



Pioneer Energy Services

Dual Induction Log

API No.

15-009-26,010-00-00

Company American Warrior, Inc.

Well Tempero No.7-23

Field Sandford

County Barton State Kansas

Location

SE SW NW SE
1630' FSL & 2263' FEL

Other Services
CNL/CDL
MEL

Sec: 23

Twp: 17S

Rge: 14W

Elevation

Permanent Datum Ground Level Elevation 1921

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date 8/12/2014

Run Number One

Depth Driller 3500

Depth Logger 3452

Bottom Logged Interval 3451

Top Log Interval 850

Casing Driller 8.625 @ 845

Casing Logger 850

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5.900

Density / Viscosity 9.4 64

pH / Fluid Loss 10.5 10.8

Source of Sample Flowline

Rm @ Meas. Temp .4 @ 75

Rmf @ Meas. Temp .3 @ 75

Rmc @ Meas. Temp .54 @ 75

Source of Rmf / Rmc Charts

Rm @ BHT .27 @ 111

Operating Rig Time 3 Hours

Max Rec. Temp. F 111

Equipment Number 10

Location Hays

Recorded By C. Desaire

Witnessed By Adam Folk

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

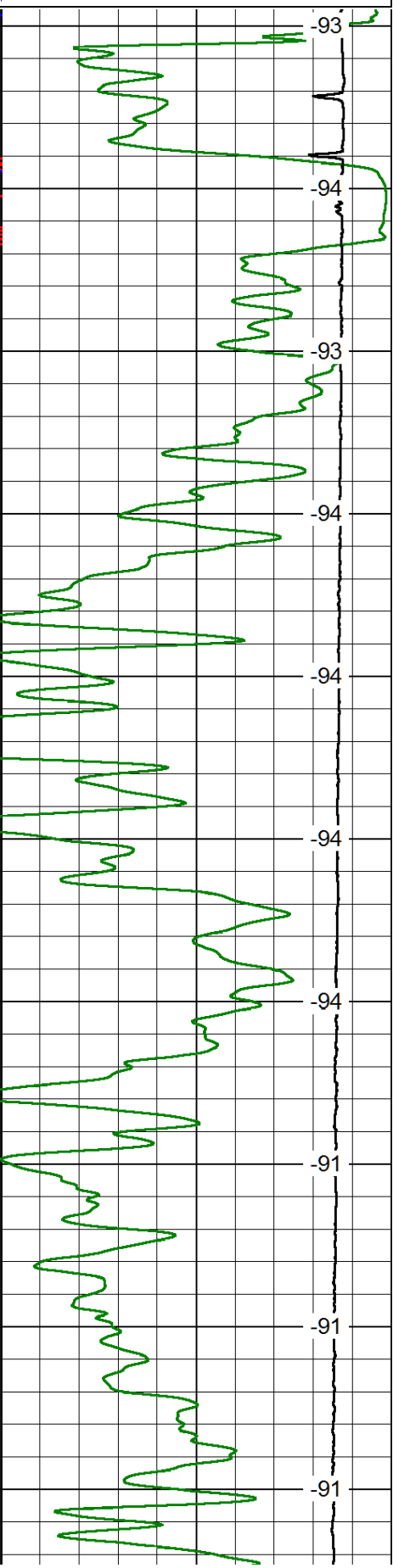
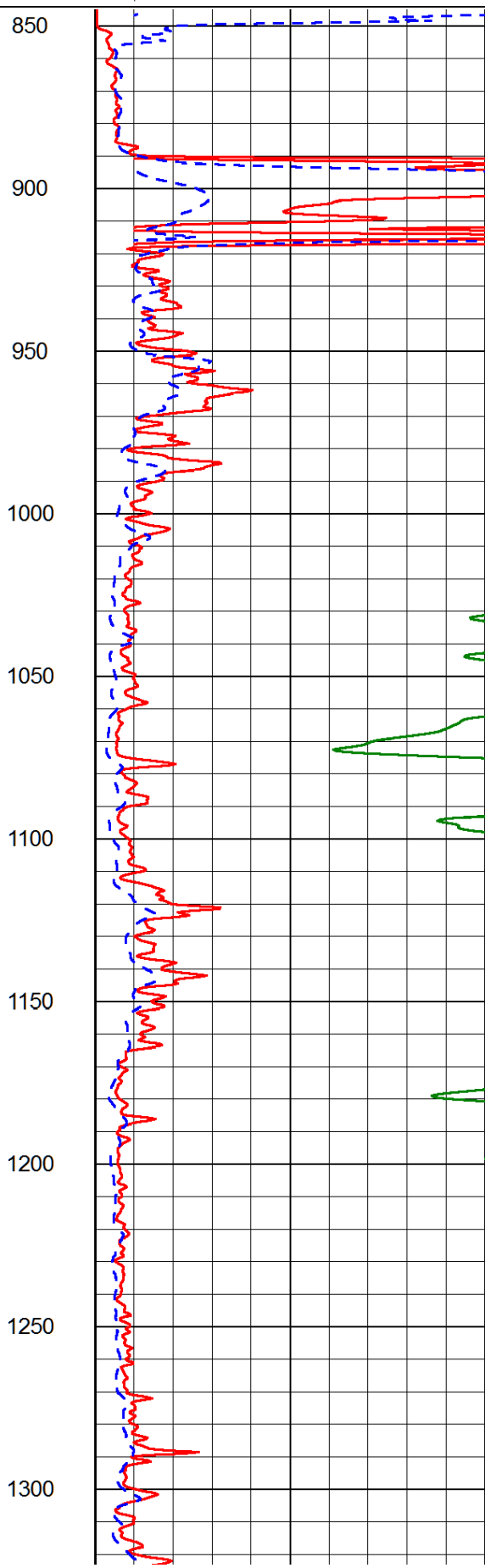
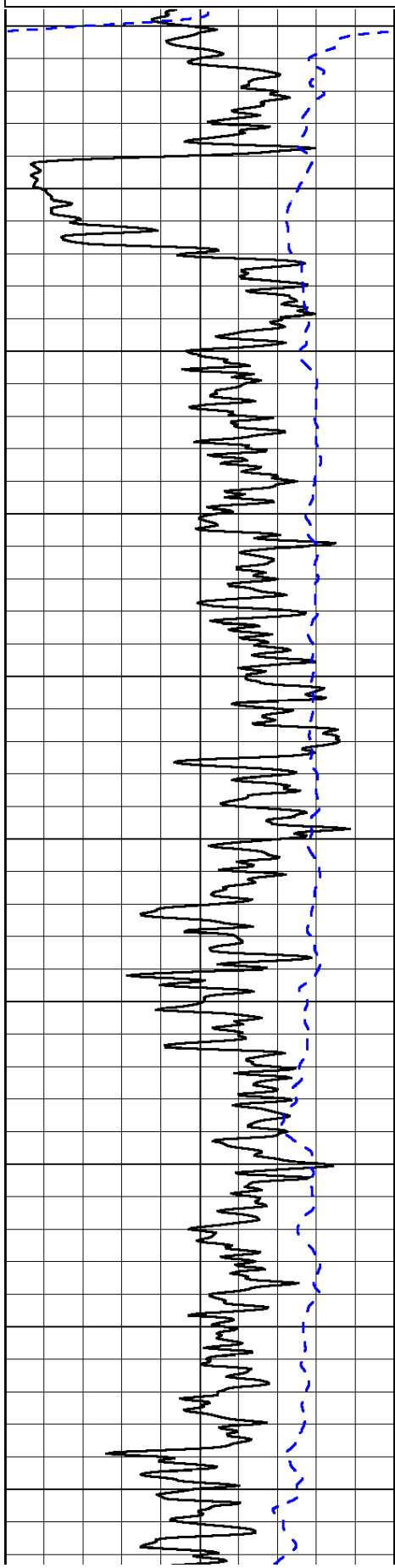
Hoisington KS, W to Hwy 281 & Hwy 4 junc,
1 N, 1/2 E, N Into

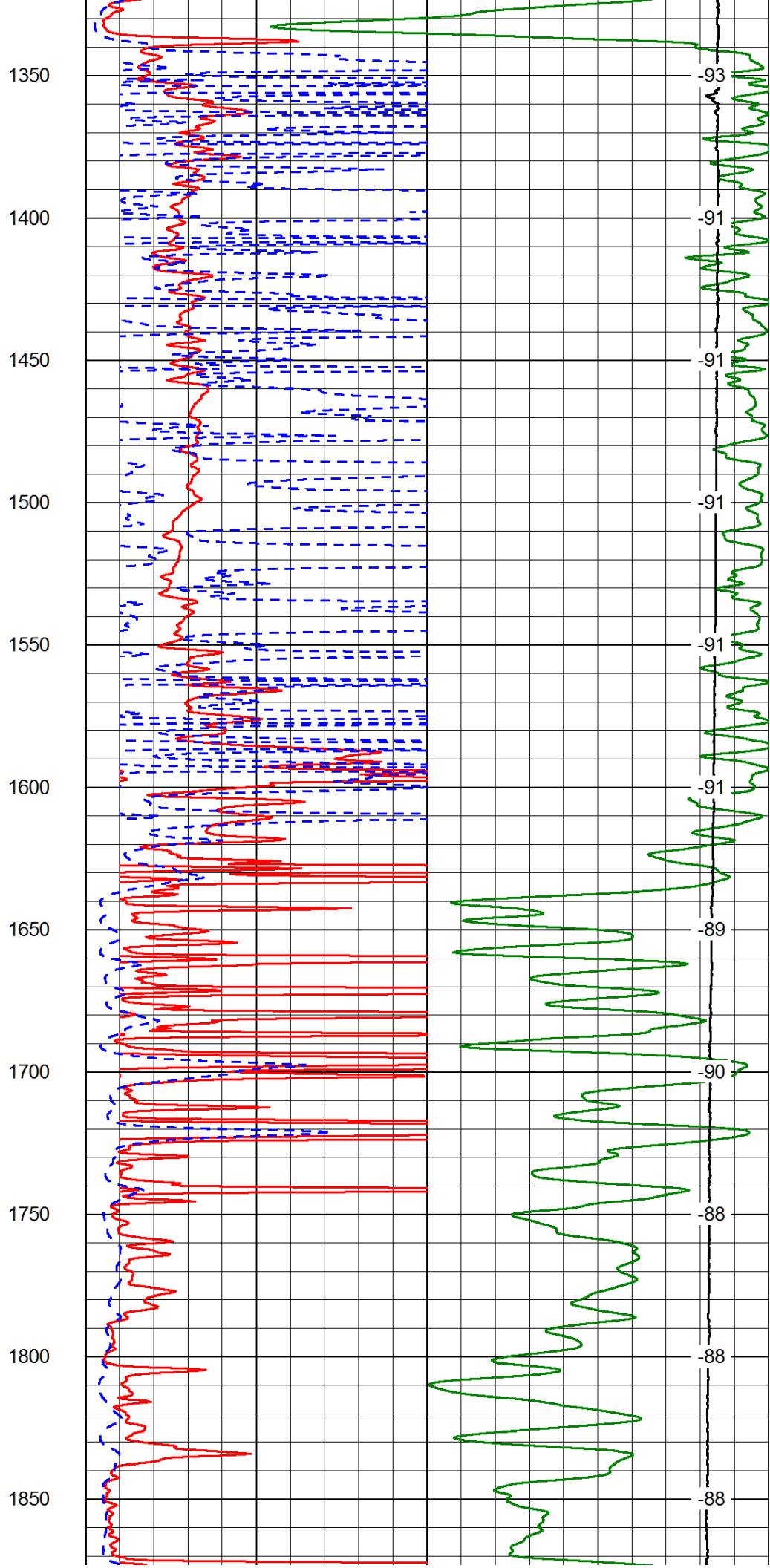
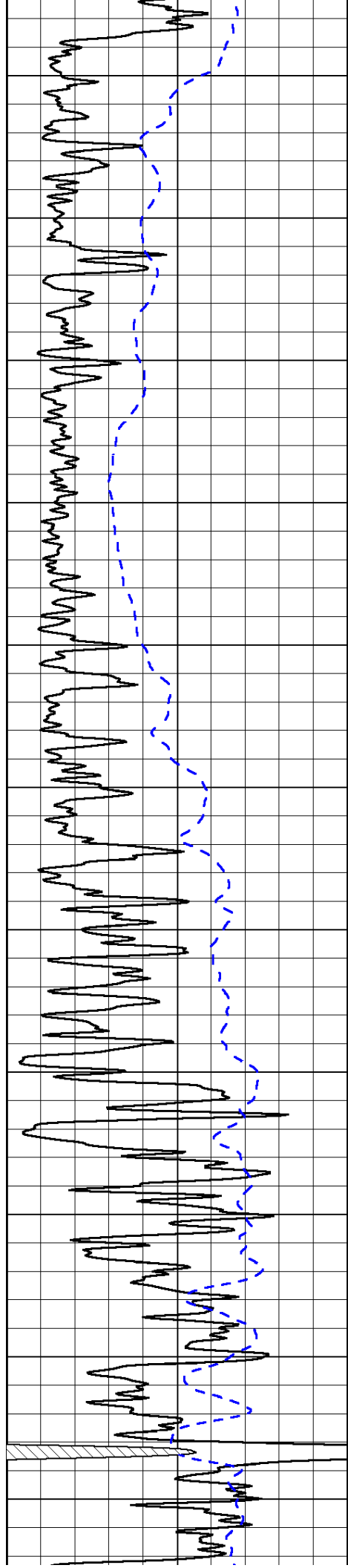
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Presentation Format: dil2in
Dataset Creation: Tue Aug 12 18:00:14 2014
Charted by: Depth in Feet scaled 1:600

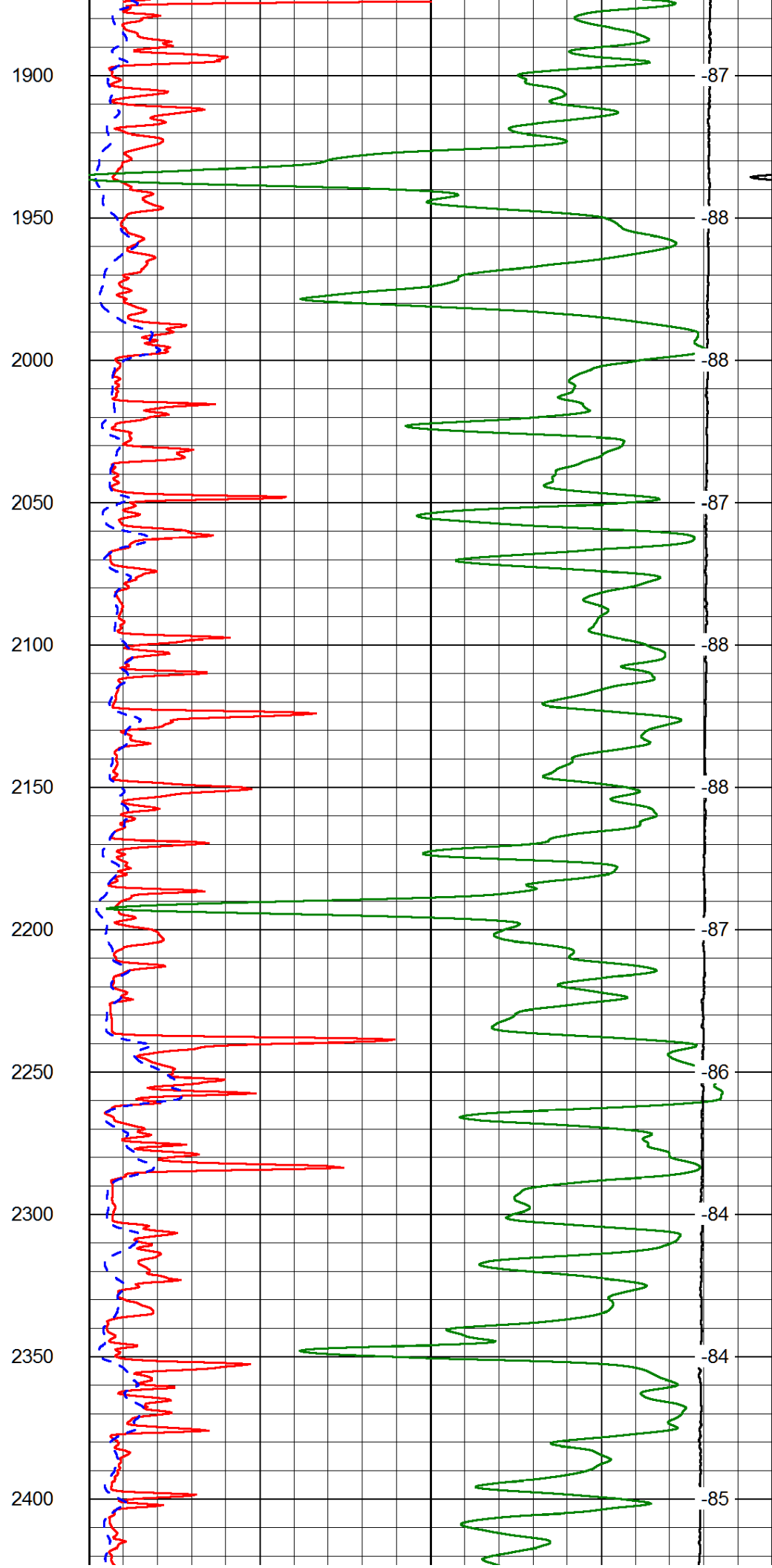
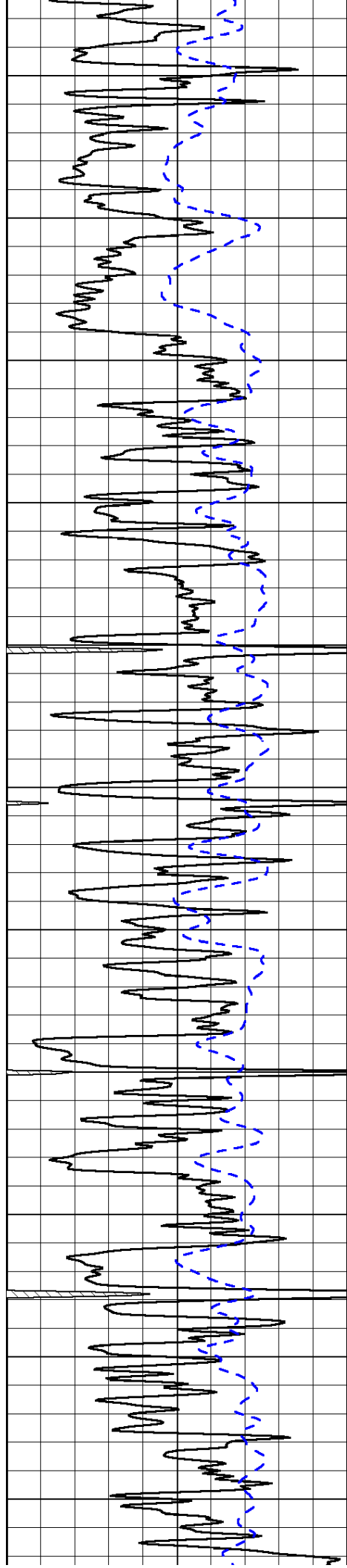
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-200	SP (mV)	0

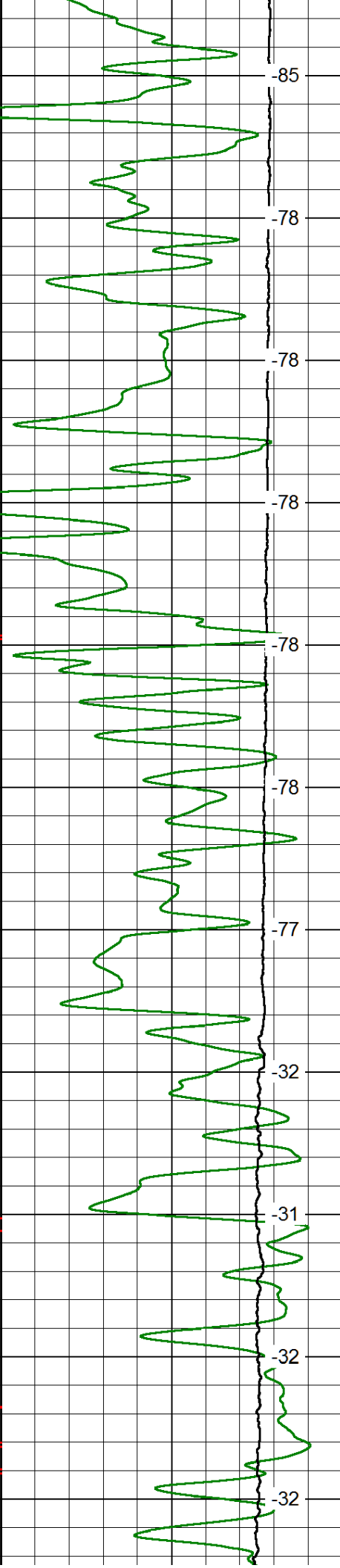
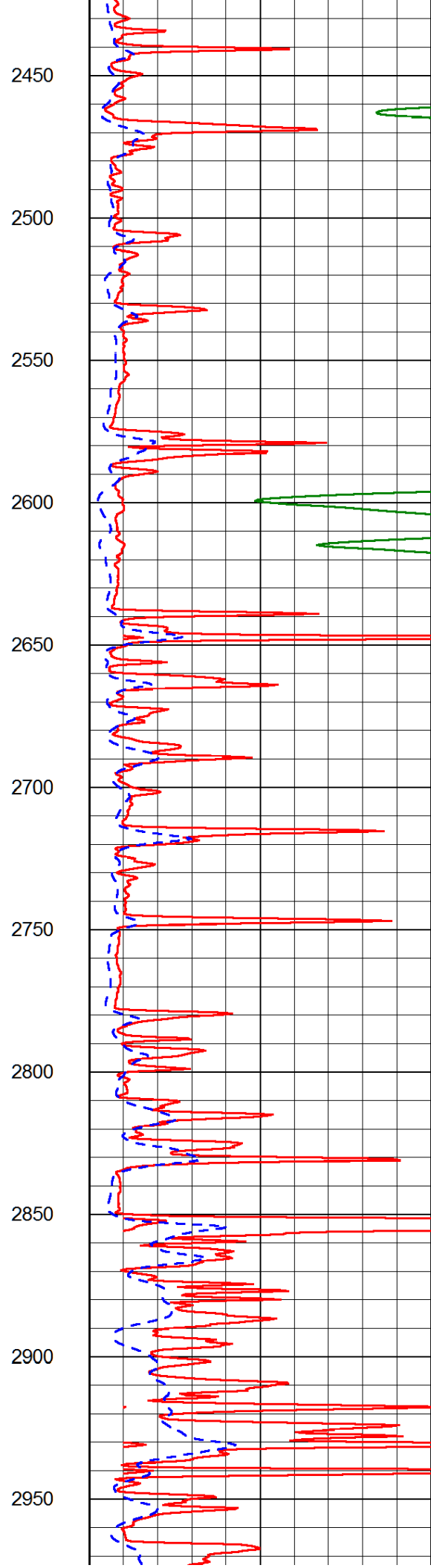
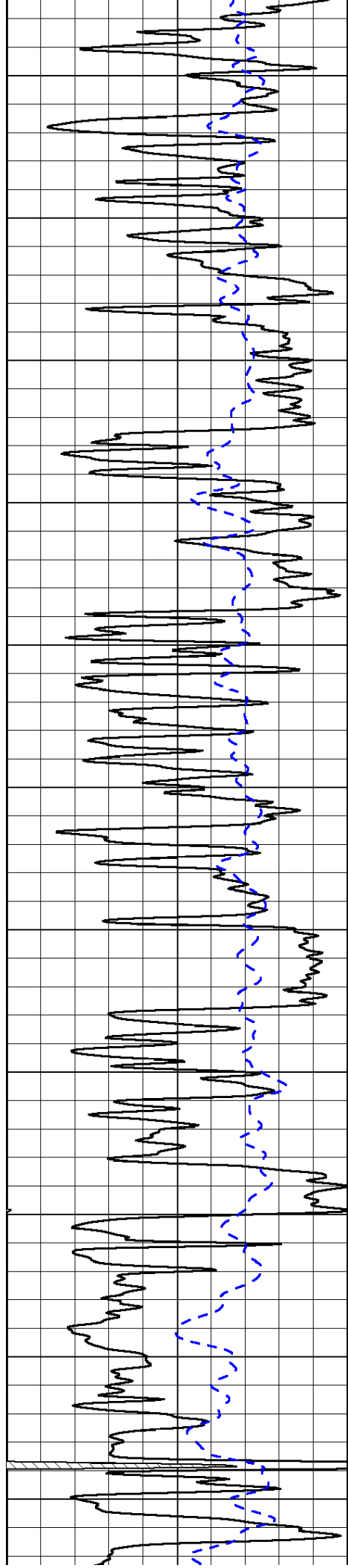
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

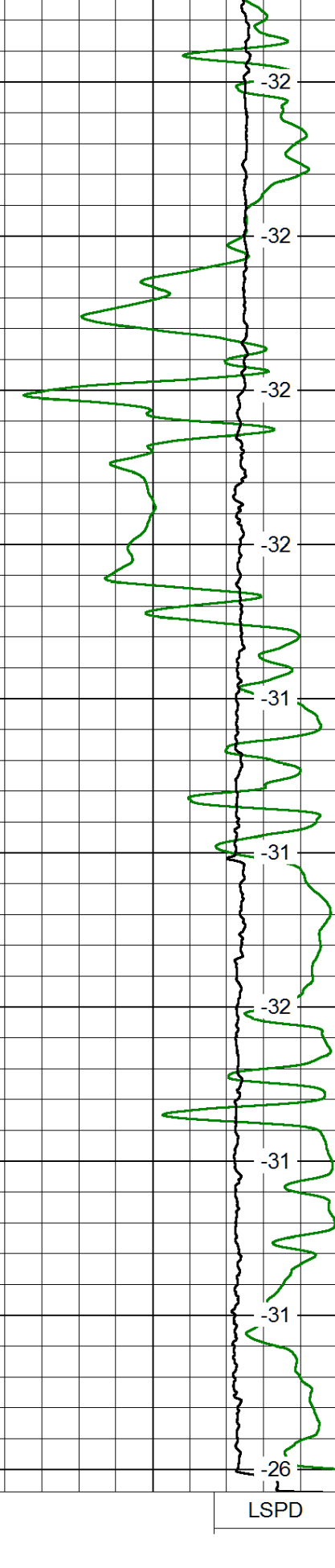
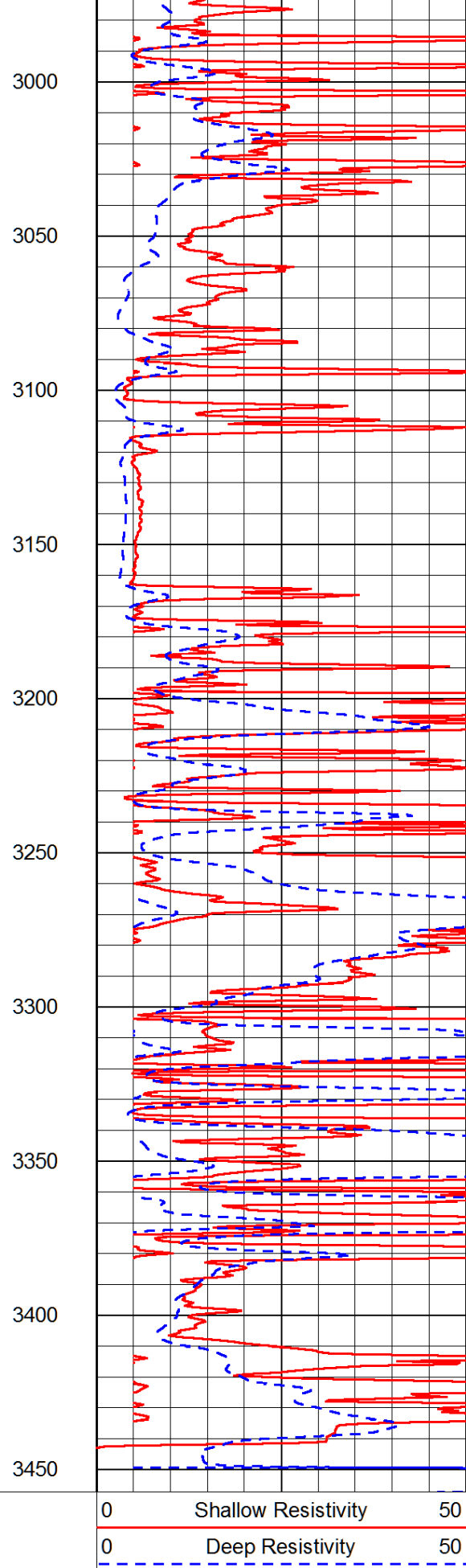
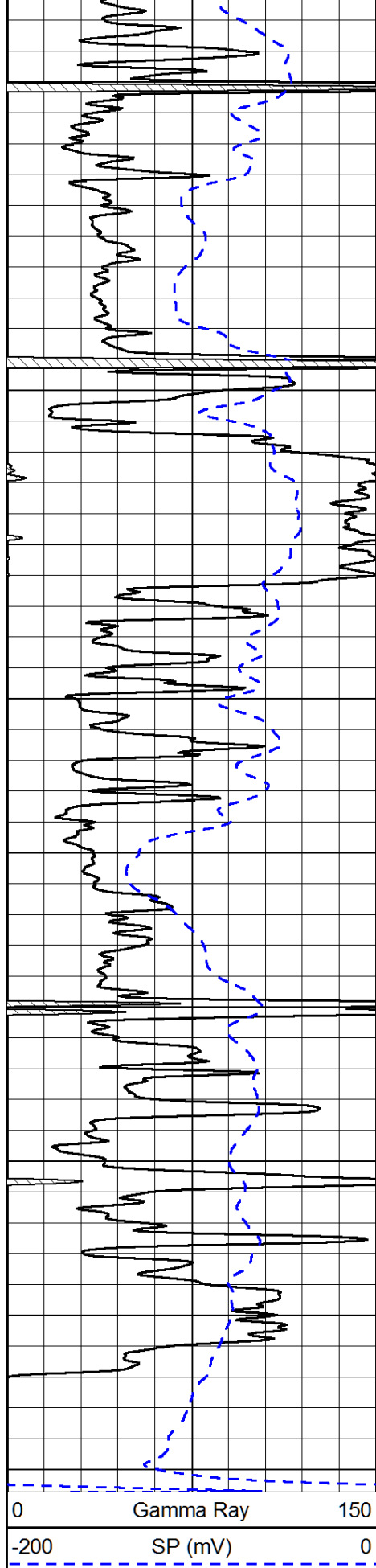
LSPD











0 Gamma Ray 150
-200 SP (mV) 0

0 Shallow Resistivity 50
0 Deep Resistivity 50

LSPD

1000 Conductivity 0
15000 Line Tension 0

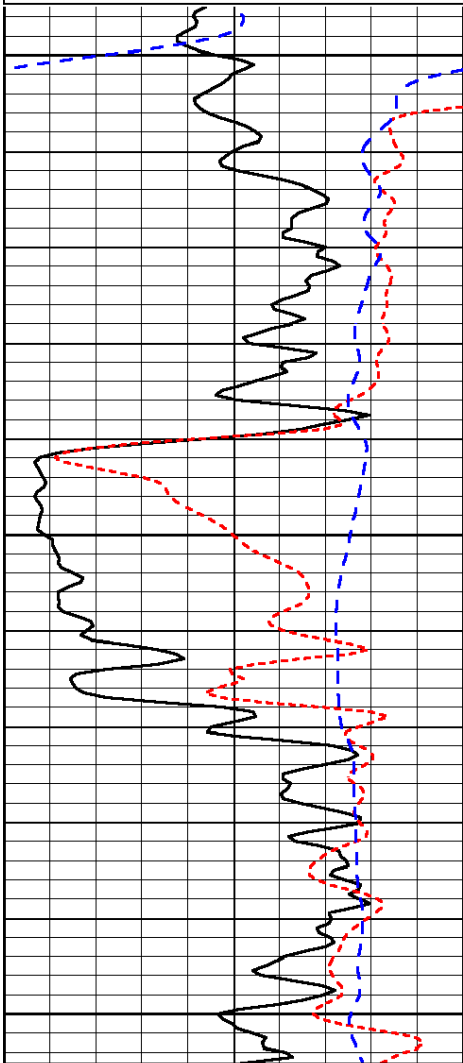
50 Shallow Resistivity 500
50 Deep Resistivity 500

Database File: awhd.db
Dataset Pathname: dil/awstk
Presentation Format: dil
Dataset Creation: Tue Aug 12 18:00:14 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

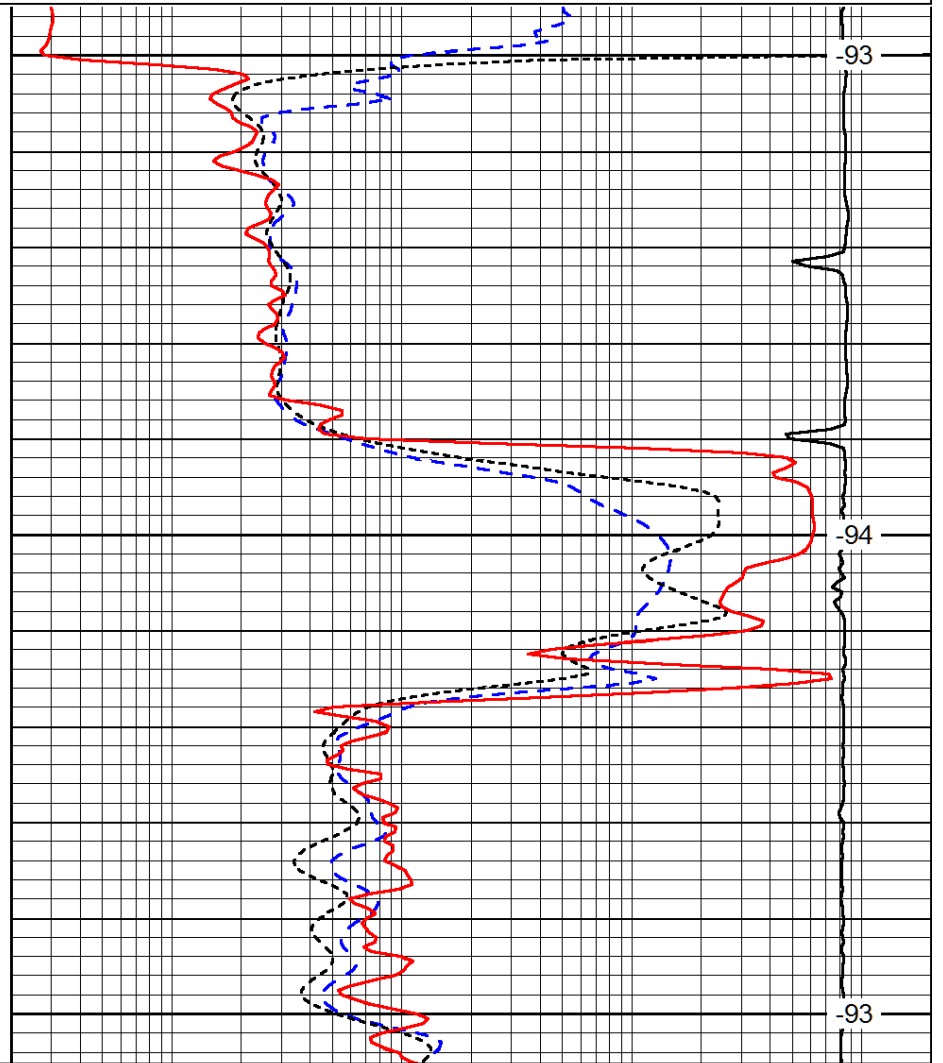


0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

850

900

950



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

Database File: awhd.db
Dataset Pathname: dil/awstk
Presentation Format: dil
Dataset Creation: Tue Aug 12 18:00:14 2014
Charted by: Depth in Feet scaled 1:240

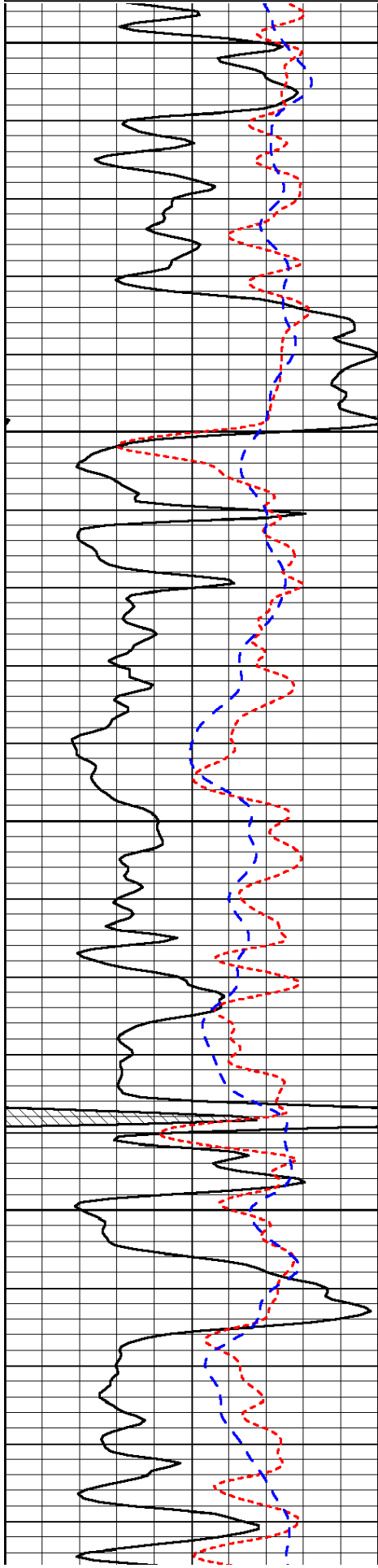
0	Gamma Ray	150
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0.2	Deep Resistivity	2000
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-160	RXO/RT	40
-200	SP (mV)	0

0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

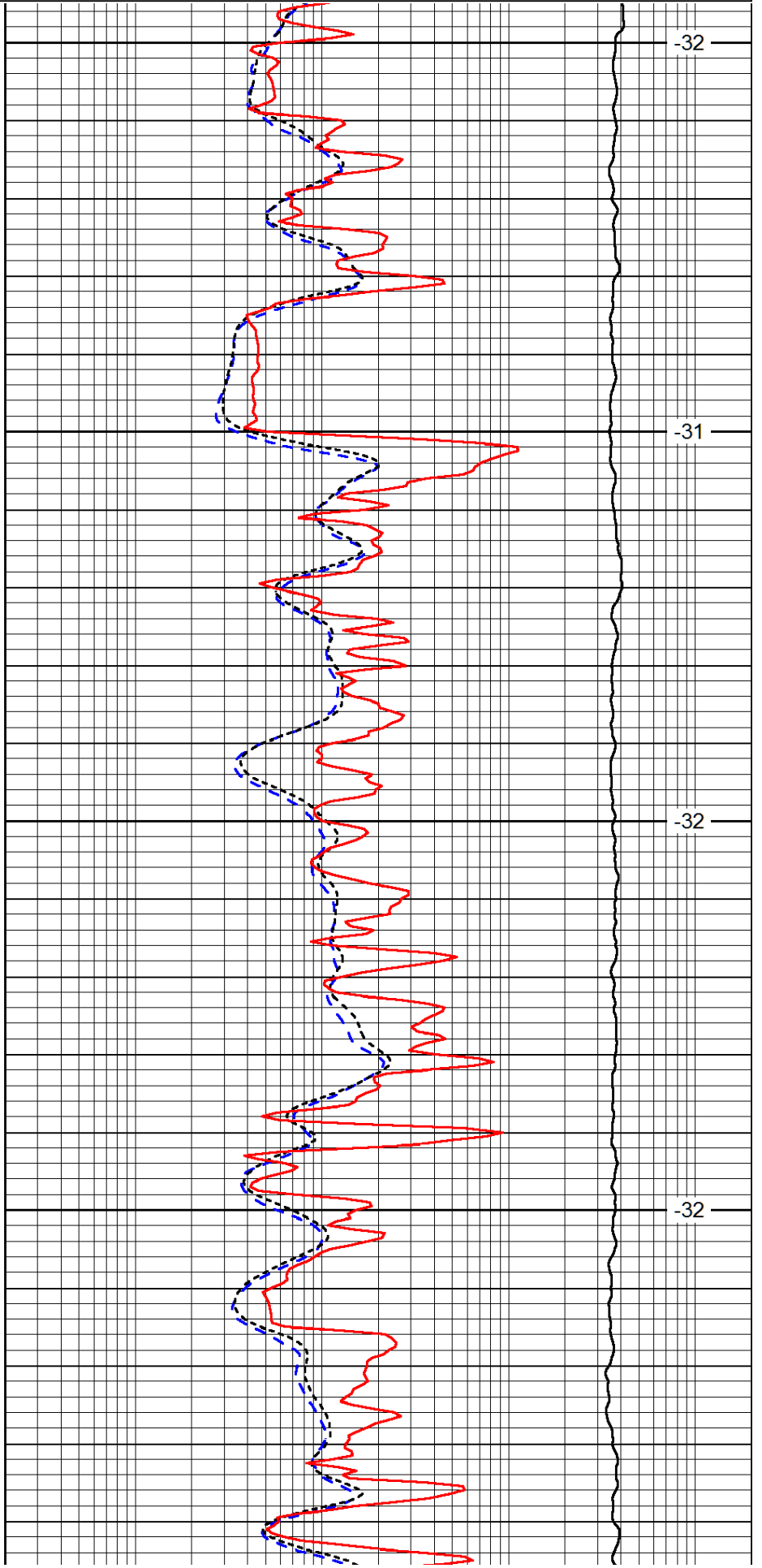


2800

2850

2900

2950

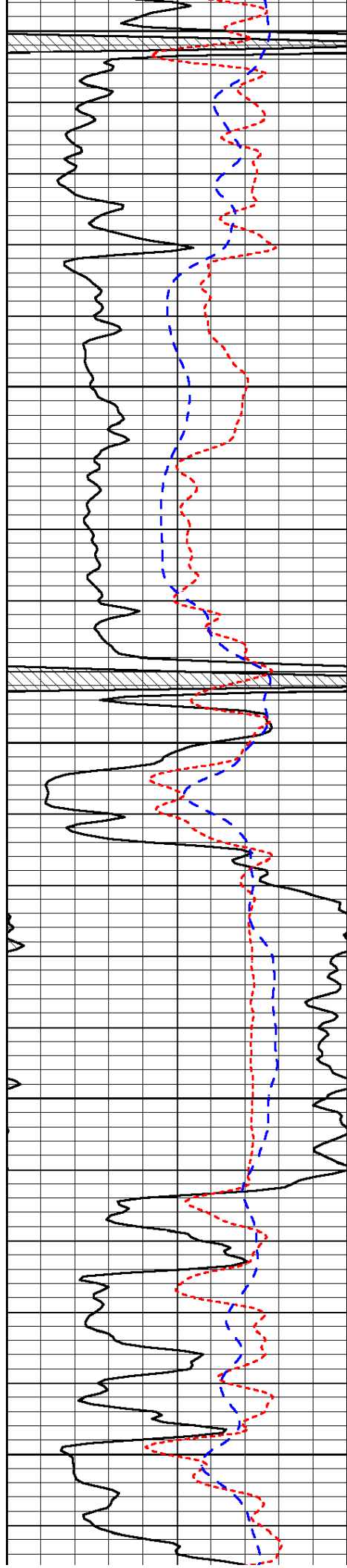


-32

-31

-32

-32



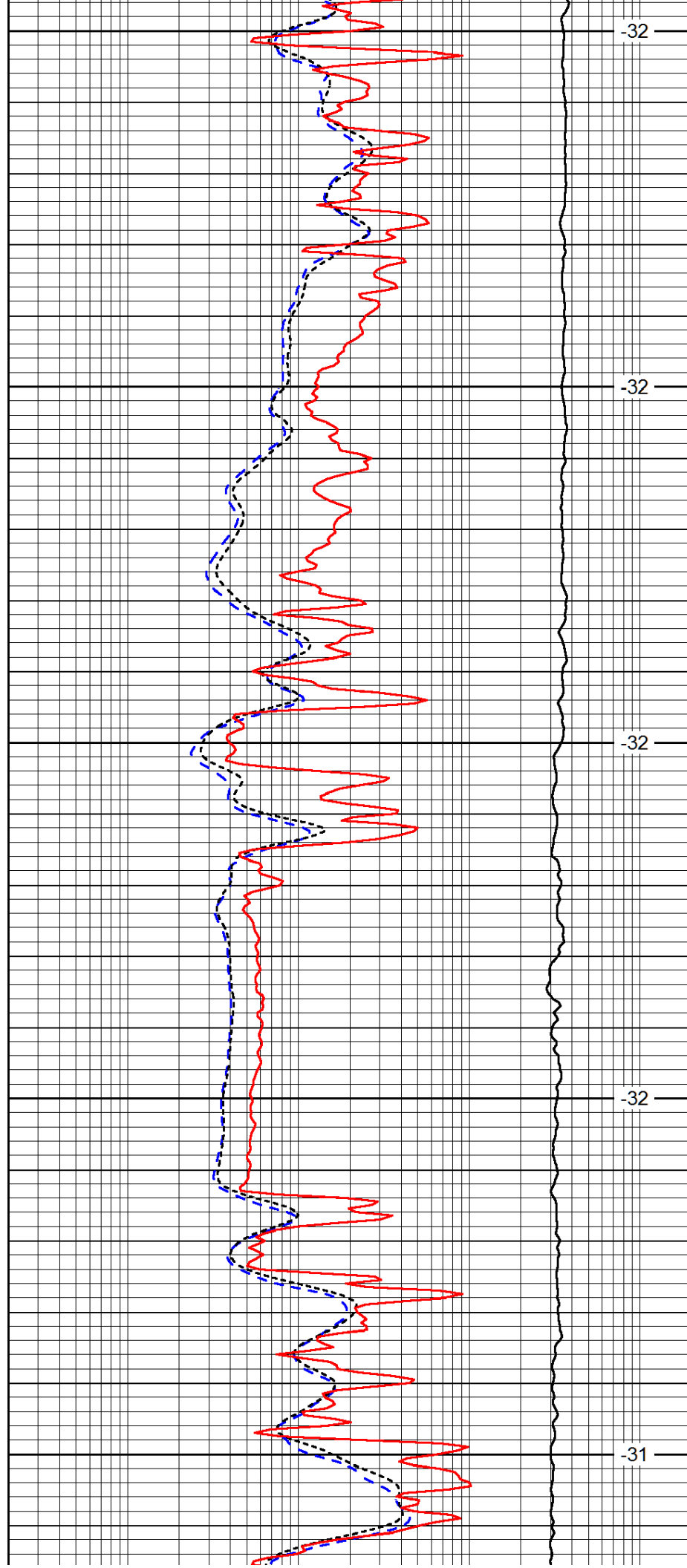
3000

3050

3100

3150

3200



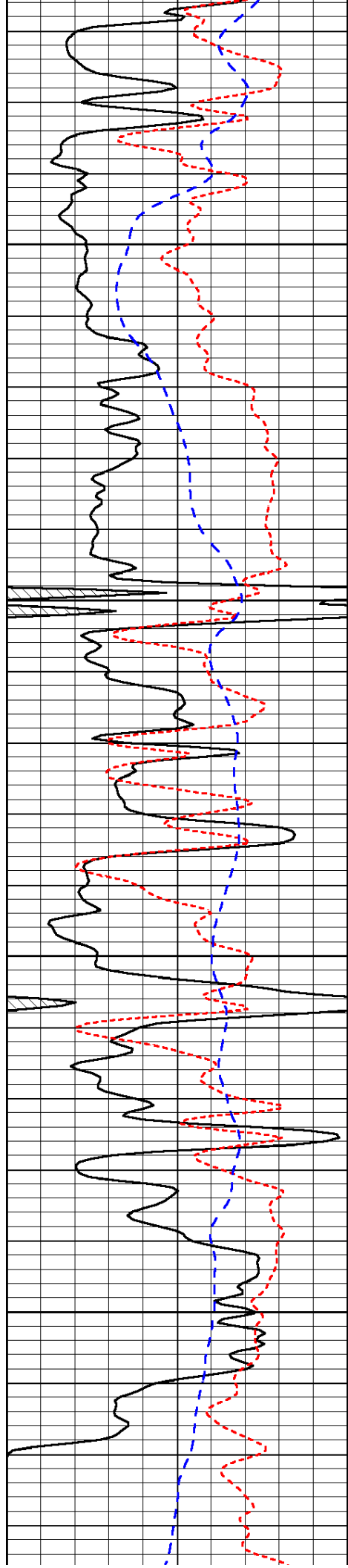
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-31

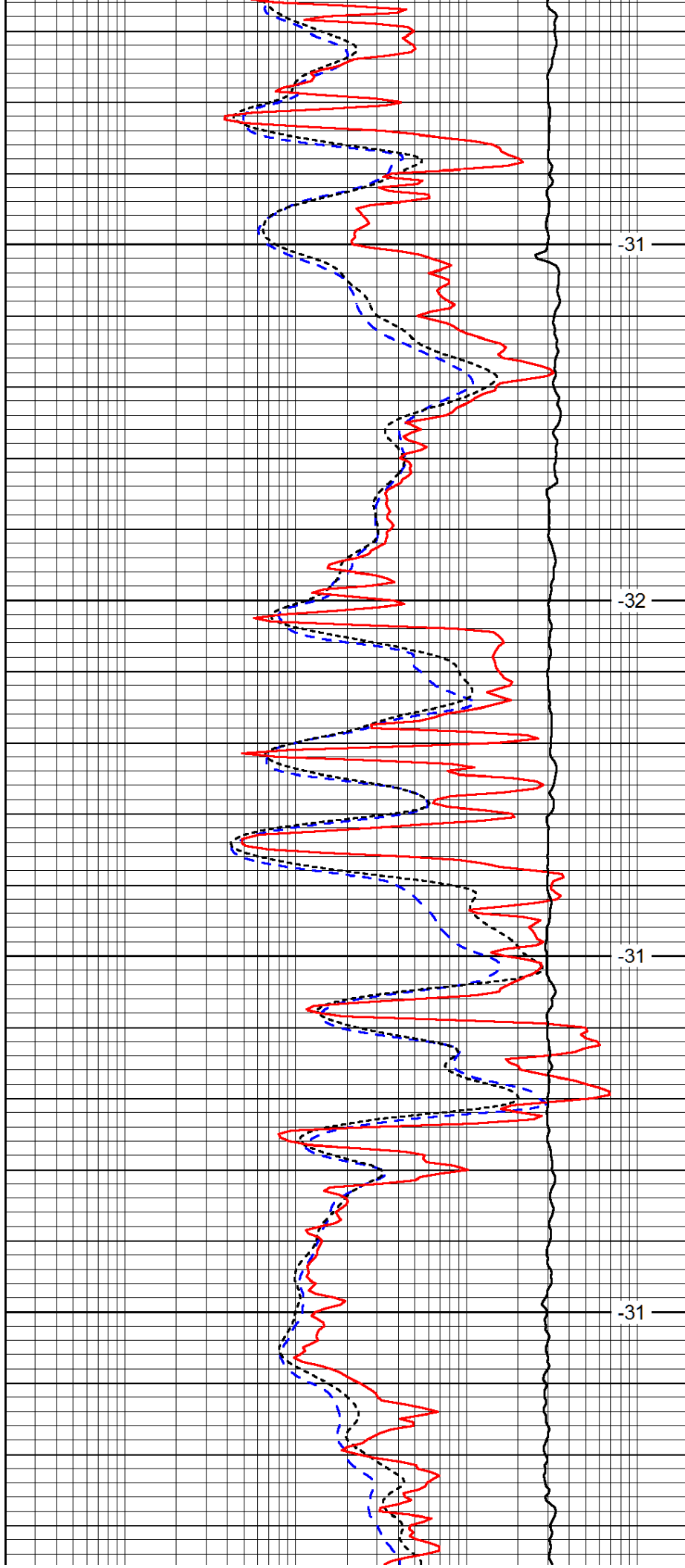


3250

3300

3350

3400

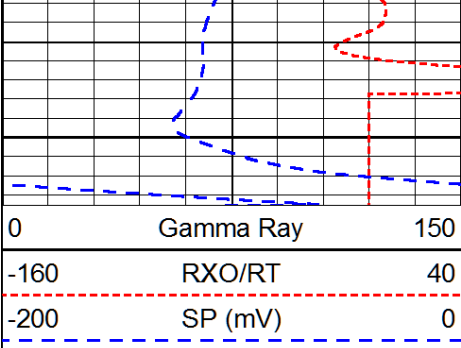


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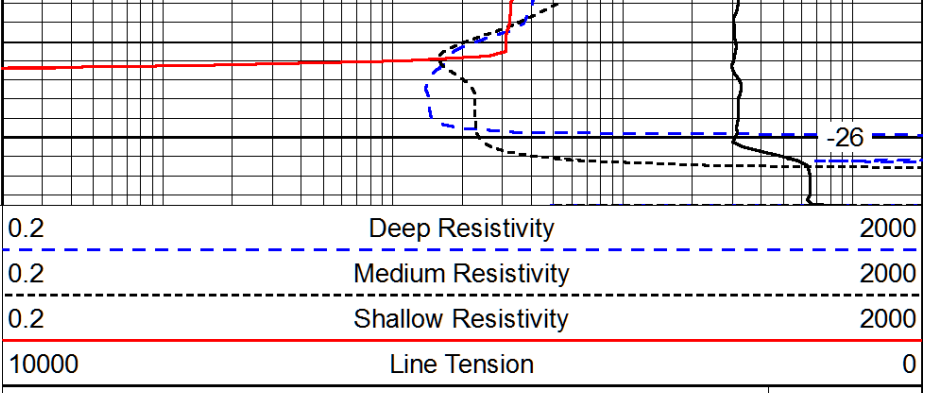
-32

-31

-31



3450



LSPD