



Pioneer Energy Services

Dual Induction Log

API No.

15-051-26,603-00-00

Company Brungardt Oil and Leasing, Inc.

Well C.B. Beery #7

Field Emmeran NE

County Ellis State

Kansas

Location 2140' FNL & 1670' FWL

Sec: 34 Twp: 12S Rge: 16W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2036
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 9/13/2013

Run Number One

Depth Driller 3590

Depth Logger 3589

Bottom Logged Interval 3588

Top Log Interval 200

Casing Driller 8.625 @ 224

Casing Logger 222

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 6000

Density / Viscosity 9.1 47

pH / Fluid Loss 10.0 8.8

Source of Sample Flowline

Rm @ Meas. Temp 0.40 @ 76

Rmf @ Meas. Temp 0.30 @ 76

Rmc @ Meas. Temp 0.54 @ 76

Source of Rmf / Rmc Charts

Rm @ BHT 0.27 @ 112

Operating Rig Time 4 Hours

Max Rec. Temp. F 112

Equipment Number 15

Location Hays

Recorded By D. Kerr

Witnessed By Bob Hopkins

<<< Fold Here >>>

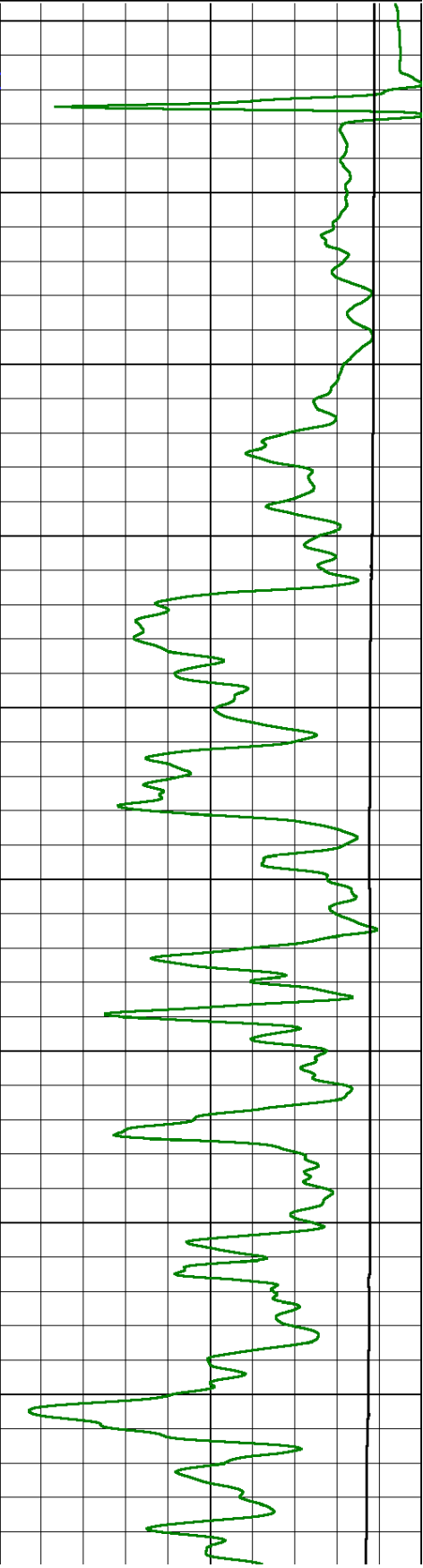
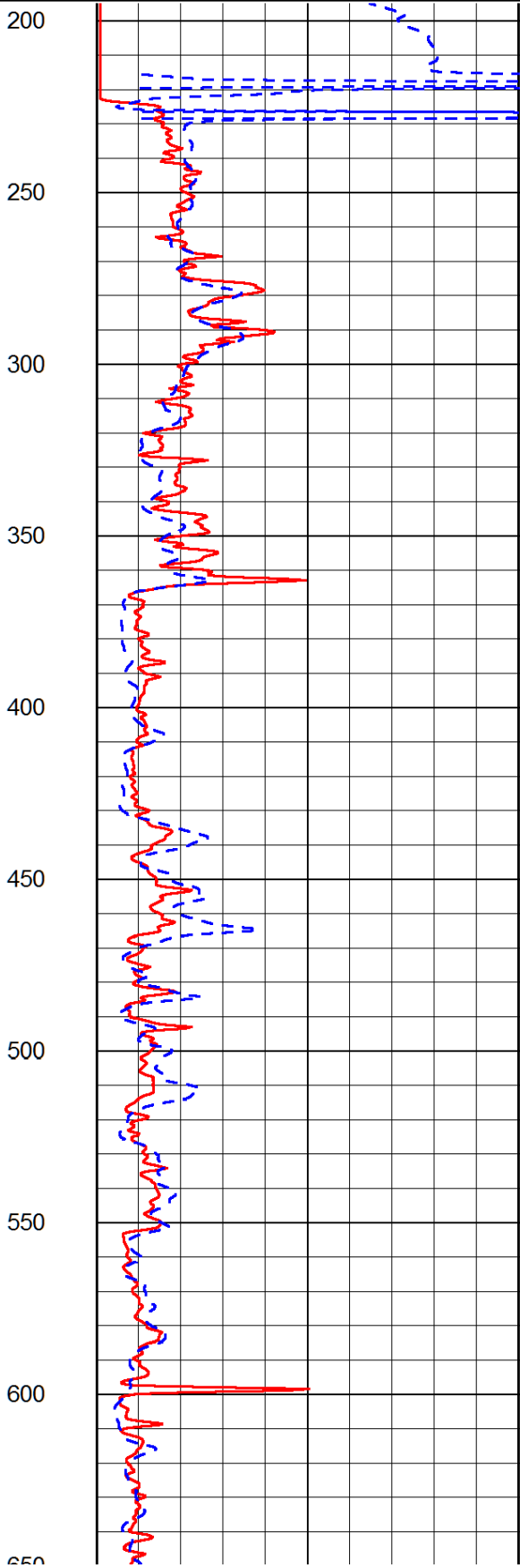
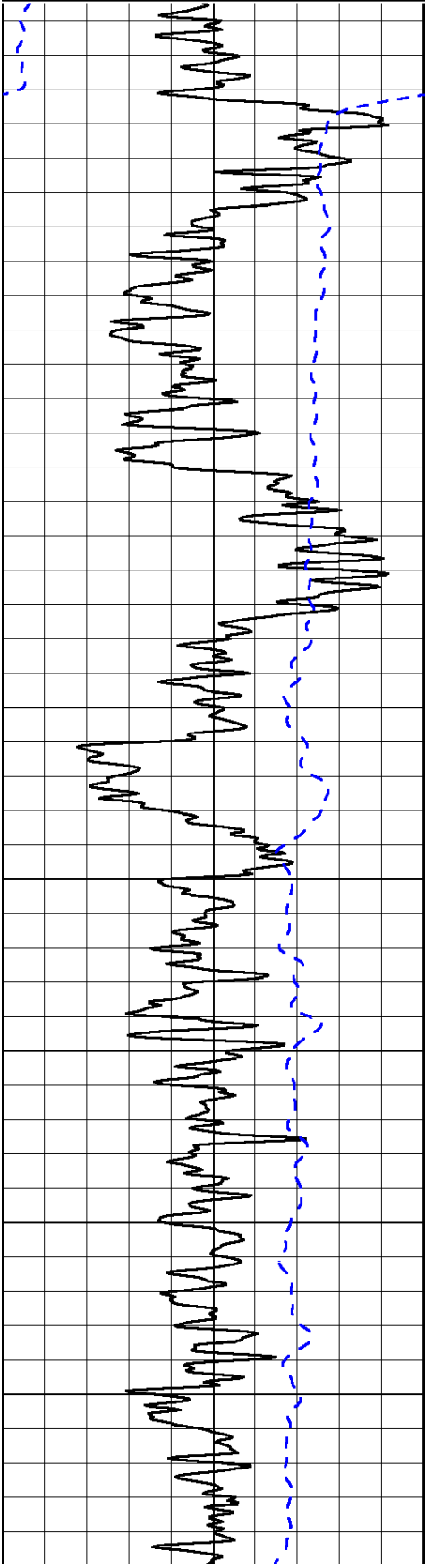
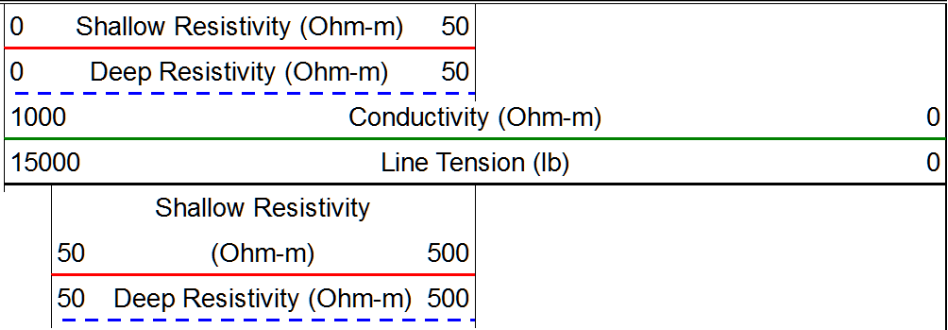
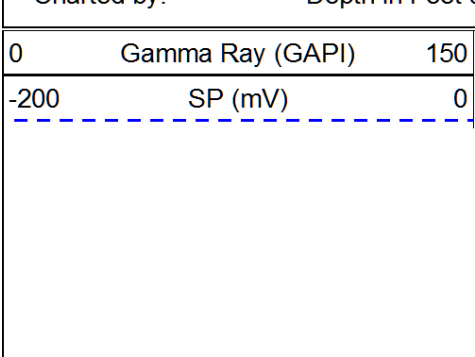
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

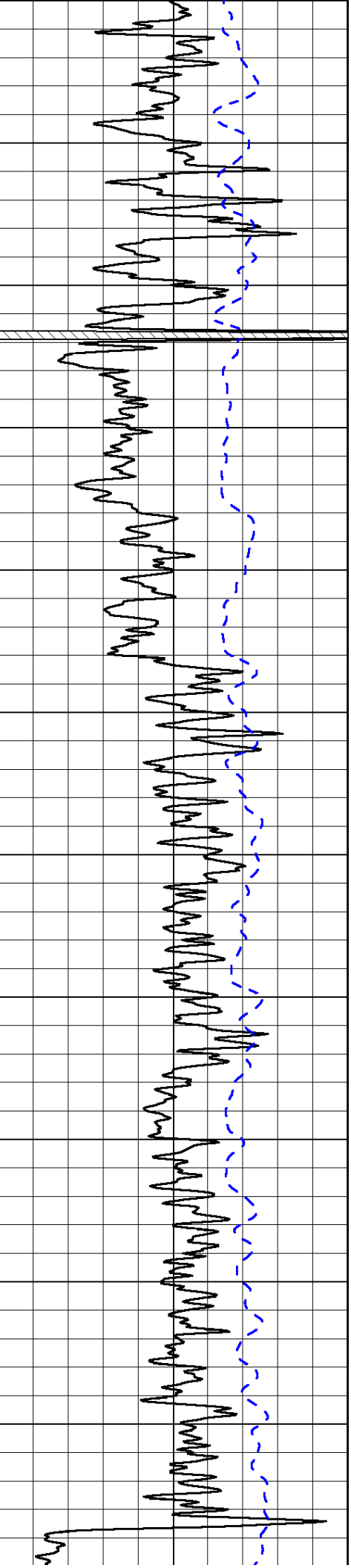
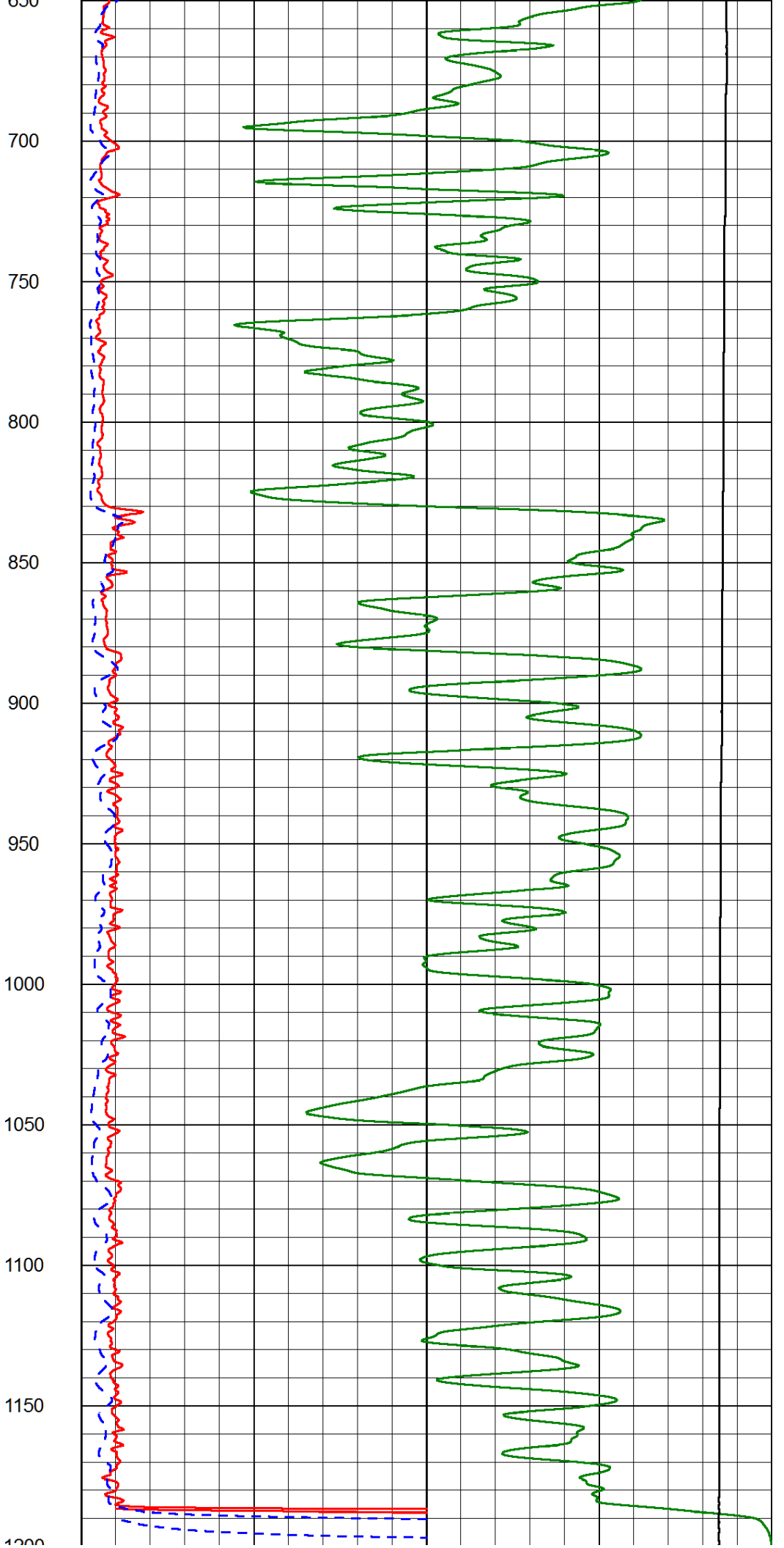
Comments

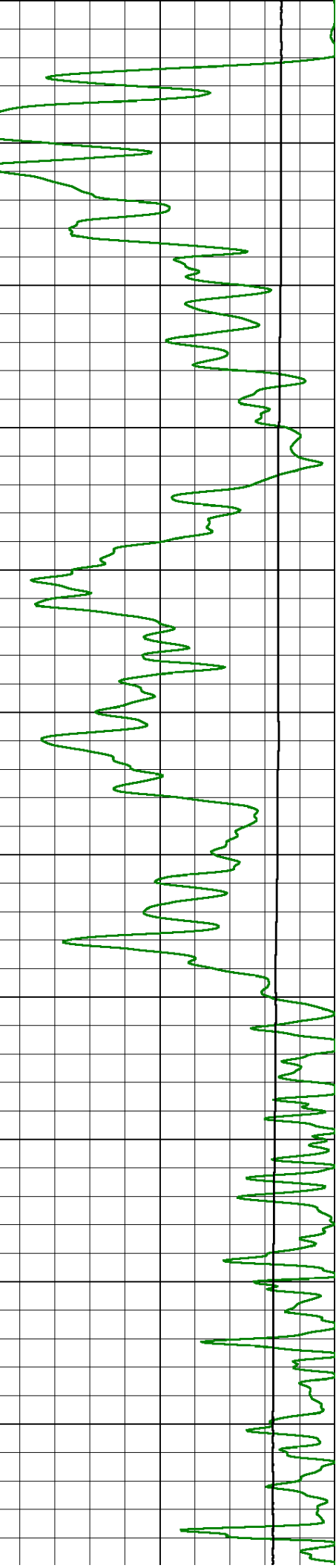
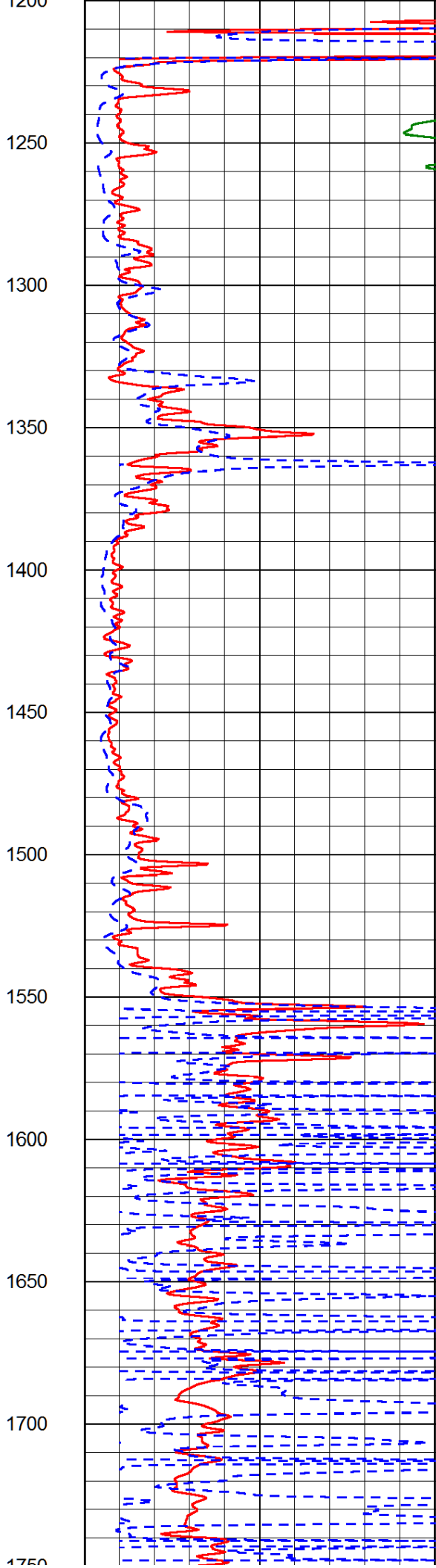
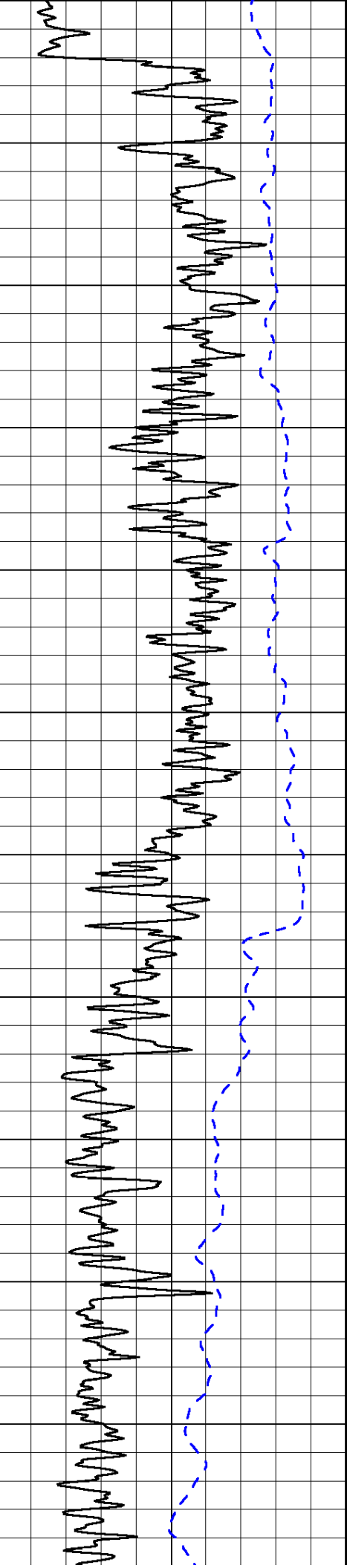
Thank you for using Log-Tech, Inc.
(785) 625-3858

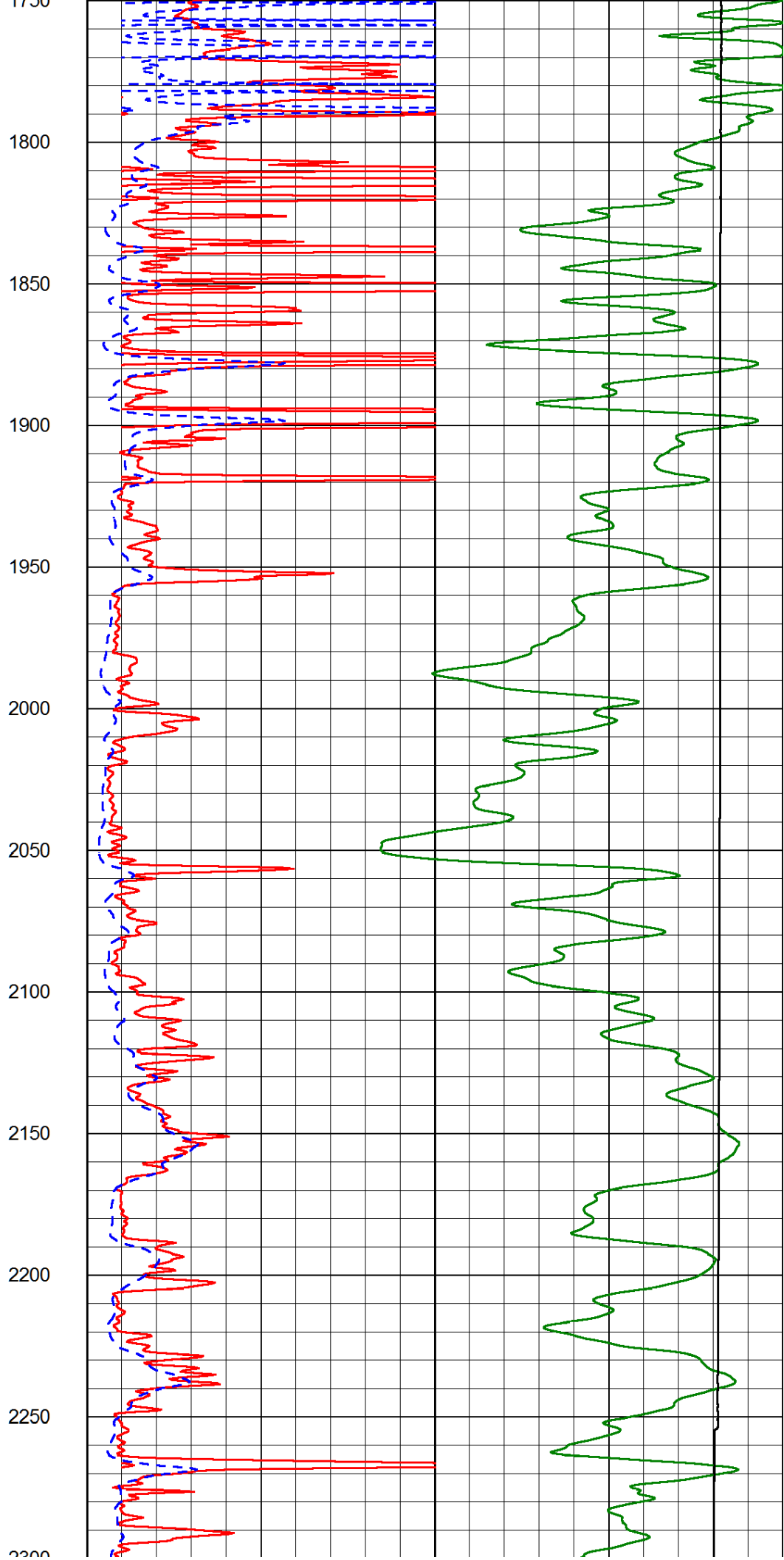
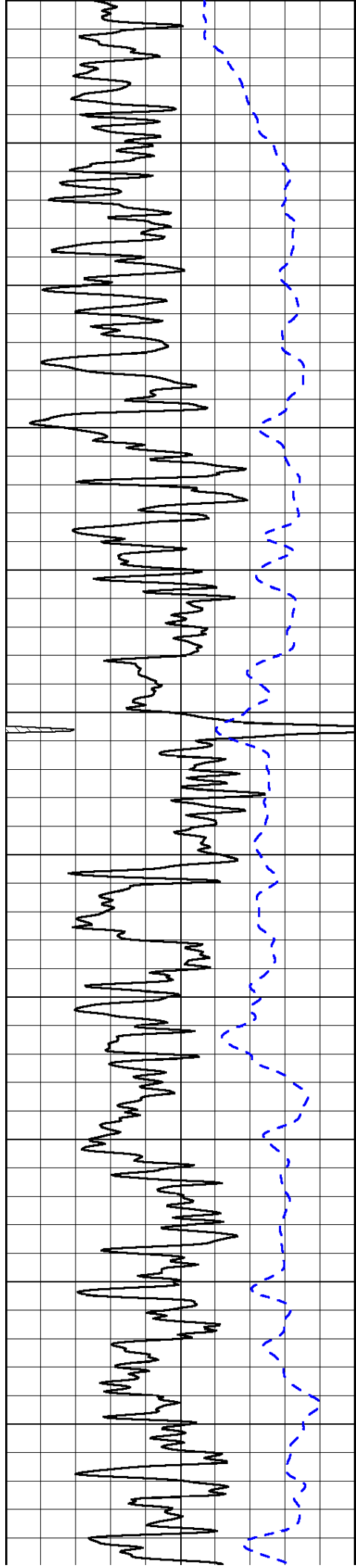
Victoria KS, North to Emmeran RD,
3 3/4 East, North Into

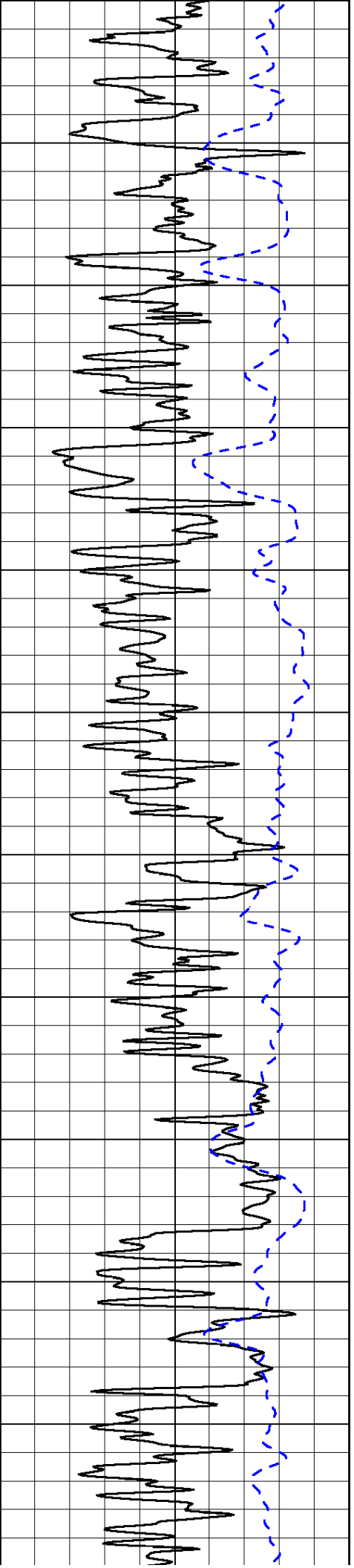
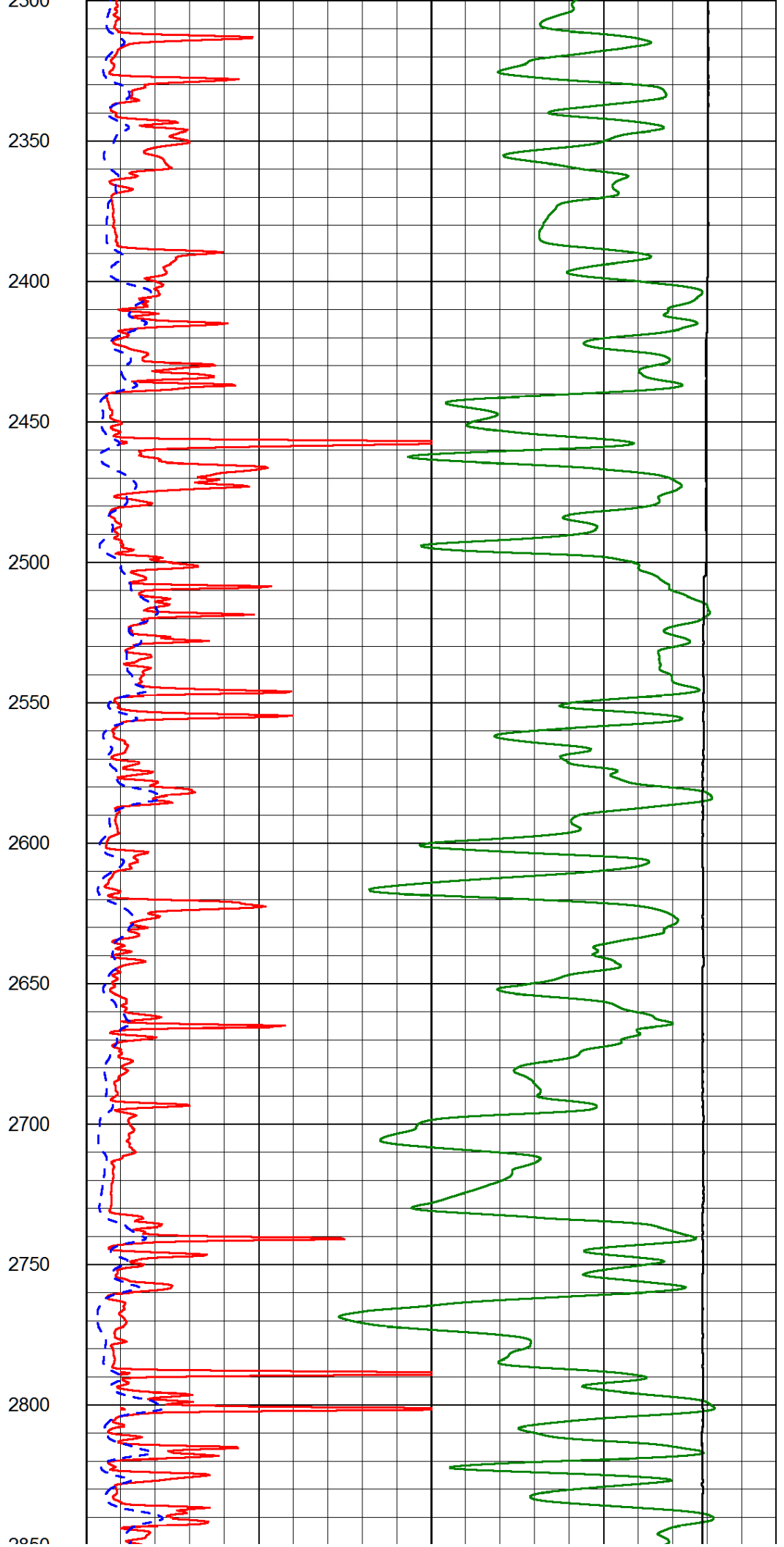
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Dataset Creation: Fri Sep 13 09:01:58 2013
Charted by: Depth in Feet scaled 1:600

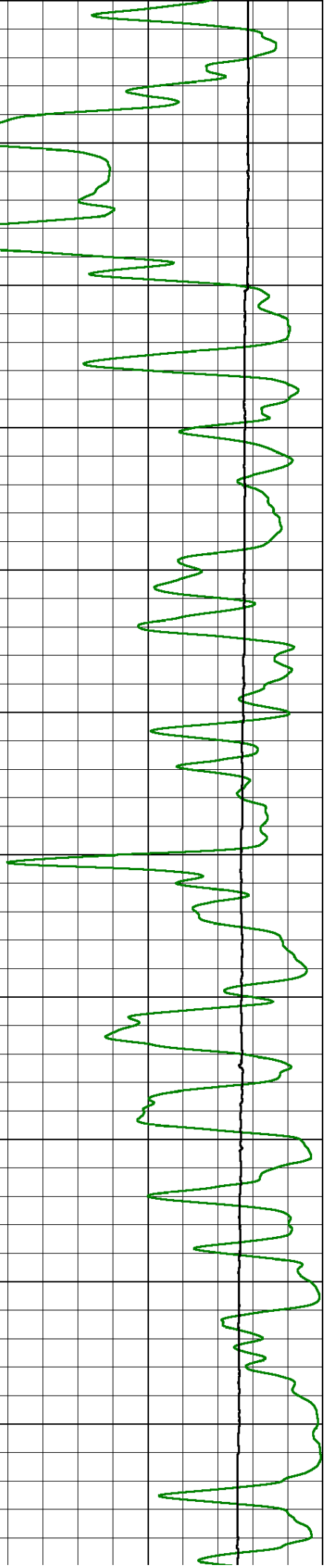
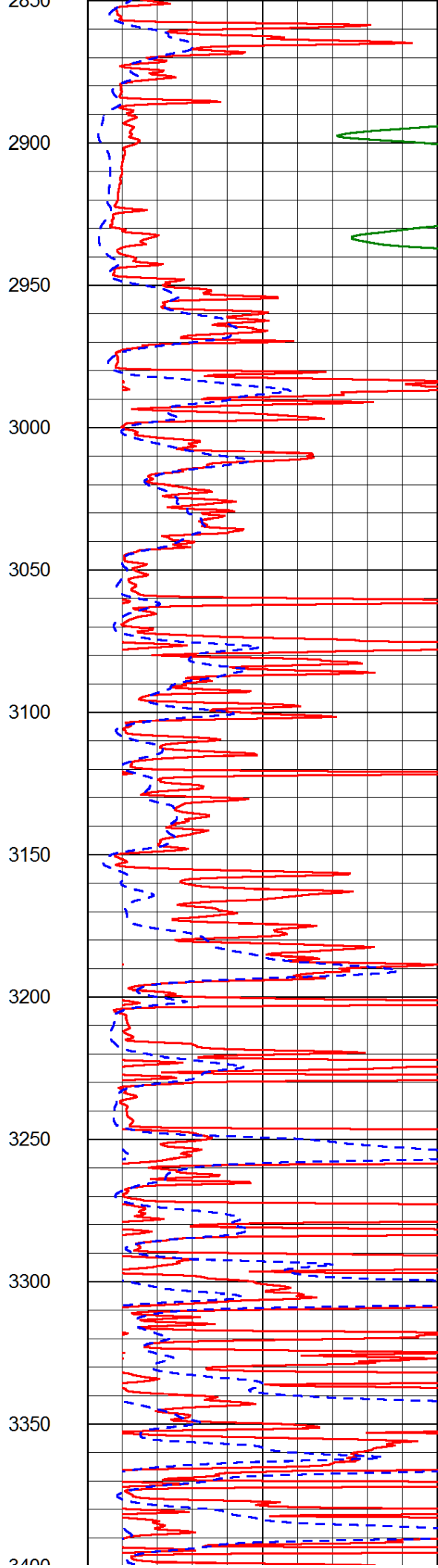
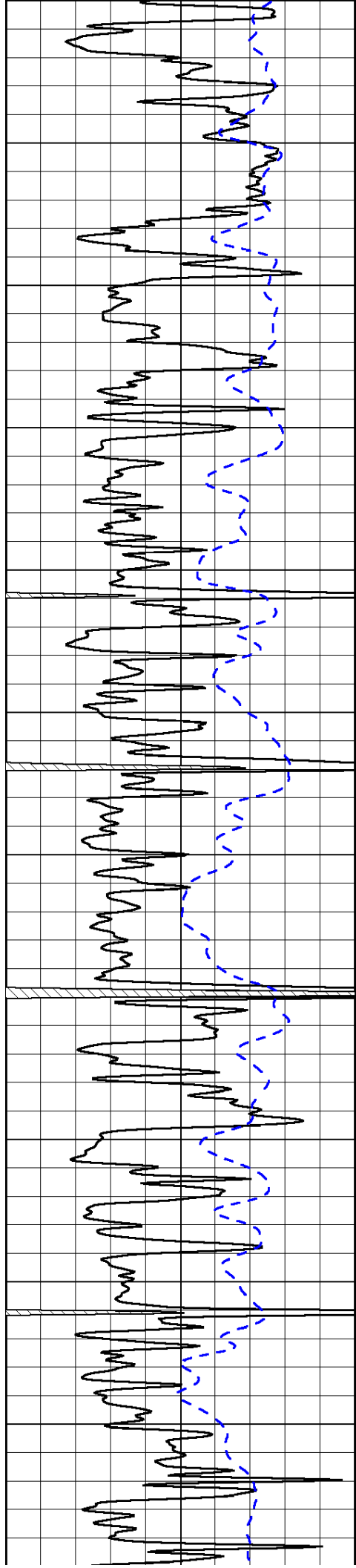


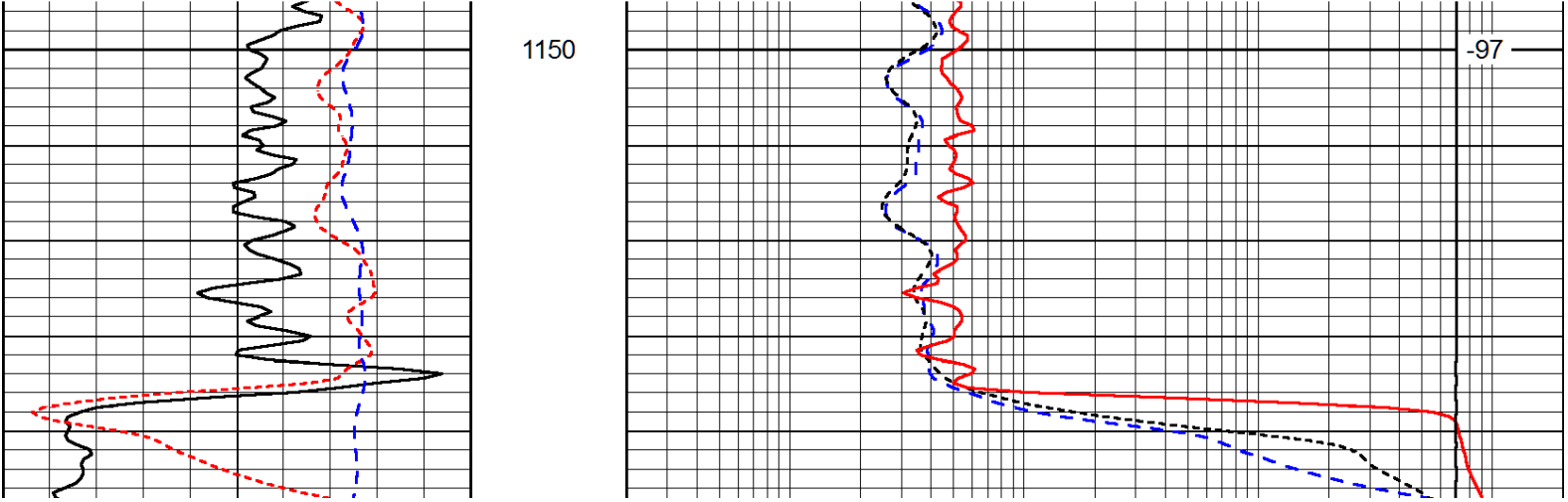
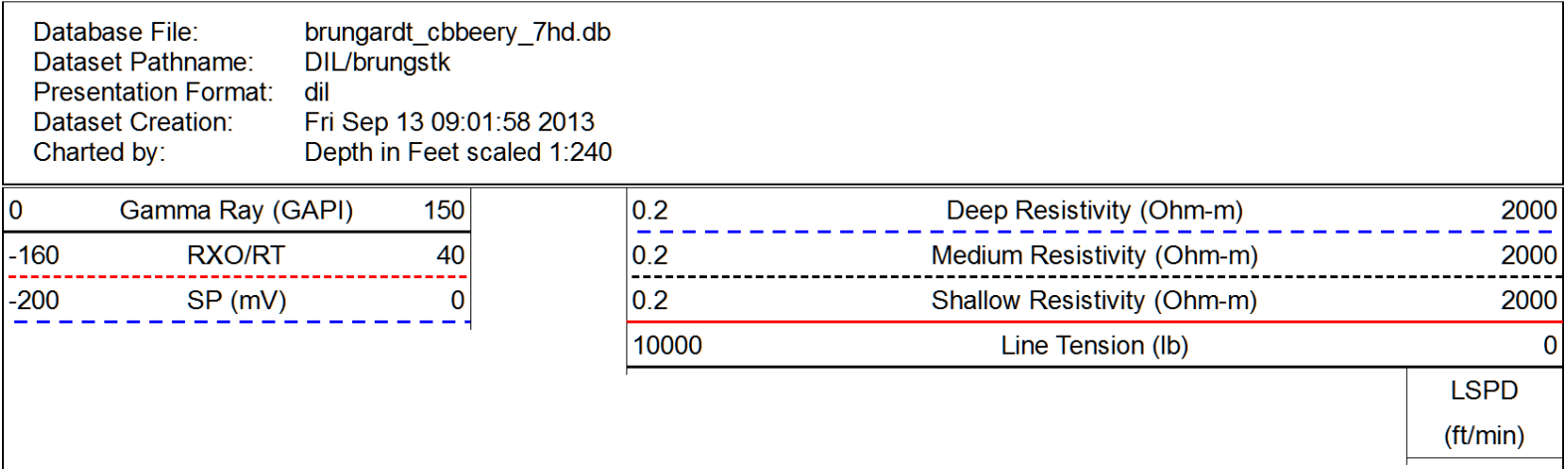
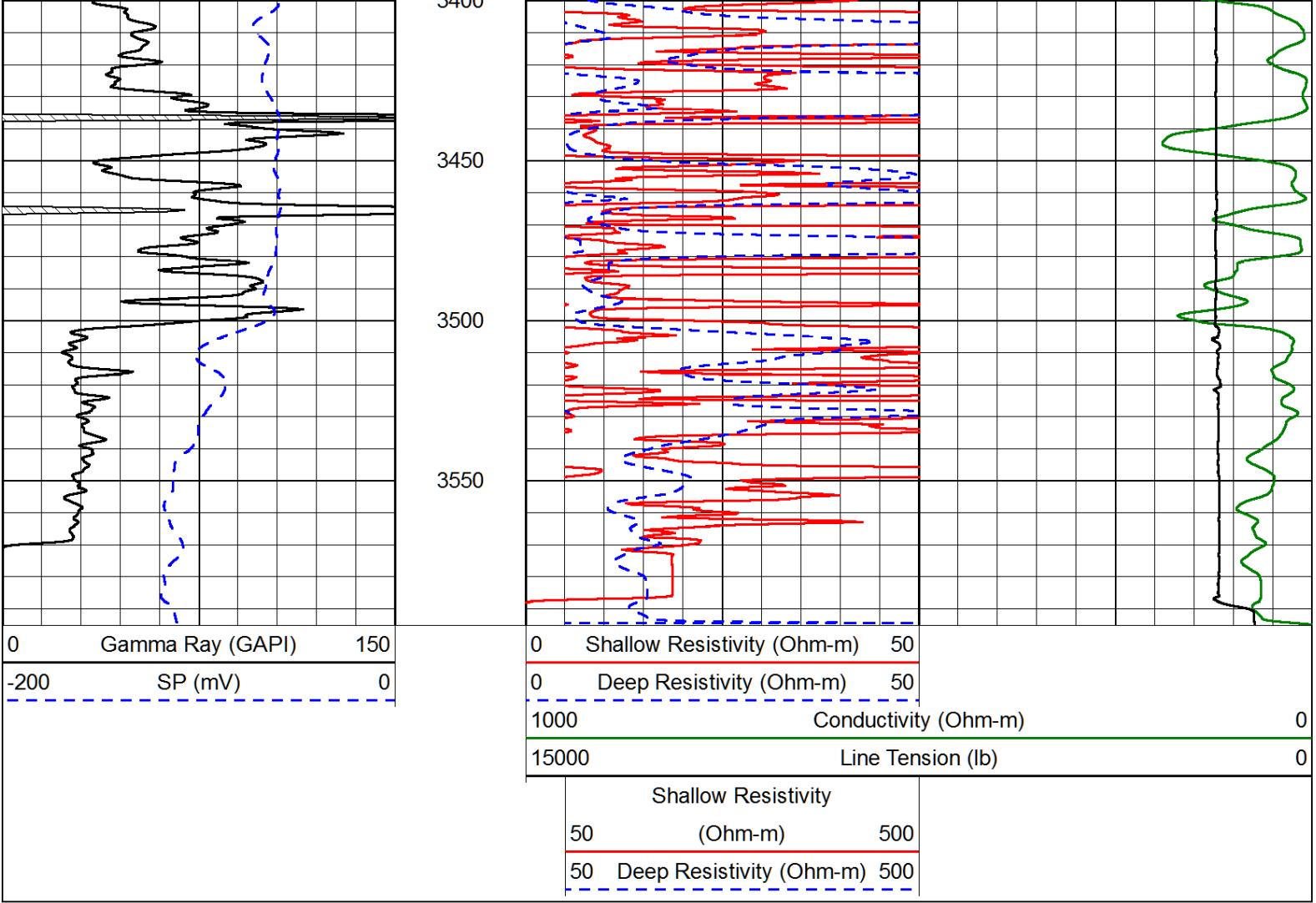


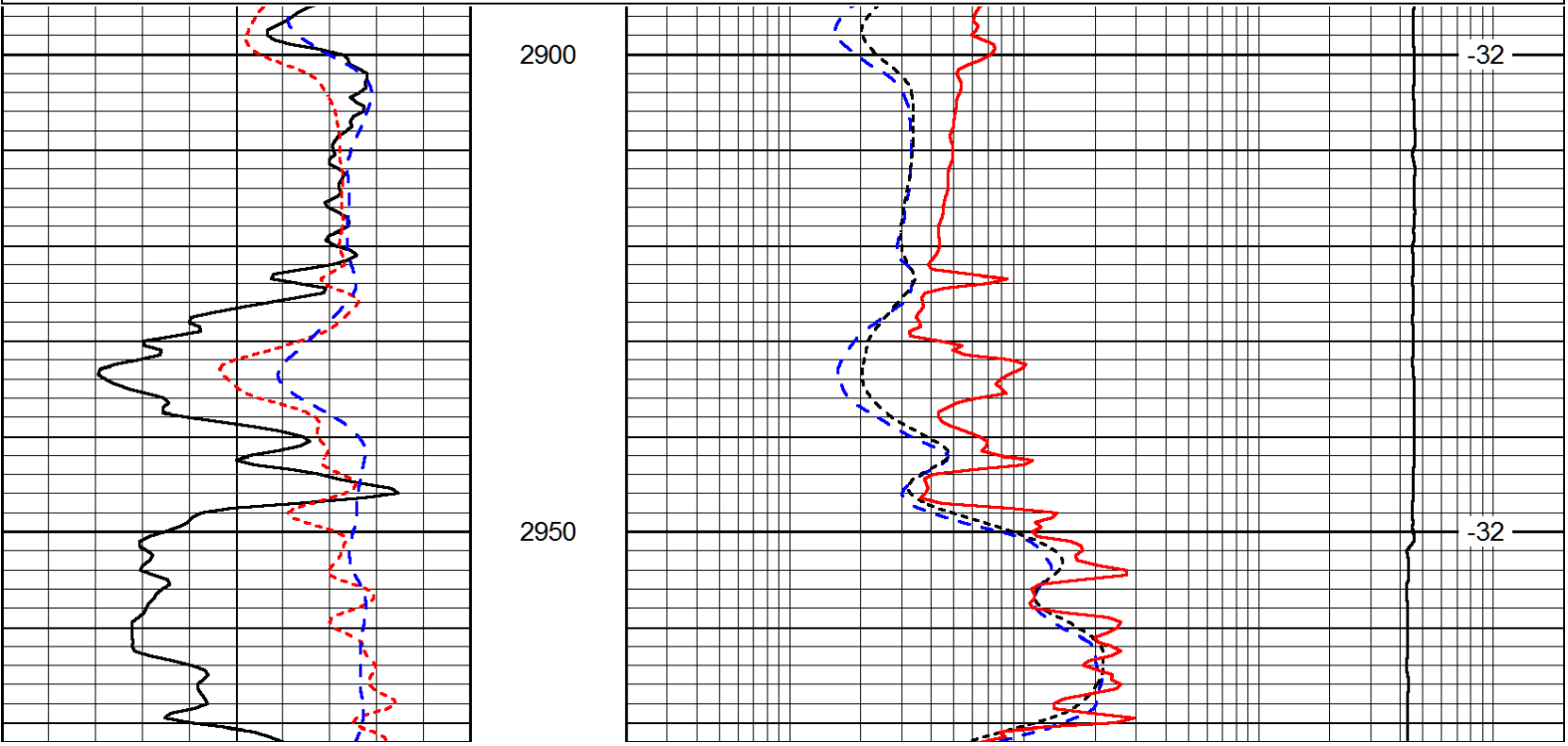
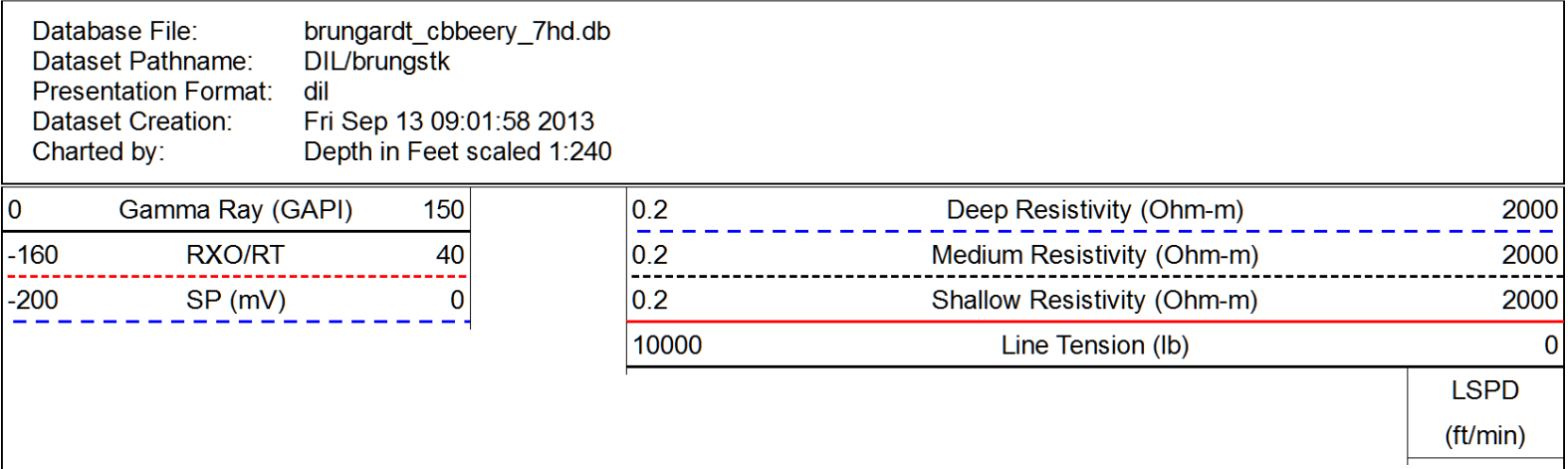
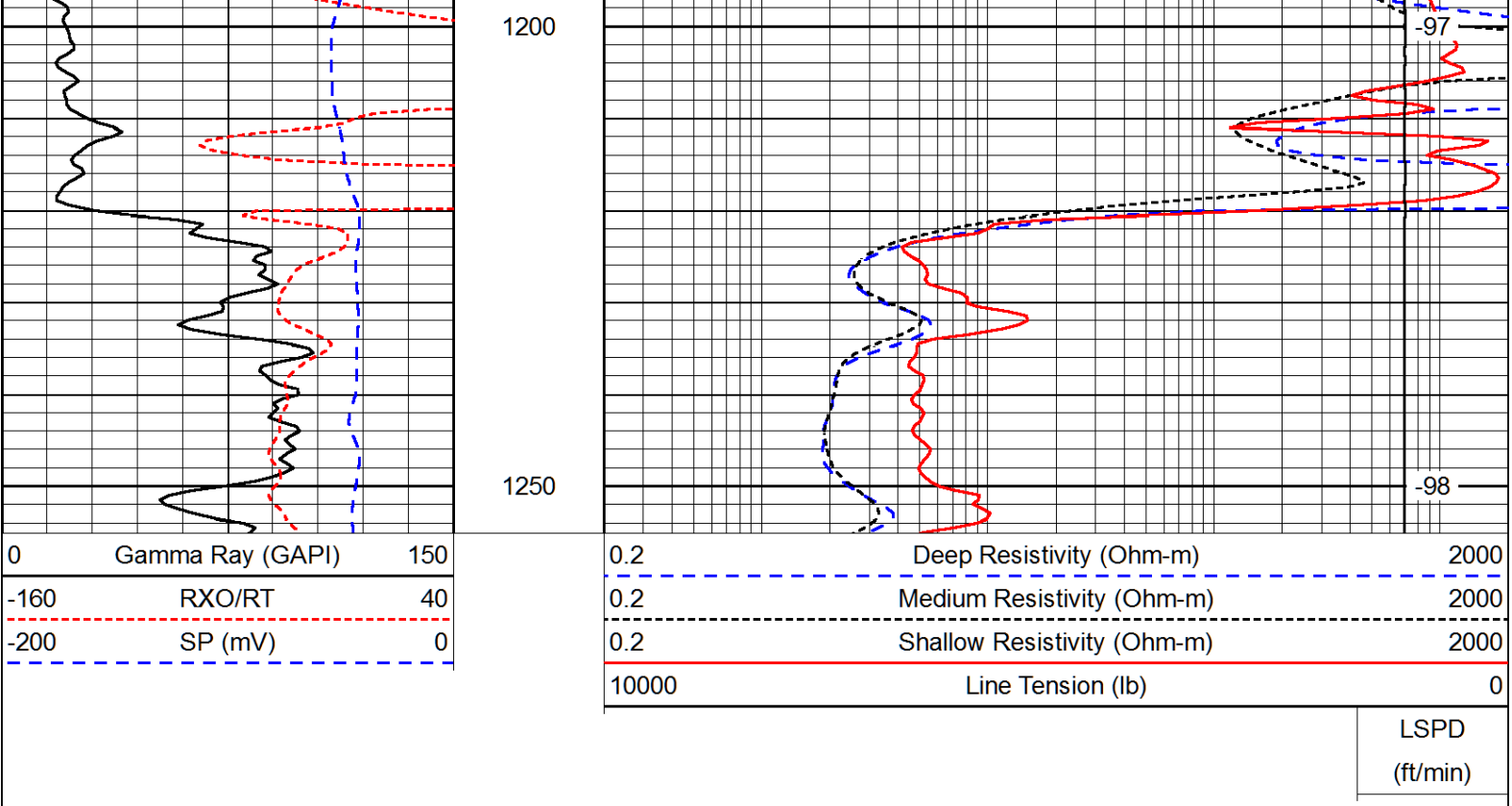


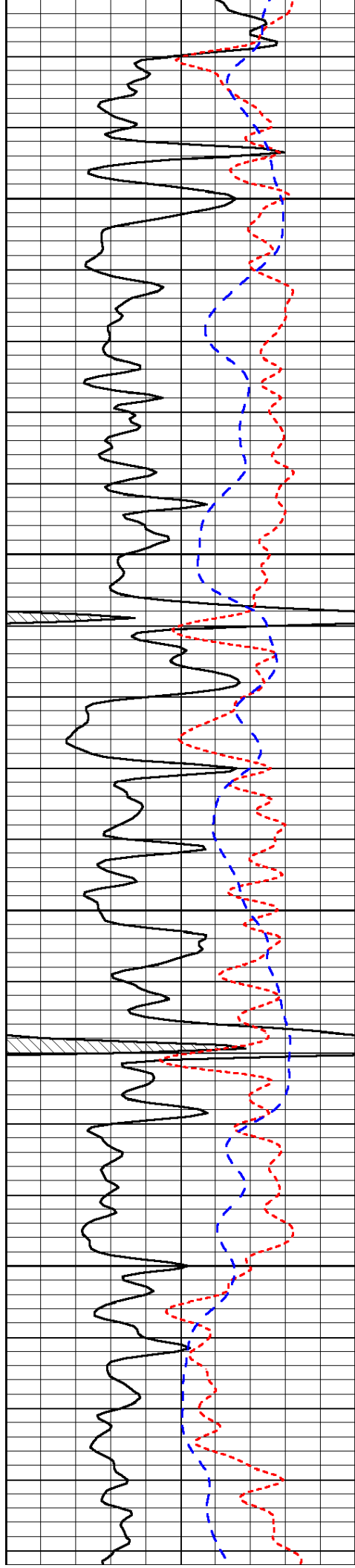










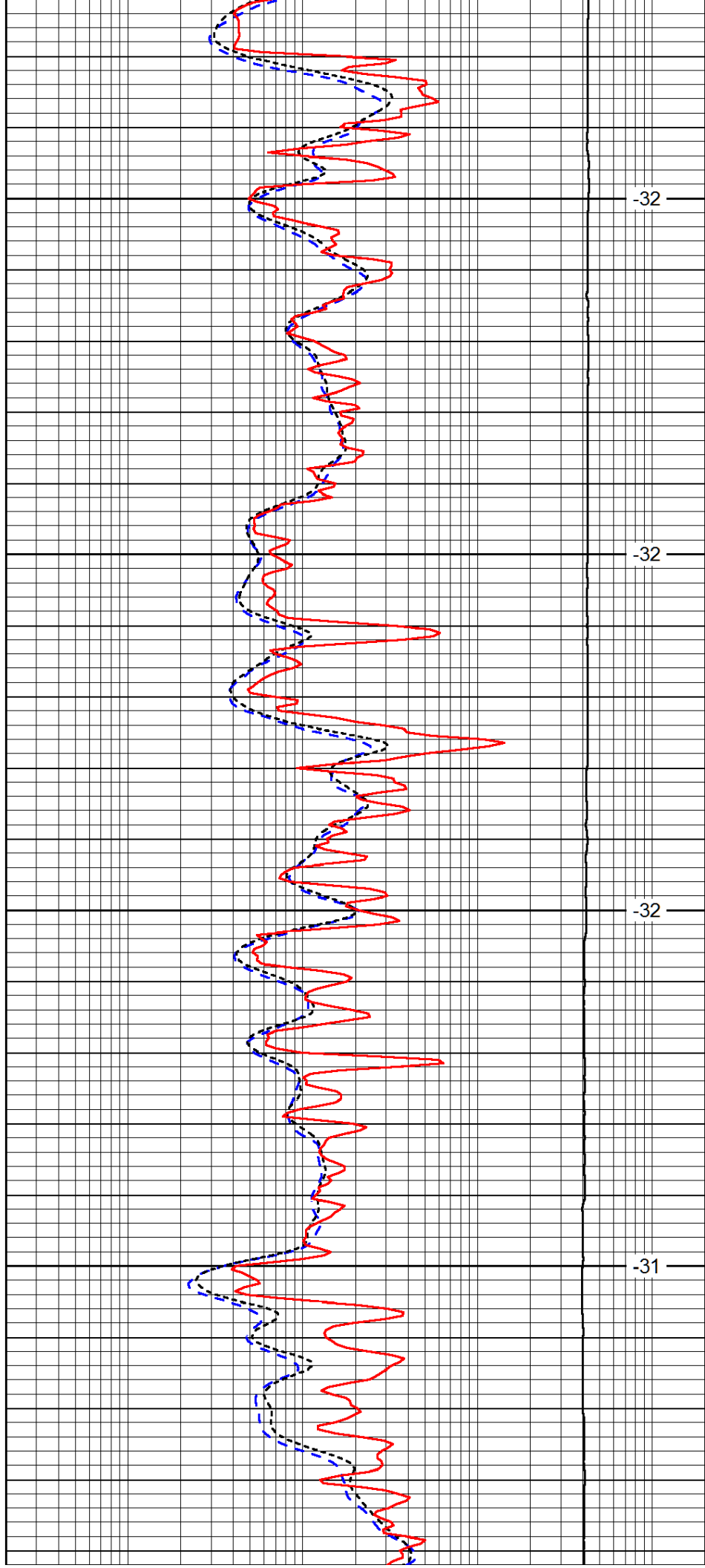


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3050

3100

3150

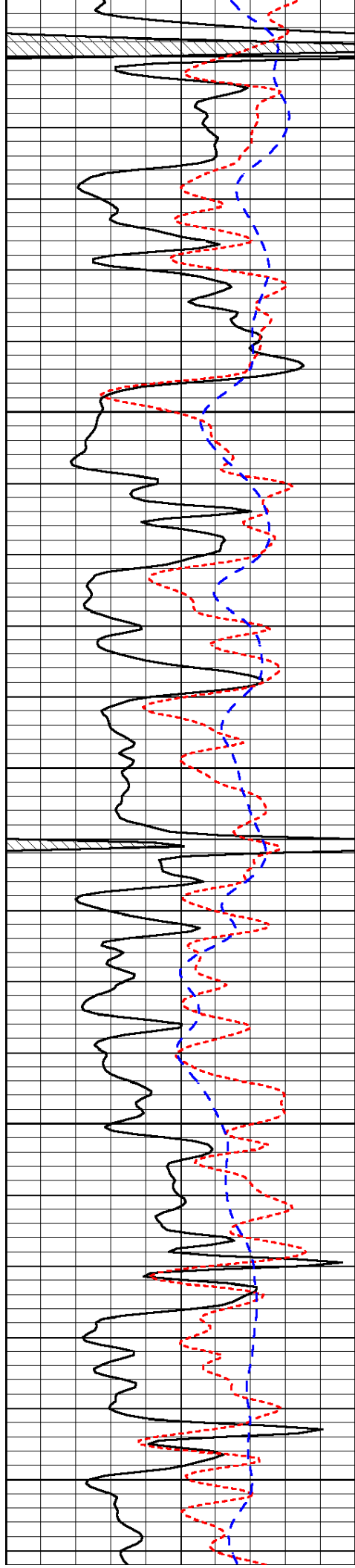


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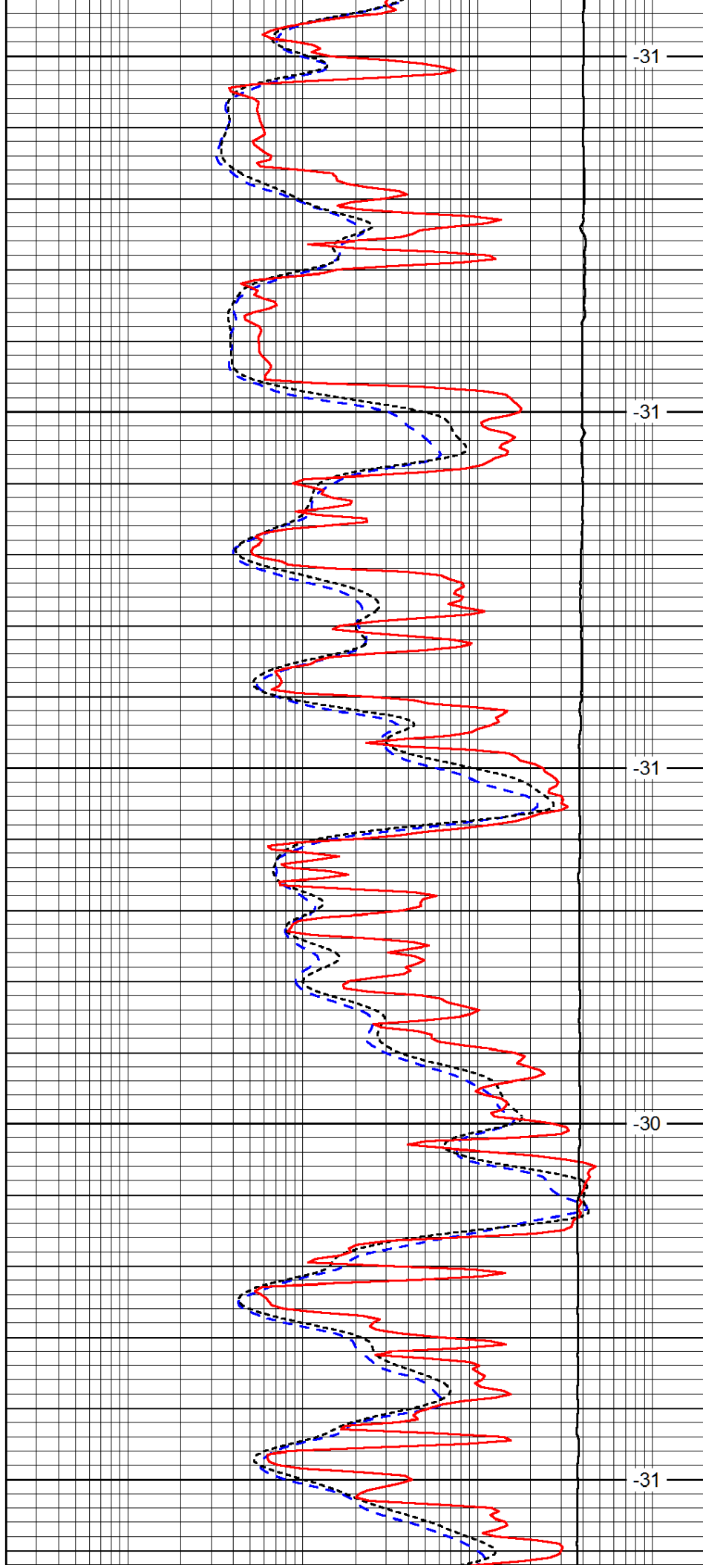
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3250

3300

3350

3400



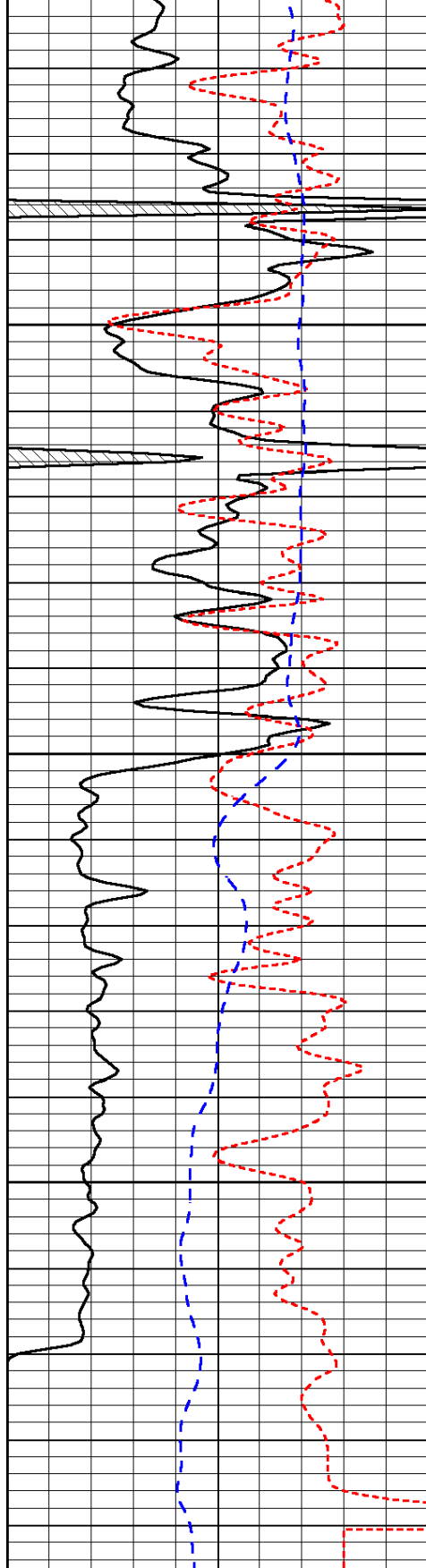
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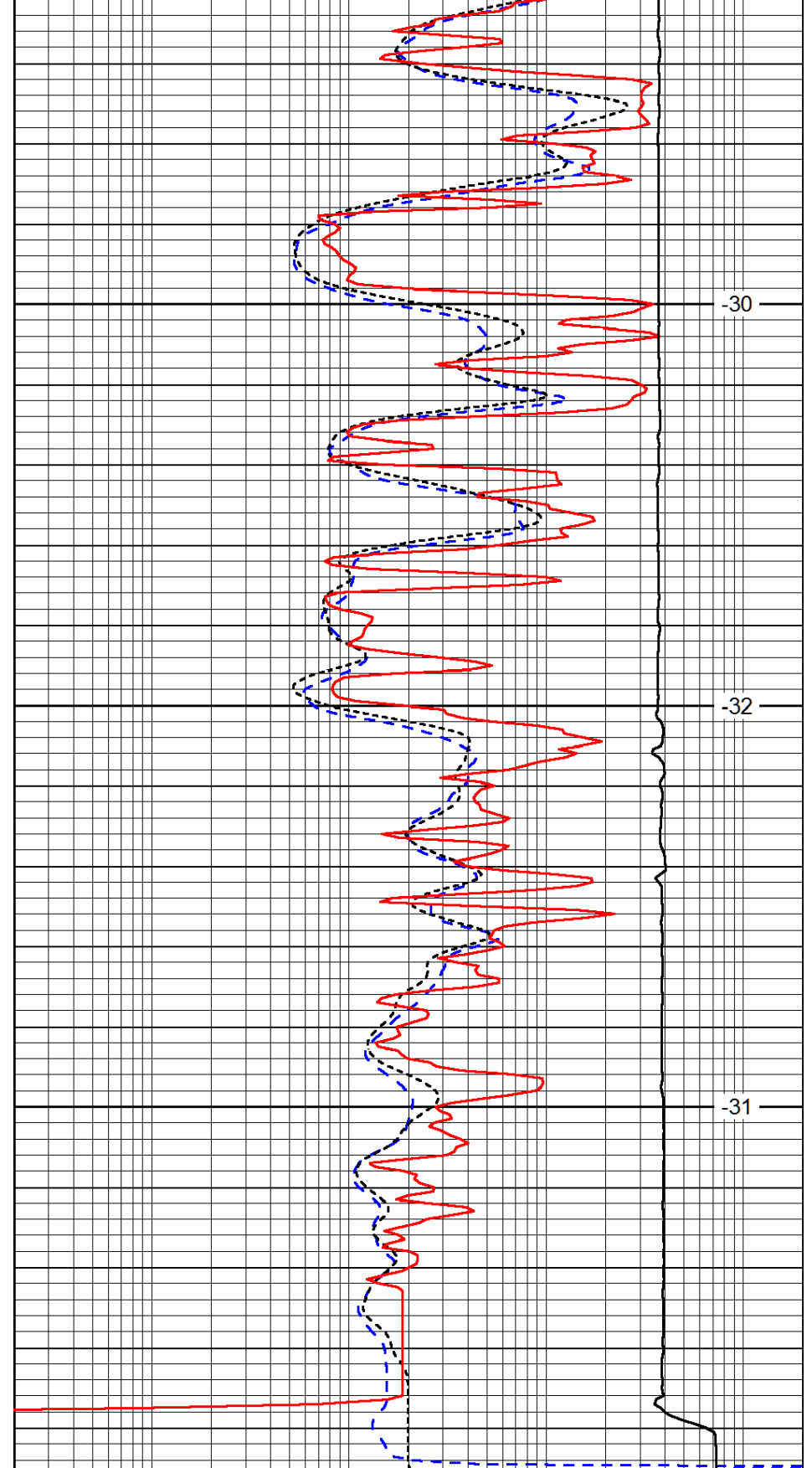


0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

3450

3500

3550



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)