

DUAL INDUCTION RESISTIVITY LOG

Company **McGOWAN OIL COMPANY**

Well MONTGOMERY #2-1

Field

Location:

SEC: 1 TWP: 34S RGE: 8E API #: 15-019-27374

Recorded By : D.GRAHAM, J.FISHER

Witnessed By : D.McGOWAN, D.COX, B.COX, A.BROWN

DECEMBER 16, 2013

Run Number ONE

Depth Driller 2350'

Depth Logger 2349'

Bottom Logged Interval 2348'

Top Log Interval 20'

8.625" @ 40'

Casing Logger 8.625" @ 40'

7.875"

Type Fluid in Hole MUD

Density / Viscosity 9.3# / 48

NA / NA	NA / Fluid Loss
NA	NA

Source of Sample	PIT
1. <i>Chlorophyll a</i> (Chl <i>a</i>)	0.0000
2. <i>Chlorophyll b</i> (Chl <i>b</i>)	0.0000
3. <i>Chlorophyll c</i> (Chl <i>c</i>)	0.0000
4. <i>Chlorophyll d</i> (Chl <i>d</i>)	0.0000
5. <i>Chlorophyll e</i> (Chl <i>e</i>)	0.0000
6. <i>Chlorophyll f</i> (Chl <i>f</i>)	0.0000
7. <i>Chlorophyll g</i> (Chl <i>g</i>)	0.0000
8. <i>Chlorophyll h</i> (Chl <i>h</i>)	0.0000
9. <i>Chlorophyll i</i> (Chl <i>i</i>)	0.0000
10. <i>Chlorophyll j</i> (Chl <i>j</i>)	0.0000
11. <i>Chlorophyll k</i> (Chl <i>k</i>)	0.0000
12. <i>Chlorophyll l</i> (Chl <i>l</i>)	0.0000
13. <i>Chlorophyll m</i> (Chl <i>m</i>)	0.0000
14. <i>Chlorophyll n</i> (Chl <i>n</i>)	0.0000
15. <i>Chlorophyll o</i> (Chl <i>o</i>)	0.0000
16. <i>Chlorophyll p</i> (Chl <i>p</i>)	0.0000
17. <i>Chlorophyll q</i> (Chl <i>q</i>)	0.0000
18. <i>Chlorophyll r</i> (Chl <i>r</i>)	0.0000
19. <i>Chlorophyll s</i> (Chl <i>s</i>)	0.0000
20. <i>Chlorophyll t</i> (Chl <i>t</i>)	0.0000
21. <i>Chlorophyll u</i> (Chl <i>u</i>)	0.0000
22. <i>Chlorophyll v</i> (Chl <i>v</i>)	0.0000
23. <i>Chlorophyll w</i> (Chl <i>w</i>)	0.0000
24. <i>Chlorophyll x</i> (Chl <i>x</i>)	0.0000
25. <i>Chlorophyll y</i> (Chl <i>y</i>)	0.0000
26. <i>Chlorophyll z</i> (Chl <i>z</i>)	0.0000
27. <i>Chlorophyll aa</i> (Chl <i>aa</i>)	0.0000
28. <i>Chlorophyll ab</i> (Chl <i>ab</i>)	0.0000
29. <i>Chlorophyll ac</i> (Chl <i>ac</i>)	0.0000
30. <i>Chlorophyll ad</i> (Chl <i>ad</i>)	0.0000
31. <i>Chlorophyll ae</i> (Chl <i>ae</i>)	0.0000
32. <i>Chlorophyll af</i> (Chl <i>af</i>)	0.0000
33. <i>Chlorophyll ag</i> (Chl <i>ag</i>)	0.0000
34. <i>Chlorophyll ah</i> (Chl <i>ah</i>)	0.0000
35. <i>Chlorophyll ai</i> (Chl <i>ai</i>)	0.0000
36. <i>Chlorophyll aj</i> (Chl <i>aj</i>)	0.0000
37. <i>Chlorophyll ak</i> (Chl <i>ak</i>)	0.0000
38. <i>Chlorophyll al</i> (Chl <i>al</i>)	0.0000
39. <i>Chlorophyll am</i> (Chl <i>am</i>)	0.0000
40. <i>Chlorophyll an</i> (Chl <i>an</i>)	0.0000
41. <i>Chlorophyll ao</i> (Chl <i>ao</i>)	0.0000
42. <i>Chlorophyll ap</i> (Chl <i>ap</i>)	0.0000
43. <i>Chlorophyll aq</i> (Chl <i>aq</i>)	0.0000
44. <i>Chlorophyll ar</i> (Chl <i>ar</i>)	0.0000
45. <i>Chlorophyll as</i> (Chl <i>as</i>)	0.0000
46. <i>Chlorophyll at</i> (Chl <i>at</i>)	0.0000
47. <i>Chlorophyll au</i> (Chl <i>au</i>)	0.0000
48. <i>Chlorophyll av</i> (Chl <i>av</i>)	0.0000
49. <i>Chlorophyll aw</i> (Chl <i>aw</i>)	0.0000
50. <i>Chlorophyll ax</i> (Chl <i>ax</i>)	0.0000
51. <i>Chlorophyll ay</i> (Chl <i>ay</i>)	0.0000
52. <i>Chlorophyll az</i> (Chl <i>az</i>)	0.0000
53. <i>Chlorophyll ba</i> (Chl <i>ba</i>)	0.0000
54. <i>Chlorophyll bb</i> (Chl <i>bb</i>)	0.0000
55. <i>Chlorophyll bc</i> (Chl <i>bc</i>)	0.0000
56. <i>Chlorophyll bd</i> (Chl <i>bd</i>)	0.0000
57. <i>Chlorophyll be</i> (Chl <i>be</i>)	0.0000
58. <i>Chlorophyll bf</i> (Chl <i>bf</i>)	0.0000
59. <i>Chlorophyll bg</i> (Chl <i>bg</i>)	0.0000
60. <i>Chlorophyll bh</i> (Chl <i>bh</i>)	0.0000
61. <i>Chlorophyll bi</i> (Chl <i>bi</i>)	0.0000
62. <i>Chlorophyll bj</i> (Chl <i>bj</i>)	0.0000
63. <i>Chlorophyll bk</i> (Chl <i>bk</i>)	0.0000
64. <i>Chlorophyll bl</i> (Chl <i>bl</i>)	0.0000
65. <i>Chlorophyll bm</i> (Chl <i>bm</i>)	0.0000
66. <i>Chlorophyll bn</i> (Chl <i>bn</i>)	0.0000
67. <i>Chlorophyll bo</i> (Chl <i>bo</i>)	0.0000
68. <i>Chlorophyll bp</i> (Chl <i>bp</i>)	0.0000
69. <i>Chlorophyll bq</i> (Chl <i>bq</i>)	0.0000
70. <i>Chlorophyll br</i> (Chl <i>br</i>)	0.0000
71. <i>Chlorophyll bs</i> (Chl <i>bs</i>)	0.0000
72. <i>Chlorophyll bt</i> (Chl <i>bt</i>)	0.0000
73. <i>Chlorophyll bu</i> (Chl <i>bu</i>)	0.0000
74. <i>Chlorophyll bv</i> (Chl <i>bv</i>)	0.0000
75. <i>Chlorophyll bw</i> (Chl <i>bw</i>)	0.0000
76. <i>Chlorophyll bx</i> (Chl <i>bx</i>)	0.0000
77. <i>Chlorophyll by</i> (Chl <i>by</i>)	0.0000
78. <i>Chlorophyll bz</i> (Chl <i>bz</i>)	0.0000
79. <i>Chlorophyll ca</i> (Chl <i>ca</i>)	0.0000
80. <i>Chlorophyll cb</i> (Chl <i>cb</i>)	0.0000
81. <i>Chlorophyll cc</i> (Chl <i>cc</i>)	0.0000
82. <i>Chlorophyll cd</i> (Chl <i>cd</i>)	0.0000
83. <i>Chlorophyll ce</i> (Chl <i>ce</i>)	0.0000
84. <i>Chlorophyll cf</</i>	

3km @ Meas. Temp 5.0 / 56deg.

3kmf @ Meas. Temp 4.0 / 56deg.

3mc @ Meas. Temp 6.0 / 56deg.

Source of Rmf / Rmc CHARTS

2.8 / 100deg.

Equipment Number 47

Location

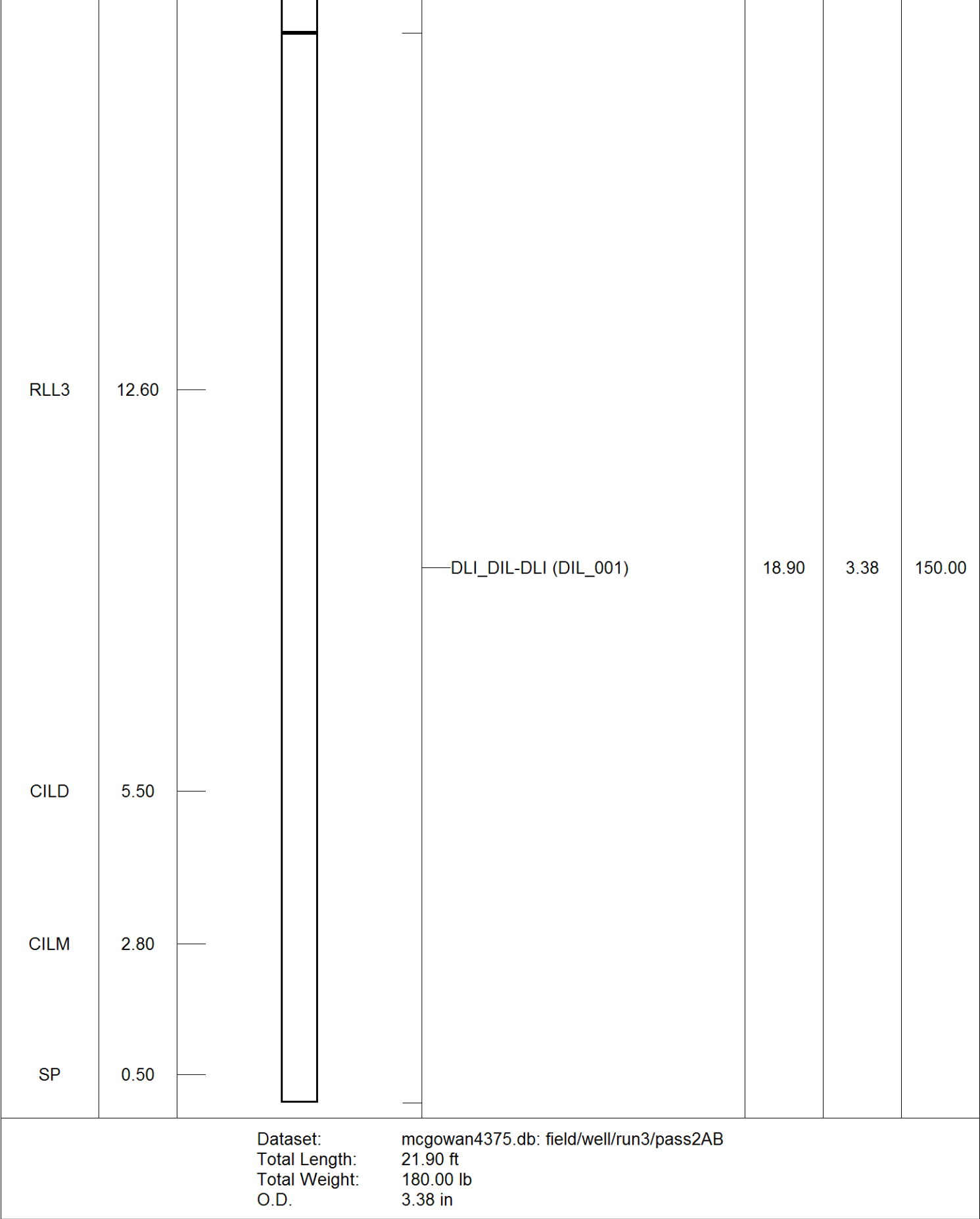
<<< Fold Here >>>

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

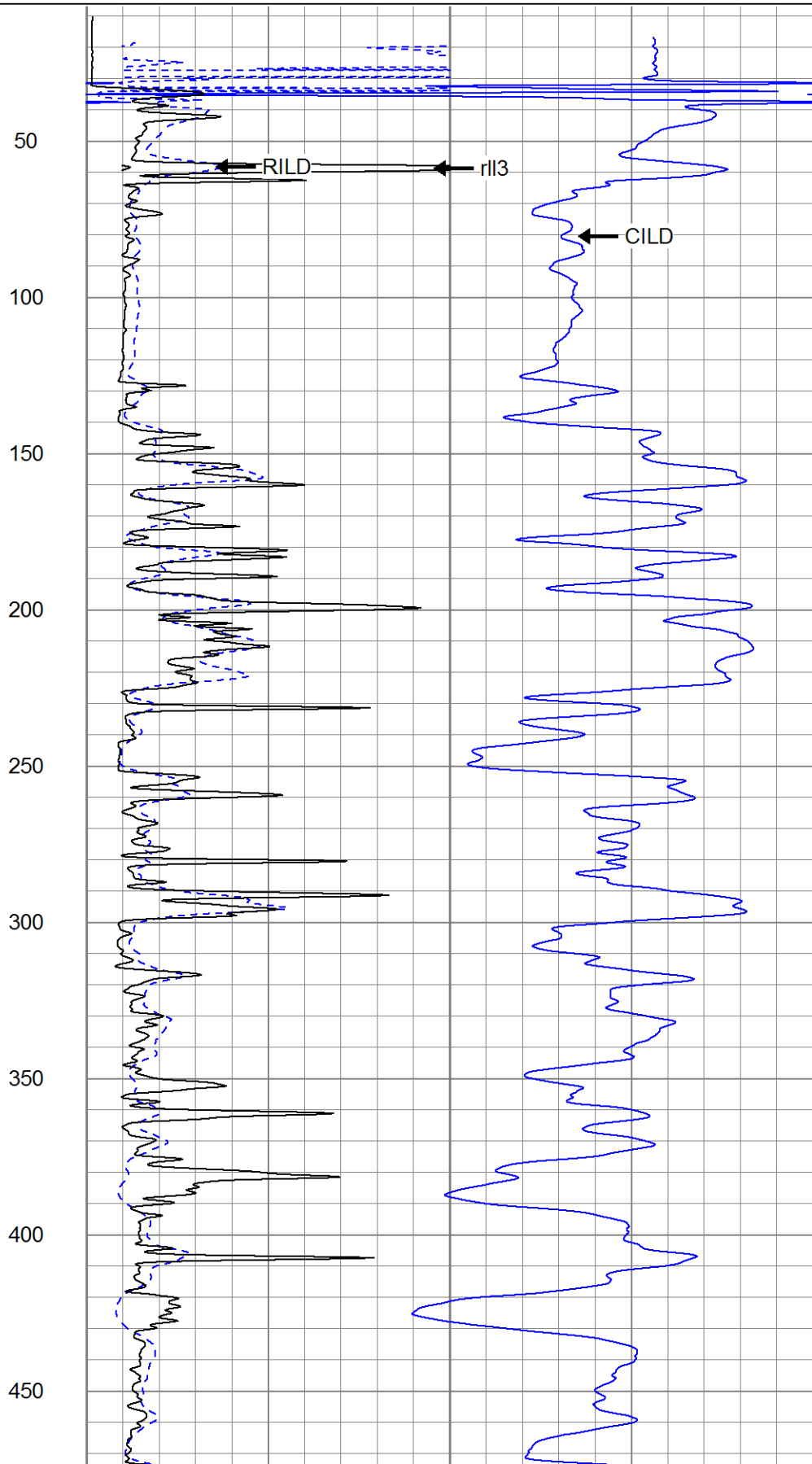
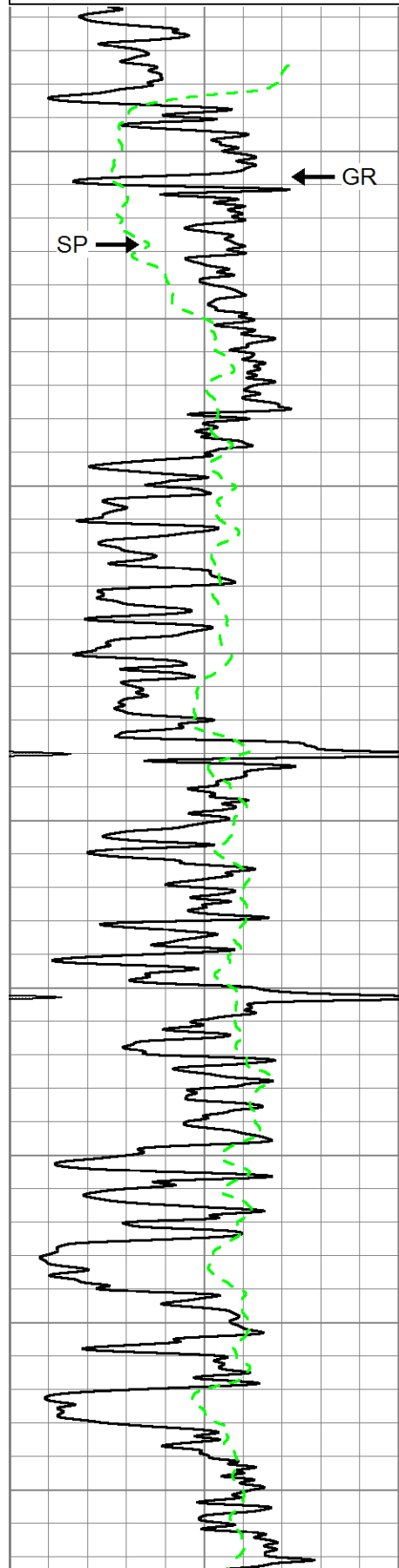
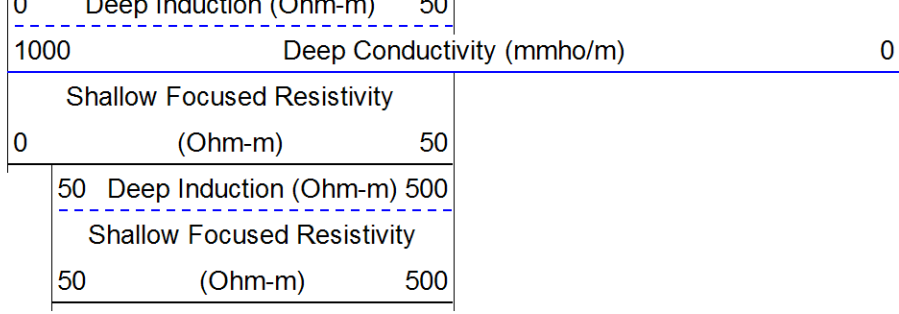
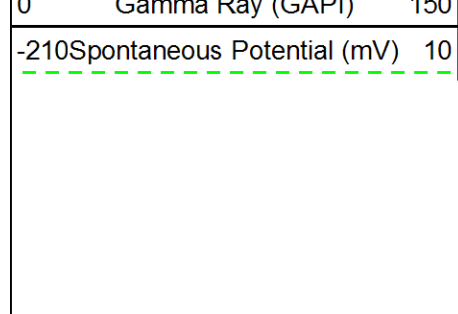
BOREHOLE AND ANNULAR VOLUME MARKS PRESENTED ON DENSITY PLOT.
ANNULAR VOLUME CALCULATED FOR 5.500" CASING.
THANK YOU FOR USING FWS, INC. HOMINY, OKLAHOMA. 918 885 6564

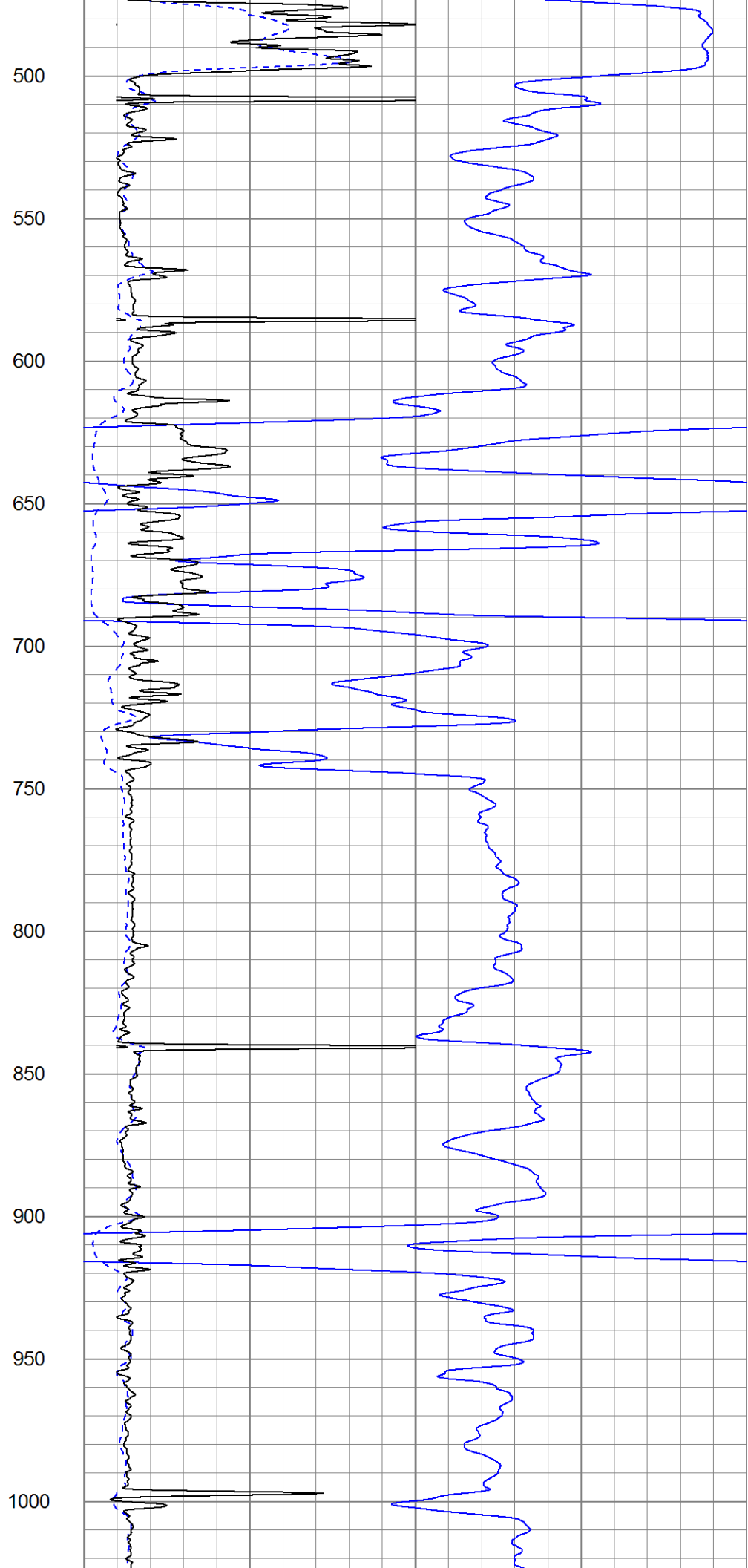
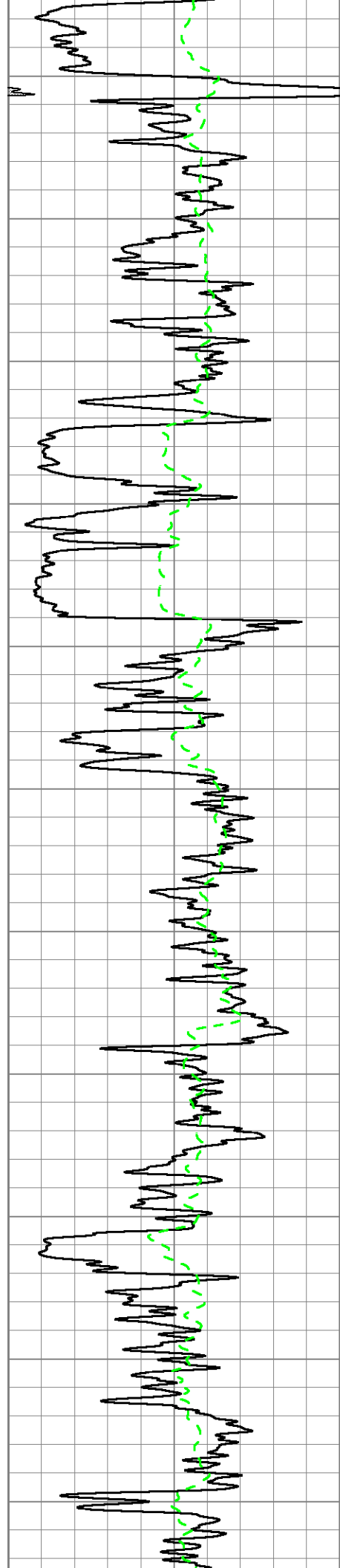
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	20.40		DLI_GR-DLI (GR_001)	3.00	3.38	30.00



Database File:	mcgowan4375.db
Dataset Pathname:	run3/pass2AB
Presentation Format:	siln_2
Dataset Creation:	Mon Dec 16 06:27:51 2013
Charted by:	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	Deep Induction (Ohm-m)	50
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1050

1100

1150

1200

1250

1300

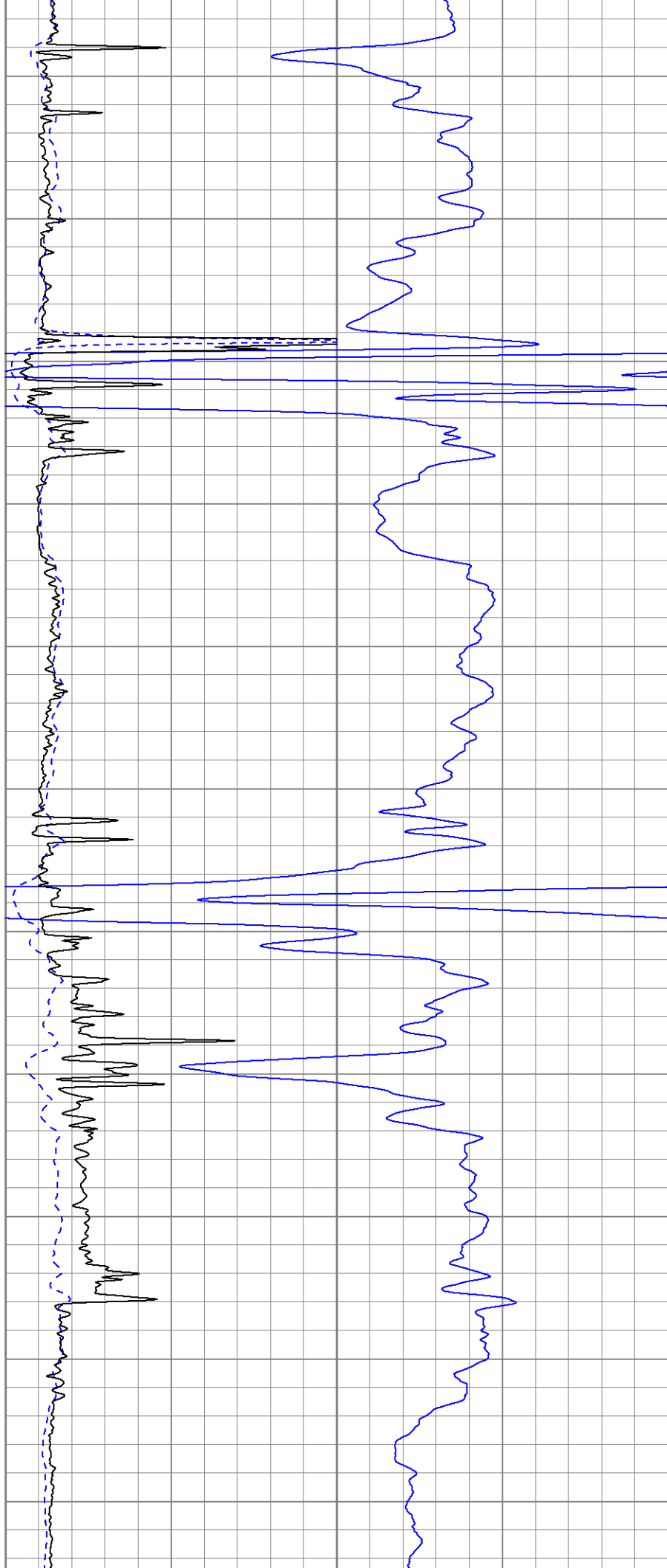
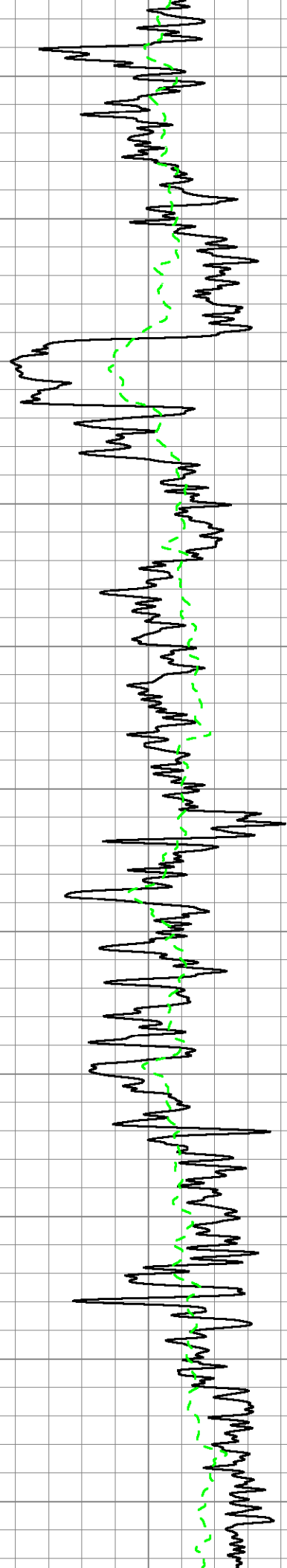
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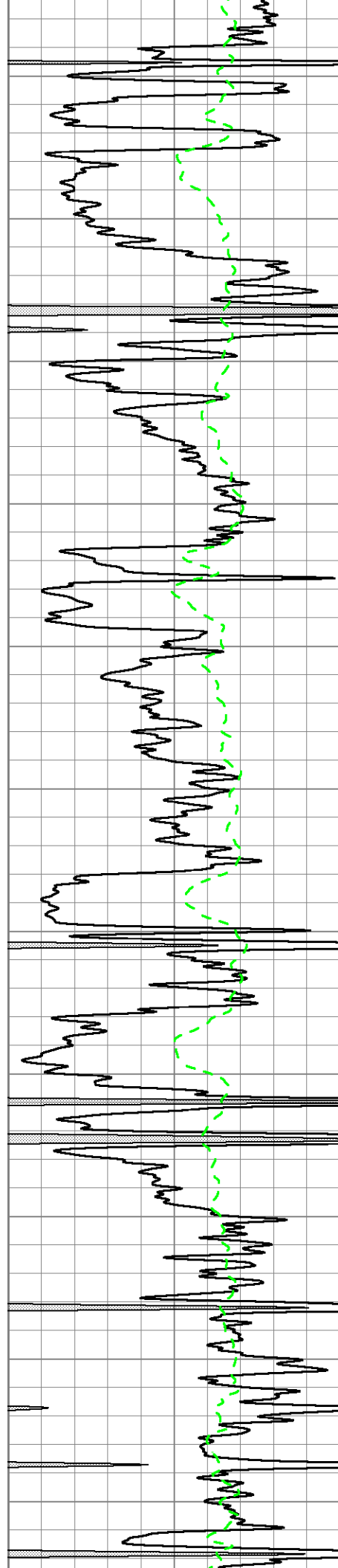
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1450

1500

1550





1600

1650

1700

1750

1800

1850

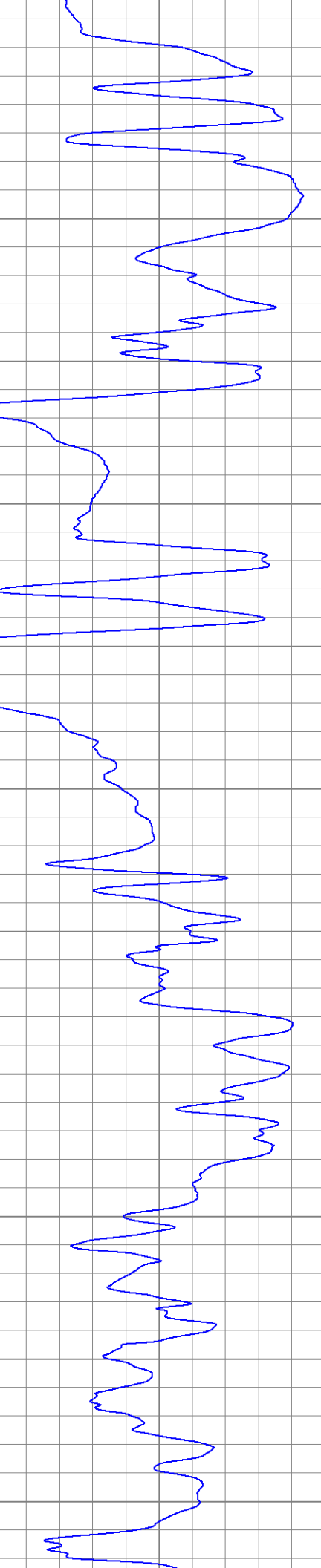
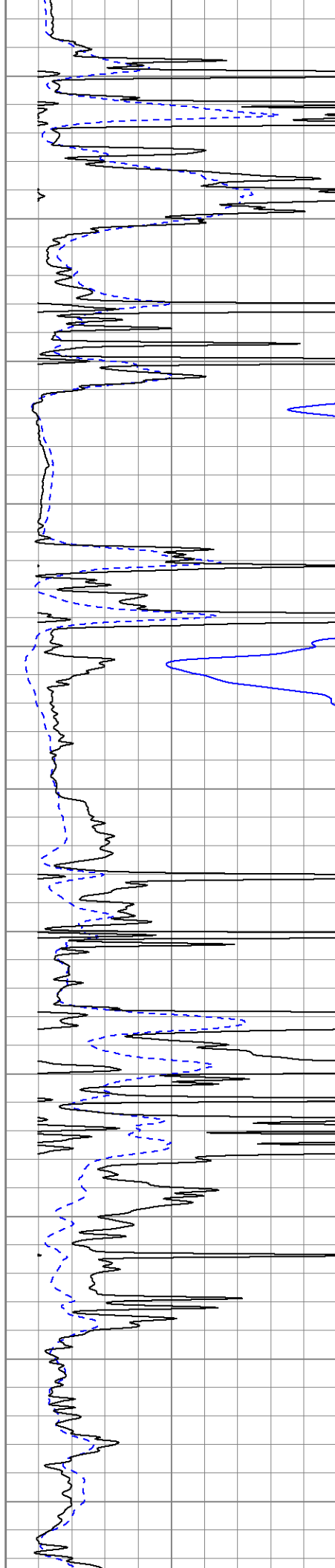
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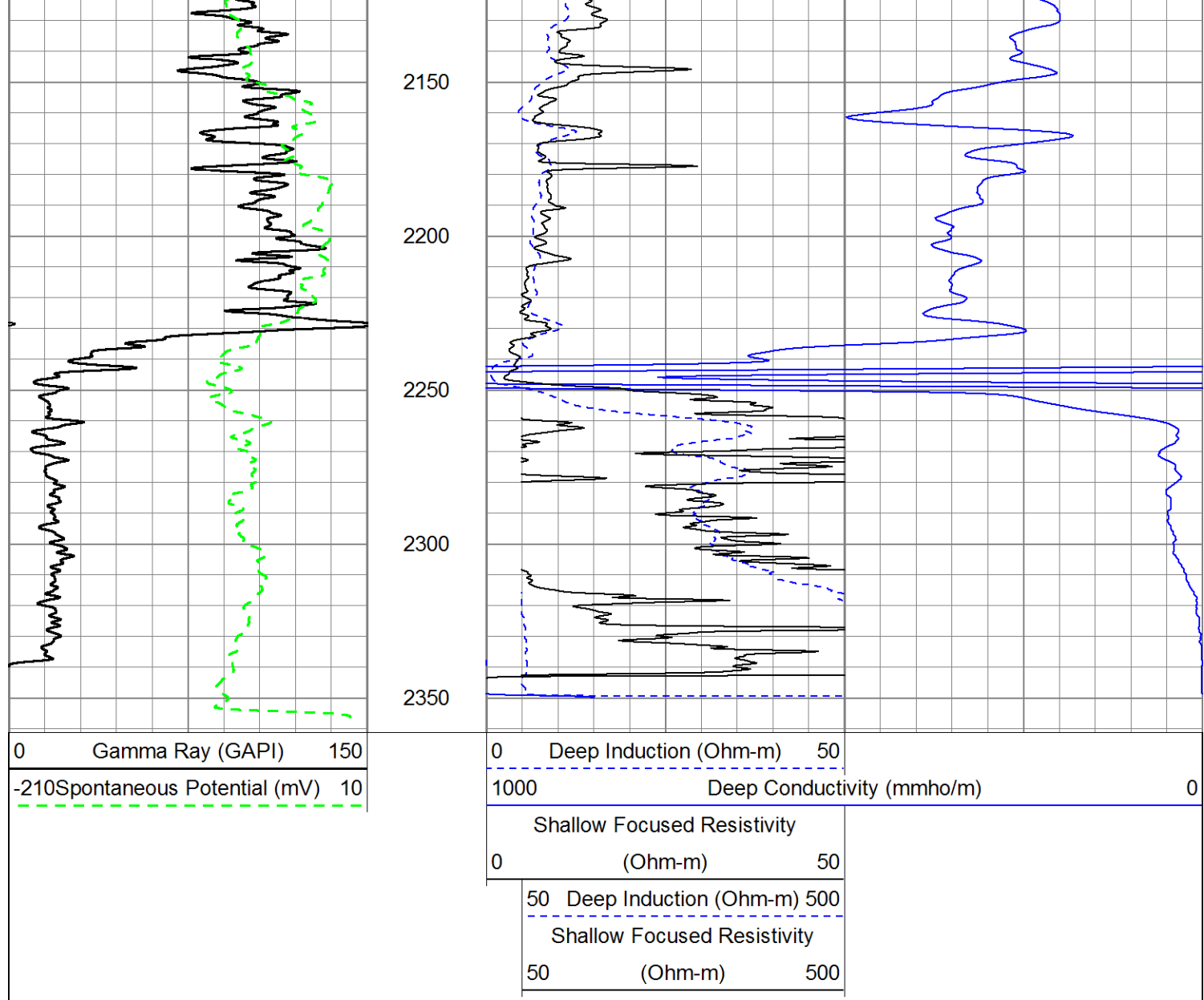
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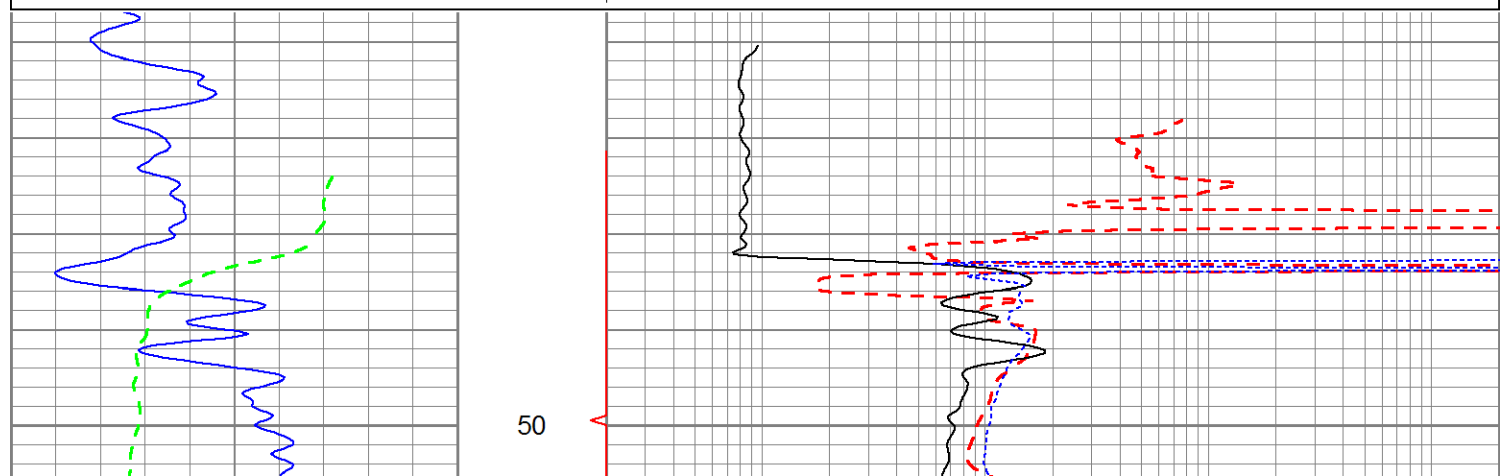
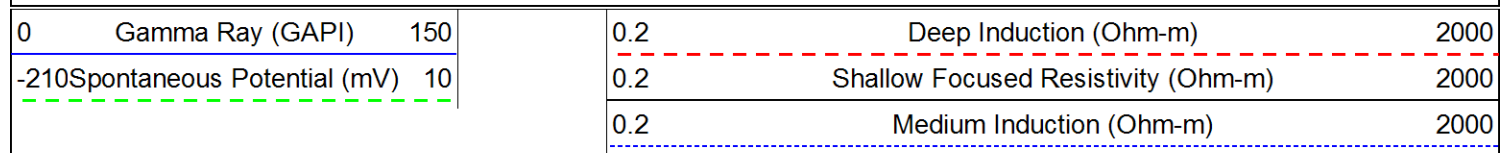
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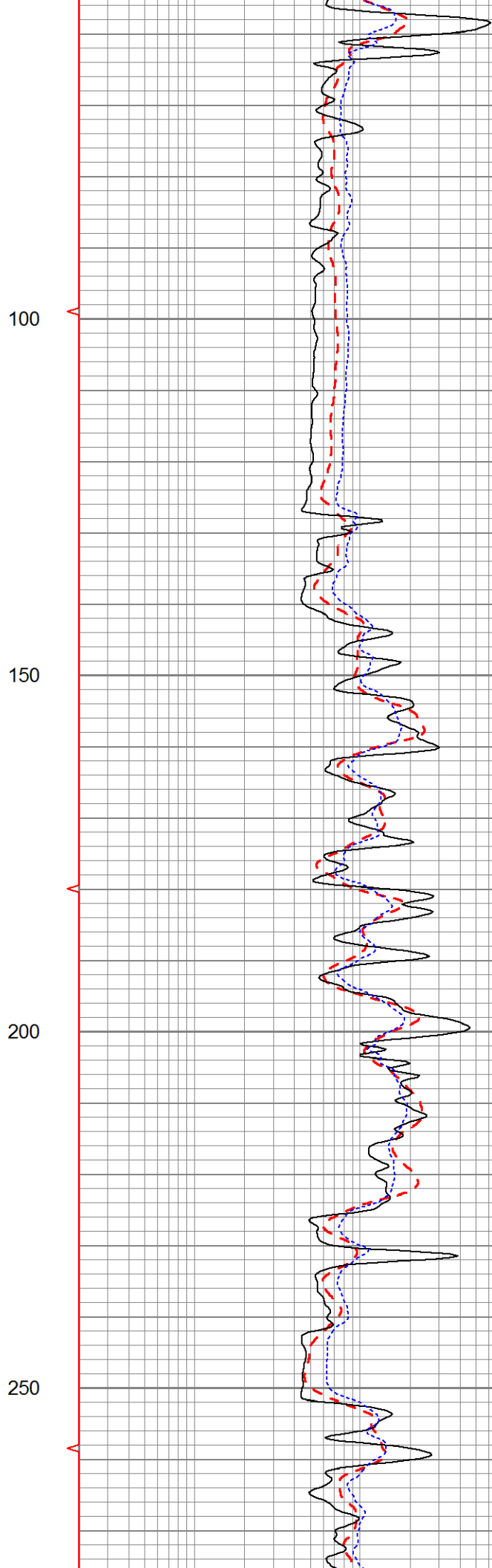
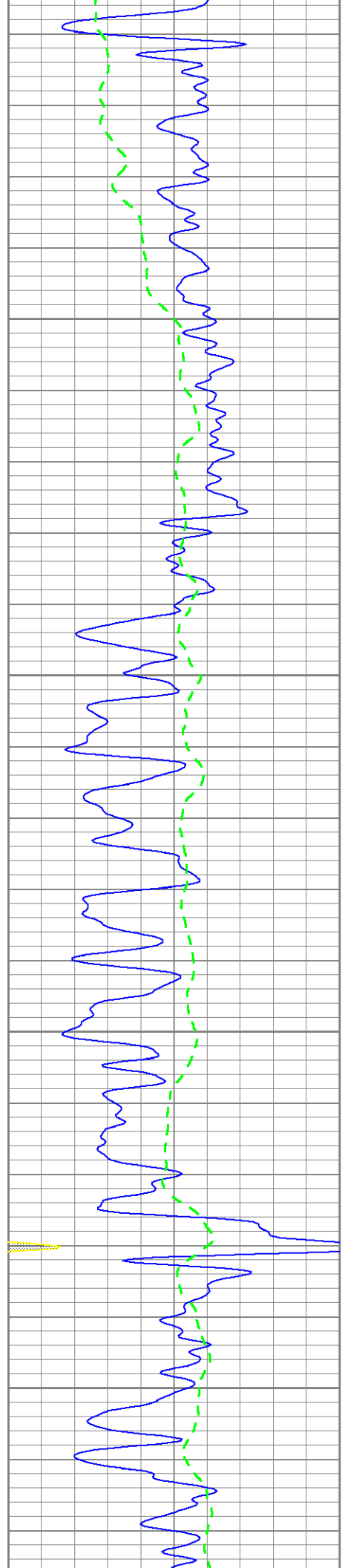
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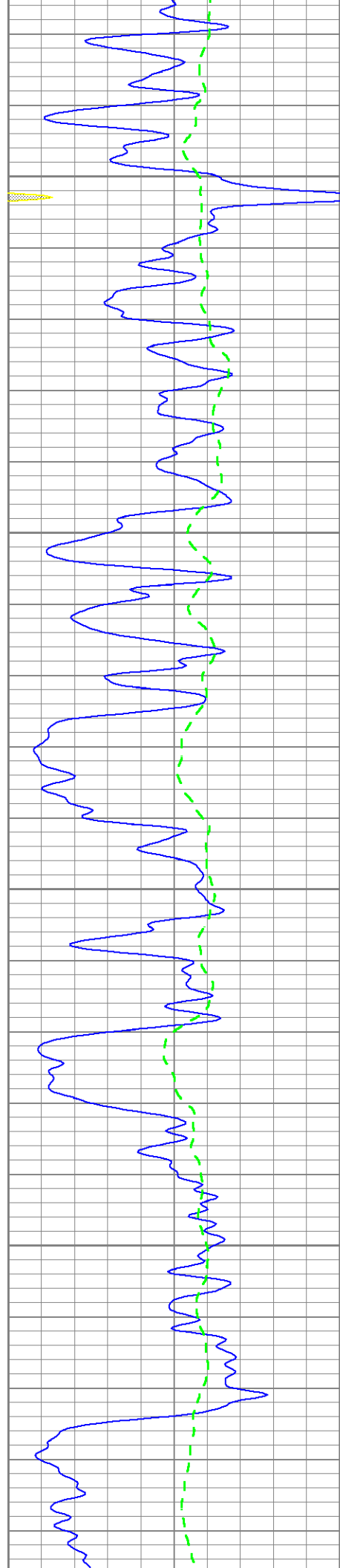




Database File: mcgowan4375.db
 Dataset Pathname: run3/pass2AB
 Presentation Format: dil
 Dataset Creation: Mon Dec 16 06:27:51 2013
 Charted by: Depth in Feet scaled 1:240





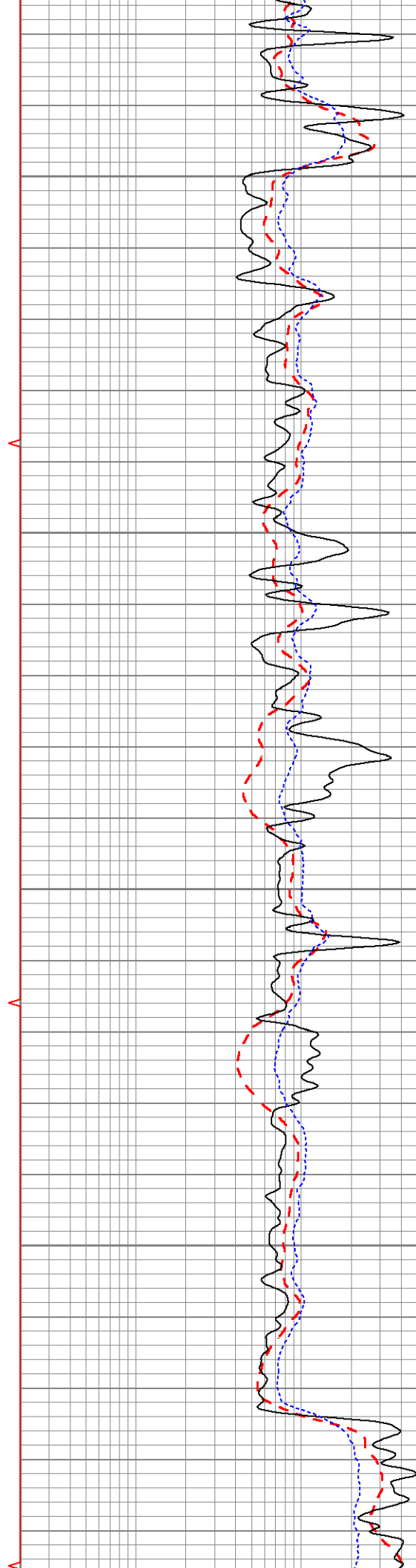


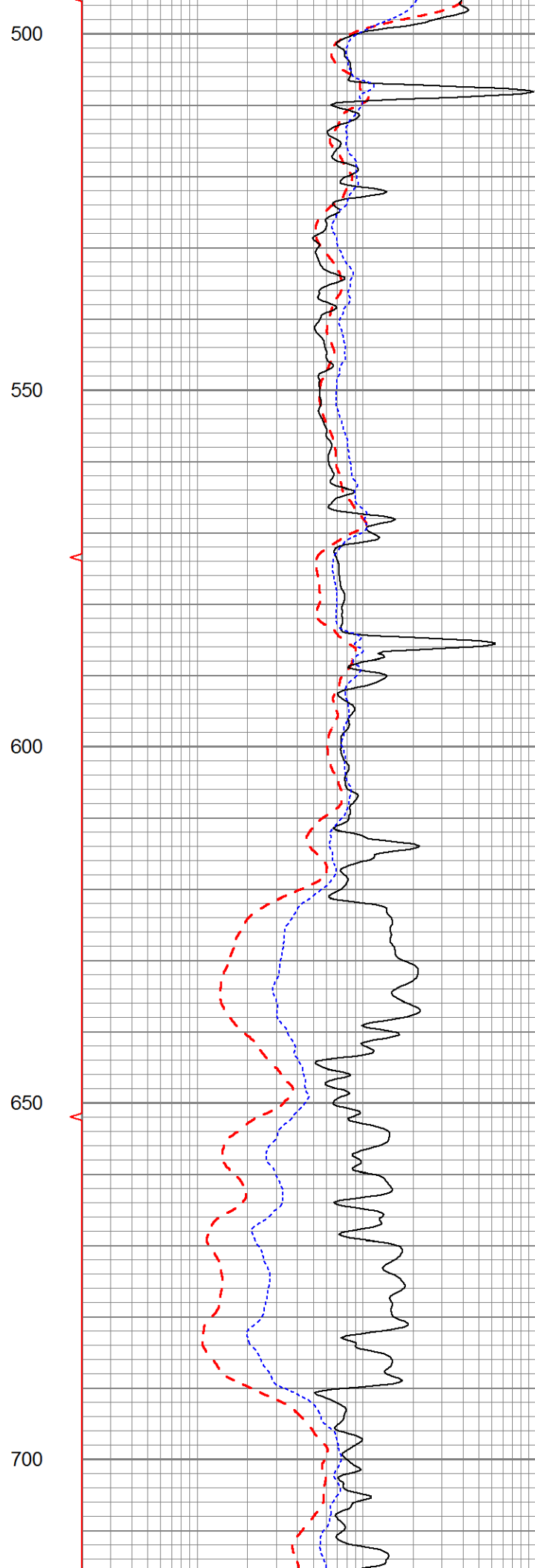
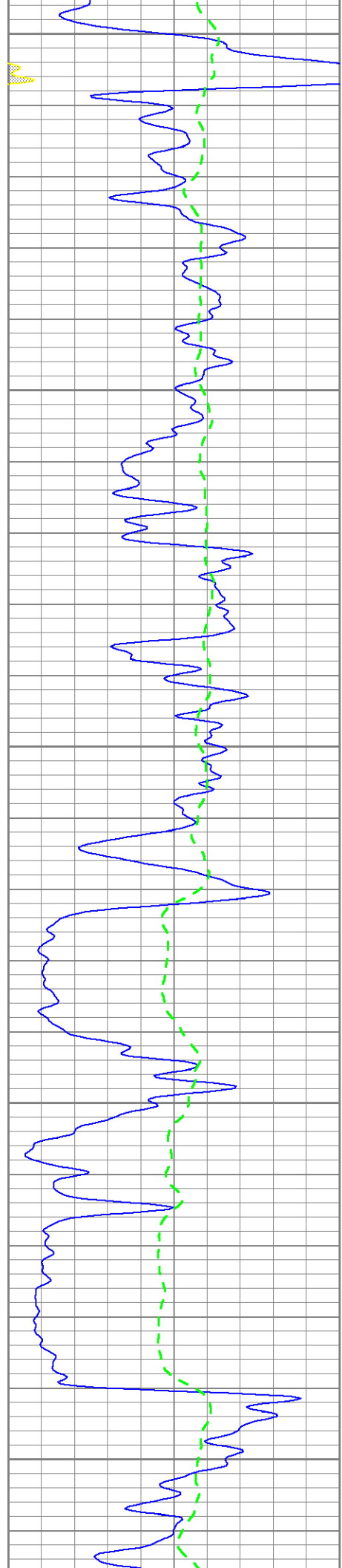
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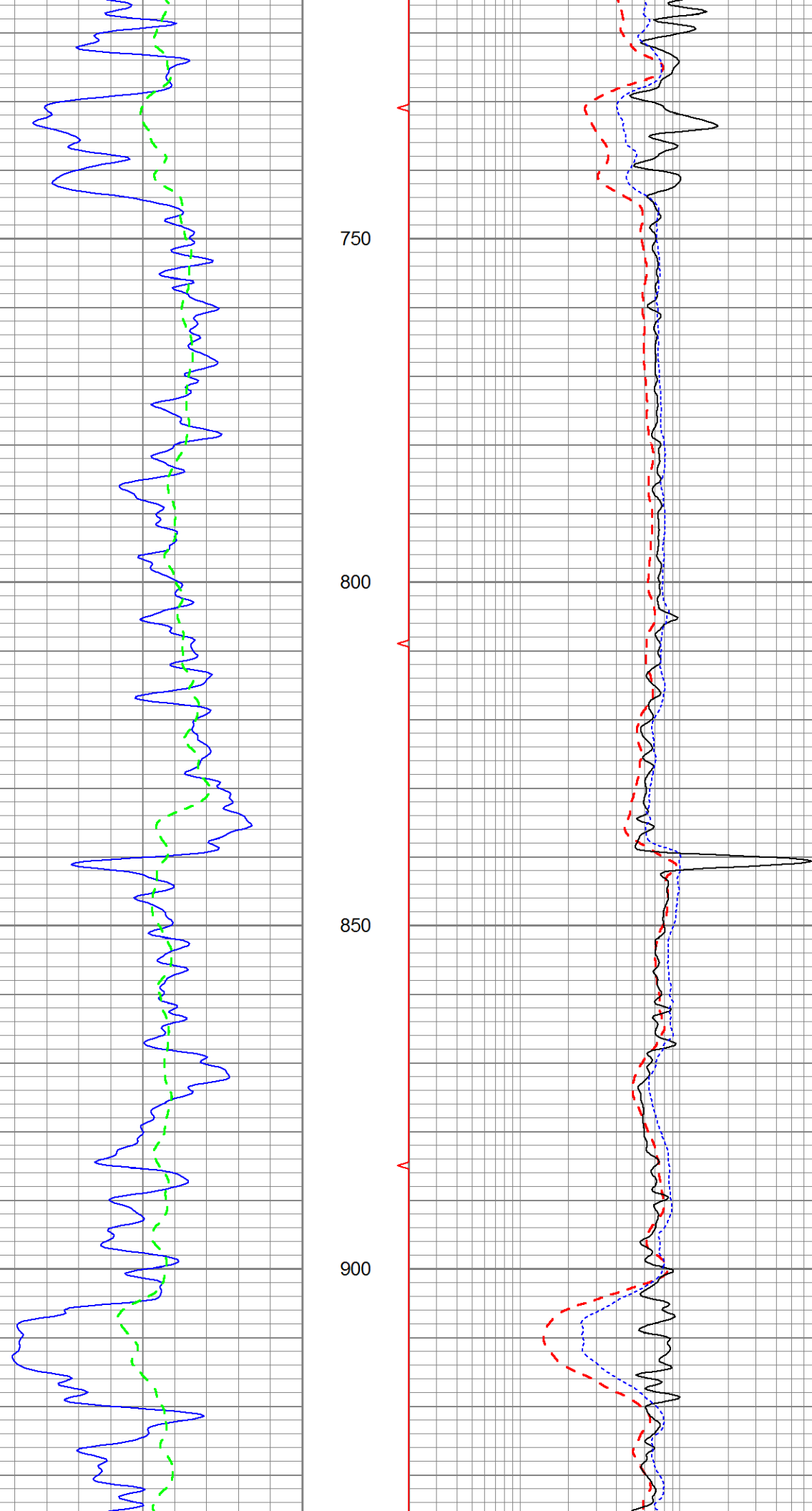
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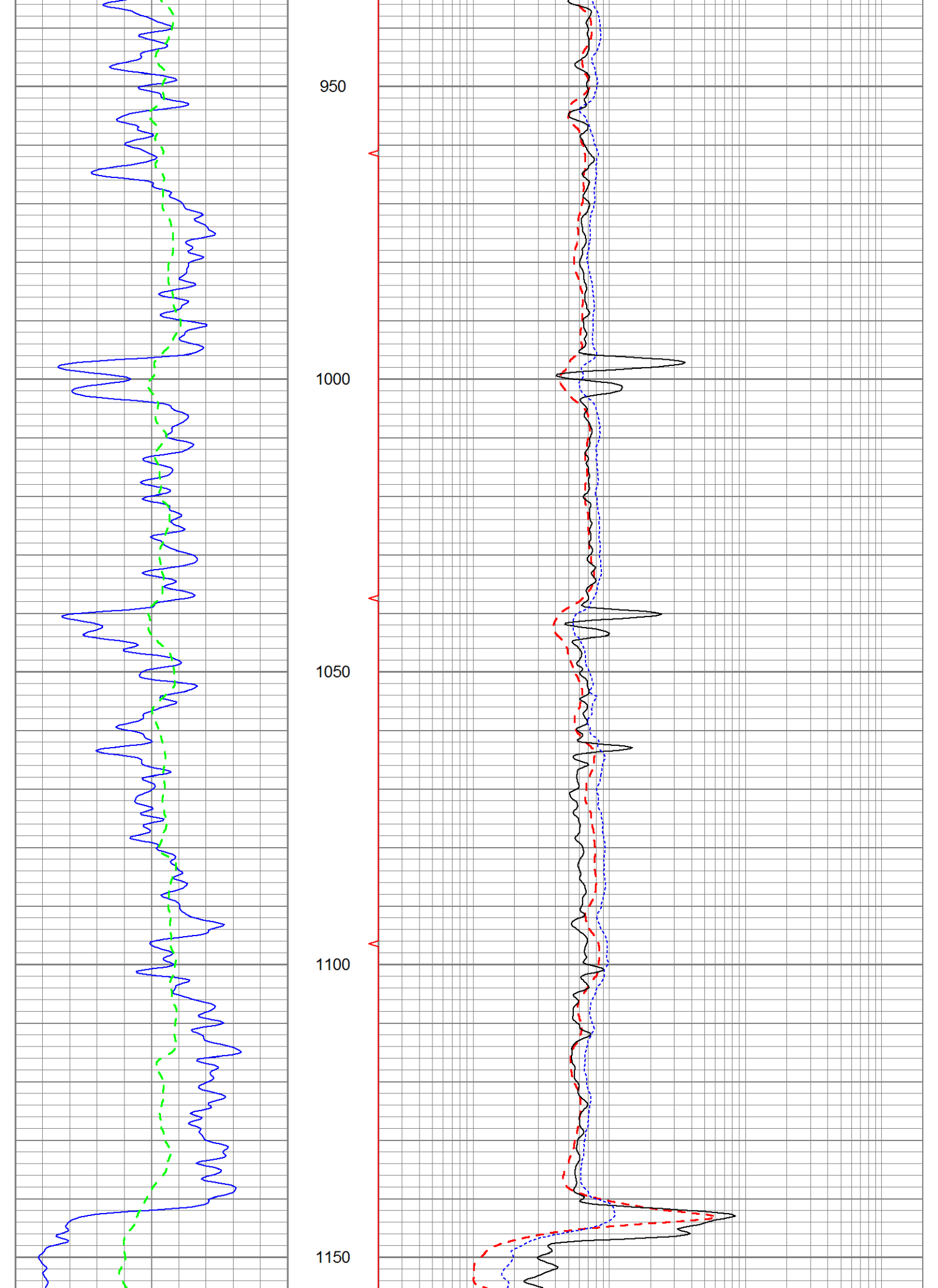
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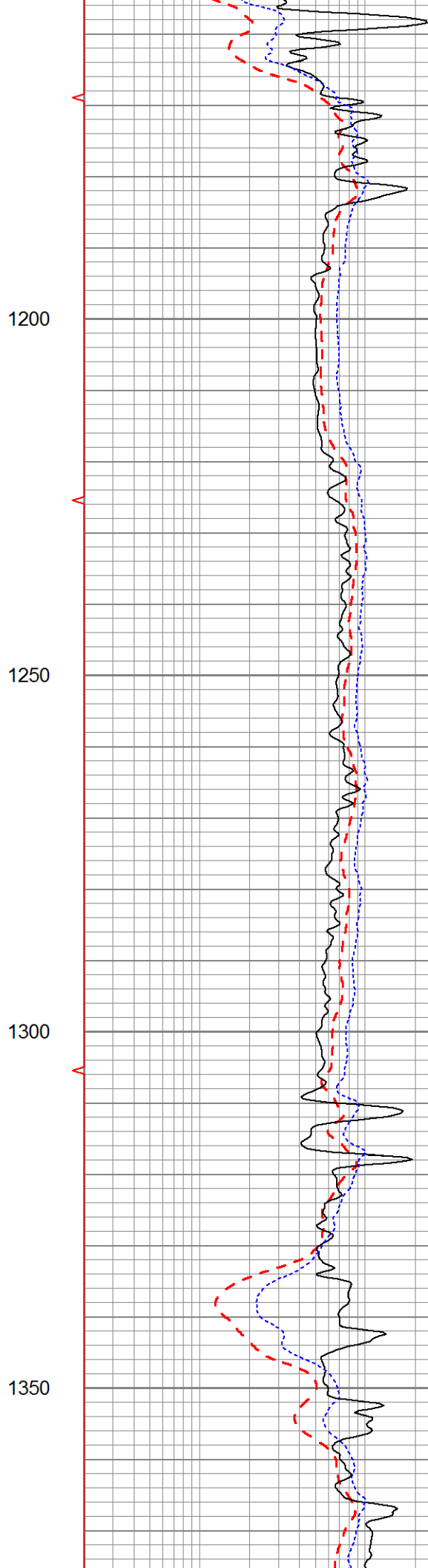
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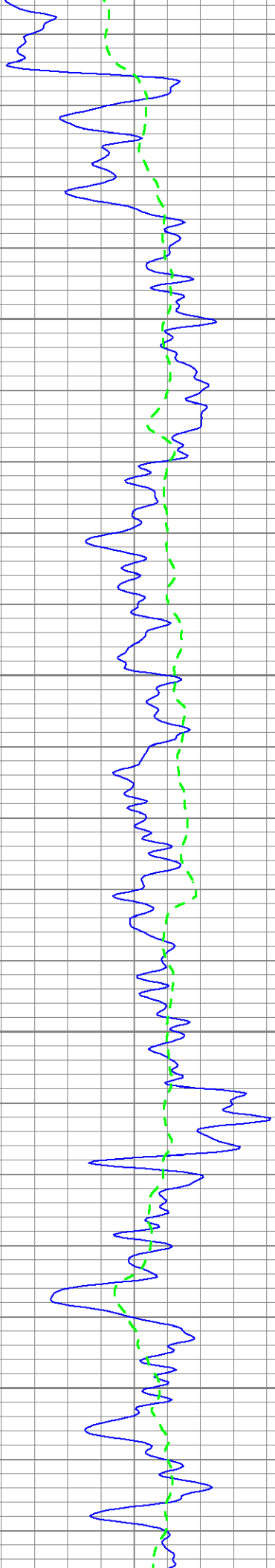


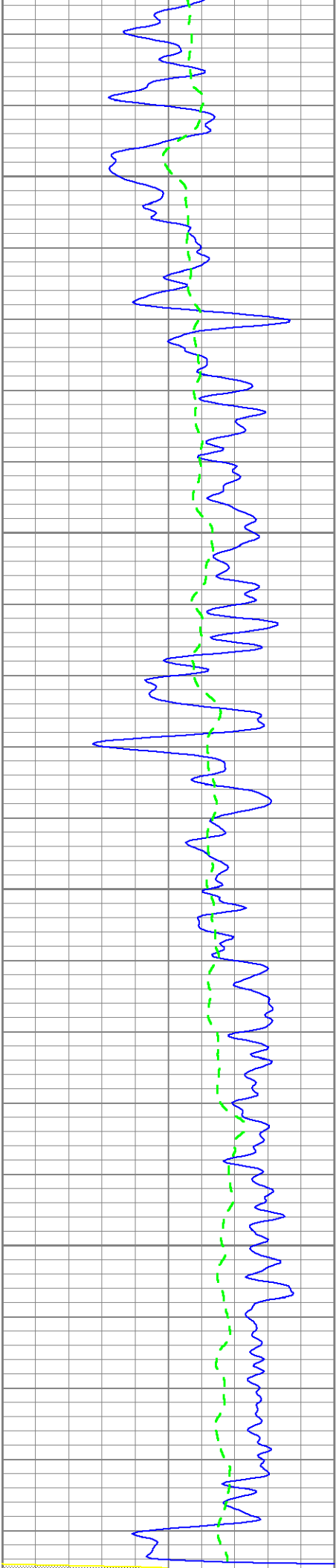
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1250

1300

1350



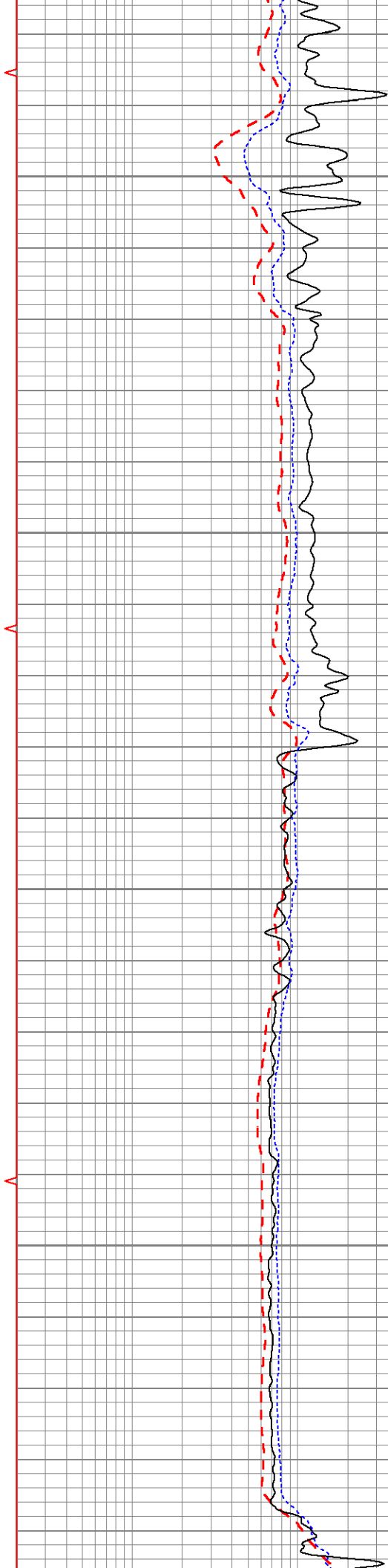


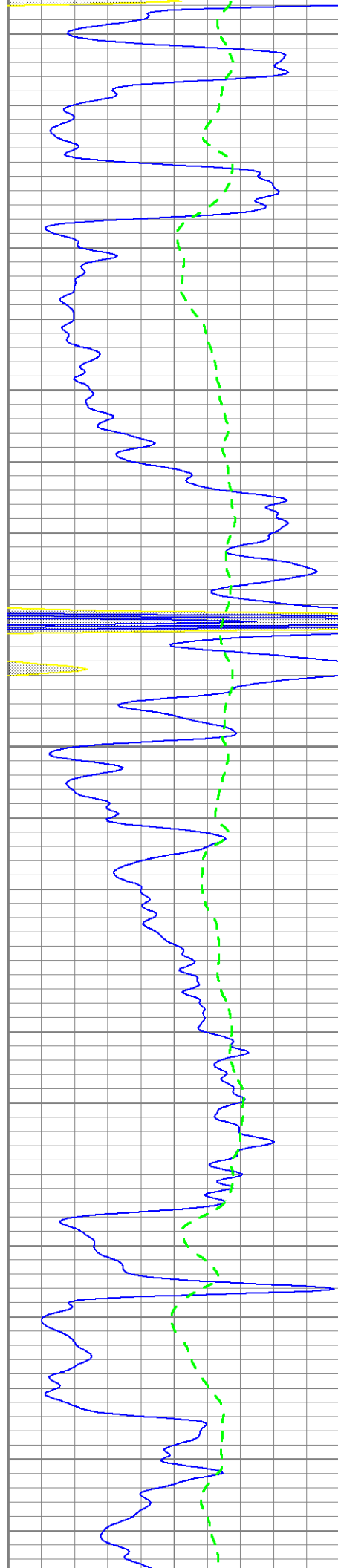
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1450

1500

1550





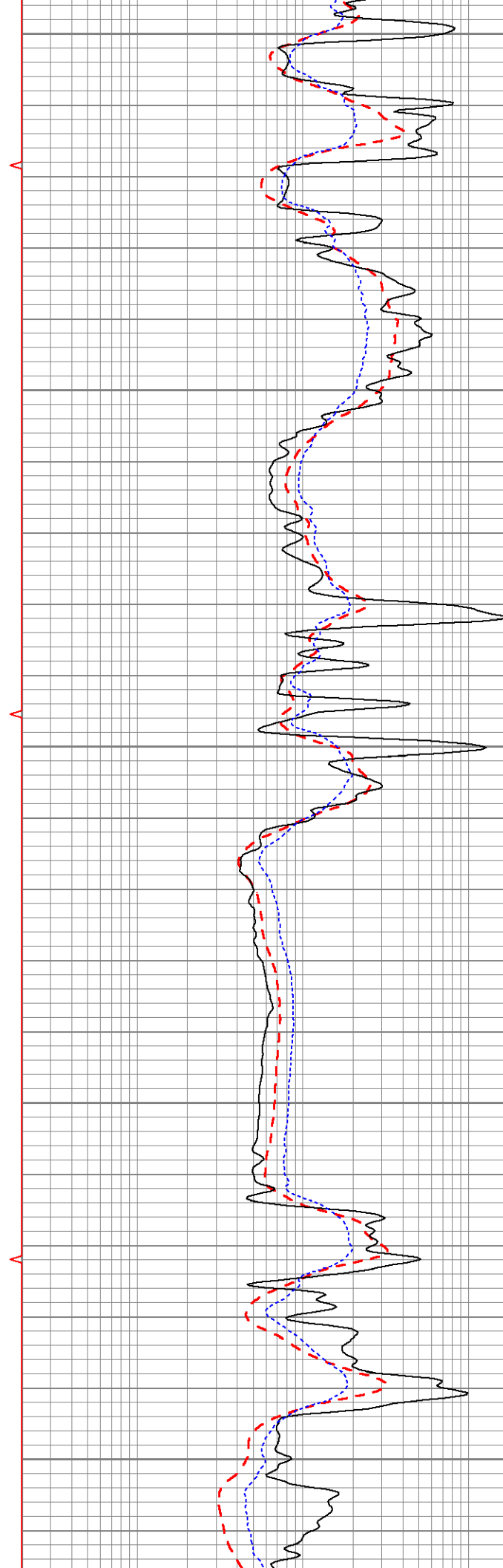
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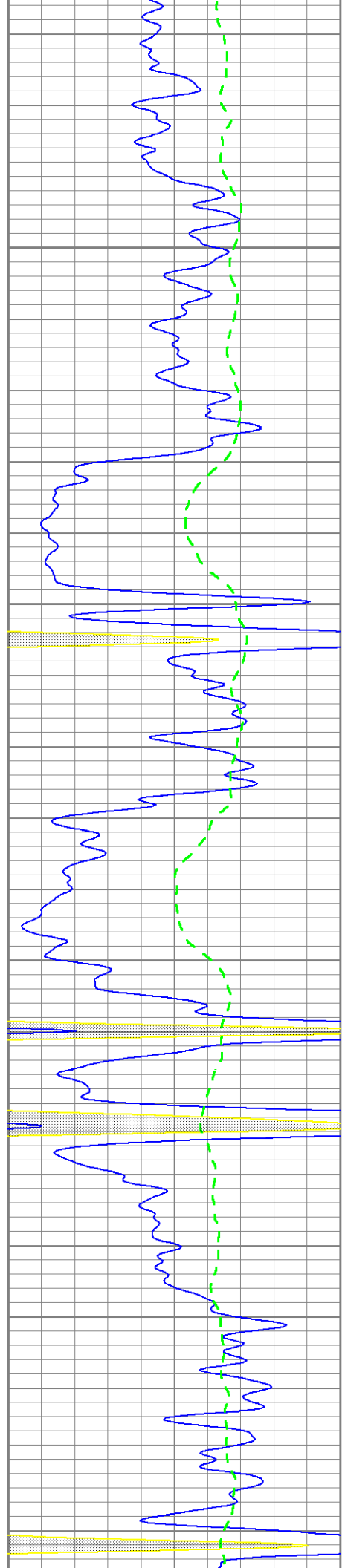
1650

1700

1750

1800



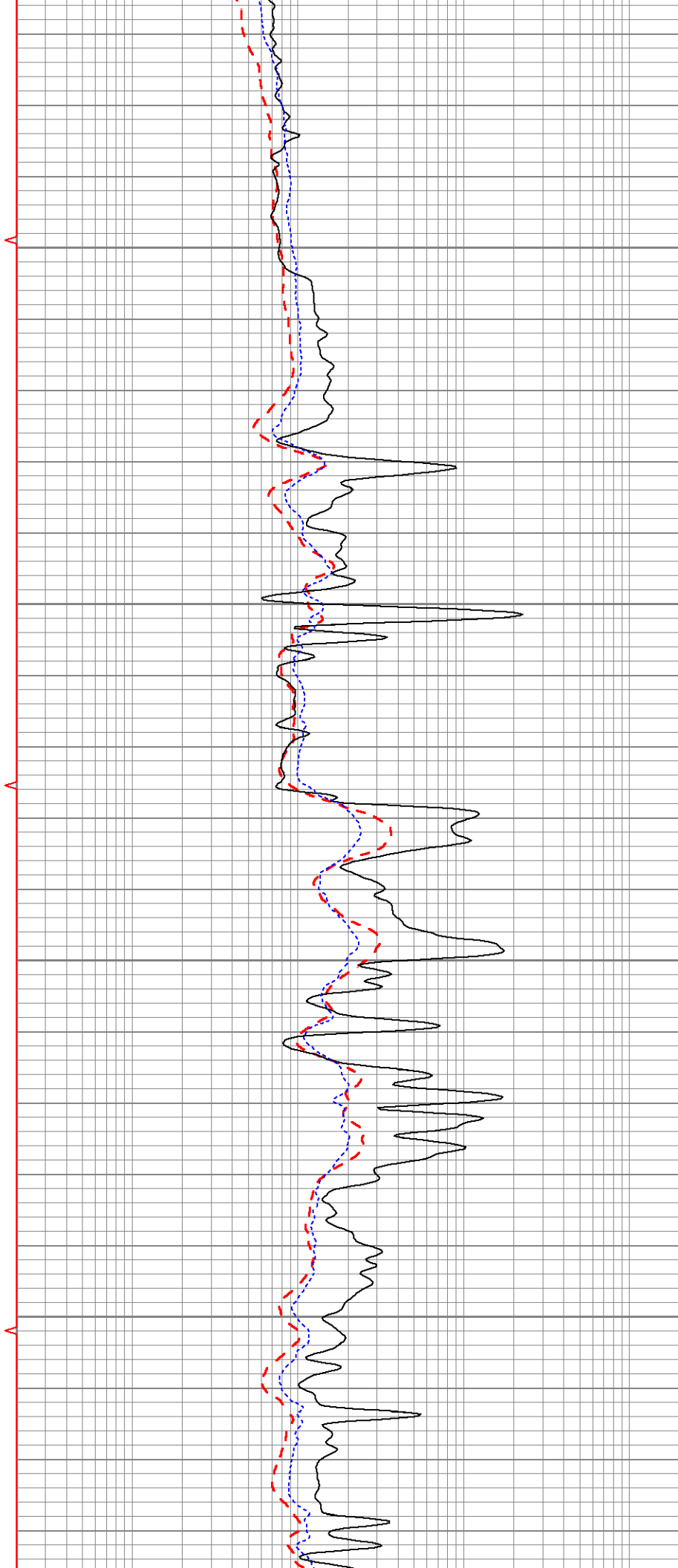


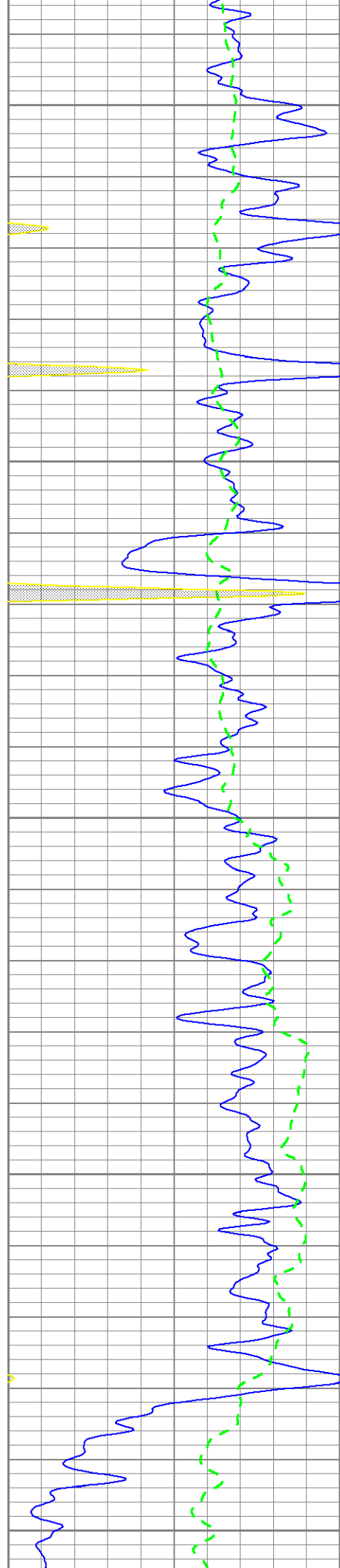
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1950

2000





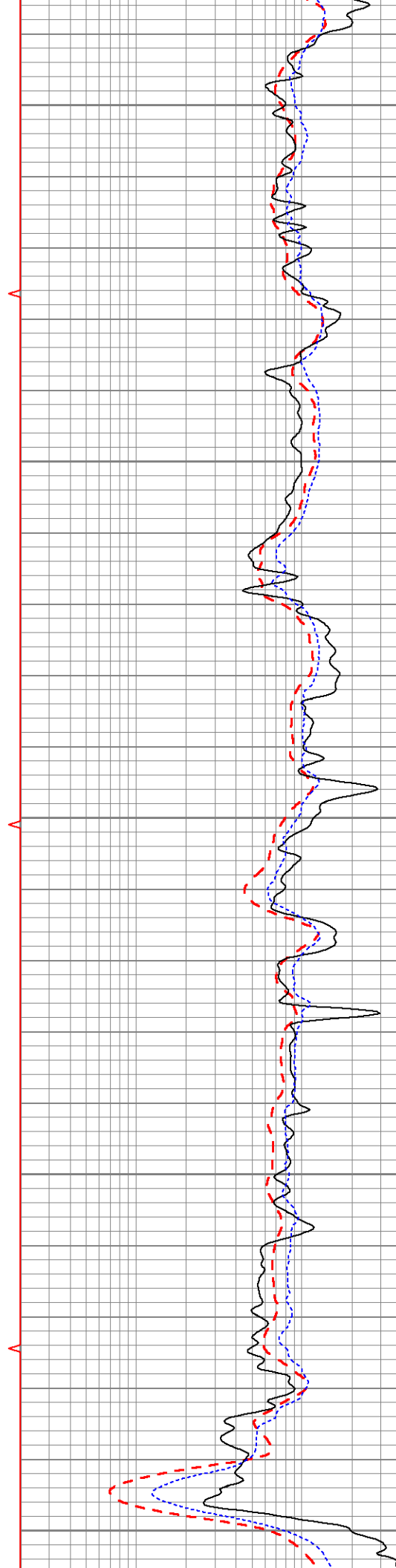
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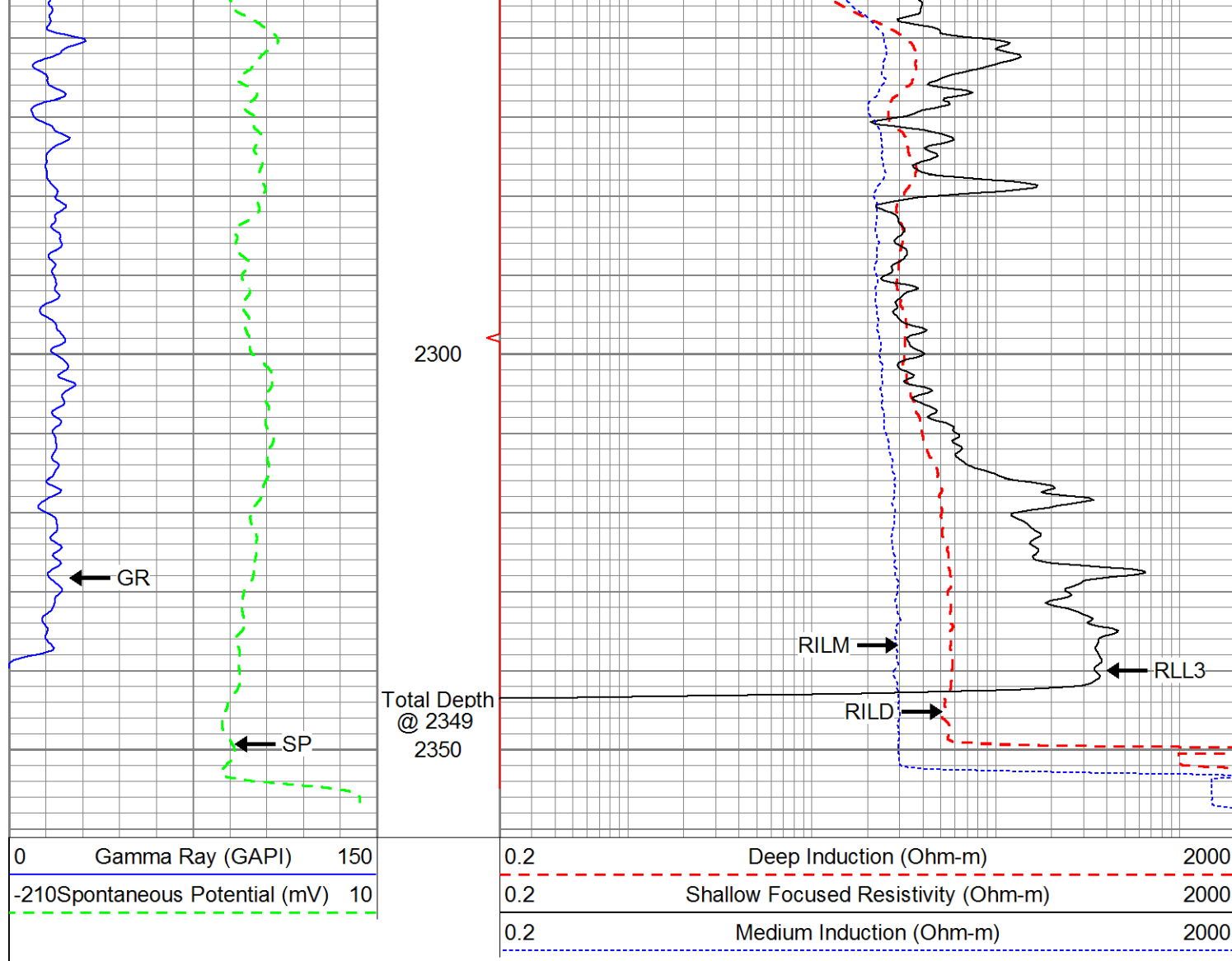
2100

2150

2200

2250





Calibration Report

Database File: mcgowan4375.db
 Dataset Pathname: run3/pass2AB
 Dataset Creation: Mon Dec 16 06:27:51 2013

Dual Induction Calibration Report

Serial-Model: DIL_001-DLI
 Surface Cal Performed:

Loop:	Readings		References		Results	
	Air	Loop	Air	Loop	m	b
Deep	526.000	1757.000	0.000	402.000	0.450	-151.550
Medium	425.000	2700.000	0.000	650.000	0.350	-162.500

Gamma Ray Calibration Report

Serial Number: GR_001
 Tool Model: DLI
 Performed: Thu Jun 06 09:55:54 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.5000 GAPI/cps