



Dual Induction Log

Pioneer Energy Services

API No.

15-035-24,628-00-00

Company AAS Oil Company, Inc.

Well Warner A #1

Field Murphy

County Cowley

State

Kansas

Location

1650' FSL & 3960' FEL

Sec: 19 Twp: 34S

Rge: 3E

Elevation

K.B. 1158
D.F. 1150
G.L. 1150

Permanent Datum Ground Level Elevation 1150
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

12/12/2014

Run Number

One

Depth Driller

3499

Depth Logger

3499

Bottom Logged Interval

3498

Top Log Interval

300

Casing Driller

8.625 @ 317

Casing Logger

328

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

450

Density / Viscosity

9.2 39

pH / Fluid Loss

10.5 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

1.7 @ 54

Rmf @ Meas. Temp

1.28 @ 54

Rmc @ Meas. Temp

2.3 @ 54

Source of Rmf / Rmc

Charts

Rm @ BHT

.83 @ 111

Operating Rig Time

4 Hours

Max Rec. Temp. F

111

Equipment Number

51

Location

Hays

Recorded By

C. Desaire

Witnessed By

Dan Johnson

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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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www.pioneerres.com
785 625 3858

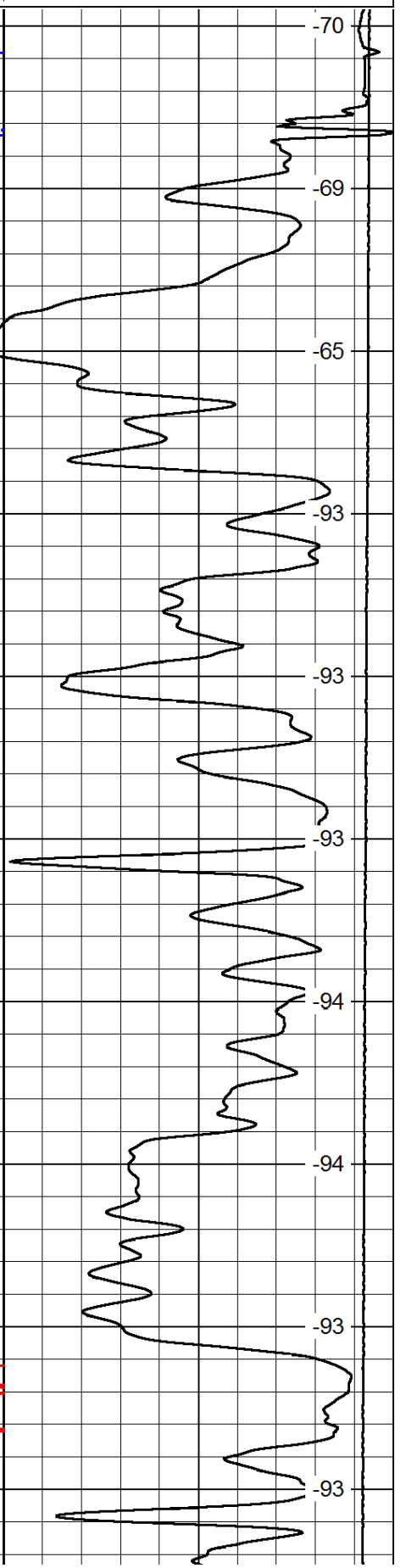
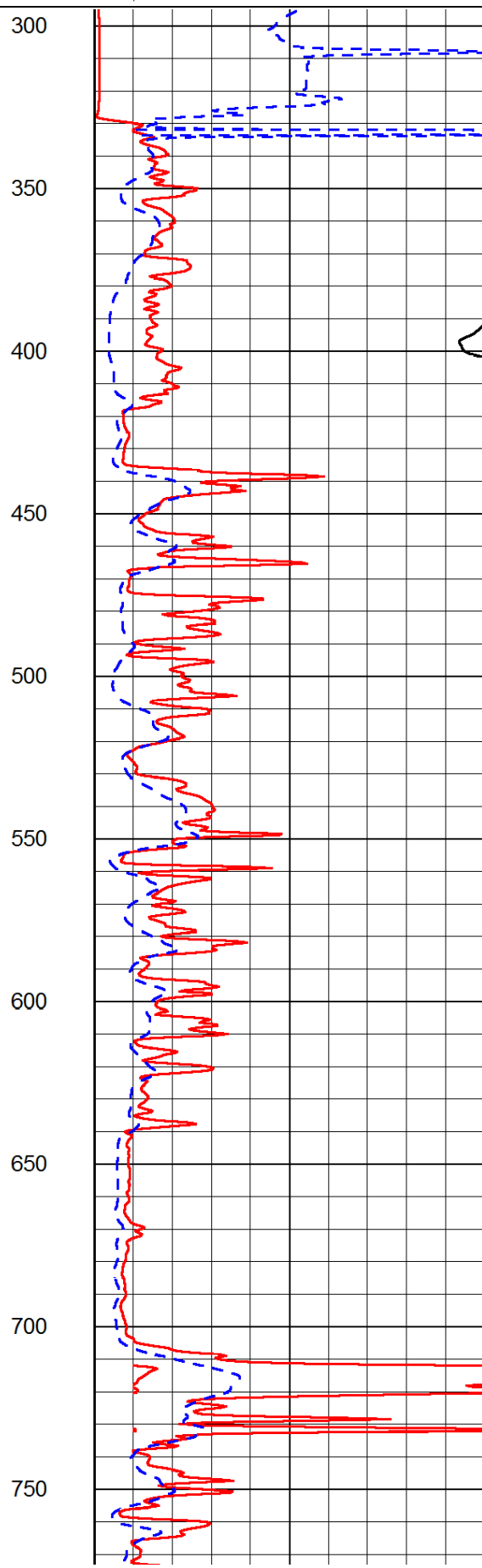
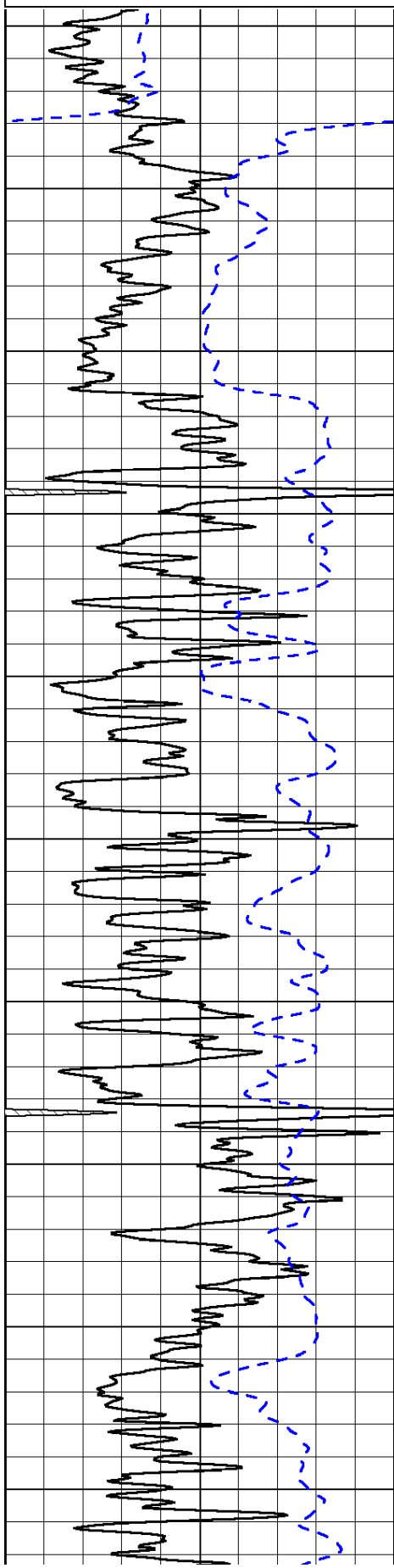
South Haven Exit, 10 E to County Line,
1 N to 282 Rd, 1/4 E, N Into

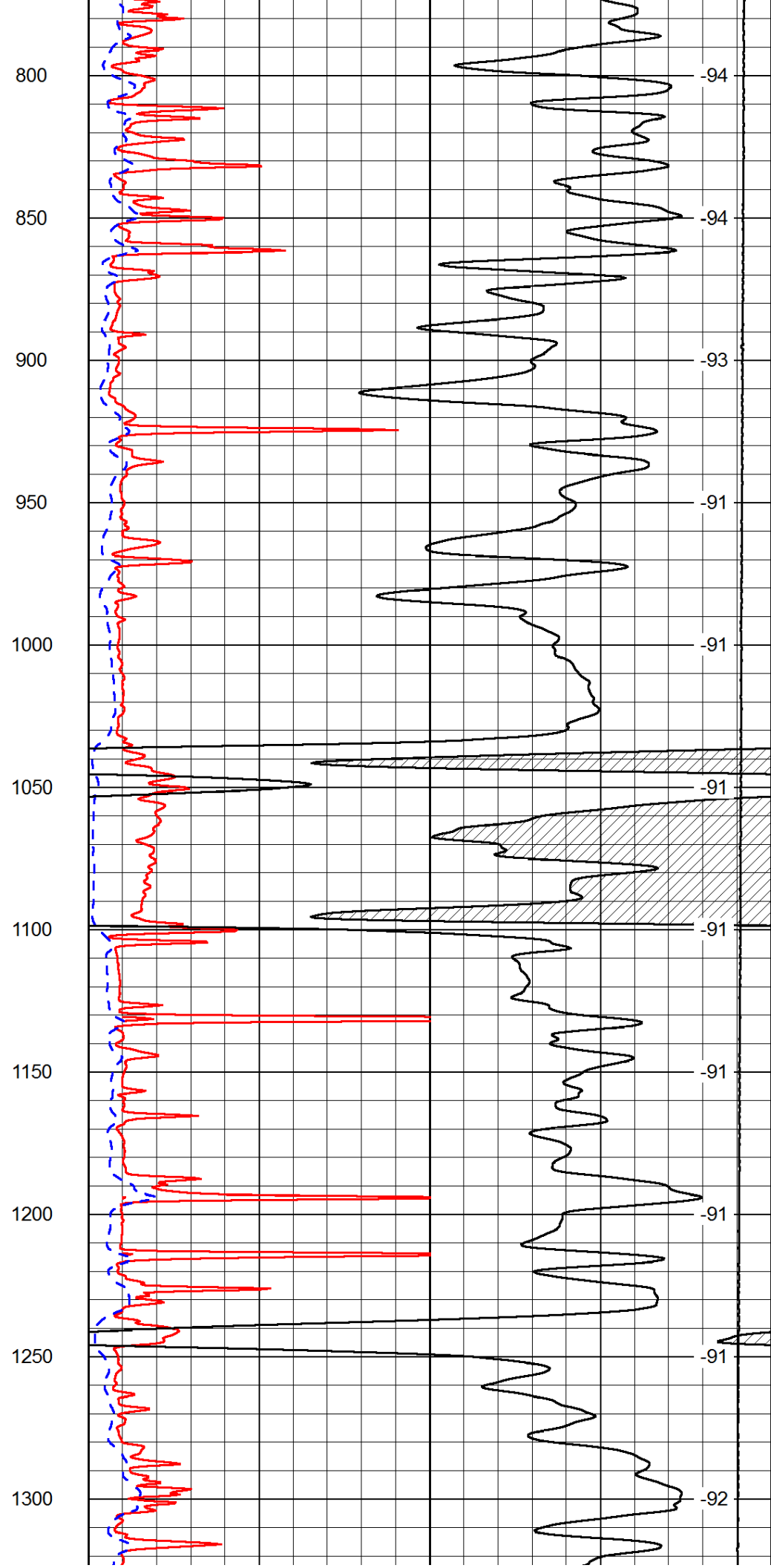
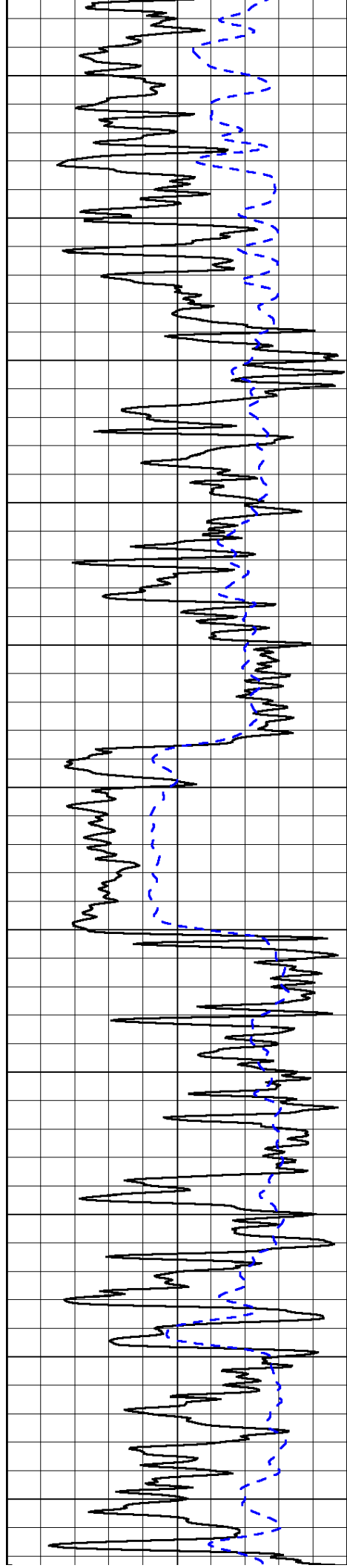
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Dataset Pathname: dil/aasstk
Presentation Format: dil2in
Dataset Creation: Fri Dec 12 07:41:58 2014
Charted by: Depth in Feet scaled 1:600

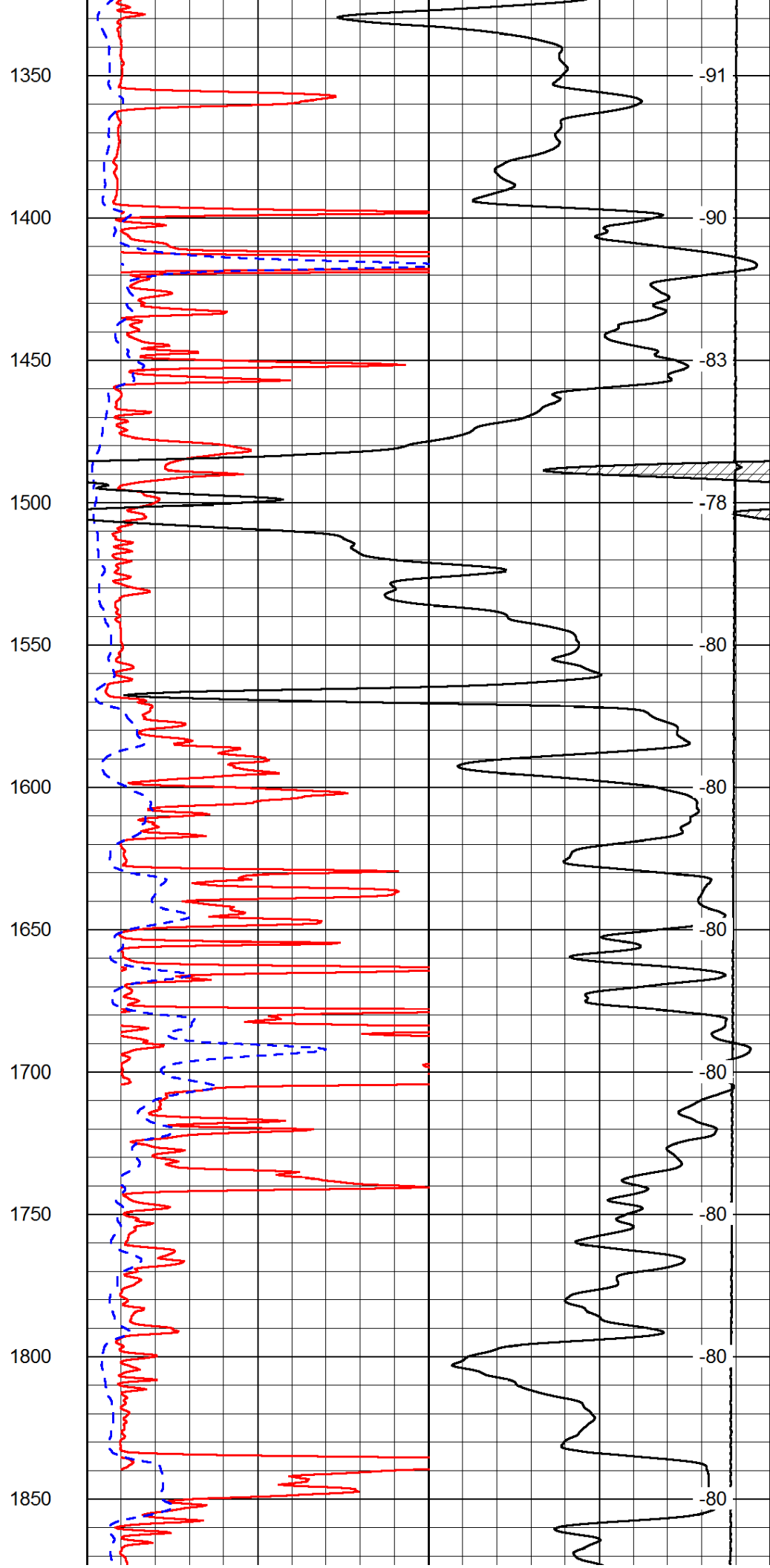
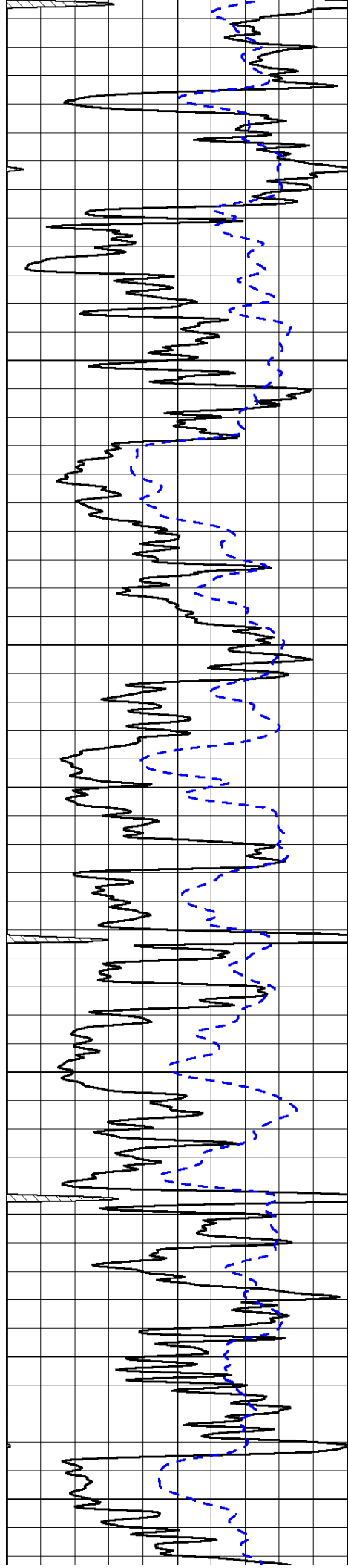
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-200	SP (mV)	0

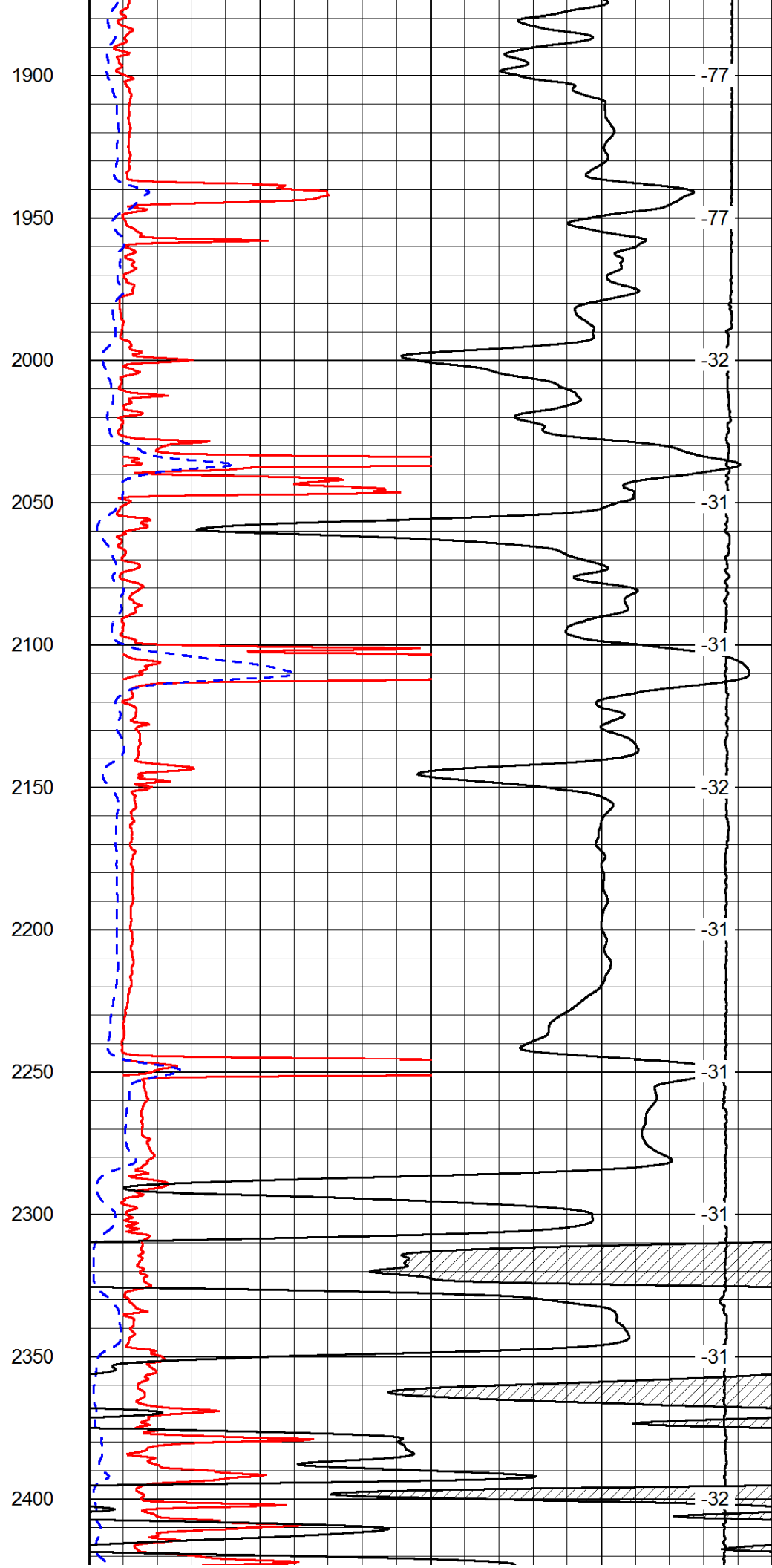
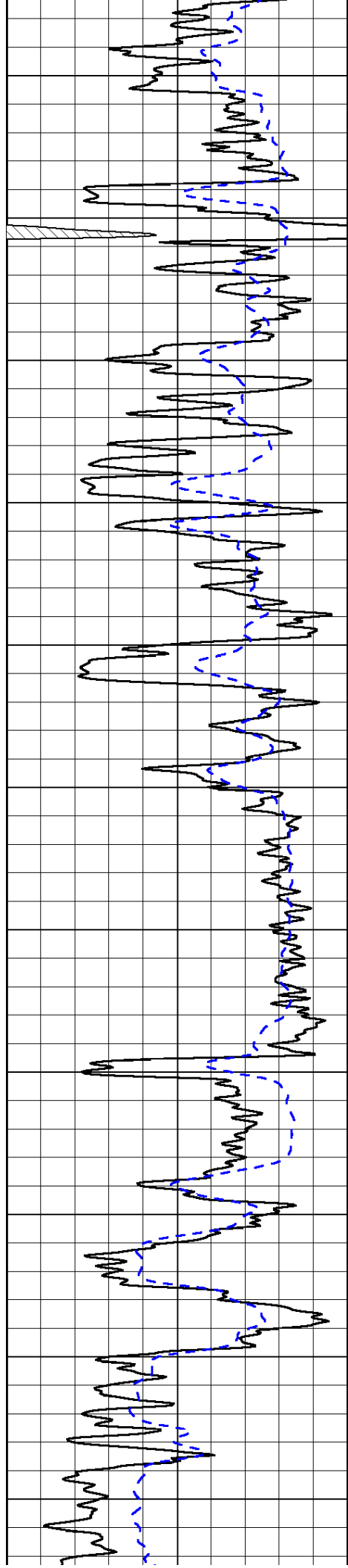
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

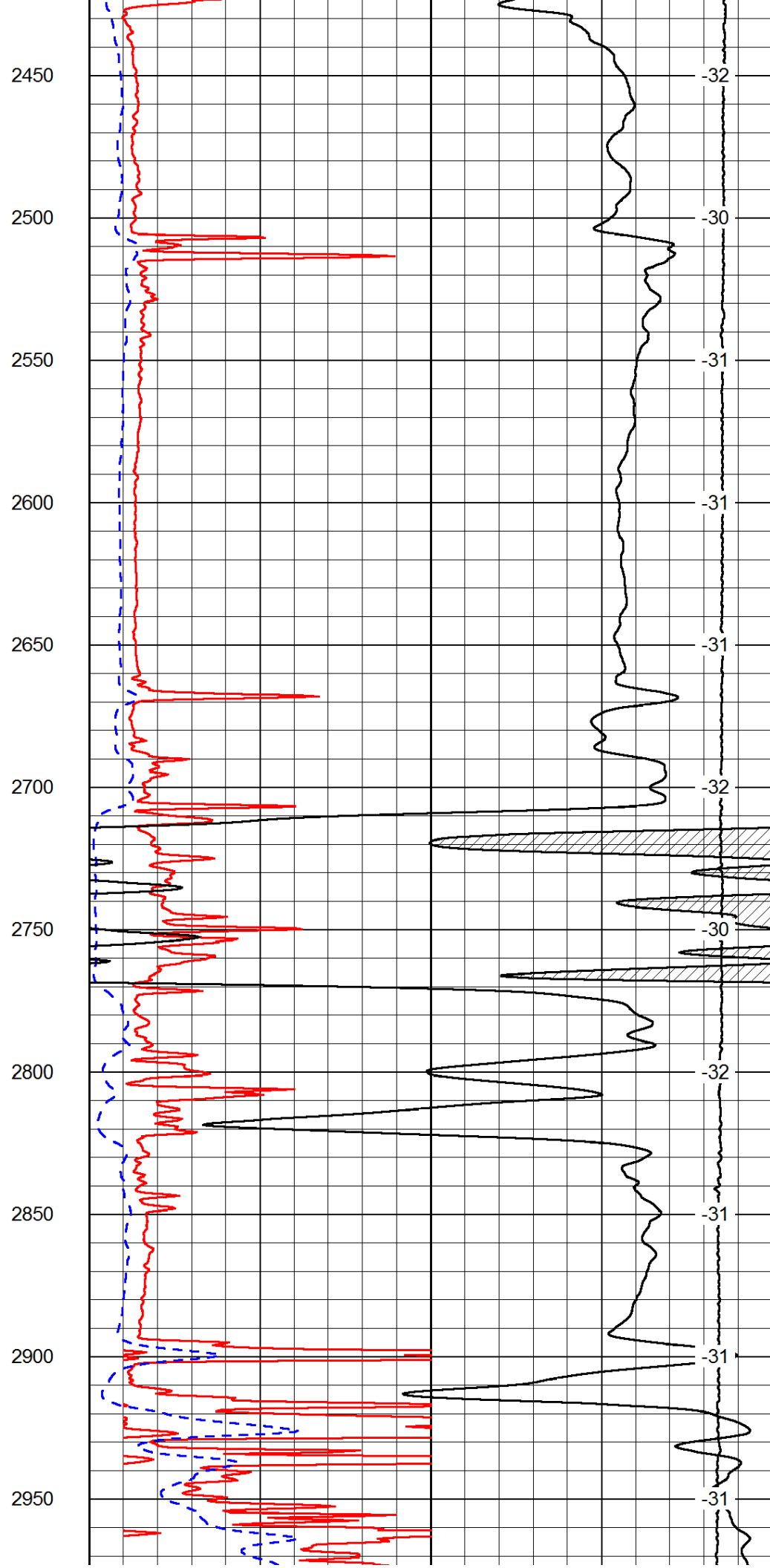
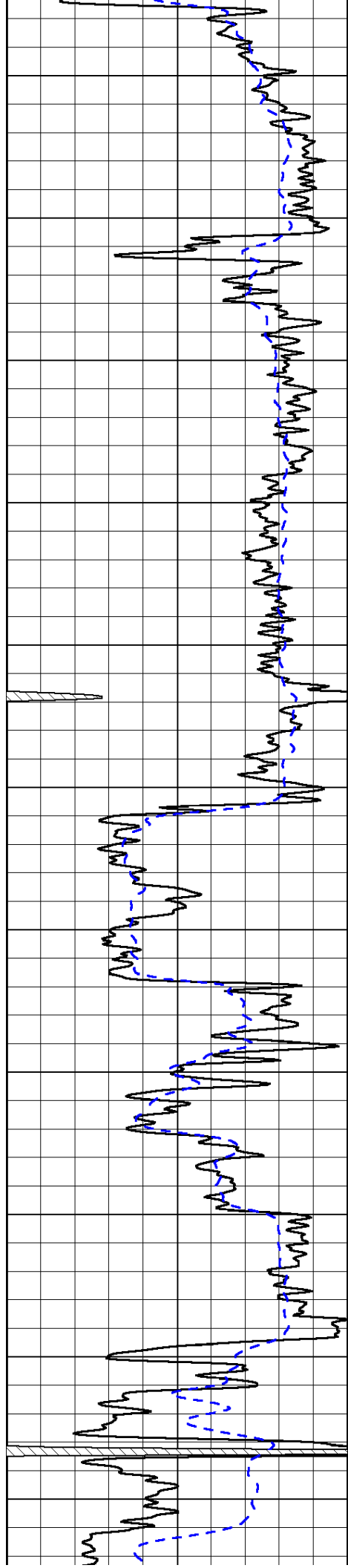
LSPD	0
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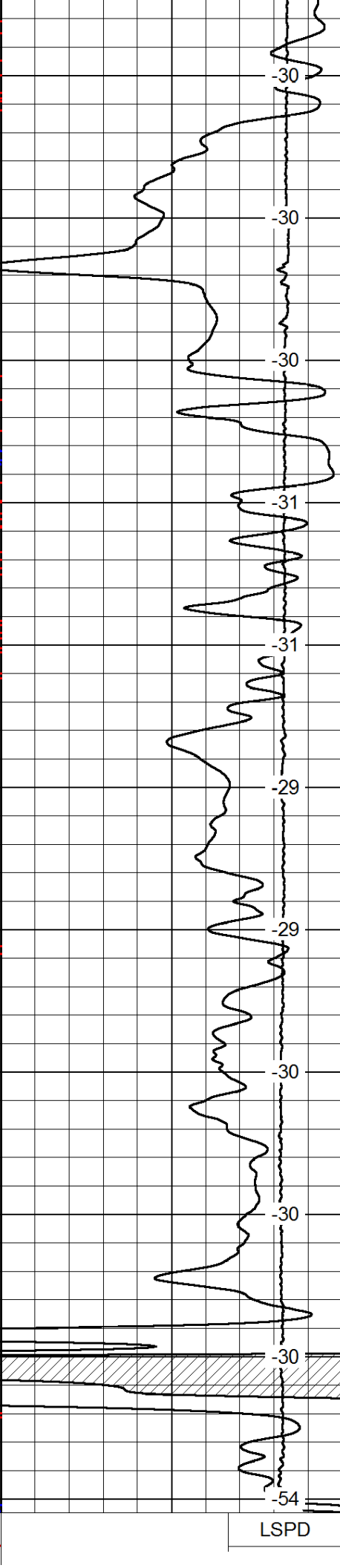
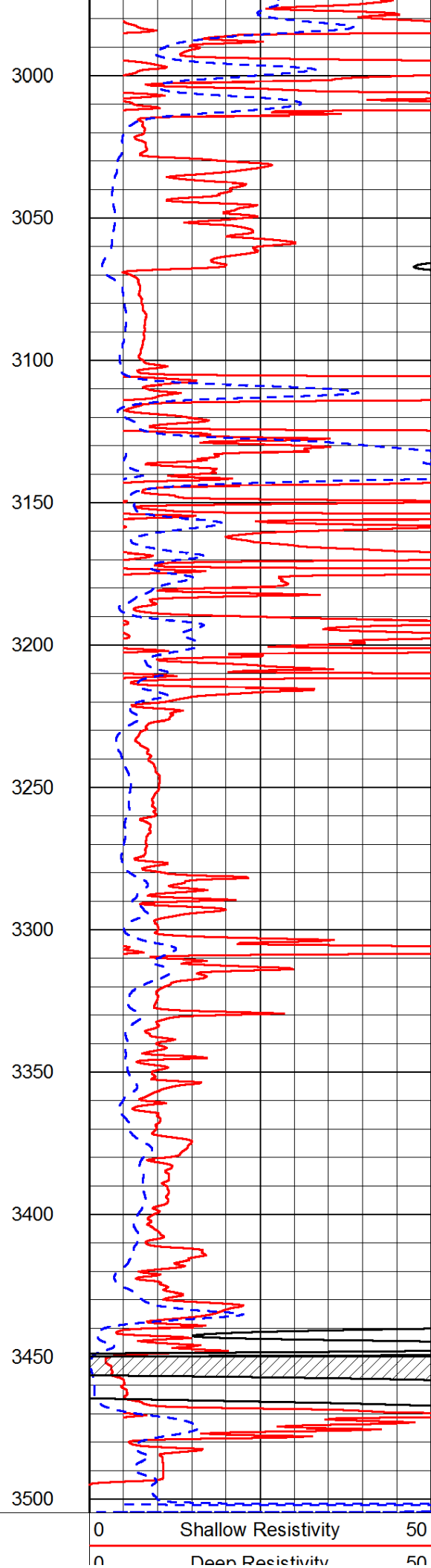
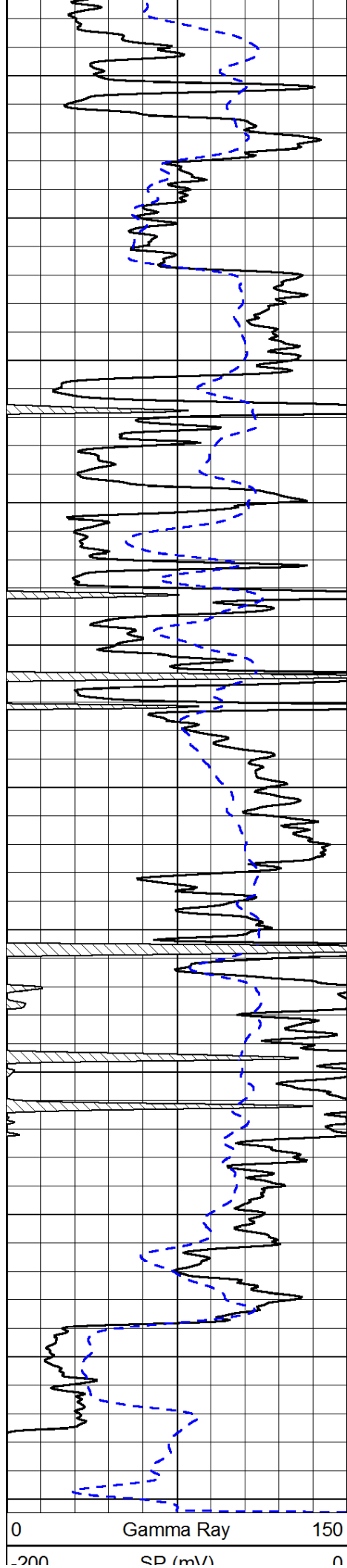












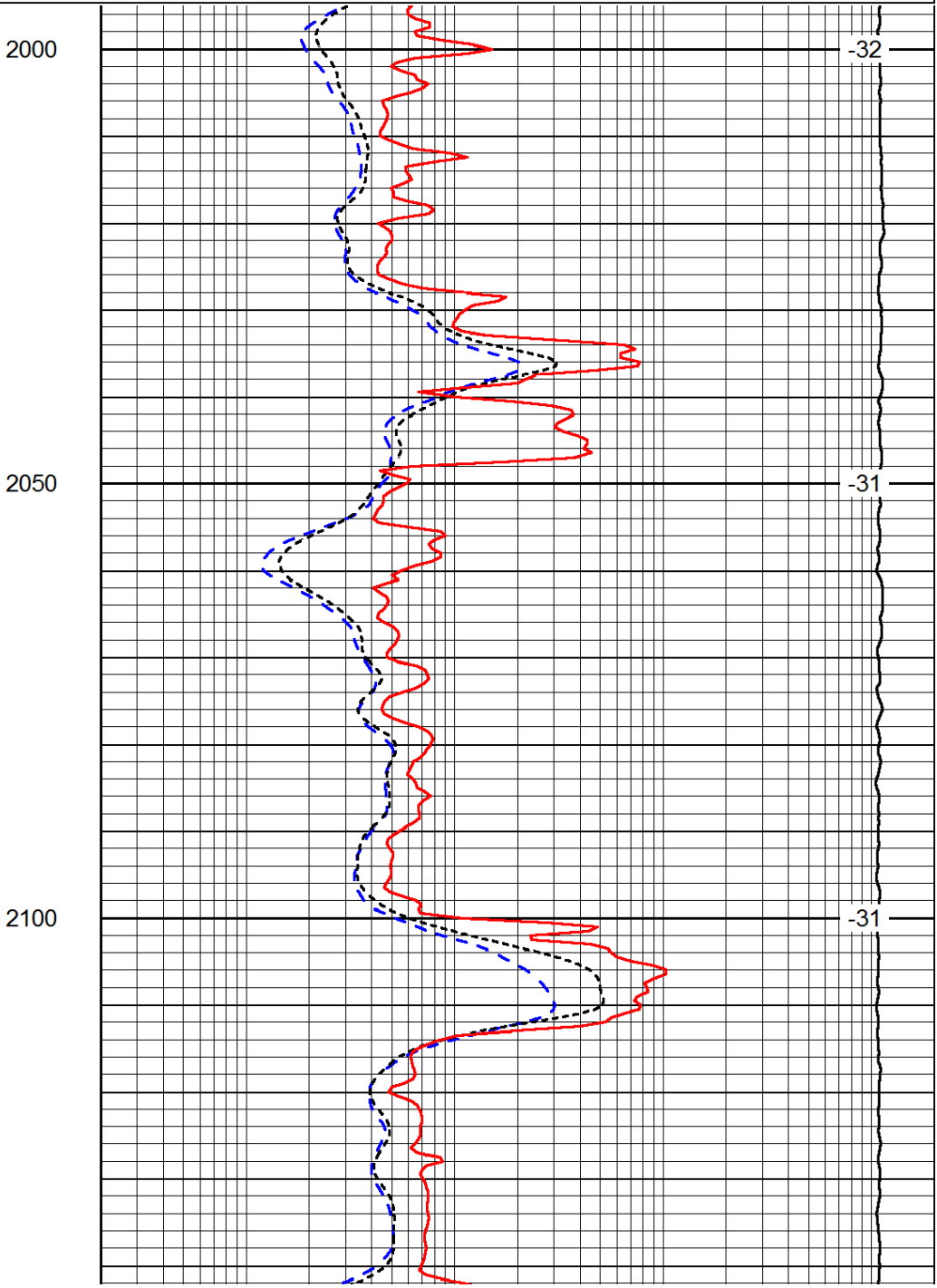
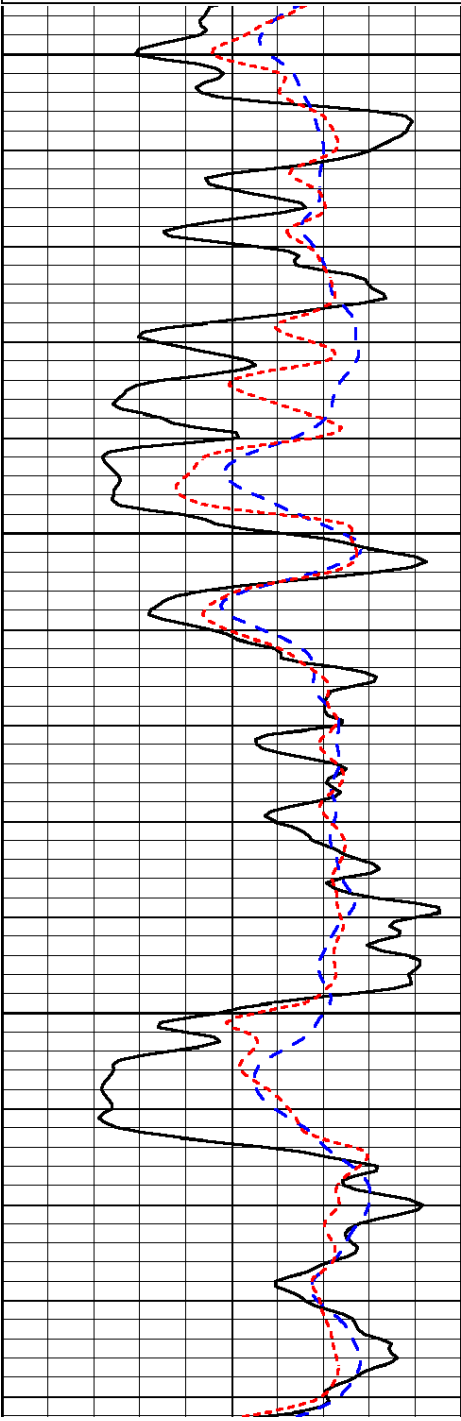
200	SP (mV)	0
-200		
-160	RxoRt	40

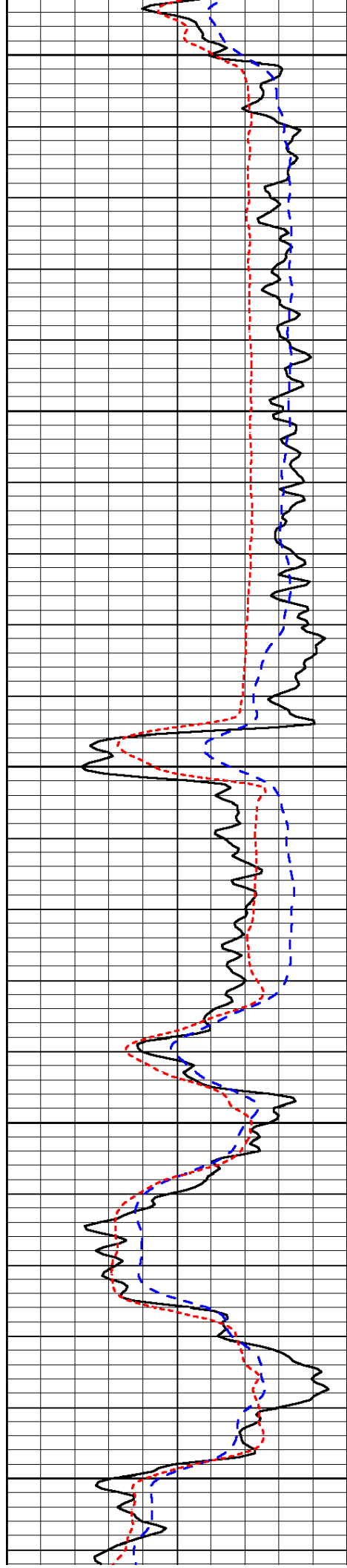
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File:	c:\warrior\data\as oil_warner a #1\asahd.db
Dataset Pathname:	dil/aasstk
Presentation Format:	dil
Dataset Creation:	Fri Dec 12 07:41:58 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		





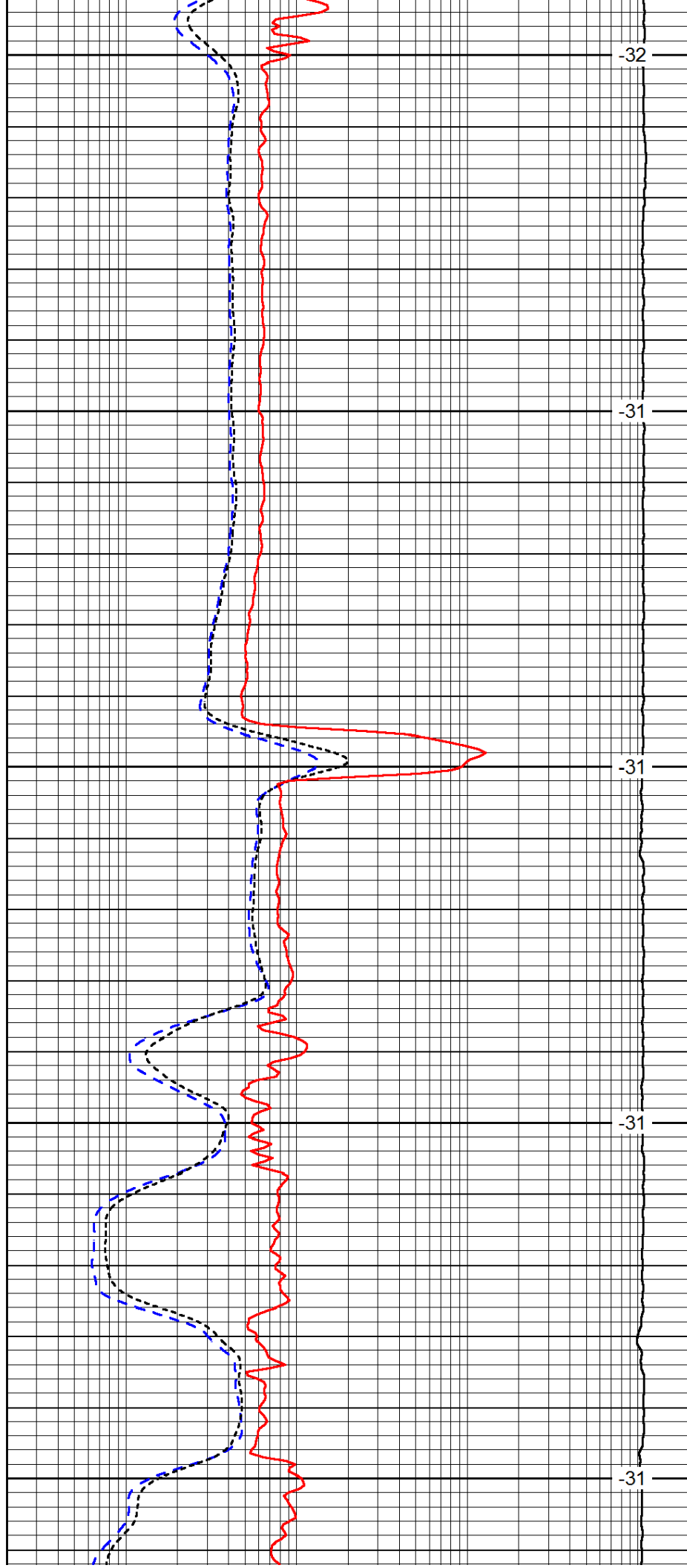
2150

2200

2250

2300

2350



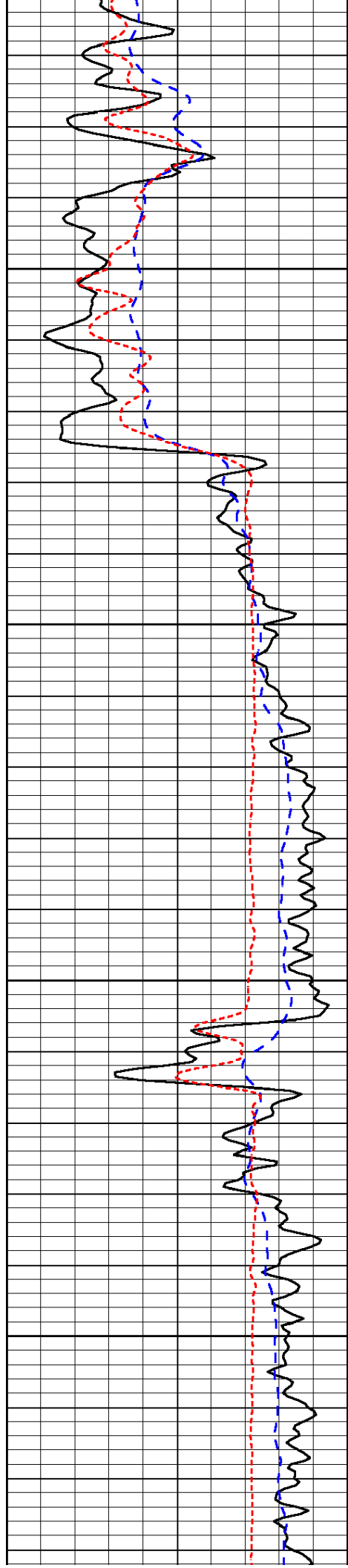
-32

-31

-31

-31

-31

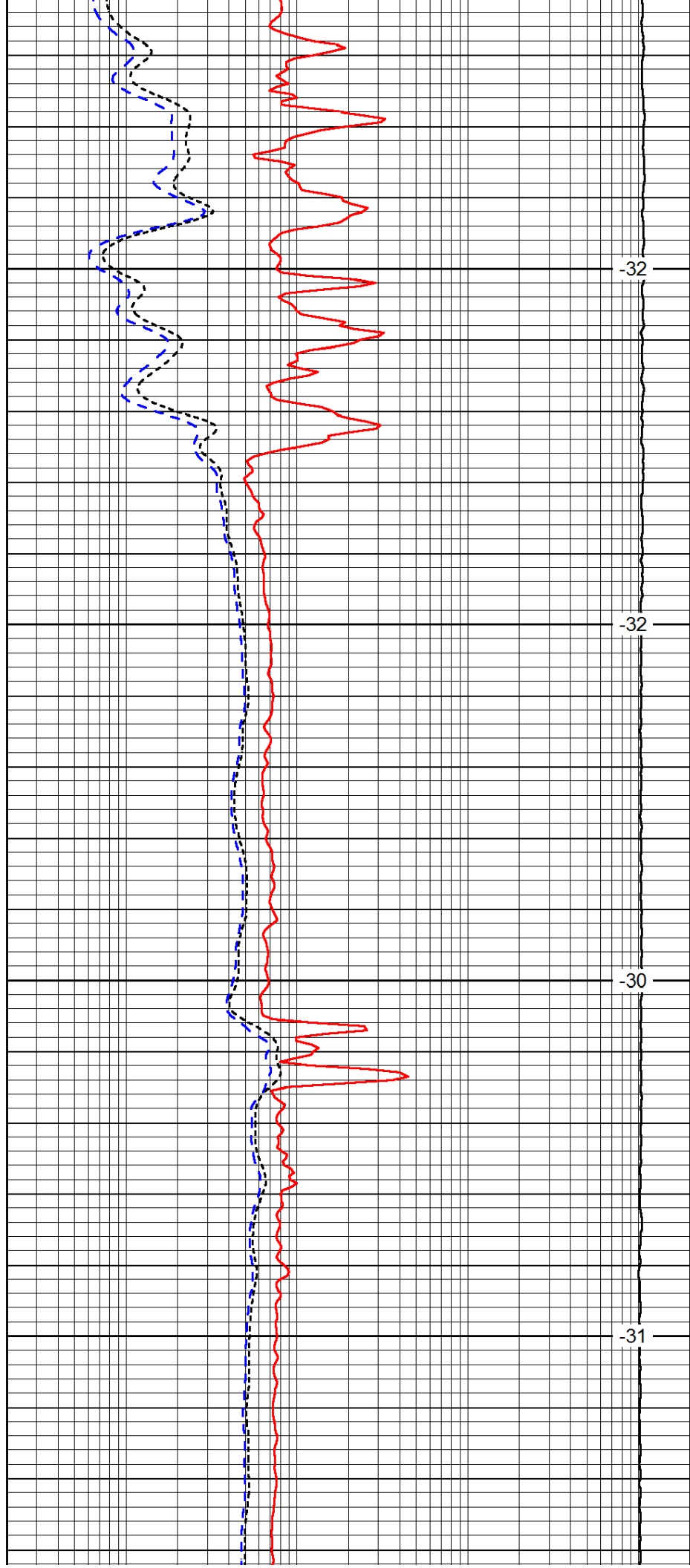


2400

2450

2500

2550

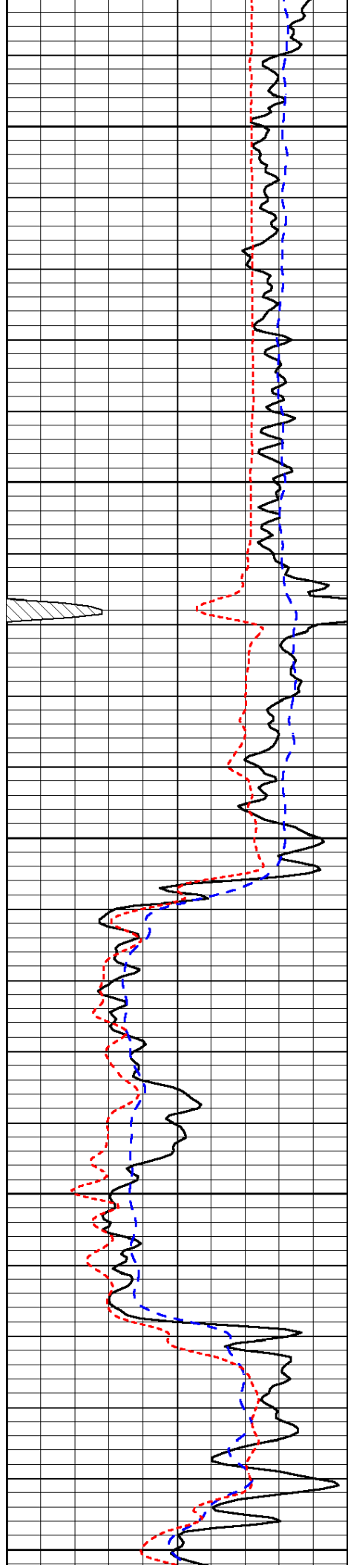


-32

-32

-30

-31



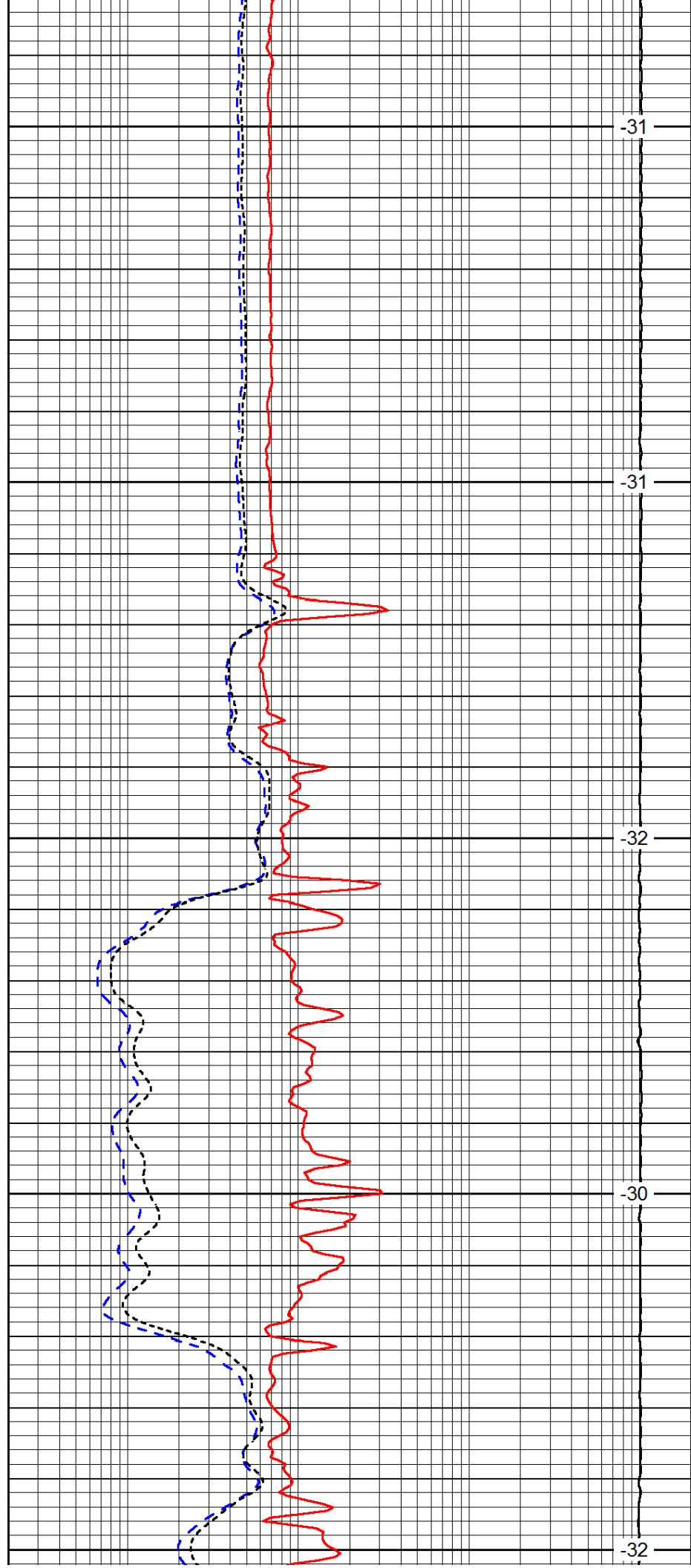
2600

2650

2700

2750

2800



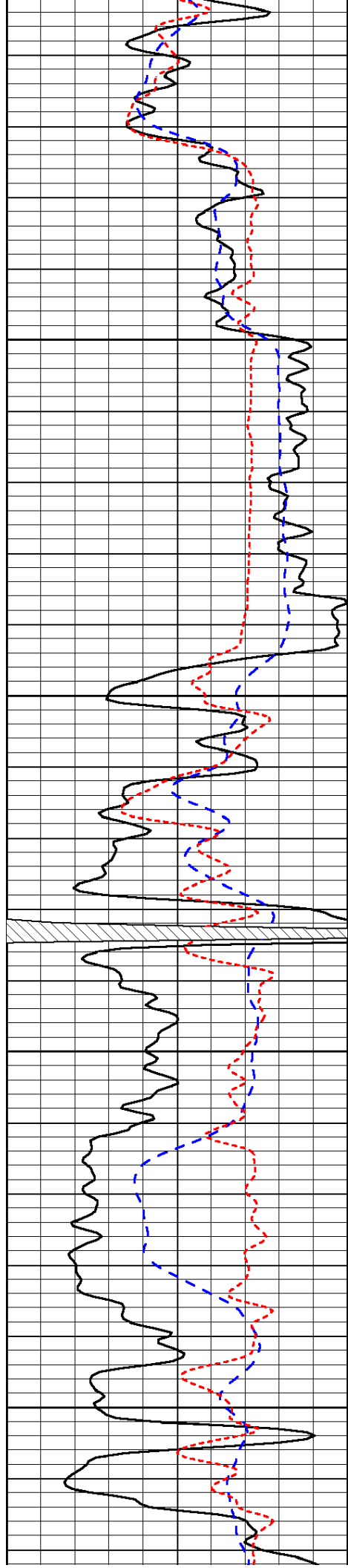
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-31

-32

-30

-32

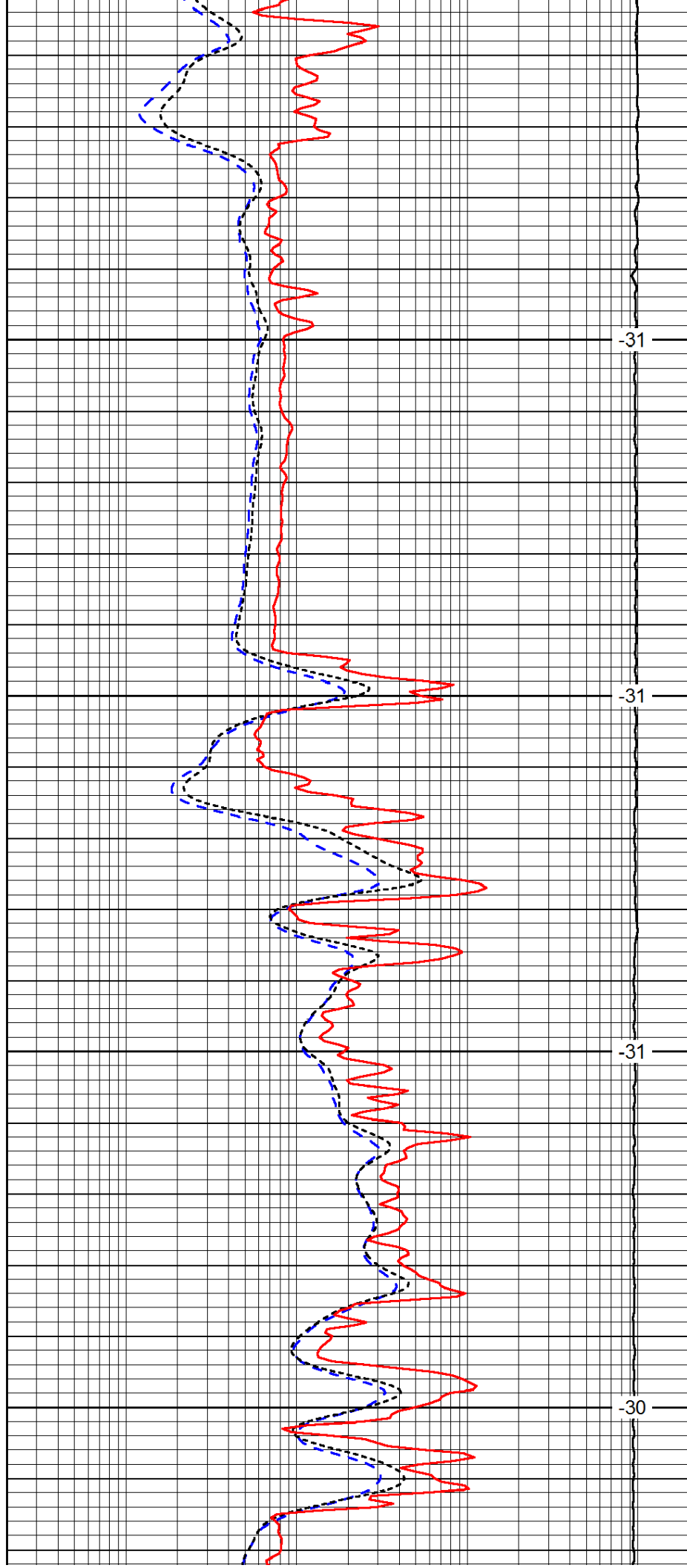


2850

2900

2950

3000

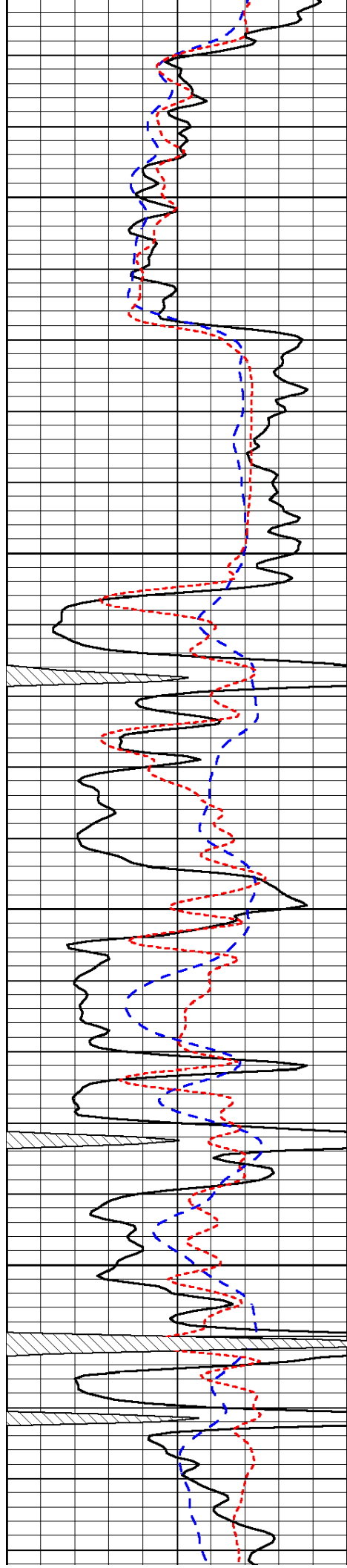


-31

-31

-31

-30

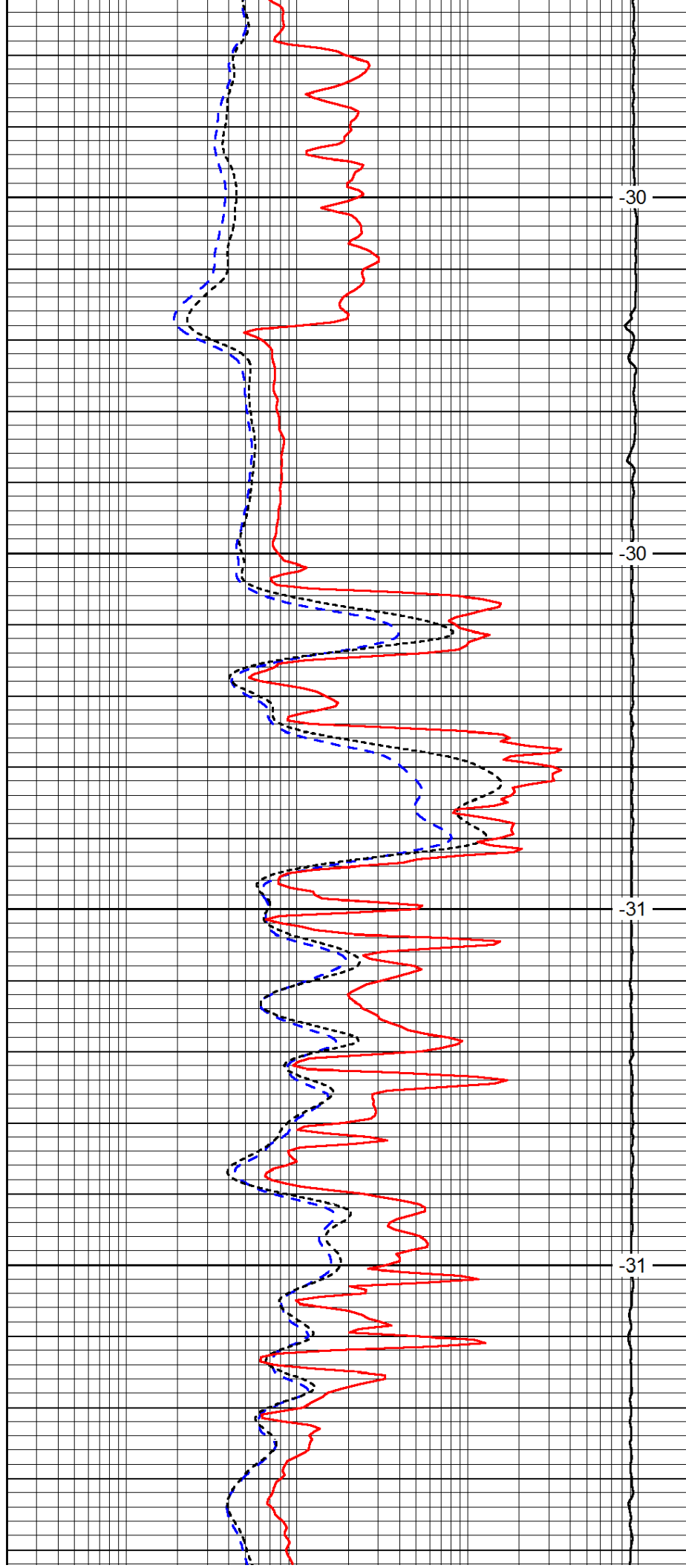


3050

3100

3150

3200

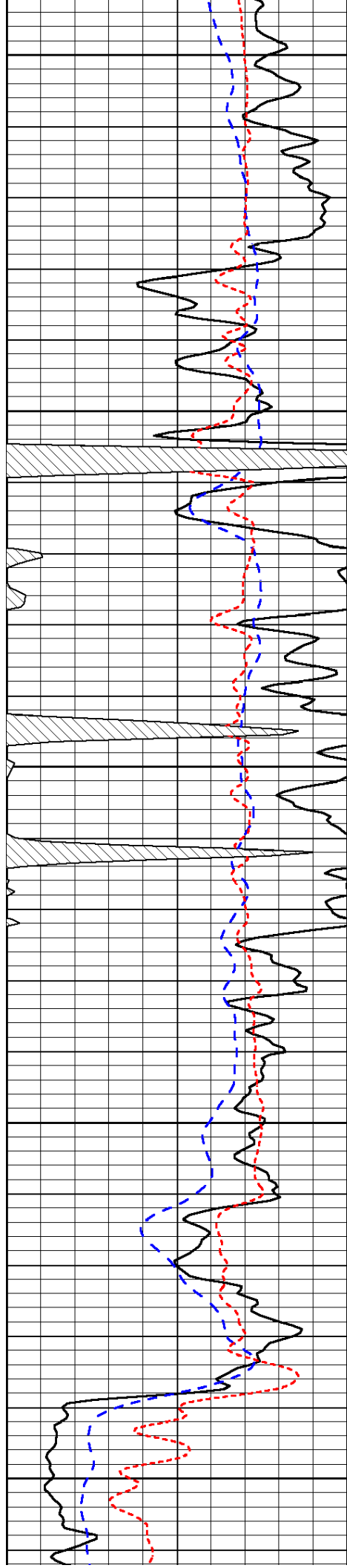


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-30

-31

-31



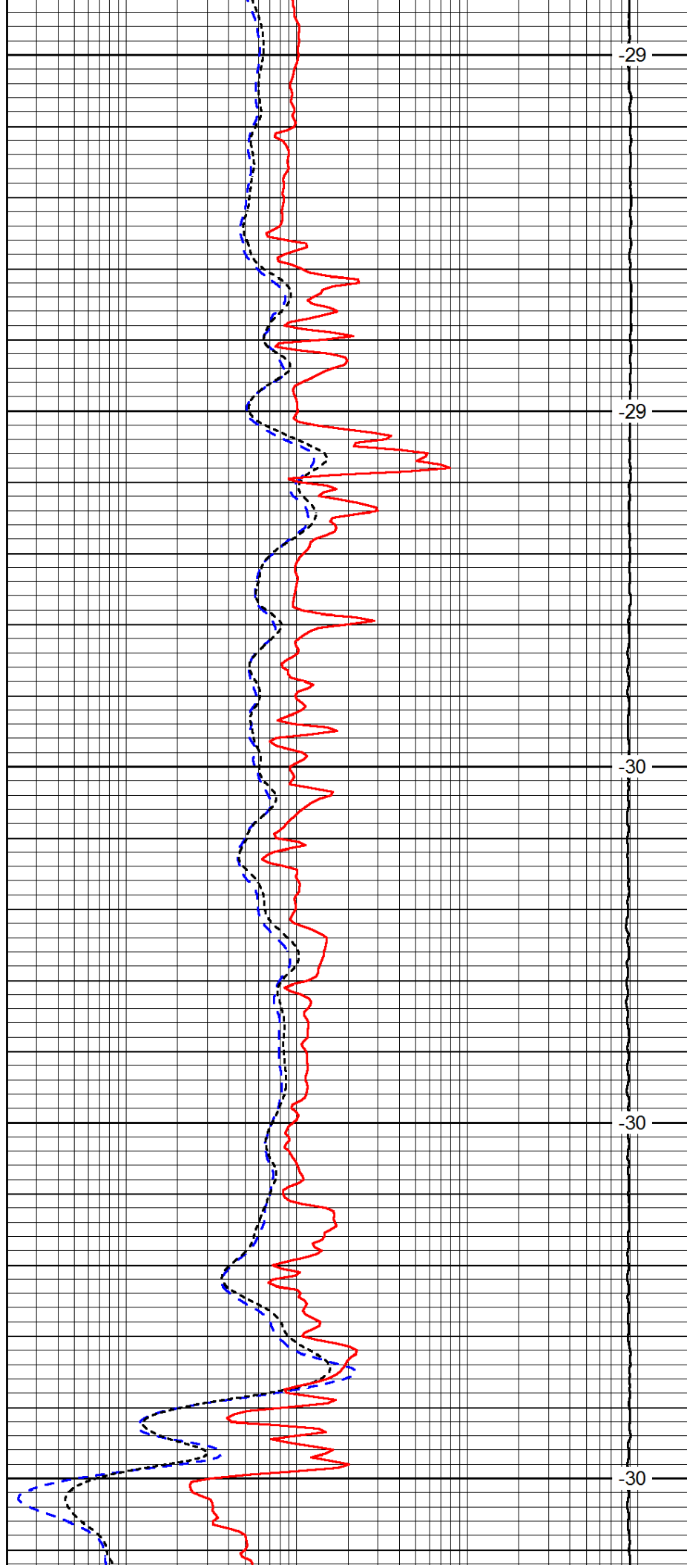
3250

3300

3350

3400

3450



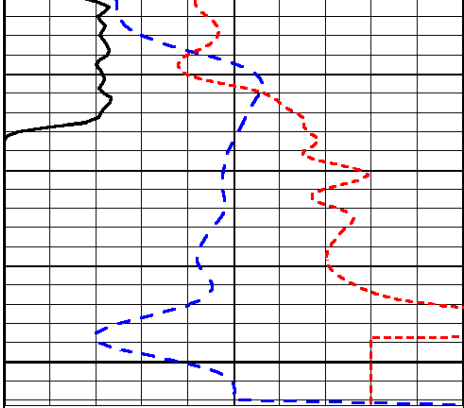
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-29

-30

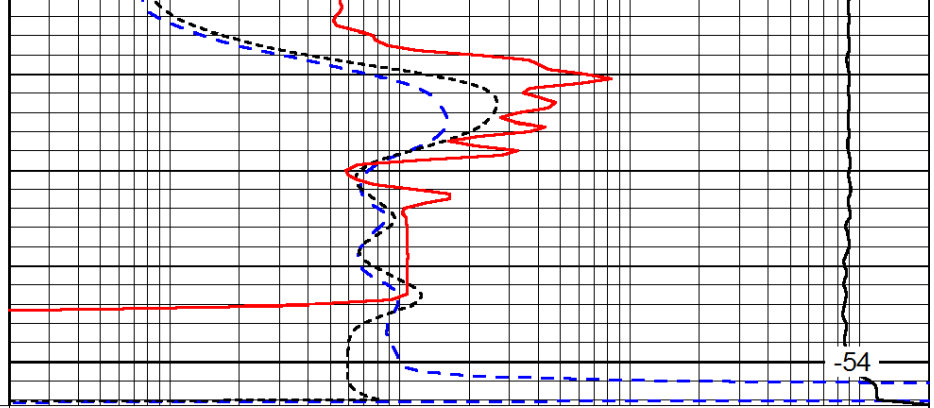
-30

-30



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

3500



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

LSPD