PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-055-22264-00-00

Company American Warrior, Inc.

Well Congdon #10-28

Field Congdon

County Finney State Kansas

Location 335' FSL & 1248' FEL

Sec: 28 Twp: 23S Rge: 32W

Other Services
CNL/CDL
MEL/BHCS

Elevation
K.B. 2858
D.F.
G.L. 2846

Permanent Datum Ground Level
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation 2846

Date	1/1/2014			
Run Number	One			
Depth Driller	4850			
Depth Logger	4851			
Bottom Logged Interval	4850			
Top Log Interval	1100			
Casing Driller	8.625 @ 1115			
Casing Logger	1116			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	3000			
Density / Viscosity	9.5 50			
pH / Fluid Loss	9.0 8.0			
Source of Sample	Flowline			
Rm @ Meas. Temp	1.20 @ 38			
Rmf @ Meas. Temp	0.90 @ 38			
Rmc @ Meas. Temp	1.62 @ 38			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.36 @ 127			
Operating Rig Time	5 Hours			
Max Rec. Temp. F	127			
Equipment Number	91			
Location	Hays			
Recorded By	D. Schmidt			
Witnessed By	Kevin Timson			

<<< Fold Here >>>

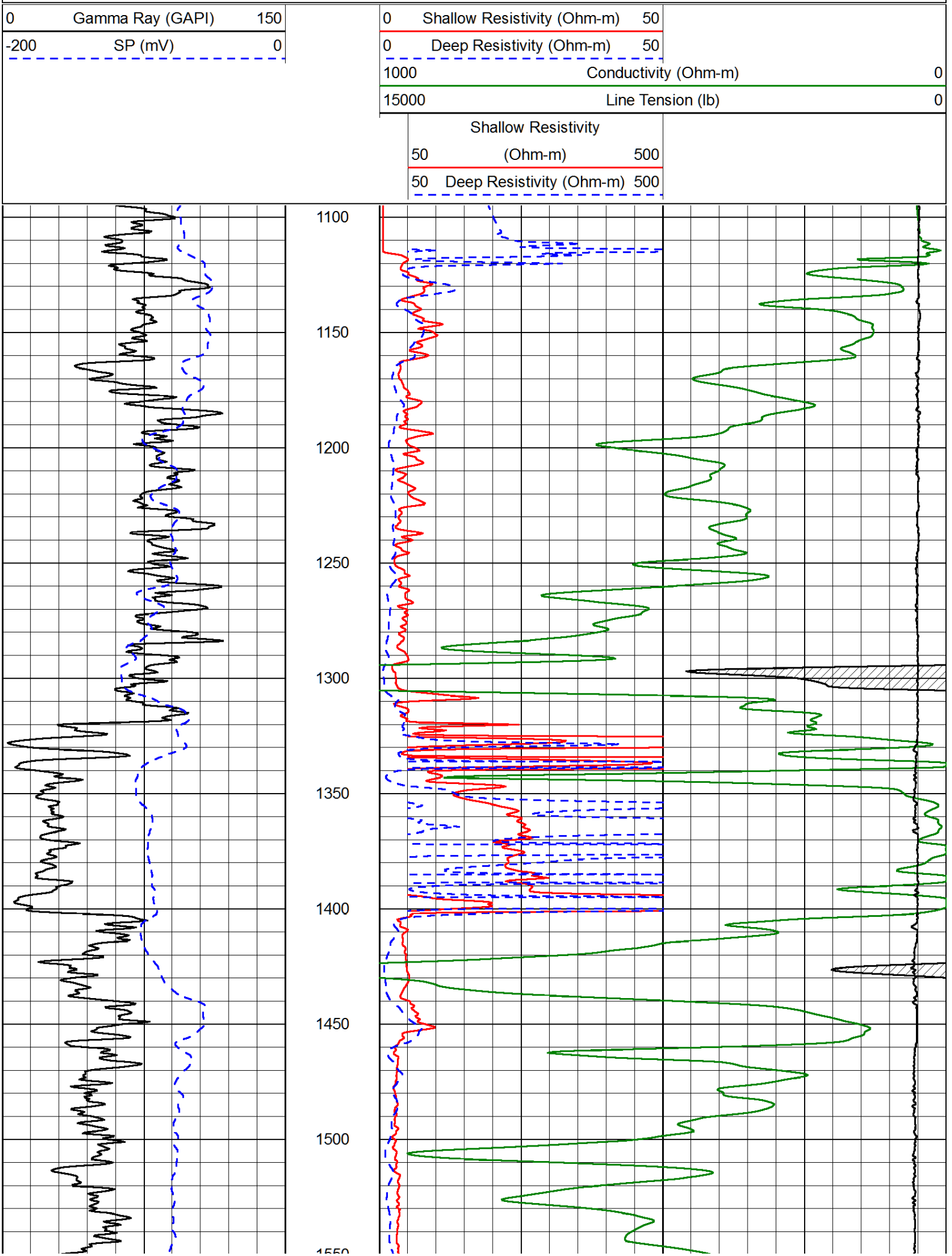
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

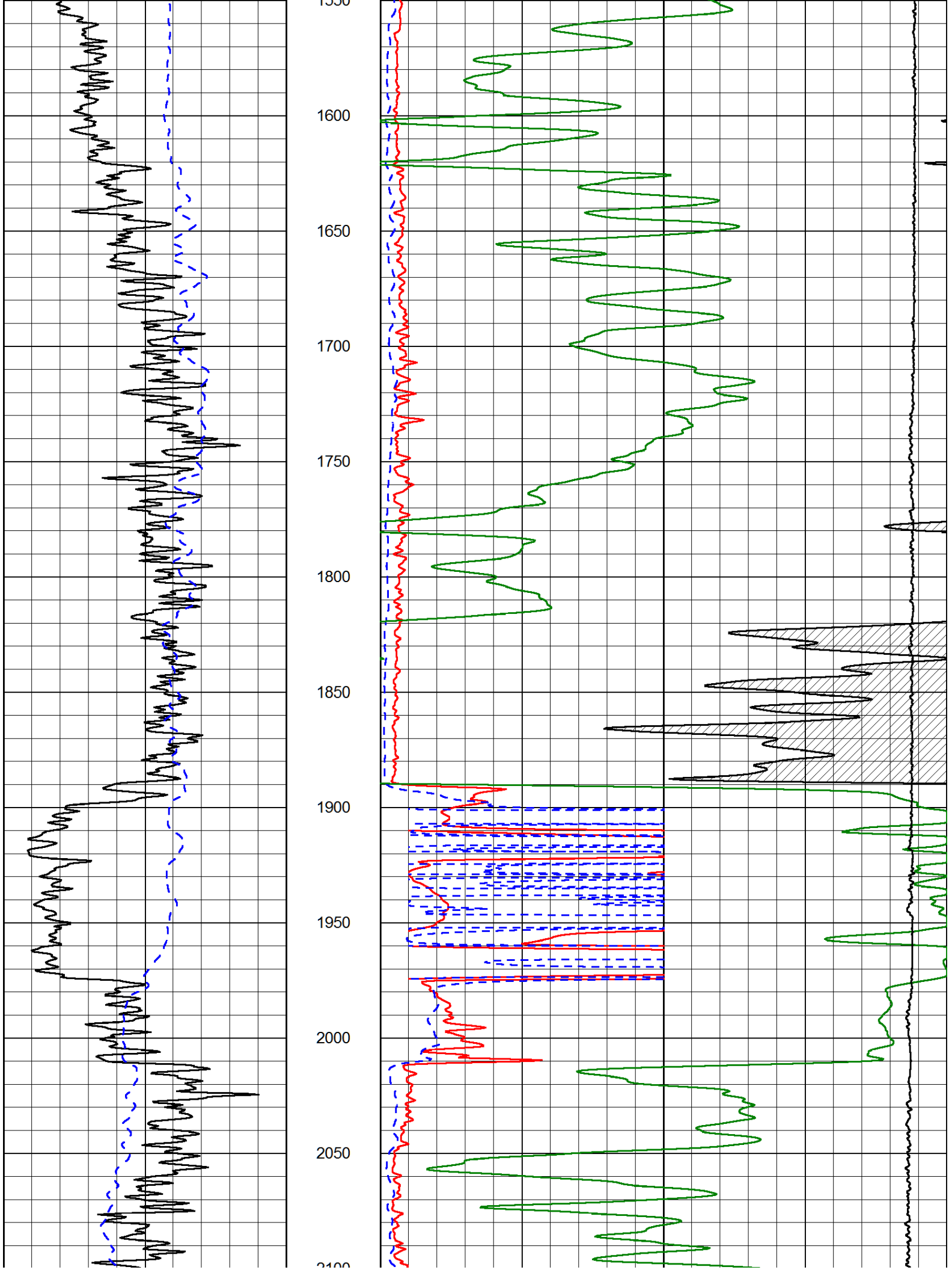
Comments

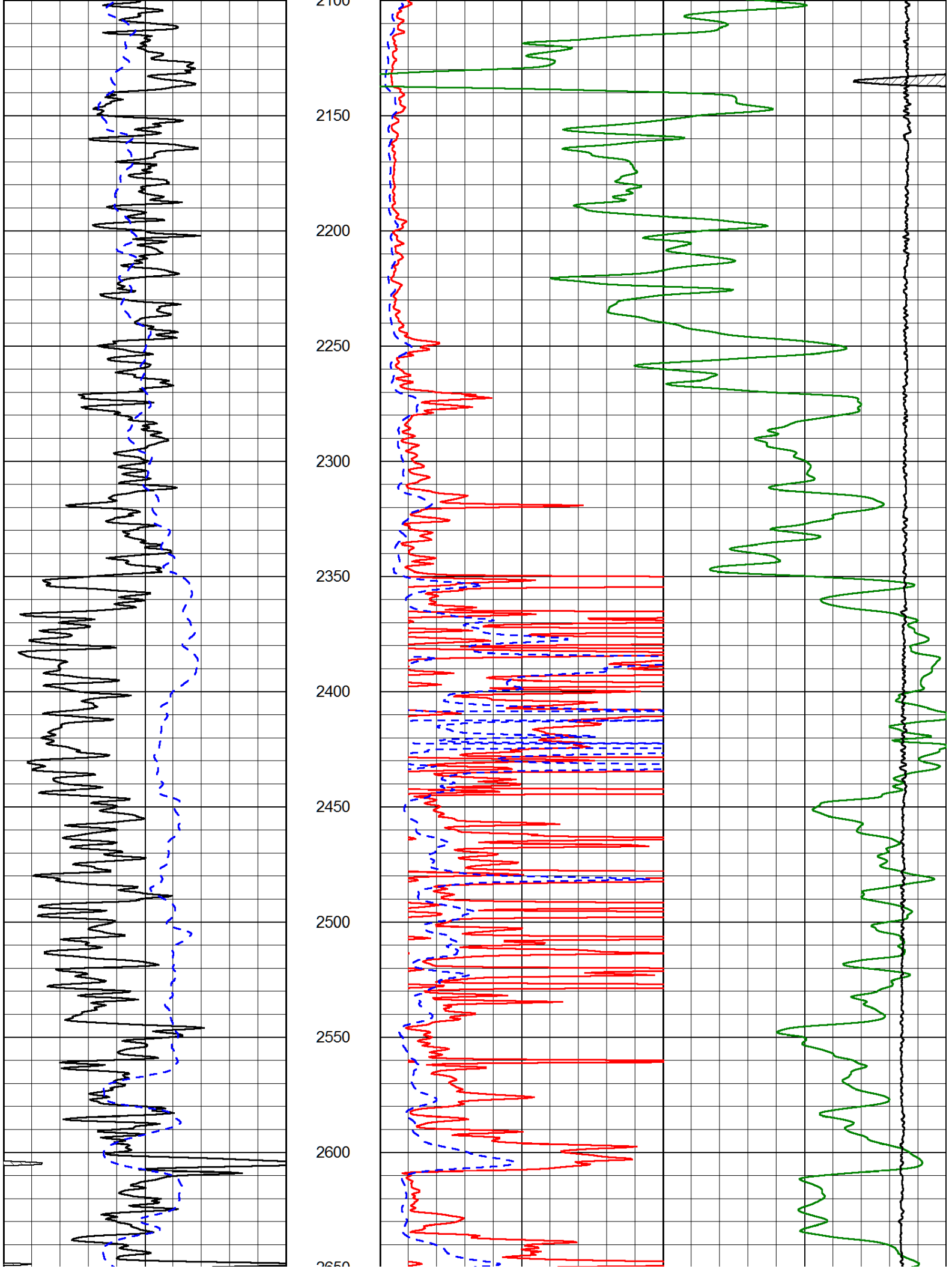
Thank you for using Log-Tech, Inc.
(785) 625-3858

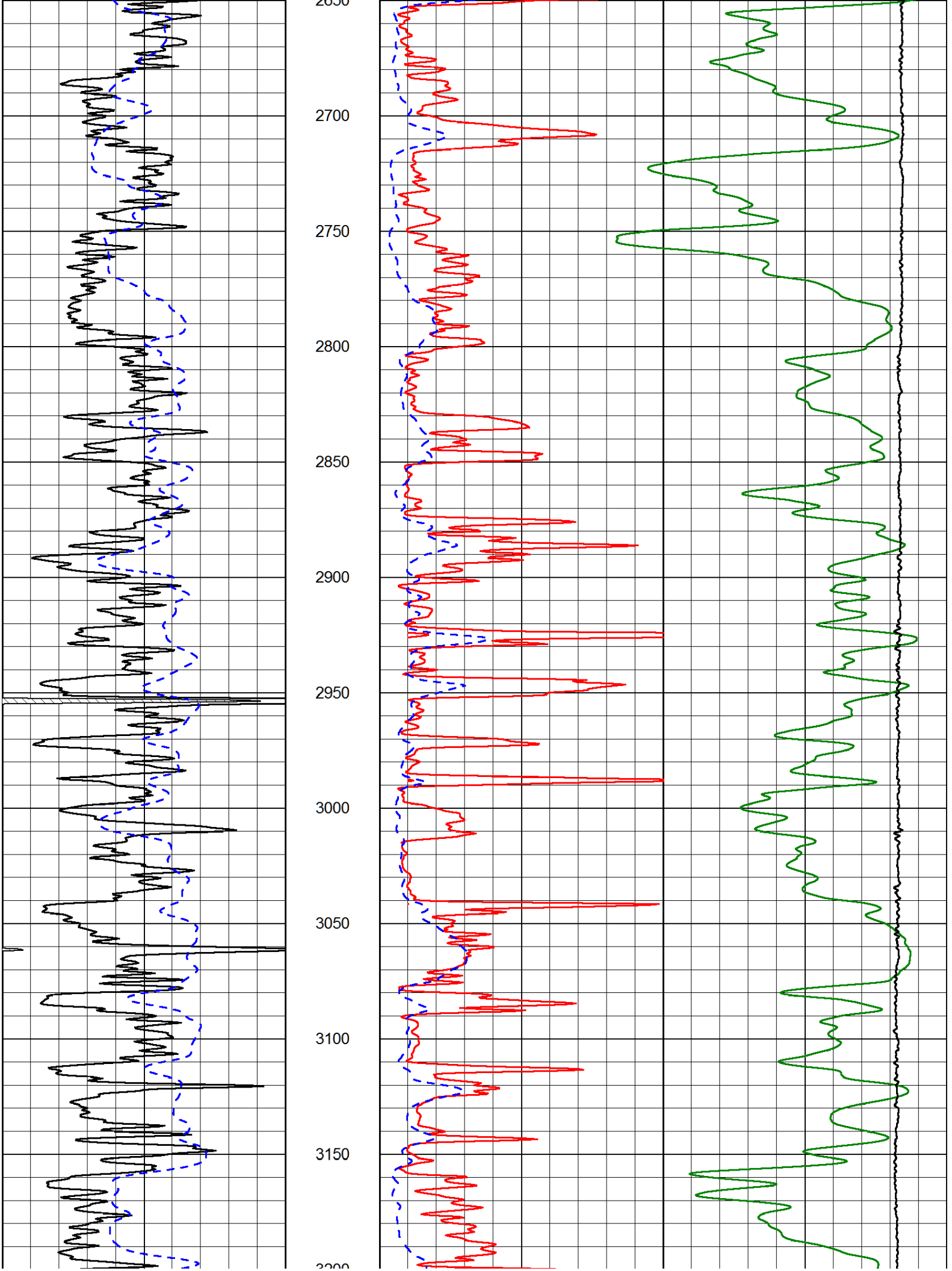
Garden City,
North on Hwy 83 to Rodkey Rd, 2 3/4 East,
North into

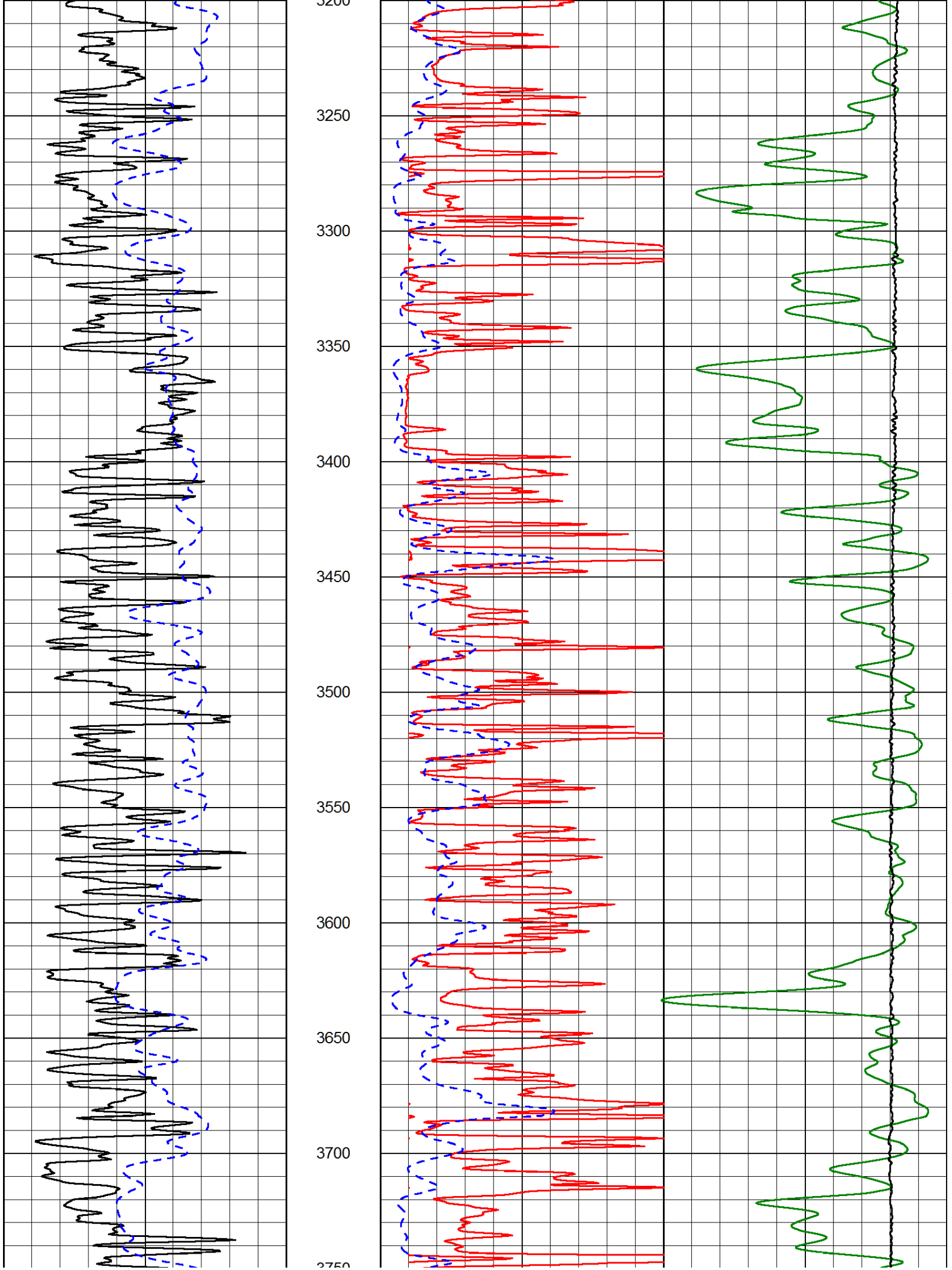
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Presentation Format:	dil2in
Dataset Creation:	Wed Jan 01 11:45:38 2014
Charted by:	Depth in Feet scaled 1:600

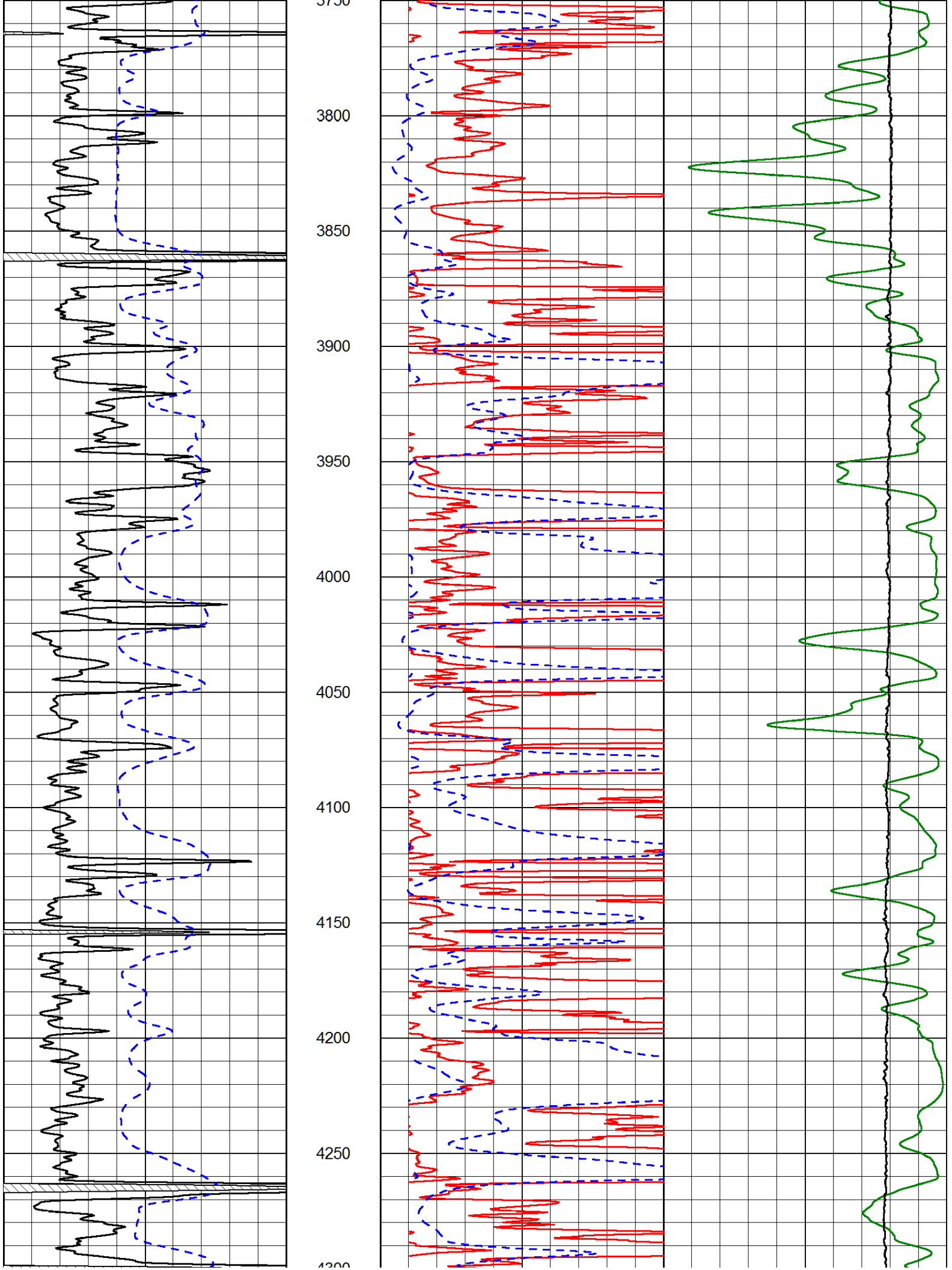

0 Gamma Ray (GAPI) 150
-200 SP (mV) 0
0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0
Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500
1100
1150
1200
1250
1300
1350
1400
1450
1500

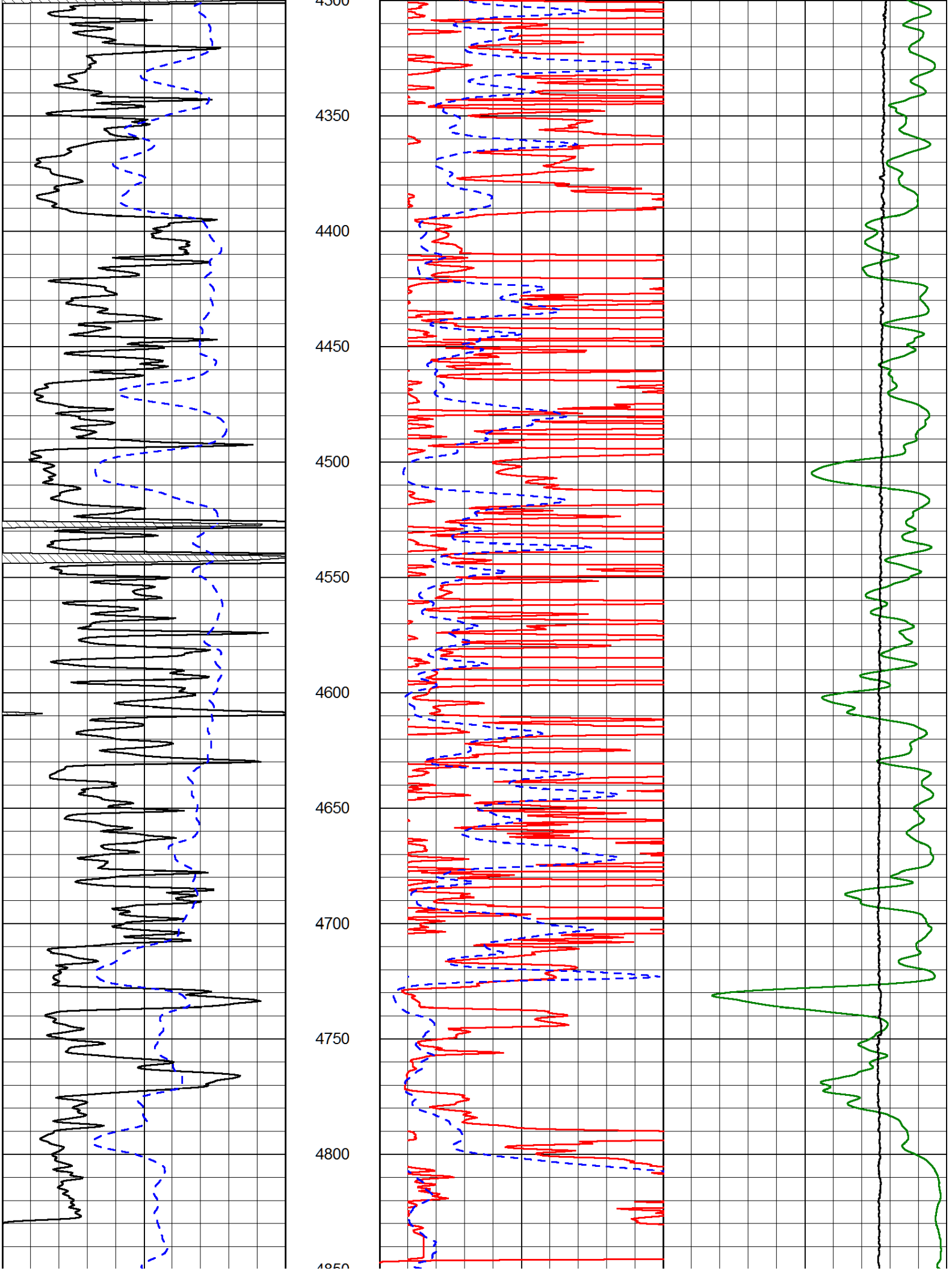

1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100

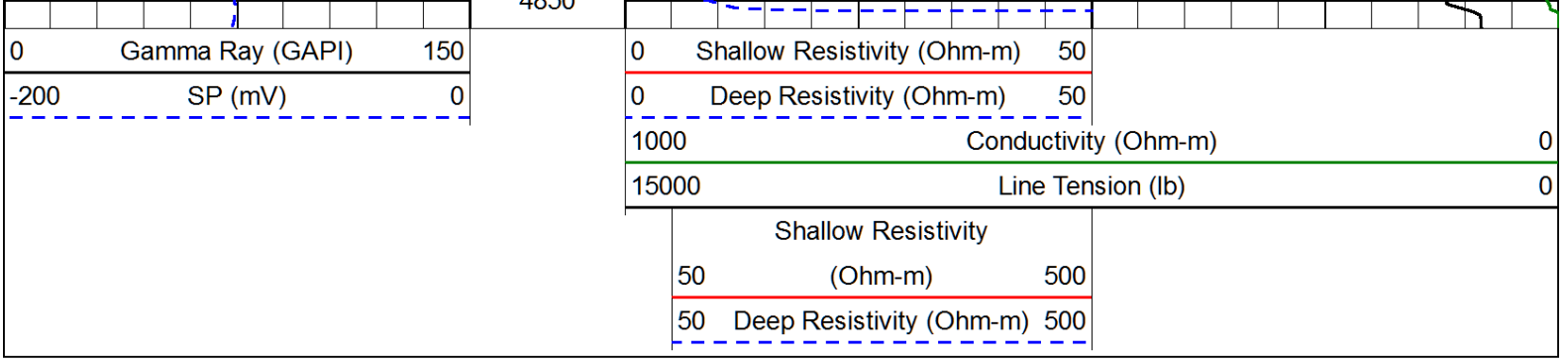

2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650


2650
2700
2750
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2850
2900
2950
3000
3050
3100
3150
3200

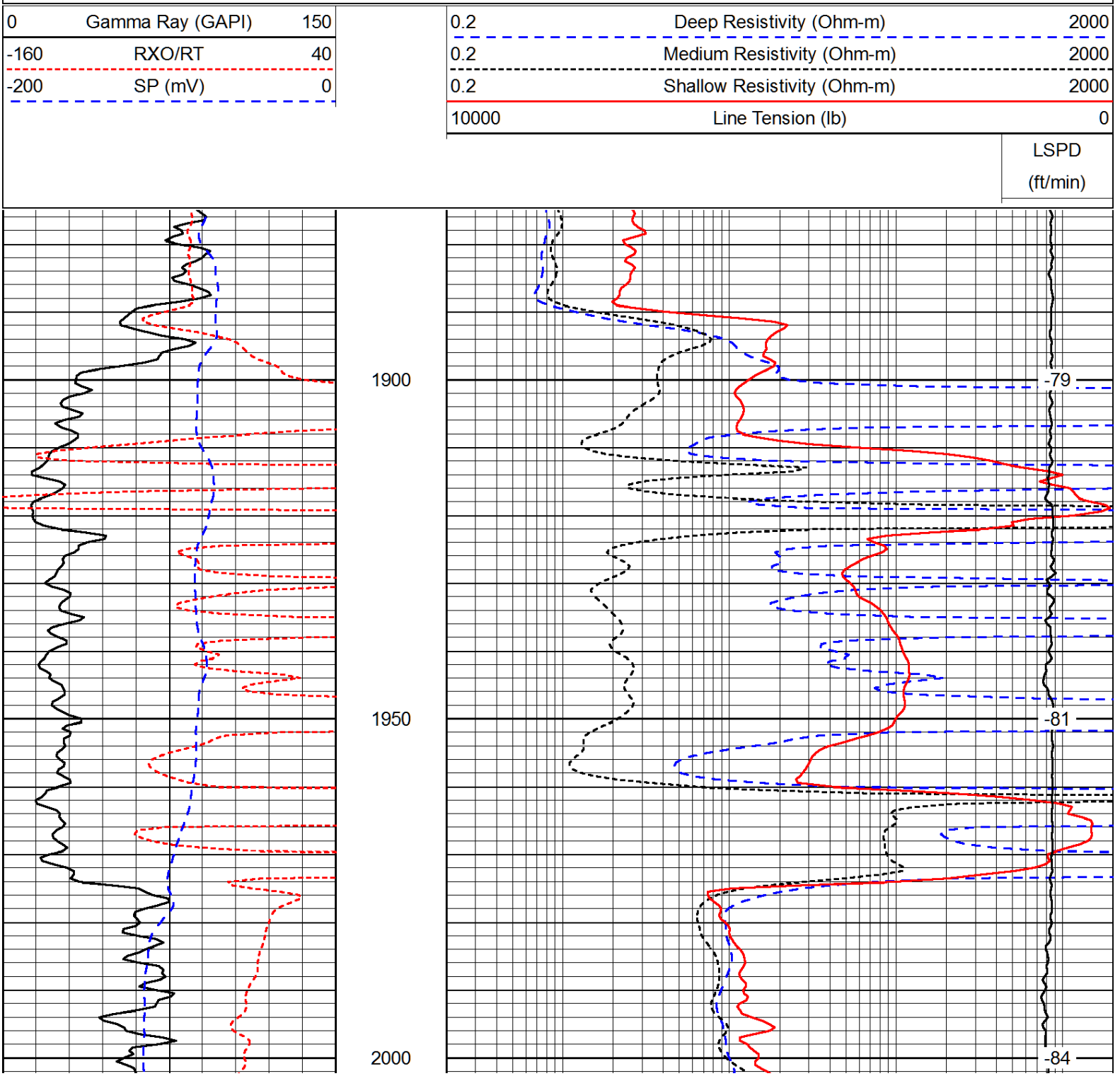

3200
3250
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3600
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3750


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4000
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4300


4300
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4700
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4800
4850



Database File: aw_010114hd.db
Dataset Pathname: dil/awstck
Presentation Format: dil
Dataset Creation: Wed Jan 01 11:45:38 2014
Charted by: Depth in Feet scaled 1:240



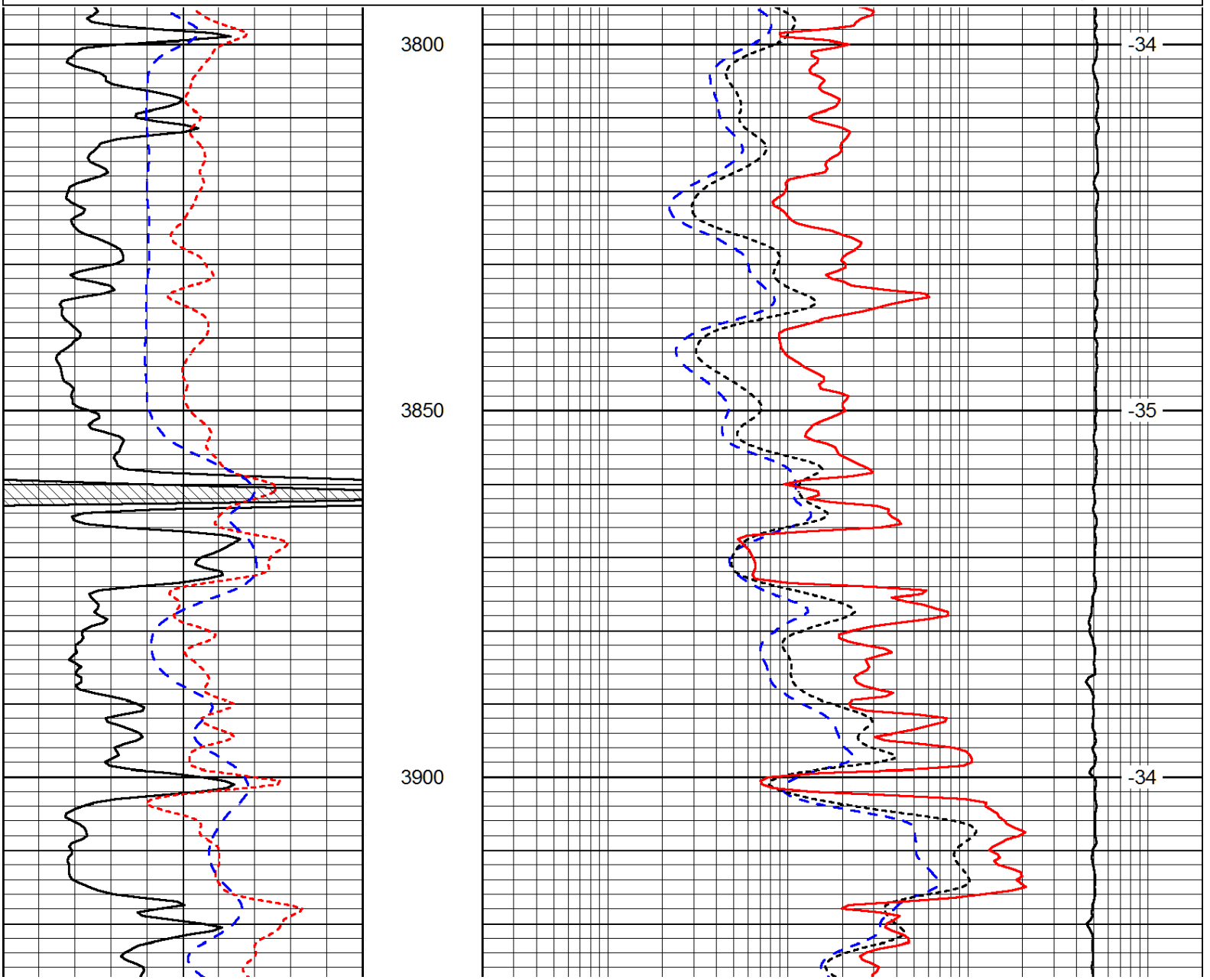
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-160	RXO/RT	40
-200	SP (mV)	0

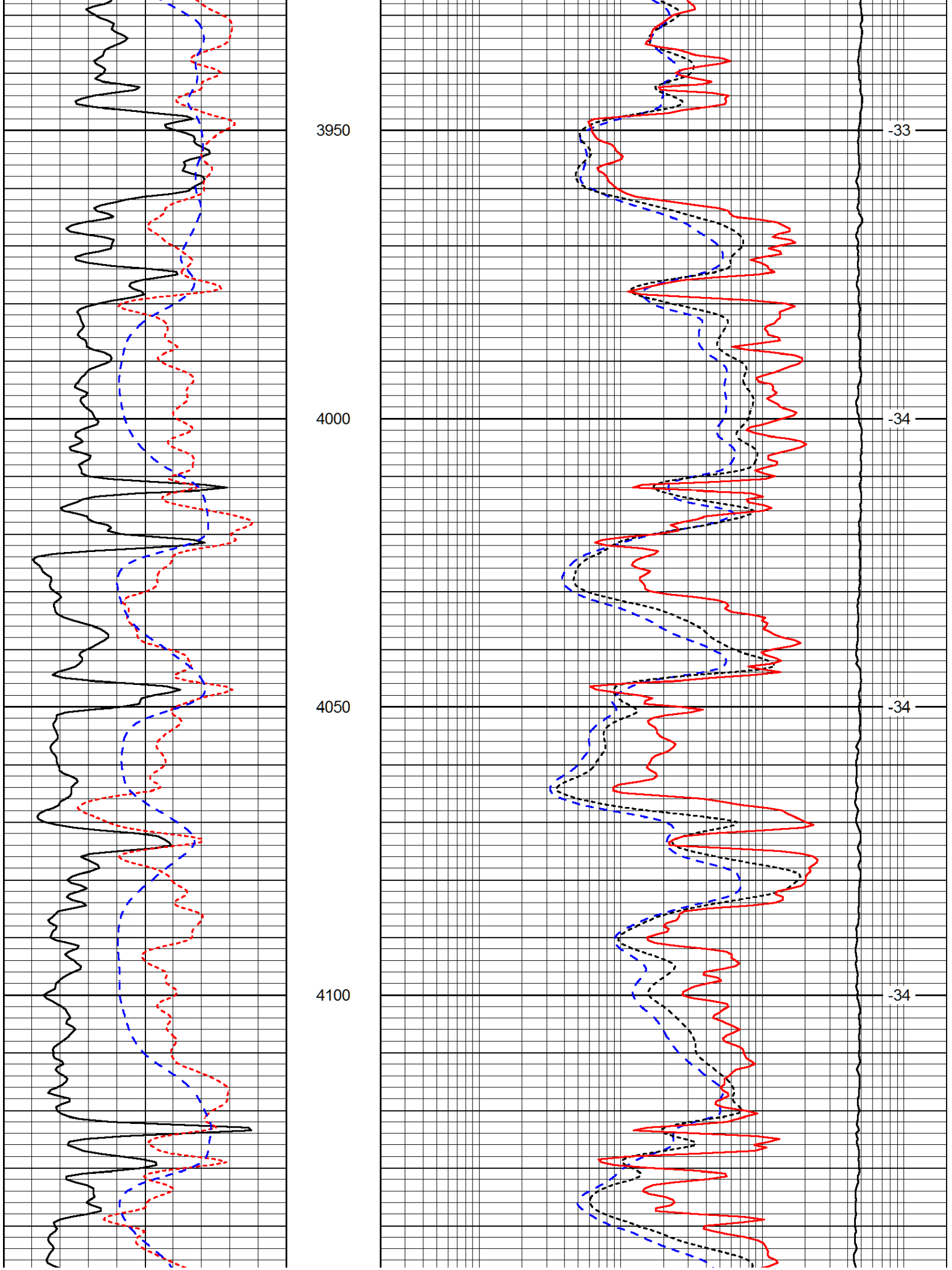
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
	LSPD (ft/min)	

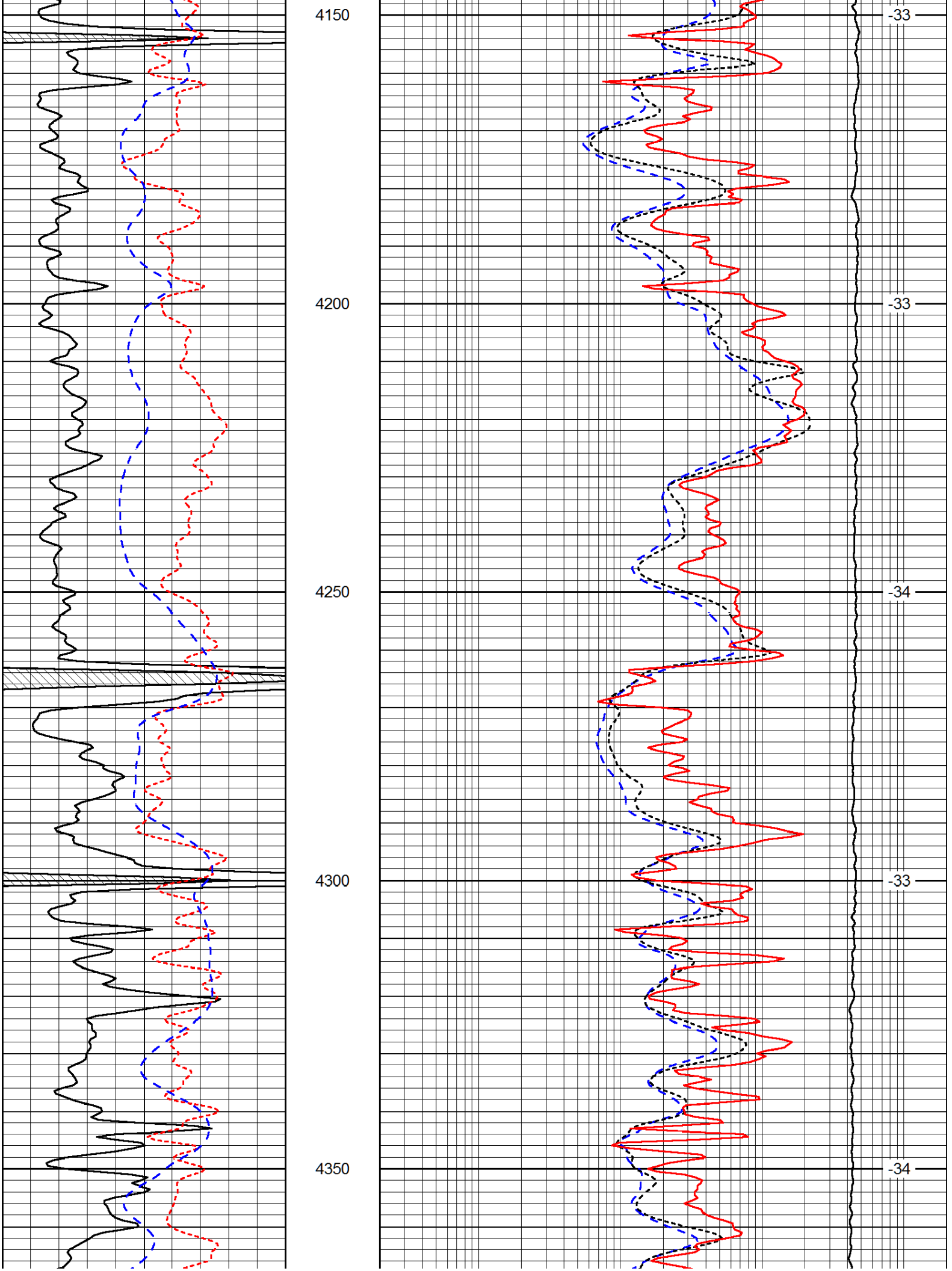
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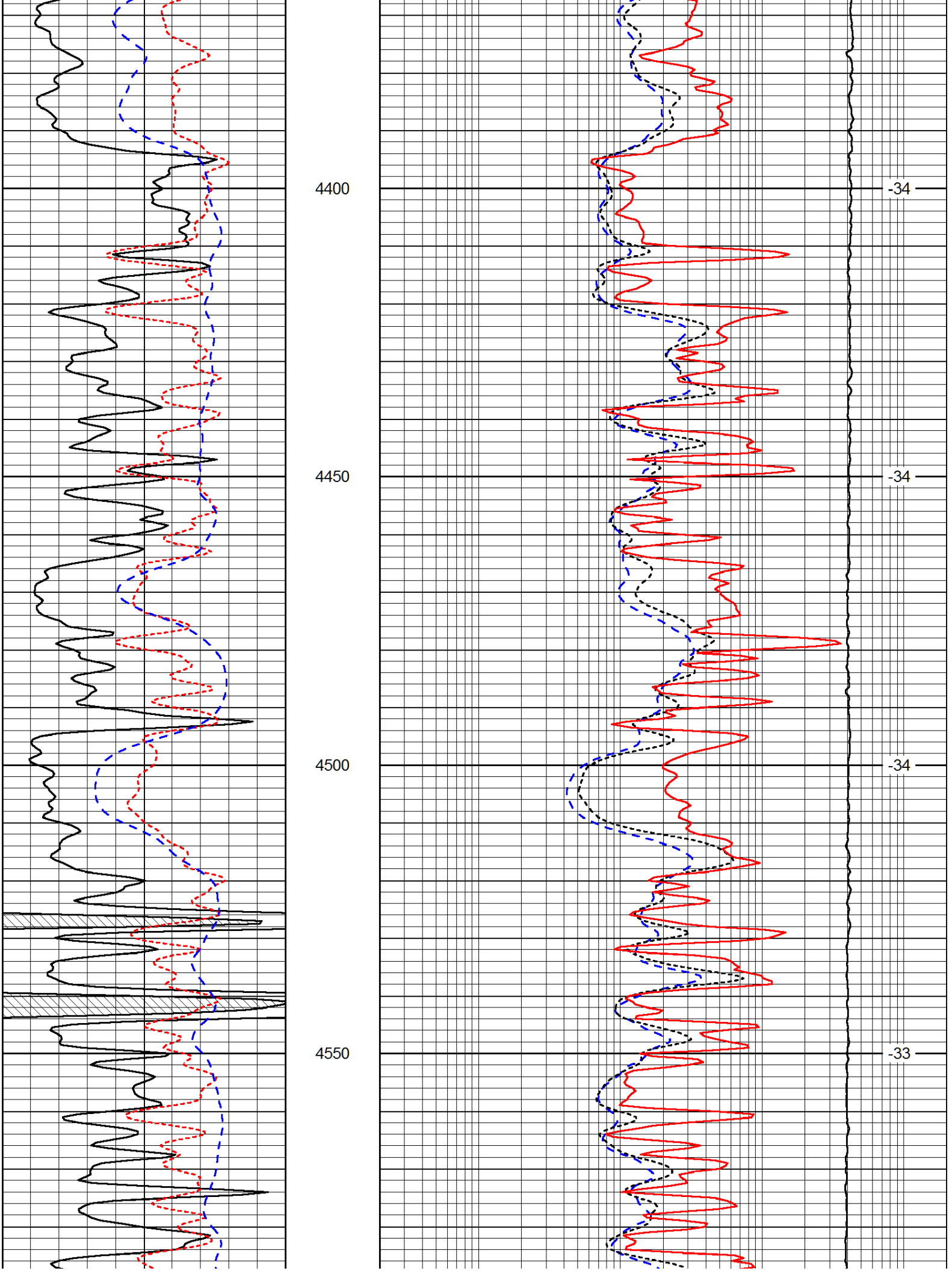
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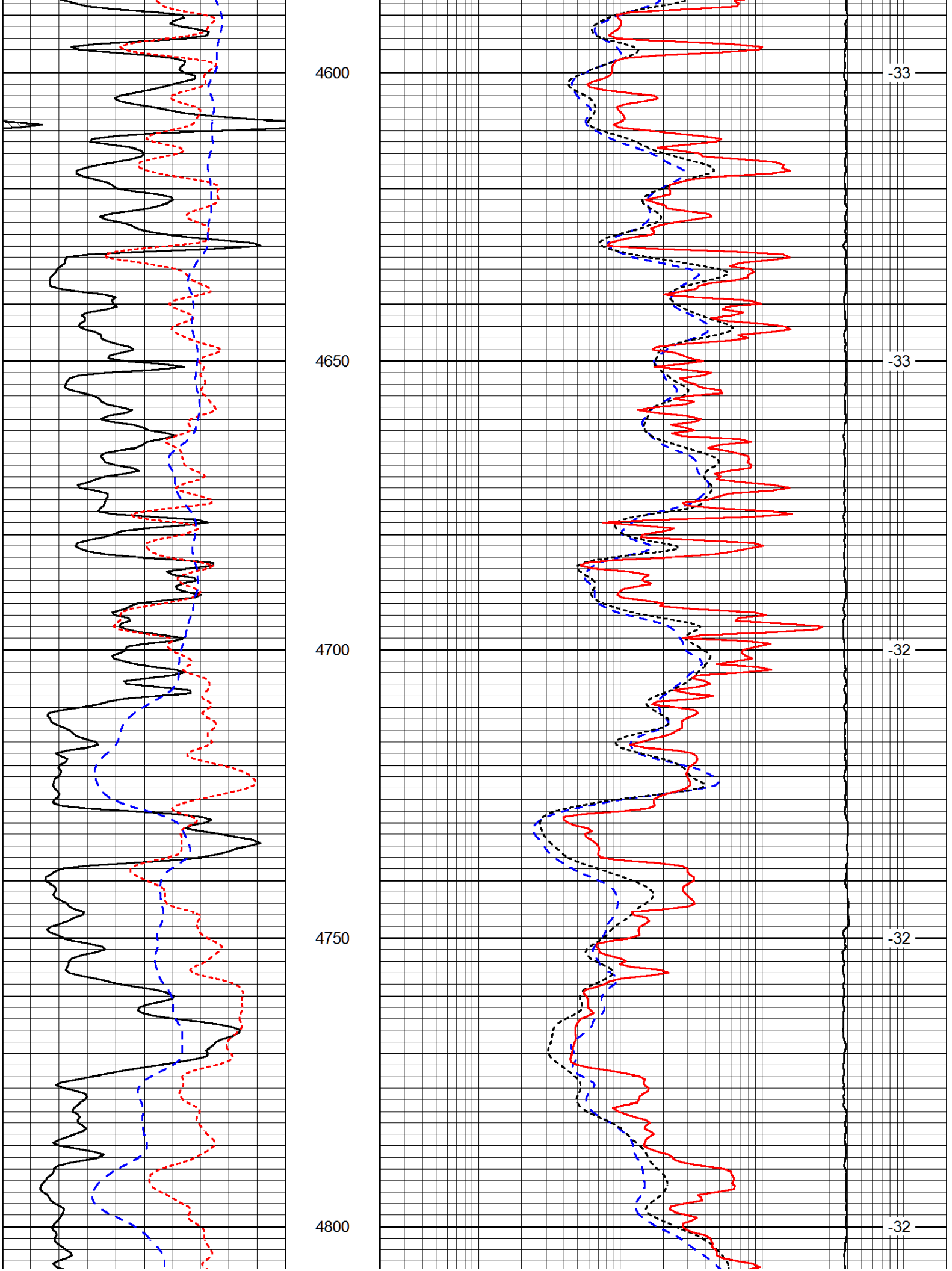
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0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
	LSPD (ft/min)	

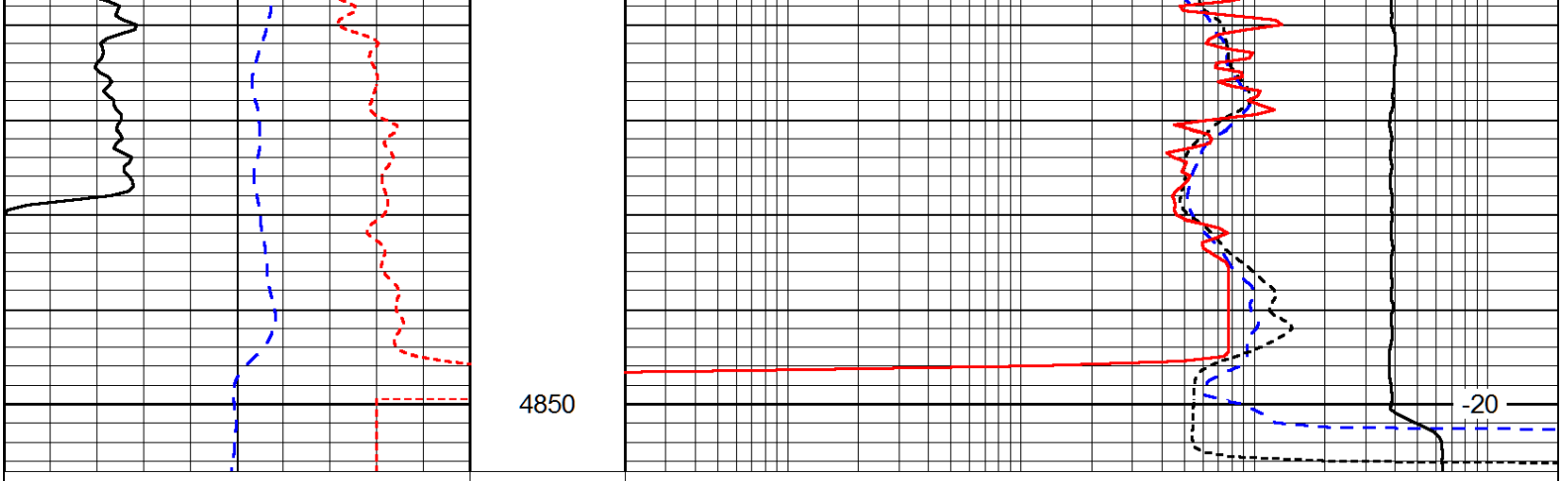



3950
4000
4050
4100
-33
-34
-34
-34


4150
4200
4250
4300
4350
-33
-33
-34
-33
-34


4400
4450
4500
4550
-34
-34
-34
-33


4600
4650
4700
4750
4800
-33
-33
-32
-32
-32



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10000	Line Tension (lb)	0

LSPD
(ft/min)