



Pioneer Energy Services

Dual Induction Log

API No.

15-165-22,000-00-00

Company Black Tea Oil, LLC

Well Revis No.1

Field Otis-Albert

County Rush State Kansas

Location 2310' FNL & 800' FWL

Sec: 27 Twp: 18S Rge: 16W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 1999

Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing Elevation
K.B. 2006
D.F. 1999
G.L. 1999

Date

12/3/2012

Run Number

One

Depth Driller

3693

Depth Logger

3692

Bottom Logged Interval

3691

Top Log Interval

1050

Casing Driller

8.625 @ 1060

Casing Logger

1050

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity,ppm CL

5,000

Density / Viscosity

9.2 49

pH / Fluid Loss

10.0 9.6

Source of Sample

Flowline

Rm @ Meas. Temp

.75 @ 51

Rmf @ Meas. Temp

.56 @ 51

Rmc @ Meas. Temp

1.01 @ 51

Source of Rmf / Rmc

Charts

Rm @ BHT

.34 @ 113

Operating Rig Time

4 Hours

Max Rec. Temp. F

113

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Marc Downing

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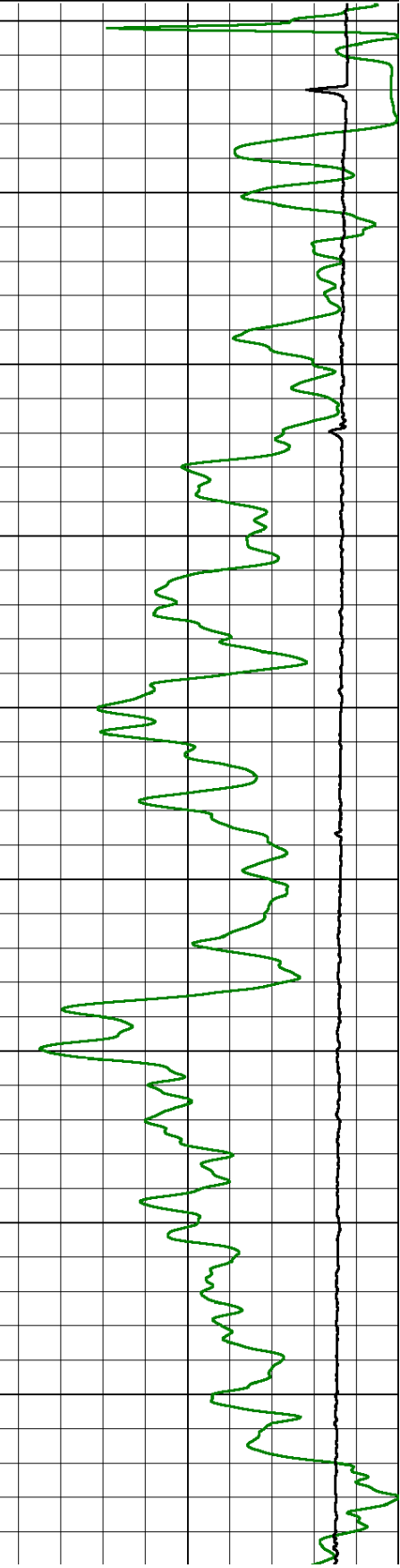
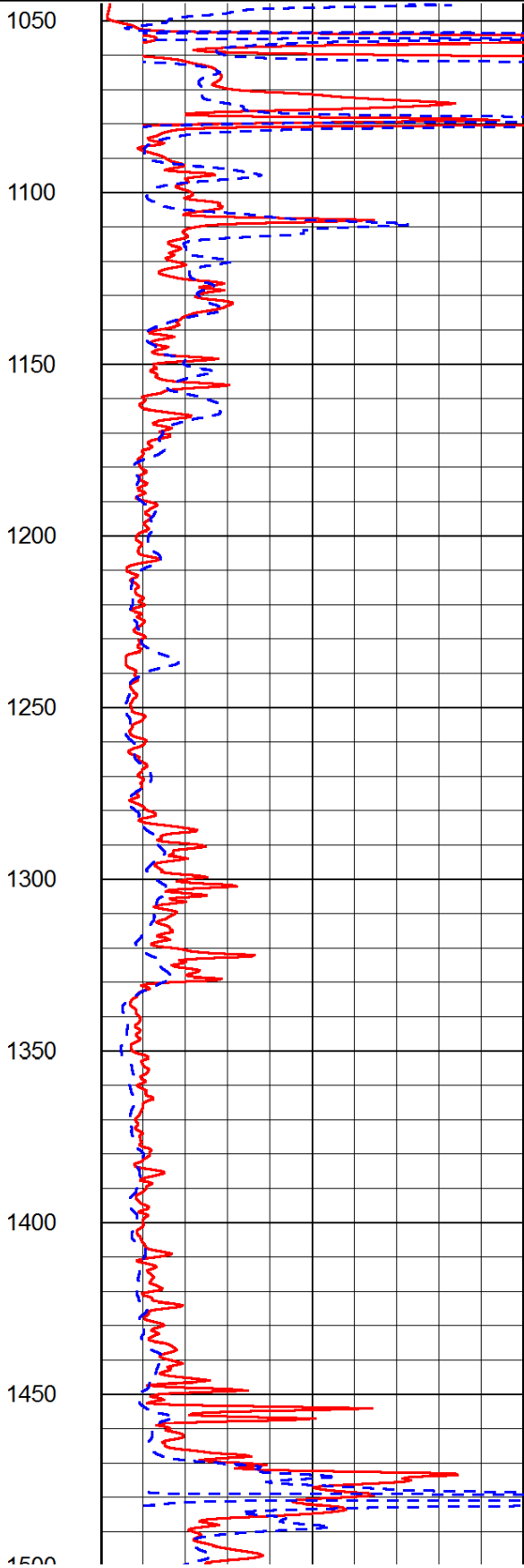
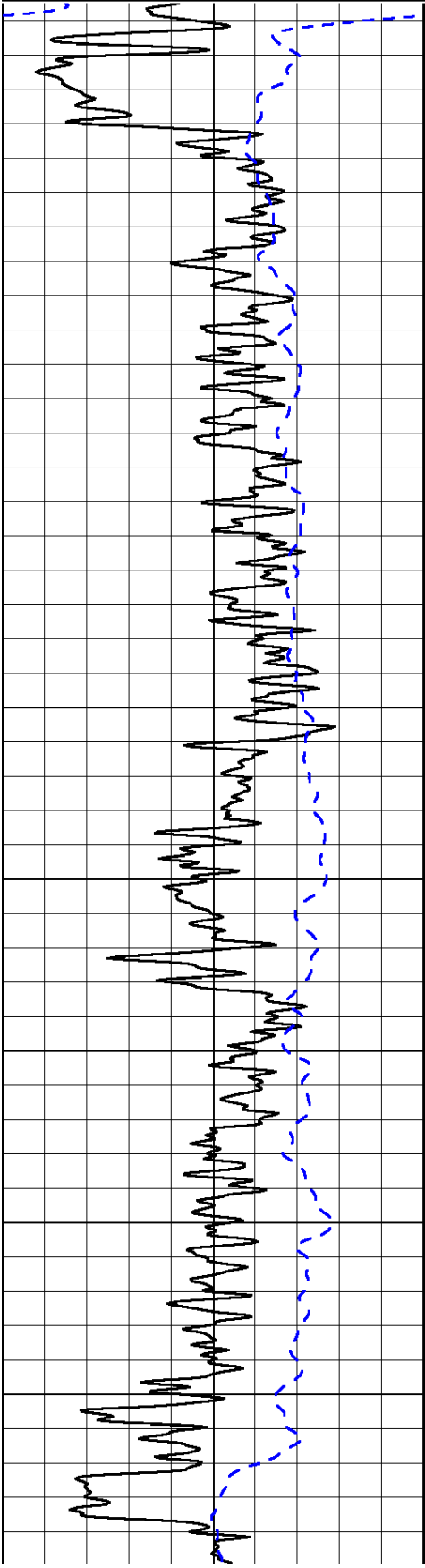
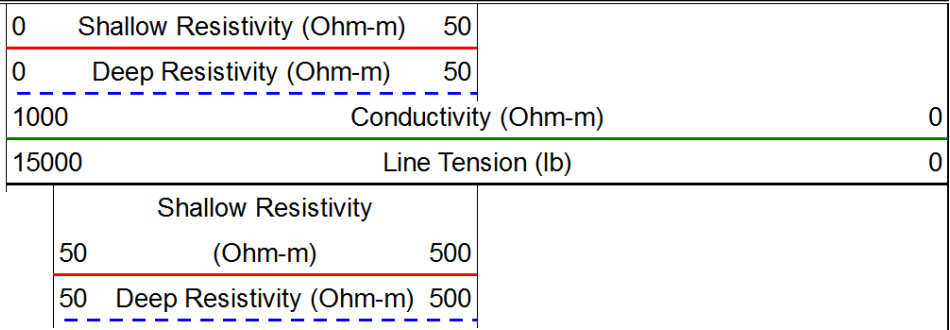
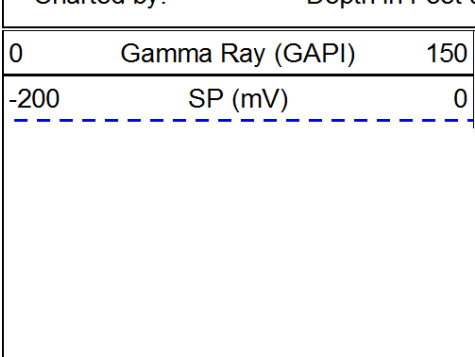
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

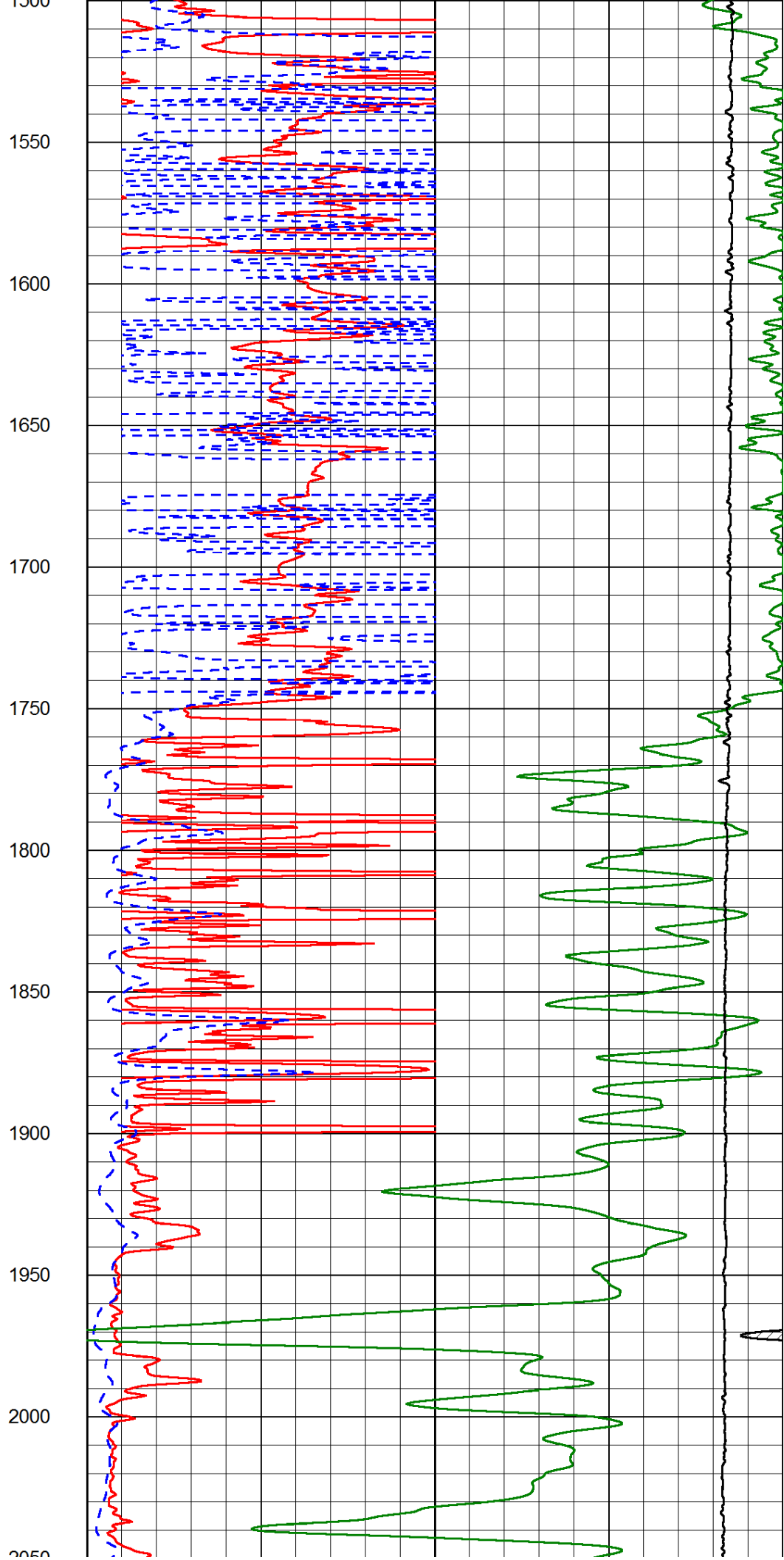
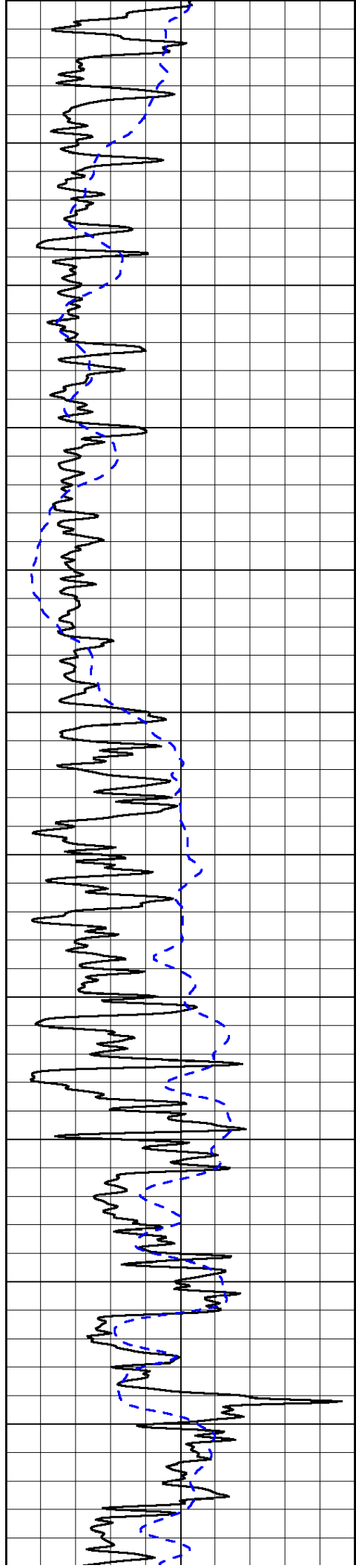
Comments

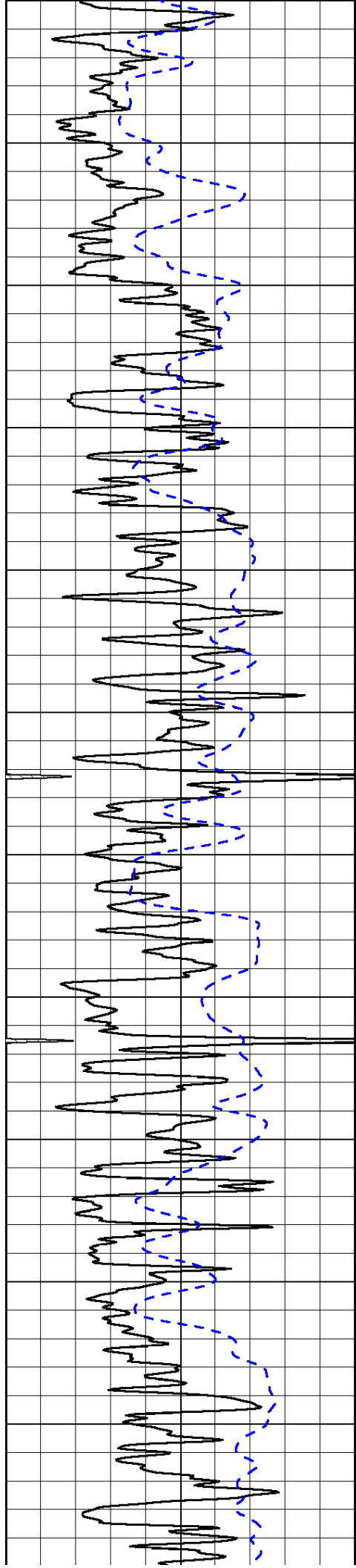
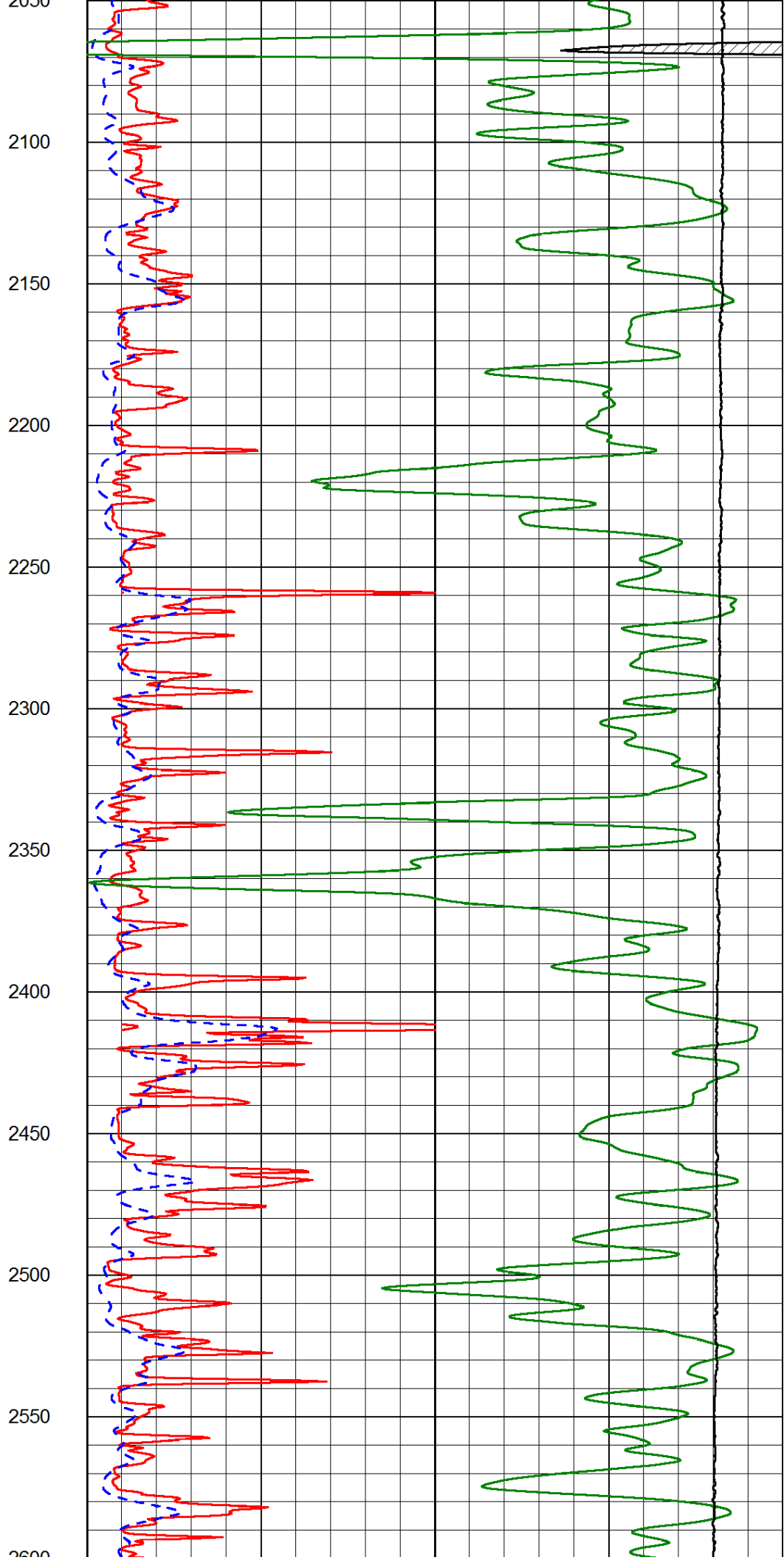
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(785) 625-3858

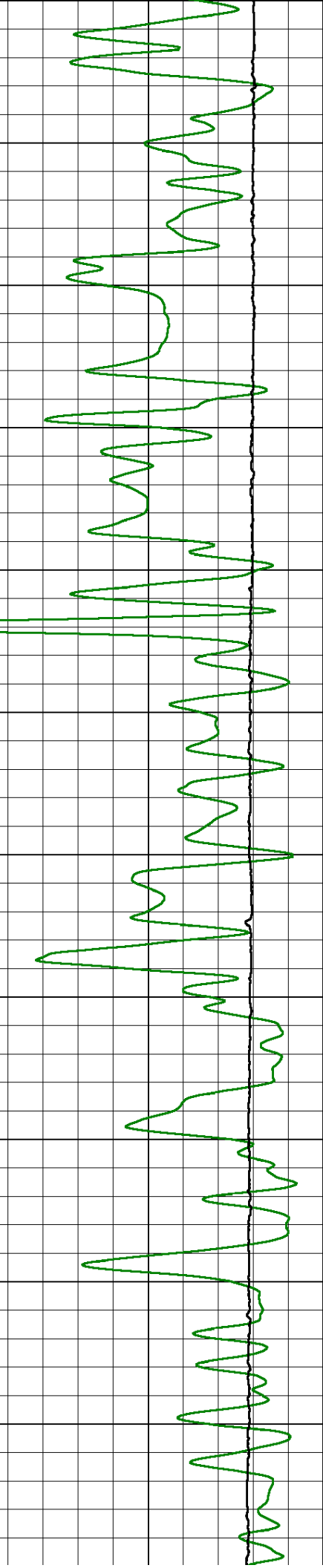
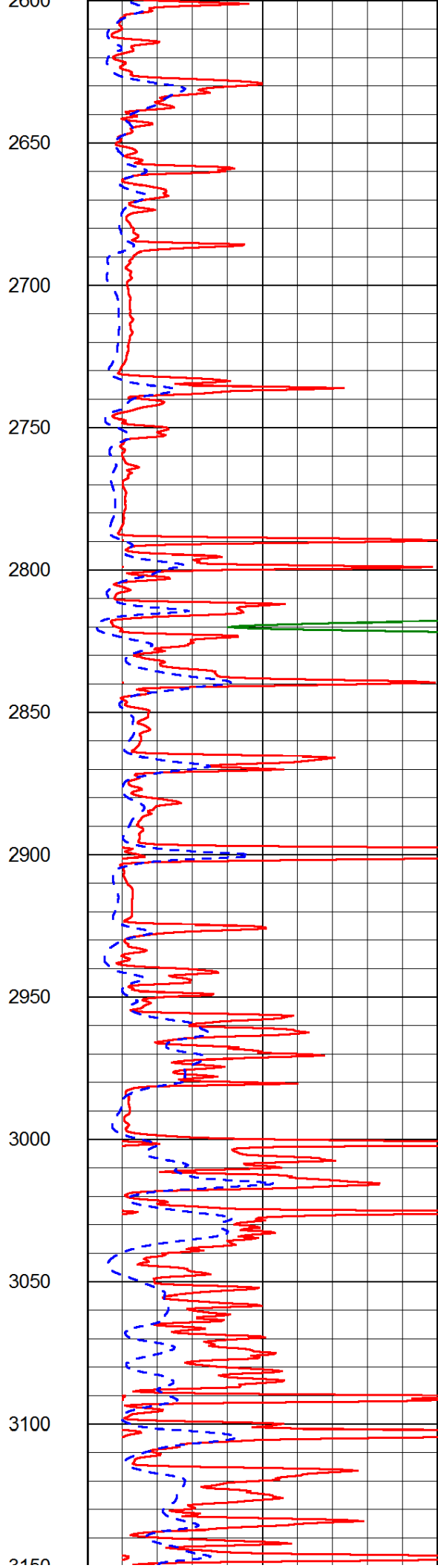
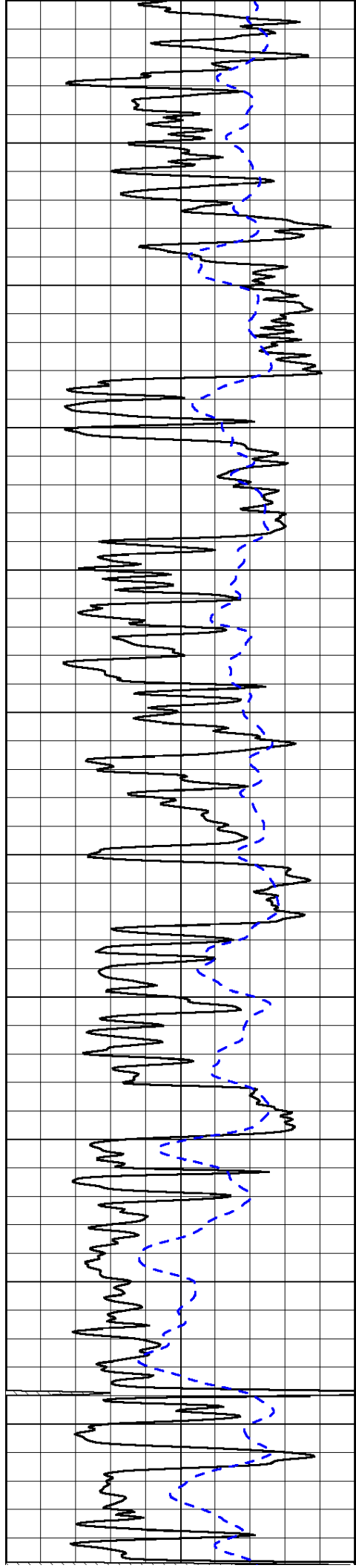
Rush Center KS, 12 E, 1/2 S, E Into

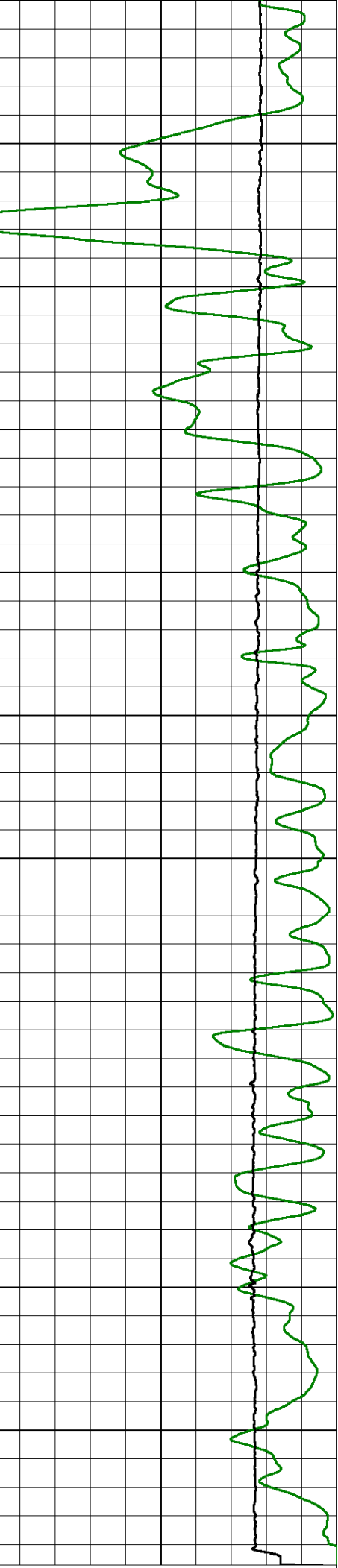
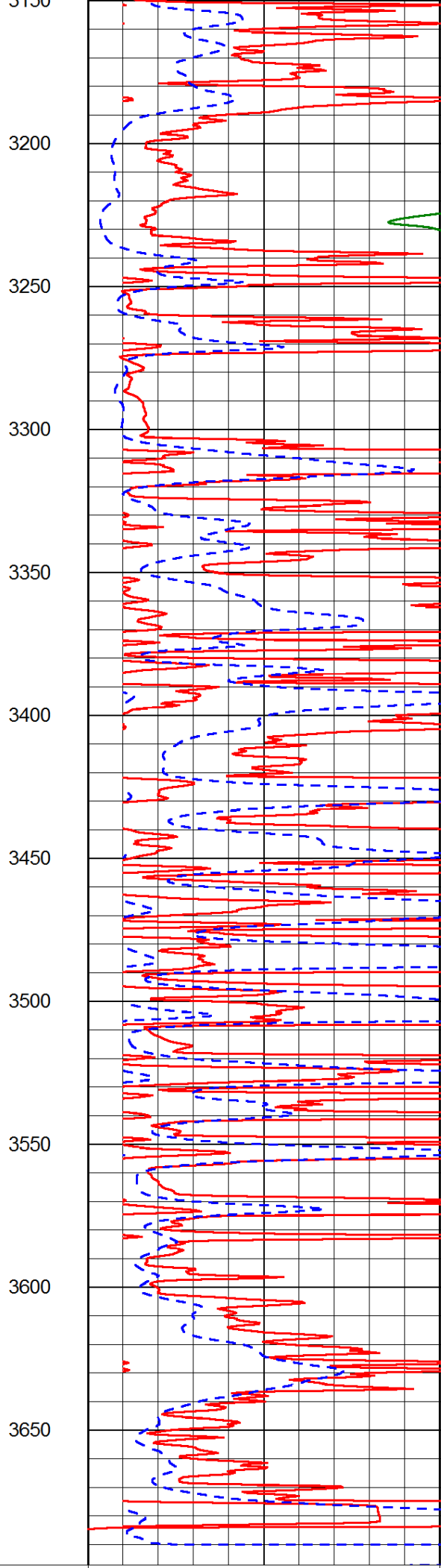
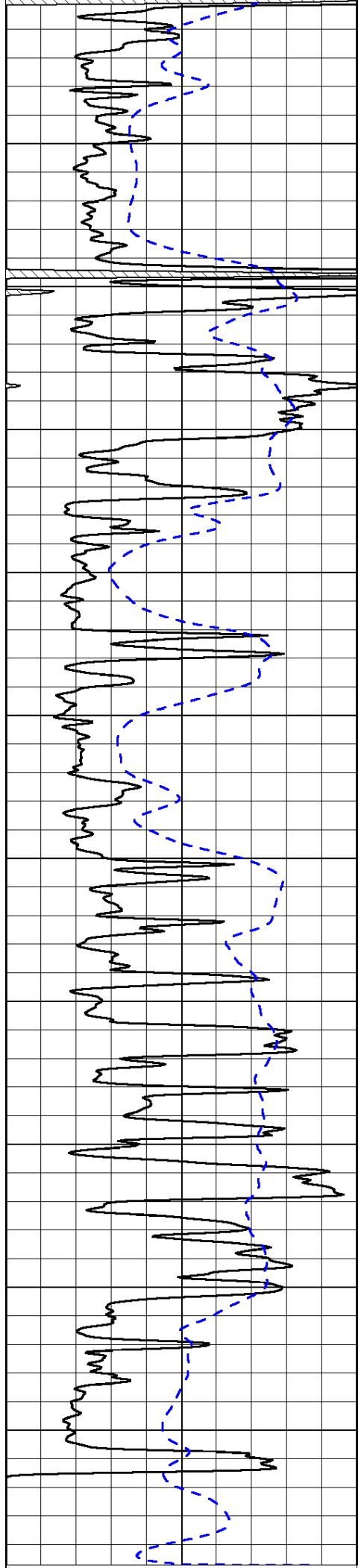
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Presentation Format: dil2in
Dataset Creation: Mon Dec 03 07:42:06 2012
Charted by: Depth in Feet scaled 1:600











0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

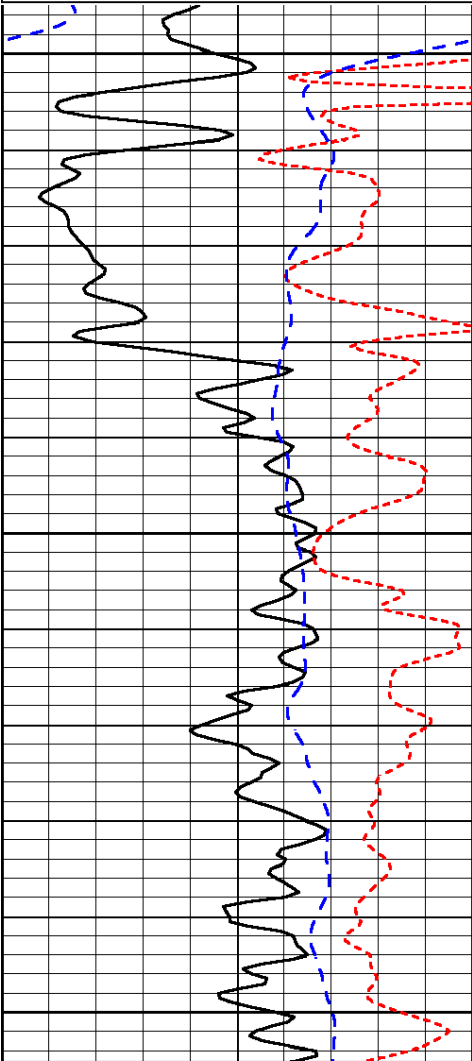
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0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File:	blackteahd.db
Dataset Pathname:	dil/btstk
Presentation Format:	dil
Dataset Creation:	Mon Dec 03 07:42:06 2012
Charted by:	Depth in Feet scaled 1:240

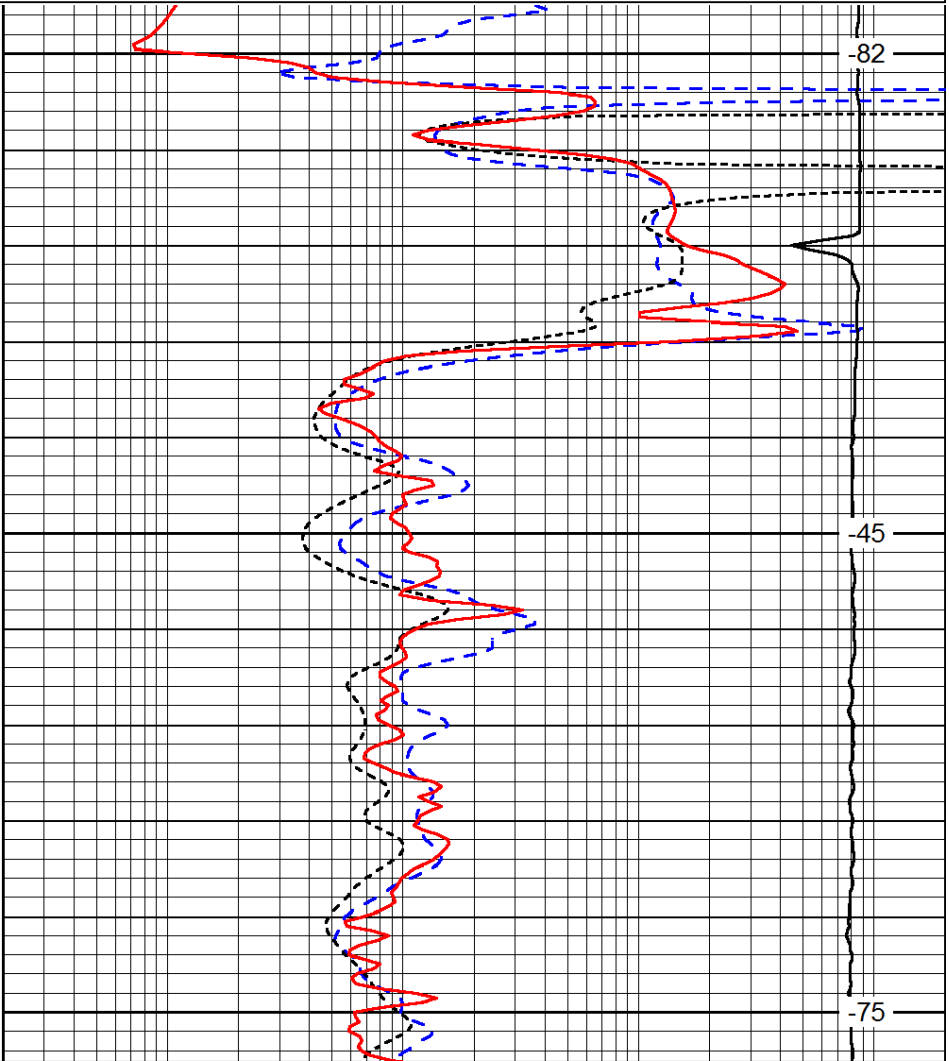
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

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)



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

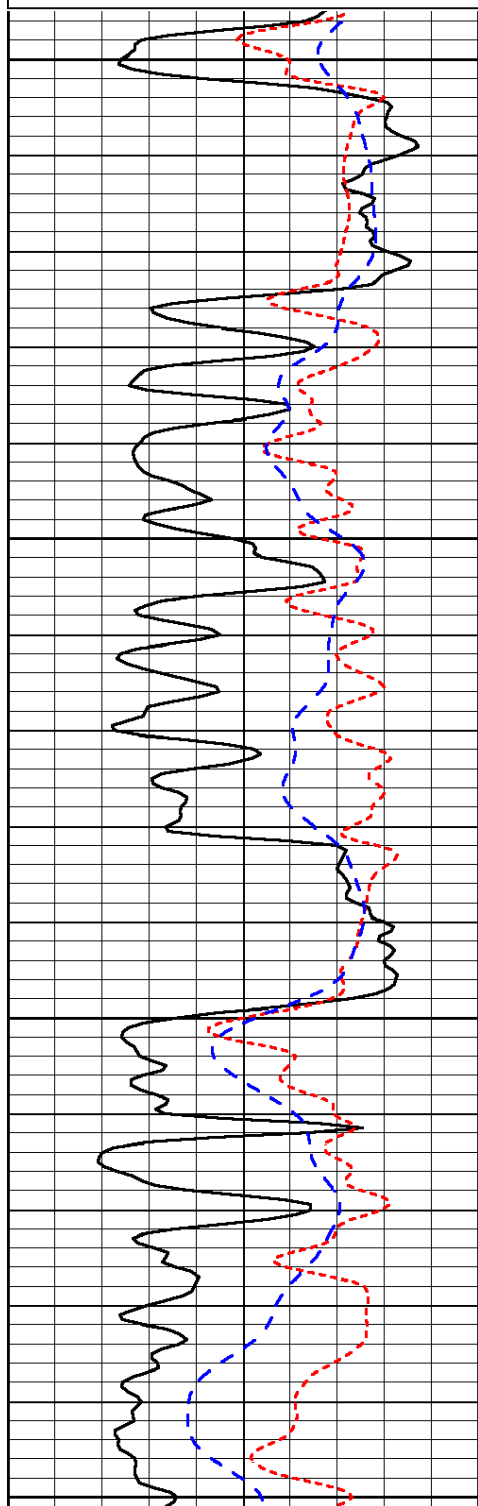


0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

Database File: blackteahd.db
Dataset Pathname: dil/btstk
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0.2	Medium Resistivity (Ohm-m)	2000
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10000	Line Tension (lb)	0

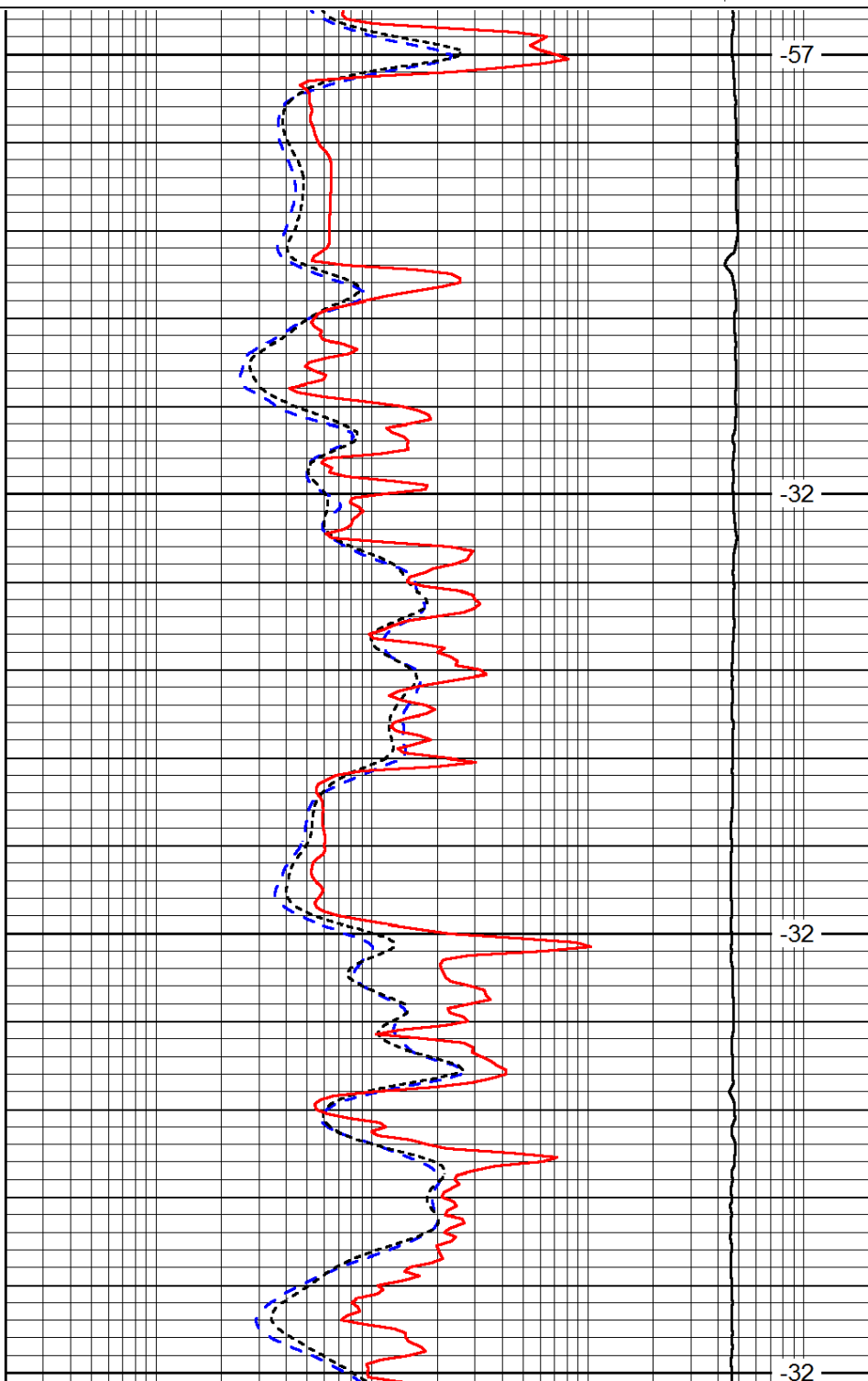


2900

2950

3000

3050

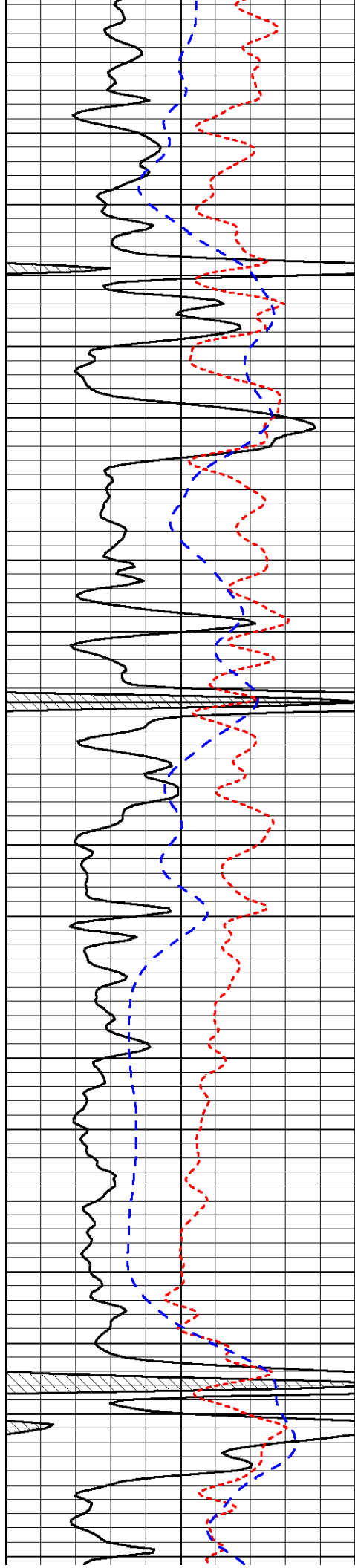


-57

-32

-32

-32

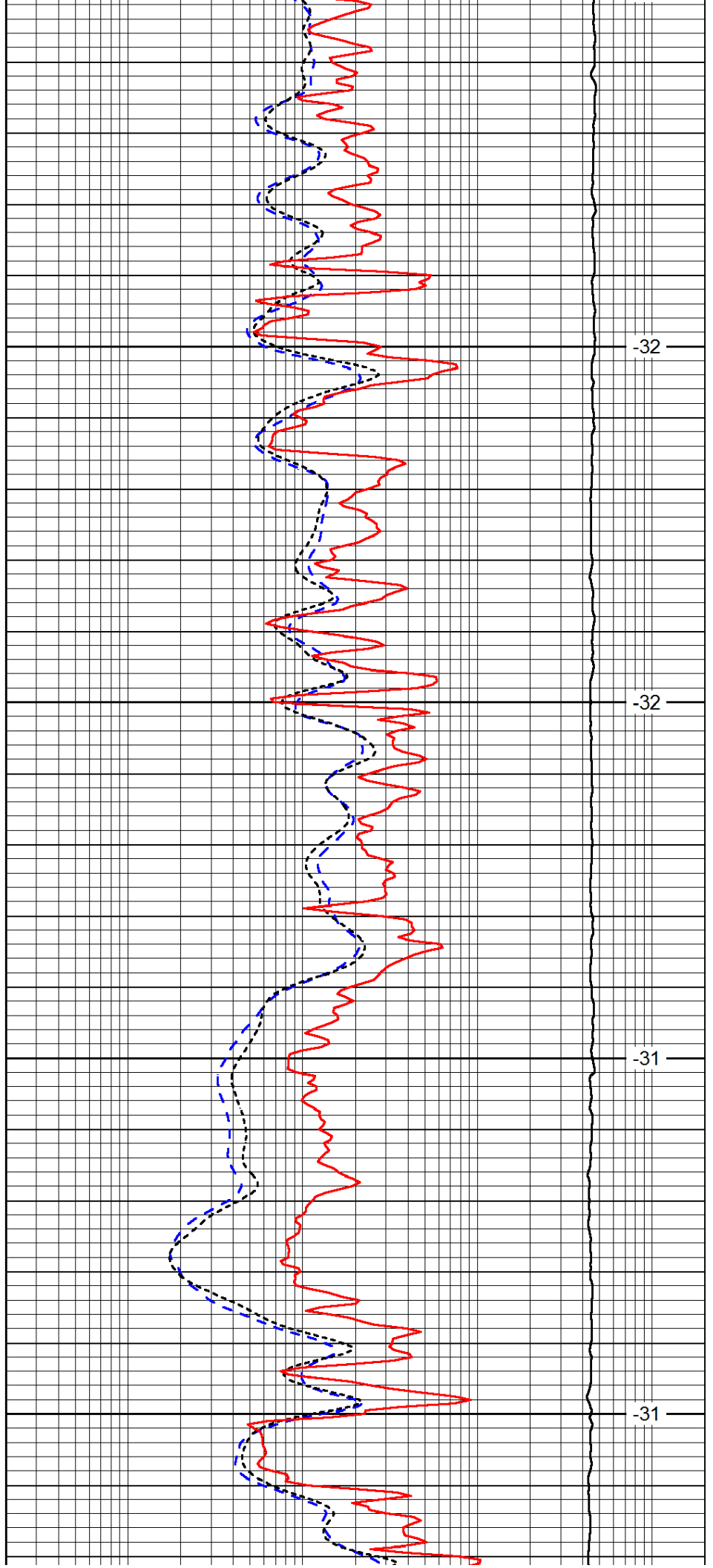


3100

3150

3200

3250

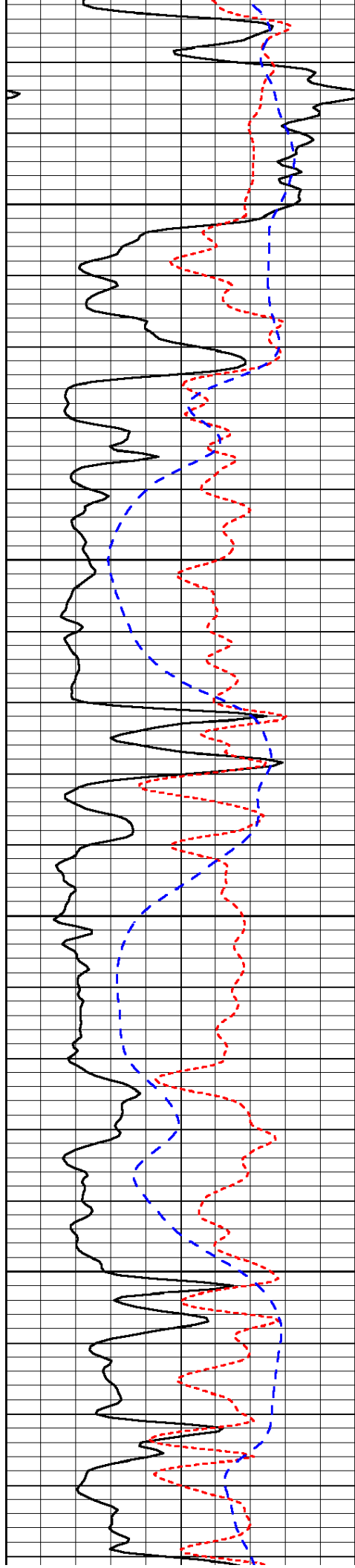


-32

-32

-31

-31

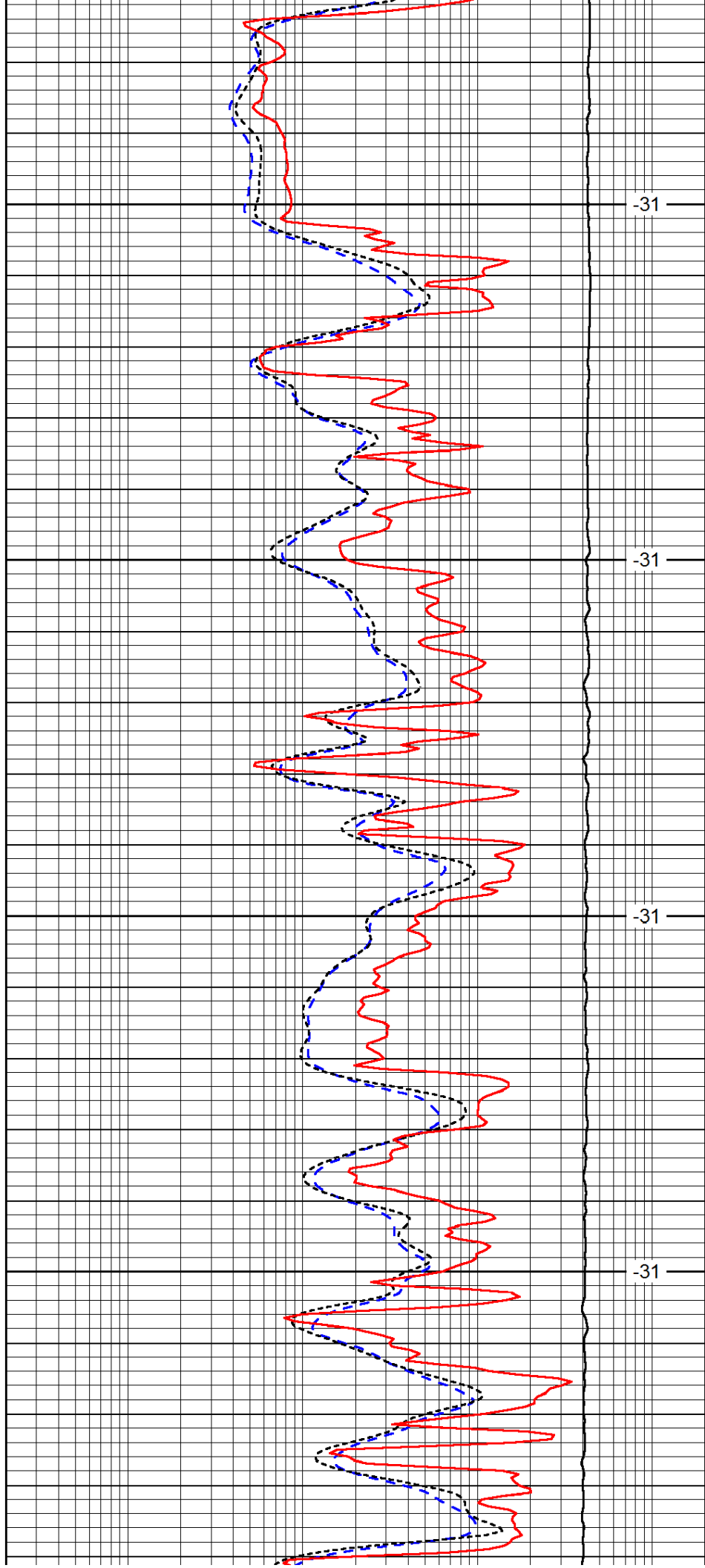


3300

3350

3400

3450

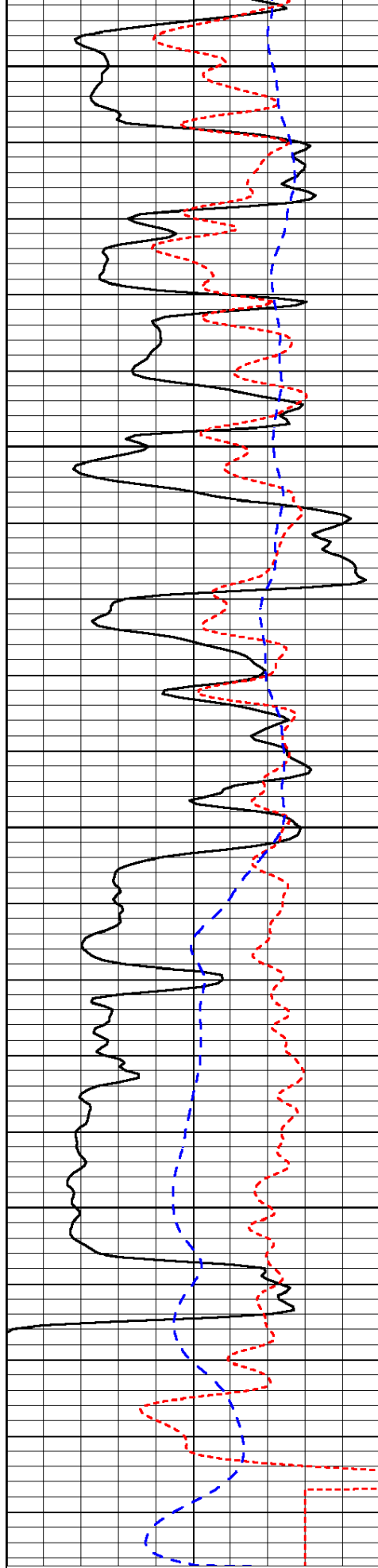


-31

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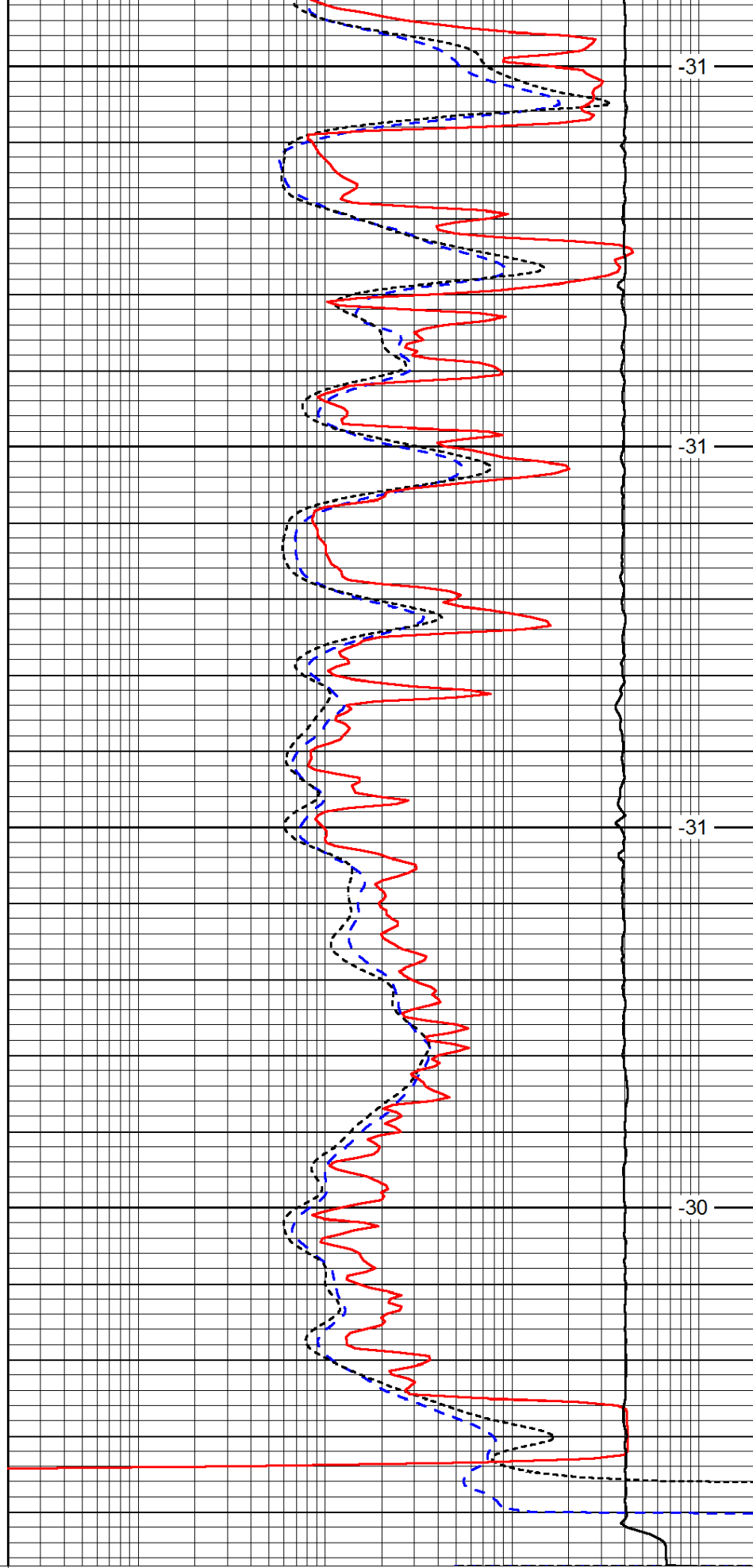
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-160	RXO/RT	40
-200	SP (mV)	0

3500

3550

3600

3650



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

-31

-31

-31

-30

	Line Tension (lb)		0
	10000		LSPD (ft/min)