



Dual Induction Log

Pioneer Energy Services

API No.

15-147-20,688-00-00

Company **Bach Oil Production**

Well **Jessup Unit No.2**

Field **Woodruff**

County **Phillips** State

Kansas

Location **200' FNL & 1605' FEL**

Sec: **14** Twp: **1S** Rge: **14W**

Other Services
CNL/CDL
MEL

Elevation

K.B. 2024
D.F.
G.L. 2019

Permanent Datum **Ground Level** Elevation **2019**
Log Measured From **Kelly Bushing** **5** Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Date **9/9/2012**

Run Number **One**

Depth Driller **3510**

Depth Logger **3510**

Bottom Logged Interval **3509**

Top Log Interval **200**

Casing Driller **8.625 @ 232**

Casing Logger **228**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **1,000**

Density / Viscosity **9.3 45**

pH / Fluid Loss **10.0 9.6**

Source of Sample **Flowline**

Rm @ Meas. Temp **1.8 @ 68**

Rmf @ Meas. Temp **1.35 @ 68**

Rmc @ Meas. Temp **2.43 @ 68**

Source of Rmf / Rmc **Charts**

Rm @ BHT **1.1 @ 111**

Operating Rig Time **3 1/2 Hours**

Max Rec. Temp. F **111**

Equipment Number **17**

Location **Hays**

Recorded By **C. Desaire**

Witnessed By **Bob Petersen**

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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.

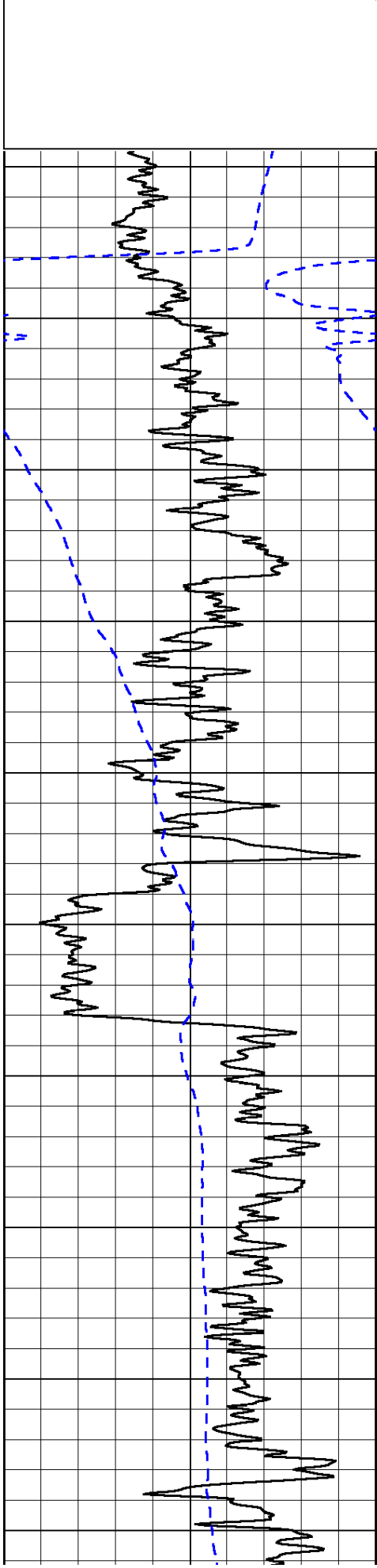
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Phillipsburg KS,
N to 183/383 Junction,
3 W to 500 Rd, 1 1/2 S, 1/4 W, N Into

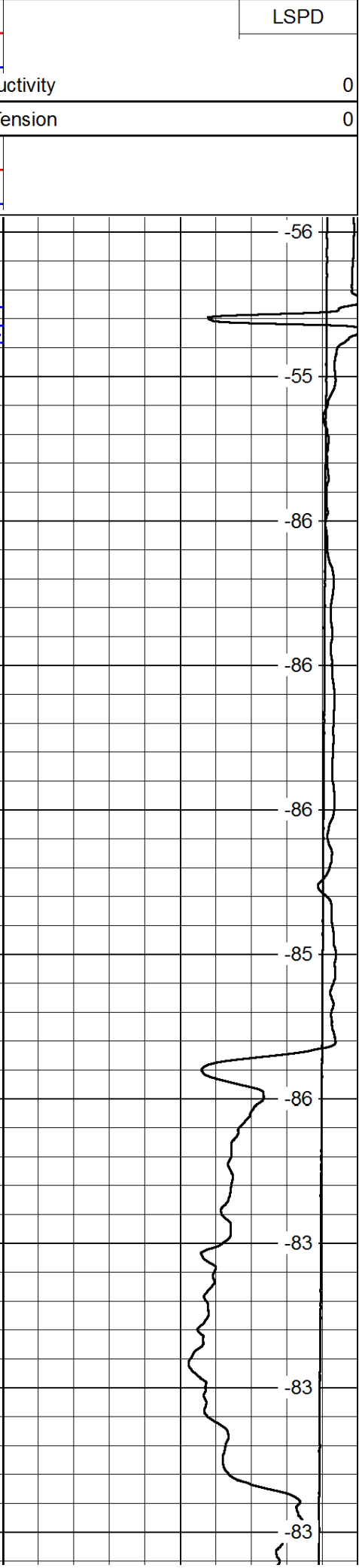
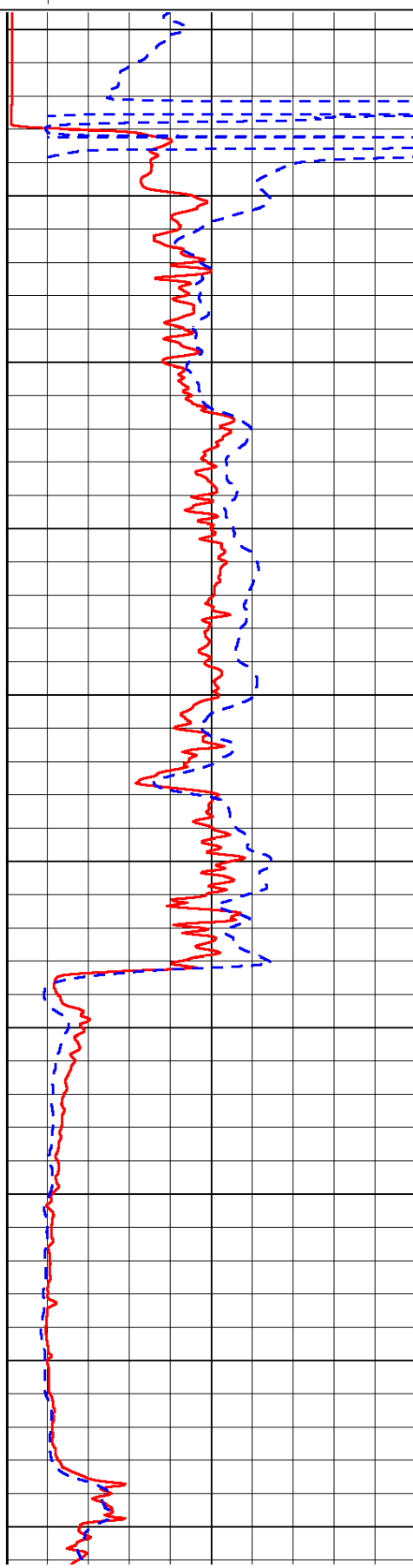
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Dataset Pathname: dil/bachstk
Presentation Format: dil2in
Dataset Creation: Sun Sep 09 03:23:01 2012
Charted by: Depth in Feet scaled 1:600

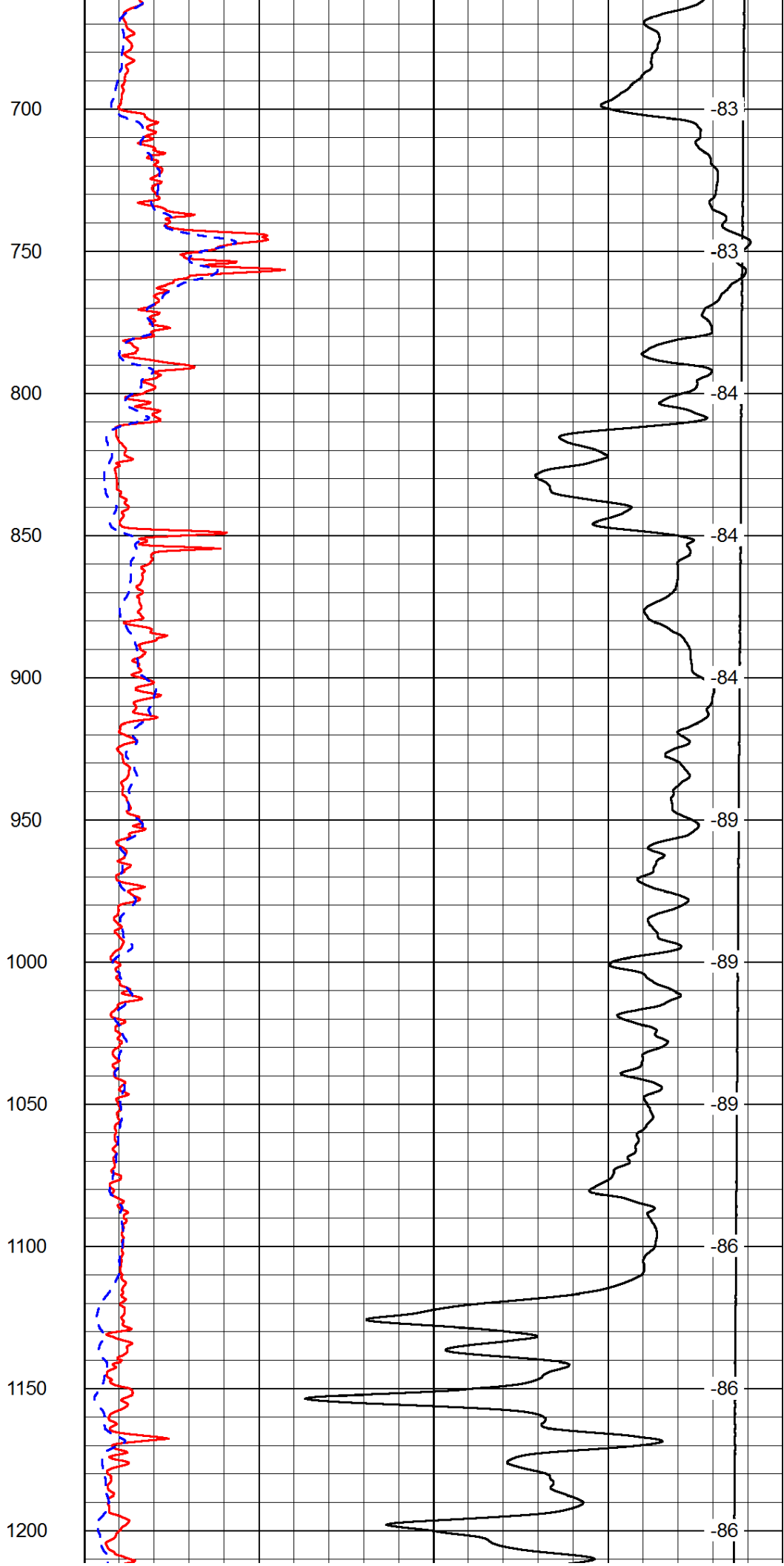
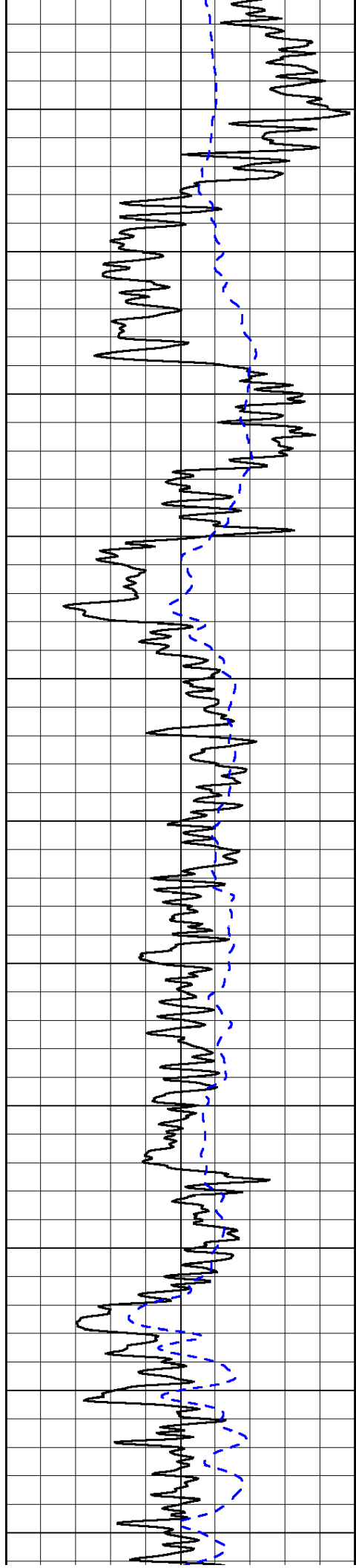
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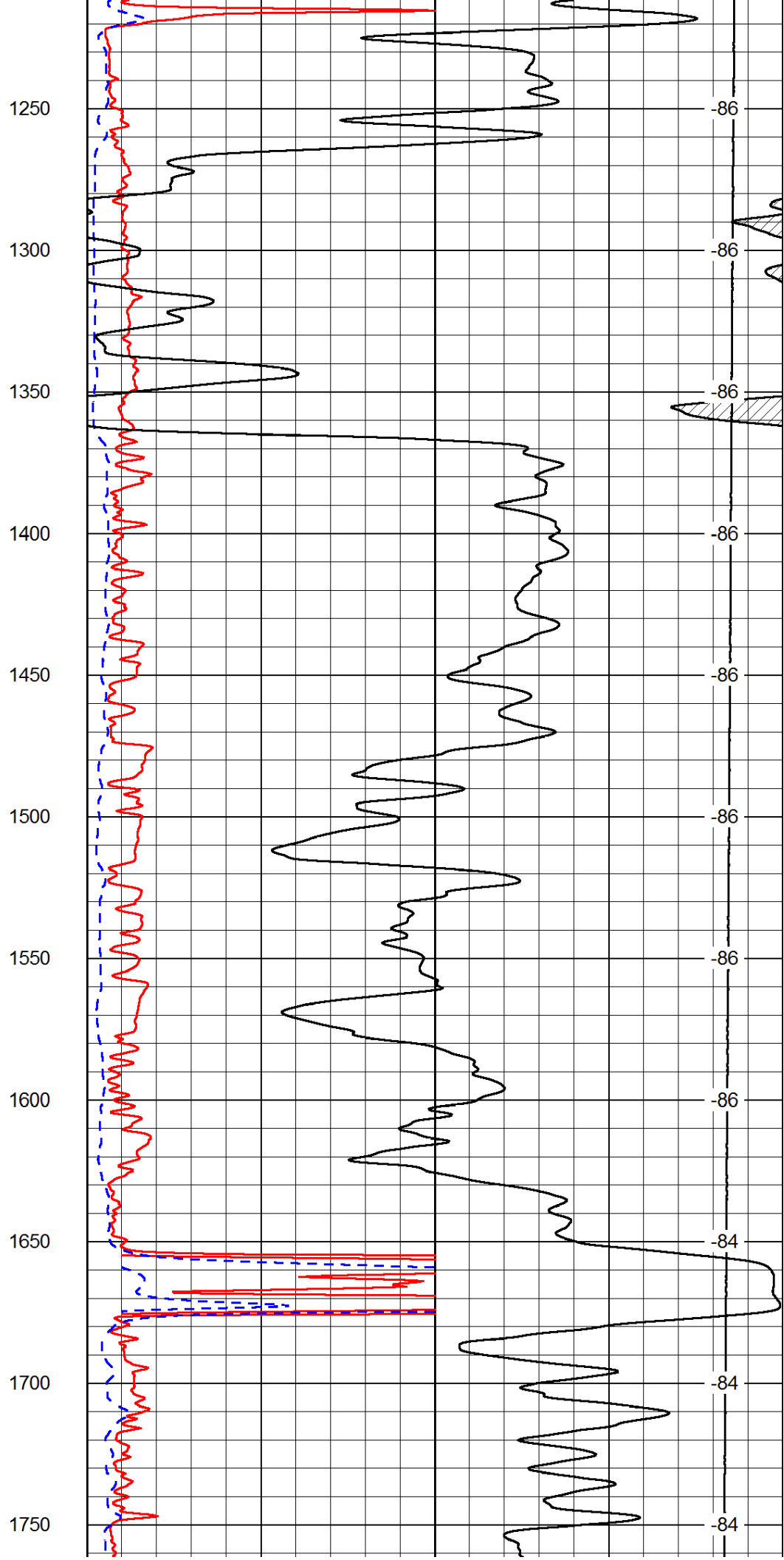
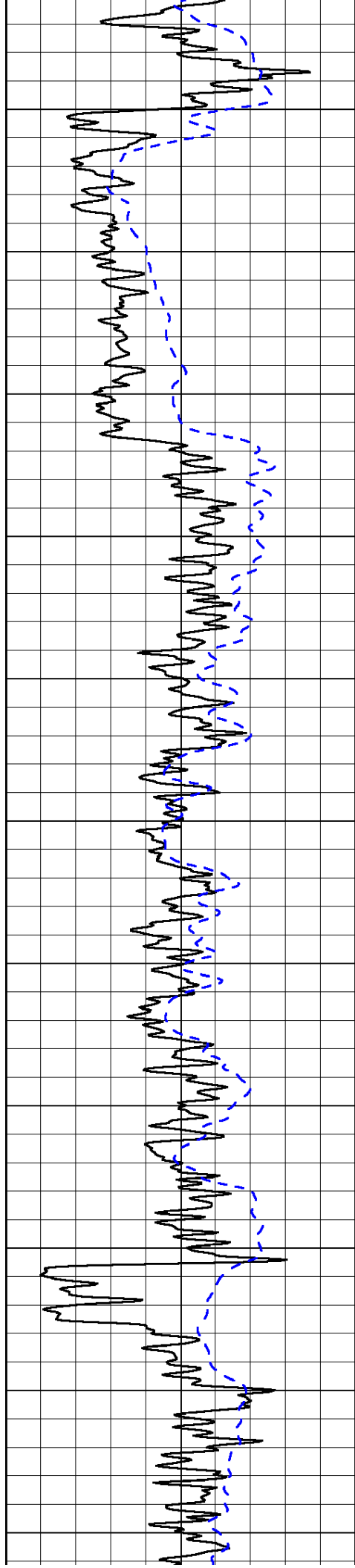
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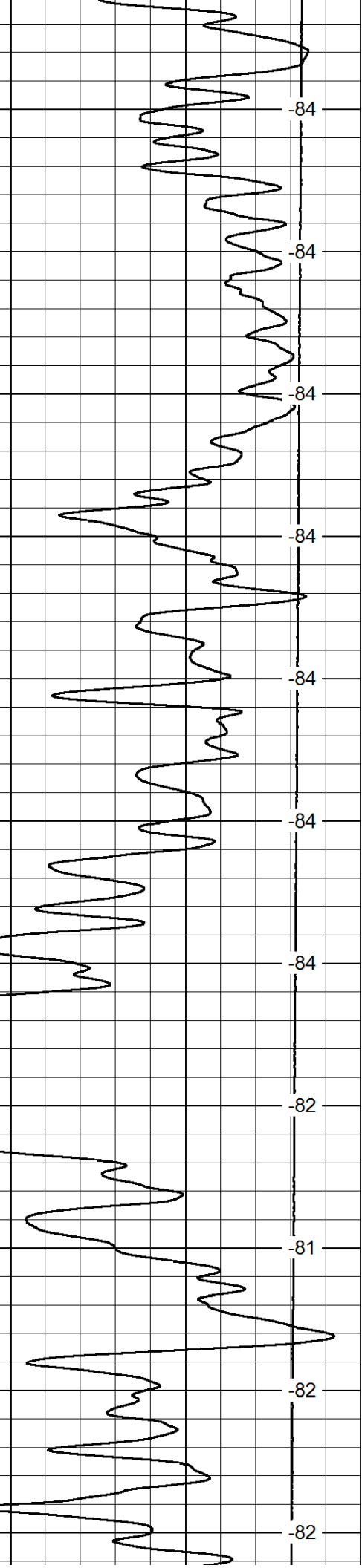
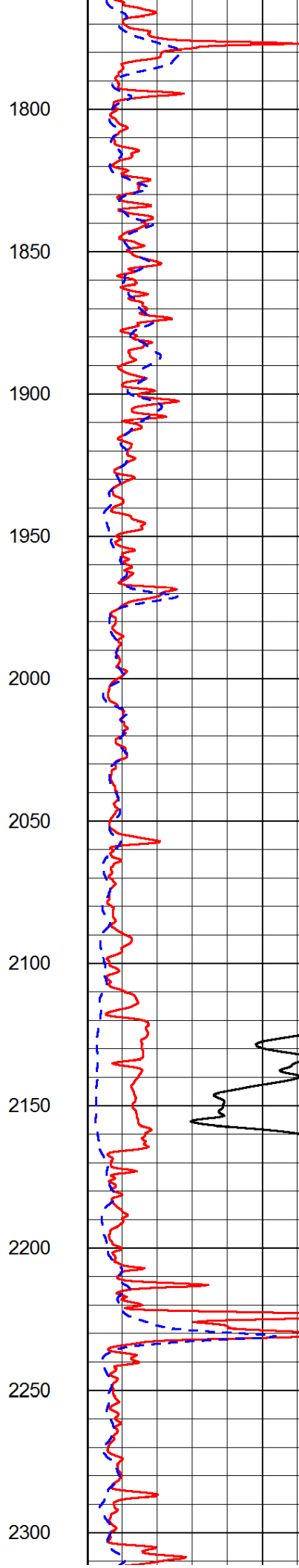
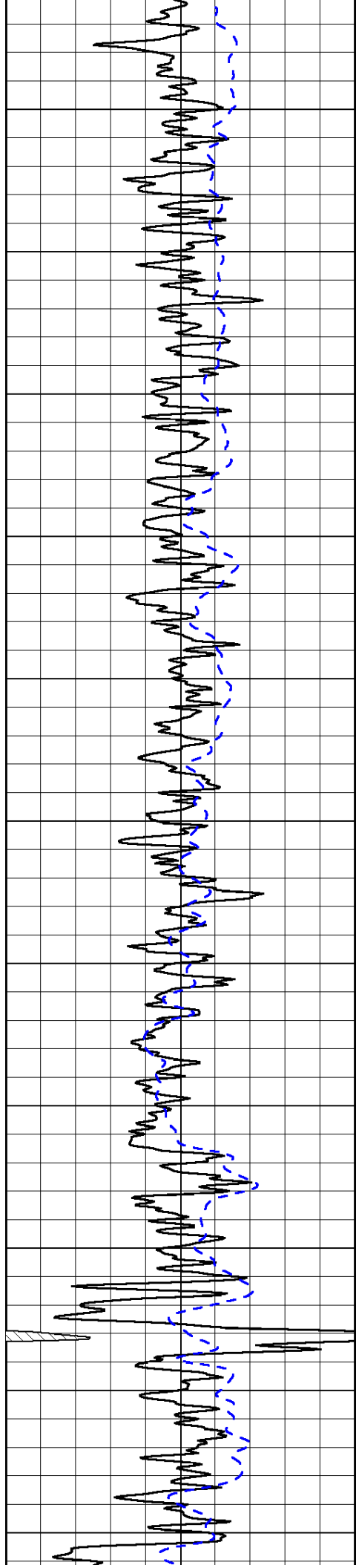


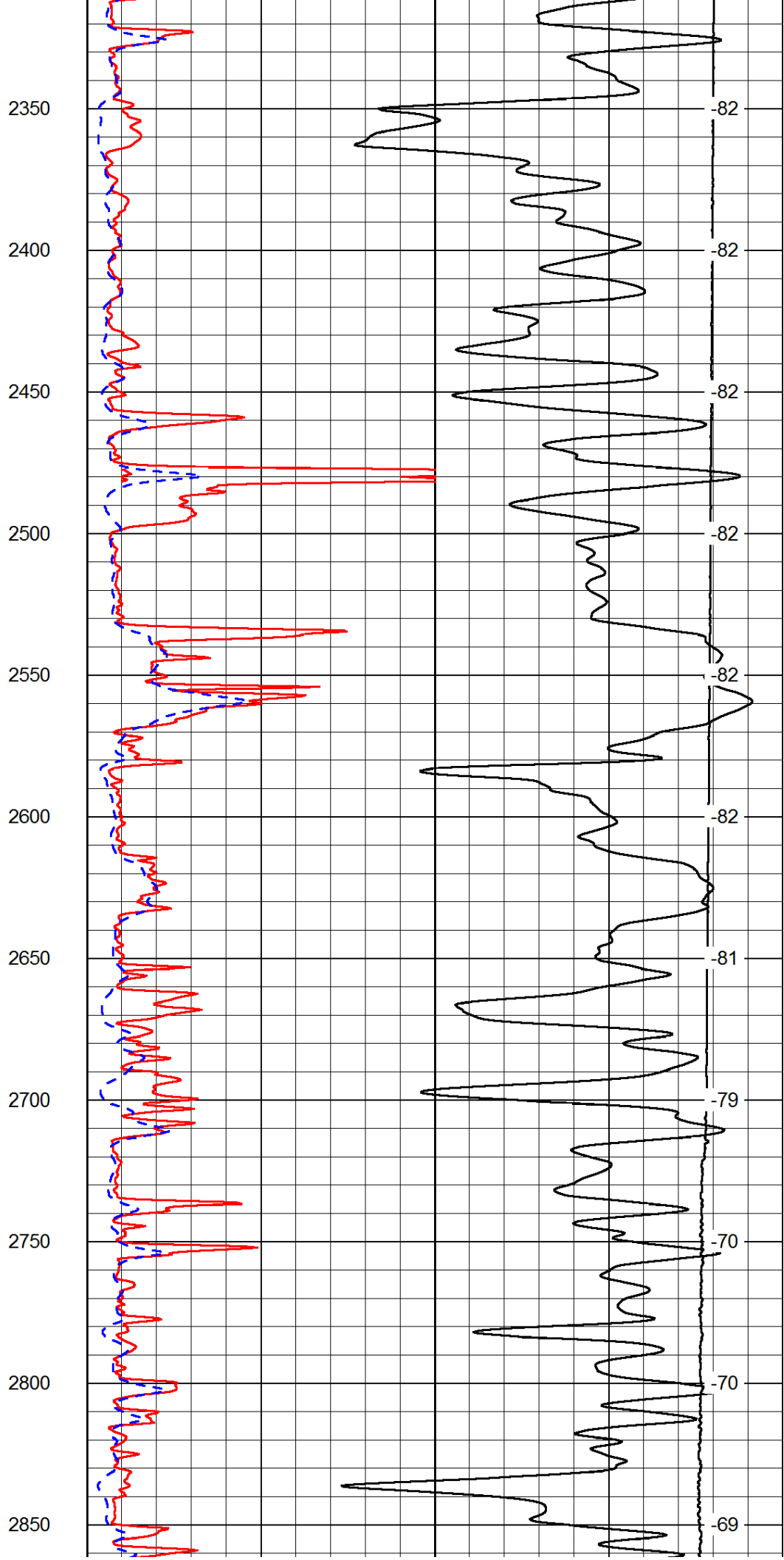
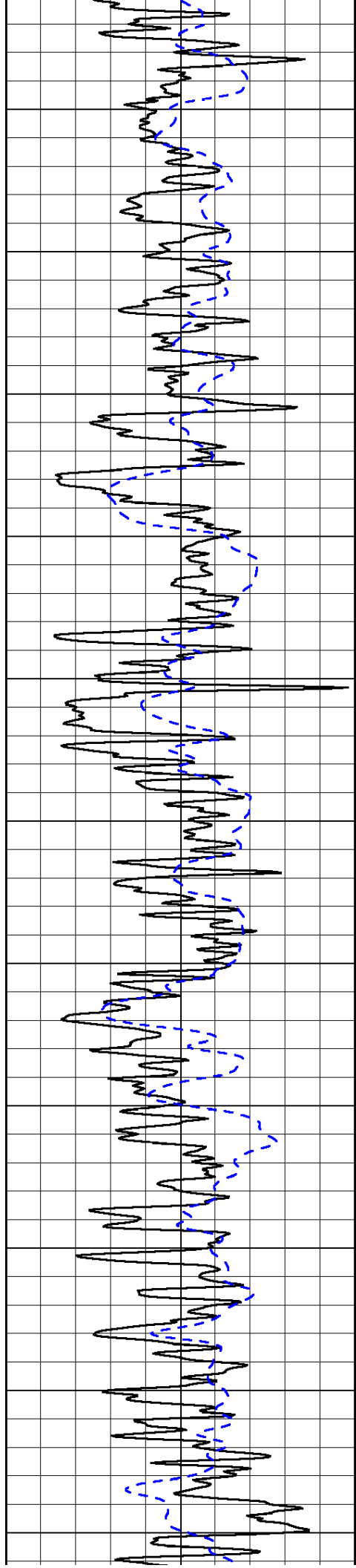
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
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50	Deep Resistivity	500

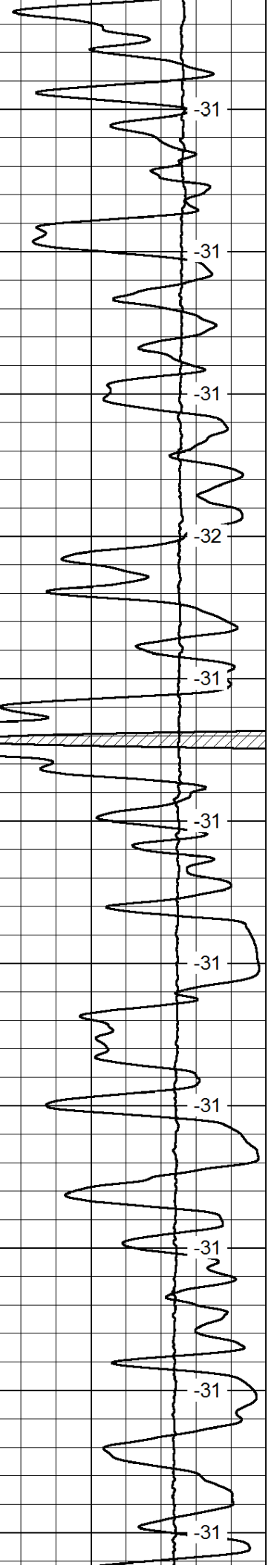
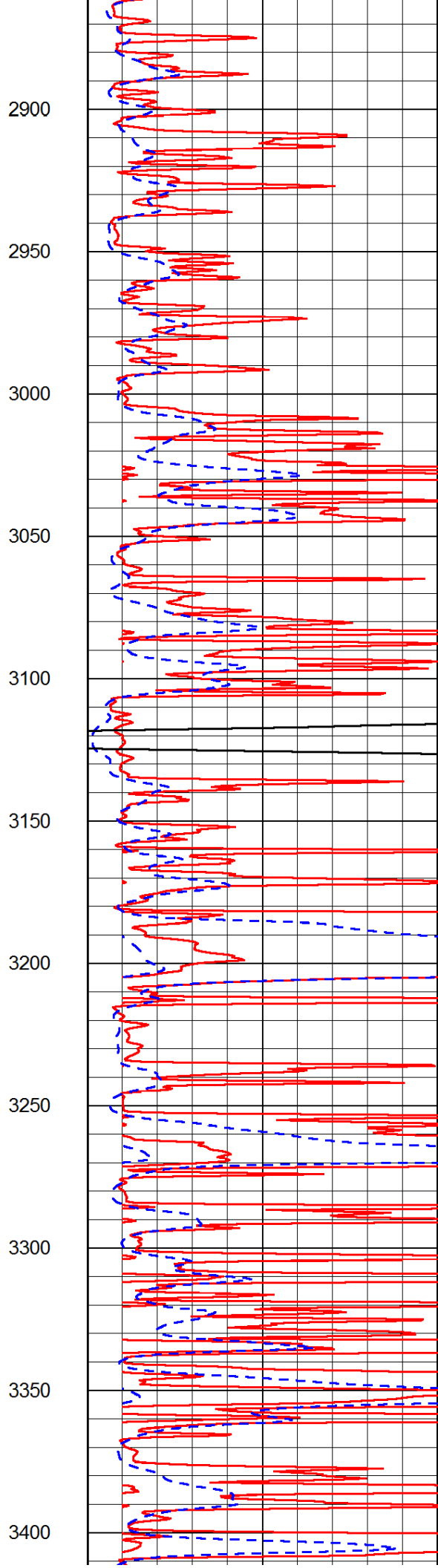
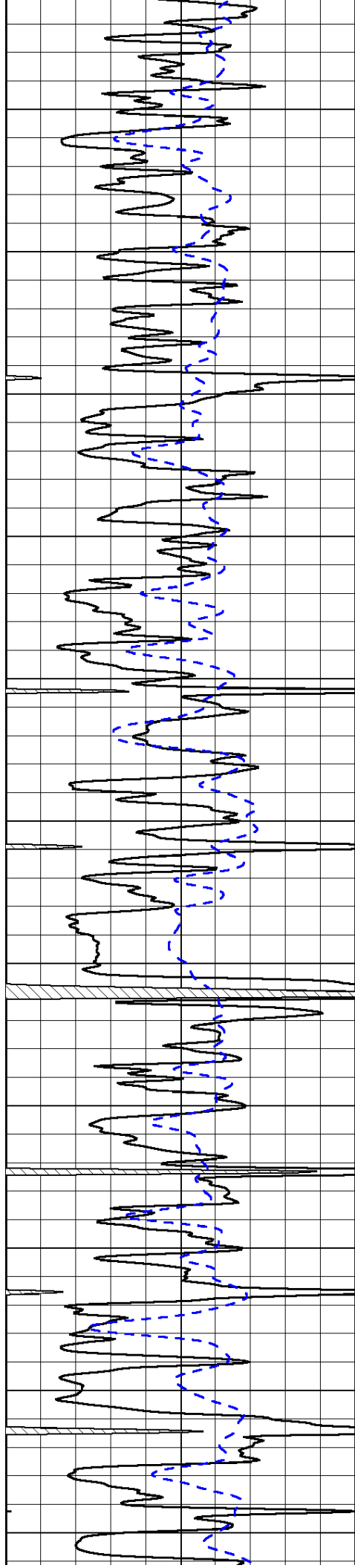


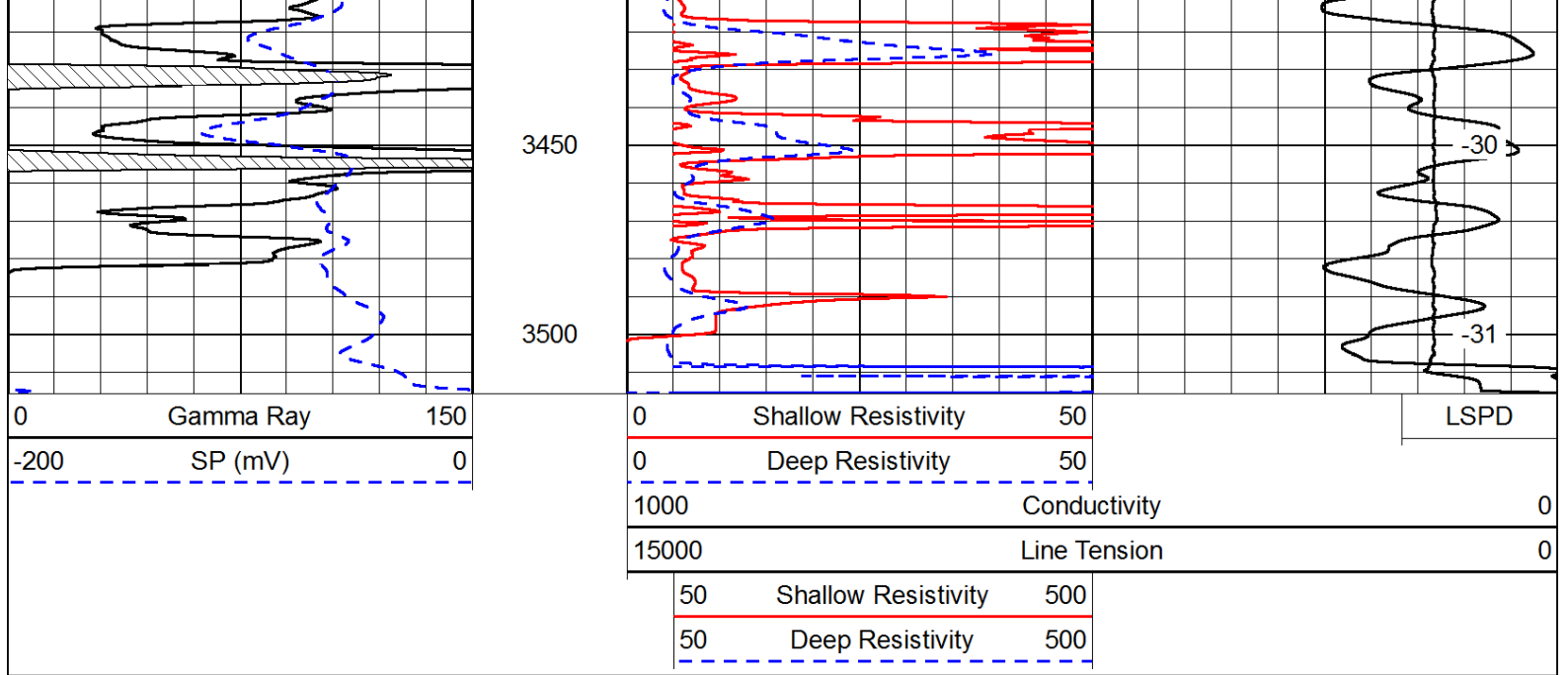




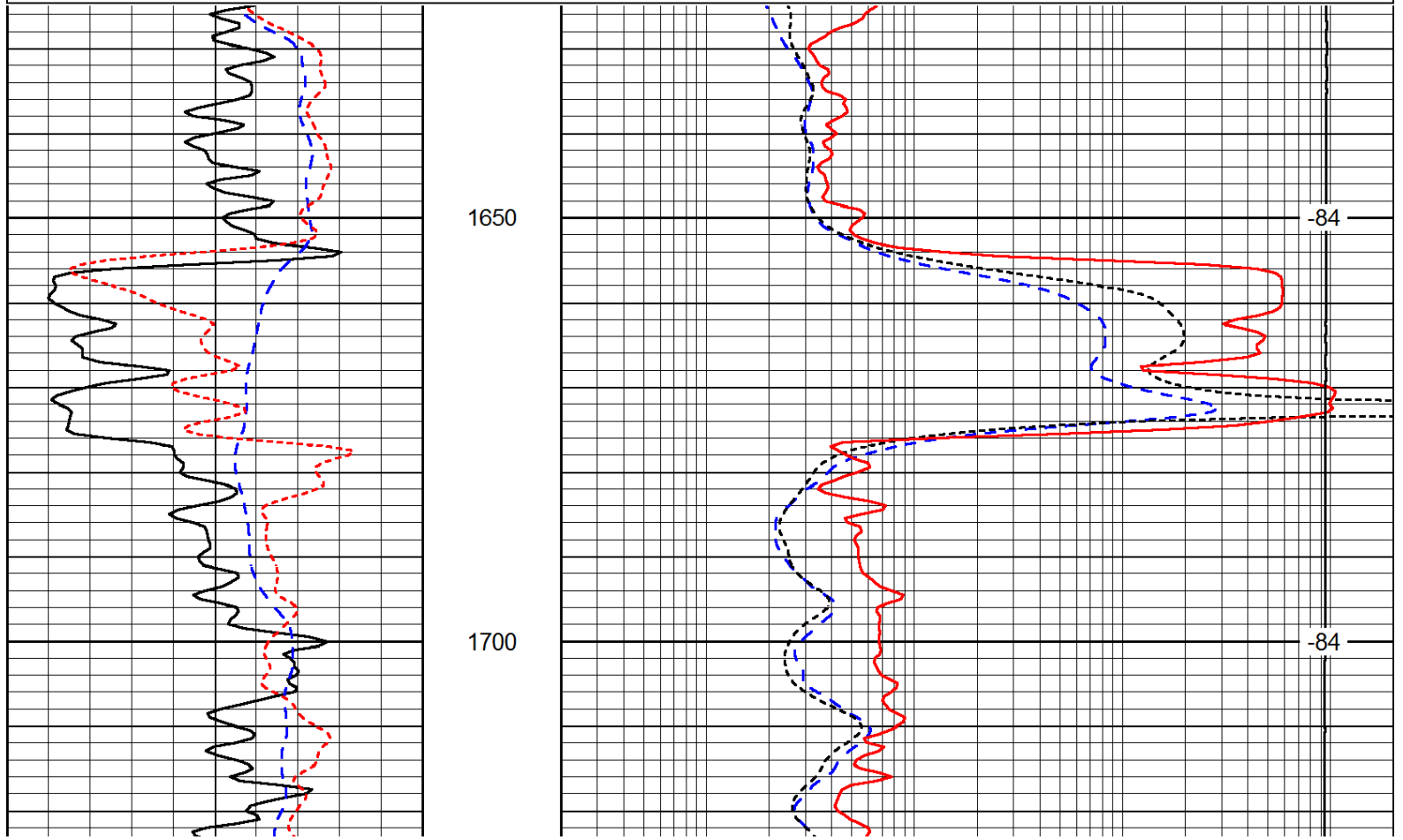
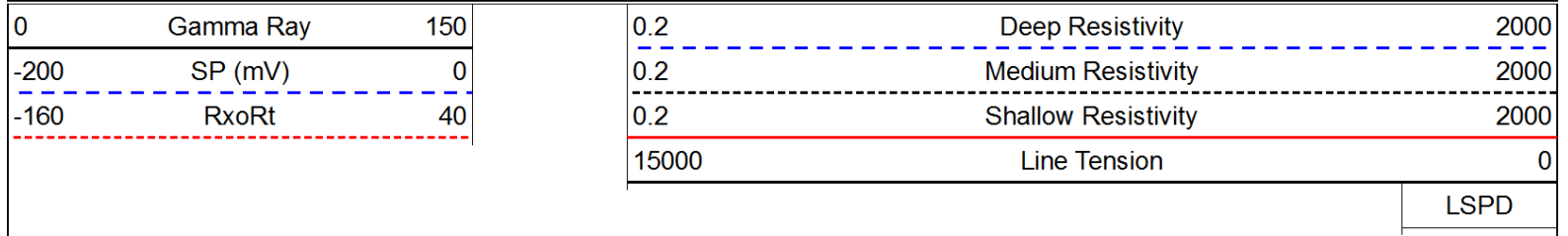








Database File: c:\warrior\data\bach_jessup unit no.2\bachhd.db
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 Presentation Format: dil
 Dataset Creation: Sun Sep 09 03:23:01 2012
 Charted by: Depth in Feet scaled 1:240



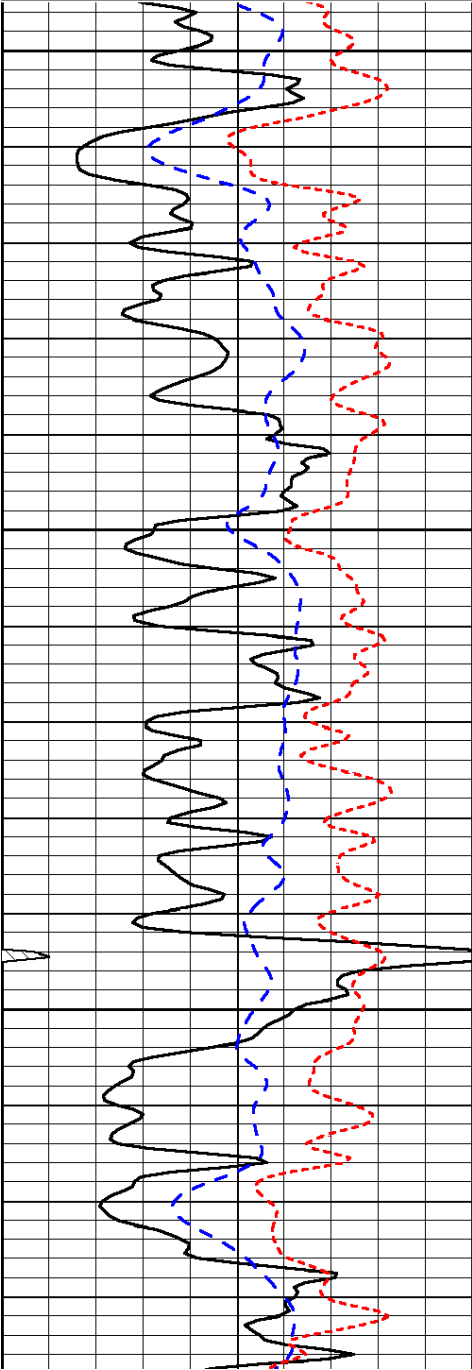
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

Database File:	c:\warrior\data\bach_jessup unit no.2\bachhd.db
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0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

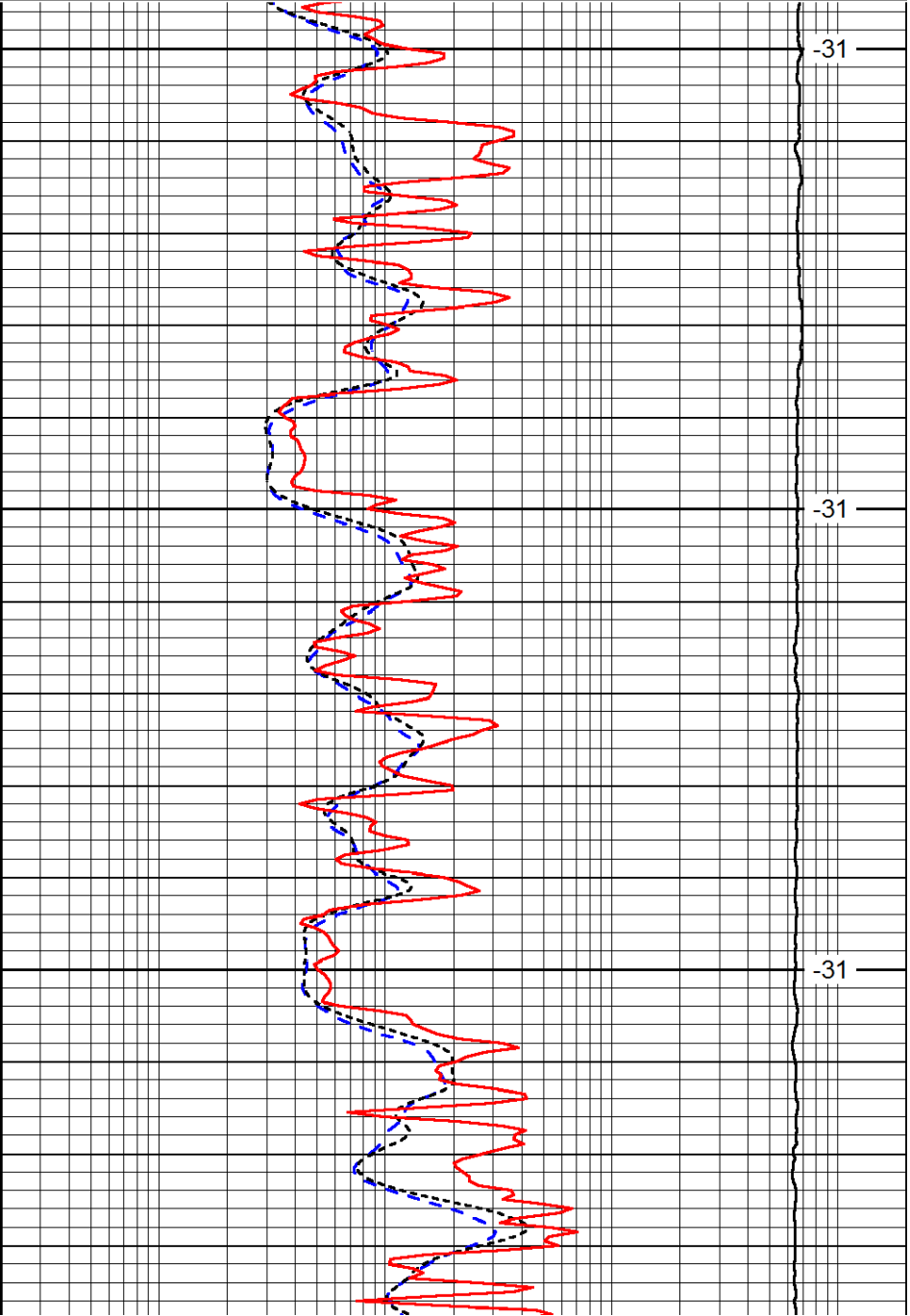
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0
		LSPD



2900

2950

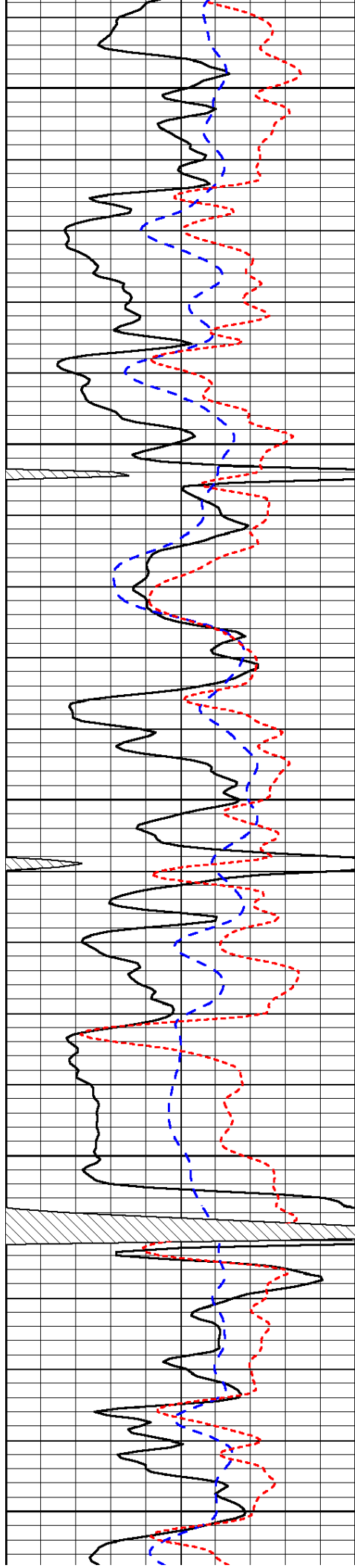
3000



-31

-31

-31



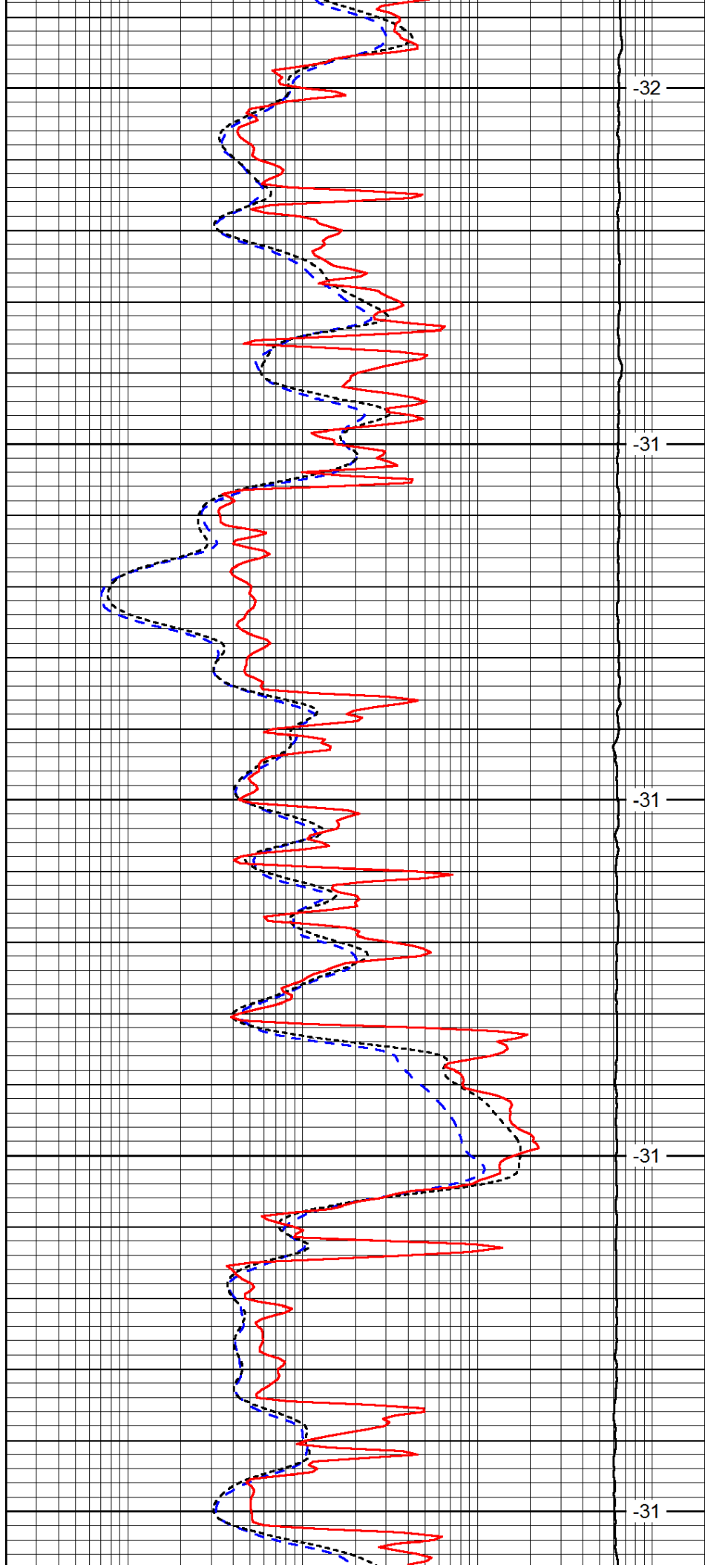
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3100

3150

3200

3250



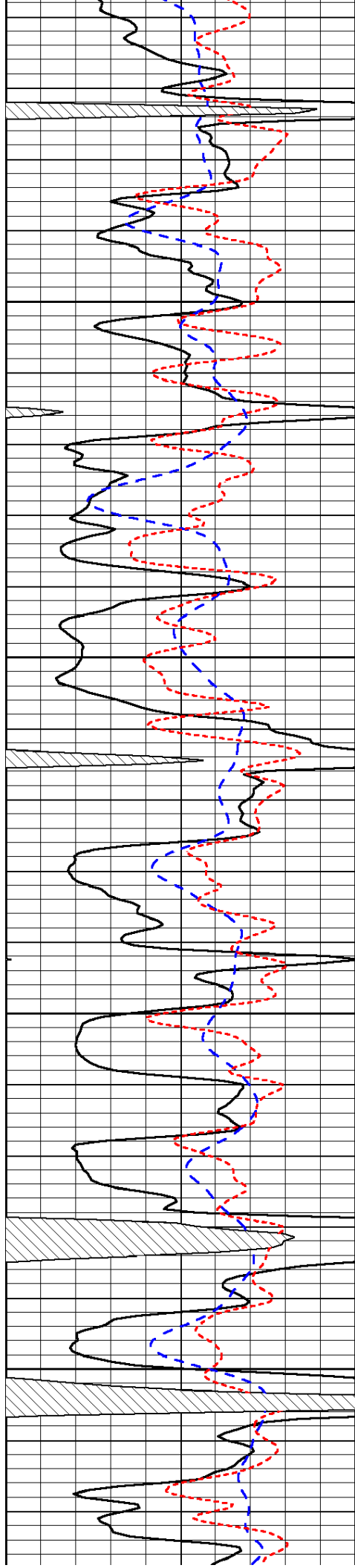
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-31

-31

-31

-31

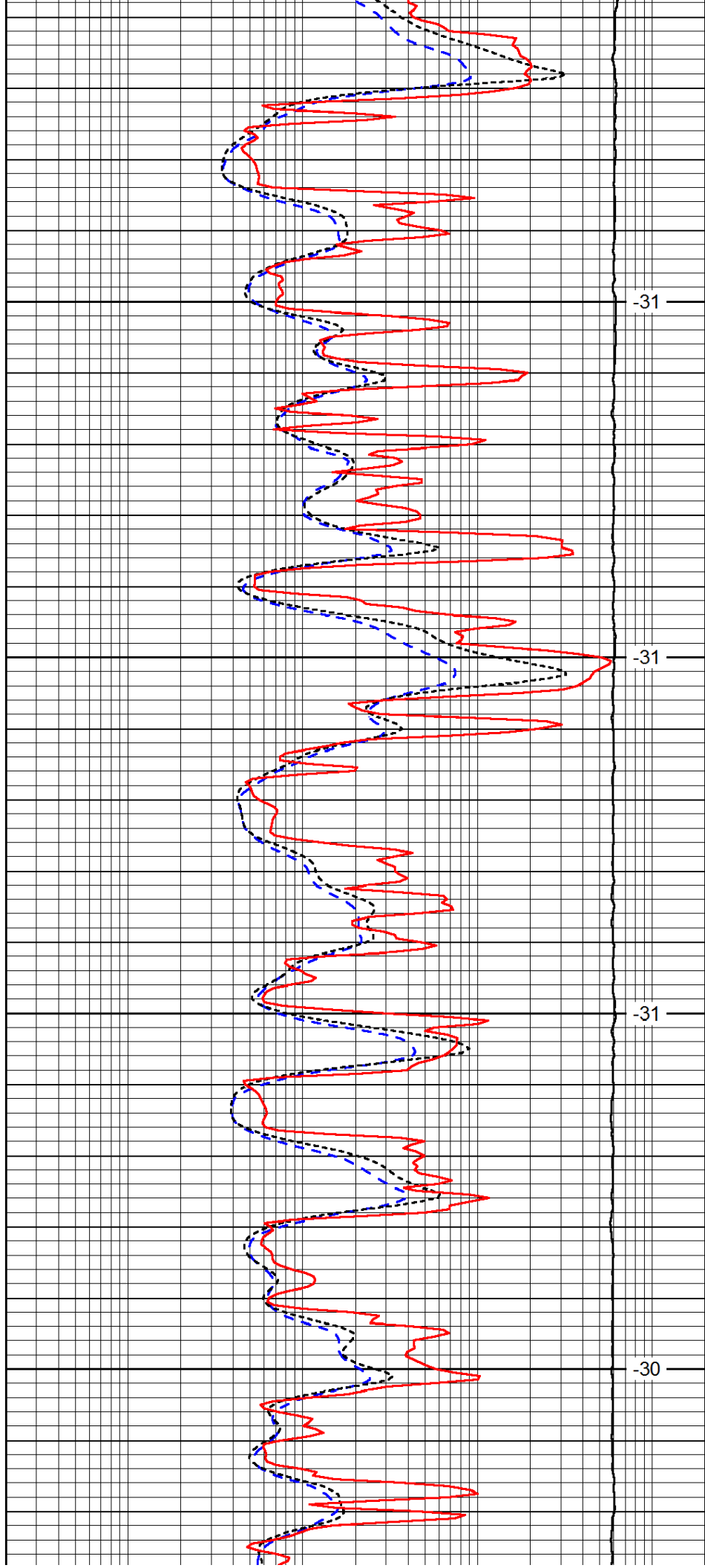


3300

3350

3400

3450

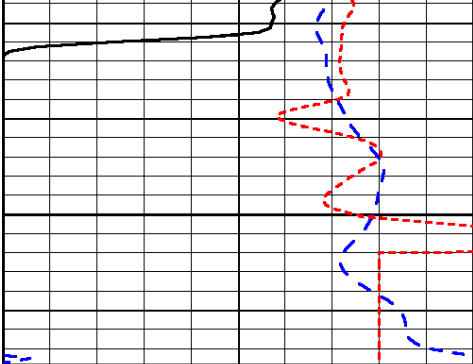


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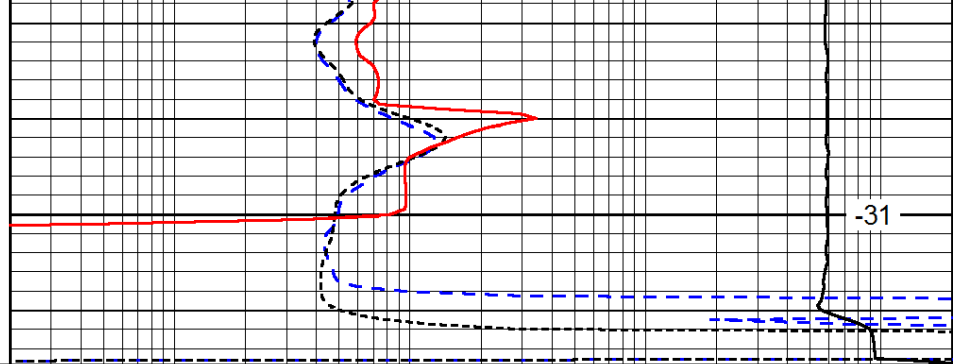
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-30



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-200	SP (mV)	0
-160	RxoRt	40

3500



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000

15000	Line Tension	0
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LSPD