



Pioneer Energy Services

Dual Induction Log

API No.	15-009-25743-00-00		
Company	RJM Company		
Well	Ervin Schneider #1		
Field	Hlavaty		
County	Barton	State	Kansas
Location	S/2 NE NW SE 2200' FSL / 1650' FEL		
Sec: 31	Twp: 17S	Rge: 14W	Other Services CNL/CDL MEL/BHCS
Permanent Datum	Ground Level	Elevation 1907	Elevation
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	K.B. 1912 D.F. 1907 G.L. 1907
Drilling Measured From	Kelly Bushing		
Date	9/3/2012		
Run Number	One		
Depth Driller	3609		
Depth Logger	3606		
Bottom Logged Interval	3605		
Top Log Interval	900		
Casing Driller	8.625 @ 920		
Casing Logger	912		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5000		
Density / Viscosity	9.5	51	
pH / Fluid Loss	8.5	10.8	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.12 @ 78		
Rmf @ Meas. Temp	0.09 @ 78		
Rmc @ Meas. Temp	0.16 @ 78		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.08 @ 112		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	112		
Equipment Number	17		
Location	Hays		
Recorded By	R. Barnhart		
Witnessed By	Chris Hoffman		

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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

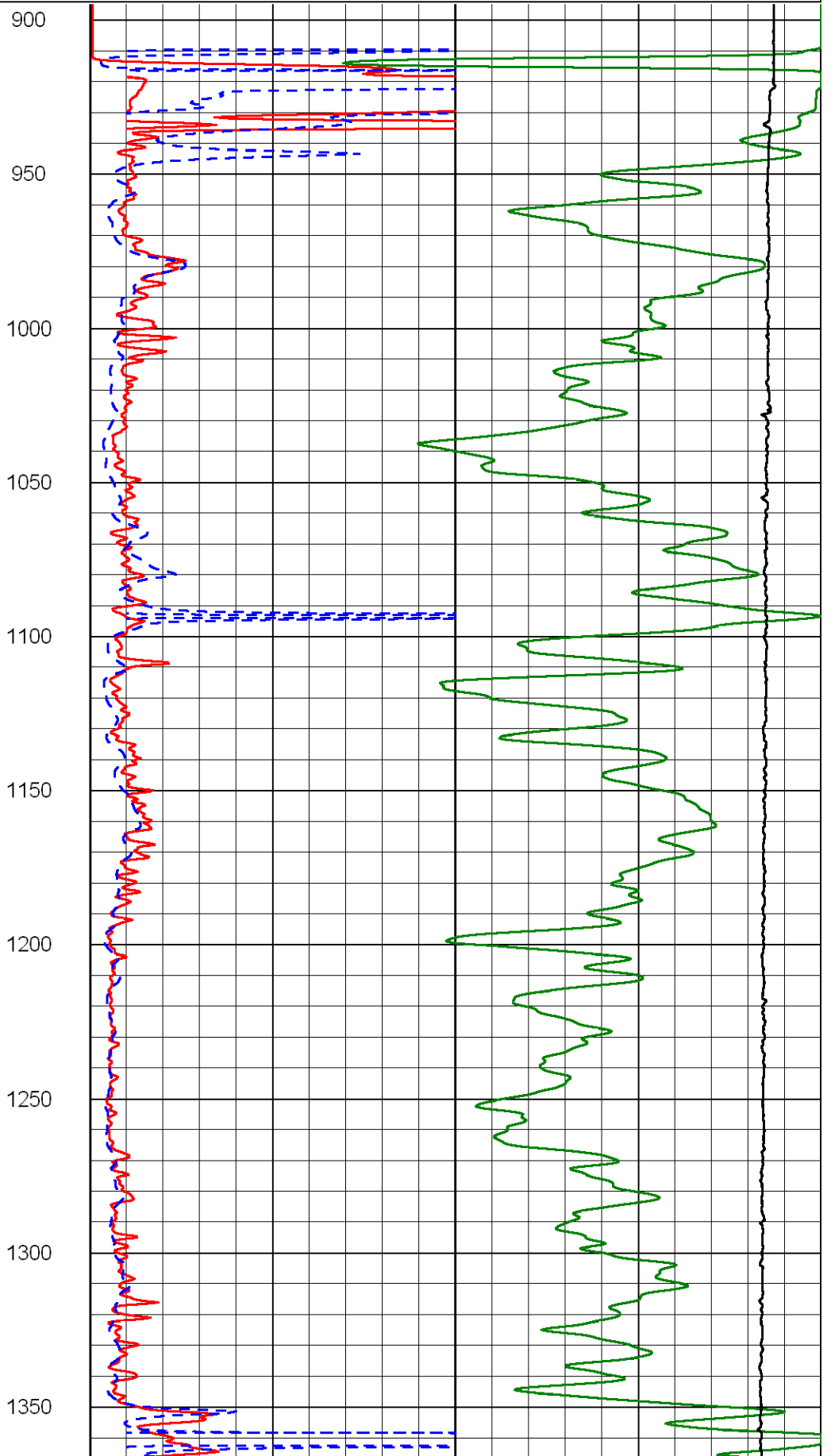
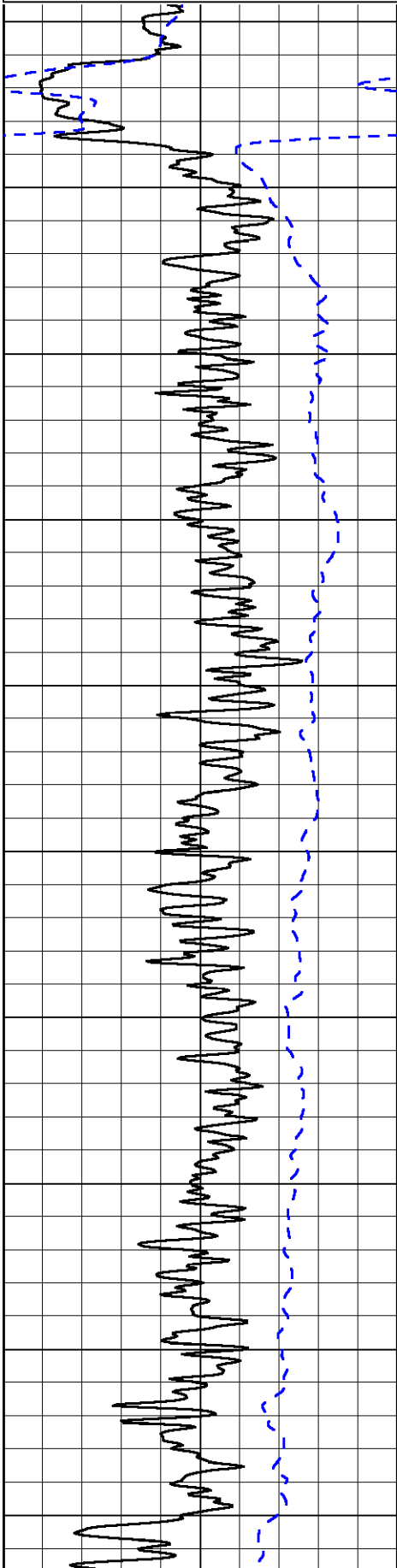
Olmitz, KS:
Hwy 4: E to 70 Rd., 1S, 1/2W, N into

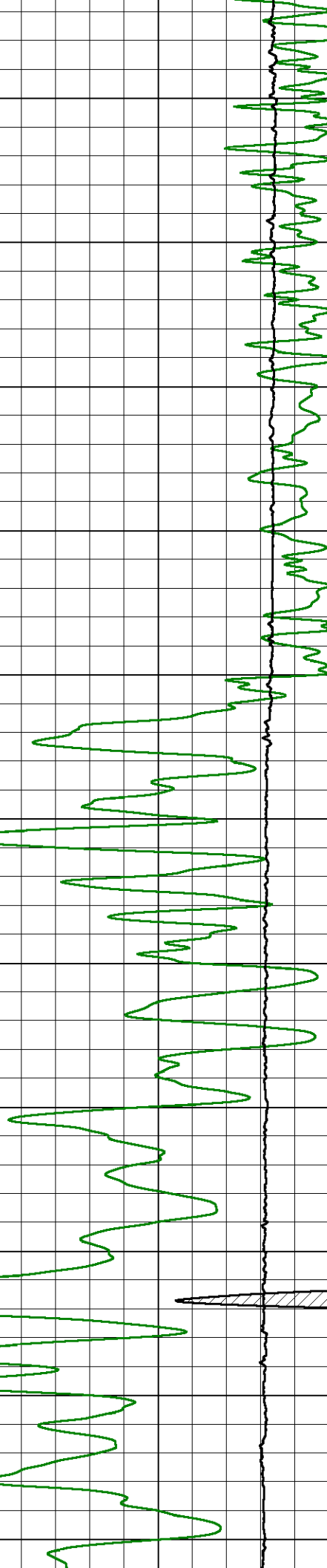
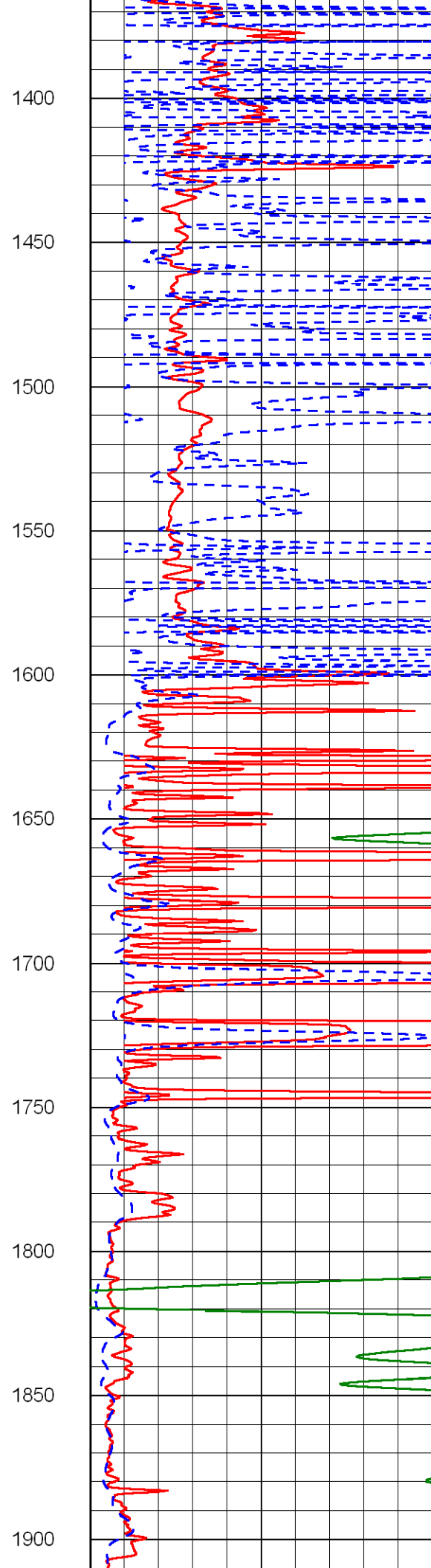
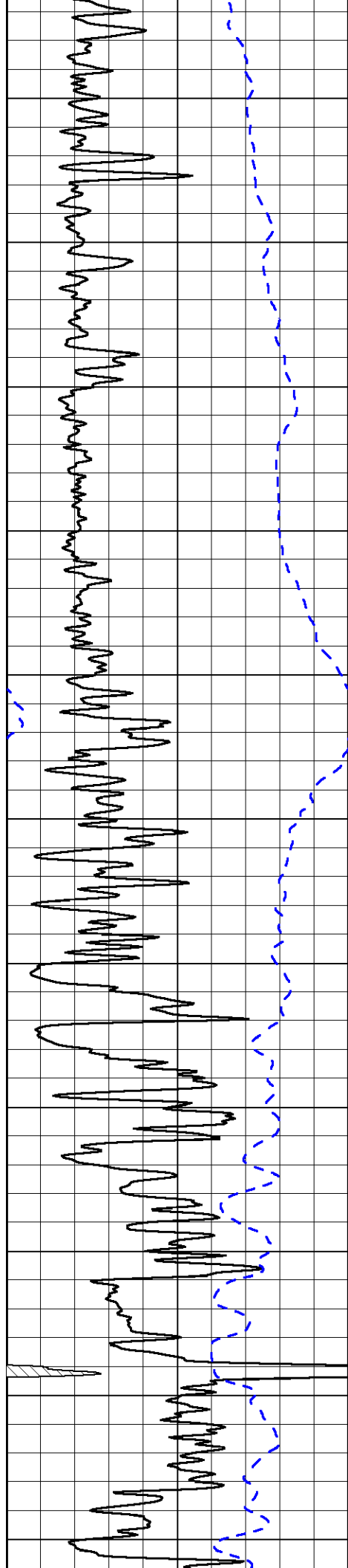
Database File: rjm_hd.db
Dataset Pathname: dil/rjmmain
Presentation Format: dil2in
Dataset Creation: Mon Sep 03 01:00:51 2012
Charted by: Depth in Feet scaled 1:600

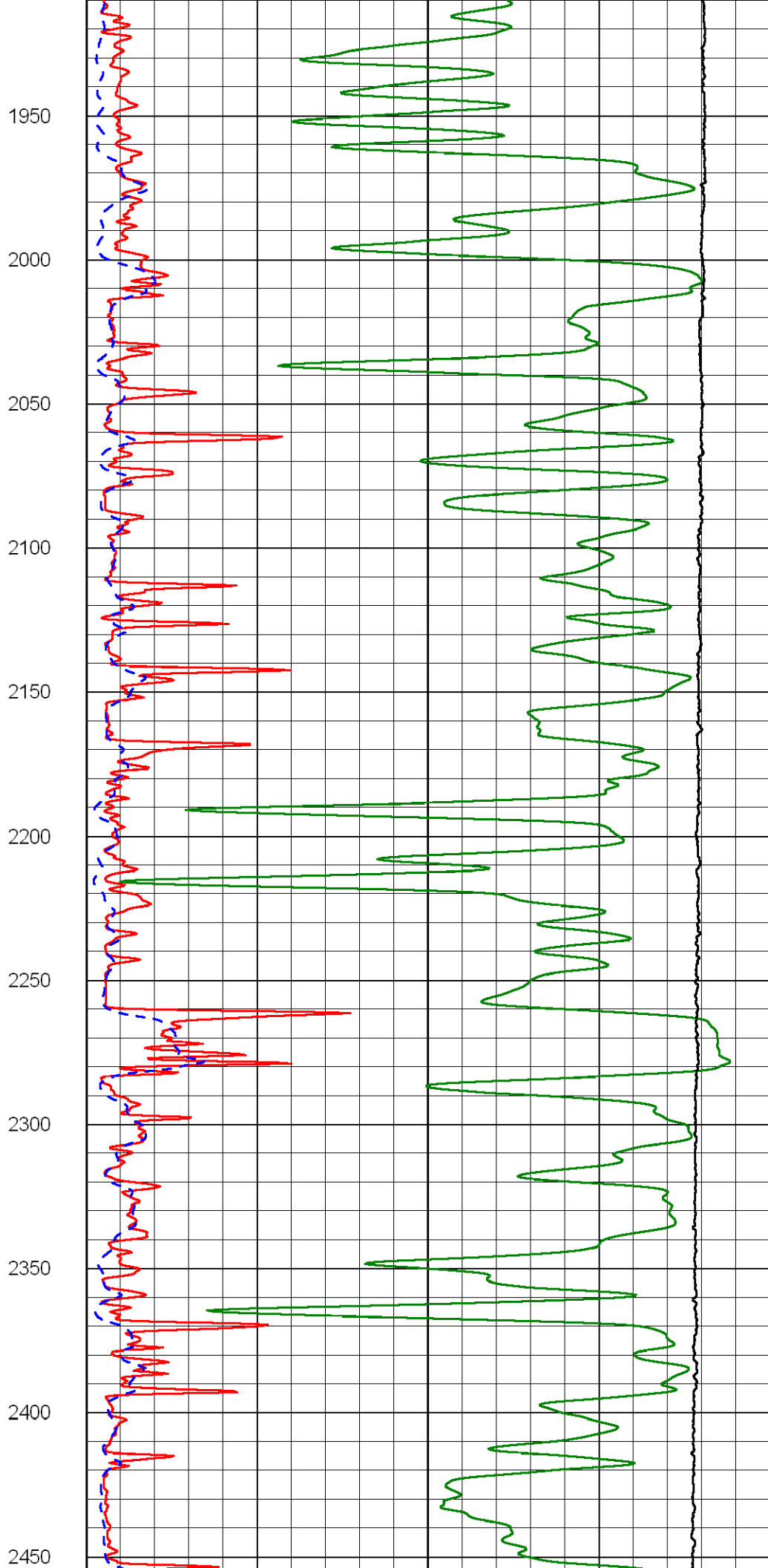
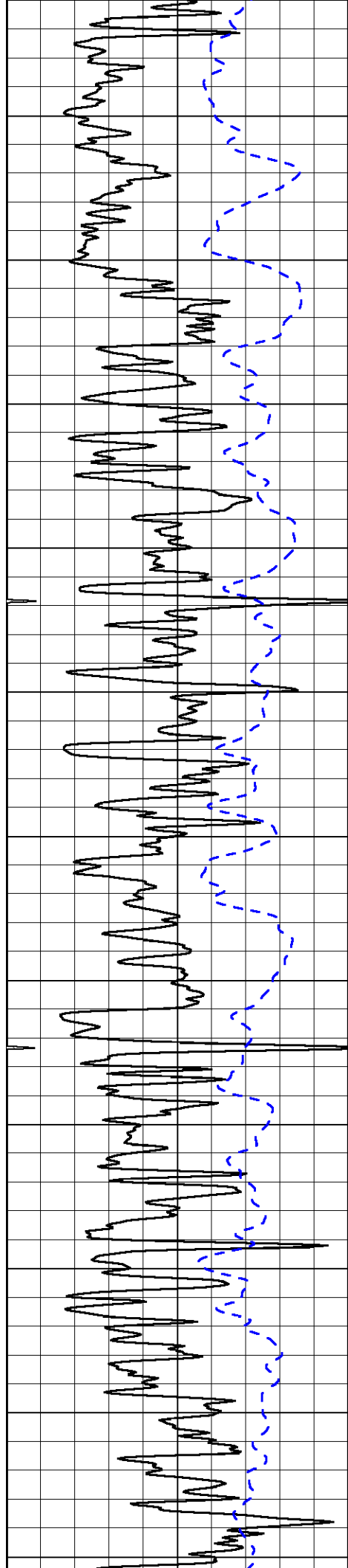
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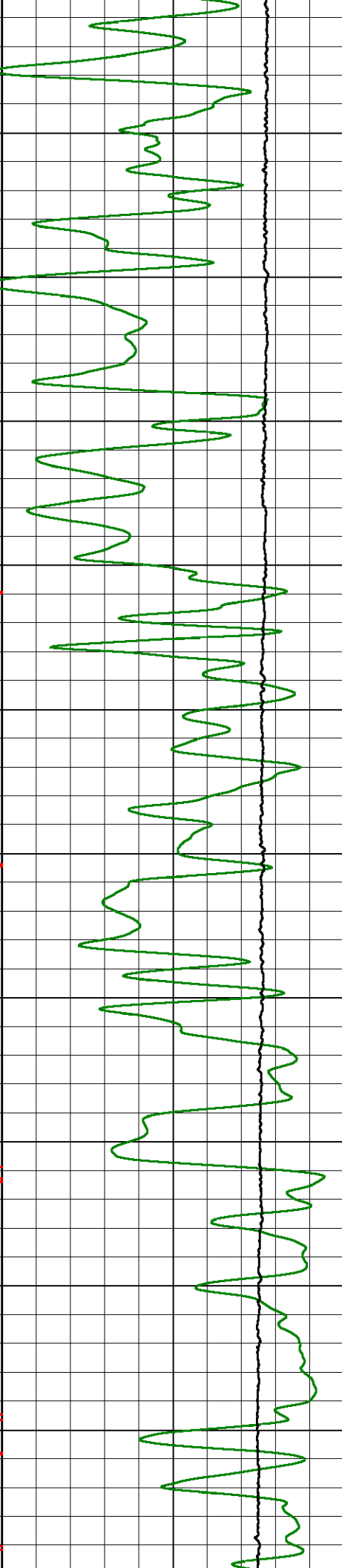
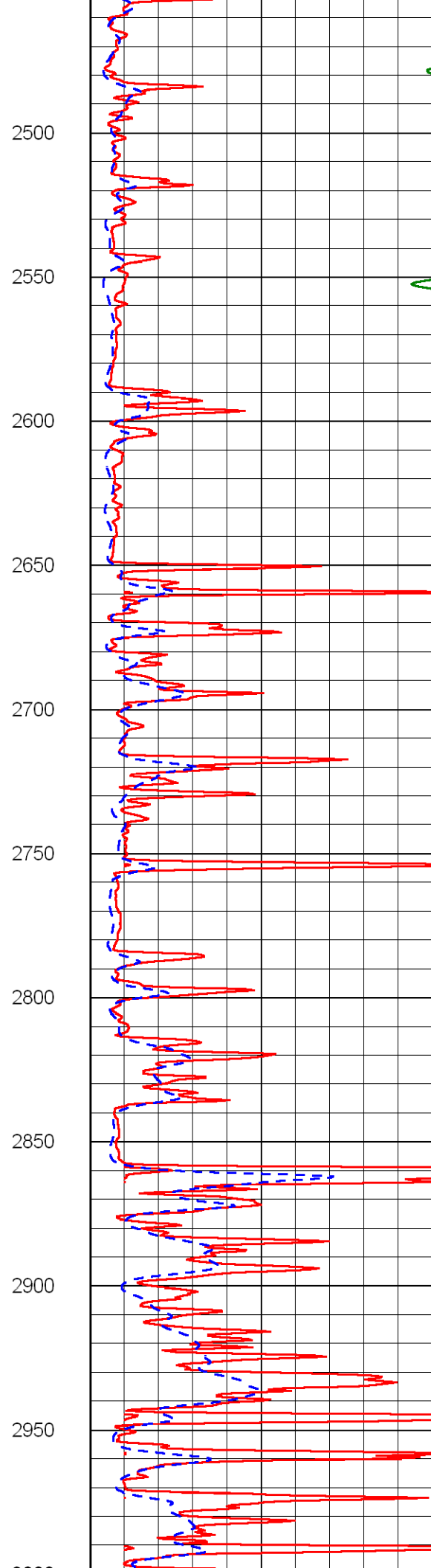
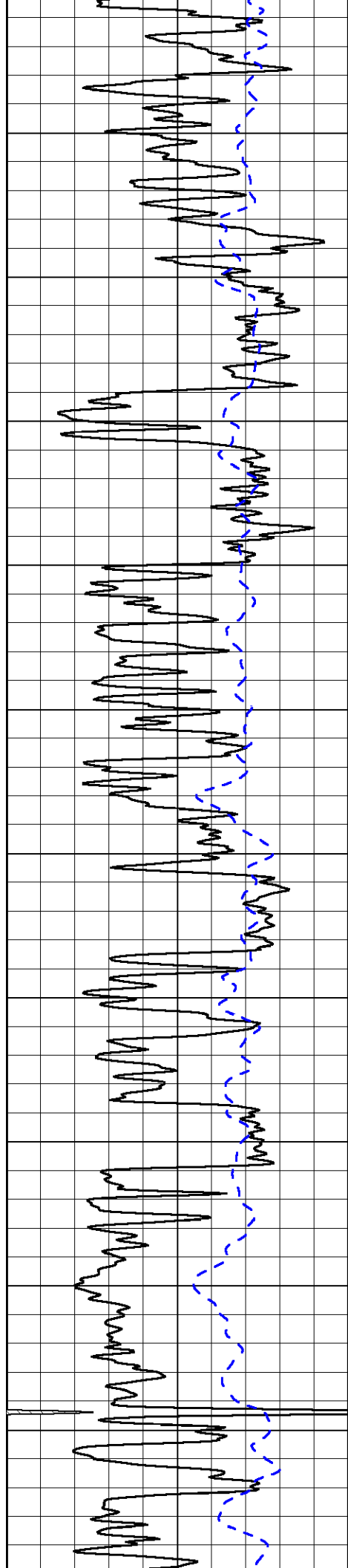
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

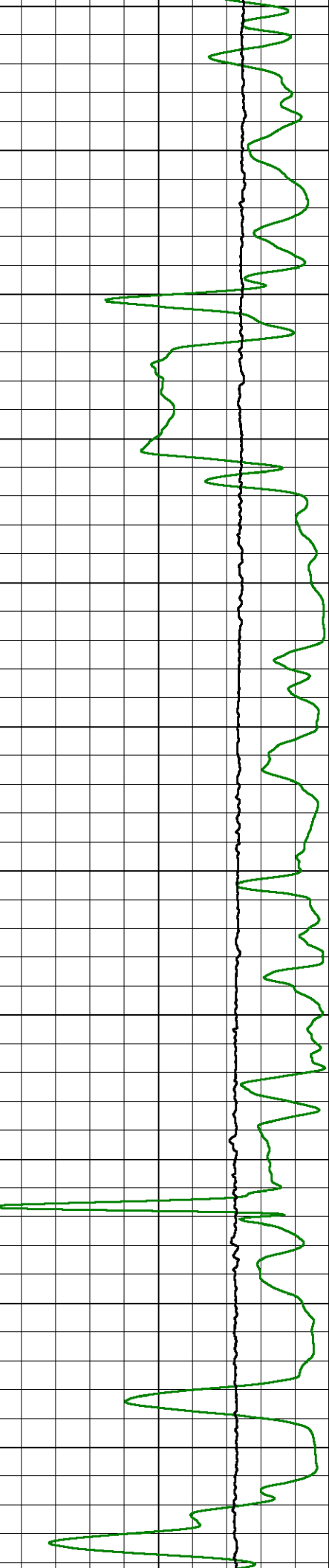
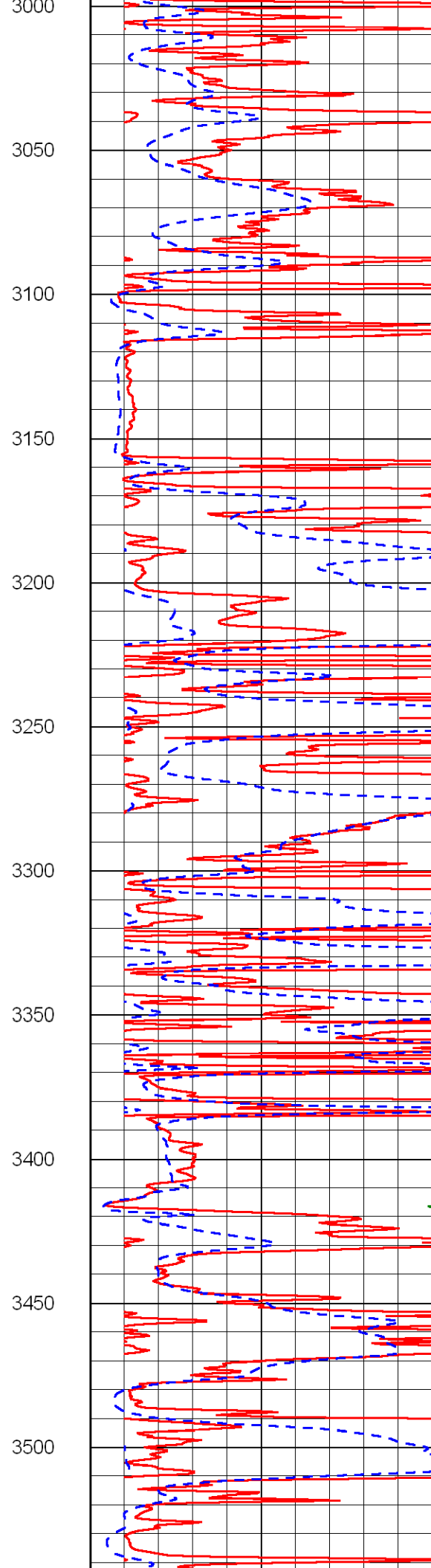
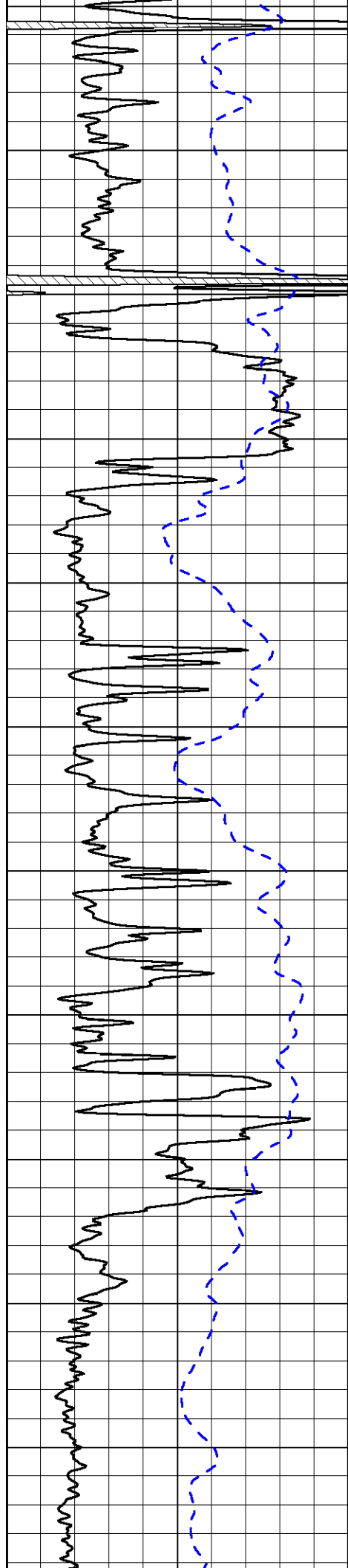
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50	Deep Resistivity	500

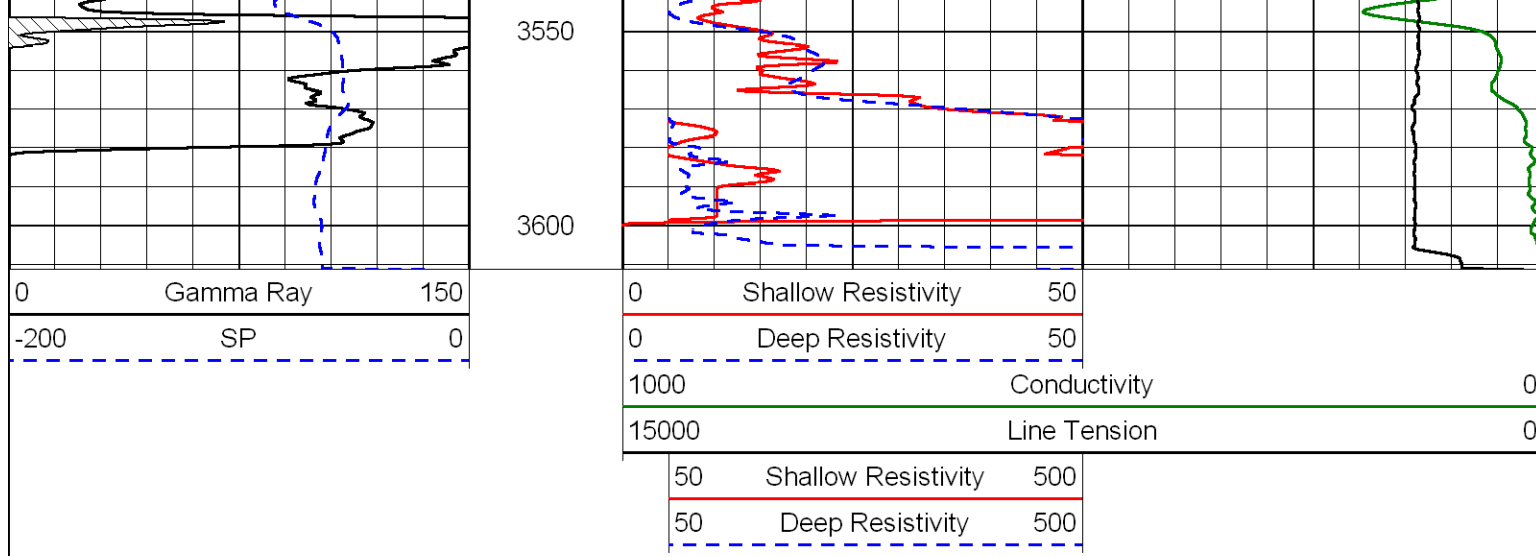




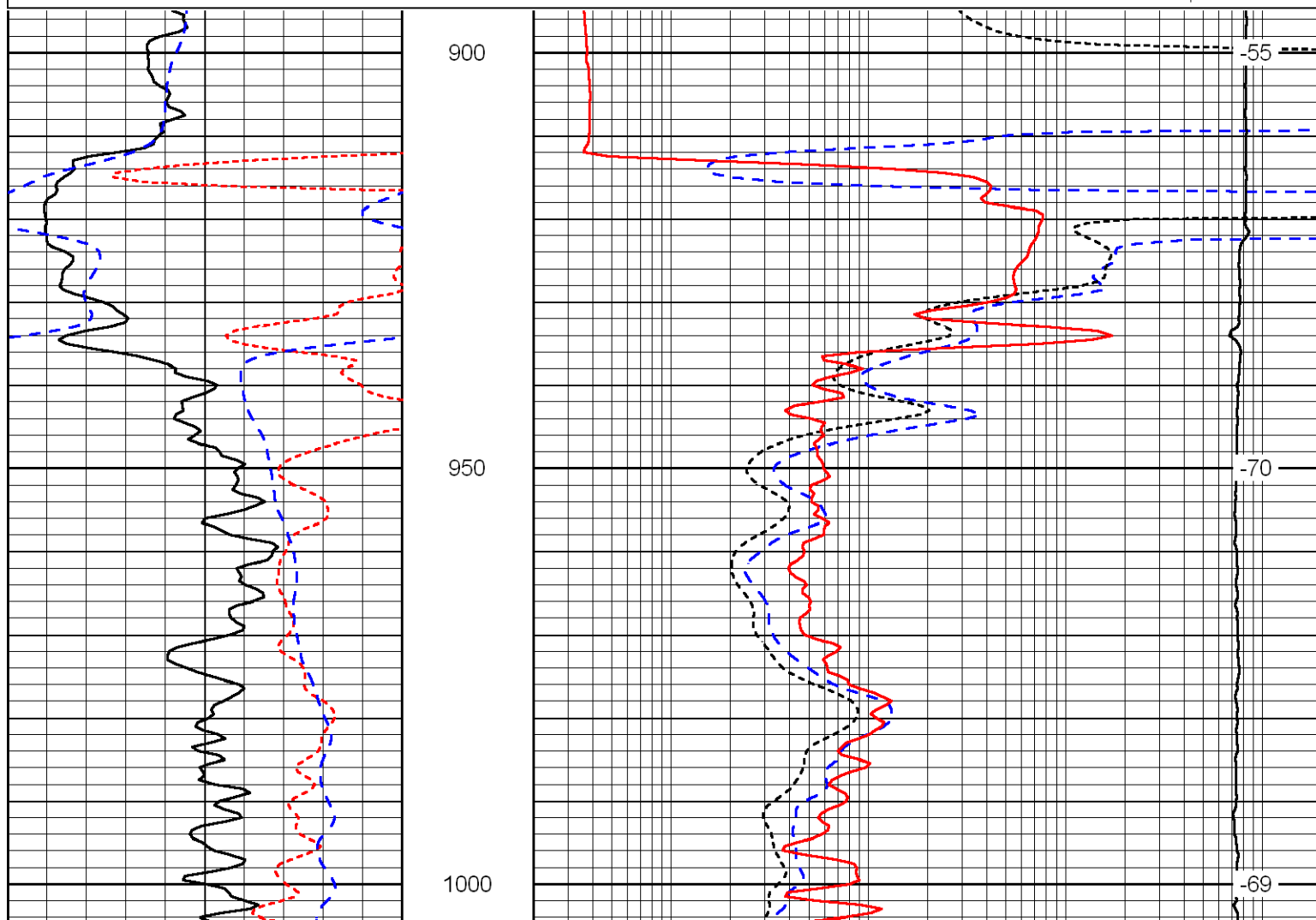
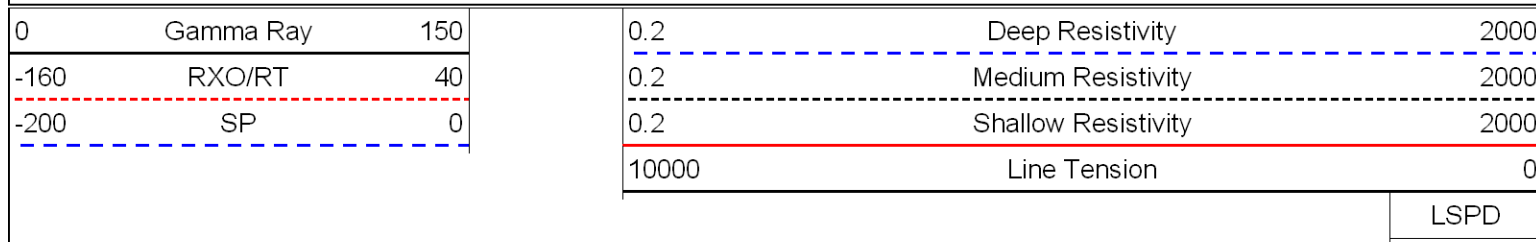








Database File: rjm_hd.db
 Dataset Pathname: dil/rjmmain
 Presentation Format: dil
 Dataset Creation: Mon Sep 03 01:00:51 2012
 Charted by: Depth in Feet scaled 1:240



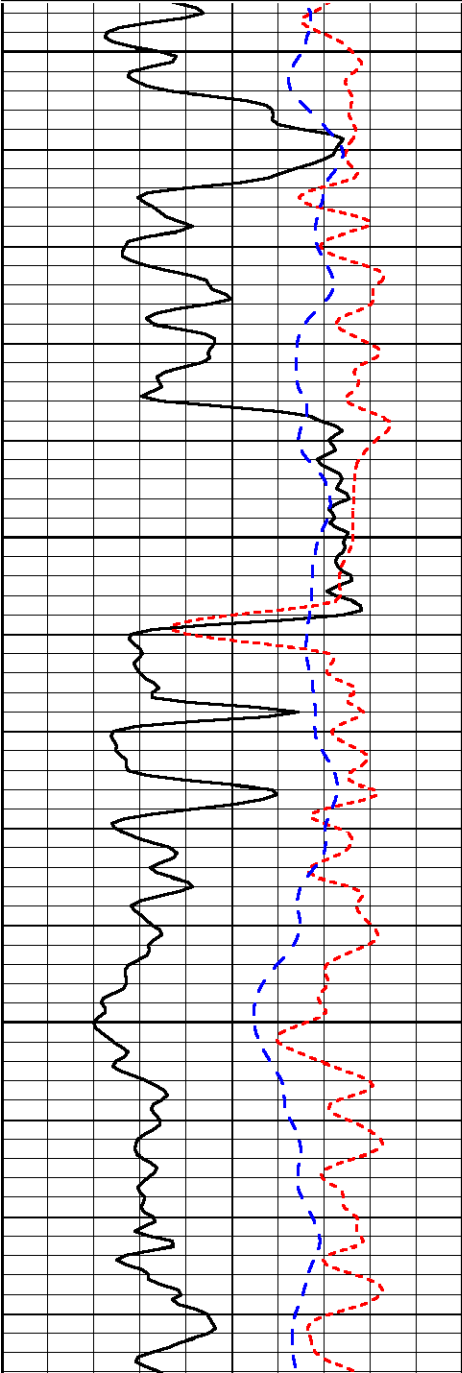
0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

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

Database File:	rjm_hd.db
Dataset Pathname:	dil/rjmmain
Presentation Format:	dil
Dataset Creation:	Mon Sep 03 01:00:51 2012
Charted by:	Depth in Feet scaled 1:240

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-160	RXO/RT	40
-200	SP	0

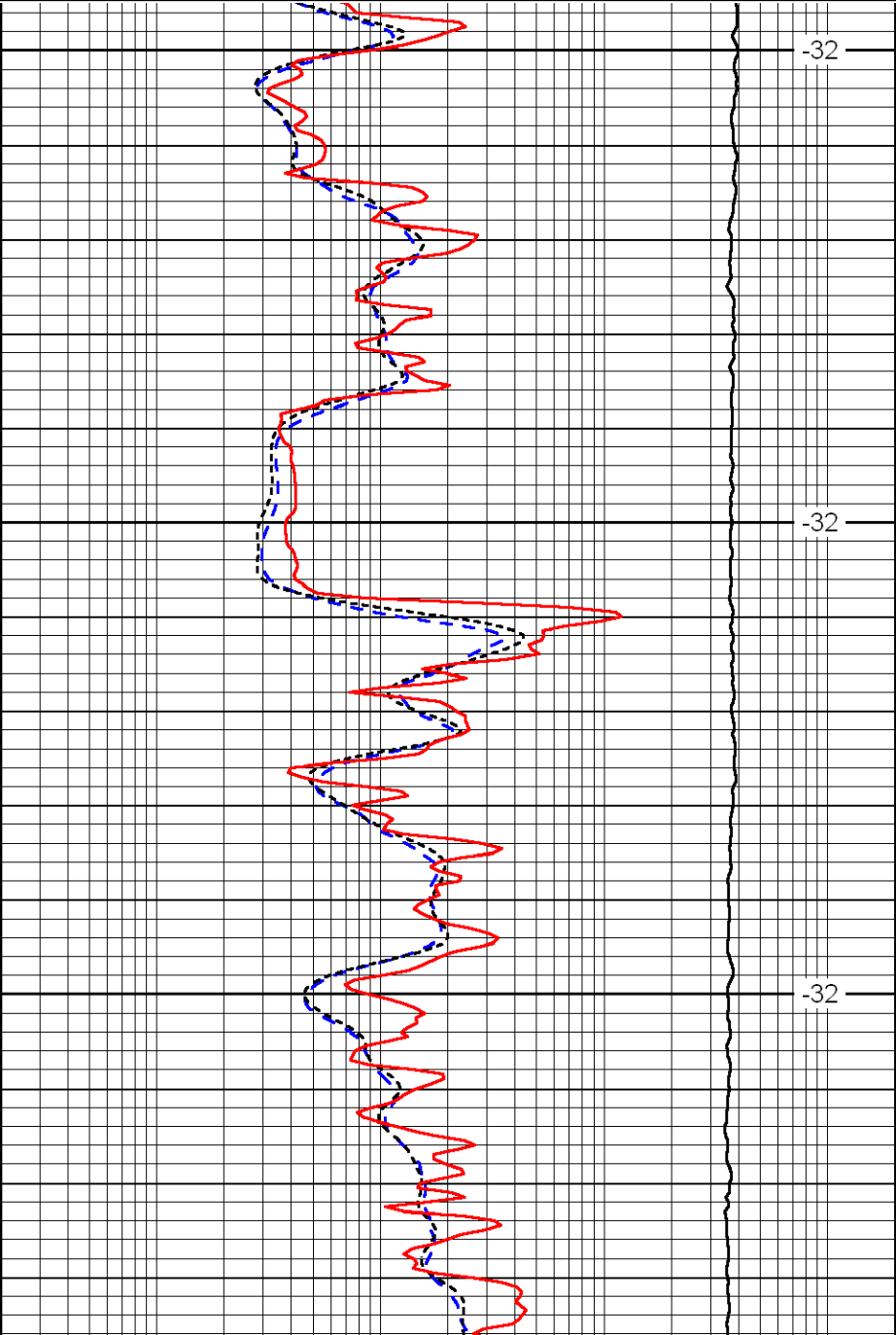
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0
		LSPD



2800

2850

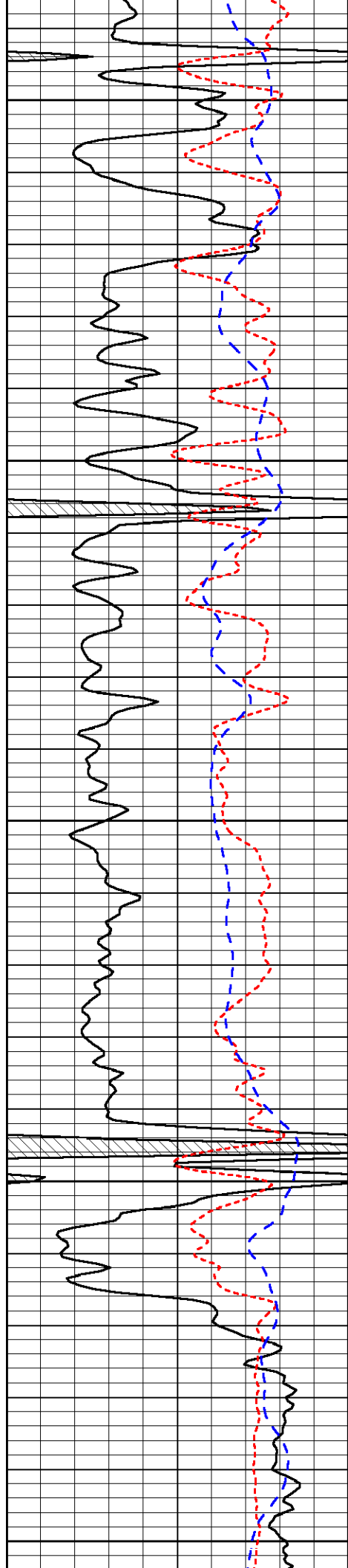
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-32

-32

-32



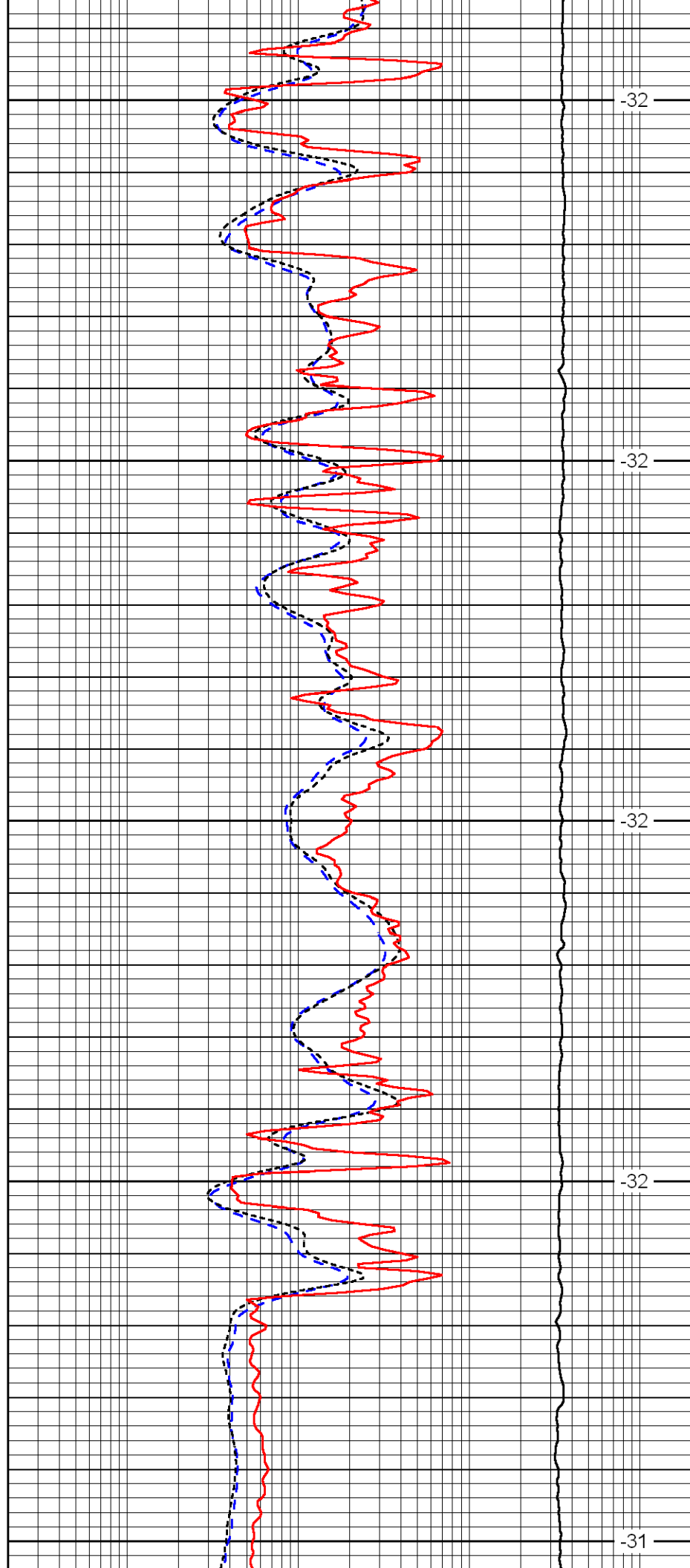
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3000

3050

3100

3150



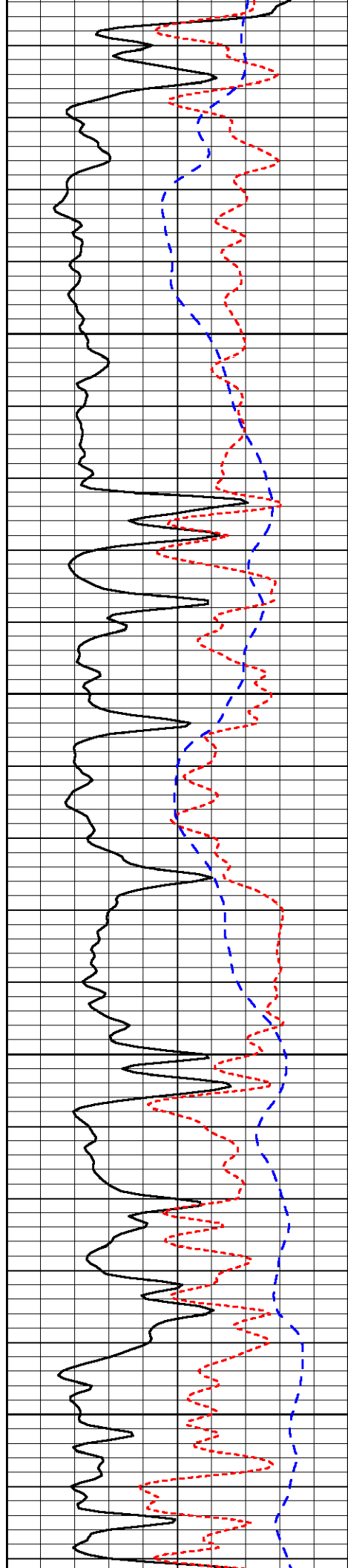
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-32

-32

-32

-31

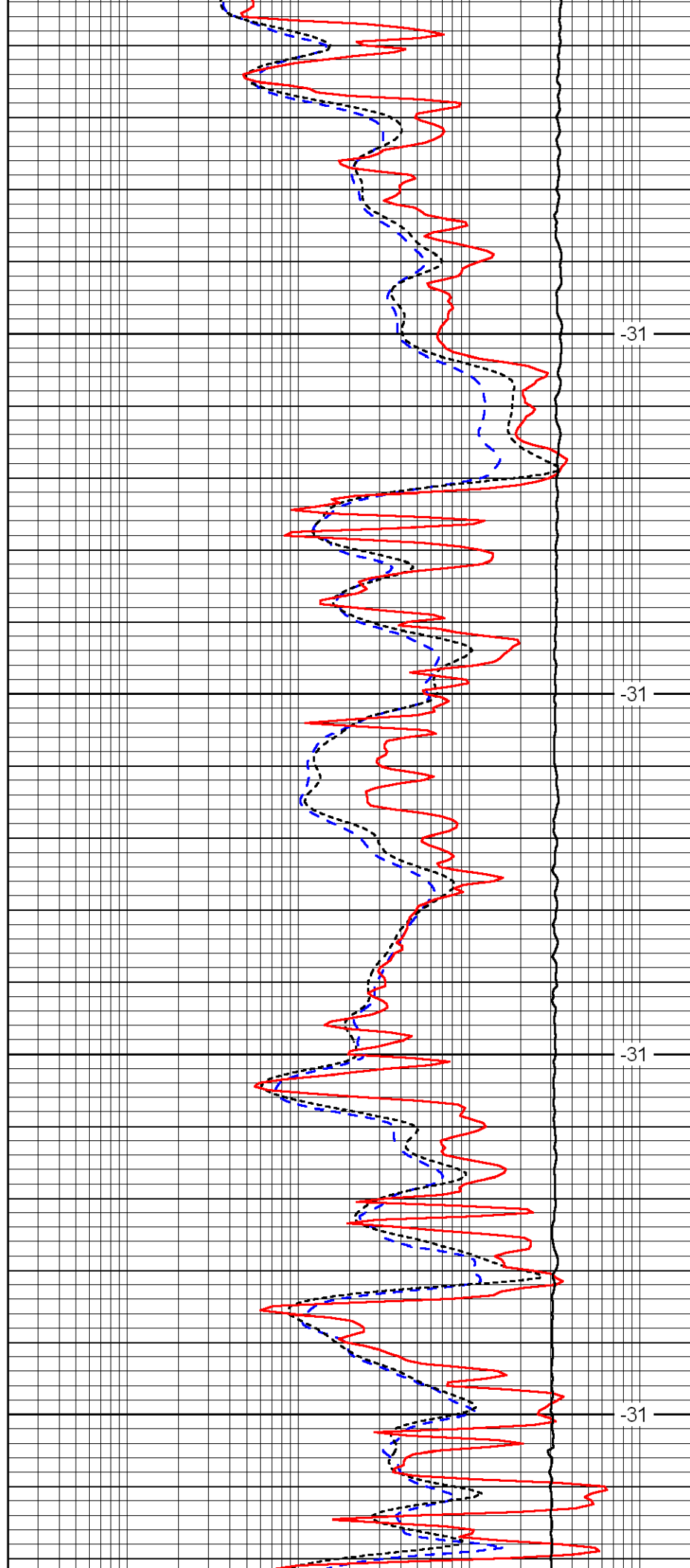


3200

3250

3300

3350

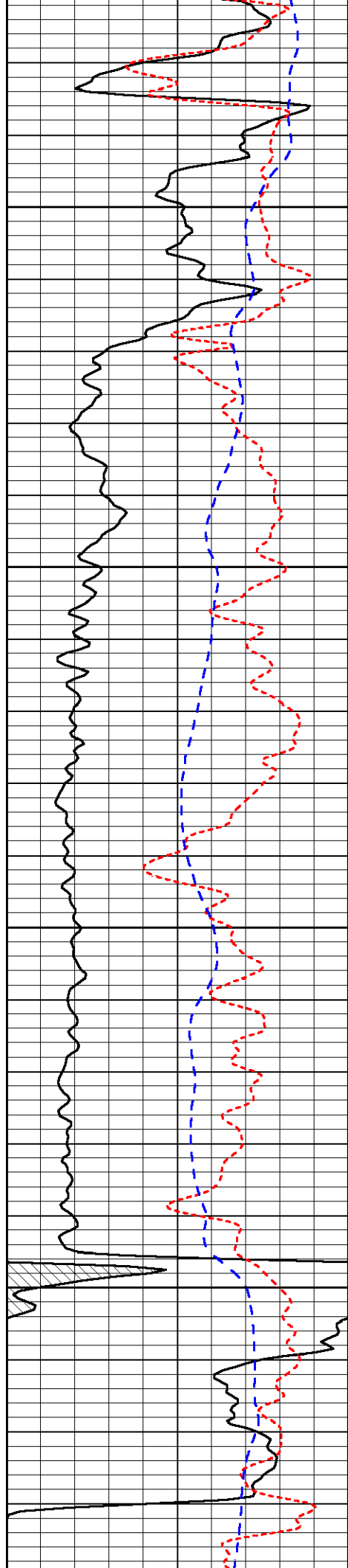


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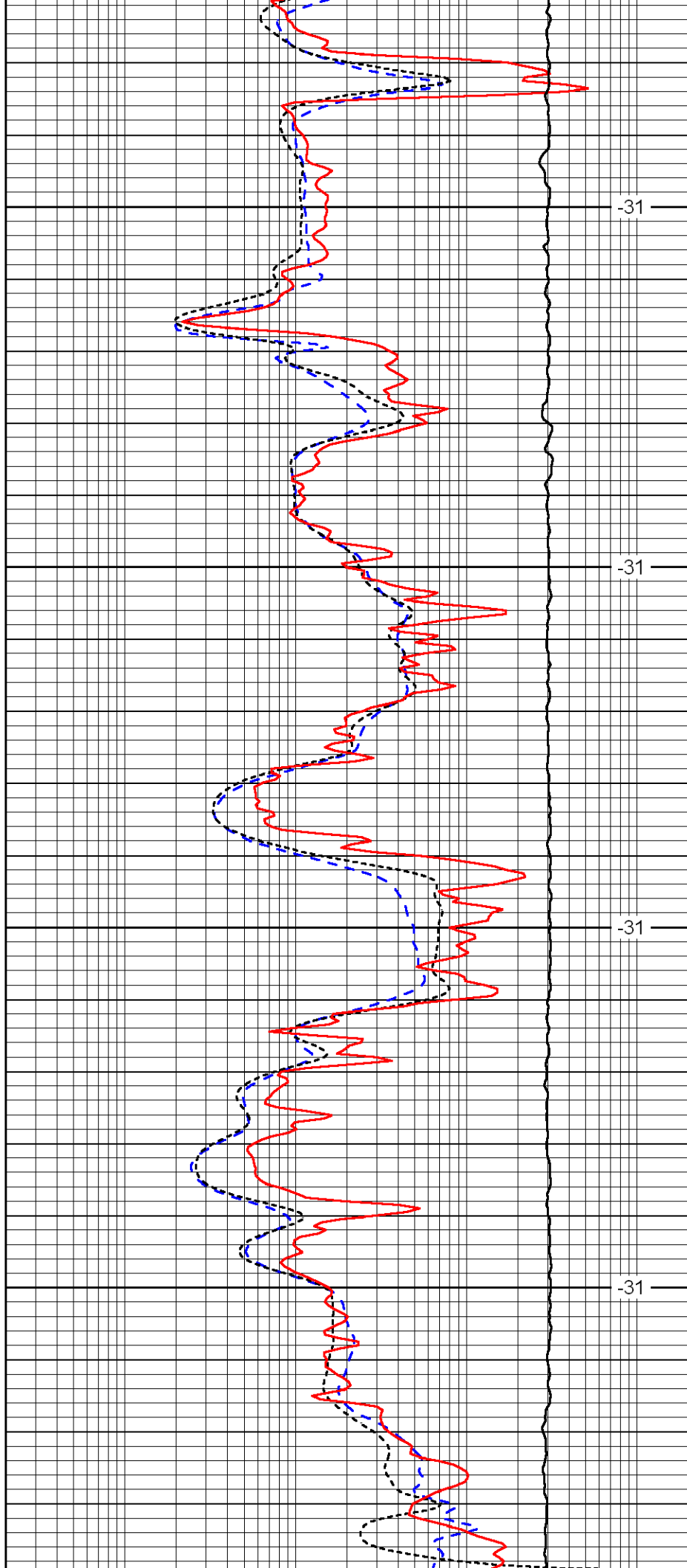


3400

3450

3500

3550

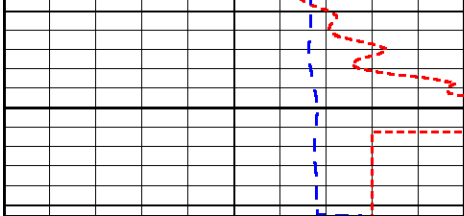


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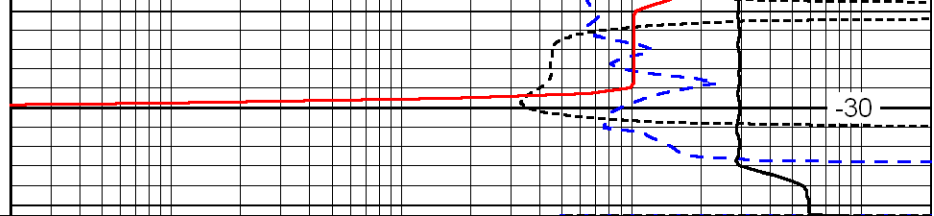
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-31



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

3600



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

LSPD