



Pioneer Energy Services

Dual Induction Log

API No.	15-009-26,020-00-00	
Company	Hamby Oil, LLC	
Well	Miller No. 3	
Field	Chase-Silica	
County	Barton	State
		Kansas
Location	1650' FNL & 2310' FWL	
Sec: 16	Twp: 20s	Rge: 11w
Permanent Datum	Ground Level	Elevation 1767
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL/CDL MEL
		Elevation K.B. 1775 D.F. 1767 G.L. 1767

Date	5/8/2014
Run Number	One
Depth Driller	3365
Depth Logger	3366
Bottom Logged Interval	3365
Top Log Interval	250
Casing Driller	8.625 @ 267
Casing Logger	264
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	9500
Density / Viscosity	9.2 48
pH / Fluid Loss	8.0 12.0
Source of Sample	Flowline
Rm @ Meas. Temp	.36 @ 72
Rmf @ Meas. Temp	.27 @ 72
Rmc @ Meas. Temp	.49 @ 72
Source of Rmf / Rmc	Charts
Rm @ BHT	.24 @ 110
Operating Rig Time	4 Hours
Max Rec. Temp. F	110
Equipment Number	108
Location	Hays
Recorded By	D. Fischer
Witnessed By	Kurt Talbot

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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 Log-Tech, Inc.
(785) 625-3858

Ellinwood Ks., 2 South, 2 East, 1/2 South, East Into.

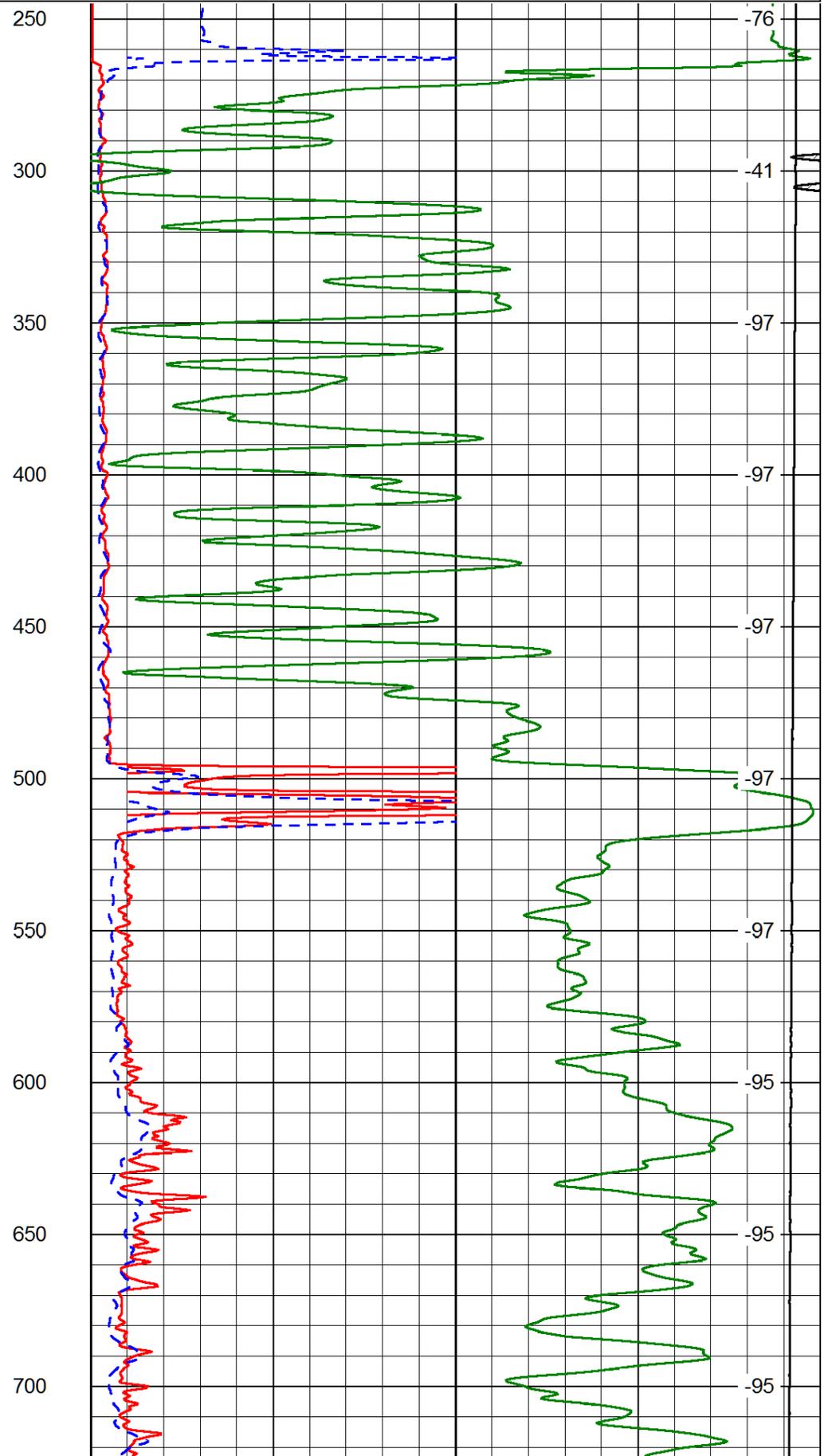
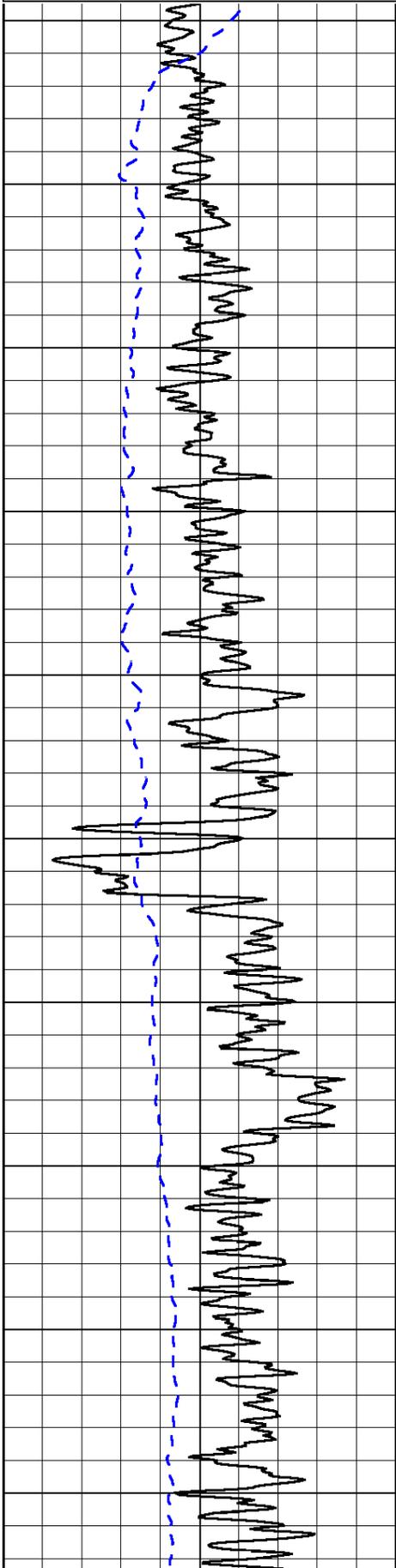
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 Dataset Pathname: DIL/hbymain
 Presentation Format: dil2in
 Dataset Creation: Mon Sep 08 12:59:42 2014
 Charted by: Depth in Feet scaled 1:600

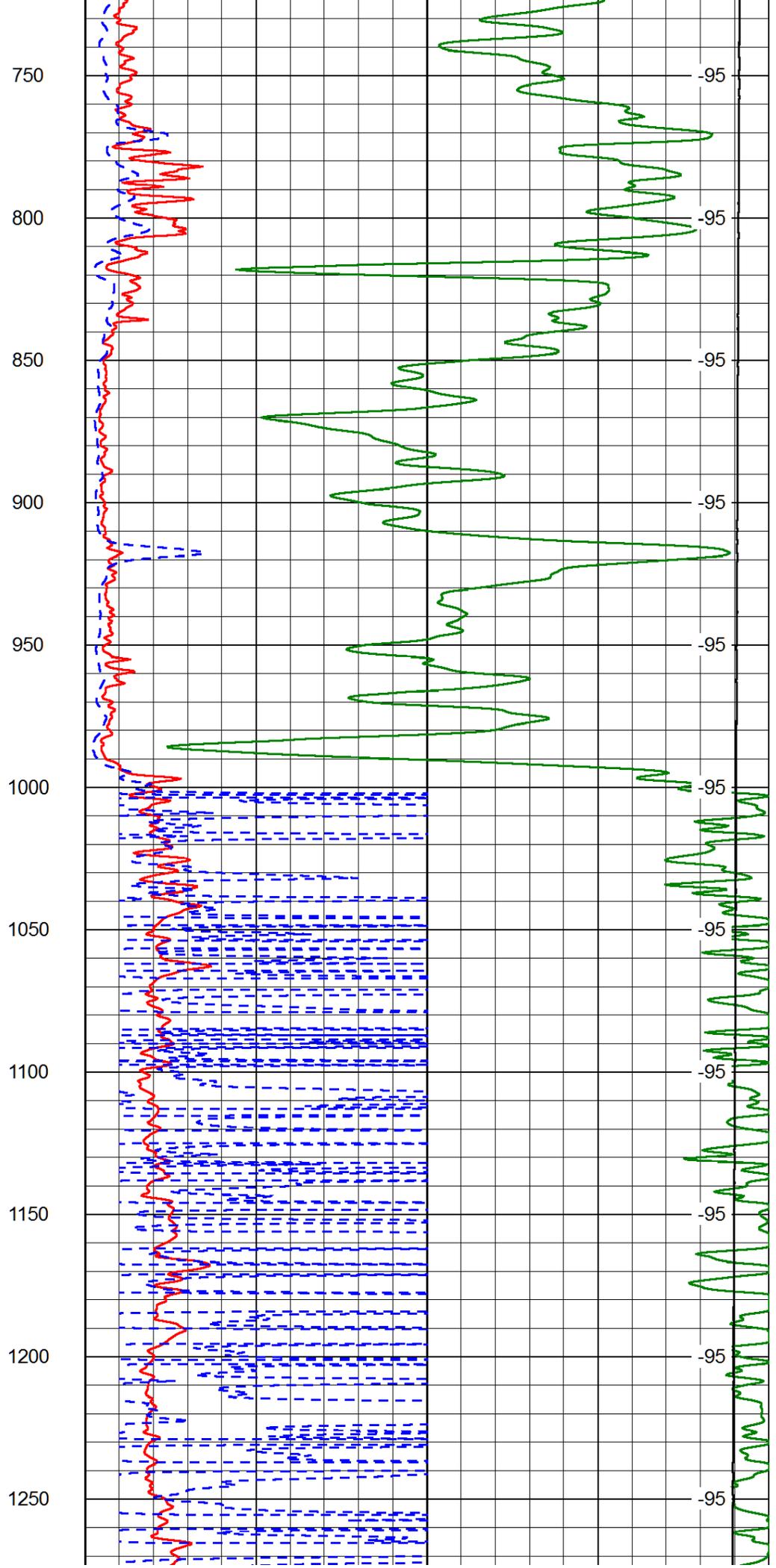
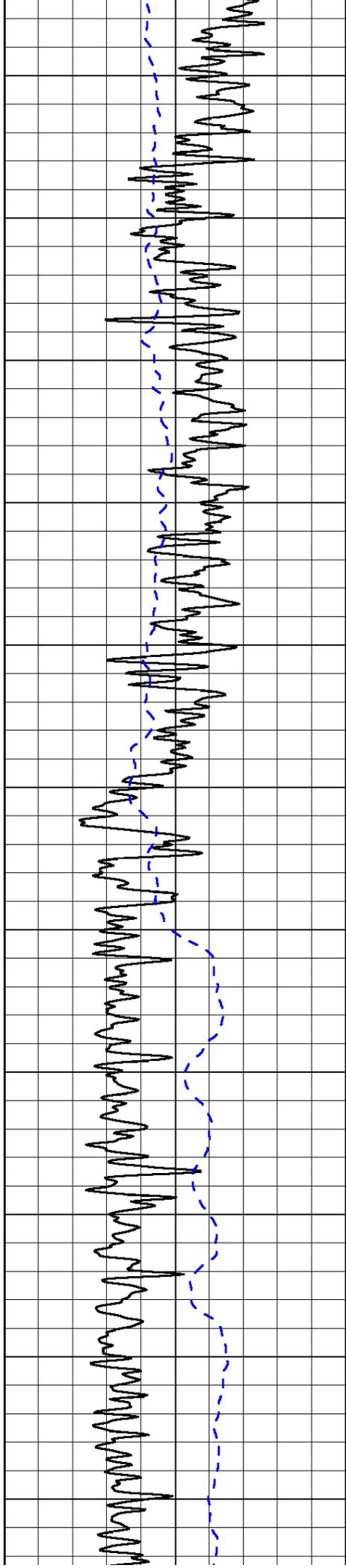
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-200	SP (mV)	0

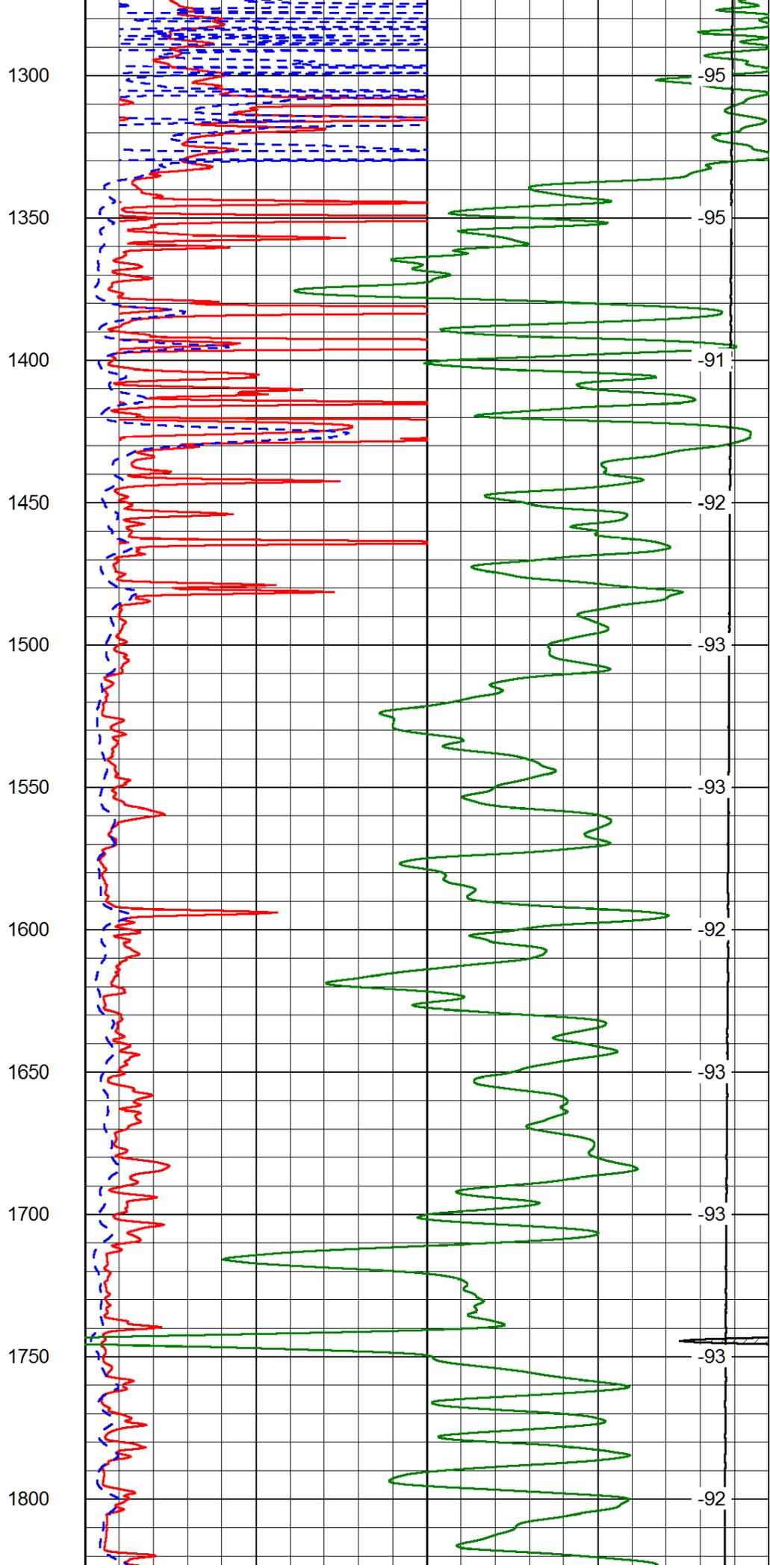
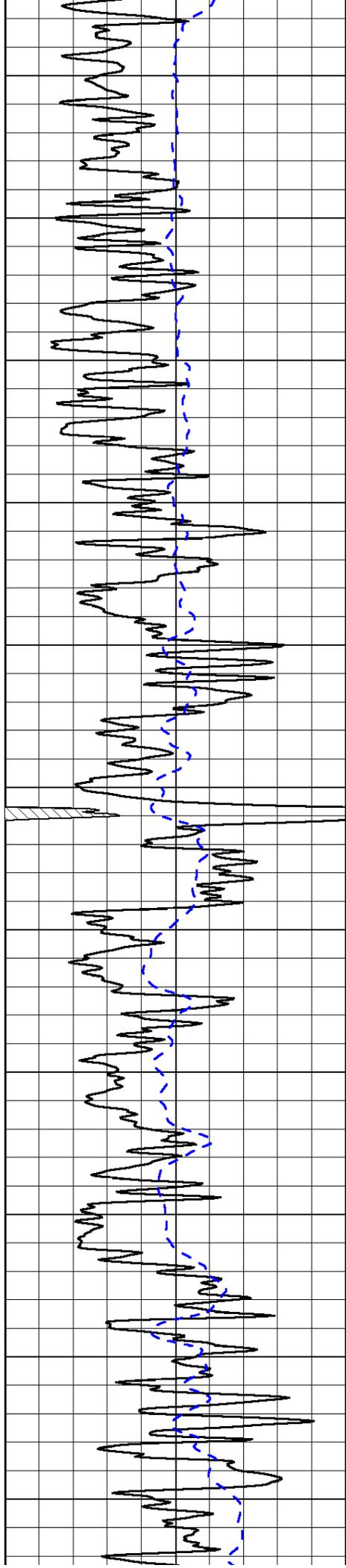
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

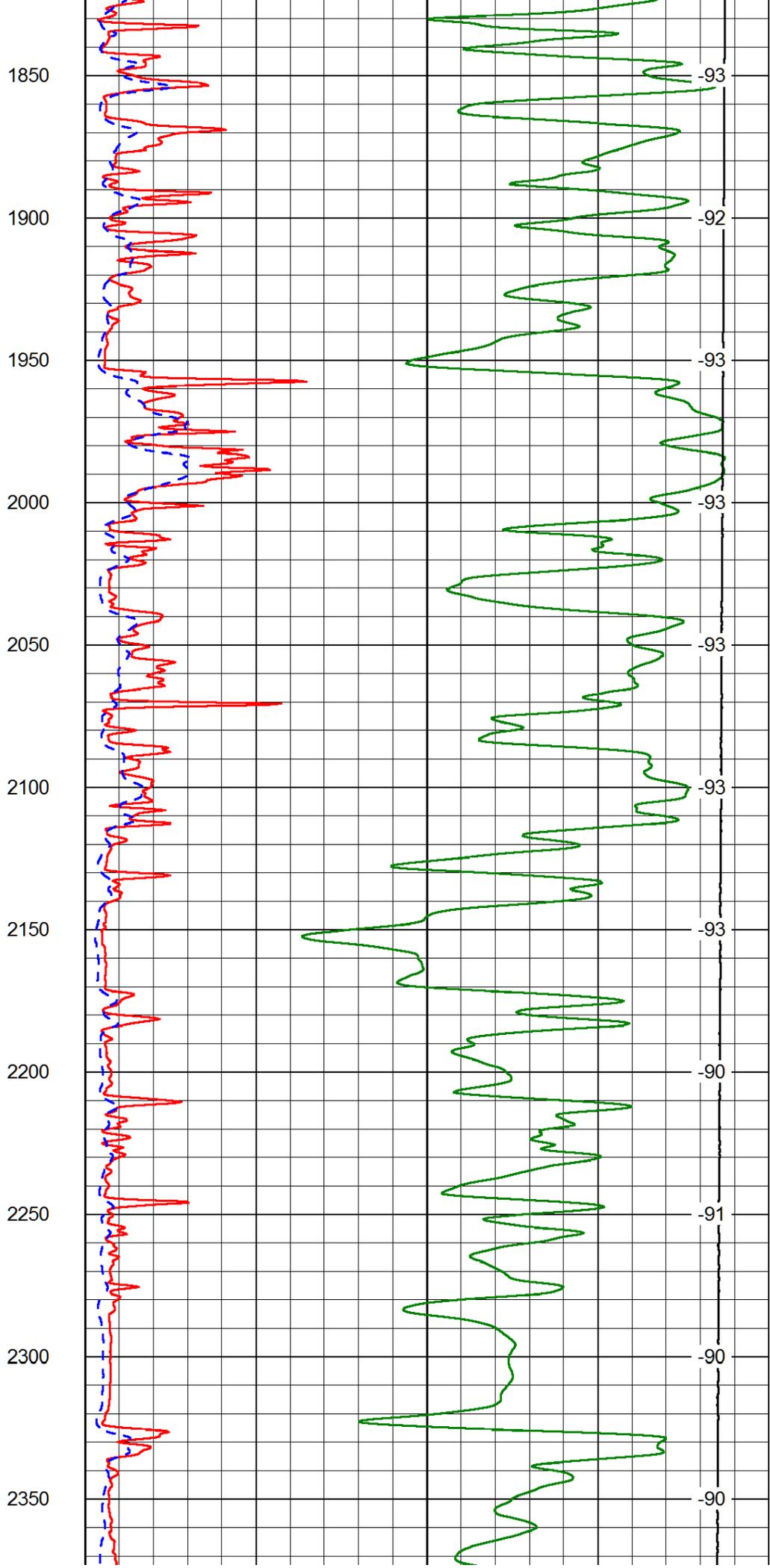
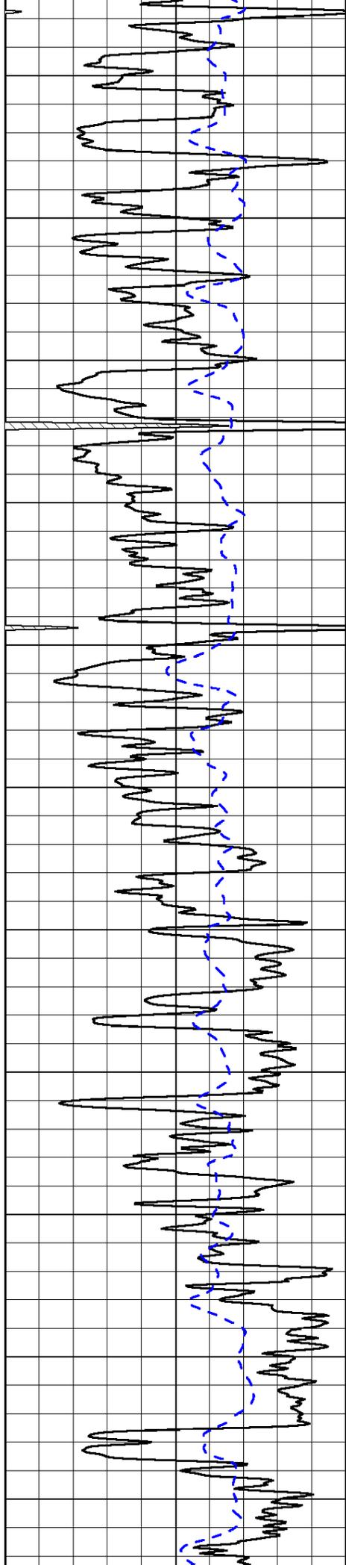
LSPD

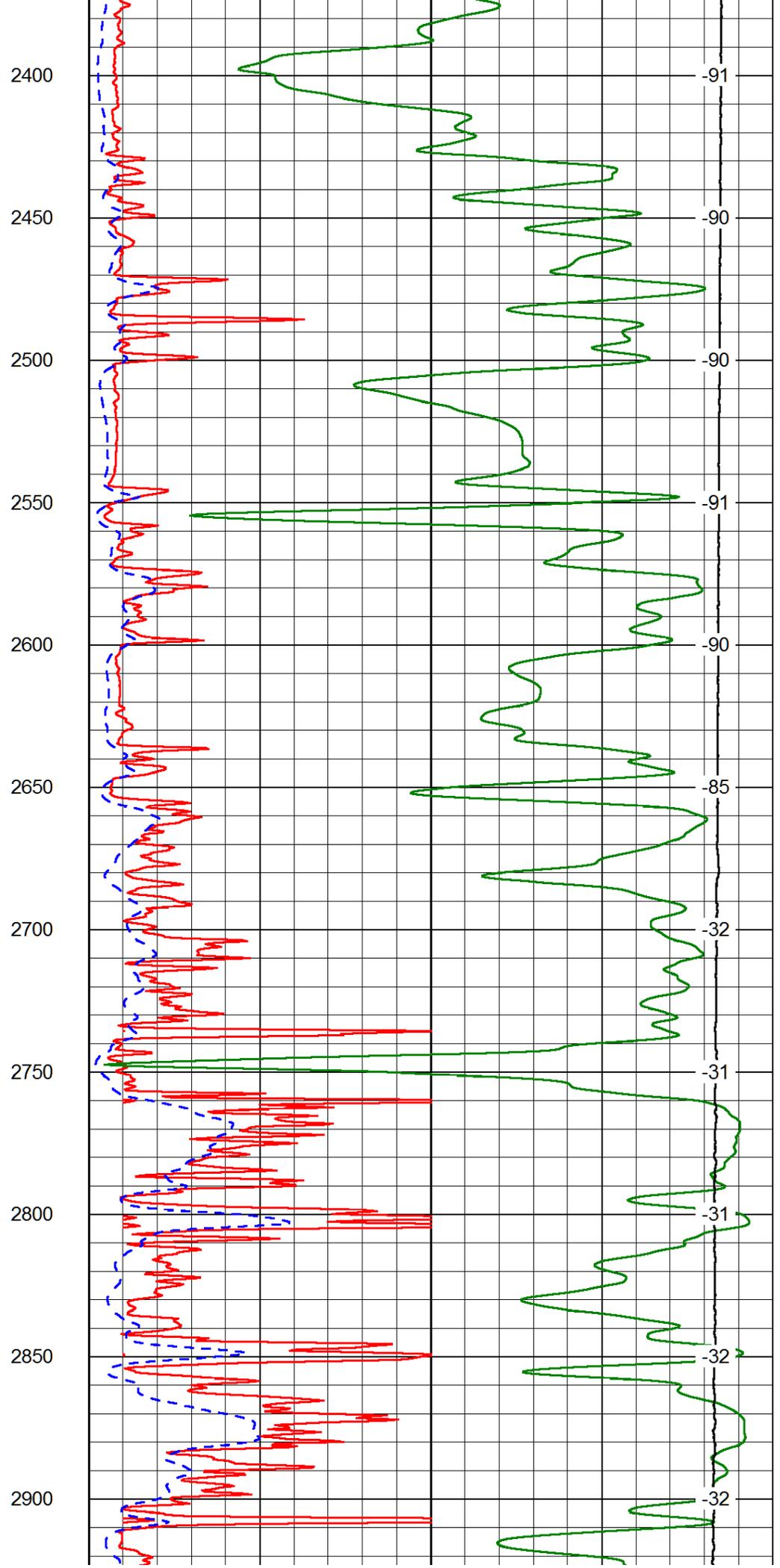
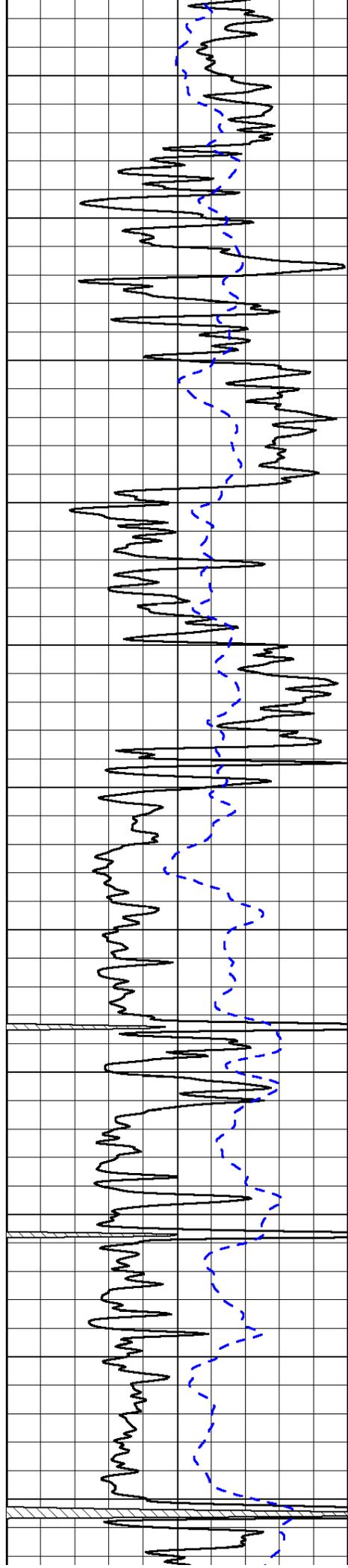
50	Shallow Resistivity	500
50	Deep Resistivity	500









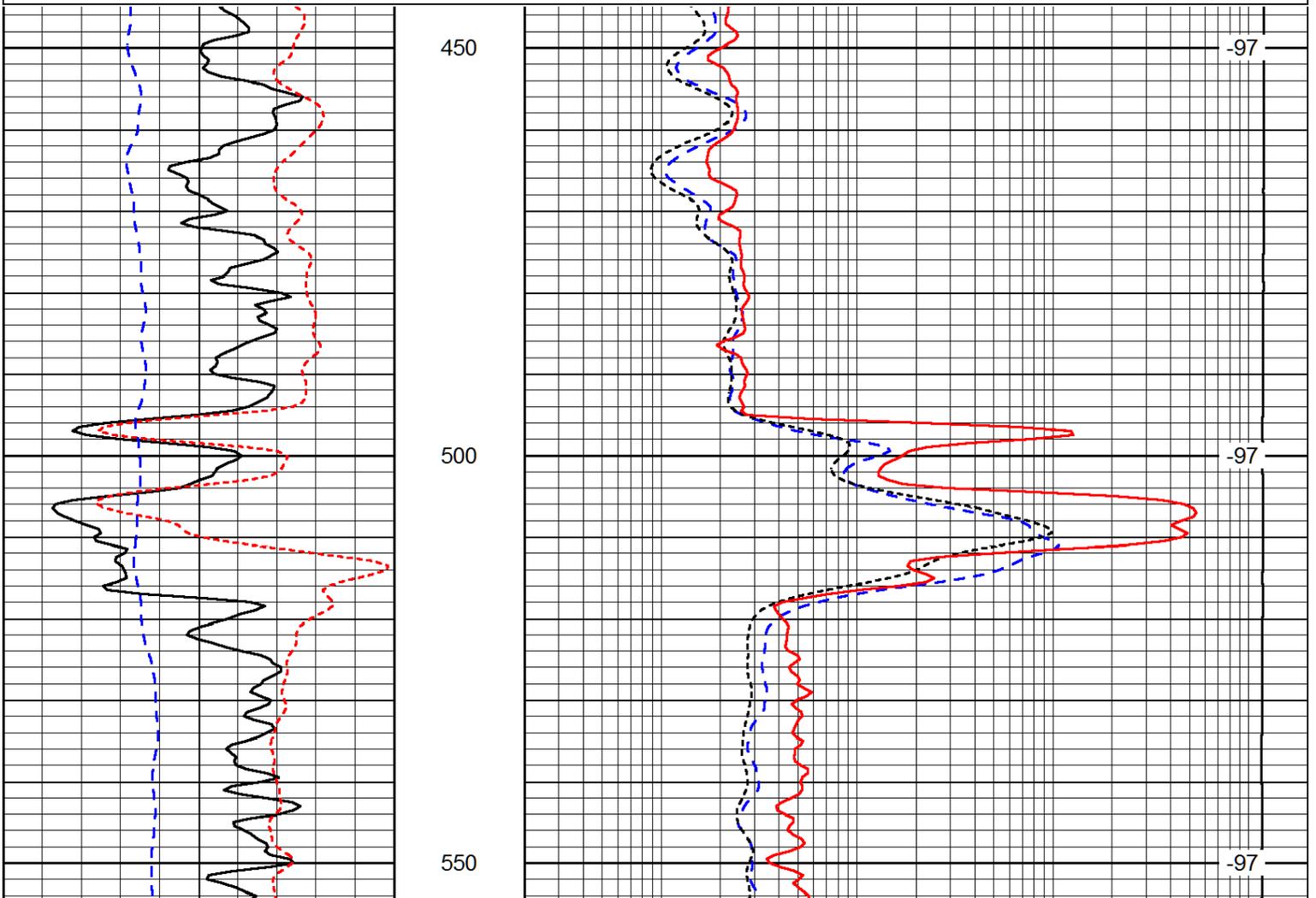


Dataset Pathname: DIL/hbymain
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 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD



0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

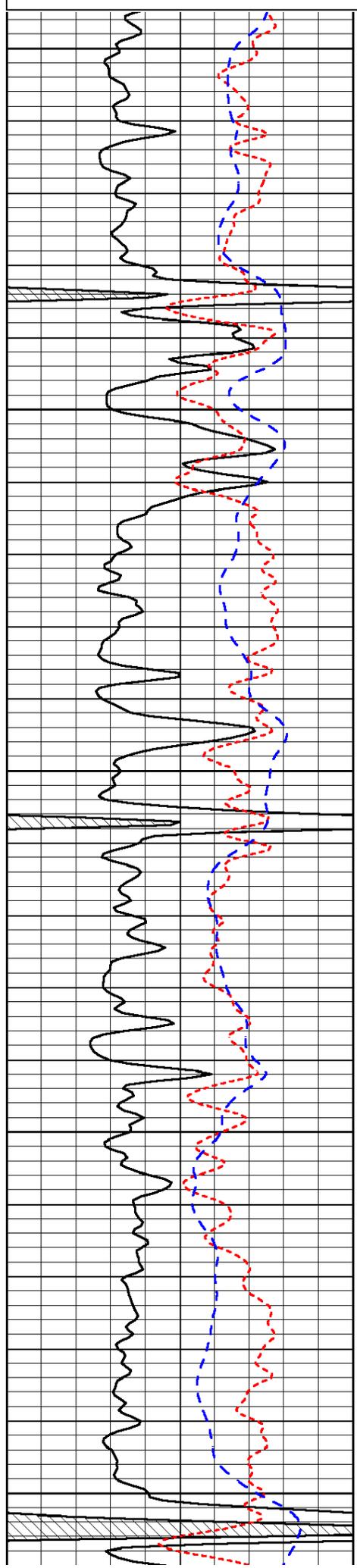
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

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10000	Line Tension	0



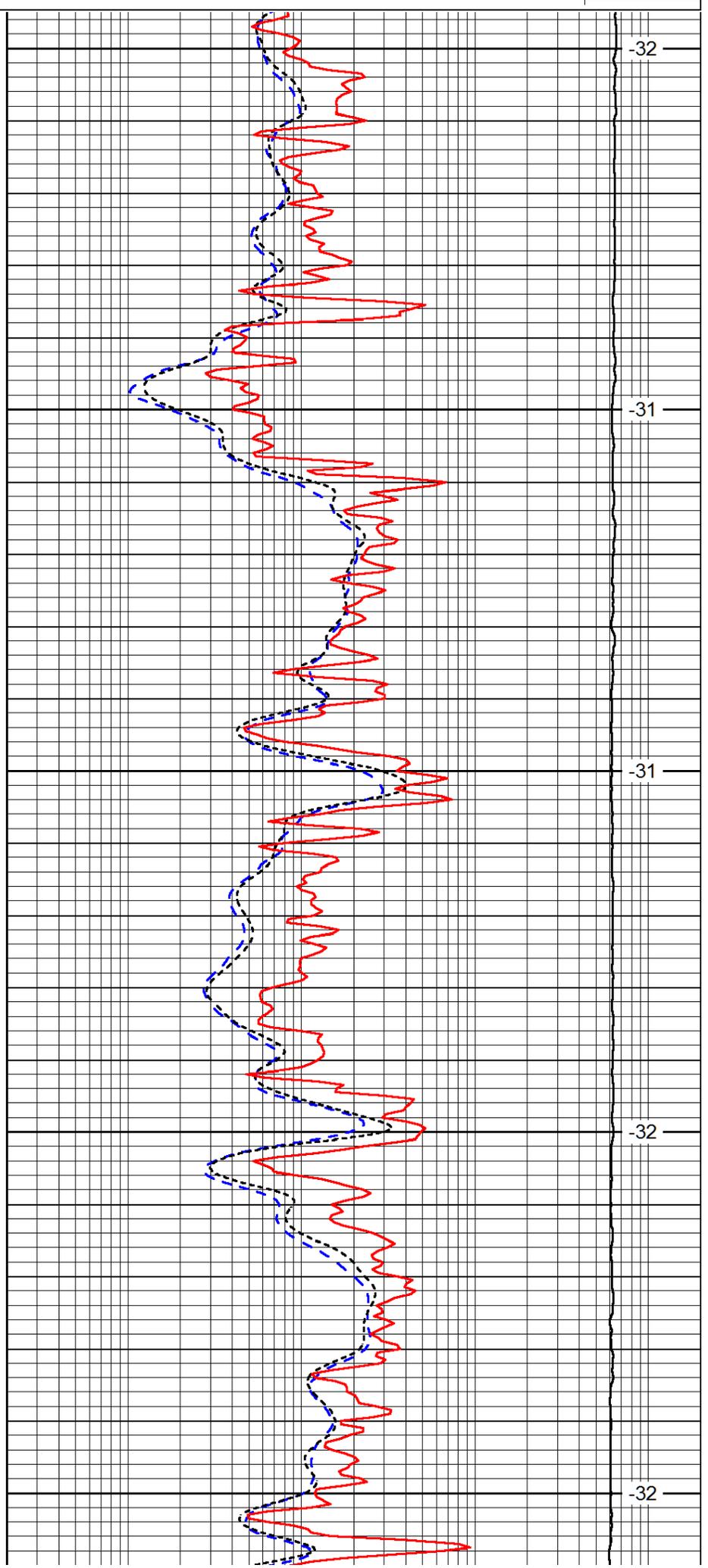
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2750

2800

2850

2900



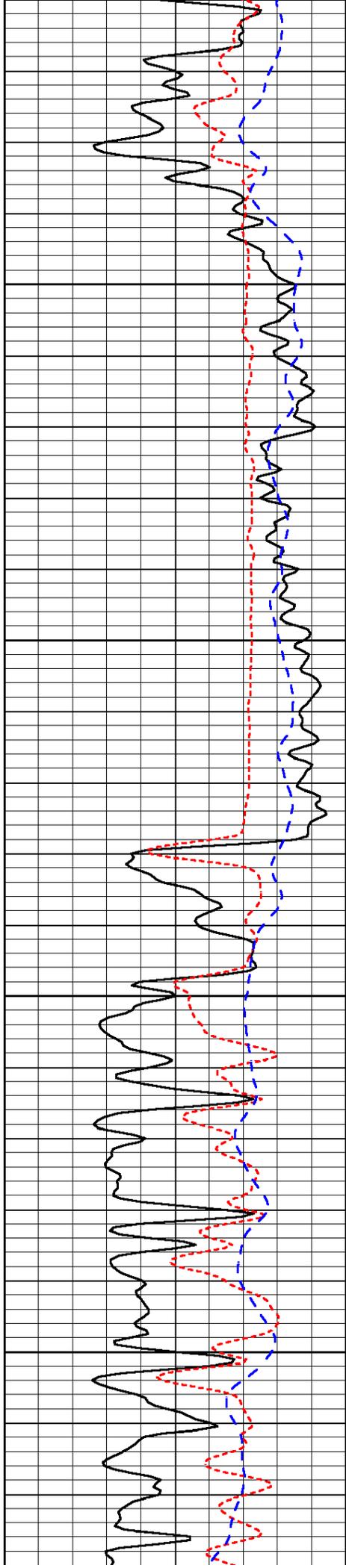
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-31

-31

-32

-32

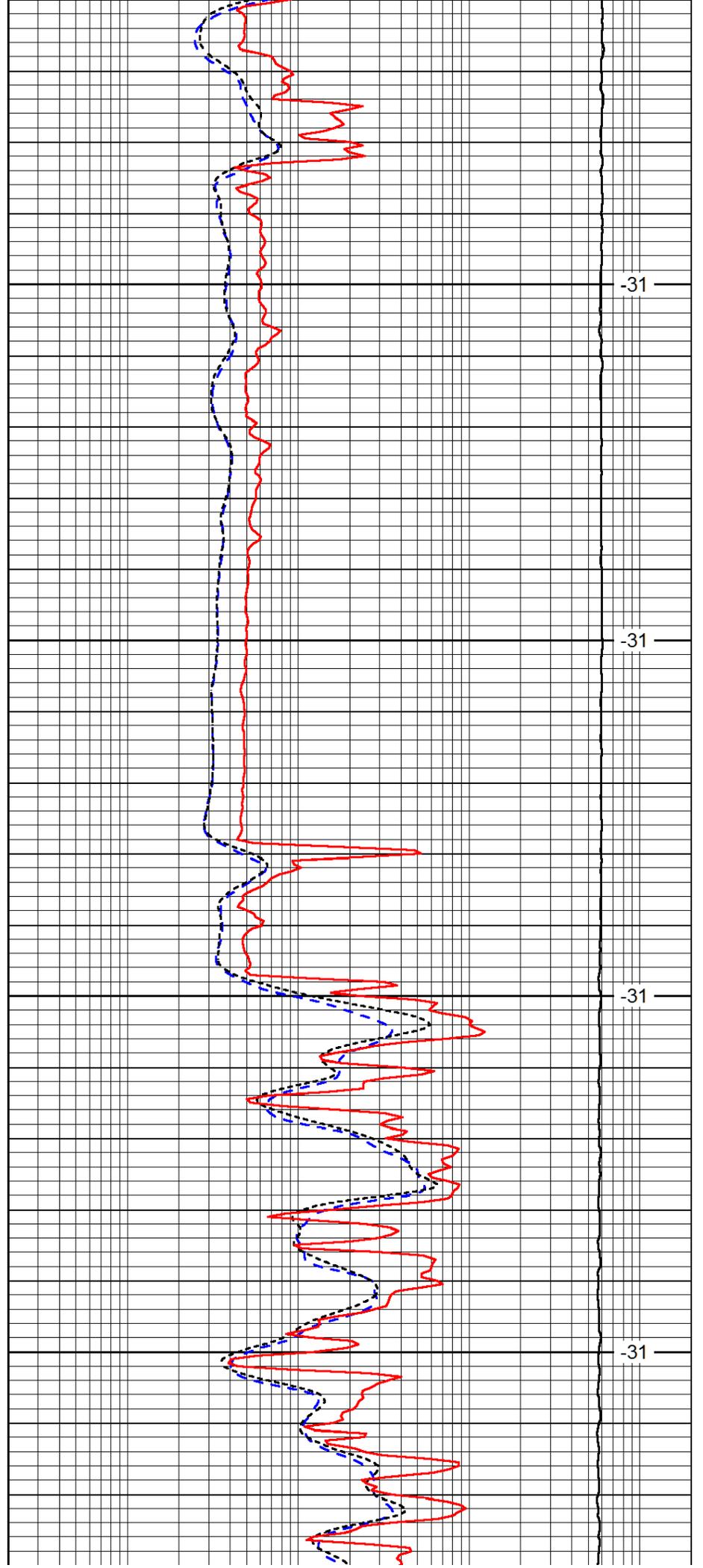


2950

3000

3050

3100

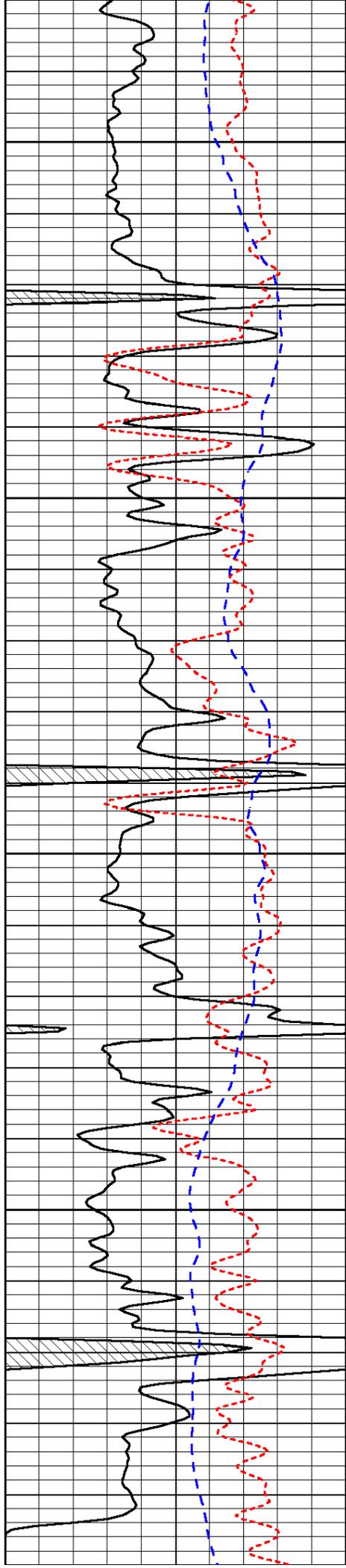


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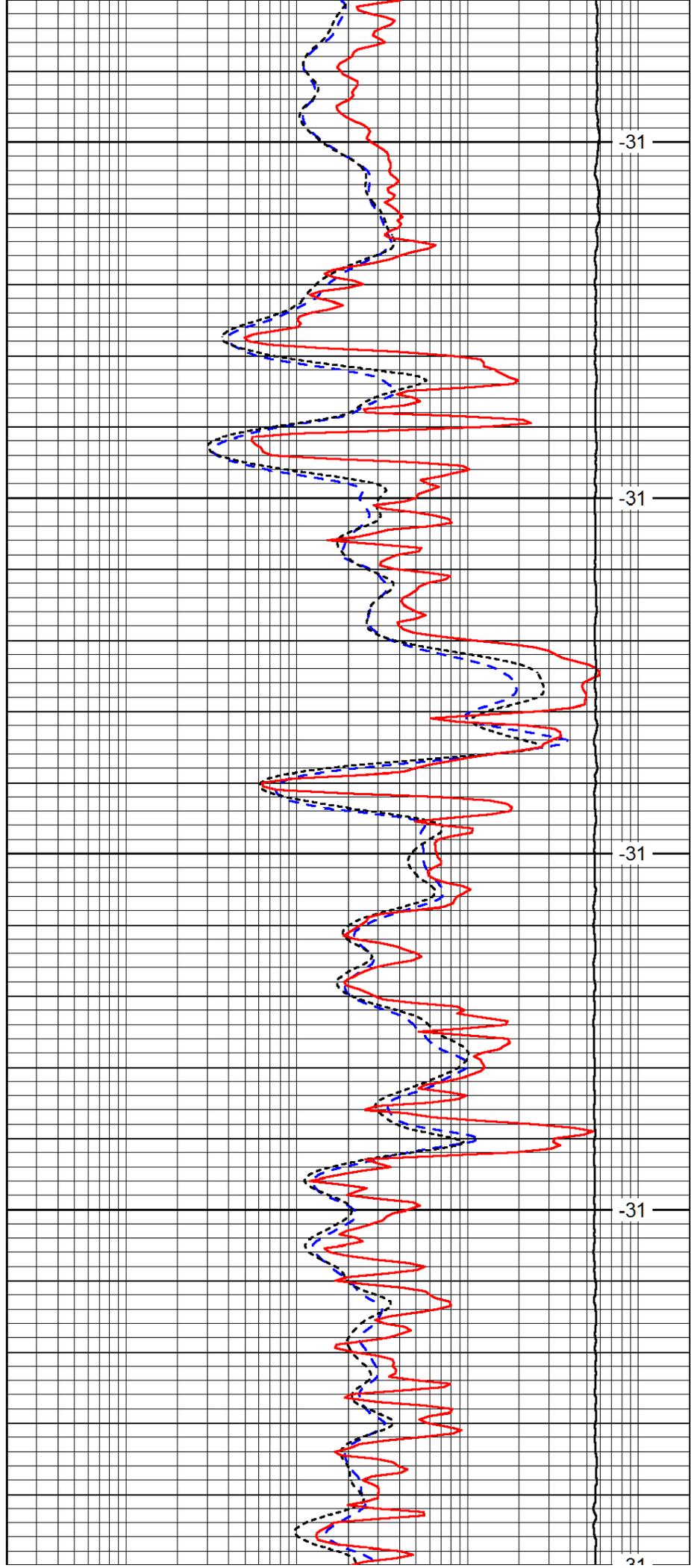
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3200

3250

3300

3350



-31

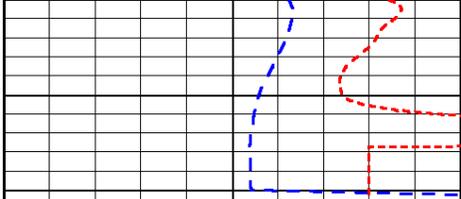
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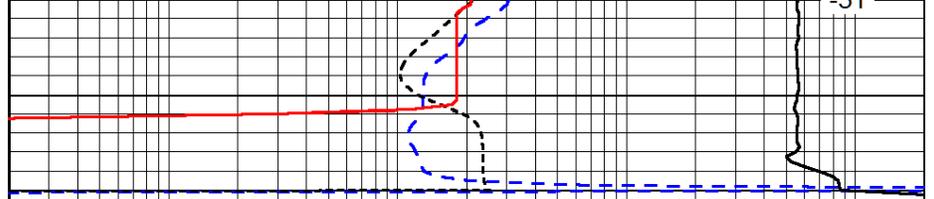
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5550



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-160	RXO/RT	40
-200	SP (mV)	0



0.2	Deep Resistivity	2000
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0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD