



Dual Induction Log

Pioneer Energy Services

API No.	Company Larson Engineering, Inc.		
	Well Kalo Unit #1-29		
	Field Wildcat		
	County Lane	State	Kansas
	Location	NE NE NE NW 285' FNL & 2478' FWL	
	Sec: 29	Twp: 18S	Rge: 28W
	Permanent Datum	Ground Level	Elevation 2753
	Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum
	Drilling Measured From	From Kelly Bushing	K.B. 2760 D.F. 2753 G.L. 2753
Date	6/26/2014		
Run Number	One		
Depth Driller	4645		
Depth Logger	4638		
Bottom Logged Interval	4637		
Top Log Interval	250		
Casing Driller	8.625 @ 264		
Casing Logger	260		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2000		
Density / Viscosity	9.1 63		
pH / Fluid Loss	10.0 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.81 @ 83		
Rmf @ Meas. Temp	0.61 @ 83		
Rmc @ Meas. Temp	1.09 @ 83		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.55 @ 122		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	122		
Equipment Number	15		
Location	Hays		
Recorded By	D. Kerr		
Witnessed By	Vern Schrag		

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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.pioneerres.com
785 625 3858

Dighton KS, 2 East to Mustang Rd,
1 South, West Into

Database File: c:\warrior\data\larson_kalo unit #1-29\larson_kalounit_1_29hd.db
Dataset Pathname: DIL\larstk
Presentation Format: dil2in
Dataset Creation: Thu Jun 26 03:16:06 2014
Charted by: Depth in Feet scaled 1:600

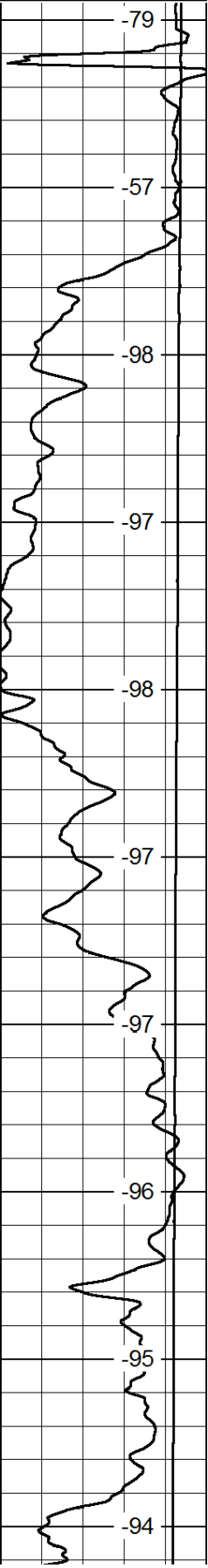
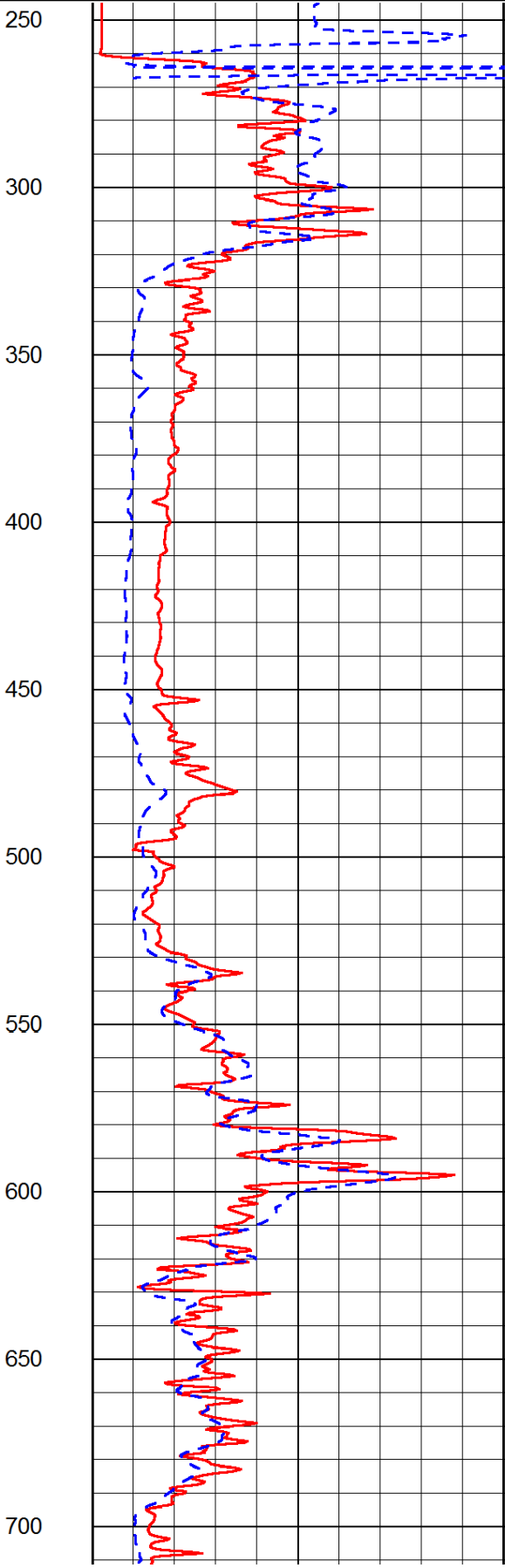
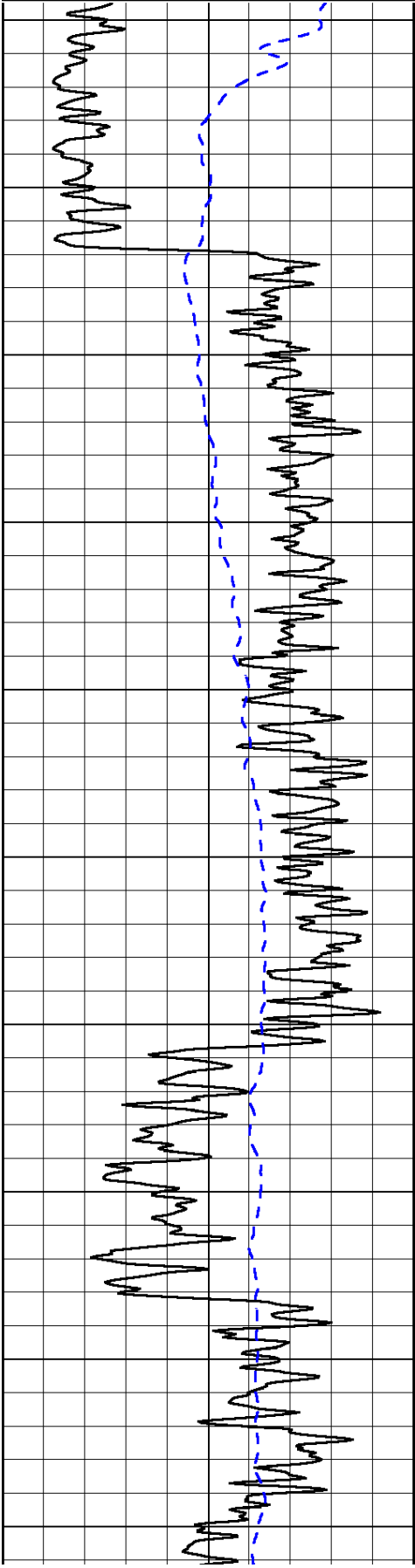
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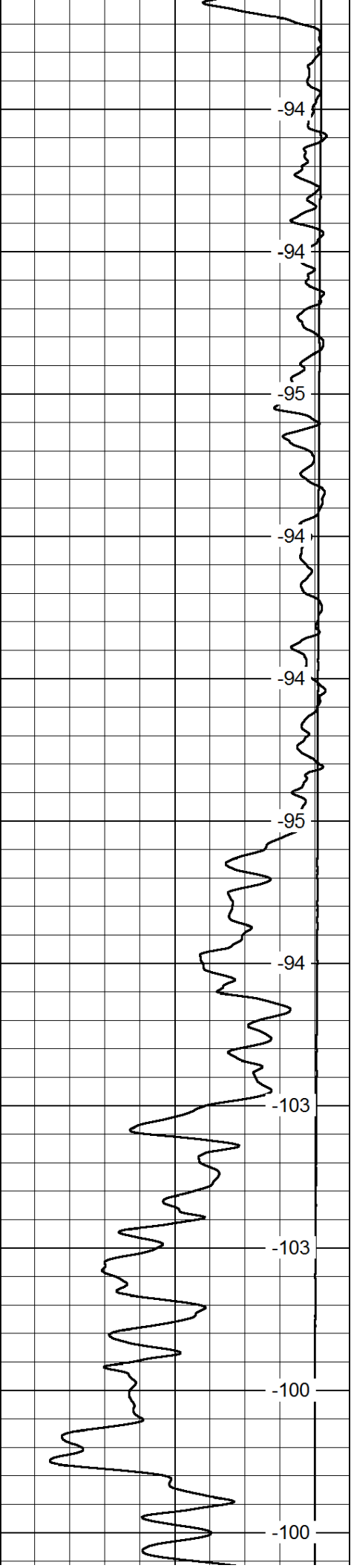
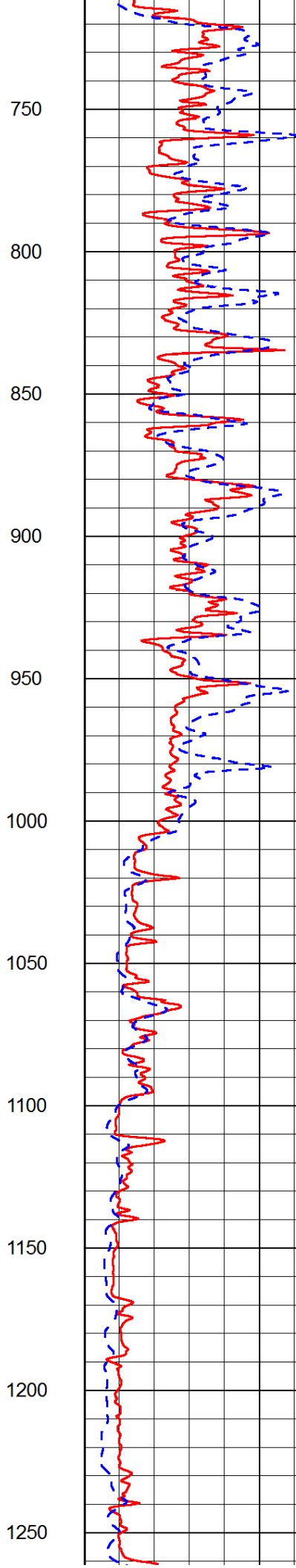
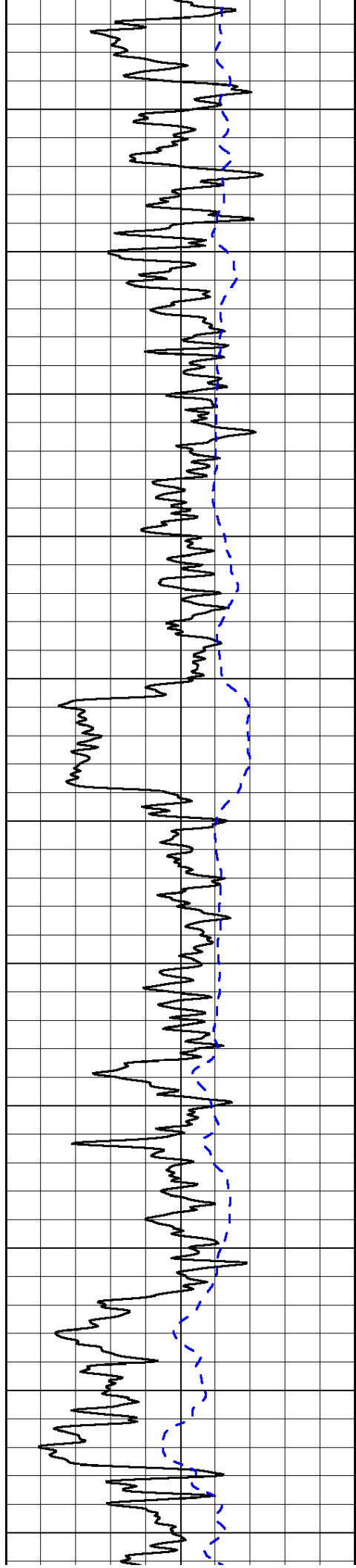
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-200	SP (mV)	0

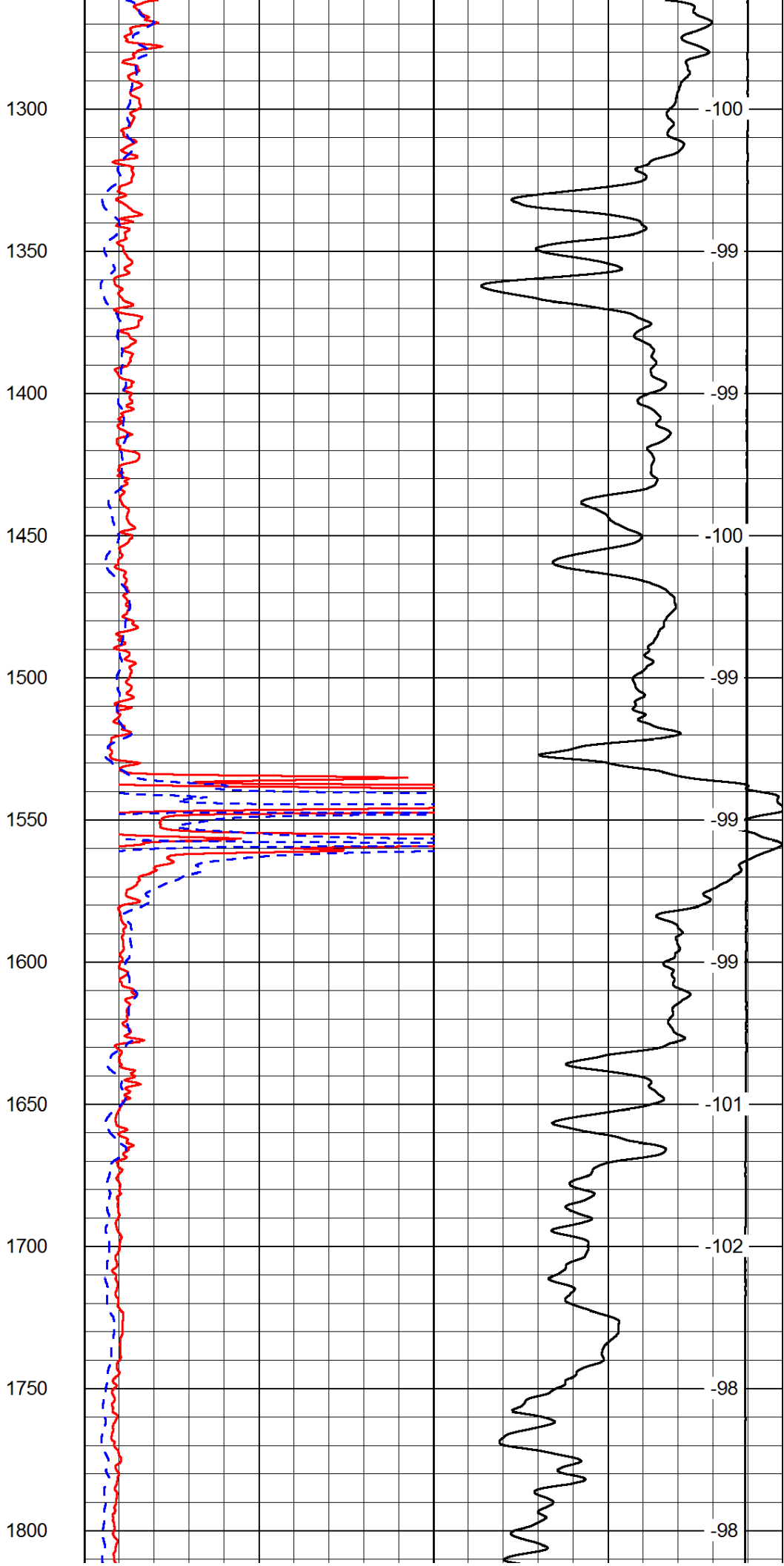
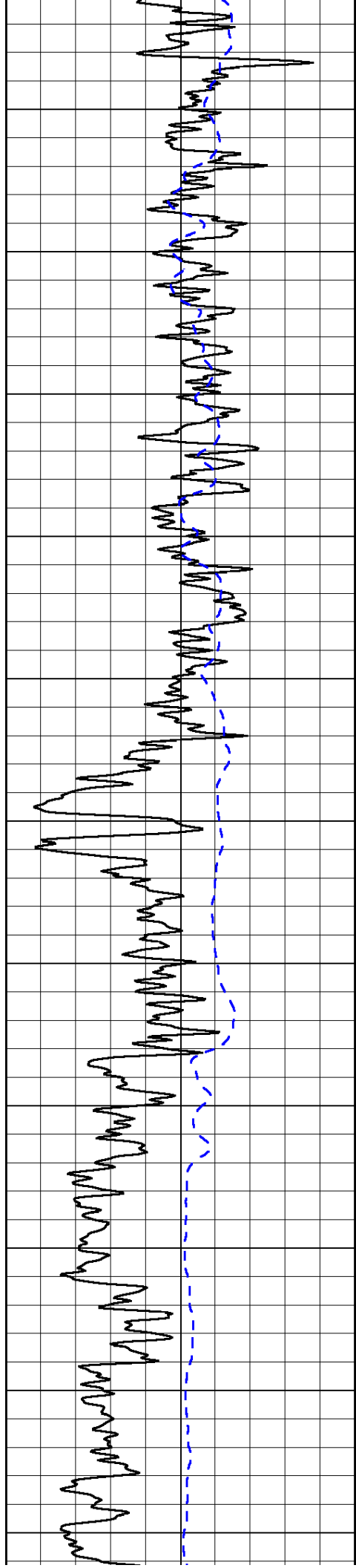
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

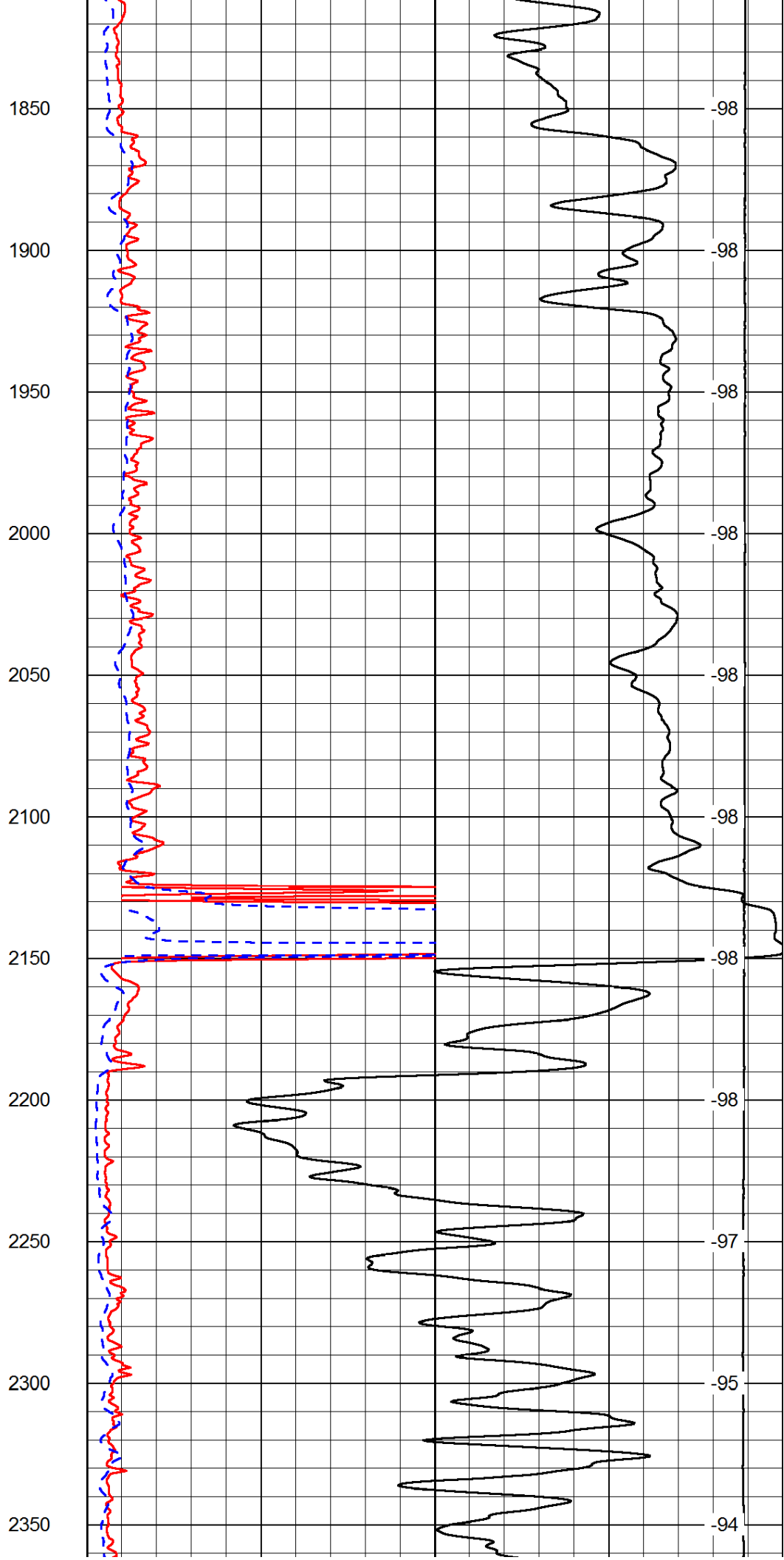
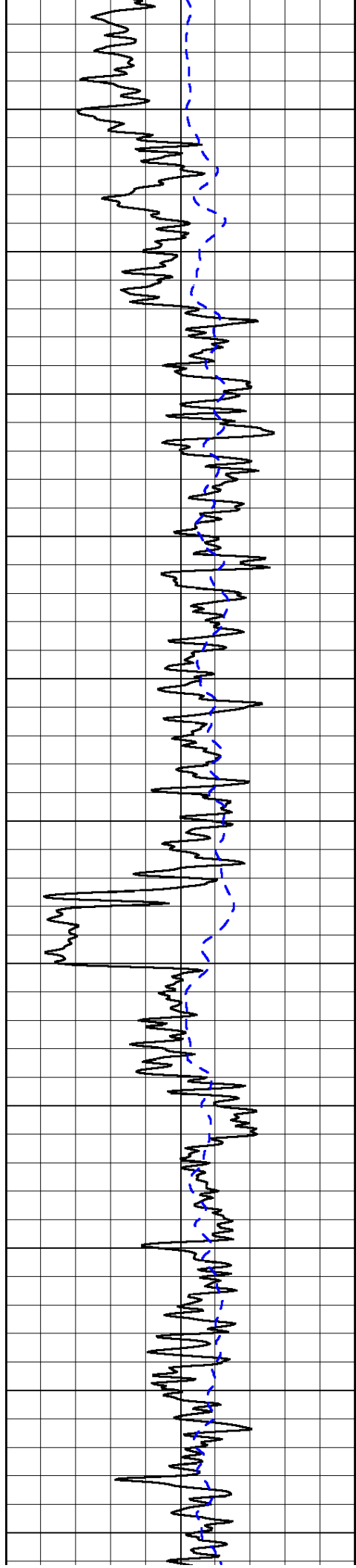
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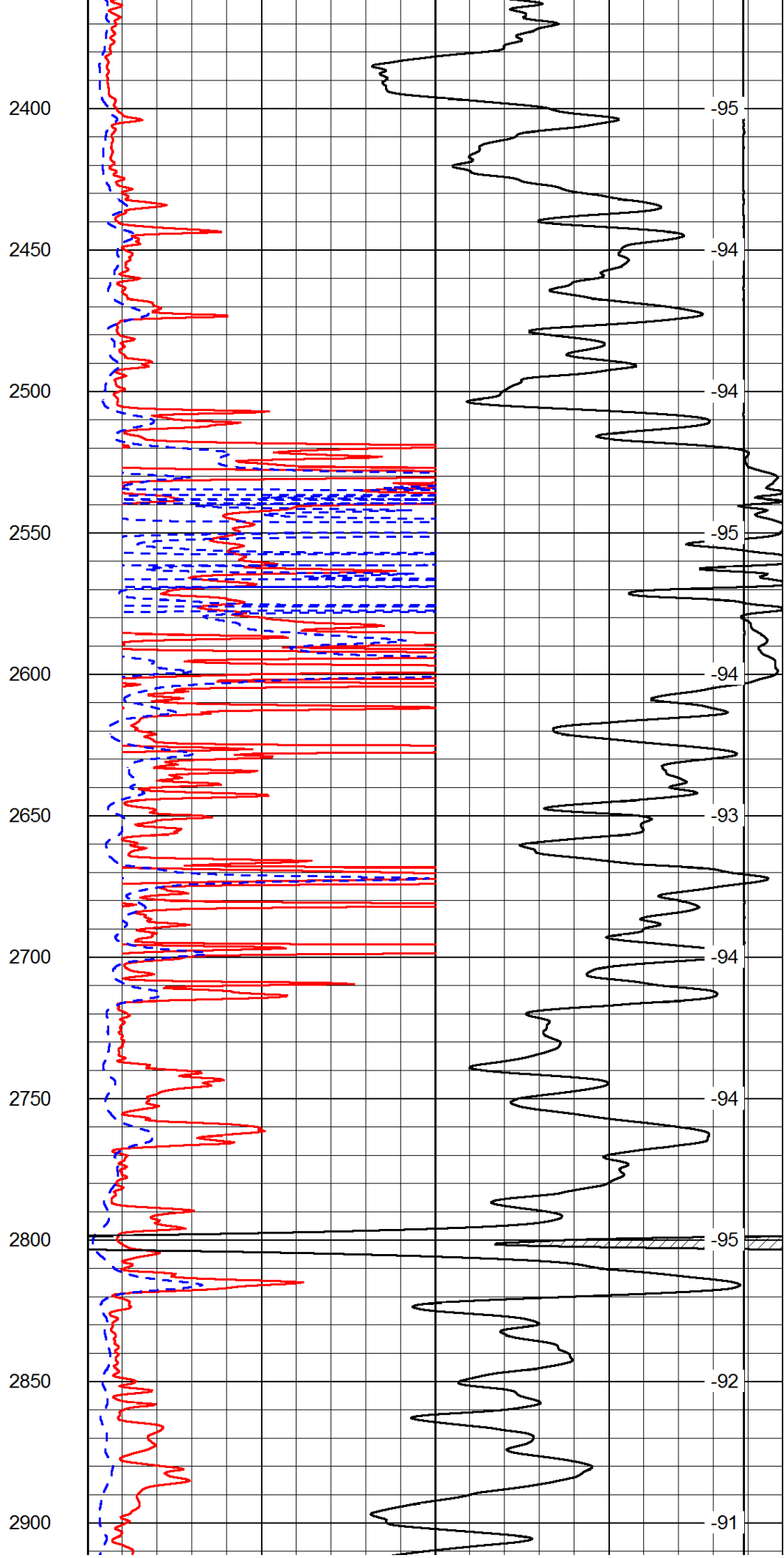
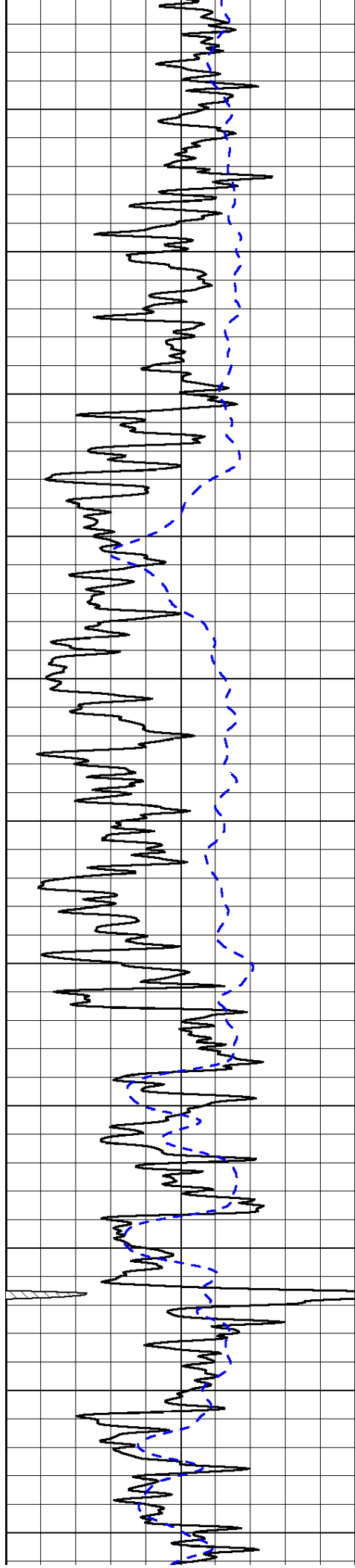
LSPD
0
0

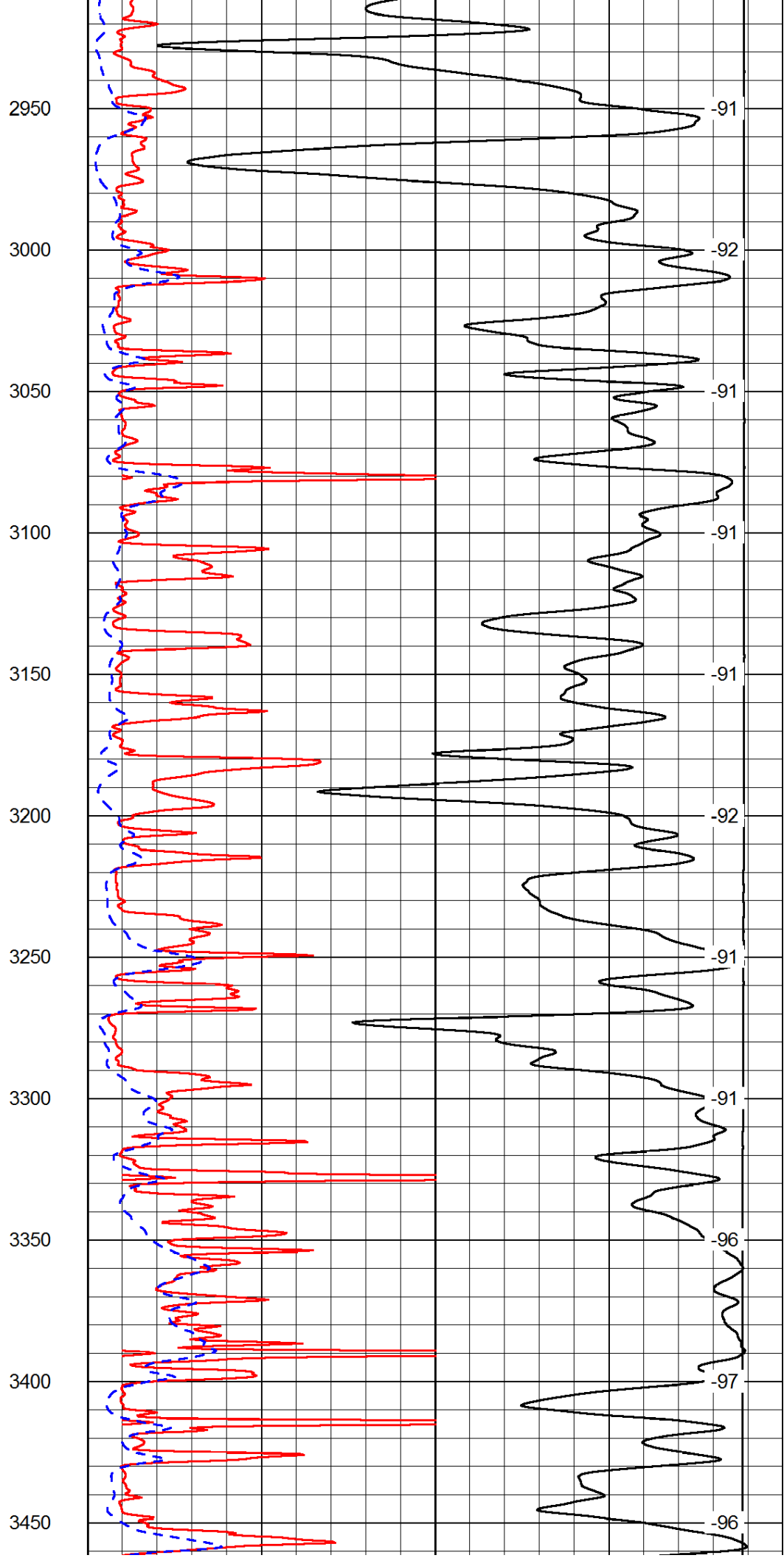
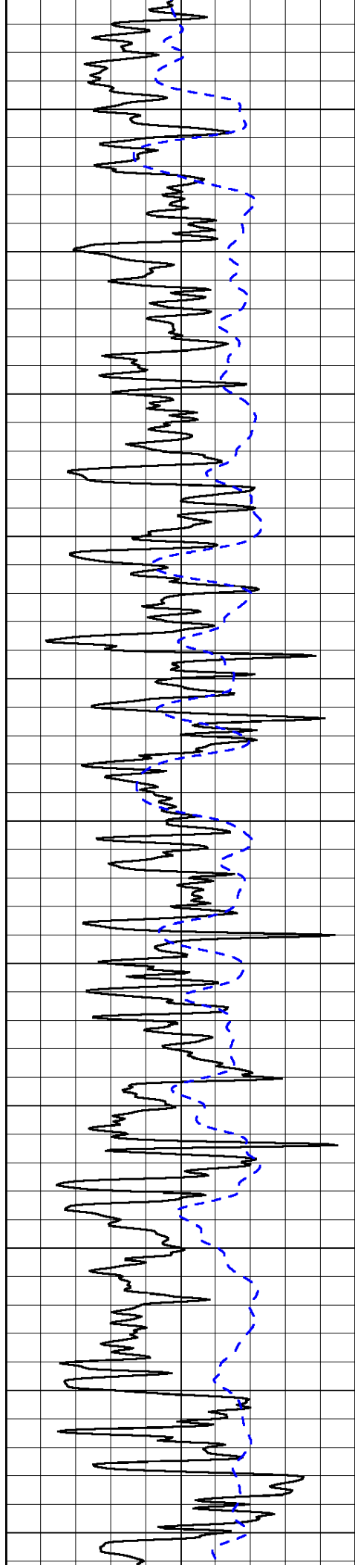


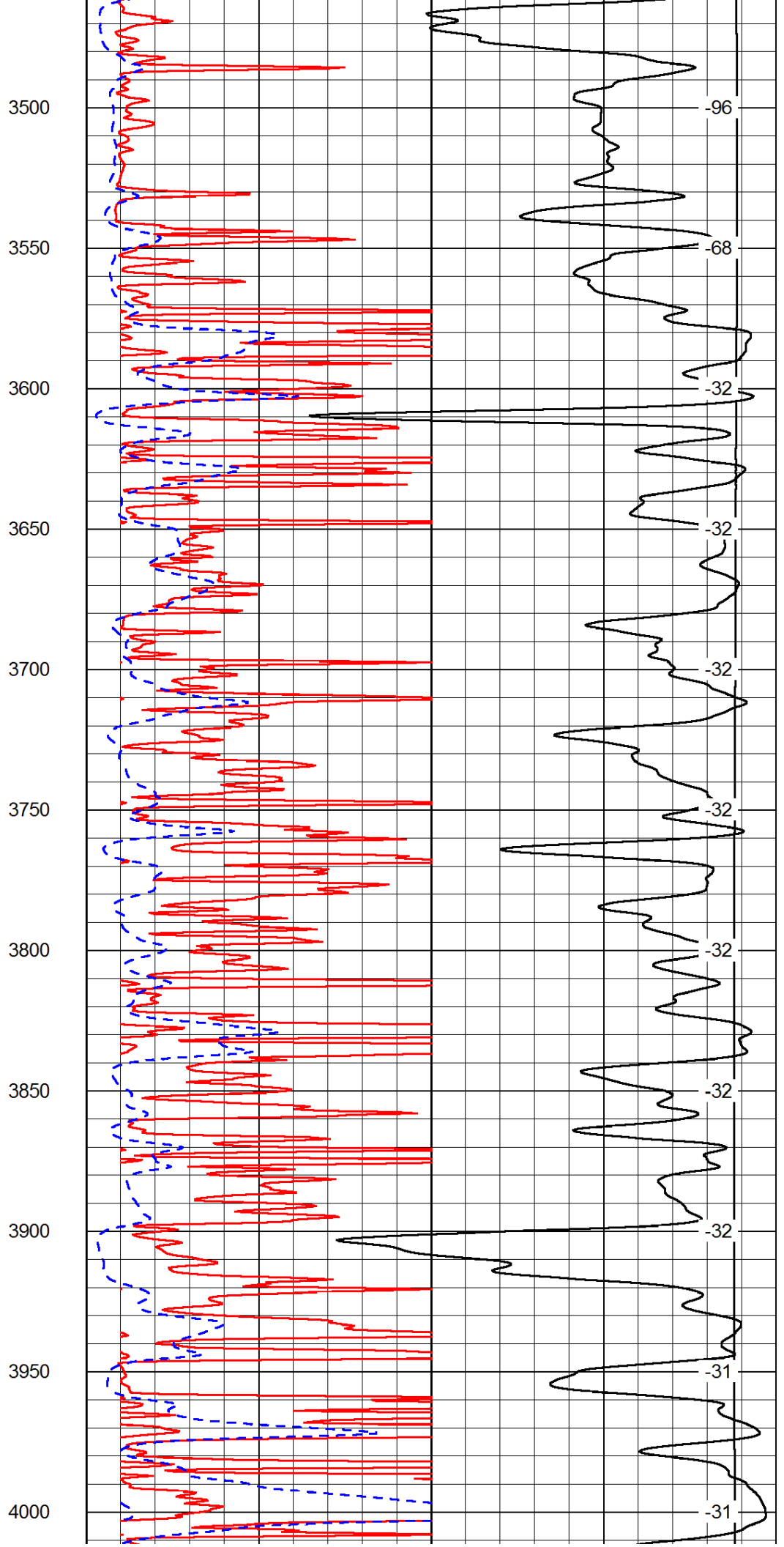
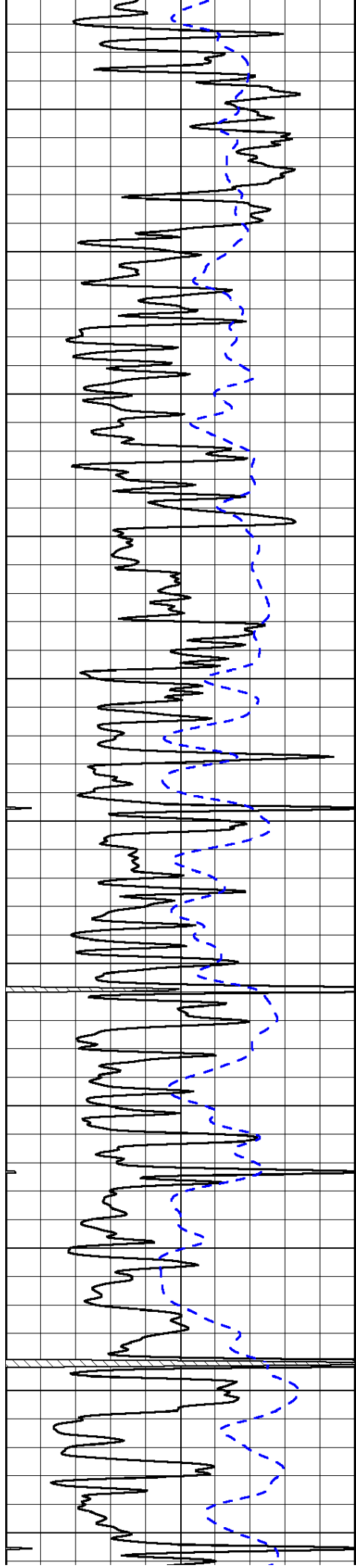


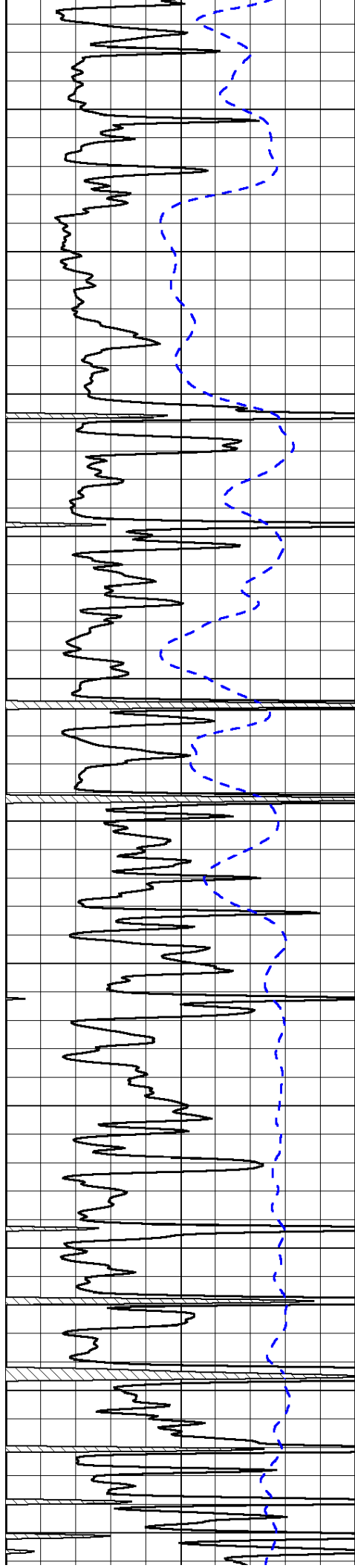












4050

4100

4150

4200

4250

4300

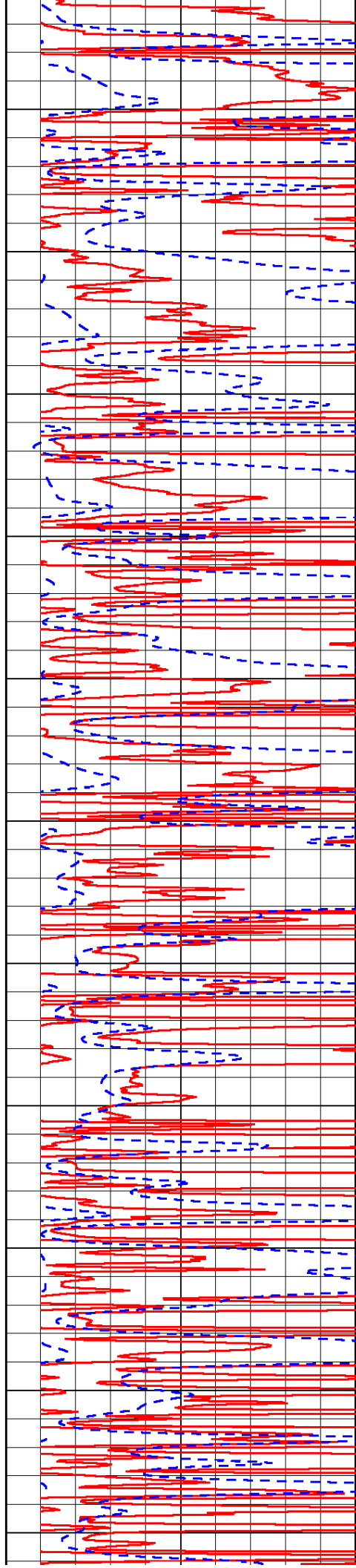
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4400

4450

4500

4550



-30

-30

-30

-31

-30

-30

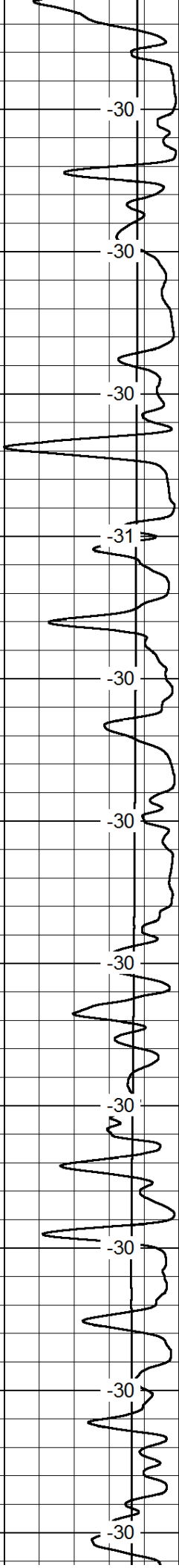
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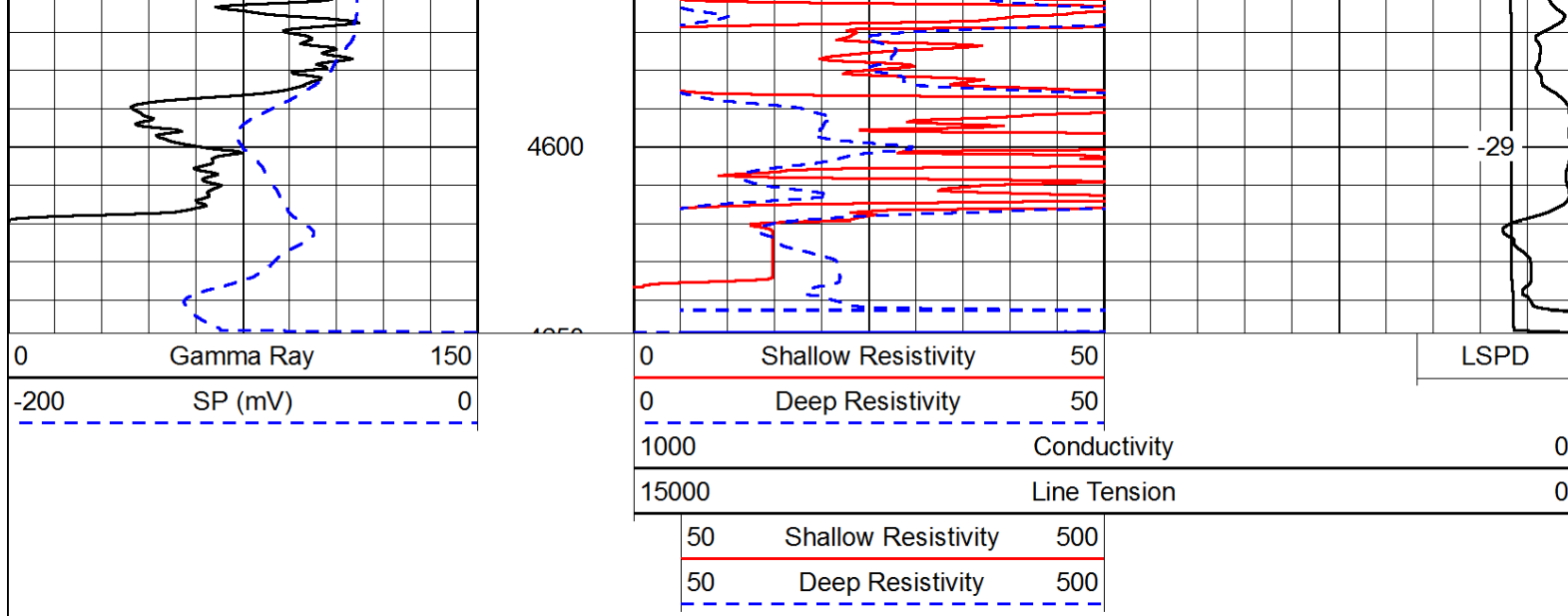
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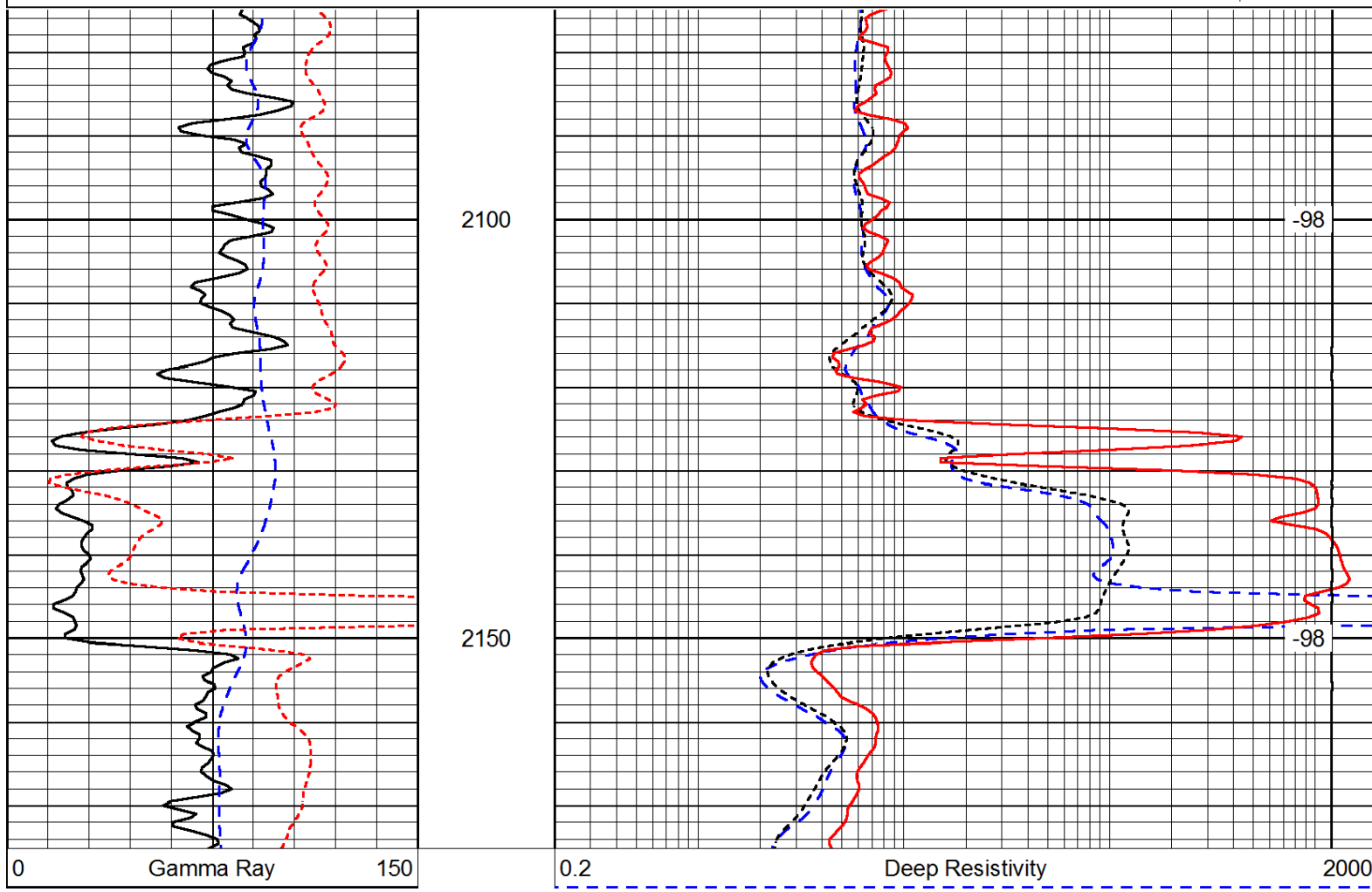
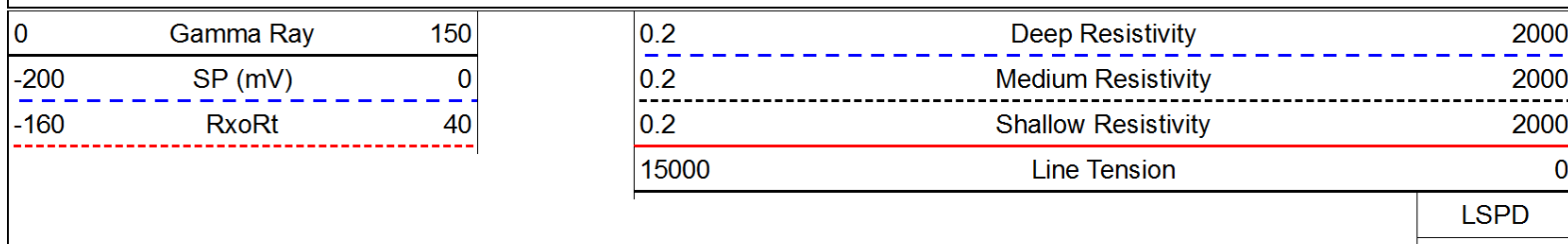
-30

-30





Database File: c:\warrior\data\larson_kalo unit #1-29\larson_kalounit_1_29hd.db
 Dataset Pathname: DIL\larstk
 Presentation Format: dil
 Dataset Creation: Thu Jun 26 03:16:06 2014
 Charted by: Depth in Feet scaled 1:240



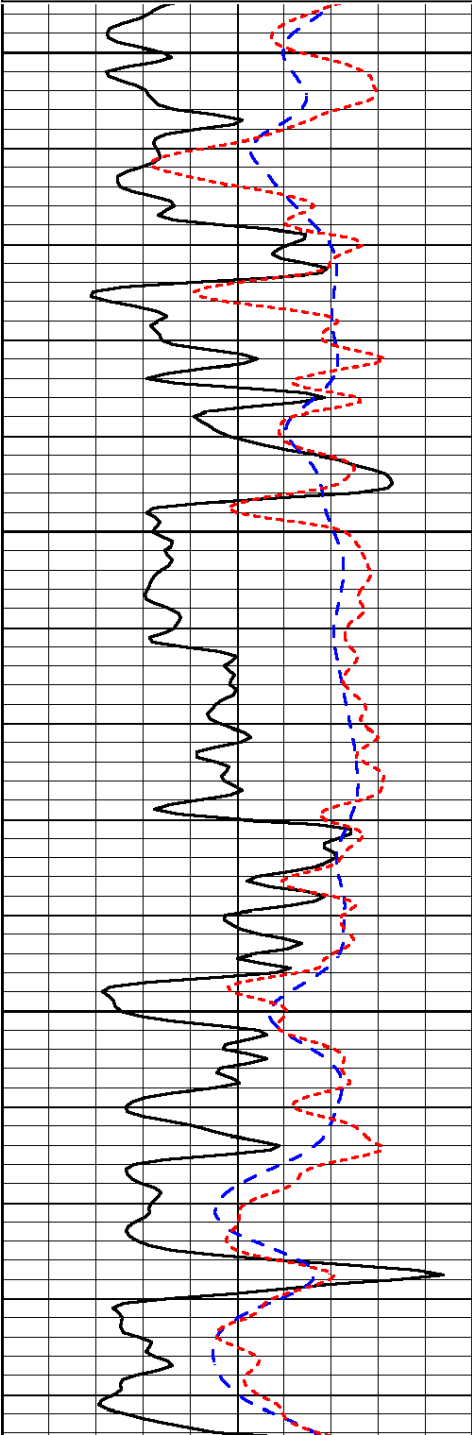
-200	SP (mV)	0
-160	RxoRt	40

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

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0	Gamma Ray	150
-200	SP (mV)	0
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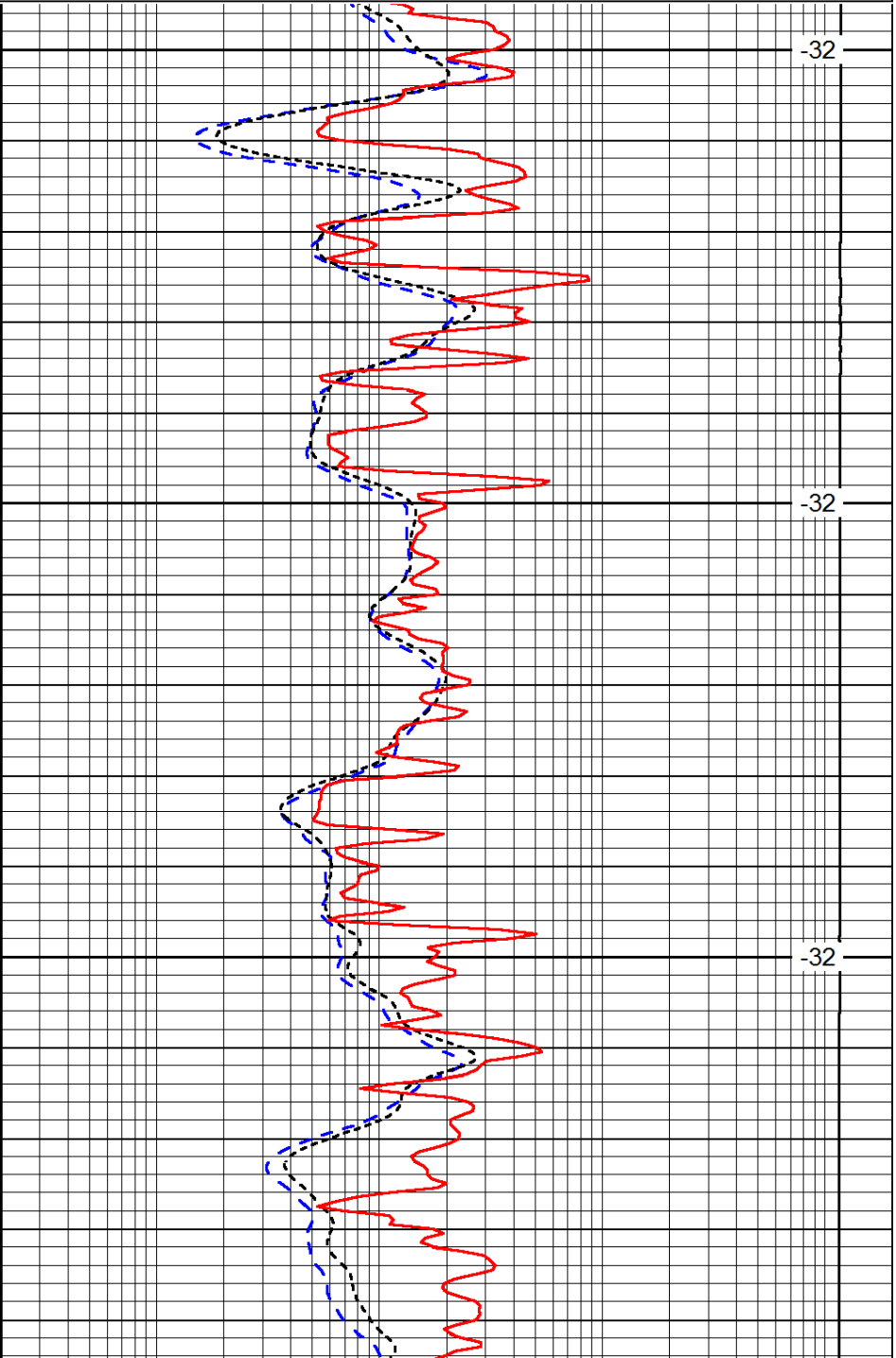
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0
		LSPD



3600

3650

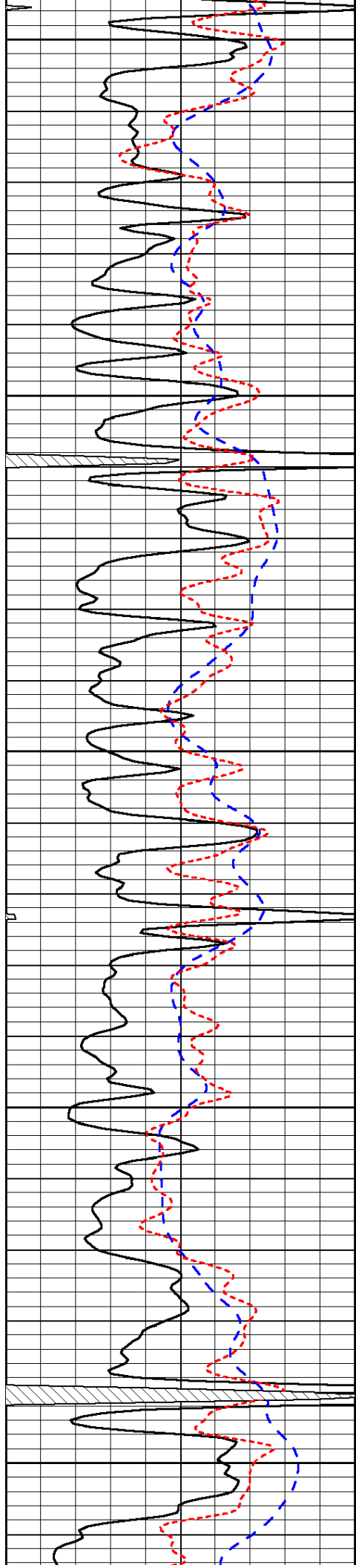
3700



-32

-32

-32



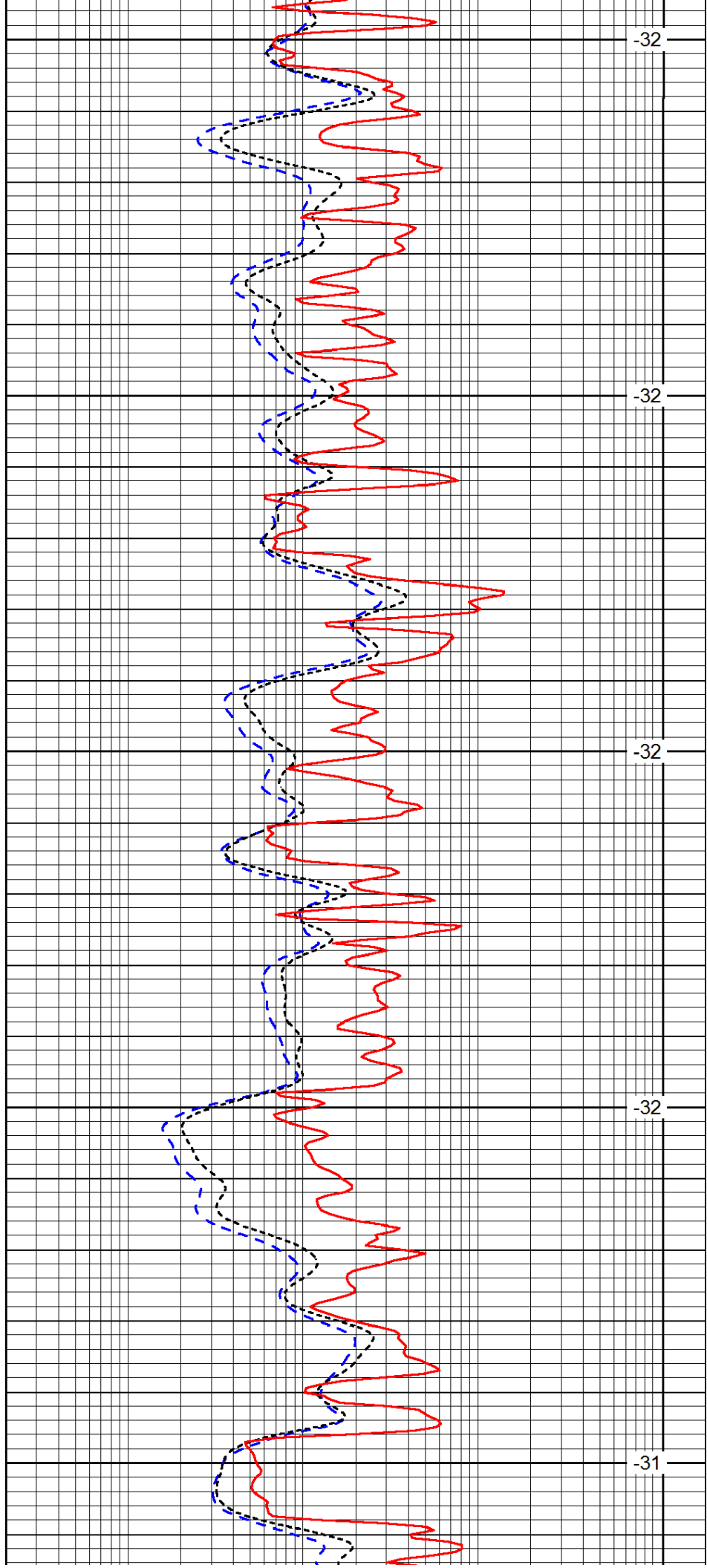
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3800

3850

3900

3950



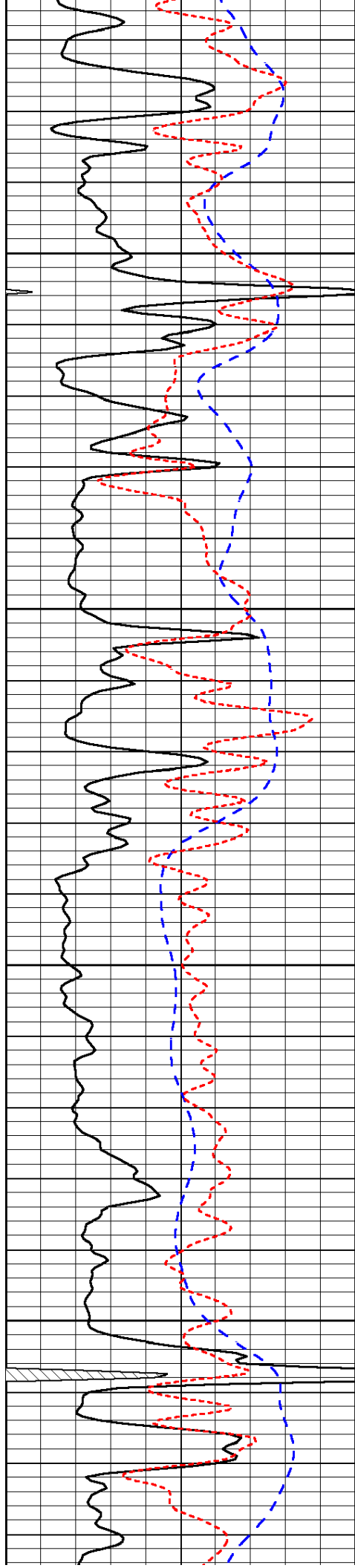
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-32

-32

-32

-31

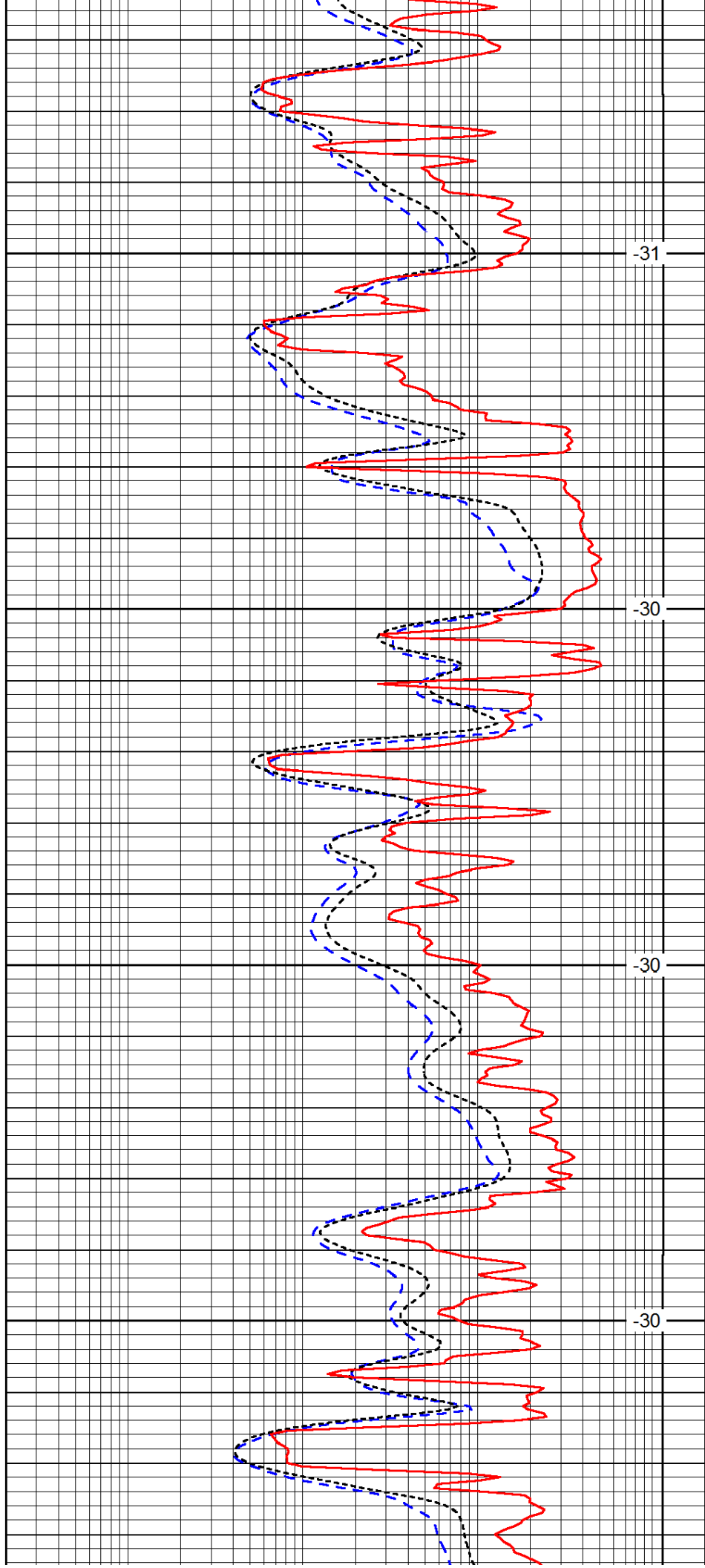


4000

4050

4100

4150

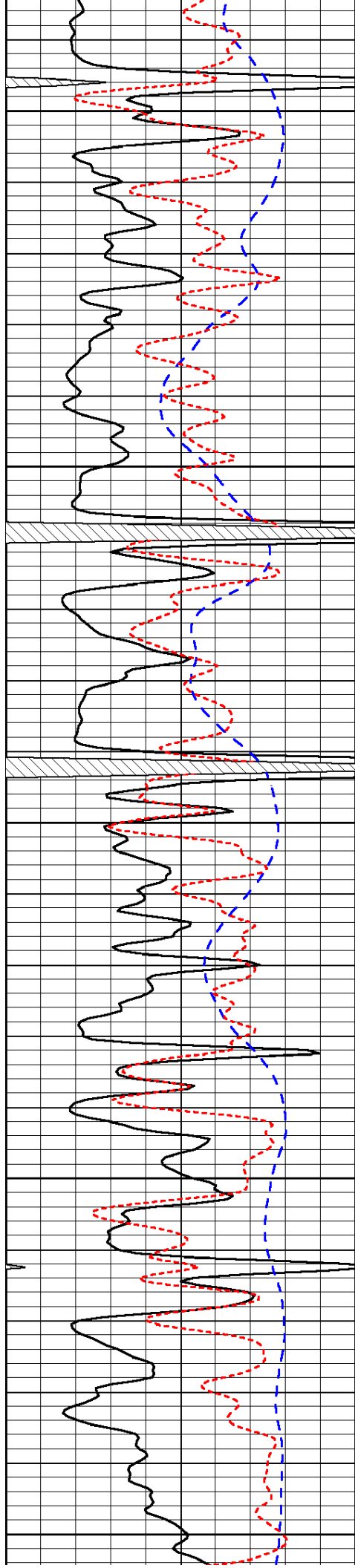


-31

-30

-30

-30



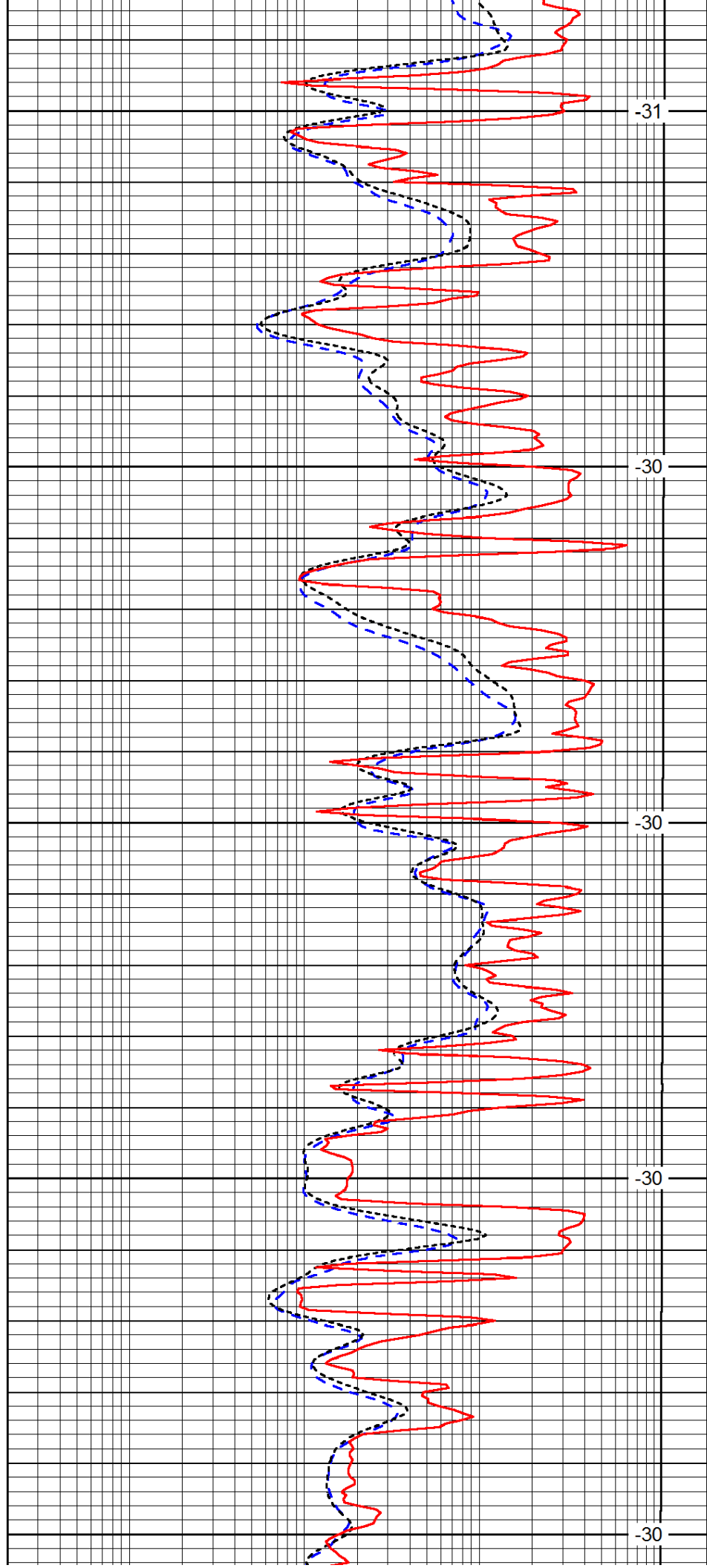
4200

4250

4300

4350

4400



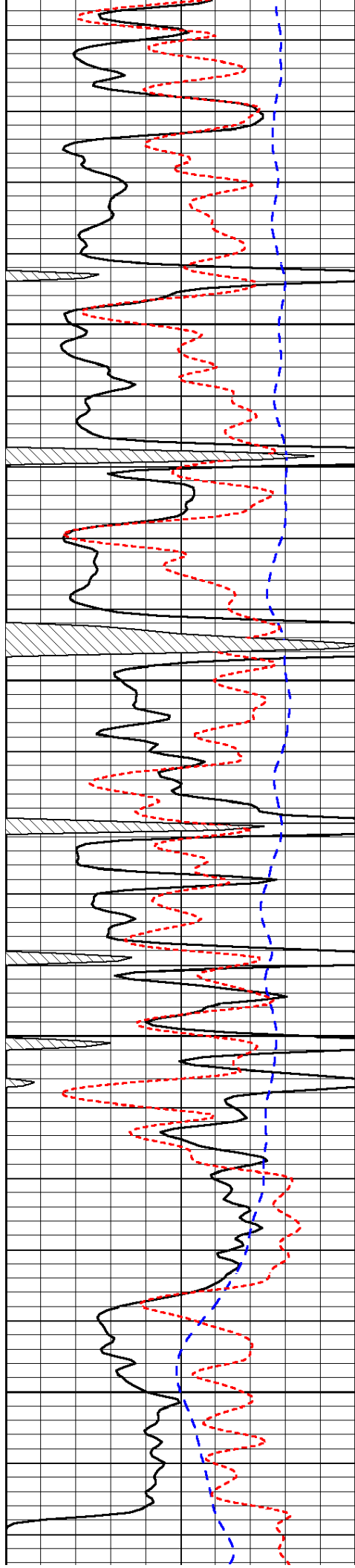
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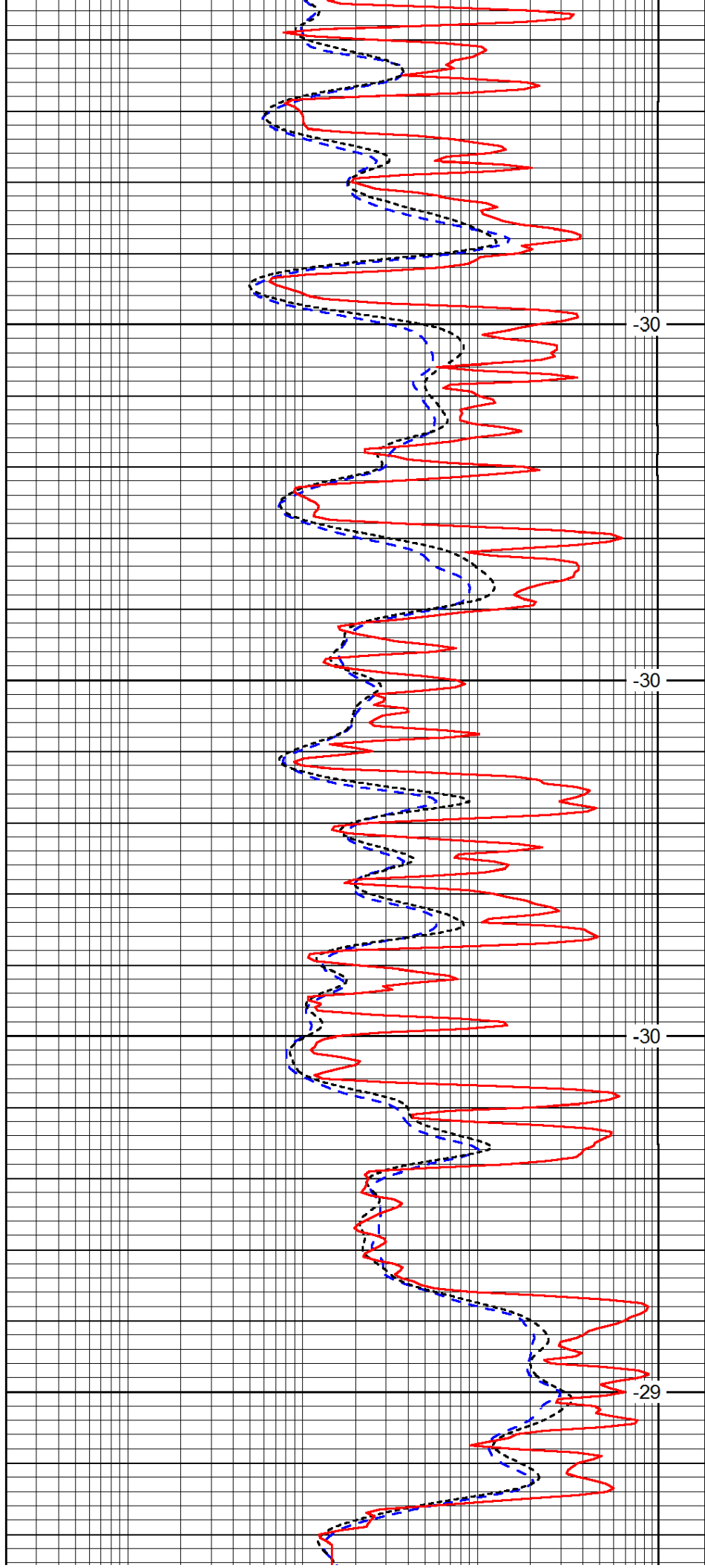


4450

4500

4550

4600

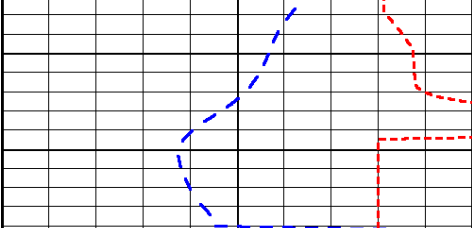


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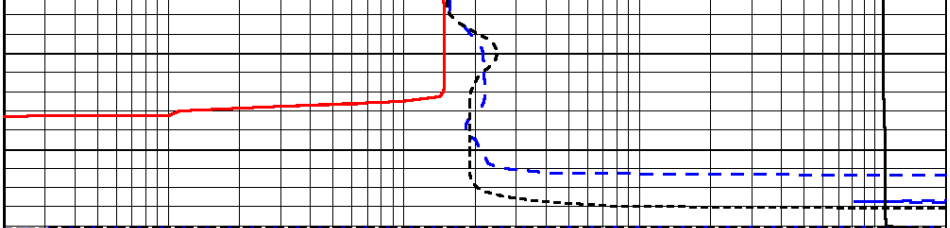
-30

-30

-29



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0.2	Deep Resistivity	2000
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LSPD