



Dual Induction Log

Pioneer Energy Services

API No.

15-051-26,709-00-00

Company TDI, Inc.

Well Paulette # 1

Field Unnamed

County Ellis State

Kansas

Location

W2-SE-SW-SE
330' FSL & 1925' FEL

Other Services
CNL/CDL
MEL

Sec: 22

Twp: 15S

Rge: 19W

Elevation

Permanent Datum

Ground Level

Elevation 1947

Log Measured From

Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From

From Kelly Bushing

Date

6/25/2014

Run Number

One

Depth Driller

3668

Depth Logger

3666

Bottom Logged Interval

3665

Top Log Interval

1100

Casing Driller

8.625 @ 1152

Casing Logger

1148

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

6.200

Density / Viscosity

9.2 54

pH / Fluid Loss

9.3 9.2

Source of Sample

Flowline

Rm @ Meas. Temp

.32 @ 78

Rmf @ Meas. Temp

.24 @ 78

Rmc @ Meas. Temp

.43 @ 78

Source of Rmf / Rmc

Charts

Rm @ BHT

.22 @ 113

Operating Rig Time

3 1/2 Hours

Max Rec. Temp. F

113

Equipment Number

17

Location

Hays

Recorded By

J. Hennickson

Witnessed By

Herb Deines

Tom Denning

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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.

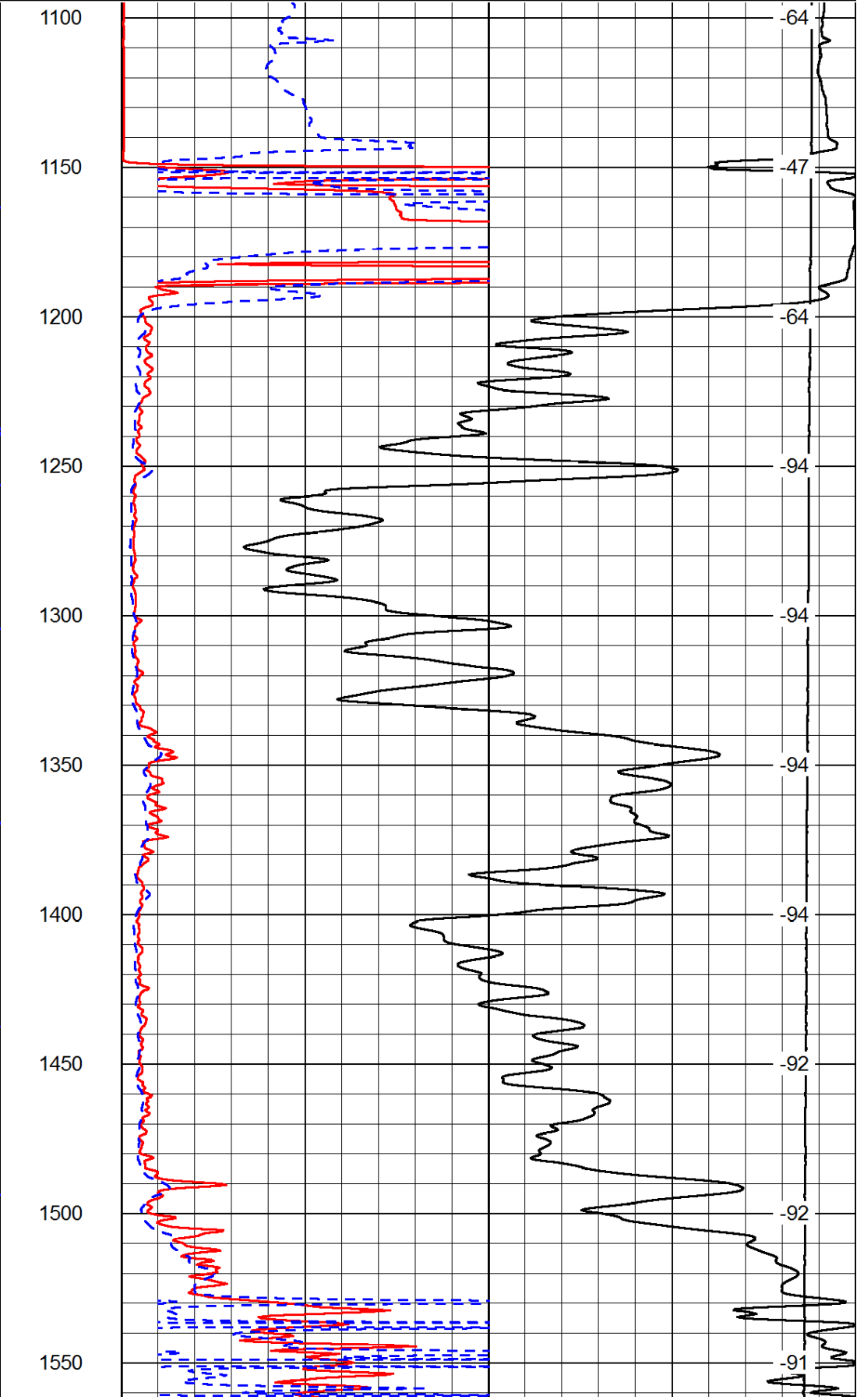
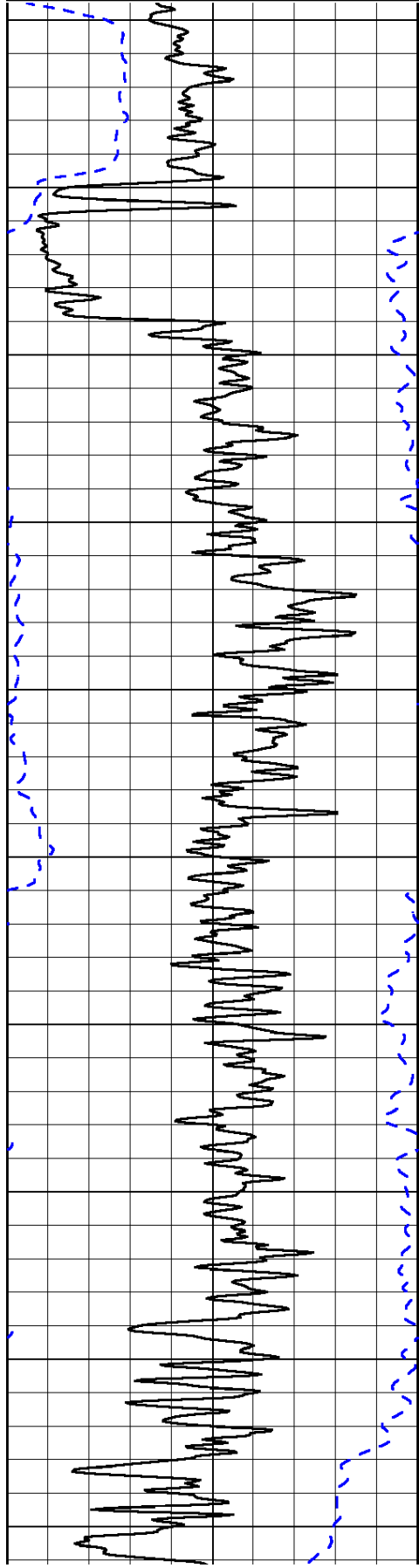
Comments

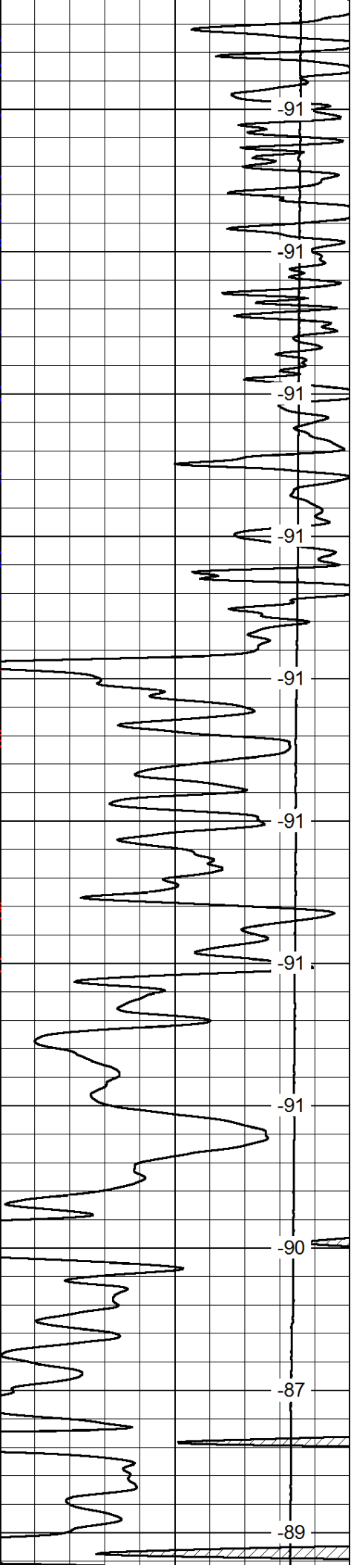
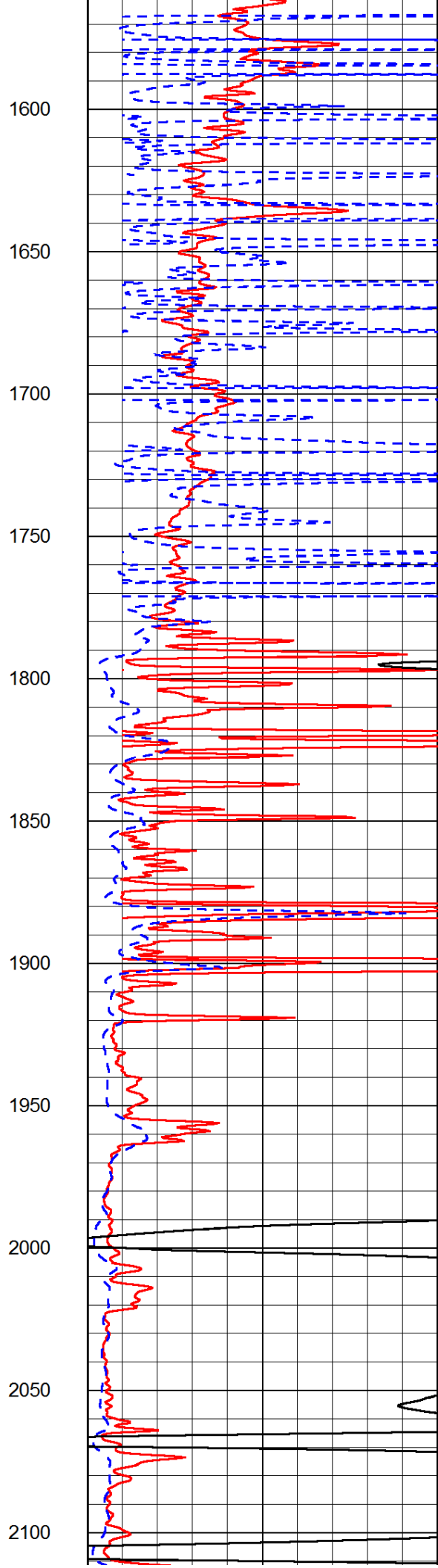
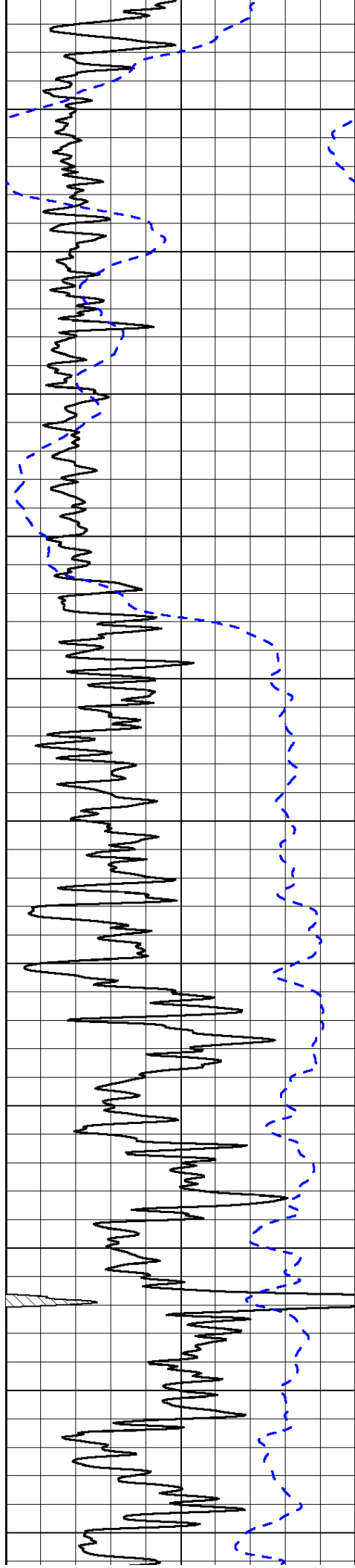
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

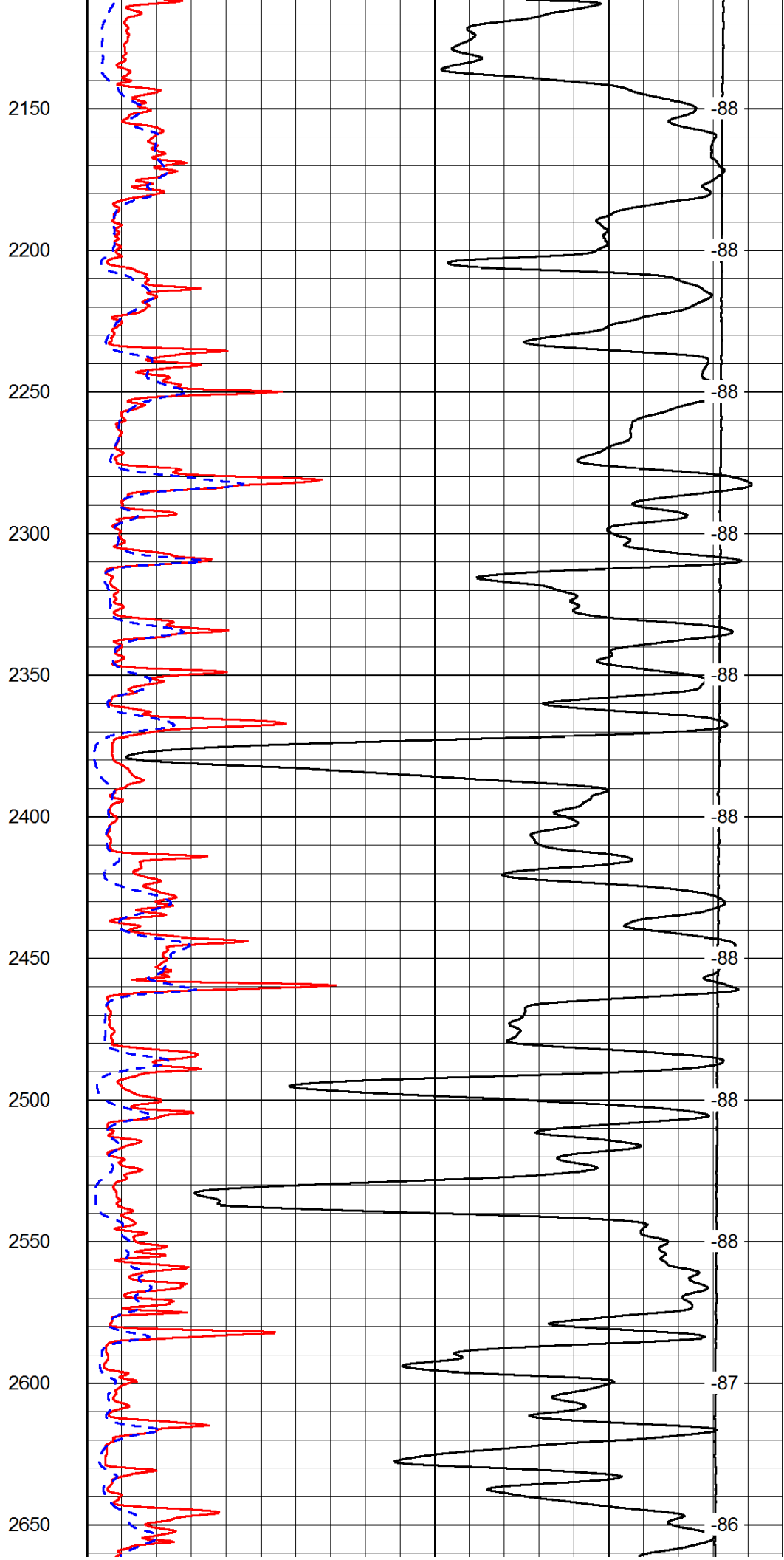
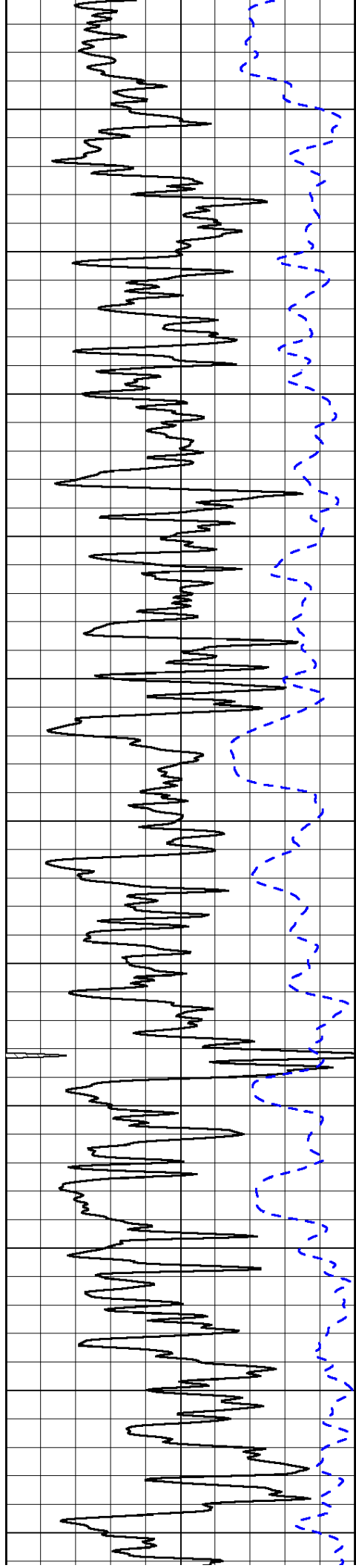
Antonino Kansas
1 West, 4 South, West Into

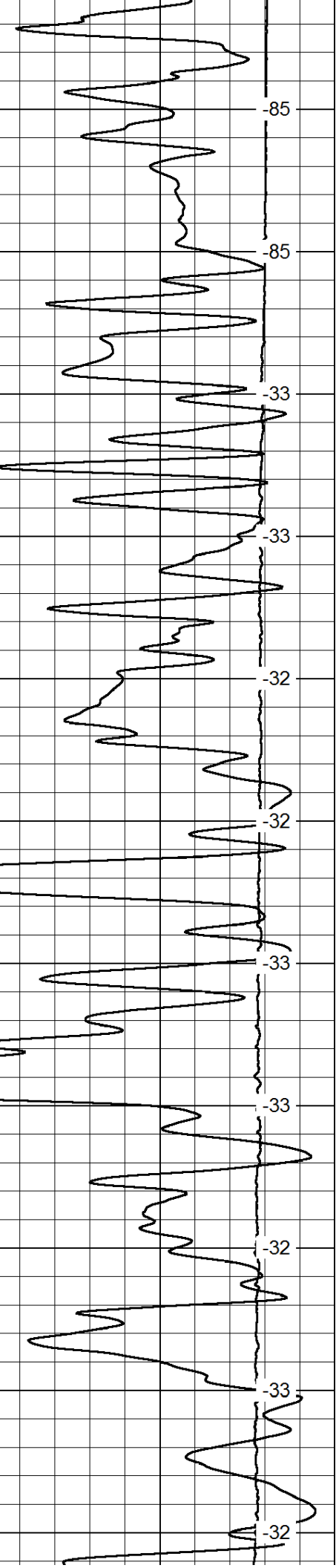
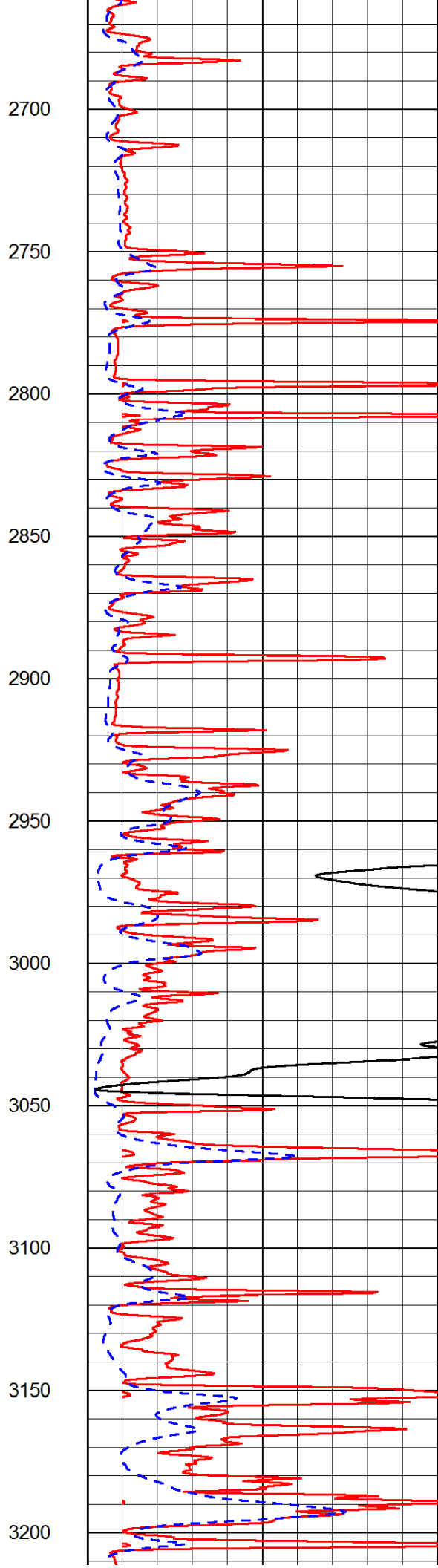
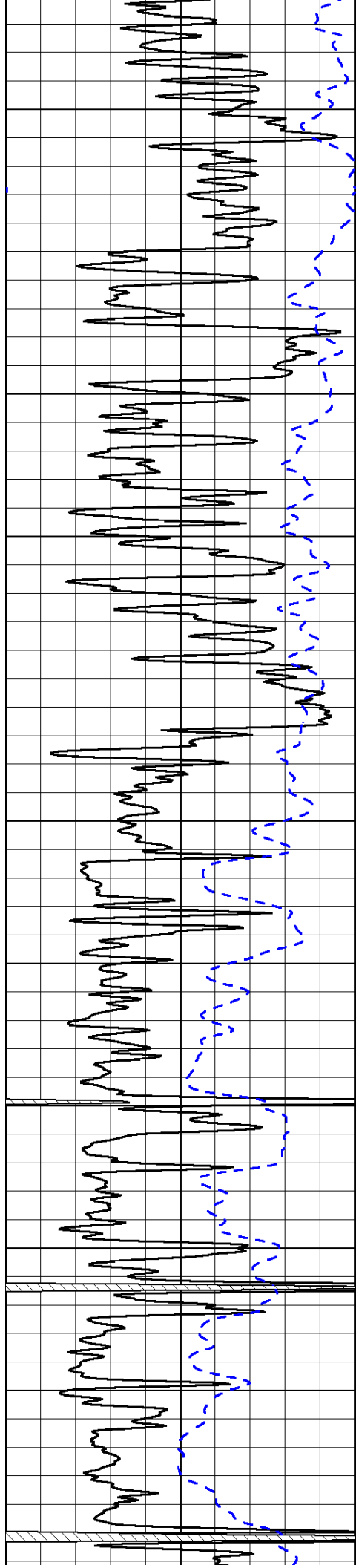
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Presentation Format: dil2in
Dataset Creation: Thu Jun 26 01:52:35 2014
Charted by: Depth in Feet scaled 1:600

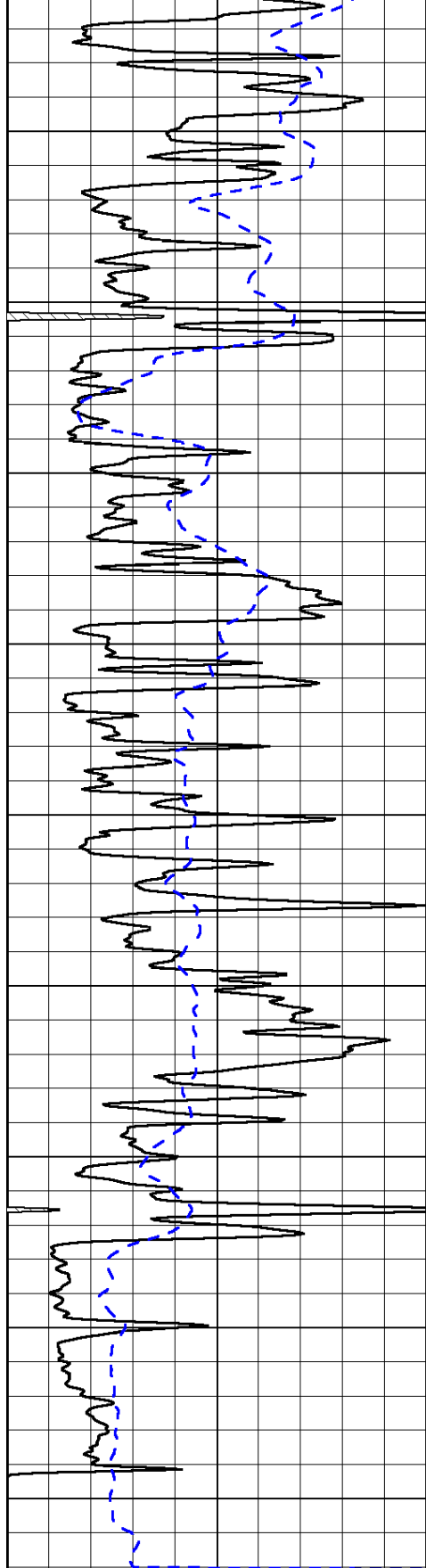
Charted by: Depth in Feet scaled 1:500								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			



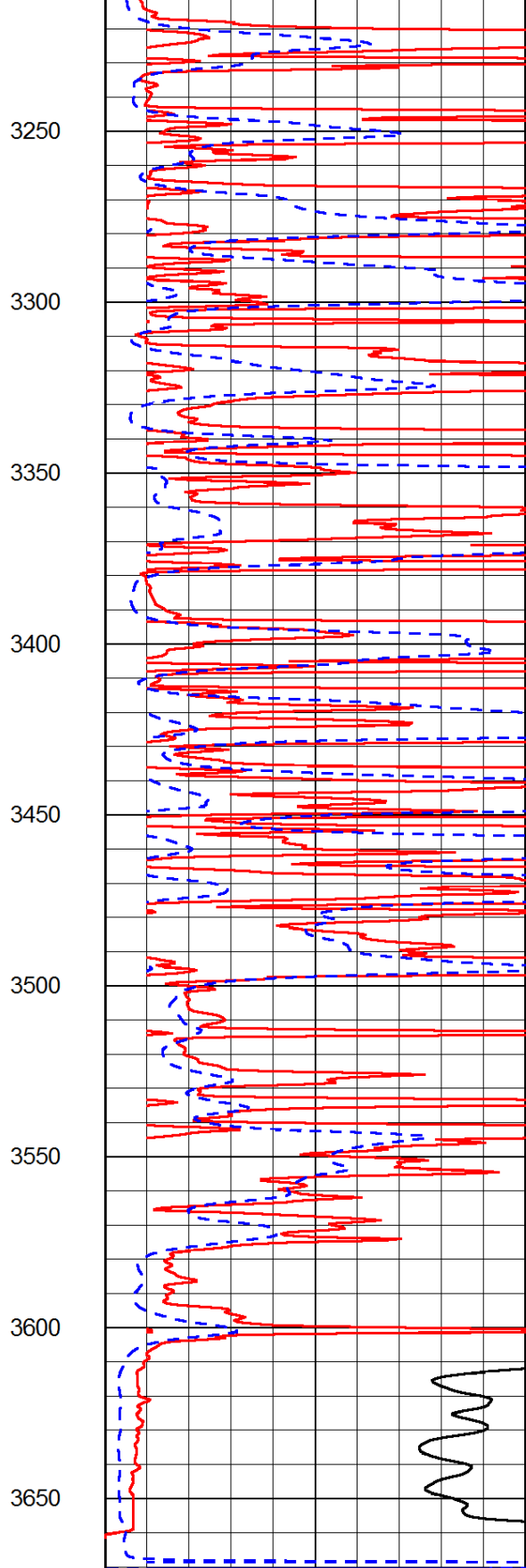




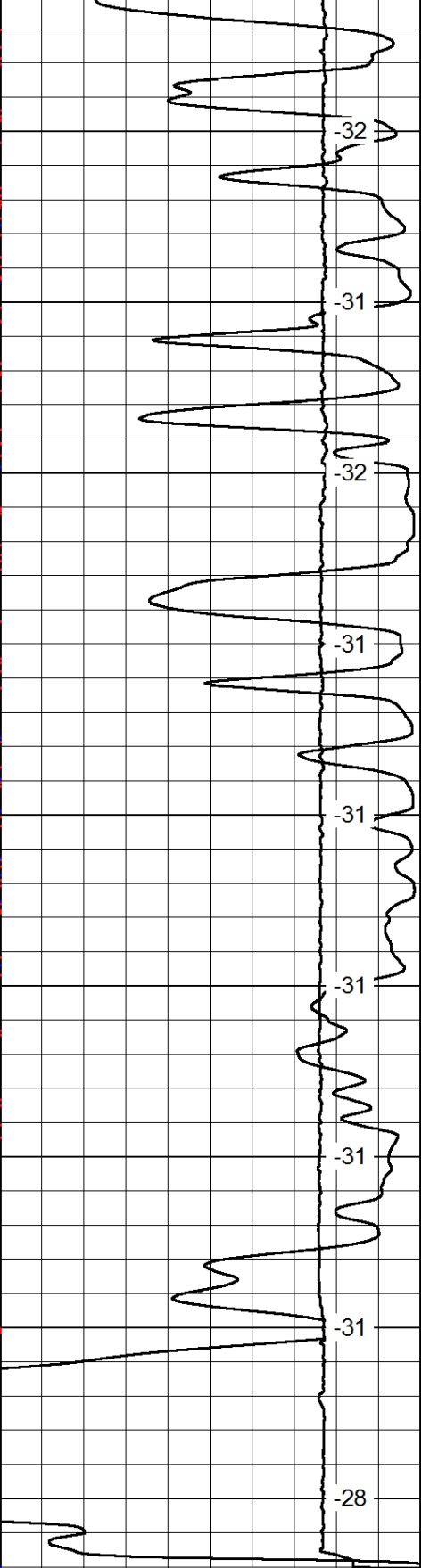




0 Gamma Ray 150
-200 SP (mV) 0



0 Shallow Resistivity 50
0 Deep Resistivity 50



LSPD

1000 Conductivity 0
15000 Line Tension 0

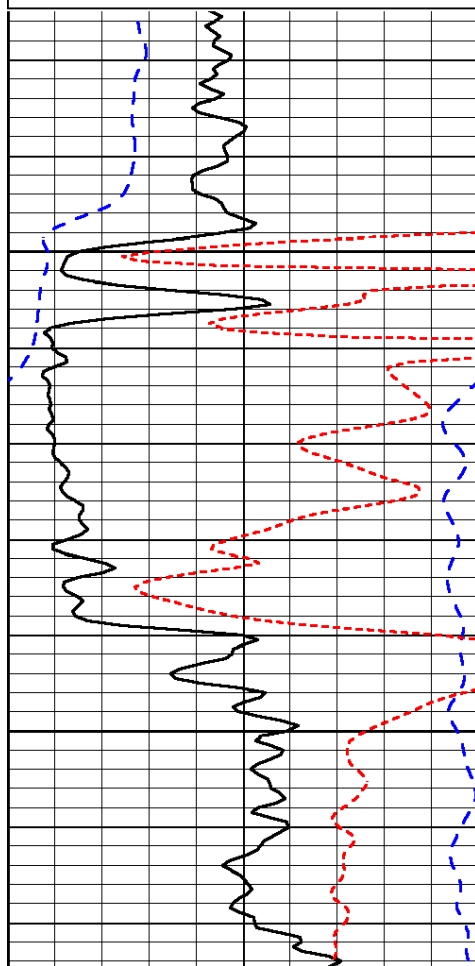
50 Shallow Resistivity 500
50 Deep Resistivity 500

Database File: c:\warrior\data\tdi_paulette # 1\tdi_paulette_1hd.db
Dataset Pathname: DIL/tdistk
Presentation Format: dil
Dataset Creation: Thu Jun 26 01:52:35 2014
Charted by: Depth in Feet scaled 1:240

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

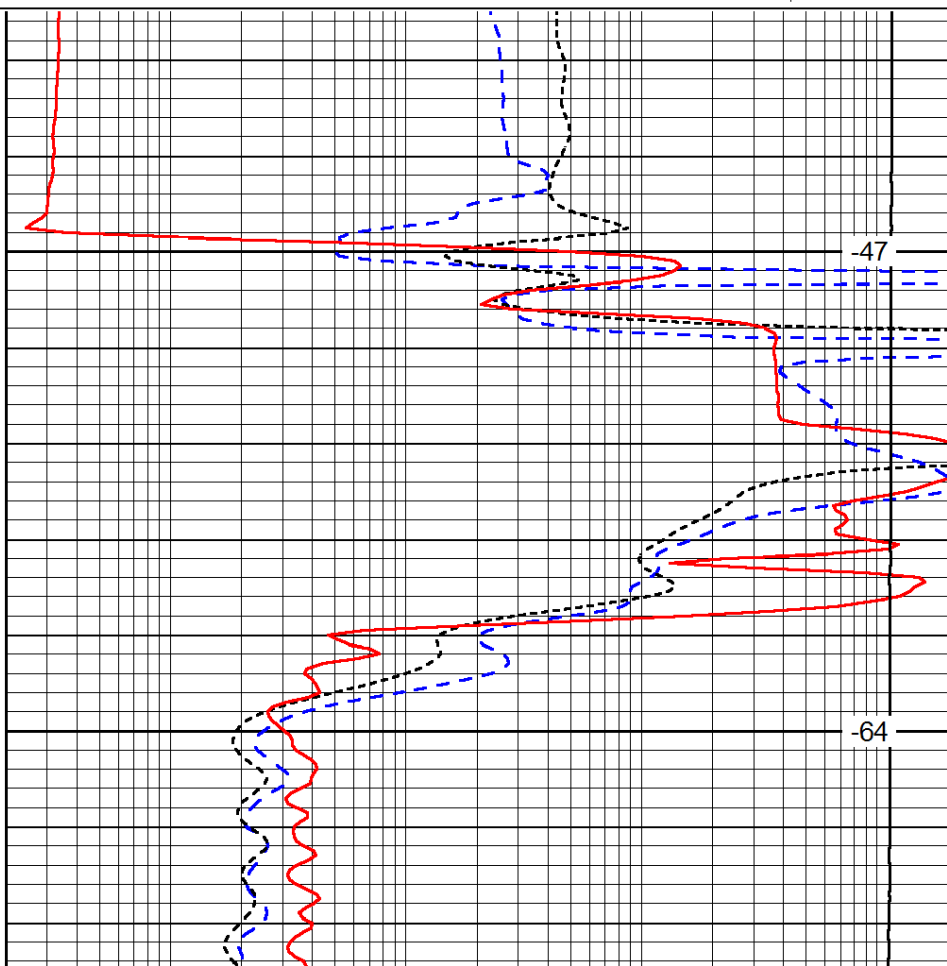
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



1150

1200



-47

-64

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

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

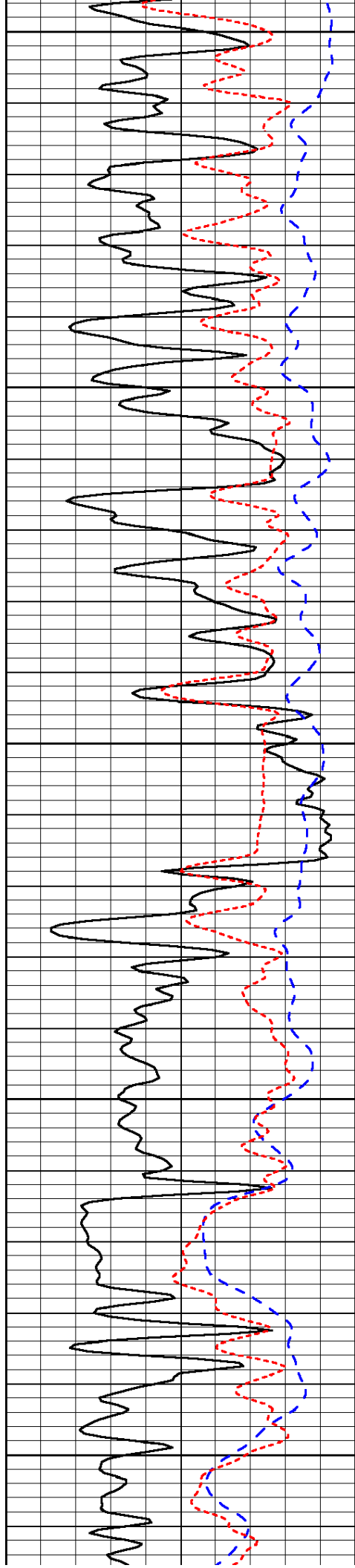
LSPD

Database File: c:\warrior\data\tdi_paulette # 1\tdi_paulette_1hd.db
Dataset Pathname: DIL/tdistk
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

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

LSPD



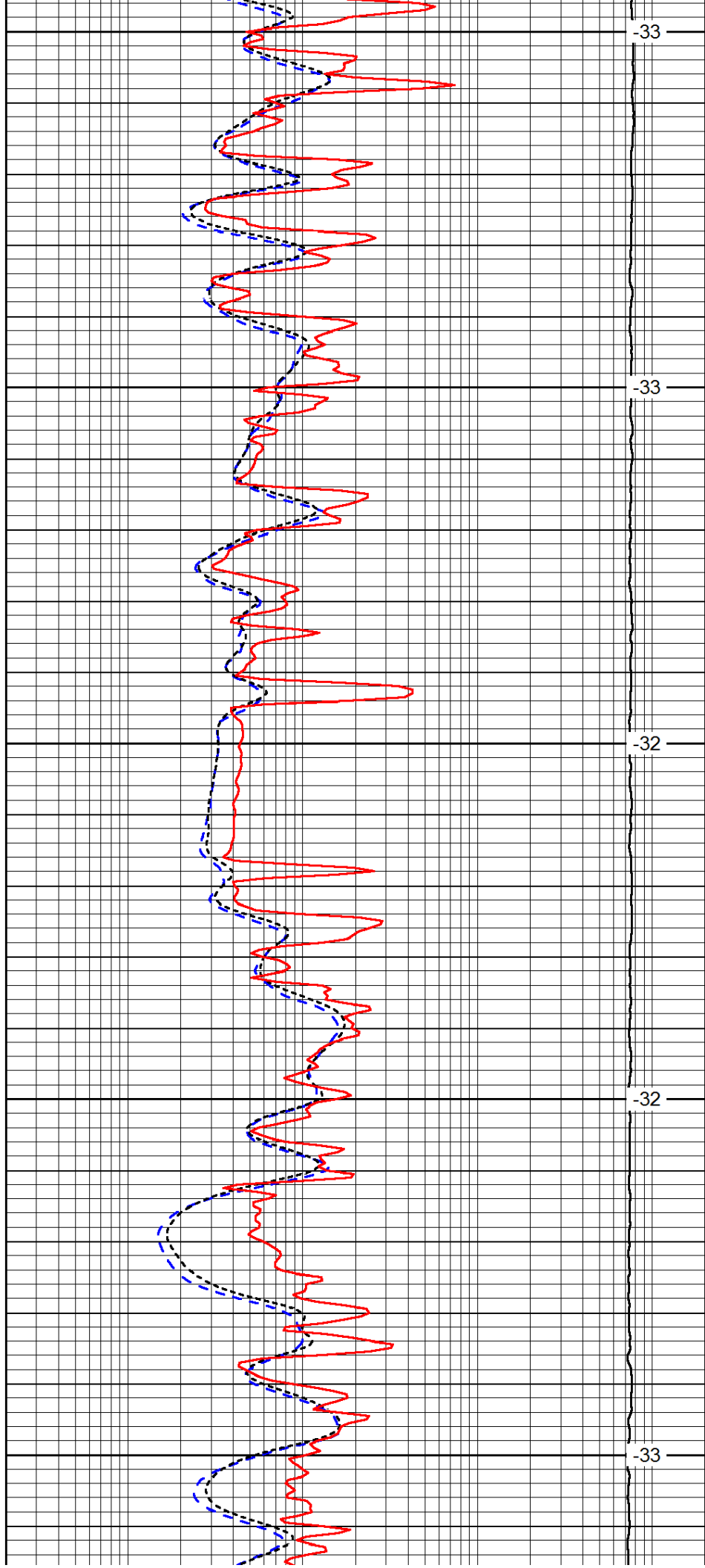
2800

2850

2900

2950

3000



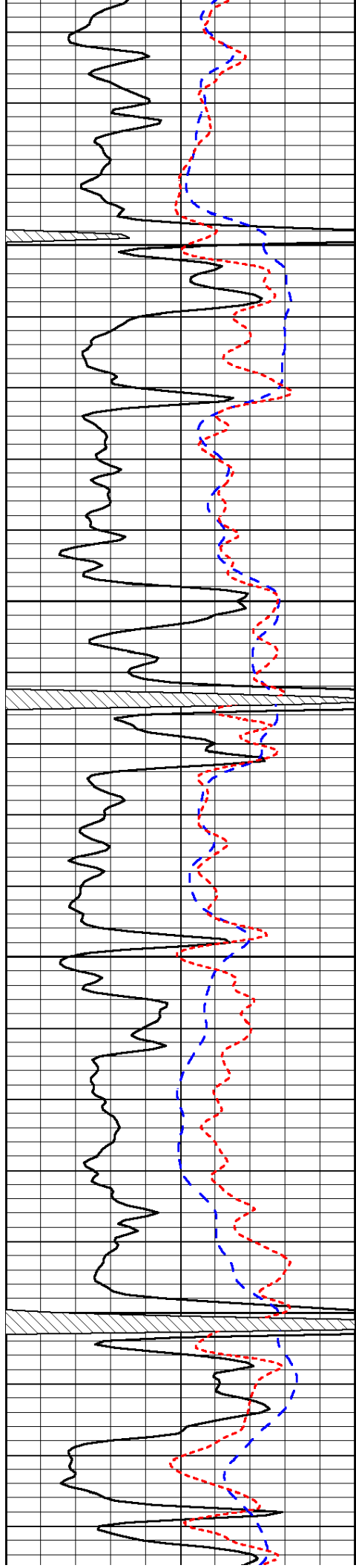
-33

-33

-32

-32

-33

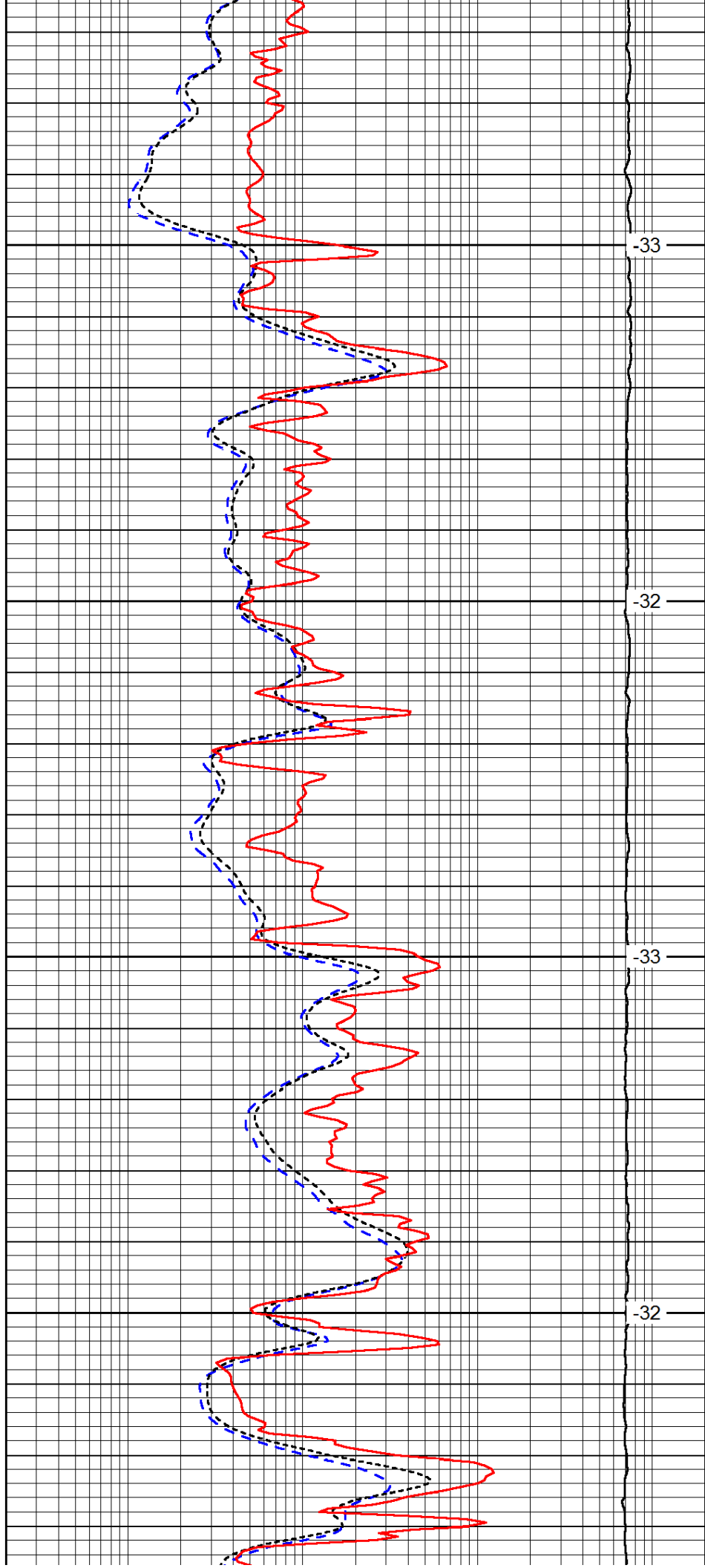


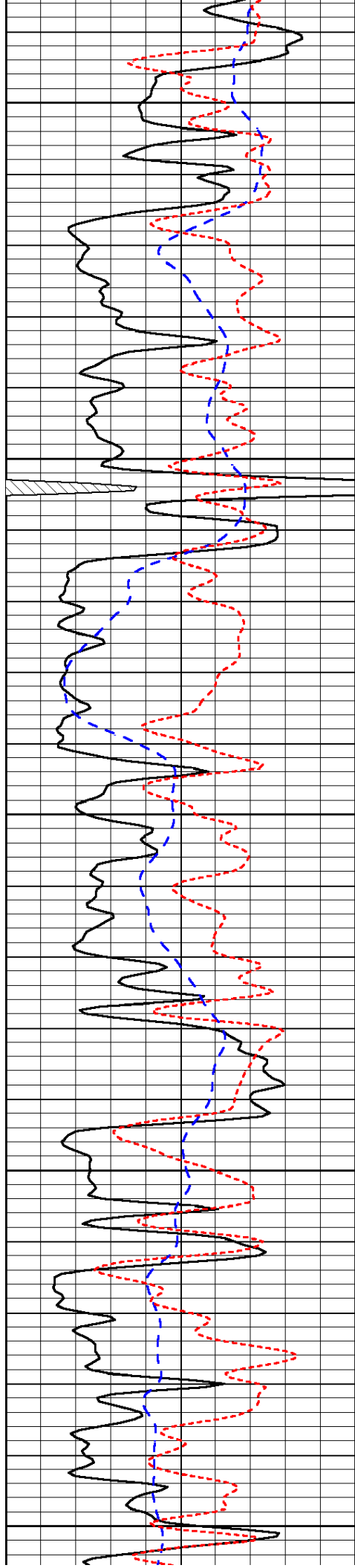
3050

3100

3150

3200





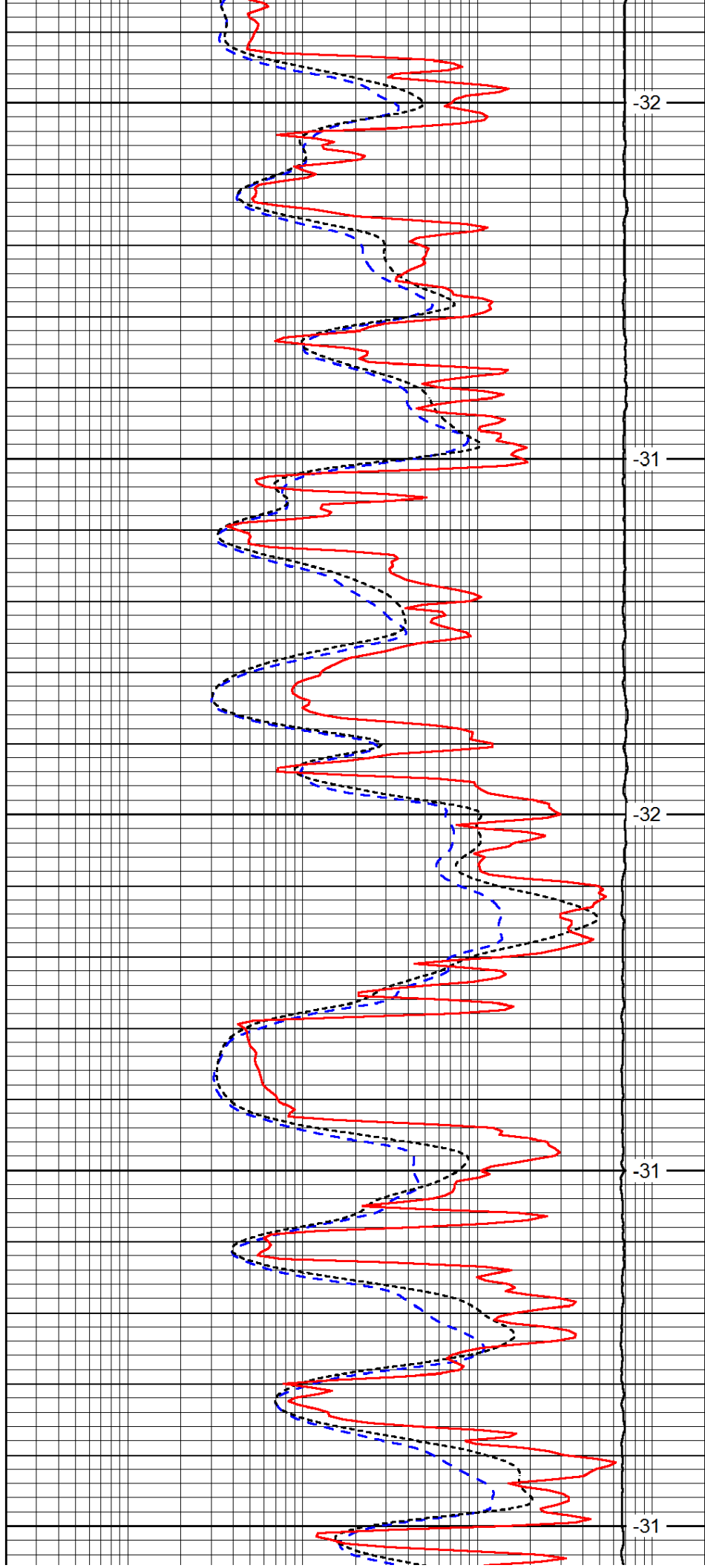
3250

3300

3350

3400

3450



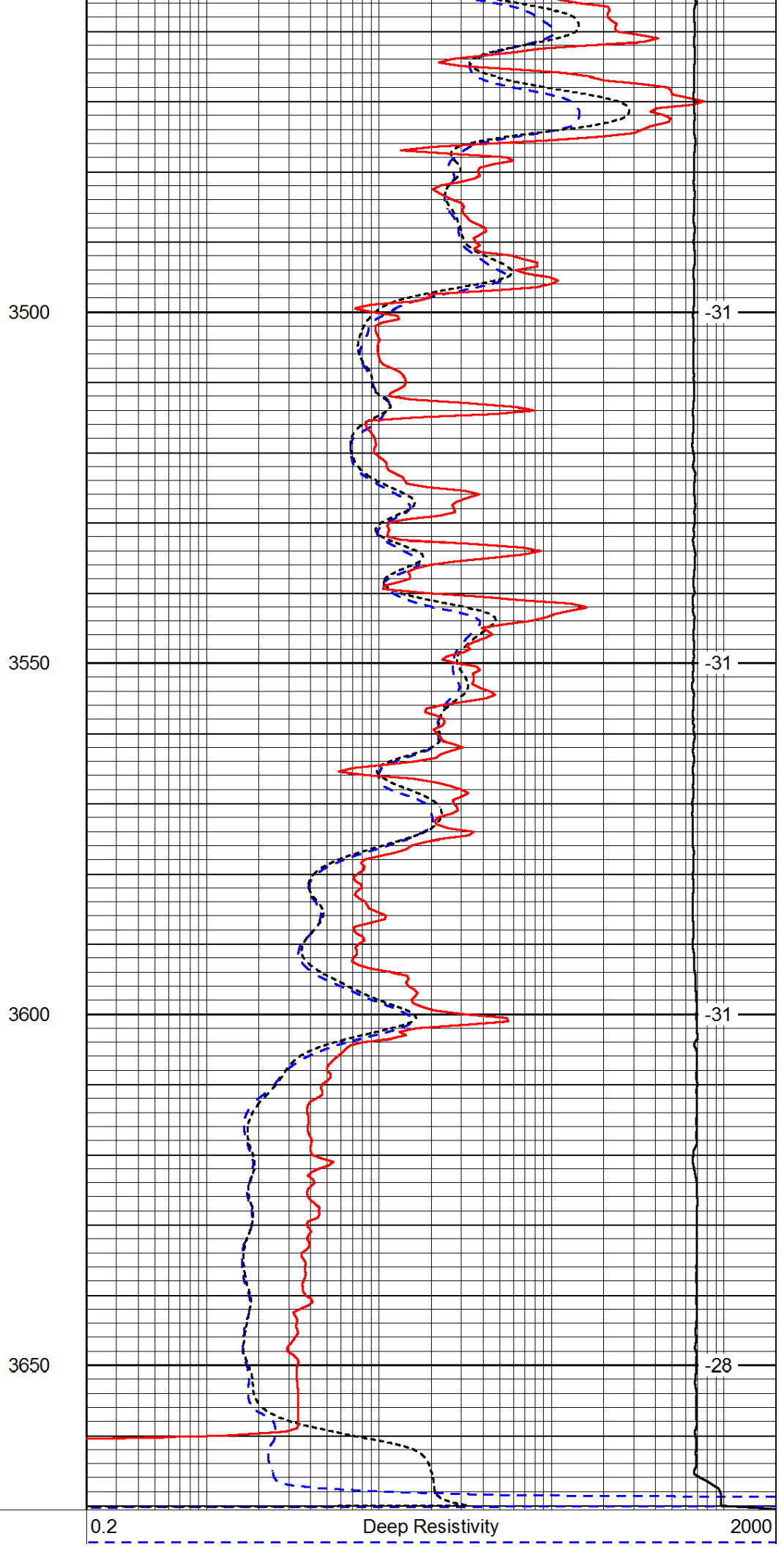
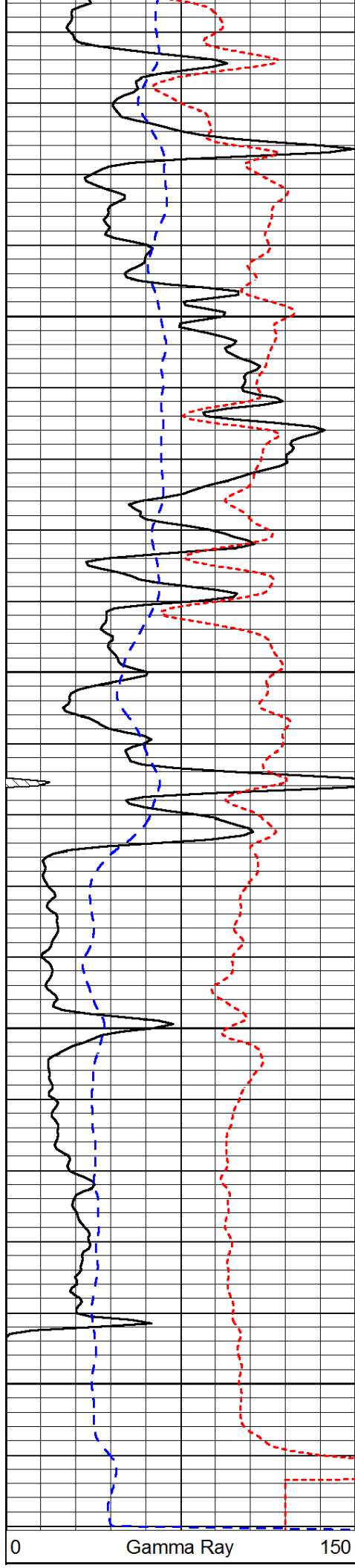
-32

-31

-32

-31

-31



-200	SP (mV)	0
-160	RxoRt	40

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