



DUAL INDUCTION LOG

Company TDI, INC.		Company TDI, INC.	
Well	MARCOTTE #1	Well	MARCOTTE #1
Field	HAYDEN NORTHWEST	Field	HAYDEN NORTHWEST
County	ROOKS	County	ROOKS
State	KANSAS	State	KANSAS
Location:	API #: 15-163-24297-00-00	Other Services	
	1285' FSL & 1190' FWL	CNL/CDL	
	SEC 29 TWP 8S RGE 19W	MEL	
Permanent Datum	GROUND LEVEL	Elevation	2034
Log Measured From	KELLY BUSHING	K.B.	2044
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	2034
Date	7/10/2015		
Run Number	ONE		
Depth Driller	3580		
Depth Logger	3582		
Bottom Logged Interval	3581		
Top Log Interval	200		
Casing Driller	8.625 @ 229		
Casing Logger	229		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	1200		
Density / Viscosity	9.4 55		
pH / Fluid Loss	10.5 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.90 @ 70		
Rmf @ Meas. Temp	0.68 @ 70		
Rmc @ Meas. Temp	1.22 @ 70		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.56 @ 112		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	112		
Equipment Number	91		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	TOM DENNING	HERB DEINES	

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

ZURICH,
6 NORTH, 1 3/4 WEST,
NORTH INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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Your Pioneer Energy Services Crew

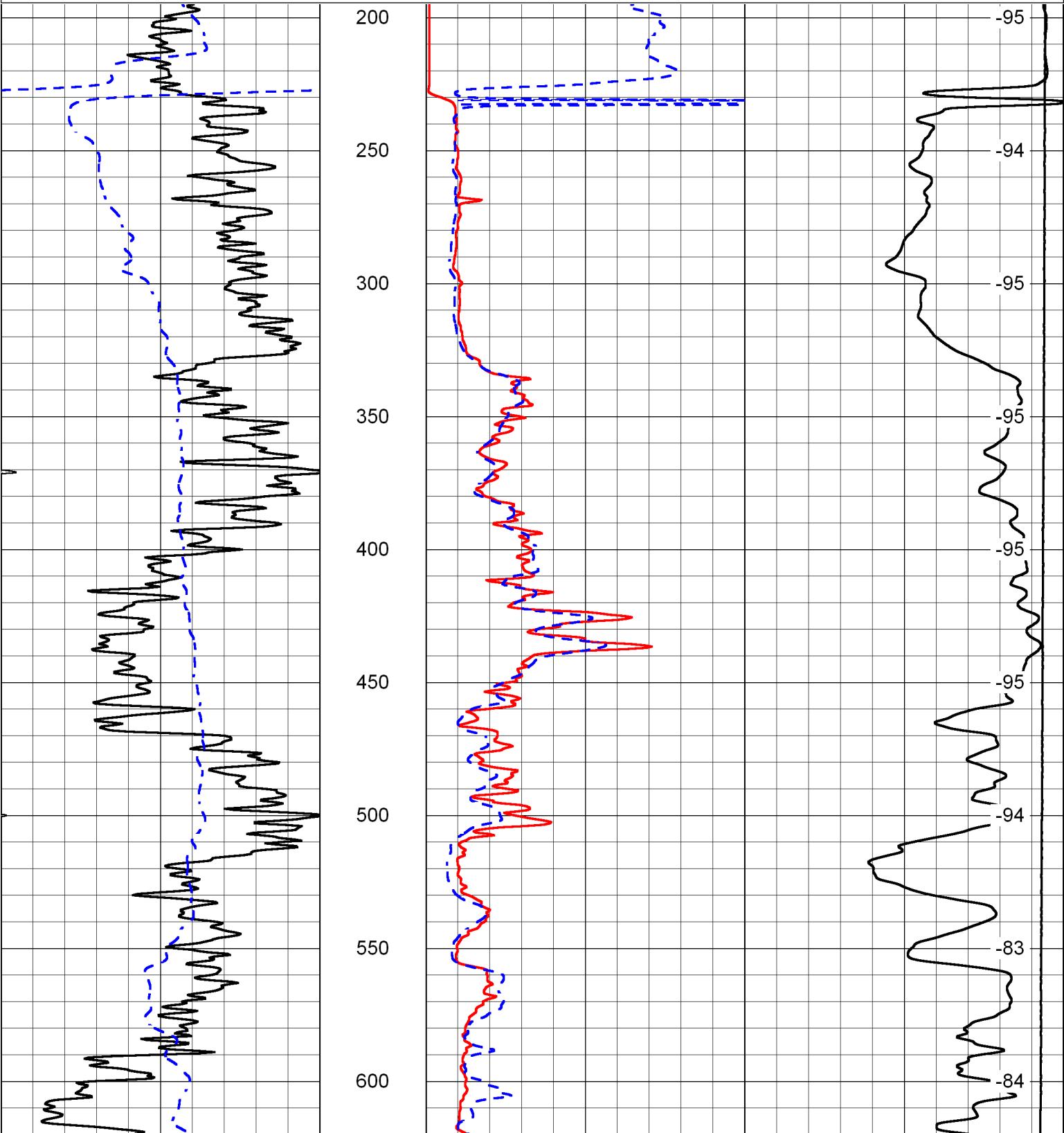
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

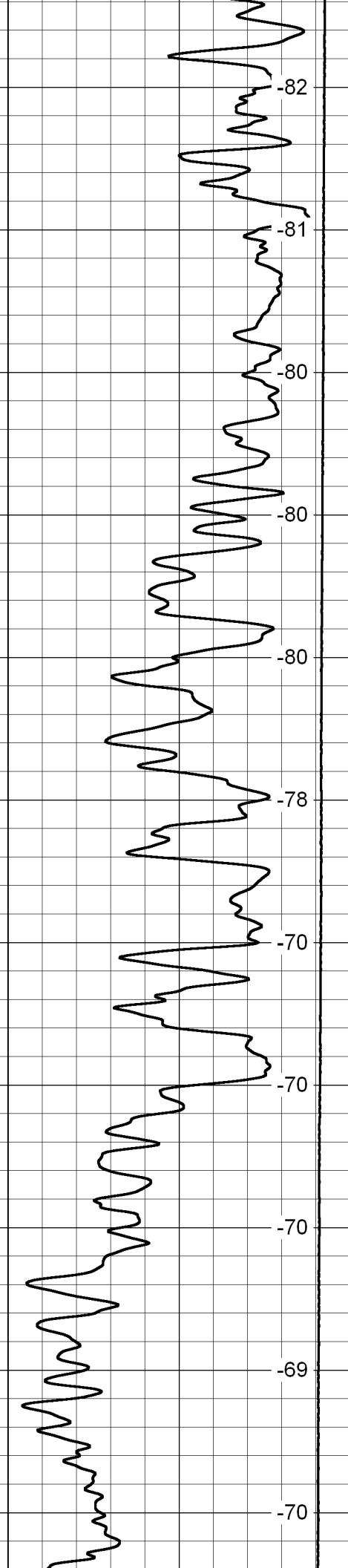
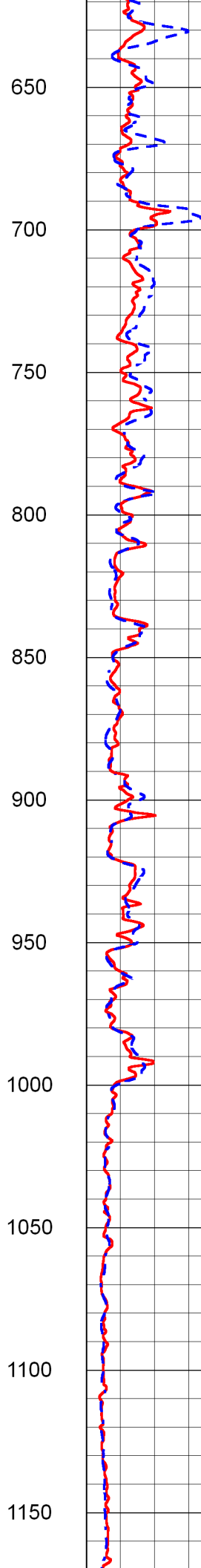
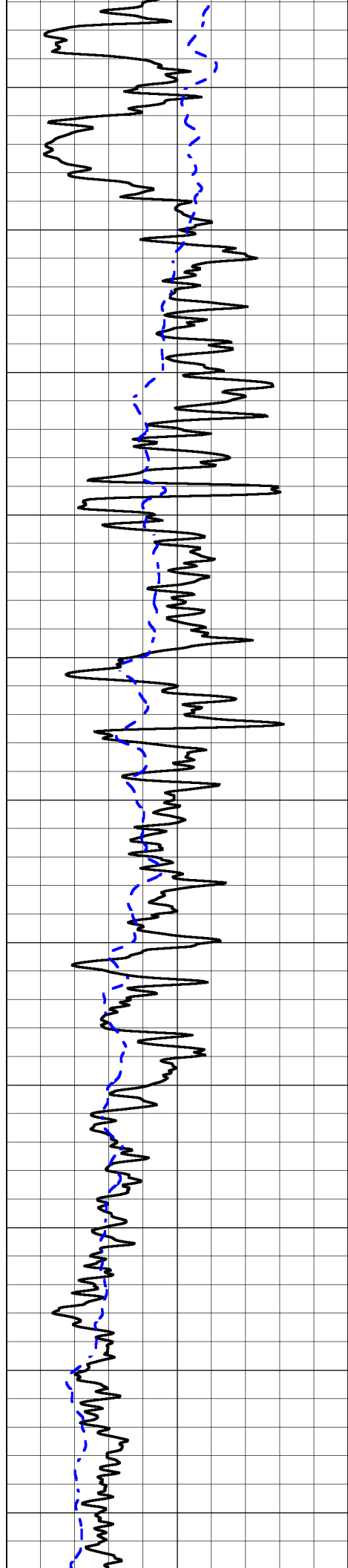
This Log Record Was Witnessed By

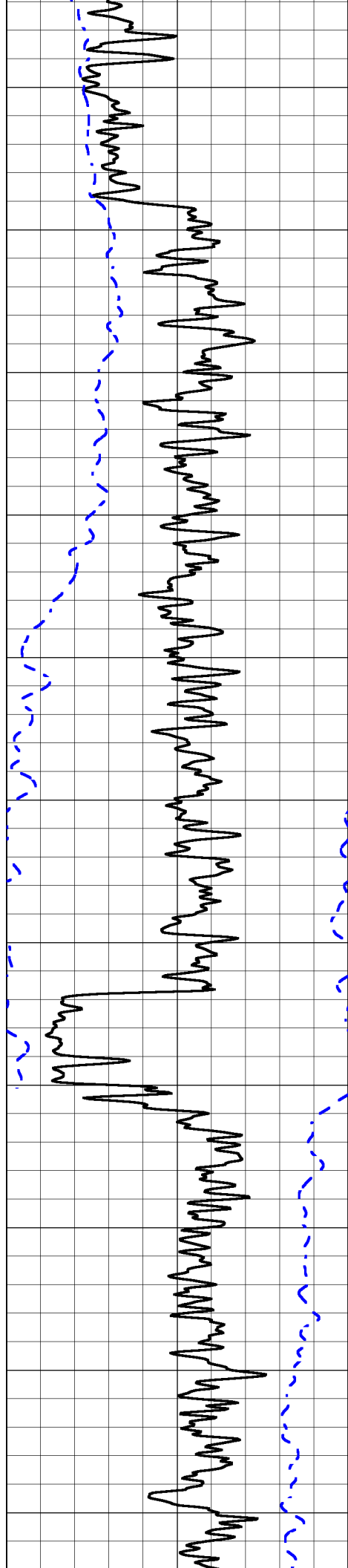
Primary Witness: TOM DENNING
Secondary Witness: HERB DEINES
Secondary Witness:
Secondary Witness:

Database File	tdi_marcotte #1\tdi_marcotte_1hd.db
Dataset Pathname	DIL/tdstack
Presentation Format	dil2in
Dataset Creation	Fri Jul 10 10:02:11 2015
Charted by	Depth in Feet scaled 1:600

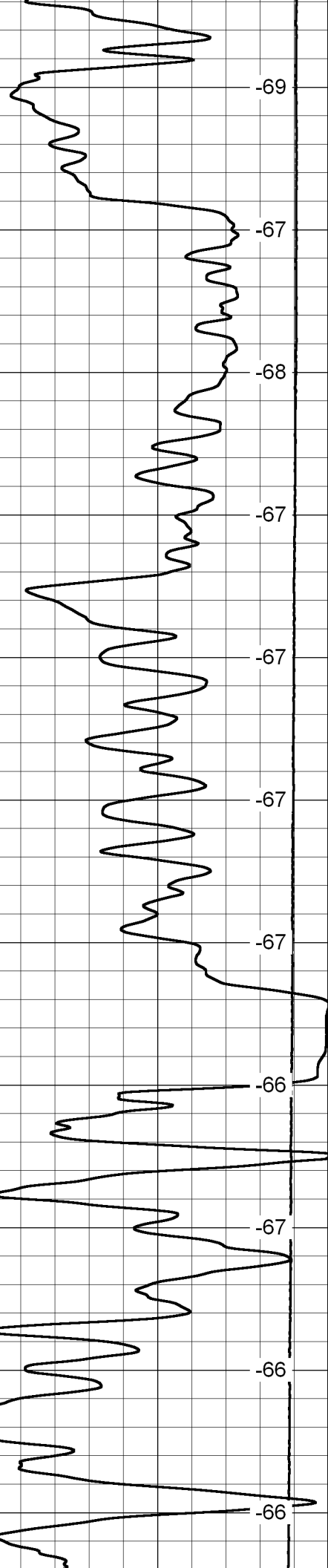
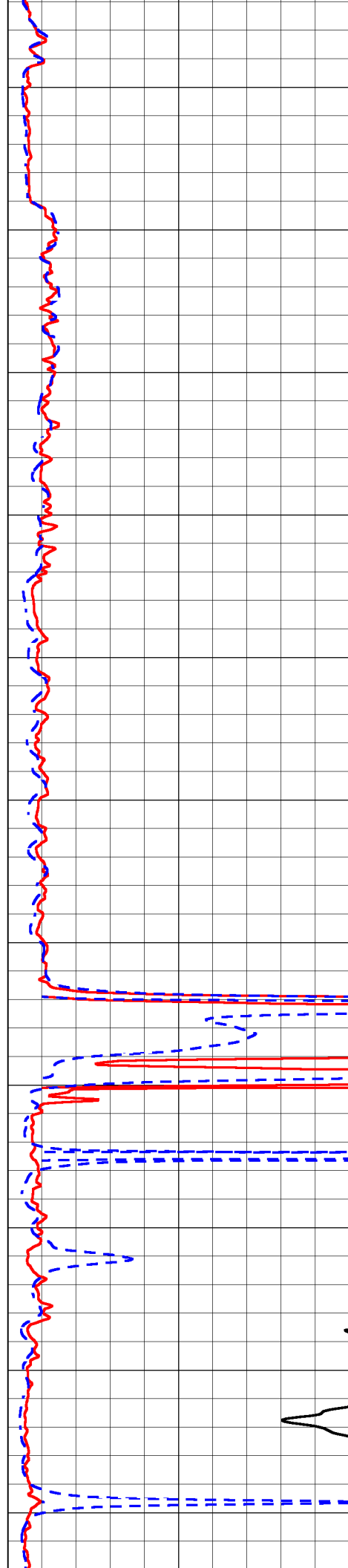
0	Gamma Ray	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension	0
			0	Shallow Resistivity	50
			0	Deep Resistivity	50
			50	Shallow Resistivity	500
			50	Deep Resistivity	500



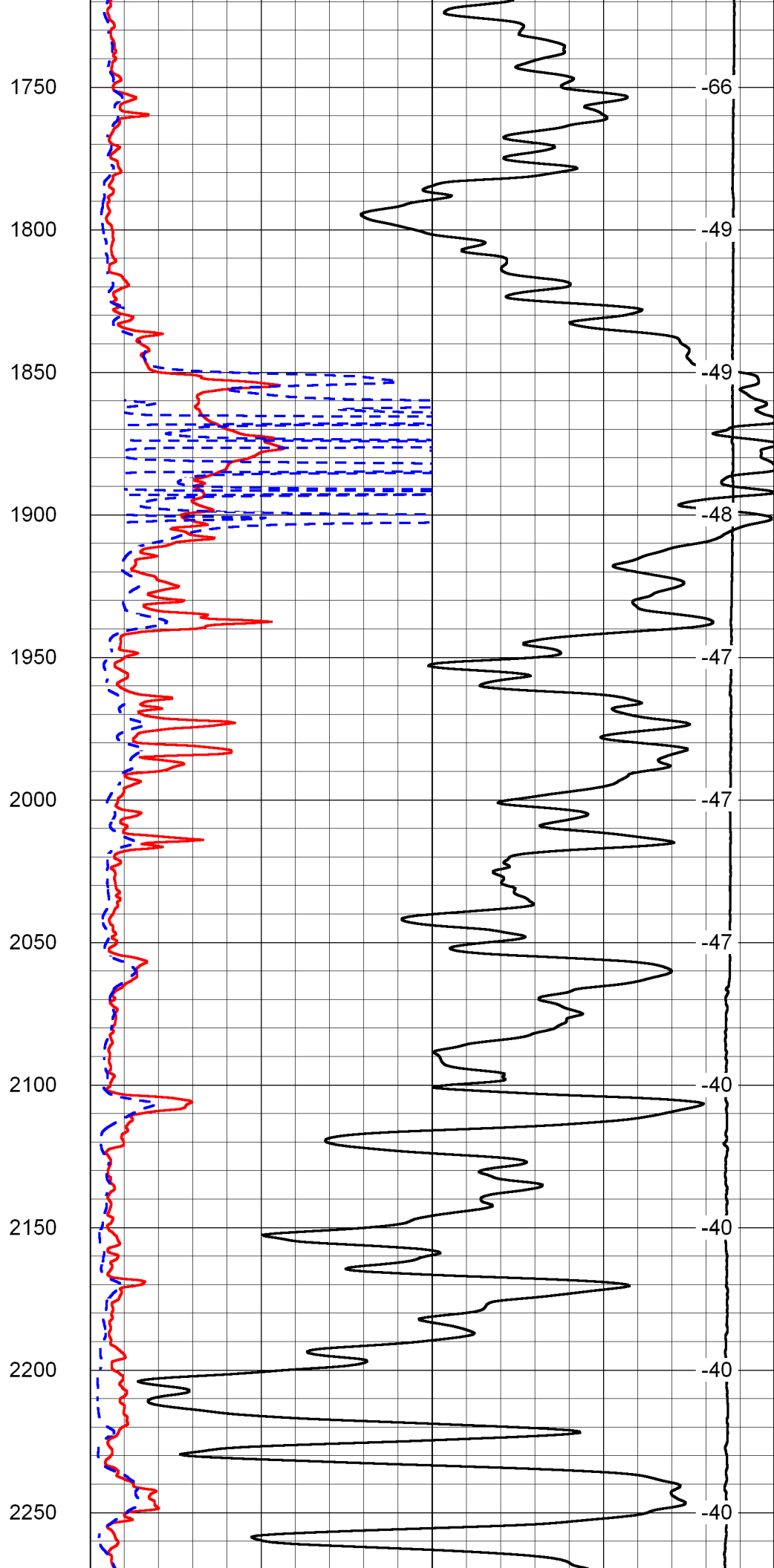
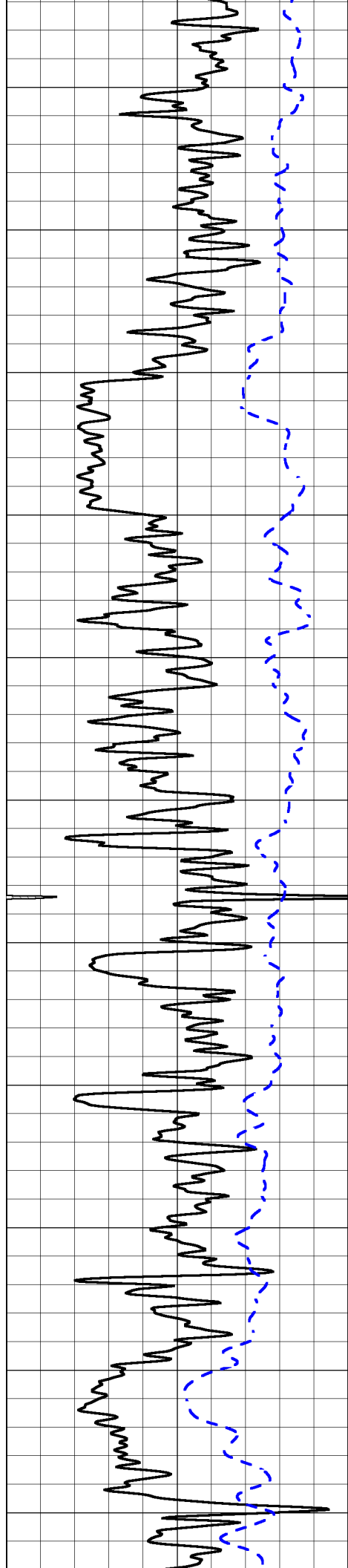


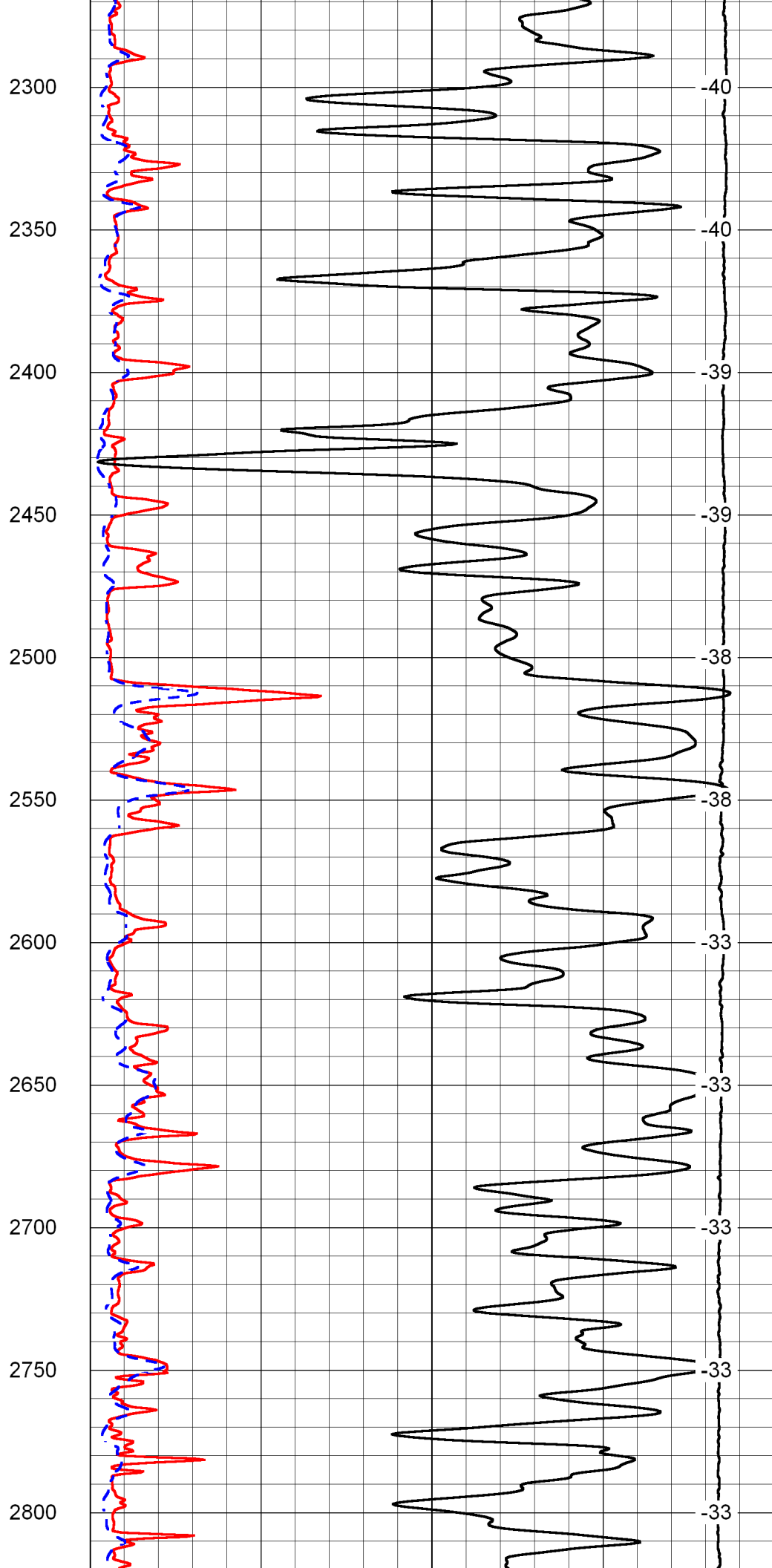
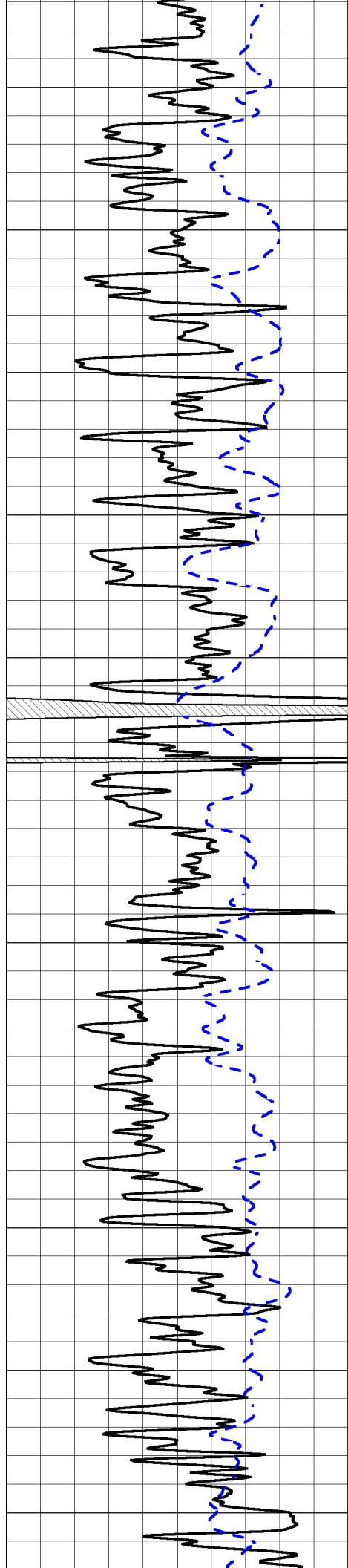


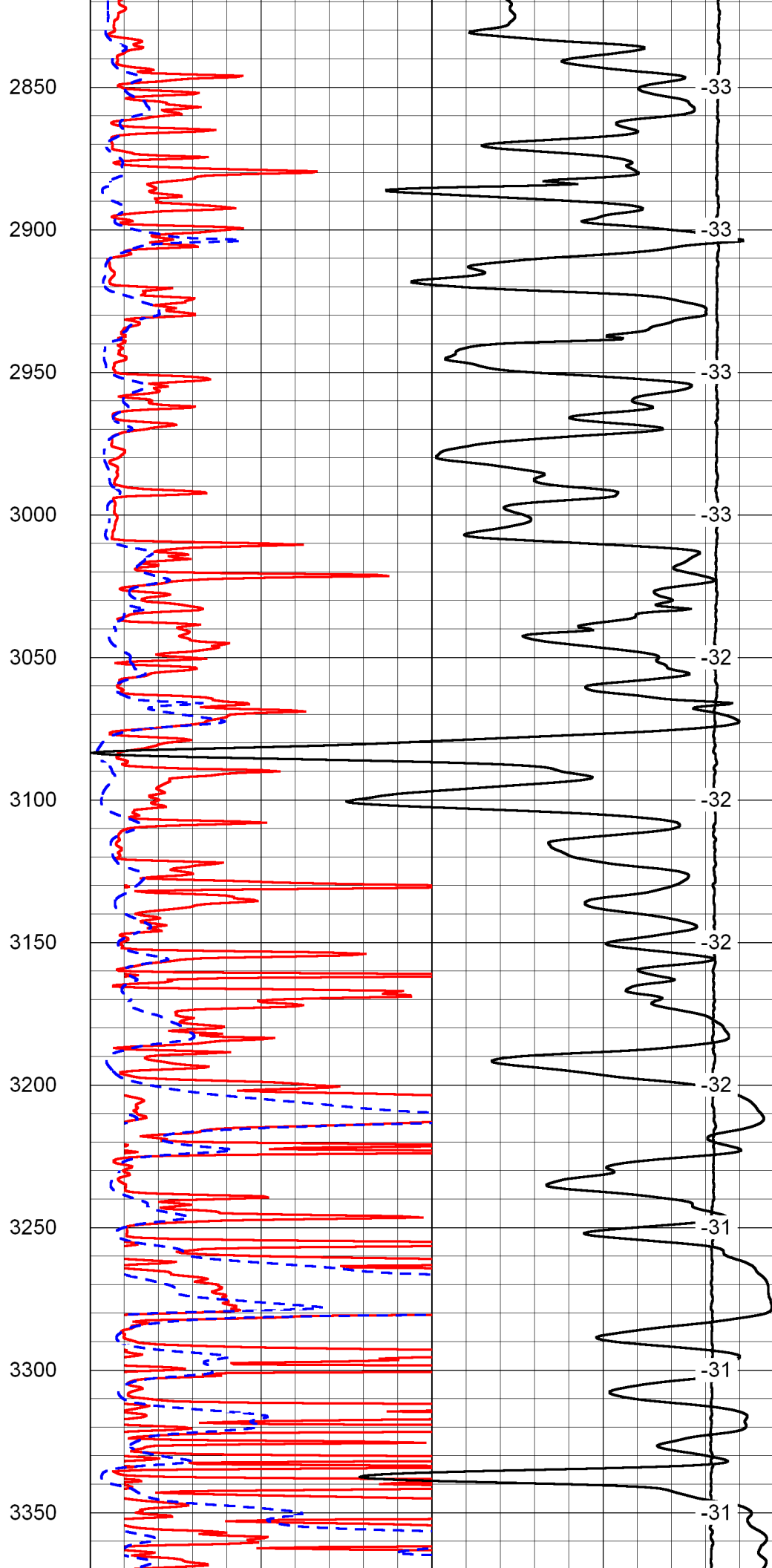
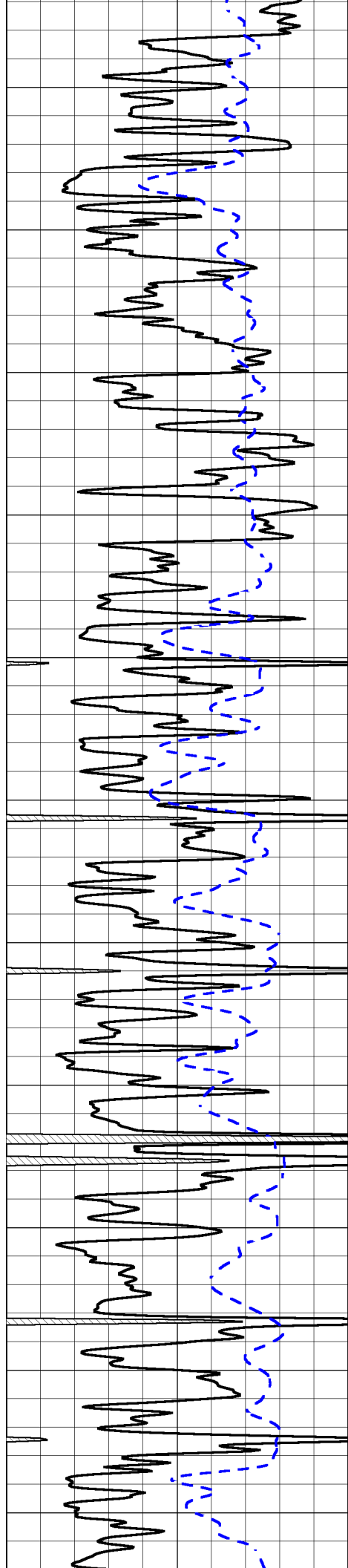
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1500
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1600
1650
1700

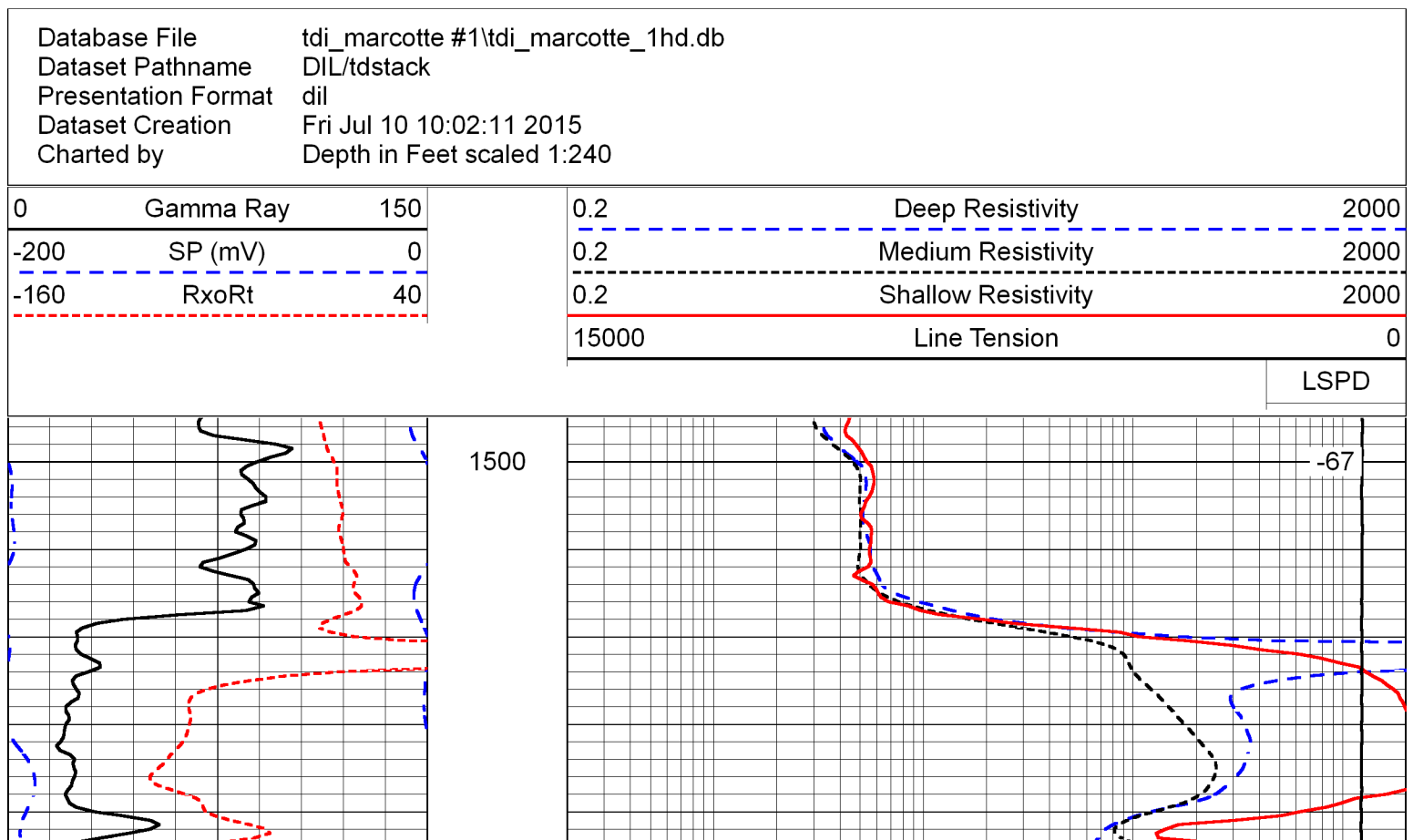
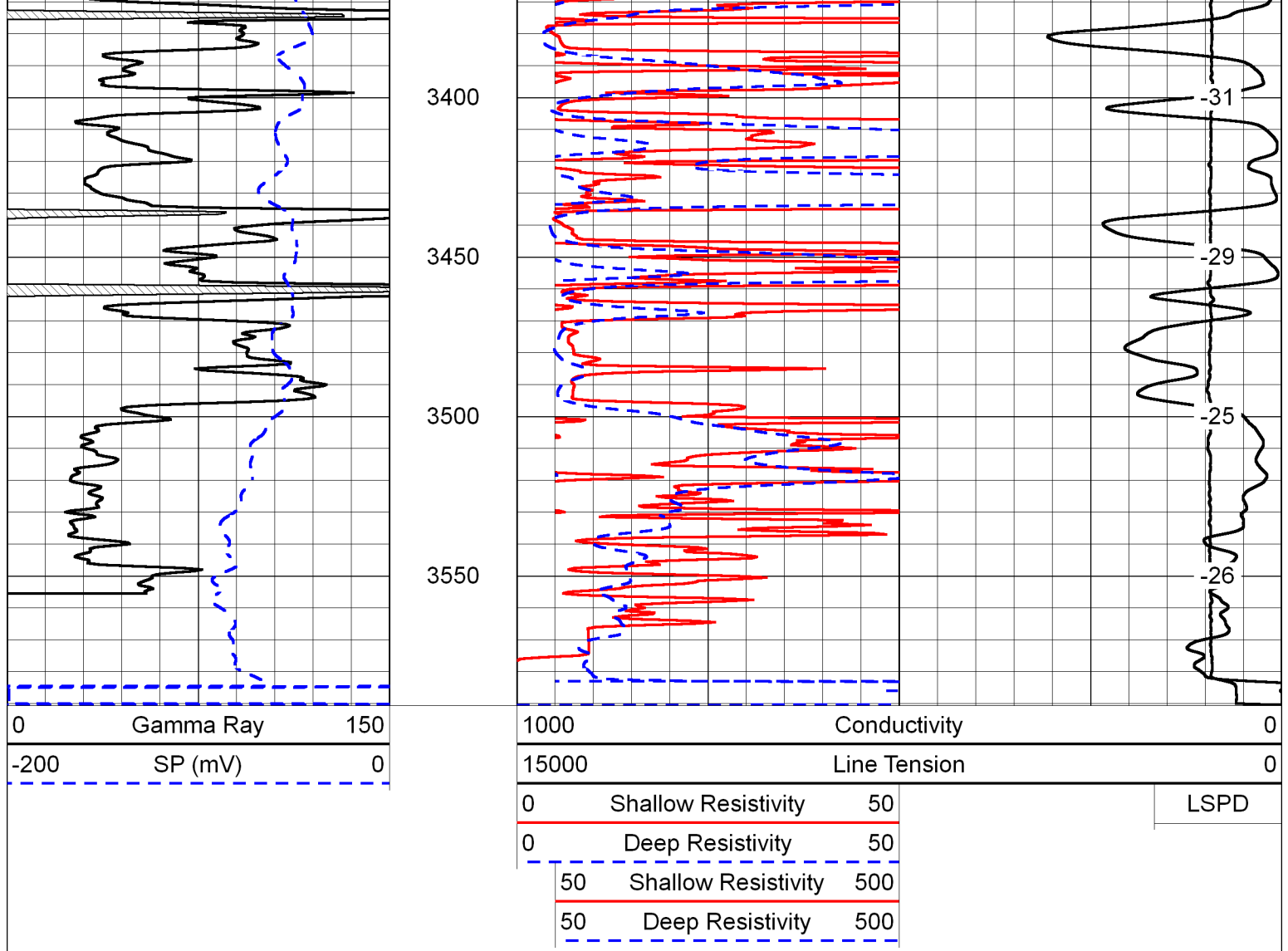


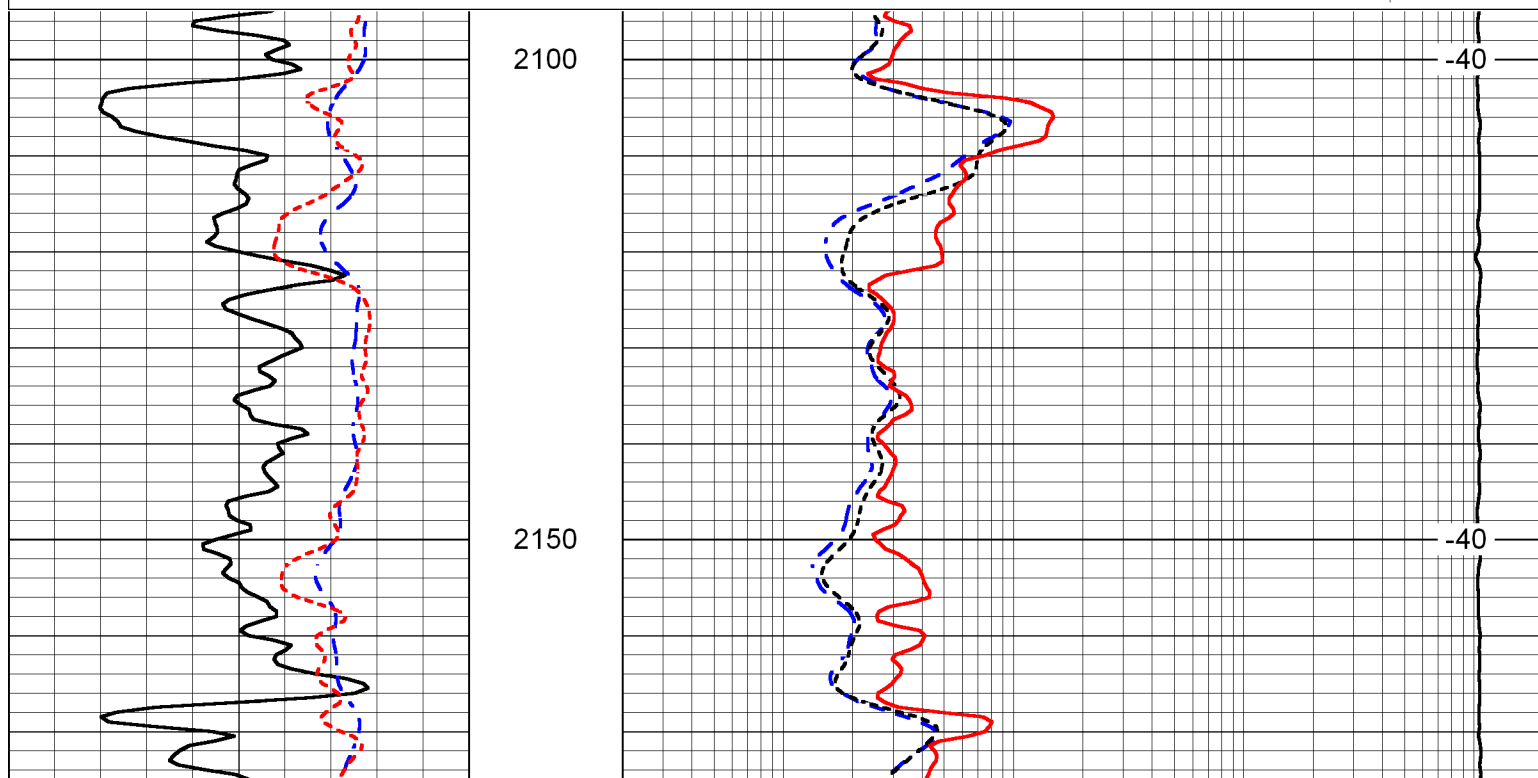
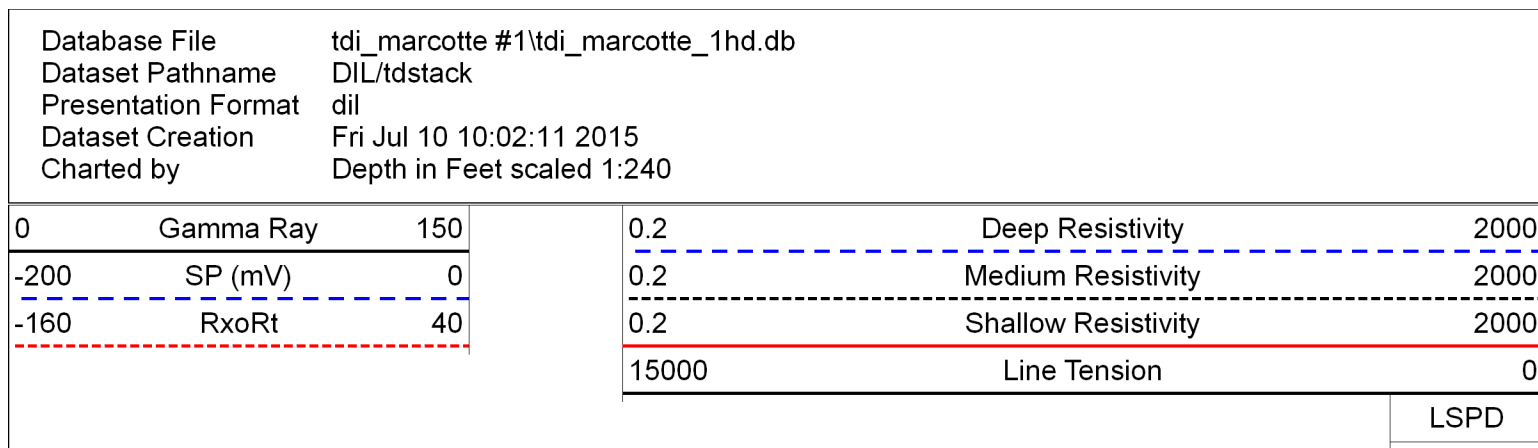
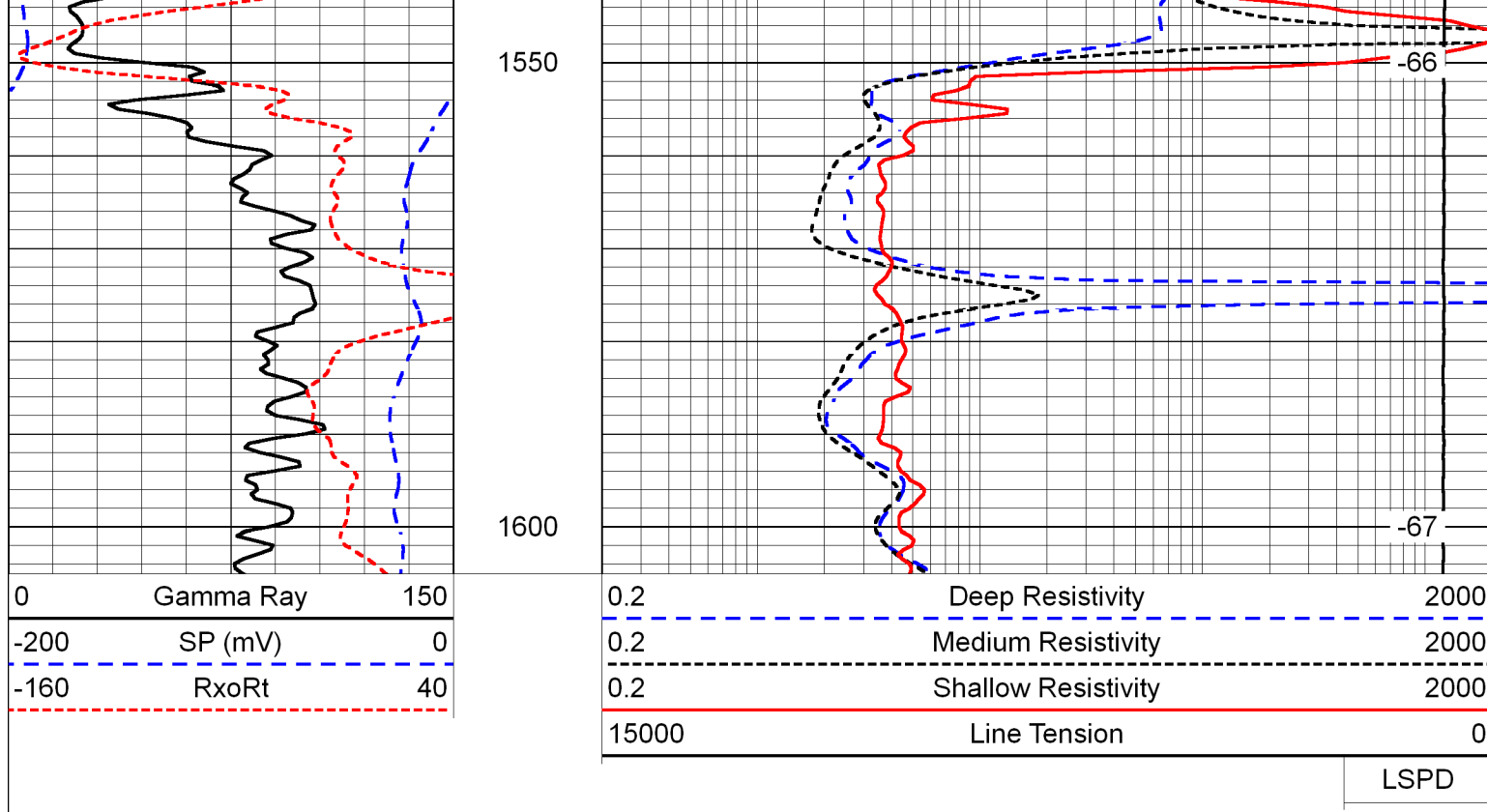
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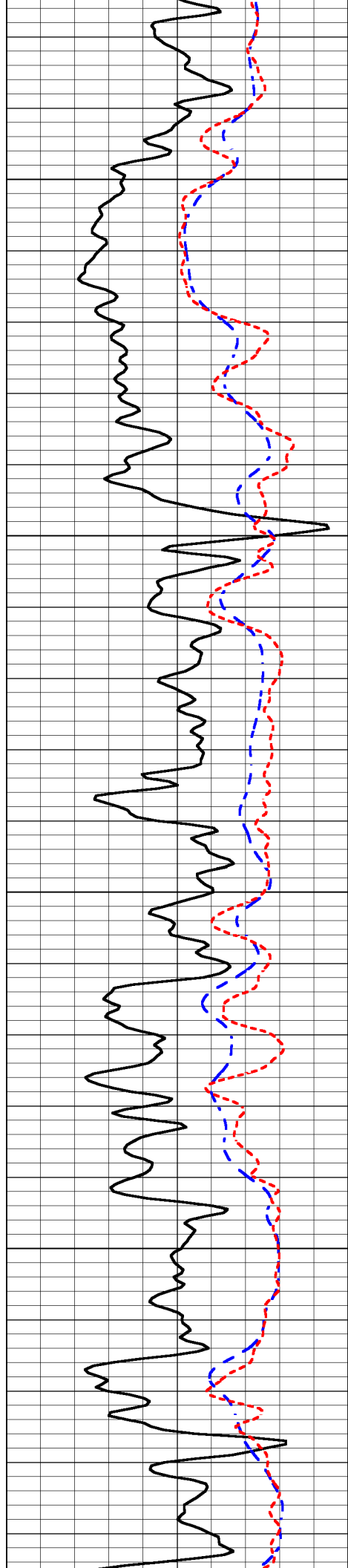










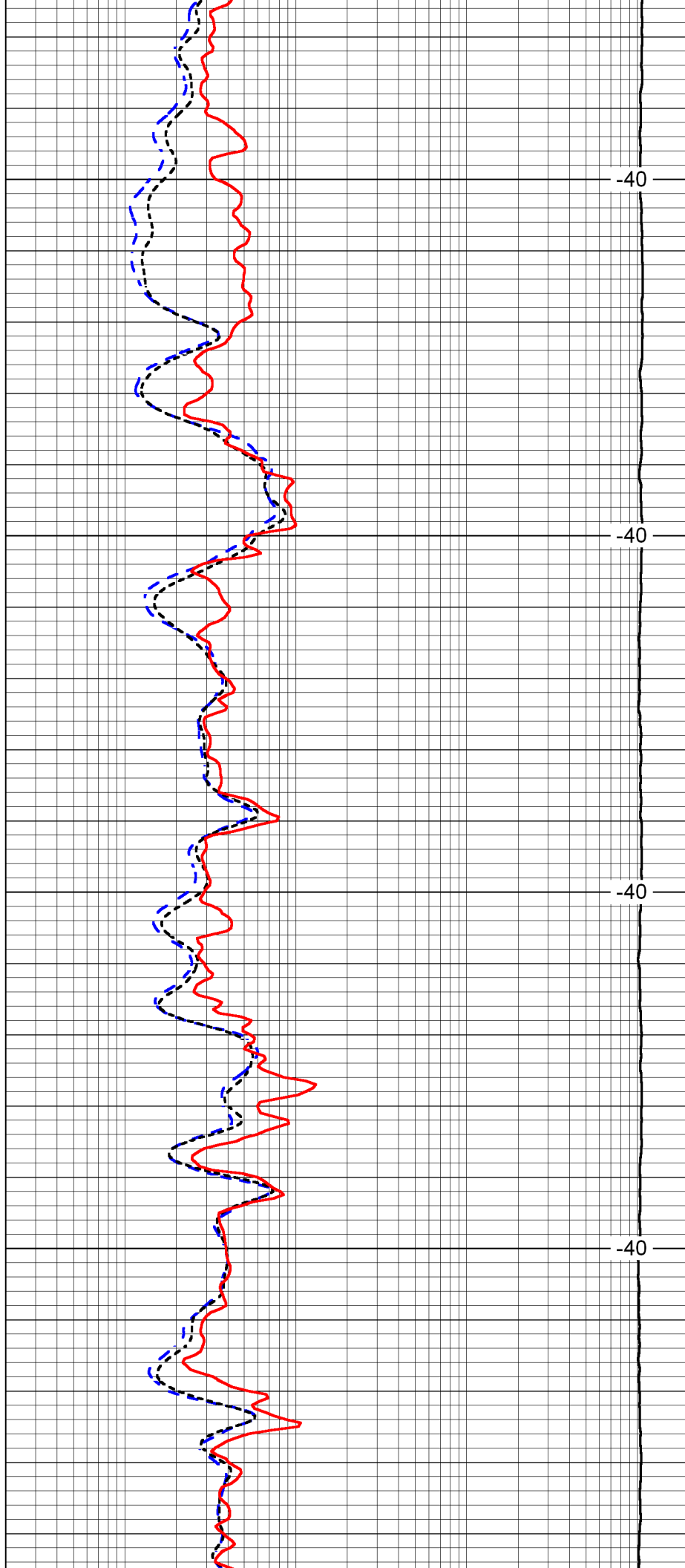


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2250

2300

2350

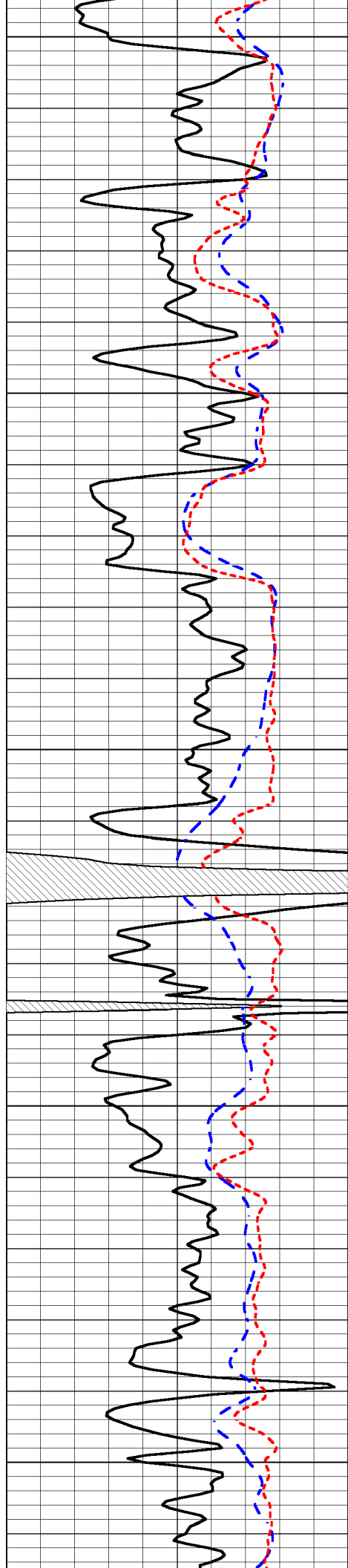


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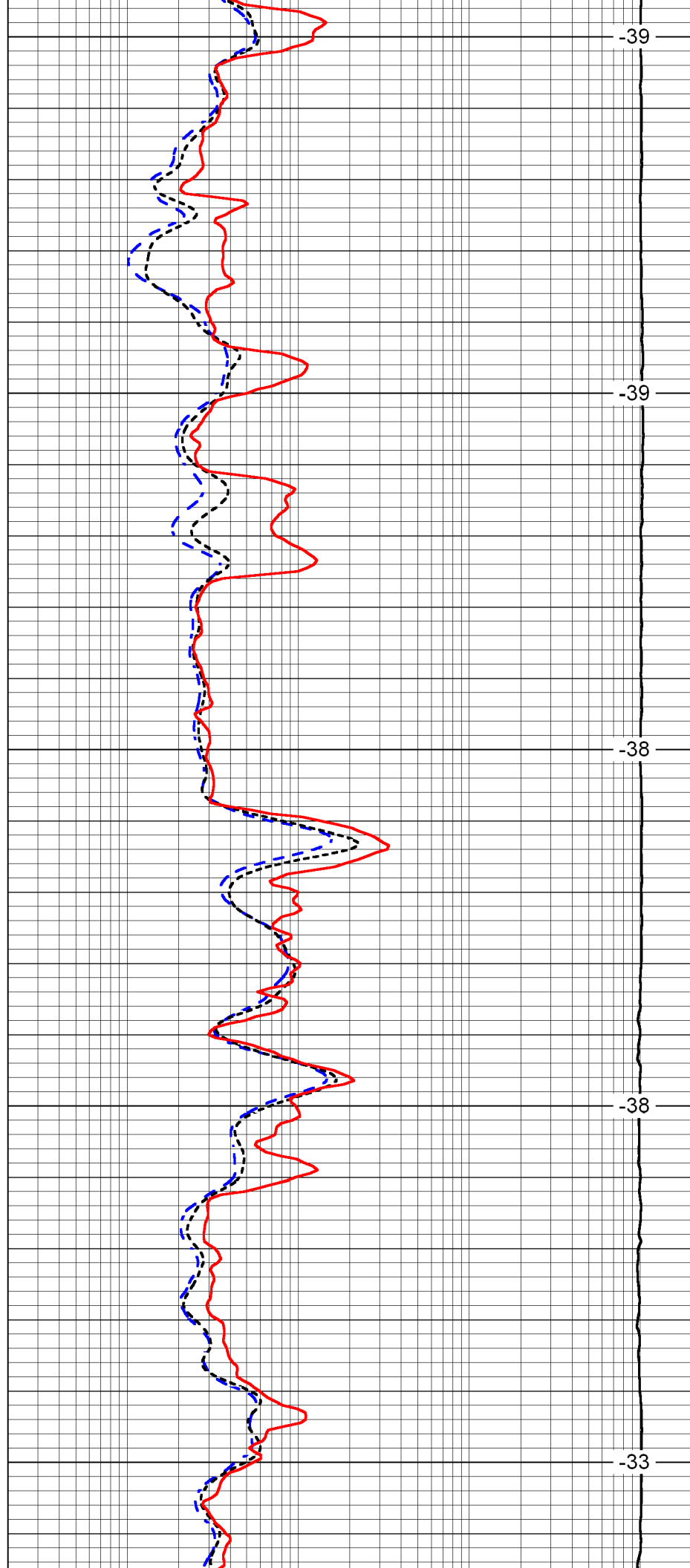
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2450

2500

2550

2600



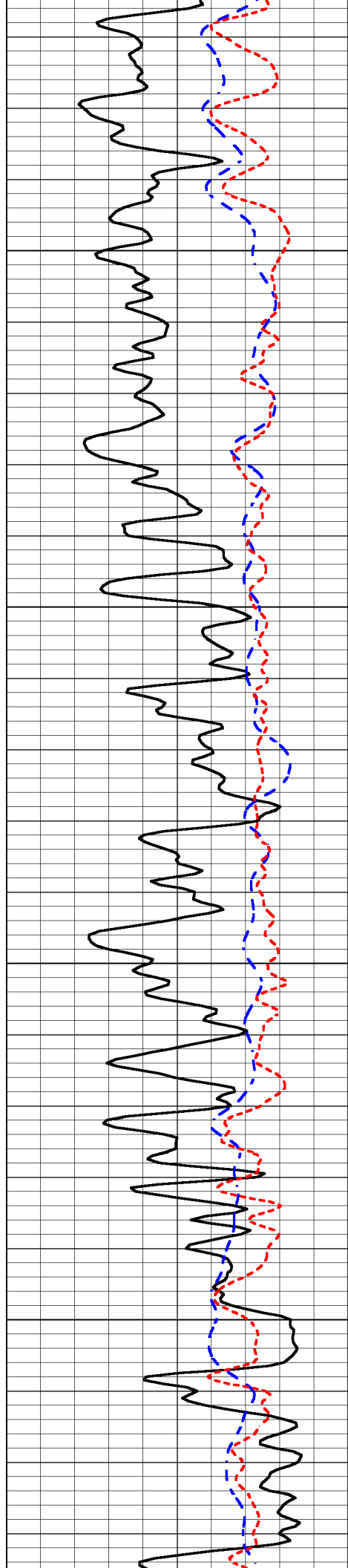
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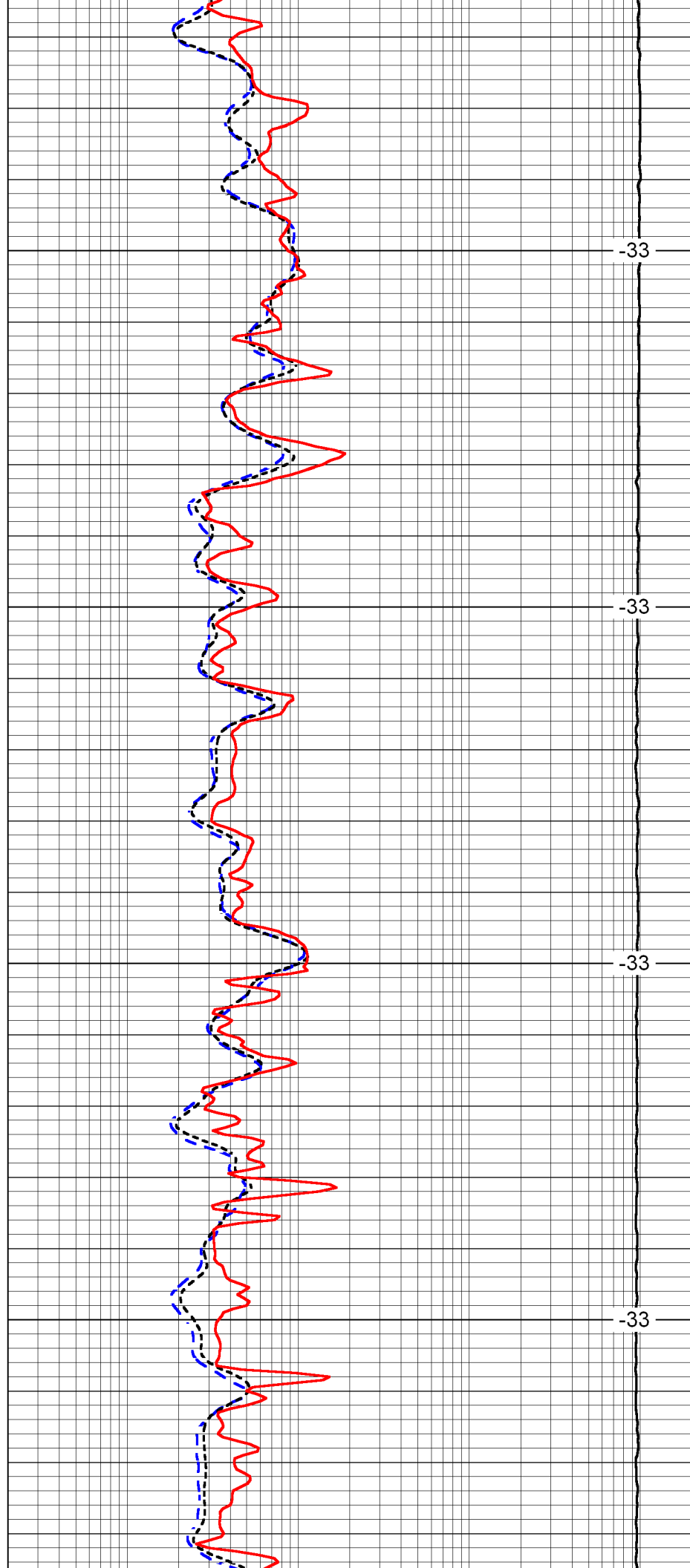


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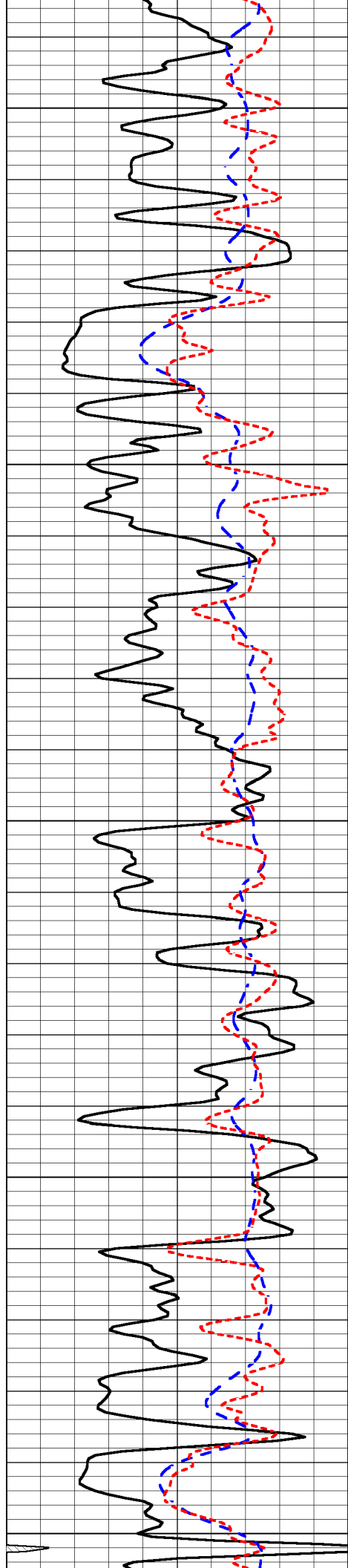


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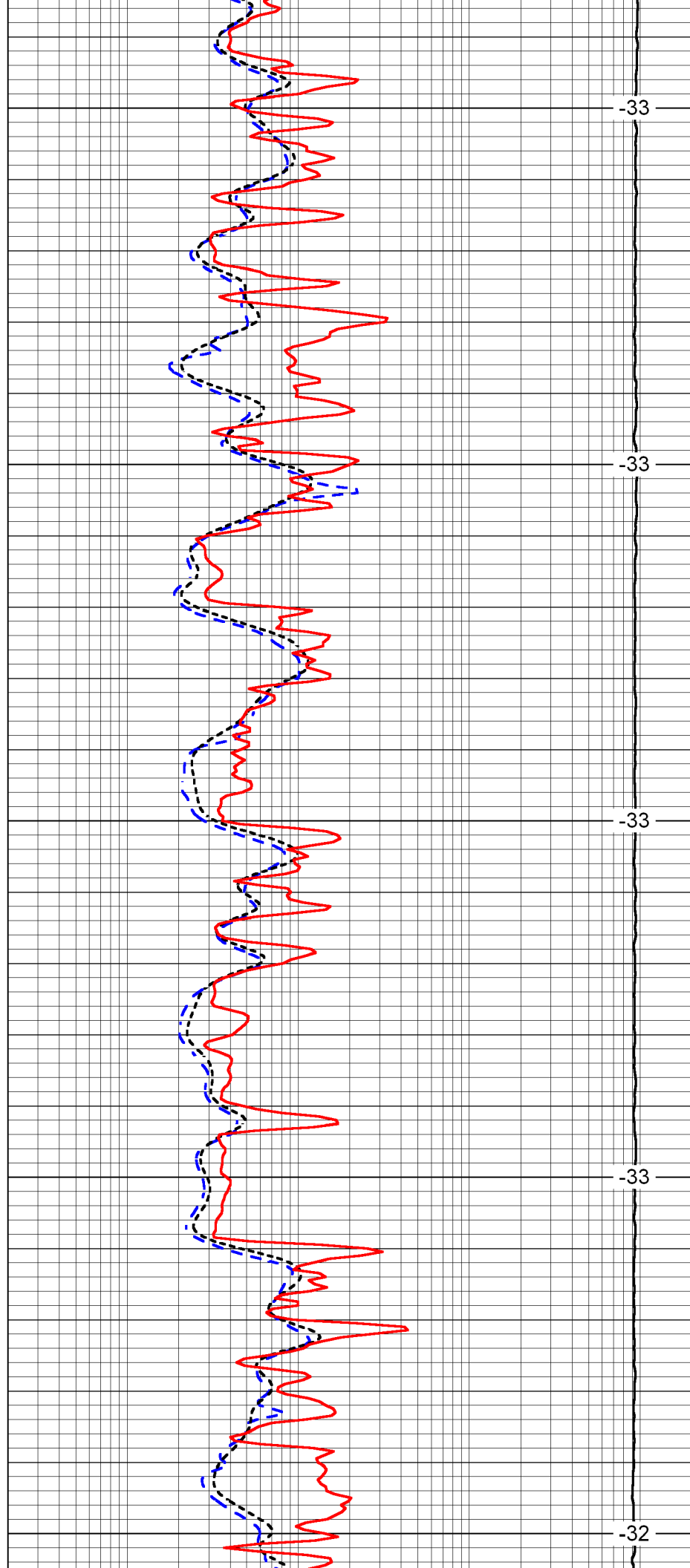
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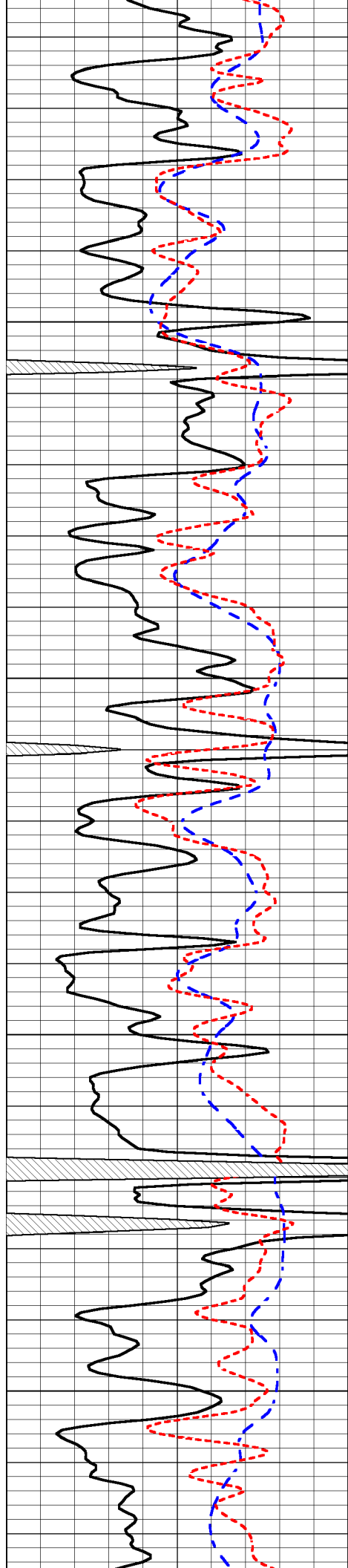
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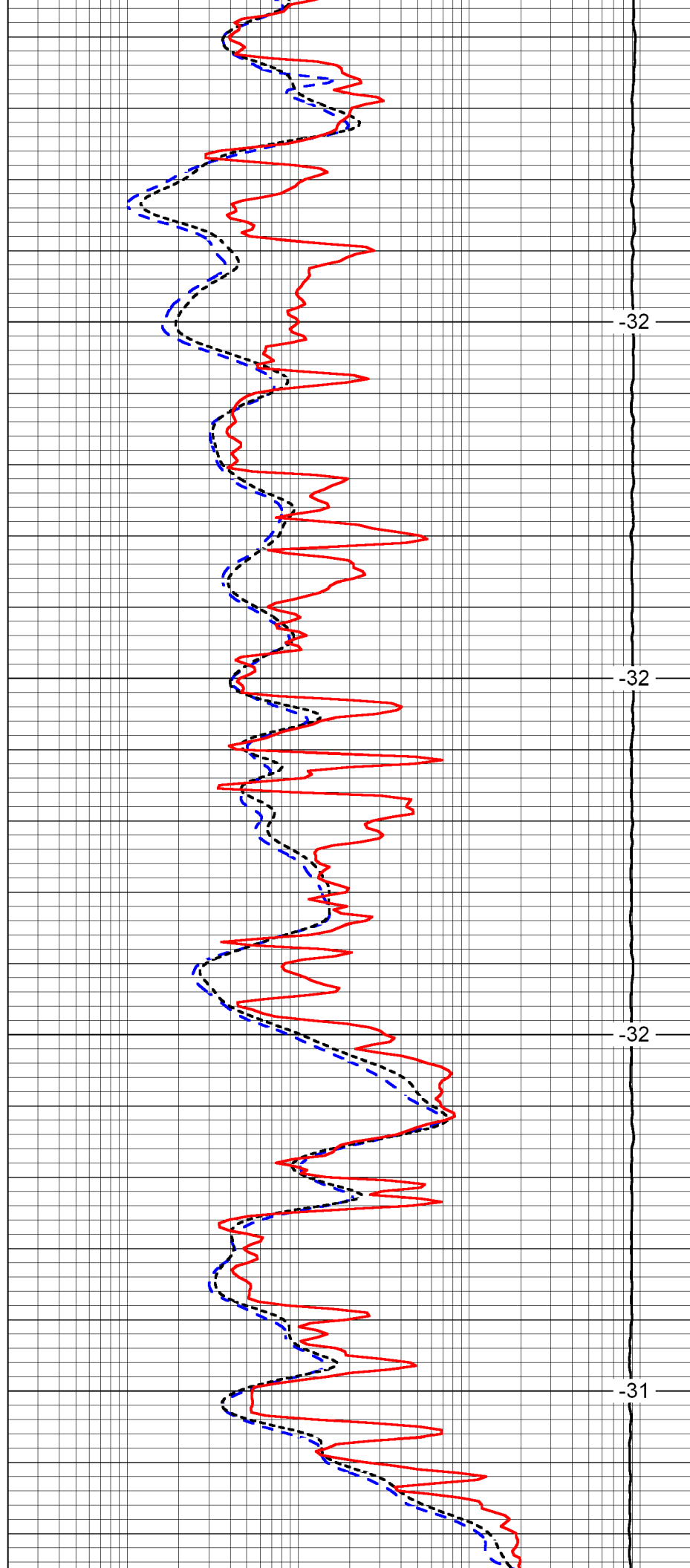


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3150

3200

3250

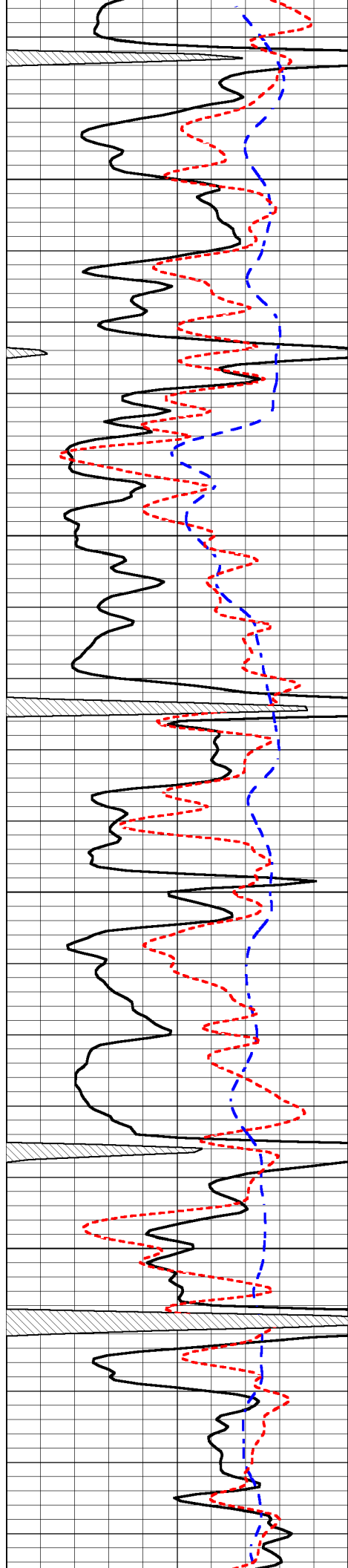


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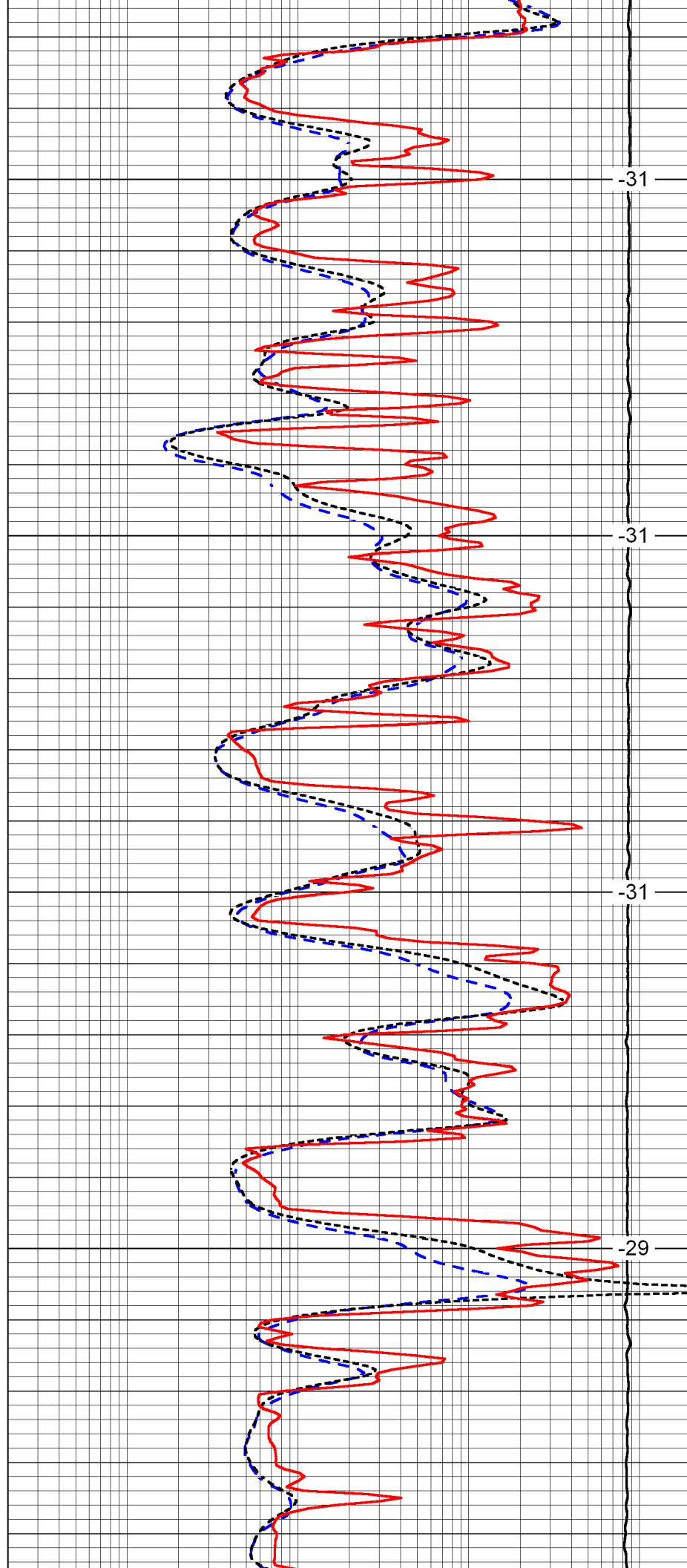


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3350

3400

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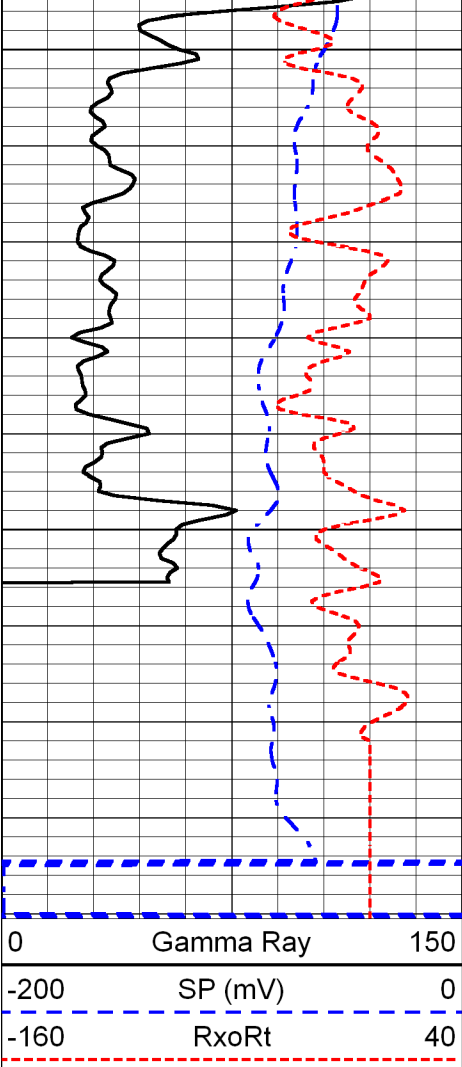


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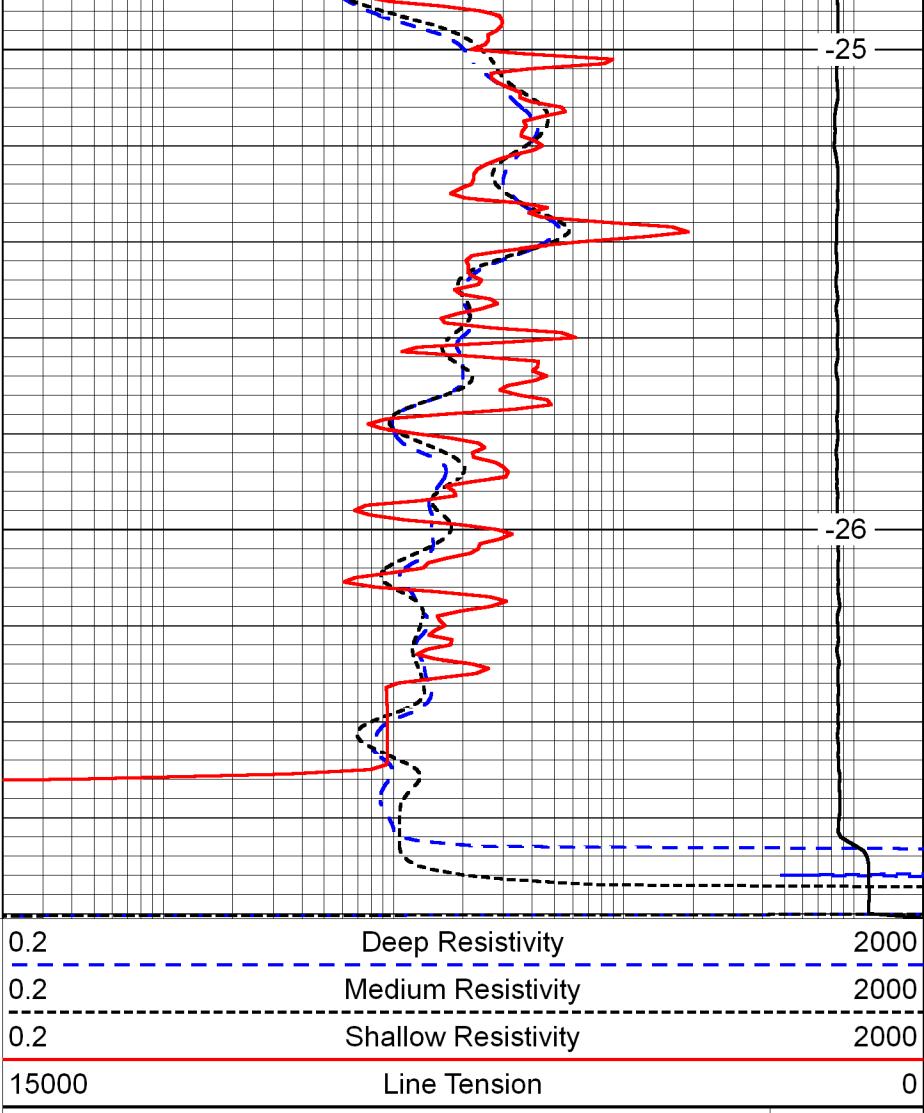
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-29



3500

3550



-25

-26

LSPD