



Pioneer Energy Services

Dual Induction Log

API No.

15-051-26635-00-00

Company Prospect Oil & Gas Corp

Well Froelich D #2

Field Emmeram NE

County Ellis State Kansas

Location 330' FSL & 1537' FWL

Sec: 22 Twp: 12S Rge: 16W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2030

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing Elevation
K.B. 2035
D.F. 2030
G.L. 2030

Date 11/20/2013

Run Number One

Depth Driller 3508

Depth Logger 3509

Bottom Logged Interval 3508

Top Log Interval 200

Casing Driller 8.625 @ 218

Casing Logger 219

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3900

Density / Viscosity 9.2 49

pH / Fluid Loss 10.0 6.0

Source of Sample Flowline

Rm @ Meas. Temp 0.42 @ 60

Rmf @ Meas. Temp 0.37 @ 60

Rmc @ Meas. Temp 0.57 @ 60

Source of Rmf / Rmc Charts

Rm @ BHT 0.22 @ 113

Operating Rig Time 3 1/2 Hours

Max Rec. Temp. F 113

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Brad Hutchison

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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

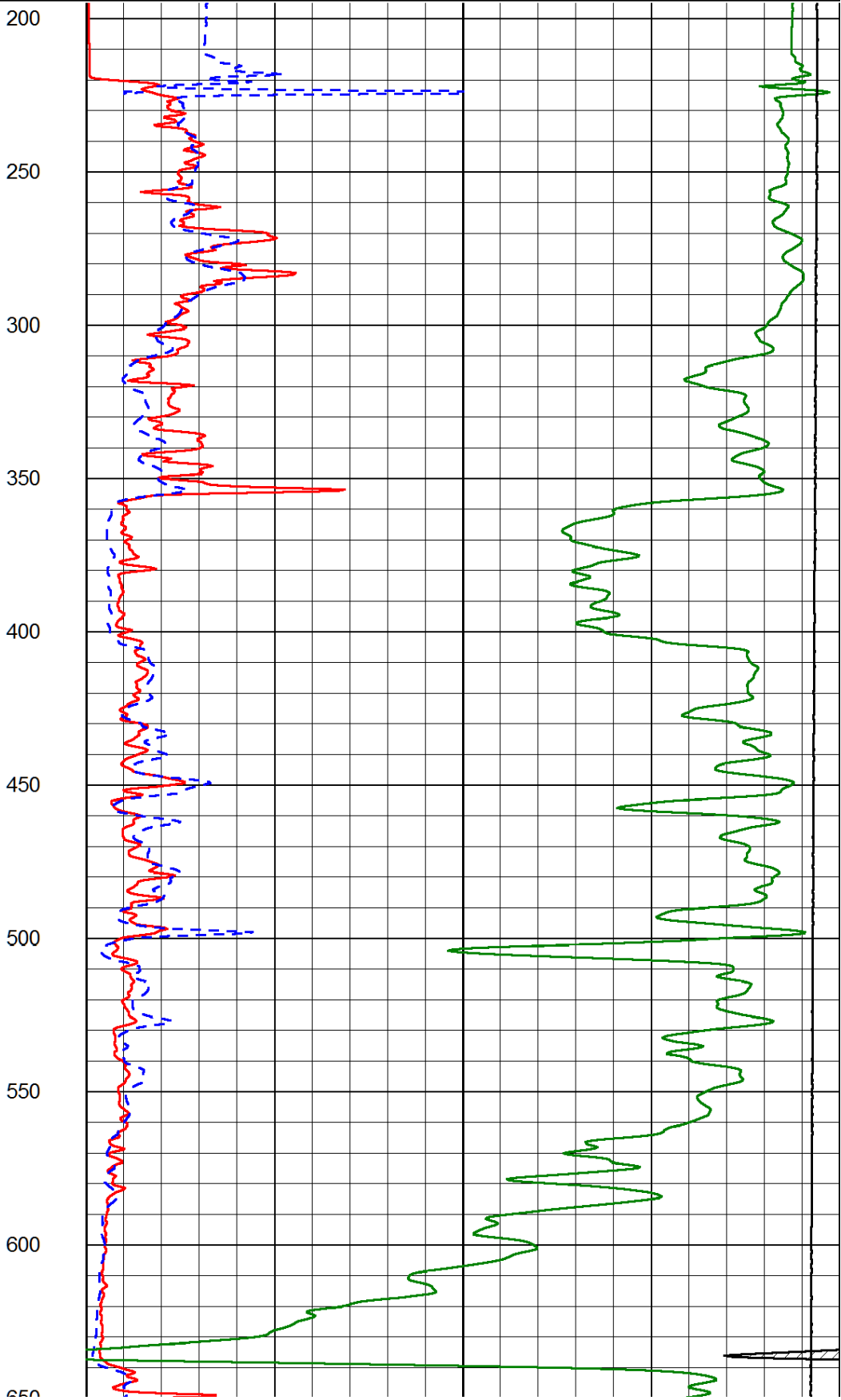
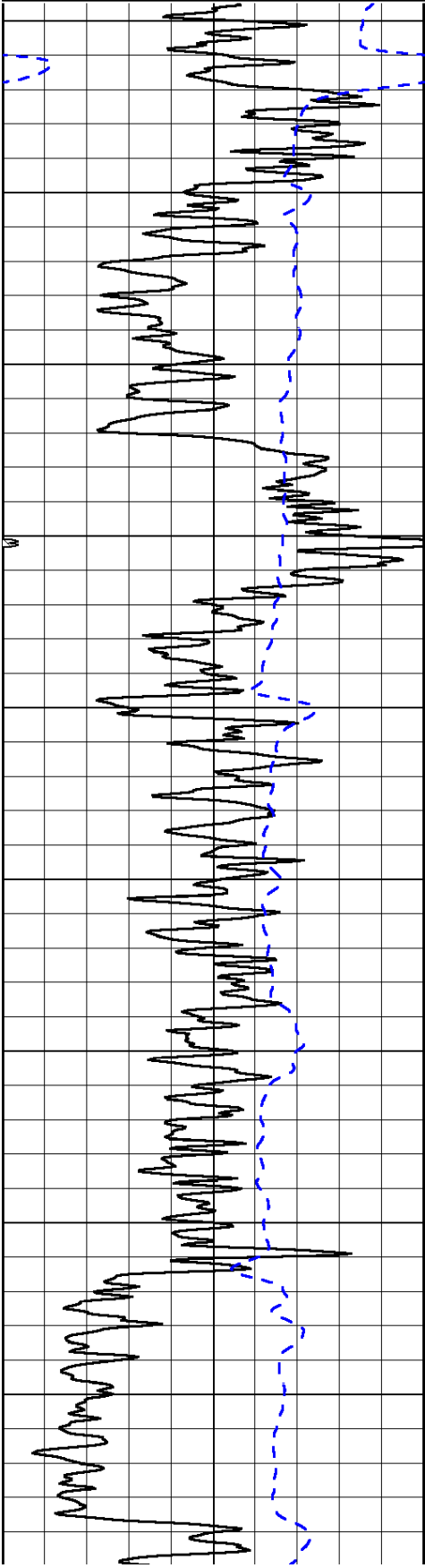
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(785) 625-3858

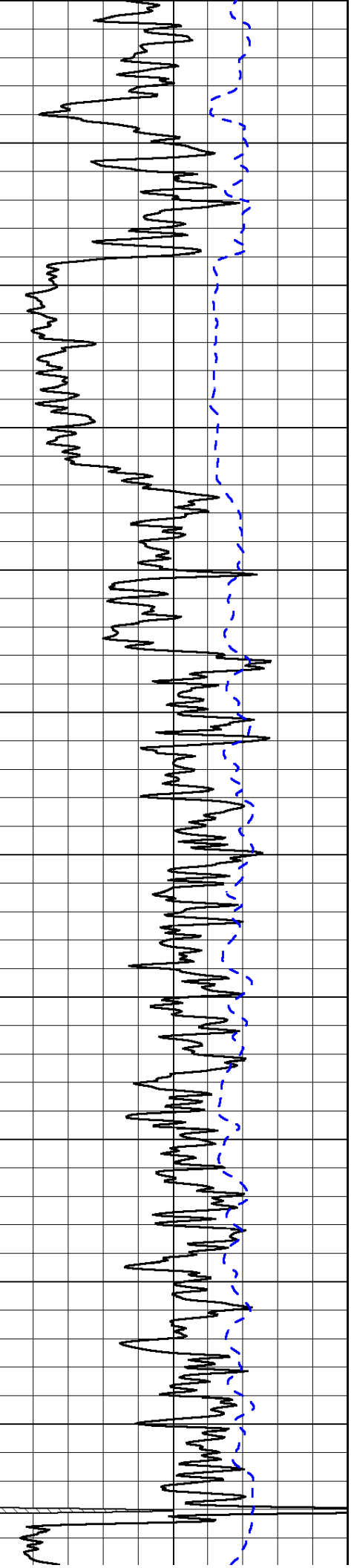
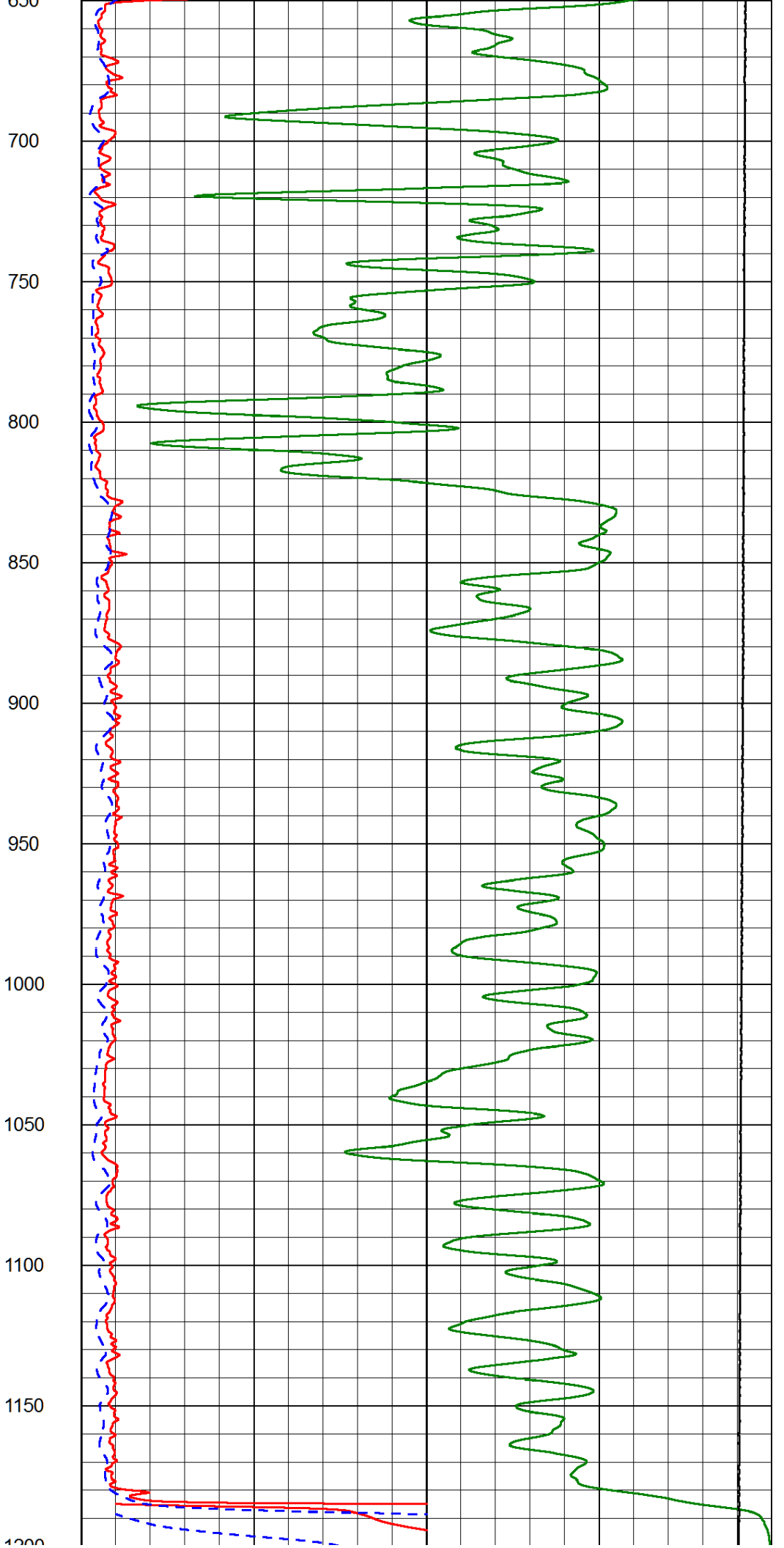
Walker,
North to the T, 1 West to 370th, 2 North,
East into

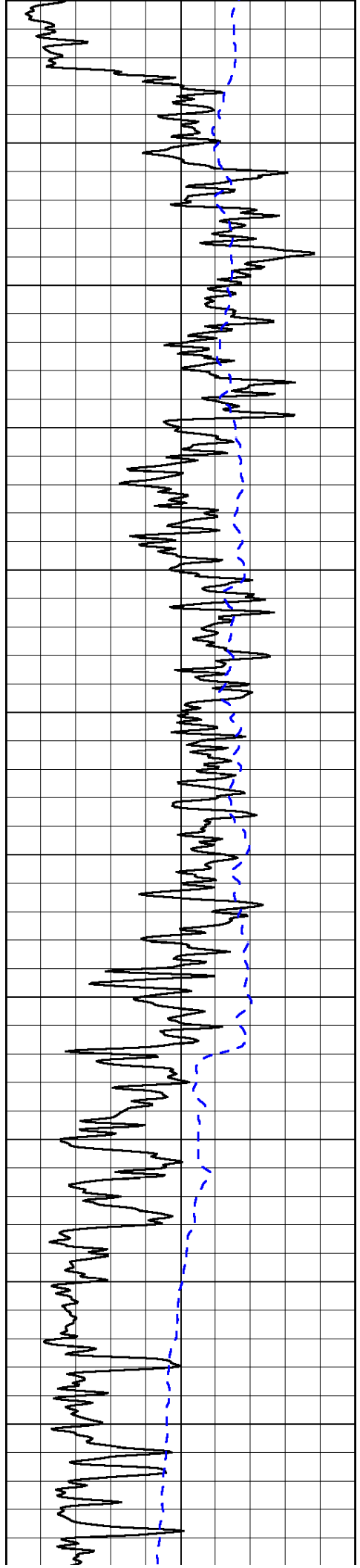
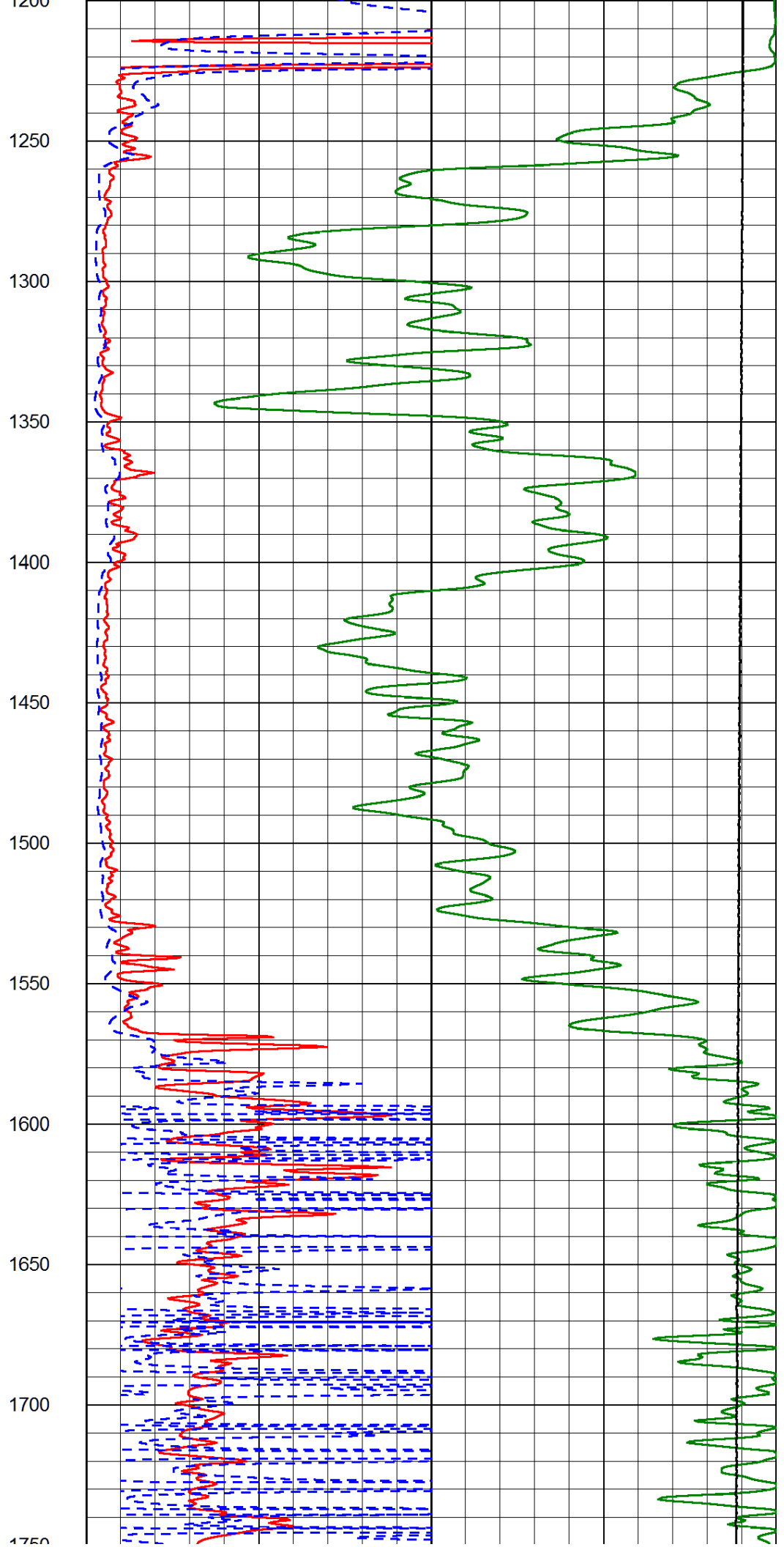
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Charted by: Depth in Feet scaled 1:600

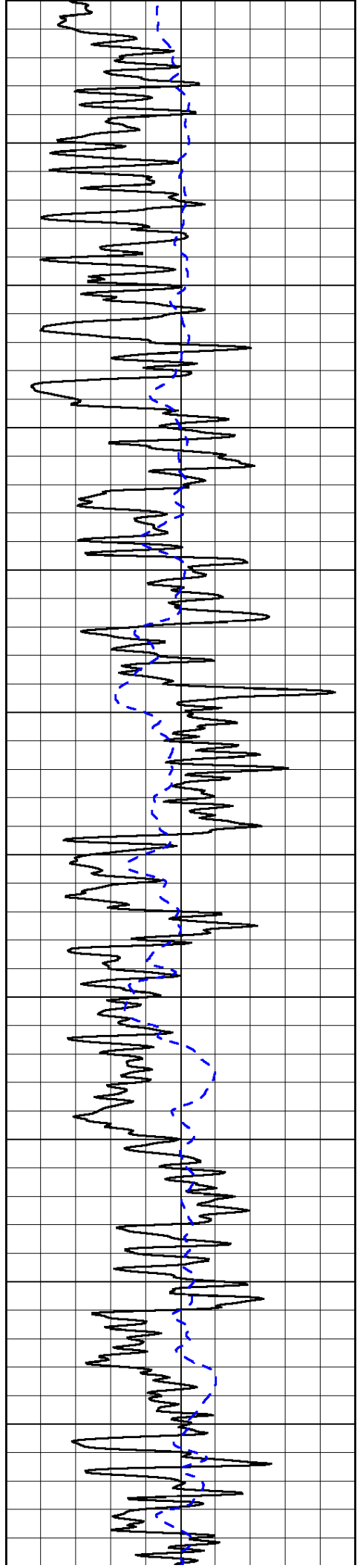
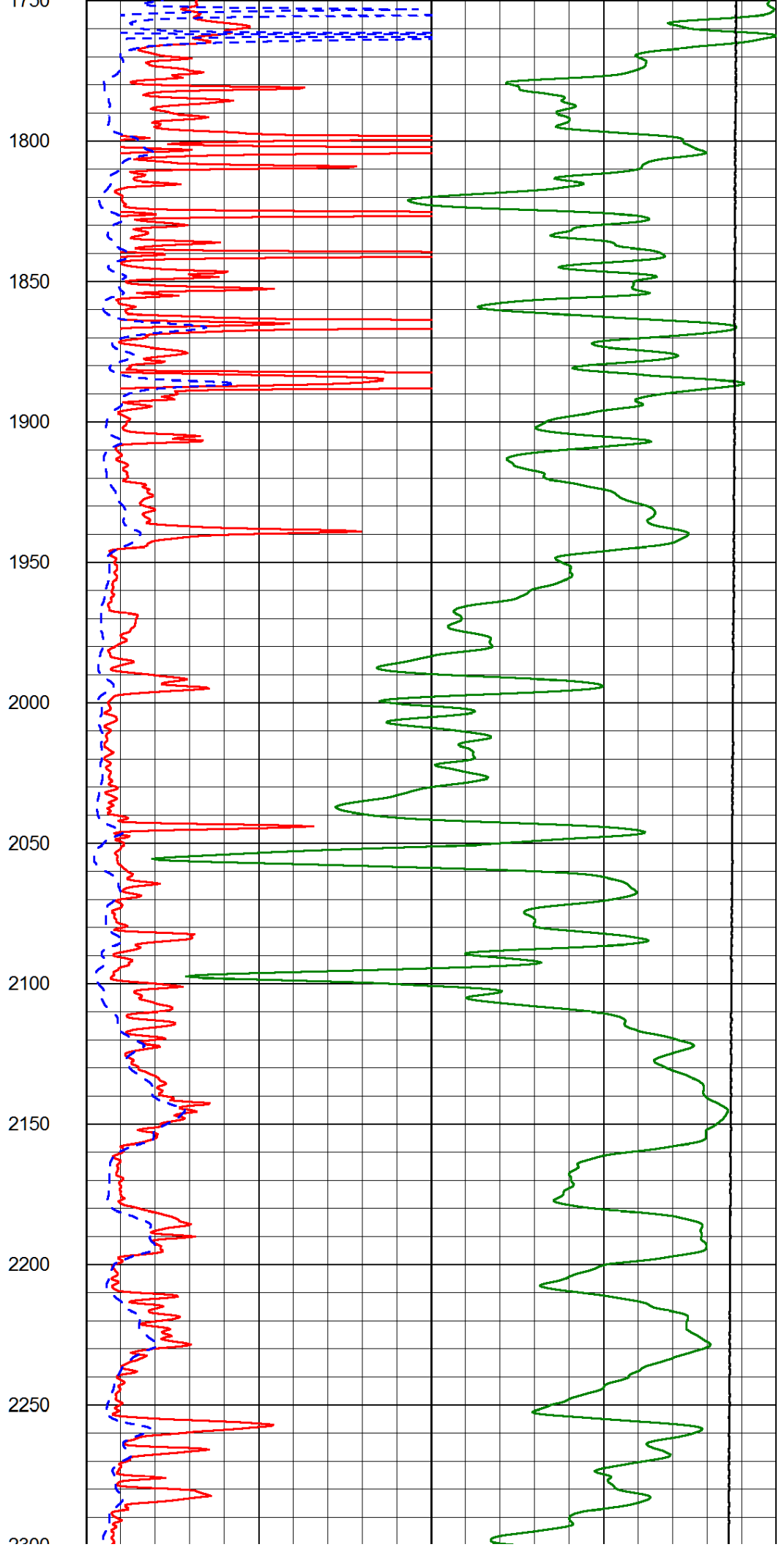
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-200	SP (mV)	0

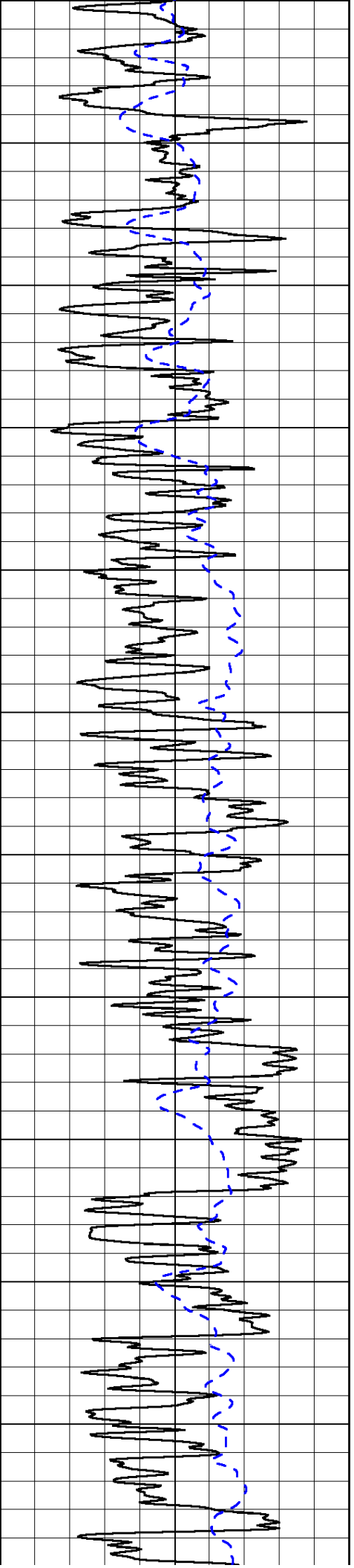
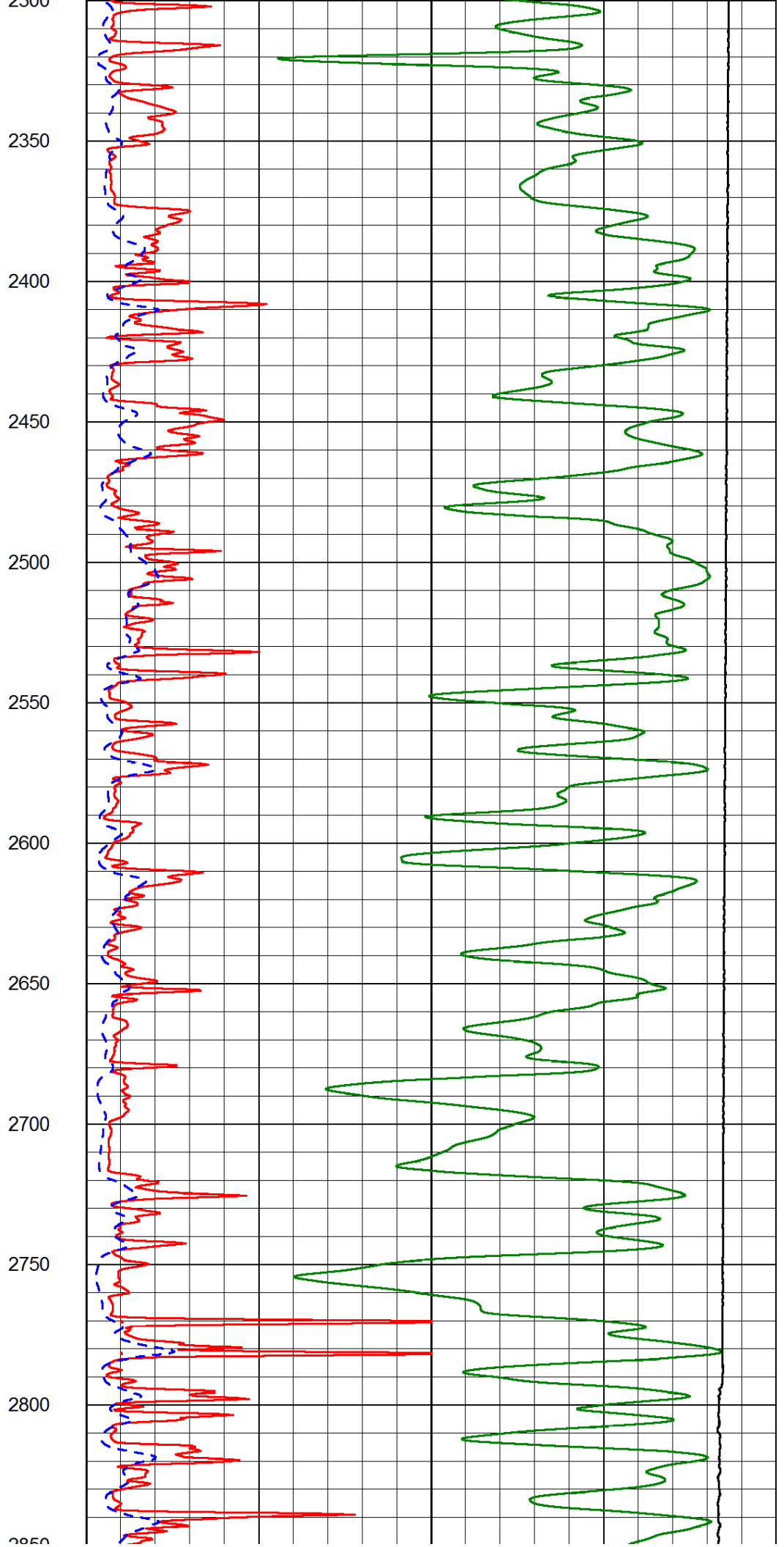
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

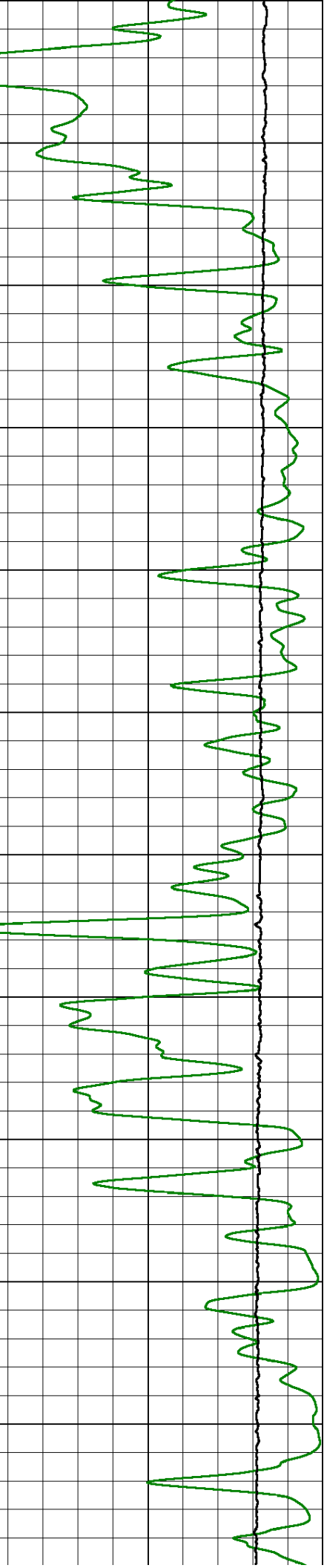
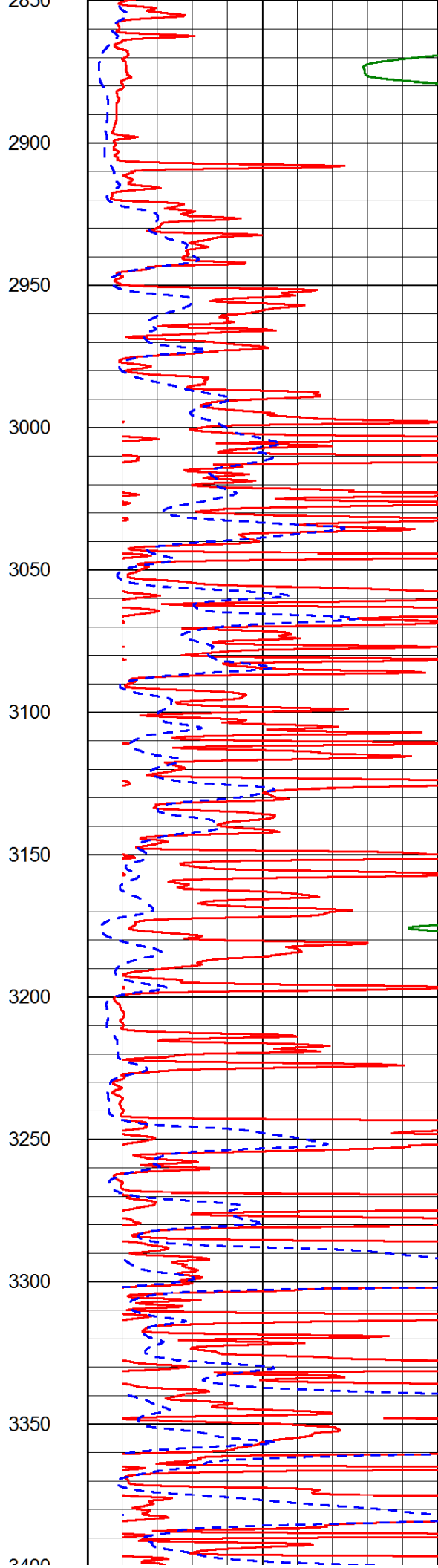
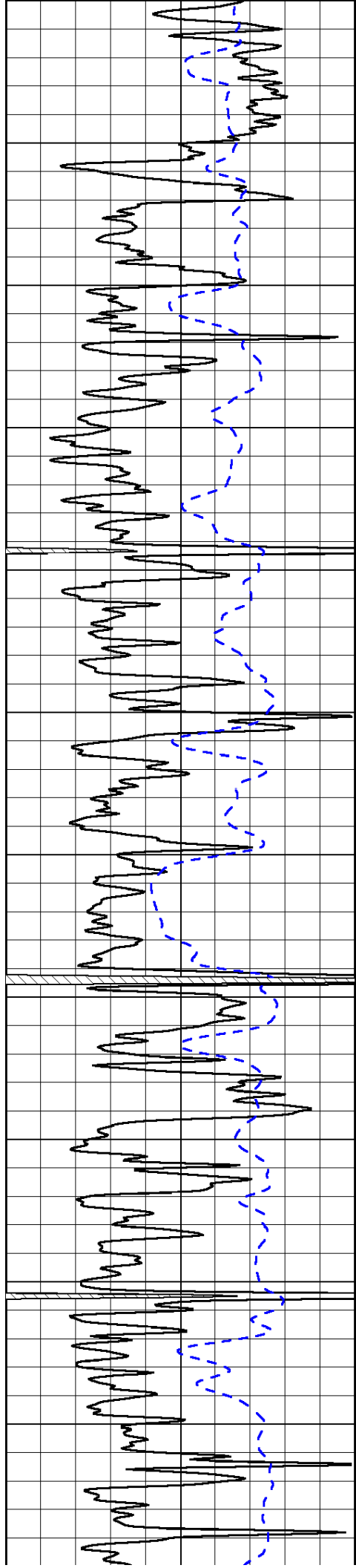


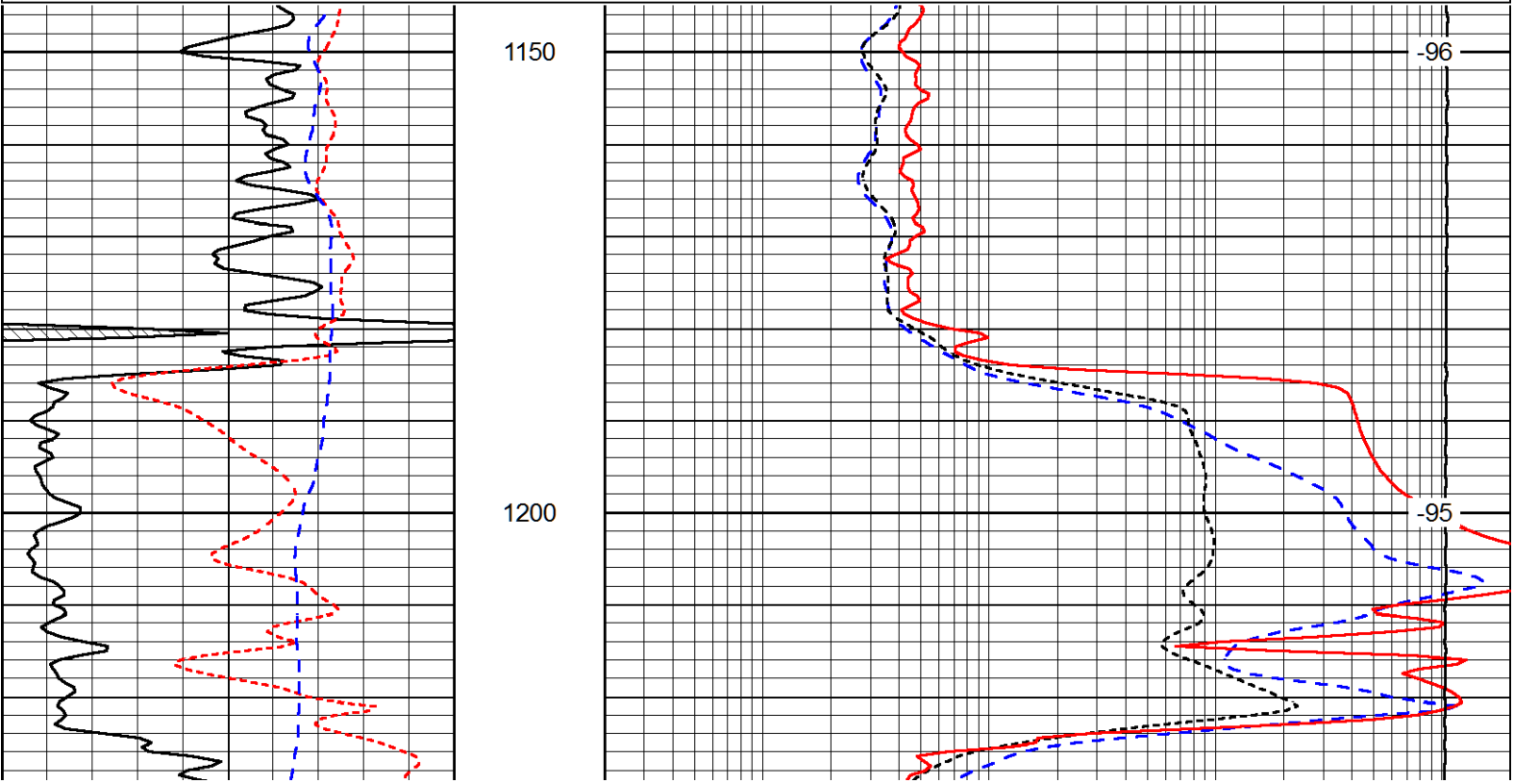
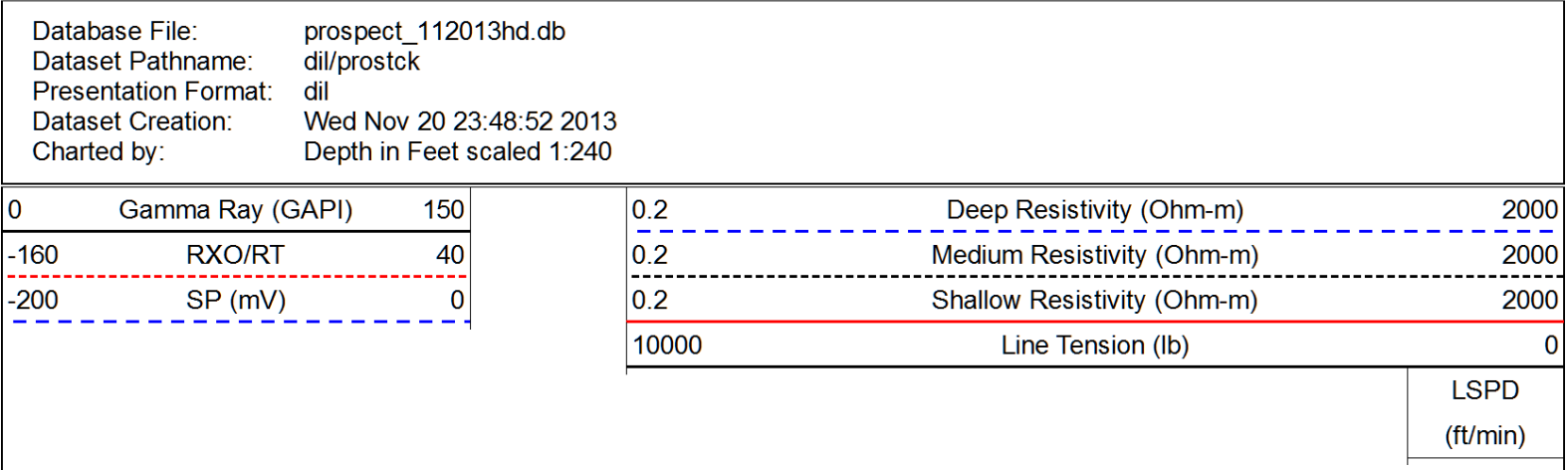
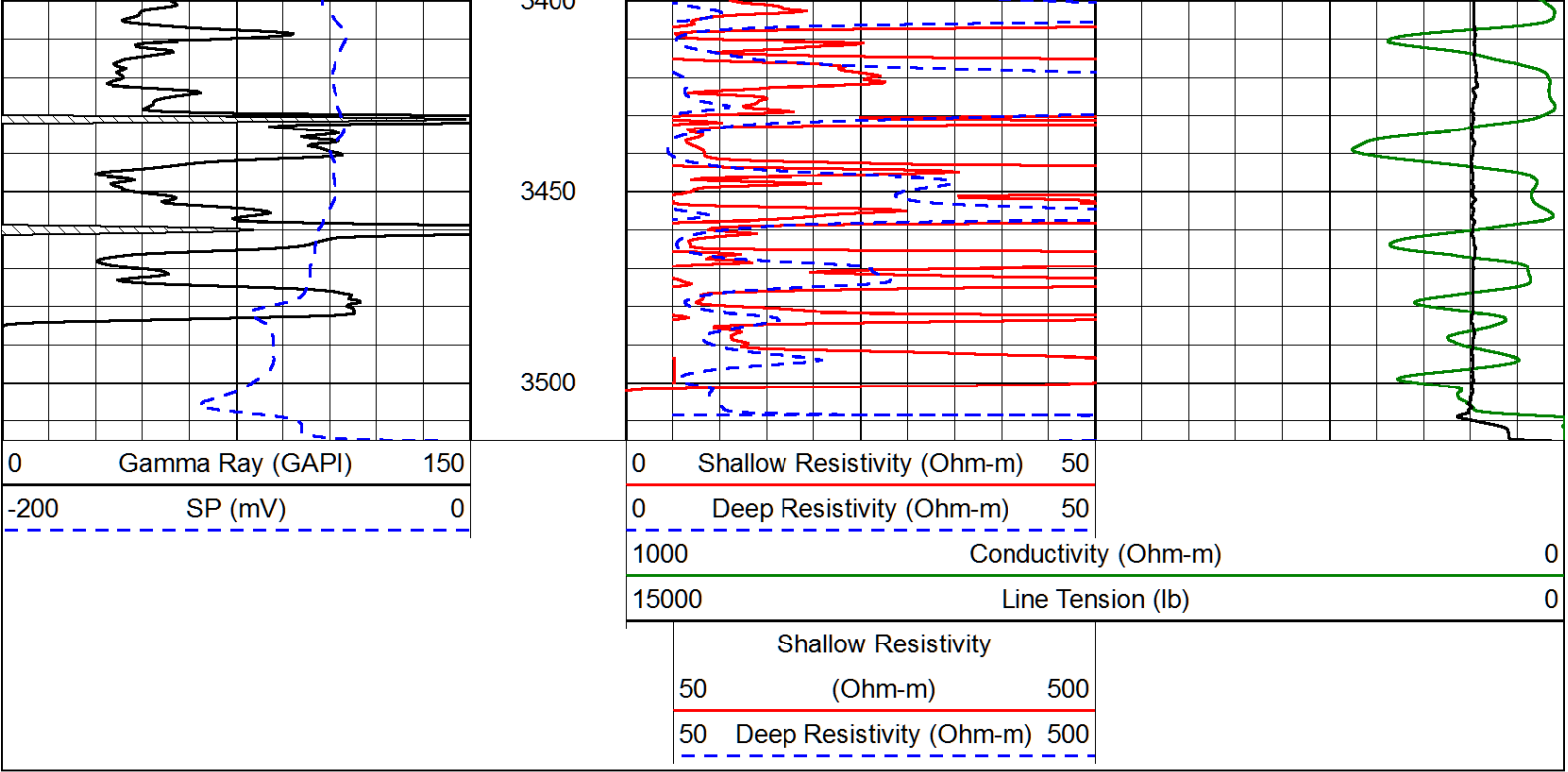


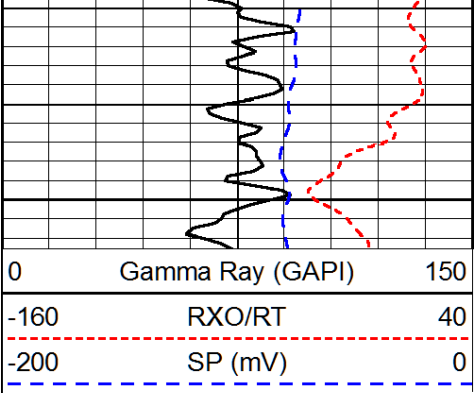




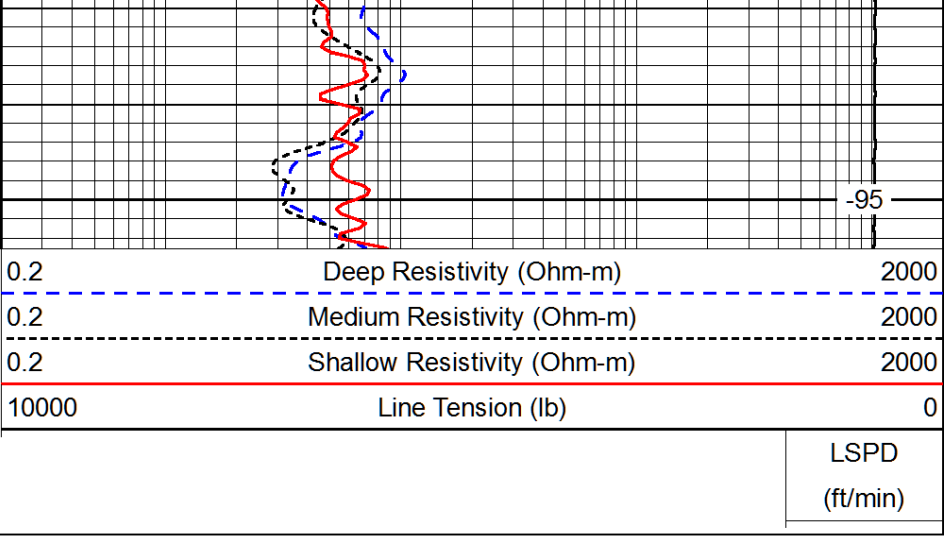




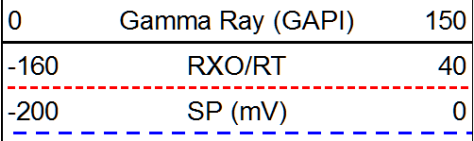




1250



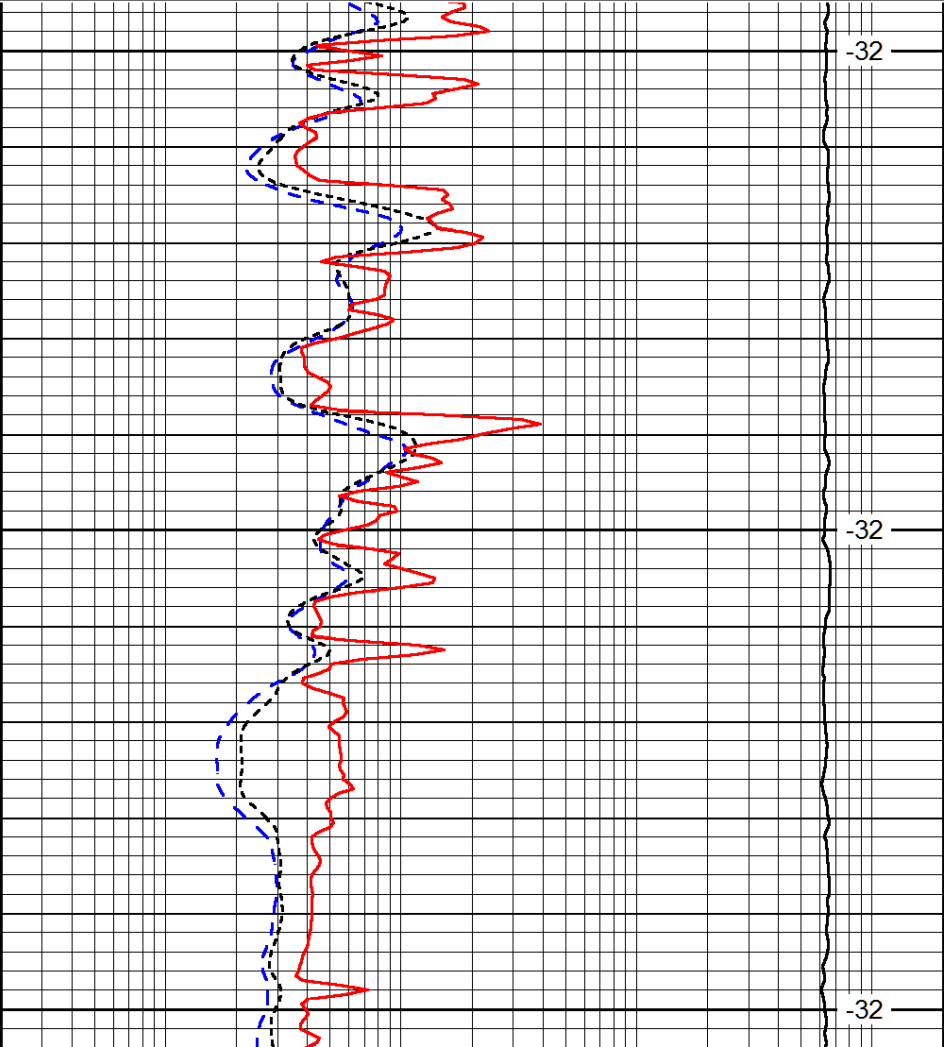
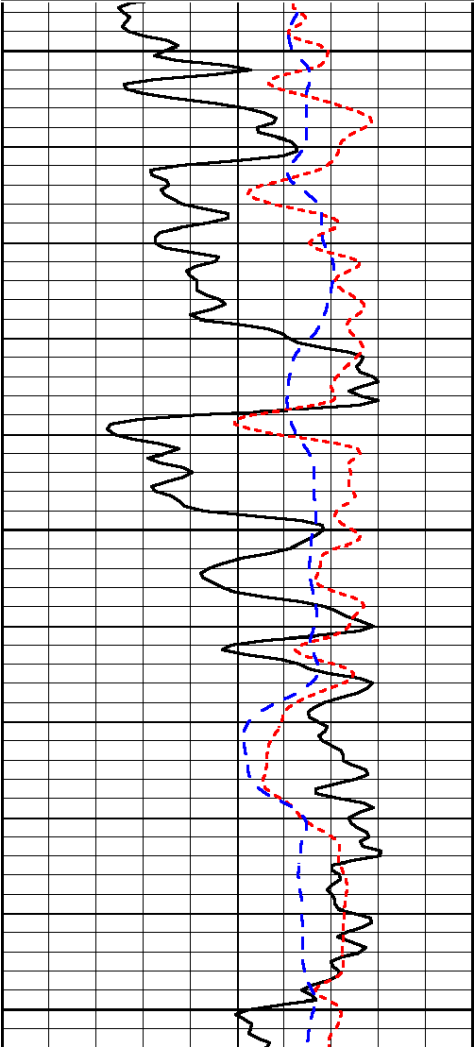
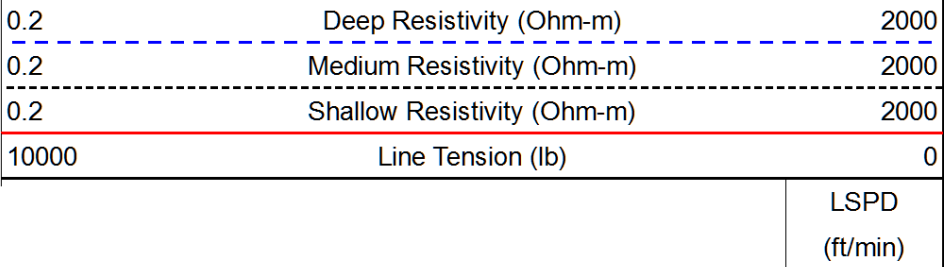
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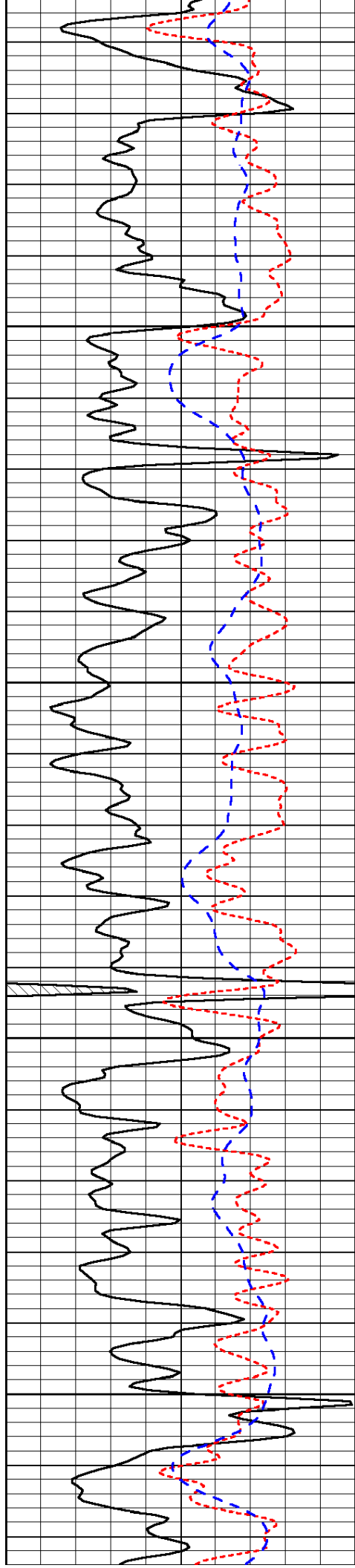


2800

2850

2900



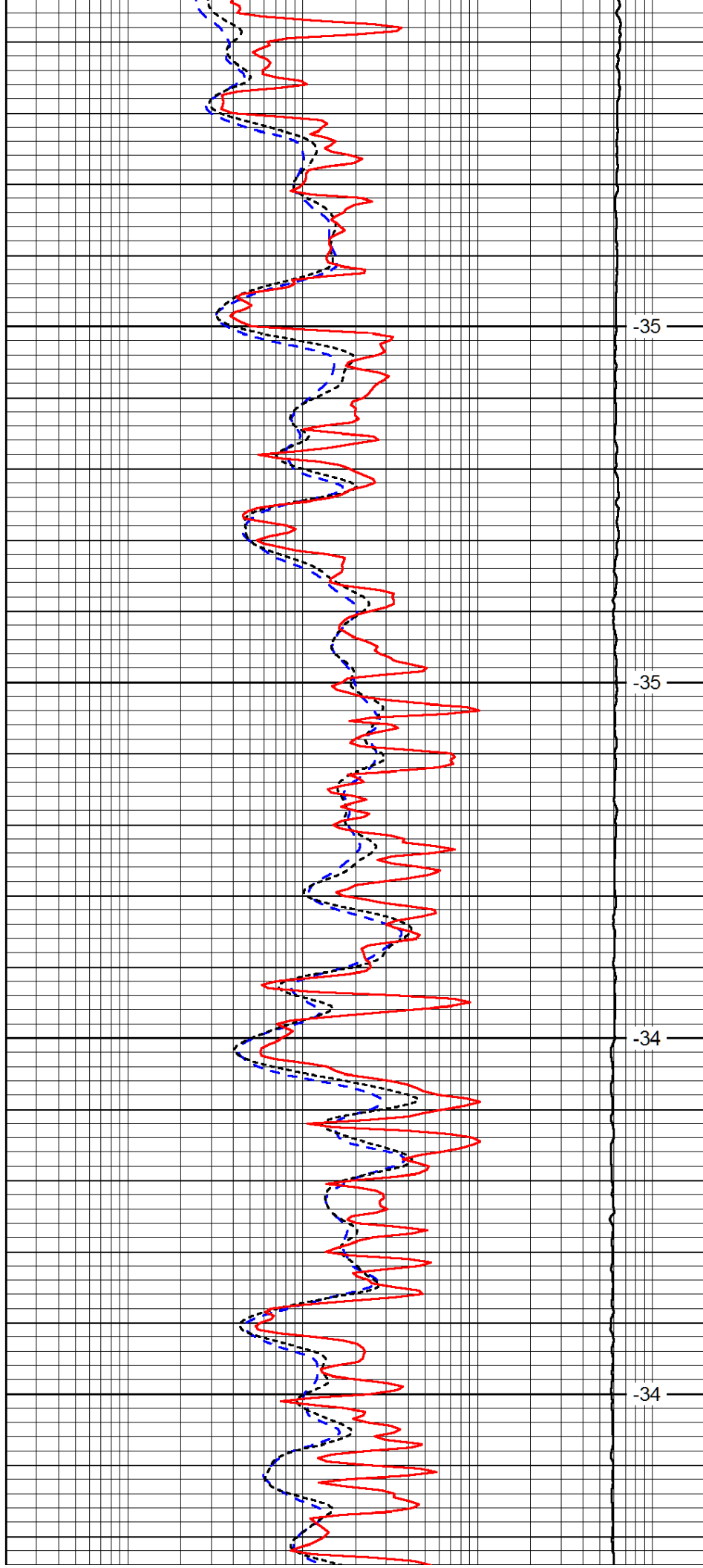


2950

3000

3050

3100

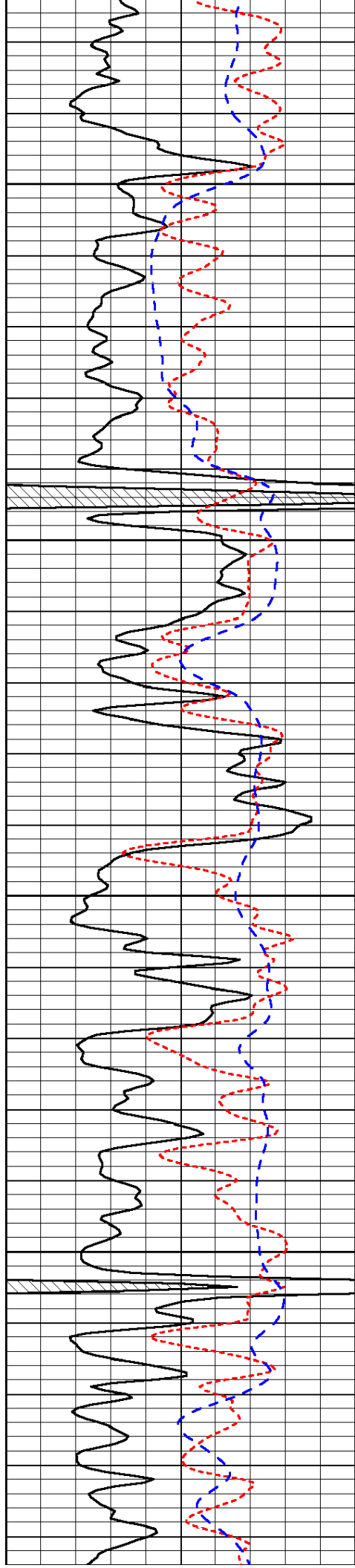


-35

-35

-34

-34

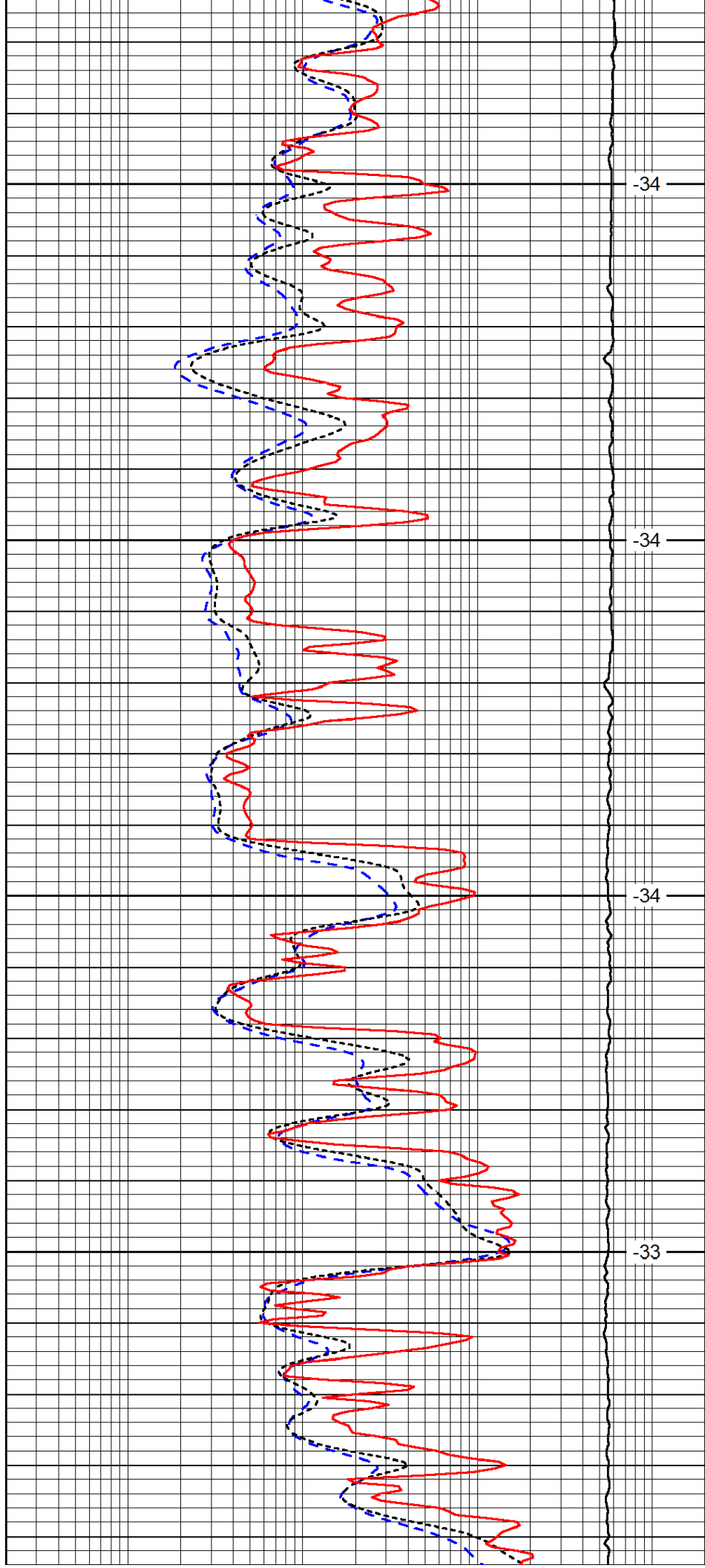


3150

3200

3250

3300

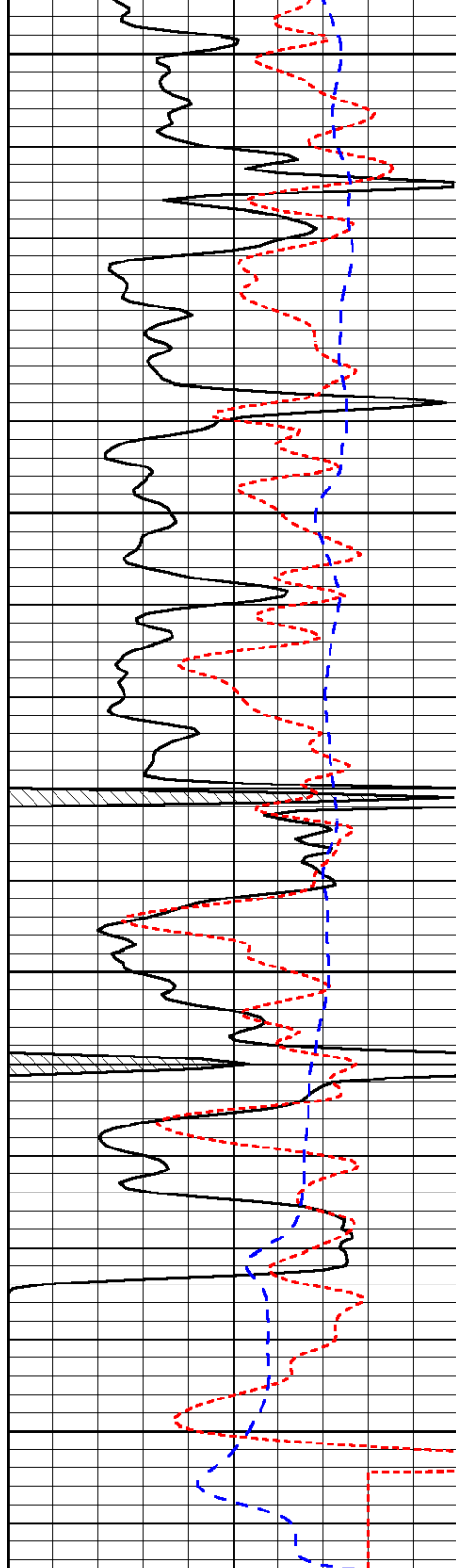


-34

-34

-34

-33



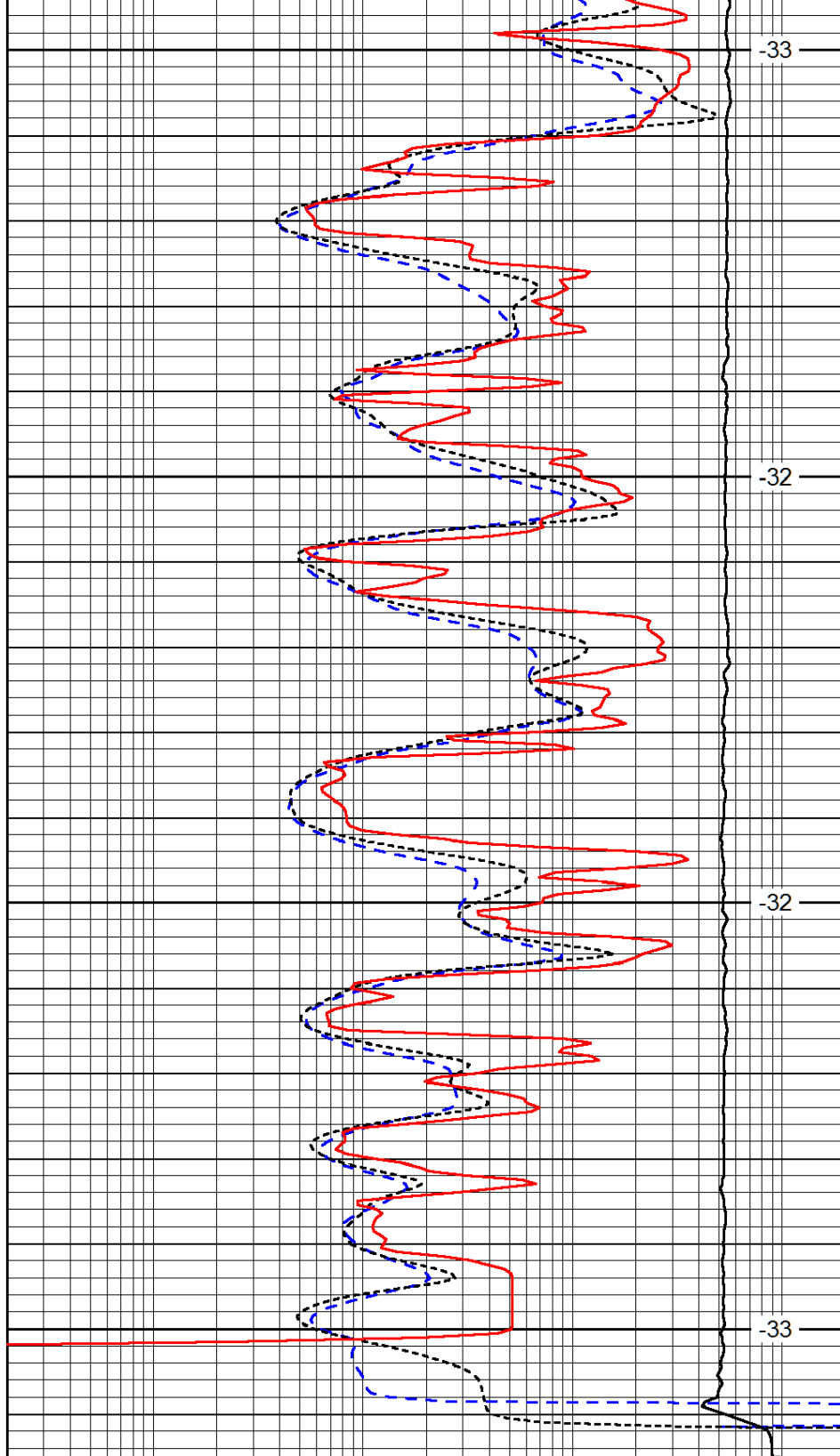
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-160	RXO/RT	40
-200	SP (mV)	0

3350

3400

3450

3500



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)