



Dual Induction Log

Pioneer Energy Services

API No.

15-159-22,799-00-00

Company **Carrie Exploration & Development, LLC**

Well **Brian #C-1**

Field **None**

County **Rice** State **Kansas**

Location

**W/2 NW NE SW
2310' FSL & 1445' FWL**

Other Services
CNL/CDL
MEL

Sec: **26**

Twp: **20S**

Rge: **10W**

Elevation

K.B. 1792
D.F. 1783
G.L. 1783

Permanent Datum **Ground Level** Elevation **1783**
Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Date **10/17/2014**

Run Number **One**

Depth Driller **3415**

Depth Logger **3408**

Bottom Logged Interval **3407**

Top Log Interval **300**

Casing Driller **8.625 @ 305**

Casing Logger **303**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **6000**

Density / Viscosity **9.1 58**

pH / Fluid Loss **9.5 N/A**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.60 @ 70**

Rmf @ Meas. Temp **0.45 @ 70**

Rmc @ Meas. Temp **0.81 @ 70**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.38 @ 110**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **110**

Equipment Number **15**

Location **Hays**

Recorded By **D.Kerr**

Witnessed By **Jeff Burk**

Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

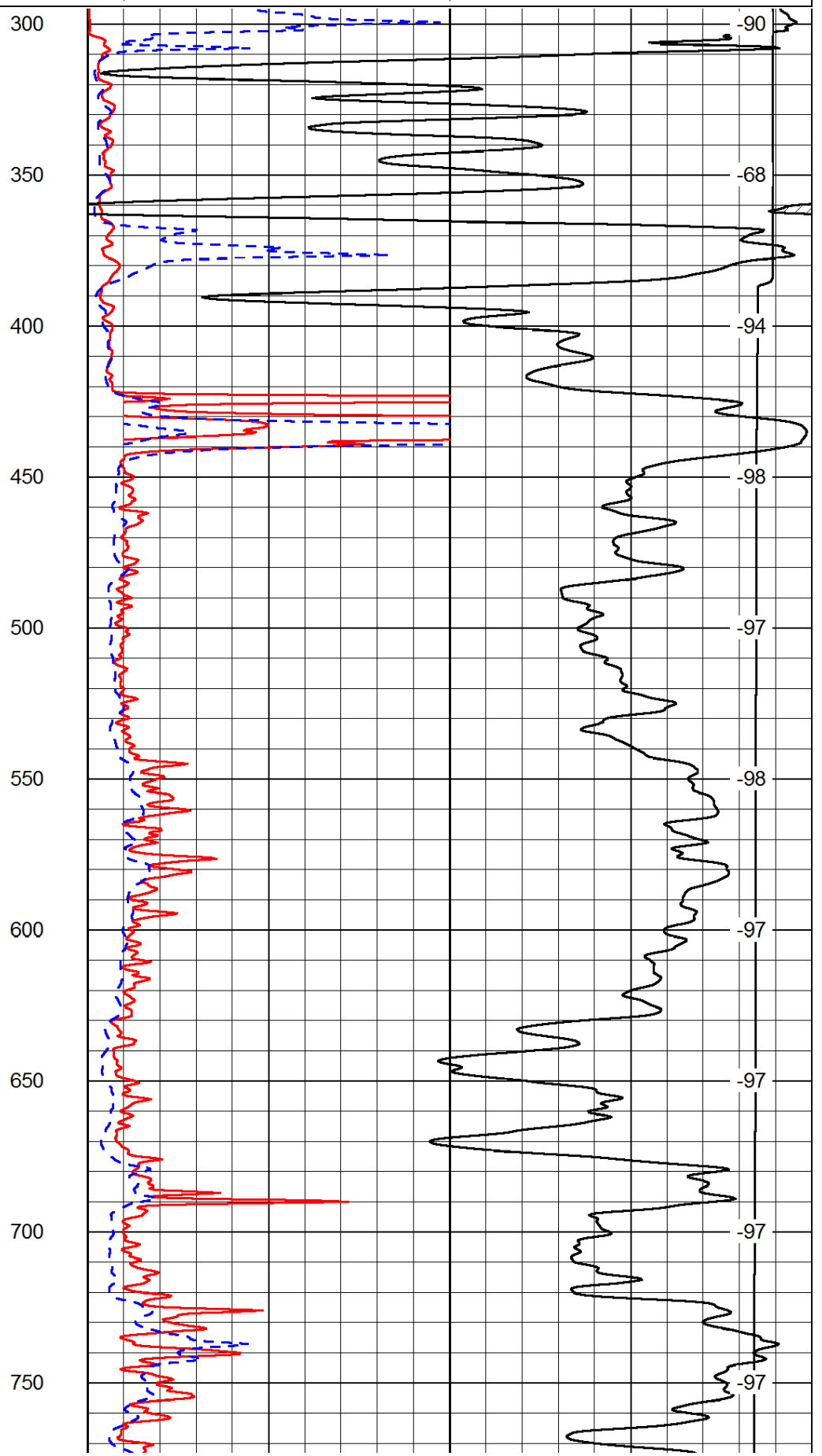
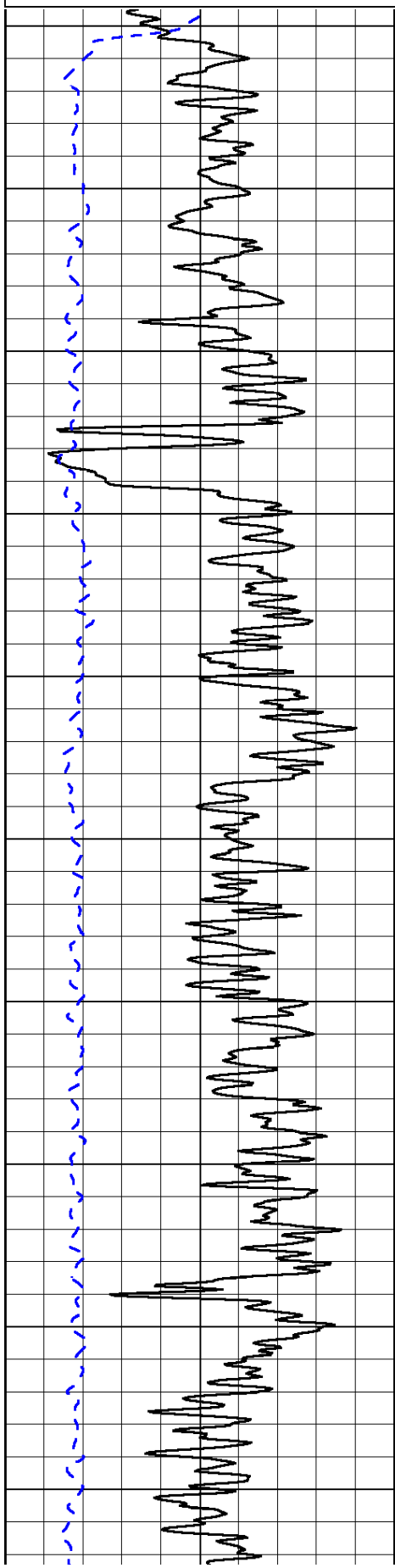
Raymond KS, 1/2 East, 1/2 North, East Into

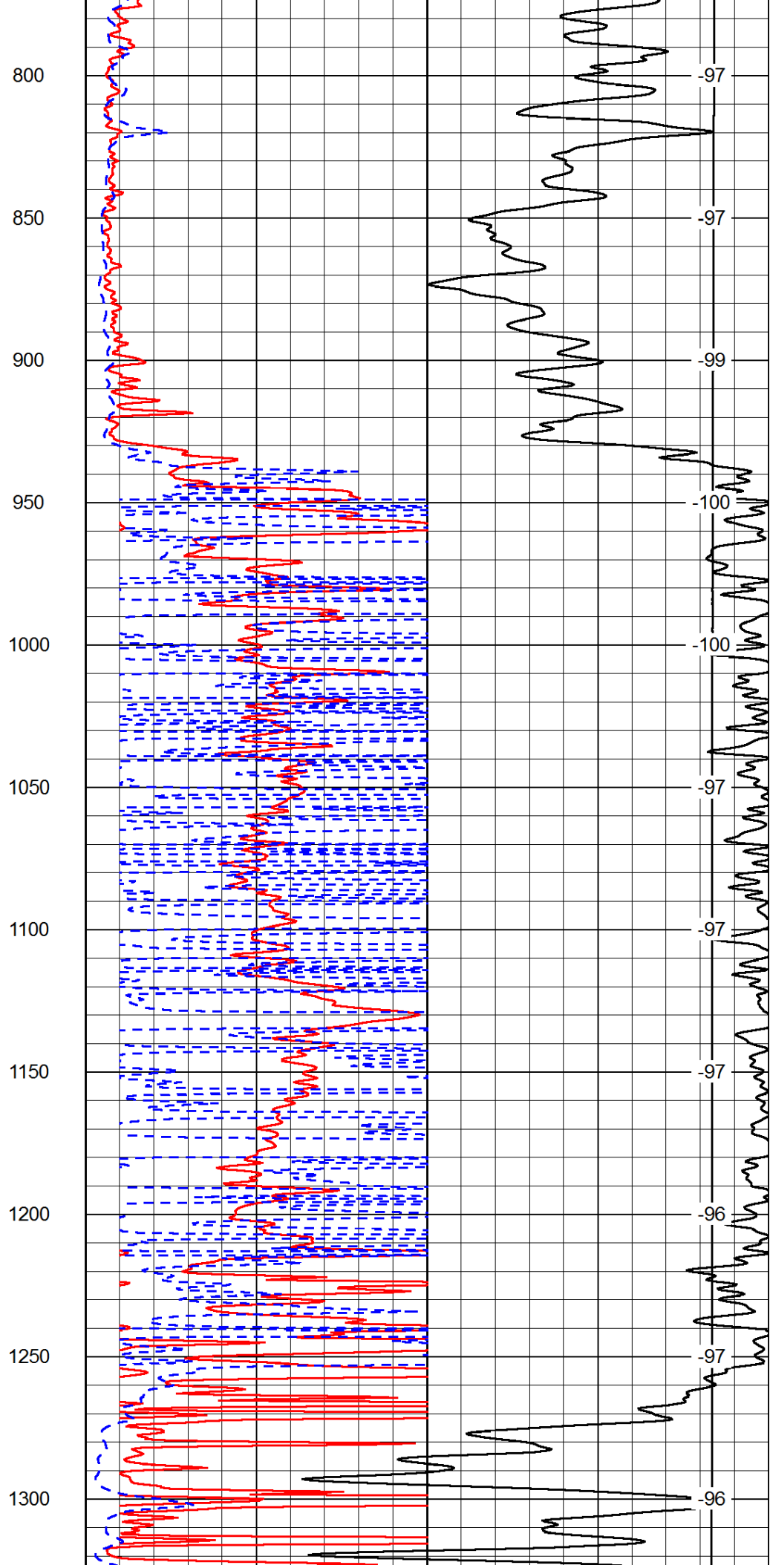
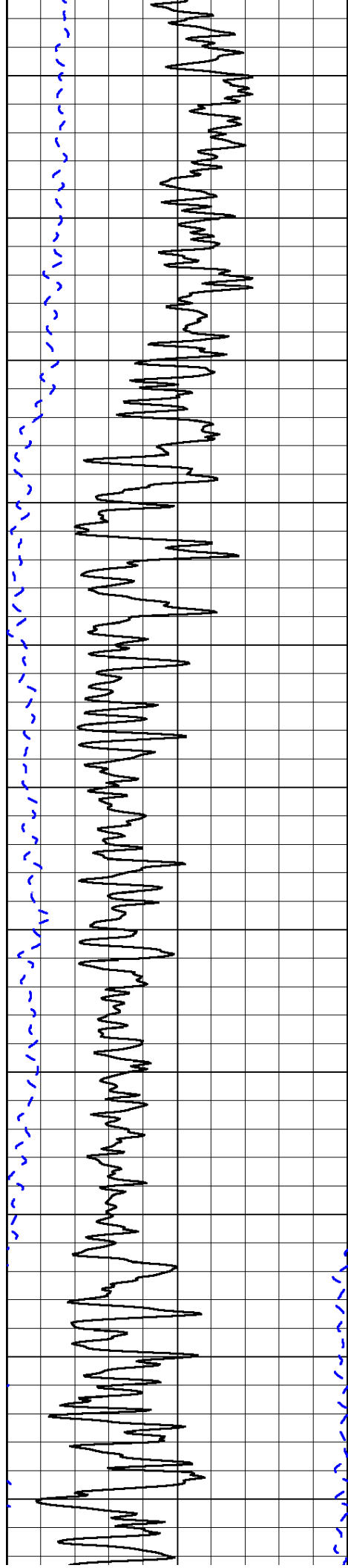
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Presentation Format: dil2in
Dataset Creation: Fri Oct 17 08:34:19 2014
Charted by: Depth in Feet scaled 1:600

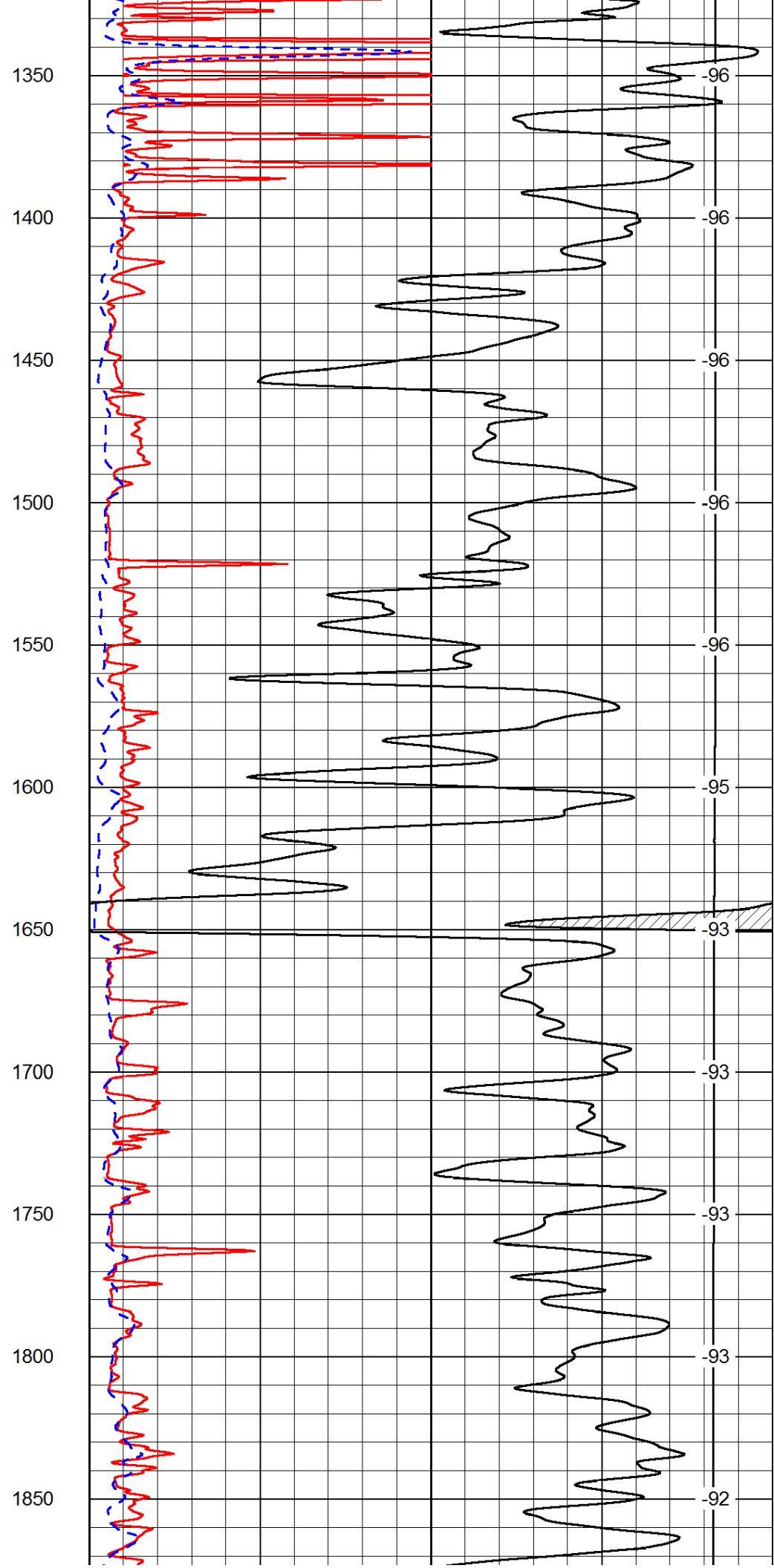
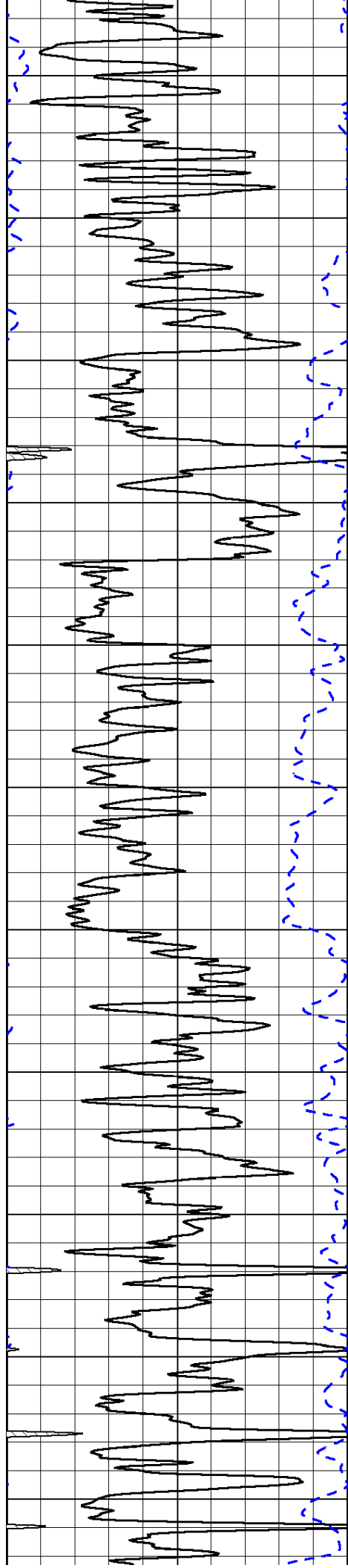
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-200	SP (mV)	0

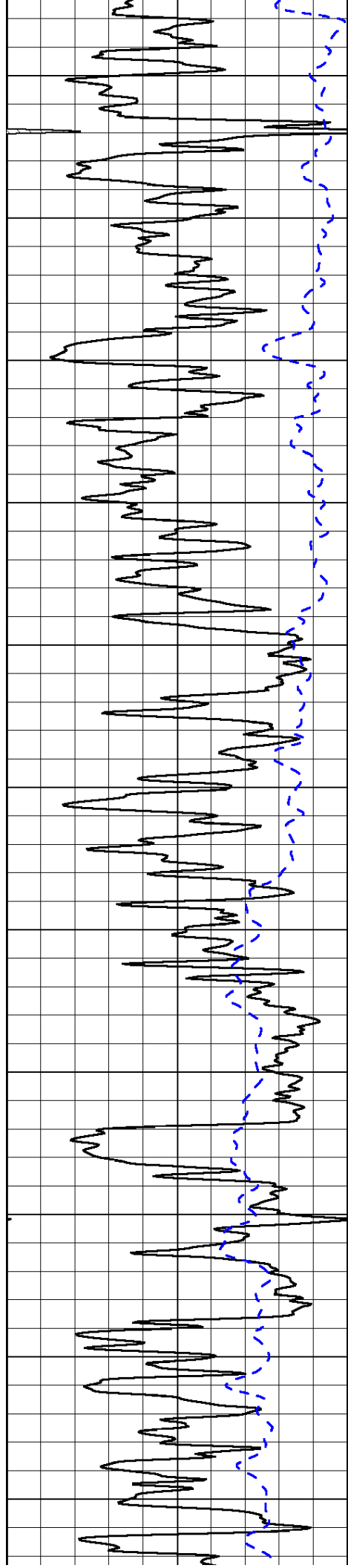
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

LSPD









1900

1950

2000

2050

2100

2150

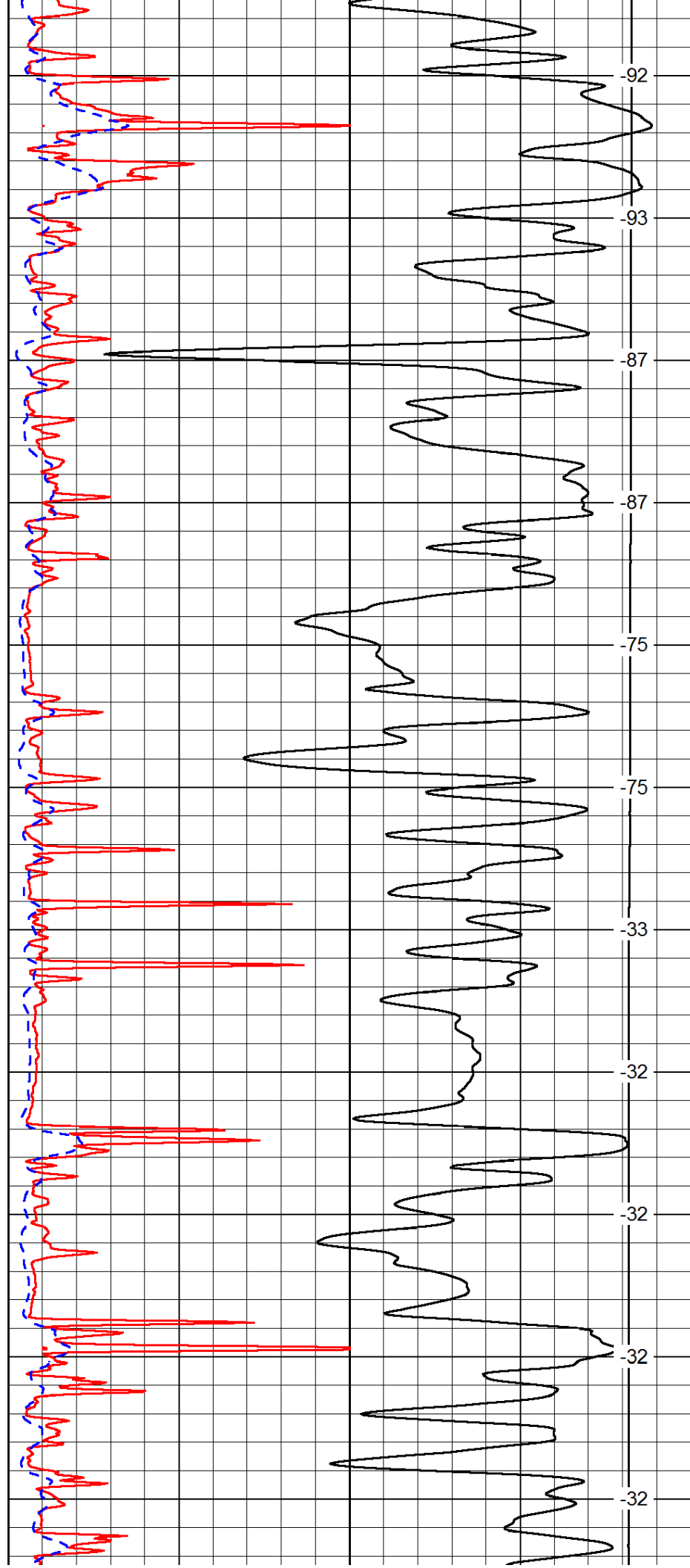
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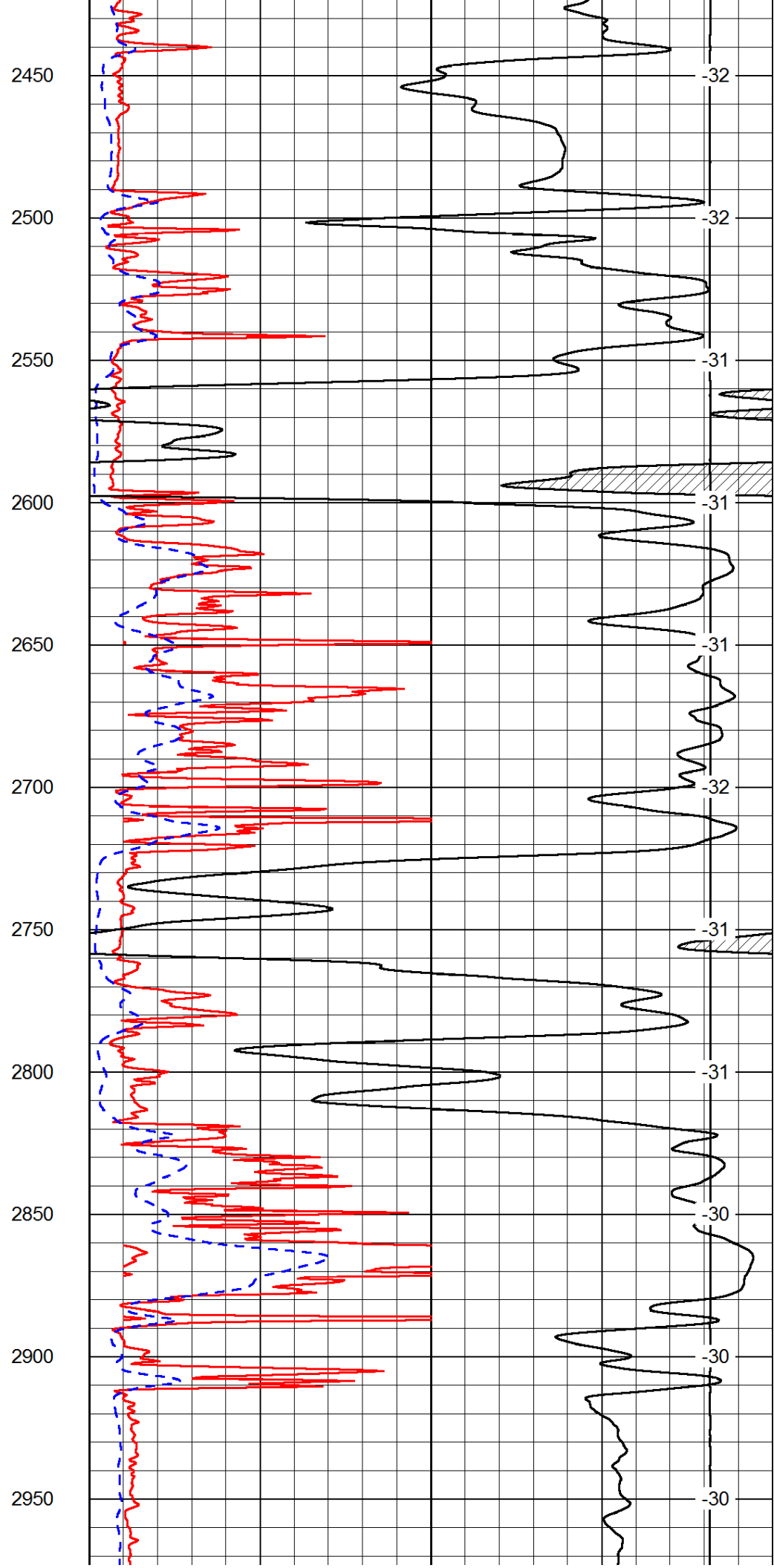
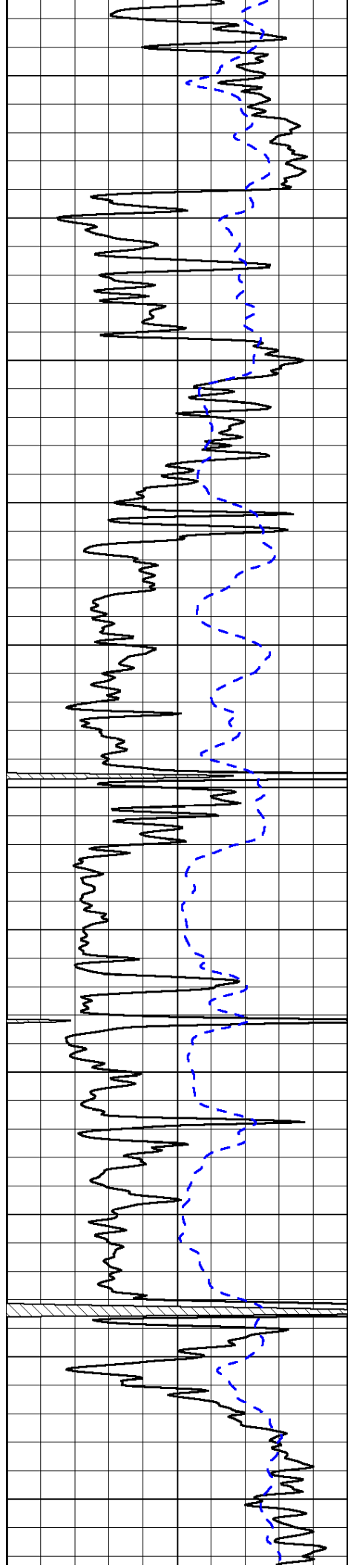
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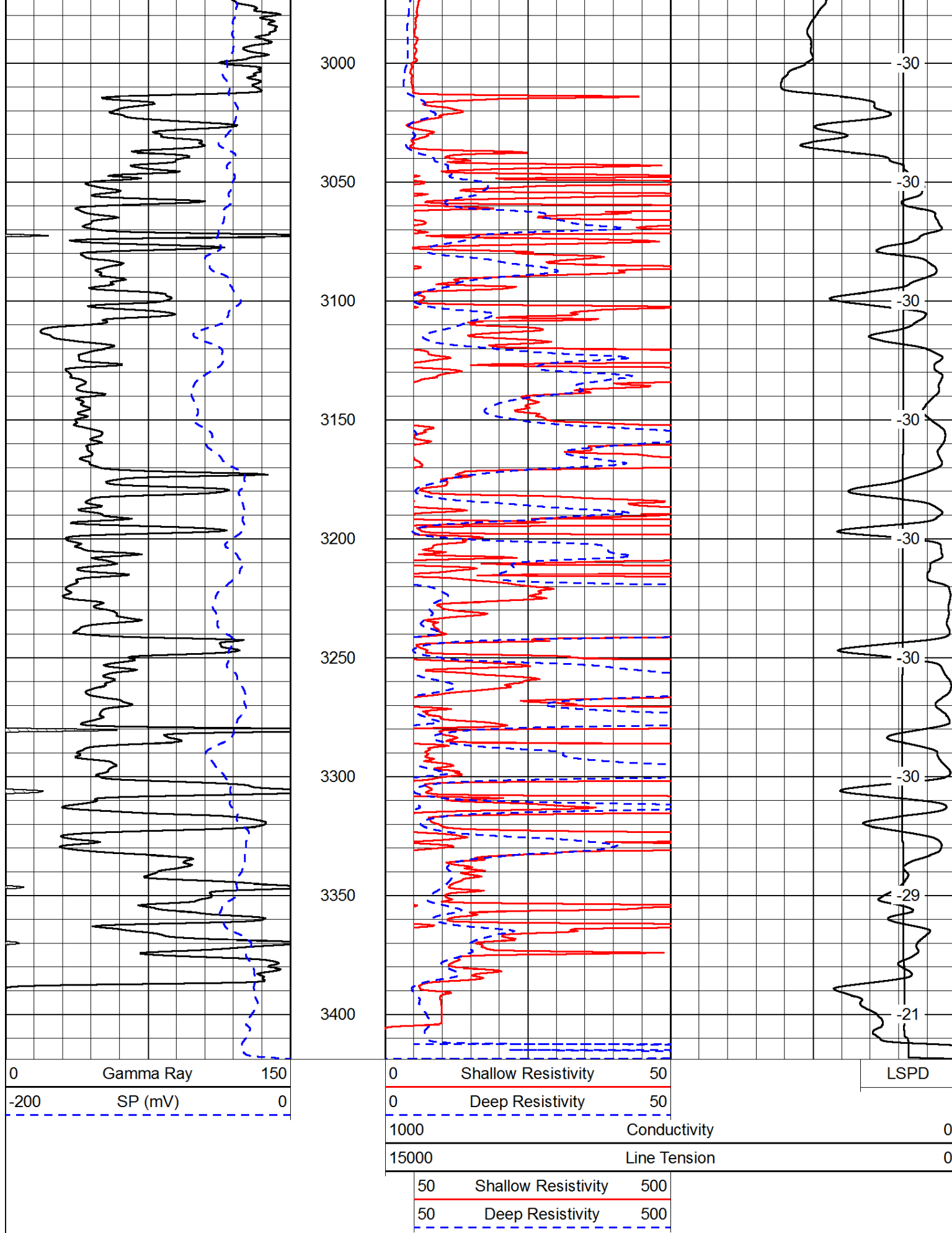
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2350

2400





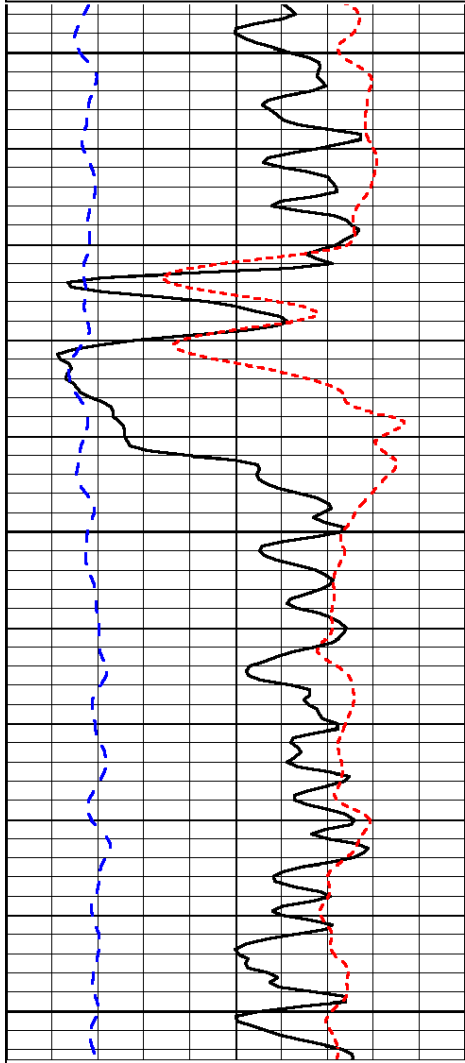


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Presentation Format: dil
Dataset Creation: Fri Oct 17 08:34:19 2014
Charted by: Depth in Feet scaled 1:240

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



400

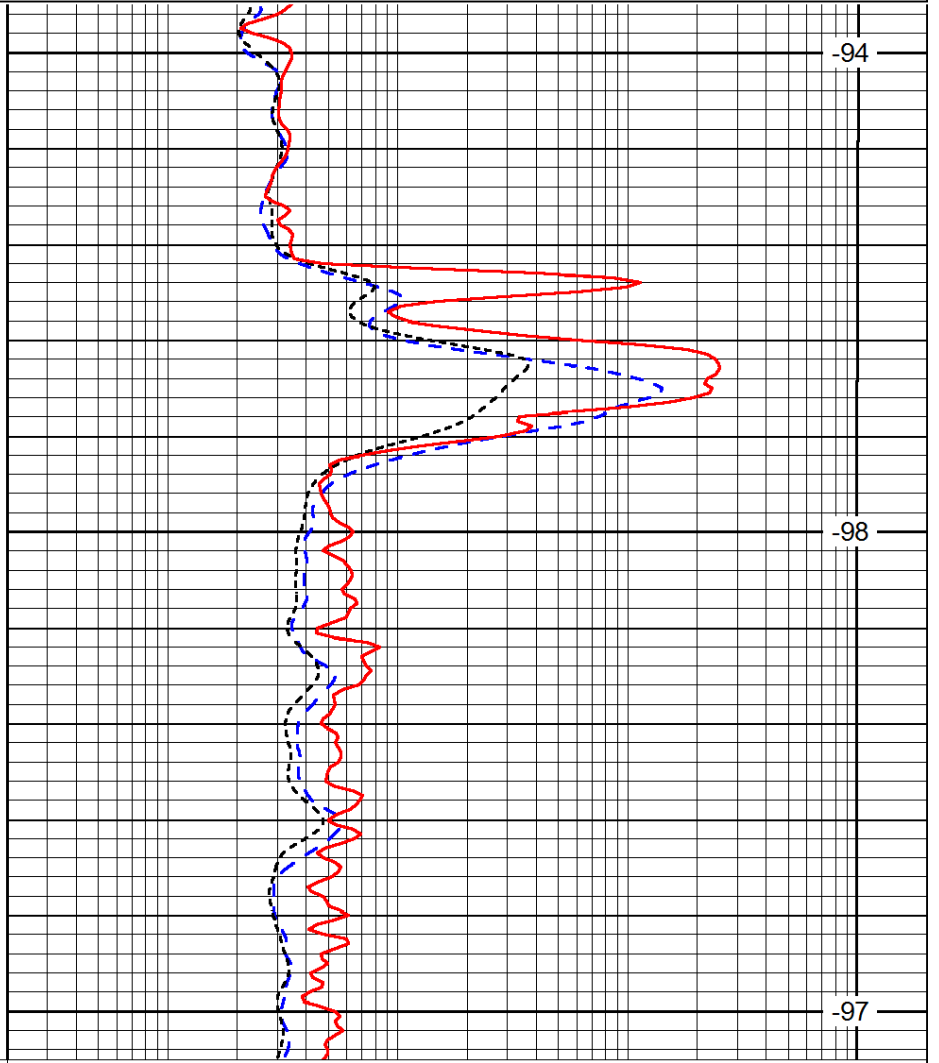
450

500

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



-94

-98

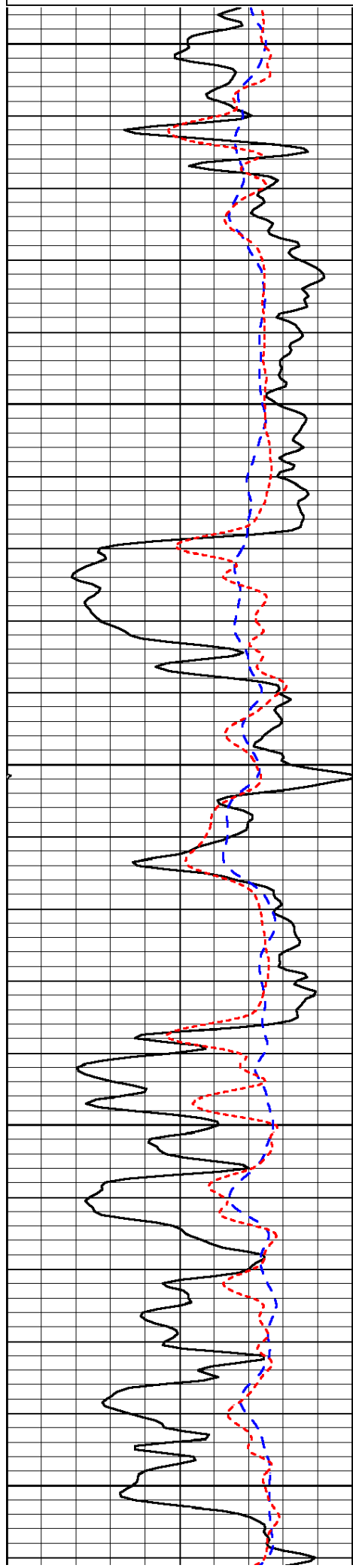
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Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
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-160	RxoRt	40

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

LSPD



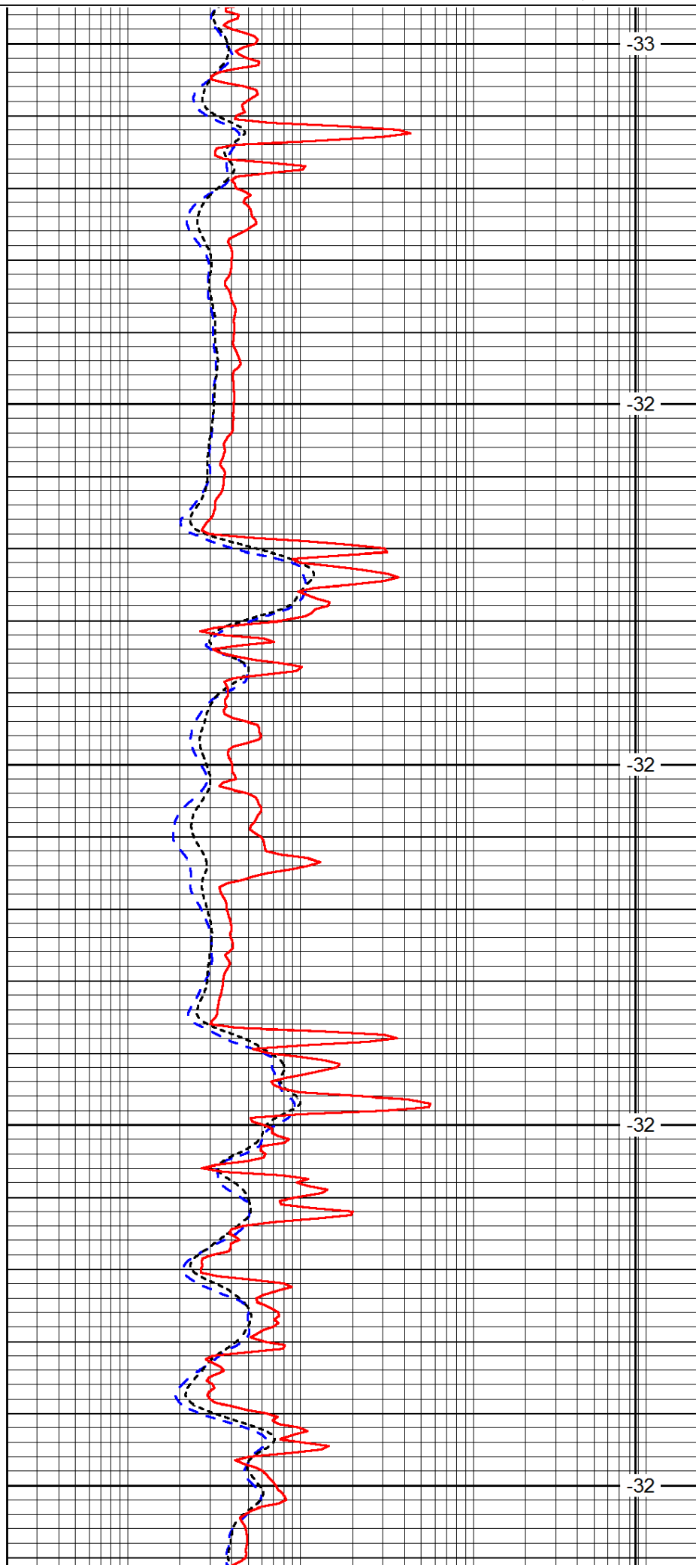
2200

2250

2300

2350

2400



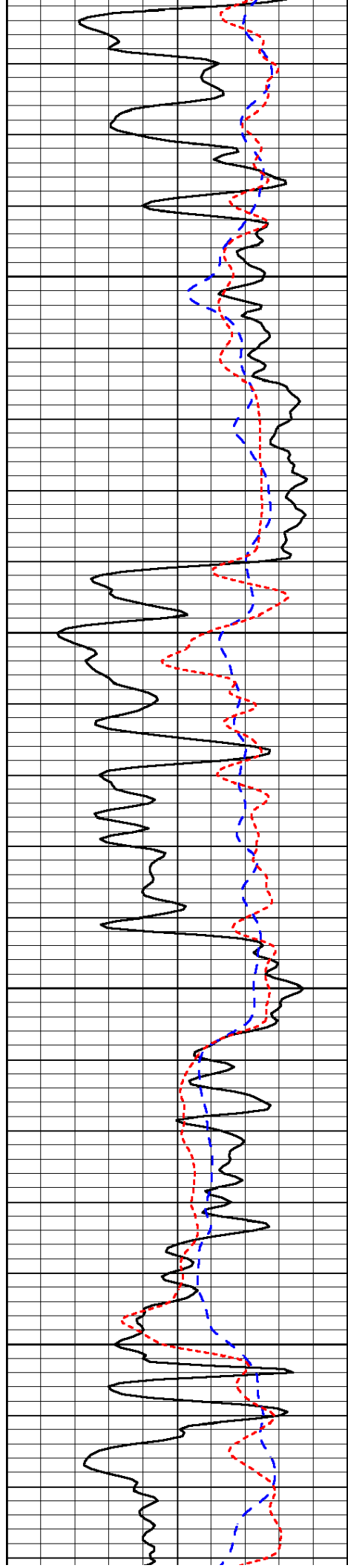
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-32

-32

-32

-32

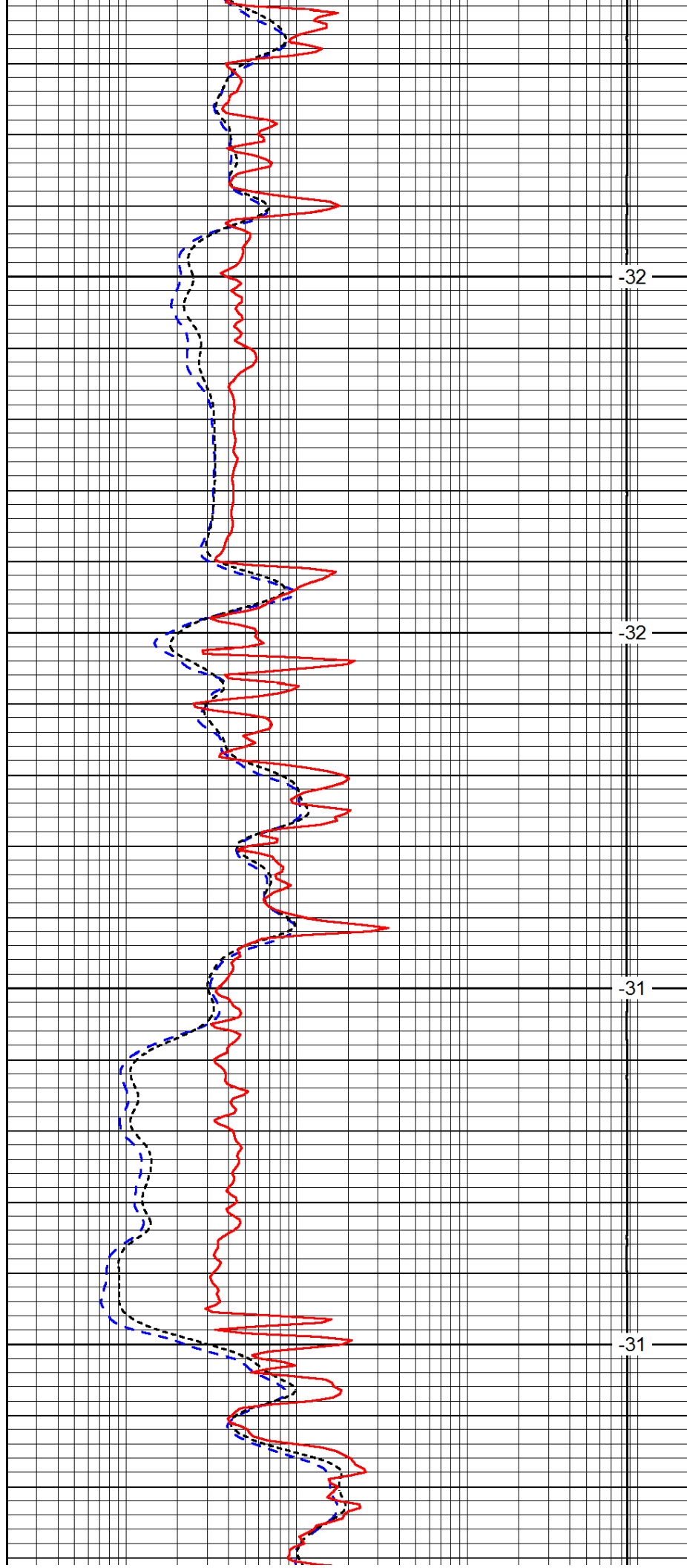


2450

2500

2550

2600

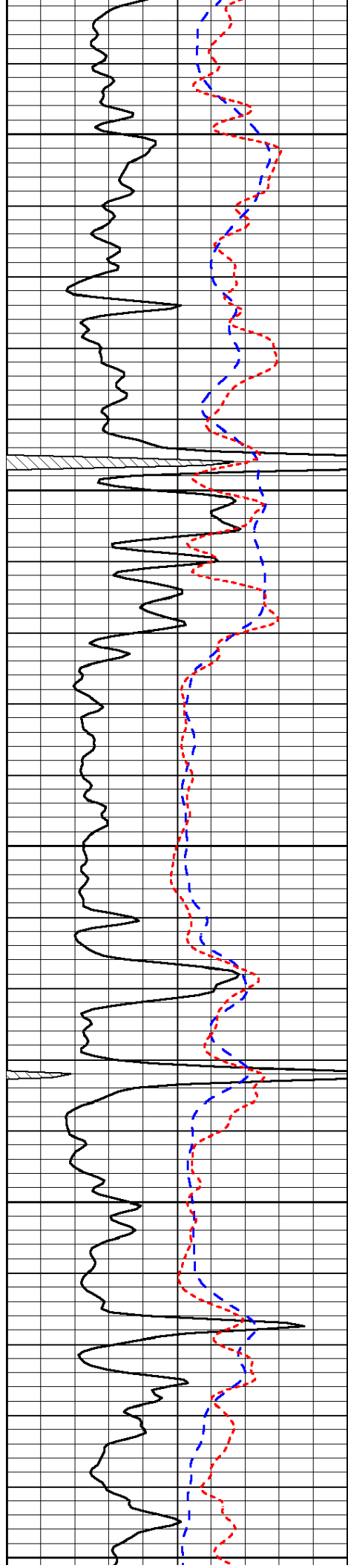


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-32

-31

-31



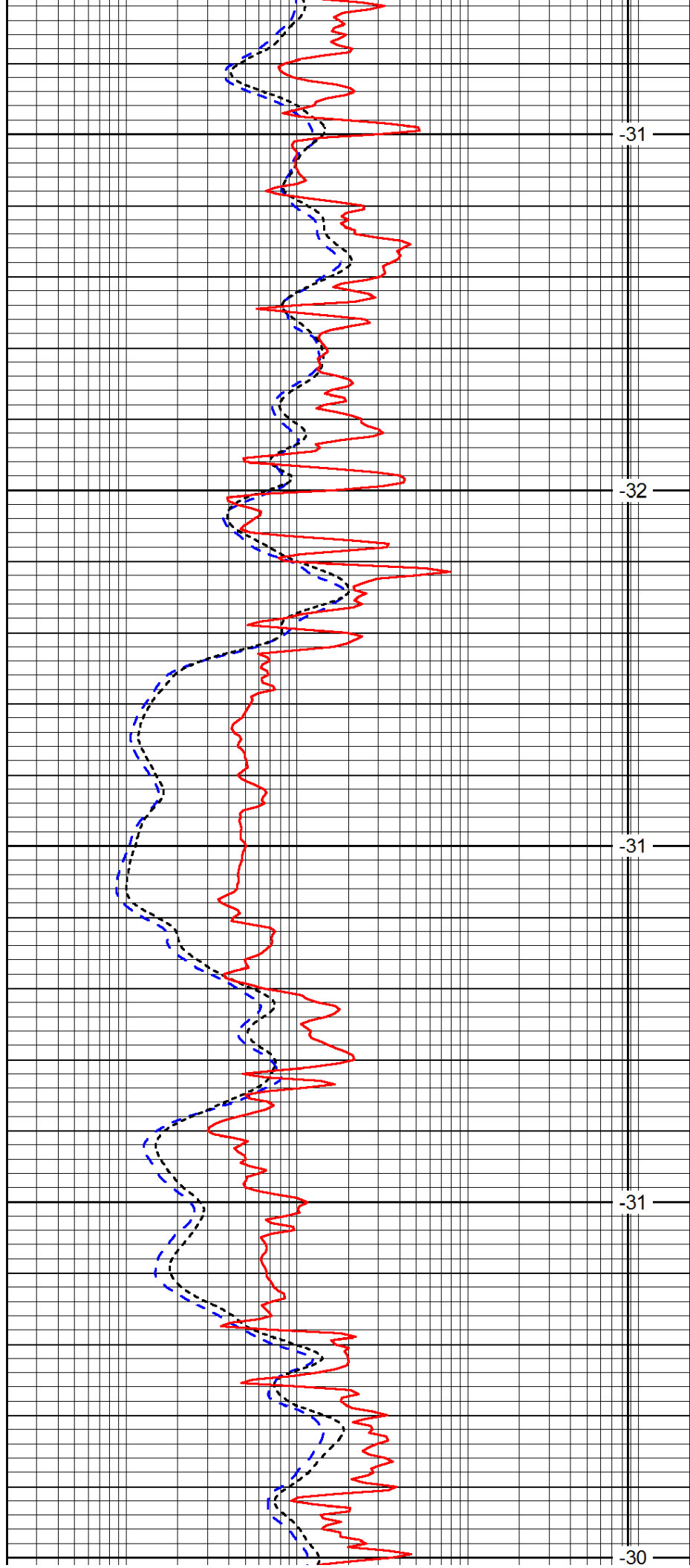
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2700

2750

2800

2850



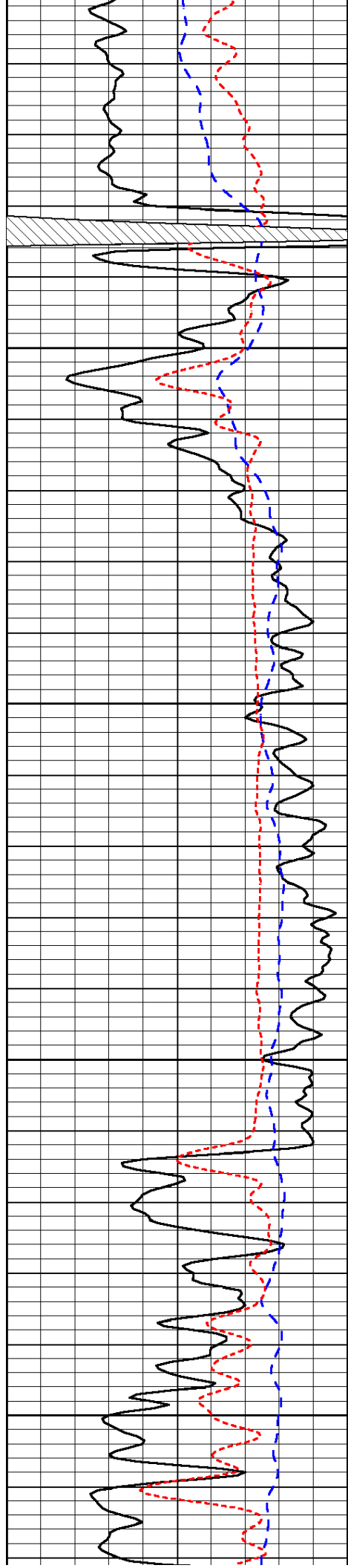
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-32

-31

-31

-30

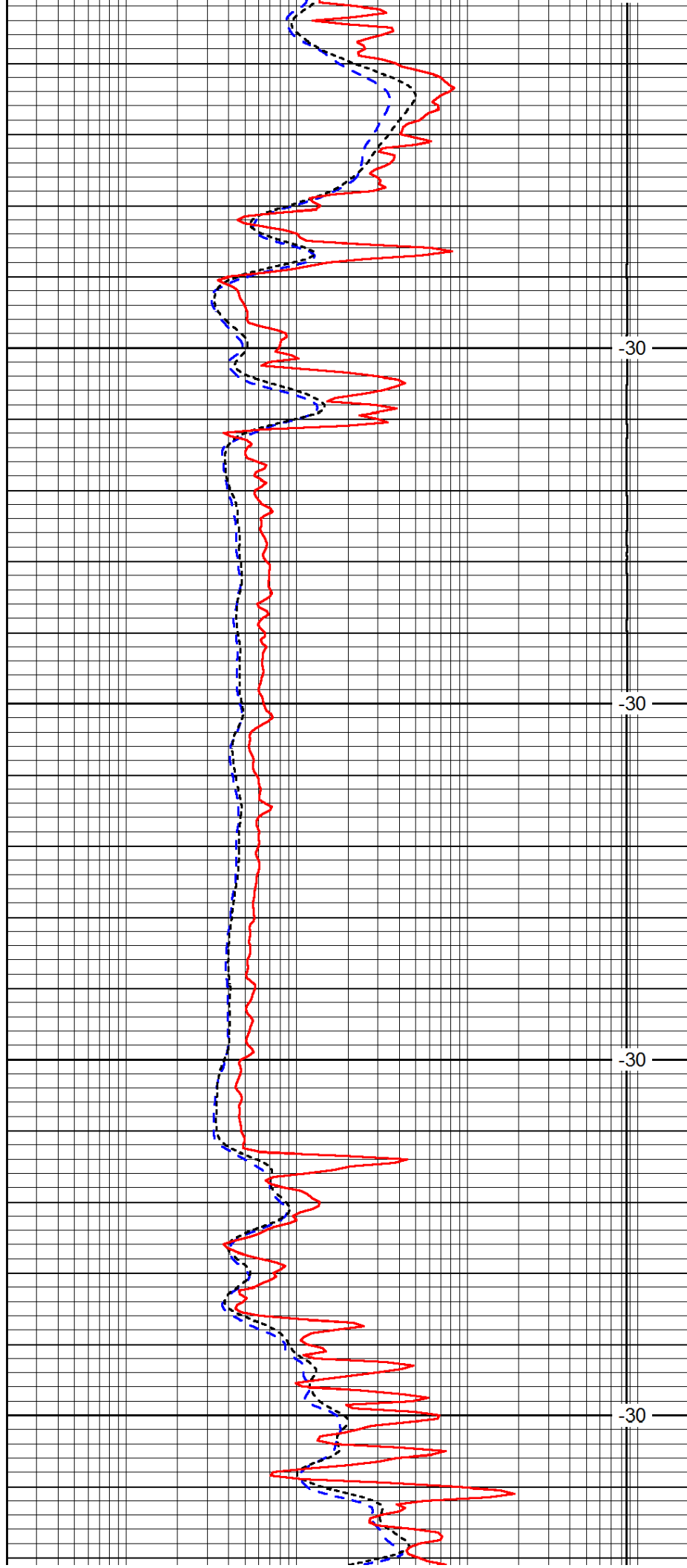


2900

2950

3000

3050

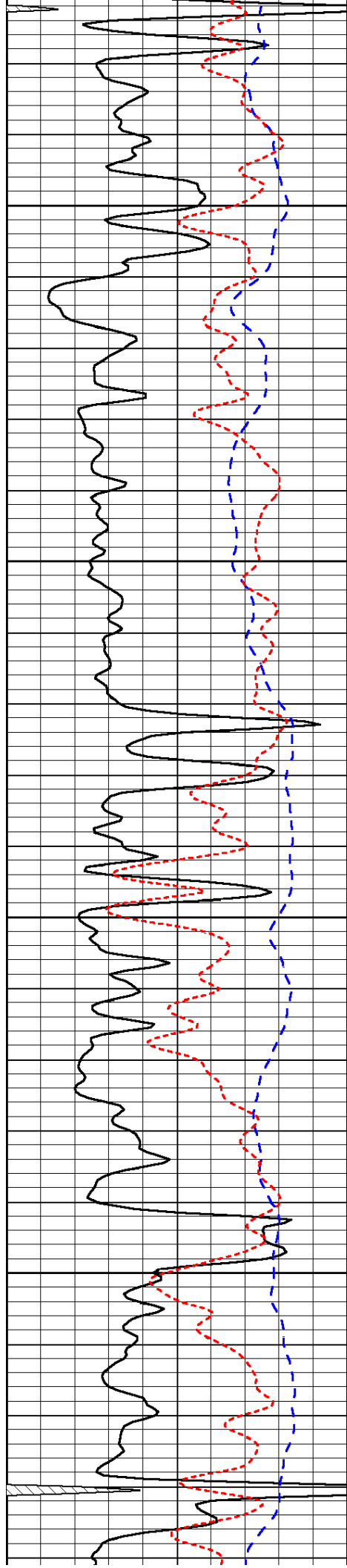


-30

-30

-30

-30

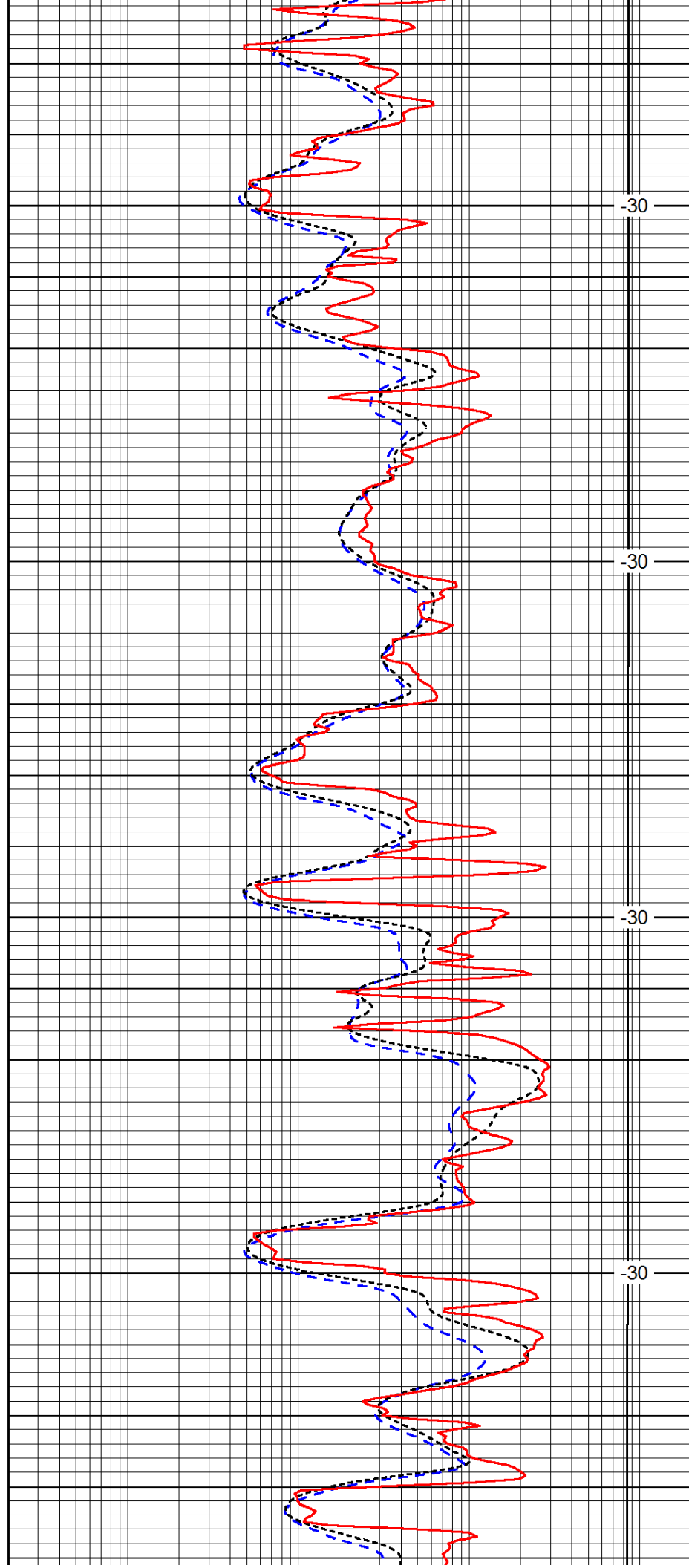


3100

3150

3200

3250

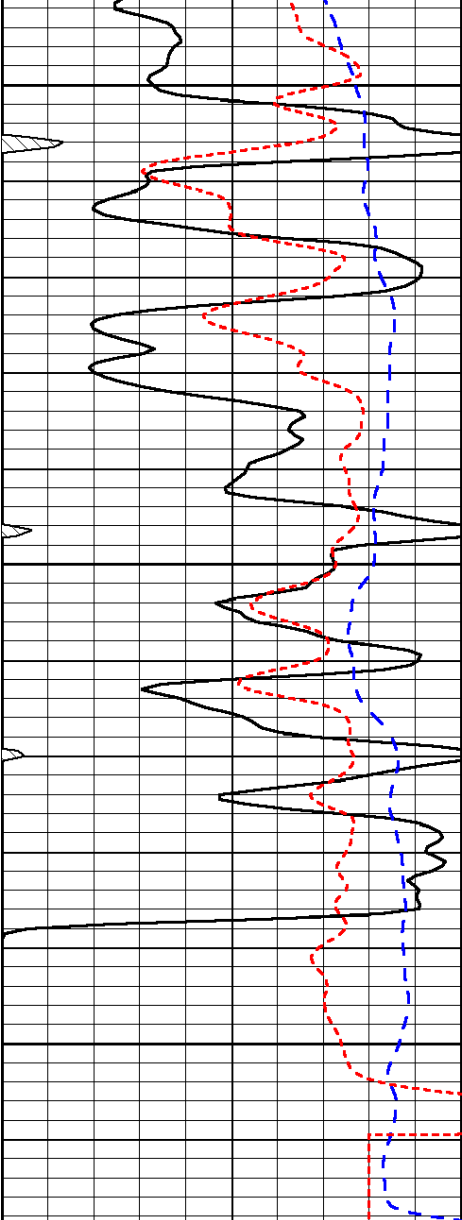


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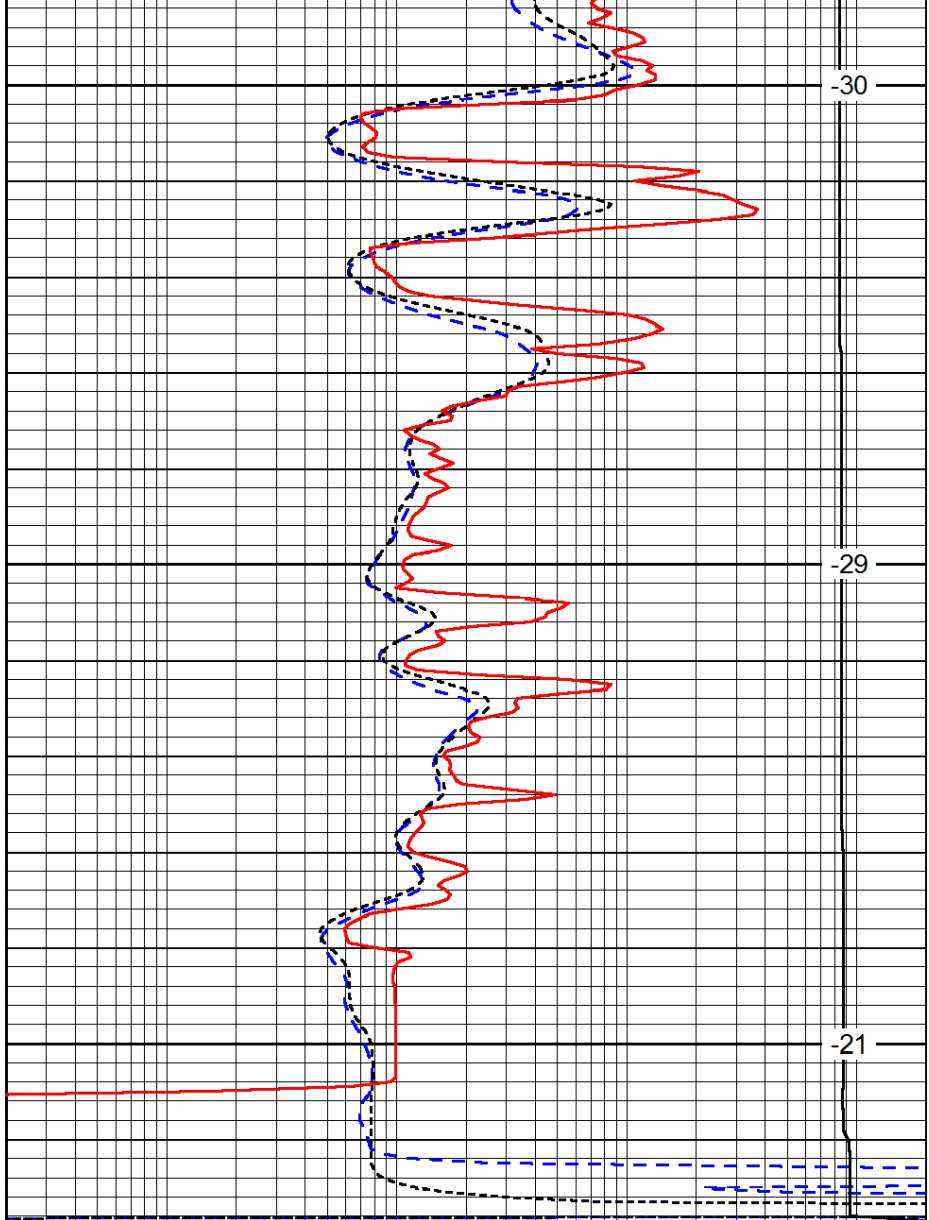
-30

-30

-30



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LSPD