



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-065-23,877-00-00

Company **Maralex Resources, Inc.**

Well **Baughman Trust No. 33-1**

Field **Unnamed**

County **Graham**

State

Kansas

Location **660' FSL & 330' FWL**

Sec: 33

Twp: 6s

Rge: 23w

Other Services
CNL/CDL
BHCS

Permanent Datum **Ground Level**

Elevation **2455**

Log Measured From **Kelly Bushing**

5 Ft. Above Perm. Datum

K.B. 2460
D.F. 2455
G.L. 2455

Drilling Measured From

Kelly Bushing

5 Ft. Above Perm. Datum

K.B. 2460
D.F. 2455
G.L. 2455

Date

11/20/2012

Run Number

One

Depth Driller

3970

Depth Logger

3972

Bottom Logged Interval

3971

Top Log Interval

300

Casing Driller

8.625 @ 321

Casing Logger

319

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1000

Density / Viscosity

9.2 53

pH / Fluid Loss

9.5 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

3.25 @ 64

Rmf @ Meas. Temp

2.44 @ 64

Rmc @ Meas. Temp

4.39 @ 64

Source of Rmf / Rmc

Charts

Rm @ BHT

1.80 @ 116

Operating Rig Time

4 Hours

Max Rec. Temp. F

116

Equipment Number

15

Location

Hays

Recorded By

D.Kerr

Witnessed By

Clayton Erickson

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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

Hill City, North to Y Rd.,
3 West, North Into

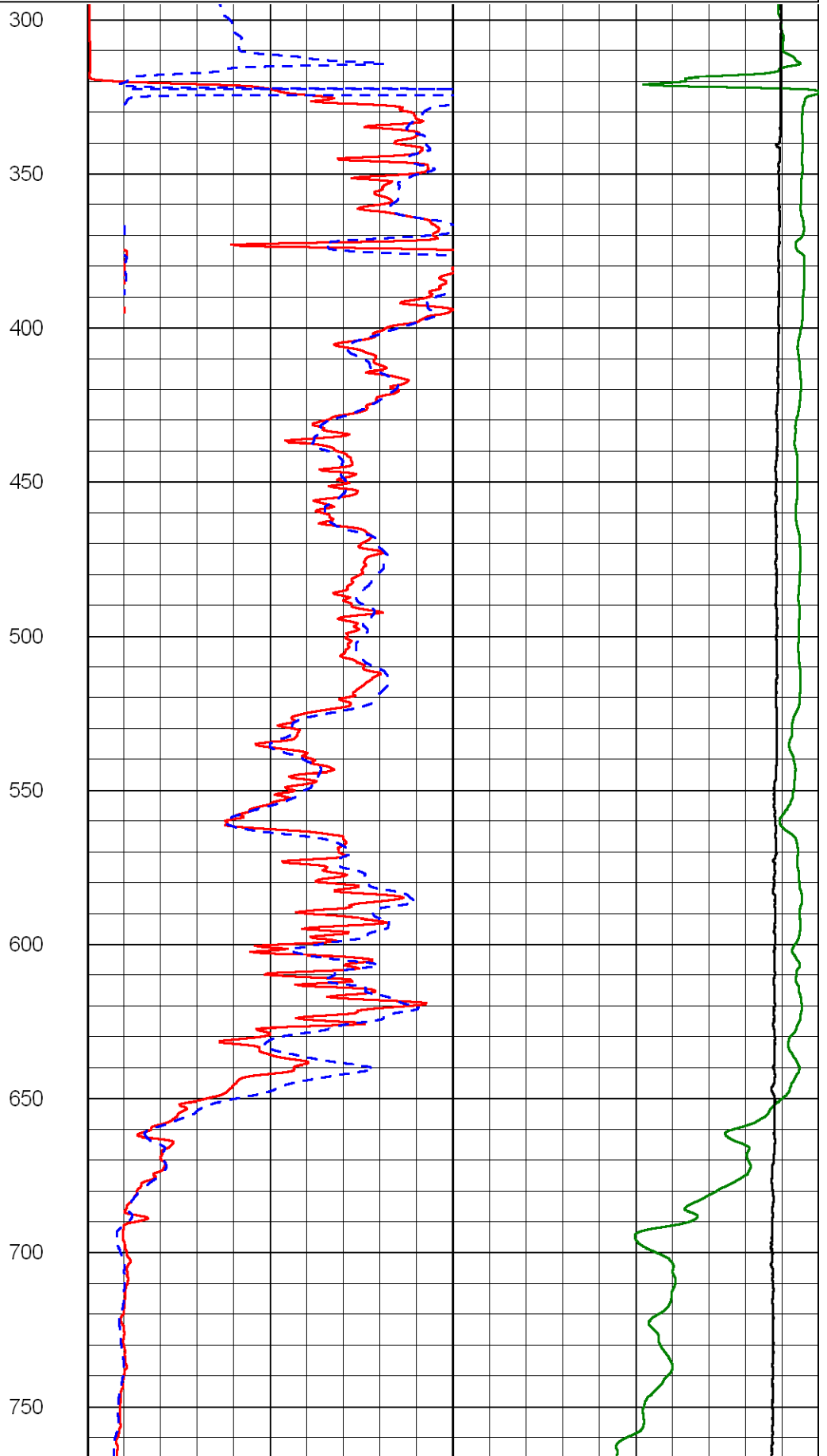
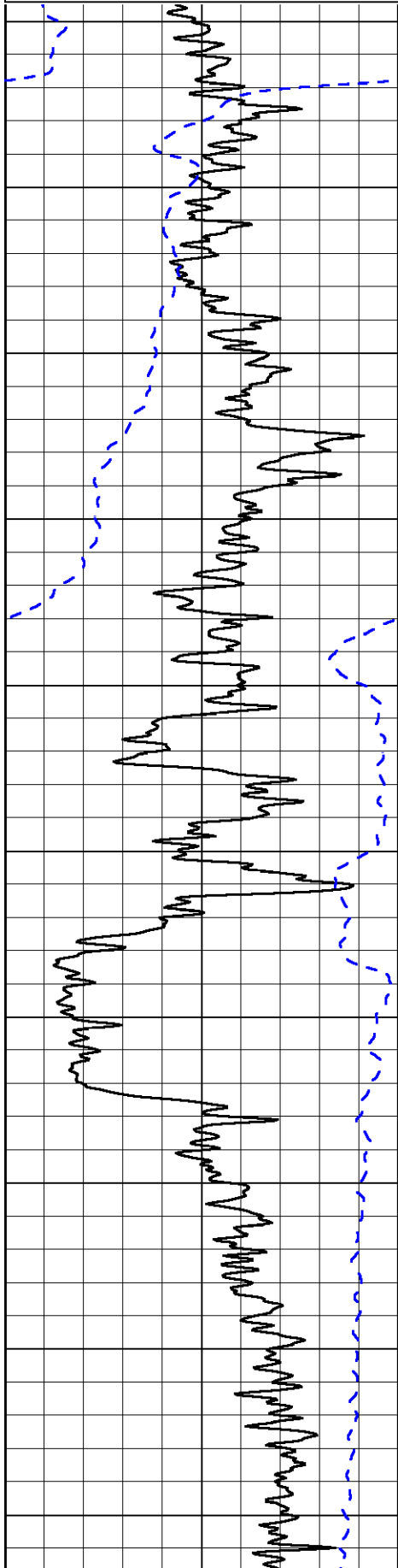
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Presentation Format: dil2in
Dataset Creation: Tue Nov 20 11:09:22 2012
Charted by: Depth in Feet scaled 1:600

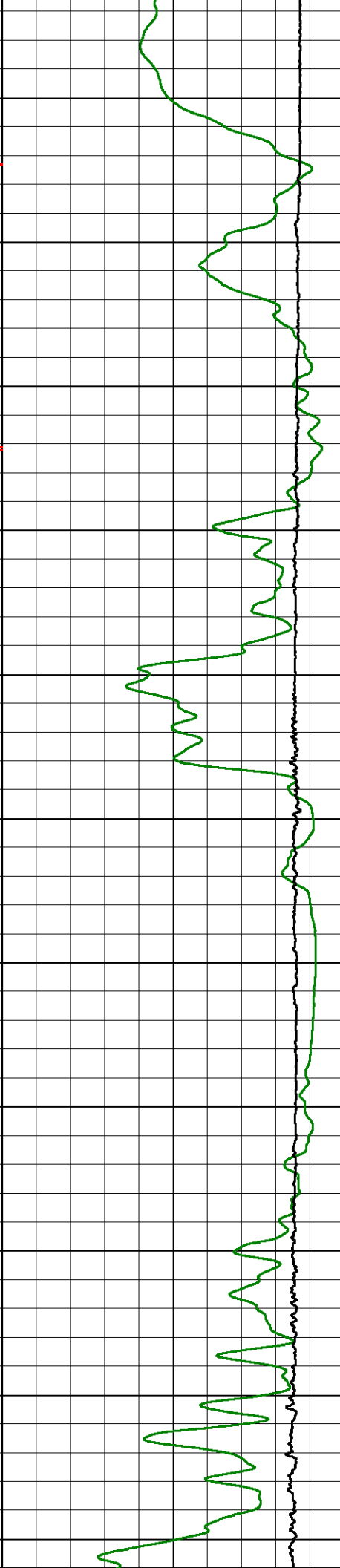
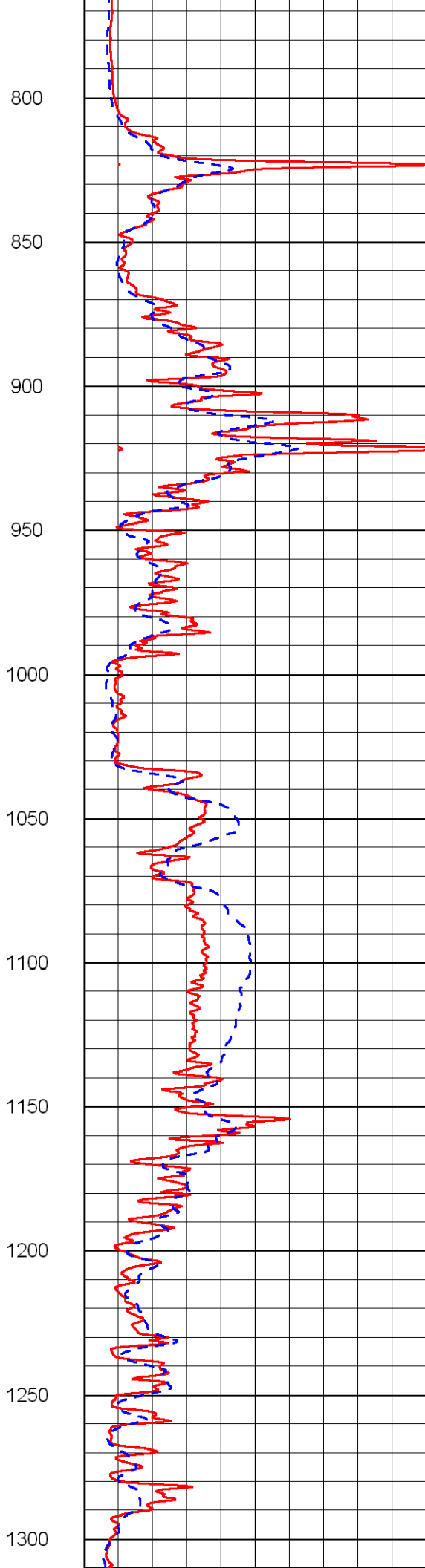
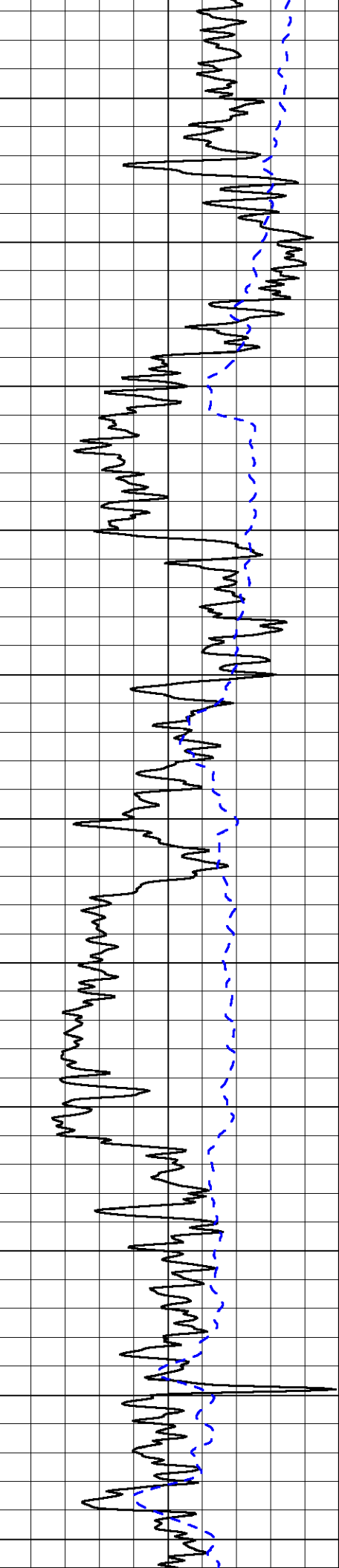
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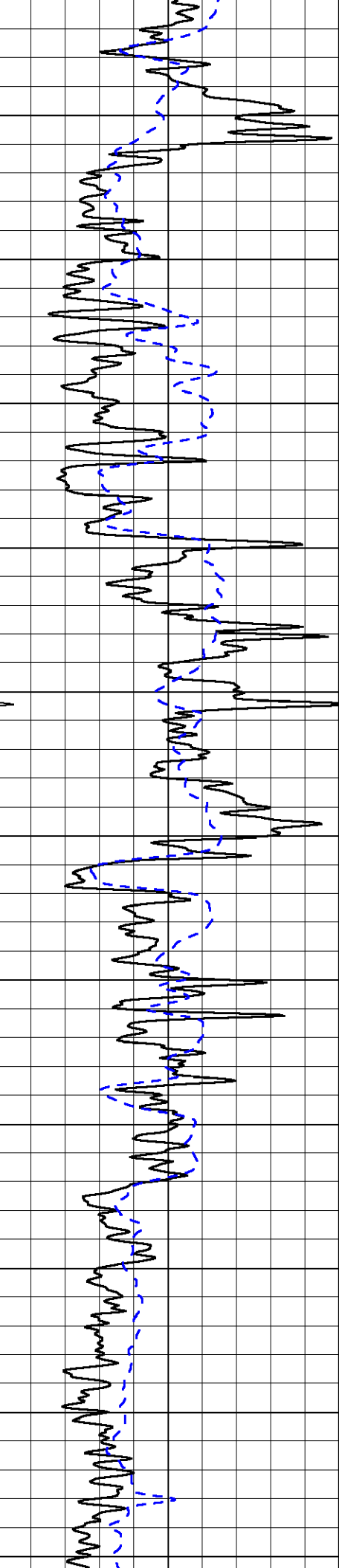
0	Shallow Resistivity	50
0	Deep Resistivity	50

1000	Conductivity	0
15000	Line Tension	0

50	Shallow Resistivity	500
50	Deep Resistivity	500







1350

1400

1450

1500

1550

1600

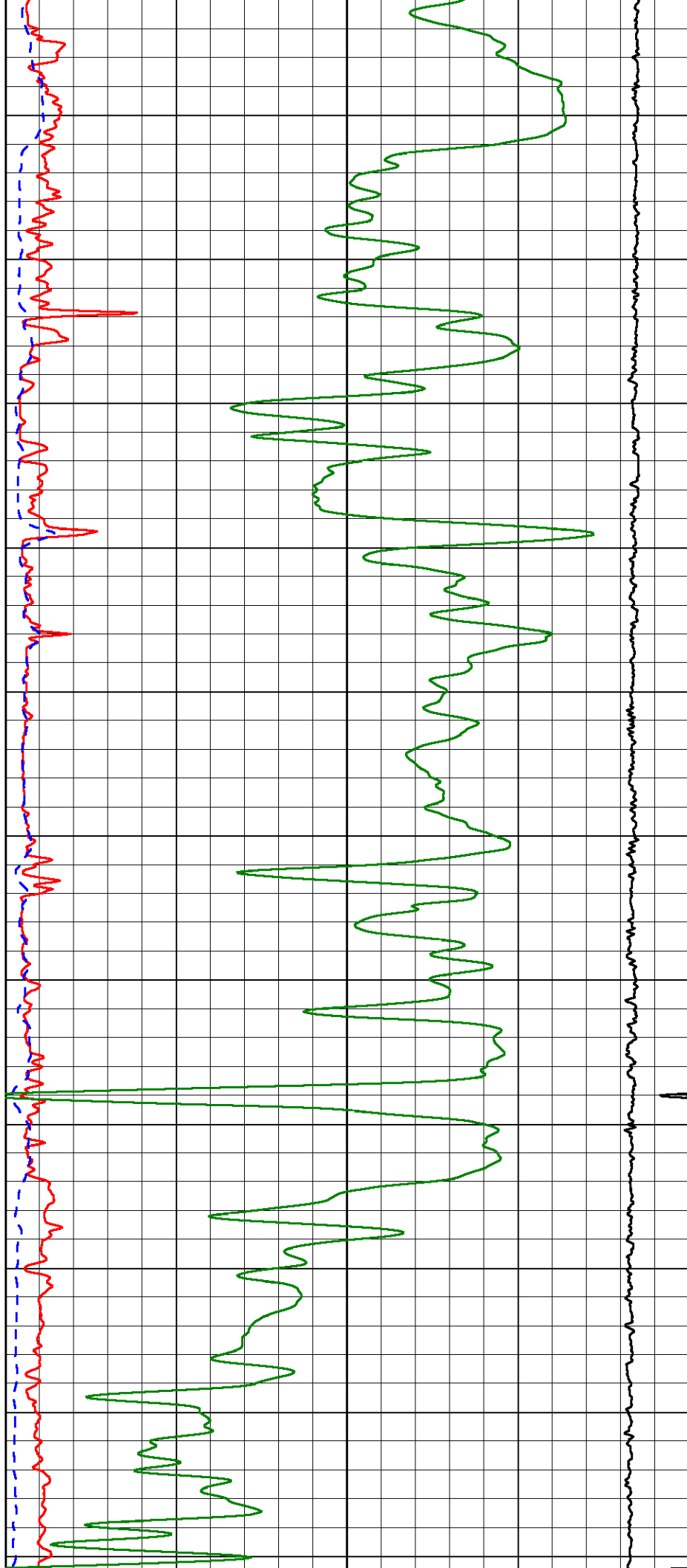
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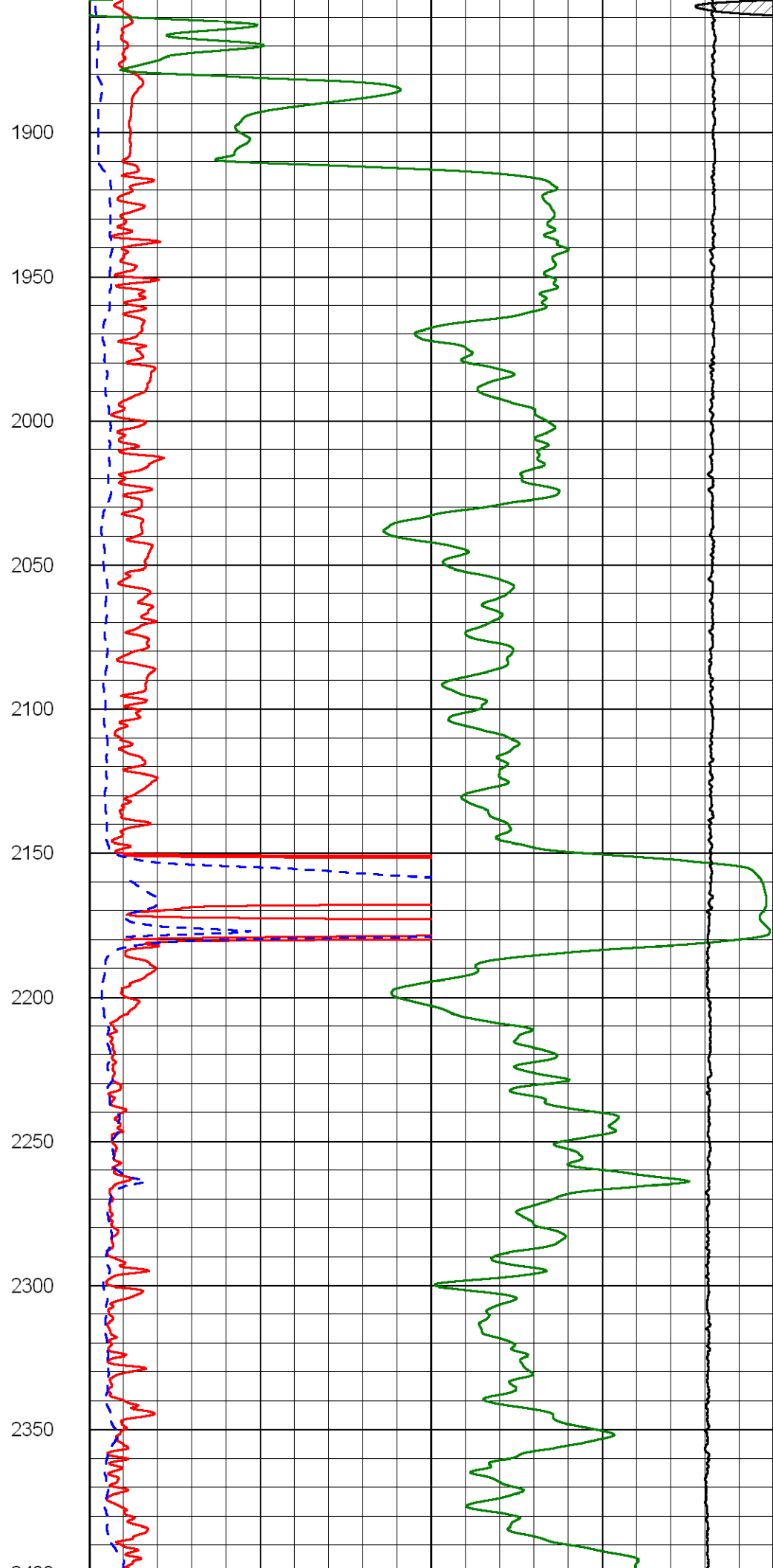
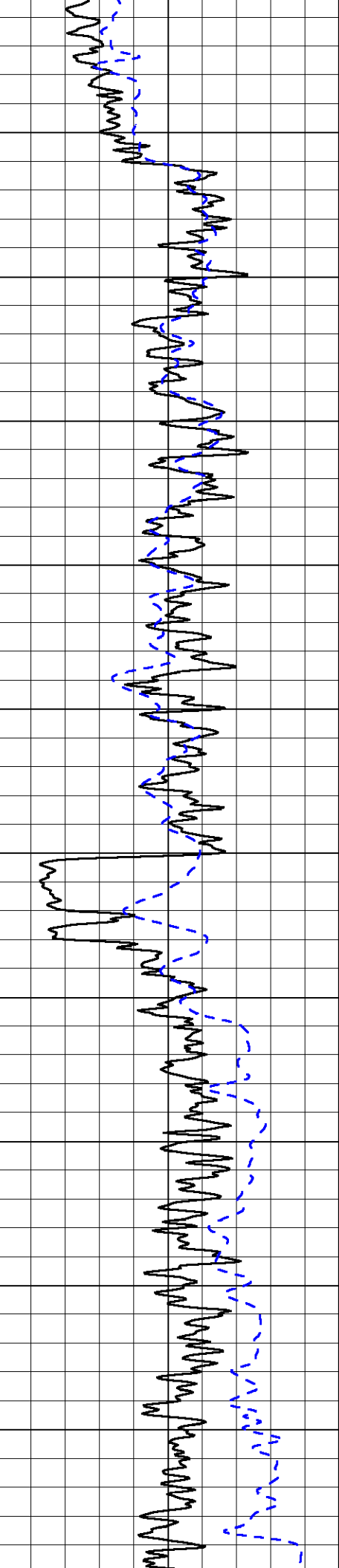
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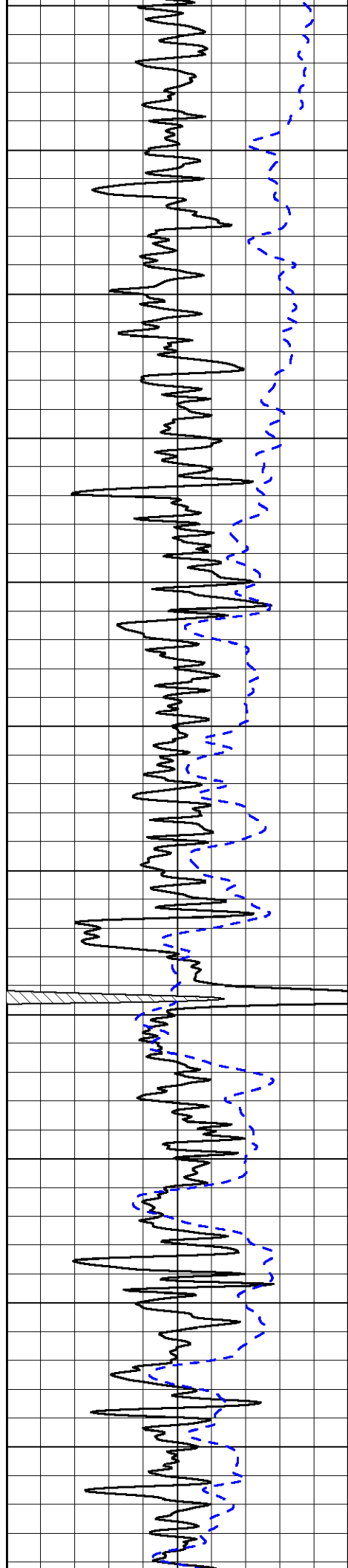
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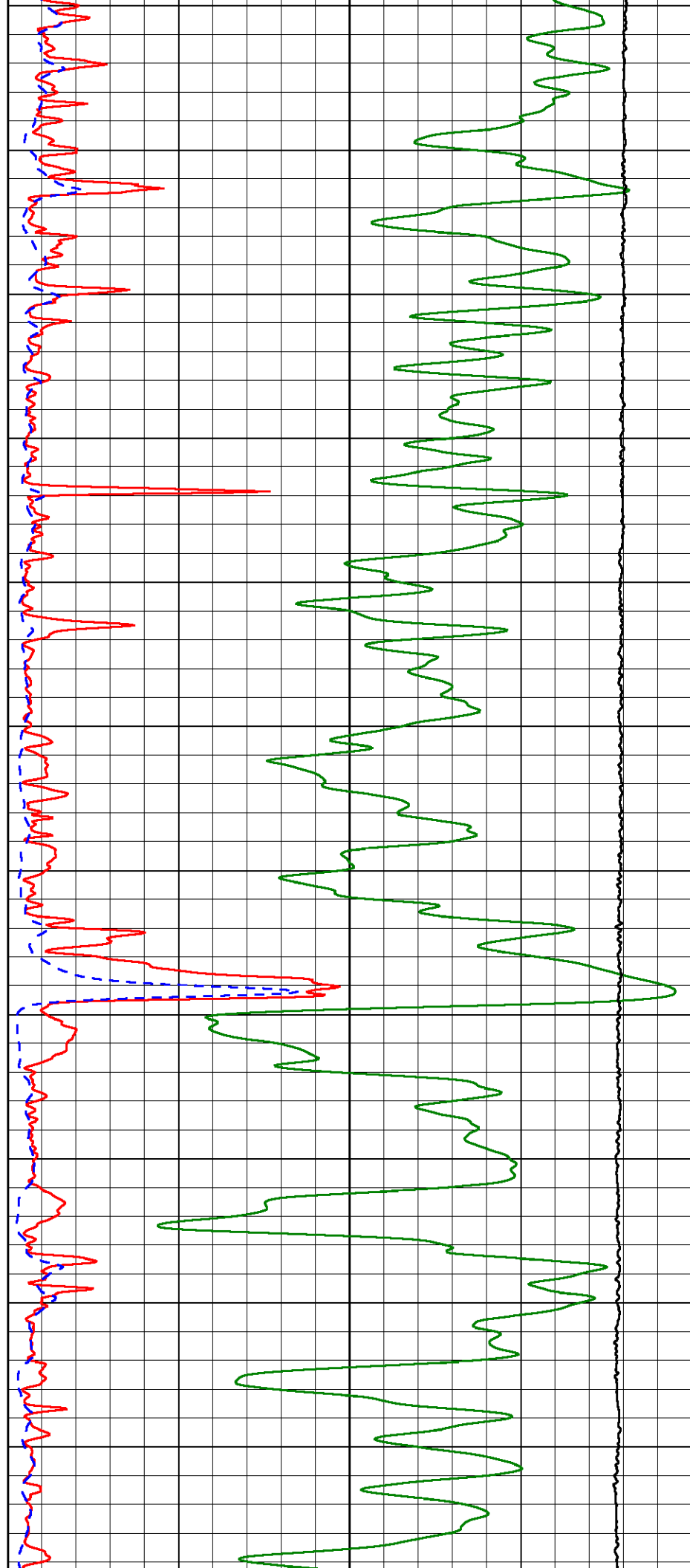
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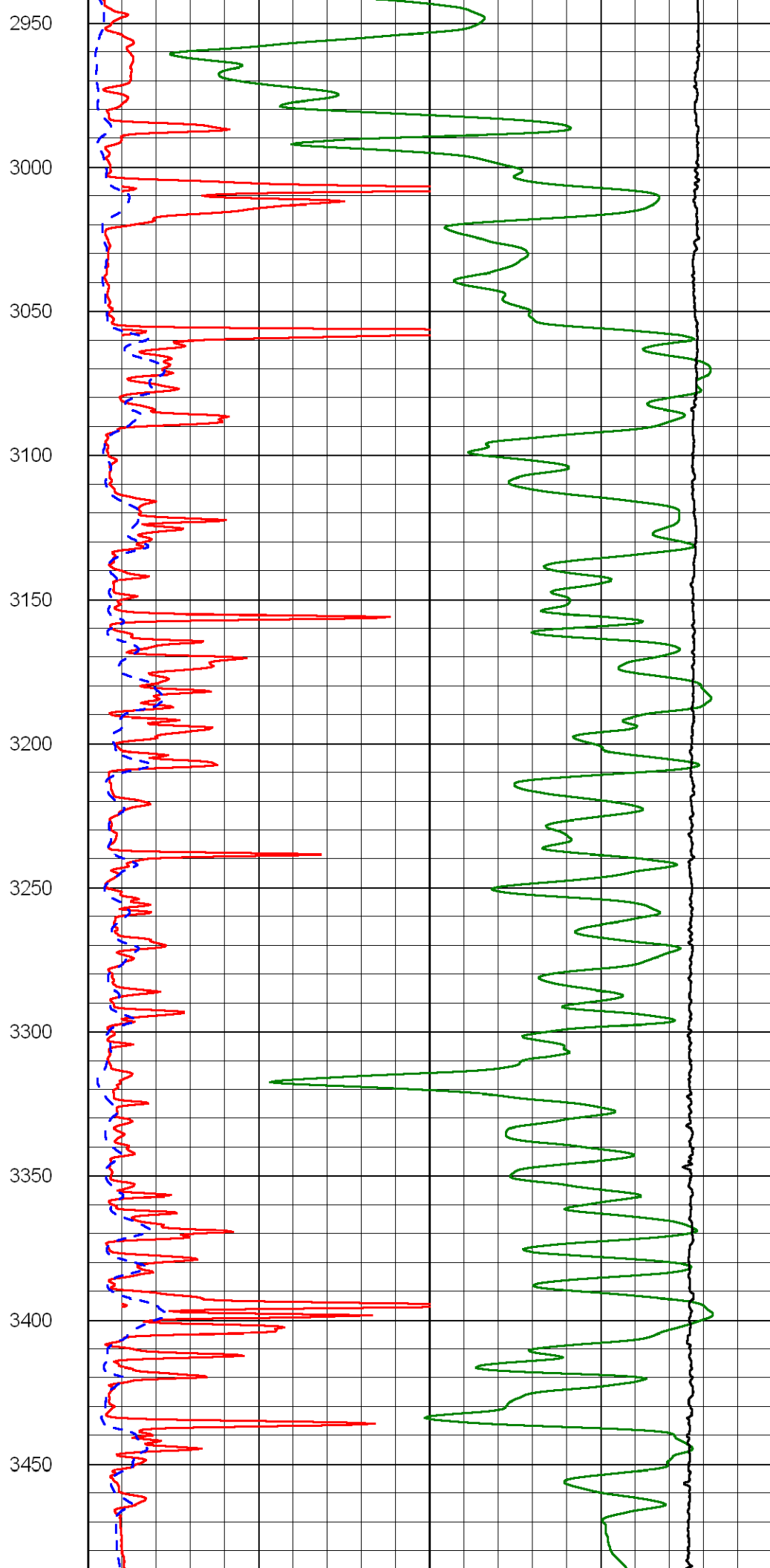
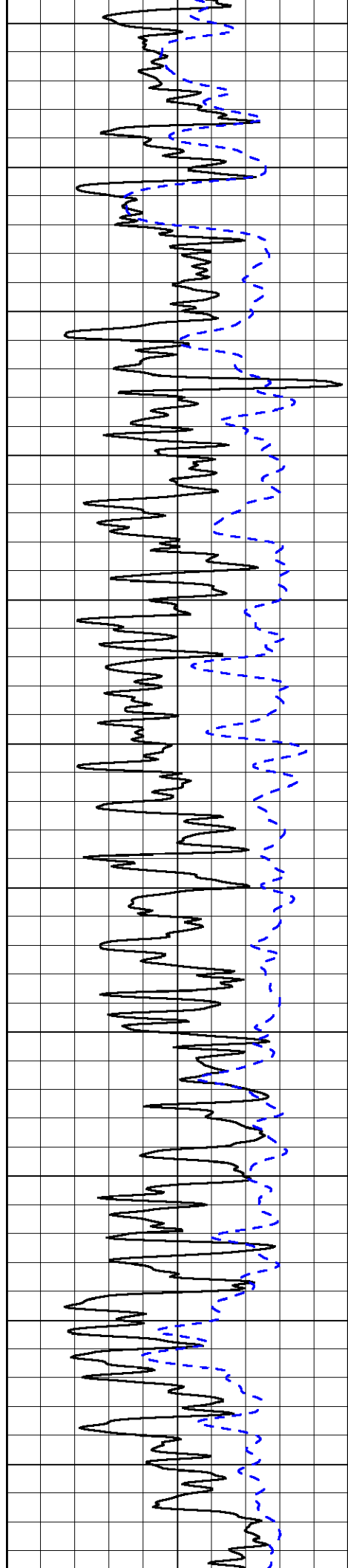


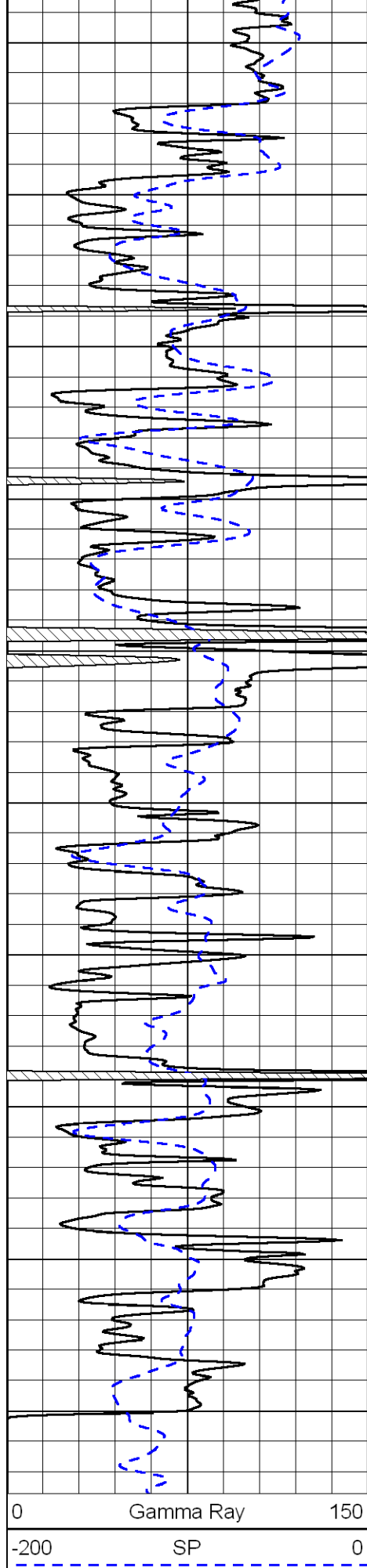




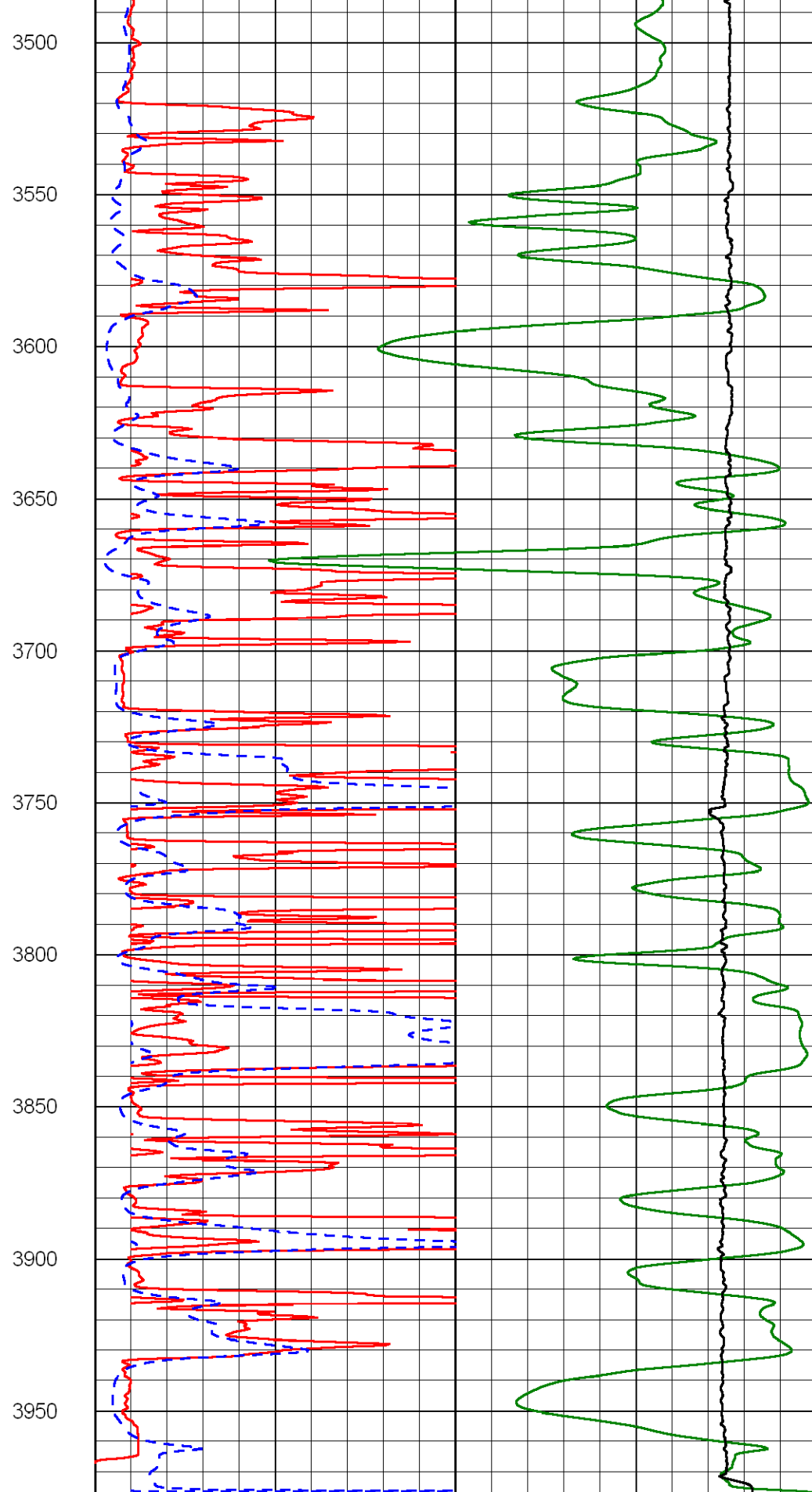
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900







0 Gamma Ray 150
-200 SP 0



3500
3550
3600
3650
3700
3750
3800
3850
3900
3950

0 Shallow Resistivity 50
0 Deep Resistivity 50

1000 Conductivity 0
15000 Line Tension 0

50 Shallow Resistivity 500

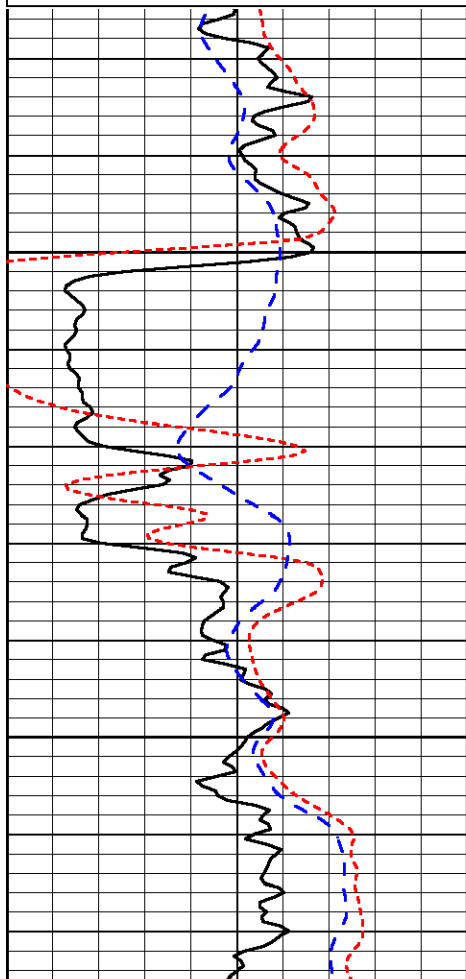
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50	Deep Resistivity	500

Database File: maralex_baughman_33_1hd.db
Dataset Pathname: DIL/marastk
Presentation Format: dil
Dataset Creation: Tue Nov 20 11:09:22 2012
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

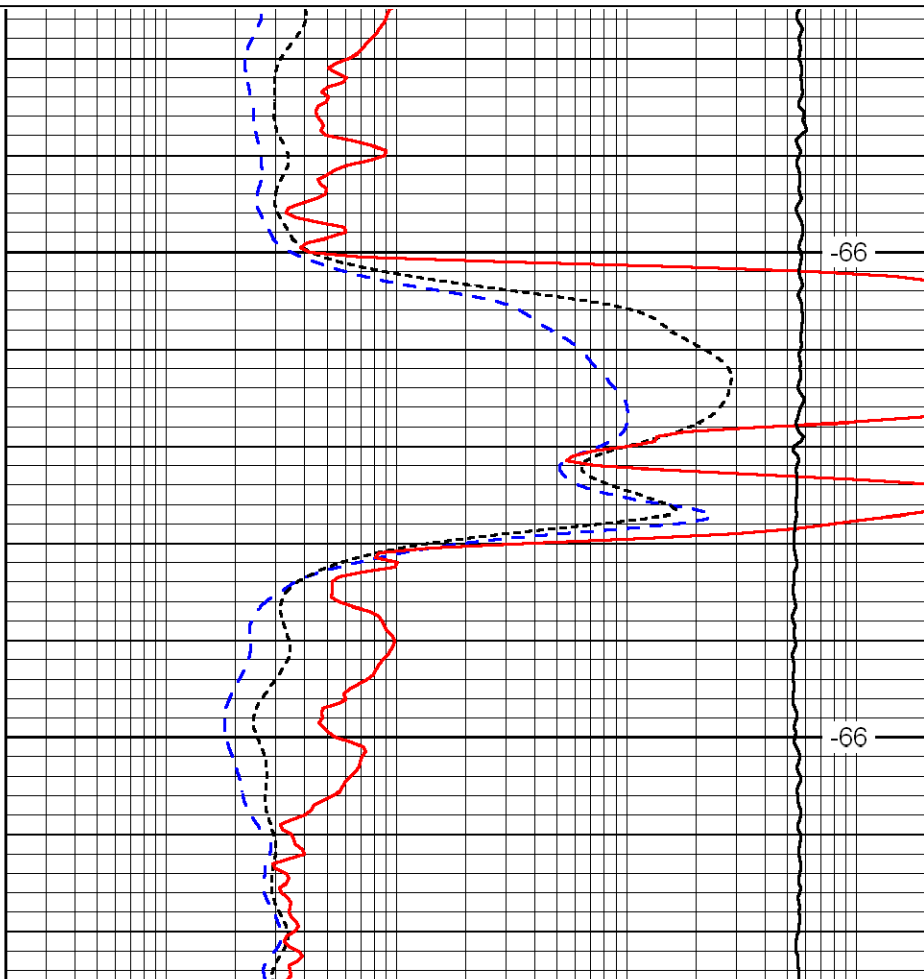
LSPD



2150

2200

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



-66

-66

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

Database File: maralex_baughman_33_1hd.db
Dataset Pathname: DIL/marastk
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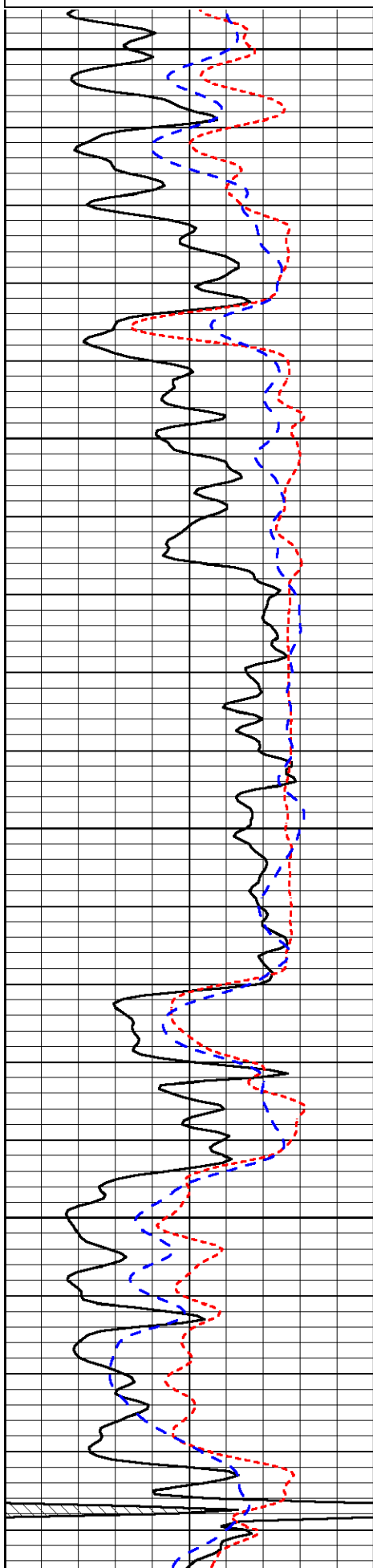
0	Gamma Ray	150
-160	RXO/RT	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000

-200 SP 0

0.2 Shallow Resistivity 2000
10000 Line Tension 0

LSPD

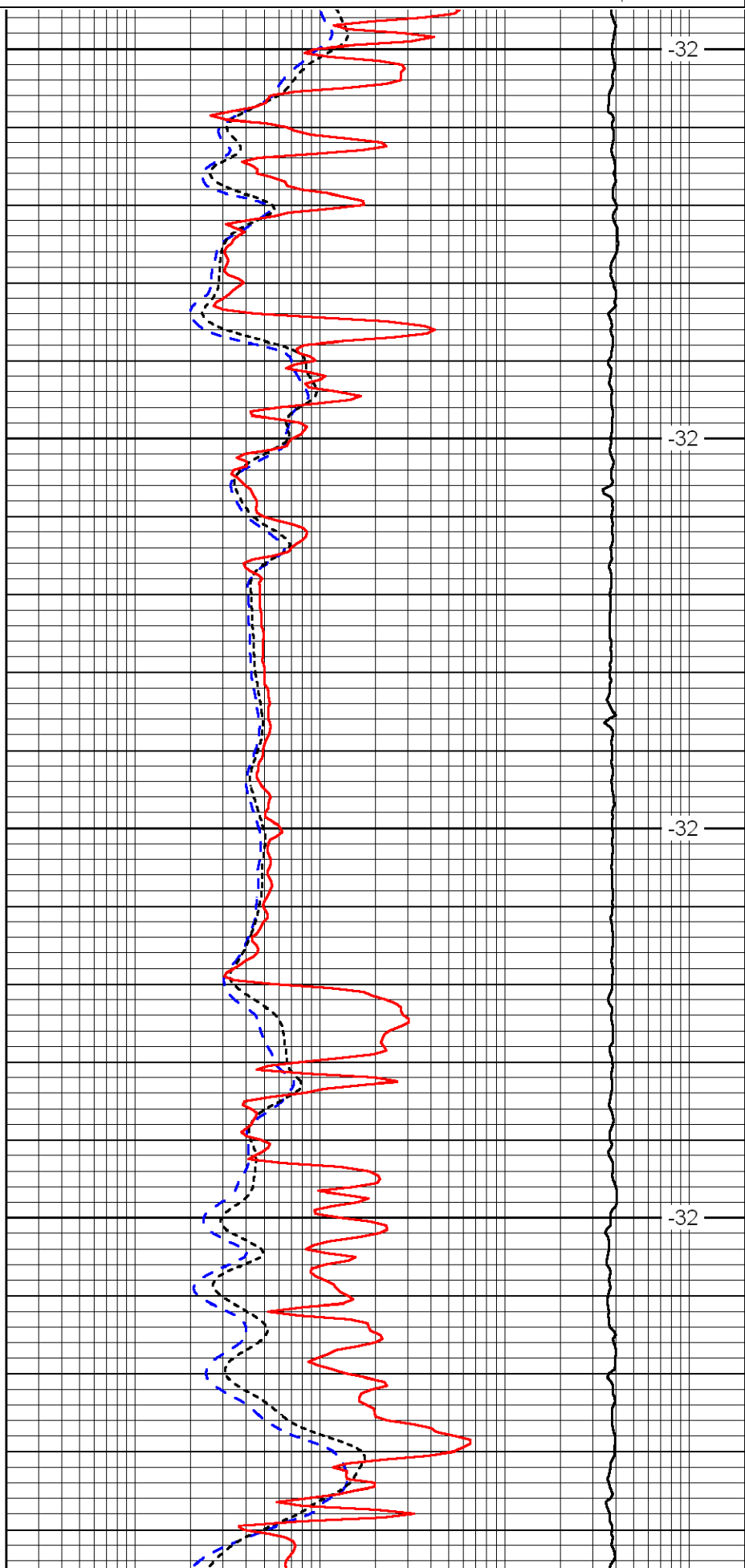


3400

3450

3500

3550

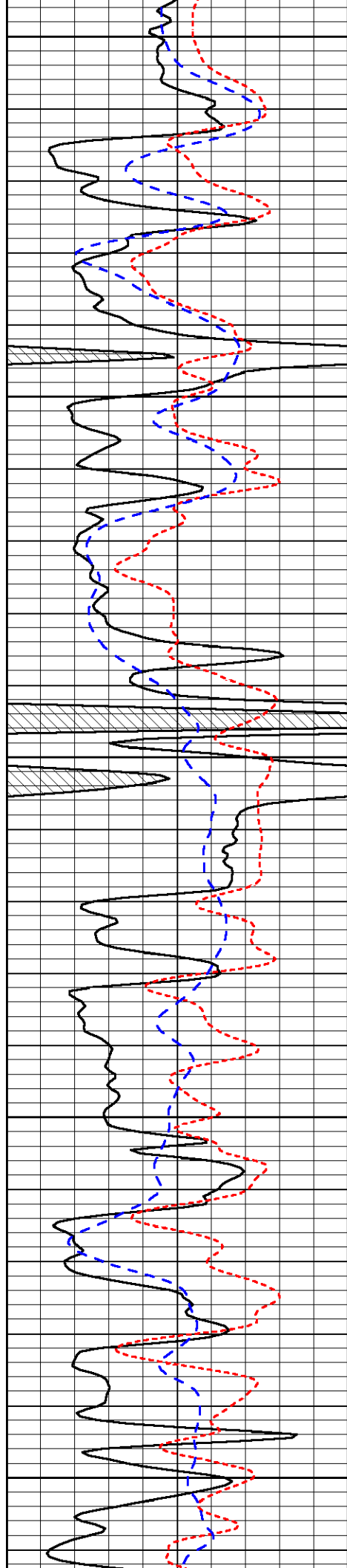


-32

-32

-32

-32



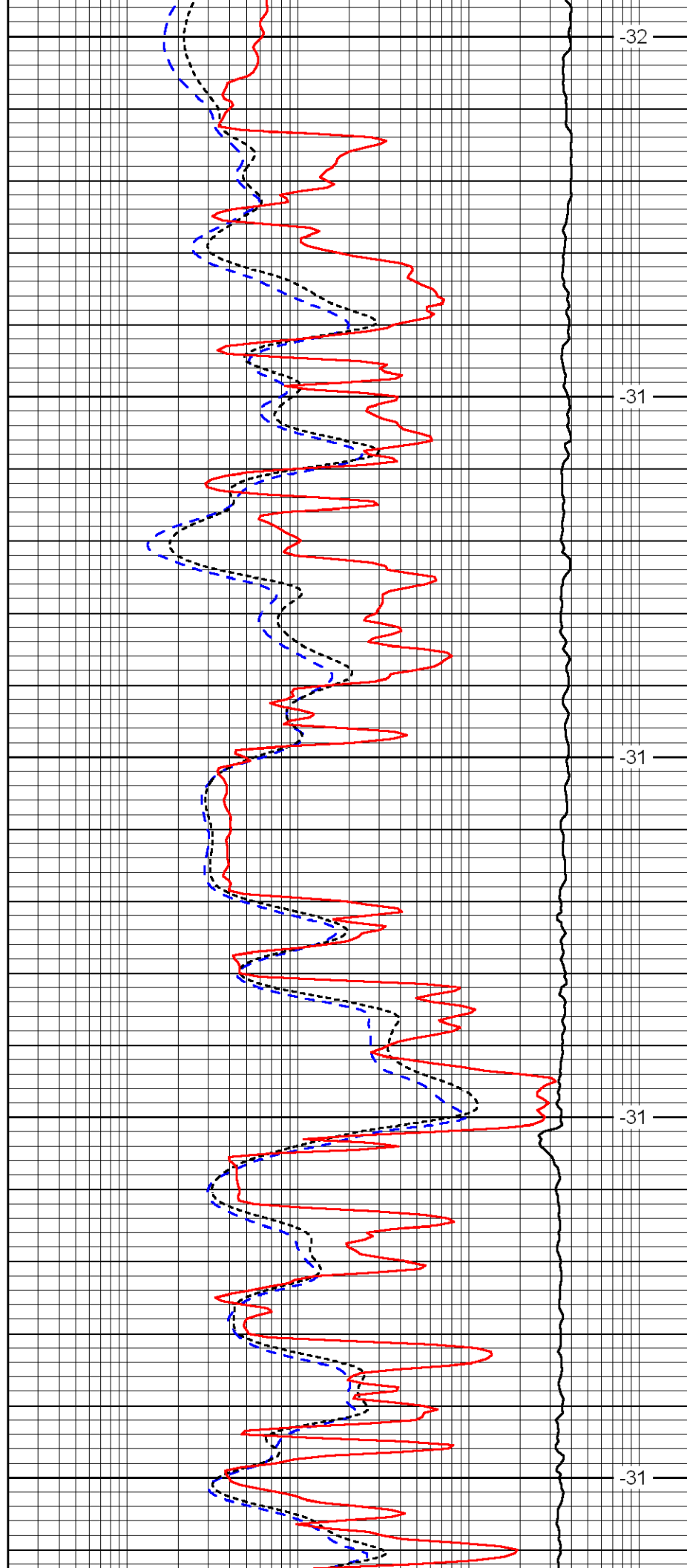
3600

3650

3700

3750

3800



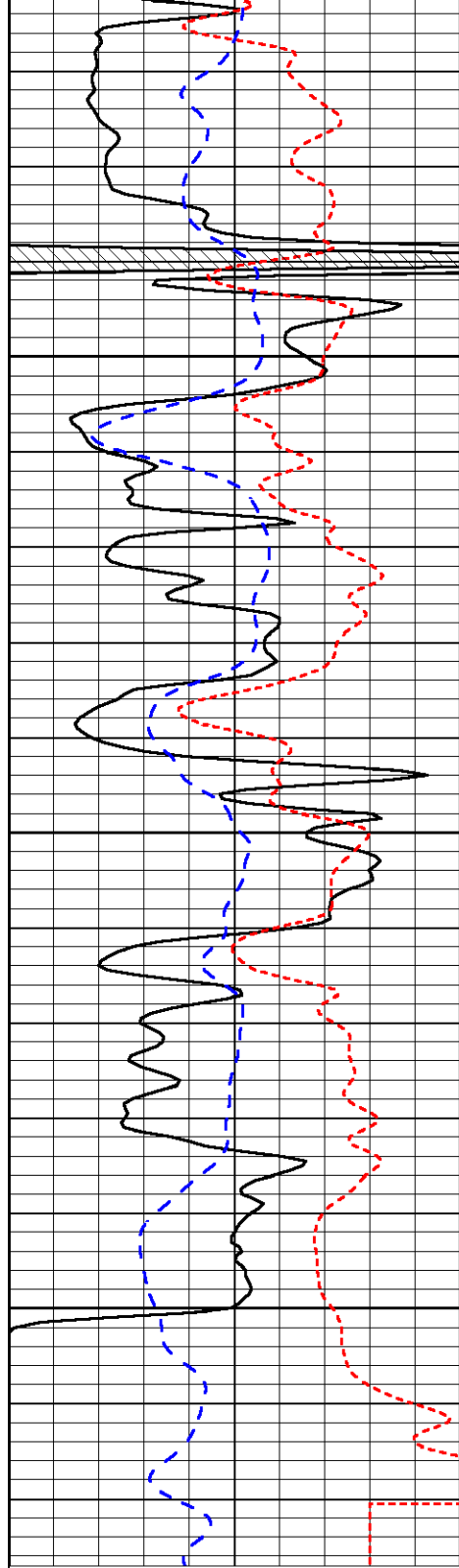
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-31

-31

-31

-31

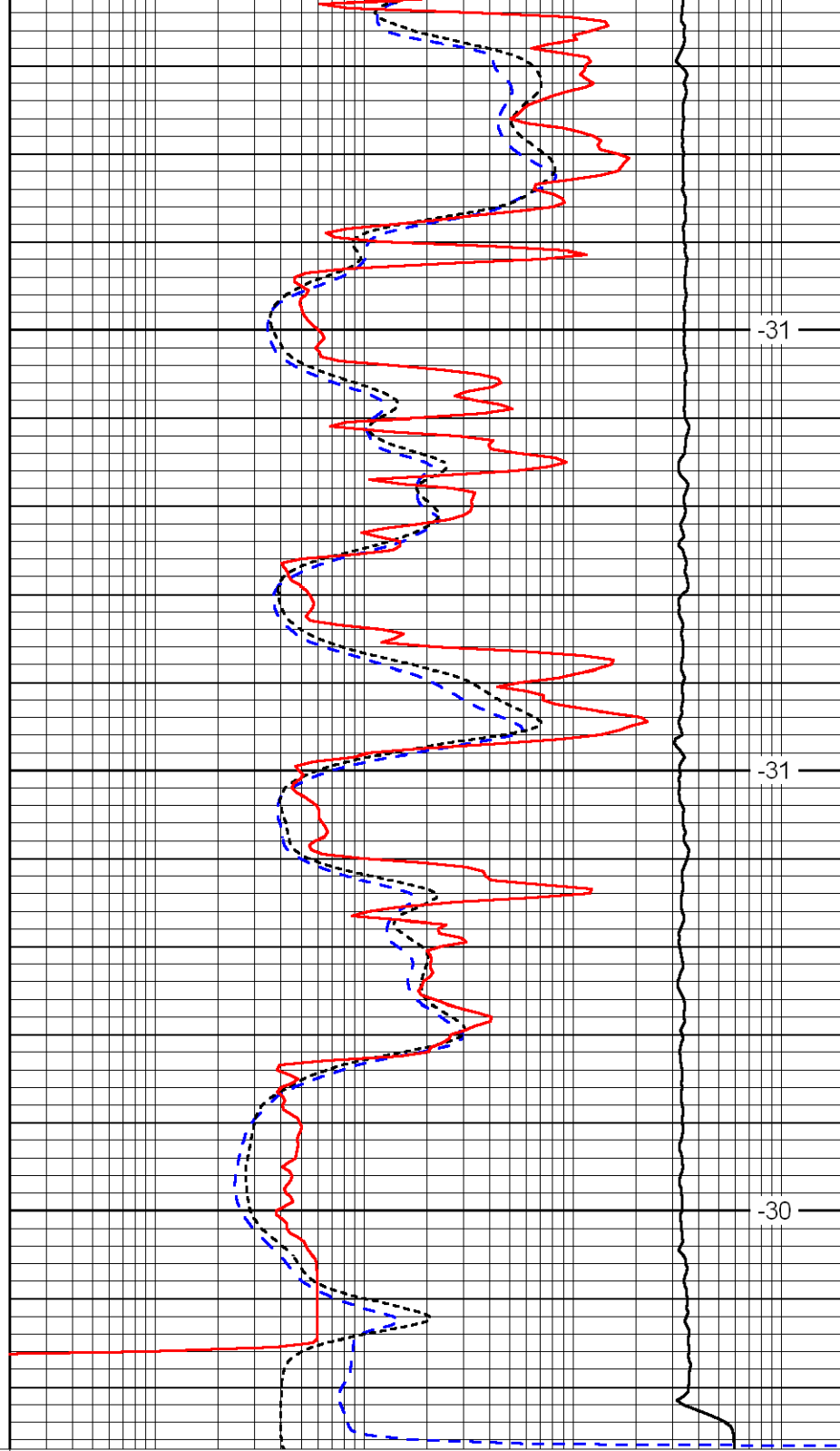


0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

3850

3900

3950



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD