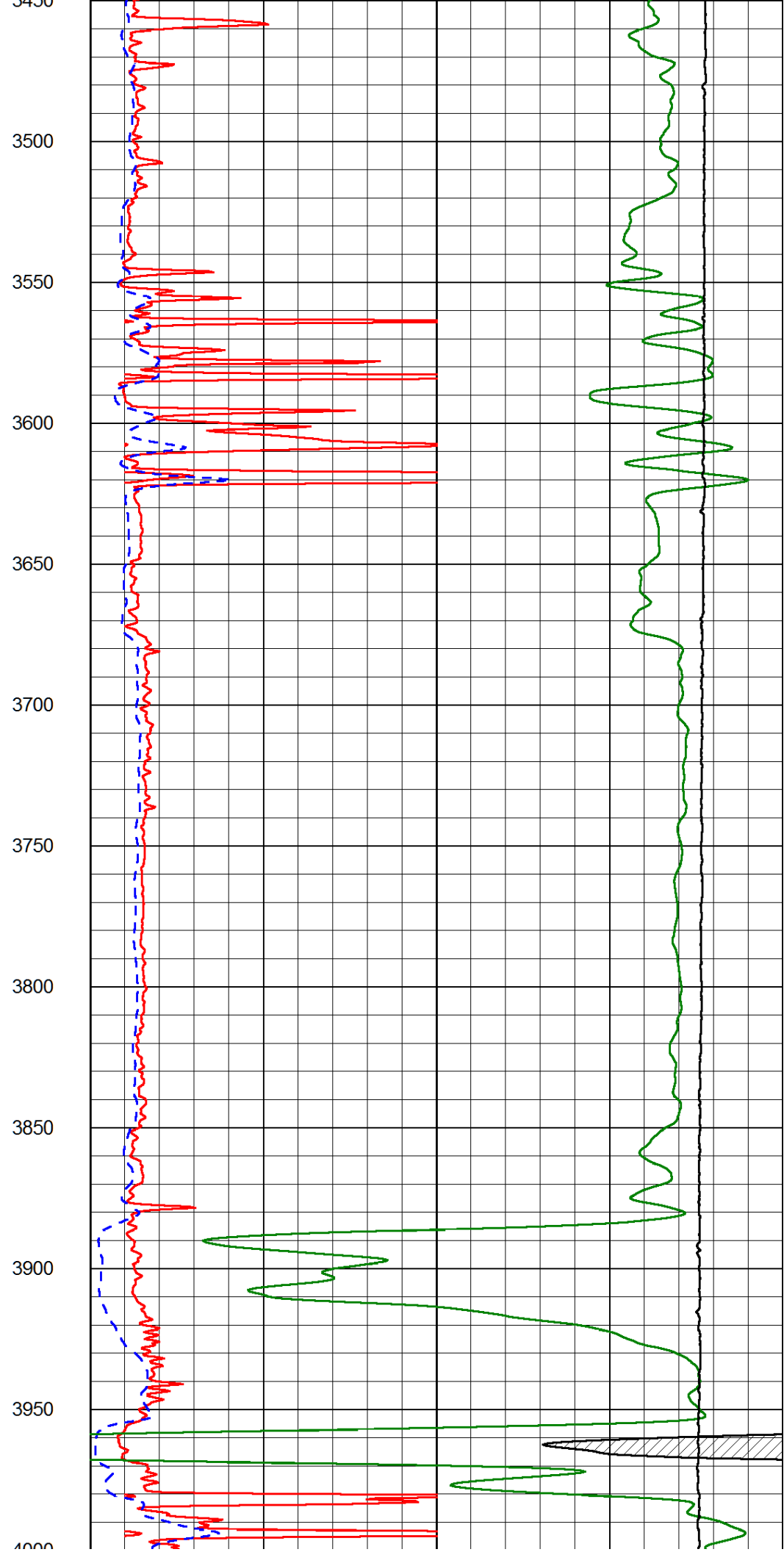
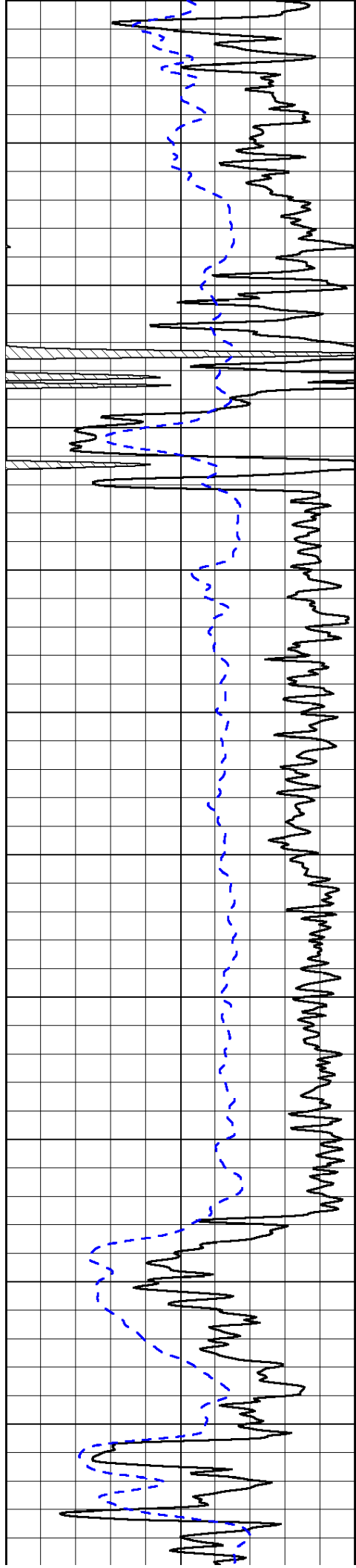


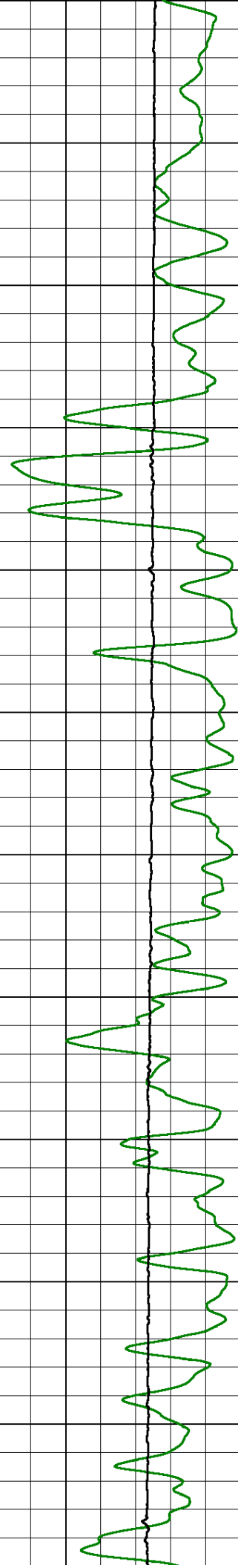
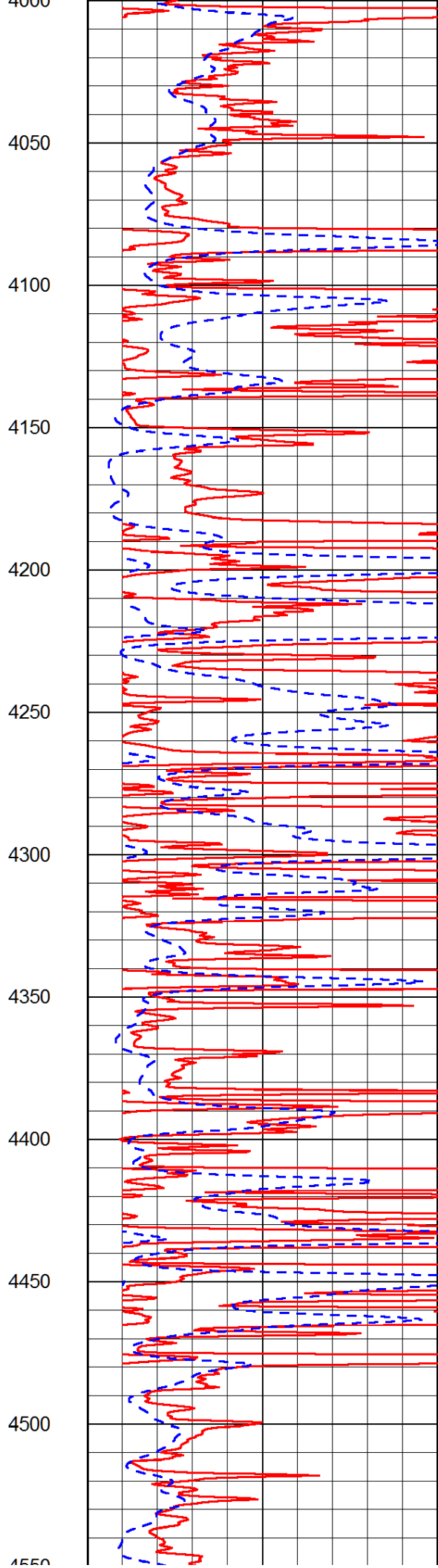
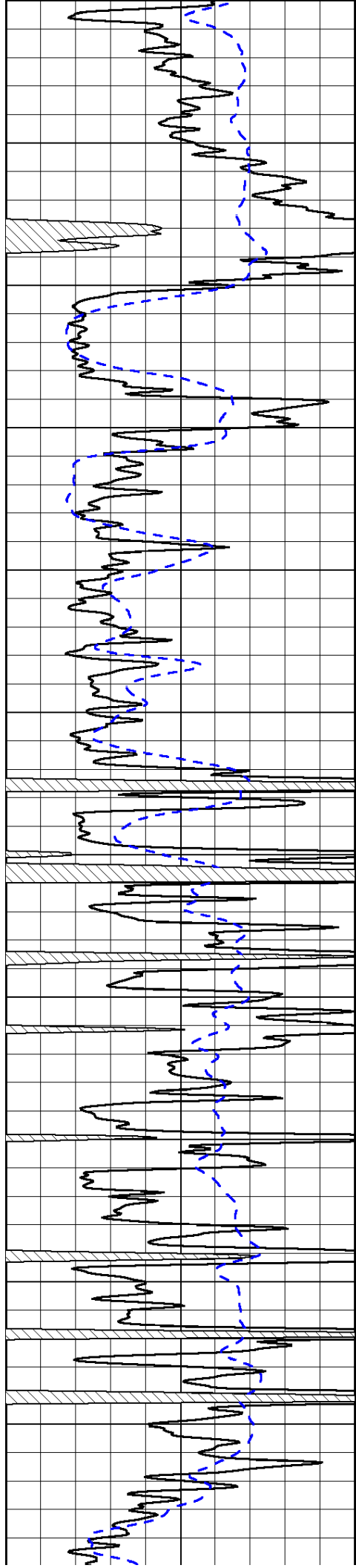


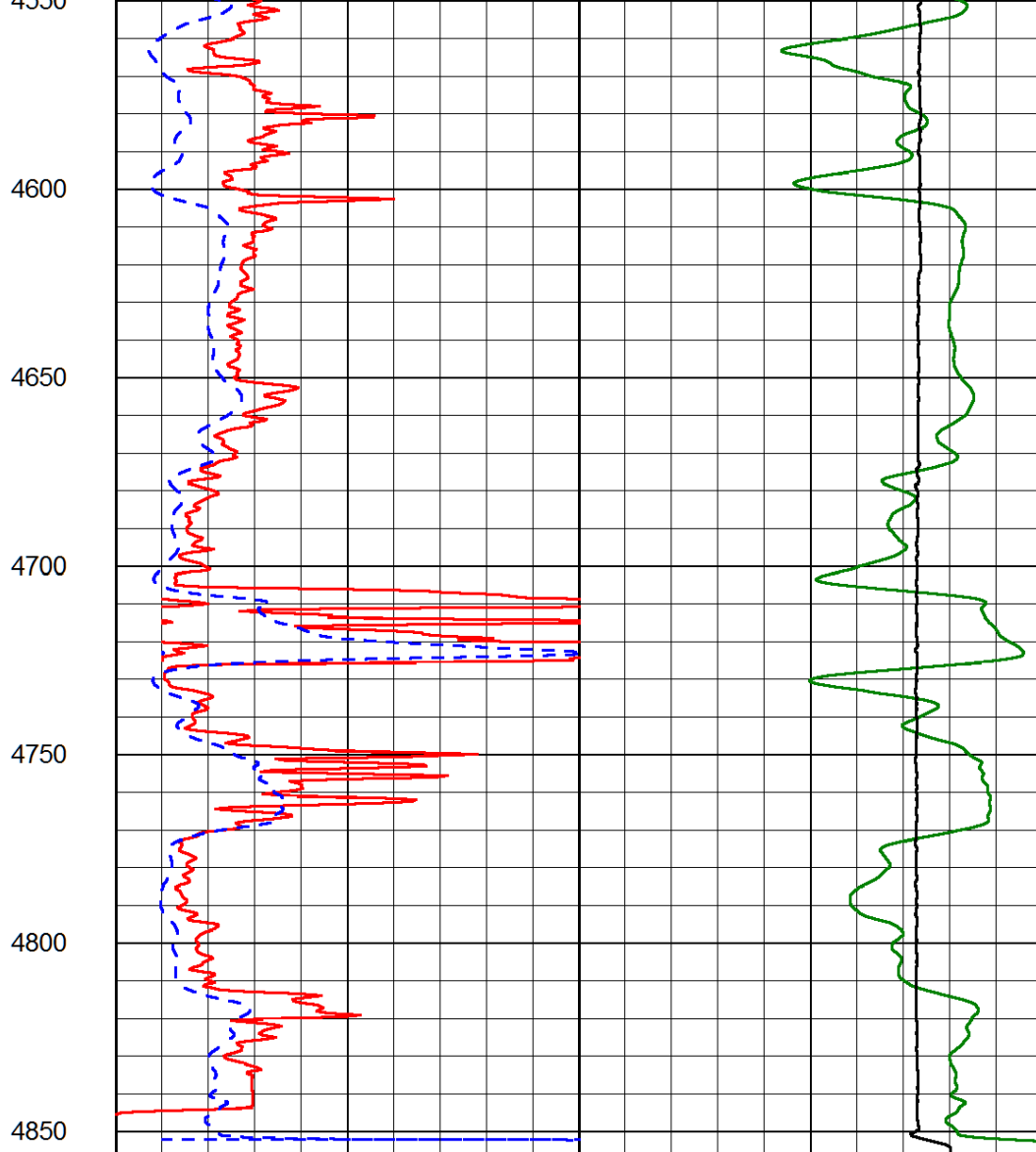
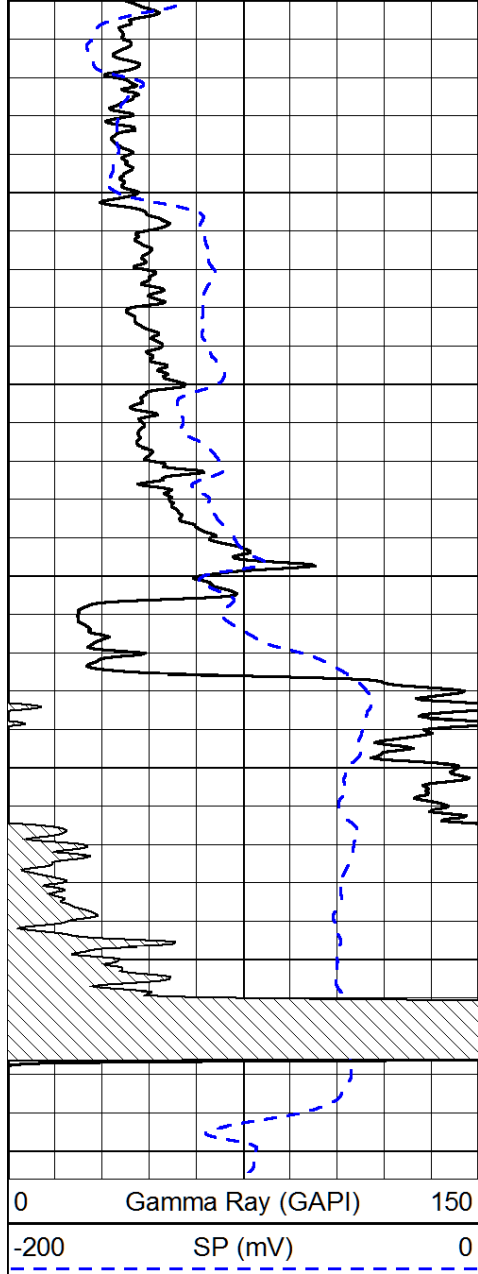










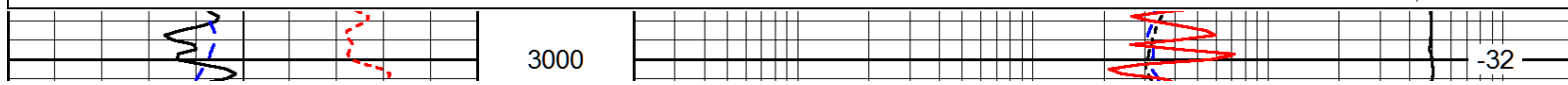


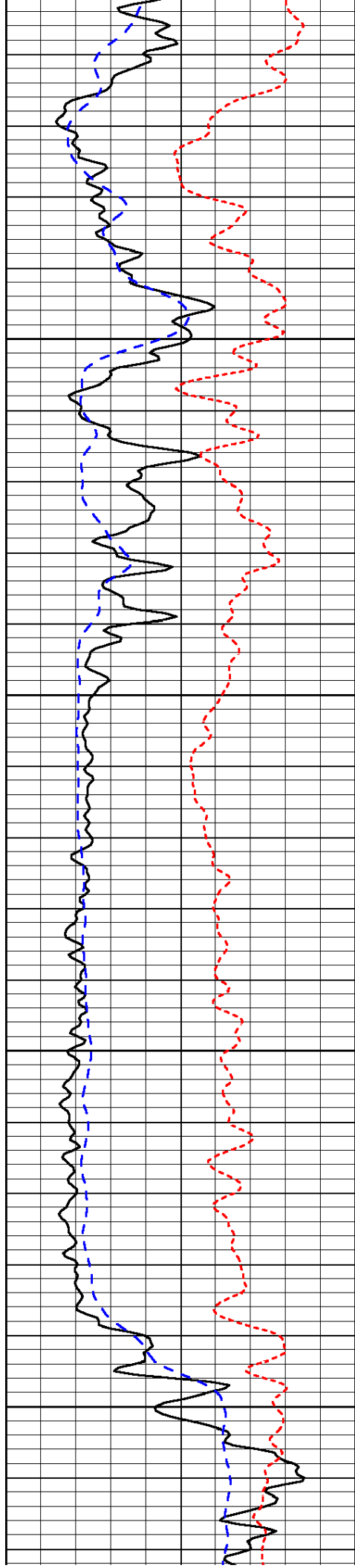
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-200	SP (mV)	0
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File: n10hd.db
 Dataset Pathname: dil/n10stk
 Presentation Format: dil
 Dataset Creation: Thu Apr 25 10:02:53 2013
 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)



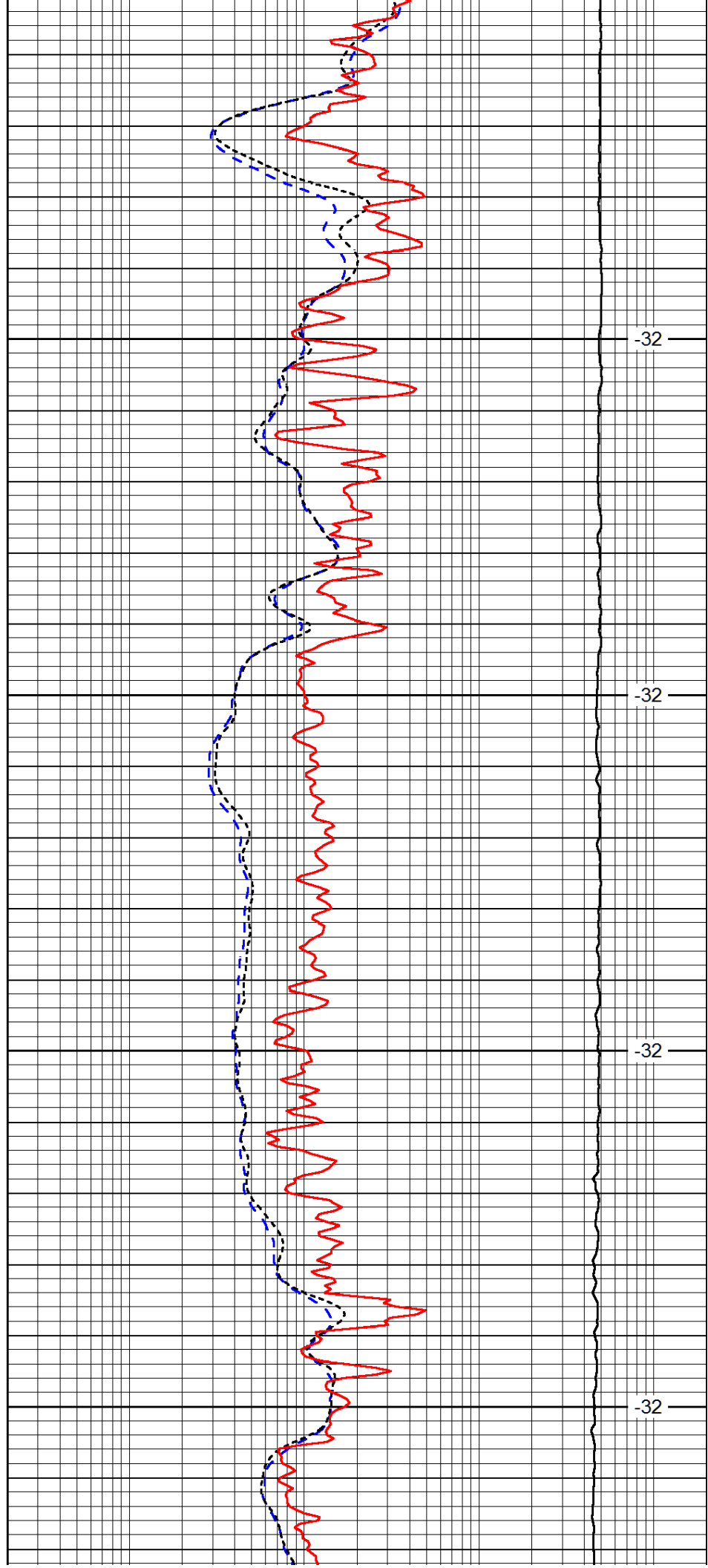


3050

3100

3150

3200

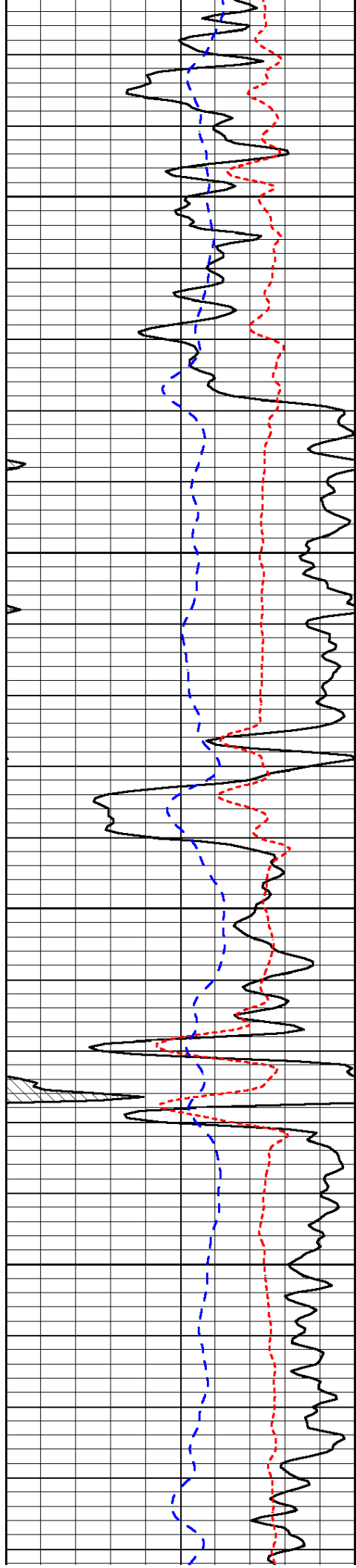


-32

-32

-32

-32

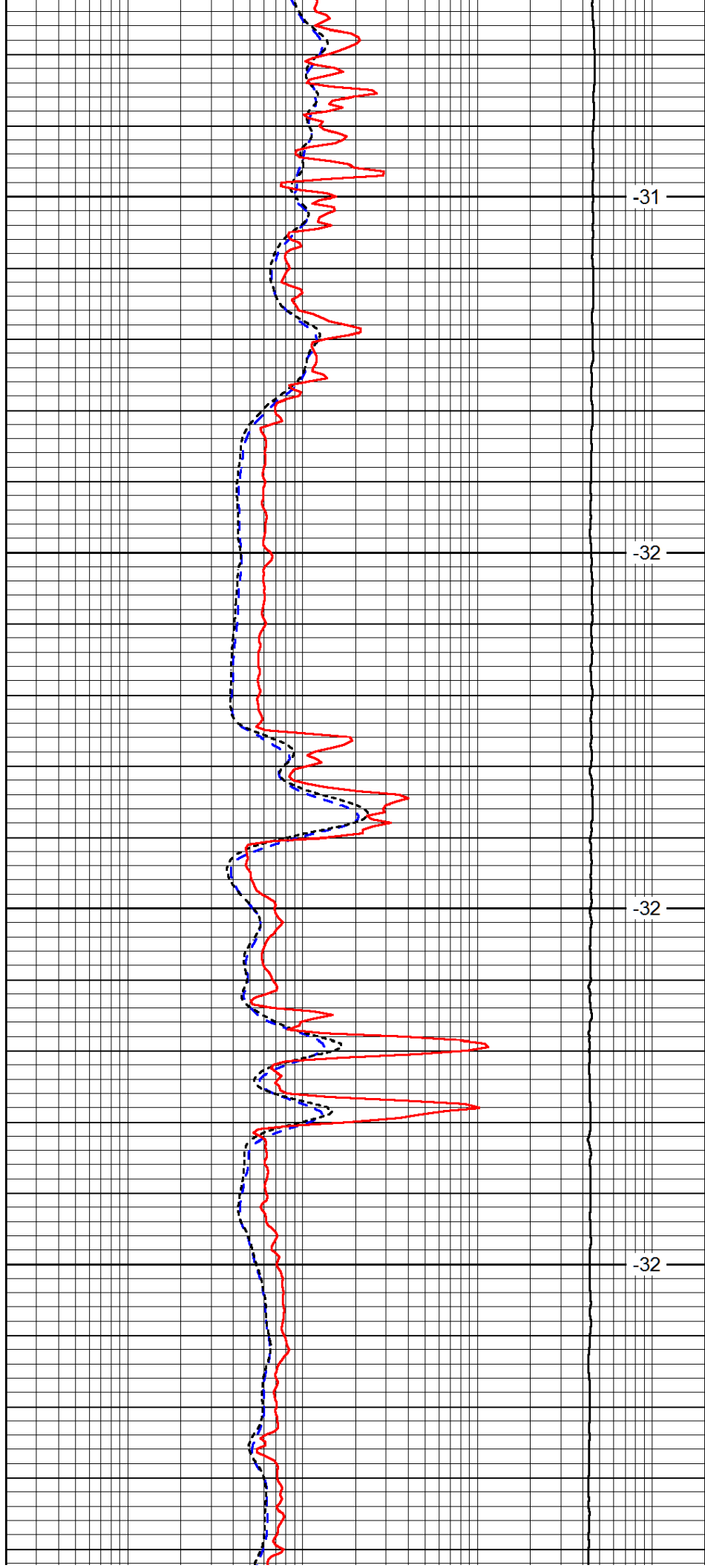


3250

3300

3350

3400

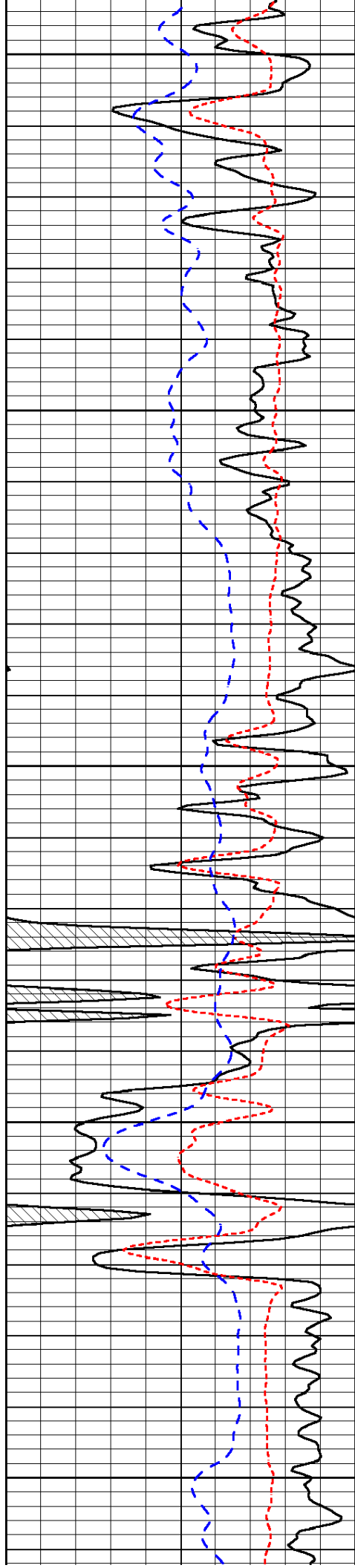


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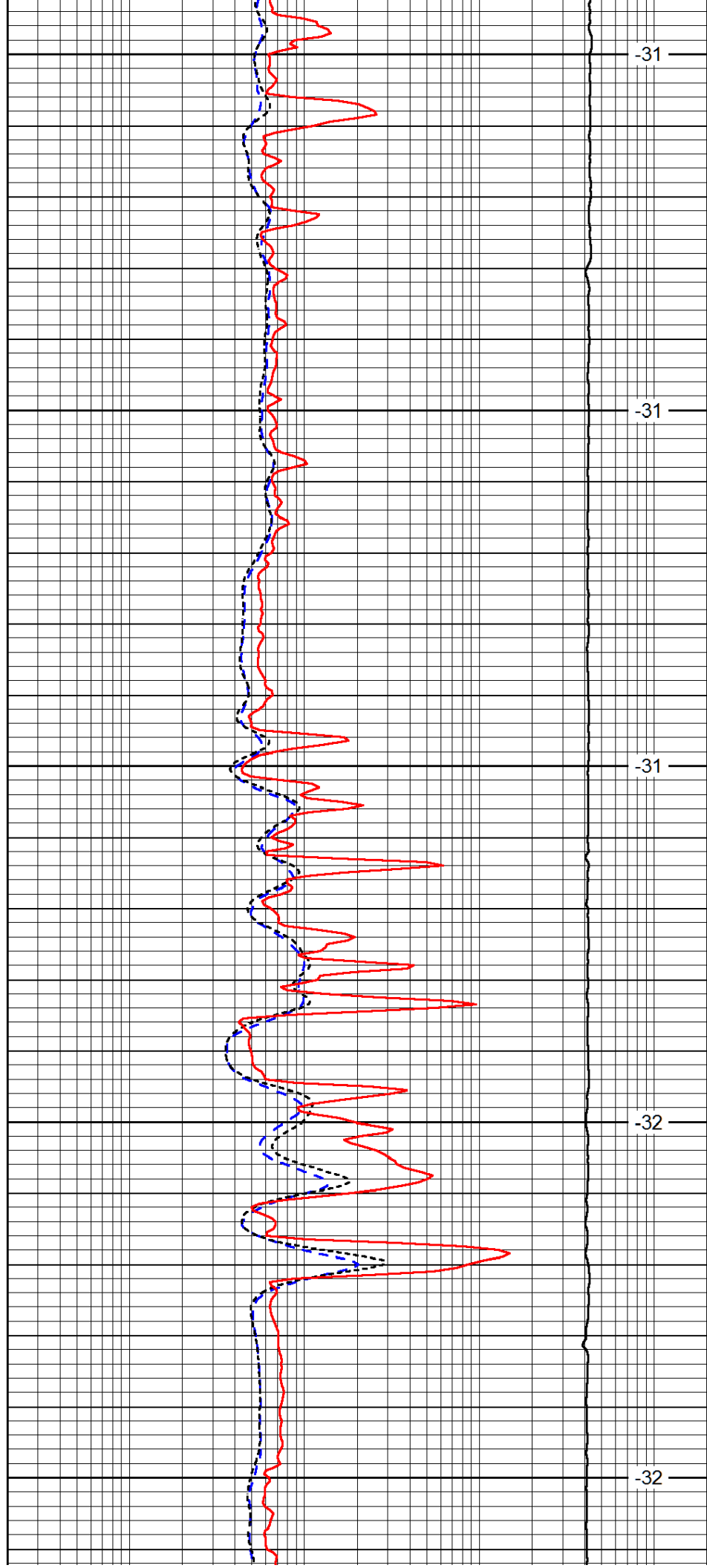
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3500

3550

3600

3650



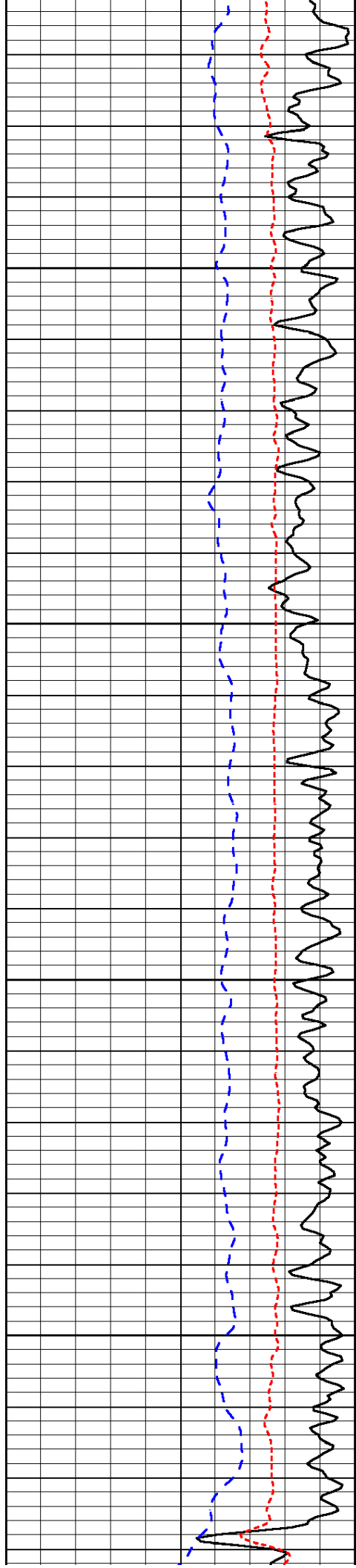
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-31

-32

-32



3700

3750

3800

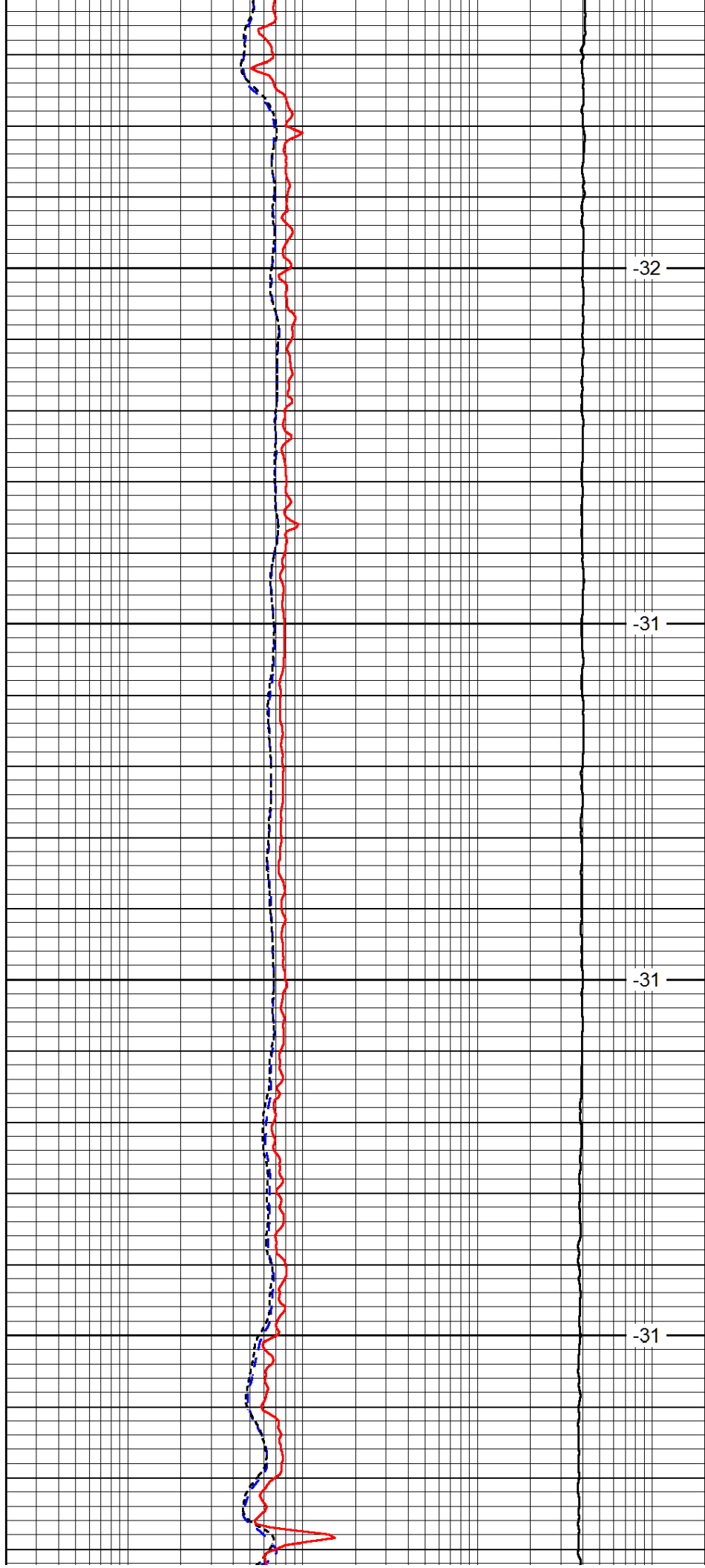
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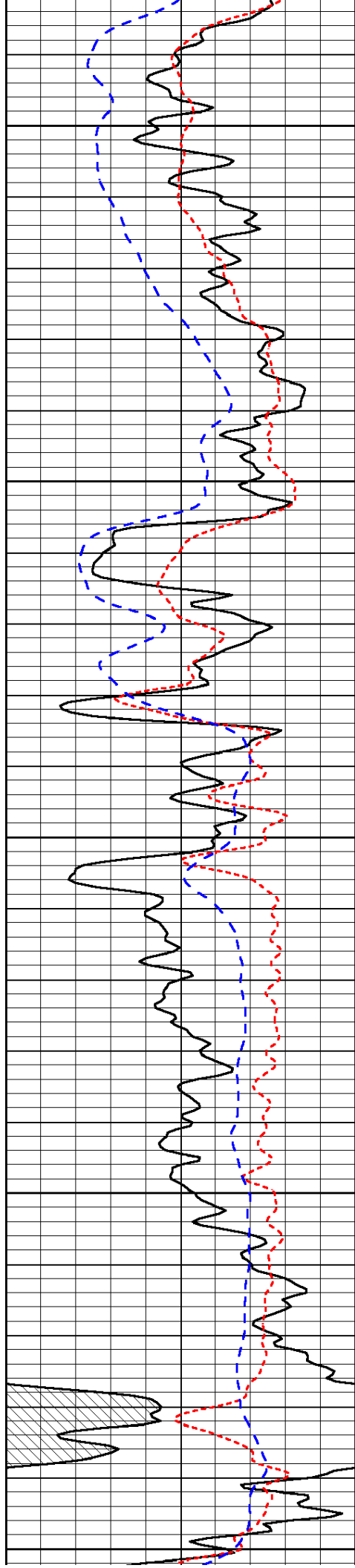
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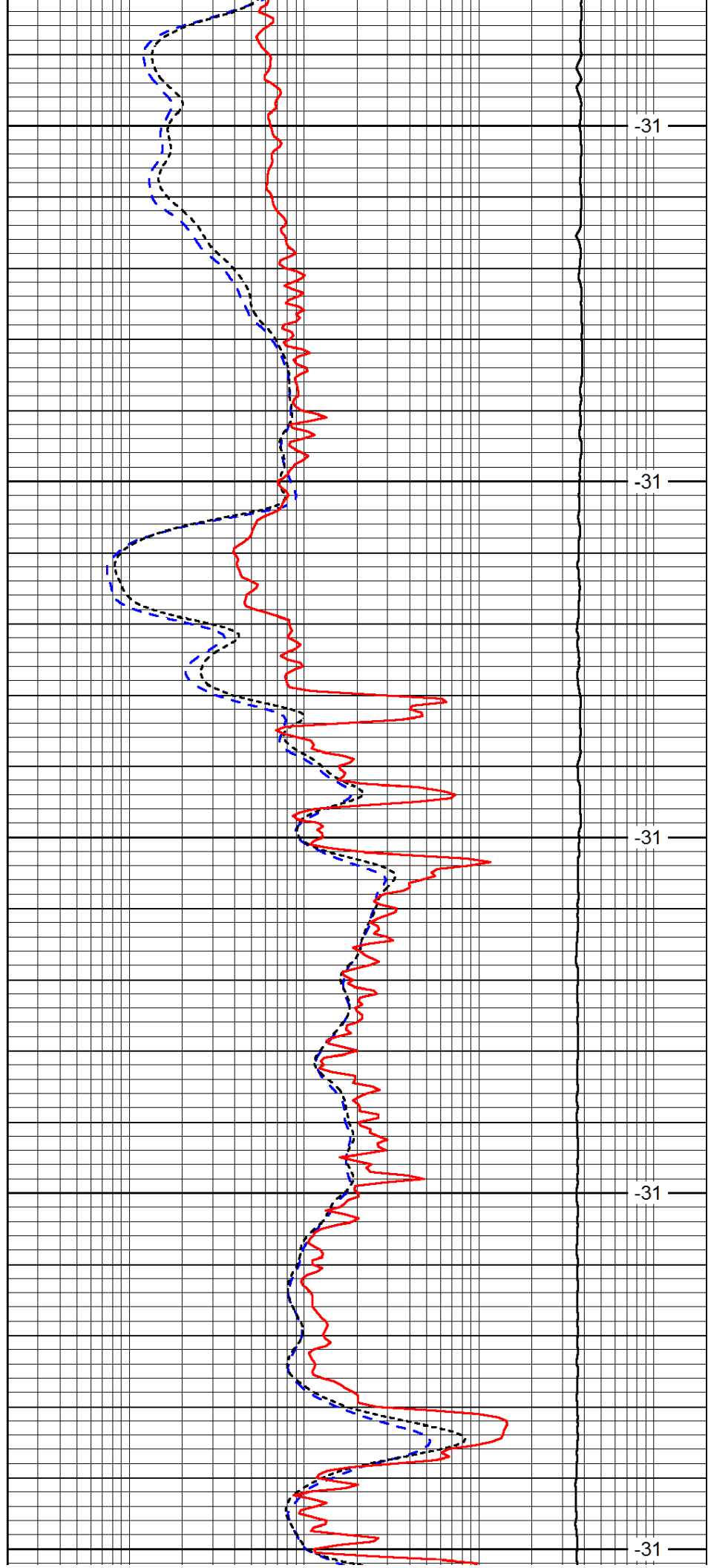
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3950

4000

4050

4100



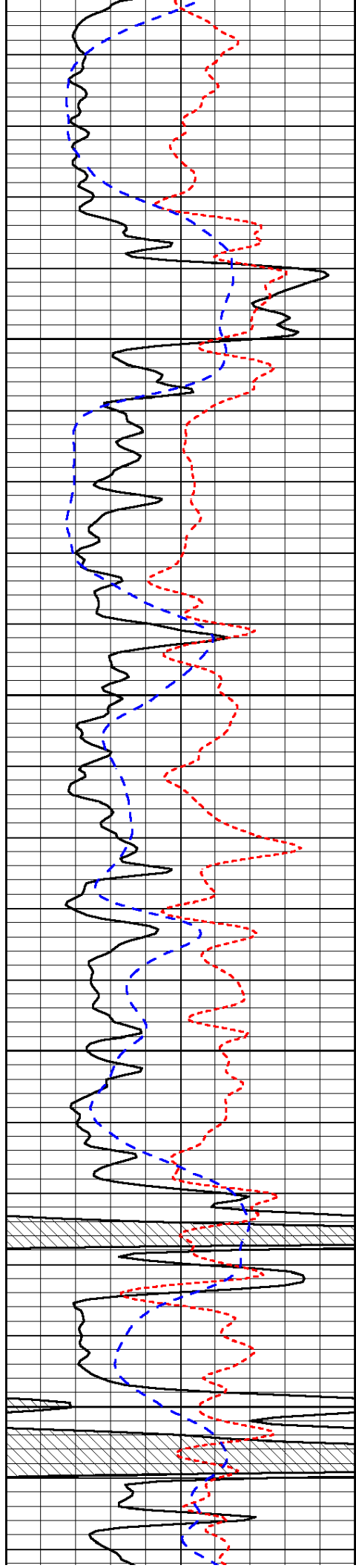
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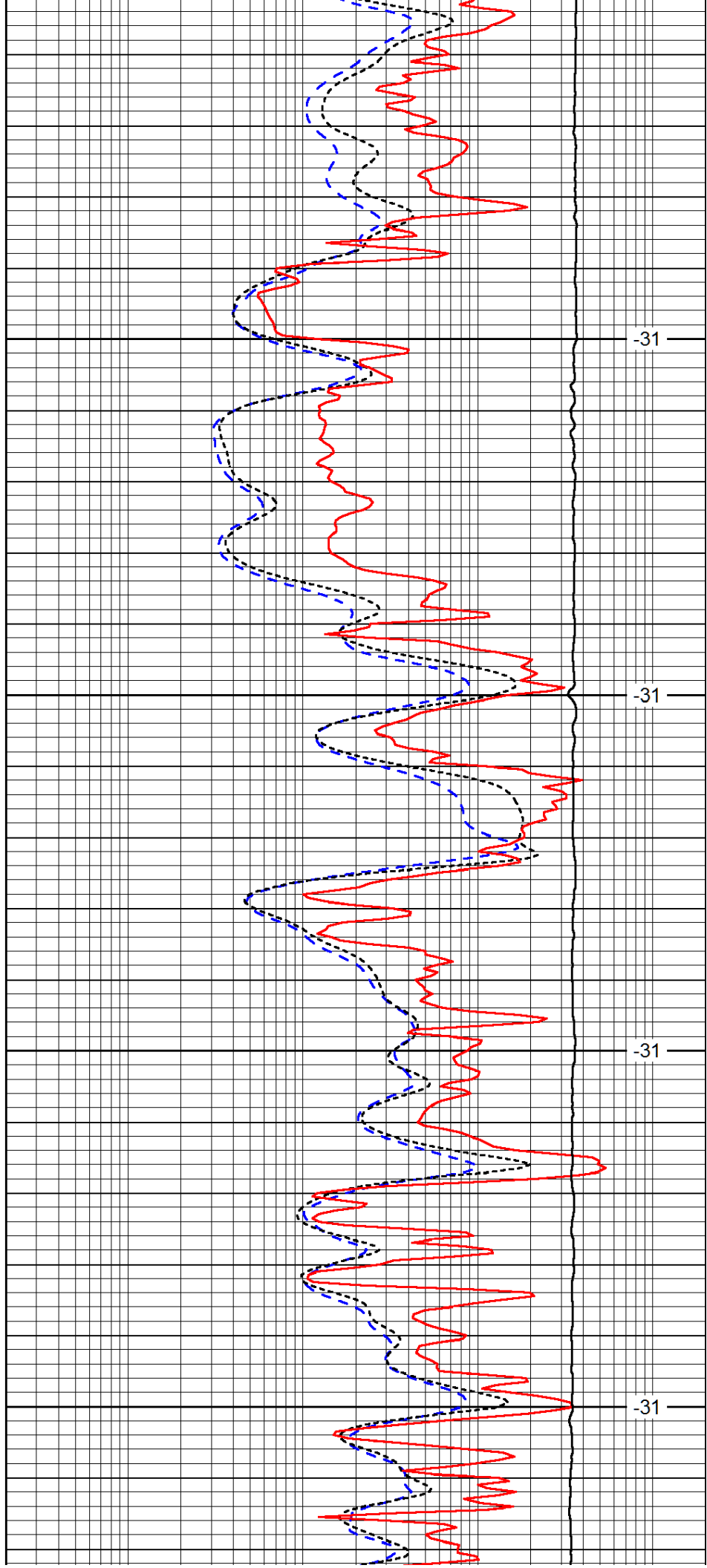


4150

4200

4250

4300

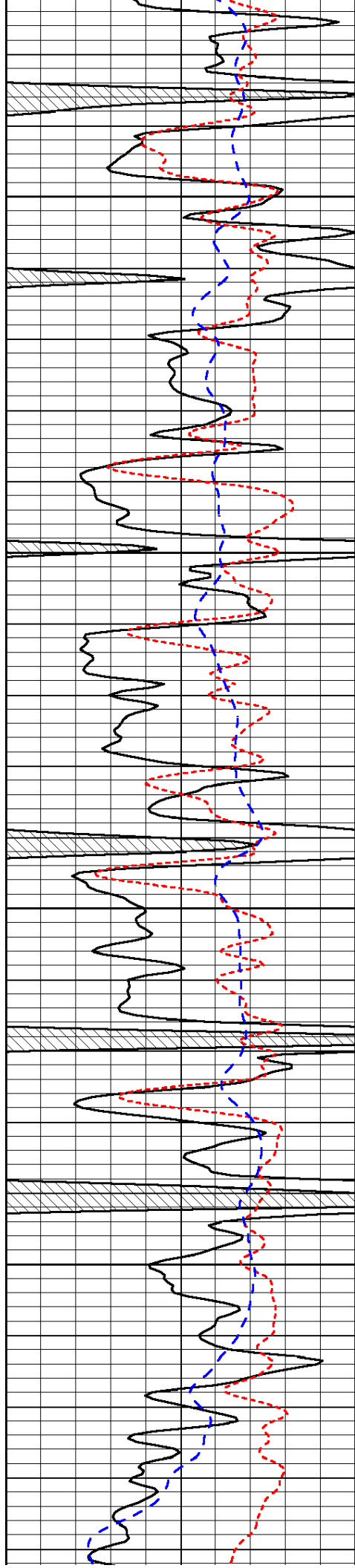


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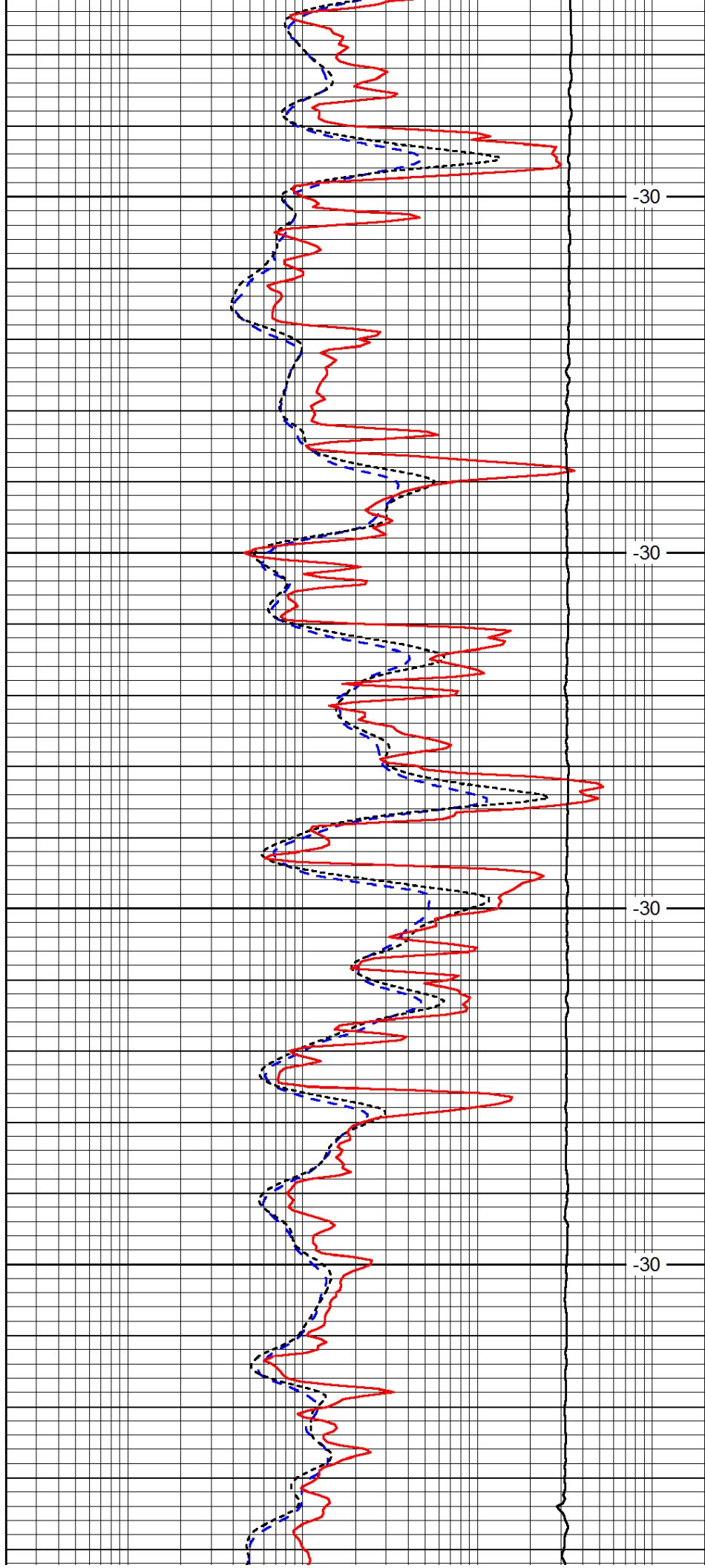


4350

4400

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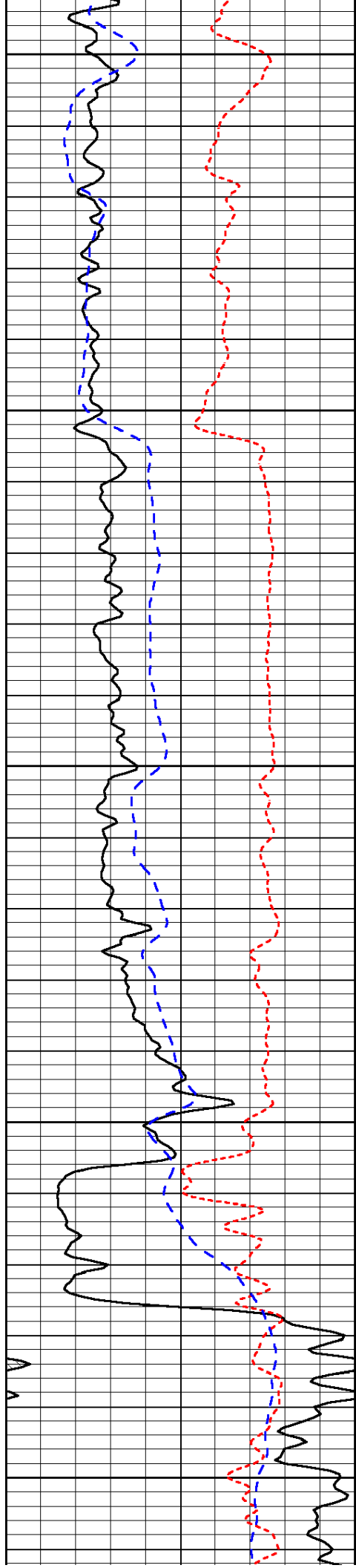


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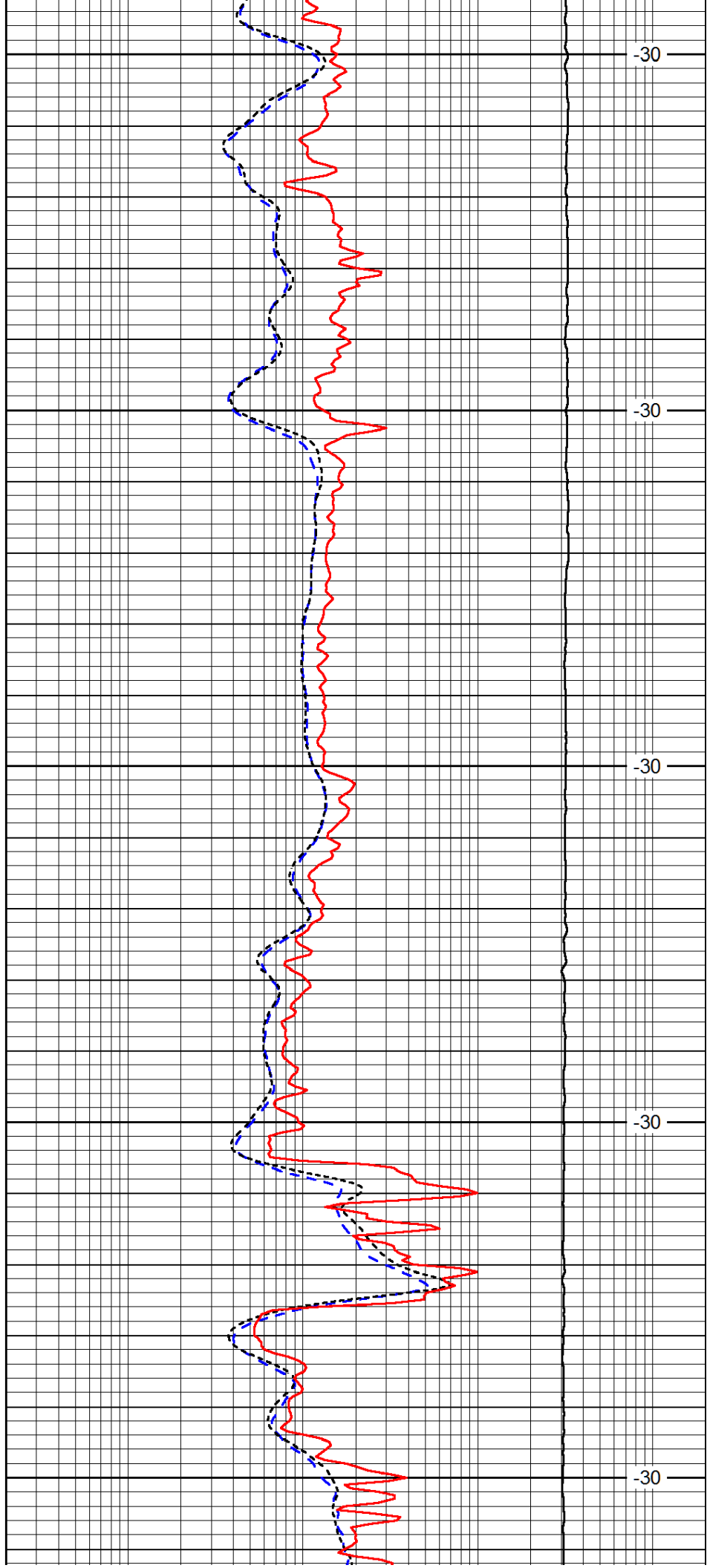
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4600

4650

4700

4750



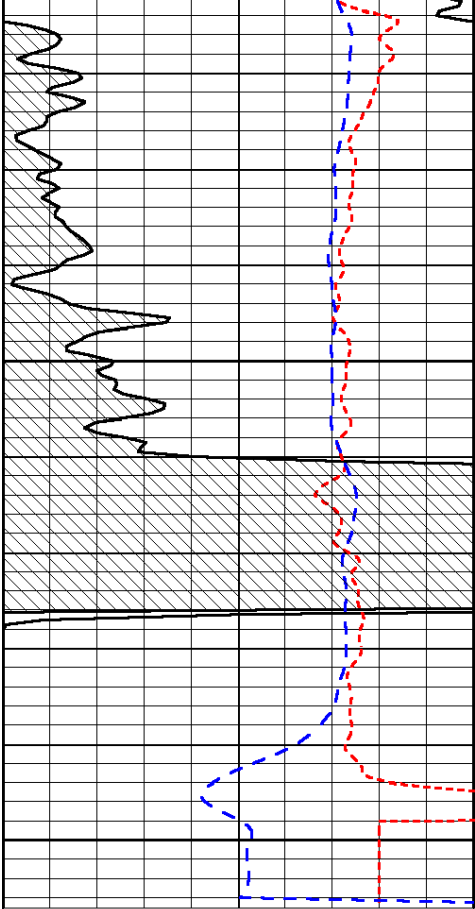
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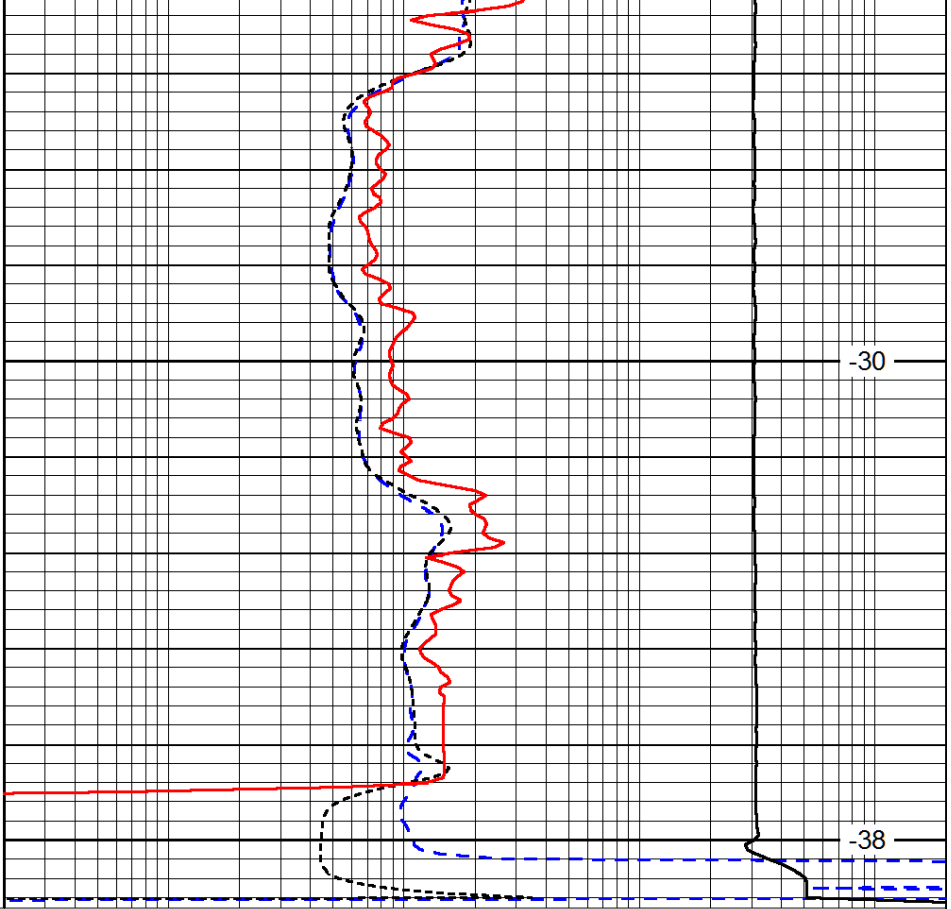
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0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4800

4850



-30

-38

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)