



Dual Induction Log

Pioneer Energy Services

API No.

15-009-25,754-00-00

Company L.D. Drilling, Inc.

Well Hammeke-Mary S Unit #1-9

Field Knop

County Barton

State

Kansas

Location

2350' FNL & 850' FEL

Sec: 9

Twp: 19S

Rge: 12W

Elevation

Permanent Datum

Ground Level

Elevation 1824

Log Measured From

Kelly Bushing

K.B. 1829

Drilling Measured From

From Kelly Bushing

D.F. 1824

Date

10/1/2012

Run Number

One

Depth Driller

3434

Depth Logger

3433

Bottom Logged Interval

3432

Top Log Interval

300

Casing Driller

8.625 @ 305

Casing Logger

311

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

30,000

Density / Viscosity

9.3 56

pH / Fluid Loss

8.5 28.0

Source of Sample

Flowline

Rm @ Meas. Temp

.65 @ 68

Rmf @ Meas. Temp

.49 @ 68

Rmc @ Meas. Temp

.88 @ 68

Source of Rmf / Rmc

Charts

Rm @ BHT

.4 @ 110

Operating Rig Time

3 1/2 Hours

Max Rec. Temp. F

110

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Josh Austin

<<< 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

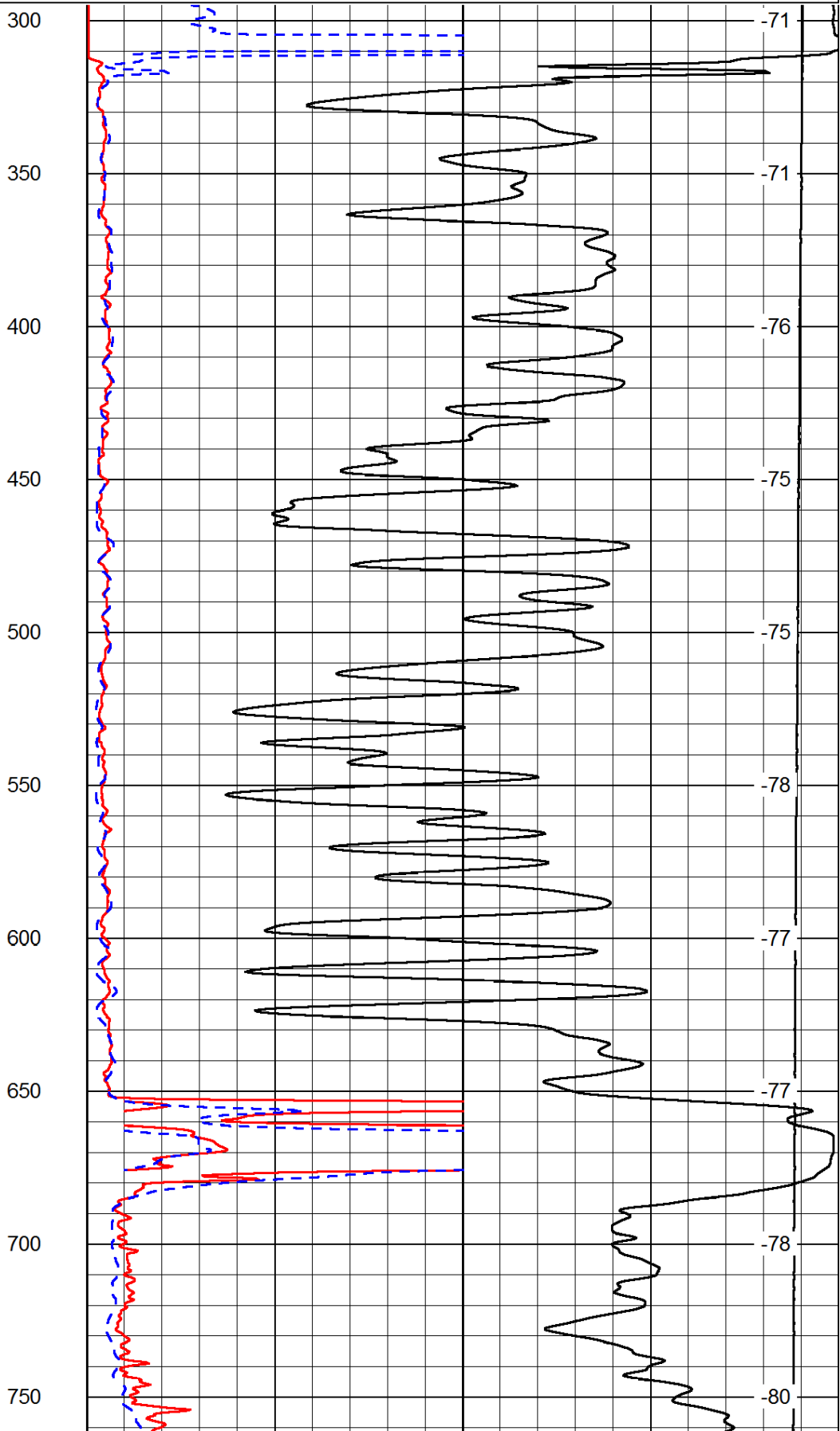
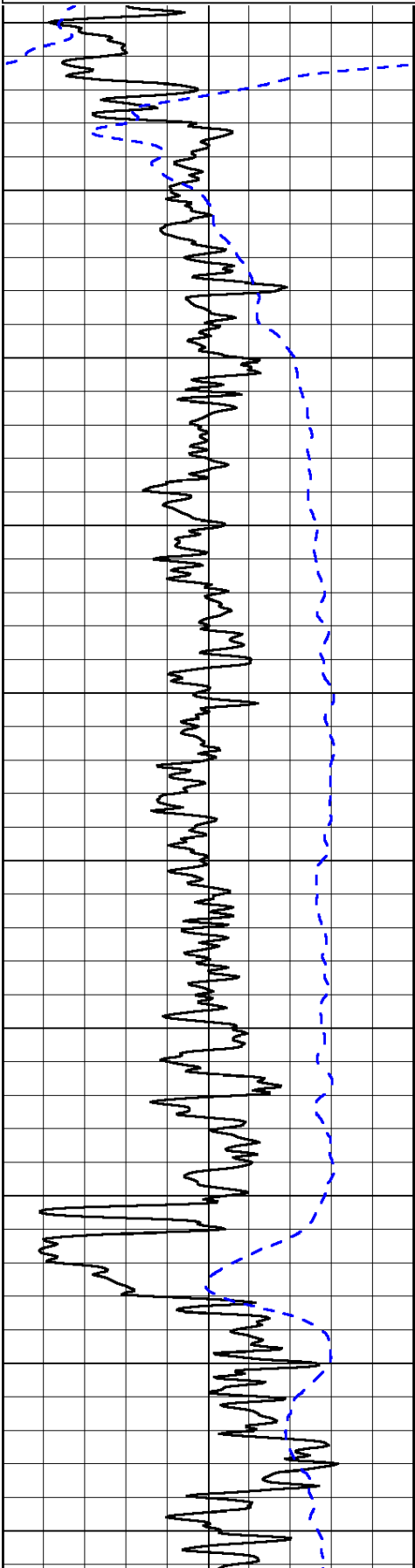
Thank you for using Pioneer Energy Services
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785 625 3858

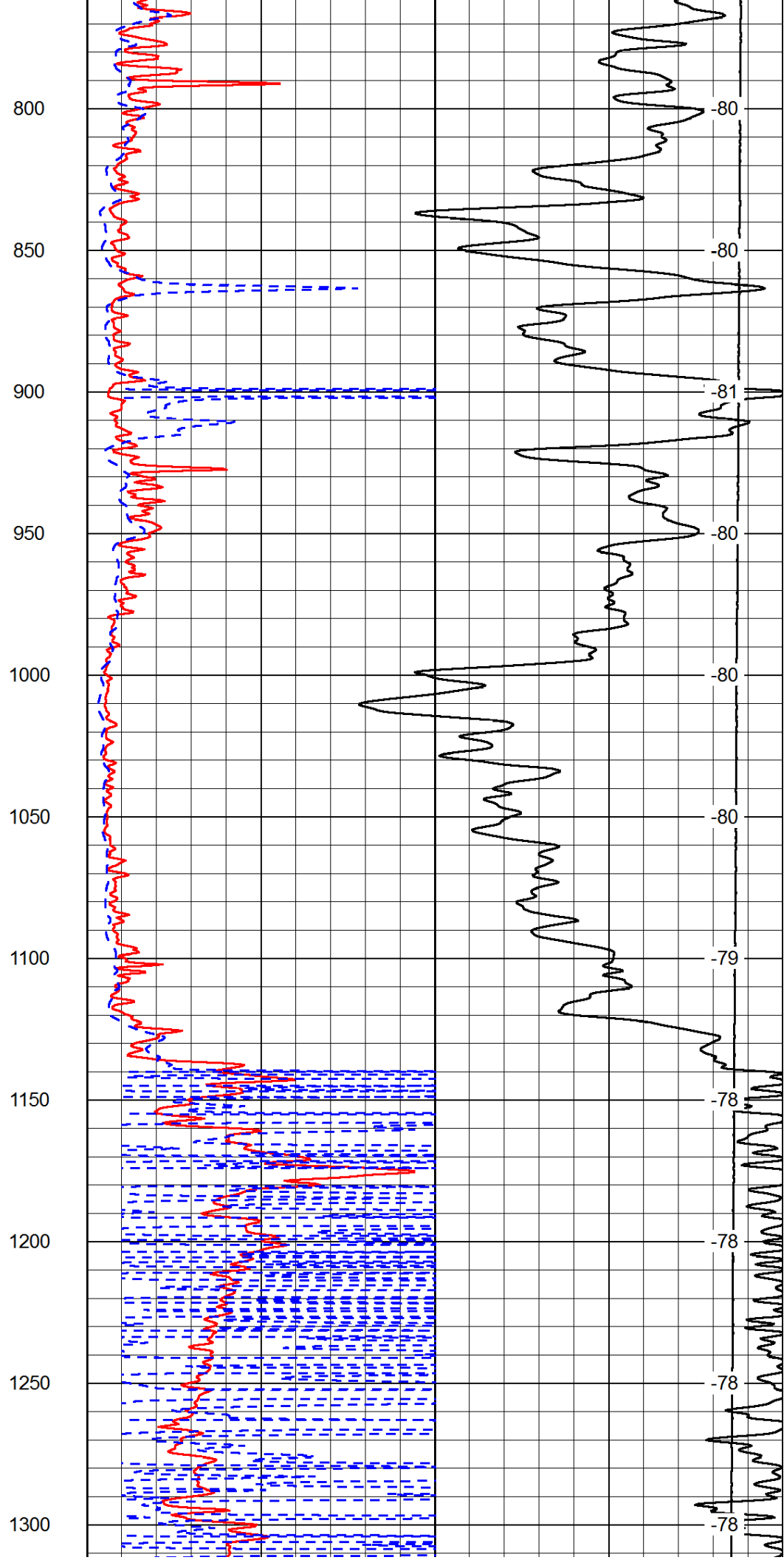
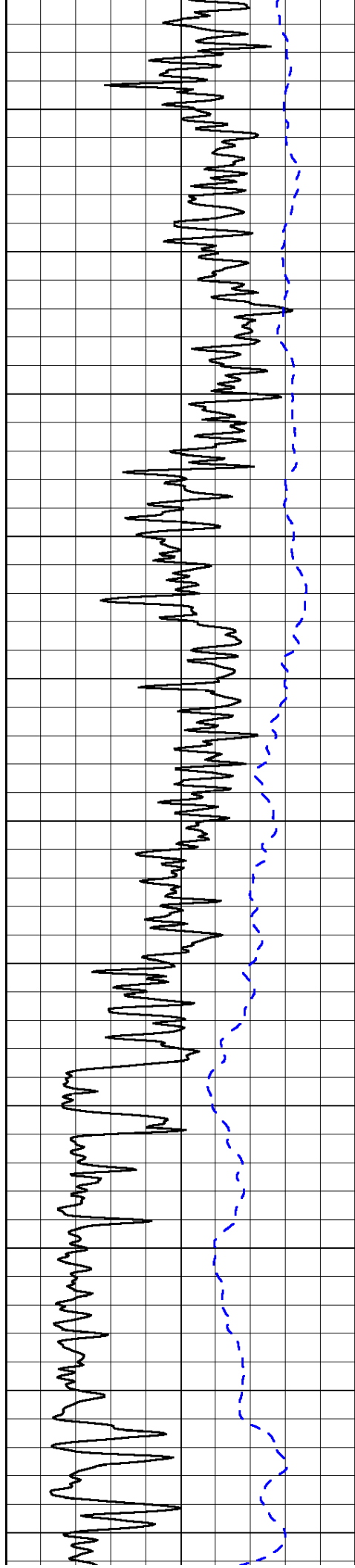
Hoisington KS, S to 30 Rd(College Rd)
E to Hwy 156, 1 E, 1/2 N, W Into

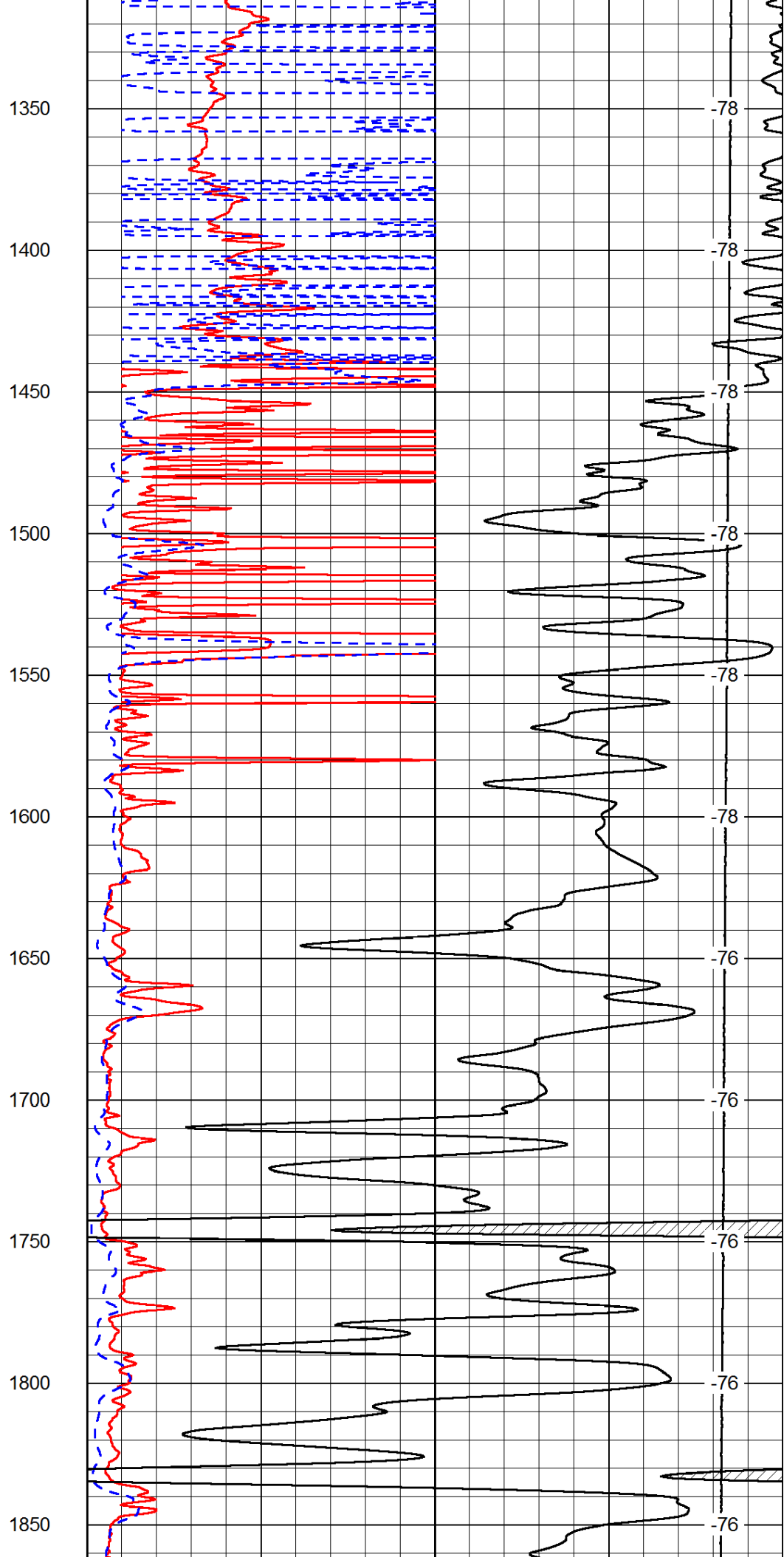
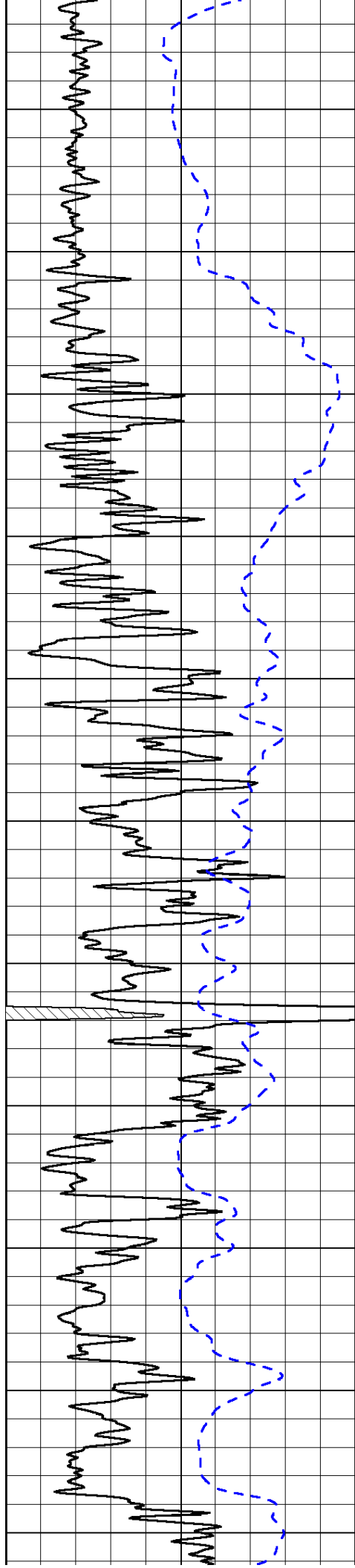
Database File: c:\warrior\data\ld drilling_hammeke-mary s unit #1-9\ldhd.db
Dataset Pathname: dil\ldstk
Presentation Format: dil2in
Dataset Creation: Mon Oct 01 16:11:57 2012
Charted by: Depth in Feet scaled 1:600

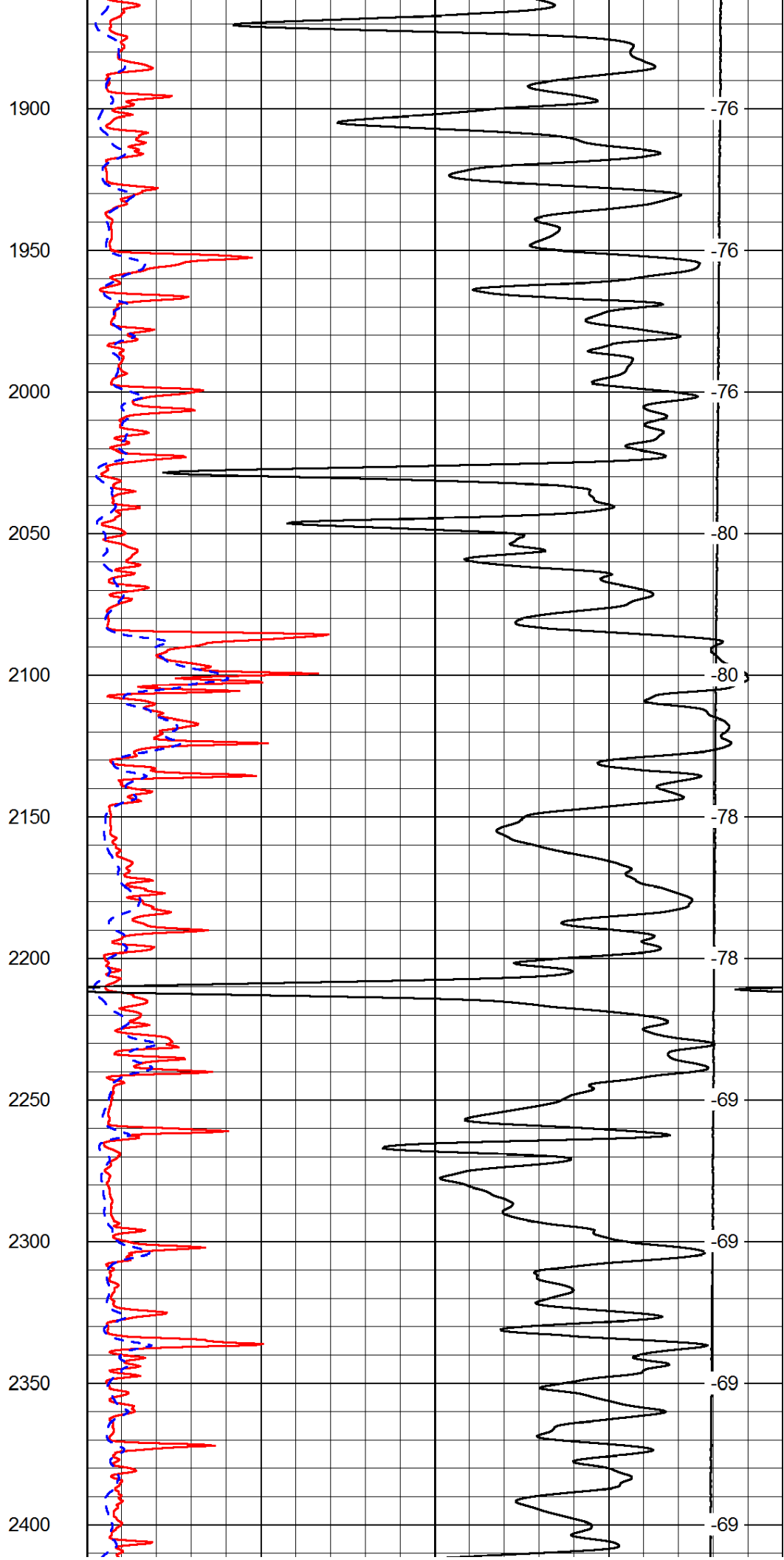
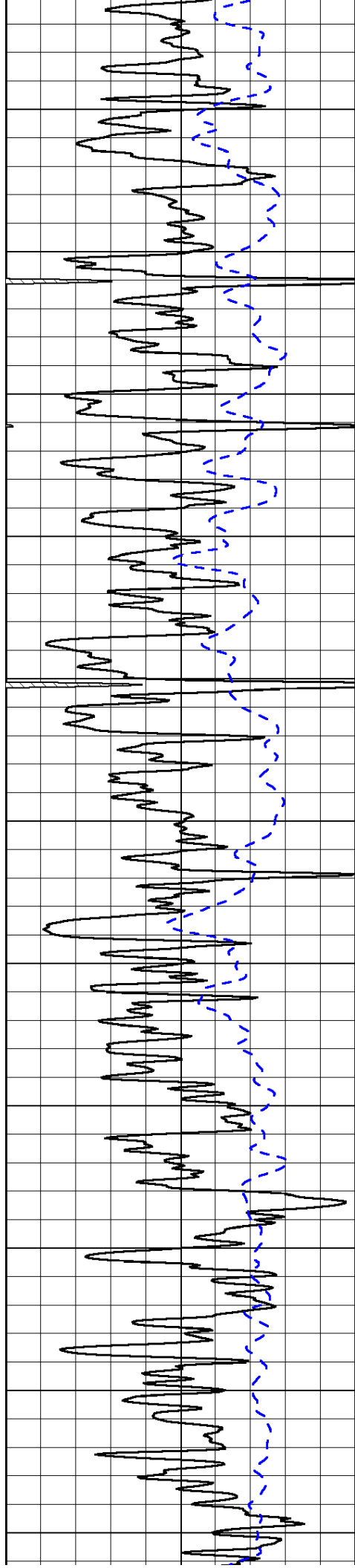
0	Gamma Ray	150
-200	SP (mV)	0

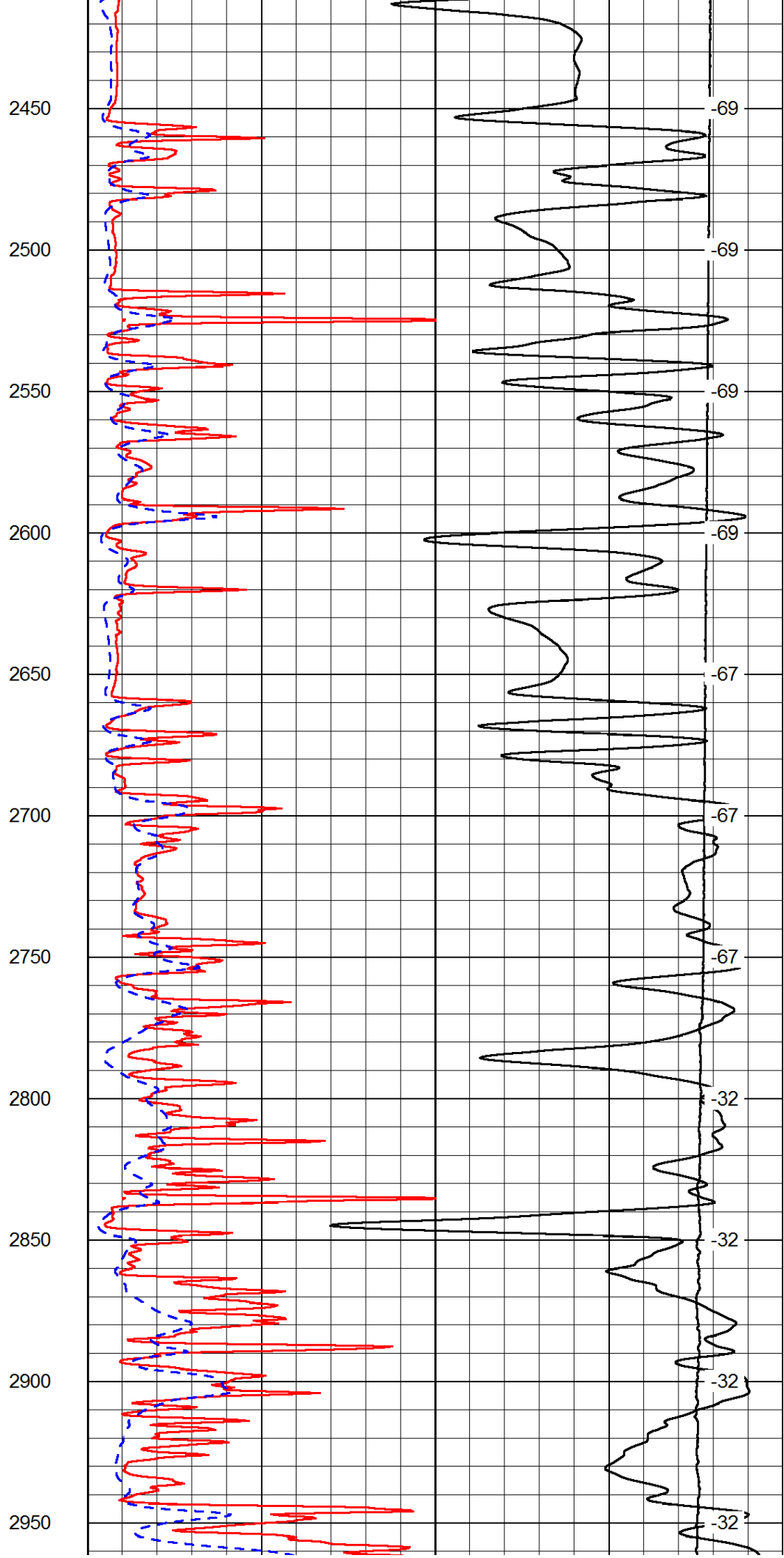
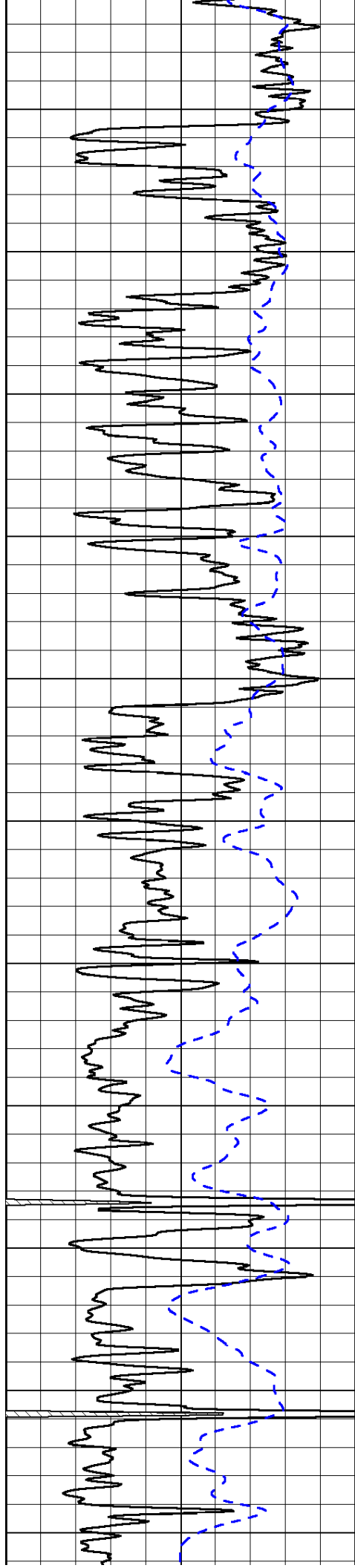
0	Shallow Resistivity	50	LSPD
0	Deep Resistivity	50	
1000	Conductivity		0
15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

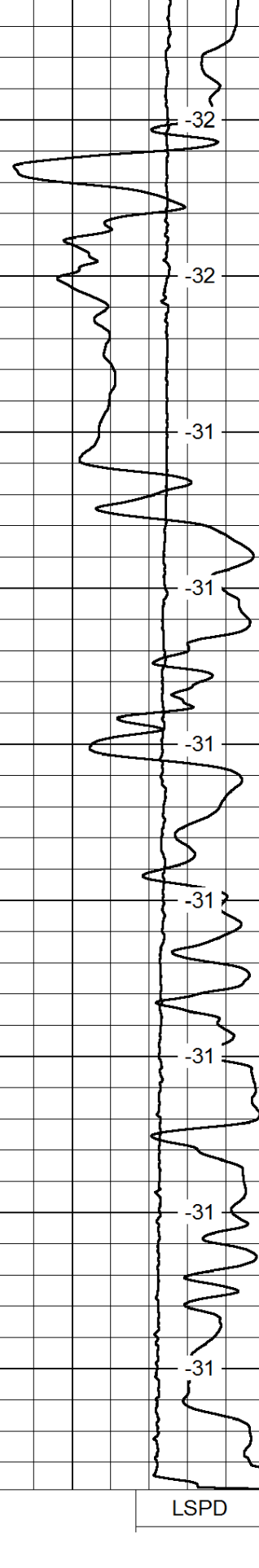
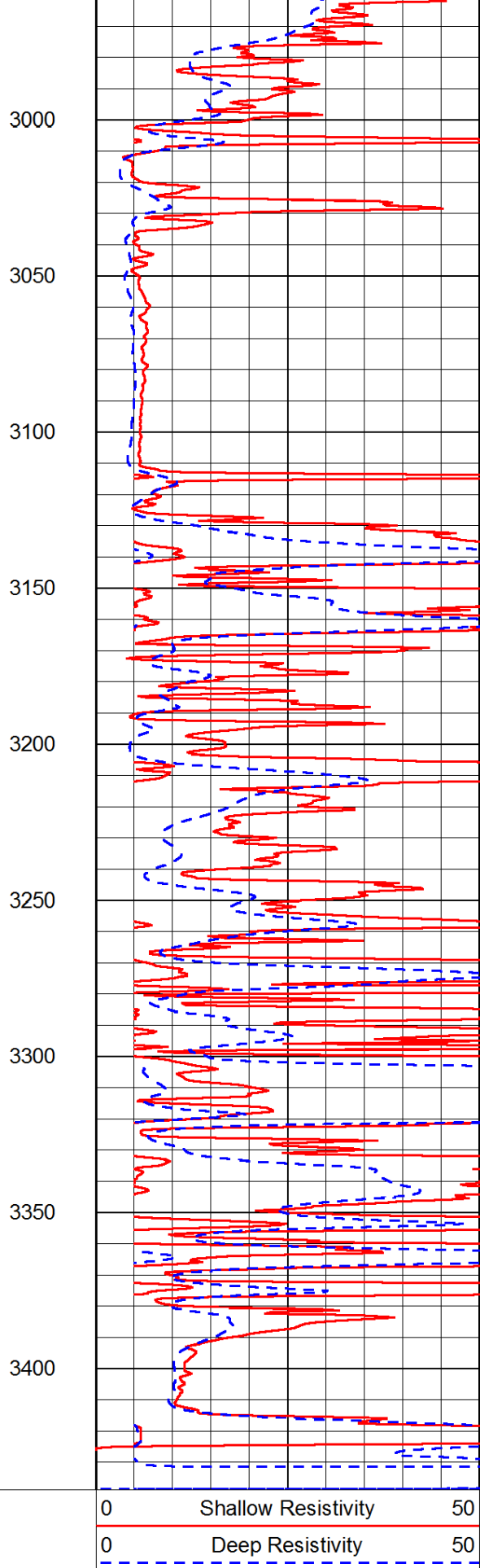
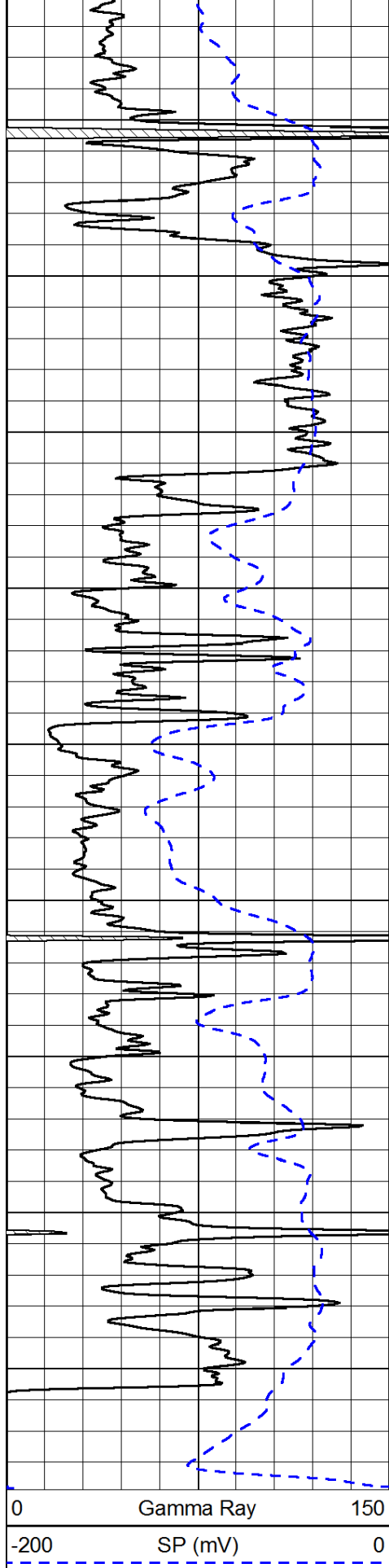












0 Gamma Ray 150
-200 SP (mV) 0

0 Shallow Resistivity 50
0 Deep Resistivity 50

LSPD

1000 Conductivity 0
15000 Line Tension 0

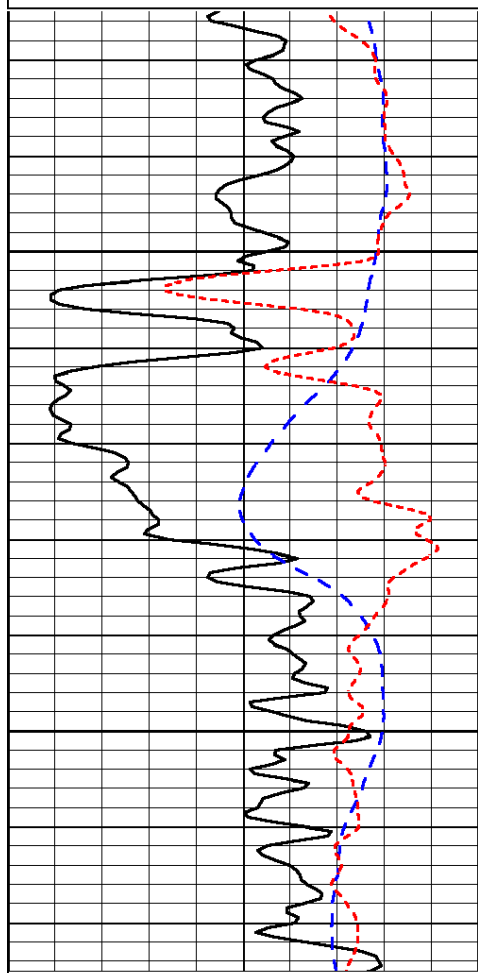
50 Shallow Resistivity 500
50 Deep Resistivity 500

Database File: c:\warrior\data\ld drilling_hammeke-mary s unit #1-9\ldhd.db
 Dataset Pathname: dil\ldstk
 Presentation Format: dil
 Dataset Creation: Mon Oct 01 16:11:57 2012
 Charted by: Depth in Feet scaled 1:240

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

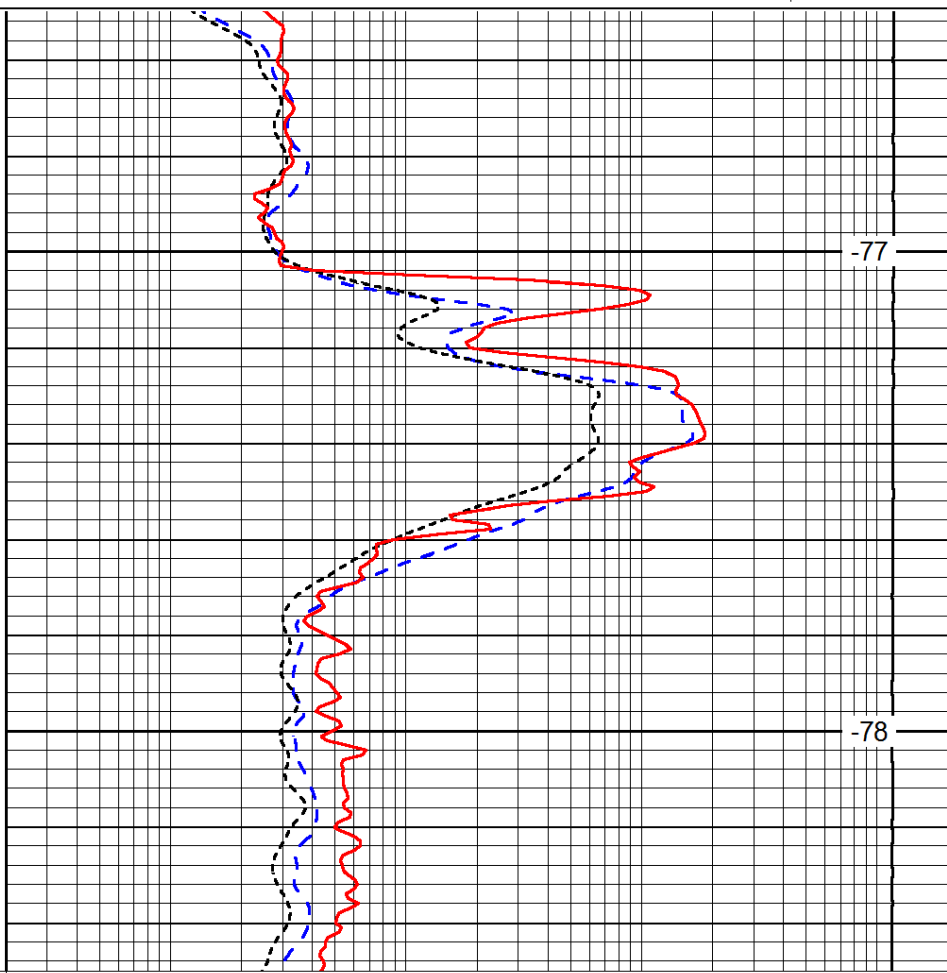
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



650

700



-77

-78

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

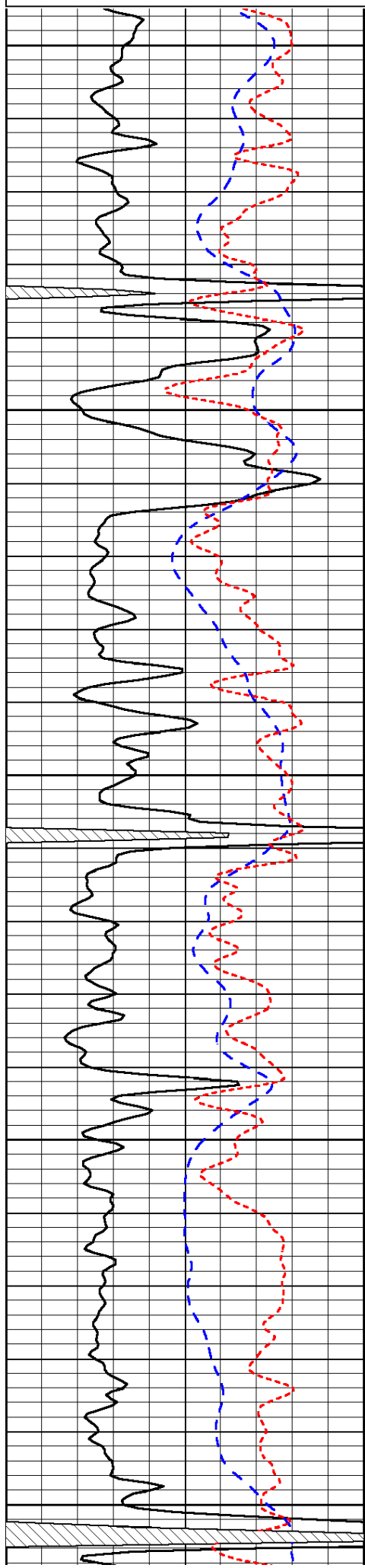
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

Database File: c:\warrior\data\ld drilling_hammeke-mary s unit #1-9\ldhd.db
 Dataset Pathname: dil\ldstk
 Presentation Format: dil
 Dataset Creation: Mon Oct 01 16:11:57 2012
 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



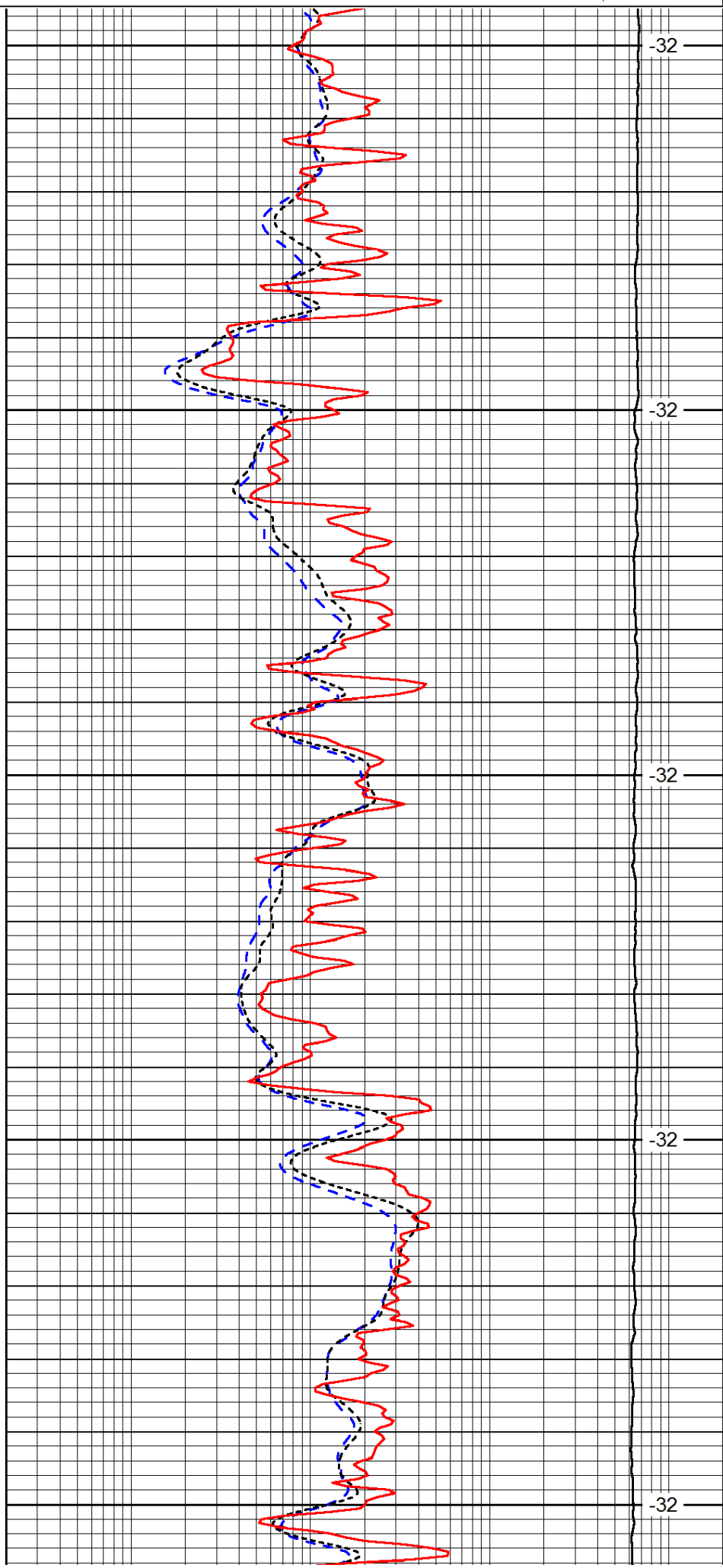
2800

2850

2900

2950

3000



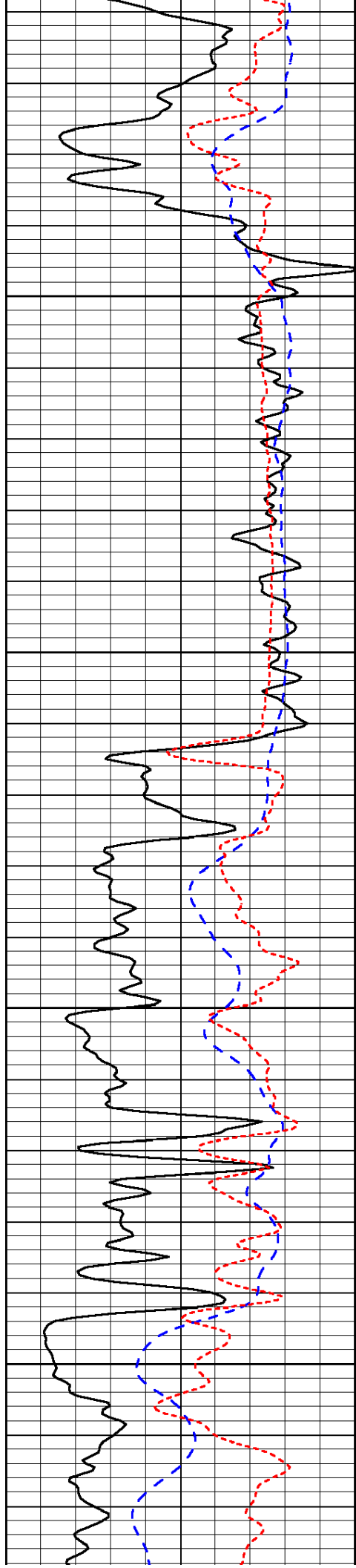
-32

-32

-32

-32

-32

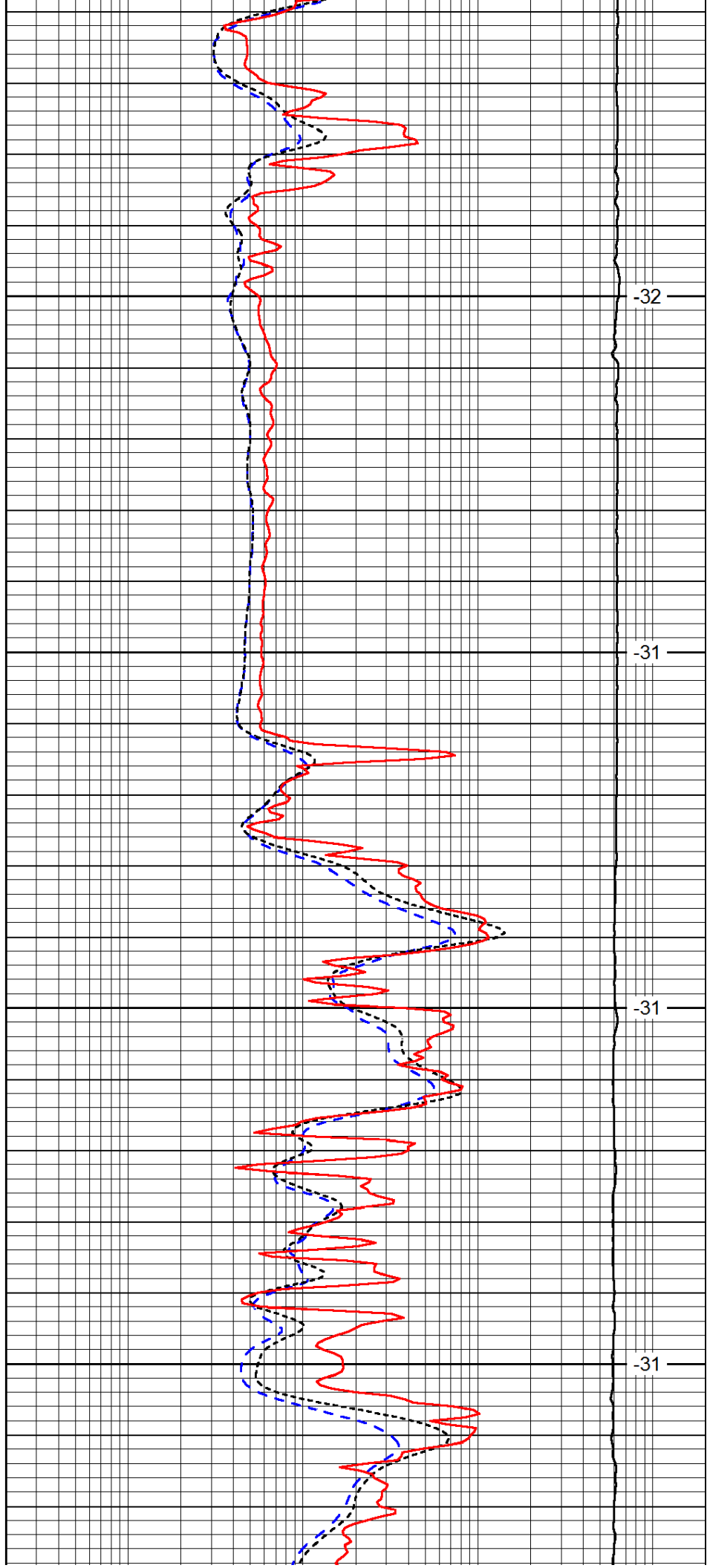


3050

3100

3150

3200

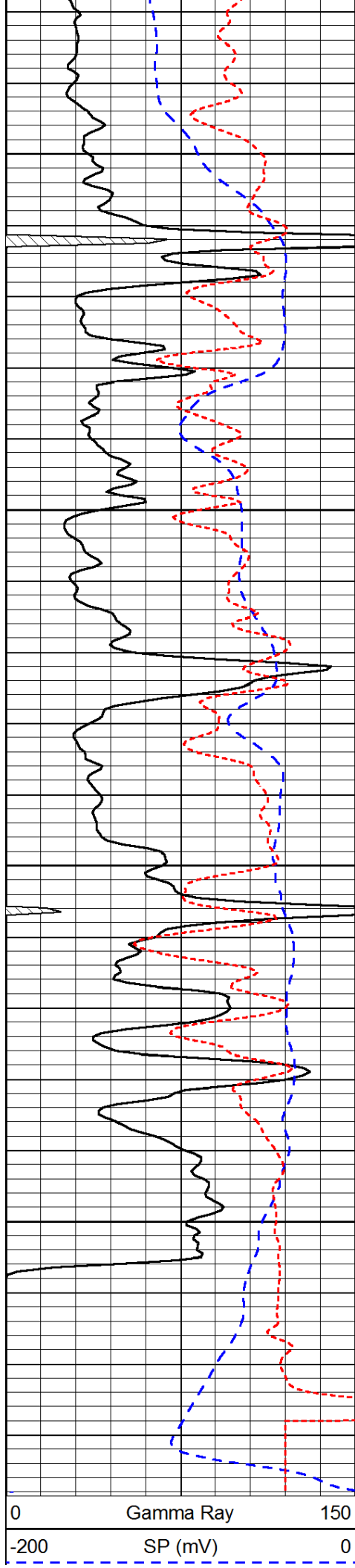


-32

-31

-31

-31



3250

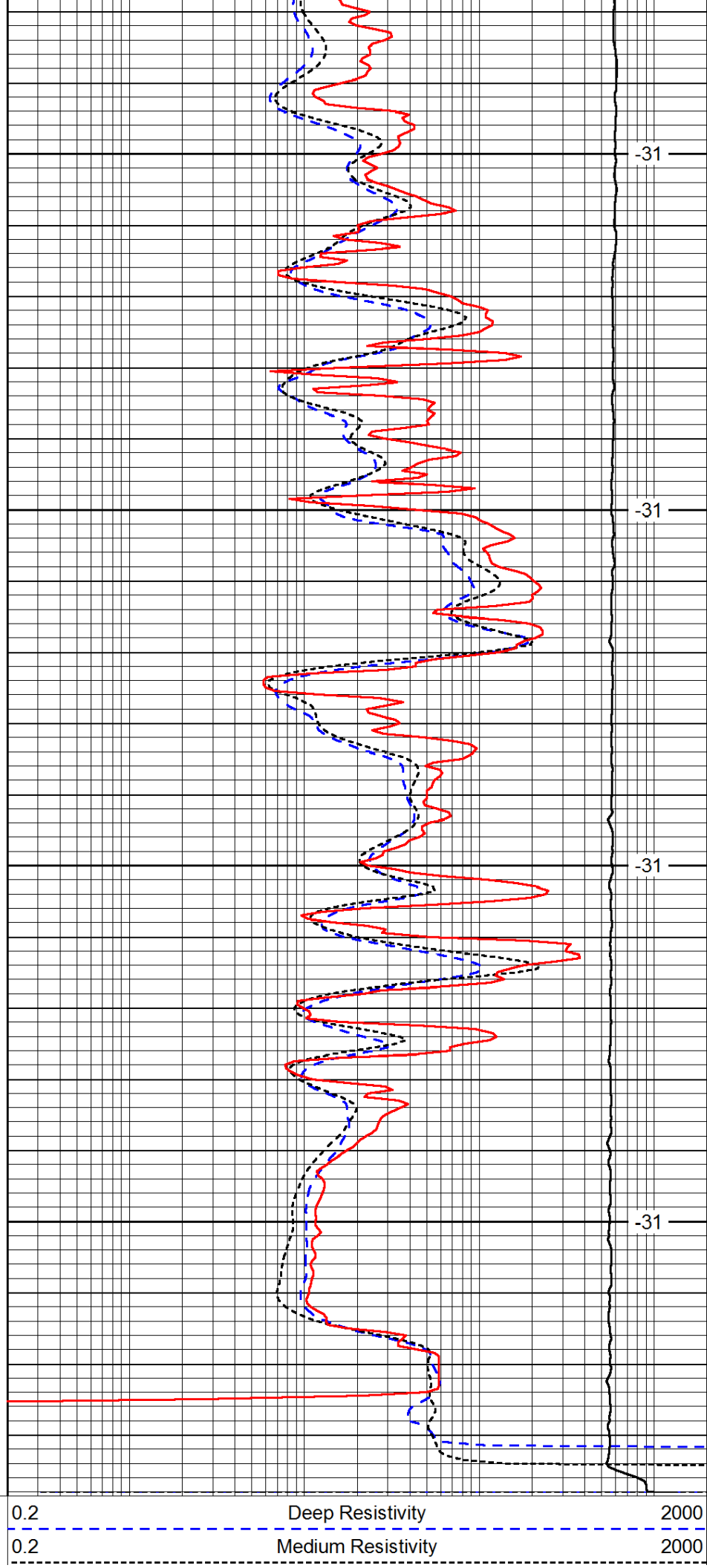
3300

3350

3400

Gamma Ray

SP (mV)



-31

-31

-31

-31

Deep Resistivity

Medium Resistivity

-160RxoRt40

0.2	Shallow Resistivity	2000
15000	Line Tension	0
		LSPD