



Dual Induction Log

Pioneer Energy Services

API No.

15-065-24081-00-00

Company H&C Oil Operating, Inc.

Well Griffith Unit #3-1

Field Wildcat

County Graham

State

Kansas

Location

2560' FNL & 290' FEL

Sec: 3

Twp: 8S

Rge: 22W

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 2154
7 Ft. Above Perm. Datum

Other Services
CNL/CDL
MEL
Elevation
K.B. 2161
D.F. 2154
G.L. 2154

Date

11/13/2014

Run Number

One

Depth Driller

3803

Depth Logger

3805

Bottom Logged Interval

3804

Top Log Interval

250

Casing Driller

8.625 @ 261

Casing Logger

264

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1100

Density / Viscosity

9.3 58

pH / Fluid Loss

10.5 6.4

Source of Sample

Flowline

Rm @ Meas. Temp

2.3 @ 42

Rmf @ Meas. Temp

1.73 @ 42

Rmc @ Meas. Temp

3.11 @ 42

Source of Rmf / Rmc

Charts

Rm @ BHT

0.85 @ 114

Operating Rig Time

4 Hours

Max Rec. Temp. F

114

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Marc Downing

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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

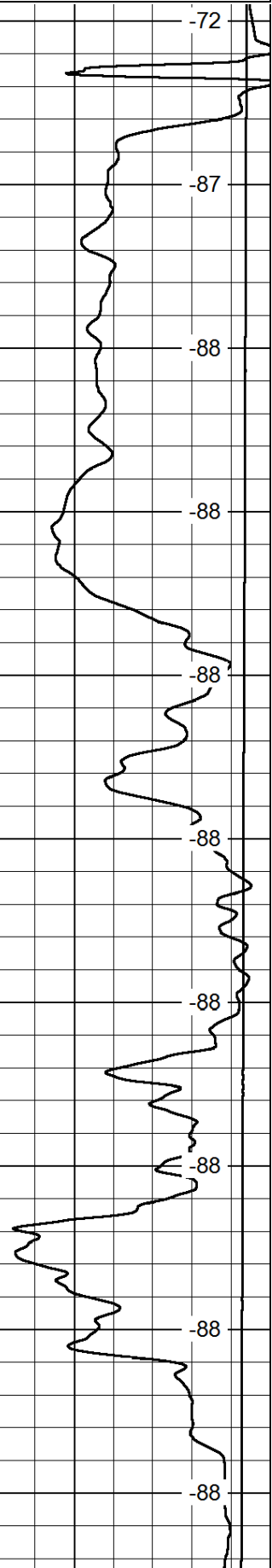
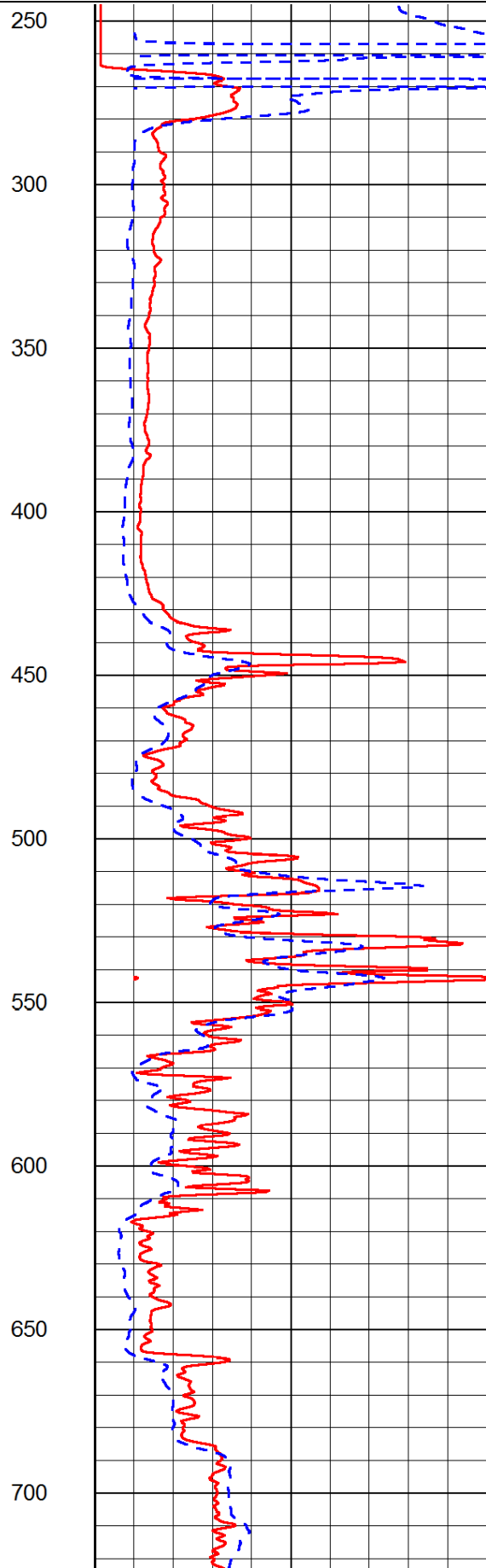
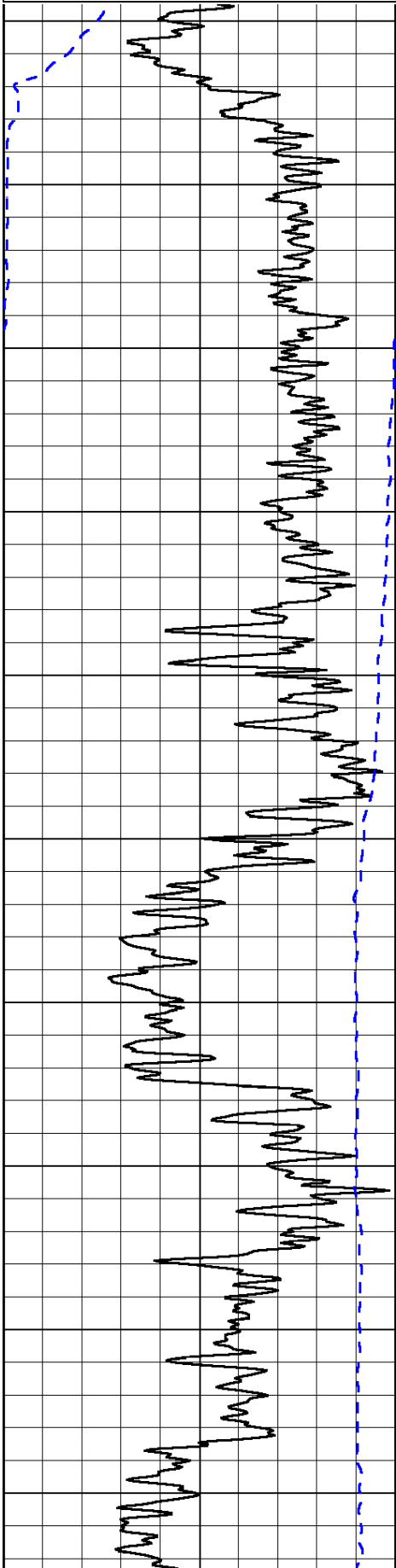
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Bogue,
North to Hwy 24, 3 West to 320 Rd,
1/2 North into

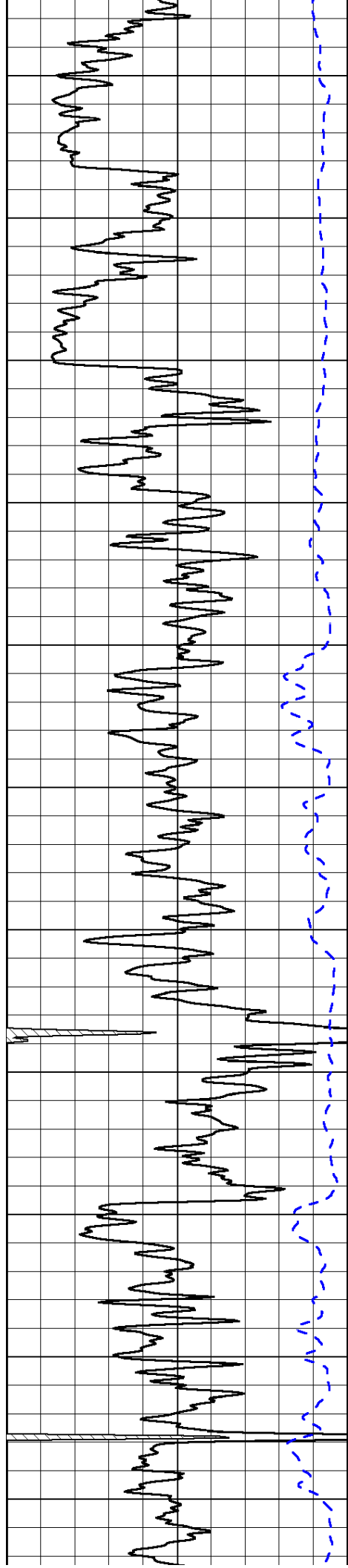
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Dataset Pathname: dil\hcstack
Presentation Format: dil2in
Dataset Creation: Thu Nov 13 13:16:04 2014
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP (mV)	0

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

LSPD





750

800

850

900

950

1000

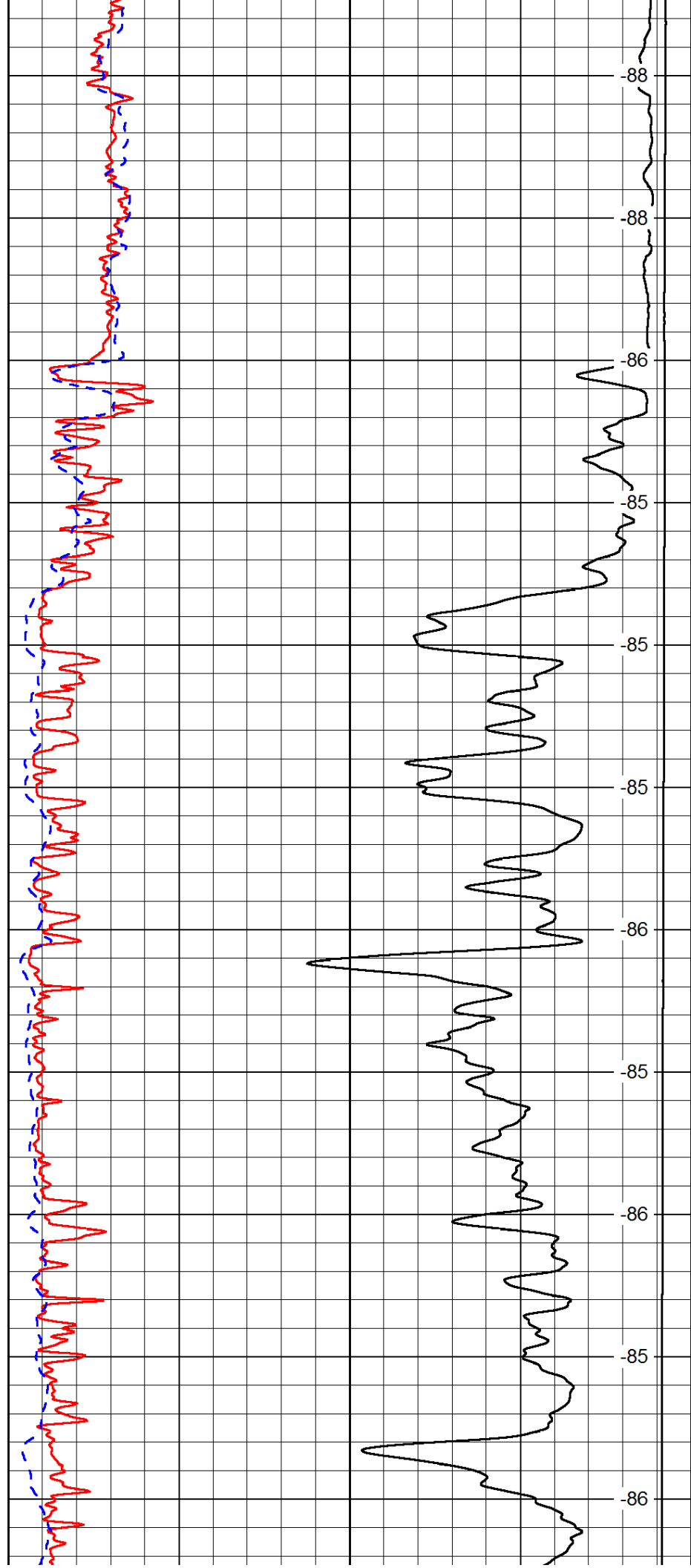
1050

1100

1150

1200

1250



-88

-88

-86

-85

-85

-85

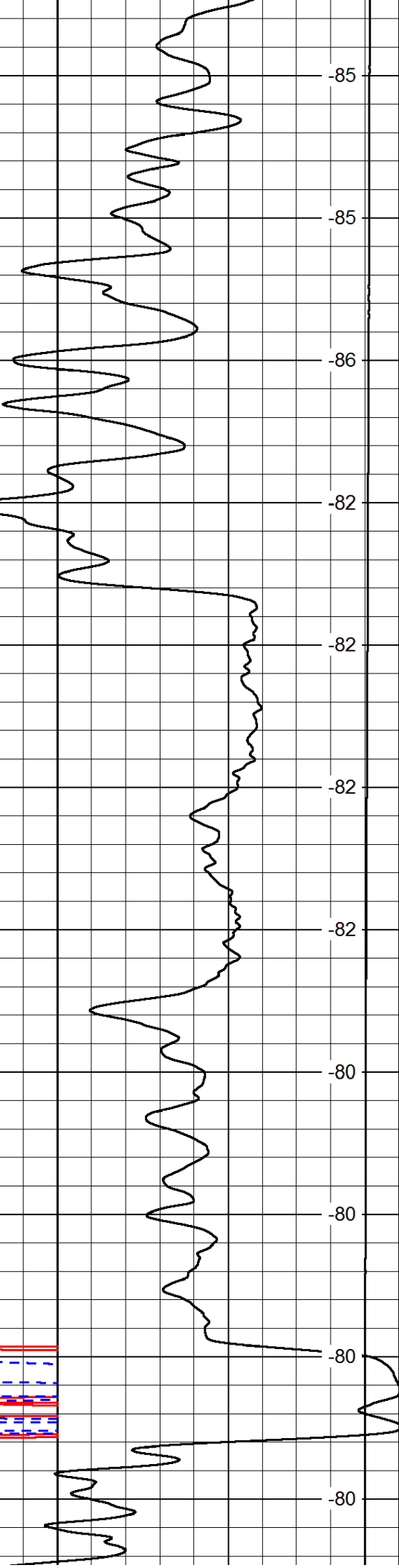
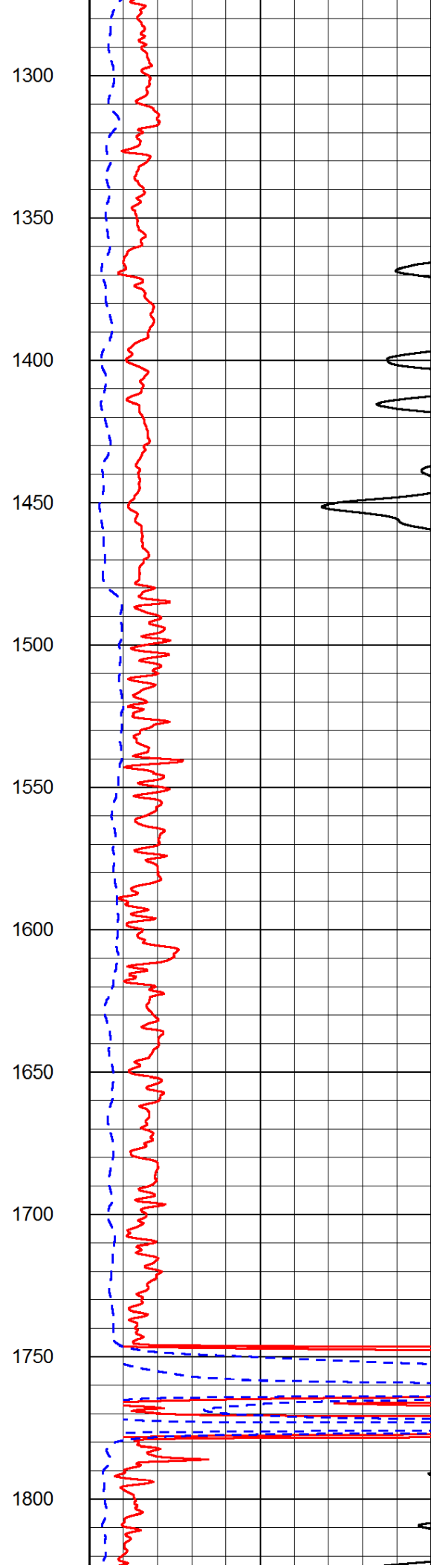
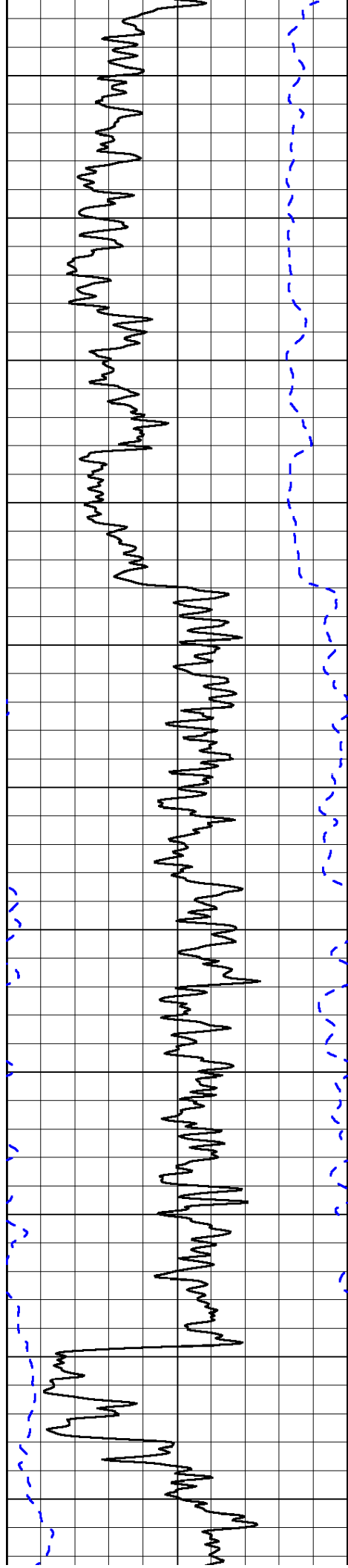
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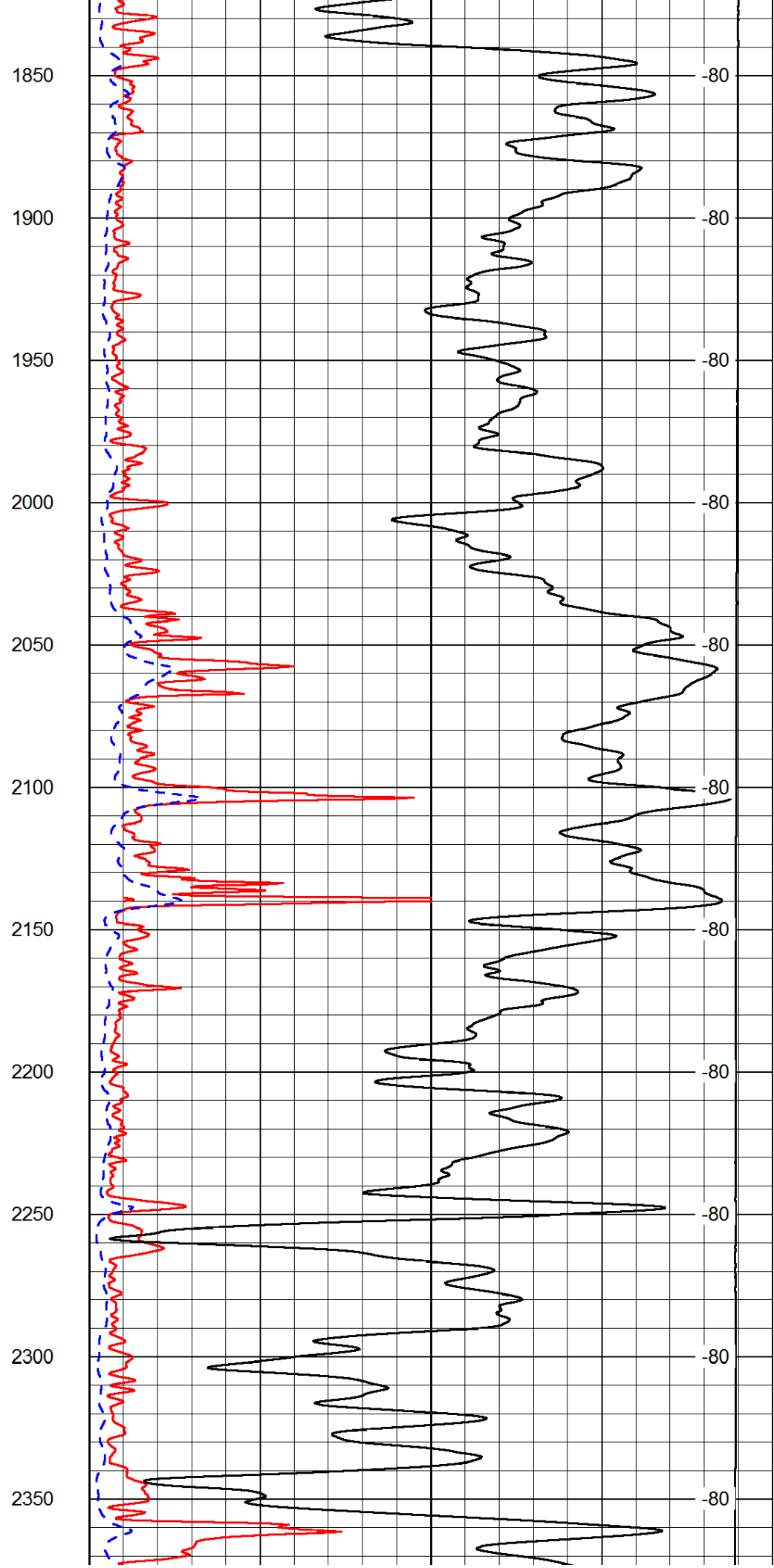
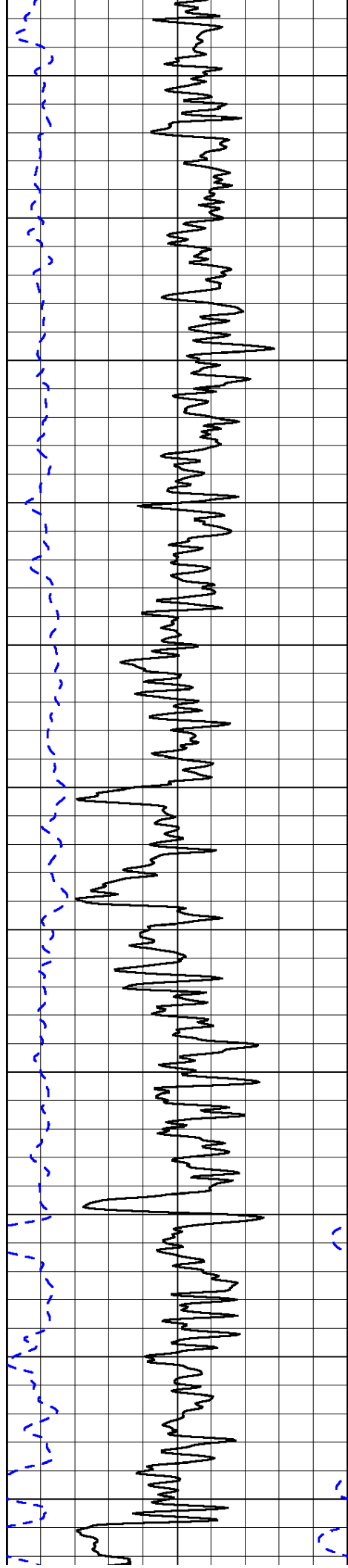
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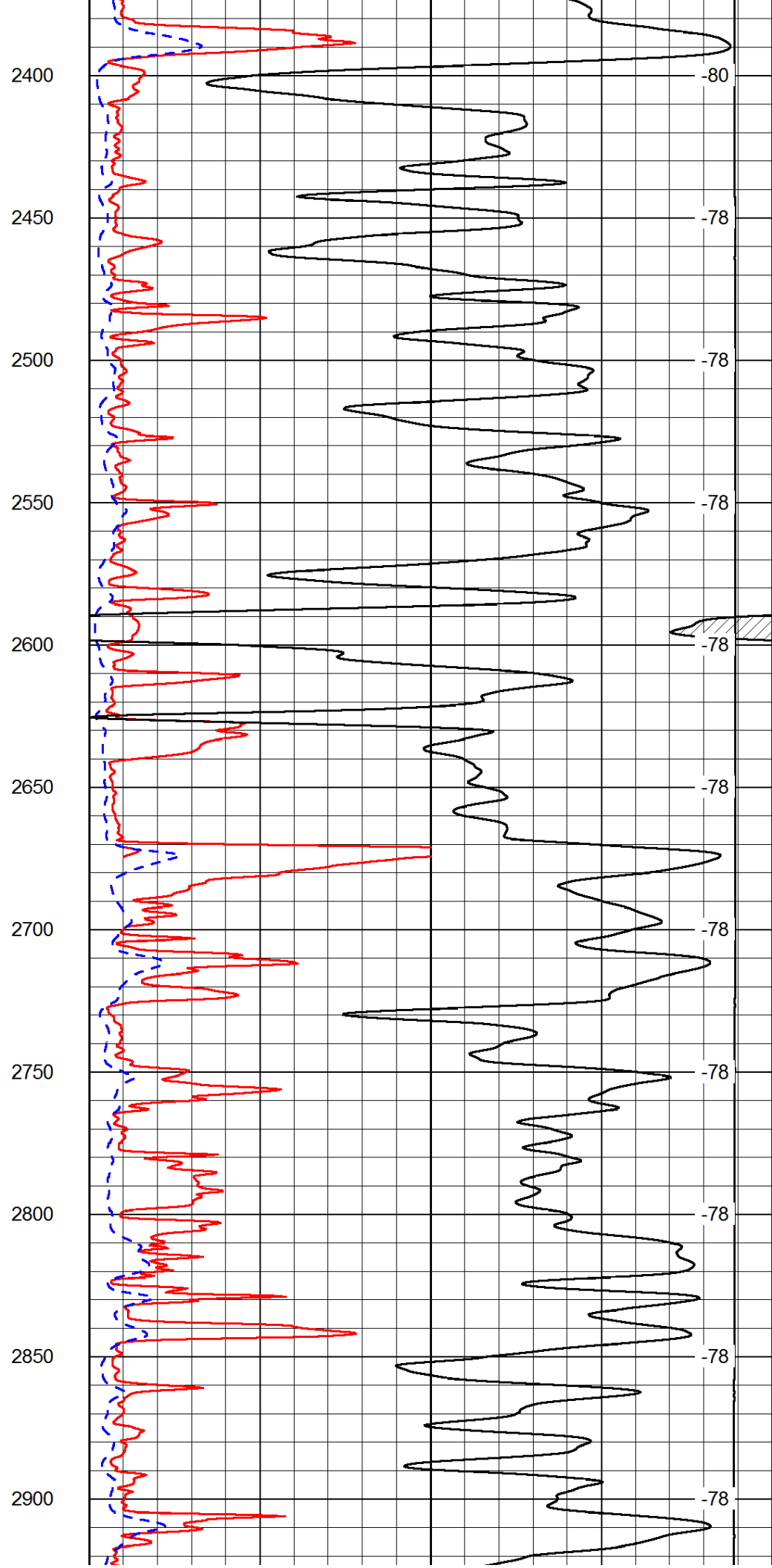
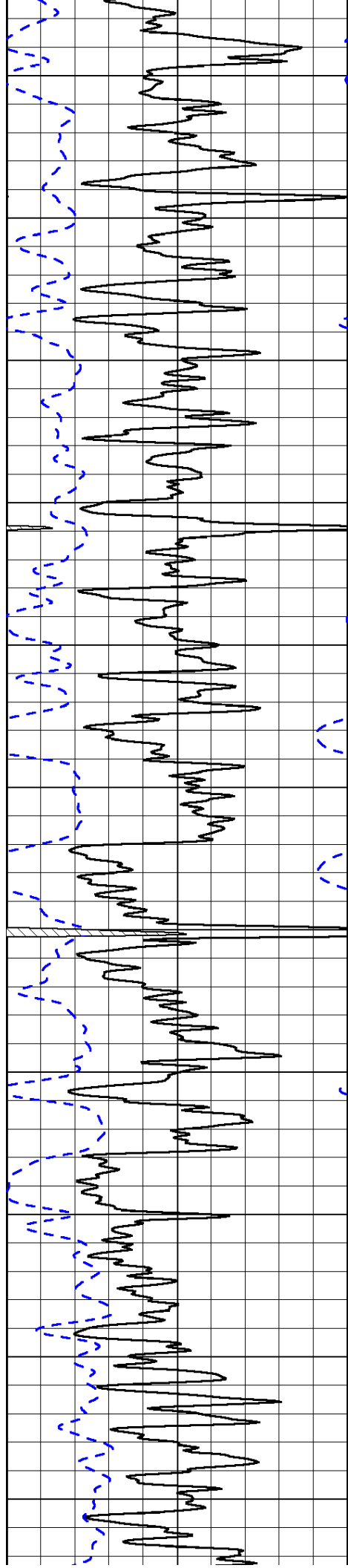
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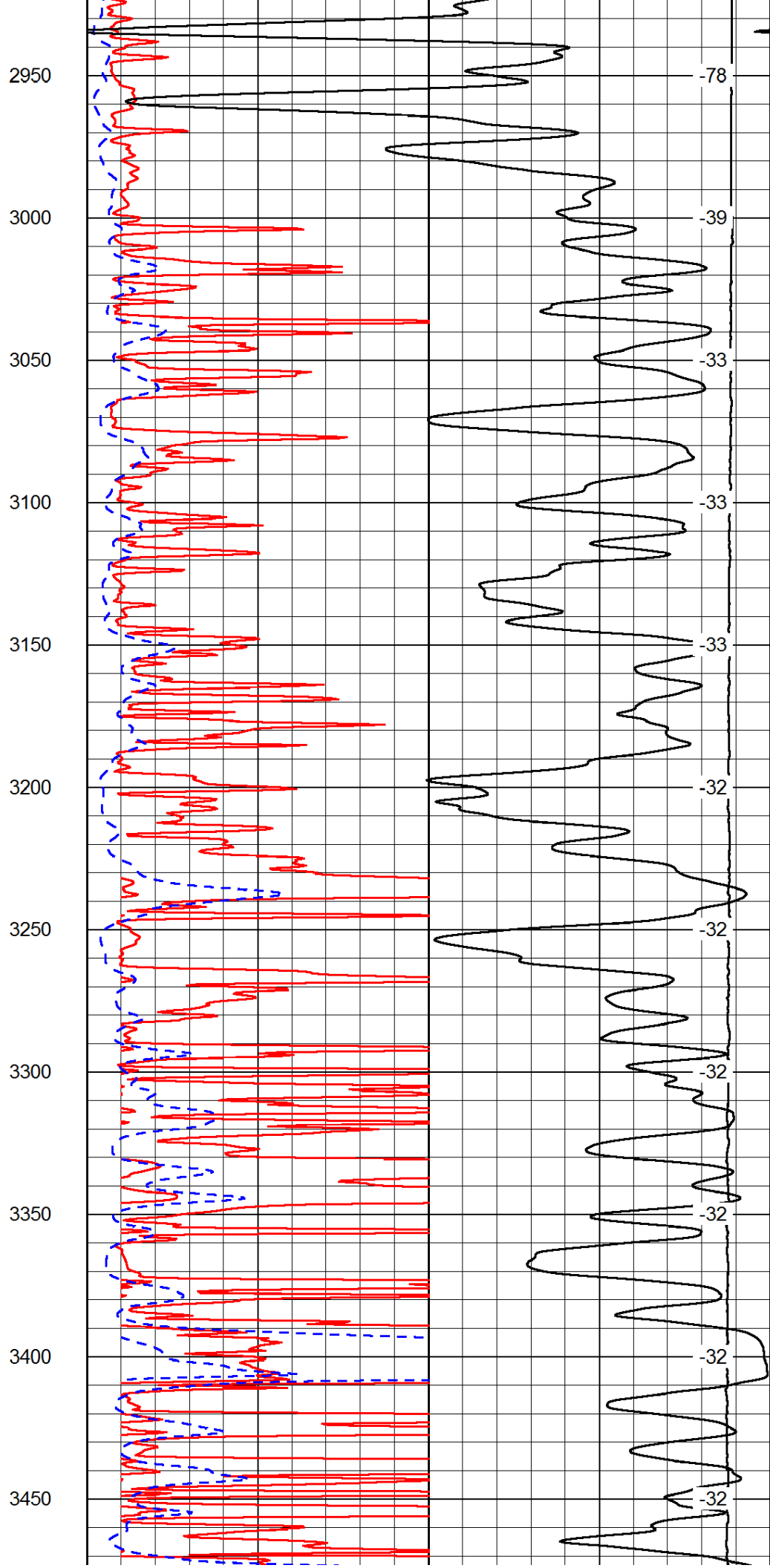
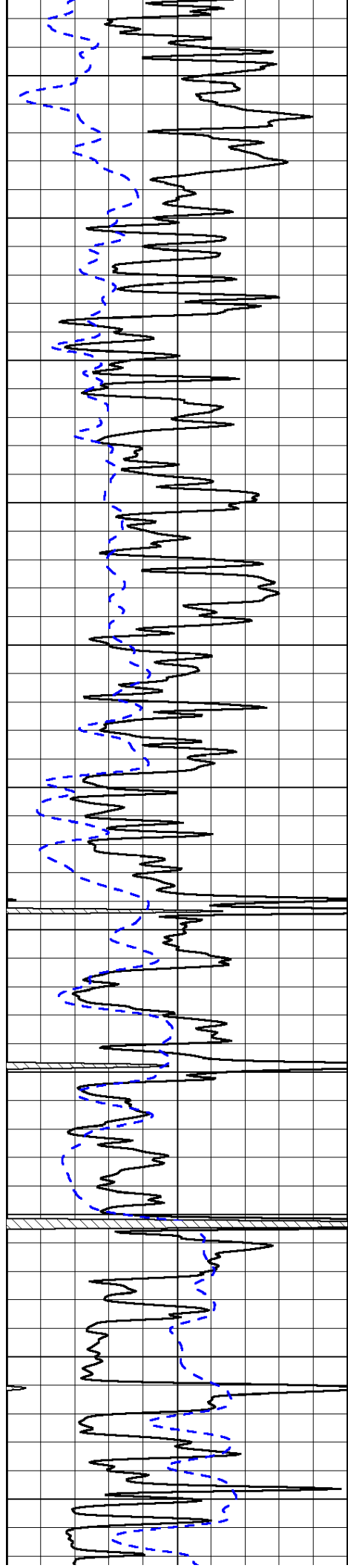
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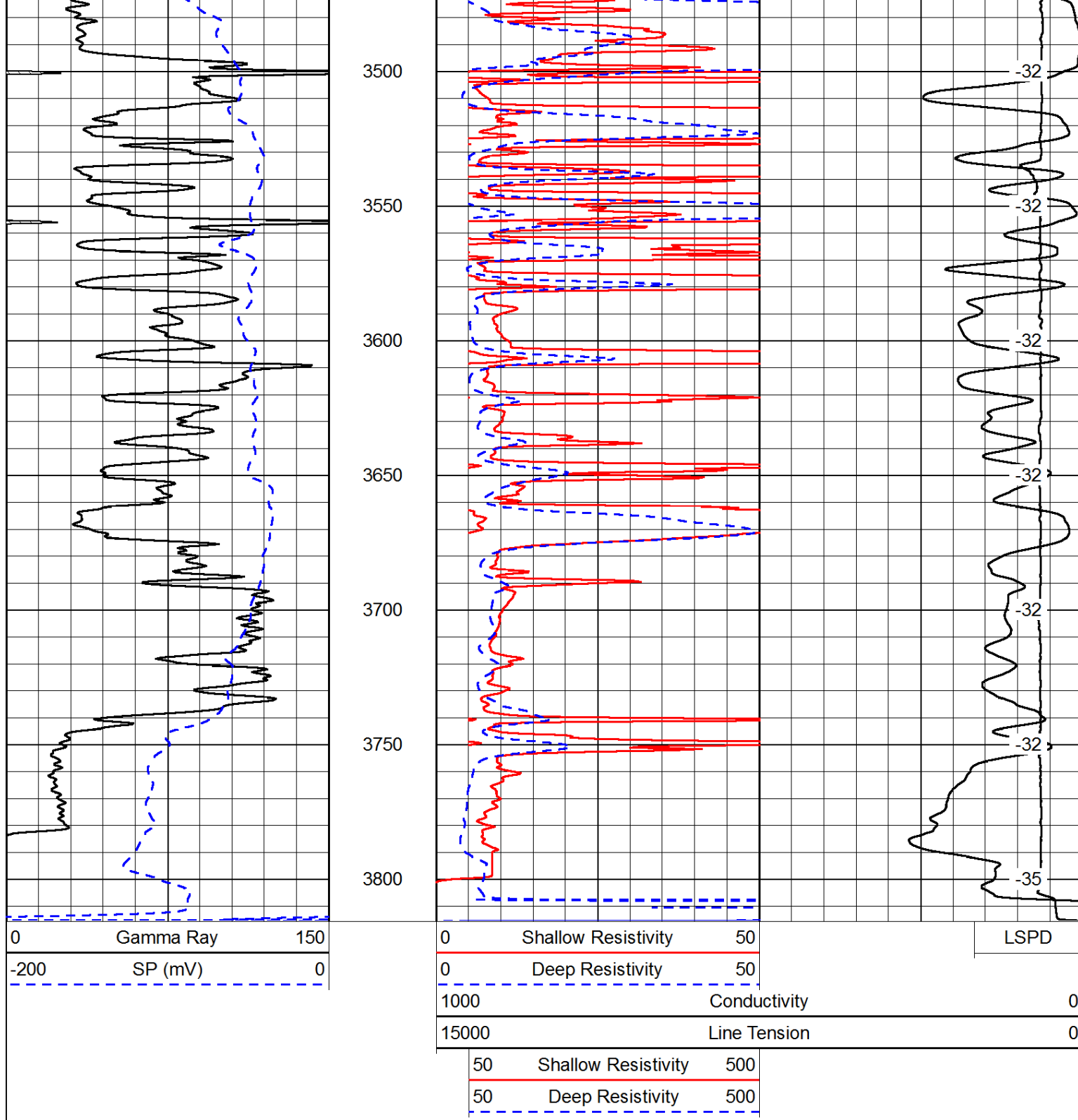
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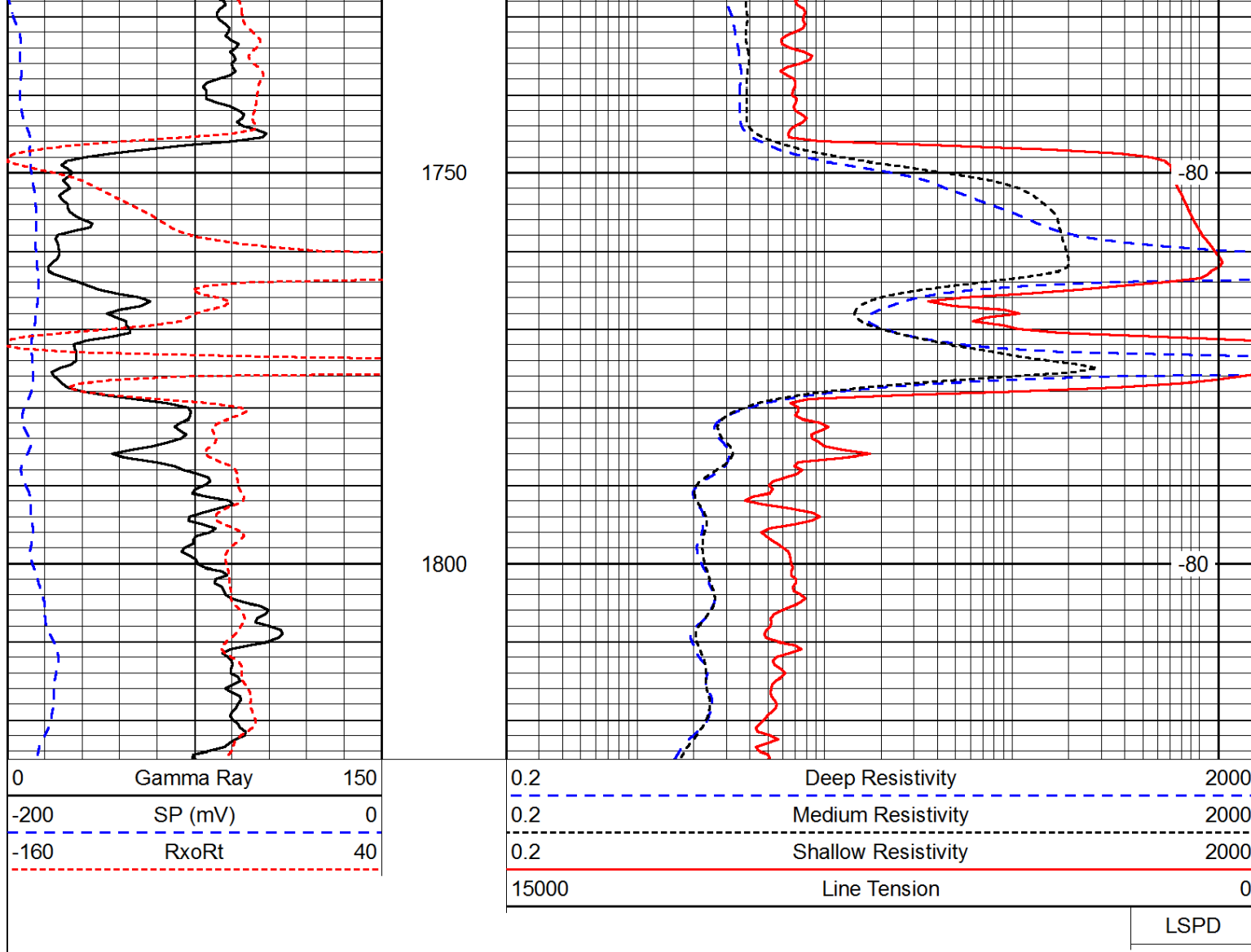




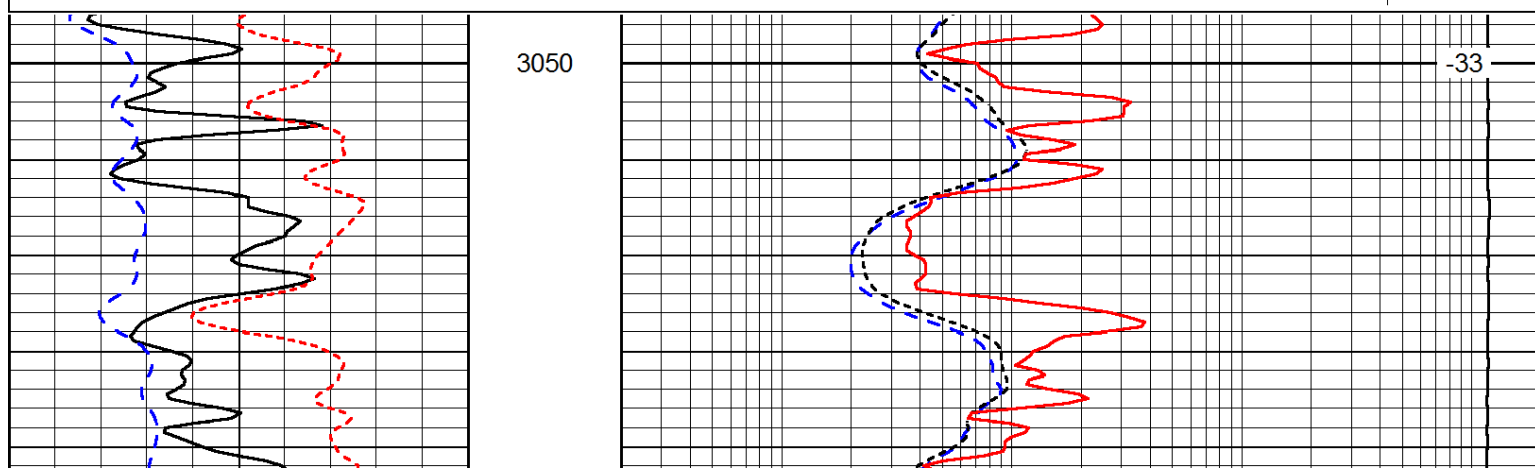
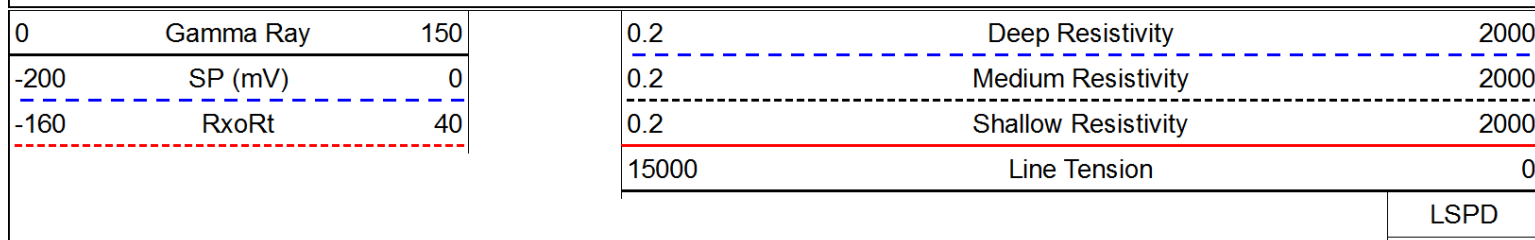


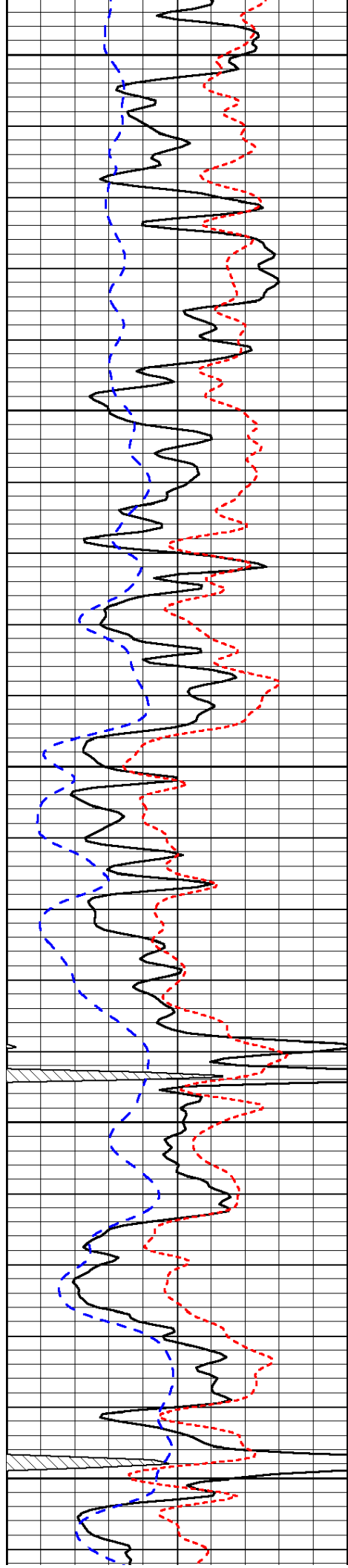


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Presentation Format: dil		
Dataset Creation: Thu Nov 13 13:16:04 2014		
Charted by: Depth in Feet scaled 1:240		
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0
LSPD		



Database File: c:\warrior\data\h&c_griffith unit #3-1\h&c_griffith_3-1hd.db
 Dataset Pathname: dil/hcstack
 Presentation Format: dil
 Dataset Creation: Thu Nov 13 13:16:04 2014
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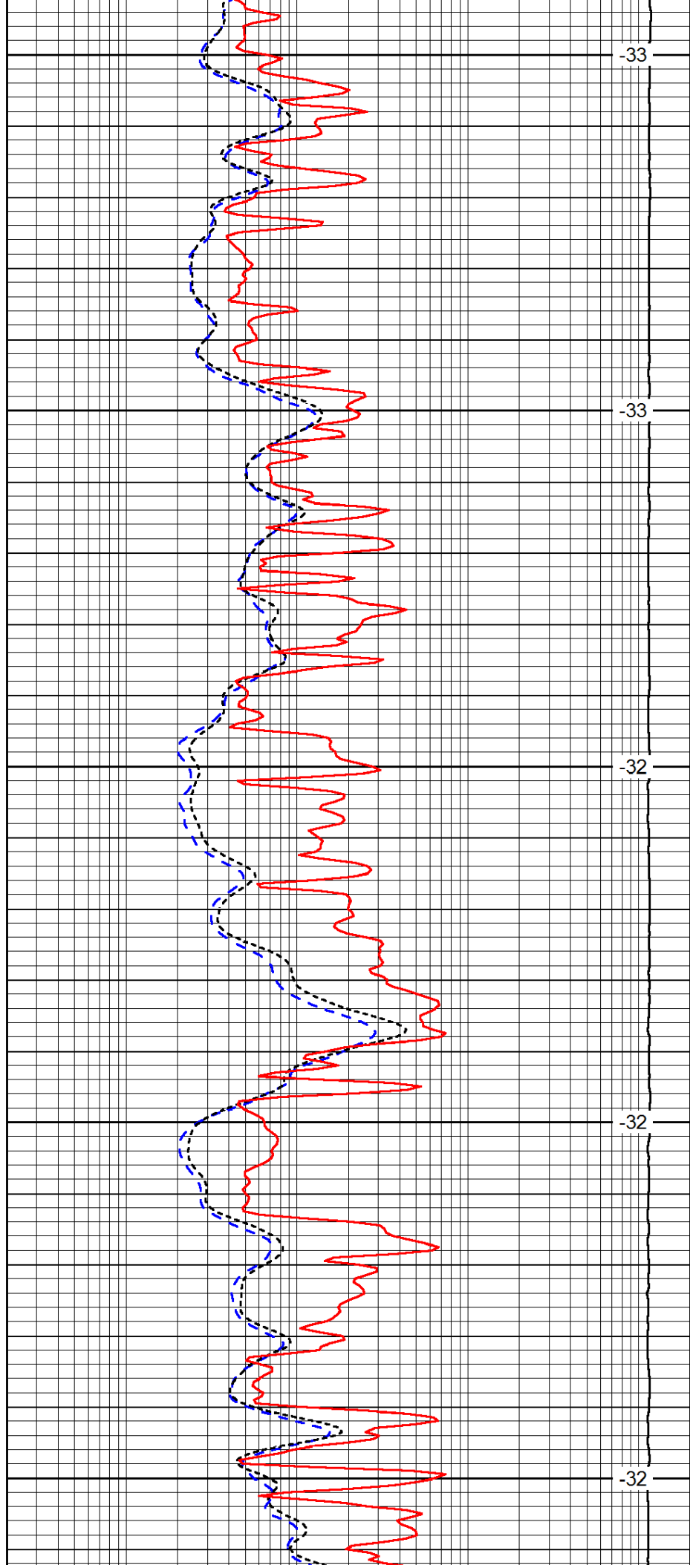
3100

3150

3200

3250

3300



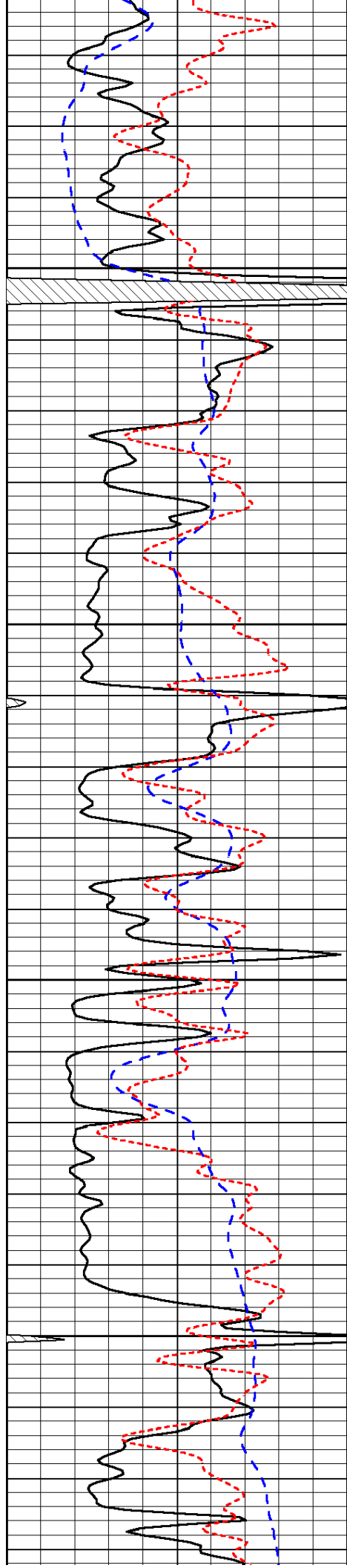
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-33

-32

-32

-32

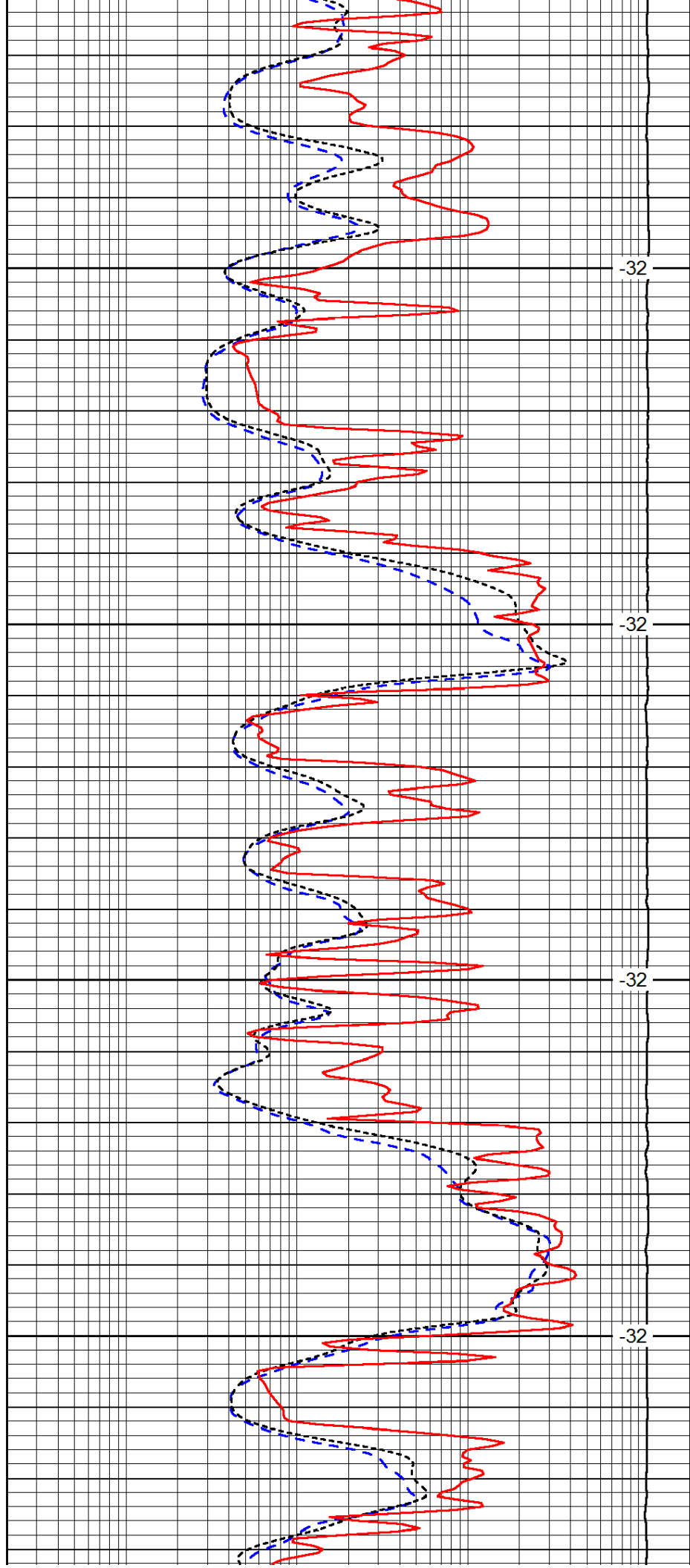


3350

3400

3450

3500

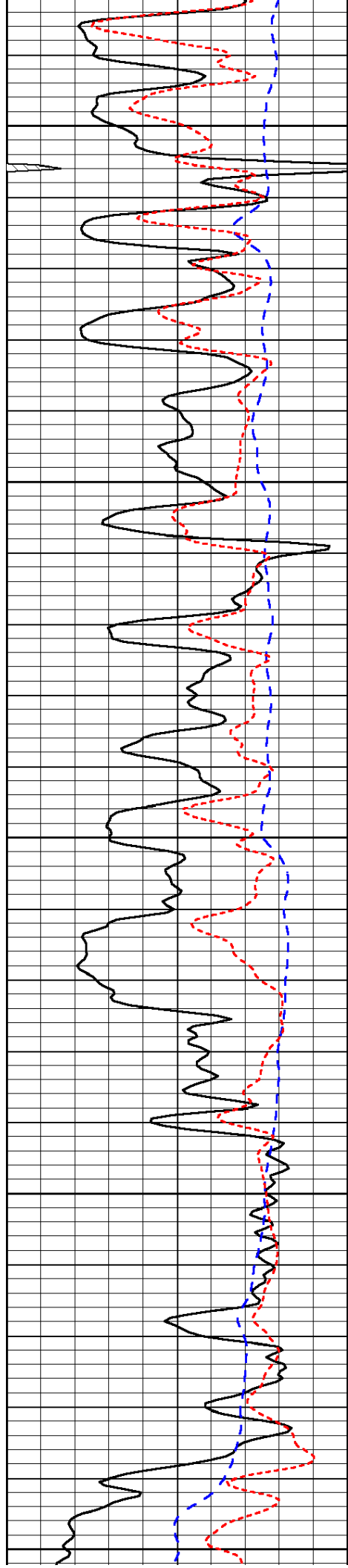


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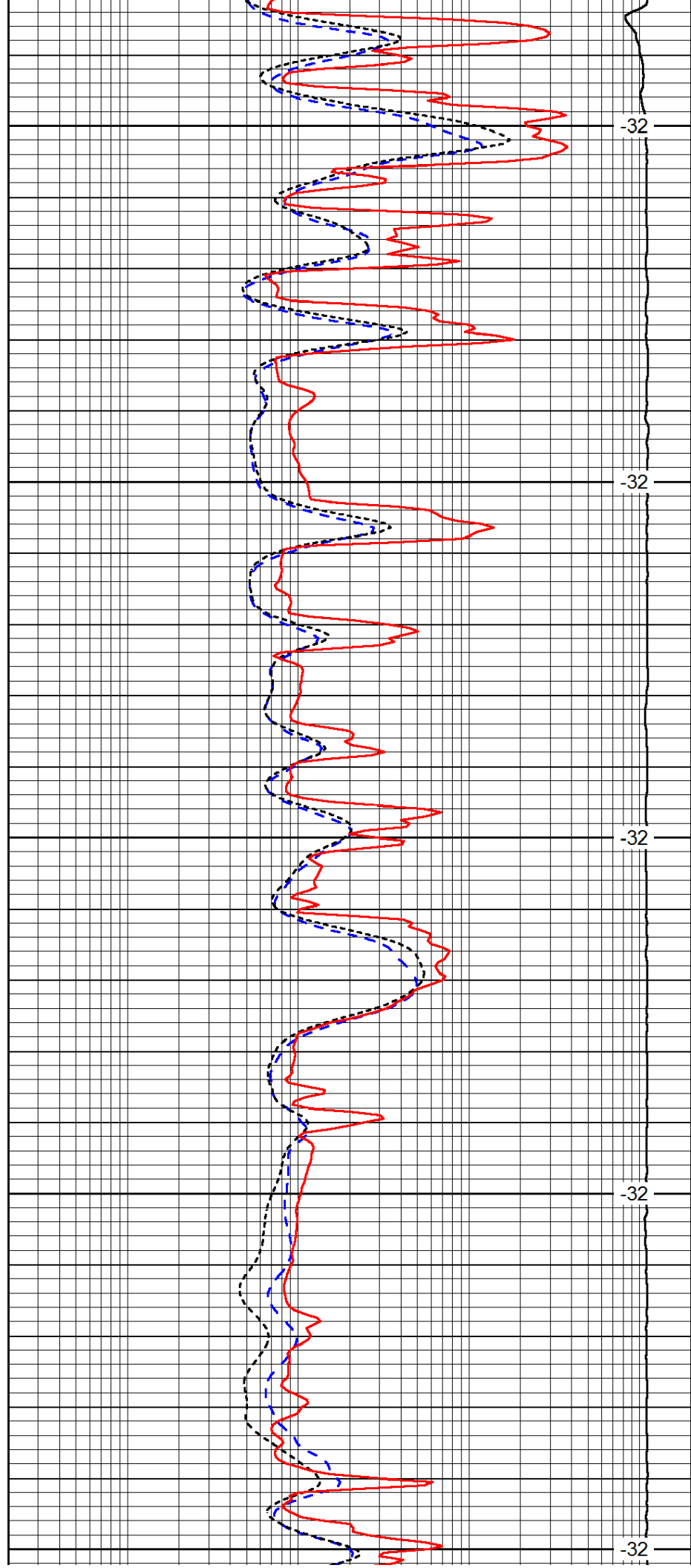
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3600

3650

3700

3750



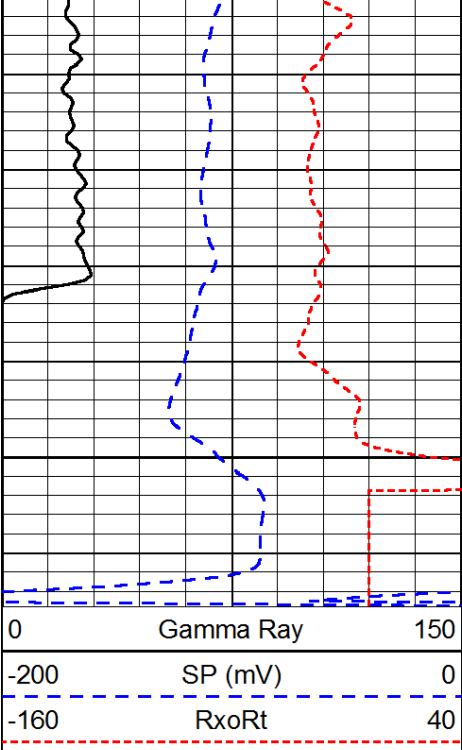
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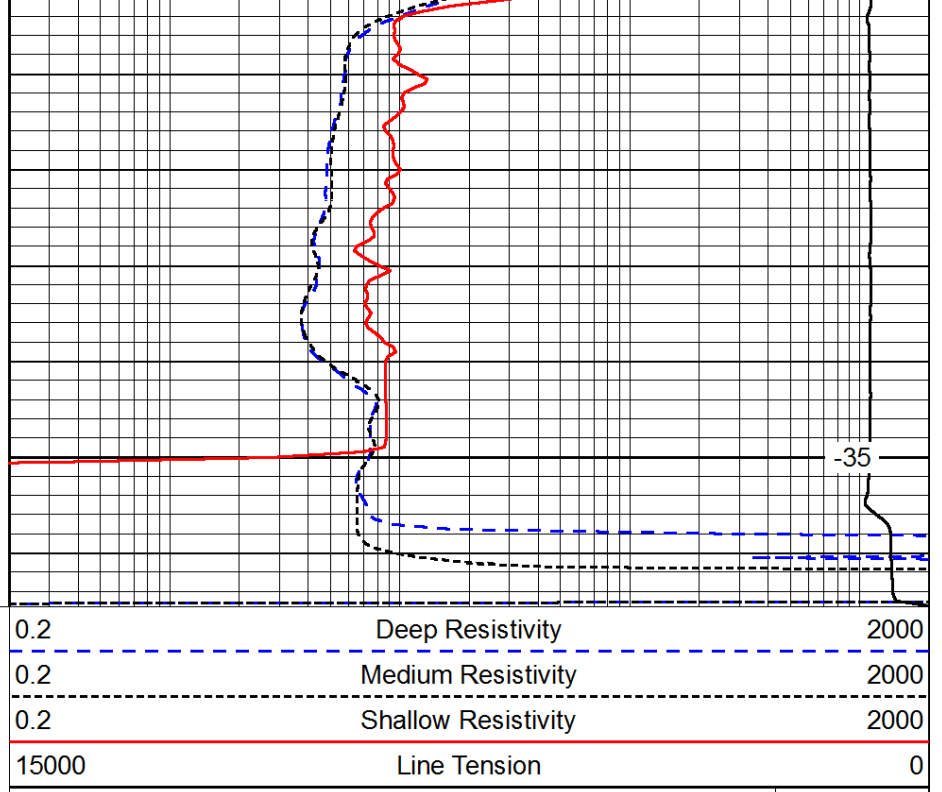
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-32

-32



3800



-35

LSPD