56-ARM CALIPER LOG

Company	SOUTHERN CALIFORNIA GAS COMPANY
Well	FERNANDO FEE 38C
Field	ALISO CANYON
County	LOS ANGELES
State	CALIFORNIA

Company SOUTHERN CALIFORNIA GAS COMPANY
Well FERNANDO FEE 38C
Field ALISO CANYON
County LOS ANGELES
State CALIFORNIA

Location: API # : 04-037-24232

SEC 27 TWP 3N RGE 16W

Other Services: HRVRT

Permanent Datum	GROUND LEVEL	Elevation	1708.0
Log Measured From	KELLY BUSHING - 32.0' AGL		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 1740.0
D.F. 1739.0
G.L. 1708.0

Date	MAR. 23, 2016		
Run Number	1		
Service Order	US106530		
Depth Driller	7366.0		
Depth Logger	6781.0		
Bottom Logged Interval	6776.0		
Top Log Interval	SURFACE		
Type Fluid	KCL		
Density / Viscosity	8.5		
Max. Recorded Temp.	151.0		
Estimated Cement Top			
Time Well Ready	0700		
Time Logger on Bottom	0800		
Equipment Number	4243		
Location	OKC, OK		
Recorded By	B. DEAL, S. GORNTO		
Witnessed By	JEFF SANDOVAL		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13.375	54.5	0	862.0
Prot. String				
Production String	9.625	47.0	0	7326.0
Liner	5.5	17.0	7029.0	7354.0

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In making interpretations 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.

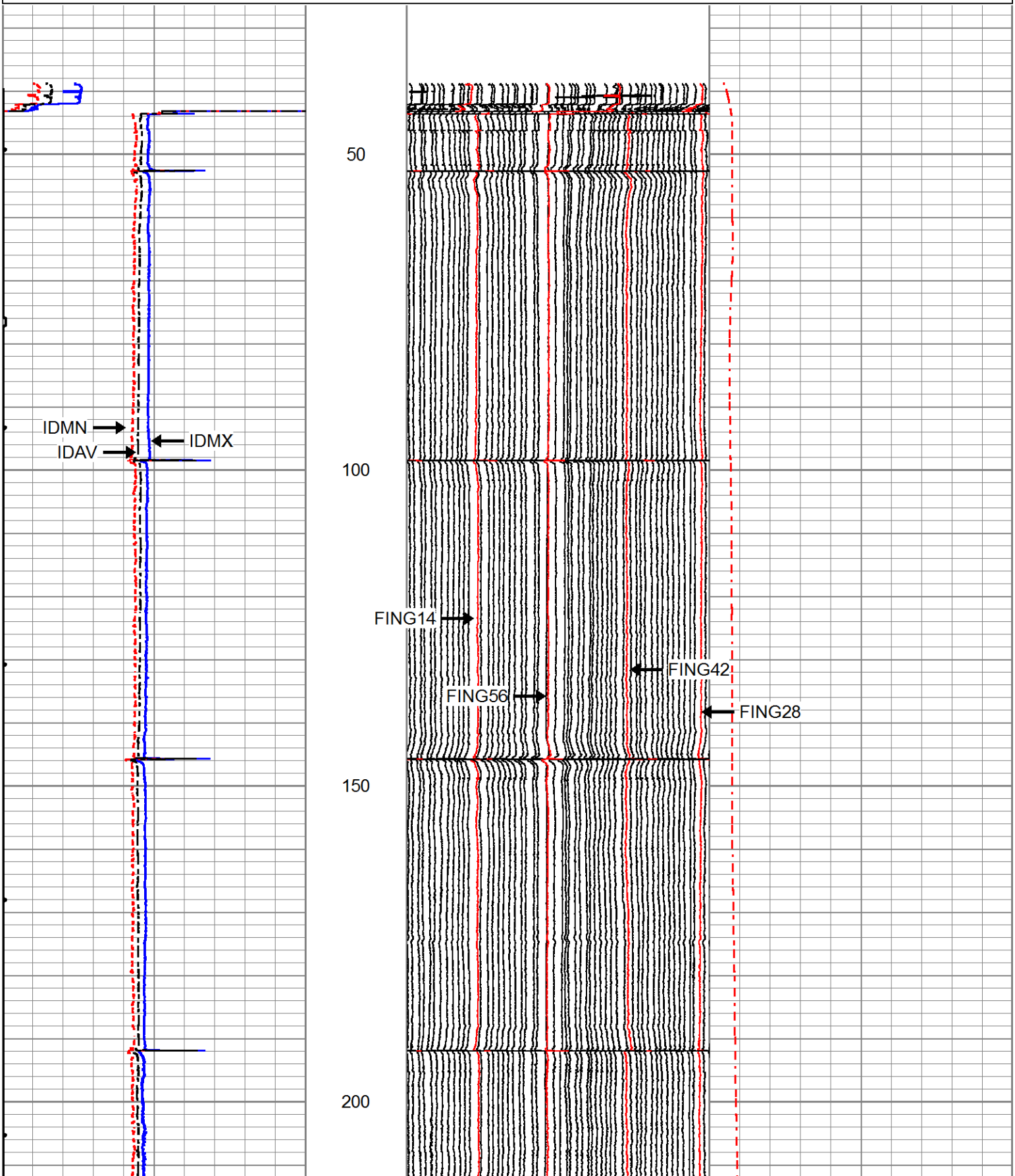
Comments

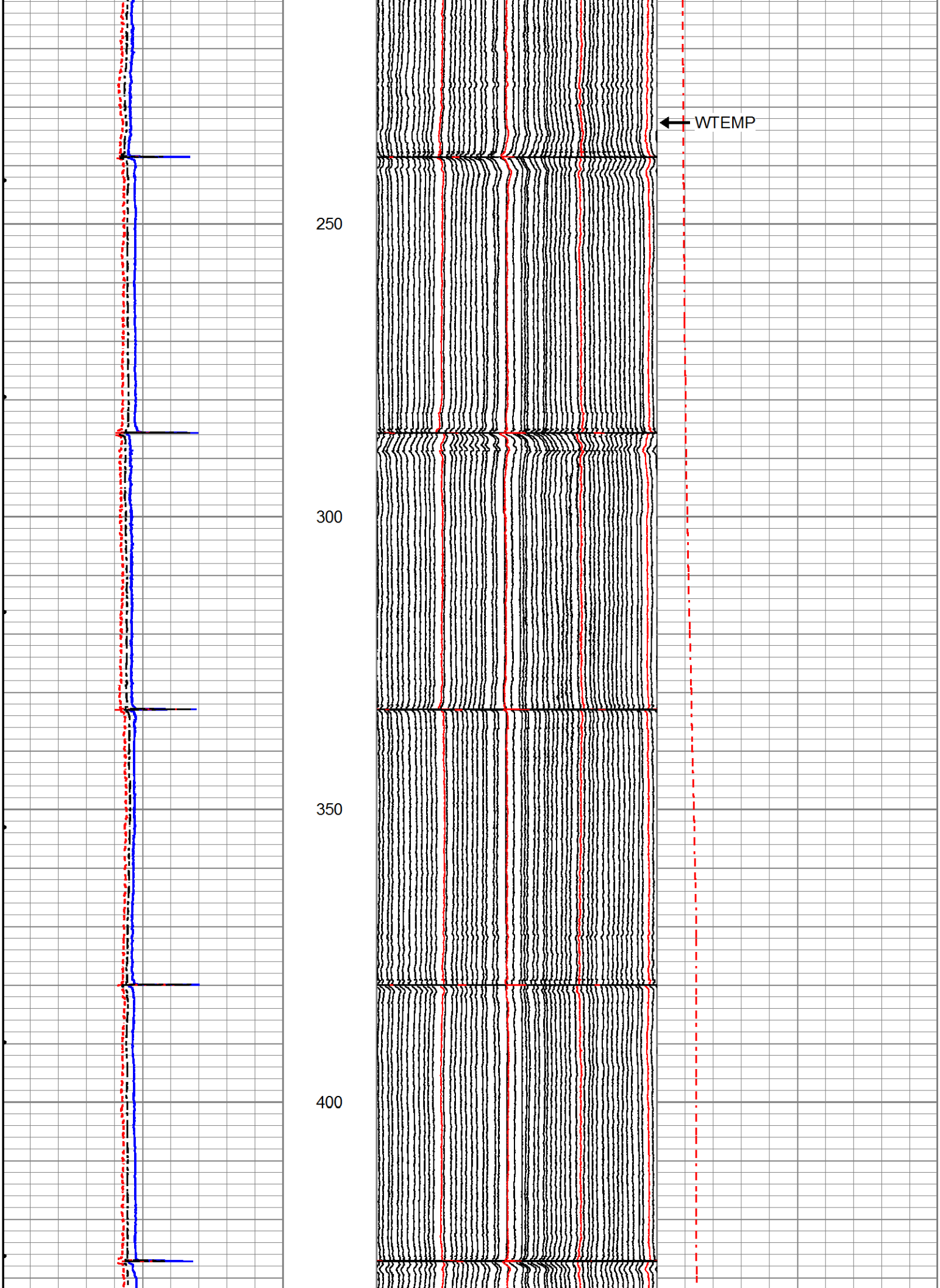
LOG CORRELATED TO BAKER ATLAS SBT LOG DATED 2-25-03
LOGGED 35 FPM

MAIN PASS

Database File	ff 38c.db
Dataset Pathname	pass3
Presentation Format	56_958
Dataset Creation	Wed Mar 23 08:01:43 2016
Charted by	Depth in Feet scaled 1:240

7.861	Max ID (in)	9.861	56 RADII .05" INC.	70	WTEMP (degF)	170
7.861	Min ID (in)	9.861				
7.861	IDAV (in)	9.861				

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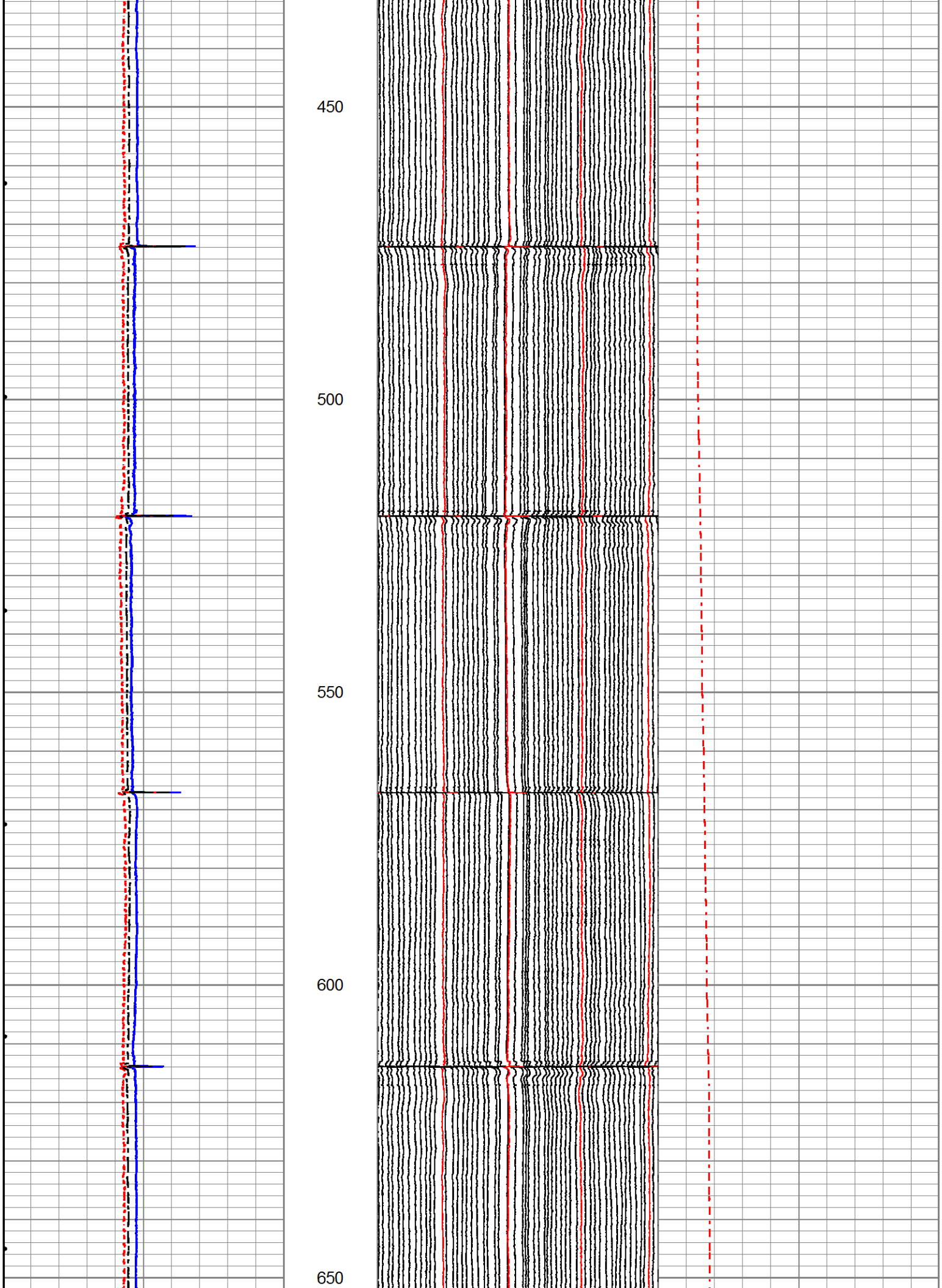
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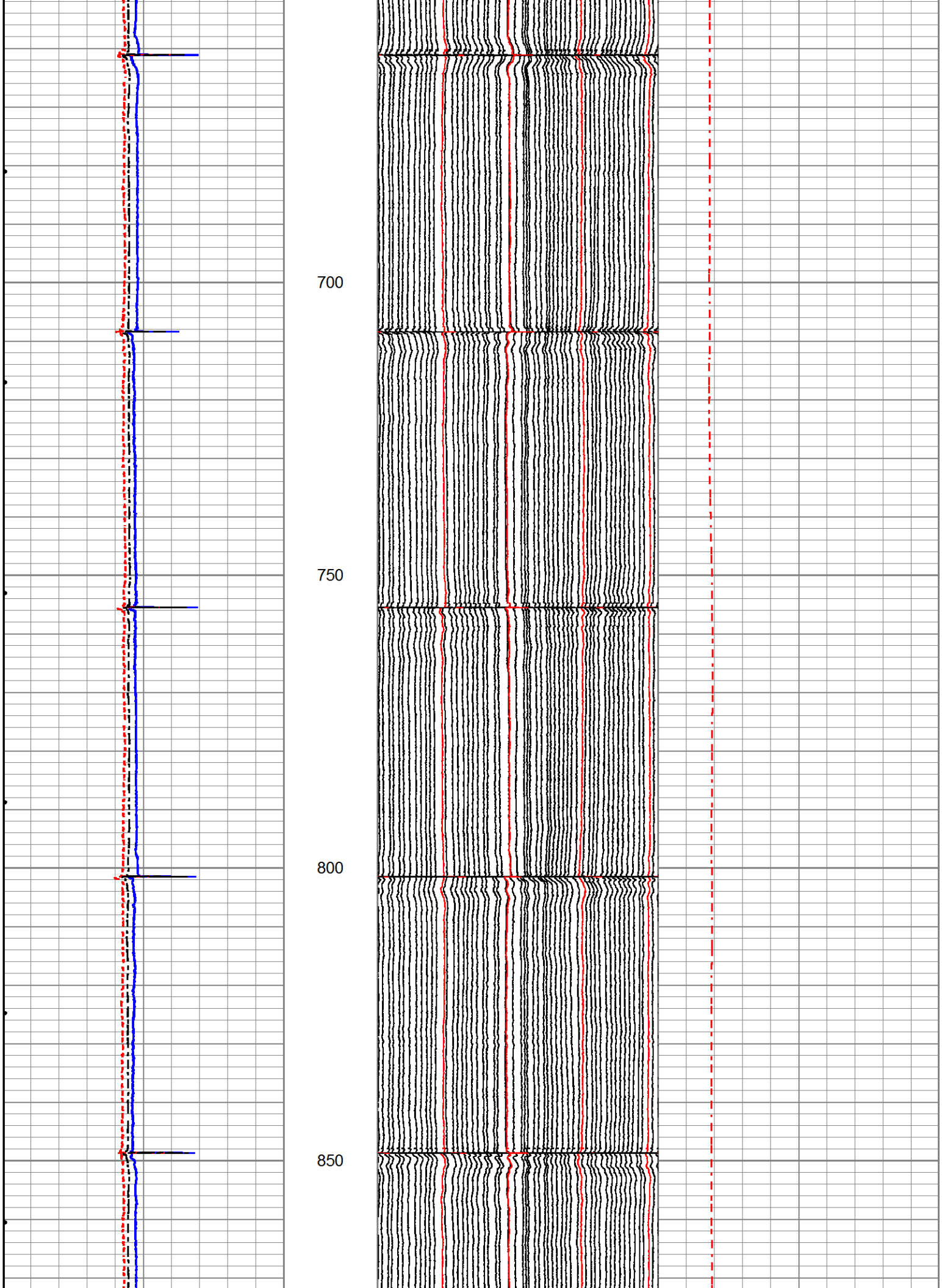
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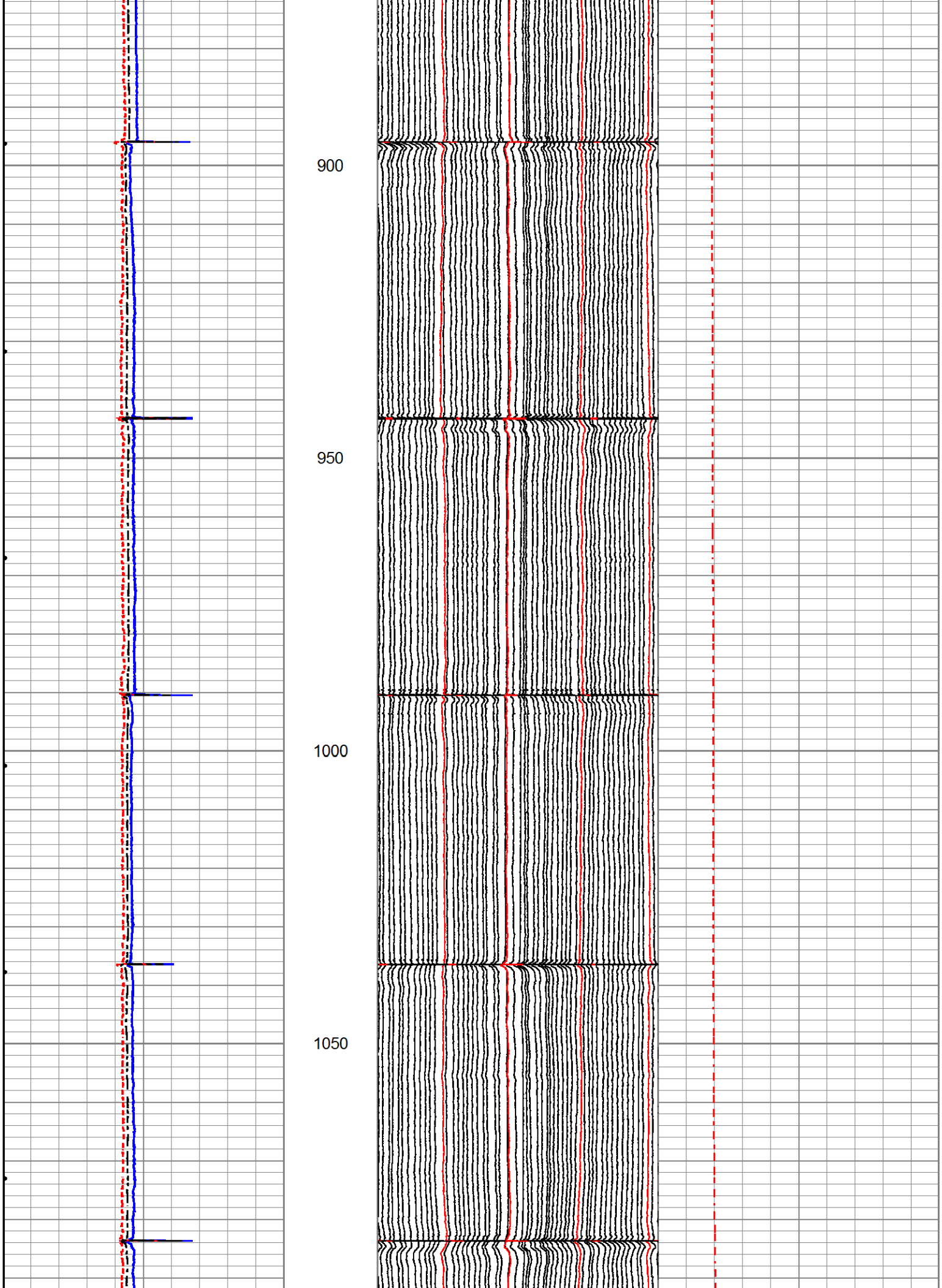
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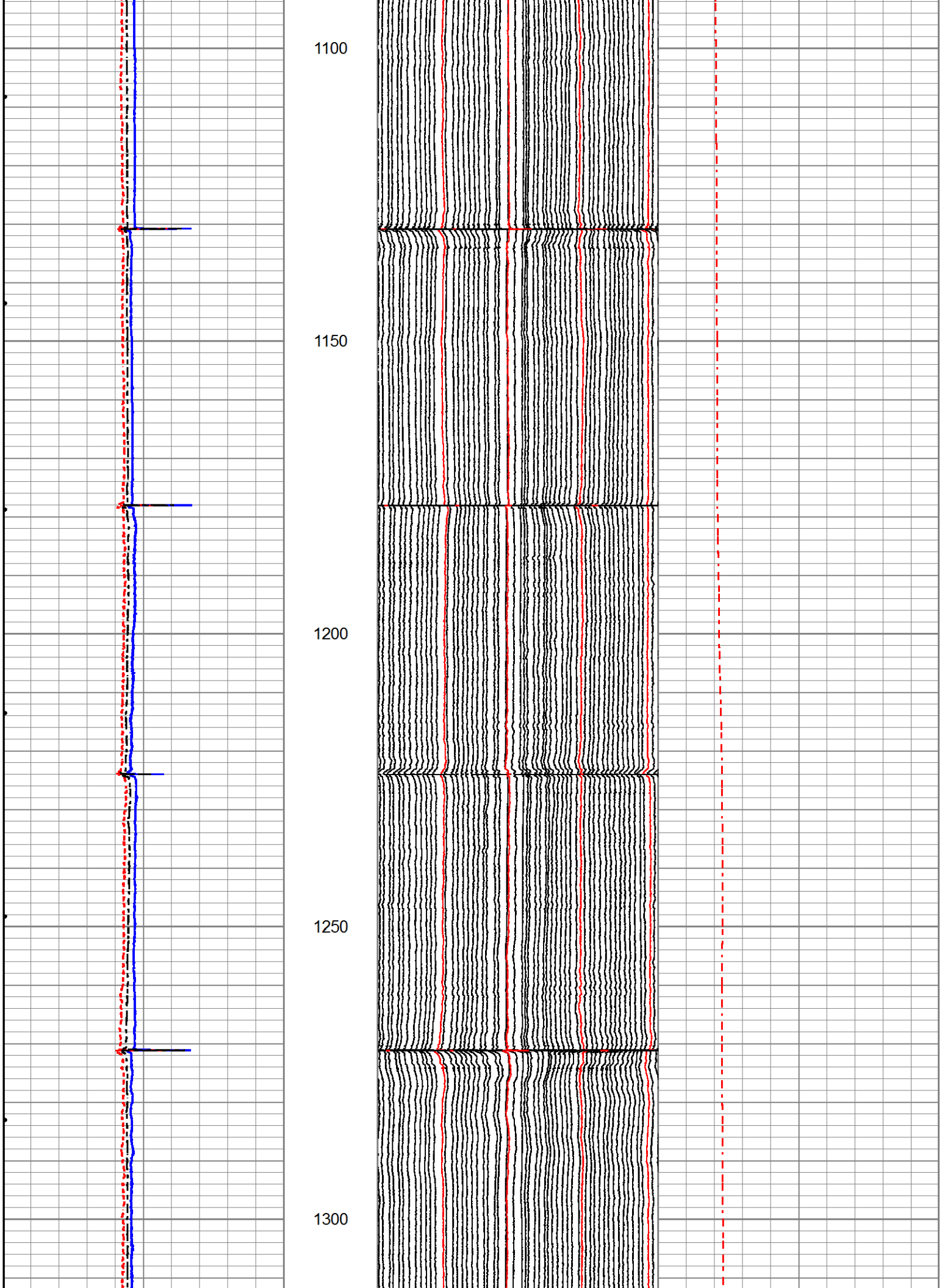
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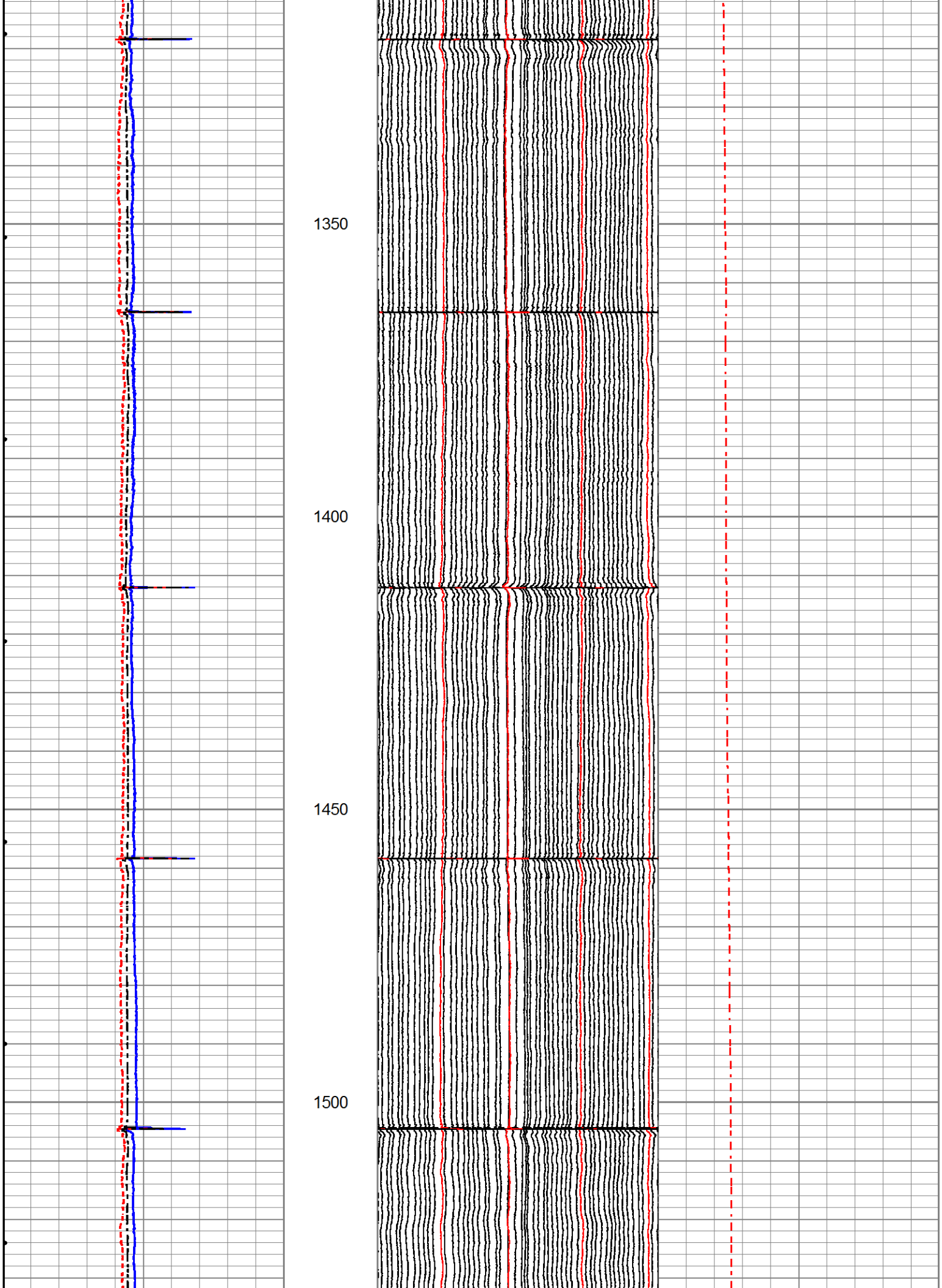
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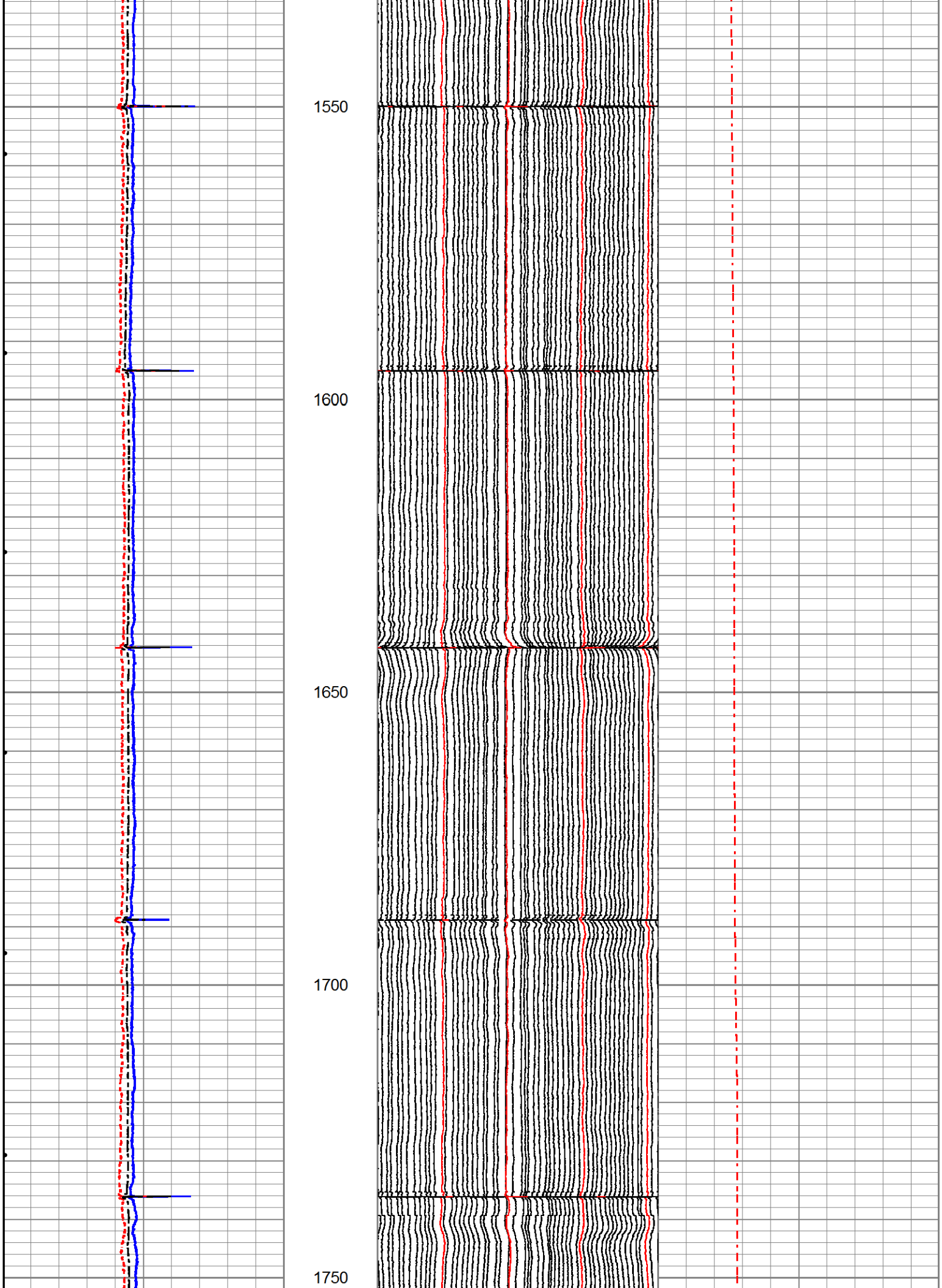
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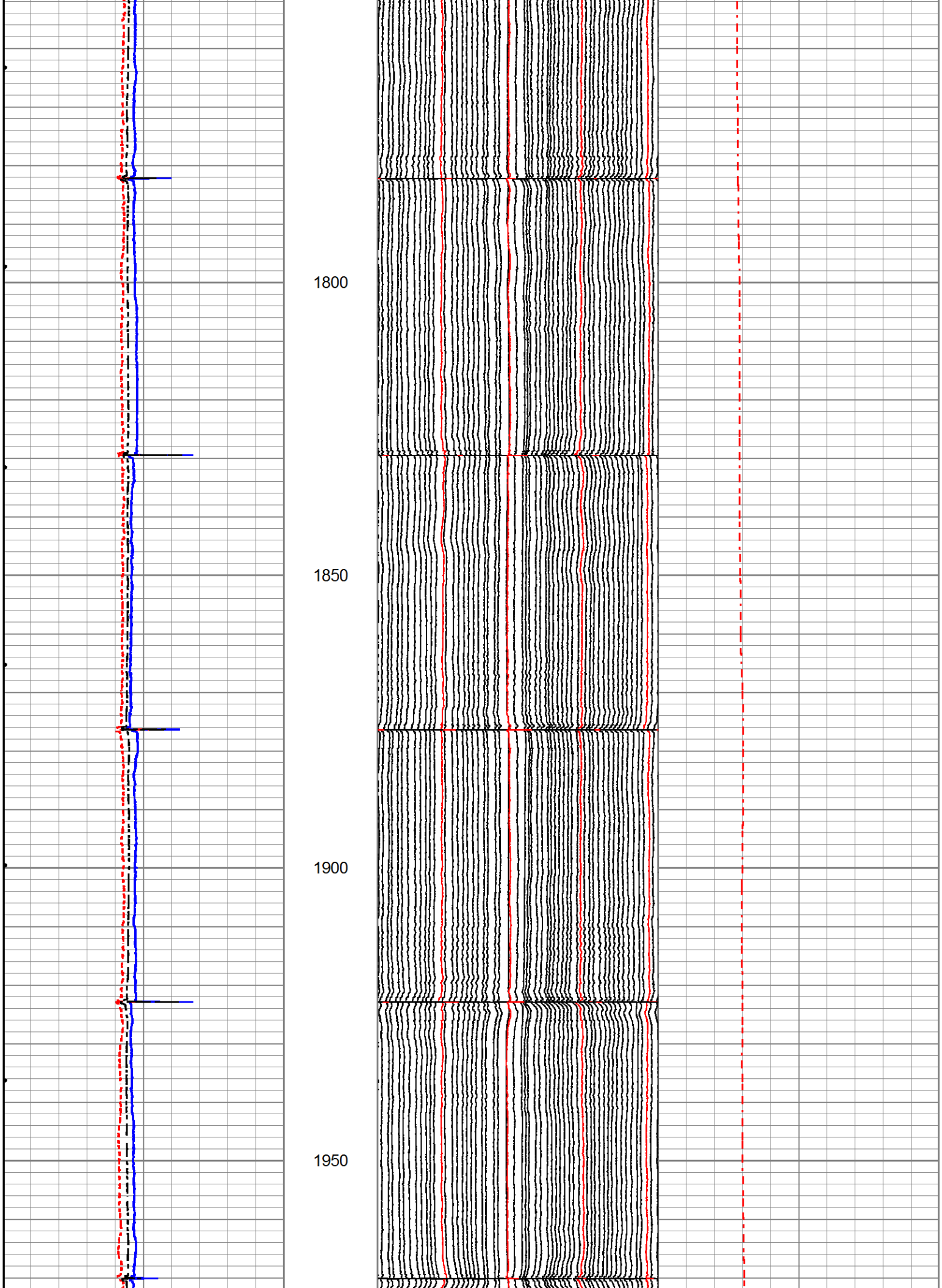
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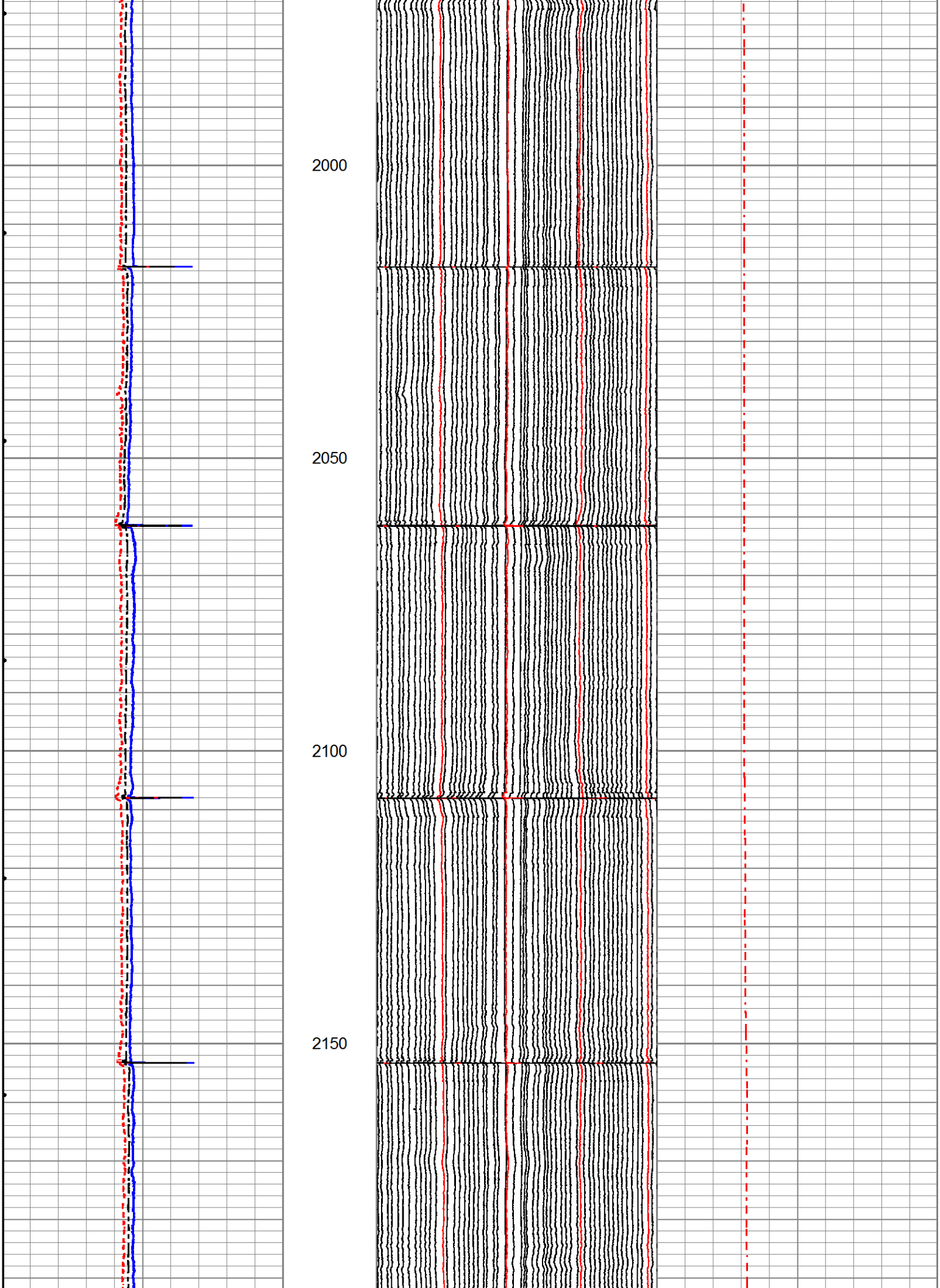
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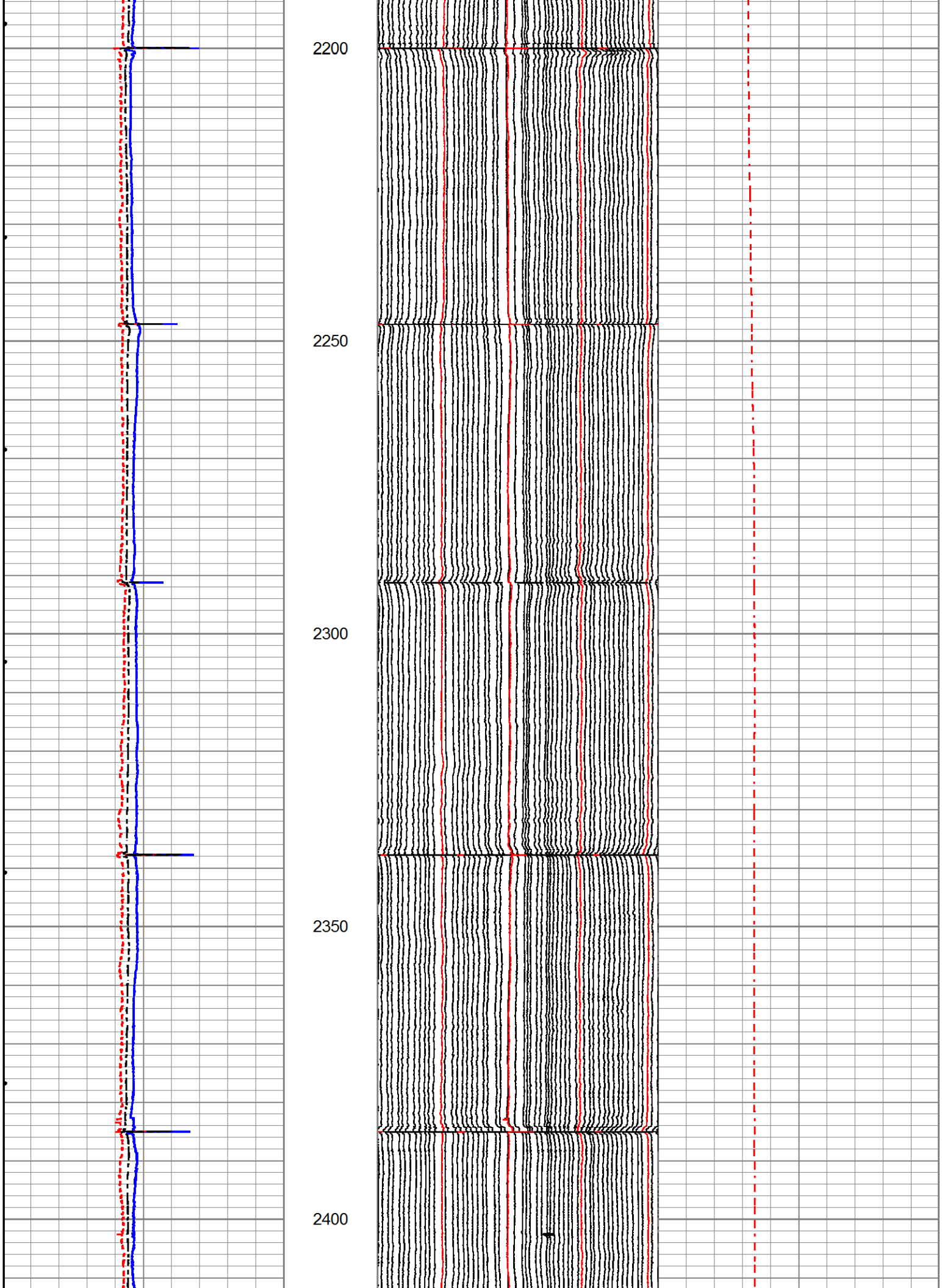
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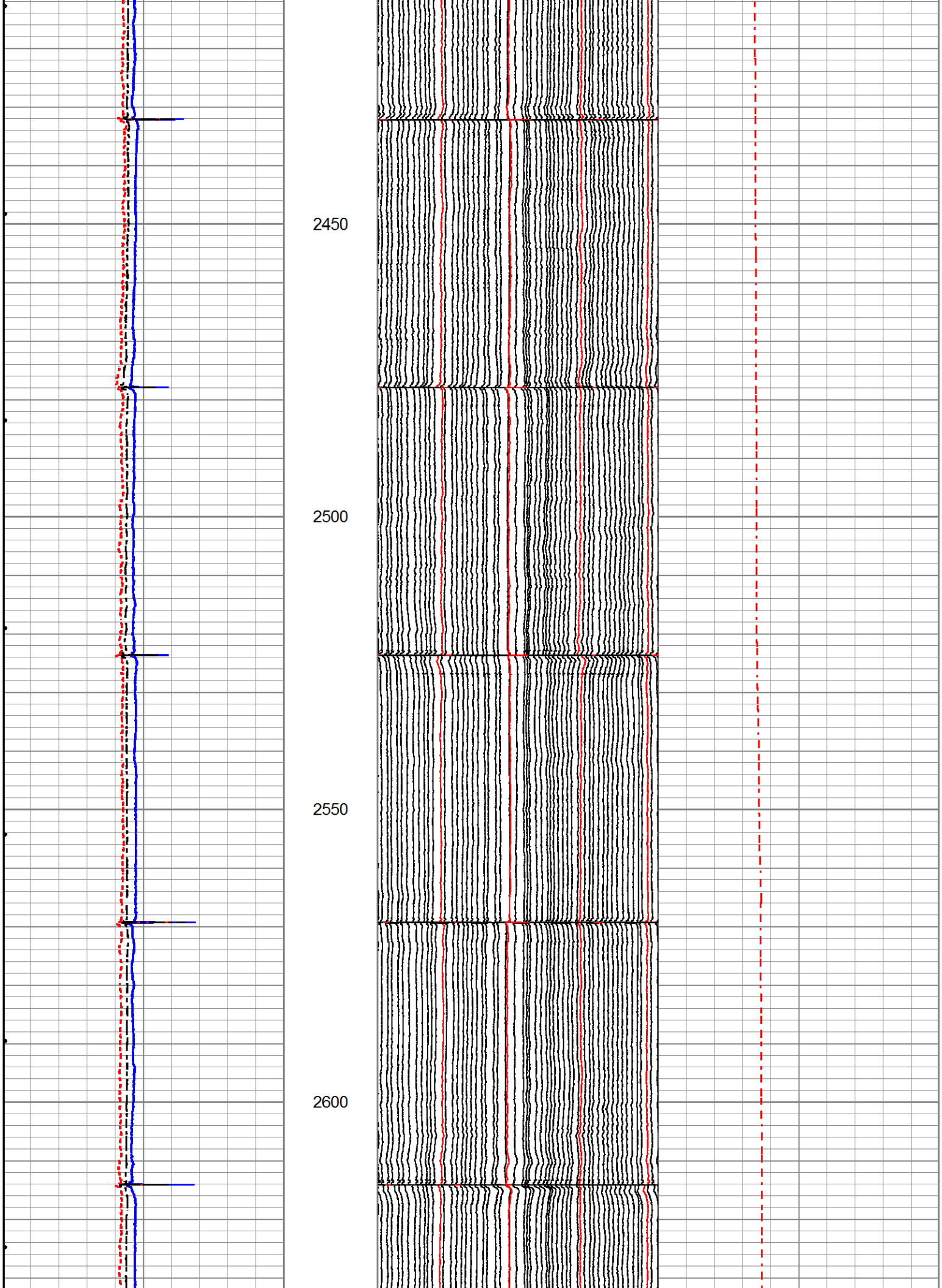
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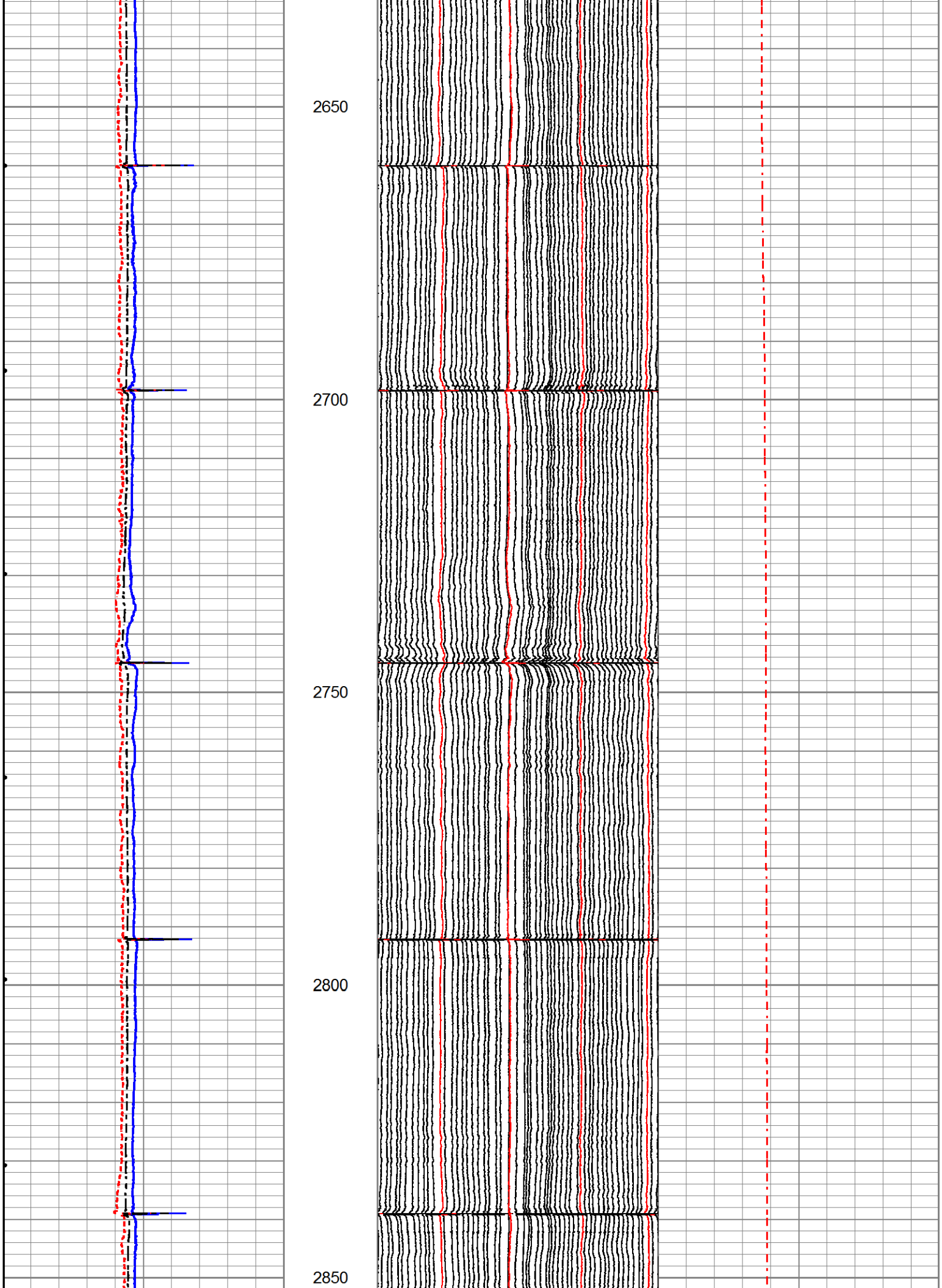
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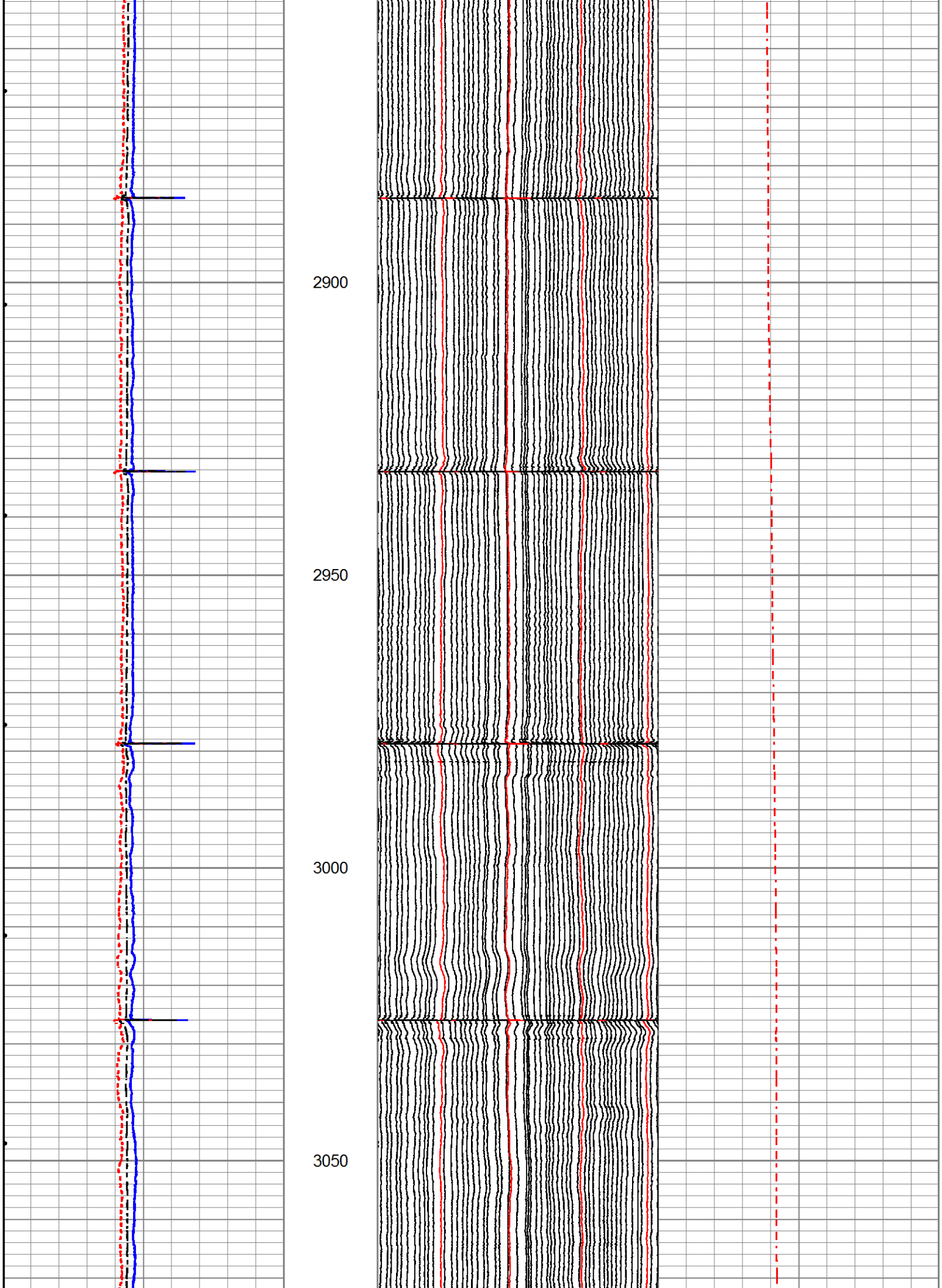
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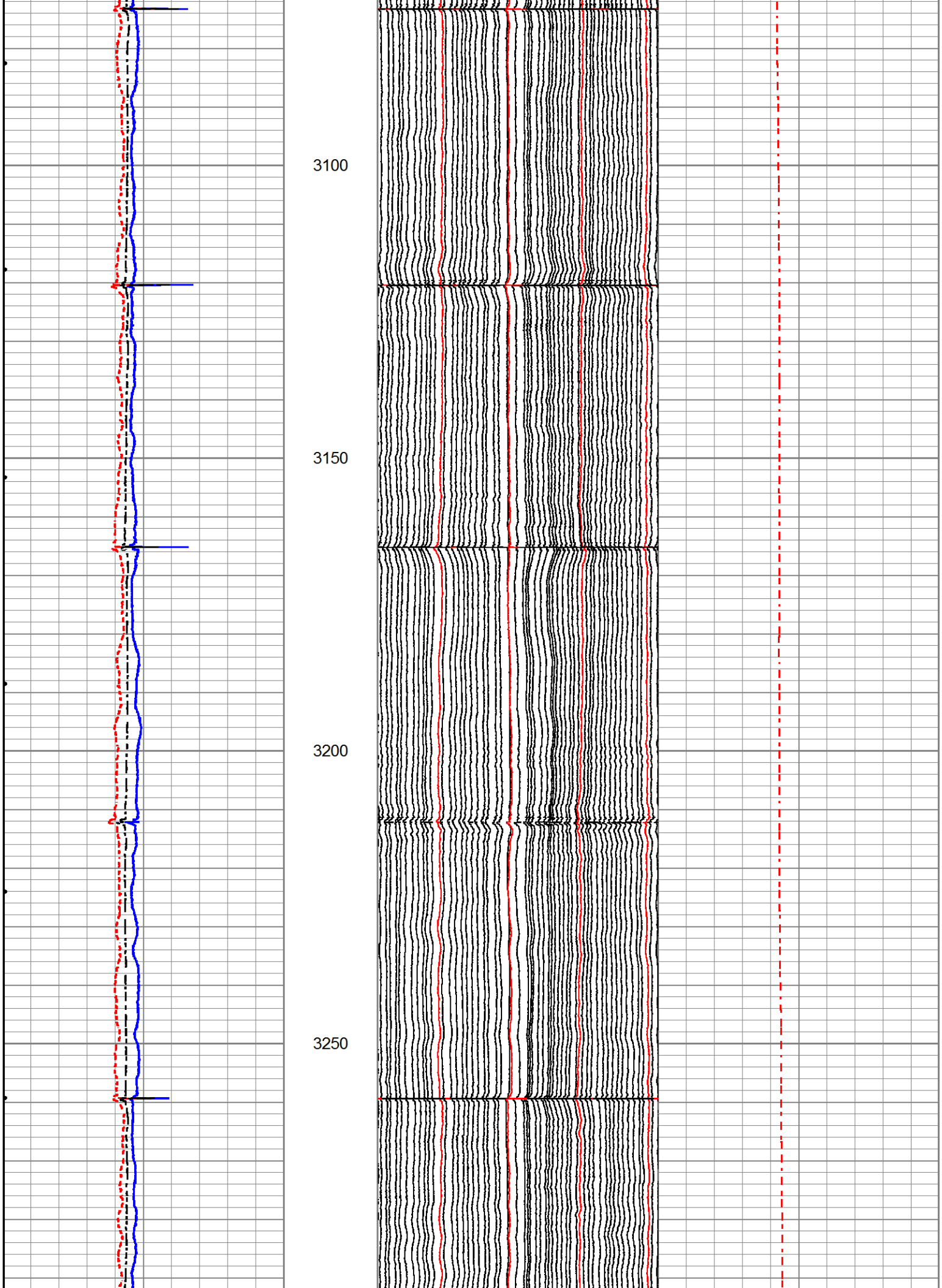
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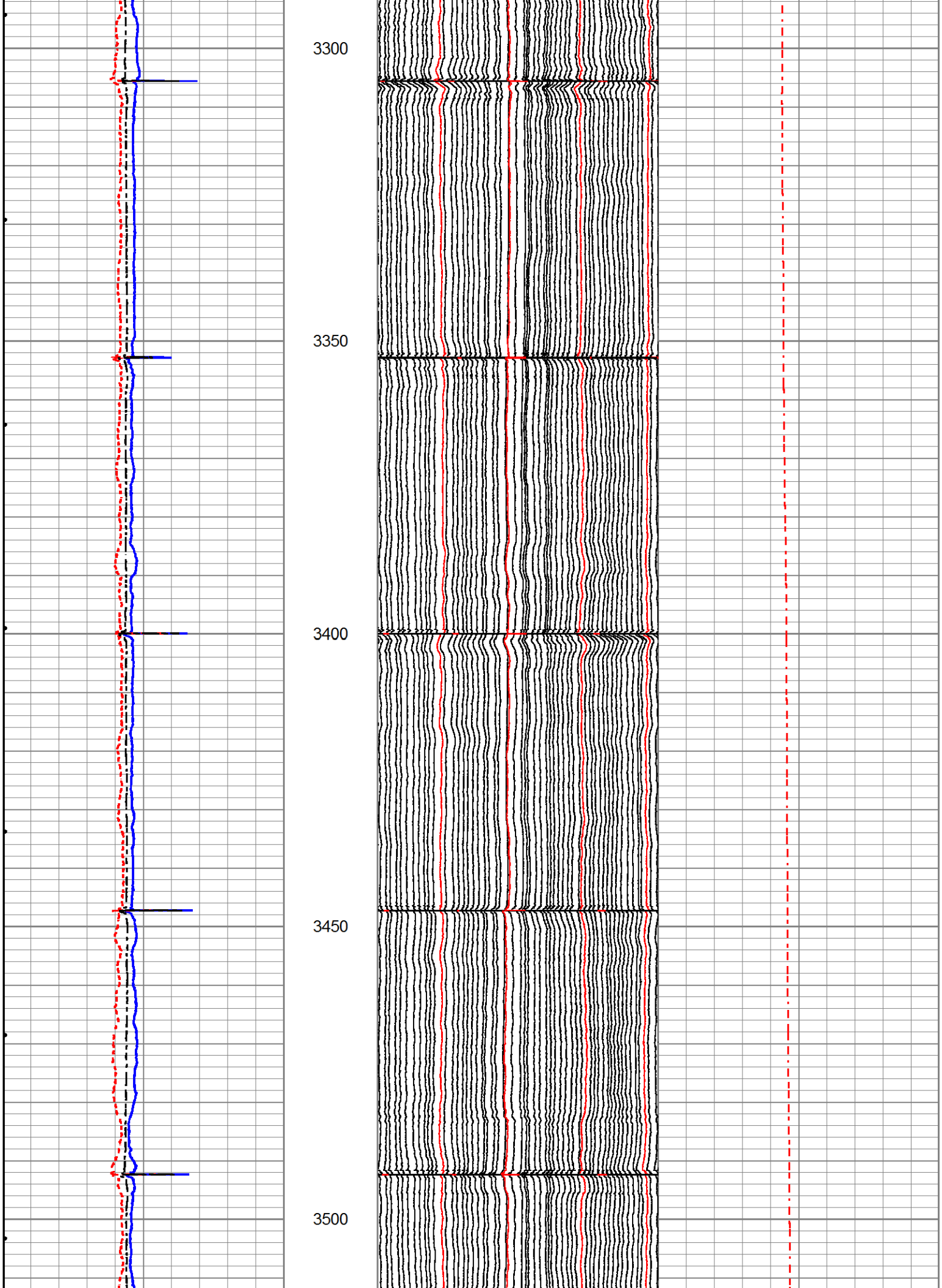
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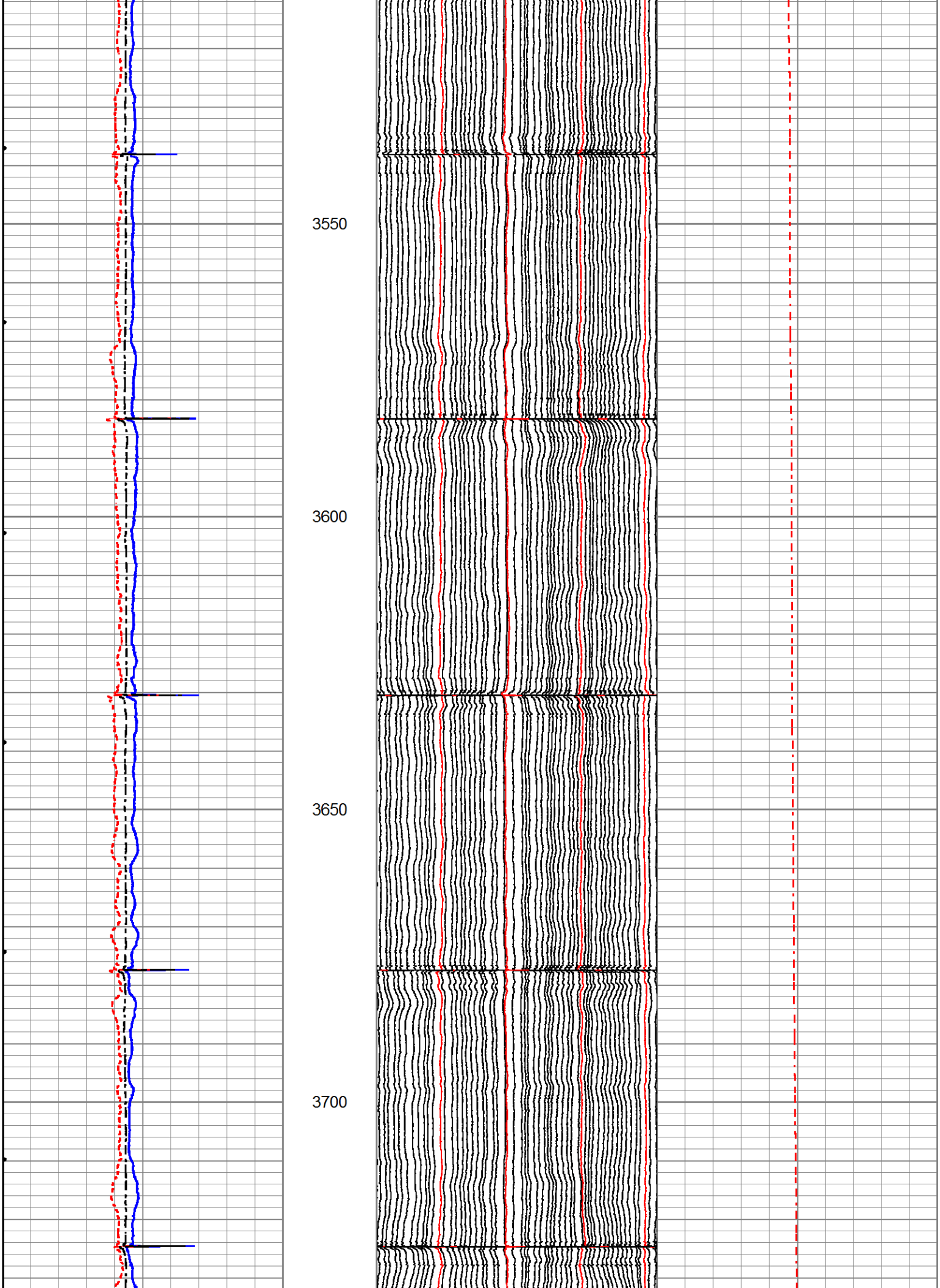
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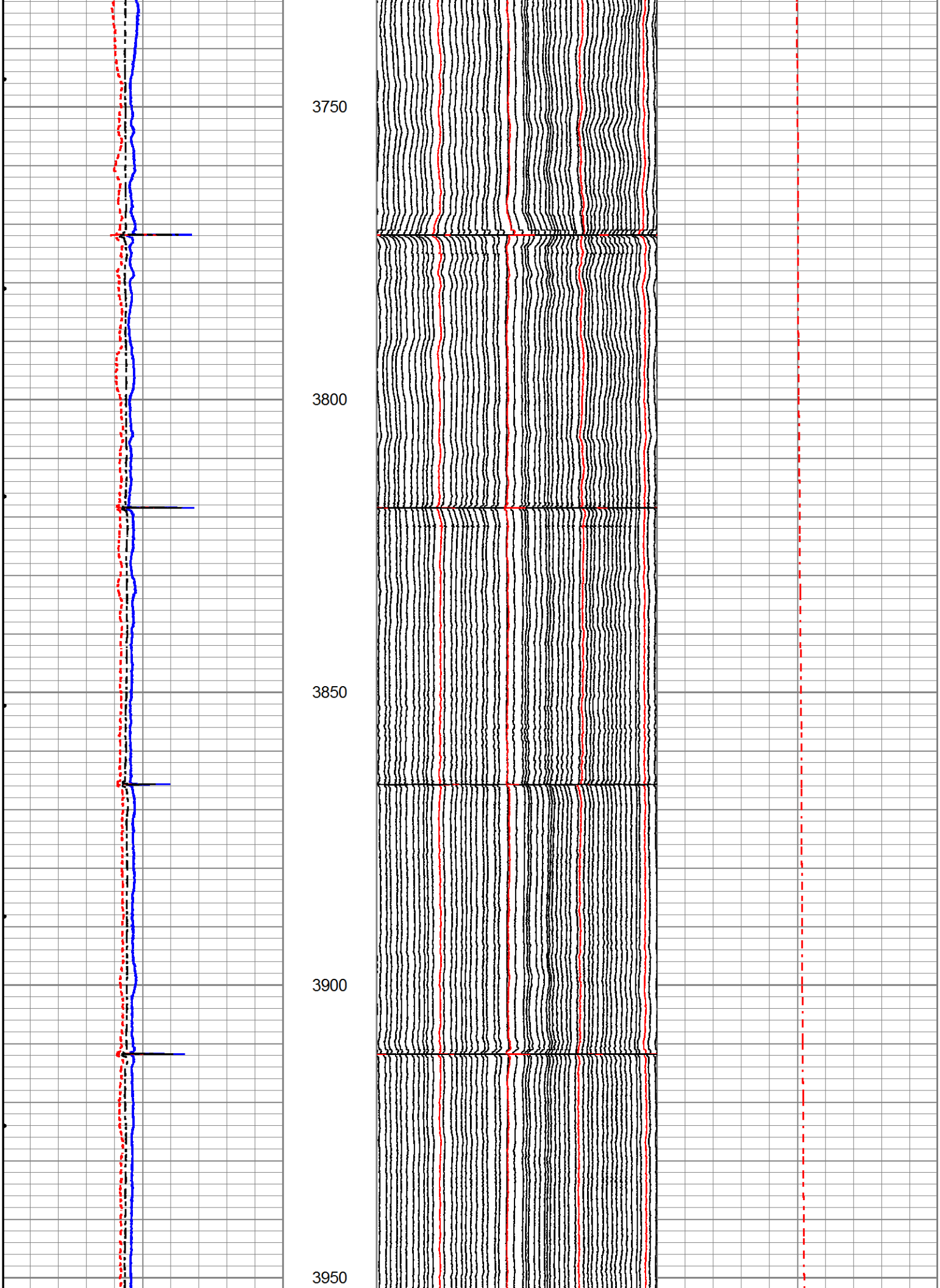
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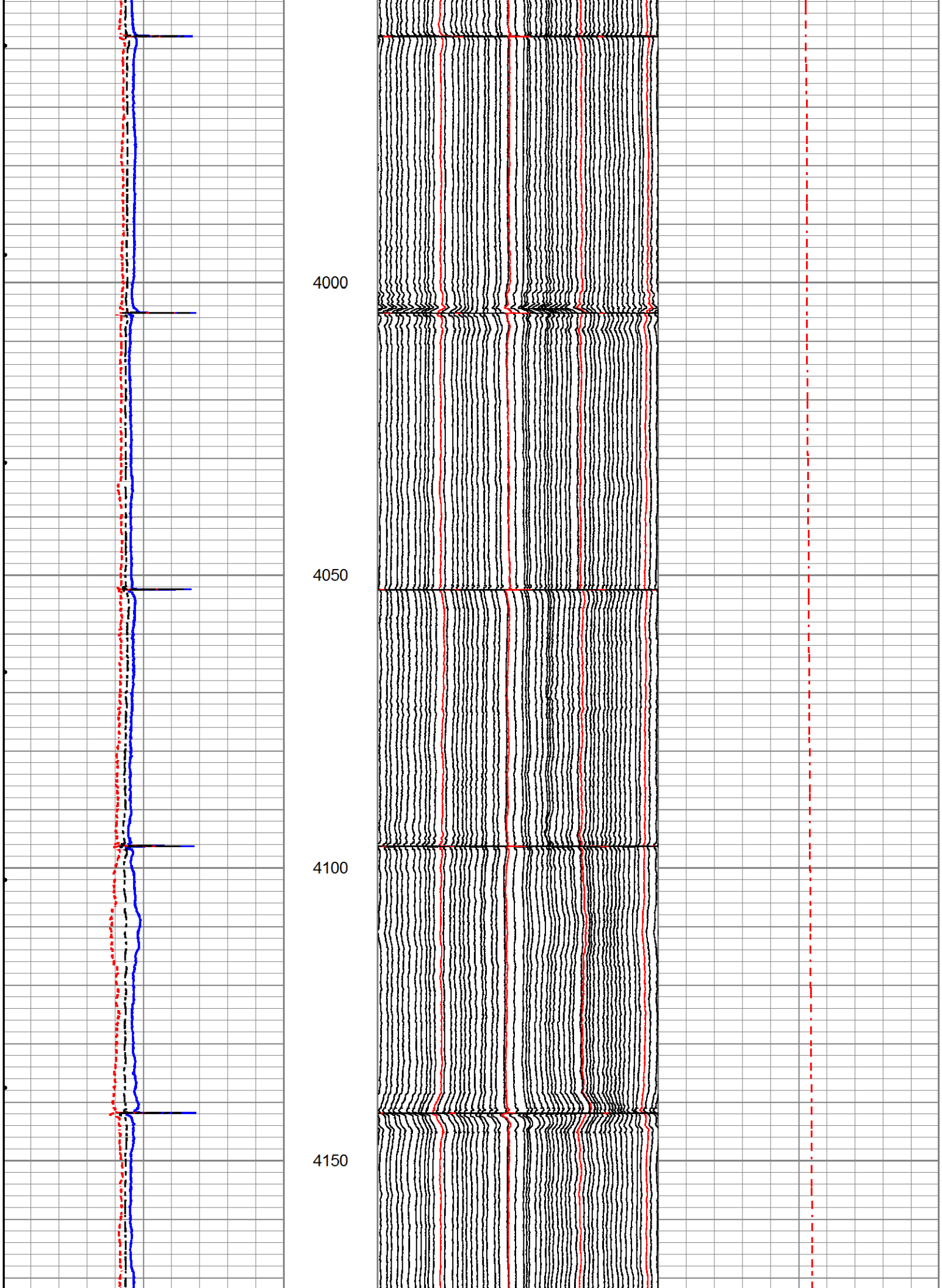
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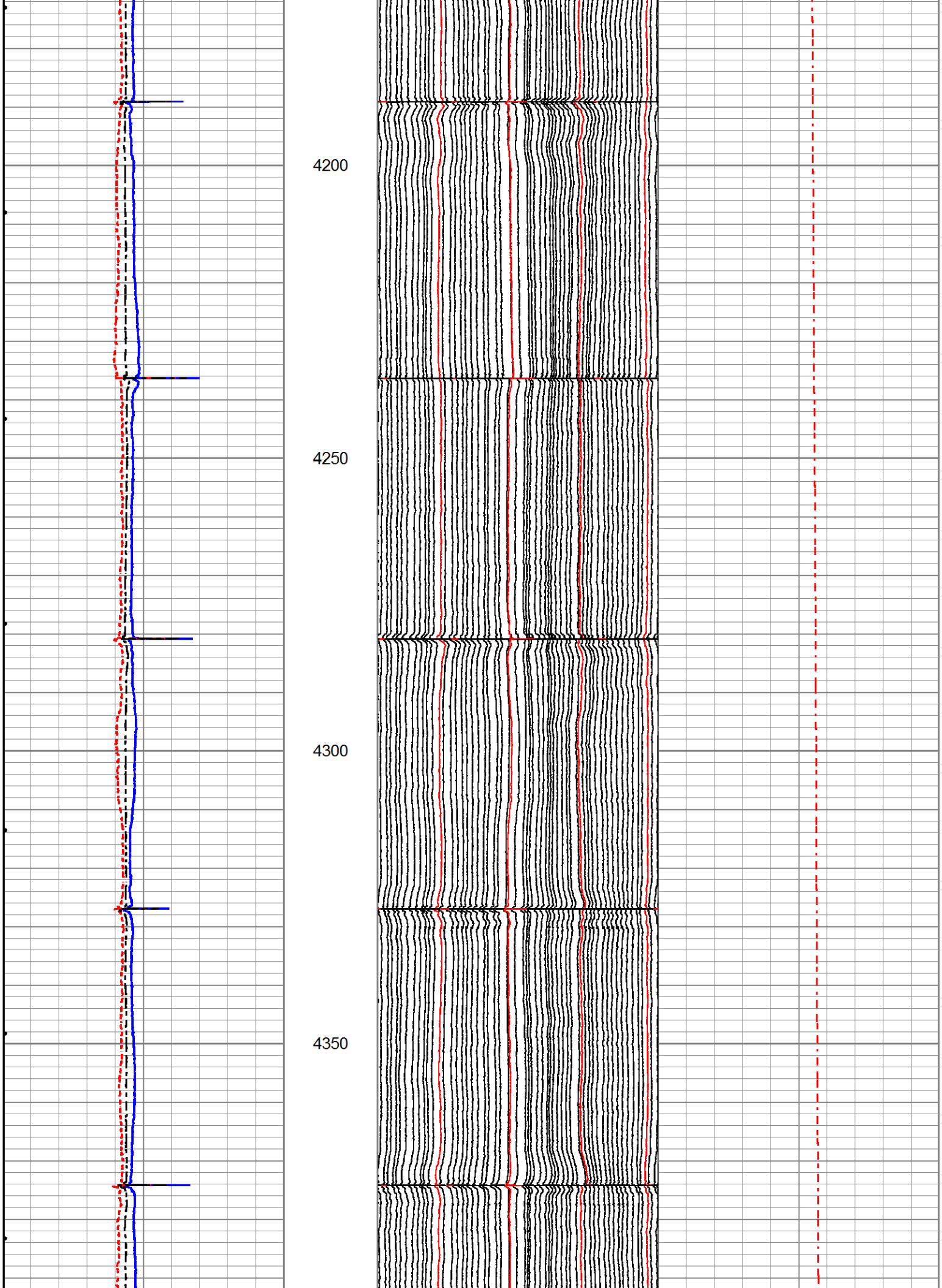
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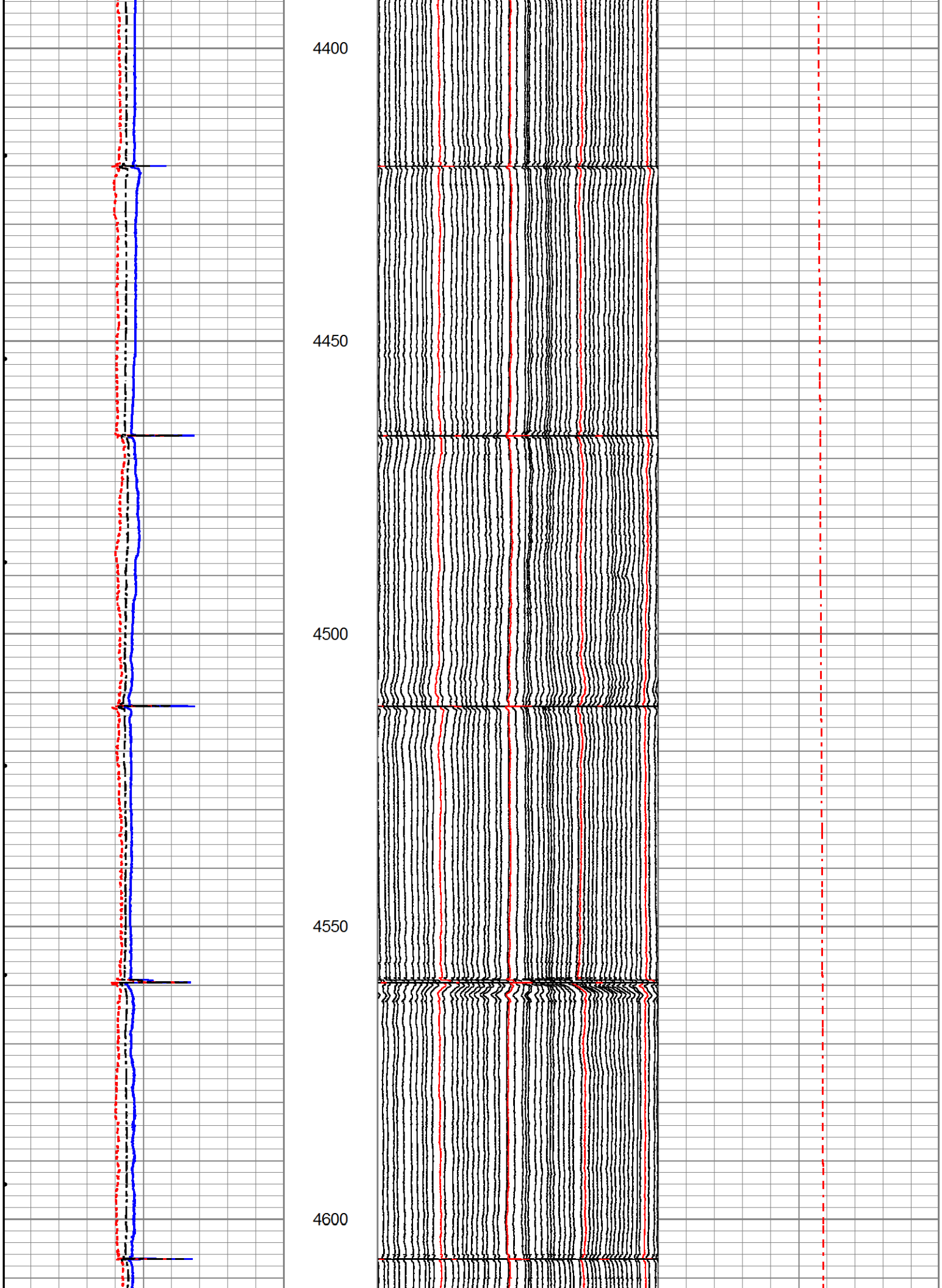
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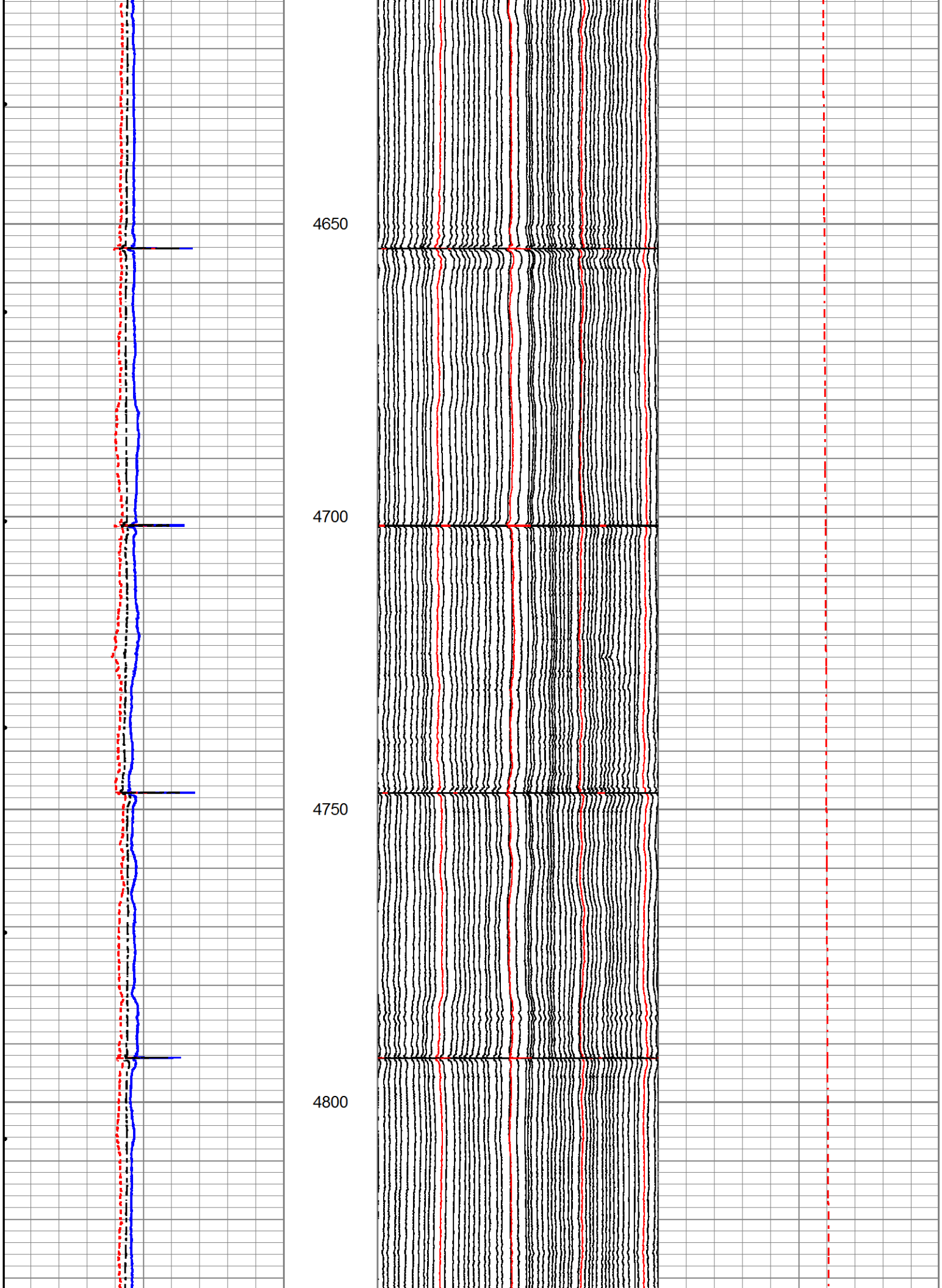
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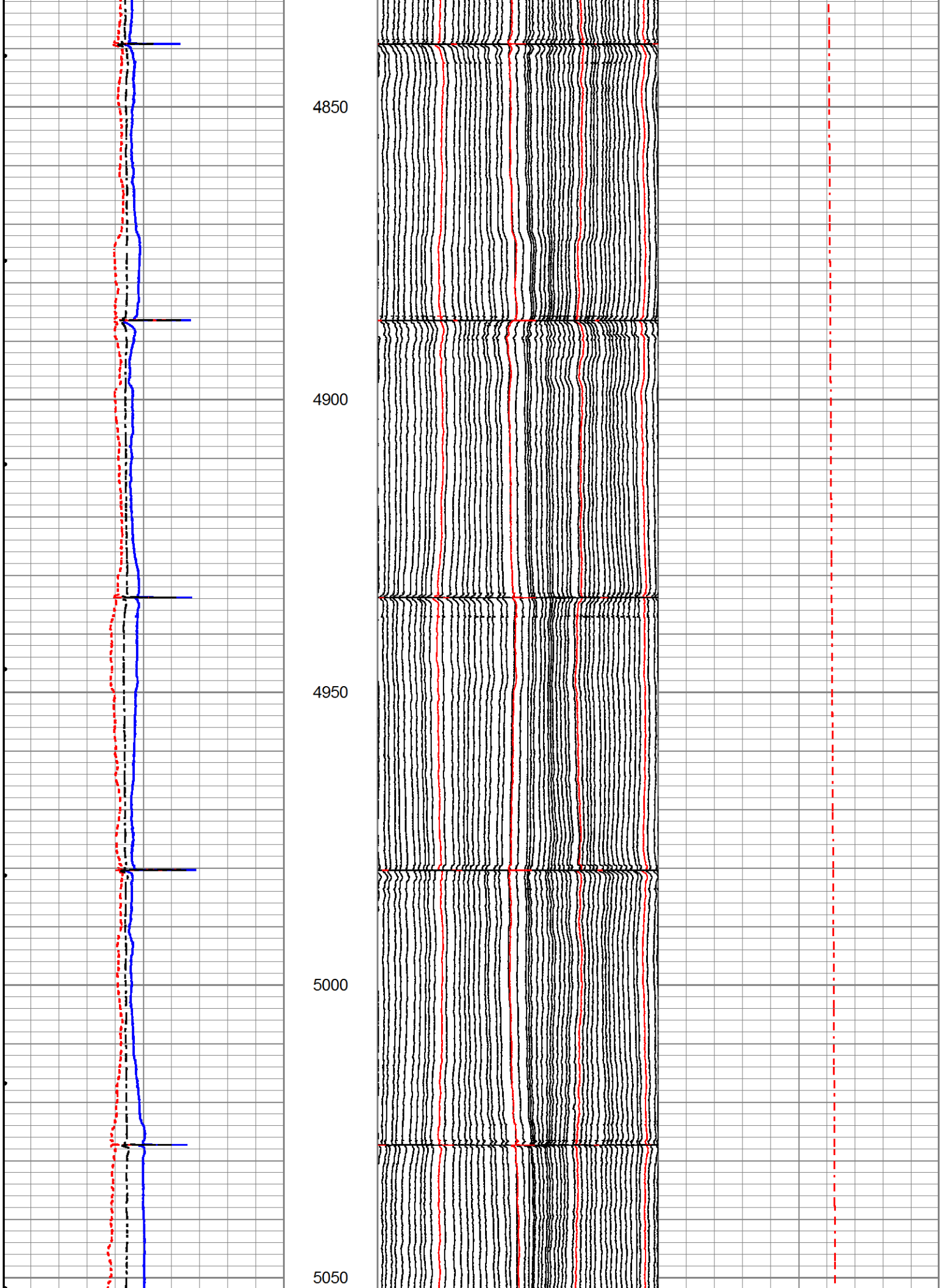
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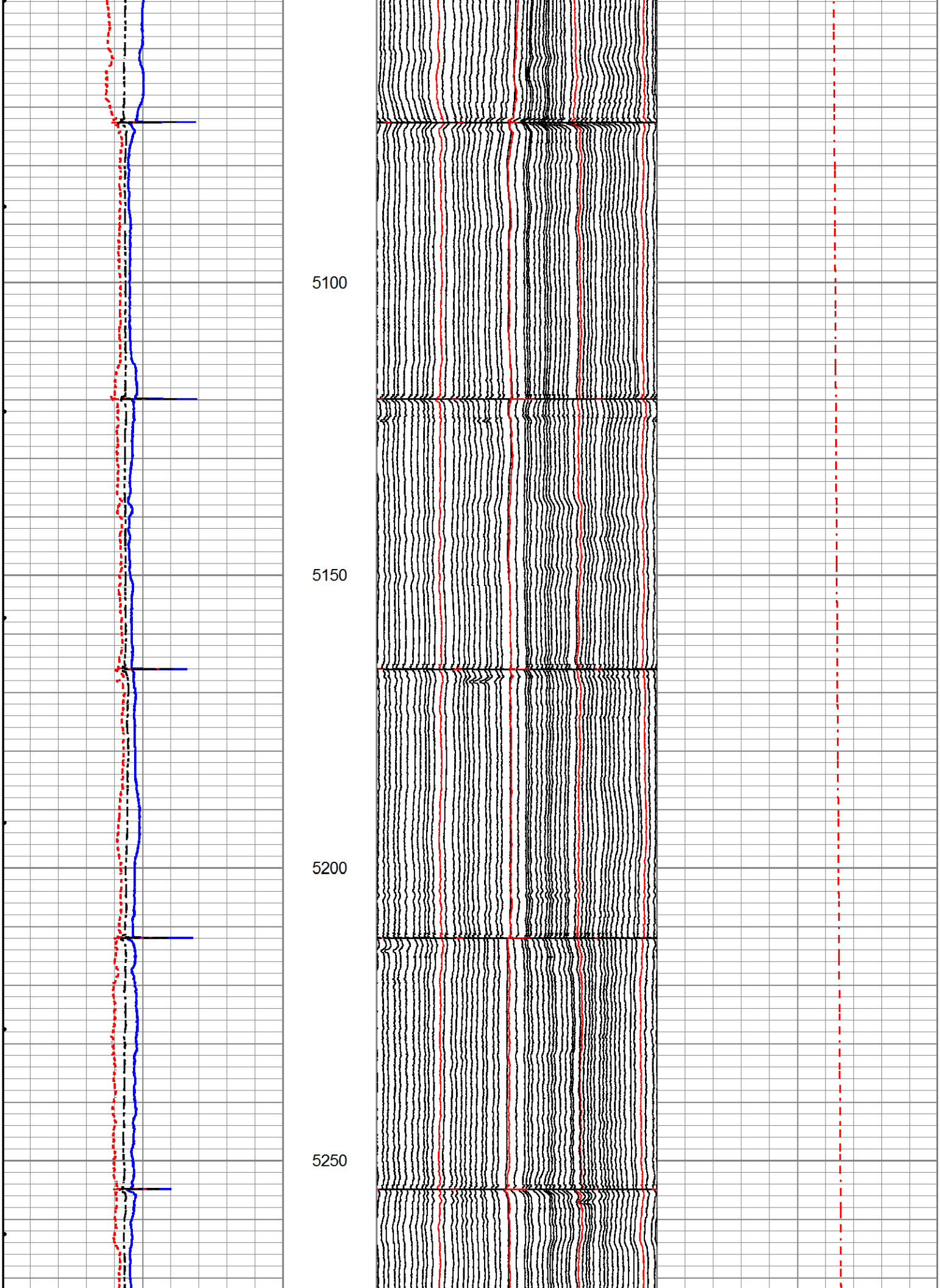
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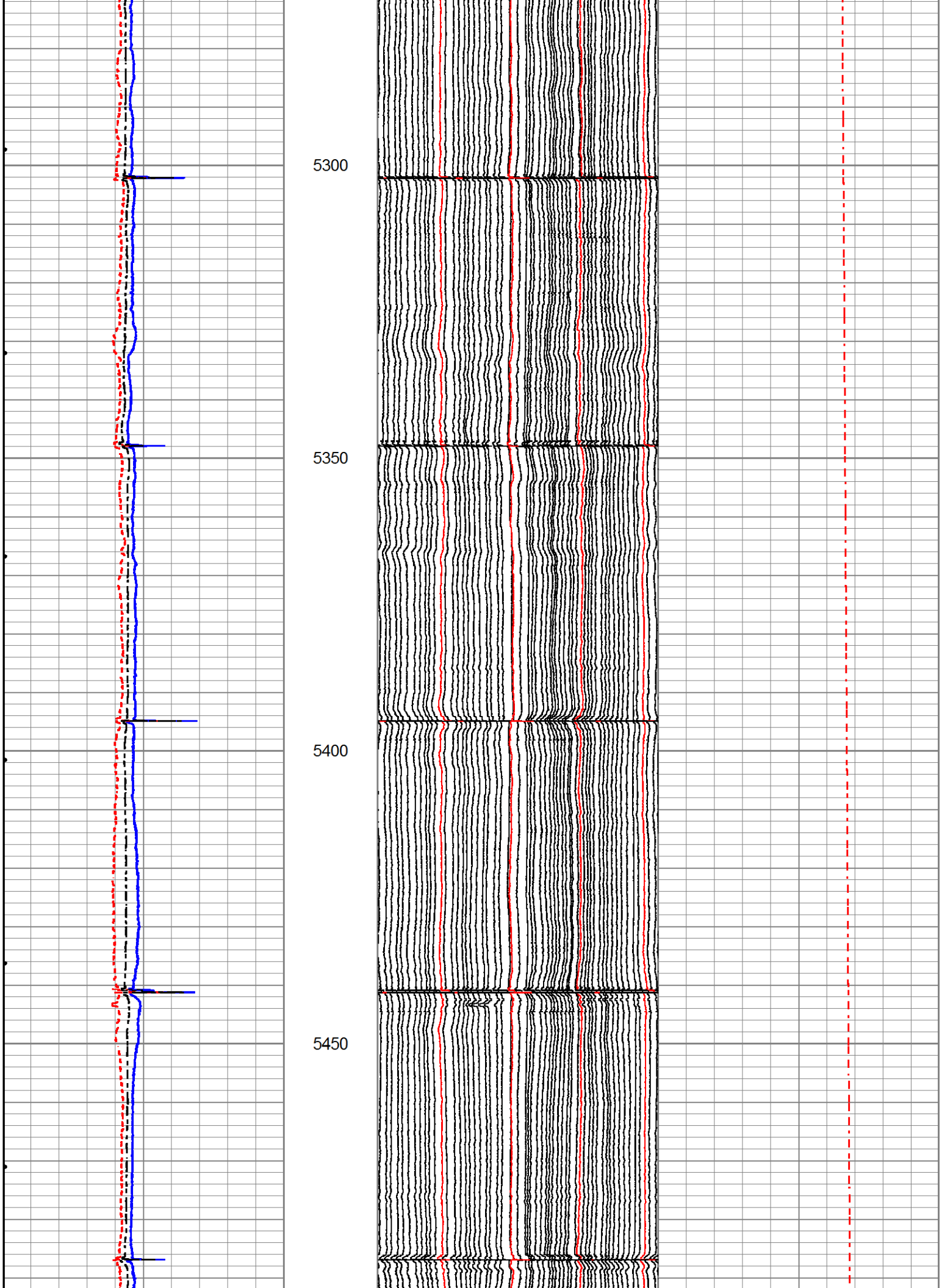
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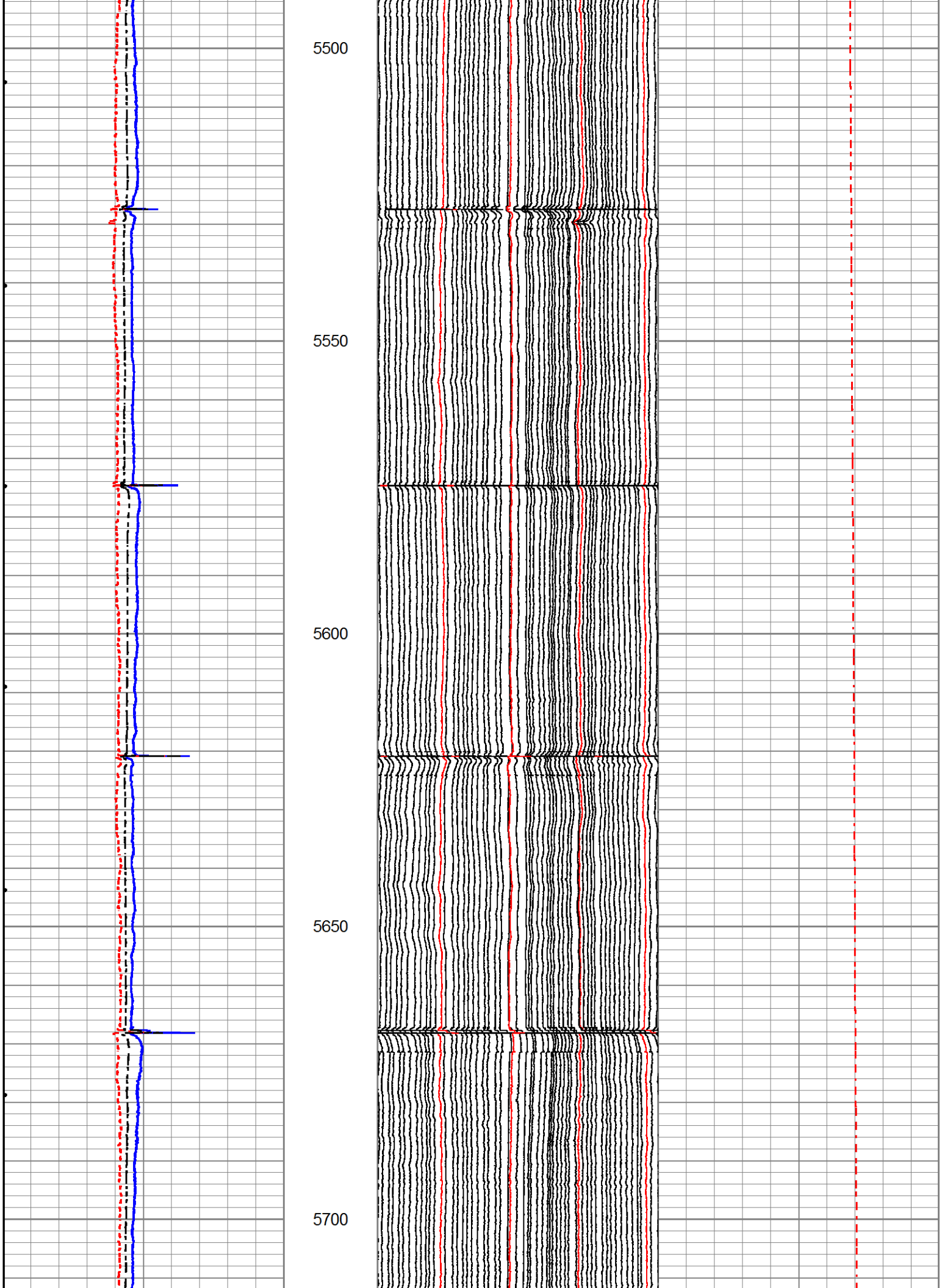
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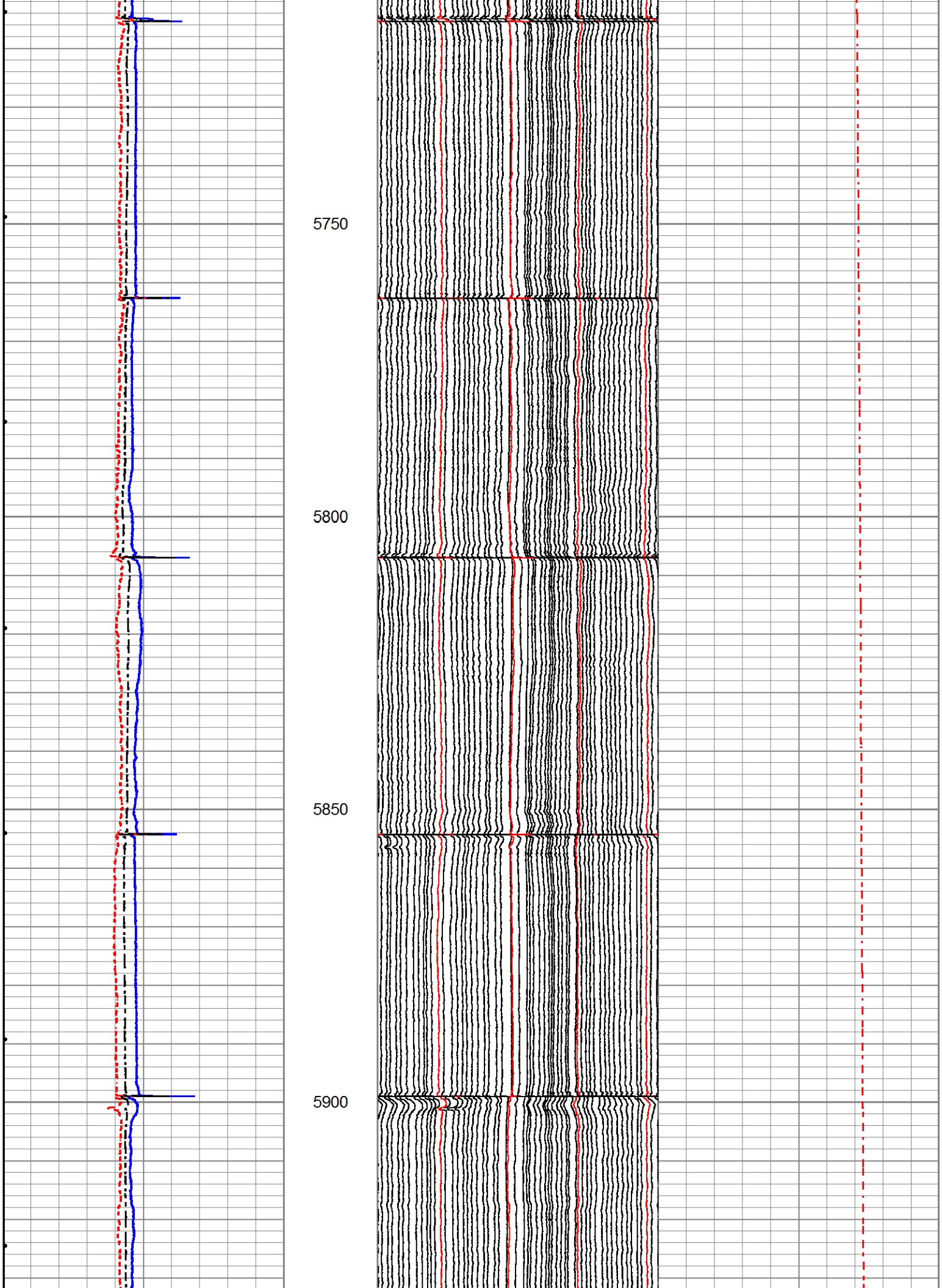
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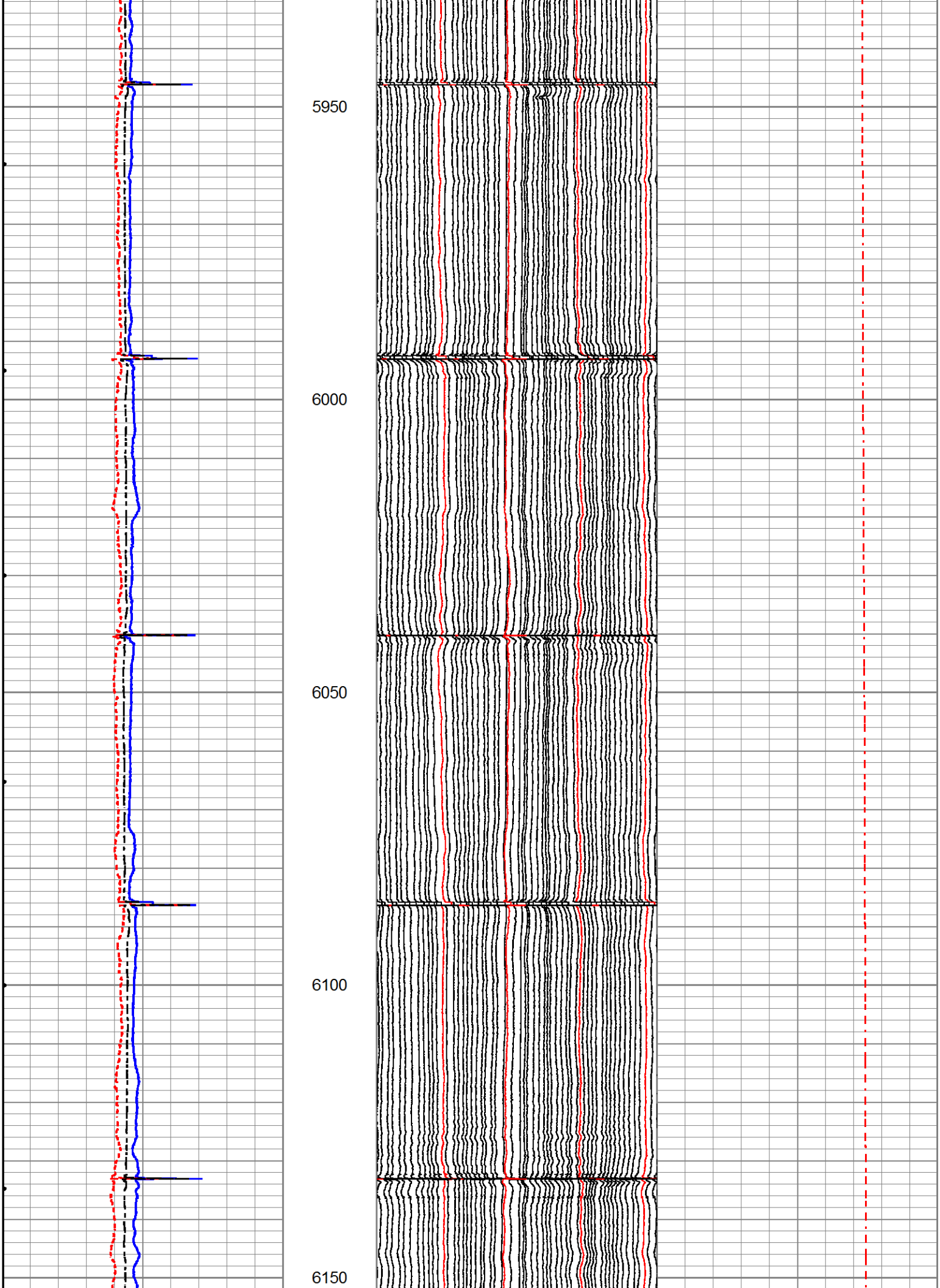
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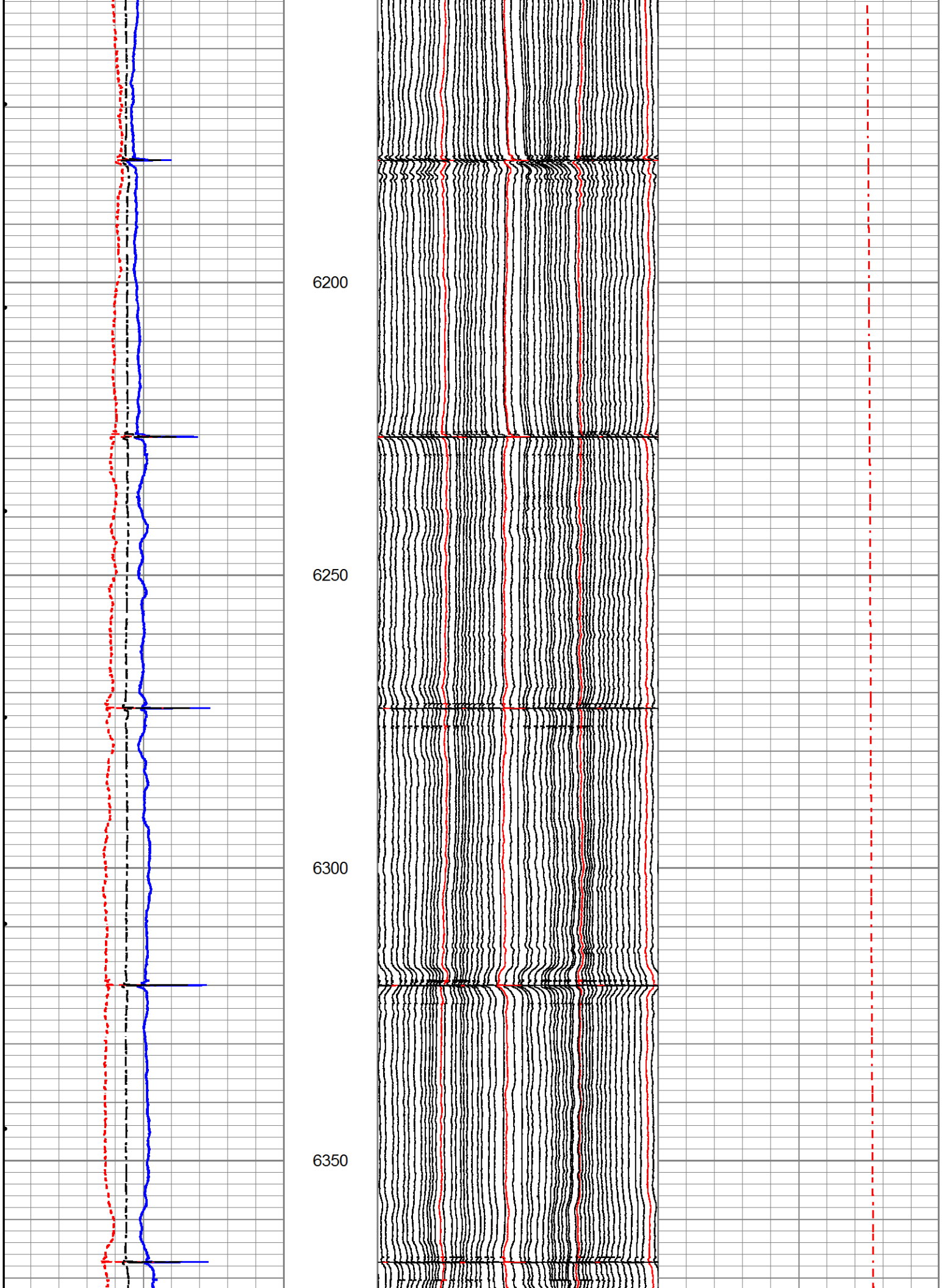
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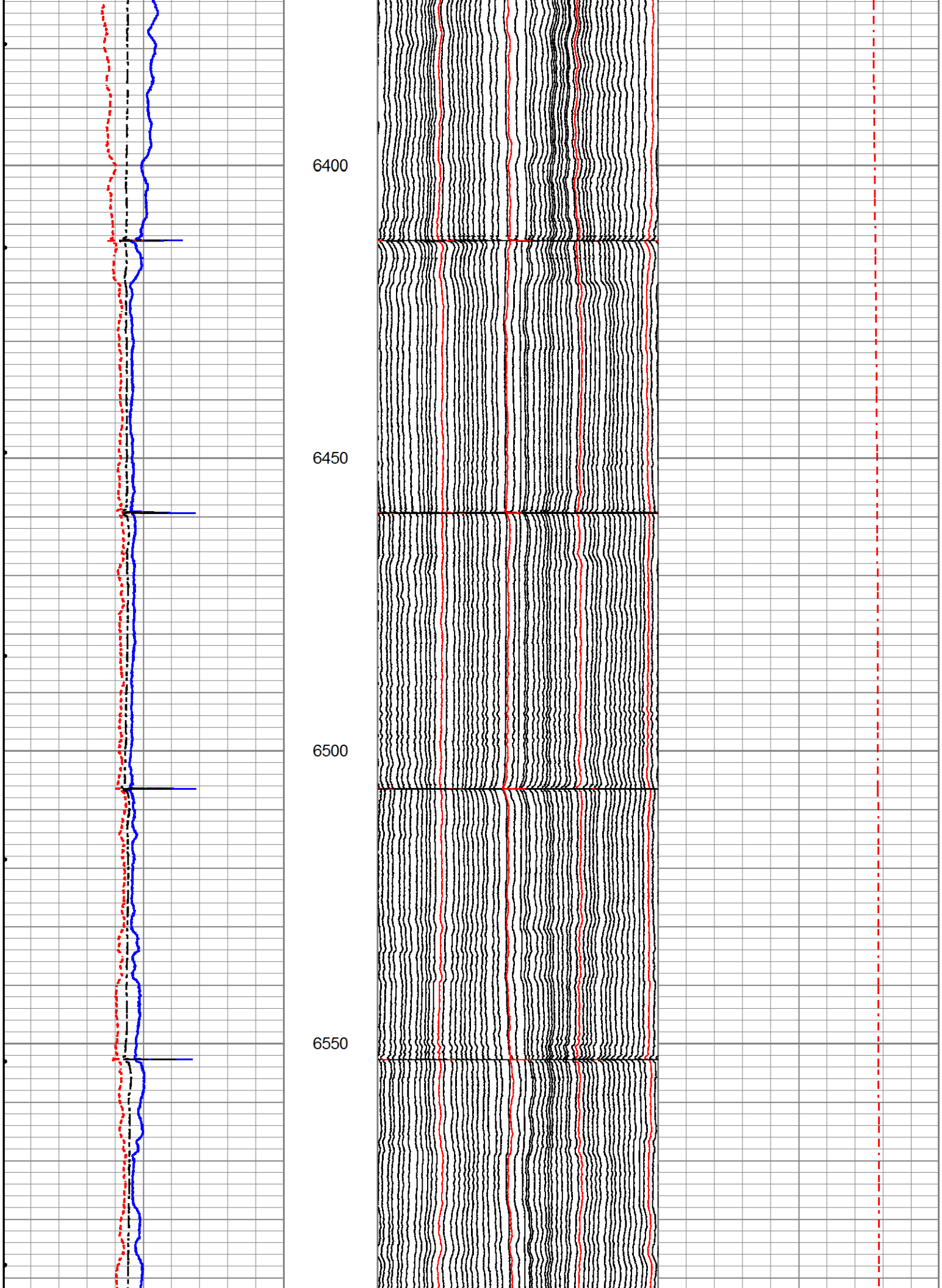
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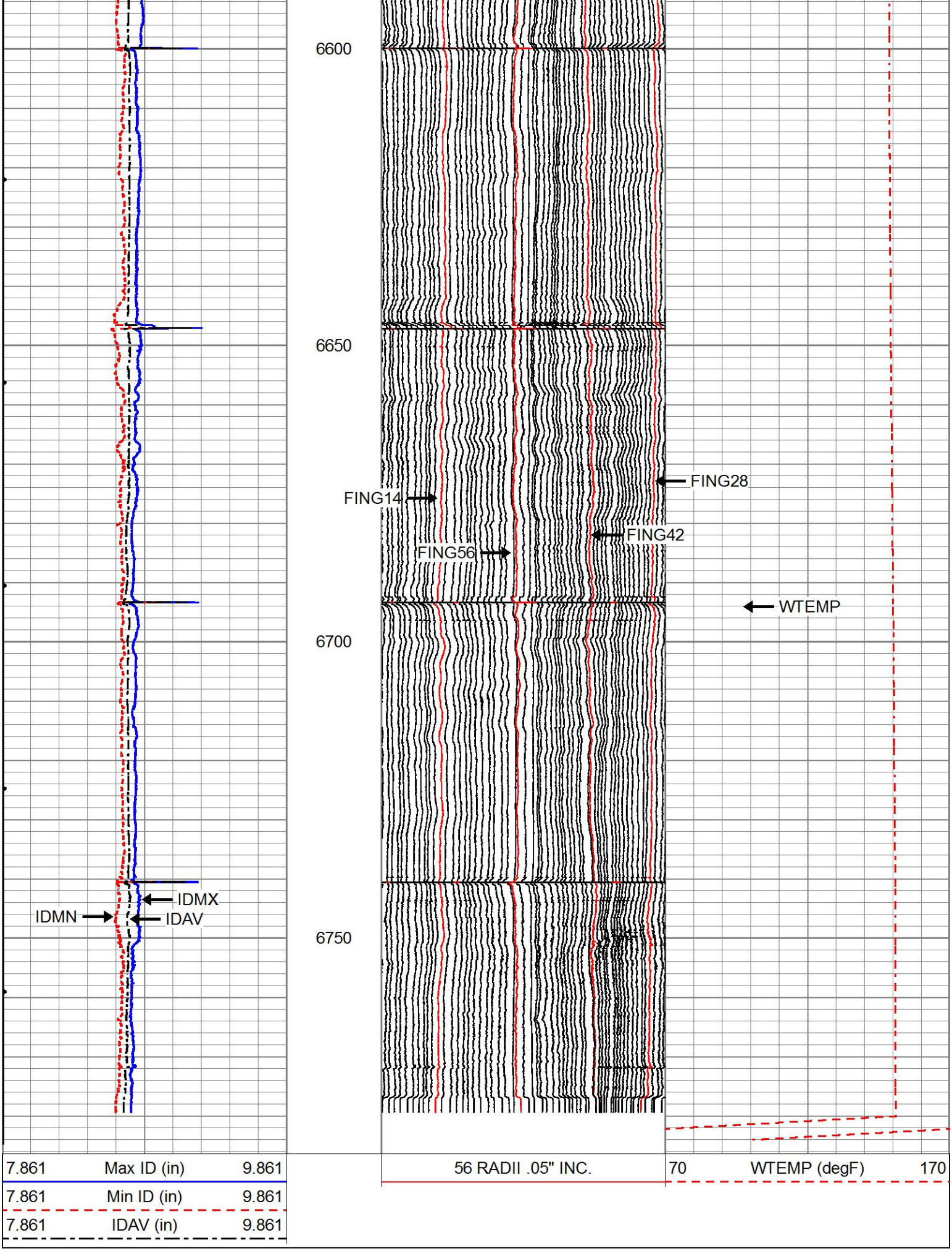
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FING56
WTEMP
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IDMN
IDAV
7.861 Max ID (in) 9.861
7.861 Min ID (in) 9.861
7.861 IDAV (in) 9.861
56 RADII .05" INC.
70 WTEMP (degF) 170

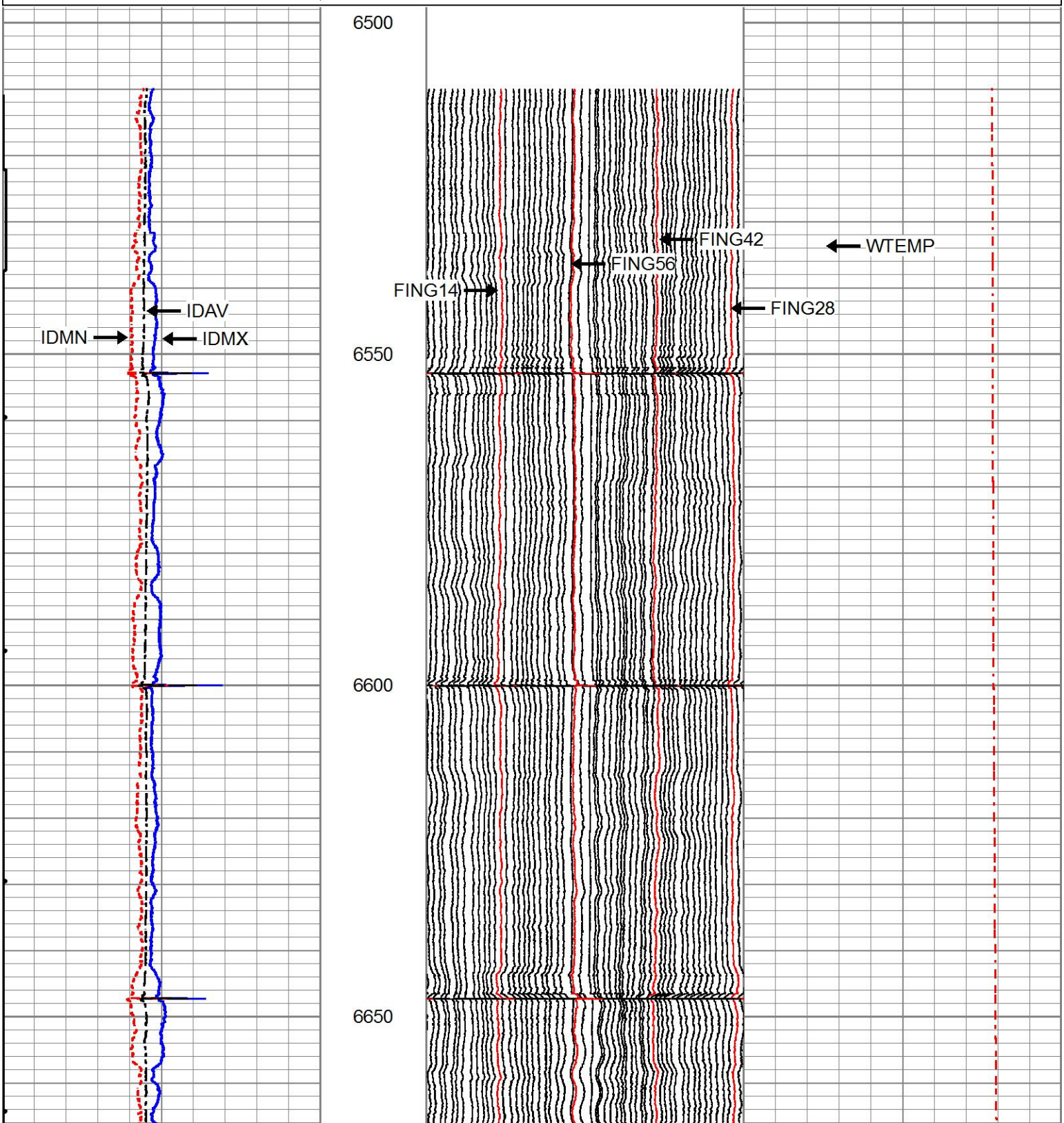
REPEAT PASS

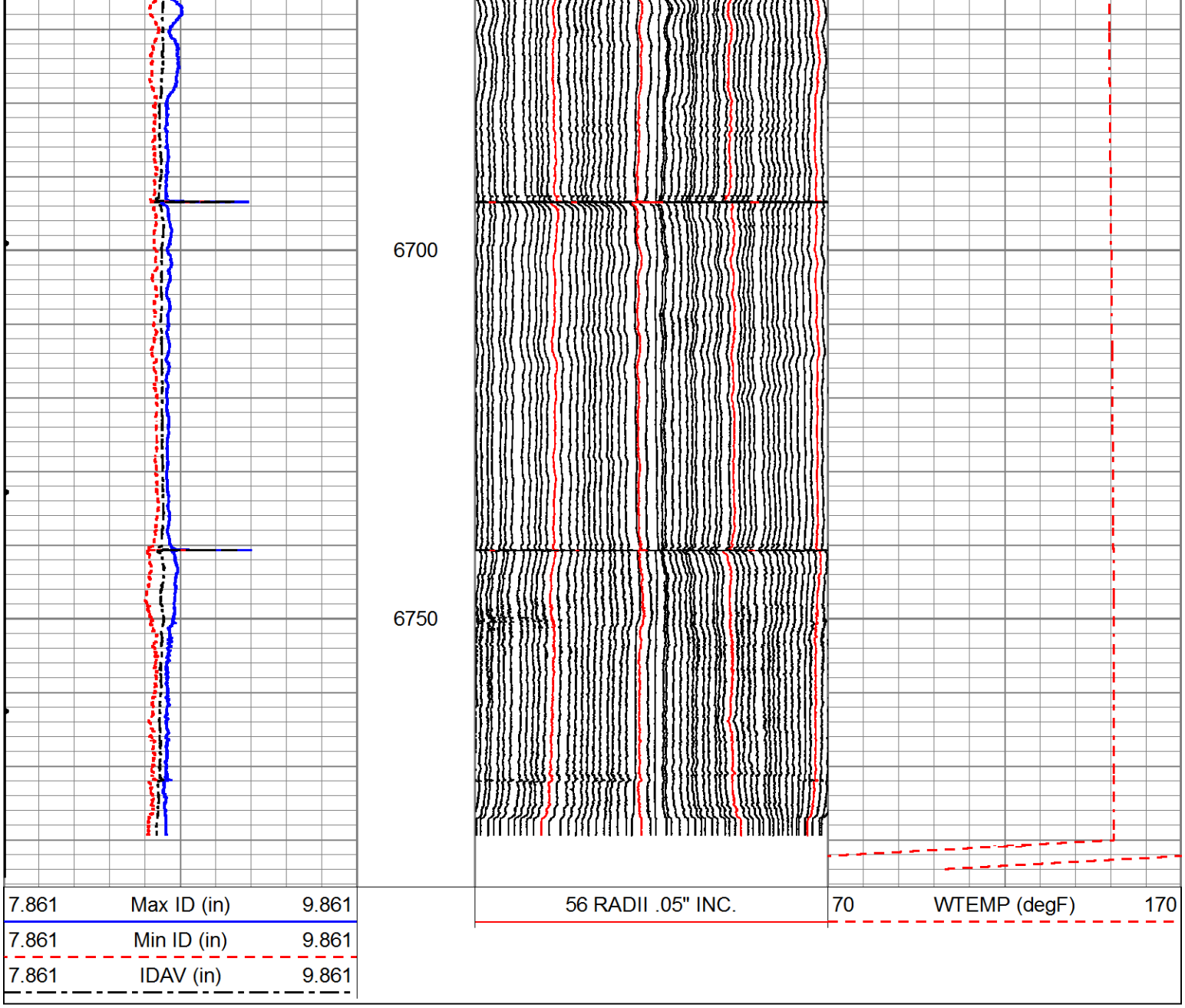
Database File	ff 38c.db
Dataset Pathname	pass2
Presentation Format	56_958
Dataset Creation	Wed Mar 23 06:47:50 2016
Charted by	Depth in Feet scaled 1:240

7.861	Max ID (in)	9.861
7.861	Min ID (in)	9.861
7.861	IDAV (in)	9.861

56 RADII .05" INC.

70 WTEMP (degF) 170





Calibration Report

Database File	ff 38c.db
Dataset Pathname	pass5
Dataset Creation	Wed Mar 23 11:25:39 2016

GOWell 56 Arm Calibration Report

Serial Number:	10065
Tool Model:	56
Performed:	Wed Mar 23 07:37:17 2016

Ref ID:	7.00	8.00	9.00	9.25	9.63	Offset	in
Arm1	6.11	7.14	8.12	8.37	8.73	0.00	in
Arm2	6.49	7.45	8.33	8.61	8.99	0.00	in
Arm3	6.42	7.46	8.46	8.73	9.12	0.00	in
Arm4	6.66	7.67	8.63	8.90	9.18	0.00	in
Arm5	6.41	7.47	8.51	8.79	9.18	0.00	in
Arm6	6.52	7.58	8.62	8.90	9.29	0.00	in
Arm7	6.47	7.45	8.43	8.68	9.03	0.00	in
Arm8	6.66	7.70	8.70	8.95	9.32	0.00	in
Arm9	7.21	8.28	9.40	9.69	10.02	0.00	in
Arm10	5.84	6.87	7.97	8.25	8.65	0.00	in
Arm11	6.17	7.19	8.24	8.52	8.92	0.00	in

Arm12	6.52	7.48	8.48	8.74	9.11	0.00	in	
Arm13	6.80	7.86	8.97	9.27	9.68	0.00	in	
Arm14	7.18	8.24	9.33	9.62	9.93	0.00	in	
Arm15	6.59	7.65	8.72	9.00	9.40	0.00	in	
Arm16	7.12	8.16	9.20	9.45	9.82	0.00	in	
Arm17	6.37	7.28	8.43	8.70	9.09	0.00	in	
Arm18	6.49	5.72	4.76	2.85	1.35	0.00	in	*
Arm19	6.38	7.44	8.54	8.81	9.24	0.00	in	
Arm20	6.75	7.64	8.55	8.77	9.12	0.00	in	
Arm21	6.82	7.80	8.84	9.10	9.50	0.00	in	
Arm22	6.75	7.65	8.58	8.81	9.17	0.00	in	
Arm23	6.72	7.73	8.76	9.01	9.40	0.00	in	
Arm24	6.46	7.48	8.51	8.76	9.16	0.00	in	
Arm25	6.97	7.93	8.91	9.13	9.48	0.00	in	
Arm26	6.63	7.57	8.57	8.81	9.20	0.00	in	
Arm27	6.49	7.39	8.30	8.51	8.87	0.00	in	
Arm28	6.92	7.94	9.01	9.26	9.67	0.00	in	
Arm29	6.51	7.51	8.55	8.80	9.21	0.00	in	
Arm30	7.09	8.07	9.15	9.38	9.74	0.00	in	

* Bad

GOWell 56 Arm Calibration Report

Serial Number:
Tool Model:
Performed:

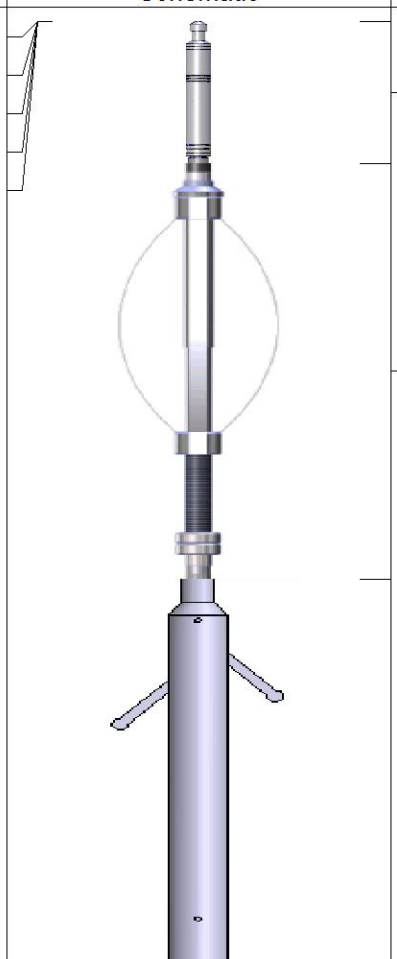
Ref ID:	7.00	8.00	9.00	9.25	9.63	Offset	in
Arm31	6.69	7.63	8.63	8.87	9.25	0.00	in
Arm32	7.21	8.15	9.16	9.38	9.74	0.00	in
Arm33	6.86	7.86	8.88	9.11	9.49	0.00	in
Arm34	6.64	7.61	8.51	8.73	9.10	0.00	in
Arm35	6.98	7.92	8.92	9.15	9.50	0.00	in
Arm36	7.37	8.33	9.32	9.54	9.87	0.00	in
Arm37	6.75	7.77	8.78	9.02	9.40	0.00	in
Arm38	6.35	7.40	8.37	8.62	9.03	0.00	in
Arm39	6.57	7.62	8.59	8.83	9.21	0.00	in
Arm40	6.98	7.95	8.95	9.18	9.53	0.00	in
Arm41	6.50	7.56	8.55	8.80	9.17	0.00	in
Arm42	7.12	8.15	9.22	9.44	9.78	0.00	in
Arm43	6.75	7.76	8.73	9.03	9.41	0.00	in
Arm44	6.56	7.63	8.67	8.94	9.33	0.00	in
Arm45	6.60	7.64	8.62	8.88	9.26	0.00	in
Arm46	6.84	7.85	8.89	9.15	9.51	0.00	in
Arm47	6.70	7.81	8.87	9.15	9.54	0.00	in
Arm48	6.40	7.55	8.57	8.83	9.21	0.00	in
Arm49	6.87	7.87	8.87	9.12	9.48	0.00	in
Arm50	7.17	8.20	9.19	9.44	9.79	0.00	in
Arm51	6.73	7.76	8.76	9.02	9.41	0.00	in
Arm52	6.63	7.65	8.59	8.84	9.20	0.00	in
Arm53	6.64	7.60	8.51	8.75	9.09	0.00	in
Arm54	7.61	8.60	9.56	9.79	10.13	0.00	in
Arm55	6.87	7.92	8.84	9.12	9.48	0.00	in
Arm56	6.91	7.86	8.82	9.06	9.40	0.00	in
Arm57							in
Arm58							in
Arm59							in
Arm60							in

* Bad

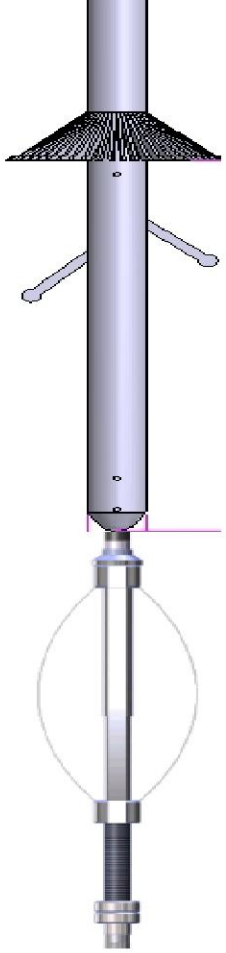
GOWell 56 Arm Verification Report

	Pre Verification	Post Verification	Casing Check
Performed:	Wed Mar 23 07:40:20 2016	Wed Mar 23 13:25:35 2016	
Ref ID:	9.00	9.00	9.00	in

Ref ID.	9.00	9.00	0.00	in
Min.	8.96	8.98	0.00	in
Max.	9.01	9.02	0.00	in
Avg.	8.99	9.00	0.00	in
Dia1	9.00	8.99	0.00	in
Dia2	8.96	9.02	0.00	in
Dia3	9.00	8.99	0.00	in
Dia4	9.00	9.01	0.00	in
Dia5	9.00	8.99	0.00	in
Dia6	9.00	9.00	0.00	in
Dia7	9.00	8.99	0.00	in
Dia8	9.01	9.00	0.00	in
Dia9	9.00	9.00	0.00	in
Dia10	8.99	9.01	0.00	in
Dia11	9.00	9.00	0.00	in
Dia12	9.00	9.01	0.00	in
Dia13	9.00	9.00	0.00	in
Dia14	9.00	9.02	0.00	in
Dia15	8.99	9.02	0.00	in
Dia16	8.99	9.00	0.00	in
Dia17	8.99	9.00	0.00	in
Dia18	8.99	9.00	0.00	in
Dia19	8.99	9.00	0.00	in
Dia20	8.99	8.99	0.00	in
Dia21	9.00	9.00	0.00	in
Dia22	9.00	9.01	0.00	in
Dia23	8.99	9.00	0.00	in
Dia24	9.00	9.01	0.00	in
Dia25	8.99	8.99	0.00	in
Dia26	8.99	9.01	0.00	in
Dia27	9.00	9.01	0.00	in
Dia28	8.98	9.00	0.00	in

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
BPRES	13.61					
PPRES	13.61		CHD-STNDRD Standard Cable Head	1.03	1.45	10.00
TOTBBL	13.61					
PRATE	13.61					
LTENUSR	13.61					
			CENT-3' In-Line 2. 3/4" Probe In-Line Standard GOI Centralizer	3.00	2.75	30.00

		XIPEMAC-56 (10065) Hotwell 56 Arm caliper	6.58	3.50	100.00
Meas	5.67				
Aux1	3.00	CENT-3' In-Line 2. 3/4" Probe In-Line Standard GOI Centralizer	3.00	2.75	30.00



Dataset:	ff 38c.db: field/well/run1/pass3
Total length:	13.61 ft
Total weight:	170.00 lb
O.D.:	3.50 in

BAKER HUGHES

Company	SOUTHERN CALIFORNIA GAS COMPANY
Well	FERNANDO FEE 38C
Field	ALISO CANYON
County	LOS ANGELES
State	CALIFORNIA