



Dual Induction Log

Pioneer Energy Services

API No.		Company H&D Exploration, LLC			
		Well Mermis #1			
		Field Ash Creek			
		County Pawnee	State	Kansas	
15-145-21713-00-00		Location 2462' FNL & 1341' FEL		Other Services CNL/CDL MEL	
Permanent Datum		Sec: 2	Twp: 21 S	Rge: 16 W	Elevation
Log Measured From	Ground Level	Kelly Bushing		12 Ft. Above Perm. Datum	K.B. 2007
Drilling Measured From	Kelly Bushing				D.F. 1995
Date	3-29-2013				
Run Number	One				
Depth Driller	3915				
Depth Logger	3917				
Bottom Logged Interval	3916				
Top Log Interval	1000				
Casing Driller	8.625 @ 1000				
Casing Logger	1000				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	9600				
Density / Viscosity	9.2	49			
pH / Fluid Loss	10	10			
Source of Sample	Flowline				
Rm @ Meas. Temp	0.40 @ 60				
Rmf @ Meas. Temp	0.30 @ 60				
Rmc @ Meas. Temp	0.54 @ 60				
Source of Rmf / Rmc	Charts				
Rm @ BHT	0.20 @ 117				
Operating Rig Time	3 1/2 Hours				
Max Rec. Temp. F	117				
Equipment Number	91				
Location	Hays				
Recorded By	Y. Ruiz				
Witnessed By	Kurt Talbott				

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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

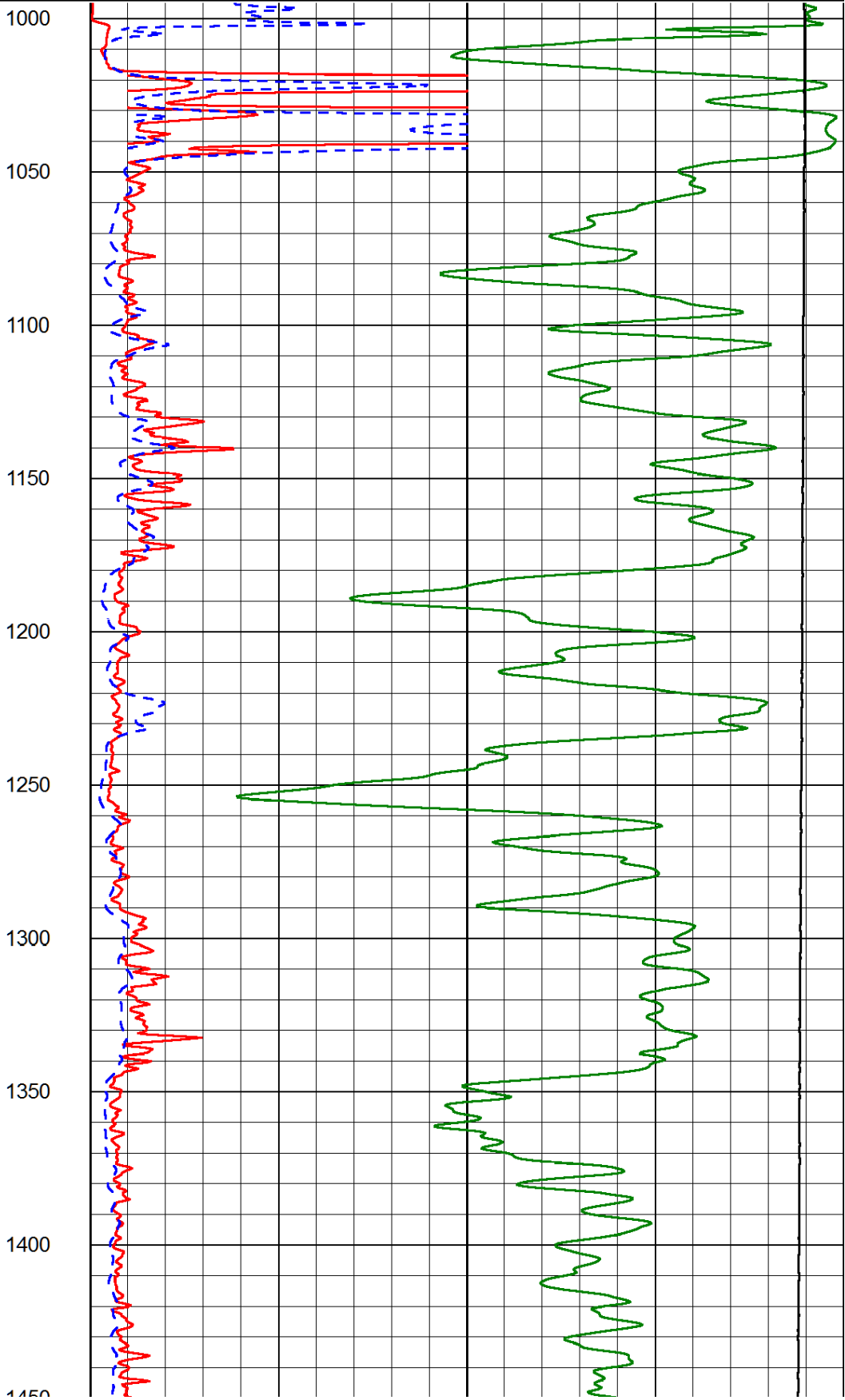
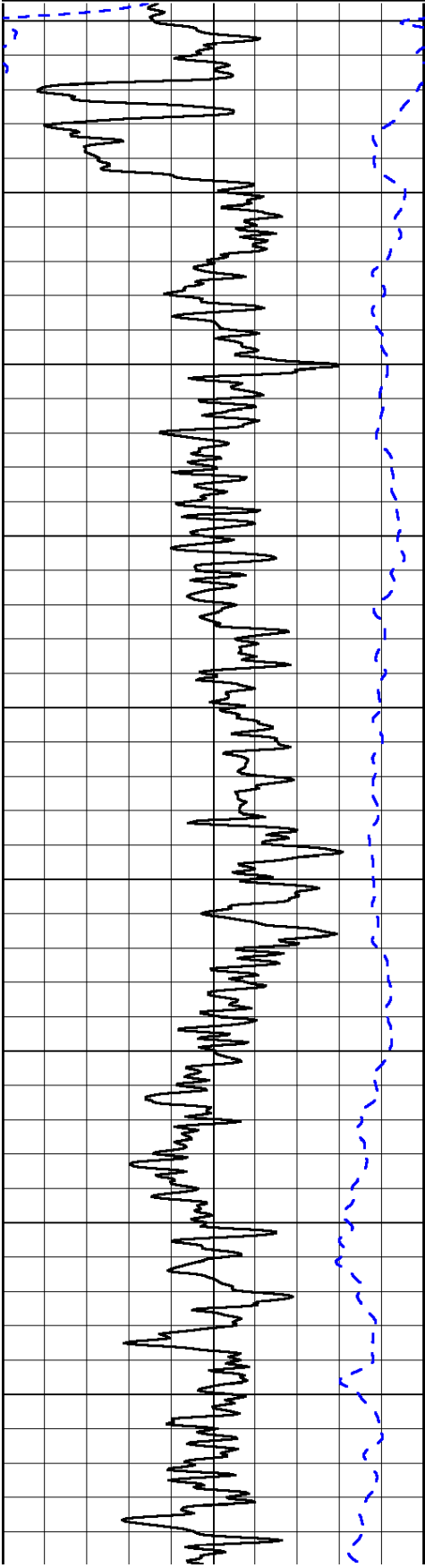
Thank you for using Log-Tech, Inc.
(785) 625-3858

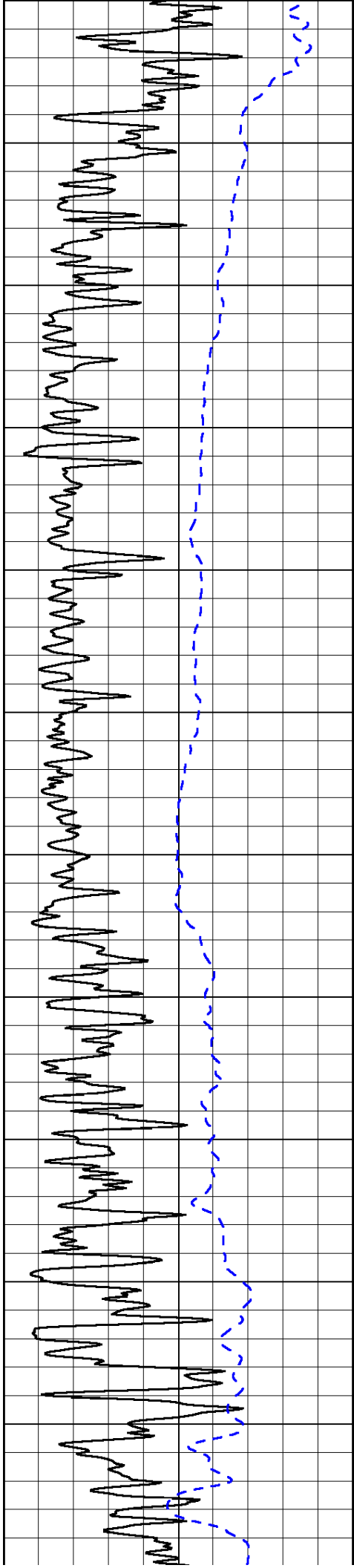
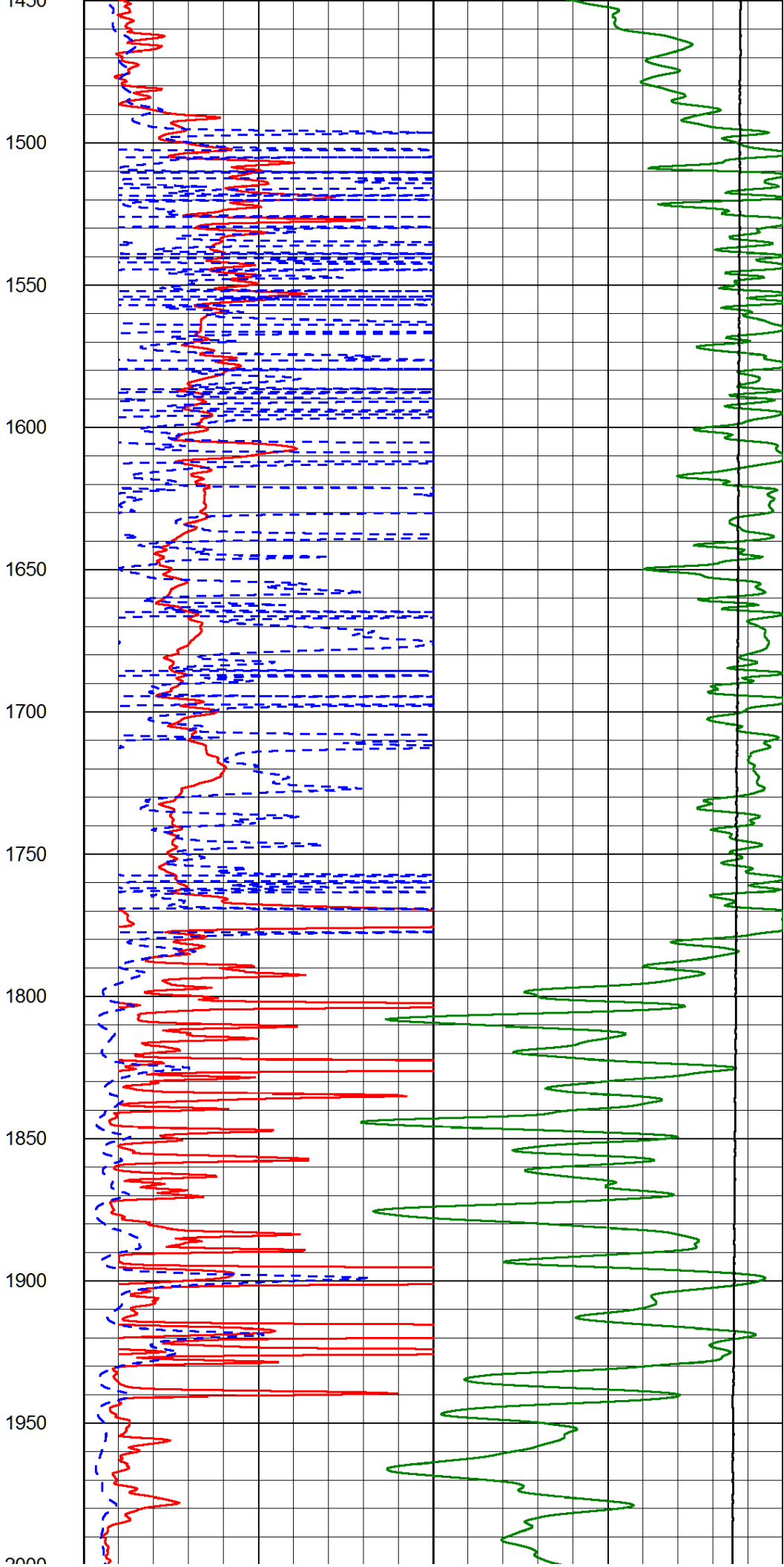
Pawnee Rock,
3 West on T Rd, 1/2 South,
West into

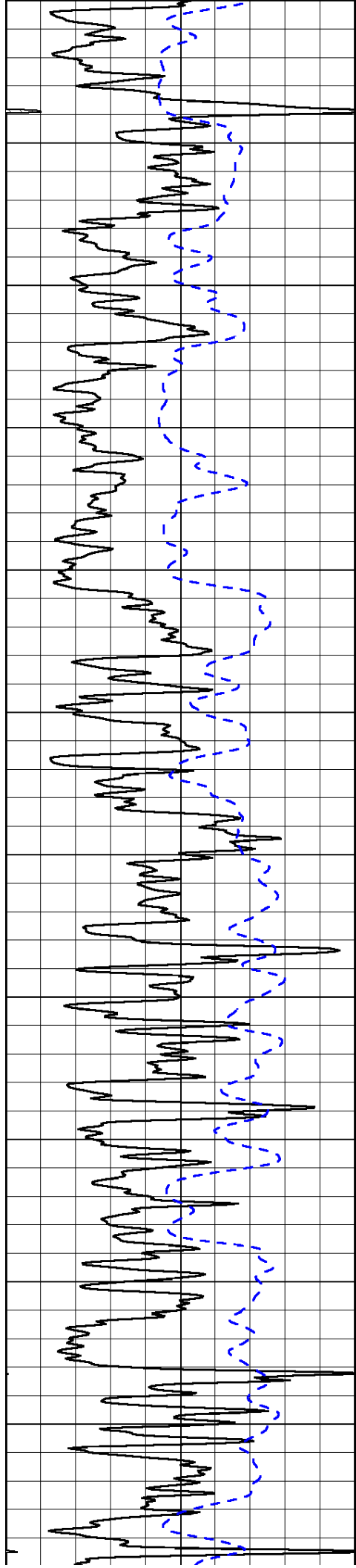
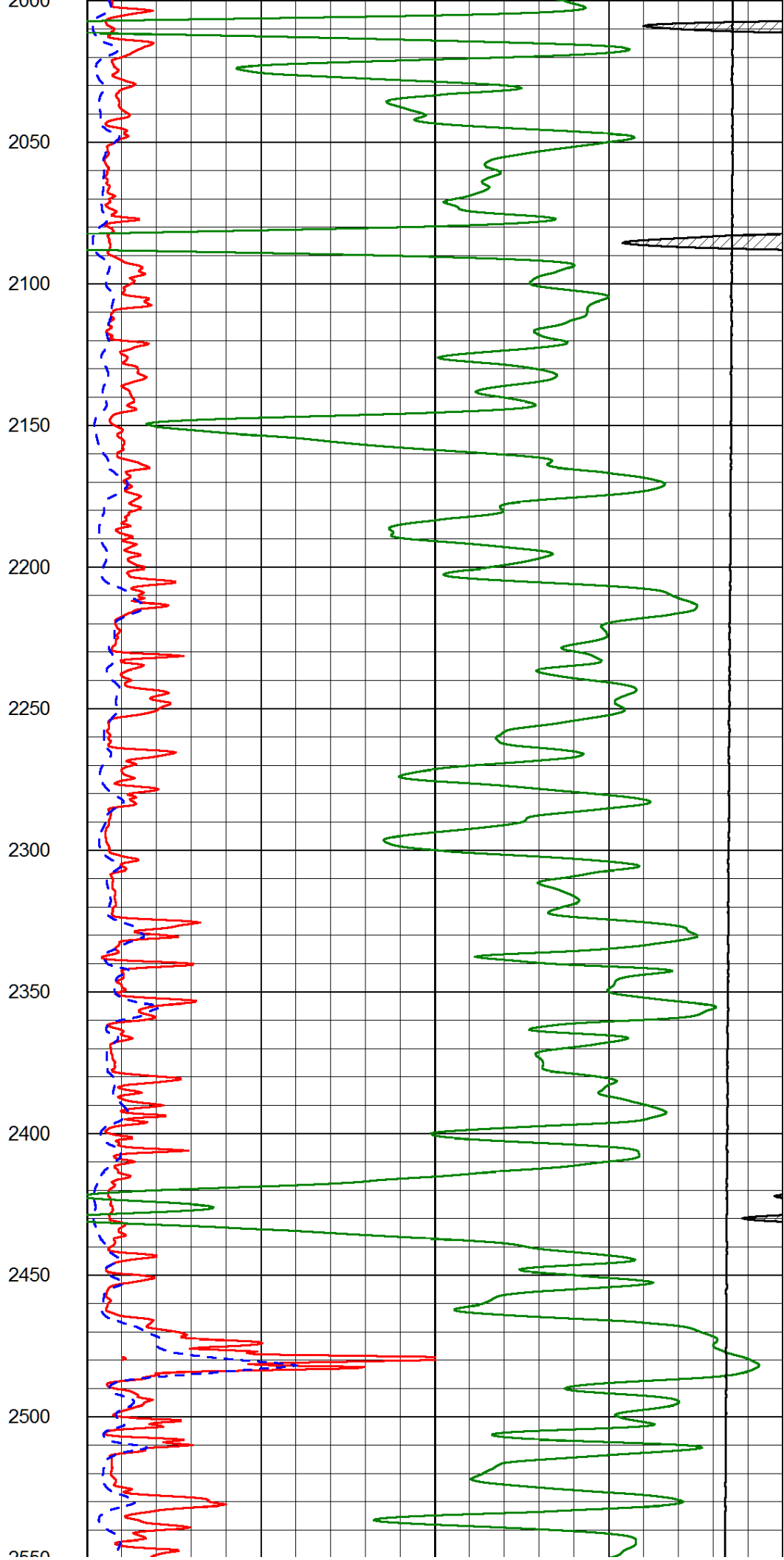
Database File: hdexploration_32913hd.db
Dataset Pathname: dil/hdstck
Presentation Format: dil2in
Dataset Creation: Fri Mar 29 13:50:27 2013
Charted by: Depth in Feet scaled 1:600

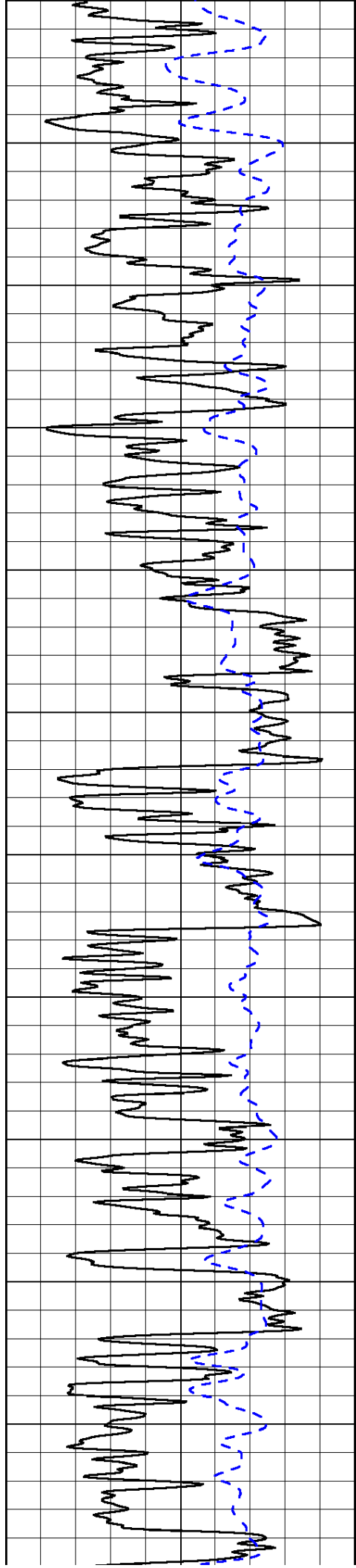
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

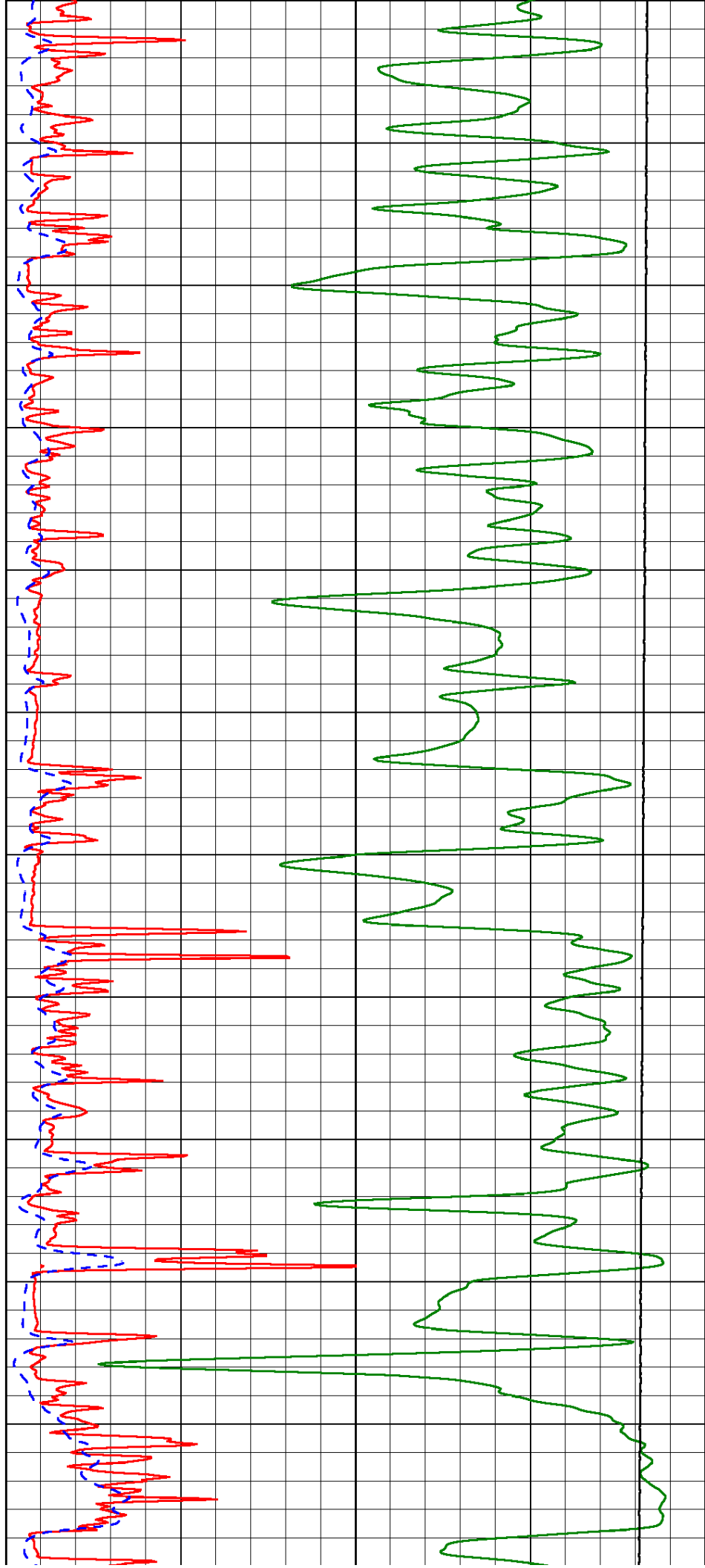


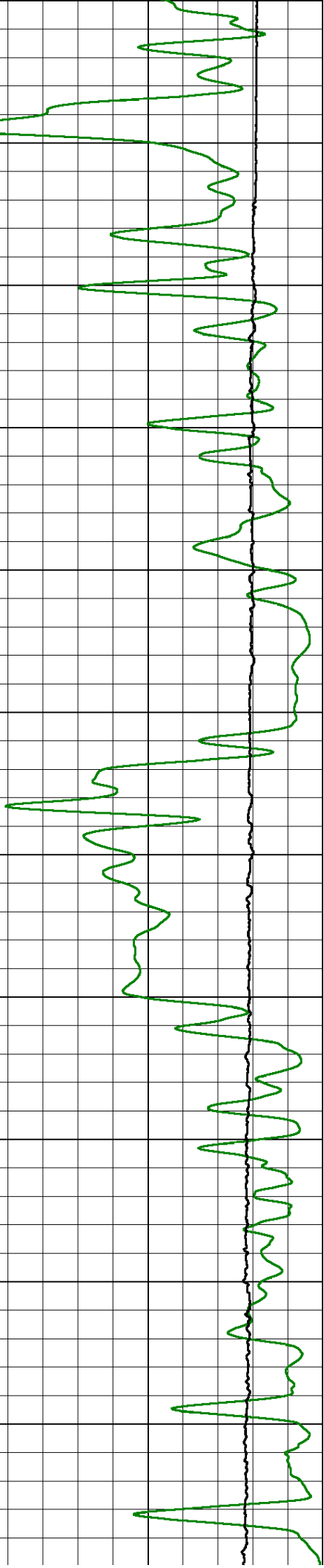
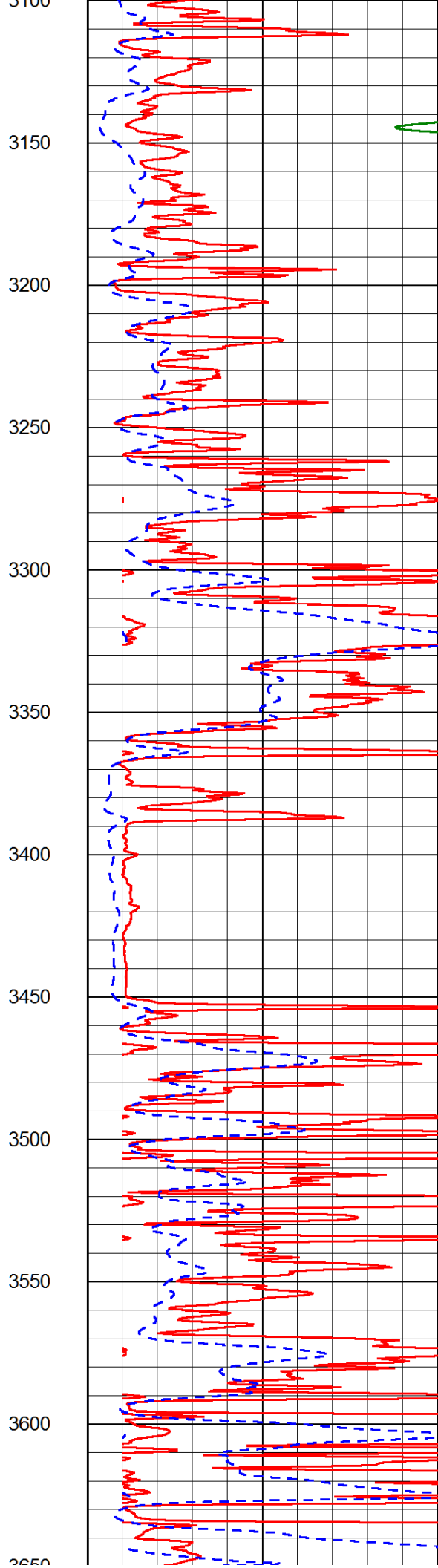
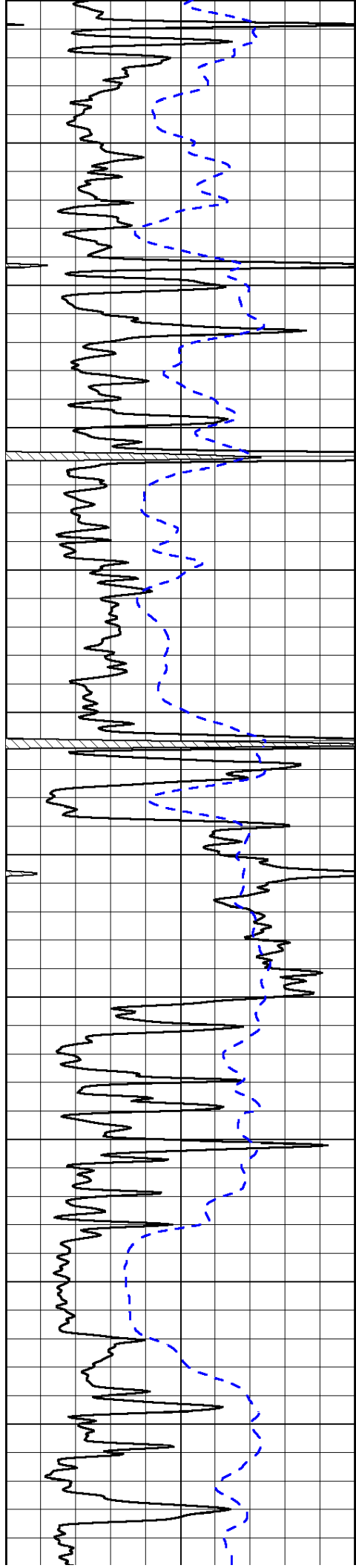


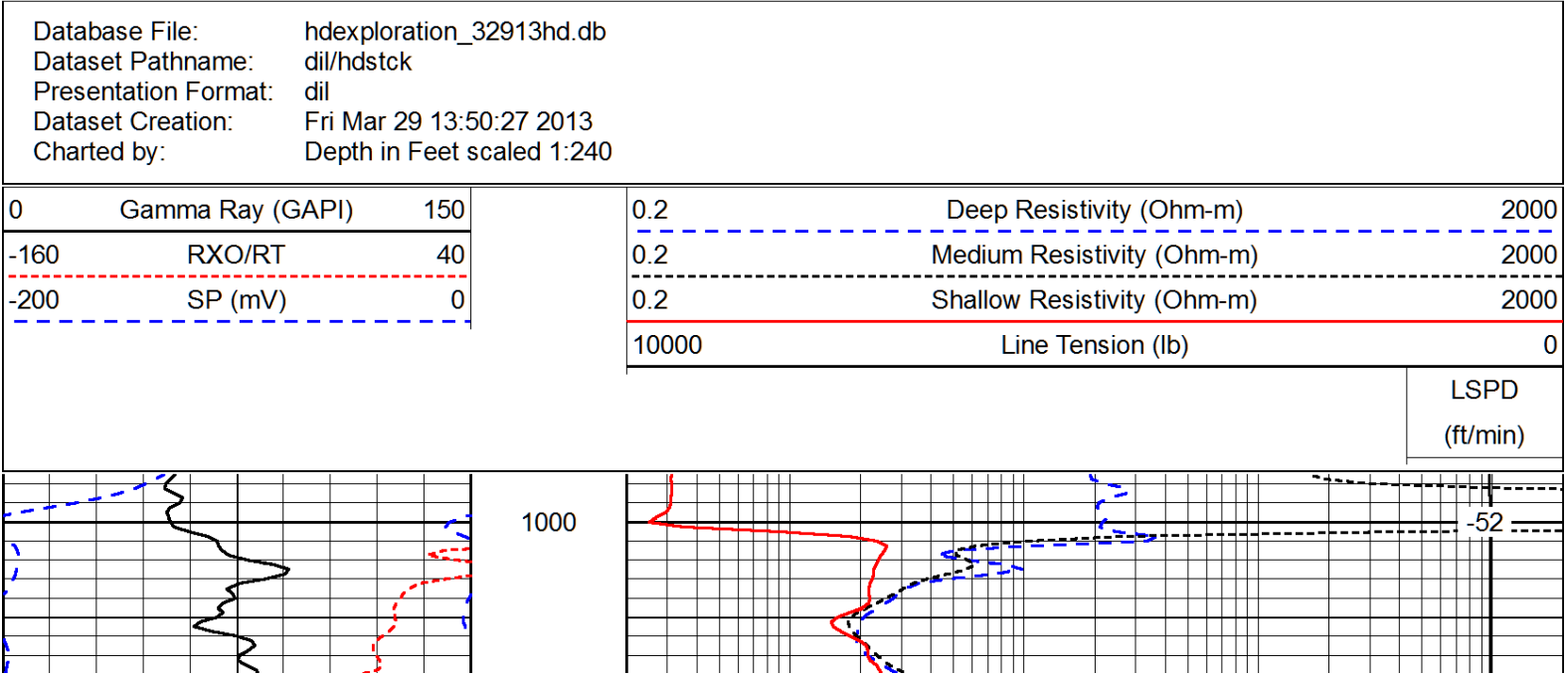
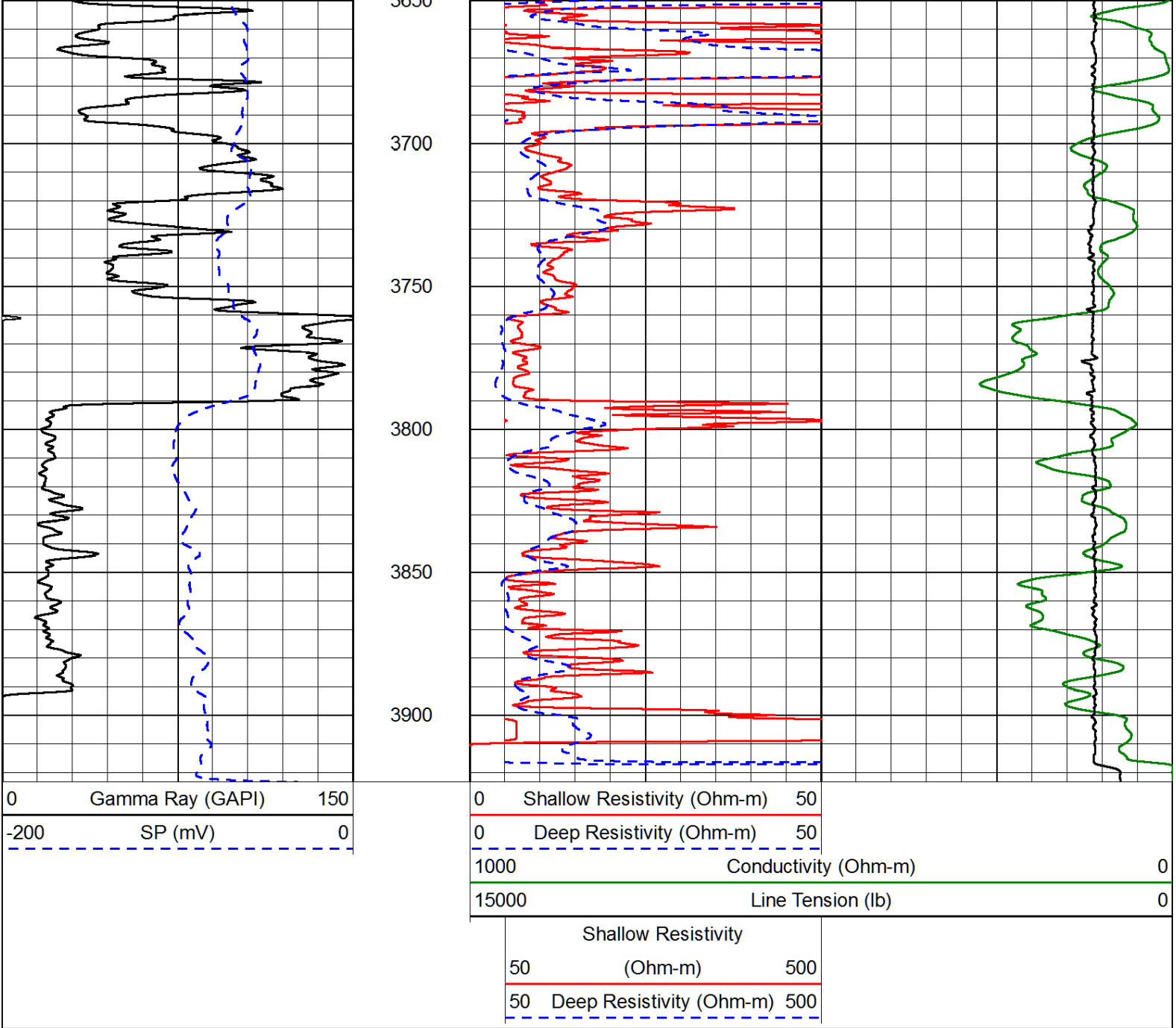


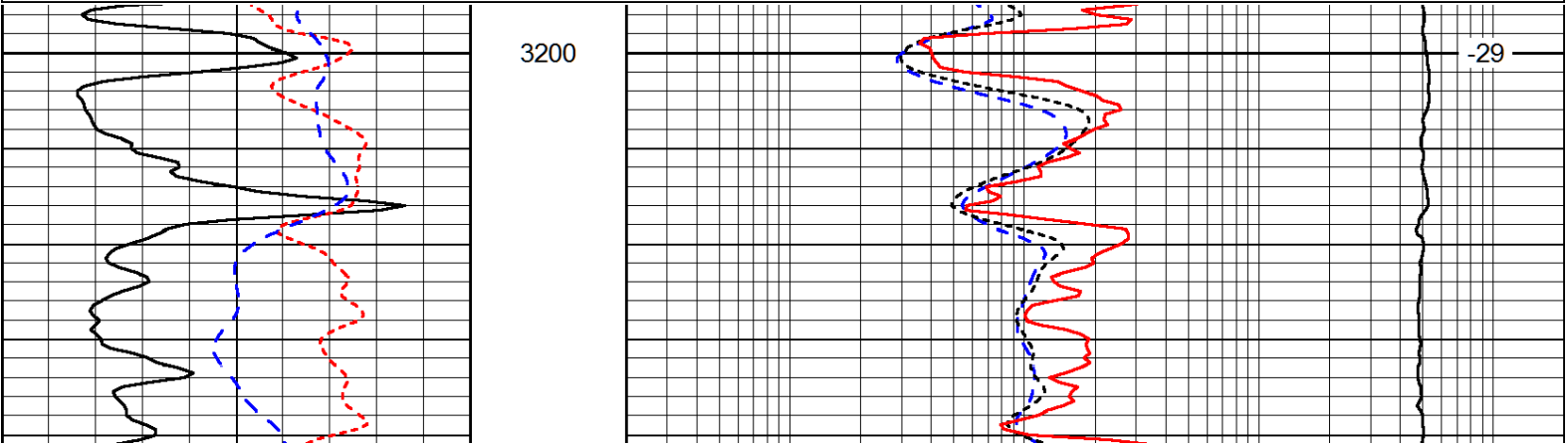
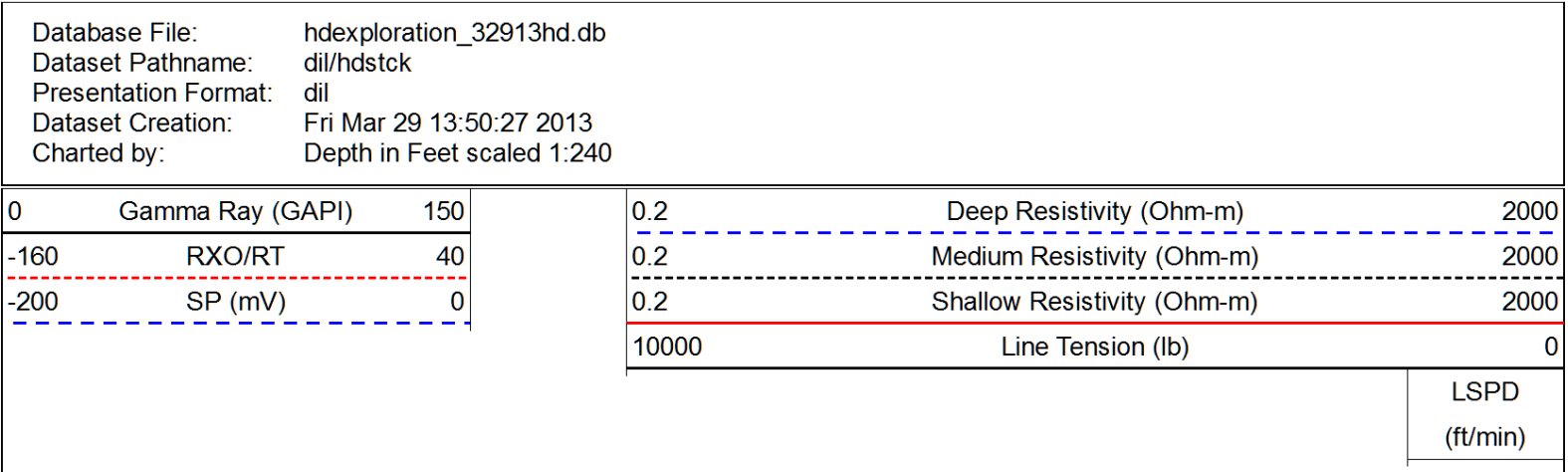
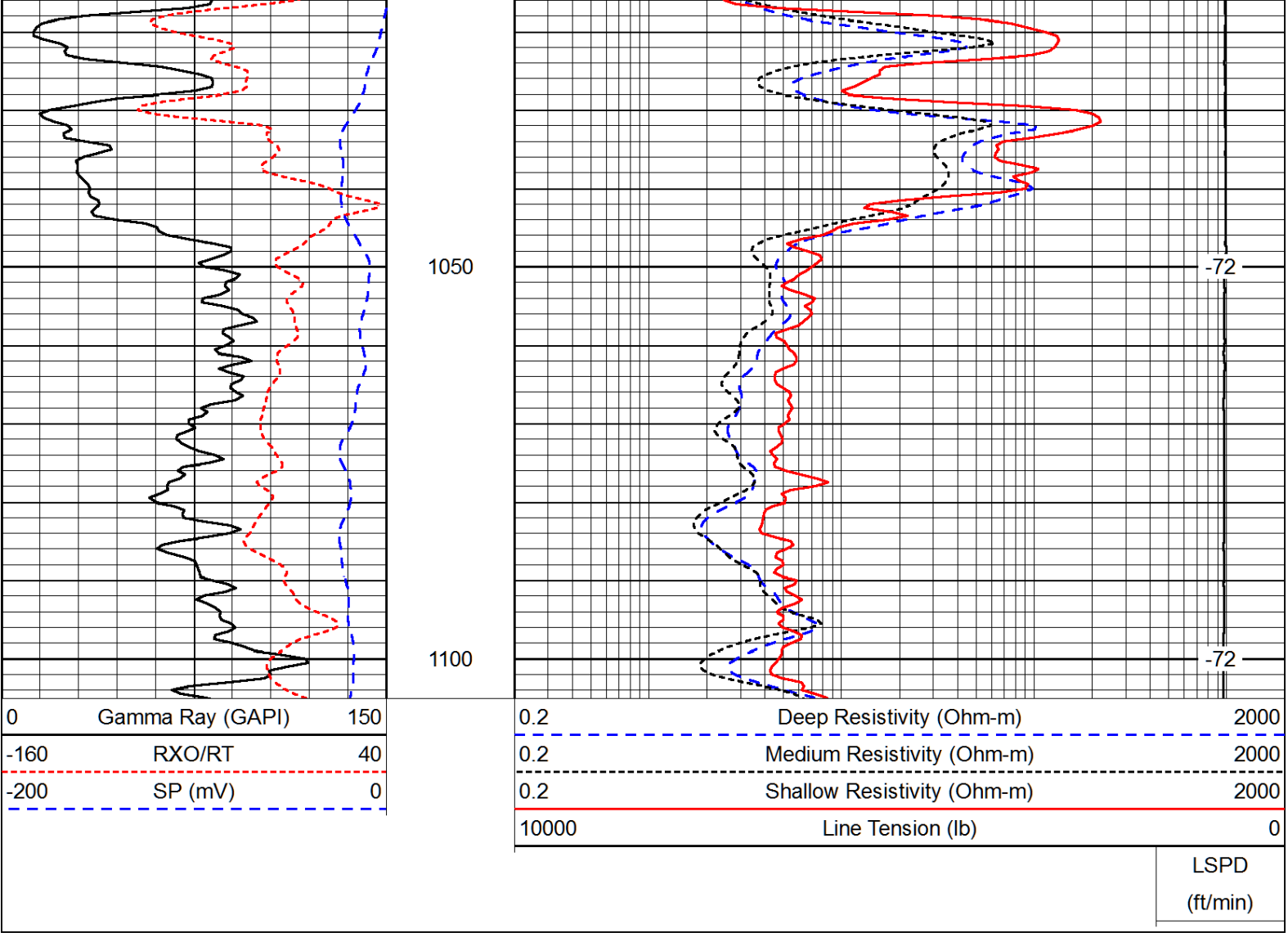


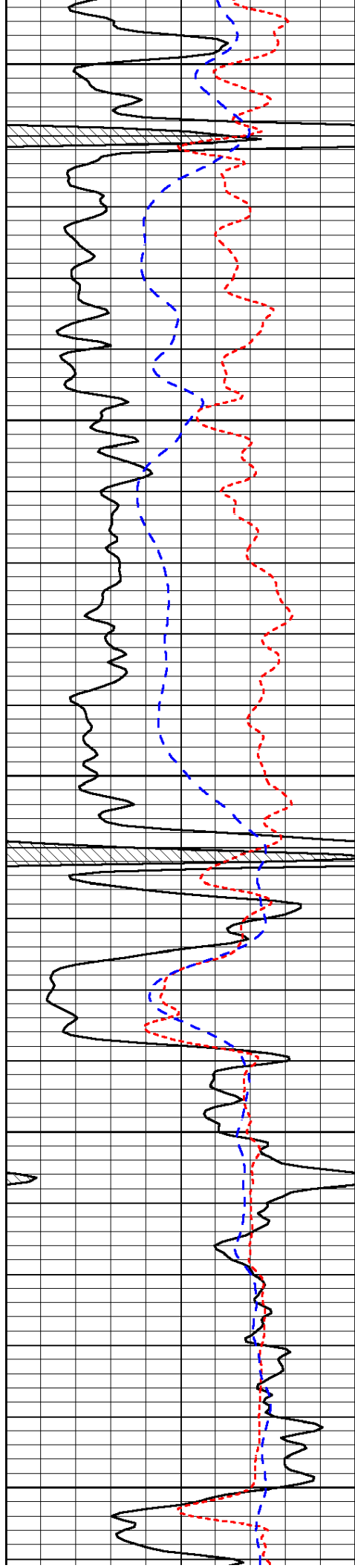
2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100











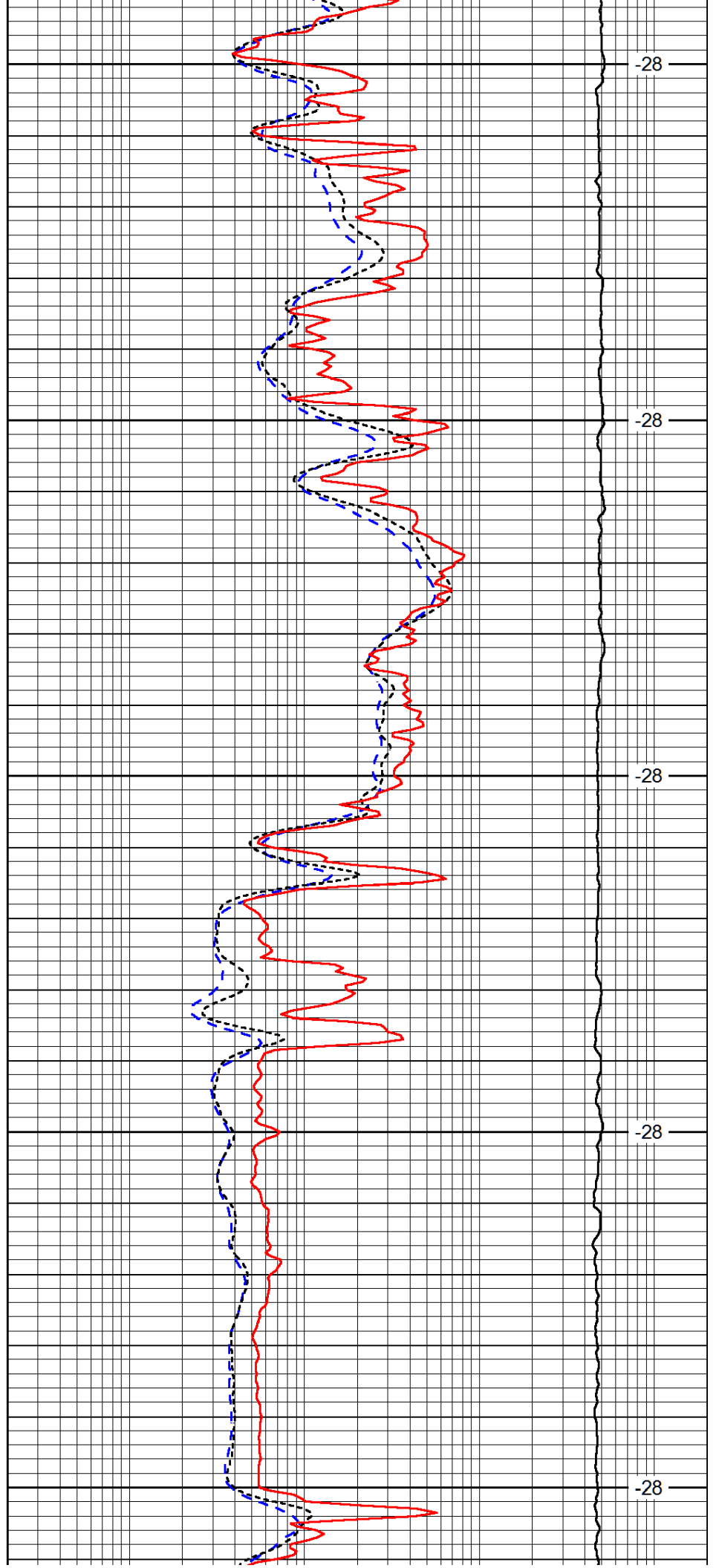
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3300

3350

3400

3450



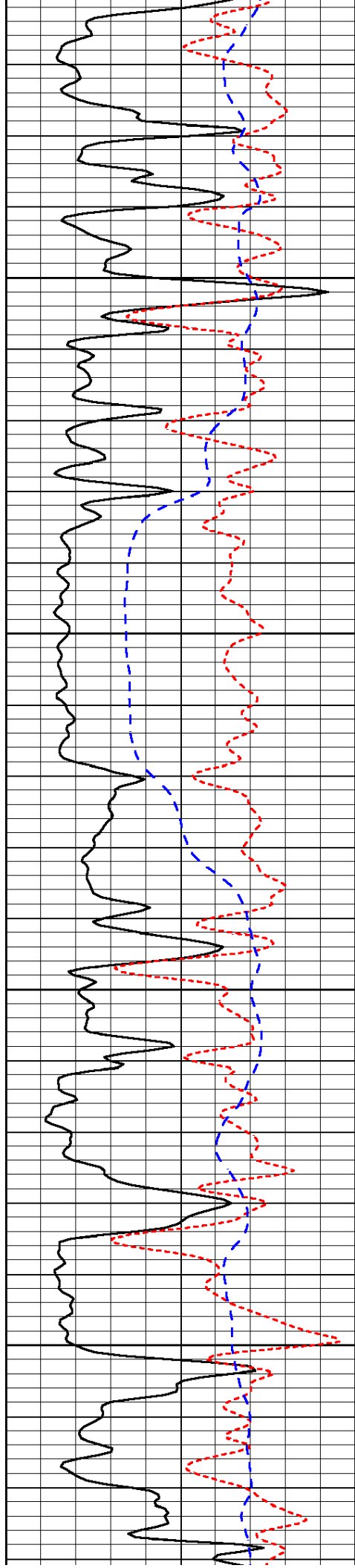
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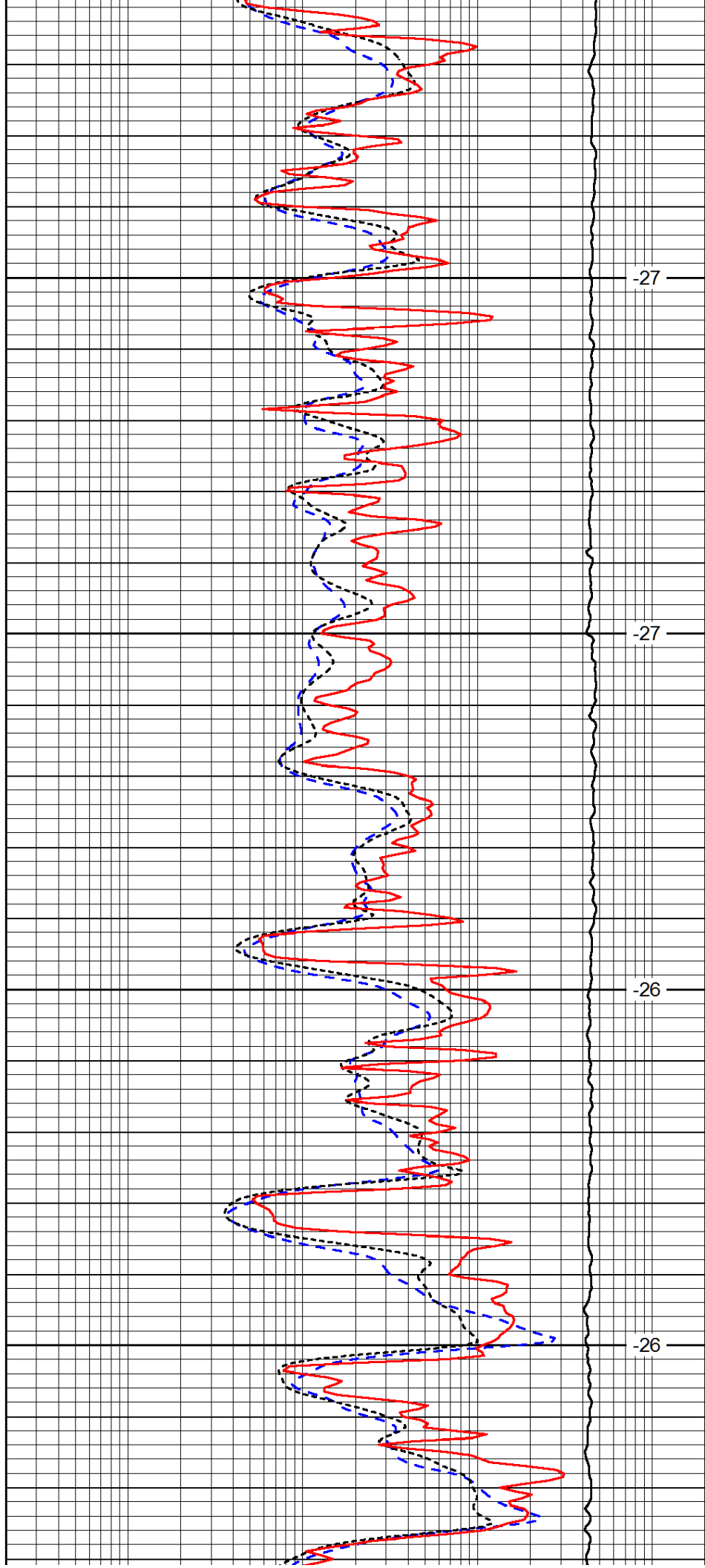


3500

3550

3600

3650

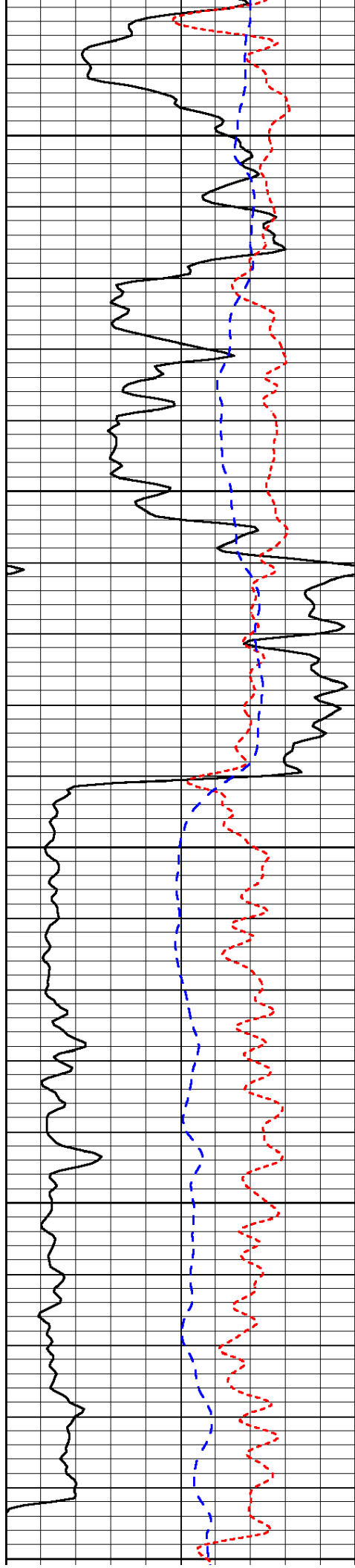


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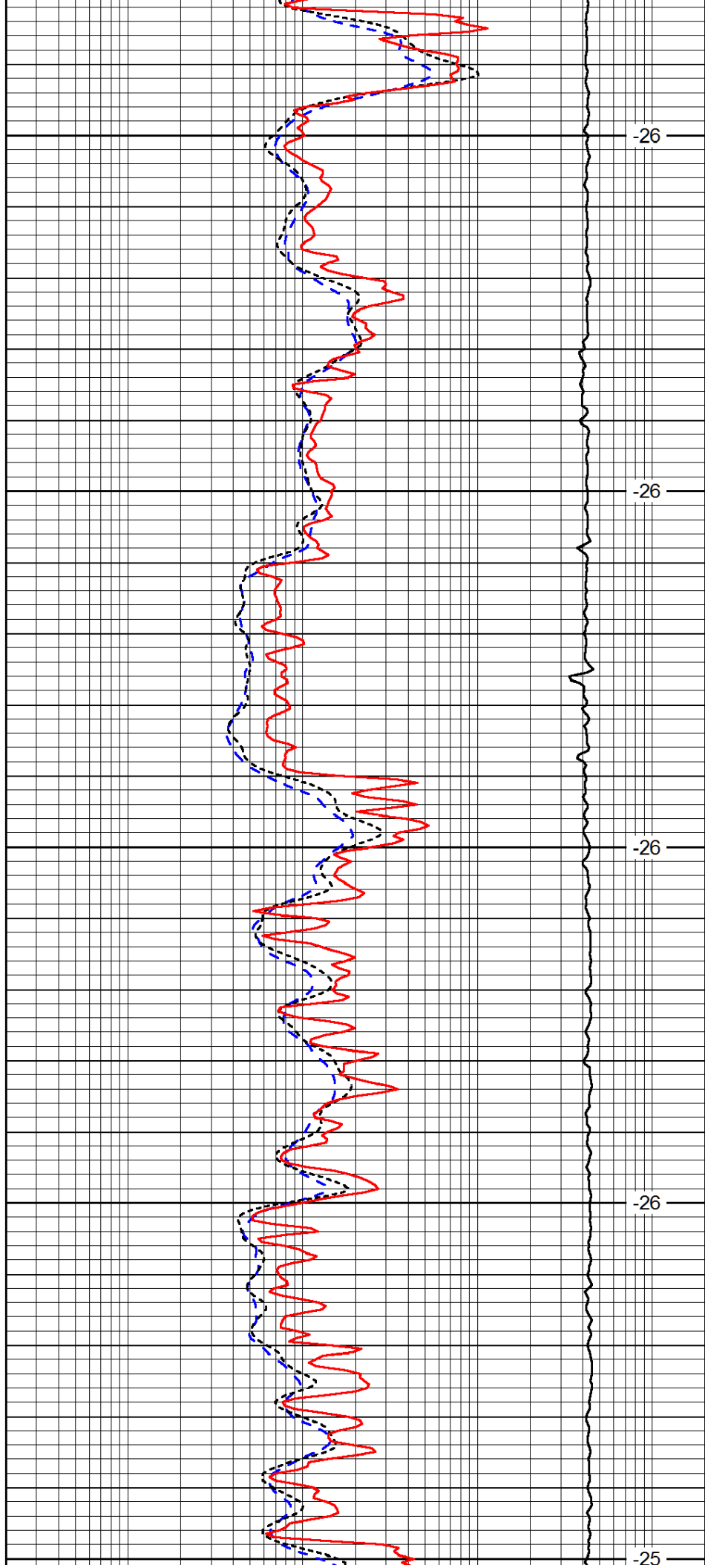
3700

3750

3800

3850

3900



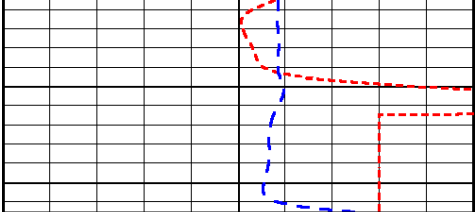
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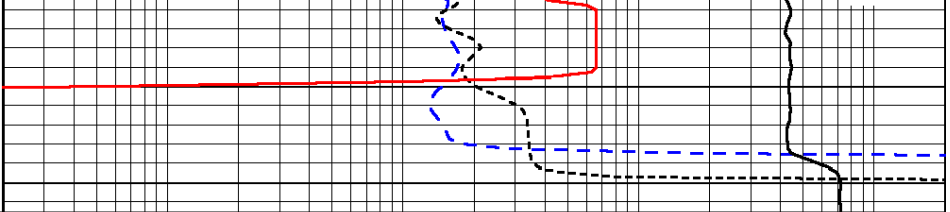
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0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)