



Dual Induction Log

Pioneer Energy Services

API No.

15-167-23,911-00-00

Company John H. Shaida

Well Krug 'B' #3

Field Trapp

County Russell State

Kansas

Location

SW-SW-NE-NE
1240' FNL & 1157' FEL

Other Services
CNL/CDL
MEL

Sec: 24

Twp: 15S

Rge: 14W

Elevation

Permanent Datum Ground Level

Elevation 1871

Log Measured From Kelly Bushing

6 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

K.B. 1877
D.F. 1877
G.L. 1871

Date

10/14/2013

Run Number

One

Depth Driller

3390

Depth Logger

3390

Bottom Logged Interval

3389

Top Log Interval

850

Casing Driller

8.625 @ 866

Casing Logger

864

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

5.700

Density / Viscosity

9.5 52

pH / Fluid Loss

8.5 8.8

Source of Sample

Flowline

Rm @ Meas. Temp

.81 @ 68

Rmf @ Meas. Temp

.61 @ 68

Rmc @ Meas. Temp

1.09 @ 68

Source of Rmf / Rmc

Charts

Rm @ BHT

.50 @ 110

Operating Rig Time

3 1/2 Hours

Max Rec. Temp. F

110

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Tyler Sanders

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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

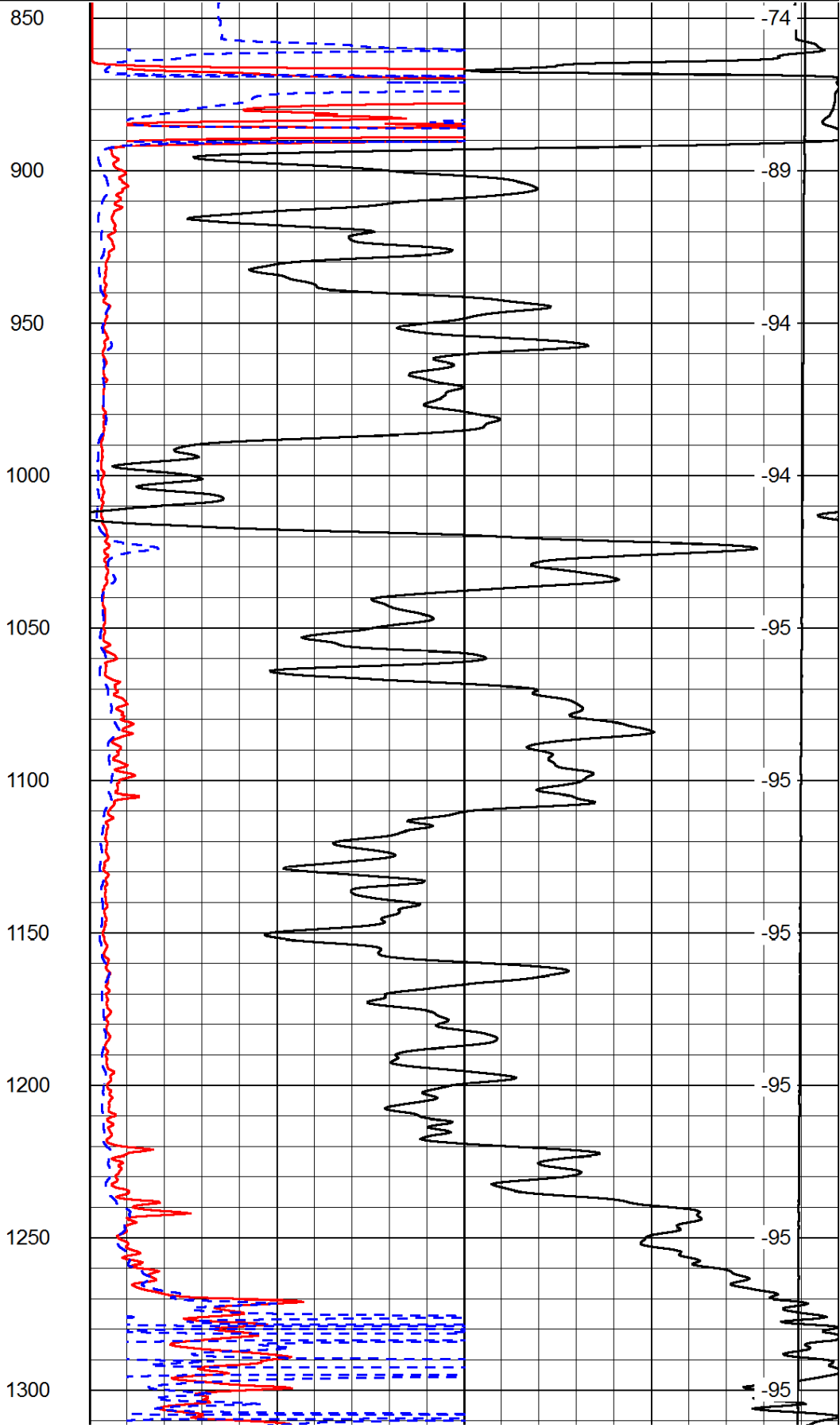
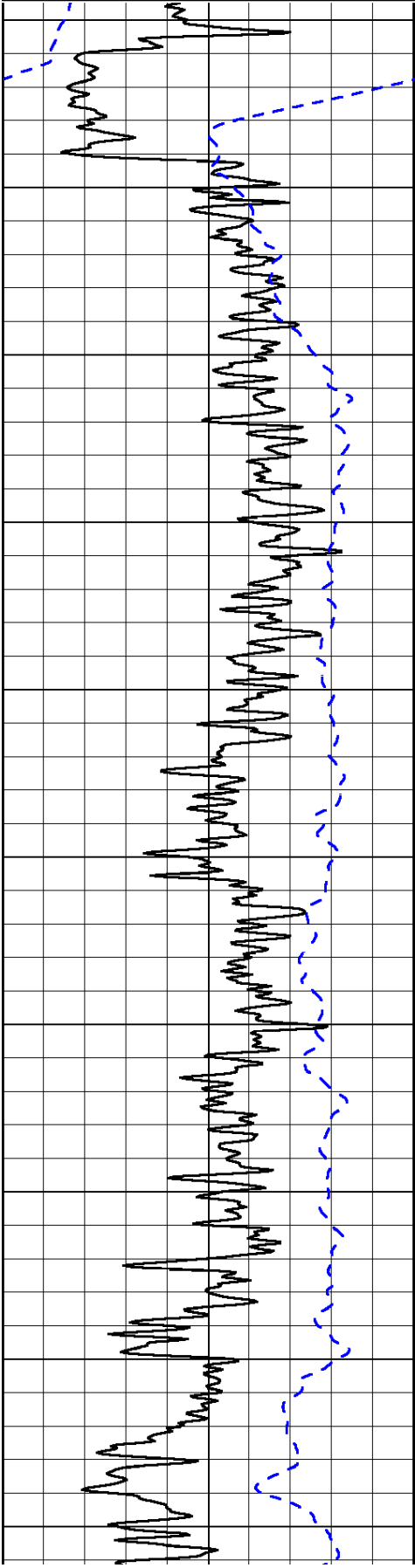
Thank you for using Pioneer Energy Services
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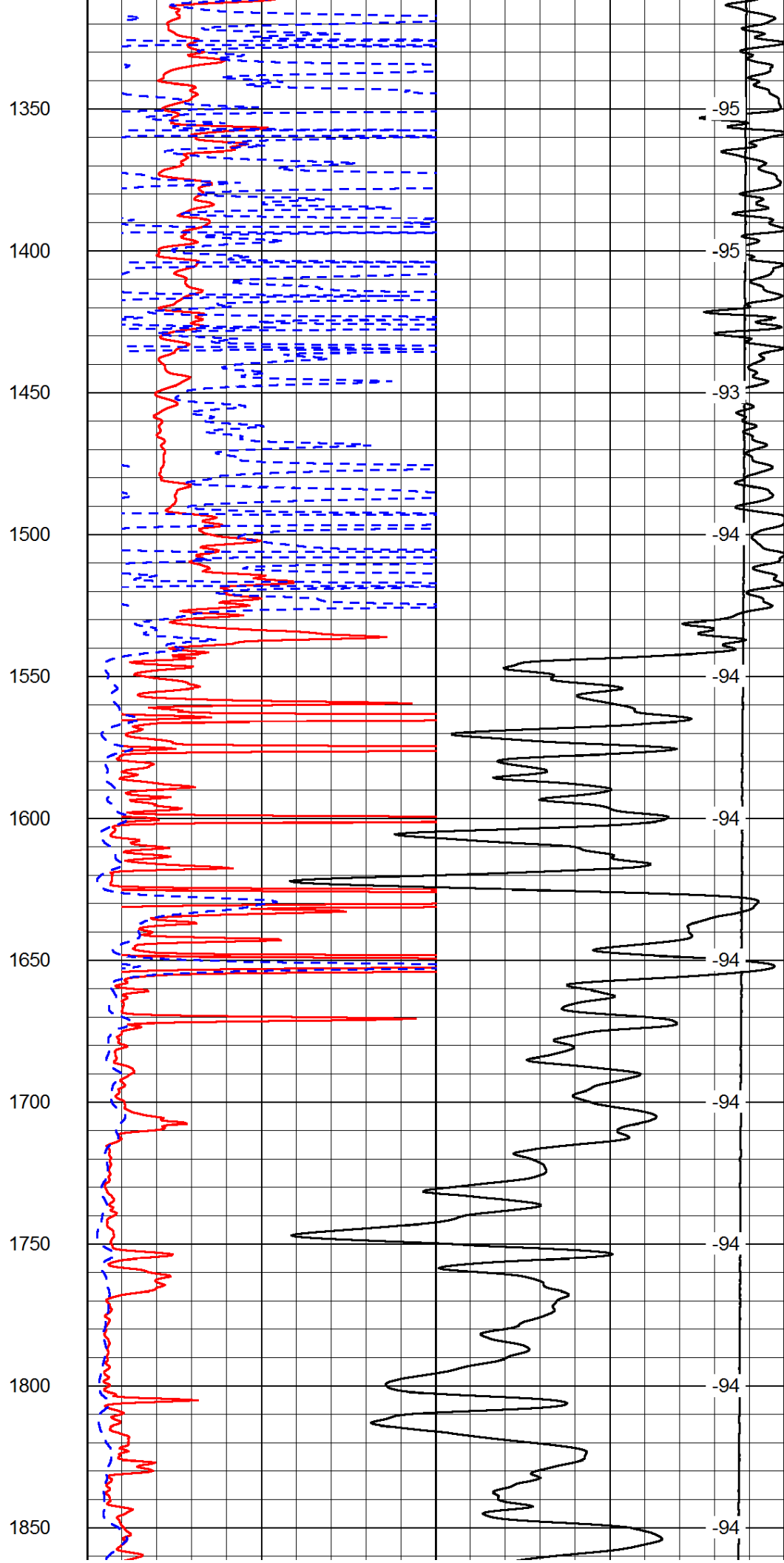
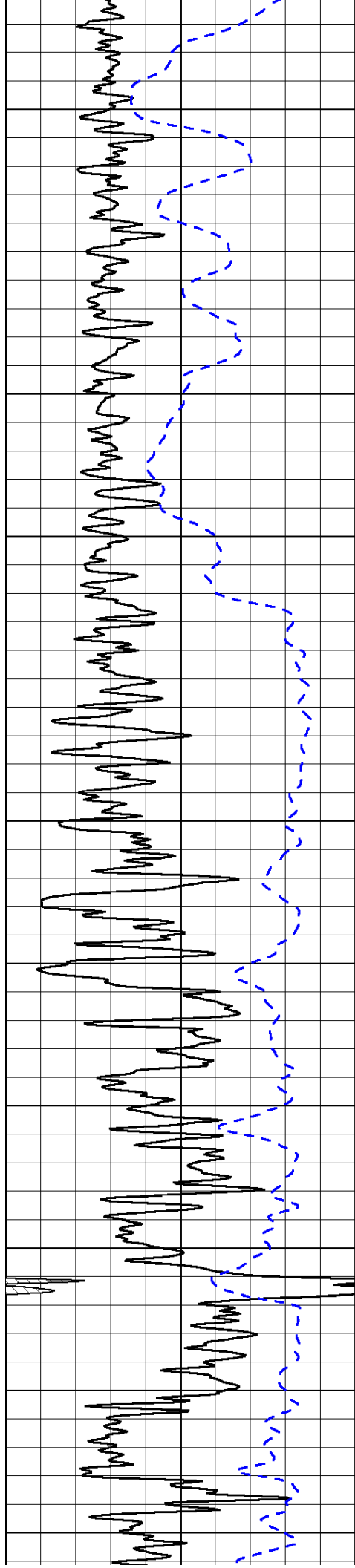
Russell Kansas
8 1/2 South, 1 1/2 East, 1/2 South, West Into

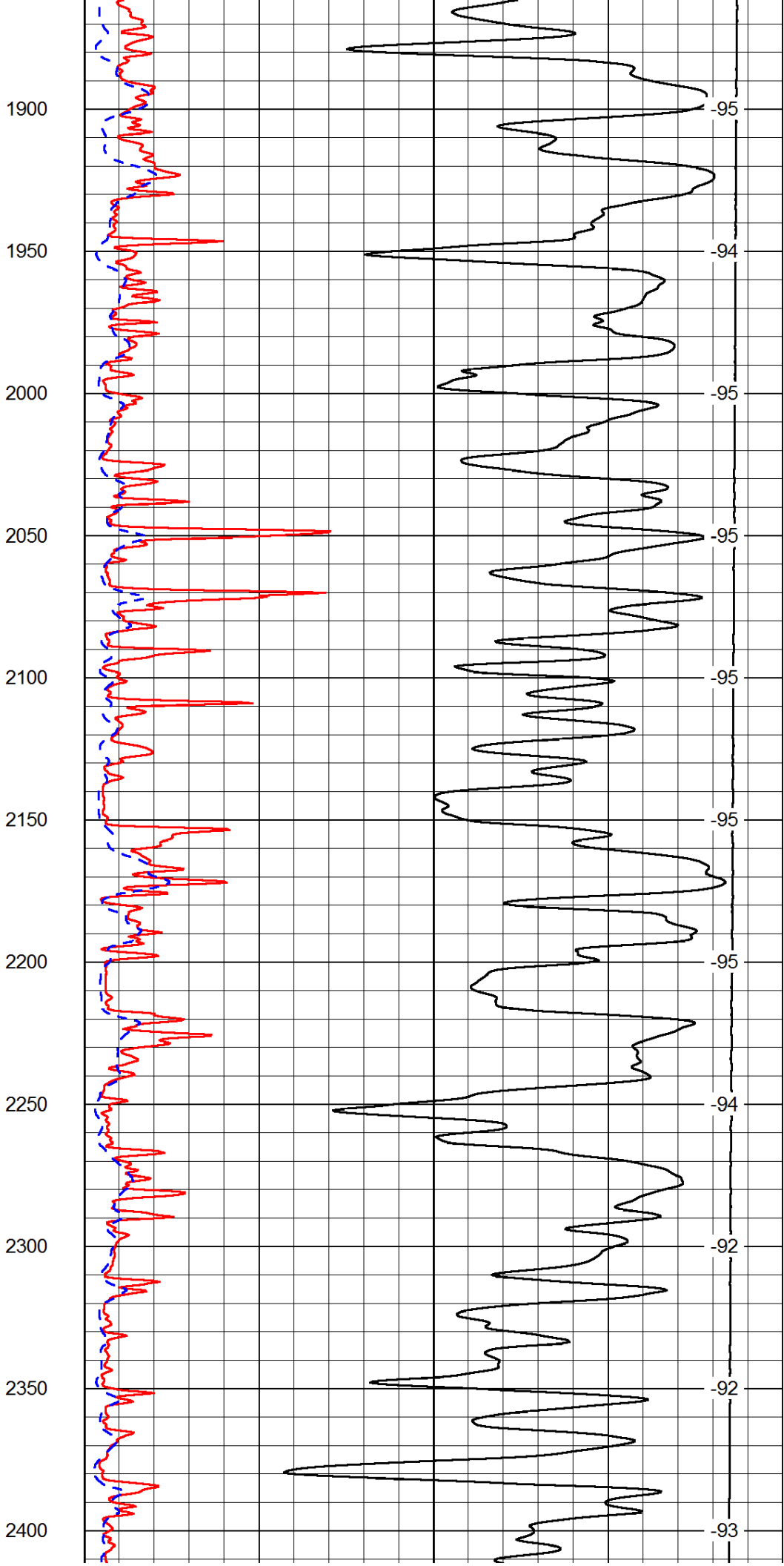
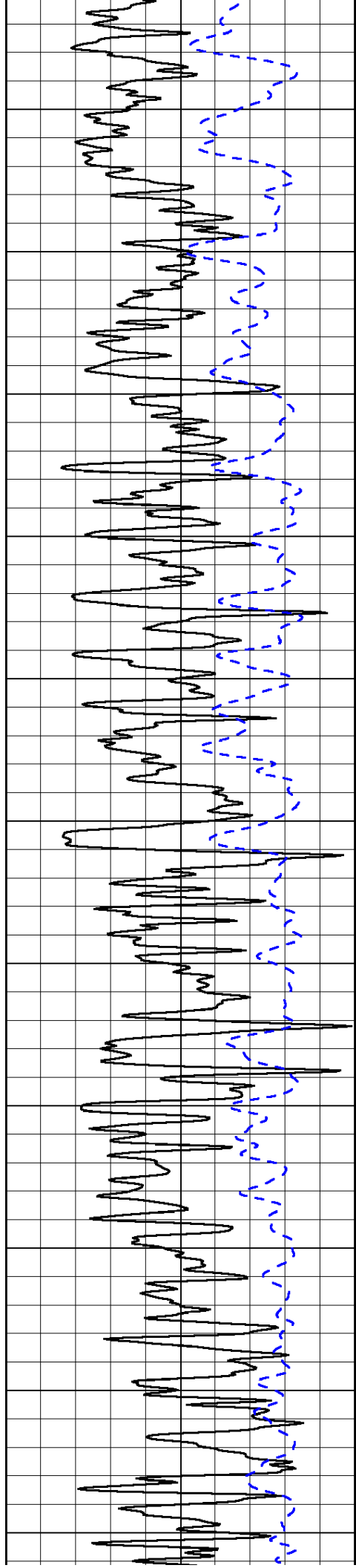
Database File: c:\warrior\data\john h. shaida_krug 'b' #3\shaida_krug_b_3hd.db
Dataset Pathname: DIL\shastk
Presentation Format: dil2in
Dataset Creation: Mon Oct 14 15:29:45 2013
Charted by: Depth in Feet scaled 1:600

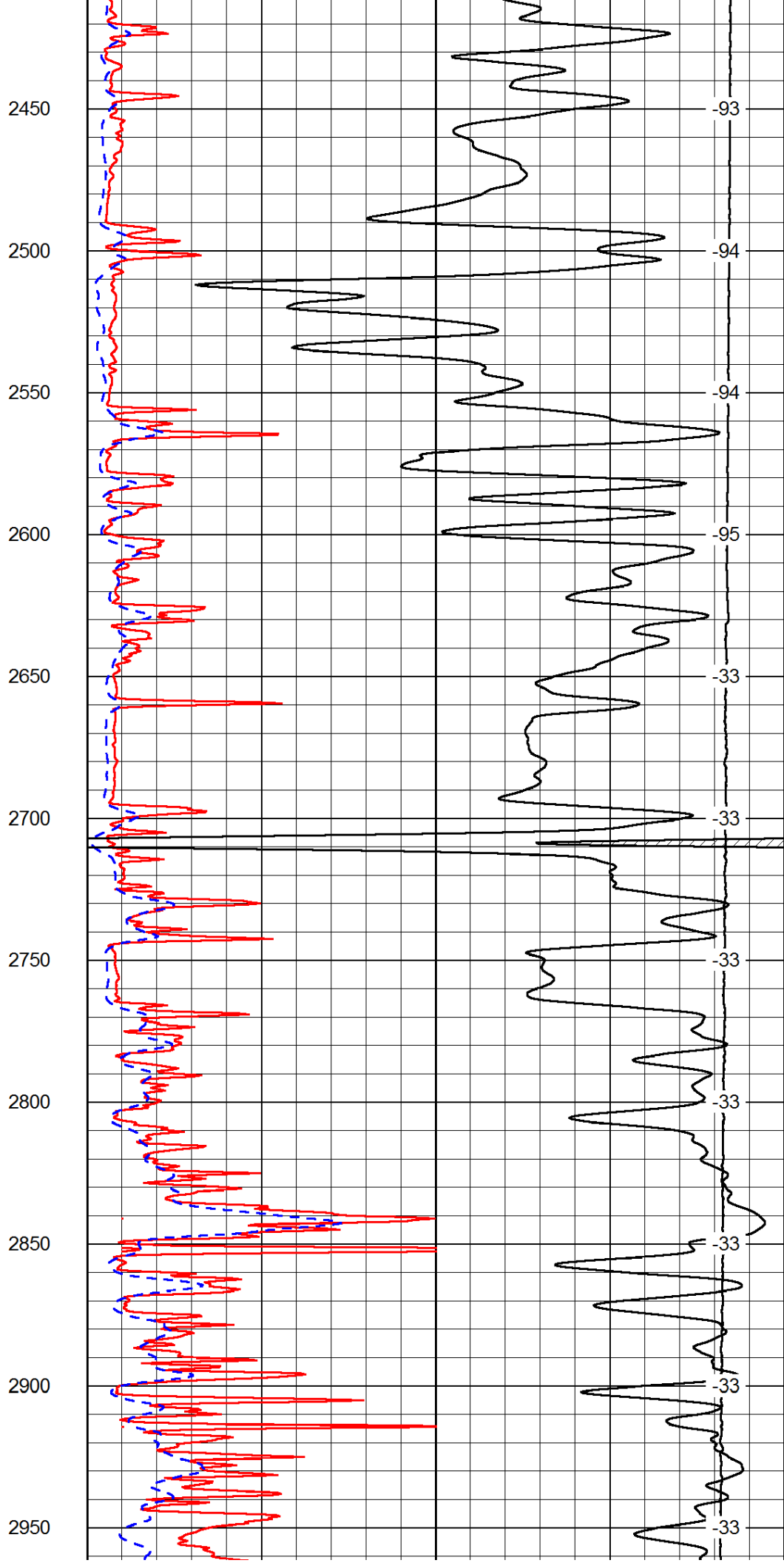
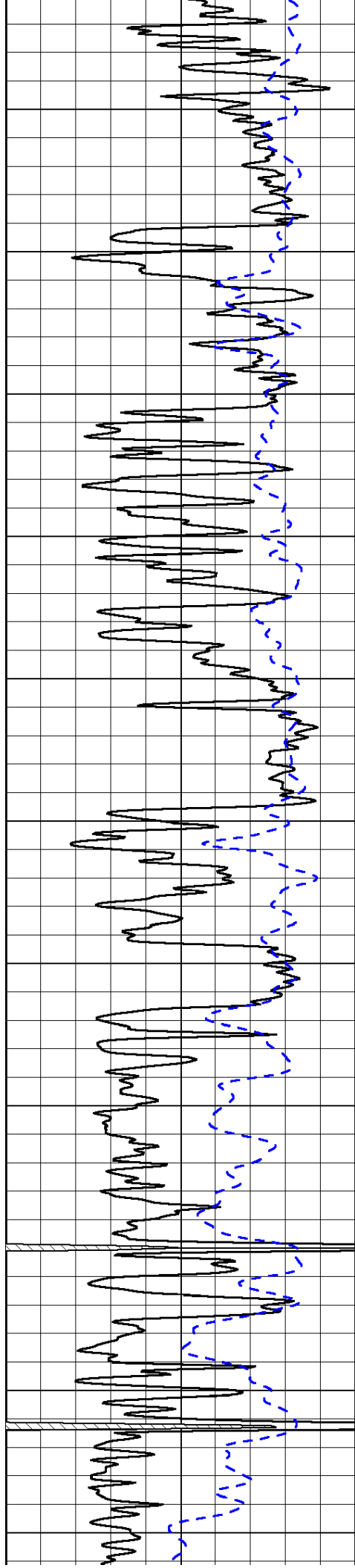
Charted by: Depth in Feet scaled 1:600		
0	Gamma Ray	150
-200	SP (mV)	0

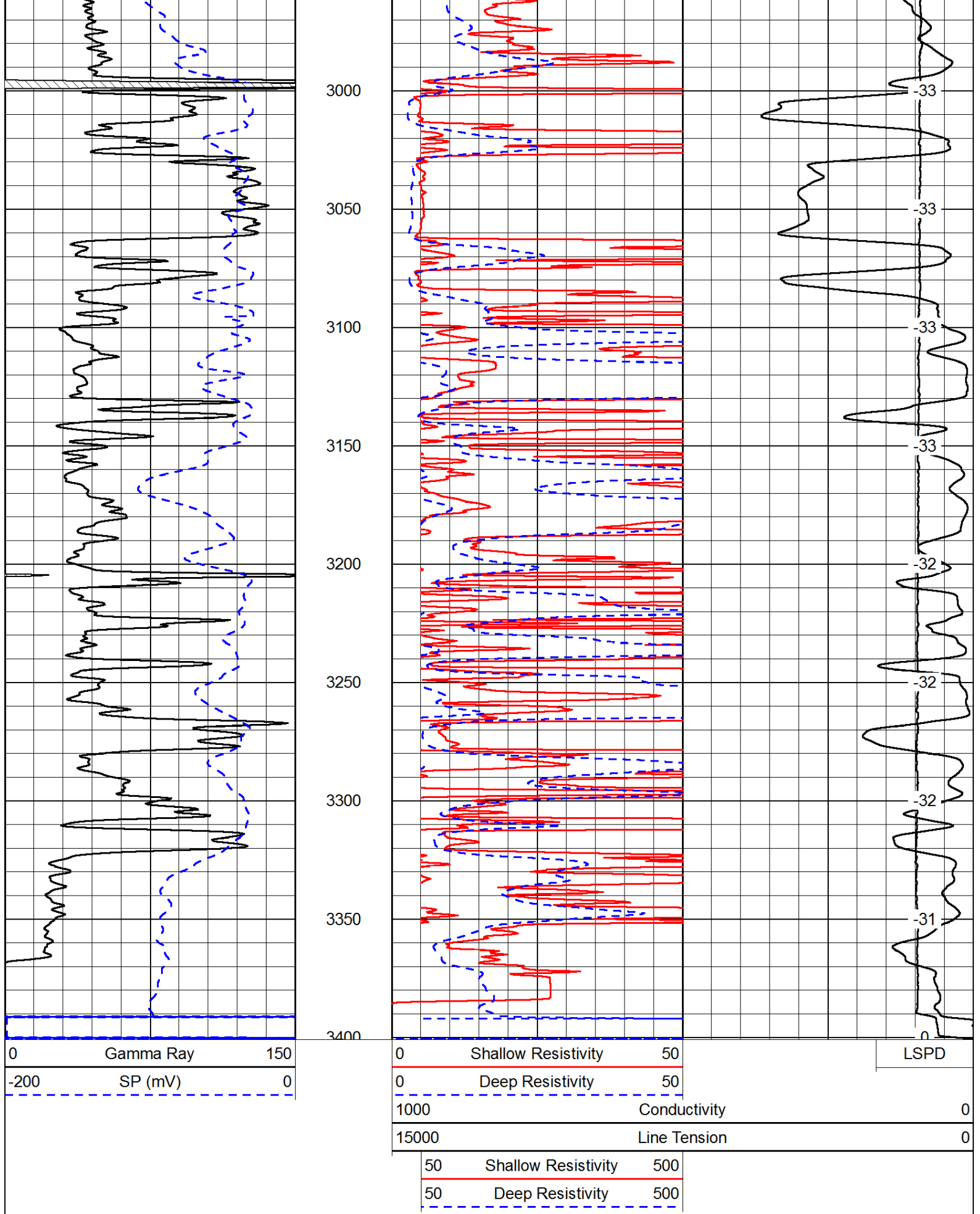
0 Shallow Resistivity 50			LSPD
0 Deep Resistivity 50			
1000 Conductivity			0
15000 Line Tension			0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	









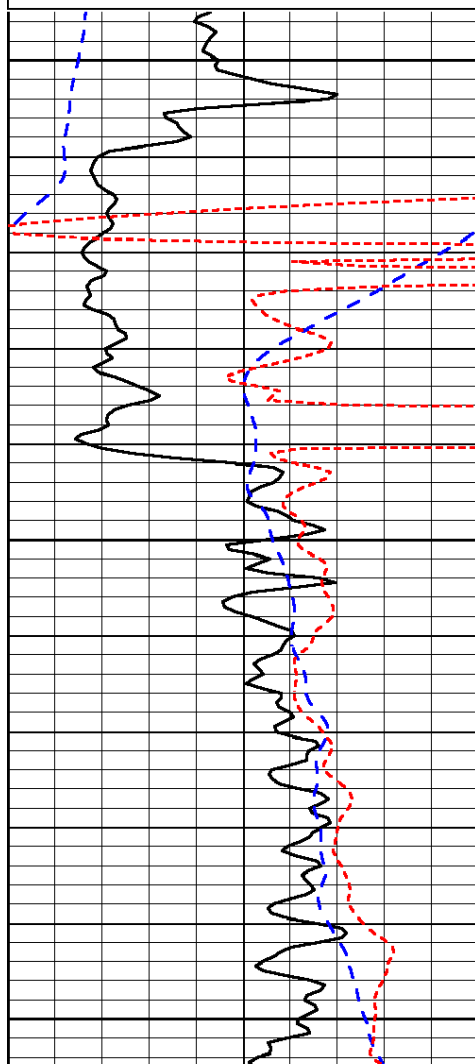


Presentation Format: dil
Dataset Creation: Mon Oct 14 15:29:45 2013
Charted by: Depth in Feet scaled 1:240

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

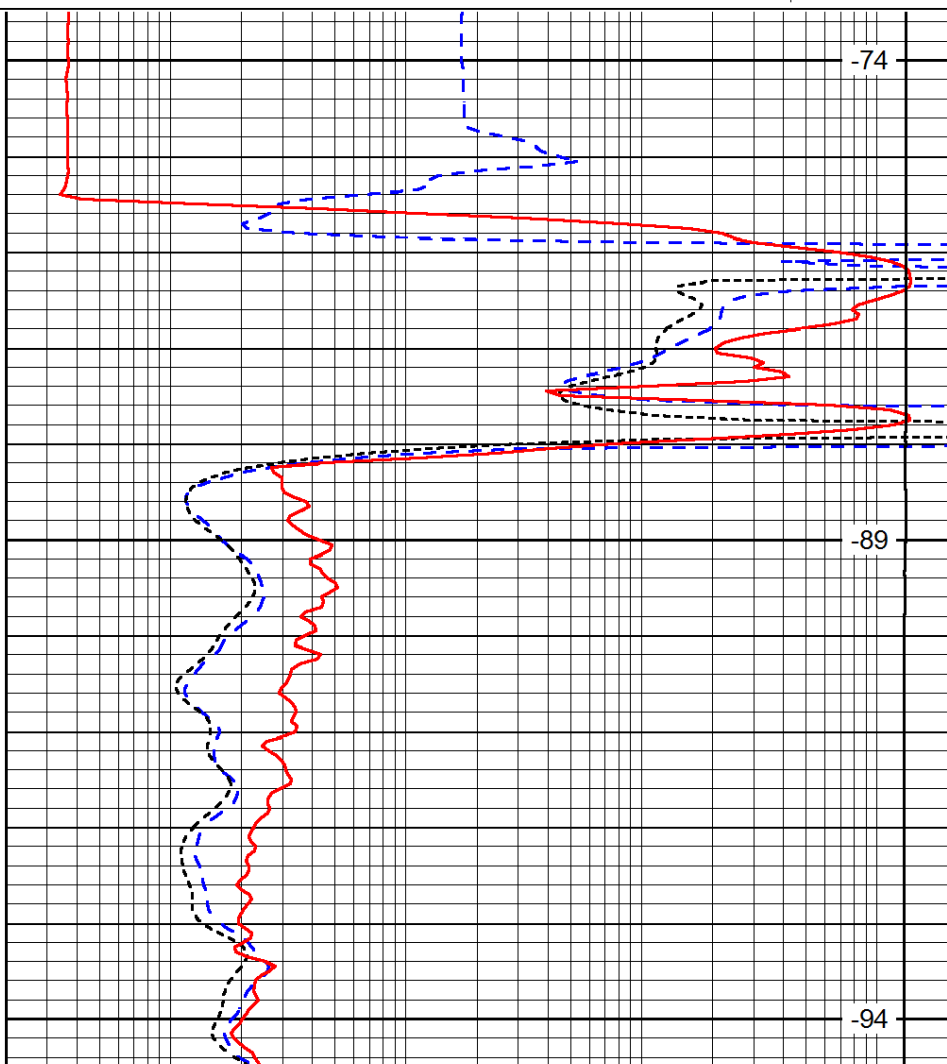
LSPD



850

900

950



-74

-89

-94

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

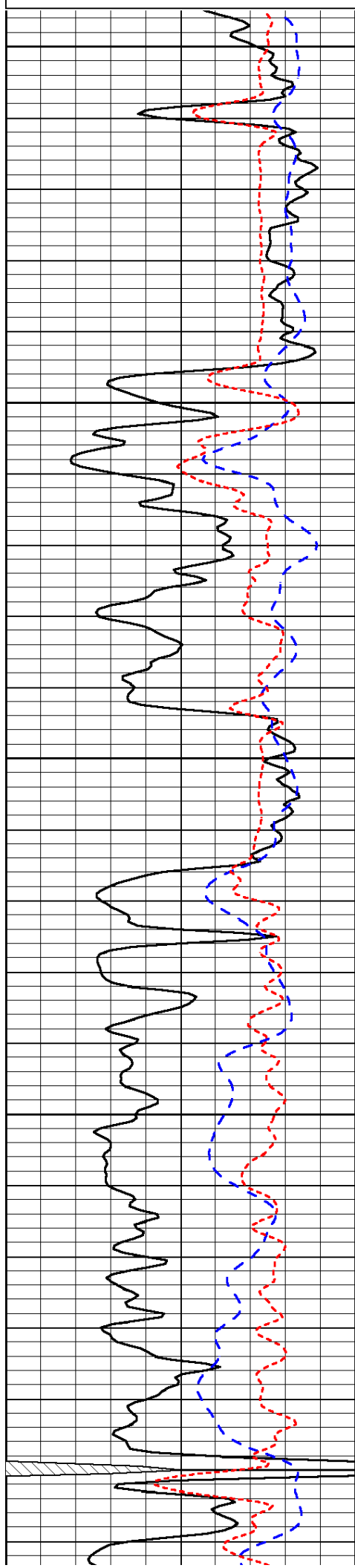
LSPD

Database File: c:\warrior\data\john h. shaida_krug 'b' #3\shaida_krug_b_3hd.db
Dataset Pathname: DIL/shastk
Presentation Format: dil
Dataset Creation: Mon Oct 14 15:29:45 2013
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



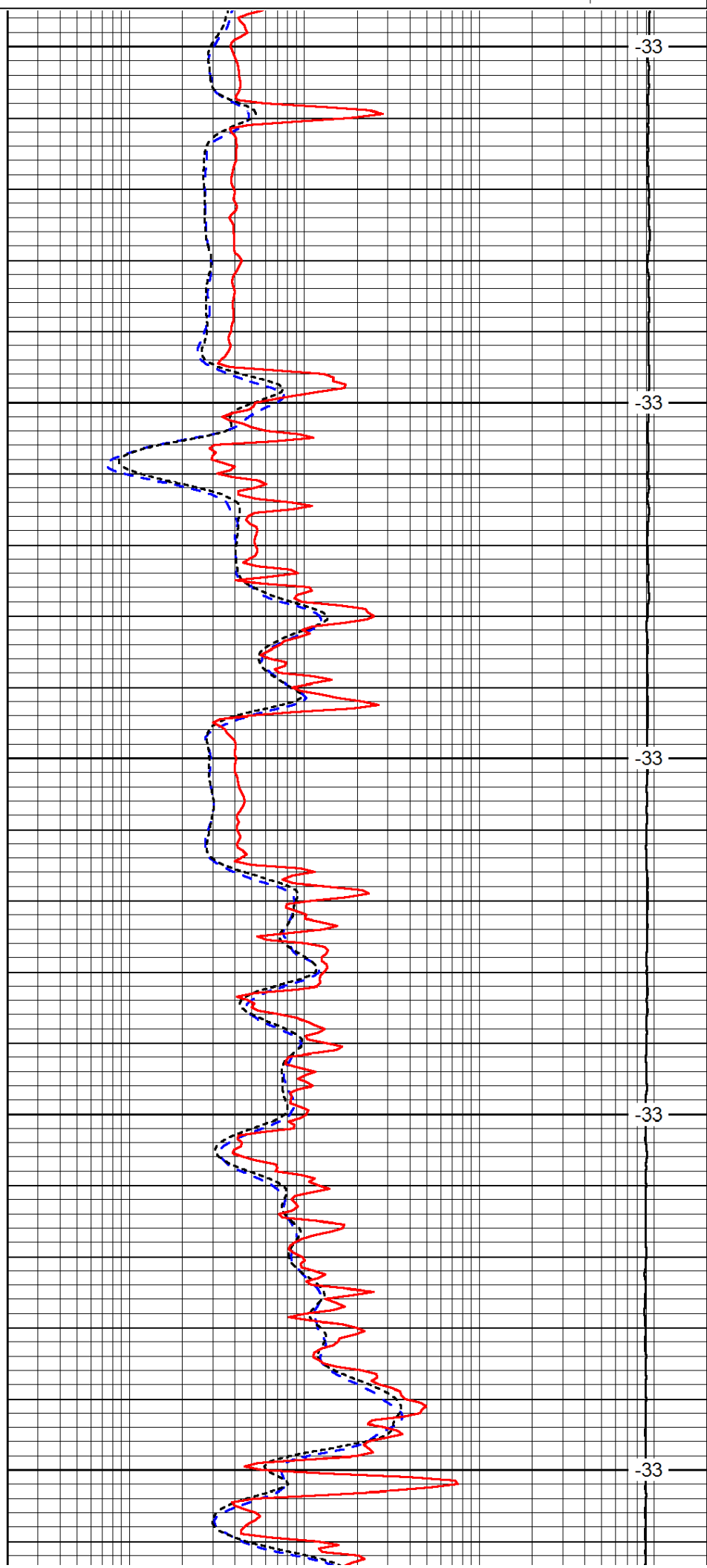
2650

2700

2750

2800

2850



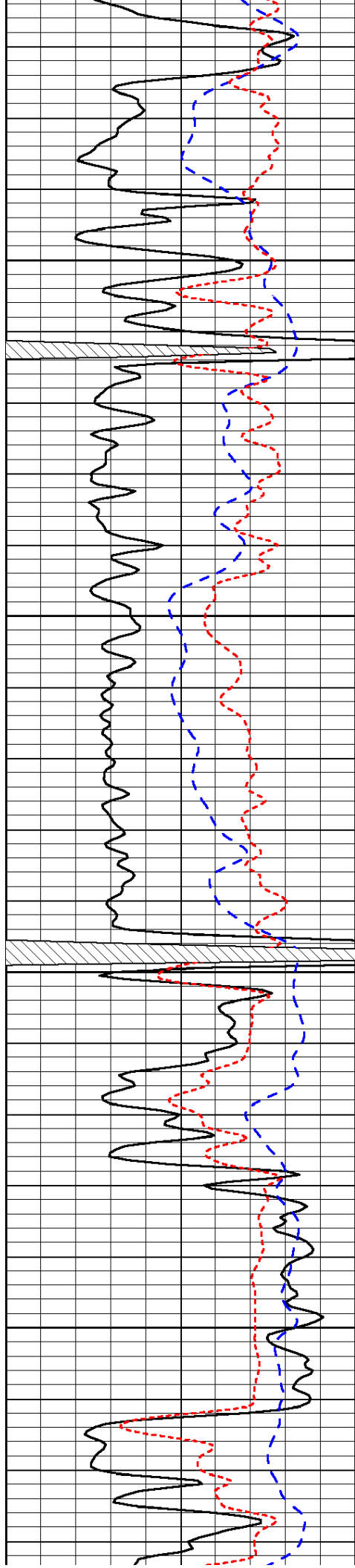
-33

-33

-33

-33

-33

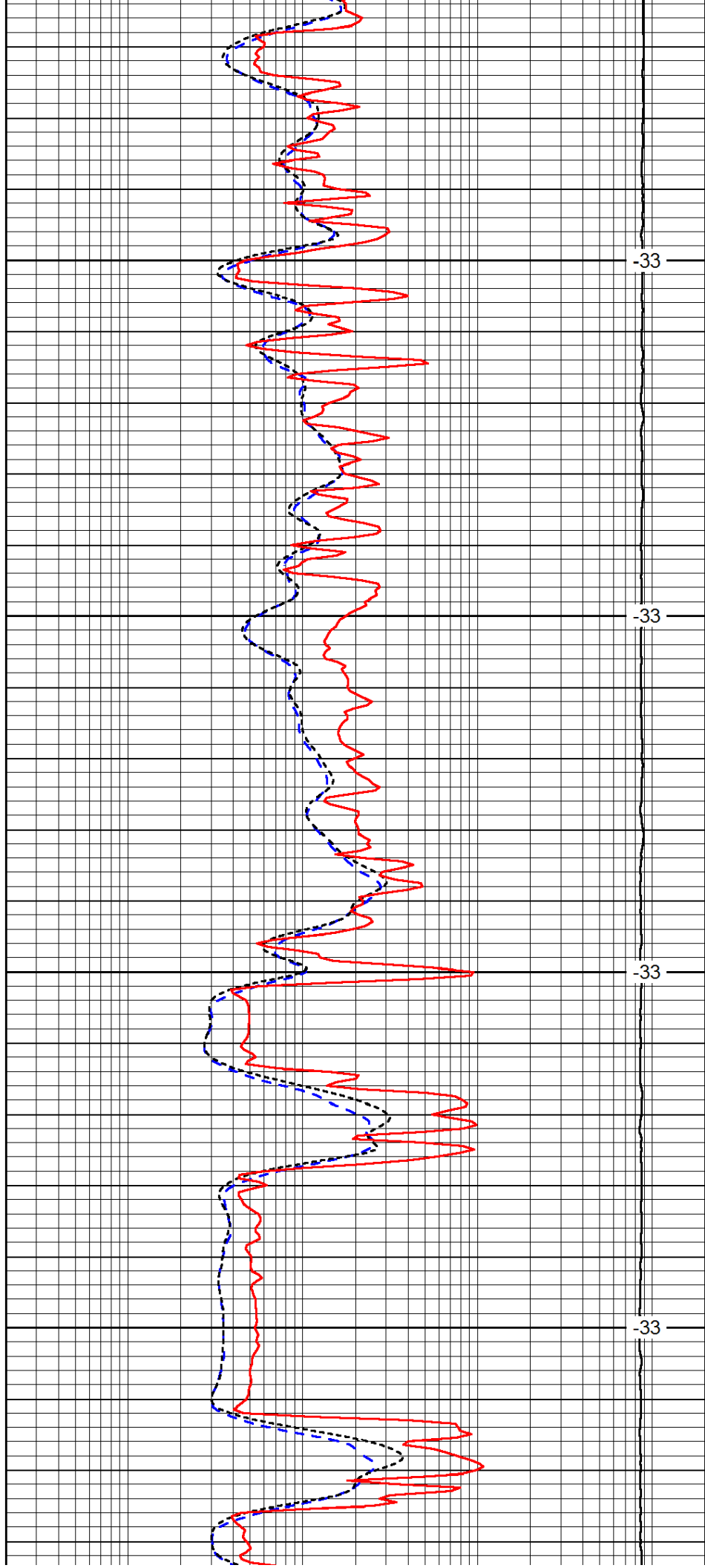


2900

2950

3000

3050

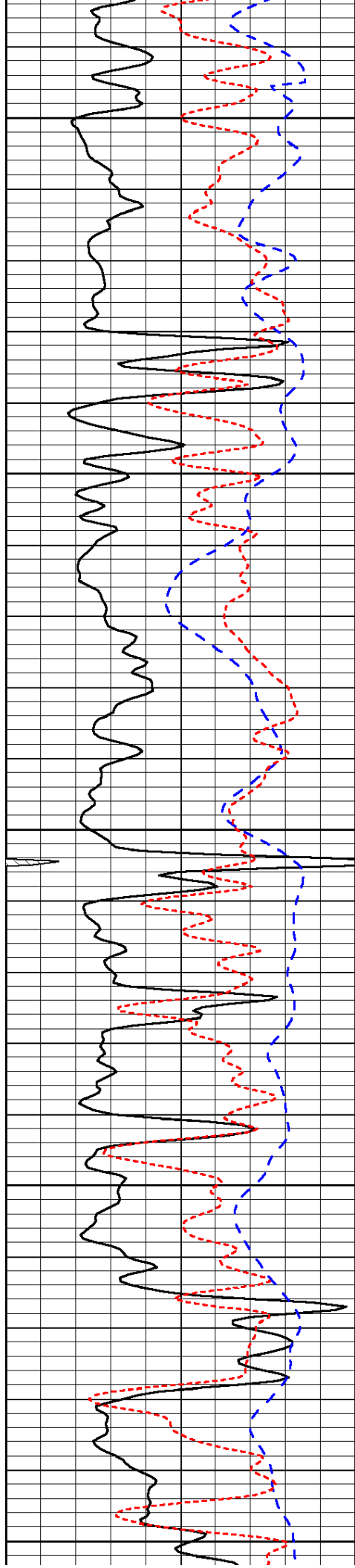


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-33

-33

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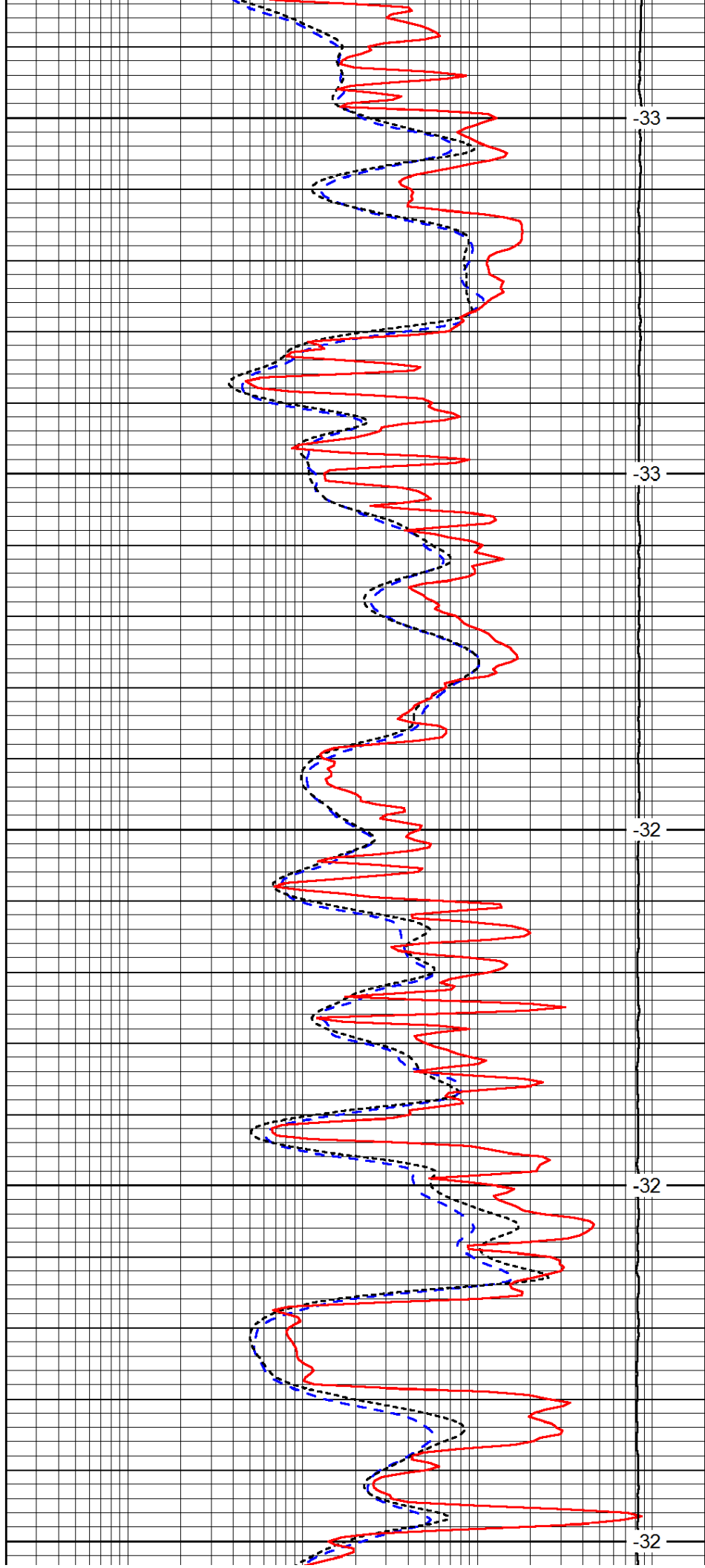
3100

3150

3200

3250

3300



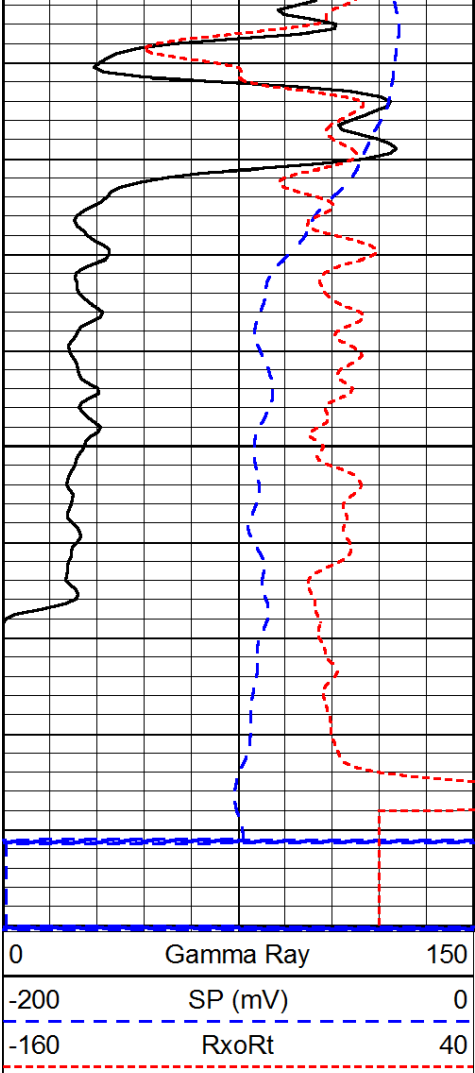
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-33

-32

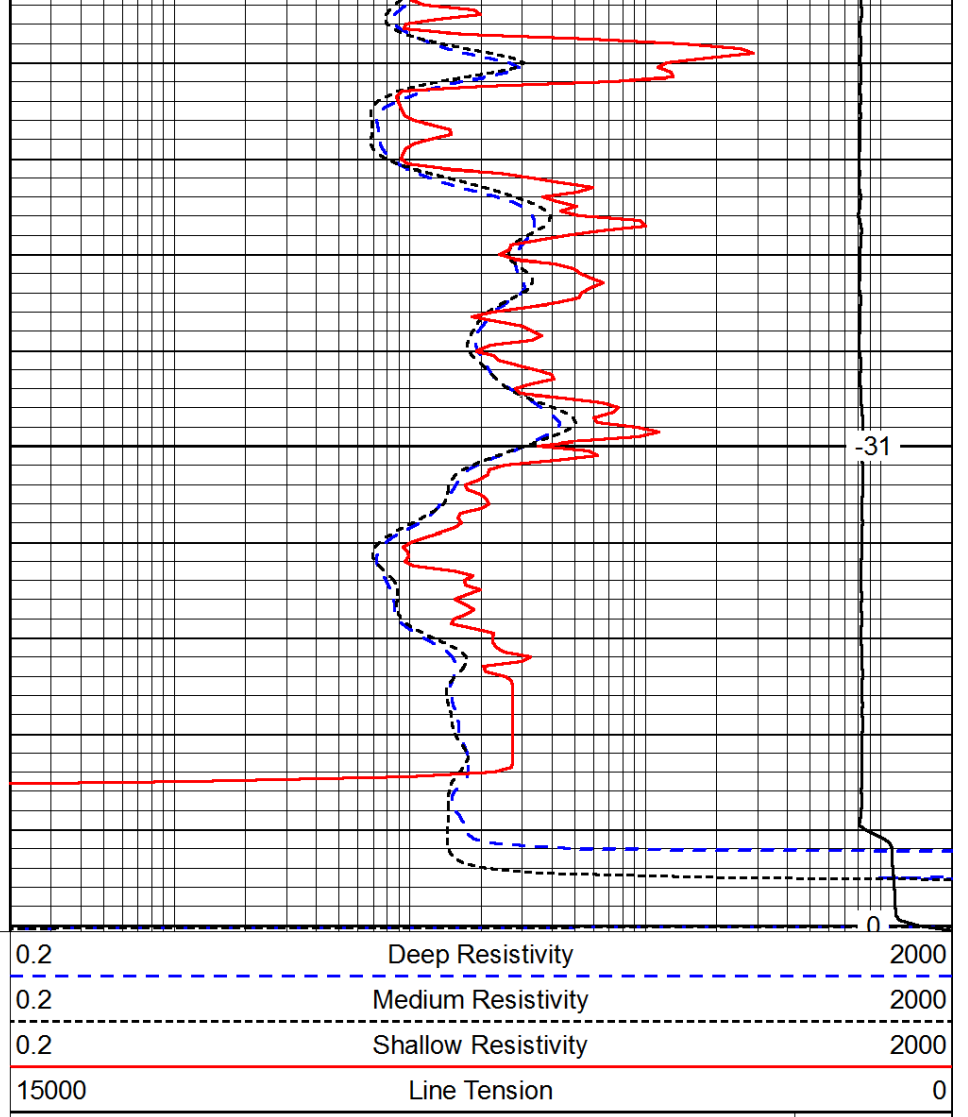
-32

-32



3350

3400



-31

0

LSPD