



Pioneer Energy Services

Dual Induction Log

API No.

15-159-22,739-00-00

Company American Warrior, Inc.

Well Buckley-Doll No.2-18 restake

Field Chase-Silica

County Rice State

Kansas

Location SE SE SW NW
2635' FNL & 1187' FWL

Other Services
CNL/CDL
MEL

Sec: 18 Twp: 19S Rge: 9W

Permanent Datum Ground Level Elevation 1740
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1748
D.F. 1740
G.L. 1740

Date

5/22/2013

Run Number

One

Depth Driller

3400

Depth Logger

3402

Bottom Logged Interval

3401

Top Log Interval

300

Casing Driller

8.625 @ 345

Casing Logger

341

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity,ppm CL

5,100

Density / Viscosity

9.3 46

pH / Fluid Loss

11.0 8.8

Source of Sample

Flowline

Rm @ Meas. Temp

.34 @ 66

Rmf @ Meas. Temp

.26 @ 66

Rmc @ Meas. Temp

.46 @ 66

Source of Rmf / Rmc

Charts

Rm @ BHT

.2 @ 110

Operating Rig Time

4 Hours

Max Rec. Temp. F

110

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Kurt Talbott

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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

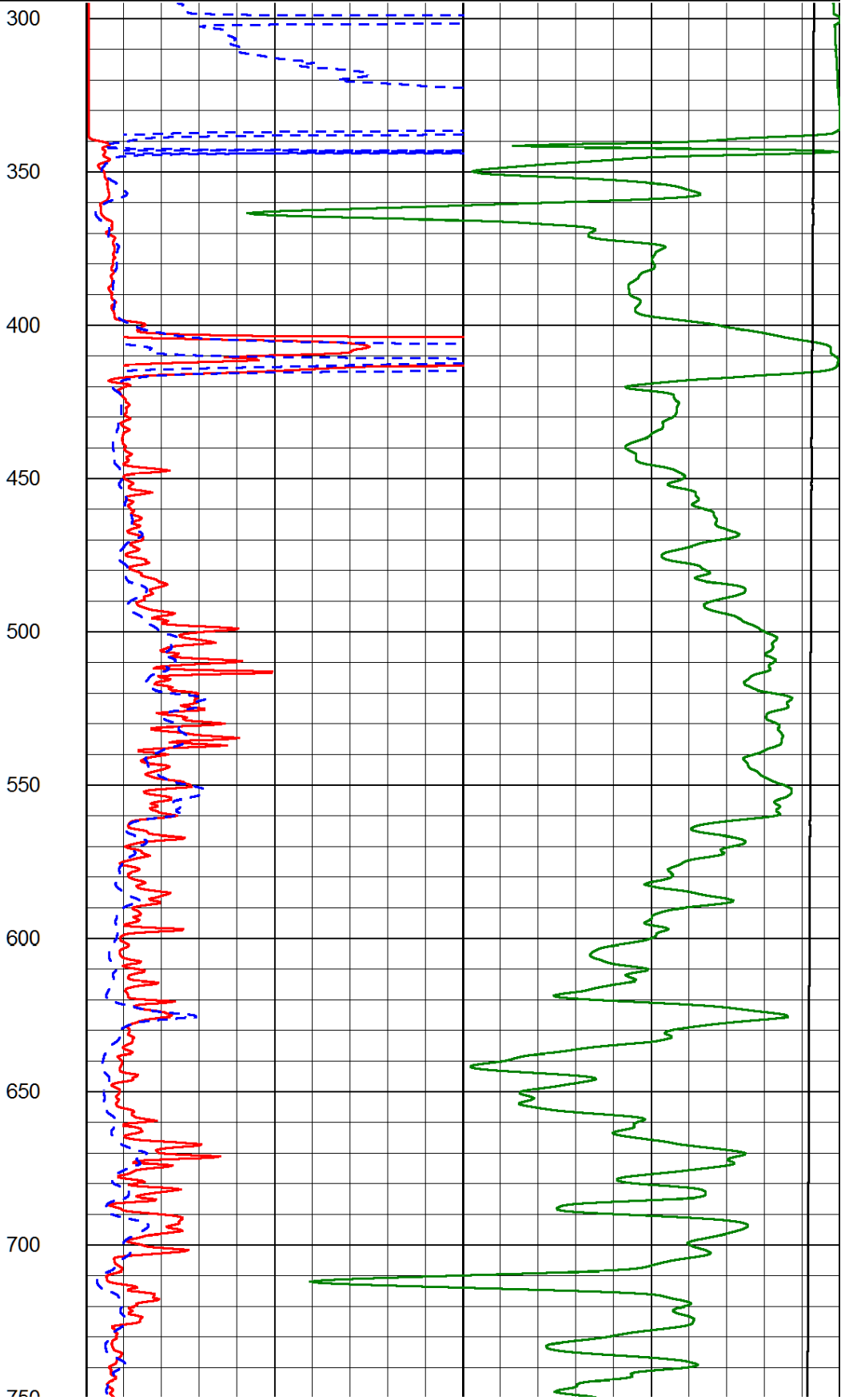
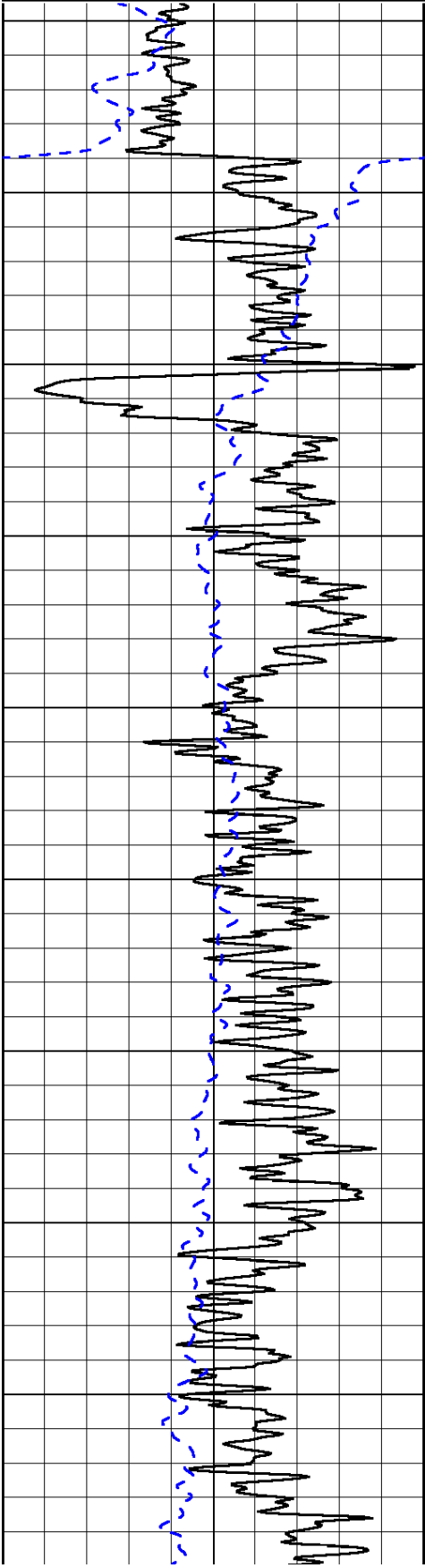
Thank you for using Log-Tech, Inc.
(785) 625-3858

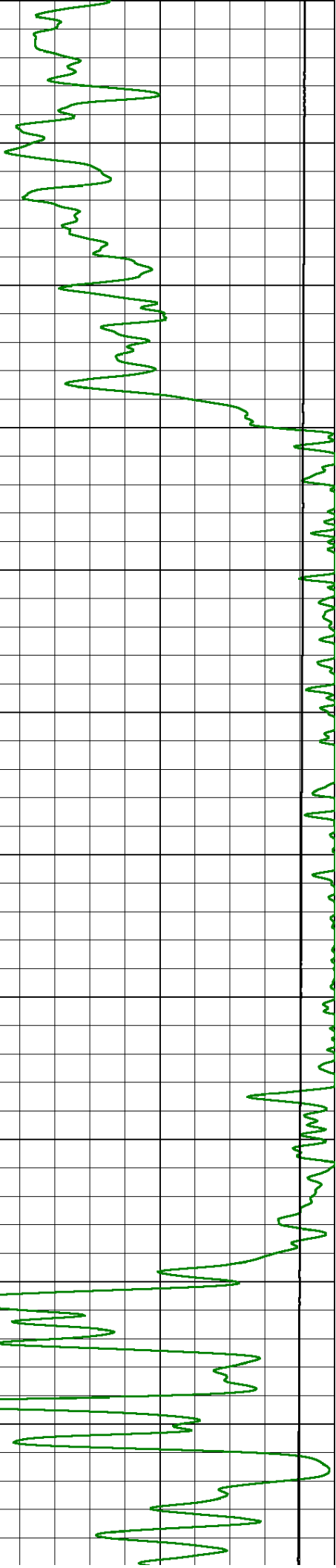
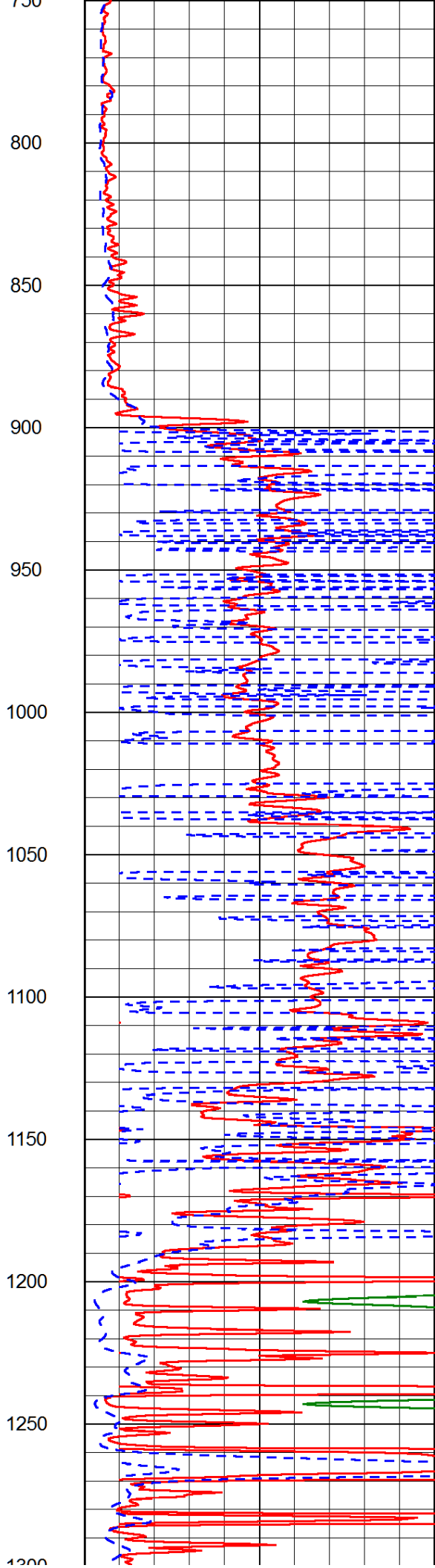
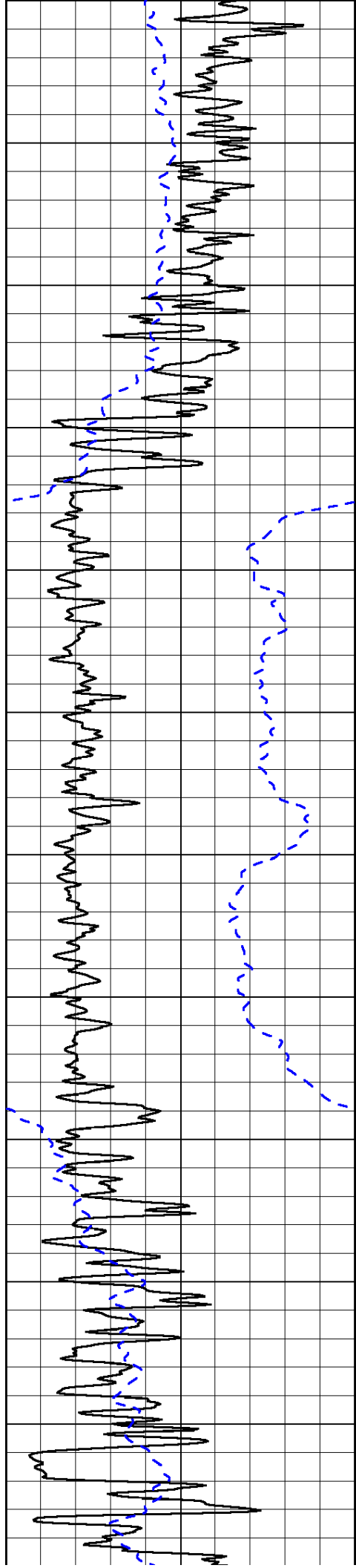
Chase KS, 2 N,
1 W, 5/8 N, E Into at Tank Batt

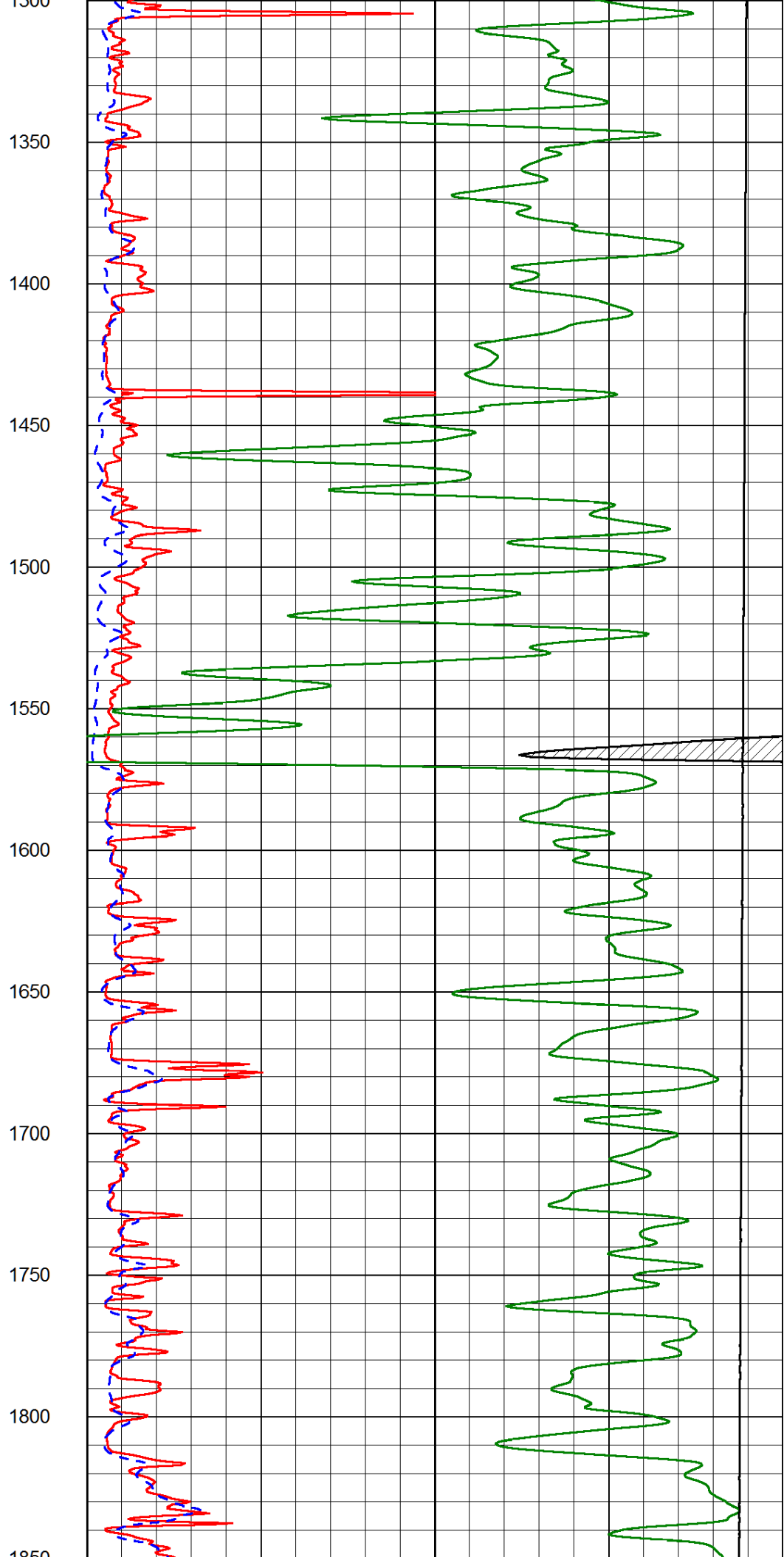
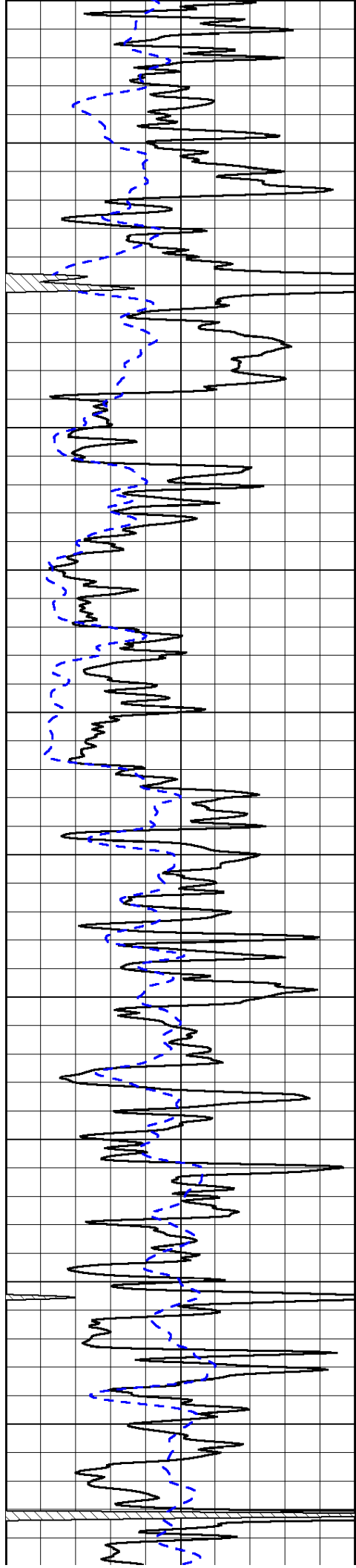
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Dataset Pathname: dil/awstk
Presentation Format: dil2in
Dataset Creation: Thu May 23 00:36:17 2013
Charted by: Depth in Feet scaled 1:600

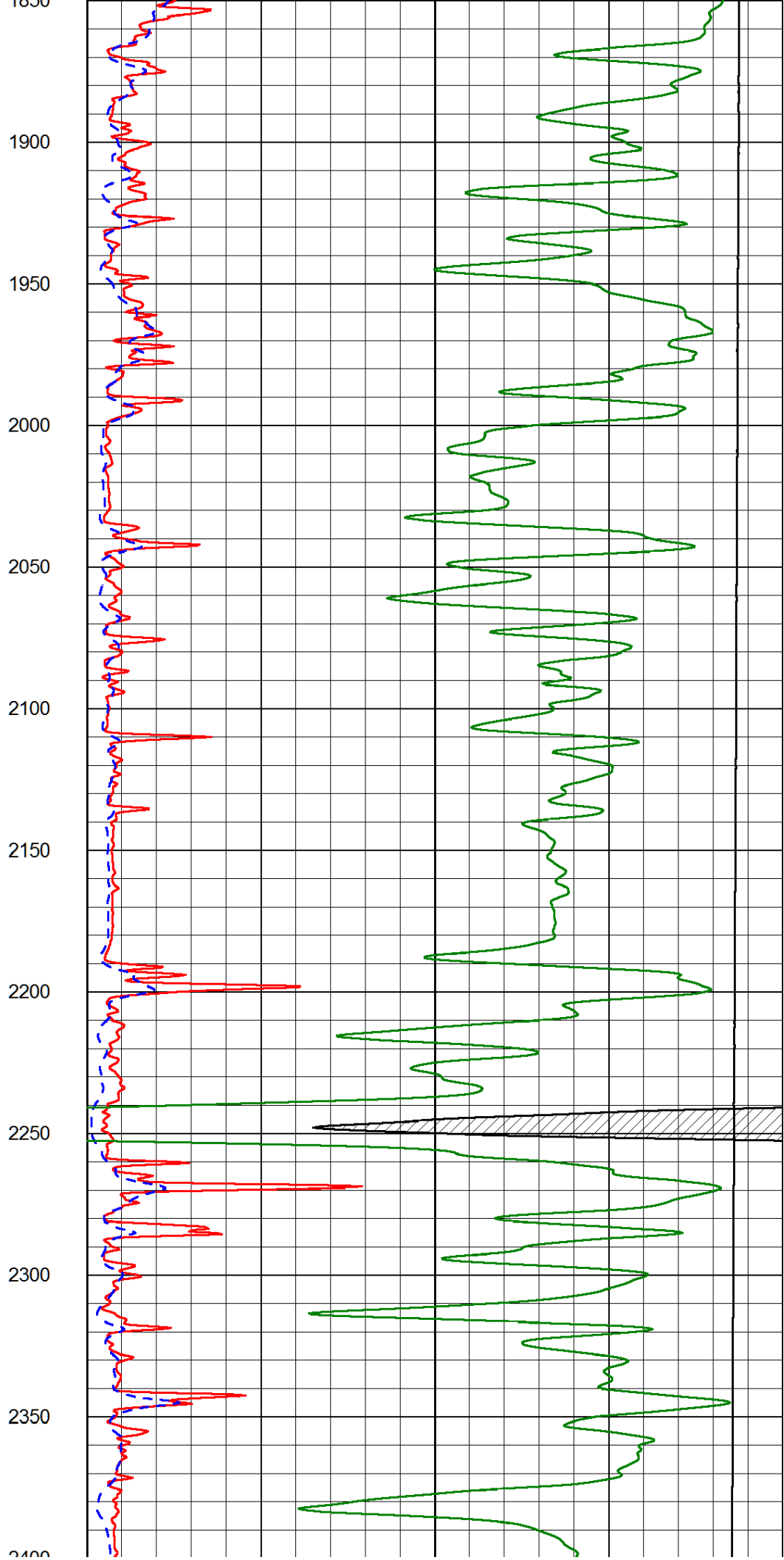
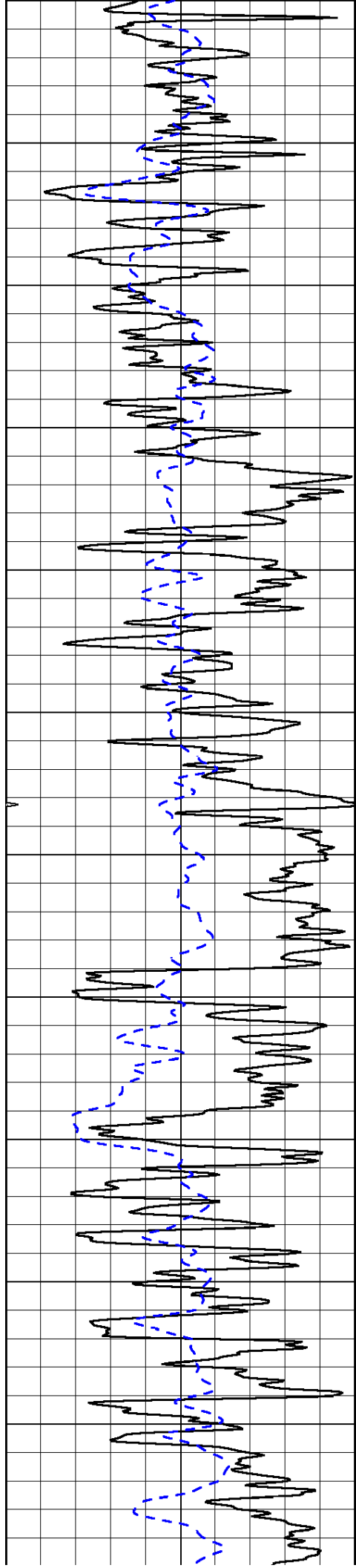
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

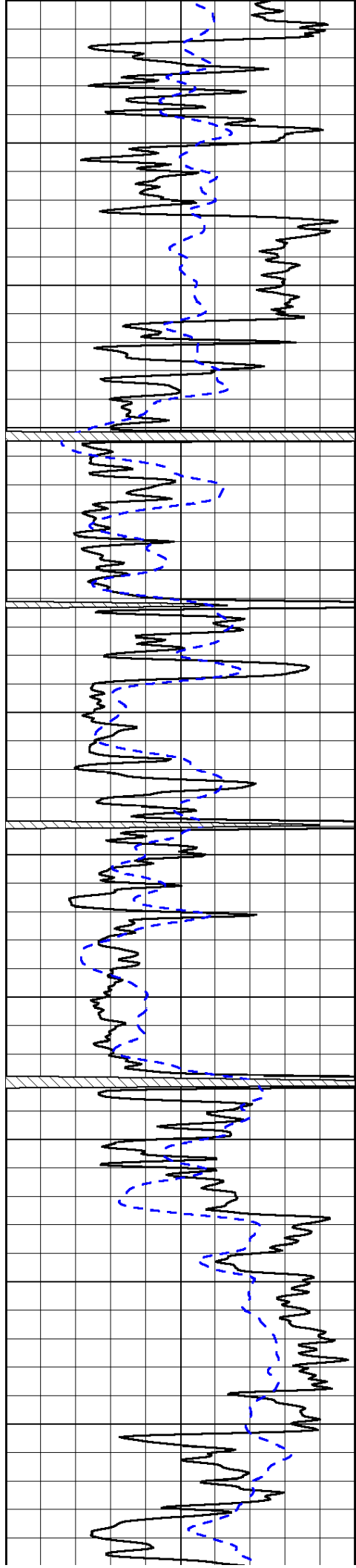
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500



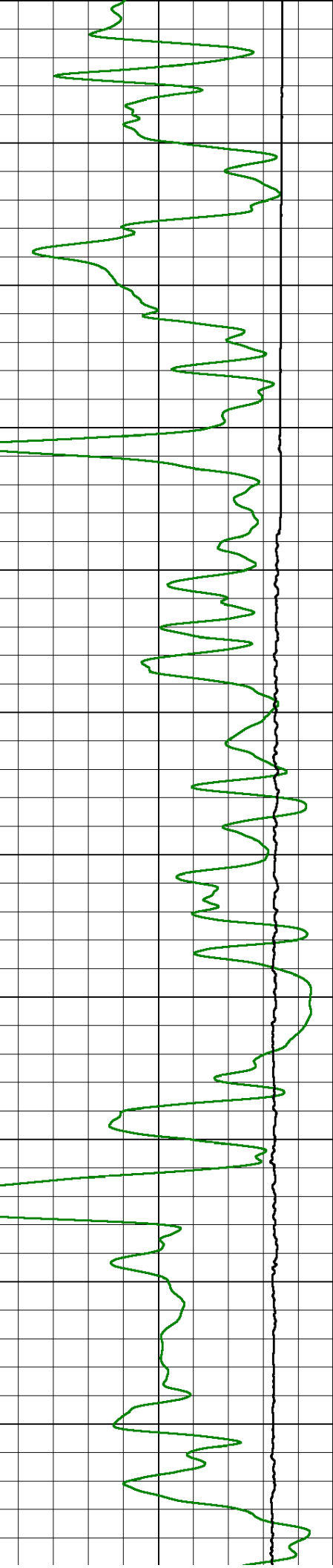
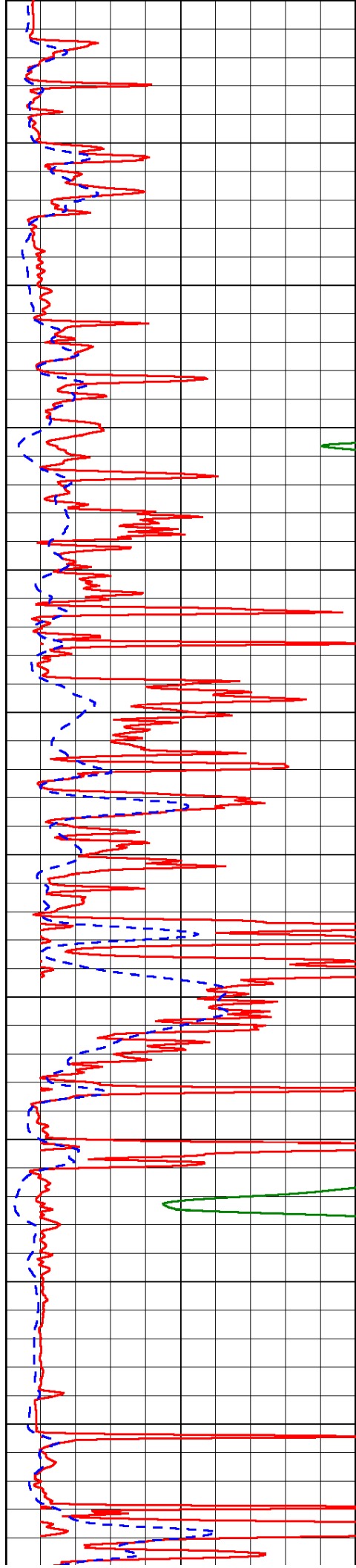


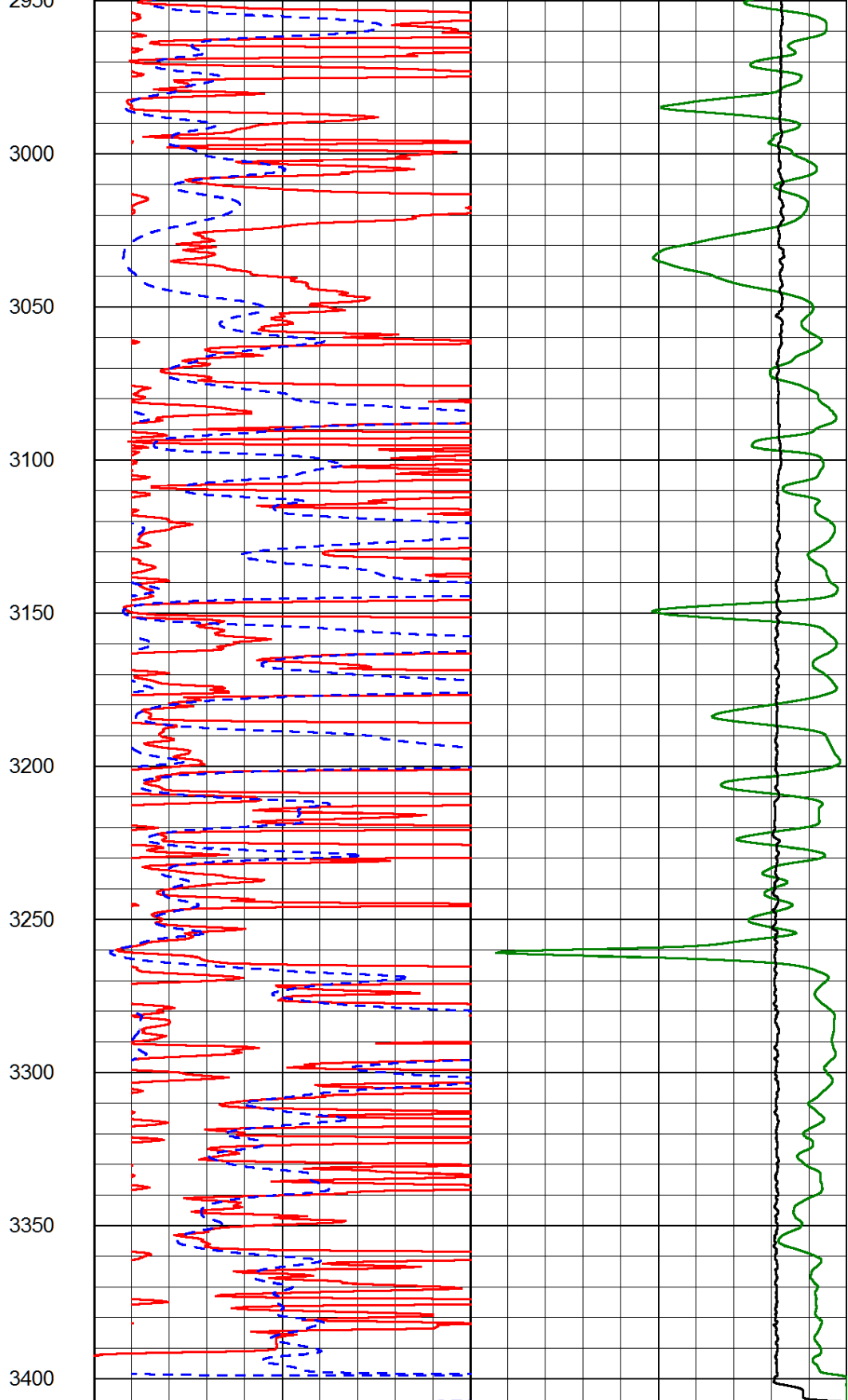
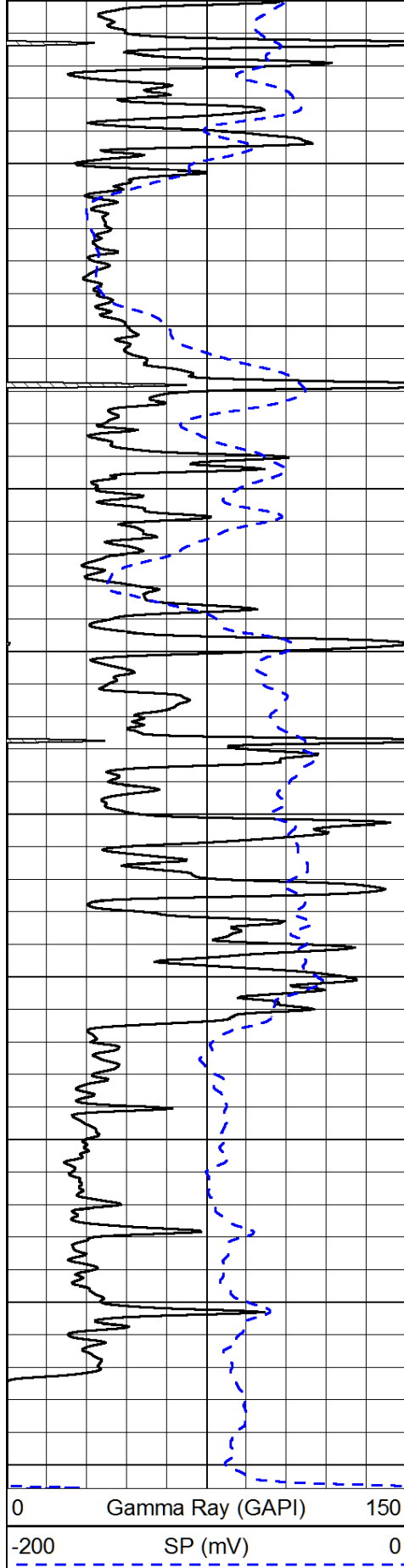






2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900
2950





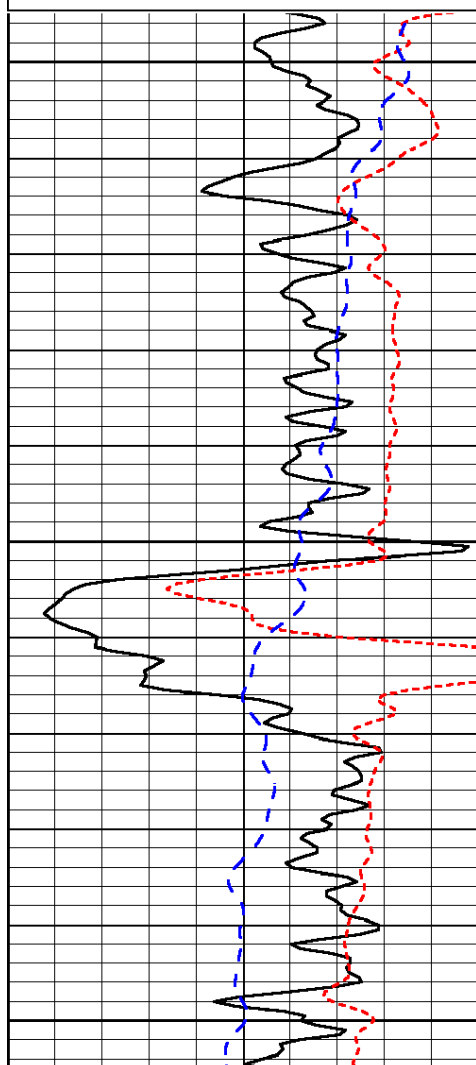
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File: awhd.db
 Dataset Pathname: dil/awstk
 Presentation Format: dil
 Dataset Creation: Thu May 23 00:36:17 2013
 Charted by: Depth in Feet scaled 1:240

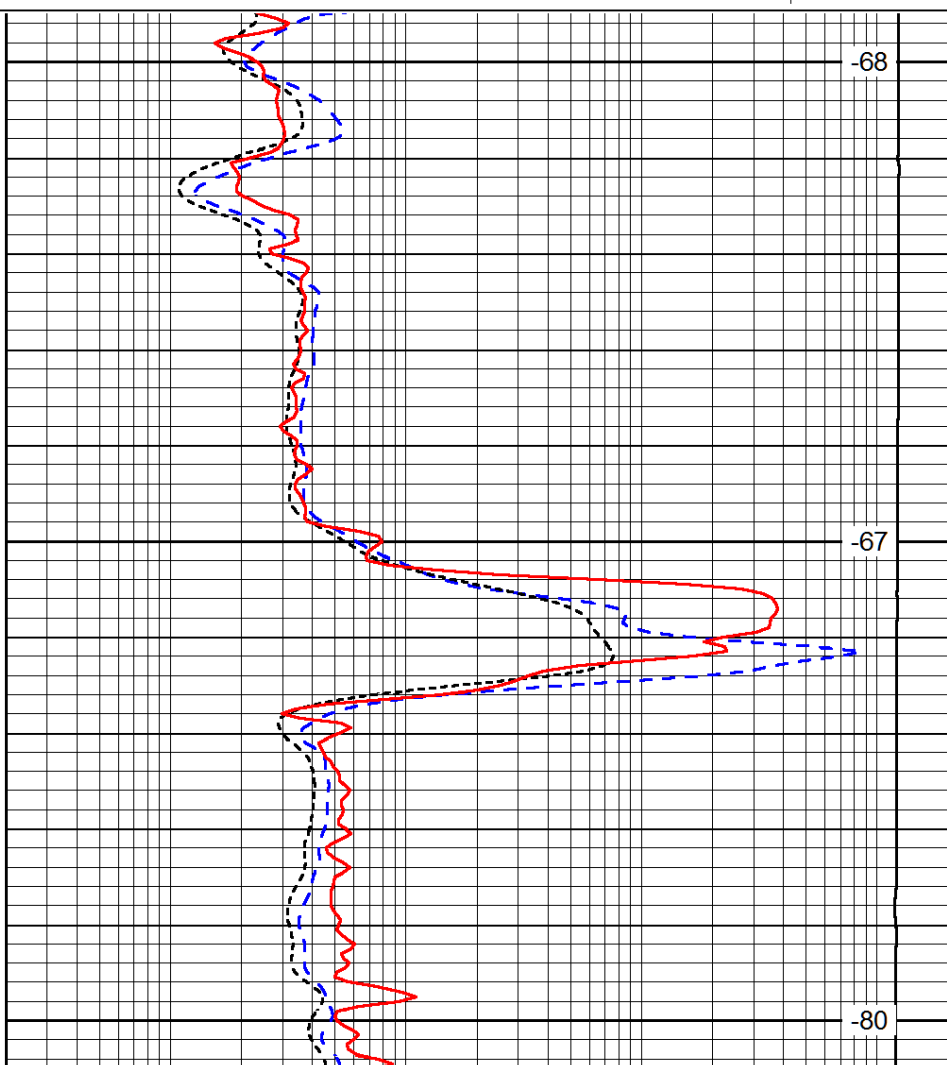
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)



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



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)

Database File: awhd.db
 Dataset Pathname: dil/awstk
 Presentation Format: cndlspec
 Dataset Creation: Thu May 23 00:36:17 2013
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
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0.2	Deep Resistivity (Ohm-m)	2000
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Gamma Ray (GAPI)	150
Caliper (in)	16

30	Compensated Density (2.71 ma) (pu)	-10
2.625	DGA (g/cc)	3.425
10000	Line Tension (lb)	0

LSPD
(ft/min)

