56 Arm Caliper Log

Company Southern California Gas Company
Well Porter 25R
Field Aliso Canyon
County Los Angeles State CA

Company Southern California Gas Company
Well Porter 25R
Field Aliso Canyon
County Los Angeles
State CA

Location: API # : 04-037-00712

SEC 28 TWP 3N RGE 16W

Other Services
HRVRT

Elevation
K.B.
D.F.
G.L.

Permanent Datum Ground Level Elevation
Log Measured From K.B 23.5 Feet above G.L
Drilling Measured From K.B

Date	28-April-16		
Run Number	1		
Service Order	US107147		
Depth Driller	8122		
Depth Logger	7661		
Bottom Logged Interval	7661		
Top Log Interval	0		
Type Fluid	KCL		
Density / Viscosity	8.5		
Max. Recorded Temp.	163		
Estimated Cement Top			
Time Well Ready	0600		
Time Logger on Bottom	0930		
Equipment Number	4243		
Location	Oklahoma City		
Recorded By	Sidney Gornto		
Witnessed By	JASON FIKE		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13-3/8"	54.5	0	825
Prot. String	9-5/8"	47	0	7802
Production String				
Liner	5-1/2"	17	7691	8122

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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 USIT log dated 4/29/16
Marker Joints Found At 311-323, 3002-3016 and 7477-7492
Anomolies Logged at 4051-4160' and 5238'
Ad Hoc Verification doesn't show in PASS 9 CAL Report,
It does show in PASS 7 CAL Report at the end of log.

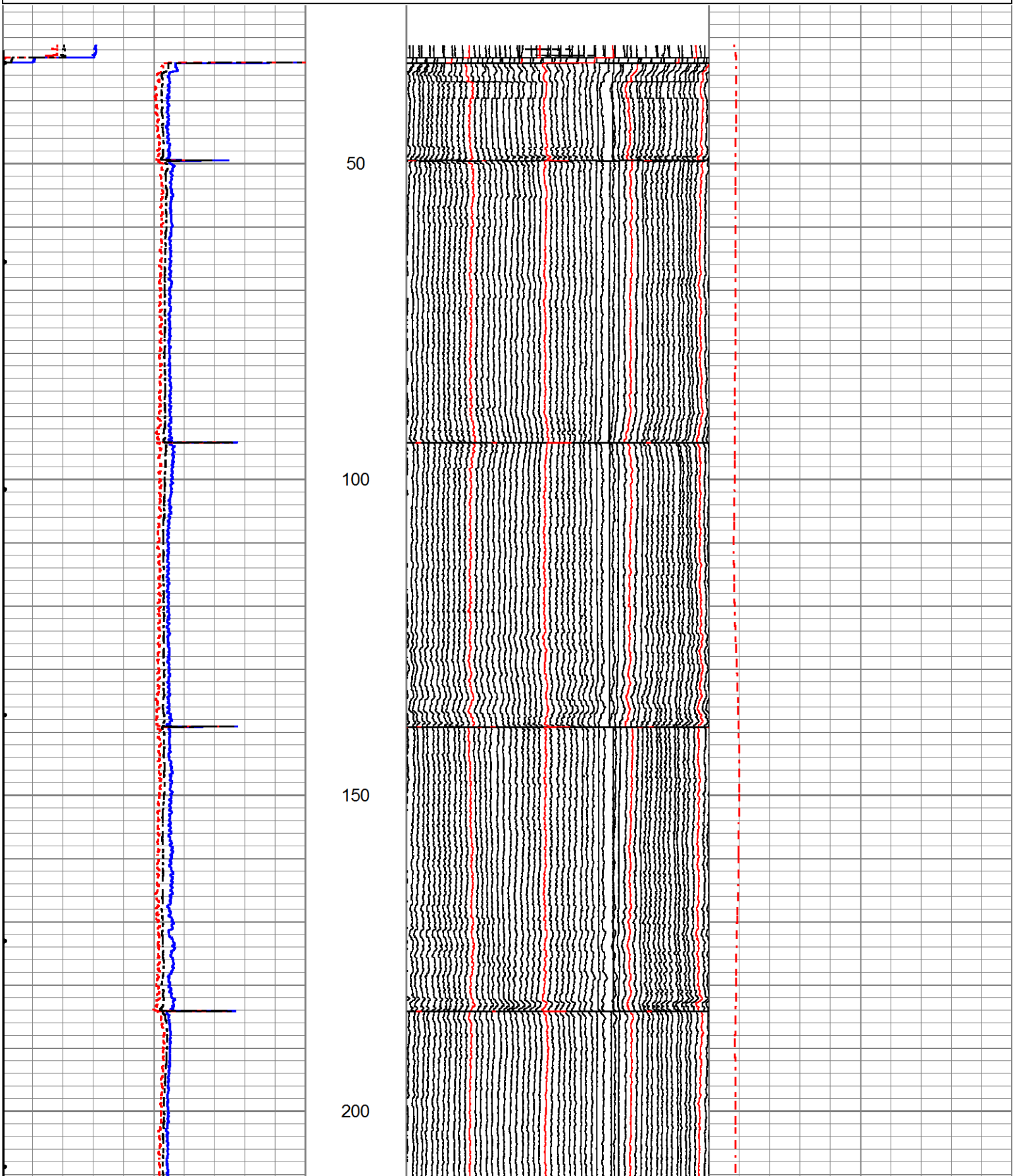
Main Pass

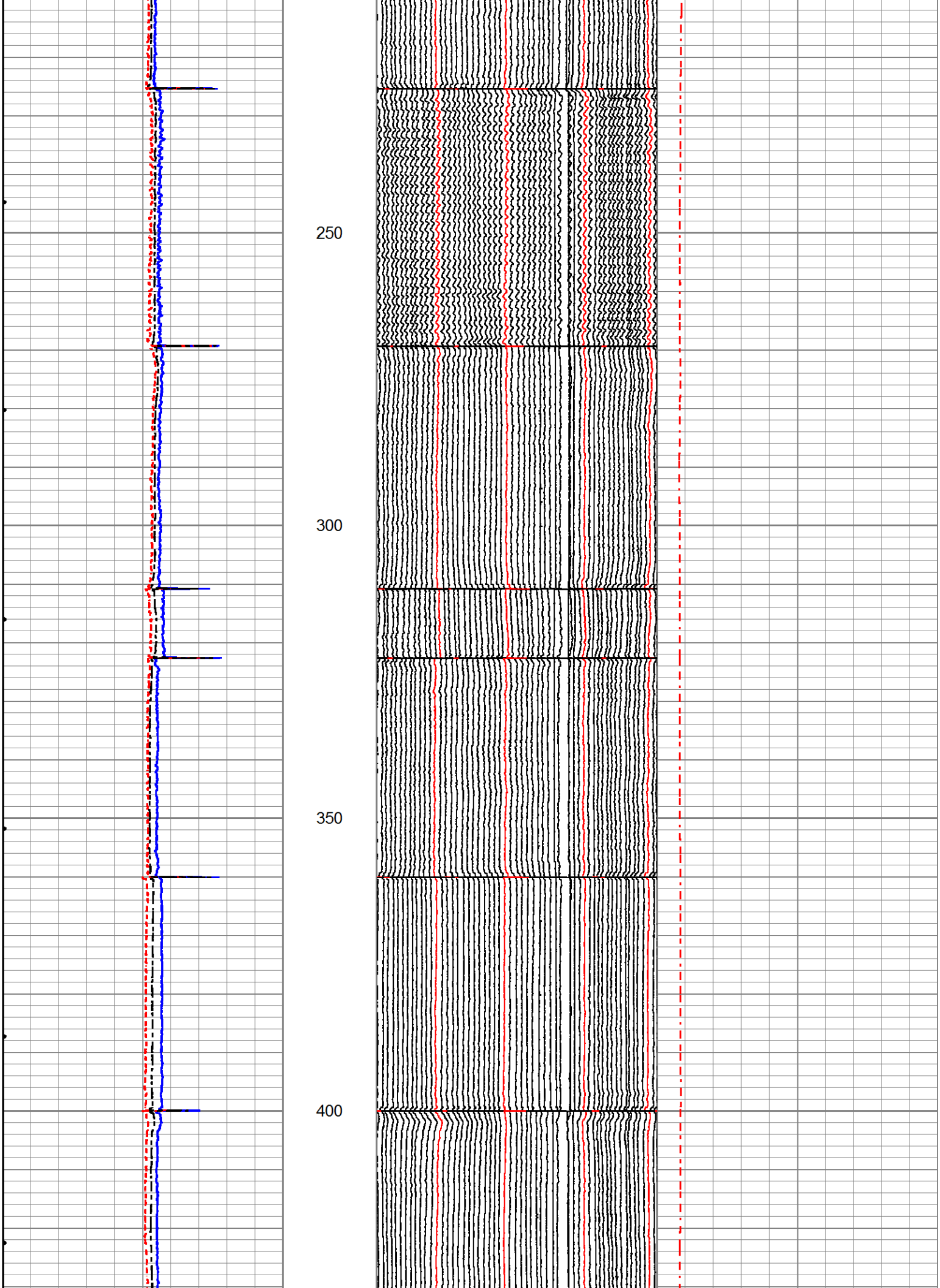
Database File	porter25r.db
Dataset Pathname	AlisoCanyon/Porter25R/run1/pass4
Presentation Format	56_958
Dataset Creation	Thu Apr 28 09:43:25 2016
Charted by	Depth in Feet scaled 1:240

7.681	Max ID (in)	9.681
7.681	Min ID (in)	9.681
7.681	IDAV (in)	9.681

56 RADII .05" INC.

70 WTEMP (degF) 170

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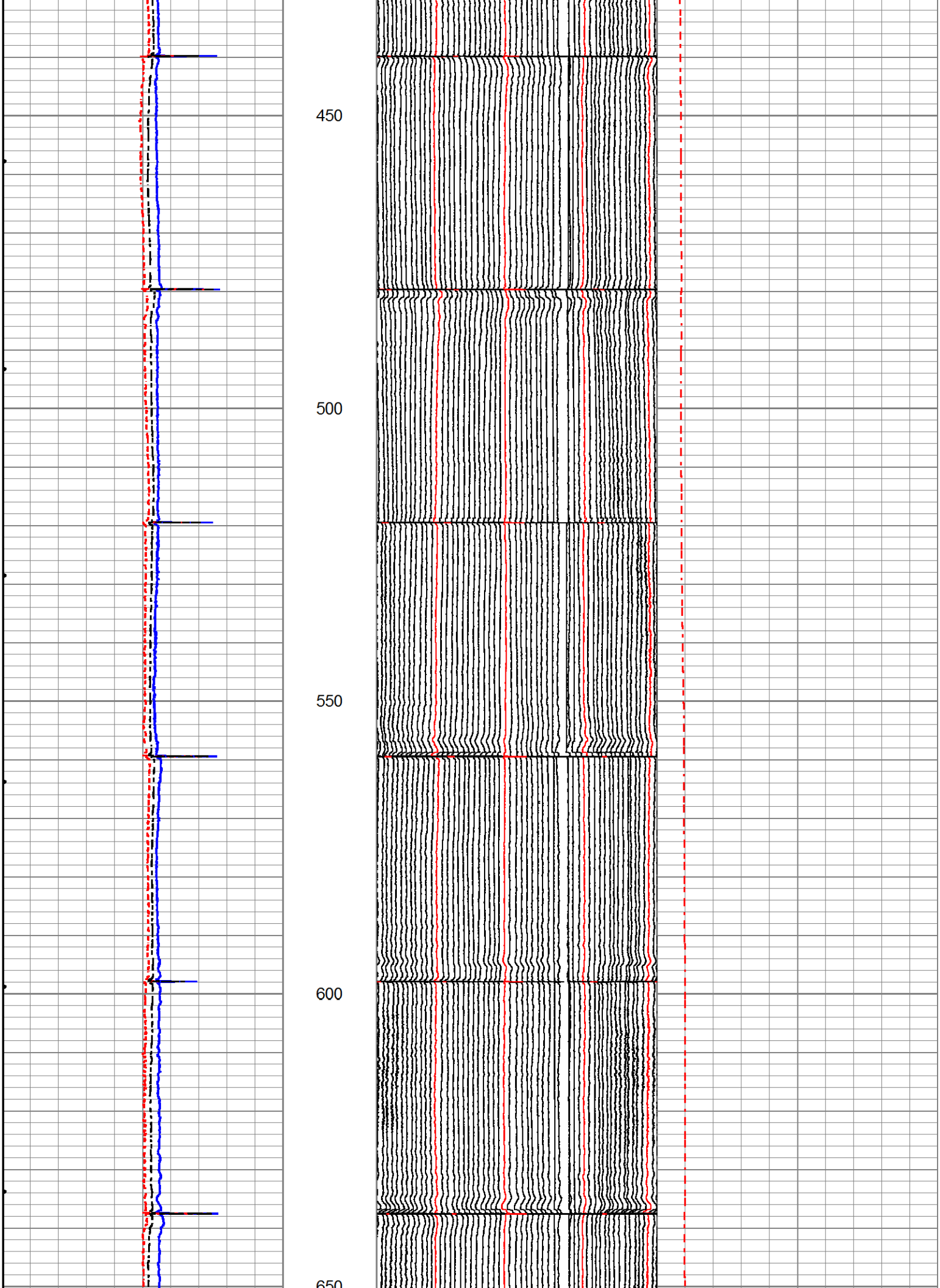
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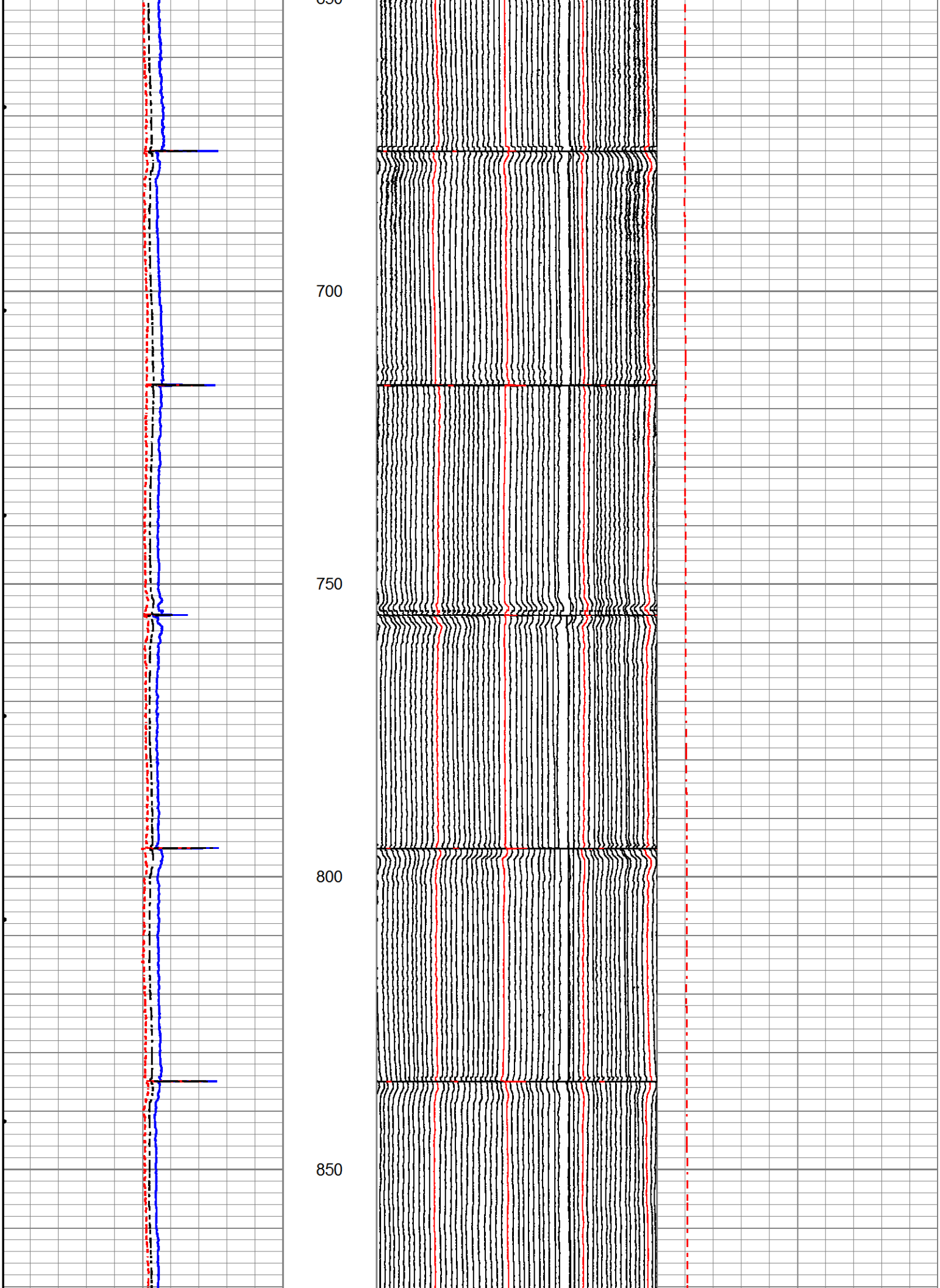
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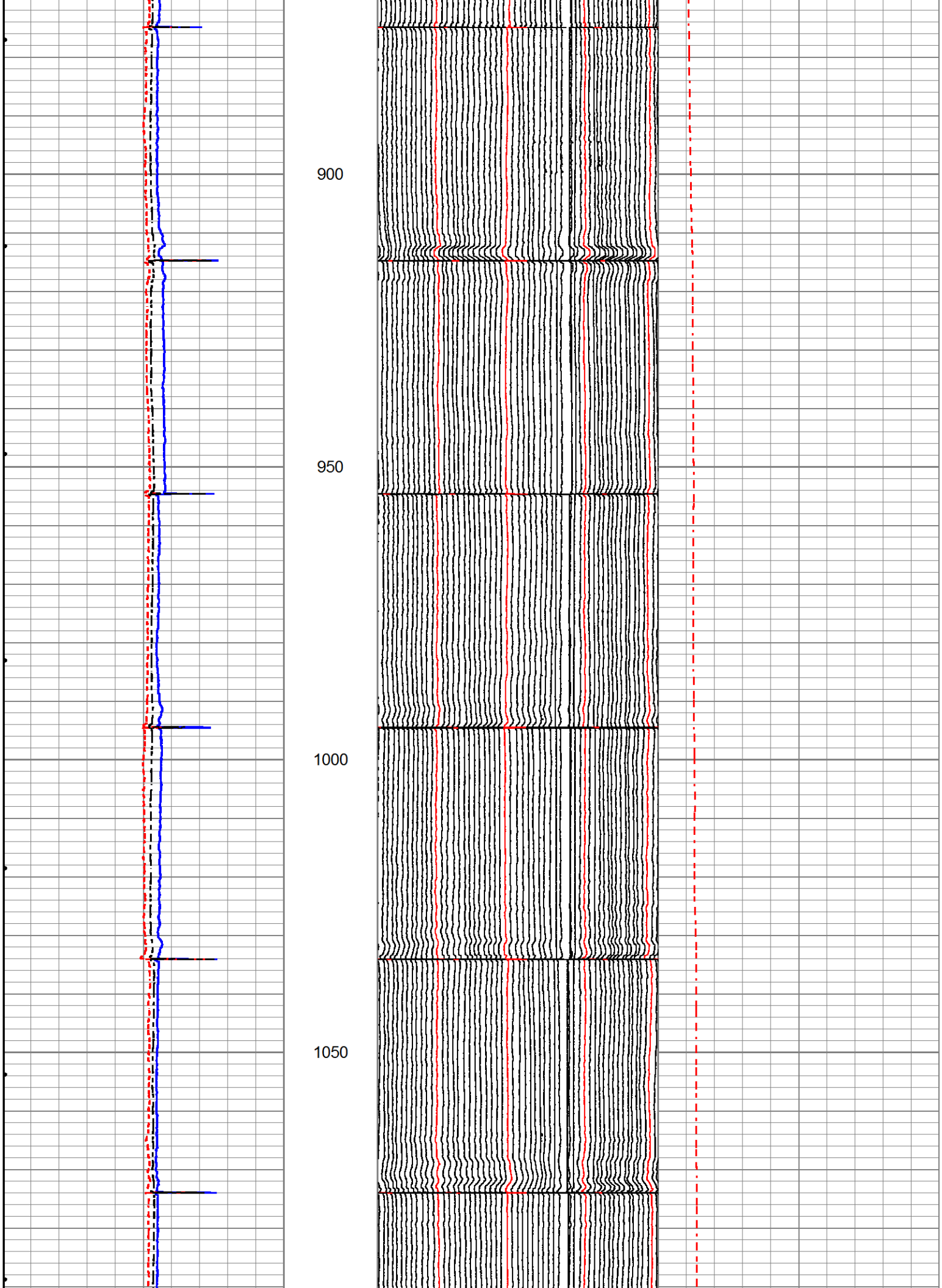
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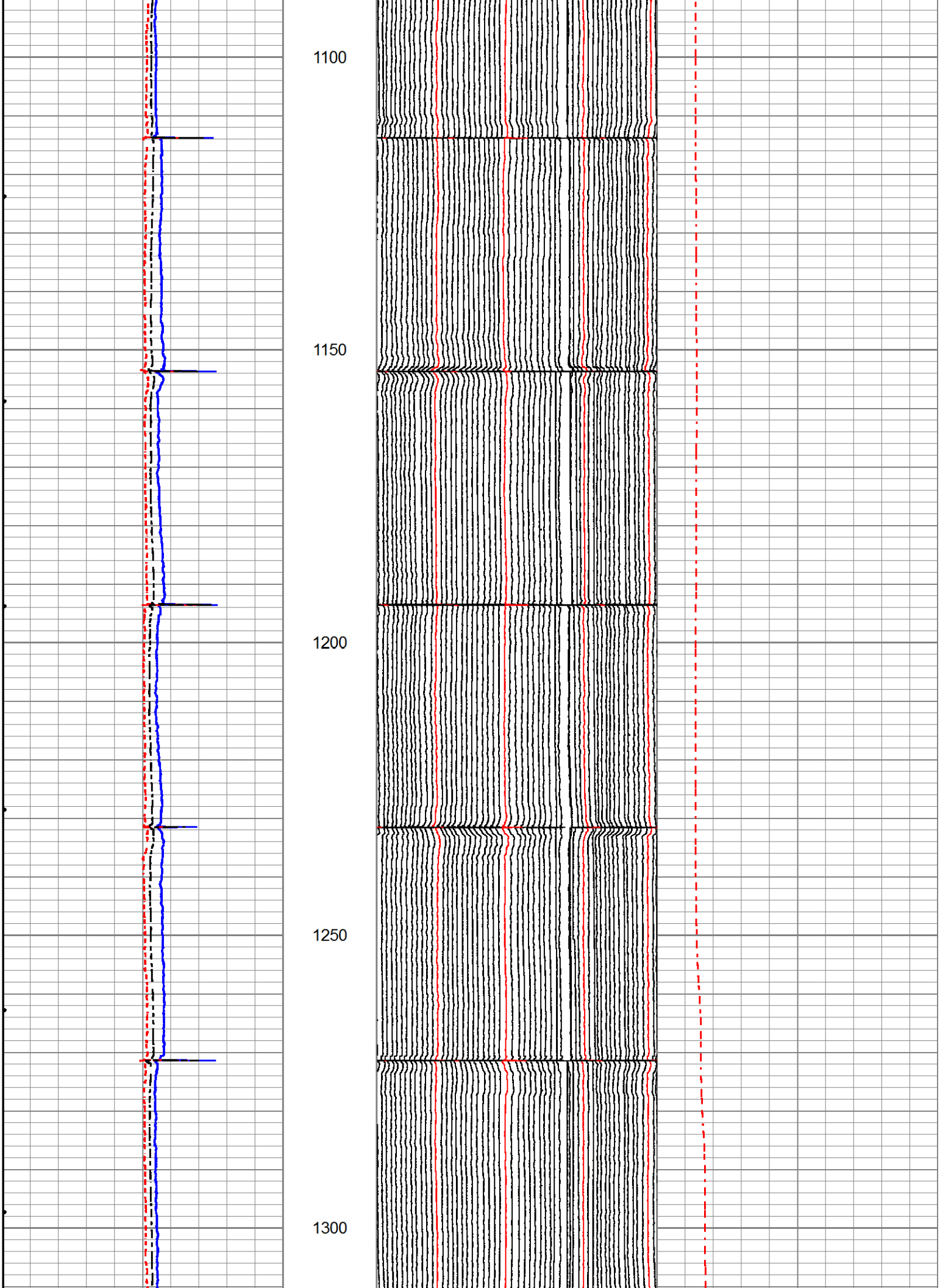
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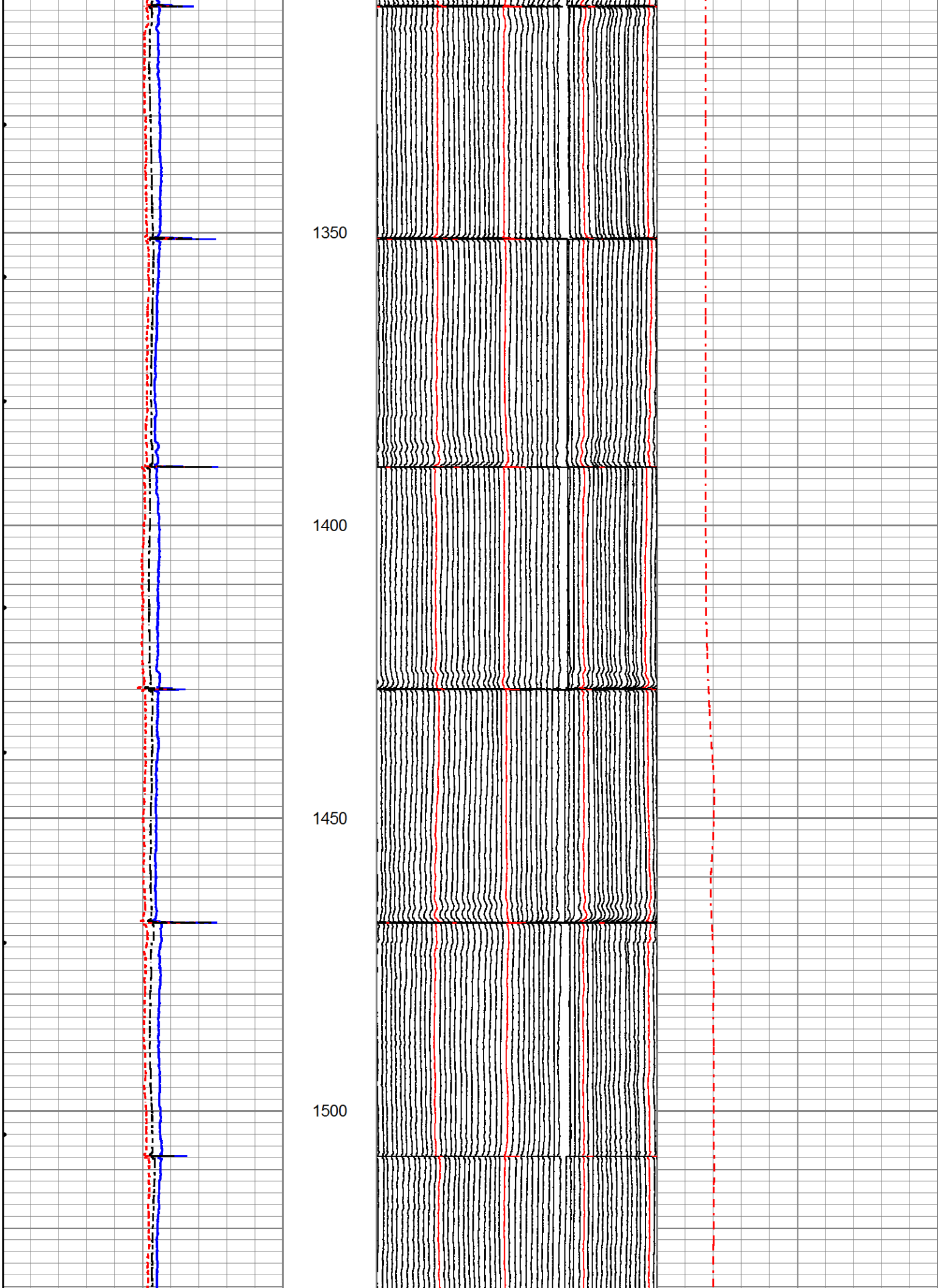
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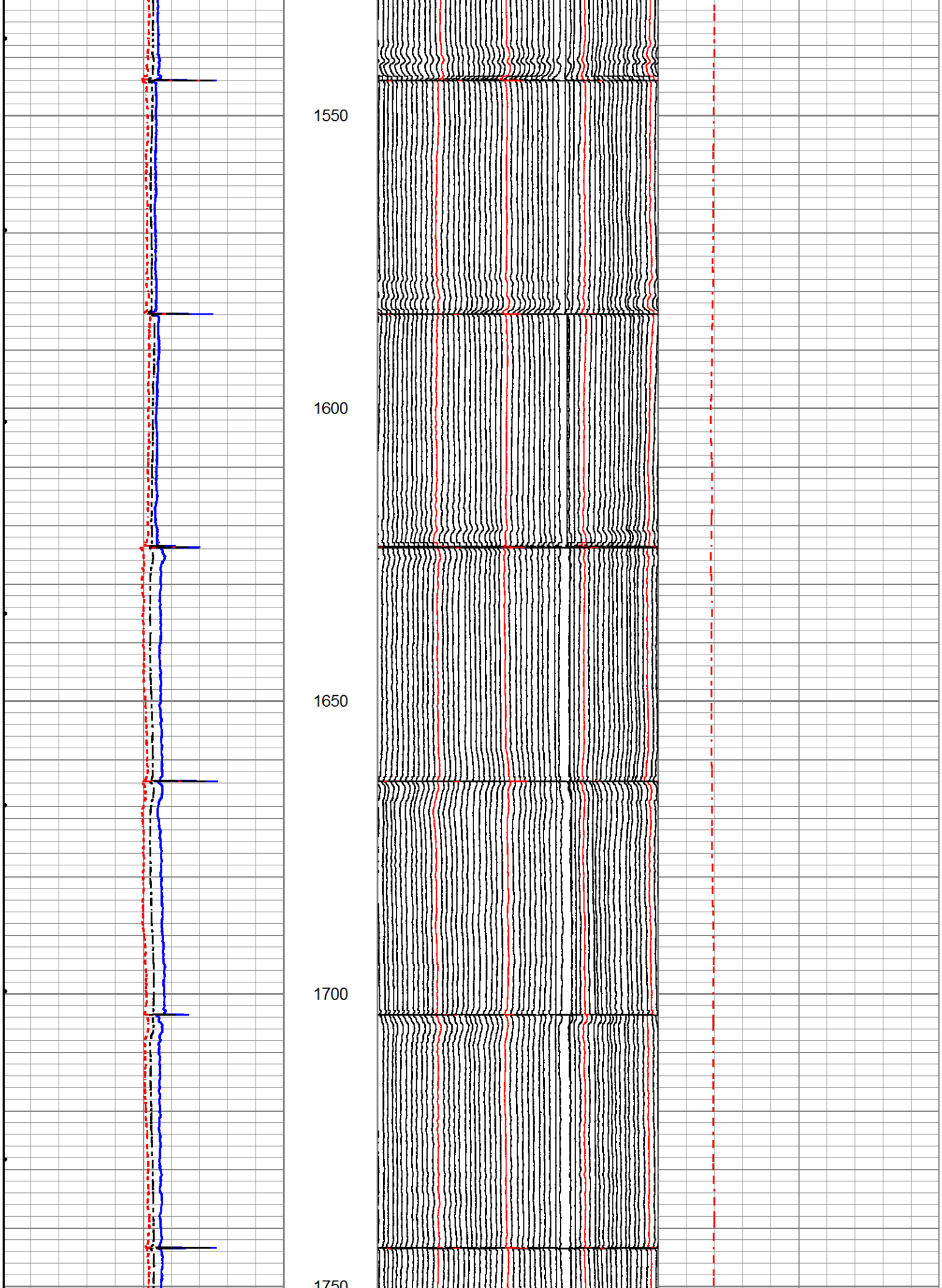
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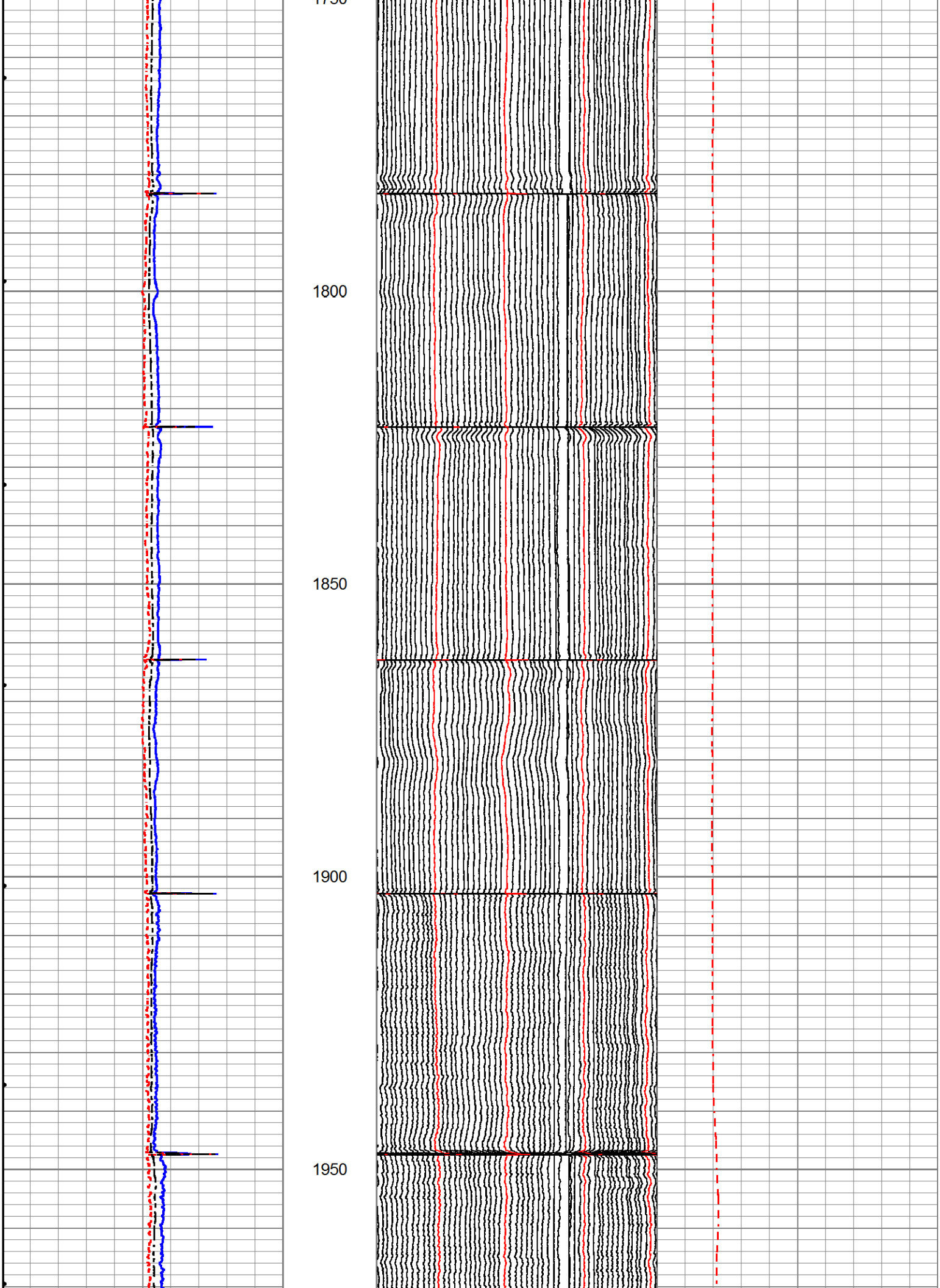
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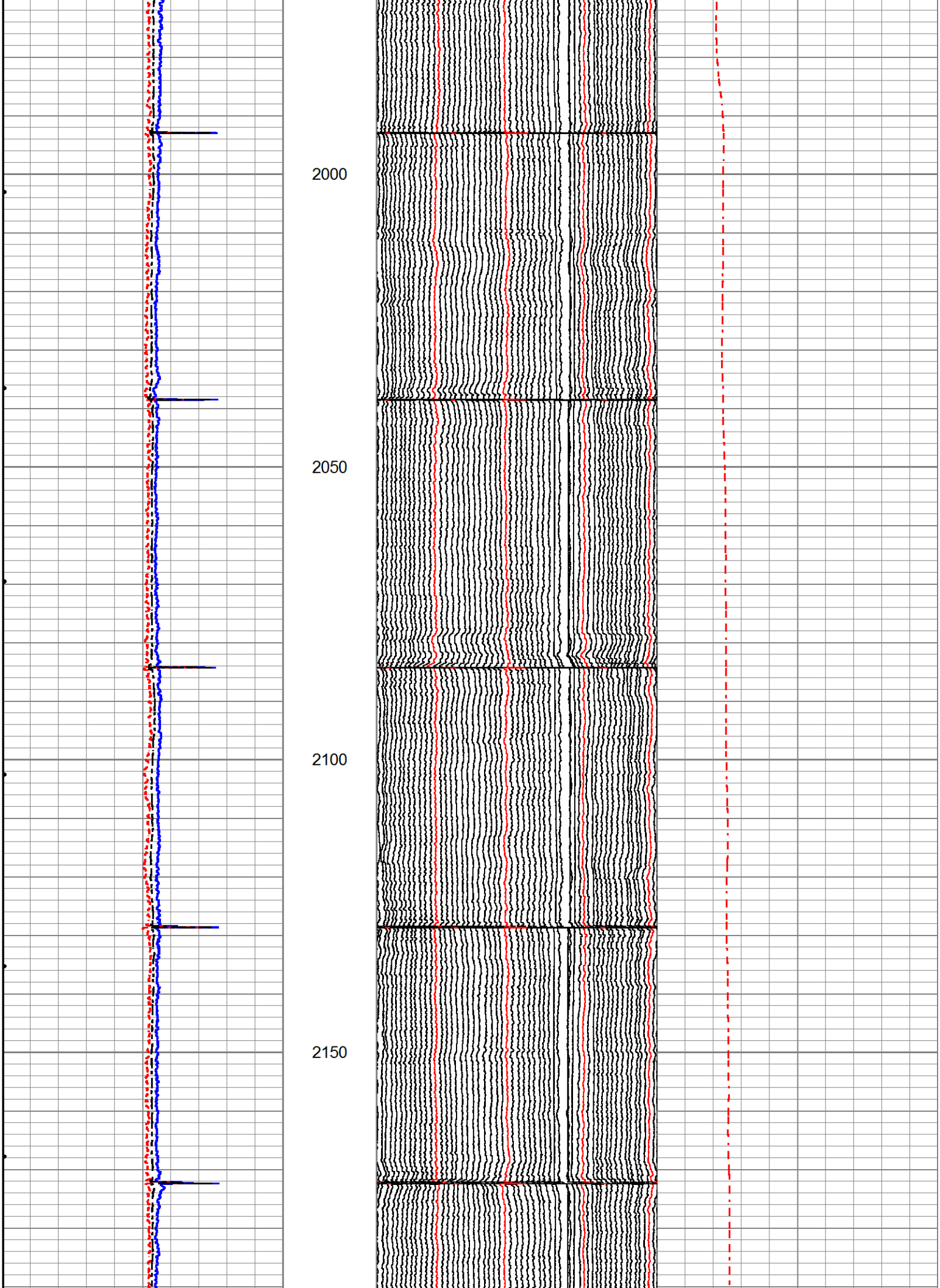
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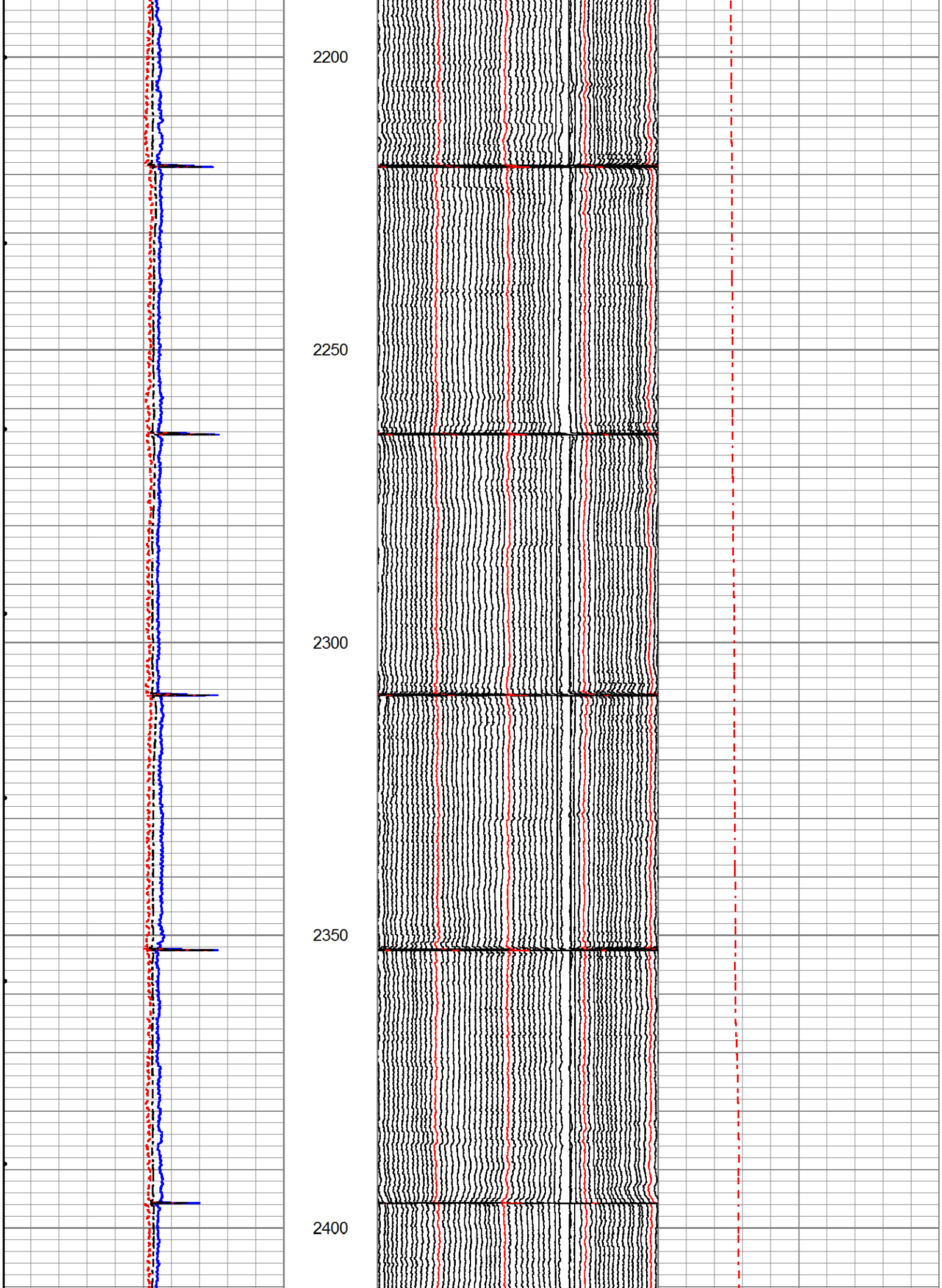
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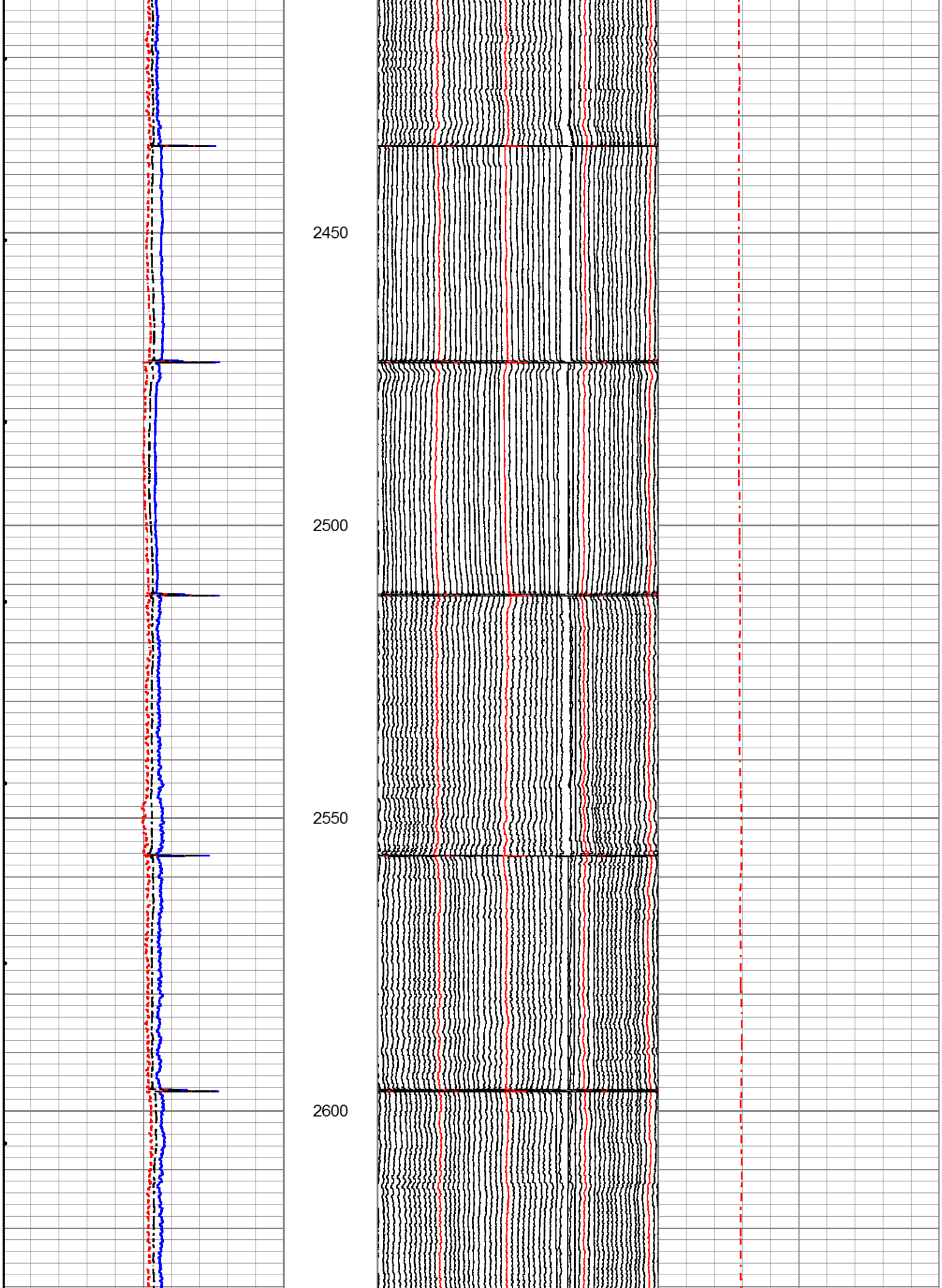
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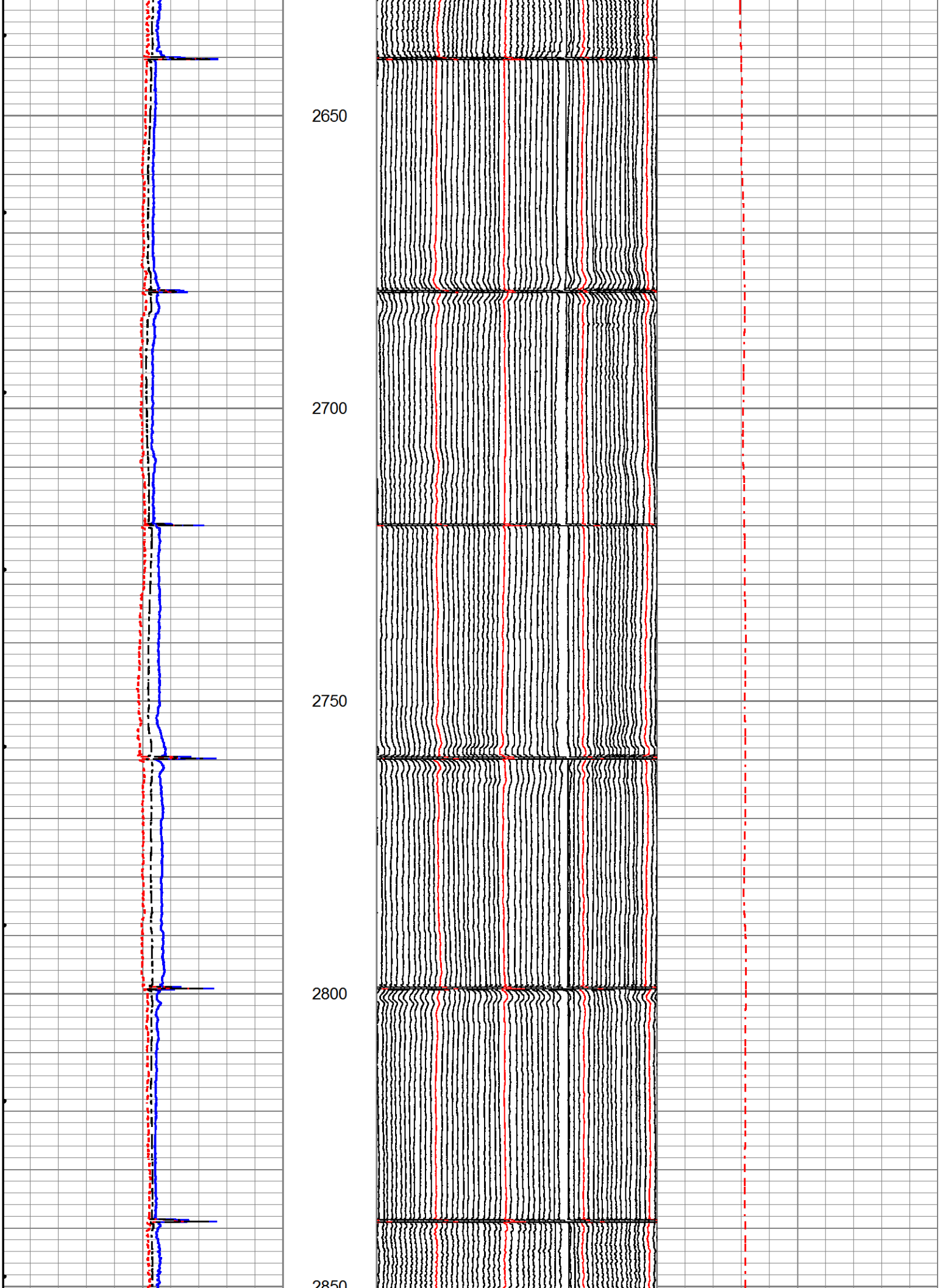
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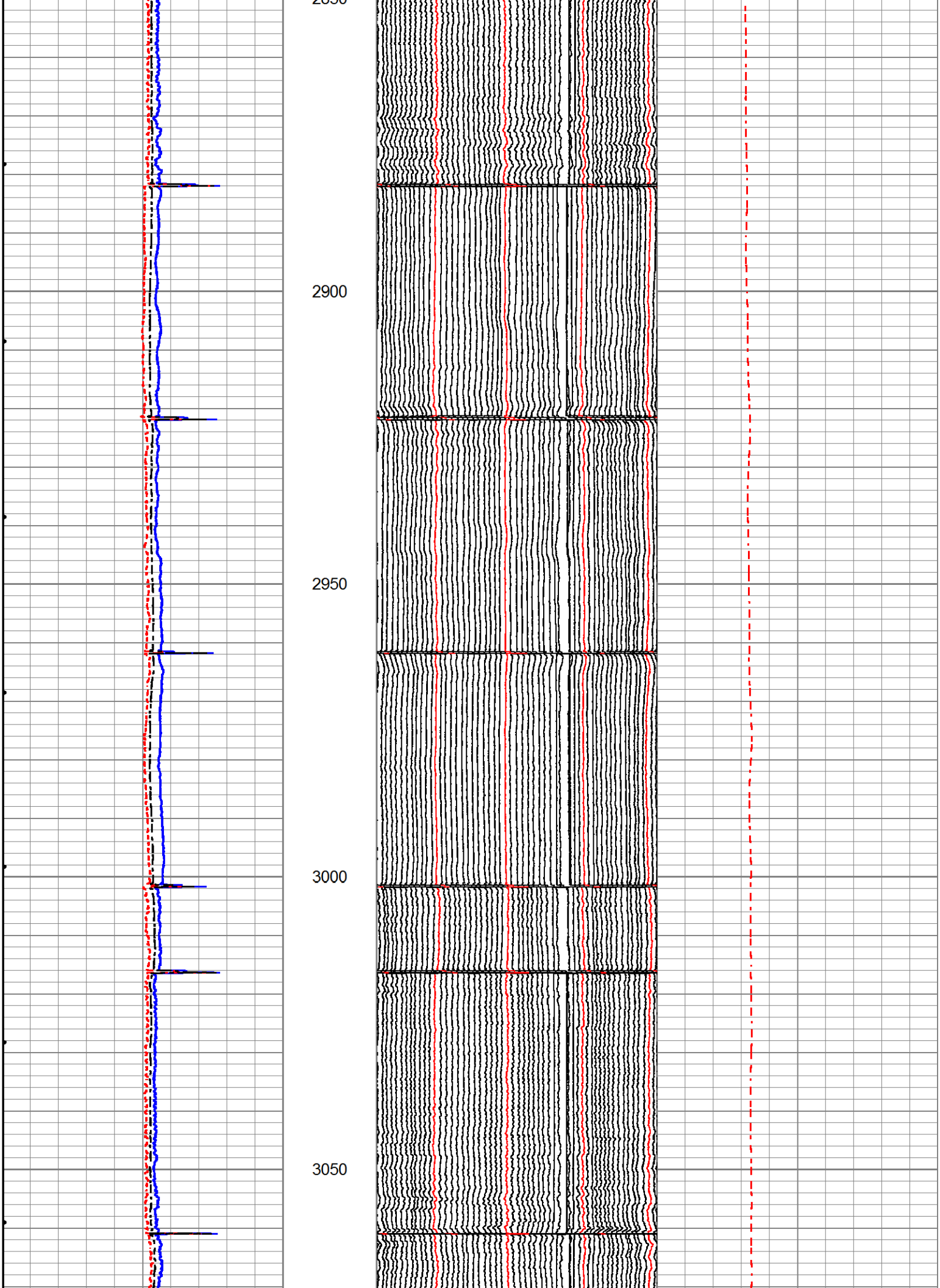
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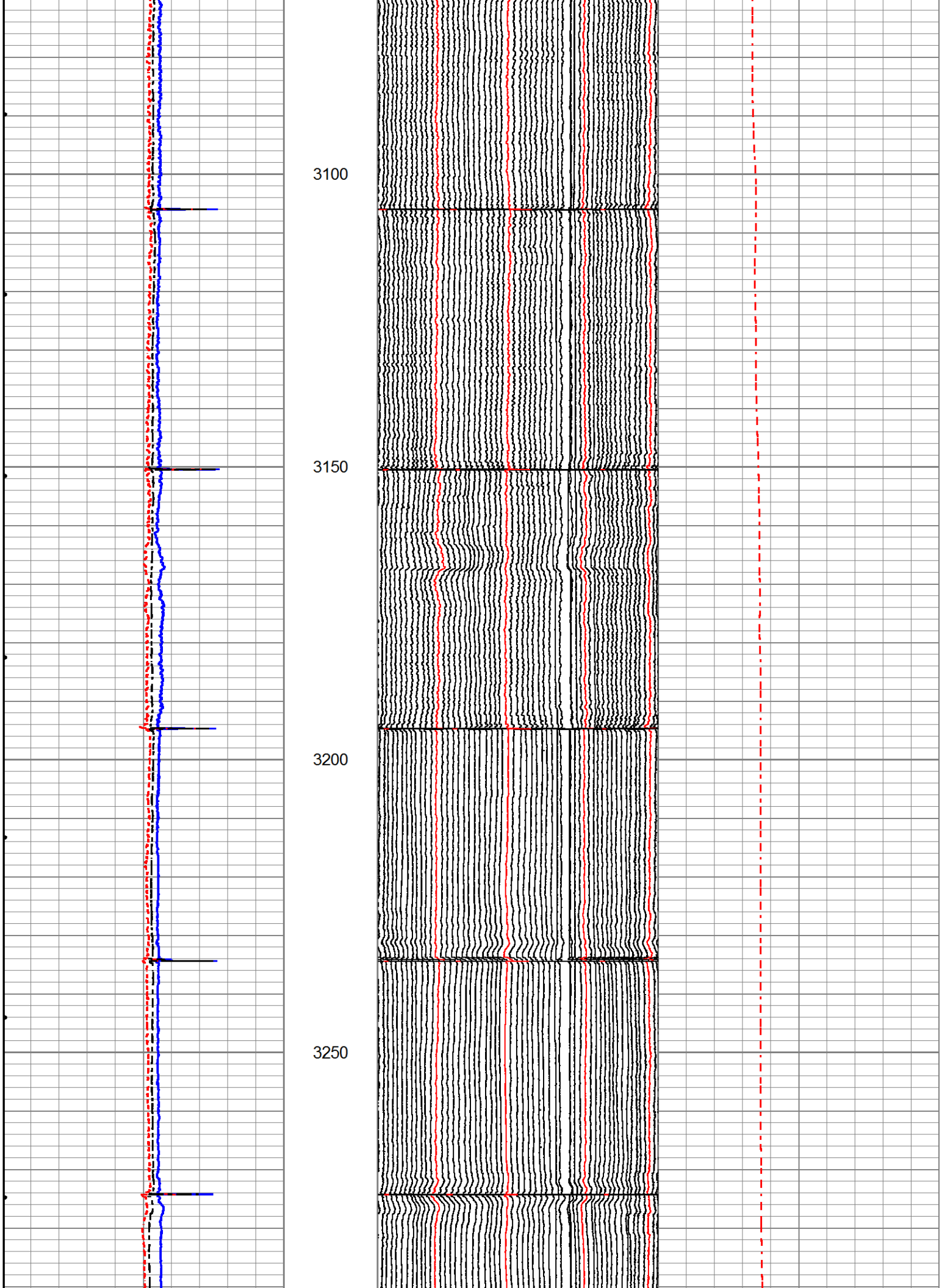
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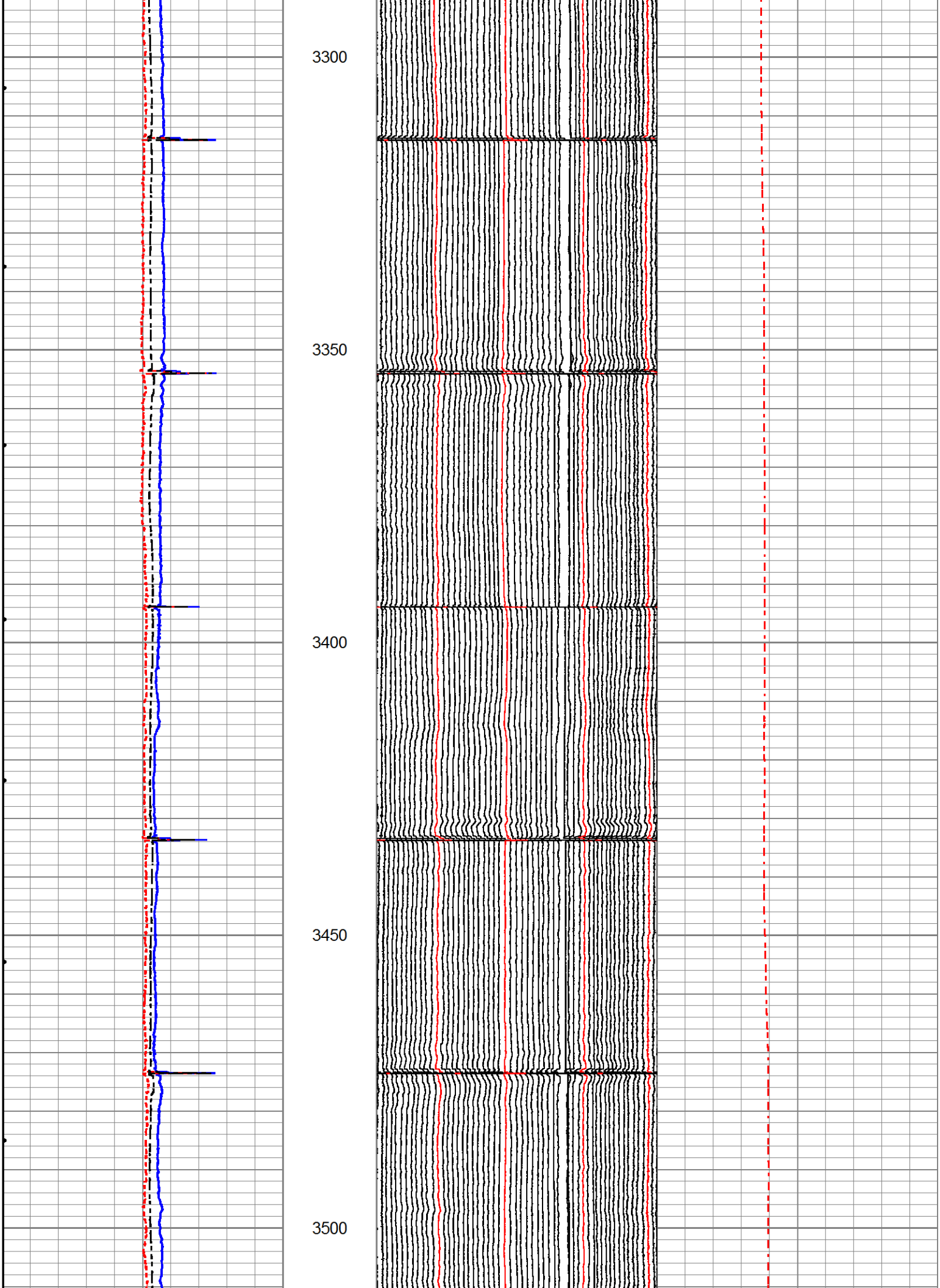
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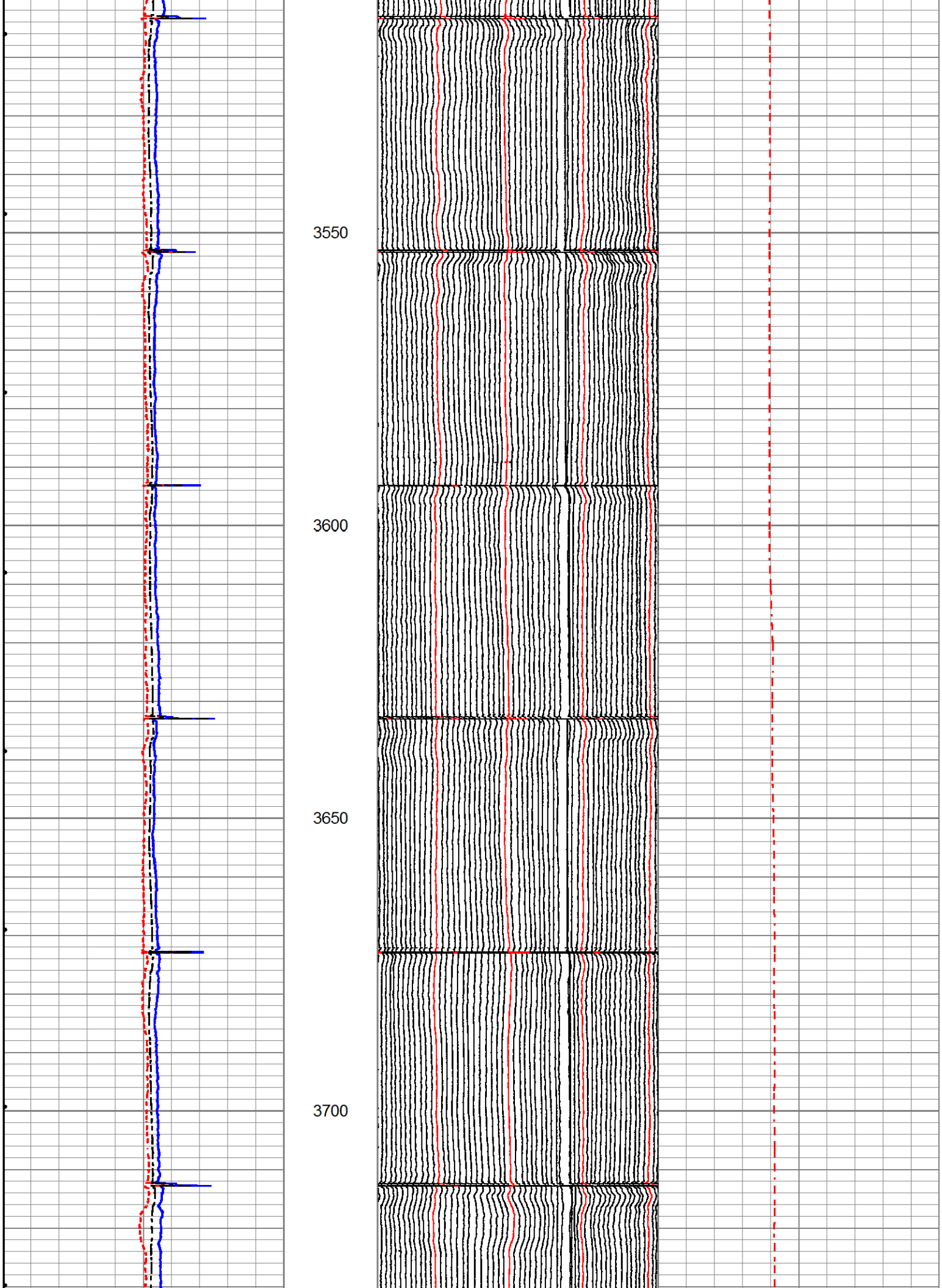
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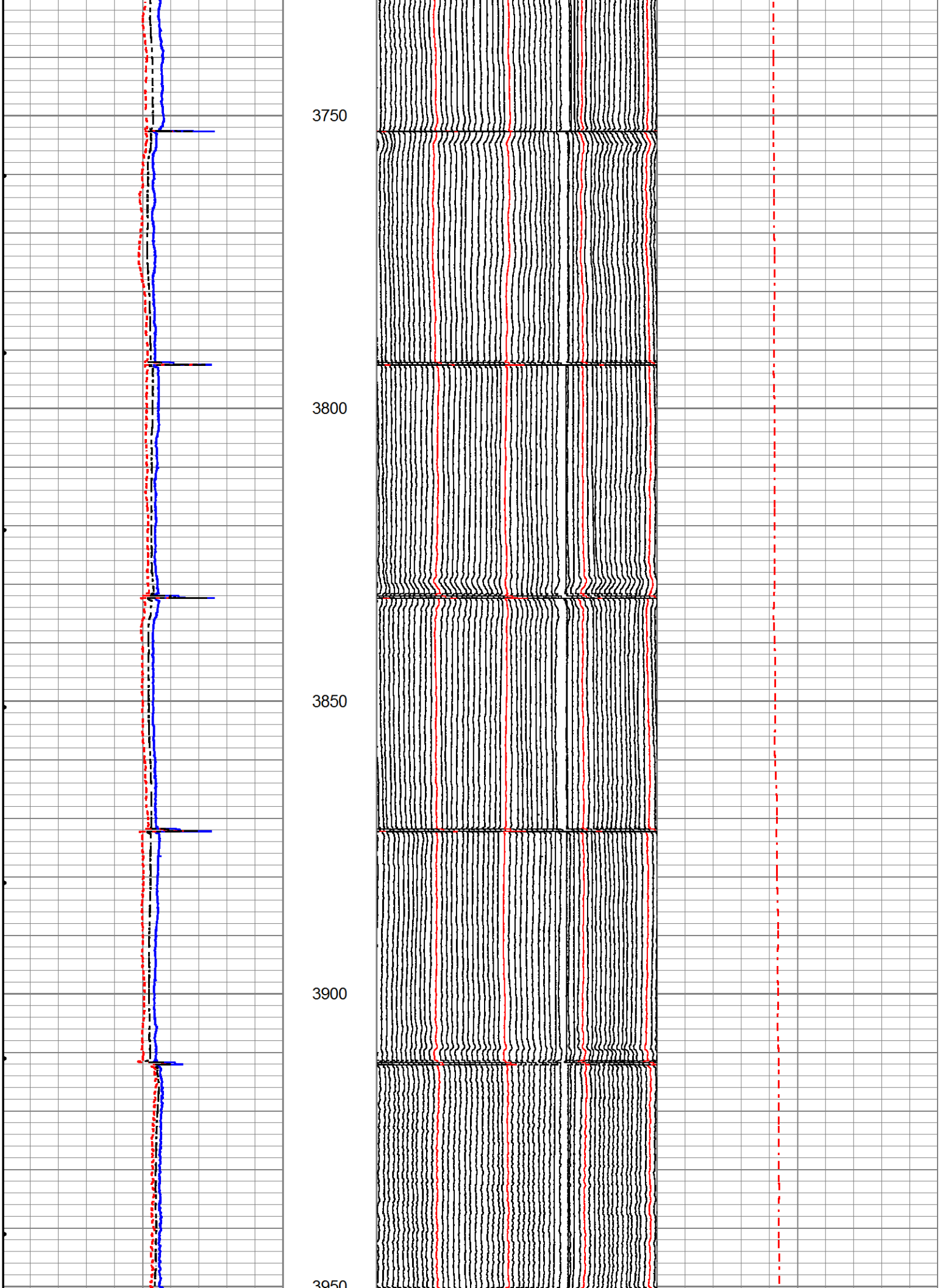
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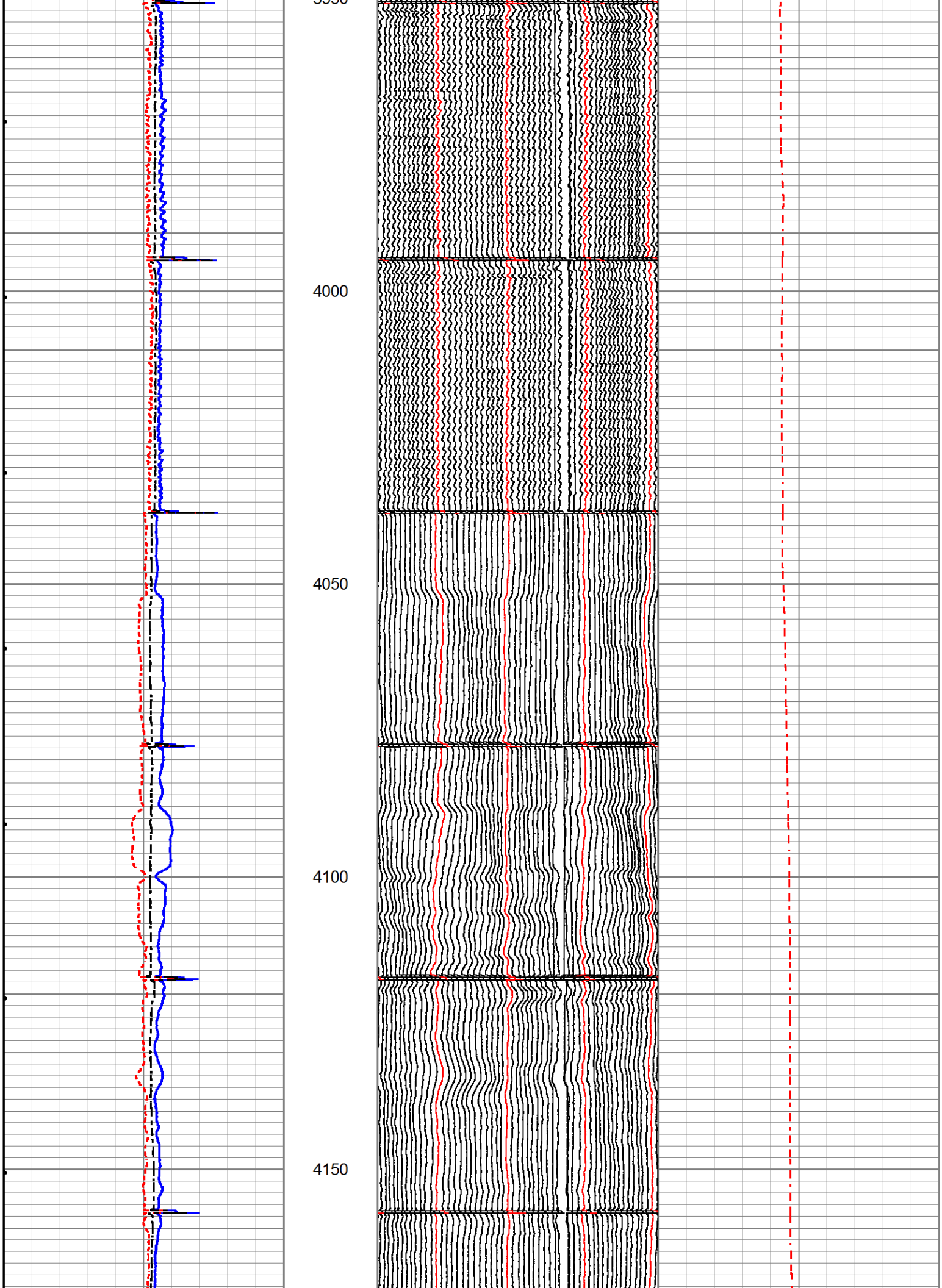
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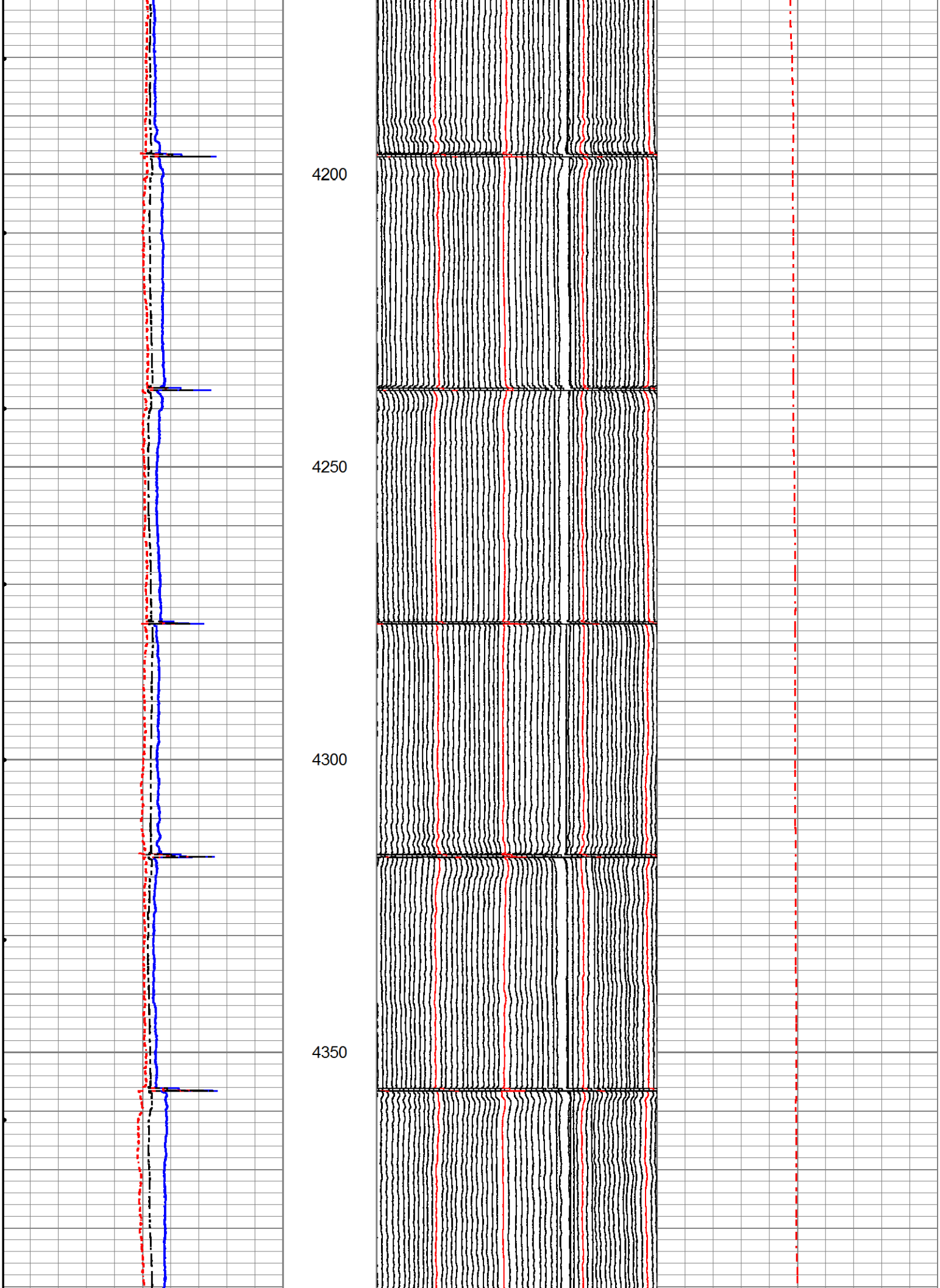
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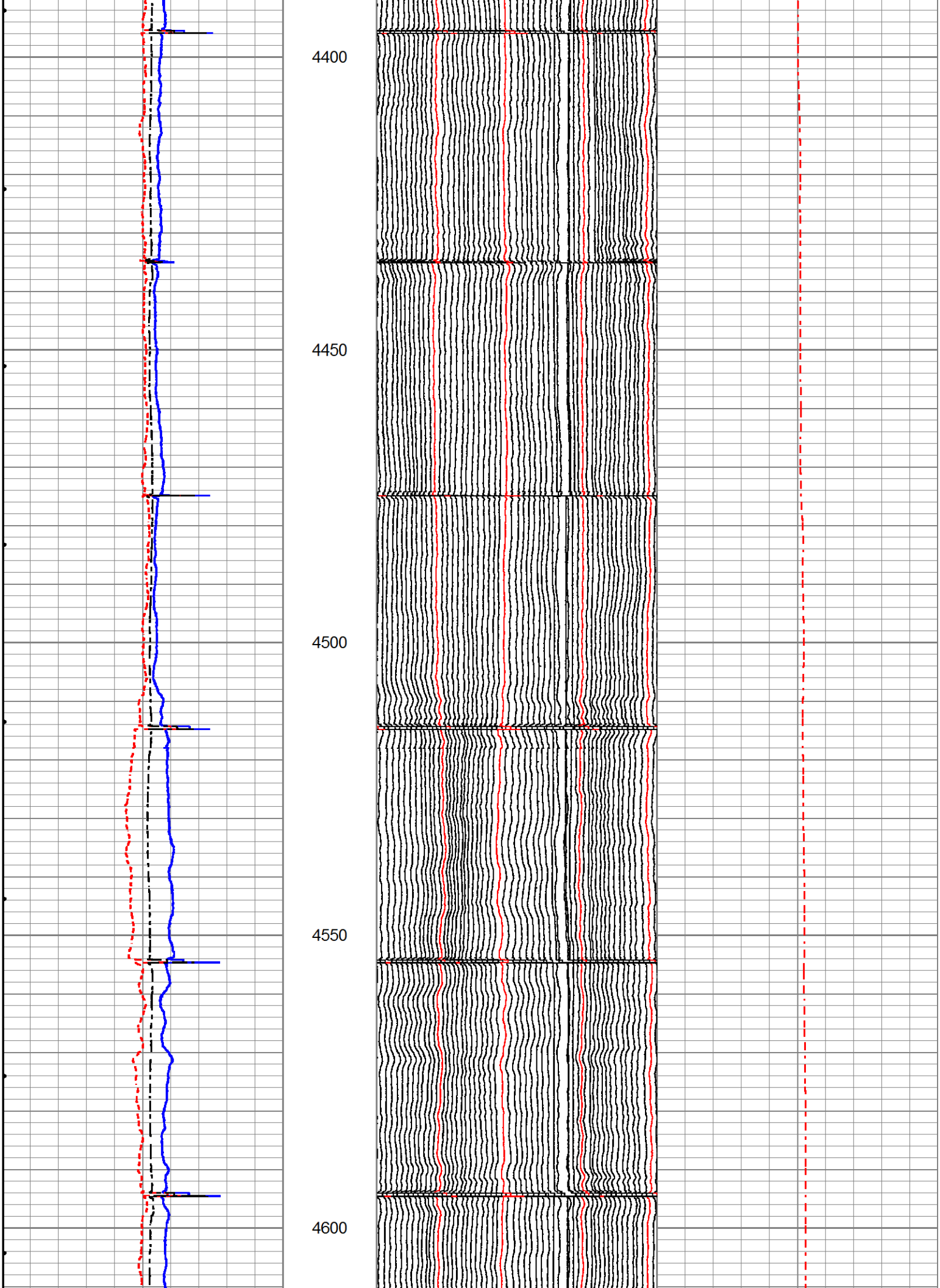
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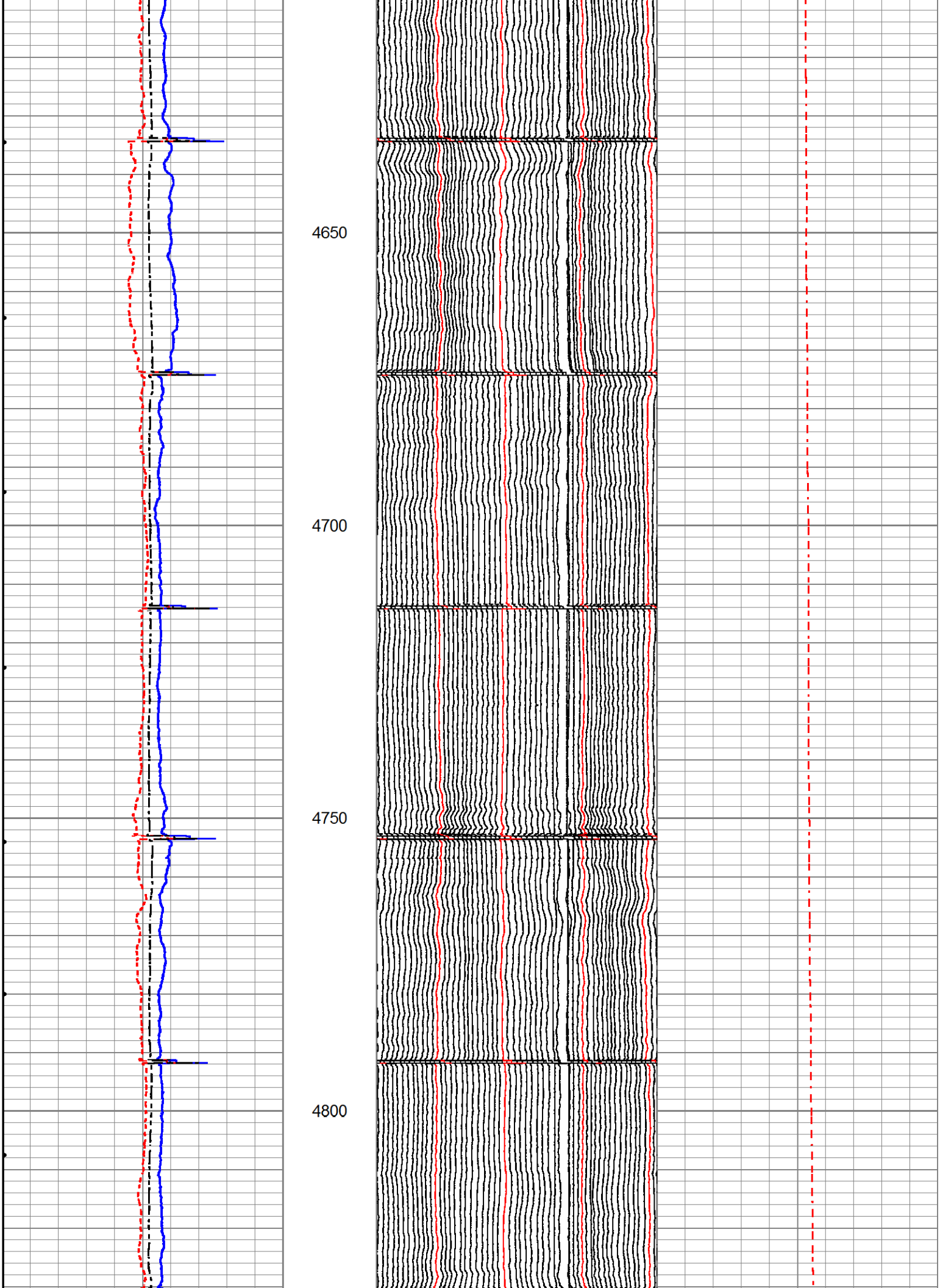
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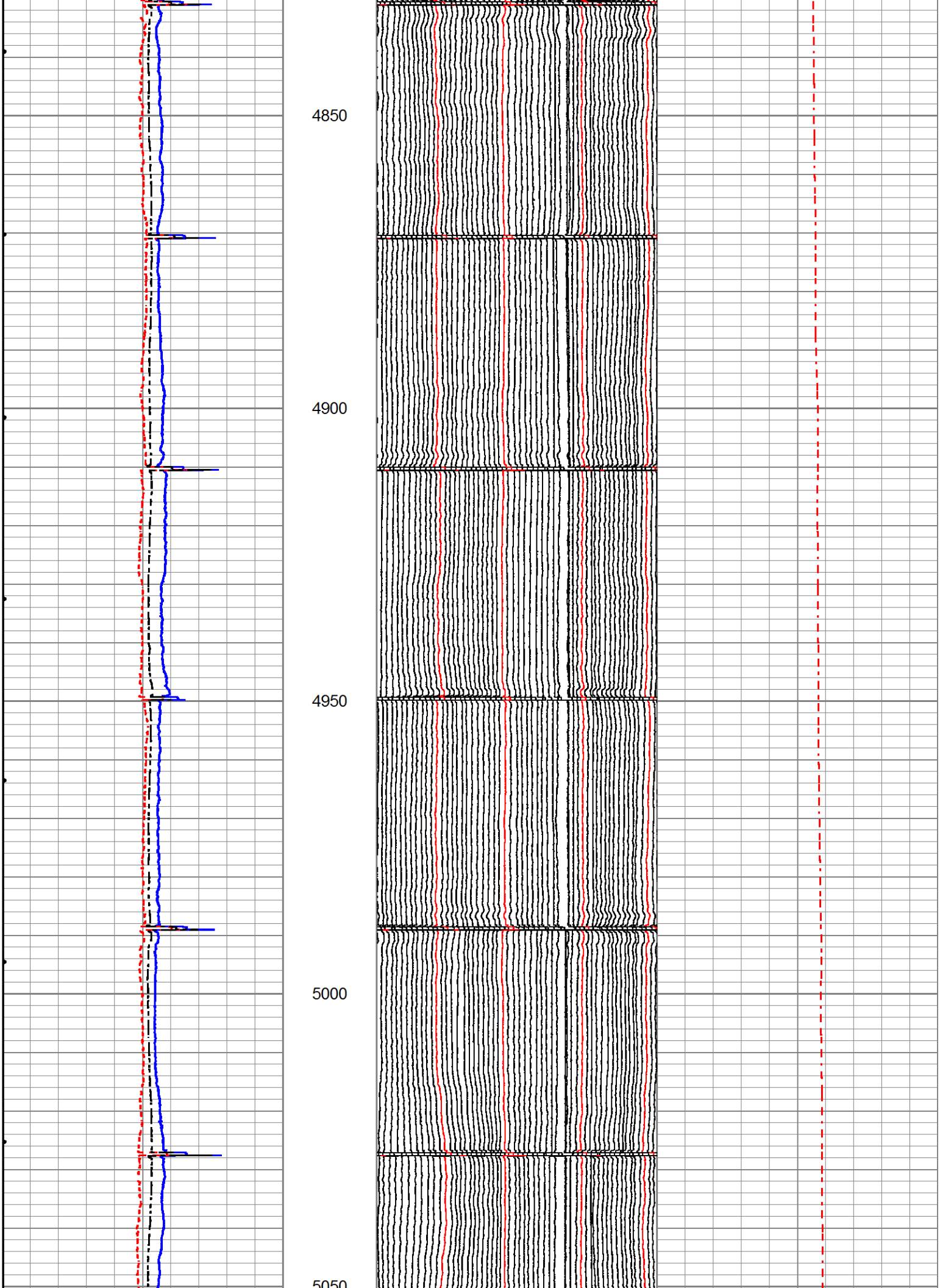
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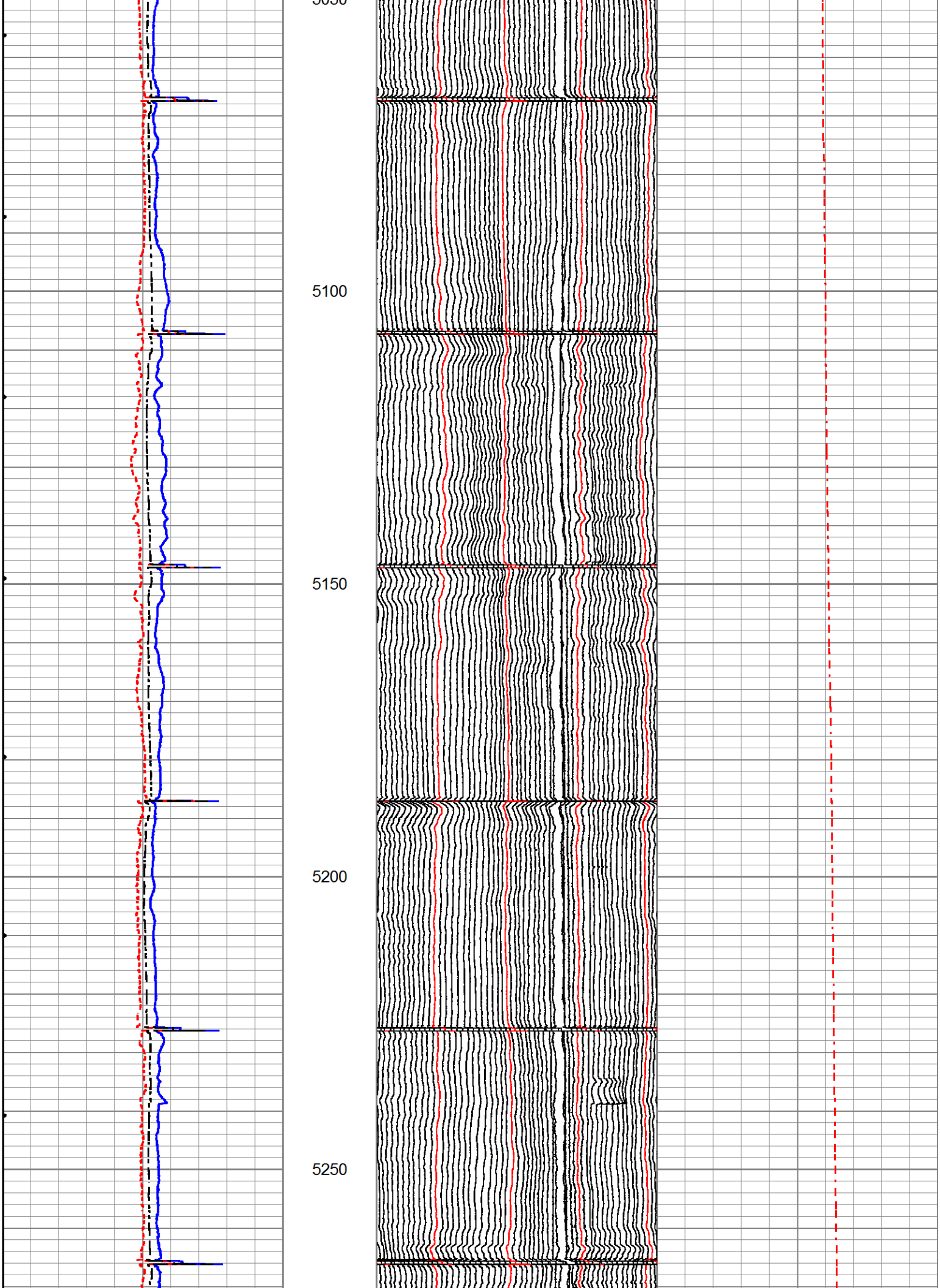
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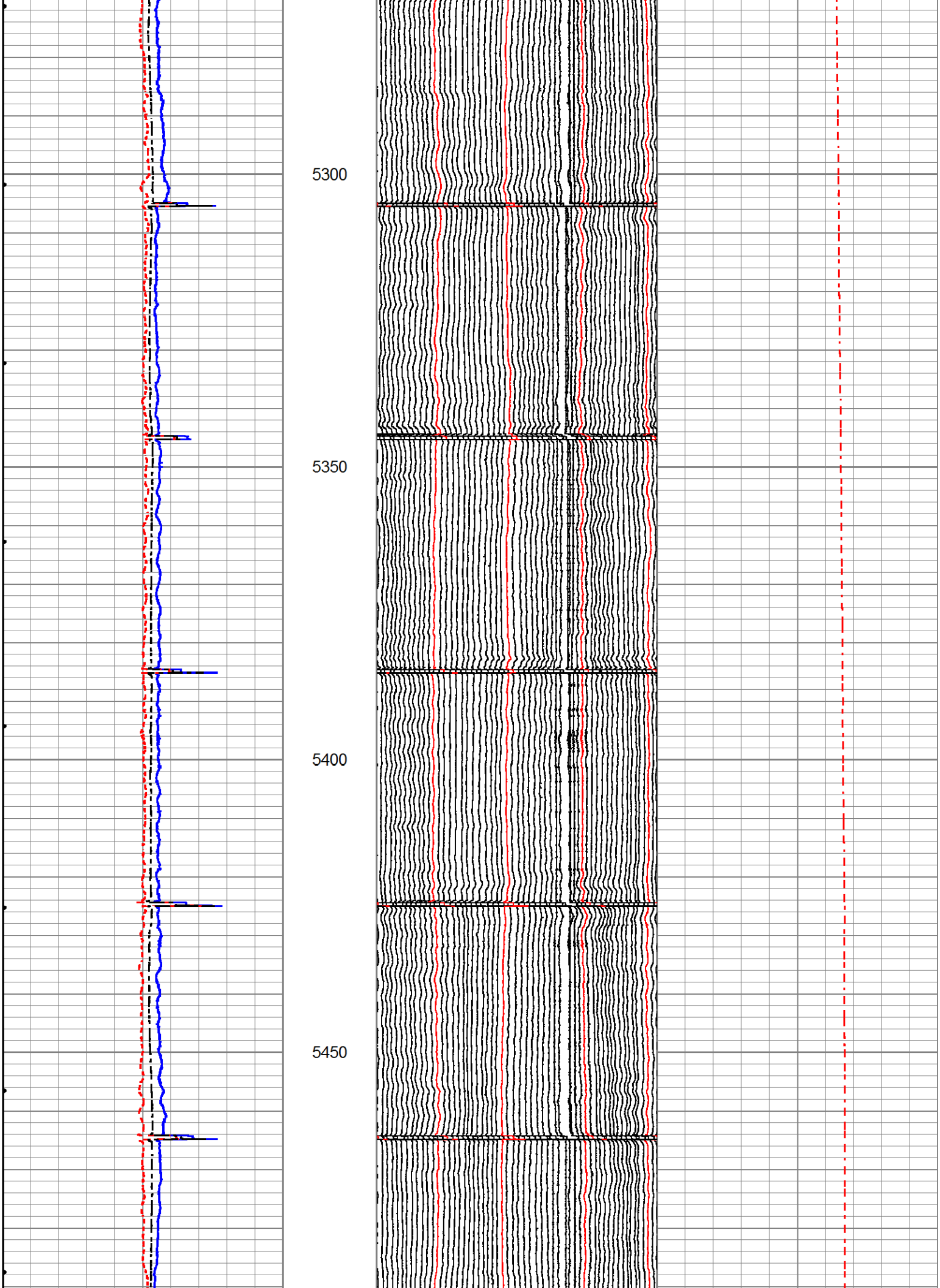
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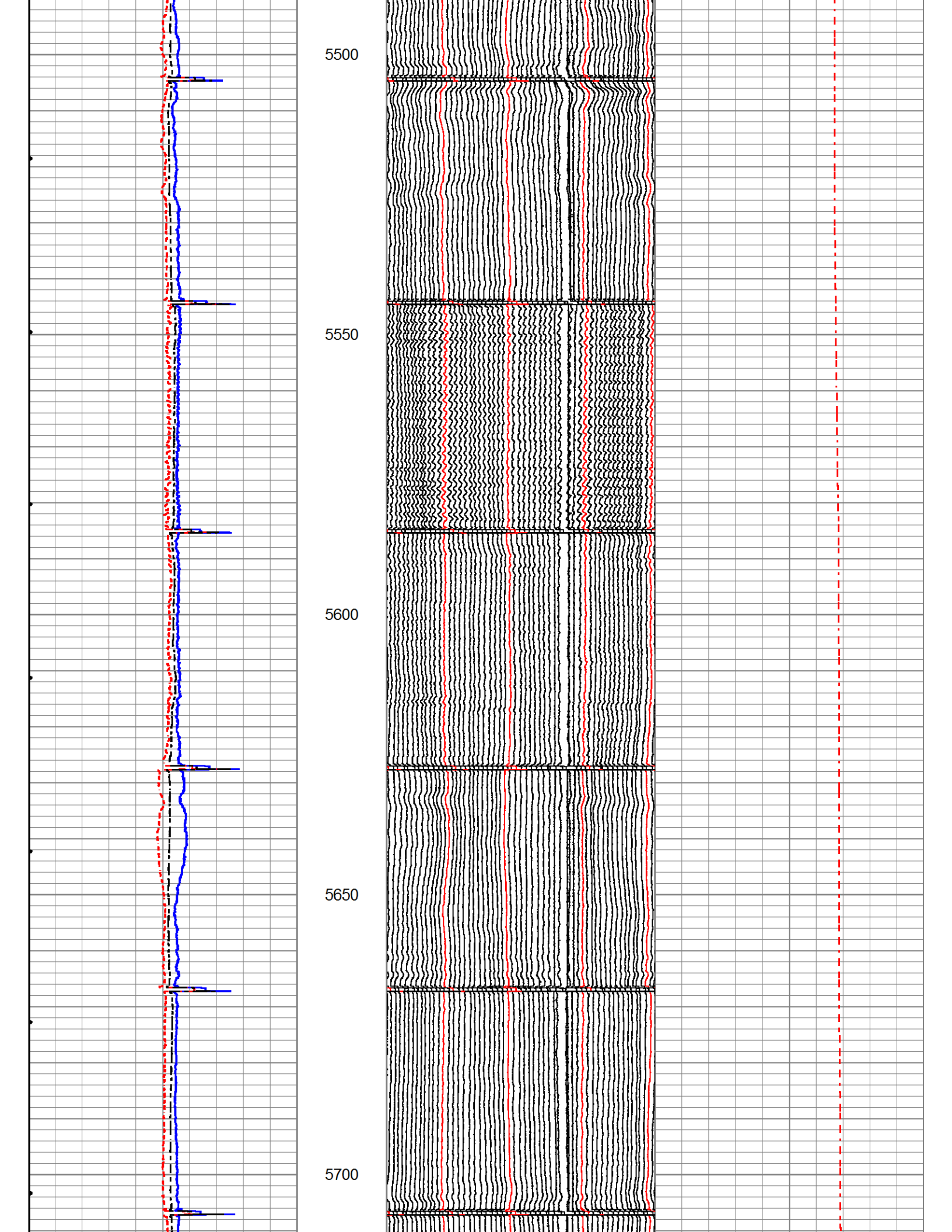
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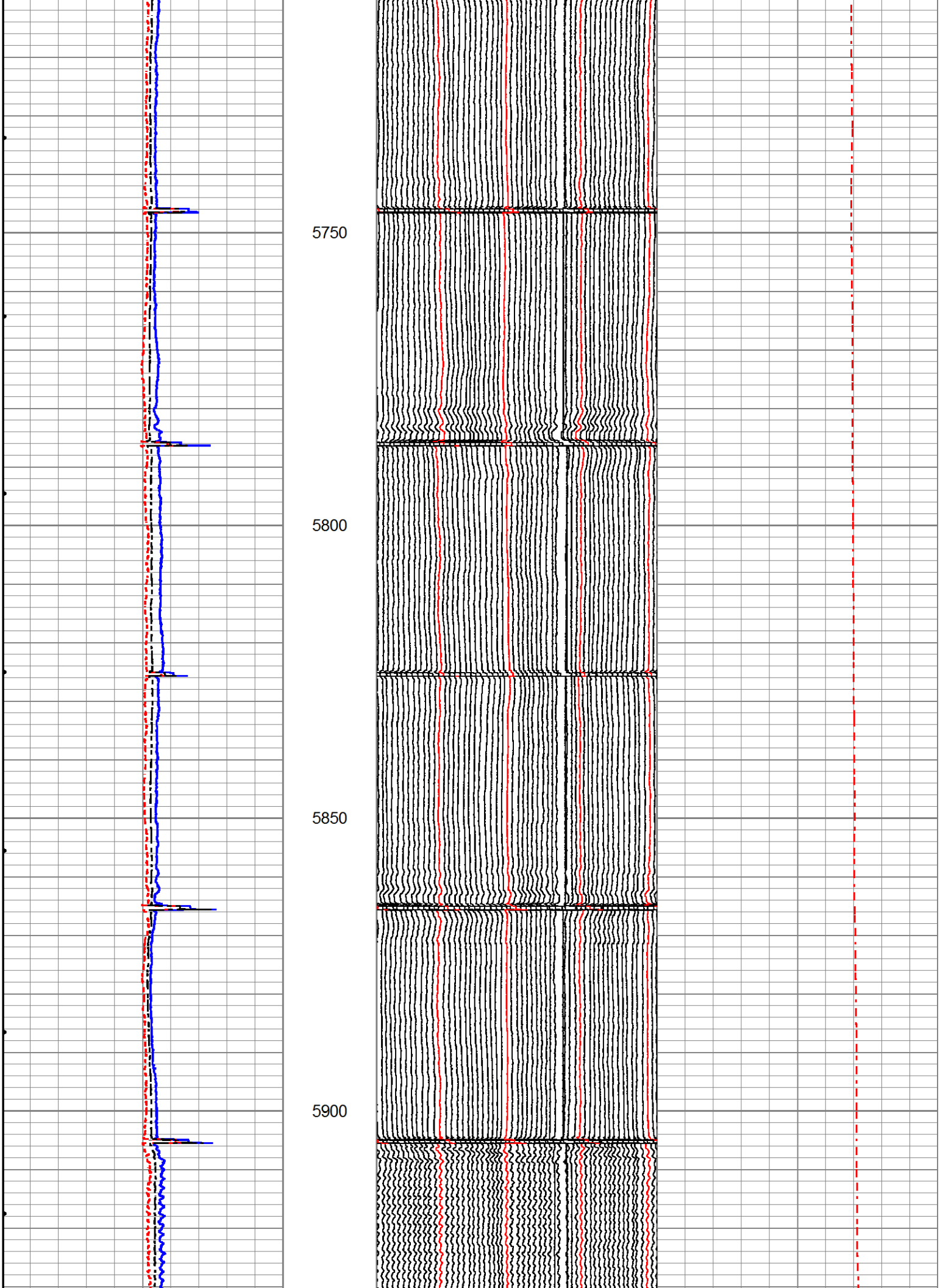
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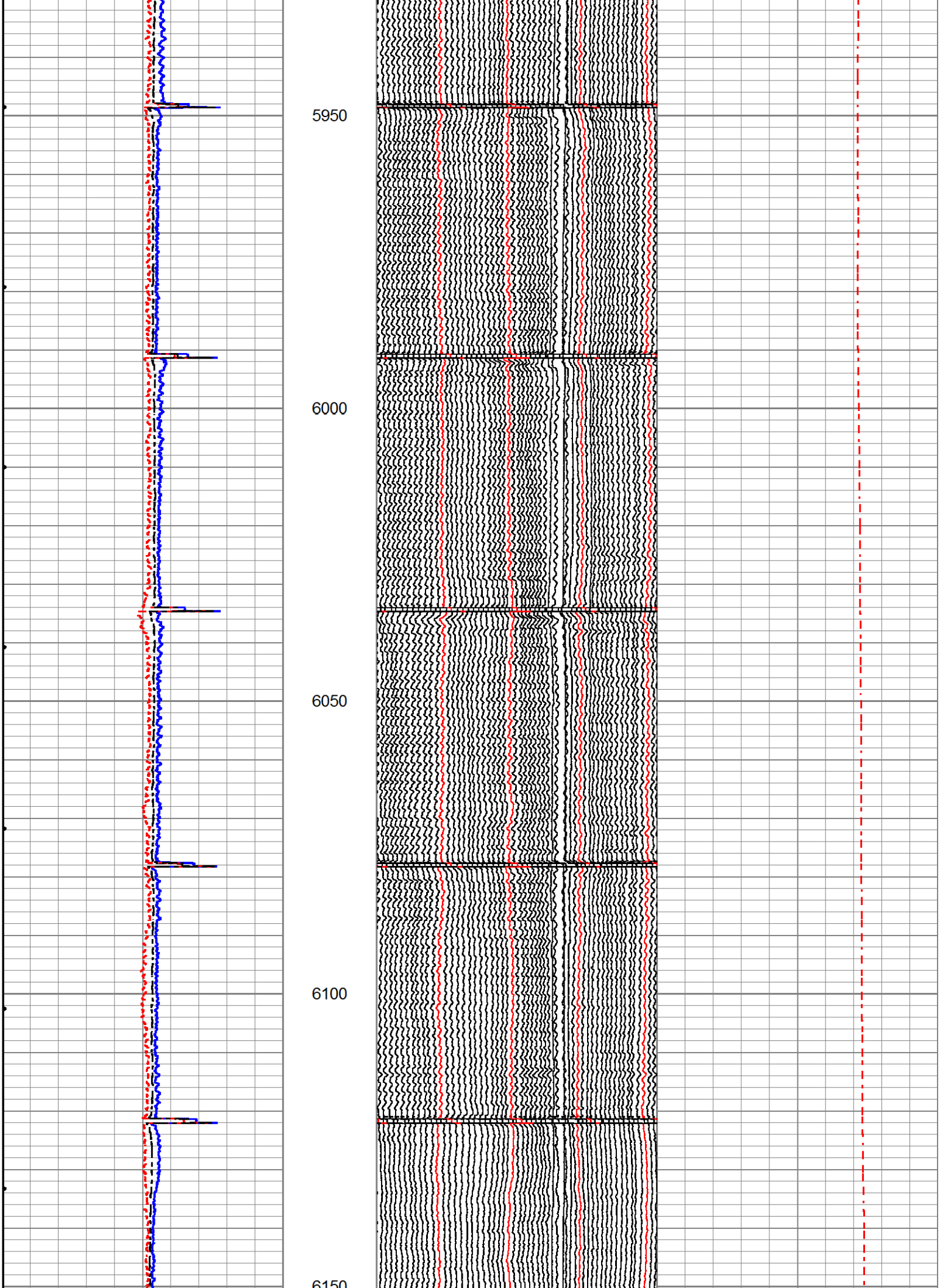
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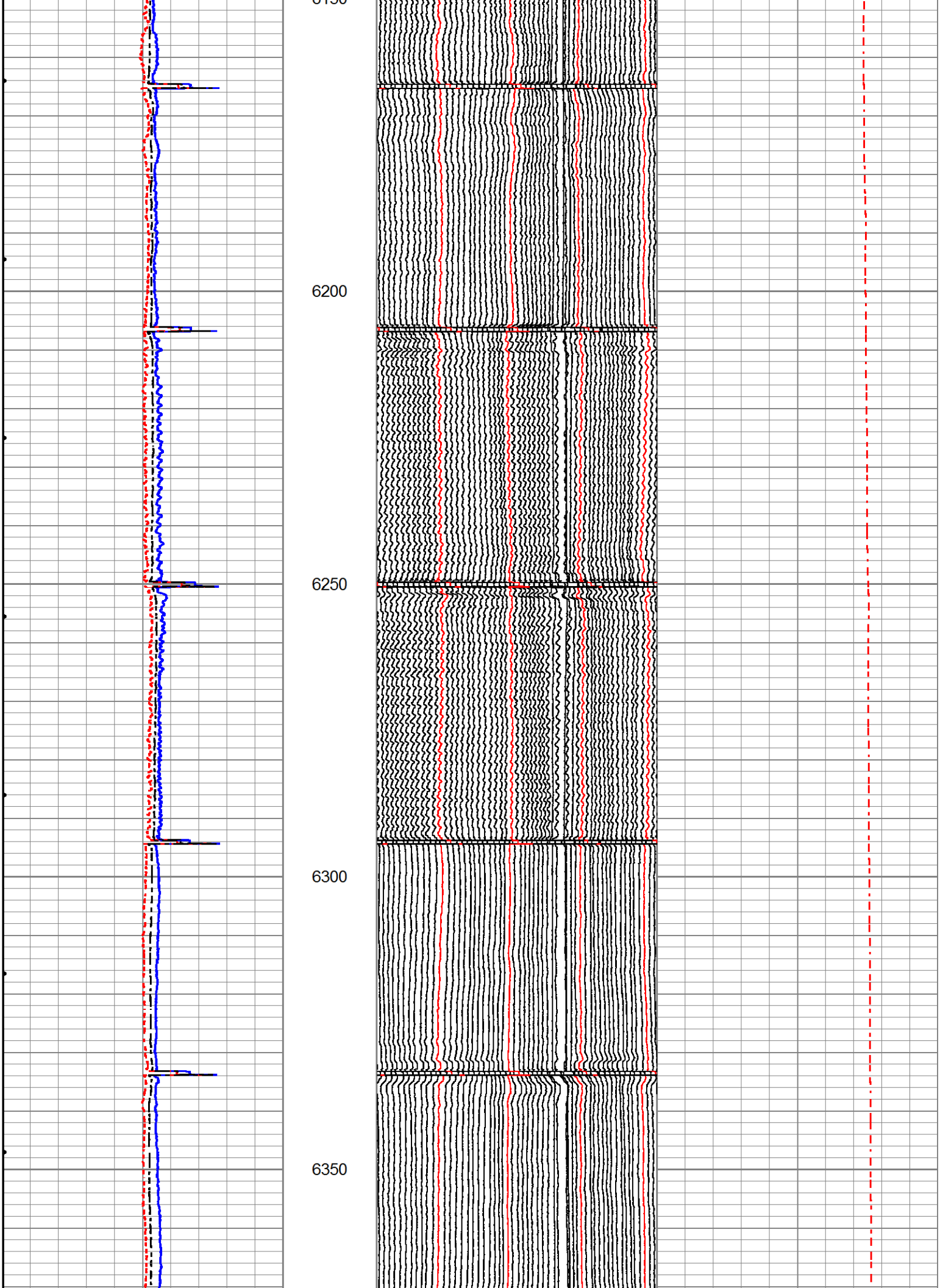
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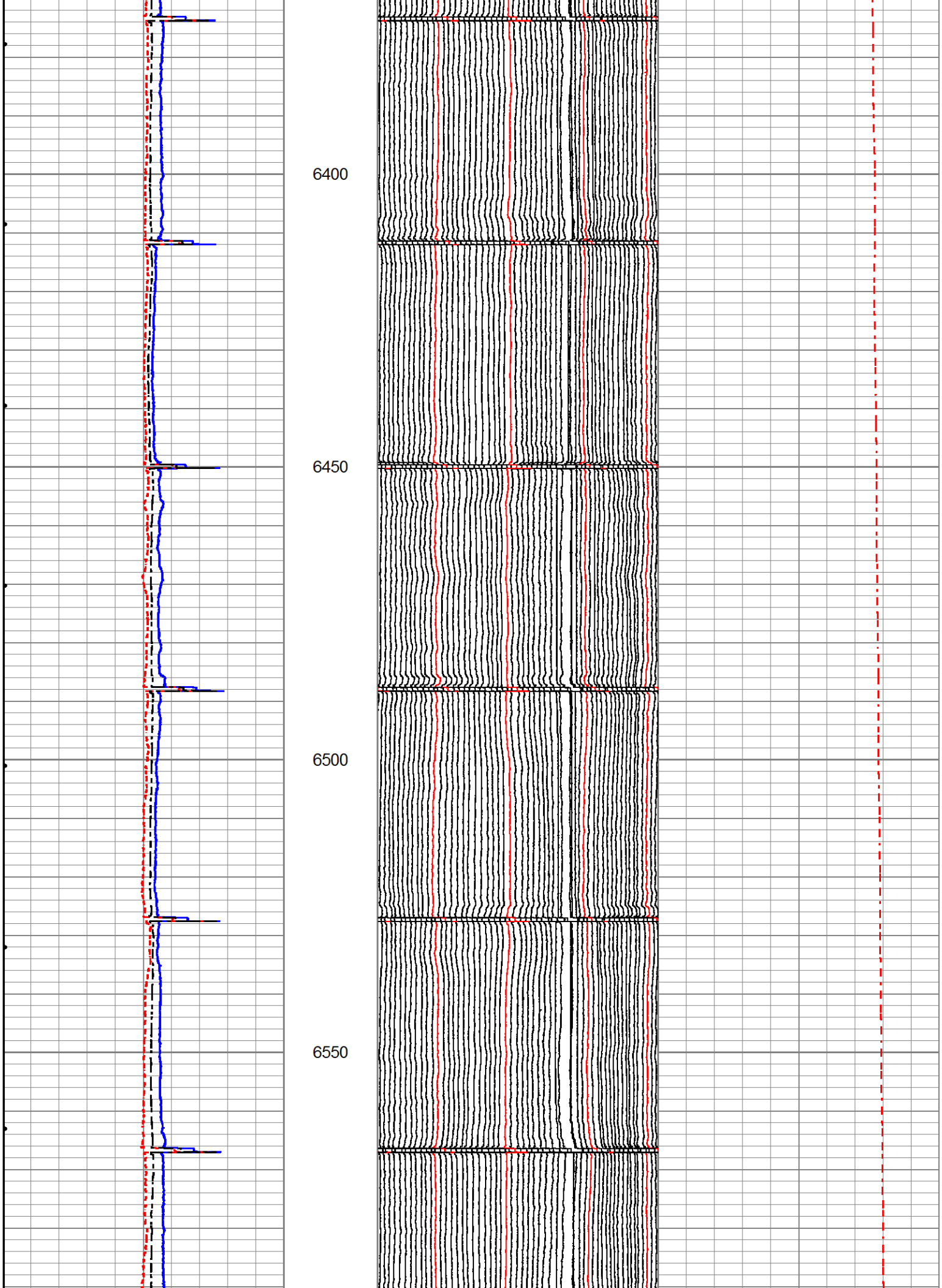
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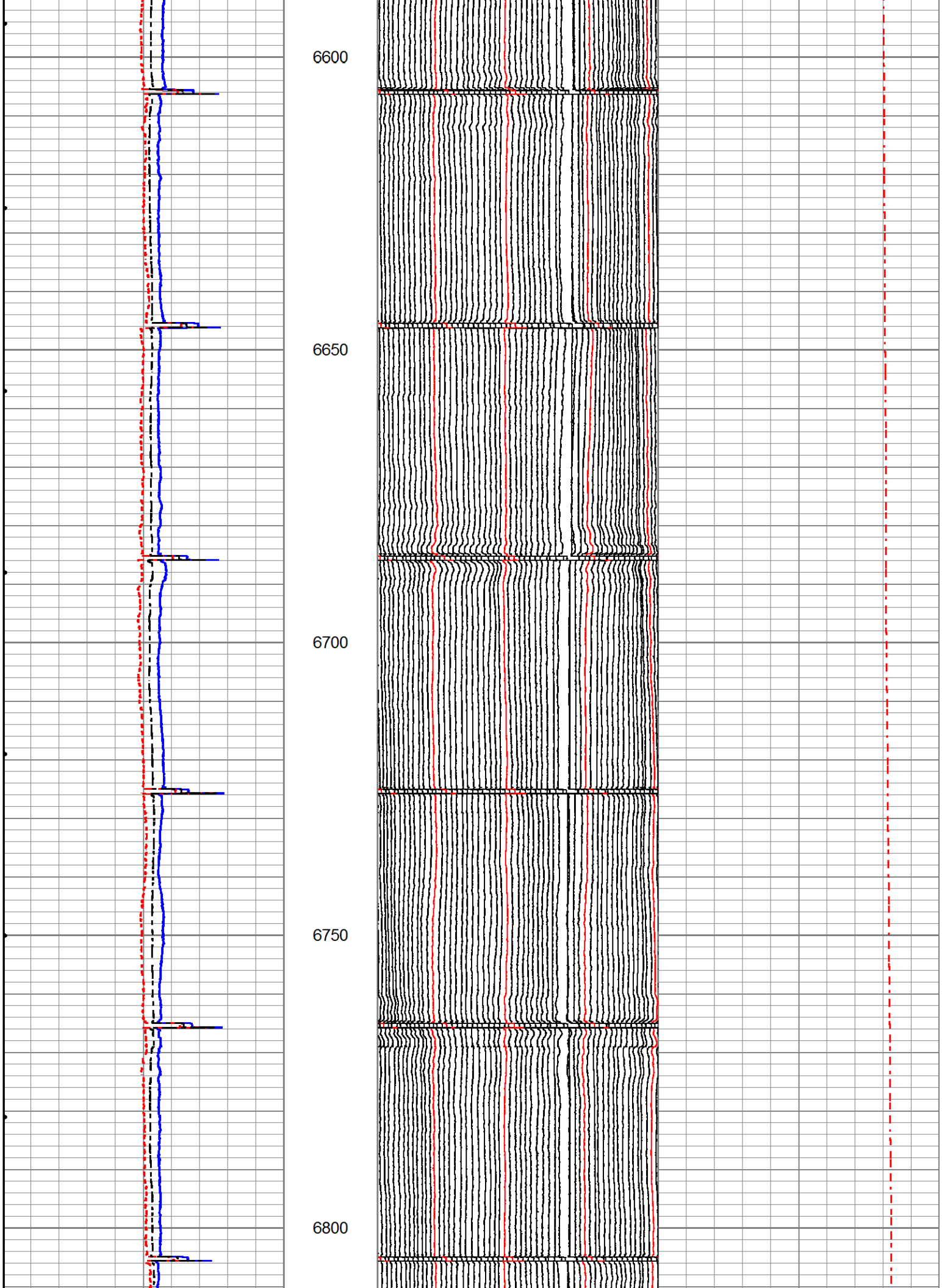
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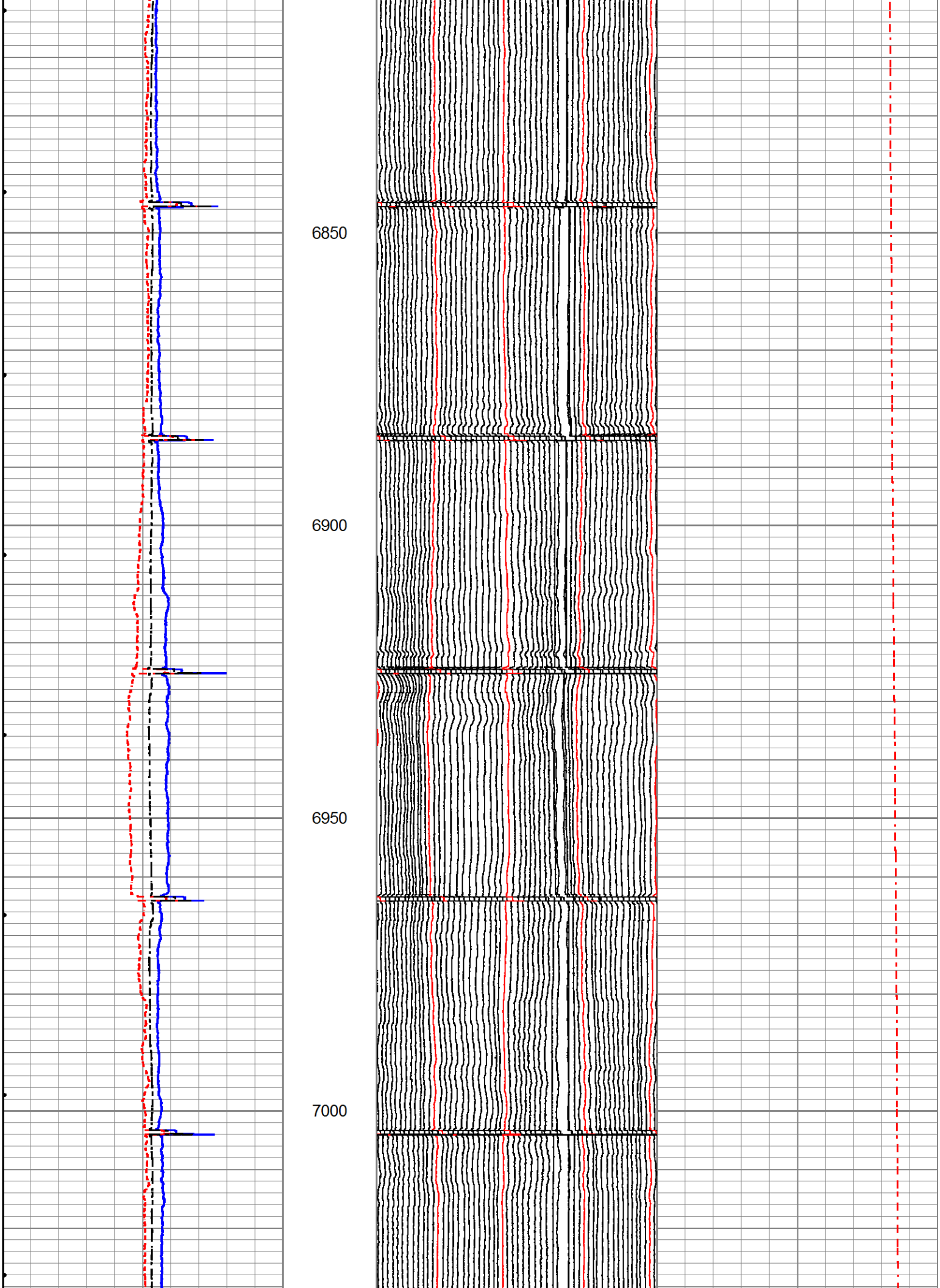
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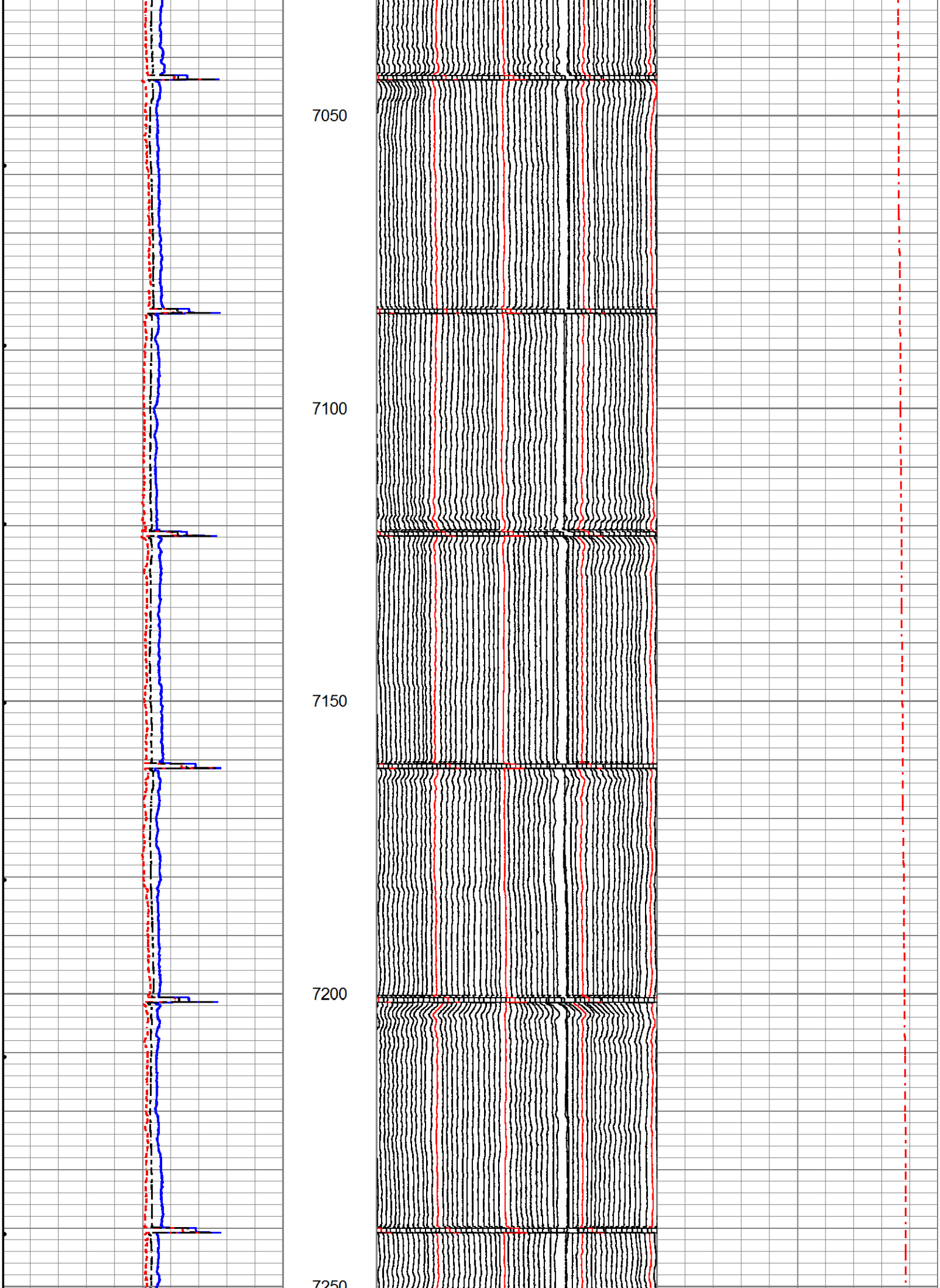
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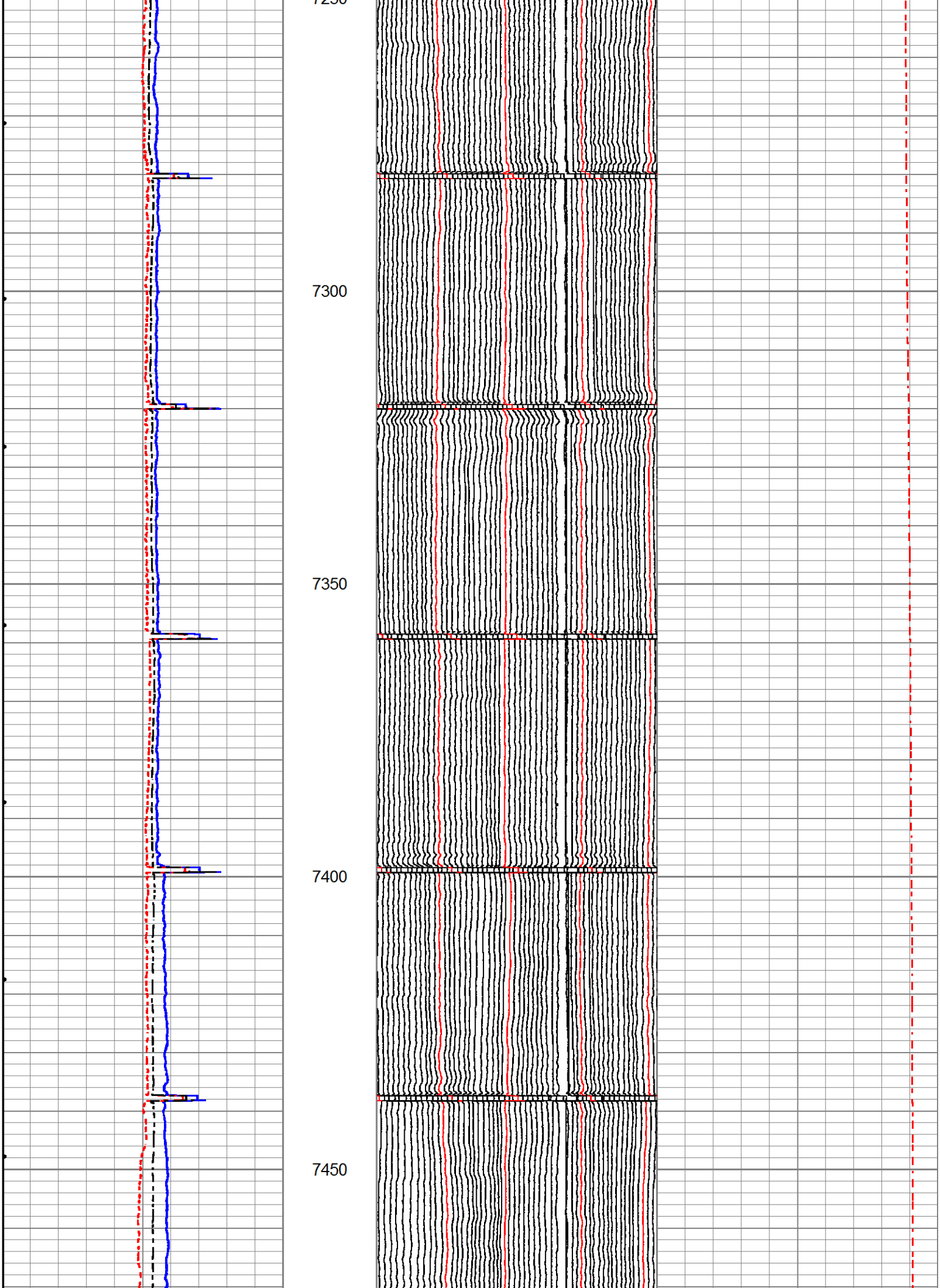
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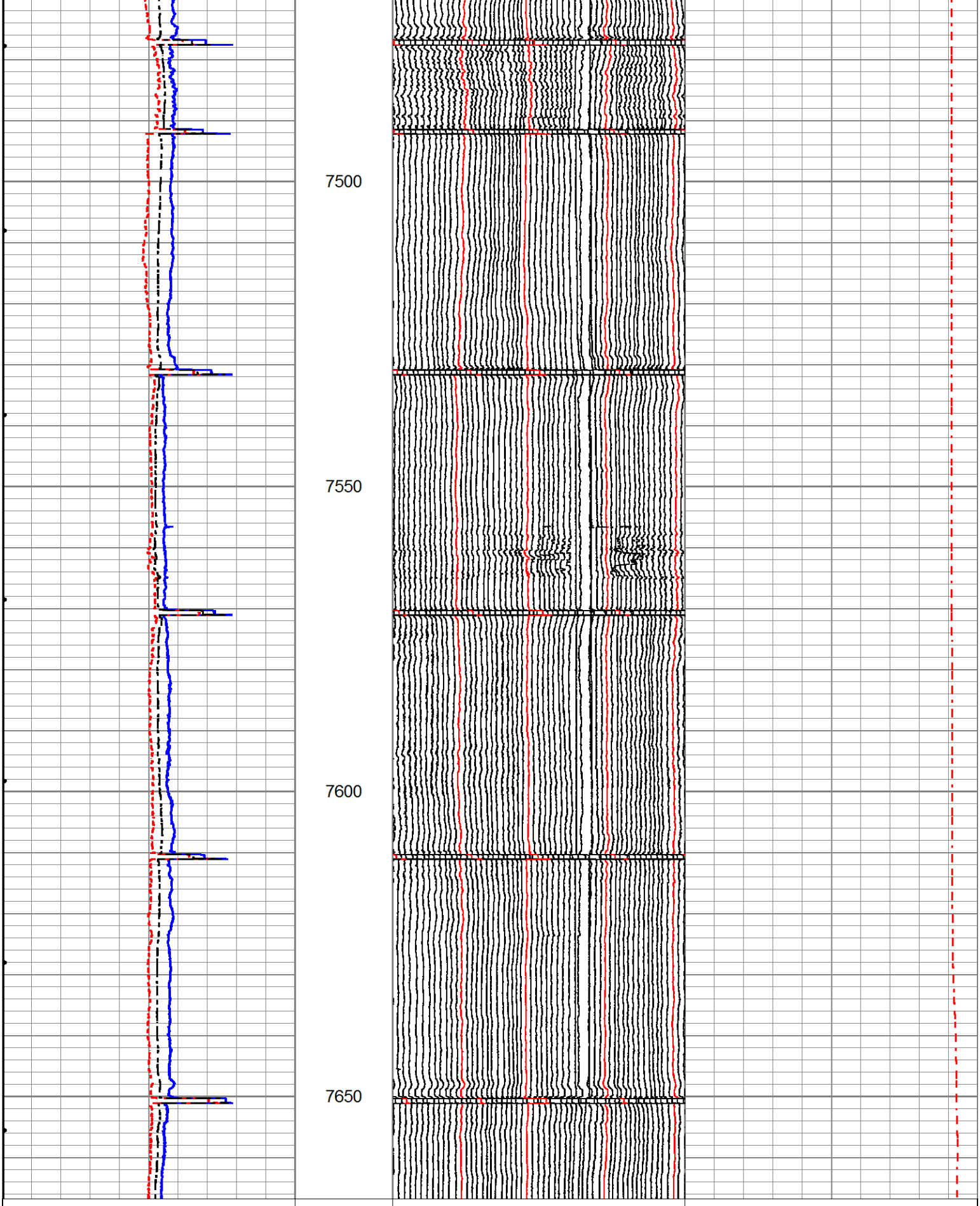

7.681	Max ID (in)	9.681
7.681	Min ID (in)	9.681
7.681	IDAV (in)	9.681

56 RADII .05" INC.

70 WTEMP (degF) 170

Calibration Report

Database File porter25r.db
Dataset Pathname AlisoCanyon/Porter25R/run1/pass9
Dataset Creation Fri Apr 29 11:29:32 2016

GOWell 56 Arm Calibration Report

Serial Number: 11148
Tool Model: 56
Performed: Thu Apr 28 08:40:54 2016

Ref ID:	7.00	8.00	9.00	9.25	9.63	Offset	in	
Arm1	7.08	8.03	9.04	9.28	9.63	0.00	in	
Arm2	6.96	7.91	8.88	9.11	9.45	0.00	in	
Arm3	7.06	8.02	9.02	9.25	9.61	0.00	in	
Arm4	7.02	8.00	9.00	9.22	9.62	0.00	in	
Arm5	7.12	8.08	9.08	9.31	9.68	0.00	in	
Arm6	7.12	8.10	9.11	9.34	9.72	0.00	in	
Arm7	6.94	7.93	8.93	9.17	9.53	0.00	in	
Arm8	7.02	8.03	9.03	9.27	9.64	0.00	in	
Arm9	7.05	8.03	9.02	9.26	9.63	0.00	in	
Arm10	7.05	8.07	9.07	9.31	9.68	0.00	in	
Arm11	7.04	8.02	9.00	9.25	9.62	0.00	in	
Arm12	7.07	8.07	9.06	9.31	9.68	0.00	in	
Arm13	6.99	7.99	8.97	9.21	9.59	0.00	in	
Arm14	7.07	8.09	9.07	9.31	9.69	0.00	in	
Arm15	7.01	8.01	8.98	9.22	9.60	0.00	in	
Arm16	6.98	8.00	8.97	9.22	9.60	0.00	in	
Arm17	6.96	7.97	8.93	9.17	9.54	0.00	in	
Arm18	7.06	8.08	9.05	9.30	9.68	0.00	in	
Arm19	7.02	8.02	8.97	9.21	9.58	0.00	in	
Arm20	7.05	8.07	9.04	9.29	9.66	0.00	in	
Arm21	7.04	8.05	9.00	9.25	9.61	0.00	in	
Arm22	6.97	8.00	8.96	9.22	9.59	0.00	in	
Arm23	7.12	8.13	9.06	9.32	9.67	0.00	in	
Arm24	7.00	8.03	8.99	9.25	9.62	0.00	in	
Arm25	7.02	8.03	8.96	9.21	9.57	0.00	in	
Arm26	6.95	7.97	8.93	9.18	9.55	0.00	in	
Arm27	7.03	8.03	8.96	9.21	9.57	0.00	in	
Arm28	6.98	8.00	8.96	9.21	9.58	0.00	in	
Arm29	7.02	8.02	8.96	9.21	9.57	0.00	in	
Arm30	7.03	8.05	9.01	9.26	9.63	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	7.06	8.06	9.01	9.25	9.61	0.00	in	
Arm32	7.07	8.08	9.05	9.30	9.66	0.00	in	
Arm33	7.04	8.04	8.98	9.22	9.59	0.00	in	
Arm34	7.07	8.07	9.04	9.29	9.66	0.00	in	
Arm35	7.05	8.03	8.99	9.24	9.60	0.00	in	
Arm36	7.17	8.16	9.13	9.38	9.74	0.00	in	
Arm37	7.11	8.09	9.05	9.29	9.64	0.00	in	
Arm38	7.03	8.04	9.03	9.27	9.64	0.00	in	
Arm39	7.00	7.98	8.96	9.20	9.57	0.00	in	
Arm40	6.92	7.93	8.92	9.16	9.54	0.00	in	
Arm41	7.02	7.98	8.95	9.18	9.54	0.00	in	
Arm42	7.31	6.28	5.27	3.52	1.68	0.00	in	*
Arm43	7.08	8.03	9.02	9.26	9.62	0.00	in	
Arm44	7.02	8.01	9.00	9.23	9.59	0.00	in	
Arm45	7.03	7.97	8.95	9.18	9.53	0.00	in	

Arm46	6.97	7.98	8.96	9.19	9.55	0.00	in
Arm47	7.02	7.96	8.94	9.18	9.54	0.00	in
Arm48	6.97	7.99	8.97	9.19	9.57	0.00	in
Arm49	7.05	8.01	9.02	9.26	9.62	0.00	in
Arm50	7.04	8.02	9.05	9.28	9.66	0.00	in
Arm51	7.03	7.96	9.00	9.23	9.45	0.00	in
Arm52	7.08	8.05	9.07	9.31	9.68	0.00	in
Arm53	7.07	8.02	9.02	9.25	9.61	0.00	in
Arm54	7.08	8.06	9.09	9.33	9.69	0.00	in
Arm55	7.07	8.03	9.03	9.27	9.62	0.00	in
Arm56	7.01	8.01	9.03	9.28	9.65	0.00	in
Arm57							in
Arm58							in
Arm59							in
Arm60							in

* Bad

GOWell 56 Arm Verification Report

	Pre Verification	Post Verification	Casing Check	
Performed:	Thu Apr 28 08:42:56 2016	Fri Apr 29 11:29:25 2016	Thu Apr 28 14:13:22 2016	
Ref ID:	0.00	8.00	0.00	in
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Avg.	0.00	7.99	0.00	in
Dia1	7.99	7.99	0.00	in
Dia2	7.99	7.99	0.00	in
Dia3	7.99	8.00	0.00	in
Dia4	8.00	8.00	0.00	in
Dia5	7.99	8.00	0.00	in
Dia6	7.99	8.00	0.00	in
Dia7	7.99	8.00	0.00	in
Dia8	7.98	8.00	0.00	in
Dia9	7.99	8.00	0.00	in
Dia10	7.99	8.00	0.00	in
Dia11	7.99	8.00	0.00	in
Dia12	7.99	7.99	0.00	in
Dia13	7.99	8.00	0.00	in
Dia14	7.99	7.99	0.00	in
Dia15	7.99	8.00	0.00	in
Dia16	7.98	7.98	0.00	in
Dia17	7.99	7.99	0.00	in
Dia18	7.97	7.98	0.00	in
Dia19	7.99	8.00	0.00	in
Dia20	7.97	7.97	0.00	in
Dia21	7.98	7.99	0.00	in
Dia22	7.98	7.99	0.00	in
Dia23	7.99	8.00	0.00	in
Dia24	8.00	8.00	0.00	in
Dia25	7.98	7.98	0.00	in
Dia26	7.99	8.00	0.00	in
Dia27	7.96	7.99	0.00	in
Dia28	7.98	7.98	0.00	in

BAKER HUGHES

Repeat Pass

3982 - 4190

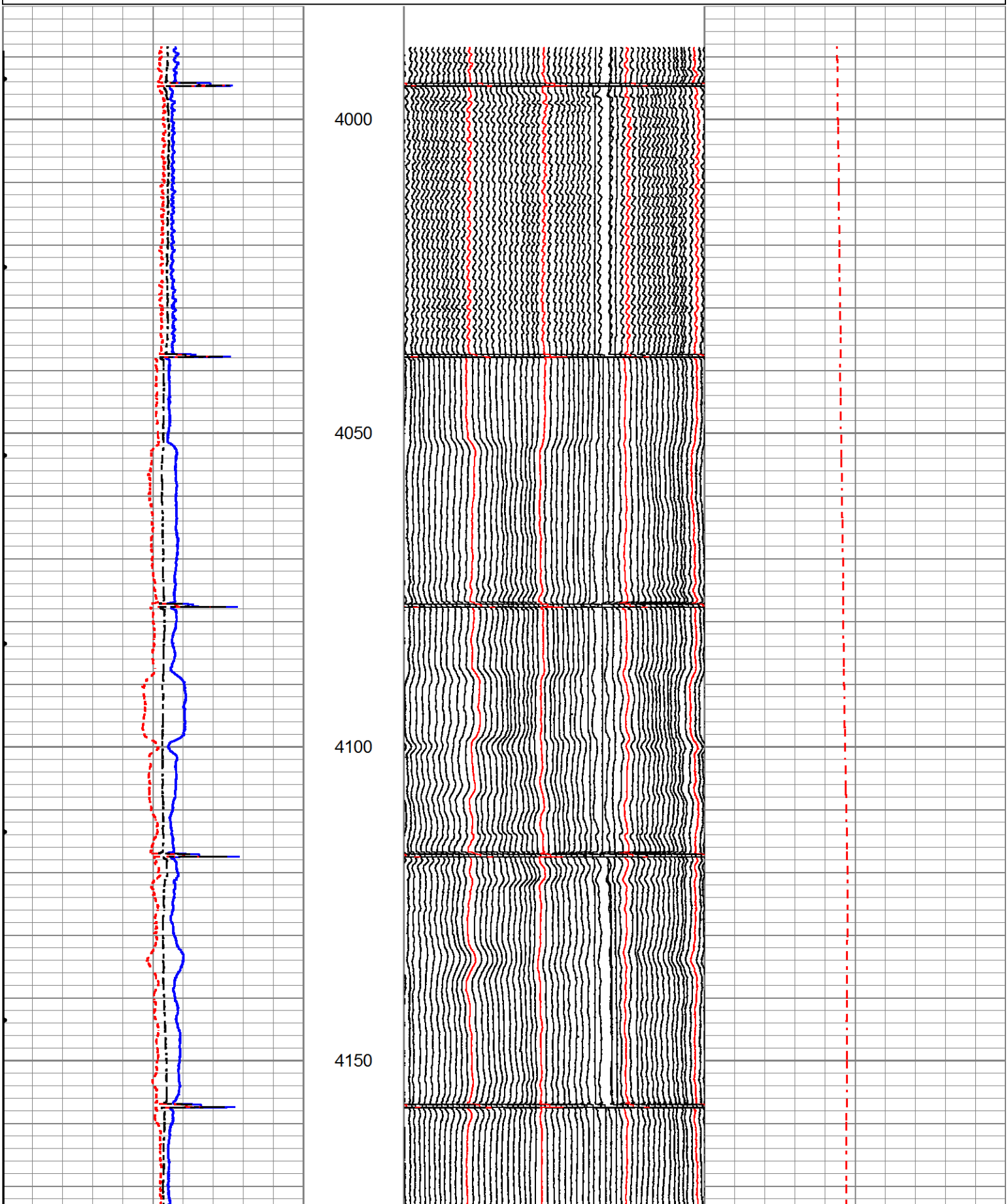
Database File	porter25r.db
Dataset Pathname	AlisoCanyon/Porter25R/run1/pass6

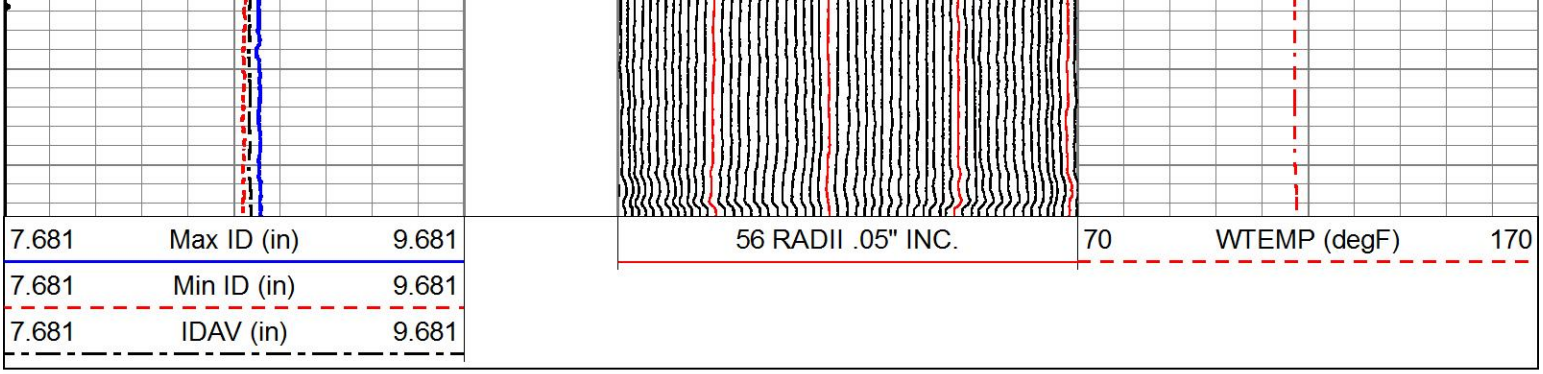
Presentation Format	56_958
Dataset Creation	Thu Apr 28 14:19:57 2016
Charted by	Depth in Feet scaled 1:240

7.681	Max ID (in)	9.681
7.681	Min ID (in)	9.681
7.681	IDAV (in)	9.681

56 RADII .05" INC.

70 WTEMP (degF) 170



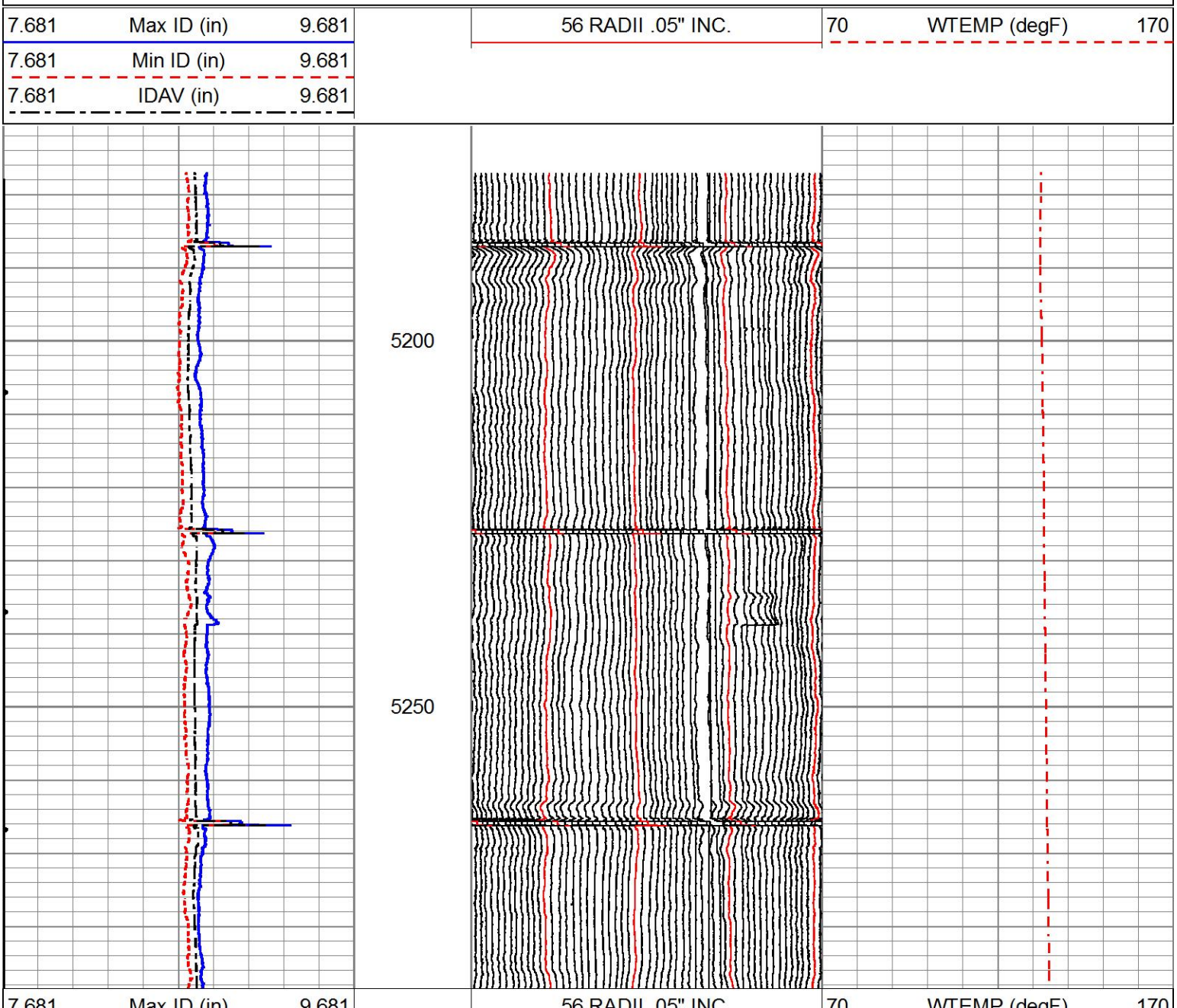


BAKER HUGHES

Repeat Pass

5190-5280

Database File	porter25r.db
Dataset Pathname	AlisoCanyon/Porter25R/run1/pass5
Presentation Format	56_958
Dataset Creation	Thu Apr 28 14:07:40 2016
Charted by	Depth in Feet scaled 1:240

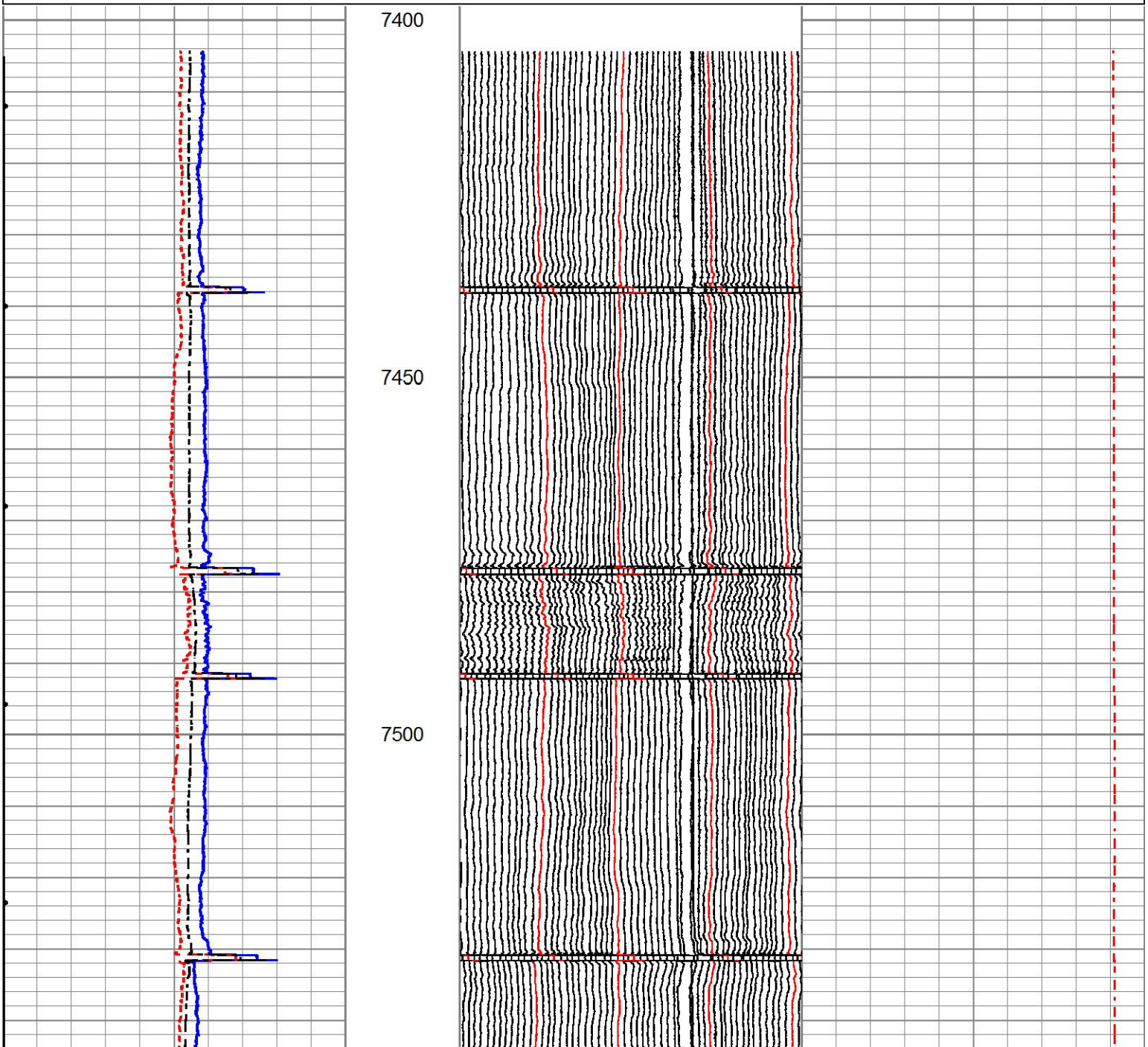


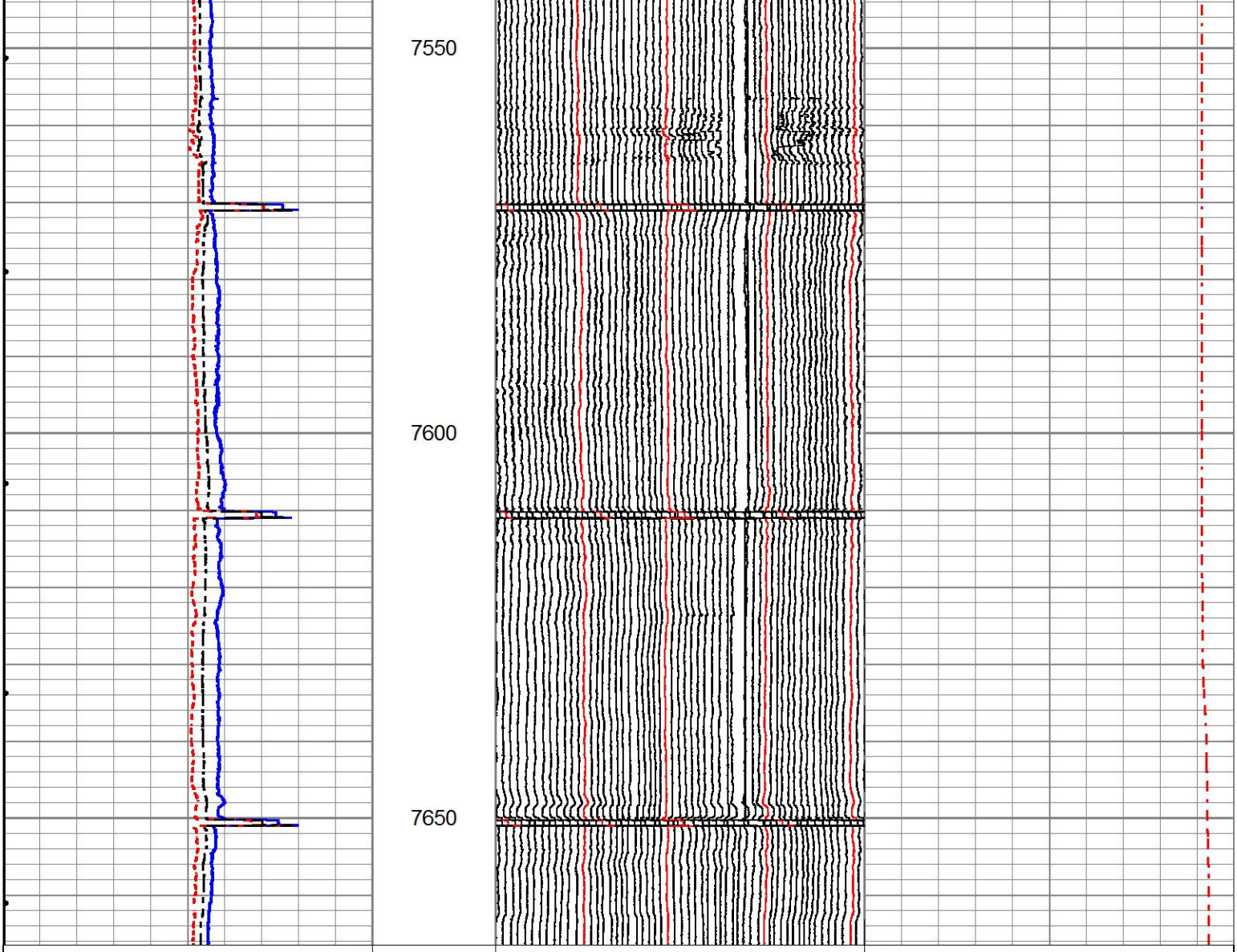
7.681	Max ID (in)	9.681
7.681	Min ID (in)	9.681
7.681	IDAV (in)	9.681

REPEAT PASS

Database File	porter25r.db
Dataset Pathname	AlisoCanyon/Porter25R/run1/pass3
Presentation Format	56_958
Dataset Creation	Thu Apr 28 09:29:07 2016
Charted by	Depth in Feet scaled 1:240

7.681	Max ID (in)	9.681	56 RADII .05" INC.	70	WTEMP (degF) 170
7.681	Min ID (in)	9.681			
7.681	IDAV (in)	9.681			

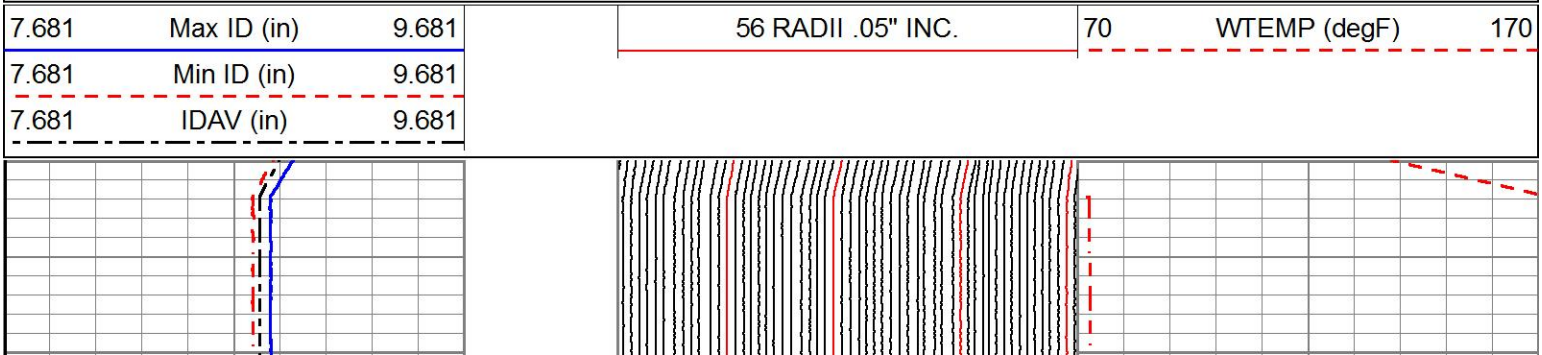


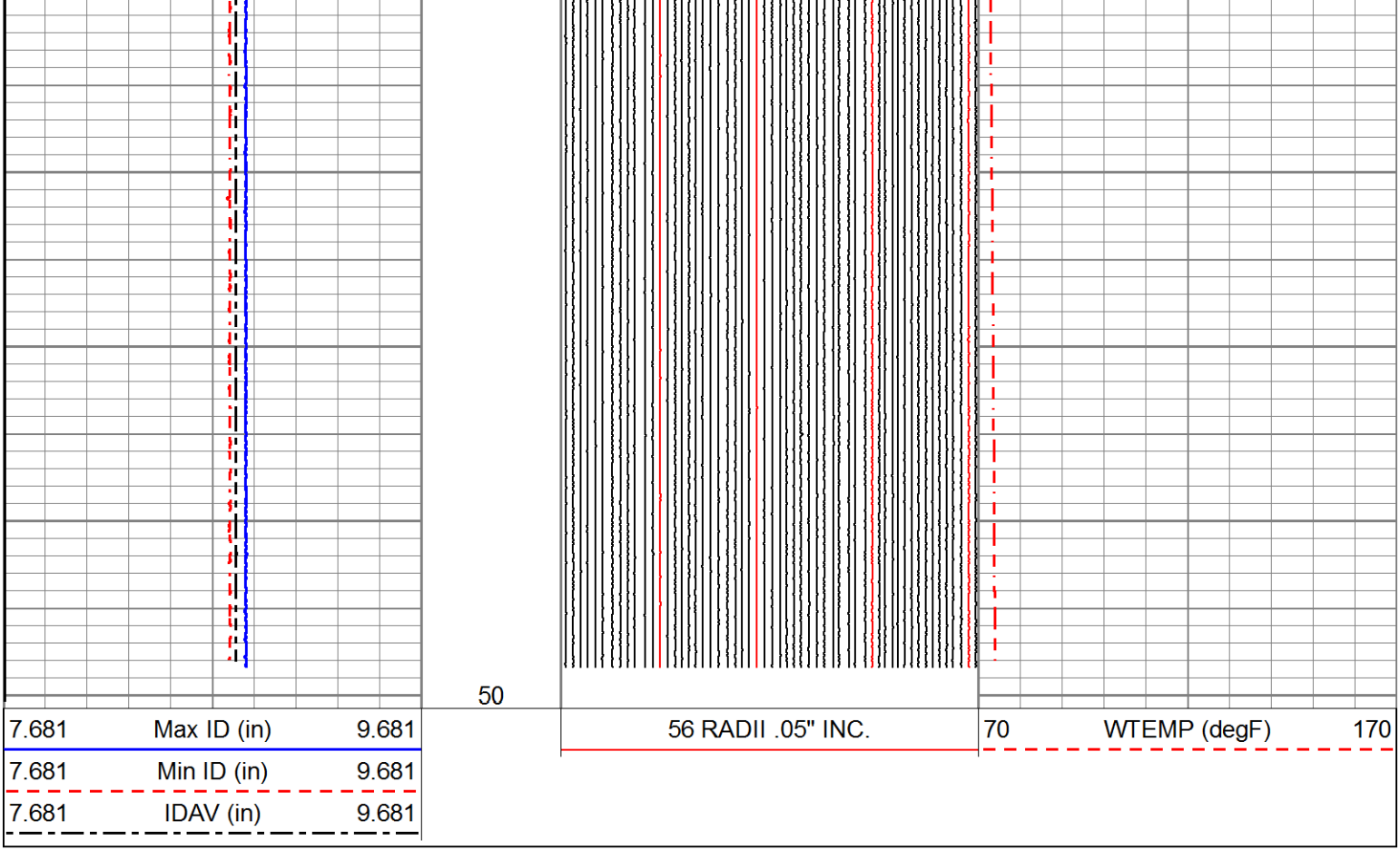


BAKER HUGHES

CASING STUB CHECK

Database File	porter25r.db
Dataset Pathname	AlisoCanyon/Porter25R/run1/pass7
Presentation Format	56_958
Dataset Creation	Thu Apr 28 14:48:38 2016
Charted by	Time scaled 360/hour





Calibration Report

Database File	porter25r.db
Dataset Pathname	AlisoCanyon/Porter25R/run1/pass7
Dataset Creation	Thu Apr 28 14:48:38 2016

GOWell 56 Arm Calibration Report

Serial Number:	11148
Tool Model:	56
Performed:	Thu Apr 28 08:40:54 2016

Ref ID:	7.00	8.00	9.00	9.25	9.63	Offset	in
Arm1	7.08	8.03	9.04	9.28	9.63	0.00	in
Arm2	6.96	7.91	8.88	9.11	9.45	0.00	in
Arm3	7.06	8.02	9.02	9.25	9.61	0.00	in
Arm4	7.02	8.00	9.00	9.22	9.62	0.00	in
Arm5	7.12	8.08	9.08	9.31	9.68	0.00	in
Arm6	7.12	8.10	9.11	9.34	9.72	0.00	in
Arm7	6.94	7.93	8.93	9.17	9.53	0.00	in
Arm8	7.02	8.03	9.03	9.27	9.64	0.00	in
Arm9	7.05	8.03	9.02	9.26	9.63	0.00	in
Arm10	7.05	8.07	9.07	9.31	9.68	0.00	in
Arm11	7.04	8.02	9.00	9.25	9.62	0.00	in
Arm12	7.07	8.07	9.06	9.31	9.68	0.00	in
Arm13	6.99	7.99	8.97	9.21	9.59	0.00	in
Arm14	7.07	8.09	9.07	9.31	9.69	0.00	in
Arm15	7.01	8.01	8.98	9.22	9.60	0.00	in
Arm16	6.98	8.00	8.97	9.22	9.60	0.00	in
Arm17	6.96	7.97	8.93	9.17	9.54	0.00	in
Arm18	7.06	8.08	9.05	9.30	9.68	0.00	in
Arm19	7.02	8.02	8.97	9.21	9.58	0.00	in
Arm20	7.05	8.07	9.04	9.29	9.66	0.00	in
Arm21	7.04	8.05	9.00	9.25	9.61	0.00	in
Arm22	6.97	8.00	8.96	9.22	9.59	0.00	in
Arm23	7.12	8.13	9.06	9.32	9.67	0.00	in

Arm24	7.00	8.03	8.99	9.25	9.62	0.00	in
Arm25	7.02	8.03	8.96	9.21	9.57	0.00	in
Arm26	6.95	7.97	8.93	9.18	9.55	0.00	in
Arm27	7.03	8.03	8.96	9.21	9.57	0.00	in
Arm28	6.98	8.00	8.96	9.21	9.58	0.00	in
Arm29	7.02	8.02	8.96	9.21	9.57	0.00	in
Arm30	7.03	8.05	9.01	9.26	9.63	0.00	in

* Bad

GOWell 56 Arm Calibration Report

Serial Number:
Tool Model:
Performed:

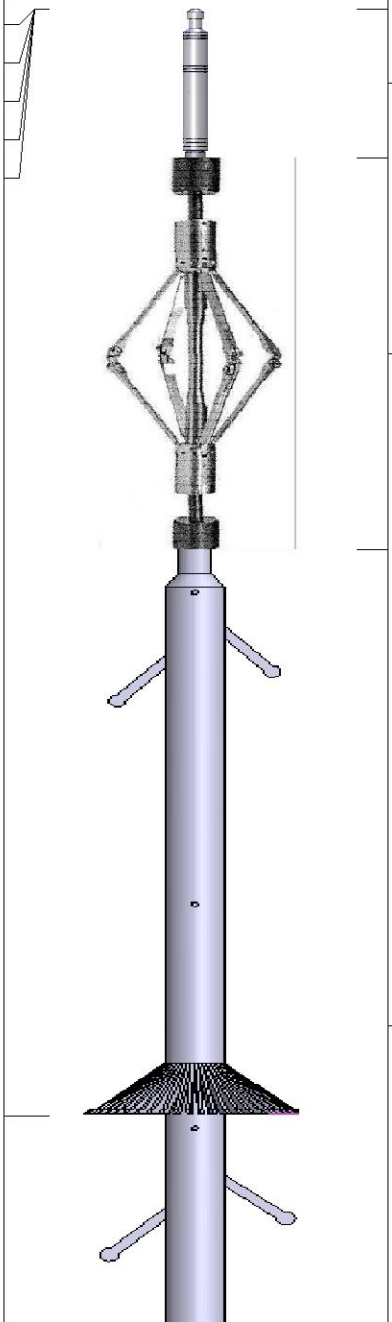
Ref ID:	7.00	8.00	9.00	9.25	9.63	Offset	in	
Arm31	7.06	8.06	9.01	9.25	9.61	0.00	in	
Arm32	7.07	8.08	9.05	9.30	9.66	0.00	in	
Arm33	7.04	8.04	8.98	9.22	9.59	0.00	in	
Arm34	7.07	8.07	9.04	9.29	9.66	0.00	in	
Arm35	7.05	8.03	8.99	9.24	9.60	0.00	in	
Arm36	7.17	8.16	9.13	9.38	9.74	0.00	in	
Arm37	7.11	8.09	9.05	9.29	9.64	0.00	in	
Arm38	7.03	8.04	9.03	9.27	9.64	0.00	in	
Arm39	7.00	7.98	8.96	9.20	9.57	0.00	in	
Arm40	6.92	7.93	8.92	9.16	9.54	0.00	in	
Arm41	7.02	7.98	8.95	9.18	9.54	0.00	in	
Arm42	7.31	6.28	5.27	3.52	1.68	0.00	in	*
Arm43	7.08	8.03	9.02	9.26	9.62	0.00	in	
Arm44	7.02	8.01	9.00	9.23	9.59	0.00	in	
Arm45	7.03	7.97	8.95	9.18	9.53	0.00	in	
Arm46	6.97	7.98	8.96	9.19	9.55	0.00	in	
Arm47	7.02	7.96	8.94	9.18	9.54	0.00	in	
Arm48	6.97	7.99	8.97	9.19	9.57	0.00	in	
Arm49	7.05	8.01	9.02	9.26	9.62	0.00	in	
Arm50	7.04	8.02	9.05	9.28	9.66	0.00	in	
Arm51	7.03	7.96	9.00	9.23	9.45	0.00	in	
Arm52	7.08	8.05	9.07	9.31	9.68	0.00	in	
Arm53	7.07	8.02	9.02	9.25	9.61	0.00	in	
Arm54	7.08	8.06	9.09	9.33	9.69	0.00	in	
Arm55	7.07	8.03	9.03	9.27	9.62	0.00	in	
Arm56	7.01	8.01	9.03	9.28	9.65	0.00	in	
Arm57							in	
Arm58							in	
Arm59							in	
Arm60							in	

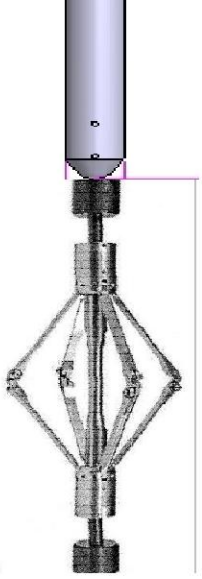
* Bad

GOWell 56 Arm Verification Report

	Pre Verification	Post Verification	Casing Check	
Performed:	Thu Apr 28 08:42:56 2016	Fri Apr 22 15:09:42 2016	Thu Apr 28 14:13:22 2016	
Ref ID:	8.00	0.00	8.68	in
Min.	7.96	0.00	8.69	in
Max.	8.00	0.00	8.86	in
Avg.	7.99	0.00	8.76	in
Dia1	7.99	8.98	8.84	in
Dia2	7.99	8.98	8.85	in
Dia3	7.99	8.98	8.86	in
Dia4	8.00	8.99	8.85	in
Dia5	7.99	8.98	8.83	in
Dia6	7.99	8.98	8.82	in
Dia7	7.99	8.99	8.81	in

Dia8	7.98	8.99	8.79	in
Dia9	7.99	8.98	8.77	in
Dia10	7.99	8.98	8.73	in
Dia11	7.99	8.99	8.71	in
Dia12	7.99	8.97	8.71	in
Dia13	7.99	8.99	8.69	in
Dia14	7.99	8.99	8.69	in
Dia15	7.99	8.99	8.69	in
Dia16	7.98	8.98	8.70	in
Dia17	7.99	8.98	8.69	in
Dia18	7.97	8.95	8.76	in
Dia19	7.99	8.98	8.70	in
Dia20	7.97	8.97	8.73	in
Dia21	7.98	8.97	8.73	in
Dia22	7.98	8.98	8.72	in
Dia23	7.99	8.98	8.72	in
Dia24	8.00	8.98	8.74	in
Dia25	7.98	8.99	8.78	in
Dia26	7.99	8.99	8.80	in
Dia27	7.96	8.99	8.82	in
Dia28	7.98	8.98	8.83	in

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
BPRES	13.03		CHD-STNDRD Standard Cable Head	1.03	1.45	10.00
PPRES	13.03					
TOTBBL	13.03					
PRATE	13.03					
LTENUSR	13.03		CENT-Hotwell275 2 3/4" Hotwell Centralizer for 40 and 56 ARM	2.71	2.75	30.00
			XIPEMAC-56 (11148) Hotwell 56 Arm caliper	6.58	3.50	100.00
Meas	5.38					

Aux1	2.71		CENT-Hotwell275 2 3/4" Hotwell Centralizer for 40 and 56 ARM	2.71	2.75	30.00
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	porter25r.db: AlisoCanyon/Porter25R/run1/pass9
Total length:	13.03 ft
Total weight:	170.00 lb
O.D.:	3.50 in

BAKER HUGHES

Company	Southern California Gas Company
Well	Porter 25R
Field	Aliso Canyon
County	Los Angeles
State	CA