



Pioneer Energy Services

Dual Induction Log

15-053-21,321-00-00

API No.

Company **Bird Dog Oil, LLC**
 Well **Stoltenberg-Svoboda #3-17**
 Field **Stoltenberg**
 County **Ellsworth** State **Kansas**

Location **1600' FNL & 1940' FEL**
 Sec: **17** Twp: **16S** Rge: **10W**

Other Services
 CNL/CDL
 MEL/BHCS

Permanent Datum **Ground Level** Elevation **1887**
 Log Measured From **Kelly Bushing** **8** Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 1895
 D.F. 1887
 G.L. 1887

Date	10/29/2014
Run Number	One
Depth Driller	3440
Depth Logger	3442
Bottom Logged Interval	3441
Top Log Interval	400
Casing Driller	8.625 @ 407
Casing Logger	405
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	9.100
Density / Viscosity	9.2 56
pH / Fluid Loss	10.0 9.6
Source of Sample	Flowline
Rm @ Meas. Temp	.15 @ 57
Rmf @ Meas. Temp	.11 @ 57
Rmc @ Meas. Temp	.20 @ 57
Source of Rmf / Rmc	Charts
Rm @ BHT	.08 @ 110
Operating Rig Time	5 Hours
Max Rec. Temp. F	110
Equipment Number	10
Location	Hays
Recorded By	J. Henrickson
Witnessed By	Adam Nighswonger

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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

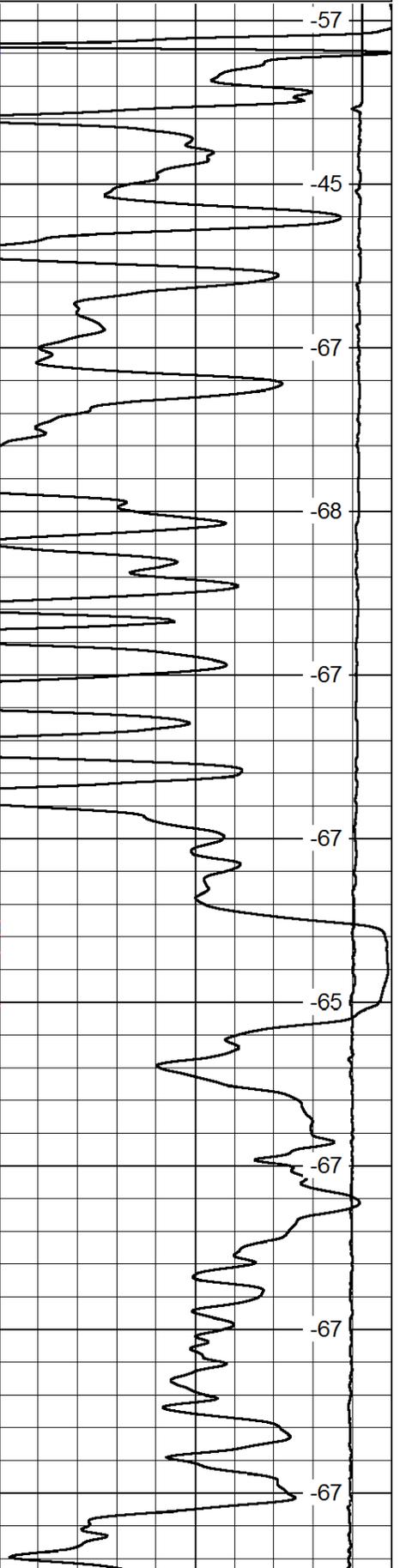
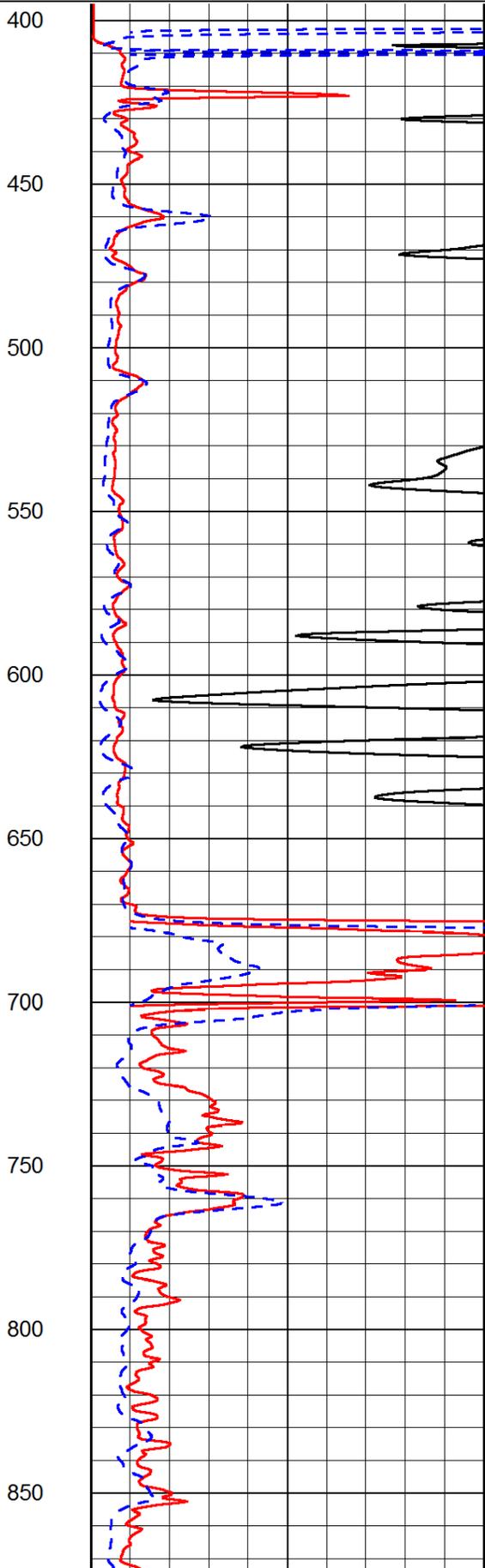
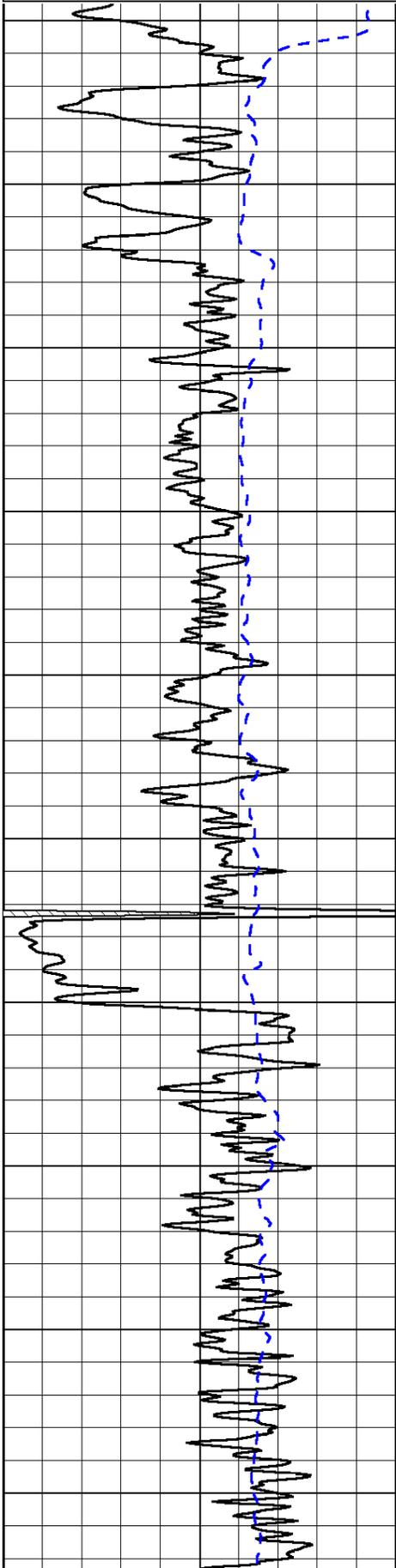
Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858
 Wilson Kansas
 12 South to P Rd, 2 East, 1/2 North, West Into

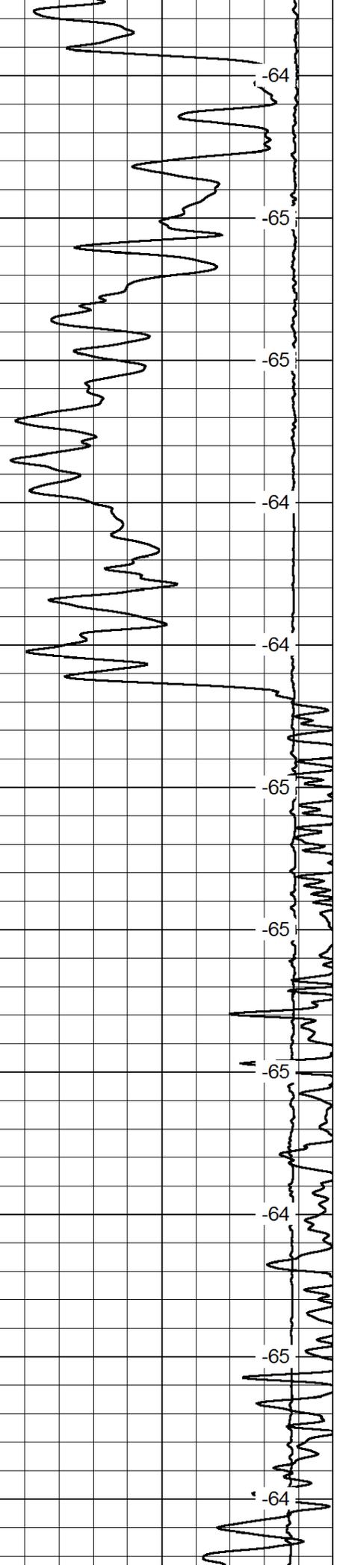
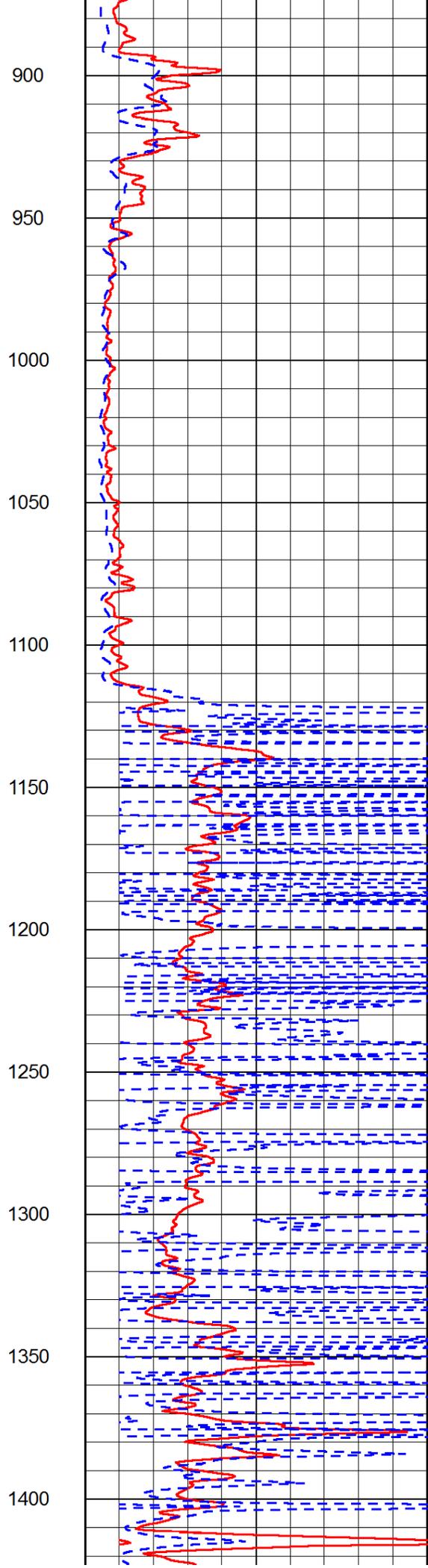
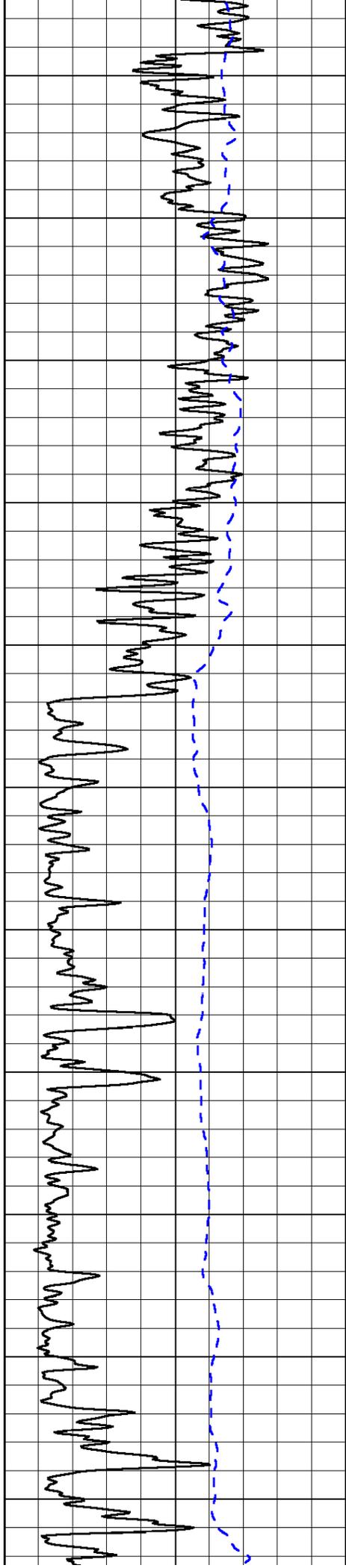
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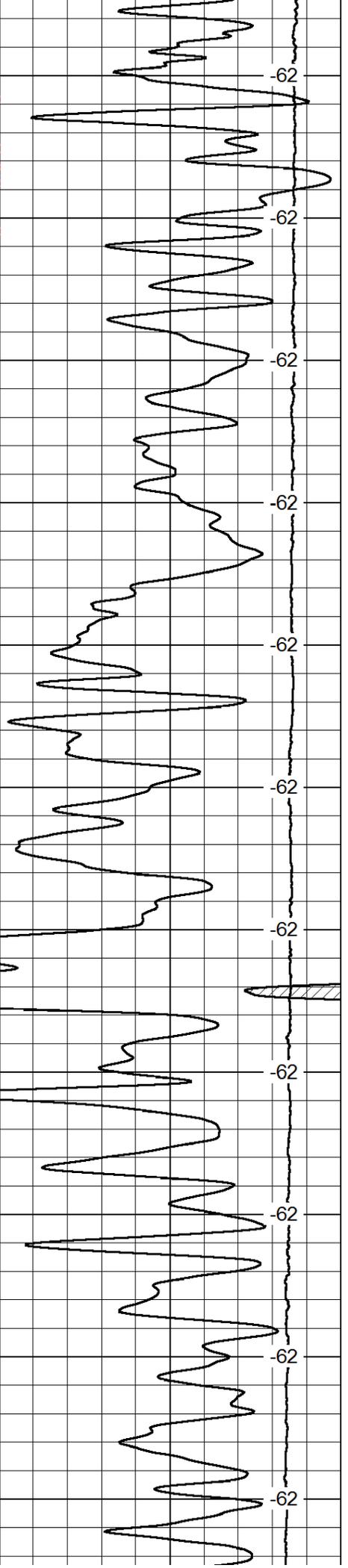
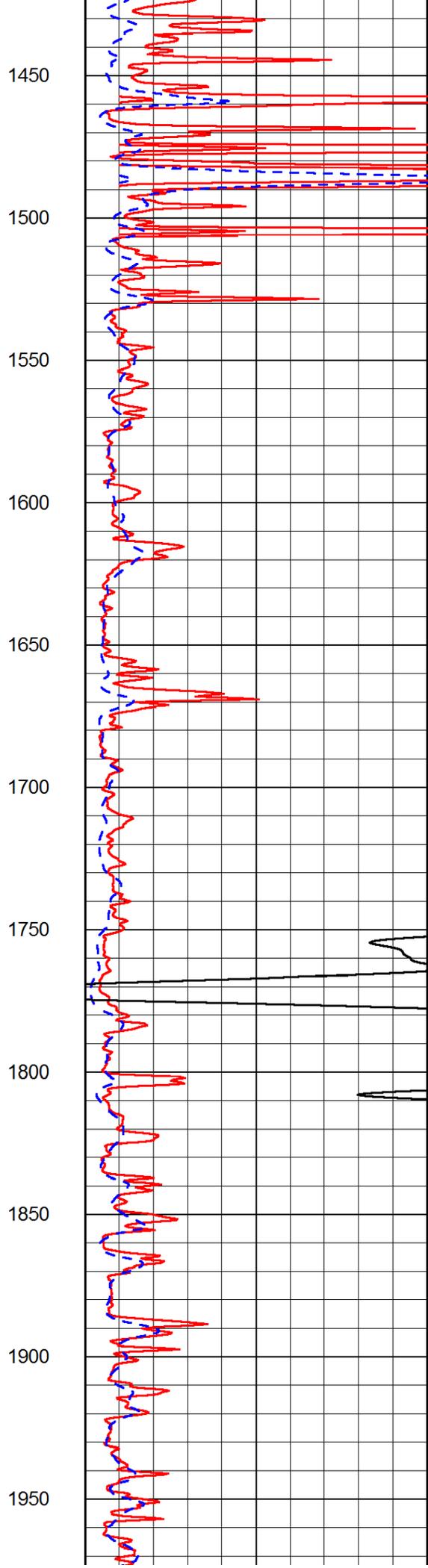
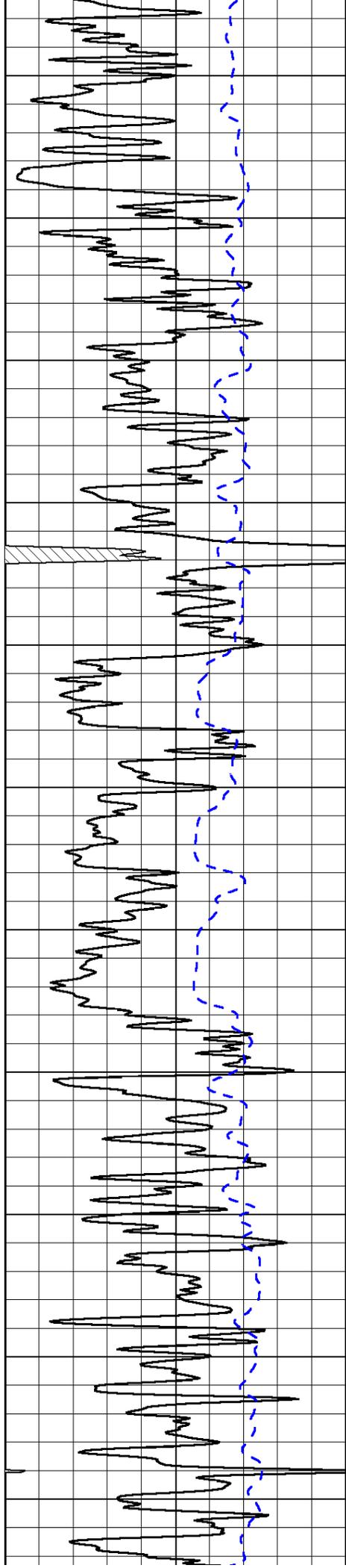
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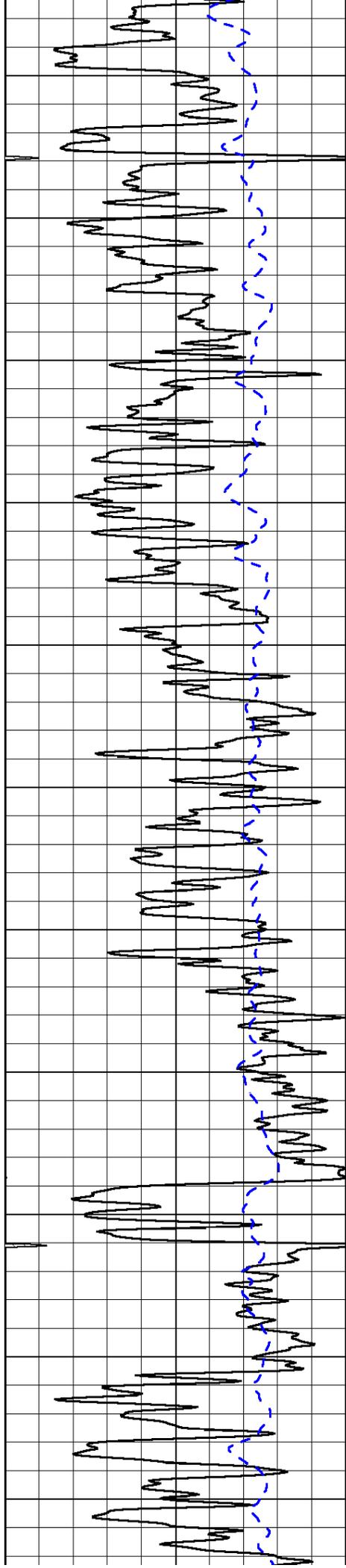
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

LSPD	0
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2000

2050

2100

2150

2200

2250

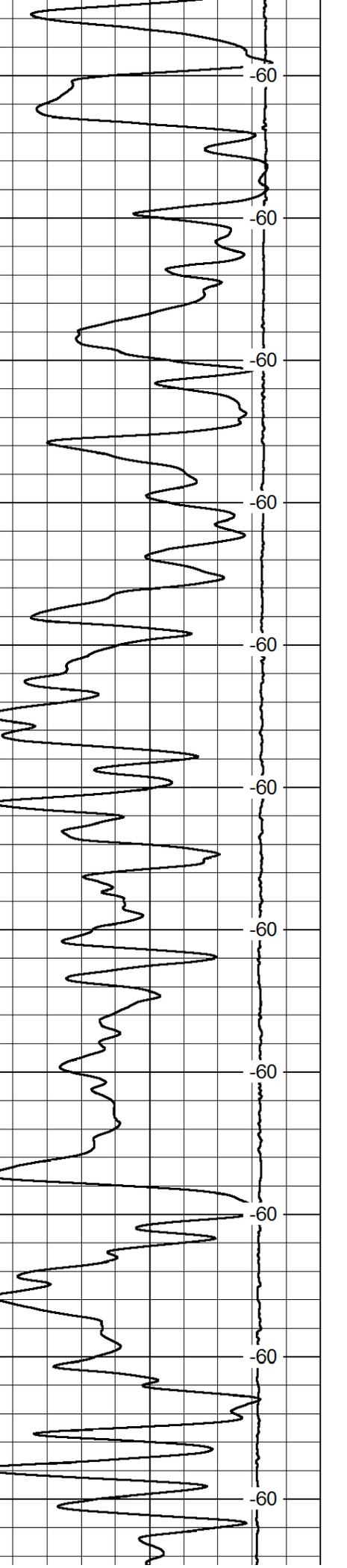
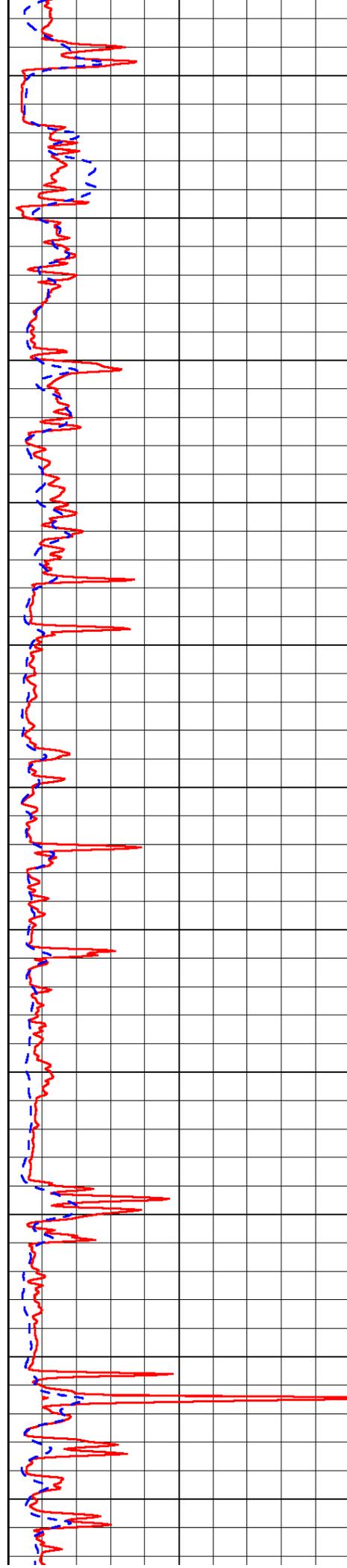
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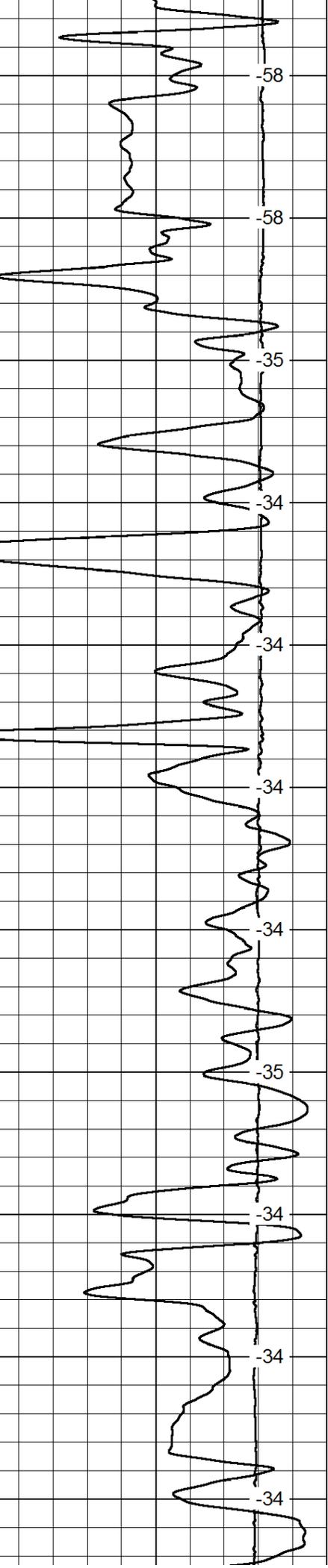
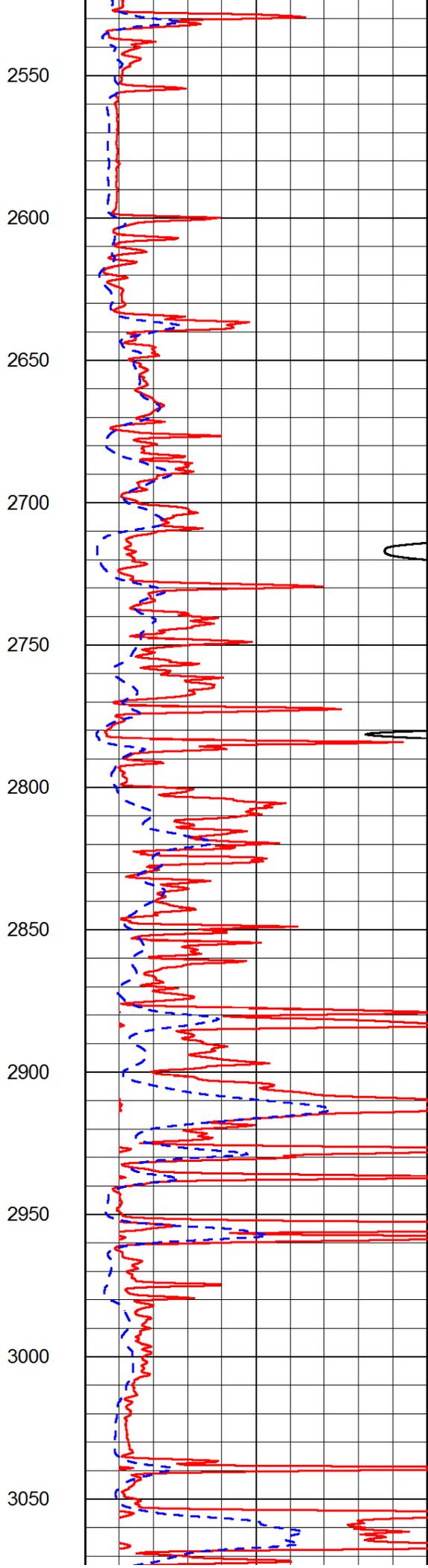
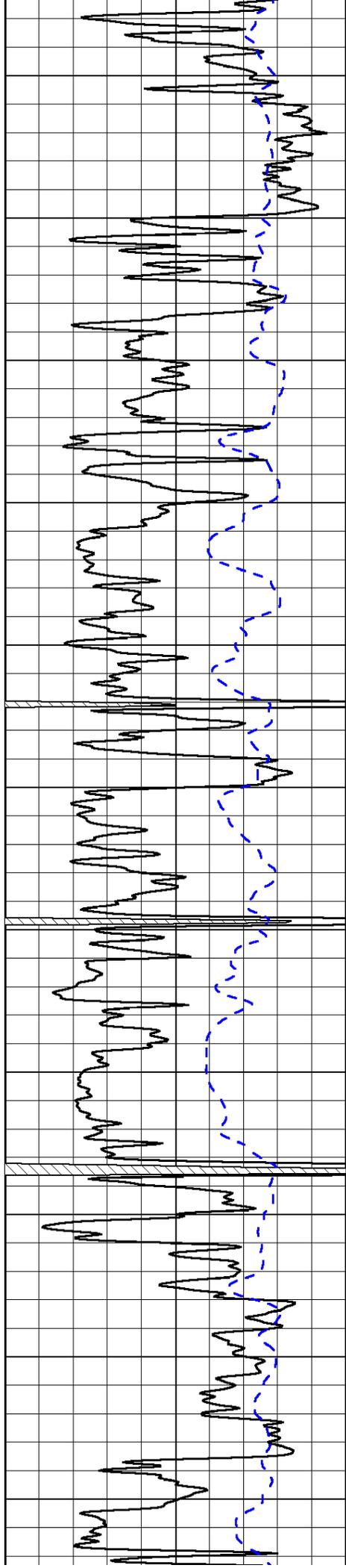
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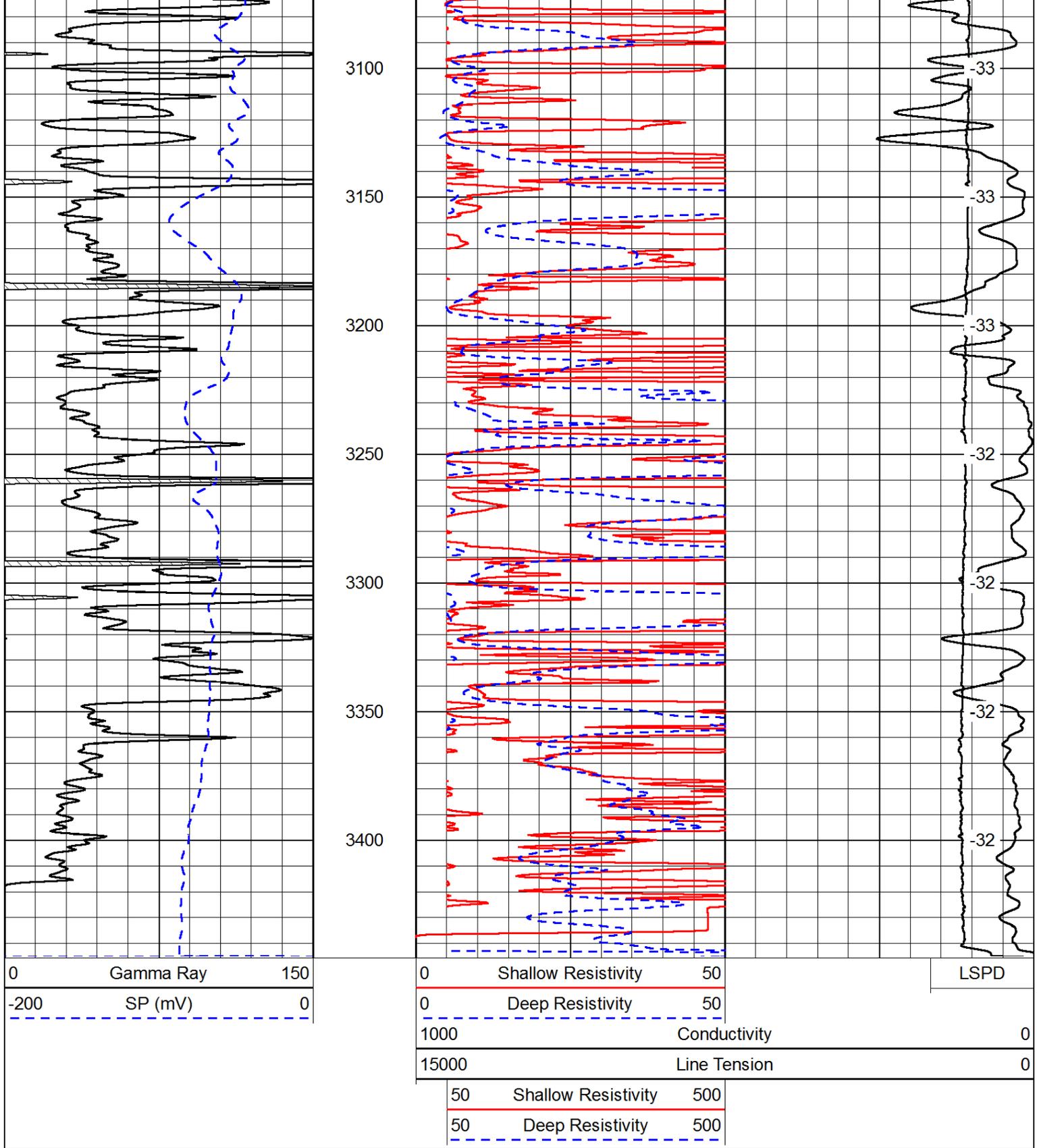
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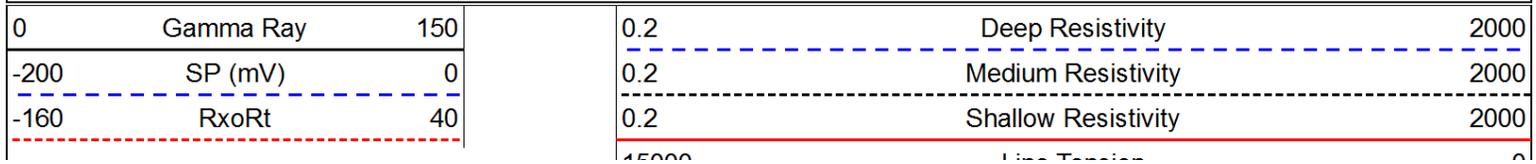
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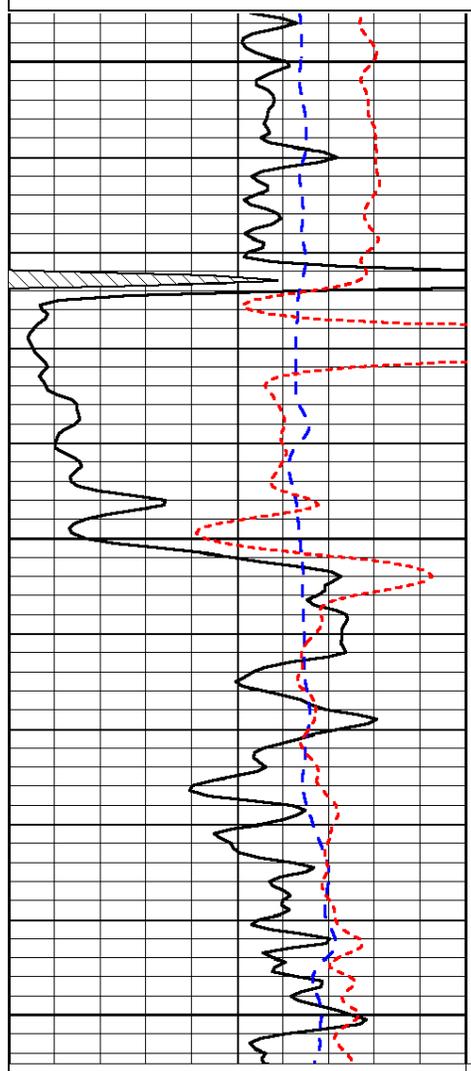
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15000

Line Tension

LSPD

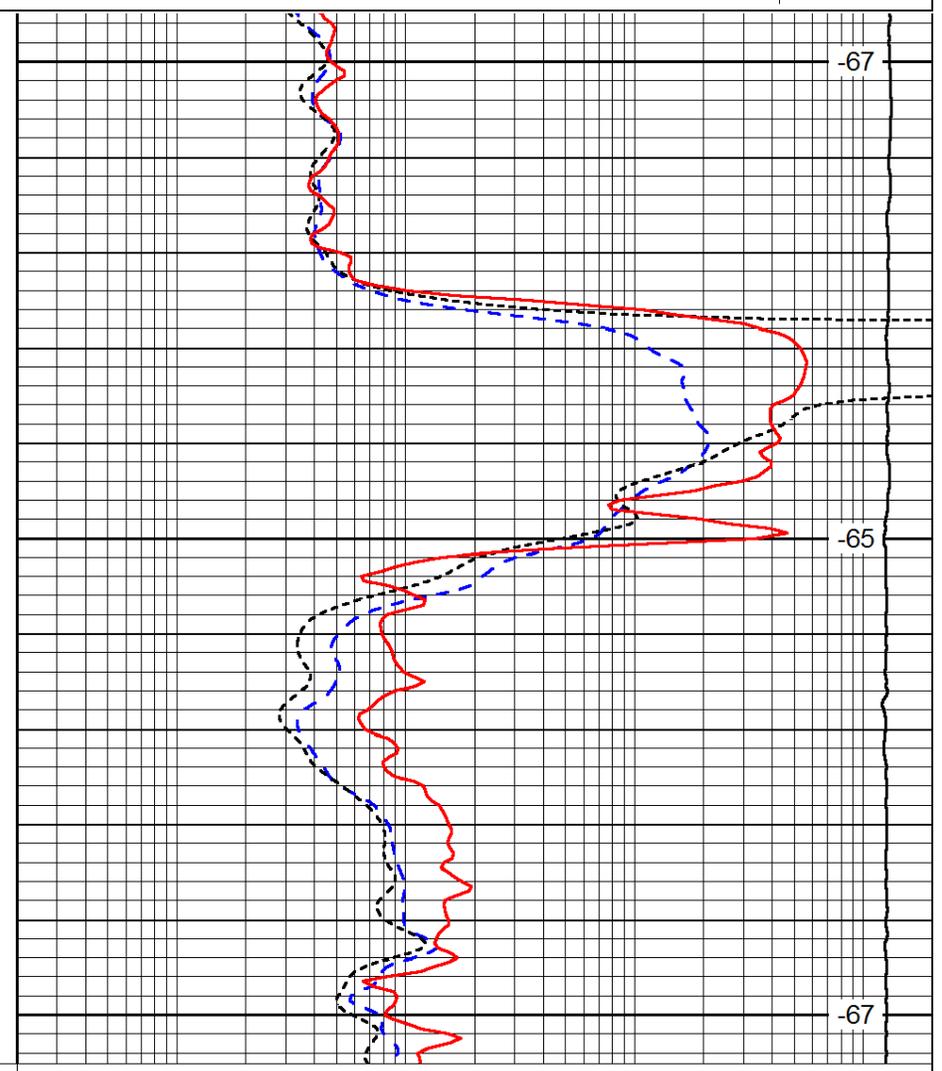


650

700

750

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



-67

-65

-67

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

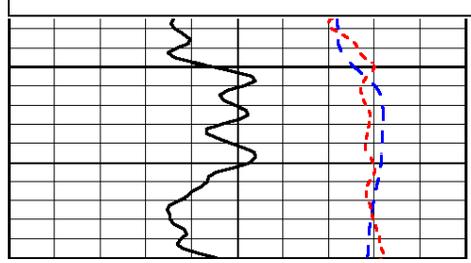
LSPD

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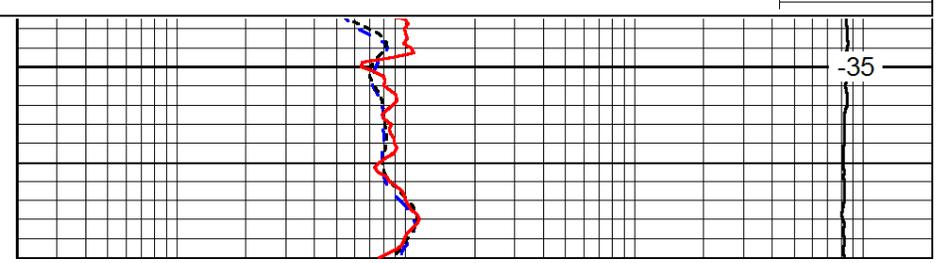
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-200	SP (mV)	0
-160	RxoRt	40

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

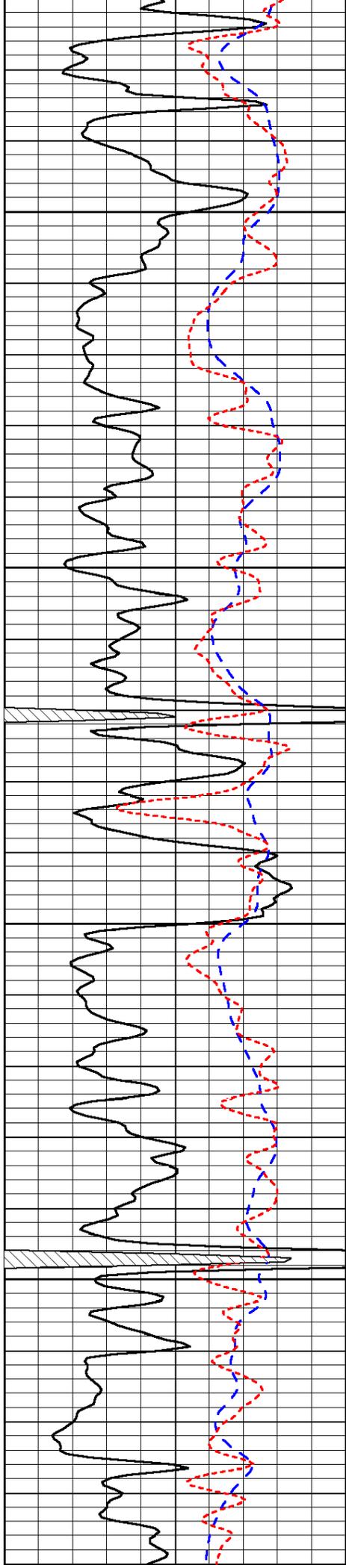
LSPD



2650



-35

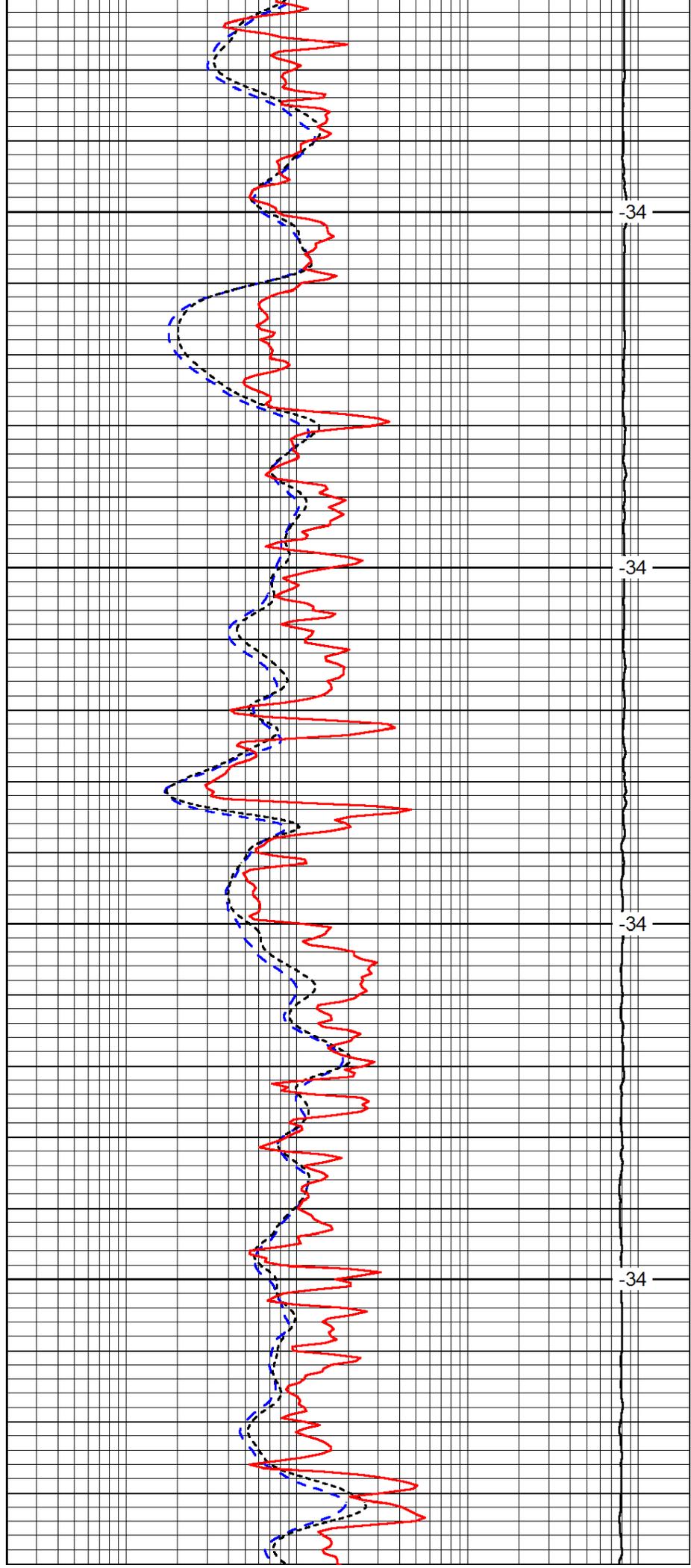


2700

2750

2800

2850

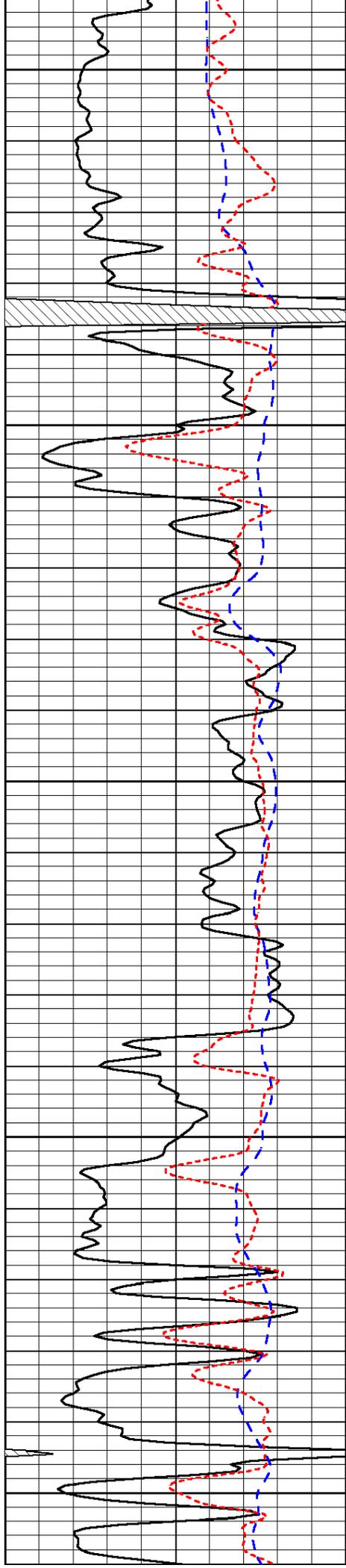


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-34

-34



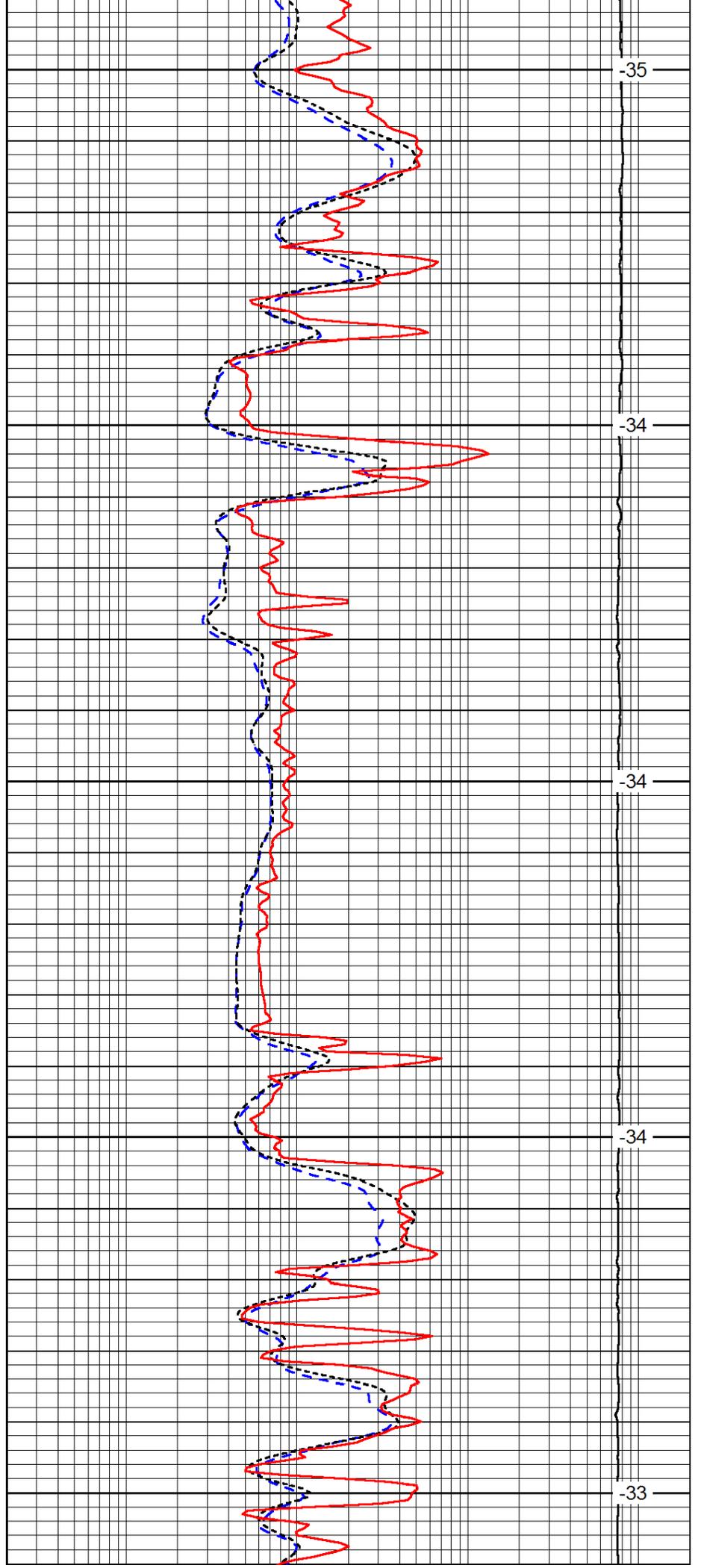
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2950

3000

3050

3100



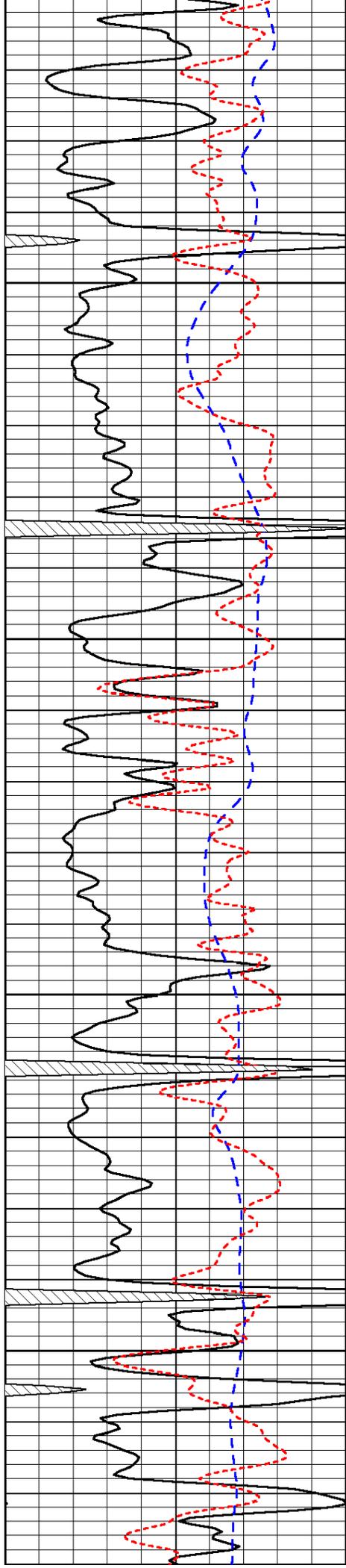
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-34

-34

-34

-33

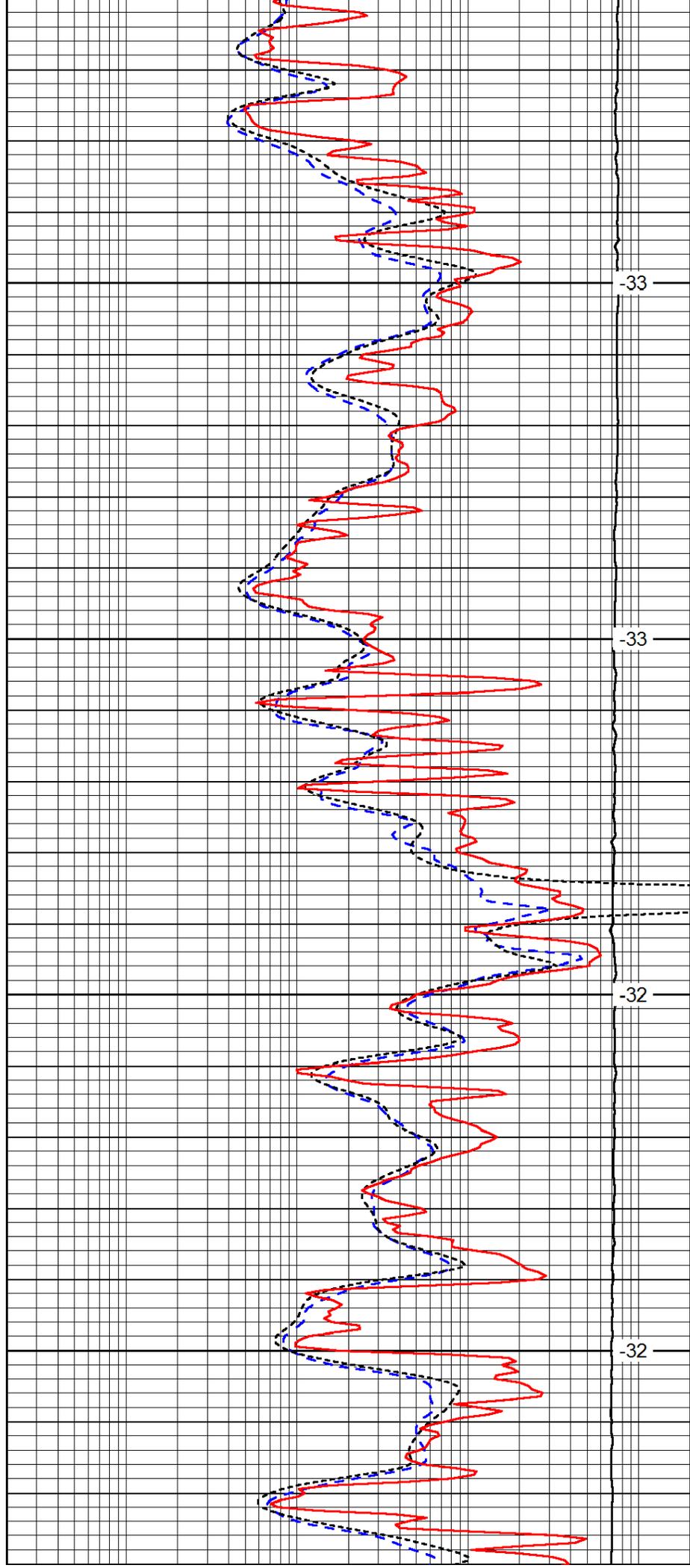


3150

3200

3250

3300

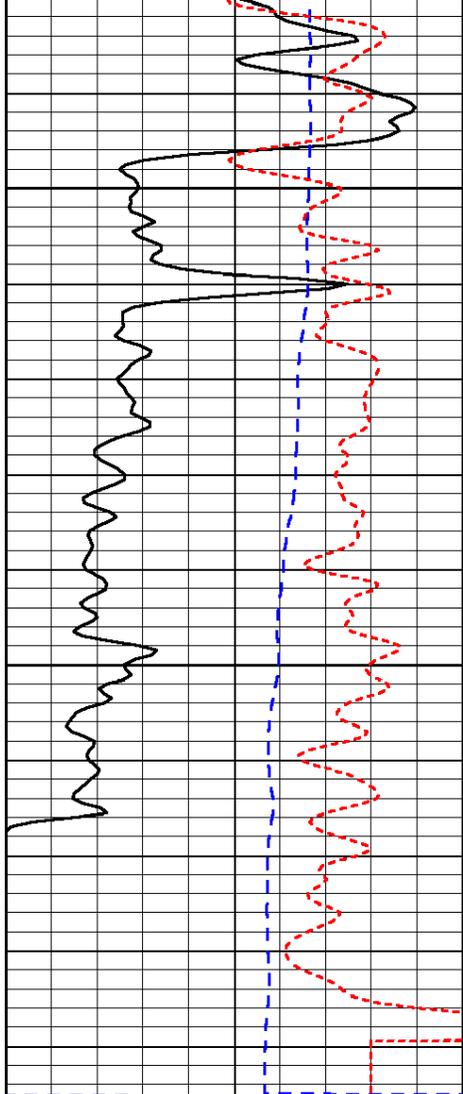


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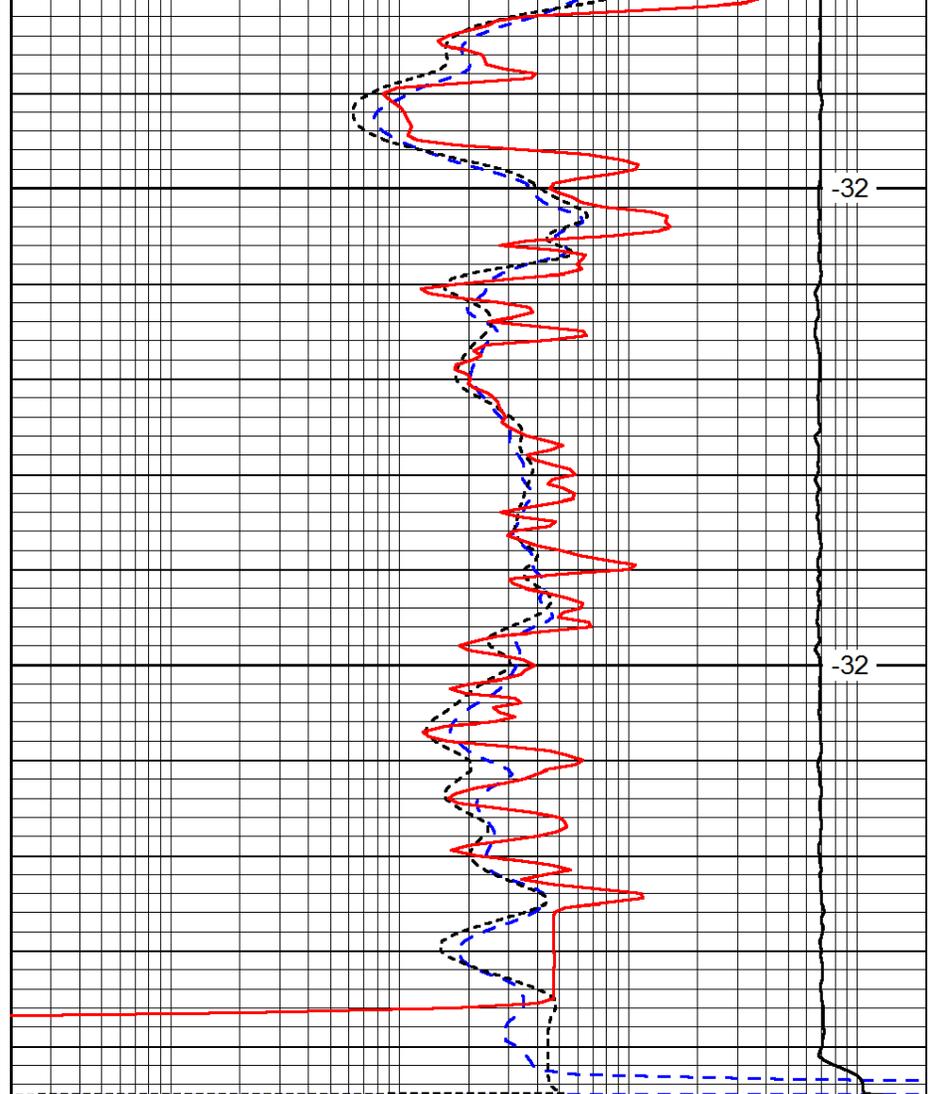
32



3350

3400

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



-32

-32

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

LSPD