



Pioneer Energy Services

Dual Induction Log

API No.

15-159-22752-00-00

Company Bird Dog Oil, LLC

Well Pioneer - Adams #2-27

Field Chase - Silica

County Rice State

Kansas

Location 1755' FNL & 2310' FEL

Sec: 27 Twp: 19S Rge: 10W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 1750

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing Elevation
K.B. 1758
D.F. 1750
G.L. 1750

Date 9/23/2013

Run Number One

Depth Driller 3380

Depth Logger 3376

Bottom Logged Interval 3375

Top Log Interval 300

Casing Driller 8.625 @ 303

Casing Logger 300

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 11500

Density / Viscosity 8.8 56

pH / Fluid Loss 10.0 9.2

Source of Sample Flowline

Rm @ Meas. Temp 0.34 @ 70

Rmf @ Meas. Temp 0.26 @ 70

Rmc @ Meas. Temp 0.46 @ 70

Source of Rmf / Rmc Charts

Rm @ BHT 0.21 @ 112

Operating Rig Time 5 Hours

Max Rec. Temp. F 112

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Adam Nighswonger

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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

Chase,
4 West to 4 Rd, 2 North to K Rd, 1/2 East,
South into

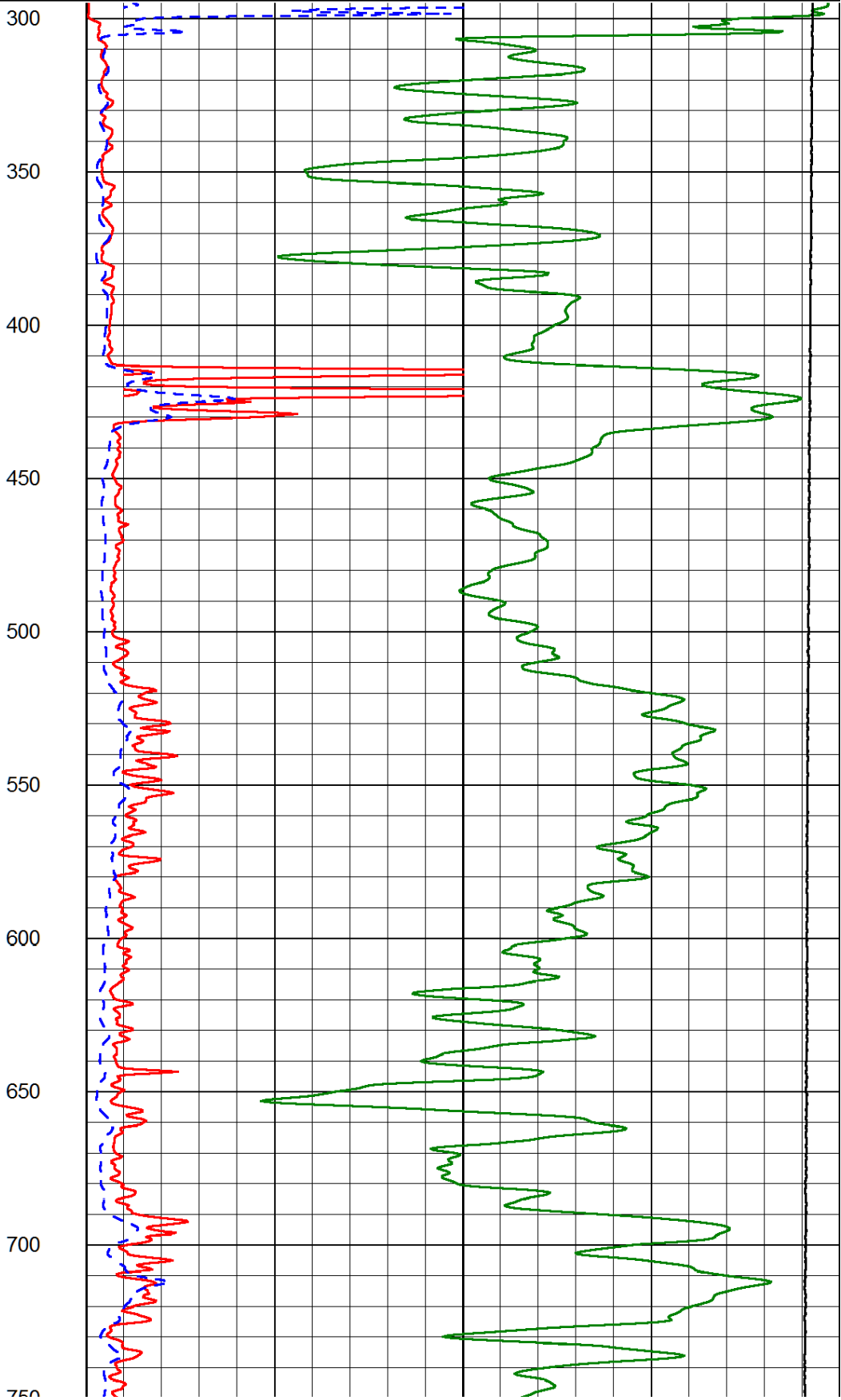
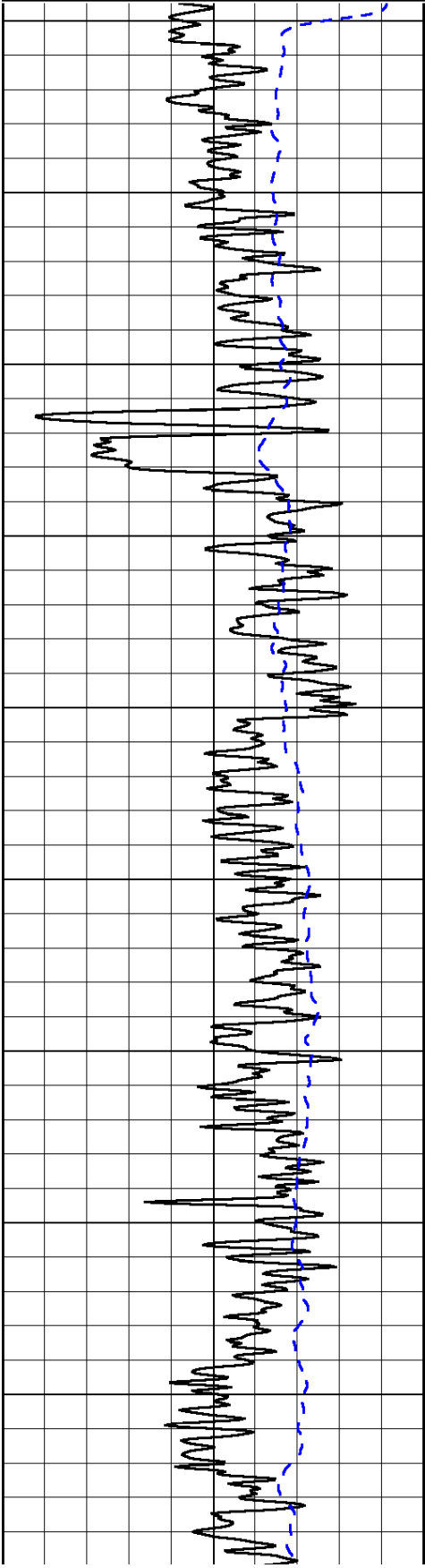
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Presentation Format: dil2in
Dataset Creation: Mon Sep 23 21:44:53 2013
Charted by: Depth in Feet scaled 1:600

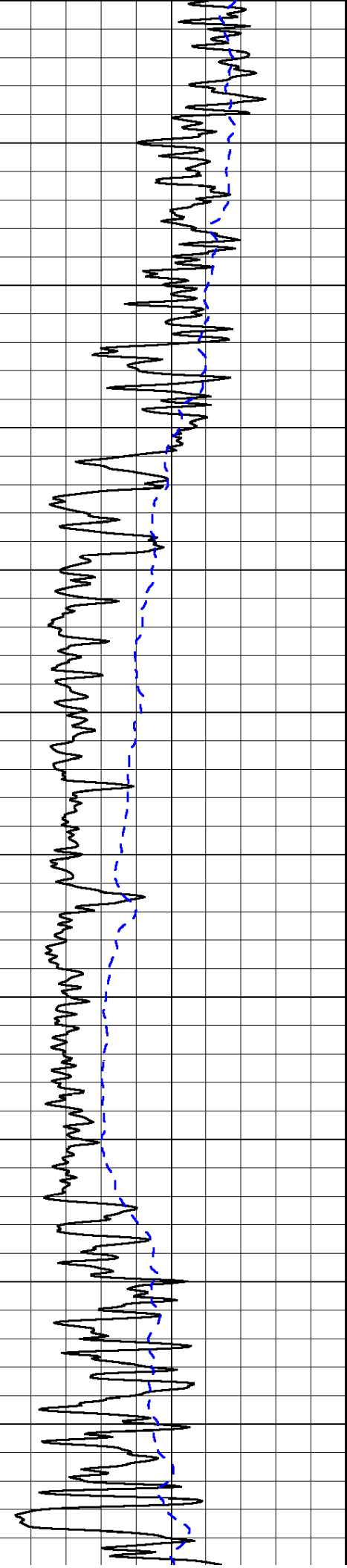
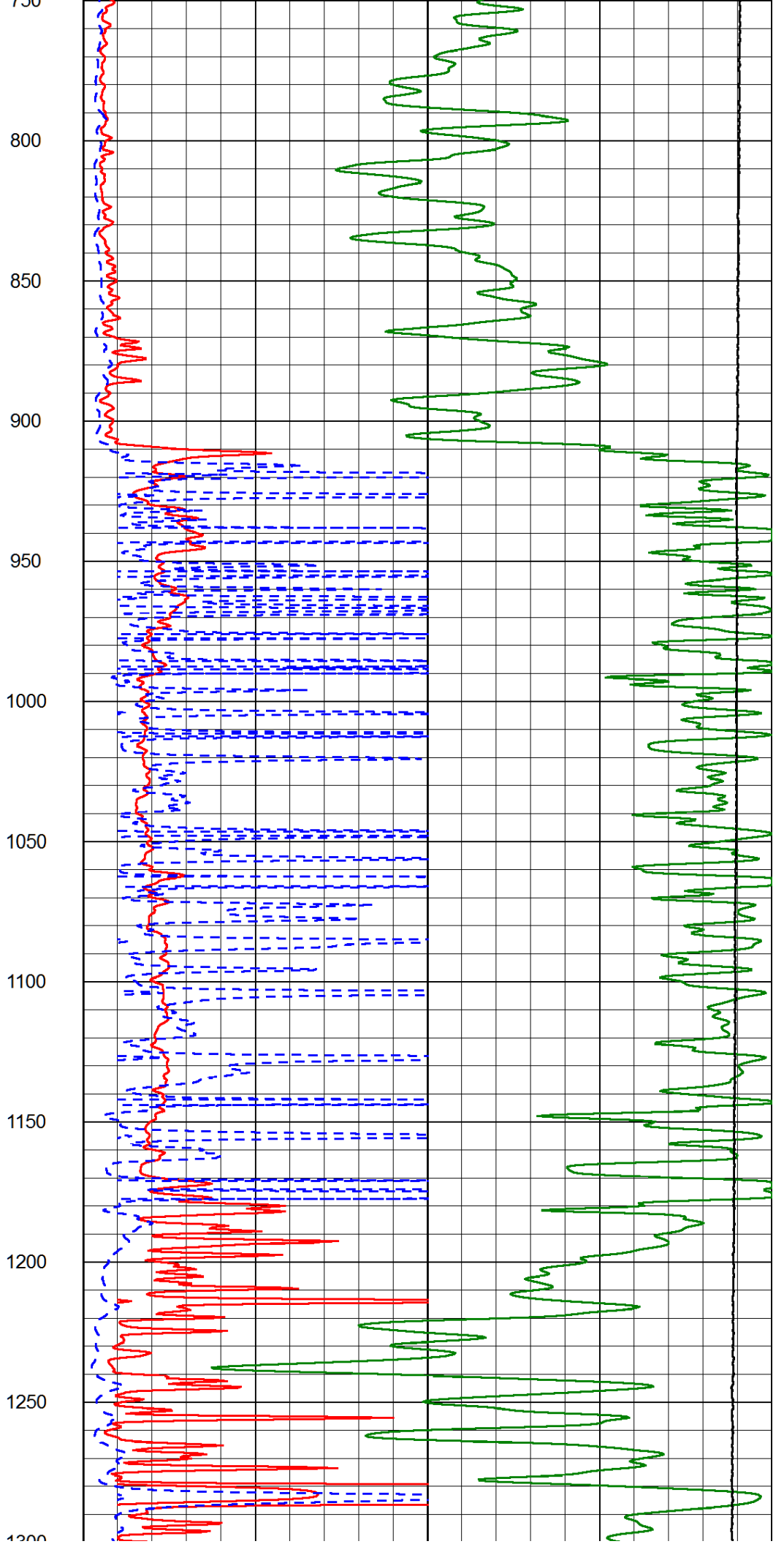
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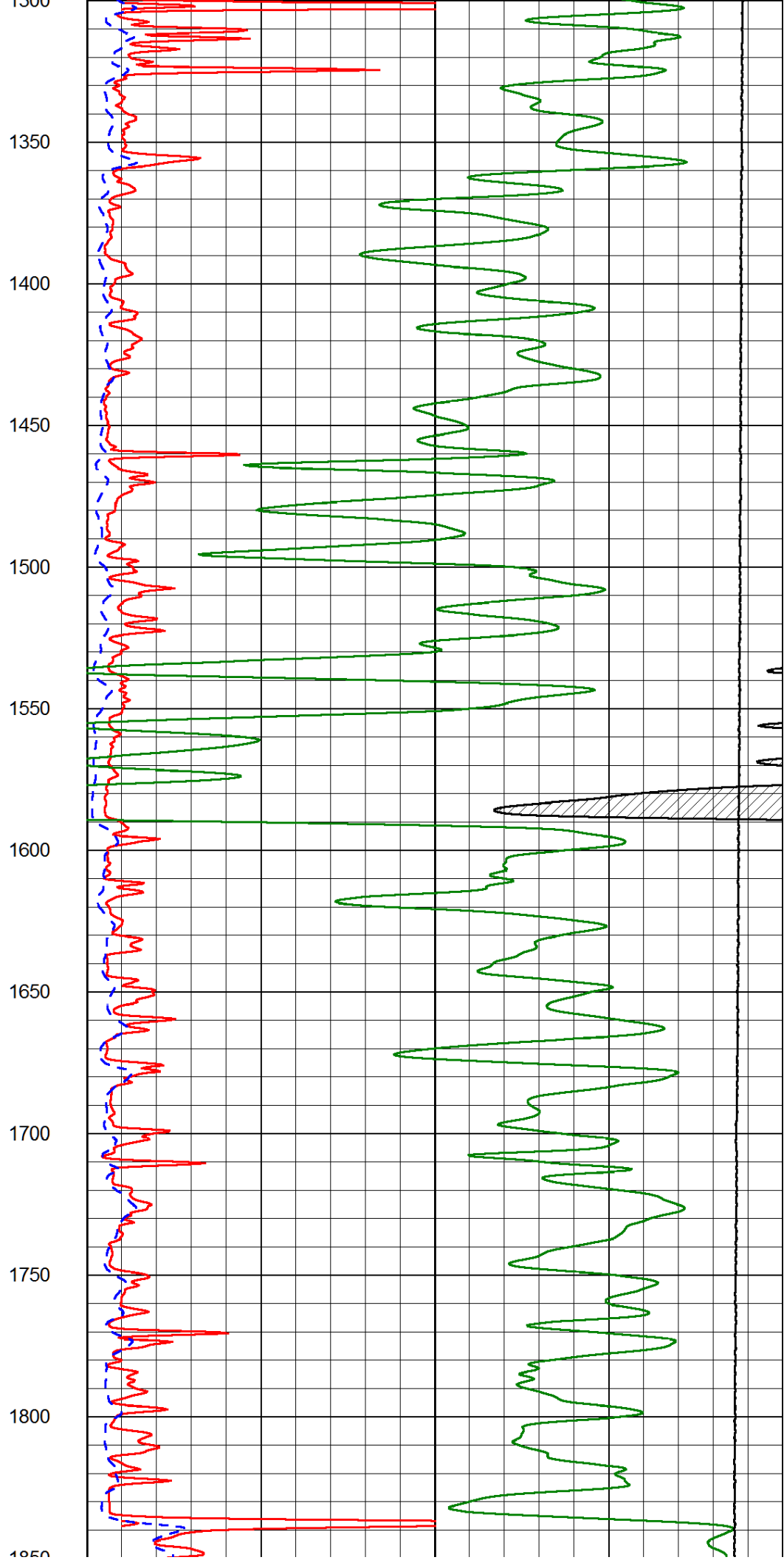
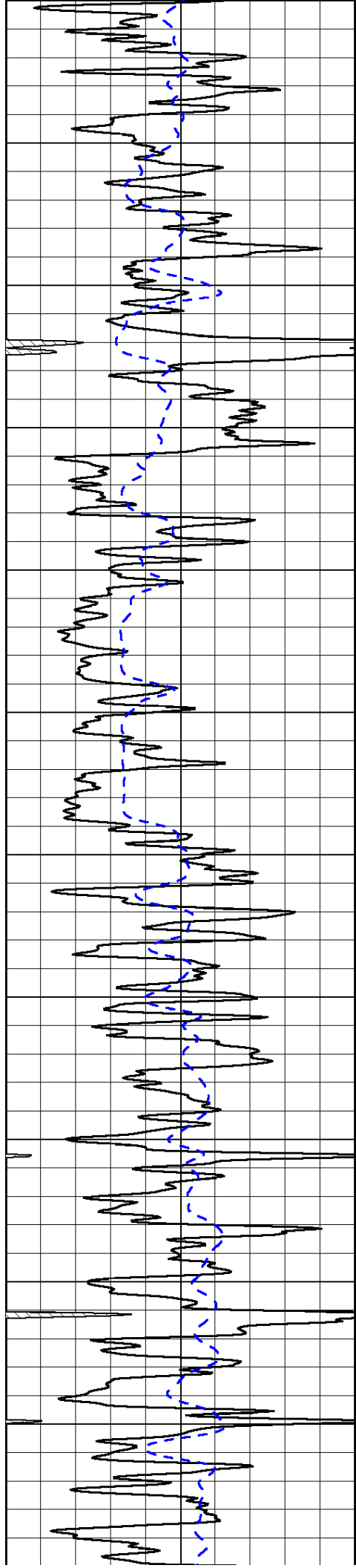
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

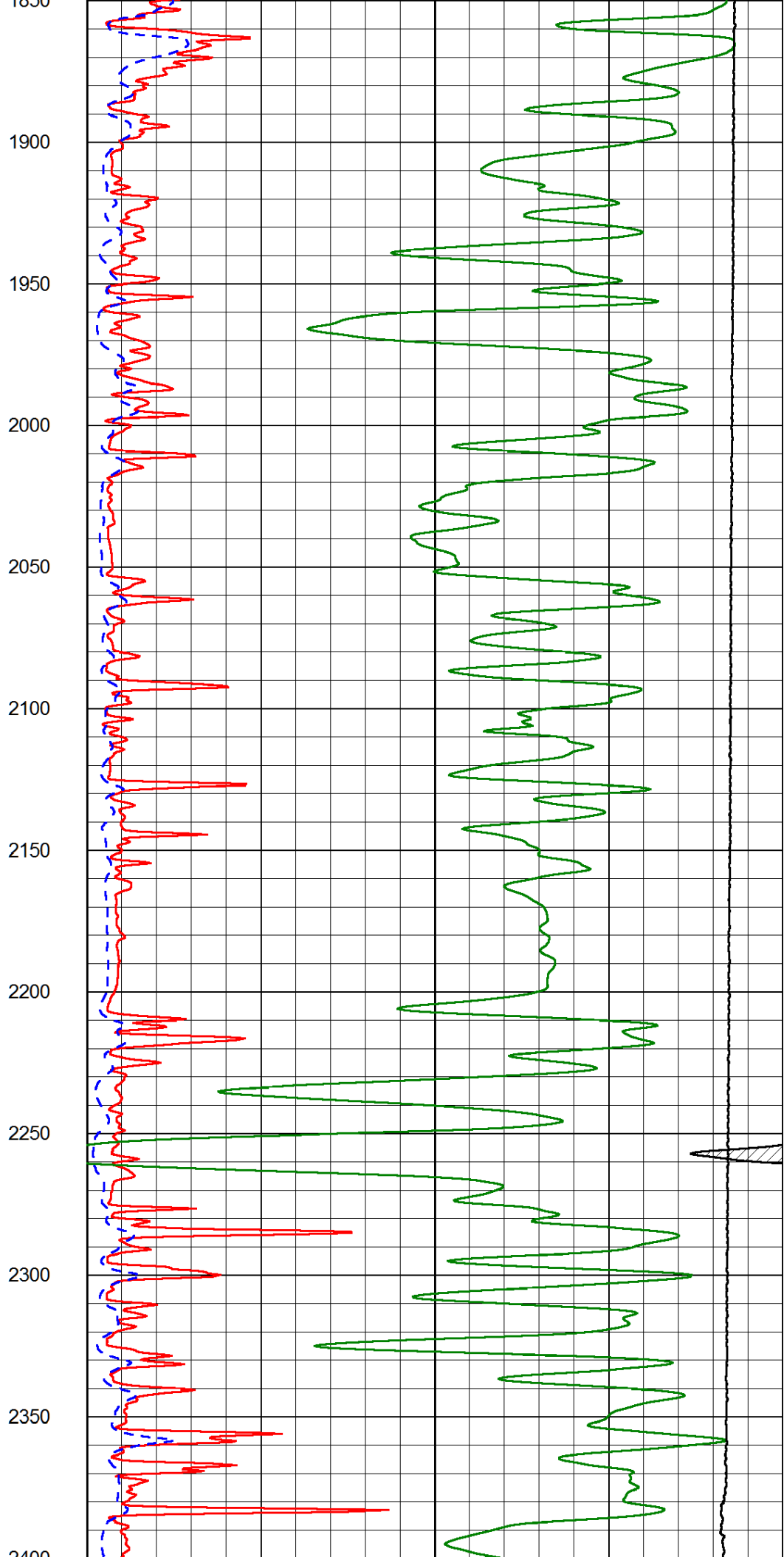
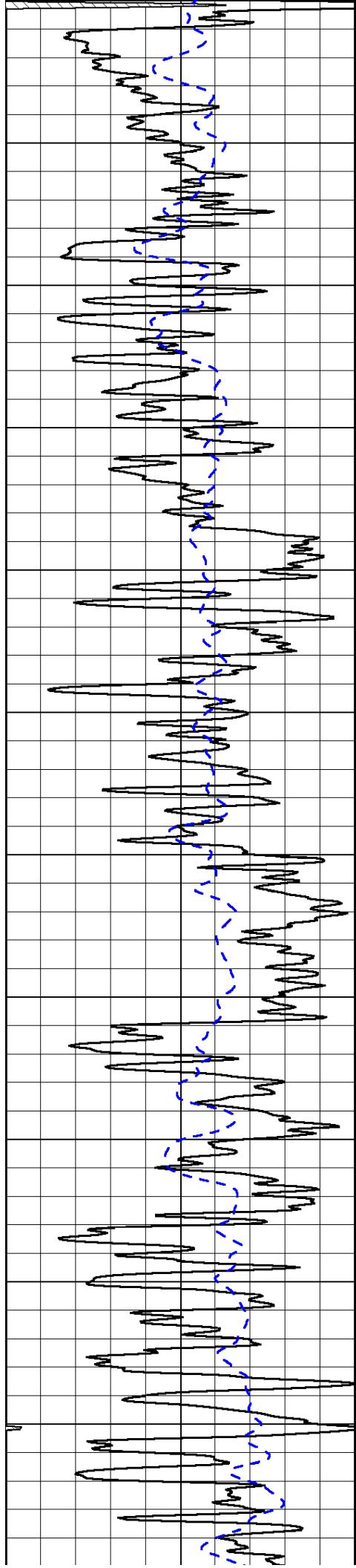
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

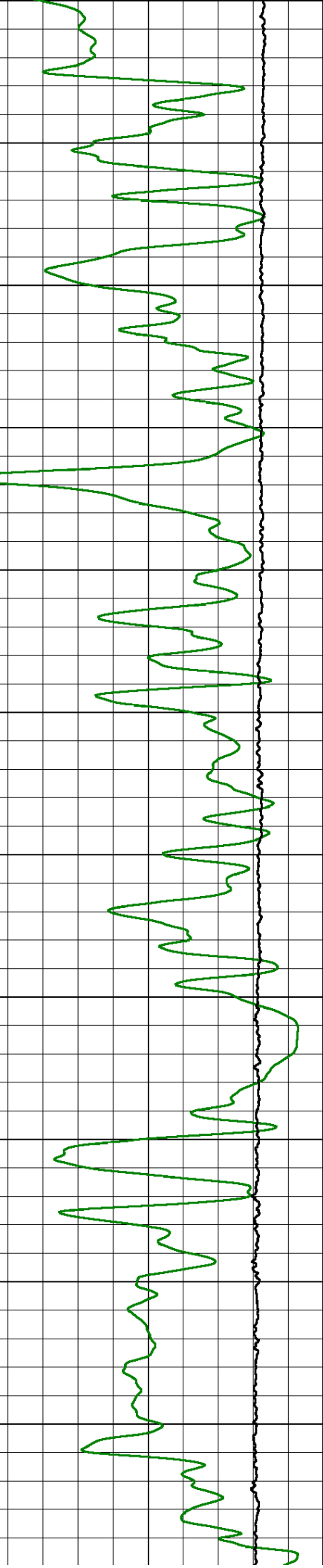
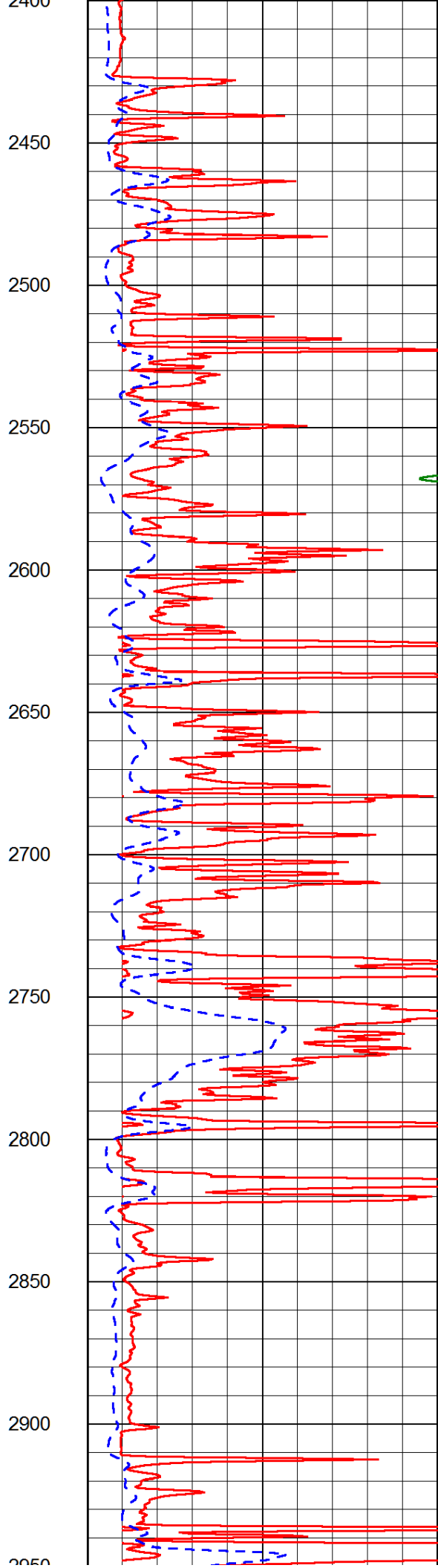
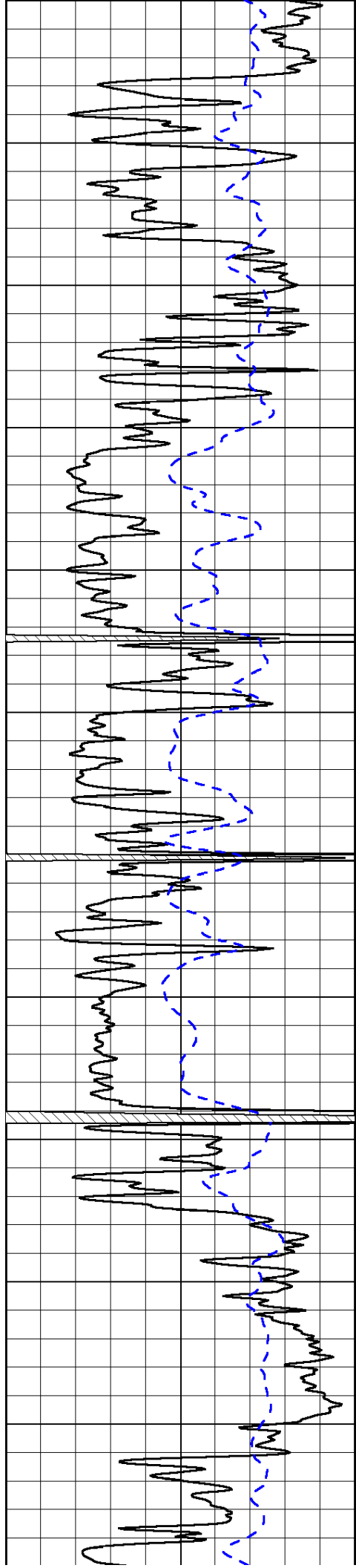
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

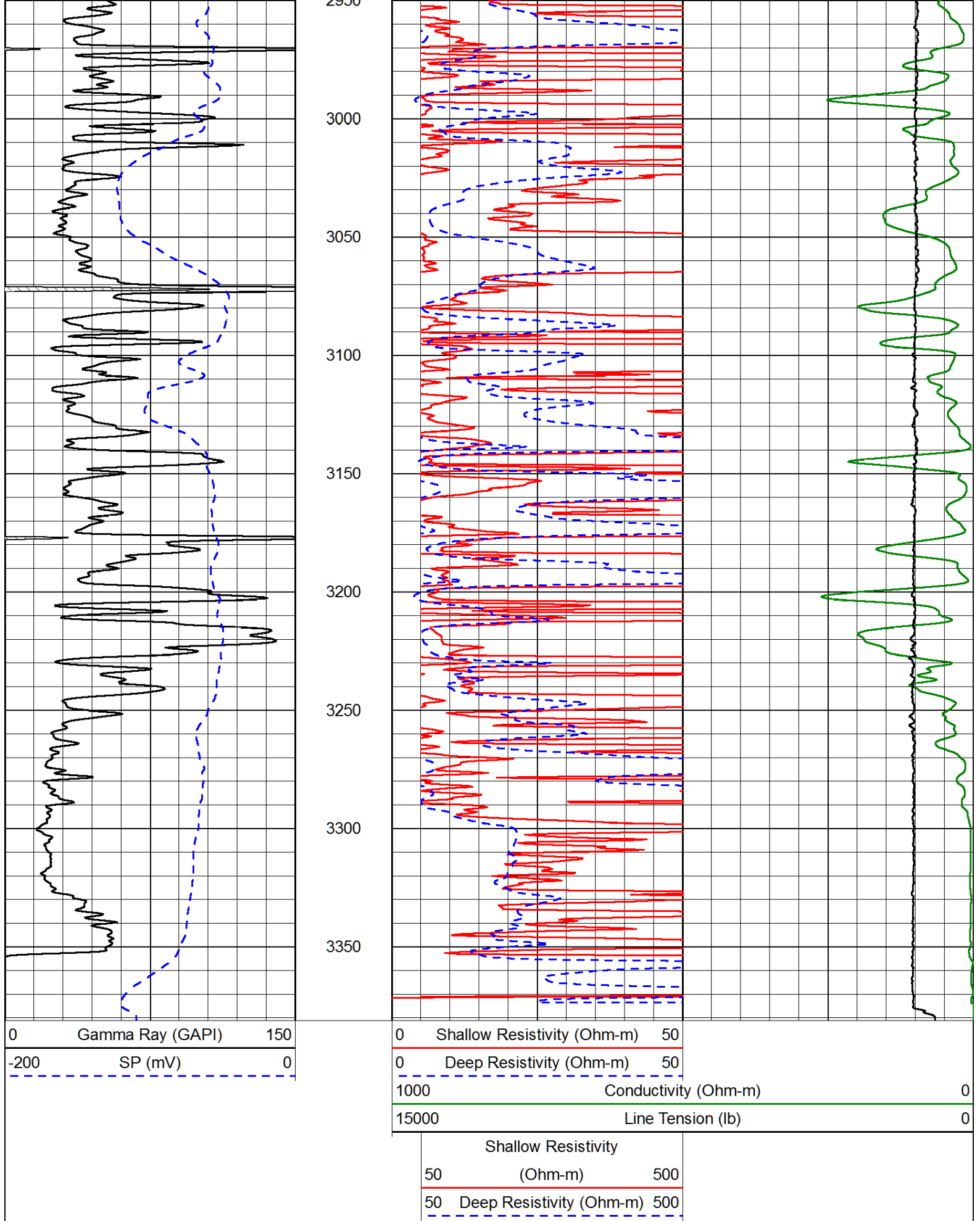








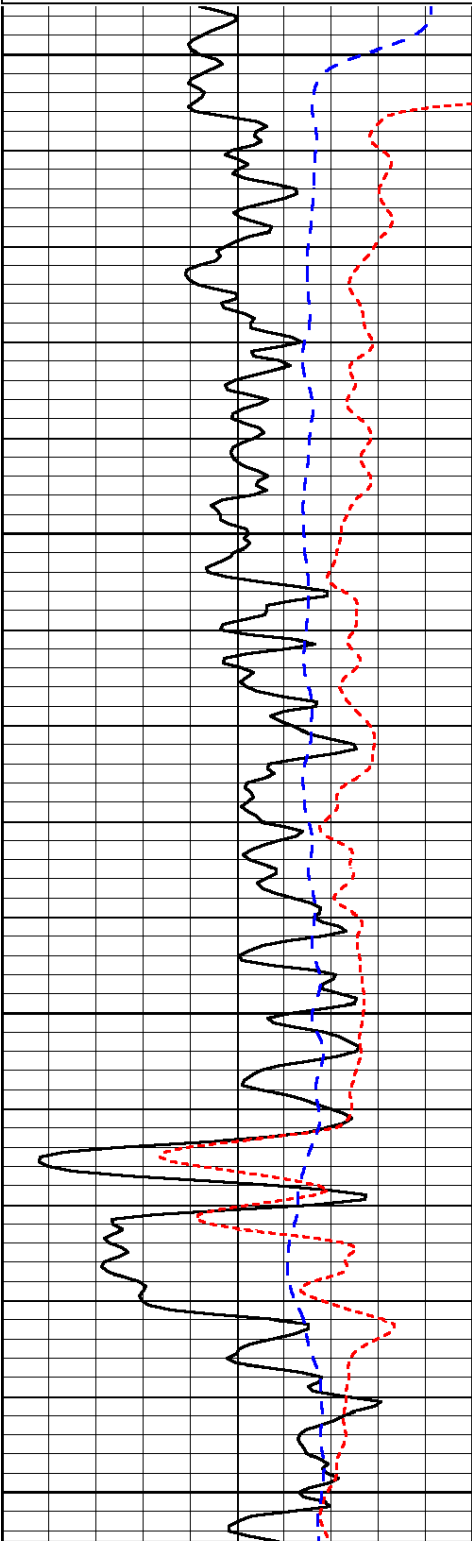




0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

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)

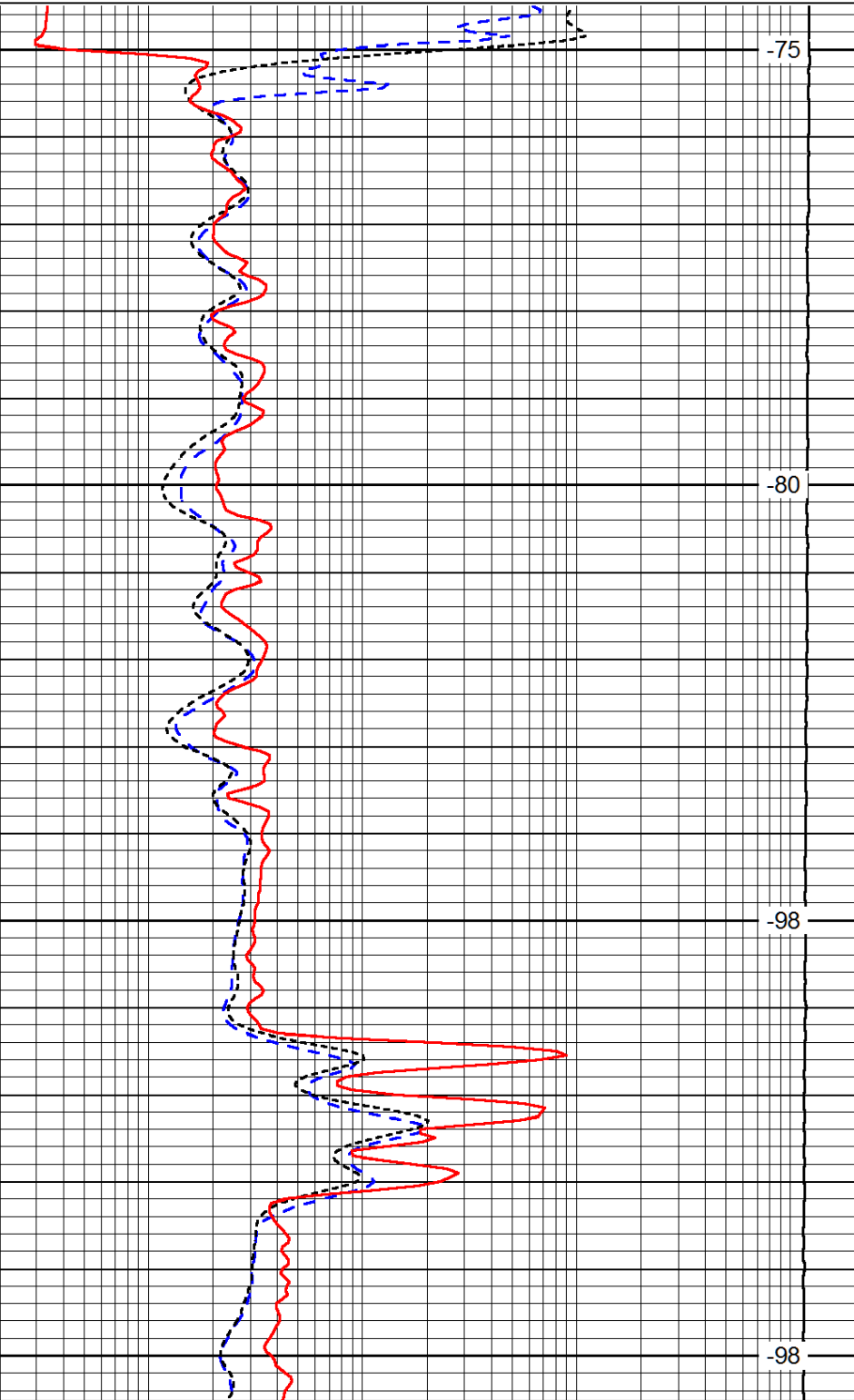


300

350

400

450



-75

-80

-98

-98

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

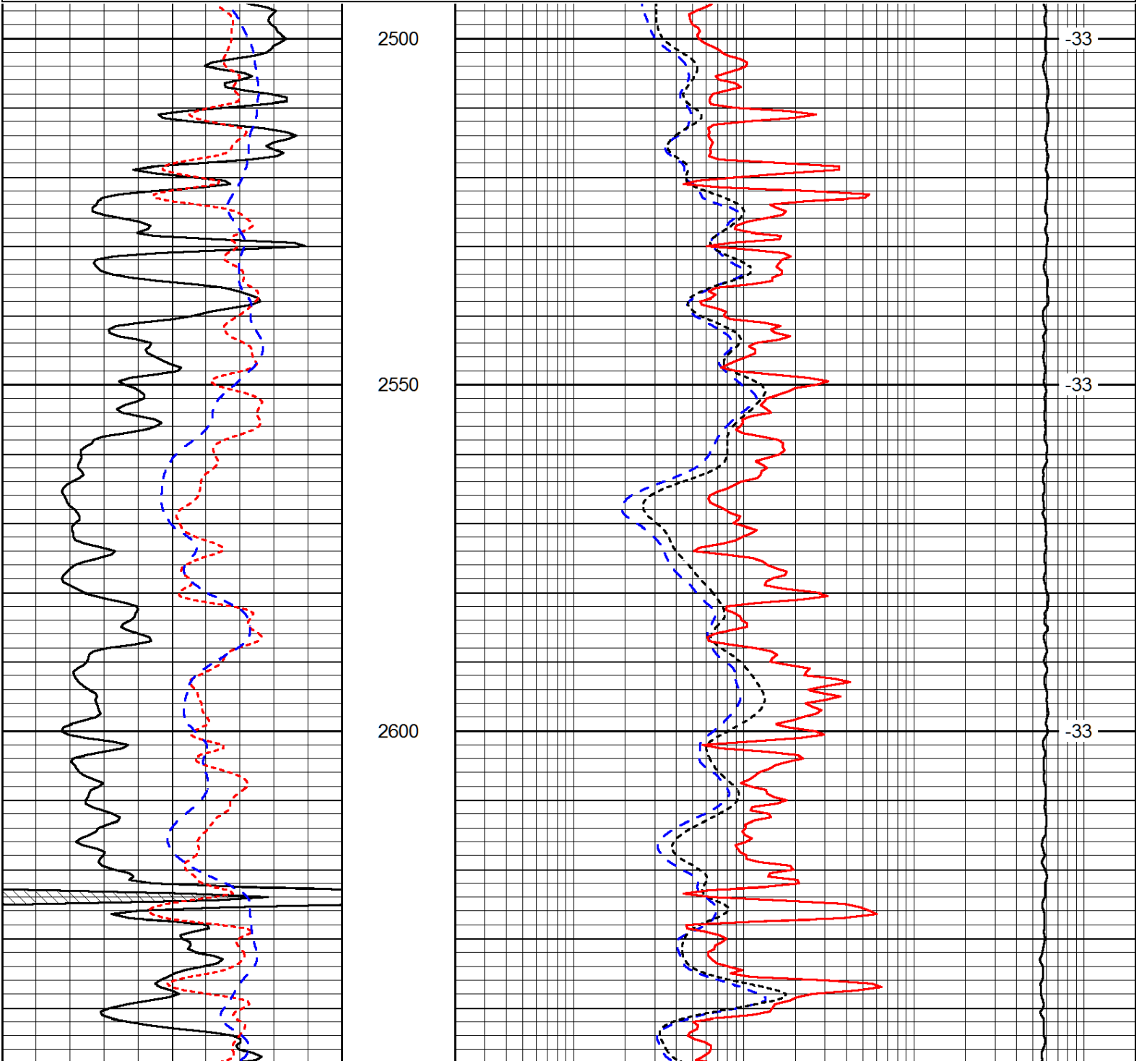
LSPD
(ft/min)

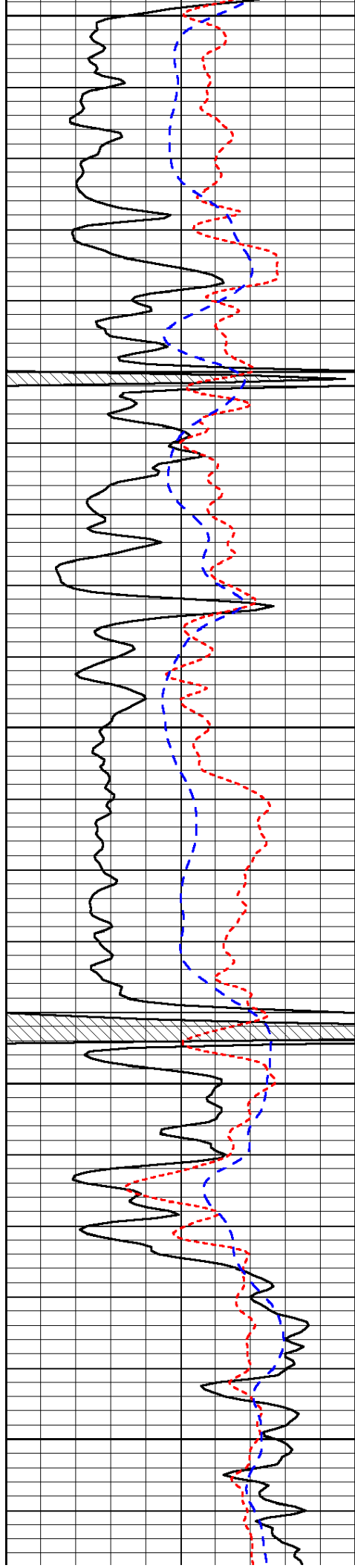
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Charted by: Depth in Feet scaled 1:240

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)





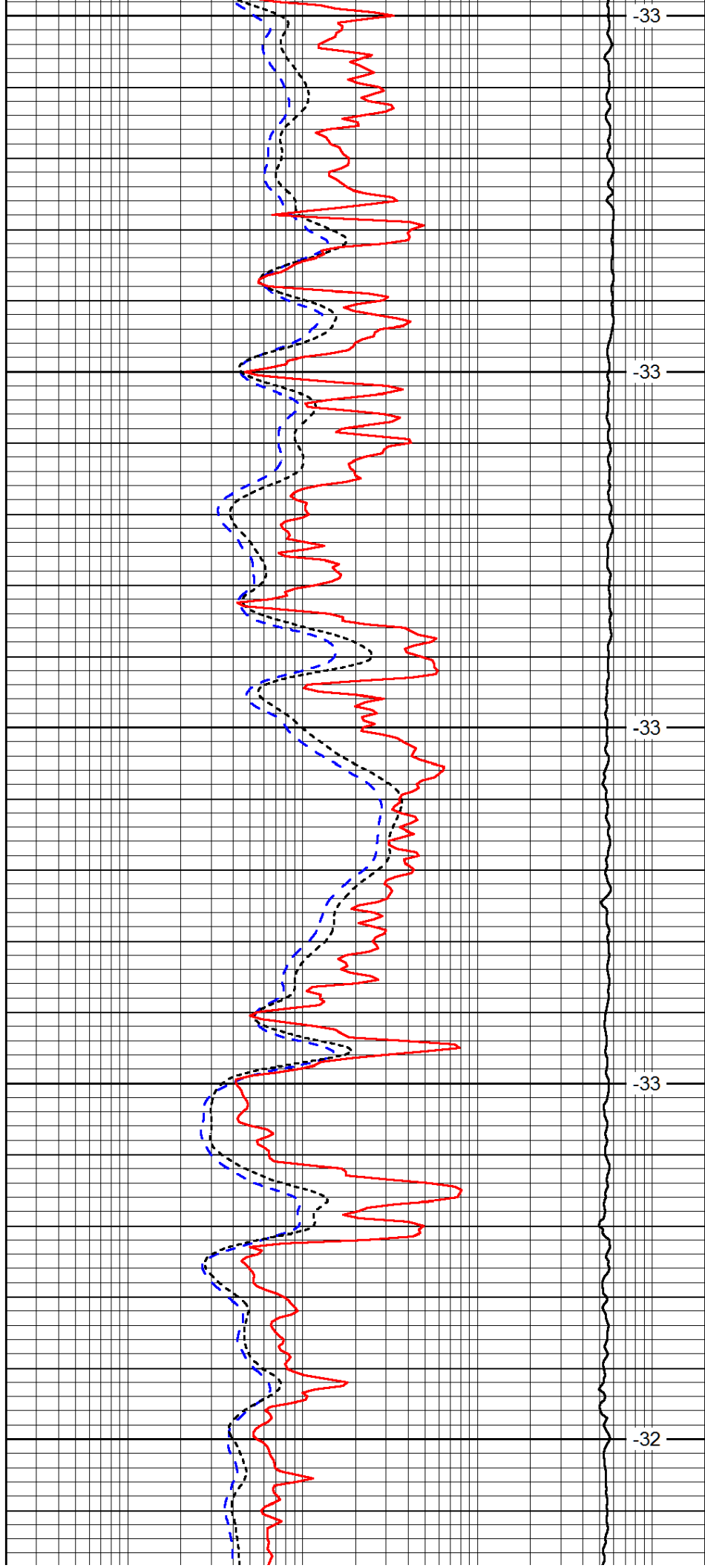
2650

2700

2750

2800

2850



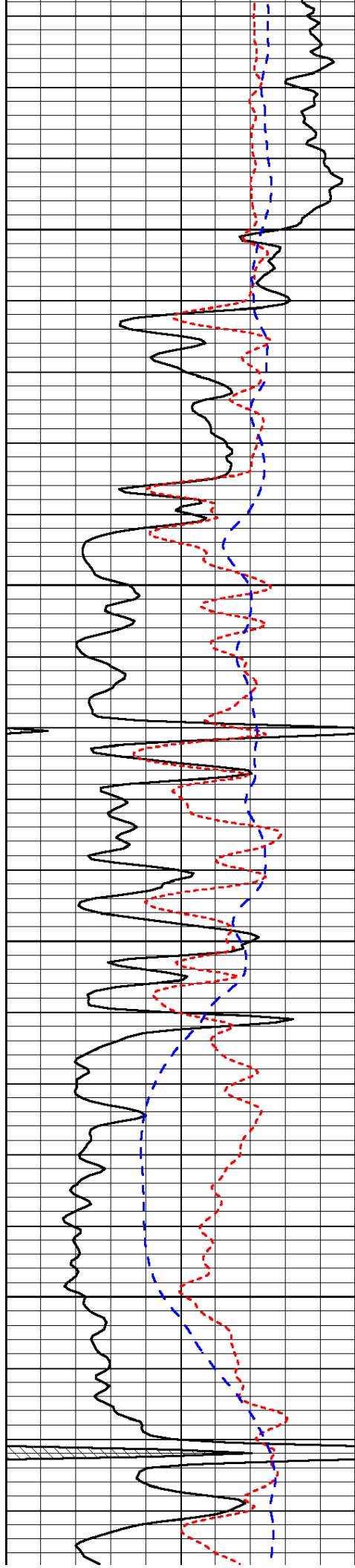
-33

-33

-33

-33

-32

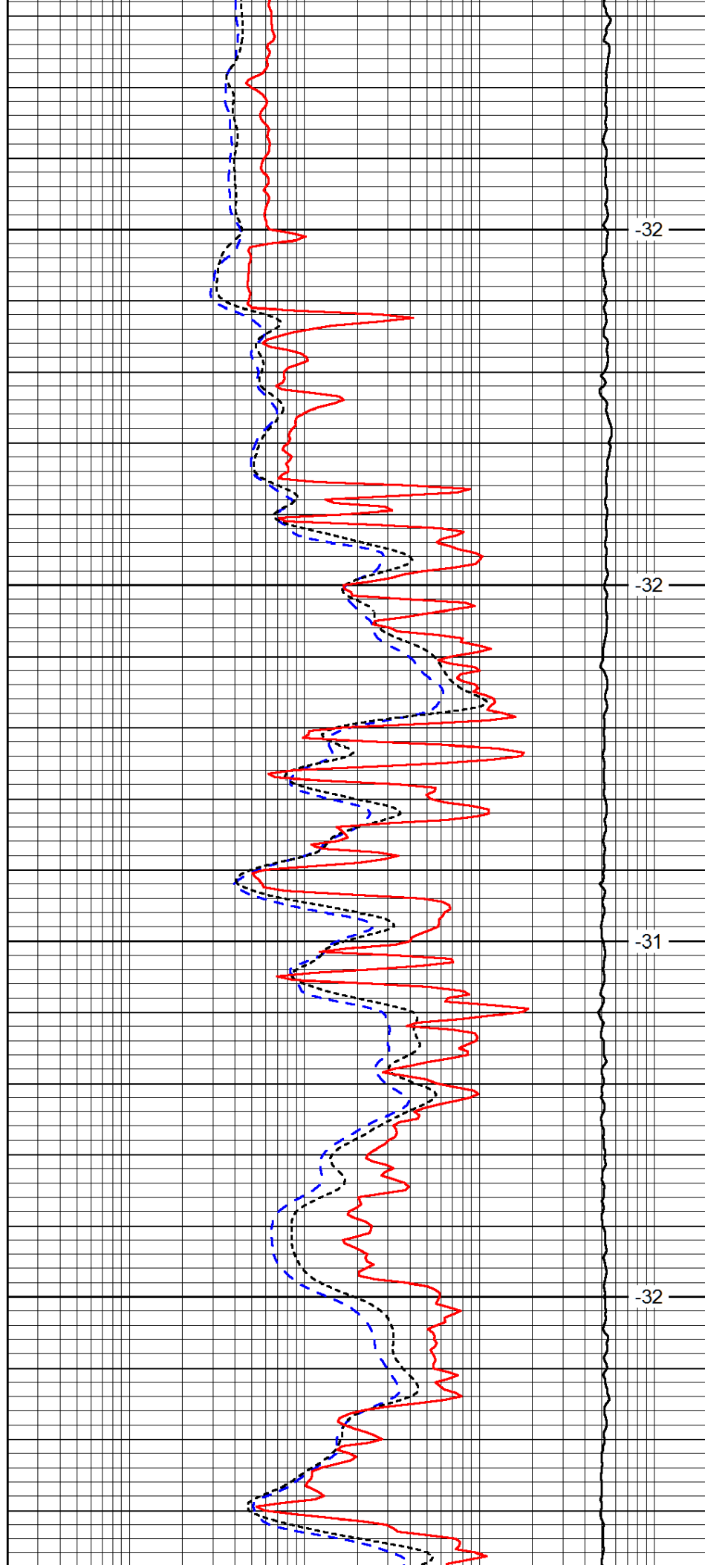


2900

2950

3000

3050

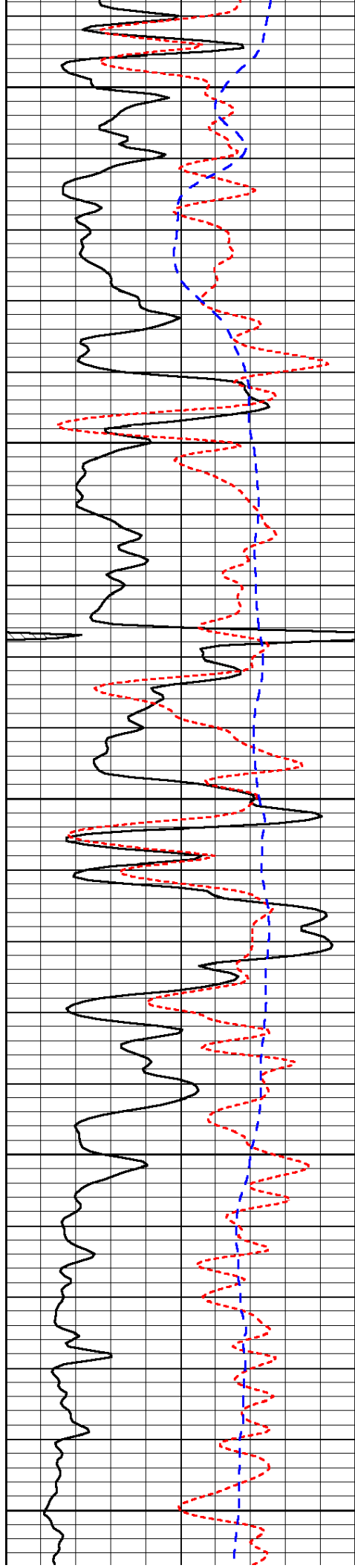


-32

-32

-31

-32



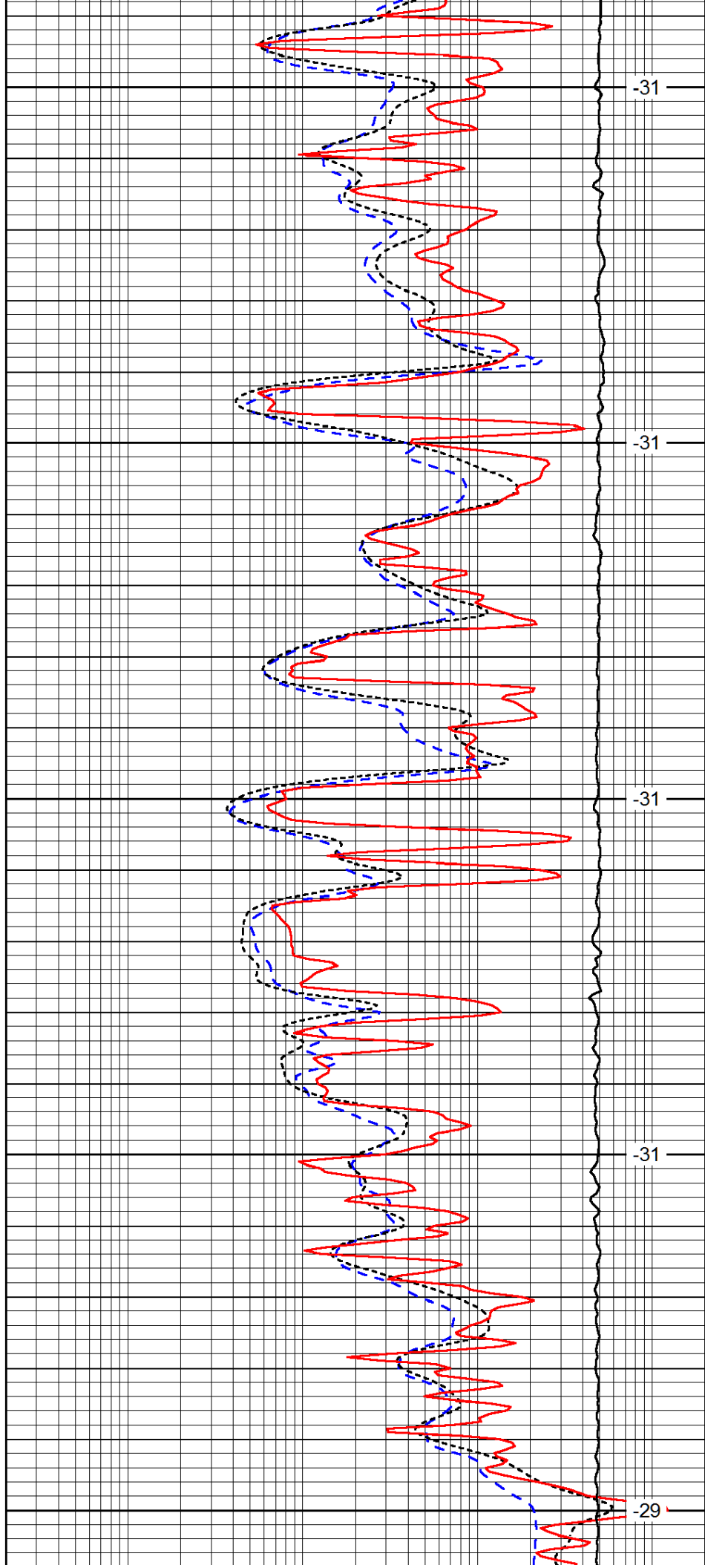
3100

3150

3200

3250

3300



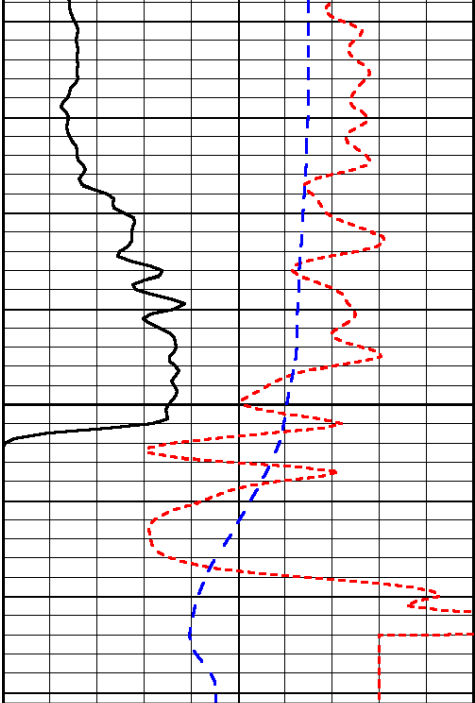
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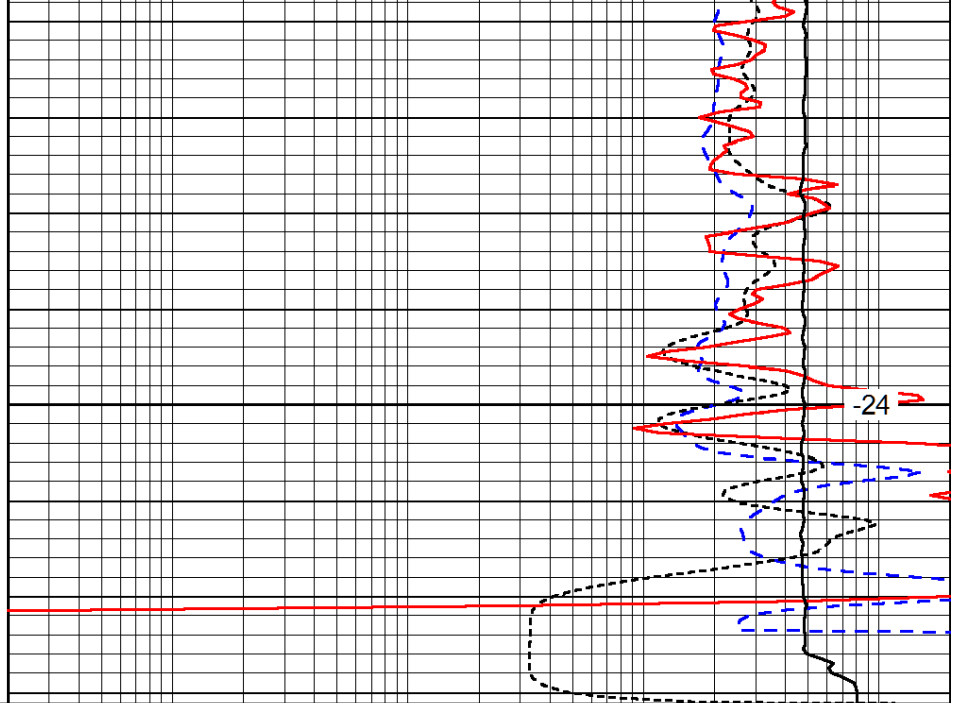
-31

-29



3350

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



-24

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)