



Dual Induction Log

Pioneer Energy Services

API No.

15-097-21,784-00-00

Company **Toto Energy, LLC**

Well **Parkin Lot #1**

Field **Nichols**

County **Kiowa** State

Kansas

Location **2,310' FSL & 2,310' FWL**

Sec: 5 Twp: 30S Rge: 18W

Other Services
CNL/CDL
MEL

Elevation

K.B. 2229
D.F. 2219
G.L. 2219

Elevation 2219
10 Ft. Above Perm. Datum

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Date 3/3/2014

Run Number One

Depth Driller 5350

Depth Logger 5355

Bottom Logged Interval 5354

Top Log Interval 250

Casing Driller 8.625 @ 262

Casing Logger 264

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8500

Density / Viscosity 9.6 66

pH / Fluid Loss 8.5 10.4

Source of Sample Flowline

Rm @ Meas. Temp .50 @ 60

Rmf @ Meas. Temp .38 @ 60

Rmc @ Meas. Temp .68 @ 60

Source of Rmf / Rmc Charts

Rm @ BHT .23 @ 130

Operating Rig Time 4 Hours

Max Rec. Temp. F 130

Equipment Number 108

Location Hays

Recorded By J. Long

Witnessed By Sean Deenihan

<<< 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.

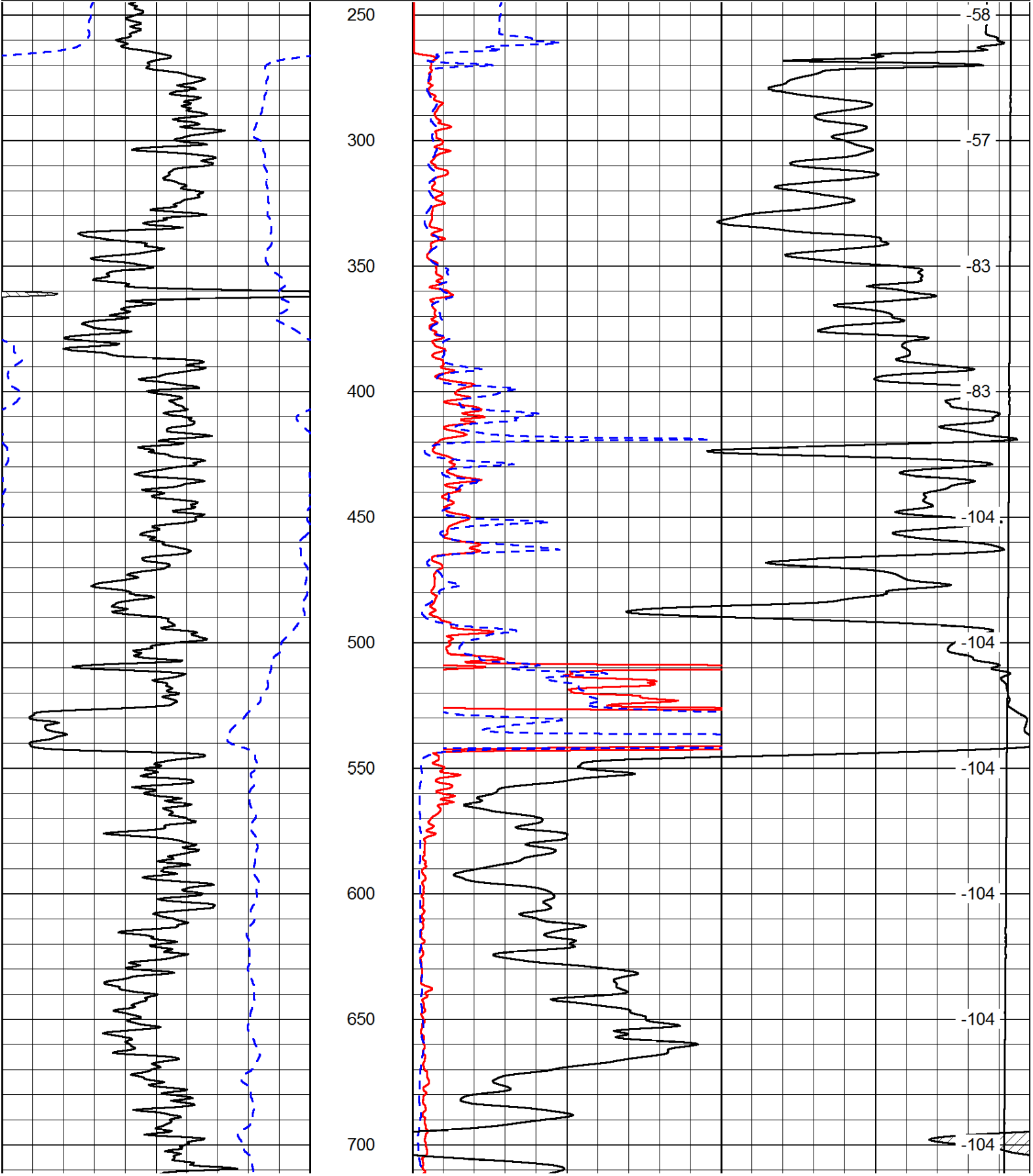
Comments

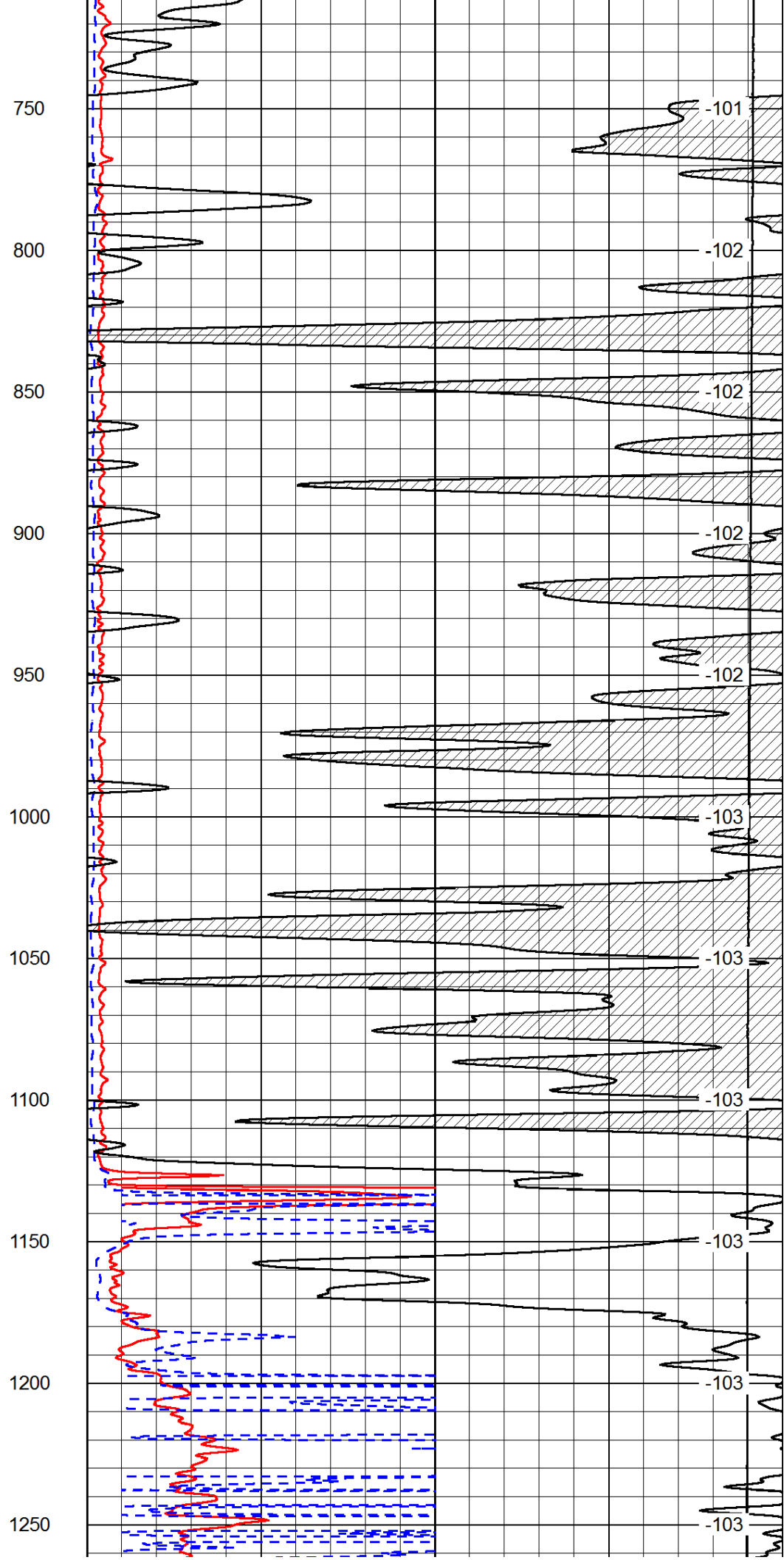
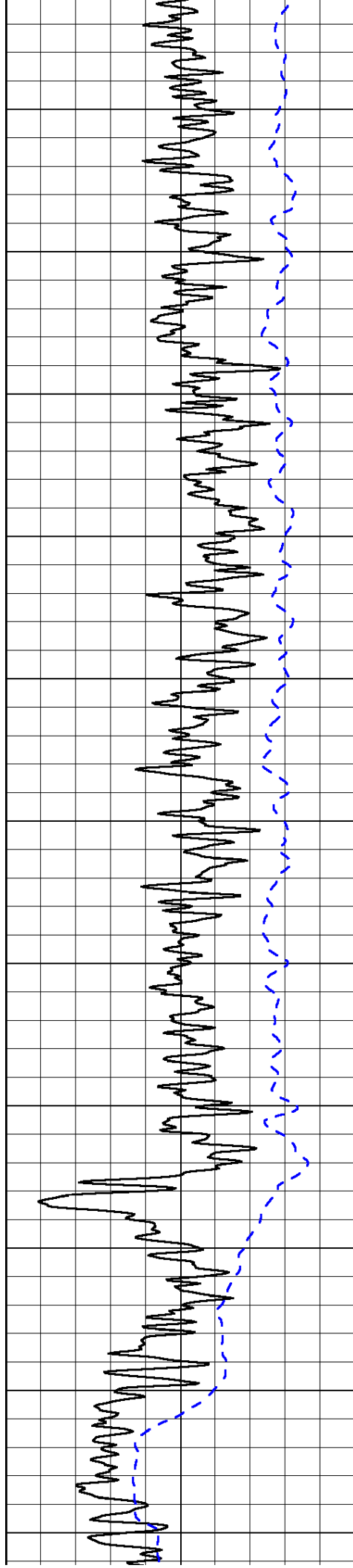
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

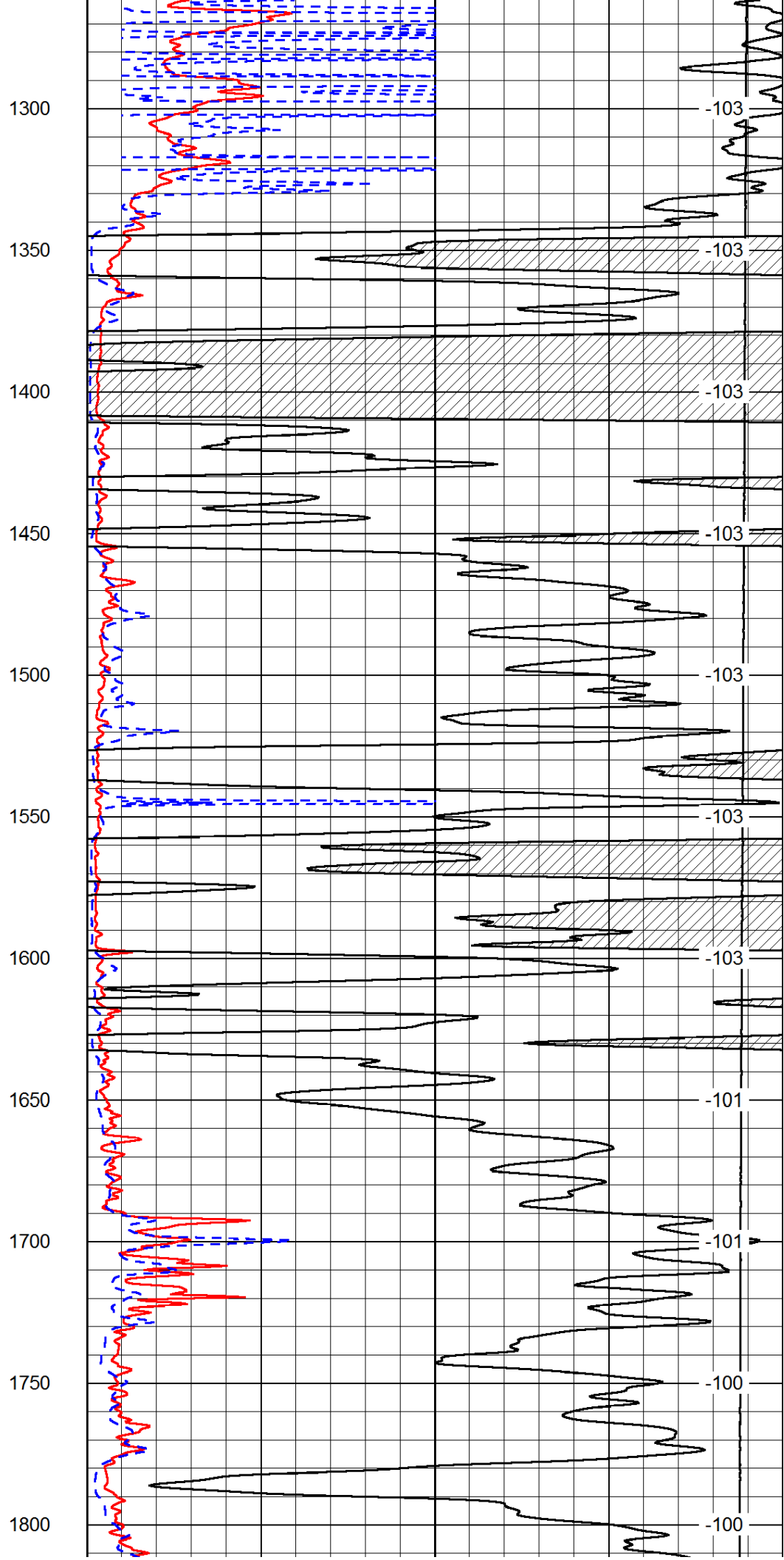
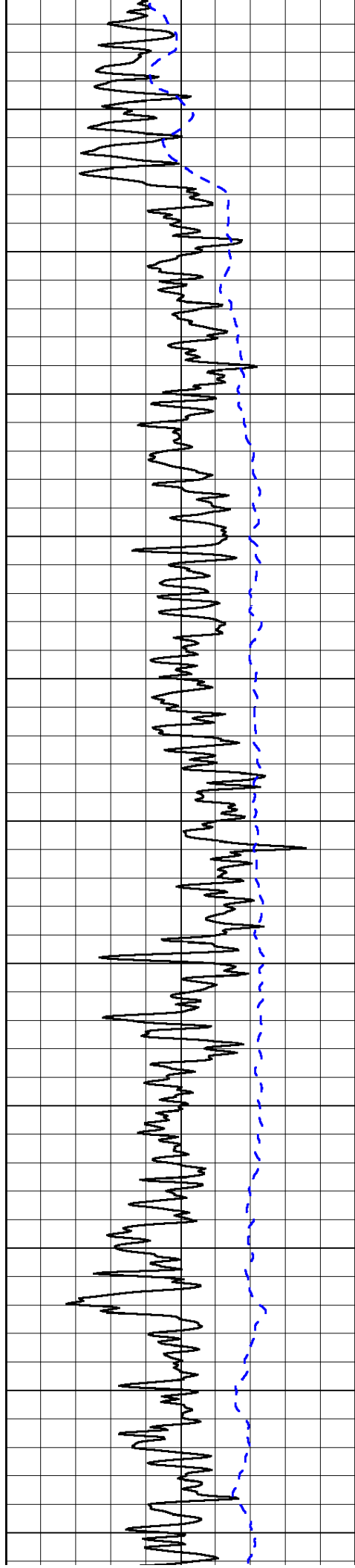
Greensburg (Intersection of Highway 54 and Highway 183), 10 South, 1/2 East at Tank Batteries,
South Into

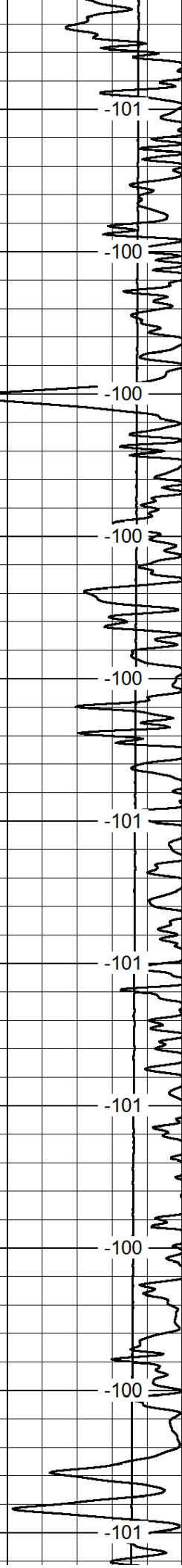
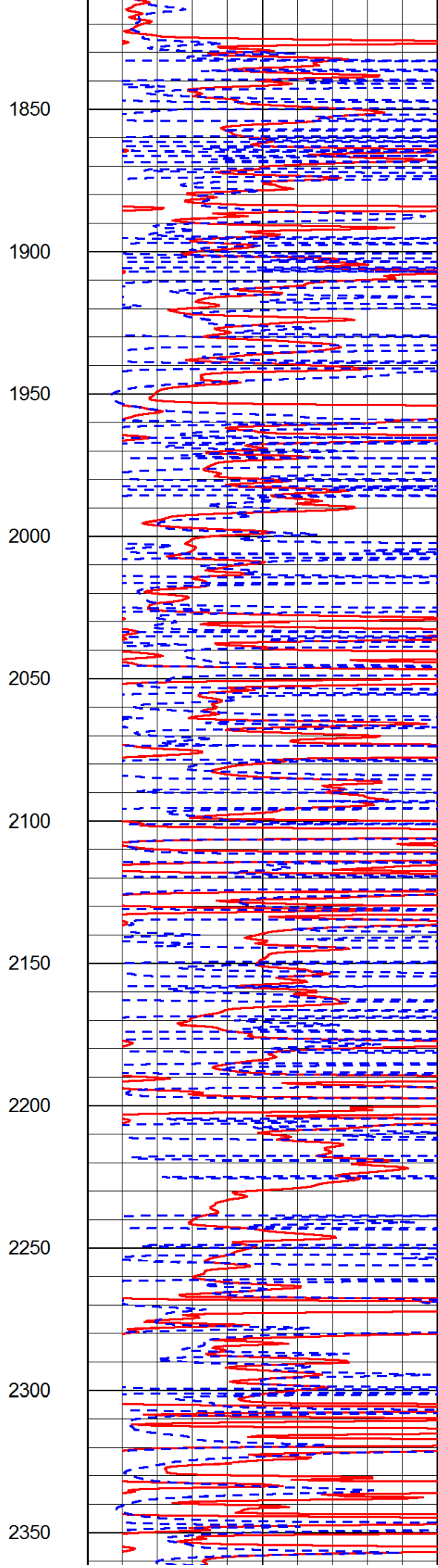
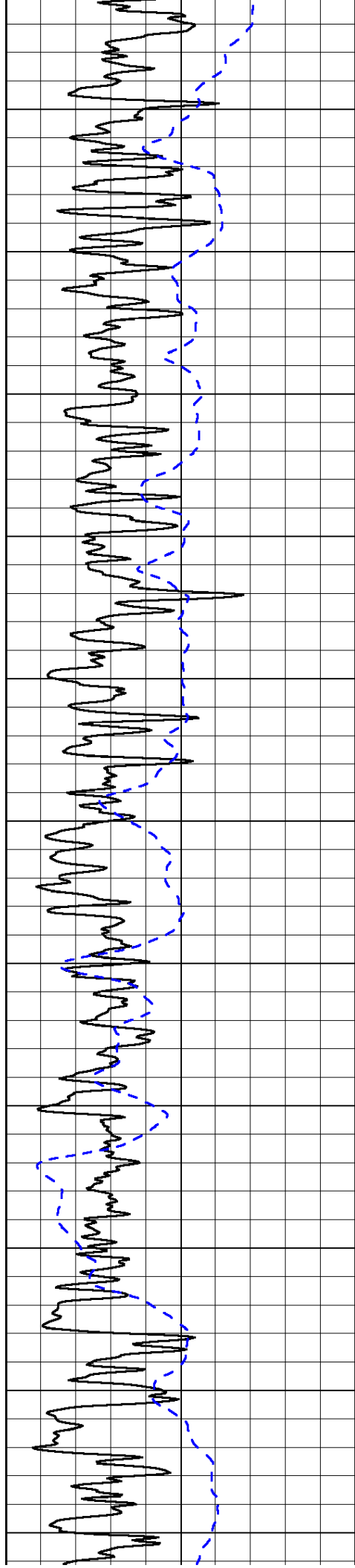
Database File: c:\warrior\data\toto_parkin lot #1\toto_parkinlot_1hd.db
Dataset Pathname: dil\totostck
Presentation Format: dil2in
Dataset Creation: Mon Mar 03 14:58:53 2014
Charted by: Depth in Feet scaled 1:600

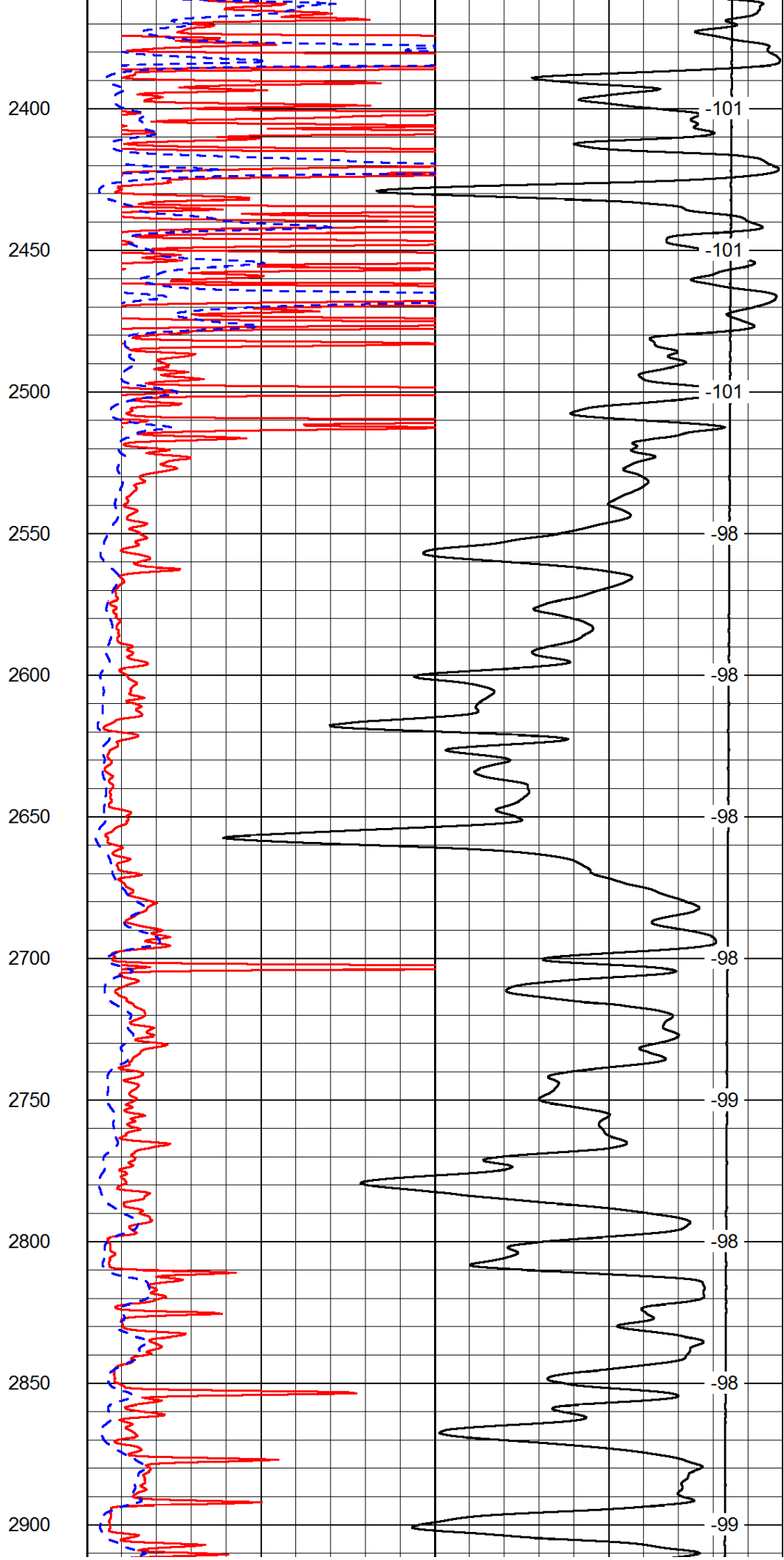
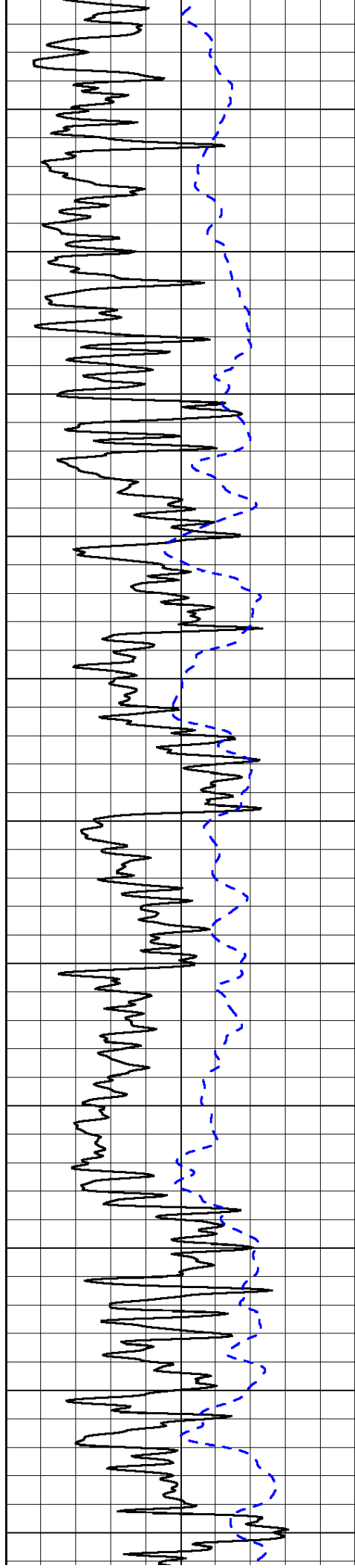
Charted by: Depth in Feet scaled 1:600								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

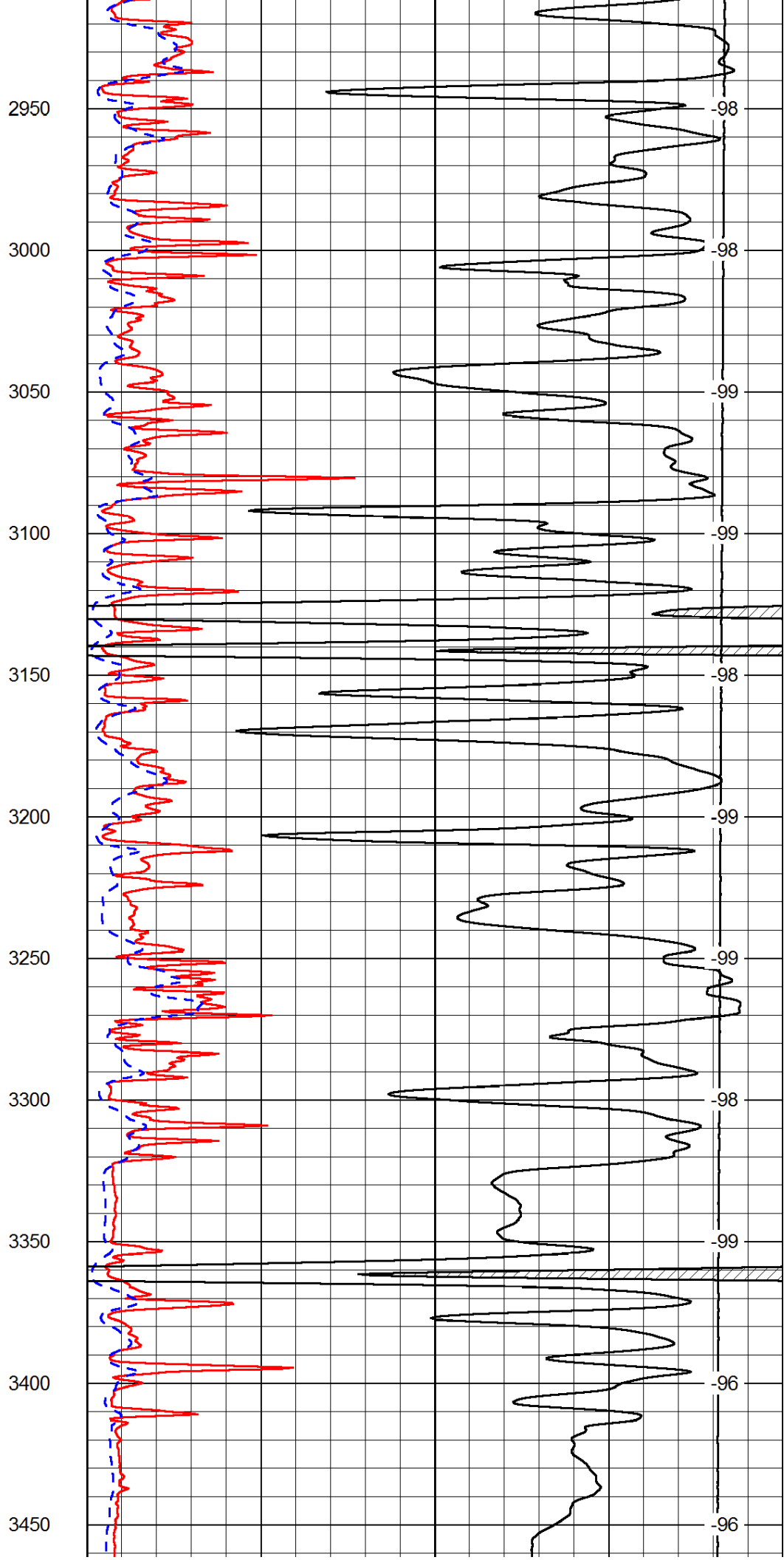
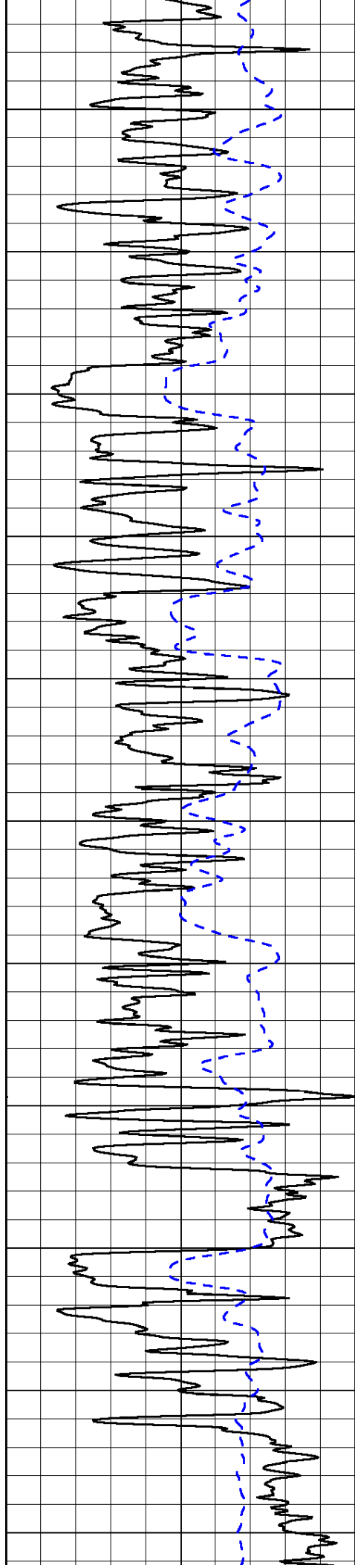


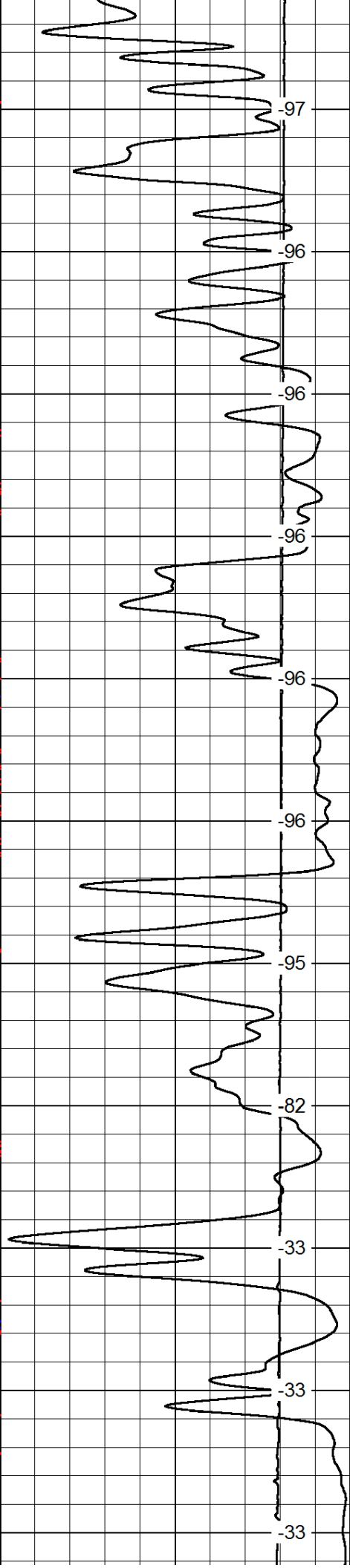
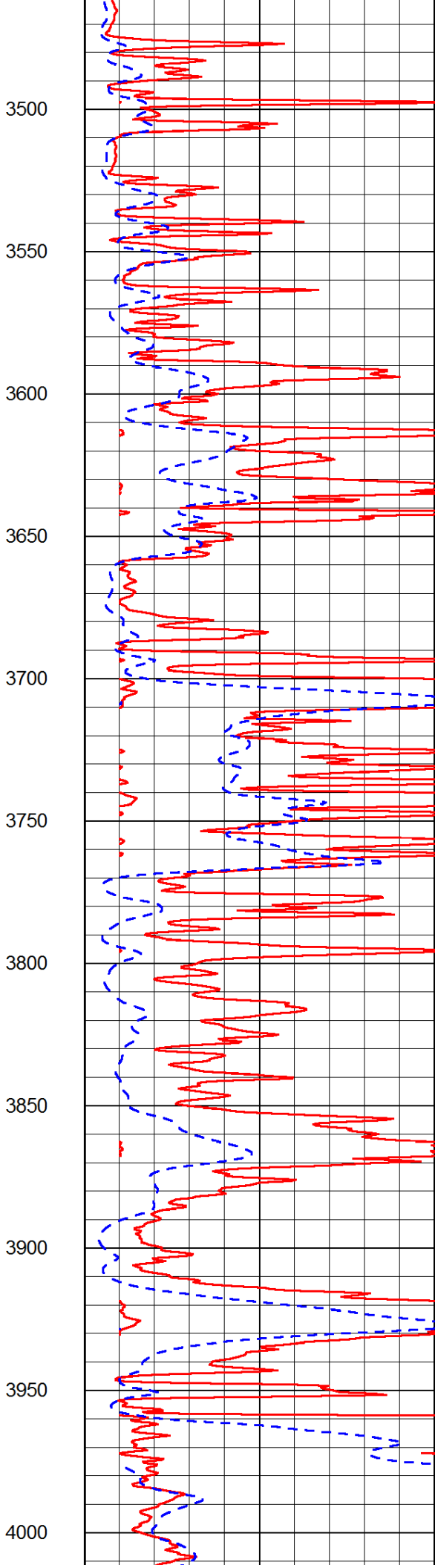
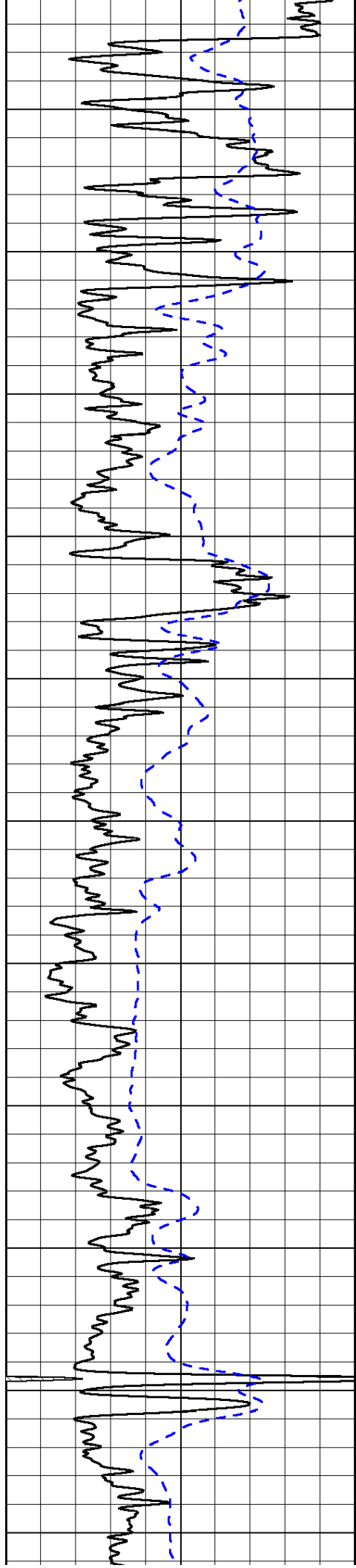


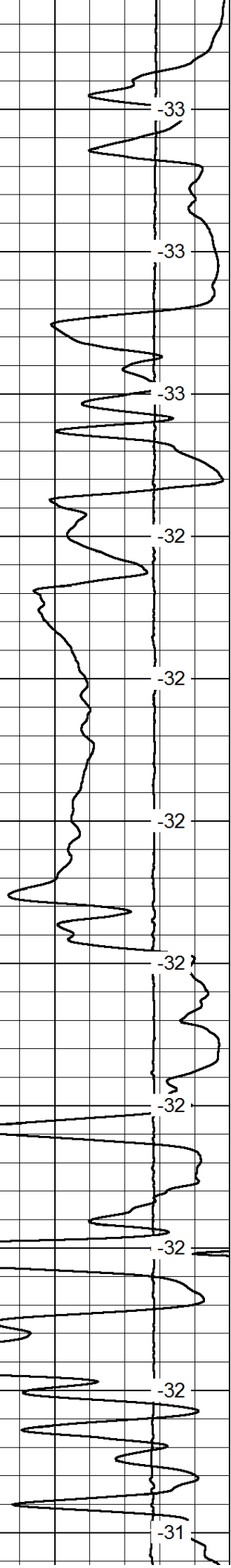
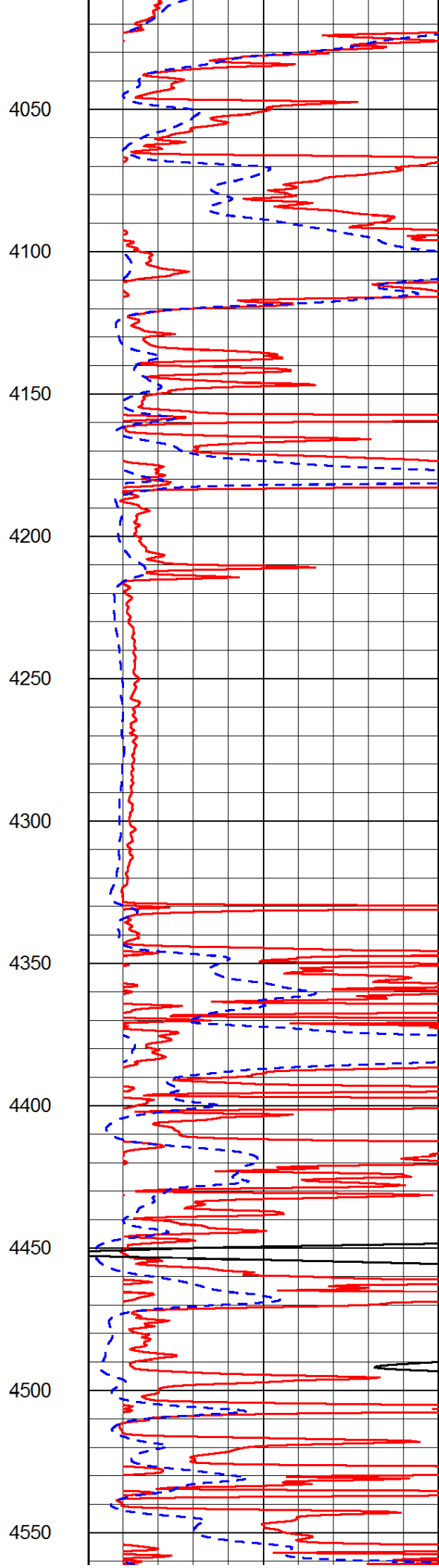
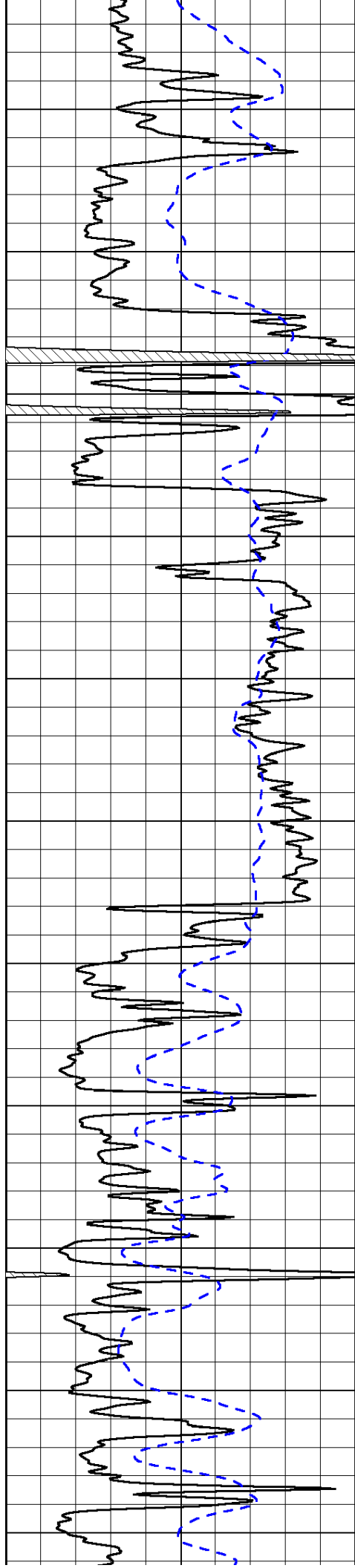


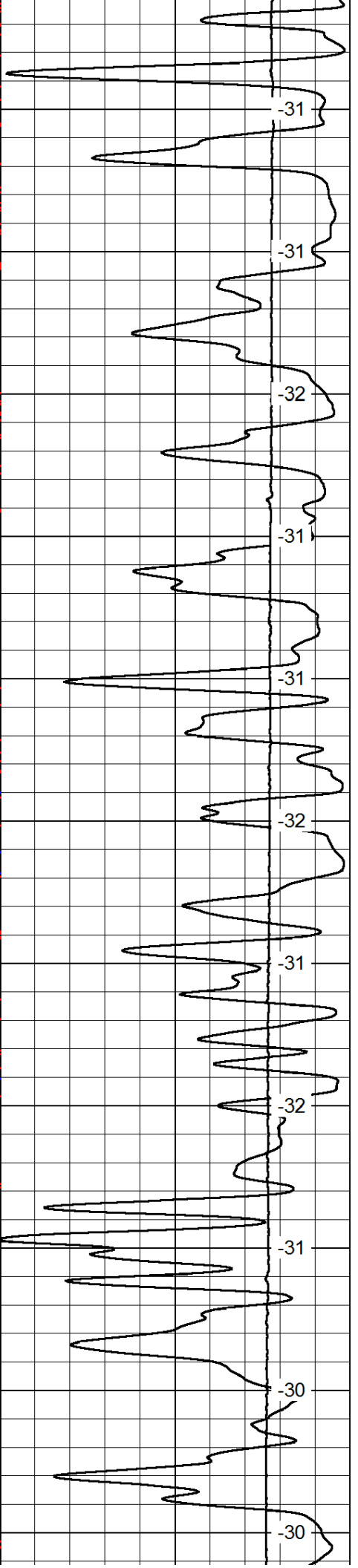
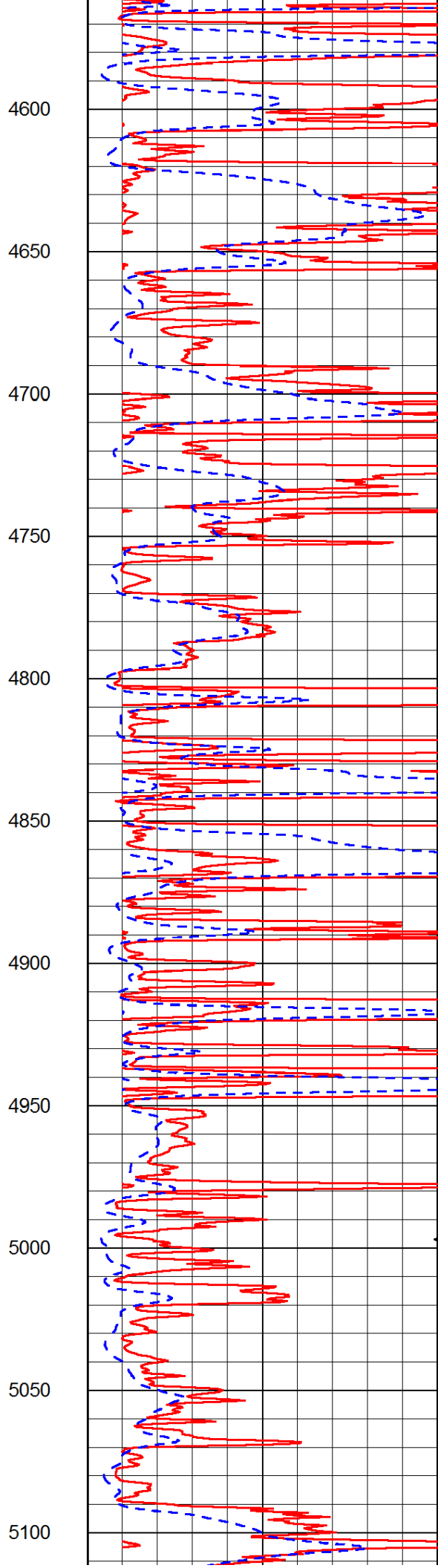
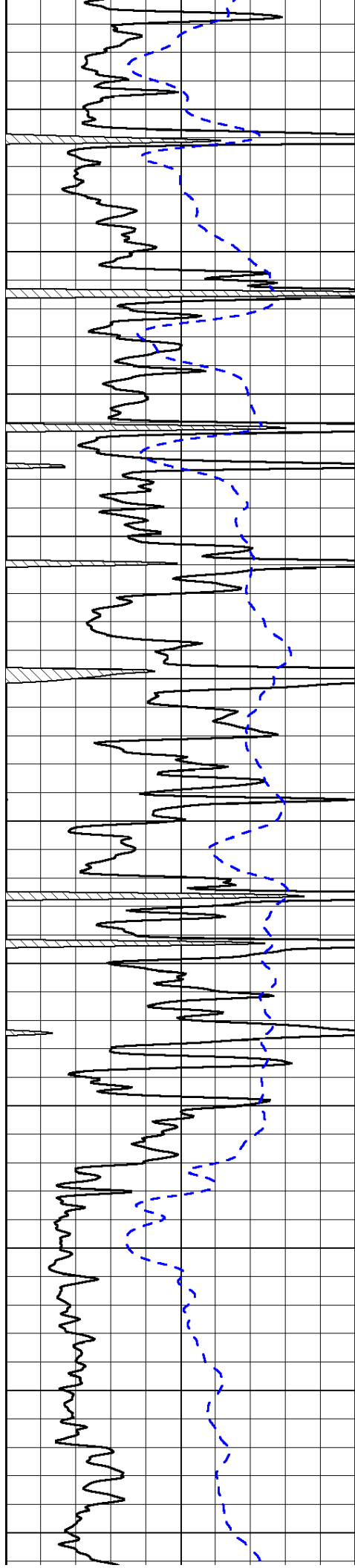


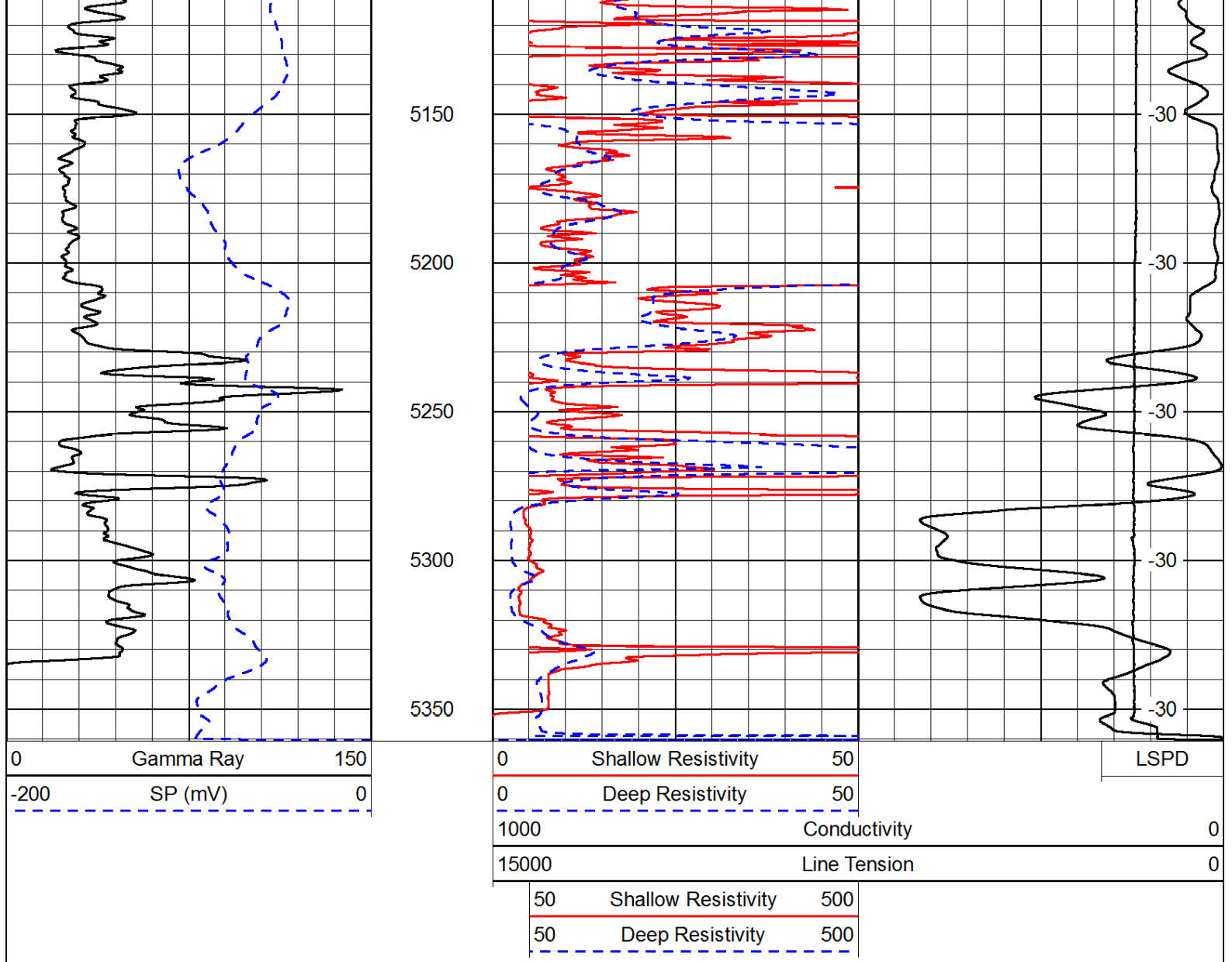




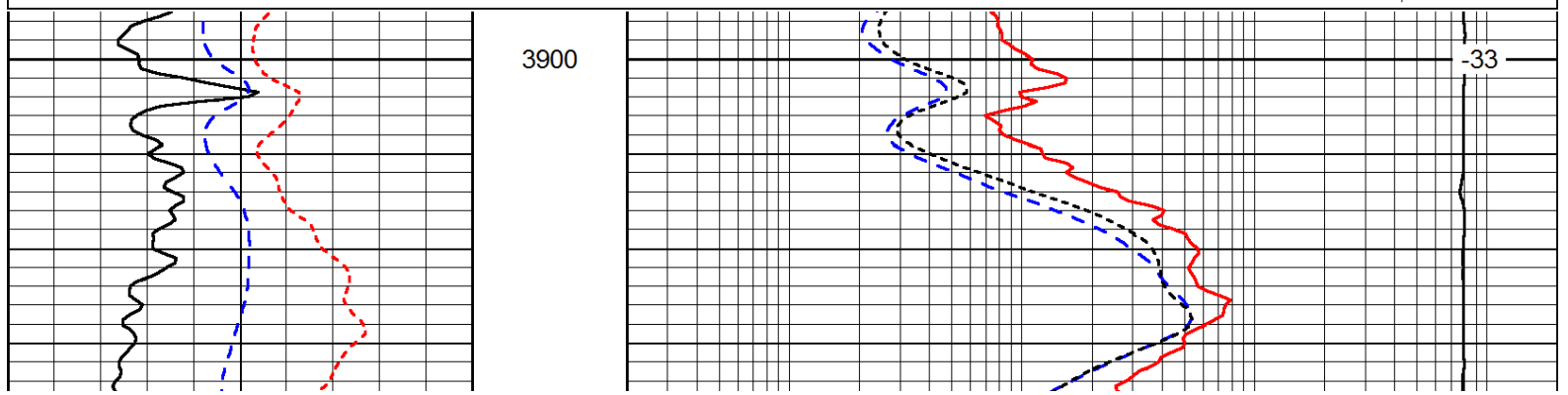
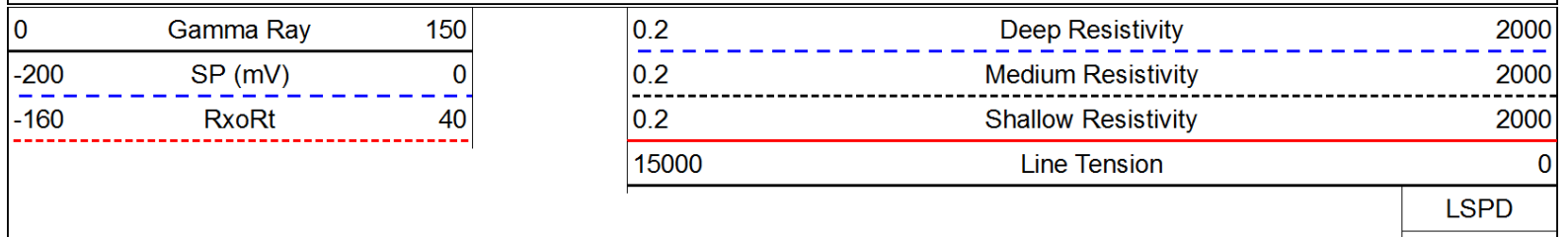


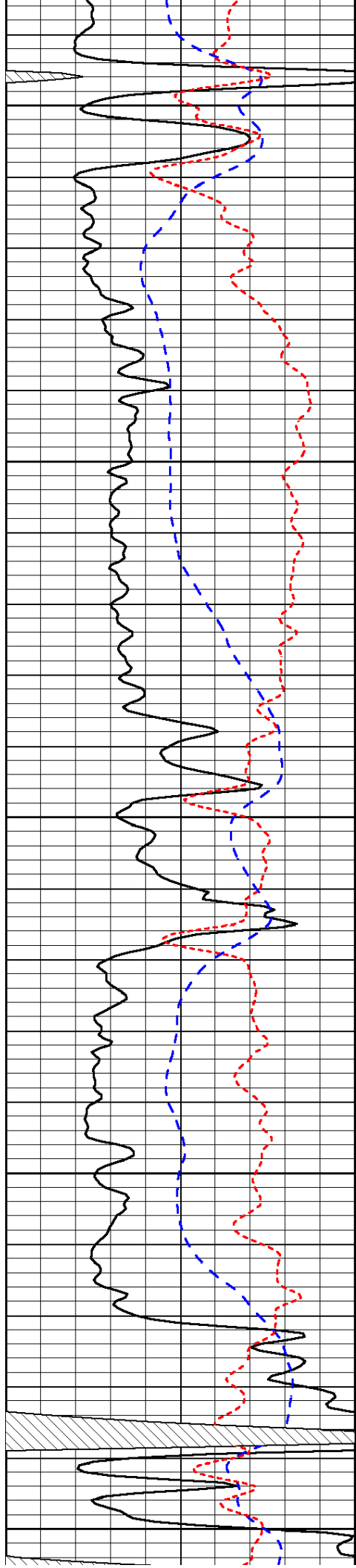






Database File: c:\warrior\data\toto_parkin lot #1\toto_parkinlot_1hd.db
 Dataset Pathname: dil/totostck
 Presentation Format: dil
 Dataset Creation: Mon Mar 03 14:58:53 2014
 Charted by: Depth in Feet scaled 1:240





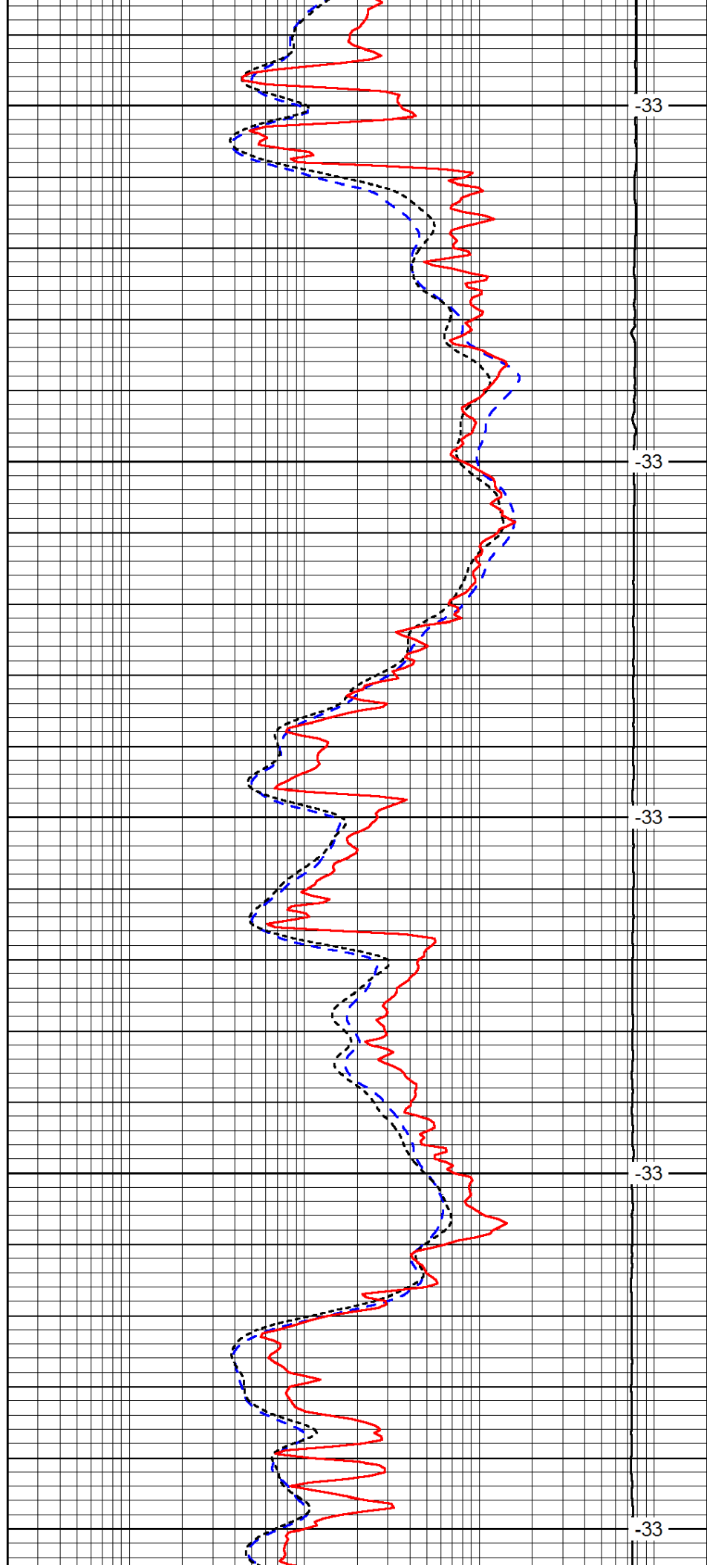
3950

4000

4050

4100

4150



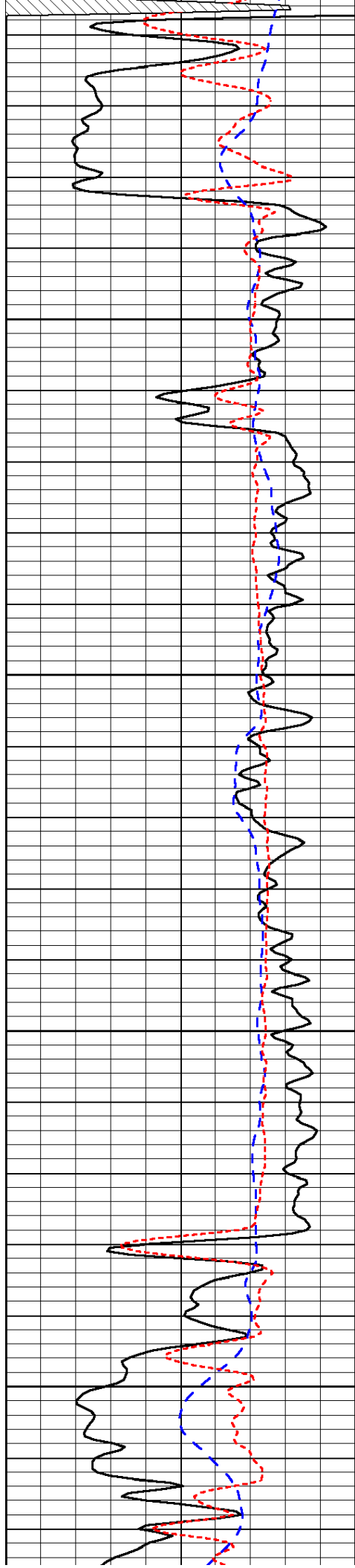
-33

-33

-33

-33

-33



4200

4250

4300

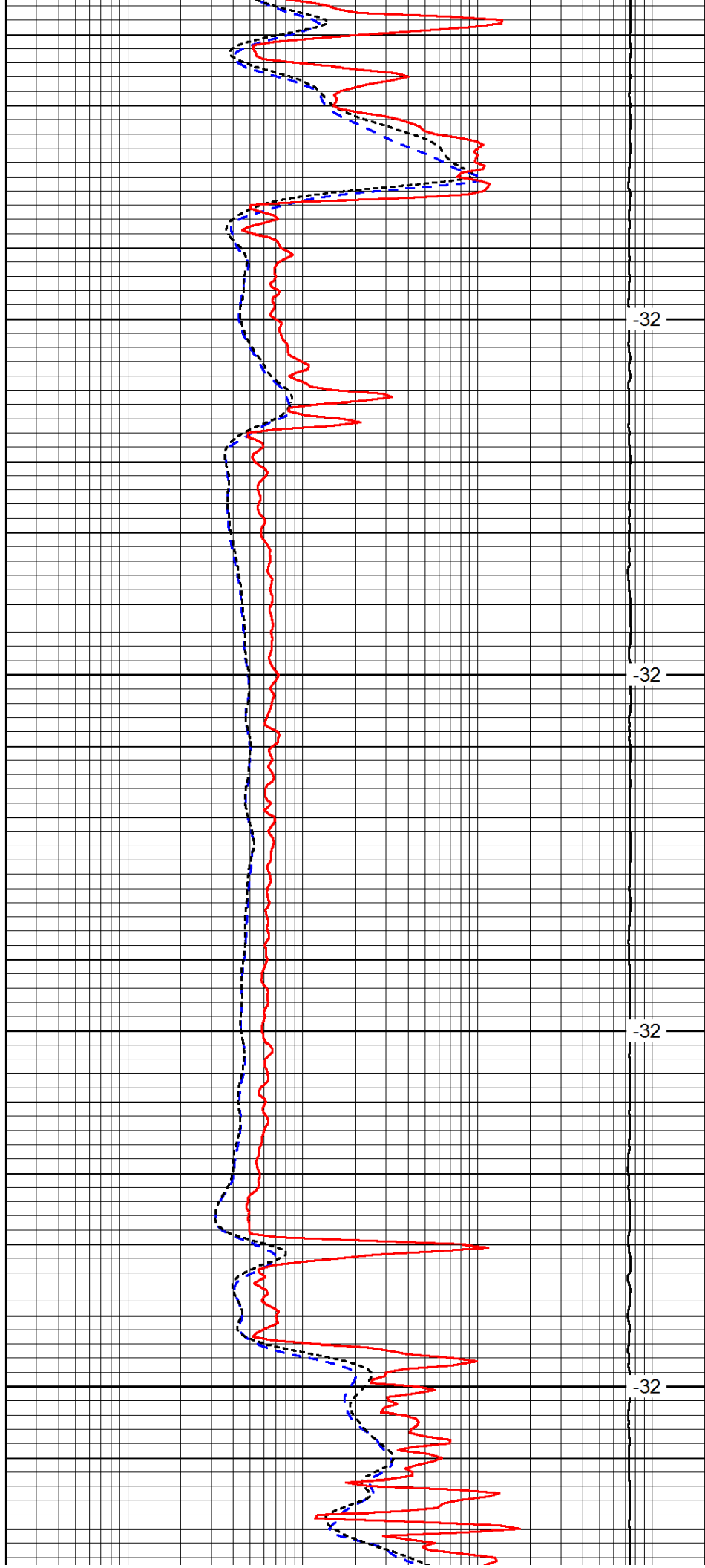
4350

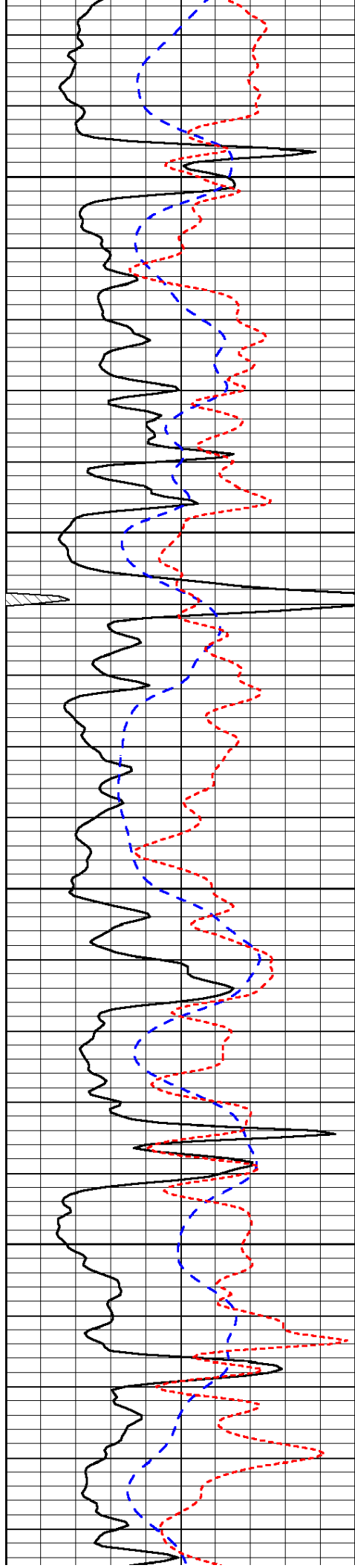
-32

-32

-32

-32



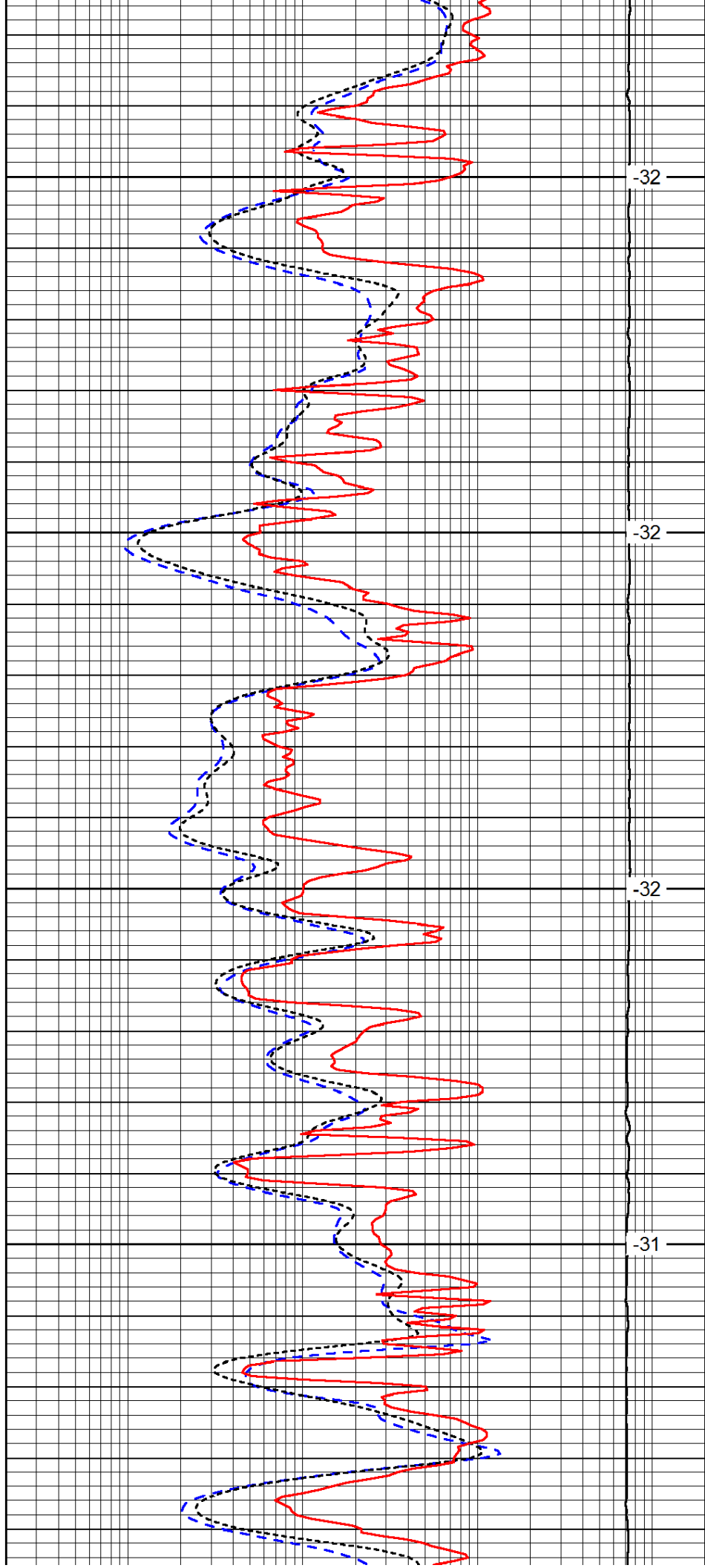


4400

4450

4500

4550

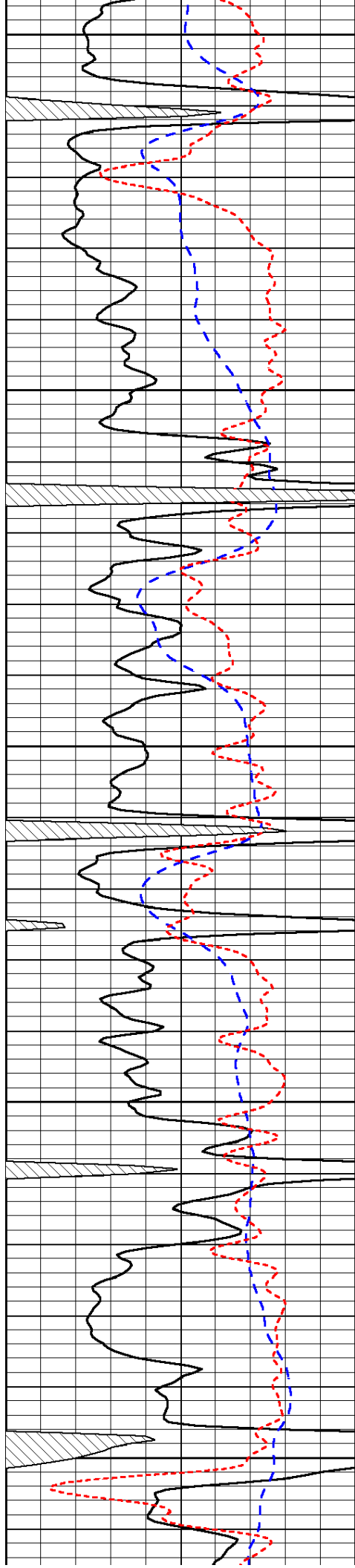


-32

-32

-32

-31



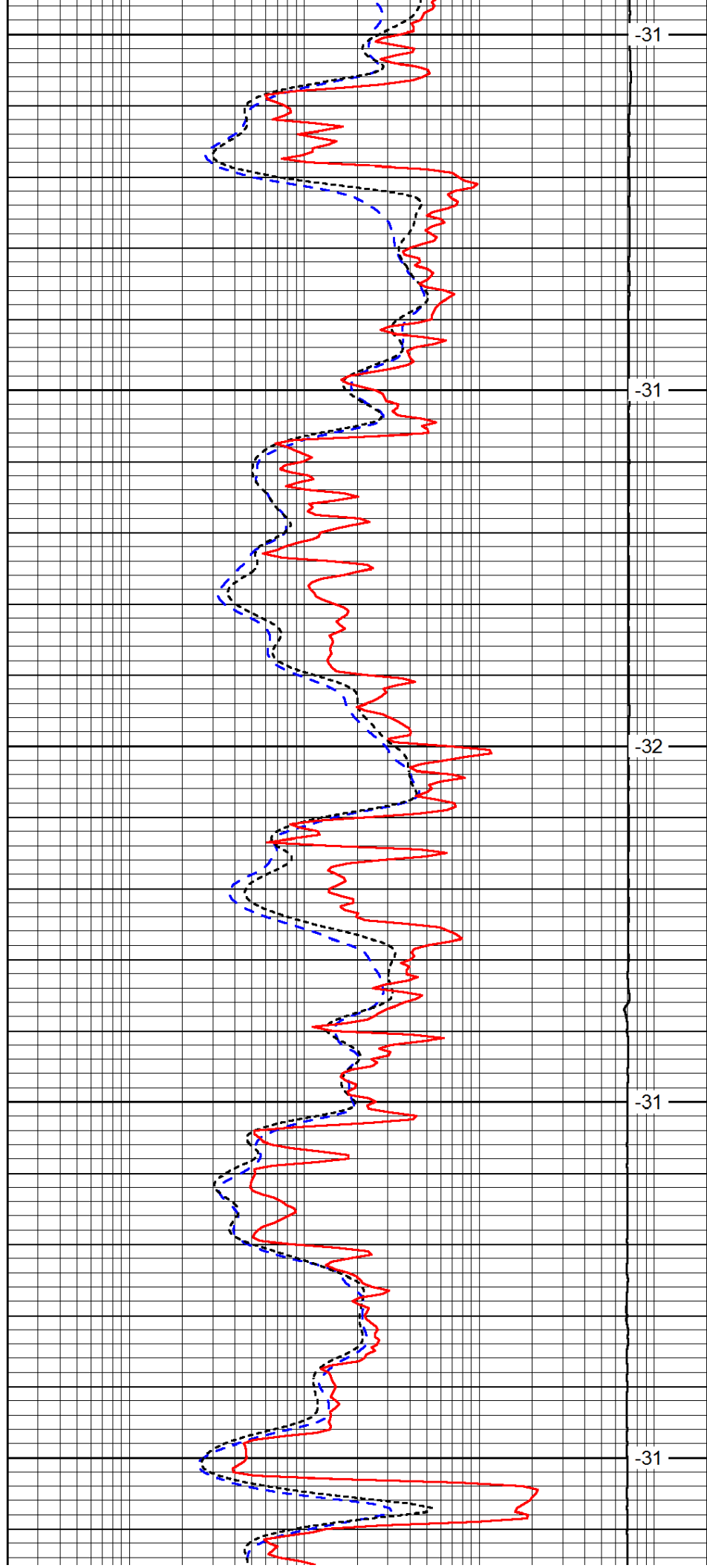
4600

4650

4700

4750

4800



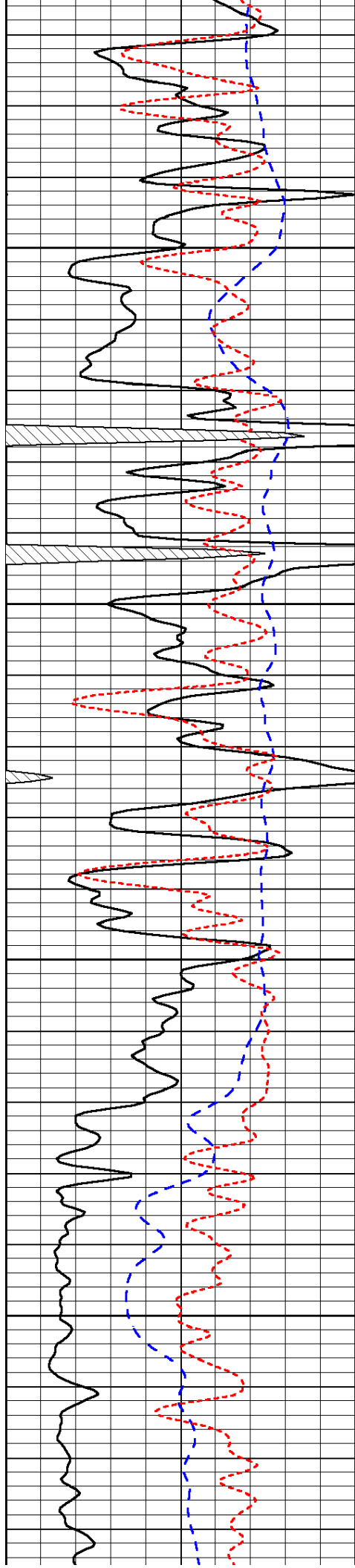
-31

-31

-32

-31

-31

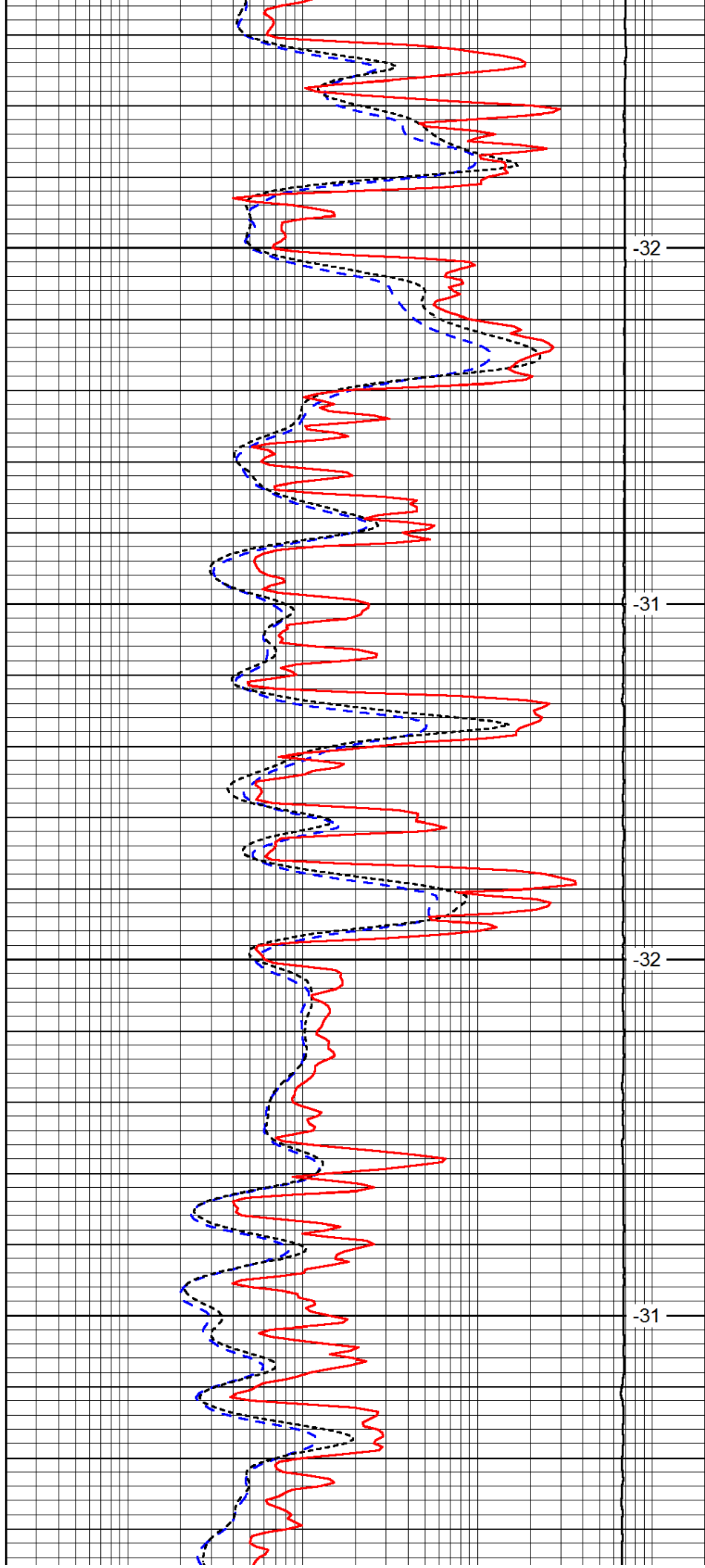


4850

4900

4950

5000

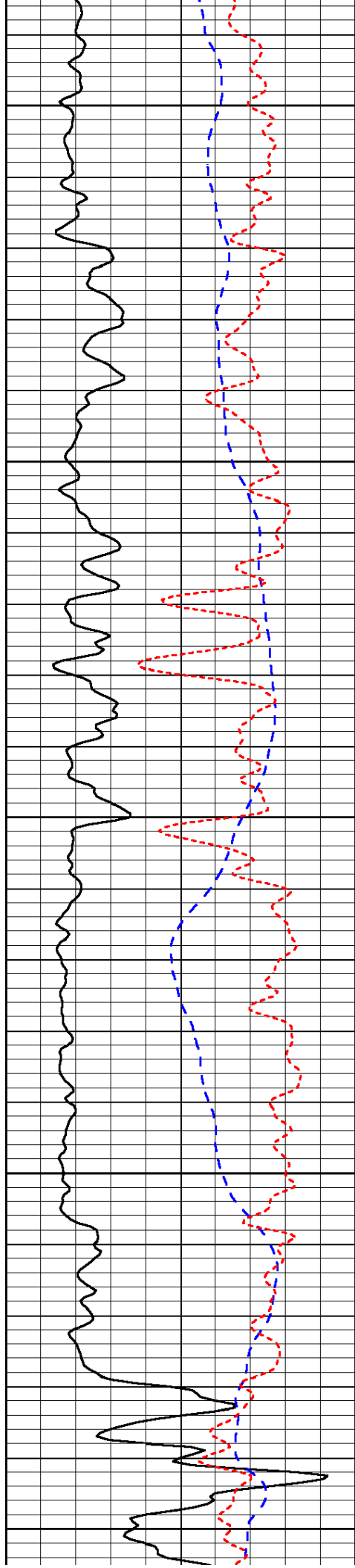


-32

-31

-32

-31



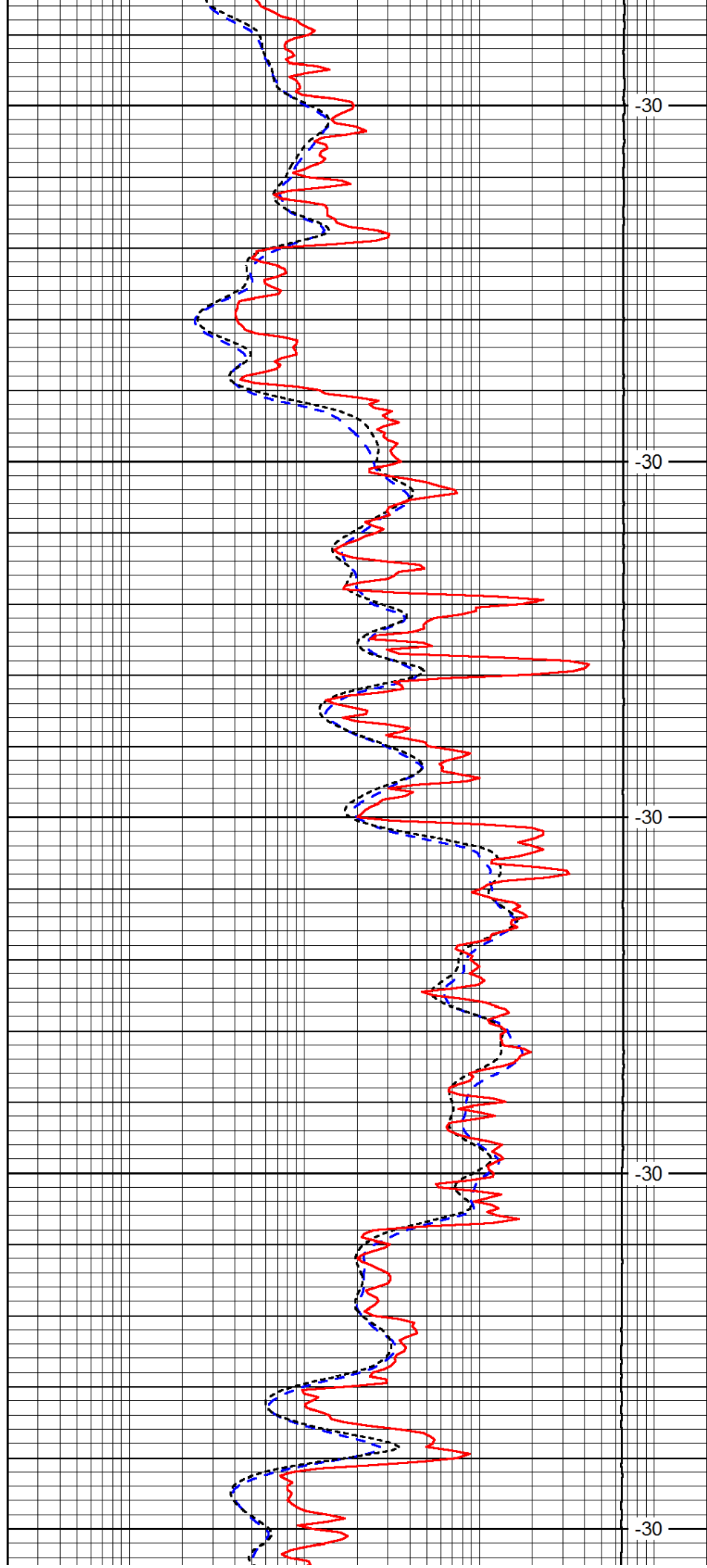
5050

5100

5150

5200

5250



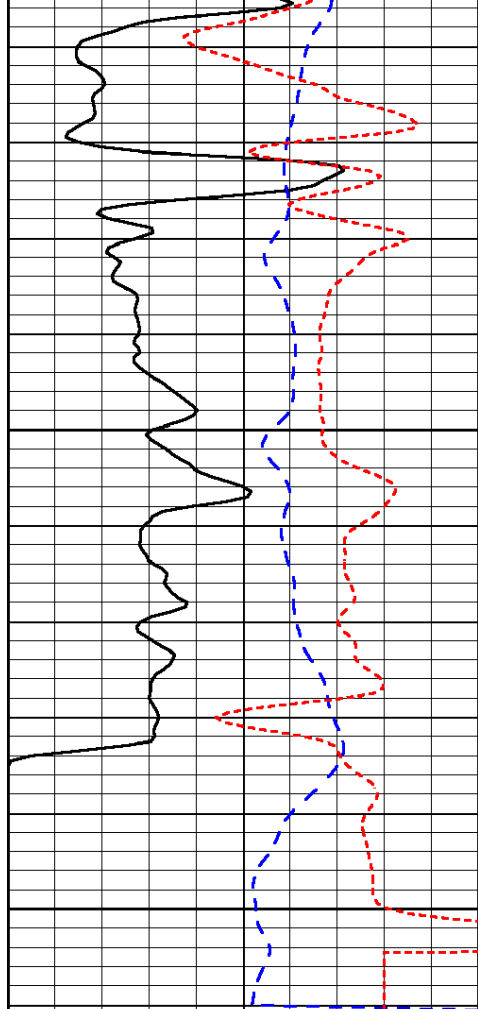
-30

-30

-30

-30

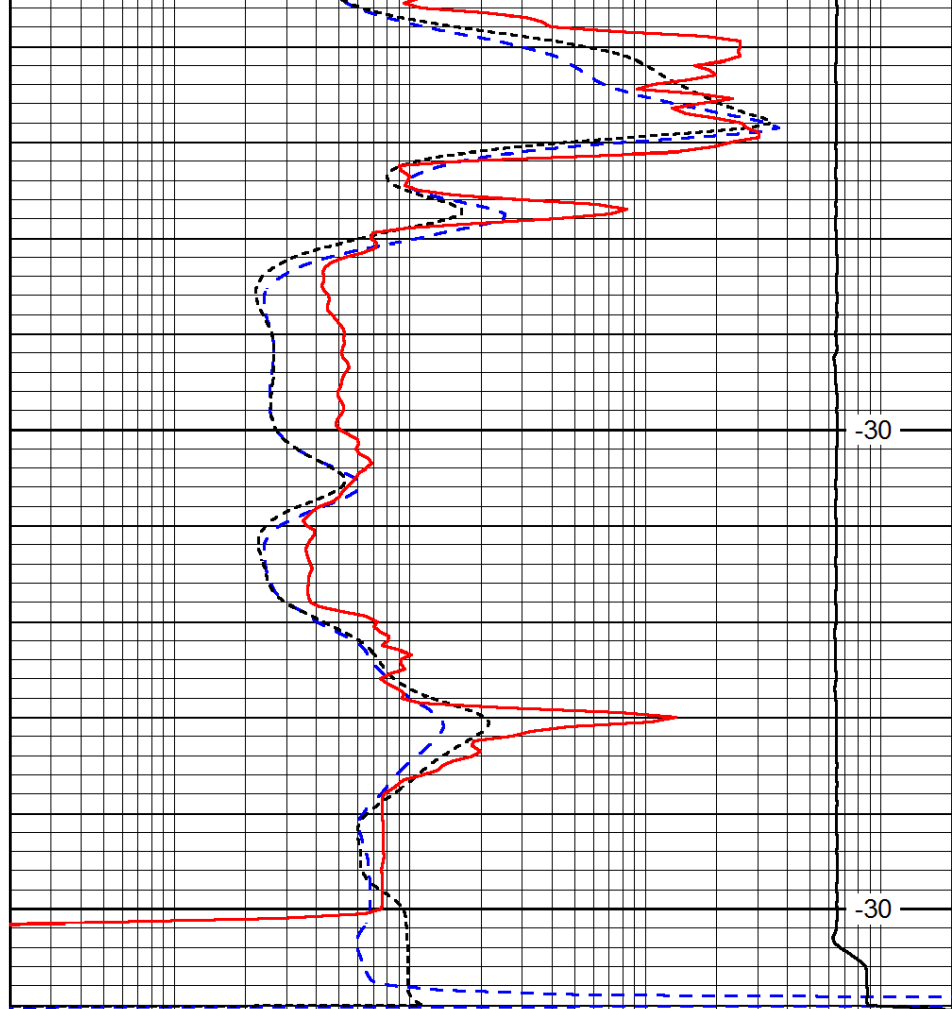
-30



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

5300

5350



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

LSPD