



DIGITAL LOG

(785) 625-3858

Dual Induction Log

API No.

15-095-30016-00-01

Company Messenger Petroleum, Inc.

Well Donald #2 'OWWO'

Field Spivey - Grabs

County Kingman State

Kansas

Location

150' S-C SW NW
2130' FNL & 660' FWLOther Services
CNL/CDL

Sec: 20

Twp: 29S

Rge: 6W

Elevation

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly BushingK.B. 1563
D.F. 1554
G.L. 1554Elevation 1554
9 Ft. Above Perm. Datum

Date

4/12/2012

Run Number

One

Depth Driller

4350

Depth Logger

4349

Bottom Logged Interval

4348

Top Log Interval

250

Casing Driller

8.625 @ 261

Casing Logger

202

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

39000

Density / Viscosity

9.3 49

pH / Fluid Loss

7.0 N/C

Source of Sample

Flowline

Rm @ Meas. Temp

0.05 @ 60

Rmf @ Meas. Temp

0.04 @ 60

Rmc @ Meas. Temp

0.07 @ 60

Source of Rmf / Rmc

Charts

Rm @ BHT

0.03 @ 120

Operating Rig Time

3 Hours

Max Rec. Temp. F

120

Equipment Number

10

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Jon Messenger

<<< 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 Log-Tech, Inc.
(785) 625-3858

Kingman,
S to 90th, 4 E, 1/2 S,
E into

Database File: messenger_donald_2.db
Dataset Pathname: stack/pass5.1
Presentation Format: dil2in
Dataset Creation: Thu Apr 12 12:28:48 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

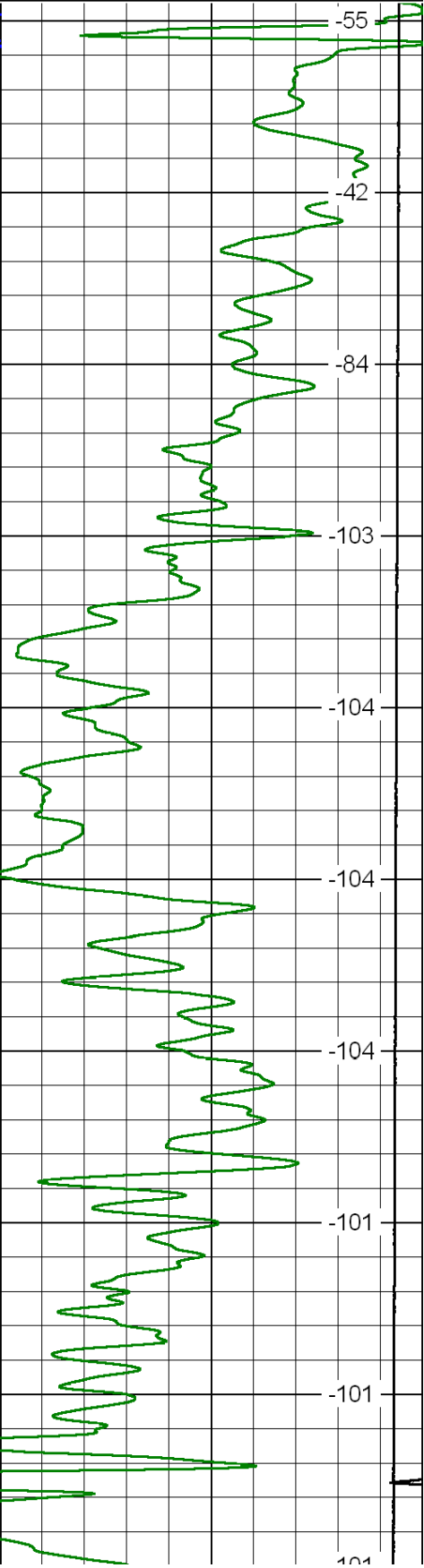
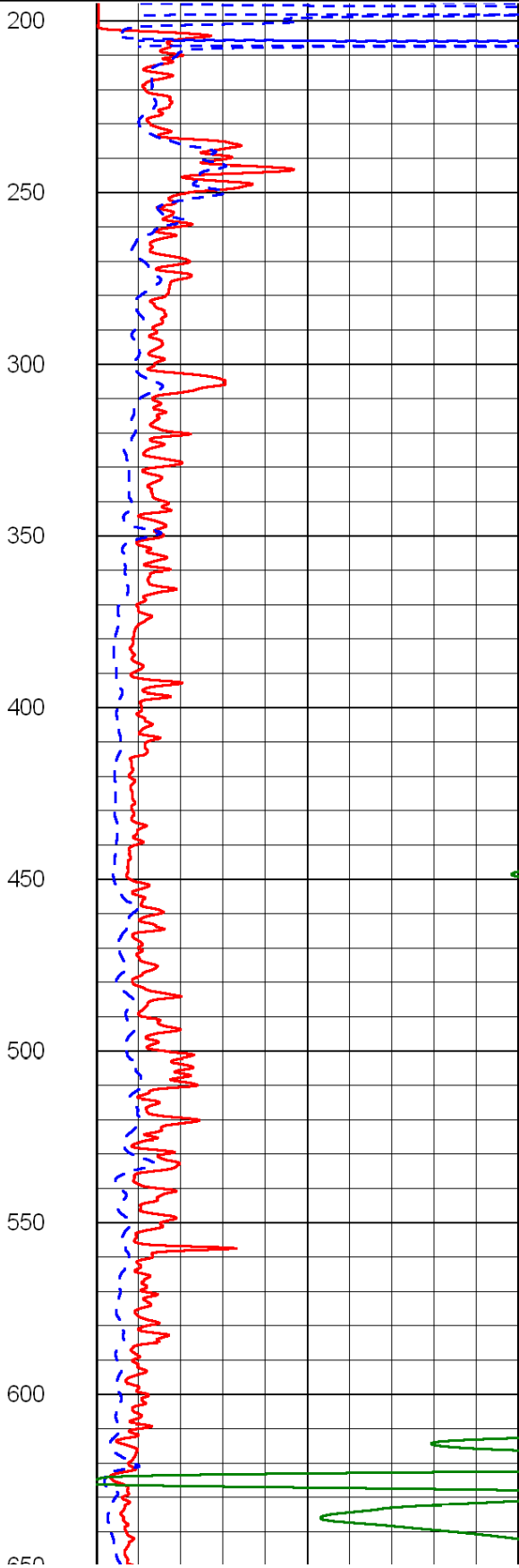
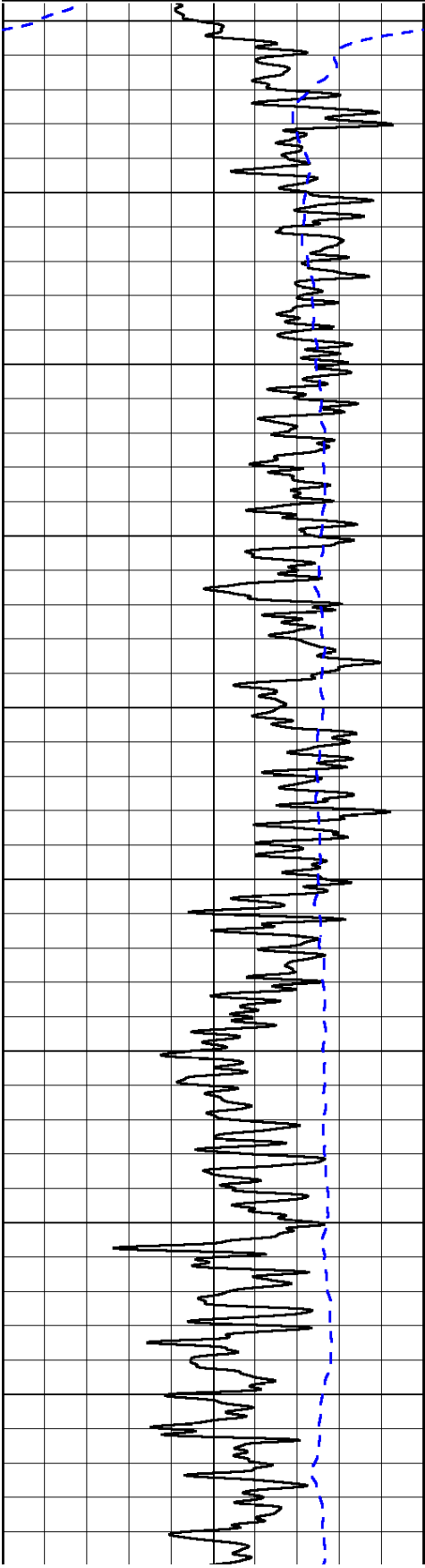
Charted by: Depth in feet scaled 1:600

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

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

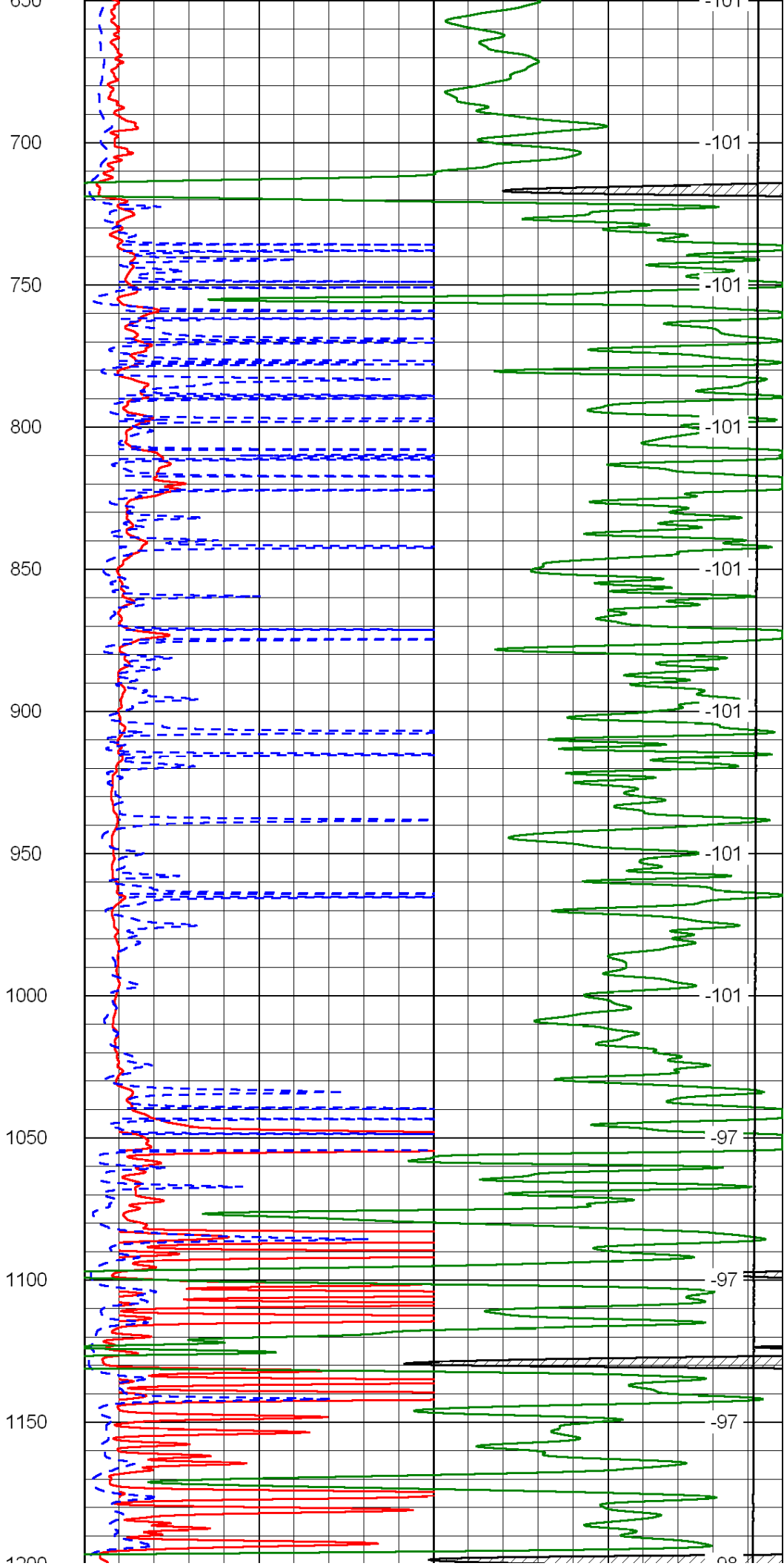
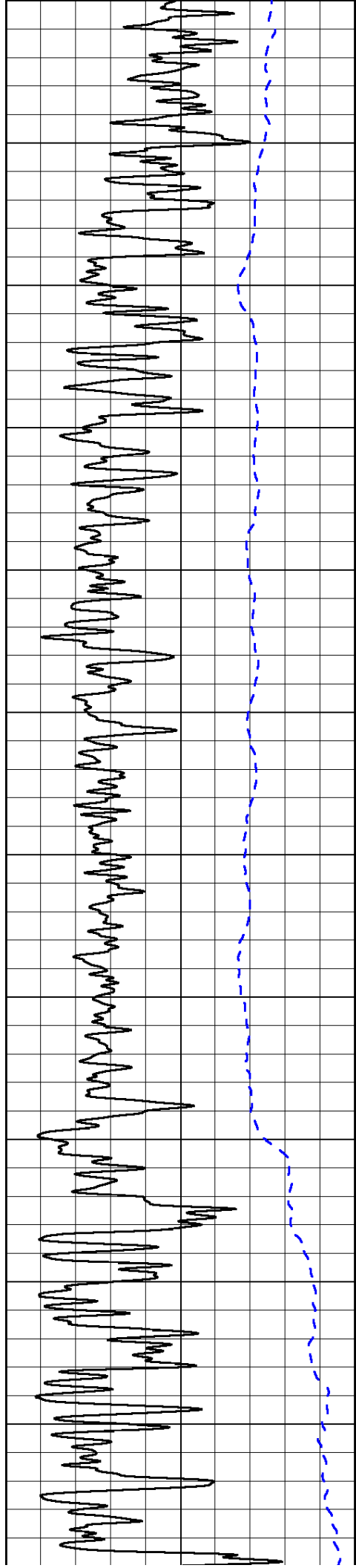
LSPD
(ft/min)

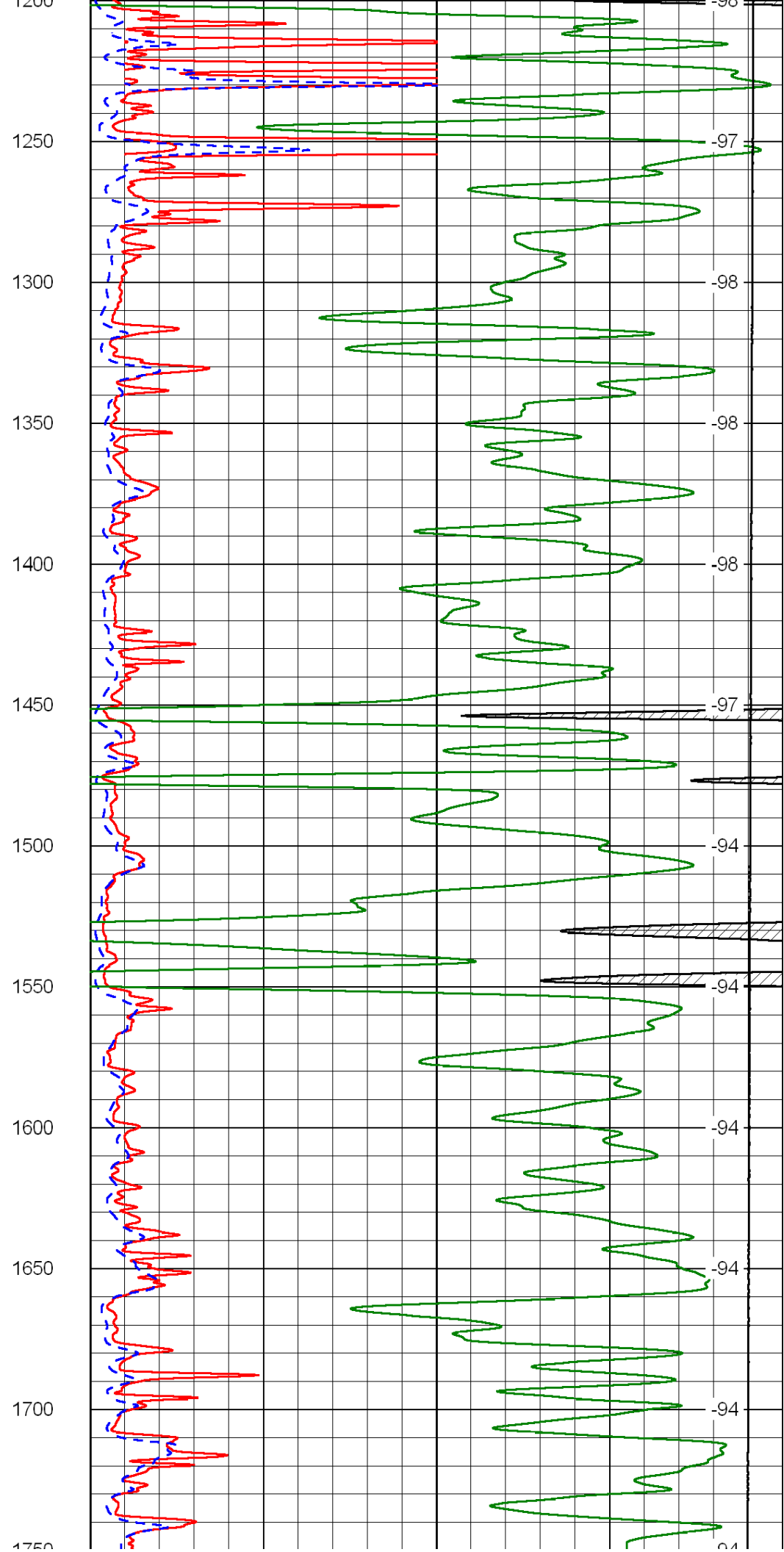
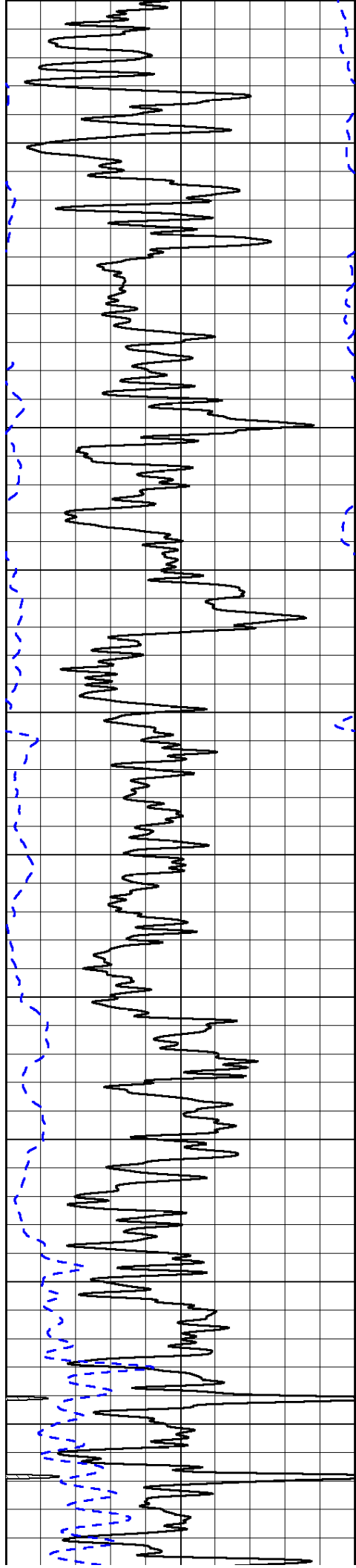
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	(Ohm-m)	
50	Deep Resistivity (Ohm-m)	500

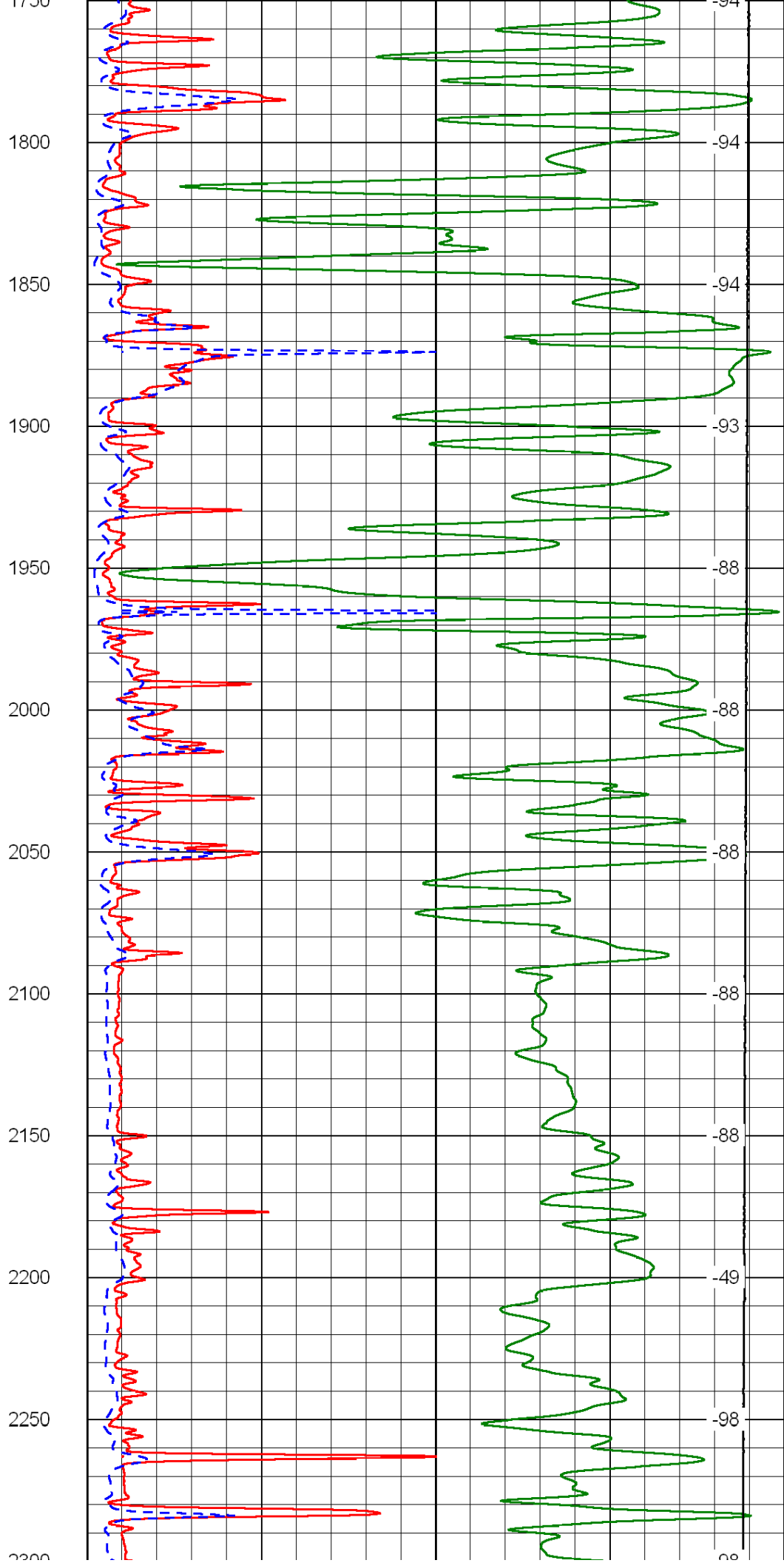
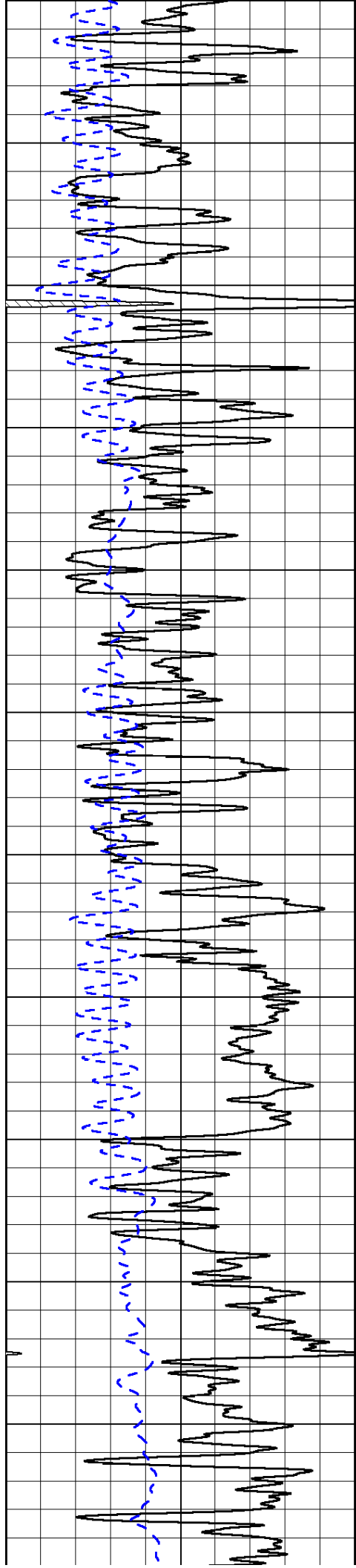


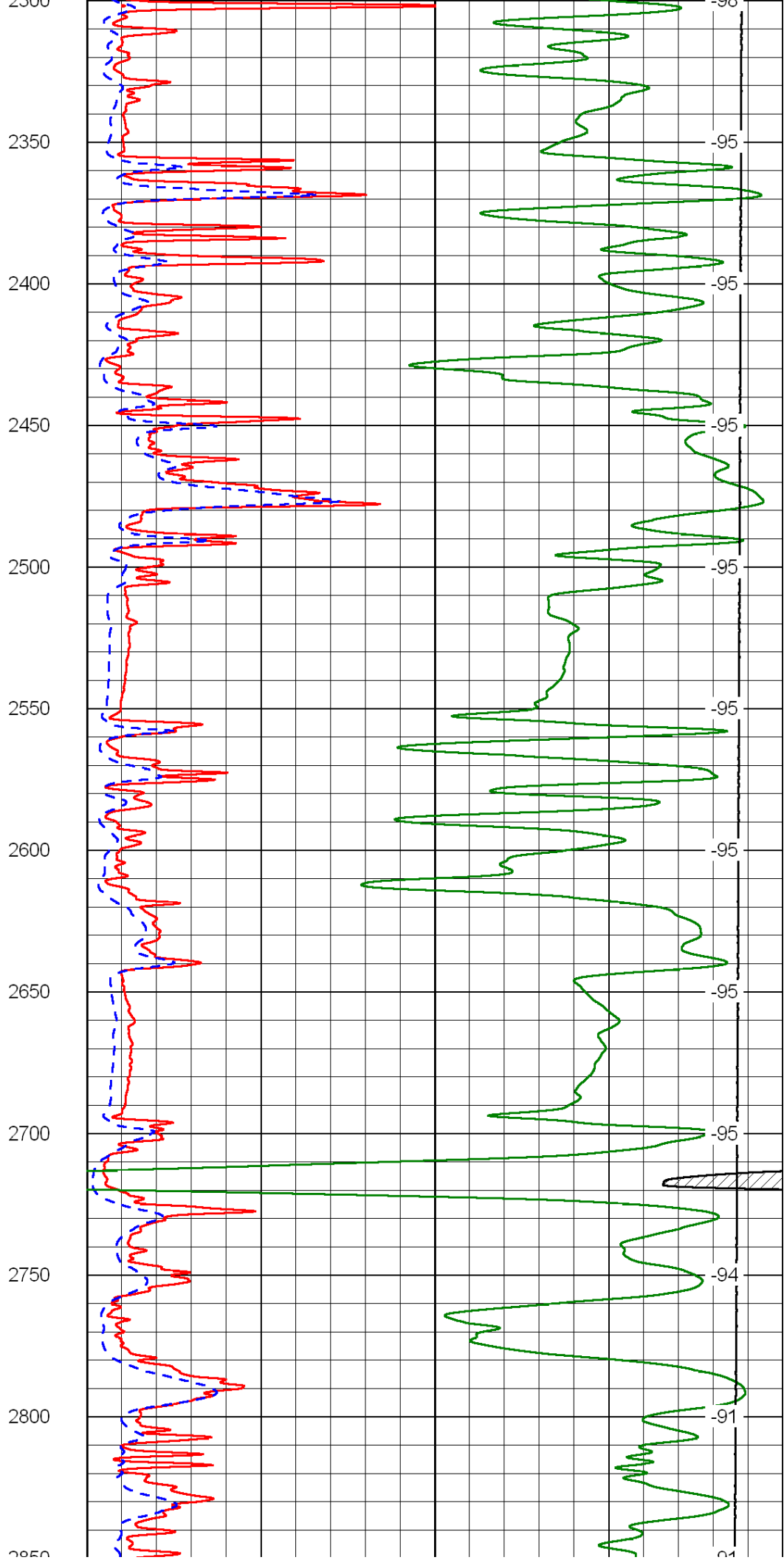
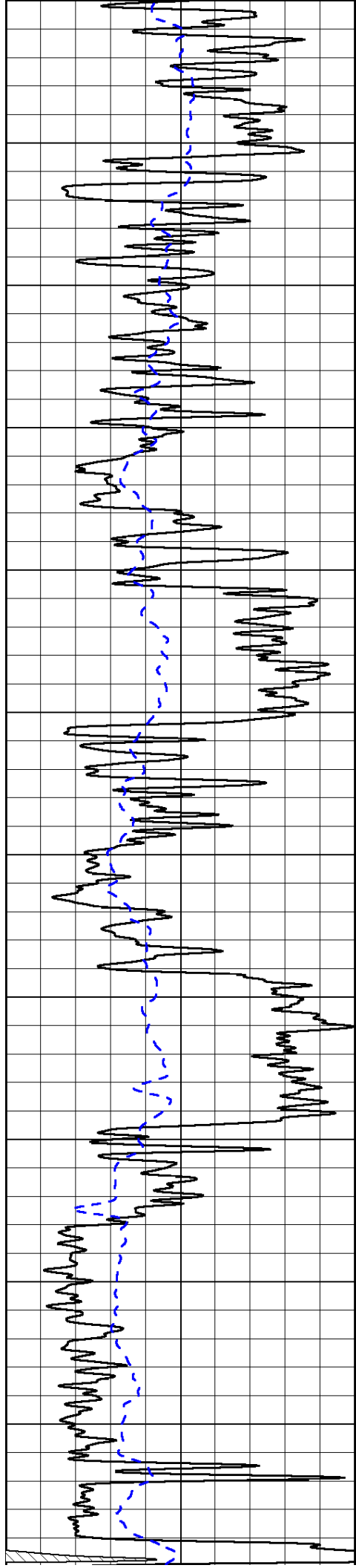
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250
300
350
400
450
500
550
600
650

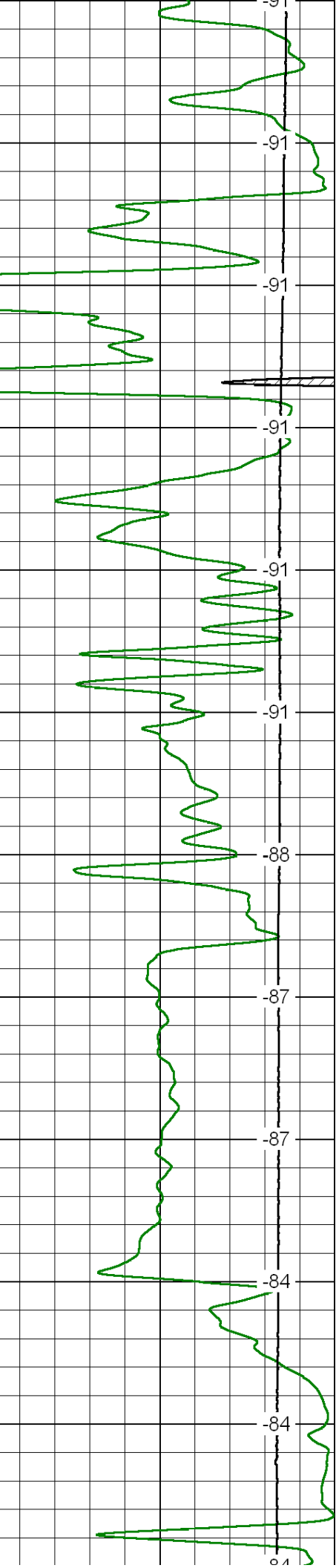
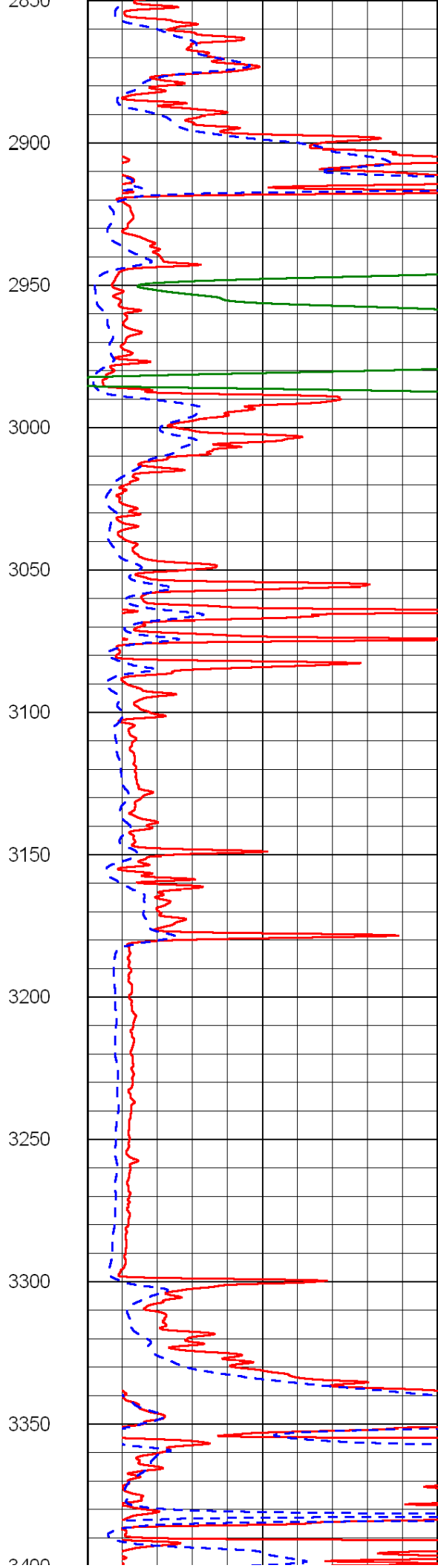
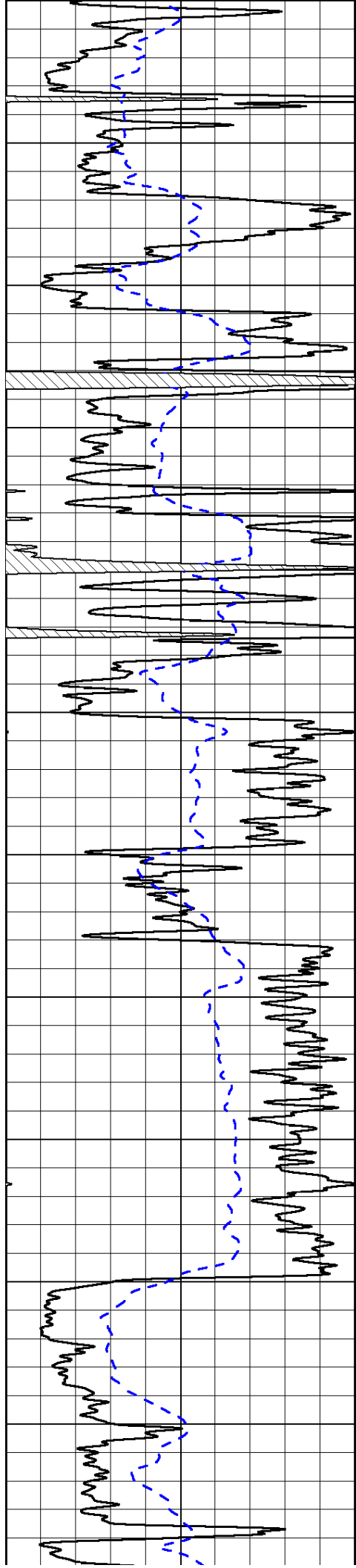
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-104
-104
-104
-101
-101
-101

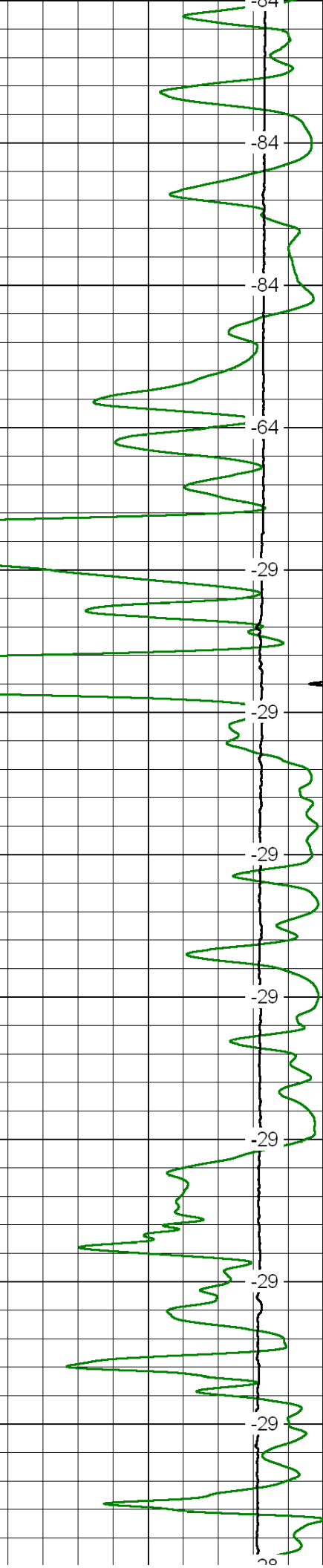
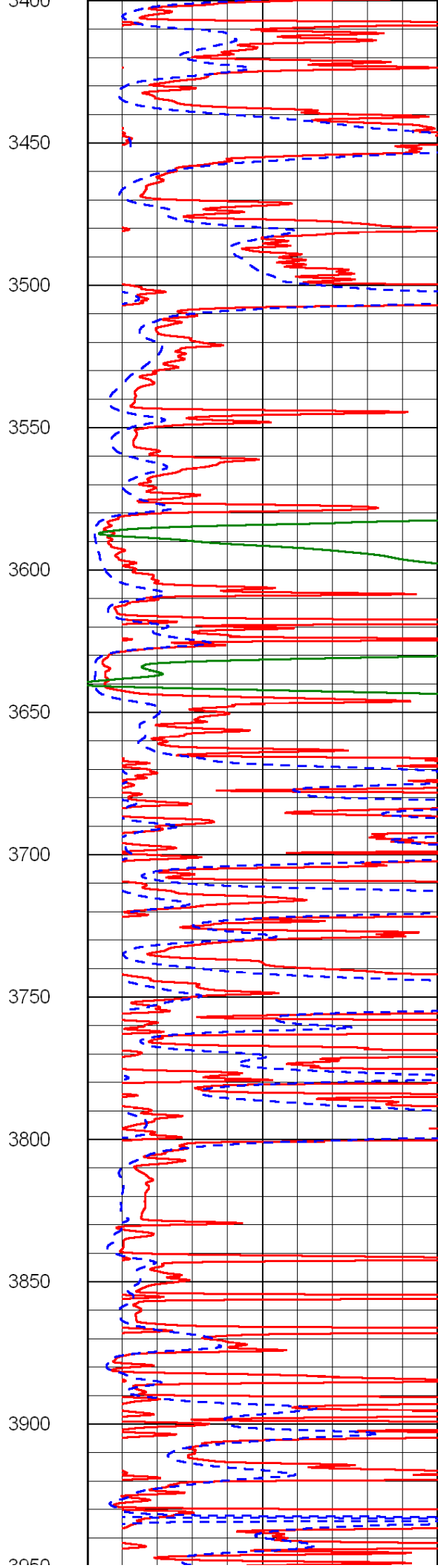
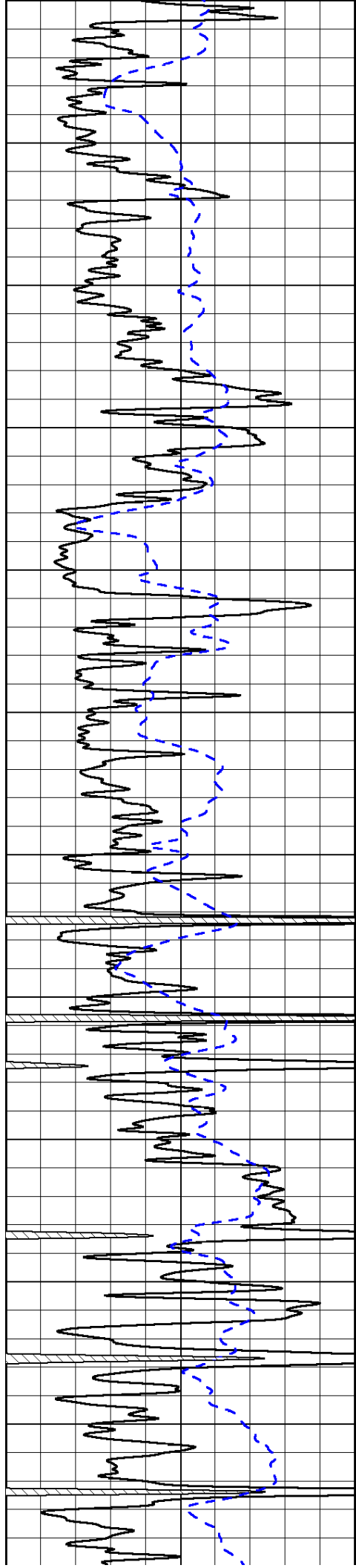


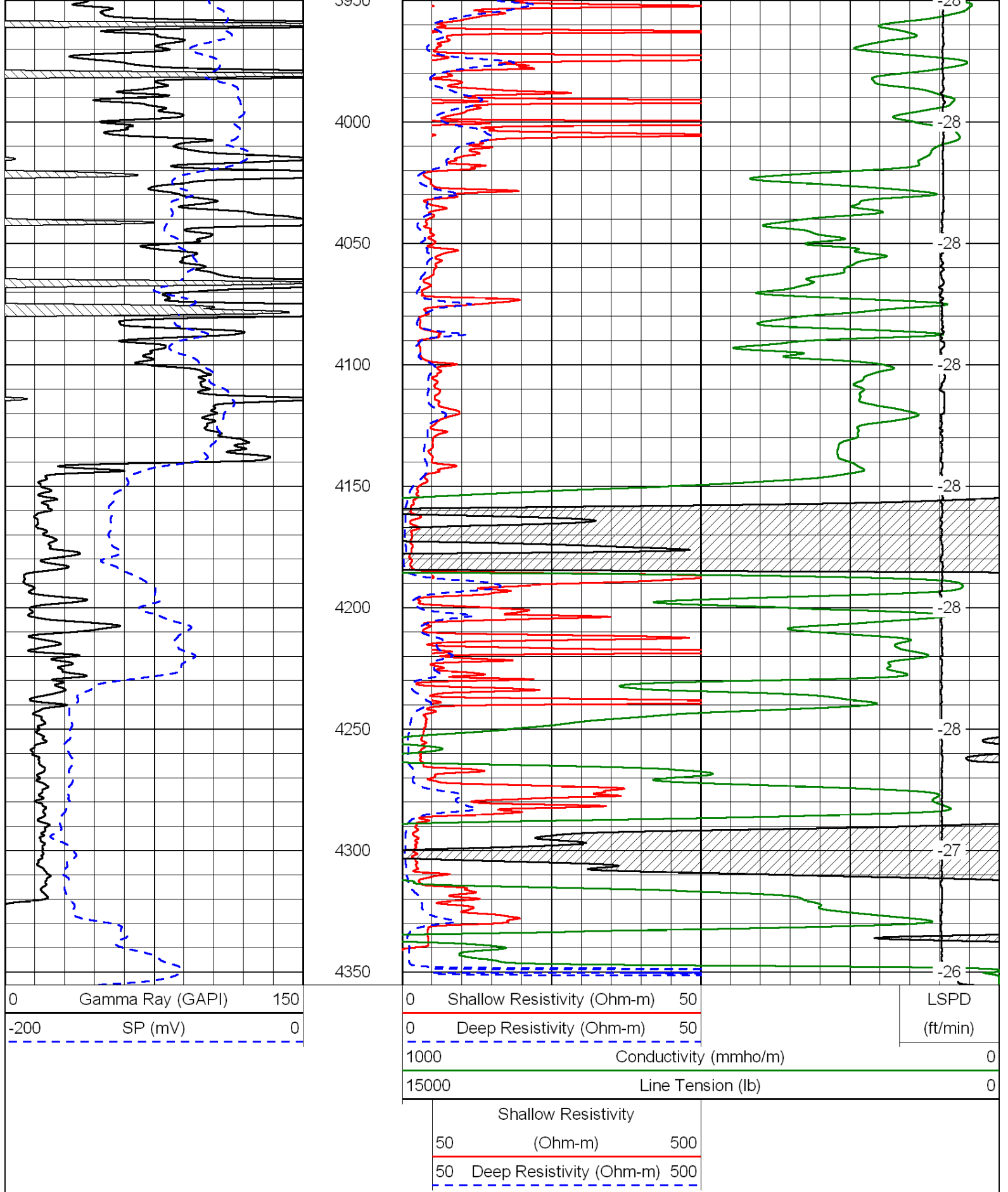






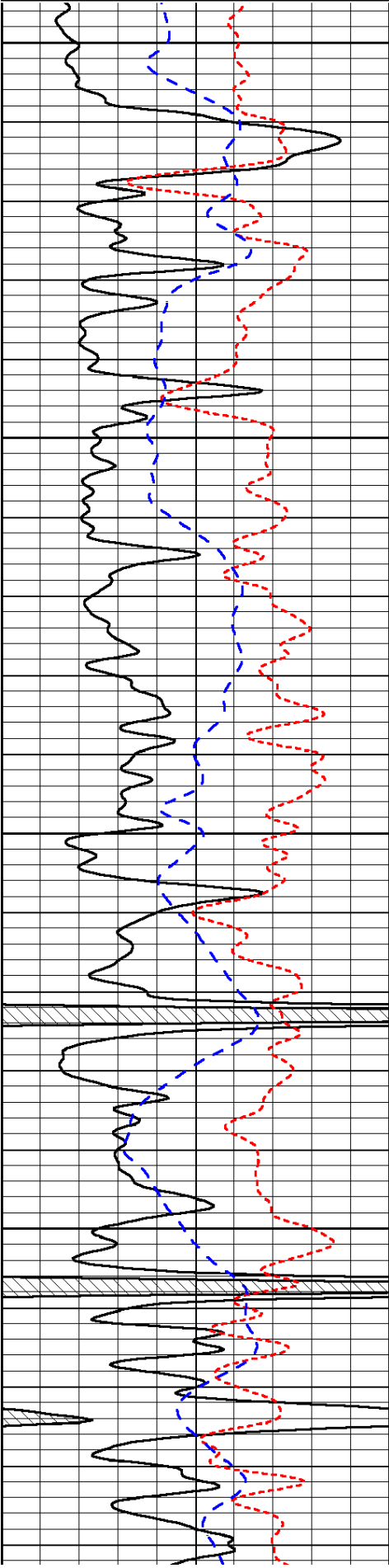




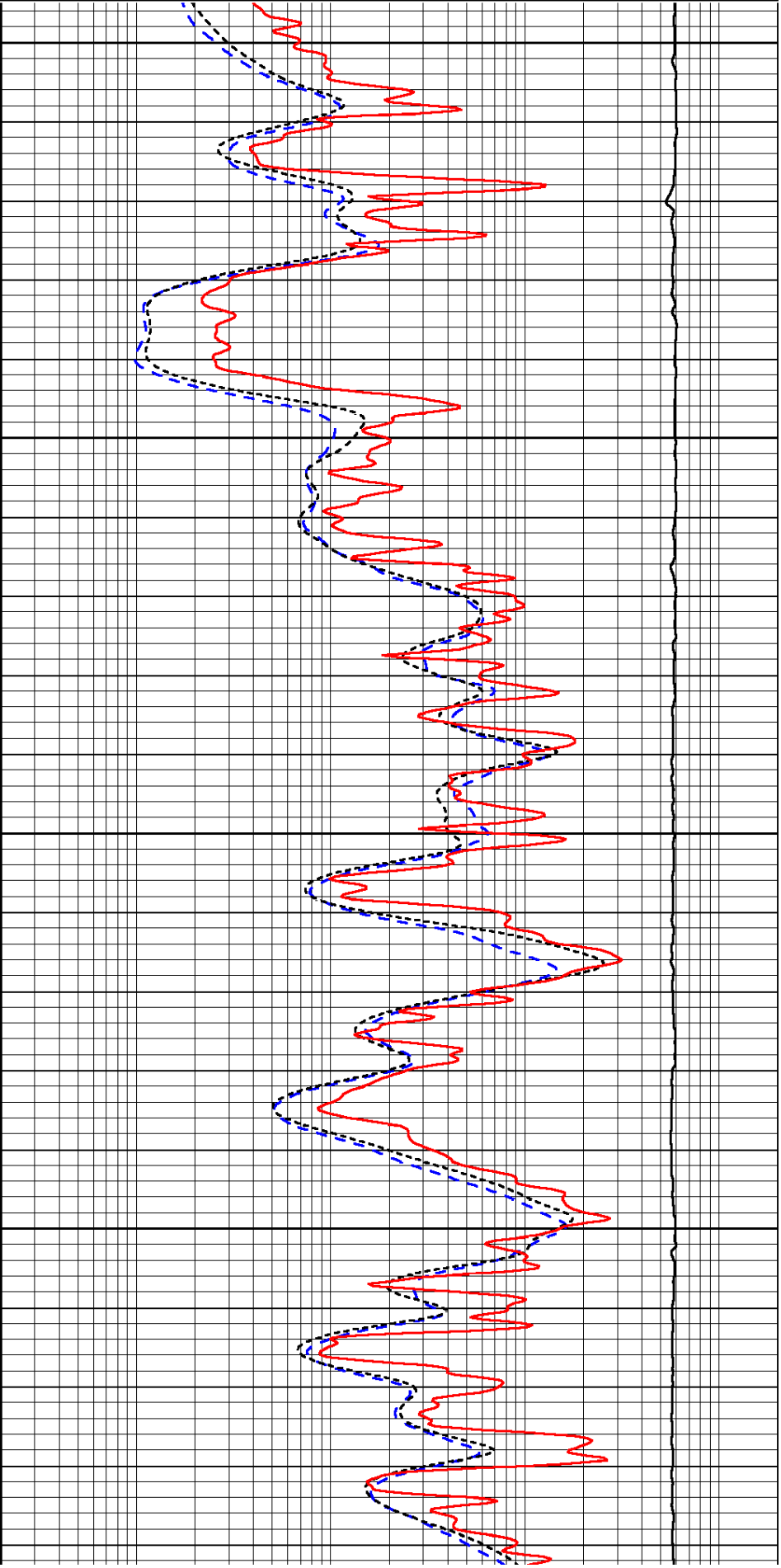


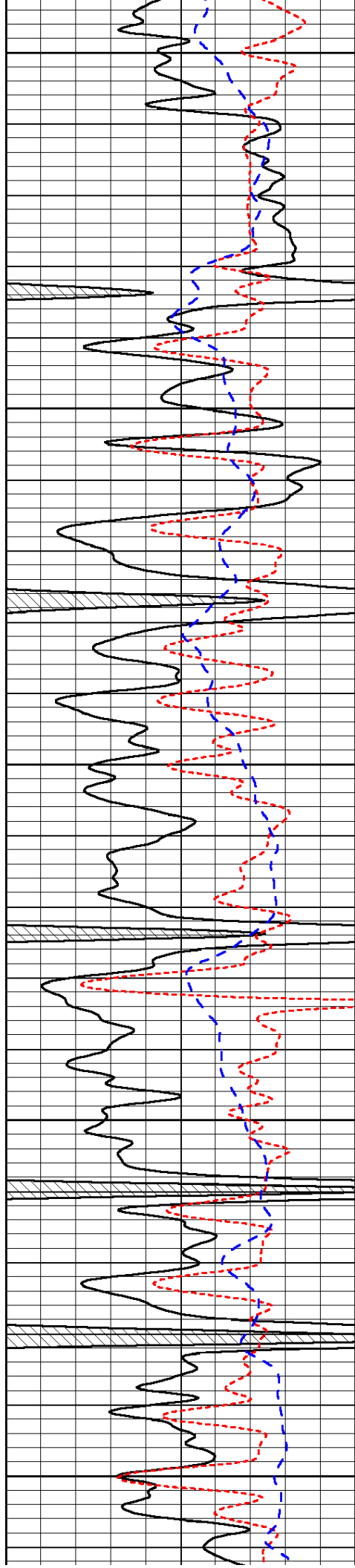
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 Dataset Pathname: stack/pass5.1
 Presentation Format: dil
 Dataset Creation: Thu Apr 12 12:28:48 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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





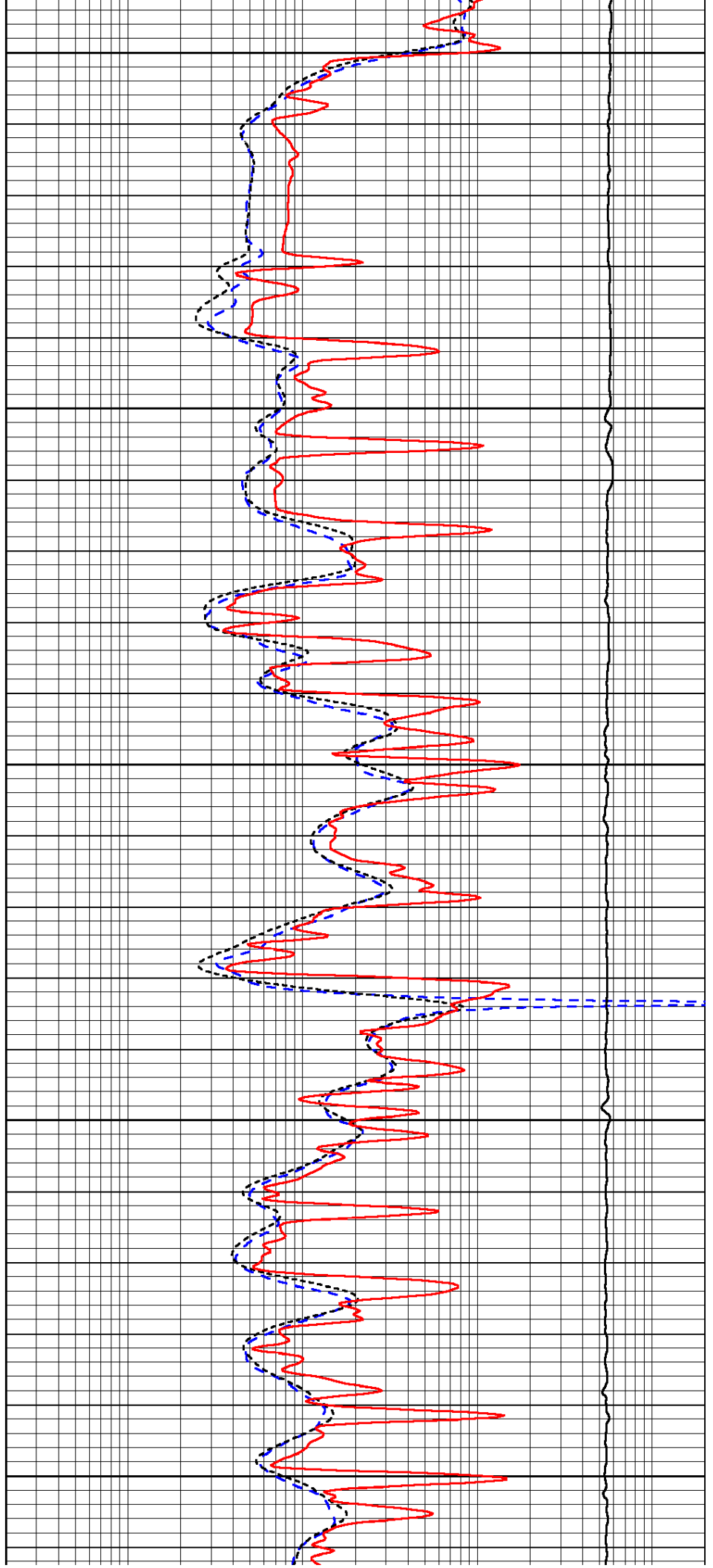
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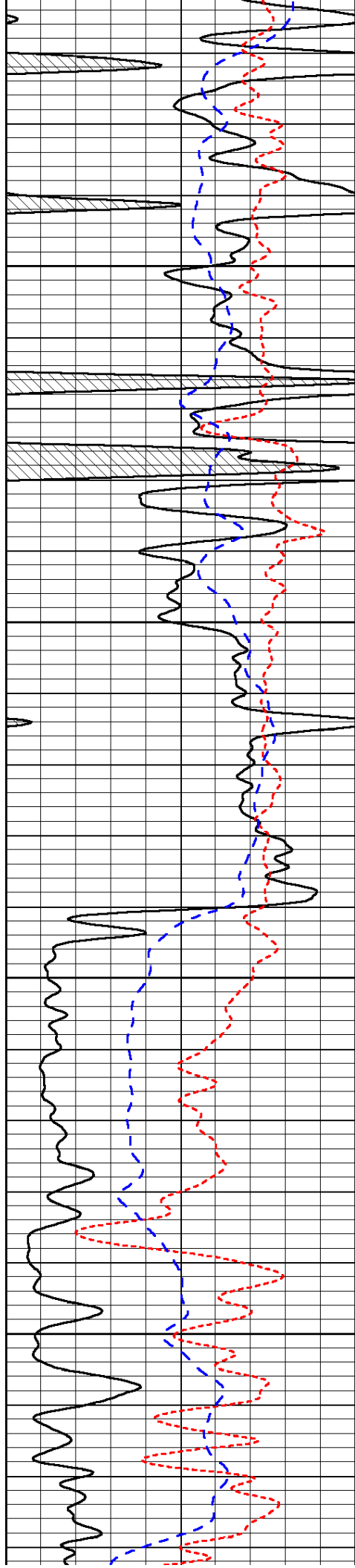
3850

3900

3950

4000



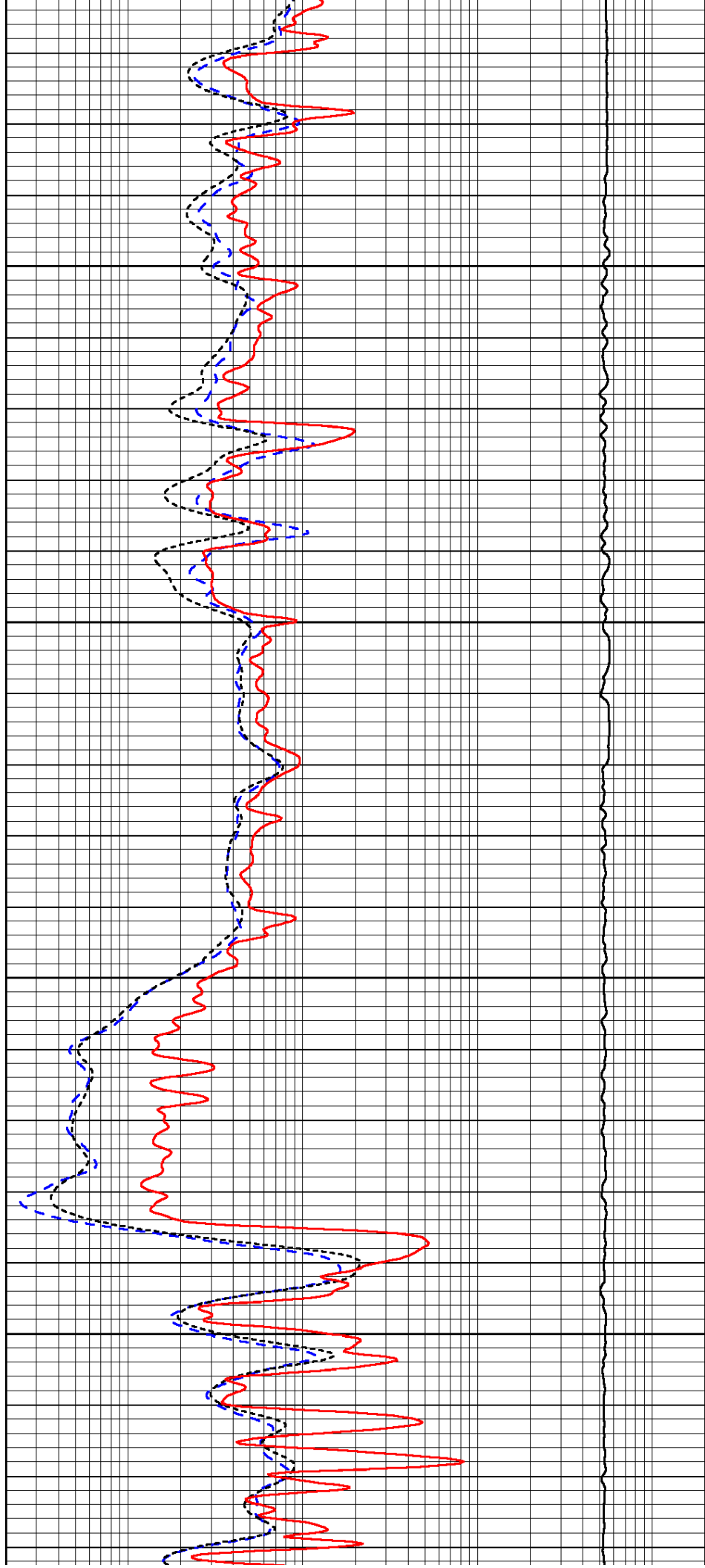


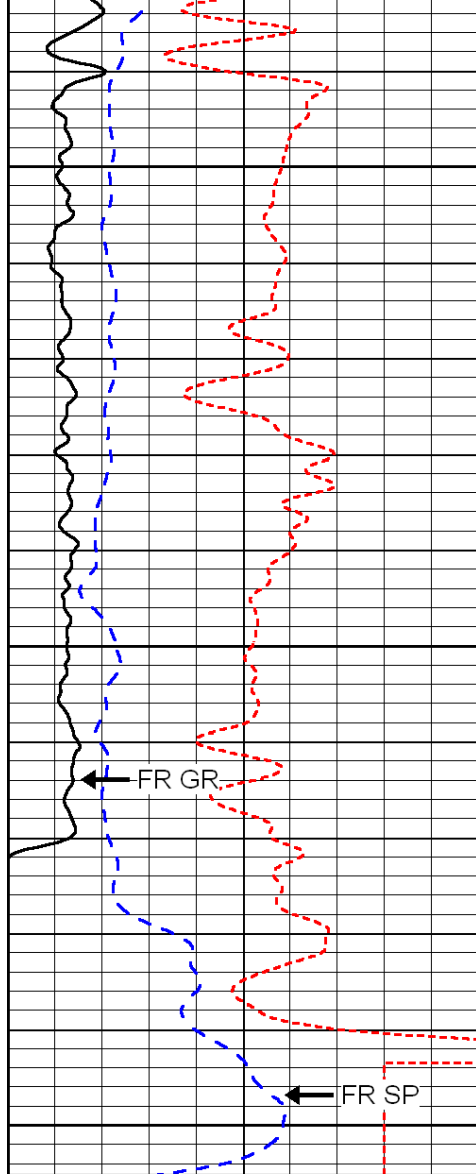
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4100

4150

4200



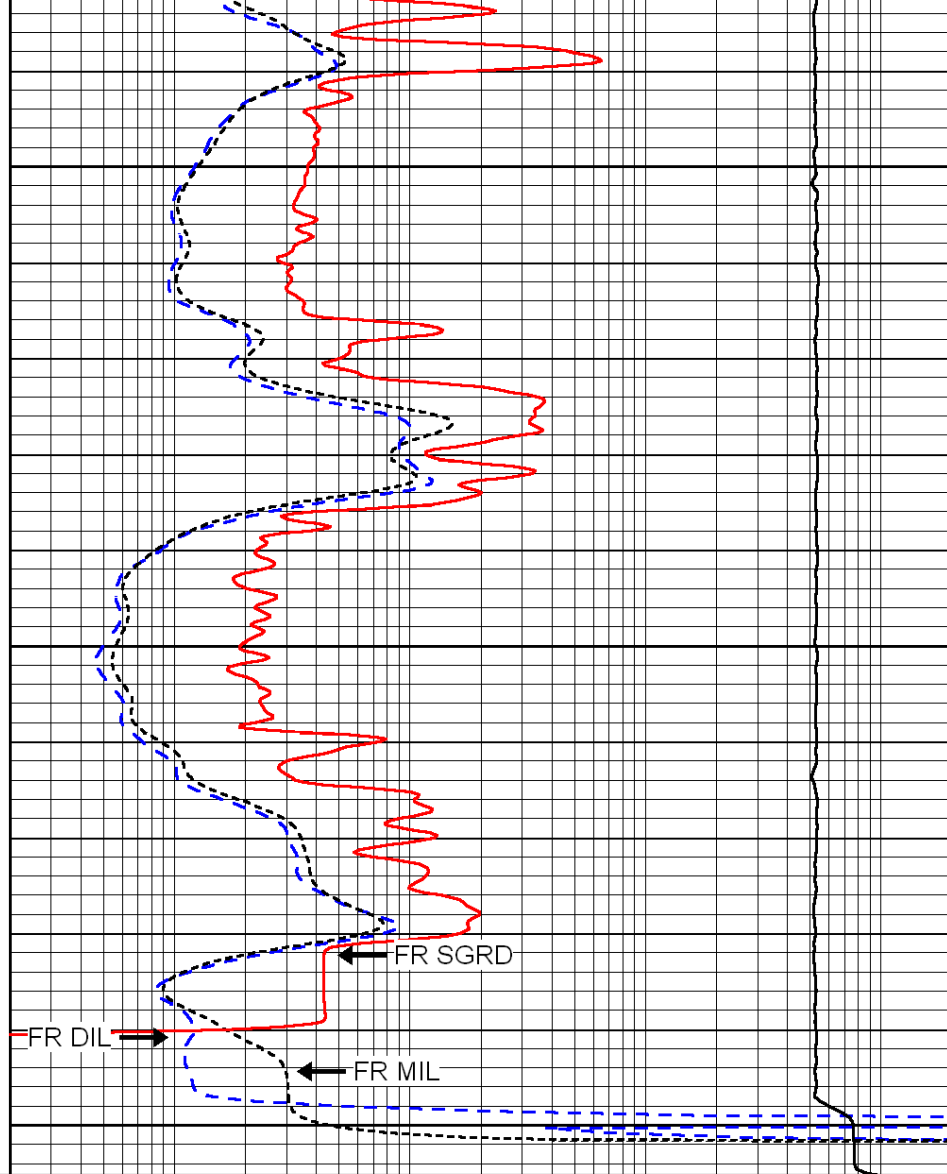


0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4250

4300

4350



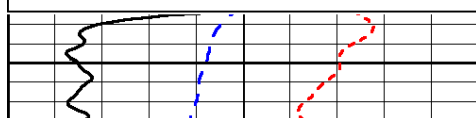
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

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Repeat Section

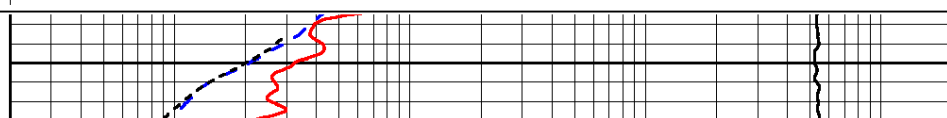
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 Charted by: Depth in Feet scaled 1:240

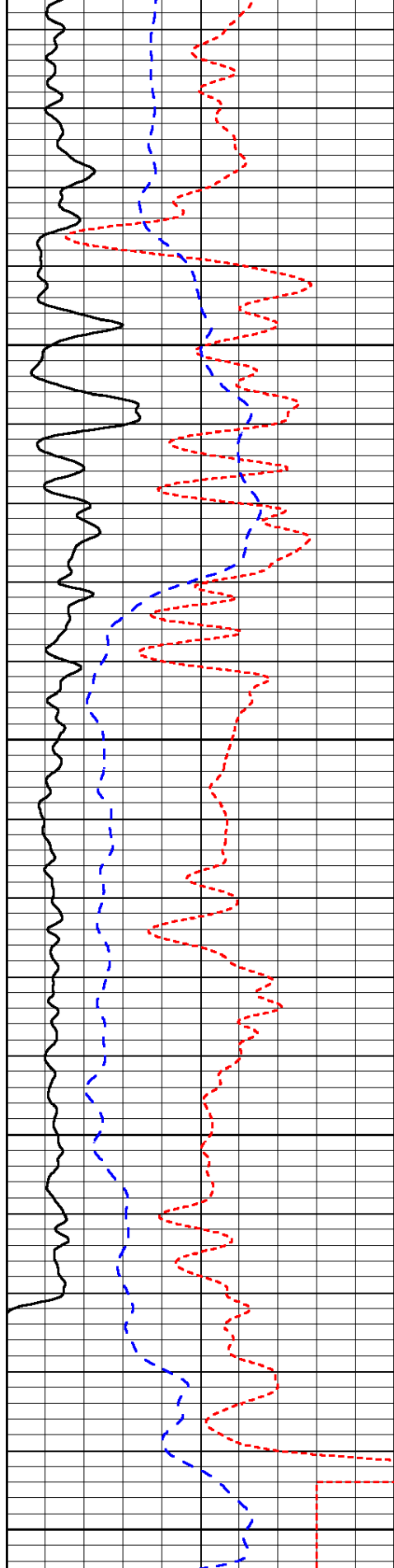
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0



4150

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





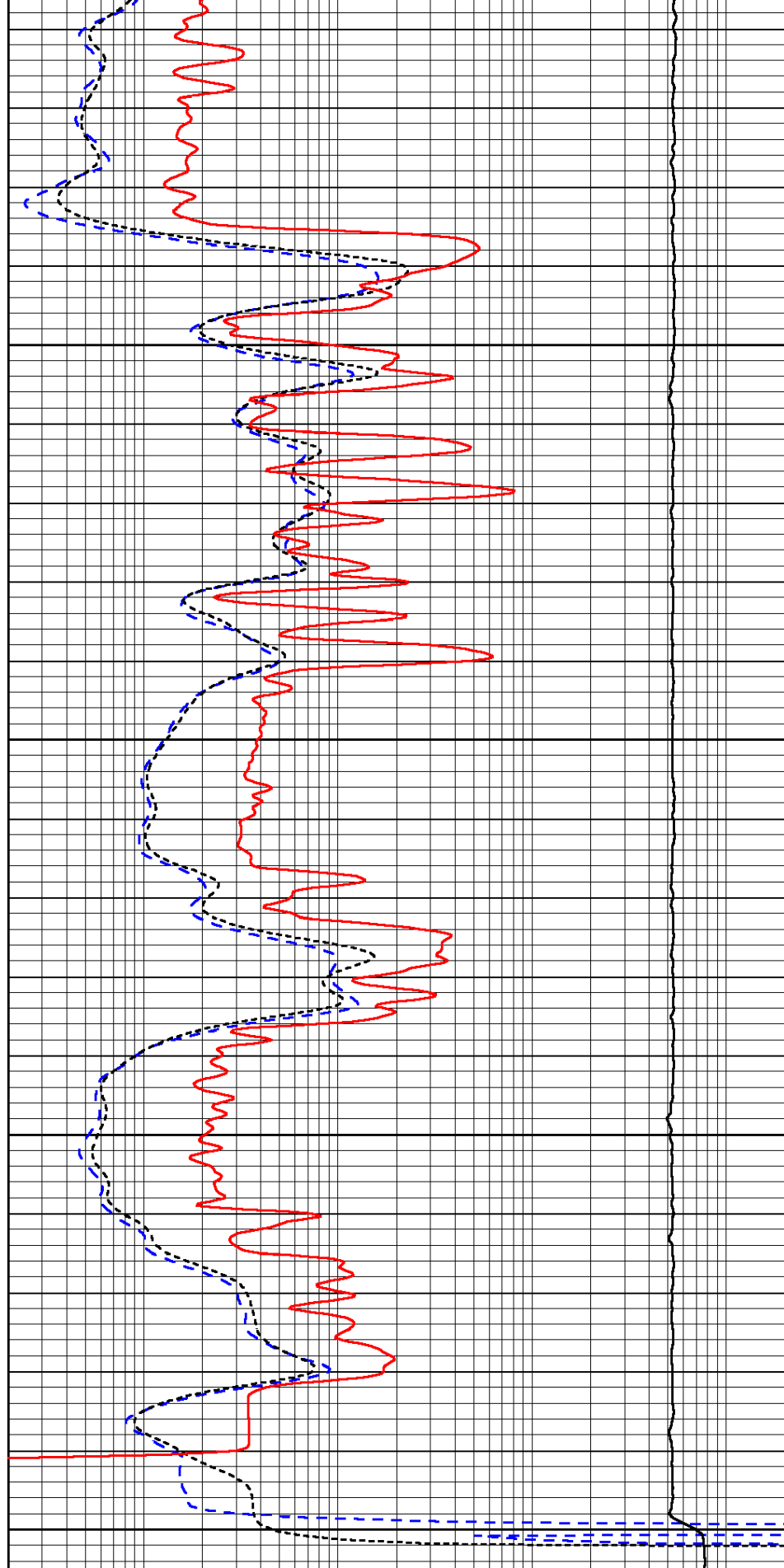
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4200

4250

4300

4350



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

Calibration Report																																									
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Dual Induction Calibration Report																																									
Serial-Model:		1987-M&W																																							
Surface Cal Performed:																																									
<table border="0" style="width: 100%;"> <tr> <td></td> <td colspan="2" style="text-align: center;">Readings</td> <td colspan="3" style="text-align: center;">References</td> <td colspan="2" style="text-align: center;">Results</td> </tr> <tr> <td>Loop:</td> <td style="text-align: center;">Air</td> <td style="text-align: center;">Loop</td> <td style="text-align: center;">Air</td> <td style="text-align: center;">Loop</td> <td></td> <td style="text-align: center;">m</td> <td style="text-align: center;">b</td> </tr> <tr> <td>Deep</td> <td style="text-align: right;">178.615</td> <td style="text-align: right;">710.235</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">255.800</td> <td>mmho/m</td> <td style="text-align: right;">0.540</td> <td style="text-align: right;">-39.500</td> </tr> <tr> <td>Medium</td> <td style="text-align: right;">161.982</td> <td style="text-align: right;">1441.110</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">255.800</td> <td>mmho/m</td> <td style="text-align: right;">0.440</td> <td style="text-align: right;">-111.000</td> </tr> </table>											Readings		References			Results		Loop:	Air	Loop	Air	Loop		m	b	Deep	178.615	710.235	0.000	255.800	mmho/m	0.540	-39.500	Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-111.000
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Serial-Model:		168-108-M&W																																							
Source / Verifier:		/																																							
Master Calibration Performed:		Tue Oct 18 10:32:10 2011																																							
Before Survey Verification Performed:																																									
After Survey Verification Performed:																																									
Master Calibration <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">Density</td> <td></td> <td style="text-align: center;">Far Detector</td> <td style="text-align: center;">Near Detector</td> <td></td> </tr> <tr> <td>Magnesium</td> <td style="text-align: right;">1.755</td> <td>g/cc</td> <td style="text-align: right;">5133.10</td> <td style="text-align: right;">5195.32</td> <td>cps</td> </tr> <tr> <td>Aluminum</td> <td style="text-align: right;">2.680</td> <td>g/cc</td> <td style="text-align: right;">951.78</td> <td style="text-align: right;">3303.39</td> <td>cps</td> </tr> </table> Spine Angle = 74.96 <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">Size</td> <td></td> <td style="text-align: center;">Reading</td> </tr> <tr> <td>Small Ring</td> <td style="text-align: right;">4.00</td> <td>in</td> <td style="text-align: right;">0.96</td> </tr> <tr> <td>Large Ring</td> <td style="text-align: right;">14.00</td> <td>in</td> <td style="text-align: right;">0.27</td> </tr> </table> Density/Spine Ratio = 0.530											Density		Far Detector	Near Detector		Magnesium	1.755	g/cc	5133.10	5195.32	cps	Aluminum	2.680	g/cc	951.78	3303.39	cps		Size		Reading	Small Ring	4.00	in	0.96	Large Ring	14.00	in	0.27		
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Compensated Neutron Calibration Report																																									
Serial Number:		tk10-MW																																							
Tool Model:		M&W																																							
CALIBRATION																																									
Detector		Readings		Target		Normalization																																			
Short Space		6240.00	cps	1000.00	cps	1.6025																																			
Long Space		460.00	cps	1000.00	cps	1.9500																																			
Gamma Ray Calibration Report																																									
Serial Number:		Landy																																							
Tool Model:		LD																																							
Performed:		Wed Aug 24 10:09:01 2011																																							
Calibrator Value:		1.0		GAPI																																					
Background Reading:		0.0		cps																																					
Calibrator Reading:		1.0		cps																																					
Sensitivity:		0.6700		GAPI/cps																																					