



Pioneer Energy Services

Dual Induction Log

API No.

15-083-21879-00-00

Company American Warrior, Inc.

Well Cure-Ruff #1-9

Field Wildcat

County Hodgeman State

Kansas

Location

128' FSL / 2226' FWL

Other Services
CNL / CDL
MEL / BHCS

Sec: 9

Twp: 22S

Rge: 21W

Elevation

Permanent Datum Ground Level Elevation 2148
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

Run Number

Depth Driller

Depth Logger

Bottom Logged Interval

Top Log Interval

Casing Driller

Casing Logger

Bit Size

Type Fluid in Hole

Salinity, ppm CL

Density / Viscosity

pH / Fluid Loss

Source of Sample

Rm @ Meas. Temp

Rmf @ Meas. Temp

Rmc @ Meas. Temp

Source of Rmf / Rmc

Rm @ BHT

Operating Rig Time

Max Rec. Temp. F

Equipment Number

Location

Recorded By

Witnessed By

2/16/2013

One

4500

4498

4497

1000

8.625 @ 1020

1008

7.875

Chemical

6200

9.2 67

10.5 10.4

Flowline

0.26 @ 50

0.20 @ 50

0.35 @ 50

Charts

0.11 @ 121

4 Hours

121

15

Hays

R. Barnhart

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

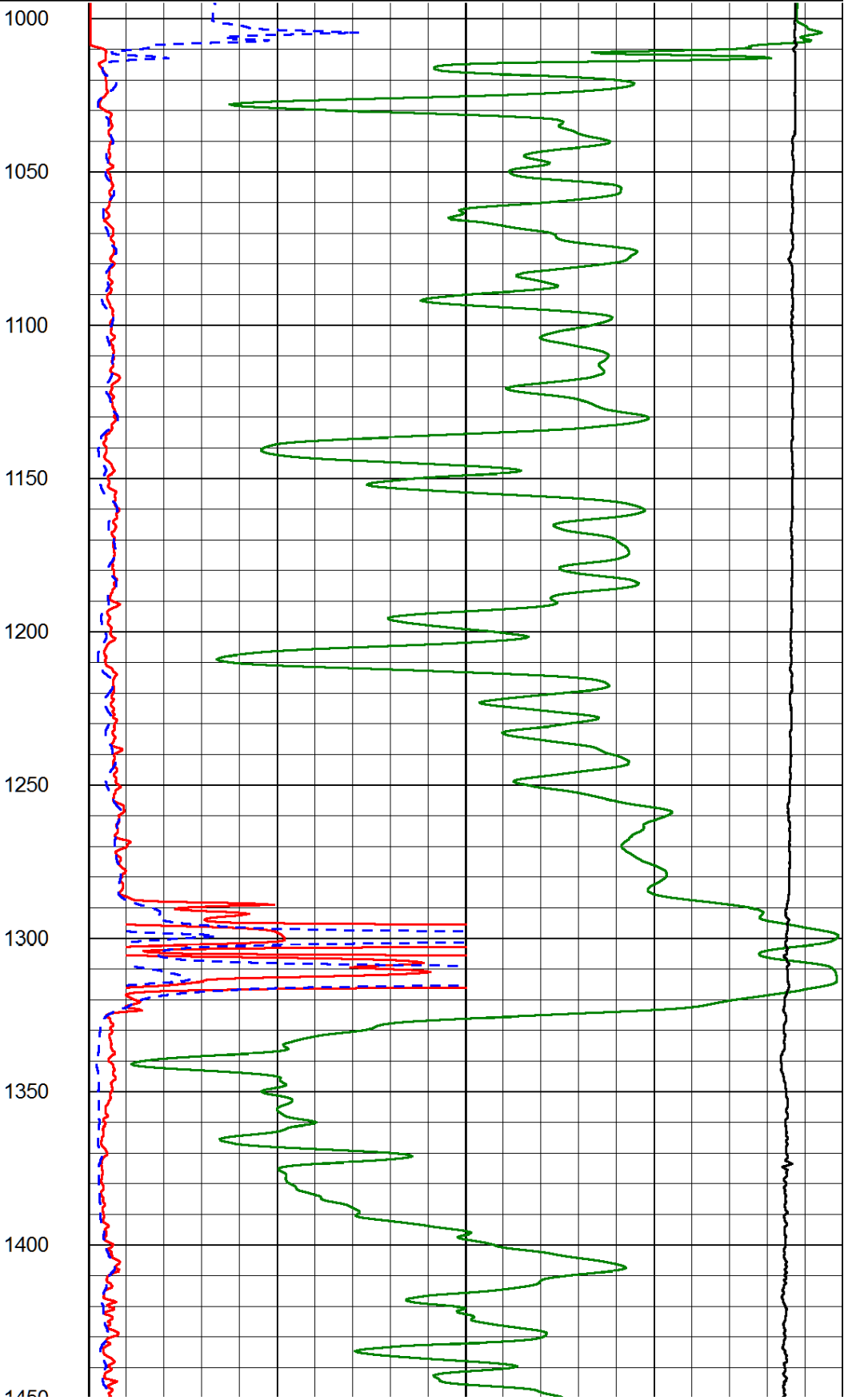
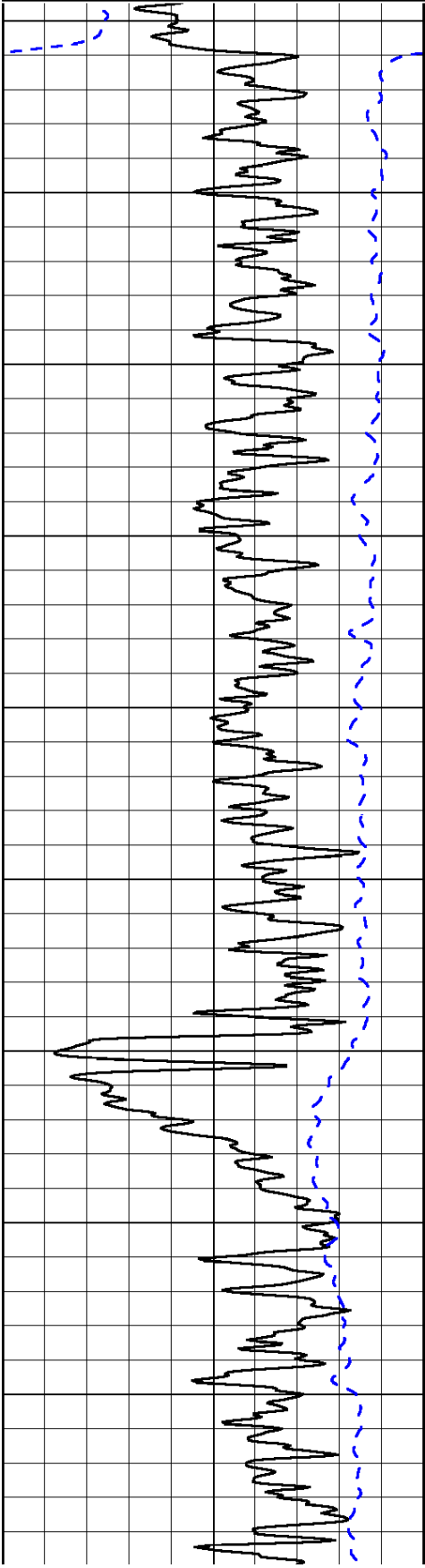
Thank you for using Log-Tech, Inc.
(785) 625-3858

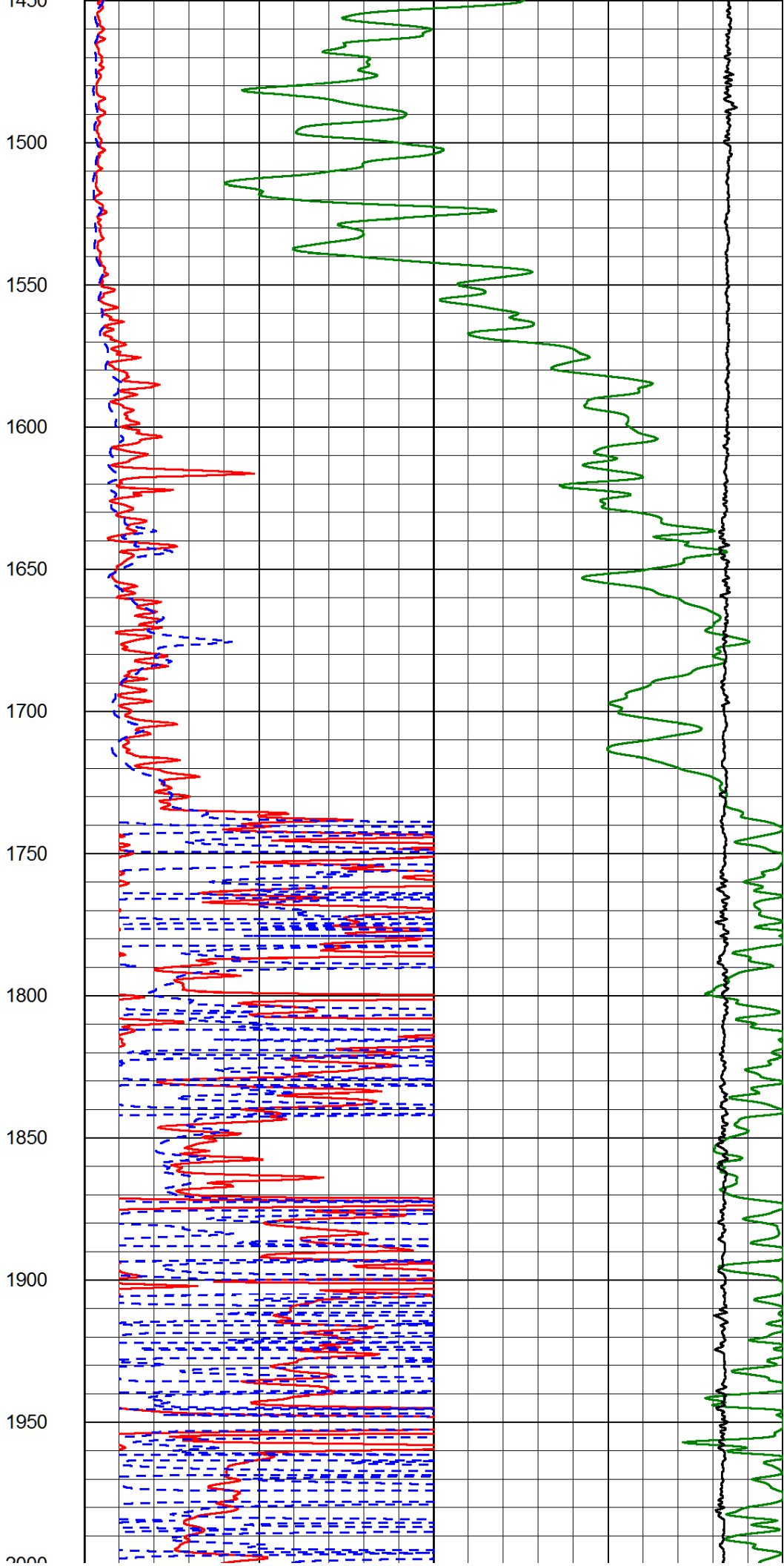
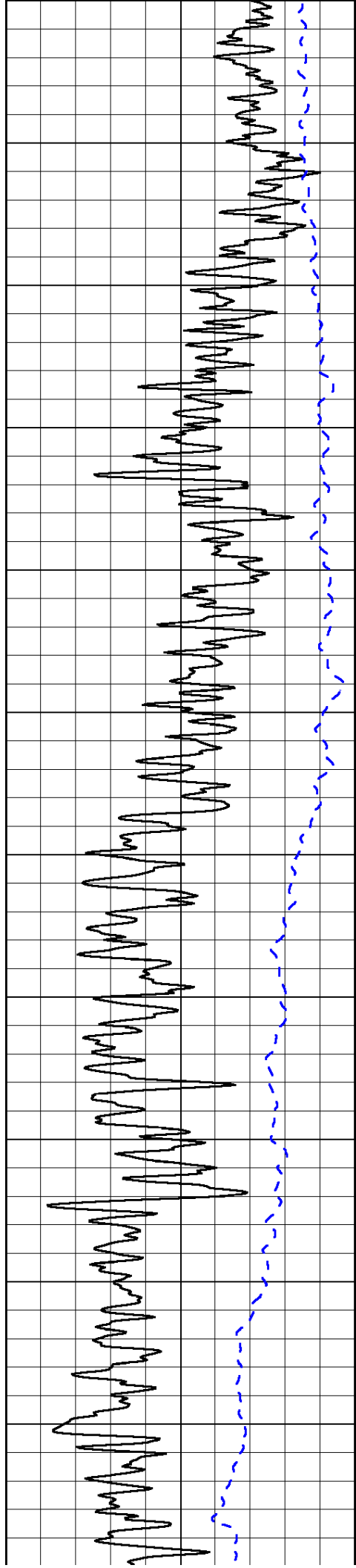
Burdett, KS:
6W, 1S, 1/2W, N into

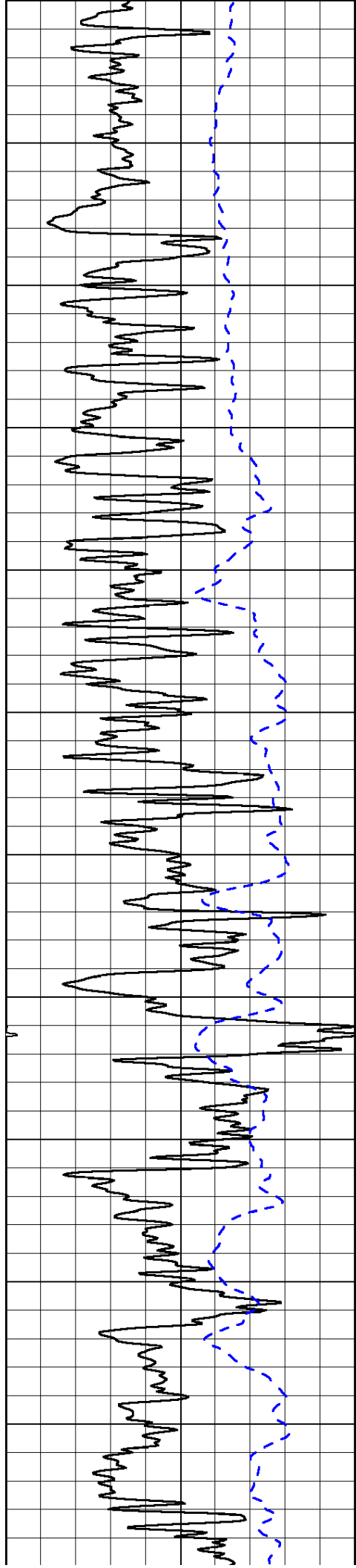
Database File: amwarhd.db
Dataset Pathname: dil/amwmain
Presentation Format: dil2in
Dataset Creation: Sat Feb 16 00:28:26 2013
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

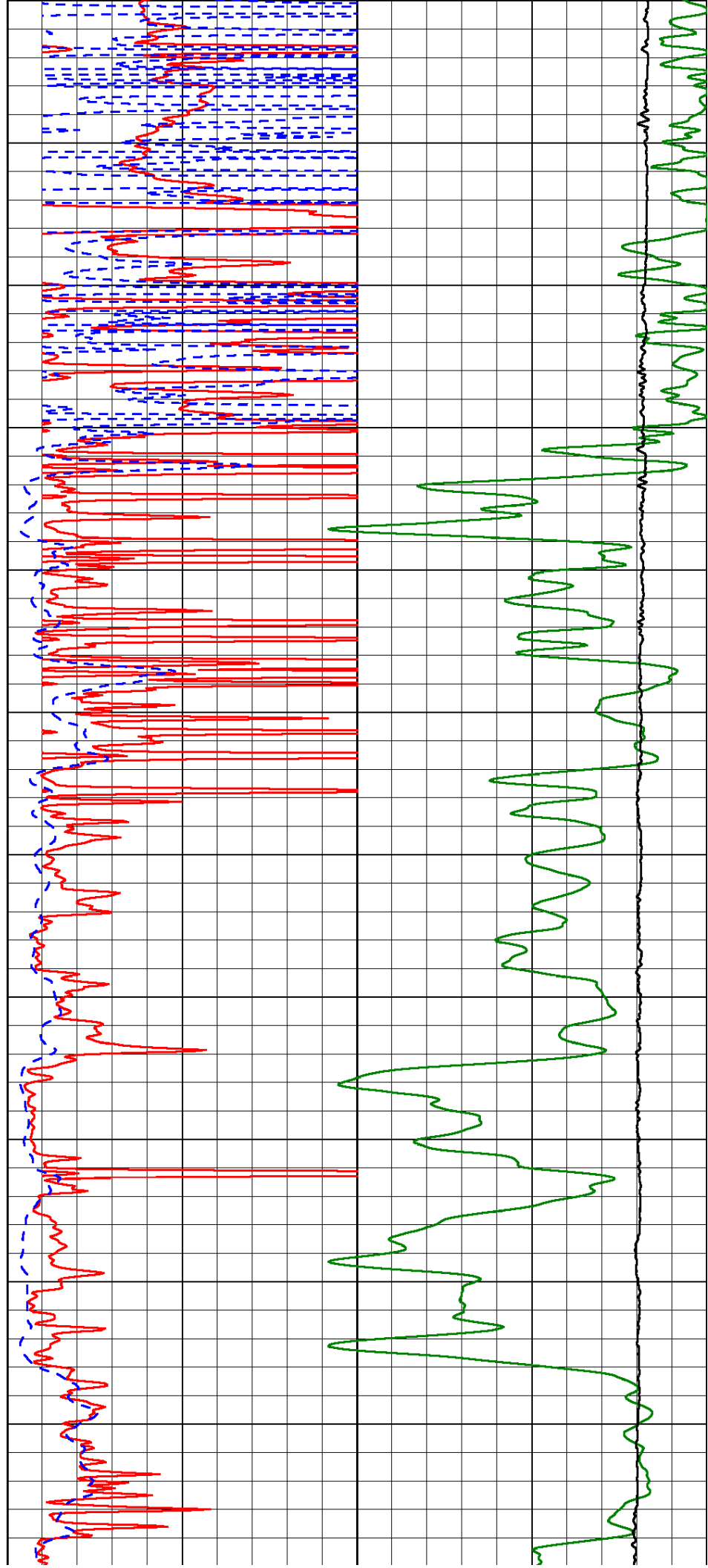
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

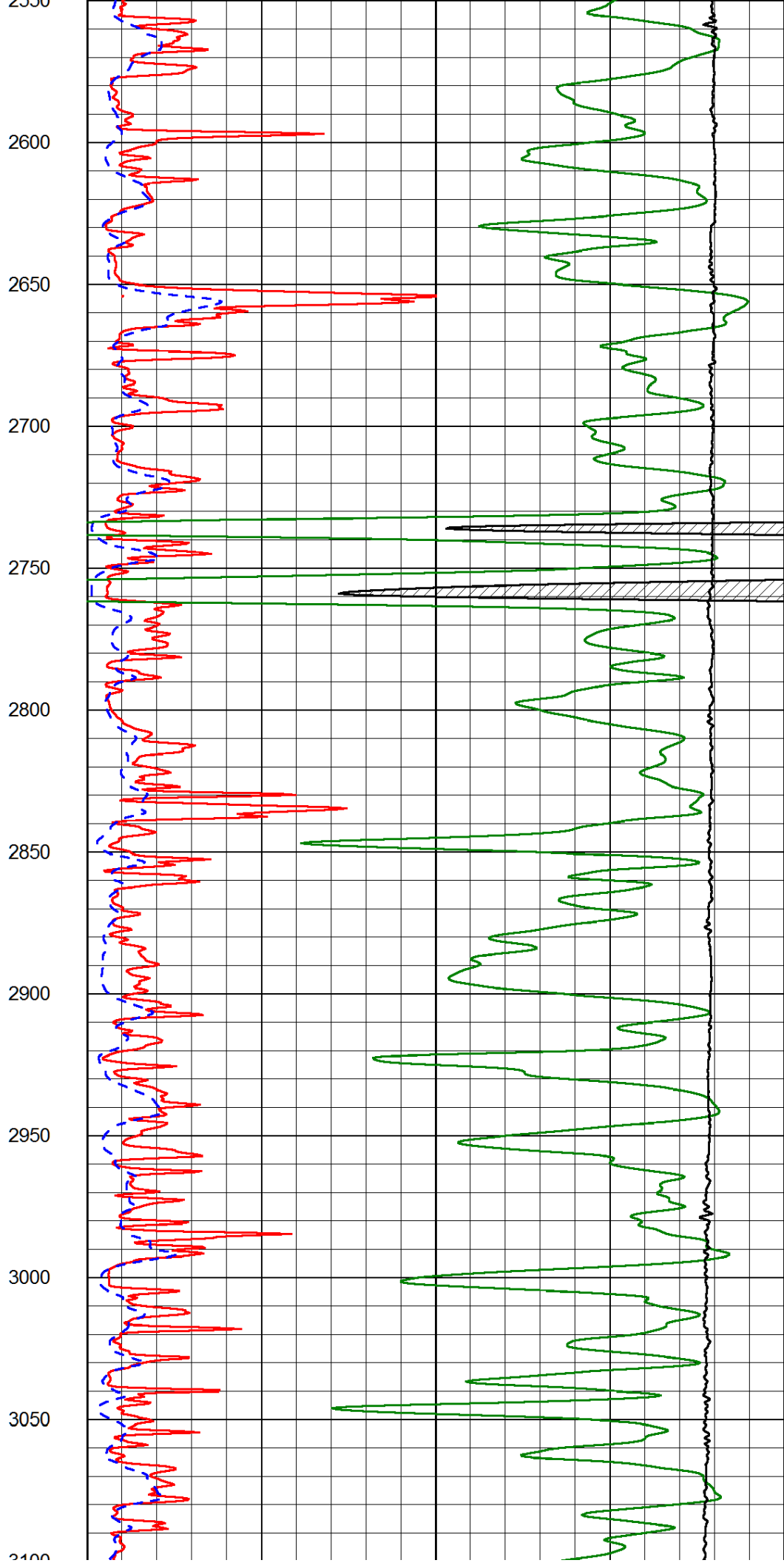
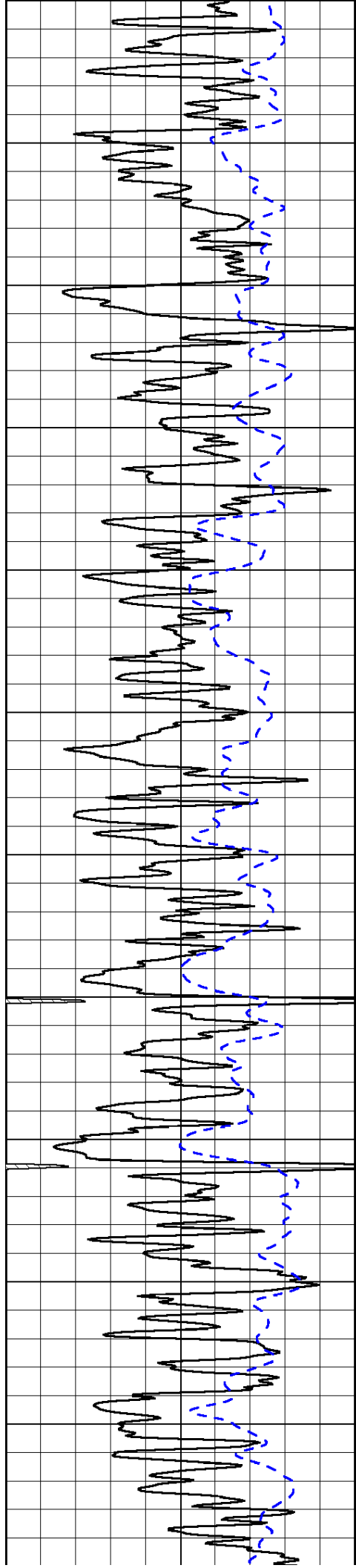


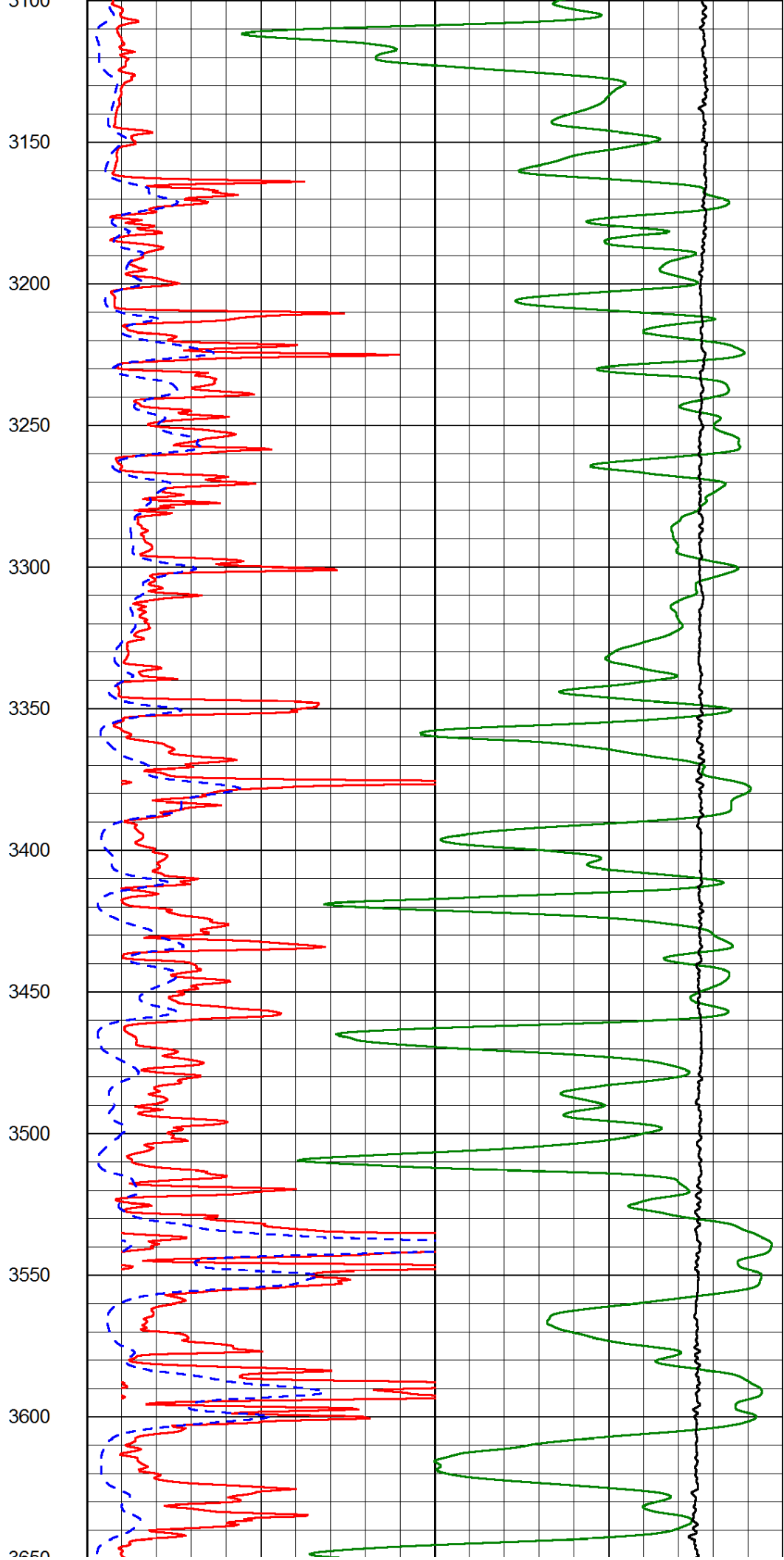
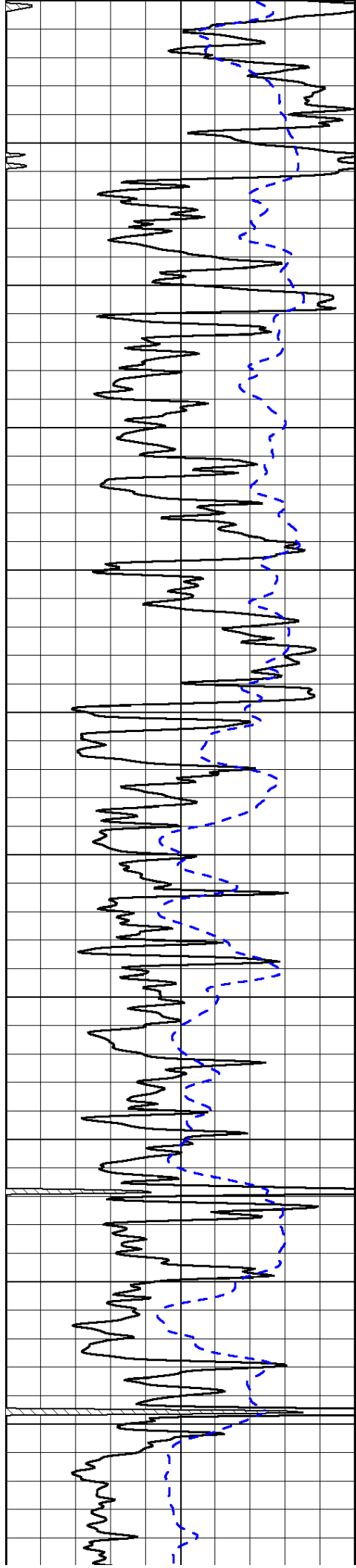


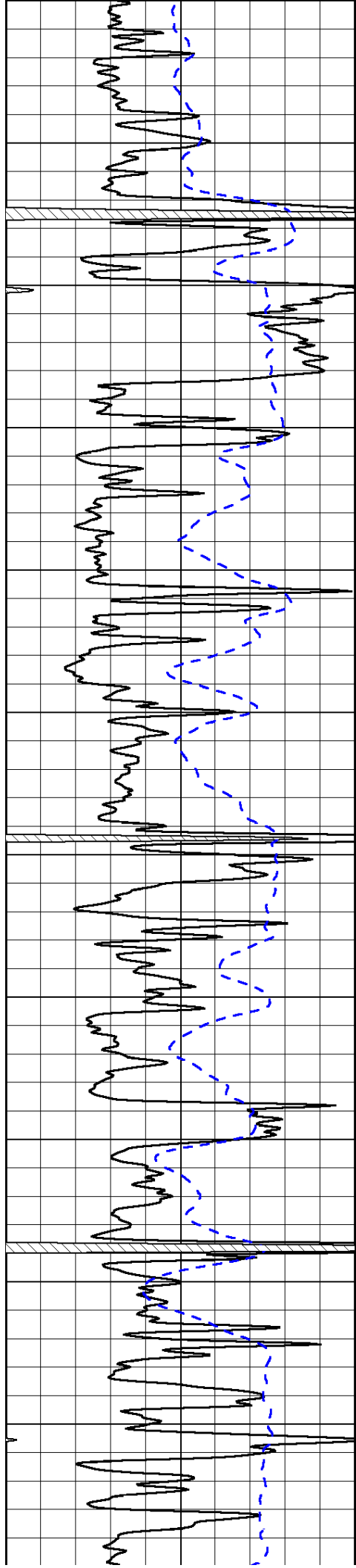


2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550

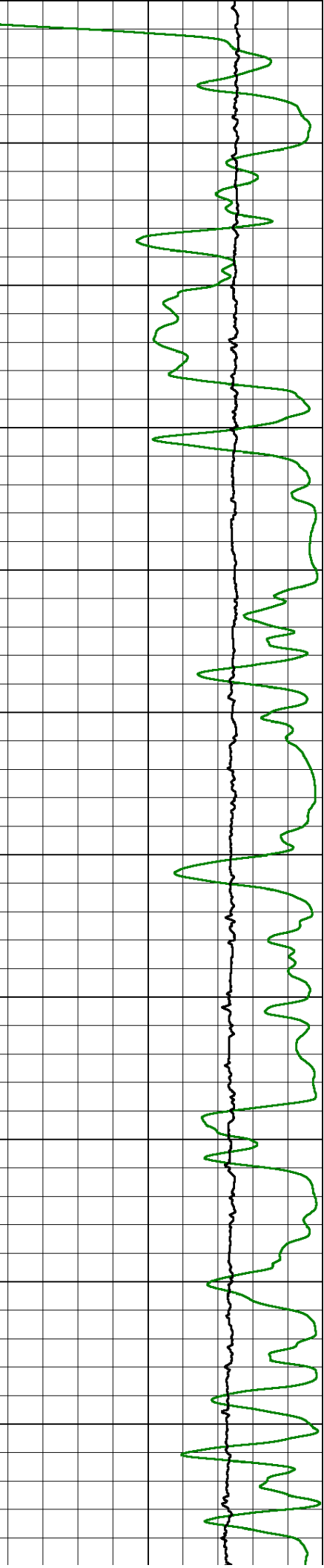
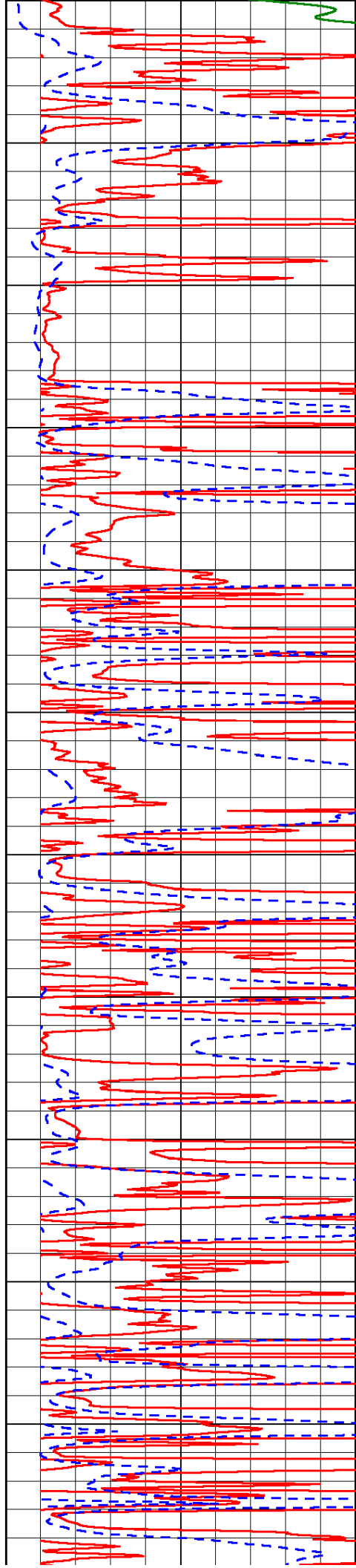


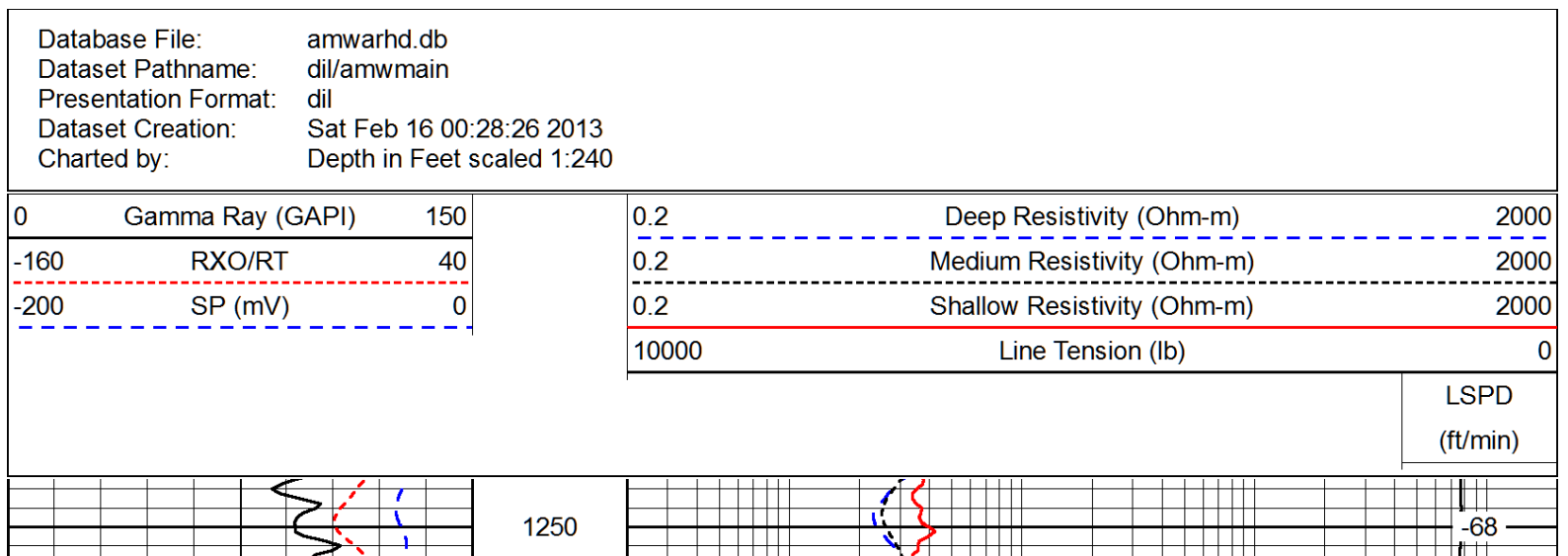
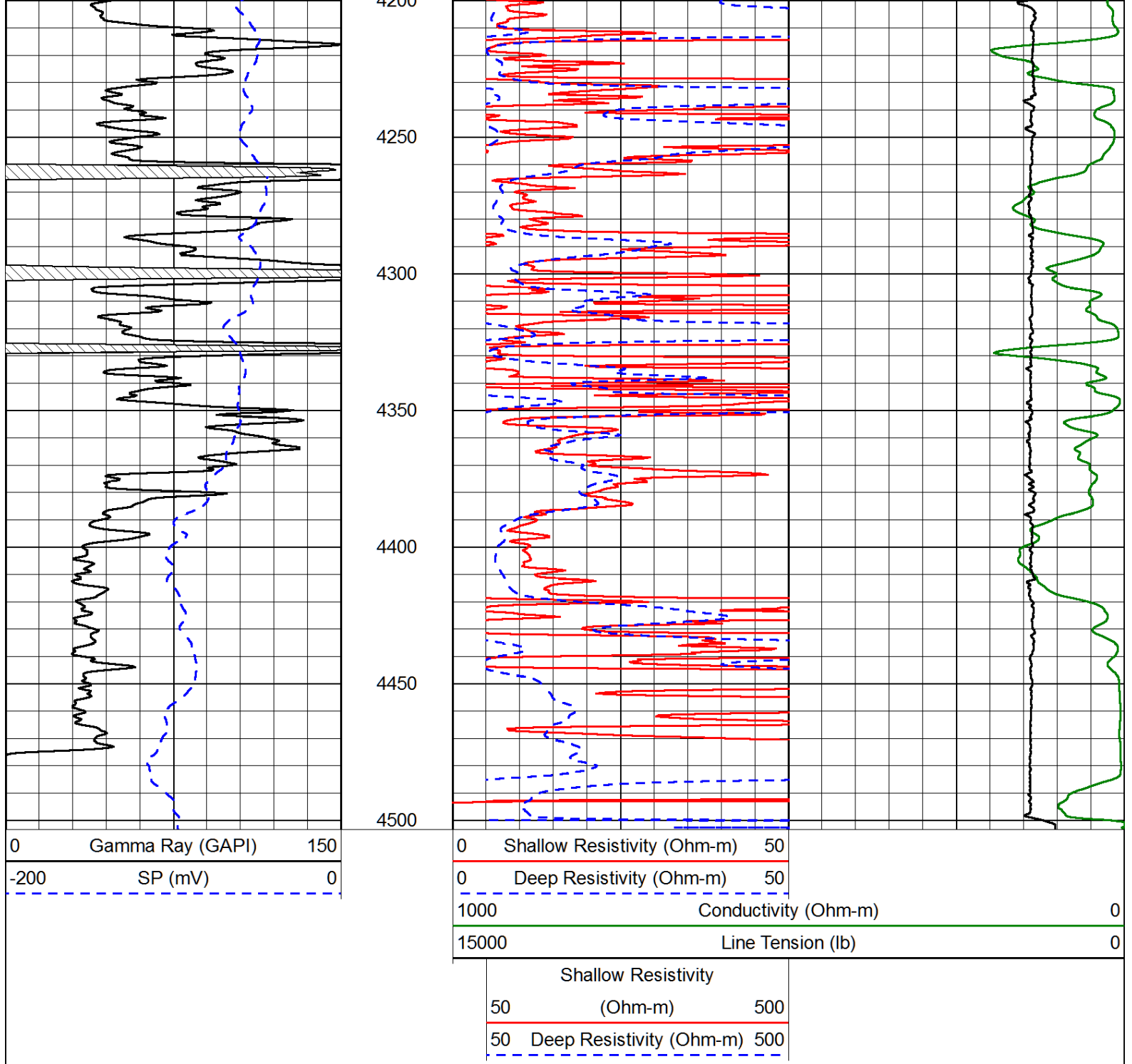


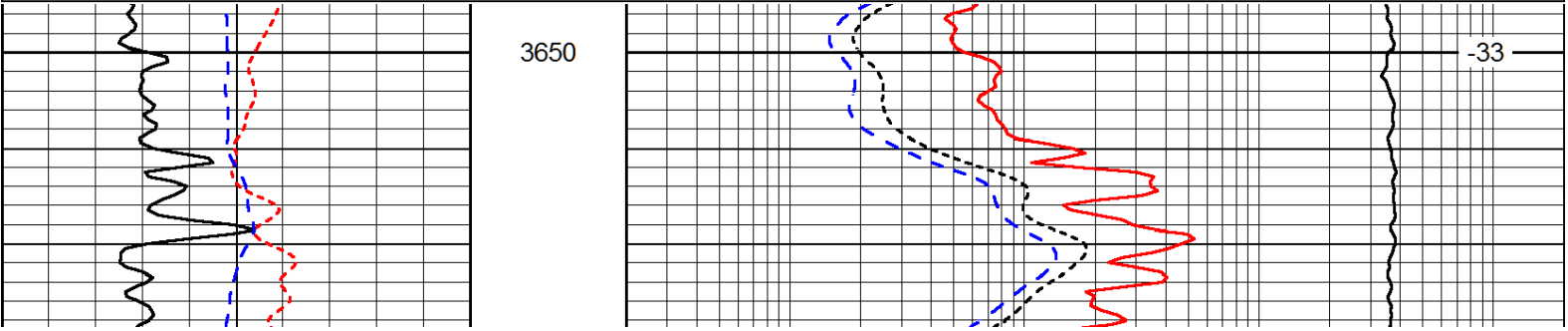
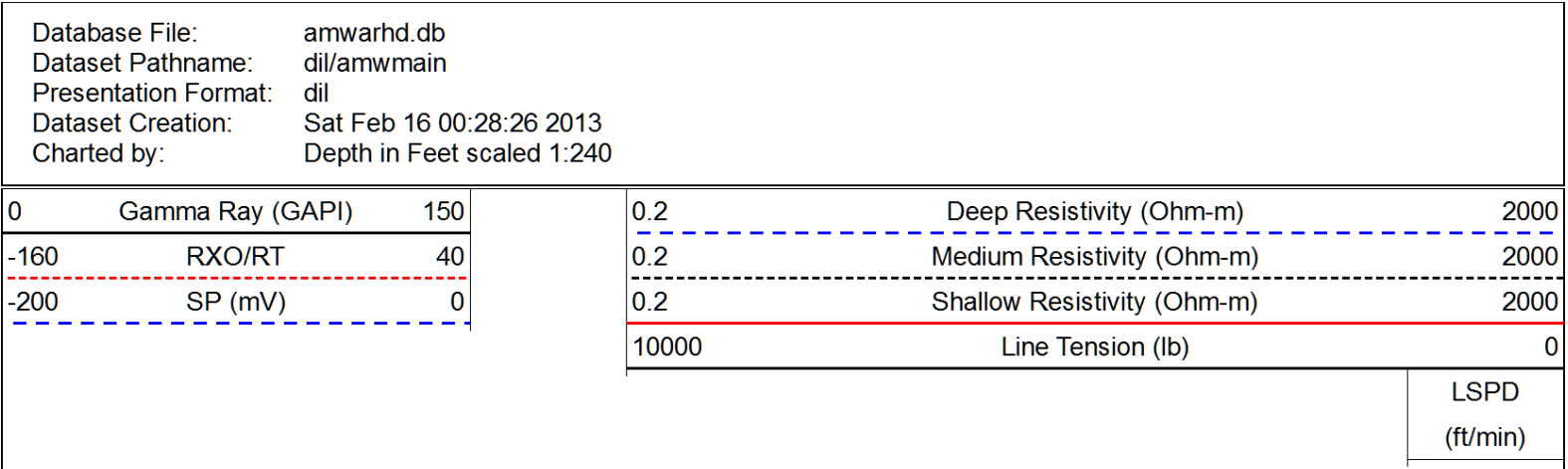
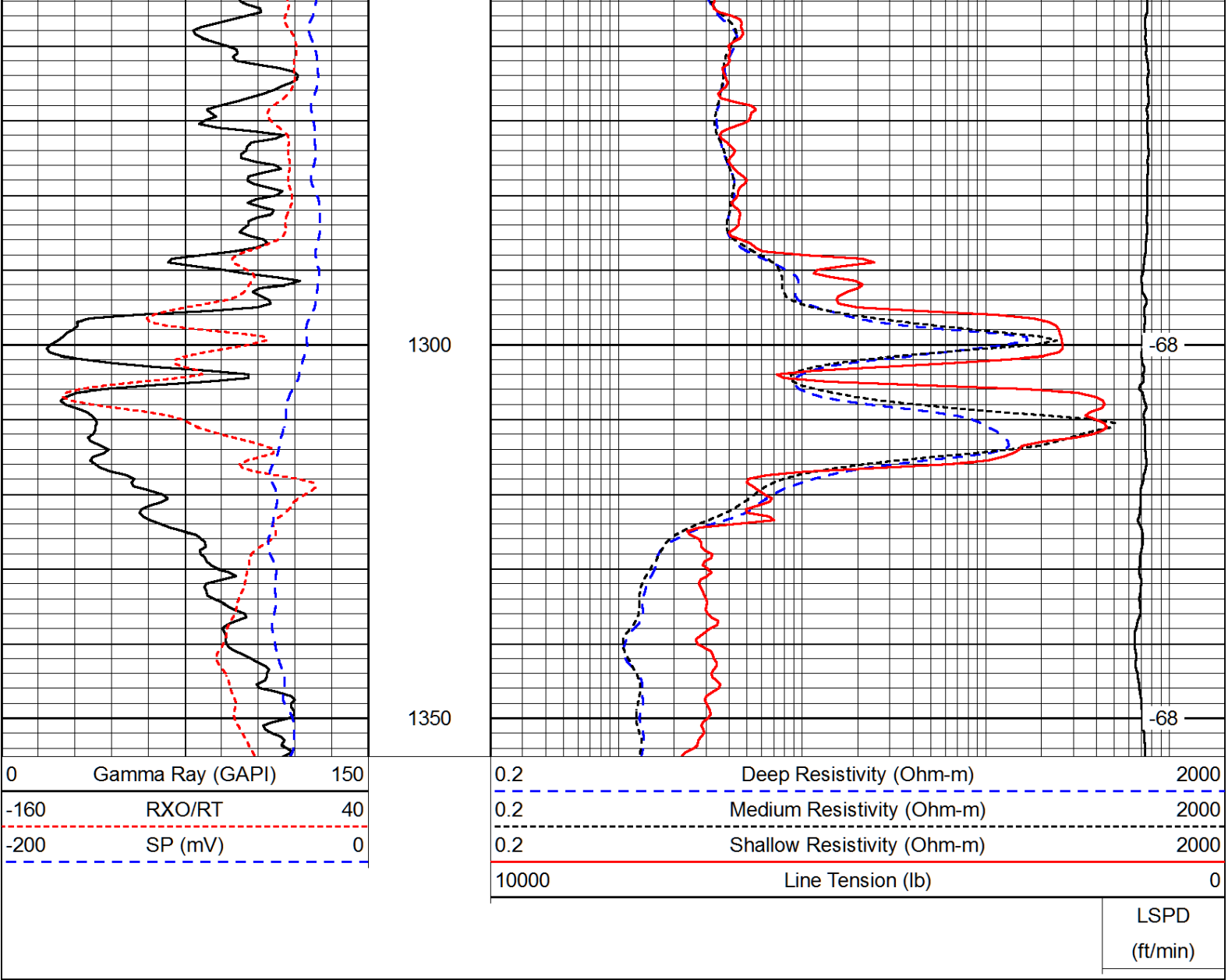


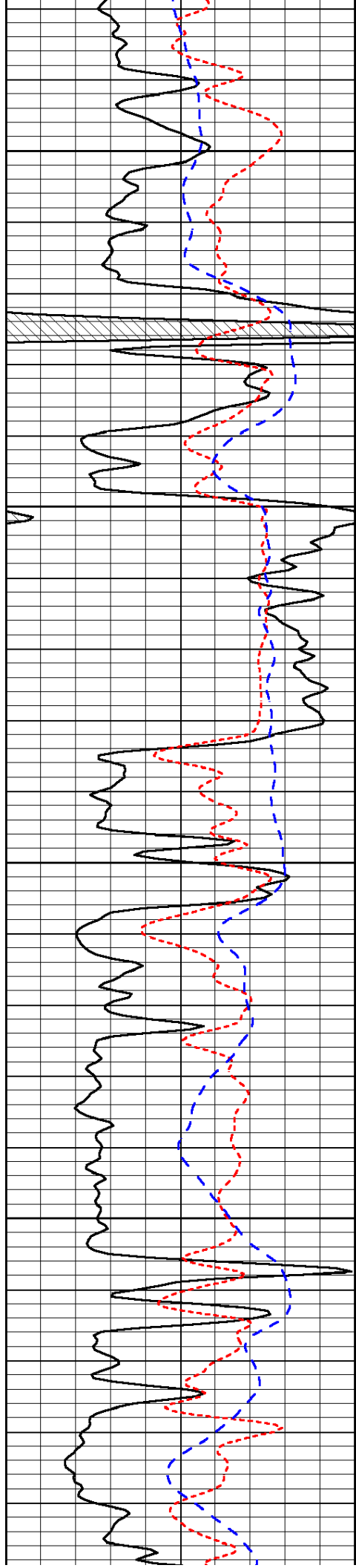


3650
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
4200







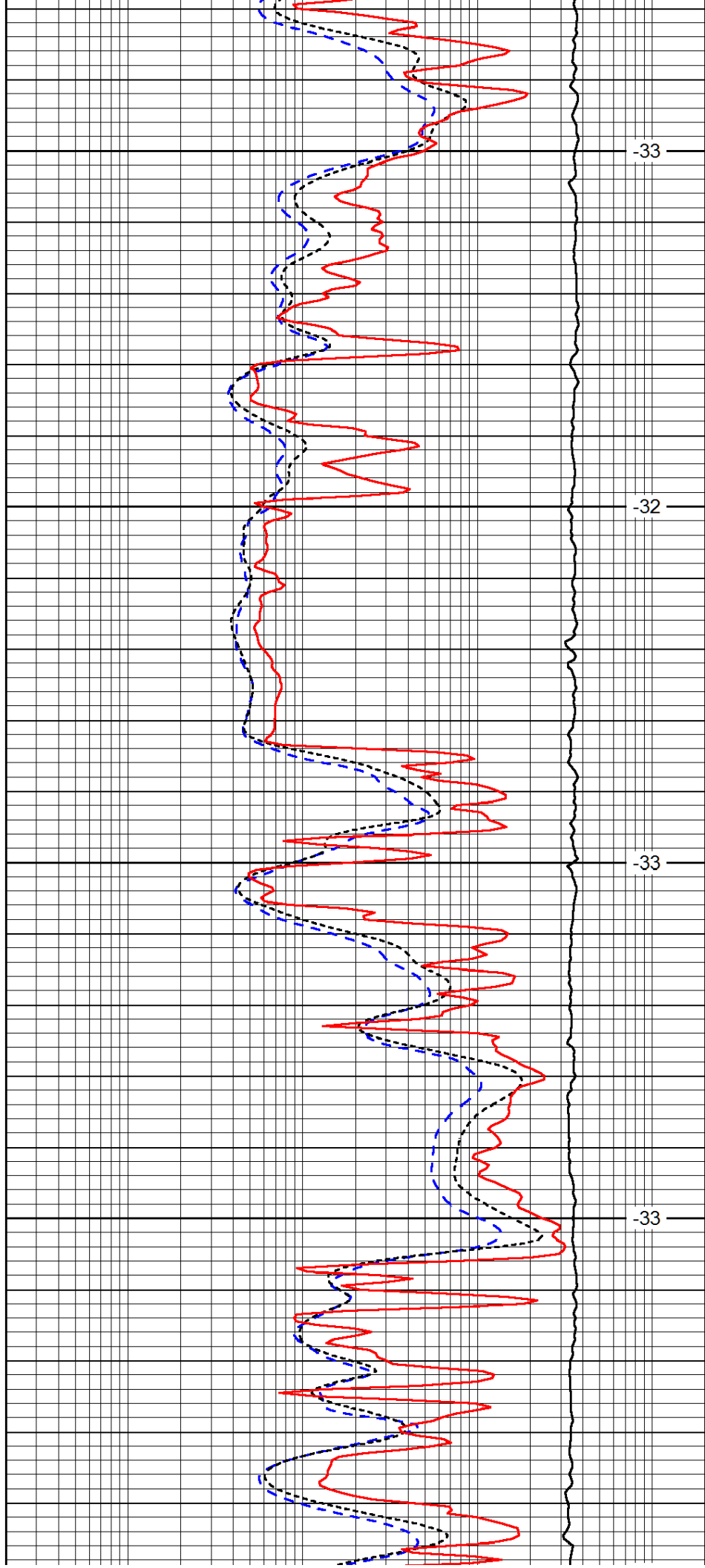


3700

3750

3800

3850

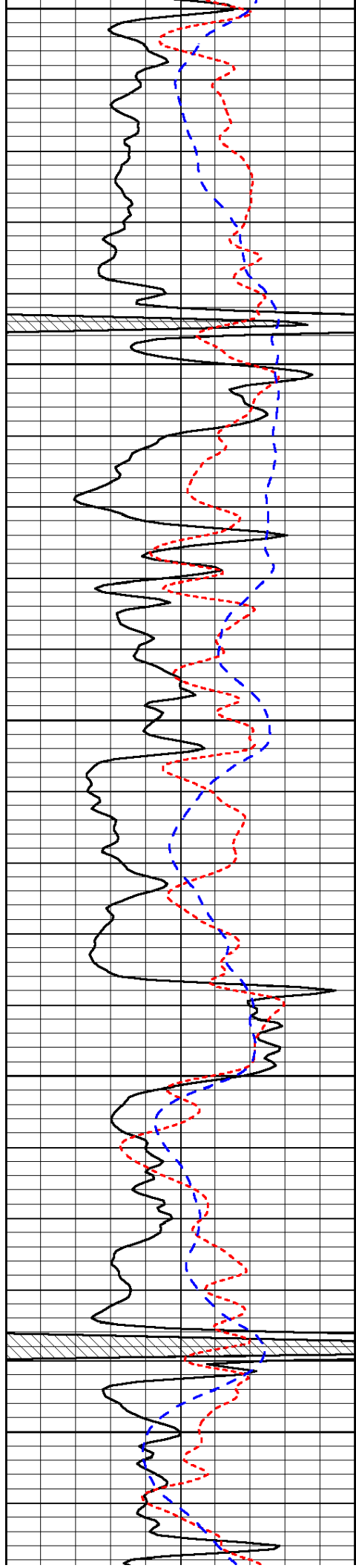


-33

-32

-33

-33



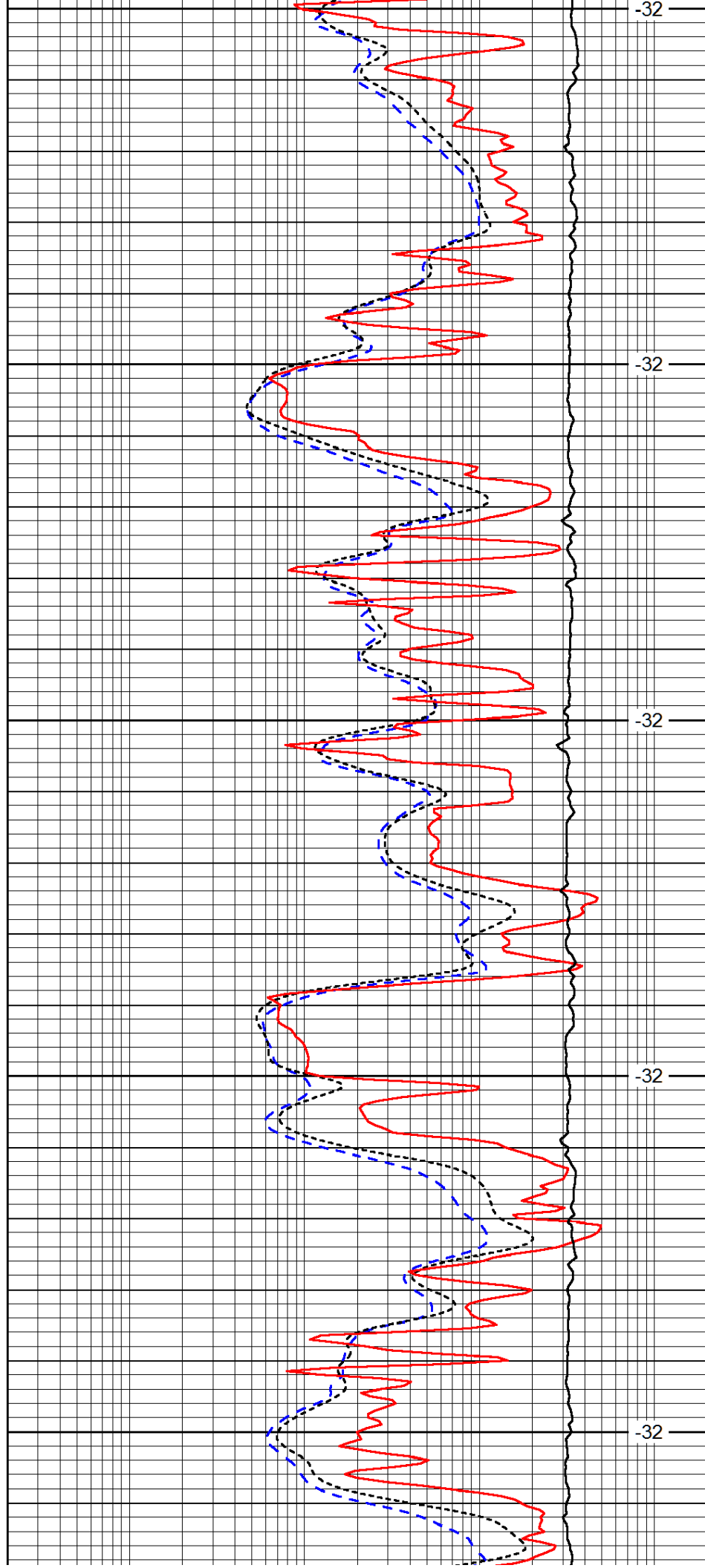
3900

3950

4000

4050

4100



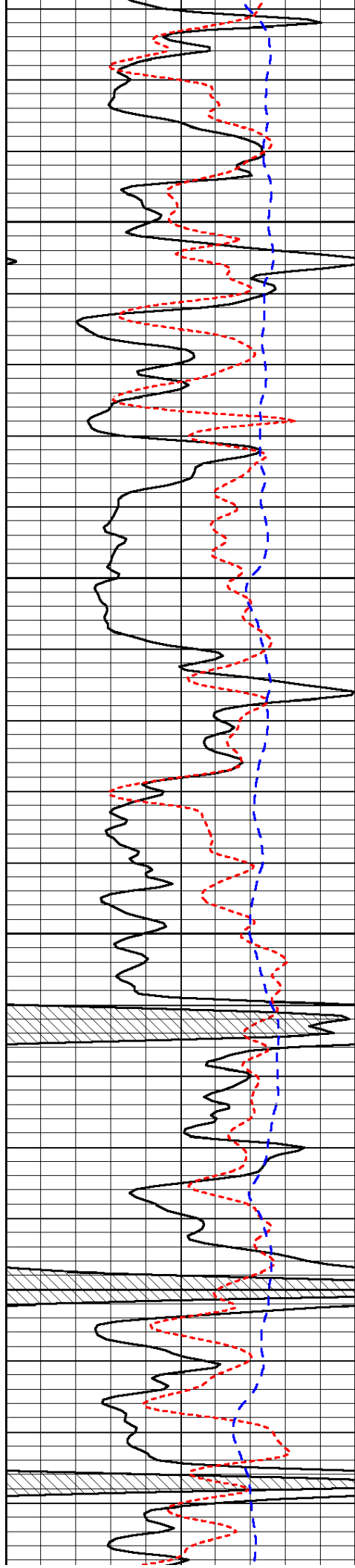
-32

-32

-32

-32

-32

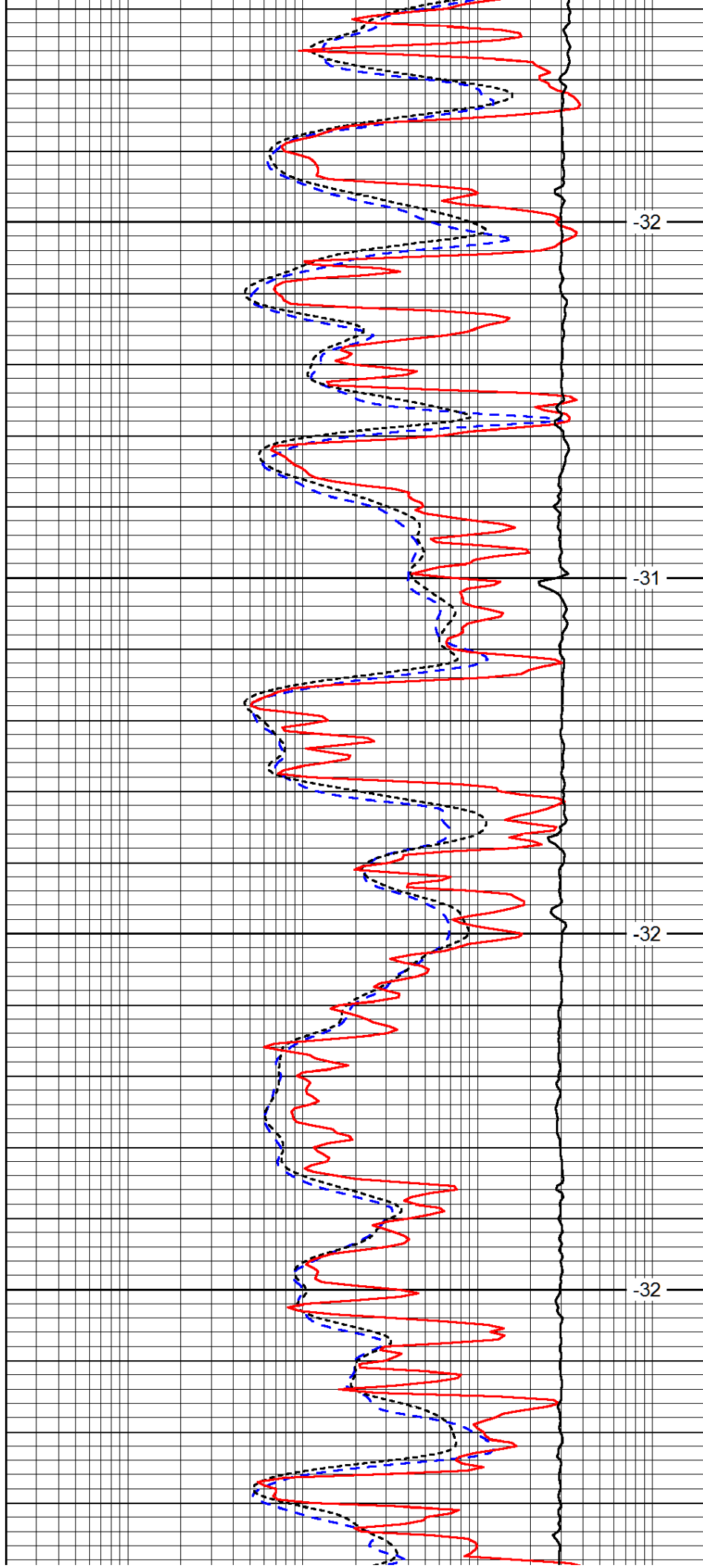


4150

4200

4250

4300

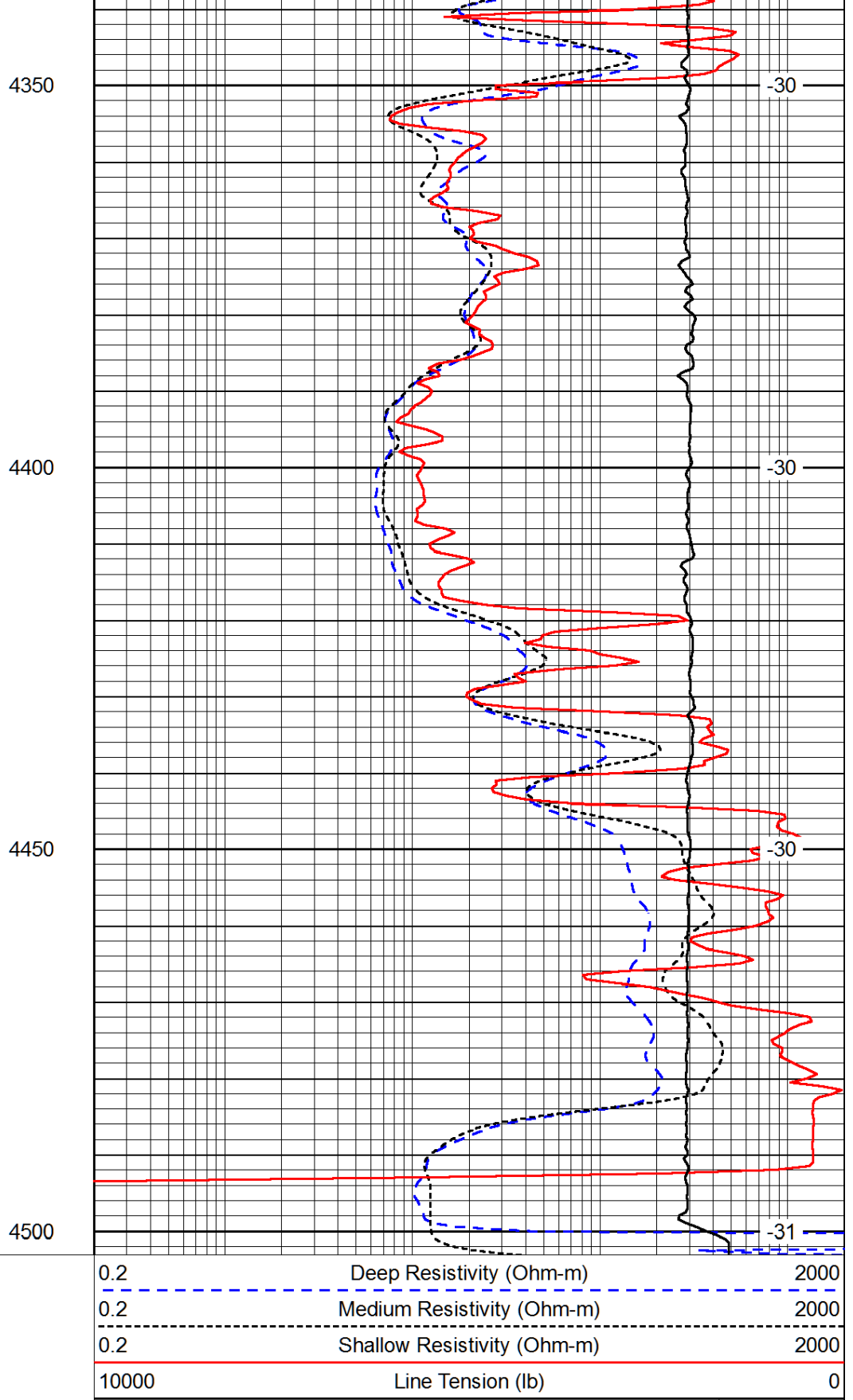
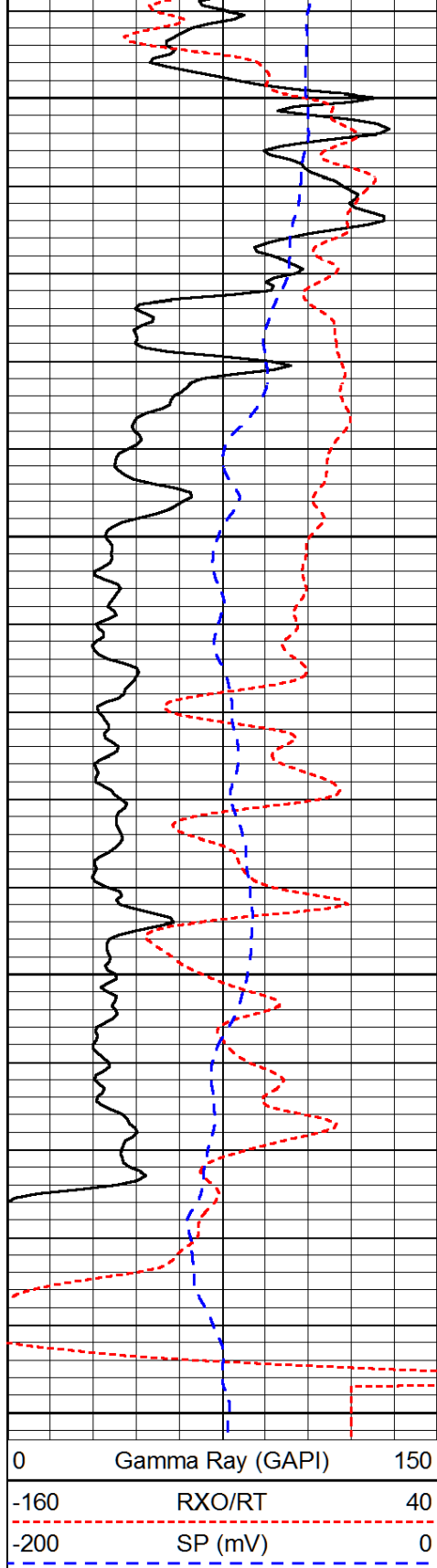


-32

-31

-32

-32



LSPD
(ft/min)