PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-159-22750-00-00

Company Carrie Exploration and Development

Well Doll "C" #1

Field Chase-Silica

County Rice State Kansas

Location 2300' FSL & 2300' FWL

Sec: 19 Twp: 19 S Rge: 10 W

Other Services
CNL/CDL
MEL

Elevation
K.B. 1778
D.F.
G.L. 1769

Permanent Datum	Ground Level	Elevation 1769		
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum		
Drilling Measured From	Kelly Bushing			
Date	09-15-2013			
Run Number	One			
Depth Driller	3390			
Depth Logger	3389			
Bottom Logged Interval	3388			
Top Log Interval	250			
Casing Driller	8.625 @ 296			
Casing Logger	296			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	4000			
Density / Viscosity	9.1 48			
pH / Fluid Loss	9.5 9.4			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.52 @ 81			
Rmf @ Meas. Temp	0.39 @ 81			
Rmc @ Meas. Temp	0.70 @ 81			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.38 @ 112			
Operating Rig Time	3 1/2 Hours			
Max. Rec. Temp. F	112			
Equipment Number	91			
Location	Hays			
Recorded By	Y. Ruiz			
Witnessed By	Steve Reed			

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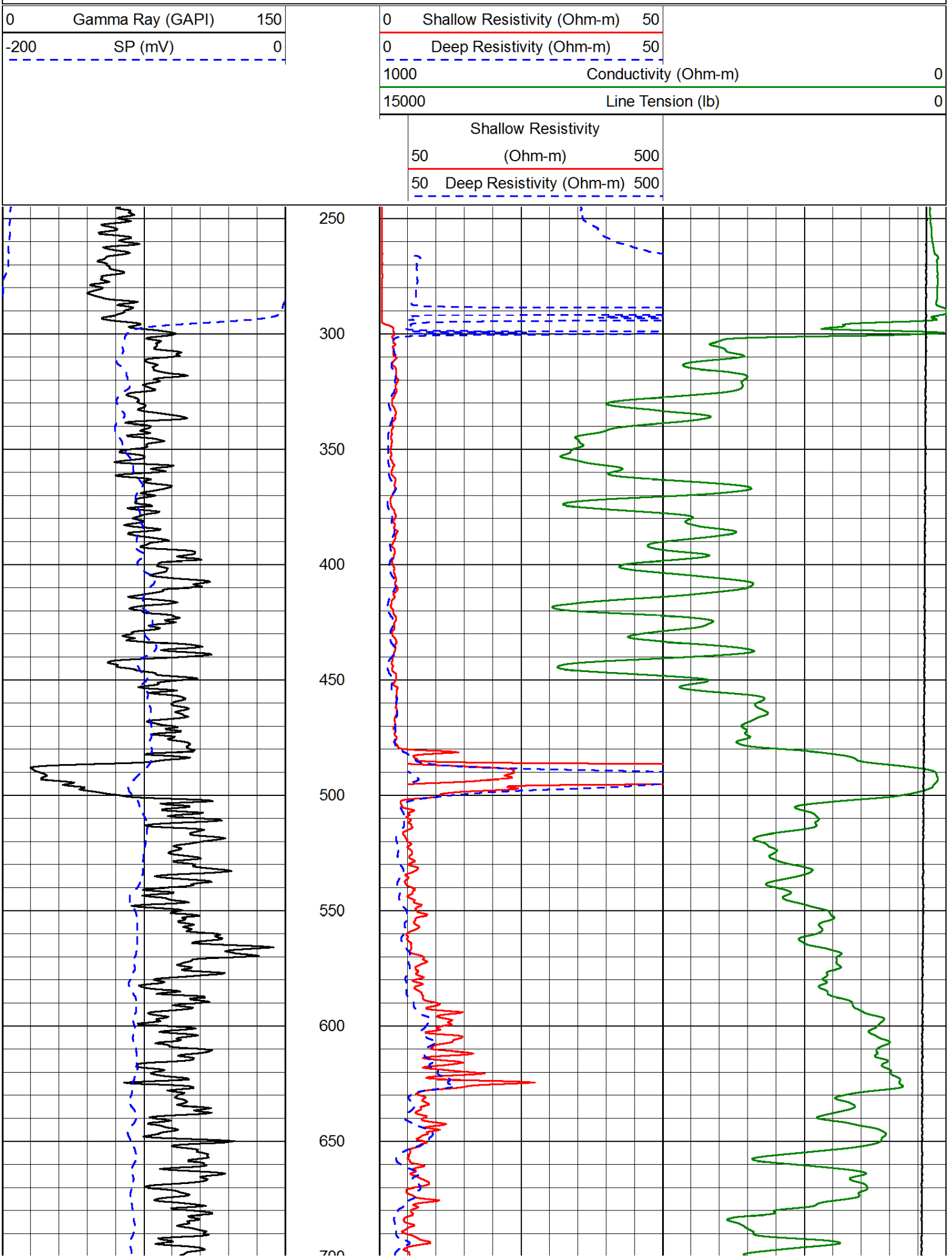
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

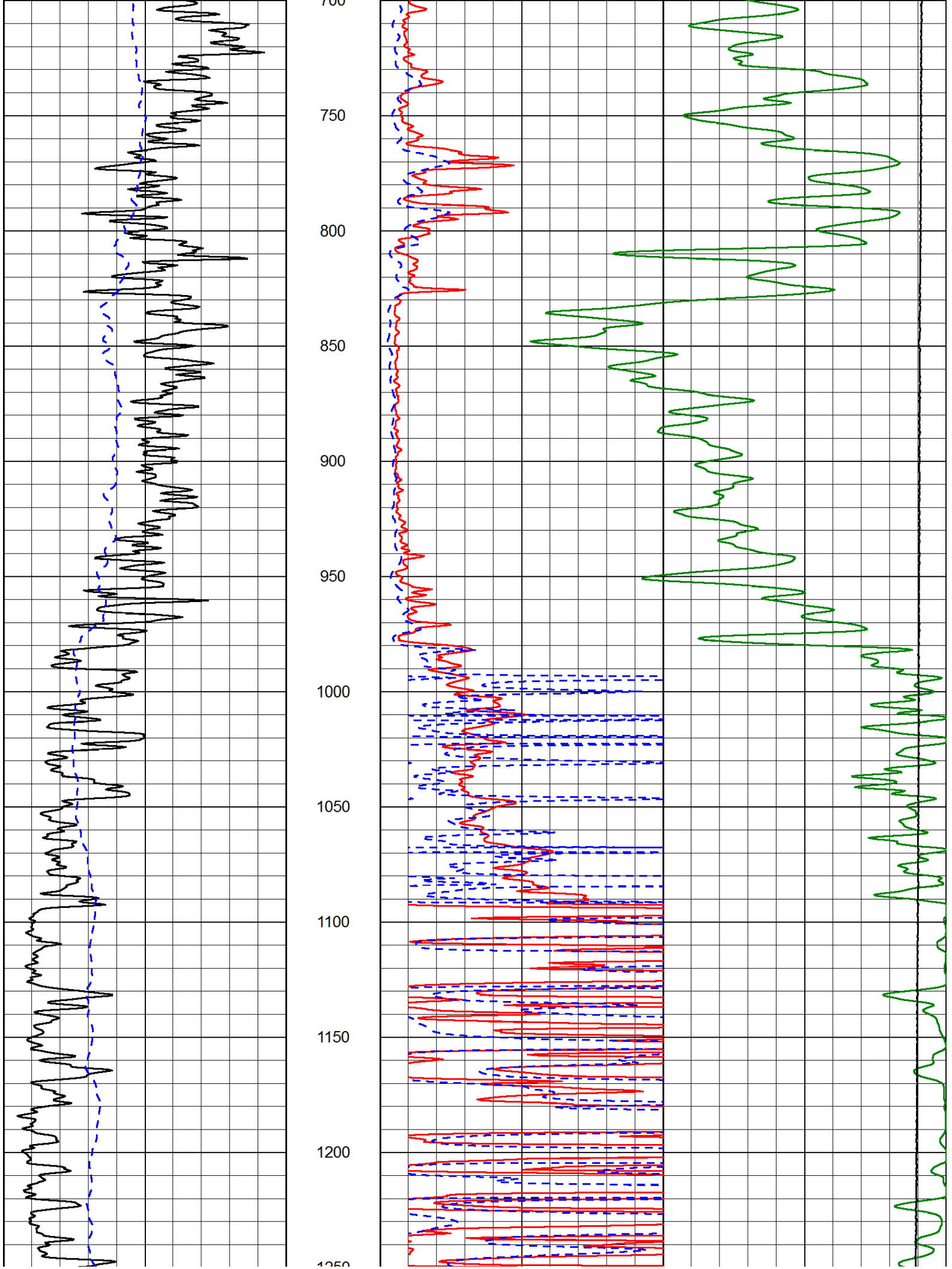
Comments

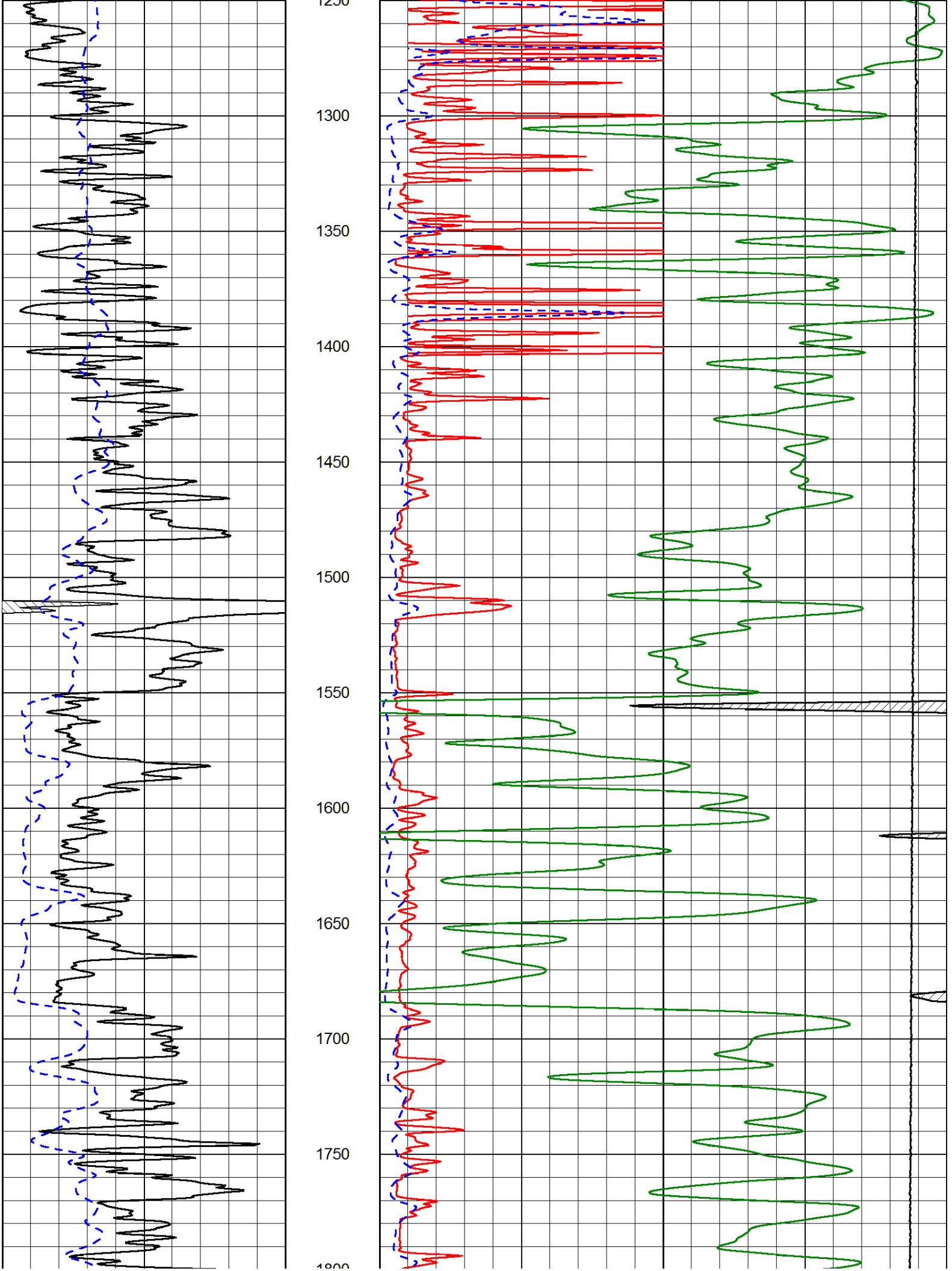
Thank you for using Log-Tech, Inc.
(785) 625-3858

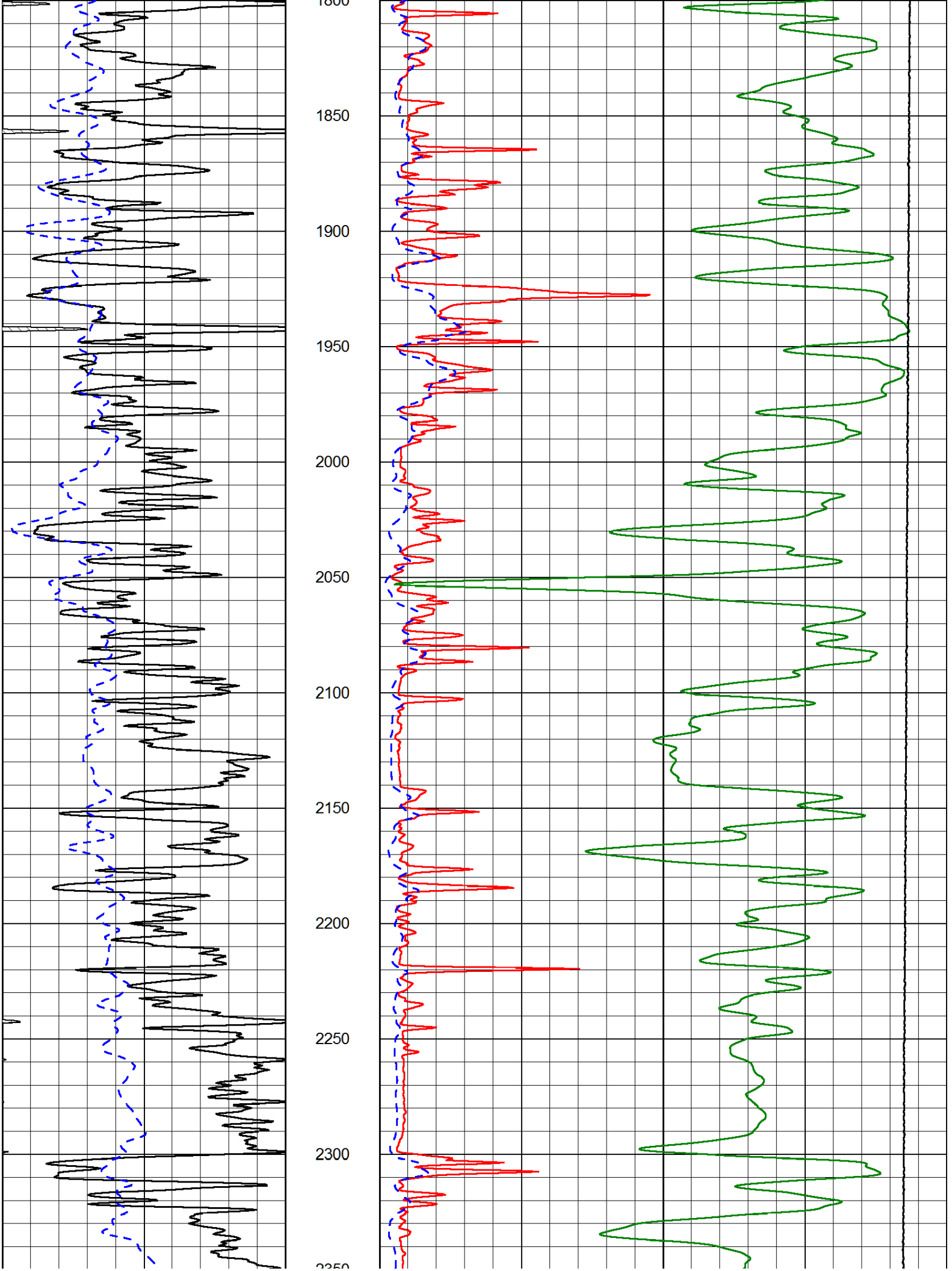
Ellinwood,
2 North, 1/2 East,
North into

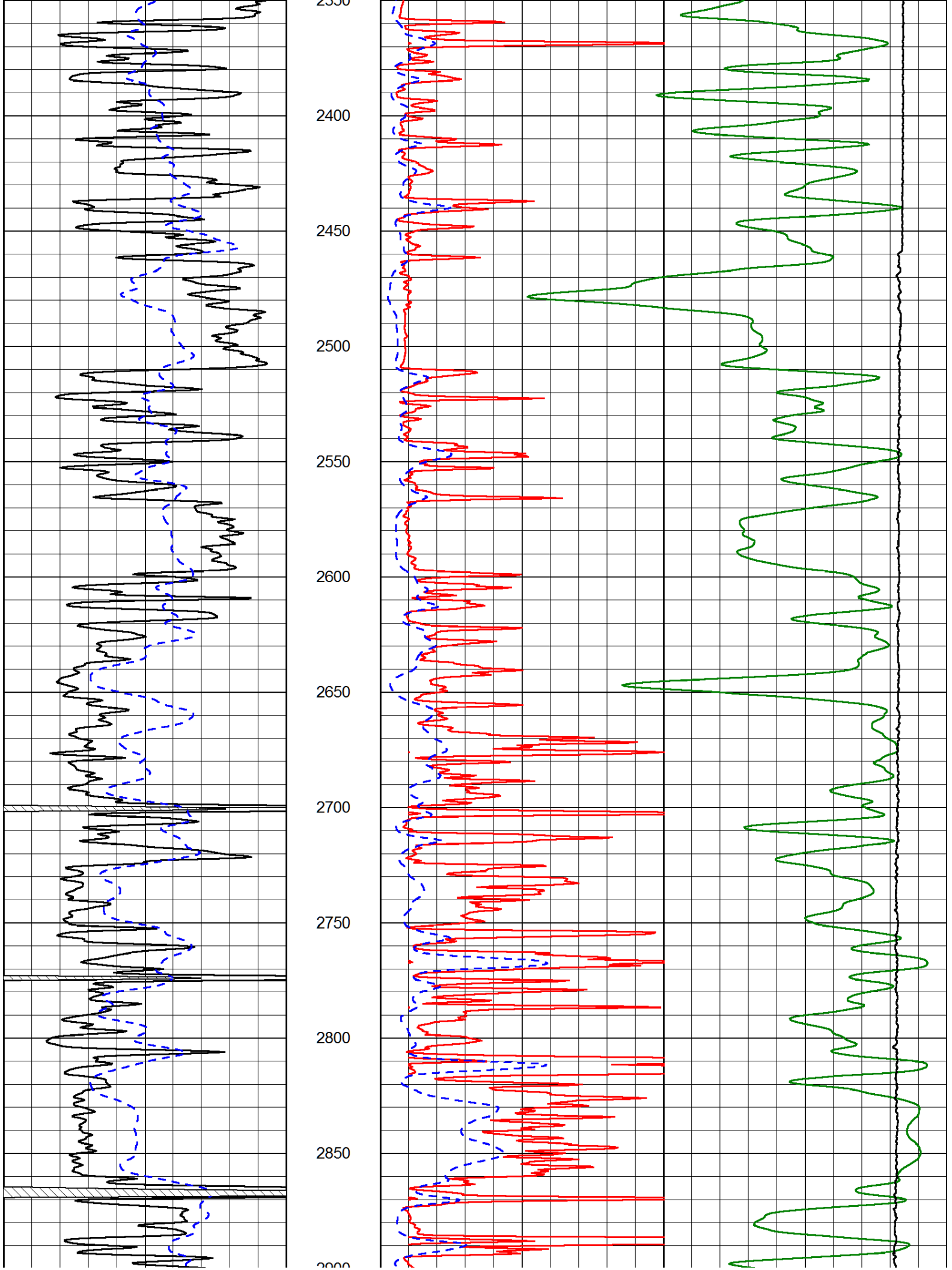
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Presentation Format:	dil2in
Dataset Creation:	Sun Sep 15 17:22:12 2013
Charted by:	Depth in Feet scaled 1:600

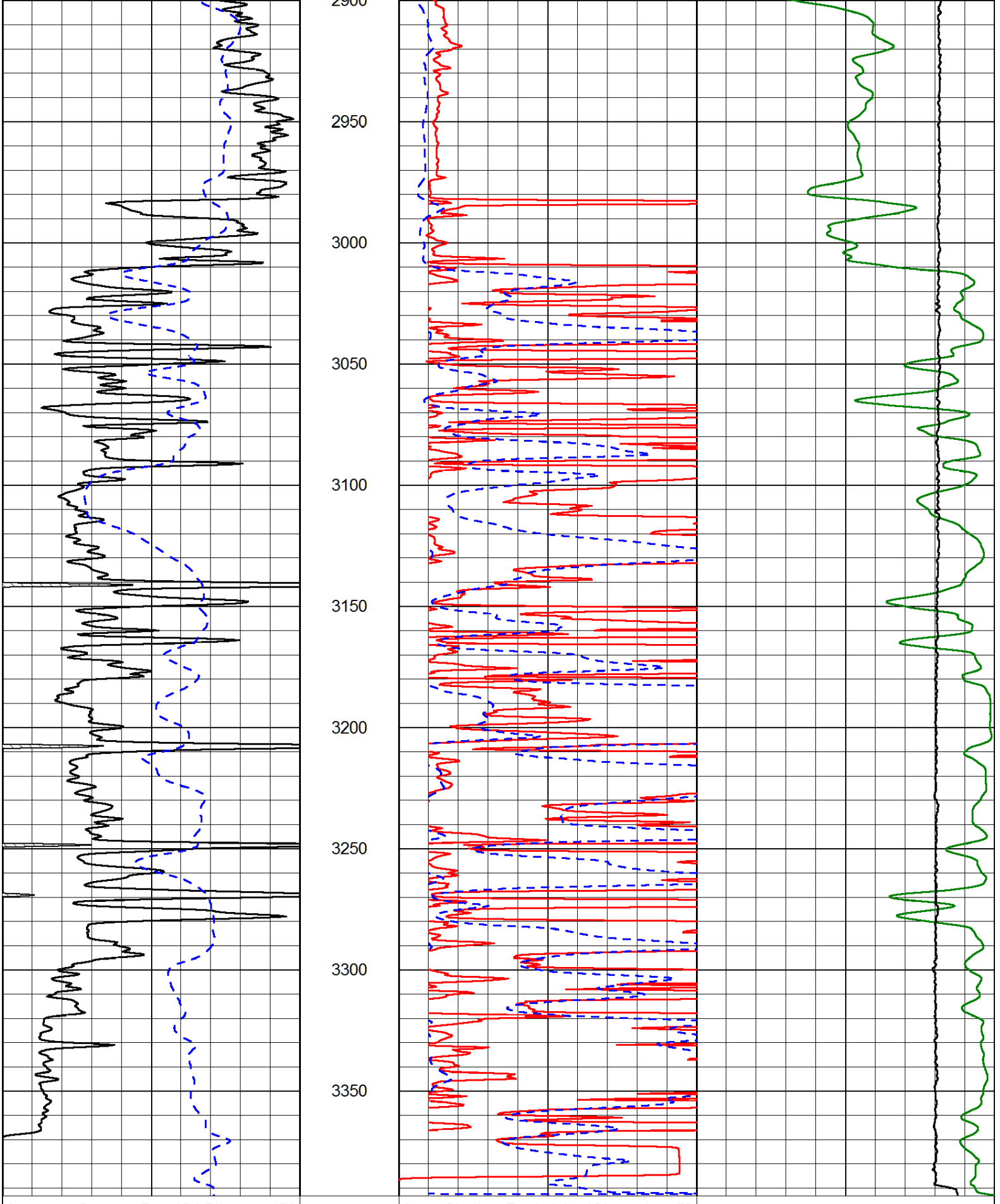

0 Gamma Ray (GAPI) 150
-200 SP (mV) 0
0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0
Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500
250
300
350
400
450
500
550
600
650
700


700
750
800
850
900
950
1000
1050
1100
1150
1200
1250


1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800


1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350


2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900


2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
0 Gamma Ray (GAPI) 150
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0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0
Shallow Resistivity

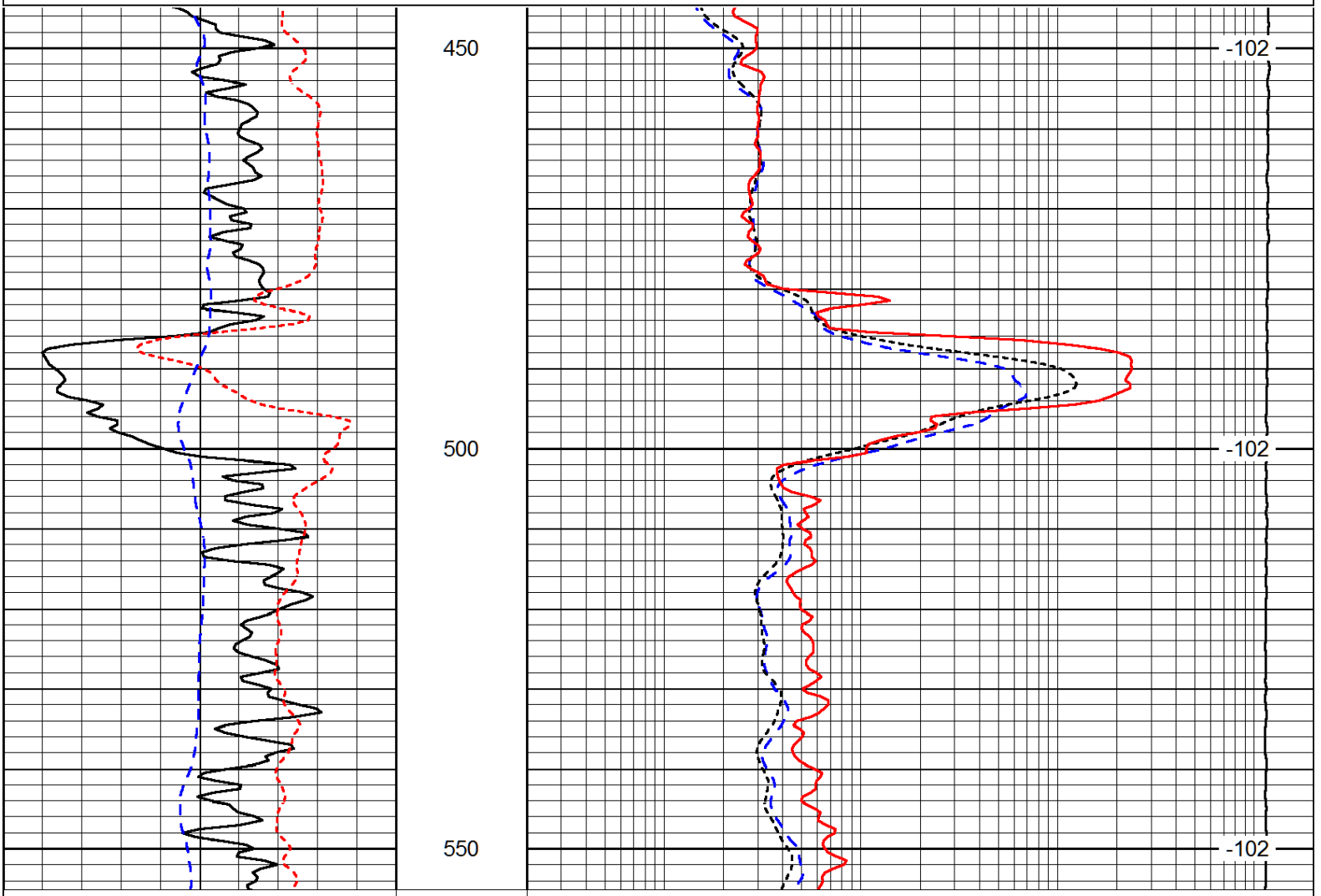
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File: carrie_091513hd.db
Dataset Pathname: dil/carriestk
Presentation Format: dil
Dataset Creation: Sun Sep 15 17:22:12 2013
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-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)



0	Gamma Ray (GAPI)	150
-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)

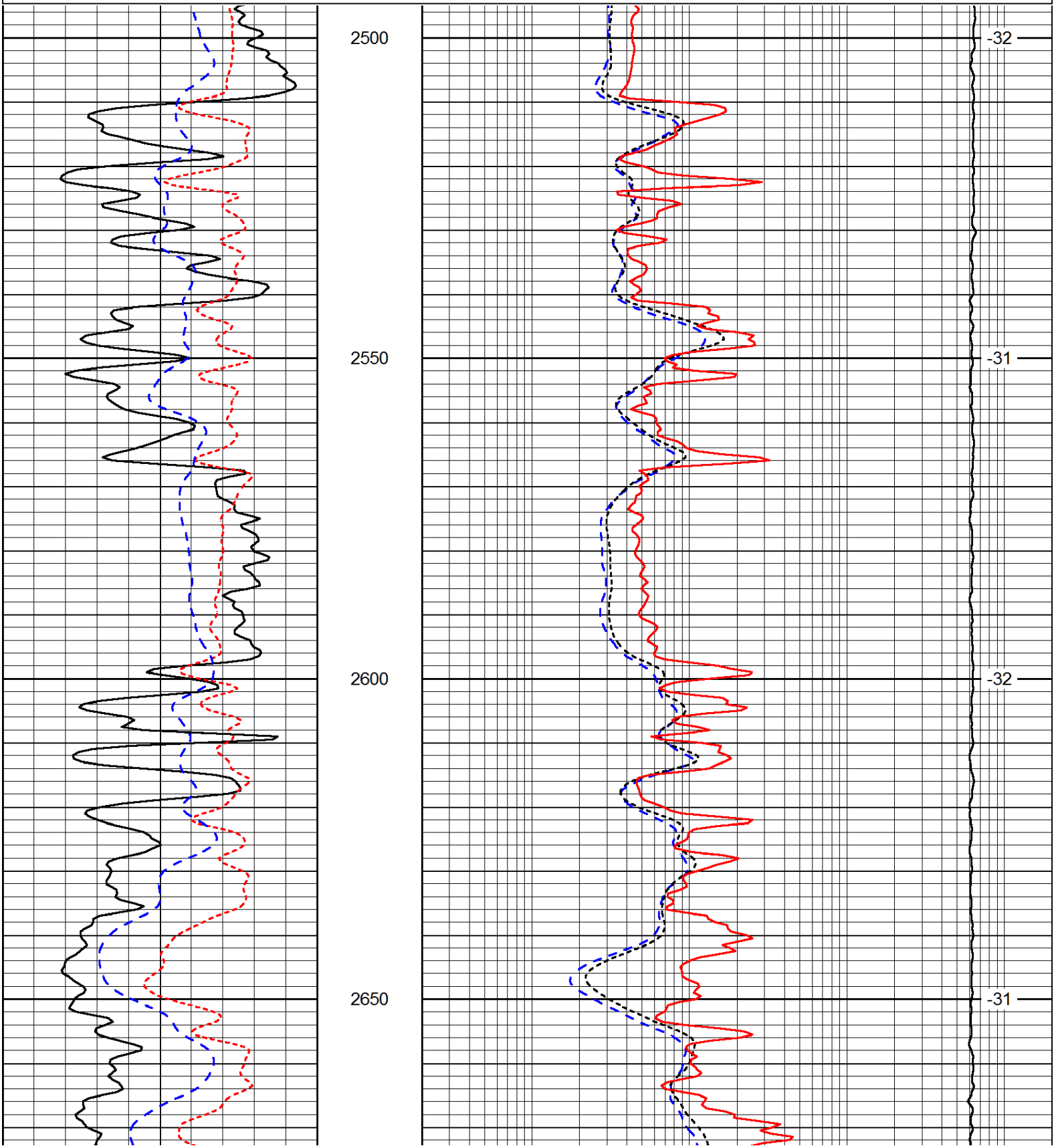
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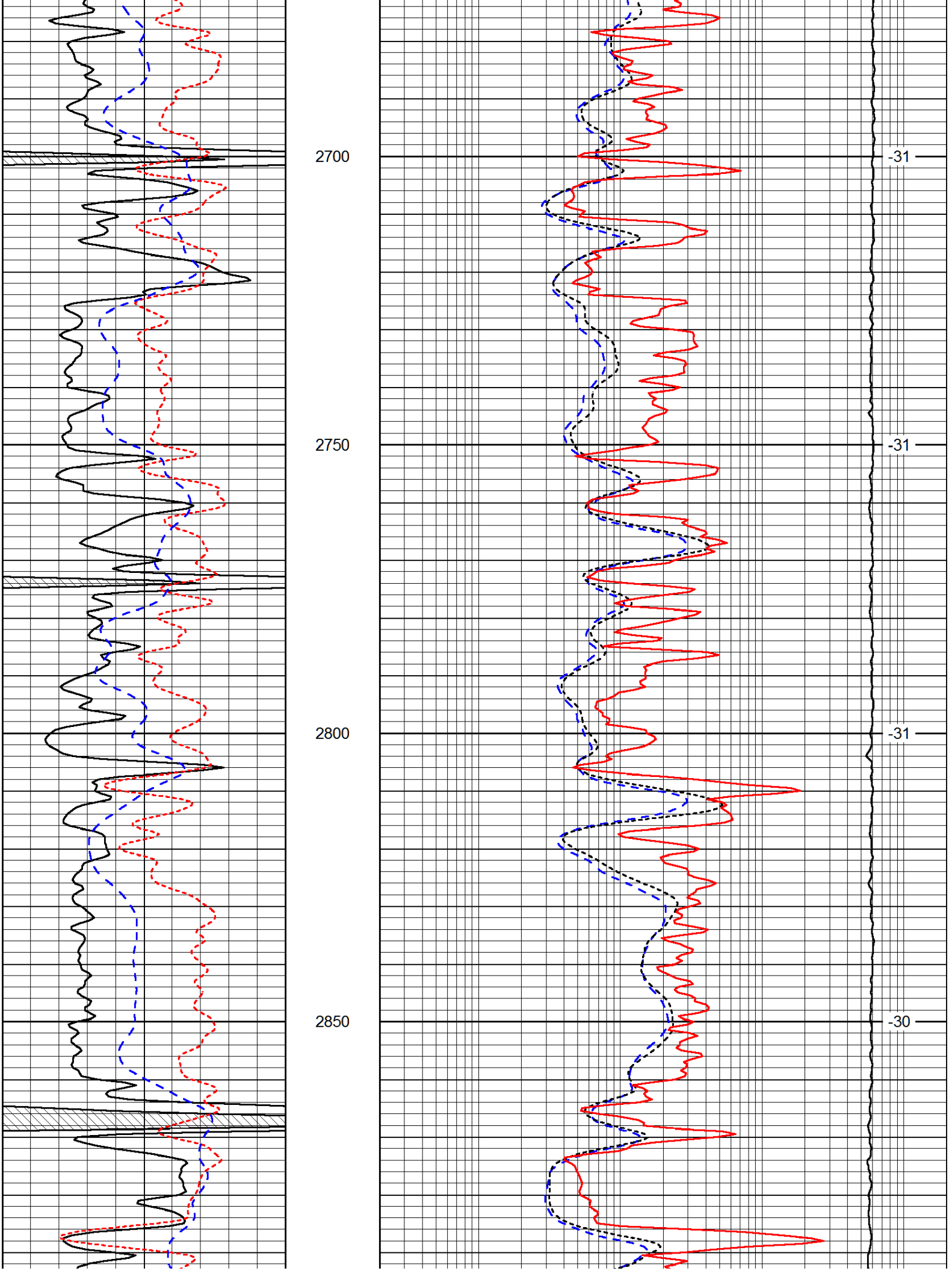
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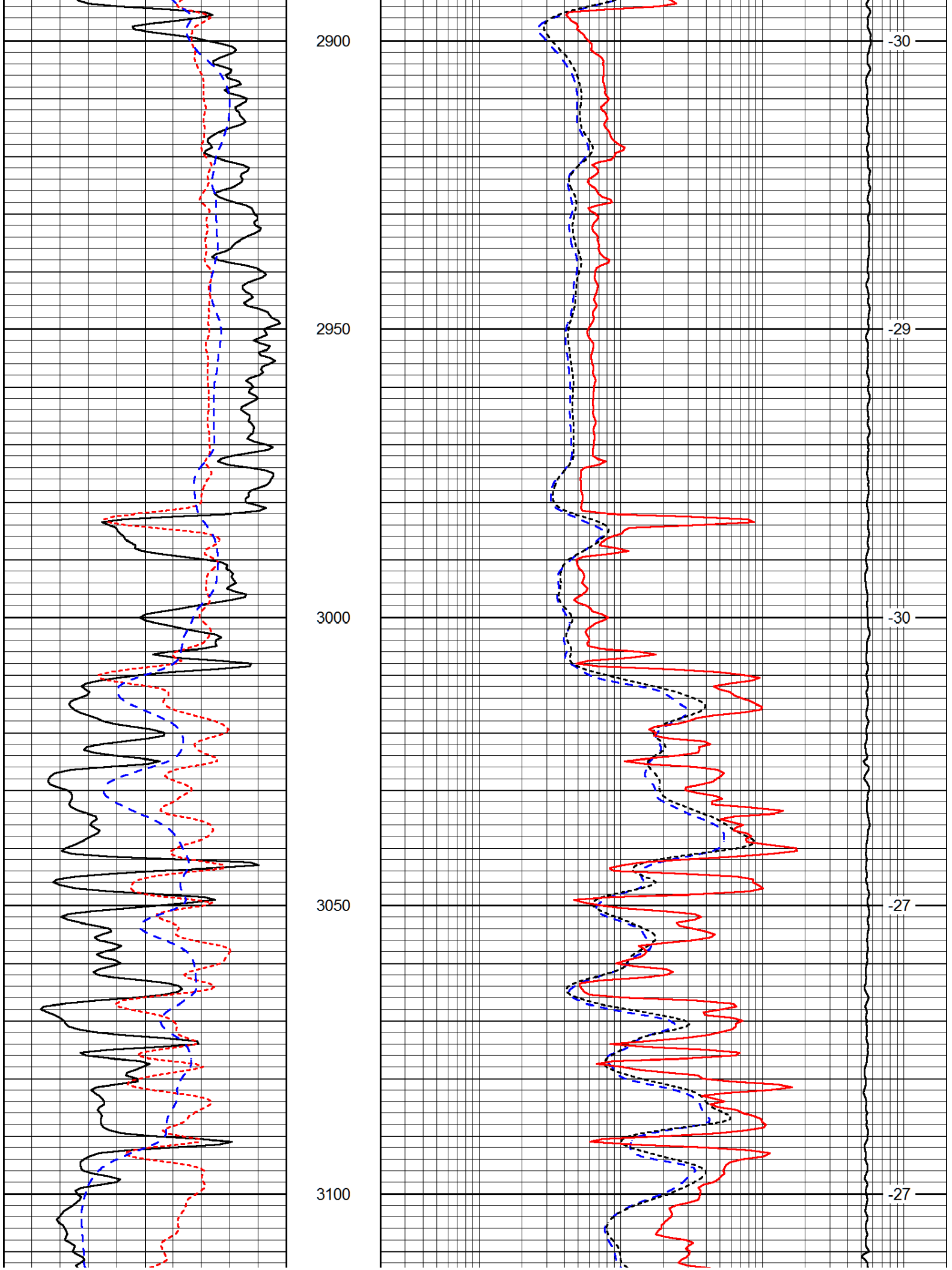
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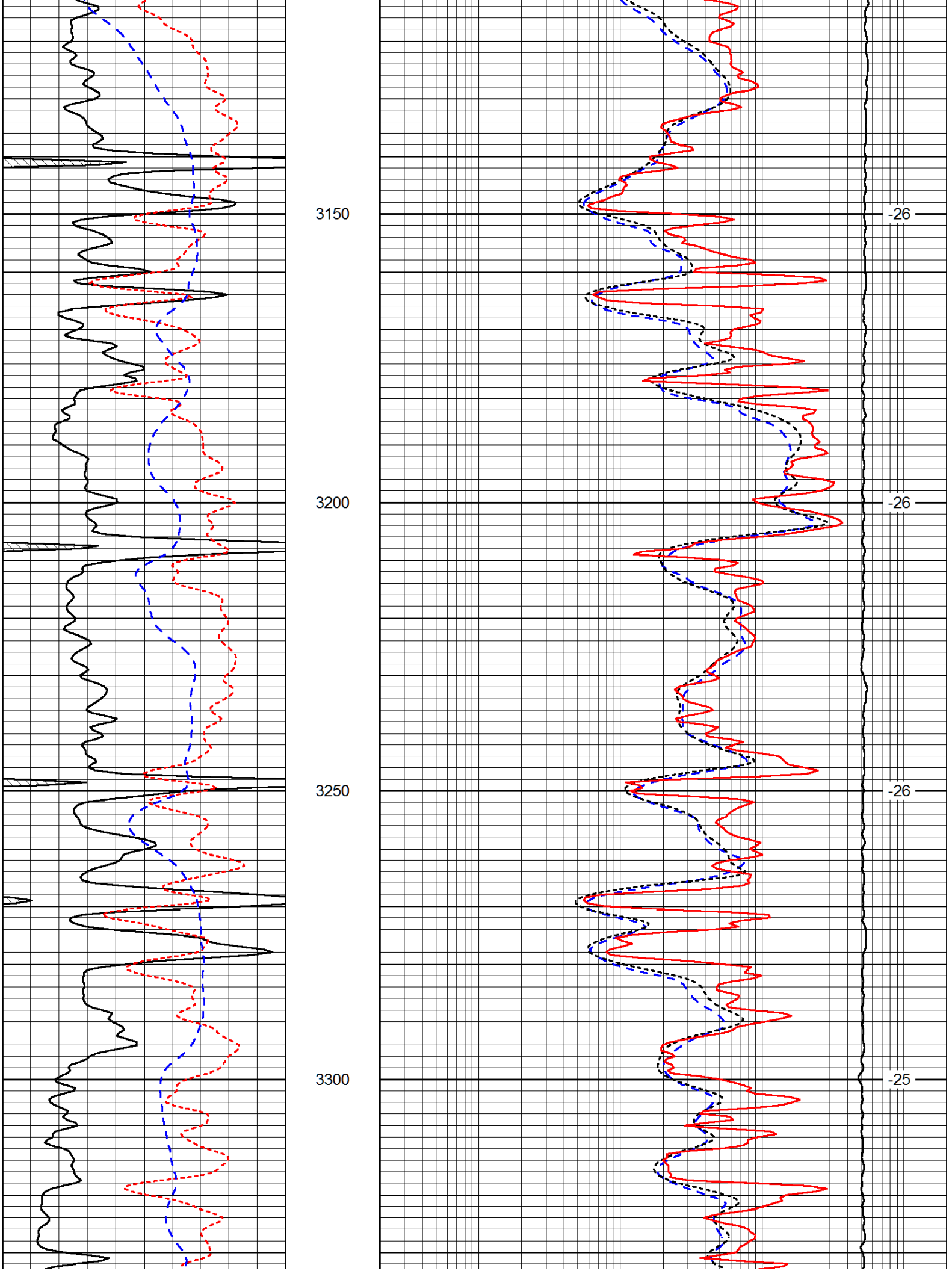
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

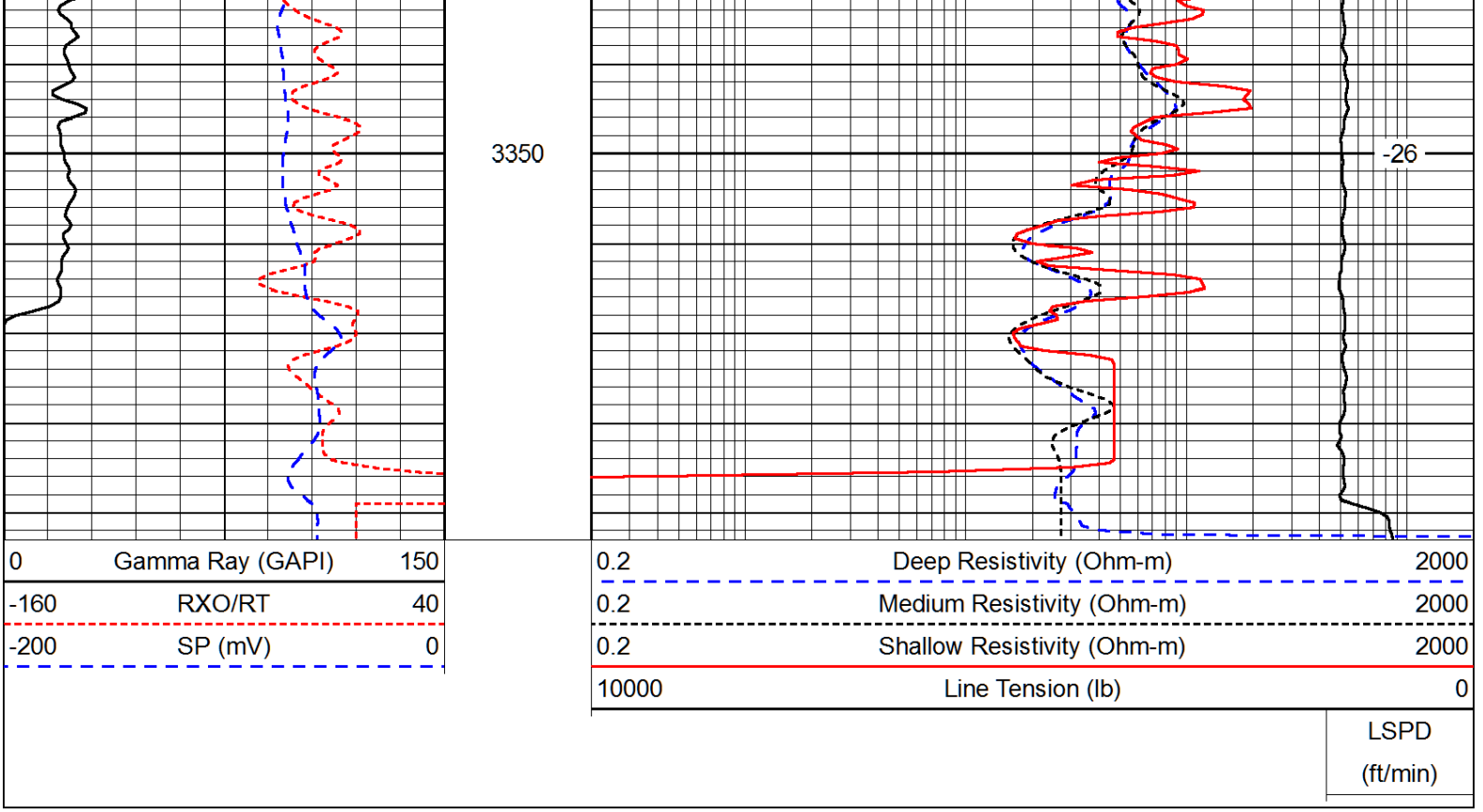
LSPD (ft/min)




2700
2750
2800
2850
-31
-31
-31
-30


2900
2950
3000
3050
3100
-30
-29
-30
-27
-27


3150
3200
3250
3300
-26
-26
-26
-25



0	Gamma Ray (GAPI)	150
-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)