



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.			
	Well Eulert #21-35			
	Field Eulert			
	County	Russell	State	Kansas
	Location	1330' FSL & 2240' FEL		
	Sec: 35	Twp: 11S	Rge: 15W	Other Services CNL/CDL MEL
Permanent Datum	Ground Level	Elevation 1841		Elevation
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum		K.B. 1849
Drilling Measured From	Kelly Bushing			D.F. 1841
Date	7/25/2014			
Run Number	One			
Depth Driller	3410			
Depth Logger	3409			
Bottom Logged Interval	3408			
Top Log Interval	875			
Casing Driller	8.625 @ 902			
Casing Logger	899			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity, ppm CL	5.500			
Density / Viscosity	9.3 48			
pH / Fluid Loss	10.0 8.0			
Source of Sample	Flowline			
Rm @ Meas. Temp	.42 @ 80			
Rmf @ Meas. Temp	.32 @ 80			
Rmc @ Meas. Temp	.57 @ 80			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.31 @ 110			
Operating Rig Time	3 Hours			
Max Rec. Temp. F	110			
Equipment Number	17			
Location	Hays			
Recorded By	C. Desaire			
Witnessed By	Adam Folk			

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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

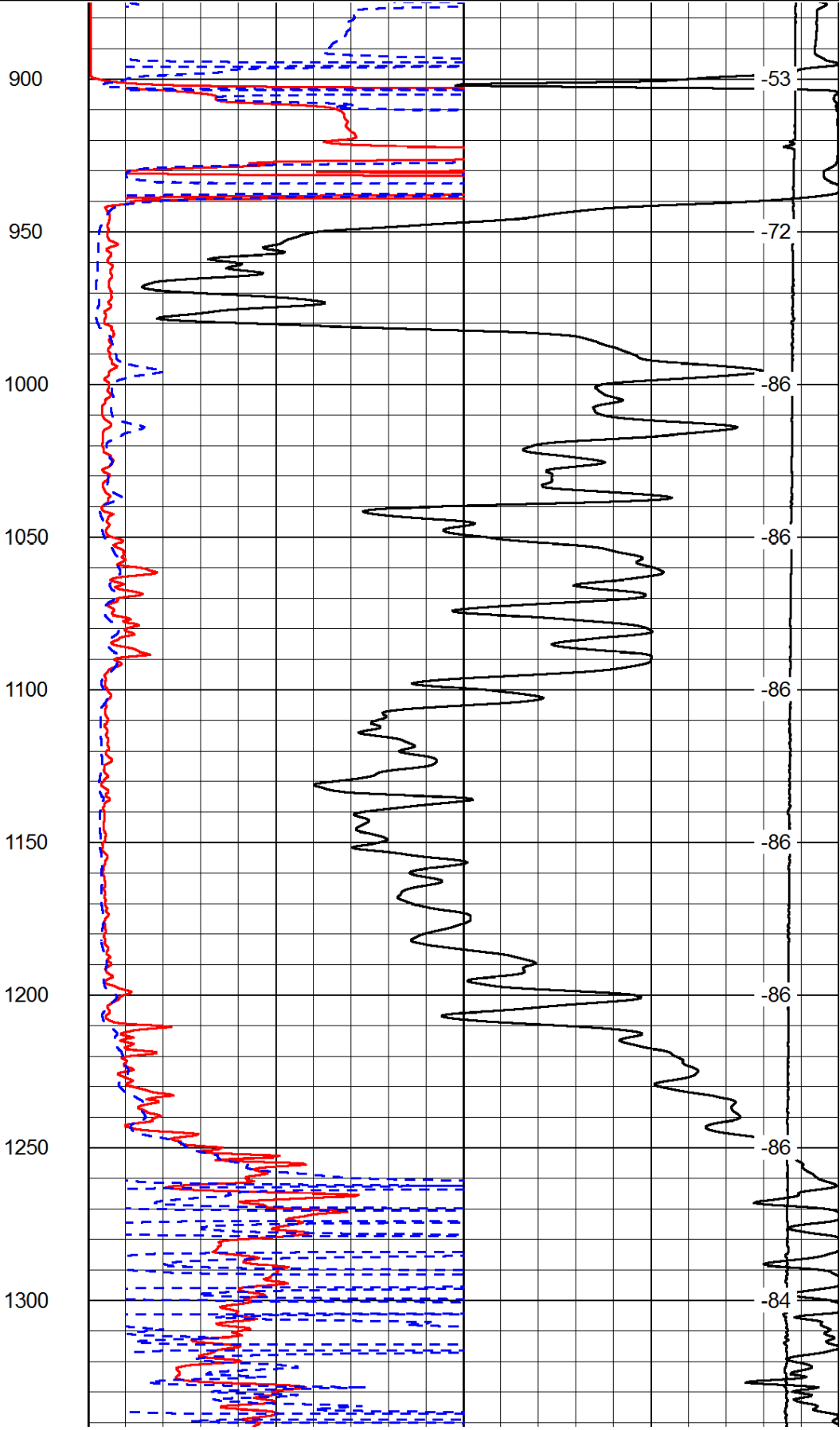
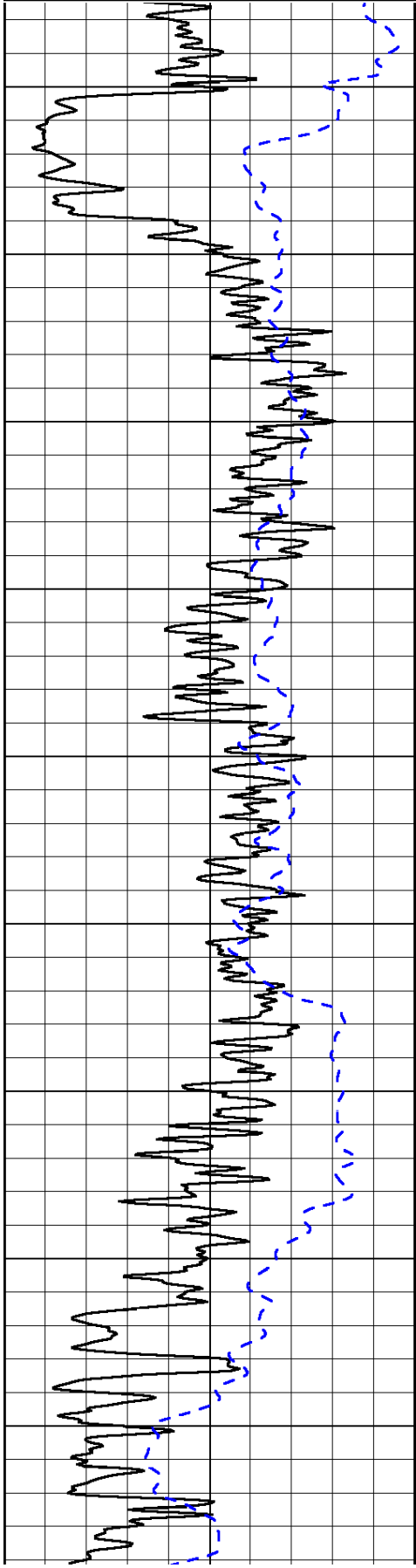
Russell KS, N to Mellard Rd,
W to 180 Rd, 3 1/4 N, W N W S 1/2 mile into

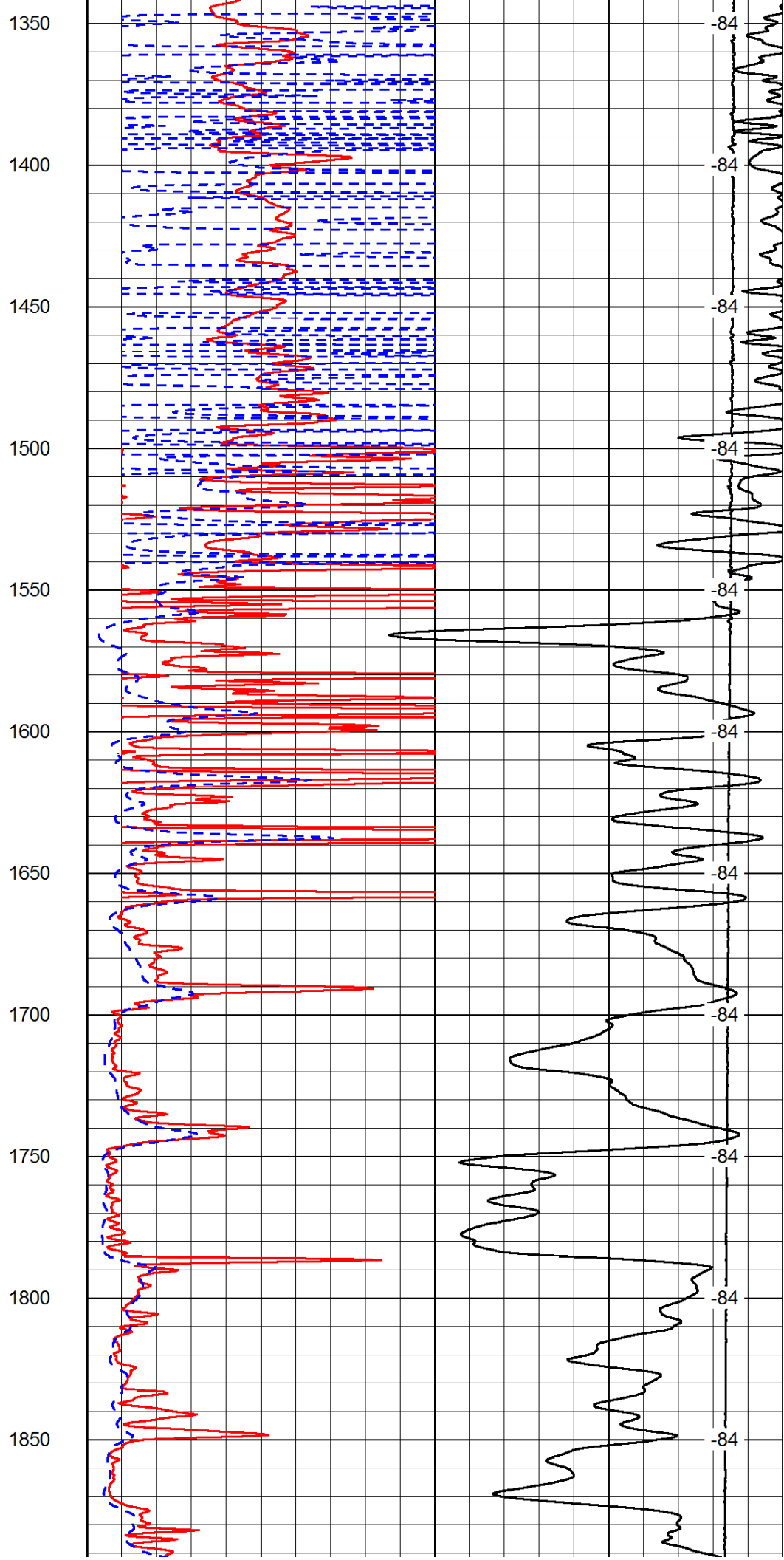
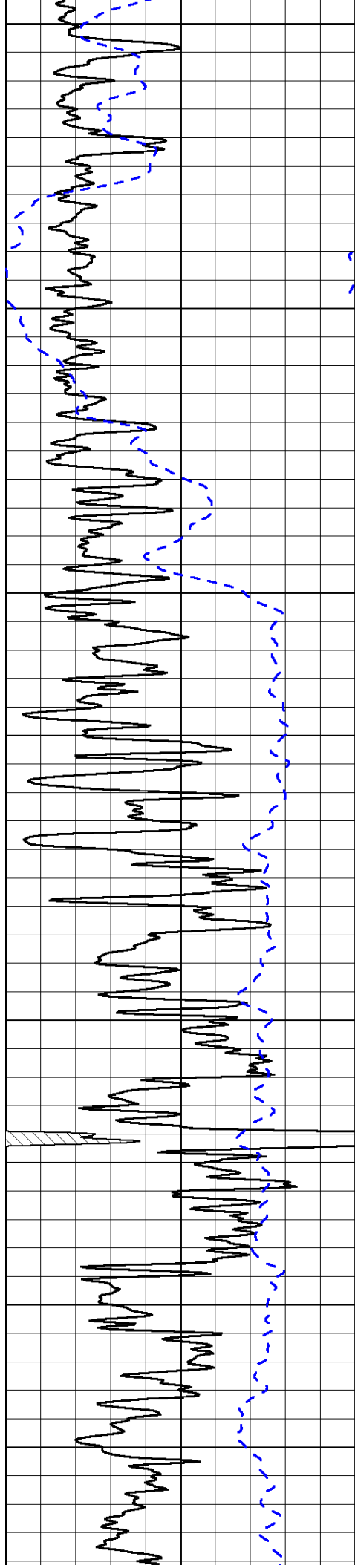
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Dataset Pathname: dil\awstk
Presentation Format: dil2in
Dataset Creation: Sat Jul 26 06:17:04 2014
Charted by: Depth in Feet scaled 1:600

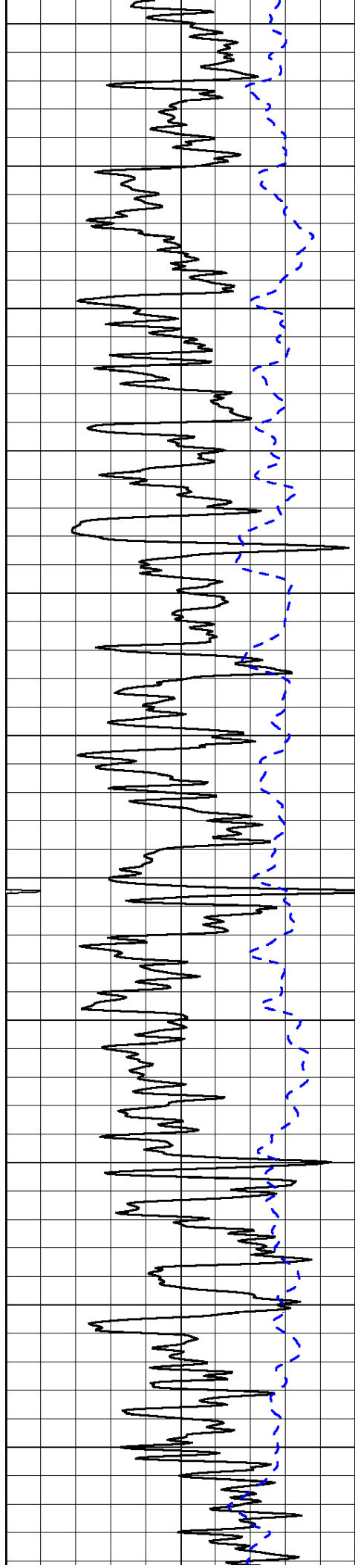
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0	Gamma Ray	150
-200	SP (mV)	0

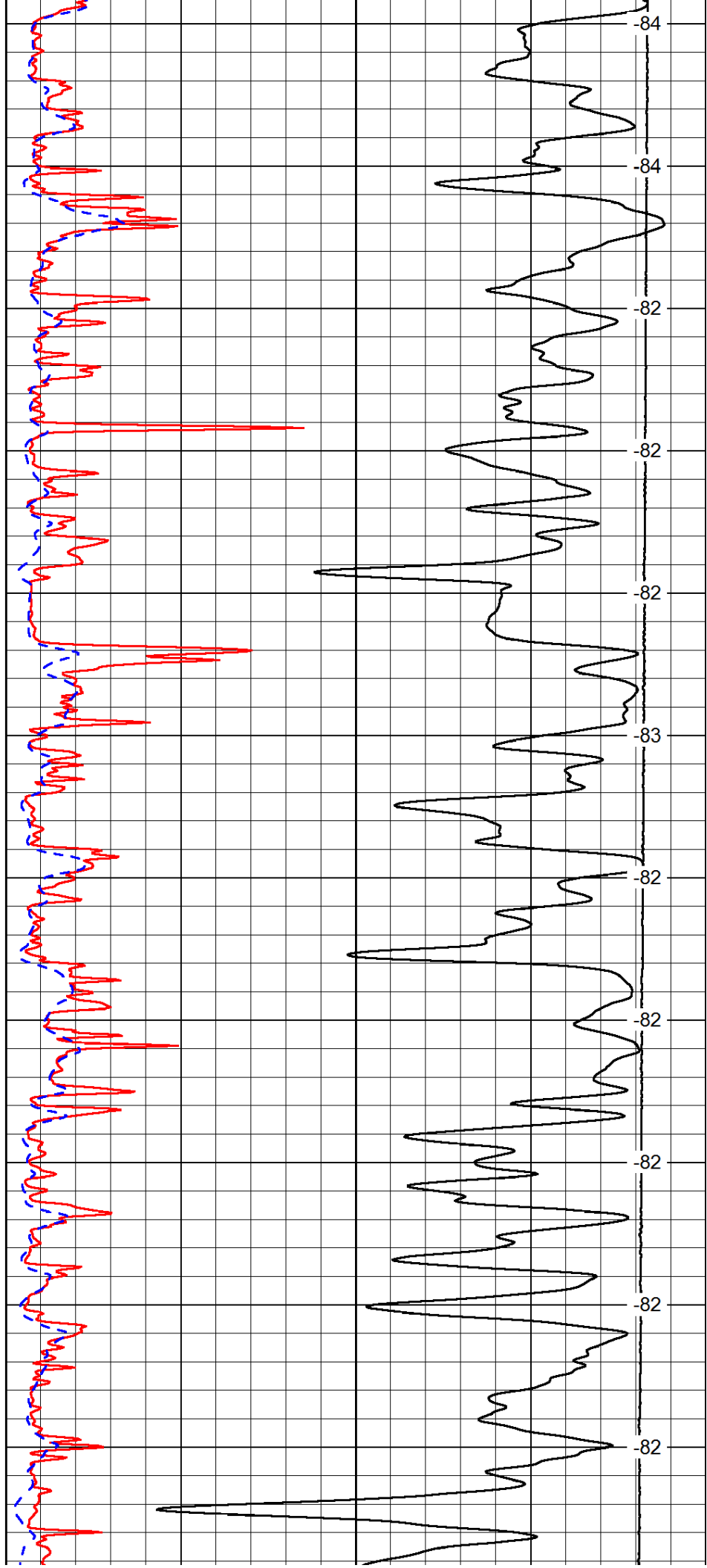
0	Shallow Resistivity	50	LSPD
0	Deep Resistivity	50	
1000	Conductivity		0
15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

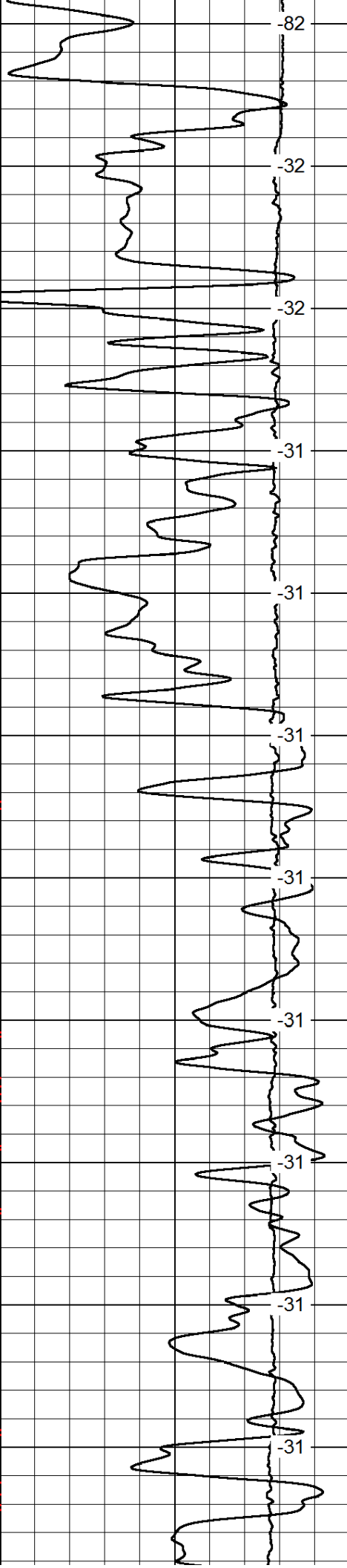
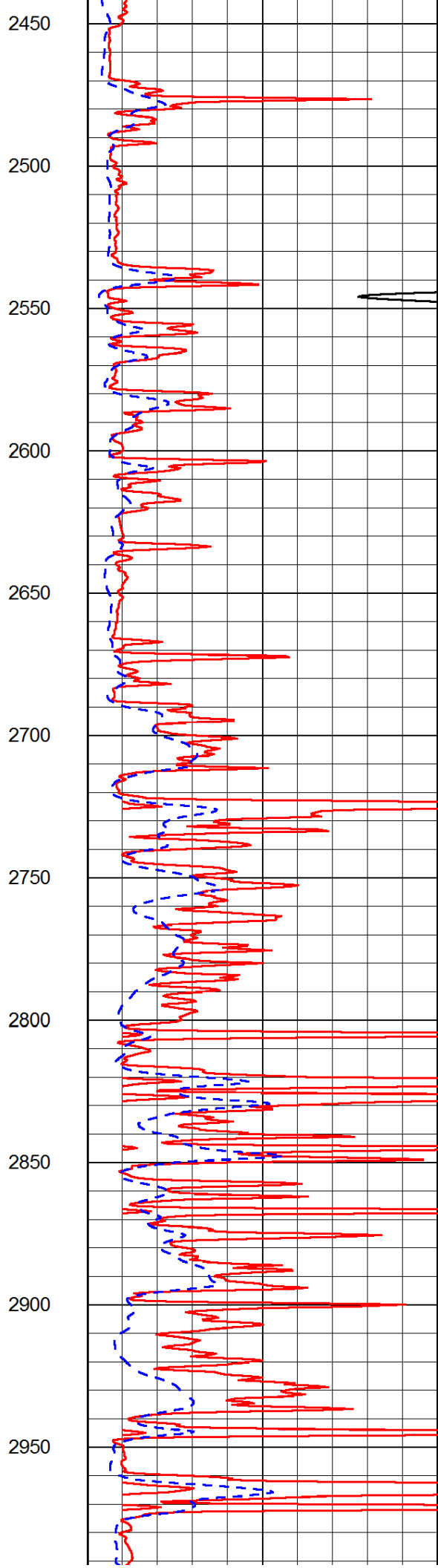
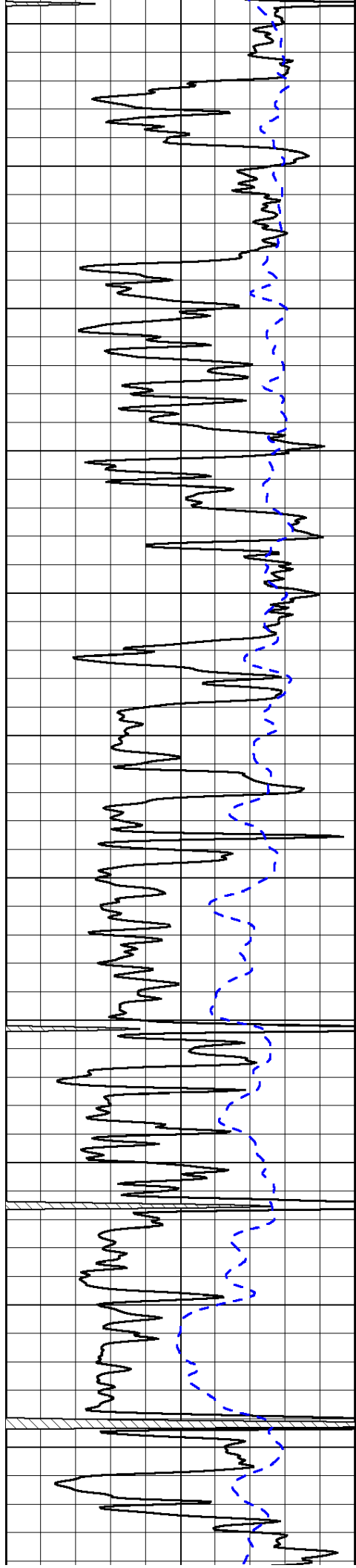


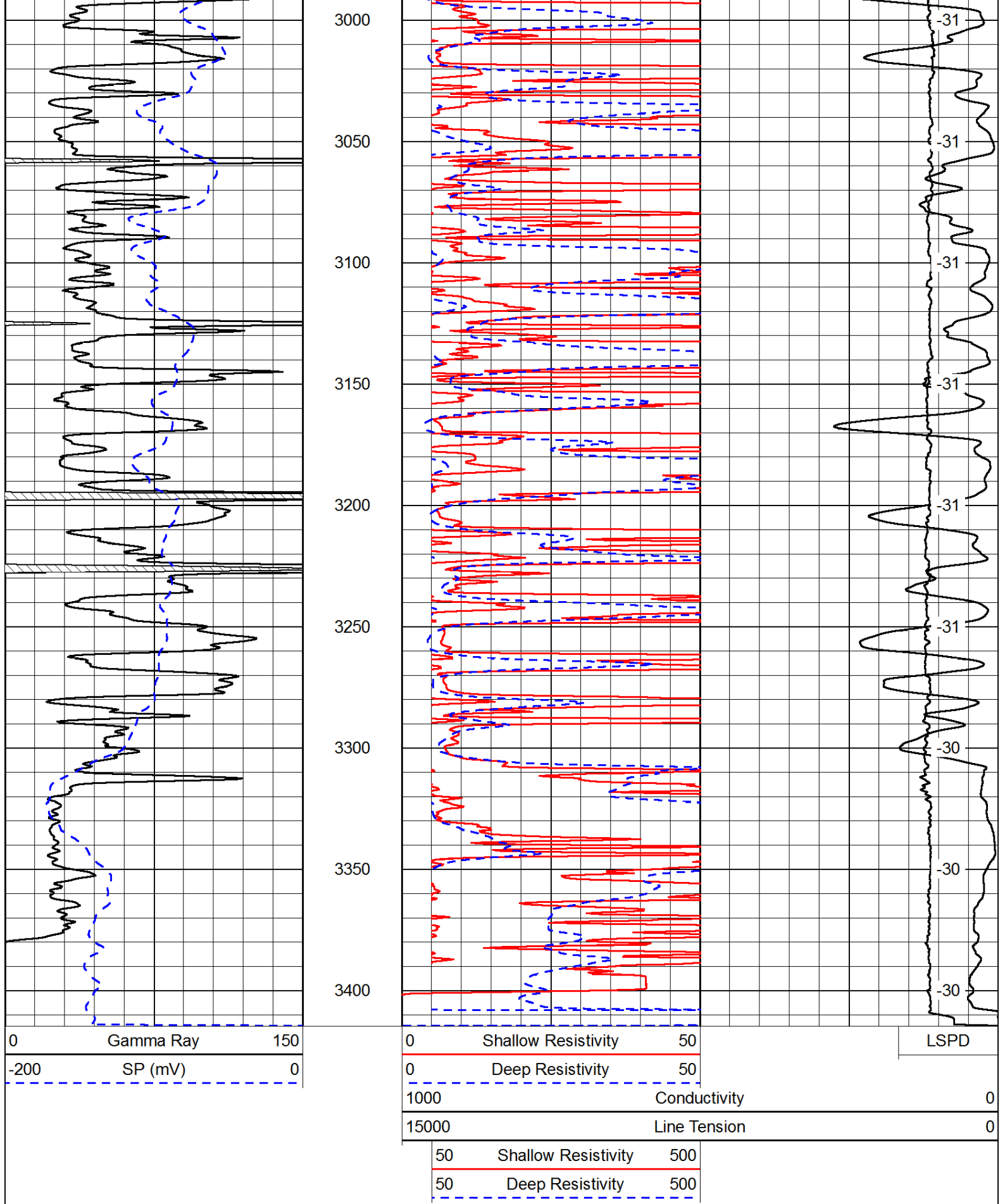




1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400

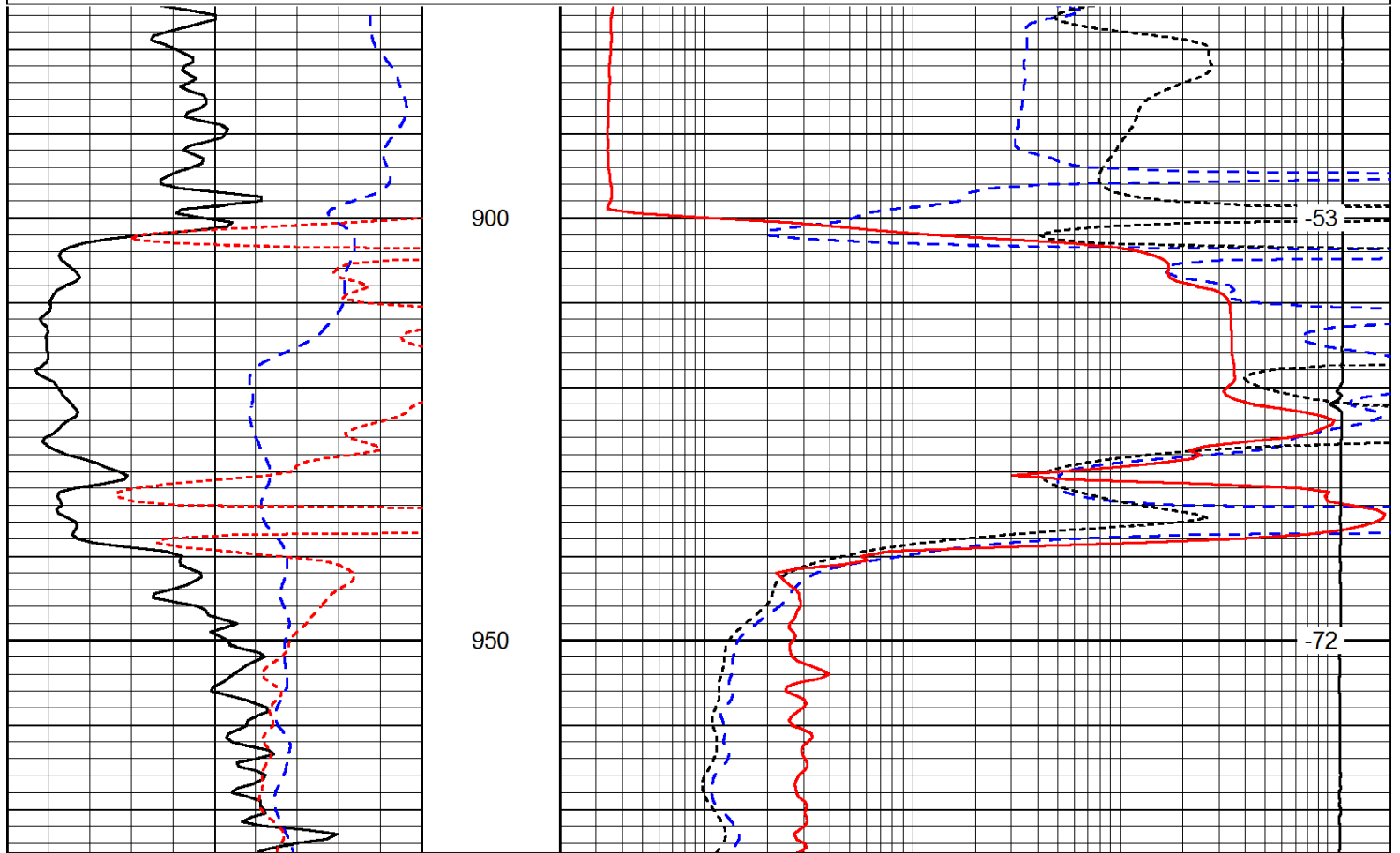






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 Created by:

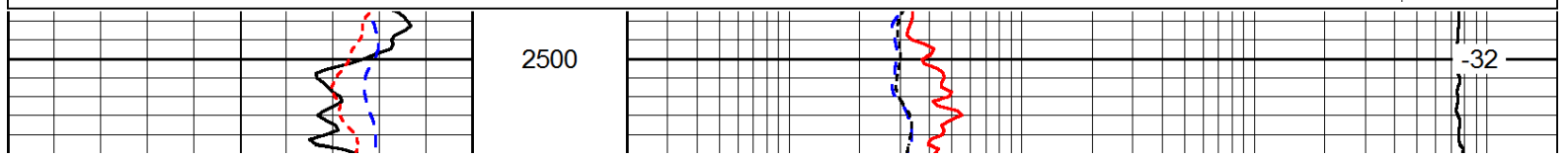
Charted by: Depth in Feet scaled 1:240					
0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD

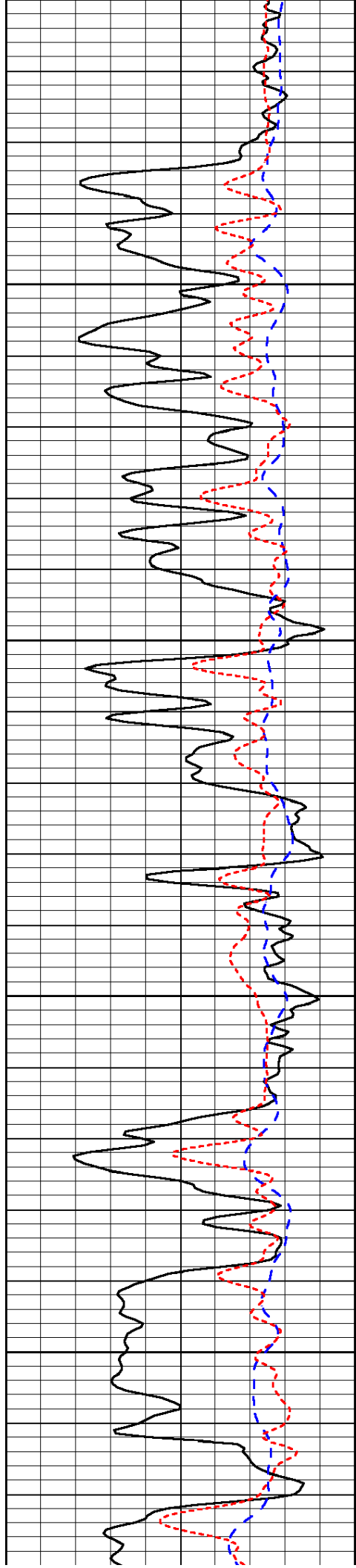


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-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD

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			15000	Line Tension	0
					LSPD



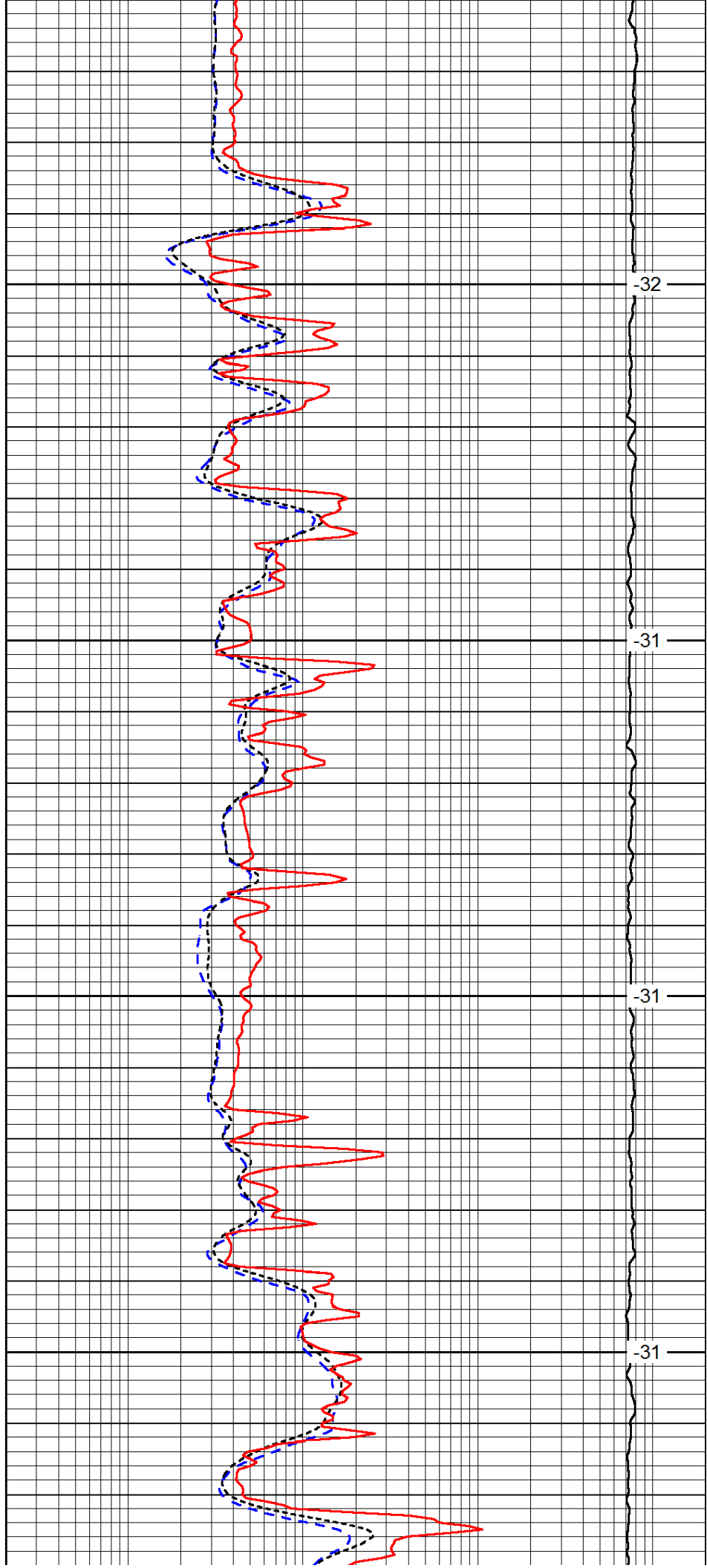


2550

2600

2650

2700

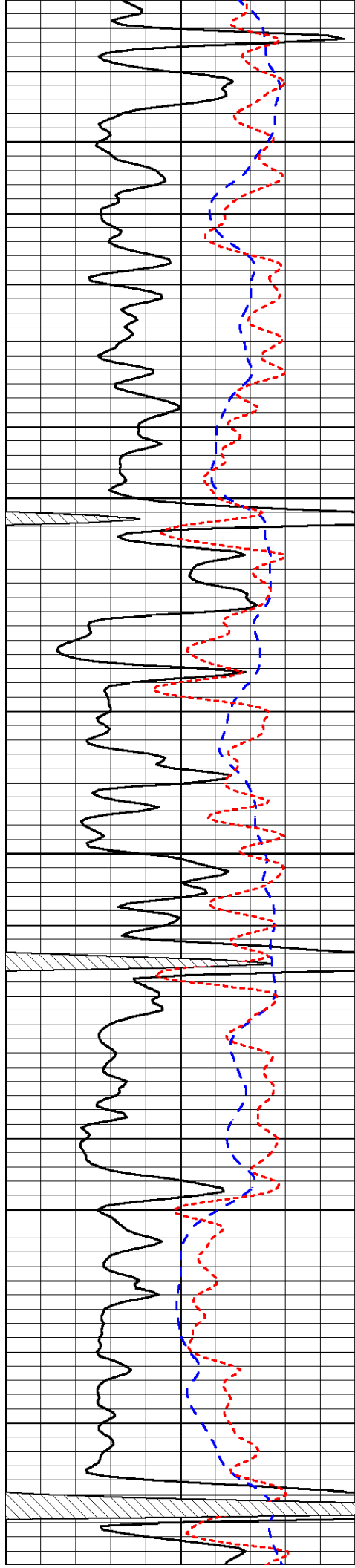


-32

-31

-31

-31



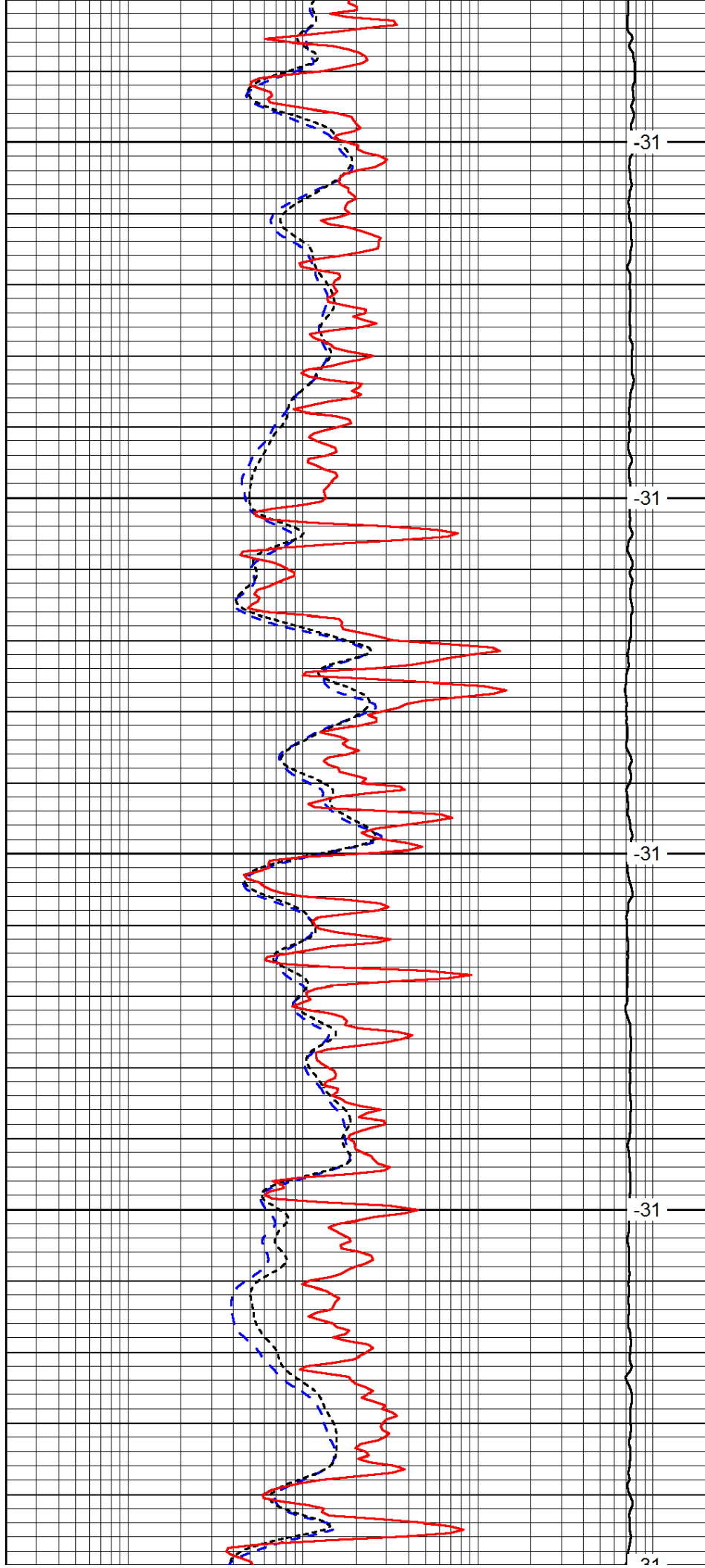
2750

2800

2850

2900

2950



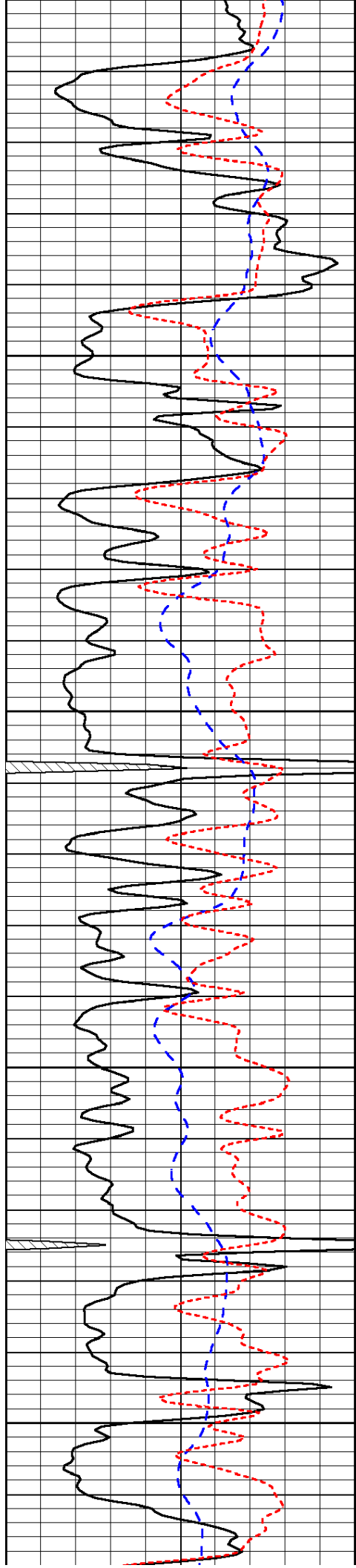
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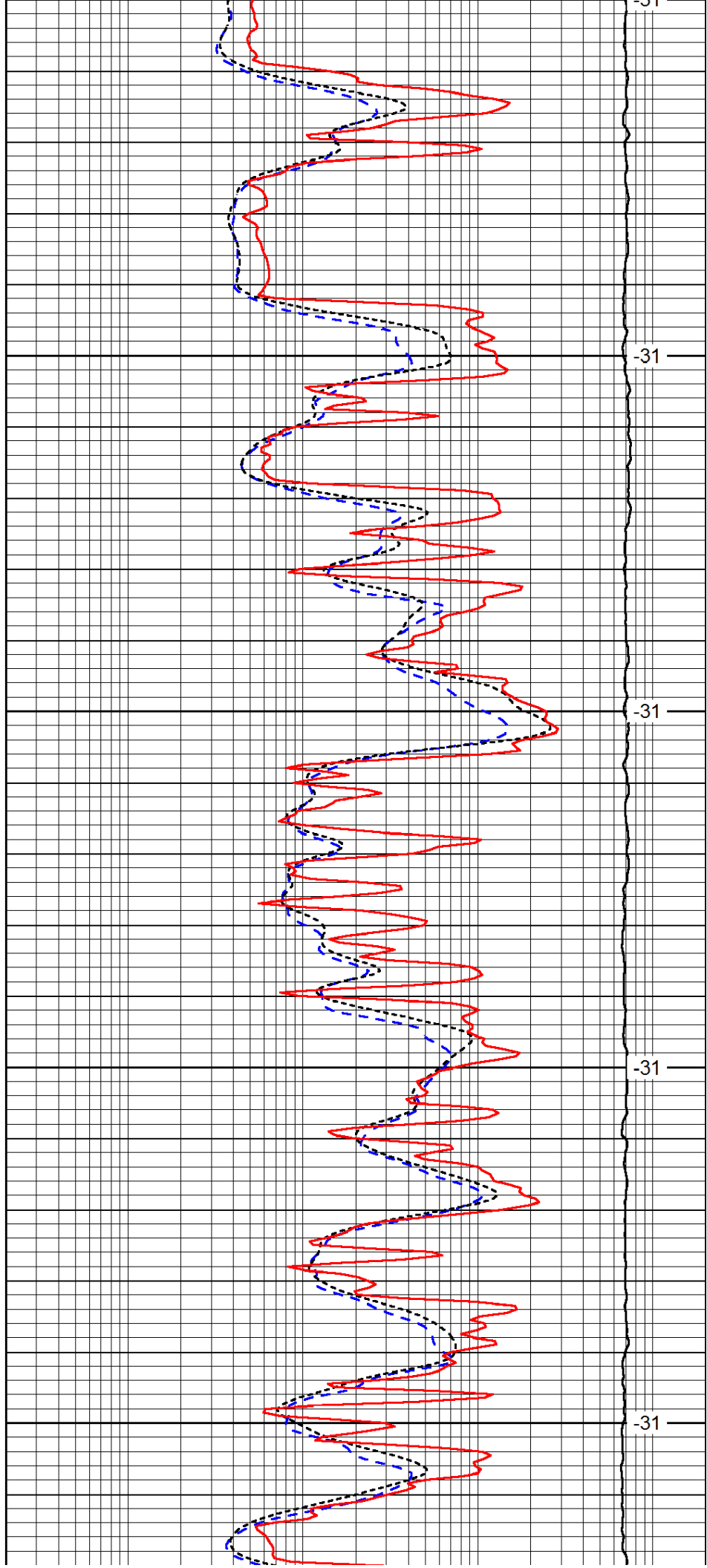
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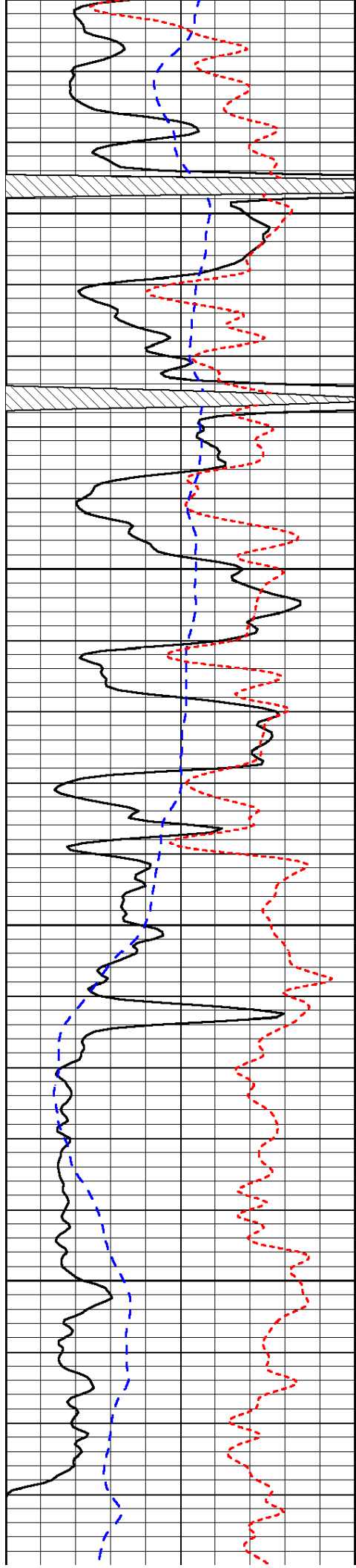
-31



2950
3000
3050
3100
3150



-31
-31
-31
-31

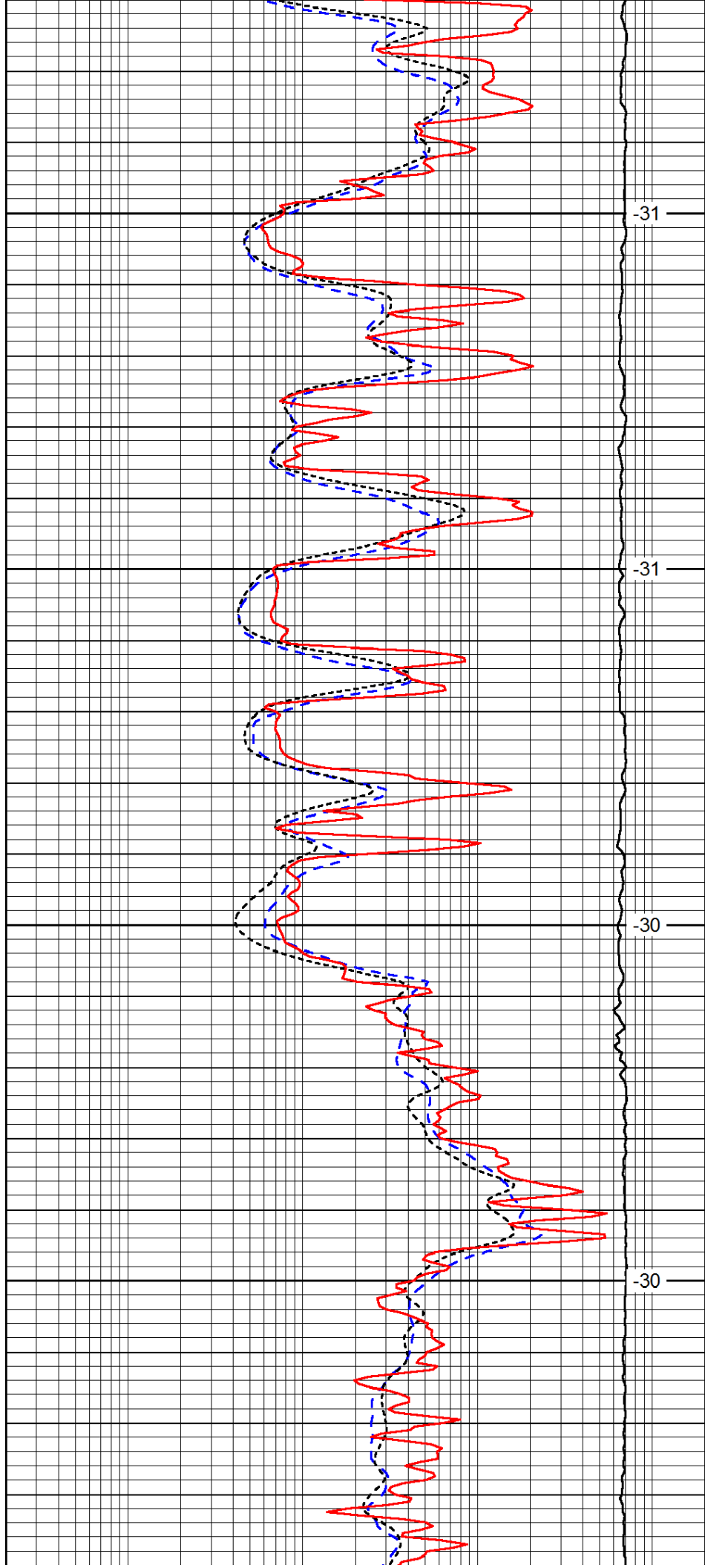


3200

3250

3300

3350

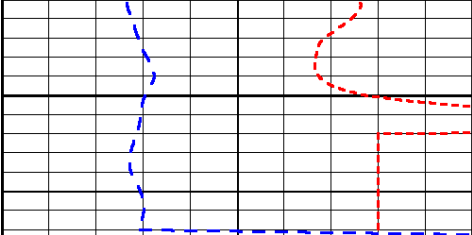


-31

-31

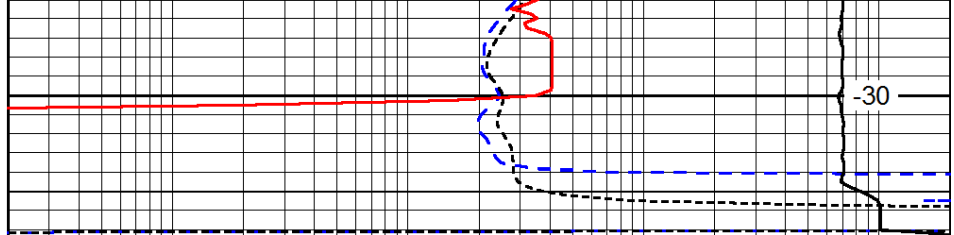
-30

-30



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

3400



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

LSPD