



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.		
	Well Eberhardt #2-24		
	Field Chase-Silica		
	County Barton	State	Kansas
	Location SW NE SW NW 1930' FNL & 957' FWL	Other Services CNL/CDL MEI/BHCS	
15-009-25,846-00-00	Sec: 24	Twp: 19S	Rge: 11W
Permanent Datum	Ground Level	Elevation 1772	
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum	
Drilling Measured From	From Kelly Bushing	K.B. 1780 D.F. 1772 G.L. 1772	
Date	7/11/2013		
Run Number	One		
Depth Driller	3400		
Depth Logger	3401		
Bottom Logged Interval	3400		
Top Log Interval	300		
Casing Driller	8.625 @ 321		
Casing Logger	312		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7400		
Density / Viscosity	9.0 45		
pH / Fluid Loss	10.5 10.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.25 @ 76		
Rmf @ Meas. Temp	0.19 @ 76		
Rmc @ Meas. Temp	0.34 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.17 @ 110		
Operating Rig Time	4 1/2 Hours		
Max Rec. Temp. F	110		
Equipment Number	15		
Location	Hays		
Recorded By	D. Kerr		
Witnessed By	Wyatt Urban		

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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 Pioneer Energy Services
www.pioneerres.com
785 625 3858

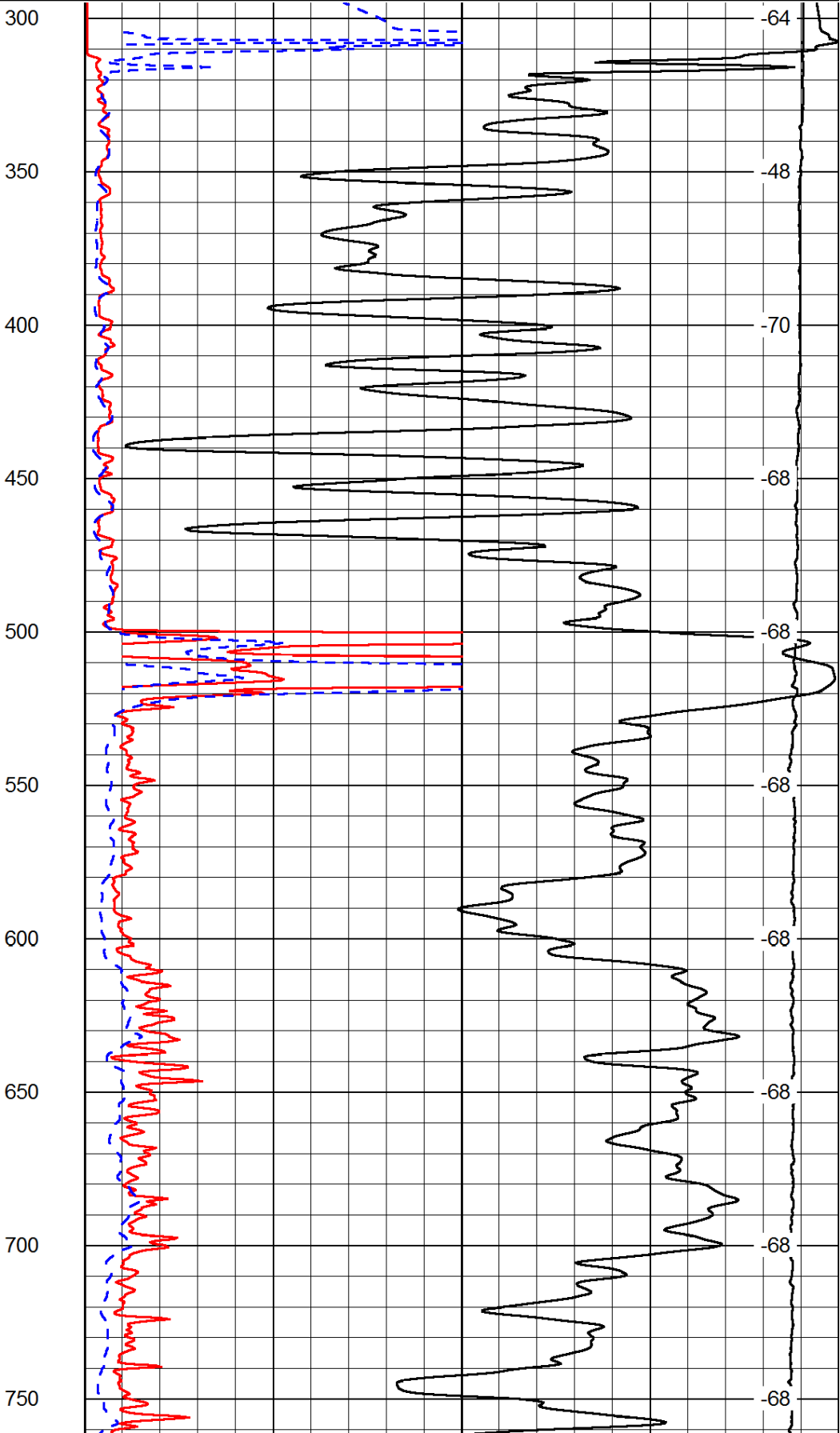
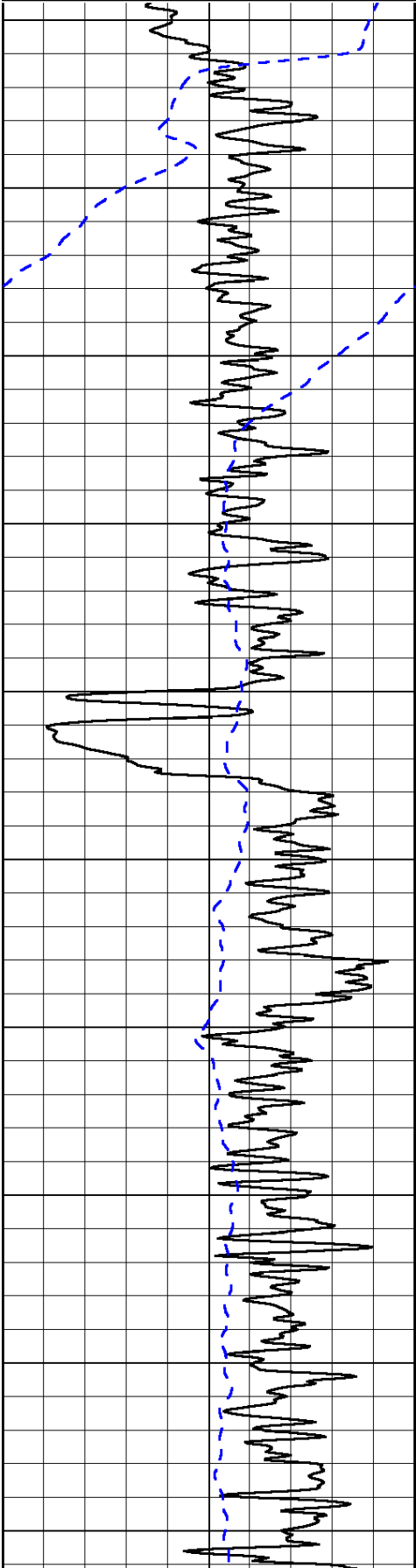
Ellinwood KS, 1 North on Hirsh RD,
4 East to 150 RD, 1/2 North, East Into

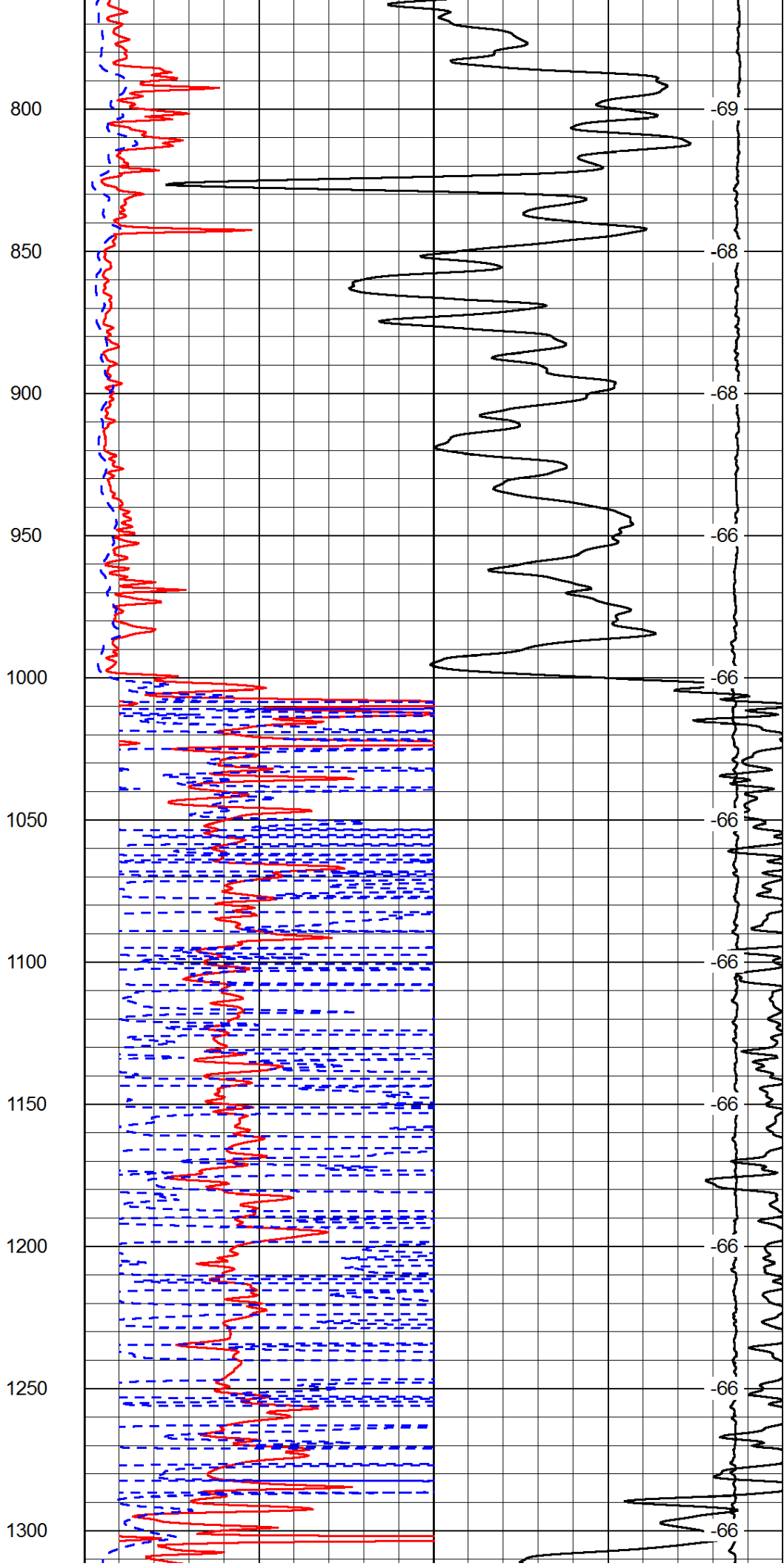
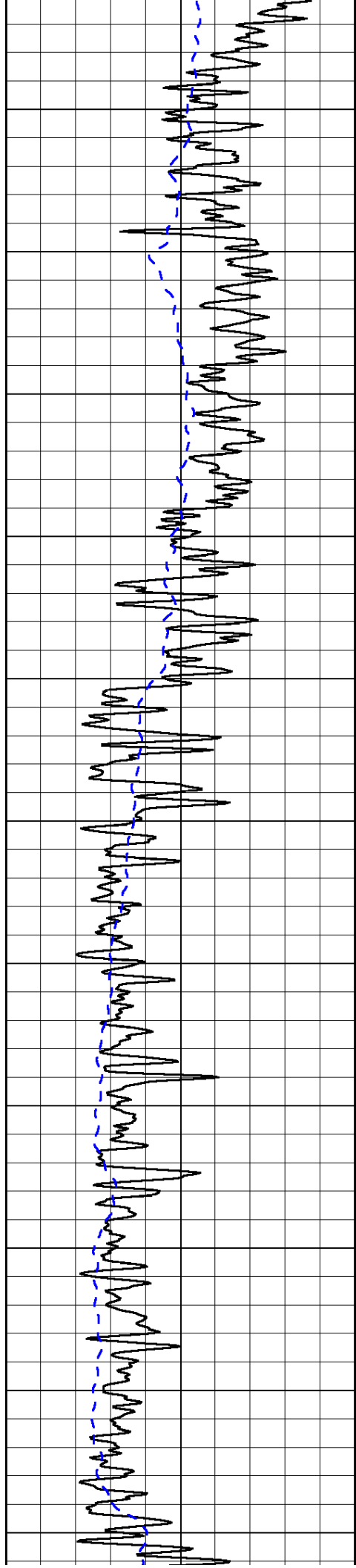
Database File: c:\warrior\data\amwar_eberhardt #2-24\amwarrior_eberhardt_2_24hd.db
Dataset Pathname: DIL\awstk
Presentation Format: dil2in
Dataset Creation: Thu Jul 11 09:07:23 2013
Charted by: Depth in Feet scaled 1:600

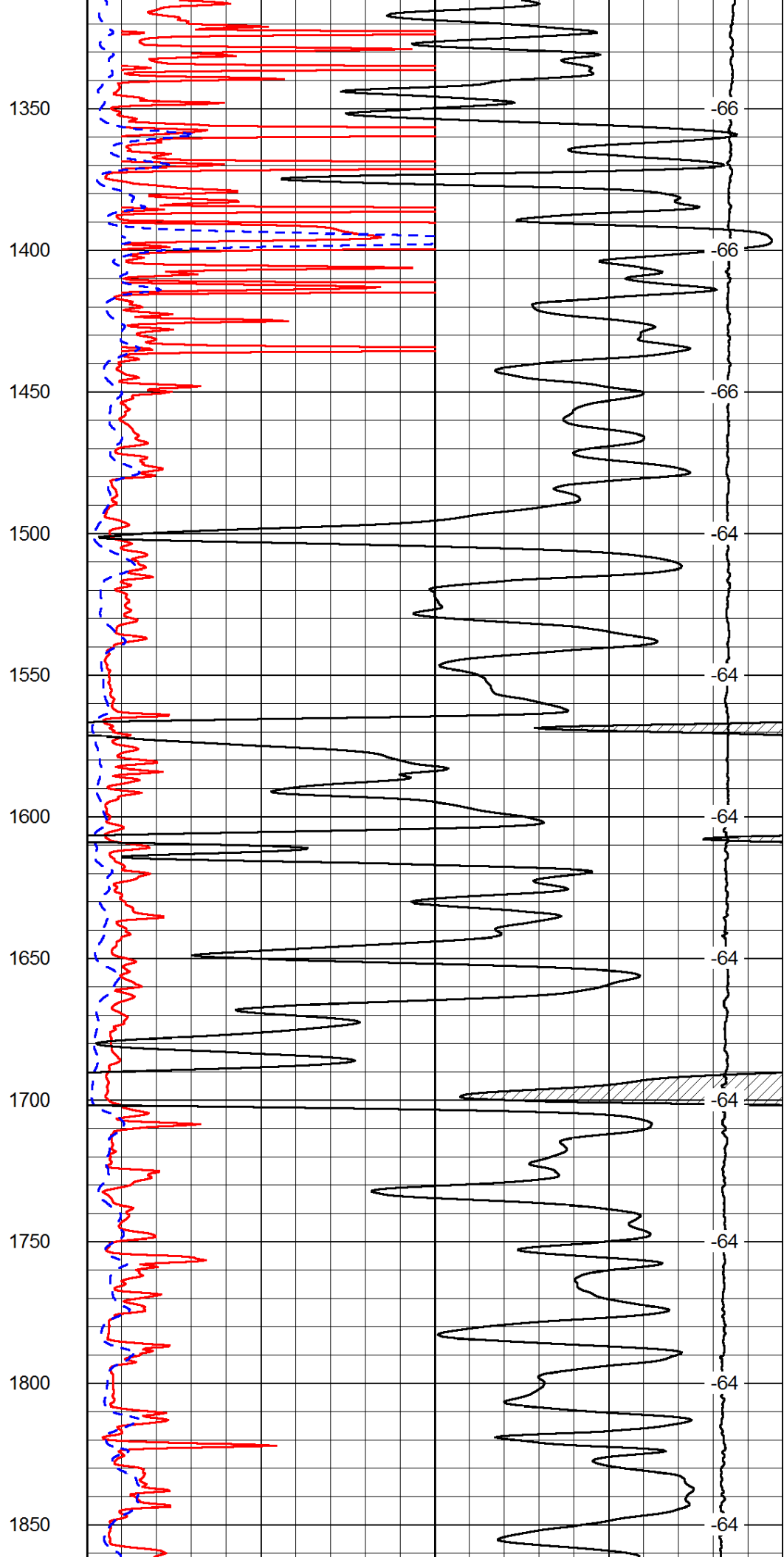
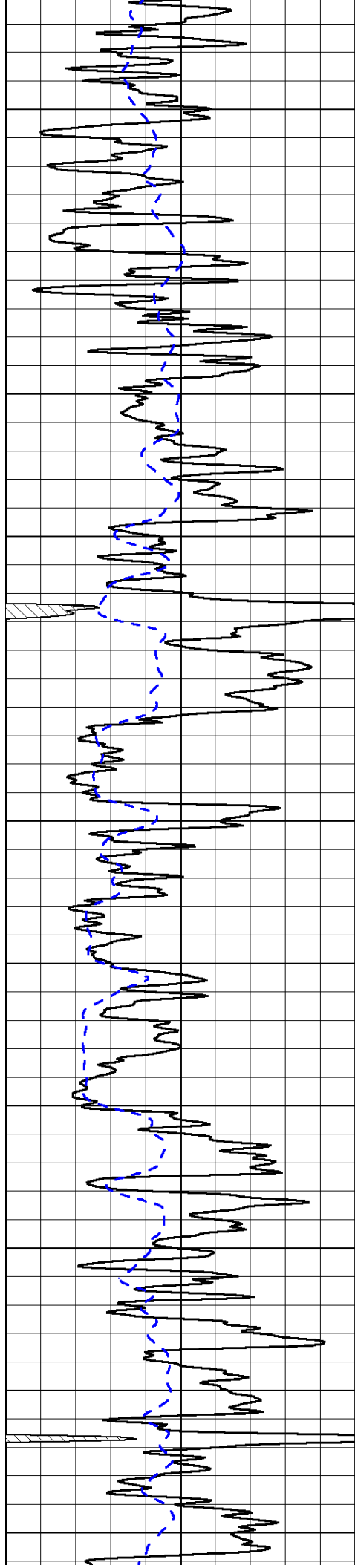
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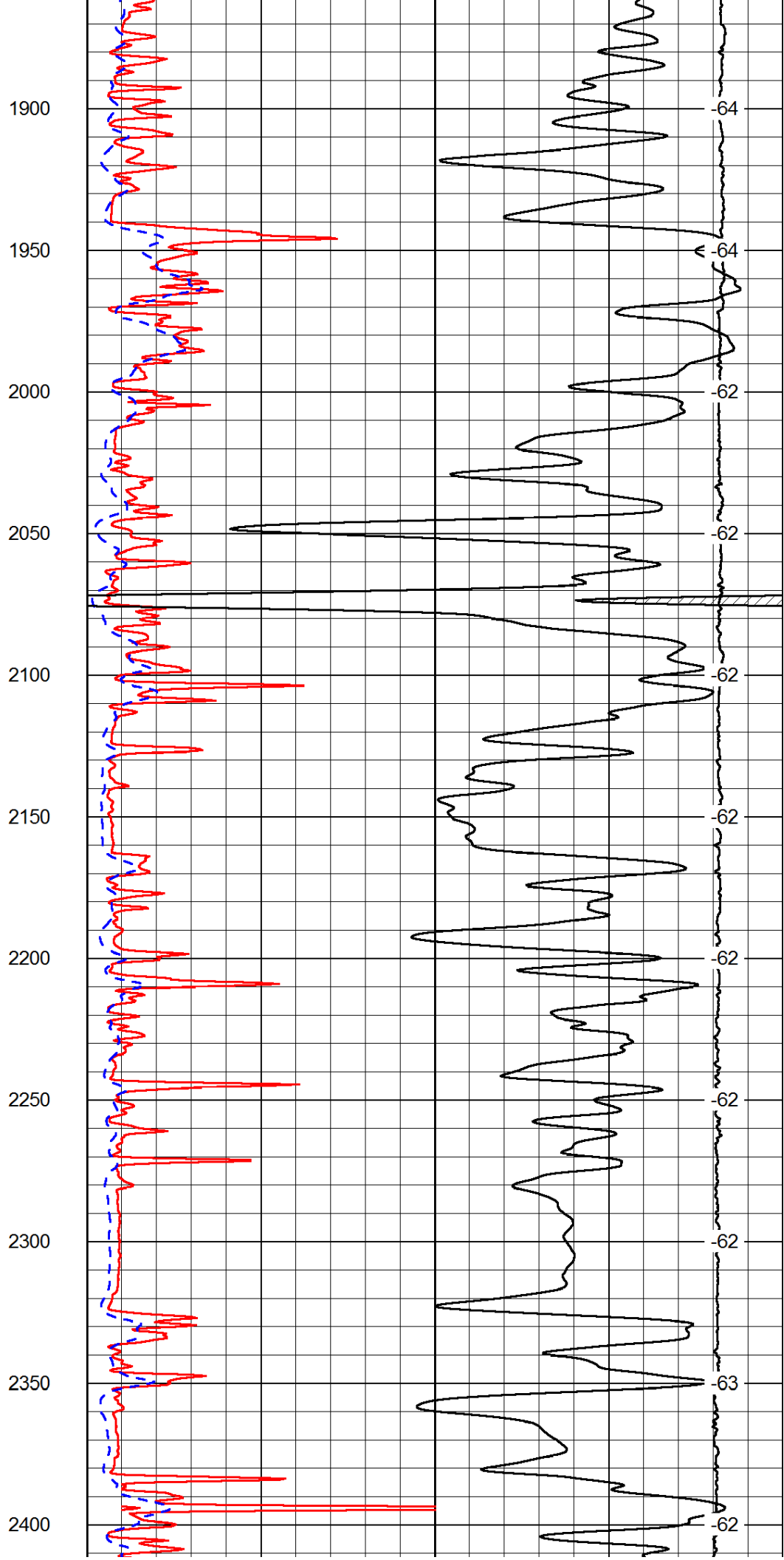
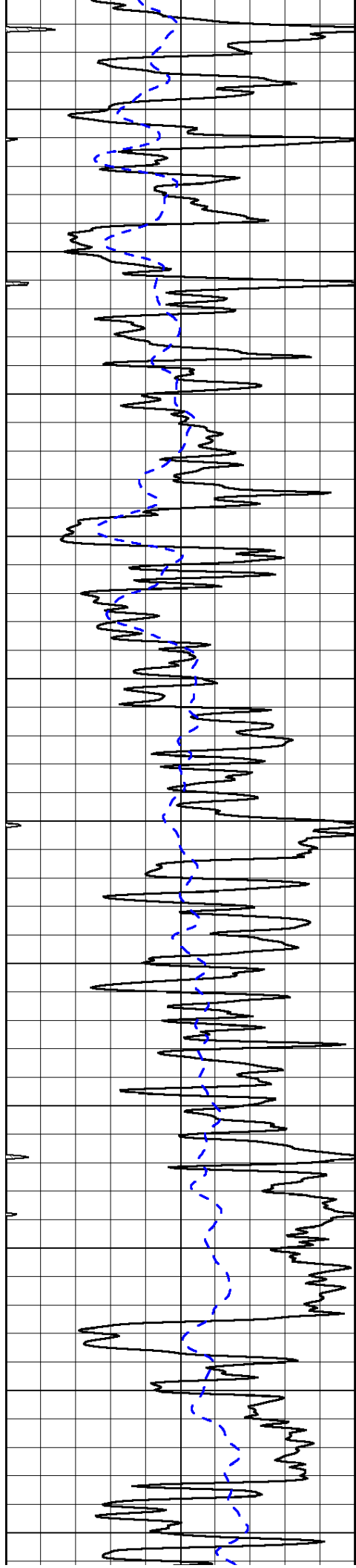
0	Gamma Ray	150
-200	SP (mV)	0

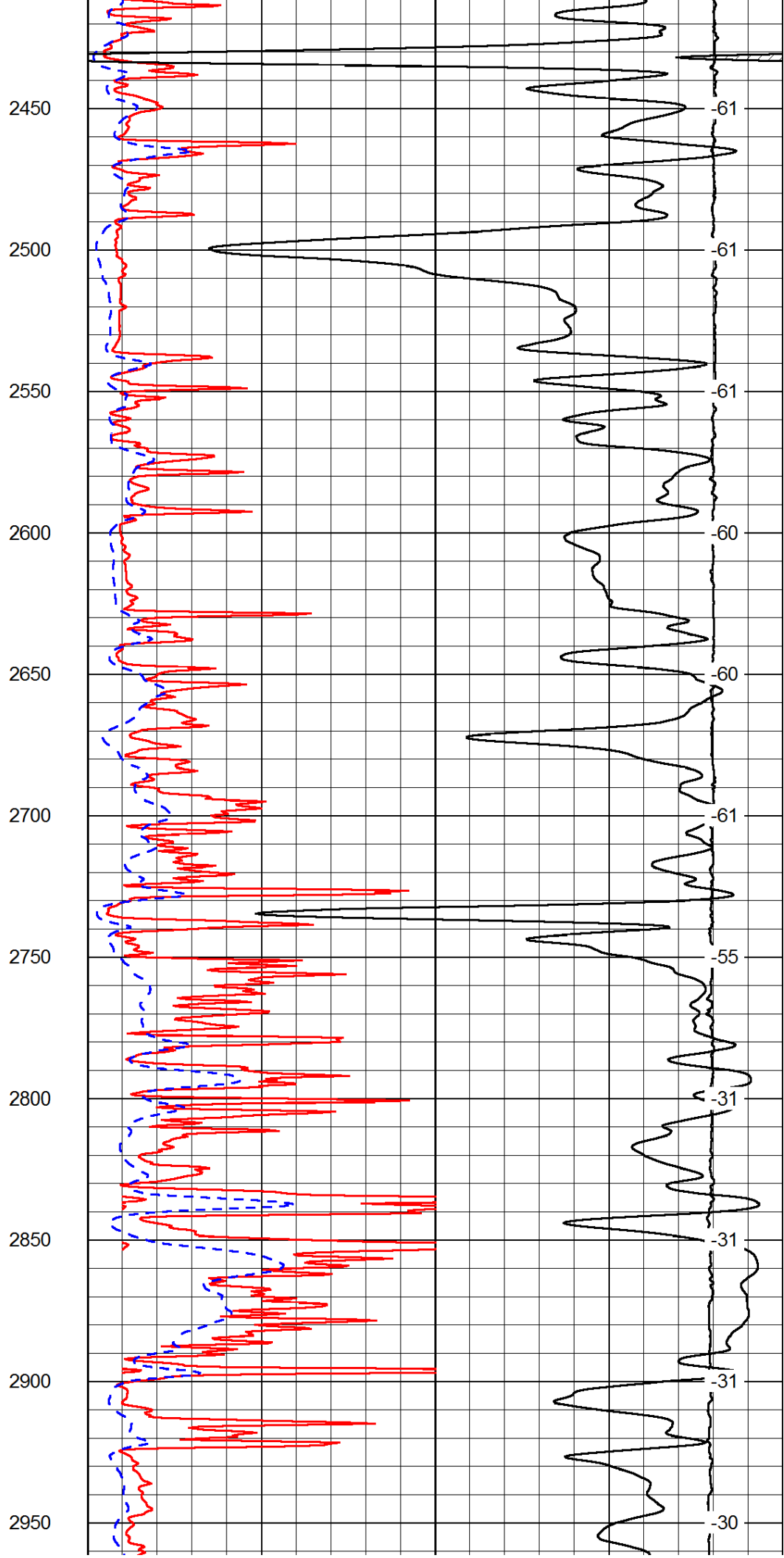
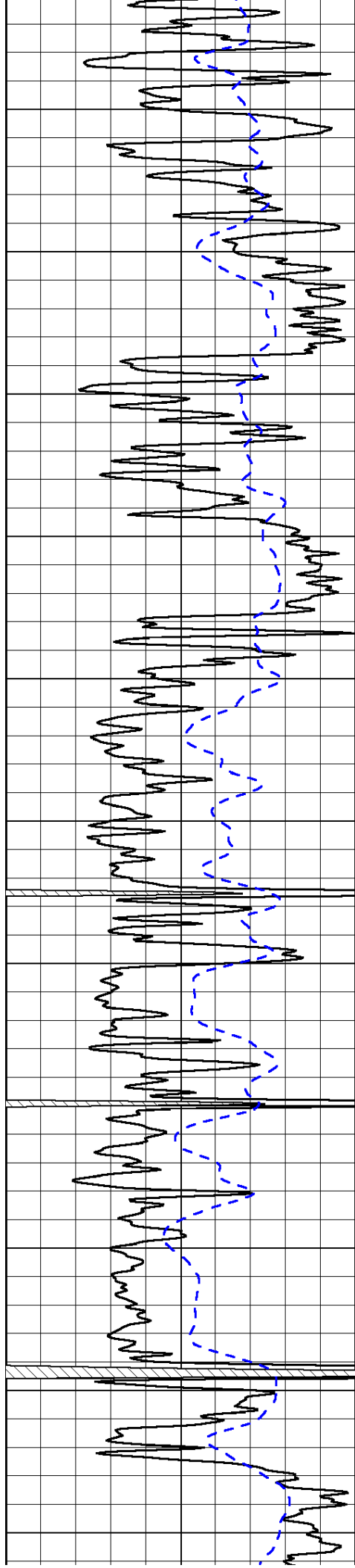
0 Shallow Resistivity 50			LSPD
0 Deep Resistivity 50			
1000 Conductivity			0
15000 Line Tension			0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

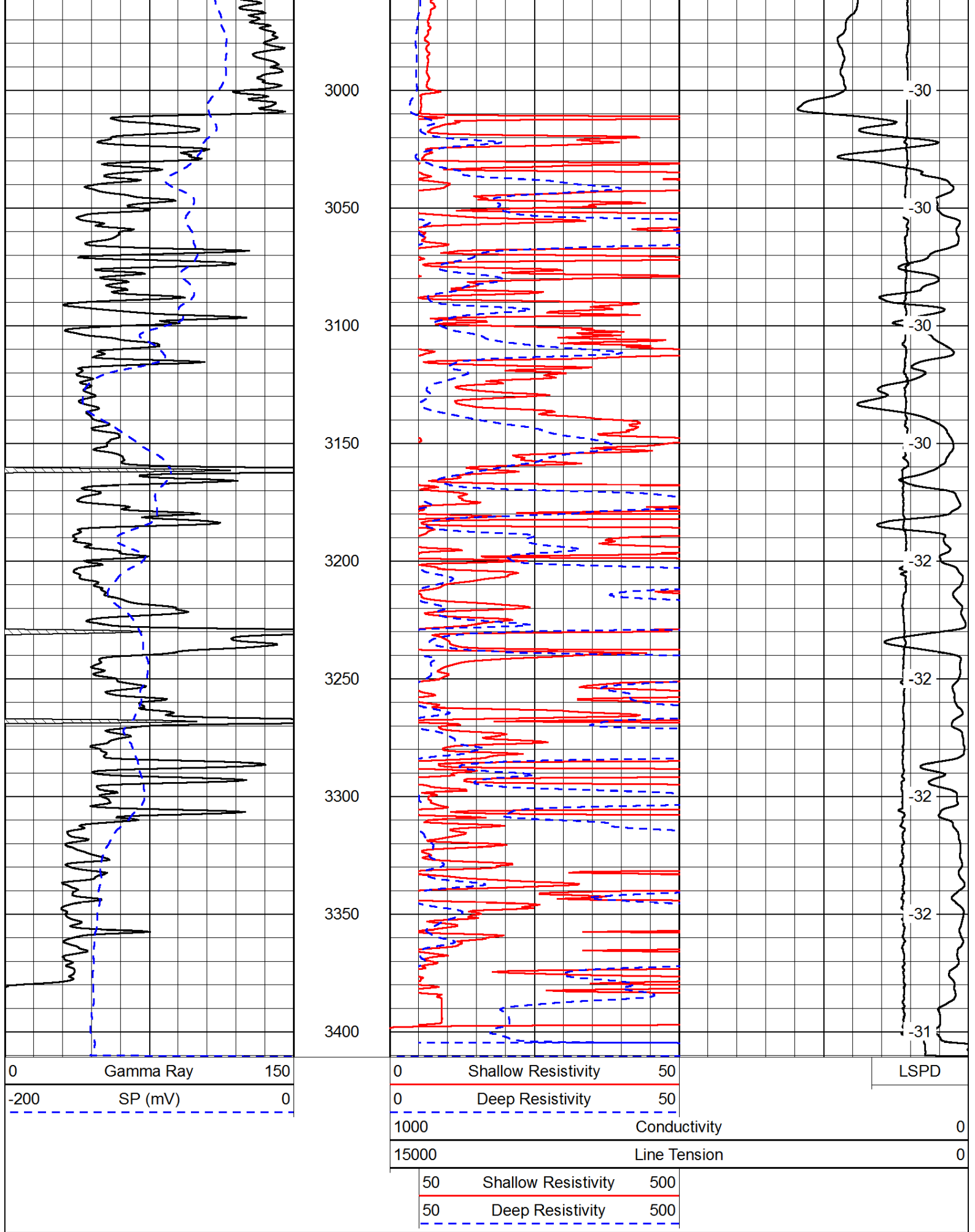






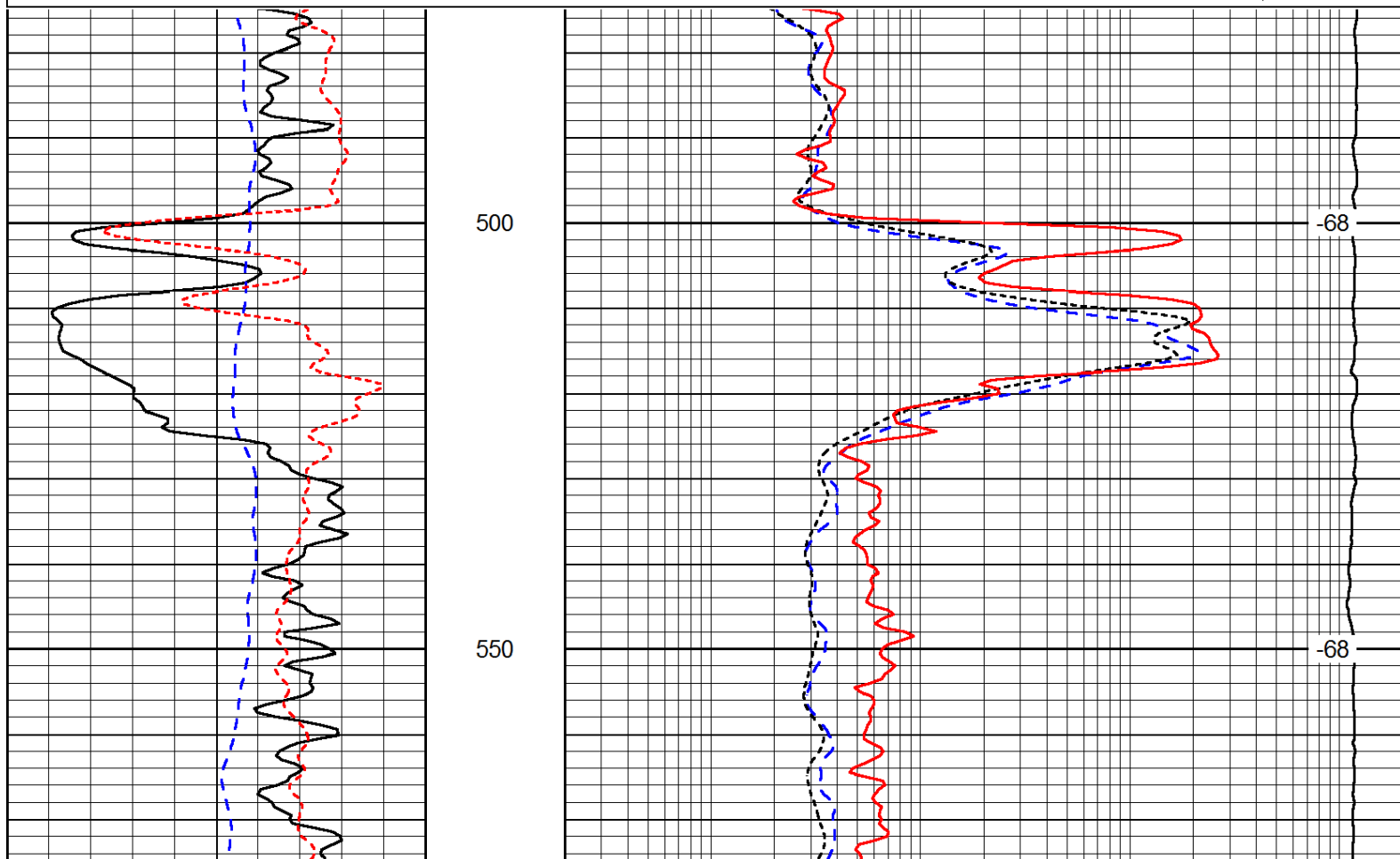






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Presentation Format: dil
Dataset Creation: Thu Jul 11 09:07:23 2013
Charted by: Depth in Feet scaled 1:240

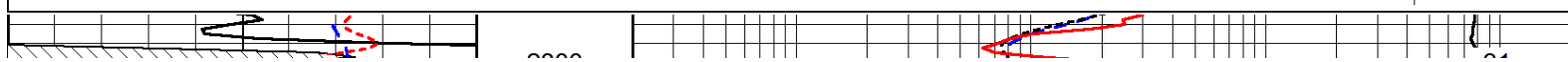
0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD

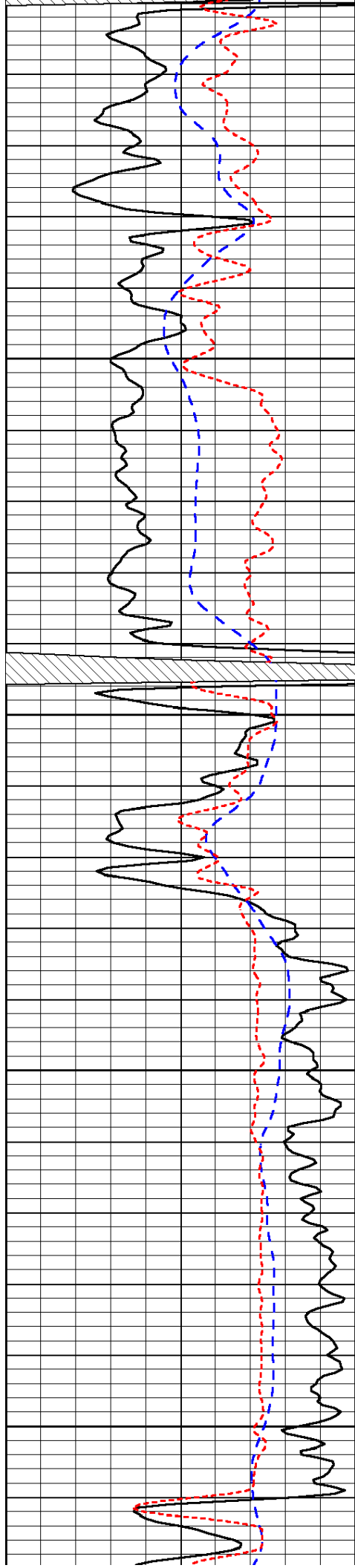


0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD

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0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD





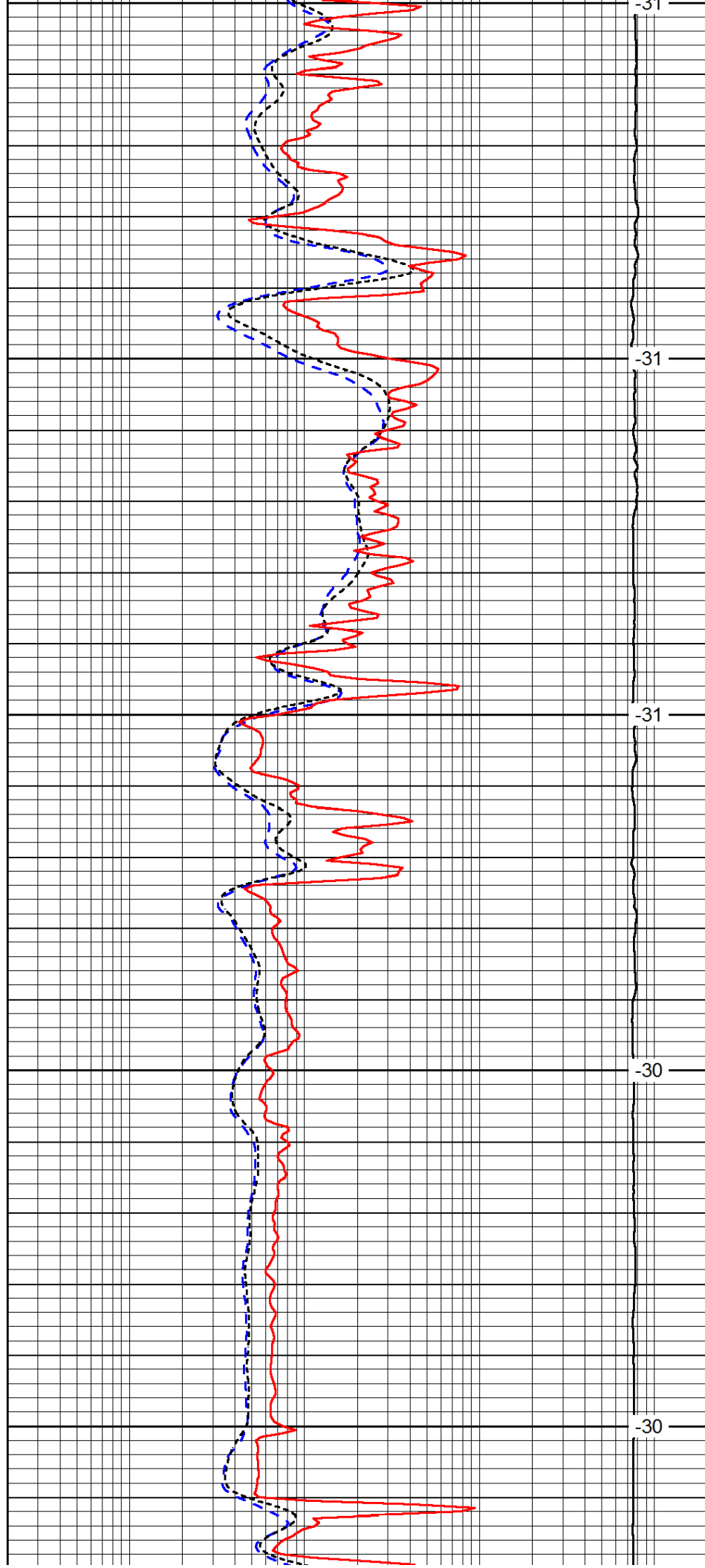
2800

2850

2900

2950

3000



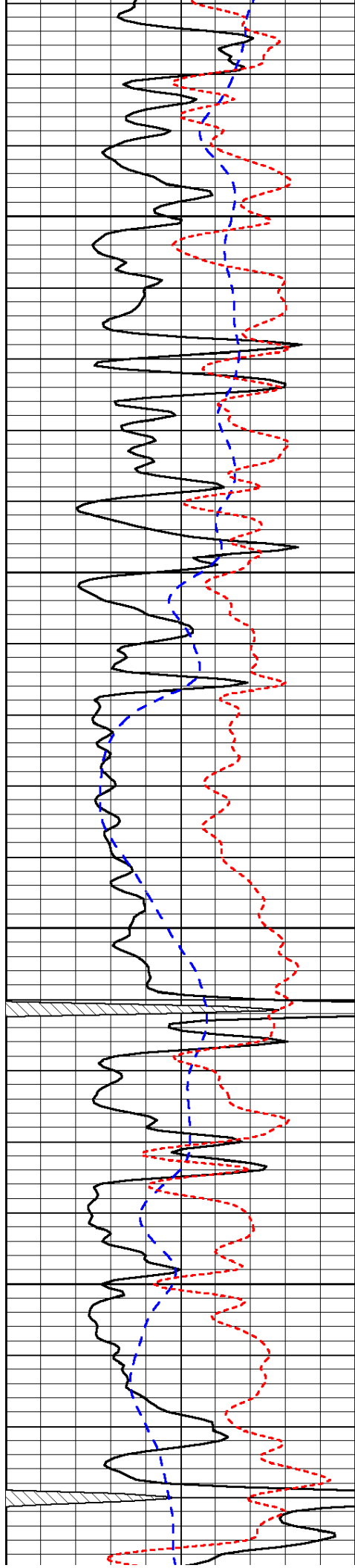
-31

-31

-31

-30

-30

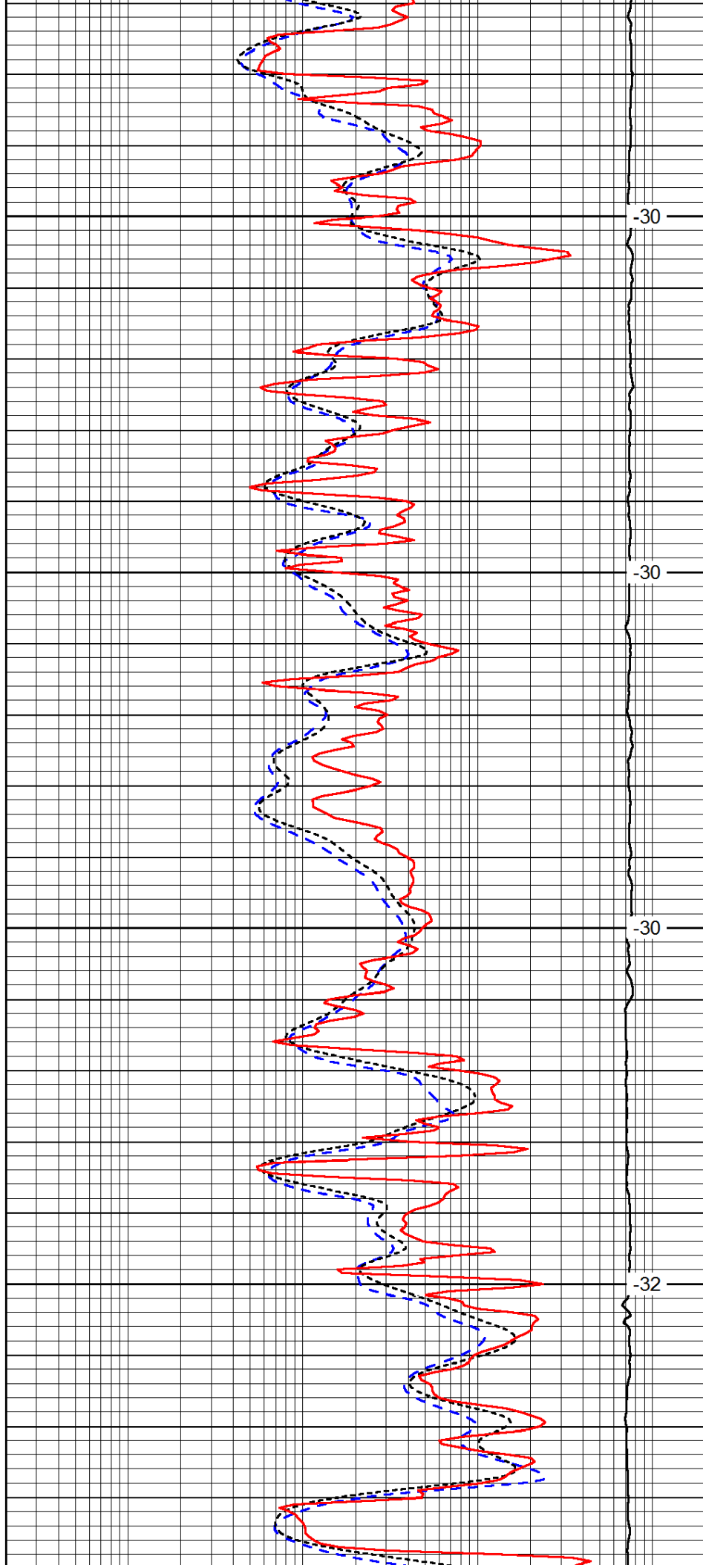


3050

3100

3150

3200

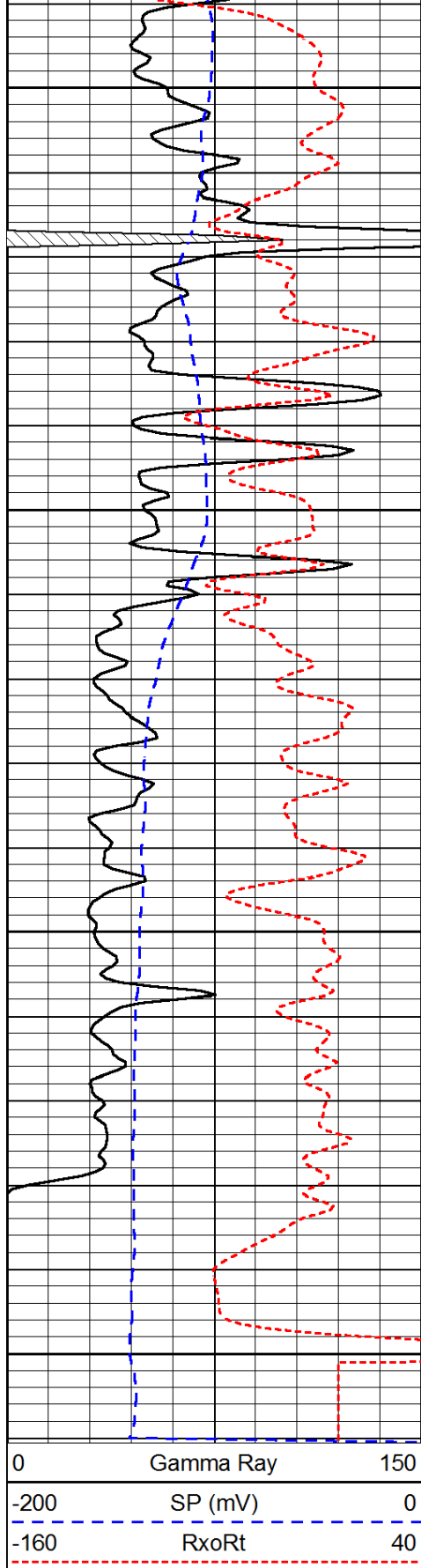


-30

-30

-30

-32



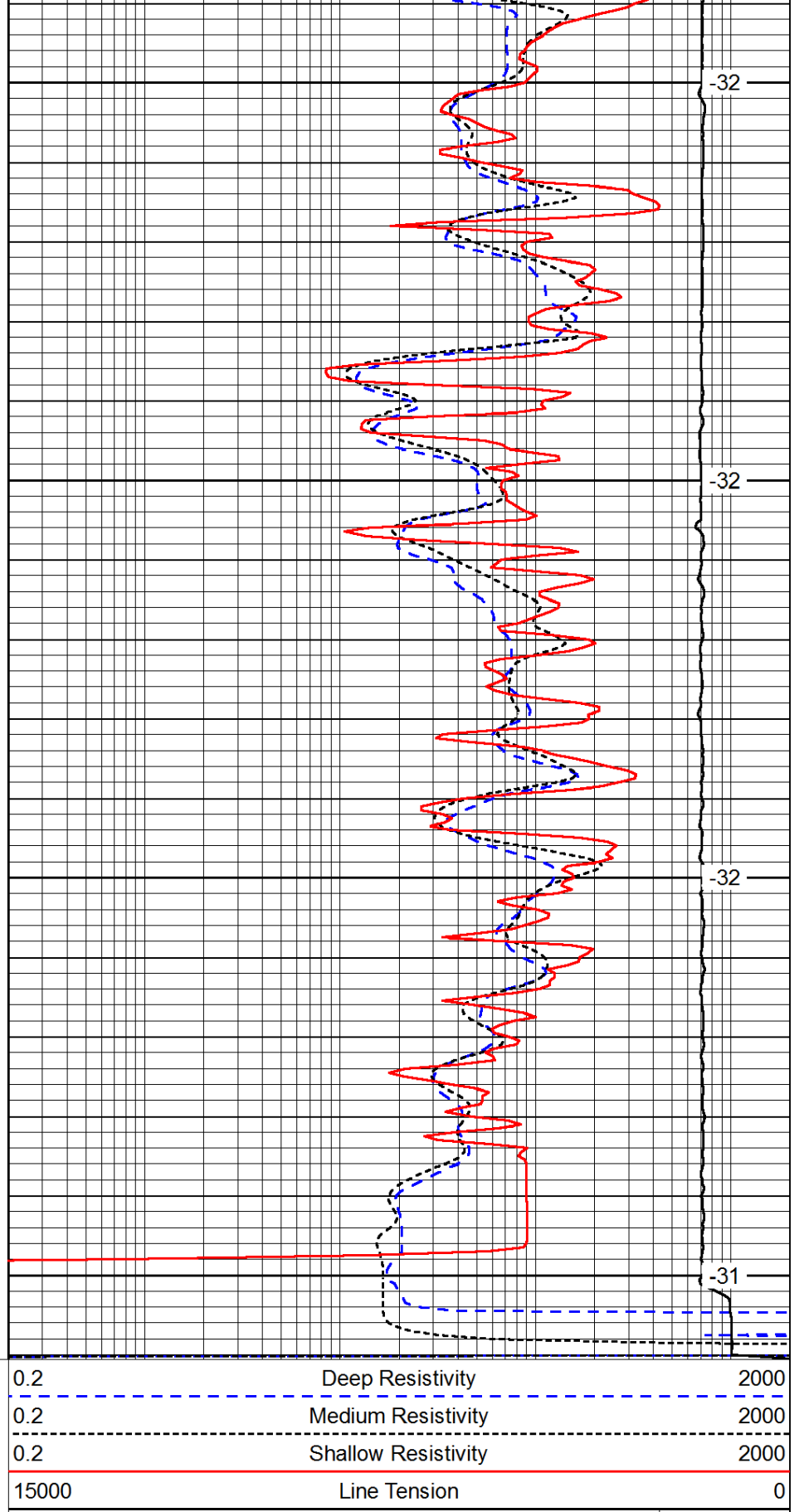
3250

3300

3350

3400

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



3250

3300

3350

3400

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD