



Pioneer Energy Services

Dual Induction Log

15-163-24123-00-00

API No.

Company **Great Plains Energy, Inc.**

Well **Odle #1-8**

Field **Wildcat**

County **Rooks** State

Kansas

Location **480' FSL & 1650' FWL**

Other Services
CNL/CDL
MEL/BHCS

Sec: **8** Twp: **7S** Rge: **18W**

Permanent Datum **Ground Level** Elevation **1936**

Log Measured From **Kelly Bushing** **8** Ft. Above Perm. Datum

Elevation
K.B. 1944
D.F.
G.L. 1936

Drilling Measured From **Kelly Bushing**

Date **6/14/2013**

Run Number **One**

Depth Driller **3509**

Depth Logger **3507**

Bottom Logged Interval **3506**

Top Log Interval **200**

Casing Driller **8.625 @ 220**

Casing Logger **224**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **2000**

Density / Viscosity **9.2 49**

pH / Fluid Loss **10.5 7.2**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.32 @ 84**

Rmf @ Meas. Temp **0.24 @ 84**

Rmc @ Meas. Temp **0.43 @ 84**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.24 @ 113**

Operating Rig Time **4 1/2 Hours**

Max Rec. Temp. F **113**

Equipment Number **91**

Location **Hays**

Recorded By **D. Schmidt**

Witnessed By **Mike Madcharo**

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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.pioneerenergy.com
 785 625 3858
 Stockton,
 4 3/4 West to 14 Rd, 2 North,
 North and East into

Database File: c:\warrior\data\great plains_odle #1-8\great plains_061413hd.db
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 Presentation Format: dil2in
 Dataset Creation: Fri Jun 14 15:58:25 2013
 Charted by: Depth in Feet scaled 1:600

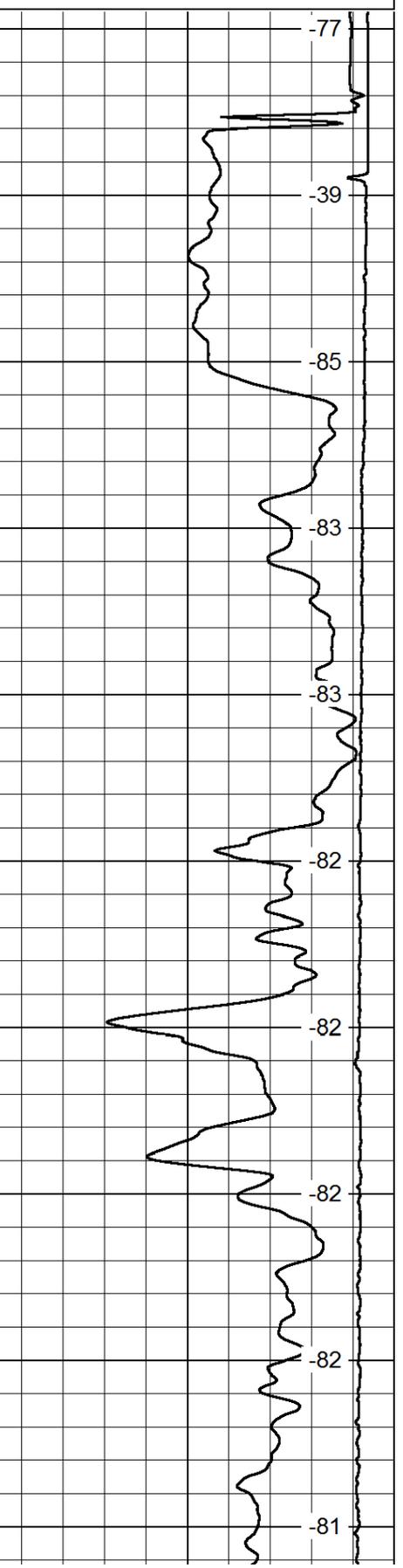
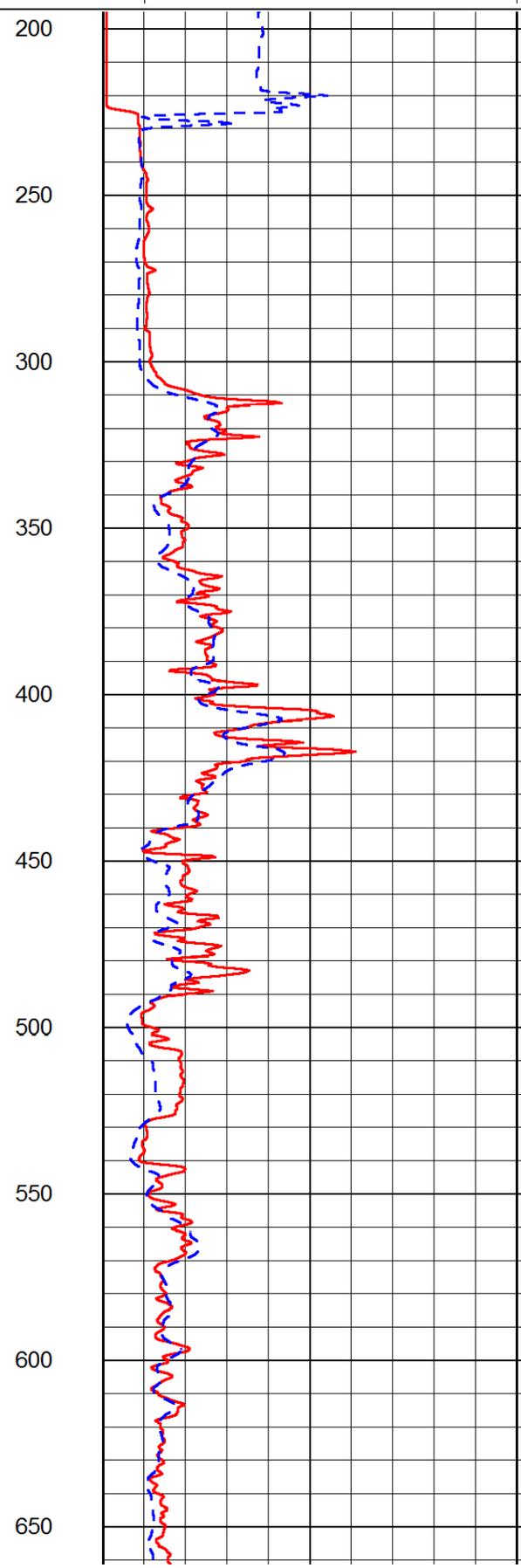
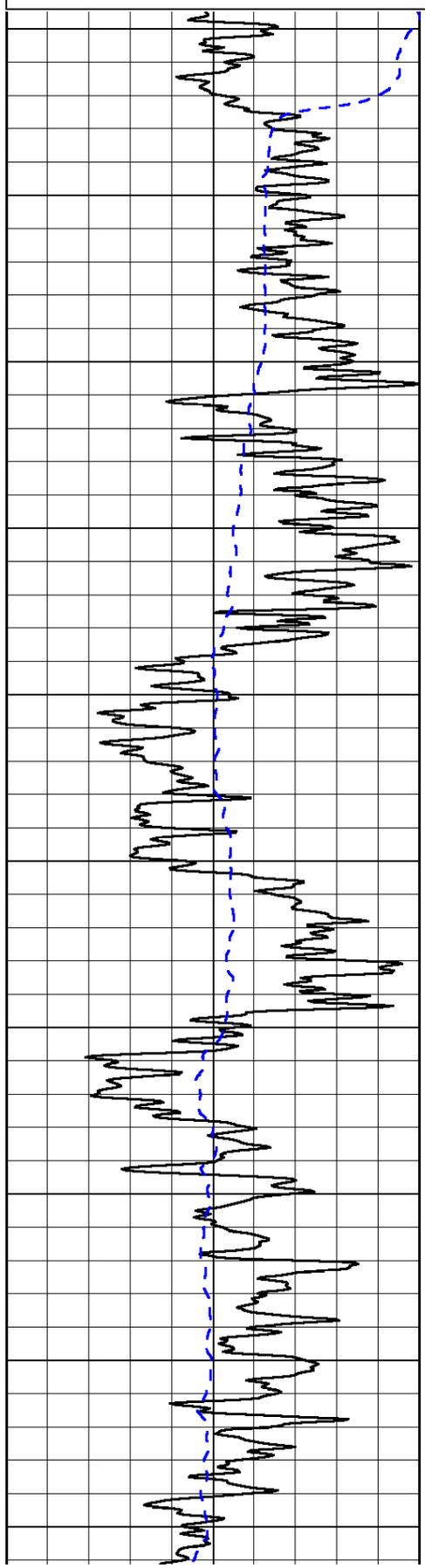
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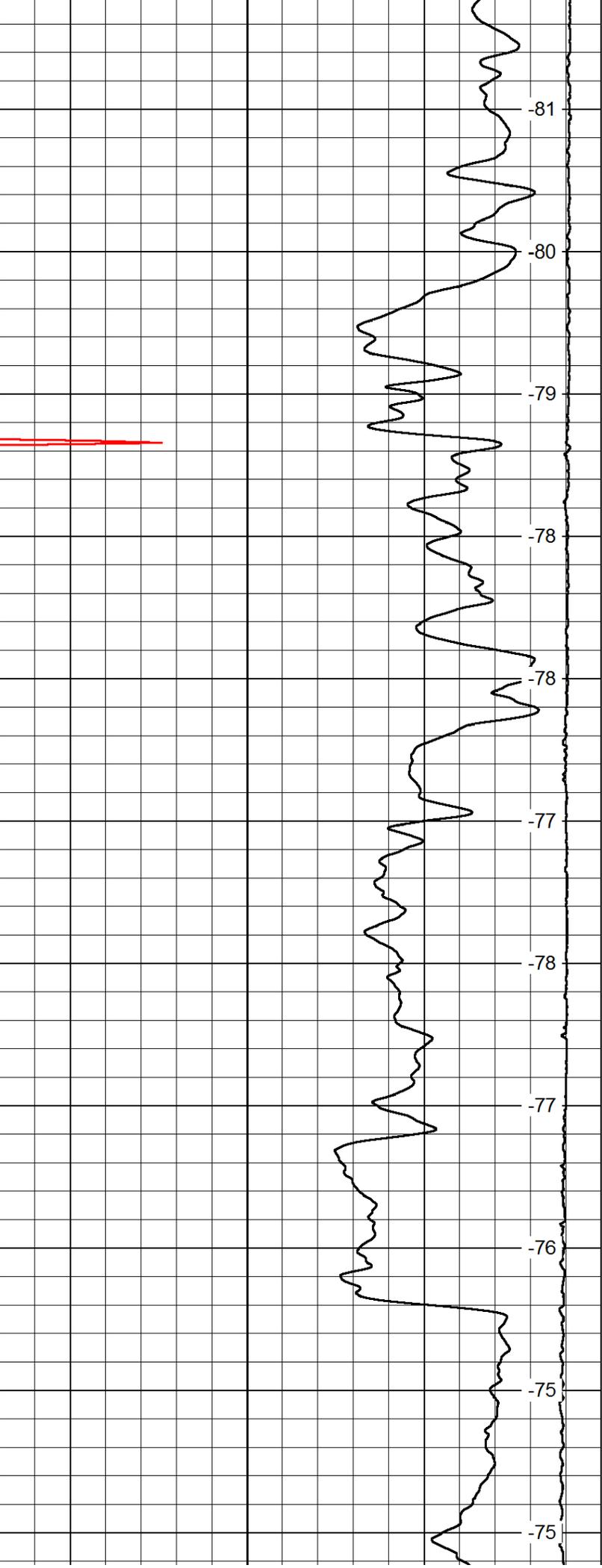
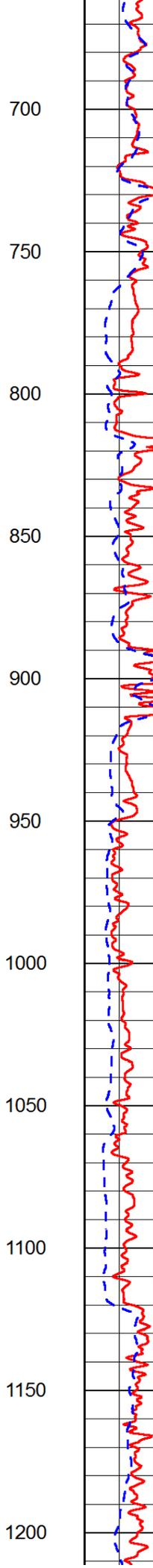
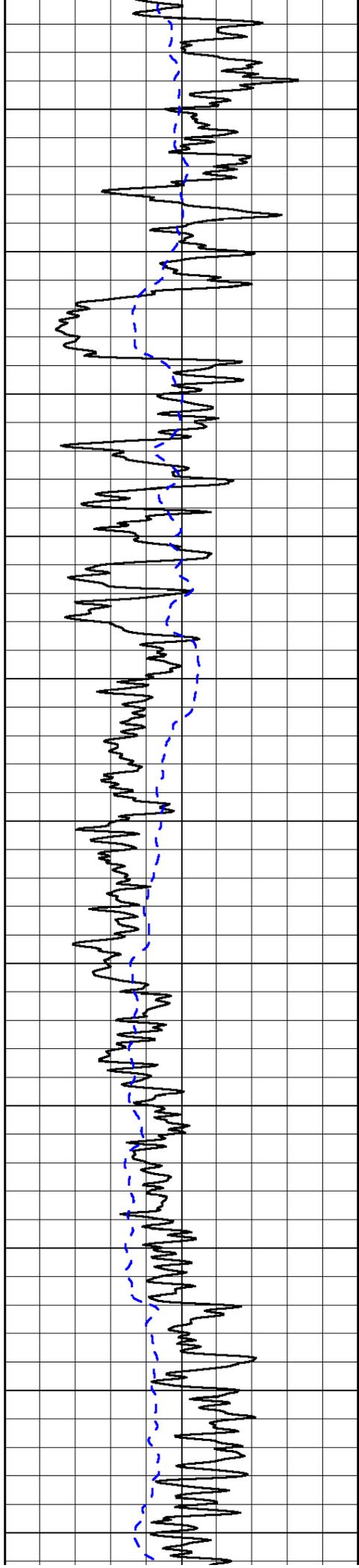
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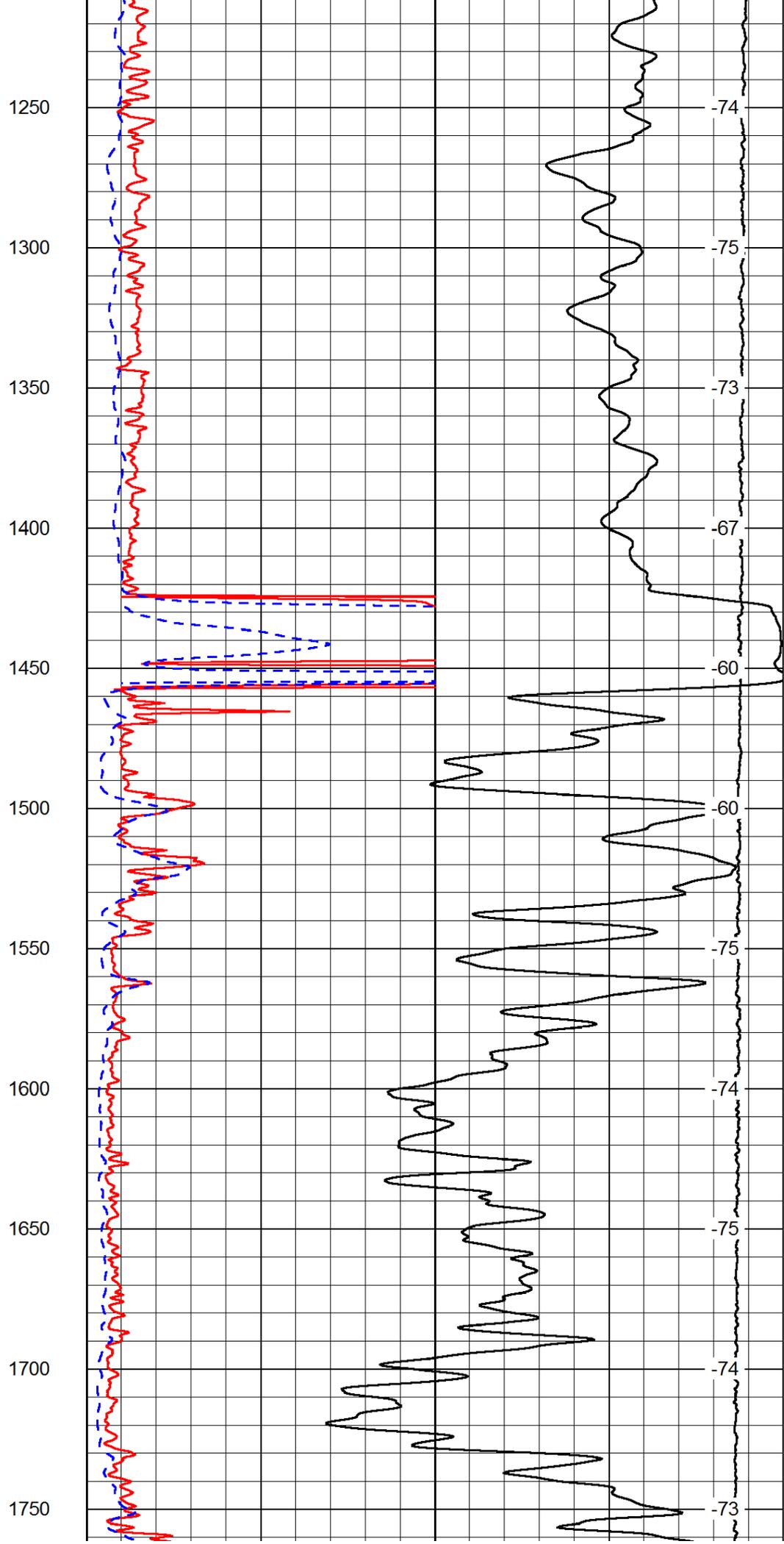
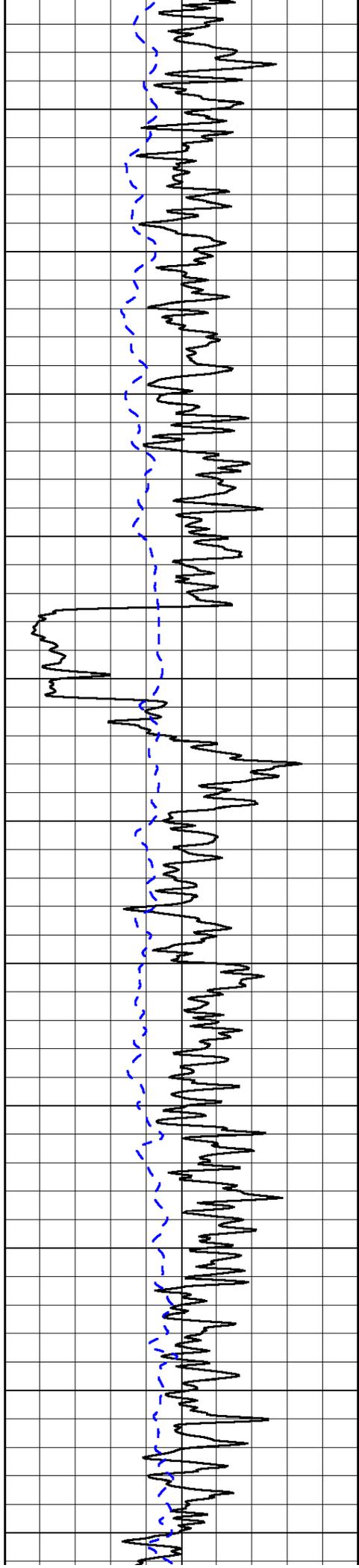
LSPD

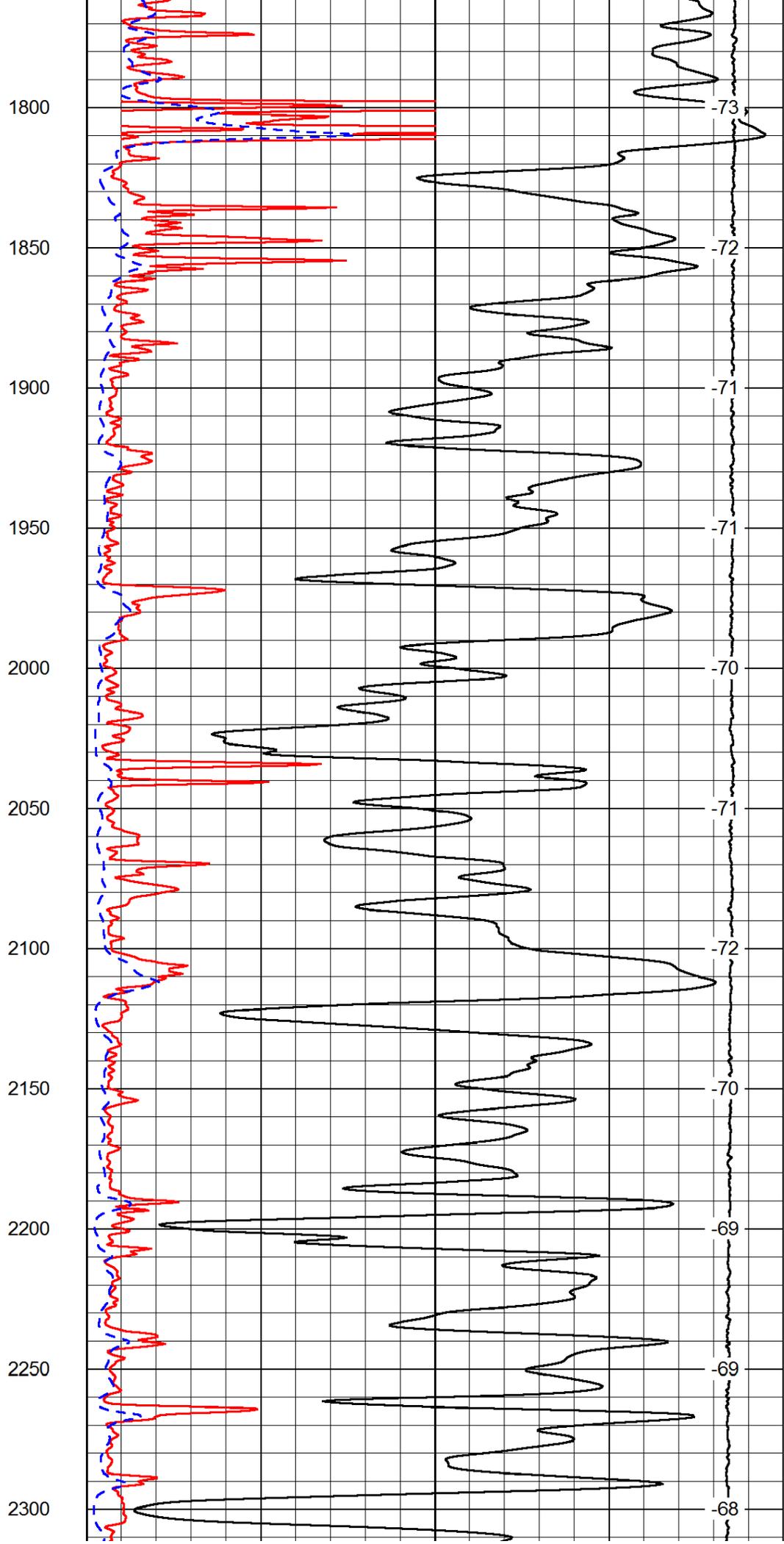
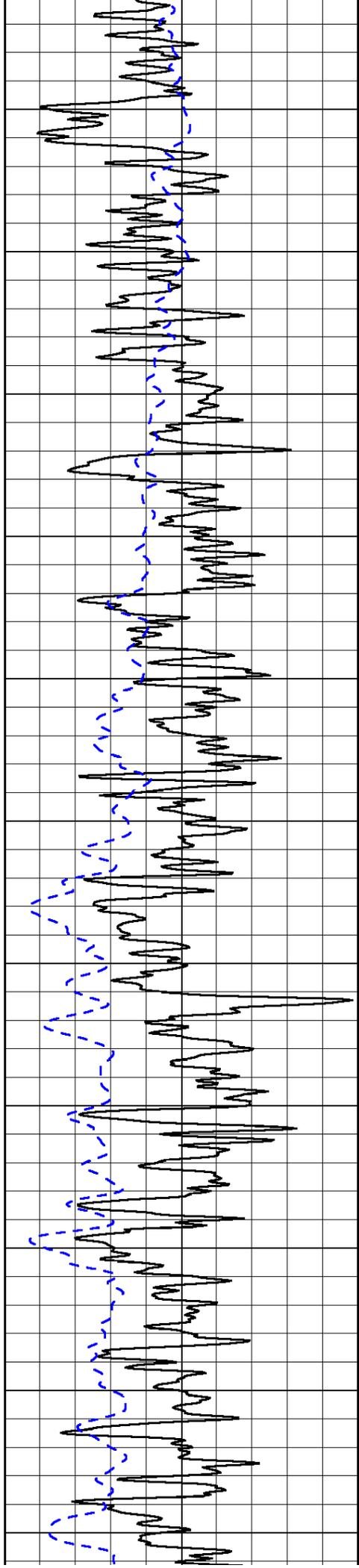
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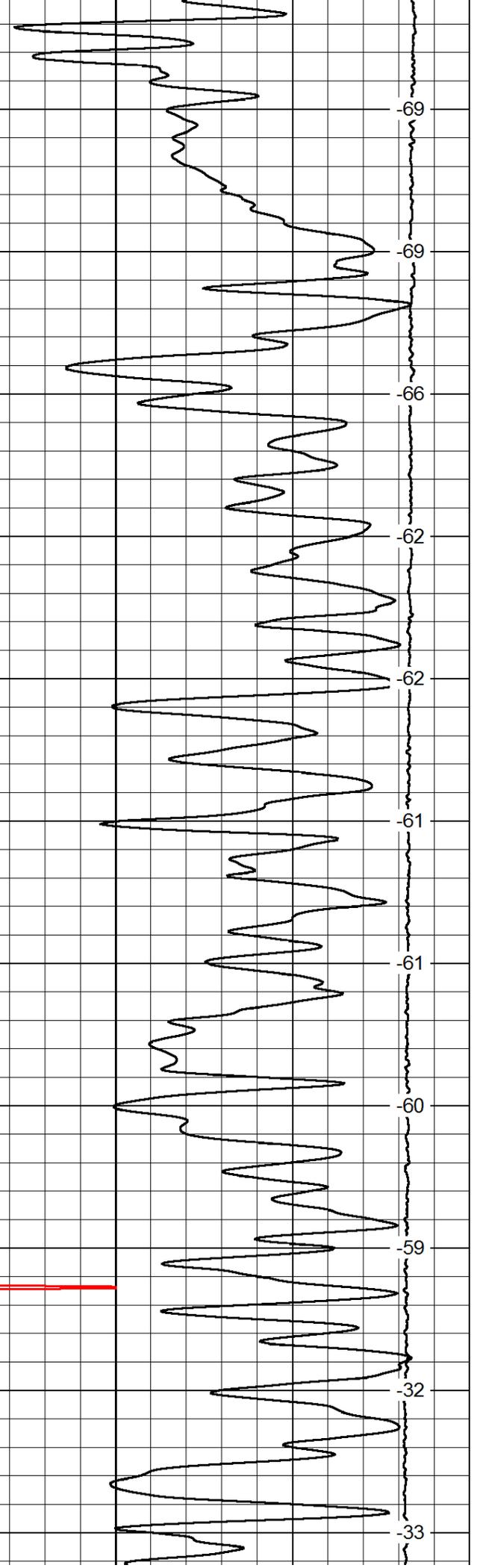
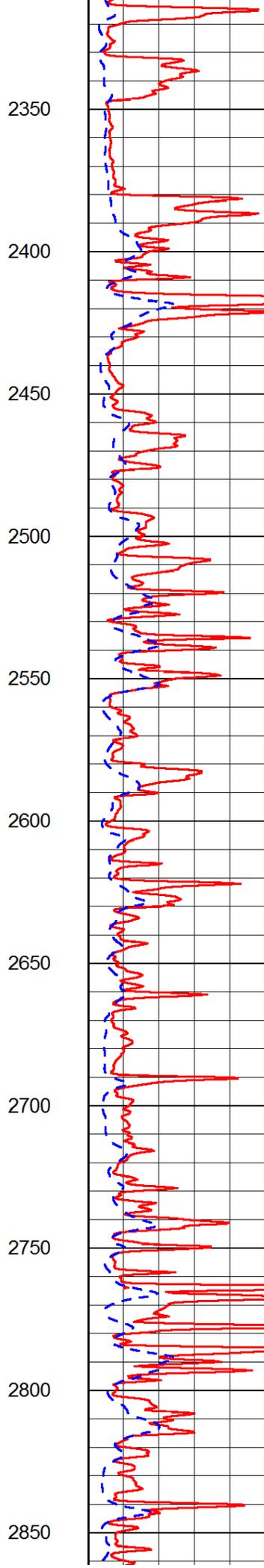
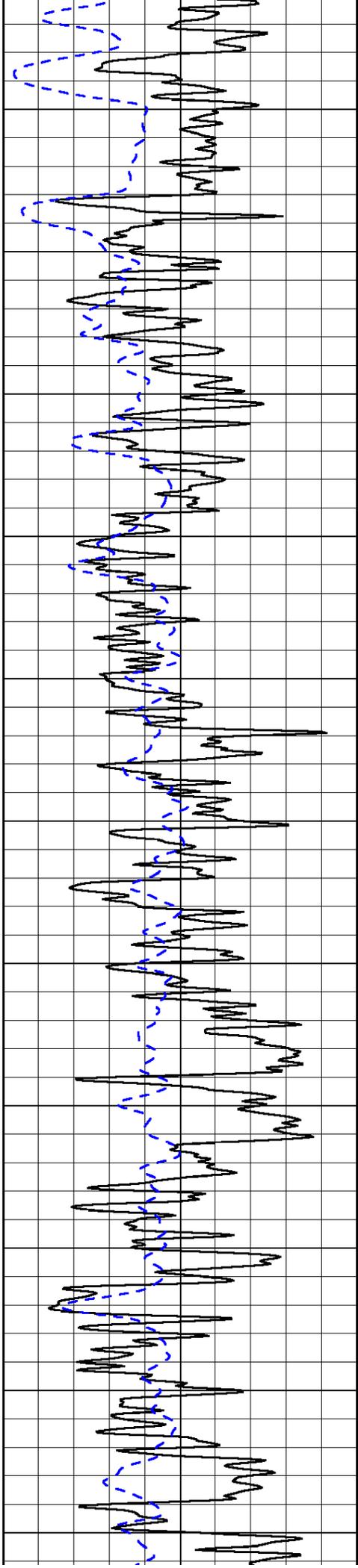
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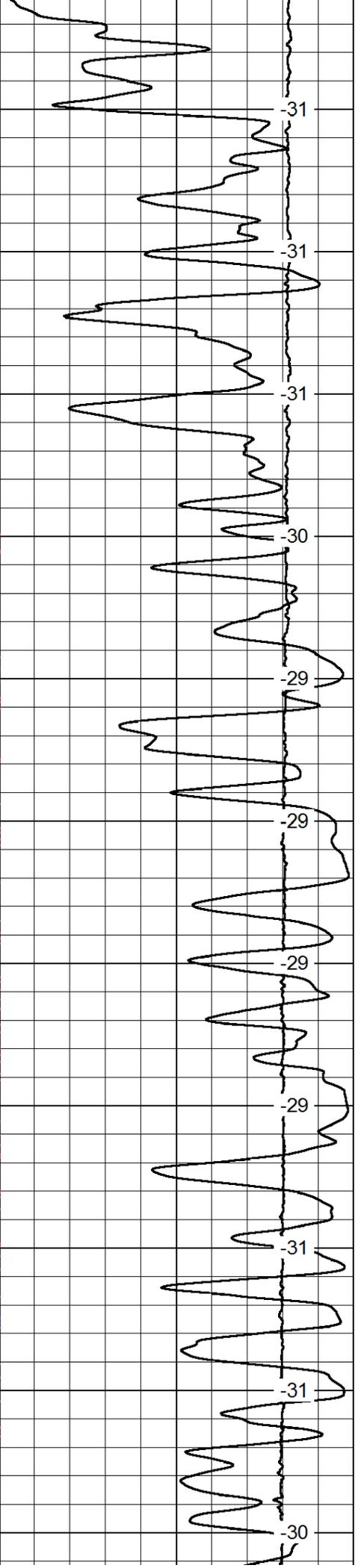
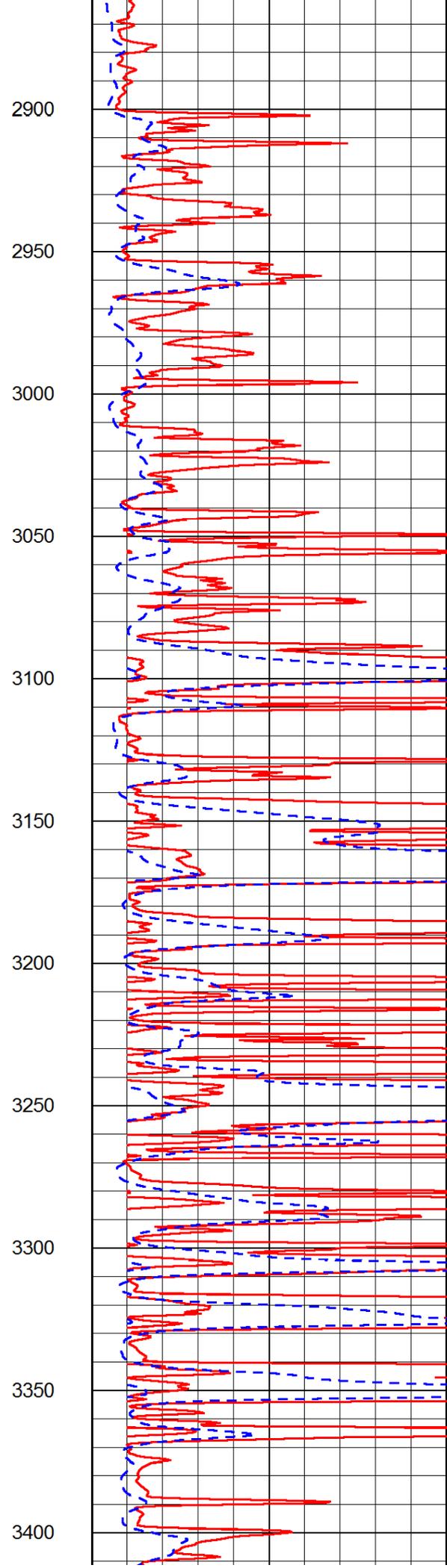
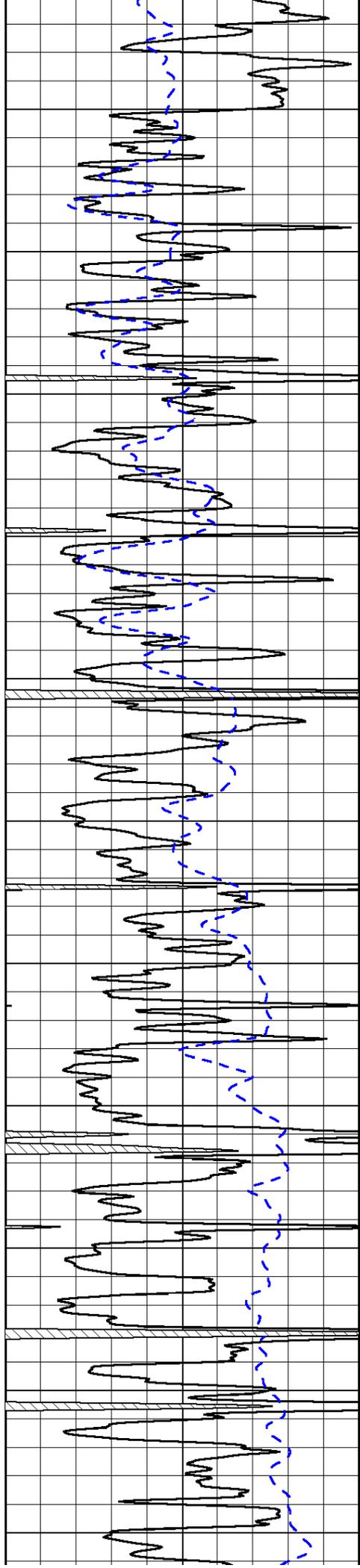


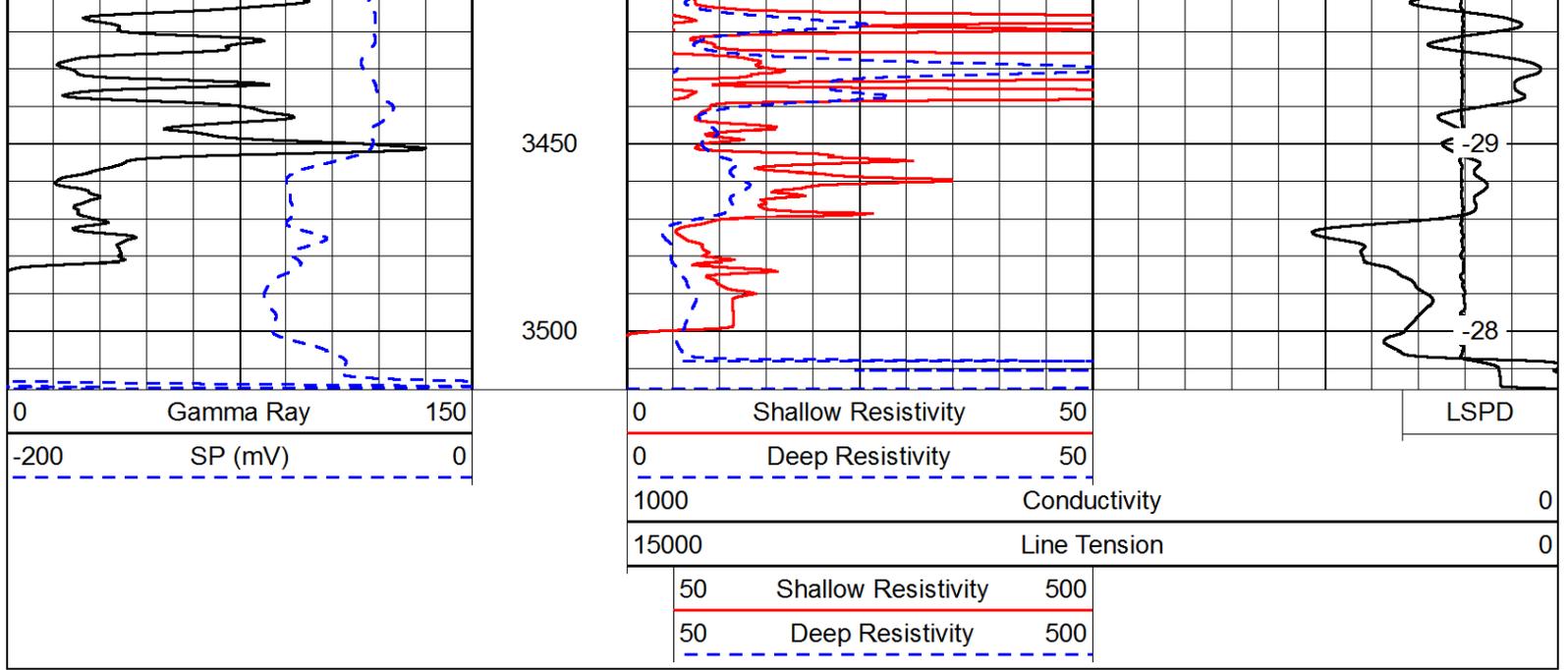




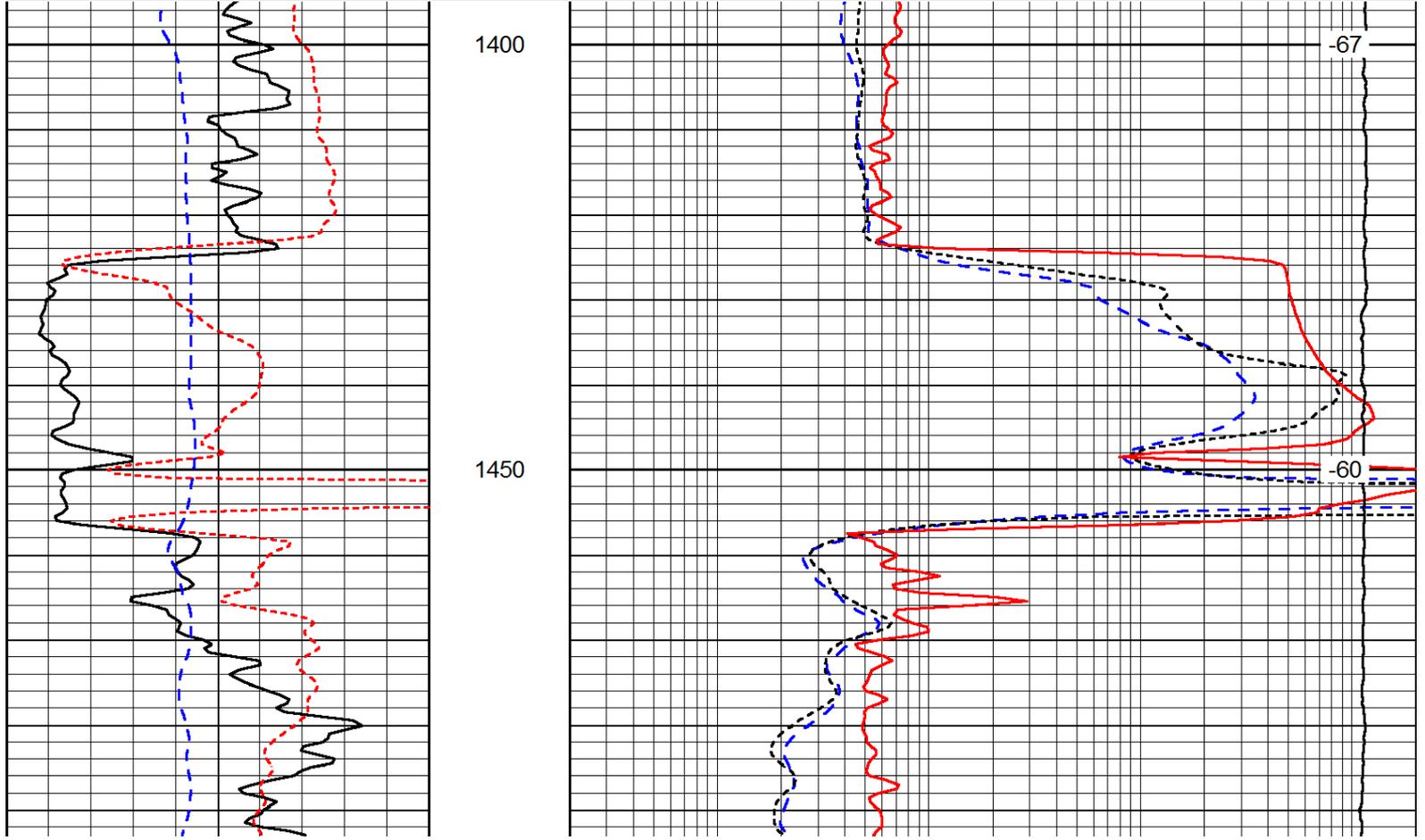
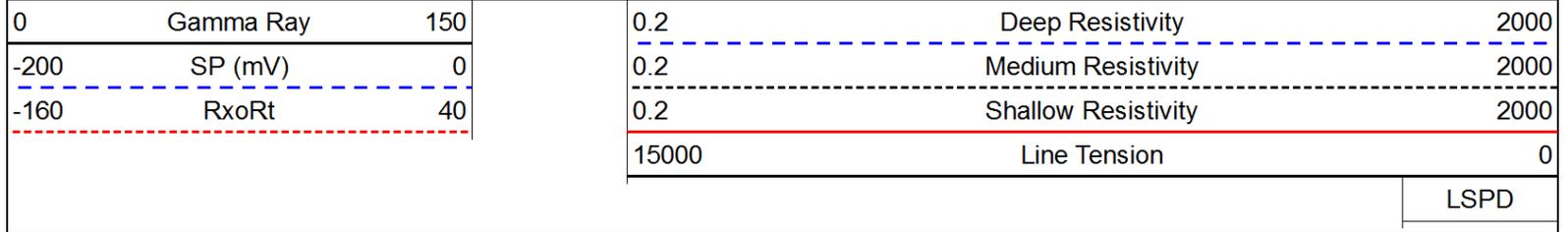


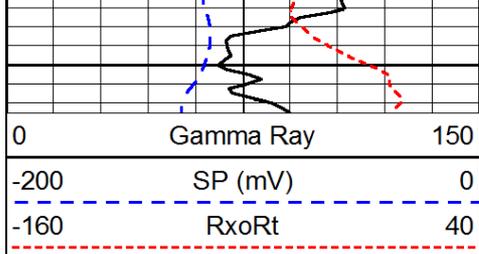






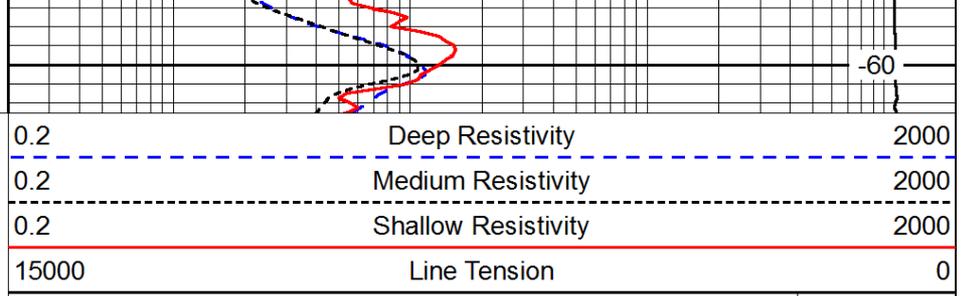
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 Presentation Format: dil
 Dataset Creation: Fri Jun 14 15:58:25 2013
 Charted by: Depth in Feet scaled 1:240





1500

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

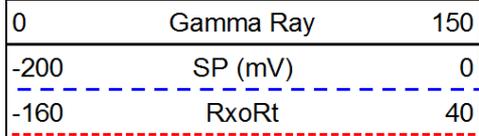


-60

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

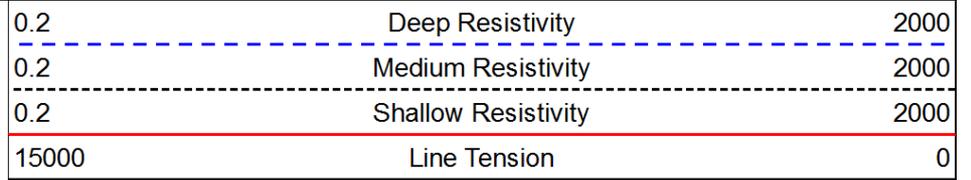
LSPD

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2800

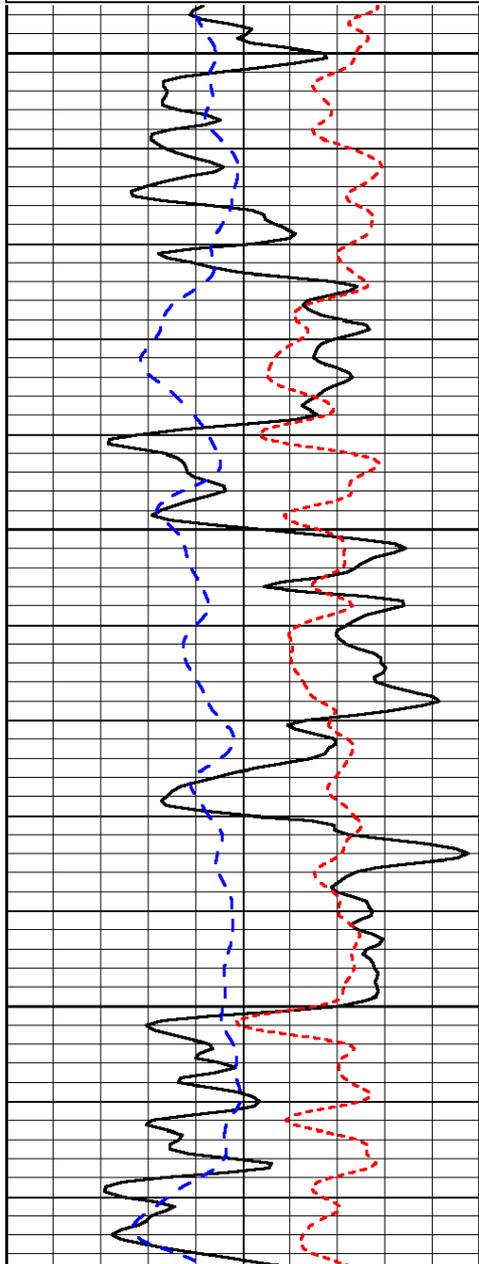
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-200	SP (mV)	0
-160	RxoRt	40



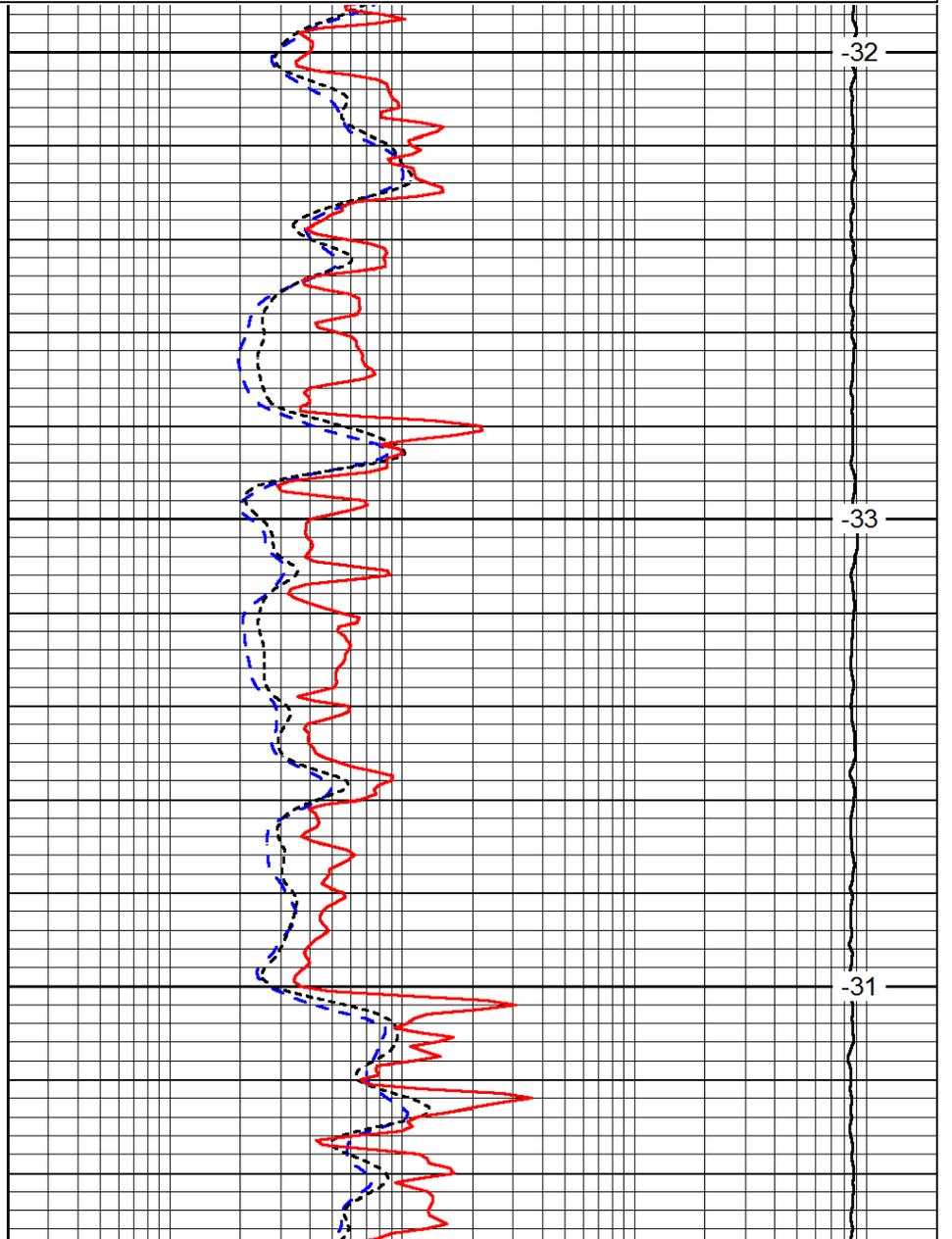
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



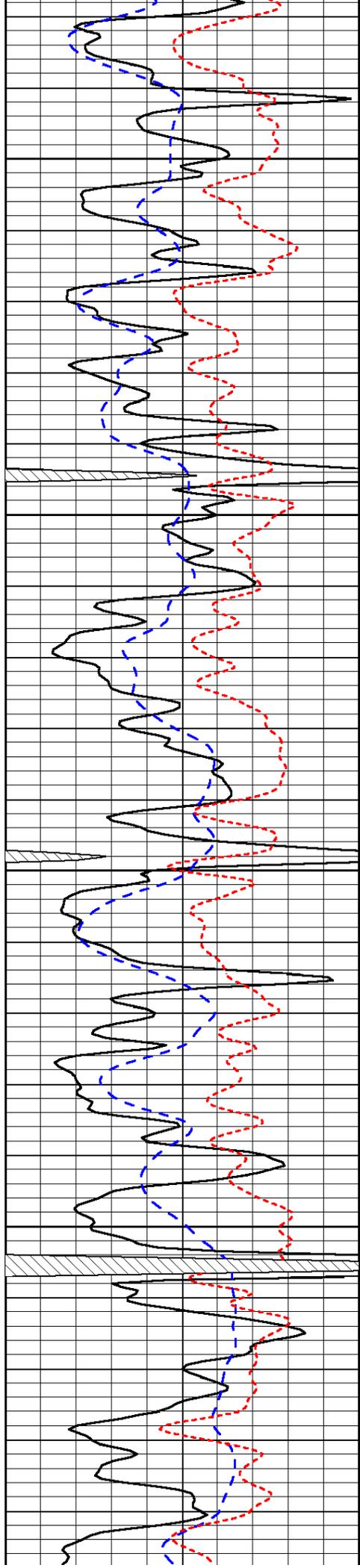
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-33

2900

-31

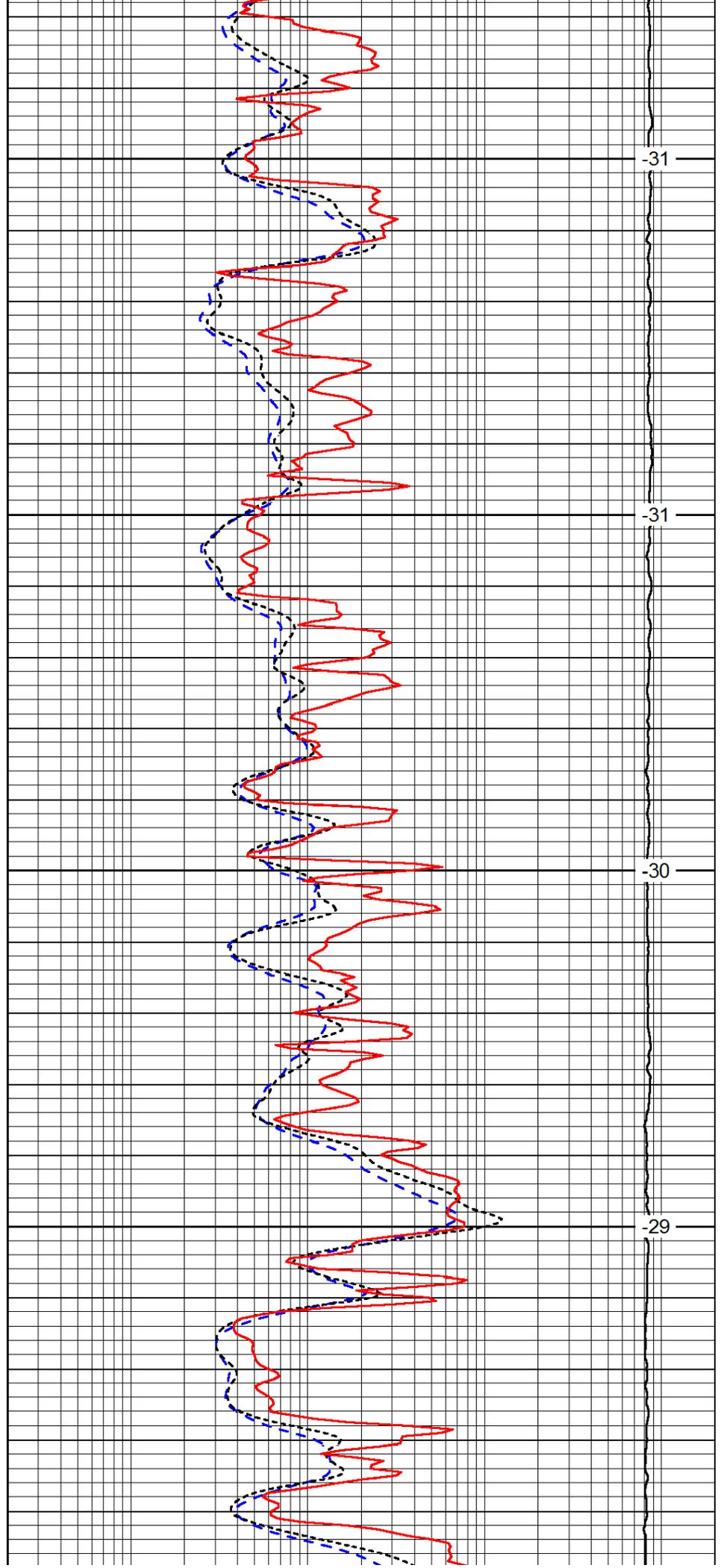


2950

3000

3050

3100

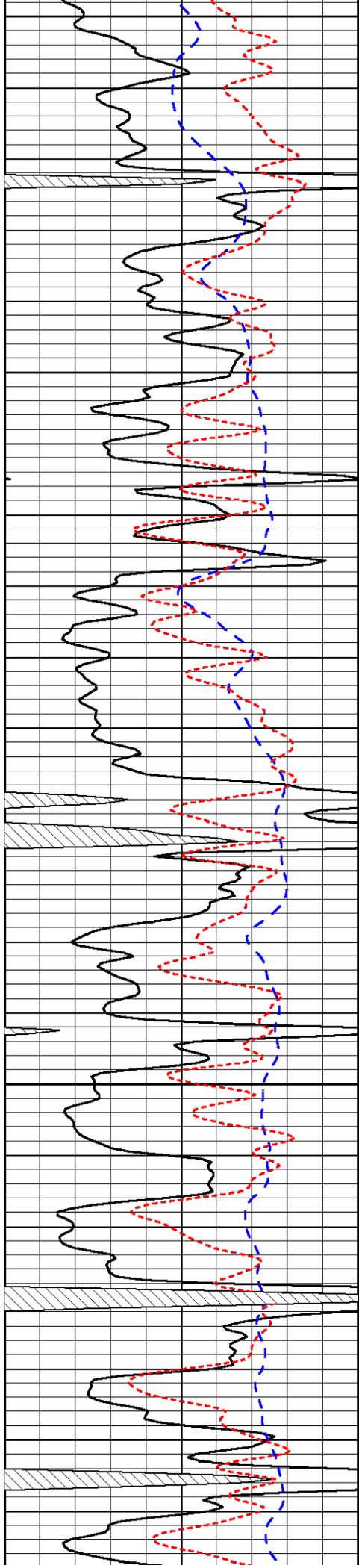


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-31

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-29



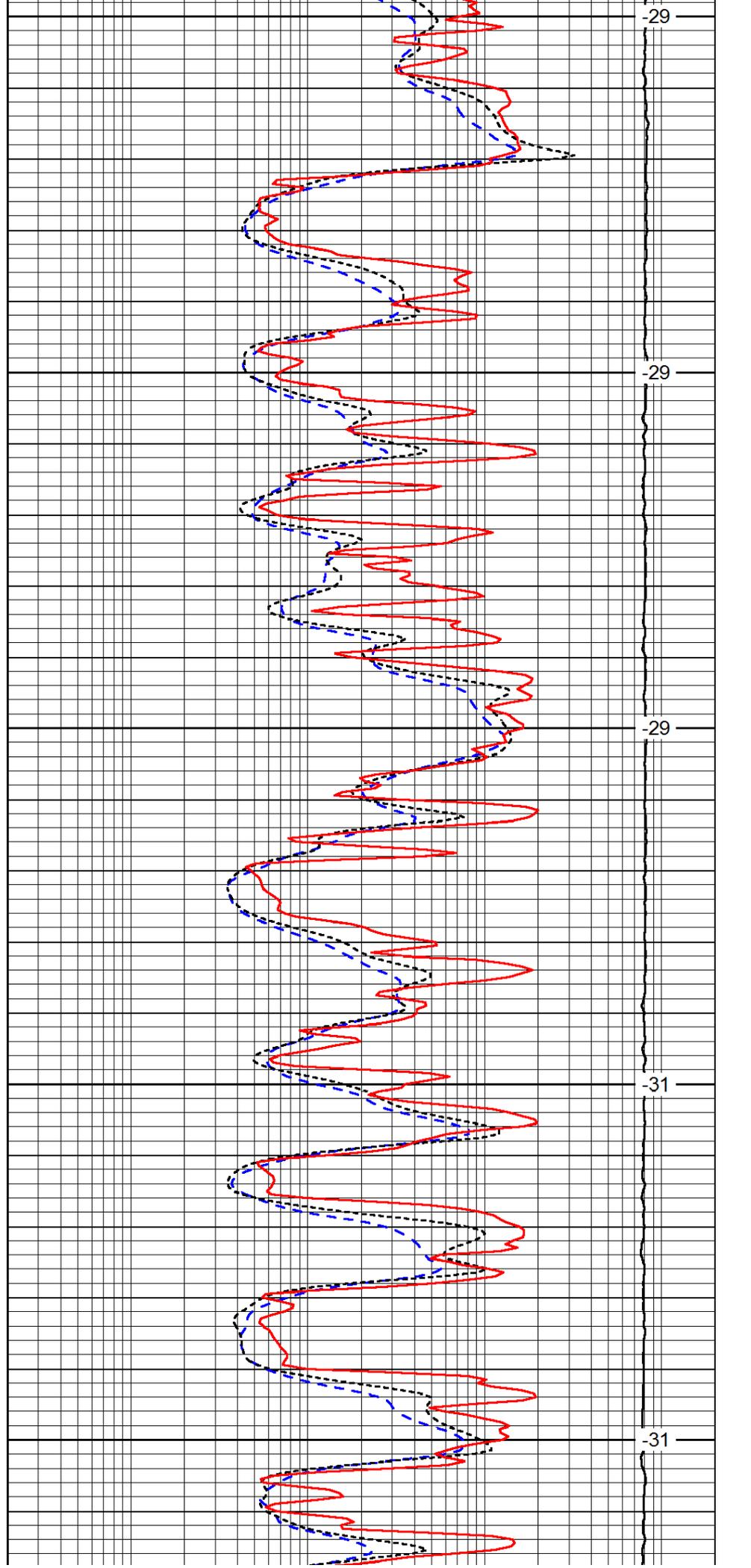
3150

3200

3250

3300

3350



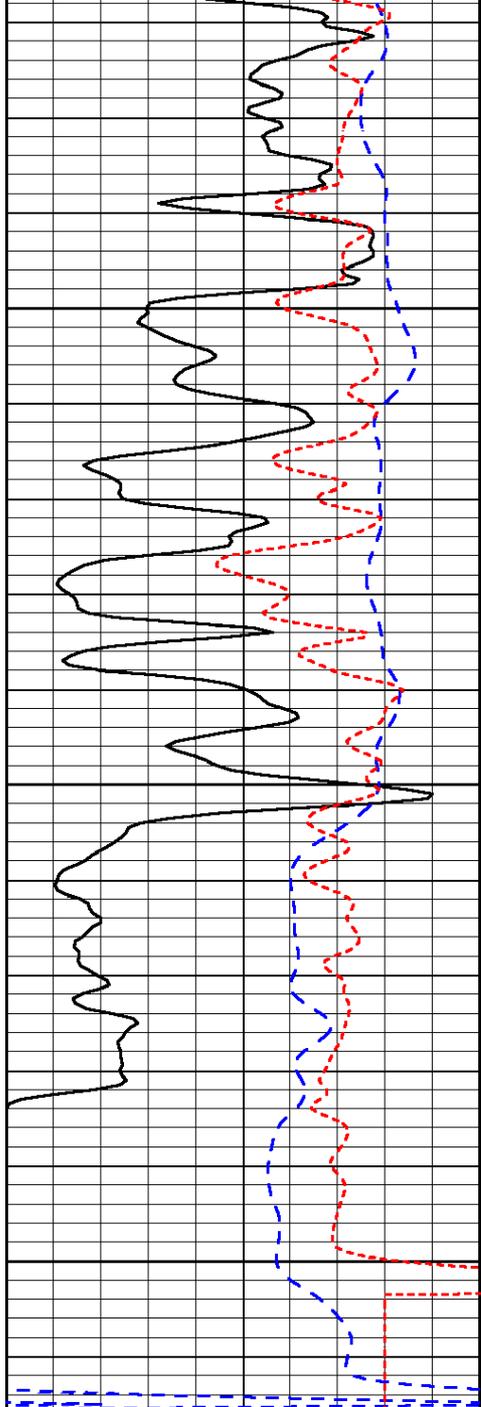
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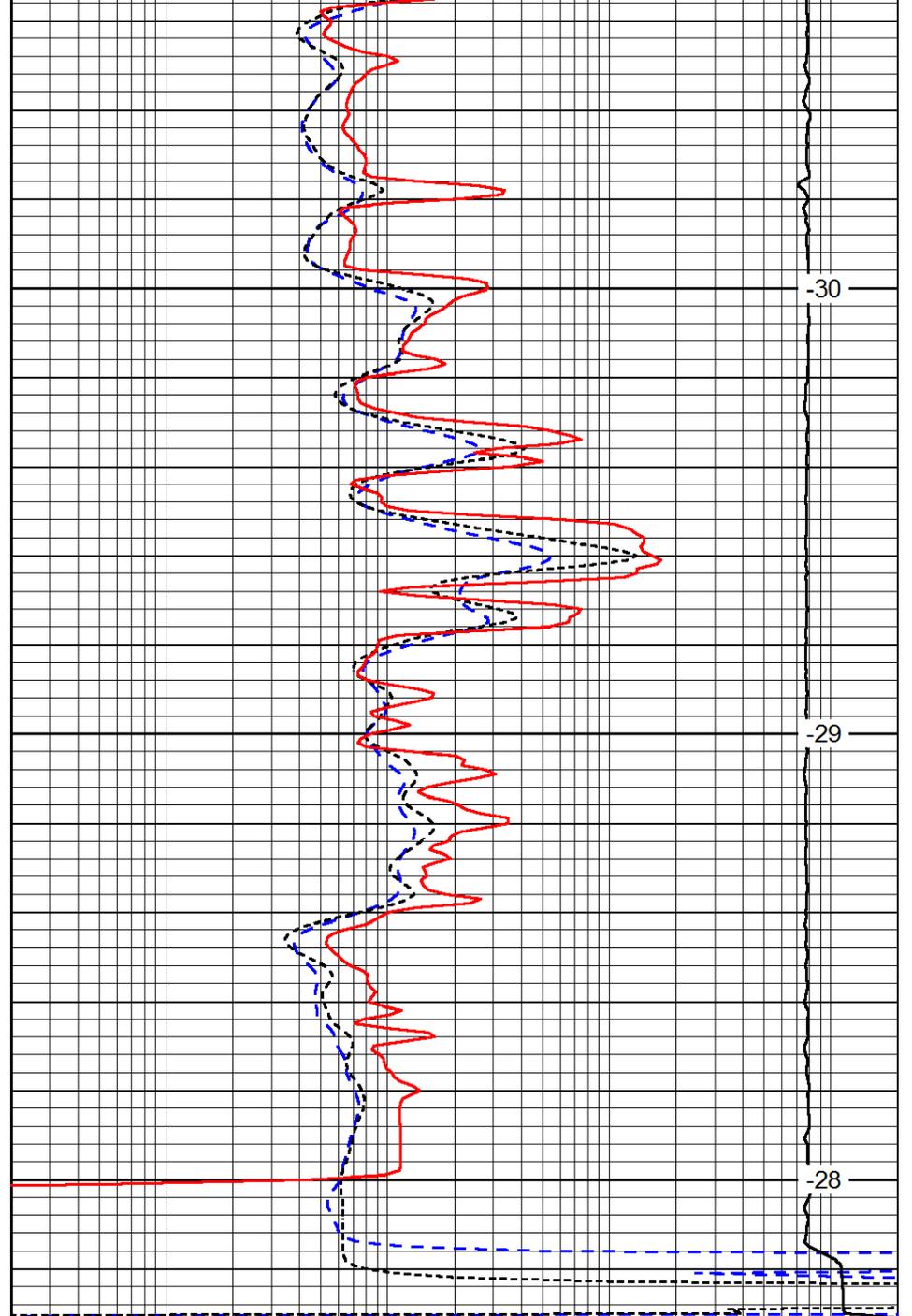


0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

3400

3450

3500



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

-30

-29

-28

LSPD