

**1 : 500**



**EW/R Electromagnetic Wave Resistivity**  
**DGR Dual Gamma Ray**

WELL INFORMATION					
MWD Run Number	100	200	300	400	500
Date run completed	17-Aug-05	25-Aug-05	03-Sep-05	06-Sep-05	10-Sep-05
Rig Bit Number	2	3	4	5	6
Bit Size (mm)	445	311	311	311	216
Tool Nominal OD (mm)	241	203	203	203	203
Log Start Depth (MD, m)	208.00	1,006.00	2,497.00	2,741.00	2,956.00
Log End Depth (MD, m)	1,006.00	2,497.00	2,741.00	2,956.00	3,310.00
Drill or Wipe	Drilling	Drilling	Drilling	Drilling	Drilling
Drill/Wipe Start Date and Time	15-Aug-05 16:53	20-Aug-05 06:19	31-Aug-05 11:46	04-Sep-05 08:40	08-Sep-05 13:38
Drill/Wipe End Date and Time	16-Aug-05 20:20	23-Aug-05 05:10	02-Sep-05 18:44	05-Sep-05 18:43	09-Sep-05 19:06
Min Inc (deg) @ Depth (MD, m)	0.00 @ 885.23	0.12 @ 1,007.58	0.87 @ 2,557.34	10.88 @ 2,728.71	25.94 @ 3,267.81
Max Inc (deg) @ Depth (MD, m)	0.19 @ 224.64	2.13 @ 2,413.64	9.30 @ 2,700.45	28.88 @ 2,930.70	30.08 @ 2,981.05
Bit TFA(in2) / Bit Type	0.92 / Hughes MX-1	1.34 / SDBS FM3653Z3	1.23 / Smith GFS10BVOPS	1.17 / Hughes MXCOPH	0.91 / SDBS FM3743
Flow Rate (gpm)	1000	920	890	889	674
Max AV (mpm) / CV (mpm) @ MWD	34.8 / 253.8	79.8 / 121.8	80.0 / 164.0	81.0 / 194.0	199.0 / 213.0
Fluid Type	Seawater/Hi Vis	KCl/PHPA/Glycol	KCl/PHPA/Glycol	KCl/PHPA/Glycol	KCl/Polymer
Density (sg) / Viscosity (spqt)	1.05 / N/A	1.21 / 55	1.20 / 62	1.20 / 65	1.13 / 58
Filtrate CL (ppm)	N/A	41,000	30,000	38,000	39,000
pH / Fluid Loss (mptm)	N/A / N/A	8.4 / 4	9.3 / 4.4	8.8 / 4.2	8.2 / 5.0
PV (cp) / YP (Ihf2)	1 / 1	15 / 31	19 / 37	19 / 45	16 / 36
% Solids / % Sand	N/A / N/A	10 / 0.5	10 / 0.5	10 / 0.5	7 / 0.5
% Oil / Oil:Water Ratio	N/A / N/A	0 / N/A	0 / N/A	0 / N/A	0 / N/A
Rm @ Measured Temp (degC)	N/A @ N/A	0.80 @ 23.0	0.12 @ 22.0	0.12 @ 21.0	0.12 @ 22.0
Rmf @ Measured Temp (degC)	N/A @ N/A	0.60 @ 23.0	0.11 @ 22.0	0.11 @ 21.0	0.09 @ 21.0
Rmc @ Measured Temp (degC)	N/A @ N/A	1.00 @ 23.0	0.22 @ 20.0	0.24 @ 20.0	0.13 @ 22.0
Max Tool Temp (degC) / Source	24.0 / TM	58.0 / EWR-P4	80.0 / EWR-P4	85.0 / EWR-P4	96.0 / HCIM
Rm @ Max Tool Temp (degC)	N/A @ 24.0	0.45 @ 58.0	0.05 @ 80.0	0.05 @ 85.0	0.04 @ 96.0
Lead MWD Engineer	A. Oraekwuotu	A. Oraekwuotu	A. Oraekwuotu	A. Oraekwuotu	A. Rule
Customer Representative	W. Westman	W. Westman	R. King	R. King	R. King

## SENSOR INFORMATION

## Downhole Processor Information

Tool Type	TM	HCIM	HCIM	HCIM	HCIM
Software Version	4.30	68.18	68.18	68.18	68.18
Sub Serial Number	209351	198840	91820	91820	197931
Insert Serial Number	10505184	160772	93281	93281	161821
Logging String Serial Number	N/A	DM90081129H1RGV8	DM90081130H1RGV8	DM90081130H1RGV8	NZ200H1RGV6
Date and Time Initialized	14-Aug-05 21:55	19-Aug-05 15:49	31-Aug-05 02:48	03-Sep-05 19:32	08-Sep-05 02:48
Date and Time Read	17-Aug-05 08:46	25-Aug-05 14:38	03-Sep-05 03:46	06-Sep-05 07:41	10-Sep-05 05:12

## Directional Sensor Information

Tool Type	DM	DM	DM	DM	PM
Distance From Bit (m)	13.88	20.89	24.18	18.39	20.44
Software Version	3.15	3.15	3.15	3.15	
Sub Serial Number	209351	10562337	10562337	10562337	194447
Sonde Serial Number	149865	149865	185534	185534	143272
Sensor ID Number	N/A	N/A	N/A	N/A	563
Survey String Serial Number	N/A	DM90081131K8	DM90081132K8	DM90081132K8	DM90082560M6
Toolface Offset (deg)	0	296.0	115.0	20.7	116.0

## Gamma Ray Sensor Information

Tool Type	GM	DGR	DGR	DGR	DGR
Distance From Bit (m)	12.00	13.42	16.84	11.05	13.06
Recorded Sample Period (sec)	8	12	12	12	12
Software Version	1.22	N/A	N/A	N/A	N/A
Sub Serial Number	209351	210655	10505993	10505993	64636
Insert/Sonde Serial Number	83563	172496	172498	172498	87301

## Resistivity Sensor Information

Tool Type		EWR-P4	EWR-P4	EWR-P4	EWR-P4
Distance From Bit (m)		15.79	19.20	13.41	15.42
Recorded Sample Period (sec)		14	14	14	14
Software Version		1.38	1.38	1.38	1.38
Sub Serial Number		110998	105241	105241	191904
Receiver Insert Serial Number		151534	62355	62355	77531
Transmitter Insert Serial Number		100354	79563	79563	106181
Receiver Orientation		Down	Down	Down	Down

## WELL INFORMATION

MWD Run Number	600				
Date run completed	11-Sep-05				
Rig Bit Number	7				
Bit Size (mm)	216				
Tool Nominal OD (mm)	203				
Log Start Depth (MD, m)	3,310.0				
Log End Depth (MD, m)	3,414.0				
Drill or Wipe	Drilling				
Drill/Wipe Start Date and Time	10-Sep-05 16:37				
Drill/Wipe End Date and Time	11-Sep-05 14:04				
Min Inc (deg) @ Depth (MD, m)	25.94 @ 3,364.81				
Max Inc (deg) @ Depth (MD, m)	26.06 @ 3,307.72				
Bit TFA(in2) / Bit Type	0.45 / Hughes MX20D				
Flow Rate (gpm)	664				
Max AV (mpm) / CV (mpm) @ MWD	186.0 / 197.0				
Fluid Type	KCl/Polymer				
Density (sg) / Viscosity (spqt)	1.12 / 54				
Filtrate CL (ppm)	34,000				
pH / Fluid Loss (mptm)	8.4 / 4.6				
PV (cp) / YP (lhf2)	17 / 34				
% Solids / % Sand	7 / 0.5				
% Oil / Oil:Water Ratio	0 / N/A				
Rm @ Measured Temp (degC)	0.11 @ 21.0				
Rmf @ Measured Temp (degC)	0.09 @ 21.0				
Rmc @ Measured Temp (degC)	0.13 @ 22.0				
Max Tool Temp (degC) / Source	108 / HCIM				

Max Tool Temp (degC) / Source	106 / HCM				
Rm @ Max Tool Temp (degC)	0.04 @ 108				
Lead MWD Engineer	A. Rule				
Customer Representative	R. King				

## SENSOR INFORMATION

### Downhole Processor Information

Tool Type	HCM				
Software Version	68.18				
Sub Serial Number	197931				
Insert Serial Number	161821				
Logging String Serial Number	NZ200H1RGV6				
Date and Time Initialized	10-Sep-05 05:59				
Date and Time Read	12-Sep-05 00:11				

### Directional Sensor Information

Tool Type	PM				
Distance From Bit (m)	11.62				
Software Version	N/A				
Sub Serial Number	194447				
Sonde Serial Number	143272				
Sensor ID Number	563				
Survey String Serial Number	90082560M6				
Toolface Offset (deg)	116.00				

### Gamma Ray Sensor Information

Tool Type	DGR				
Distance From Bit (m)	4.24				
Recorded Sample Period (sec)	12				
Software Version	N/A				
Sub Serial Number	64636				
Insert/Sonde Serial Number	87301				

### Resistivity Sensor Information

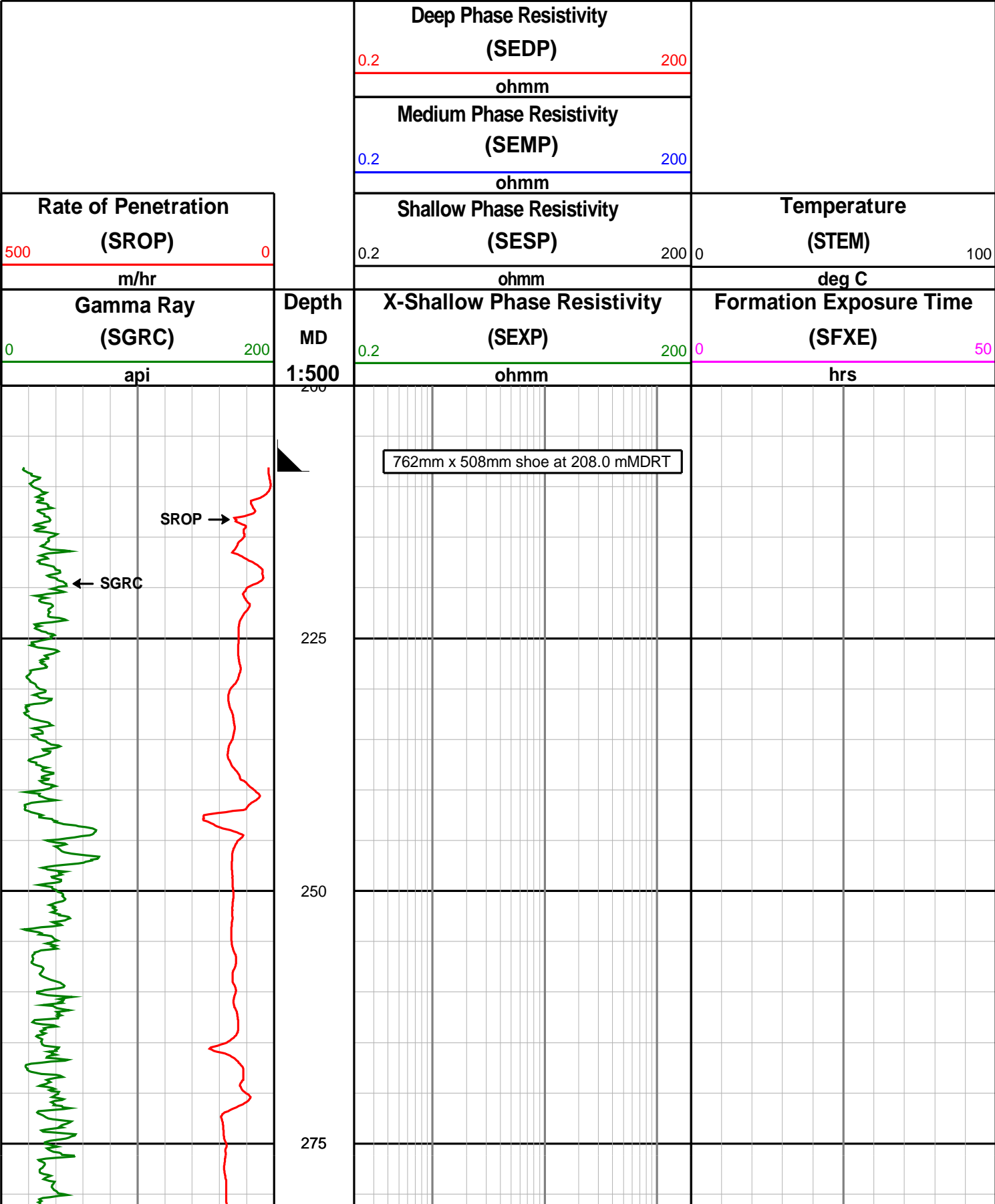
Tool Type	EWR-P4				
Distance From Bit (m)	6.60				
Recorded Sample Period (sec)	14				
Software Version	1.38				
Sub Serial Number	191904				
Receiver Insert Serial Number	77531				
Transmitter Insert Serial Number	106181				
Receiver Orientation	Down				

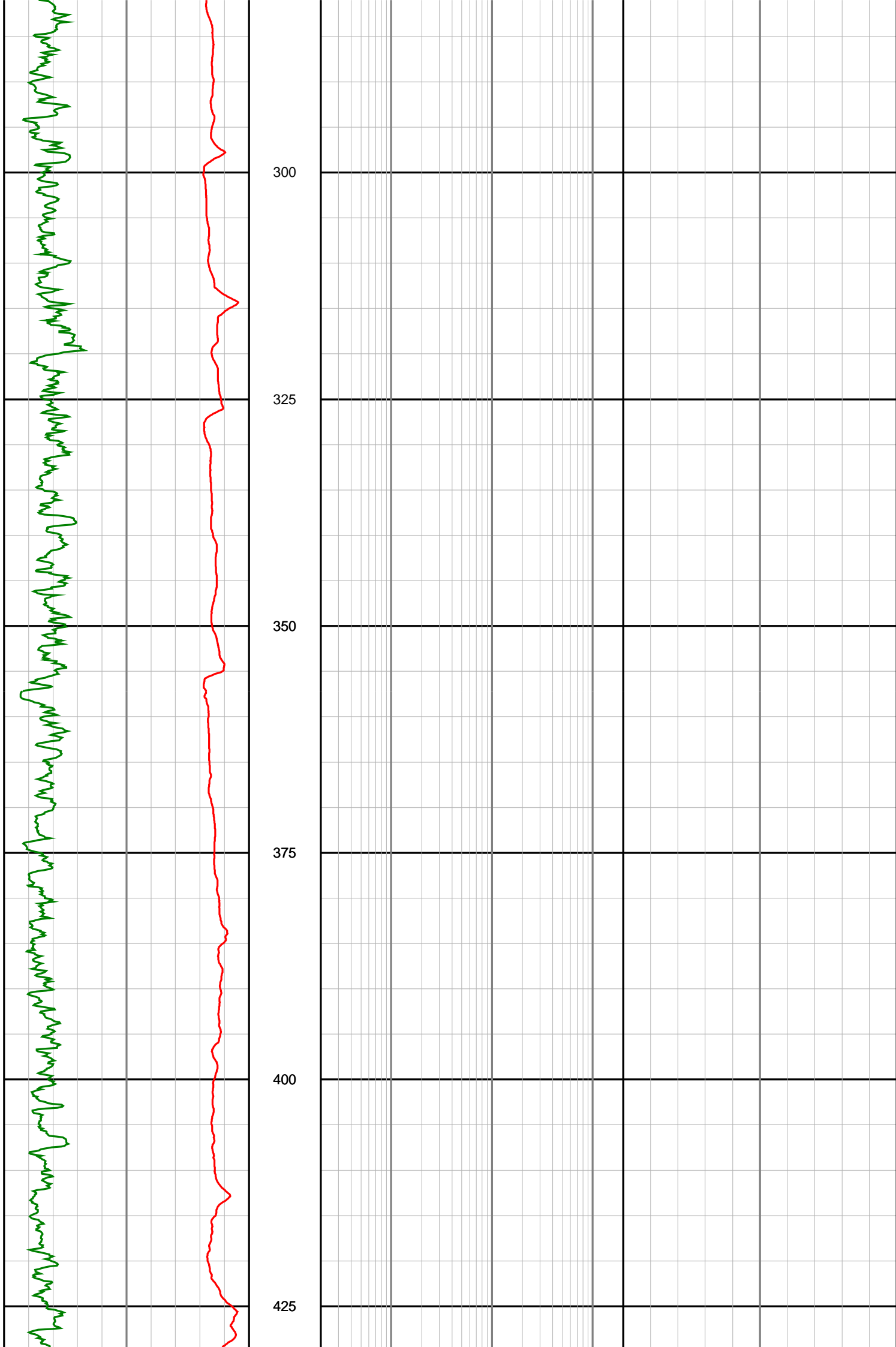
## REMARKS

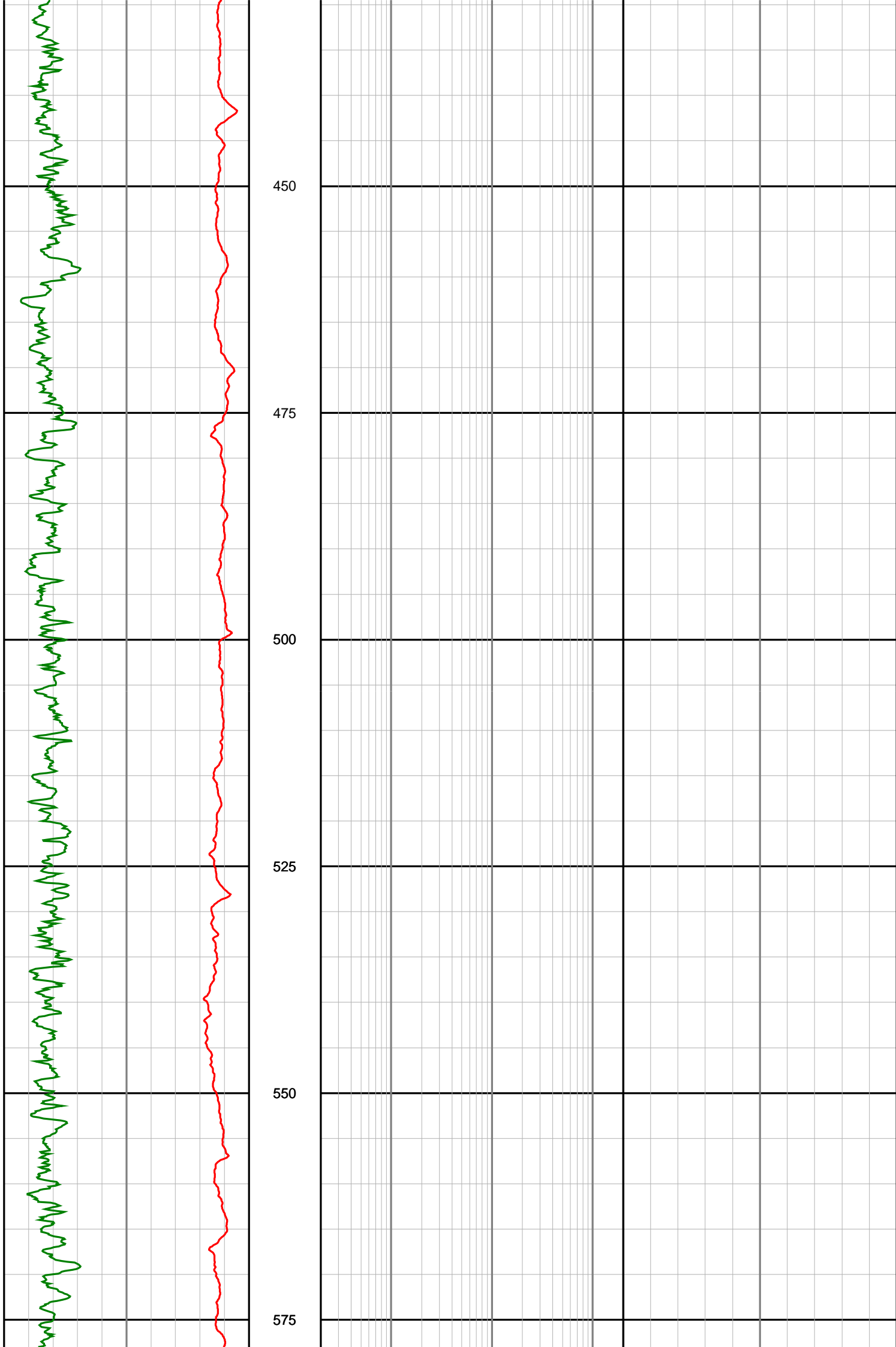
1. All depths are bit depths and referenced to the drillers pipe tally
2. AV/CV is calculated at the MWD collar using the Power Law for water based muds.
3. Curve mnemonics are:  
 SGRC - Smoothed Gamma Ray Combined, api  
 SEXP - Smoothed Extra Shallow Phase Resistivity, Ohm-m  
 SESP - Smoothed Shallow Phase Resistivity, Ohm-m  
 SEMP - Smoothed Medium Phase Resistivity, Ohm-m  
 SEDP - Smoothed Deep Phase Resistivity, Ohm-m  
 SROP - Smoothed Rate of Penetration, m/hr  
 STEM - Smoothed Phase Resistivity Temperature, deg C  
 SFXE - Smoothed Deep Phase Resistivity Formation Exposure Time, hrs
4. Gap in data from 1277.0 to 1280.0 mMDRT due to depth sensor malfunction.
5. Because of differences in sensor distance, interval 3298.0 to 3310.0 mMDRT was logged after a round trip.

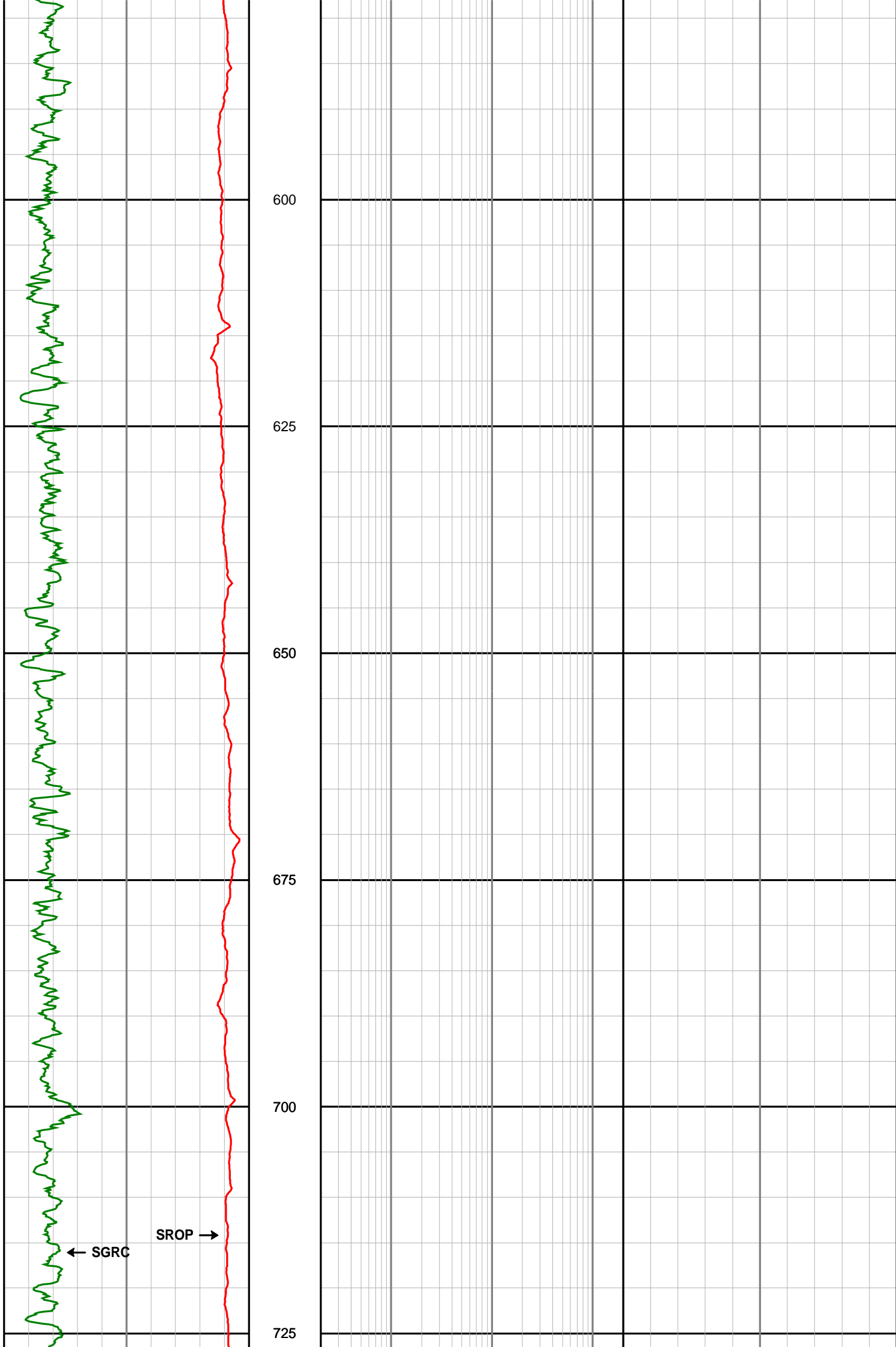
WARRANTY

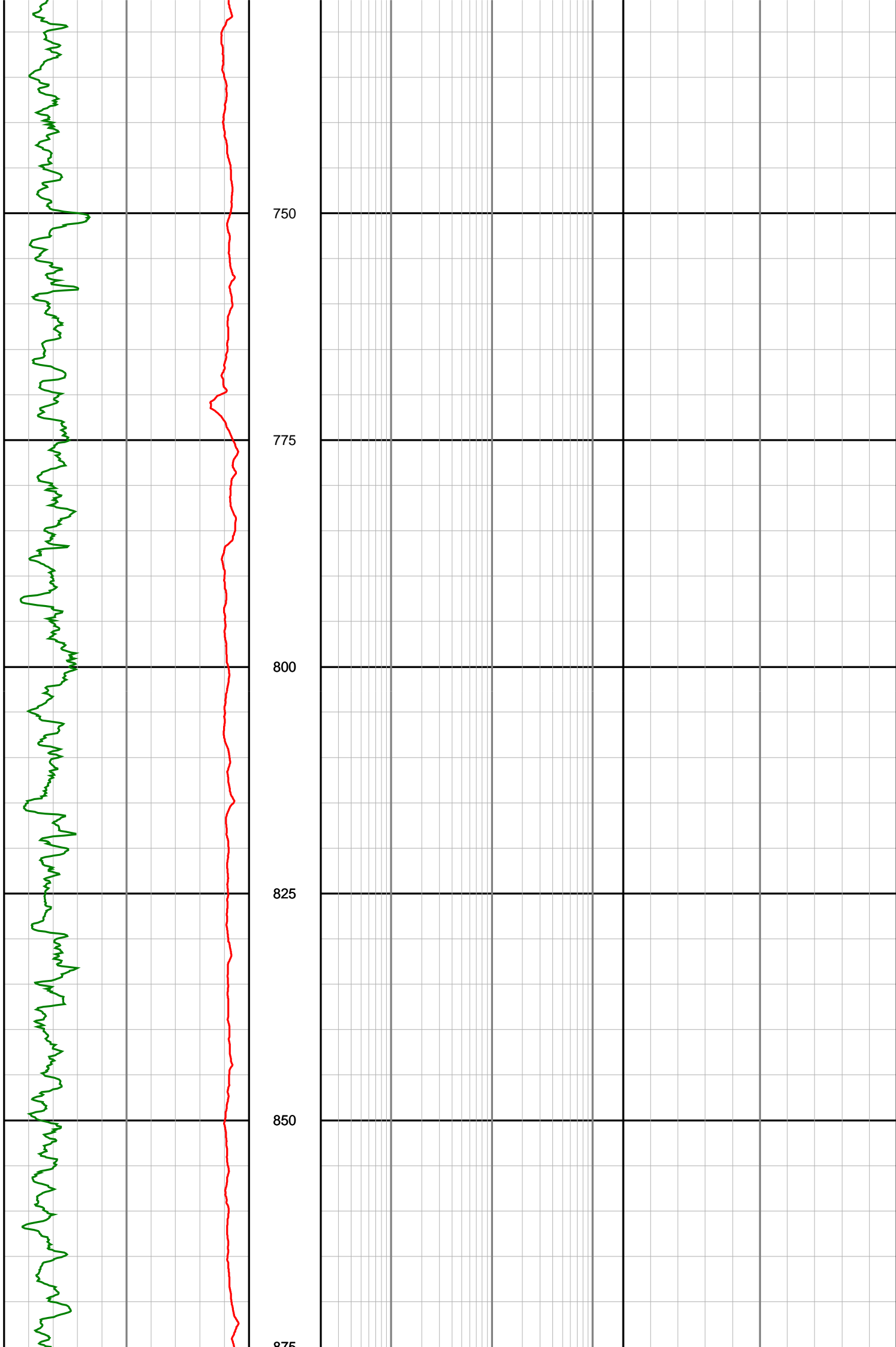
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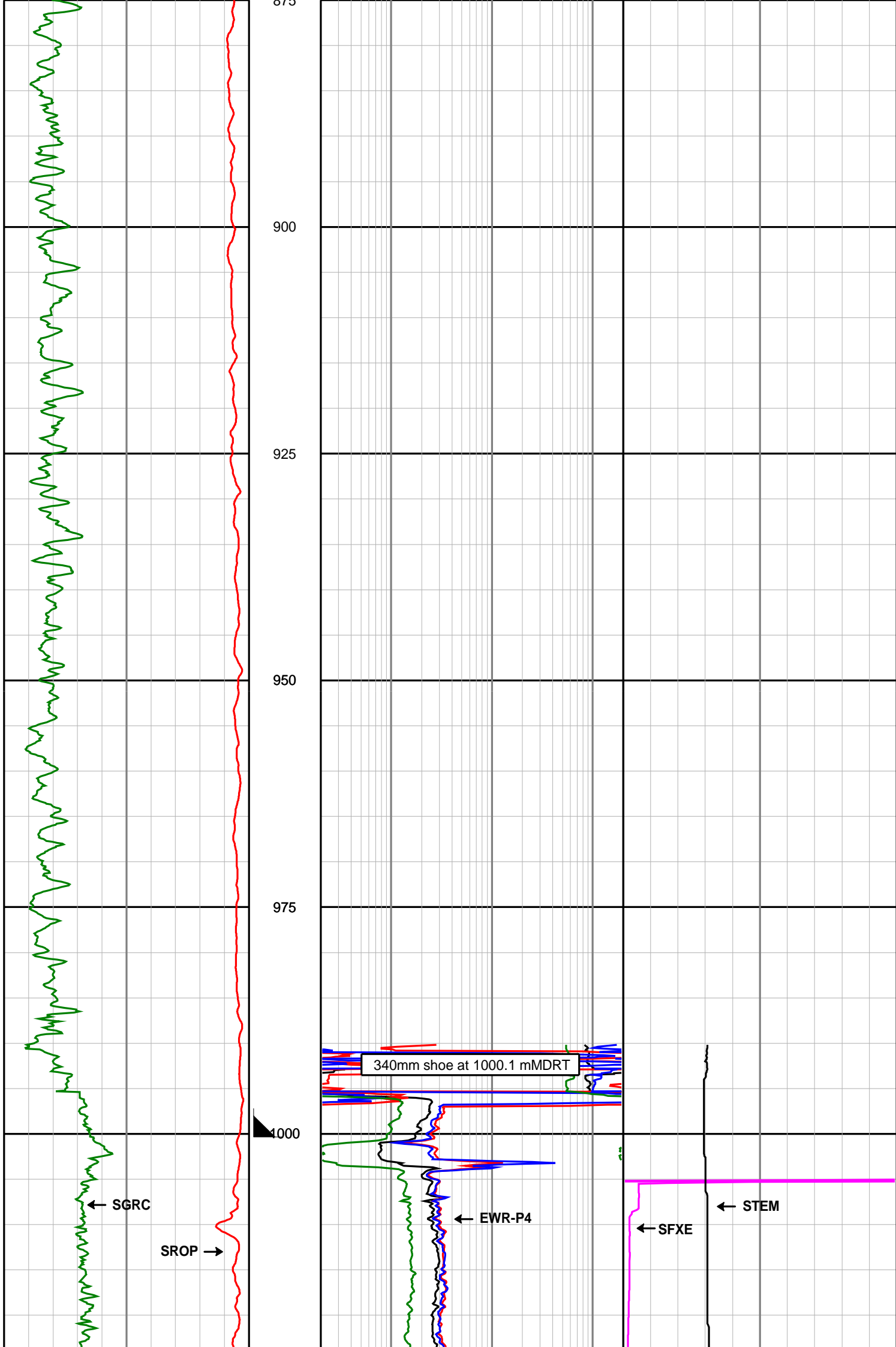


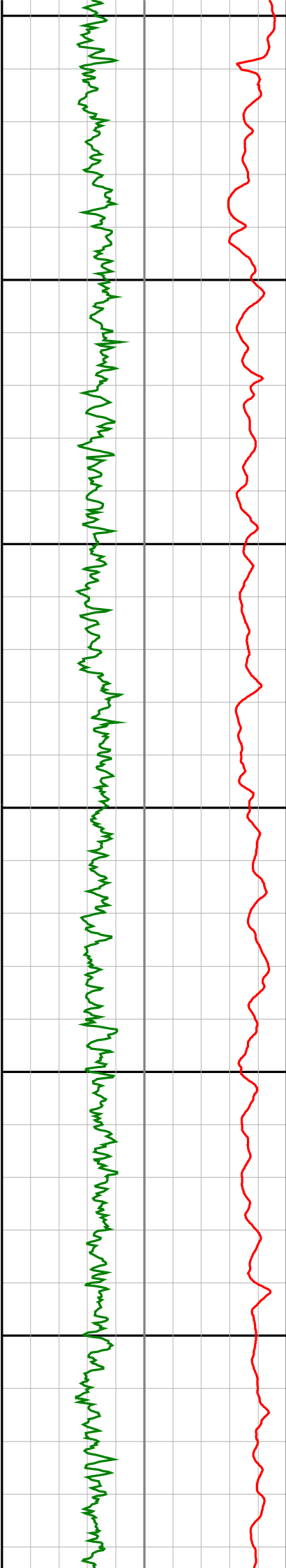












1025

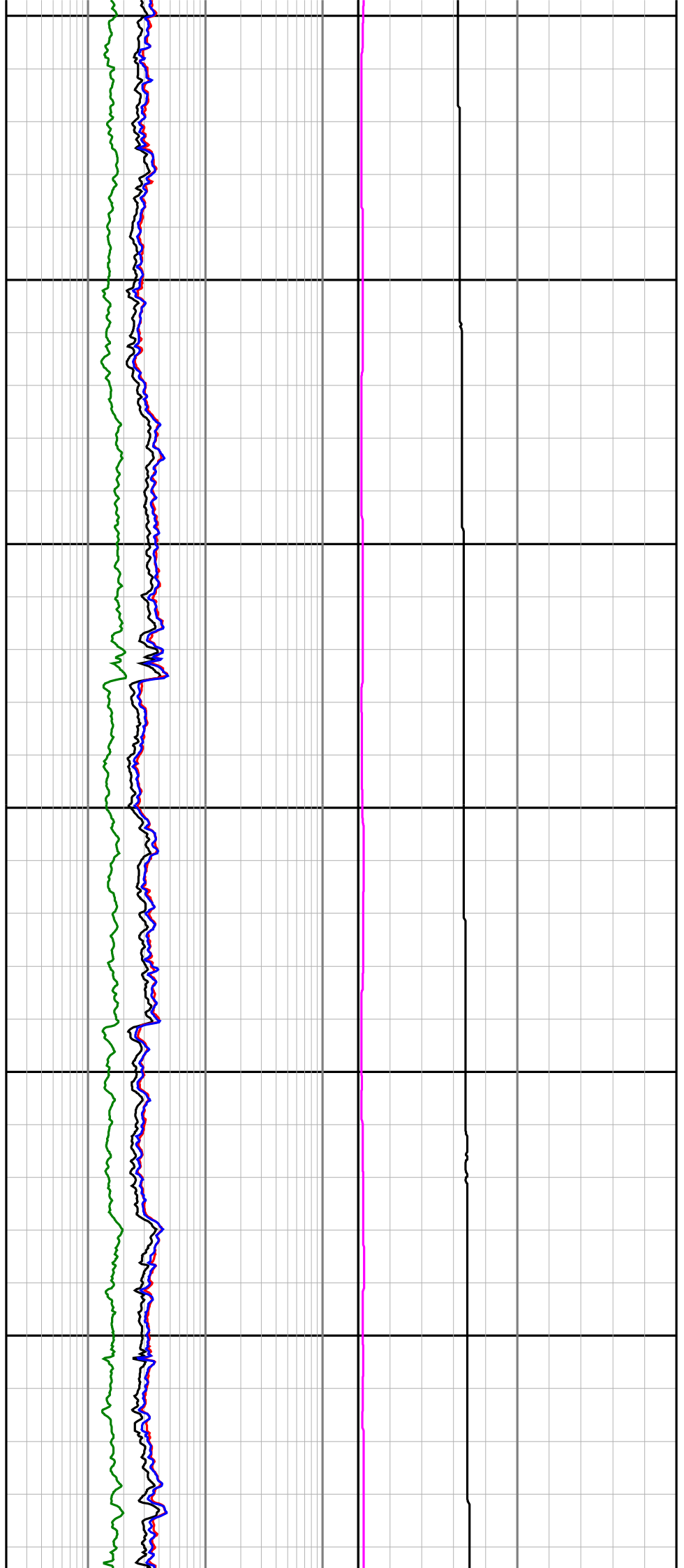
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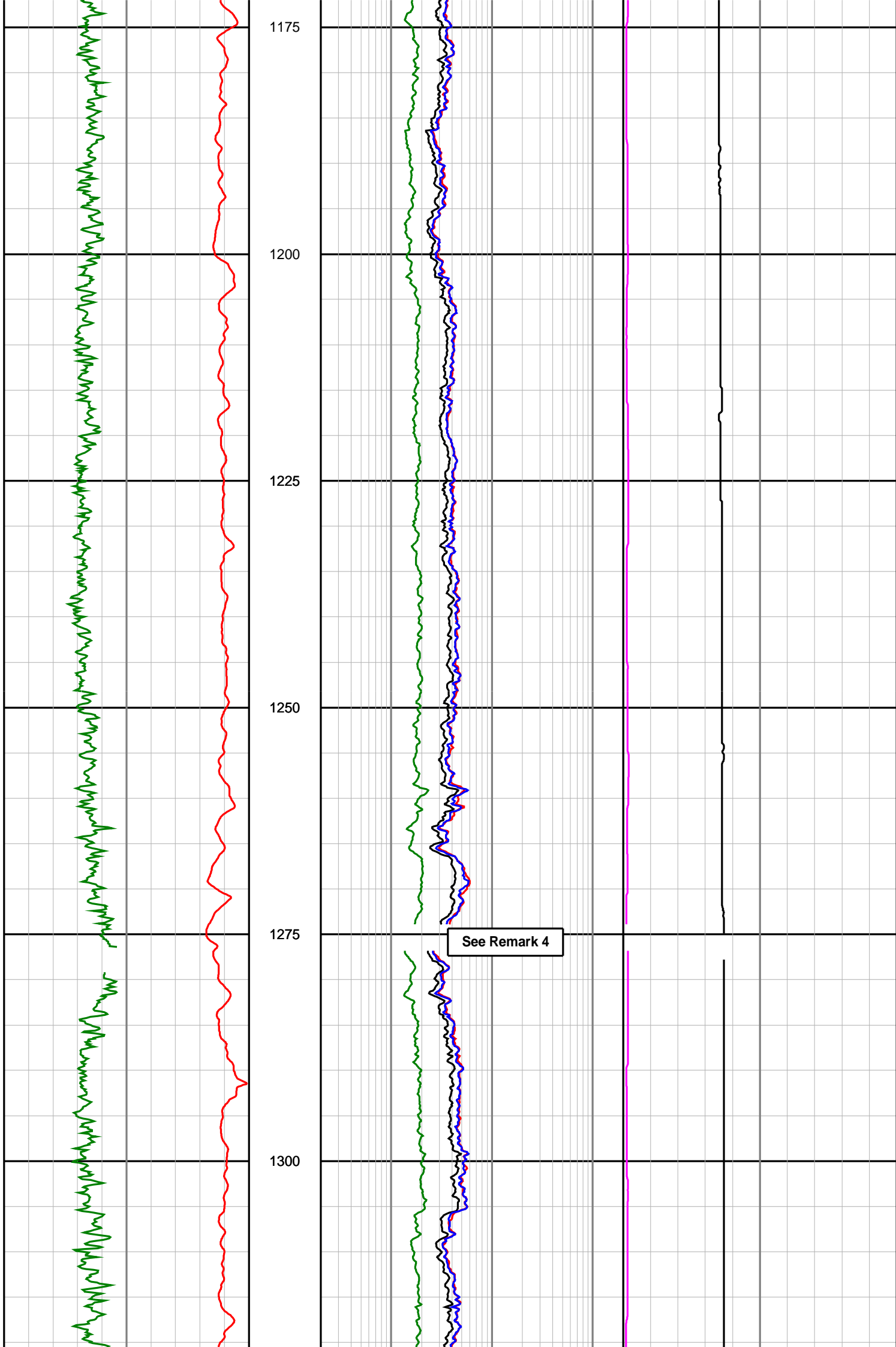
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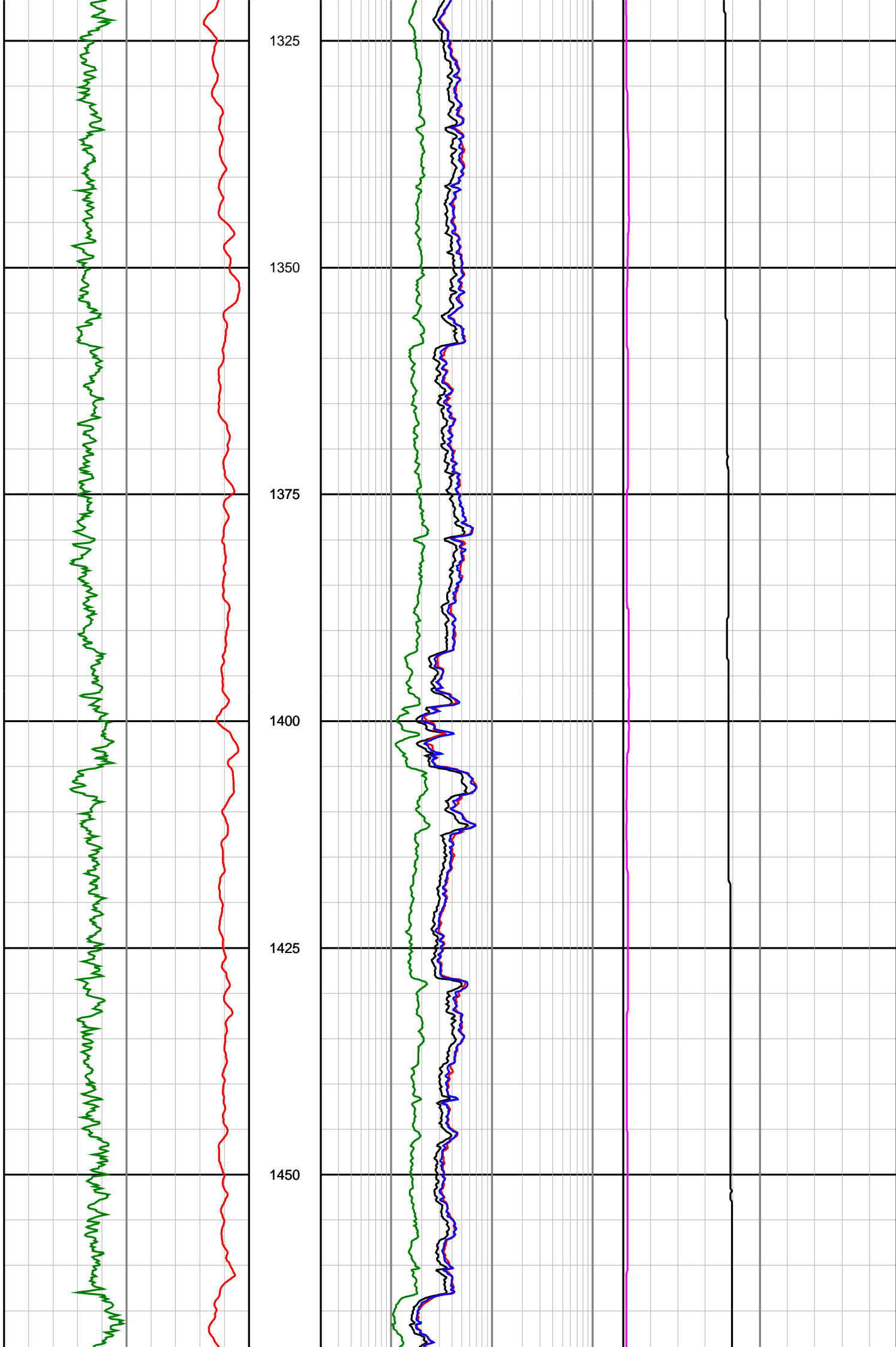
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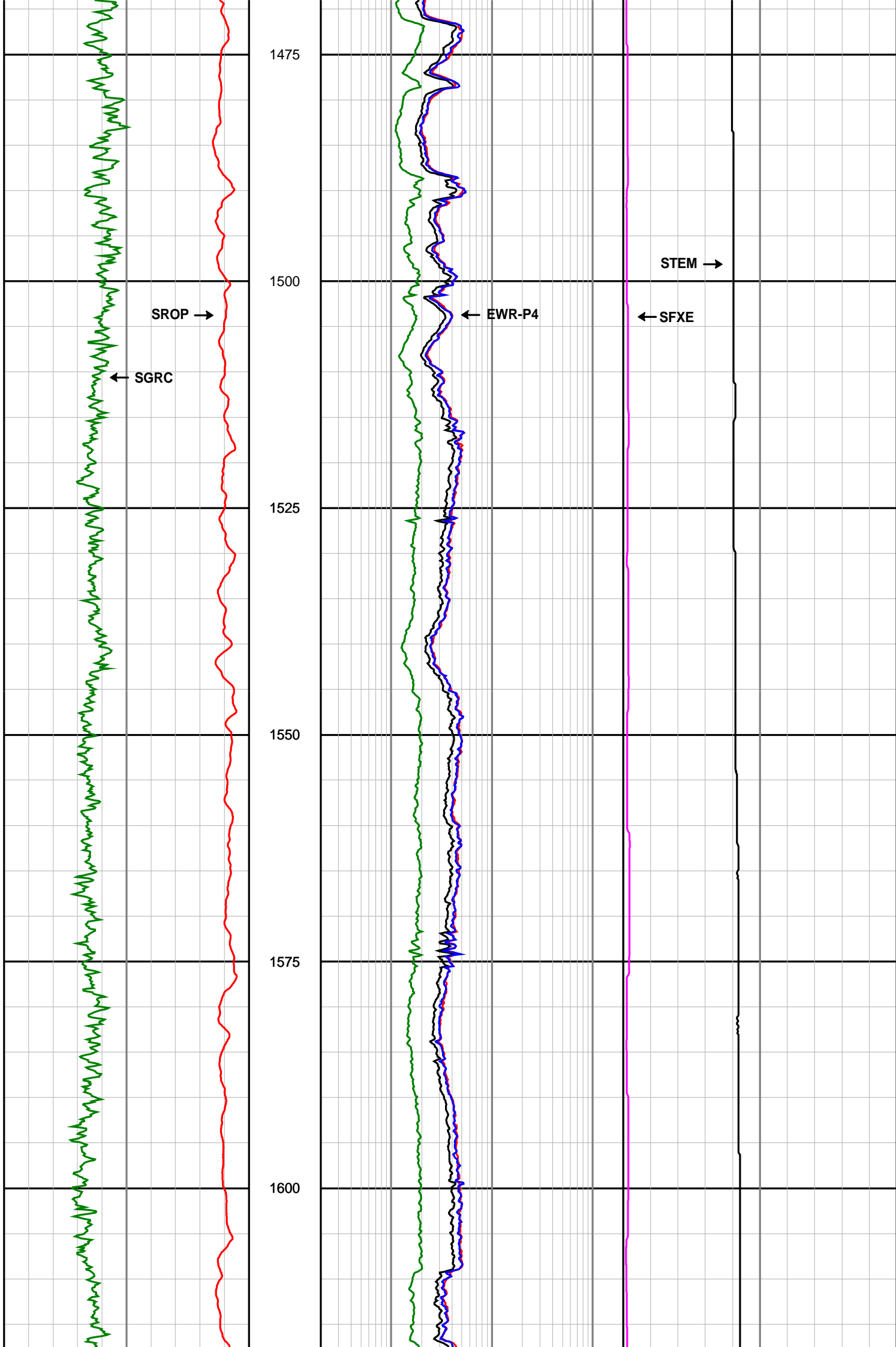
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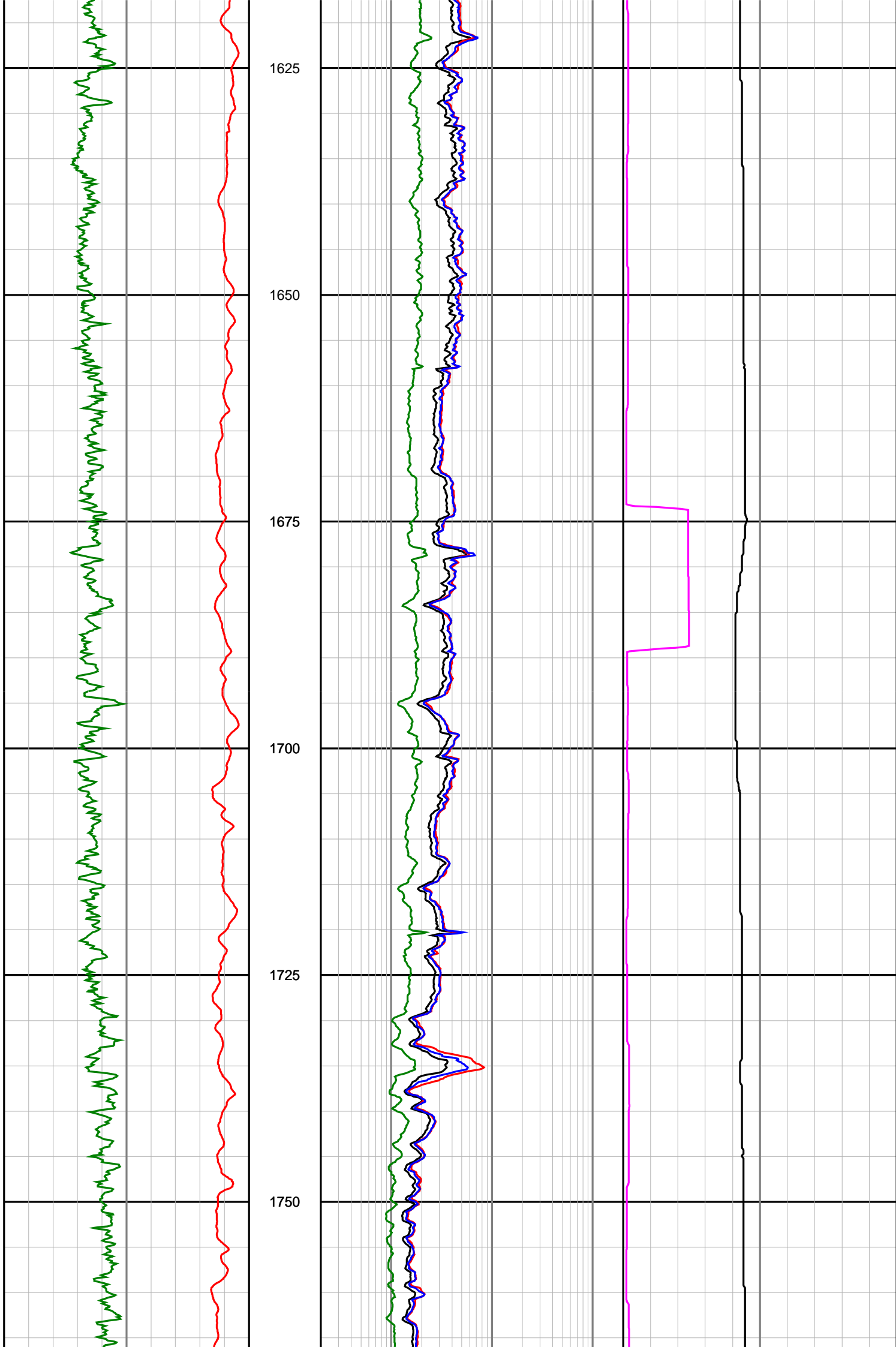
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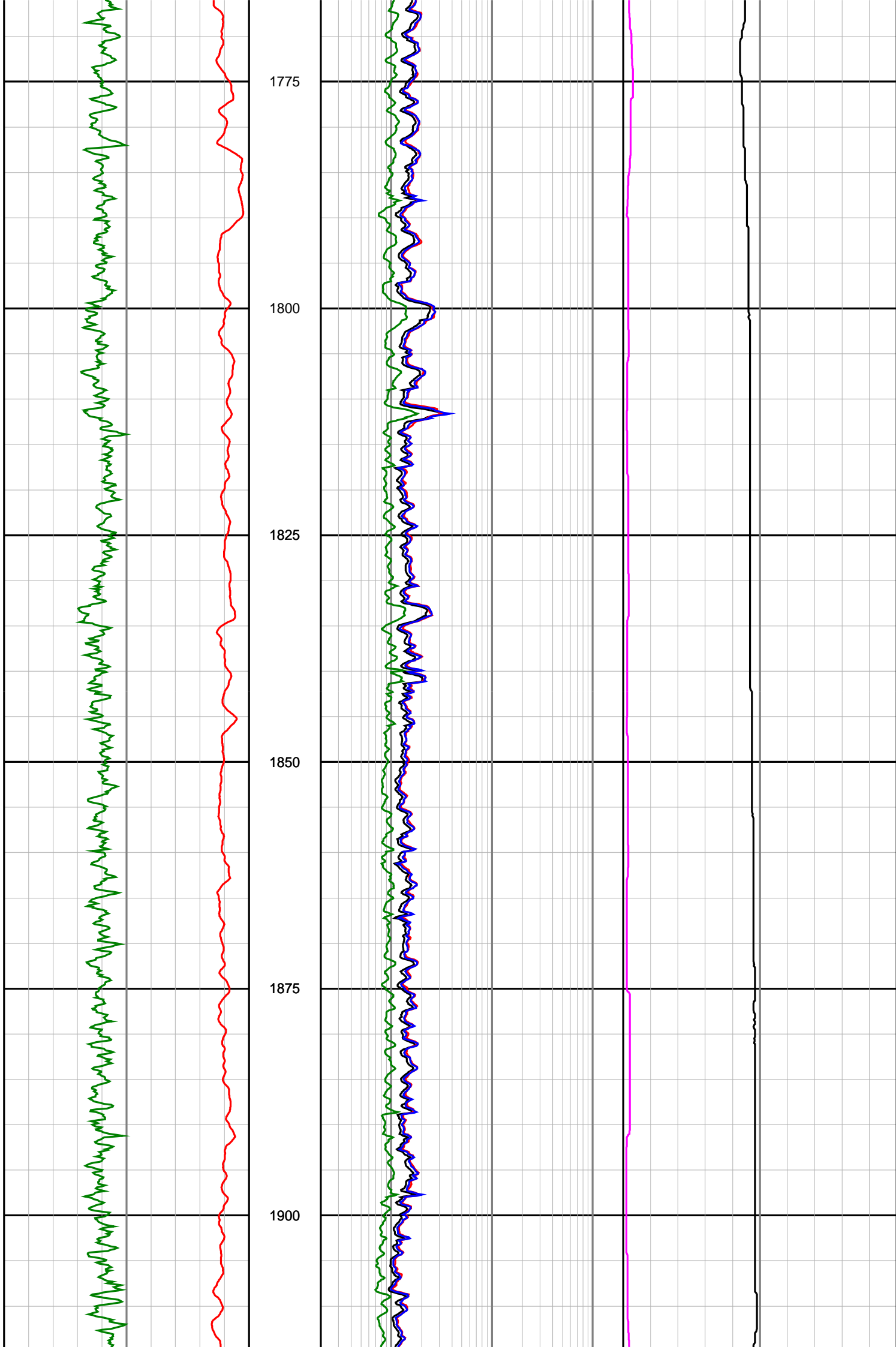


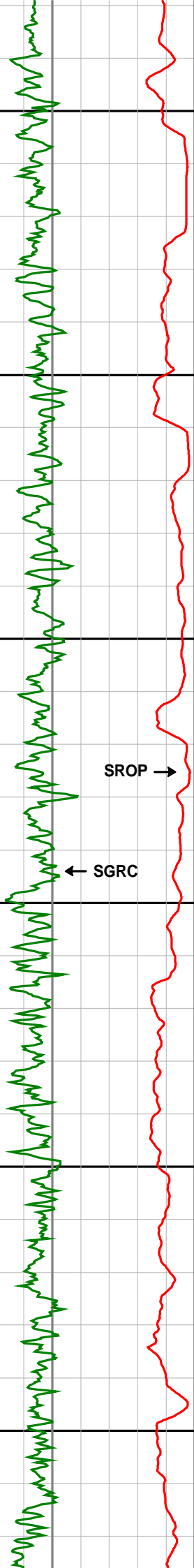












← SGRC

SROP →

1925

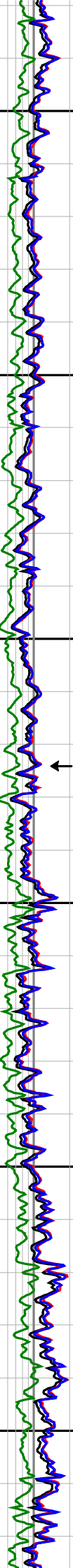
1950

1975

2000

2025

2050



← EWR-P4

← SFXE

STEM →

1925

1950

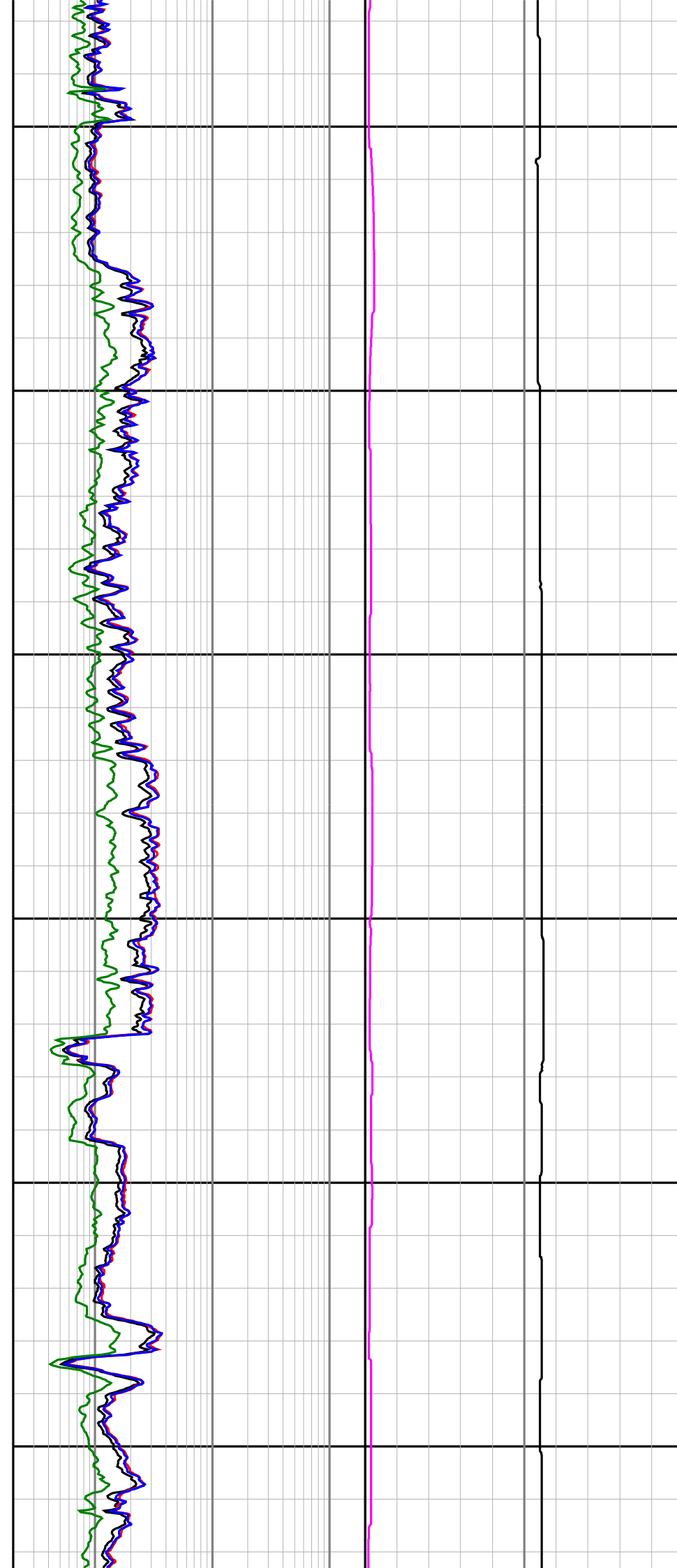
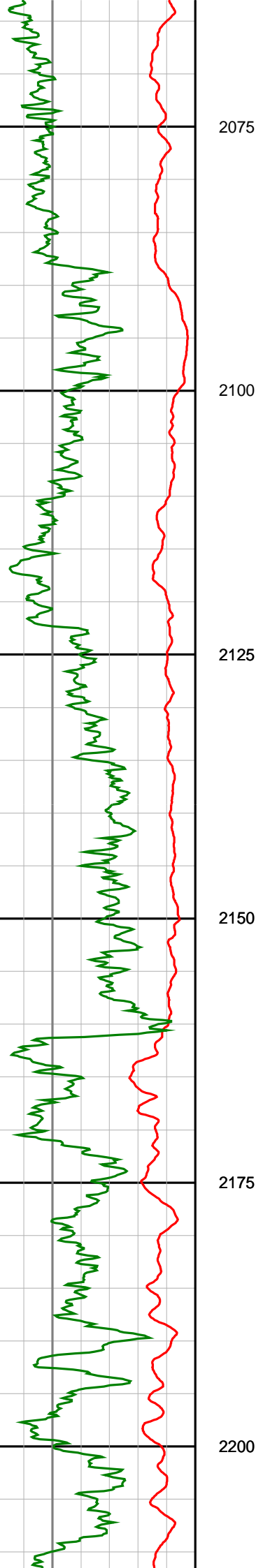
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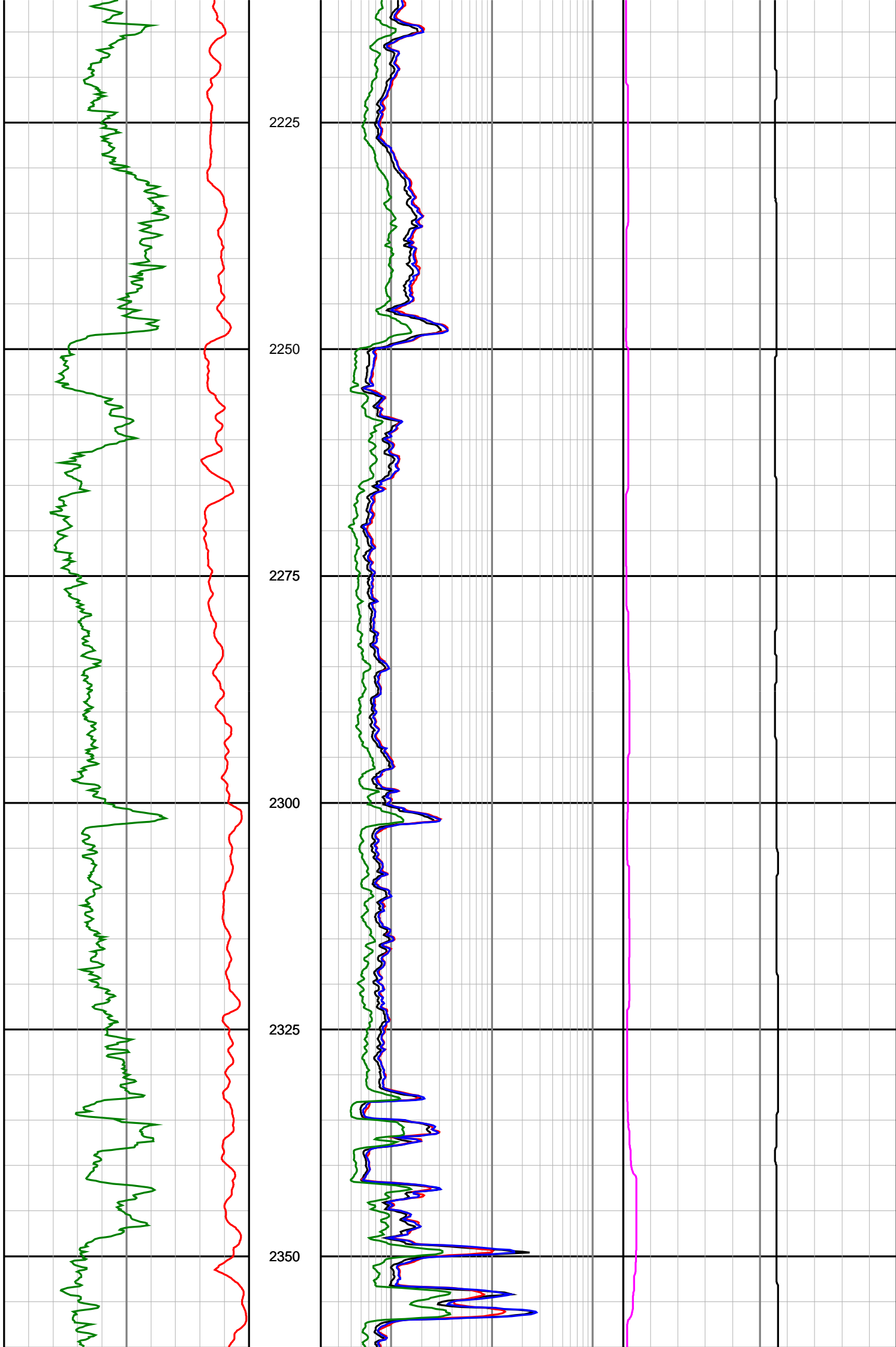
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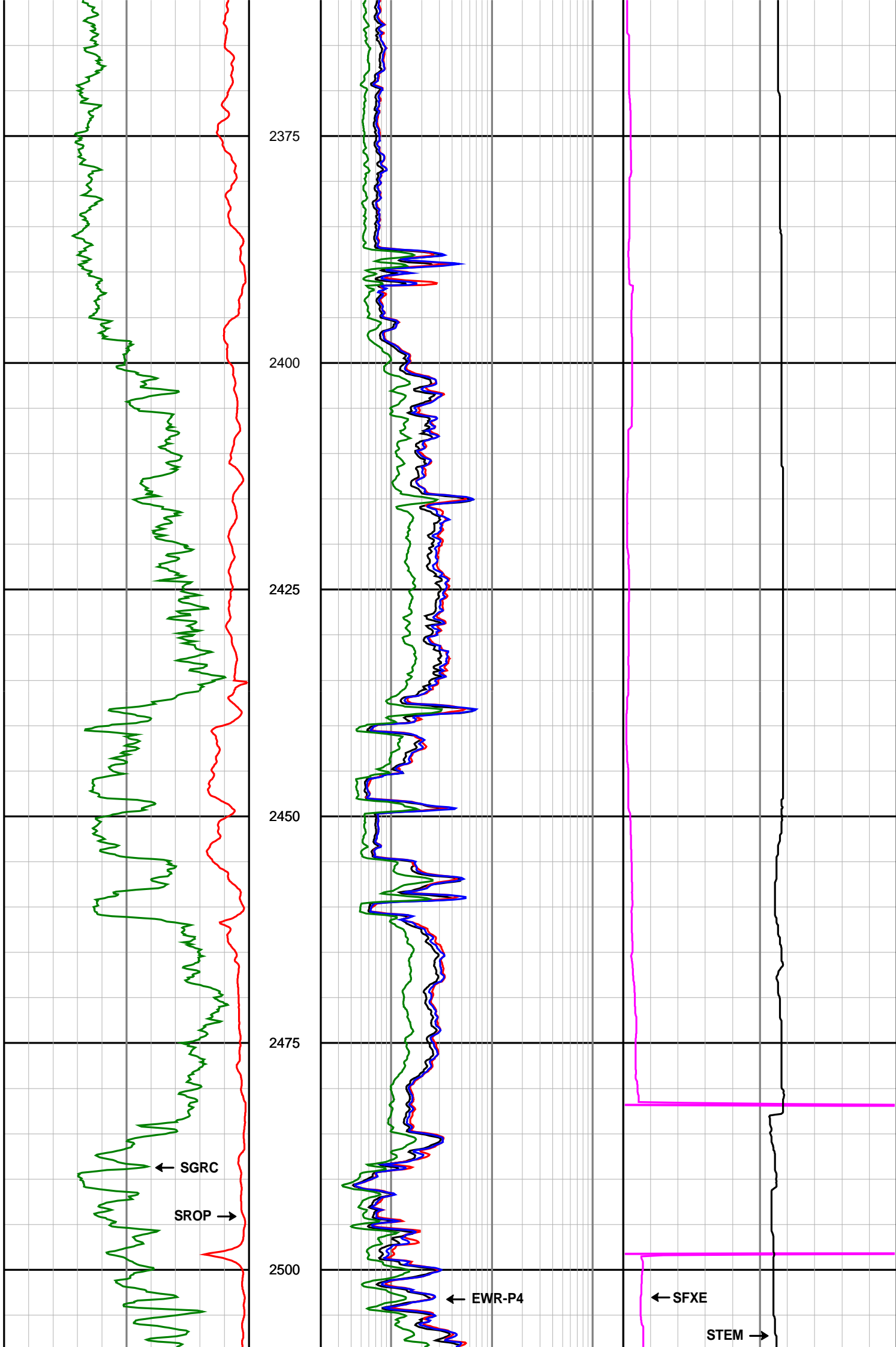
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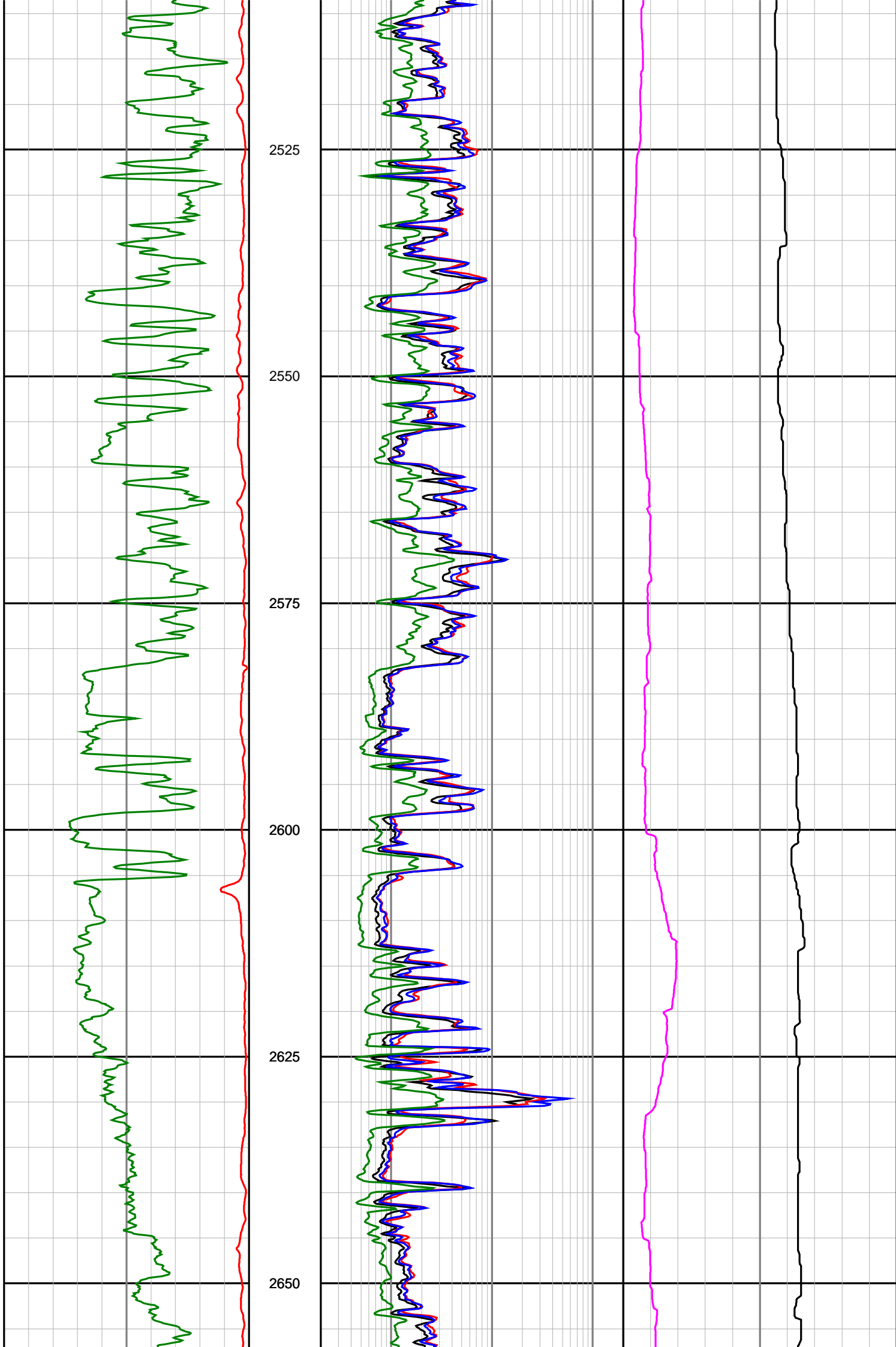
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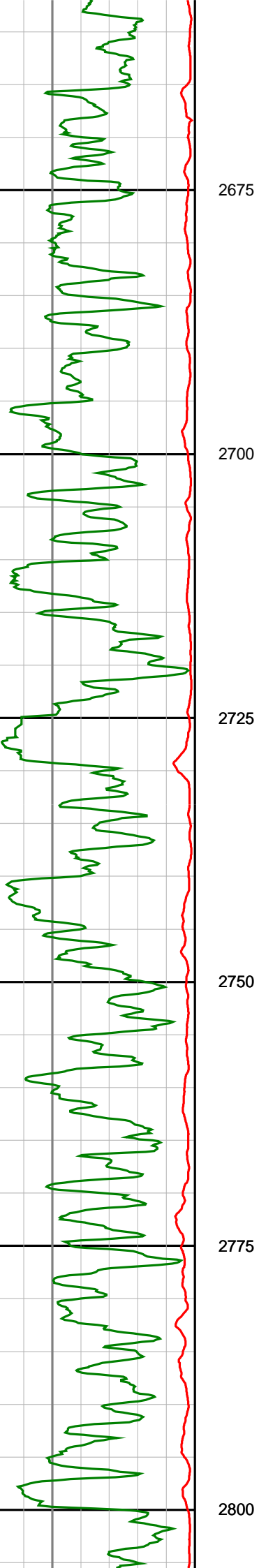












2675

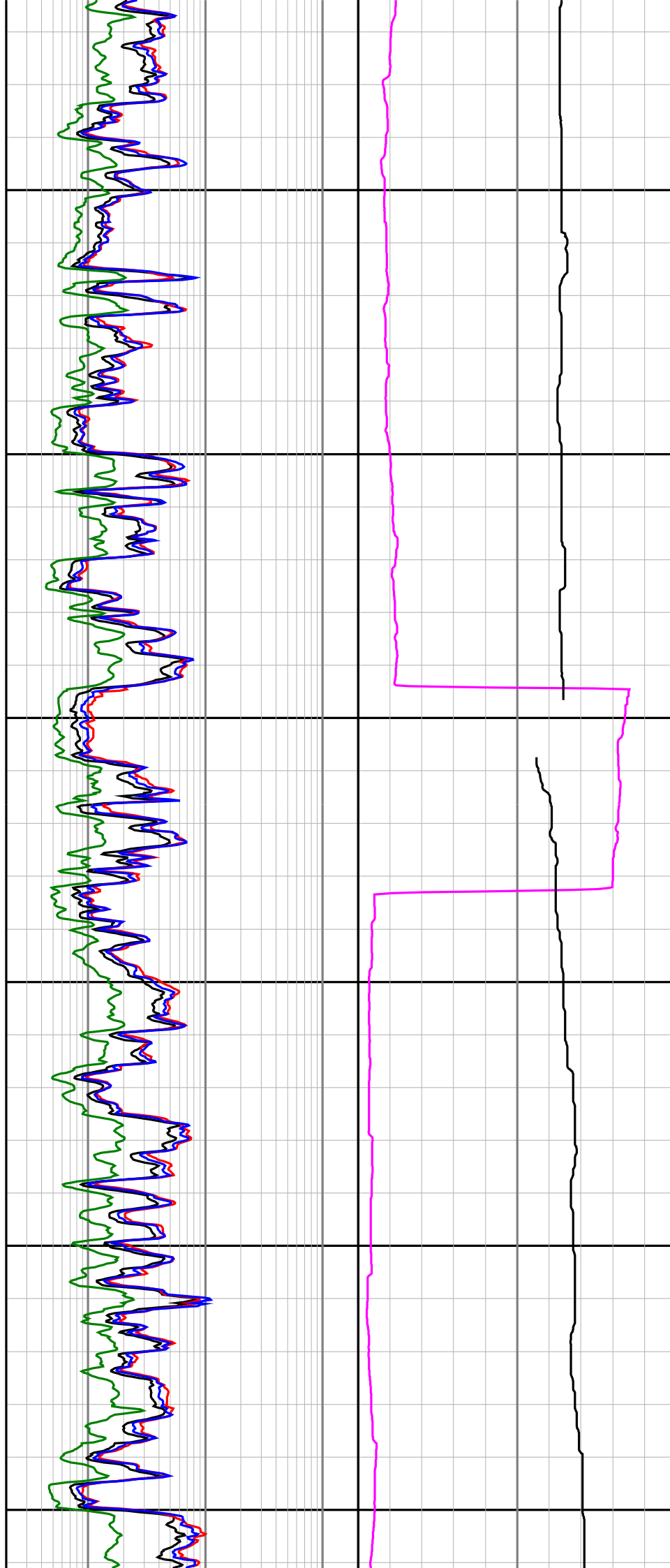
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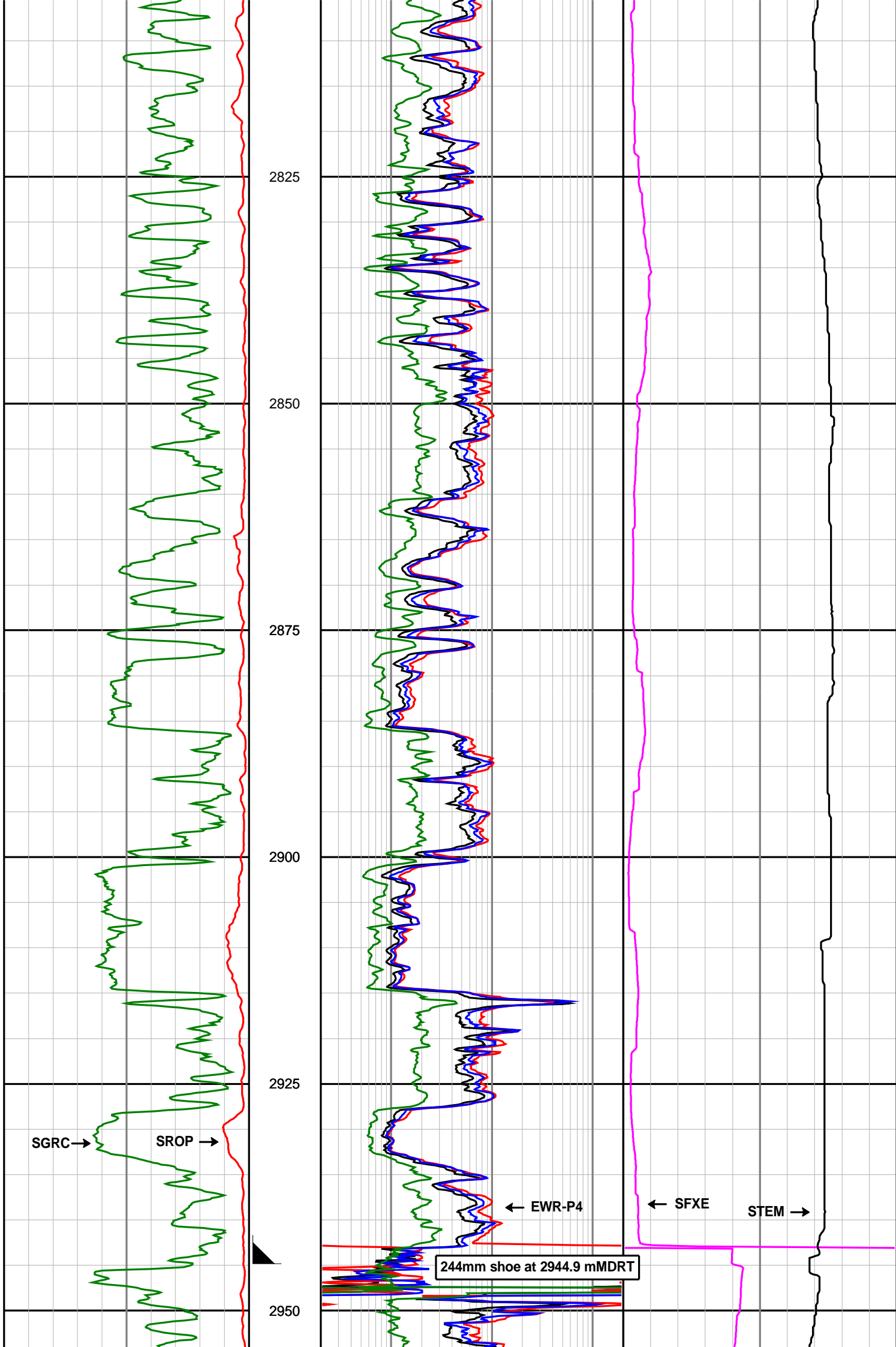
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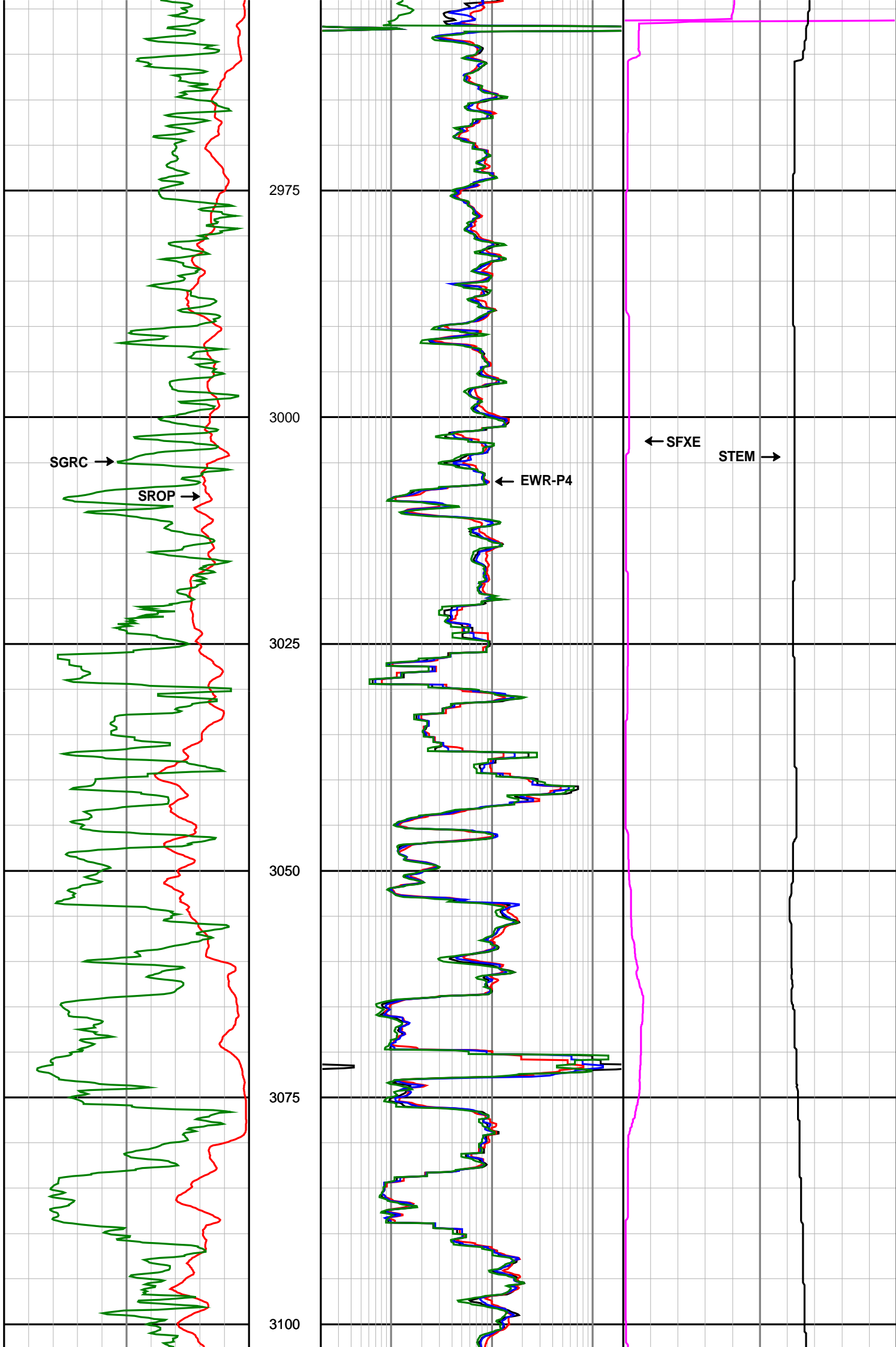
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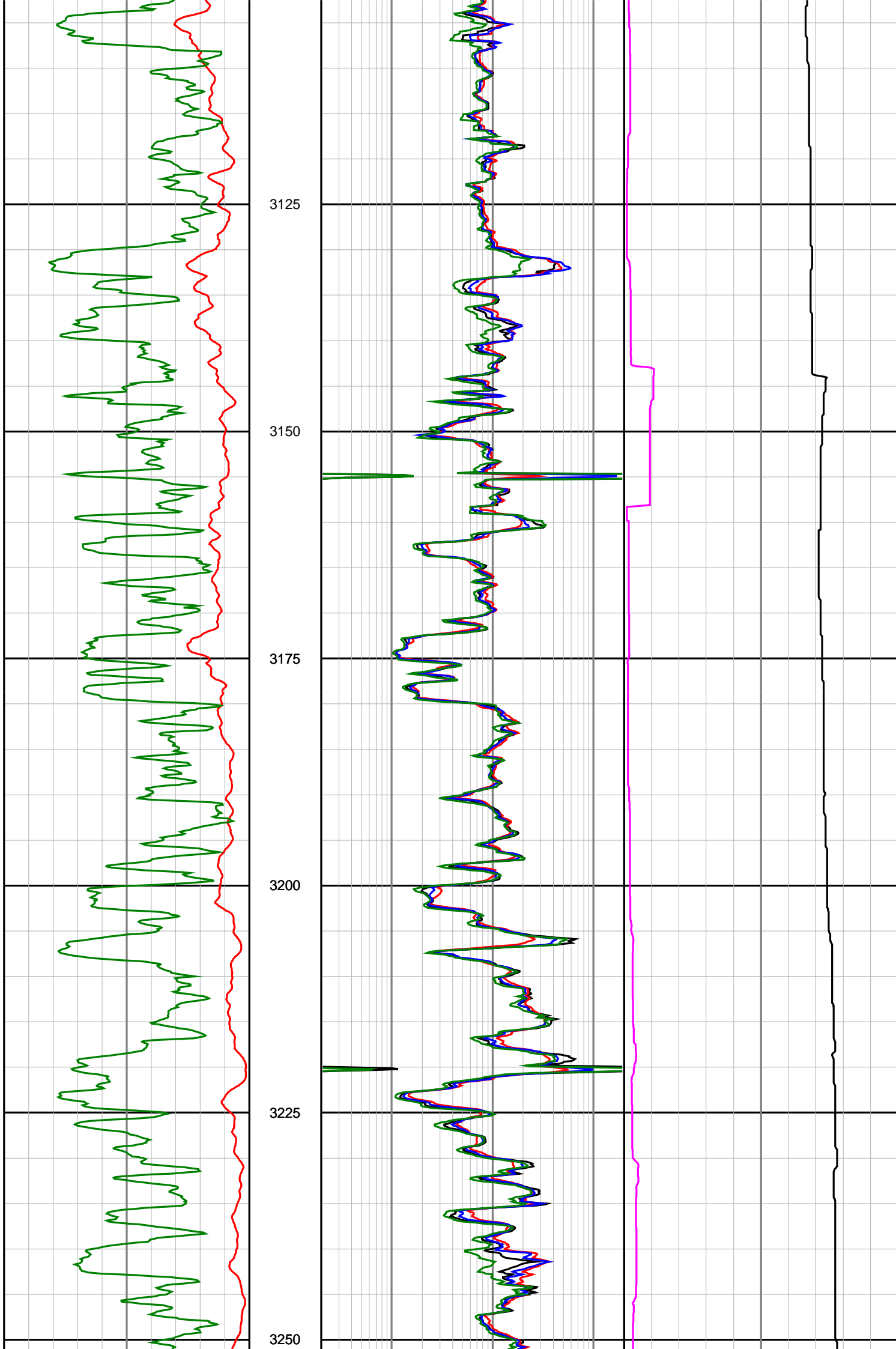
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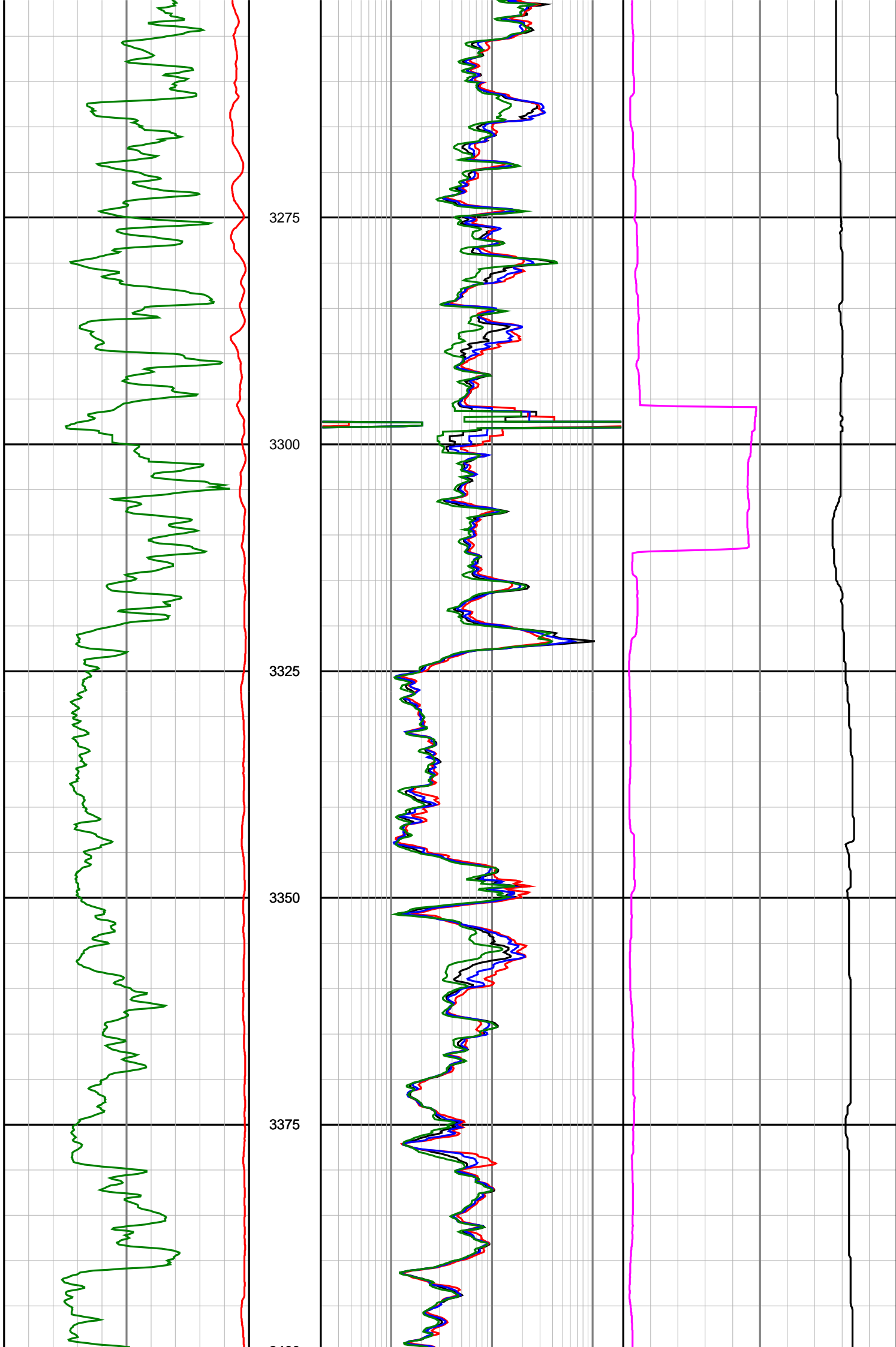


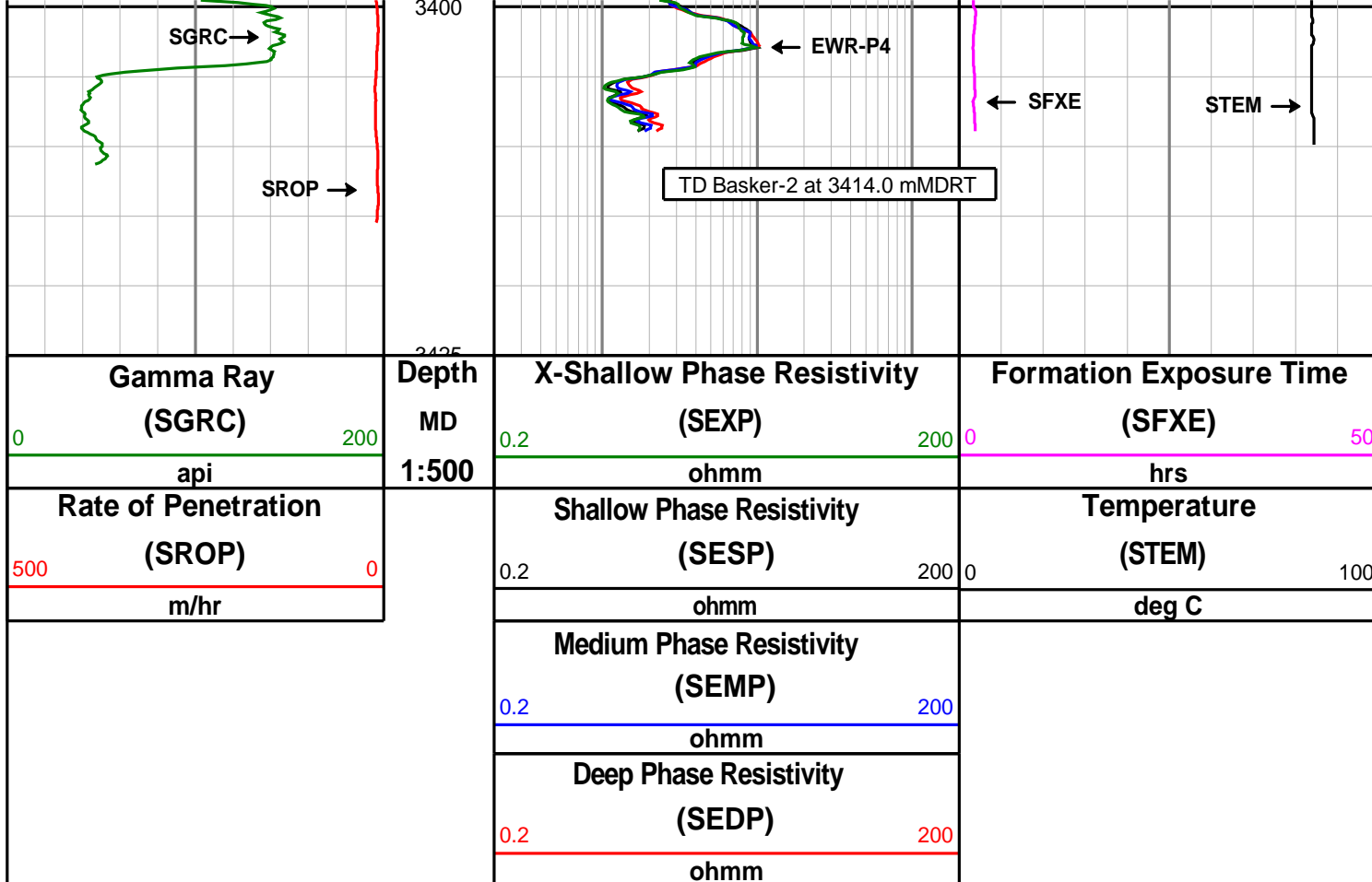












HALLIBURTON

## DIRECTIONAL SURVEY REPORT

Anzon Australia Ltd

Basker-2

Basker

Victoria

Australia

AU-FE-0003704943

RT to MSL = 21.5m. Final survey projected to TD.

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0.000	0.00	0.00	0.000	1.400 N	1.900 E	-1.705	TIE-IN
176.000	0.00	0.00	176.000	1.400 N	1.900 E	-1.705	0.00
224.640	0.19	161.03	224.640	1.325 N	1.926 E	-1.635	0.12
282.390	0.07	139.65	282.390	1.209 N	1.979 E	-1.530	0.07
311.290	0.09	116.77	311.290	1.185 N	2.011 E	-1.512	0.04
340.130	0.10	73.76	340.130	1.181 N	2.056 E	-1.517	0.07
368.980	0.06	116.98	368.980	1.181 N	2.093 E	-1.523	0.07
397.820	0.09	163.12	397.820	1.153 N	2.113 E	-1.499	0.07
426.640	0.04	150.94	426.640	1.122 N	2.125 E	-1.470	0.05
455.270	0.09	138.56	455.270	1.097 N	2.145 E	-1.448	0.05
512.450	0.09	115.62	512.450	1.044 N	2.215 E	-1.409	0.02
541.040	0.09	127.28	541.039	1.020 N	2.255 E	-1.392	0.02
569.570	0.09	149.55	569.569	0.986 N	2.285 E	-1.363	0.04
598.150	0.10	130.15	598.149	0.950 N	2.315 E	-1.334	0.03
626.680	0.07	122.82	626.679	0.925 N	2.348 E	-1.315	0.03
655.390	0.07	93.47	655.389	0.915 N	2.380 E	-1.310	0.04
684.110	0.09	75.67	684.109	0.920 N	2.419 E	-1.321	0.04
713.010	0.07	46.86	713.009	0.937 N	2.455 E	-1.345	0.05
741.780	0.09	14.62	741.779	0.970 N	2.473 E	-1.380	0.05
770.730	0.11	35.10	770.729	1.015 N	2.495 E	-1.428	0.04

## Basker-2

<i>Measured Depth (metres)</i>	<i>Inclination (degrees)</i>	<i>Direction (degrees)</i>	<i>Vertical Depth (metres)</i>	<i>Latitude (metres)</i>	<i>Departure (metres)</i>	<i>Vertical Section (metres)</i>	<i>Dogleg (deg/30m)</i>
799.470	0.10	46.21	799.469	1.055 N	2.528 E	-1.473	0.03
828.160	0.07	89.32	828.159	1.072 N	2.563 E	-1.496	0.07
856.720	0.07	42.39	856.719	1.085 N	2.592 E	-1.513	0.06
885.230	0.00	253.43	885.229	1.097 N	2.604 E	-1.528	0.07
913.660	0.06	324.63	913.659	1.110 N	2.595 E	-1.539	0.07
970.770	0.04	321.60	970.769	1.152 N	2.564 E	-1.575	0.01
990.300	0.10	275.80	990.299	1.159 N	2.542 E	-1.578	0.11
1007.580	0.12	323.98	1007.579	1.175 N	2.517 E	-1.590	0.16
1036.290	0.17	300.46	1036.289	1.222 N	2.462 E	-1.626	0.08
1065.040	0.17	5.05	1065.039	1.288 N	2.428 E	-1.685	0.19
1093.900	0.22	331.06	1093.899	1.381 N	2.404 E	-1.773	0.13
1122.820	0.14	342.26	1122.819	1.463 N	2.367 E	-1.847	0.09
1151.700	0.31	334.26	1151.698	1.566 N	2.322 E	-1.942	0.18
1180.480	0.25	318.65	1180.478	1.683 N	2.248 E	-2.043	0.10
1209.260	0.31	340.89	1209.258	1.803 N	2.181 E	-2.150	0.13
1237.940	0.31	337.82	1237.937	1.948 N	2.127 E	-2.284	0.02
1294.960	0.41	316.37	1294.956	2.238 N	1.928 E	-2.536	0.09
1323.330	0.41	317.99	1323.325	2.387 N	1.790 E	-2.659	0.01
1351.780	0.50	308.15	1351.774	2.539 N	1.624 E	-2.780	0.12
1380.290	0.45	323.73	1380.284	2.705 N	1.461 E	-2.916	0.15
1408.920	0.56	313.66	1408.912	2.891 N	1.294 E	-3.071	0.15
1466.440	0.57	319.35	1466.430	3.302 N	0.905 E	-3.409	0.03
1495.450	0.53	333.19	1495.438	3.531 N	0.750 E	-3.608	0.14
1524.520	0.62	322.85	1524.507	3.777 N	0.595 E	-3.823	0.14
1553.750	0.62	337.42	1553.735	4.048 N	0.439 E	-4.063	0.16
1582.700	0.61	335.79	1582.683	4.333 N	0.316 E	-4.323	0.02
1611.640	0.79	336.96	1611.621	4.656 N	0.175 E	-4.617	0.18
1640.300	0.88	343.27	1640.279	5.047 N	0.035 E	-4.978	0.14
1727.420	1.05	341.55	1727.386	6.447 N	0.411 W	-6.281	0.06
1753.750	1.25	345.40	1753.711	6.955 N	0.560 W	-6.755	0.24
1782.060	1.31	348.87	1782.014	7.571 N	0.701 W	-7.338	0.10
1810.730	1.32	342.05	1810.676	8.207 N	0.866 W	-7.936	0.16
1839.510	1.16	347.31	1839.449	8.808 N	1.032 W	-8.501	0.20
1868.400	1.33	345.60	1868.332	9.420 N	1.180 W	-9.077	0.18
1897.600	1.53	346.99	1897.523	10.127 N	1.352 W	-9.745	0.21
1926.730	1.66	346.26	1926.642	10.915 N	1.540 W	-10.489	0.14
1955.700	1.49	331.53	1955.601	11.653 N	1.818 W	-11.168	0.45
1984.130	1.39	329.83	1984.022	12.274 N	2.167 W	-11.720	0.11
2012.560	1.45	328.82	2012.444	12.879 N	2.526 W	-12.254	0.07
2040.960	1.49	334.37	2040.834	13.517 N	2.870 W	-12.824	0.16
2069.470	1.39	333.91	2069.335	14.161 N	3.182 W	-13.405	0.10
2184.590	1.56	330.85	2184.417	16.785 N	4.561 W	-15.753	0.05
2213.550	1.69	337.47	2213.365	17.524 N	4.917 W	-16.421	0.24
2242.350	1.79	336.87	2242.152	18.331 N	5.256 W	-17.157	0.10
2271.080	1.80	337.68	2270.868	19.161 N	5.604 W	-17.915	0.03
2299.800	1.92	339.68	2299.573	20.029 N	5.942 W	-18.712	0.14
2328.310	1.98	339.76	2328.066	20.938 N	6.278 W	-19.550	0.07
2356.390	1.99	341.40	2356.129	21.855 N	6.601 W	-20.398	0.06
2384.840	2.01	340.79	2384.562	22.795 N	6.923 W	-21.269	0.03
2413.640	2.13	341.03	2413.343	23.778 N	7.264 W	-22.179	0.12
2442.710	2.02	337.08	2442.394	24.762 N	7.639 W	-23.084	0.19
2472.220	2.07	337.28	2471.886	25.733 N	8.048 W	-23.970	0.05
2499.050	2.11	341.02	2498.698	26.646 N	8.395 W	-24.810	0.16
2527.690	1.24	320.72	2527.326	27.384 N	8.763 W	-25.474	1.09
2557.340	0.87	264.89	2556.971	27.612 N	9.190 W	-25.626	1.05
2585.210	1.48	194.31	2584.836	27.244 N	9.490 W	-25.212	1.56
2612.450	3.62	191.42	2612.048	26.059 N	9.747 W	-24.000	2.36
2643.410	6.45	190.09	2642.885	23.388 N	10.246 W	-21.284	2.74
2671.360	7.27	185.29	2670.635	20.083 N	10.684 W	-17.952	1.07
2700.450	9.30	184.65	2699.420	15.909 N	11.044 W	-13.778	2.09

## Basker-2

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
2728.710	10.88	181.90	2727.243	10.967 N	11.317 W	-8.863	1.76
2757.900	13.90	178.27	2755.749	4.706 N	11.303 W	-2.697	3.20
2786.380	15.37	180.97	2783.305	2.488 S	11.264 W	4.384	1.70
2814.750	16.98	182.03	2810.551	10.388 S	11.475 W	12.202	1.73
2844.320	19.56	181.05	2838.629	19.653 S	11.719 W	21.372	2.63
2872.380	24.39	182.40	2864.642	30.144 S	12.047 W	31.764	5.19
2901.450	28.38	180.27	2890.679	43.055 S	12.331 W	44.532	4.23
2930.710	28.88	180.28	2916.361	57.075 S	12.398 W	58.356	0.51
2981.050	30.08	180.84	2960.183	81.847 S	12.642 W	82.802	0.73
3009.870	29.88	179.84	2985.147	96.248 S	12.728 W	97.004	0.56
3038.460	29.08	178.87	3010.035	110.315 S	12.571 W	110.836	0.98
3066.640	28.66	178.39	3034.714	123.916 S	12.247 W	124.179	0.51
3095.280	28.69	178.54	3059.843	137.652 S	11.878 W	137.648	0.08
3123.980	28.01	177.16	3085.100	151.270 S	11.368 W	150.977	0.98
3153.210	27.87	176.17	3110.922	164.943 S	10.571 W	164.311	0.50
3181.820	27.45	174.86	3136.263	178.184 S	9.533 W	177.177	0.77
3210.140	26.65	173.92	3161.484	191.002 S	8.274 W	189.589	0.96
3238.540	26.31	172.34	3186.905	203.574 S	6.760 W	201.715	0.82
3267.810	25.94	171.77	3213.184	216.340 S	4.980 W	213.986	0.46
3307.720	26.06	170.42	3249.054	233.625 S	2.271 W	230.550	0.45
3364.810	25.94	170.20	3300.365	258.296 S	1.941 E	254.132	0.08
3401.220	25.96	170.31	3333.104	273.999 S	4.638 E	269.139	0.04
3414.000	25.96	170.31	3344.595	279.513 S	5.580 E	274.411	0.00

### CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT  
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT



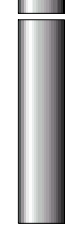



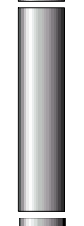



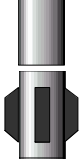

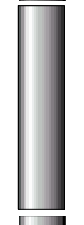



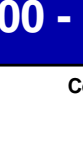

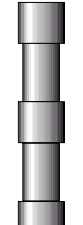

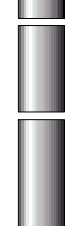





VERTICAL SECTION RELATIVE TO WELL HEAD  
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 189.88 DEGREES (GRID)  
A TOTAL CORRECTION OF 14.44 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.  
HORIZONTAL DISPLACEMENT(CLOSURE) AT 3414.000 METRES  
IS 279.569 METRES ALONG 178.86 DEGREES (GRID)

## MWD RUN 100 - BHA

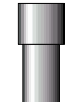

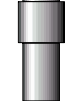

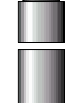

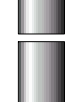

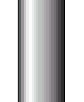

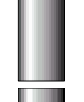



## MWD RUN 100 - MWD





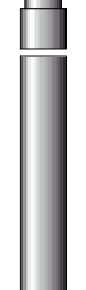









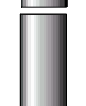


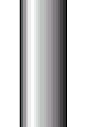





	Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
		242.74		
HWDP	138.430		Positive Pulser	
Cross Over Sub	1.170	104.31		
		103.14		
Drill Collar	18.560			
		84.58	TM	
	10.110			

			74.47			
Drill Collar		26.680		DM		13.880
Cross Over Sub		1.170	47.79			
			46.62			
Drill Collar		27.330		GM		12.000
Integral Blade Stabilizer		1.990	19.29			
			17.30			
MWD		9.880				
Integral Blade Stabilizer		2.440	7.42			
			4.98	Battery Module		
Pony collar		3.000				
Integral Blade Stabilizer		1.570	1.98			
Tricone		.410	0.41	Hang-off Sub		

## MWD RUN 200 - BHA







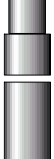





## MWD RUN 200 - MWD

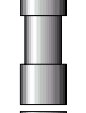

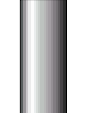
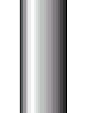




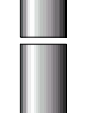


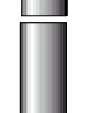
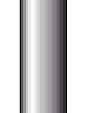


		Component Length (m)	Cumulative Length (m)			Sensor Measure Point Distance To Bit (m)
			200.16			
HWDP		138.430		TM		
			61.73			
Cross Over Sub		1.170				
			60.56			
Pony collar		5.020		PM		
			55.54			
Drilling Jar						

Drilling Jars		10.110				
			45.43	HCIM		
Drill Collar		17.640				
			27.79			
Integral Blade Stabilizer		2.470				
			25.32	EWR-P4		15.790
MWD		13.100				
			12.22			
Cross Over Sub		1.030				
			11.19			
Integral Blade Stabilizer		2.350				
			8.84	DGR		13.420
9-5/8" SperryDrill Lobe 3/4 - 4M_DI		8.500				
			0.34			
PDC		.340				




## MWD RUN 300 - BHA

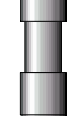



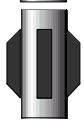



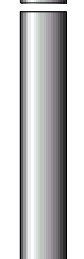


## MWD RUN 300 - MWD











		Component Length (m)	Cumulative Length (m)			Sensor Measure Point Distance To Bit (m)
			200.17			
HWDP		138.430		Positive Pulser		
			61.74			
Cross Over Sub		1.170				
			60.57			
Pony collar		5.020		TM		
			55.55			
Drilling Jars		10.110				

				PM		
		45.44				
Drill Collar		17.640				
		2.470	27.80	HCIM		
Integral Blade Stabilizer		25.33				
		13.100				
MWD		1.030	12.23	EWR-P4		19.200
Cross Over Sub		2.350	11.20			
Integral Blade Stabilizer		8.85				
		8.500		DGR		16.840
9-5/8" SperryDrill Lobe 3/4 - 4M,DI		.350	0.35			
Tricone						






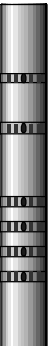





MWD RUN 400 - BHA	MWD RUN 400 - MWD
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	Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
		196.72		
HWDP	138.160		Positive Pulser	
		58.56		
Cross Over Sub	1.170	57.39		
Pony collar	5.020		TM	
		52.37		
Drilling Jars	9.680		DM	

					
		42.69			
Drill Collar		17.640			
			HCIM		
Integral Blade Stabilizer		2.220	25.05		
		22.83			
MWD		12.970			13.410
		9.86			
Cross Over Sub		1.030			
		8.83			
9-5/8" SperryDrill Lobe 3/4 - 4M,DI		8.500			
			DGR		11.050
Tricone		.330	0.33		


















MWD RUN 500 - BHA				MWD RUN 500 - MWD		
		Component Length (m)	Cumulative Length (m)			Sensor Measure Point Distance To Bit (m)
			220.61			
HWDP		55.300		Positive Pulser		
			165.31			
Drilling Jars		9.860				
			155.45	TM		
HWDP		109.890				
			45.56	PM		20.440

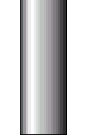



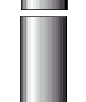

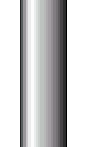











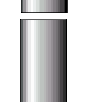






Drill Collar		18.670				
Integral Blade Stabilizer		1.910	26.89	HCIM		
MWD			24.98			
Adjustable Gauge Stabilizer		3.240	12.02	EWR-P4		15.420
Float Sub		.840	8.78			
6-3/4" SperryDrill Lobe 1/2 - 3M <sub>3</sub> DI		7.690	7.94	DGR		13.060
Tricone		.250	0.25			

MWD RUN 600 - BHA

MWD RUN 600 - MWD

		Component Length (m)	Cumulative Length (m)			Sensor Measure Point Distance To Bit (m)
HWDP			222.56			
		55.300		Positive Pulser		
						
Drilling Jars			167.26			
		9.860				
				TM		
			157.40			
HWDP						
		109.890				
						
						
			47.51	PM		
Drill Collar						11.620

		18.660				
Integral Blade Stabilizer		1.970	28.85	HCIM		
			26.88			
Drill Collar		9.380				
Integral Blade Stabilizer		1.340	17.50	EWR-P4		
			16.16			
MWD		12.960				
						
Integral Blade Stabilizer		1.910	3.20	DGR		
Float Sub		.950	1.29			
Tricone		.340	0.34			
						
						6.600
						4.240