PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-171-20,336-00-01

Company Wausau Development Corporation

Well Suppes No. 22 - 3

Field Wildcat

County Scott State Kansas

Location 4620' FSL & 2310' FEL

Sec: 22 Twp: 19 S Rge: 31 W

Other Services
CNL/CDL
MEL

Elevation
K.B. 2964
D.F.
G.L. 2955

Permanent Datum Ground Level Elevation 2955
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	4/15/2013			
Run Number	One			
Depth Driller	4687			
Depth Logger	4686			
Bottom Logged Interval	4685			
Top Log Interval	300			
Casing Driller	8.625 @ 330			
Casing Logger	332			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	14300			
Density / Viscosity	8.9 33			
pH / Fluid Loss	N/A N/A			
Source of Sample	Flowline			
Rm @ Meas. Temp	.20 @ 57			
Rmf @ Meas. Temp	.15 @ 57			
Rmc @ Meas. Temp	.27 @ 57			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.09 @ 123			
Operating Rig Time	4 Hours			
Max. Rec. Temp. F	123			
Equipment Number	17			
Location	Hays			
Recorded By	D. Martin			
Witnessed By	Dwight Brehm			

<<< Fold Here >>>

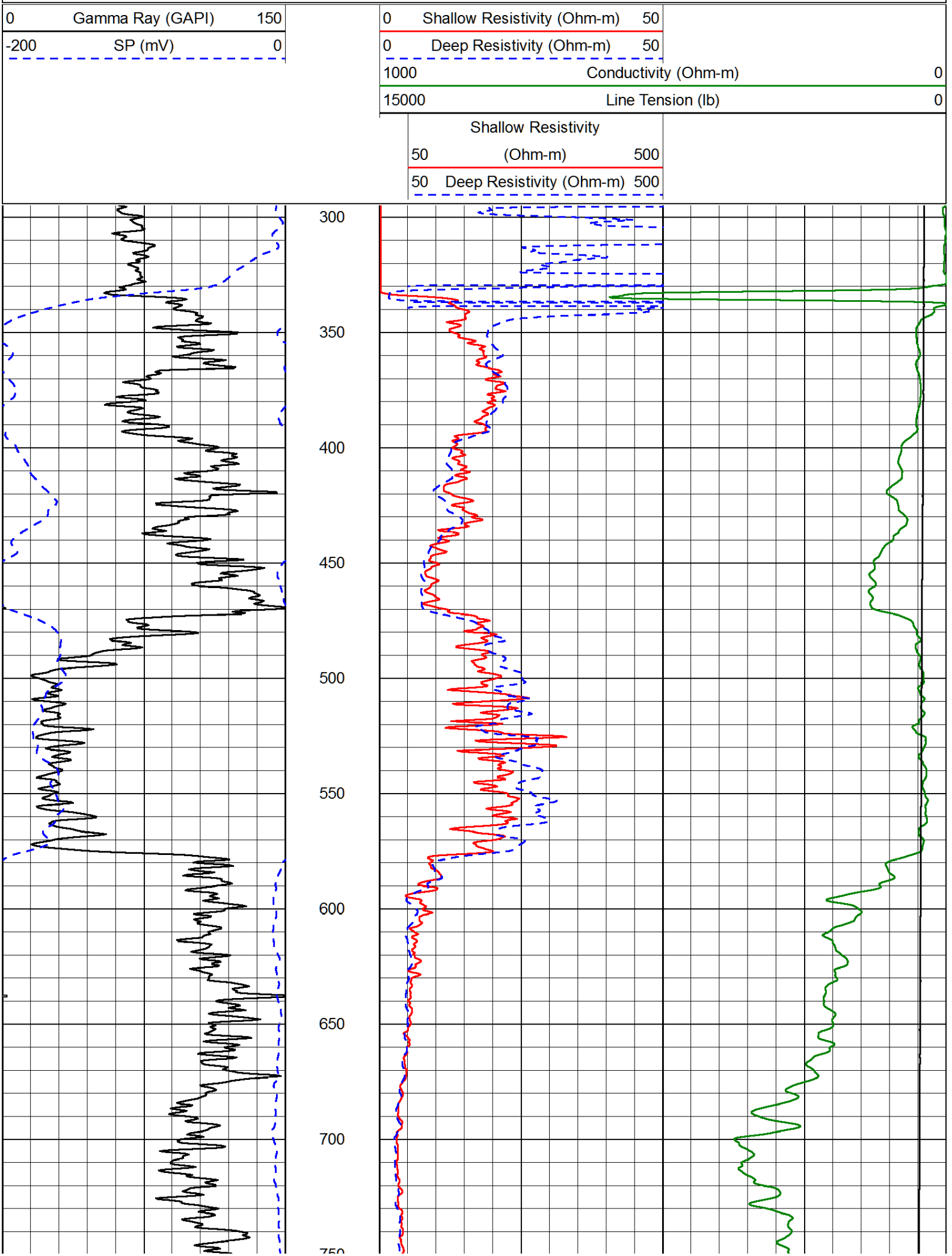
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

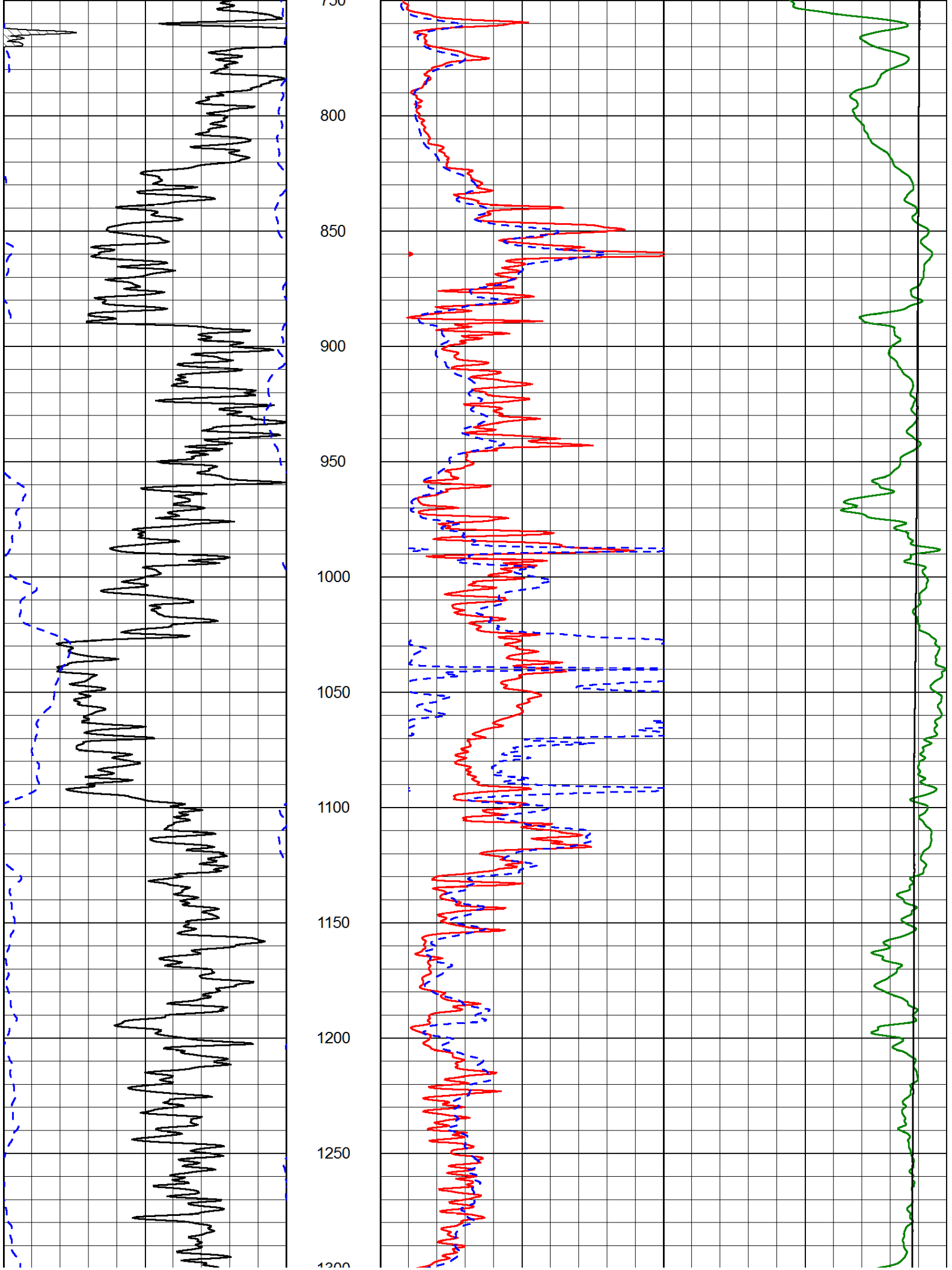
Comments

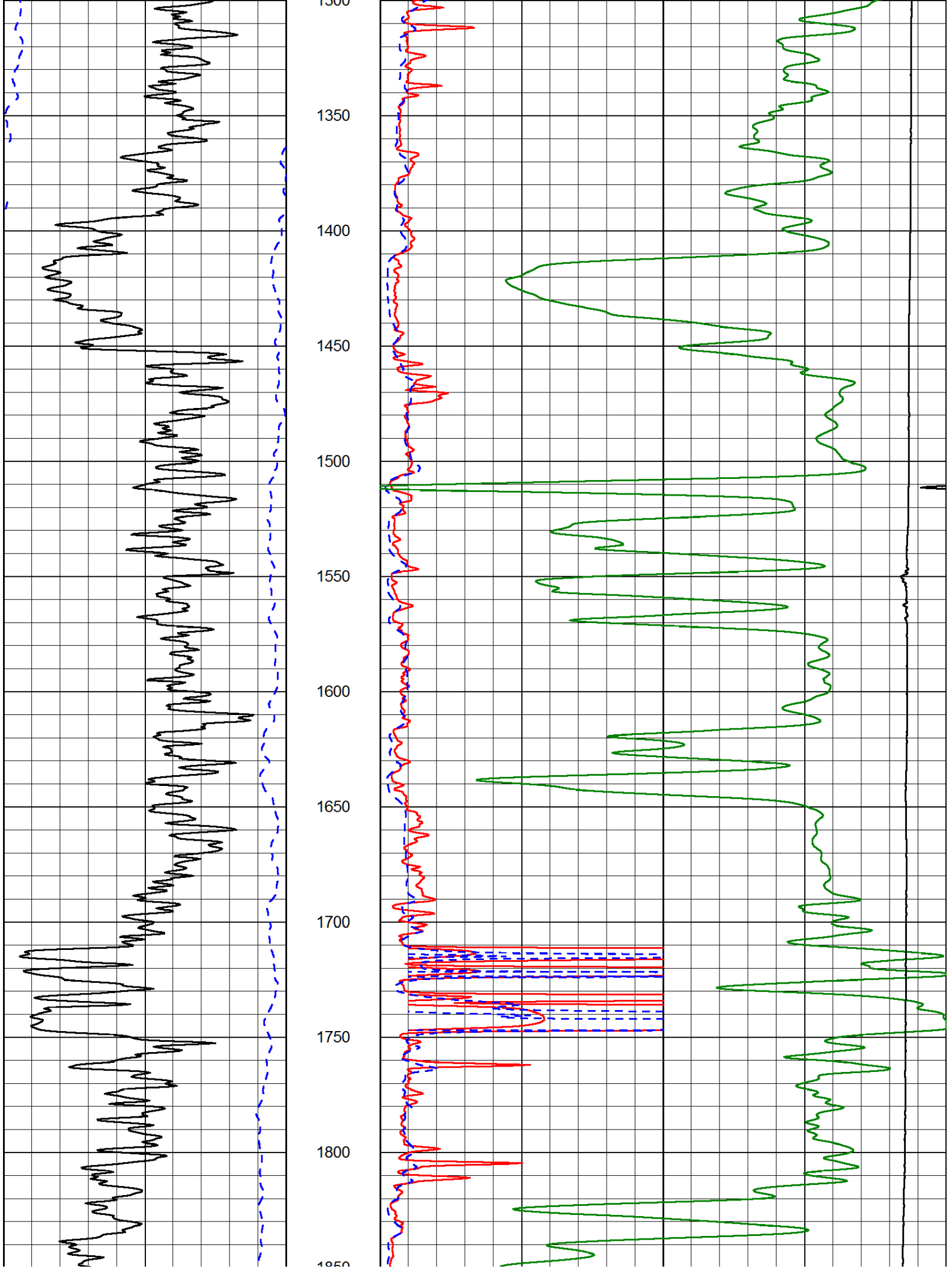
Thank you for using Log-Tech, Inc.
(785) 625-3858

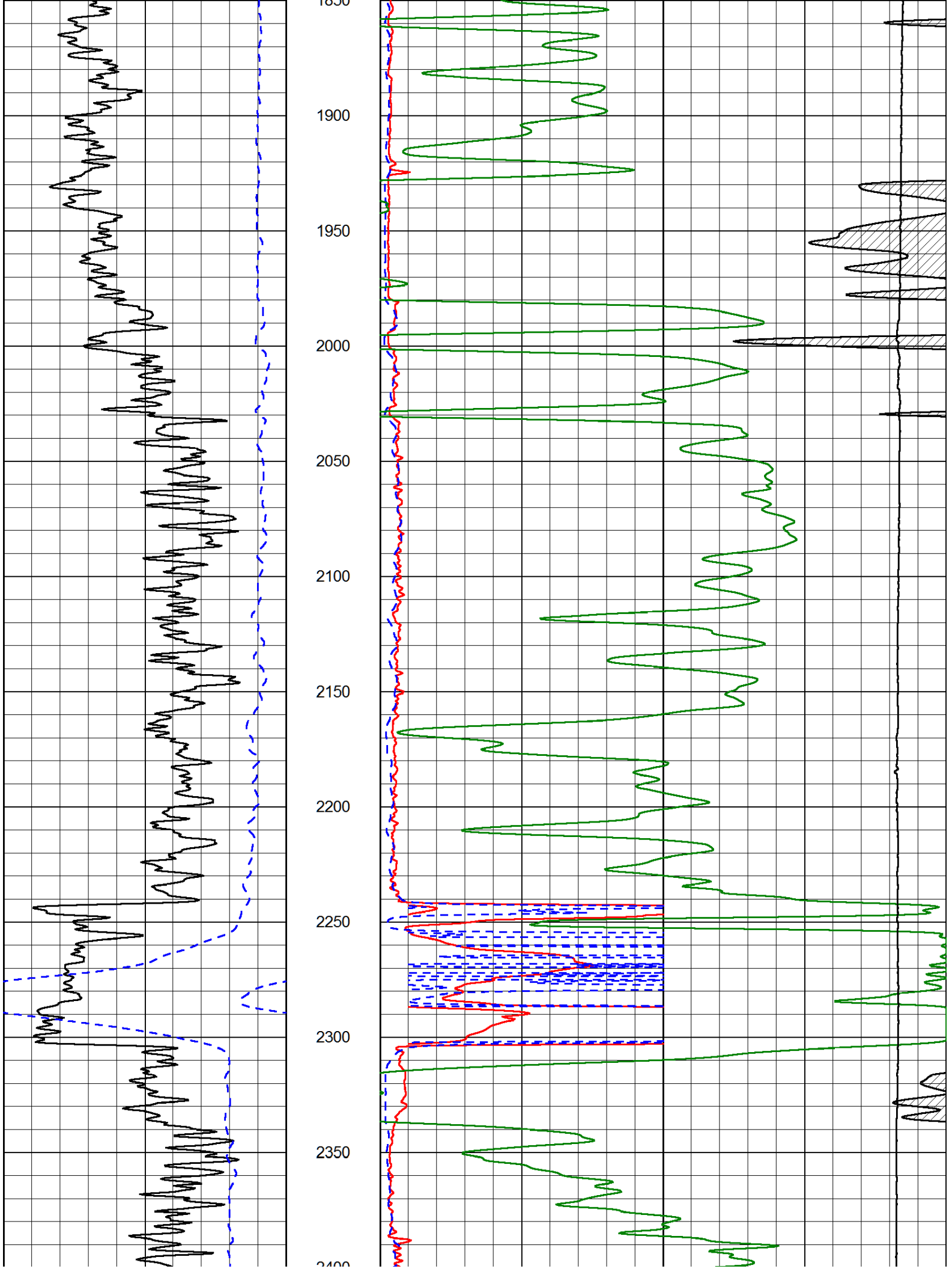
Scott City, KS
5 E to Taos Rd., 5 S to "T",
1 E around curve to "T", 1/4 E, S Into

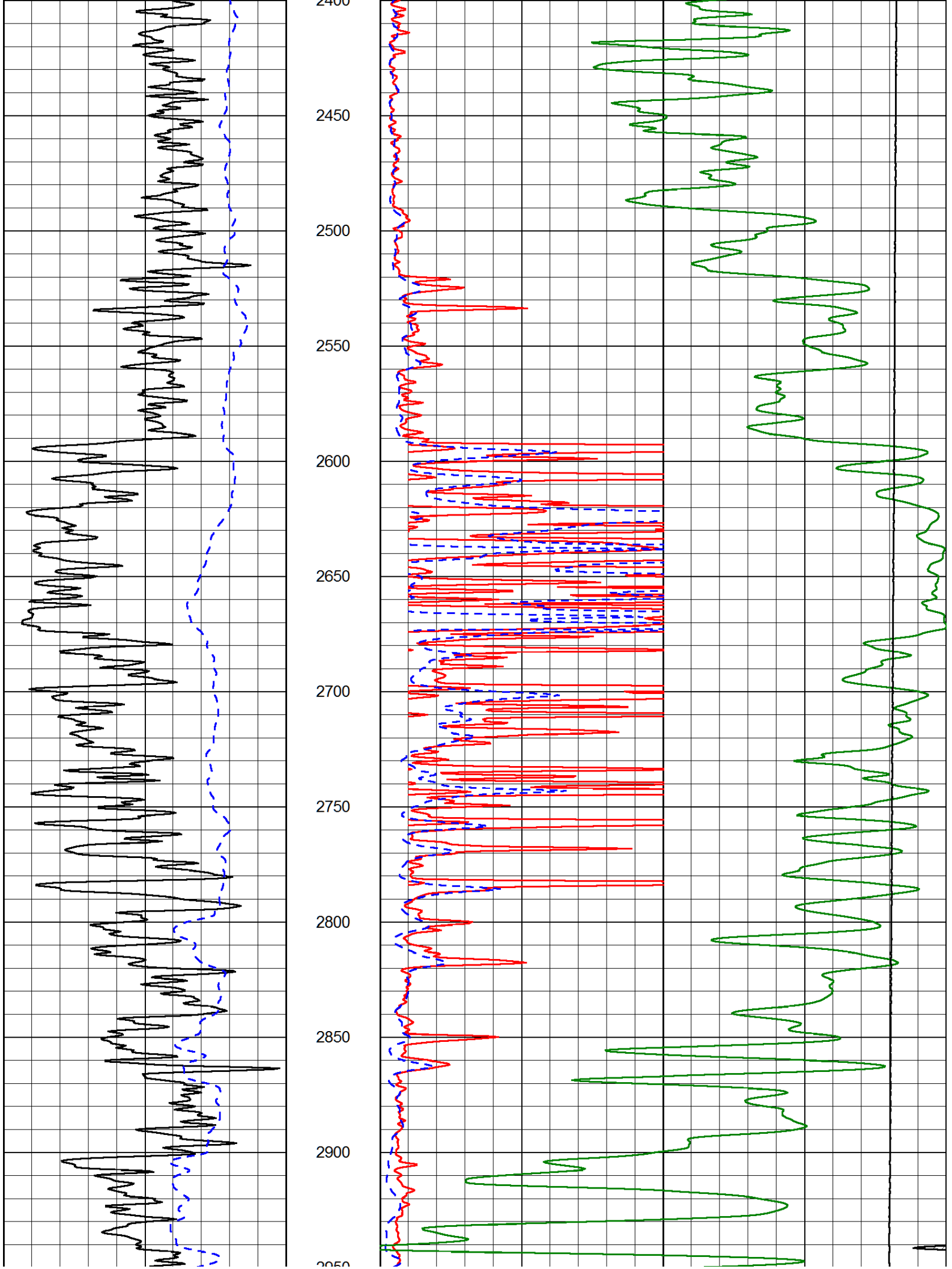
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Charted by: Depth in Feet scaled 1:600

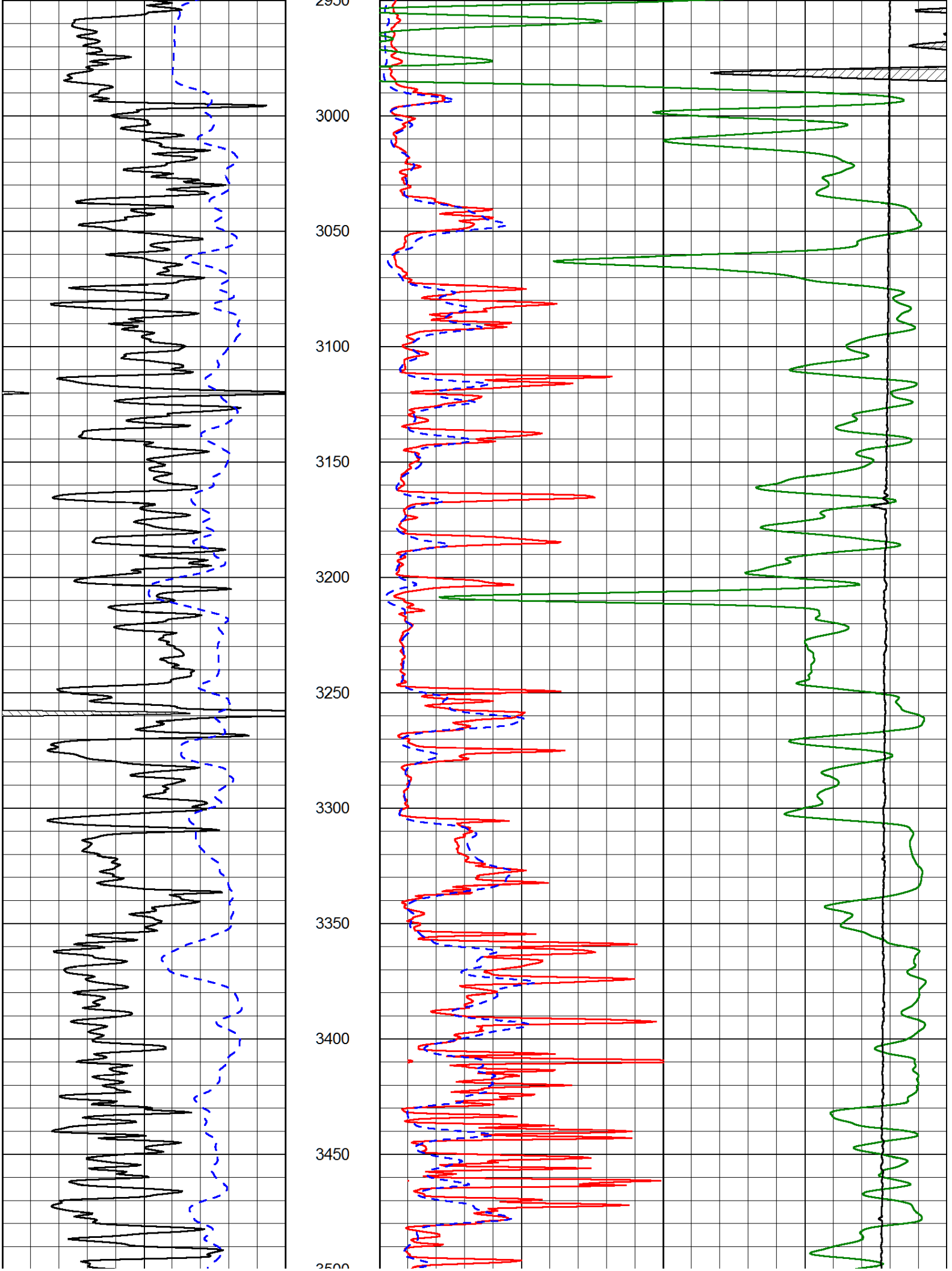

0 Gamma Ray (GAPI) 150
-200 SP (mV) 0
0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0
Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500
300
350
400
450
500
550
600
650
700

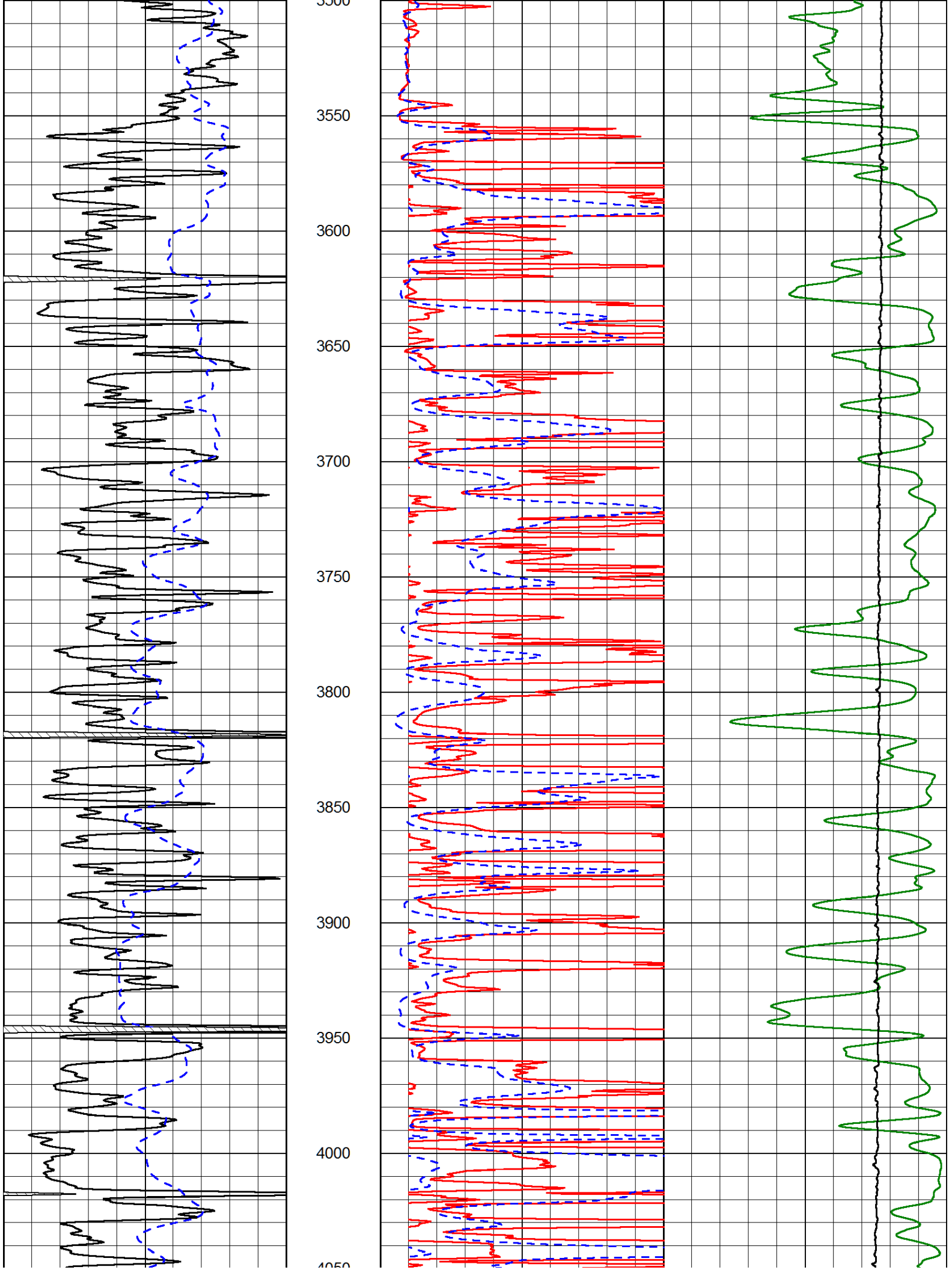

750
800
850
900
950
1000
1050
1100
1150
1200
1250
1300

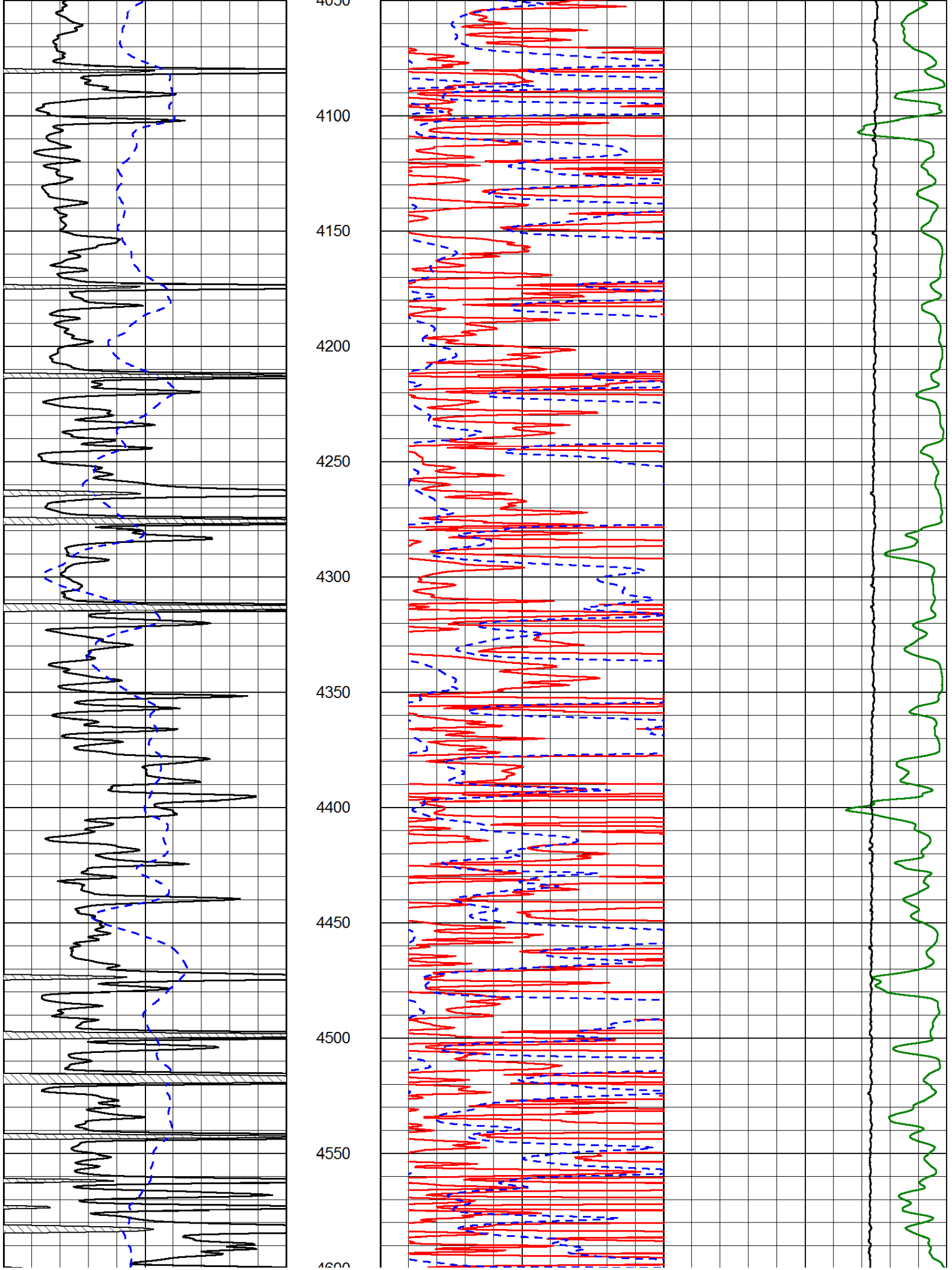

1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1850

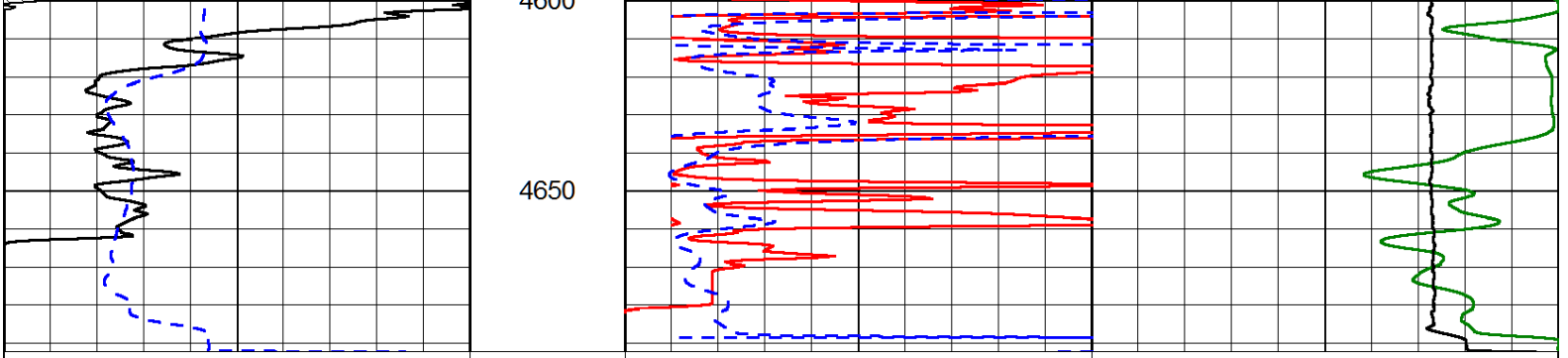

1850
1900
1950
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2050
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2150
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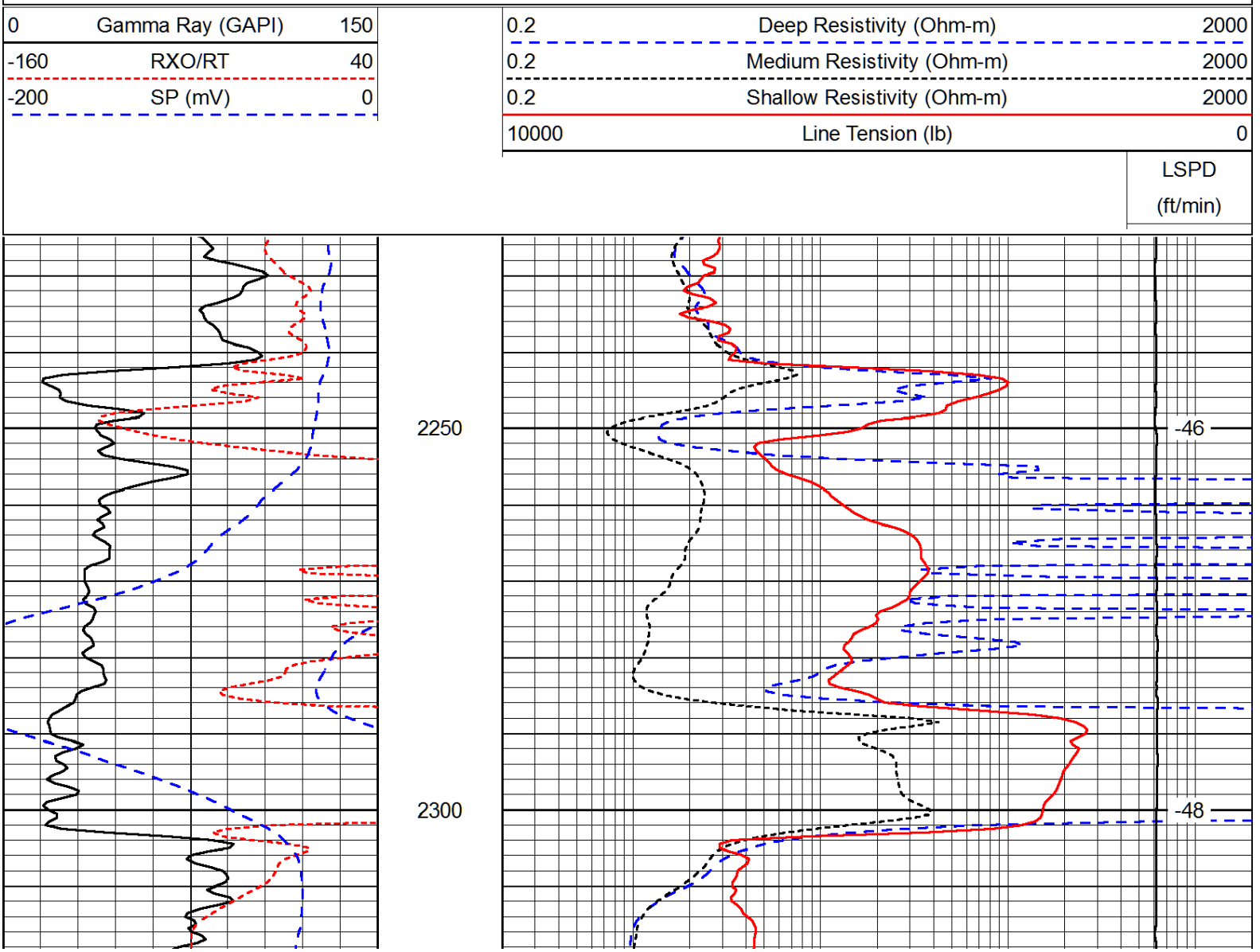

2950
3000
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3500


3500
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3650
3700
3750
3800
3850
3900
3950
4000
4050


4050
4100
4150
4200
4250
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4350
4400
4450
4500
4550
4600



Database File: waushd.db
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Presentation Format: dil
Dataset Creation: Mon Apr 15 09:23:15 2013
Charted by: Depth in Feet scaled 1:240



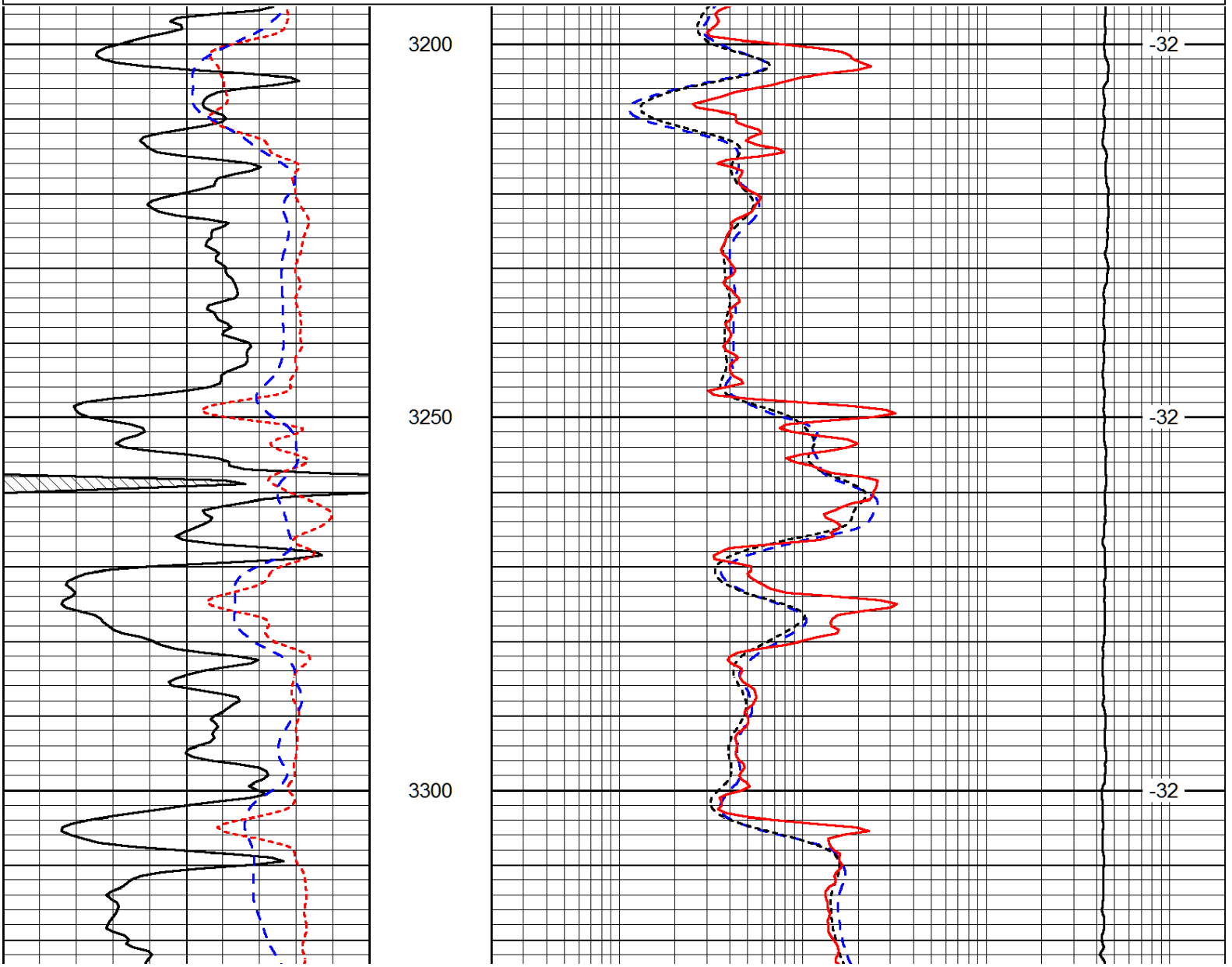
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-160	RXO/RT	40
-200	SP (mV)	0

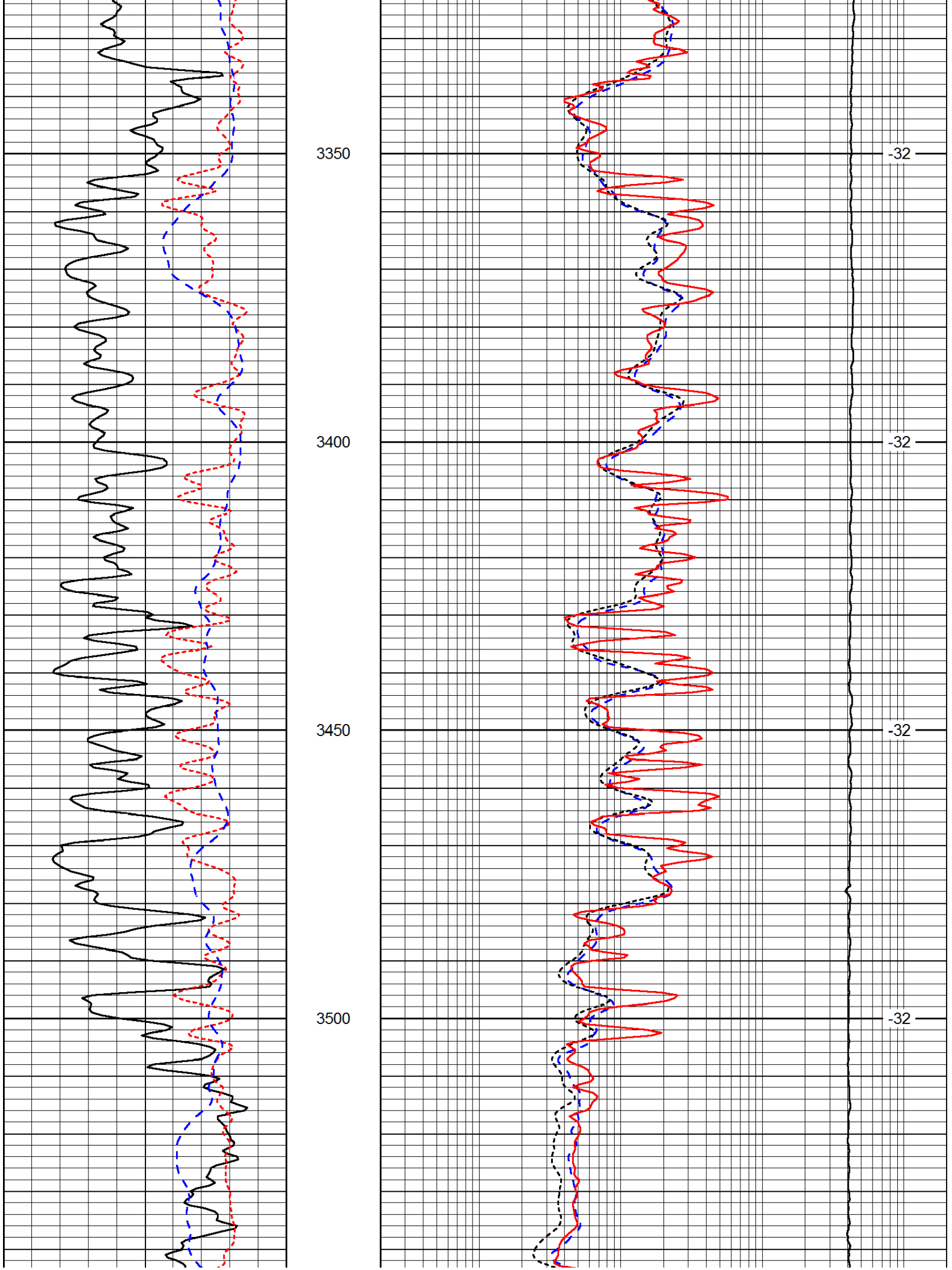
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
	LSPD (ft/min)	

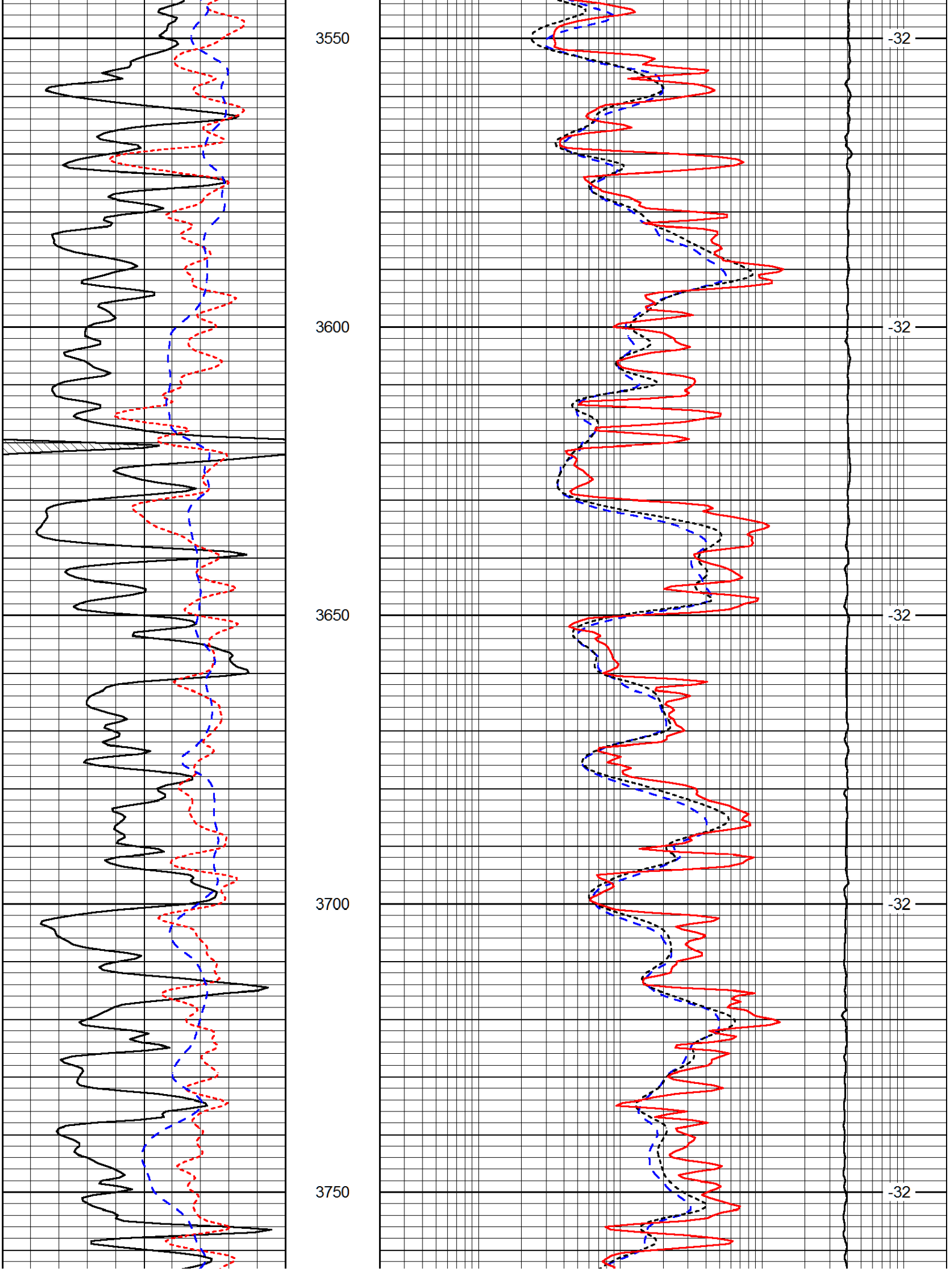
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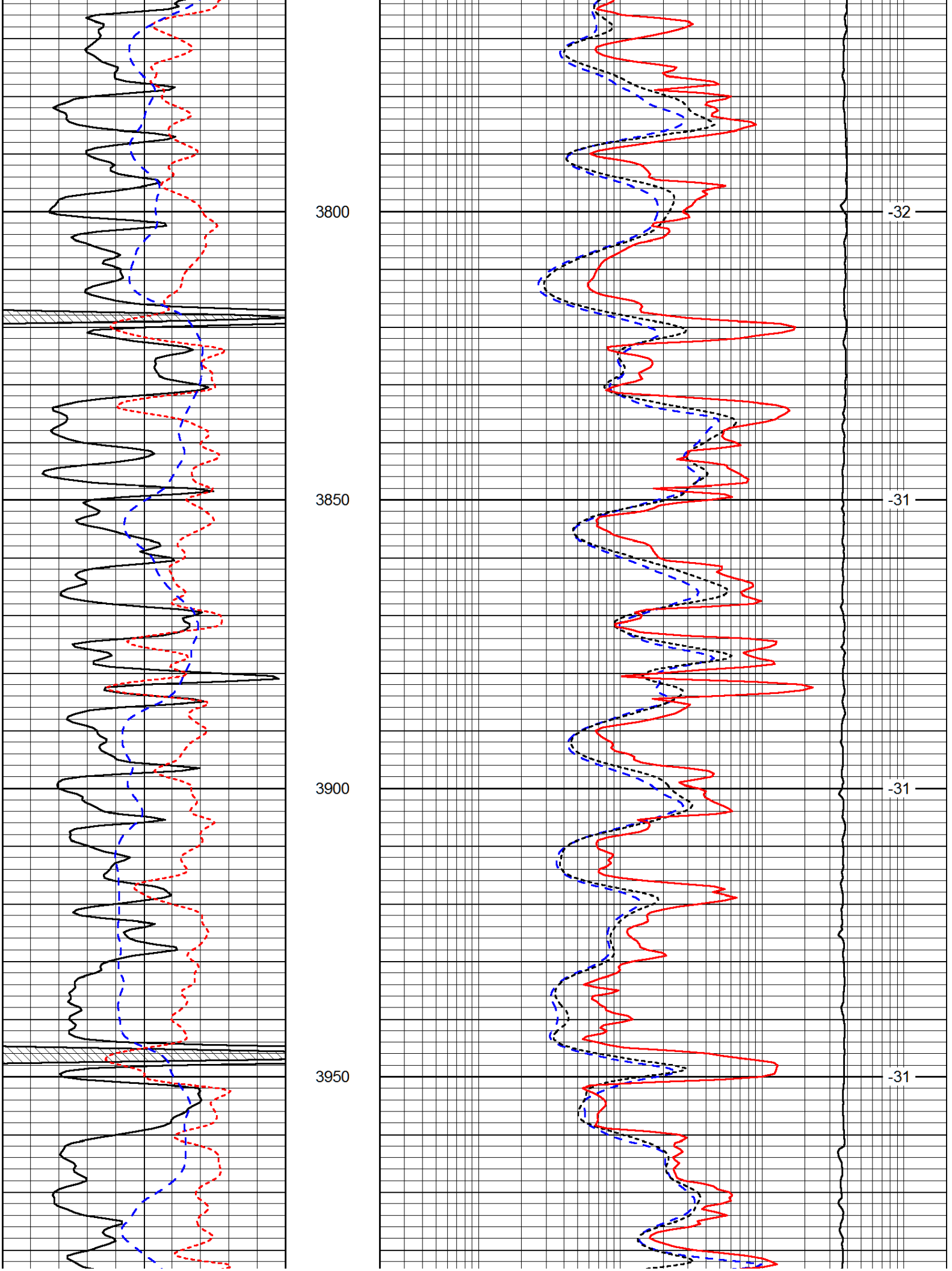
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-200	SP (mV)	0

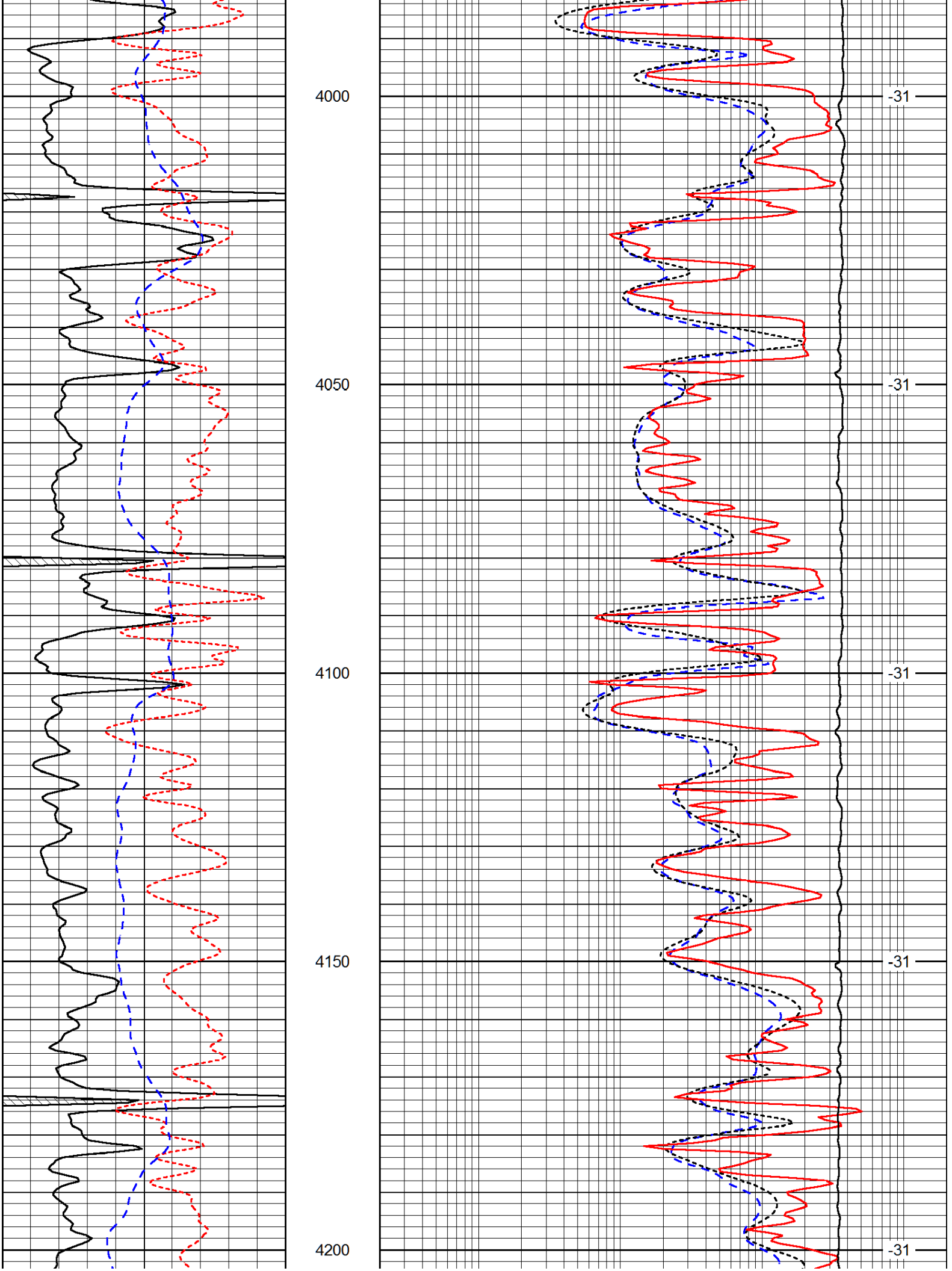
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10000	Line Tension (lb)	0
	LSPD (ft/min)	

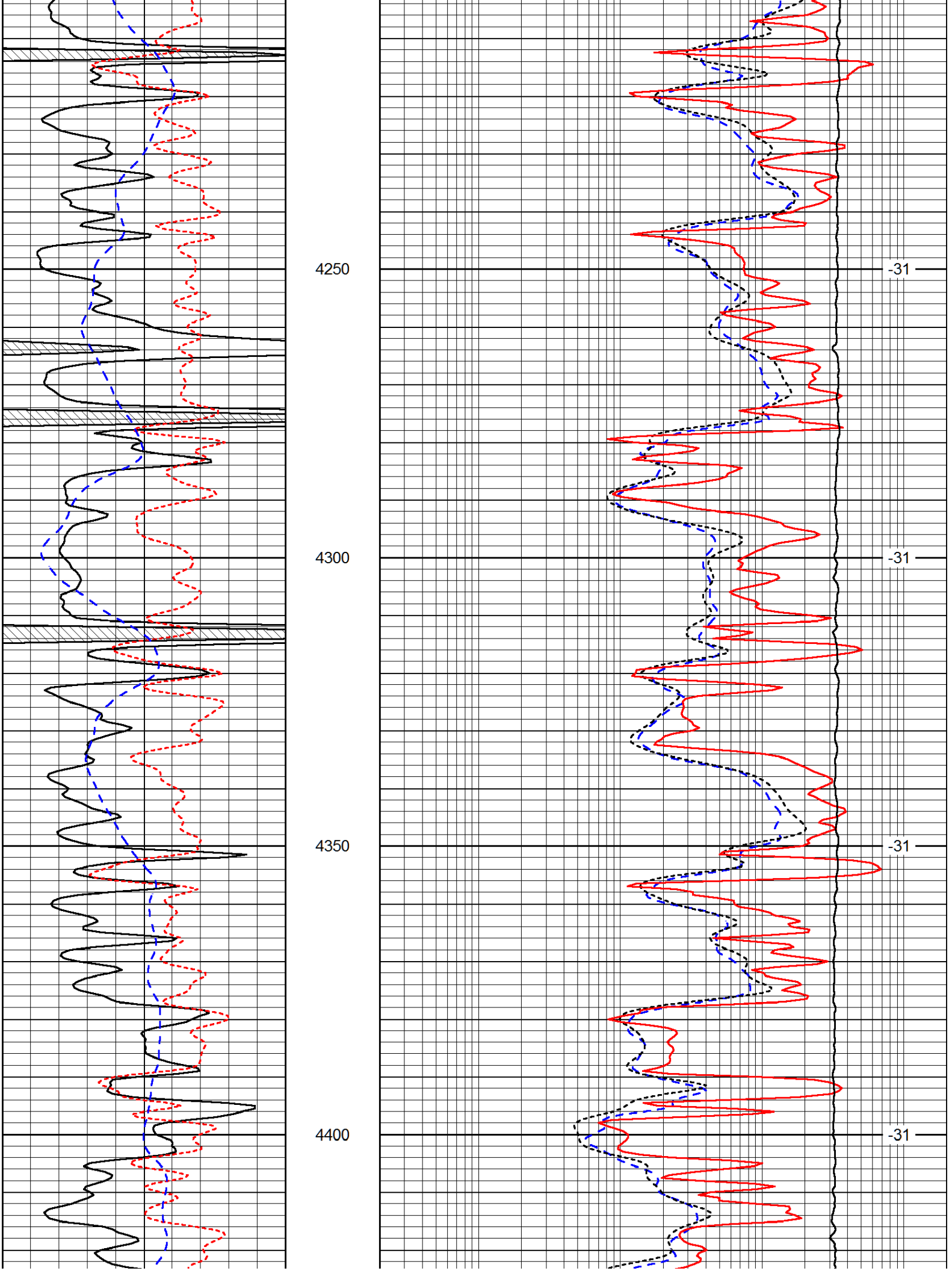


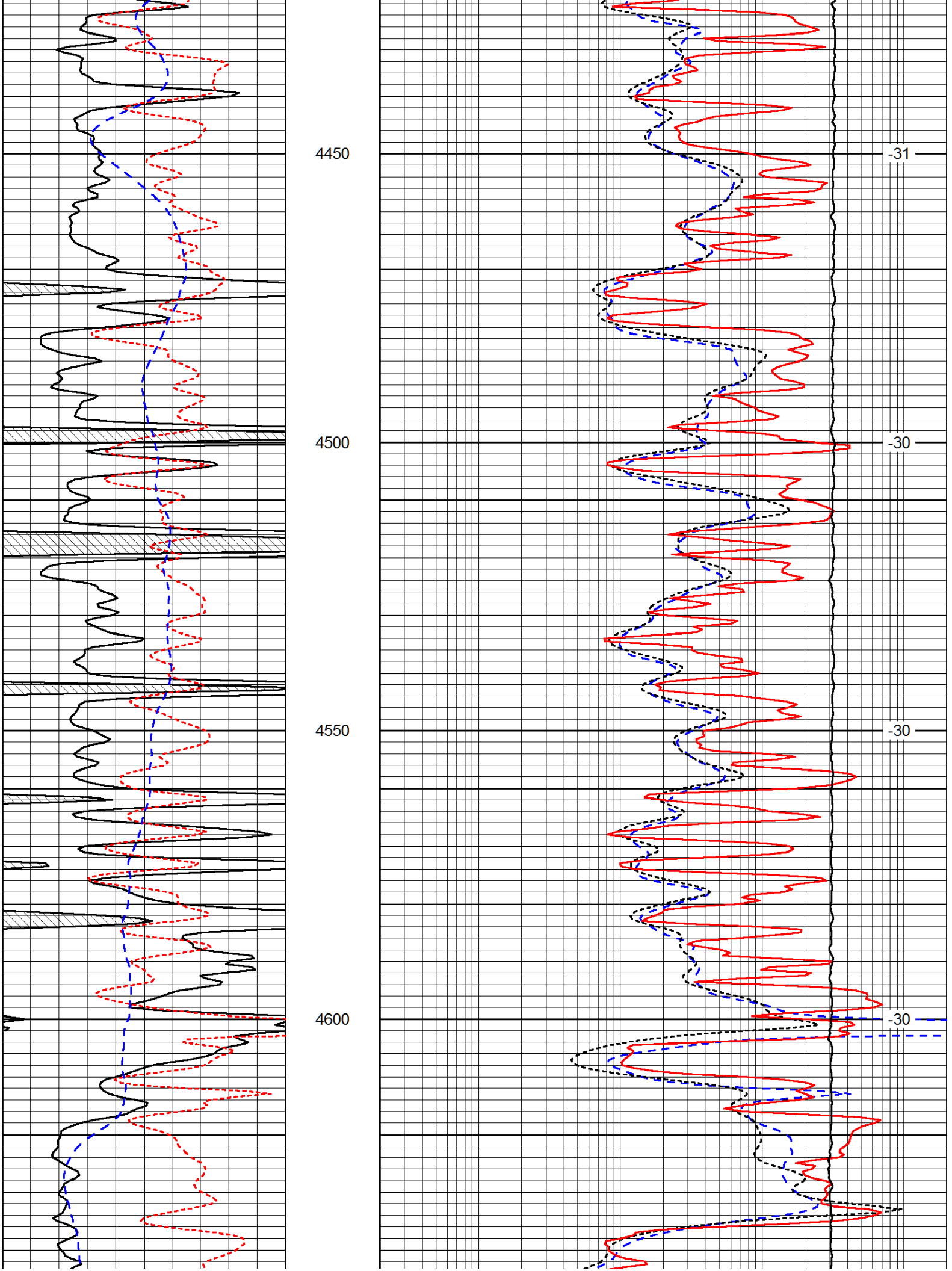

3350
3400
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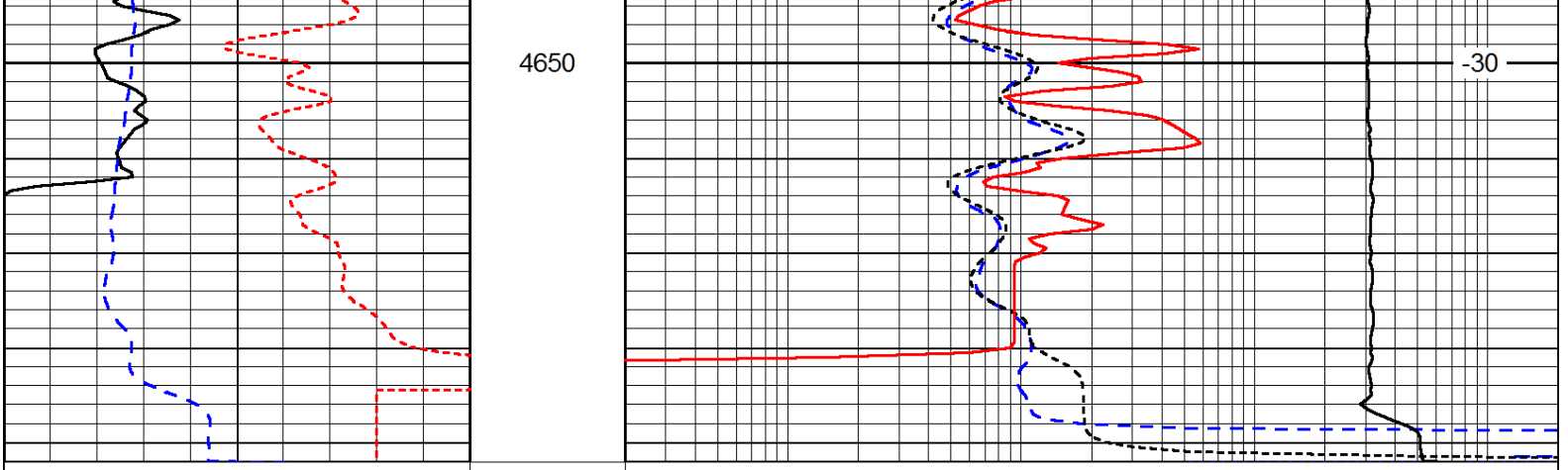

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-31
-31


4450
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-30
-30



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LSPD
(ft/min)