



Pioneer Energy Services

Dual Induction Log

API No.

15-167-23,935-00-00

Company Yale Oil Association, Inc.

Well Bogacz Smith No. 1-30

Field Trapp

County Russell

State

Kansas

Location

1,980' FSL & 1,980' FWL

Sec: 30

Twp: 15S

Rge: 13W

Elevation

Permanent Datum Ground Level

Kelly Bushing

10

Ft. Above Perm. Datum

Log Measured From

Kelly Bushing

10

Ft. Above Perm. Datum

Drilling Measured From

Kelly Bushing

10

Ft. Above Perm. Datum

Date

1/13/2014

Run Number

One

Depth Driller

3262

Depth Logger

3260

Bottom Logged Interval

3259

Top Log Interval

400

Casing Driller

8.625 @ 420

Casing Logger

418

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

6200

Density / Viscosity

9.1

48

pH / Fluid Loss

9.0

7.6

Source of Sample

Flowline

Rm @ Meas. Temp

.36

@ 58

Rmf @ Meas. Temp

.27

@ 58

Rmc @ Meas. Temp

.49

@ 58

Source of Rmf / Rmc

Charts

Rm @ BHT

.19

@ 109

Operating Rig Time

3 1/2

Hours

Max Rec. Temp. F

109

Equipment Number

108

Location

Hays

Recorded By

J. Long

Witnessed By

Jim McDaniel

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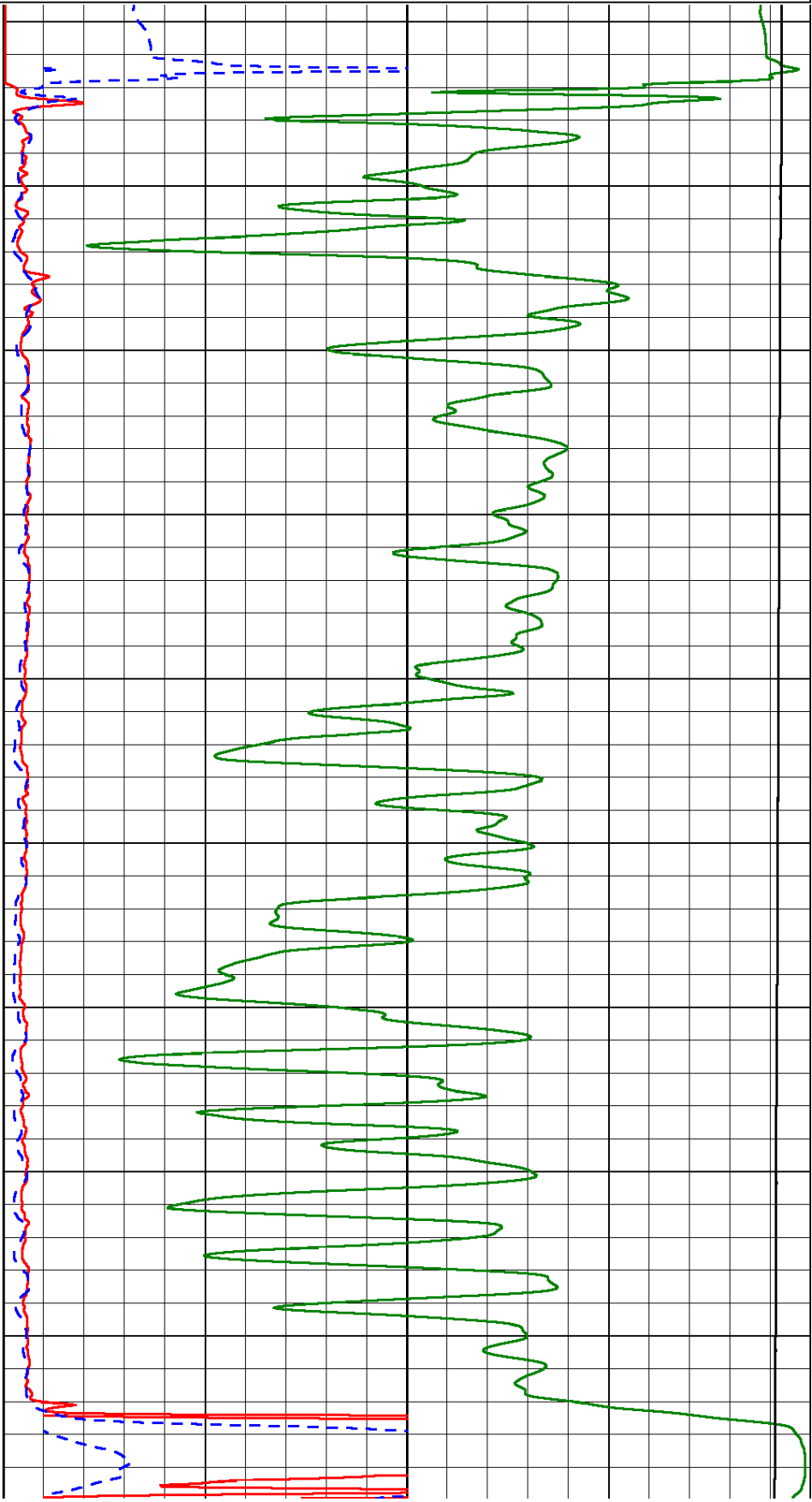
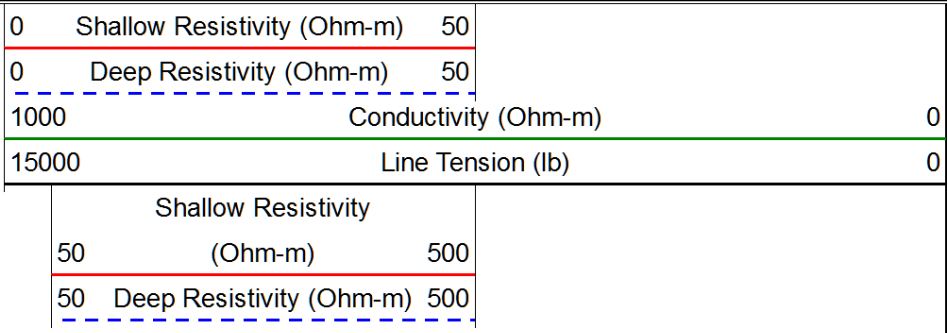
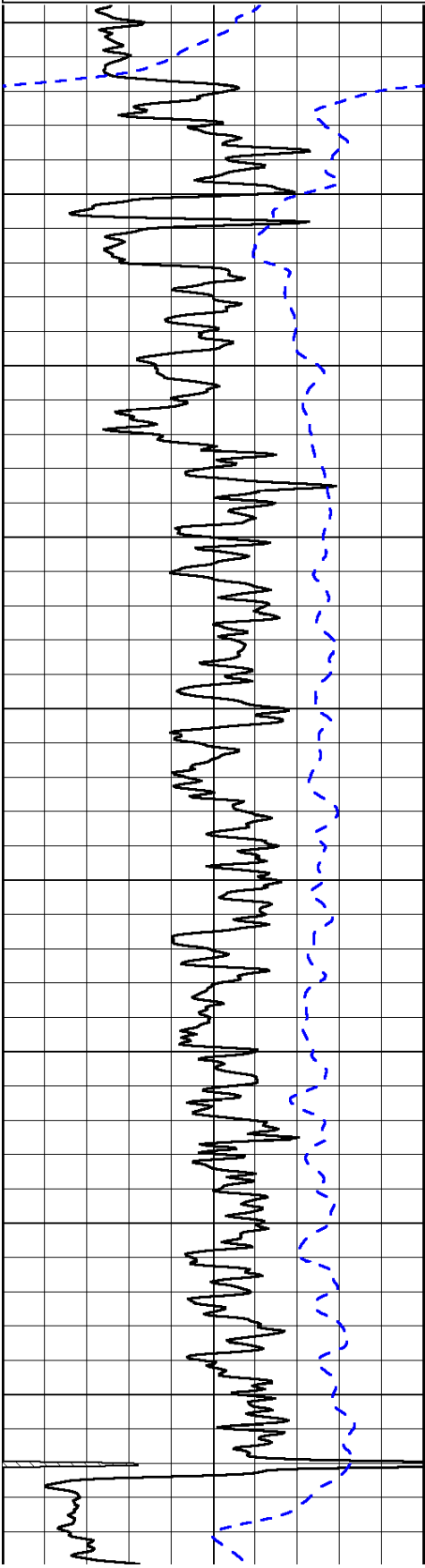
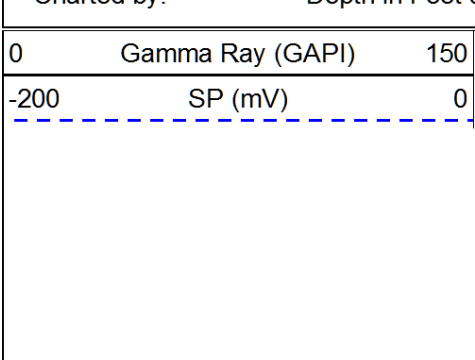
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

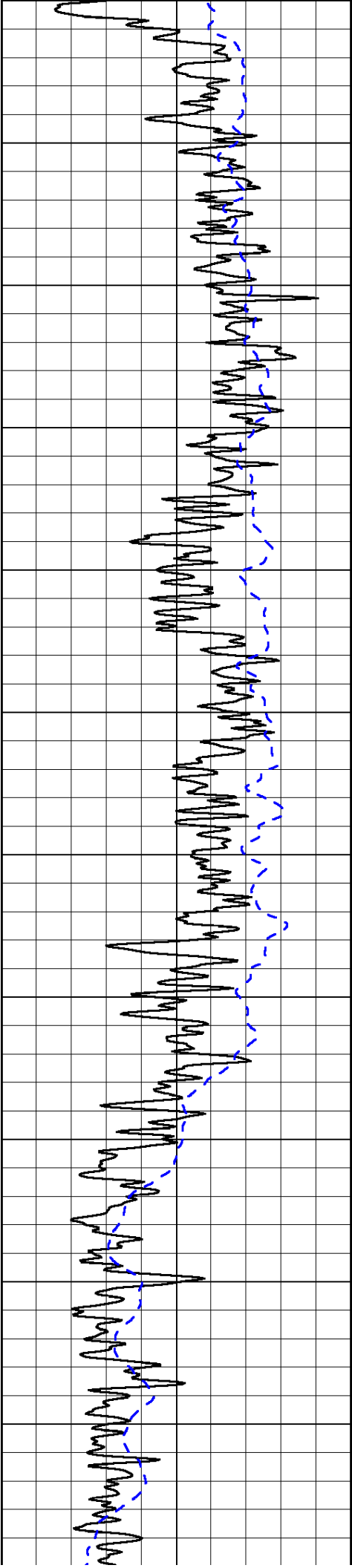
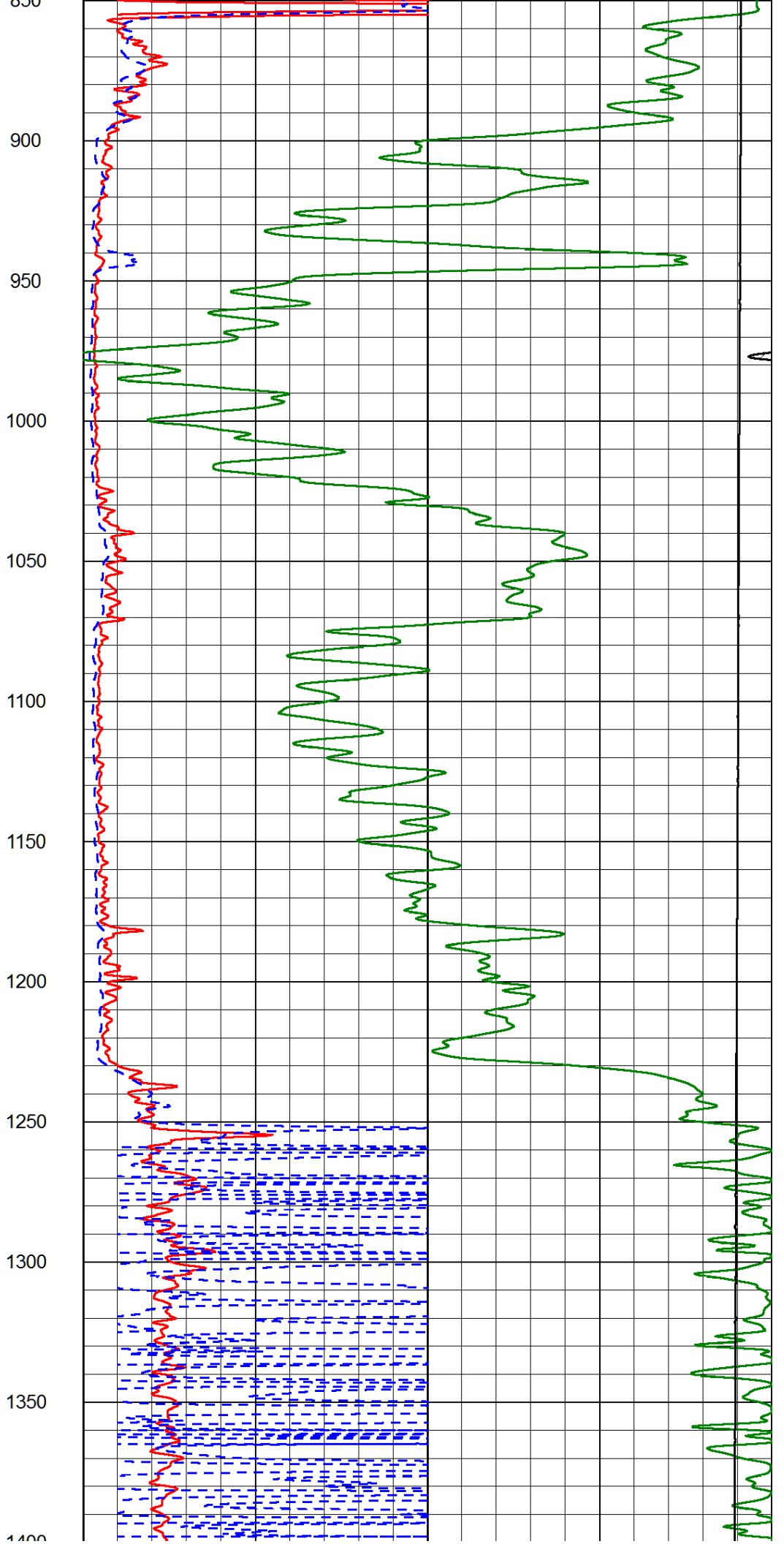
Comments

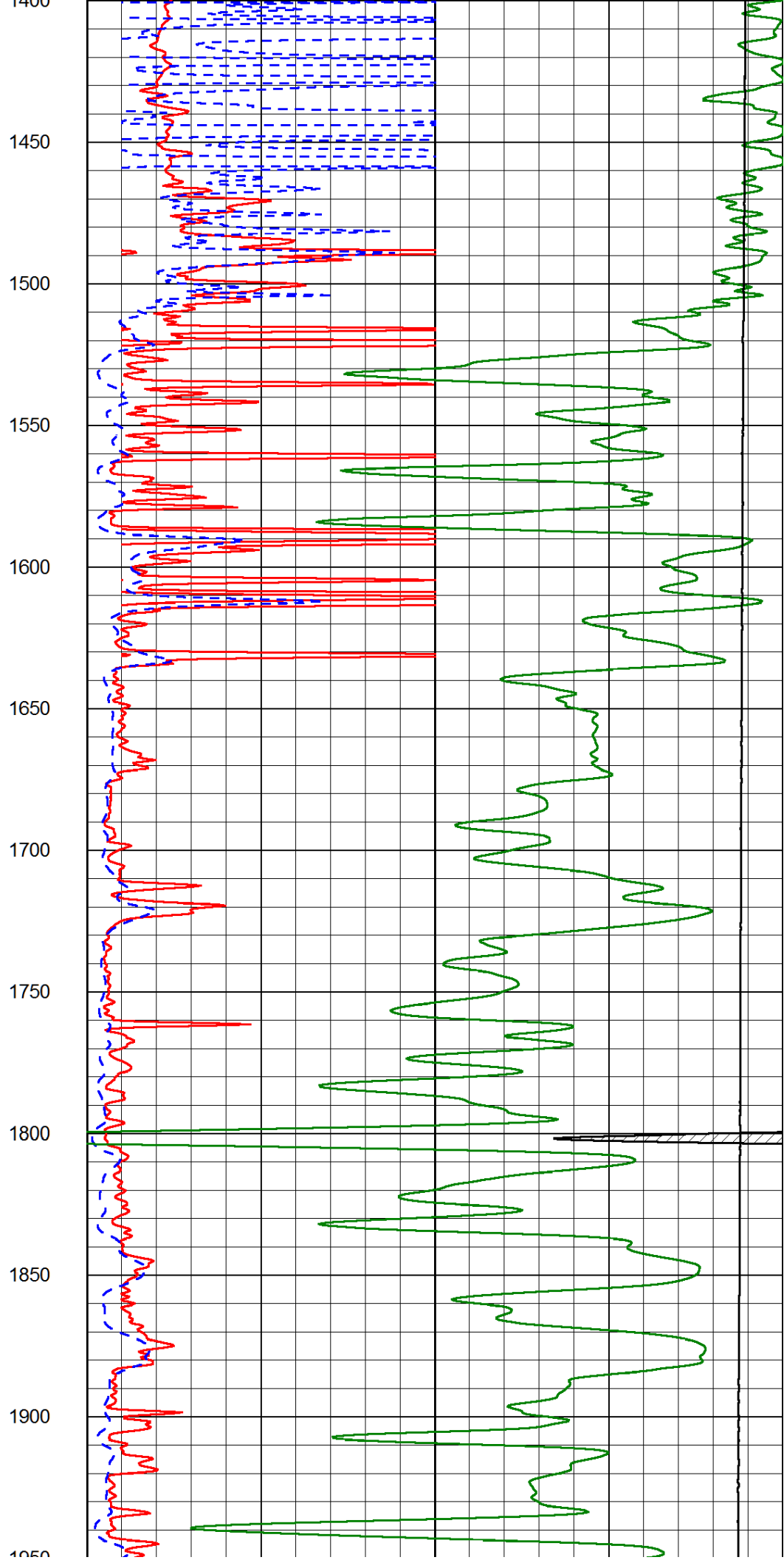
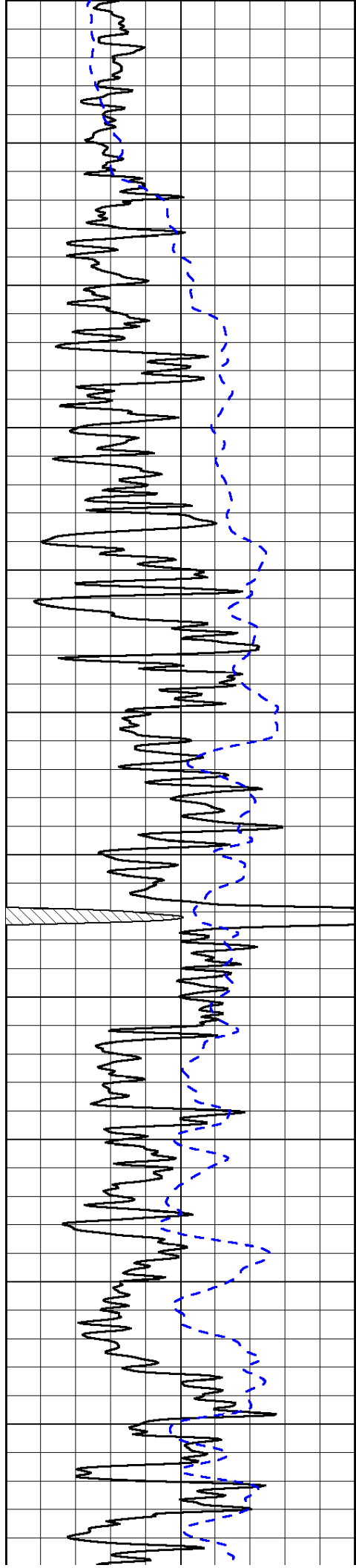
Thank you for using Log-Tech, Inc.
(785) 625-3858

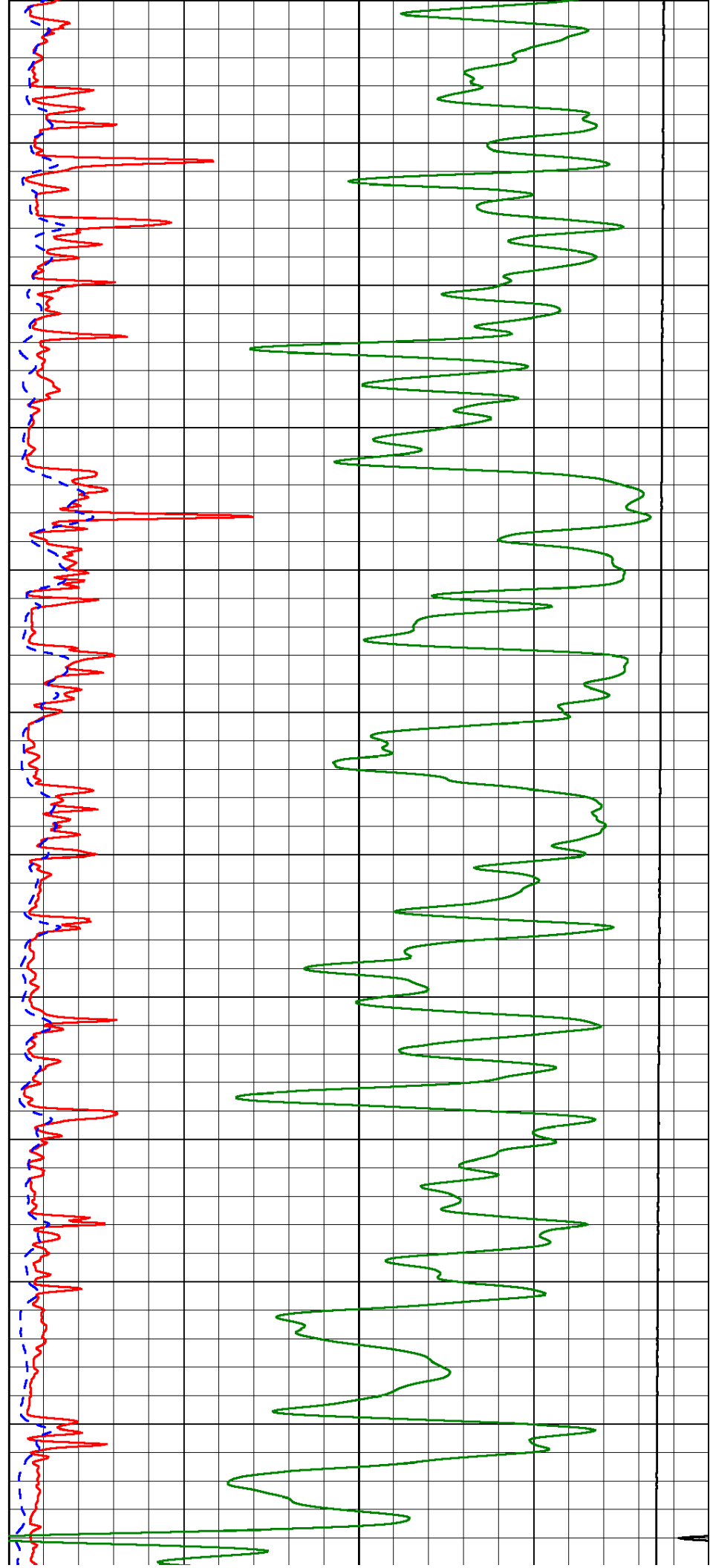
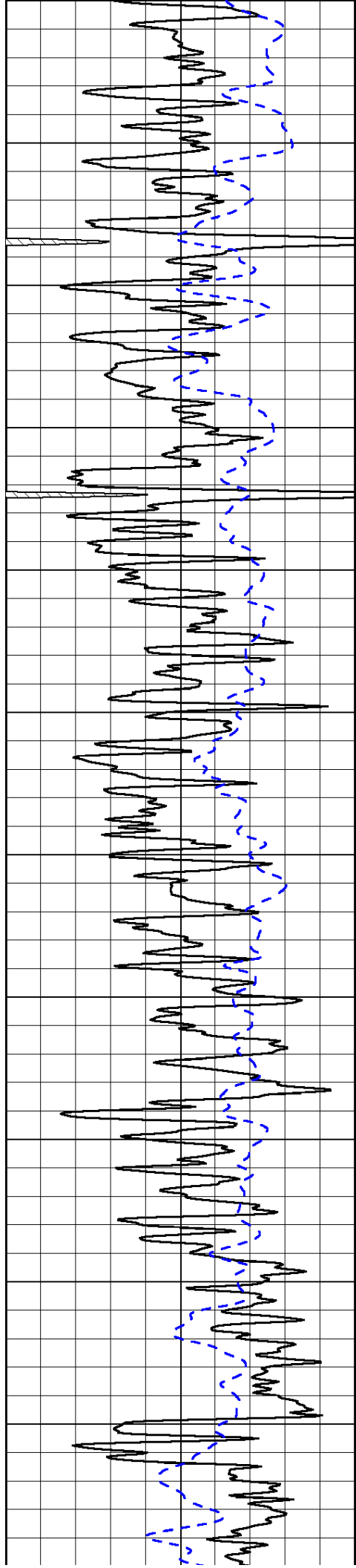
Russell, 10 1/2 South to Michaelis Road, 2 East, 1/3 North, West Into

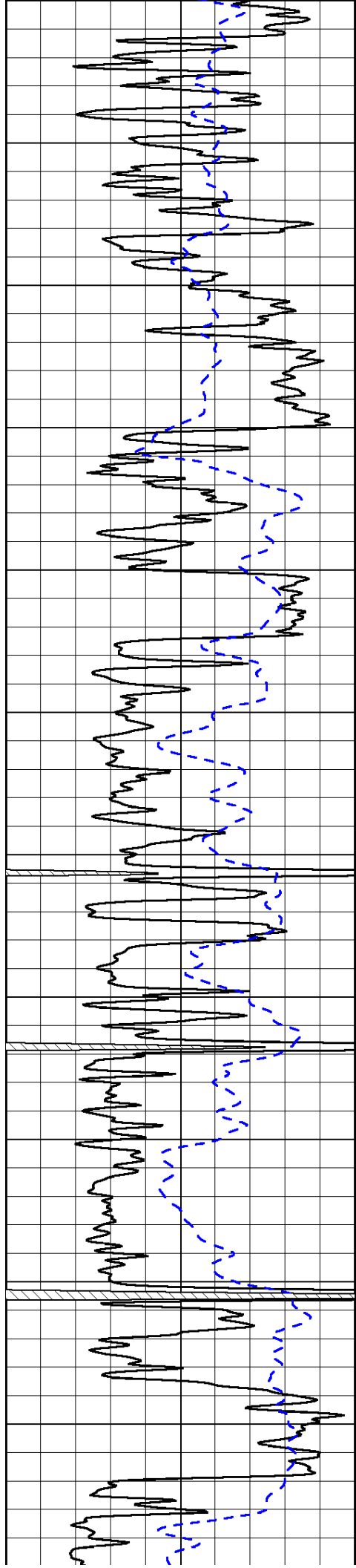
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Presentation Format: dil2in
Dataset Creation: Mon Jan 13 20:29:31 2014
Charted by: Depth in Feet scaled 1:600



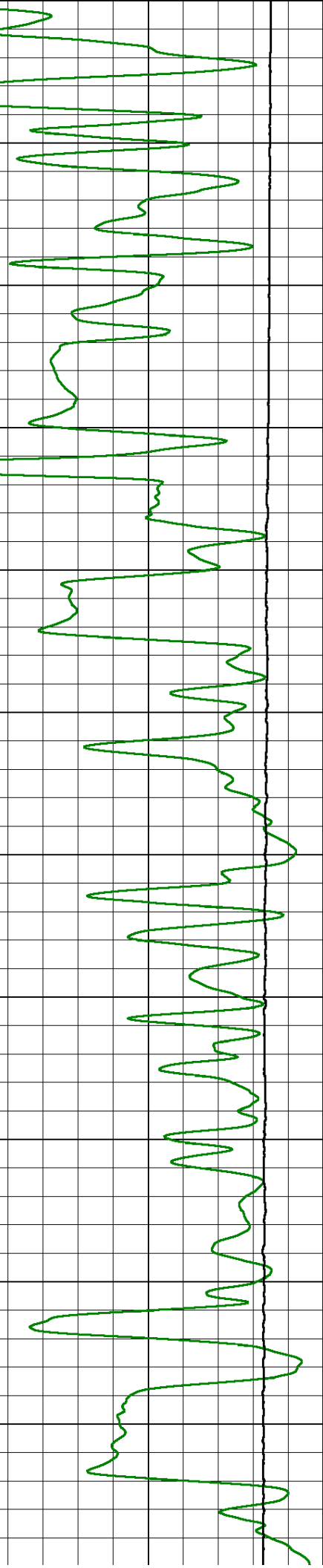
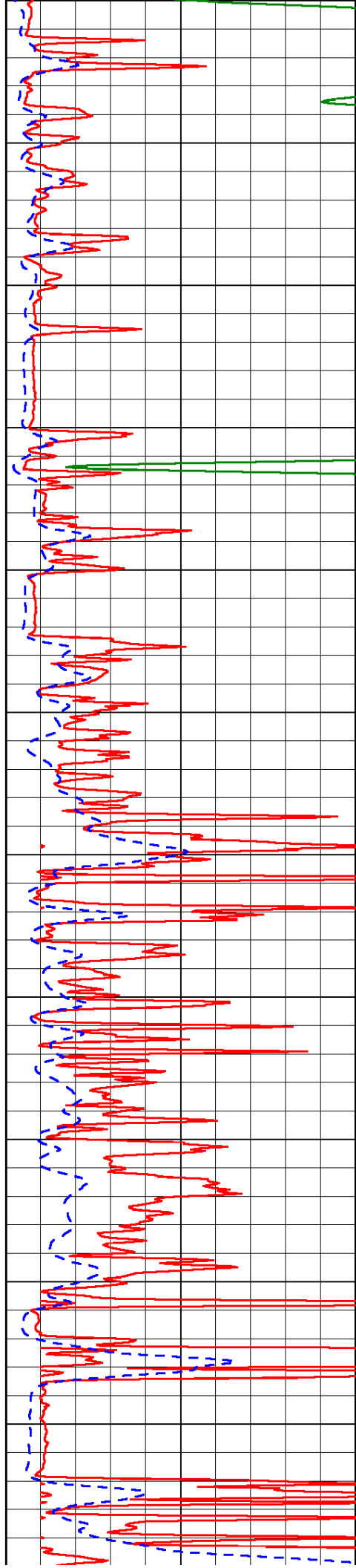


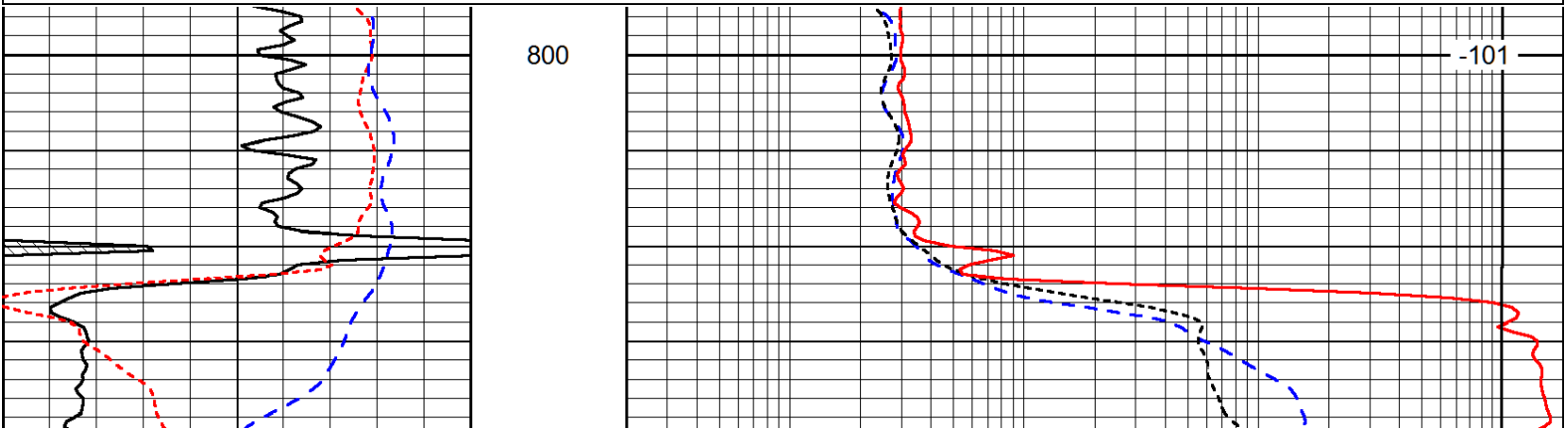
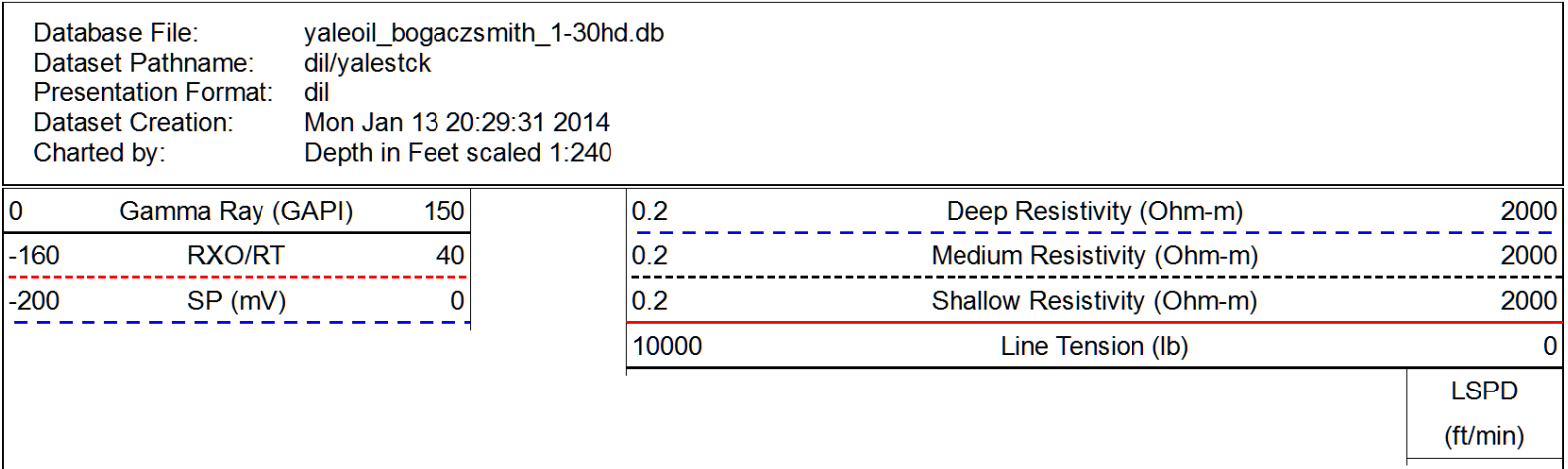
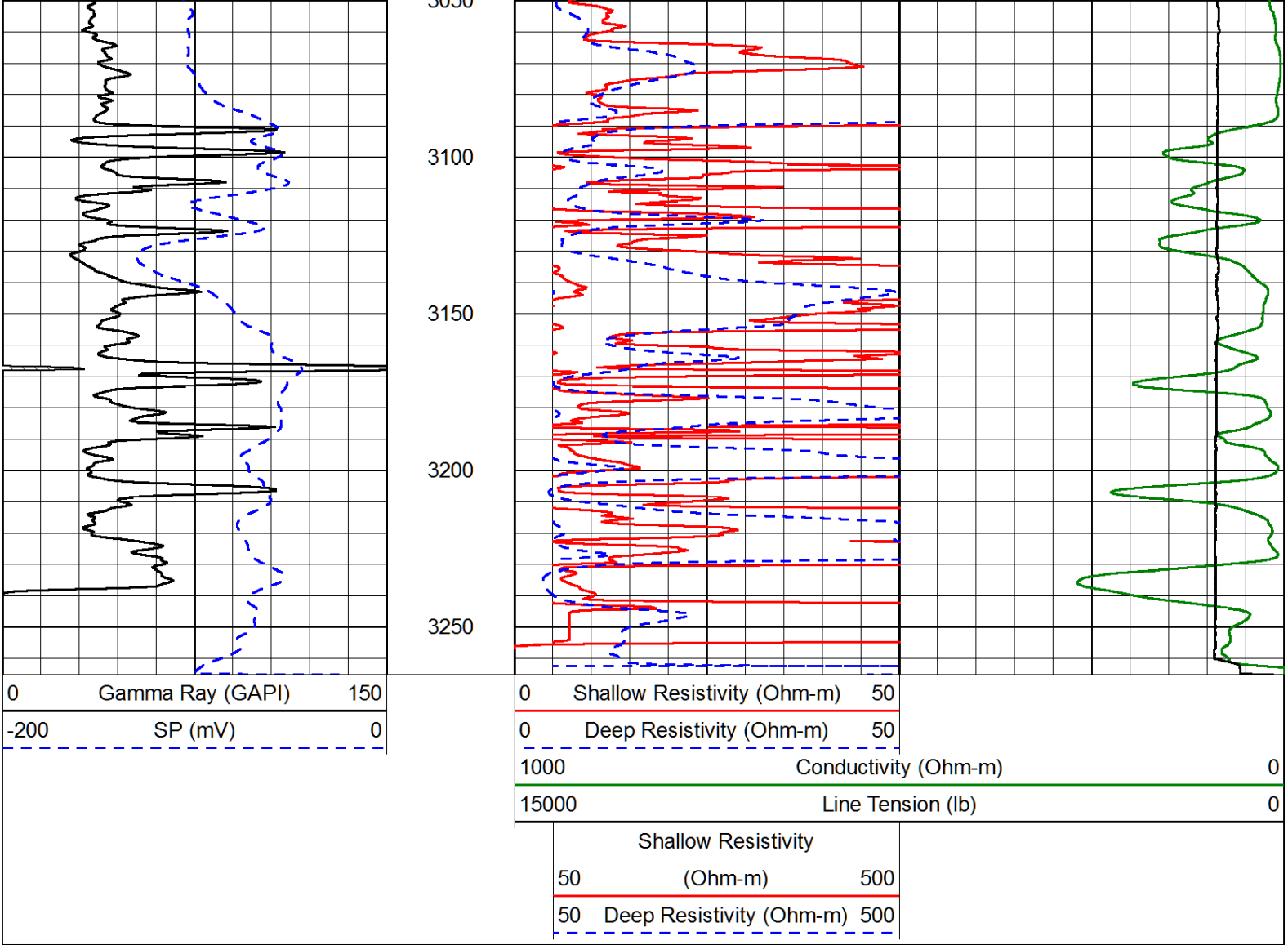


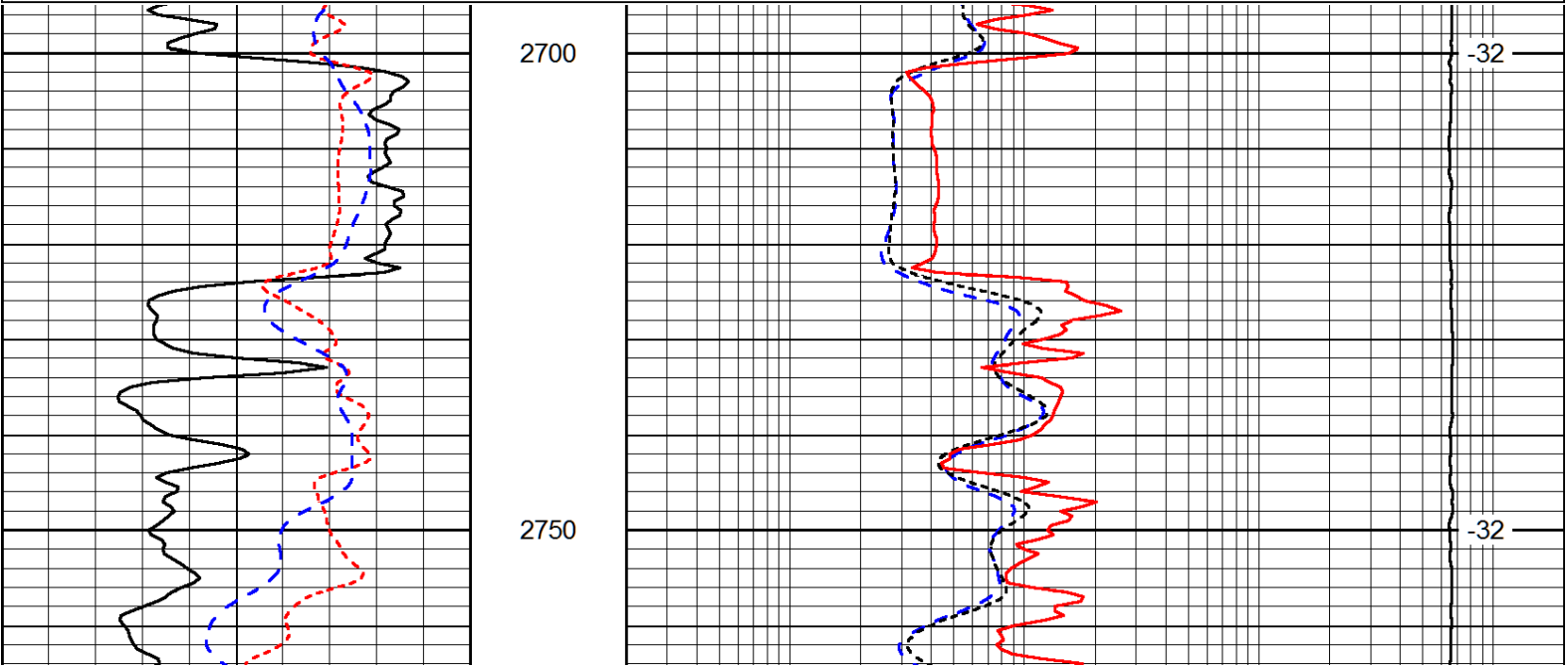
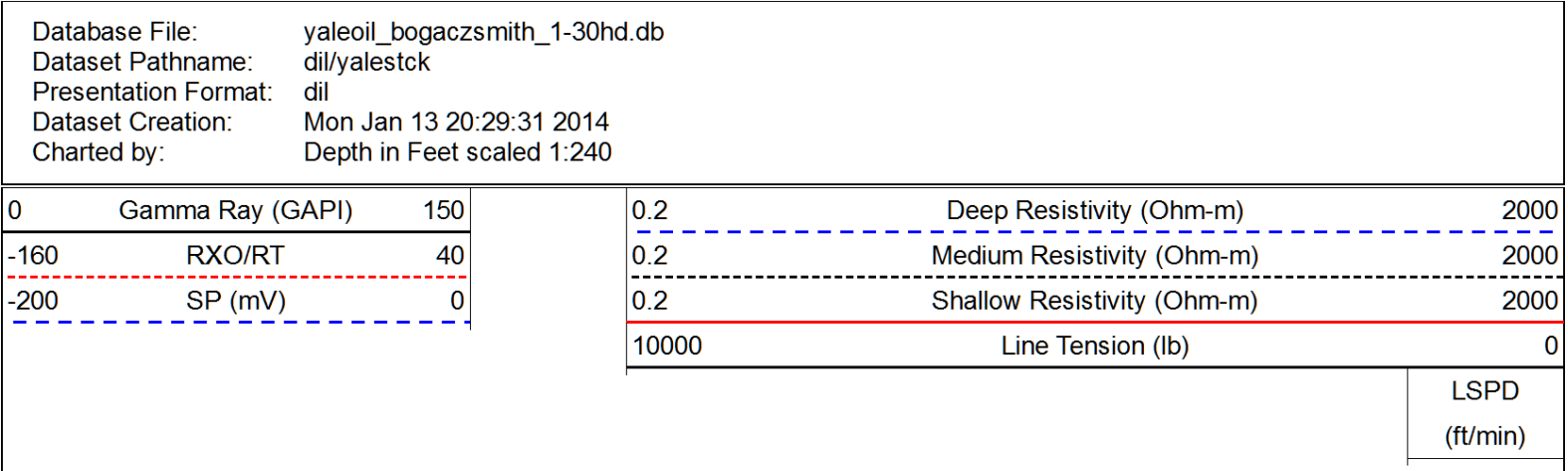
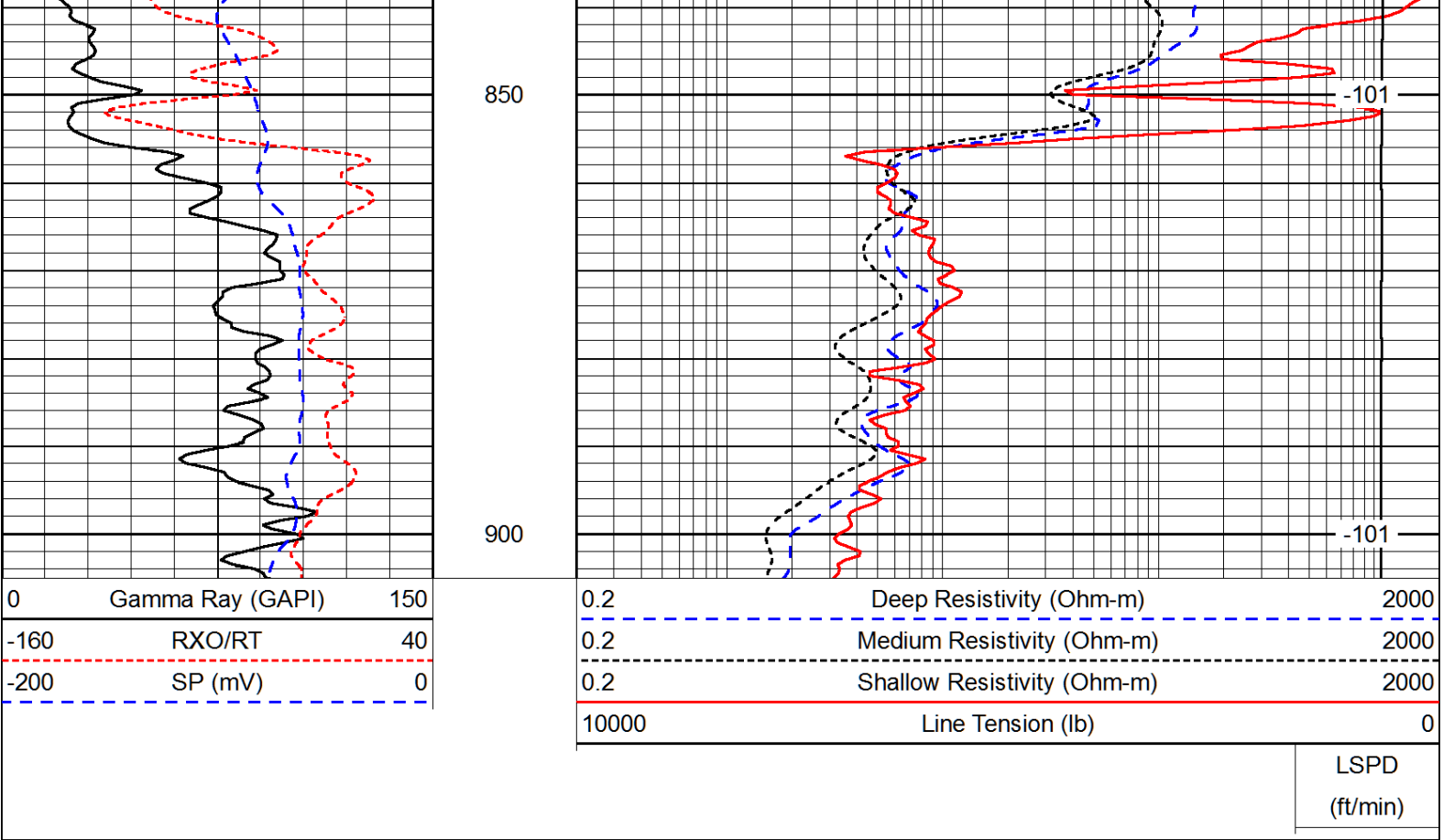


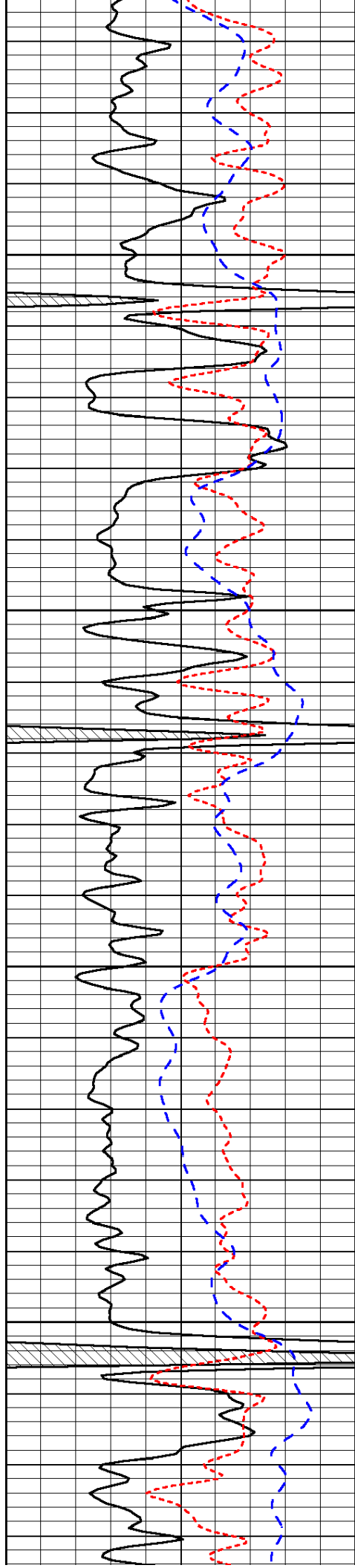


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2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050







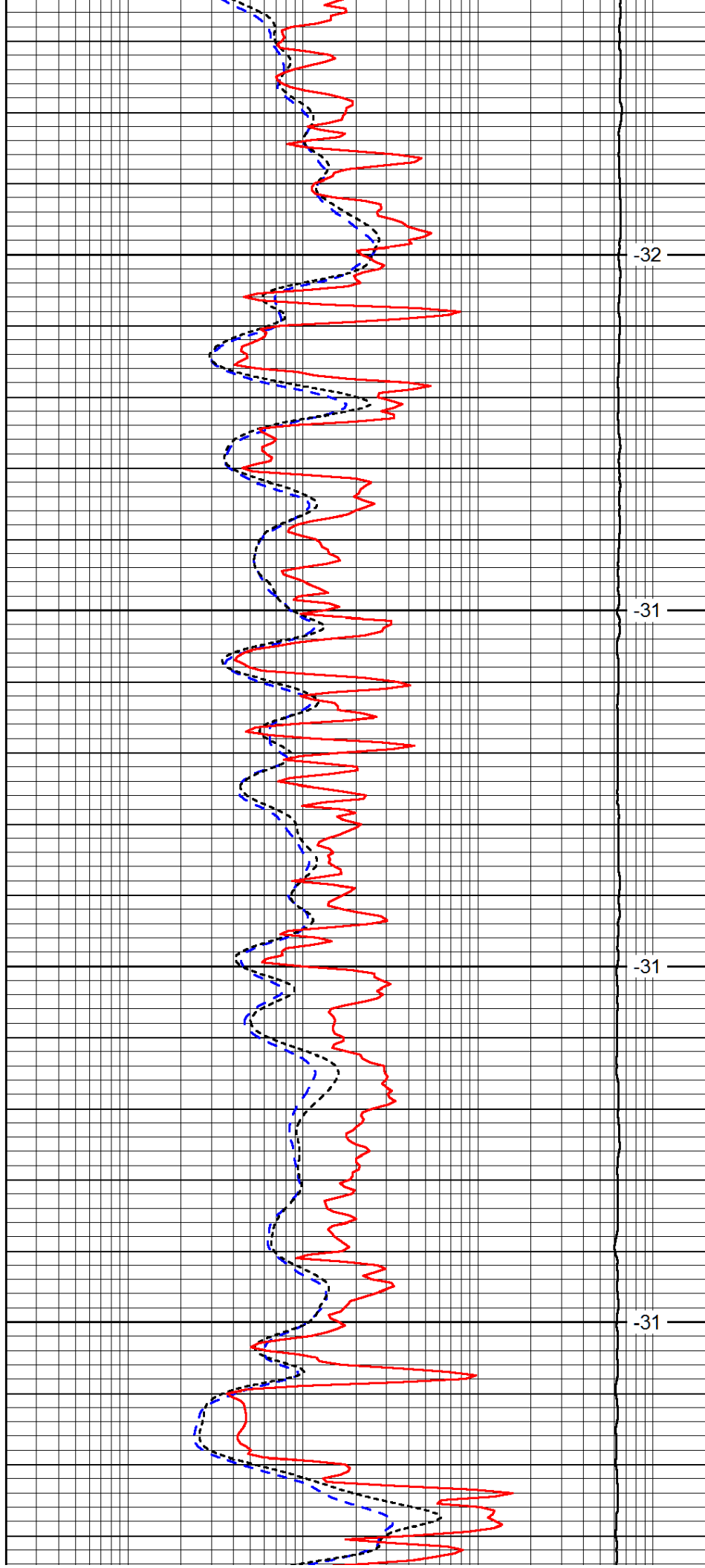


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2900

2950

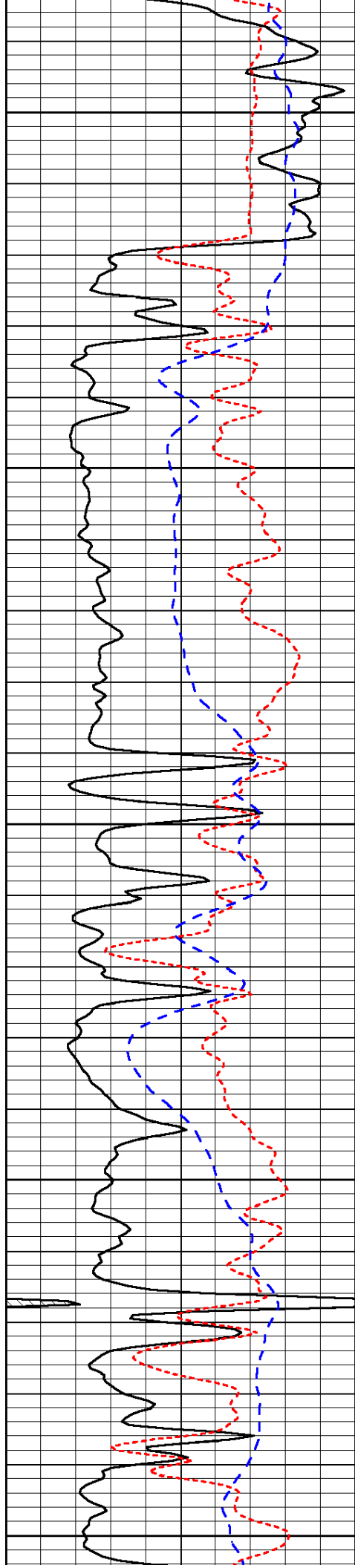


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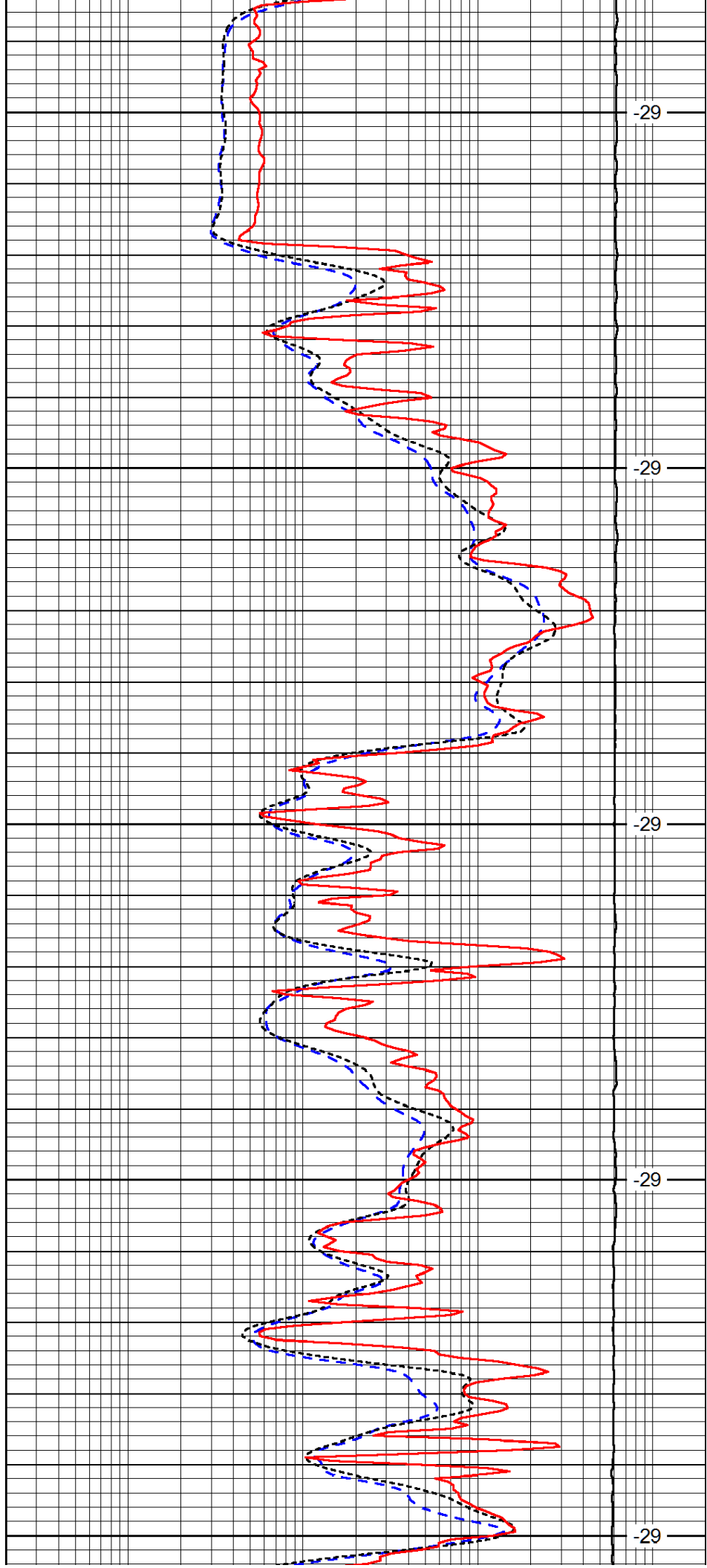
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3050

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3150

3200



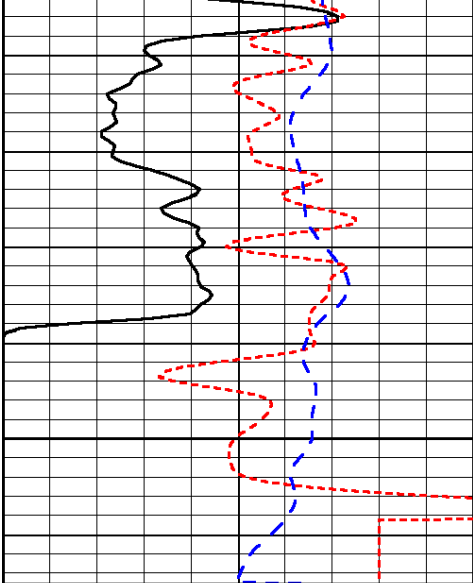
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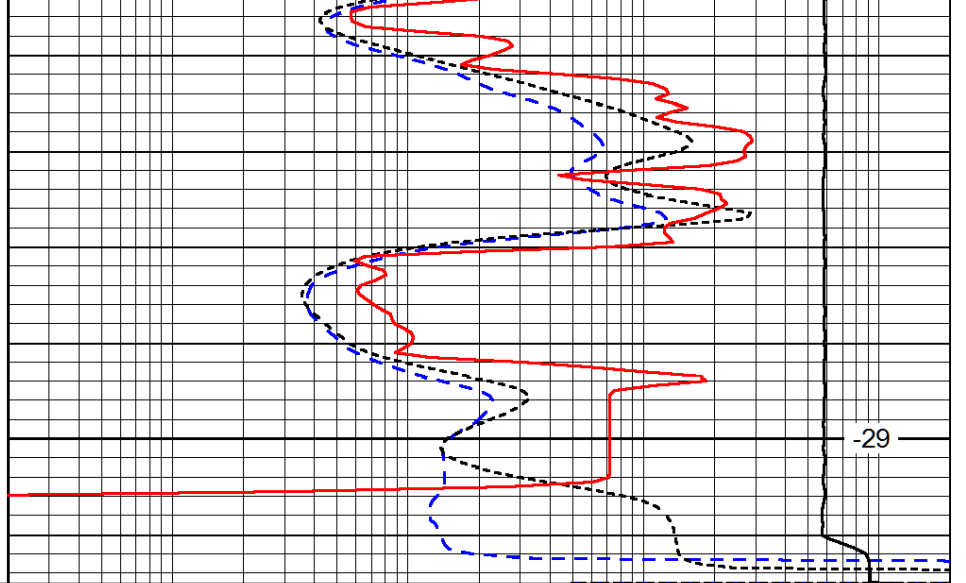
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0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

3250



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)