

Downhole Processor Information

Tool Type	HCIM				
Software Version	67.88				
Sub Serial Number	GP7912-4				
Insert Serial Number	076300				
Logging String Serial Number	DA90081107				
Date and Time Initialized	14-Jul-05 18:02				
Date and Time Read	21-Jul-05 16:30				

Directional Sensor Information

Tool Type	DM				
Distance From Bit (m)	18.01				
Software Version	3.15				
Sub Serial Number	10599301				
Sonde Serial Number	180031				
Sensor ID Number	N/A				
Survey String Serial Number	N/A				
Toolface Offset (deg)	0				

Gamma Ray Sensor Information

Tool Type	DGR				
Distance From Bit (m)	10.51				
Recorded Sample Period (sec)	12				
Software Version	N/A				
Sub Serial Number	148510				
Insert/Sonde Serial Number	10505499				

Resistivity Sensor Information

Tool Type	EWR-P4				
Distance From Bit (m)	12.83				
Recorded Sample Period (sec)	14				
Software Version	1.38				
Sub Serial Number	148503				
Receiver Insert Serial Number	149022				
Transmitter Insert Serial Number	151381				
Receiver Orientation	Down				

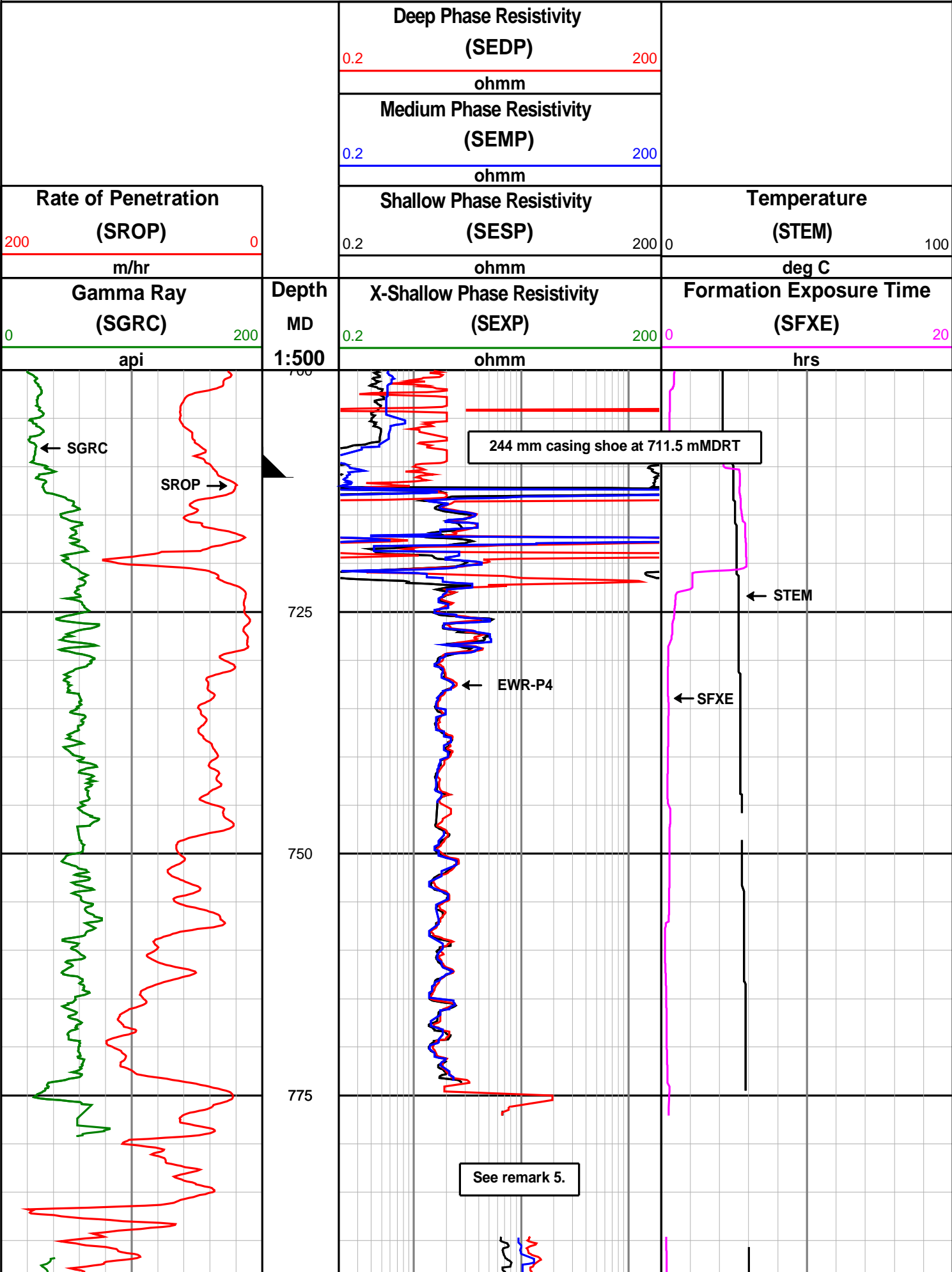
REMARKS

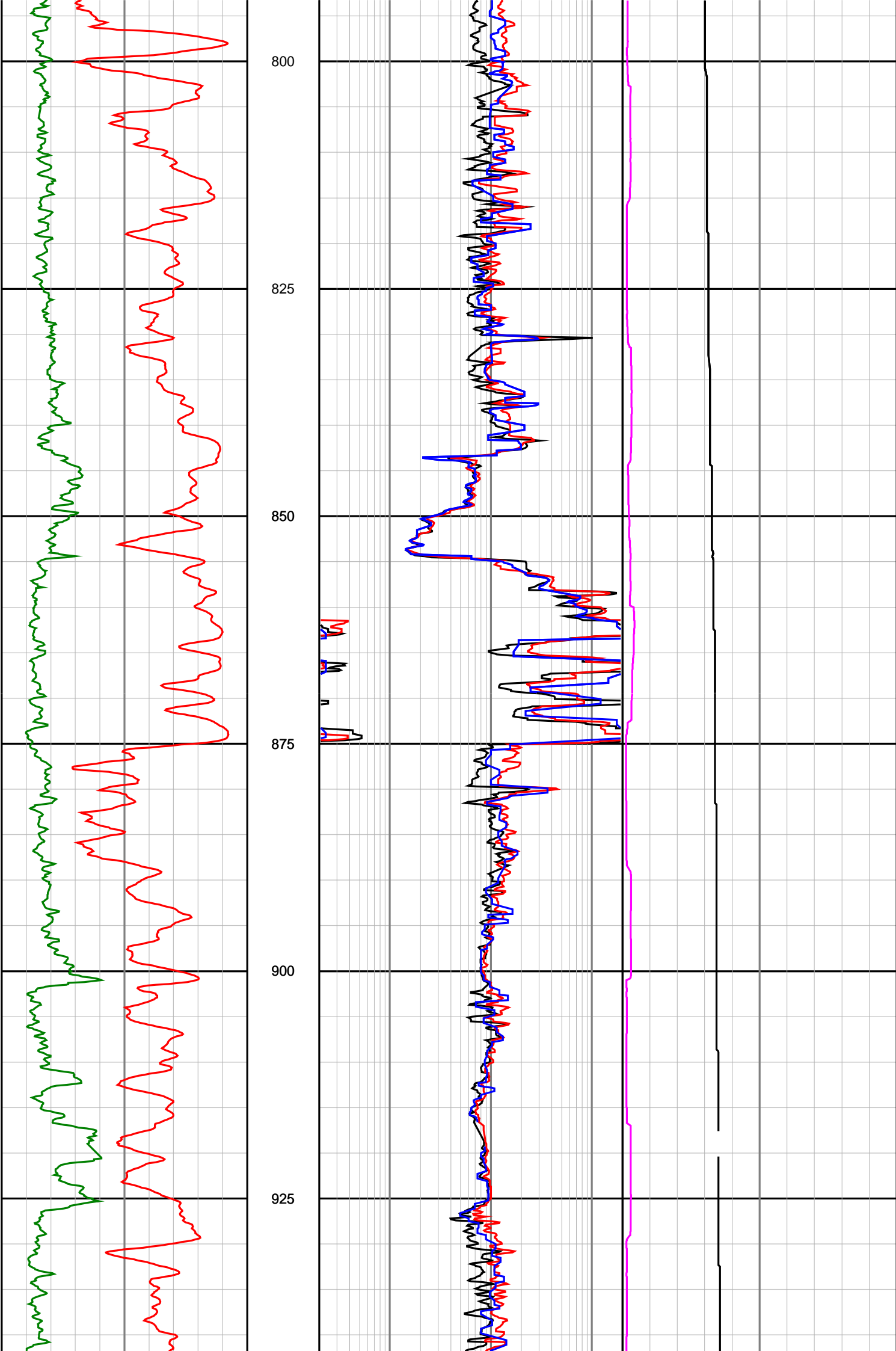
1. All depths are bit depths and referenced to the drillers pipe tally
2. AV/CV is calculated at the MWD collar using the Power Law.
3. Curve mnemonics are:
SGRC - Smoothed Gamma Ray combined (Sperry)
SEXP - Smoothed Extra Shallow Spacing Phase-Shift Derived Resistivity (Sperry)
SESP - Smoothed Shallow Spacing Phase-Shift Derived Resistivity (Sperry)
SEMP - Smoothed Medium Spacing Phase-Shift Derived Resistivity (Sperry)
SEDP - Smoothed Deep Spacing Phase-Shift Derived Resistivity (Sperry)
SROP - Smoothed Rate of Penetration (Sperry)
SFXE - Smoothed Resistivity Formation Exposure Time (Sperry)
STEM - Smoothed Temperature from Resistivity tool (Sperry)
4. The data presented is realtime due to the BHA becoming stuck when pulling out and the loss of the MWD tool downhole. Therefore no SEXP data is presented.
5. Realtime data lost because of a broken pump stroke counter.
6. Realtime data lost because of unit power down.

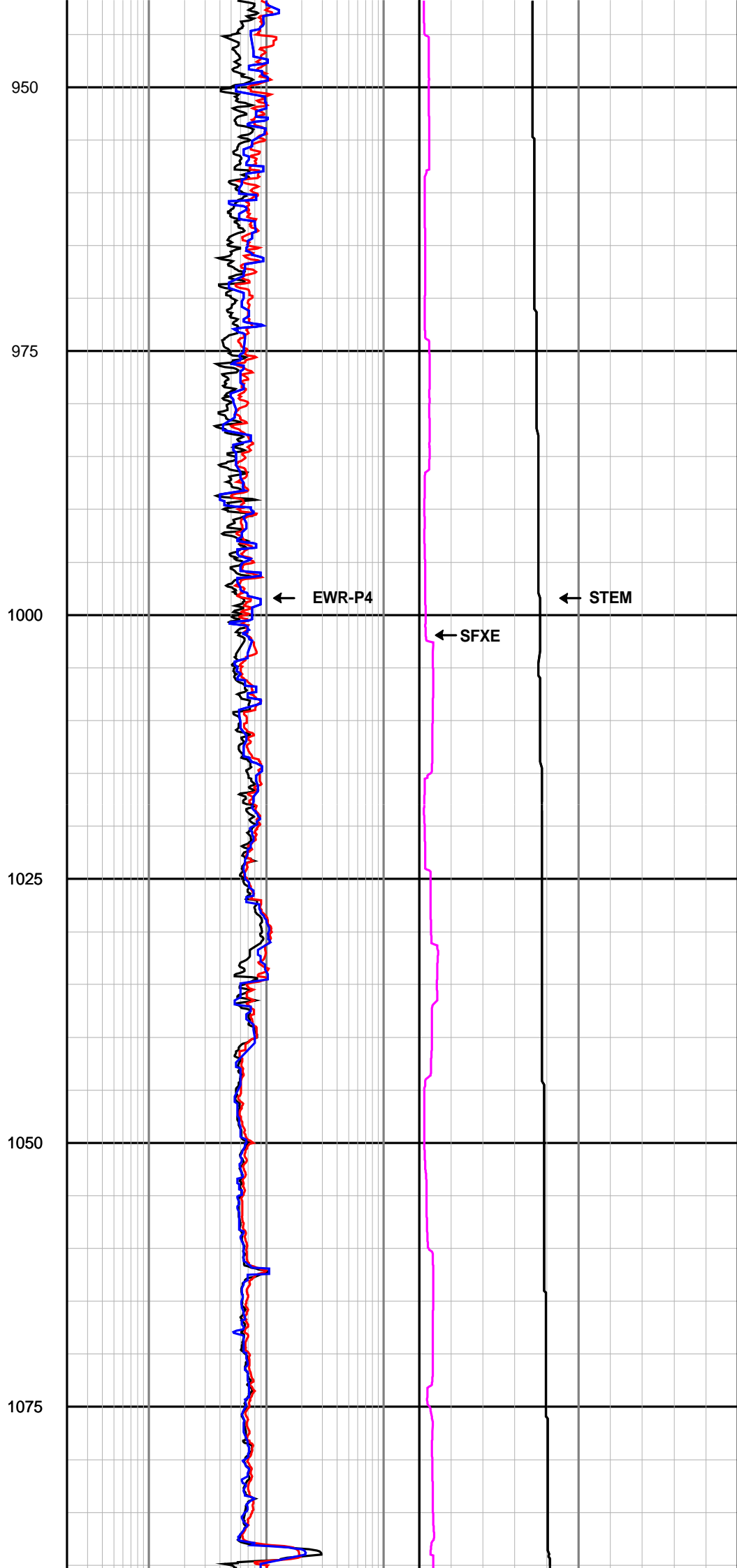
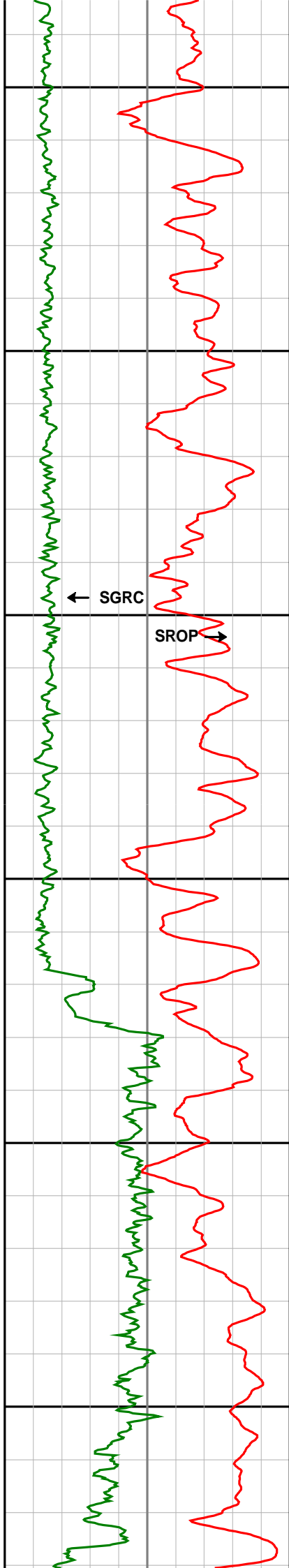
WARRANTY

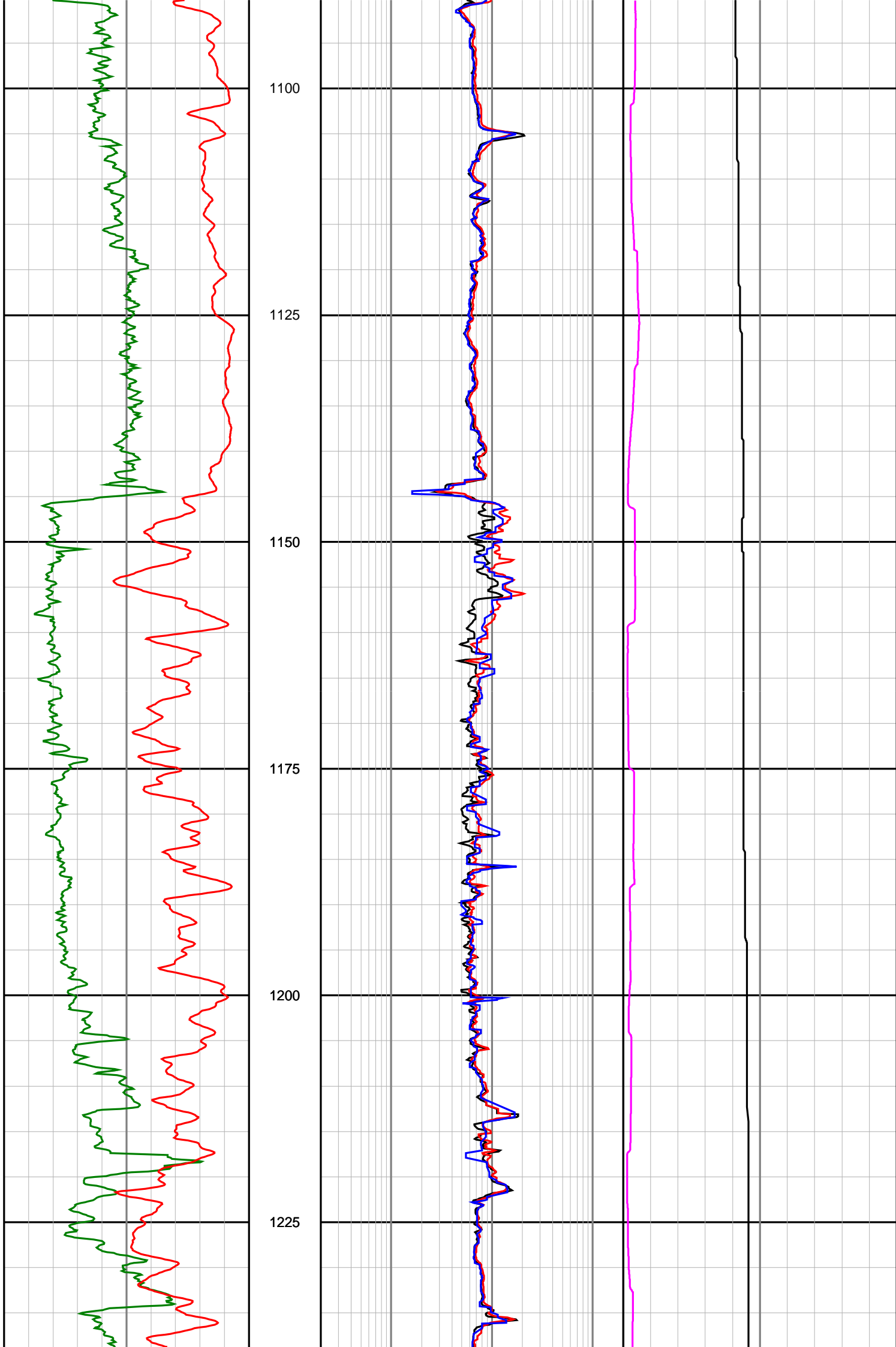
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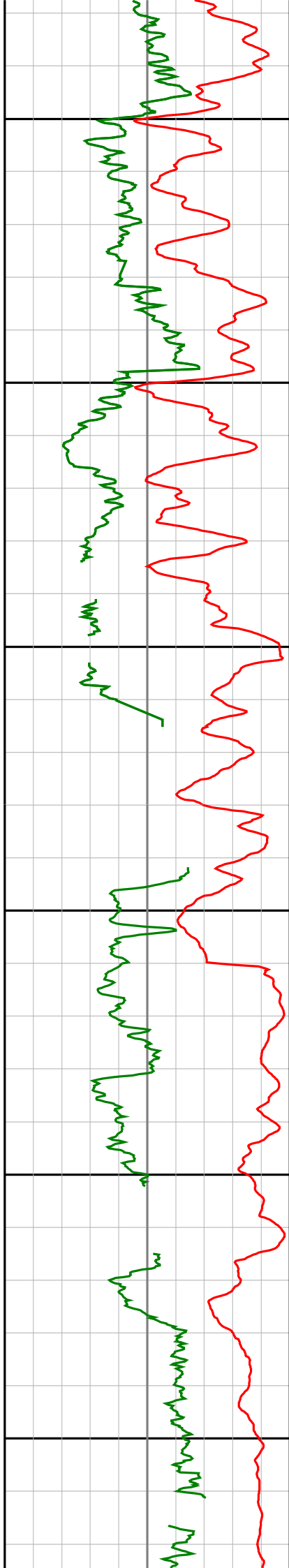
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1250

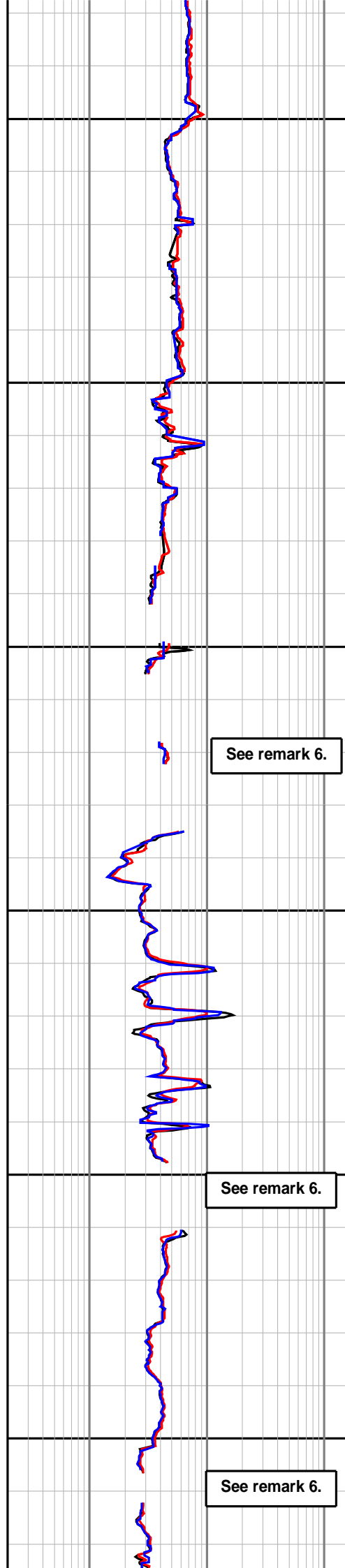
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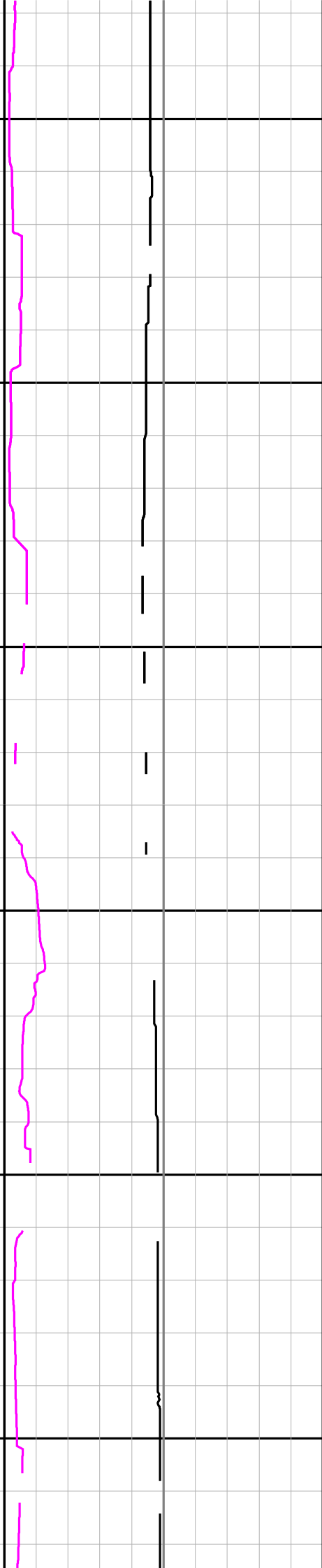
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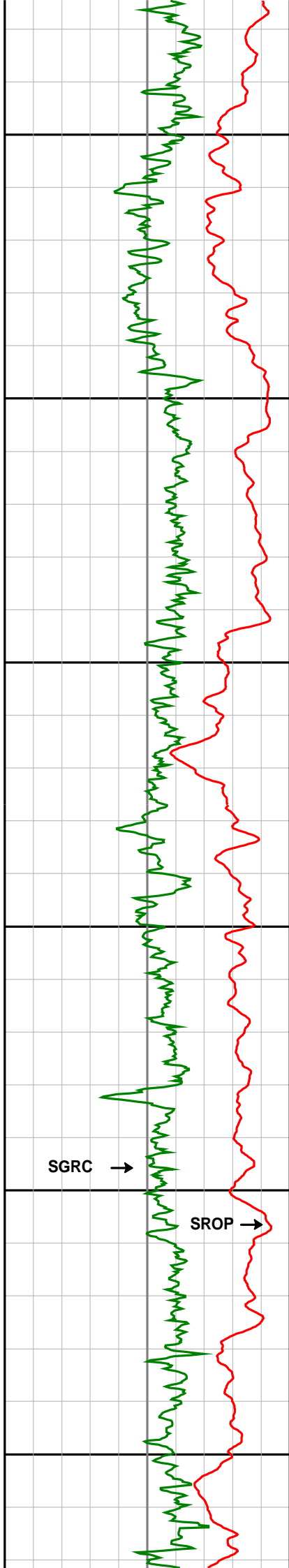


See remark 6.

See remark 6.

See remark 6.





1400

1425

1450

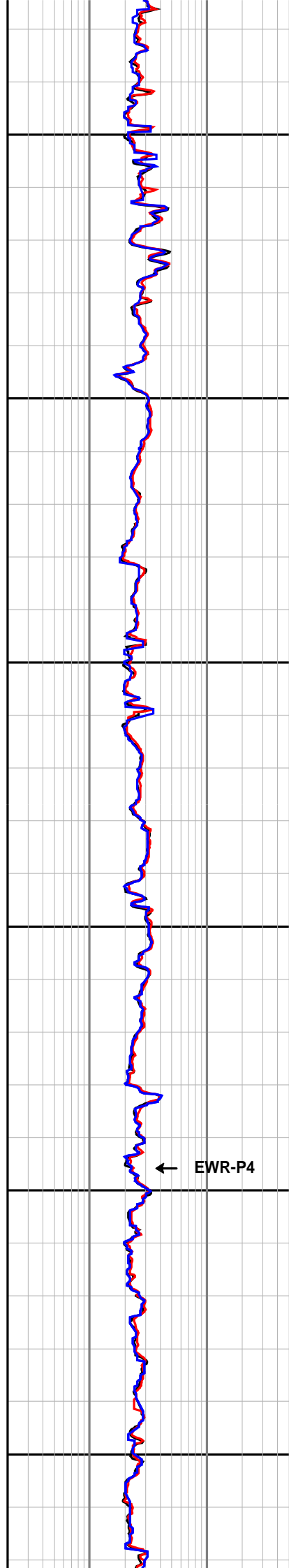
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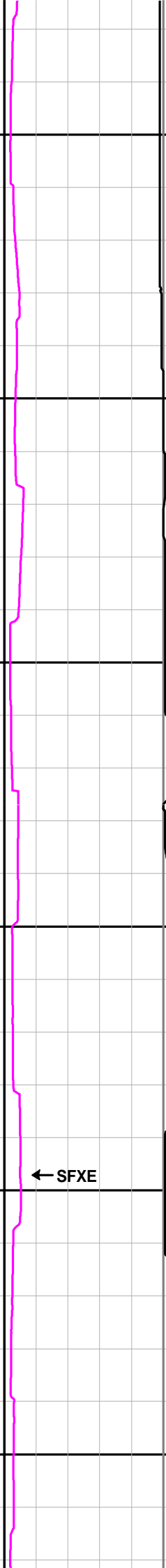
SGRC →

SROP →

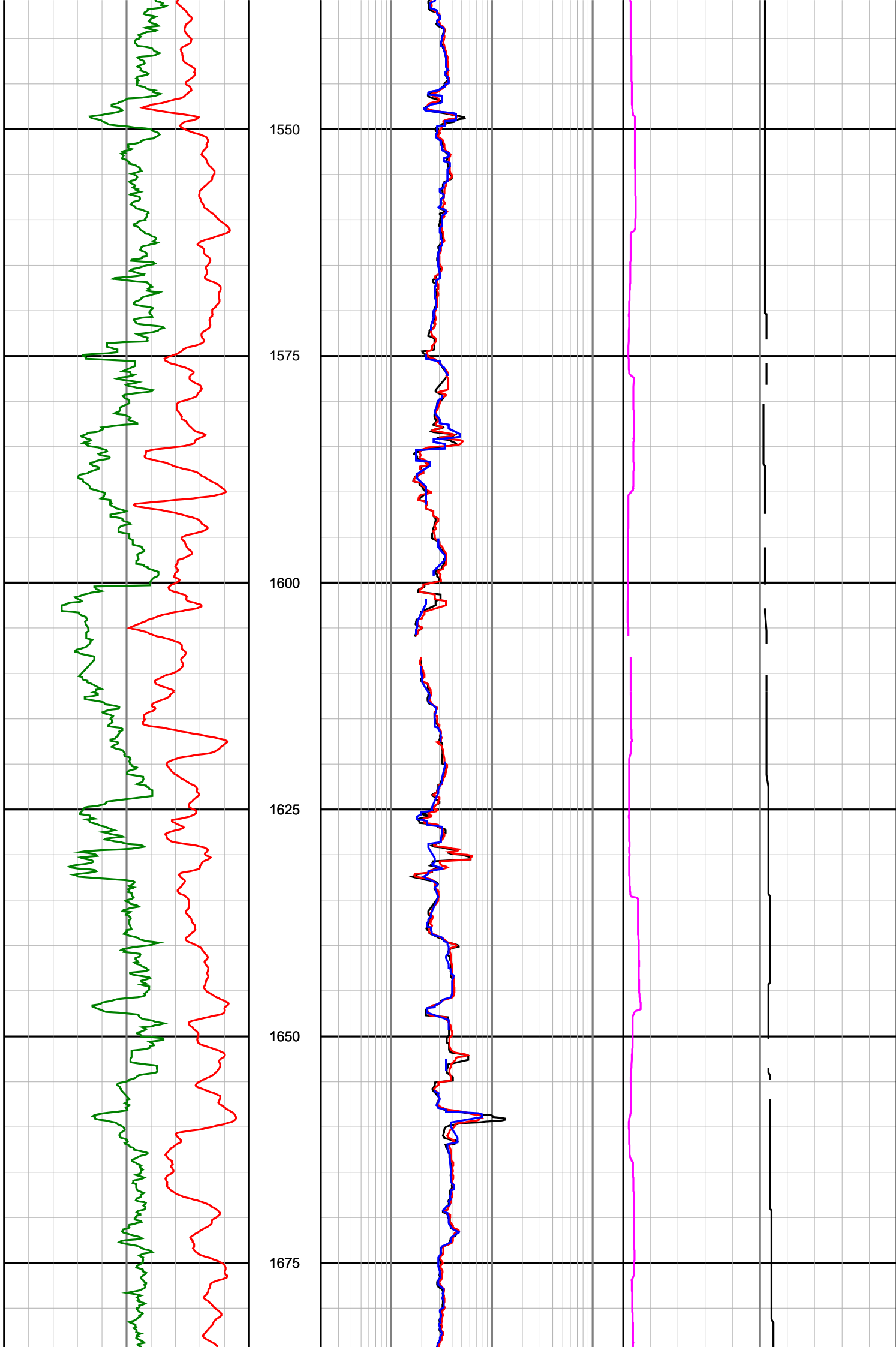


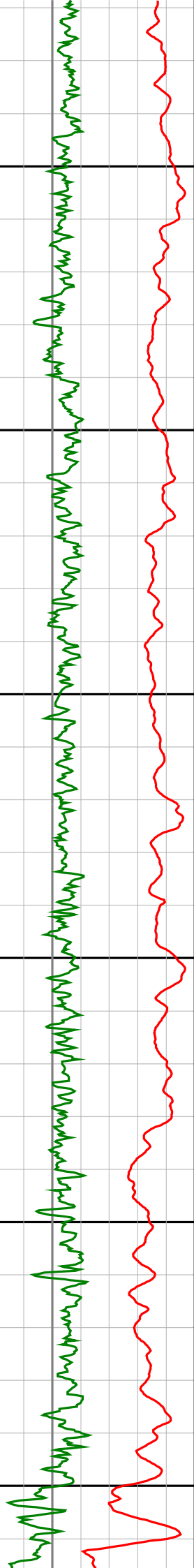
← EWR-P4

← SFXE



← STEM





1700

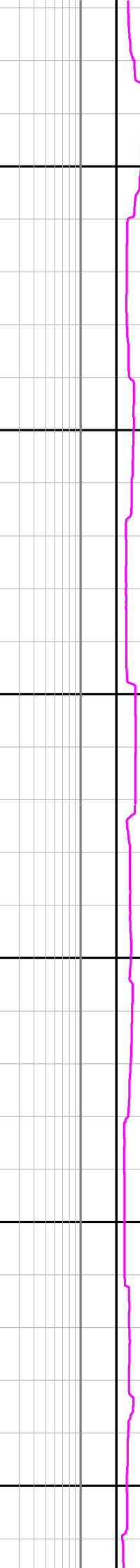
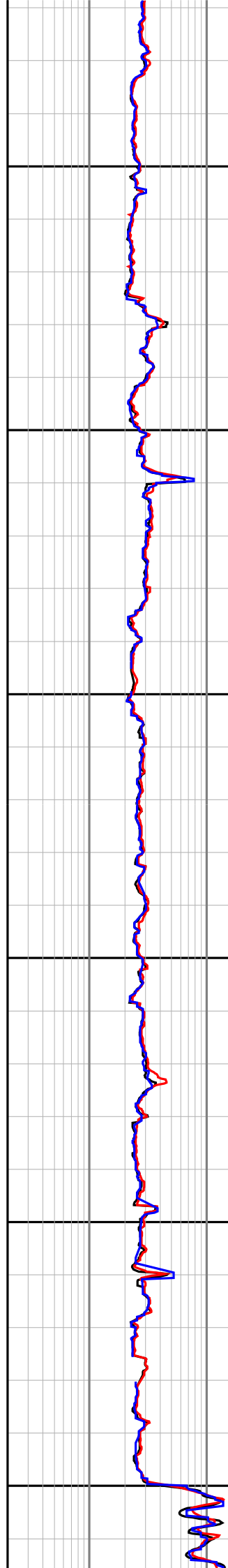
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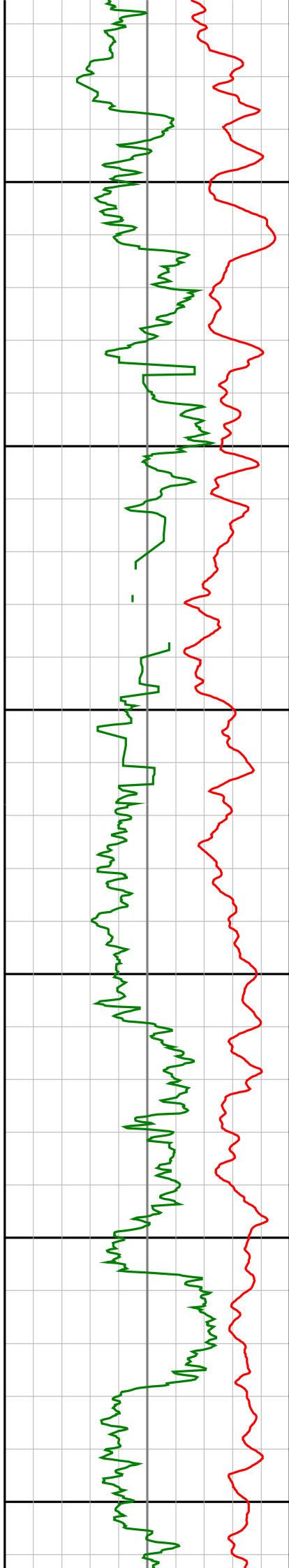
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1800

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1850

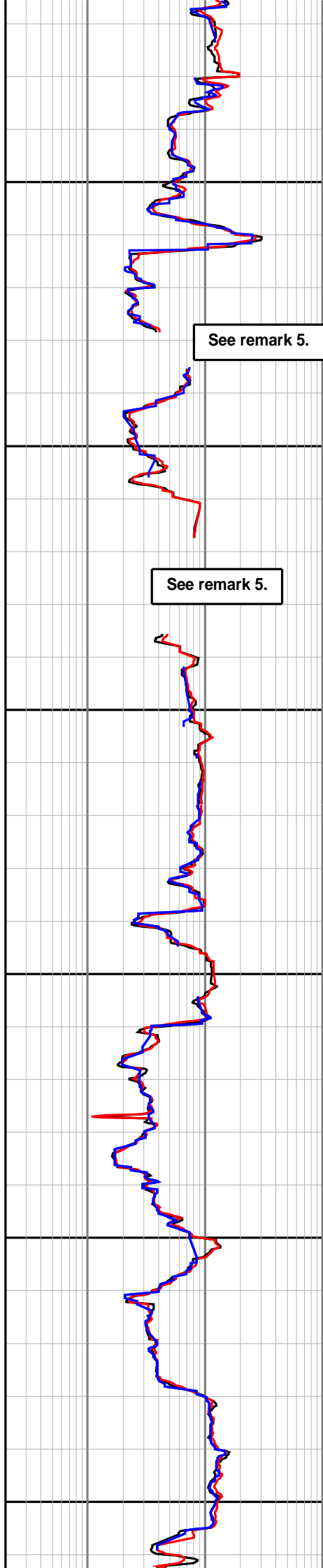
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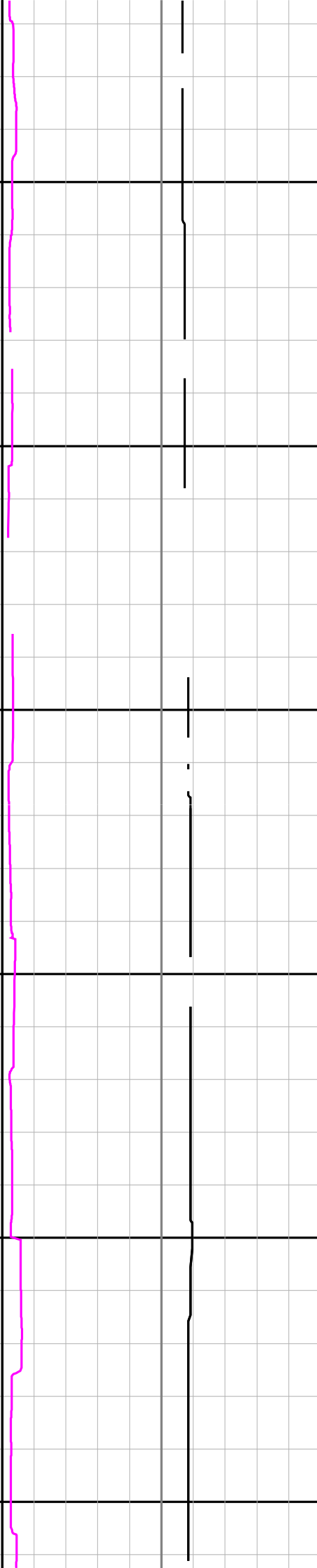
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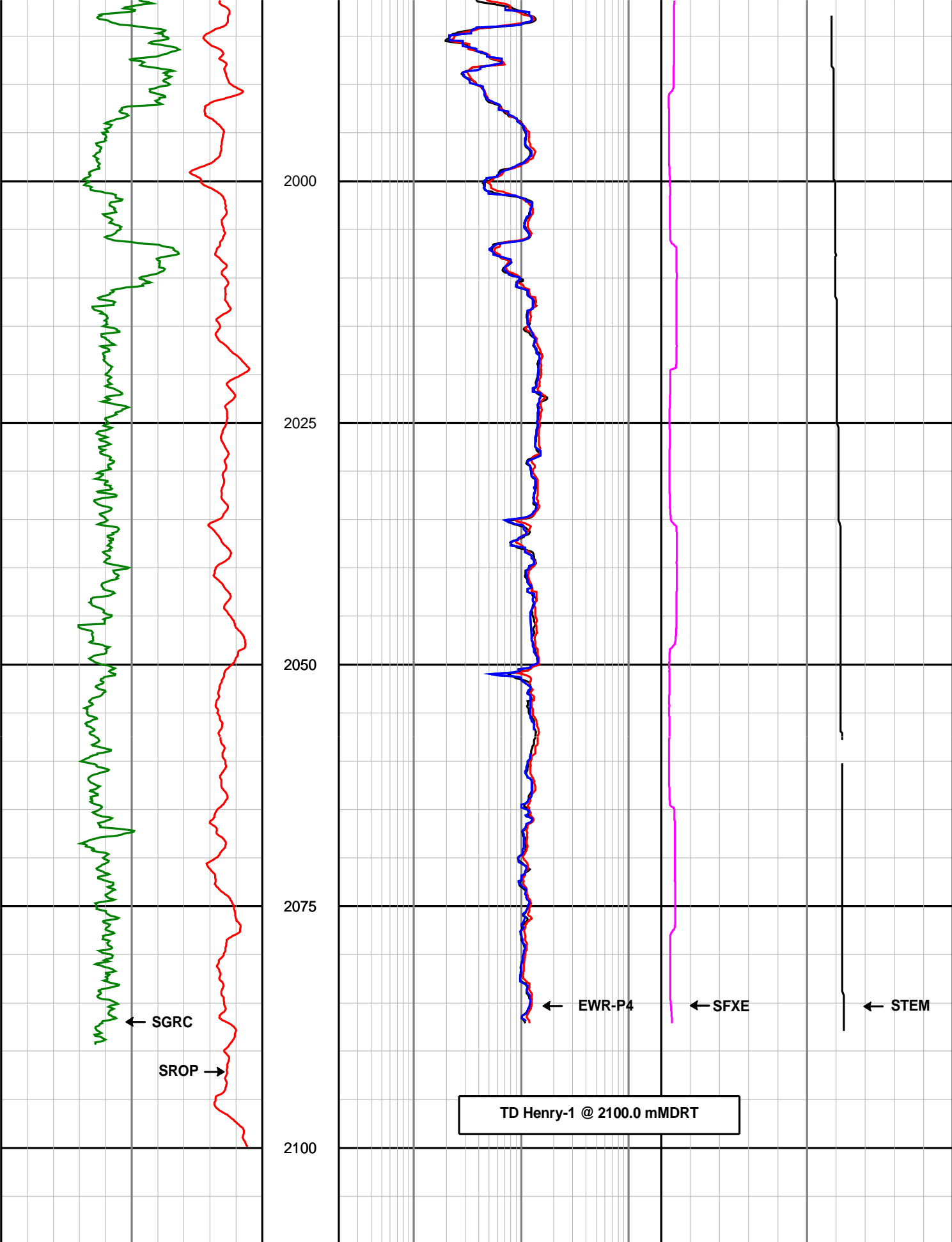
1975



See remark 5.

See remark 5.





Gamma Ray (SGRC)	Depth MD	X-Shallow Phase Resistivity (SEXP)	Formation Exposure Time (SFXE)
0200	1:500	0.2200	020
api		ohmm	hrs
Rate of Penetration (SROP)		Shallow Phase Resistivity (SESP)	Temperature (STEM)
2000		0.2200	0100
m/hr		ohmm	deg C

	Medium Phase Resistivity	
	(SEMP)	
	0.2	200
	ohmm	
	Deep Phase Resistivity	
	(SEDP)	
	0.2	200
	ohmm	



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DIRECTIONAL SURVEY REPORT

Santos
Henry-1
Exploration
Victoria
Australia

AU-FE-0003730529

RT to LAT = 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)
89.000	0.00	0.00	89.000	0.000 N	0.000 E	0.000	TIE-IN
129.120	0.20	77.22	129.120	0.015 N	0.068 E	-0.057	0.15
156.830	0.27	96.57	156.830	0.019 N	0.180 E	-0.159	0.11
184.380	0.31	94.92	184.379	0.005 N	0.319 E	-0.292	0.04
212.400	0.36	101.14	212.399	0.019 S	0.481 E	-0.450	0.07
240.240	0.31	95.93	240.238	0.043 S	0.642 E	-0.608	0.06
267.990	0.35	94.89	267.988	0.058 S	0.801 E	-0.761	0.04
295.630	0.31	95.74	295.627	0.073 S	0.959 E	-0.912	0.04
323.240	0.23	103.56	323.237	0.093 S	1.087 E	-1.039	0.10
352.030	0.26	106.91	352.027	0.126 S	1.206 E	-1.161	0.03
380.740	0.19	216.56	380.737	0.183 S	1.240 E	-1.214	0.39
409.480	0.57	86.36	409.476	0.212 S	1.354 E	-1.331	0.74
438.110	0.38	225.33	438.106	0.270 S	1.429 E	-1.422	0.93
466.790	0.09	330.95	466.786	0.317 S	1.350 E	-1.368	0.43
495.630	0.22	334.71	495.626	0.247 S	1.316 E	-1.309	0.14
524.110	0.69	109.83	524.105	0.256 S	1.454 E	-1.439	0.91
552.730	0.65	125.39	552.723	0.409 S	1.748 E	-1.770	0.19
581.380	0.34	245.98	581.372	0.537 S	1.803 E	-1.870	0.91
609.980	0.51	66.01	609.972	0.520 S	1.842 E	-1.899	0.89
638.770	0.48	95.99	638.761	0.481 S	2.079 E	-2.102	0.27
667.350	0.33	183.45	667.341	0.575 S	2.193 E	-2.244	0.60
695.830	0.26	213.55	695.820	0.711 S	2.152 E	-2.260	0.18
706.660	0.29	230.45	706.650	0.749 S	2.118 E	-2.242	0.24
737.290	0.57	330.57	737.279	0.665 S	1.983 E	-2.086	0.67
765.140	0.66	326.31	765.128	0.410 S	1.825 E	-1.841	0.11
794.770	0.69	317.64	794.756	0.135 S	1.609 E	-1.536	0.11
823.450	0.69	313.37	823.434	0.111 N	1.367 E	-1.217	0.05
852.040	0.58	306.57	852.022	0.316 N	1.125 E	-0.914	0.14
880.680	0.74	315.86	880.660	0.536 N	0.879 E	-0.602	0.20
938.130	0.84	298.53	938.105	1.004 N	0.250 E	0.159	0.13
967.550	1.23	303.40	967.520	1.281 N	0.202 W	0.684	0.41
1024.830	1.38	293.31	1024.785	1.893 N	1.351 W	1.979	0.14
1081.750	1.29	292.11	1081.690	2.406 N	2.574 W	3.306	0.05
1110.620	1.33	294.08	1110.552	2.664 N	3.180 W	3.964	0.06
1139.330	1.33	293.79	1139.254	2.934 N	3.788 W	4.630	0.01
1168.050	1.48	288.35	1167.966	3.185 N	4.446 W	5.334	0.21
1196.680	1.24	288.75	1196.588	3.402 N	5.092 W	6.013	0.25
1225.290	1.26	290.84	1225.191	3.614 N	5.680 W	6.637	0.05
1282.580	1.27	292.53	1282.467	4.081 N	6.856 W	7.902	0.02
1311.270	1.36	293.99	1311.149	4.342 N	7.461 W	8.561	0.10
1369.440	1.09	288.80	1369.306	4.801 N	8.616 W	9.803	0.15
1397.420	1.06	288.53	1397.281	4.969 N	9.113 W	10.327	0.03
1426.060	1.19	298.59	1425.915	5.195 N	9.625 W	10.887	0.25
1454.680	1.13	292.49	1454.530	5.446 N	10.147 W	11.465	0.14
1512.370	1.14	299.08	1512.208	5.942 N	11.174 W	12.604	0.07

Henry-1

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1541.160	1.08	295.34	1540.993	6.197 N	11.669 W	13.160	0.10
1569.990	1.17	304.47	1569.817	6.480 N	12.158 W	13.720	0.21
1598.800	1.11	303.05	1598.622	6.799 N	12.634 W	14.282	0.07
1627.560	1.11	297.60	1627.376	7.080 N	13.114 W	14.834	0.11
1713.620	1.43	291.23	1713.415	7.855 N	14.854 W	16.738	0.12
1742.160	1.36	293.01	1741.947	8.116 N	15.498 W	17.433	0.09
1799.360	1.55	290.26	1799.128	8.650 N	16.848 W	18.885	0.11
1856.780	1.58	284.63	1856.527	9.118 N	18.343 W	20.444	0.08
1885.320	1.76	284.43	1885.055	9.327 N	19.148 W	21.267	0.19
1914.030	1.68	290.65	1913.752	9.585 N	19.969 W	22.124	0.21
1971.240	1.69	283.89	1970.937	10.084 N	21.572 W	23.795	0.10
2000.030	1.94	285.67	1999.712	10.317 N	22.454 W	24.698	0.27
2057.670	2.08	278.62	2057.317	10.737 N	24.427 W	26.680	0.15
2078.990	2.28	277.99	2078.622	10.854 N	25.230 W	27.465	0.28
2100.000	2.28	277.99	2099.615	10.971 N	26.058 W	28.273	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 CLOSURE OF 292.83 DEGREES (GRID)
A TOTAL CORRECTION OF 11.87 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 2100.000 METRES
IS 28.273 METRES ALONG 292.83 DEGREES (GRID)

MWD RUN 100 - BHA

MWD RUN 100 - MWD

	Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
		300.47		
HWDP	138.970		8 DGWD 650 System	
		161.50		
Drill Collar	18.630			
		142.87		
Drilling Jars	9.760		DM	18.010
		133.11		
Date Printed:28 July 2005				
Drill Collar	101.880			

Tool Joint	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint Type	Tool Joint Length (ft)	Tool Joint Weight (lb)
HCIM	31.23				
NMDC	8.850				
	22.38				
MWD	12.930		EWR-P4	12.830	
Integral Blade Stabilizer	9.45				
	1.780				
	7.67				
Pony collar	5.040				
	2.63				
Integral Blade Stabilizer	2.400				
PDC	.230				
			DGR	10.510	