



Pioneer Energy Services

# Dual Induction Log

15-051-26,767-00-00

API No.

Company Hess Oil Company

Well Younger #1

Field Wildcat

County Ellis State

Kansas

Location

1795' FNL & 956' FWL

Other Services  
CNL/CDL

Sec: 35

Twp: 13S

Rge: 19W

Elevation

Permanent Datum Ground Level Elevation 2169  
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

K.B. 2174  
D.F. 2169  
G.L. 2169

Date 12/23/2014

Run Number One

Depth Driller 3925

Depth Logger 3923

Bottom Logged Interval 3922

Top Log Interval 200

Casing Driller 8.625 @ 209

Casing Logger 210

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2.500

Density / Viscosity 9.2 57

pH / Fluid Loss 11.0 7.4

Source of Sample Flowline

Rm @ Meas. Temp .55 @ 45

Rmf @ Meas. Temp .41 @ 45

Rmc @ Meas. Temp .74 @ 45

Source of Rmf / Rmc Charts

Rm @ BHT .21 @ 115

Operating Rig Time 2 Hours

Max Rec. Temp. F 115

Equipment Number 51

Location Hays

Recorded By C. Desaire

Witnessed By David Gould

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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

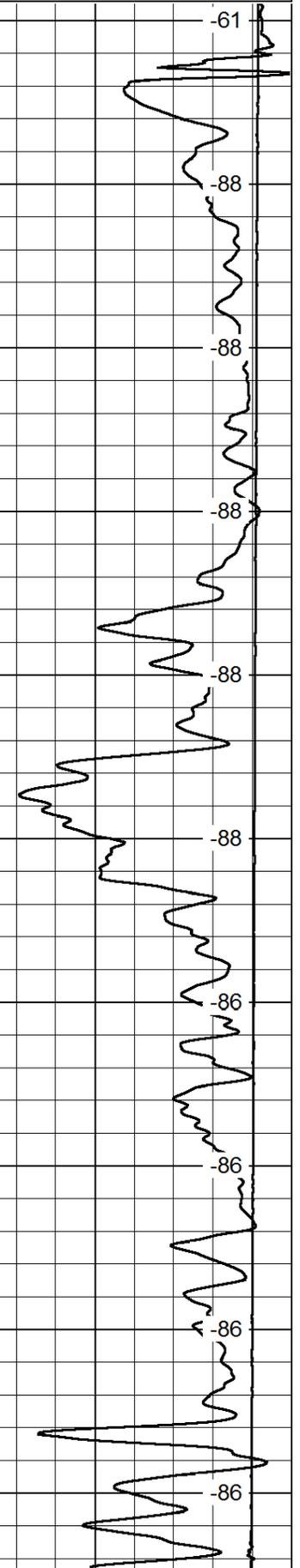
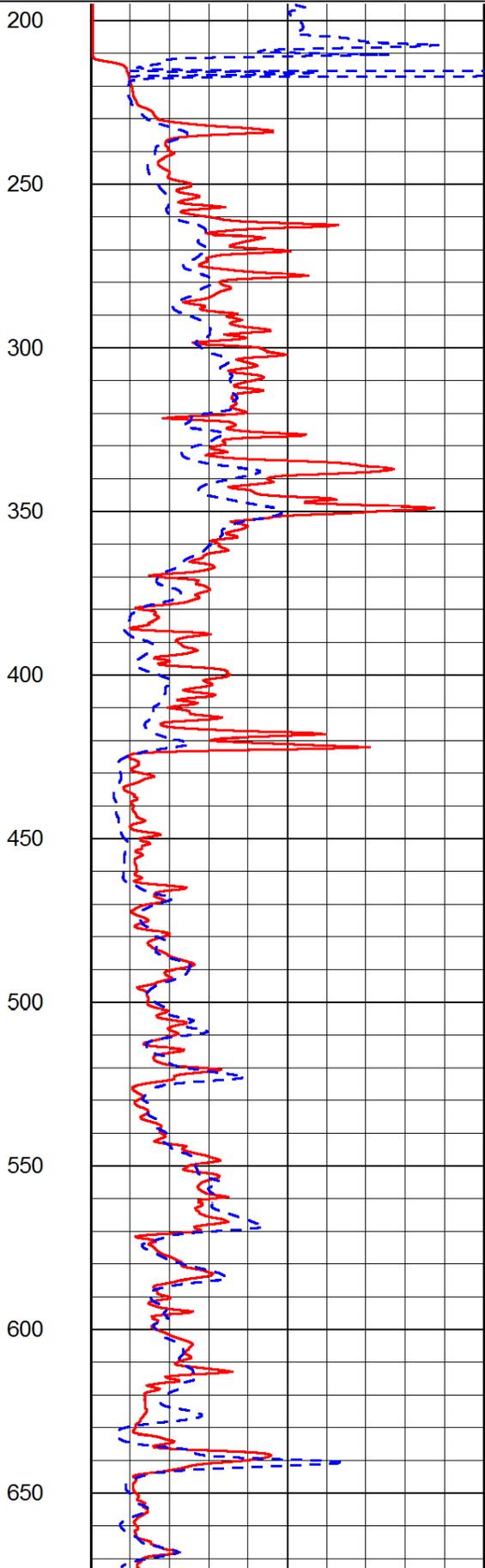
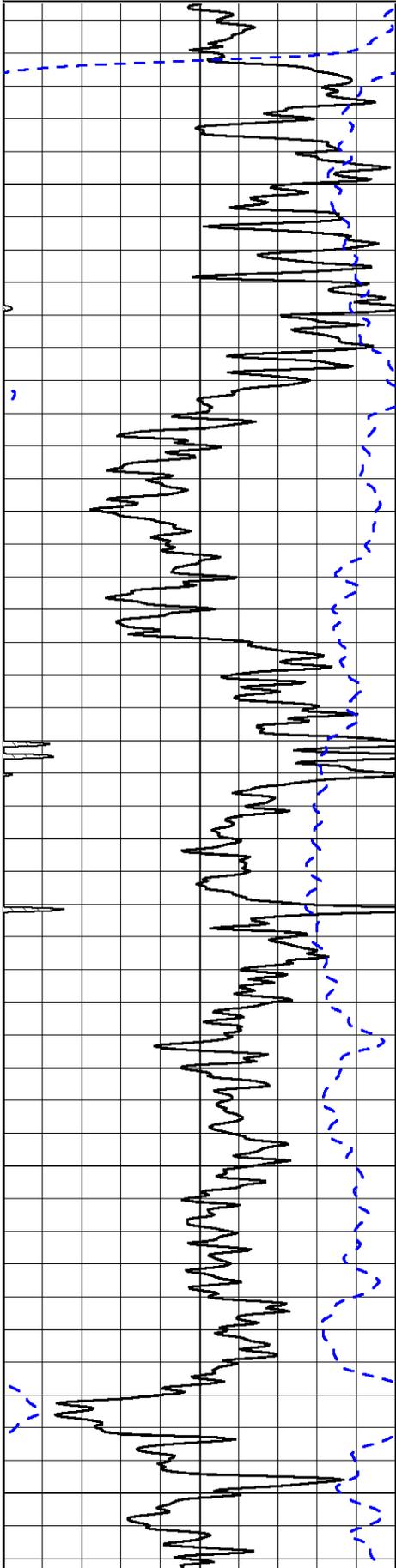
Hays KS, W on Hwy 40 to 210th Ave,  
1 1/4 S, W uphill, left at Y, follow rd 1/2 mile

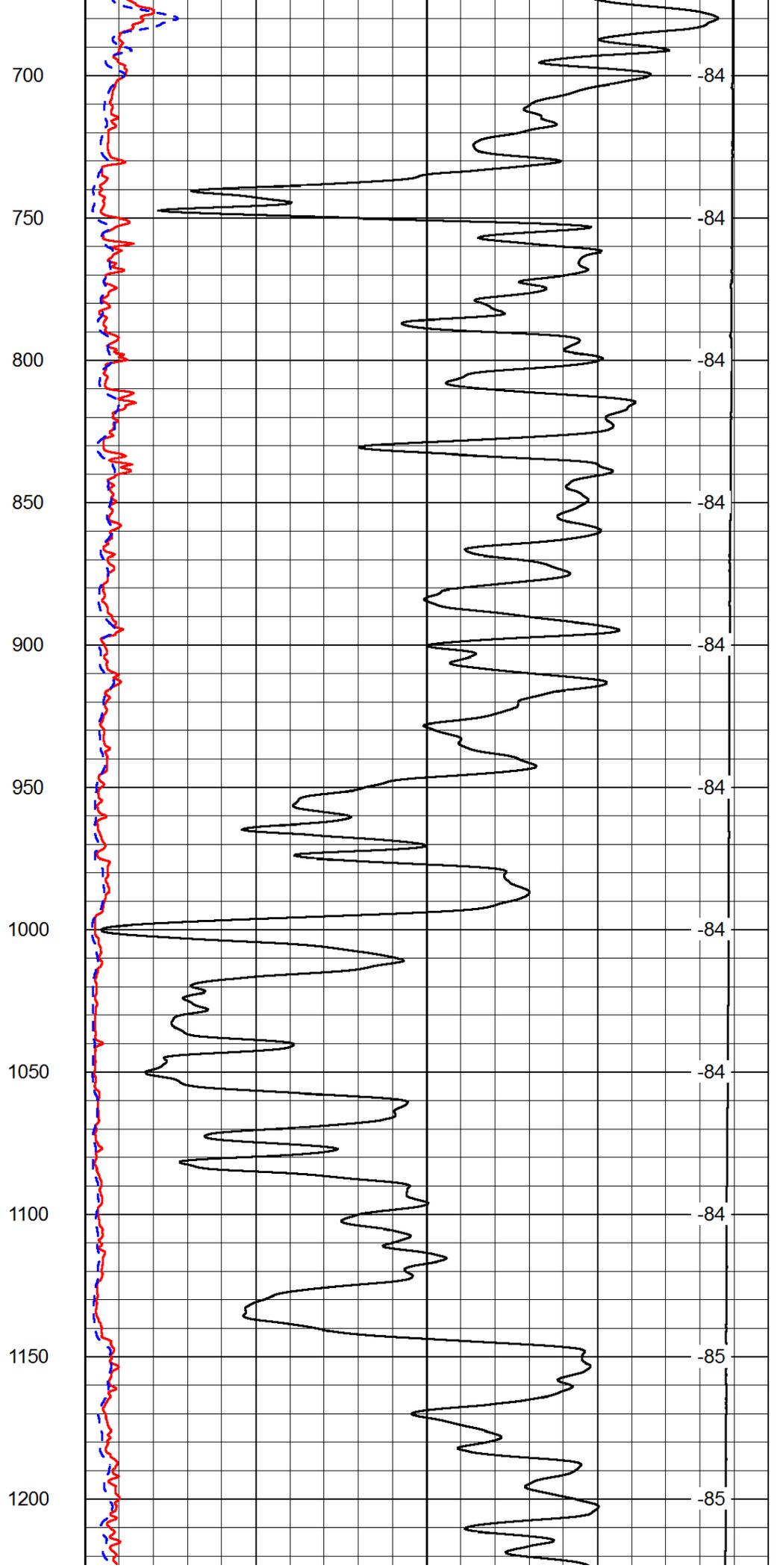
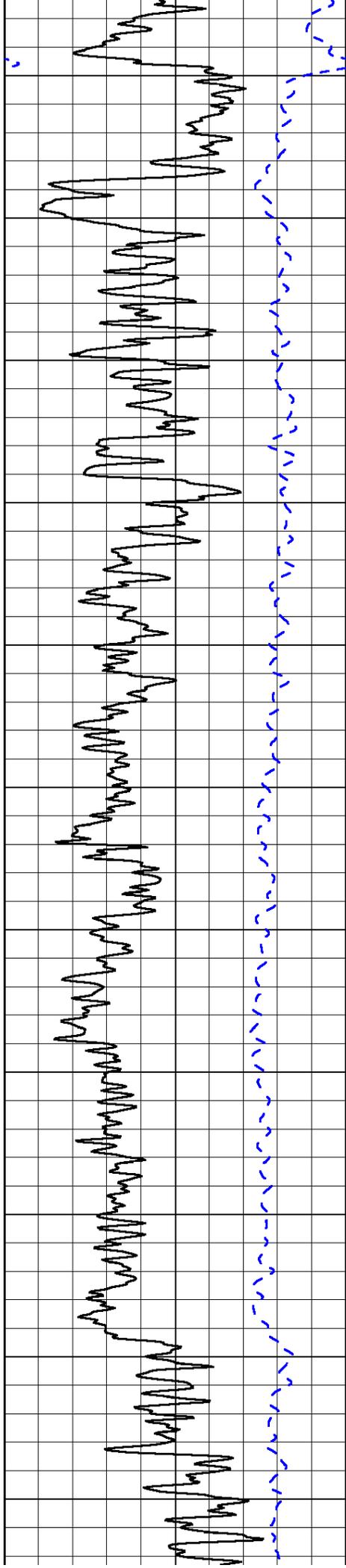
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Presentation Format: dil2in  
Dataset Creation: Tue Dec 23 19:33:58 2014  
Charted by: Depth in Feet scaled 1:600

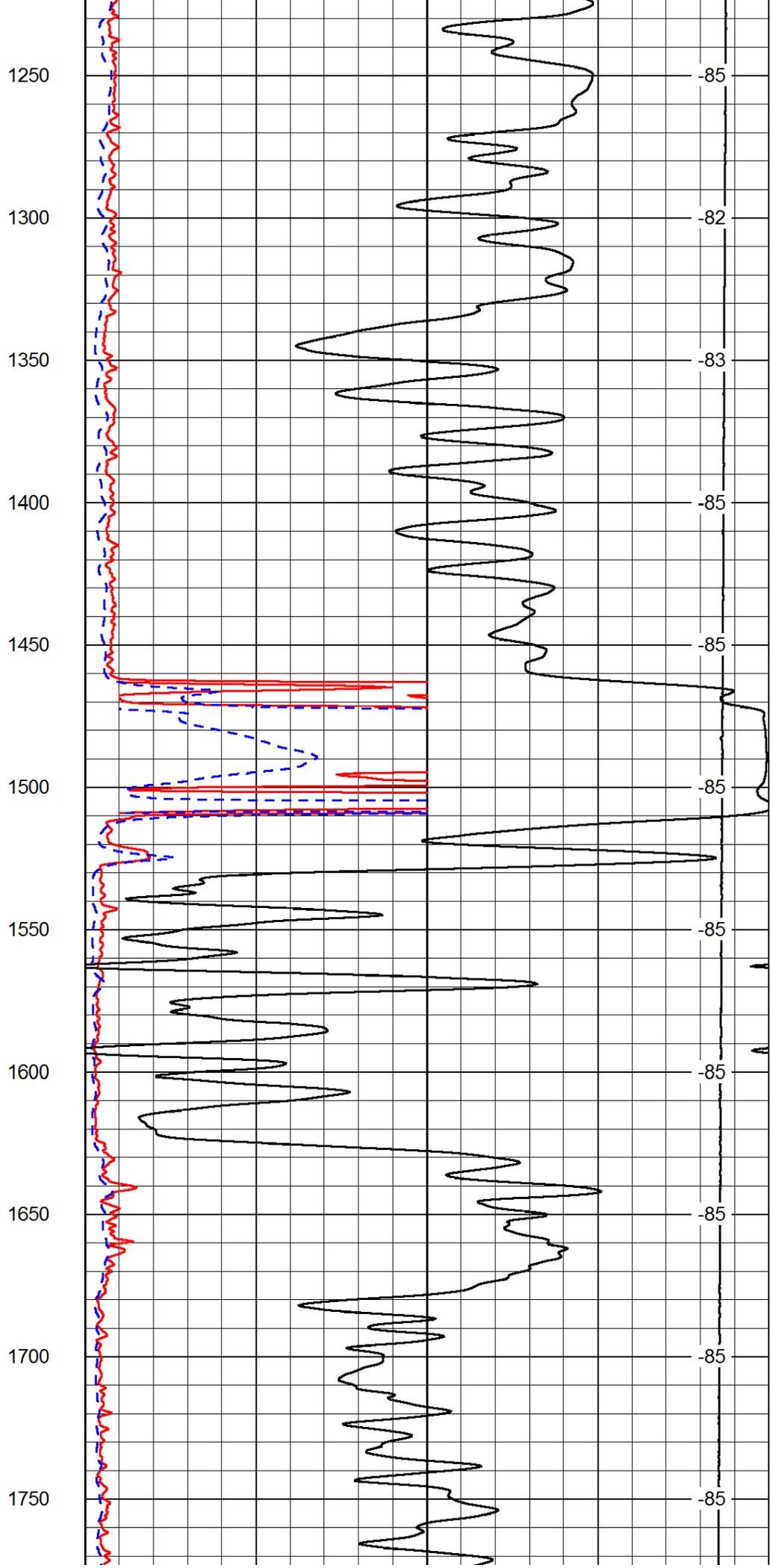
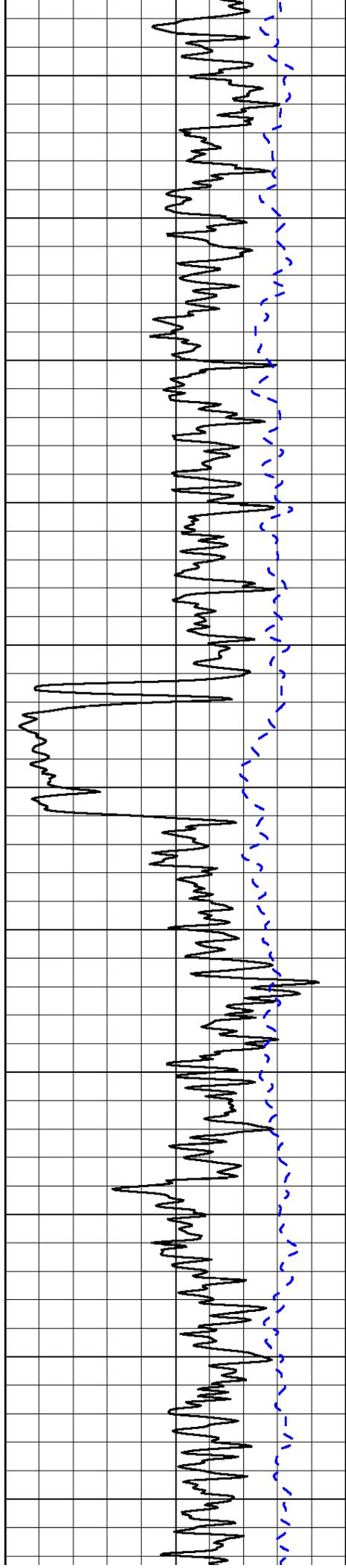
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-200 SP (mV) 0

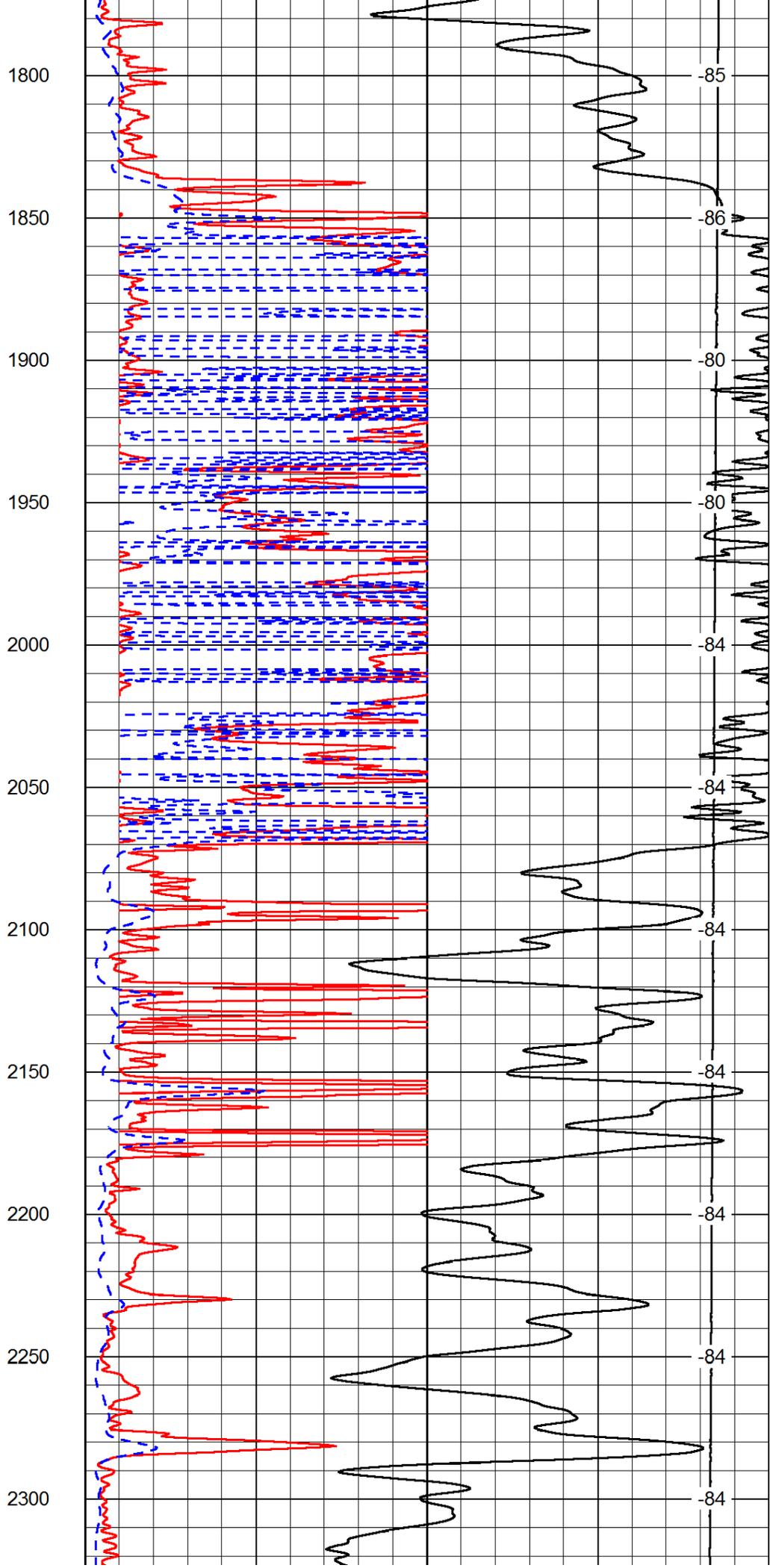
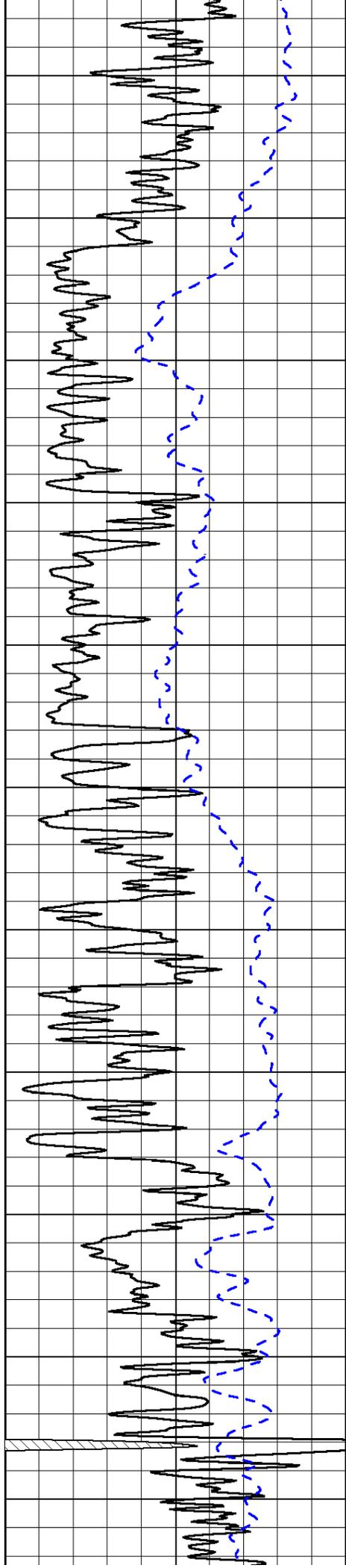
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0 Deep Resistivity 50  
1000 Conductivity 0  
15000 Line Tension 0  
50 Shallow Resistivity 500  
50 Deep Resistivity 500

LSPD

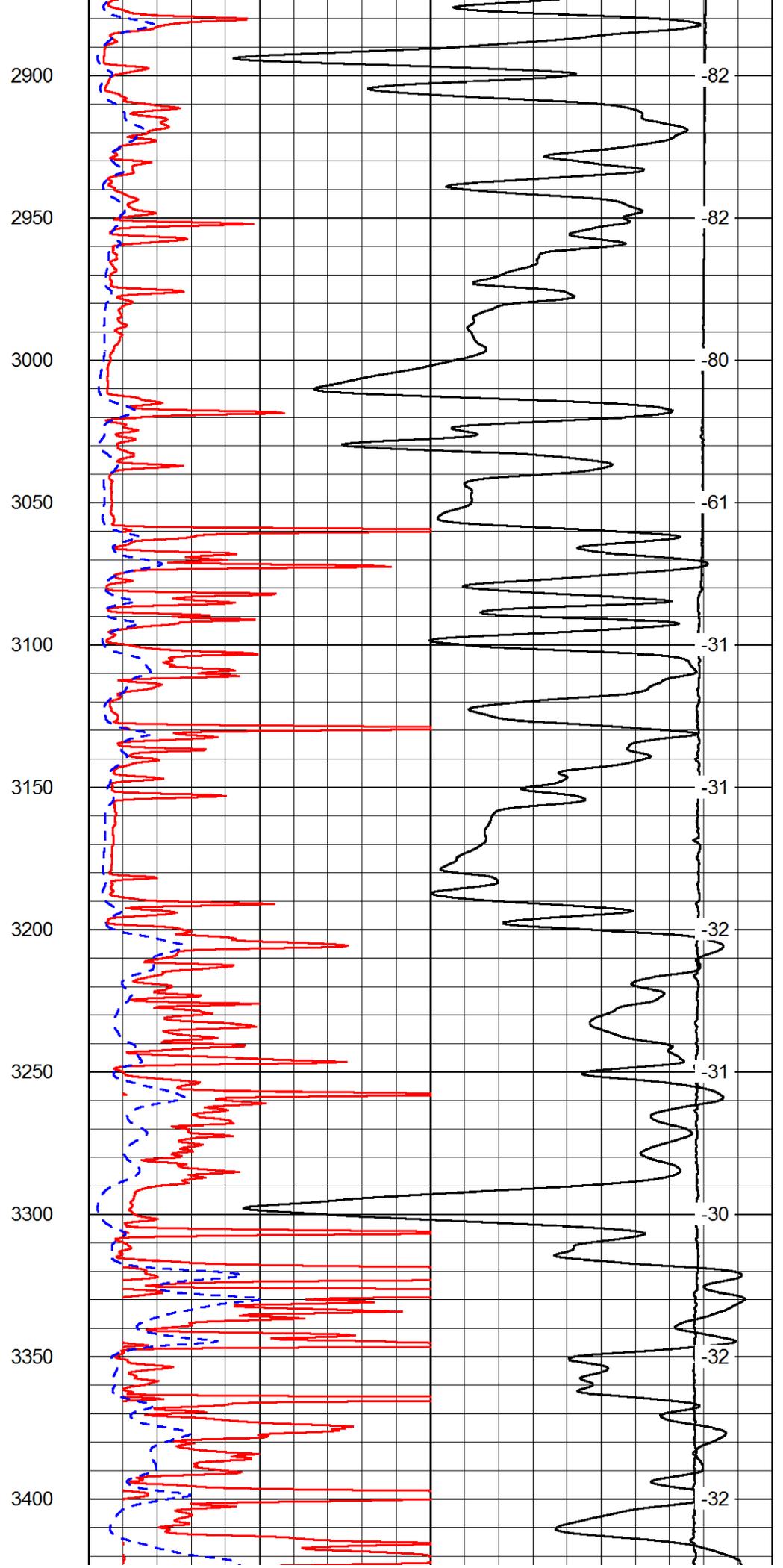
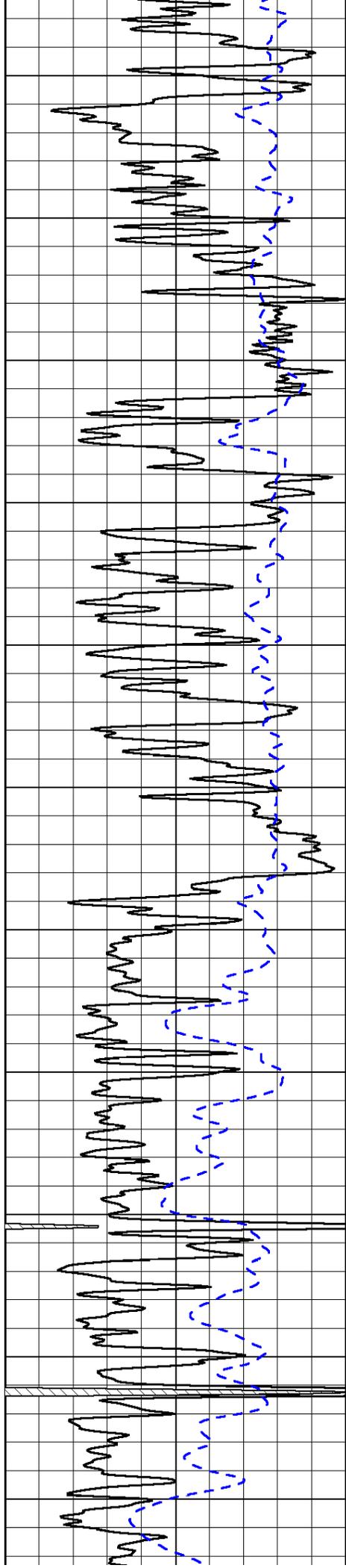


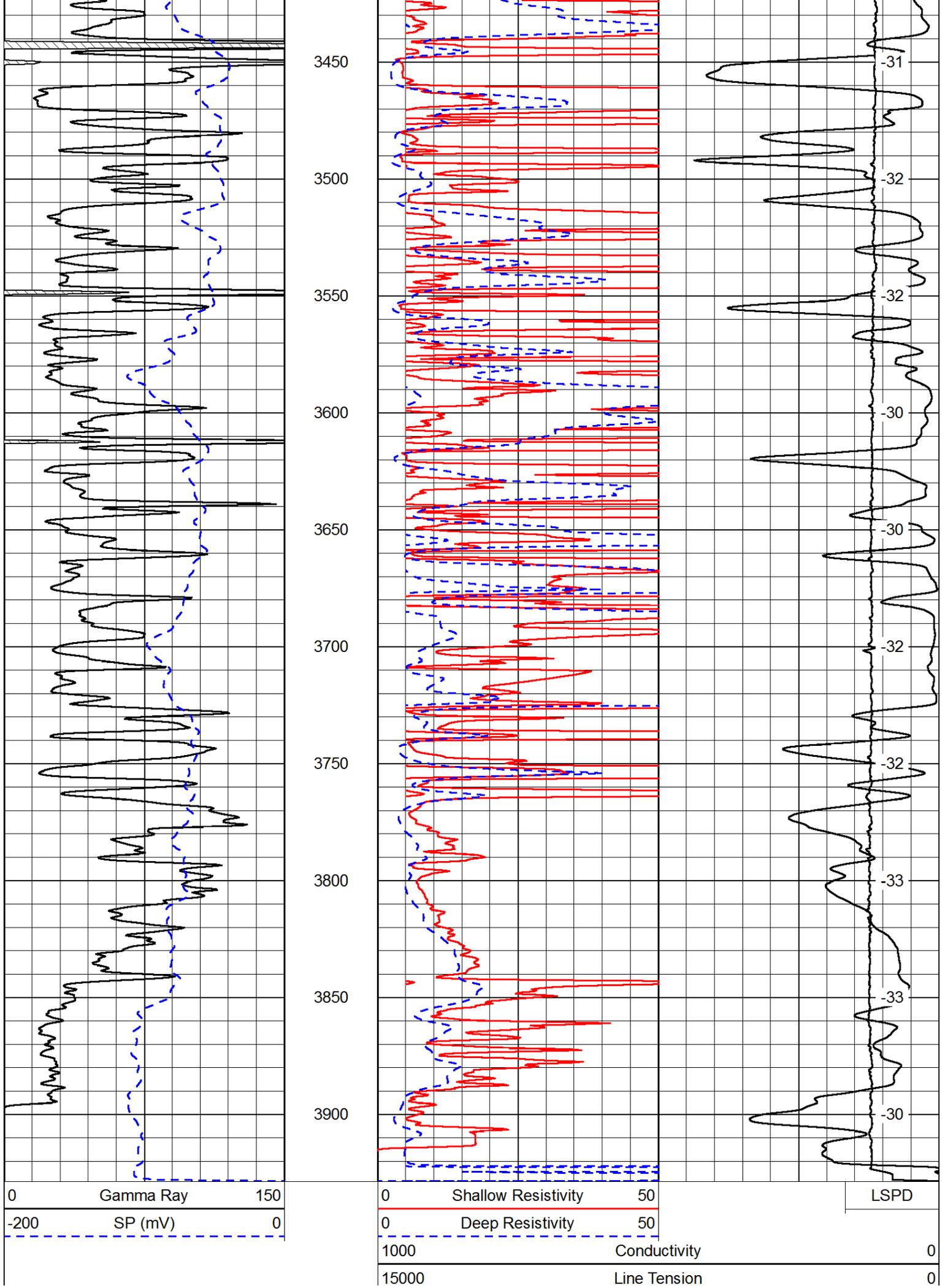












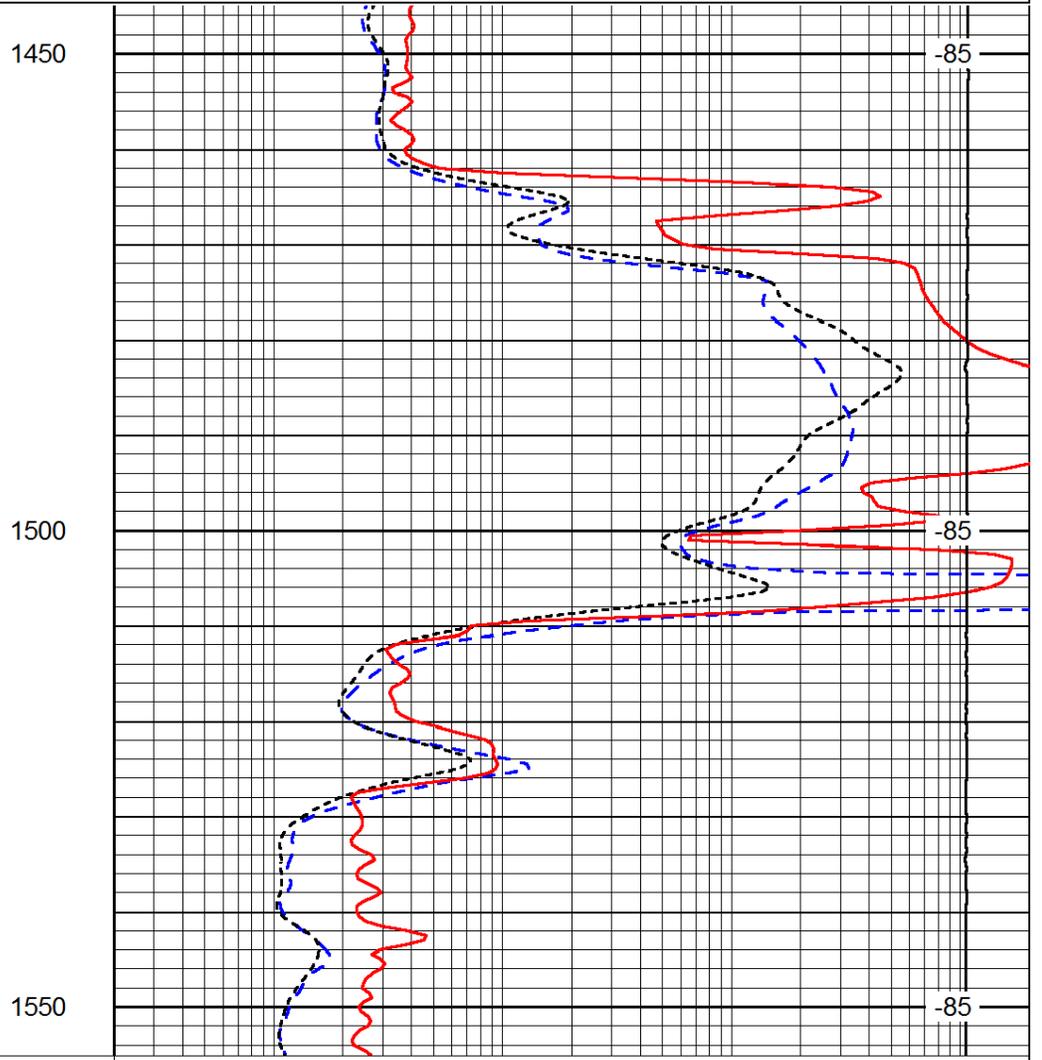
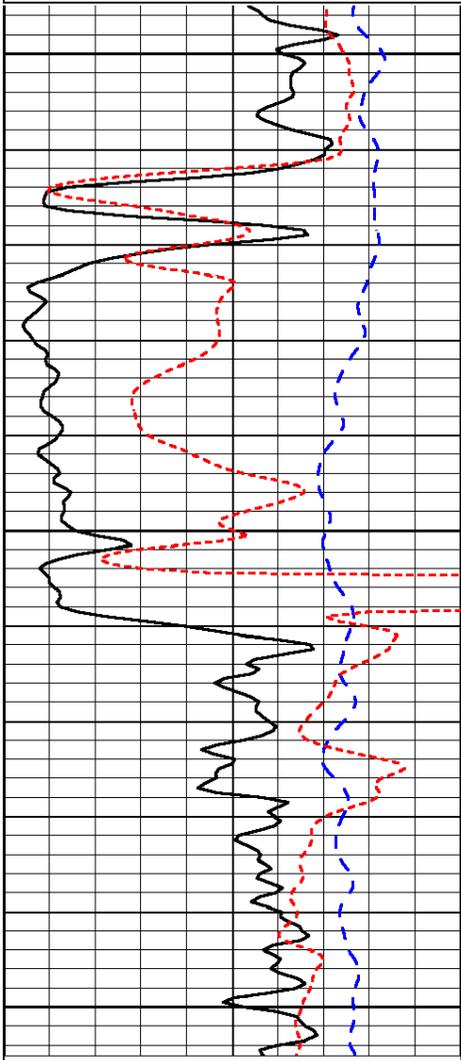
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50	Deep Resistivity	500

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 Presentation Format: dil  
 Dataset Creation: Tue Dec 23 19:33:58 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



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

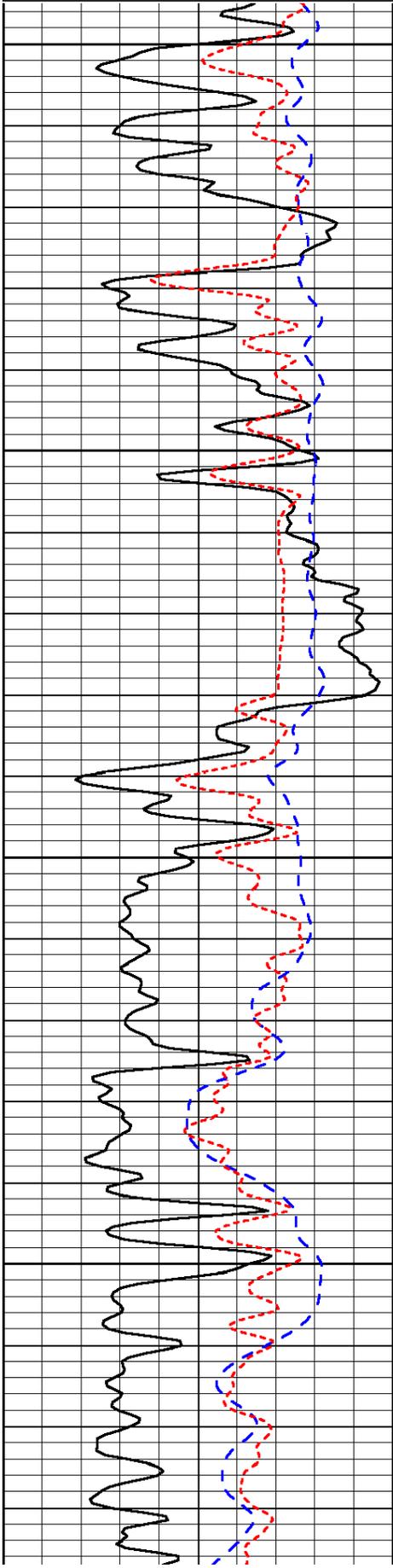
LSPD

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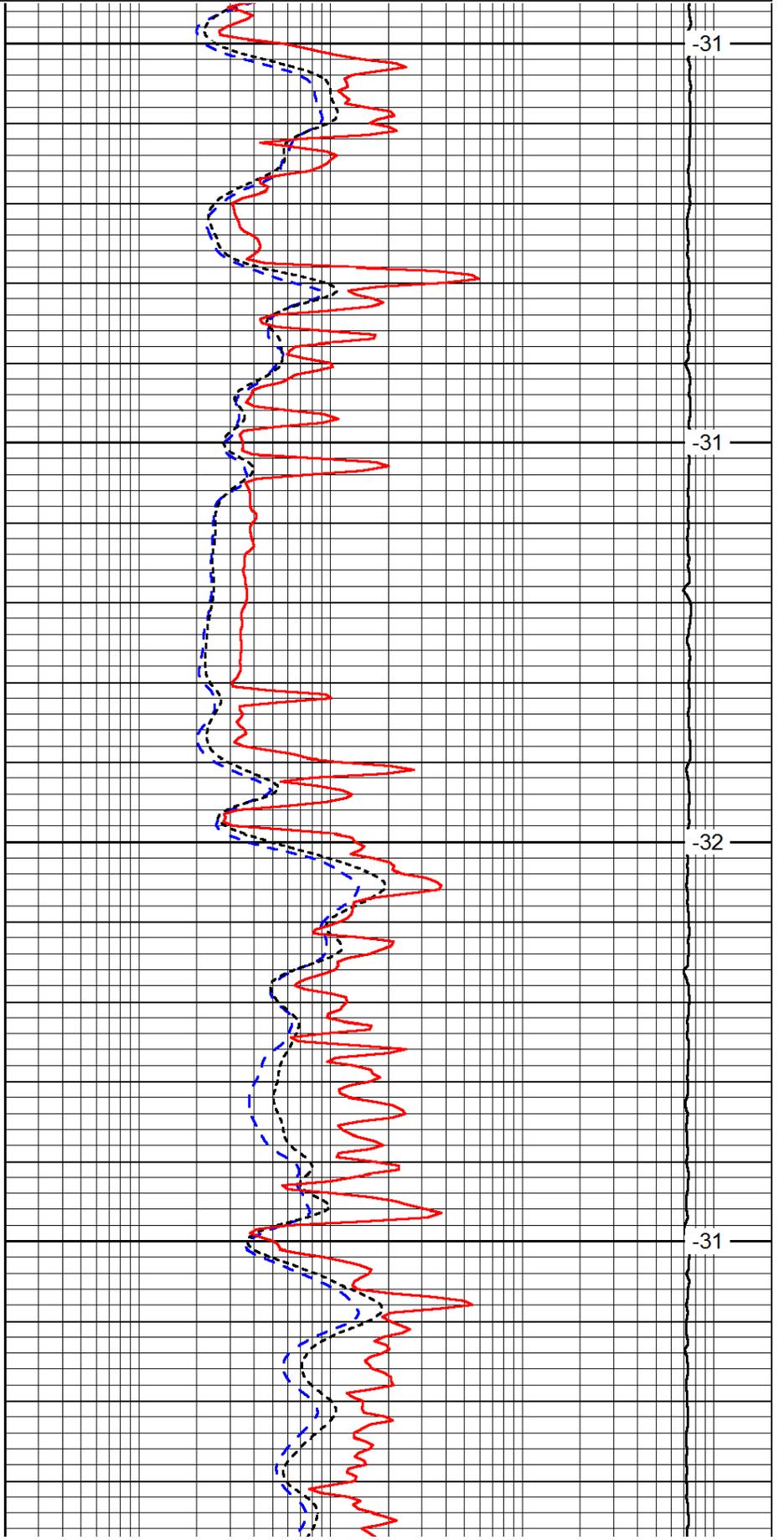
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-200	SP (mV)	0
-160	RxoRt	40

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

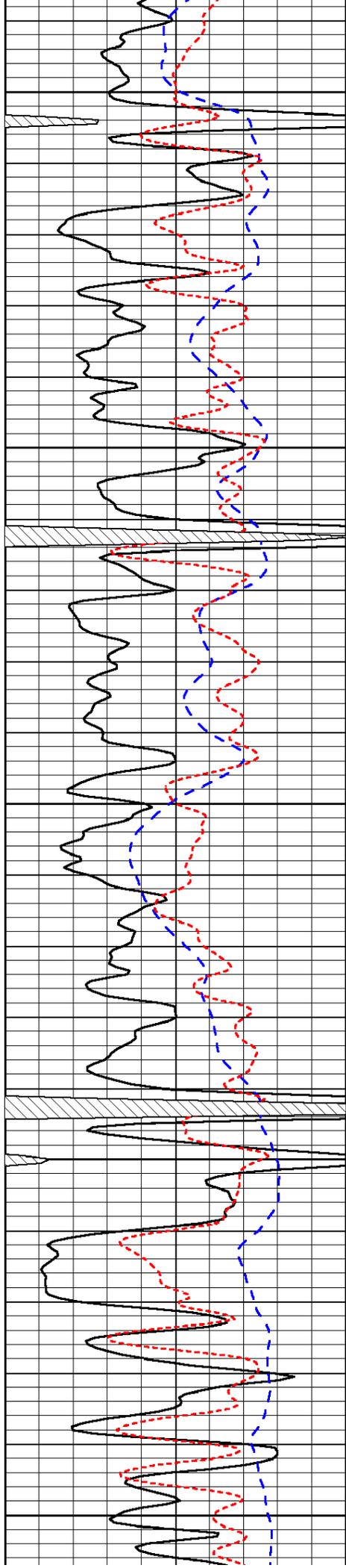
LSPD



3100  
3150  
3200  
3250



-31  
-31  
-32  
-31



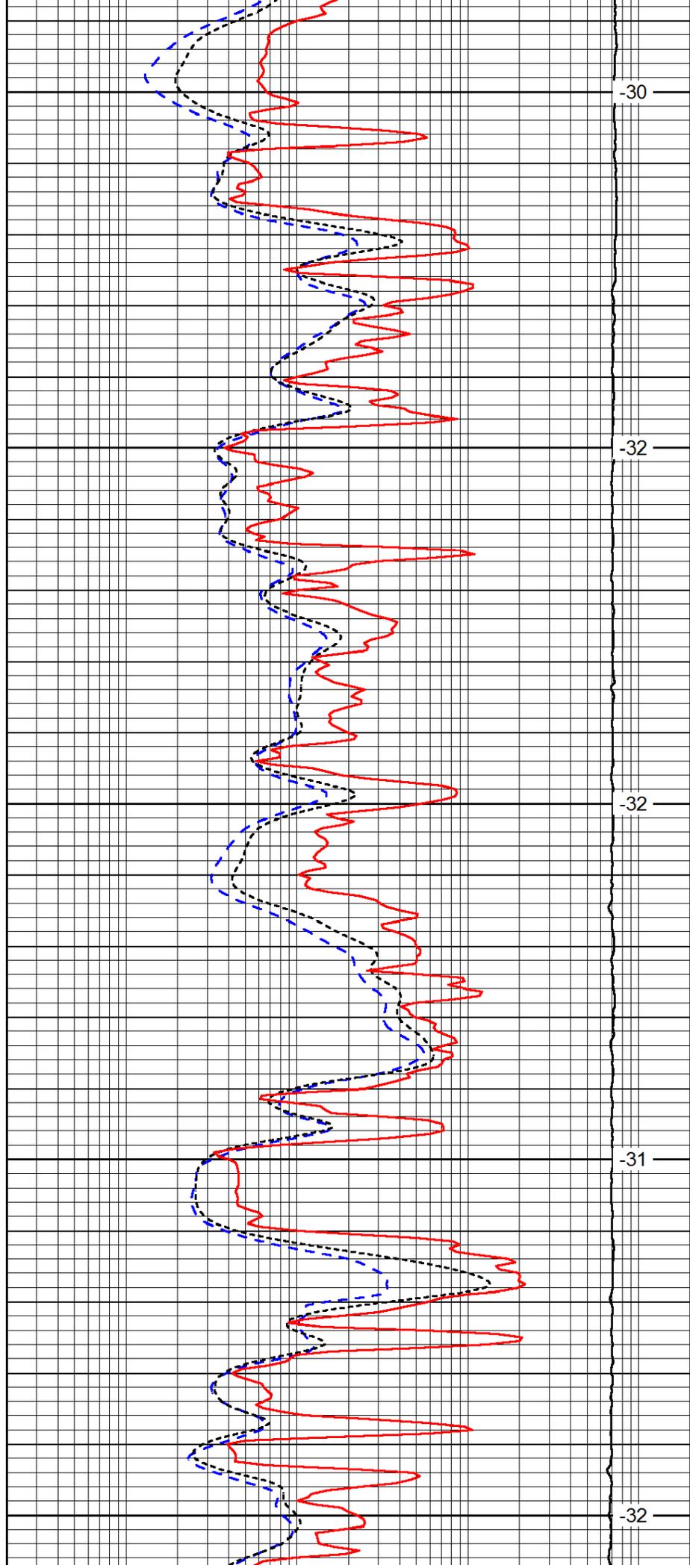
3300

3350

3400

3450

3500



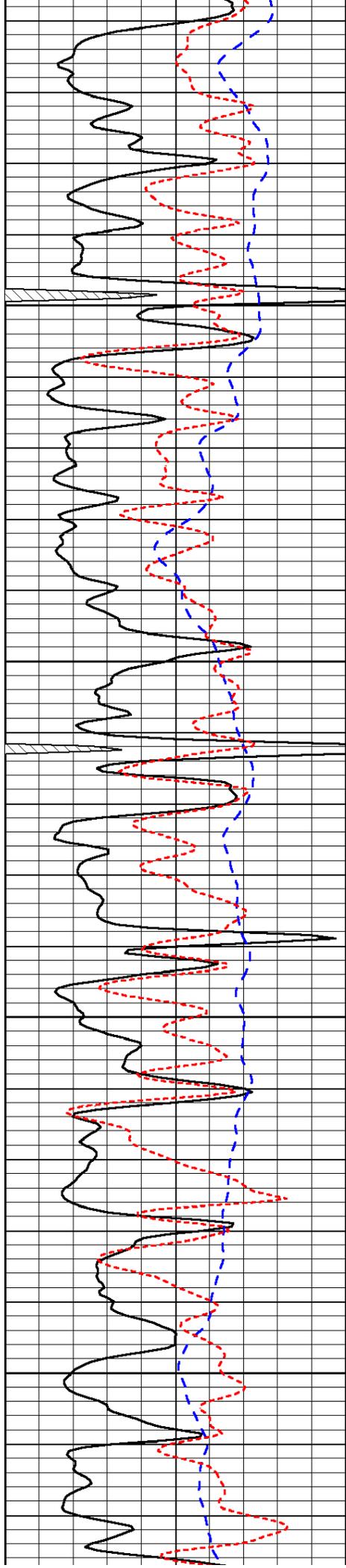
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-32

-32

-31

-32

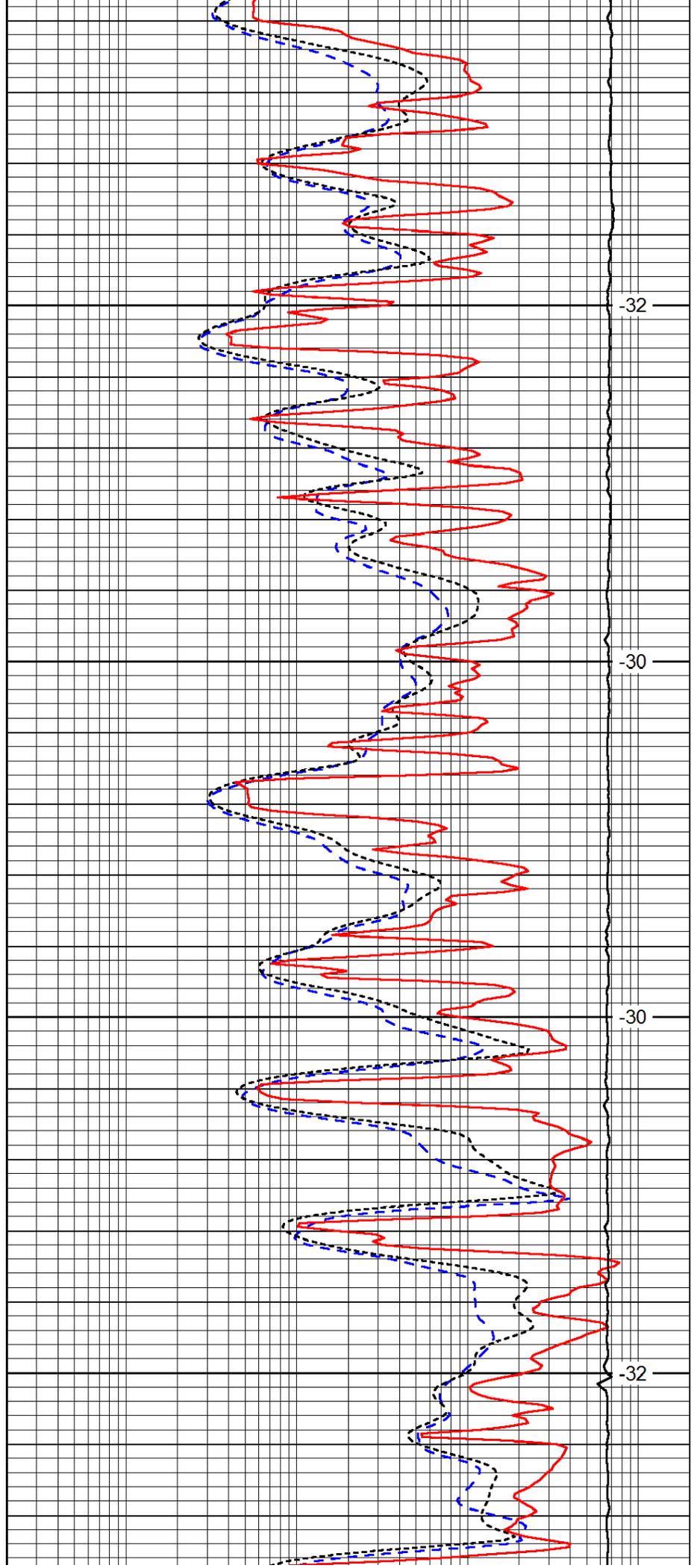


3550

3600

3650

3700

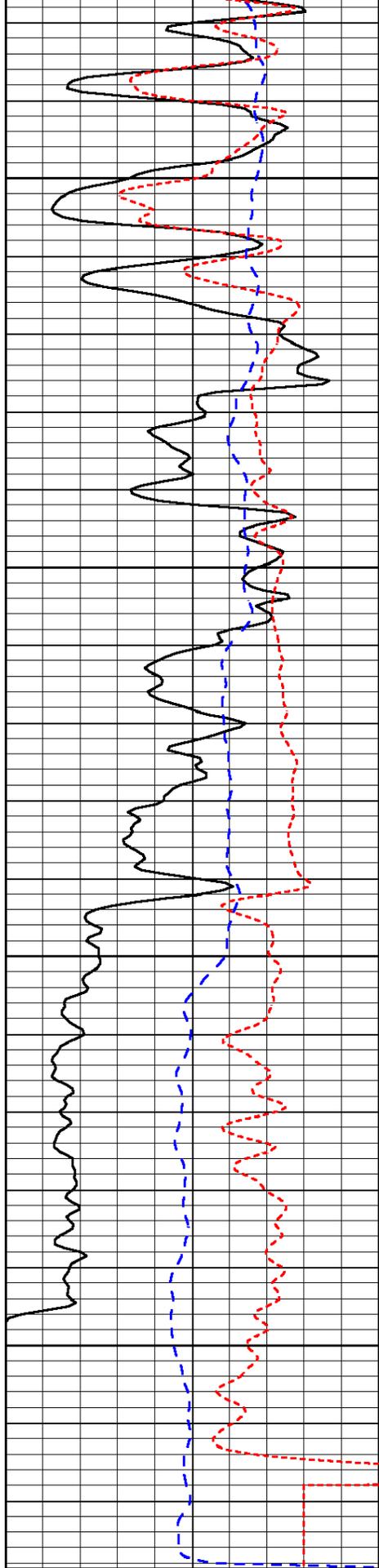


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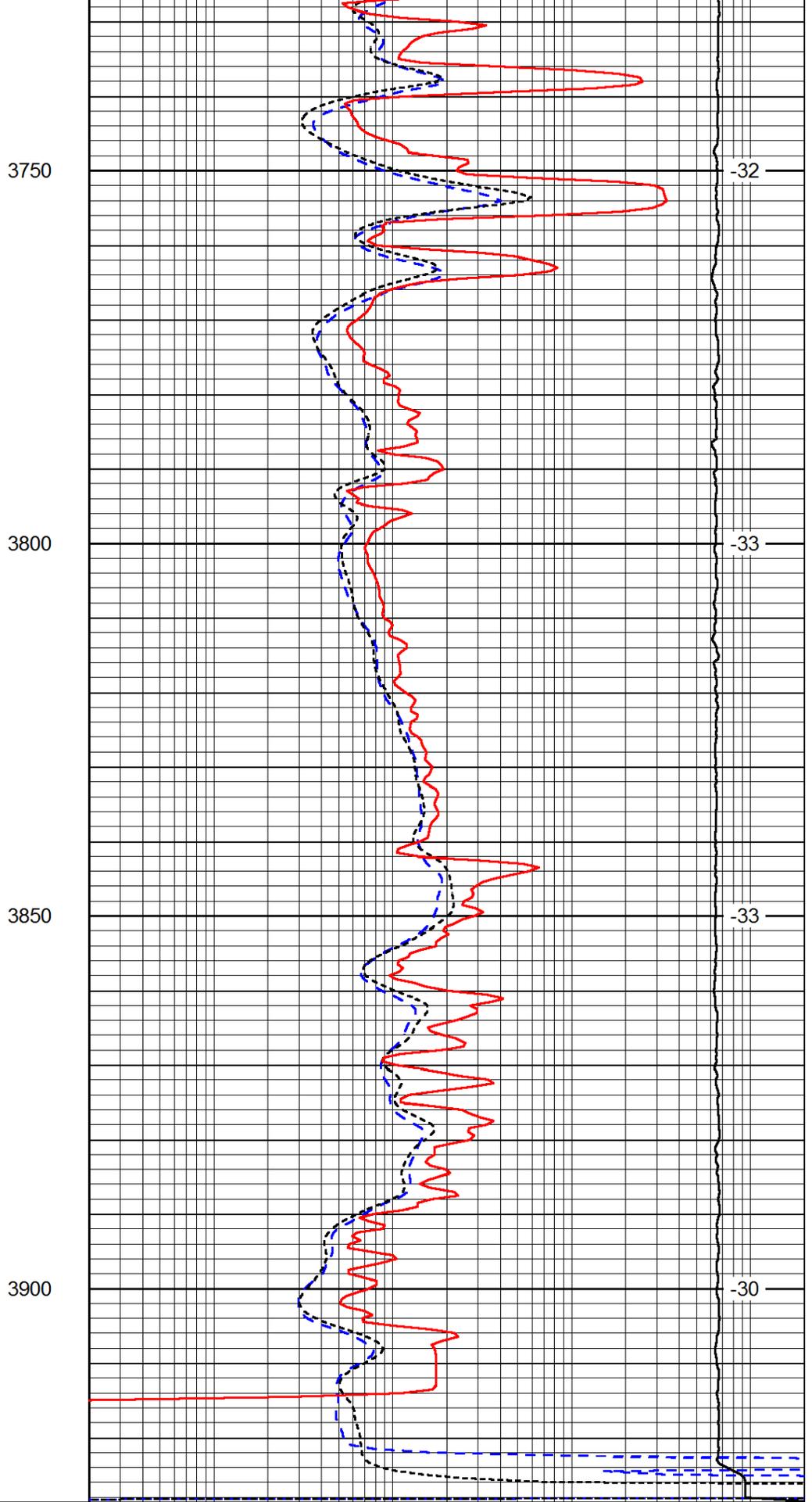
-30

-30

-32



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