



Dual Induction Log

Pioneer Energy Services

API No.	Company RAMA Operating Company, Inc.		
	Well Beran #1-10		
	Field Hall-Gurney		
	County Russell	State	Kansas
	Location 2300' FSL & 420' FWL	Other Services CNL/CDL MEL	
	Sec: 10	Tw: 15S	Rge: 12W
	Permanent Datum Ground Level	Elevation 1809	
	Log Measured From Kelly Bushing	13 Ft. Above Perm. Datum	
	Drilling Measured From Kelly Bushing		
Date	2/17/2014		
Run Number	One		
Depth Driller	3375		
Depth Logger	3374		
Bottom Logged Interval	3373		
Top Log Interval	700		
Casing Driller	8.625 @ 731		
Casing Logger	29		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4000		
Density / Viscosity	9.5 52		
pH / Fluid Loss	10.0 8.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.50 @ 58		
Rmf @ Meas. Temp	0.38 @ 58		
Rmc @ Meas. Temp	0.68 @ 58		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.26 @ 110		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	110		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Josh Austin		

<<< Fold Here >>>

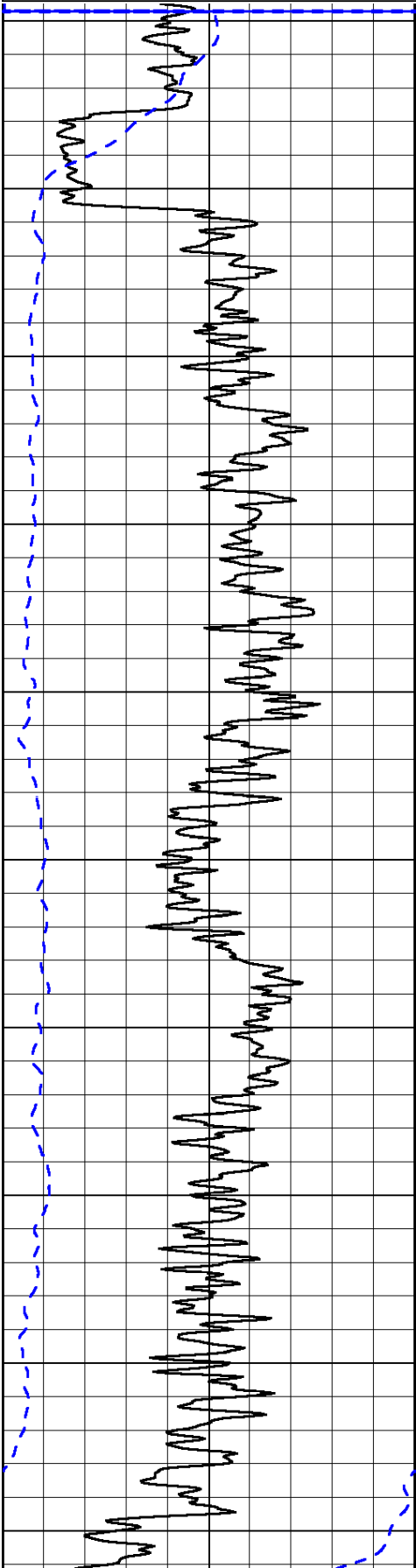
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

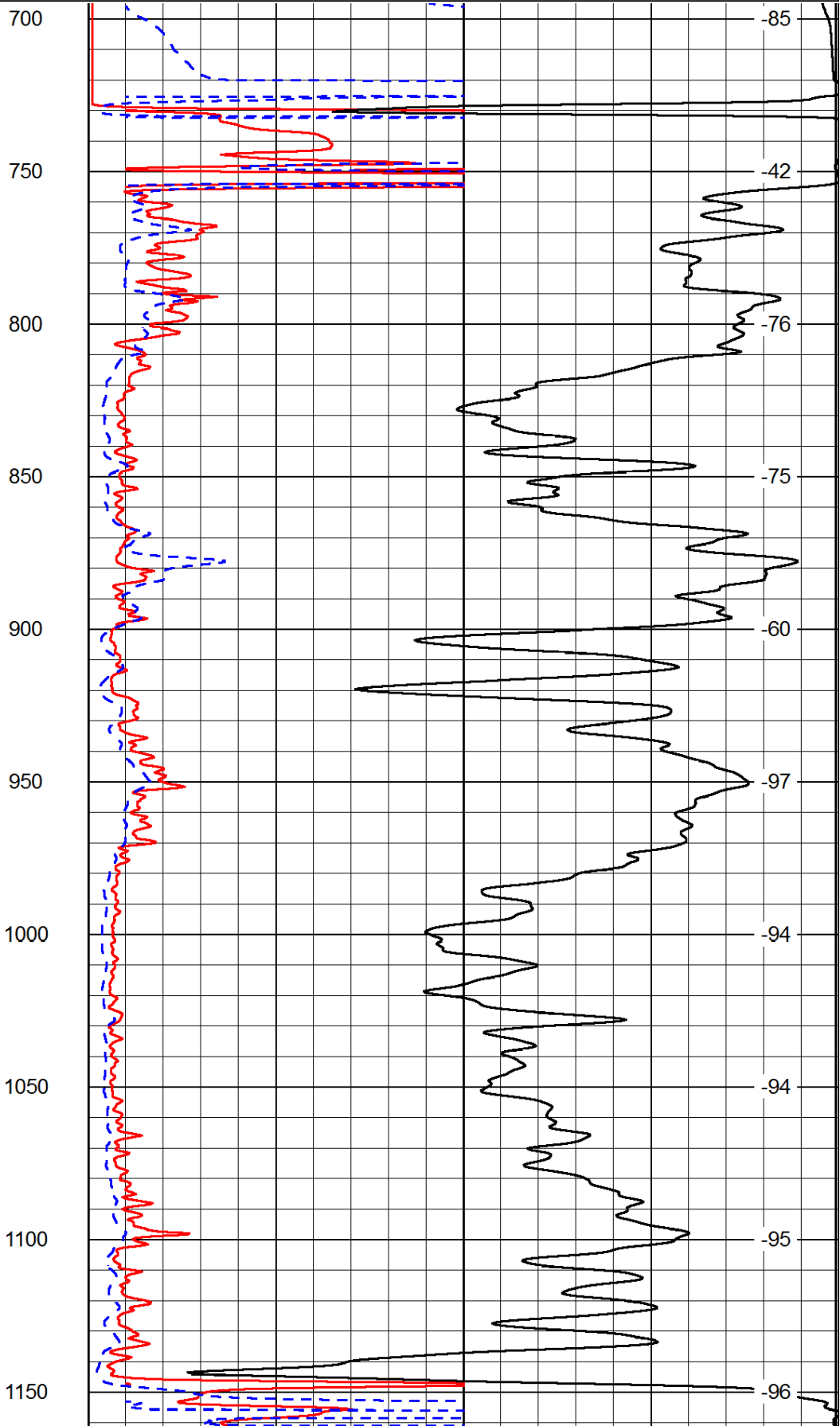
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Bunker Hill,
South to the dead end, East to 196 Rd, 2 South,
East & North into

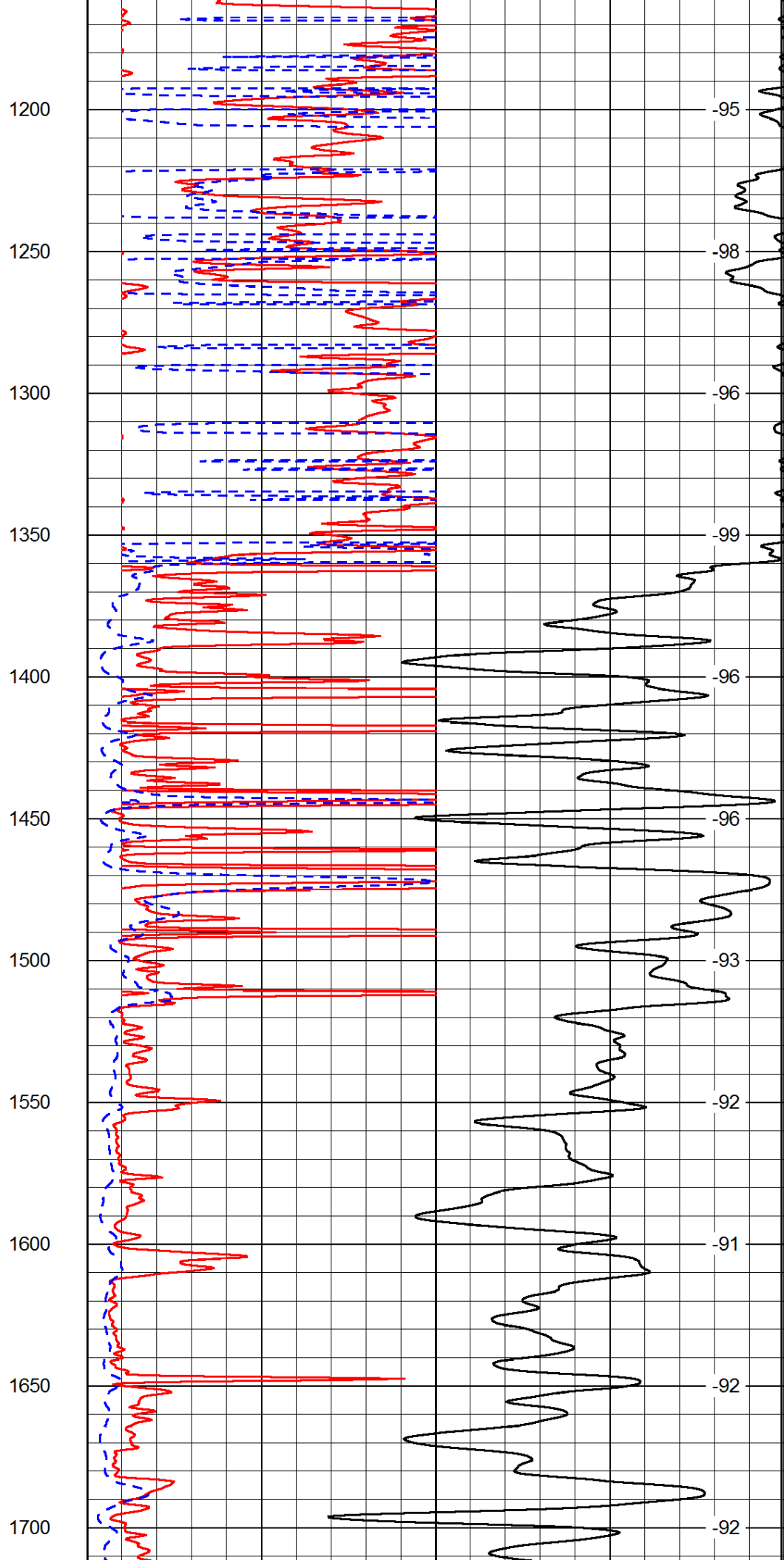
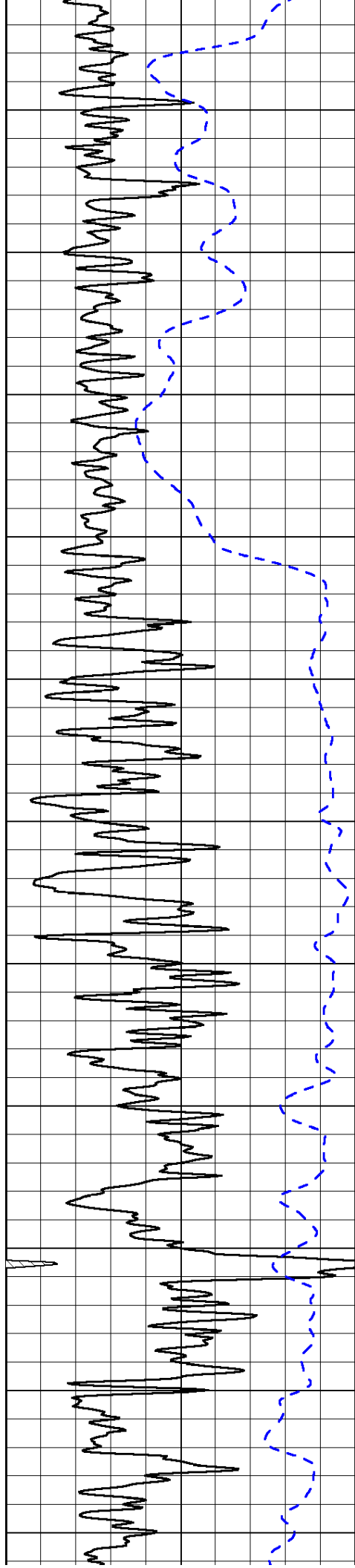
Database File: c:\warrior\data\rama_beran #1-10\rama_0221714hd.db
Dataset Pathname: dil\ramstck
Presentation Format: dil2in
Dataset Creation: Mon Feb 17 21:44:58 2014
Charted by: Depth in Feet scaled 1:600

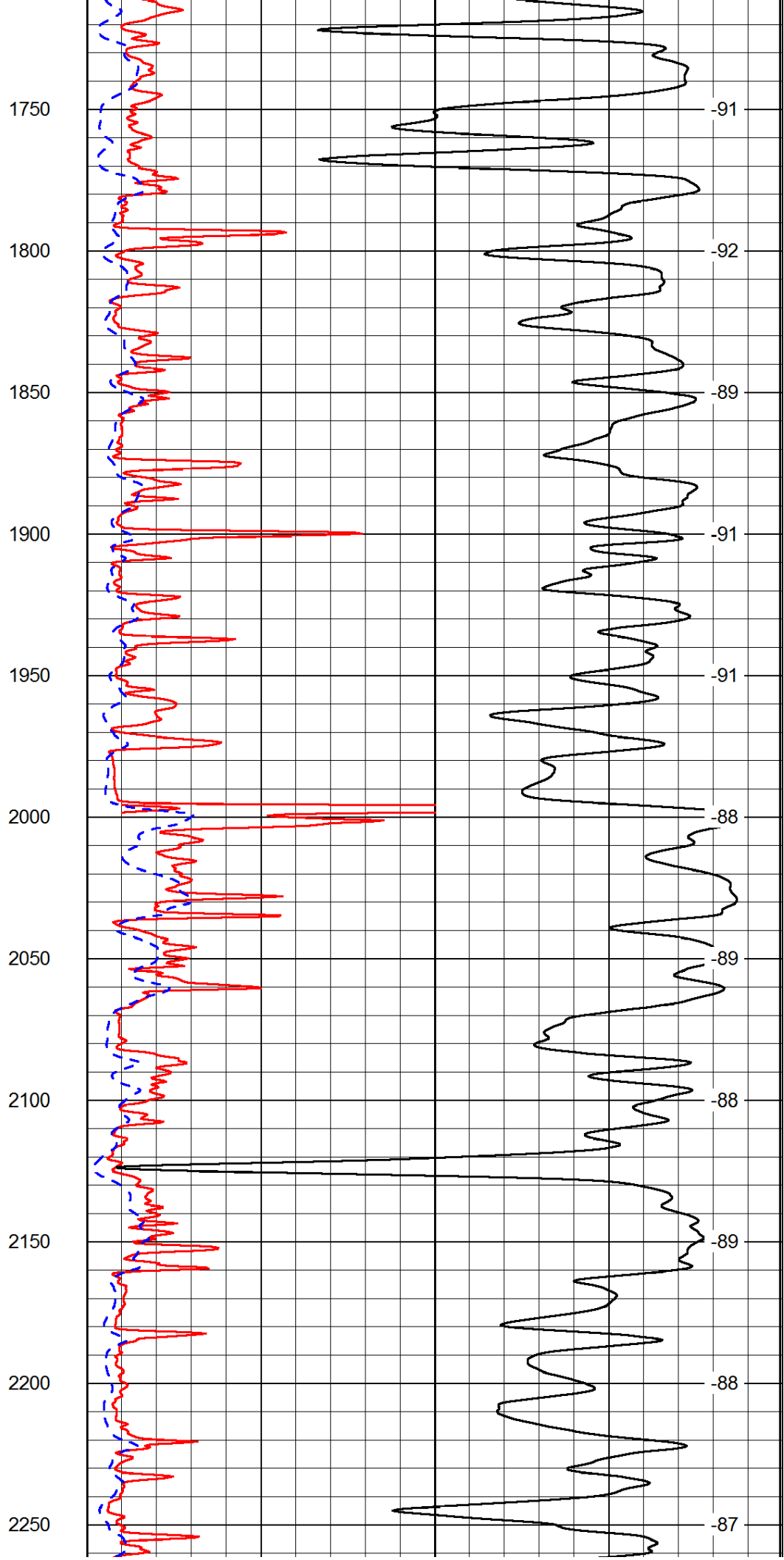
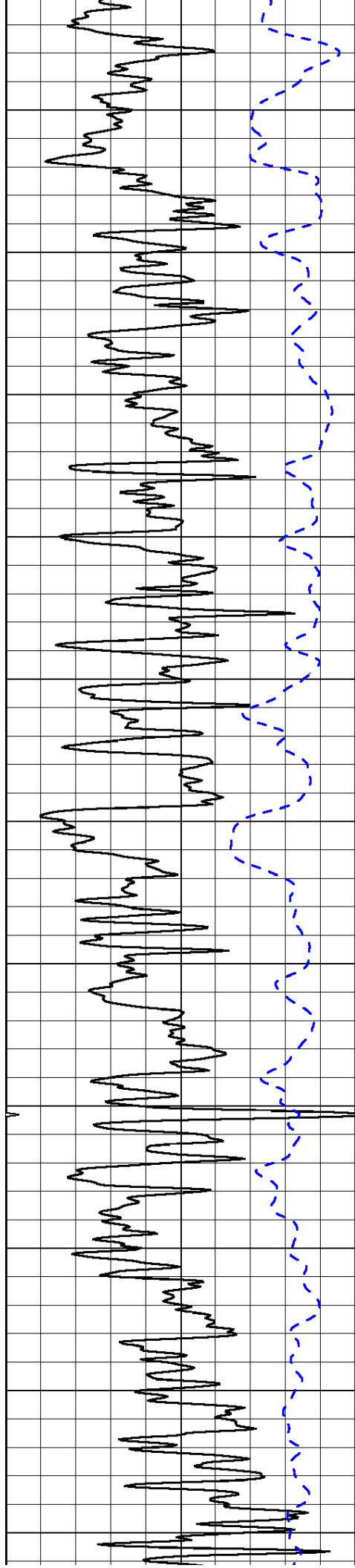
0	Gamma Ray	150
-200	SP (mV)	0

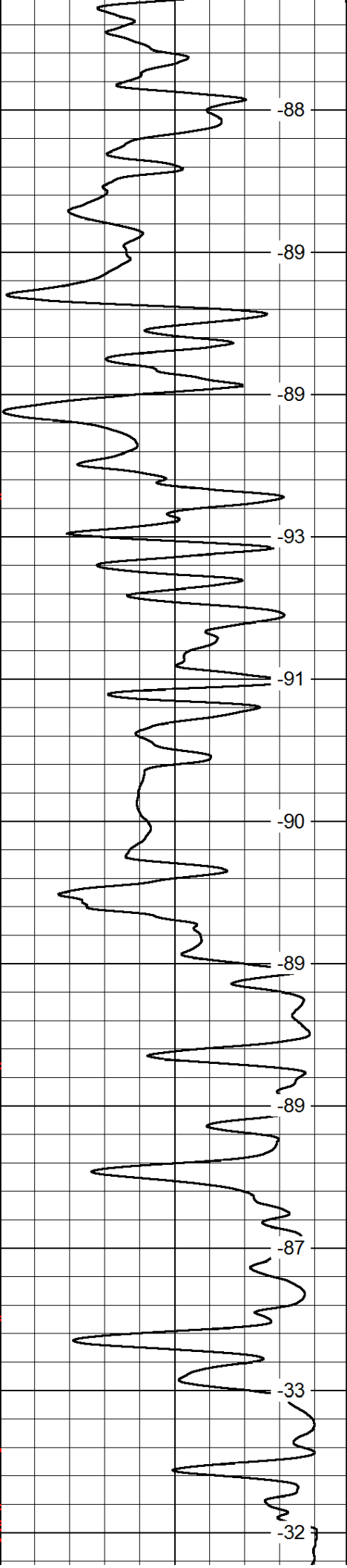
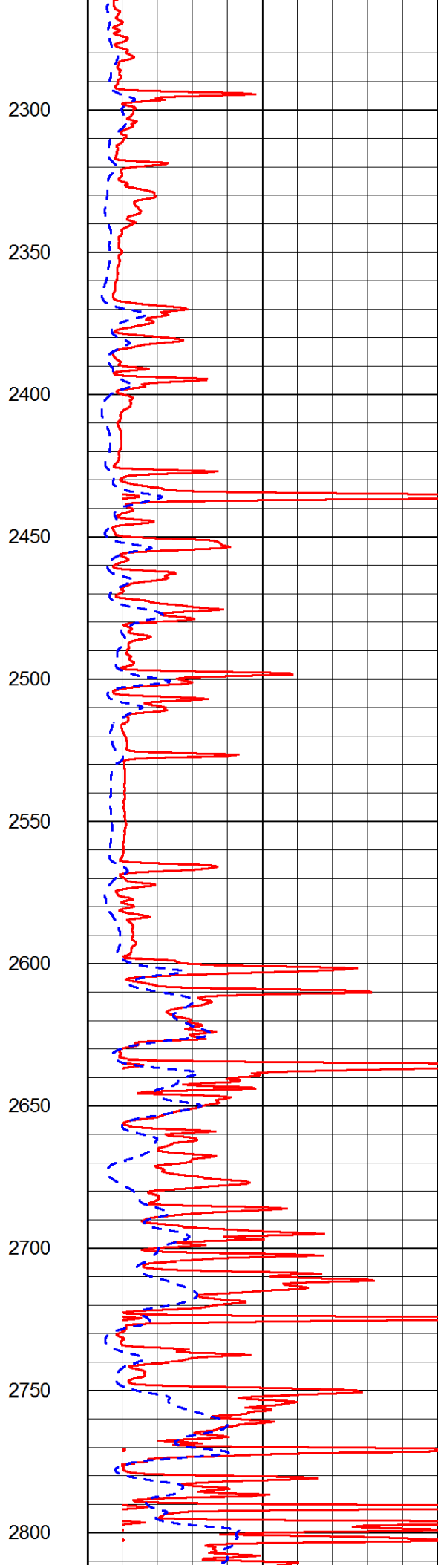
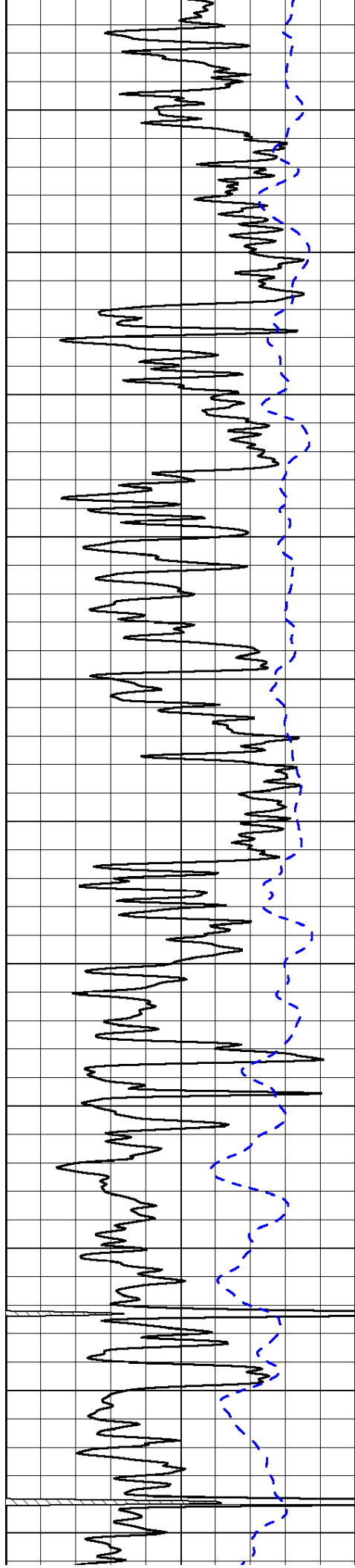


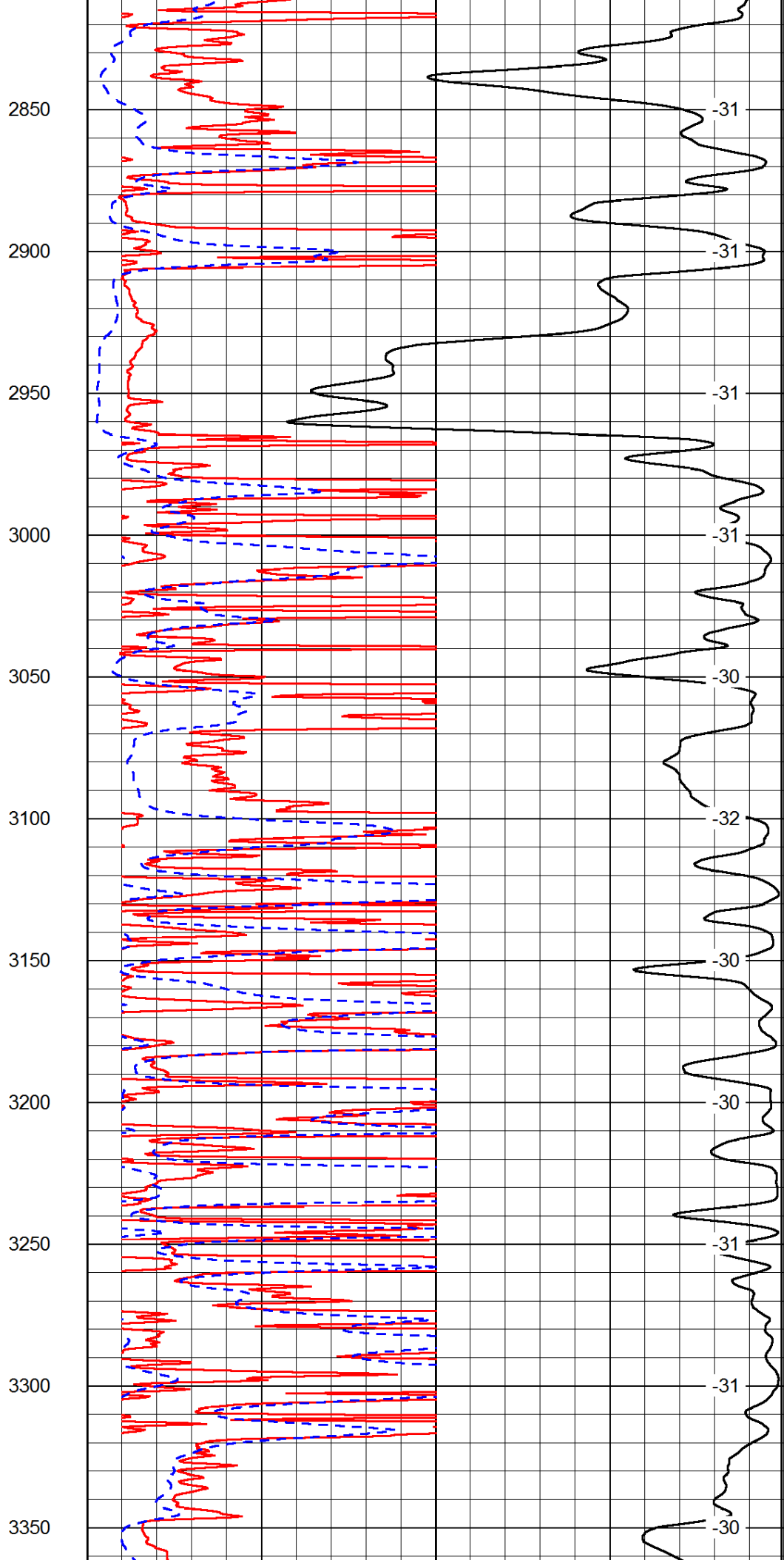
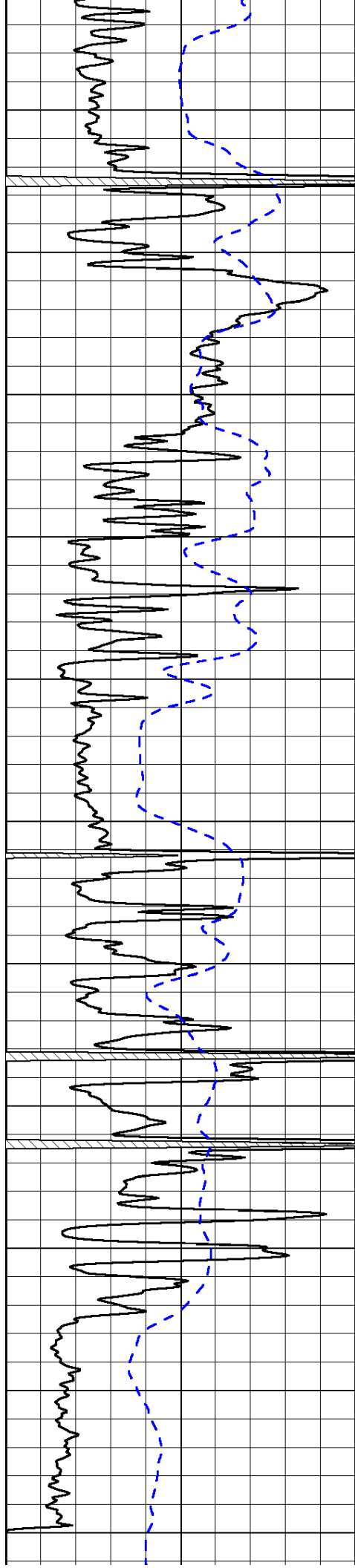
0	Shallow Resistivity	50	LSPD
0	Deep Resistivity	50	
1000	Conductivity		0
15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

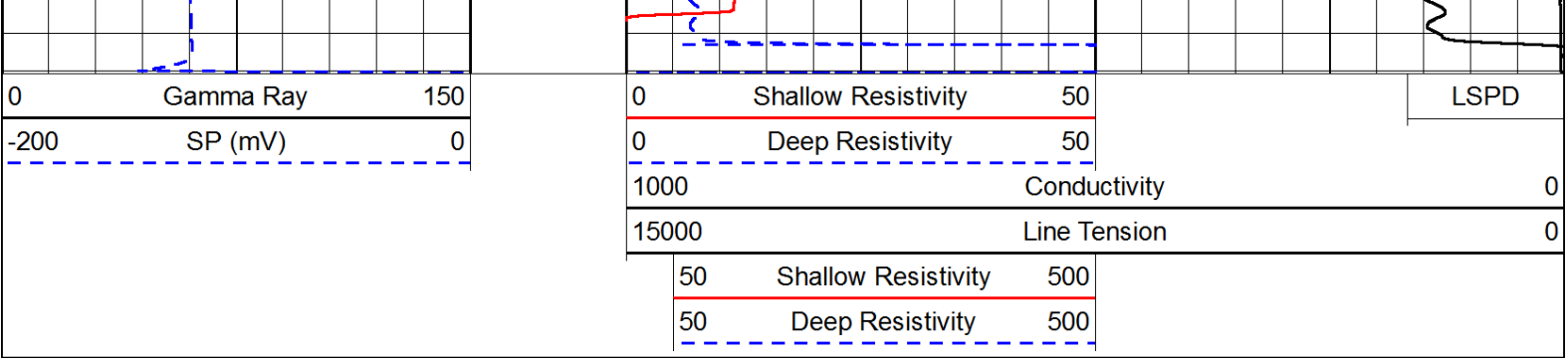




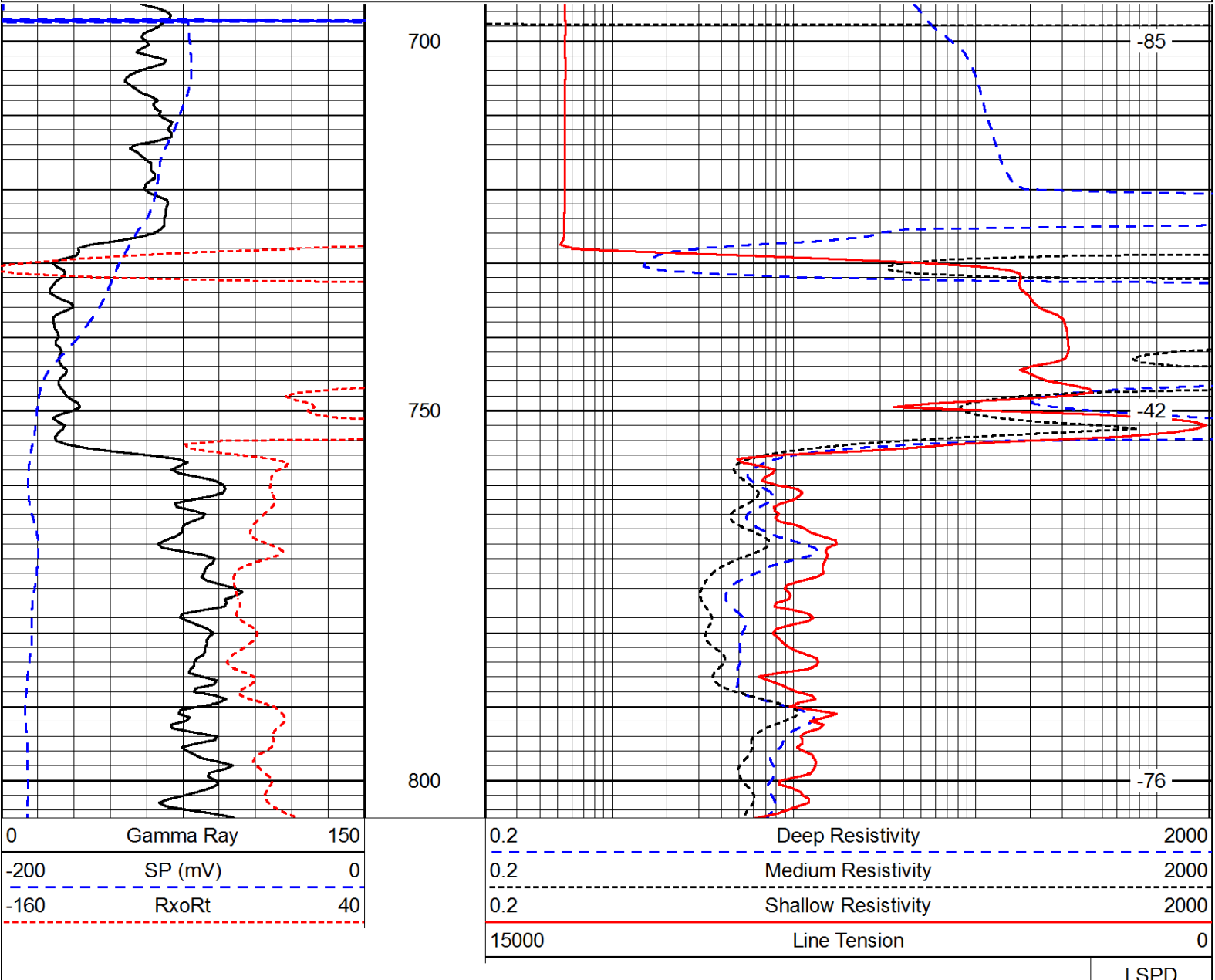
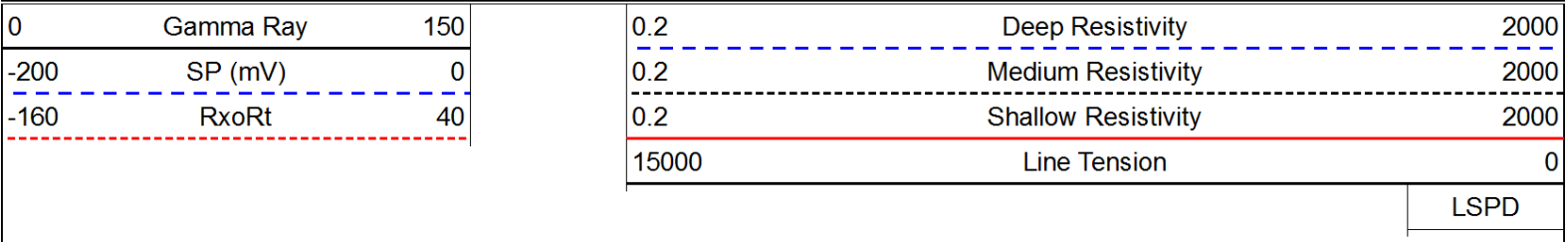








Database File: c:\warrior\data\rama_beran #1-10\rama_0221714hd.db
Dataset Pathname: dil/ramstck
Presentation Format: dil
Dataset Creation: Mon Feb 17 21:44:58 2014
Charted by: Depth in Feet scaled 1:240

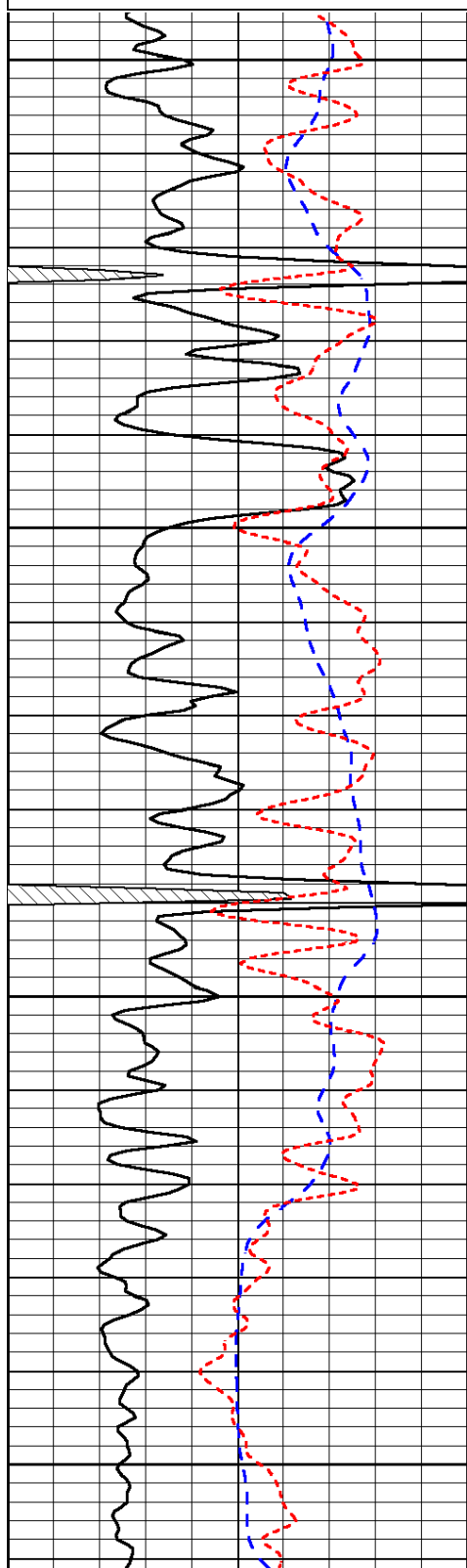


Database File: c:\warrior\data\rama_beran #1-10\rama_0221714hd.db
Dataset Pathname: dil/ramstck
Presentation Format: dil
Dataset Creation: Mon Feb 17 21:44:58 2014
Charted by: Depth in Feet scaled 1:240

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

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

LSPD

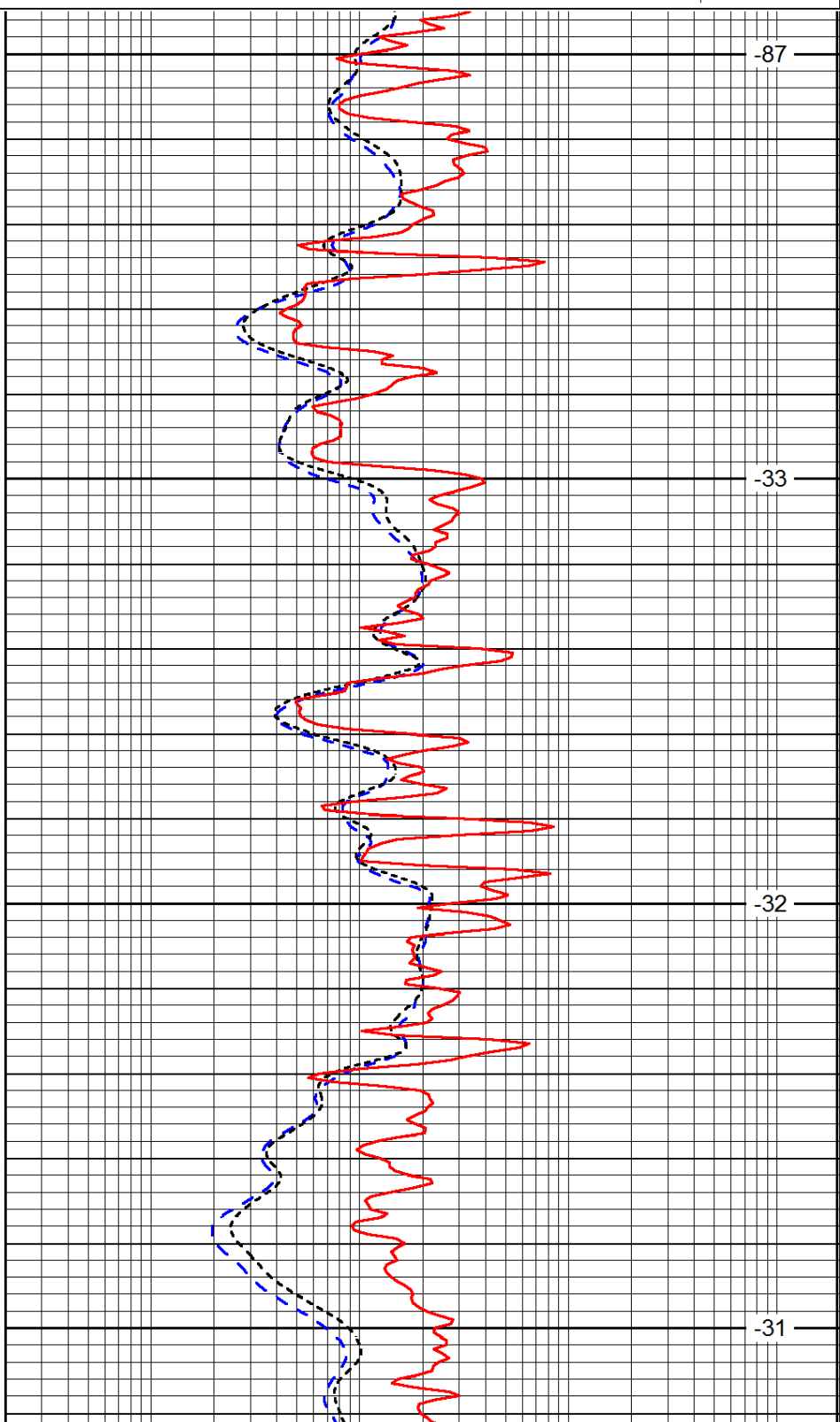


2700

2750

2800

2850

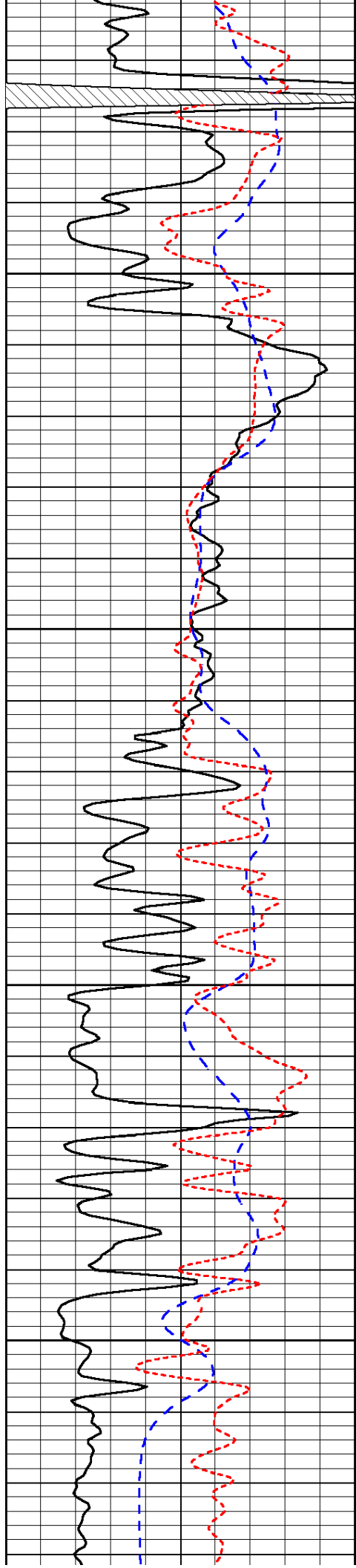


-87

-33

-32

-31

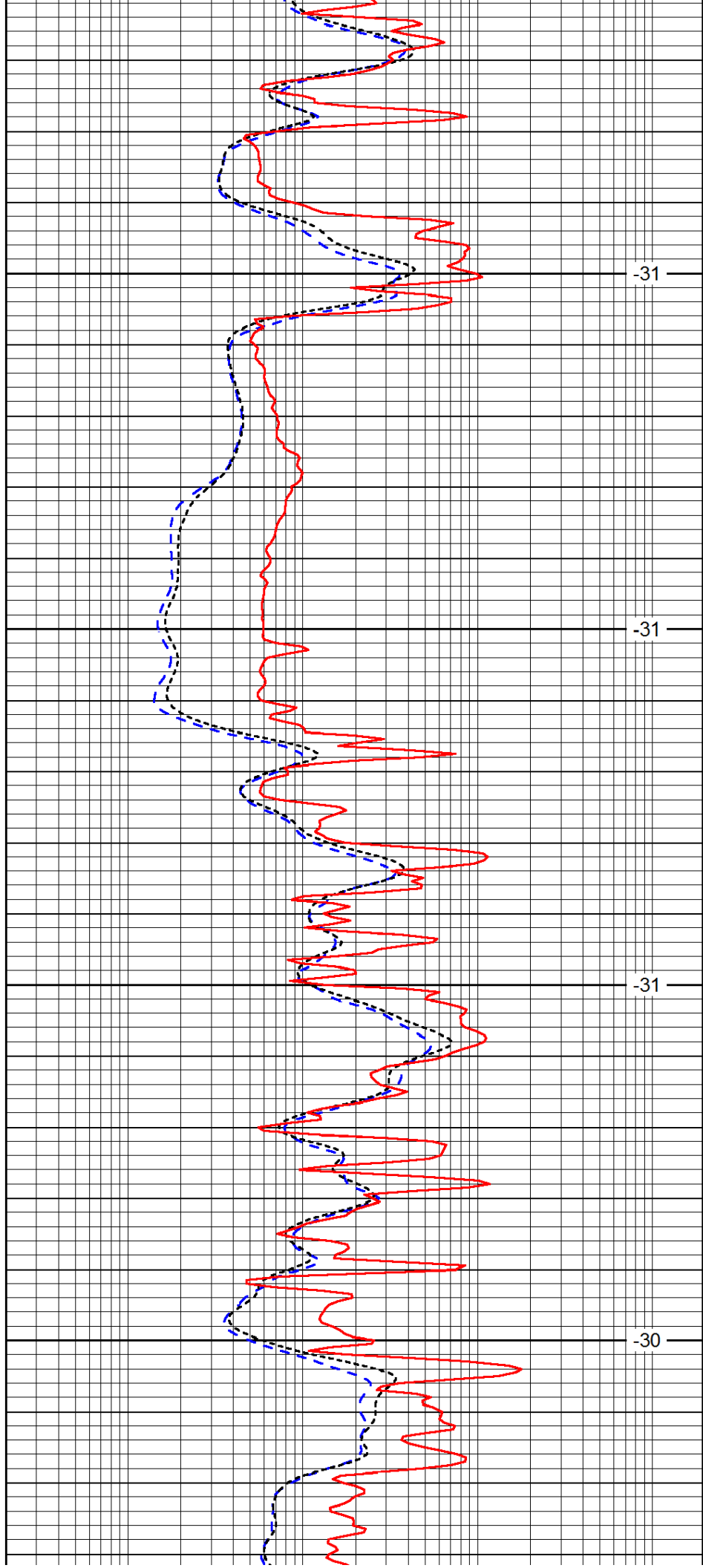


2900

2950

3000

3050

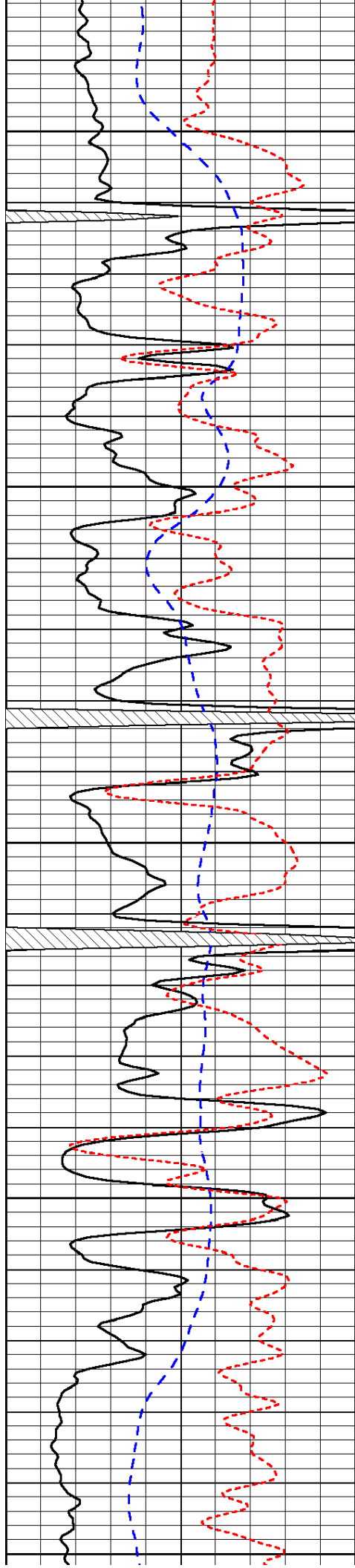


-31

-31

-31

-30



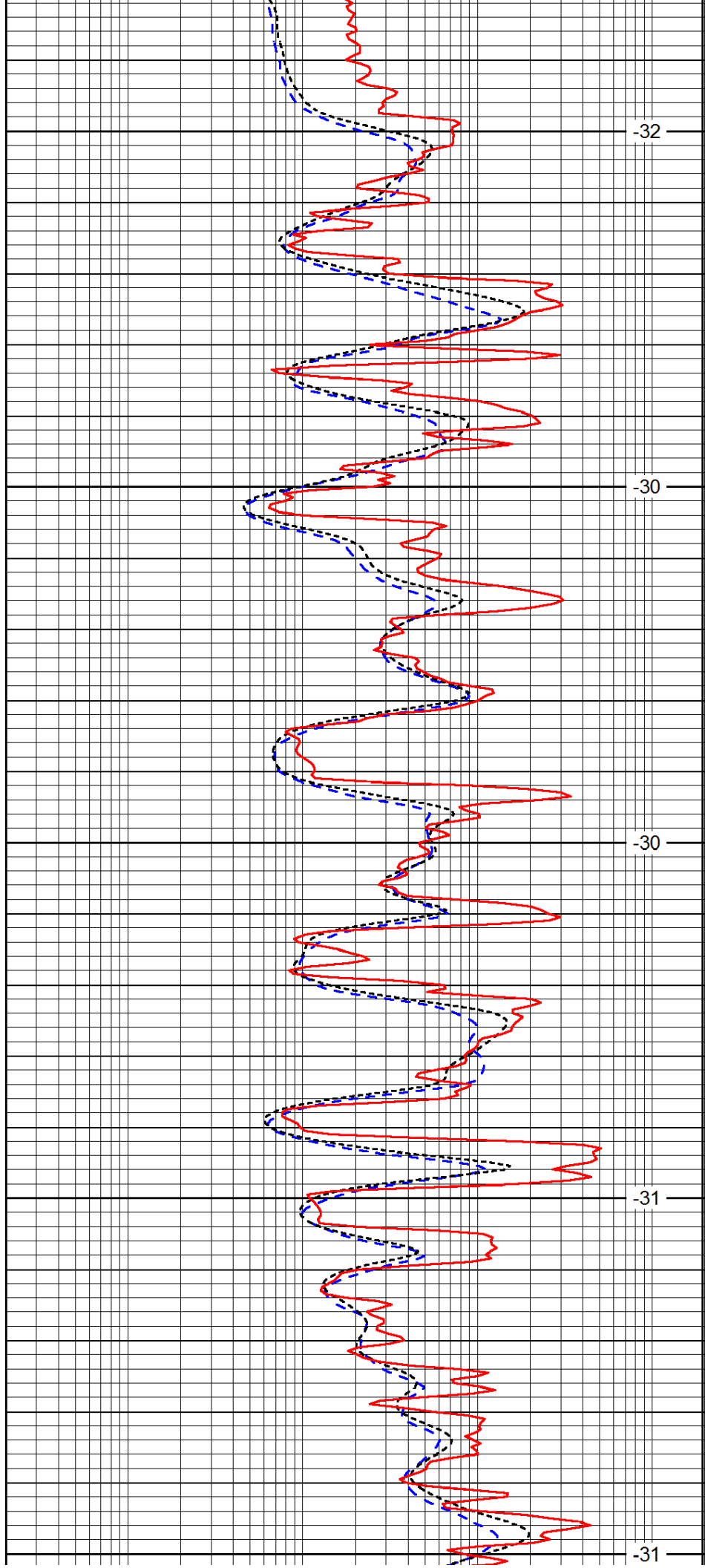
3100

3150

3200

3250

3300



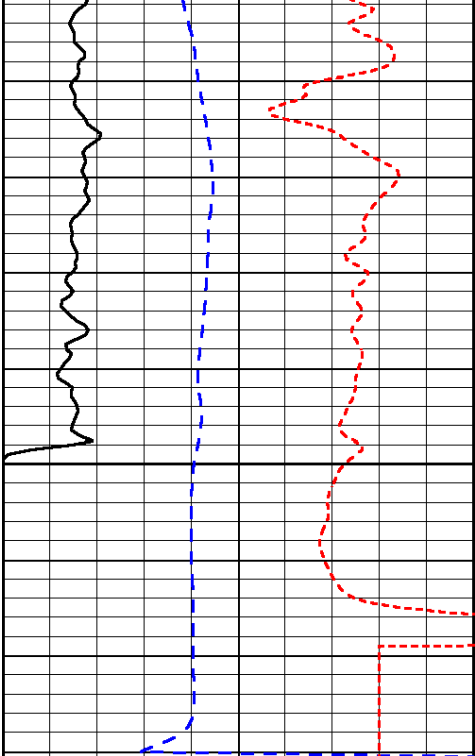
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-30

-30

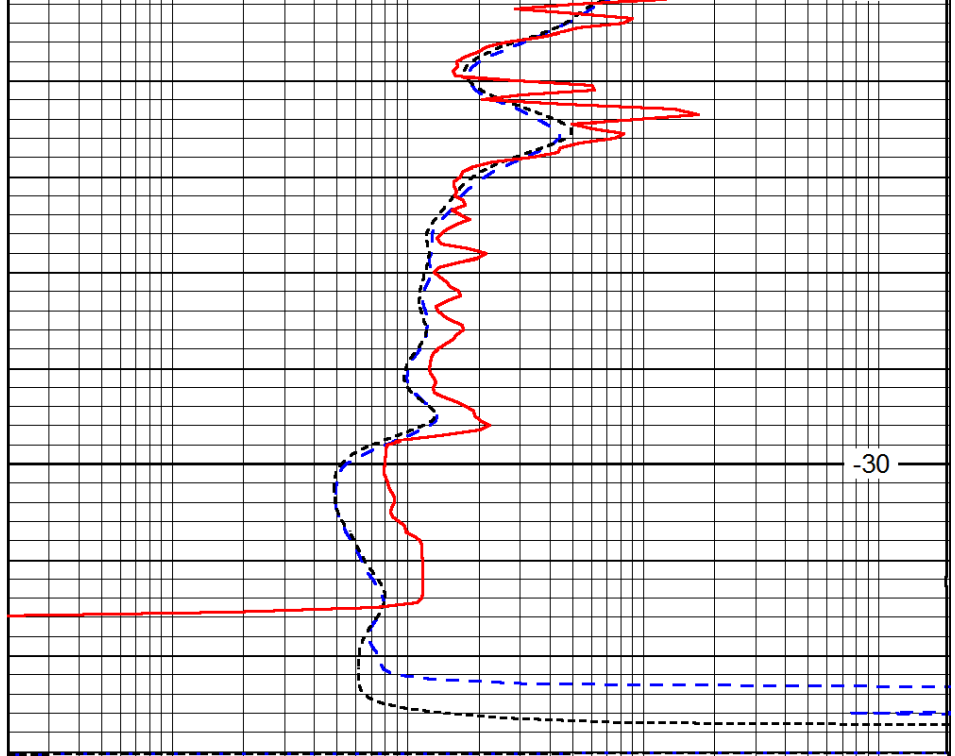
-31

-31



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

3350



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

LSPD