PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-145-21758-00-00

Company Downing-Nelson Oil Company, Inc.

Well Meckfessel Trust # 1-17

Field Badger Hill East

County Pawnee State Kansas

Location 1040' FNL & 2005' FEL

Sec: 17 Twp: 23 S Rge: 18 W

Other Services
CNL/CDL
MEL

Elevation
K.B. 2190
D.F.
G.L. 2177

Permanent Datum	Ground Level	Elevation 2177	
Log Measured From	Kelly Bushing	13 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	06-04-2014		
Run Number	One		
Depth Driller	4590		
Depth Logger	4589		
Bottom Logged Interval	4588		
Top Log Interval	1250		
Casing Driller	8.625 @ 1298		
Casing Logger	1296		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	4000		
Density / Viscosity	9.4 | 50		
pH / Fluid Loss	9.5 | 9.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.55 @ 80		
Rmf @ Meas. Temp	0.41 @ 80		
Rmc @ Meas. Temp	0.74 @ 80		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.36 @ 122		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	122		
Equipment Number	15		
Location	Hays		
Recorded By	Y. Ruiz		
Witnessed By	Marc Downing		

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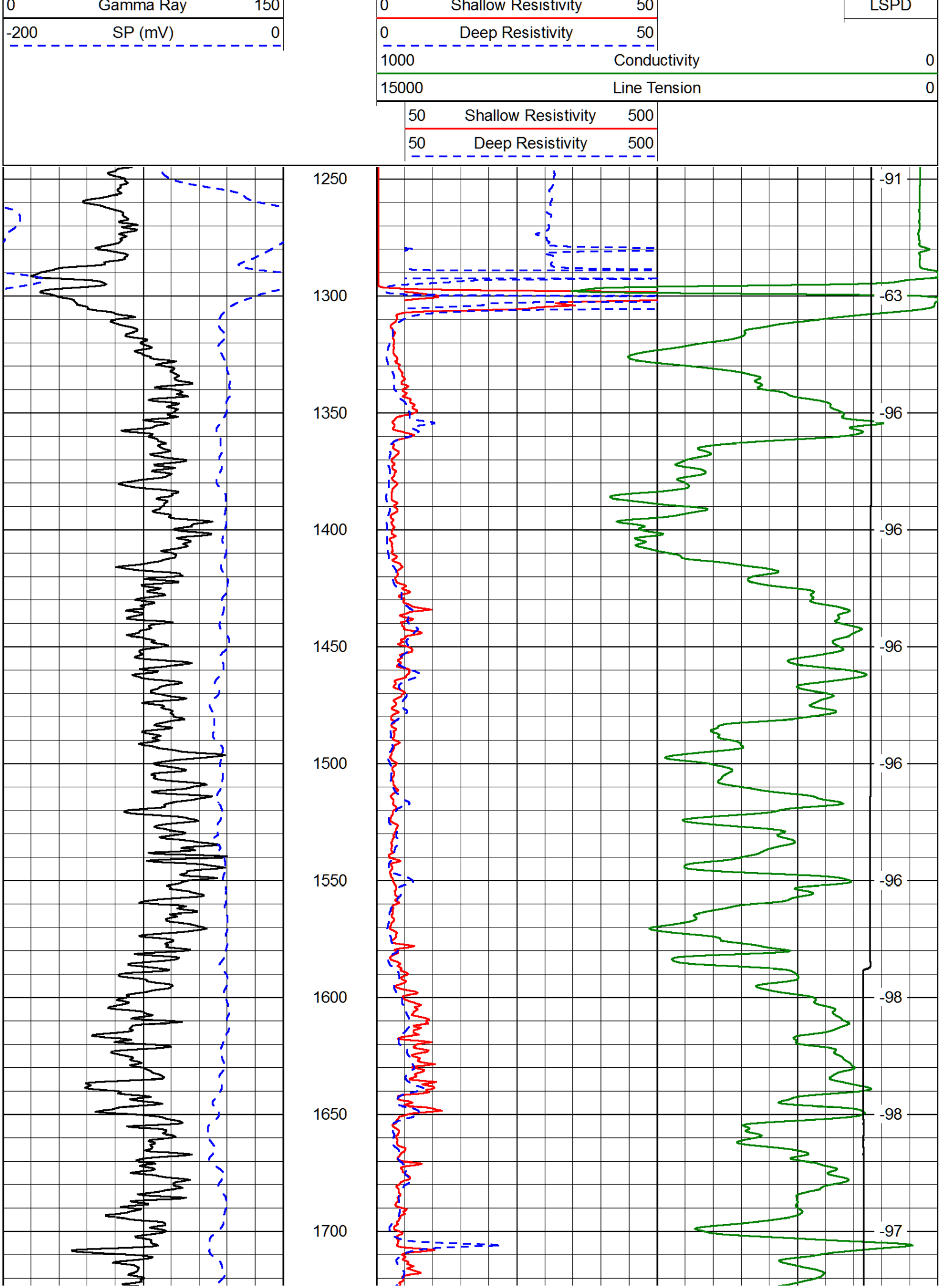
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

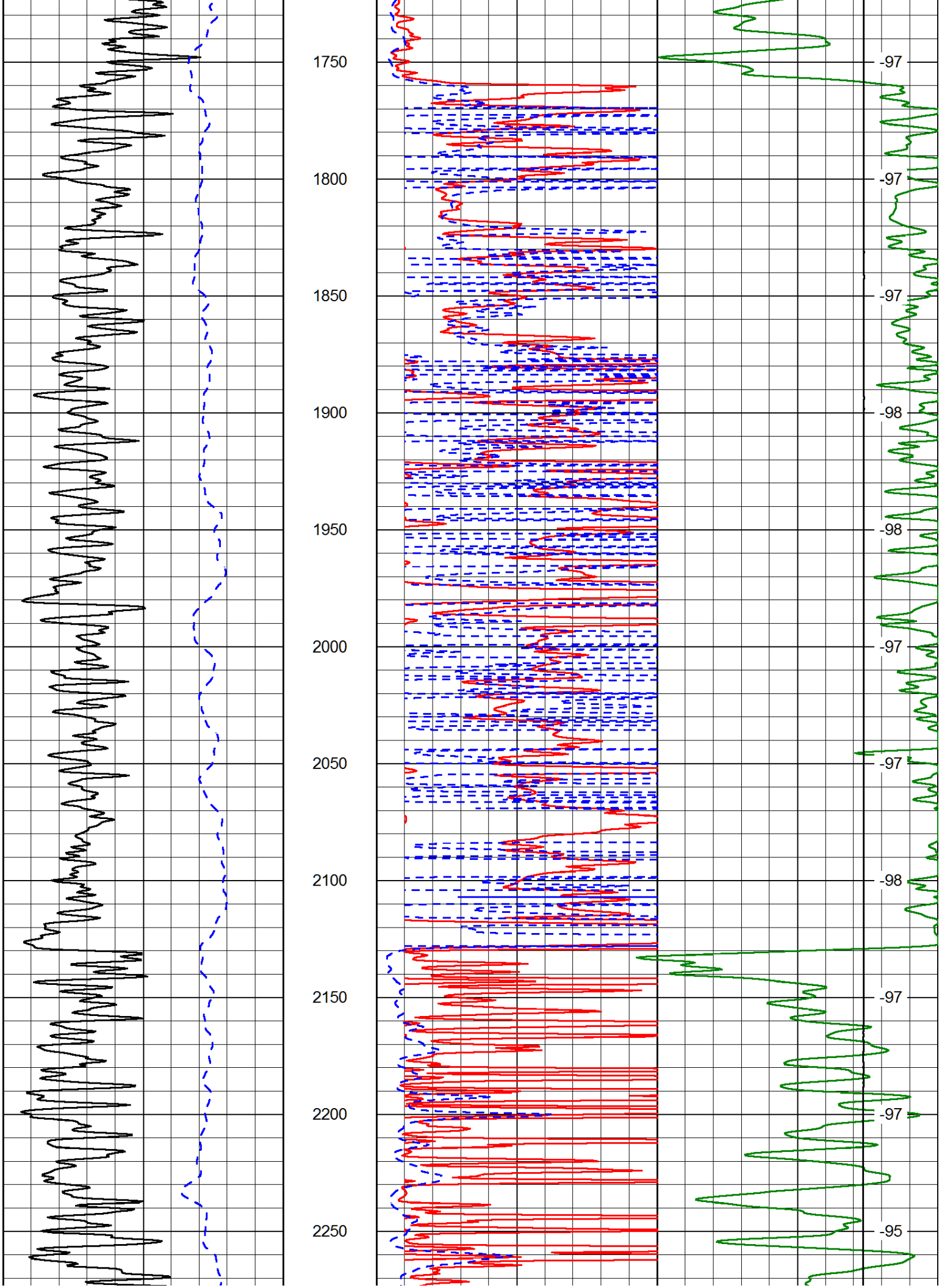
Comments

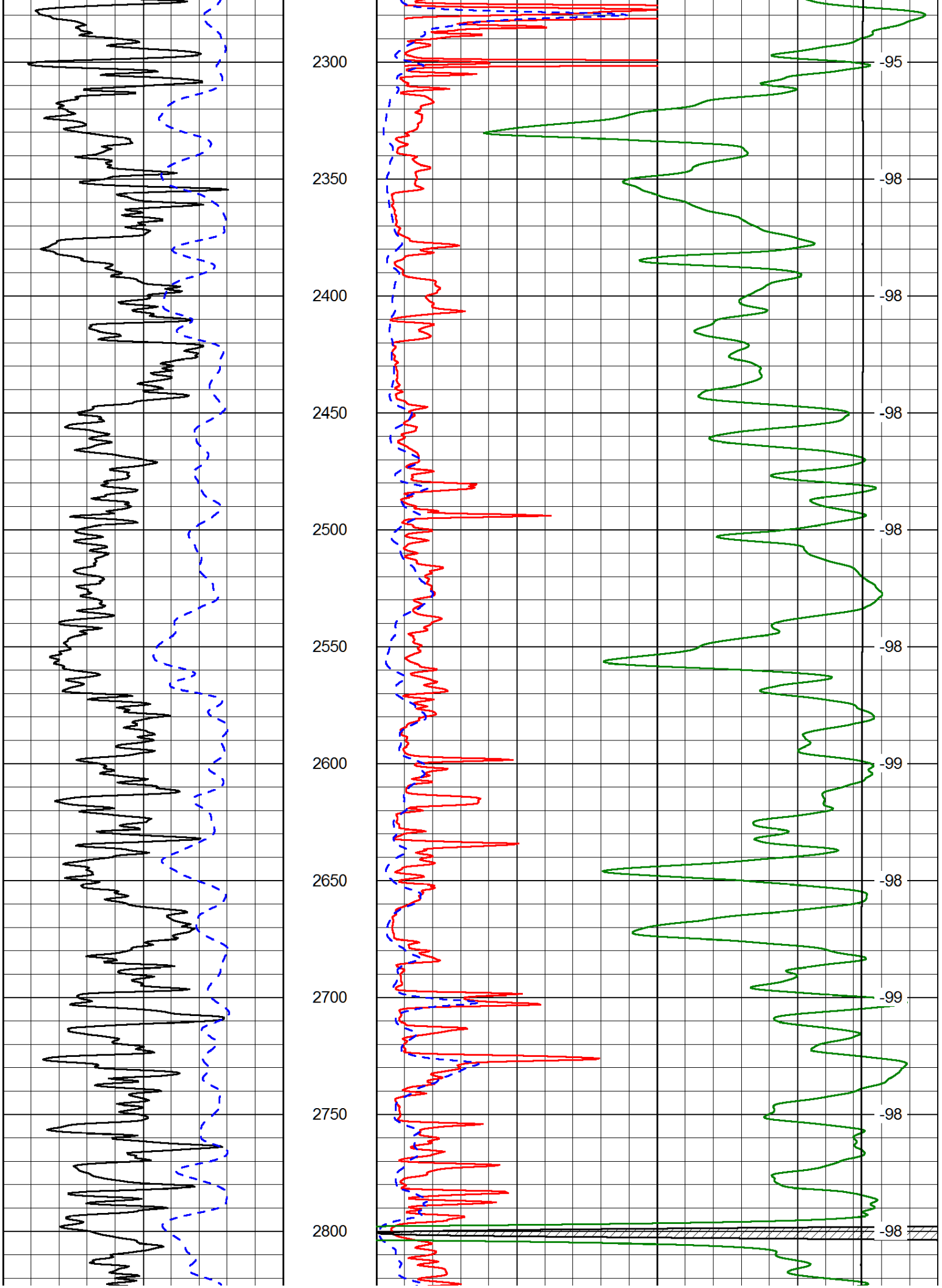
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(785) 625-3858

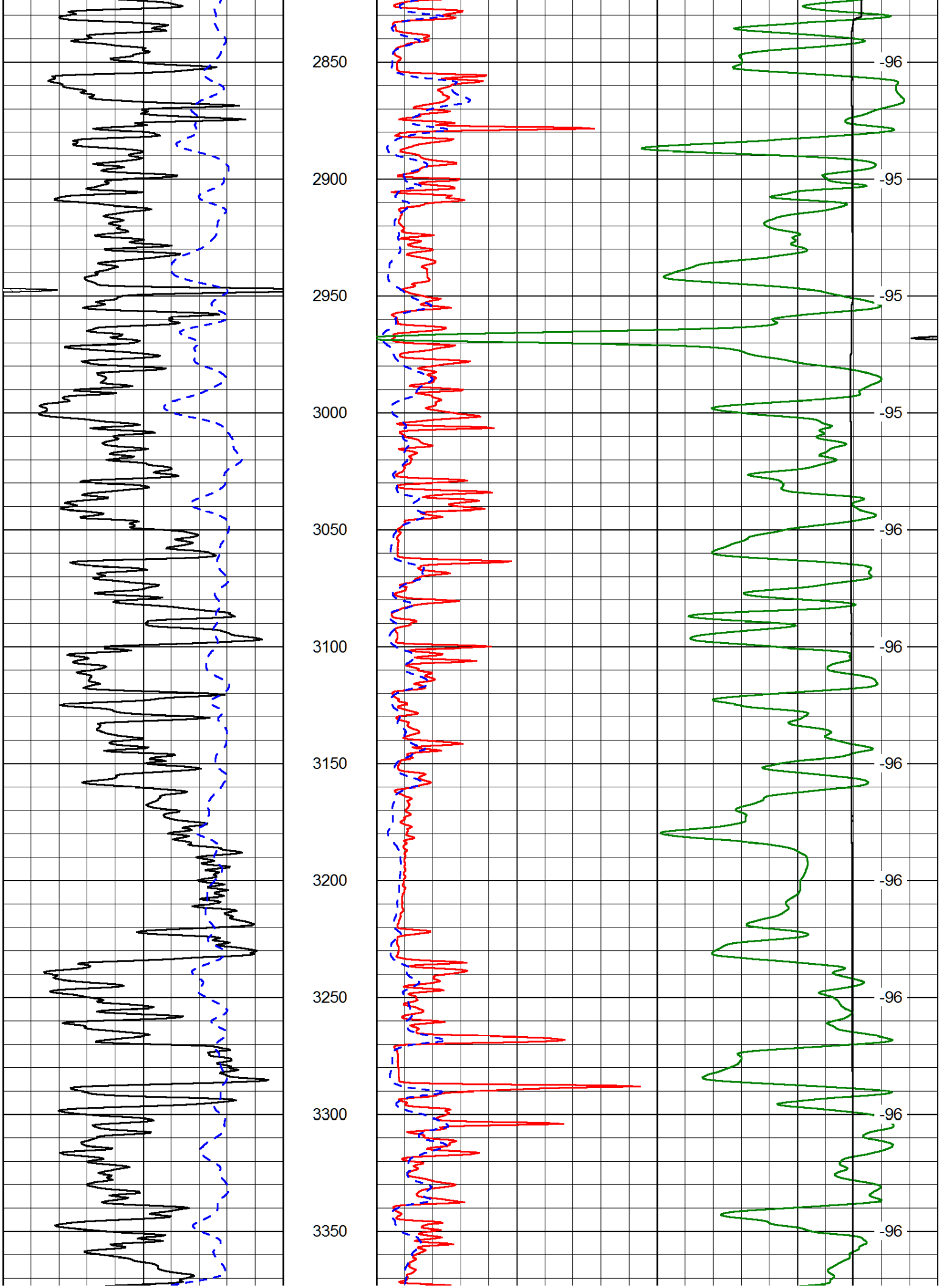
Hwy 183 & Hwy 1-56,
South to E Rd, 1/4 West,
North into

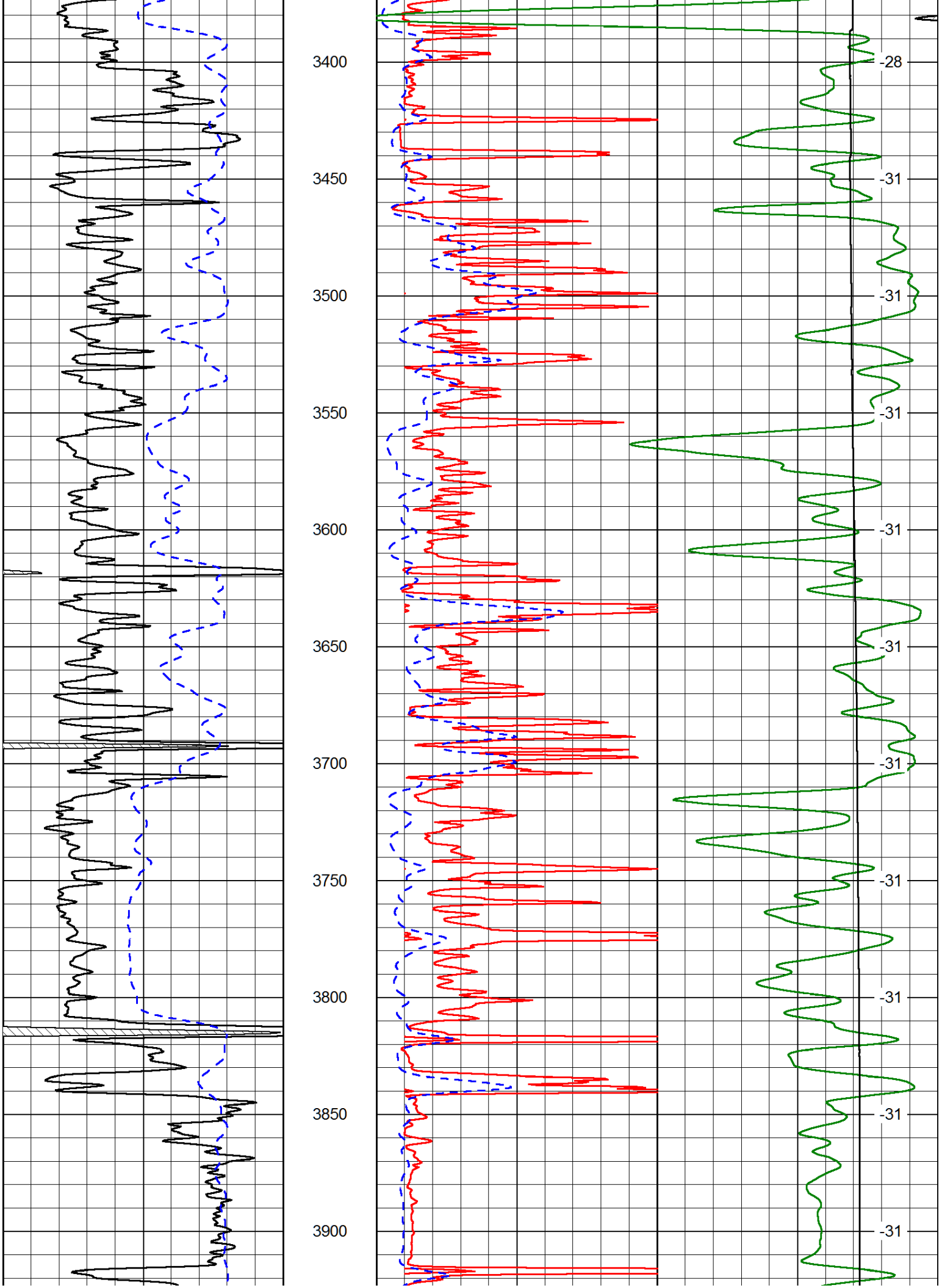
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Charted by:	Depth in Feet scaled 1:600

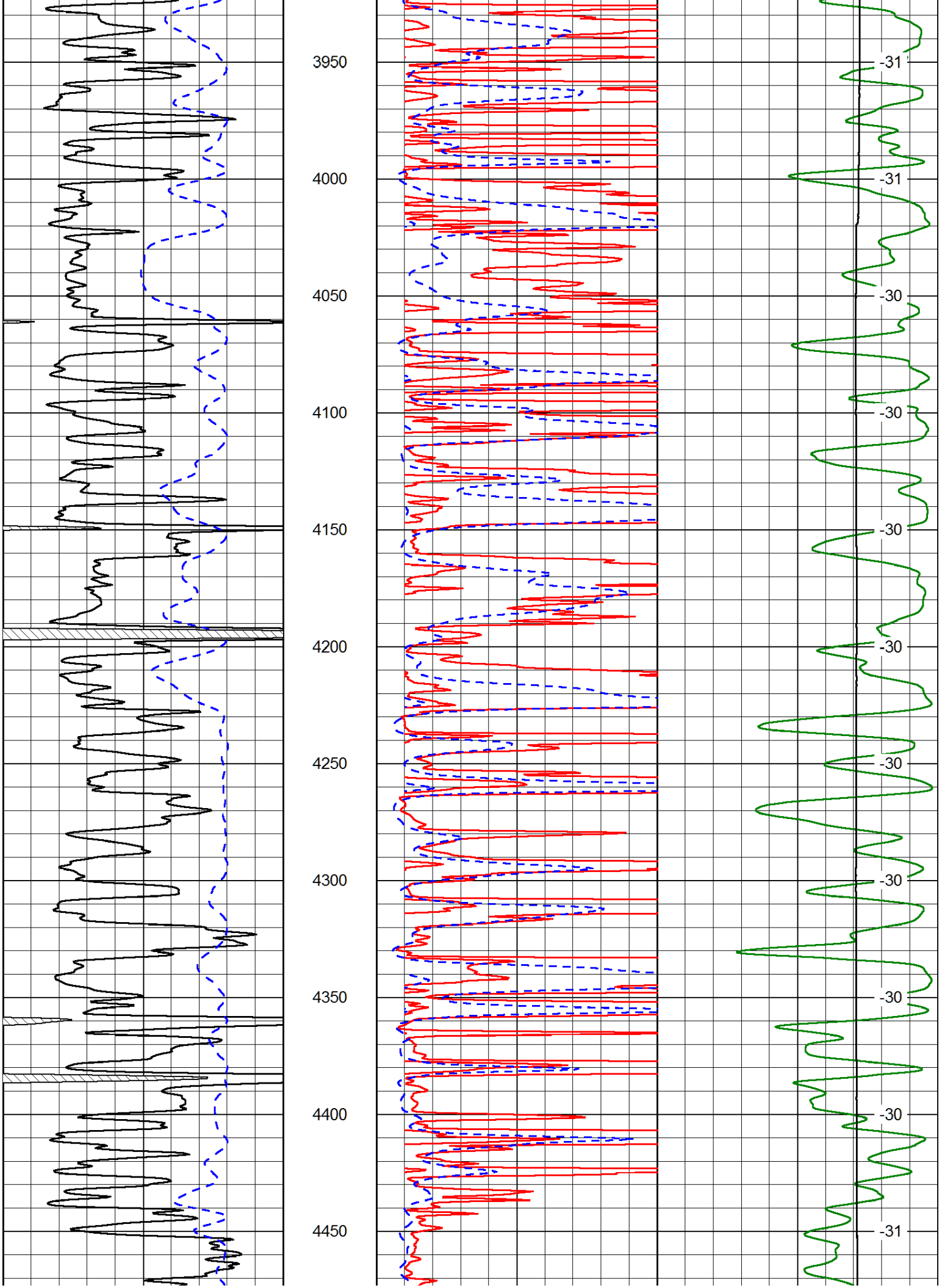

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
LSPD
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
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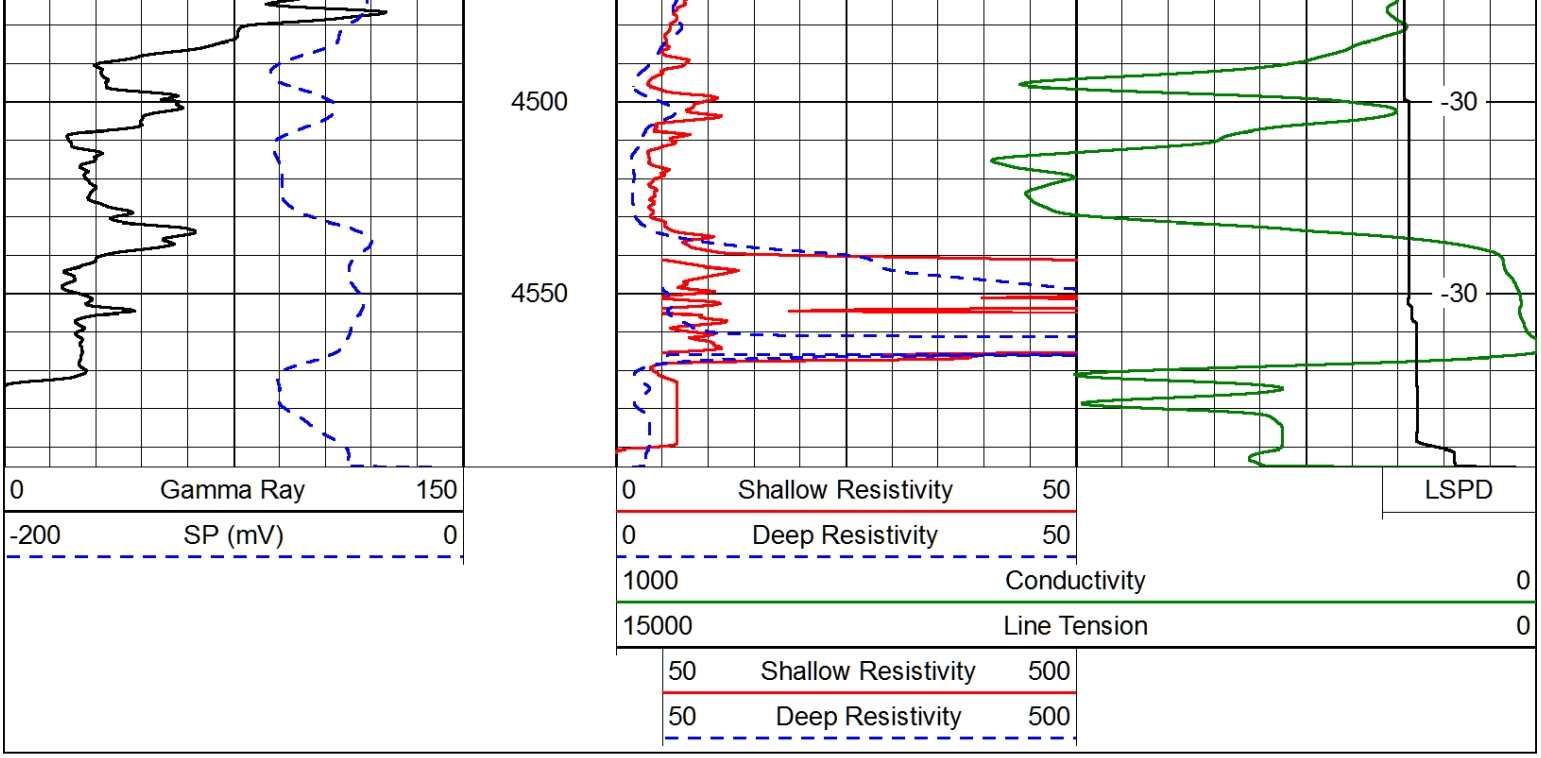

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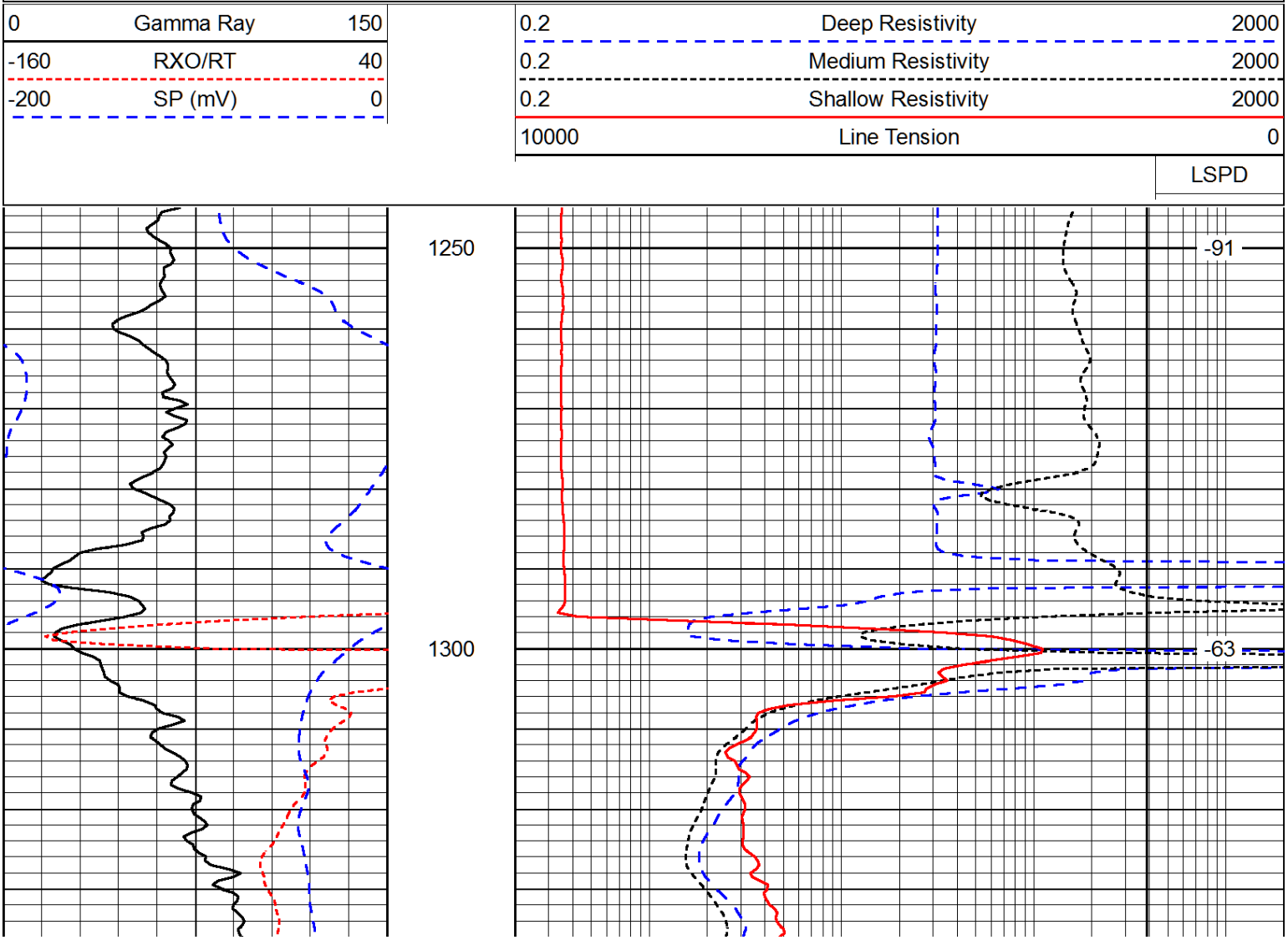

2850
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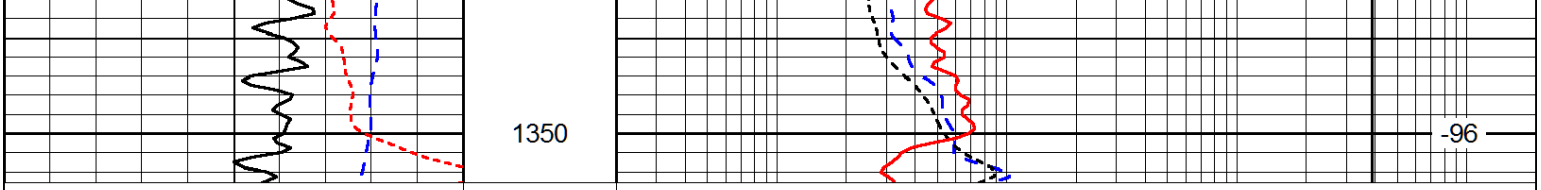

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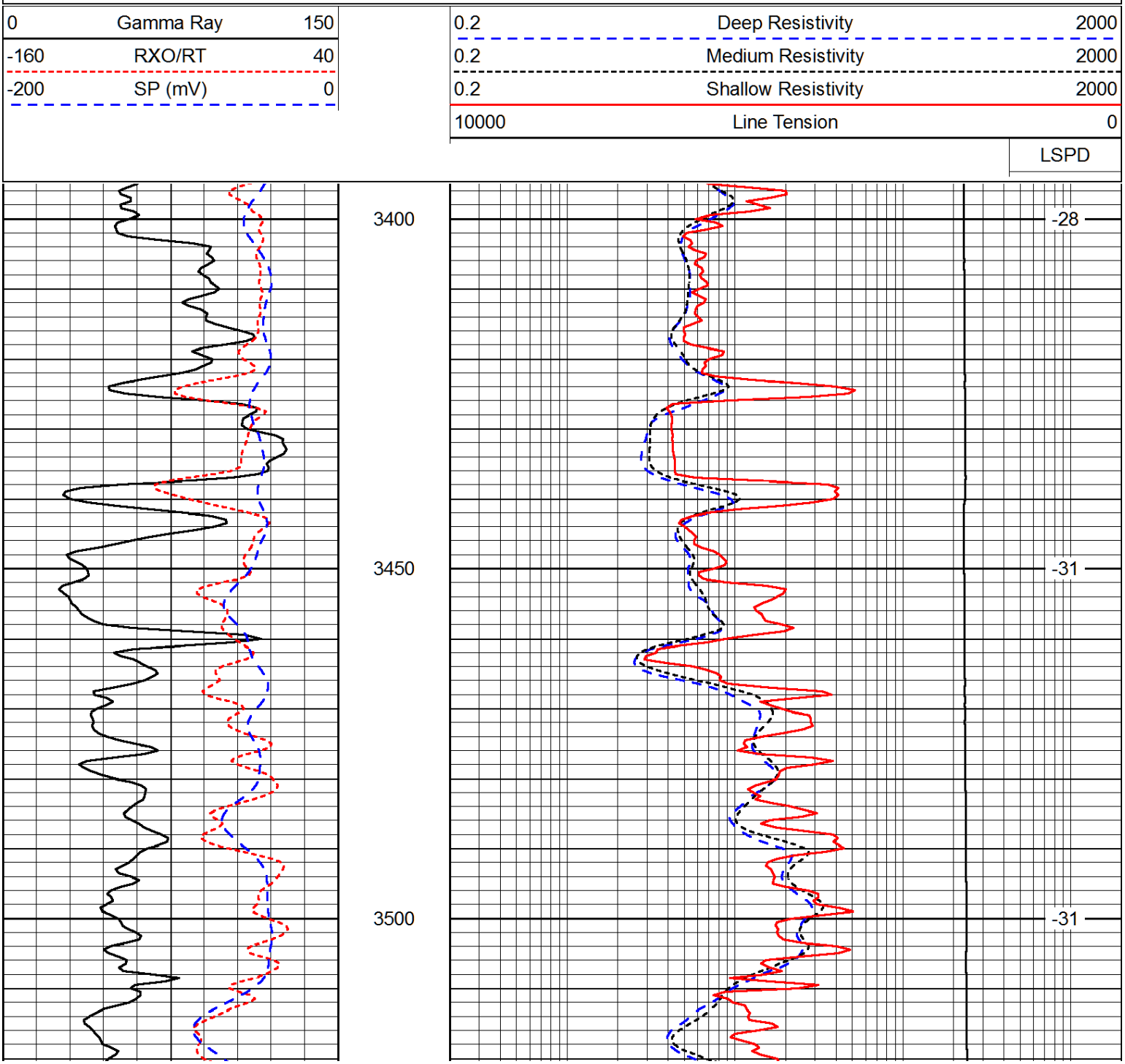


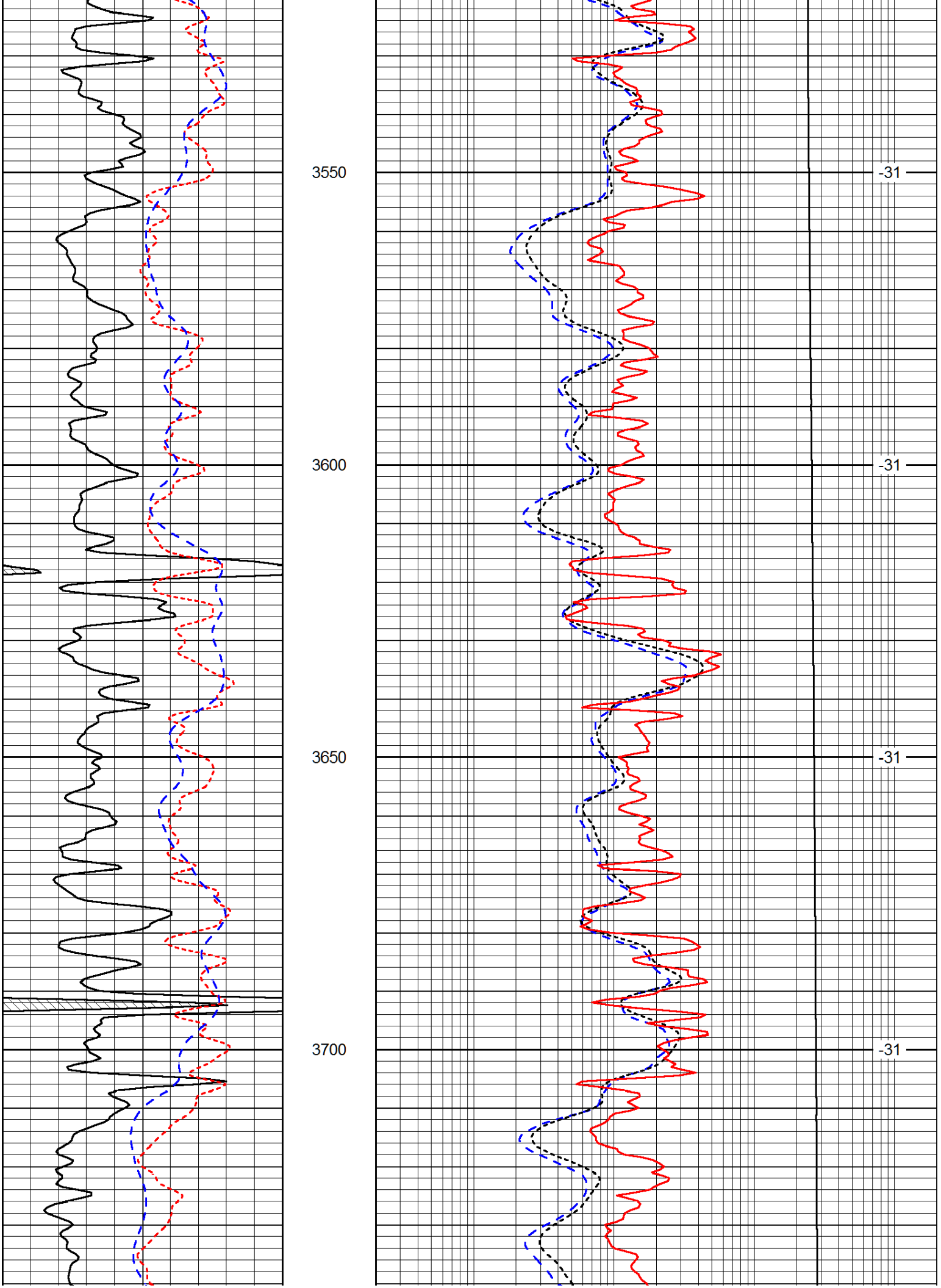
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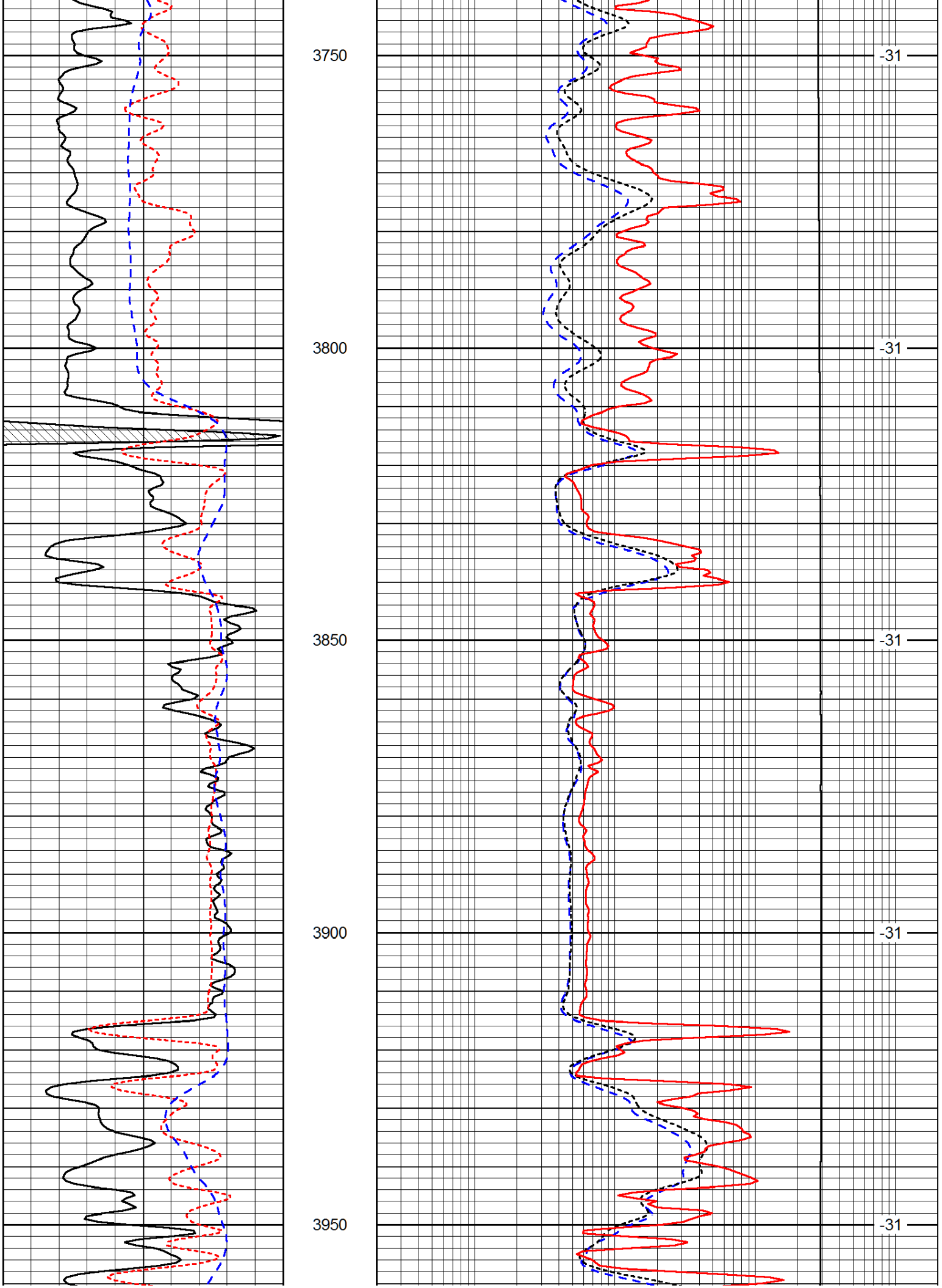


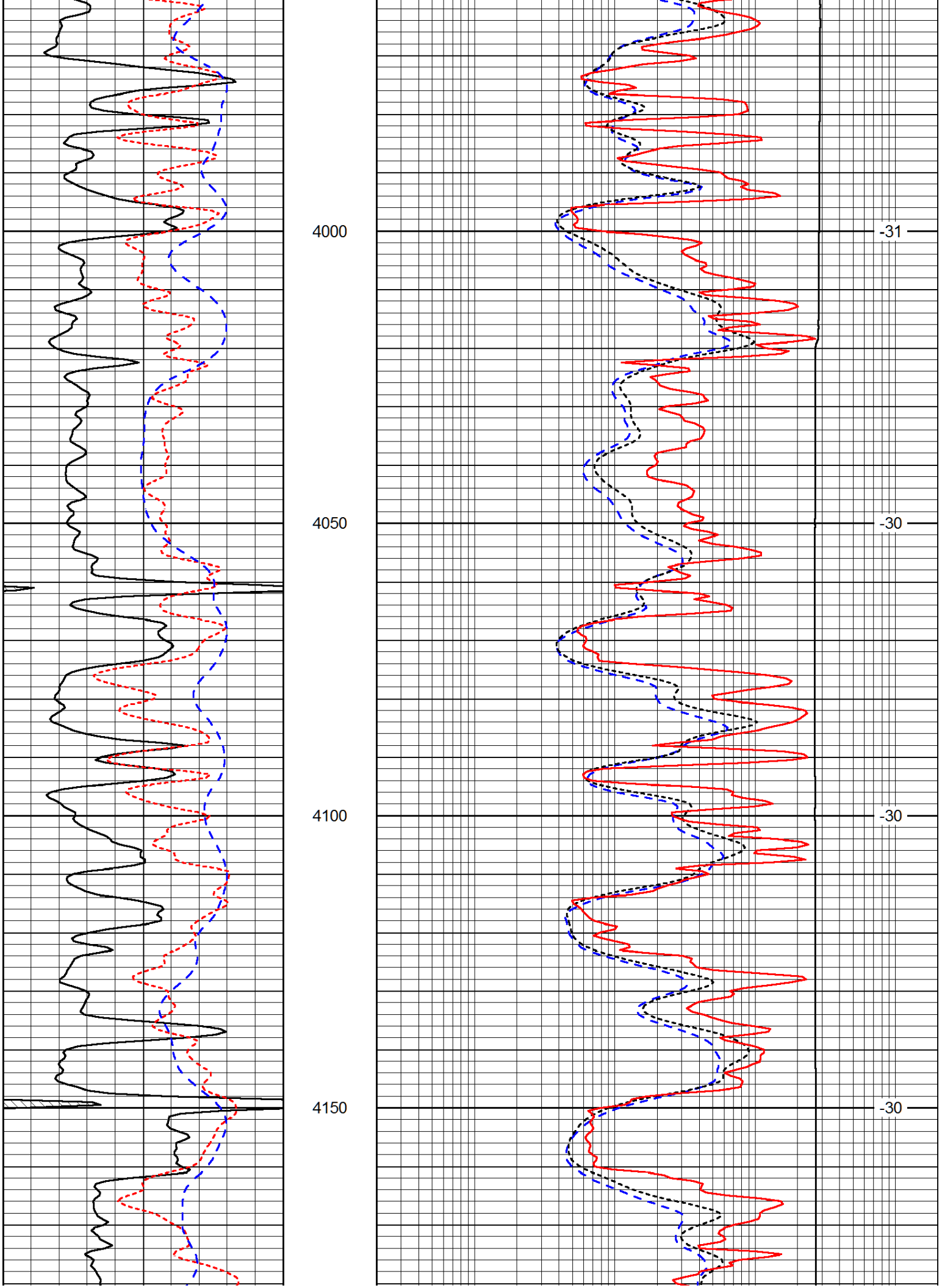


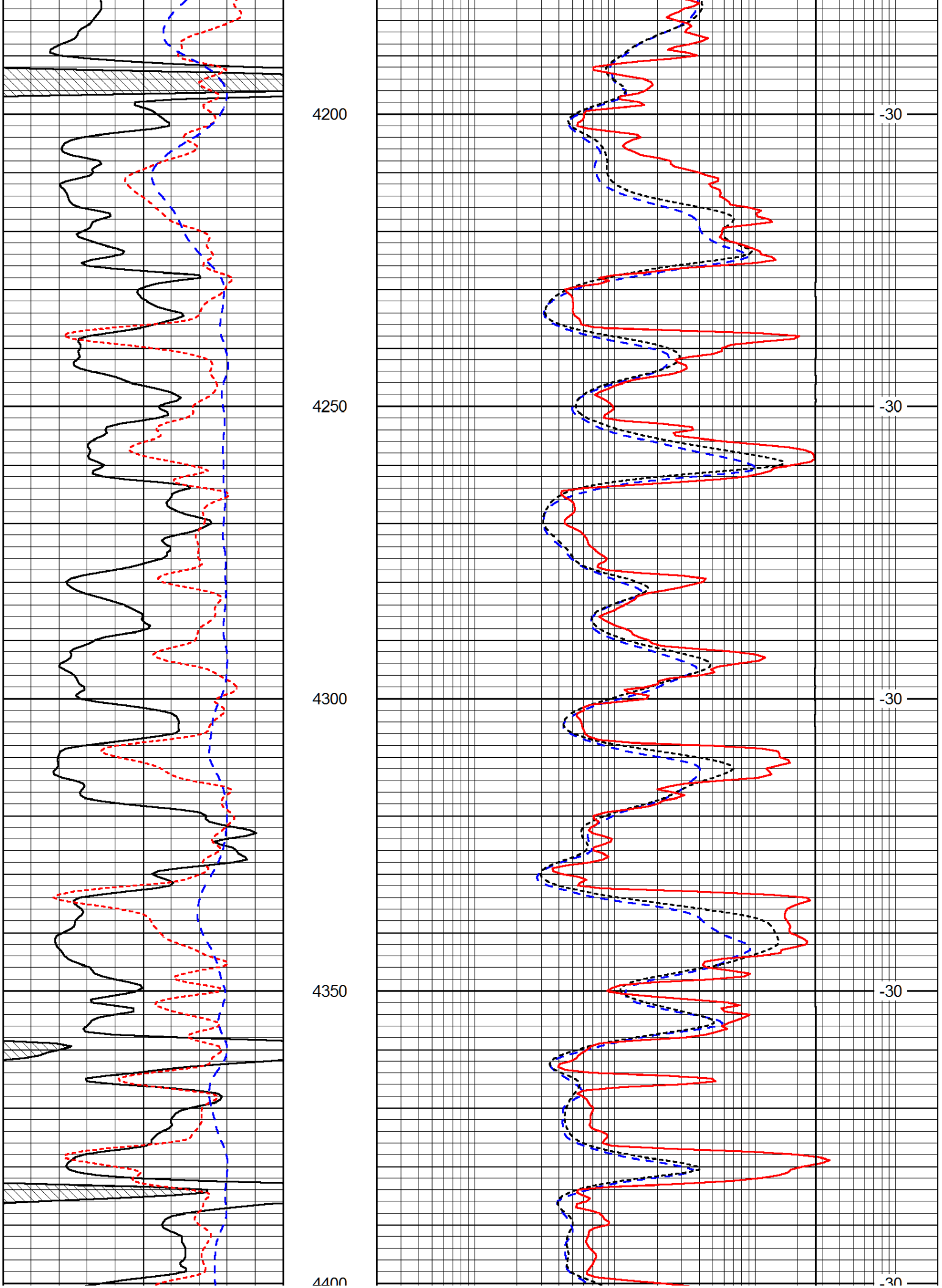
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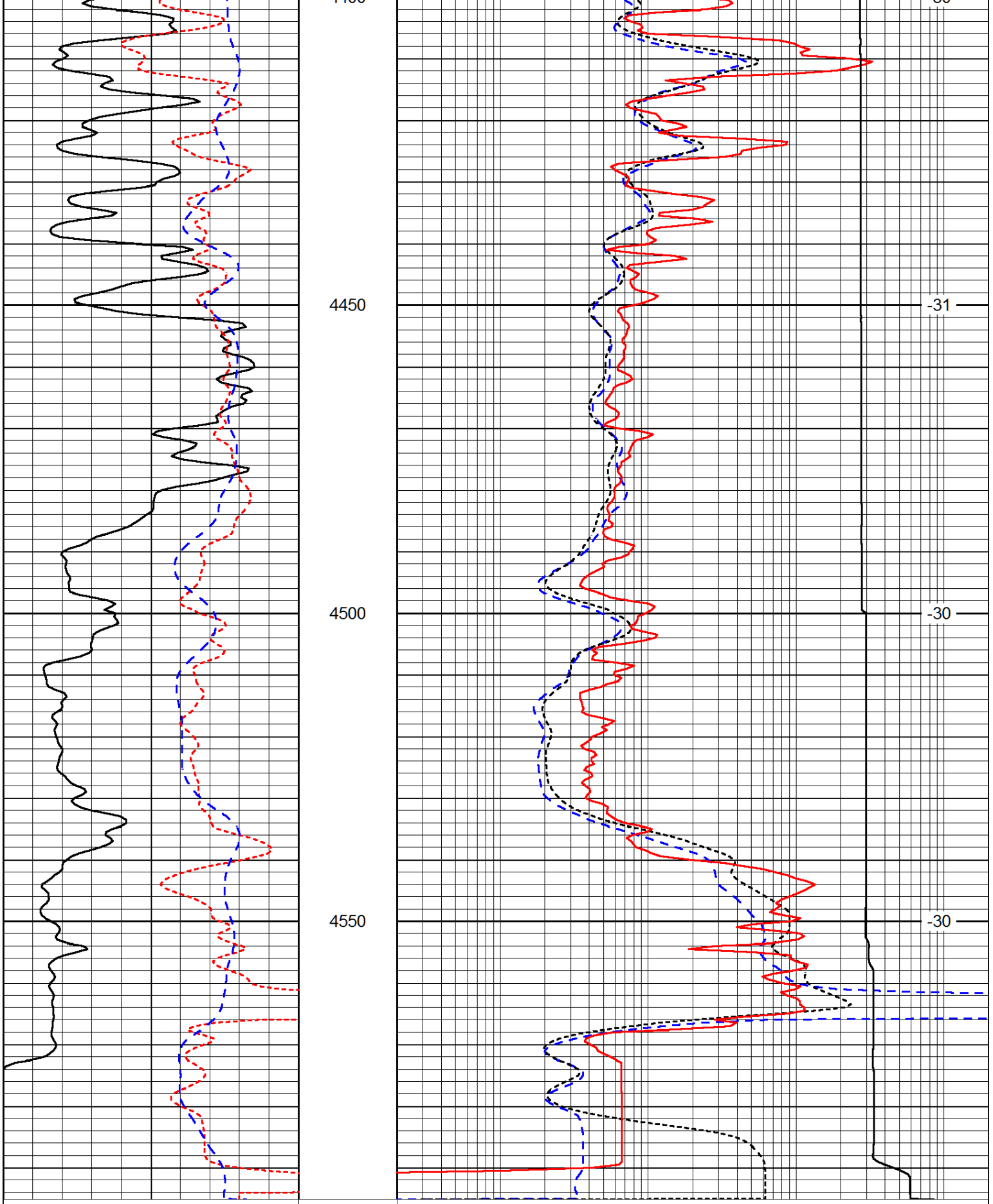



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4250
4300
4350
4400
-30
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-30
-30
-30



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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD