



# Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-195-22,630-00-00	
Company	Murfin Drilling Company, Inc.	
Well	Kohl Unit 'A' # 1-8	
Field	Wildcat	
County	Trego	State Kansas
Location	2630' FNL & 330' FWL	
Sec: 8	Twp: 12 S	Rge: 21 W
Permanent Datum	Ground Level	Elevation 2304
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	K.B. 2309
		D.F. 2304
		G.L. 2304

Date	10/09/2009
Run Number	One
Depth Driller	4083
Depth Logger	4082
Bottom Logged Interval	4081
Top Log Interval	0
Casing Driller	8.625 @ 211
Casing Logger	210
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	5,000
Density / Viscosity	9.2 54
pH / Fluid Loss	11.0 6.4
Source of Sample	Flowline
Rm @ Meas. Temp	.40 @ 58
Rmf @ Meas. Temp	.30 @ 58
Rmc @ Meas. Temp	.54 @ 58
Source of Rmf / Rmc	Charts
Rm @ BHT	.20 @ 119
Operating Rig Time	5 Hours
Max Rec. Temp. F	119
Equipment Number	4
Location	Havs
Recorded By	K. Bange
Witnessed By	Paul Gunzelman

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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

170 & Riga Rd, 2 1/2 N to J Rd, 1 W to 370, 1 N to I Rd  
3/4 W, N into

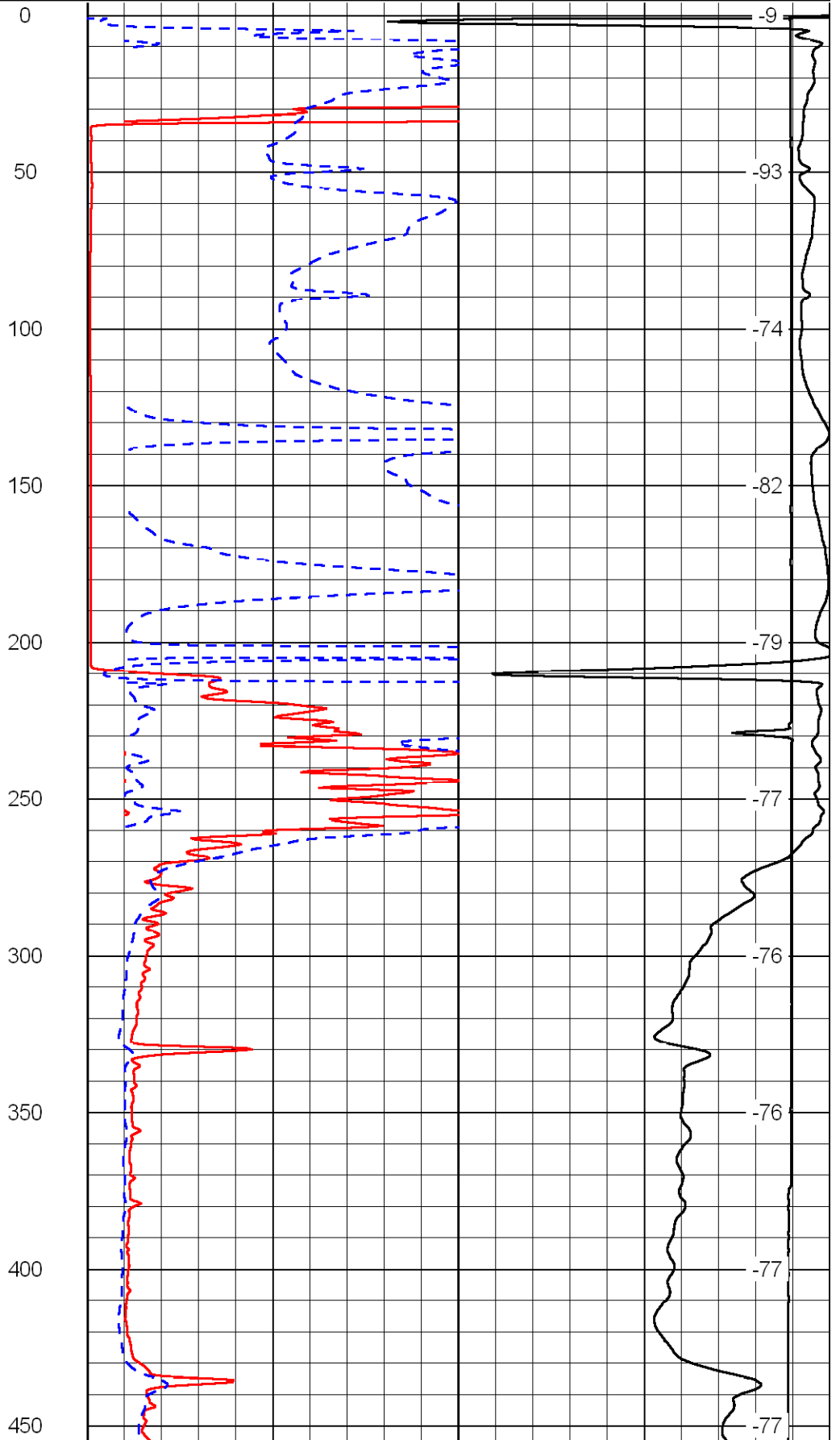
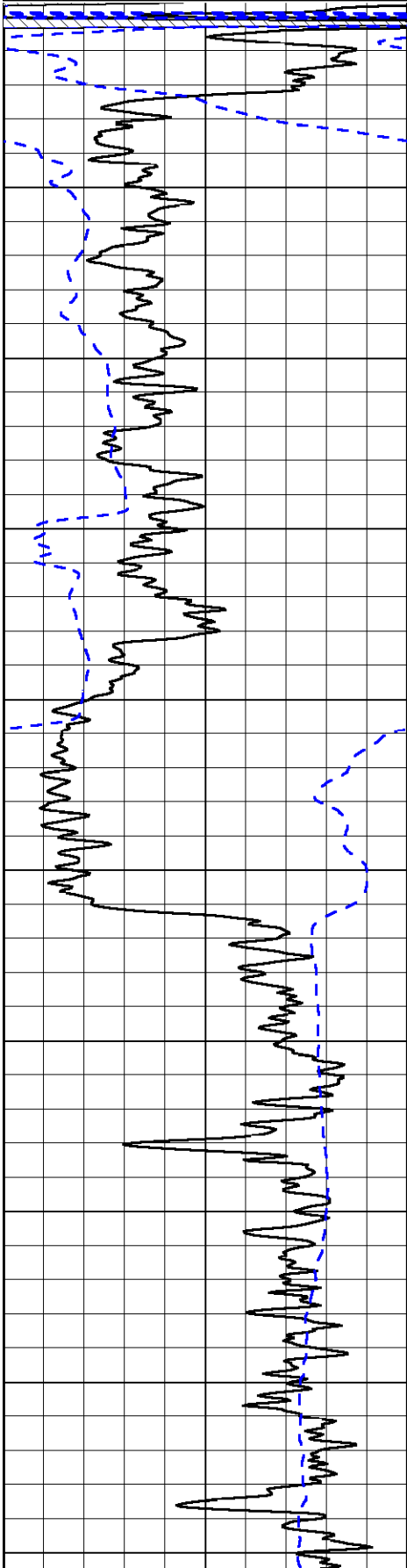
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 Presentation Format: dil2in  
 Dataset Creation: Fri Oct 09 22:01:04 2009  
 Charted by: Depth in Feet scaled 1:600

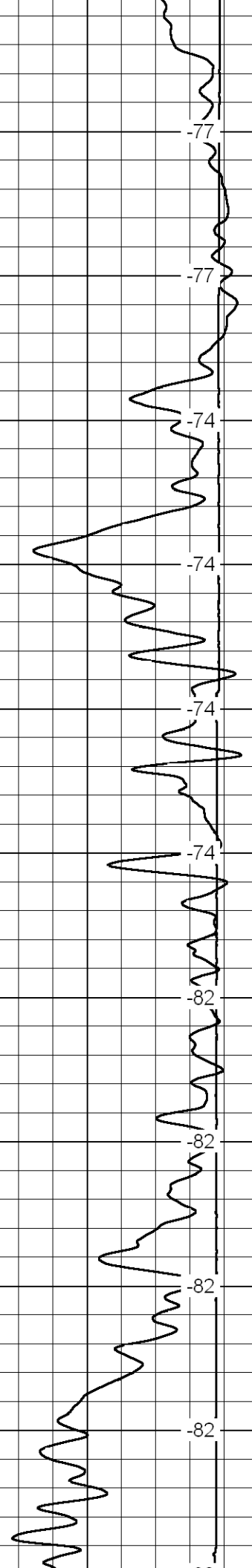
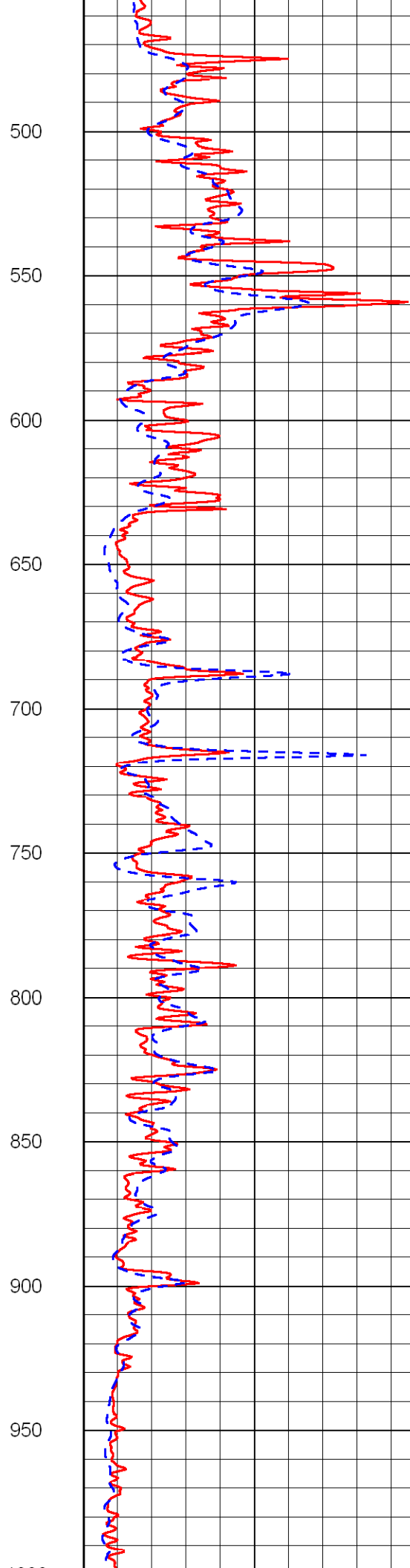
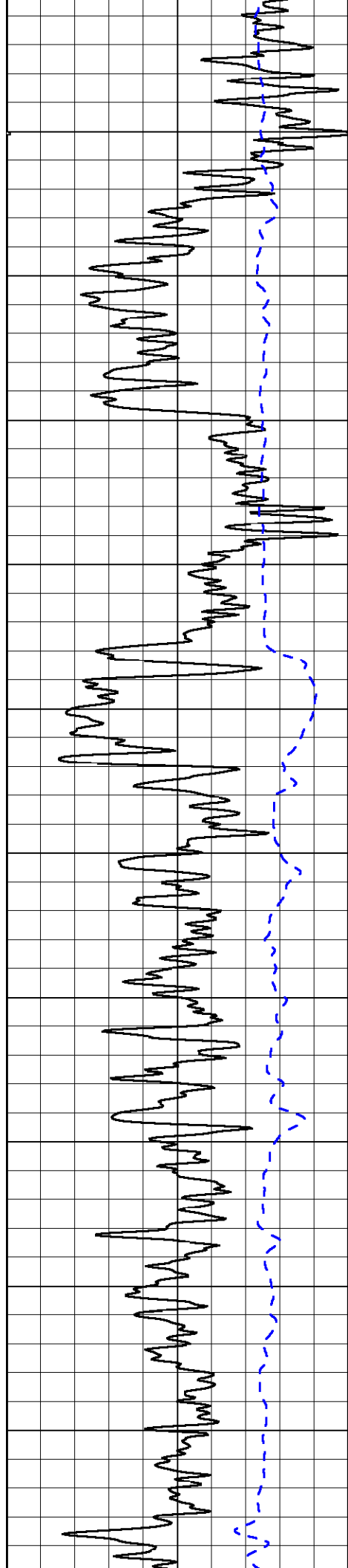
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-200 SP (MV) 0

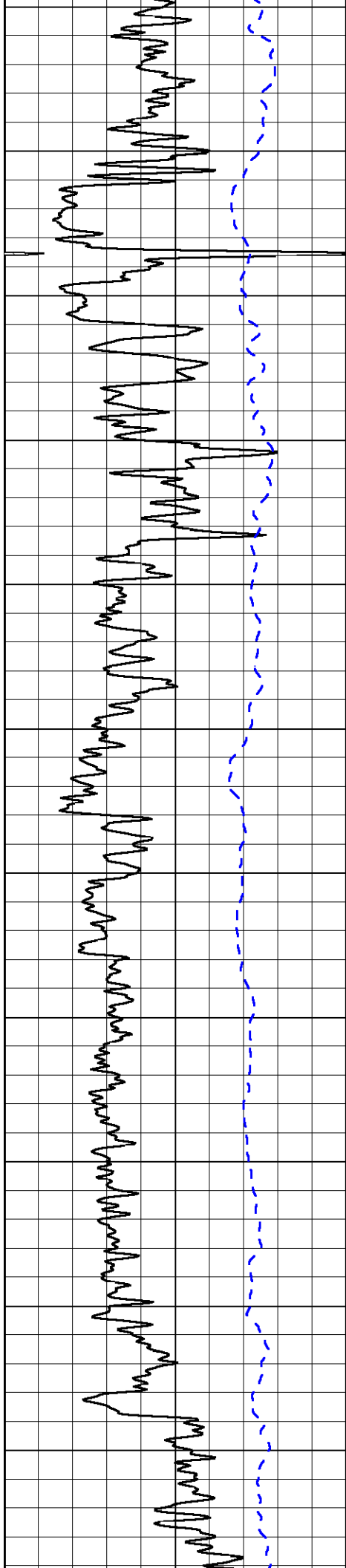
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0 Deep Resistivity (Ohm-m) 50  
1000 Conductivity (mmho/m) 0  
15000 Line Tension (lb) 0

LSPD  
(ft/min)

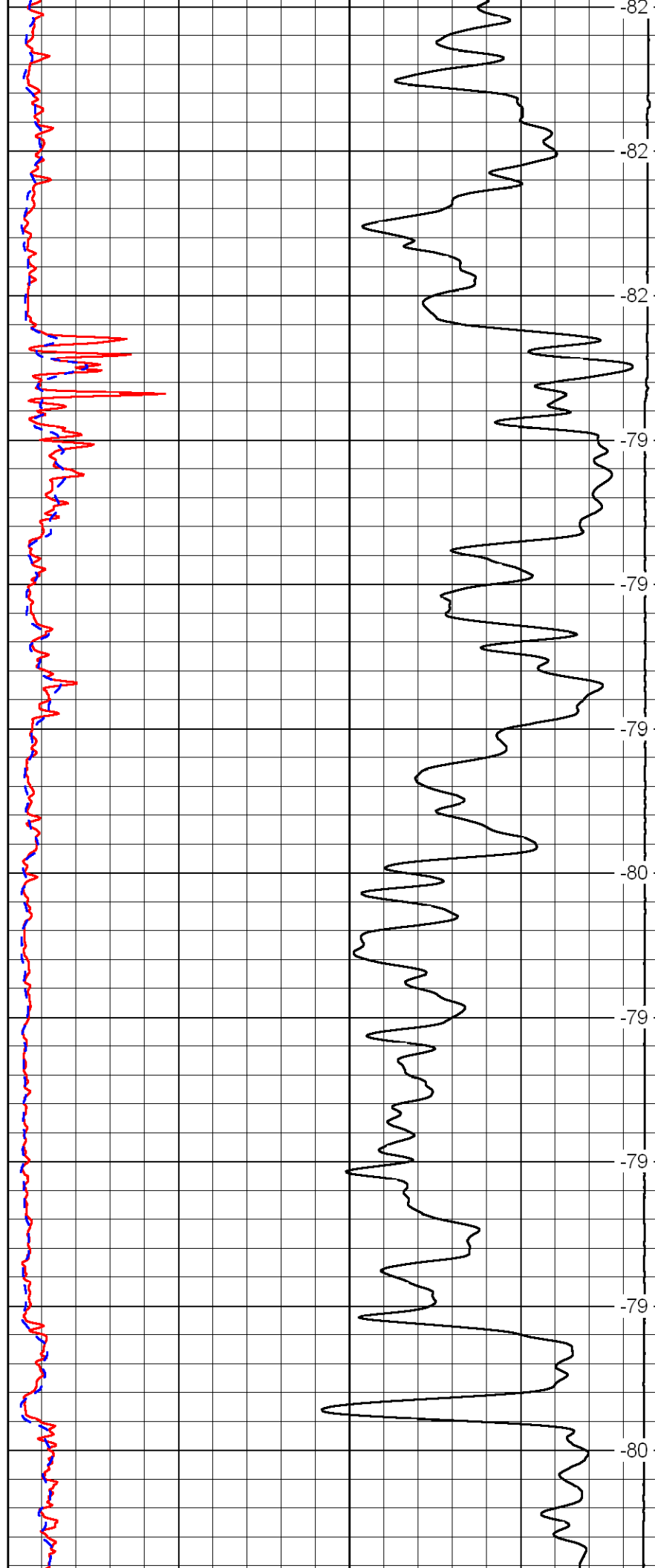
Shallow Resistivity  
50 (Ohm-m) 500  
50 Deep Resistivity (Ohm-m) 500



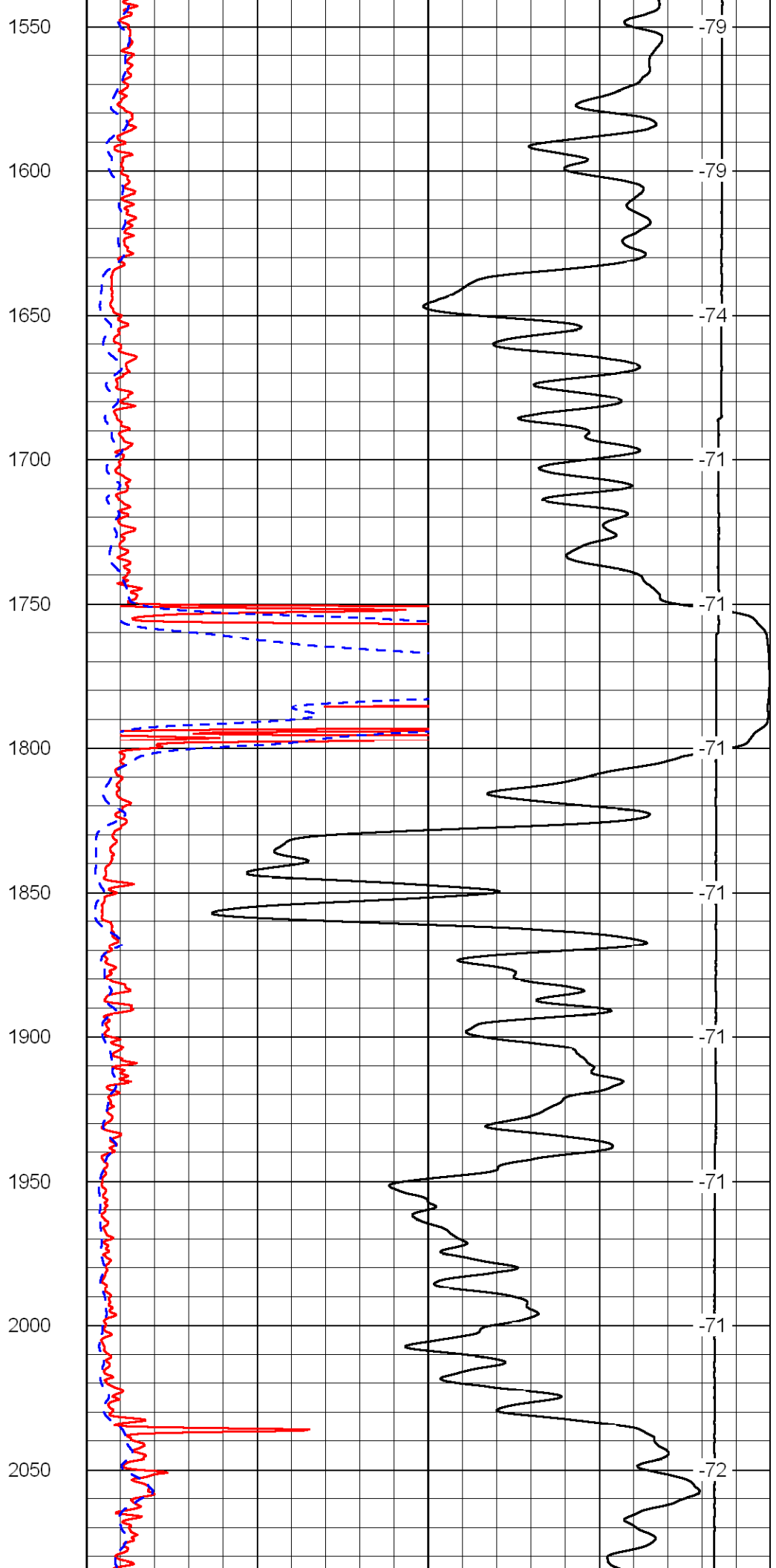
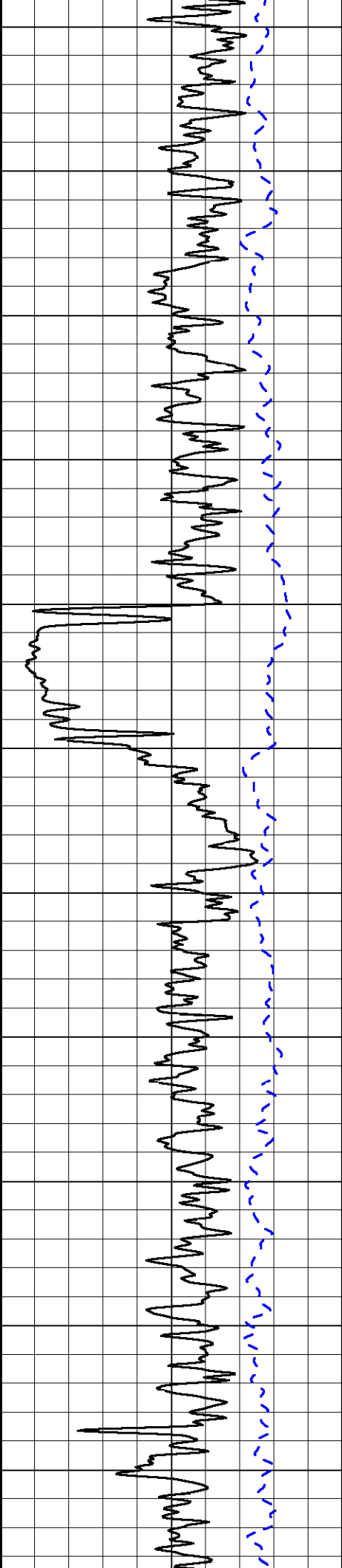




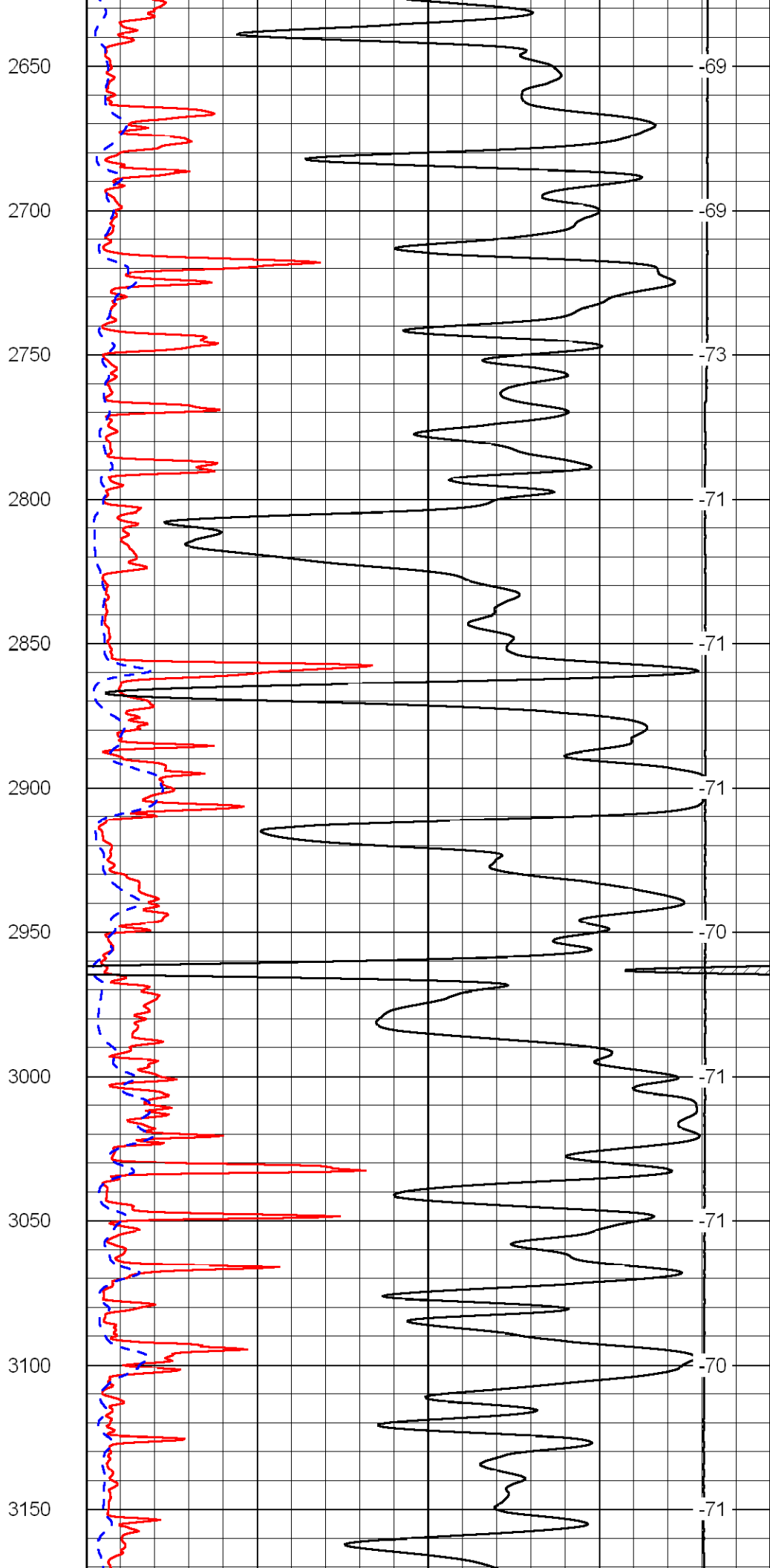
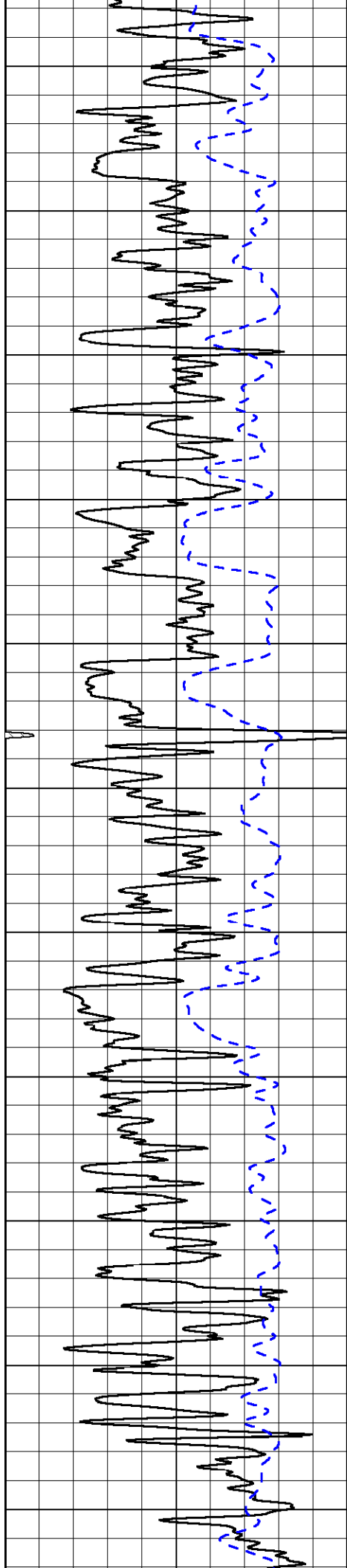
1000  
1050  
1100  
1150  
1200  
1250  
1300  
1350  
1400  
1450  
1500

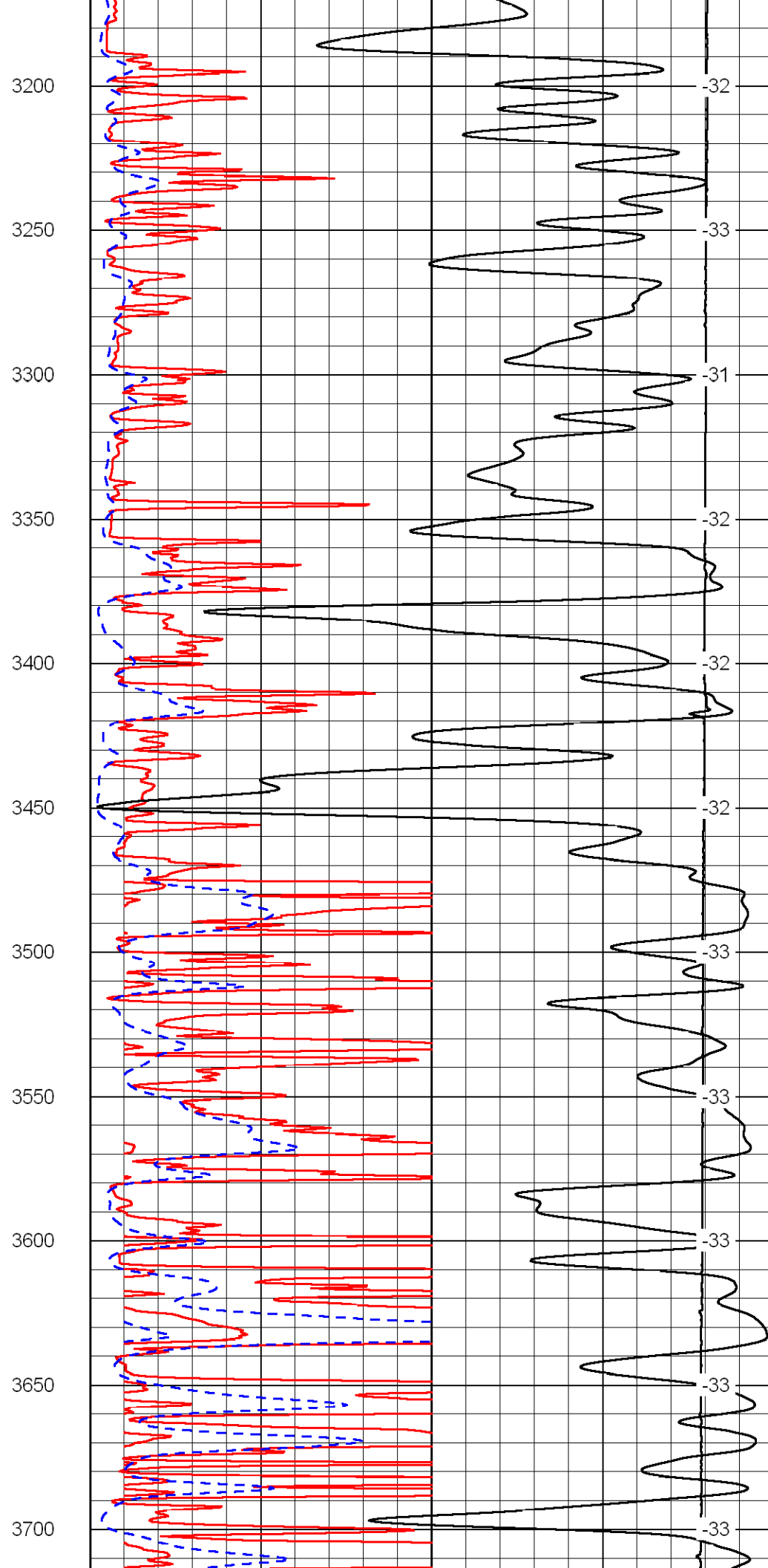
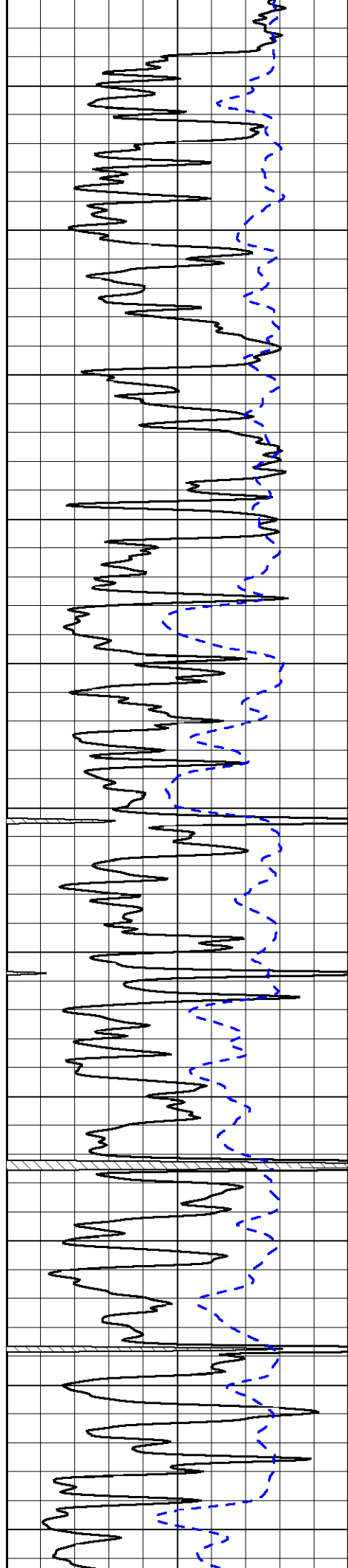


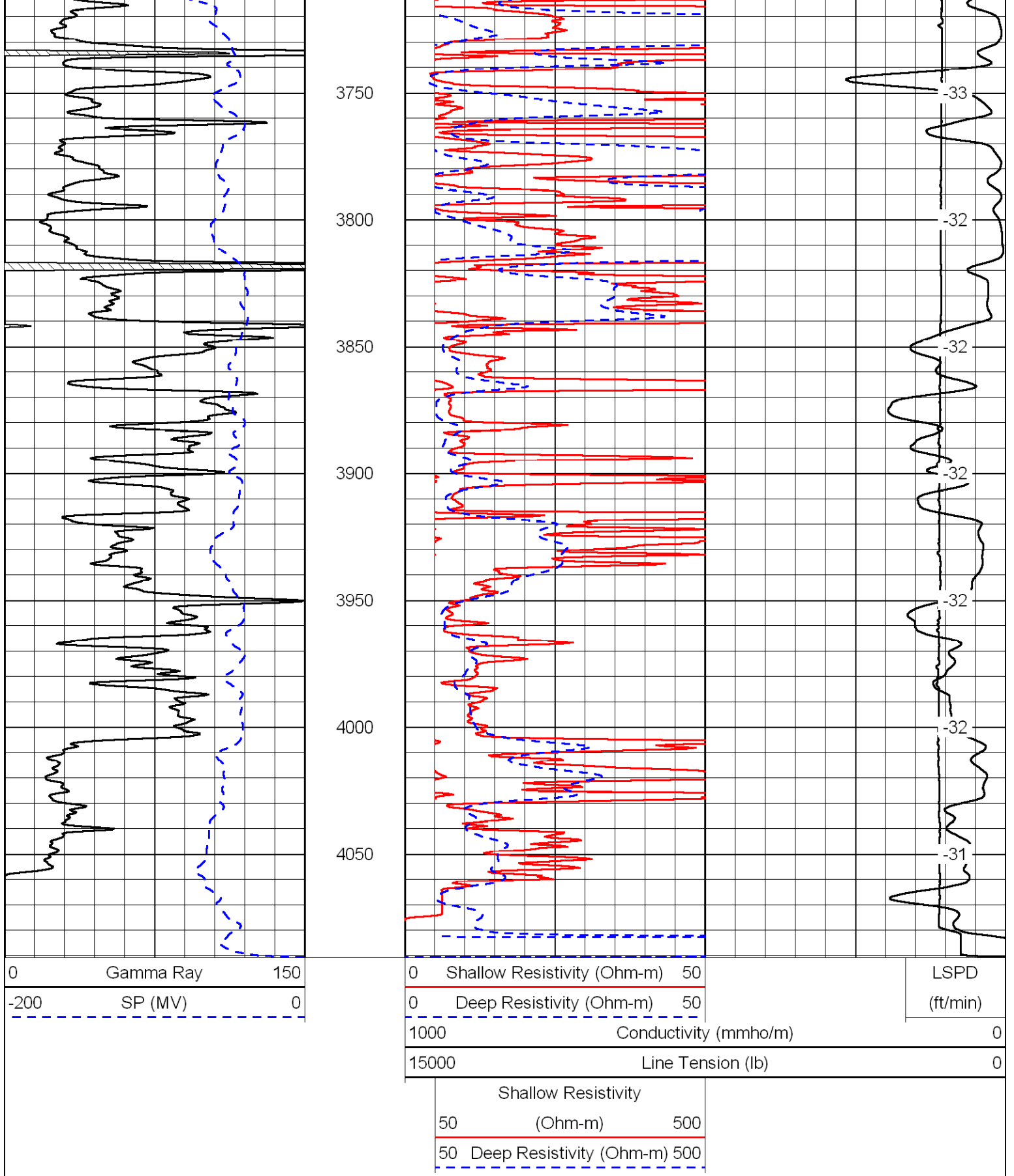
-82  
-82  
-82  
-79  
-79  
-79  
-79  
-80  
-79  
-79  
-79  
-79  
-80











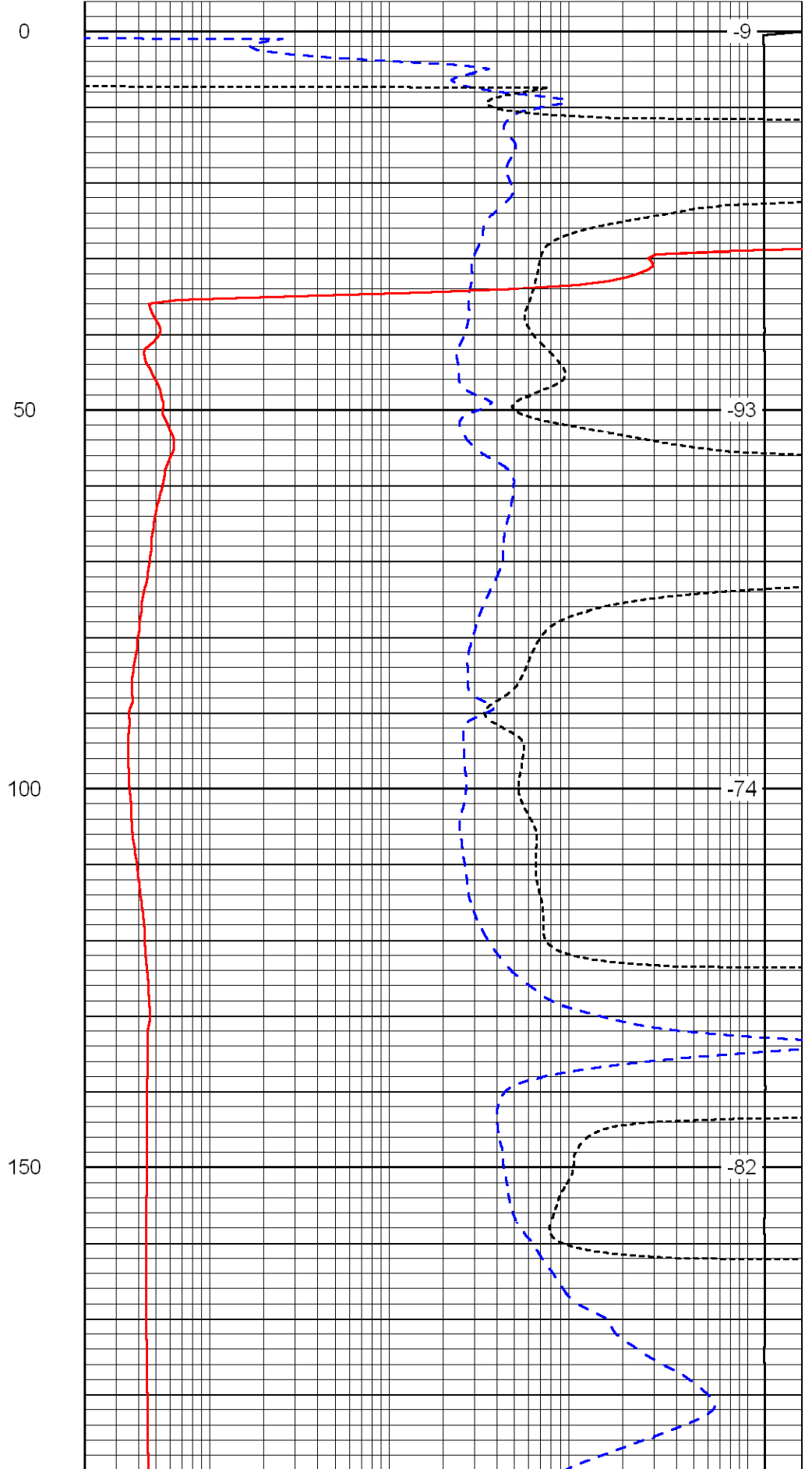
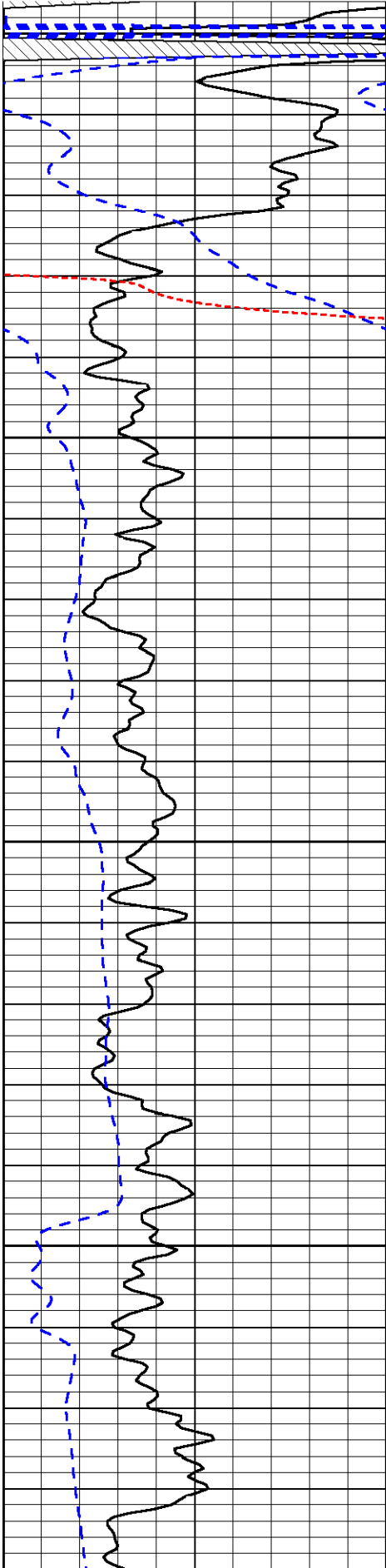
Database File: c:\warrior\data\murfin\_kohl unit\_ a#1-8\murfin100909hd.db  
 Dataset Pathname: dil/murf2in  
 Presentation Format: dil  
 Dataset Creation: Fri Oct 09 22:01:04 2009  
 Charted by: Depth in Feet scaled 1:240



-200 SP (mV) 0  
 -160 Rxo / Rt 40

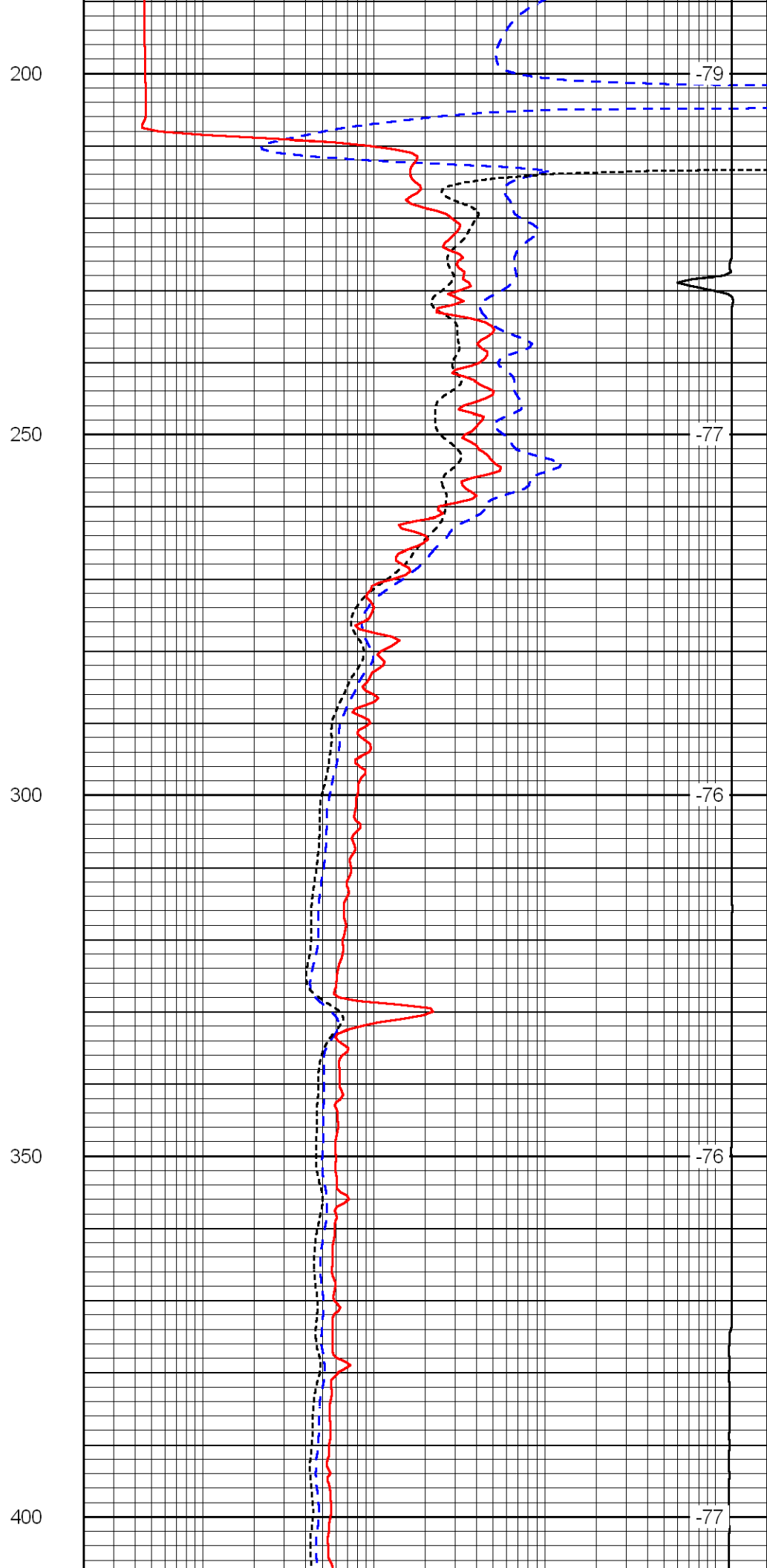
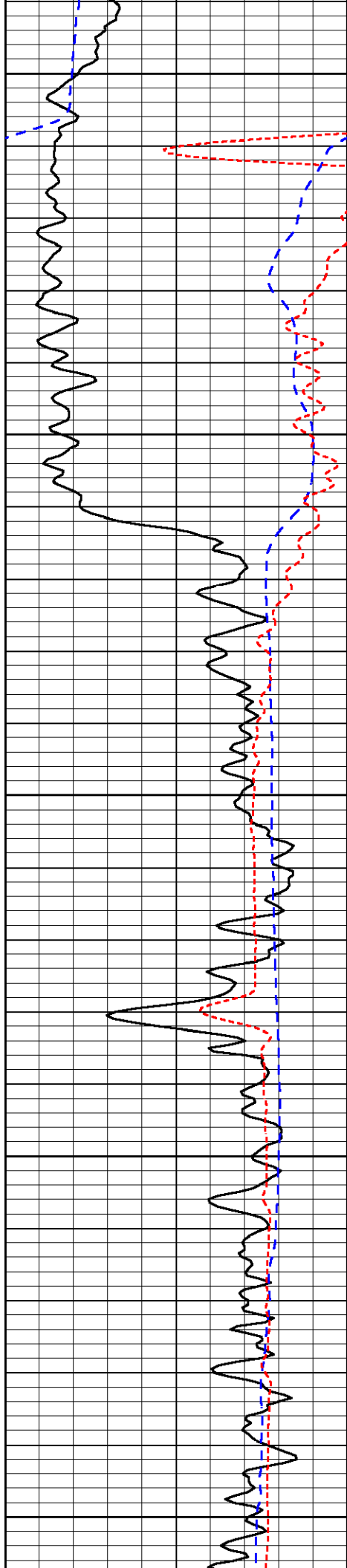
0.2 Medium Resistivity (Ohm-m) 2000  
 0.2 Shallow Resistivity (Ohm-m) 2000  
 15000 Line Tension (lb) 0

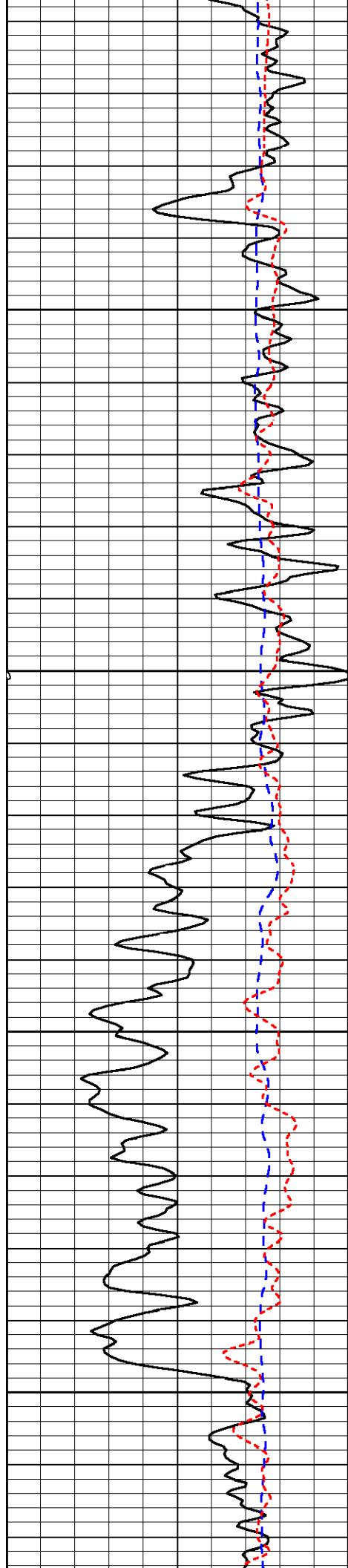
LSPD  
 (ft/min)



0  
 50  
 100  
 150

-9  
 -93  
 -74  
 -82



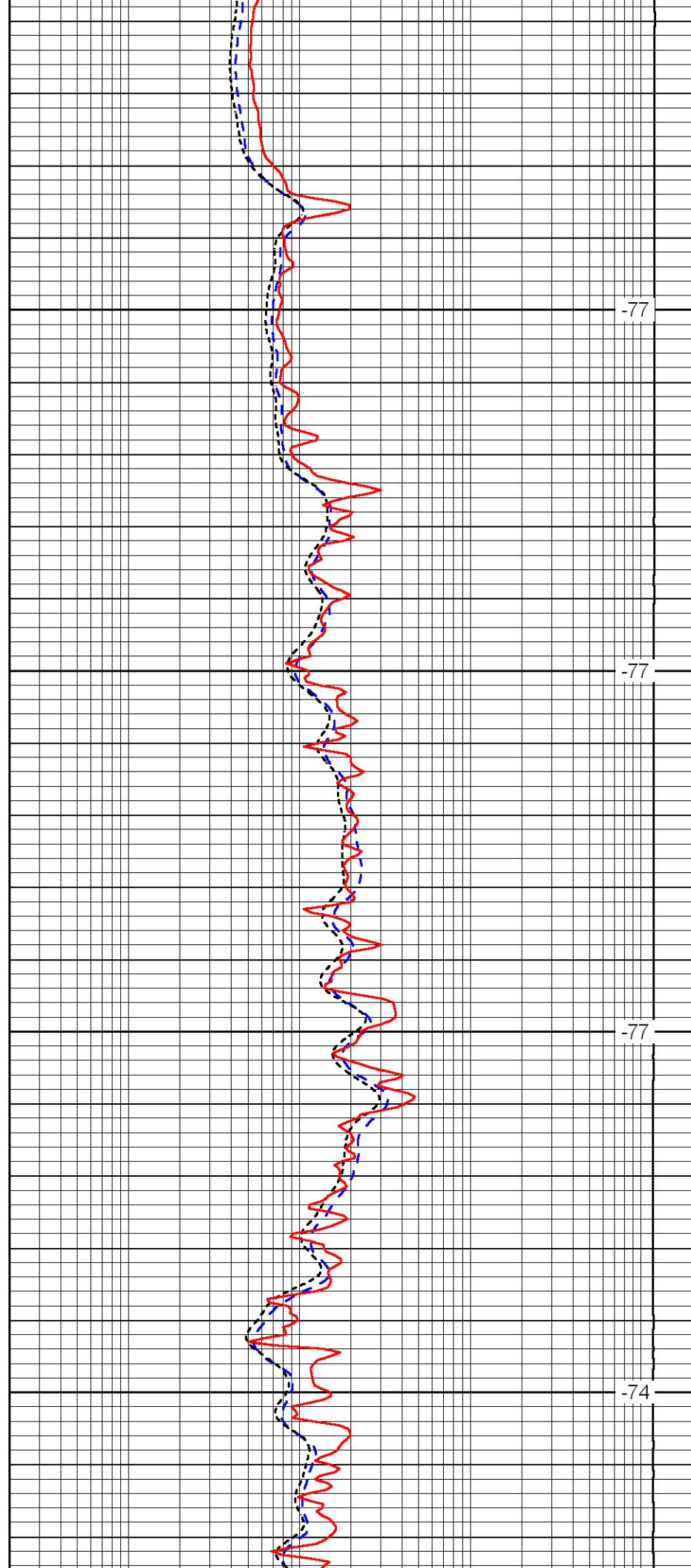


450

500

550

600

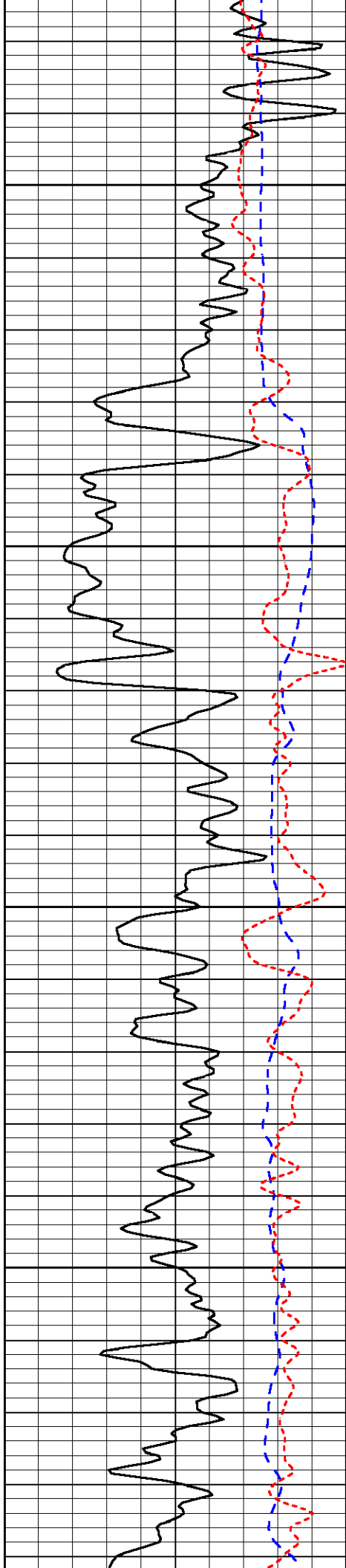


-77

-77

-77

-74

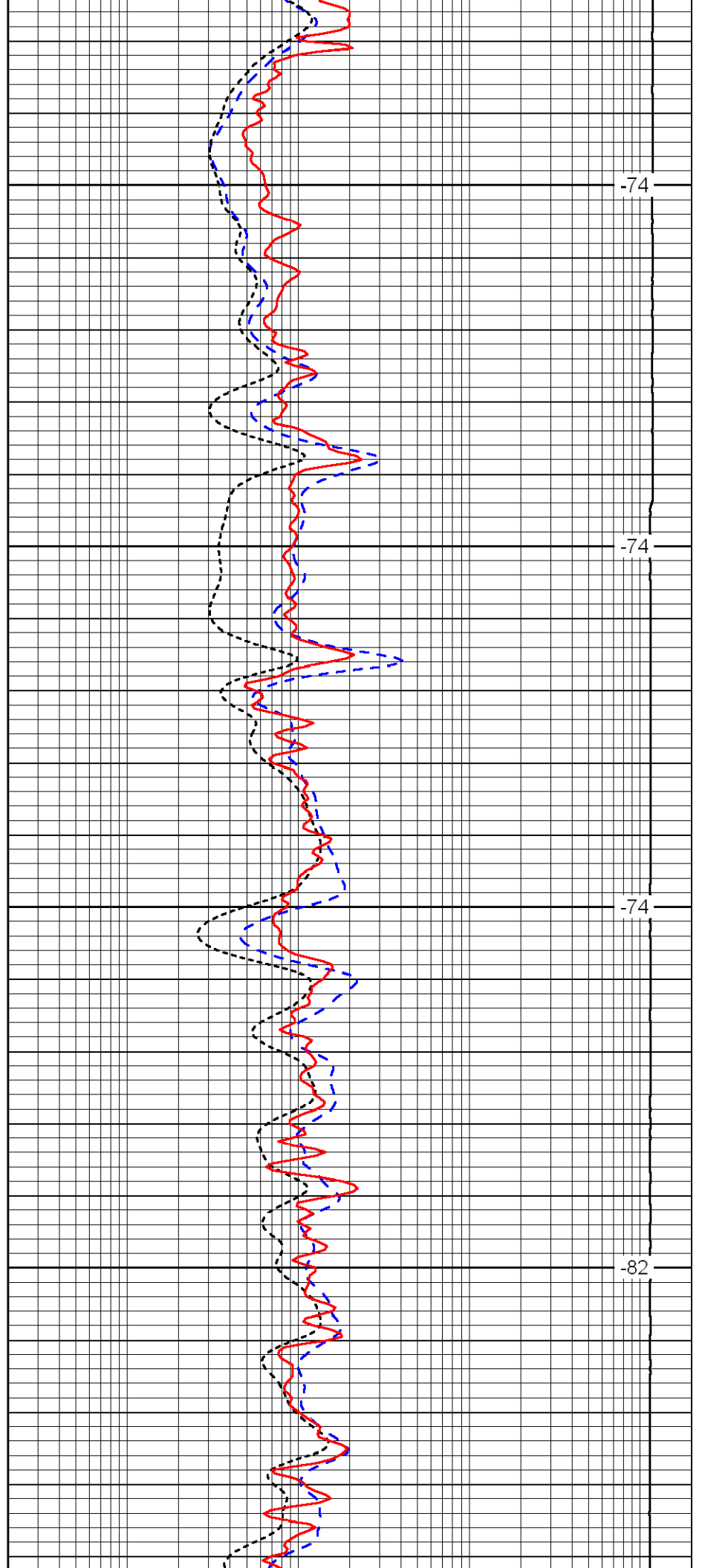


650

700

750

800

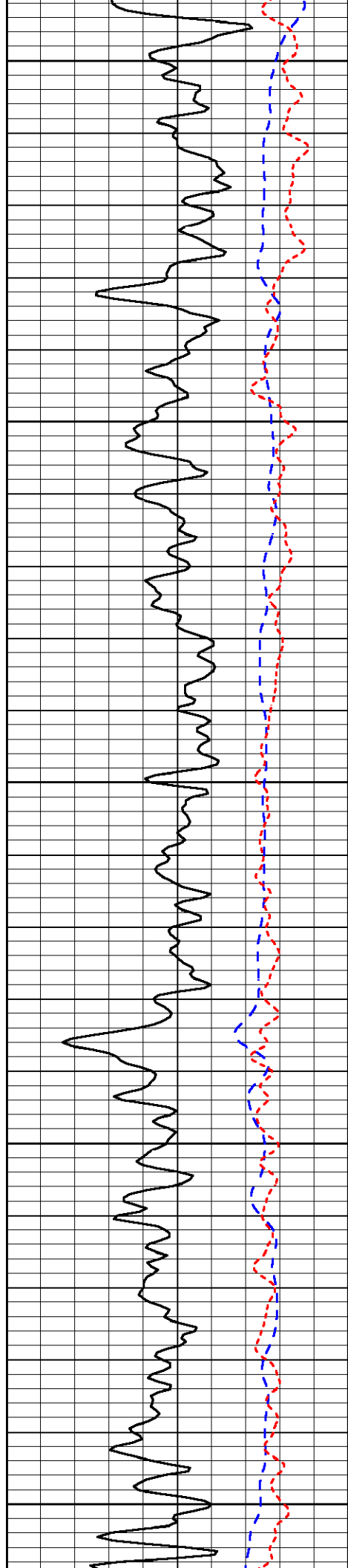


-74

-74

-74

-82



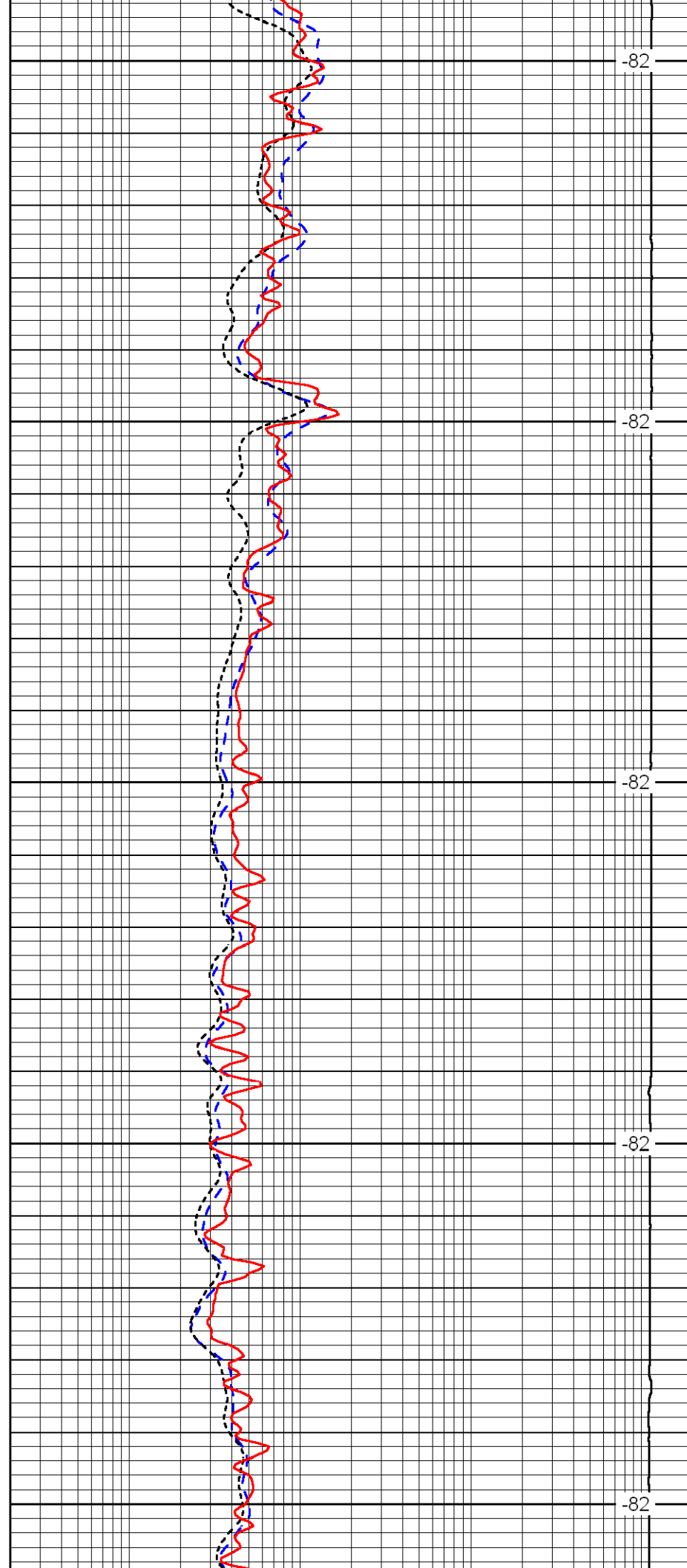
850

900

950

1000

1050



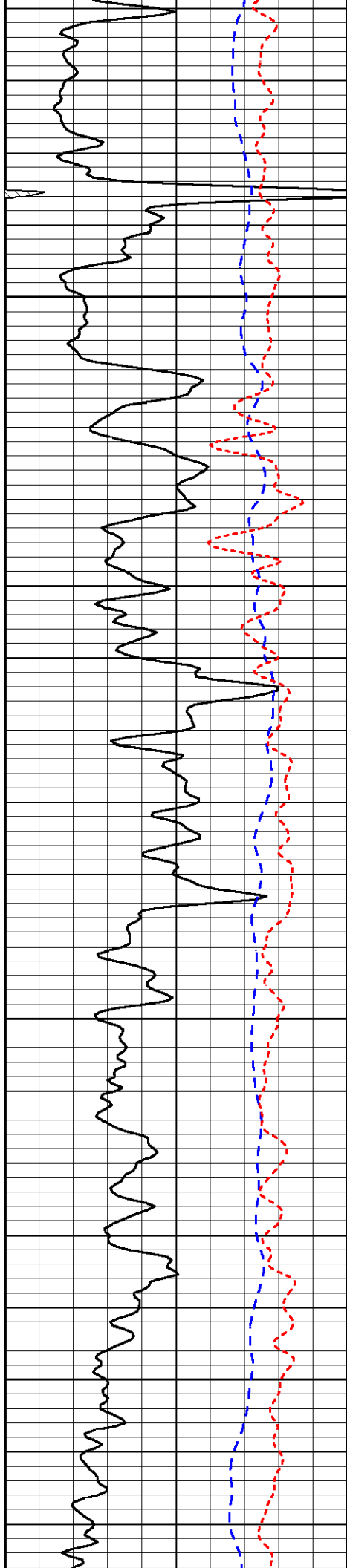
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82

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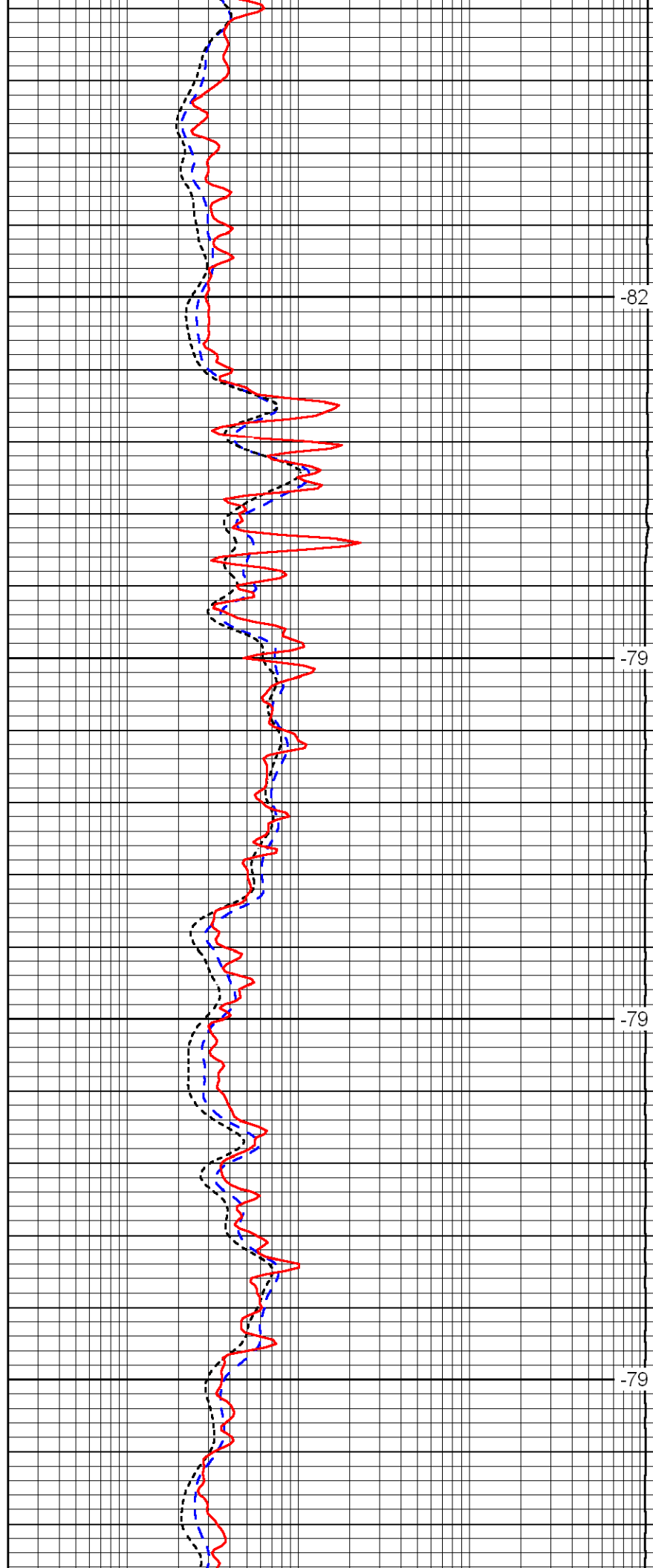


1100

1150

1200

1250

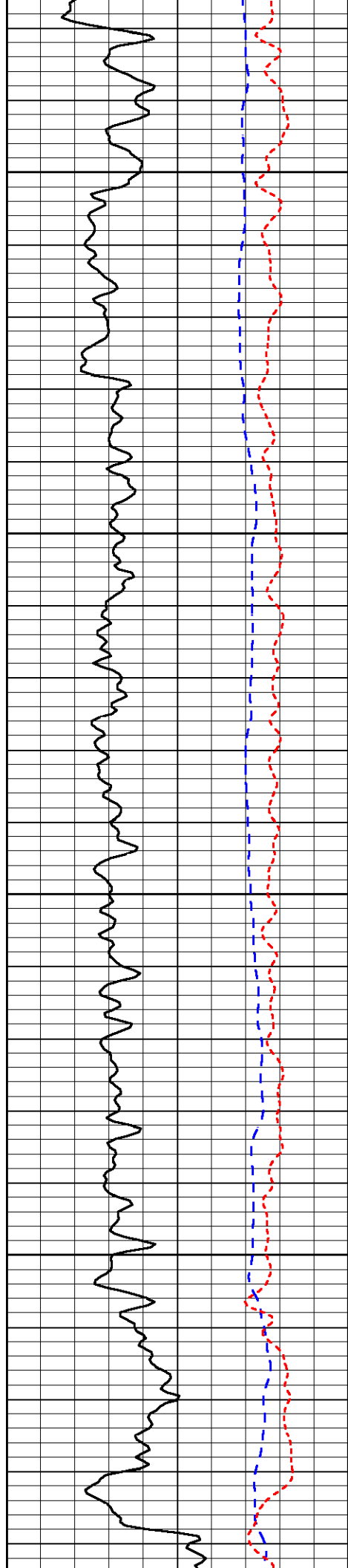


-82

-79

-79

-79

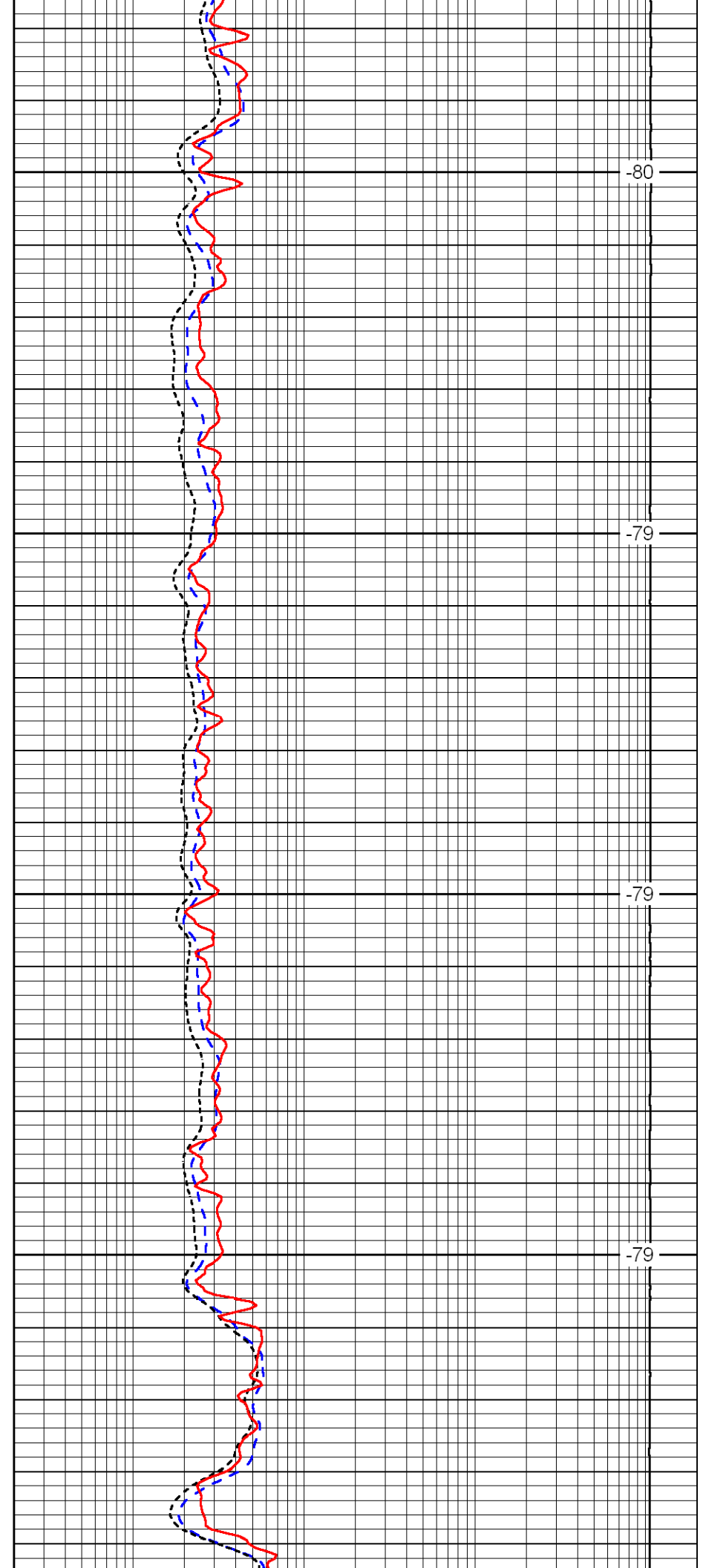


1300

1350

1400

1450

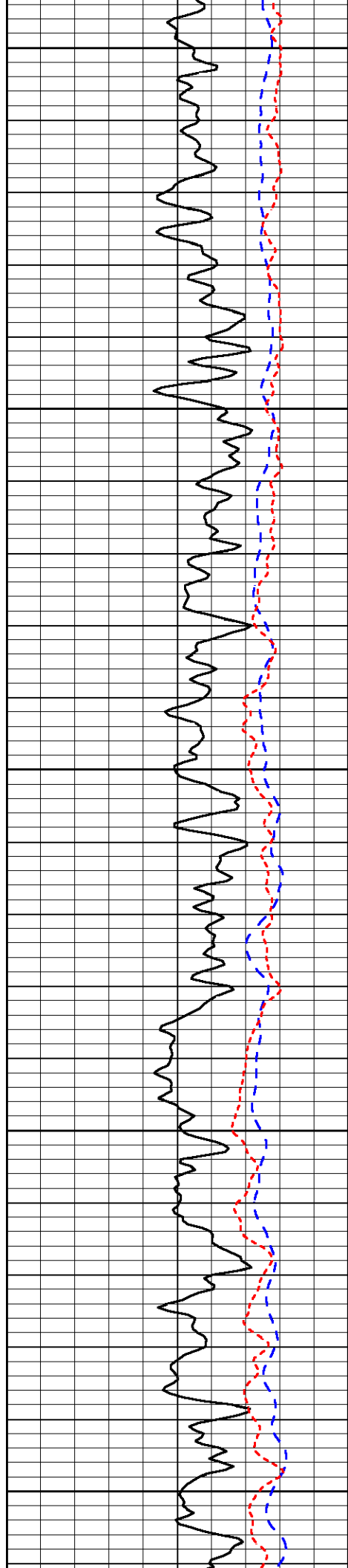


-80

-79

-79

-79



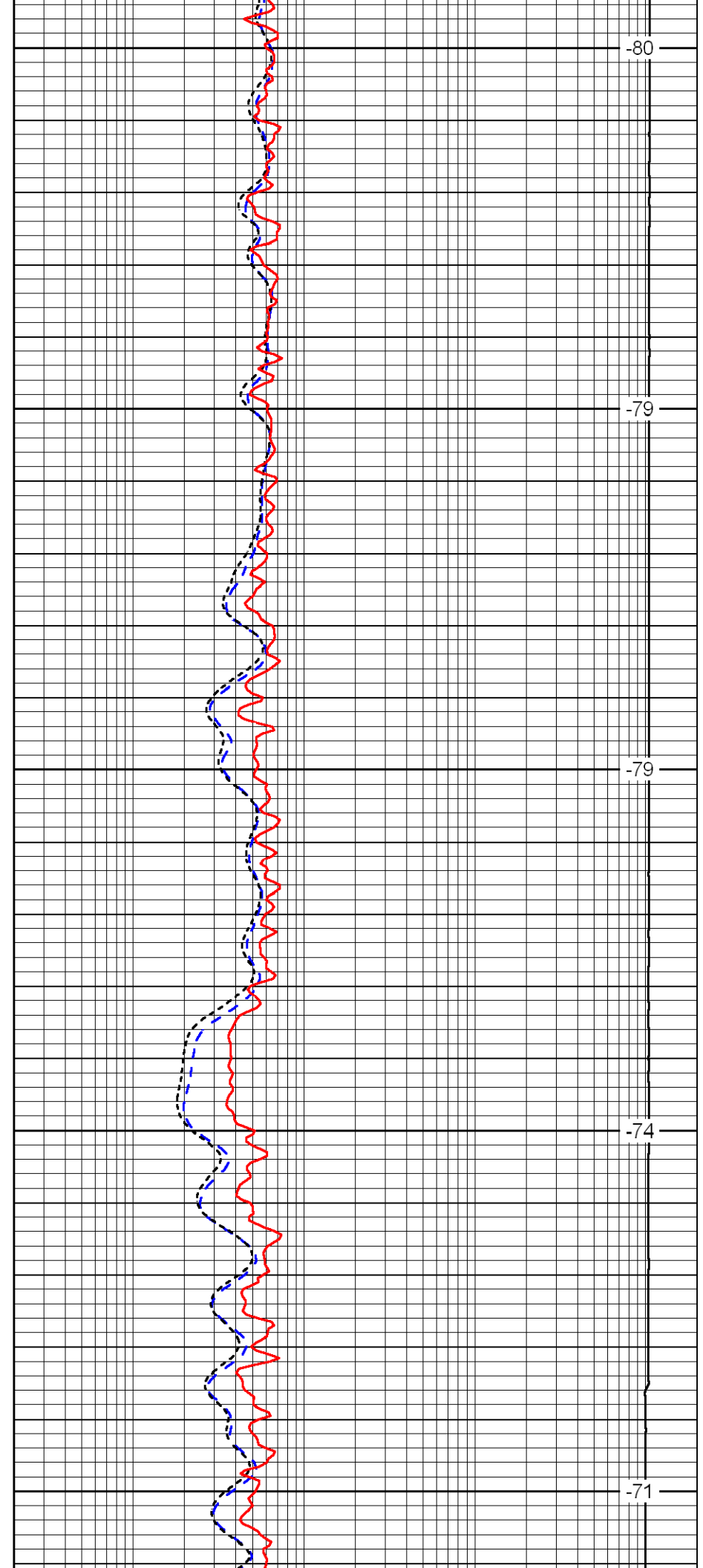
1500

1550

1600

1650

1700



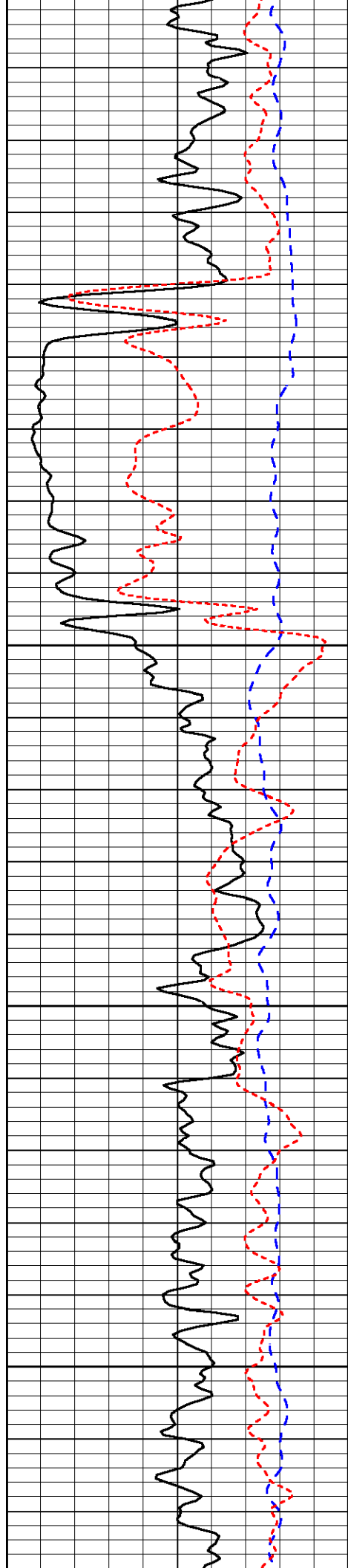
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-79

-79

-74

-71

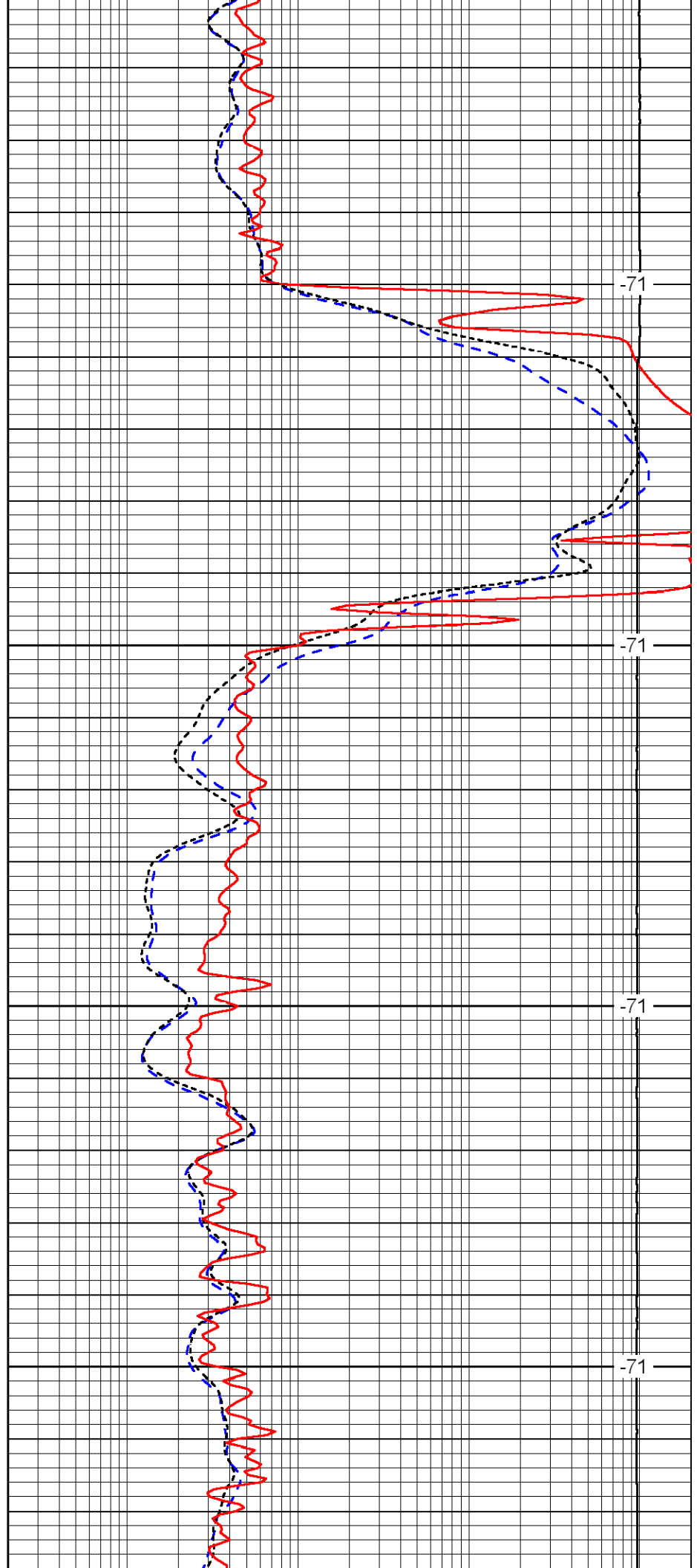


1750

1800

1850

1900

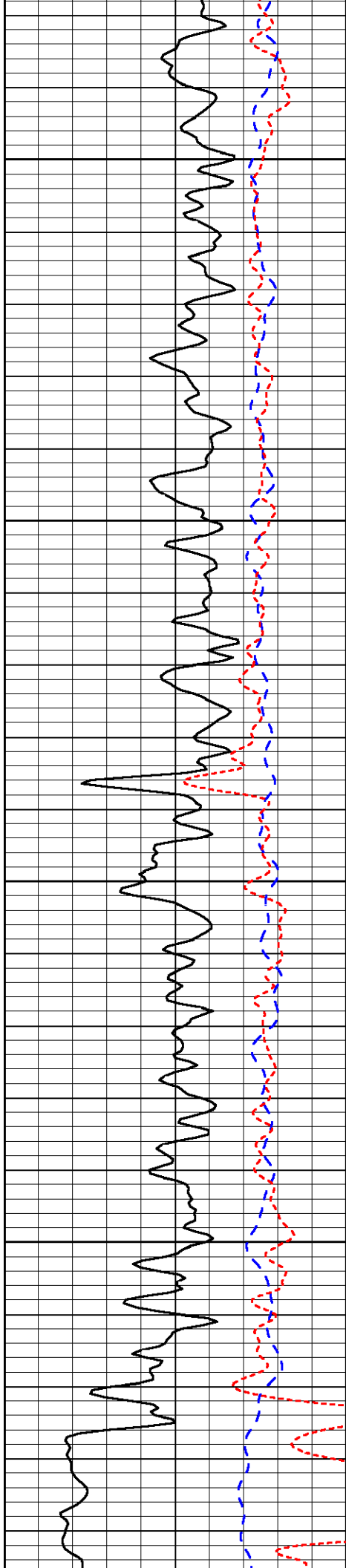


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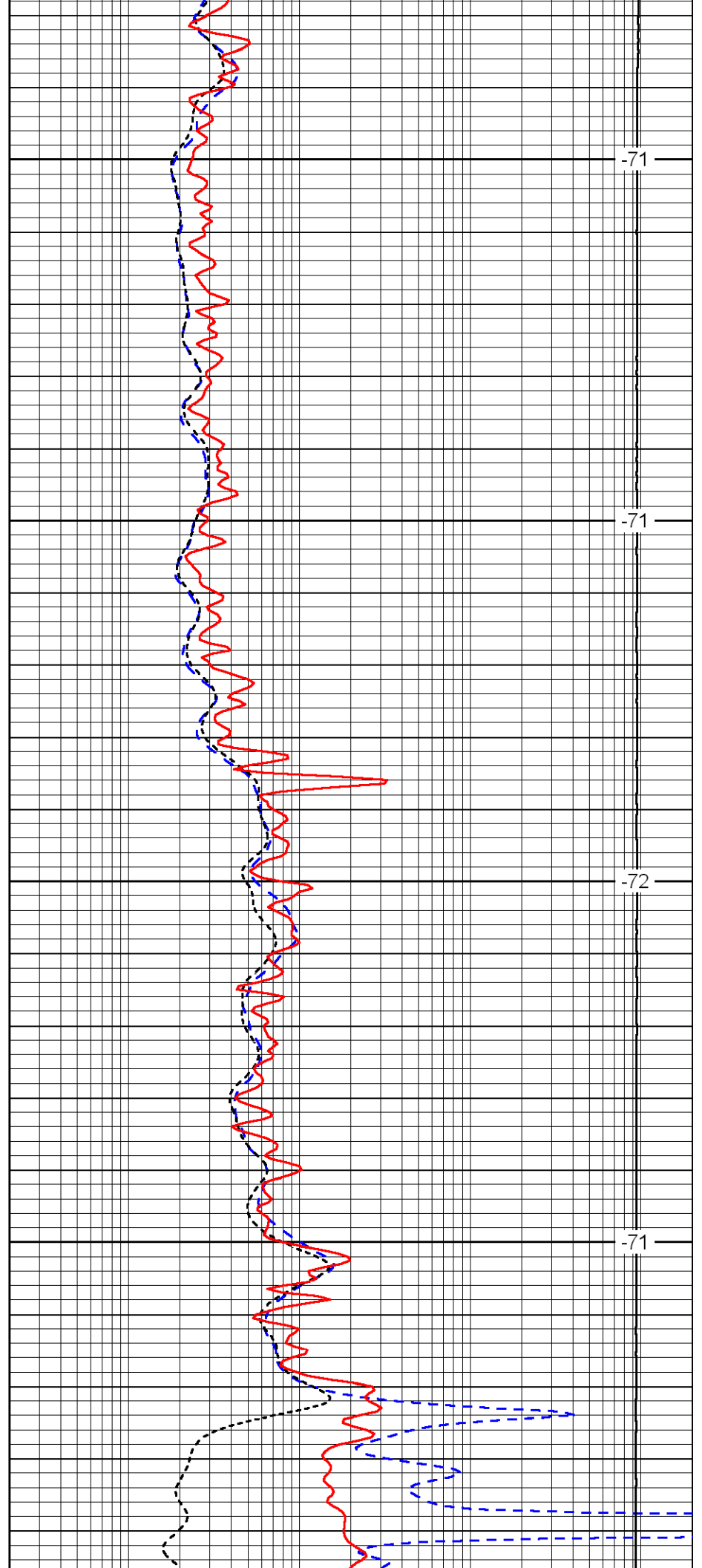


1950

2000

2050

2100

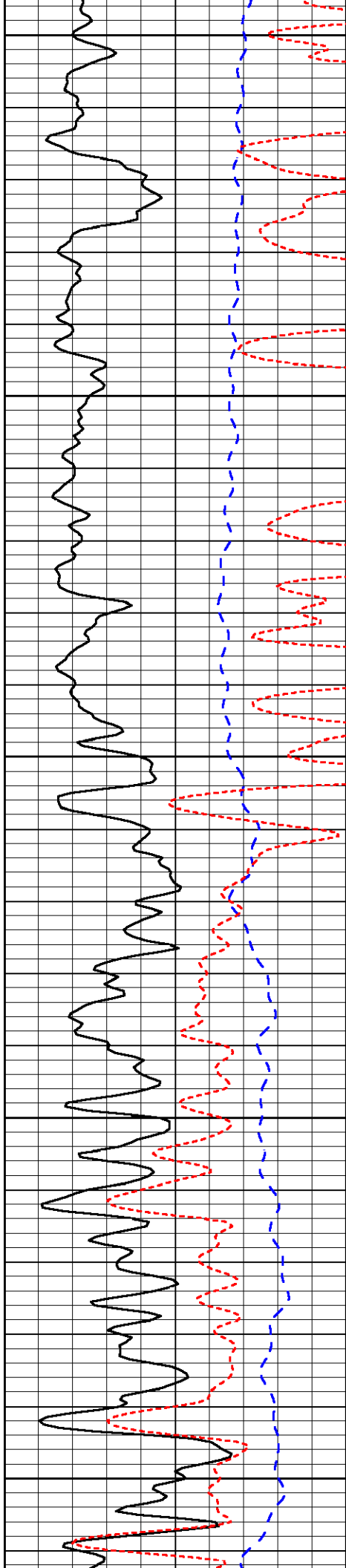


-71

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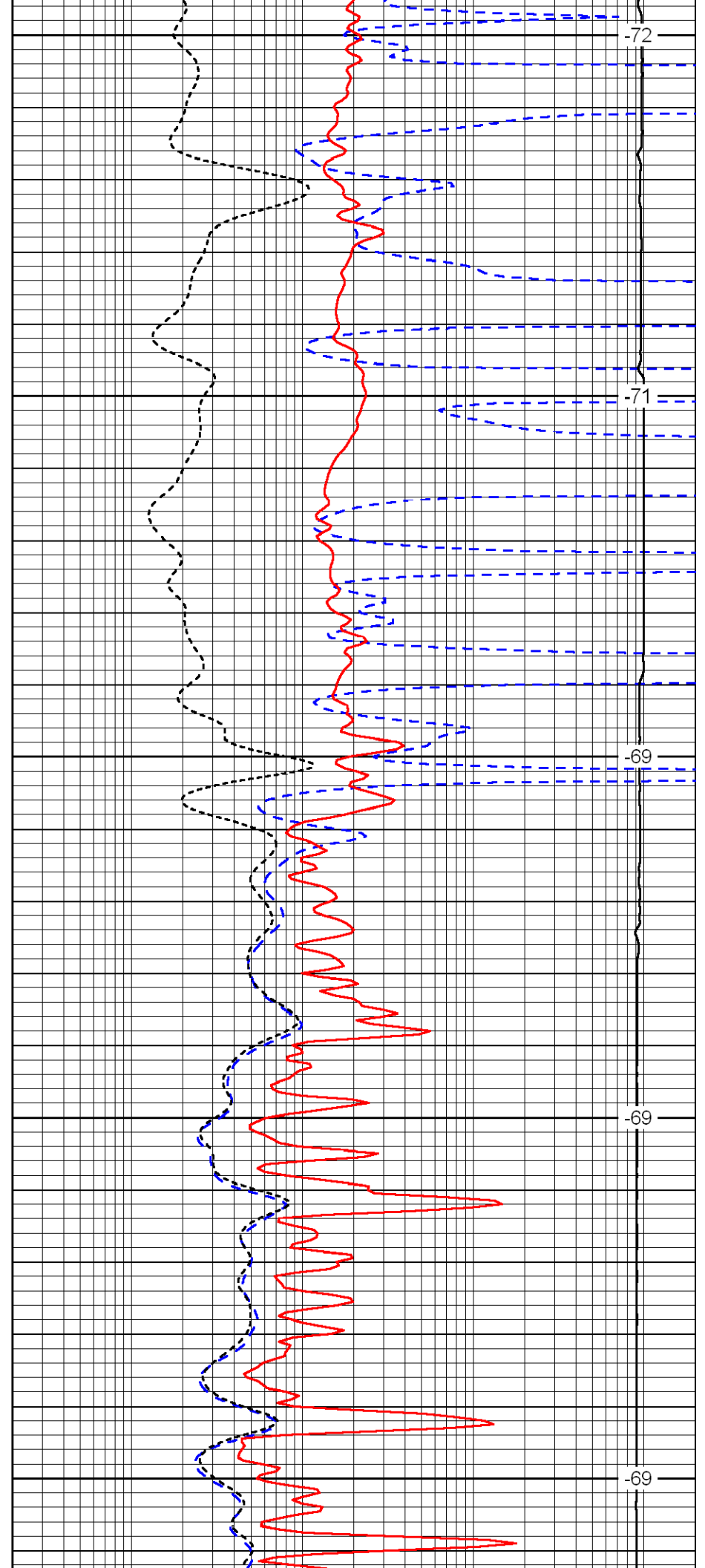
2150

2200

2250

2300

2350



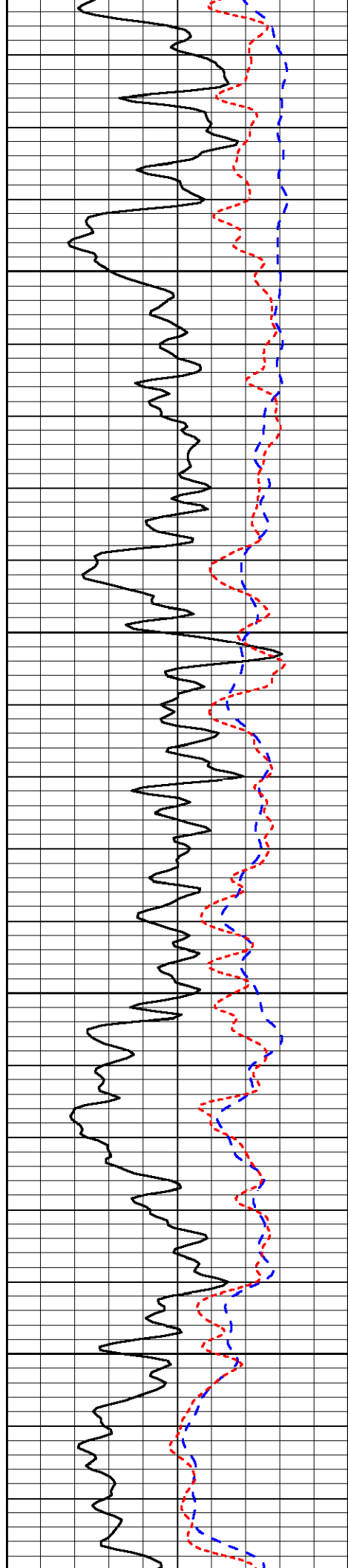
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-71

-69

-69

-69

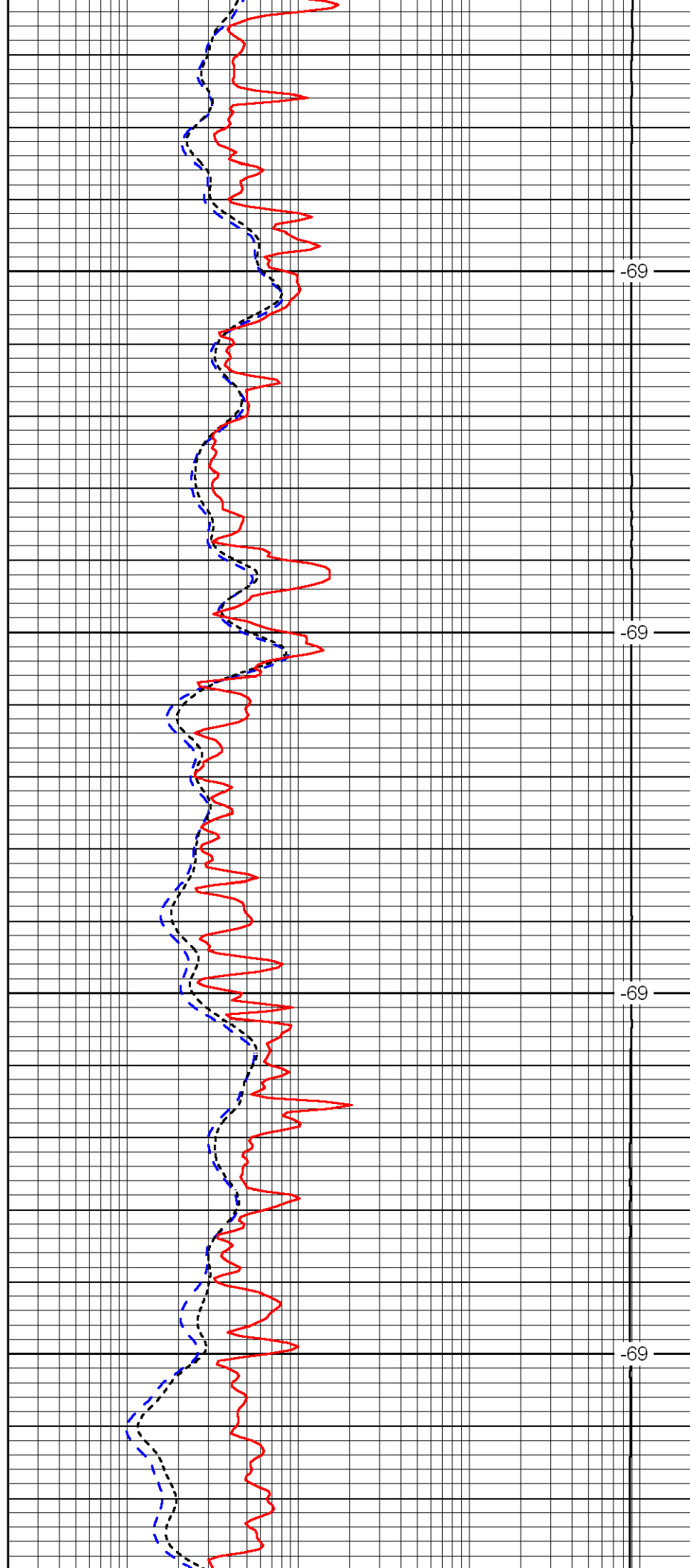


2400

2450

2500

2550

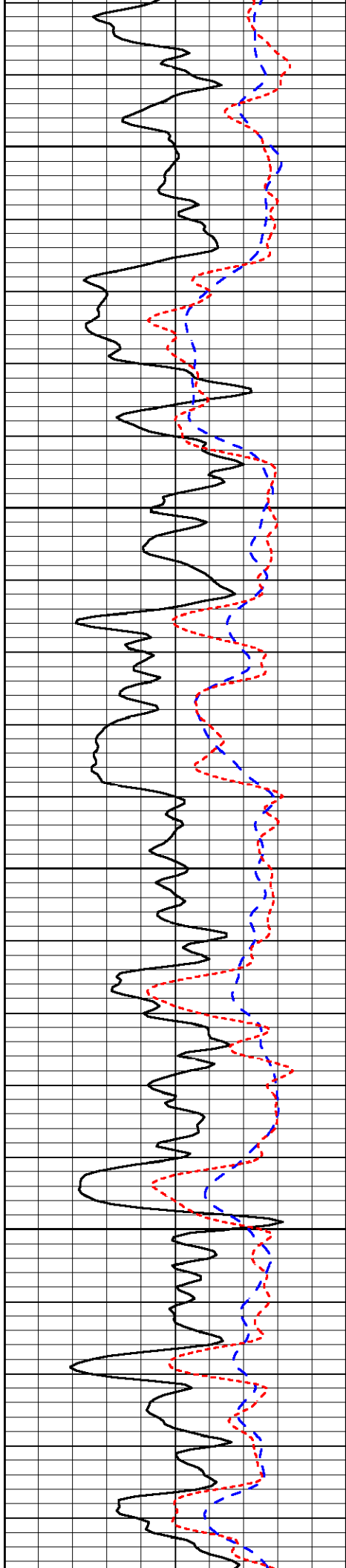


-69

-69

-69

-69

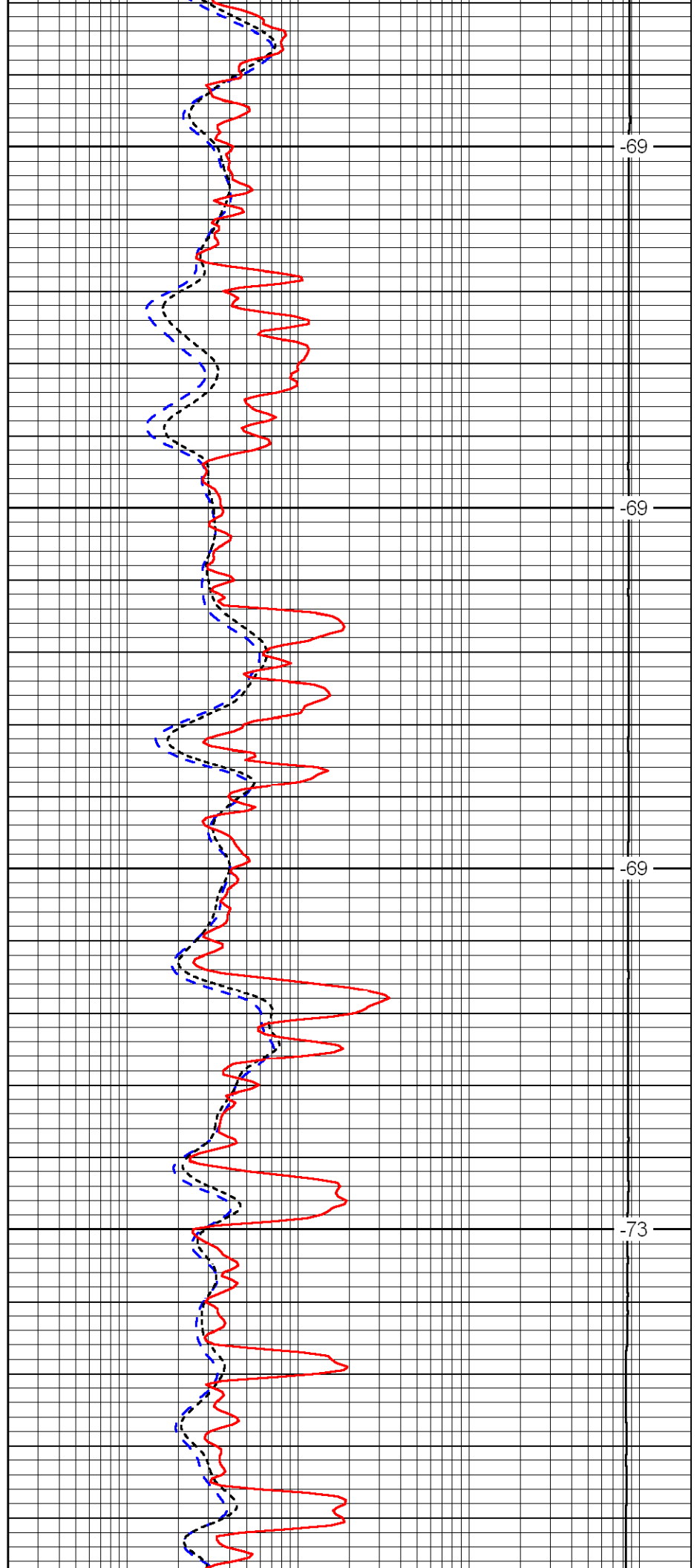


2600

2650

2700

2750

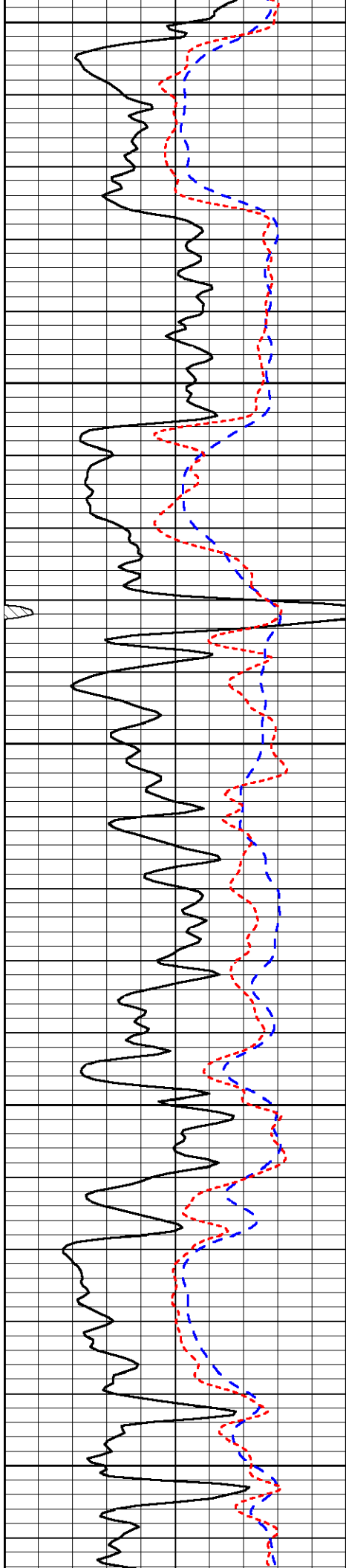


-69

-69

-69

-73



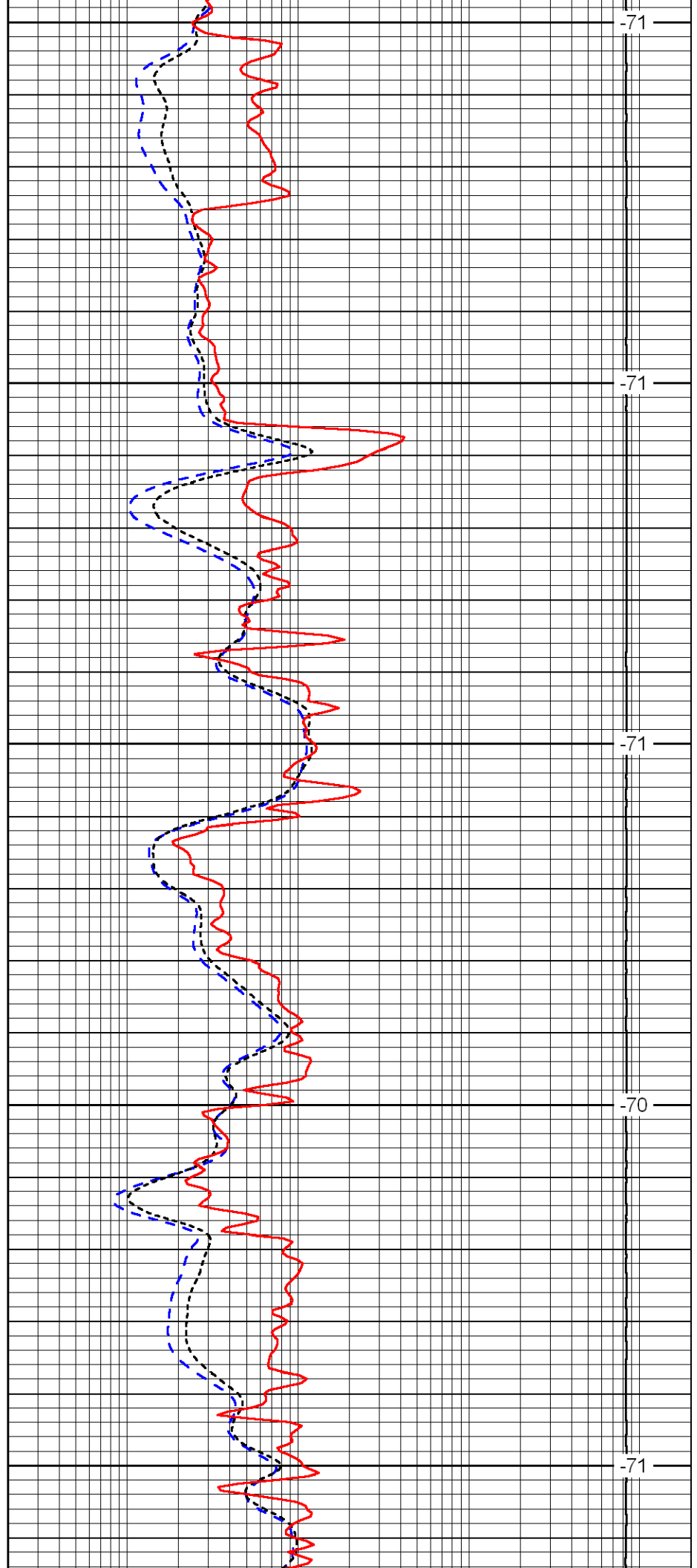
2800

2850

2900

2950

3000



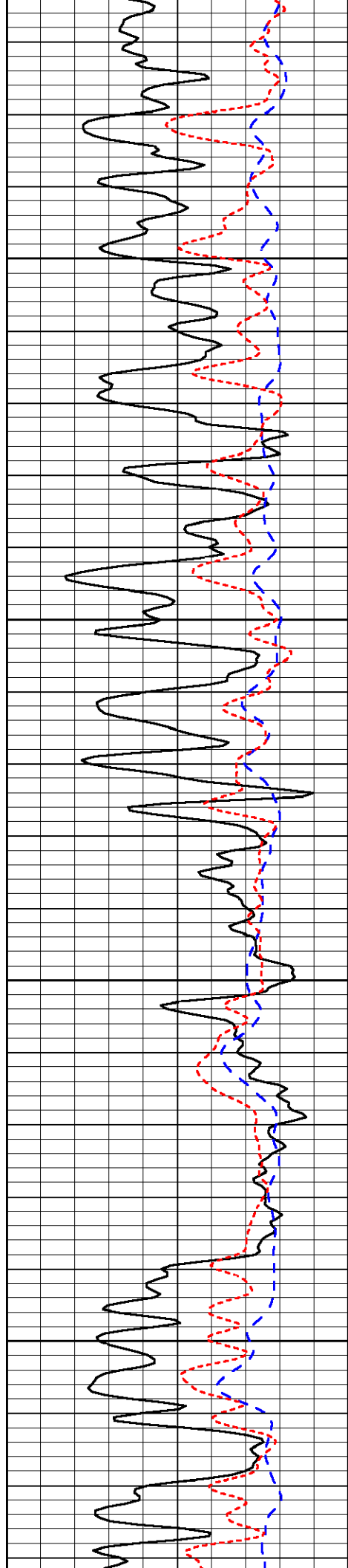
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-71

-71

-70

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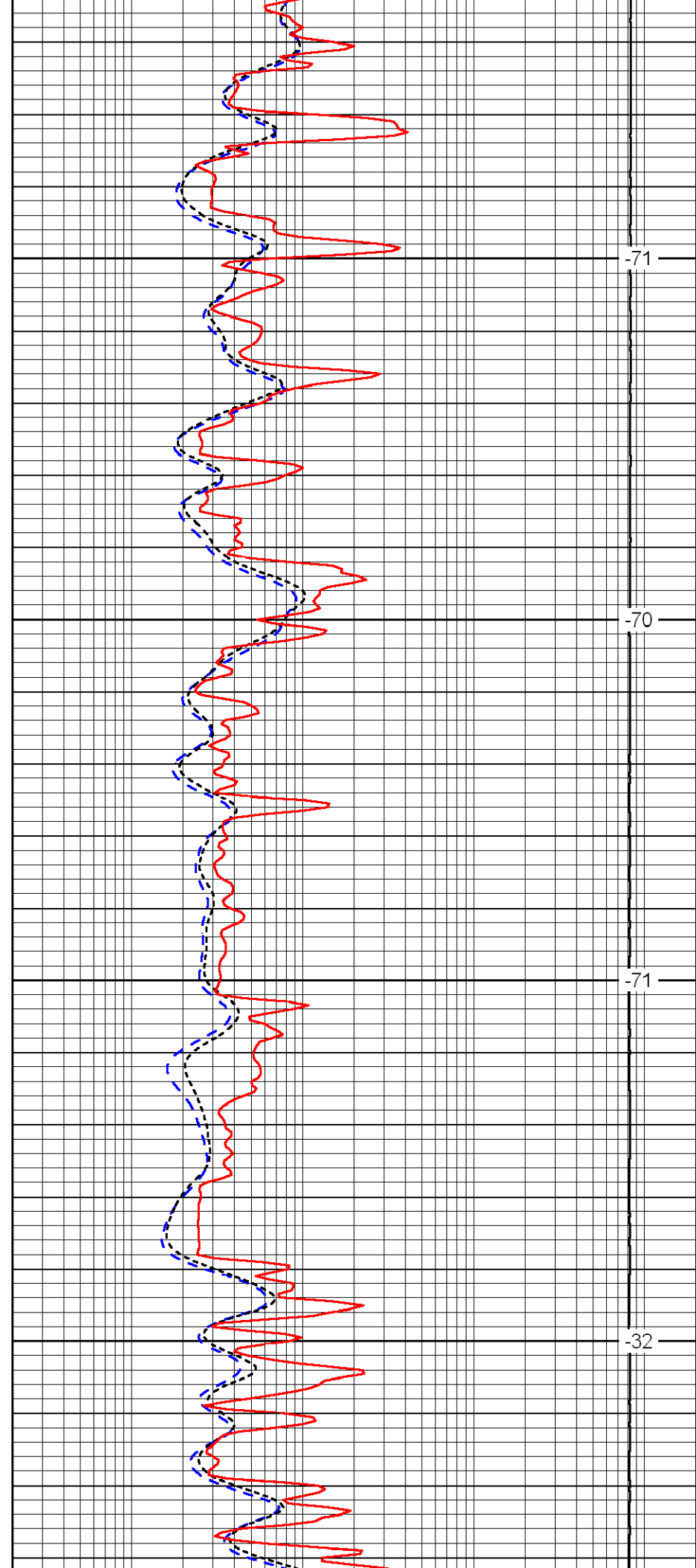


3050

3100

3150

3200

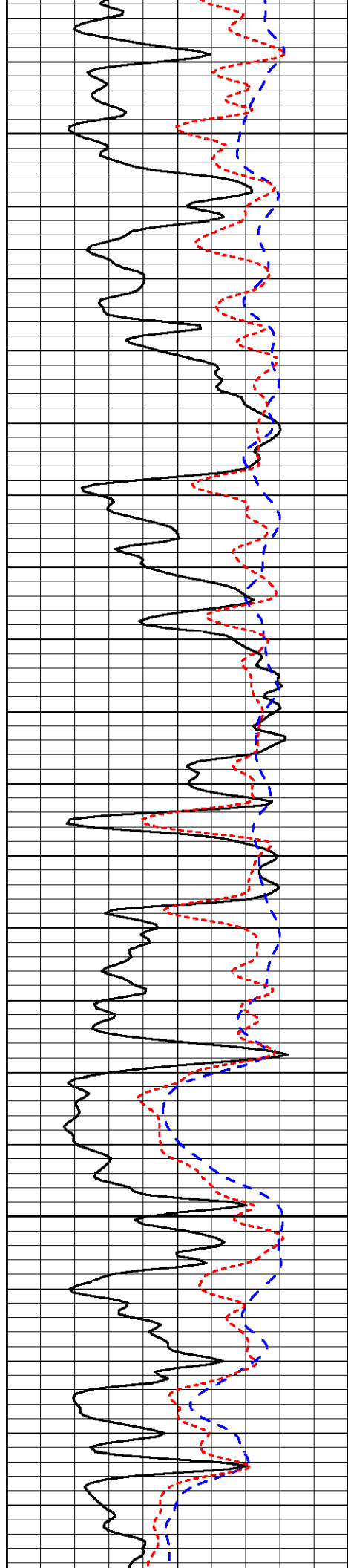


-71

-70

-71

-32

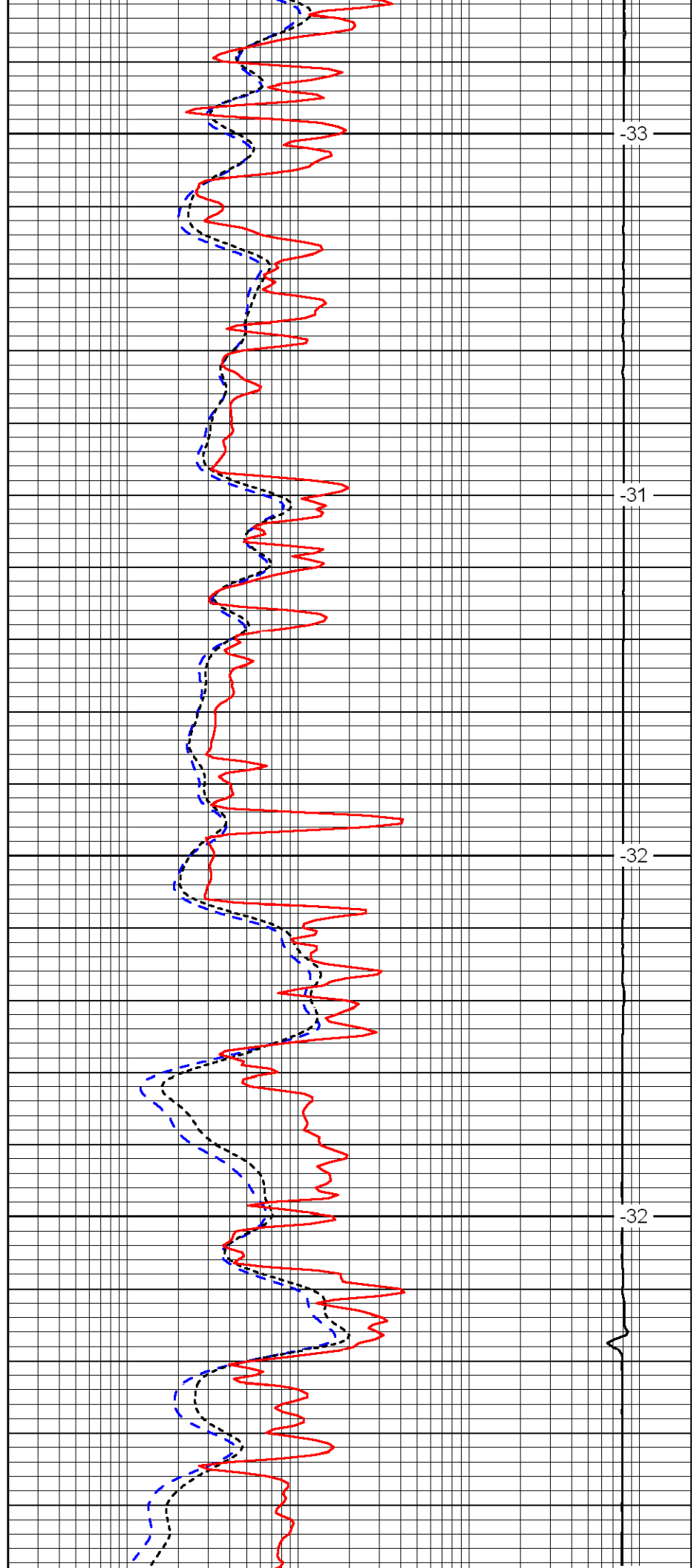


3250

3300

3350

3400

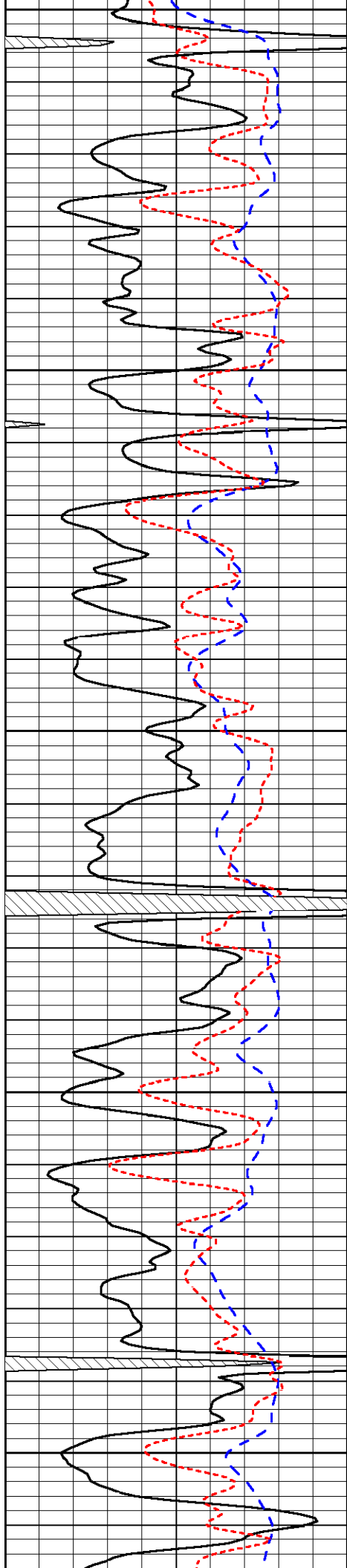


-33

-31

-32

-32



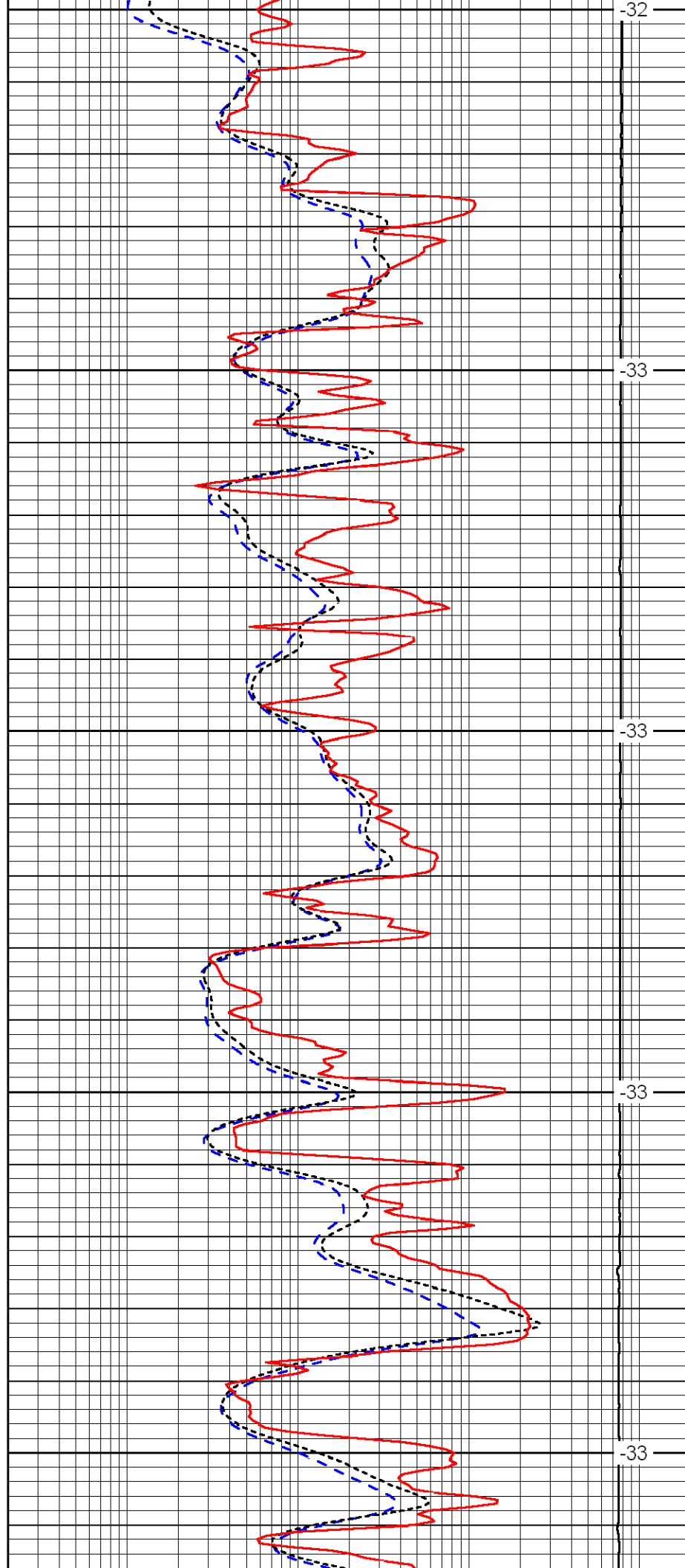
3450

3500

3550

3600

3650



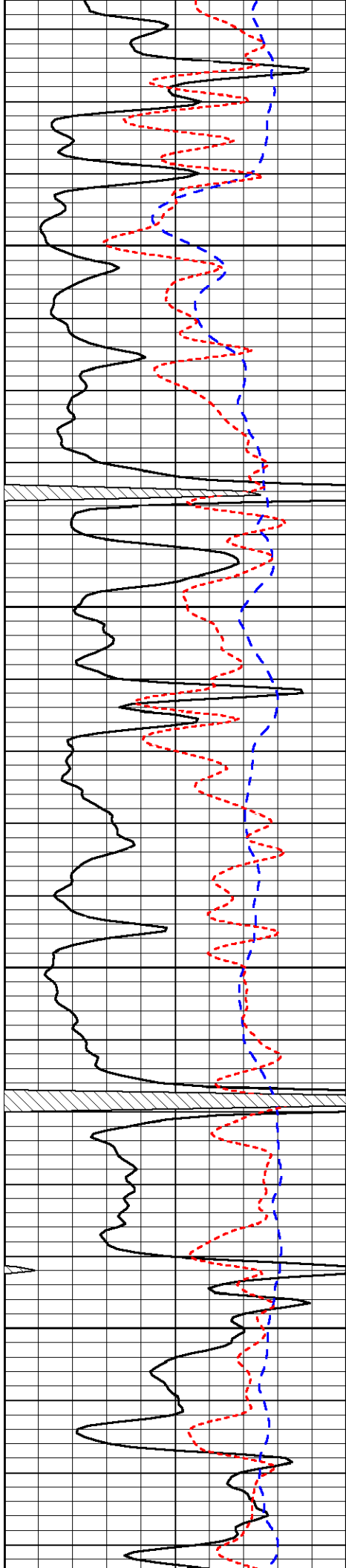
-32

-33

-33

-33

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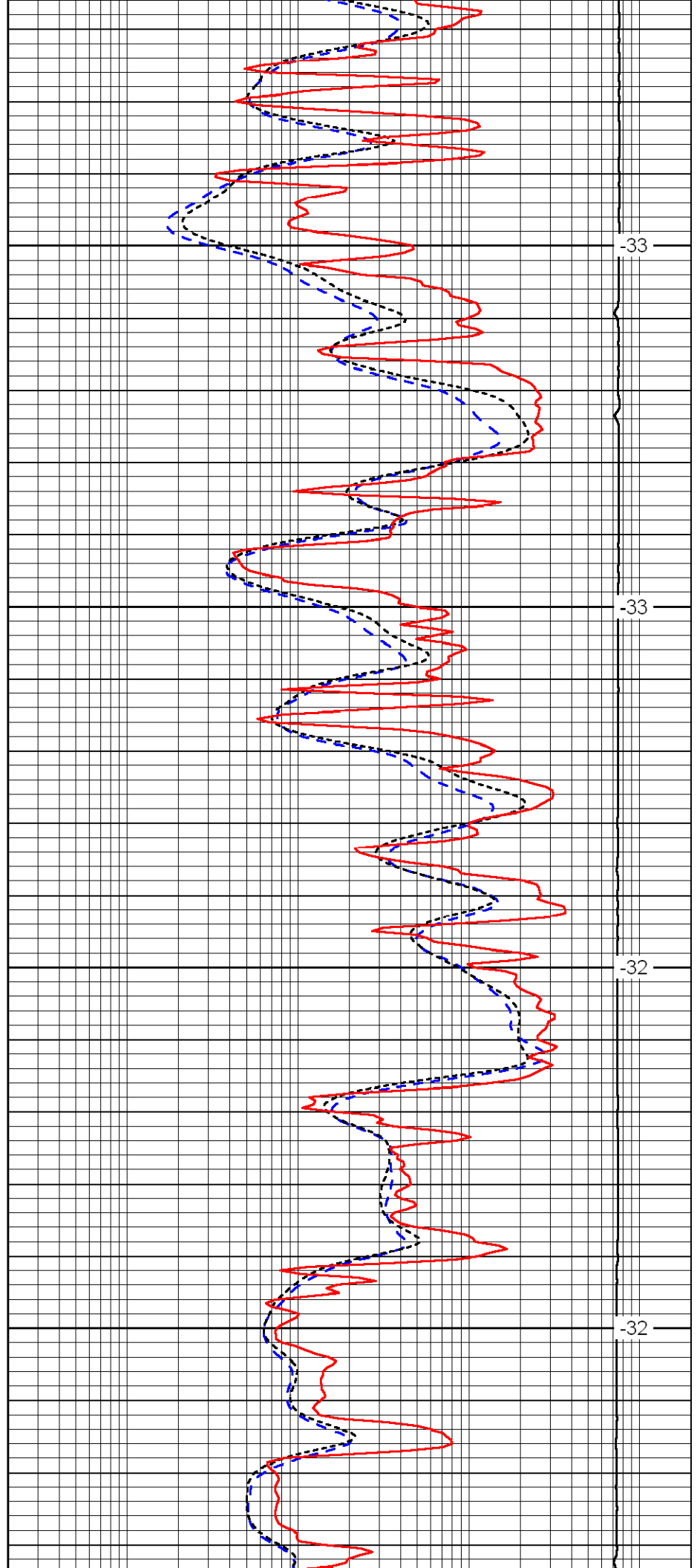


3700

3750

3800

3850

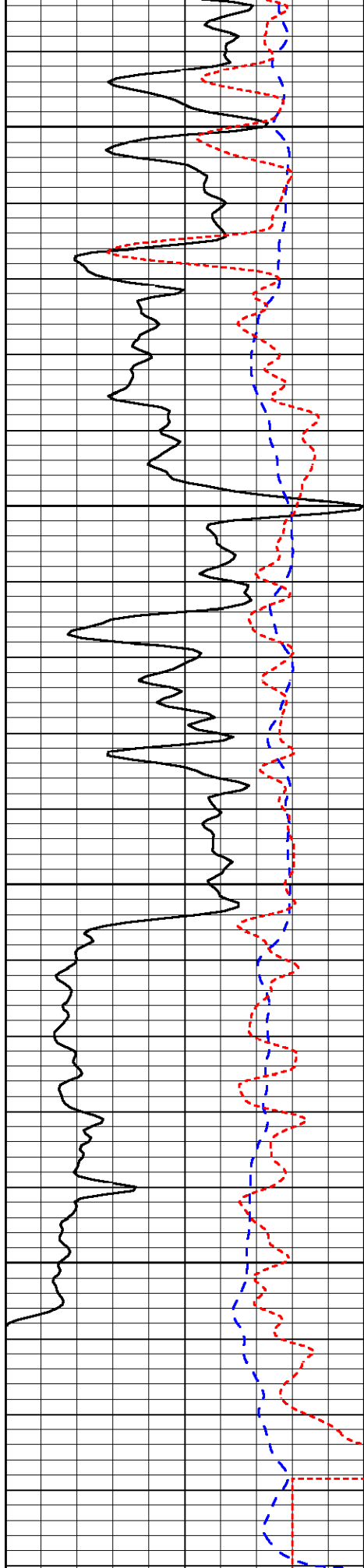


-33

-33

-32

-32



3900

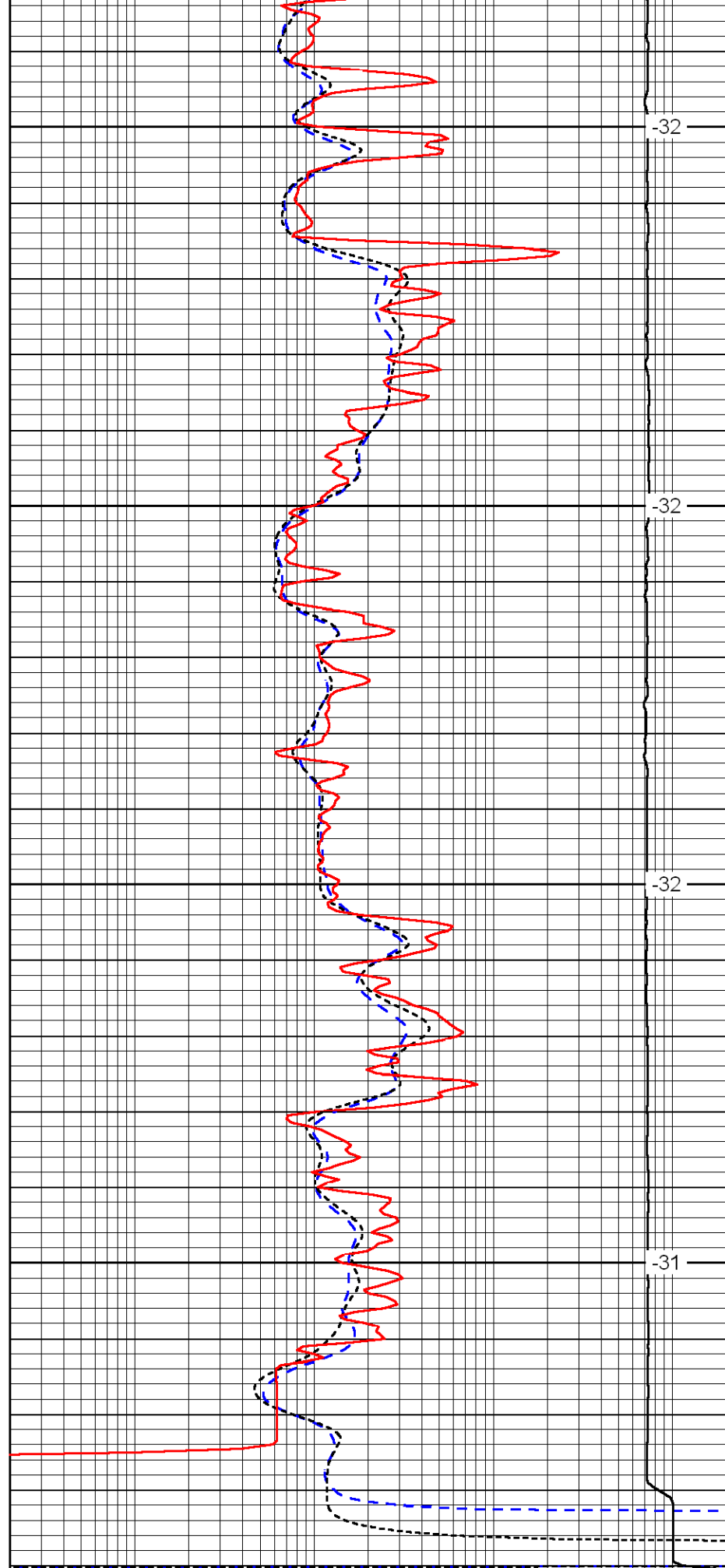
3950

4000

4050

0      Gamma Ray      150

-200      SP (MV)      0



-32

-32

-32

-31

0.2      Deep Resistivity (Ohm-m)      2000

0.2      Medium Resistivity (Ohm-m)      2000

-160 Rxo / Rt 40

0.2 Shallow Resistivity (Ohm-m) 2000

15000 Line Tension (lb) 0

LSPD  
(ft/min)