



Pioneer Energy Services

Dual Induction Log

15-163-24,259-00-00

API No.

Company **H&C Oil Operating, Inc.**

Well **Kern #3**

Field **Kern**

County **Rooks**

State

Kansas

Location

**NE-SE-SW-SW
596' FSL & 1186' FWL**

Other Services
CNL/CDL
MEL

Sec: **28**

Twp: **9S**

Rge: **20W**

Elevation

K.B. 2305

D.F. 2298

G.L. 2298

Elevation 2298

7 Ft. Above Perm. Datum

Ground Level

Kelly Bushing

Frontkelly Bushing

Date

Run Number

Depth Driller

Depth Logger

Bottom Logged Interval

Top Log Interval

Casing Driller

Casing Logger

Bit Size

Type Fluid in Hole

Salinity, ppm CL

Density / Viscosity

pH / Fluid Loss

Source of Sample

Rm @ Meas. Temp

Rmf @ Meas. Temp

Rmc @ Meas. Temp

Source of Rmf / Rmc

Rm @ BHT

Operating Rig Time

Max Rec. Temp. F

Equipment Number

Location

Recorded By

Witnessed By

10/1/2014

One

3955

3953

3952

250

8.625 @ 262

259

7.875

Chemical

1.200

9.6

58

11.0

7.2

Flowline

.90 @ 64

.68 @ 64

1.22 @ 64

Charts

.50 @ 116

3 1/2 Hours

116

10

Hays

J. Henrickson

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

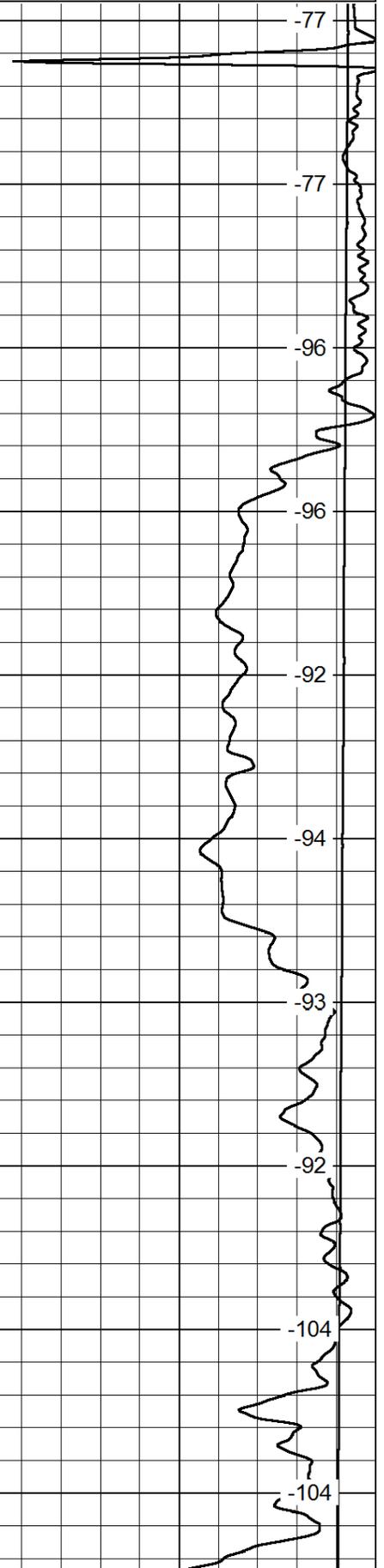
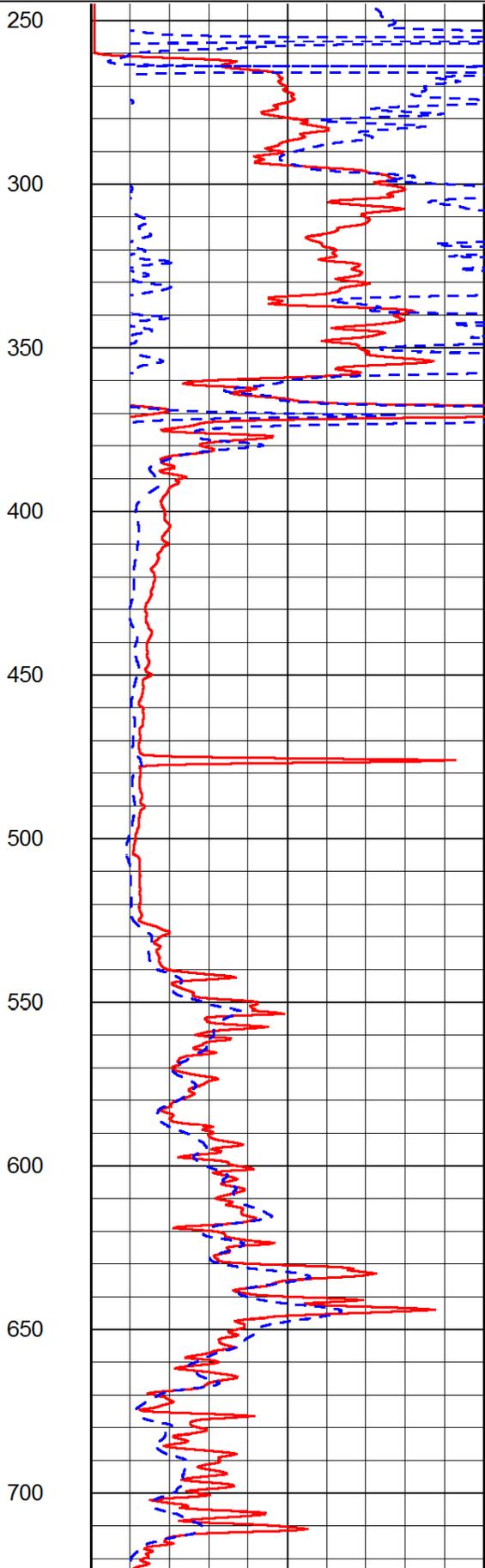
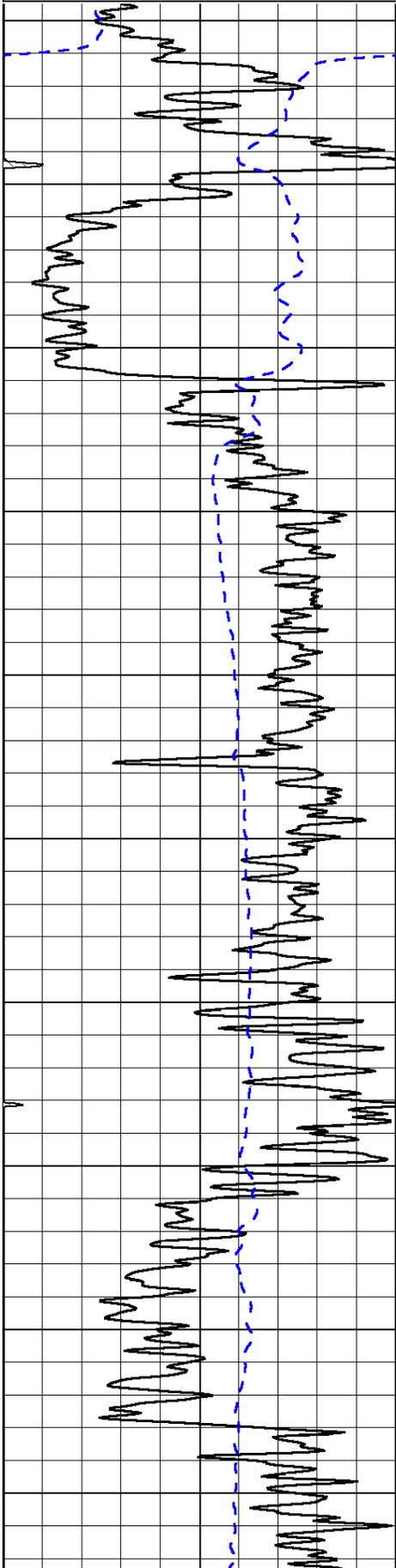
Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858
 Palco Kansas
 1 South to Red Line Rd, 1/2 West, South Into

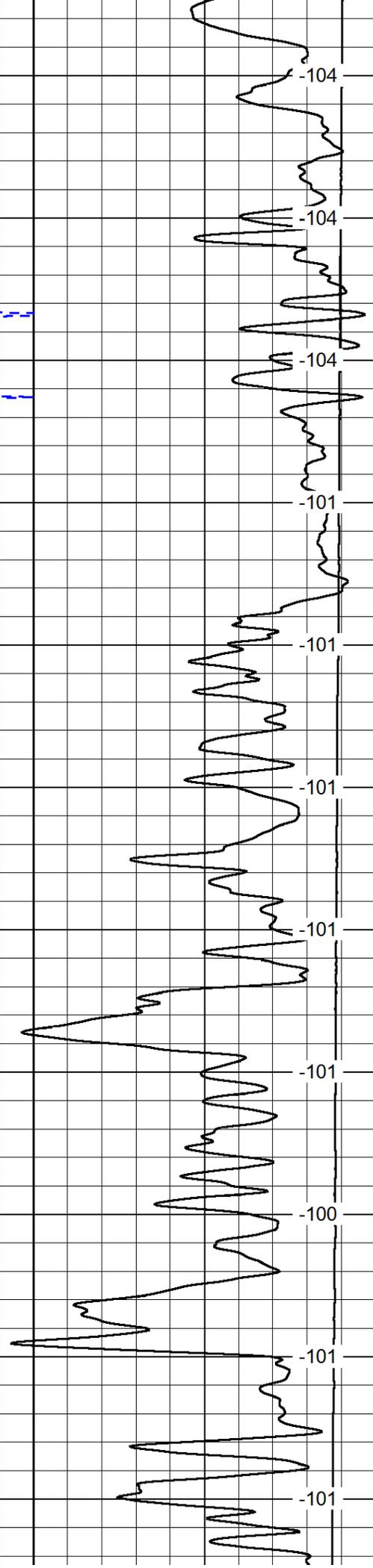
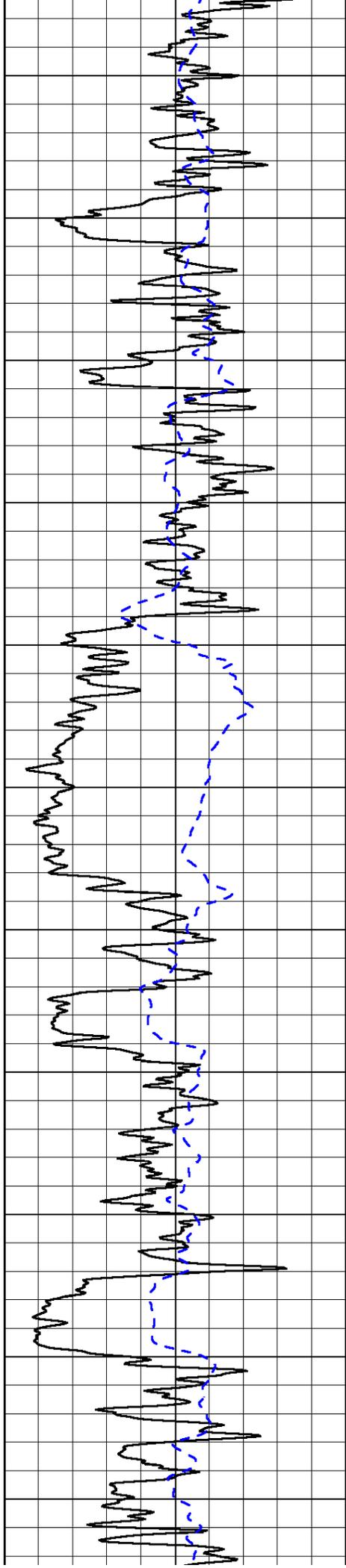
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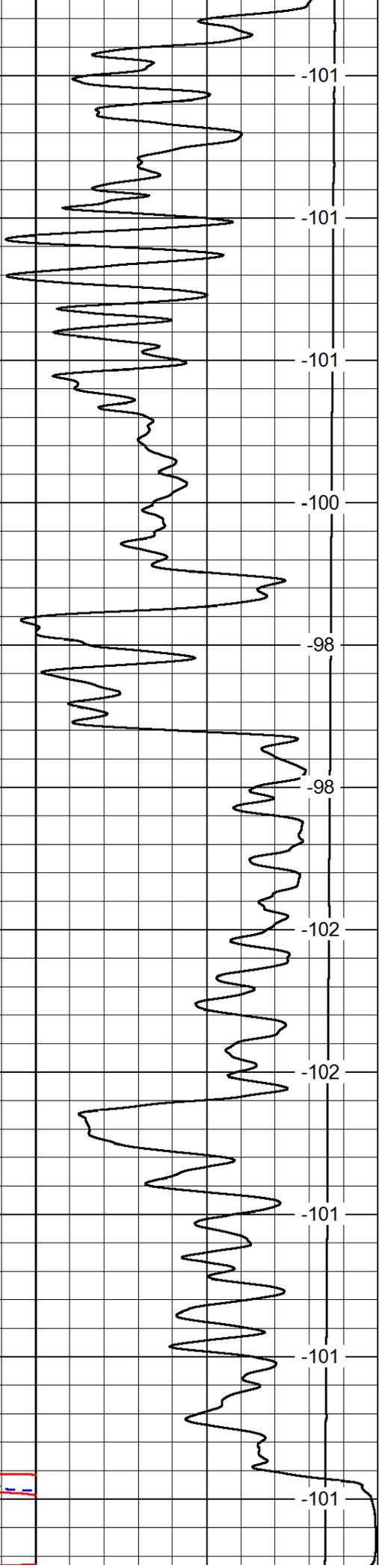
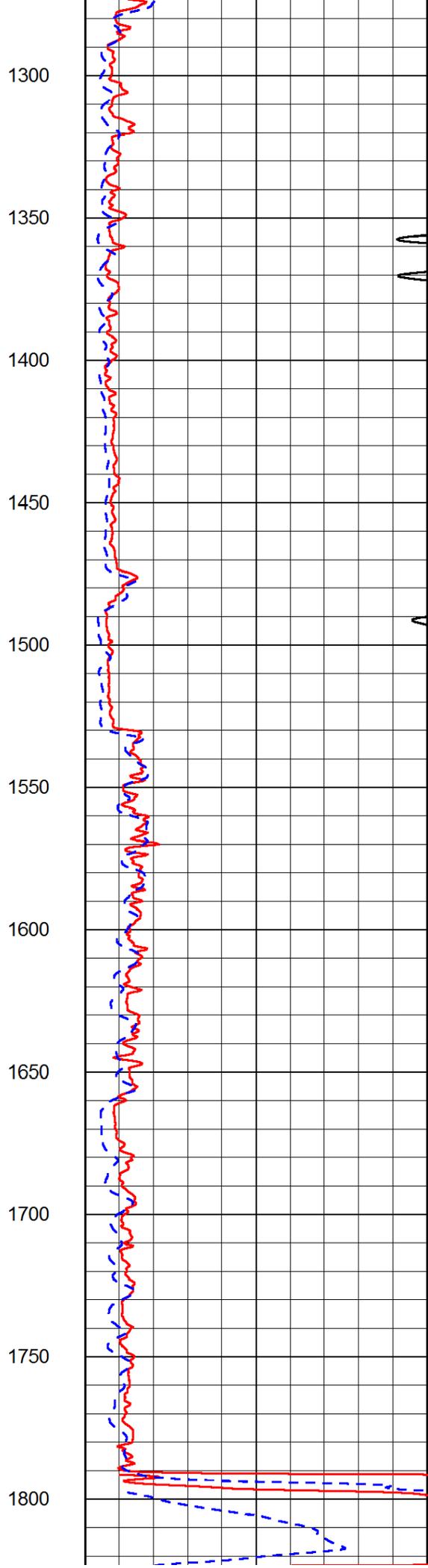
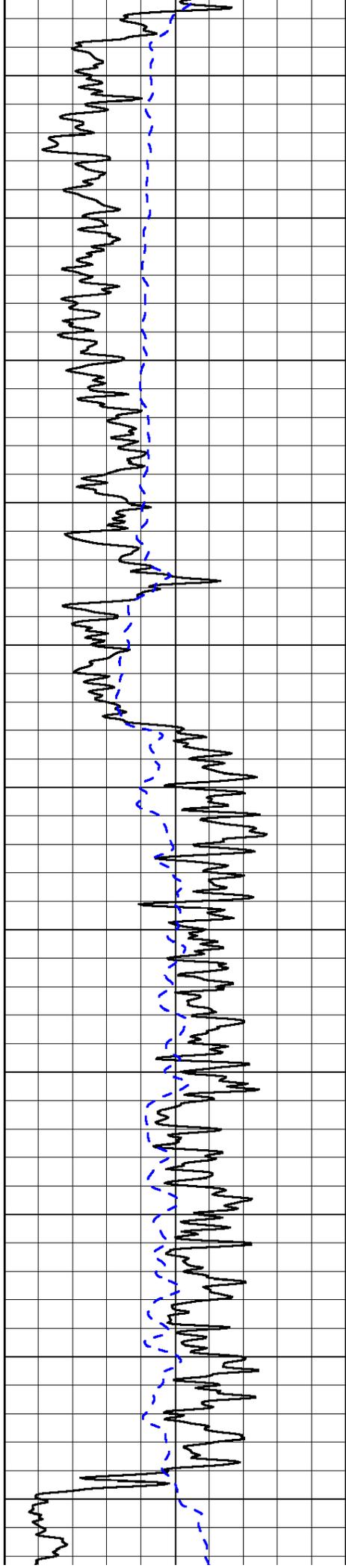
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-200 SP (mV) 0

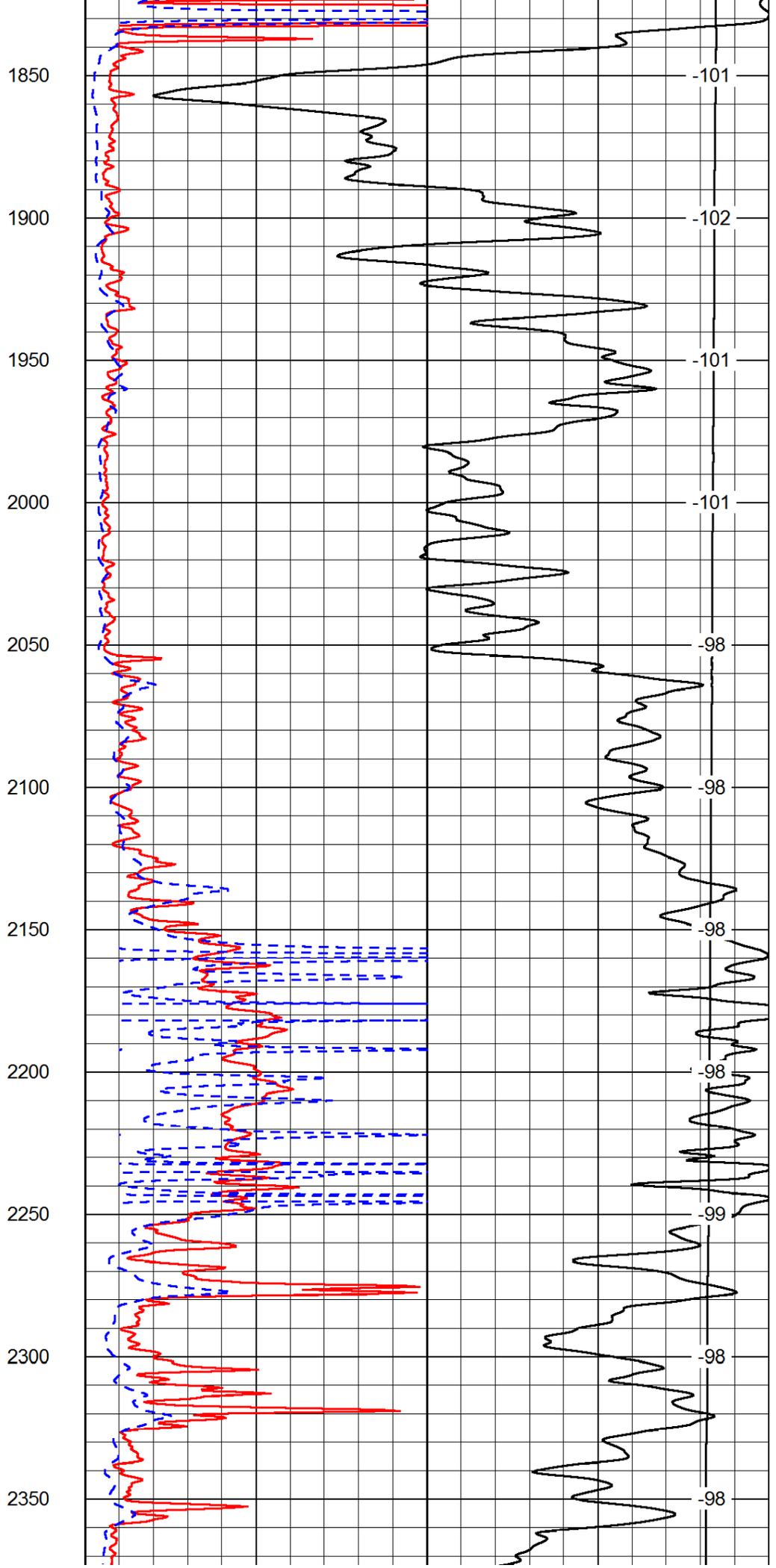
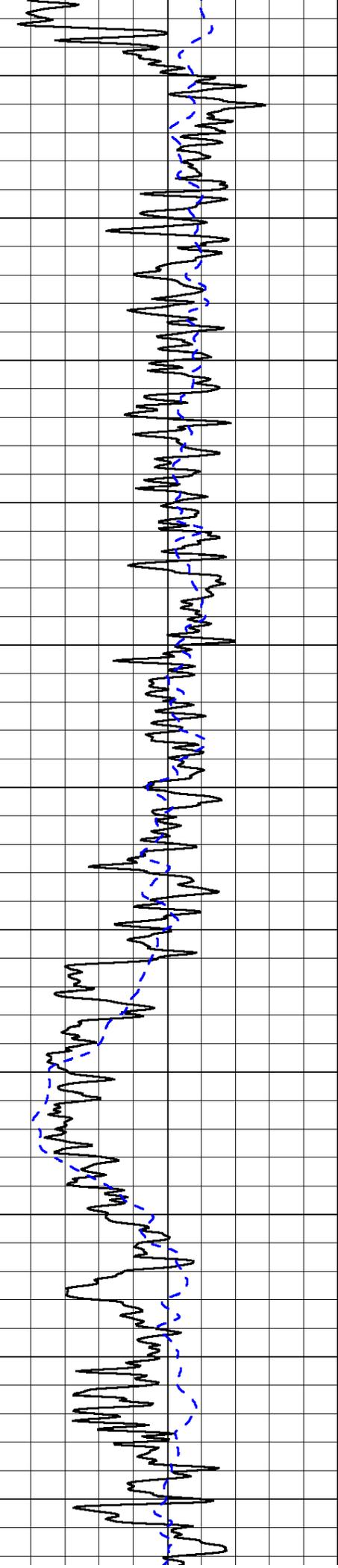
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0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500

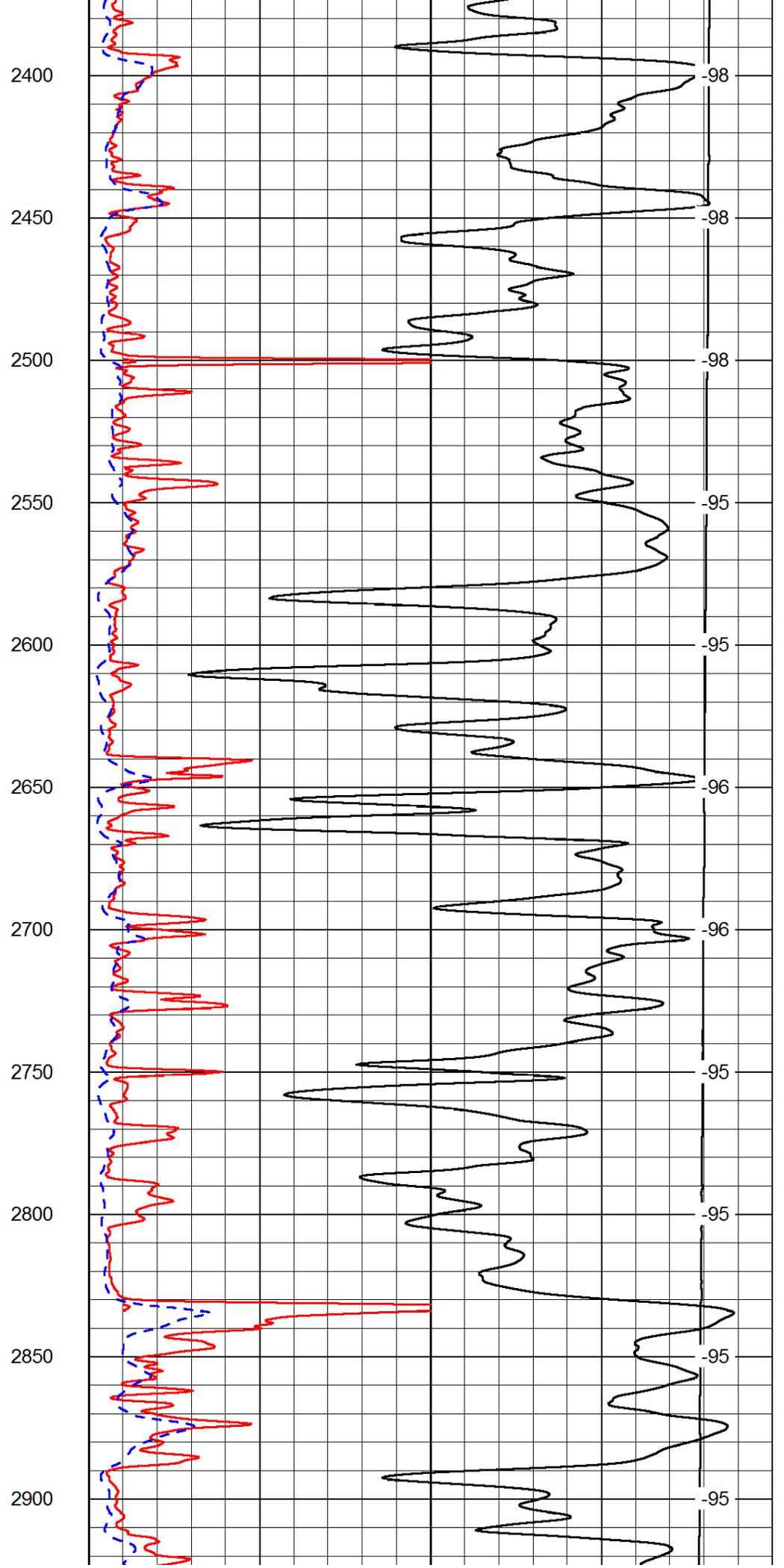
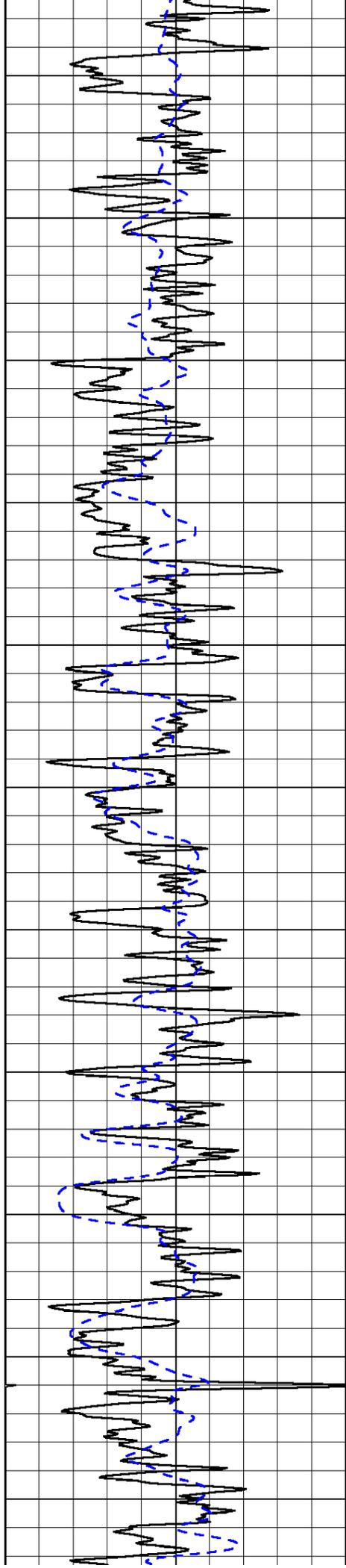
LSPD

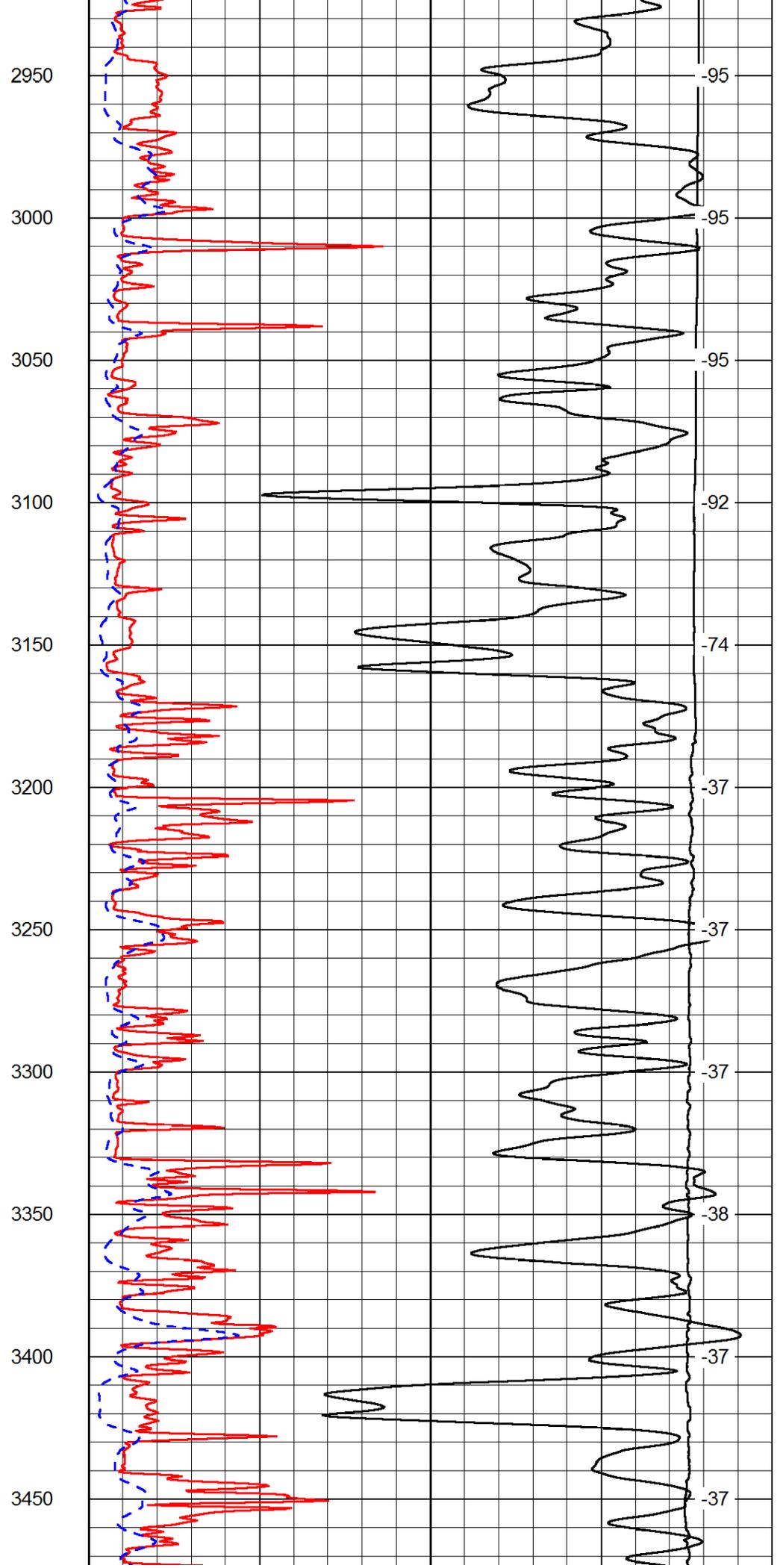
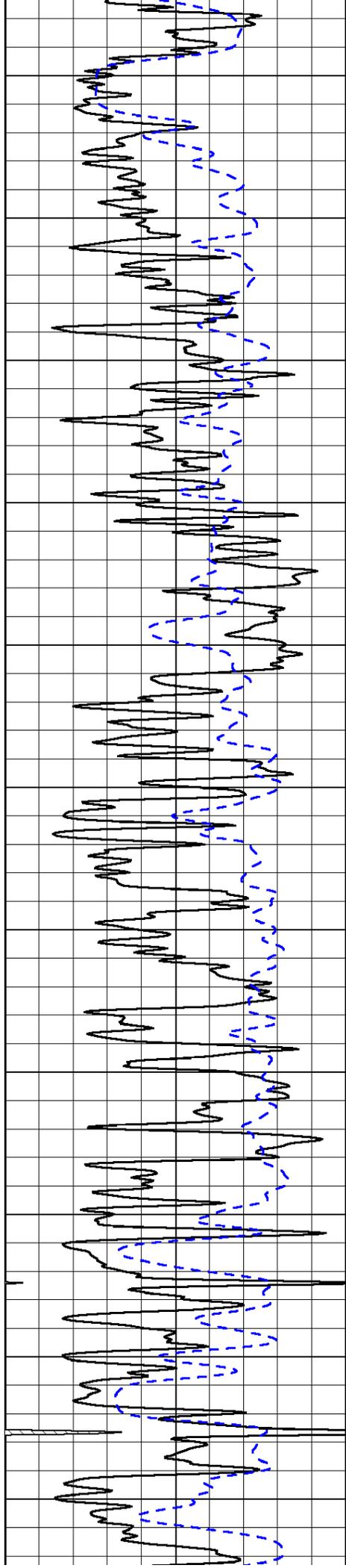


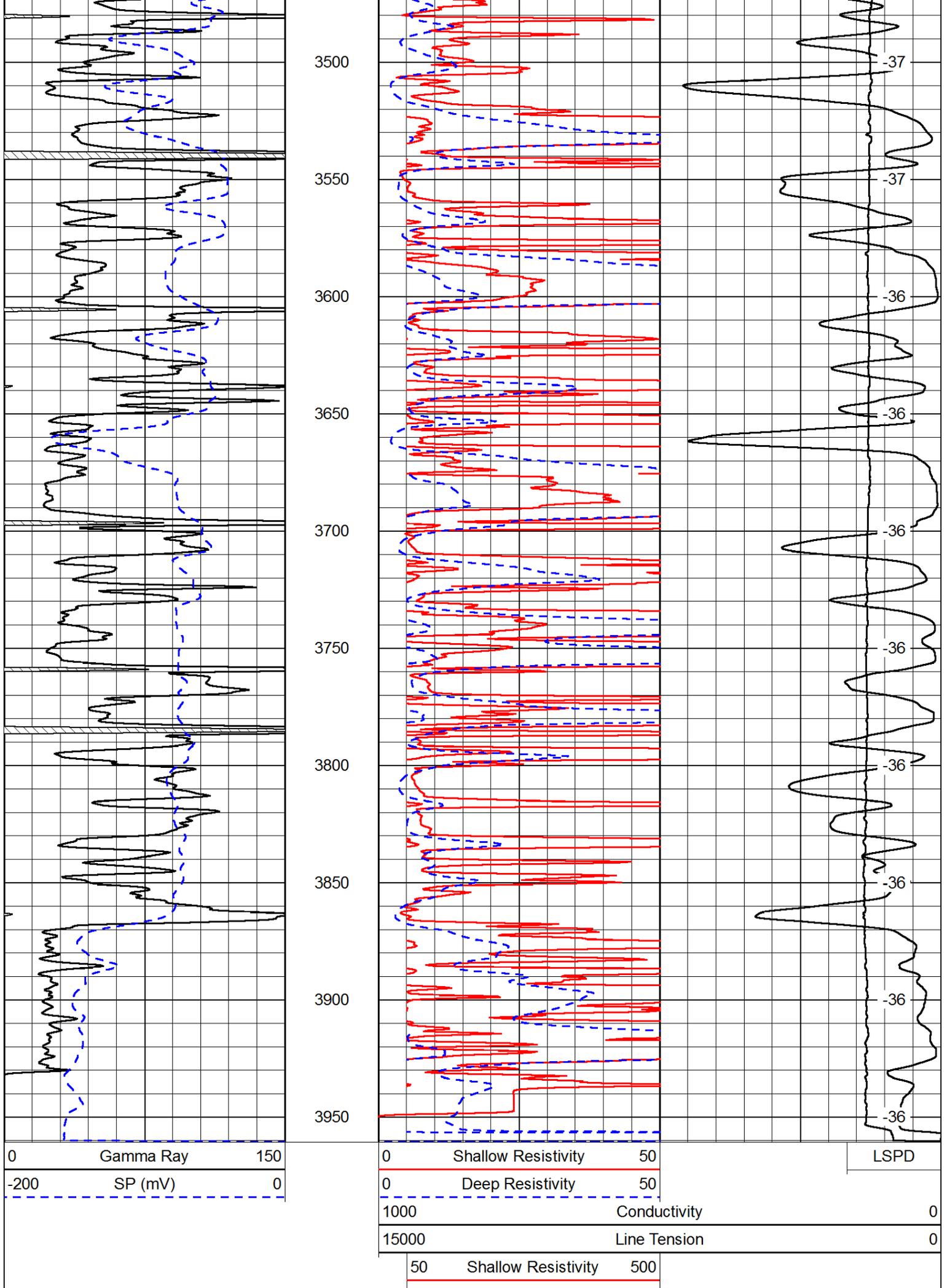










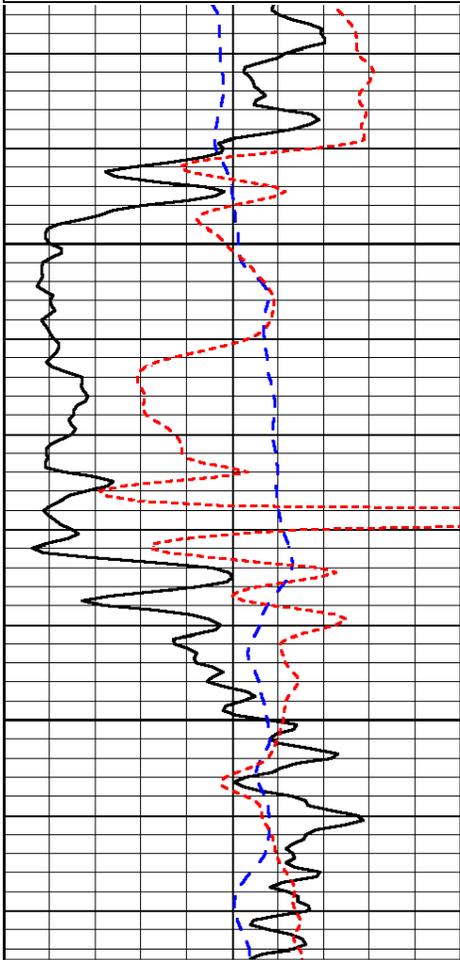


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-200	SP (mV)	0
-160	RxoRt	40

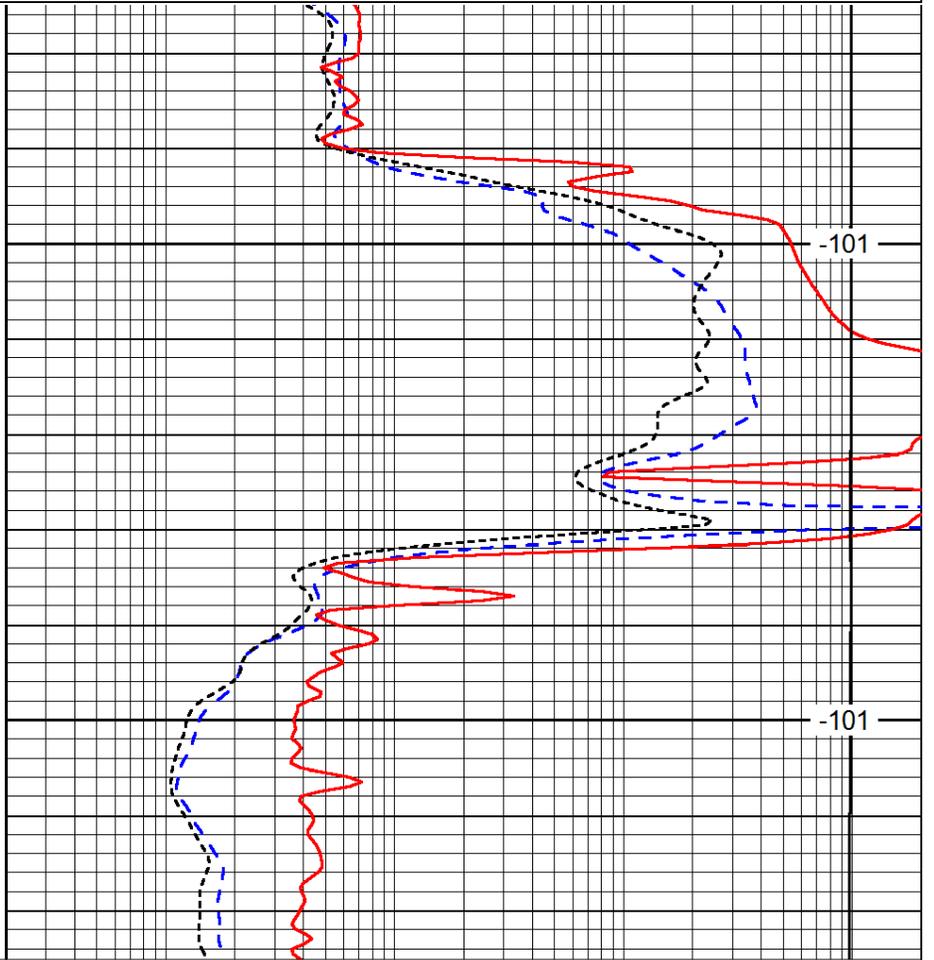
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



1800

1850



-101

-101

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

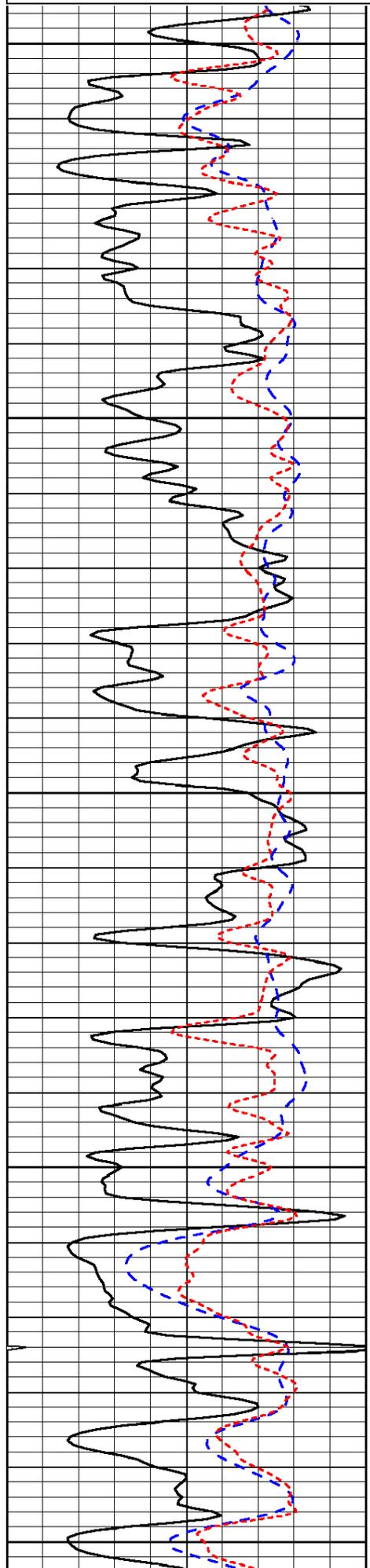
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

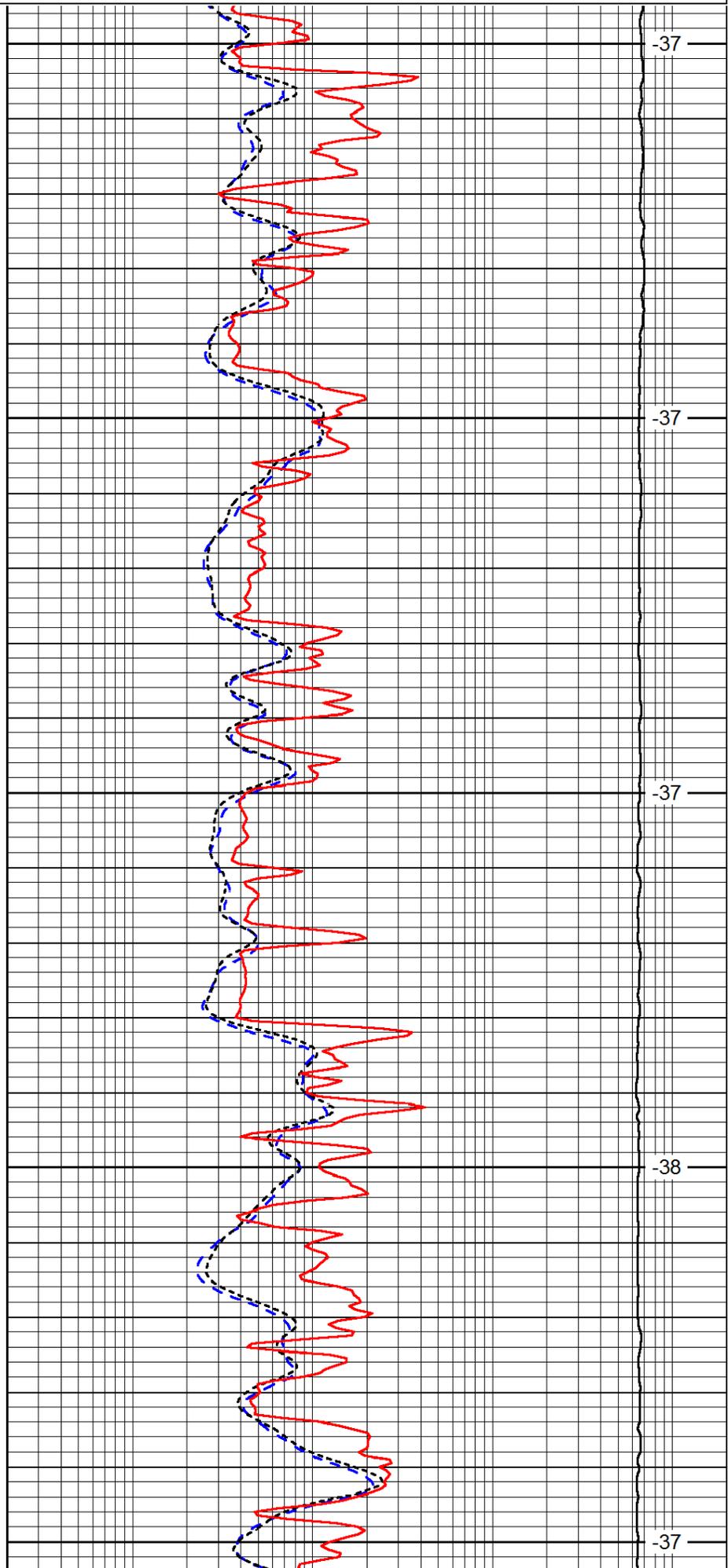
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-200	SP (mV)	0
-160	RxoRt	40

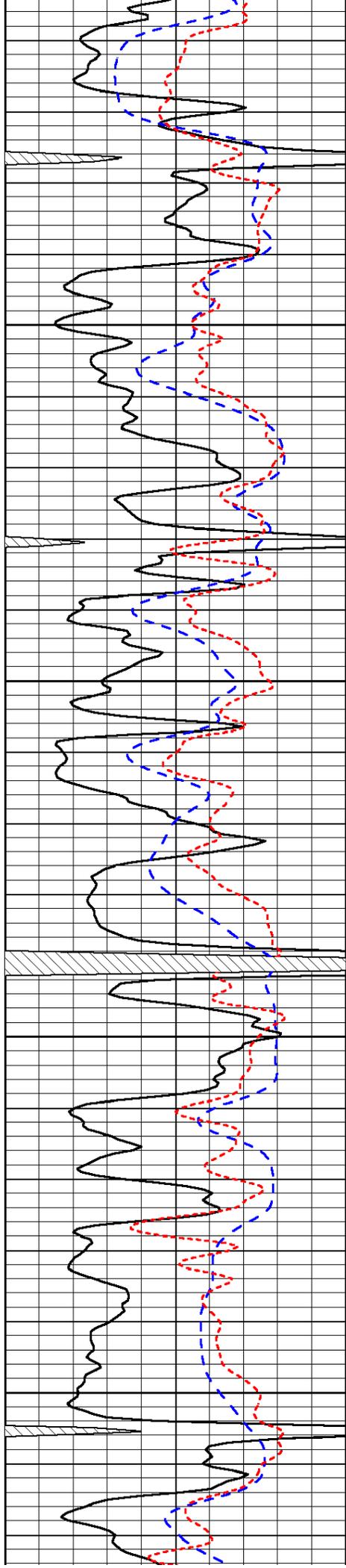
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000



3200
3250
3300
3350
3400



-37
-37
-37
-38
-37

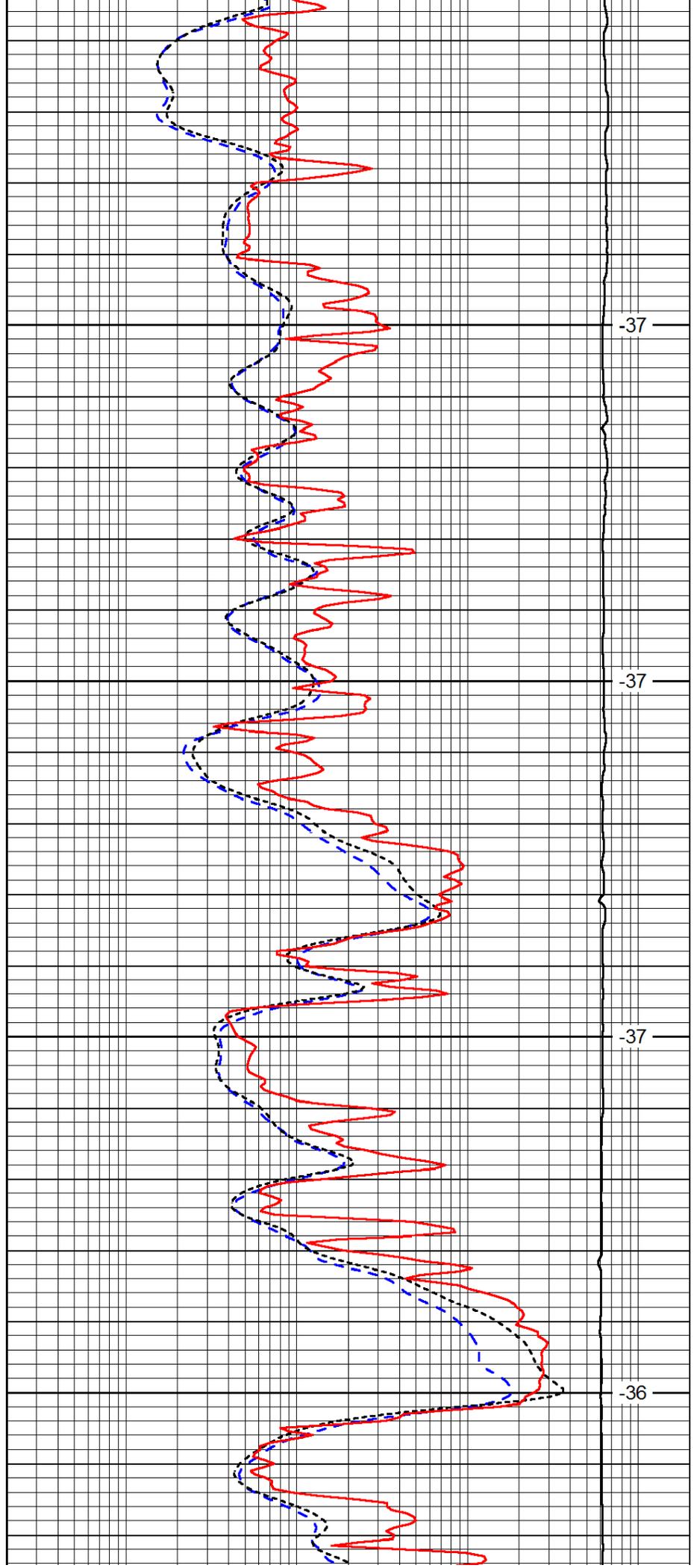


3450

3500

3550

3600

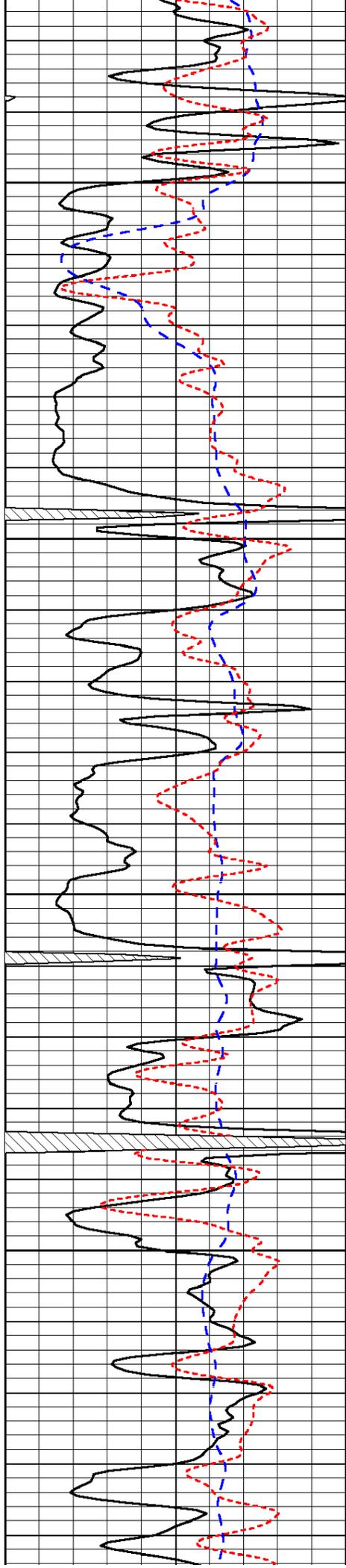


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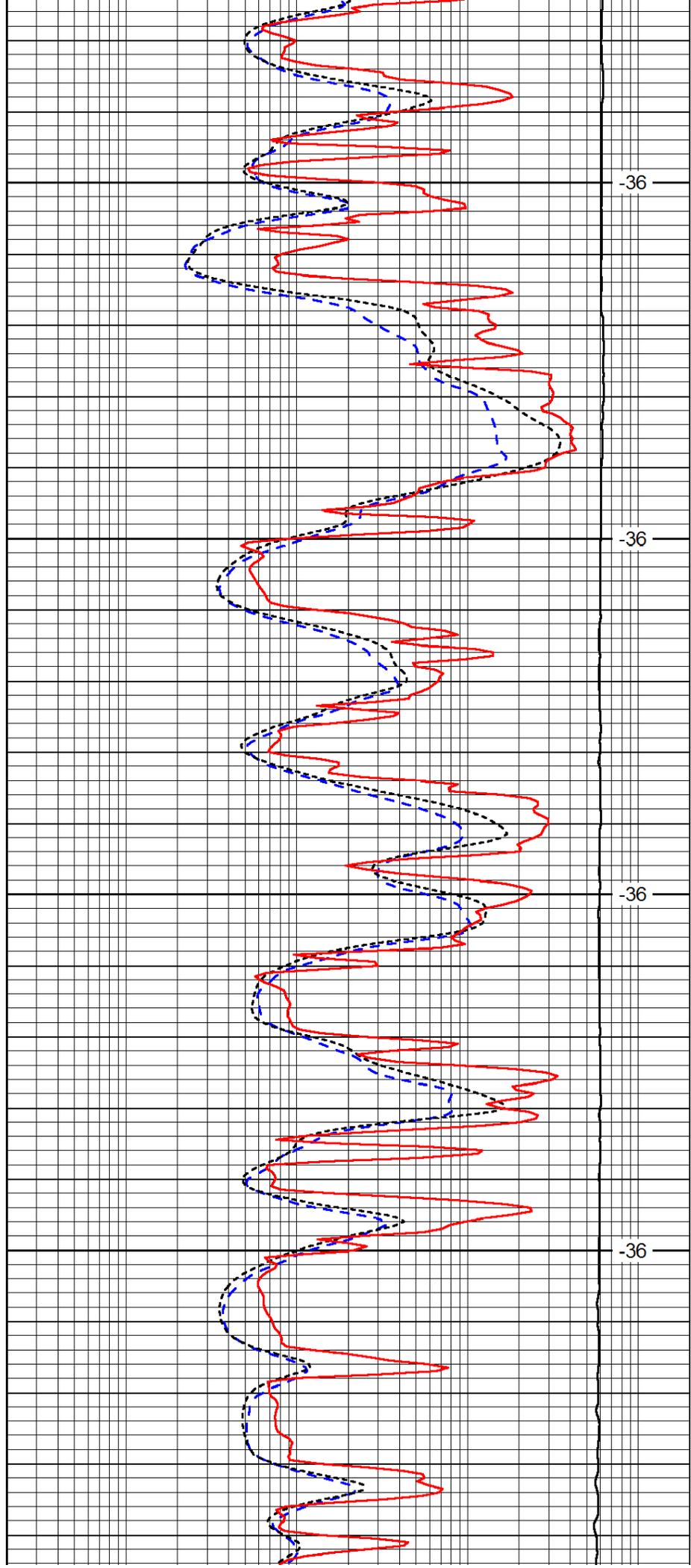


3650

3700

3750

3800

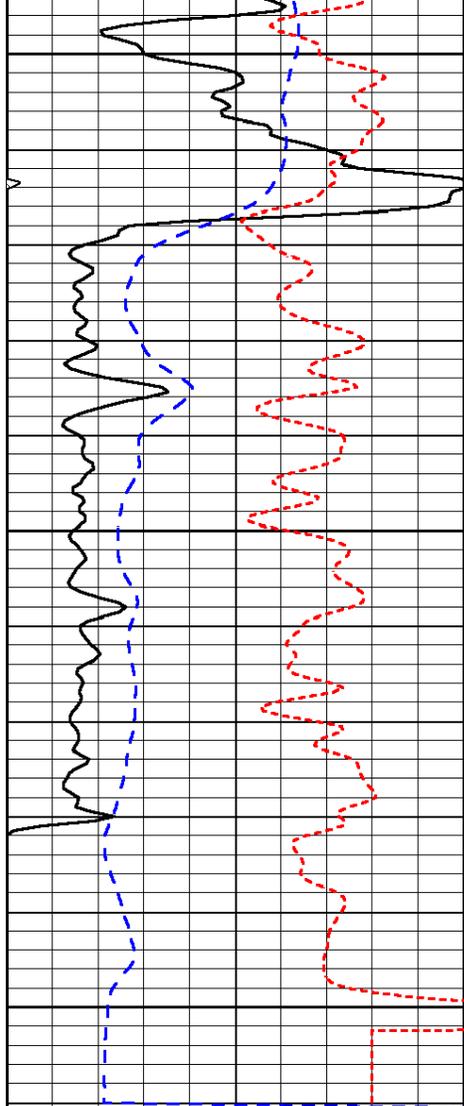


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-200	SP (mV)	0
-160	RxoRt	40

3850

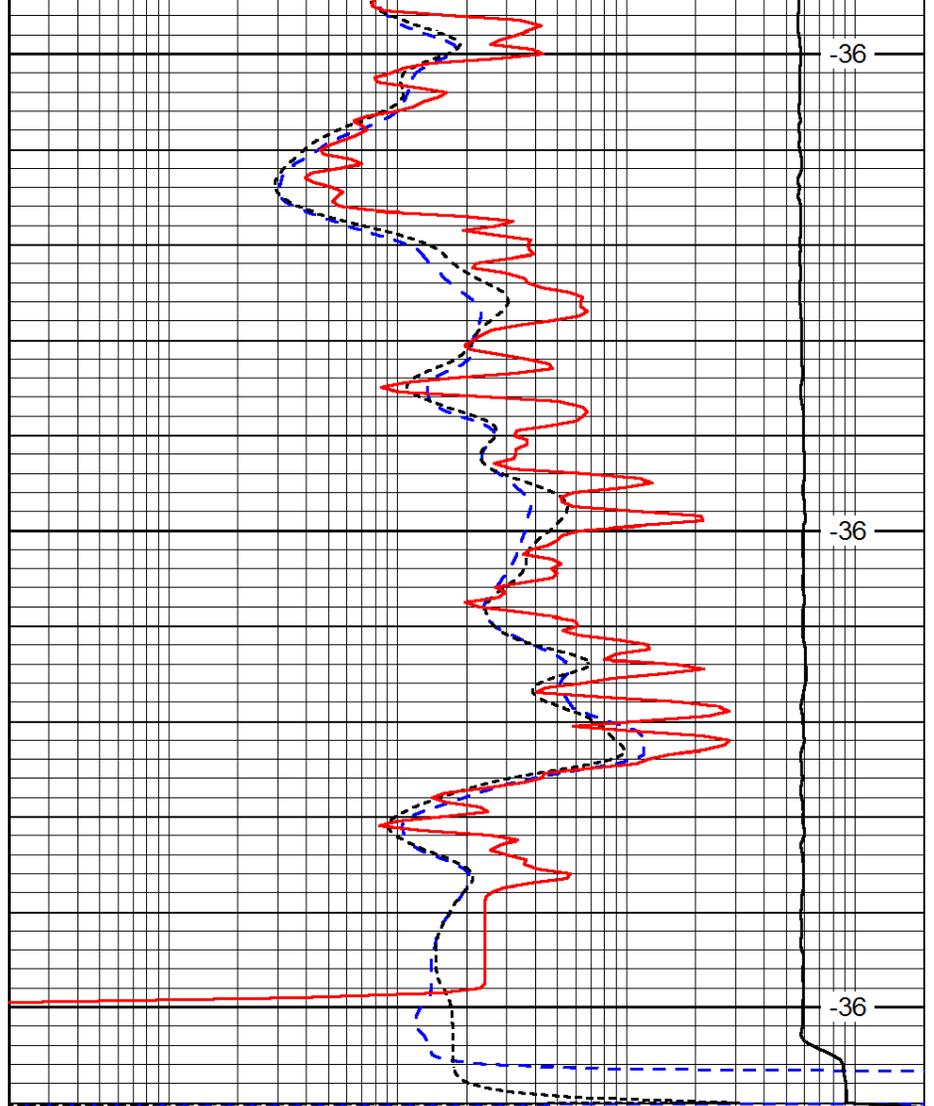
3900

3950

-36

-36

-36



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

LSPD