BAKER HUGHES

56-ARM CALIPER LOG

Company SOUTHERN CALIFORNIA GAS COMPANY
Well STANDARD SESNON 4B
Field ALISO CANYON
County LOS ANGELES
State CALIFORNIA

Company SOUTHERN CALIFORNIA GAS COMPANY

Well STANDARD SESNON 4B

Field ALISO CANYON

County LOS ANGELES **State** CALIFORNIA

Location: API # : 04-037-30460

SEC 29 TWP 3N RGE 16W

Other Services
HRVRT

Permanent Datum	GL	Elevation	2888'
Log Measured From	KB - 22.5 FT AGL		
Drilling Measured From	KB - 22.5 FT AGL		

Elevation
K.B. 3010.5'
D.F.
G.L. 2888'

Date	17 AUG 2016		
Run Number	1		
Depth Driller	10338'		
Depth Logger	8667'		
Bottom Logged Interval	8662'		
Top Log Interval	-18'		
Open Hole Size	N/A		
Type Fluid	KCL		
Density / Viscosity	N/A		
Max. Recorded Temp.	181°F		
Estimated Cement Top	N/A		
Time Well Ready	N/A		
Time Logger on Bottom	N/A		
Equipment Number	4256		
Location	SHAFTER, CA		
Recorded By	B.DEAL		
Witnessed By	T. MCMAHON		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface Casing	13 3/8"	54.5lb	0'	1436'
Production Casing	9 5/8"	47.0lb	0'	8887'
Scab Liner	7"	26.0lb	8695'	9269'
Production Liner	5 1/2"	15.5lb	9156'	9426'
Production Liner	4 1/2"	13.3lb	9426'	10314'

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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

LOG CORRELATED TO SCHLUMBERGER GRNT-CCL 15 AUGUST 2016
N/A DENOTES NOT AVAILABLE

MAIN PASS (5" / 100')

BAKER HUGHES

Database File	c:\users\waakjanl\desktop\incoming\hcal_socal_ss_4b\project\processing\mfc\main_proc.db
Dataset Pathname	main_stat
Presentation Format	56f_hw
Dataset Creation	Mon Aug 22 17:18:19 2016
Charted by	Depth in Feet scaled 1:240

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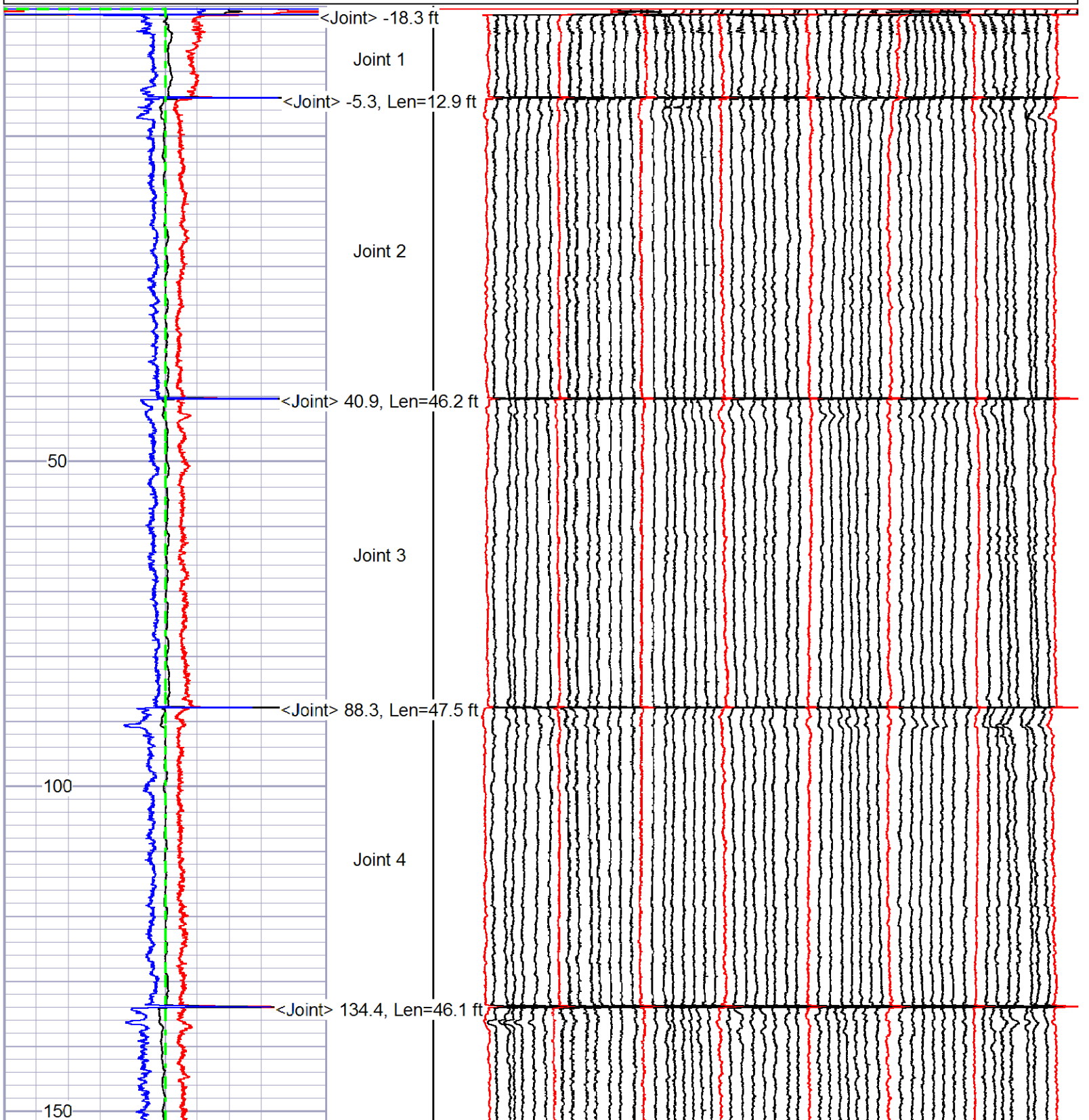
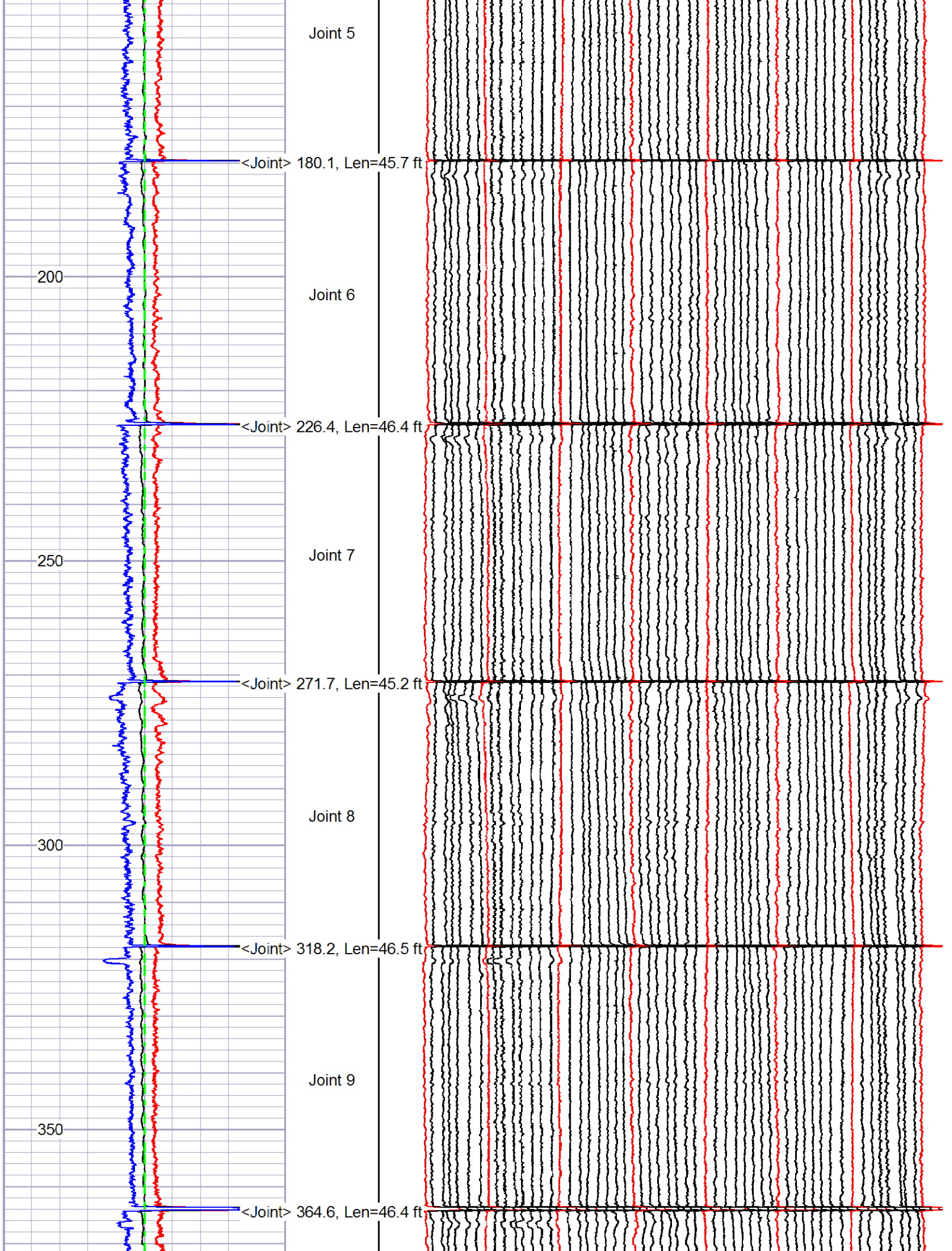
8.255	IDMN (in)	9.255					
8.255	Nominal ID (in)	9.255					

Note: 1" scale for amplification

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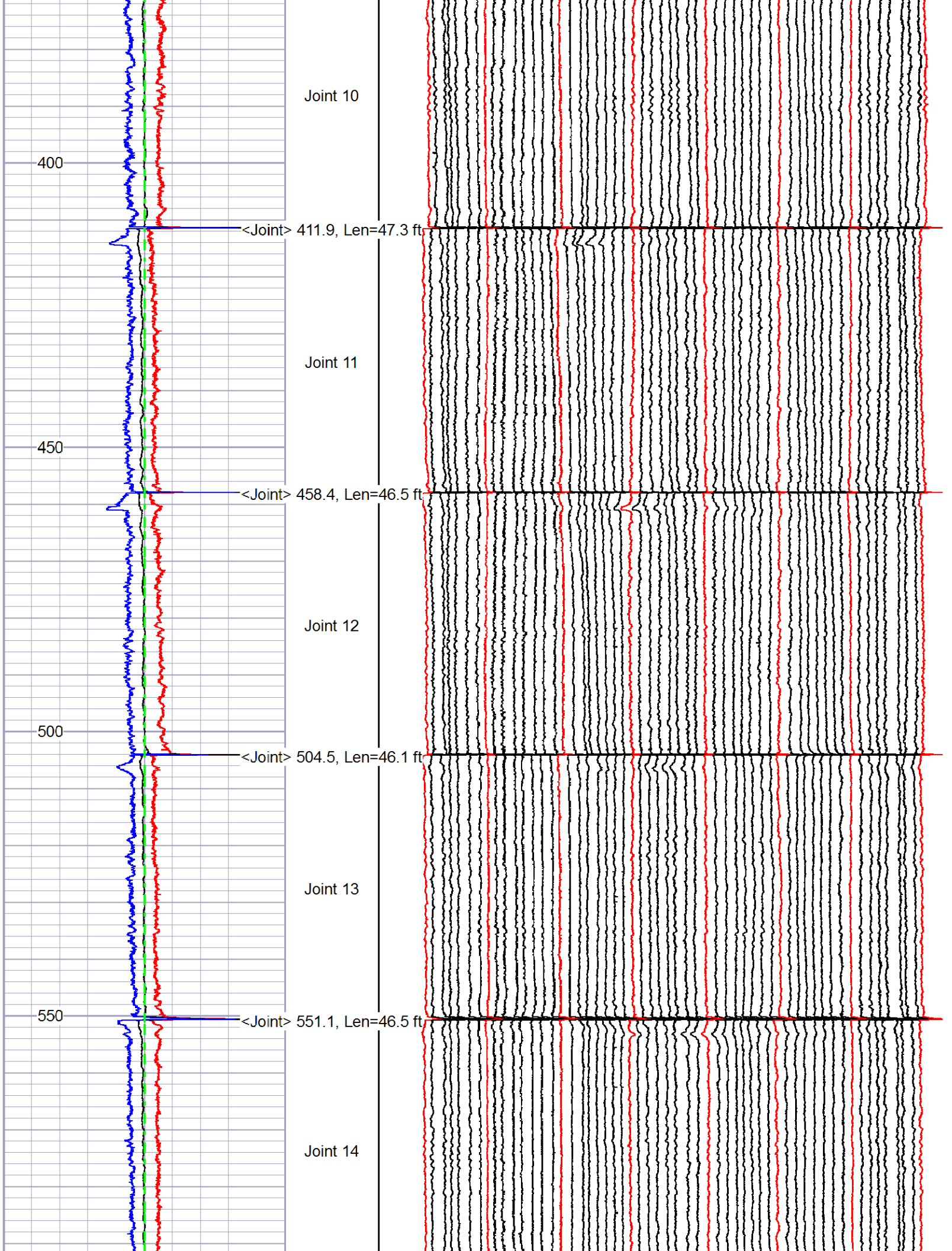
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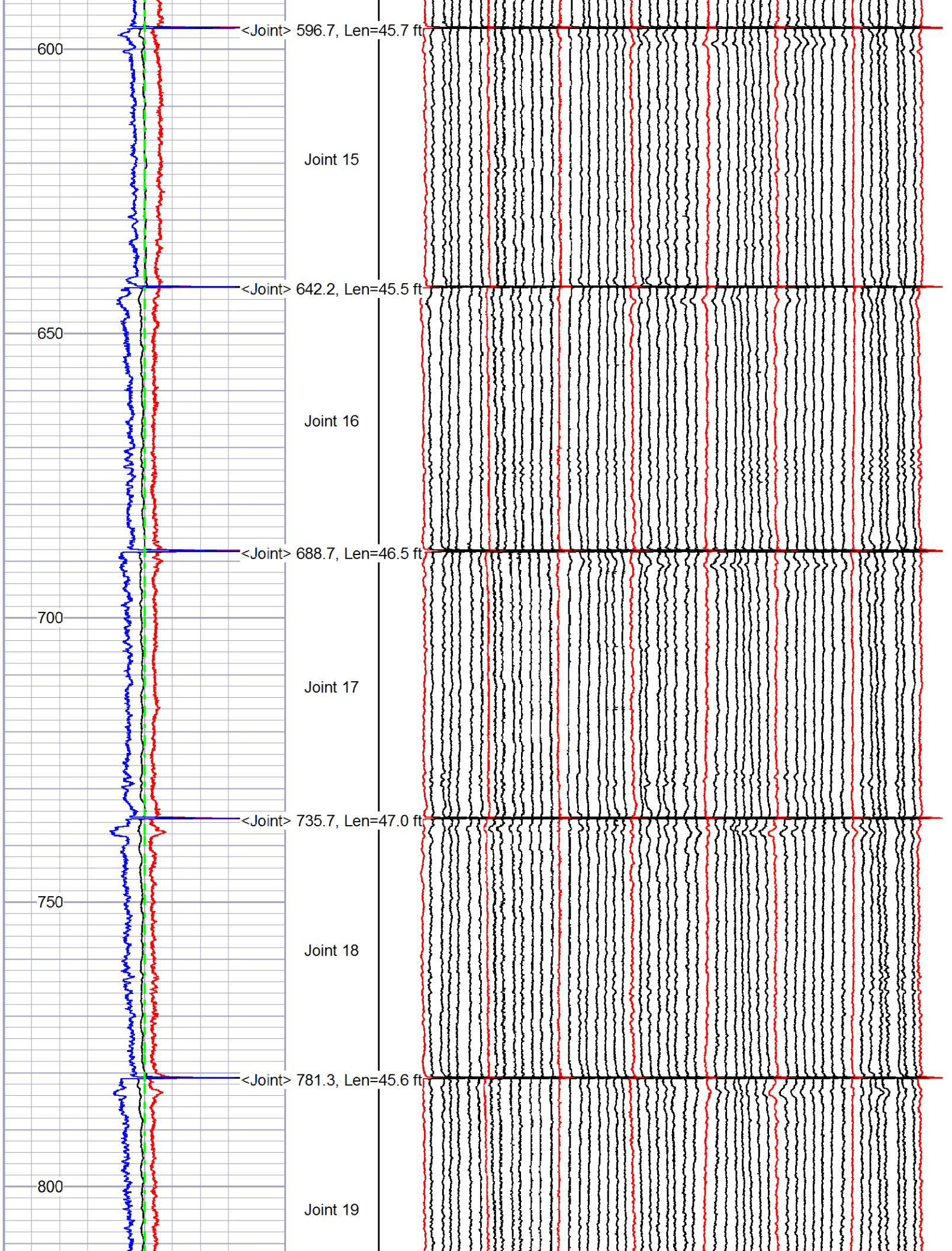
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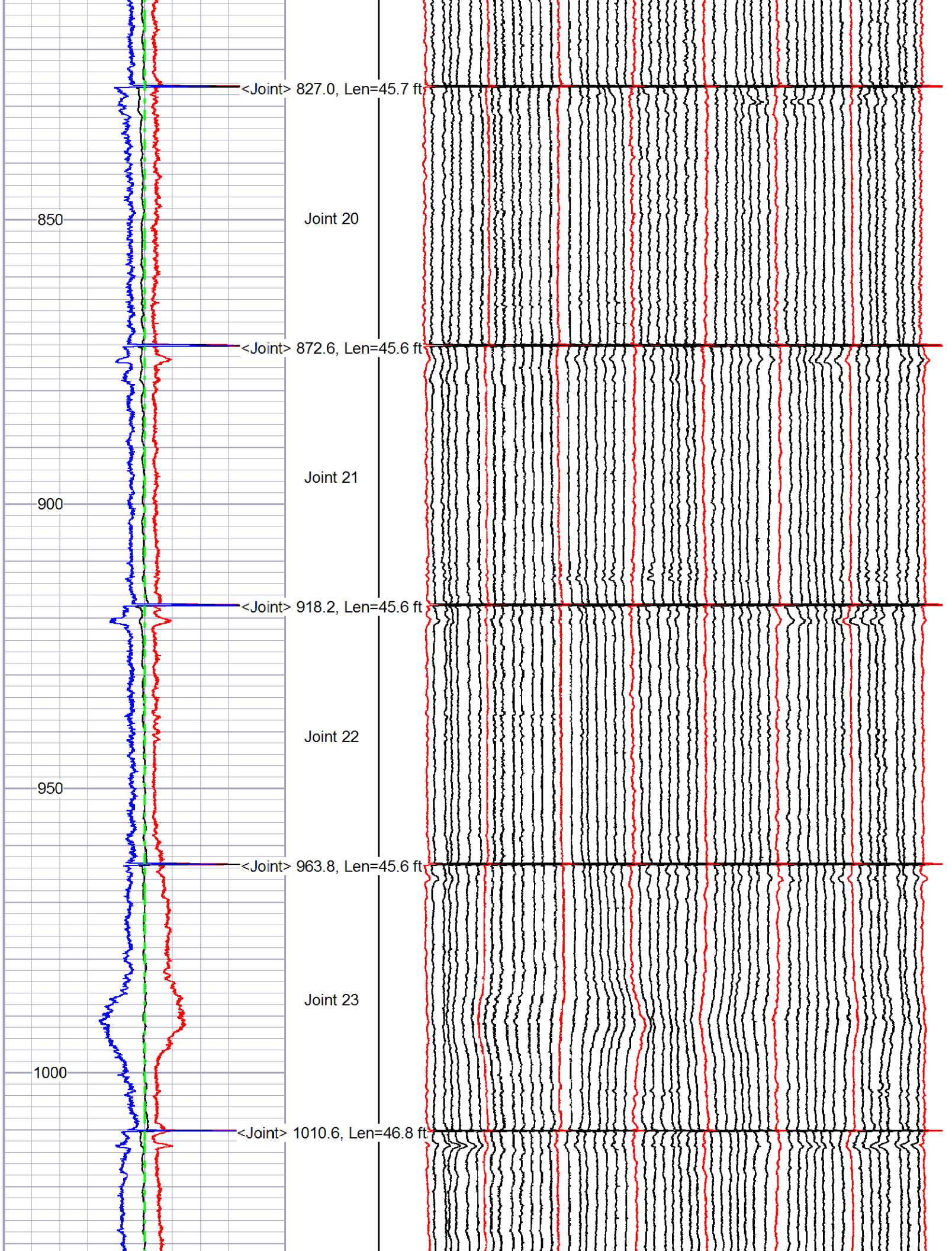
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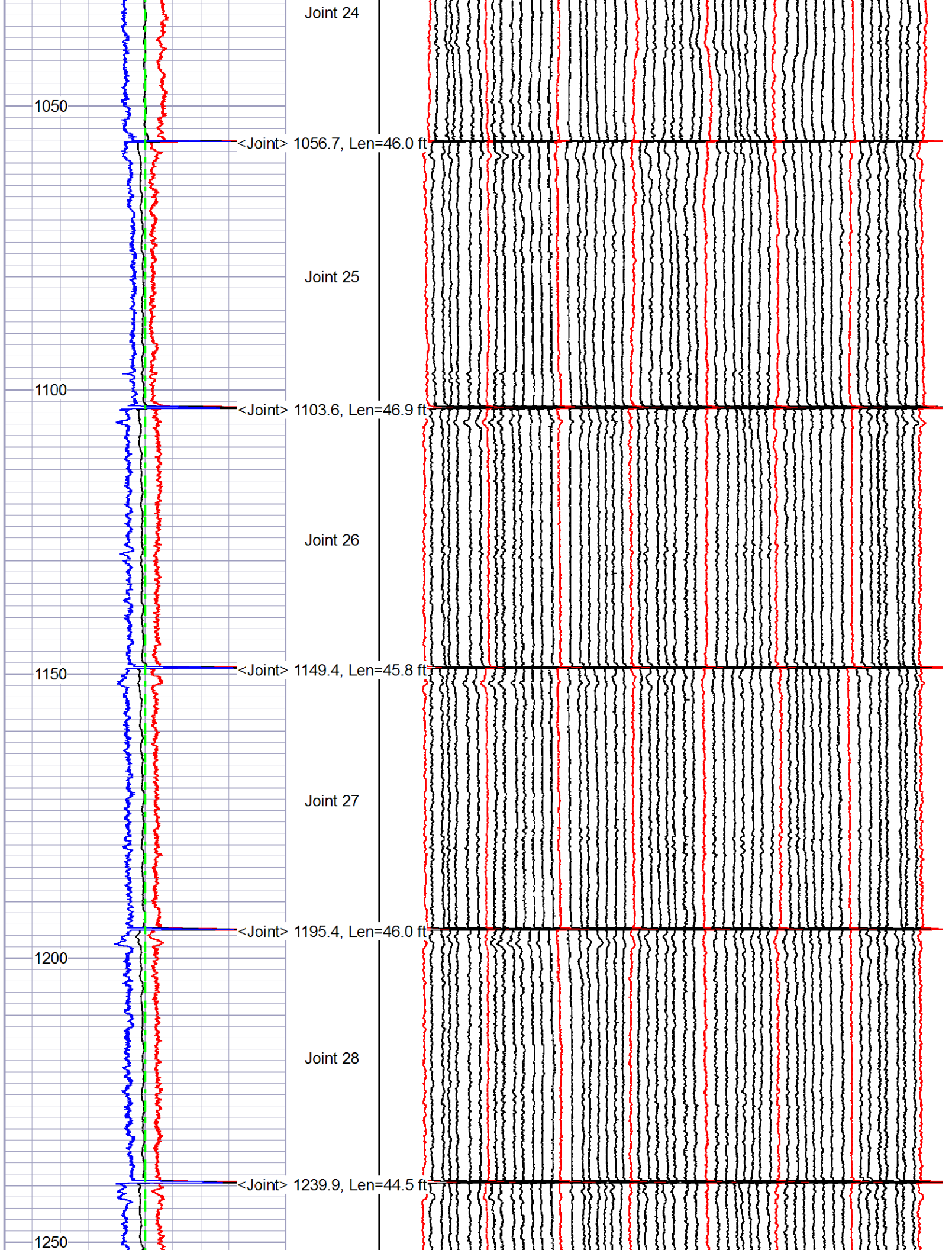
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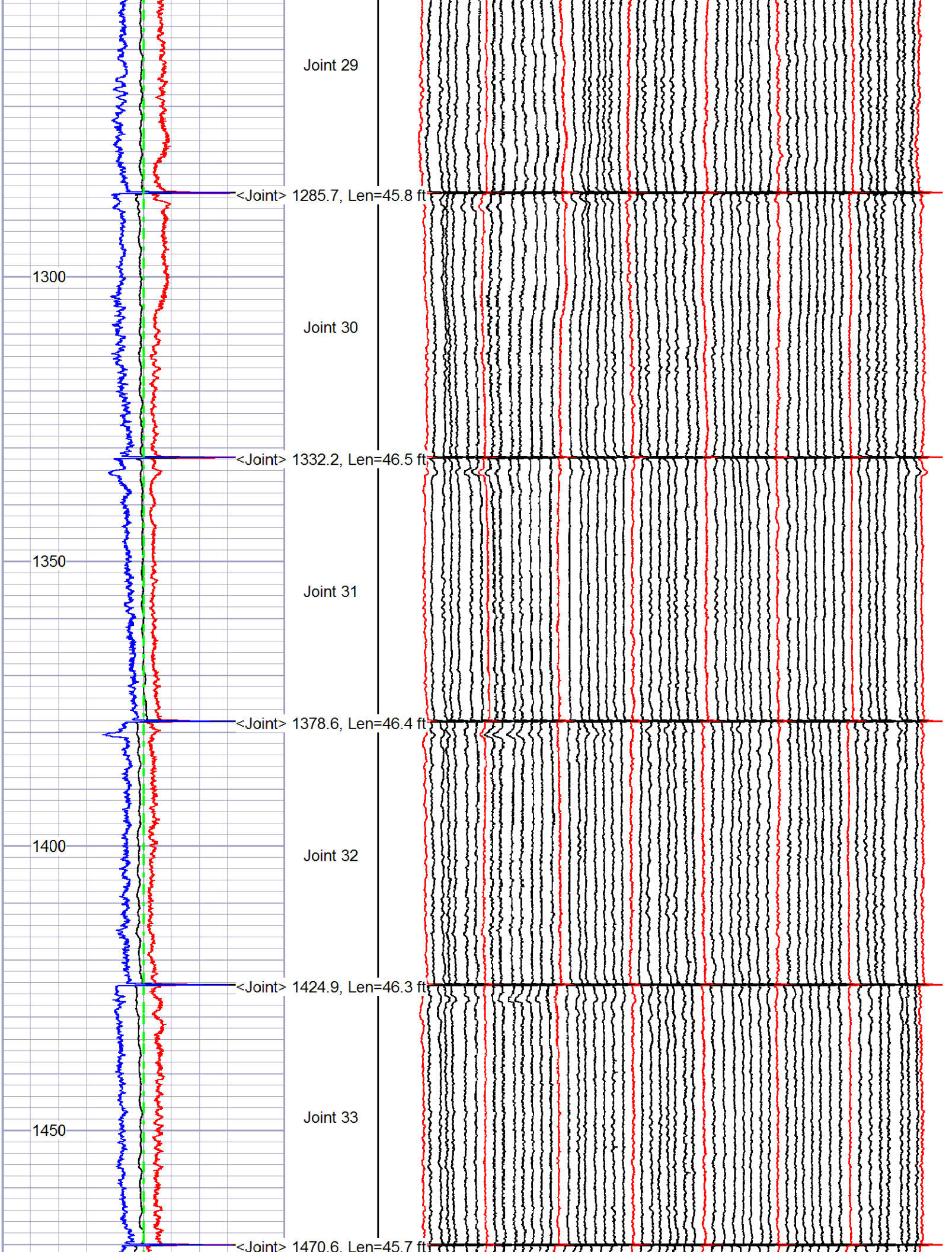
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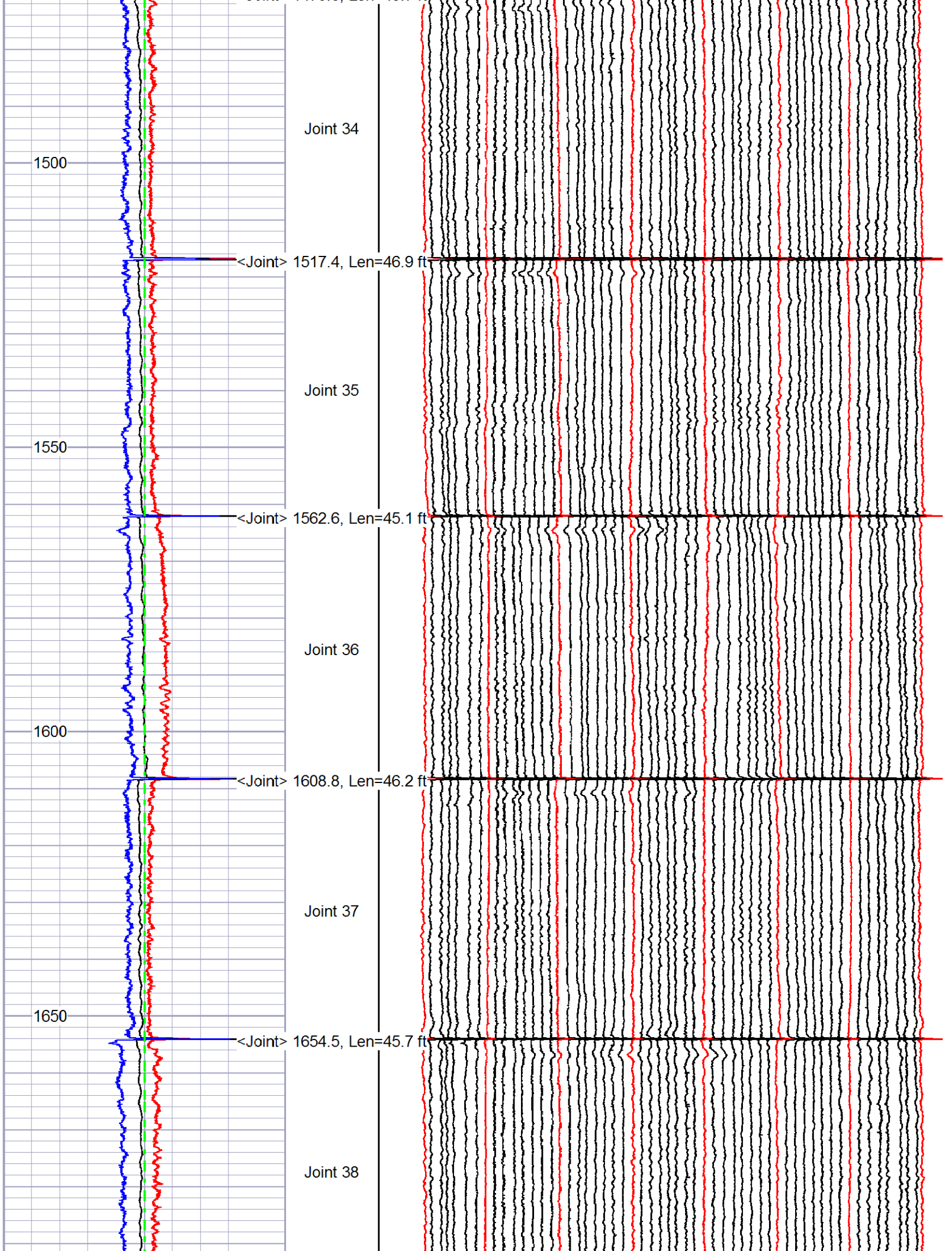
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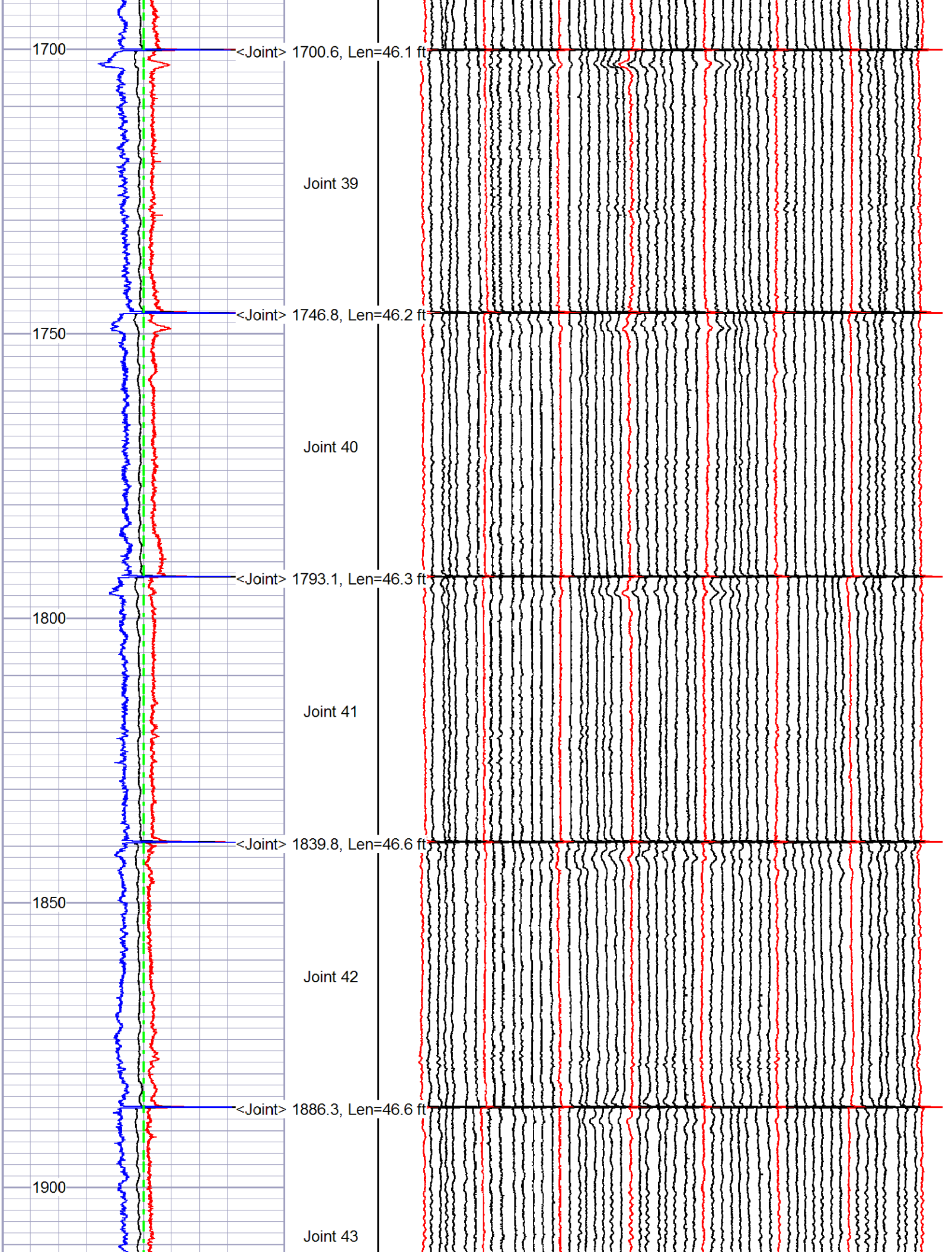
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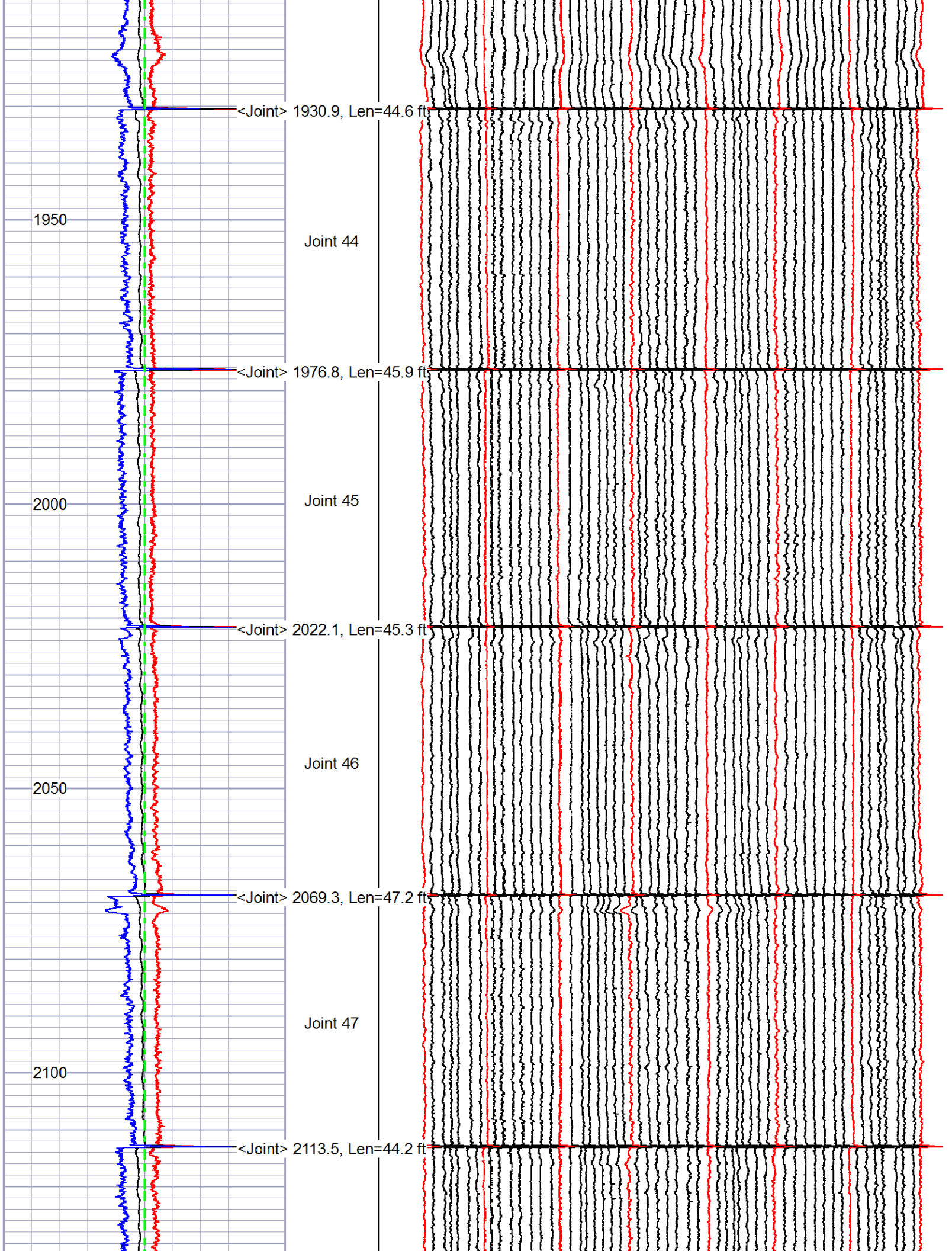
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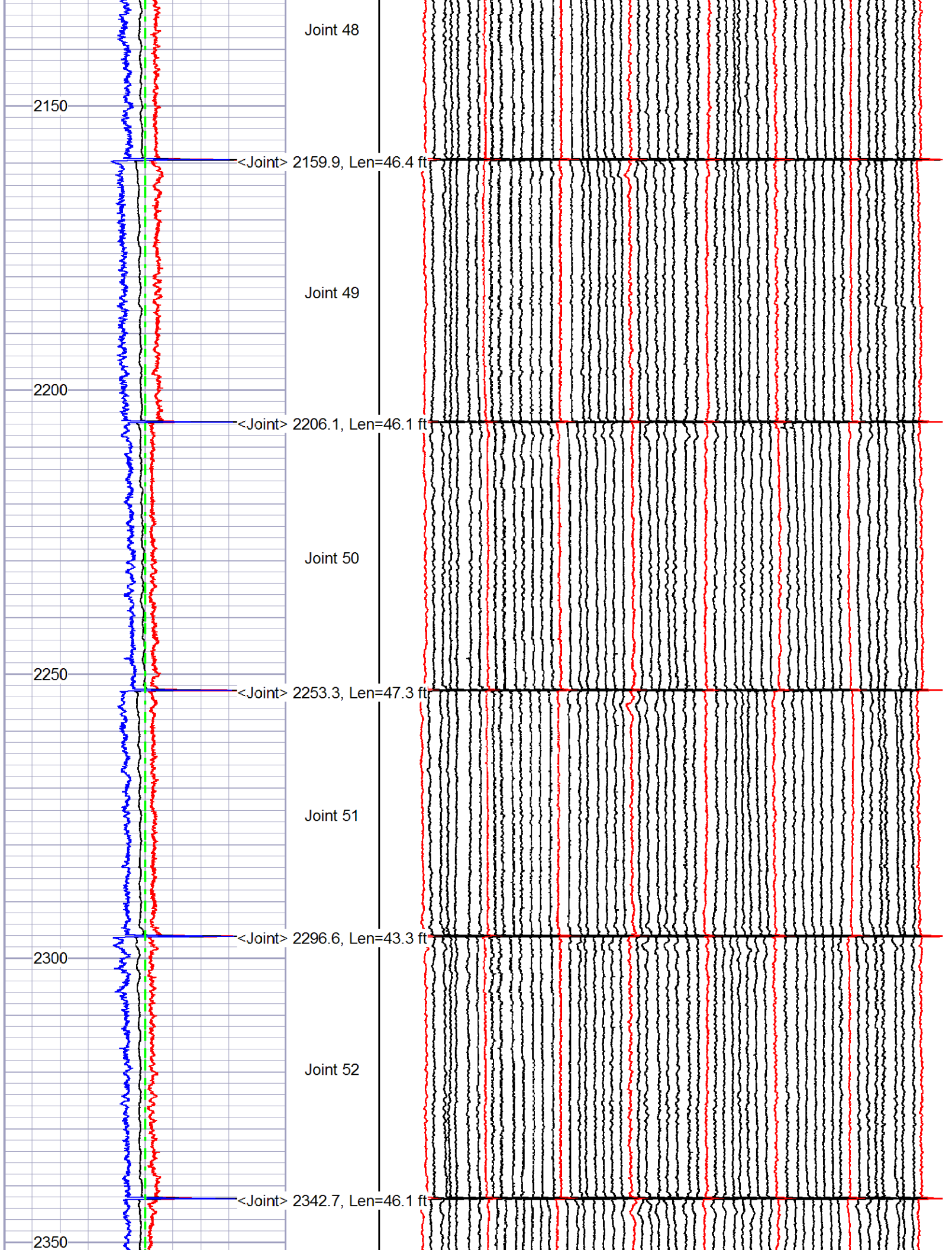
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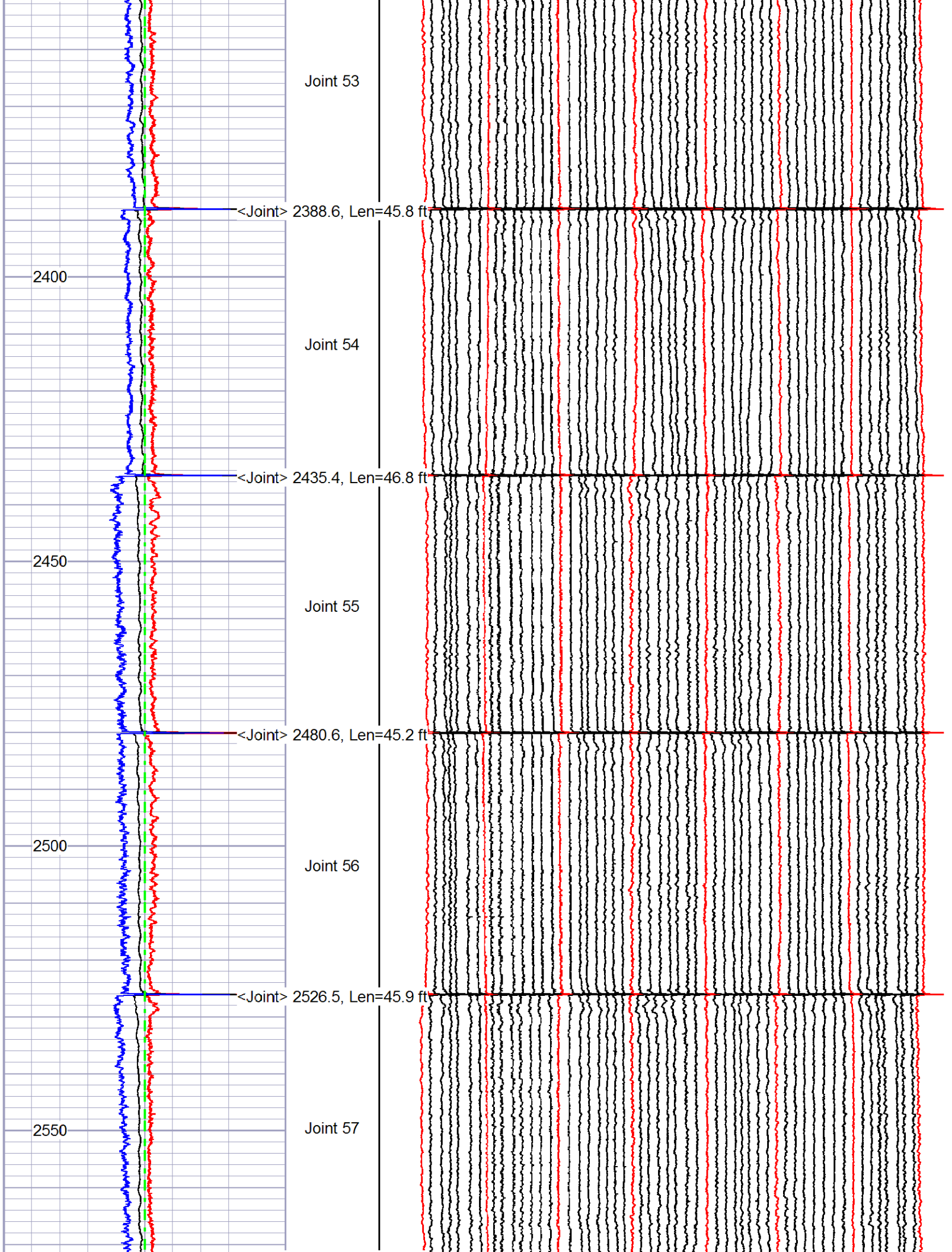
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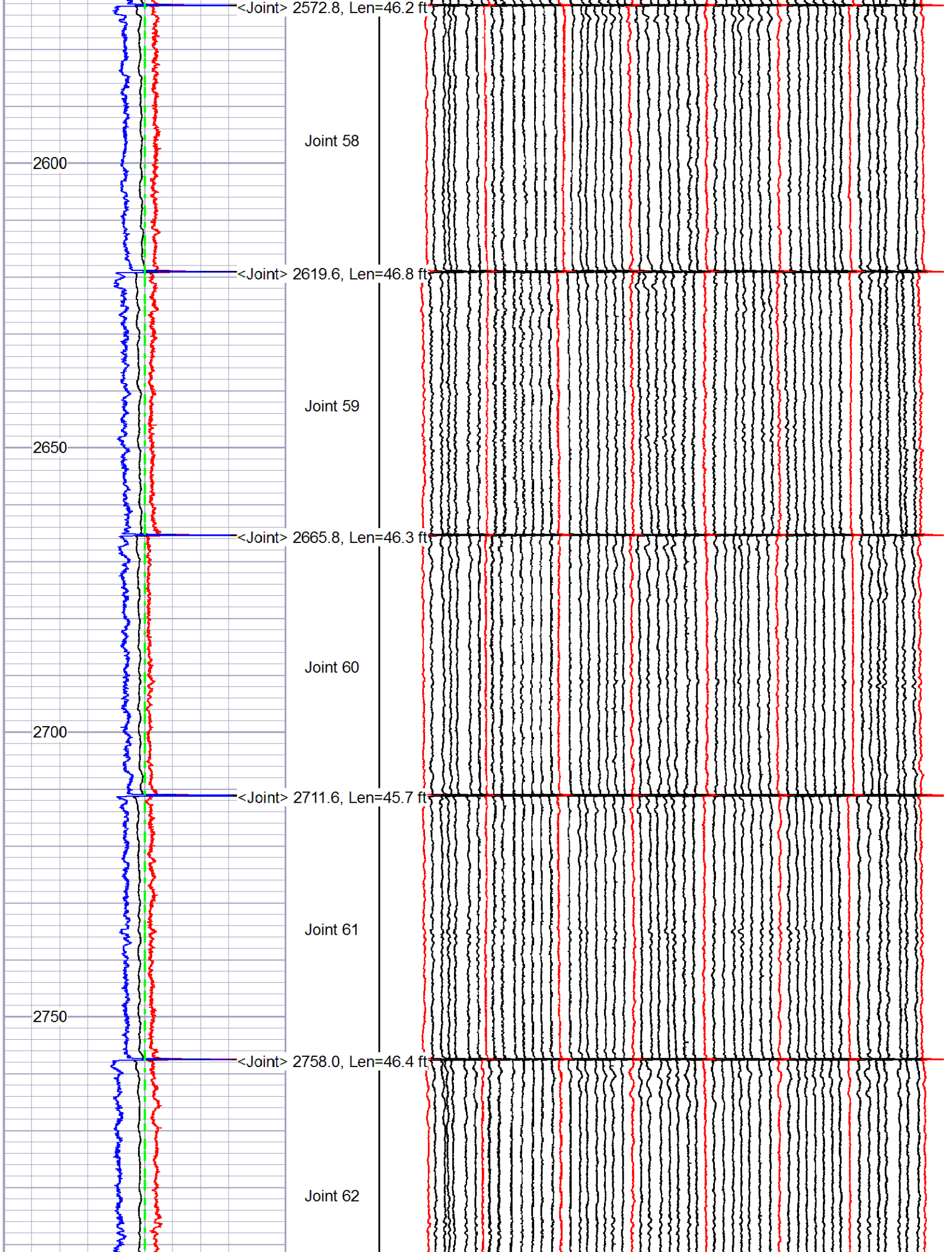
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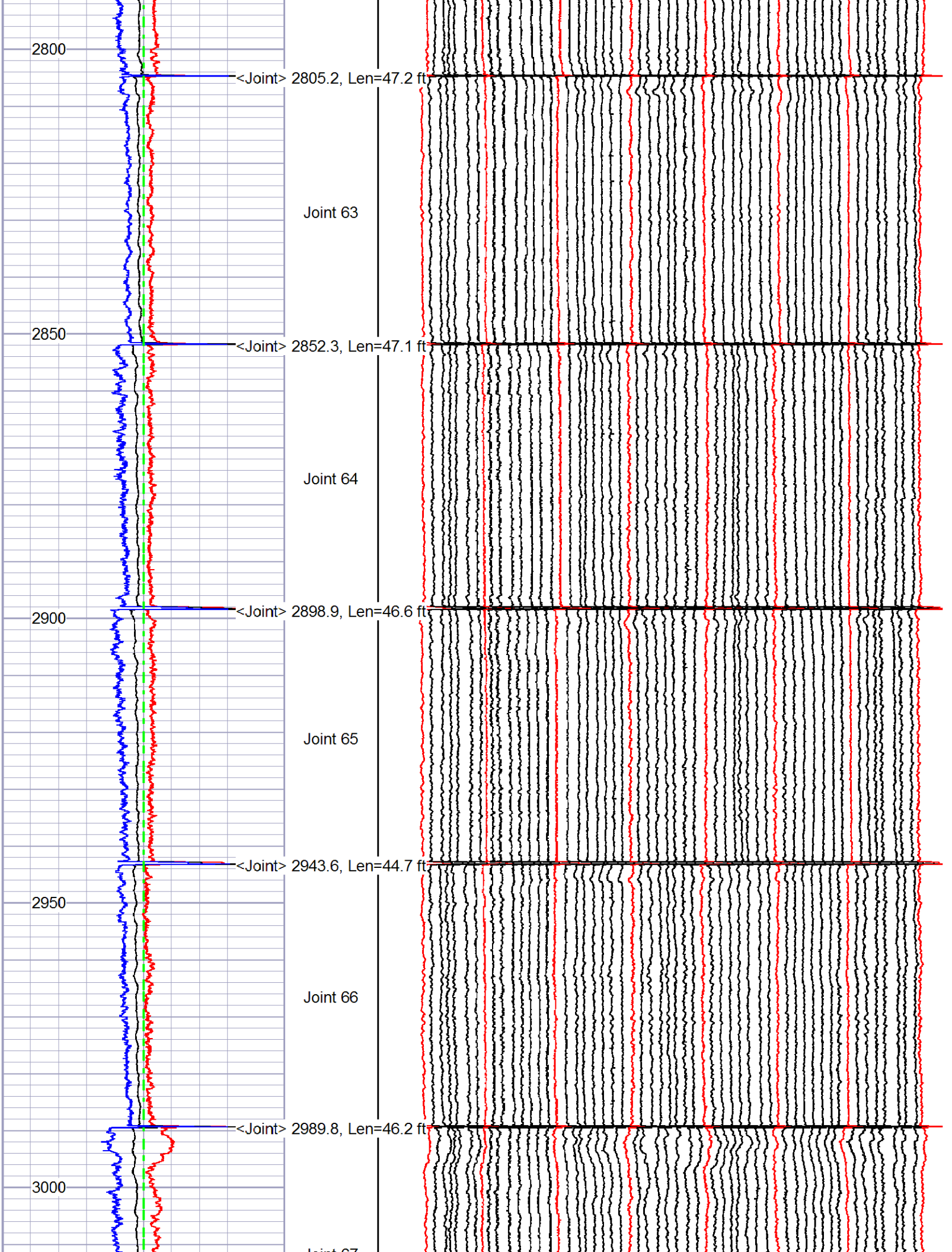
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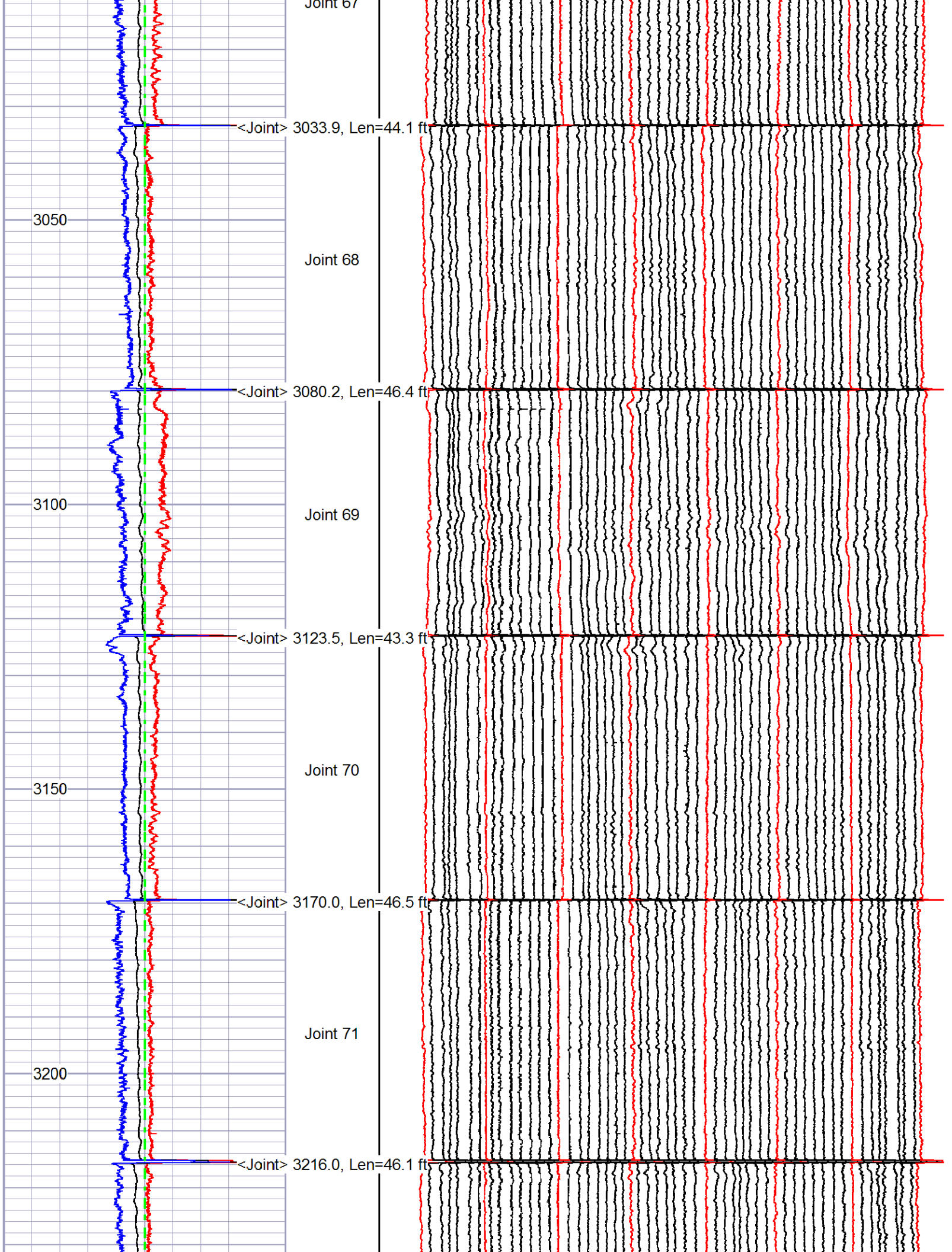
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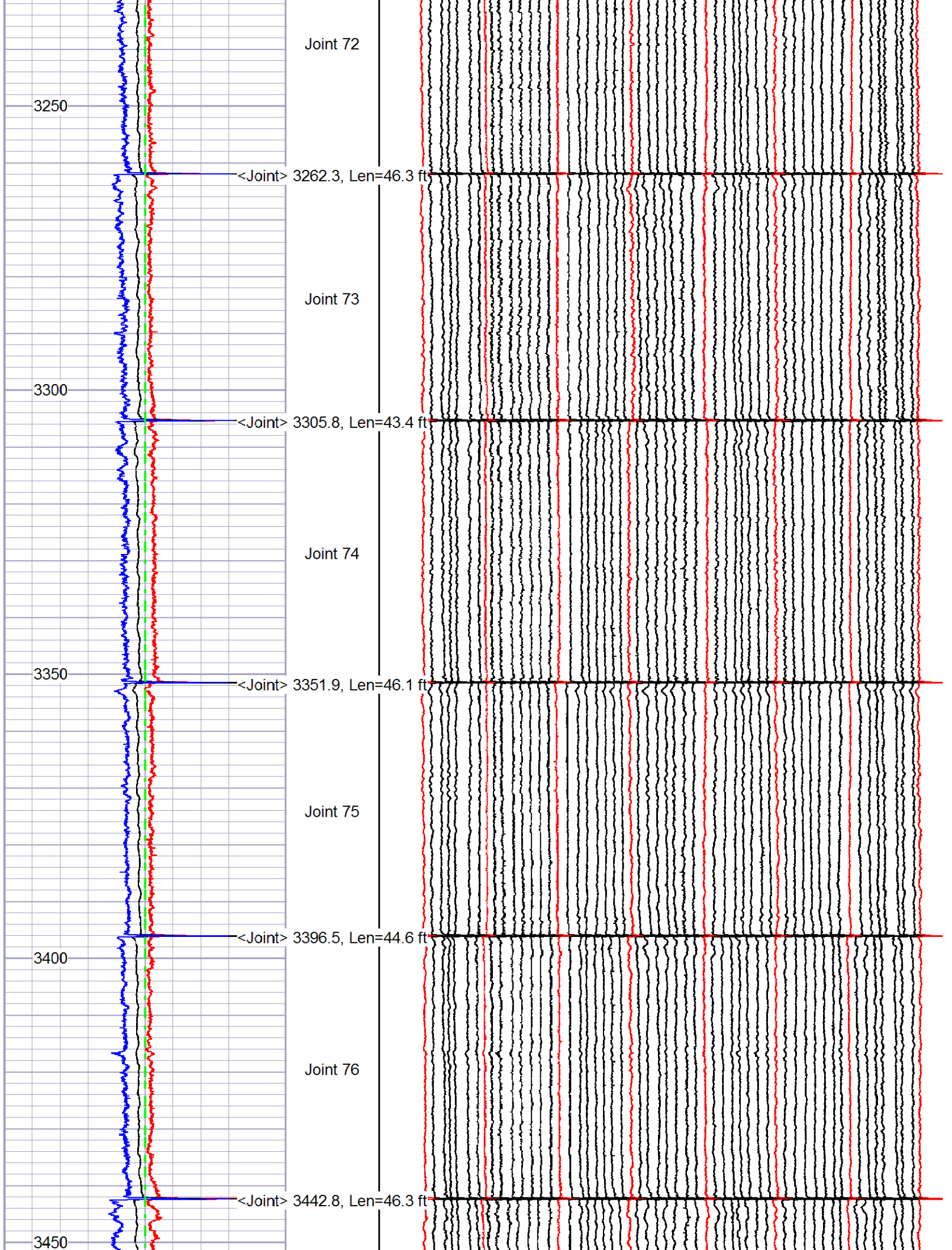
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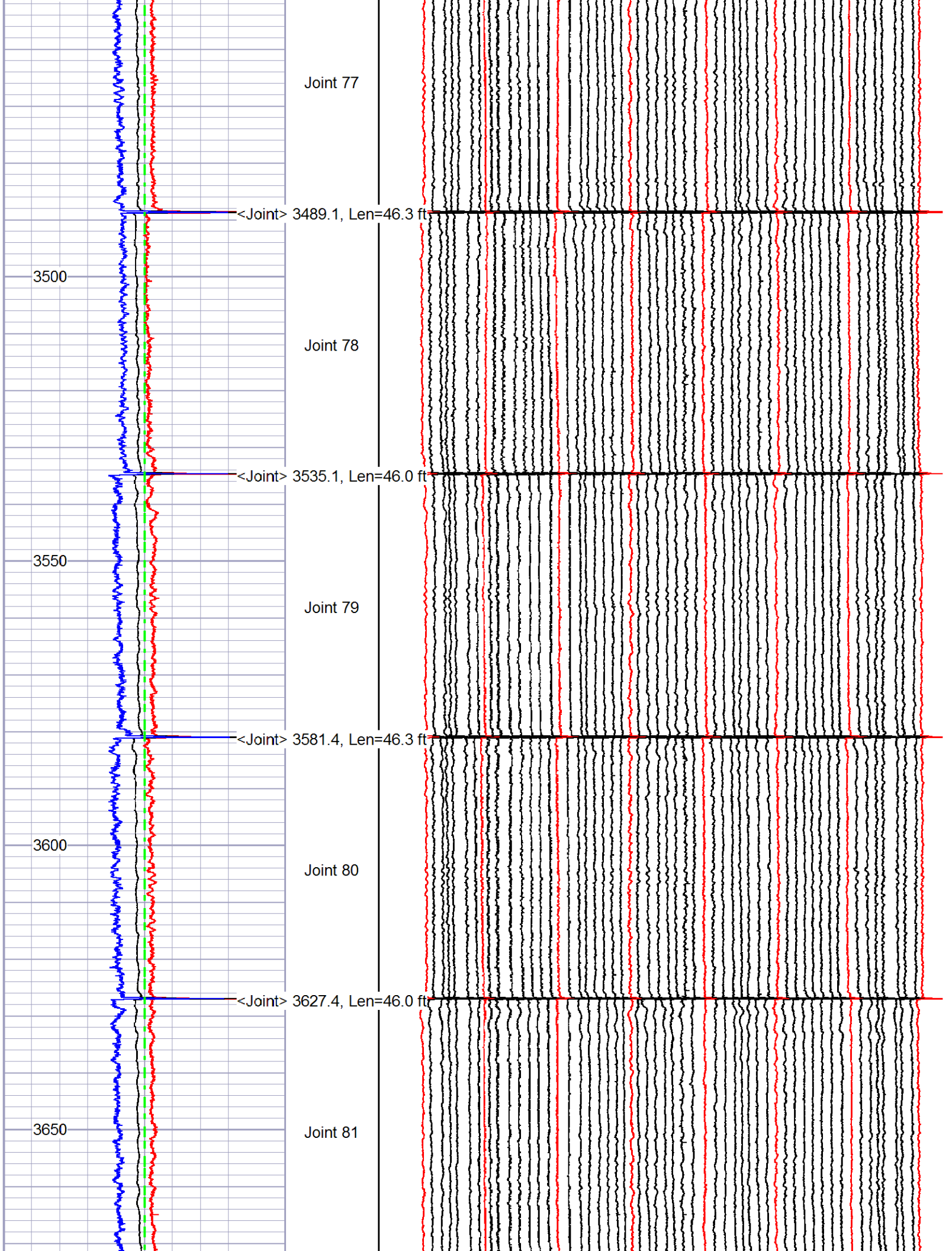
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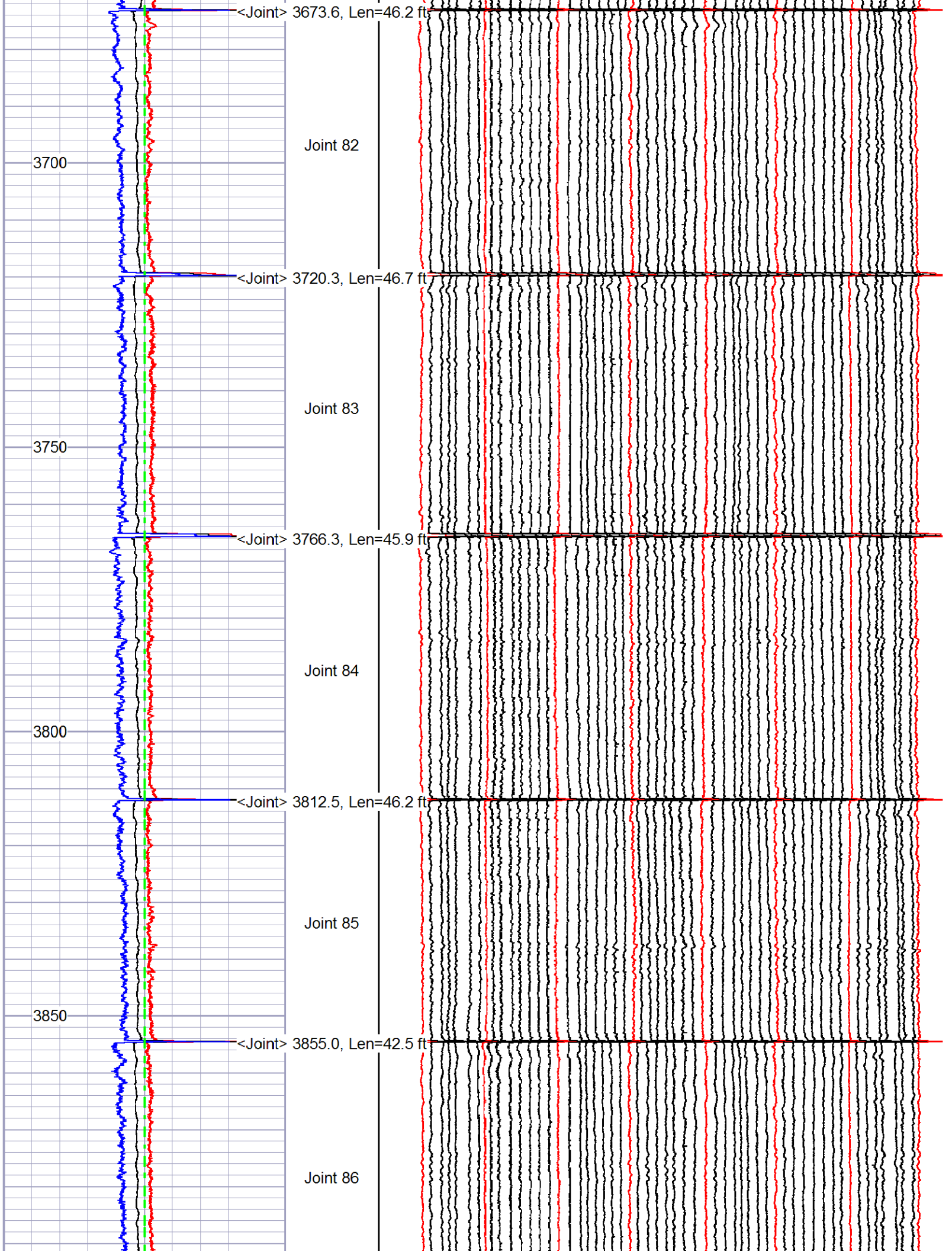
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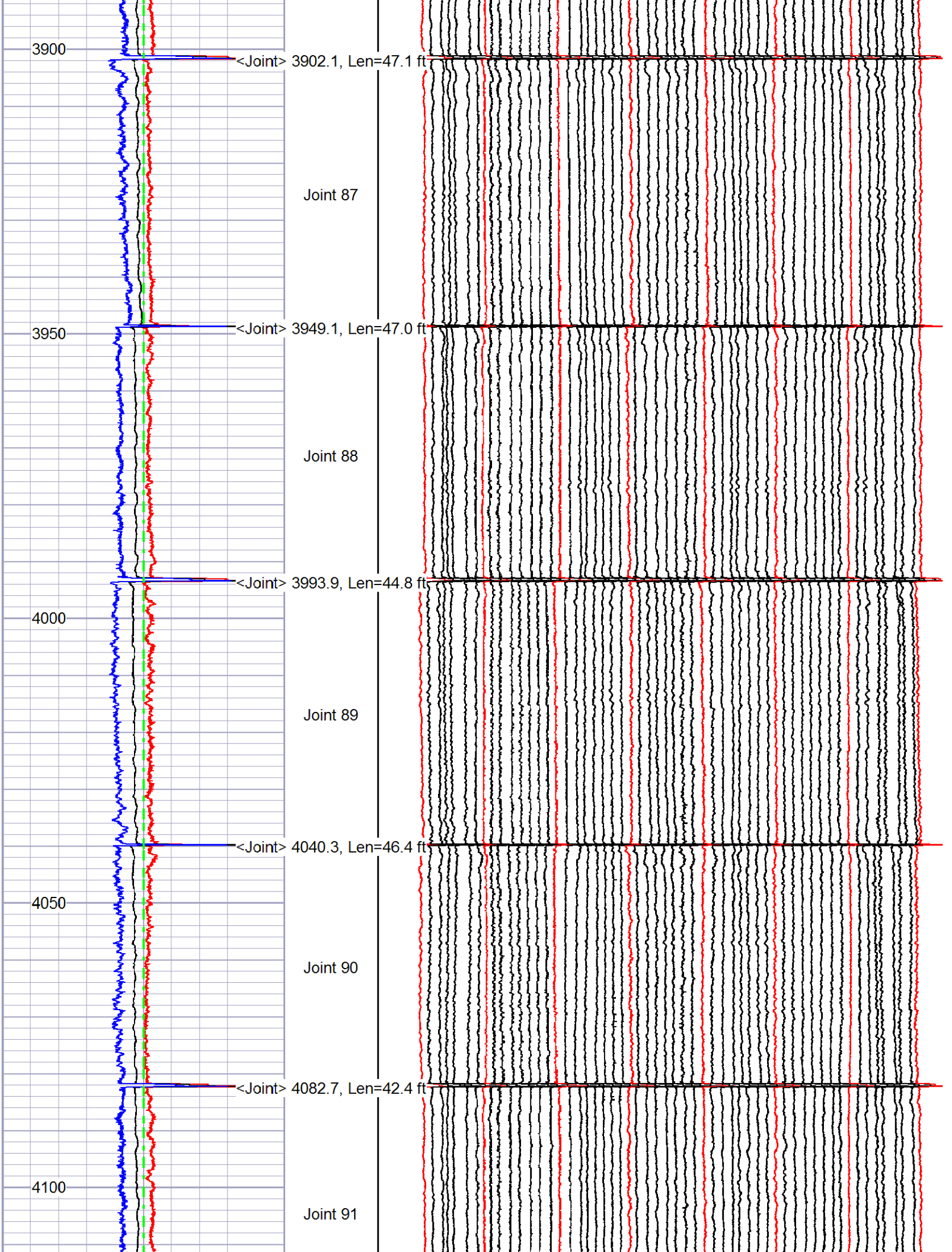
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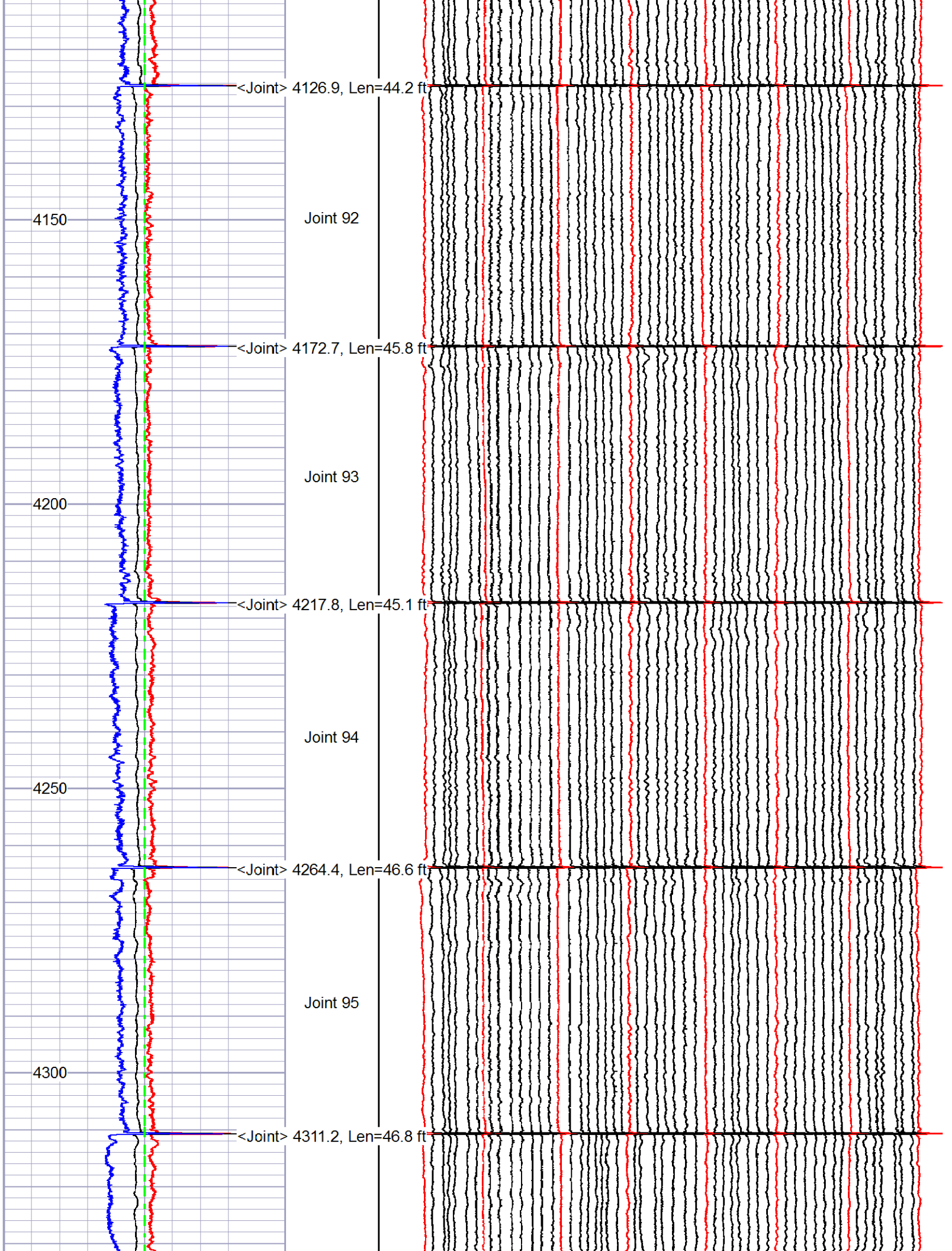
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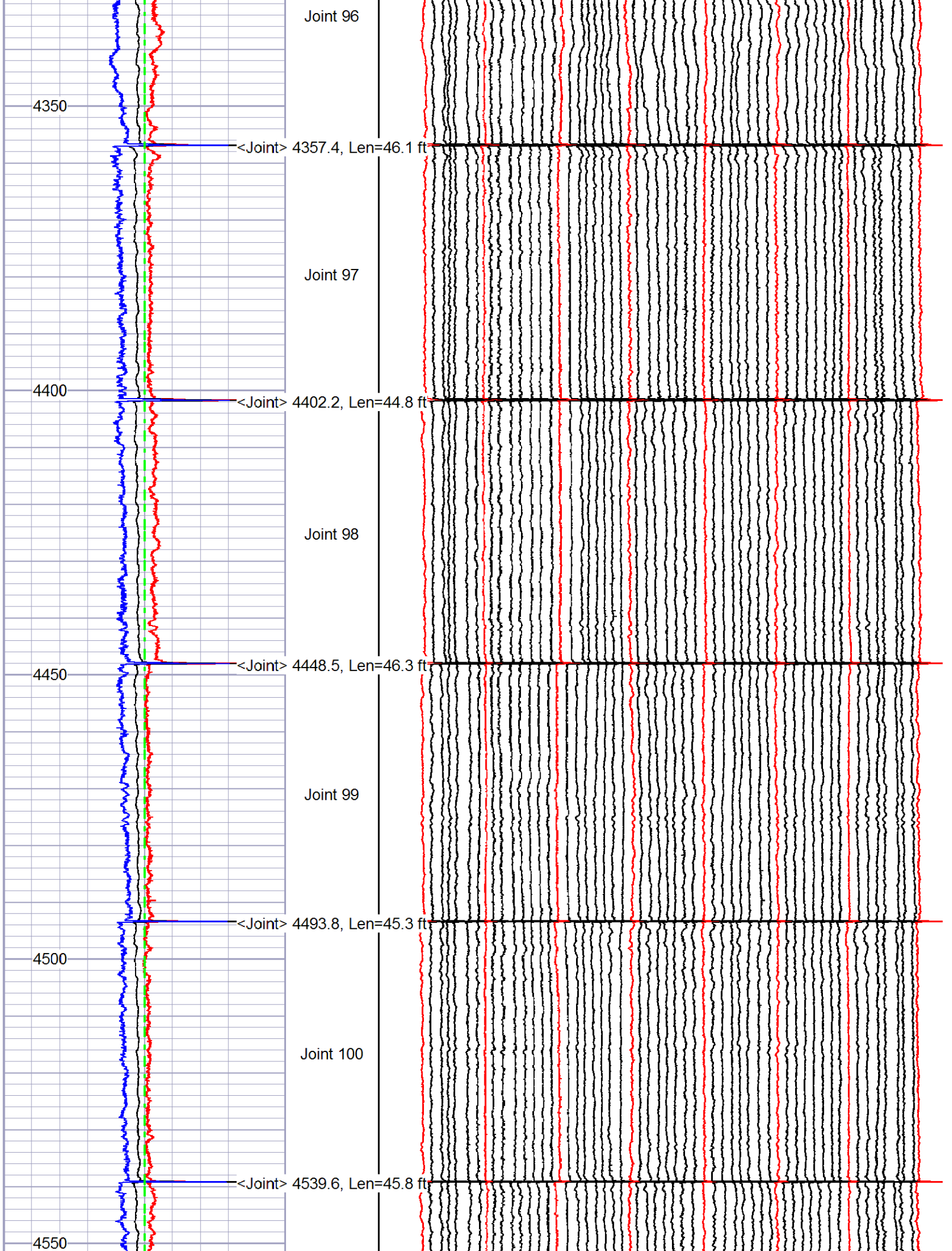
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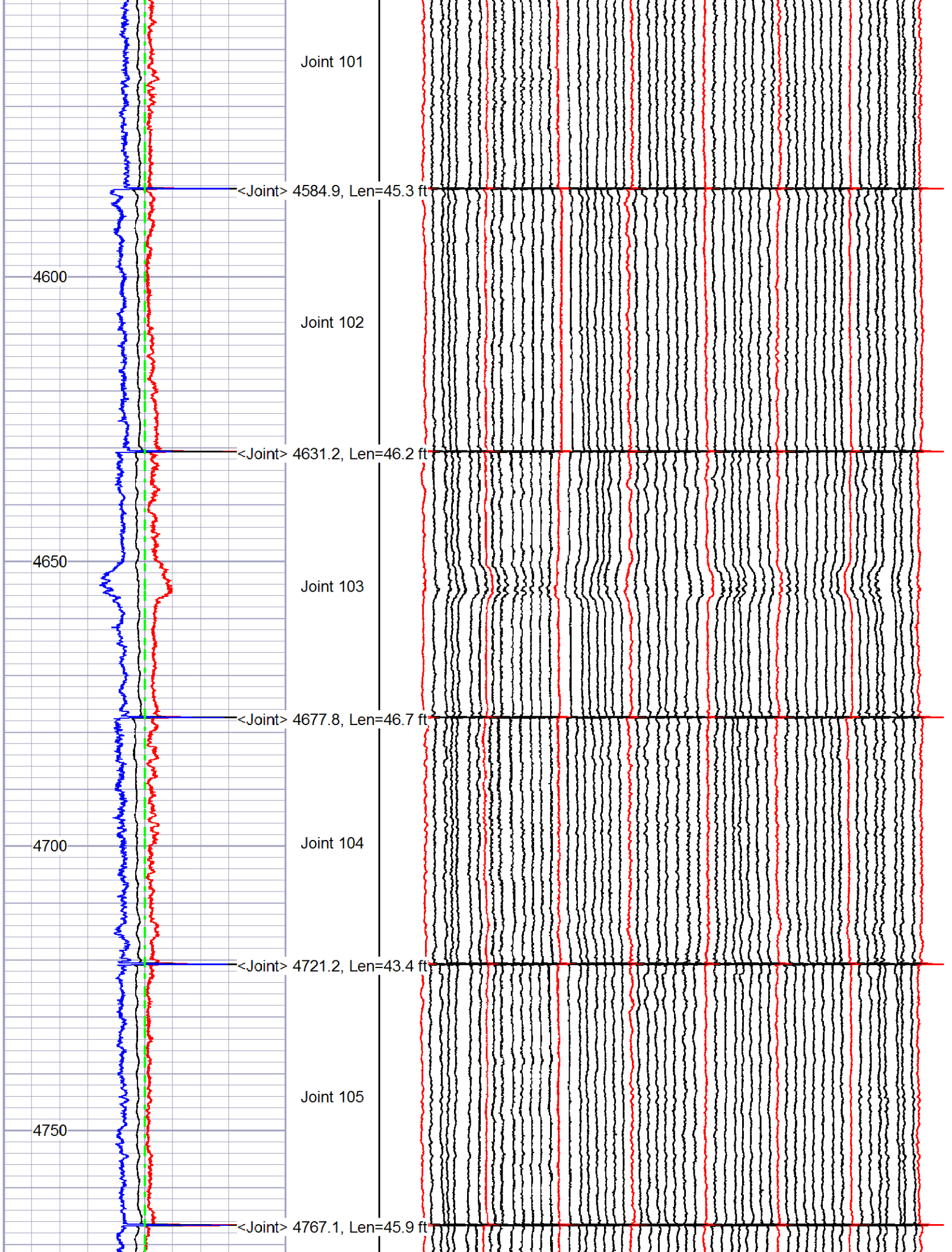
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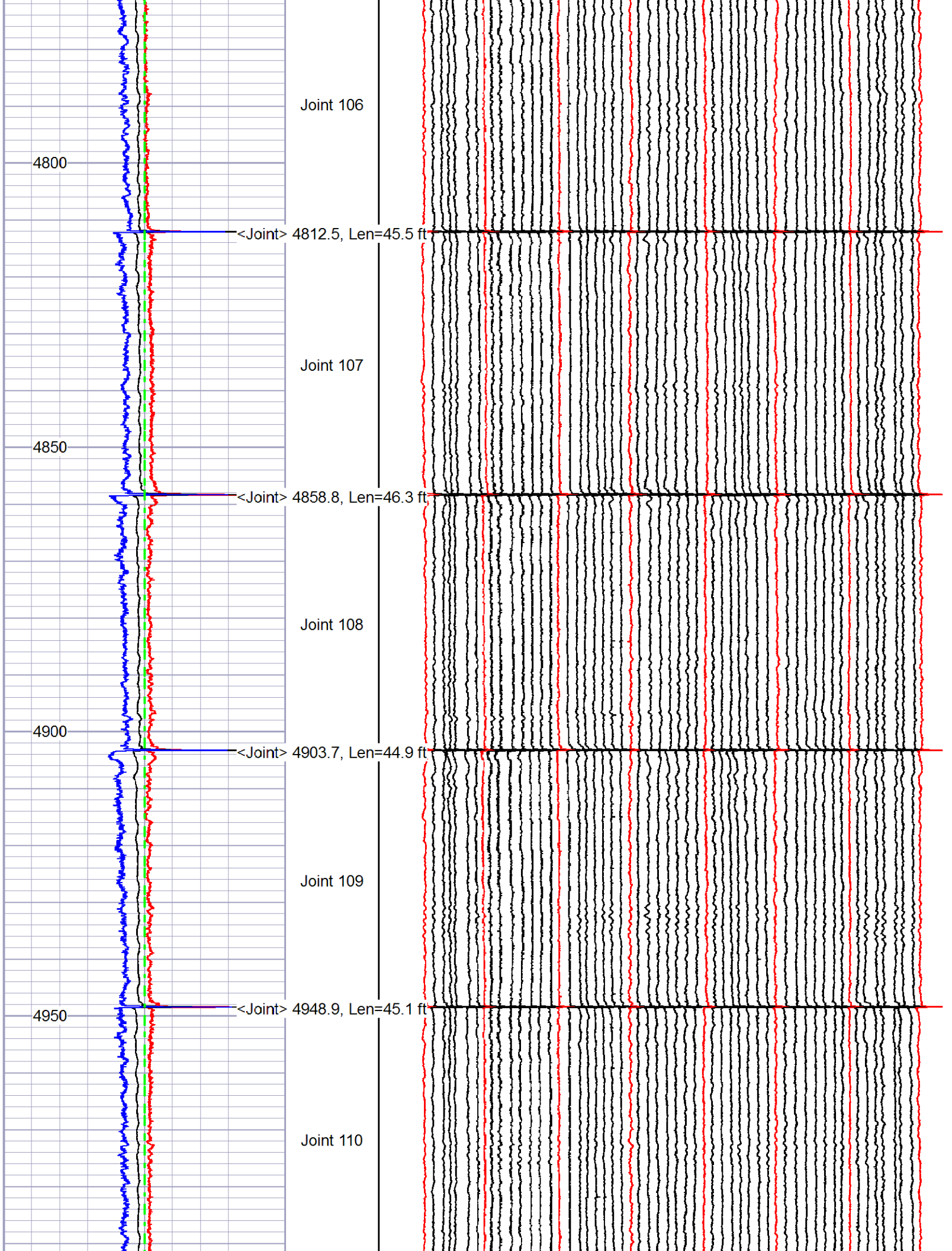
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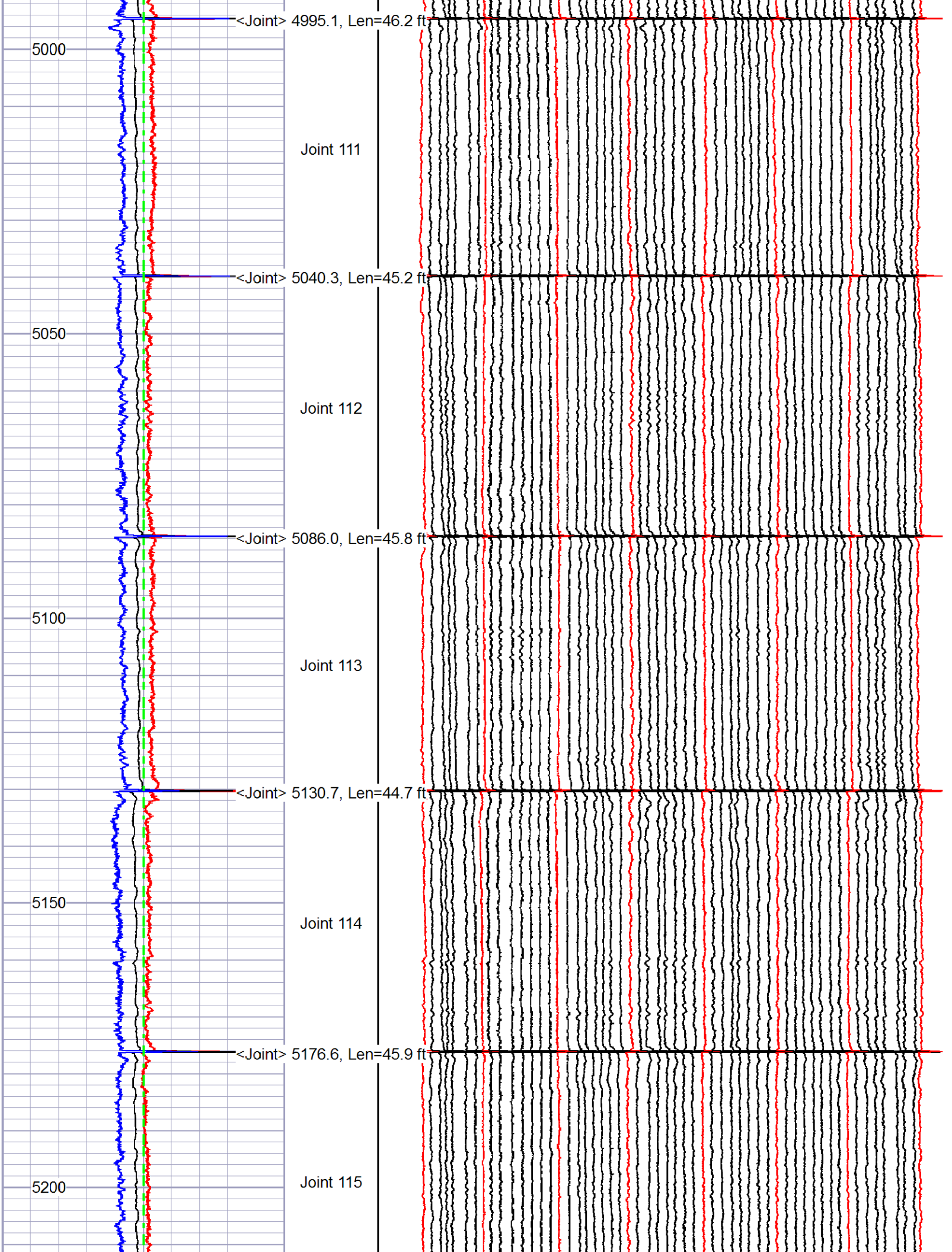
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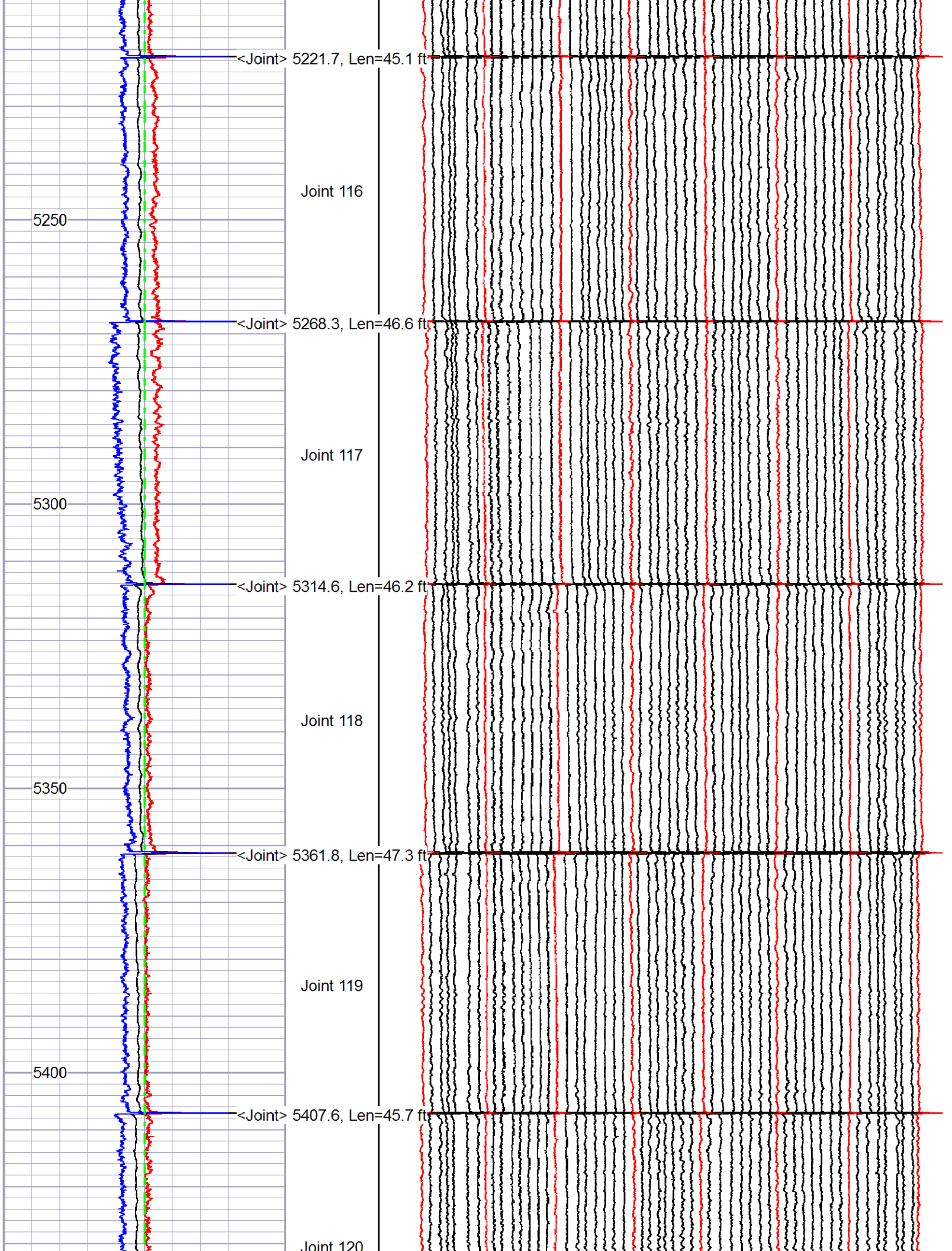
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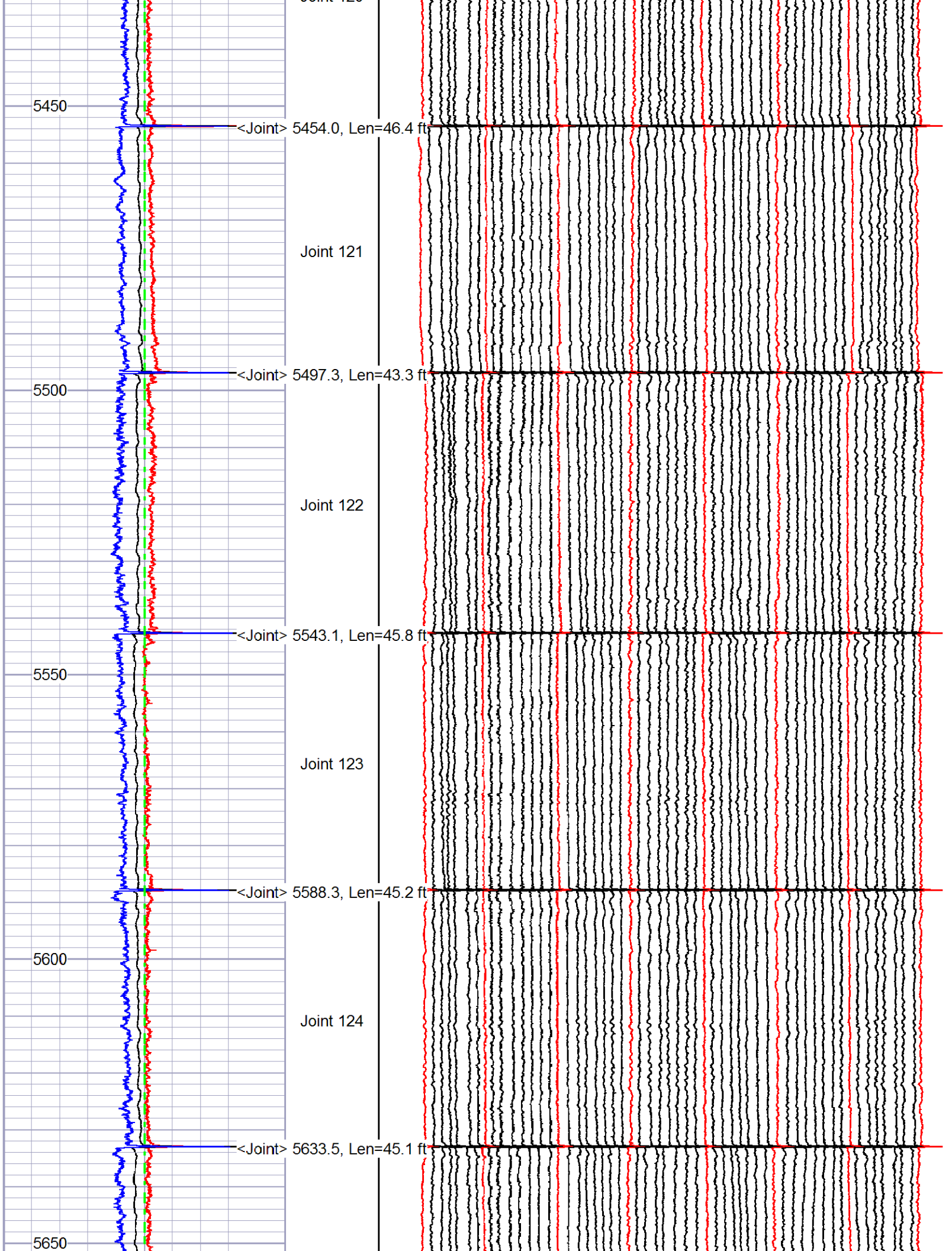
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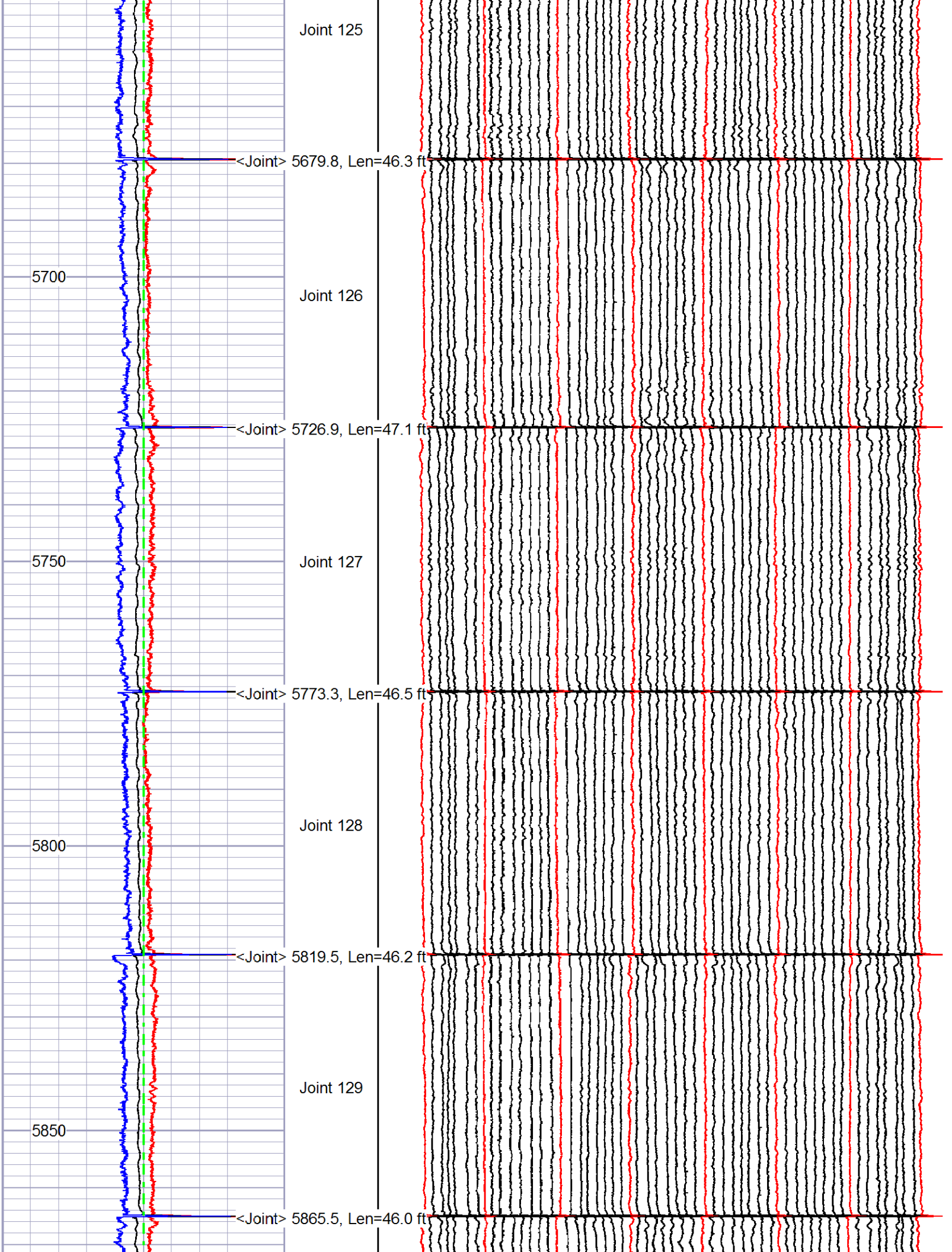
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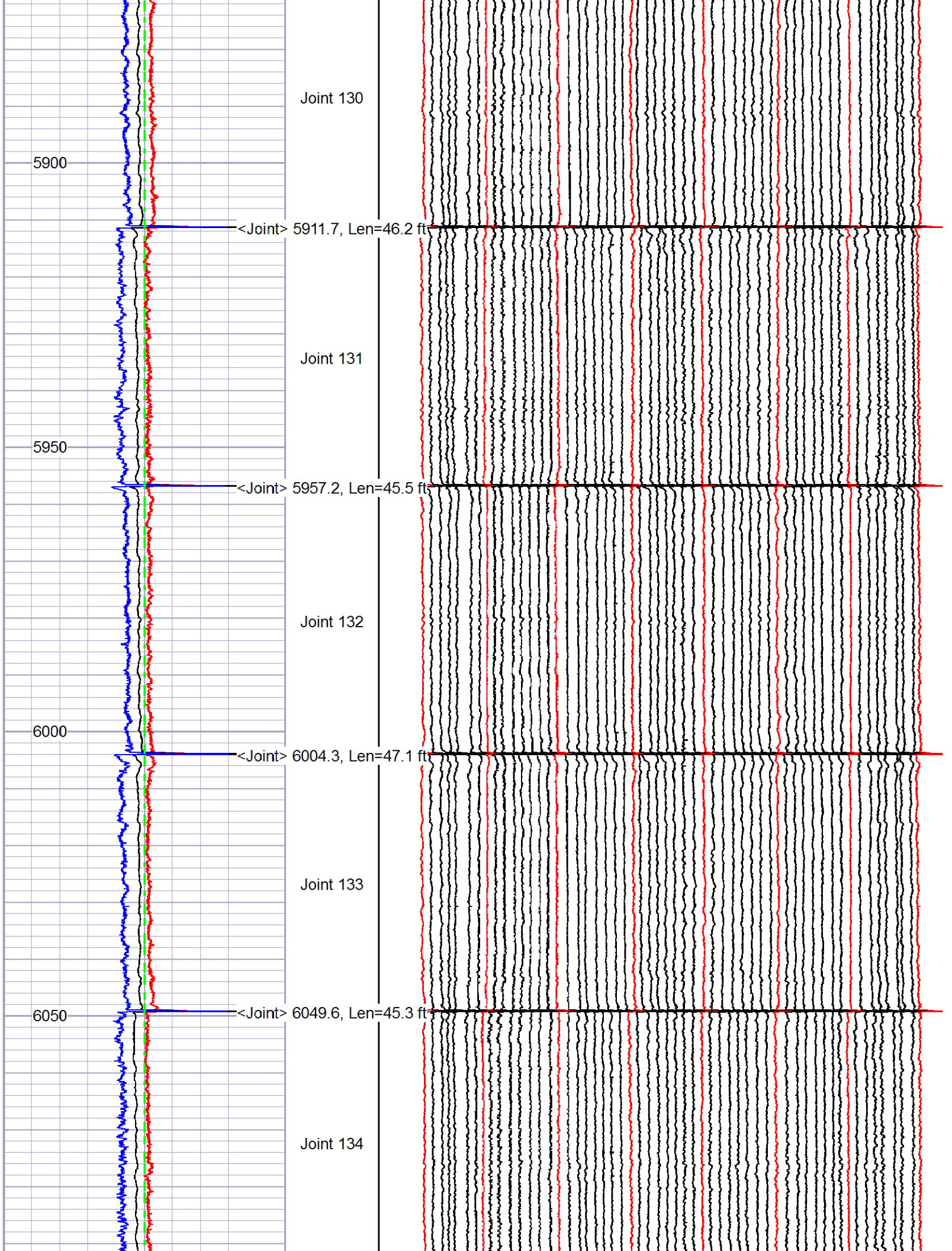
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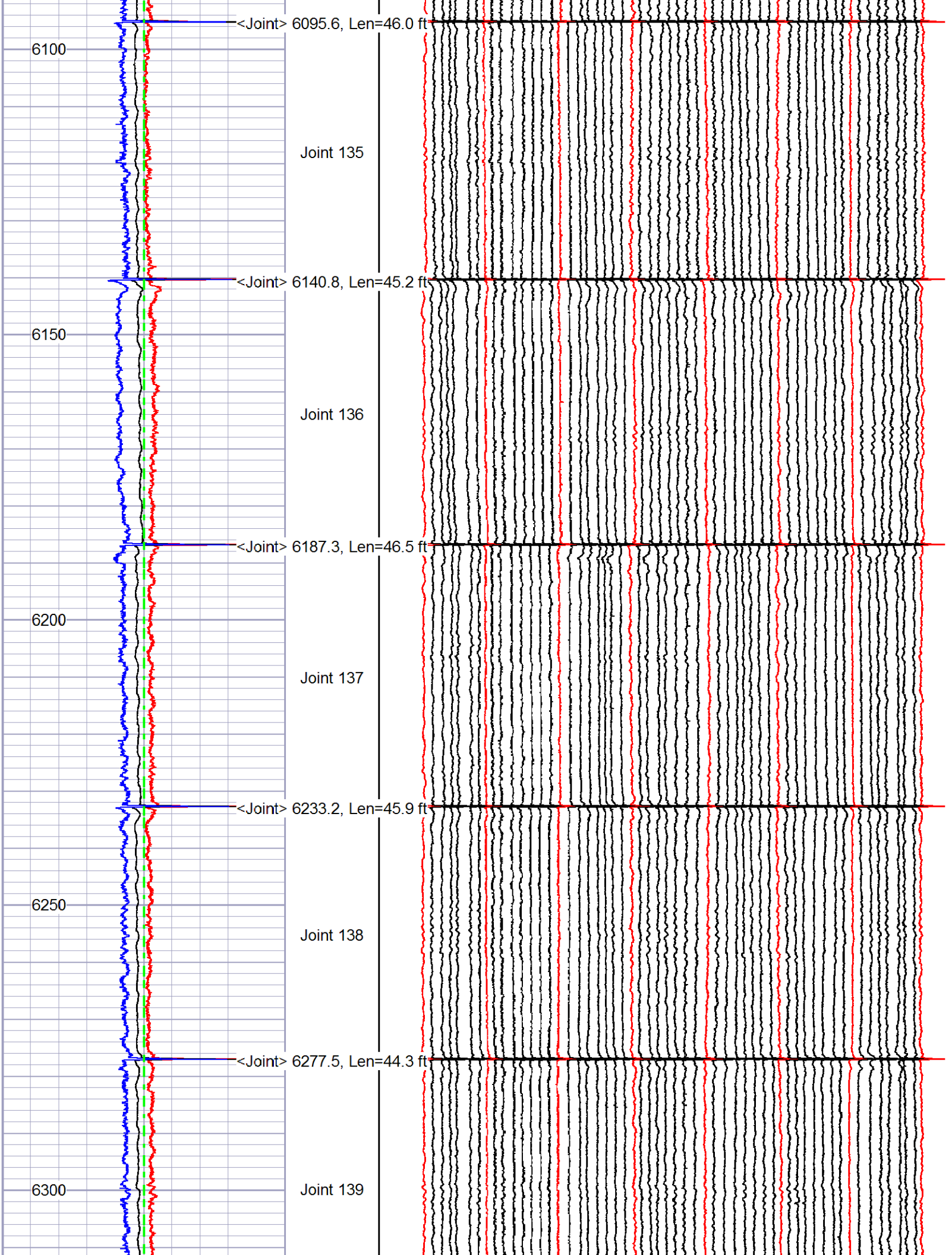
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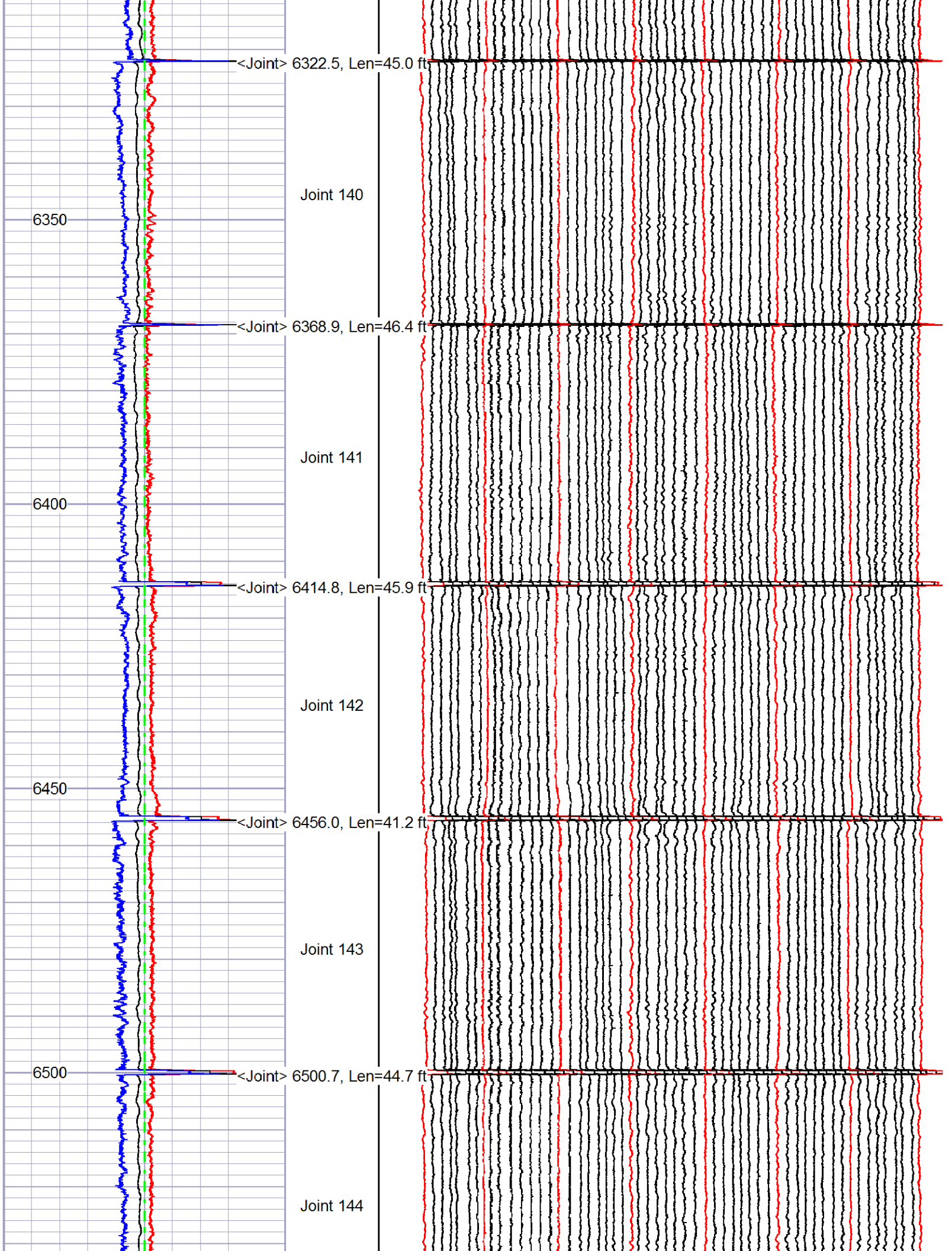
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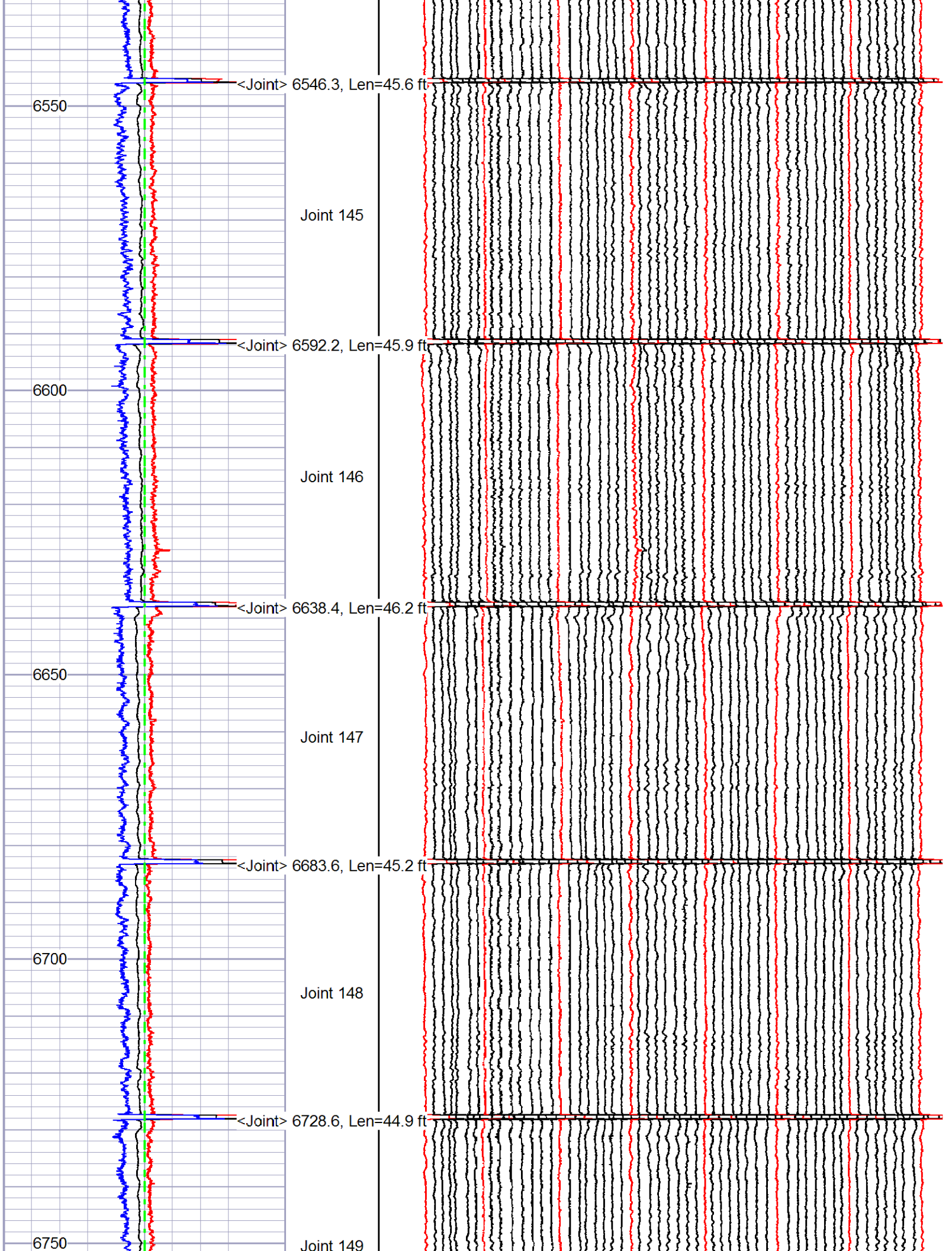
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6600
Joint 146
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6650
Joint 147
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Joint 148
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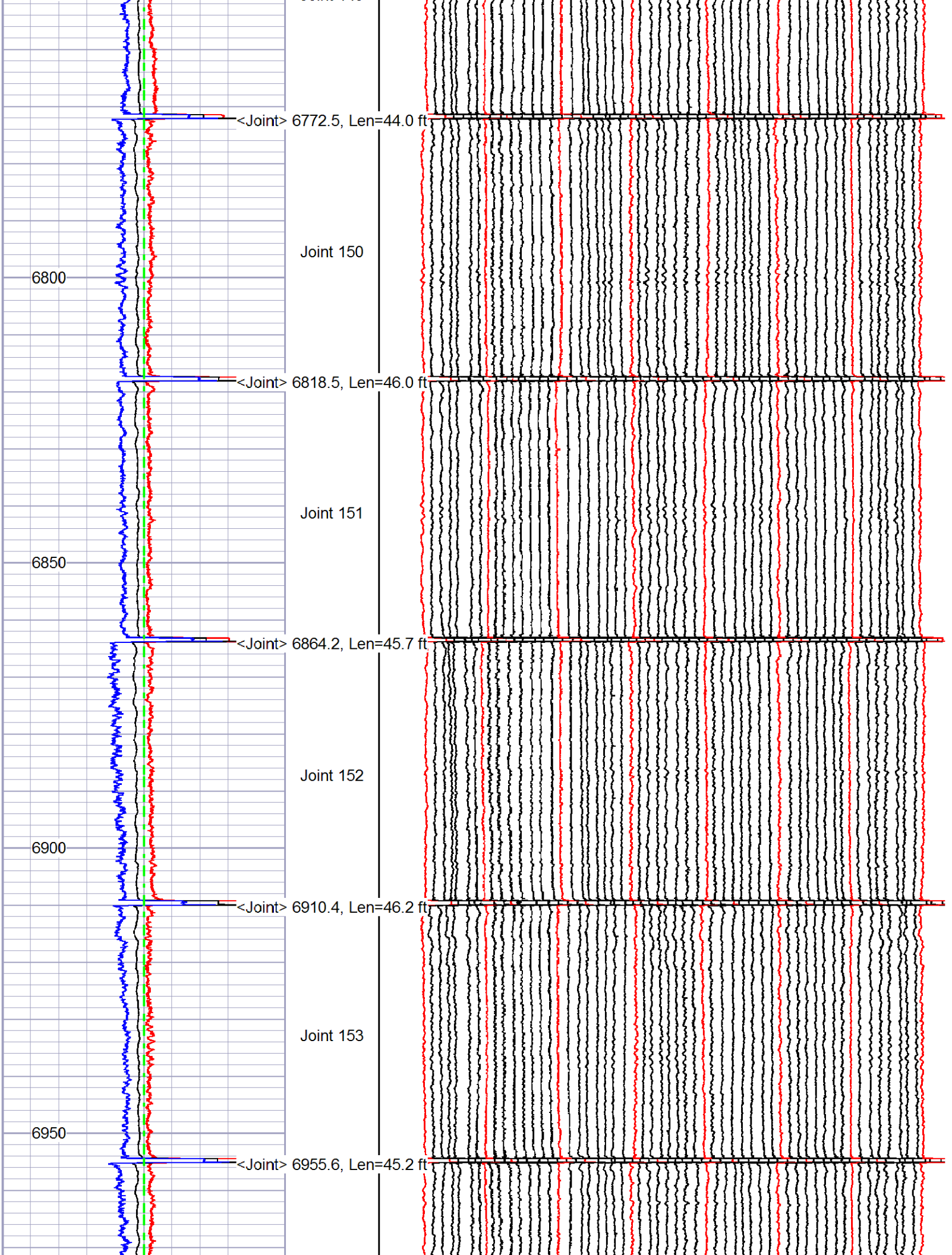
Joint 149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Joint 152
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Joint 153
6950
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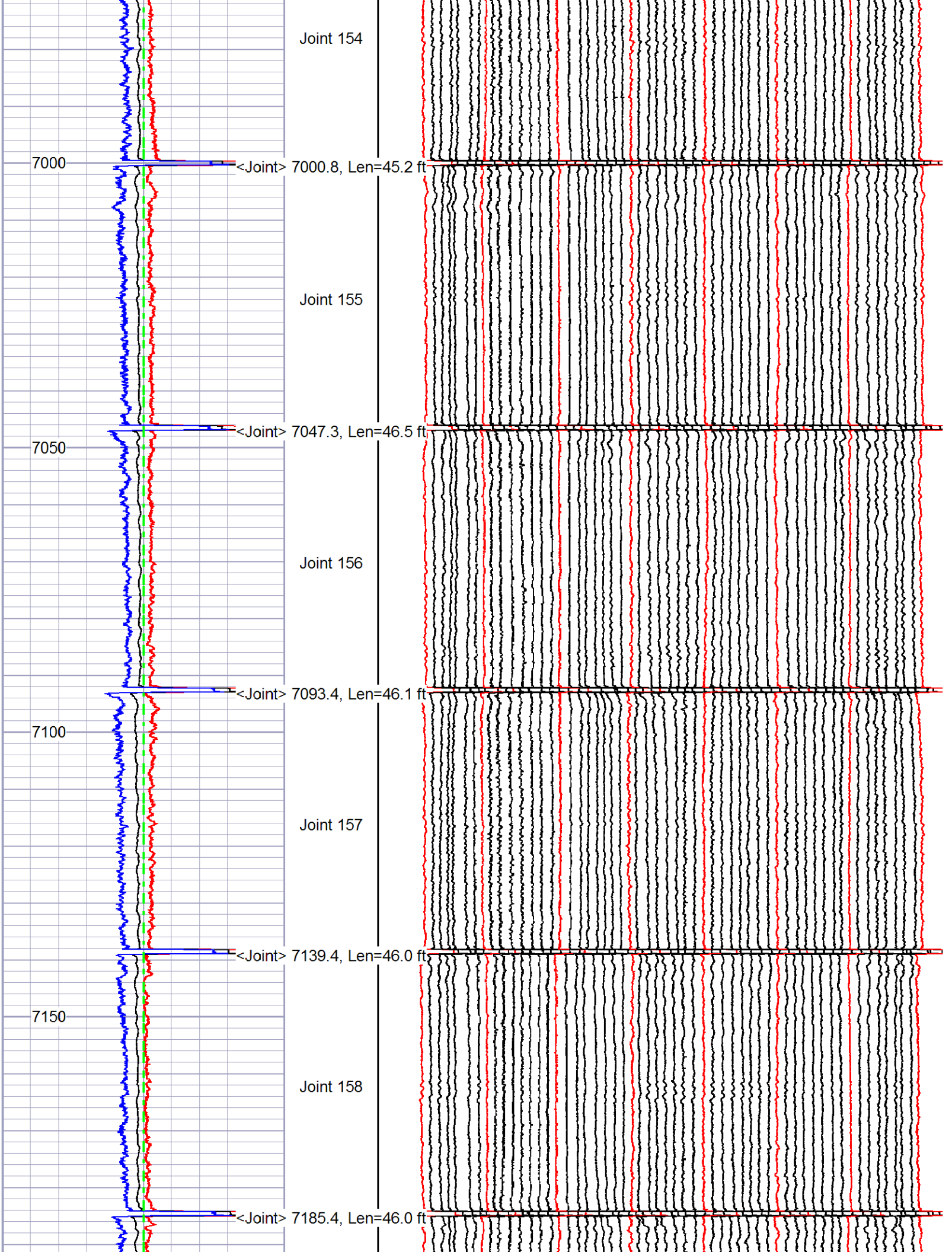
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Joint 155
7050
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Joint 156
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7100
Joint 157
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Joint 158
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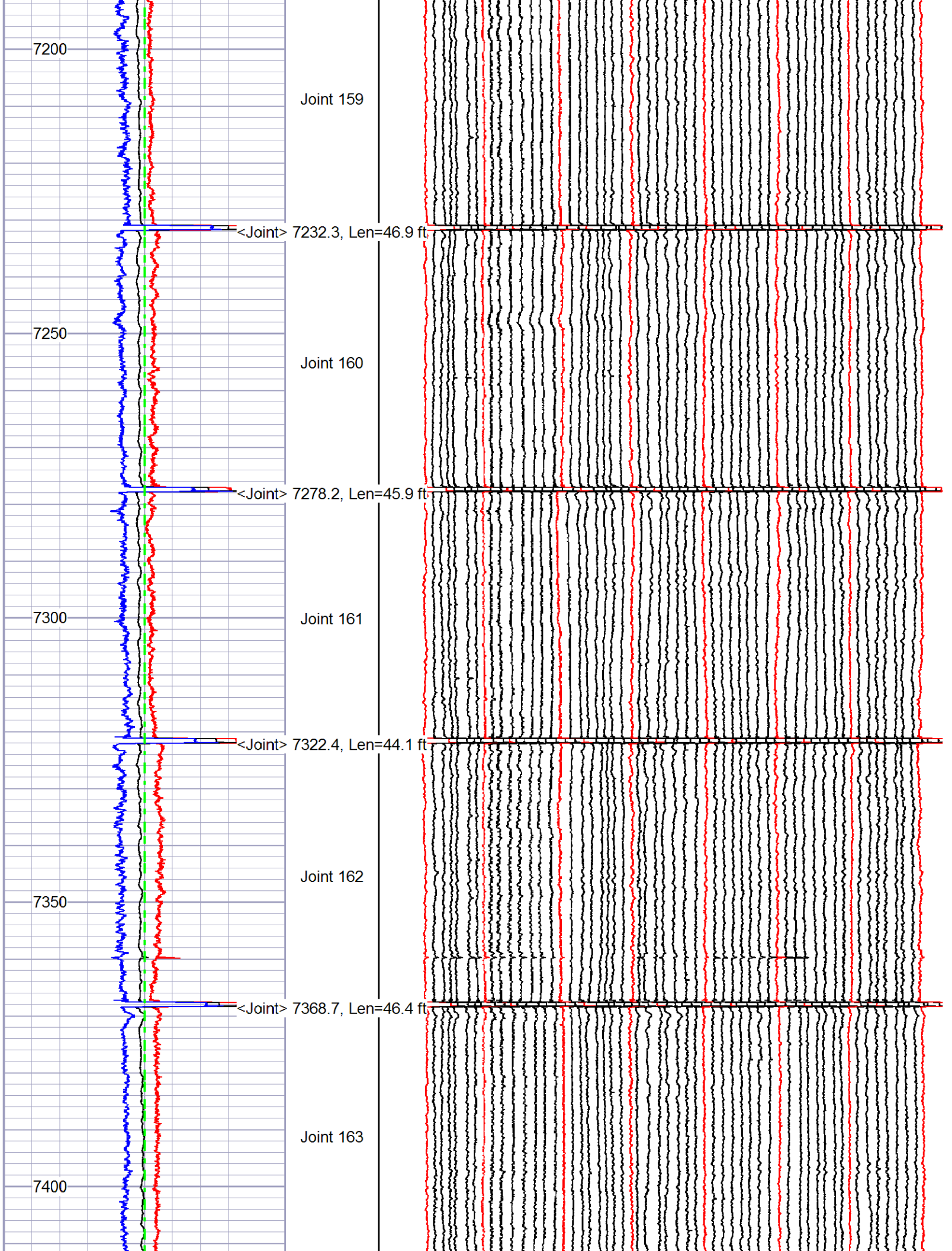
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Joint 160
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Joint 162
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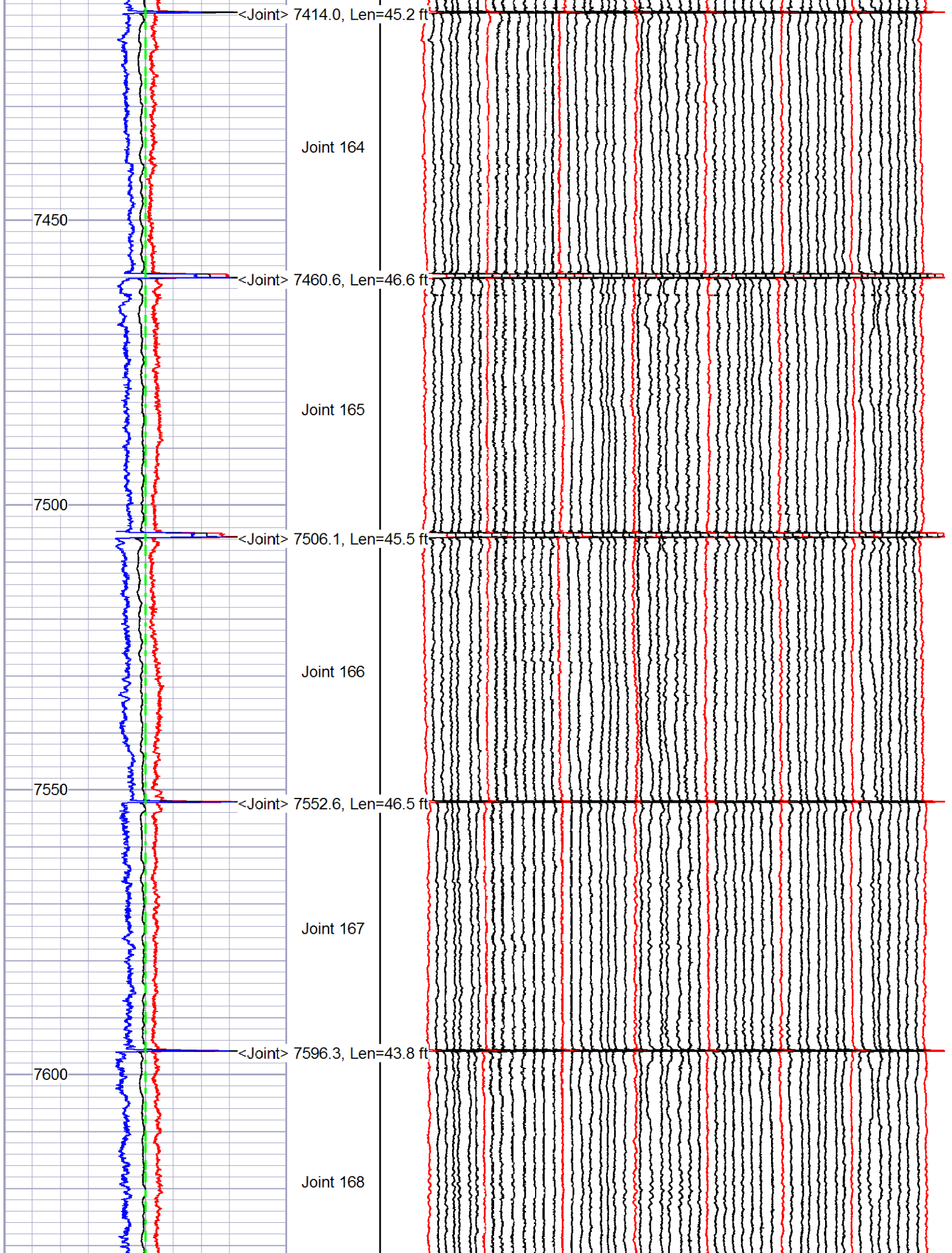
Joint 163
7400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Joint 165
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Joint 166
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Joint 167
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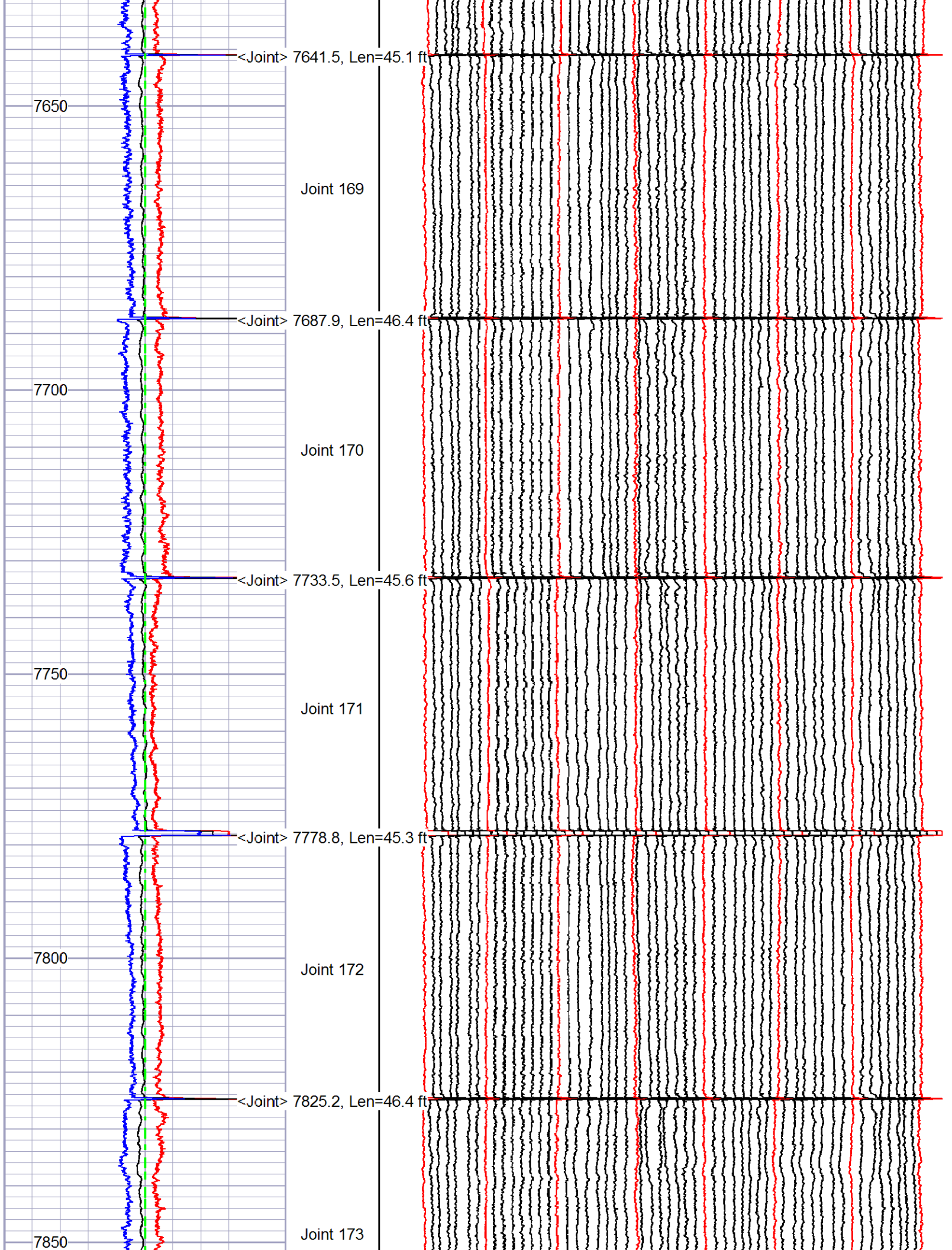
7600
Joint 168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Joint 169
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Joint 170
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Joint 171
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Joint 172
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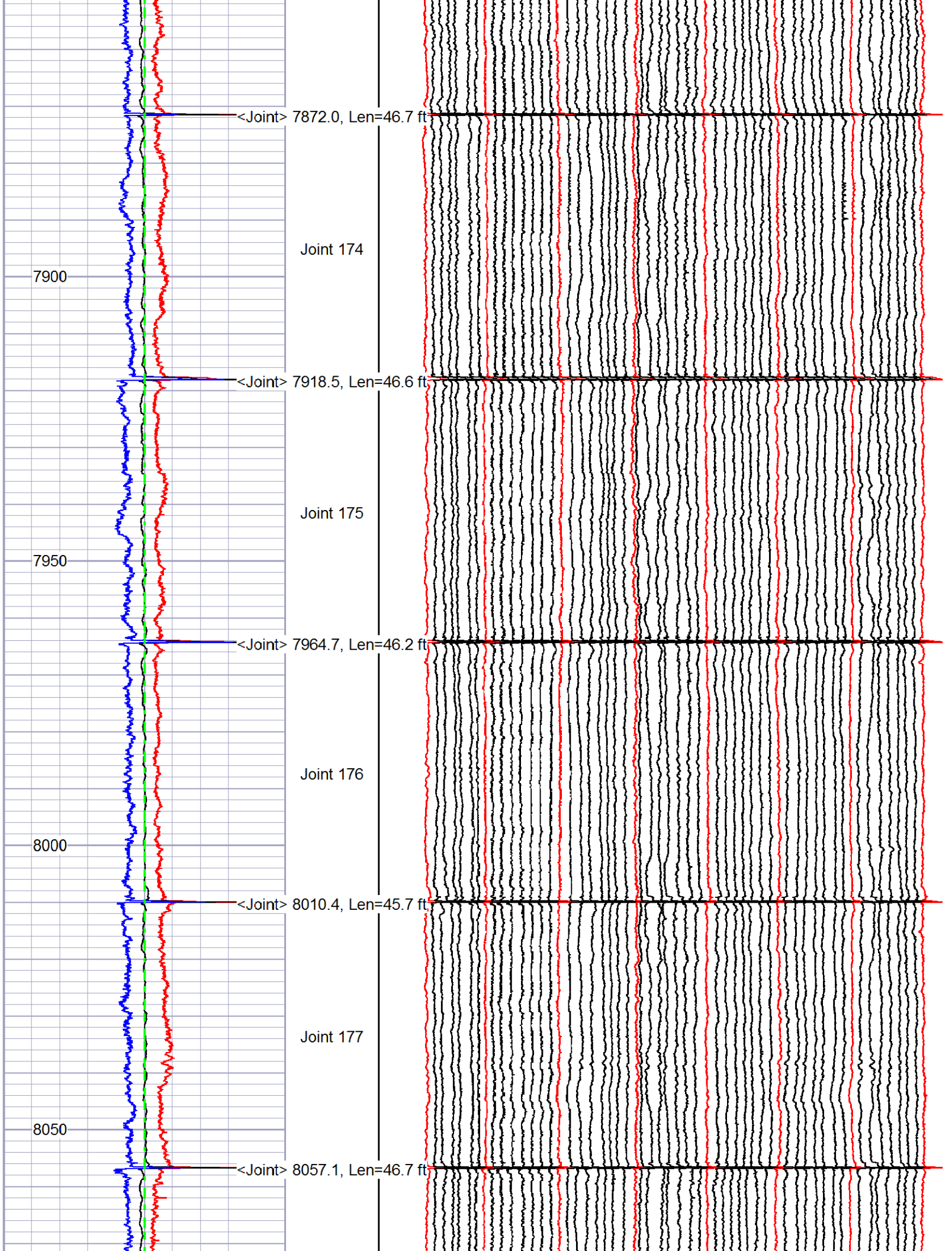
7850
Joint 173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Joint 175
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Joint 176
8000
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Joint 177
8050
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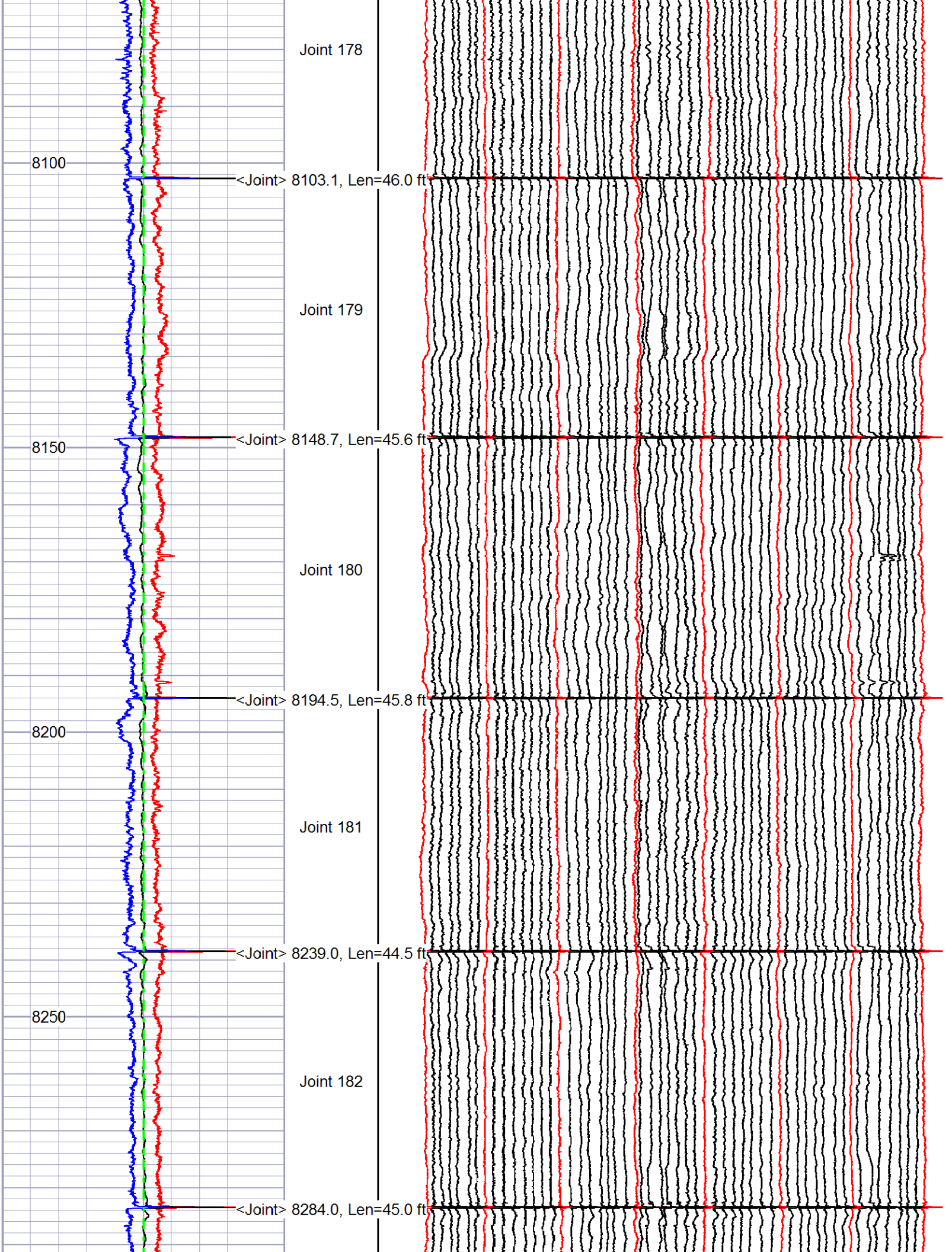
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Joint 179
8150
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Joint 180
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Joint 181
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Joint 182
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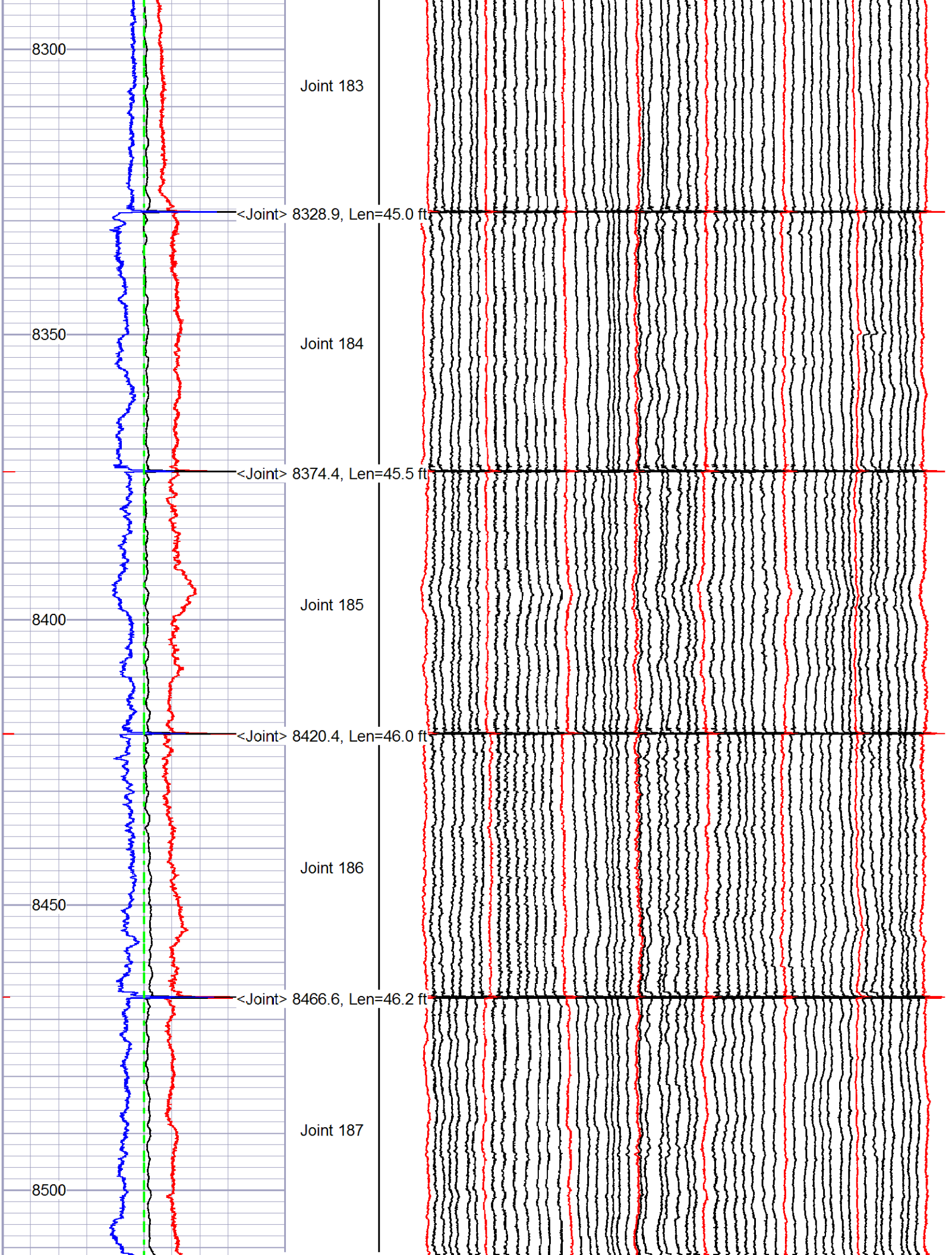
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Joint 183
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Joint 184
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Joint 185
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8450
Joint 186
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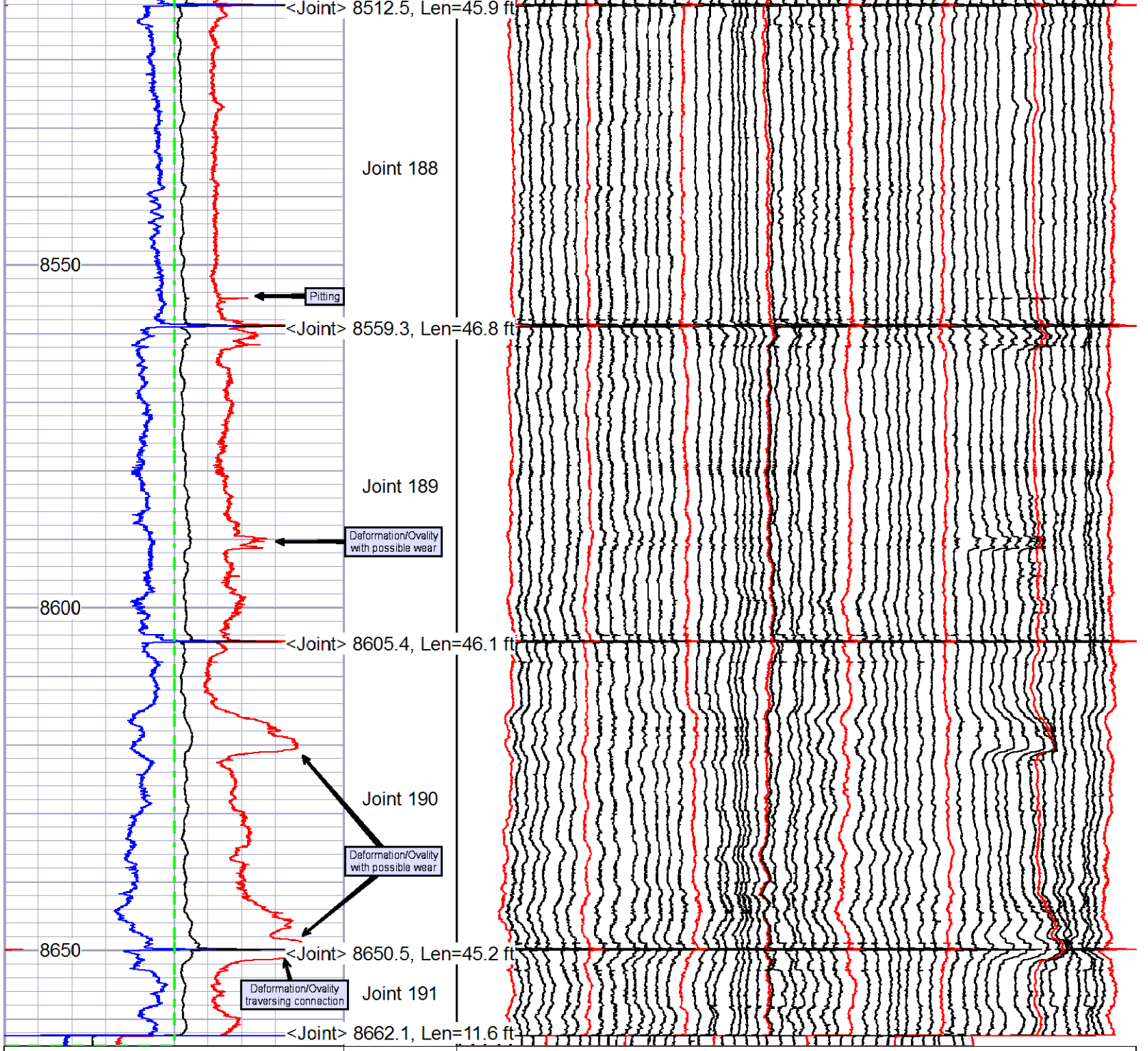
Joint 187
8500



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8.255	IDAV (in)	9.255				
8.255	IDMN (in)	9.255				
8.255	Nominal ID (in)	9.255				

Calibration Report

Database File	c:\users\waakjanl\desktop\incoming\hcal_socal_ss_4b\well info\cals.db
Dataset Pathname	pass2
Dataset Creation	Tue Aug 23 10:13:47 2016

GOWell 56 Arm Calibration Report

Serial Number:	10065
Tool Model:	56
Performed:	Wed Aug 17 07:48:23 2016

Ref ID:	6.00	7.00	8.00	9.00	9.25	Offset	in

Arm1	6.04	7.09	8.07	9.10	9.34	0.00	in
Arm2	6.00	7.01	7.97	8.97	9.22	0.00	in
Arm3	6.06	7.10	8.10	9.12	9.37	0.00	in
Arm4	5.91	6.95	7.92	8.98	9.22	0.00	in
Arm5	6.05	7.08	8.07	9.10	9.36	0.00	in
Arm6	6.06	7.06	8.04	9.04	9.30	0.00	in
Arm7	6.00	7.03	8.10	9.11	9.33	0.00	in
Arm8	6.03	7.04	8.07	9.06	9.31	0.00	in
Arm9	6.01	7.01	8.02	9.05	9.31	0.00	in
Arm10	6.21	7.20	8.19	9.20	9.46	0.00	in
Arm11	6.12	7.15	8.15	9.18	9.44	0.00	in
Arm12	6.08	7.05	8.05	9.06	9.32	0.00	in
Arm13	6.10	7.11	8.14	9.16	9.43	0.00	in
Arm14	6.20	7.16	8.14	9.16	9.42	0.00	in
Arm15	6.38	7.37	8.37	9.39	9.65	0.00	in
Arm16	6.41	7.42	8.41	9.43	9.68	0.00	in
Arm17	6.05	7.05	8.06	9.10	9.37	0.00	in
Arm18	6.26	7.24	8.23	9.24	9.50	0.00	in
Arm19	5.97	6.99	8.01	9.04	9.32	0.00	in
Arm20	6.20	7.20	8.17	9.17	9.43	0.00	in
Arm21	6.15	7.15	8.15	9.17	9.44	0.00	in
Arm22	6.30	7.28	8.25	9.24	9.50	0.00	in
Arm23	6.24	7.23	8.21	9.22	9.48	0.00	in
Arm24	6.19	7.19	8.18	9.19	9.45	0.00	in
Arm25	5.98	6.94	7.96	8.95	9.21	0.00	in
Arm26	6.16	7.16	8.16	9.18	9.44	0.00	in
Arm27	6.14	7.14	8.12	9.14	9.39	0.00	in
Arm28	6.28	7.29	8.25	9.28	9.51	0.00	in
Arm29	6.18	7.19	8.16	9.19	9.44	0.00	in
Arm30	6.27	7.26	8.23	9.24	9.49	0.00	in

* Bad

GOWell 56 Arm Calibration Report

Serial Number:
Tool Model:
Performed:

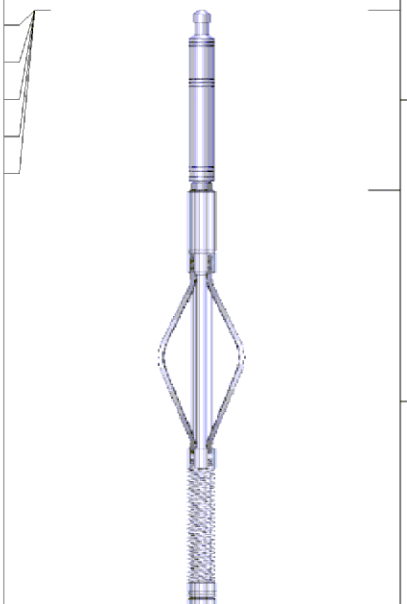
Ref ID:	6.00	7.00	8.00	9.00	9.25	Offset	in
Arm31	6.23	7.25	8.19	9.26	9.48	0.00	in
Arm32	6.10	7.09	8.07	9.08	9.32	0.00	in
Arm33	6.39	7.39	8.37	9.36	9.60	0.00	in
Arm34	6.35	7.34	8.30	9.29	9.53	0.00	in
Arm35	6.24	7.29	8.25	9.25	9.49	0.00	in
Arm36	6.39	7.31	8.25	9.23	9.47	0.00	in
Arm37	6.19	7.19	8.15	9.14	9.38	0.00	in
Arm38	6.15	7.13	8.04	9.05	9.30	0.00	in
Arm39	5.94	6.94	7.95	8.94	9.17	0.00	in
Arm40	6.20	7.21	8.14	9.15	9.39	0.00	in
Arm41	6.05	7.08	8.04	9.06	9.29	0.00	in
Arm42	6.08	7.13	8.04	9.06	9.30	0.00	in
Arm43	6.10	7.14	8.08	9.08	9.32	0.00	in
Arm44	6.76	7.70	8.65	9.62	9.83	0.00	in
Arm45	5.93	6.99	7.96	8.99	9.24	0.00	in
Arm46	6.06	7.12	8.07	9.10	9.32	0.00	in
Arm47	5.99	7.03	8.00	9.02	9.26	0.00	in
Arm48	5.94	6.98	7.96	8.98	9.22	0.00	in
Arm49	5.99	7.04	8.03	9.06	9.30	0.00	in
Arm50	6.12	7.14	8.09	9.09	9.32	0.00	in
Arm51	5.99	7.03	7.99	9.02	9.26	0.00	in
Arm52	6.09	7.13	8.10	9.10	9.34	0.00	in
Arm53	5.93	6.97	7.95	8.98	9.22	0.00	in
Arm54	6.11	7.13	8.06	9.06	9.30	0.00	in
Arm55	6.14	7.17	8.14	9.14	9.39	0.00	in
Arm56	6.01	7.03	7.99	9.02	9.26	0.00	in

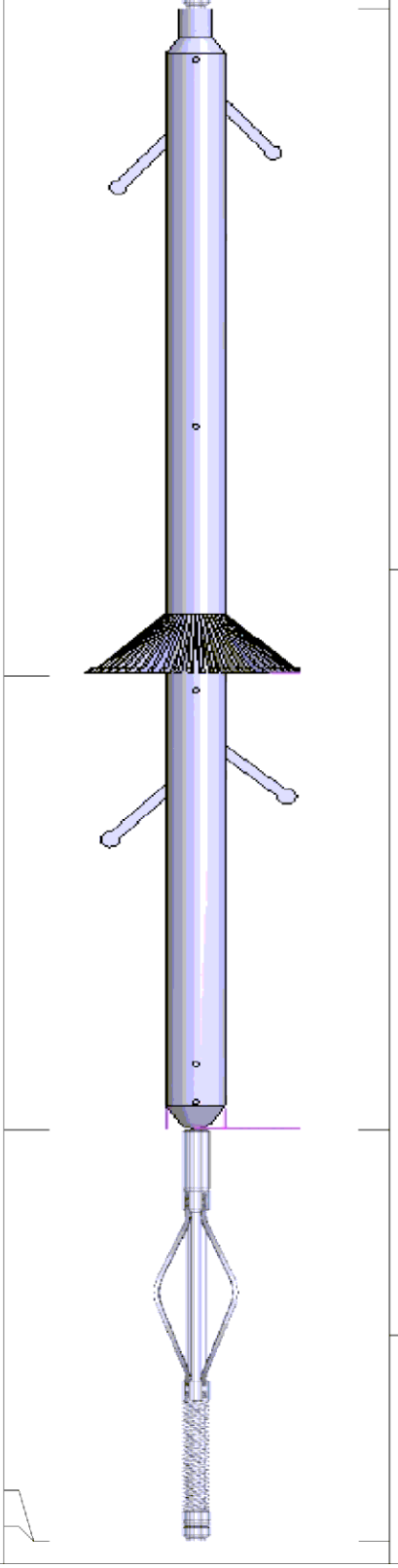
Arm57		in
Arm58		in
Arm59		in
Arm60		in

* Bad

GOWell 56 Arm Verification Report

	Pre Verification	Post Verification	Casing Check	
Performed:	Wed Aug 17 07:50:33 2016	Wed Aug 17 16:34:47 2016	Wed Aug 17 16:01:35 2016	
Ref ID:	8.00	8.00	8.68	in
Min.	7.93	7.90	8.71	in
Max.	8.01	7.99	8.80	in
Avg.	7.98	7.95	8.75	in
Dia1	7.97	7.95	8.72	in
Dia2	7.99	7.96	8.73	in
Dia3	7.97	7.96	8.73	in
Dia4	7.98	7.95	8.72	in
Dia5	8.00	7.96	8.74	in
Dia6	7.99	7.94	8.75	in
Dia7	7.93	7.90	8.71	in
Dia8	7.97	7.92	8.76	in
Dia9	7.98	7.96	8.76	in
Dia10	7.99	7.94	8.75	in
Dia11	7.98	7.96	8.78	in
Dia12	7.98	7.94	8.79	in
Dia13	7.97	7.96	8.77	in
Dia14	7.98	7.97	8.77	in
Dia15	7.98	7.97	8.80	in
Dia16	7.99	7.94	8.78	in
Dia17	7.99	7.98	8.74	in
Dia18	7.98	7.95	8.74	in
Dia19	7.97	7.95	8.72	in
Dia20	7.98	7.94	8.72	in
Dia21	7.96	7.94	8.76	in
Dia22	7.98	7.94	8.75	in
Dia23	8.01	7.99	8.78	in
Dia24	8.00	7.94	8.75	in
Dia25	7.99	7.96	8.77	in
Dia26	7.99	7.95	8.77	in
Dia27	8.00	7.97	8.77	in
Dia28	7.97	7.94	8.76	in

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
BPRES	12.45					
PPRES	12.45					
TOTBBL	12.45		CHD-STNDRD Standard Cable Head	1.03	1.45	10.00
PRATE	12.45					
LTENUSR	12.45					
			CENT-Probe169 1 11/16" Probe Slim Hole Centralizer	2.42	1.69	10.00



		XIPEMAC-56 (10065) Hotwell 56 Arm caliper	6.58	3.50	100.00
Meas	5.08				
Aux1	2.42	CENT-Probe169 1 11/16" Probe Slim Hole Centralizer	2.42	1.69	10.00
LOCTIM	0.00				
UTCTIM	0.00				

Dataset:	ss4b.db: field/well/run1/pass2
Total length:	12.45 ft
Total weight:	130.00 lb
O.D.:	3.50 in

BAKER HUGHES

Company	SOUTHERN CALIFORNIA GAS COMPANY
Well	STANDARD SESNON 4B
Field	ALISO CANYON
County	LOS ANGELES
State	CALIFORNIA