



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.	15-135-25486-00-00			
Company	Trans Pacific Oil Corporation			
Well	Schaben 'A' Unit #1-12			
Field	Schaben			
County	Ness	State	Kansas	
Location	1178' FSL & 1965' FWL			Other Services CNL/CDL
Sec: 12	Twp: 20S	Rge: 22W	Elevation	
Permanent Datum	Ground Level	Elevation 2238	K.B. 2247	
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum	D.F. 2238	
Drilling Measured From	Kelly Bushing		G.L. 2238	
Date	10/10/2012			
Run Number	One			
Depth Driller	4392			
Depth Logger	4393			
Bottom Logged Interval	4392			
Top Log Interval	200			
Casing Driller	8.625 @ 220			
Casing Logger	213			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity, ppm CL	6700			
Density / Viscosity	9.4	47		
pH / Fluid Loss	10.0	12.0		
Source of Sample	Flowline			
Rm @ Meas. Temp	0.55 @ 58			
Rmf @ Meas. Temp	0.41 @ 58			
Rmc @ Meas. Temp	0.74 @ 58			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.26 @ 122			
Operating Rig Time	3 Hours			
Max Rec. Temp. F	122			
Equipment Number	91			
Location	Hays			
Recorded By	D. Schmidt			
Witnessed By	Max Lovely			

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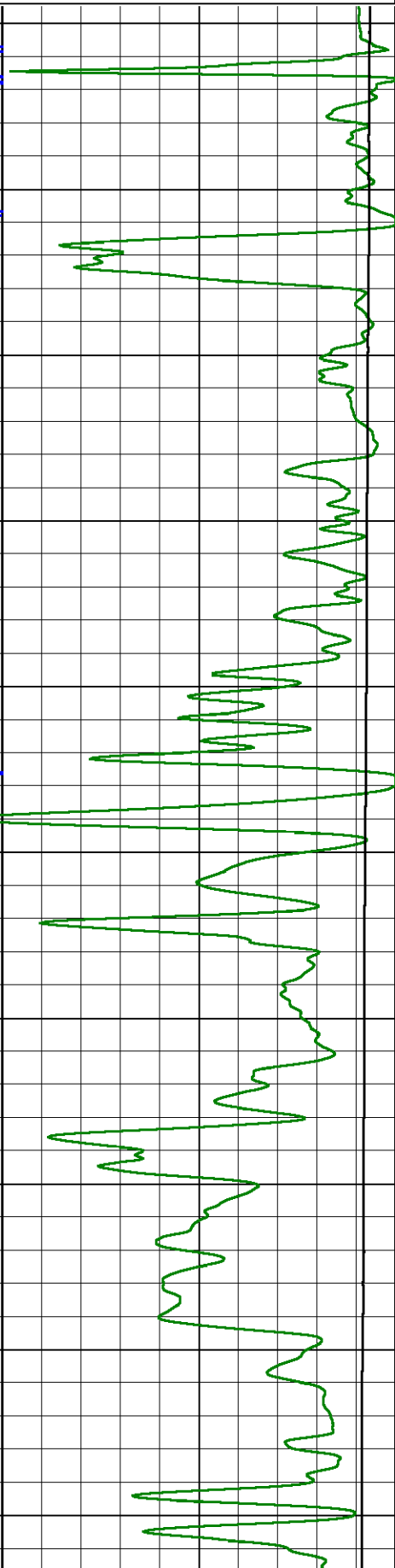
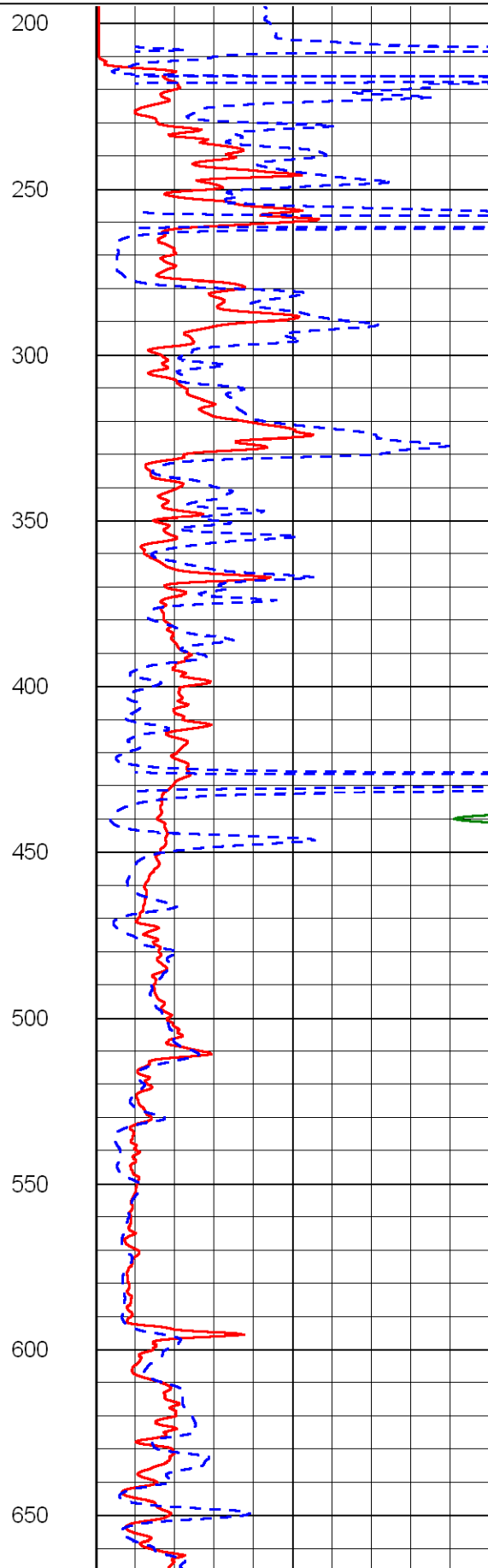
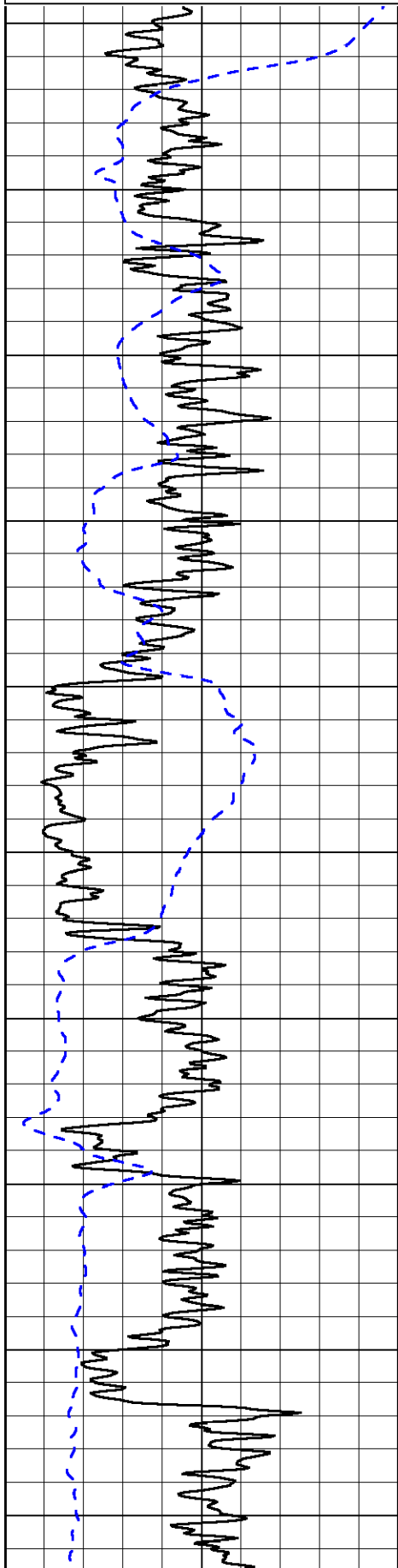
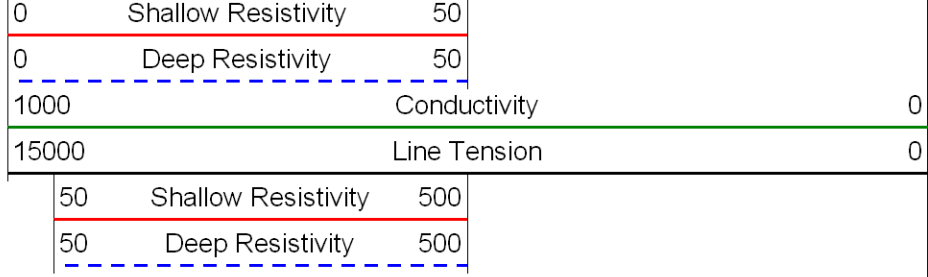
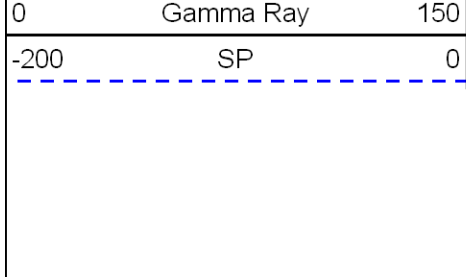
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

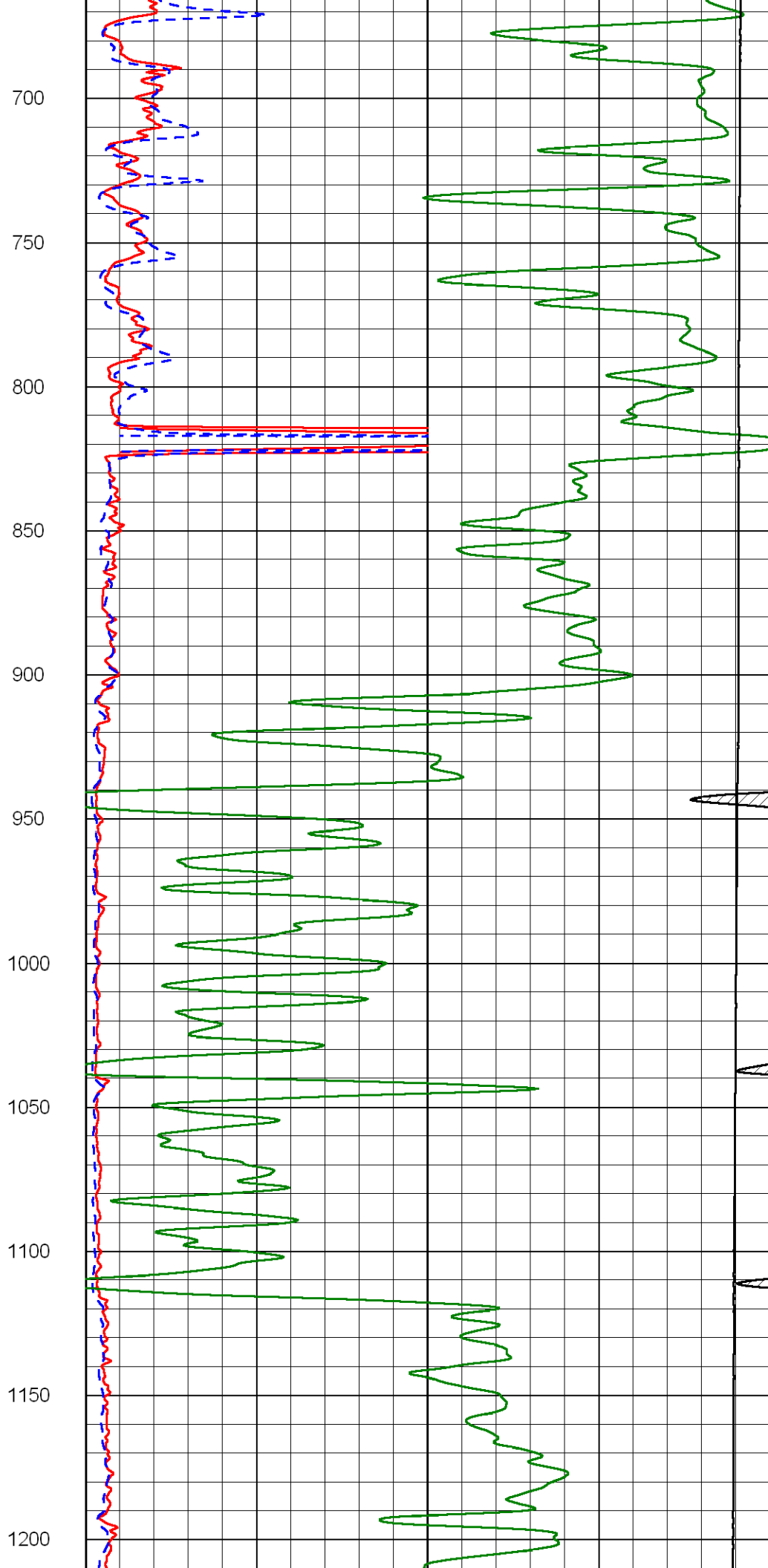
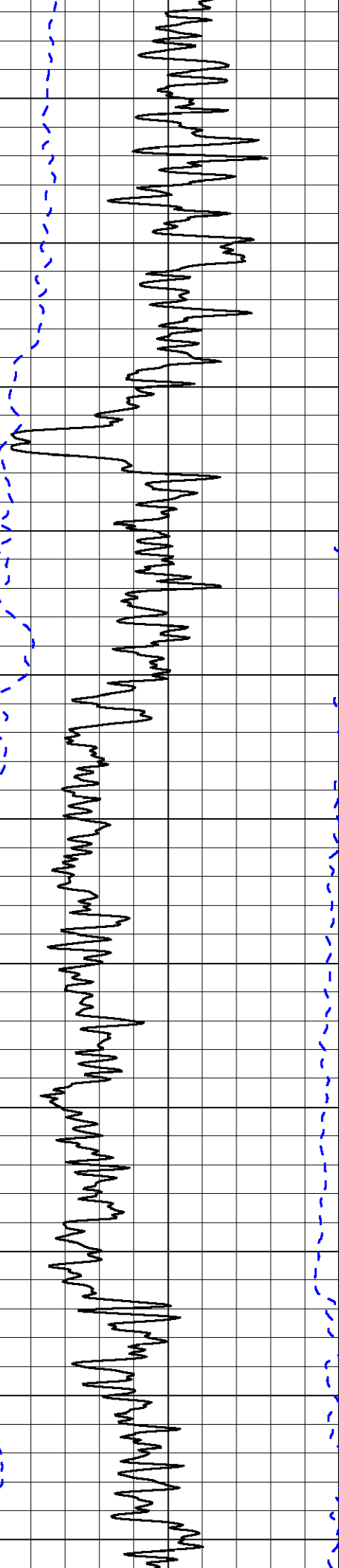
Comments

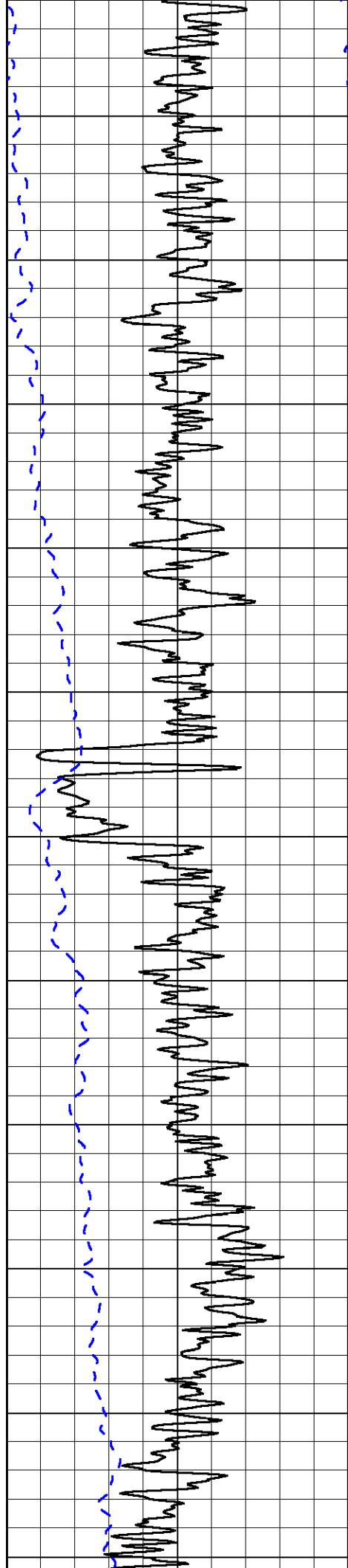
Thank you for using Log-Tech, Inc.
(785) 625-3858

Bazine,
9 South on DD Rd to 40th, 1 West, 1/4 North,
East into

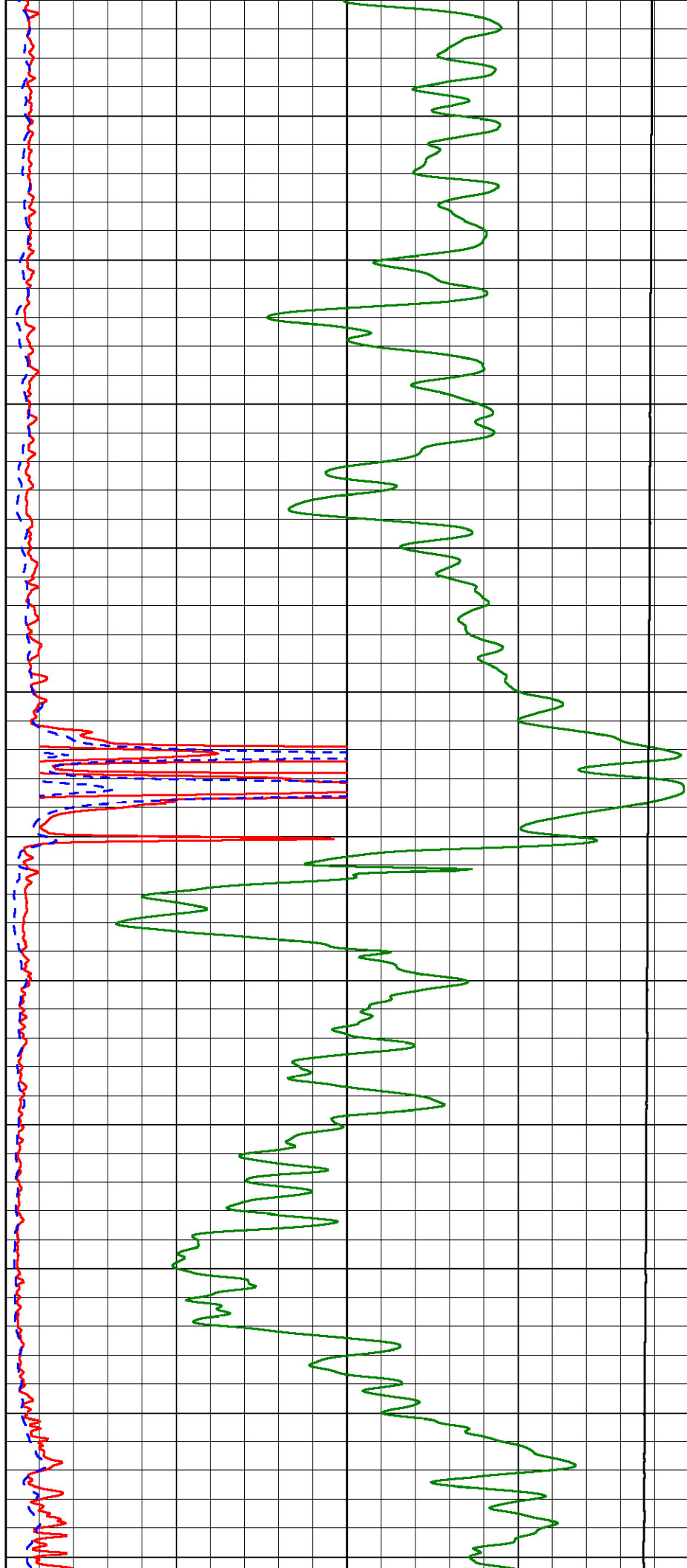
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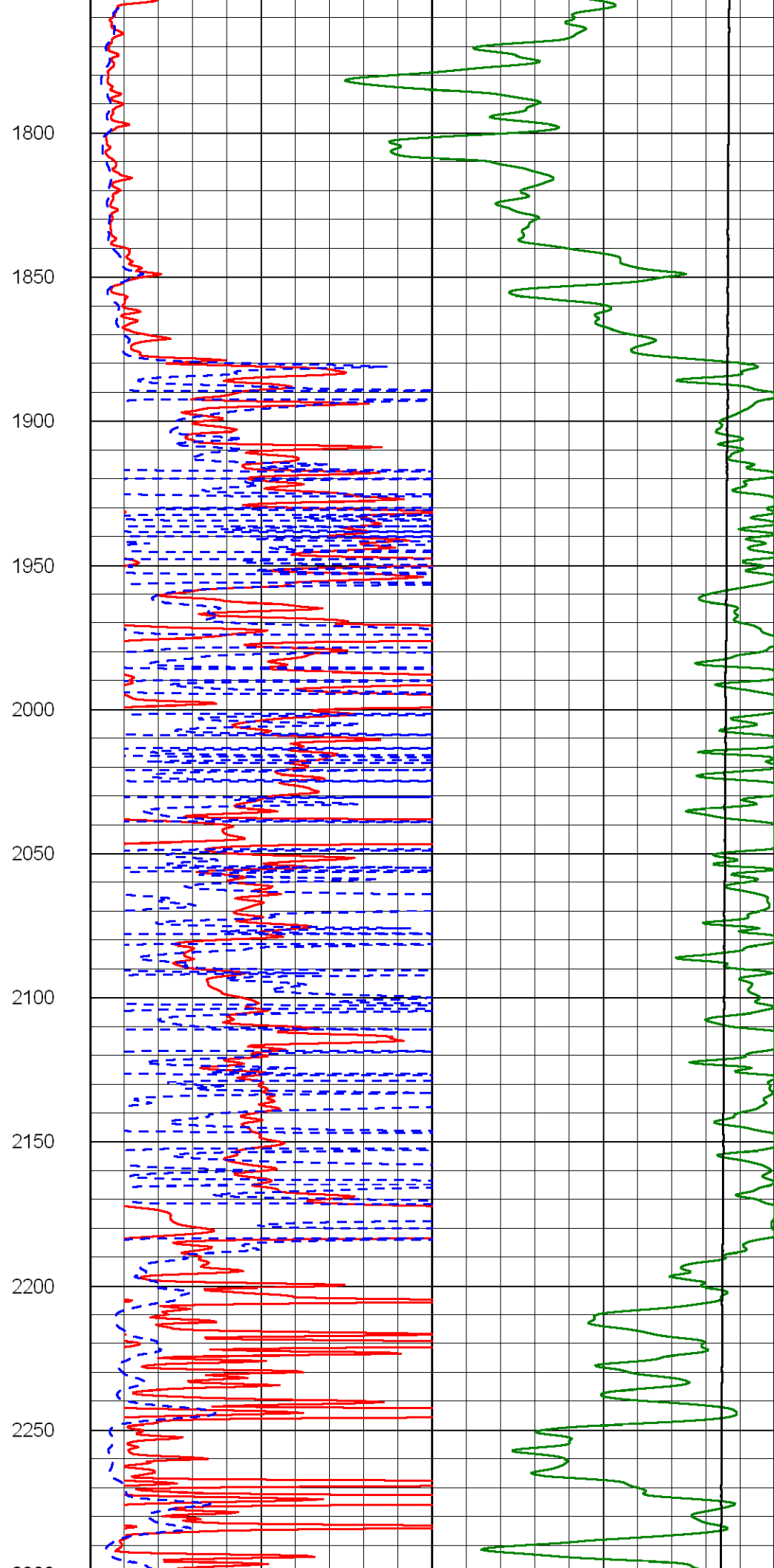
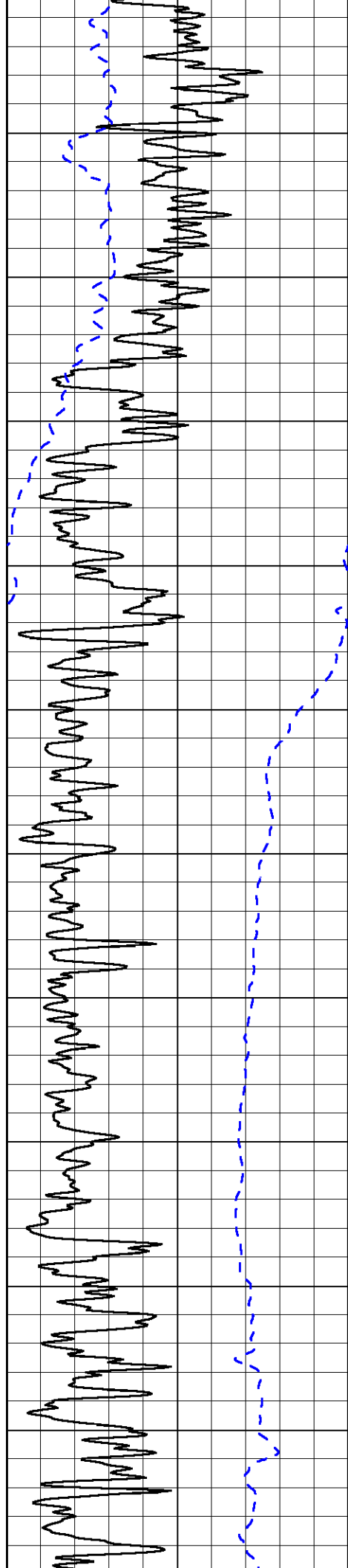


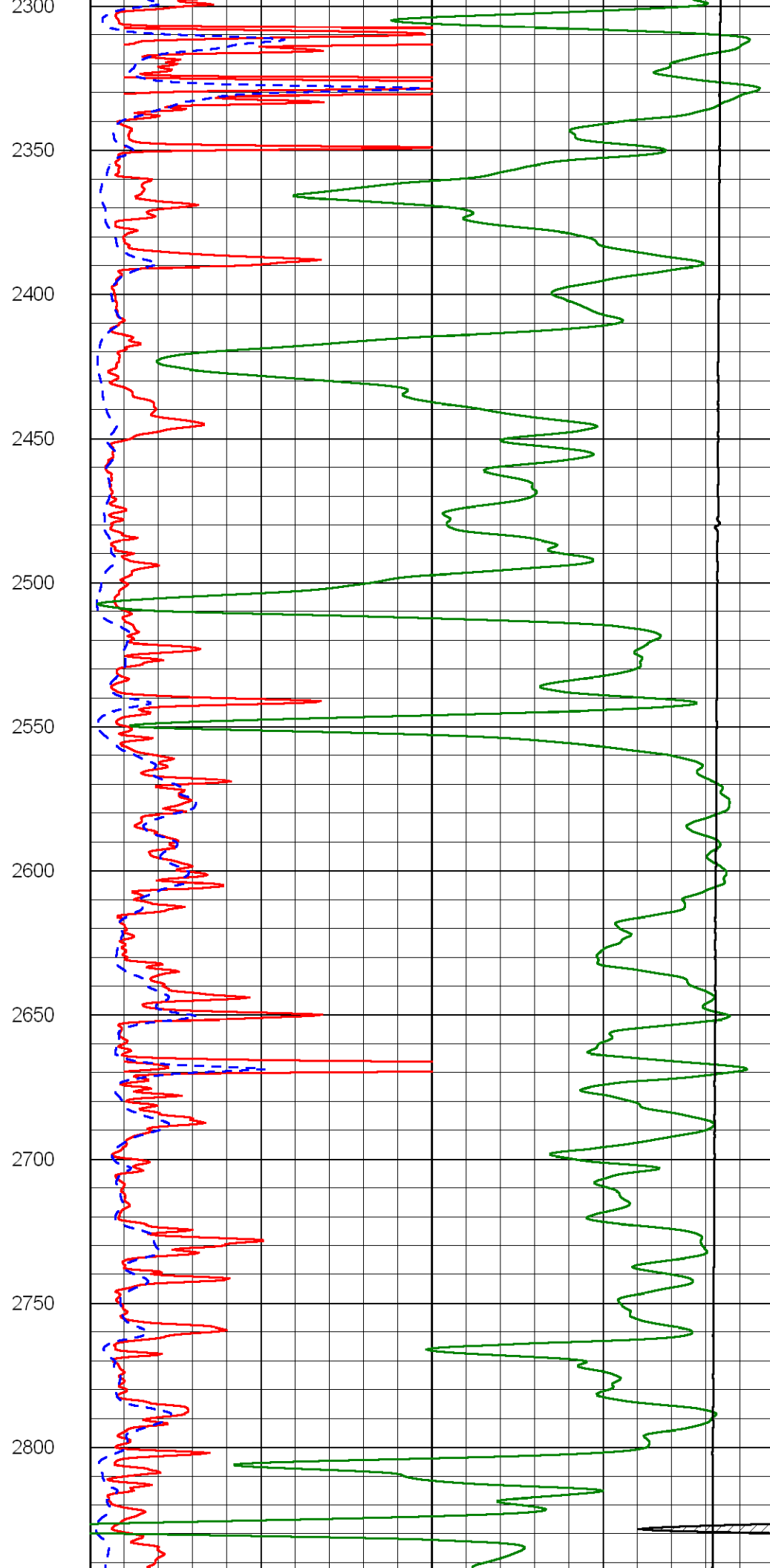
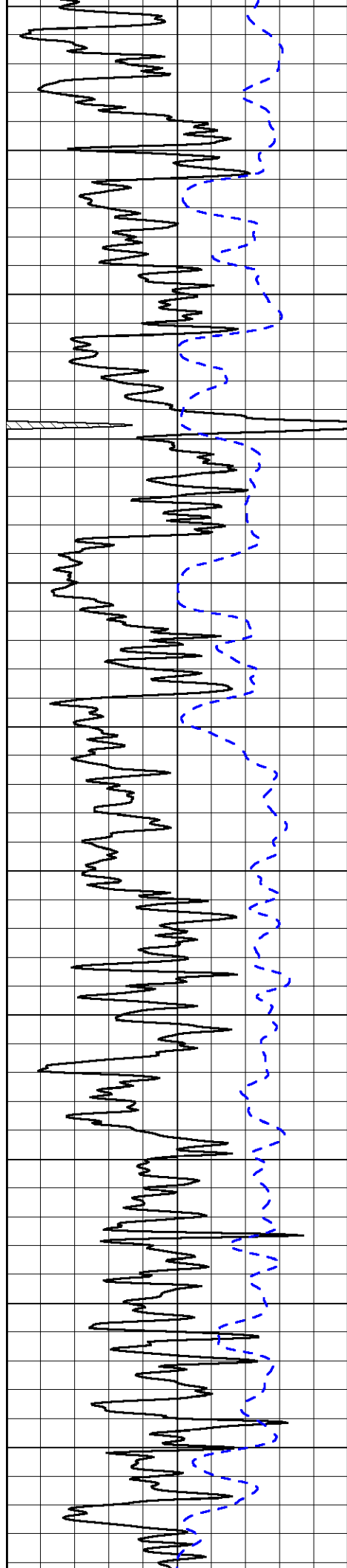


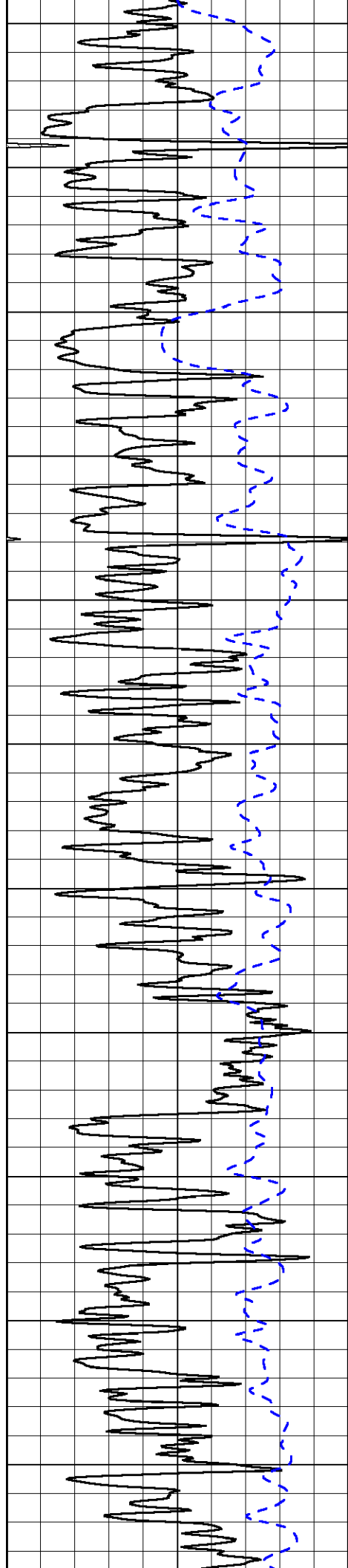


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3100

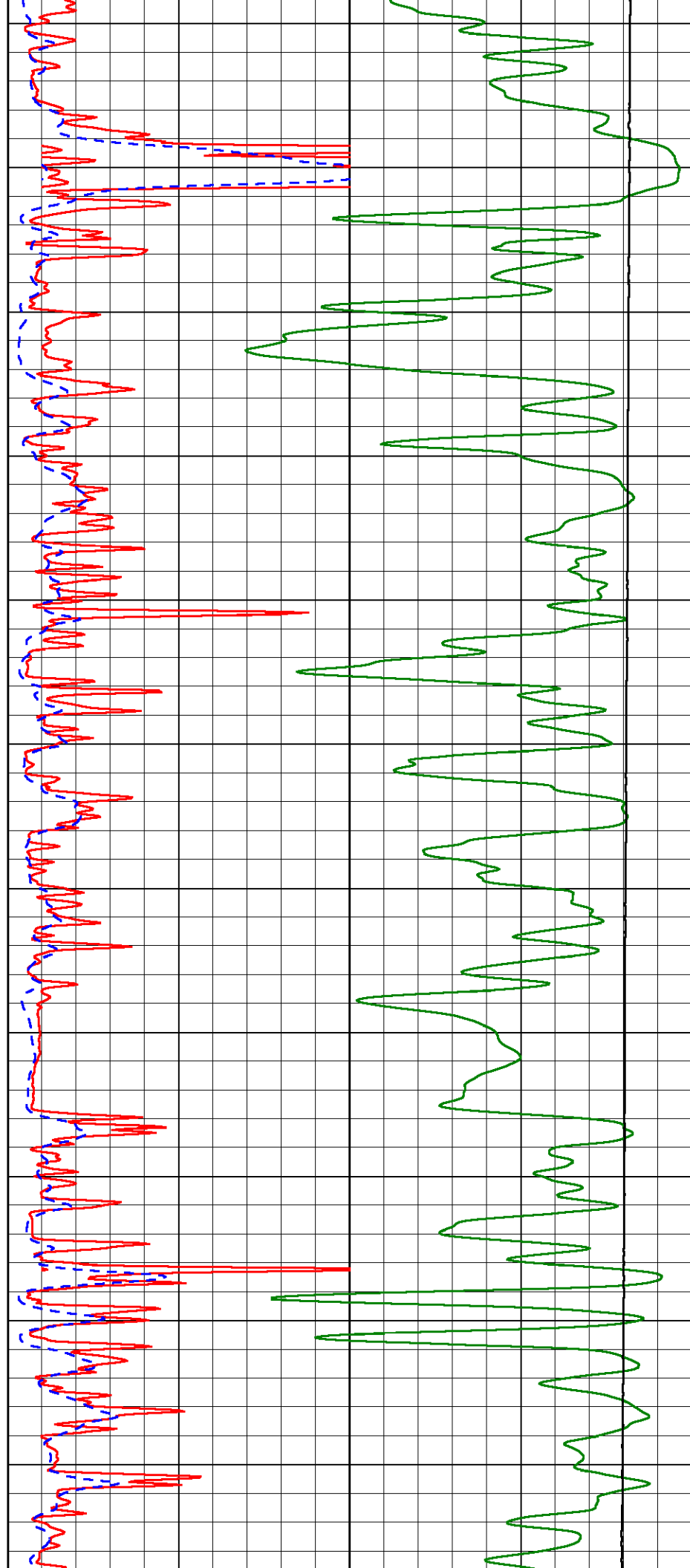
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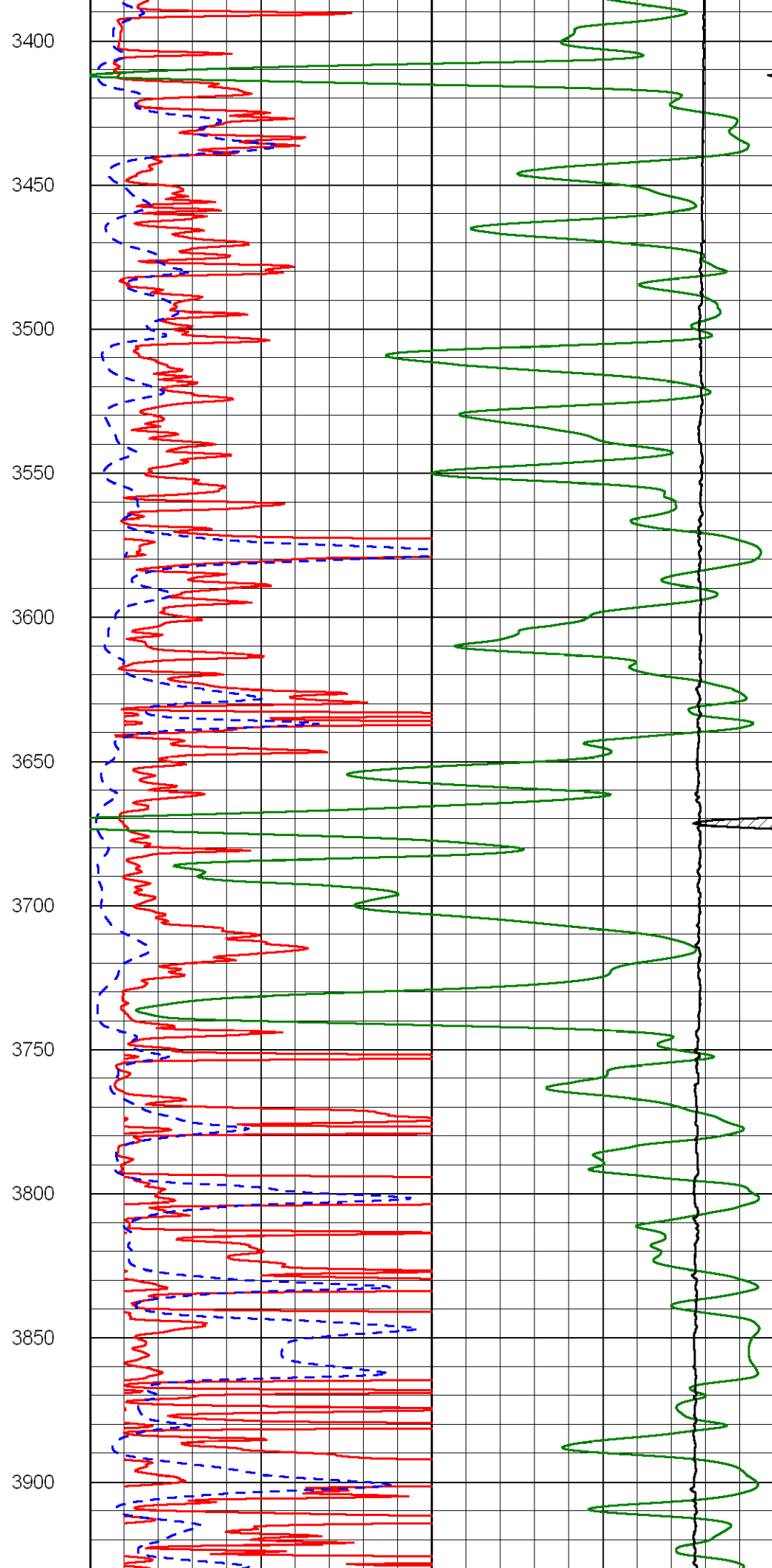
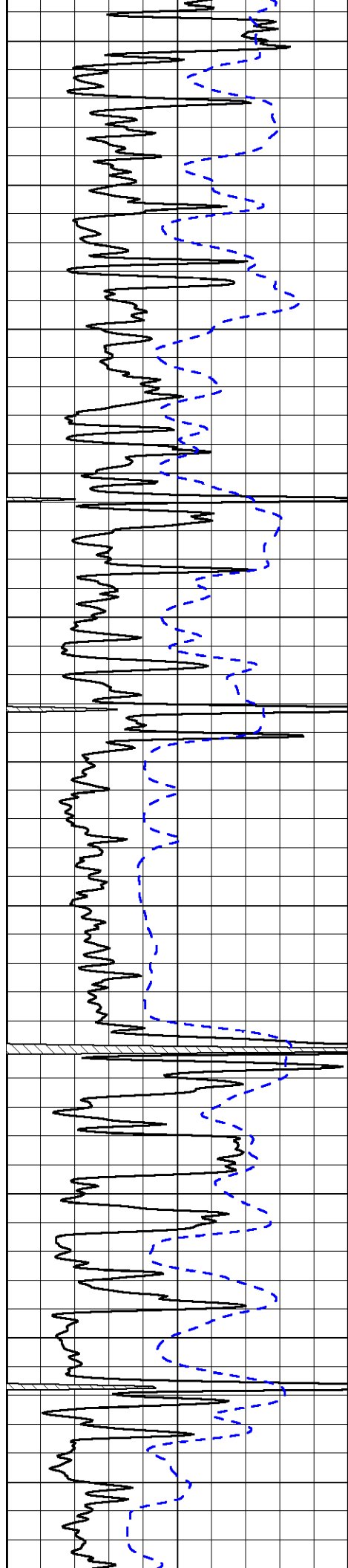
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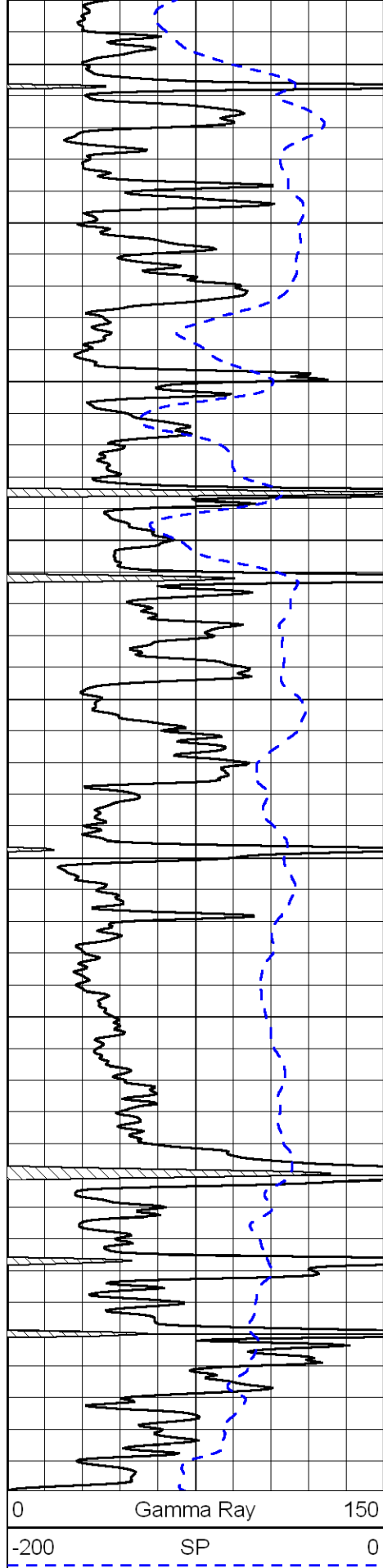
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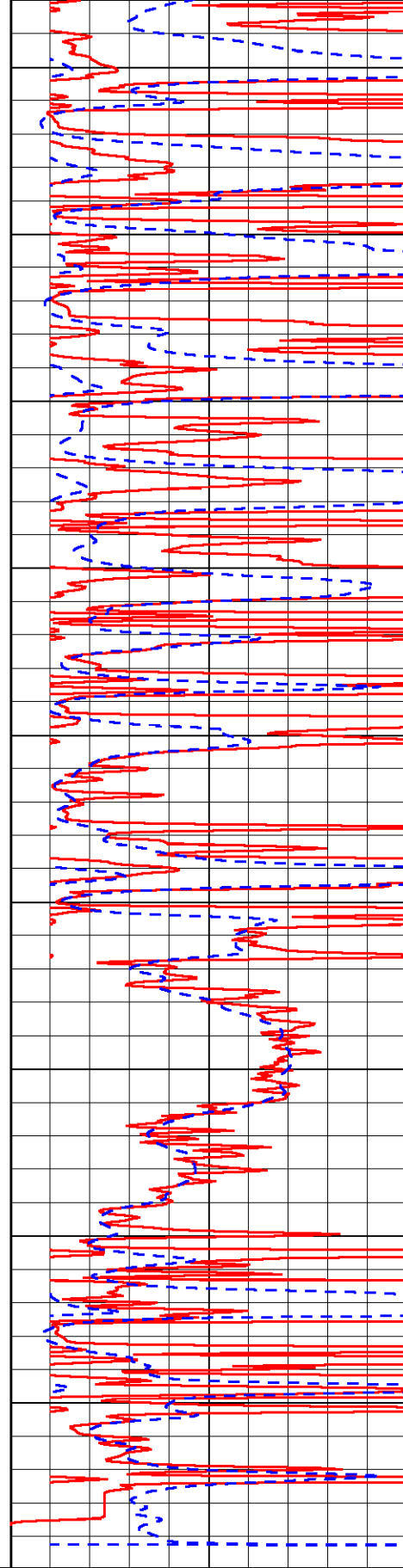
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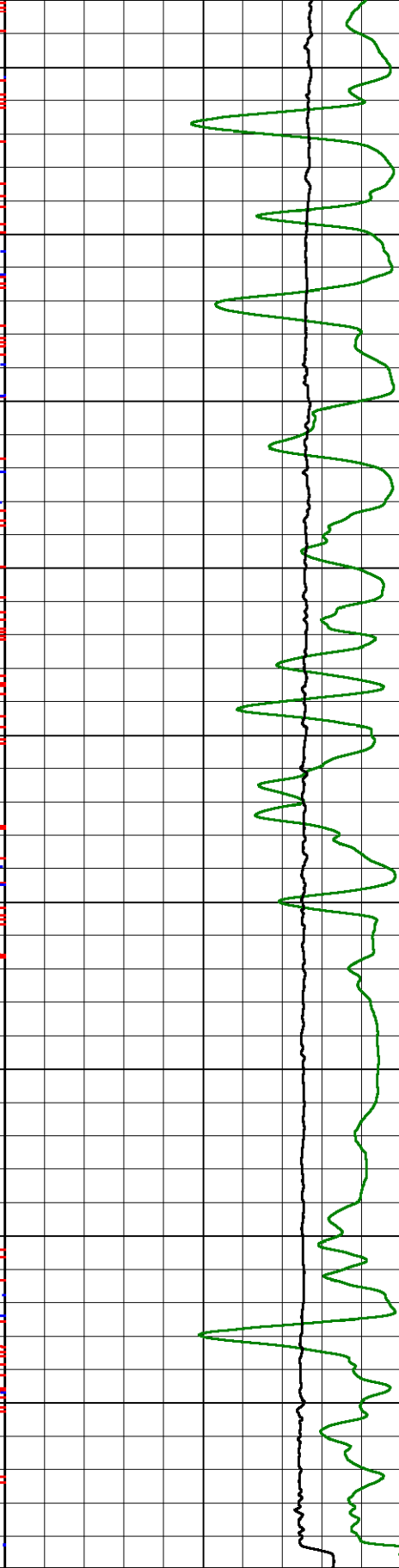
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-200 SP 0



0 Shallow Resistivity 50
0 Deep Resistivity 50

1000 Conductivity 0
15000 Line Tension 0

50 Shallow Resistivity 500
50 Deep Resistivity 500



0 Conductivity 0
0 Line Tension 0

1000 Conductivity 0
15000 Line Tension 0

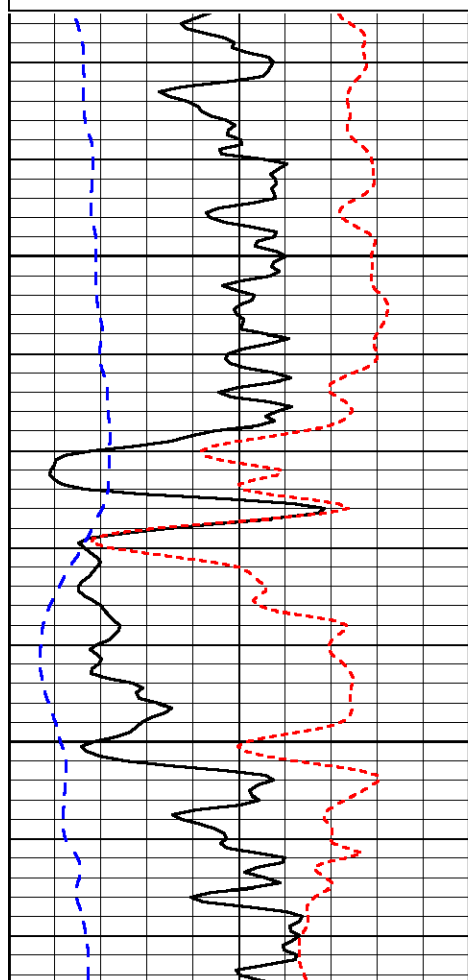
50 Shallow Resistivity 500
50 Deep Resistivity 500

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-200	SP	0

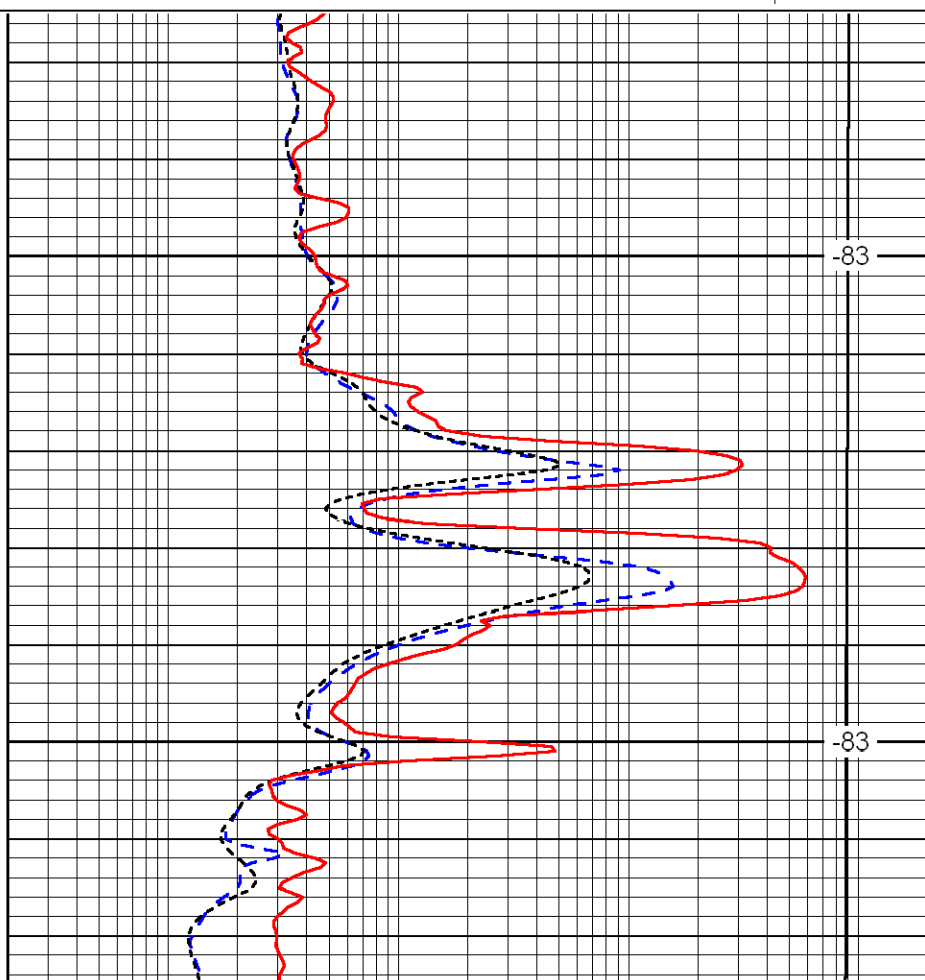
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0.2	Medium Resistivity	2000
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10000	Line Tension	0

LSPD



1450

1500



-83

-83

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

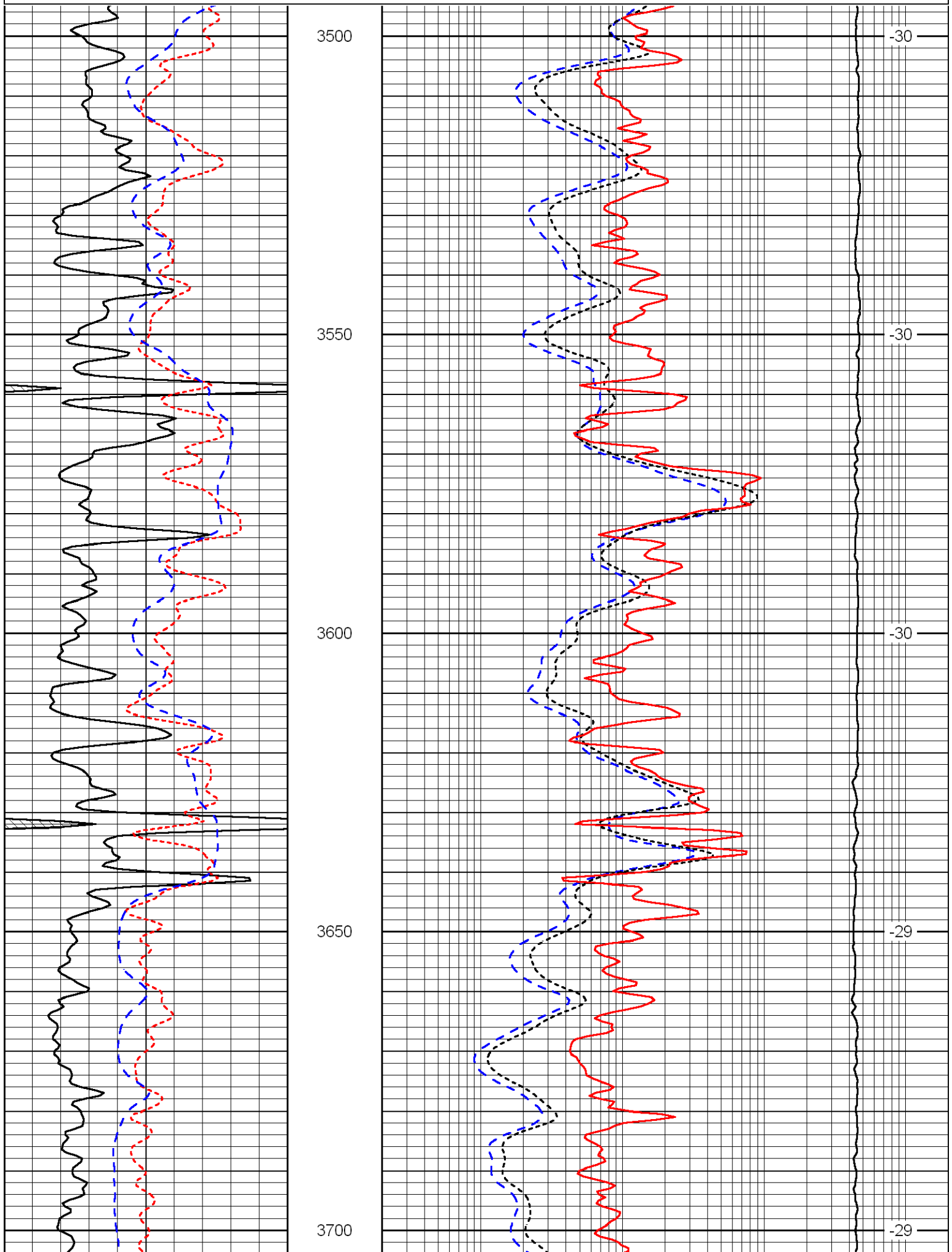
LSPD

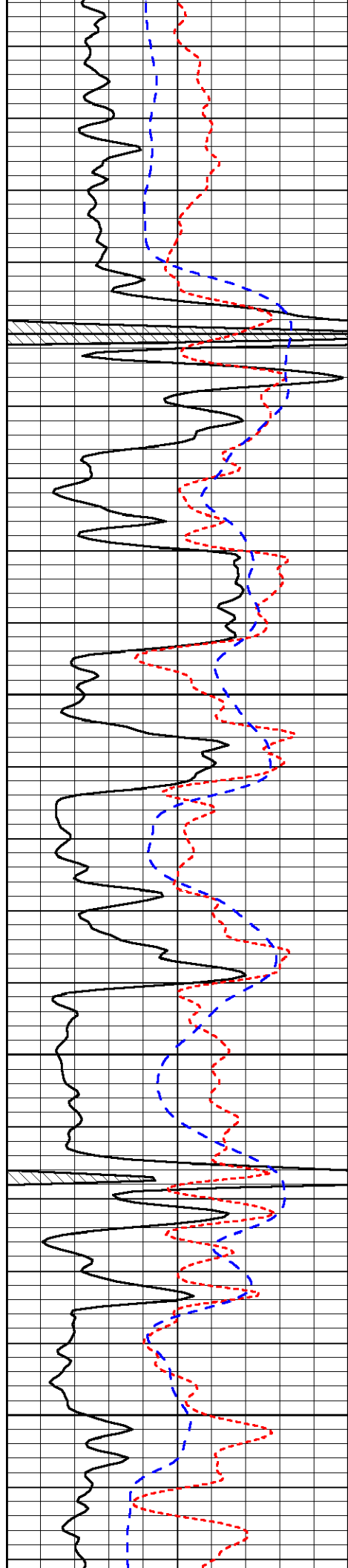
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Dataset Creation: Wed Oct 10 12:10:50 2012
Charted by: Depth in Feet scaled 1:240

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



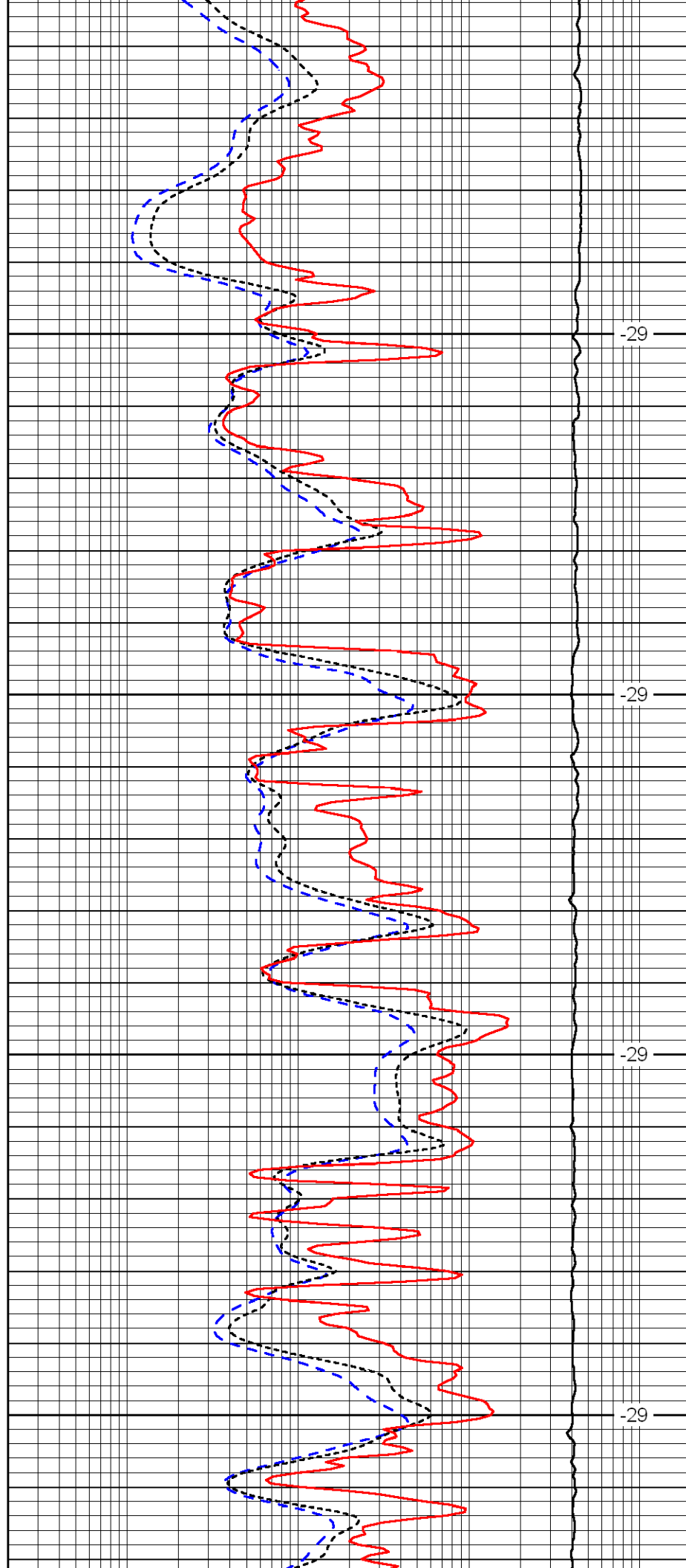


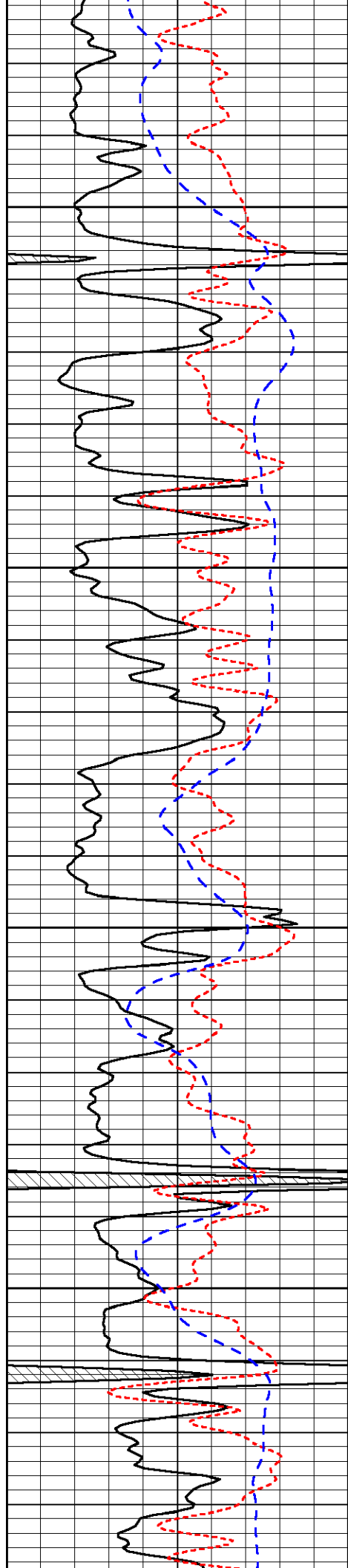
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3900



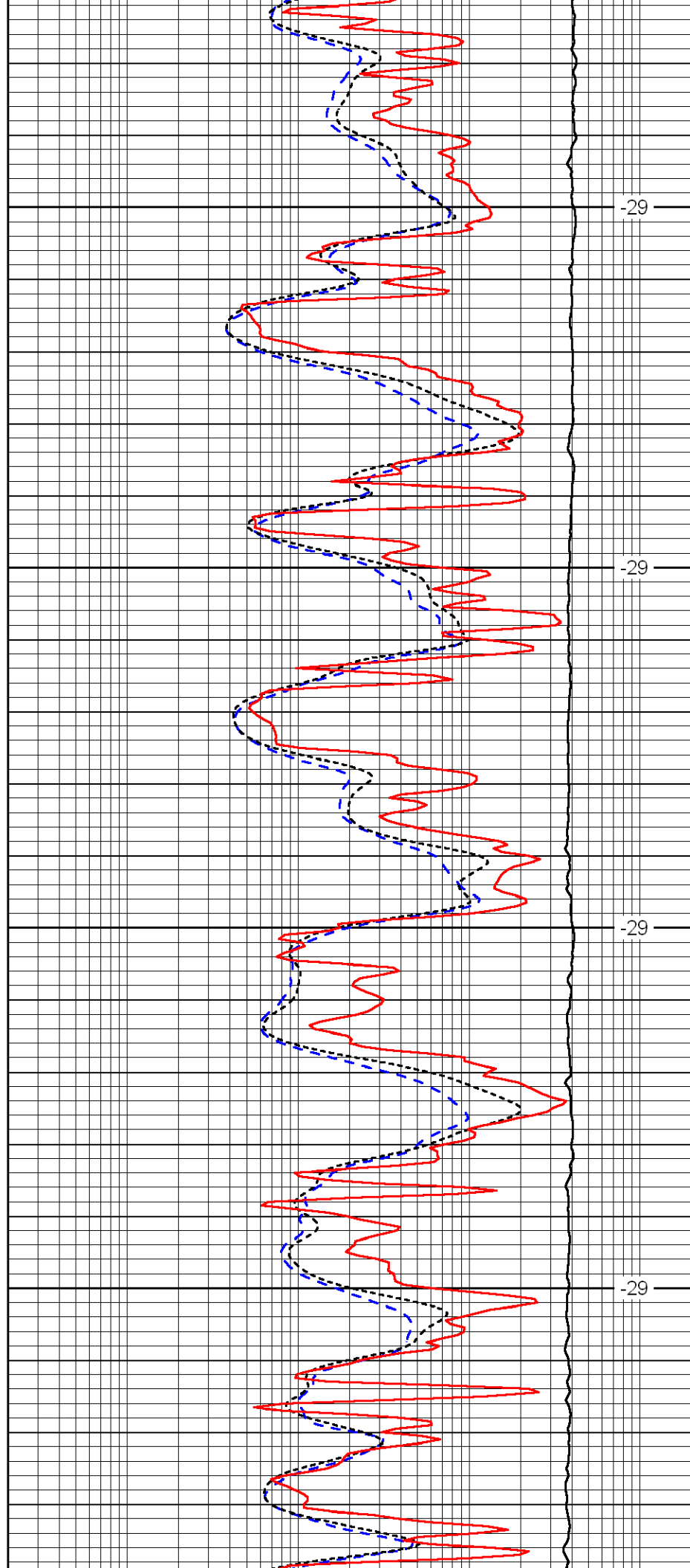


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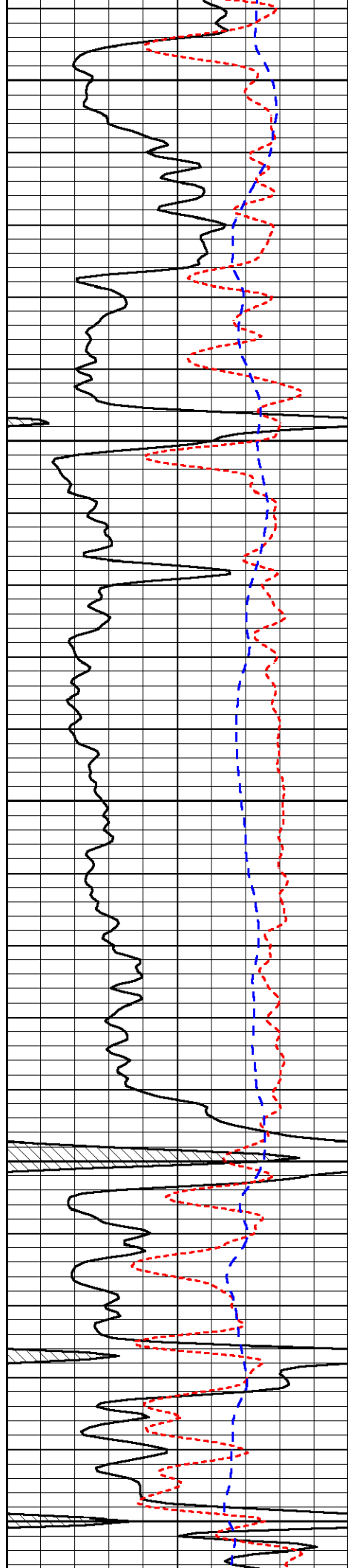


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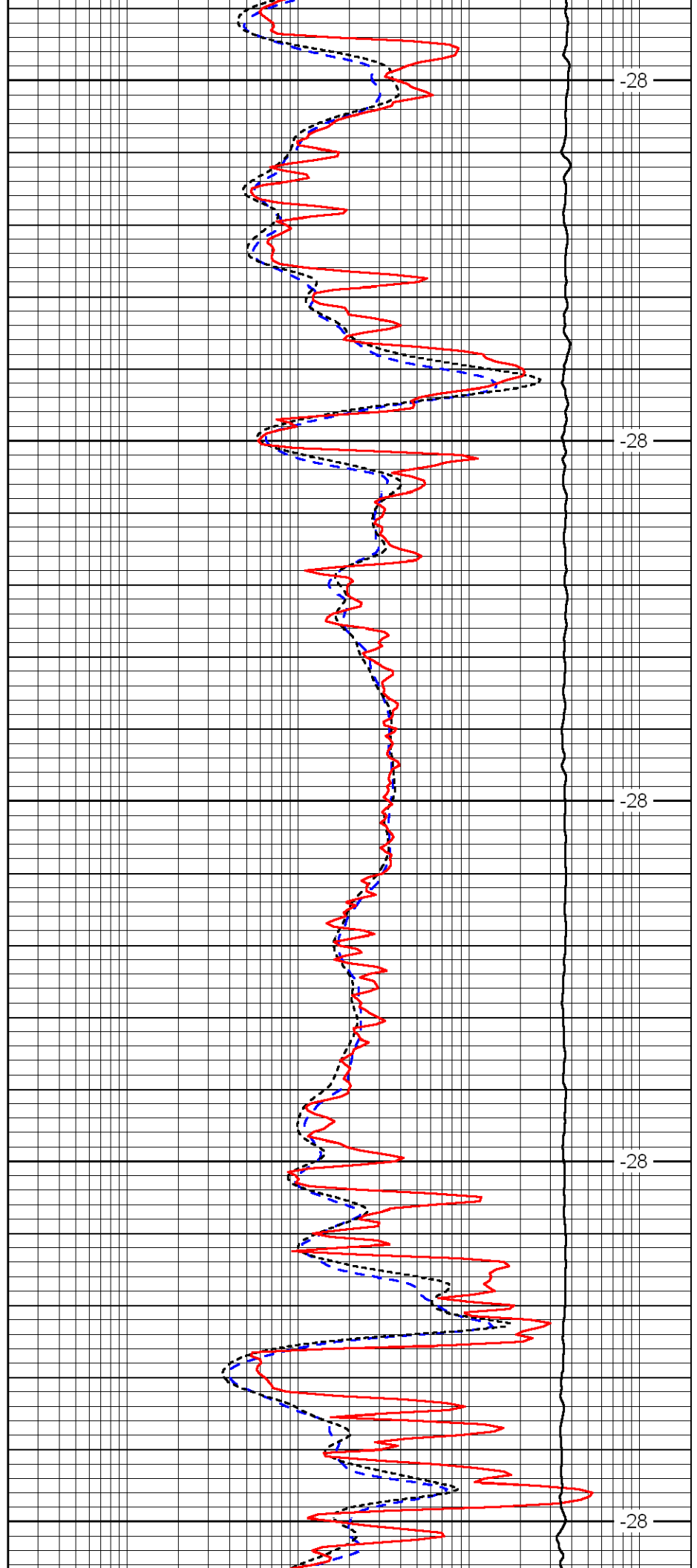
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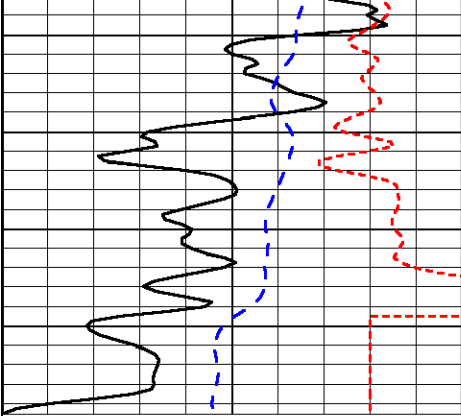
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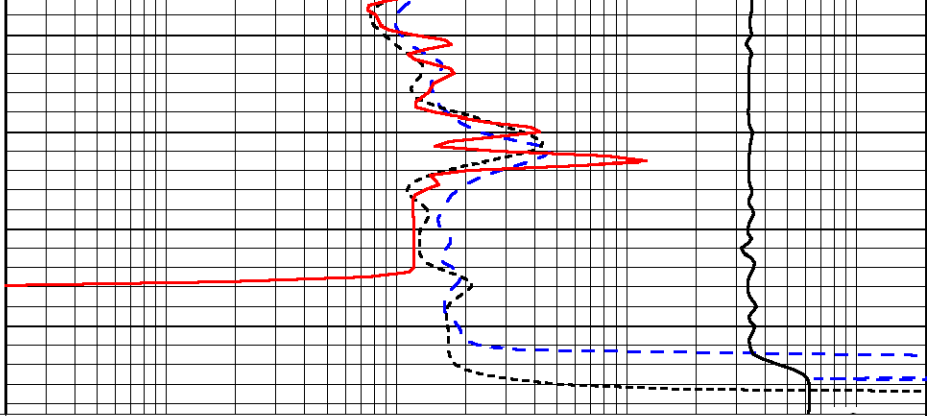
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-28



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