



Dual Induction Log

Pioneer Energy Services

API No.

15-147-20,728-00-00

Company Bach Oil Production

Well Christensen #2

Field Woodruff

County Phillips State

Kansas

Location N2-S2-SW-NW
2000' FNL & 660' FWL

Other Services
CNL/CDL

Sec: 12 Twp: 1S Rge: 19W

Permanent Datum Ground Level Elevation 2027
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2032
D.F. 2027
G.L. 2027

Date 12/22/23

Run Number One

Depth Driller 3495

Depth Logger 3491

Bottom Logged Interval 3490

Top Log Interval 200

Casing Driller 8.625 @ 222

Casing Logger 219

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 500

Density / Viscosity 9.1 52

pH / Fluid Loss 10.5 5.2

Source of Sample Flowline

Rm @ Meas. Temp 1.20 @ 48

Rmf @ Meas. Temp .90 @ 48

Rmc @ Meas. Temp 1.62 @ 48

Source of Rmf / Rmc Charts

Rm @ BHT .52 @ 111

Operating Rig Time 3 1/2 Hours

Max Rec. Temp. F 111

Equipment Number 15

Location Hays

Recorded By J. Henrickson

Witnessed By Bob Peterson

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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

Phillipsburg Kansas
North to HWY 383, West to 500 Rd, 1 South, East Into

Database File: bach_christensen_2hd.db

Dataset Pathname: DIL/bachstk

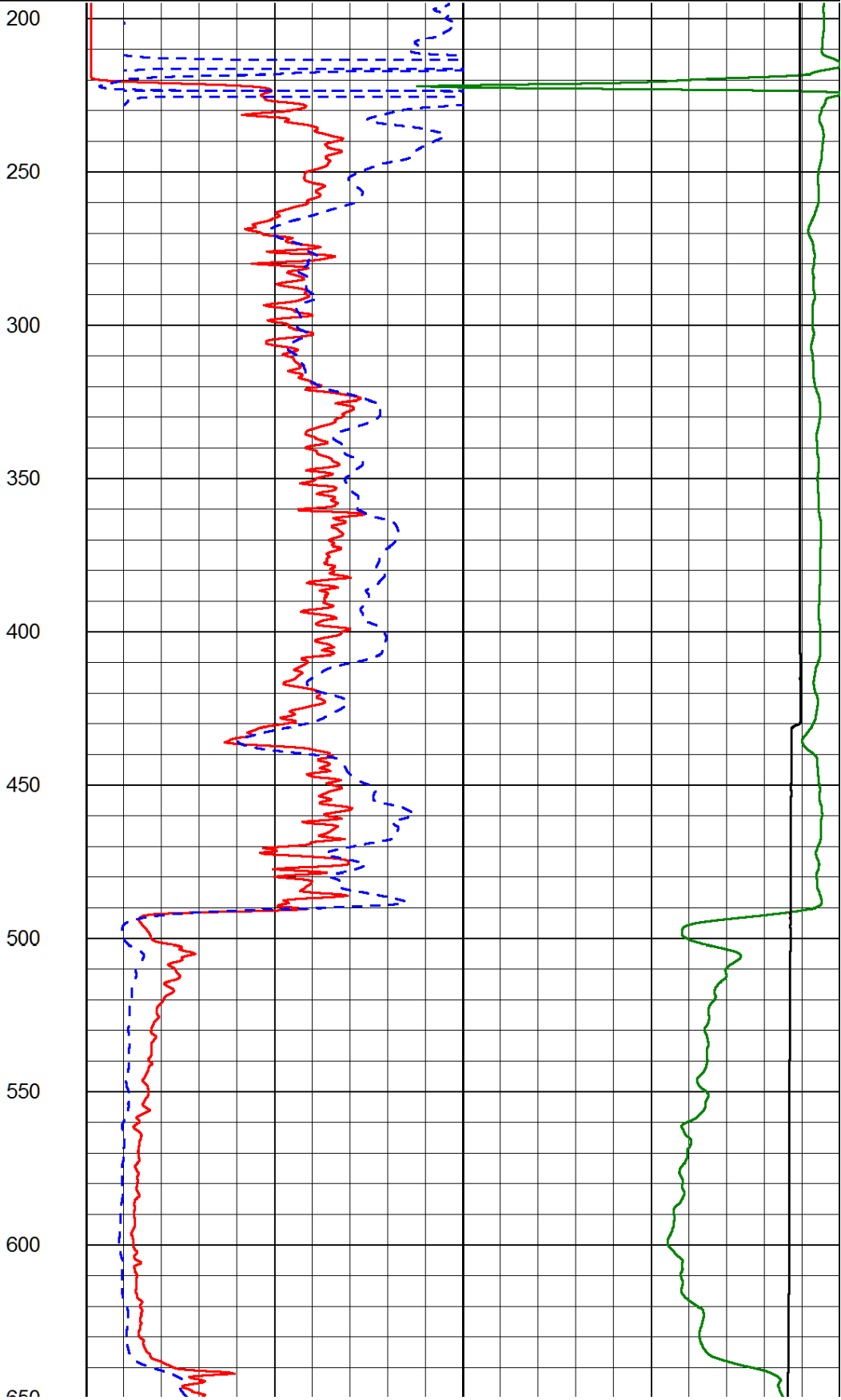
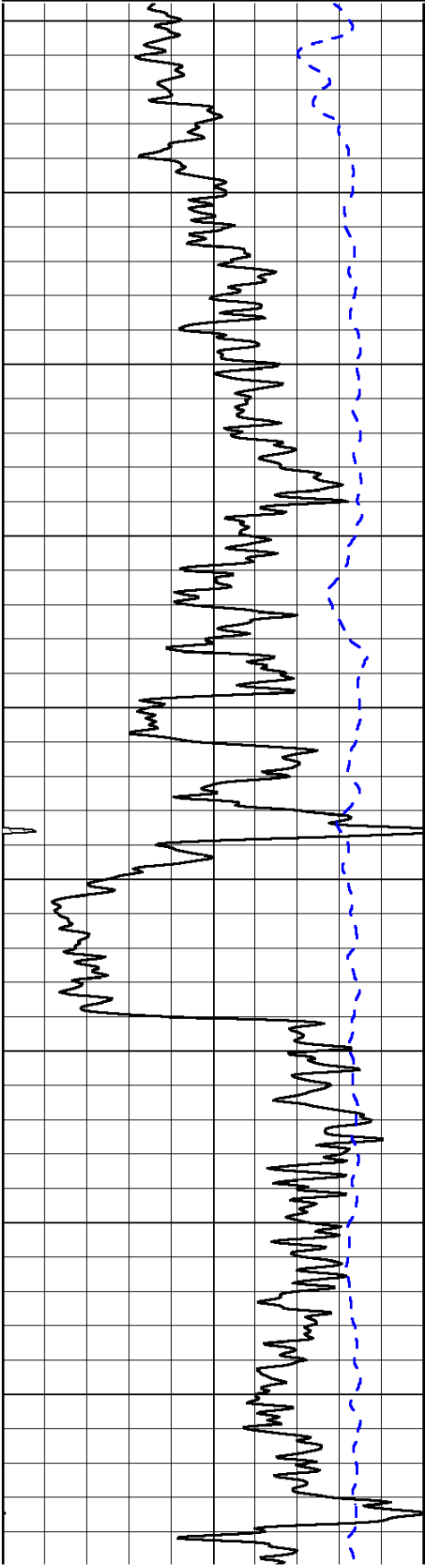
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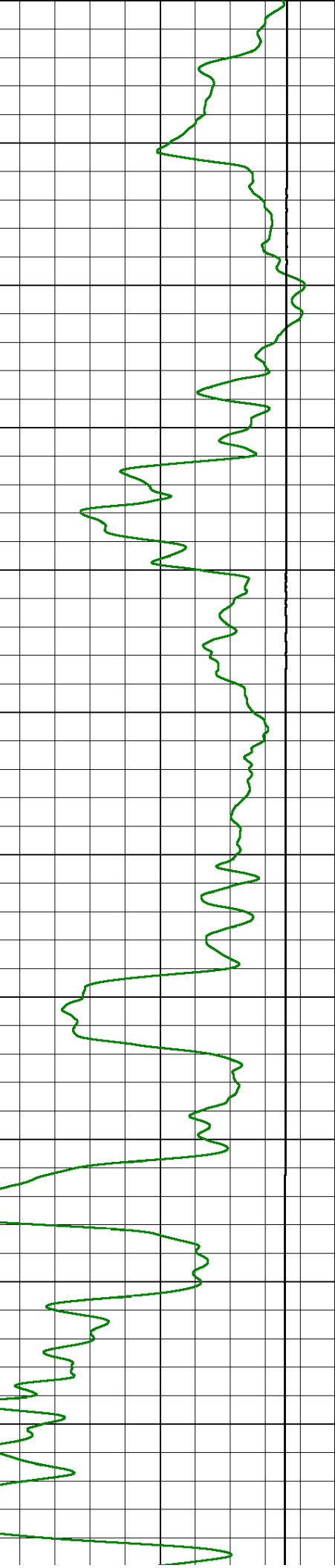
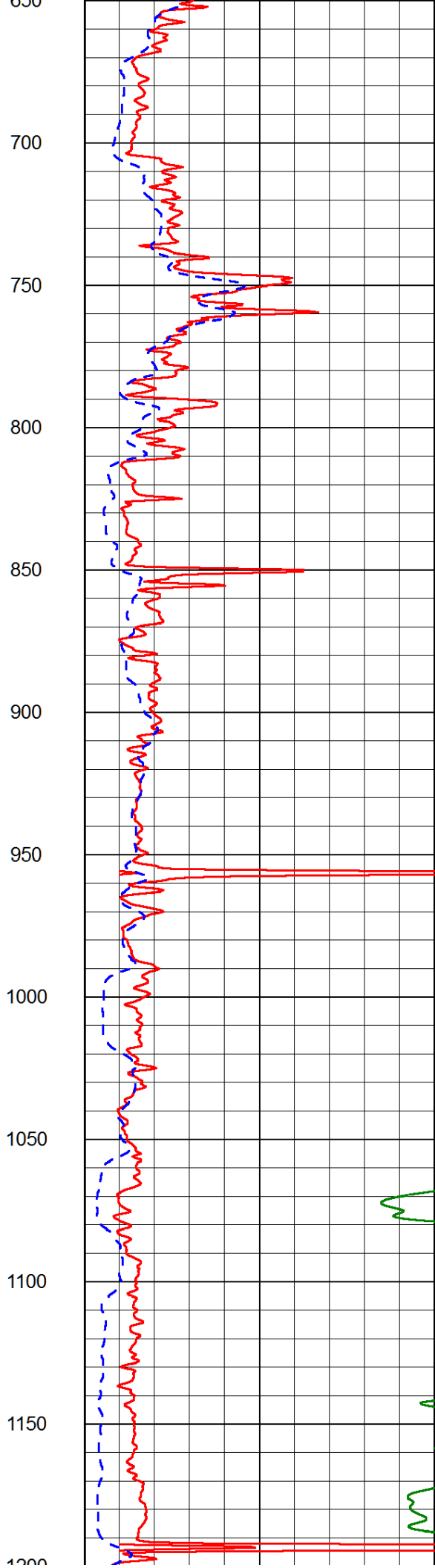
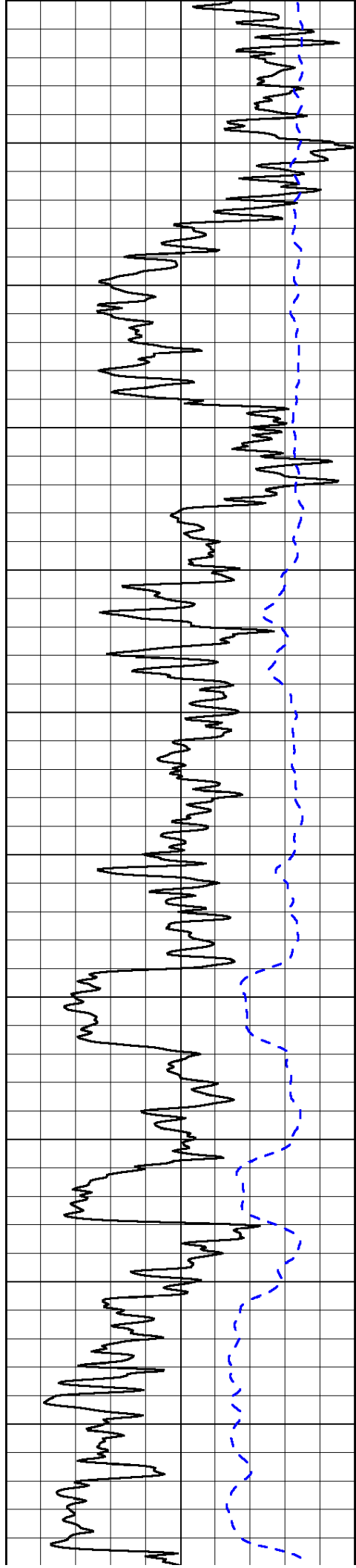
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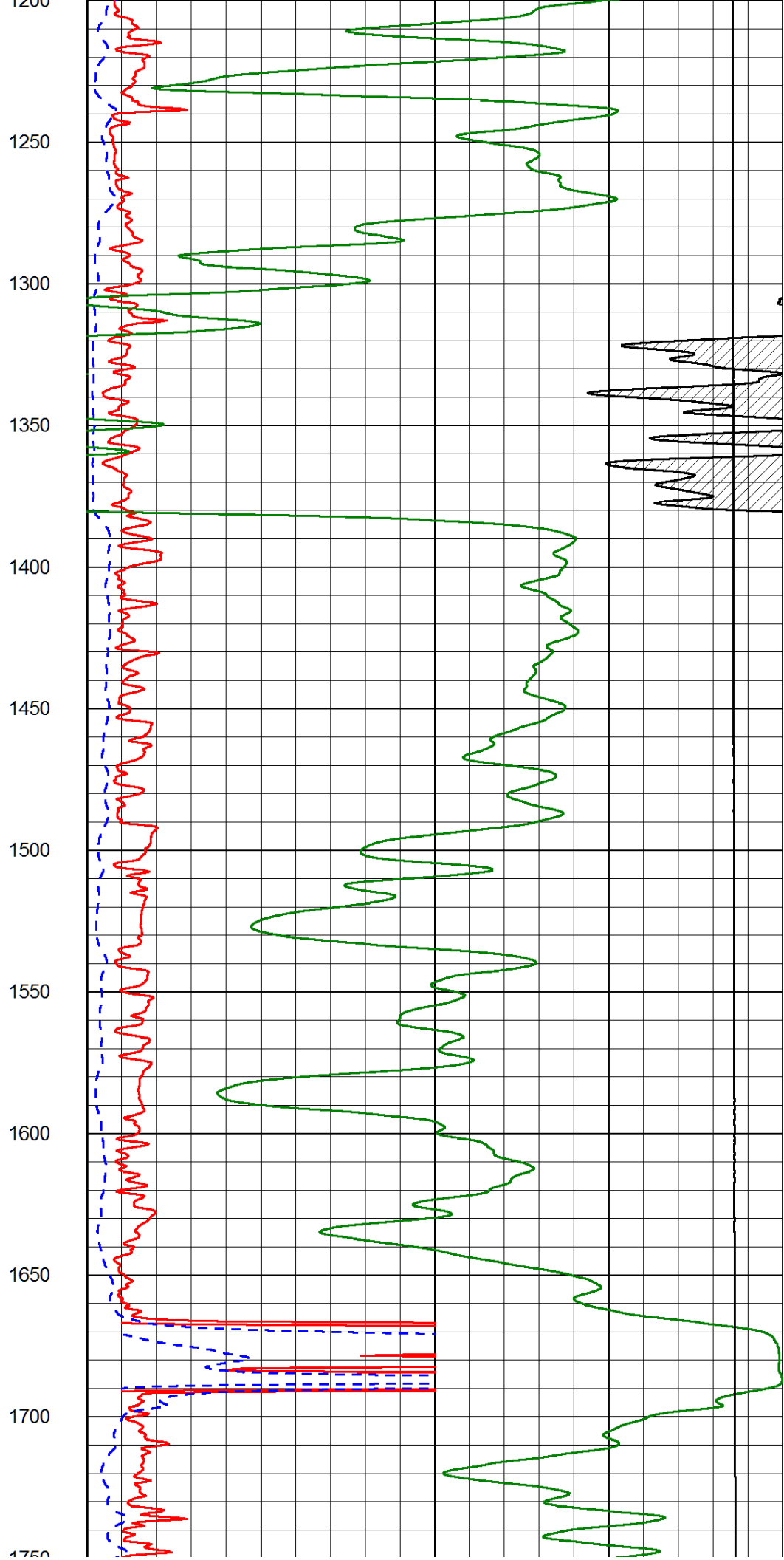
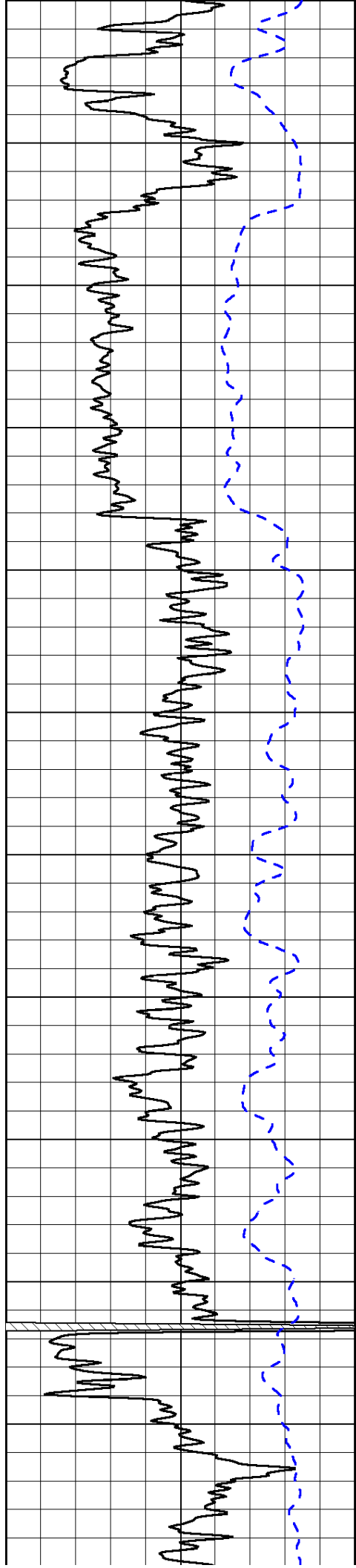
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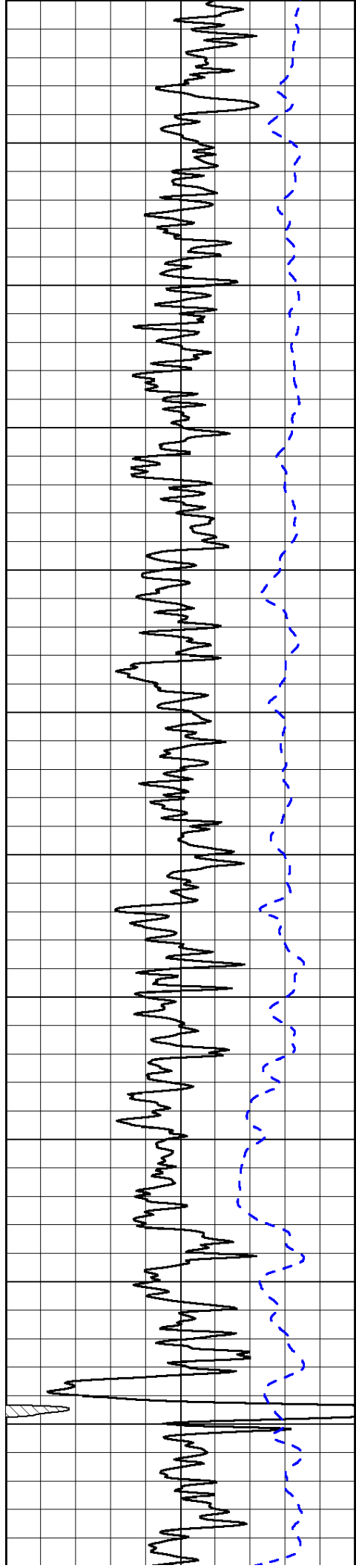
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-200	SP (mV)	0

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

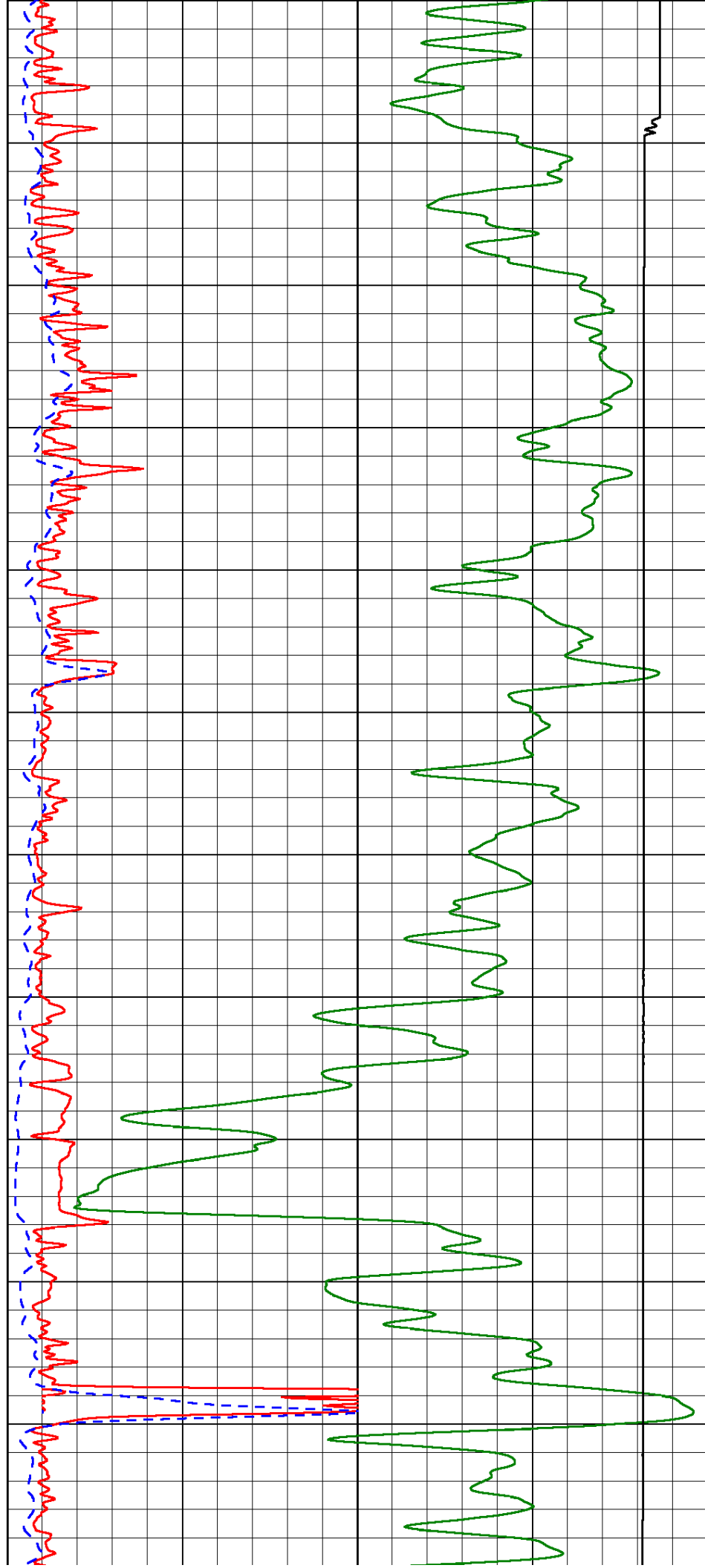


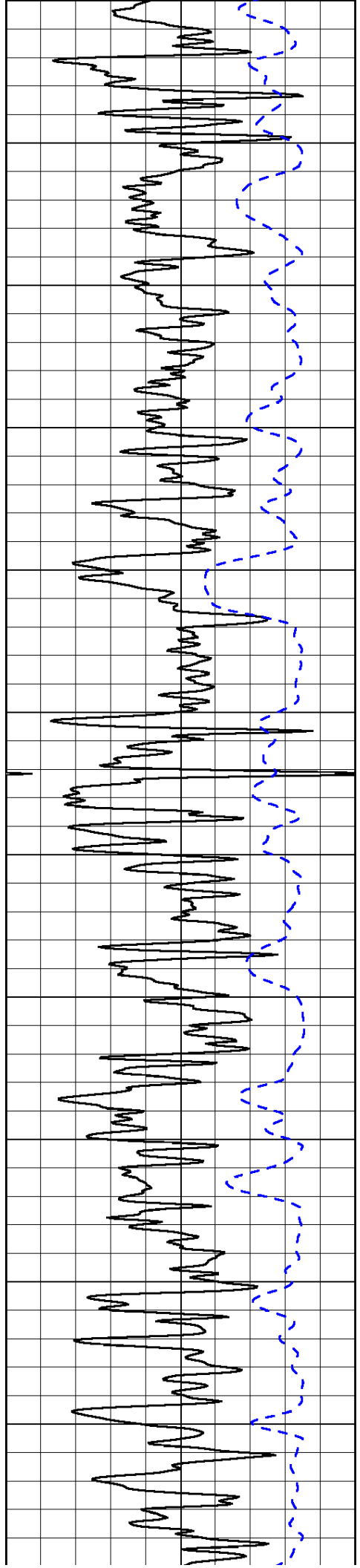
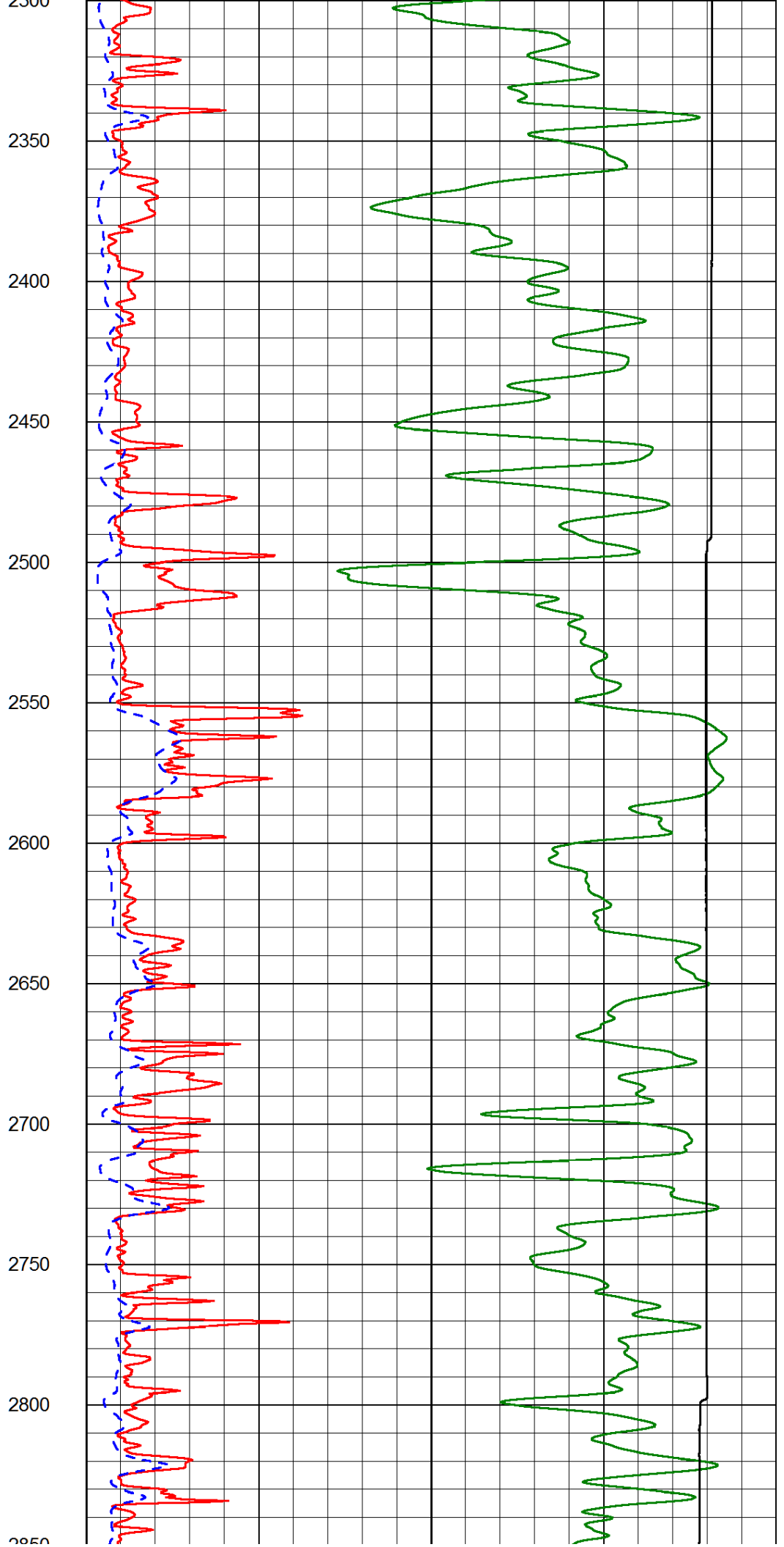


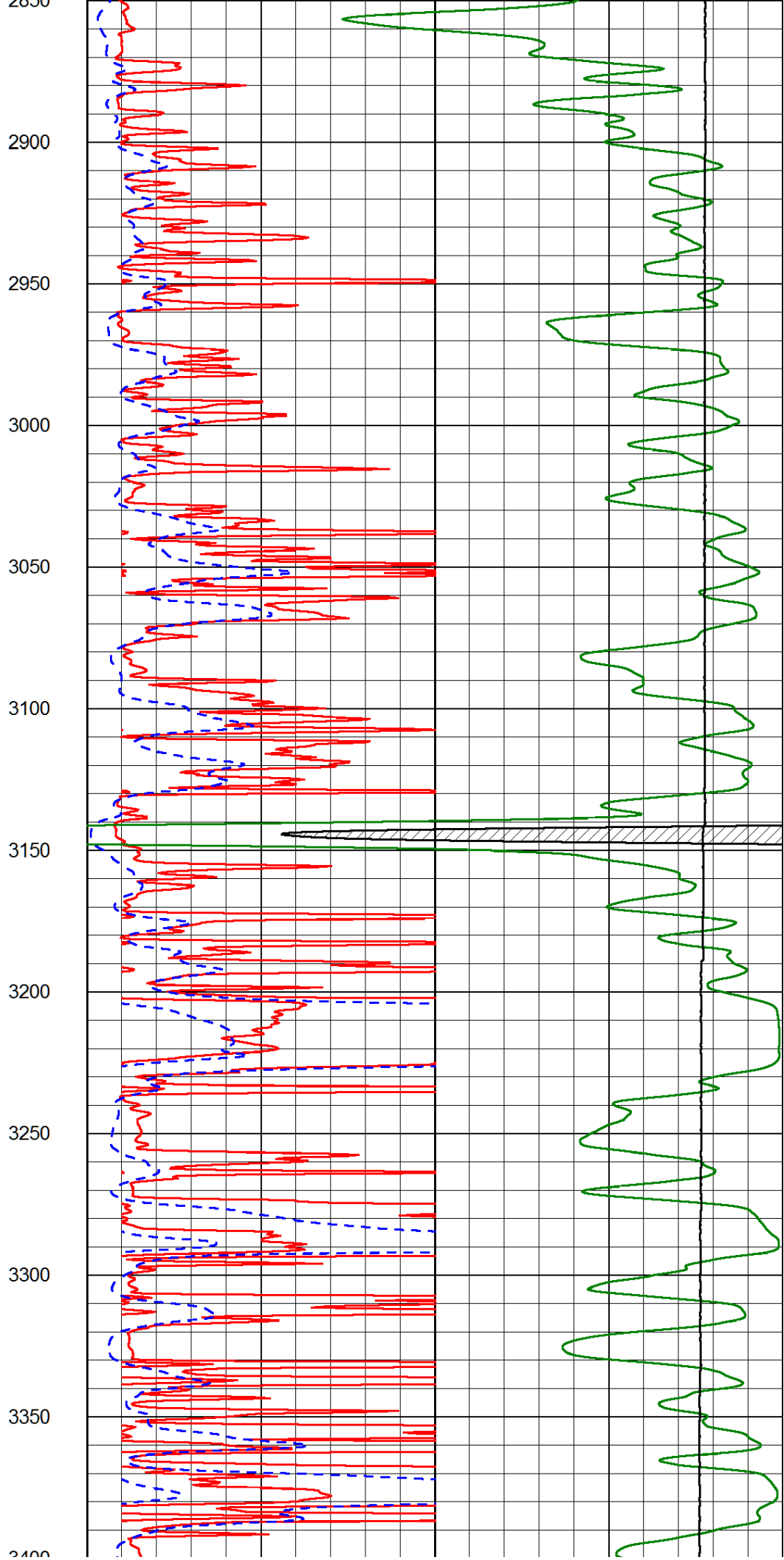
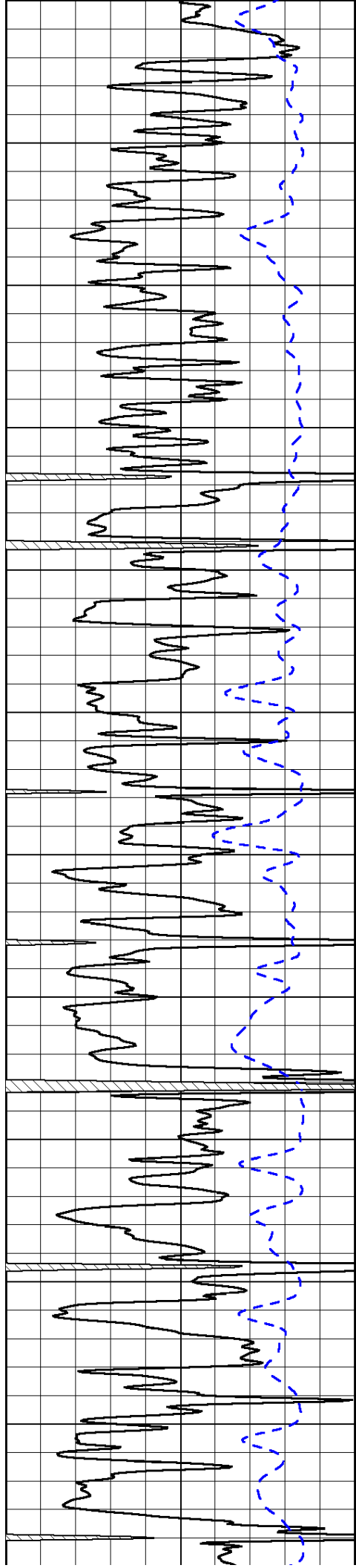


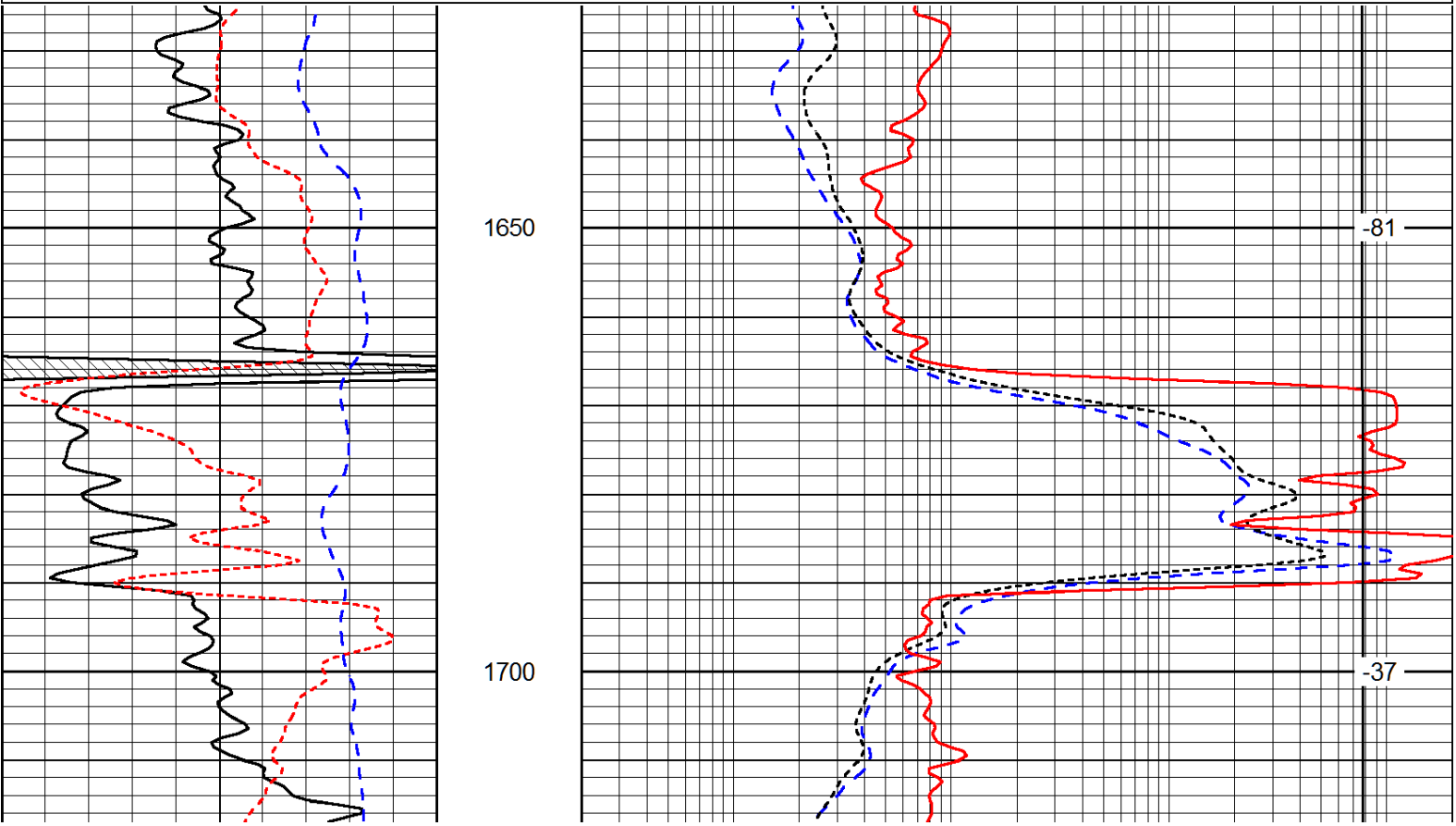
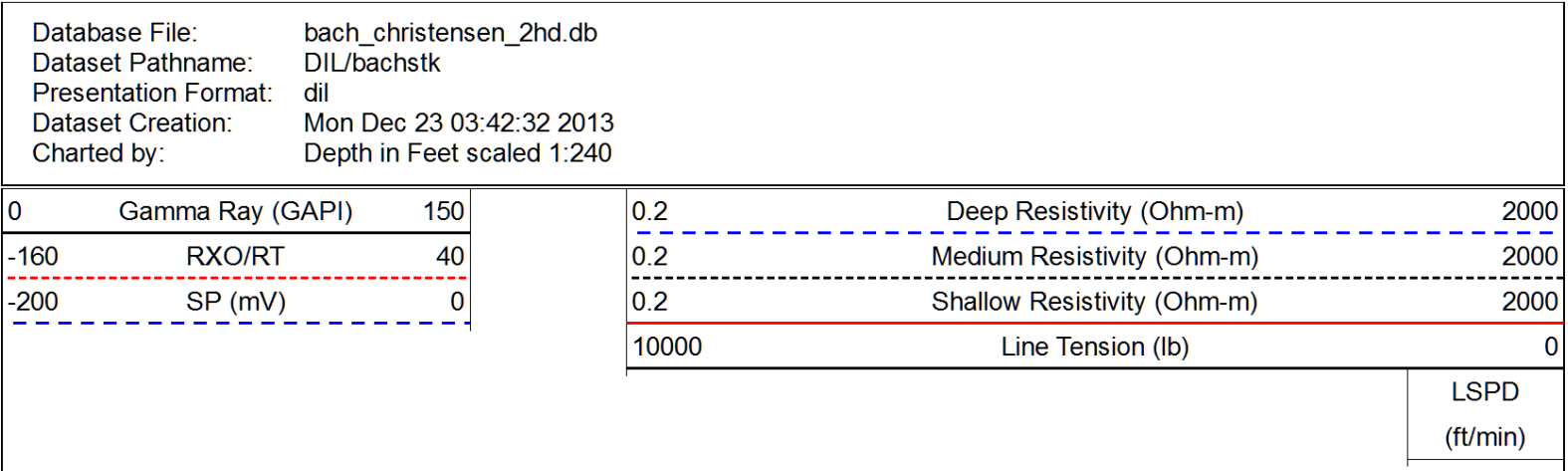
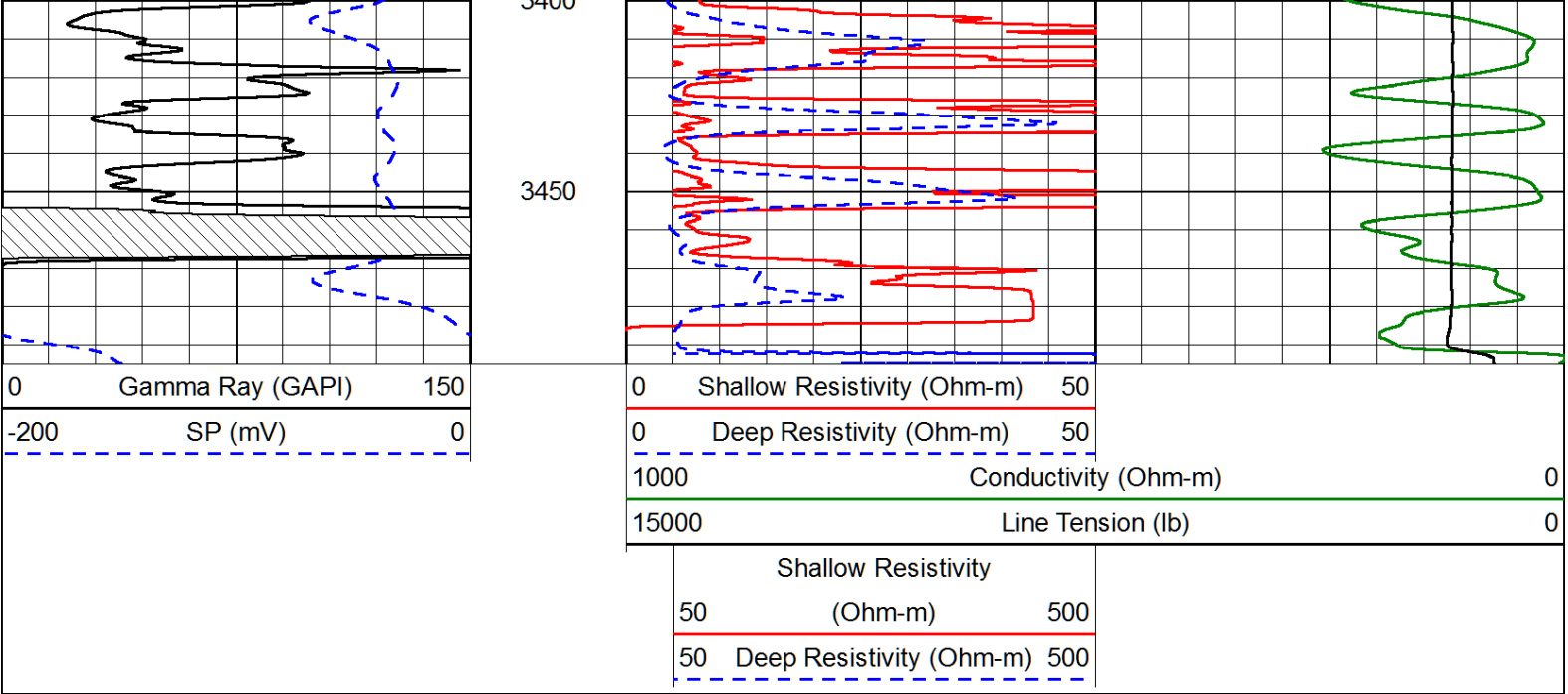


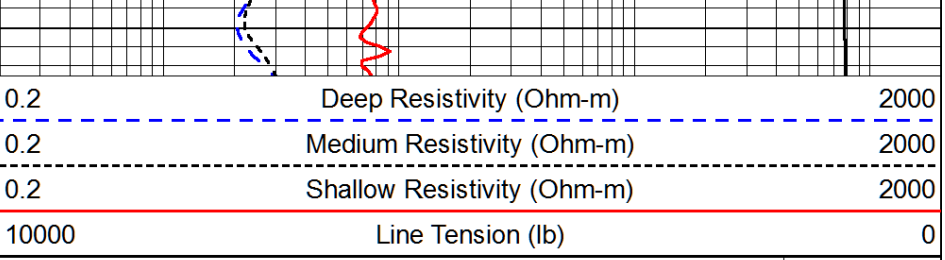
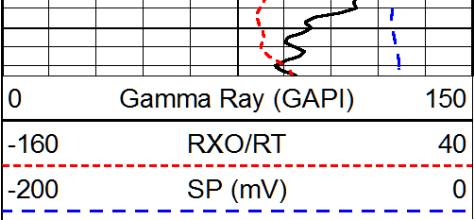
1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300





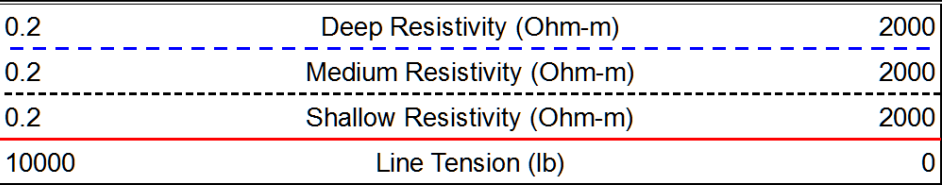
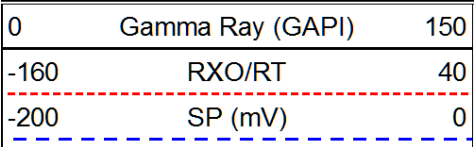




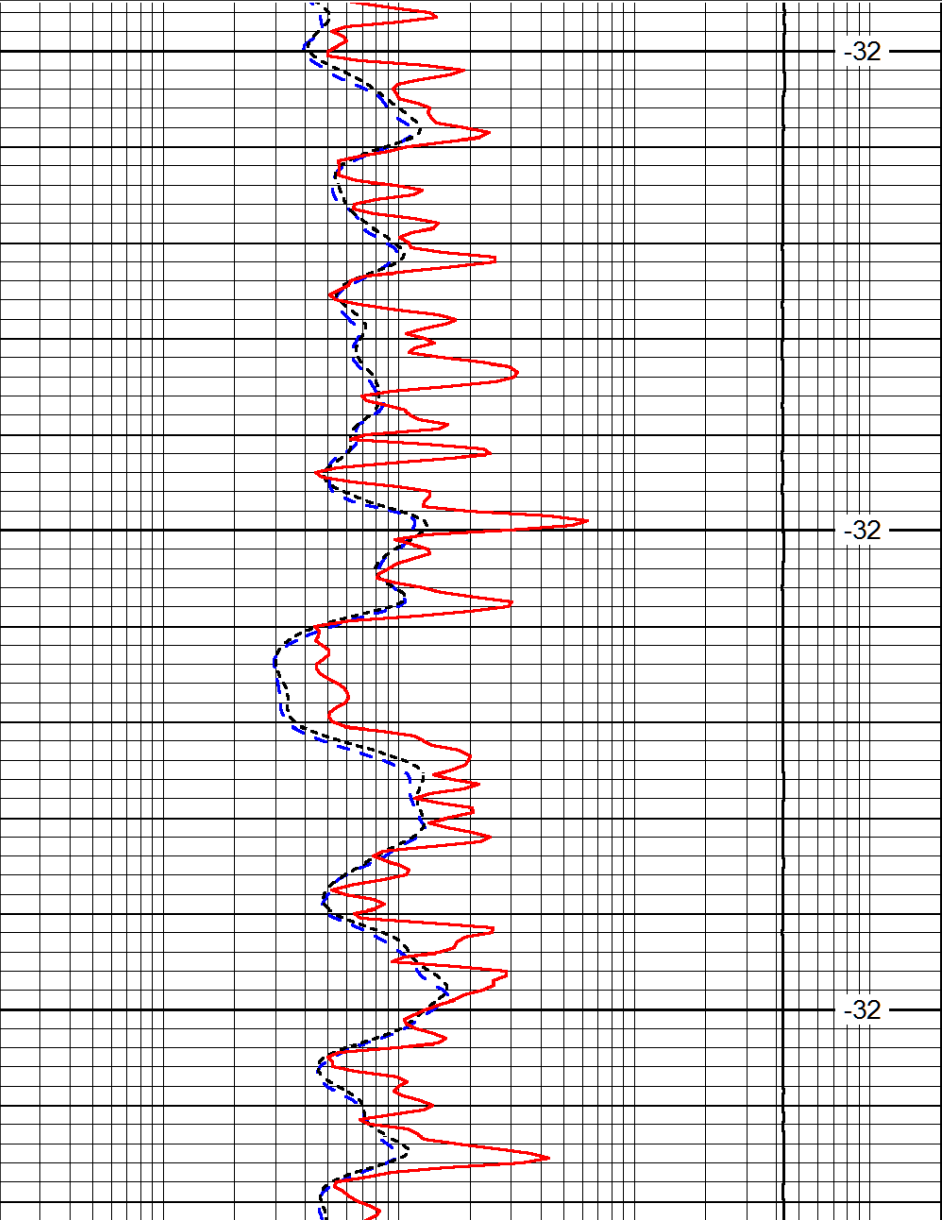
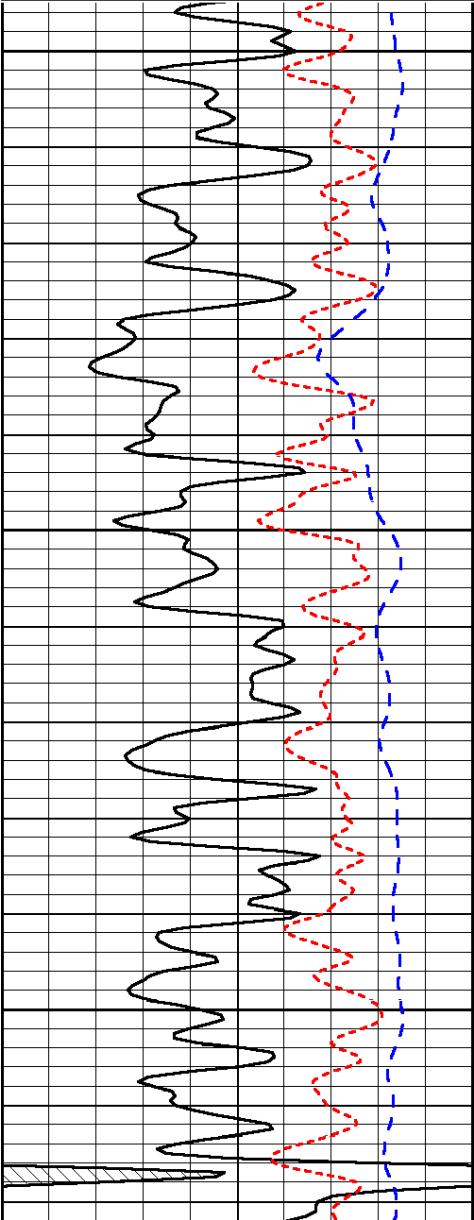


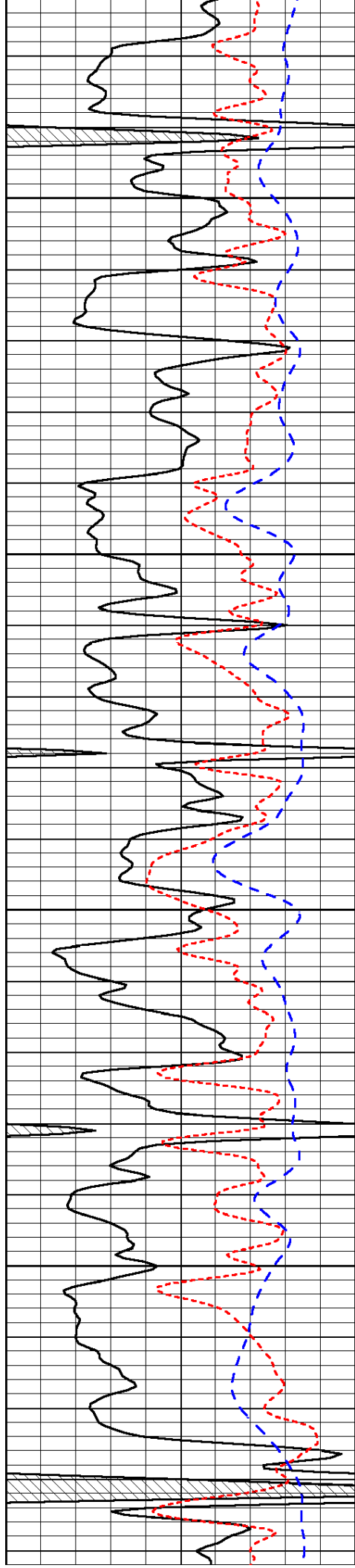
LSPD
(ft/min)

Database File: bach_christensen_2hd.db
Dataset Pathname: DIL/bachstk
Presentation Format: dil
Dataset Creation: Mon Dec 23 03:42:32 2013
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LSPD
(ft/min)



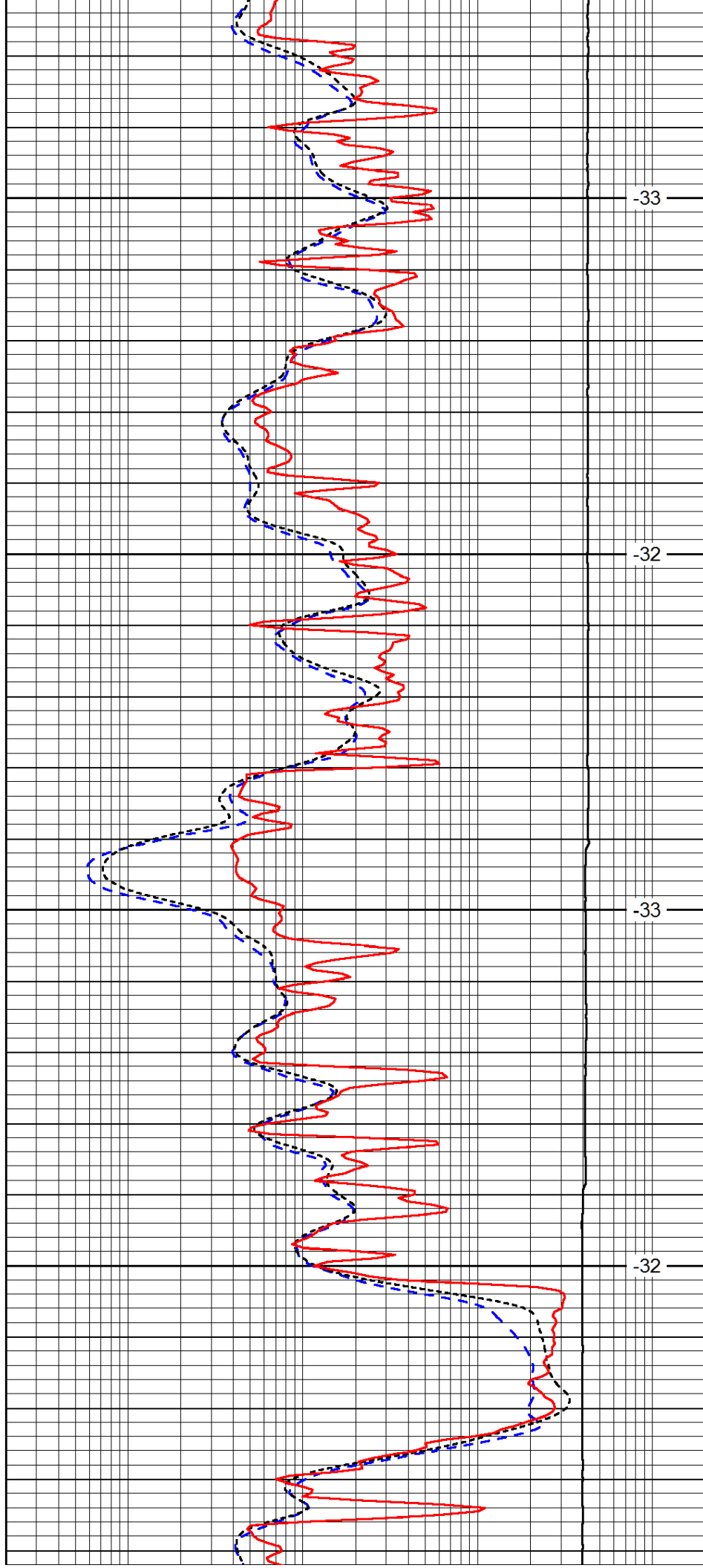


3050

3100

3150

3200

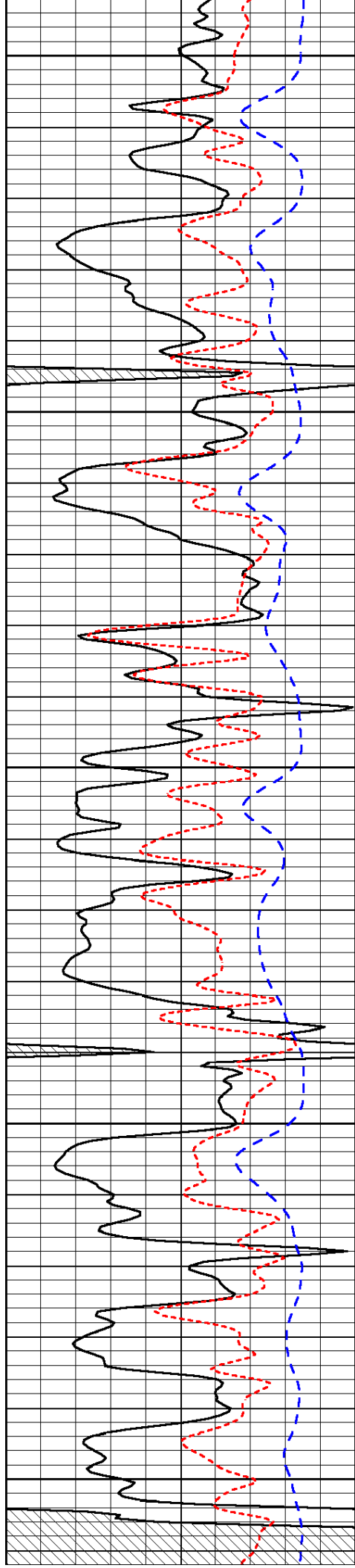


-33

-32

-33

-32



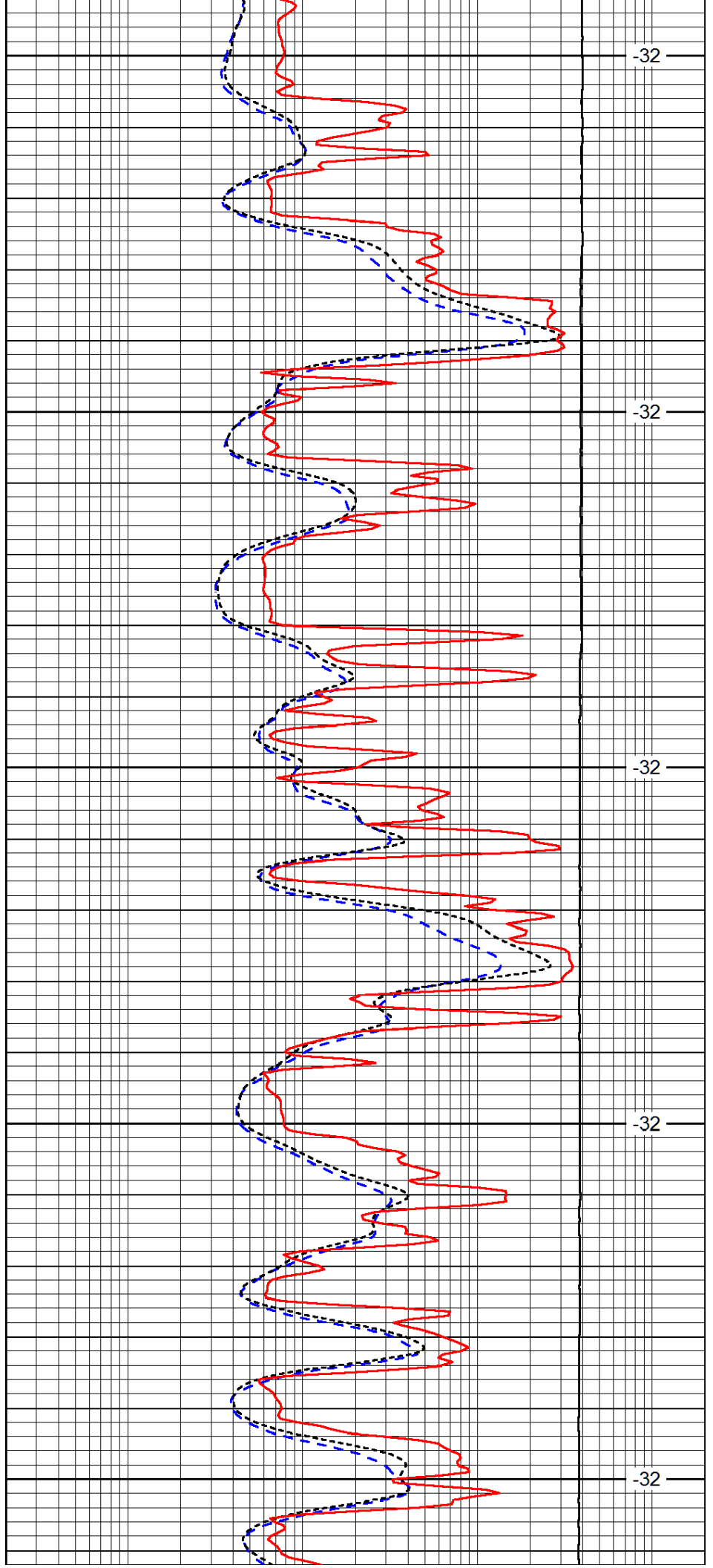
3250

3300

3350

3400

3450



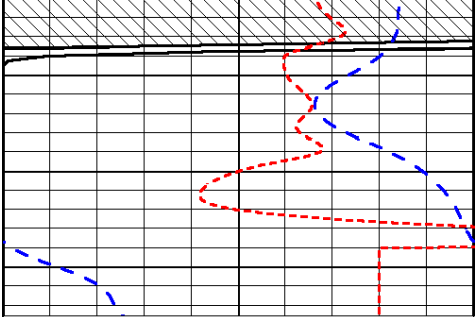
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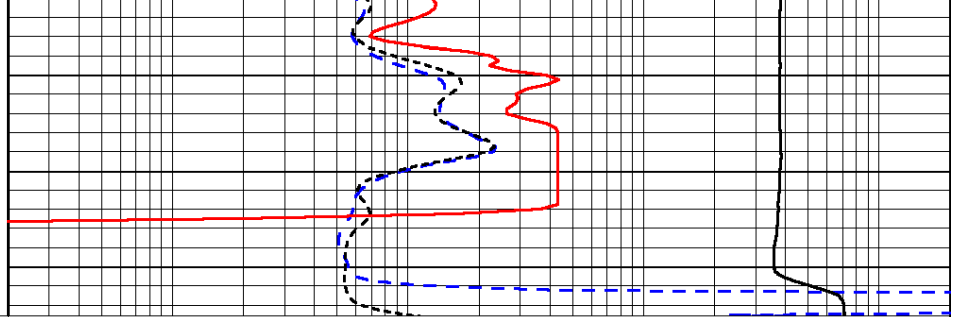
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-32

-32



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)