



Dual Induction Log

Pioneer Energy Services

API No.

15-167-24,015-00-00

Company **Fossil Energy, LLC**

Well **Stielow #1-32**

Field

County **Russell** State **Kansas**

Location

SE-NW-SW-SE
900' FSL & 2250' FEL

Sec: **32** Twp: **11S** Rge: **14W**

Other Services
CNL/CDL

Permanent Datum Ground Level Elevation 1864

Log Measured From Kelly Bushing 6 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 1870
D.F. 1864
G.L. 1864

Date 12/13/2014

Run Number One

Depth Driller 3396

Depth Logger 3397

Bottom Logged Interval 3396

Top Log Interval 600

Casing Driller 8.625 @ 640

Casing Logger 638

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3.000

Density / Viscosity 9.3 52

pH / Fluid Loss 9.0 8.0

Source of Sample Flowline

Rm @ Meas. Temp .82 @ 53

Rmf @ Meas. Temp .52 @ 53

Rmc @ Meas. Temp 1.11 @ 53

Source of Rmf / Rmc Charts

Rm @ BHT .40 @ 110

Operating Rig Time 3 Hours

Max Rec. Temp. F 110

Equipment Number 108

Location Hays

Recorded By J. Henrickson

Witnessed By Randy Kilian

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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

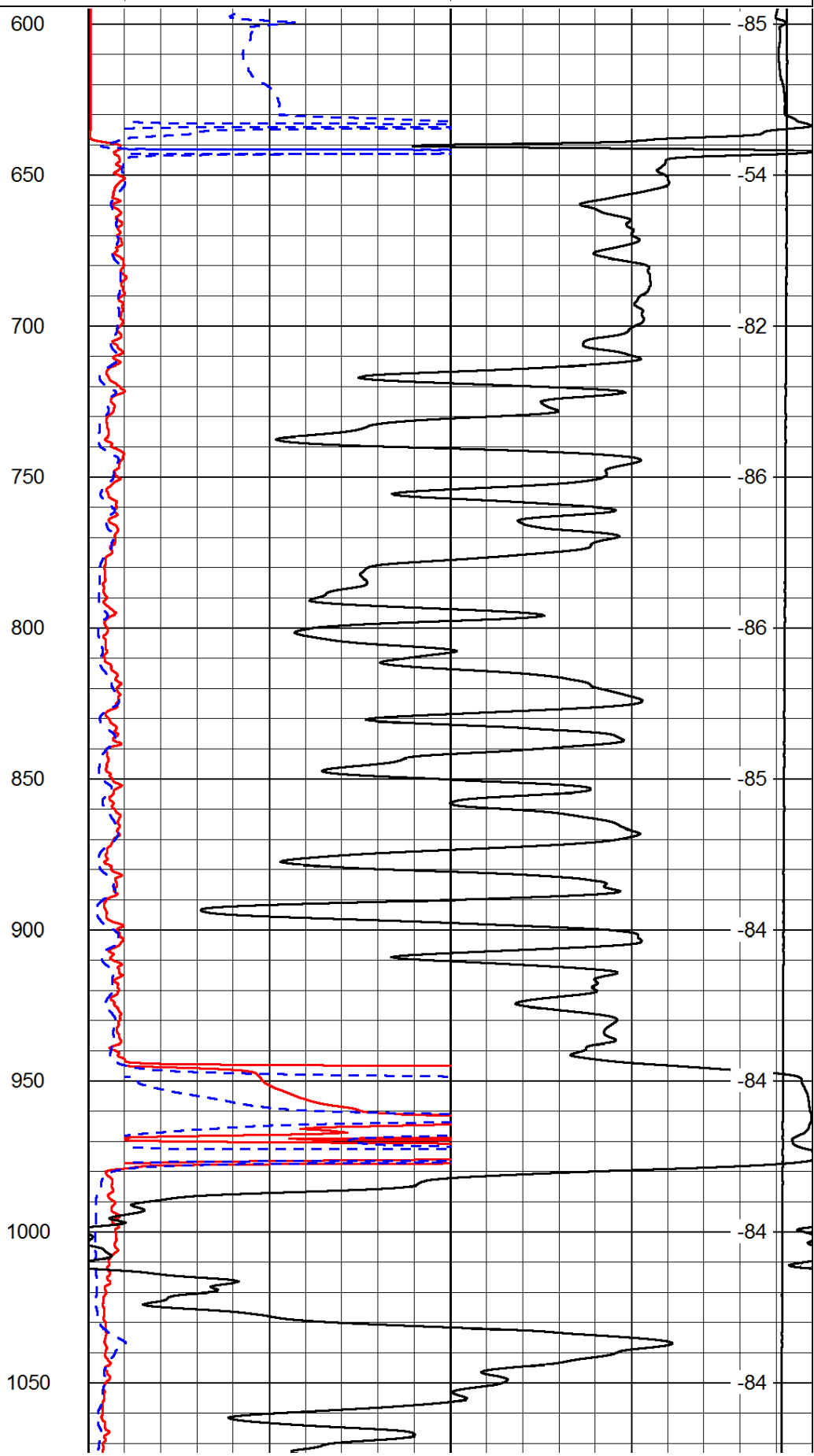
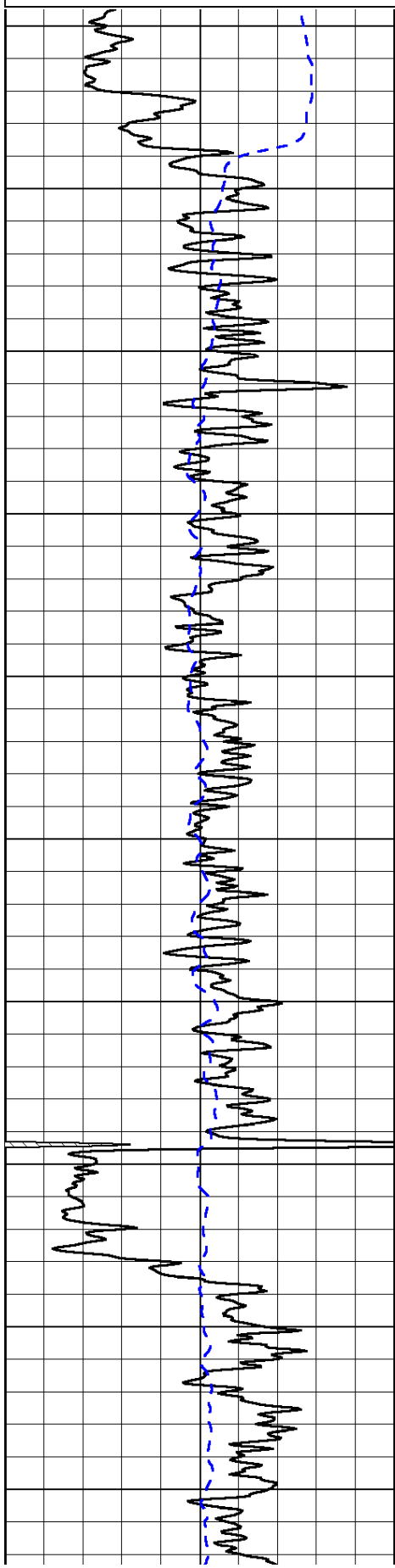
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Russell Kansas
North to Saline Rver Road, 1 West, 1 North, 1 1/4 West, North Into

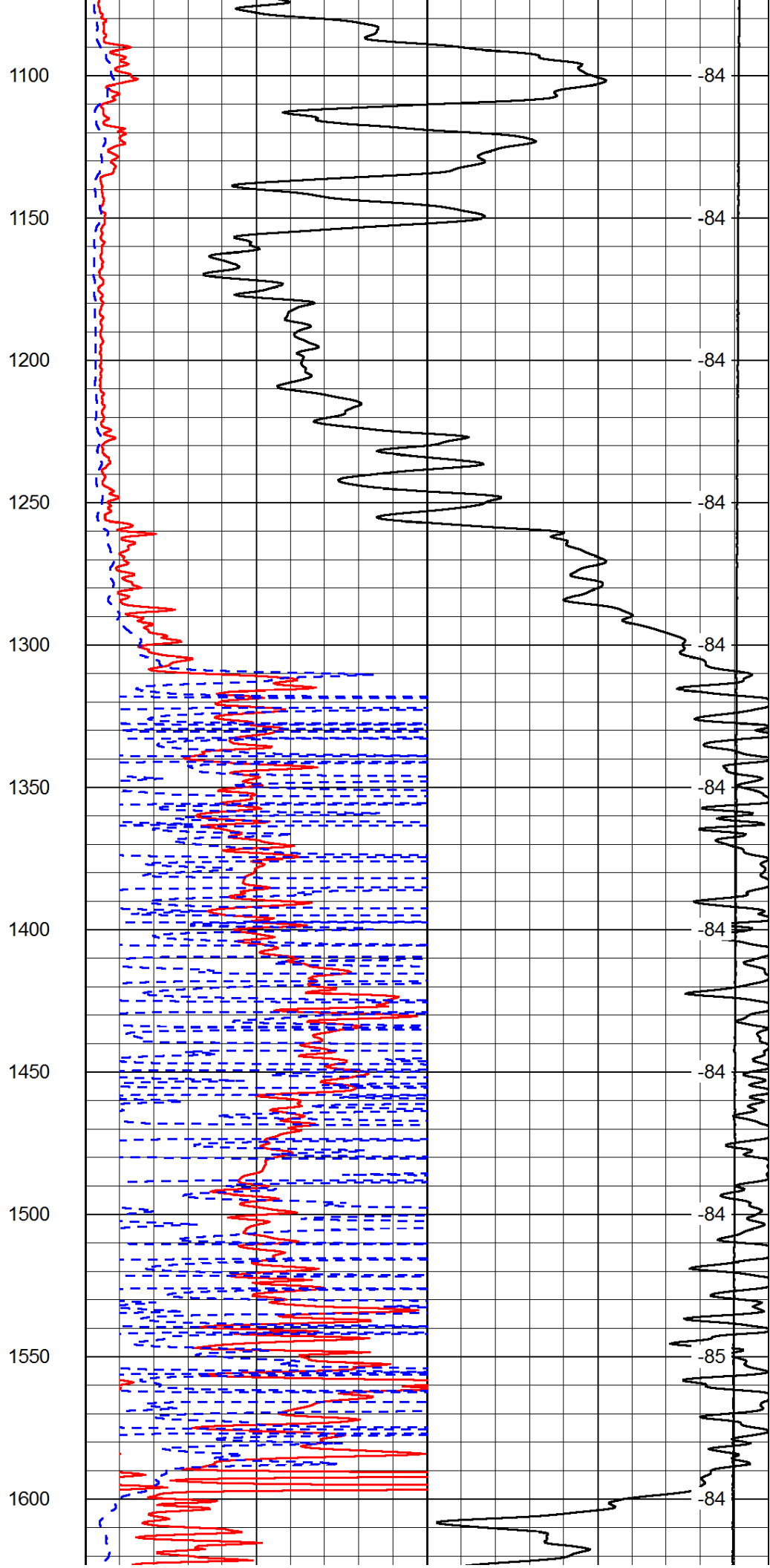
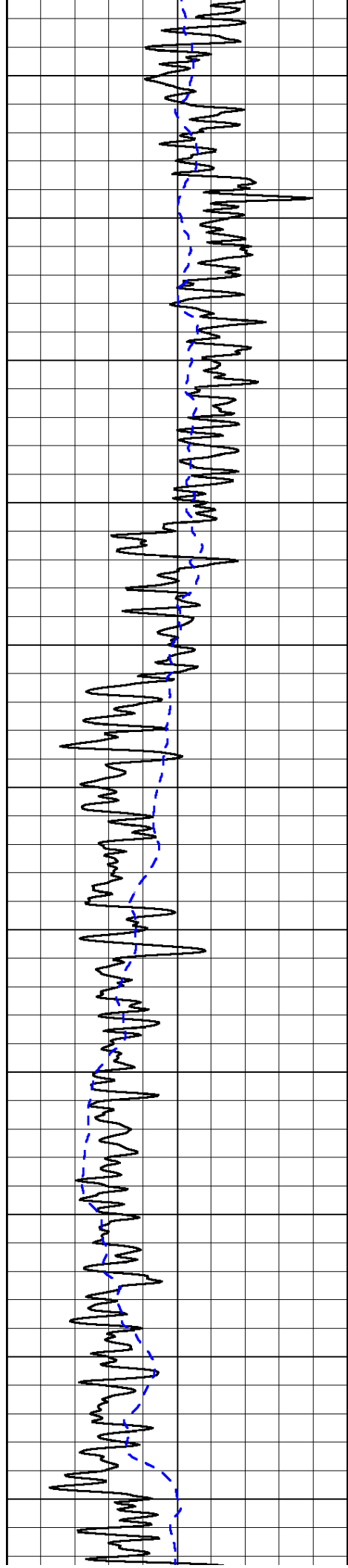
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Presentation Format: dil2in
Dataset Creation: Sat Dec 13 14:27:05 2014
Charted by: Depth in Feet scaled 1:600

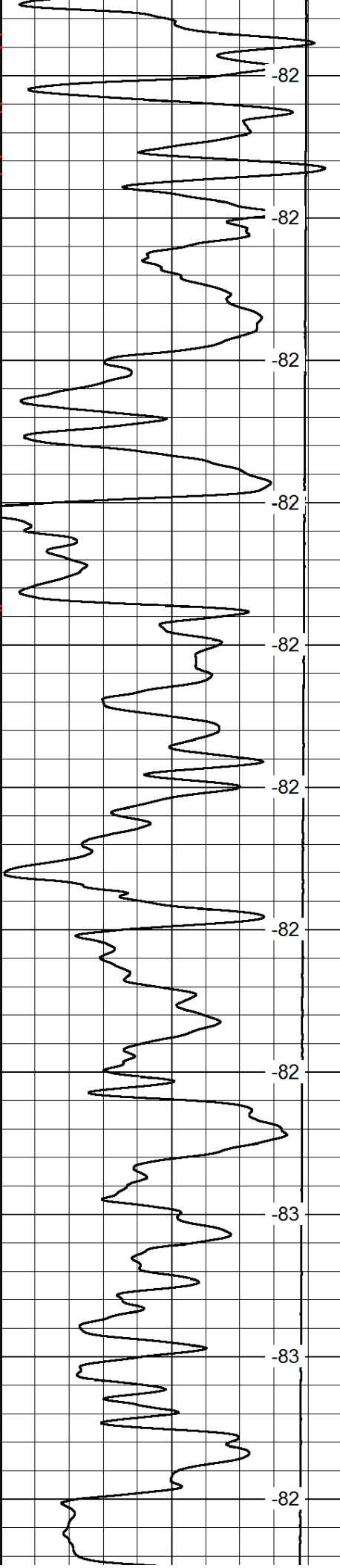
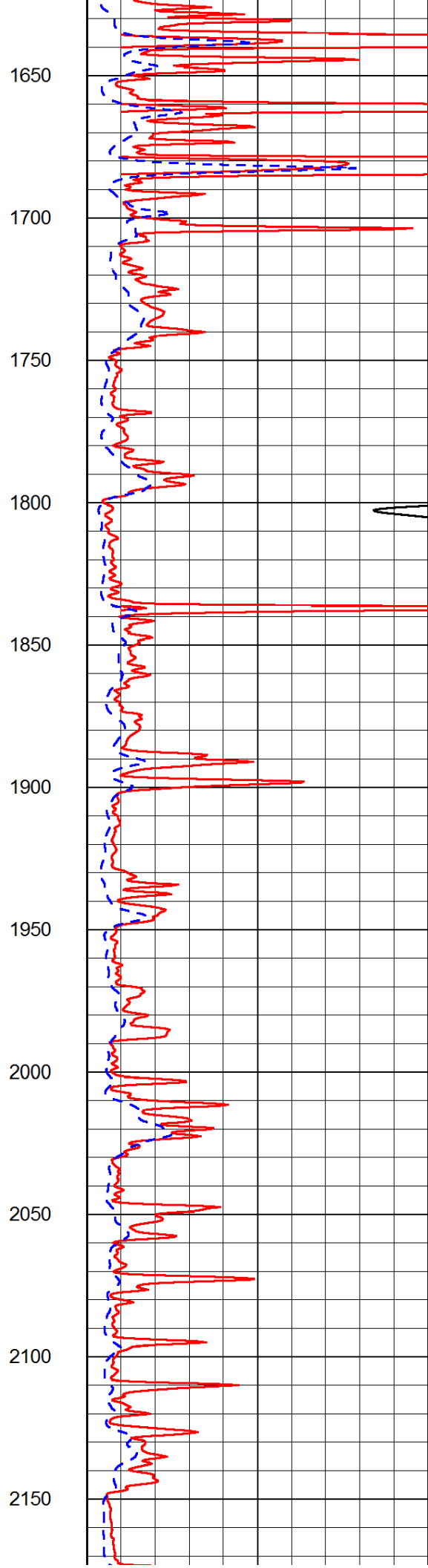
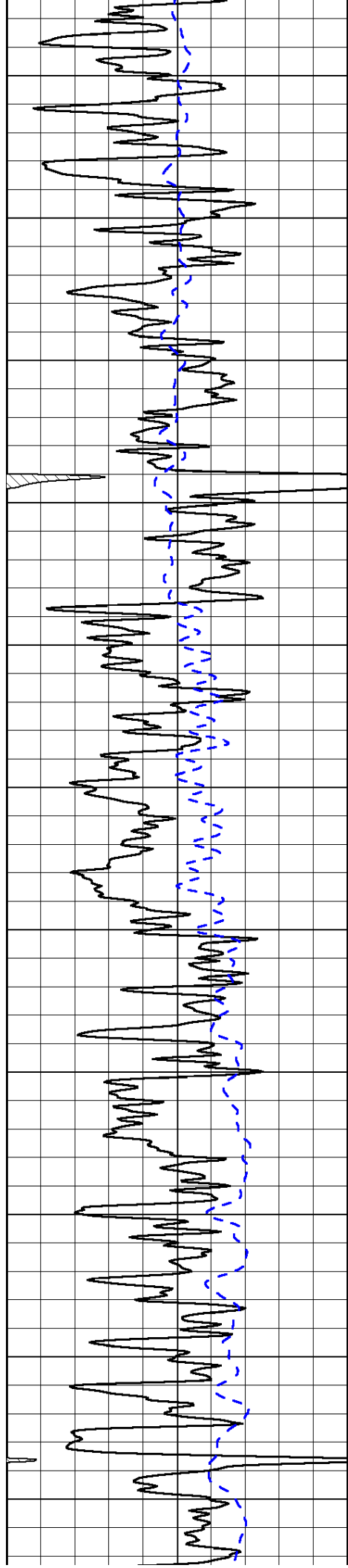
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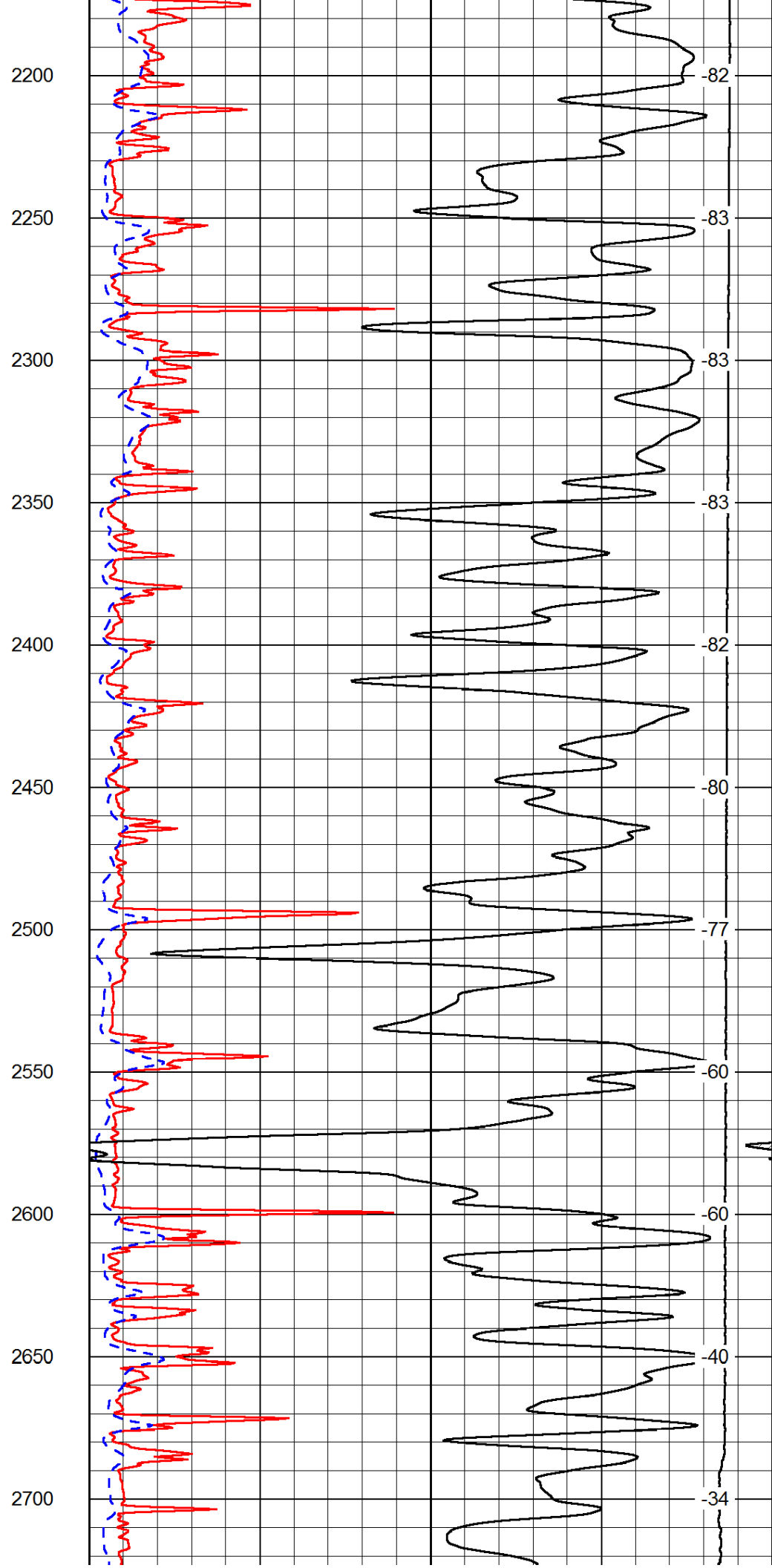
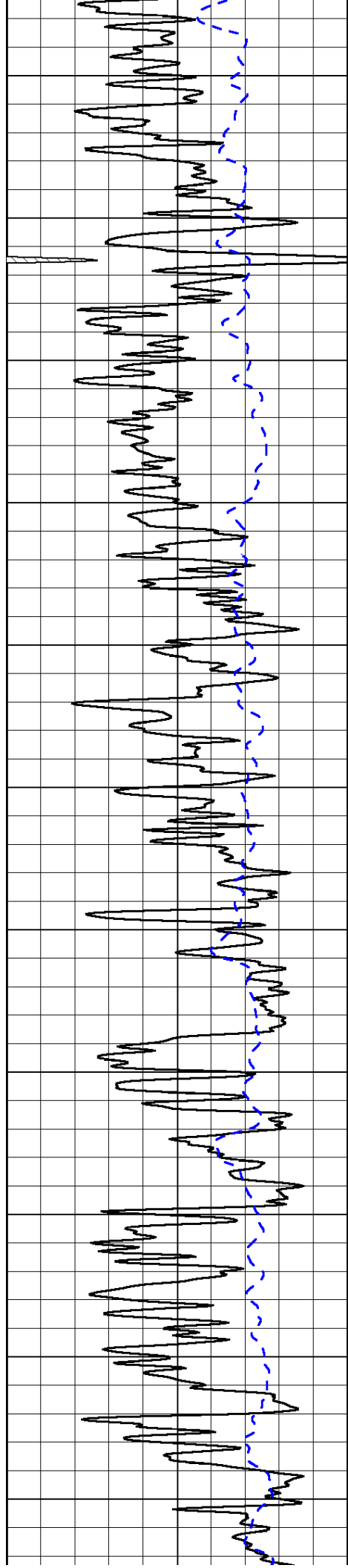
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
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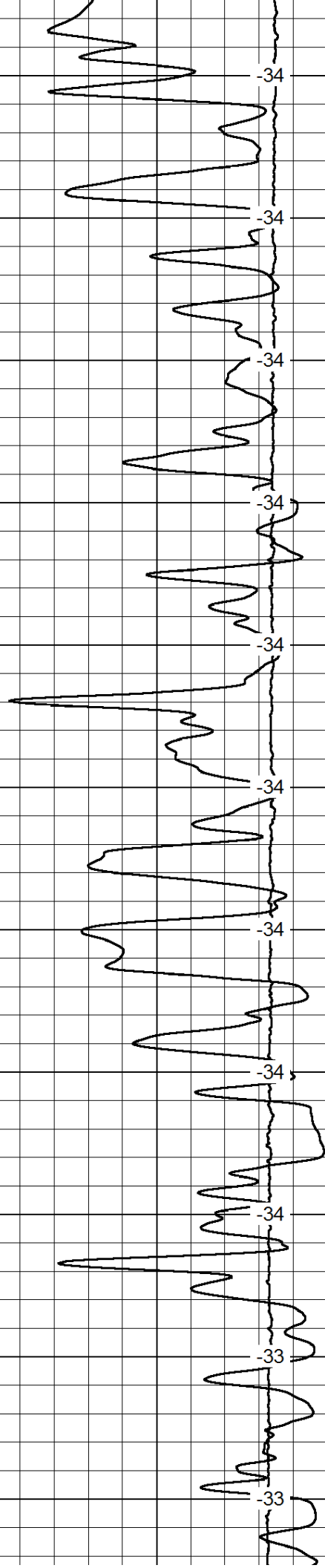
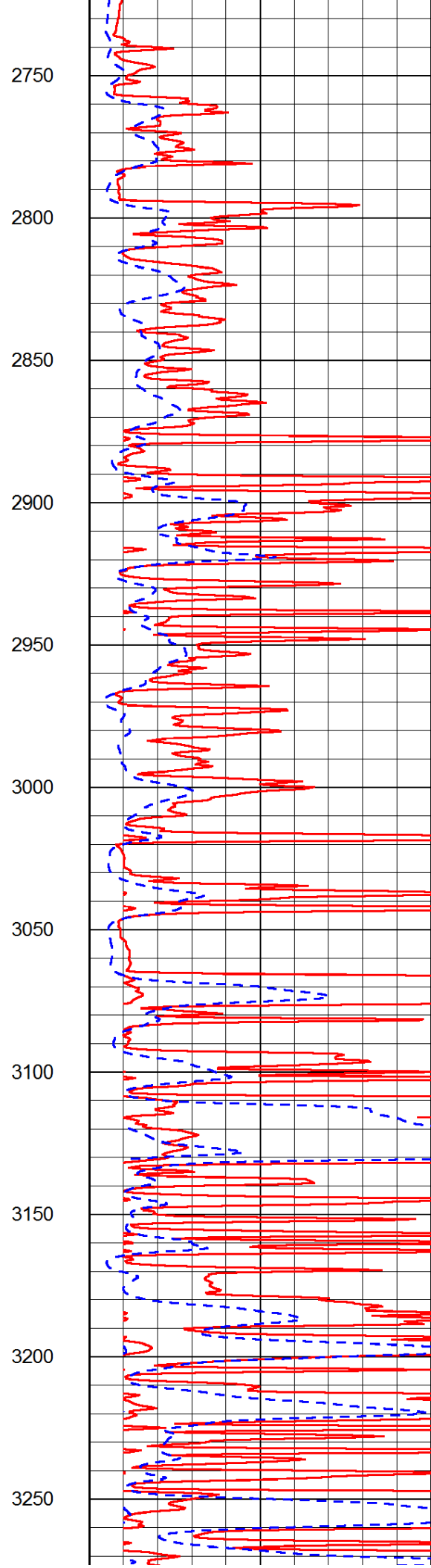
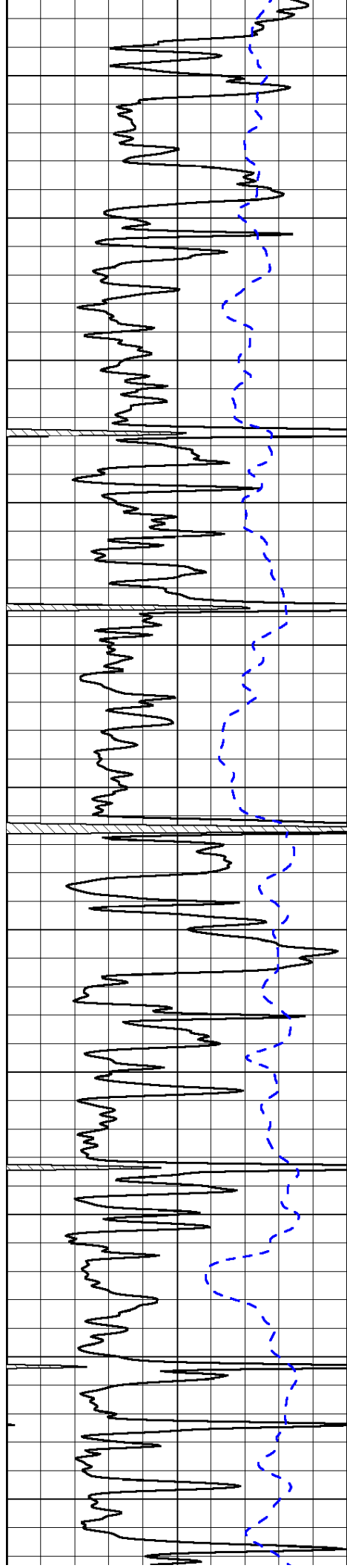
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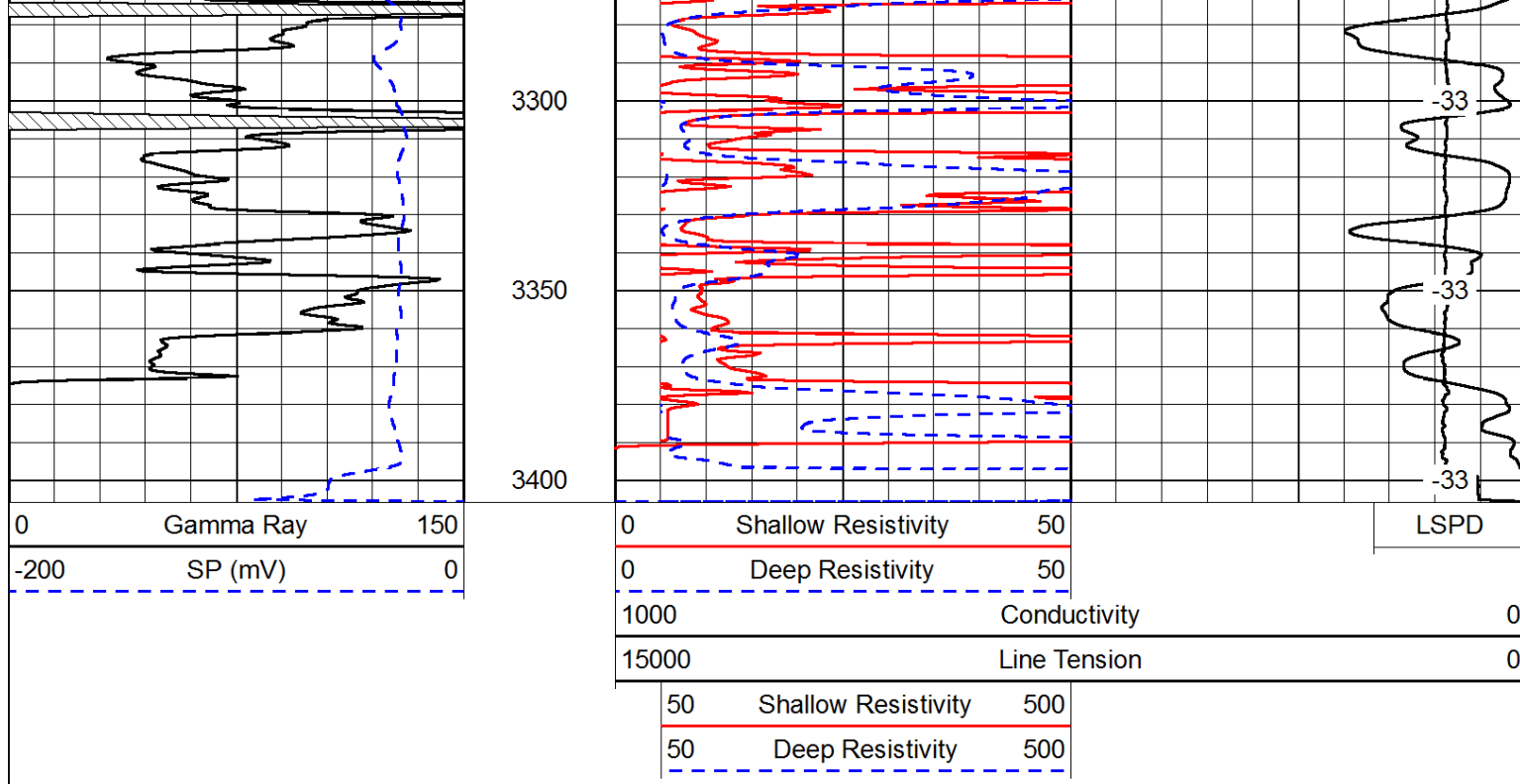




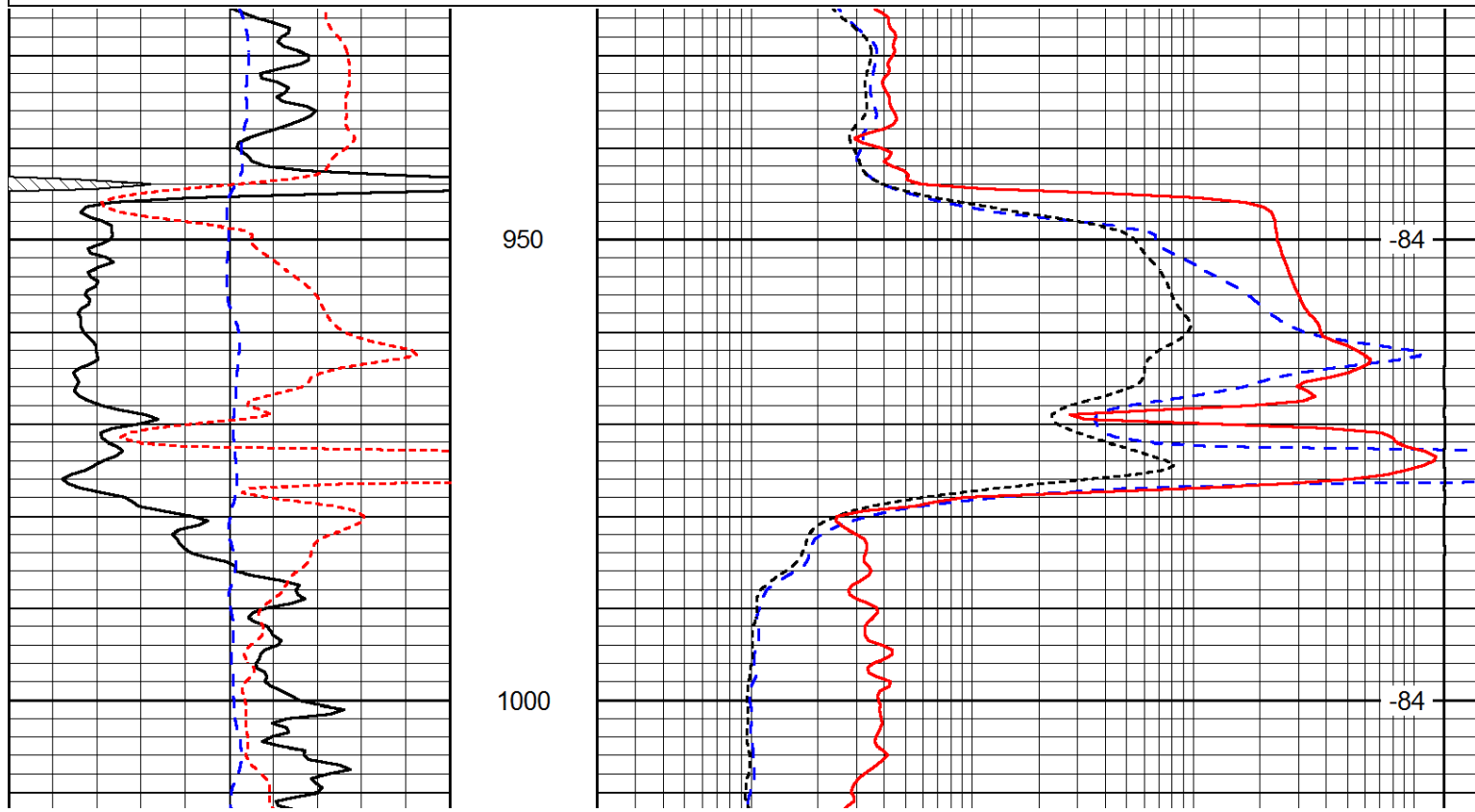
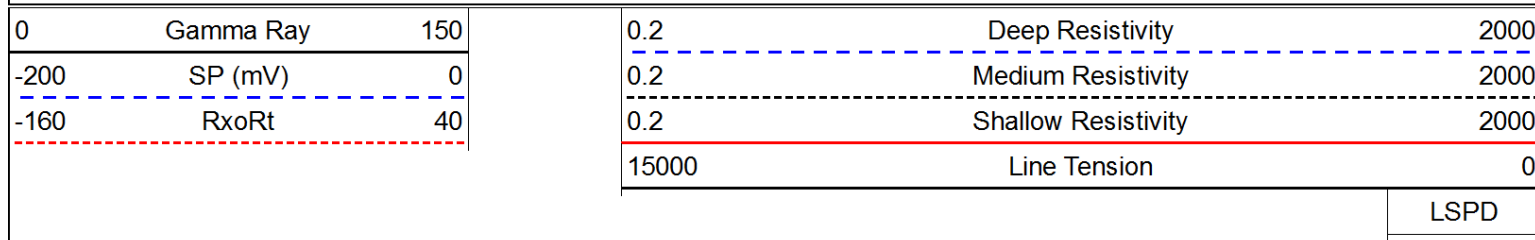


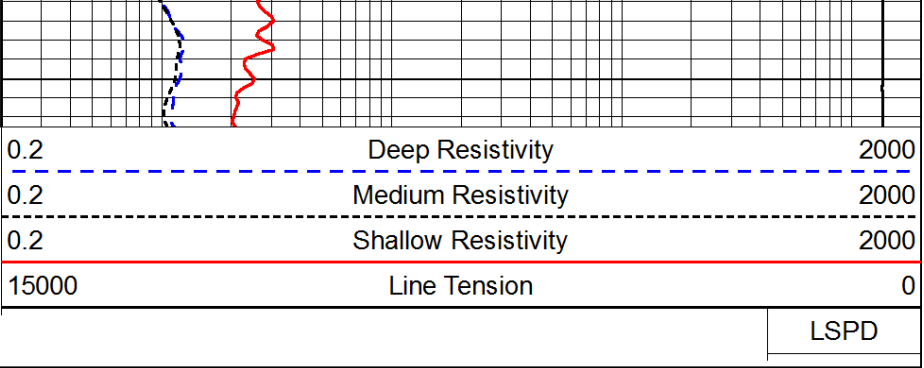
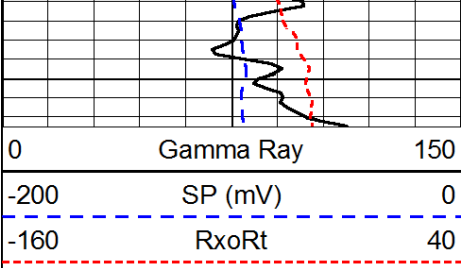




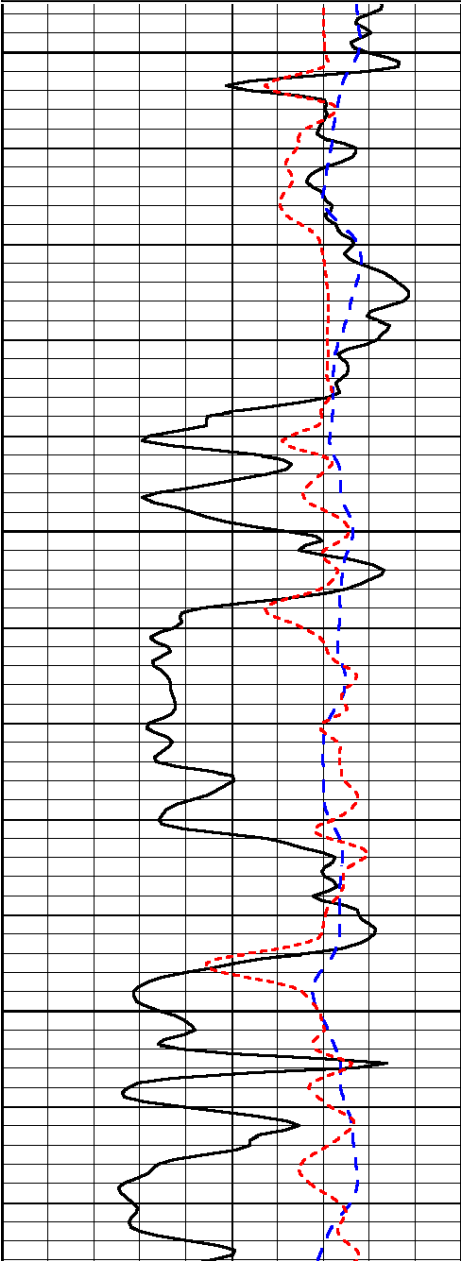
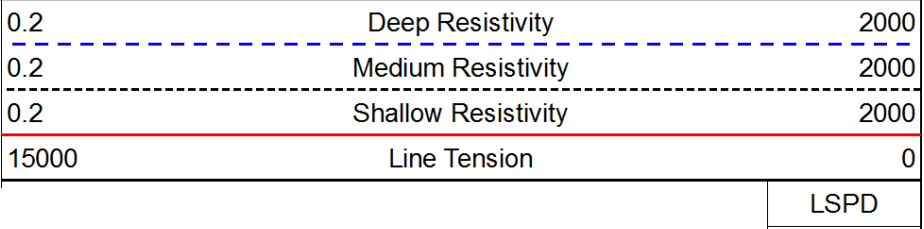
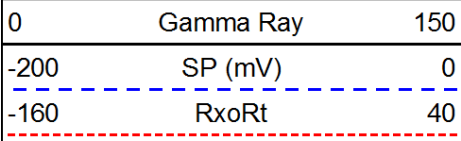


Database File: c:\warrior\data\fossil energy_stielow #1-32\fossil_stielow_1_32hd.db
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 Dataset Creation: Sat Dec 13 14:27:05 2014
 Charted by: Depth in Feet scaled 1:240

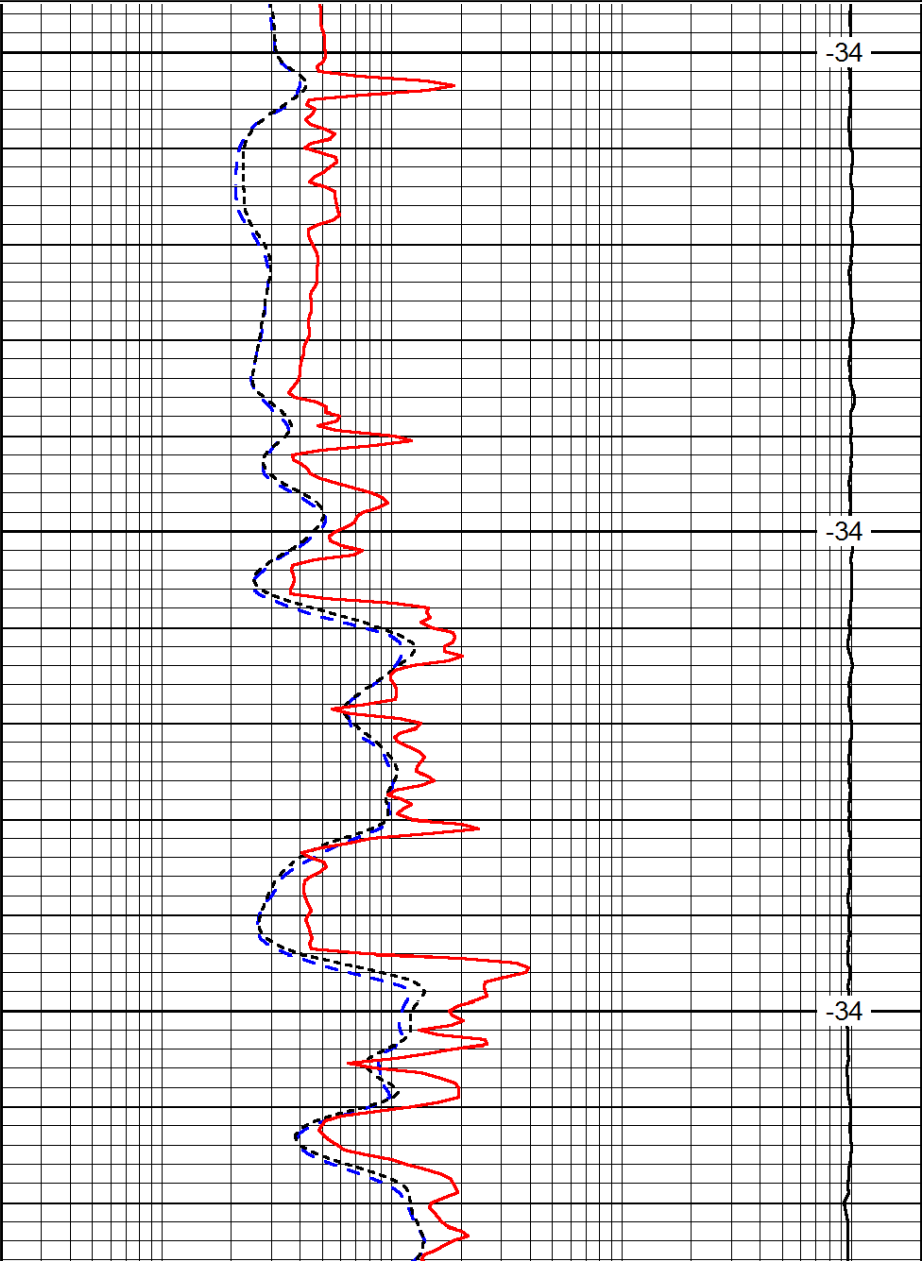




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2700



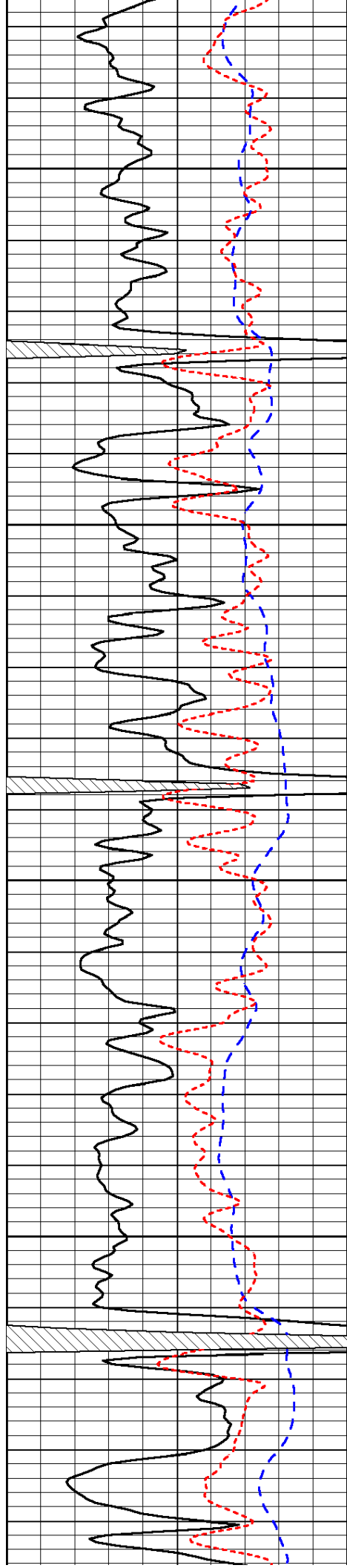
2750

2800

-34

-34

-34

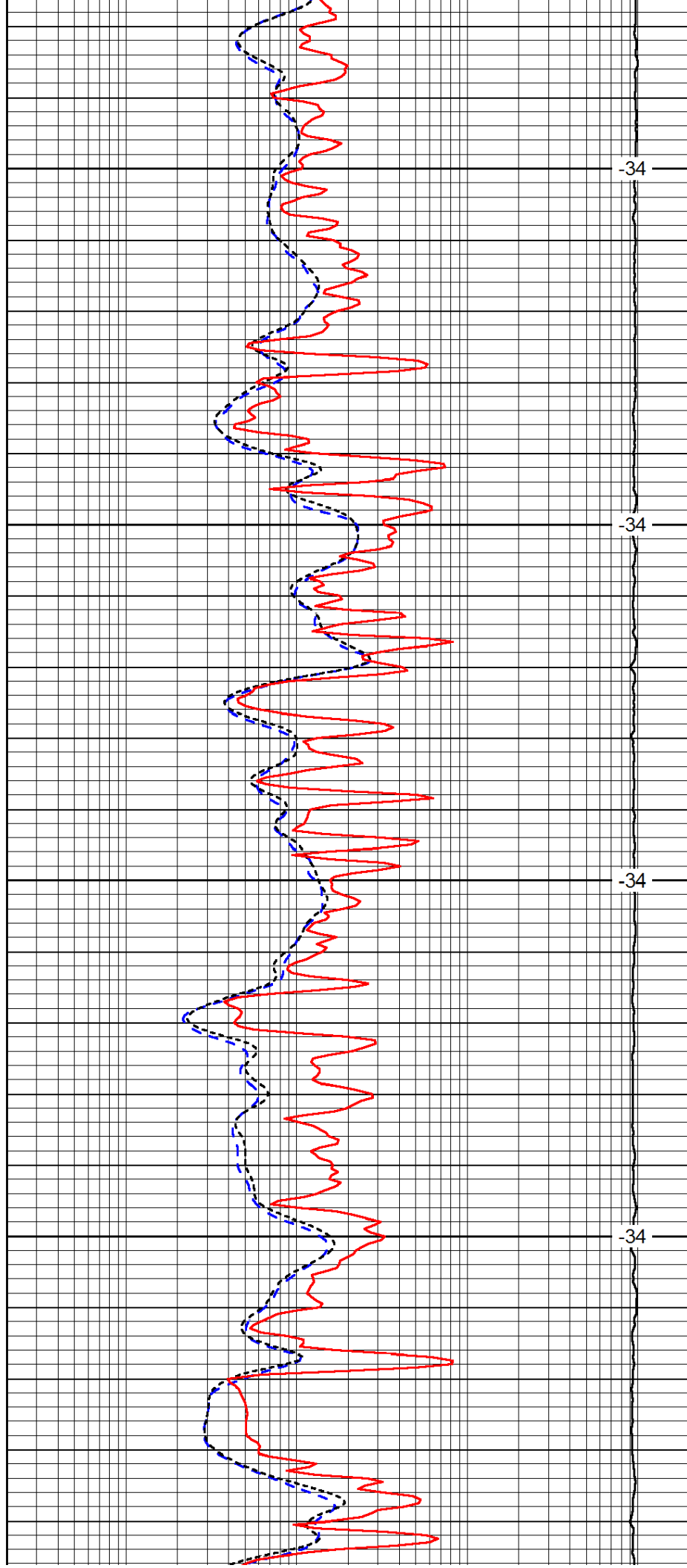


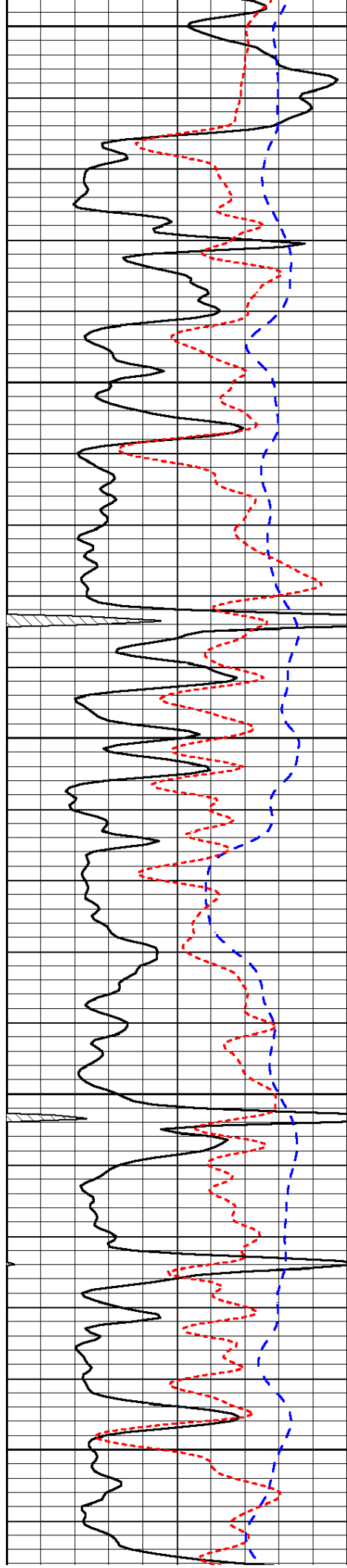
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2900

2950

3000





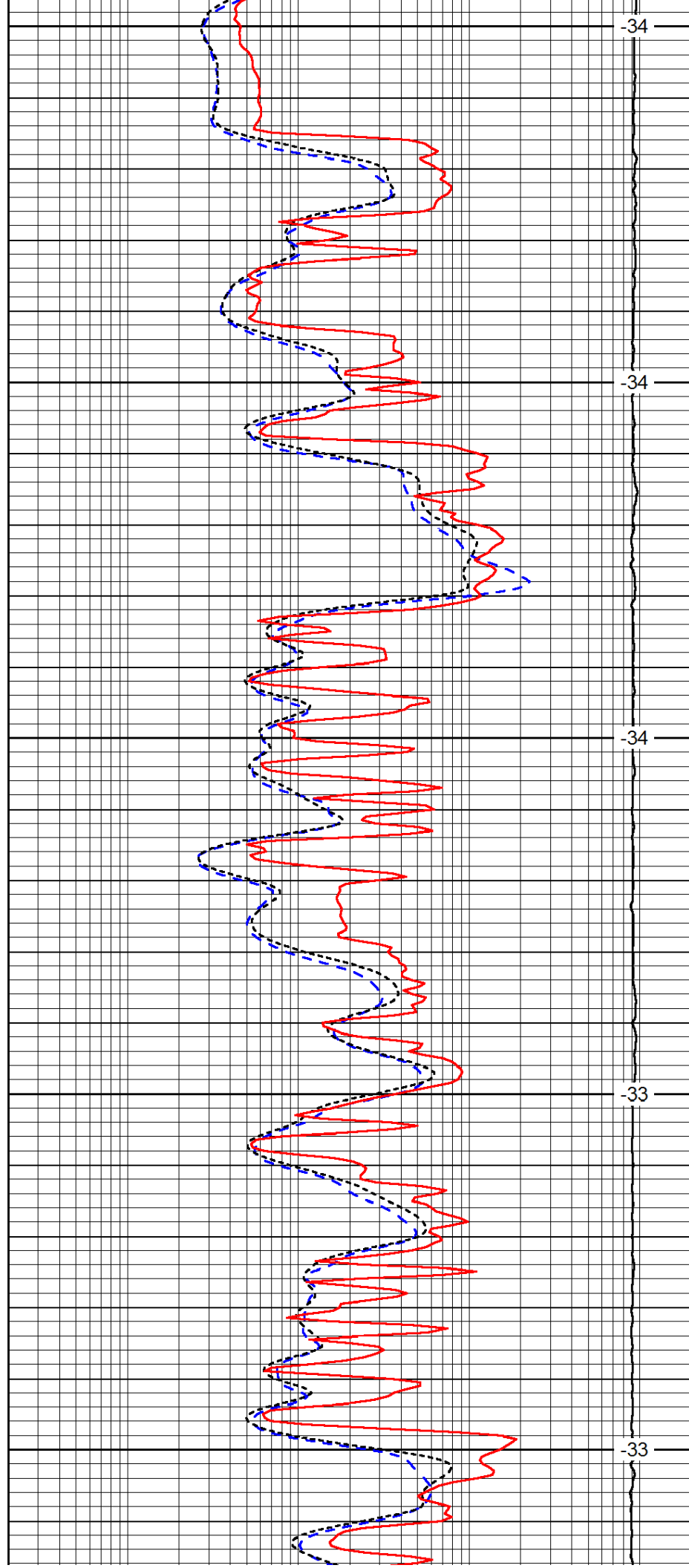
3050

3100

3150

3200

3250



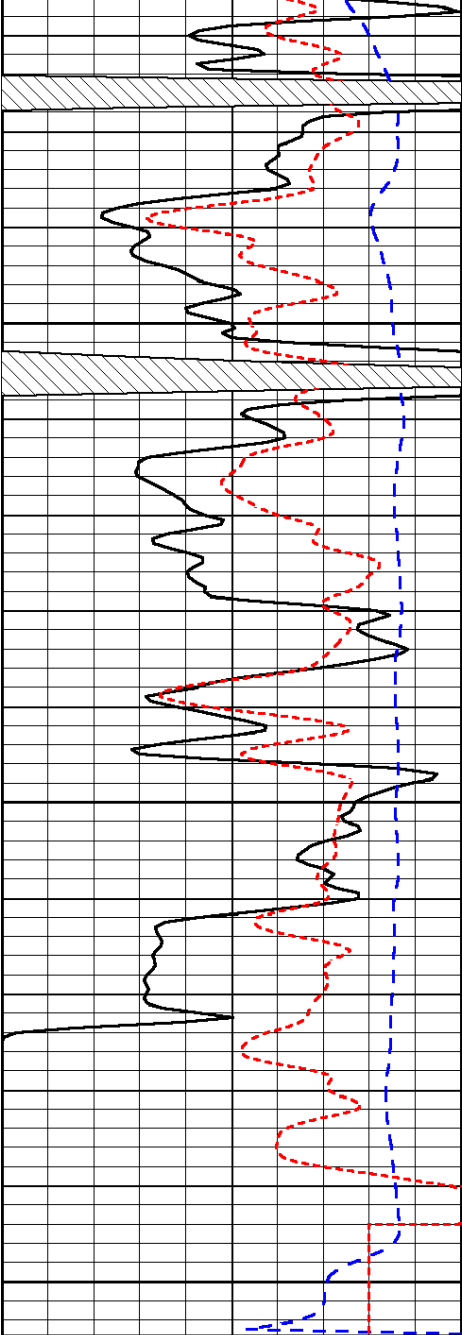
-34

-34

-34

-33

-33

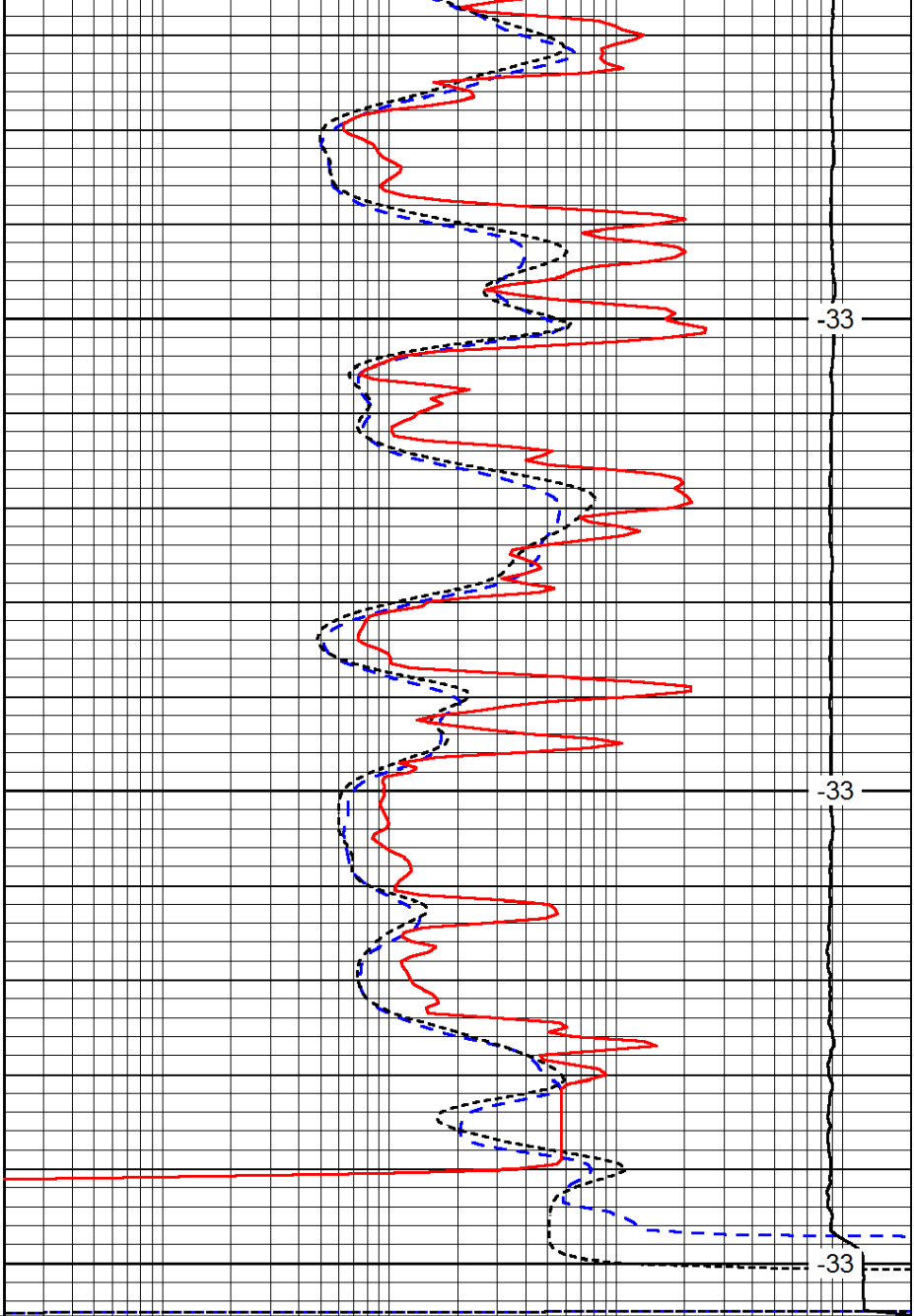


3300

3350

3400

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



-33

-33

-33

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

LSPD