



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.	Company American Warrior, Inc.			
15-055-22387-00-00	Well O'Brate-Finney #6-5			
	Field Wildcat			
	County	Finney	State	Kansas
	Location	357' FNL & 2497' FEL		
	Sec: 5	Twp: 23S	Rge: 32W	Other Services CNL/CDL MEL
	Permanent Datum	Ground Level	Elevation 2861	Elevation
	Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	K.B. 2872
	Drilling Measured From	Kelly Bushing		D.F. 2861
				G.L. 2861
Date		3/30/2015		
Run Number		One		
Depth Driller		4950		
Depth Logger		4949		
Bottom Logged Interval		4948		
Top Log Interval		1750		
Casing Driller		8.625 @ 1774		
Casing Logger		1774		
Bit Size		7.875		
Type Fluid in Hole		Chemical		
Salinity, ppm CL		4200		
Density / Viscosity		9.45 52		
pH / Fluid Loss		9.0 8.8		
Source of Sample		Flowline		
Rm @ Meas. Temp		0.99 @ 80		
Rmf @ Meas. Temp		0.74 @ 80		
Rmc @ Meas. Temp		1.34 @ 80		
Source of Rmf / Rmc		Charts		
Rm @ BHT		0.63 @ 126		
Operating Rig Time		3 Hours		
Max Rec. Temp. F		126		
Equipment Number		15		
Location		Hays		
Recorded By		D.Kerr		
Witnessed By		Luke Thompson		

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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 Pioneer Energy Services
www.pioneeres.com
785 625 3858

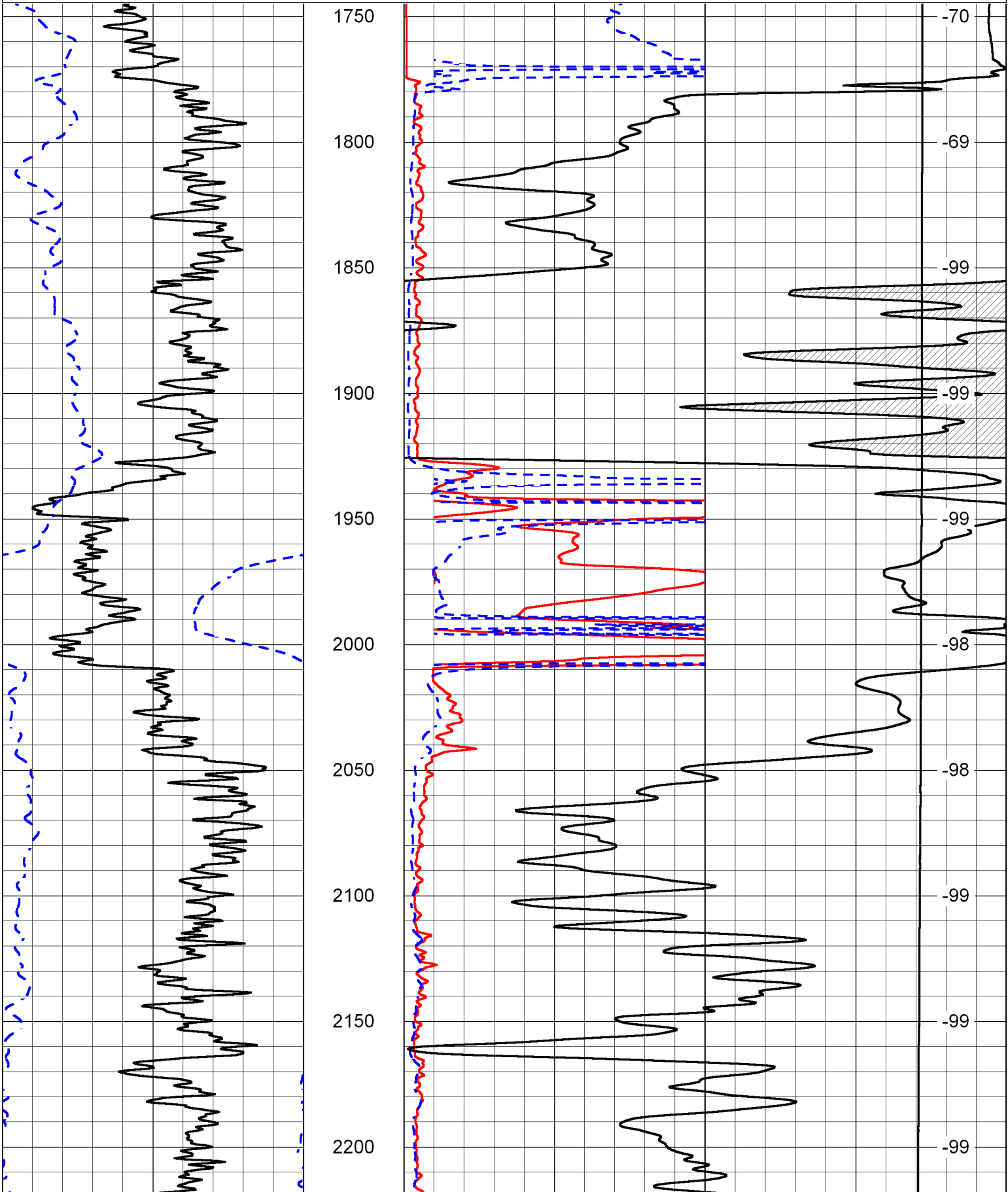
Garden City KS, 5 North to Six Mile RD,
1 East to 3rd Ave. 1 1/2 North, East Into

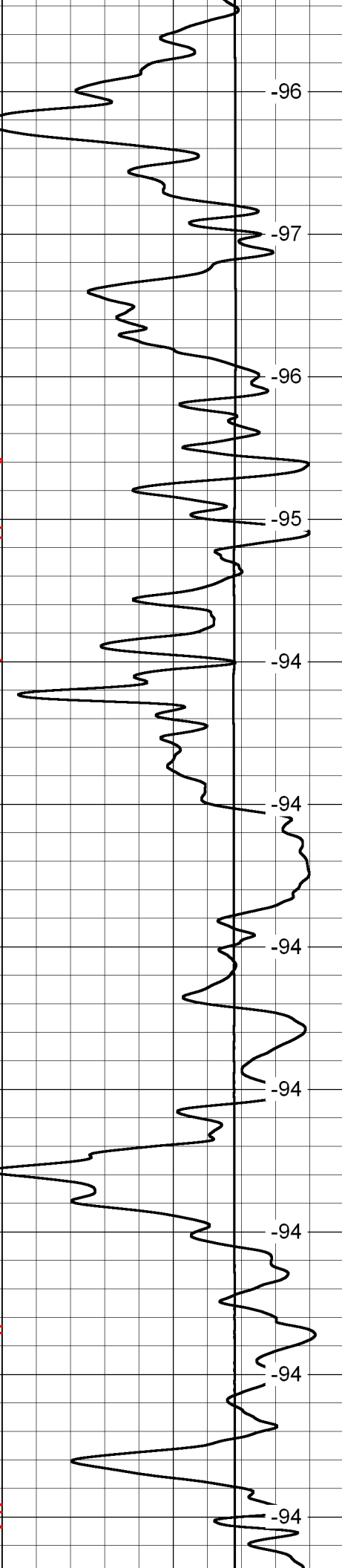
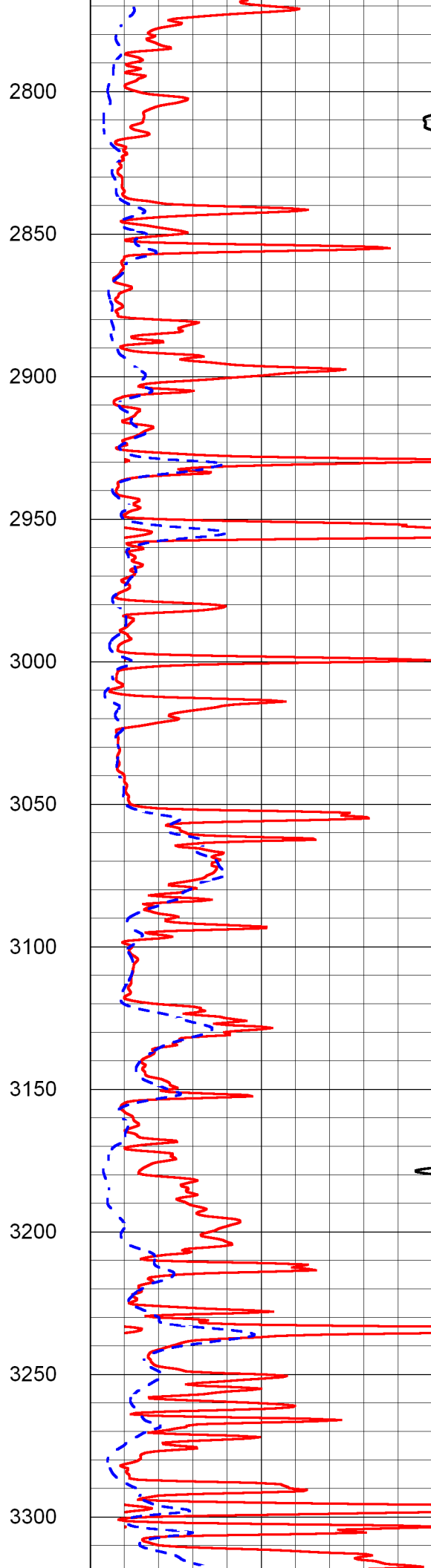
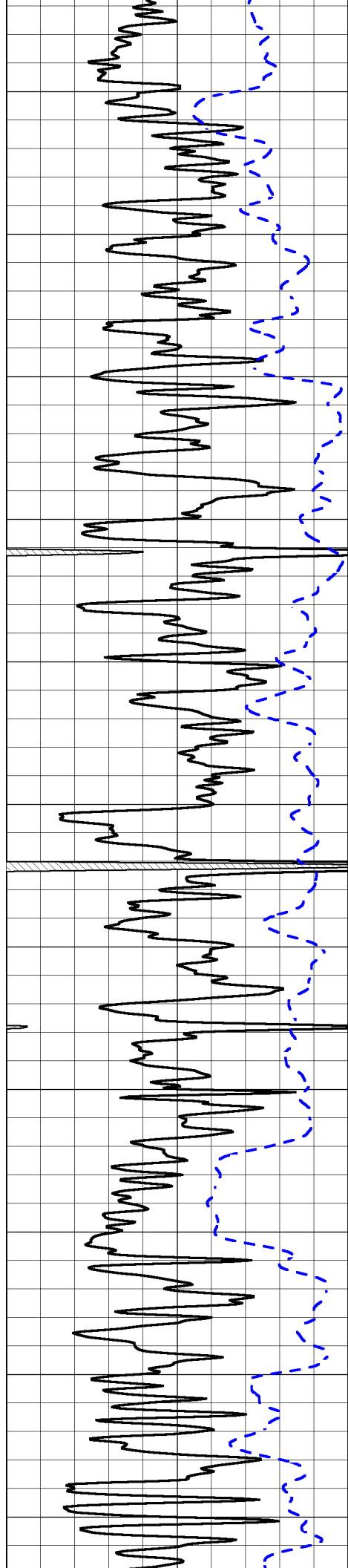
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Dataset Pathname	DIL/awmel
Presentation Format	dil2in
Dataset Creation	Mon Mar 30 16:06:39 2015
Charted by	Depth in Feet scaled 1:600

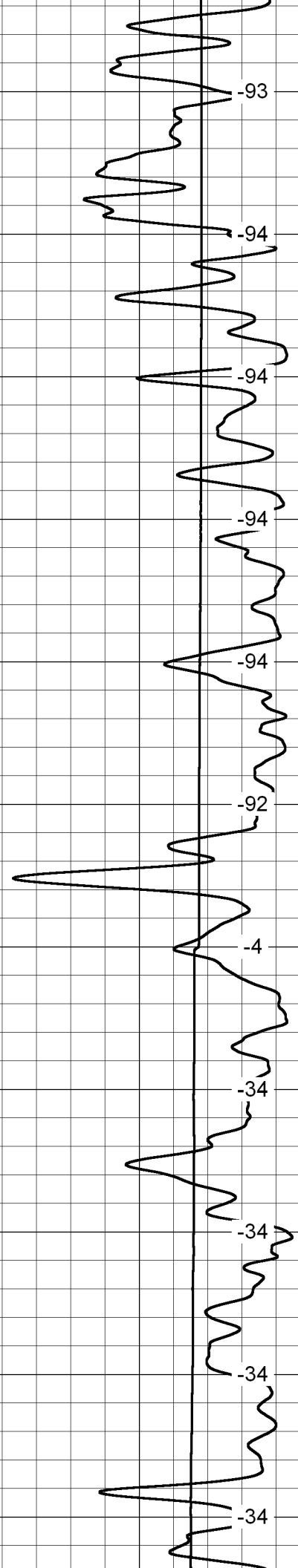
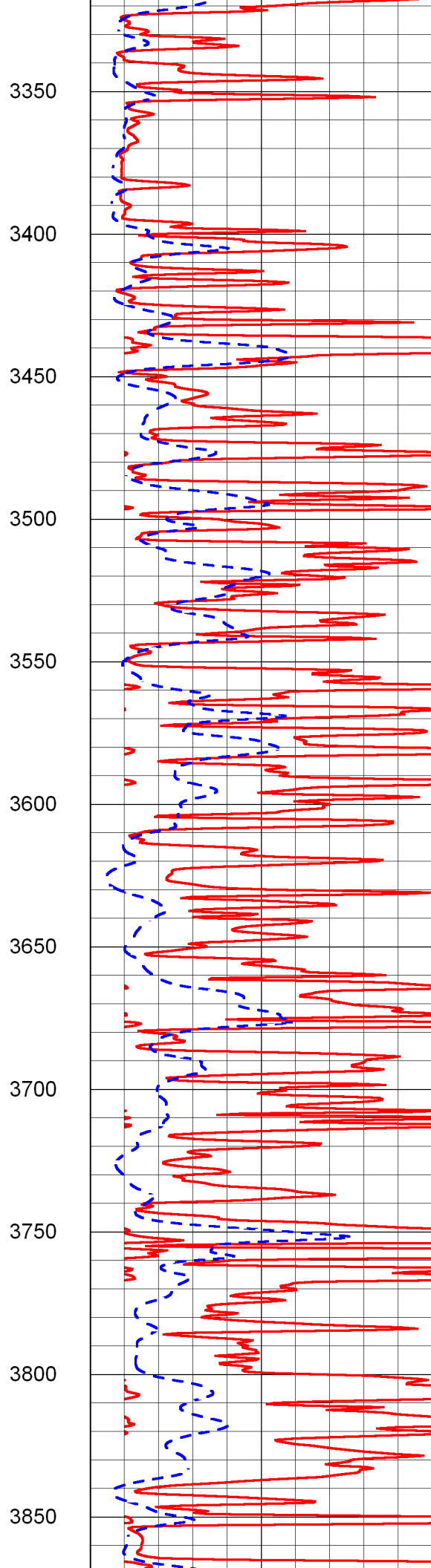
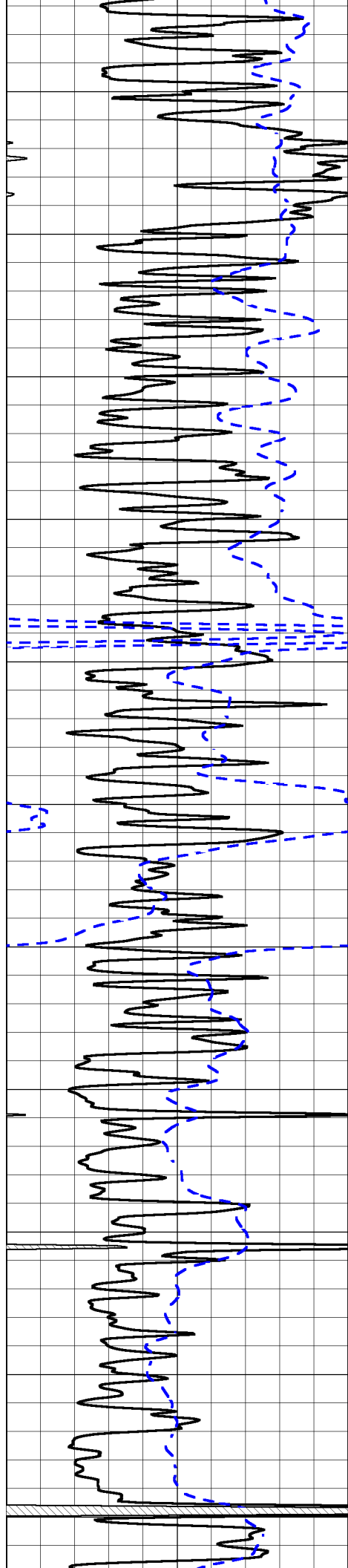
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-200	SP (mV)	0

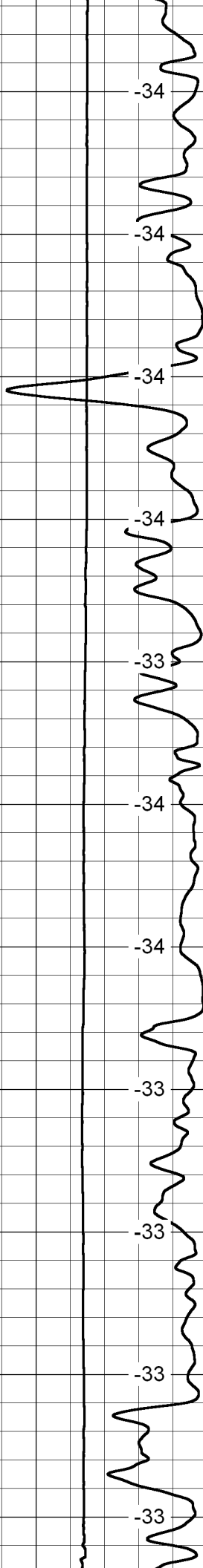
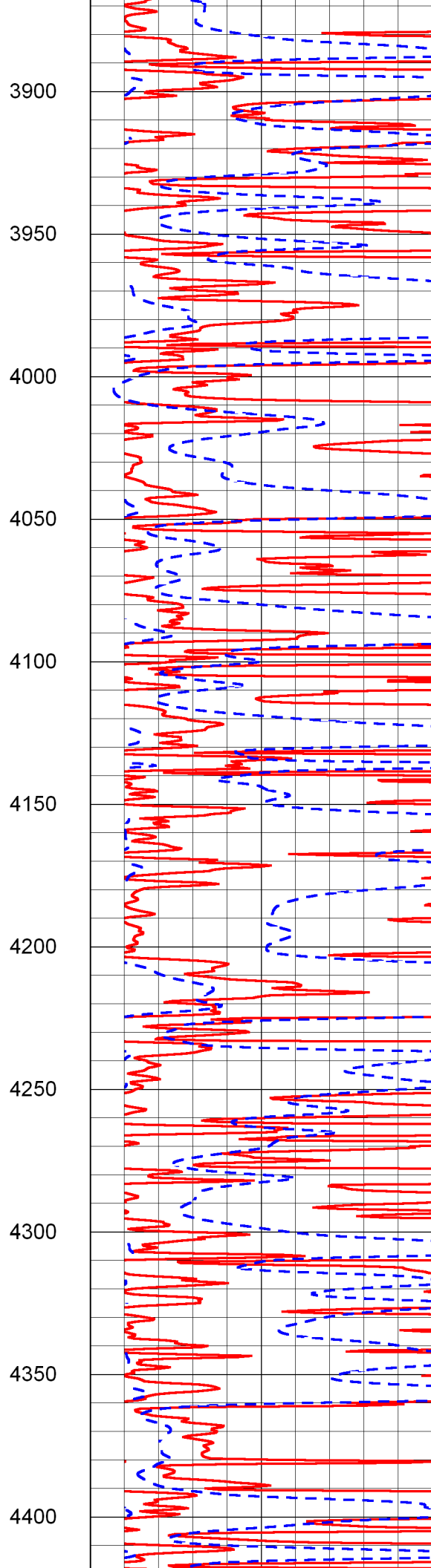
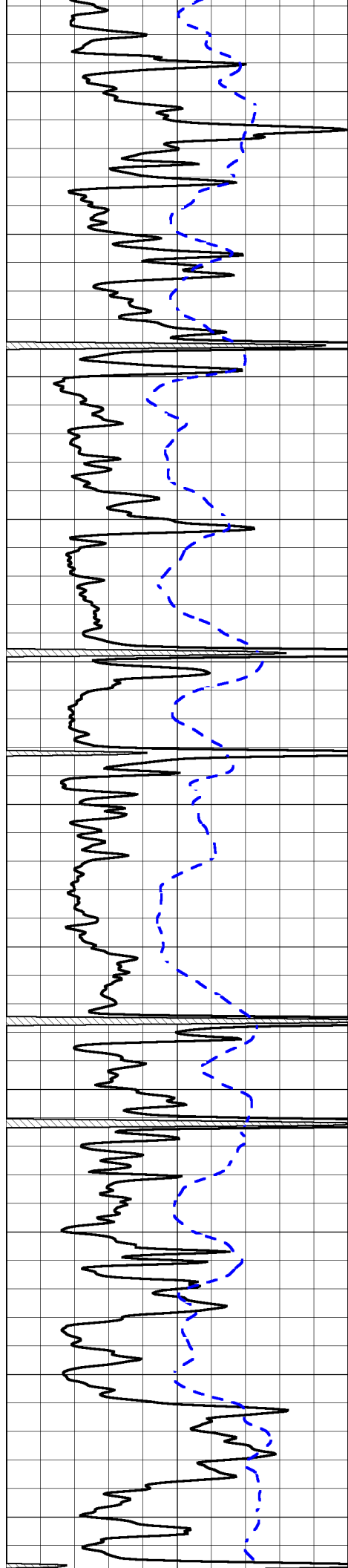
1000	Conductivity	0
15000	Line Tension	0
0	Shallow Resistivity	50
0	Deep Resistivity	50
50	Shallow Resistivity	500
50	Deep Resistivity	500

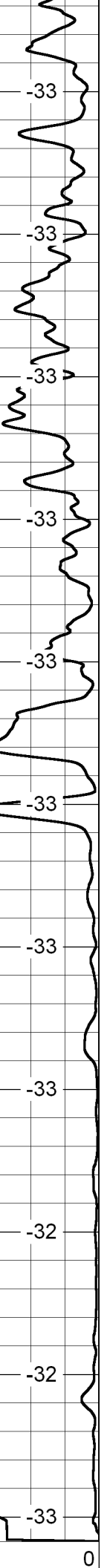
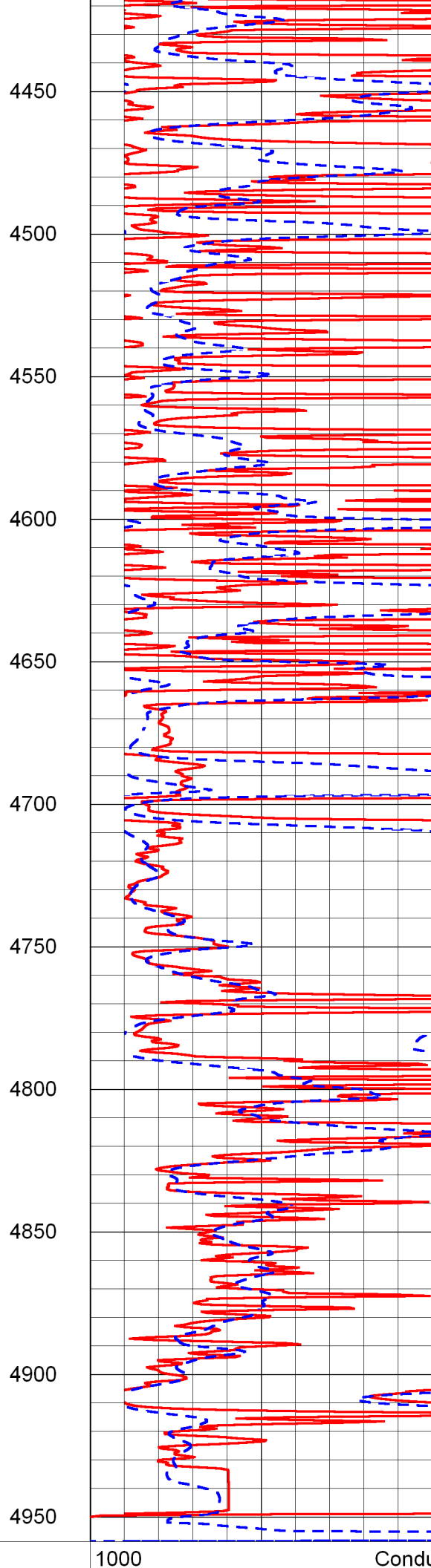
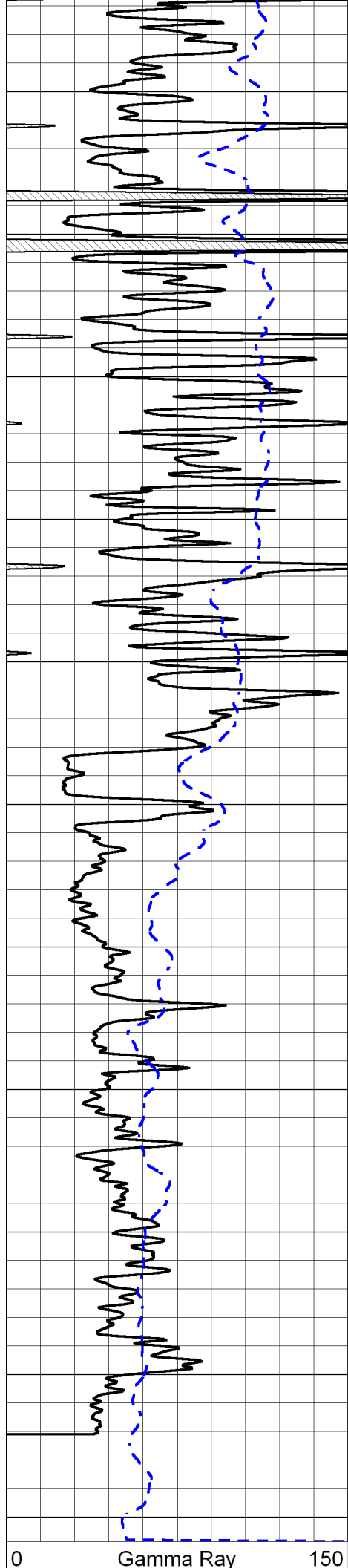
LSPD







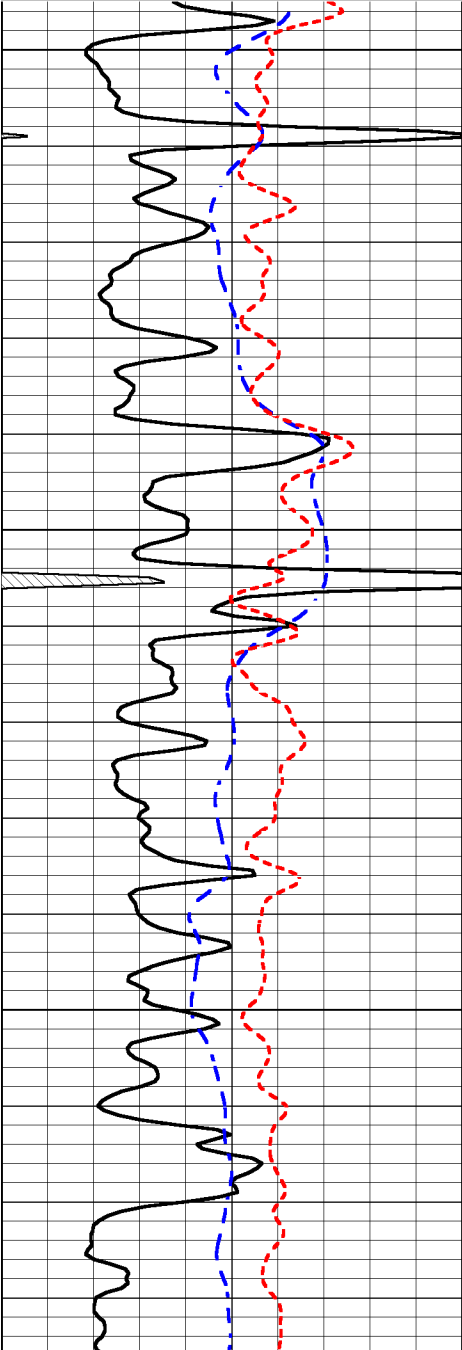




-200	SP (mV)	0

15000		Line Tension		0
0	Shallow Resistivity	50		LSPD
0	Deep Resistivity	50		
	50	Shallow Resistivity	500	
	50	Deep Resistivity	500	

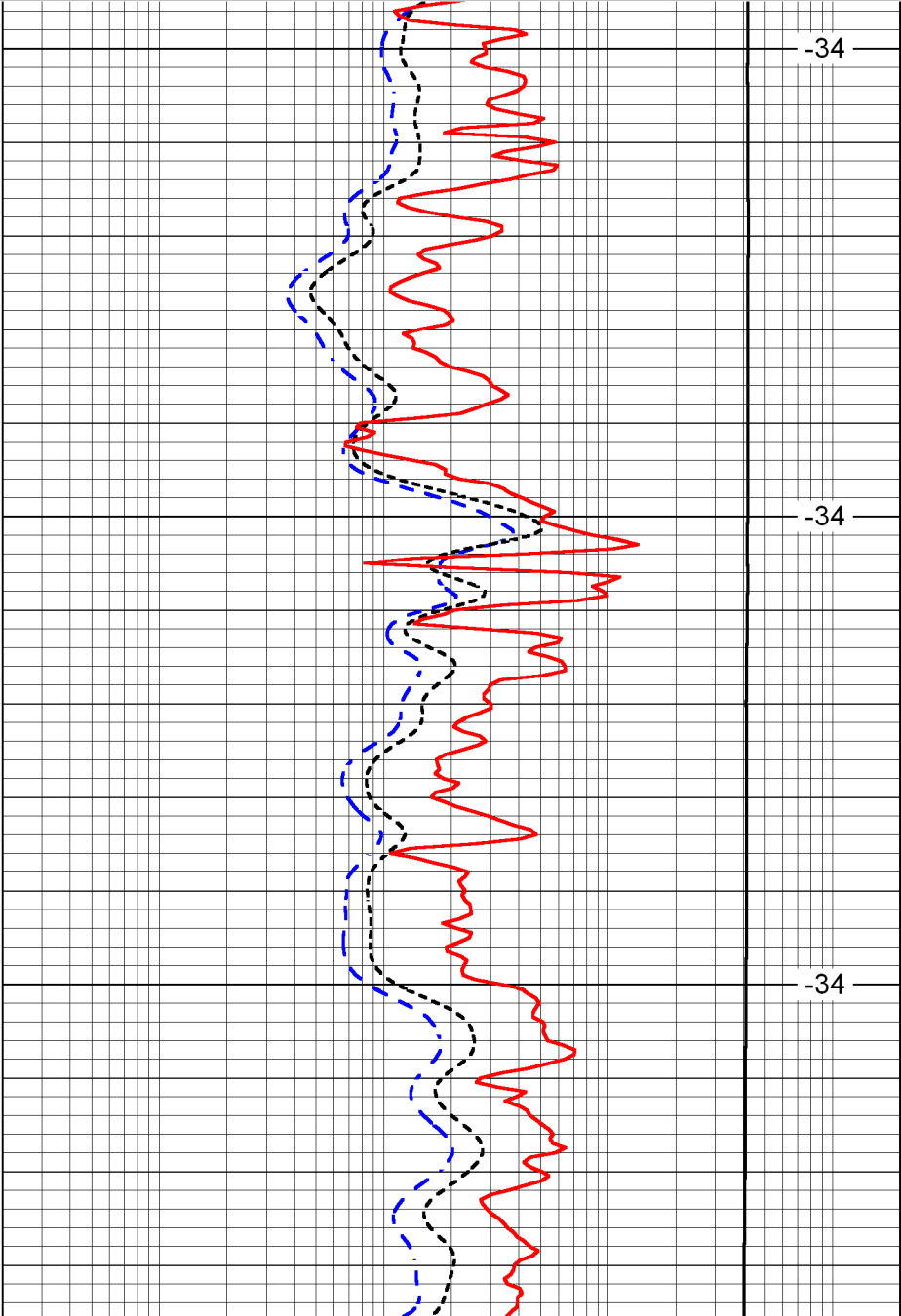
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Dataset Pathname	DIL/awmel		
Presentation Format	dil		
Dataset Creation	Mon Mar 30 16:06:39 2015		
Charted by	Depth in Feet scaled 1:240		
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-200	SP (mV)	0	
-160	RxoRt	40	
0.2	Deep Resistivity	2000	
0.2	Medium Resistivity	2000	
0.2	Shallow Resistivity	2000	
15000	Line Tension	0	
			LSPD



3700

3750

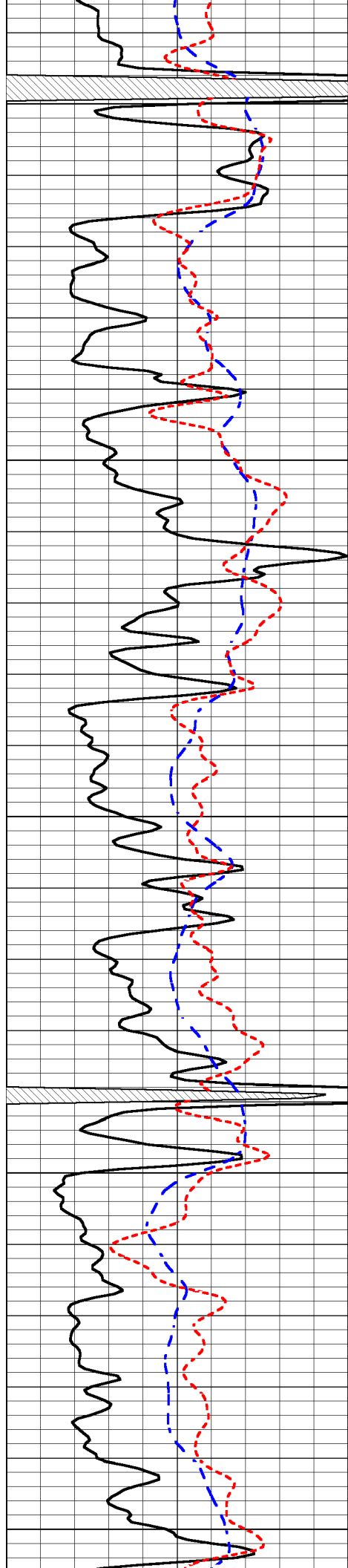
3800



-34

-34

-34



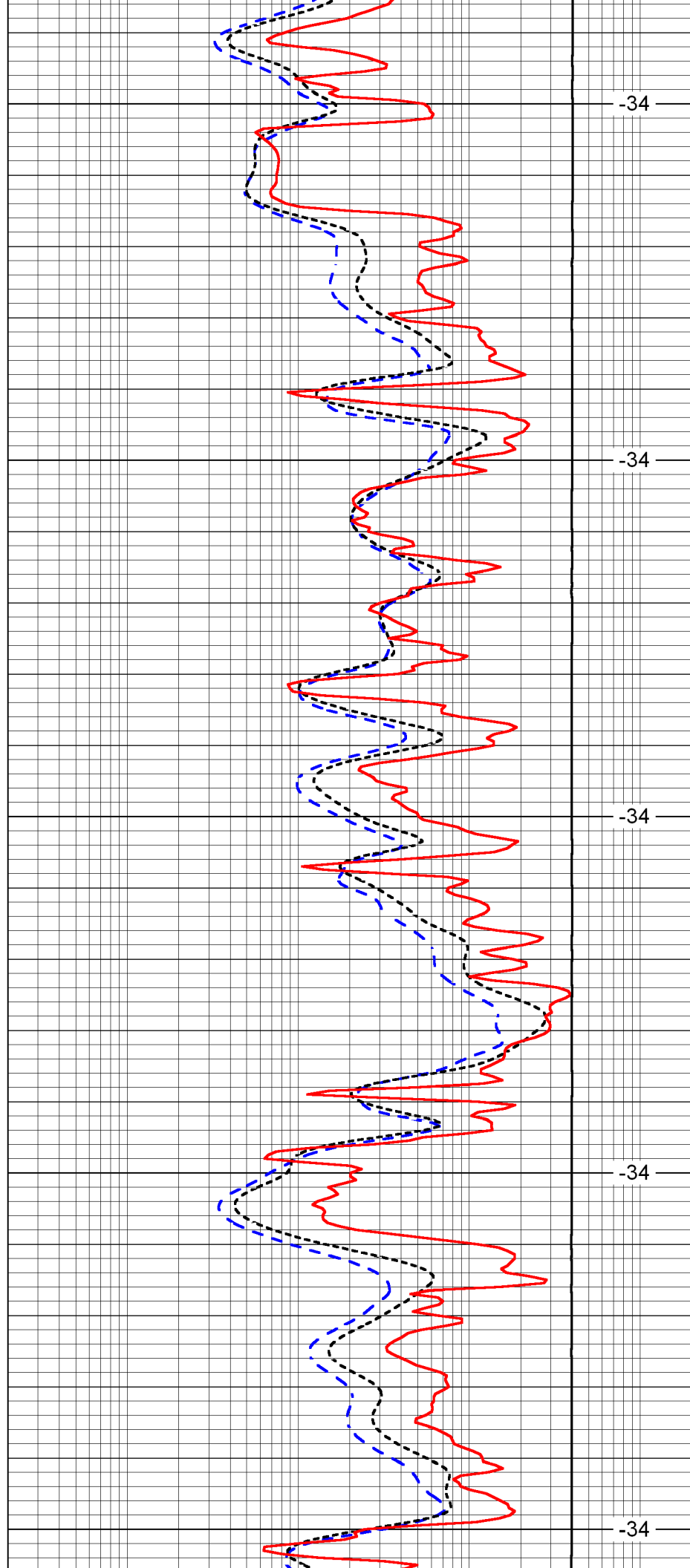
3850

3900

3950

4000

4050



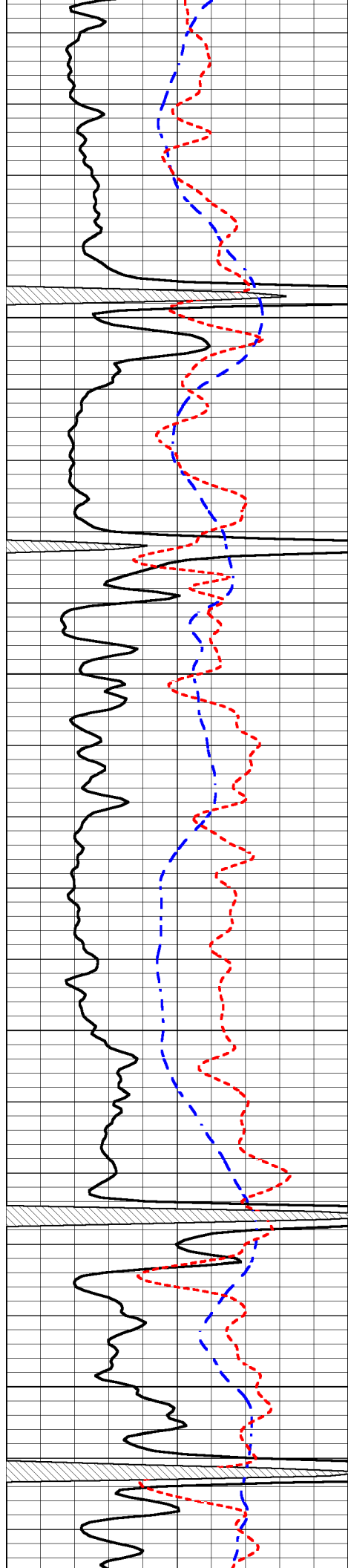
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-34

-34

-34

-34

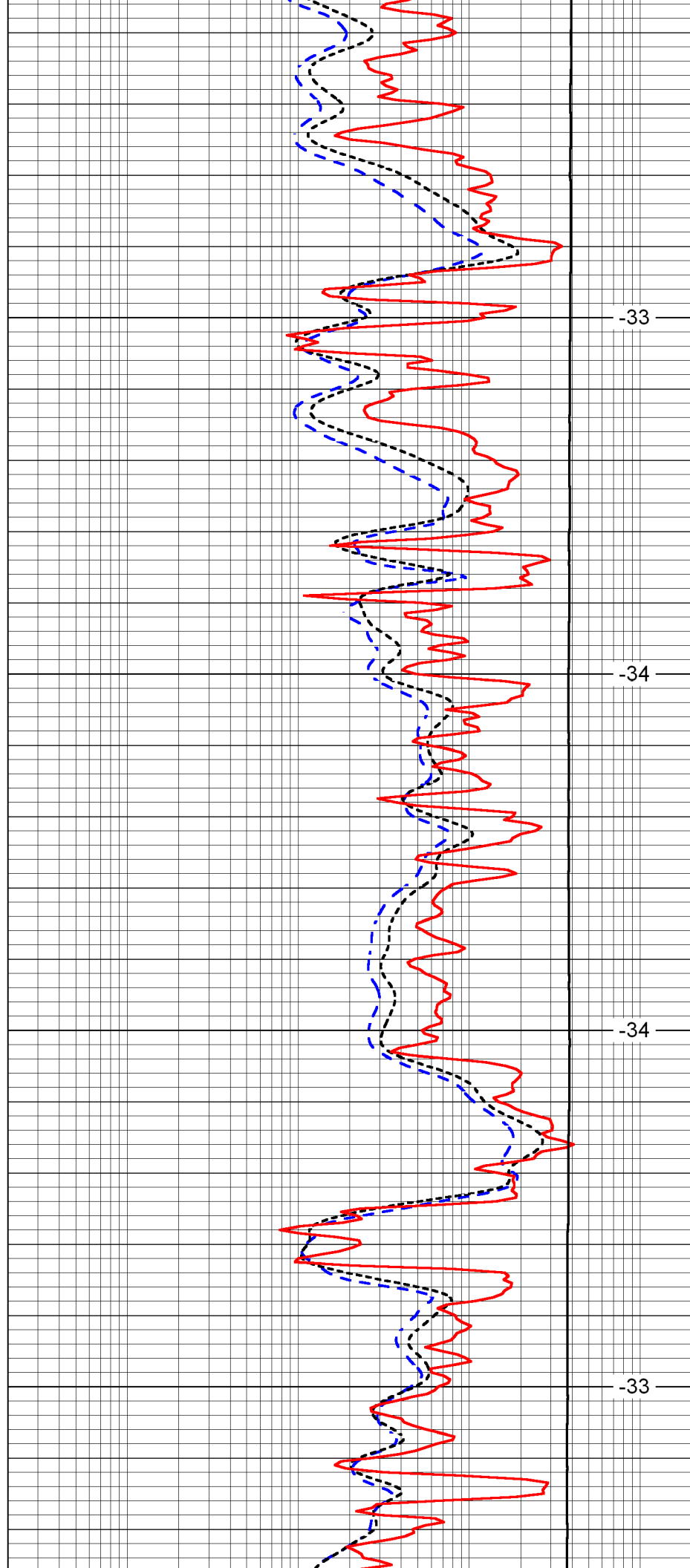


4100

4150

4200

4250

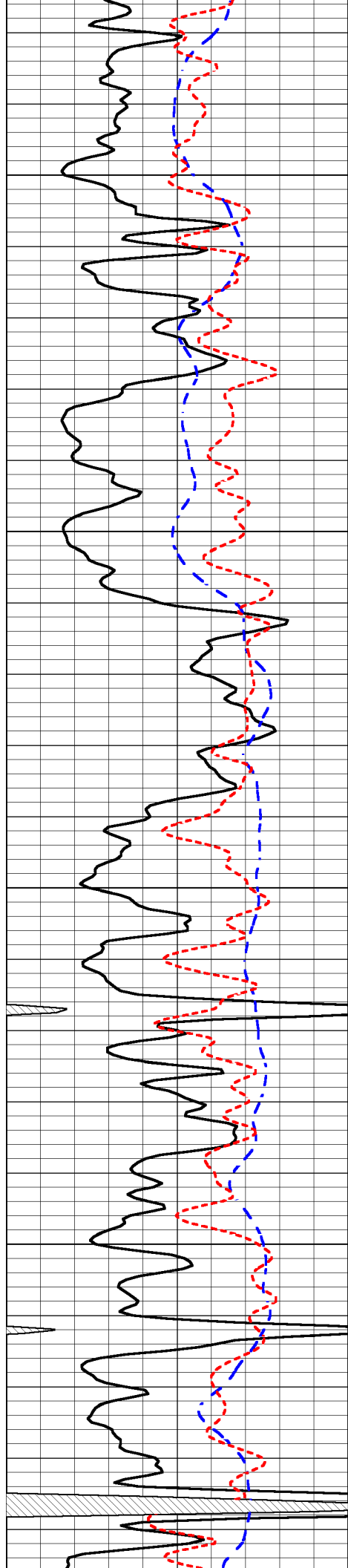


-33

-34

-34

-33

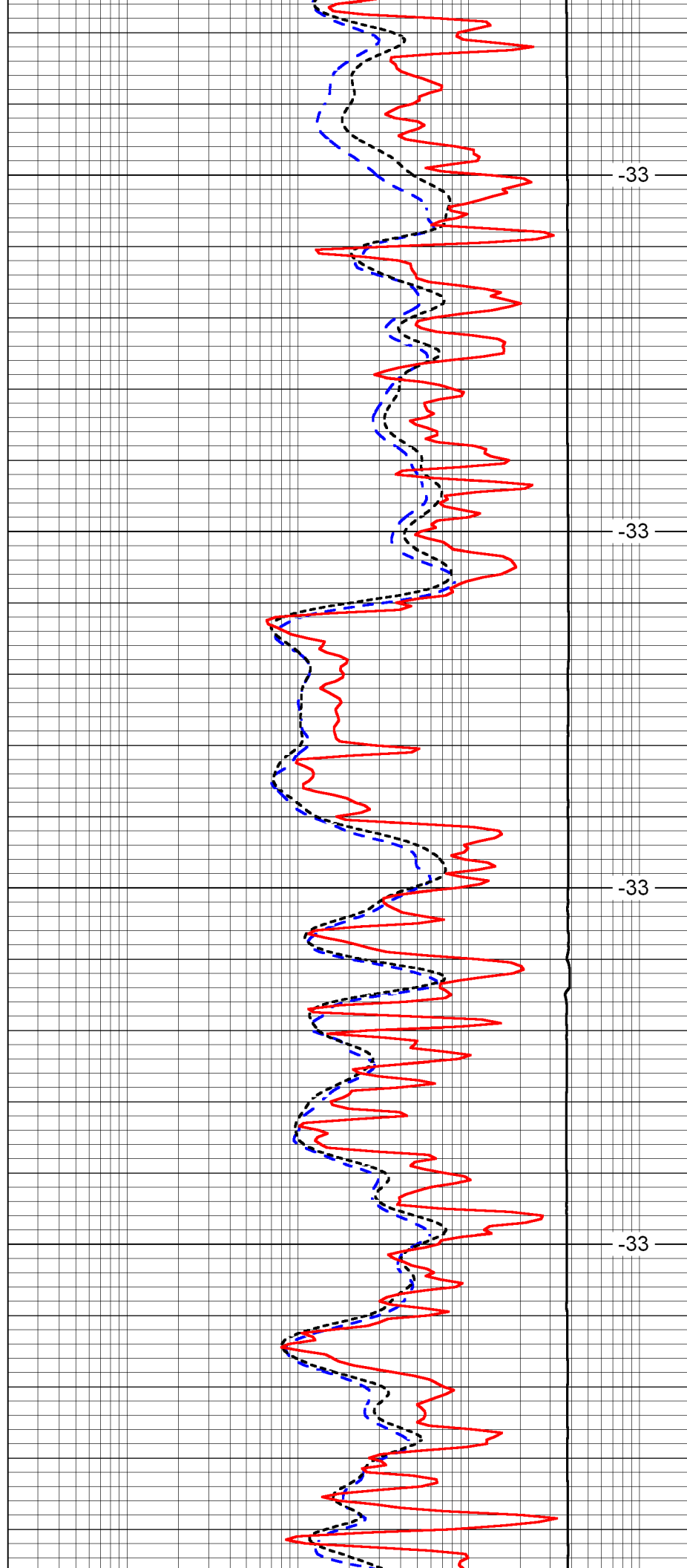


4300

4350

4400

4450

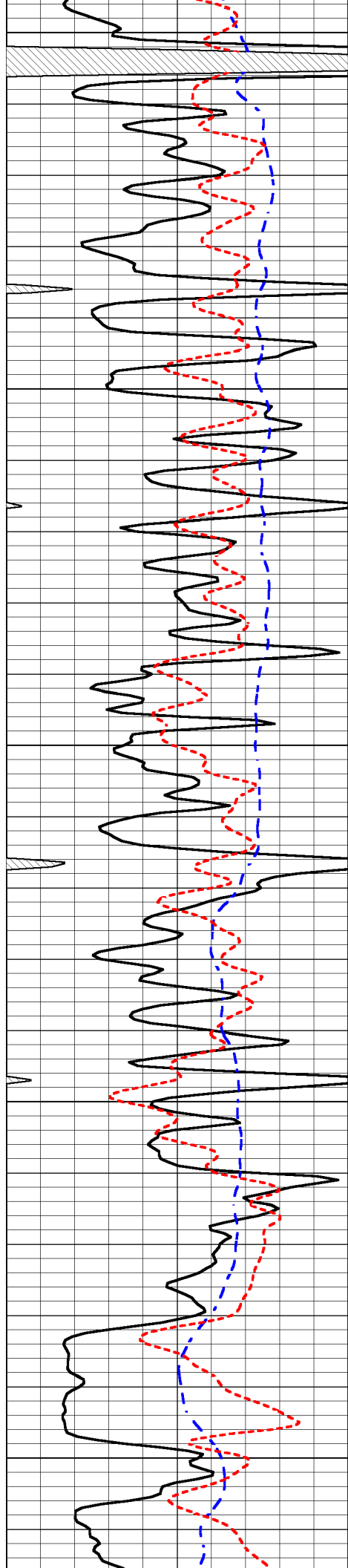


-33

-33

-33

-33



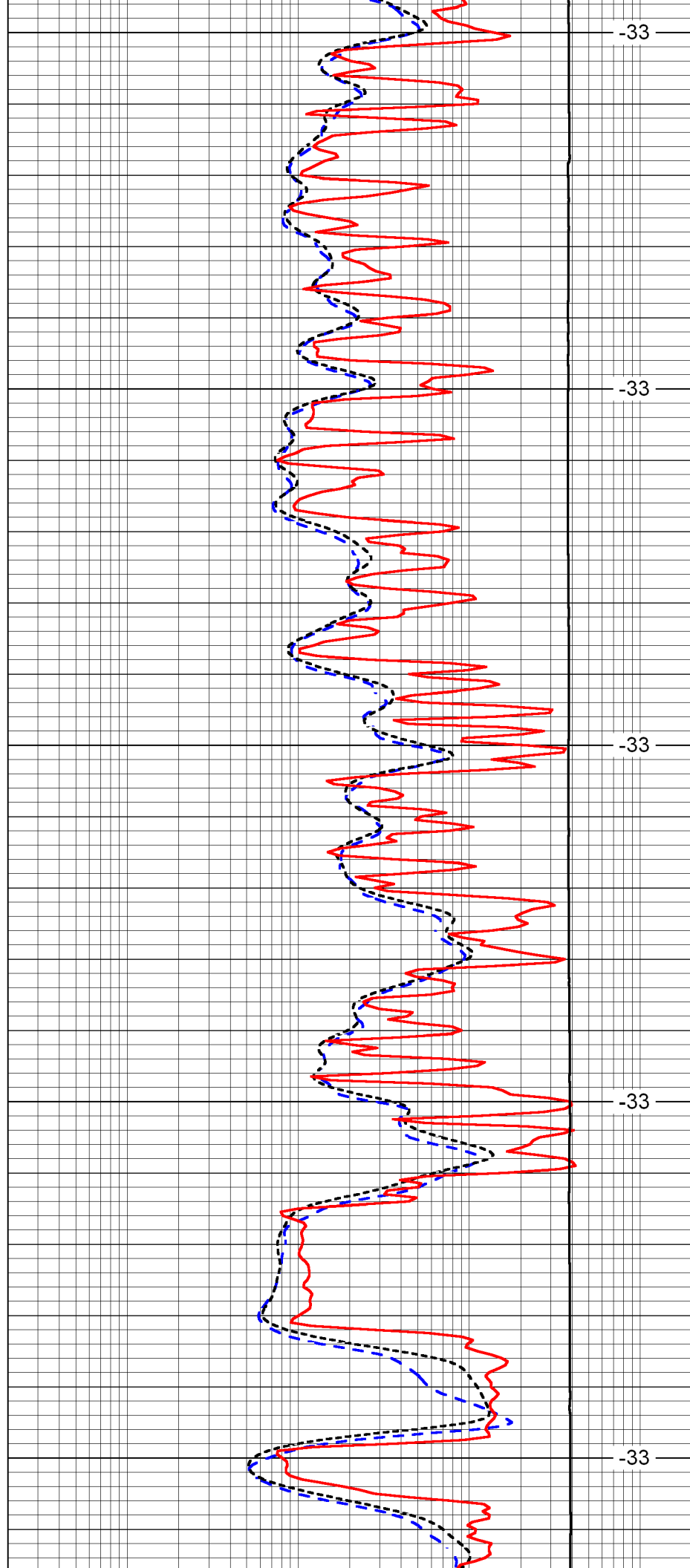
4500

4550

4600

4650

4700



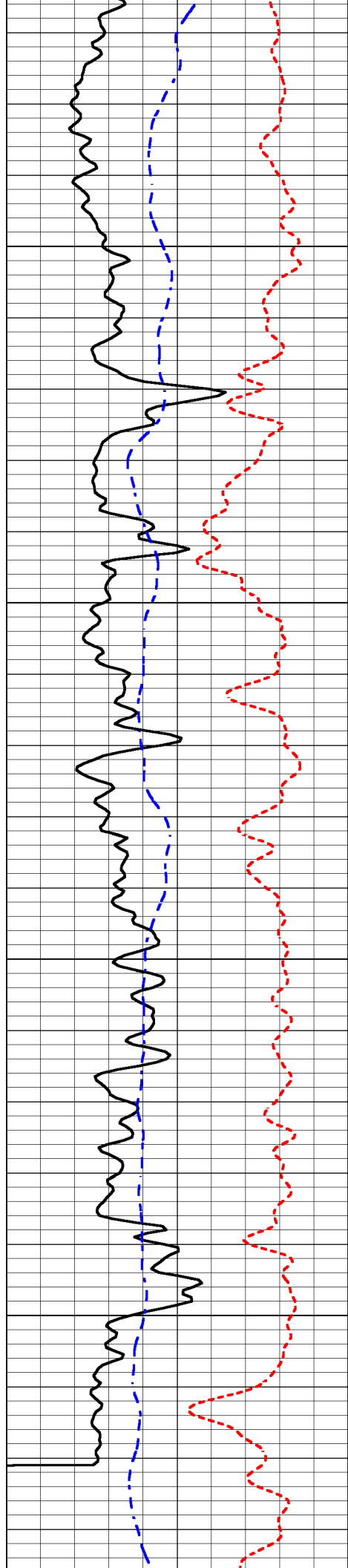
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-33

-33

-33

-33

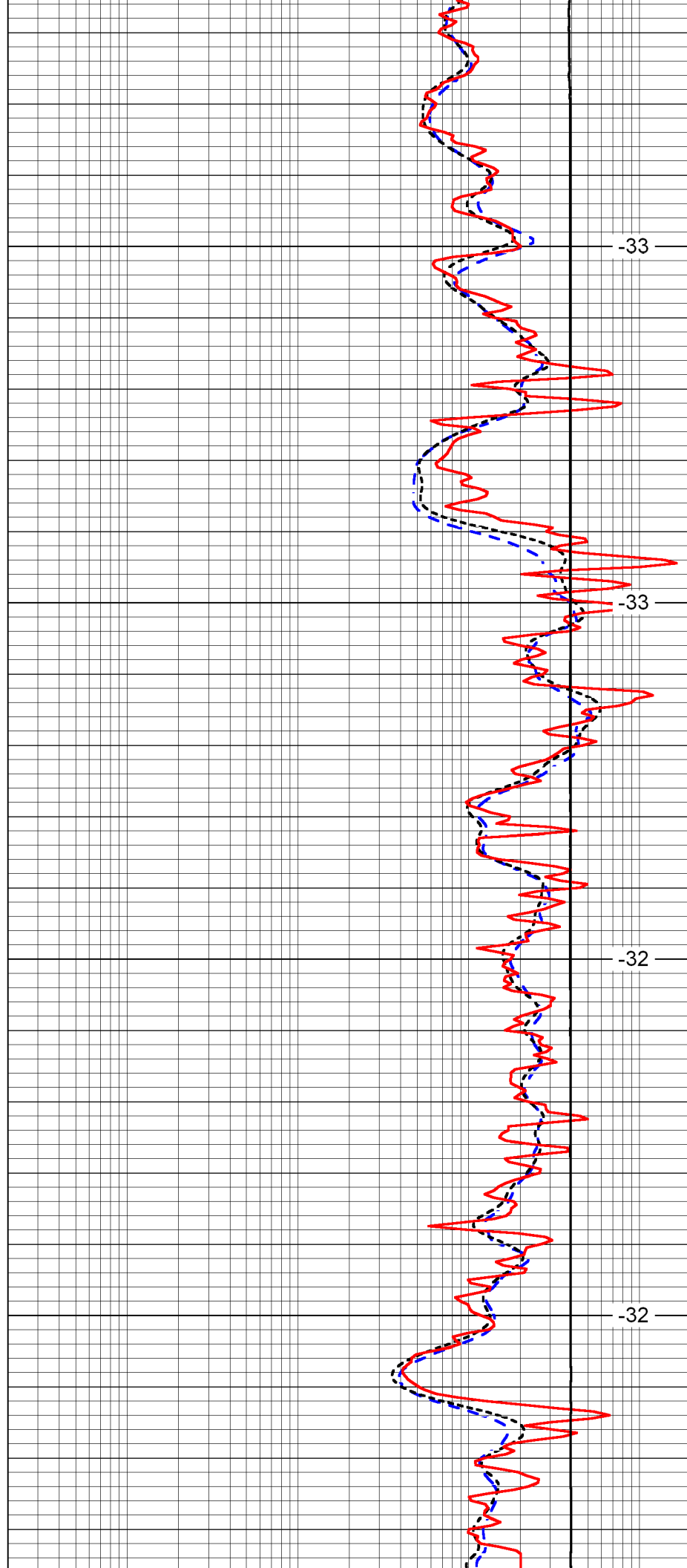


4750

4800

4850

4900

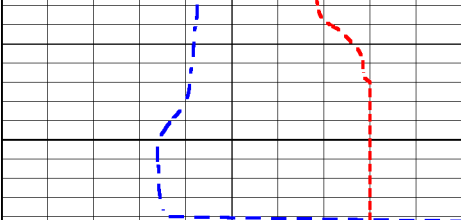


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-33

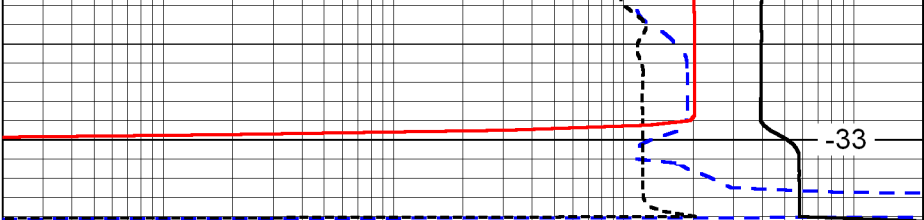
-32

-32



0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

4950



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD