



Dual Induction Log

Pioneer Energy Services

API No.	Company RJM Company		
	Well Kevin Wirth #1		
	Field Peach		
	County Barton	State	Kansas
Location		1200' FNL & 2000' FEL	
Sec: 25		Twp: 16S	Rge: 14W
Permanent Datum		Ground Level	Elevation 1967
Log Measured From		Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From		From Kelly Bushing	K.B. 1977 D.F. 1967 G.L. 1967
Date	1/23/2014		
Run Number	One		
Depth Driller	3497		
Depth Logger	3493		
Bottom Logged Interval	3492		
Top Log Interval	450		
Casing Driller	8.625 @ 453		
Casing Logger	454		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5,000		
Density / Viscosity	9.3 48		
pH / Fluid Loss	9.5 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	.18 @ 43		
Rmf @ Meas. Temp	.14 @ 43		
Rmc @ Meas. Temp	.24 @ 43		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.07 @ 111		
Operating Rig Time	4 1/2 Hours		
Max Rec. Temp. F	111		
Equipment Number	108		
Location	Hays		
Recorded By	J. Henrickson		
Witnessed By	Clint Musgrove		

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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.

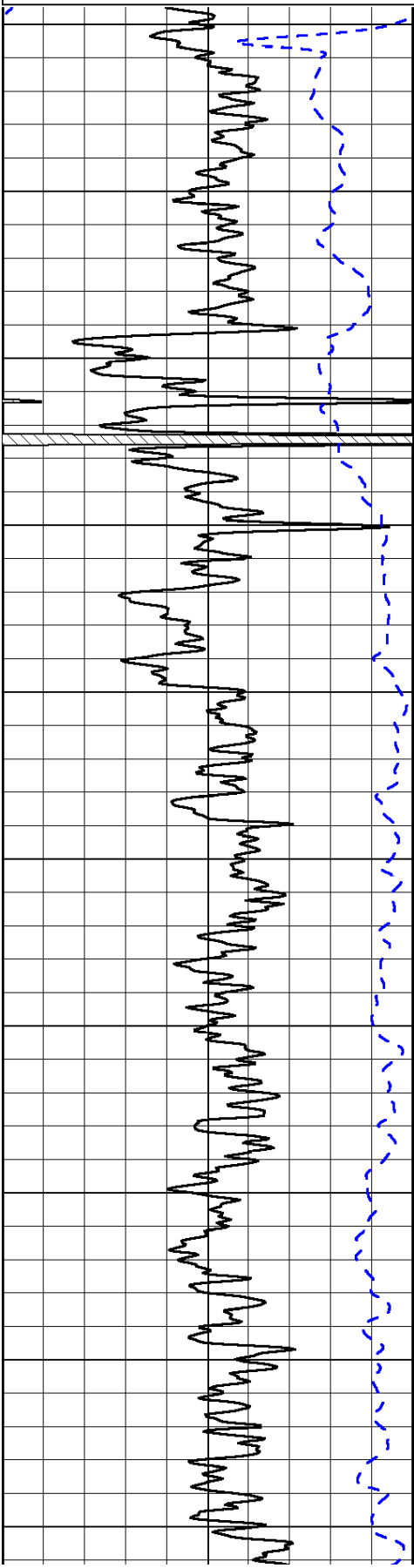
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

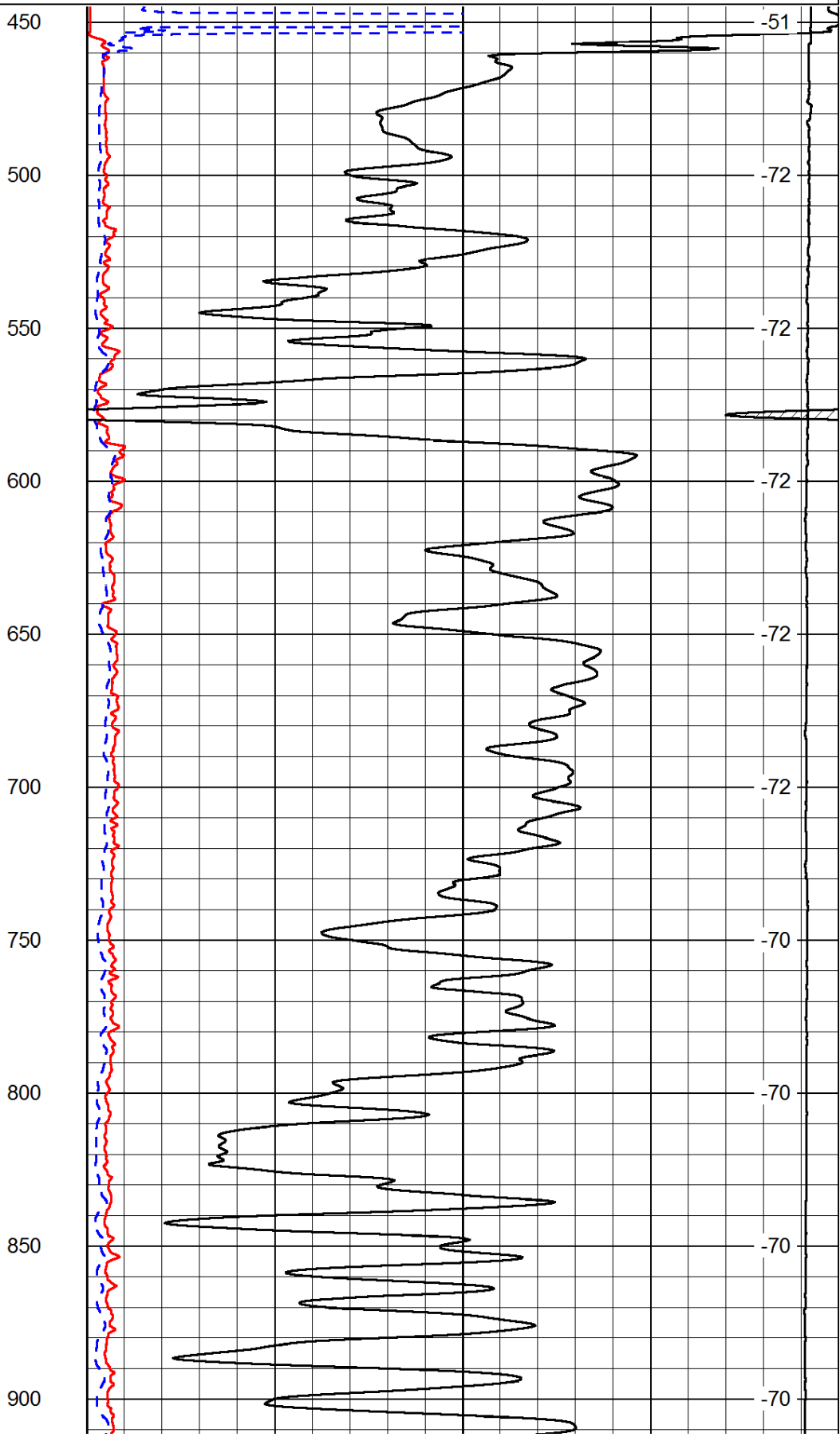
Susank Kansas
2.3 West, South Into

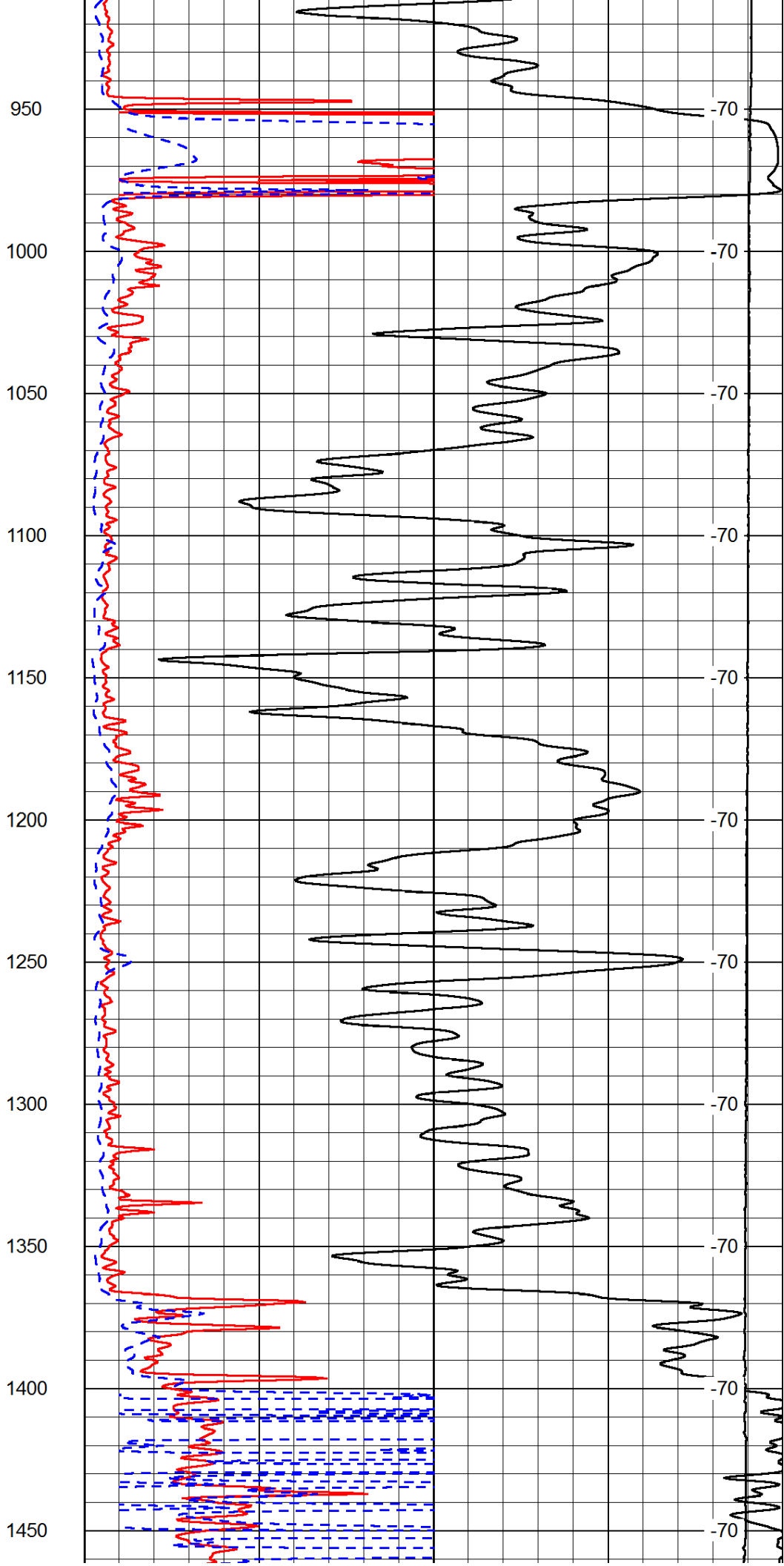
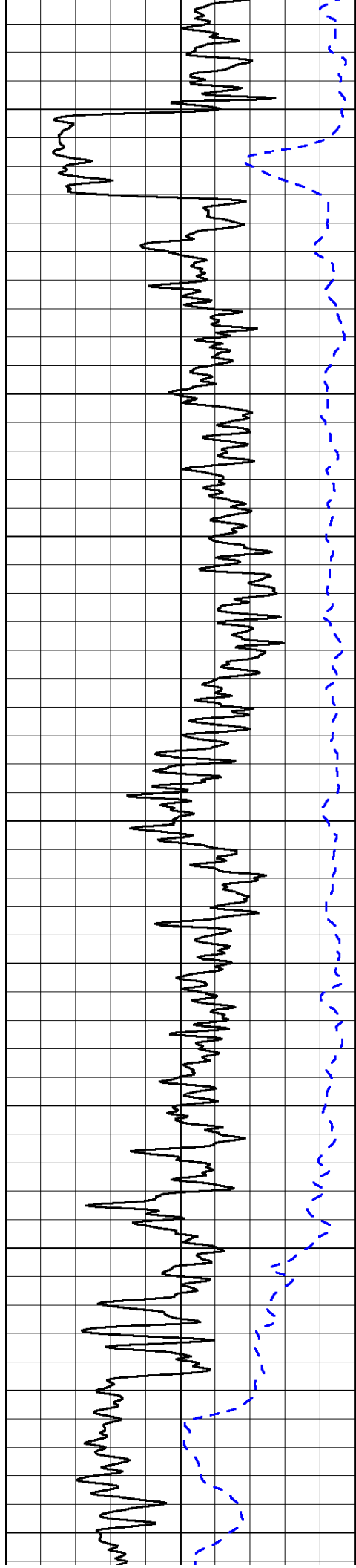
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Dataset Pathname: DIL\rjmstk
Presentation Format: dil2in
Dataset Creation: Thu Jan 23 11:45:07 2014
Charted by: Depth in Feet scaled 1:600

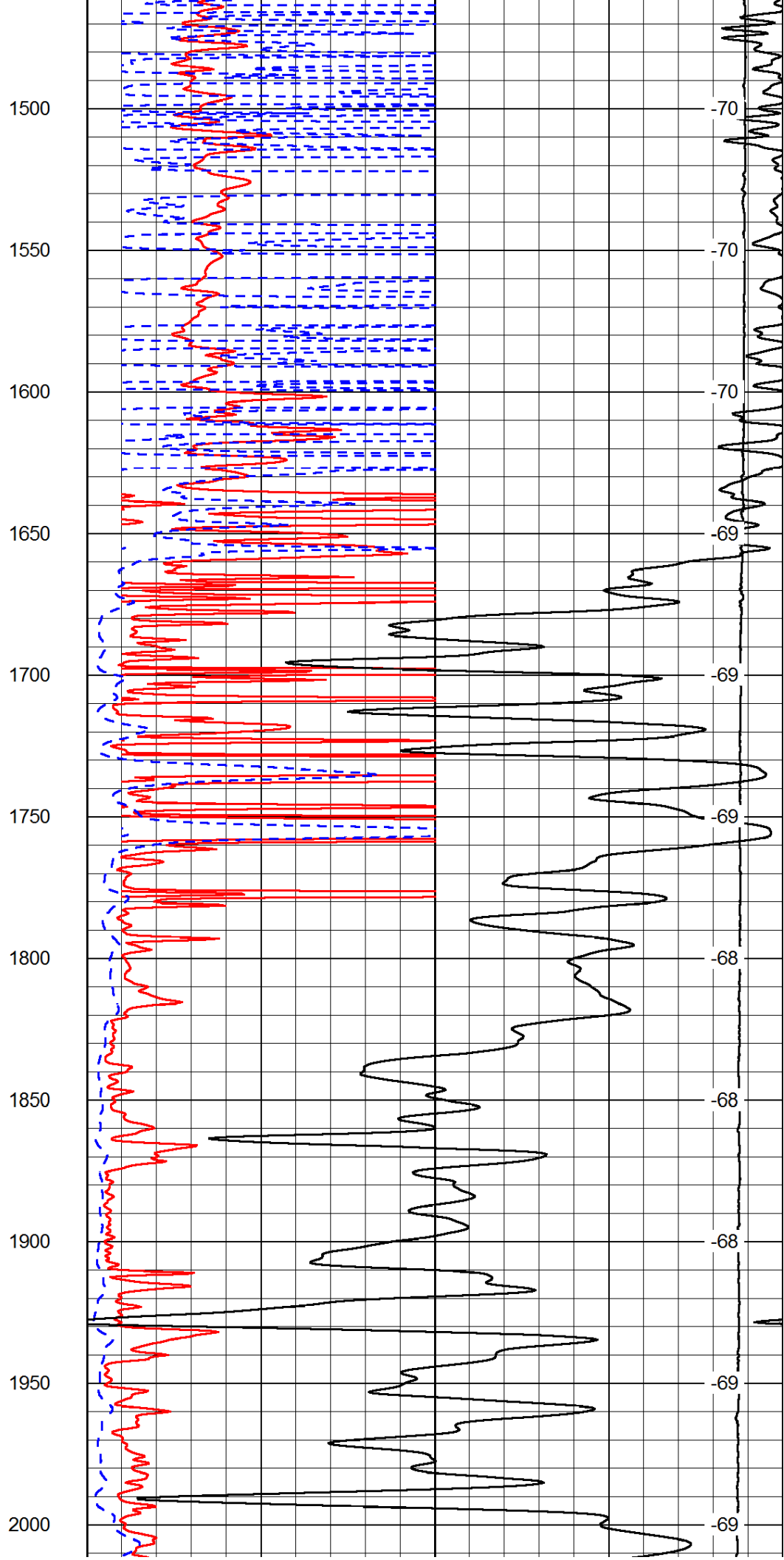
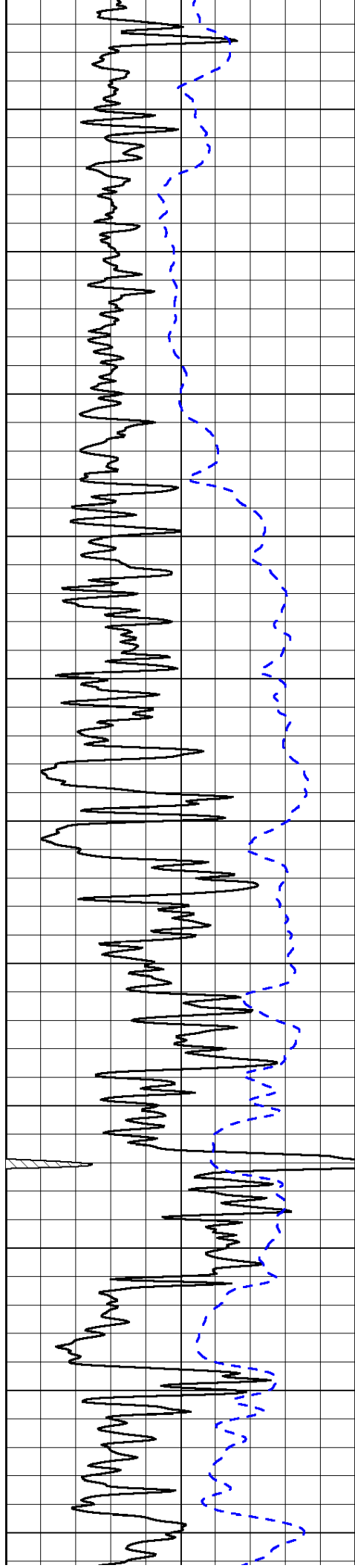
0	Gamma Ray	150
-200	SP (mV)	0

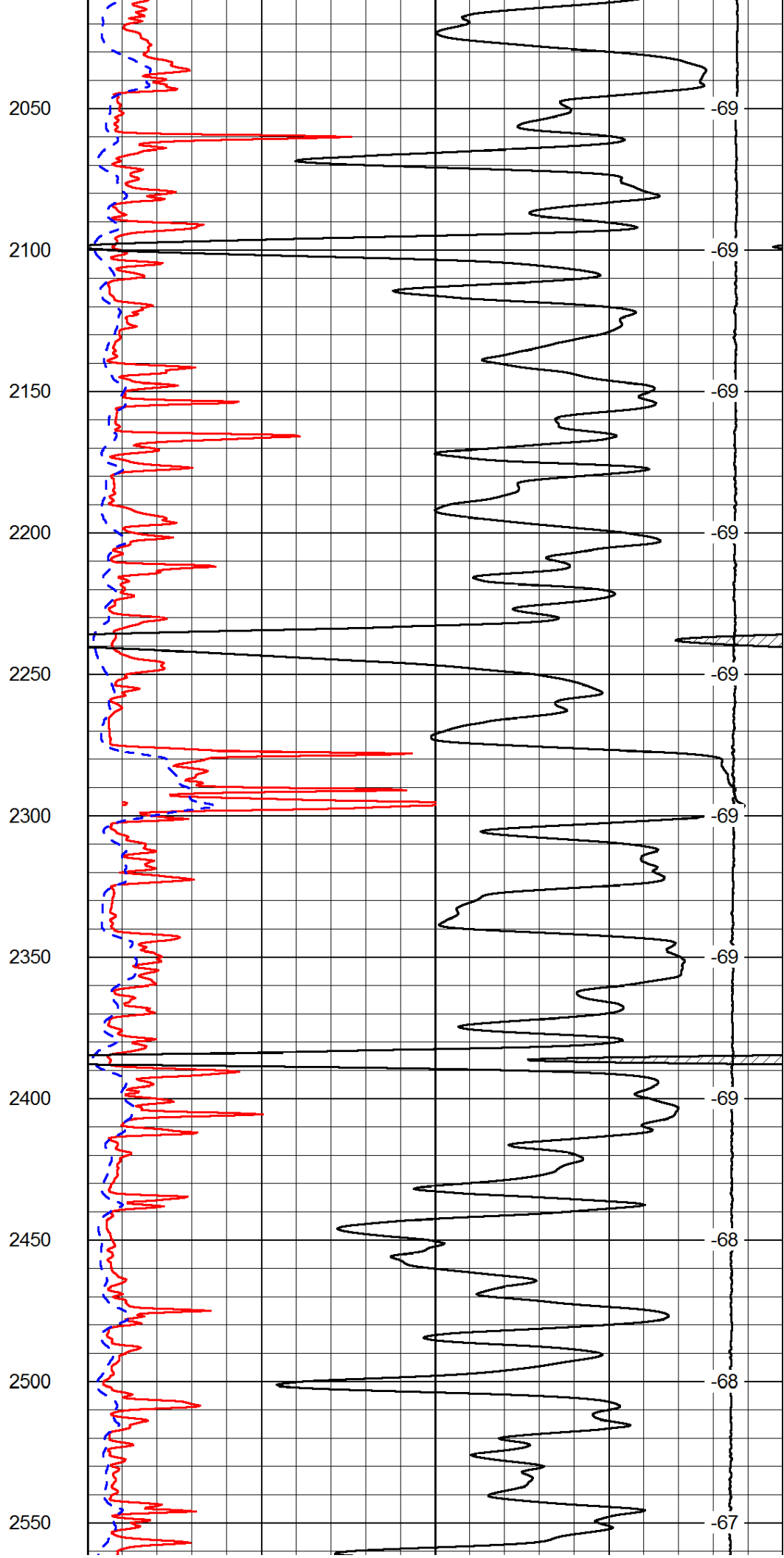
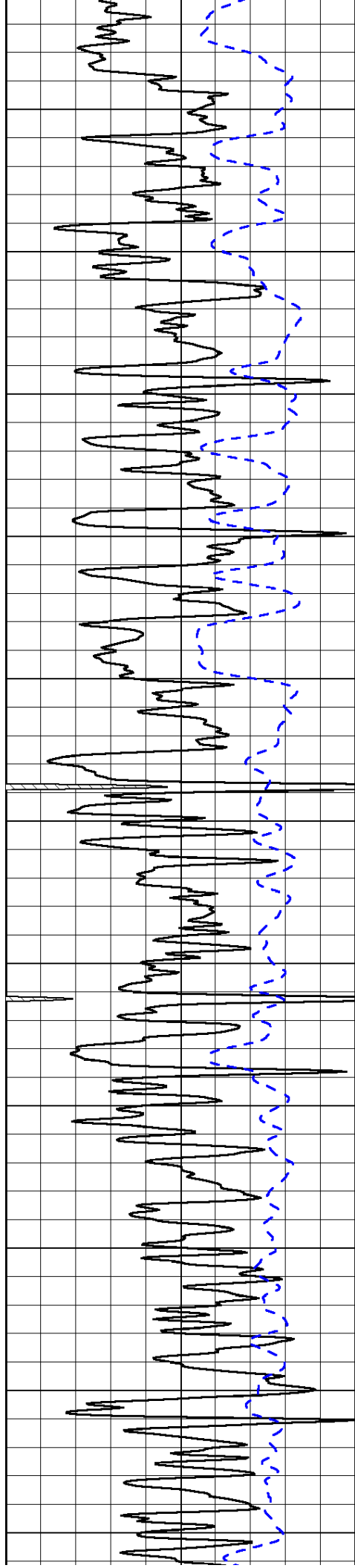


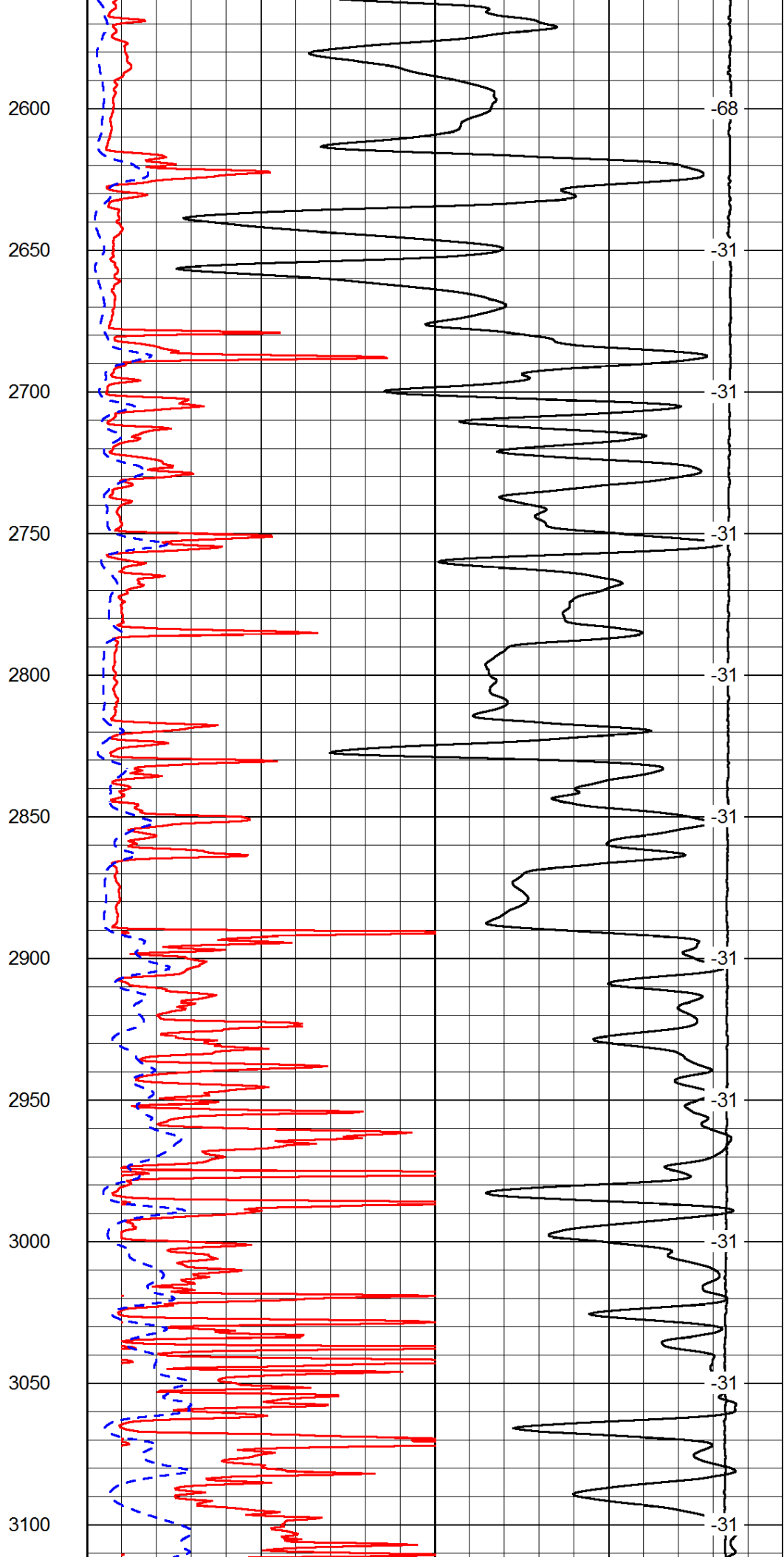
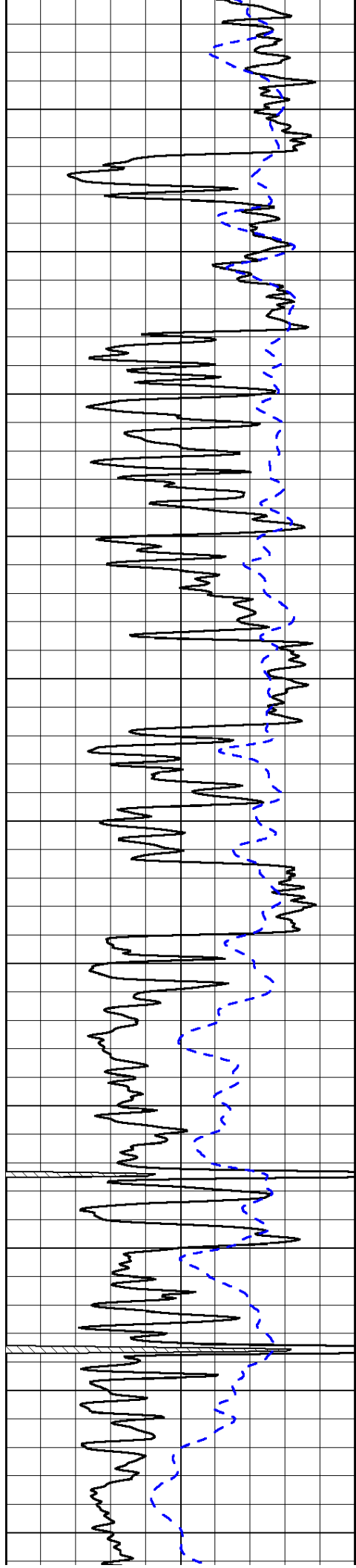
0 Shallow Resistivity 50			LSPD
0 Deep Resistivity 50			
1000 Conductivity			0
15000 Line Tension			0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

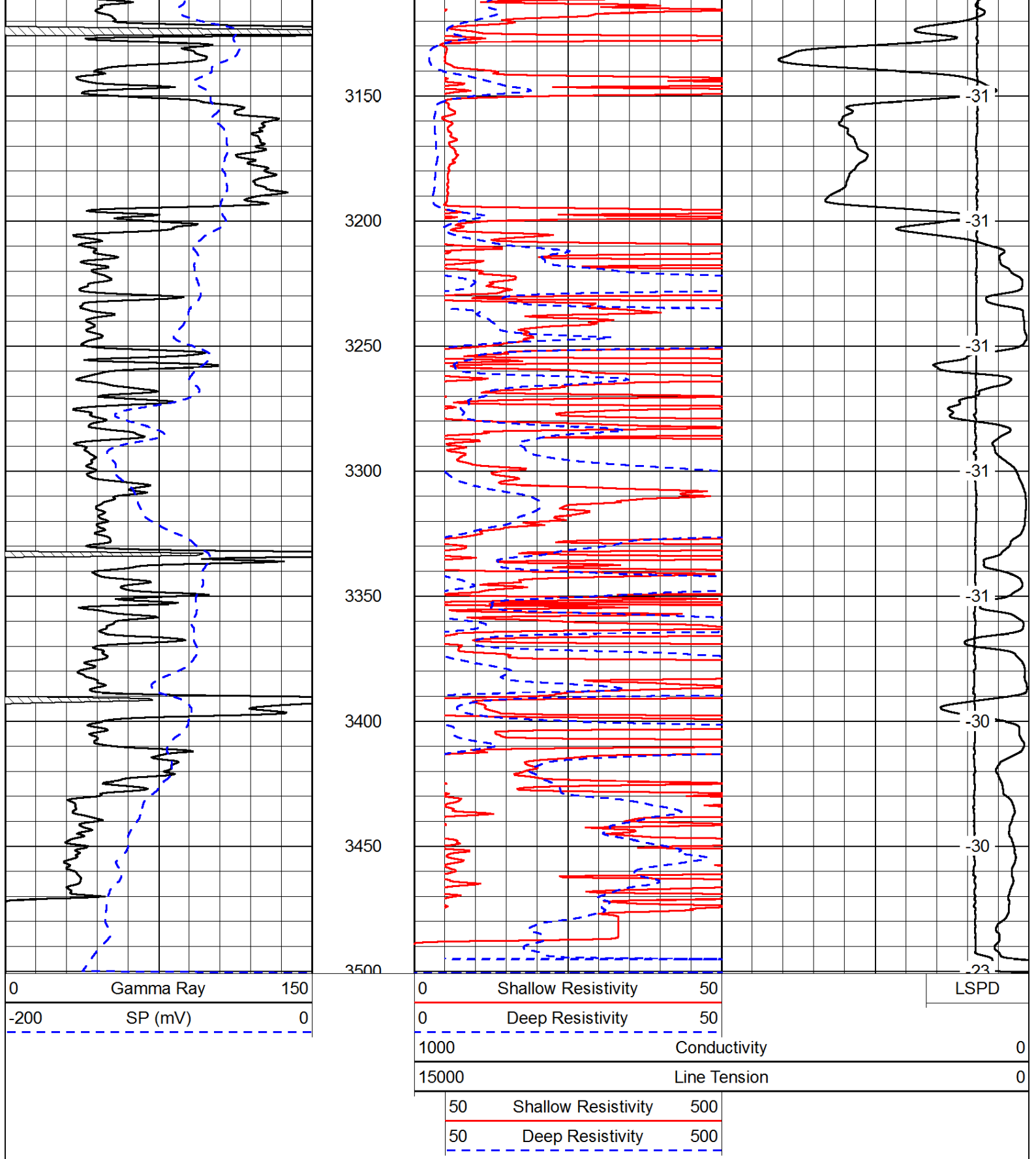






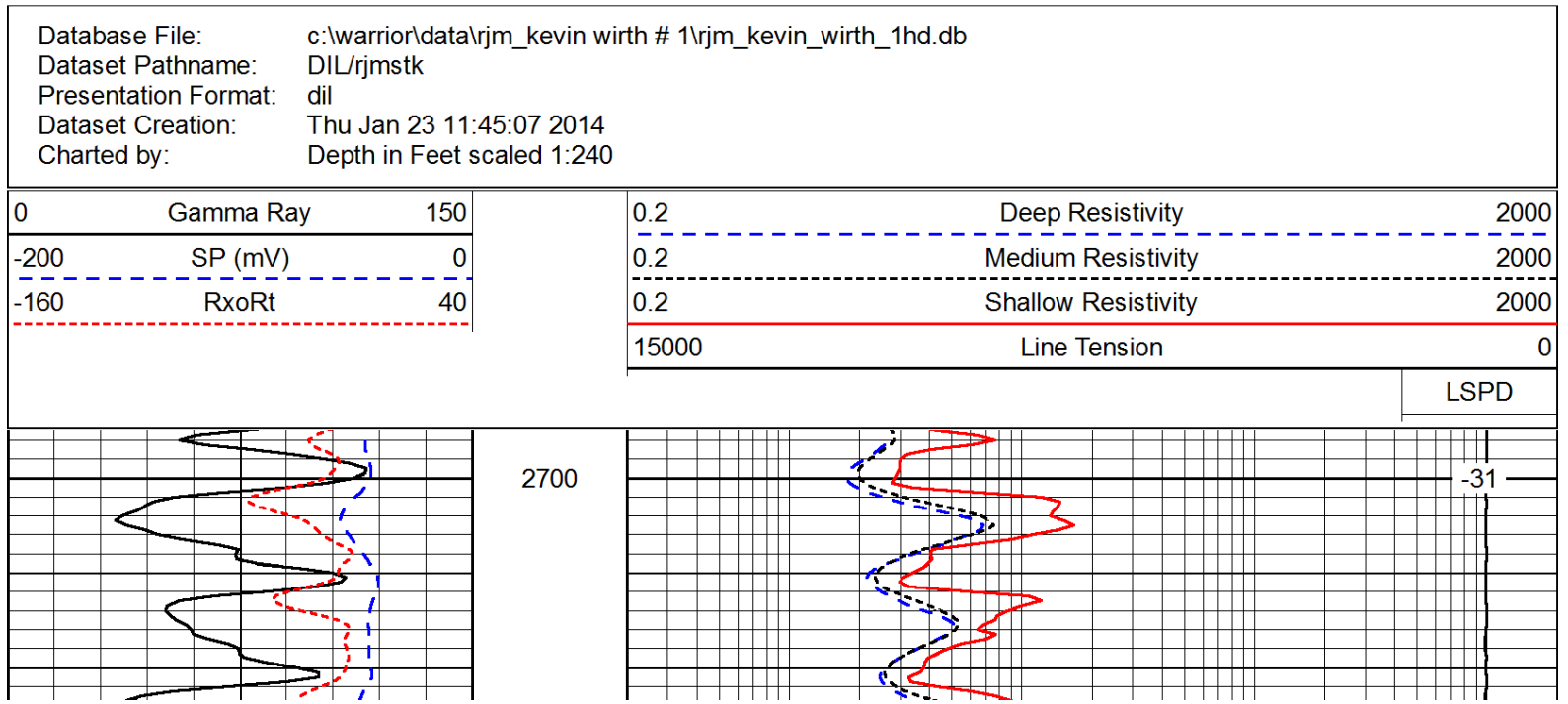
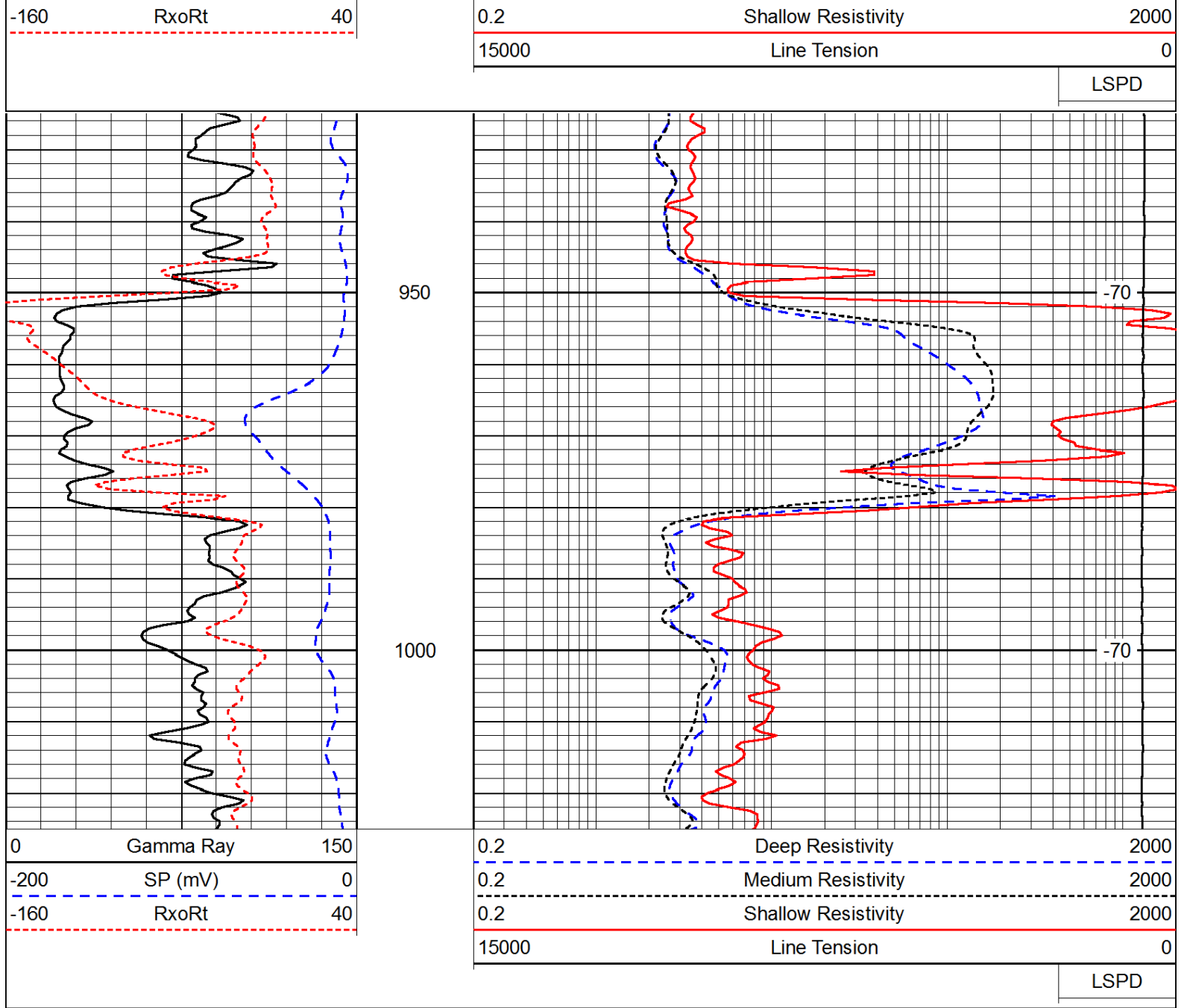


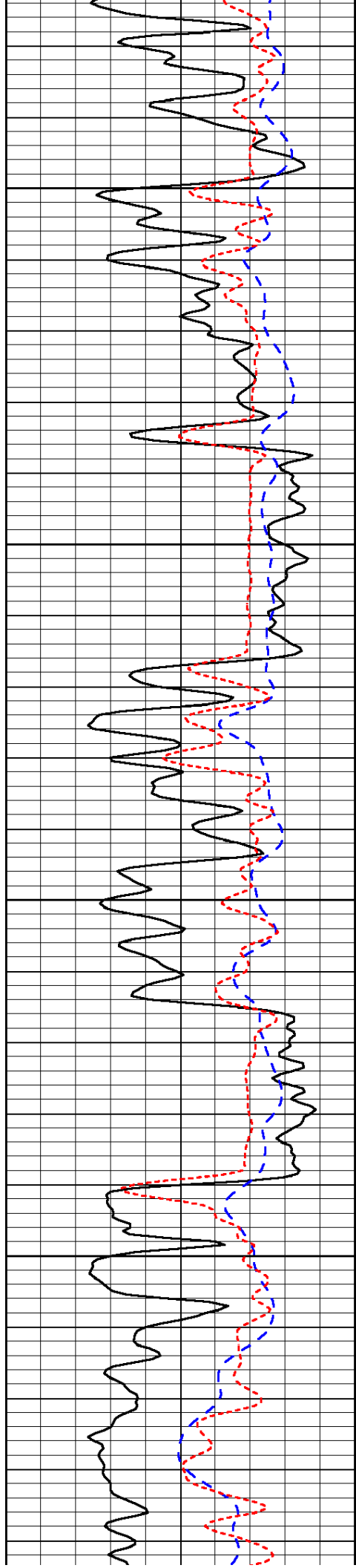




Database File: c:\warrior\data\rjm_kevin wirth # 1\rjm_kevin_wirth_1hd.db
 Dataset Pathname: DIL/rjmstk
 Presentation Format: dil
 Dataset Creation: Thu Jan 23 11:45:07 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000



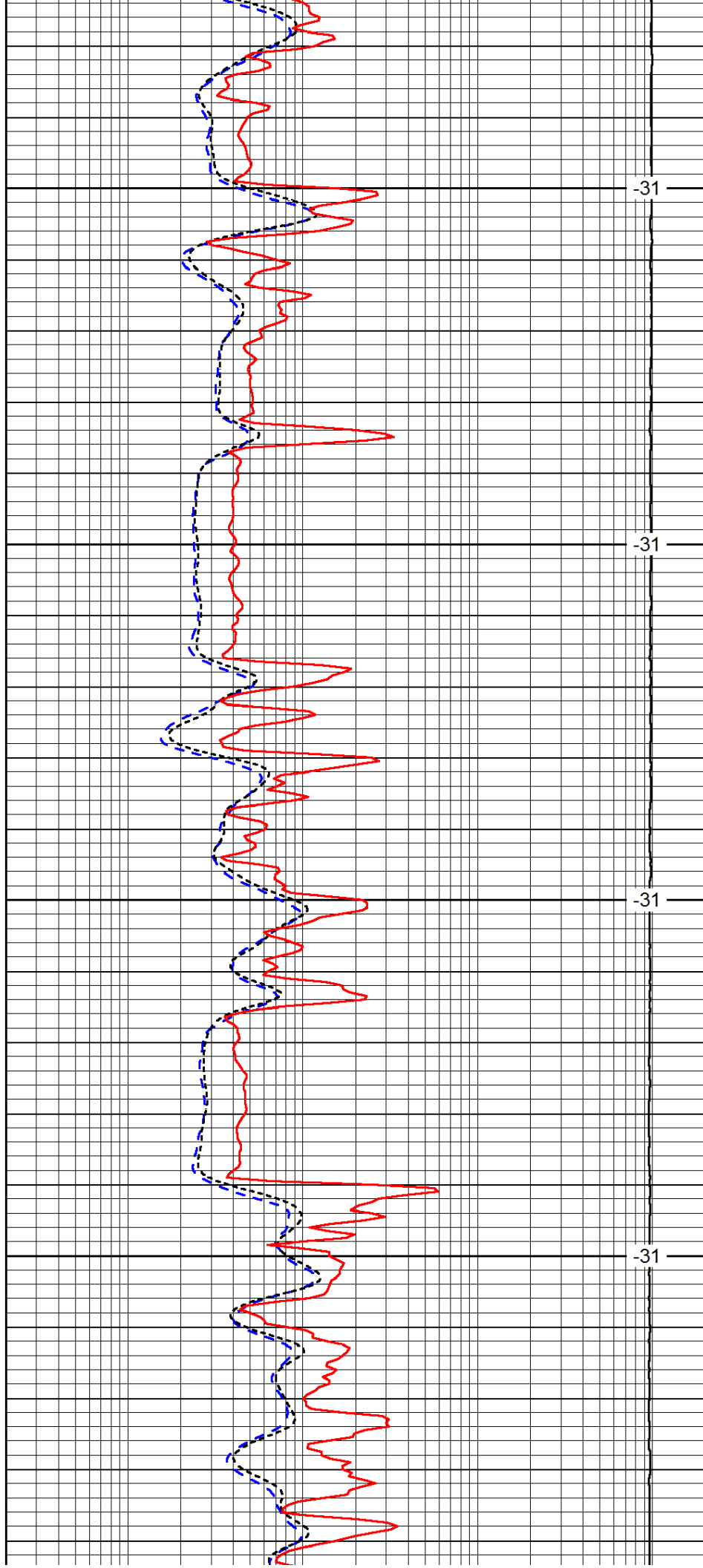


2750

2800

2850

2900

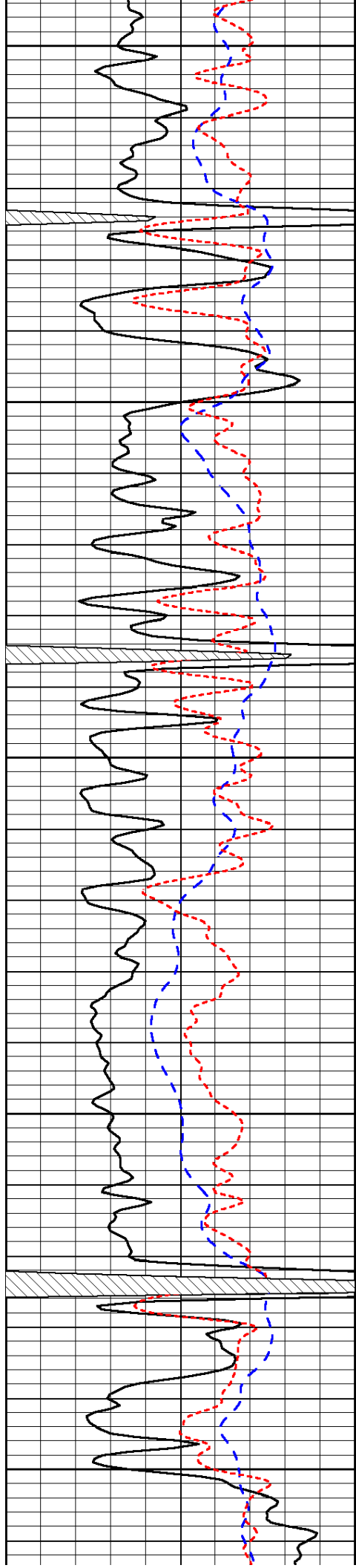


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-31

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-31



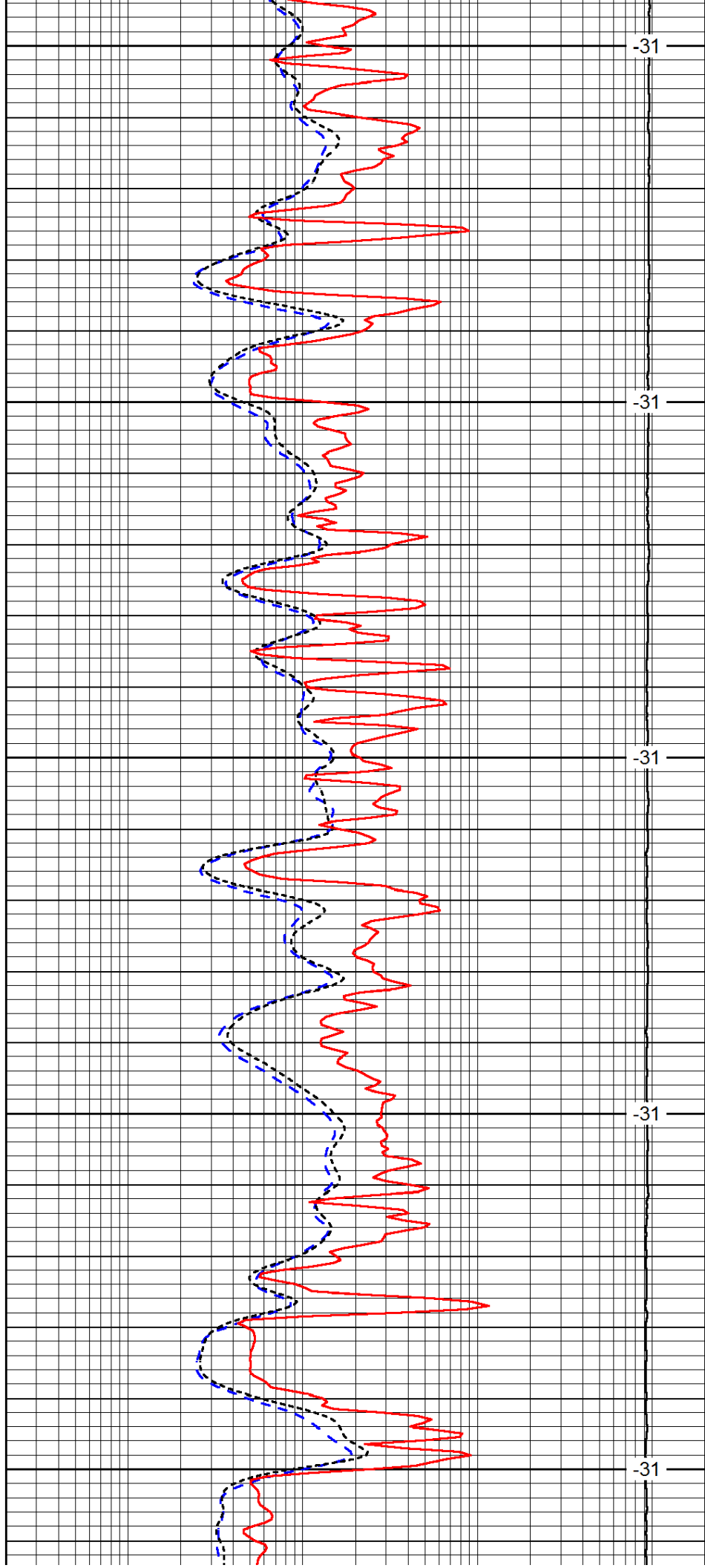
2950

3000

3050

3100

3150



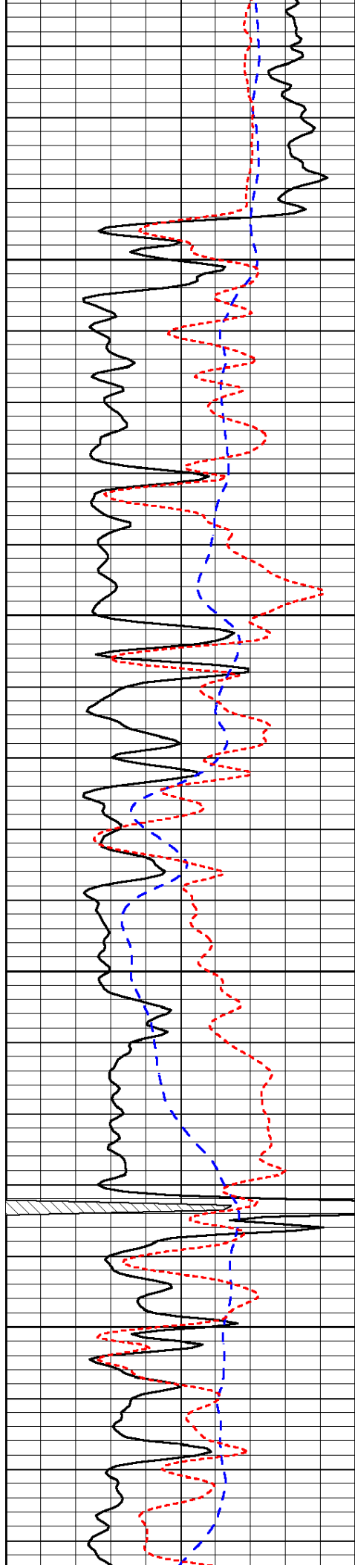
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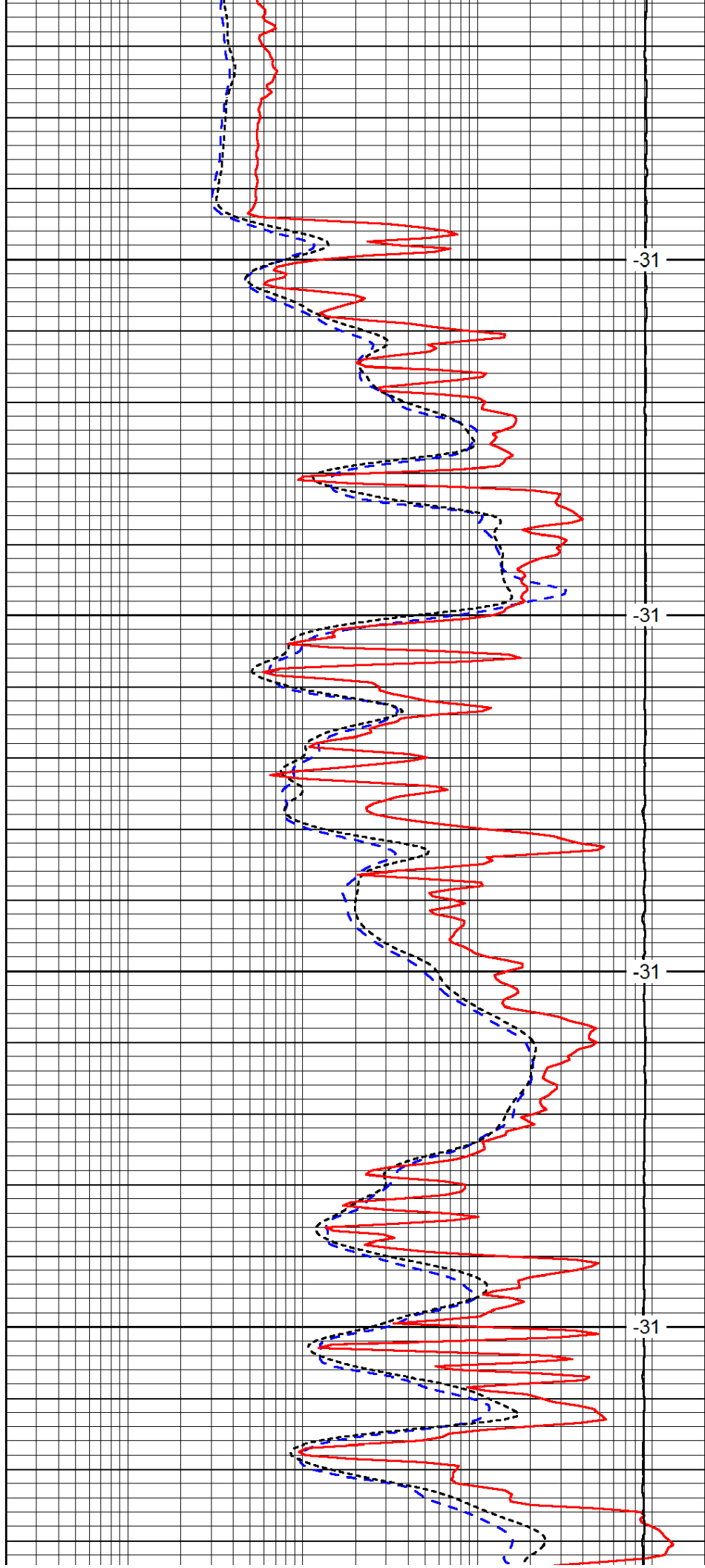


3200

3250

3300

3350

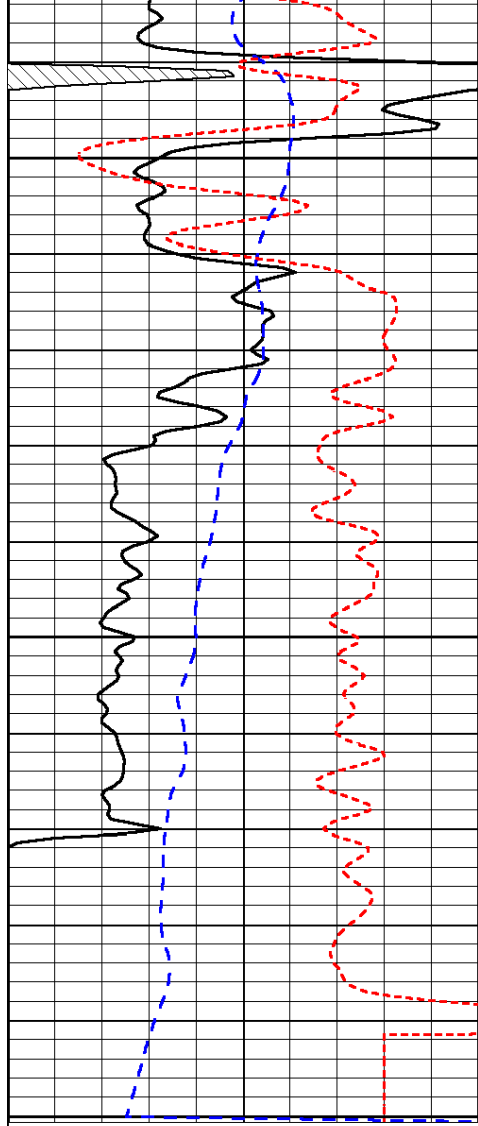


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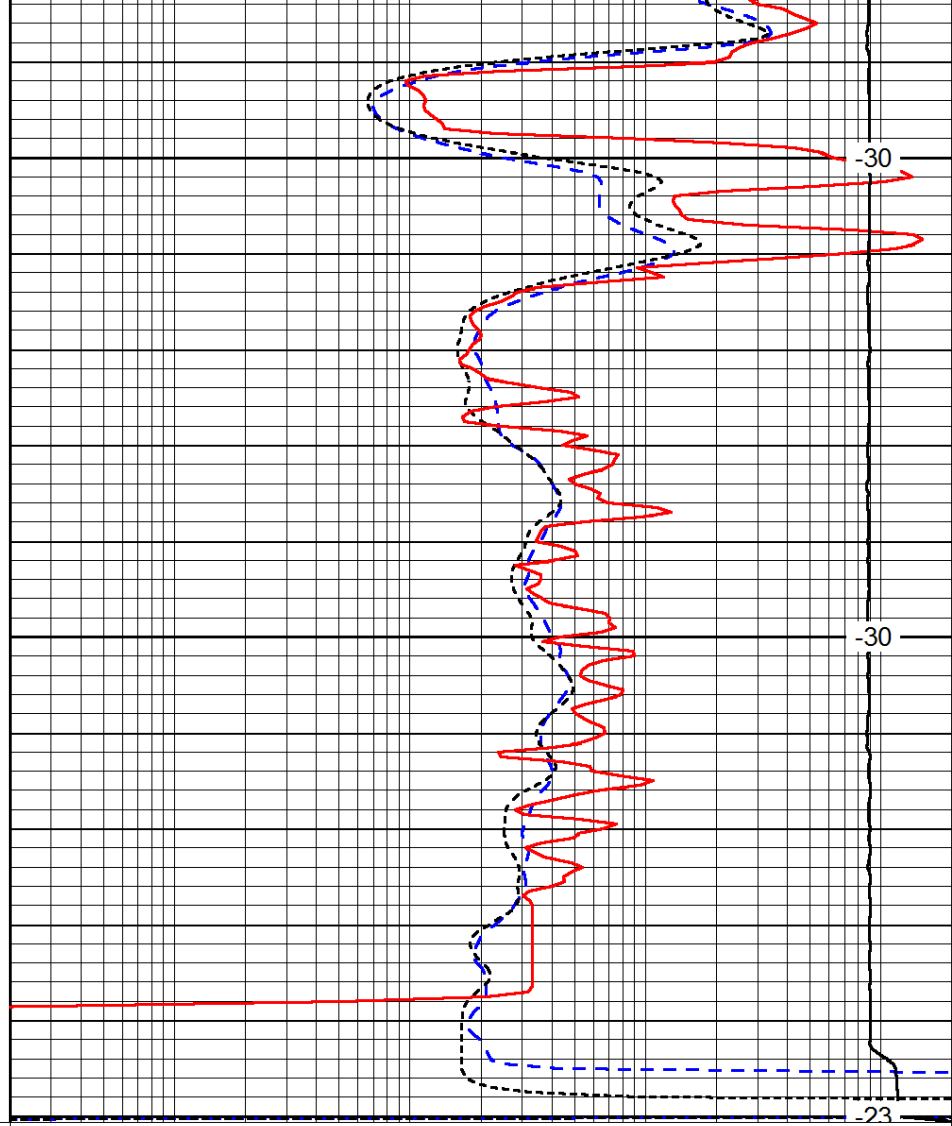


0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

3400

3450

3500



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

LSPD