BAKER HUGHES

# Multi-Finger Caliper

Company SOUTHERN CALIFORNIA GAS CO
Well PORTER 44
Field ALISO CANYON
County LOS ANGELES
State CALIFORNIA

Location: API # :
1720.78' S. & 2994.52' W. FROM STATION 84
SEC 28 TWP 3N RGE 16W

Other Services: NONE

Permanent Datum GL Elevation 2393.5
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 2204.5
D.F. 2203
G.L. 2393.5

| | |
|---|---|
| Date | 25-FEB-16 |
| Run Number | 1 |
| Service Order | US106146J |
| Depth Driller | 8100 |
| Depth Logger | 7639 |
| Bottom Logged Interval | 7639 |
| Top Log Interval | 0 |
| Type Fluid | 3% KCL |
| Density / Viscosity | 8.5 LBS/GAL |
| Max. Recorded Temp. | N/A |
| Estimated Cement Top | N/A |
| Time Well Ready | 06:30 |
| Time Logger on Bottom | 08:00 |
| Equipment Number | 4353 |
| Location | OKLAHOMA CITY |
| Recorded By | MATT WOOD |
| Witnessed By | ROGER LEFLER |

Borehole Record

| Run Number | Bit | From | To |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

Tubing Record

| Size | Weight | From | To |
|---|---|---|---|
| 7 | 23# | SURFACE | 6798' |
| 7" | 26# | 6798' | 7805' |

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | | | | |
| Prot. String | | | | |
| Production String | | | | |
| Liner | | | | |

<<< Fold Here >>>

In making interpetations of logs, our employees will give the customer the benefit of their best judgement. But since all interpetations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Comments

LOG CORRELATED TO DRESSER ATLAS CBL, 10-JAN-1973
INLINE CENTRALIZERS RAN

BAKER HUGHES

## Main Section

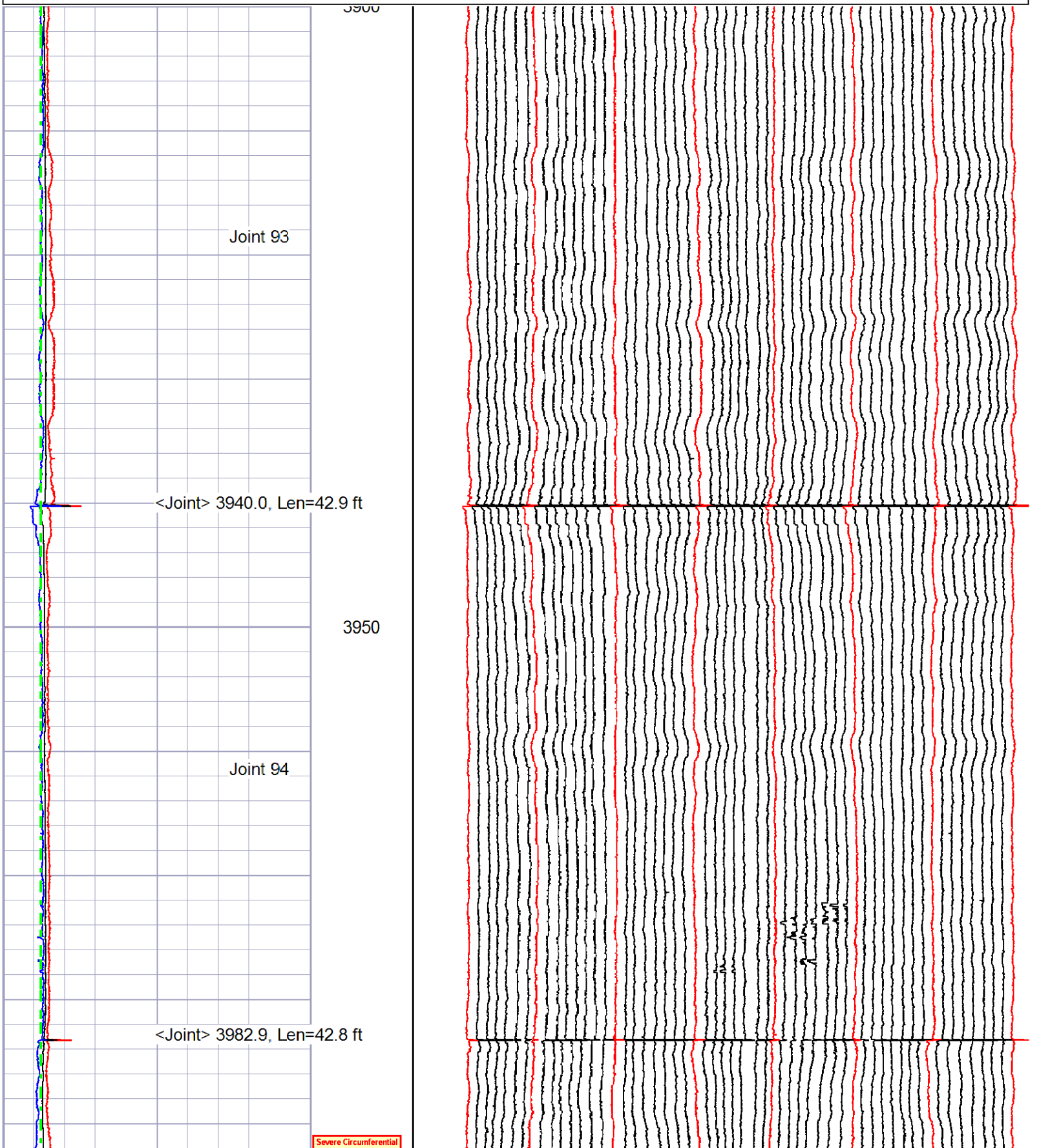
### Expanded Scale Over Anomaly

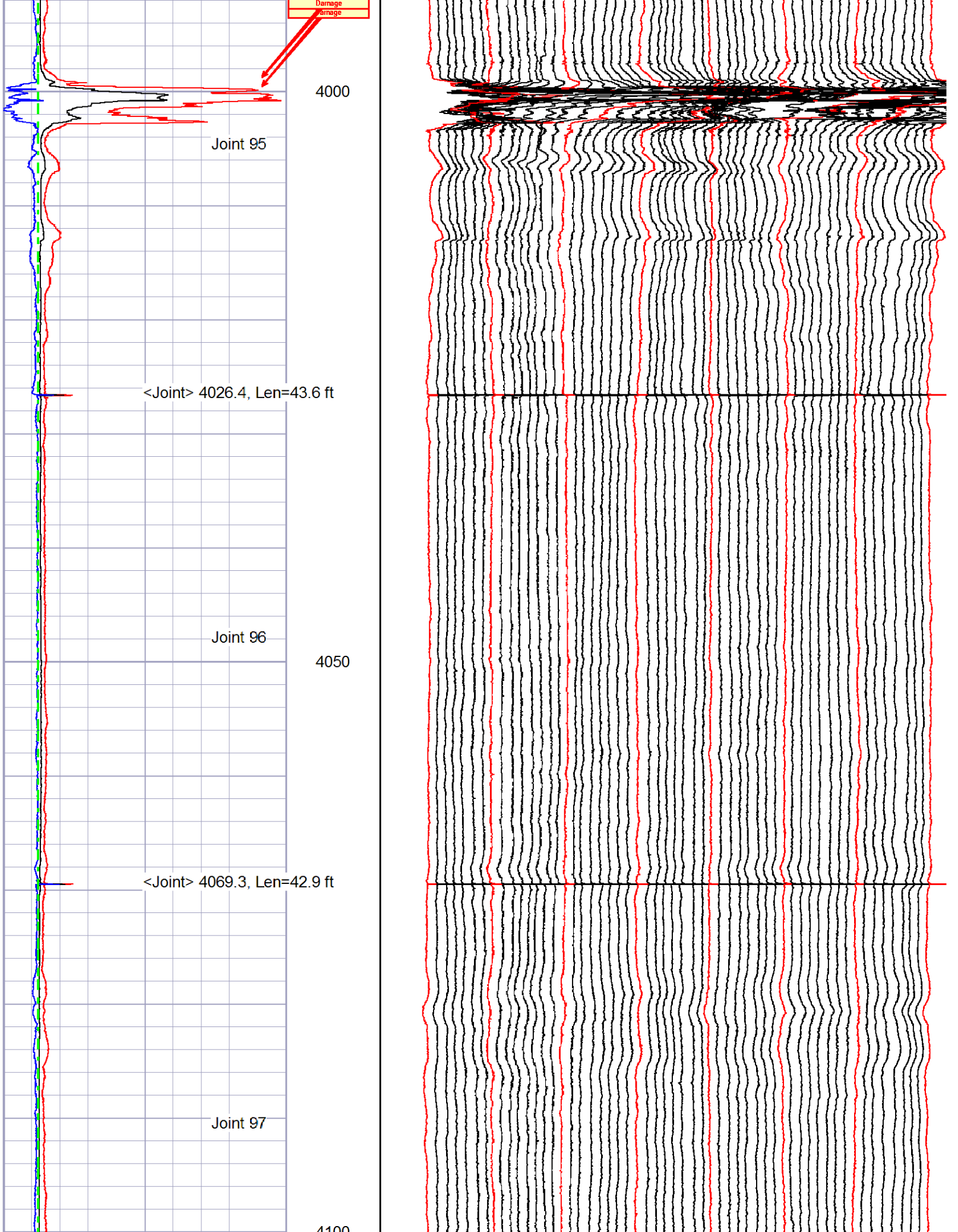
Database File c:\hotwell_mips\southern california gas portter 44\project\main_proc.db

| | |
|---|---|
| Dataset Pathname | main_proc |
| Presentation Format | 5f_23_2lb |
| Dataset Creation | Fri Feb 26 00:26:33 2016 |
| Charted by | Depth in Feet scaled 1:120 |

| | | |
|---|---|---|
| 6 | Maximum ID (in) | 9 |
| 6 | Average - ID (in) | 9 |
| 6 | Minimum - ID (in) | 9 |
| 6 | Nominal Casing ID (in) | 9 |

2.933 56 FINGER TRACE (in) 6.033






6 Maximum ID (in) 9

2.933 56 FINGER TRACE (in) 6.033

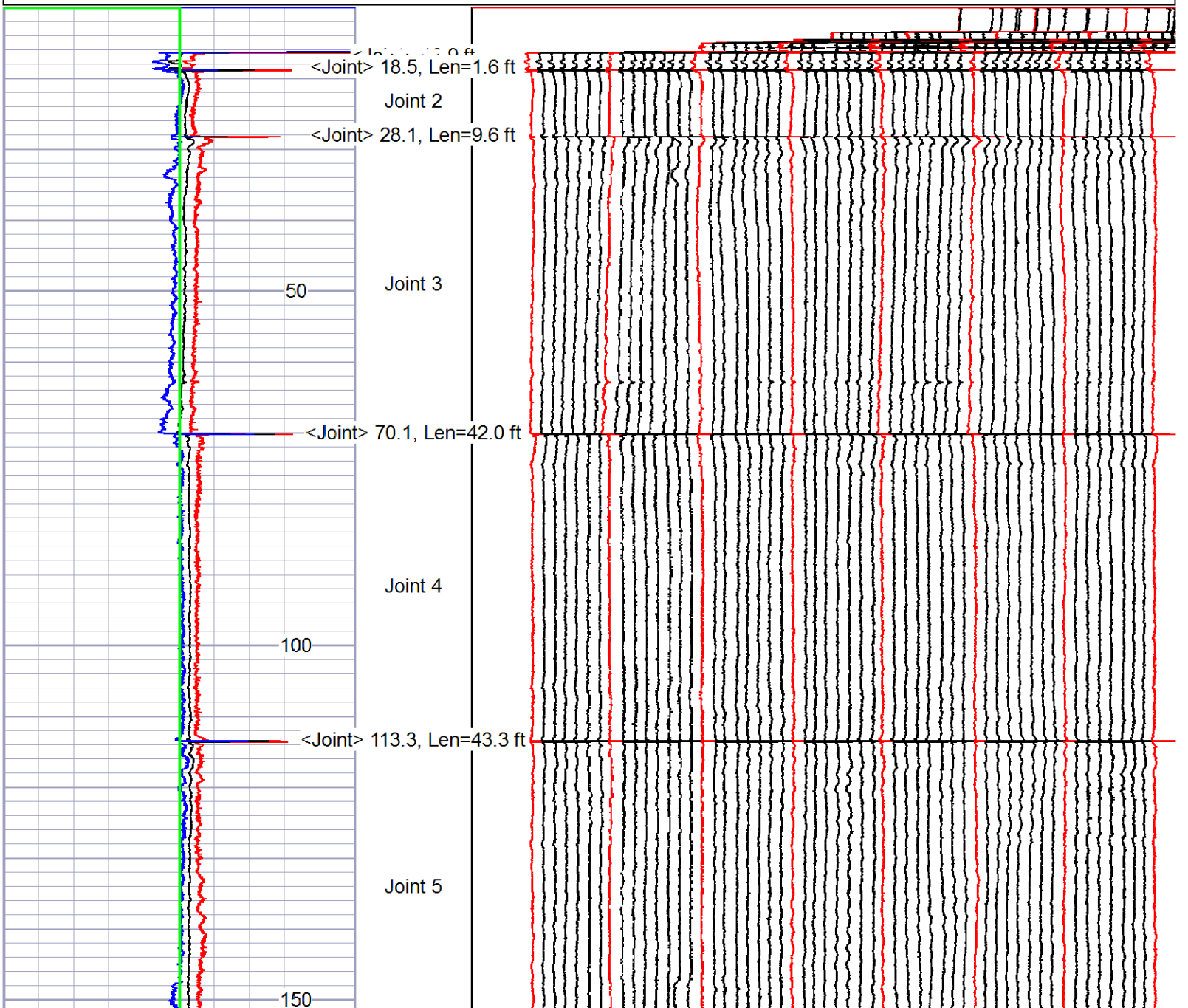
| | | |
|---|---|---|
| 6 | Average - ID (in) | 9 |
| 6 | Minimum - ID (in) | 9 |
| 6 | Nominal Casing ID (in) | 9 |

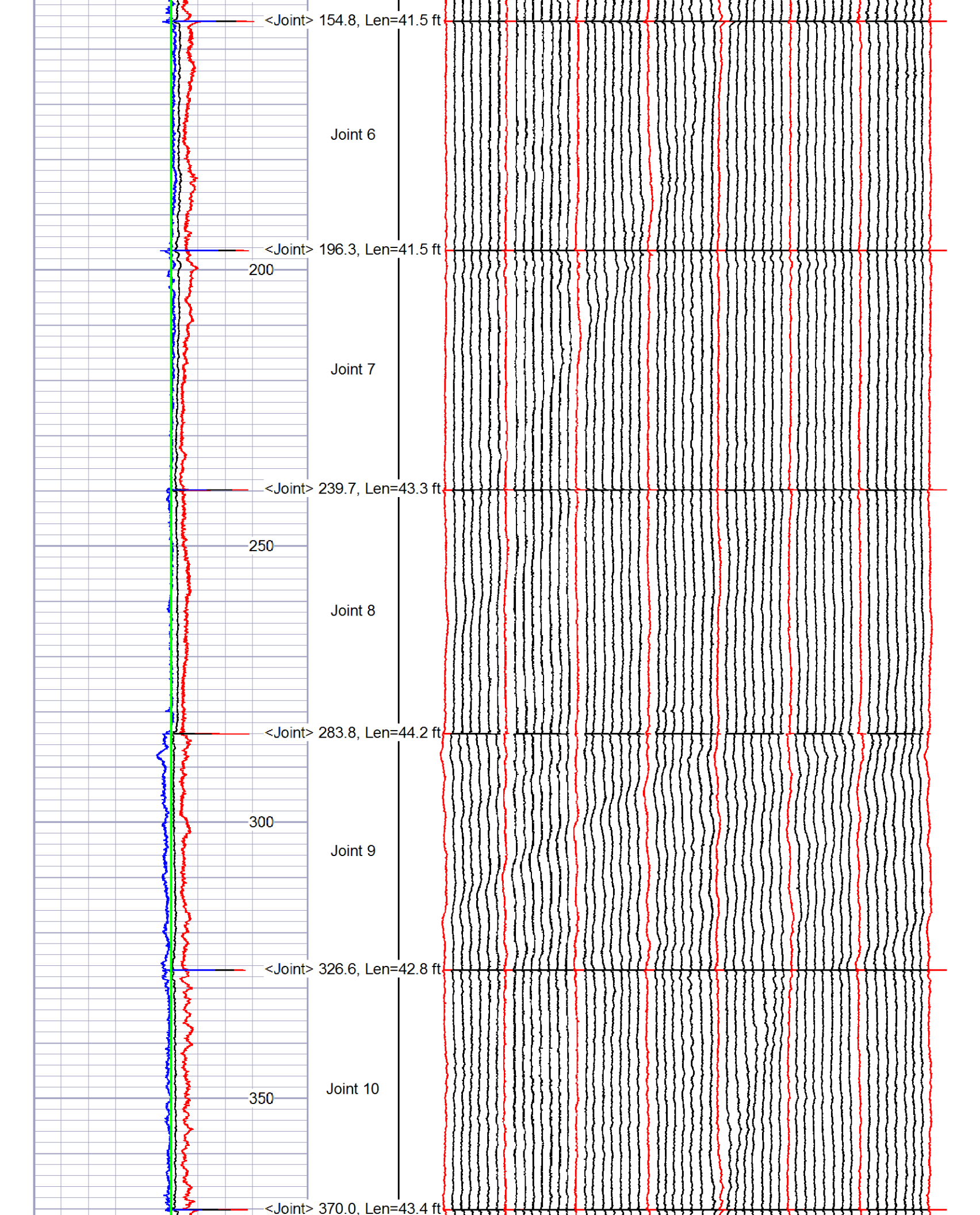
# Main Section

| | |
|---|---|
| Database File | c:\hotwell_mips\southern california gas portter 44\project\main_proc.db |
| Dataset Pathname | main_proc |
| Presentation Format | 5f_23_2lb |
| Dataset Creation | Fri Feb 26 00:26:33 2016 |
| Charted by | Depth in Feet scaled 1:240 |

| | | |
|---|---|---|
| 5.866 | Maximum ID (in) | 6.866 |
| 5.866 | Average - ID (in) | 6.866 |
| 5.866 | Minimum - ID (in) | 6.866 |
| 5.866 | Nominal ID (in) | 6.866 |

| | | |
|---|---|---|
| 2.933 | 56 FINGER TRACE (in) | 6.033 |

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250
Joint 8
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300
Joint 9
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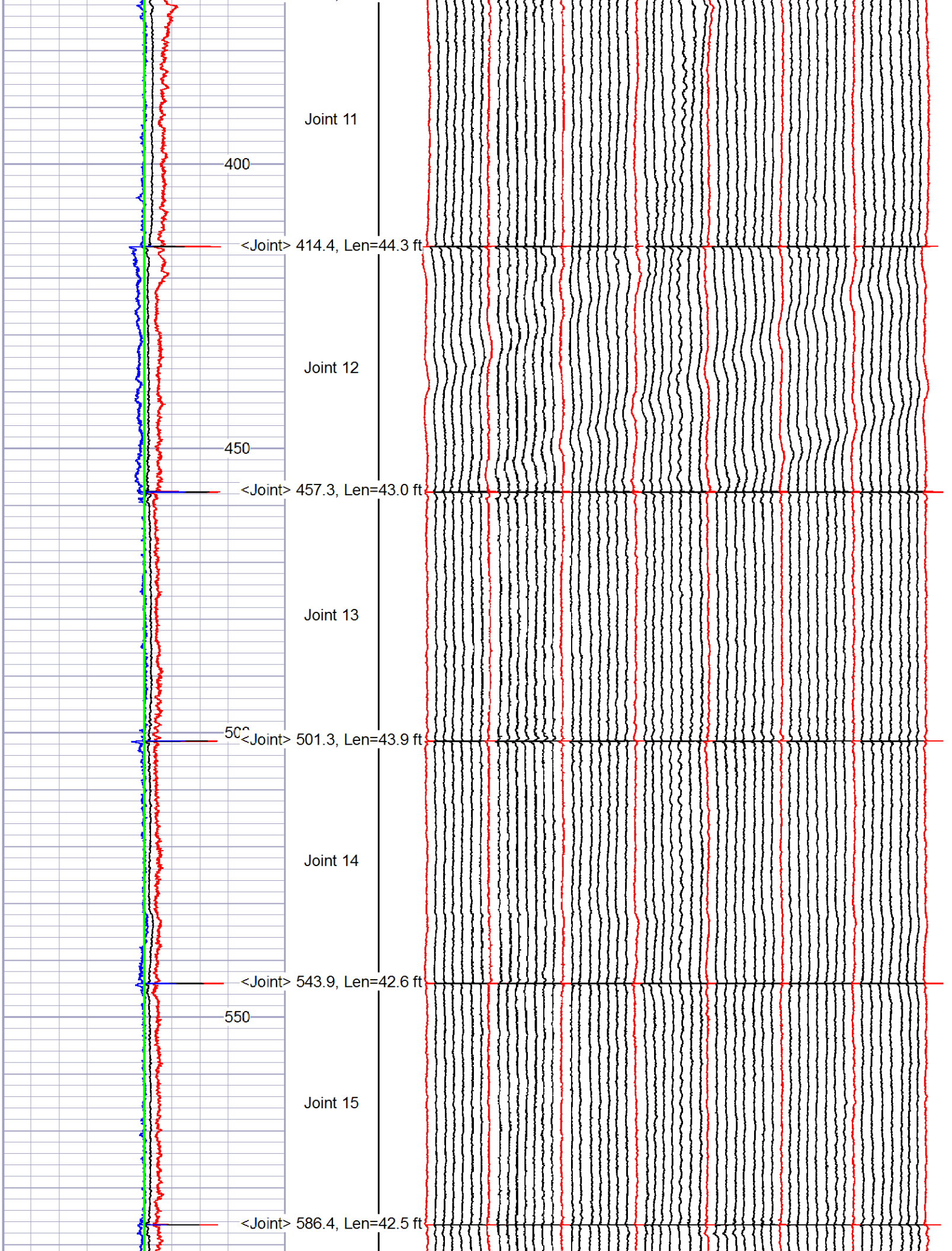
350
Joint 10
<Joint> 370.0, Len=43.4 ft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400
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Joint 12
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Joint 13
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Joint 14
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550
Joint 15
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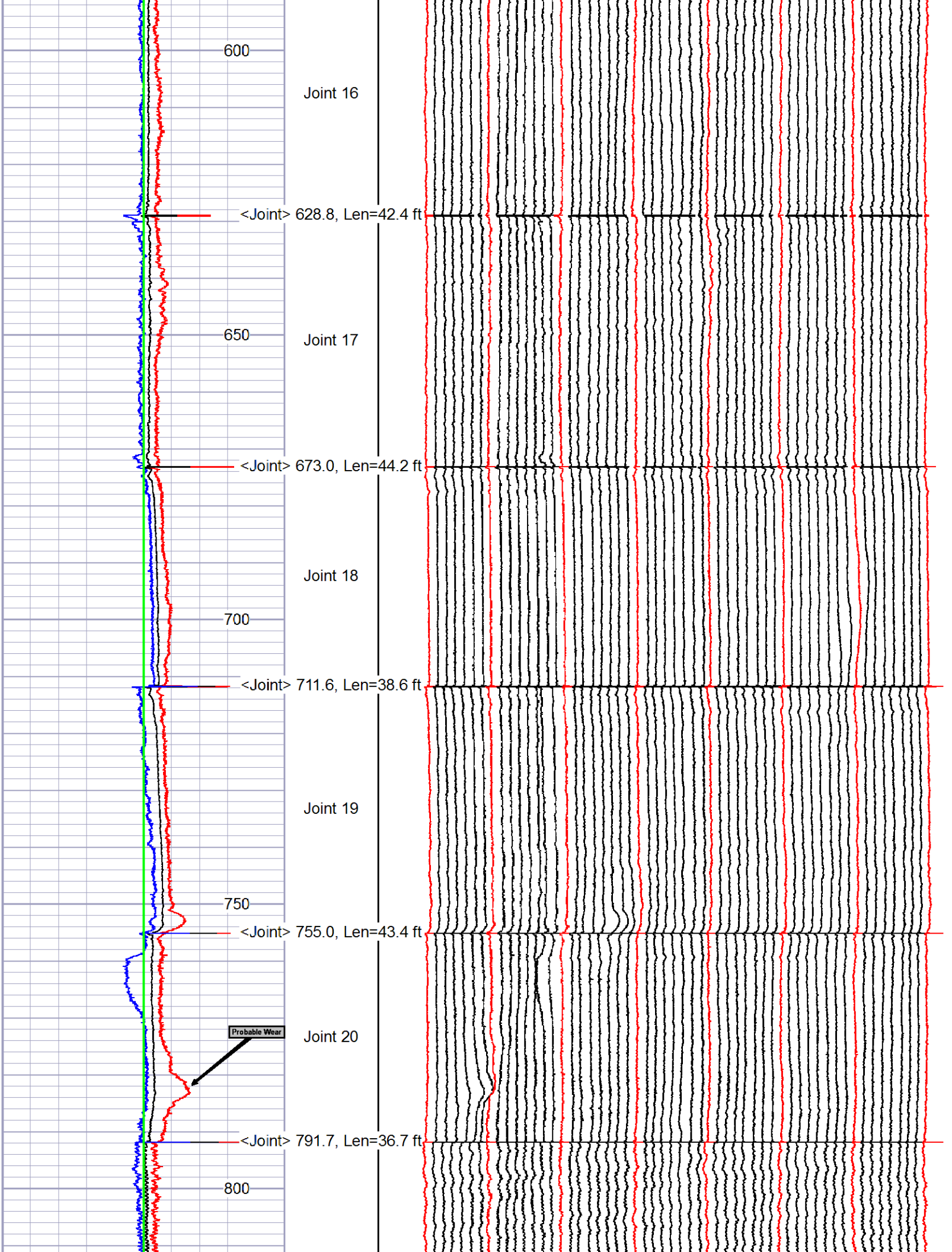
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Joint 16
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650
Joint 17
<Joint> 673.0, Len=44.2 ft
Joint 18
700
<Joint> 711.6, Len=38.6 ft
Joint 19
750
<Joint> 755.0, Len=43.4 ft
Probable Wear
Joint 20
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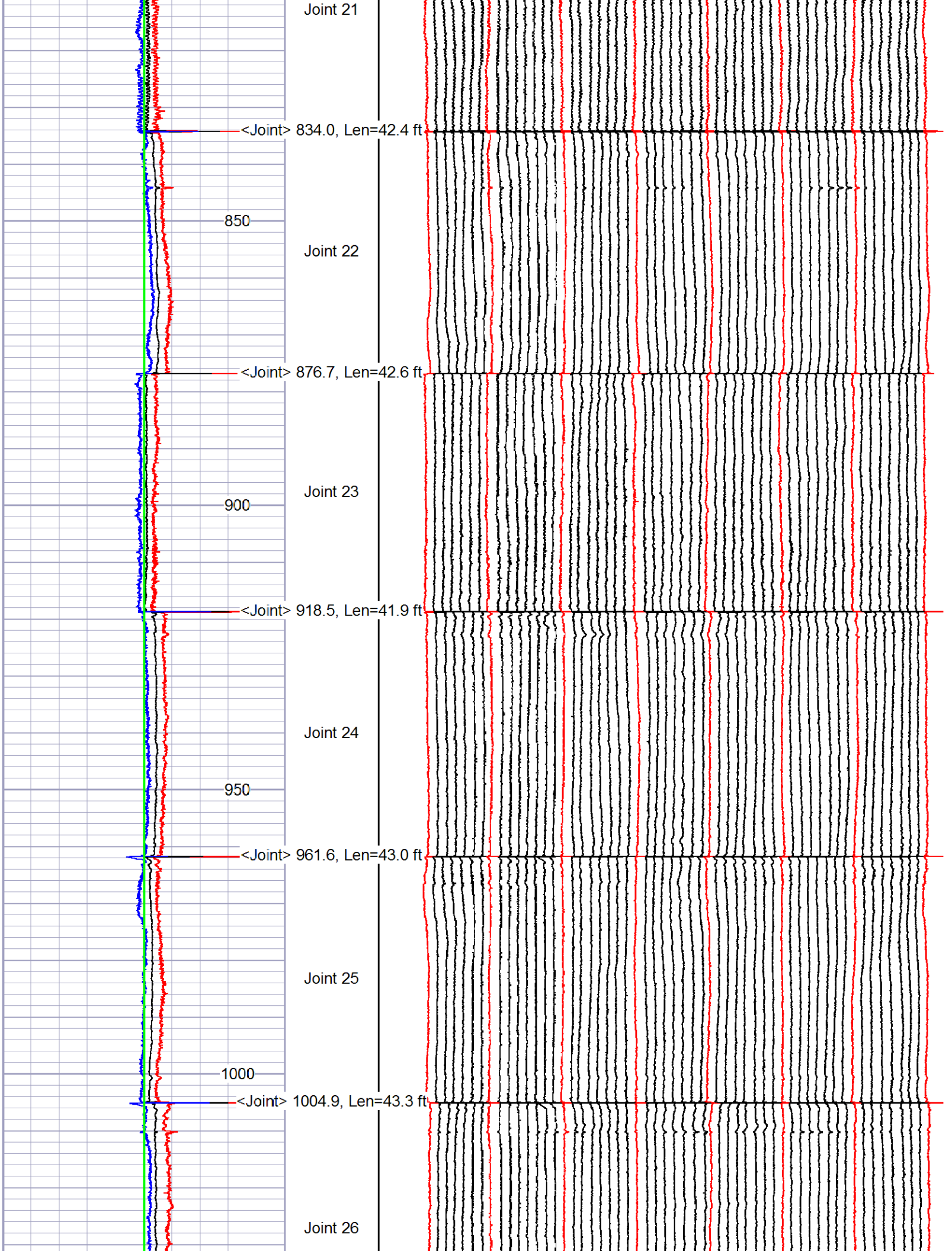
800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Joint 22
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900
Joint 23
<Joint> 918.5, Len=41.9 ft
Joint 24
950
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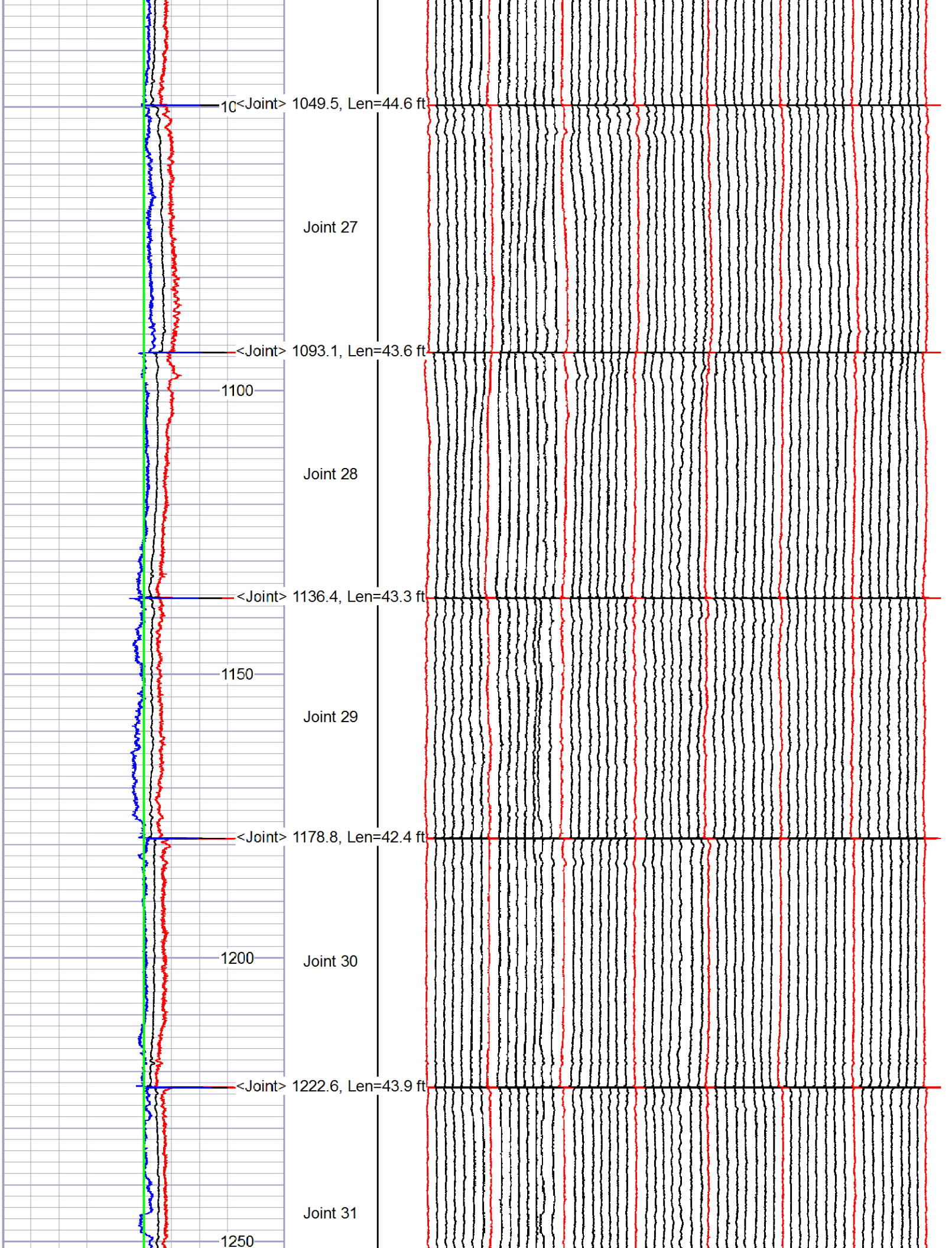
Joint 25
1000
<Joint> 1004.9, Len=43.3 ft
Joint 26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1100
Joint 28
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1150
Joint 29
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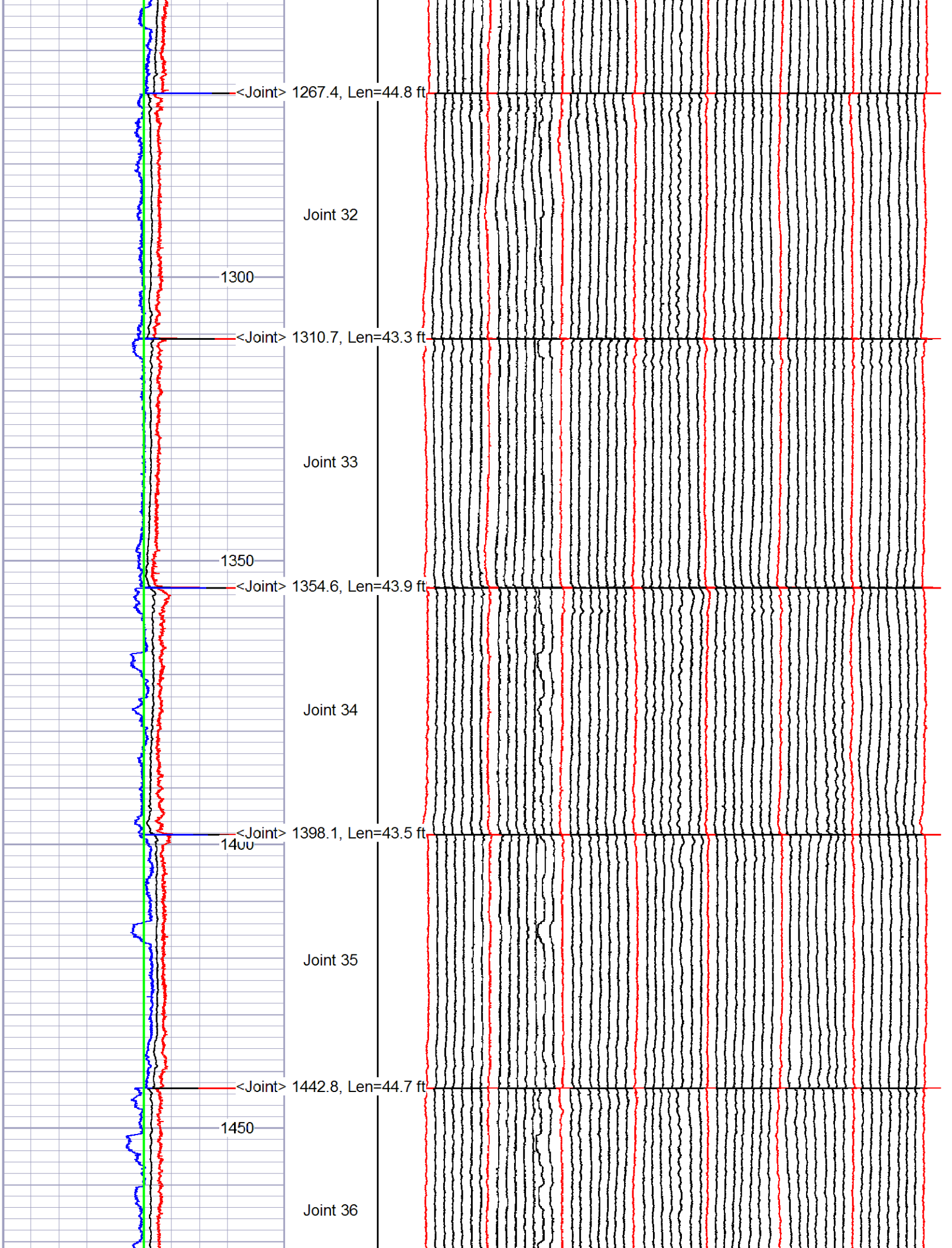
1200
Joint 30
<Joint> 1222.6, Len=43.9 ft
Joint 31
1250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Joint 34
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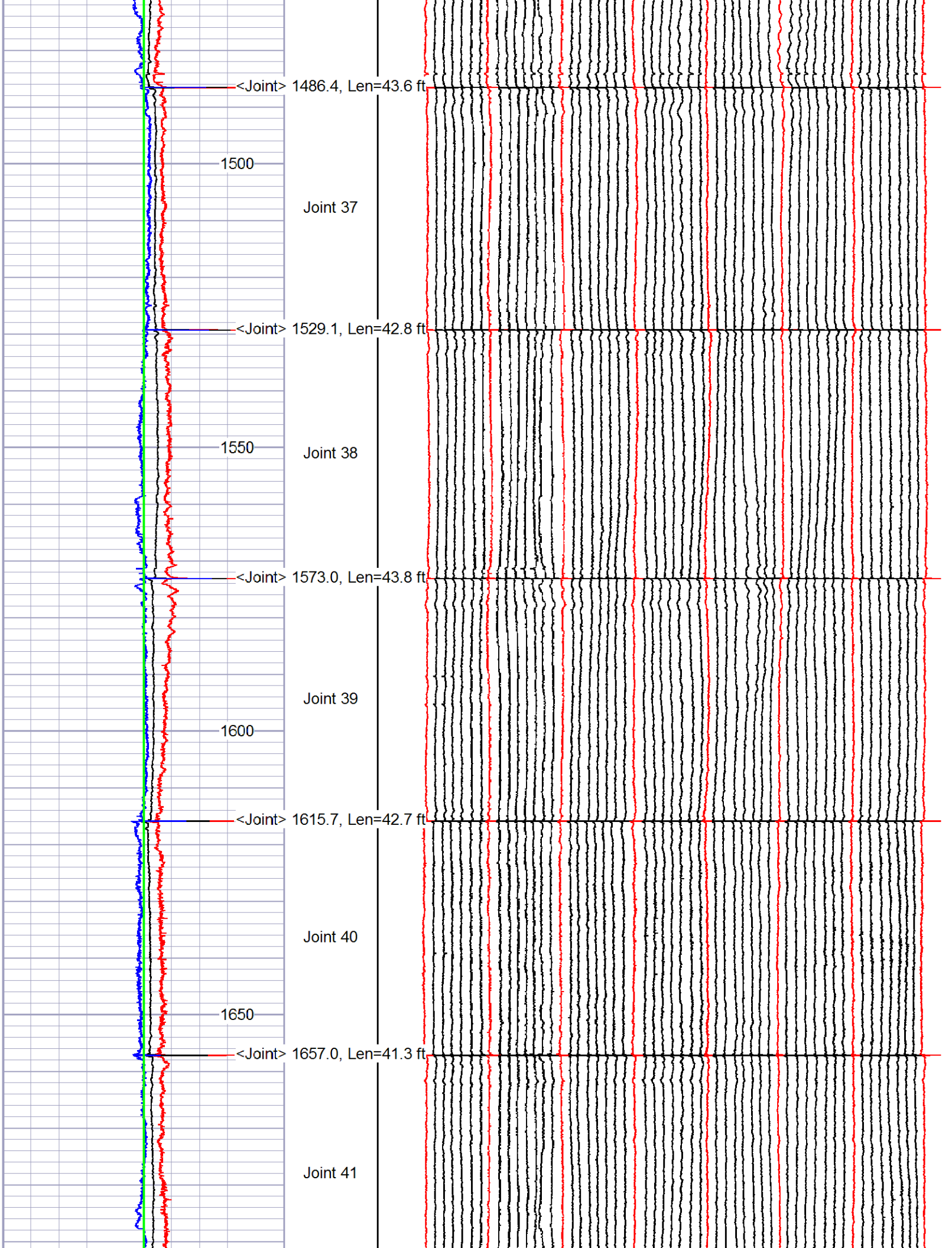
1400
Joint 35
<Joint> 1442.8, Len=44.7 ft
1450
Joint 36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1500
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1550
Joint 38
<Joint> 1573.0, Len=43.8 ft
Joint 39
1600
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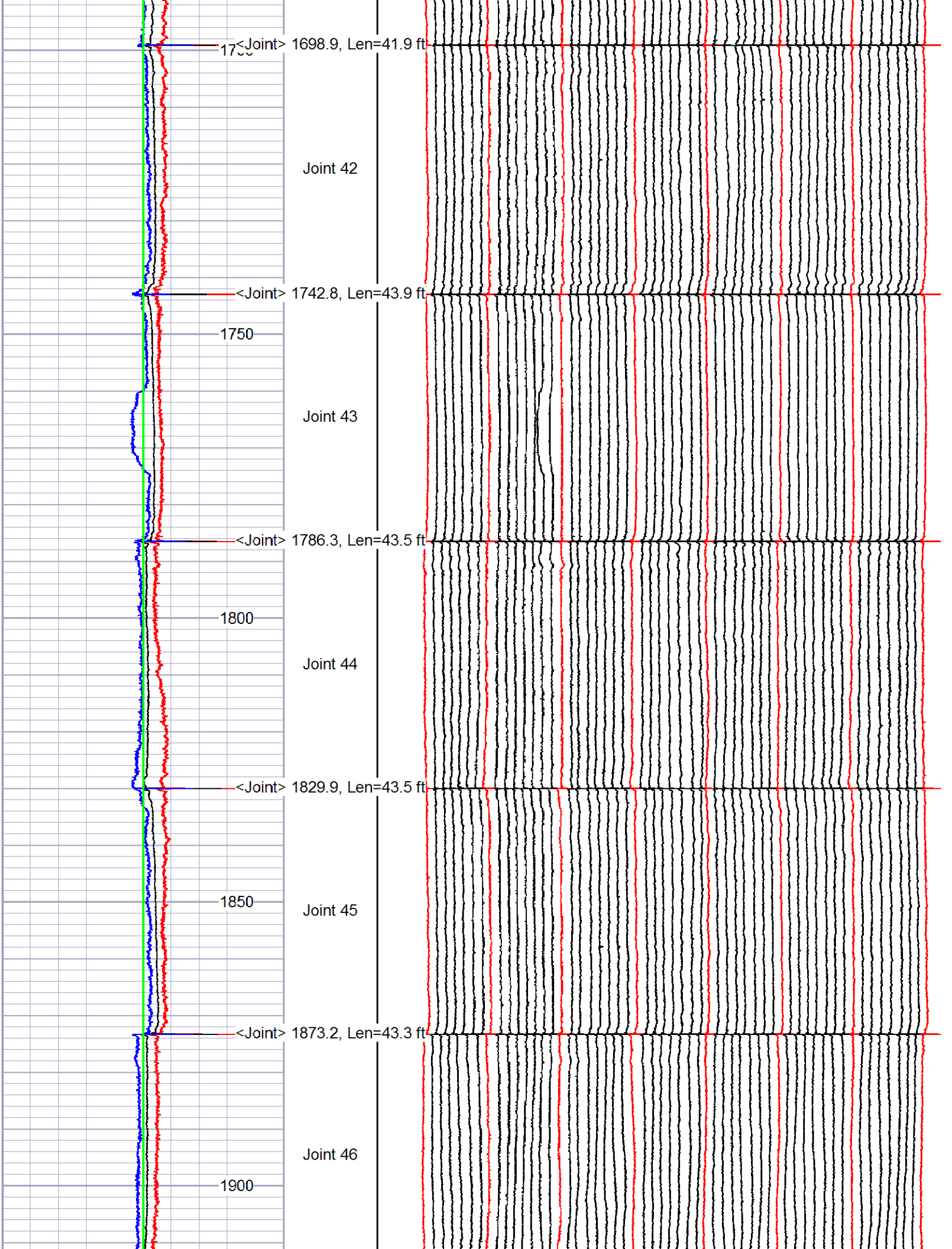
Joint 40
1650
<Joint> 1657.0, Len=41.3 ft
Joint 41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Joint 42
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1750
Joint 43
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1800
Joint 44
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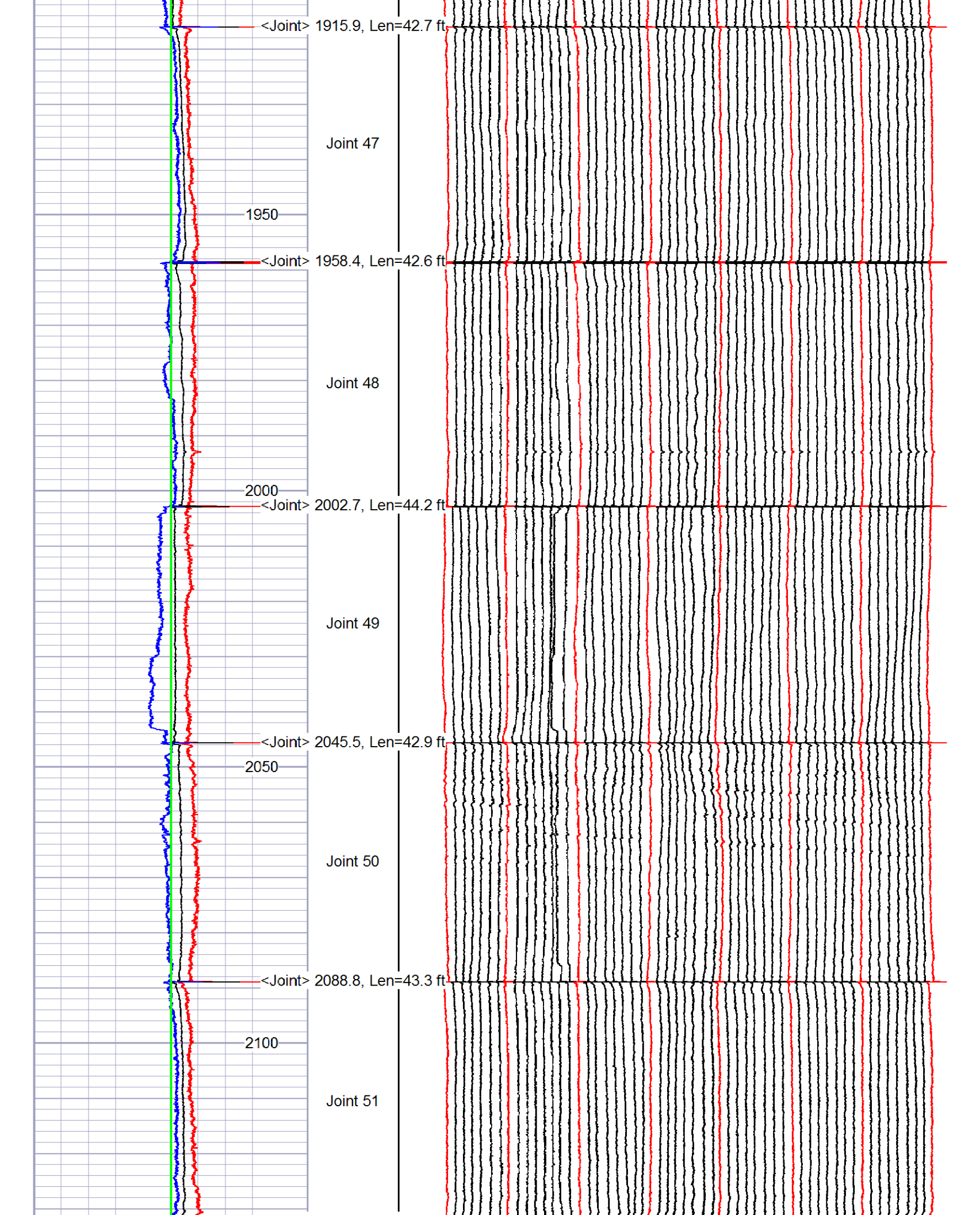
1850
Joint 45
<Joint> 1873.2, Len=43.3 ft
Joint 46
1900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Joint 47
1950
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Joint 48
2000
<Joint> 2002.7, Len=44.2 ft
Joint 49
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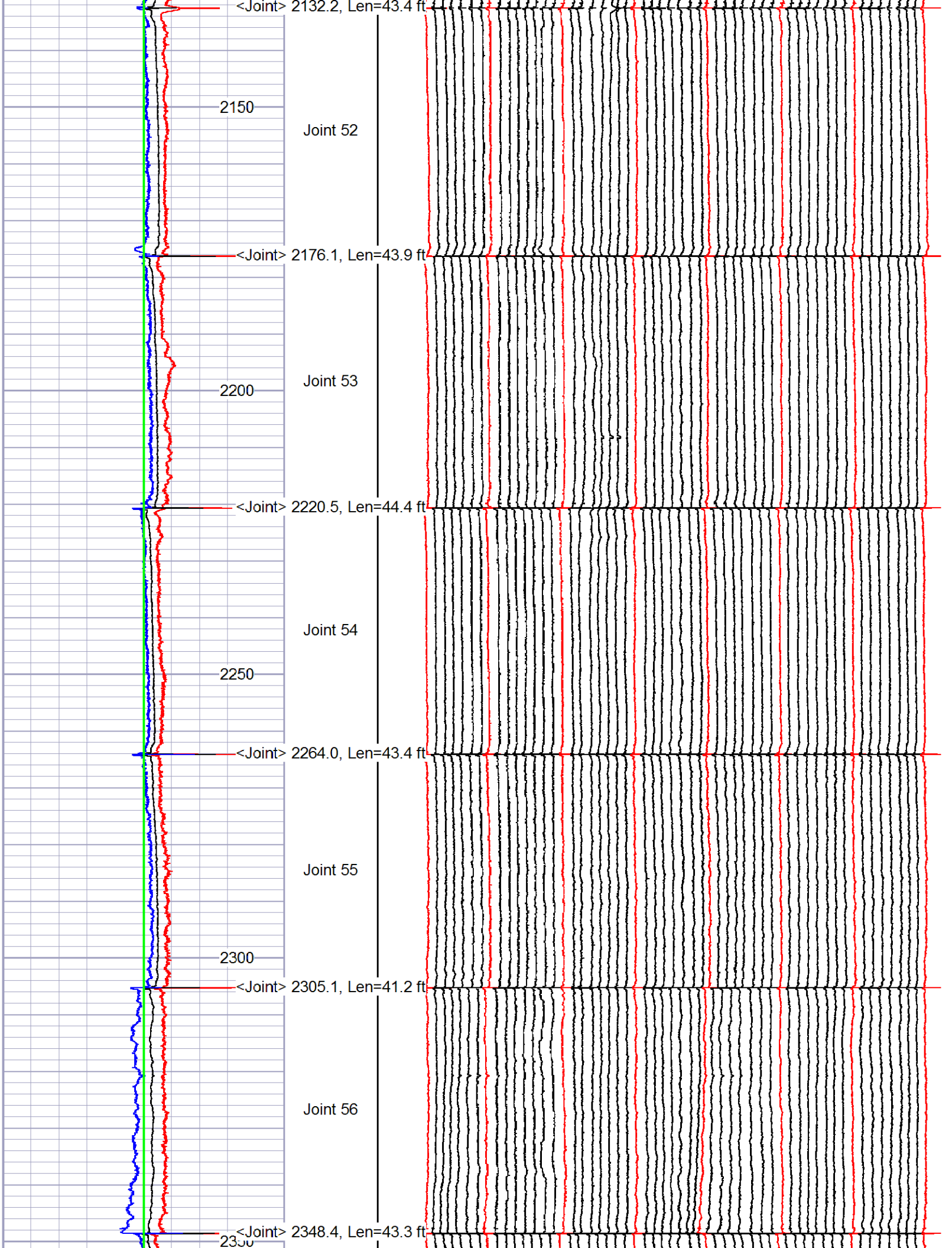
2050
Joint 50
<Joint> 2088.8, Len=43.3 ft
2100
Joint 51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2200
Joint 53
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Joint 54
2250
<Joint> 2264.0, Len=43.4 ft
Joint 55
2300
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Joint 56
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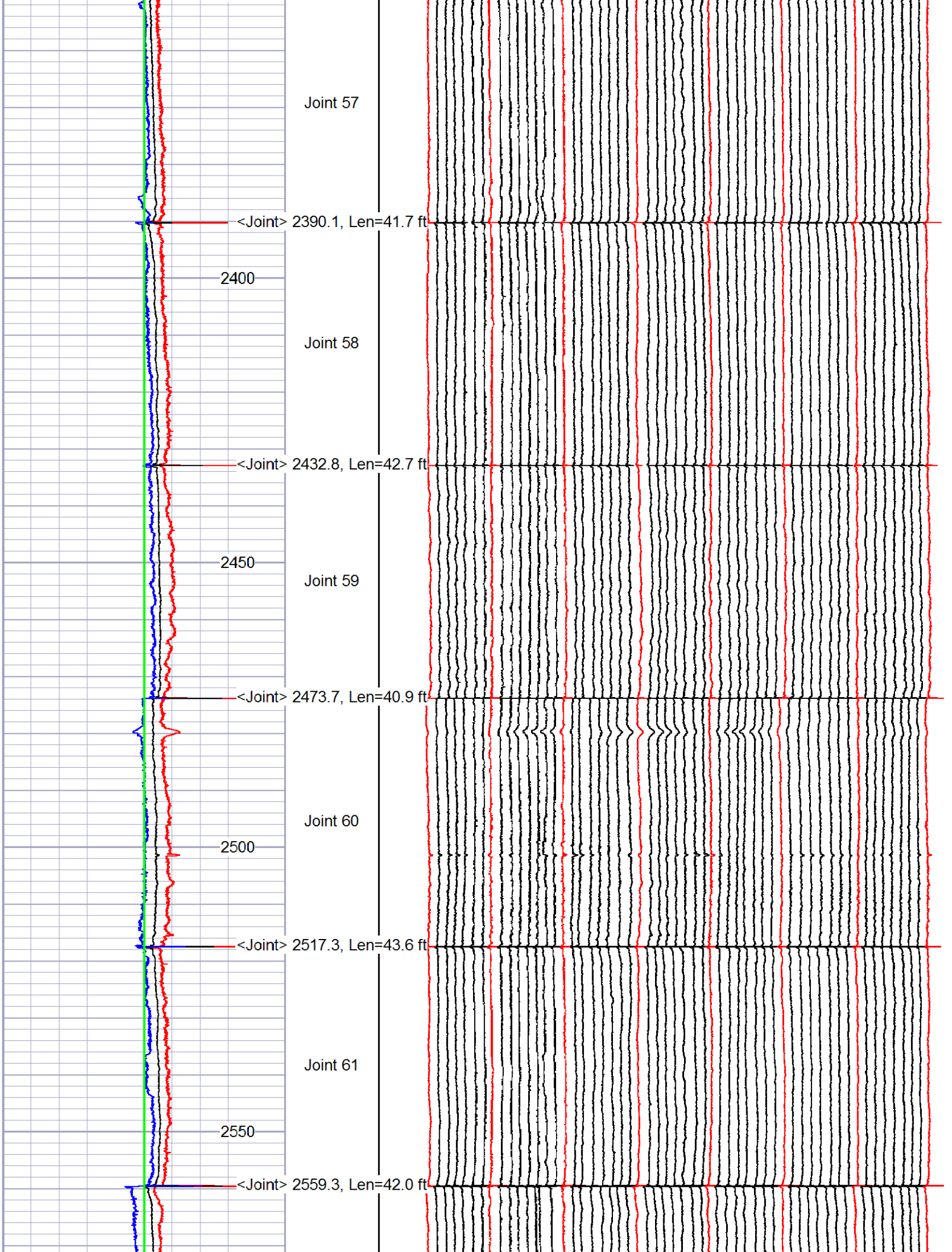
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Joint 58
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2450
Joint 59
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Joint 60
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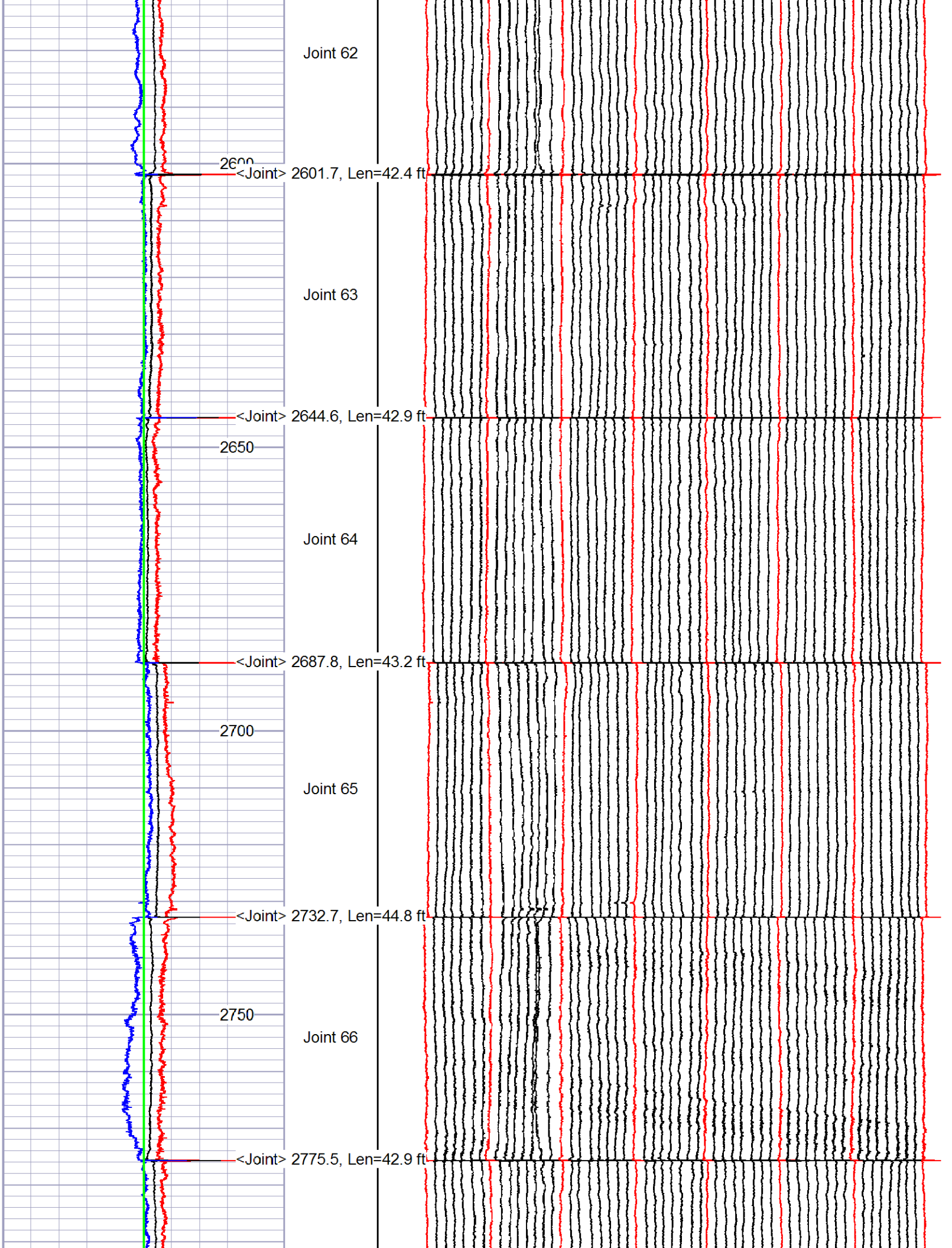
Joint 61
2550
<Joint> 2559.3, Len=42.0 ft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2600
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Joint 63
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2650
Joint 64
<Joint> 2687.8, Len=43.2 ft
2700
Joint 65
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2750
Joint 66
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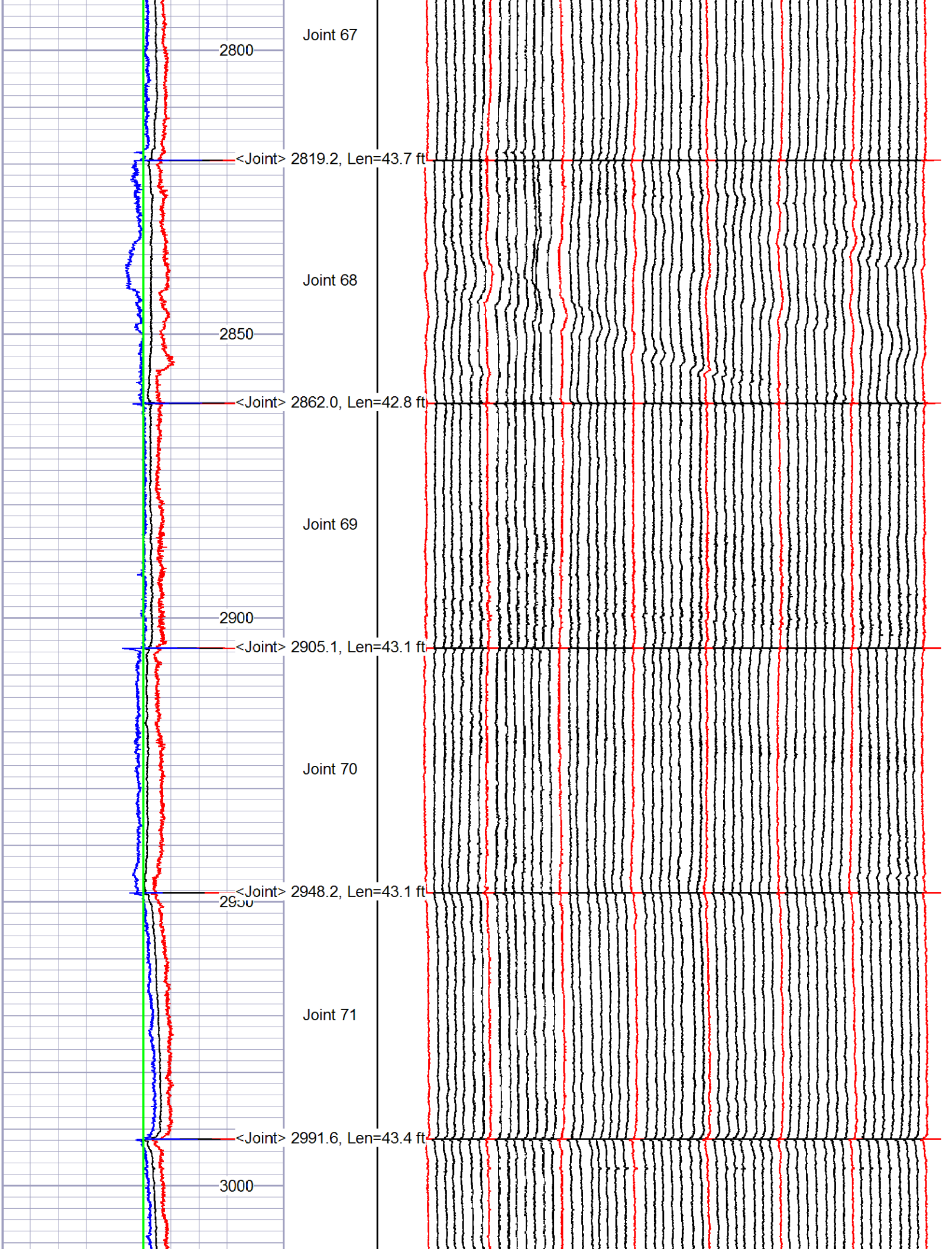
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2800
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Joint 68
2850
<Joint> 2862.0, Len=42.8 ft
Joint 69
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Joint 71
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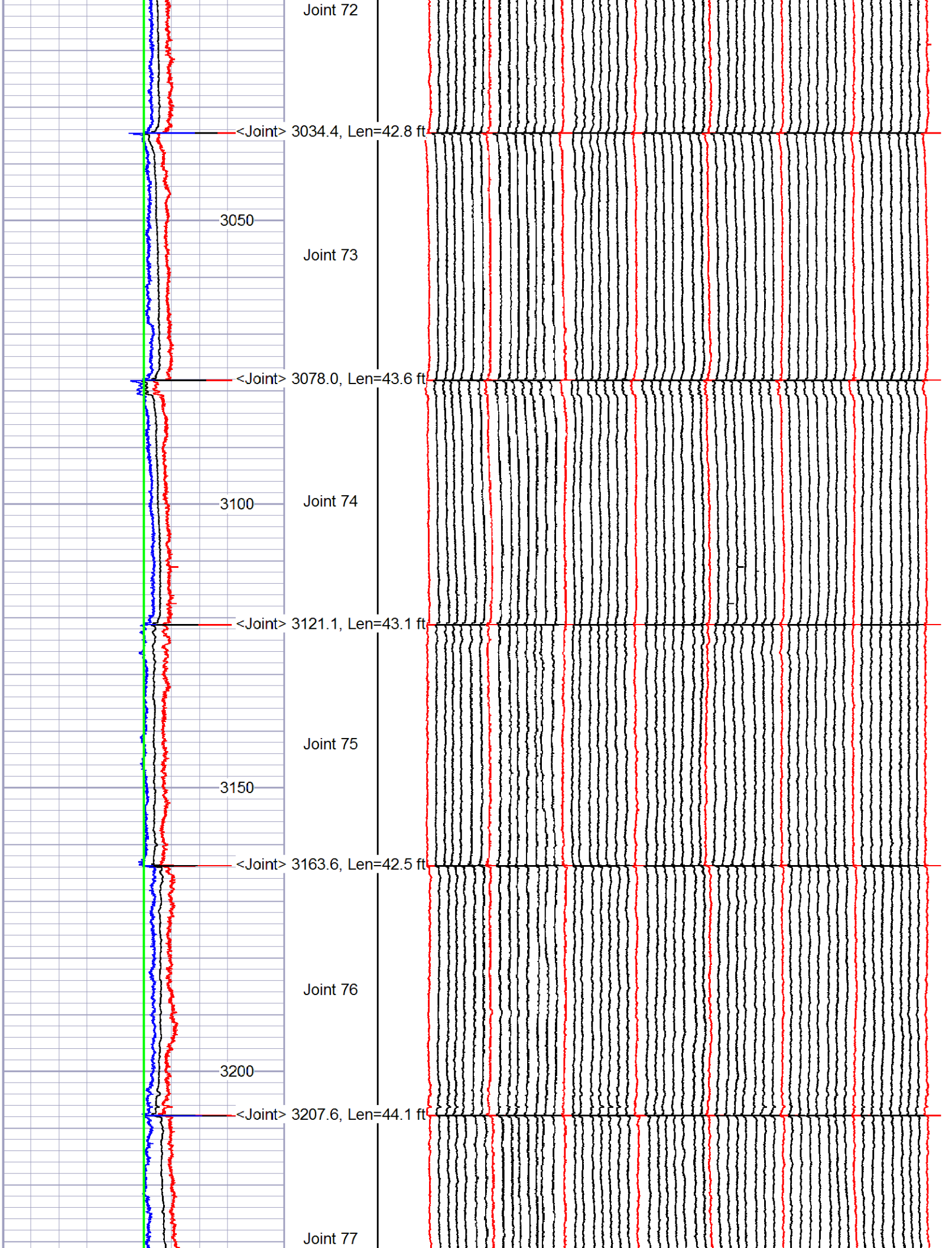
3000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Joint 73
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Joint 74
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Joint 75
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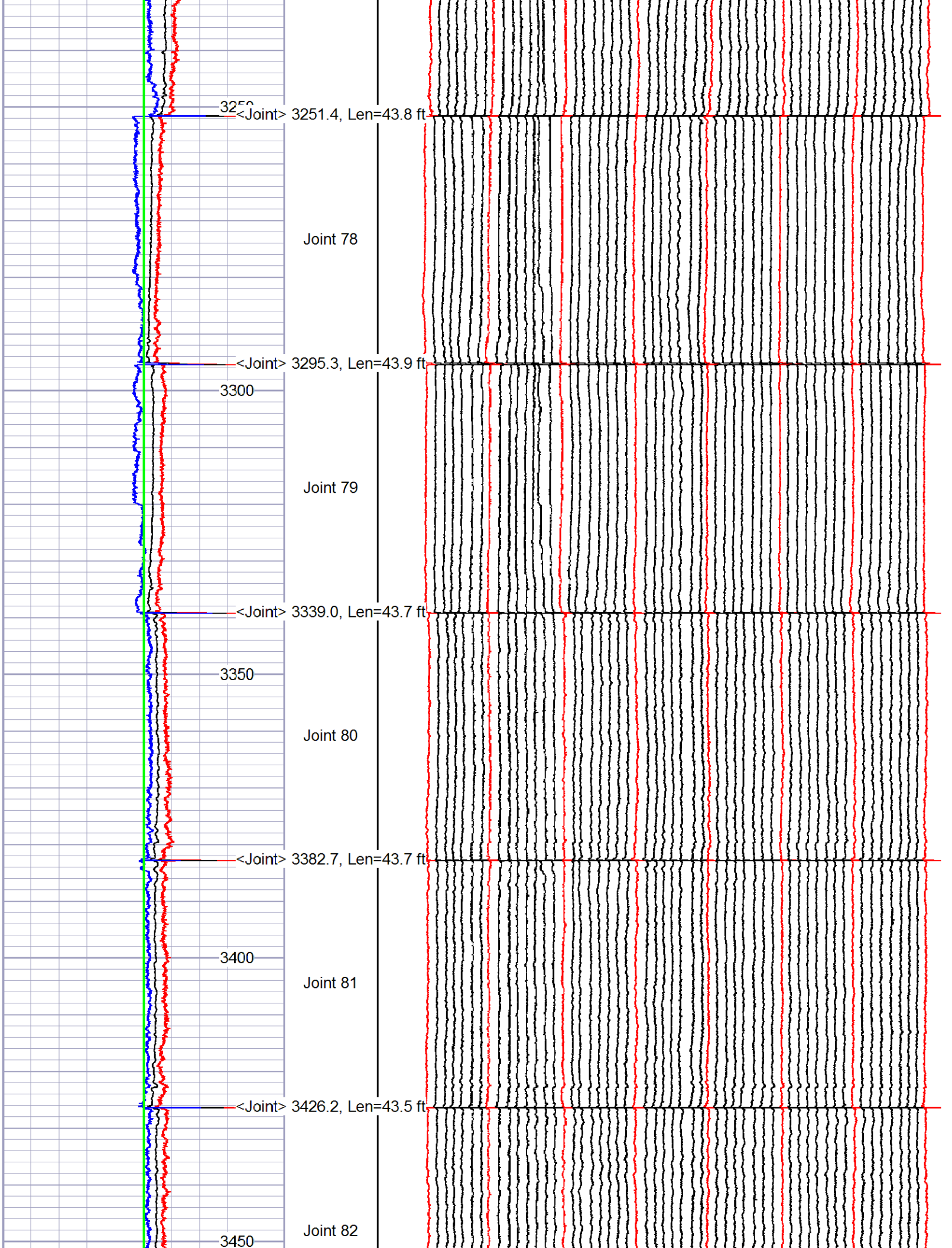
Joint 76
3200
<Joint> 3207.6, Len=44.1 ft
Joint 77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Joint 78
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Joint 79
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Joint 80
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Joint 81
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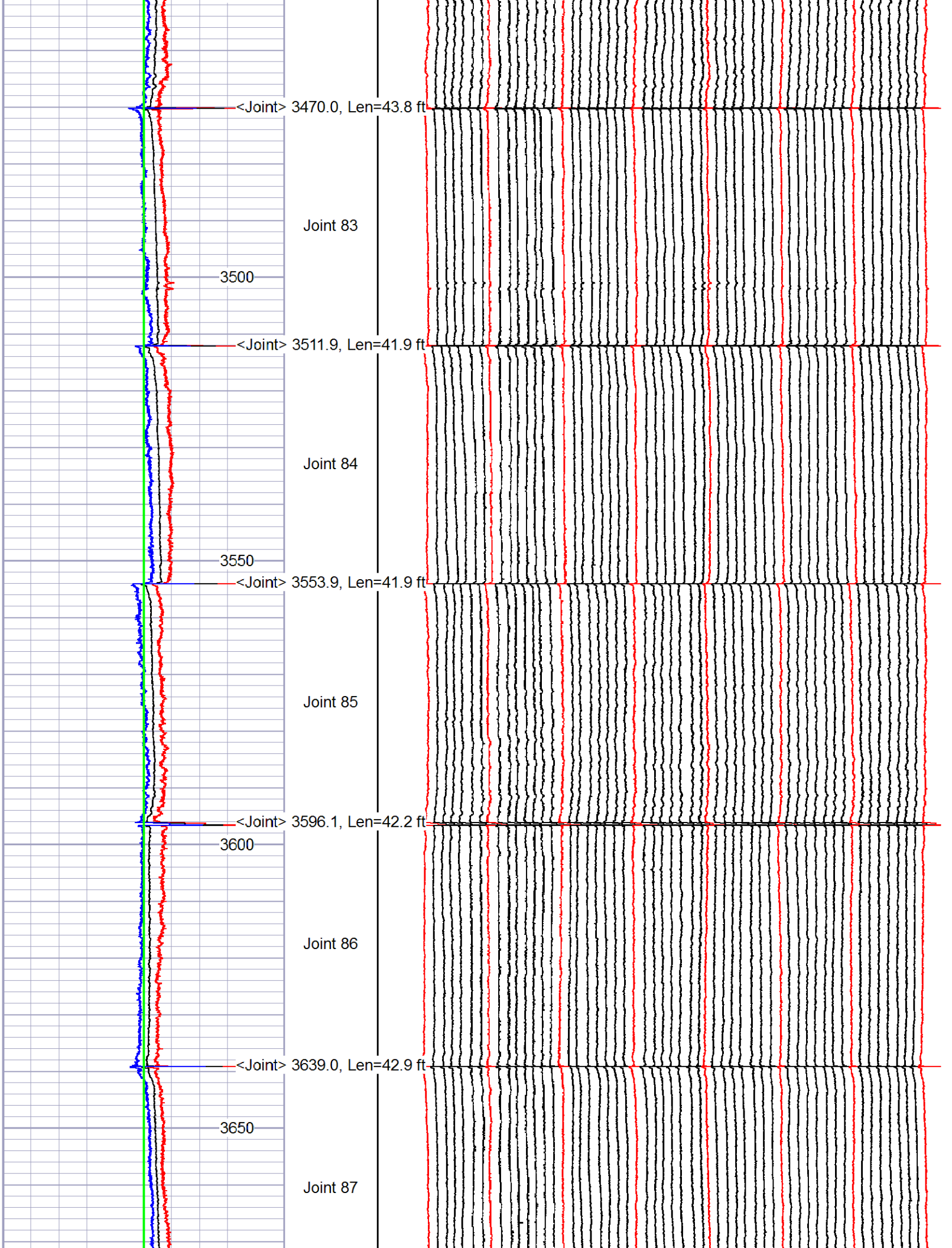
Joint 82
3450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Joint 83
3500
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Joint 84
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Joint 85
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Joint 86
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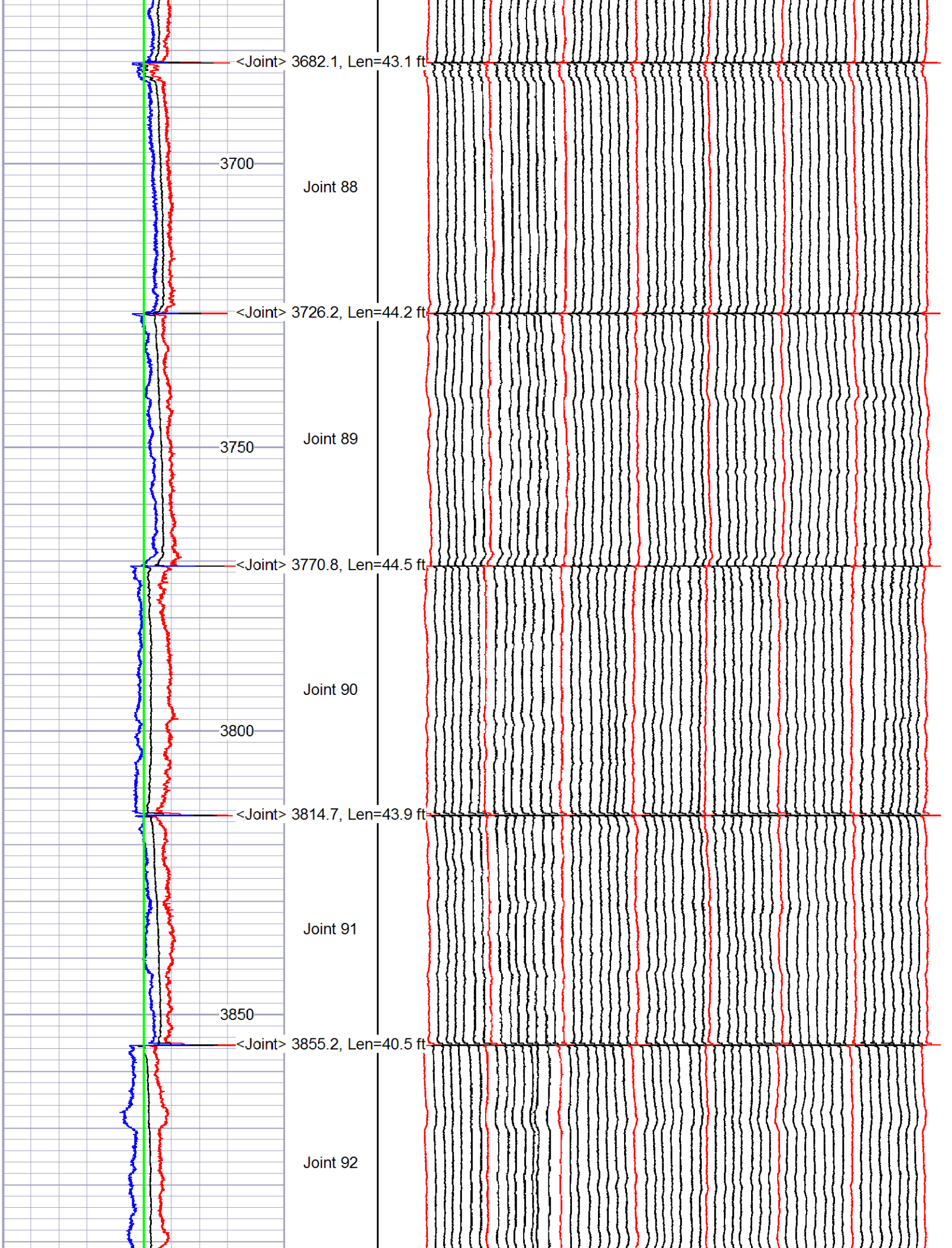
3650
Joint 87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3700
Joint 88
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3750
Joint 89
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Joint 90
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Joint 91
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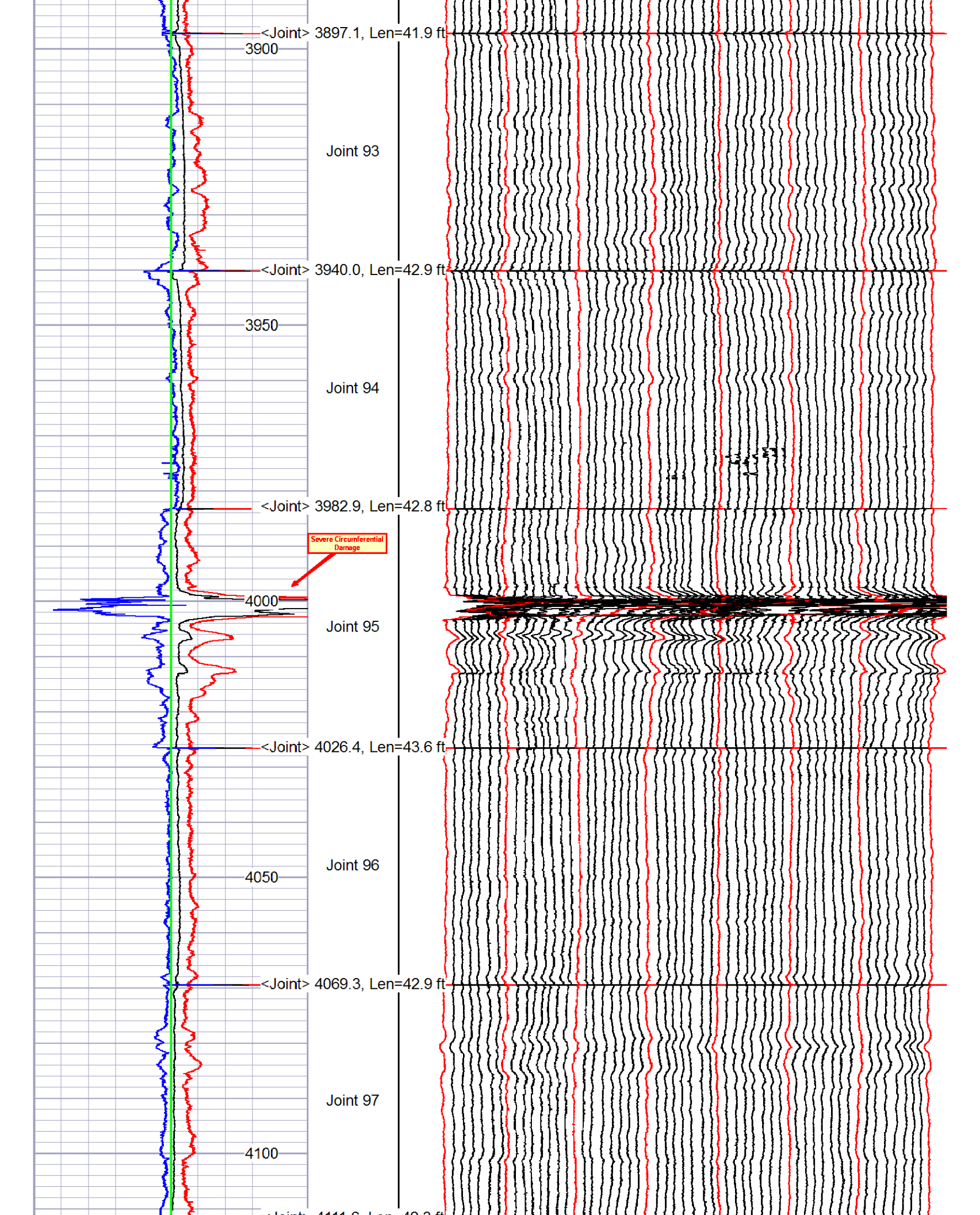
Joint 92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3900
Joint 93
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3950
Joint 94
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Severe Circumferential Damage
4000
Joint 95
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Joint 96
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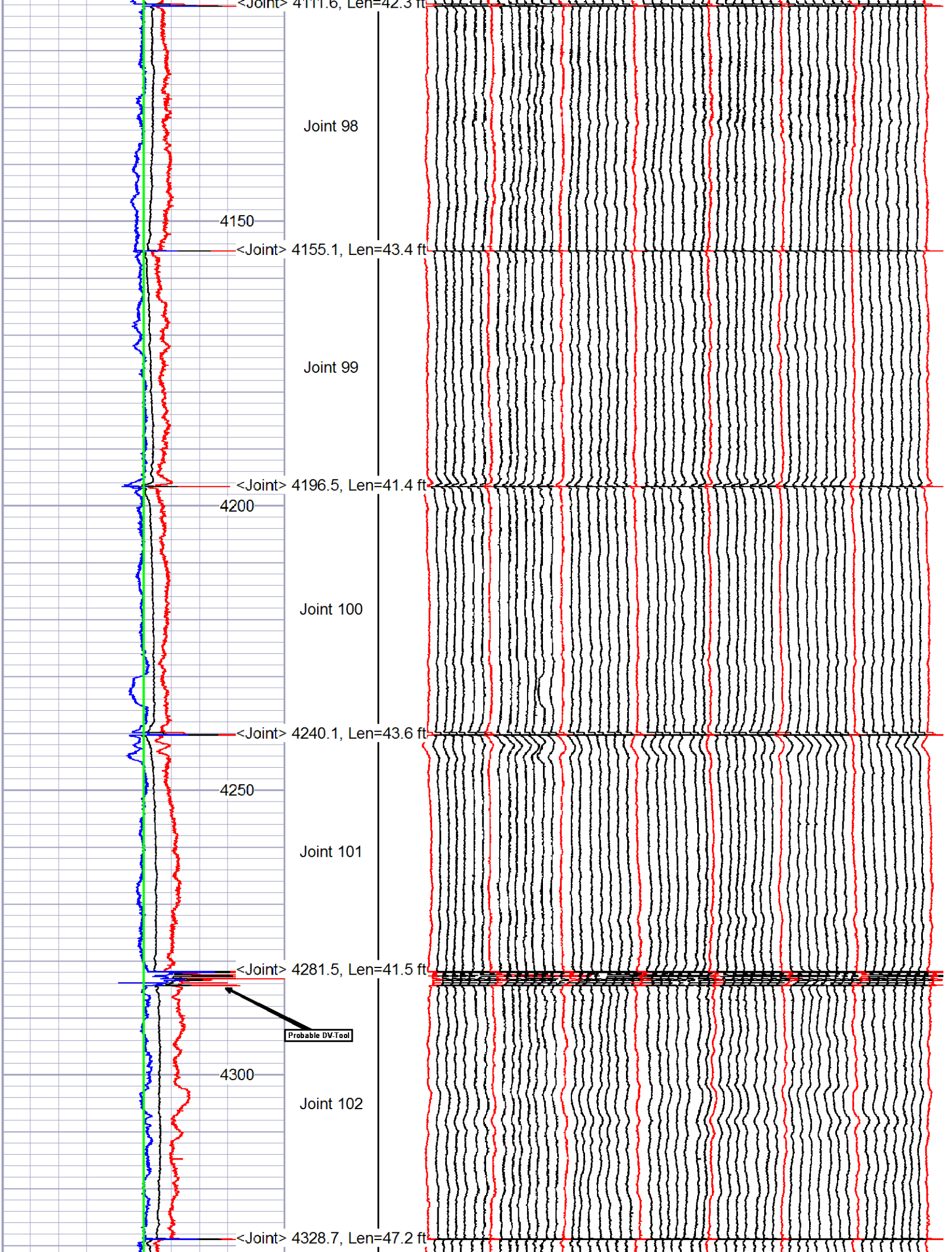
Joint 97
4100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Joint 98
4150
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Joint 99
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4200
Joint 100
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4250
Joint 101
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Probable DV-Tool
4300
Joint 102
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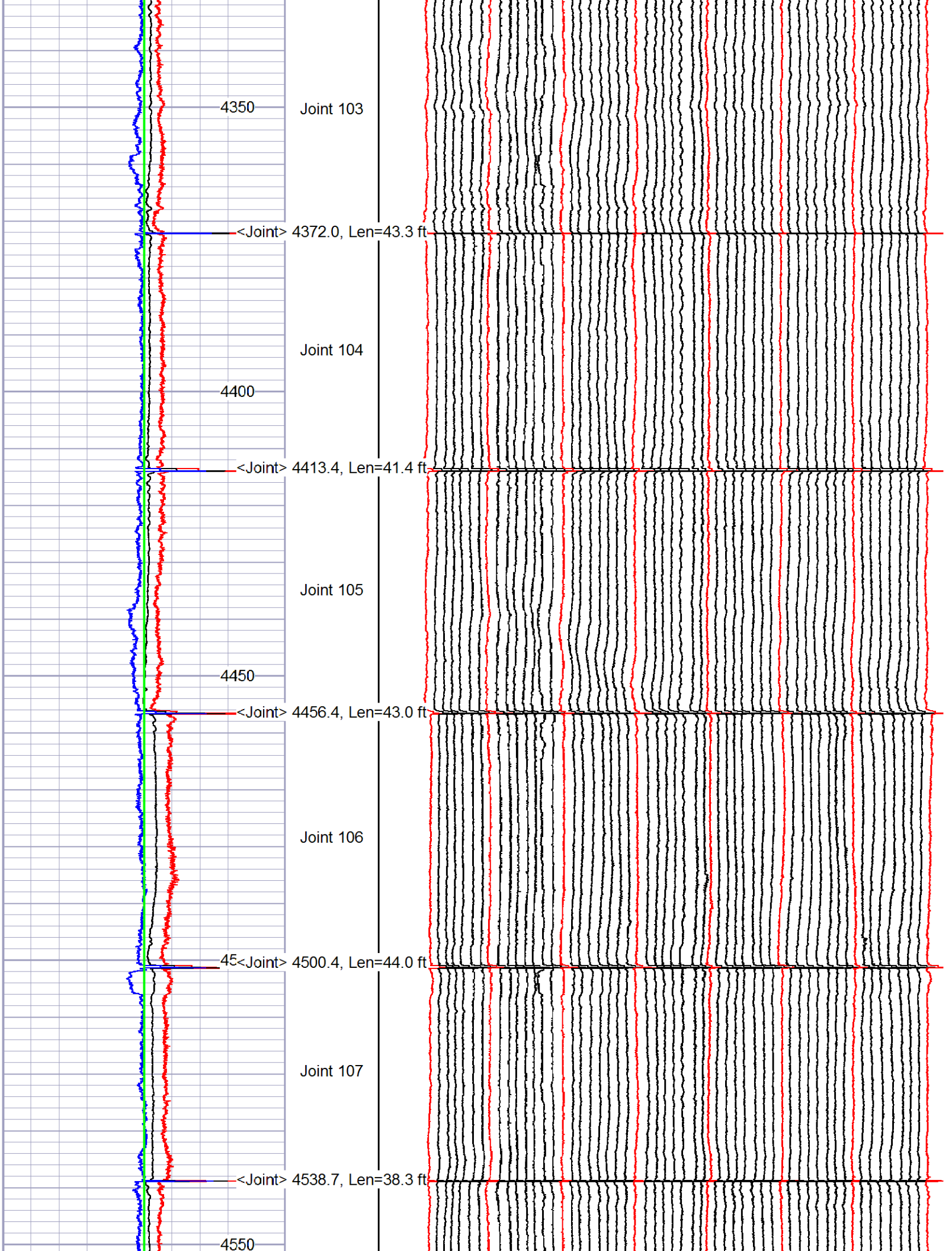
4350
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Joint 104
4400
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Joint 105
4450
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Joint 106
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Joint 107
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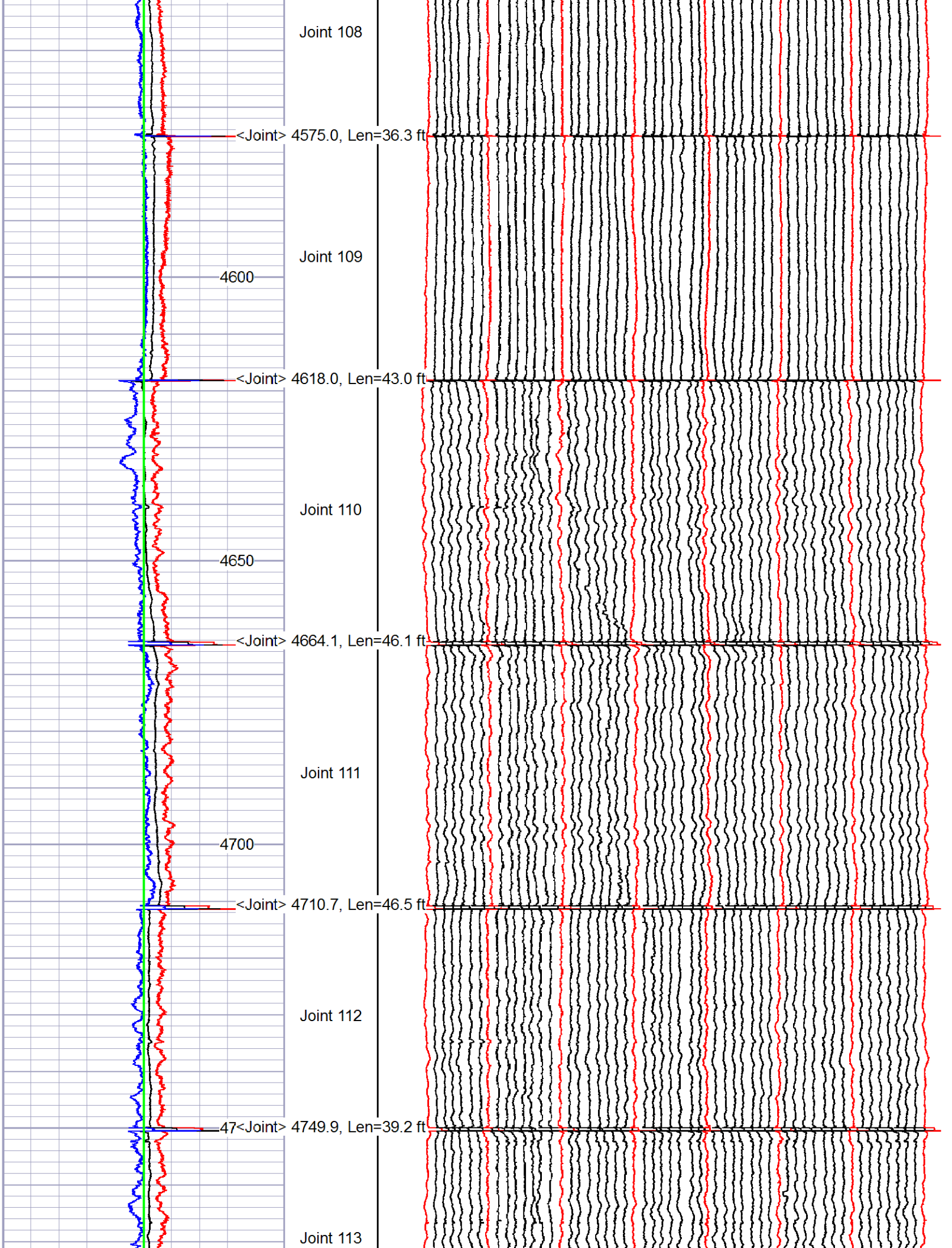
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Joint 109
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Joint 110
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<Joint> 4664.1, Len=46.1 ft
Joint 111
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Joint 112
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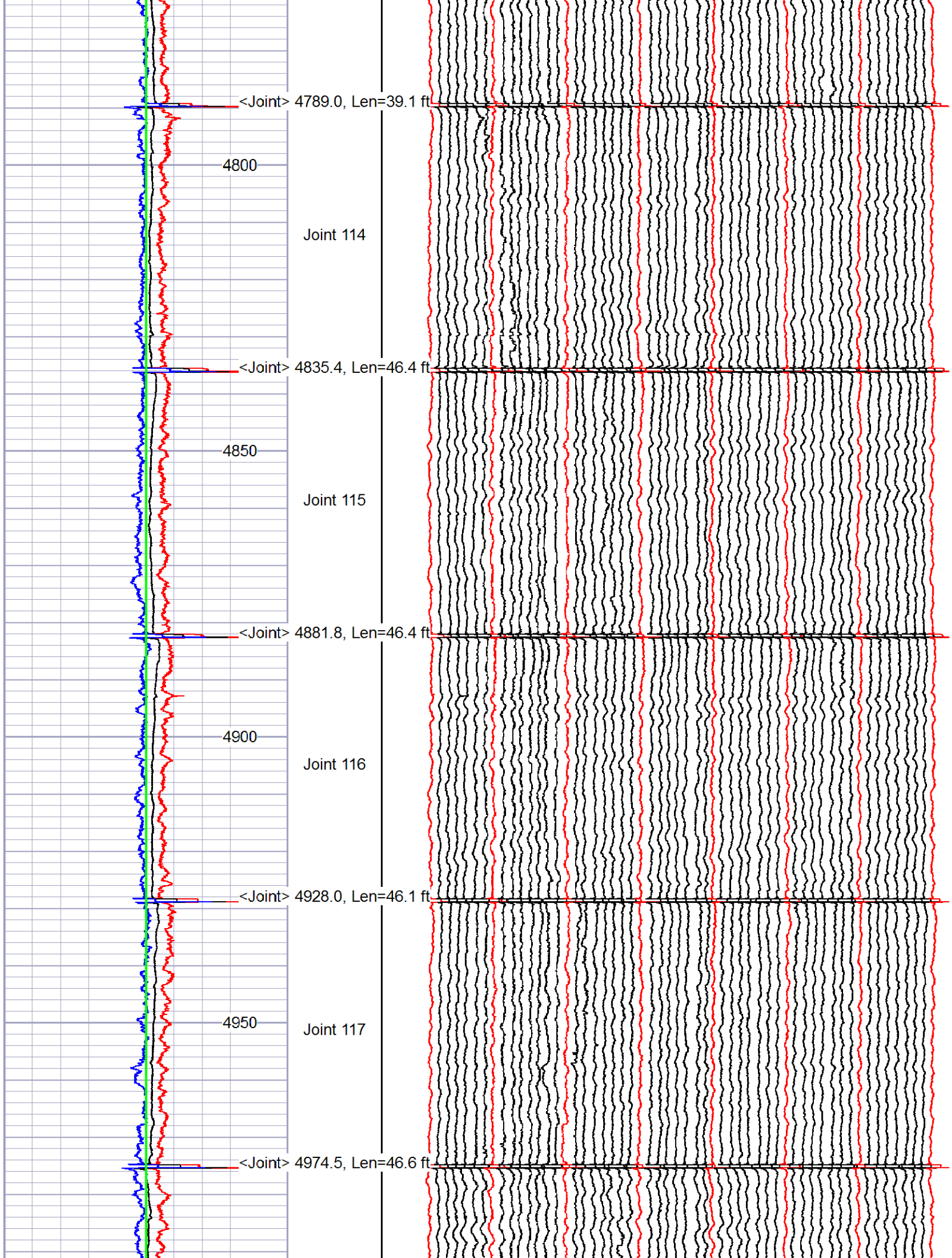
Joint 113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Joint 115
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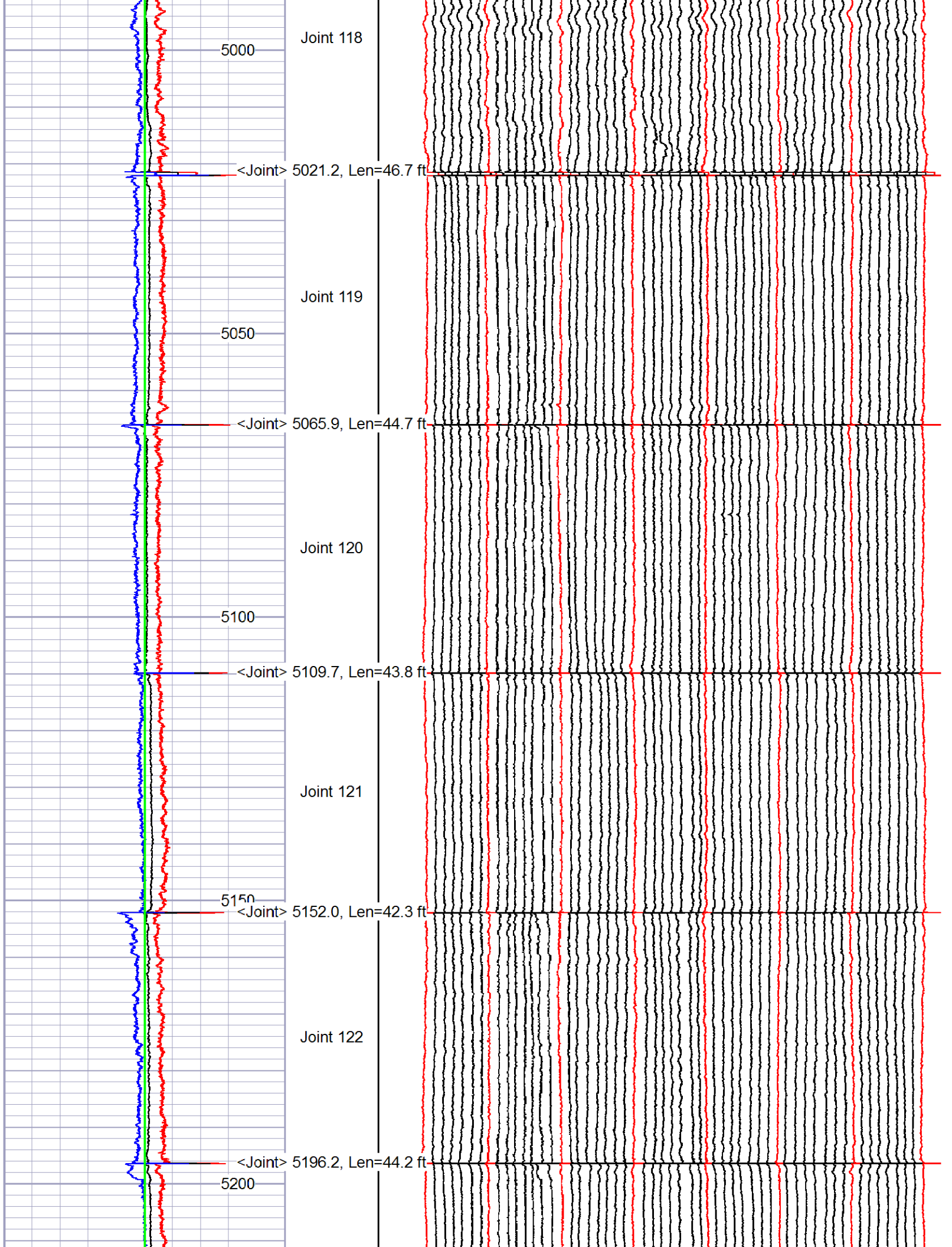
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Joint 119
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Joint 120
5100
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Joint 121
5150
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Joint 122
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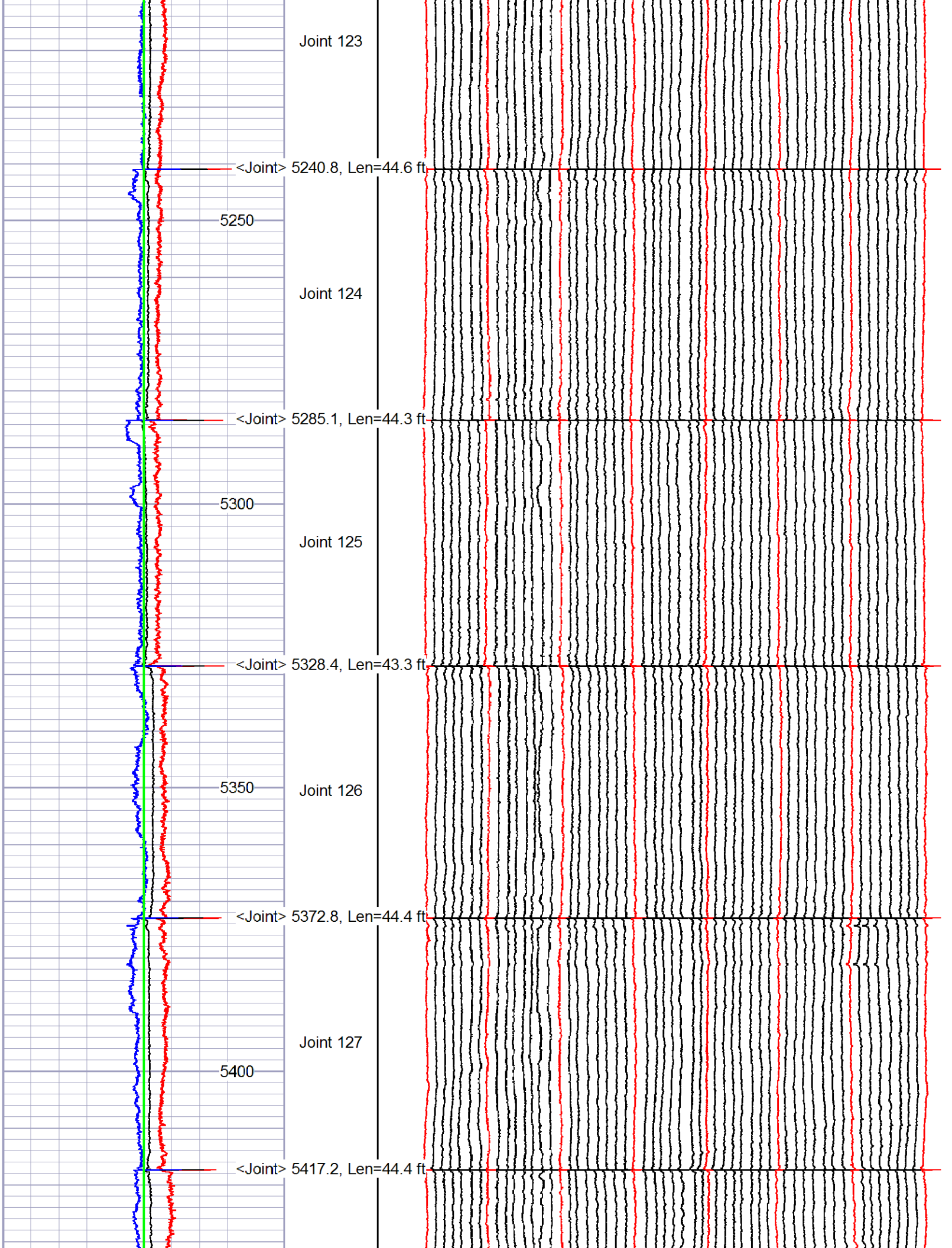
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Joint 125
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Joint 126
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Joint 127
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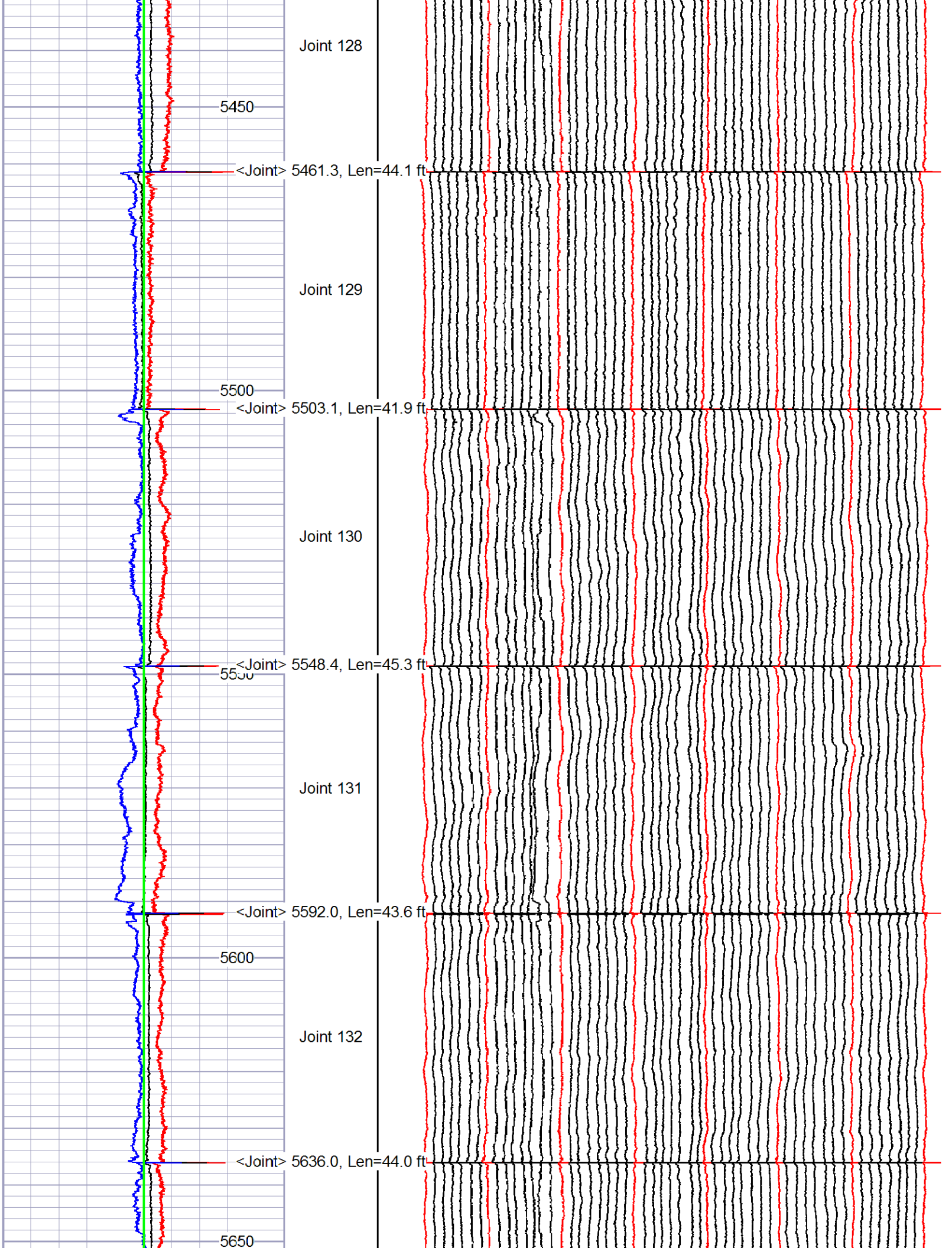
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Joint 129
5500
<Joint> 5503.1, Len=41.9 ft
Joint 130
<Joint> 5548.4, Len=45.3 ft
Joint 131
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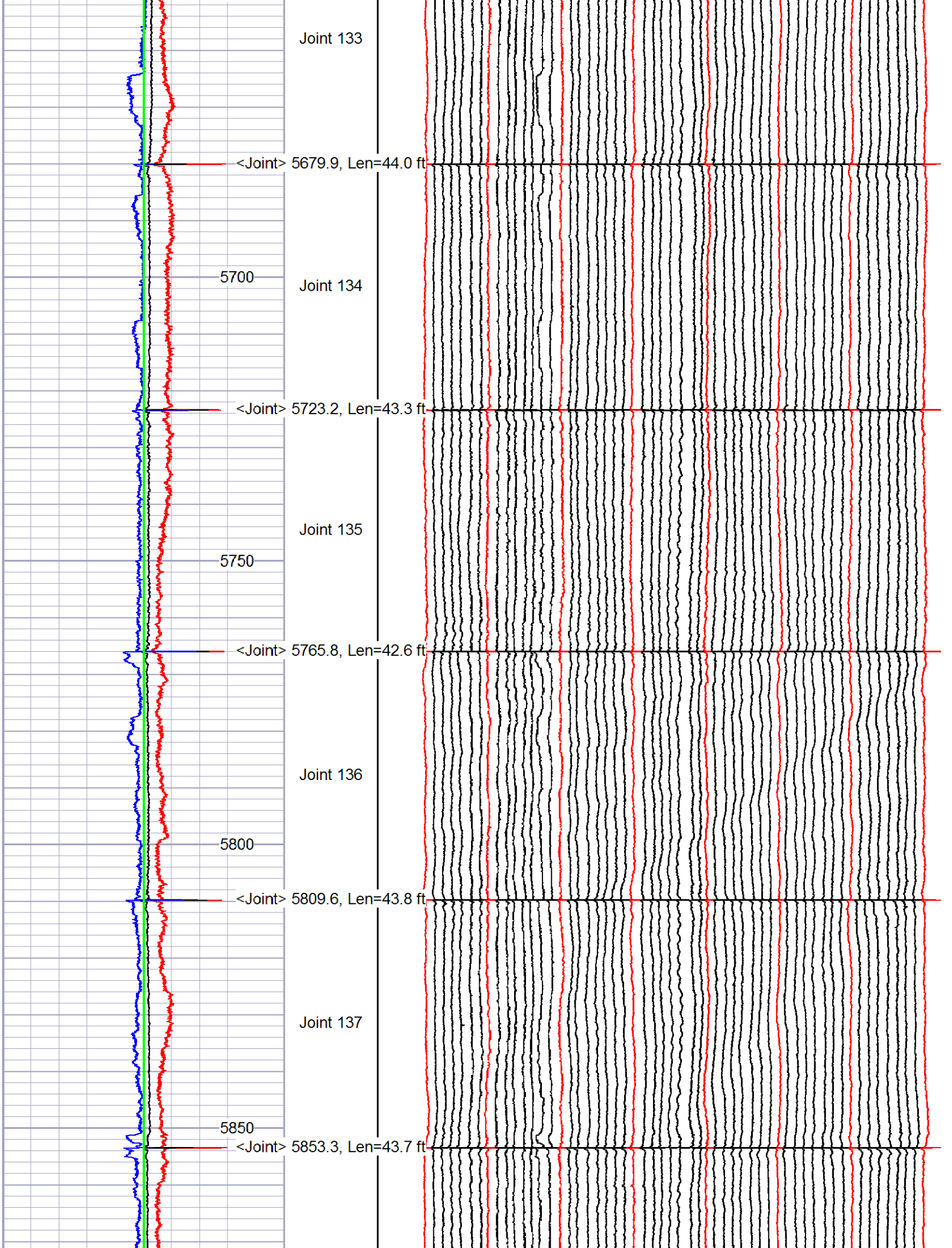
5600
Joint 132
<Joint> 5636.0, Len=44.0 ft
5650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5700
Joint 134
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Joint 135
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<Joint> 5765.8, Len=42.6 ft
Joint 136
5800
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Joint 137
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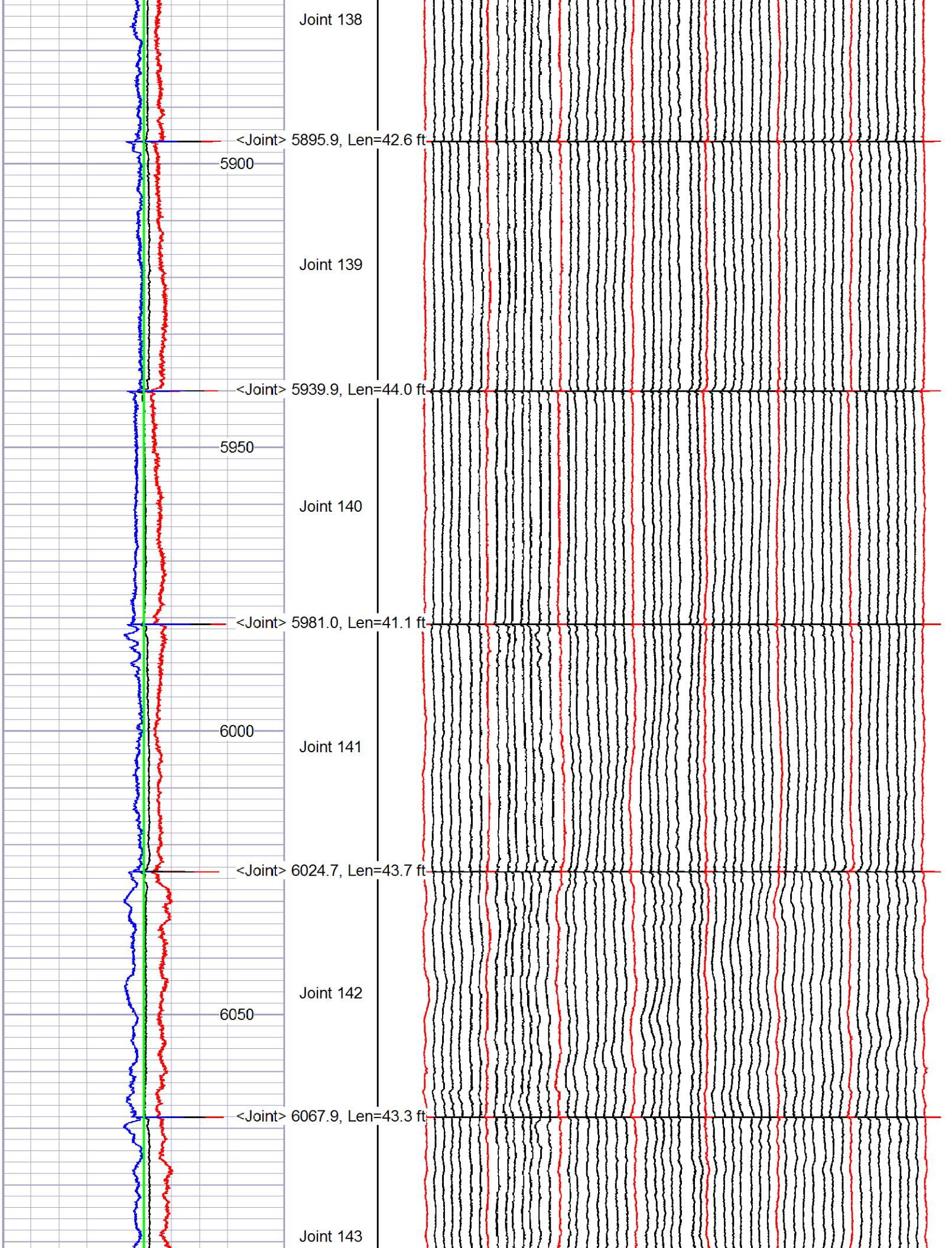
<Joint> 5853.3, Len=43.7 ft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5900
Joint 139
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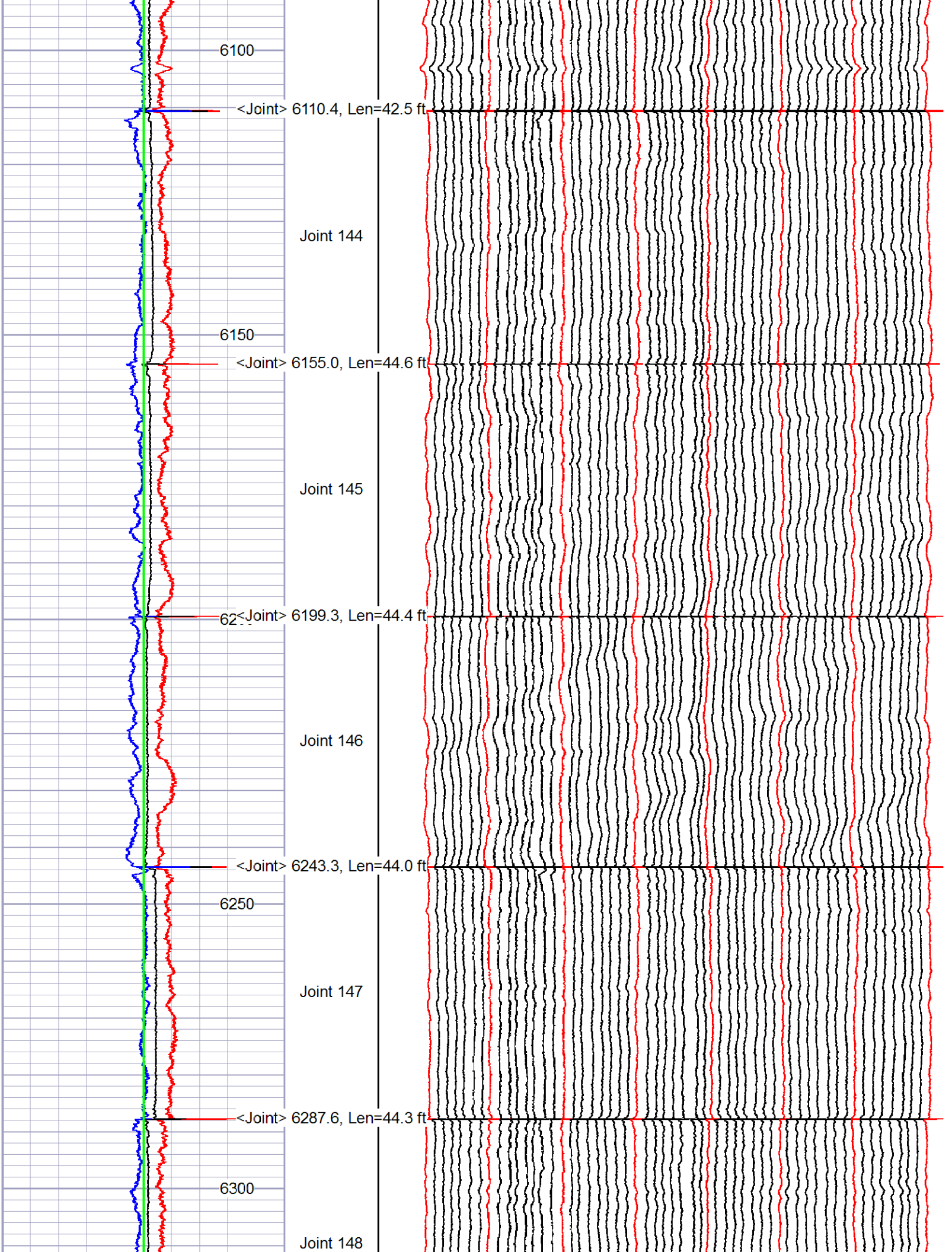
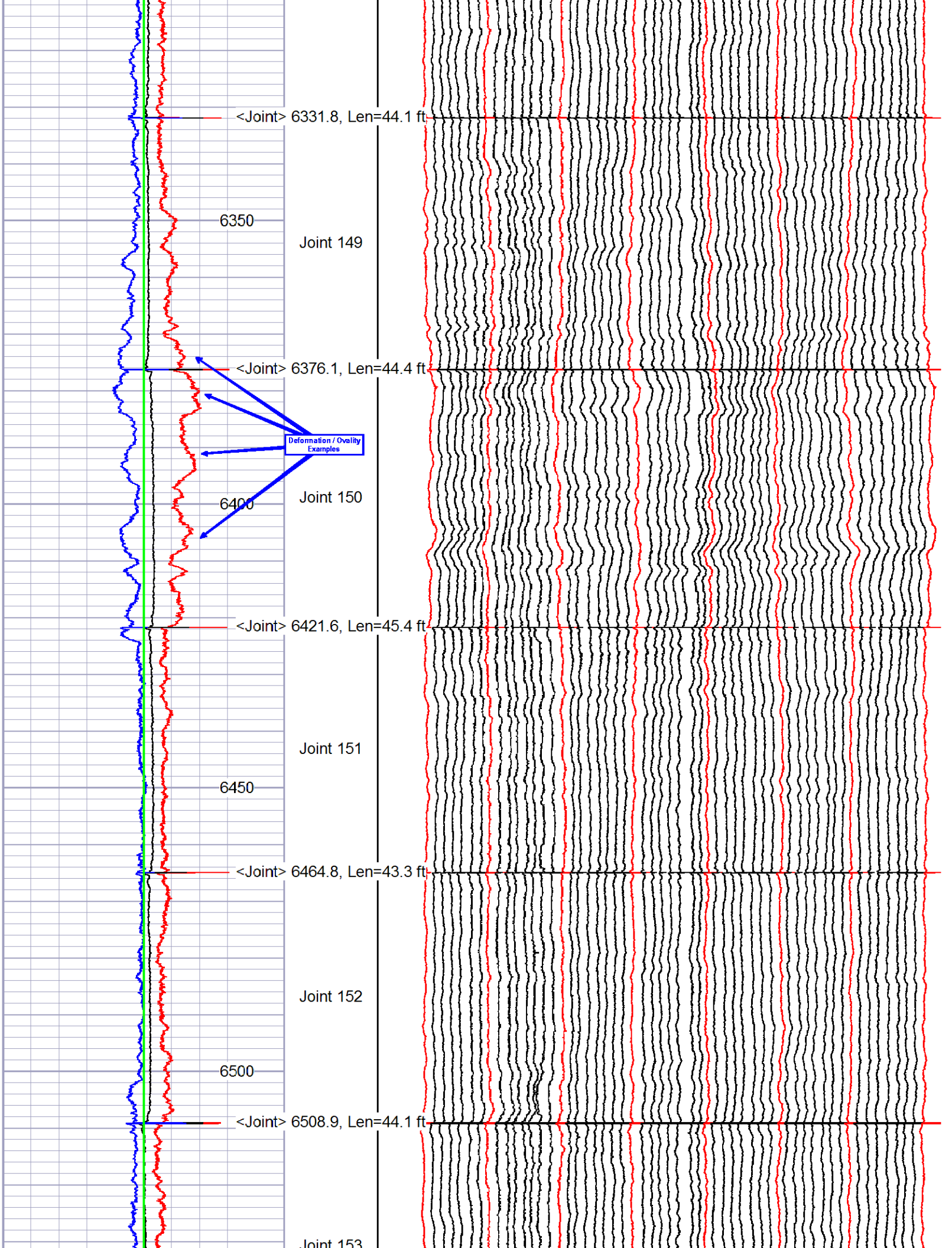
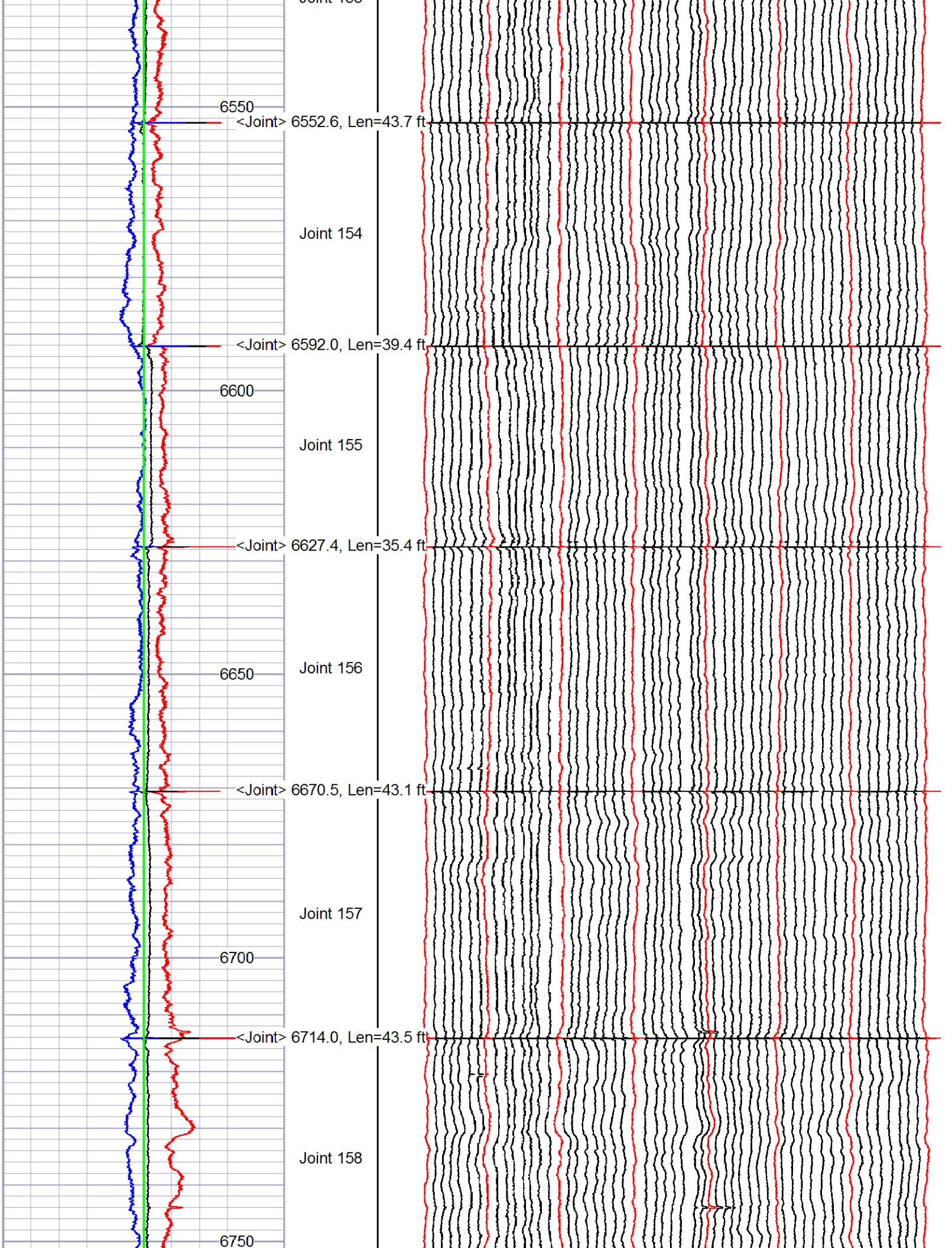
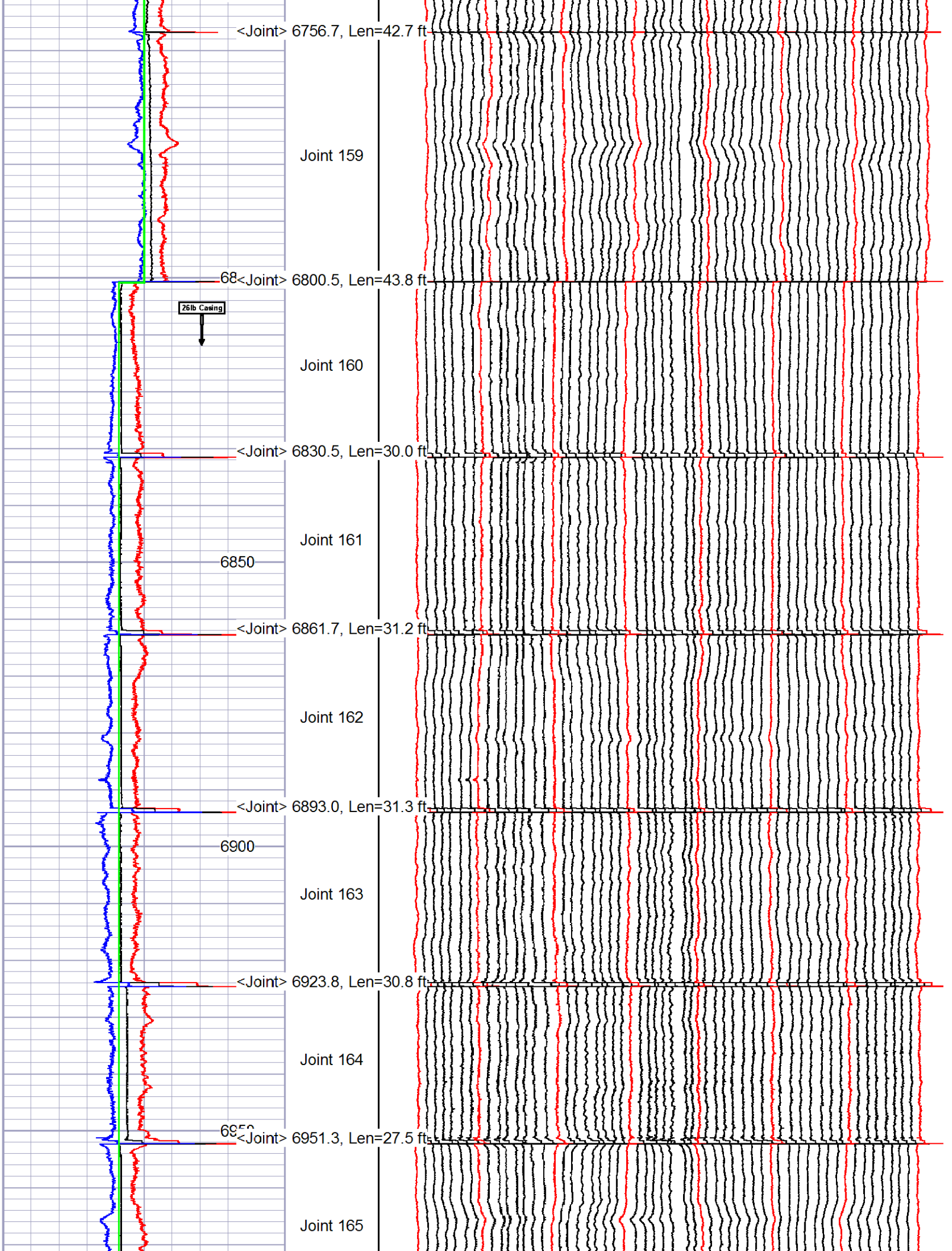
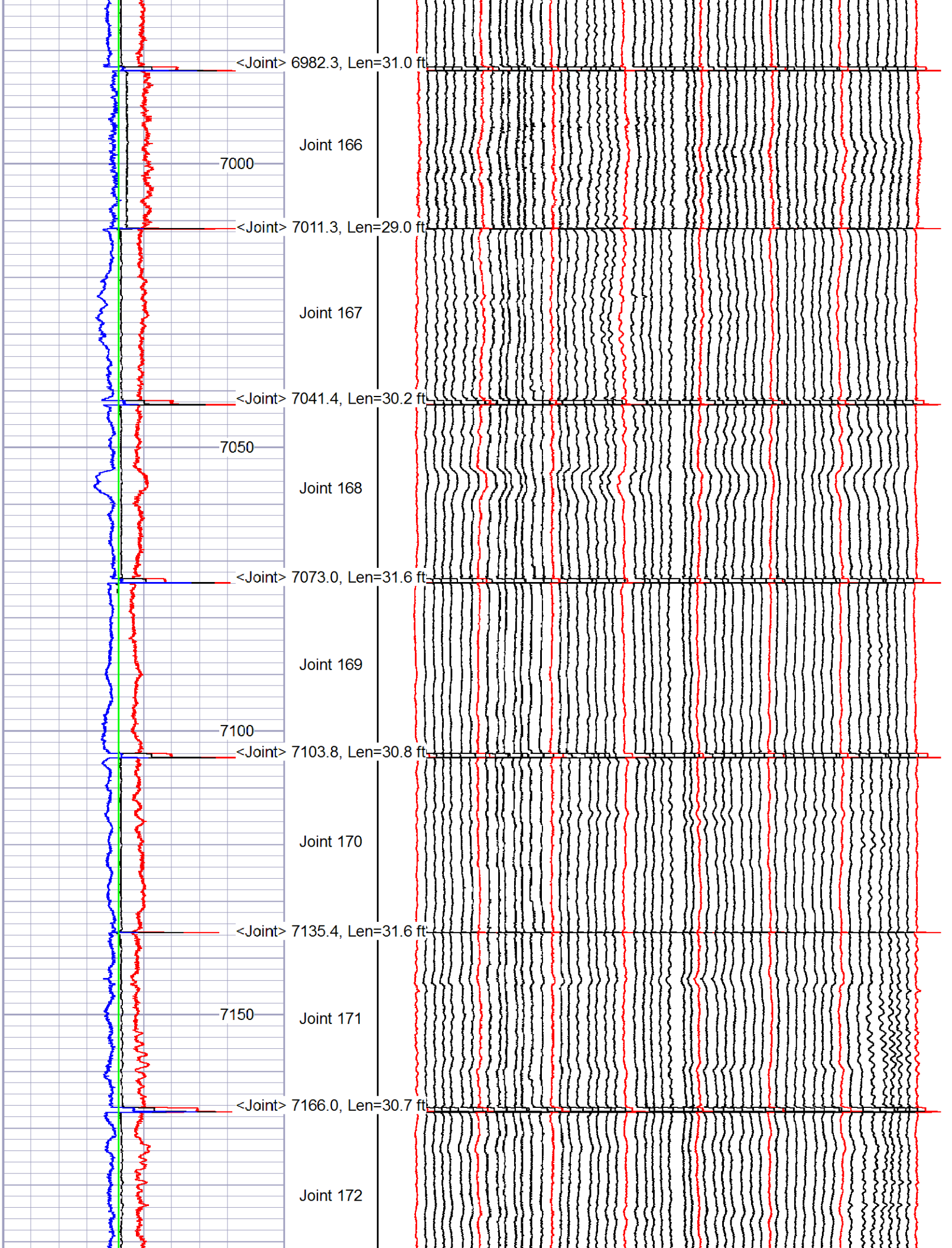
5950
Joint 140
<Joint> 5981.0, Len=41.1 ft
6000
Joint 141
<Joint> 6024.7, Len=43.7 ft
Joint 142
6050
<Joint> 6067.9, Len=43.3 ft
Joint 143

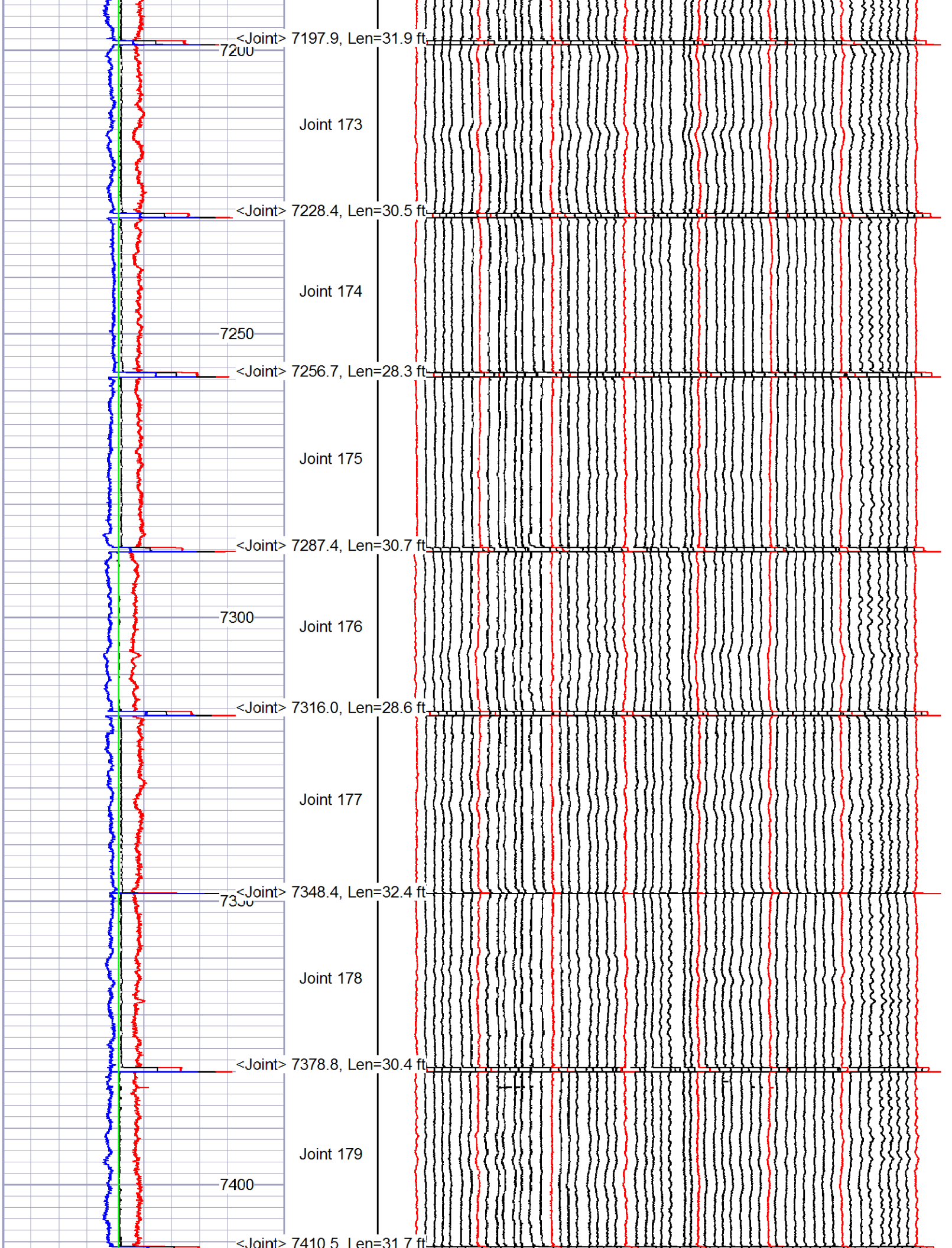

6100
<Joint> 6110.4, Len=42.5 ft
Joint 144
6150
<Joint> 6155.0, Len=44.6 ft
Joint 145
<Joint> 6199.3, Len=44.4 ft
Joint 146
<Joint> 6243.3, Len=44.0 ft
6250
Joint 147
<Joint> 6287.6, Len=44.3 ft
6300
Joint 148

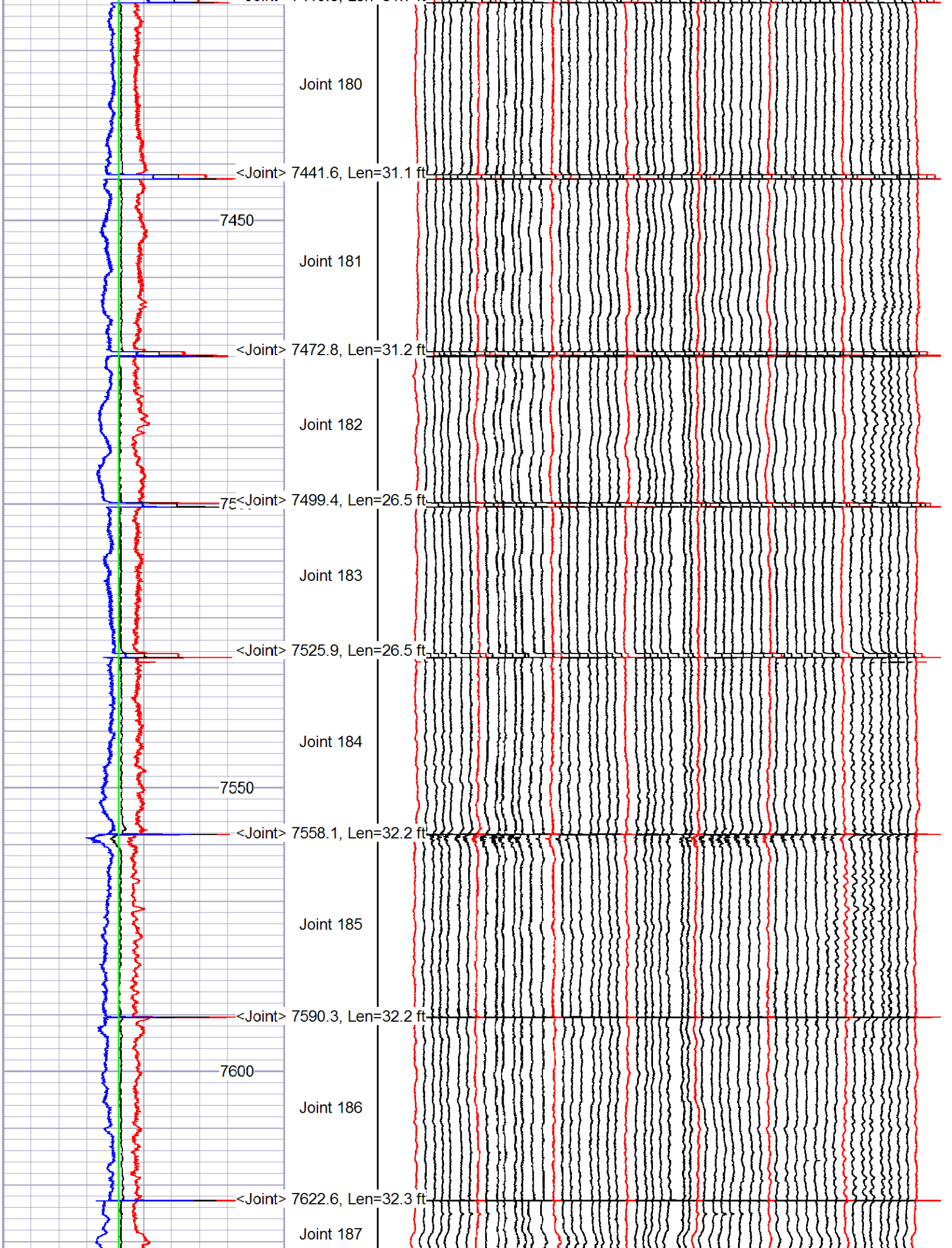

<Joint> 6331.8, Len=44.1 ft
6350
Joint 149
<Joint> 6376.1, Len=44.4 ft
Deformation / Ovality Examples
6400
Joint 150
<Joint> 6421.6, Len=45.4 ft
Joint 151
6450
<Joint> 6464.8, Len=43.3 ft
Joint 152
6500
<Joint> 6508.9, Len=44.1 ft
Joint 153

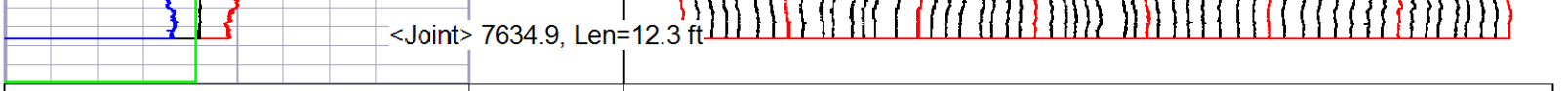

6550
<Joint> 6552.6, Len=43.7 ft
Joint 154
<Joint> 6592.0, Len=39.4 ft
6600
Joint 155
<Joint> 6627.4, Len=35.4 ft
6650
Joint 156
<Joint> 6670.5, Len=43.1 ft
Joint 157
6700
<Joint> 6714.0, Len=43.5 ft
Joint 158
6750


<Joint> 6756.7, Len=42.7 ft
Joint 159
68
<Joint> 6800.5, Len=43.8 ft
26lb Casing
Joint 160
<Joint> 6830.5, Len=30.0 ft
Joint 161
6850
<Joint> 6861.7, Len=31.2 ft
Joint 162
<Joint> 6893.0, Len=31.3 ft
6900
Joint 163
<Joint> 6923.8, Len=30.8 ft
Joint 164
<Joint> 6951.3, Len=27.5 ft
Joint 165


<Joint> 6982.3, Len=31.0 ft
Joint 166
7000
<Joint> 7011.3, Len=29.0 ft
Joint 167
<Joint> 7041.4, Len=30.2 ft
7050
Joint 168
<Joint> 7073.0, Len=31.6 ft
Joint 169
7100
<Joint> 7103.8, Len=30.8 ft
Joint 170
<Joint> 7135.4, Len=31.6 ft
7150
Joint 171
<Joint> 7166.0, Len=30.7 ft
Joint 172


<Joint> 7197.9, Len=31.9 ft
7200
Joint 173
<Joint> 7228.4, Len=30.5 ft
Joint 174
7250
<Joint> 7256.7, Len=28.3 ft
Joint 175
<Joint> 7287.4, Len=30.7 ft
7300
Joint 176
<Joint> 7316.0, Len=28.6 ft
Joint 177
<Joint> 7348.4, Len=32.4 ft
Joint 178
<Joint> 7378.8, Len=30.4 ft
Joint 179
7400
<Joint> 7410.5, Len=31.7 ft


Joint 180
<Joint> 7441.6, Len=31.1 ft
7450
Joint 181
<Joint> 7472.8, Len=31.2 ft
Joint 182
<Joint> 7499.4, Len=26.5 ft
Joint 183
<Joint> 7525.9, Len=26.5 ft
Joint 184
7550
<Joint> 7558.1, Len=32.2 ft
Joint 185
<Joint> 7590.3, Len=32.2 ft
7600
Joint 186
<Joint> 7622.6, Len=32.3 ft
Joint 187




| | | | | | |
|---|---|---|---|---|---|
| 5.866 | Maximum ID (in) | 6.866 | 2.933 | 56 FINGER TRACE (in) | 6.033 |
| 5.866 | Average - ID (in) | 6.866 | | | |
| 5.866 | Minimum - ID (in) | 6.866 | | | |
| 5.866 | Nominal ID (in) | 6.866 | | | |