



Dual Induction Log

Pioneer Energy Services

API No.

15-193-20,924-00-00

Company LB Exploration, Inc.

Well Beaver Valley Supply 4 #1

Field Wildcat

County Thomas State

Kansas

Location

SE SW SE NW
2530' FNL & 1890' FWL

Other Services
CNL/CDL
MEI/BHCS

Sec: 4 Twp: 10S Rge: 32W

Permanent Datum Ground Level Elevation 3092
Log Measured From Kelly Bushing 13 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 3105
D.F. 3092
G.L. 3092

Date 7/8/2014

Run Number One

Depth Driller 4820

Depth Logger 4818

Bottom Logged Interval 4817

Top Log Interval 300

Casing Driller 8.625 @ 340

Casing Logger 348

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 750

Density / Viscosity 9.4 54

pH / Fluid Loss 10.5 8.4

Source of Sample Flowline

Rm @ Meas. Temp 0.80 @ 86

Rmf @ Meas. Temp 0.60 @ 86

Rmc @ Meas. Temp 1.08 @ 86

Source of Rmf / Rmc Charts

Rm @ BHT 0.55 @ 124

Operating Rig Time 5 Hours

Max Rec. Temp. F 124

Equipment Number 15

Location Hays

Recorded By D. Kerr

Witnessed By Steven Petermann

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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.

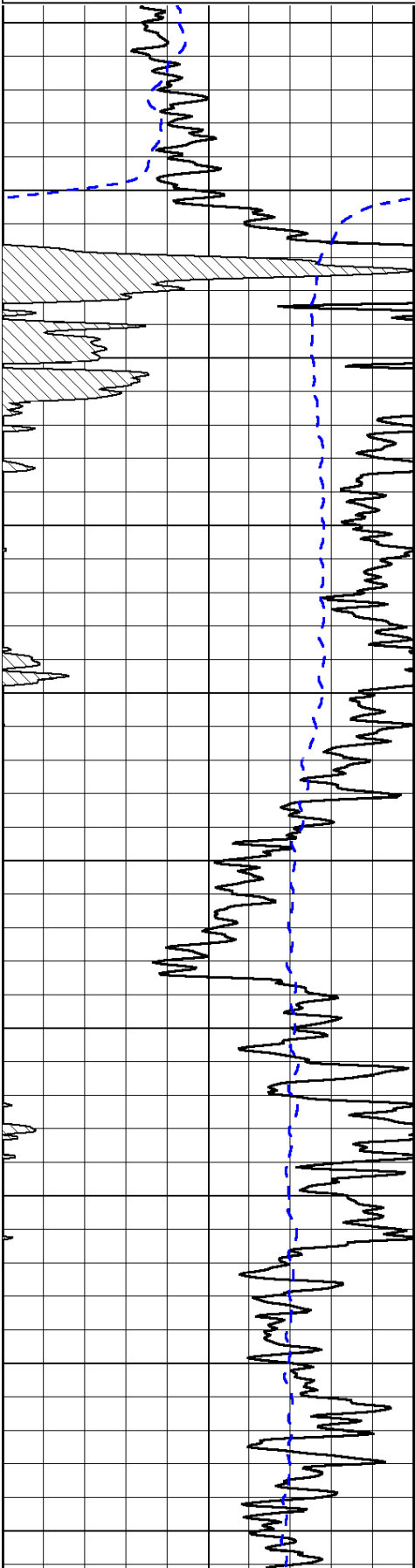
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

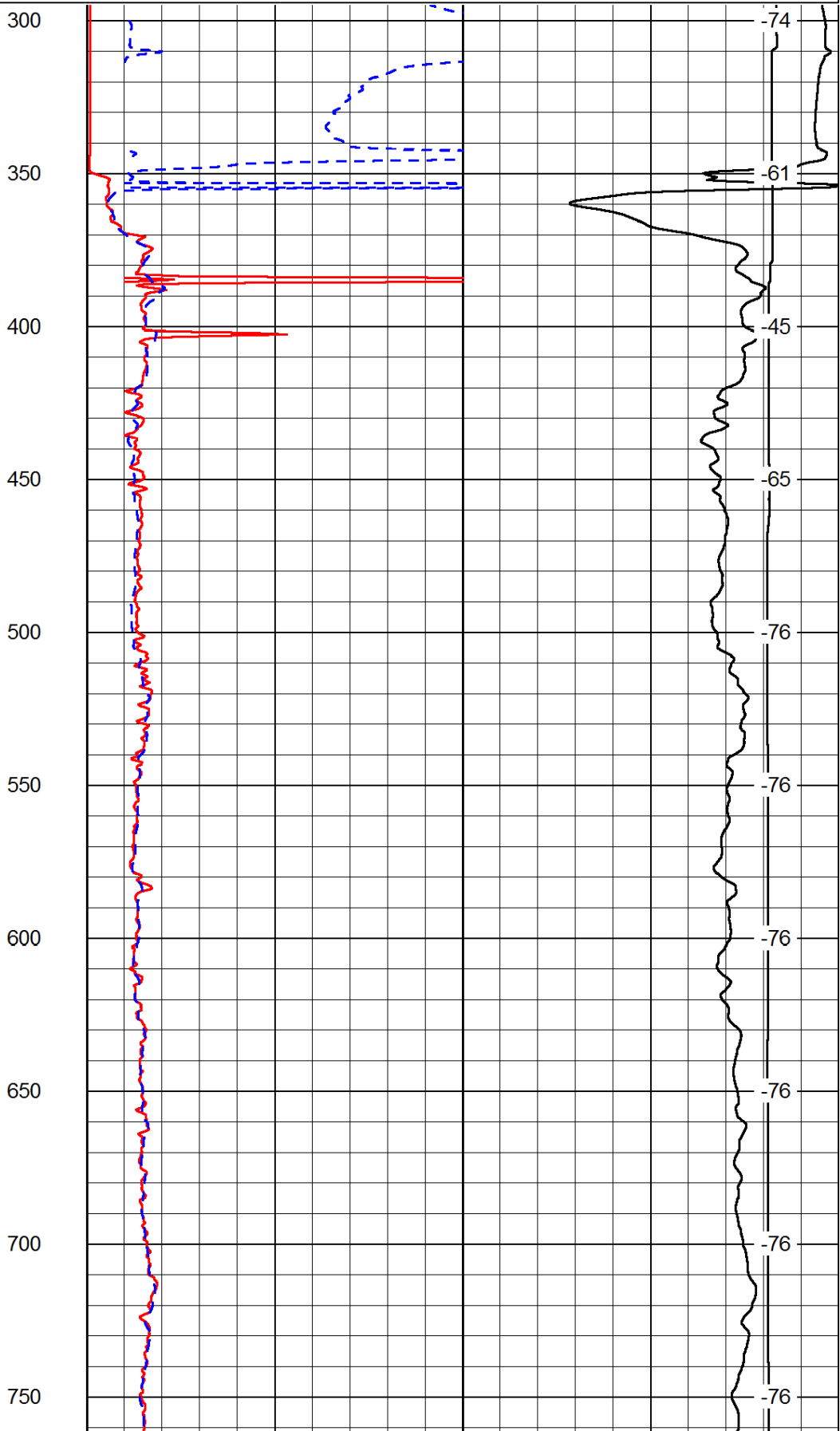
Oakley KS, Exit 70, 1 1/2 North to F RD,
3 West to 27.5 RD, 3/4 North West Into

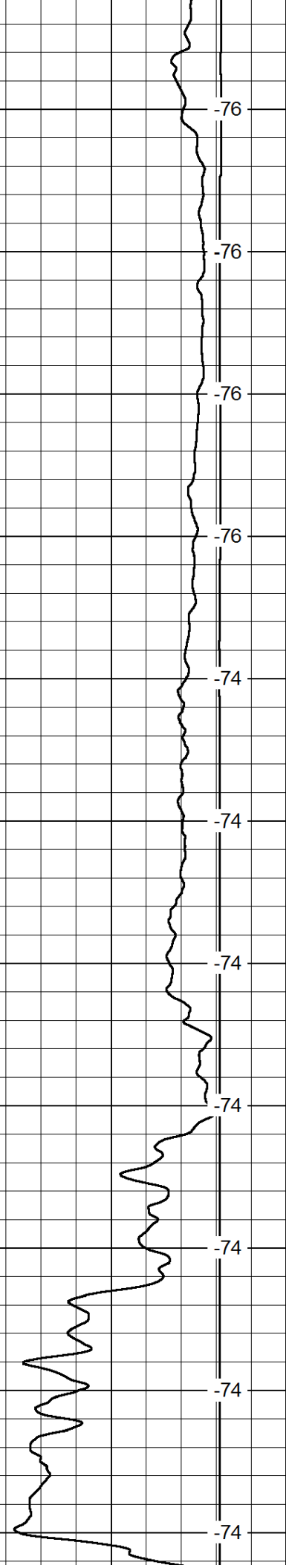
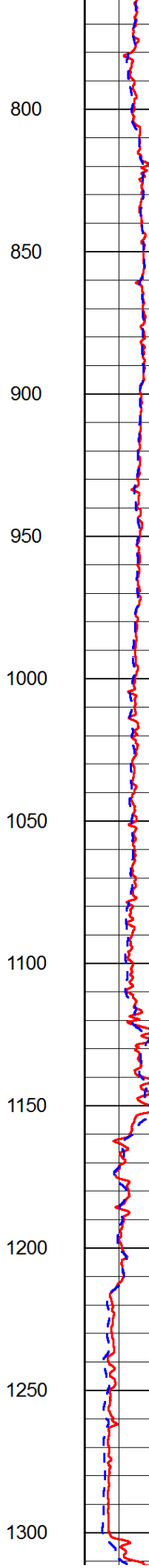
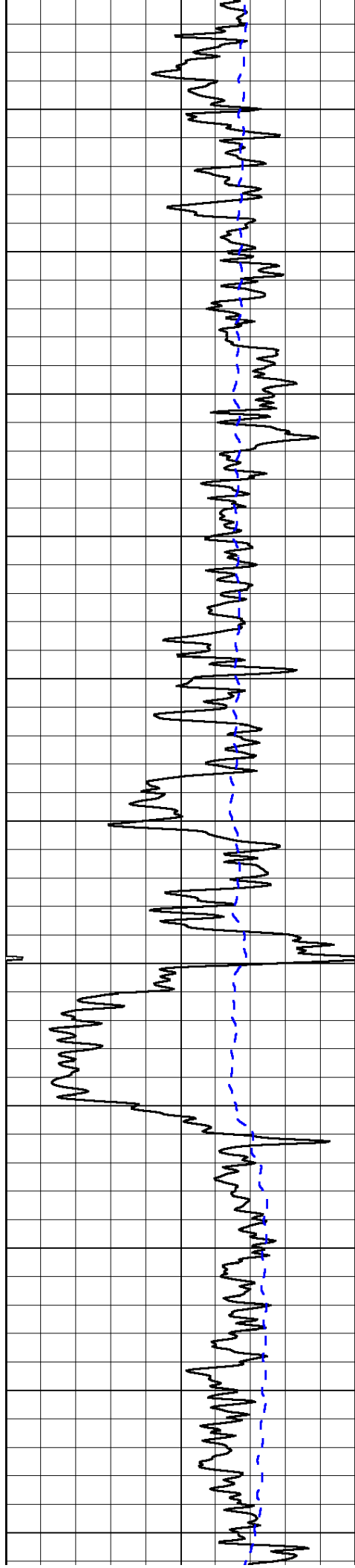
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Dataset Creation: Tue Jul 08 04:31:28 2014
Charted by: Depth in Feet scaled 1:600

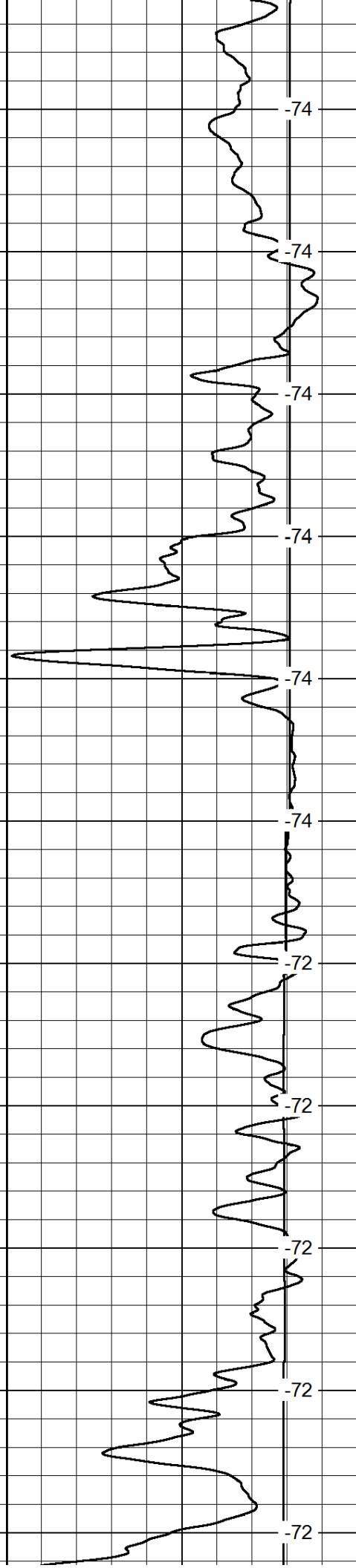
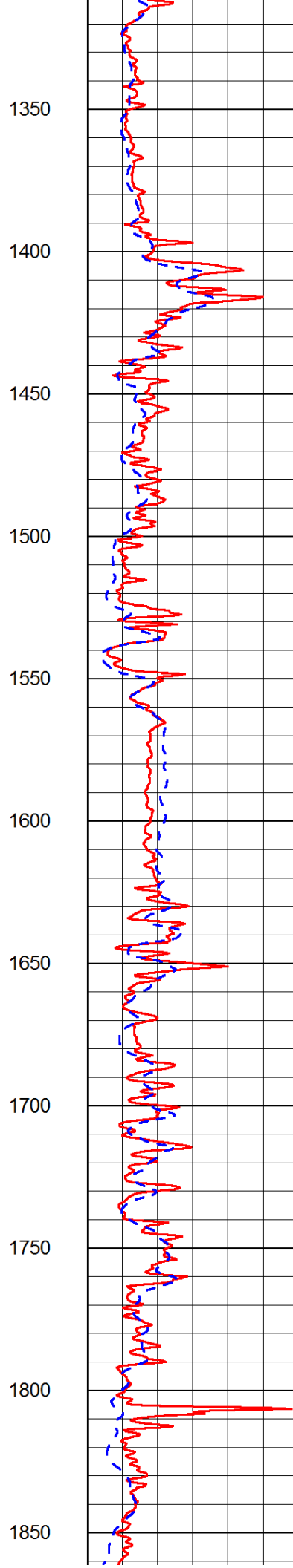
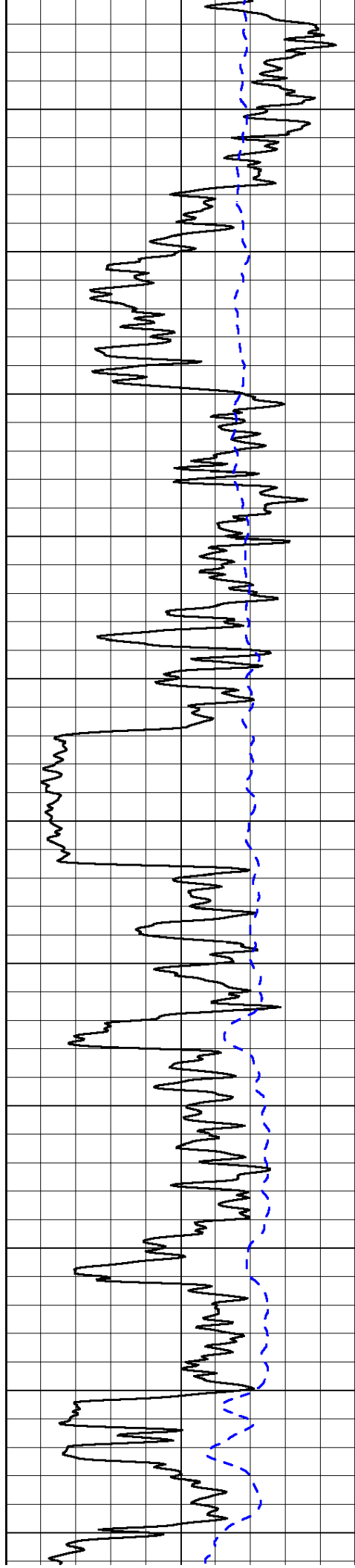
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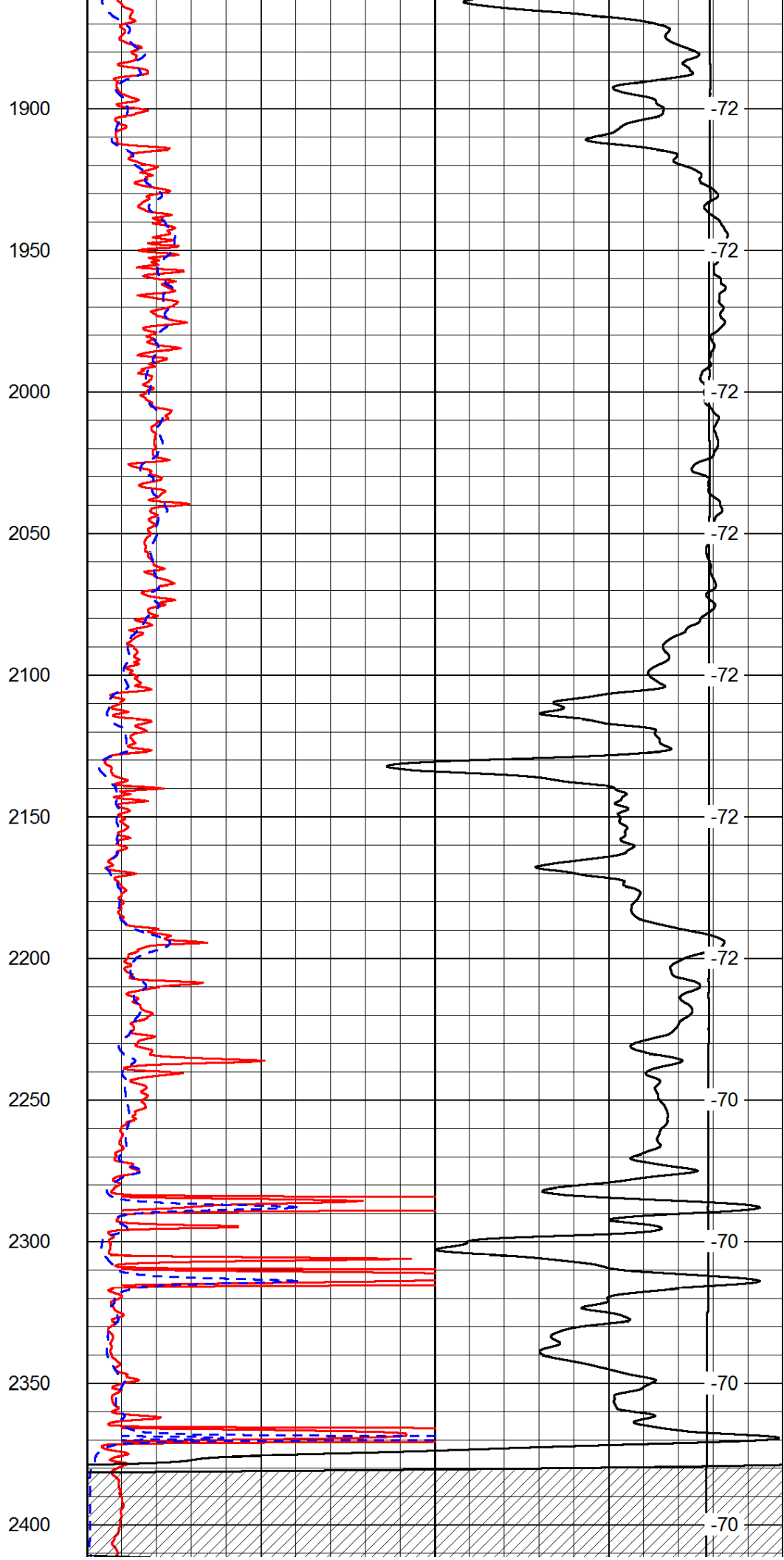
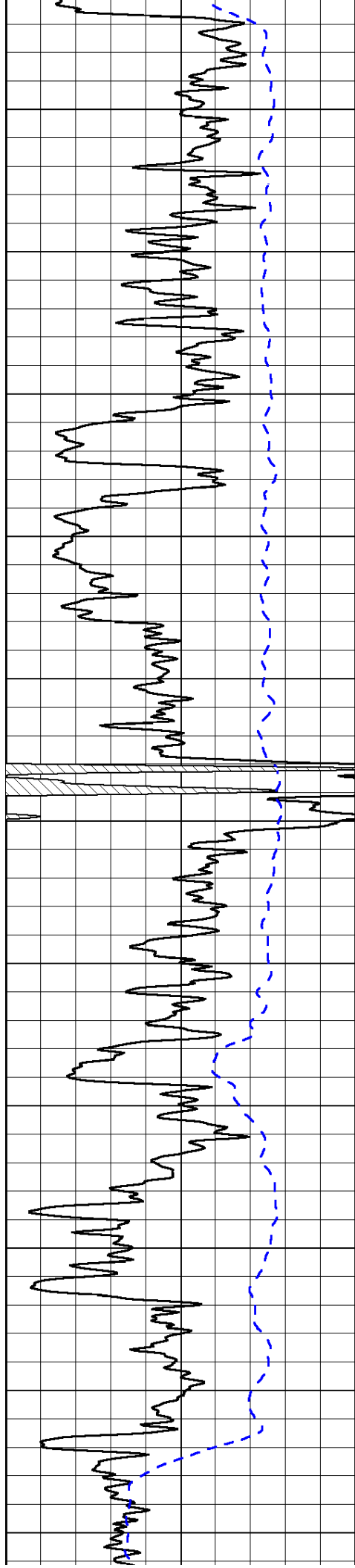


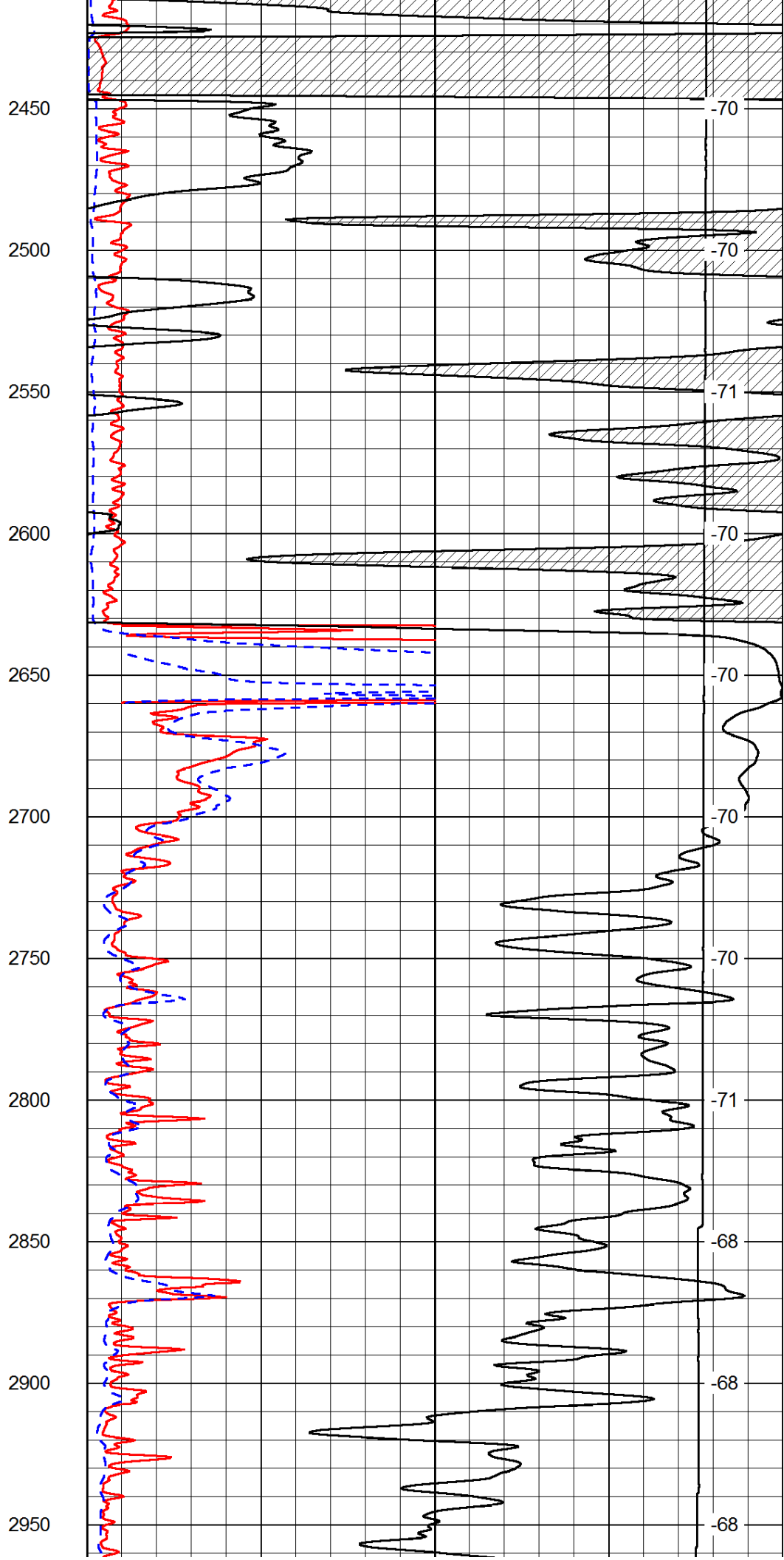
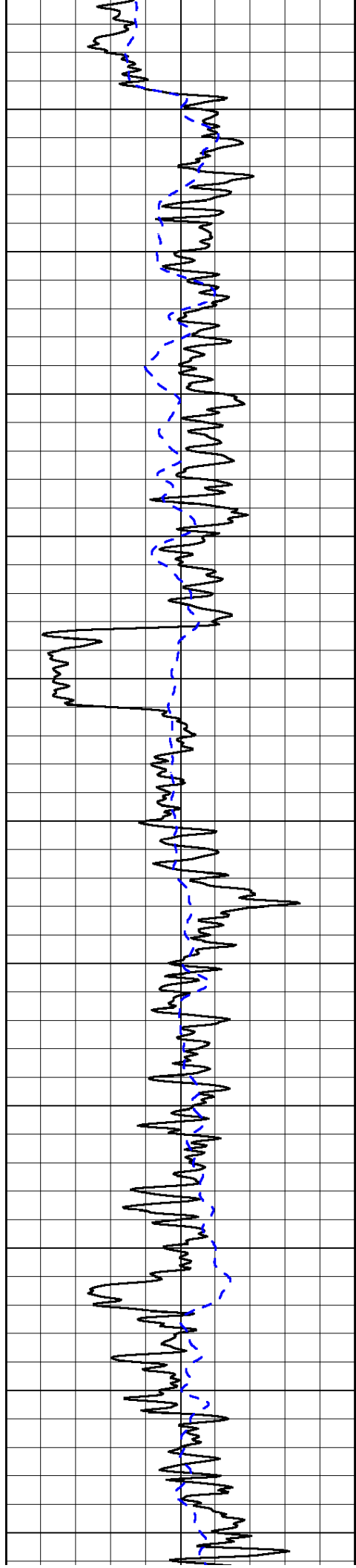
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0	Deep Resistivity	50	
1000	Conductivity		0
15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

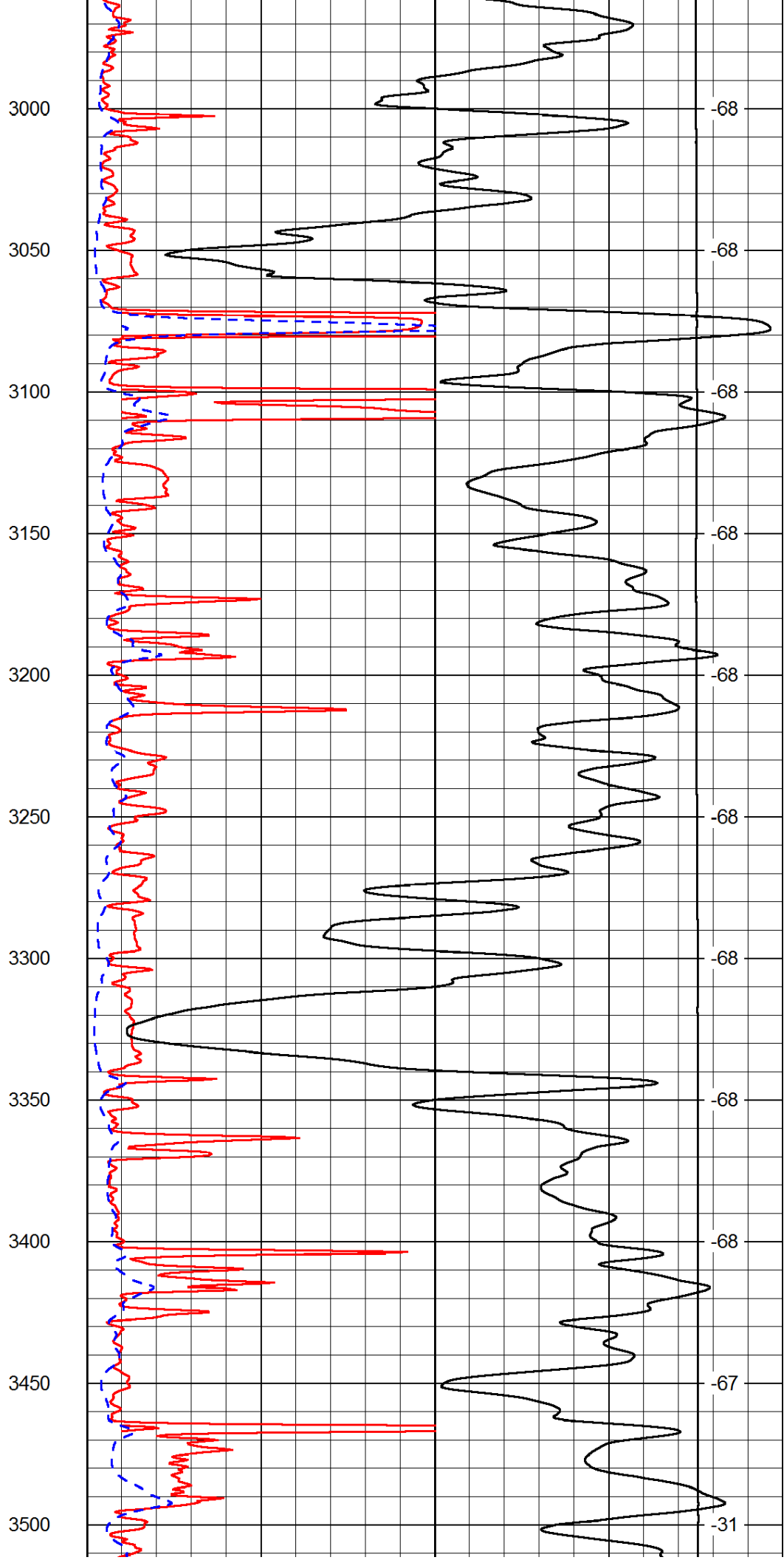
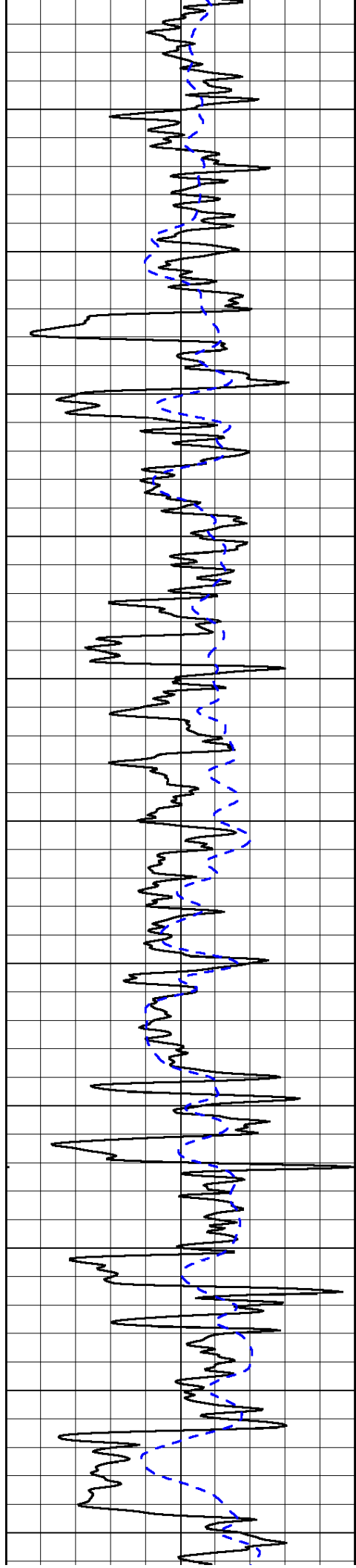


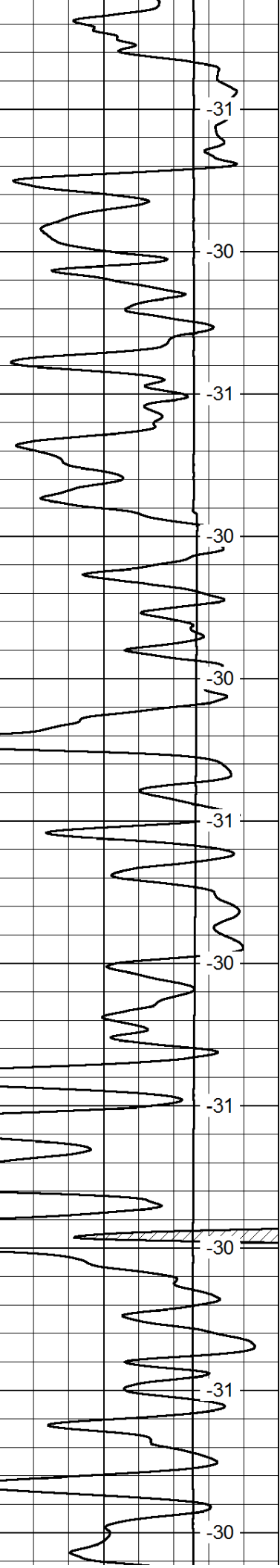
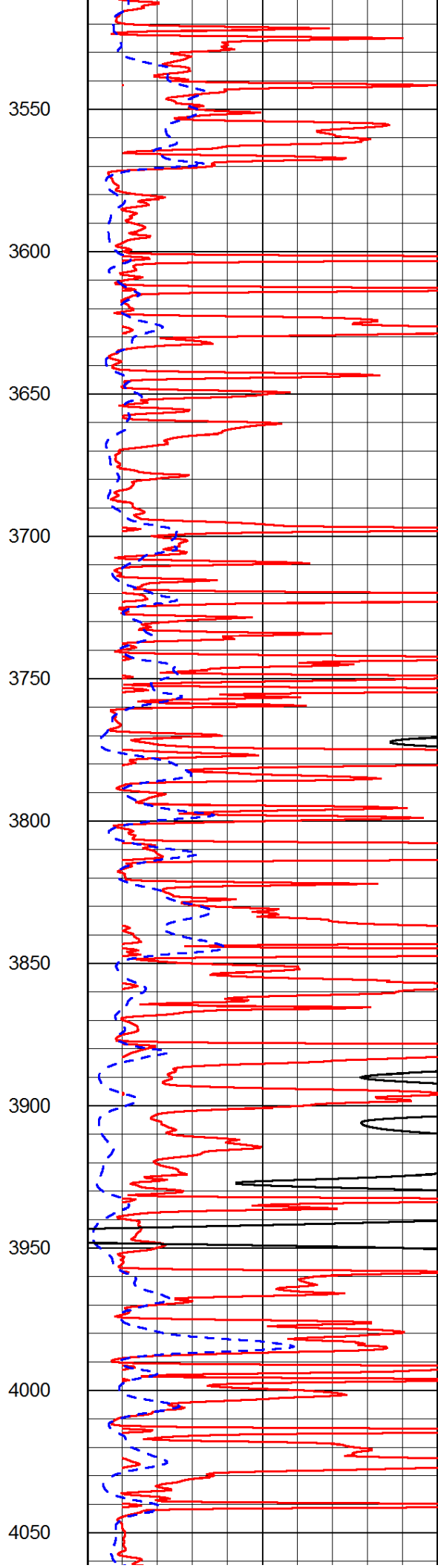
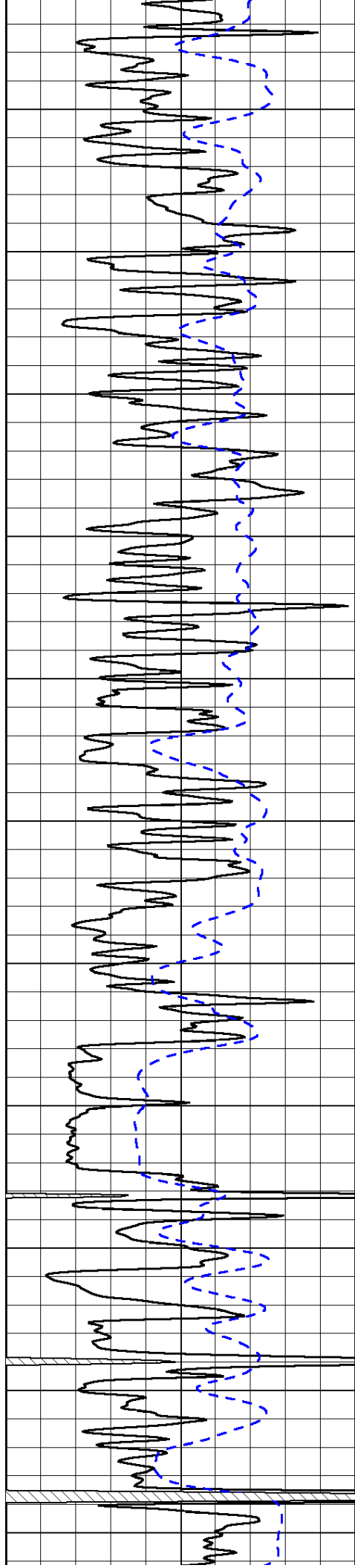


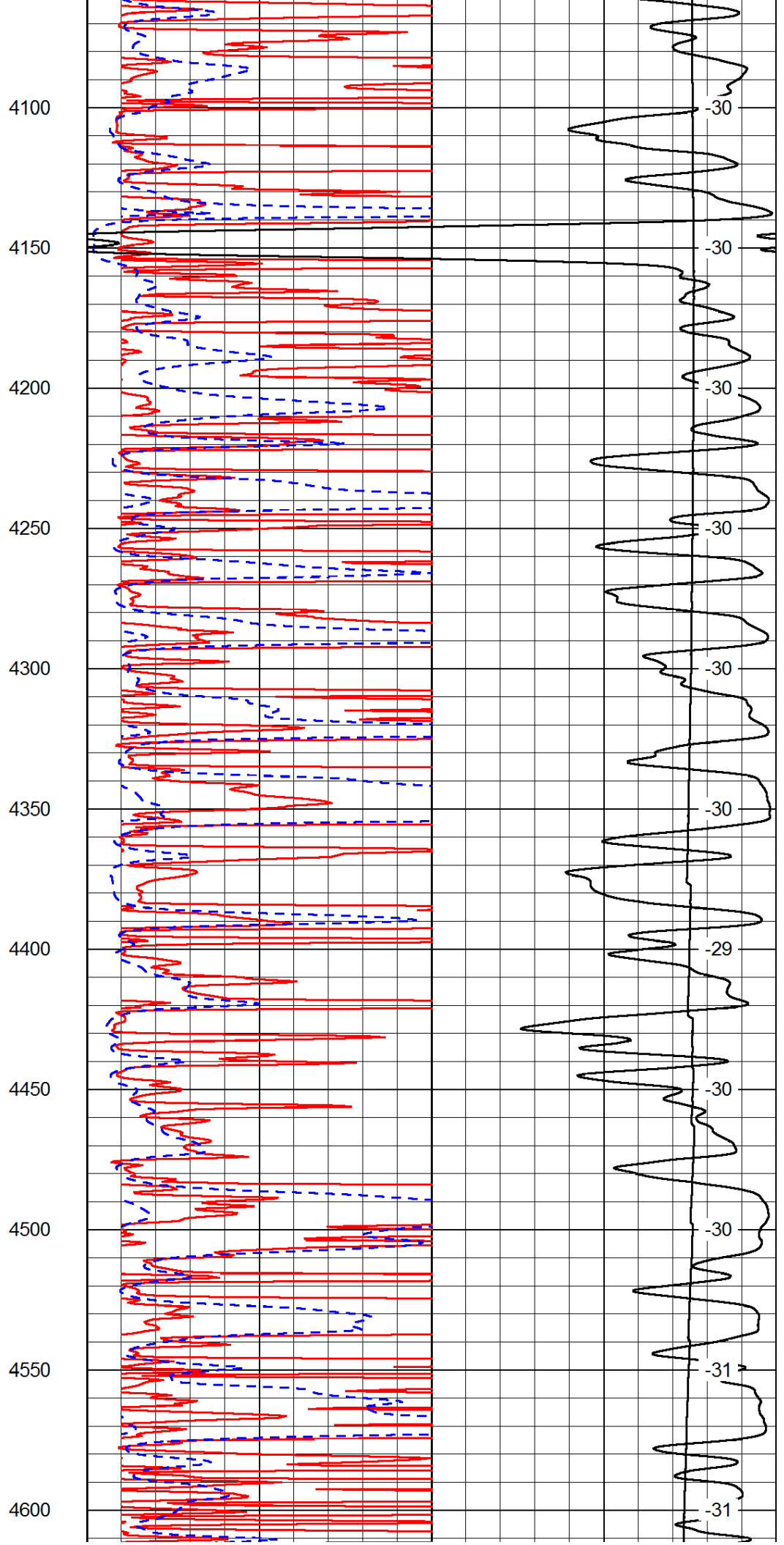
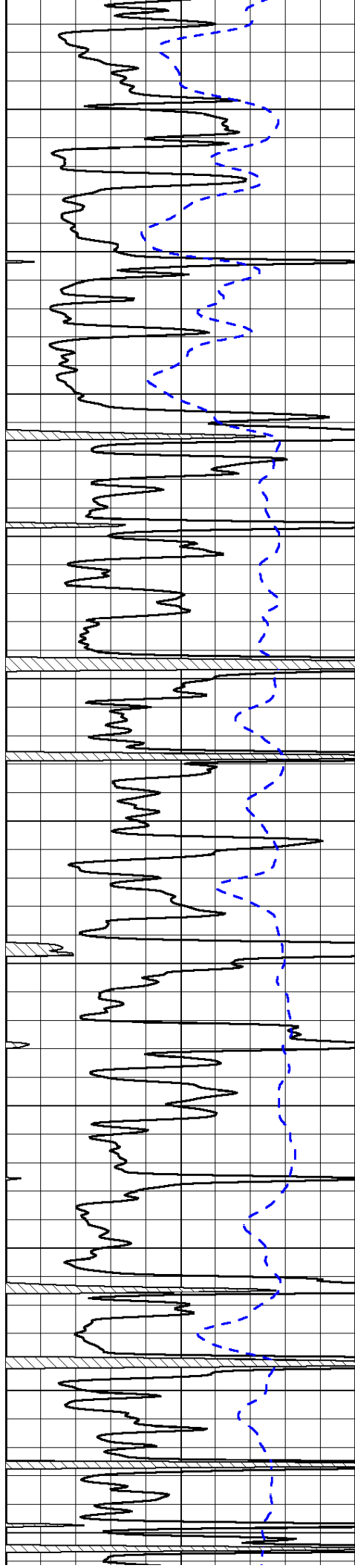


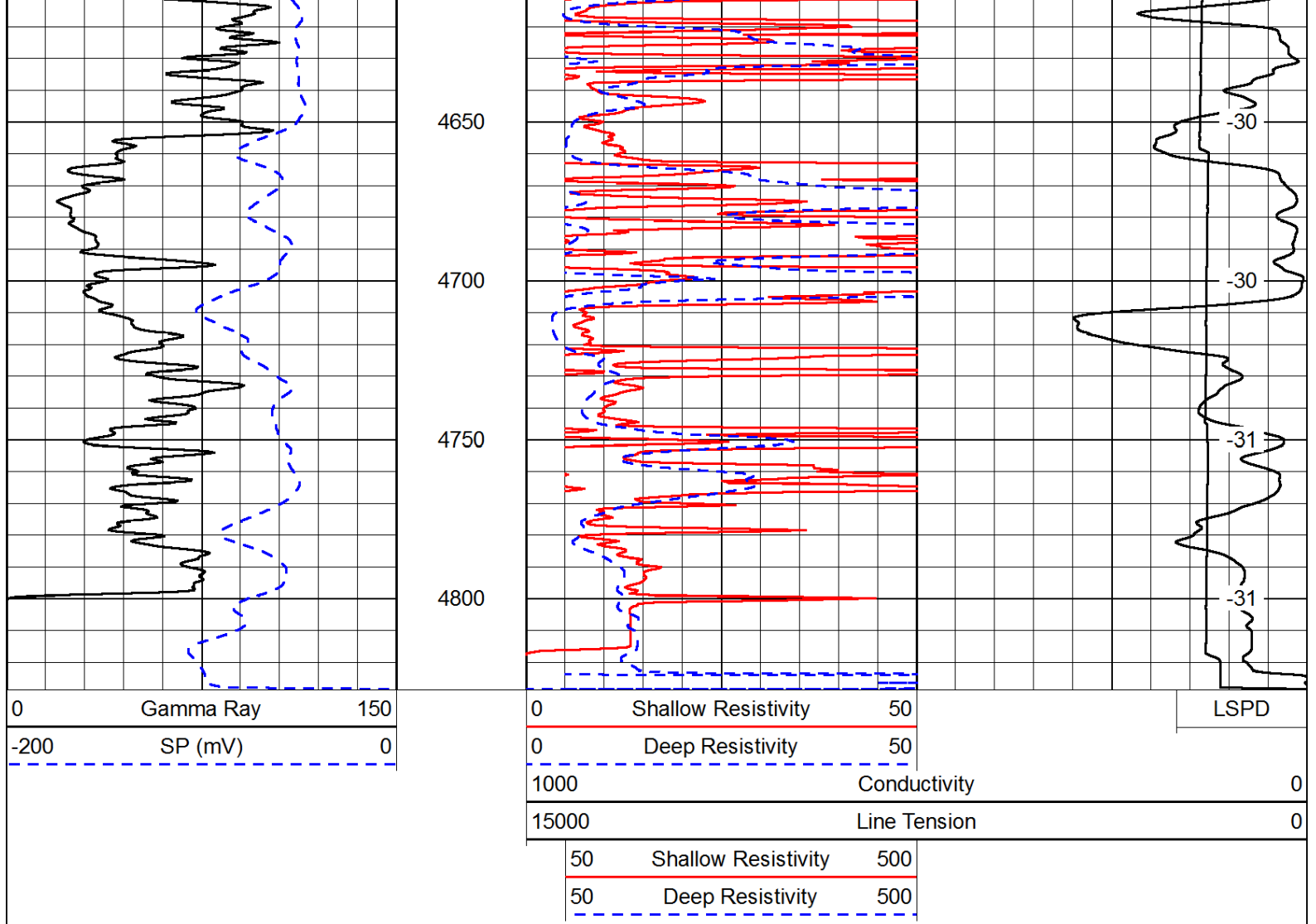




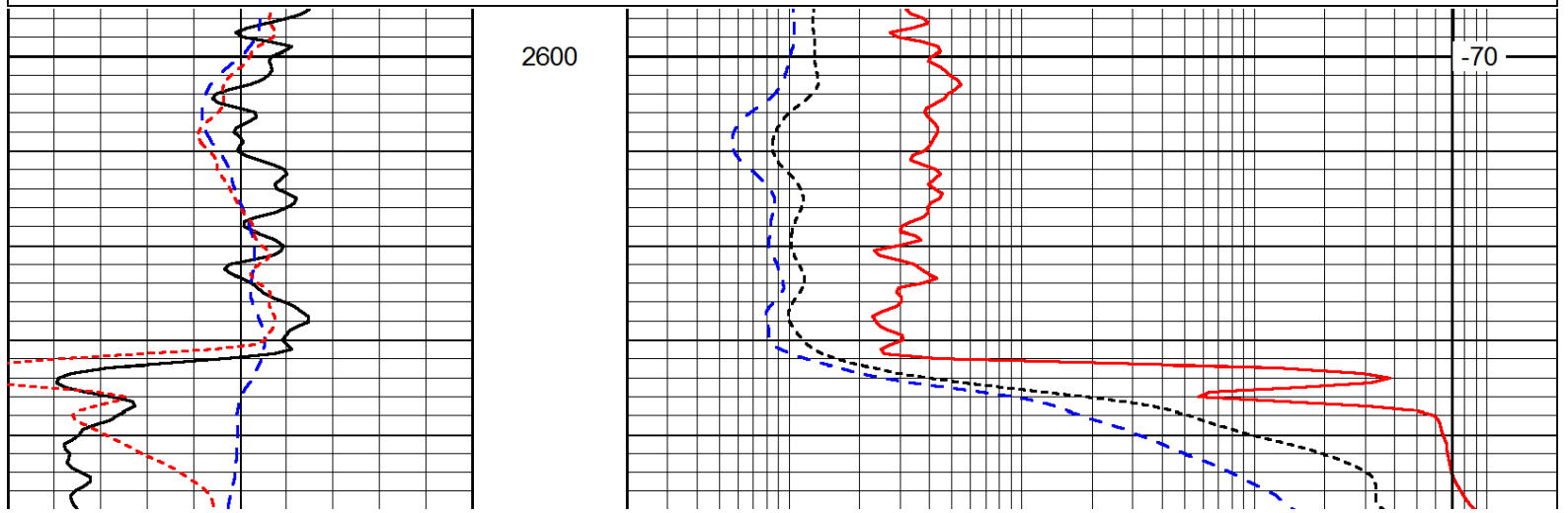
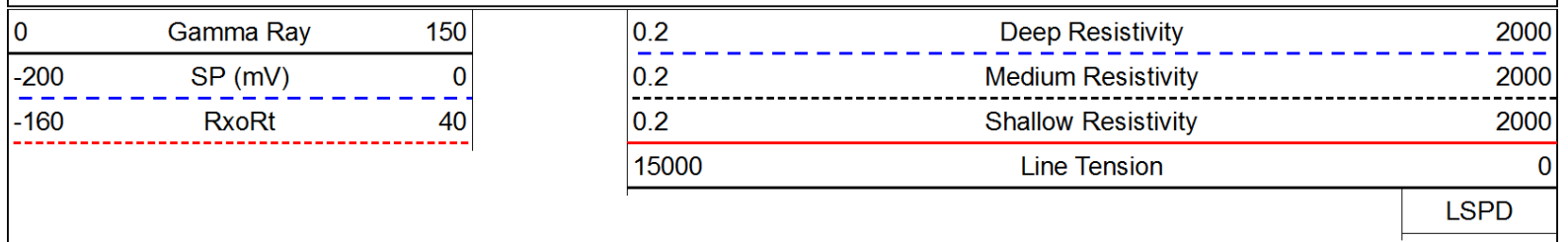


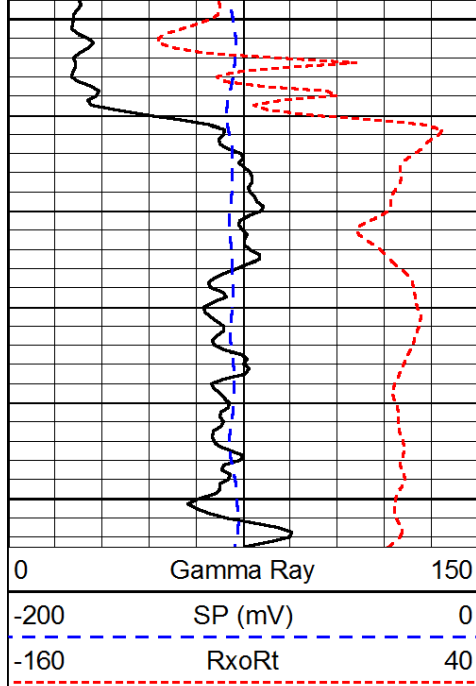






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 Charted by: Depth in Feet scaled 1:240

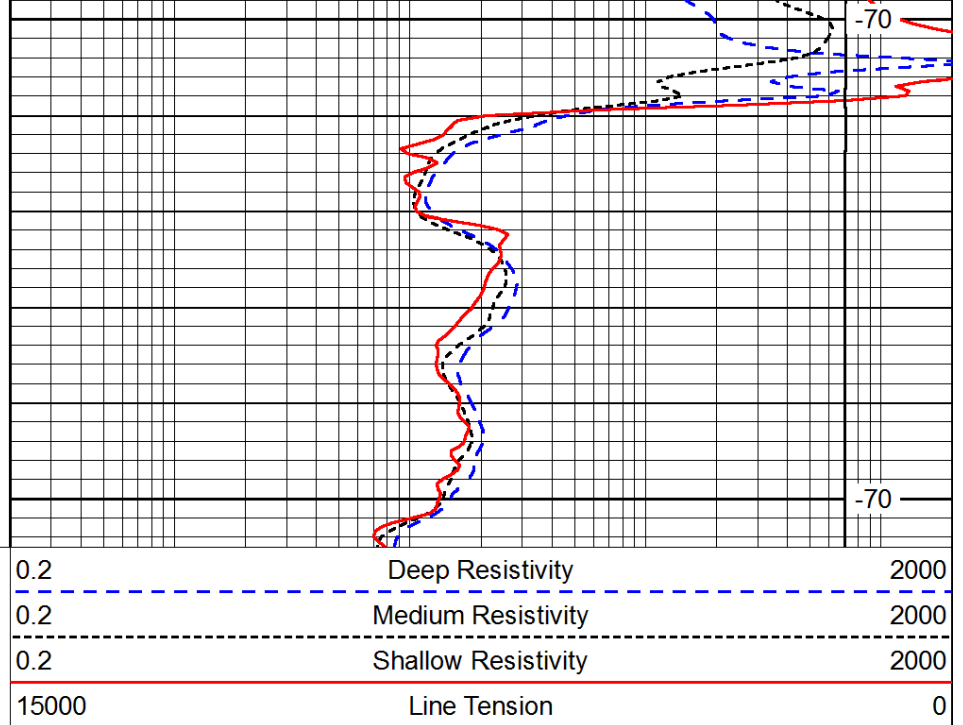




2650

2700

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



-70

-70

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

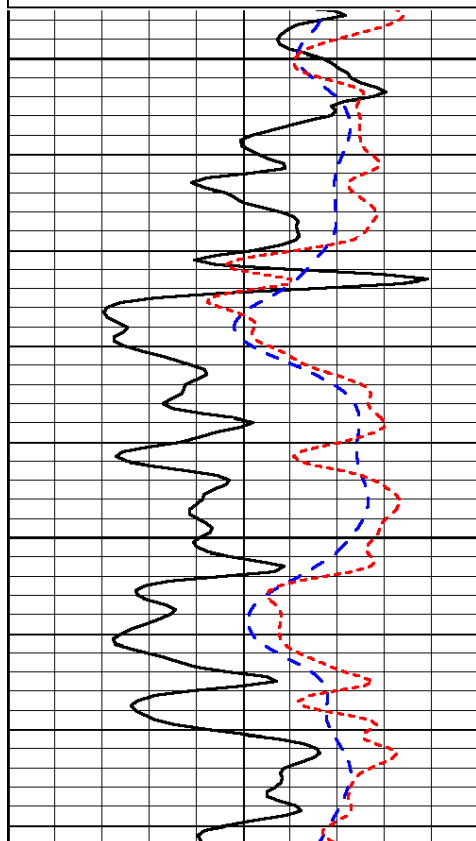
LSPD

Database File: c:\warrior\data\lb exp_beaaver valley supply 4 #1\lbexp_beaavervalleysupply4_1hd.db
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 Presentation Format: dil
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 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

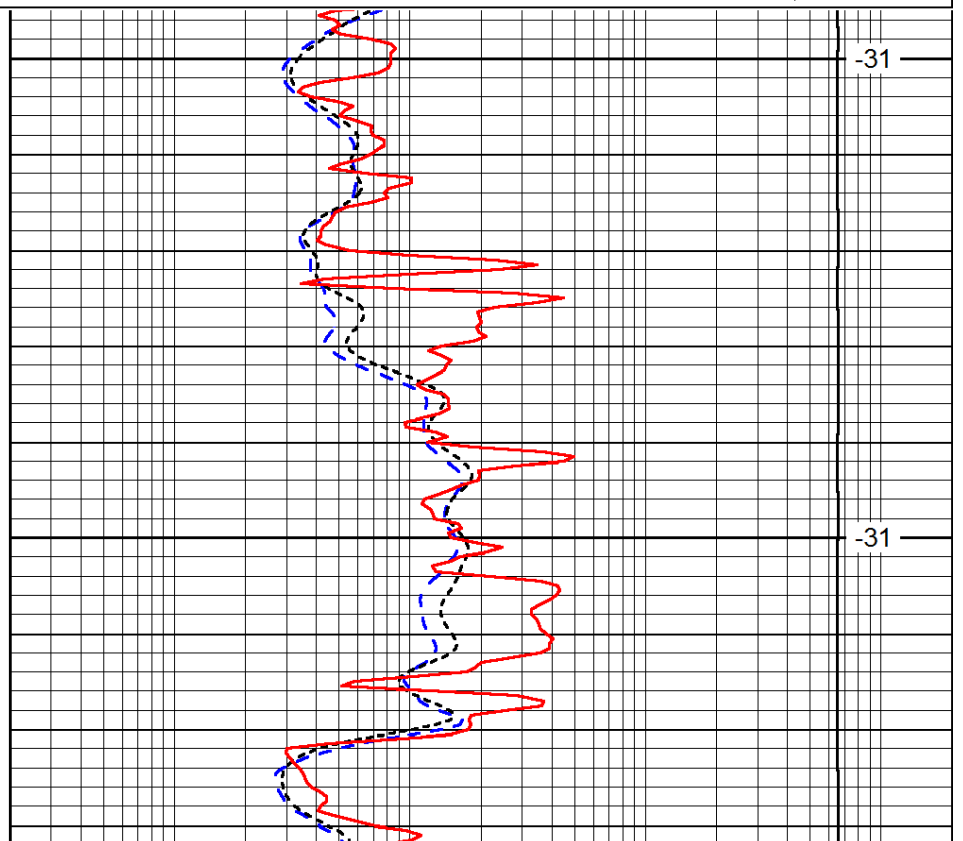
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



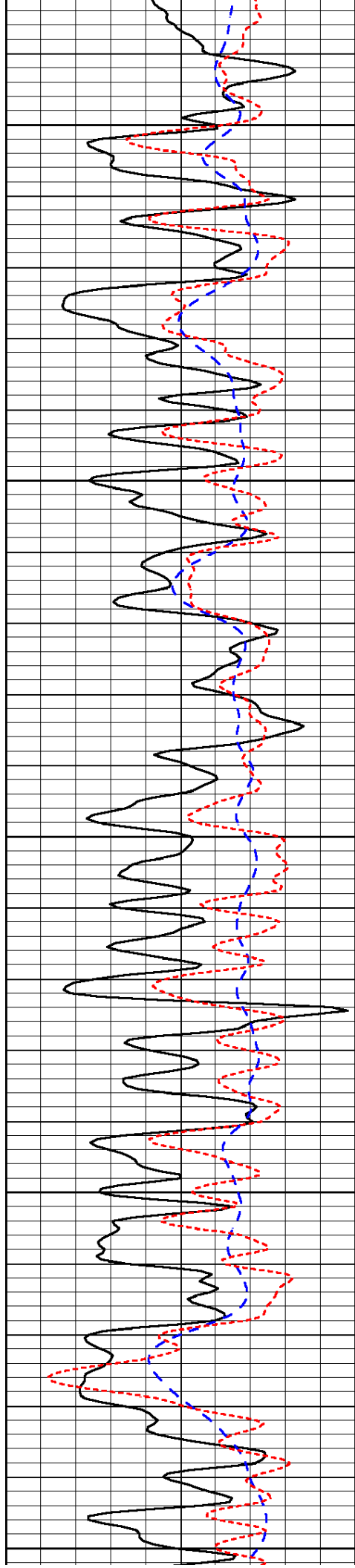
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3550



-31

-31



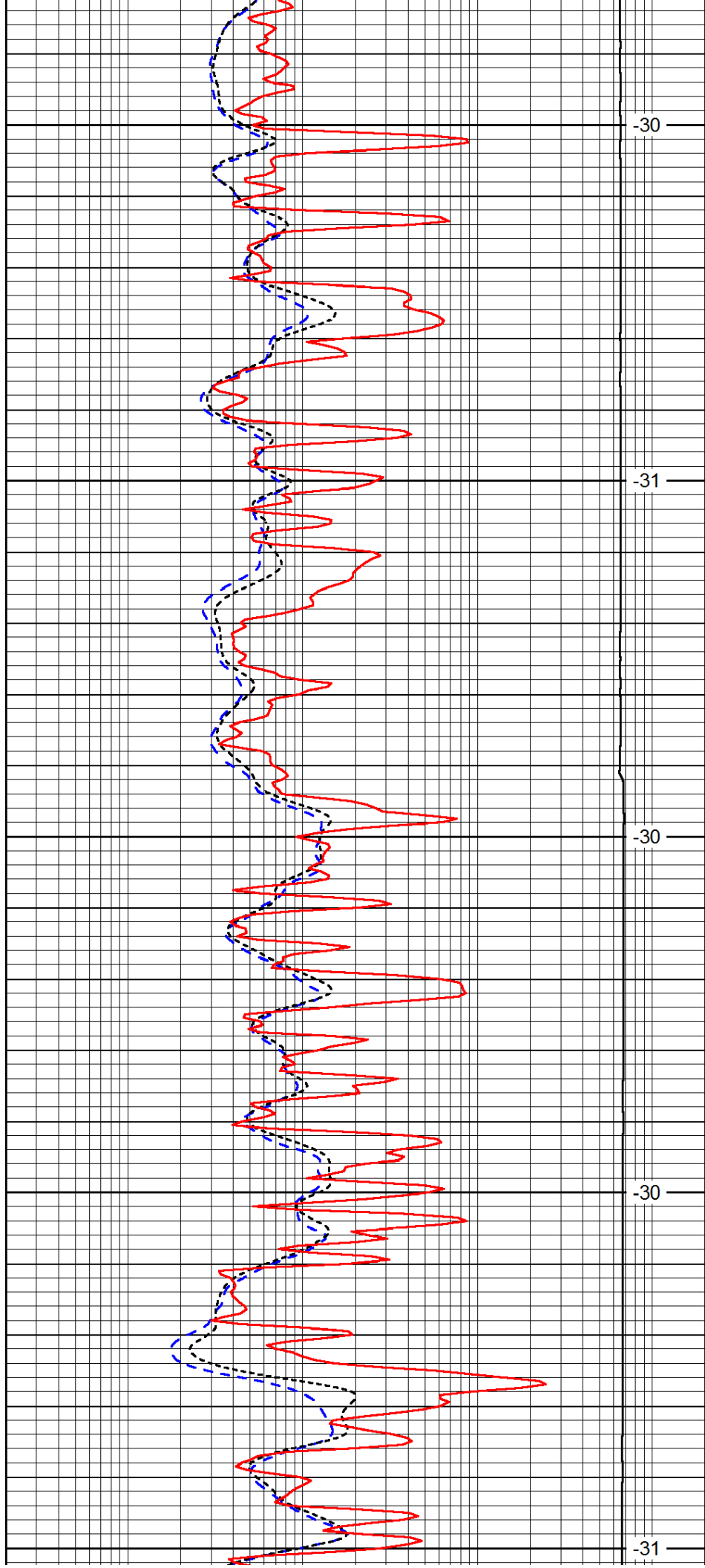
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3650

3700

3750

3800



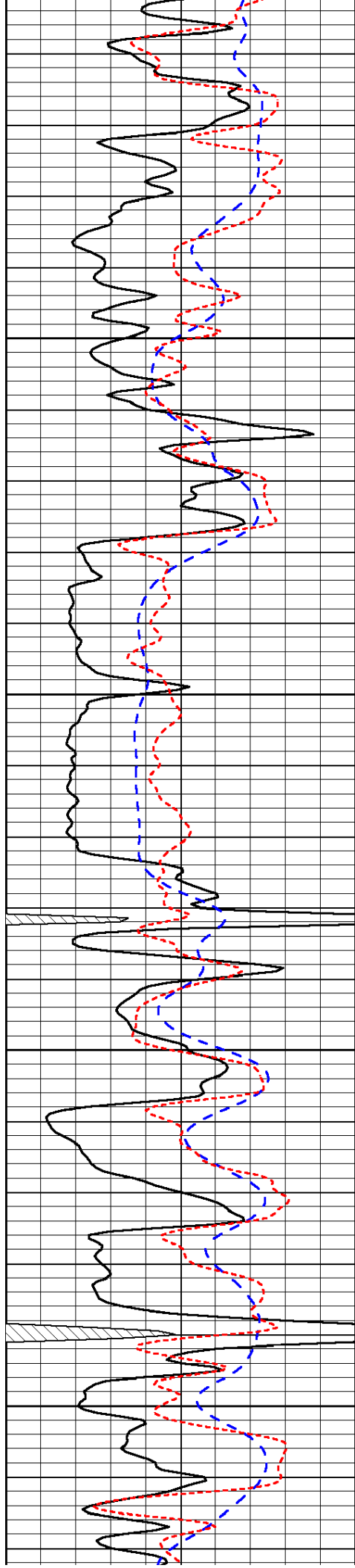
-30

-31

-30

-30

-31

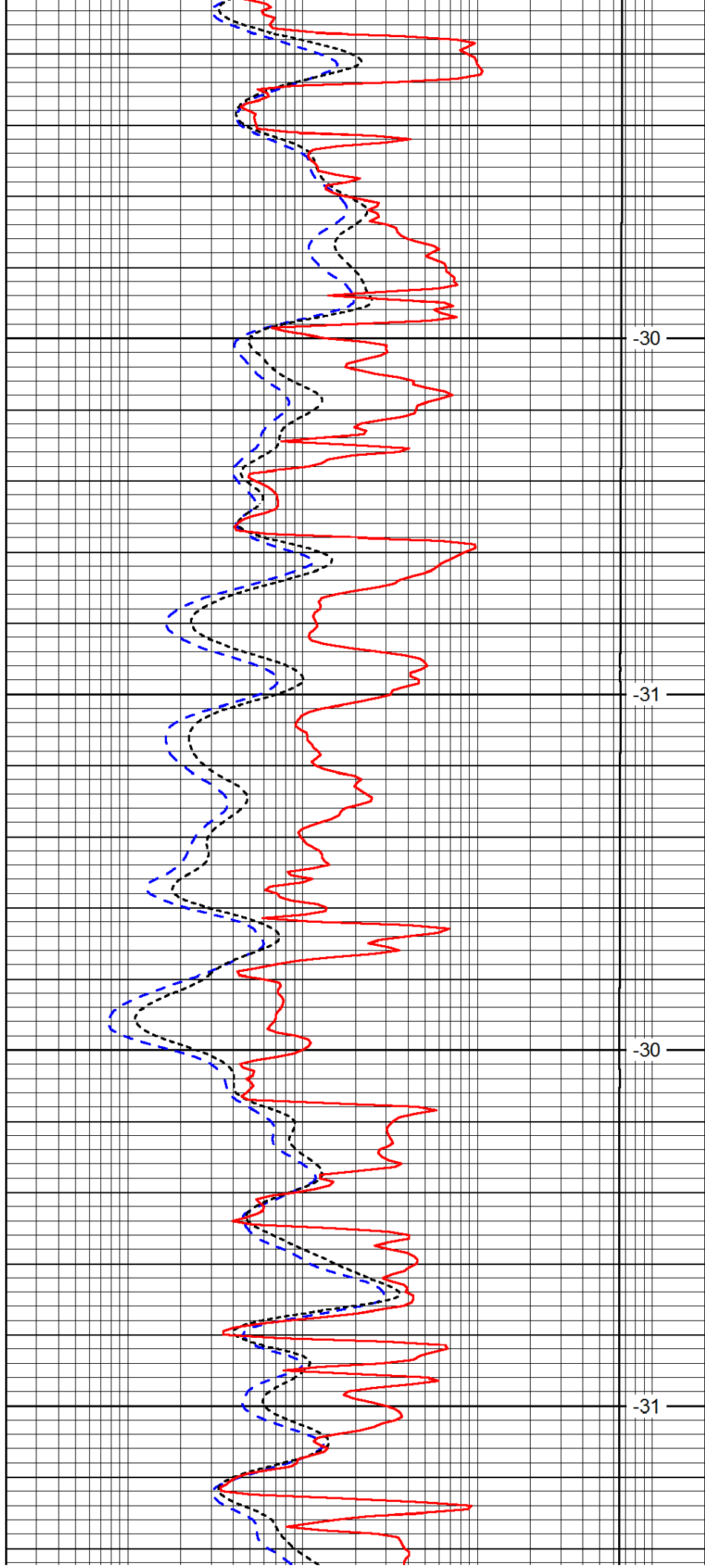


3850

3900

3950

4000

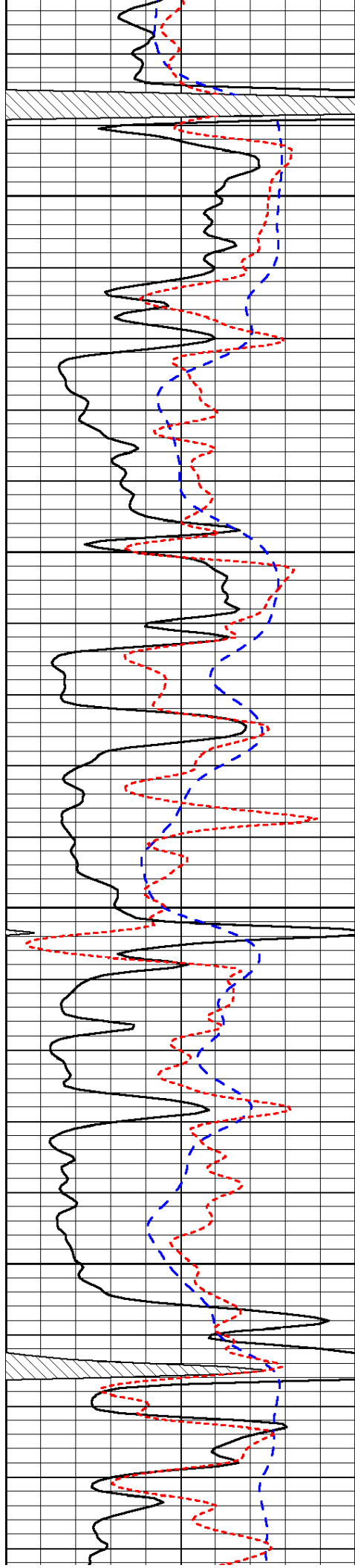


-30

-31

-30

-31

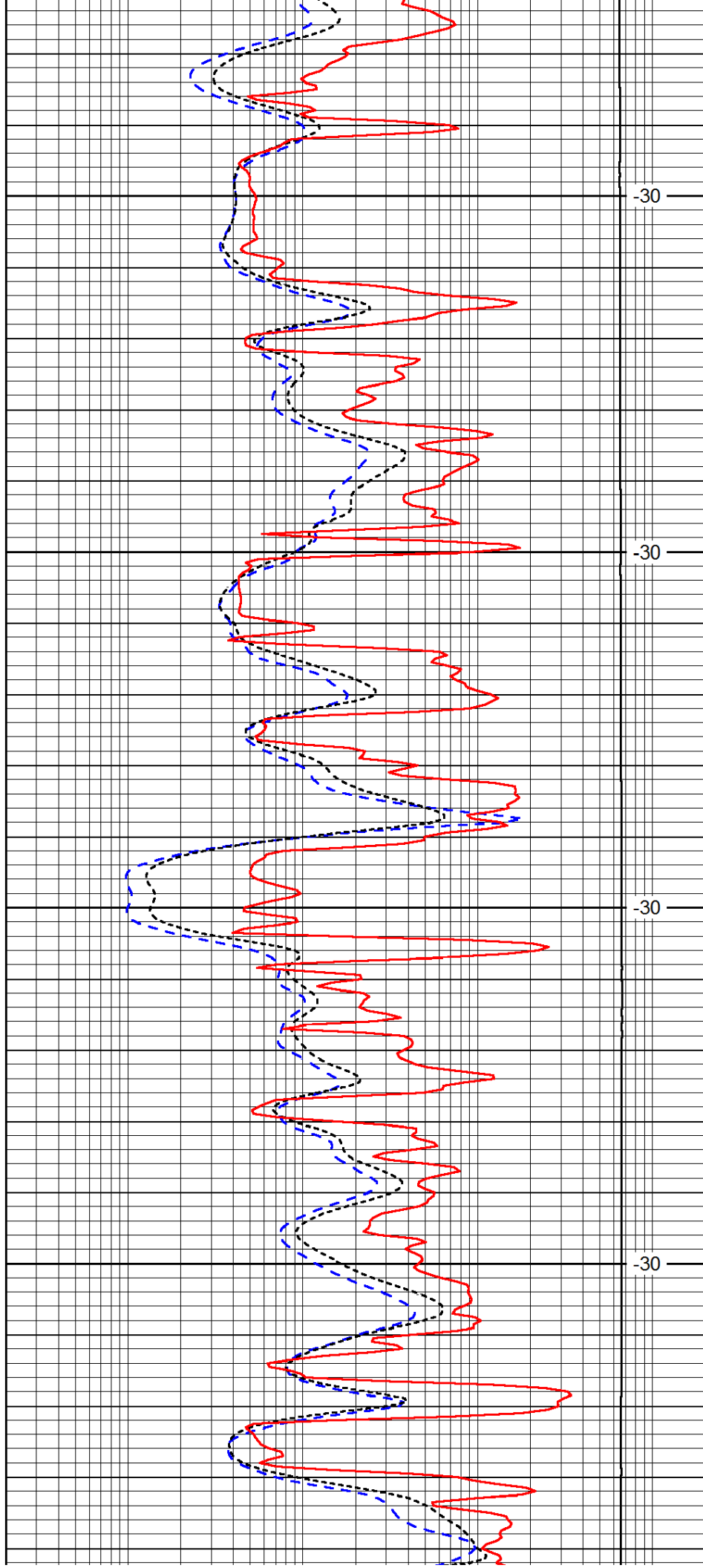


4050

4100

4150

4200

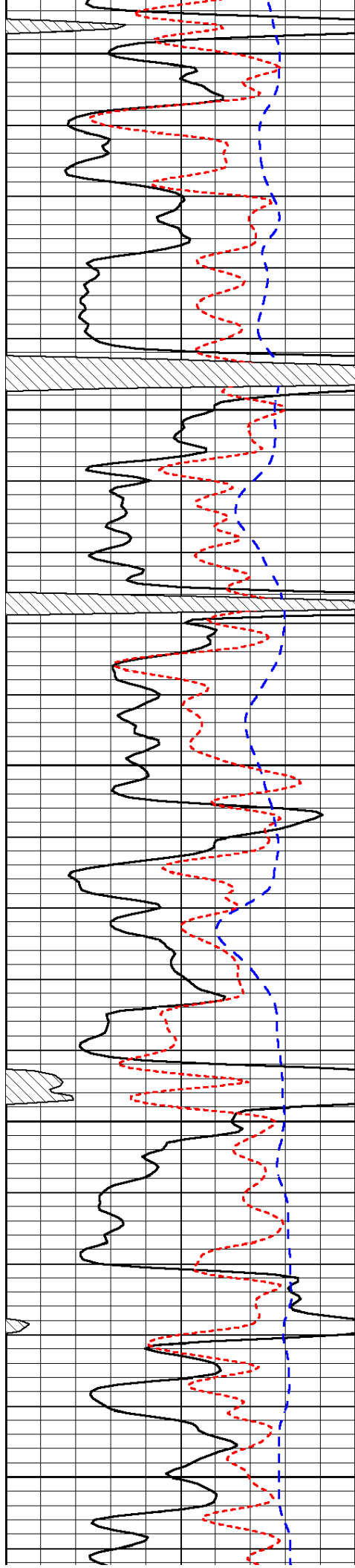


-30

-30

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-30



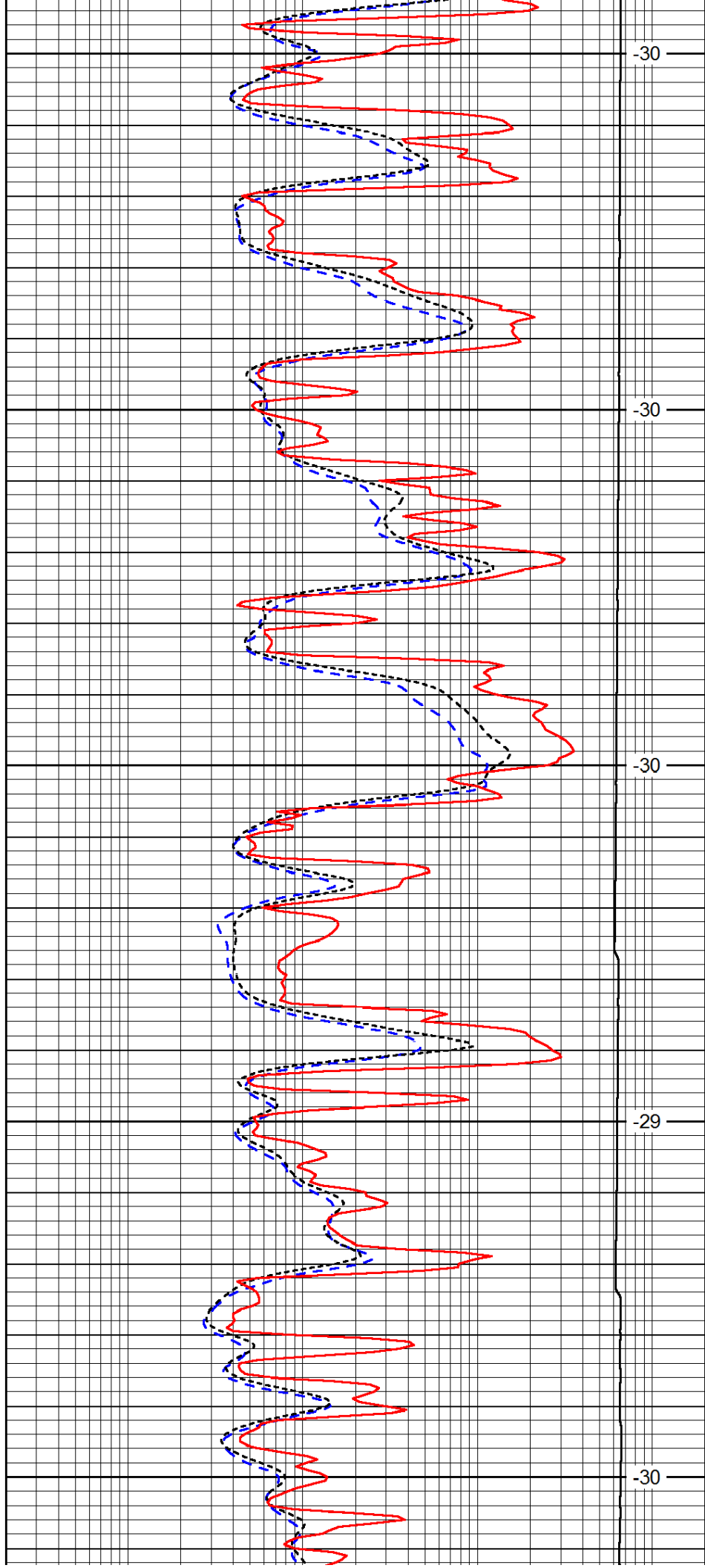
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4300

4350

4400

4450



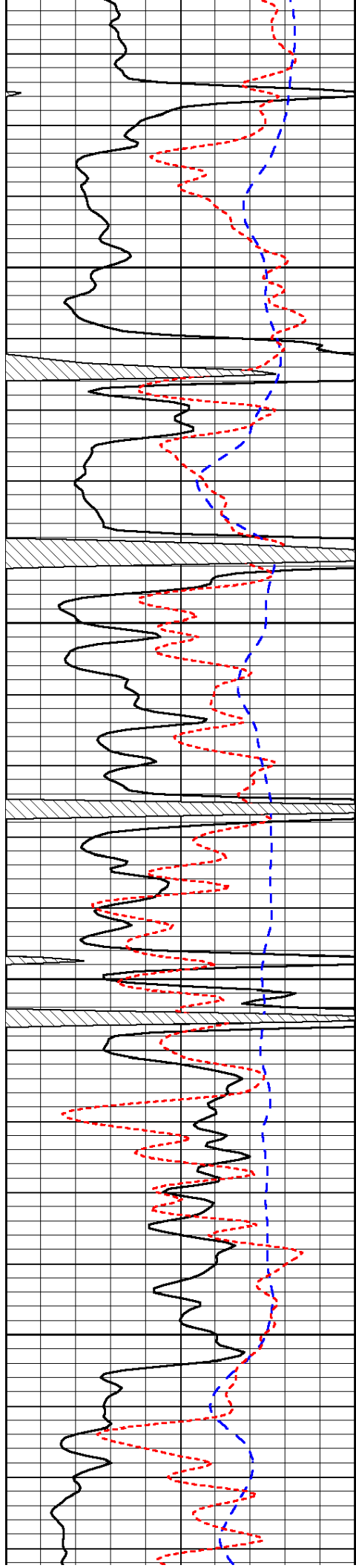
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-30

-30

-29

-30

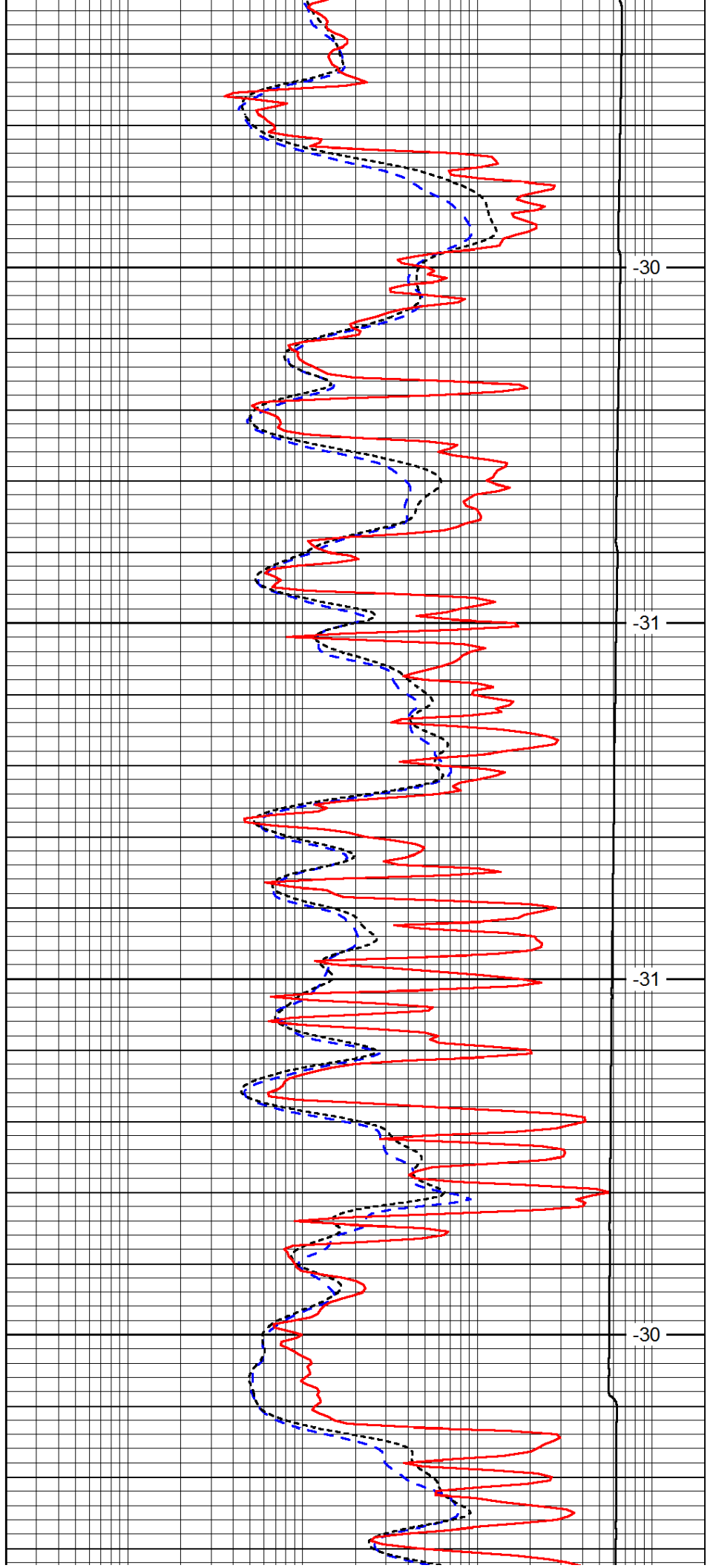


4500

4550

4600

4650

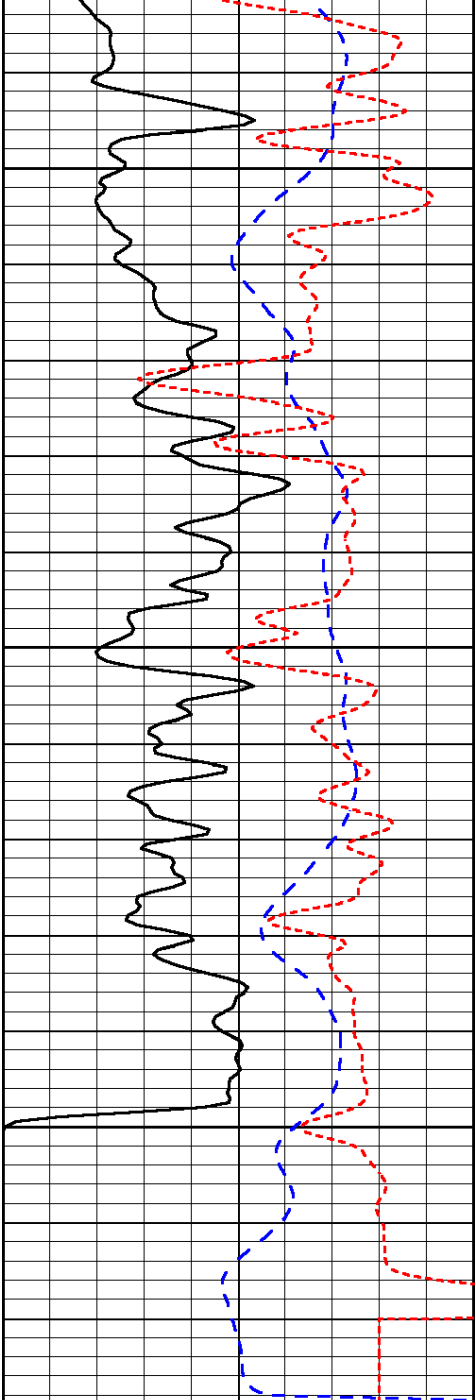


-30

-31

-31

-30

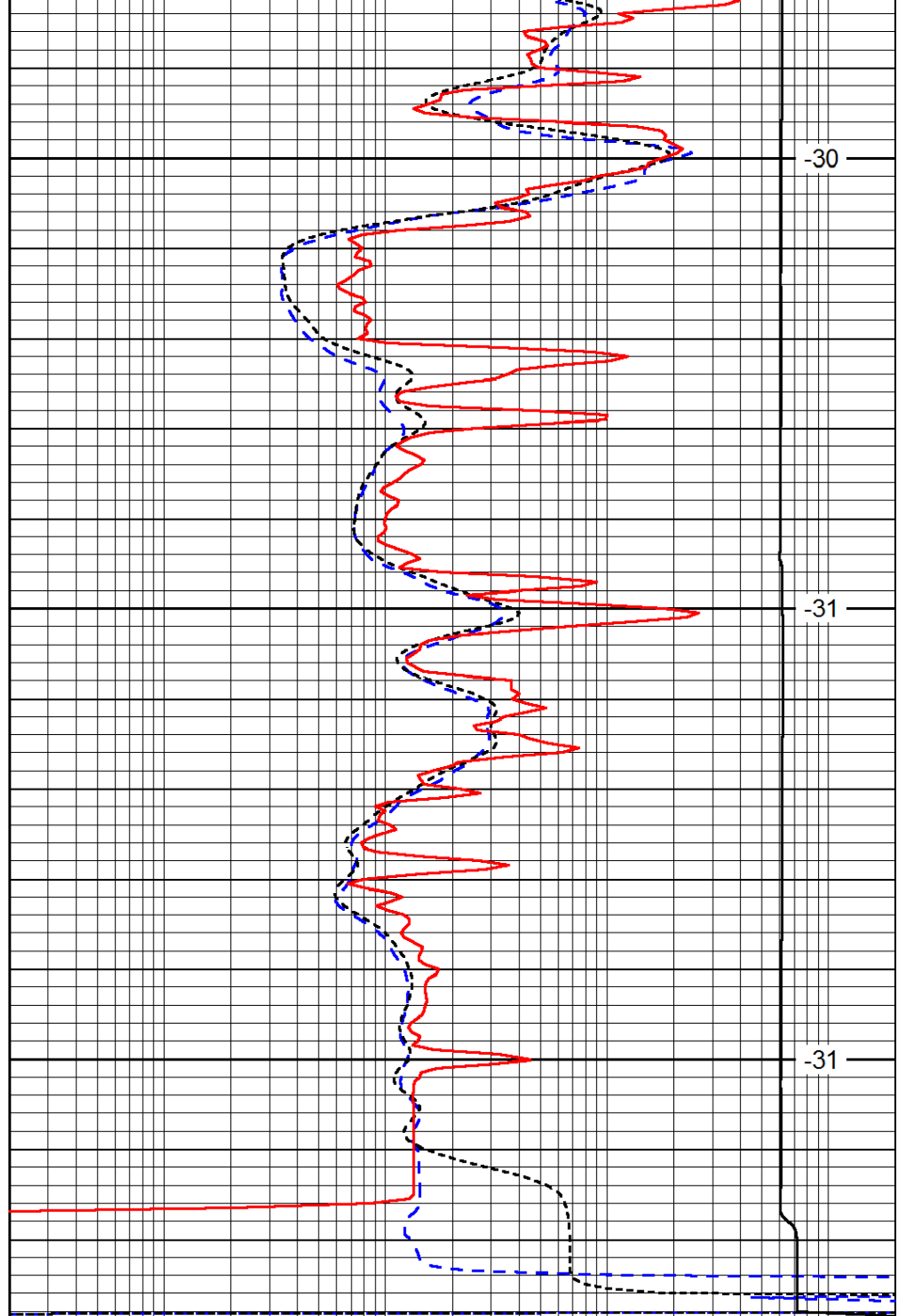


0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

4700

4750

4800



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

-30

-31

-31

LSPD