

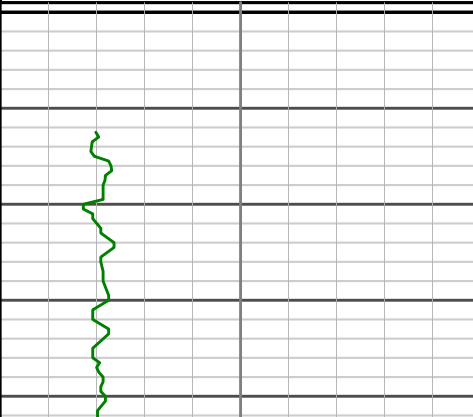
Rmc @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	
Max Tool Temp (degF) / Source	230.00 / EM	205.00 / EMT	70.00 / EMT	245.00 / EMT	
Rm @ Max Tool Temp (degF)	N/A @ 230.00	N/A @ 205.00	N/A @ 70.00	N/A @ 245.00	
Lead MWD Engineer	Jonathan Davis	Jonathan Davis	Jonathan Davis	Jonathan Davis	
Customer Representative	Manny Parra	Manny Parra	Manny Parra	Manny Parra	
SENSOR INFORMATION					
Downhole Processor Information					
Tool Type	EMT-DTU	EMT-DTU	EMT-DTU	EMT-DTU	
Software Version	4.48	4.48	4.48	4.48	
Sub Serial Number	12979193	12979193	12979193	12979193	
Insert Serial Number	12149266	12149266	12149266	12149266	
Date and Time Initialized	N/A	N/A	N/A	N/A	
Date and Time Read	N/A	N/A	N/A	N/A	
ECMB SW Version	N/A	N/A	N/A	N/A	
Directional Sensor Information					
Tool Type	PCDC	PCDC	PCDC	PCDC	
Distance From Bit (ft)	60.00	60.00	53.00	53.00	
Software Version	6.43	6.43	6.43	6.43	
Sub Serial Number	12149266	12149266	12149266	12149266	
Sonde Serial Number	11833218	11833218	11833218	11833218	
Sensor ID Number	N/A	N/A	N/A	N/A	
Toolface Offset (deg)	296.93	282.56	120.70	129.66	
Gamma Ray Sensor Information					
Tool Type	PCG	PCG	PCG	PCG	
Distance From Bit (ft)	54.01	54.01	46.47	46.47	
Recorded Sample Period (sec)	10	10	10	10	
Software Version	8.15	8.15	8.15	8.15	
Sub Serial Number	12149266	12149266	12149266	12149266	
Insert/Sonde Serial Number	11579760	11579760	11579760	11579760	
Electro Magnetic Downhole Terminal Unit Sensor Information					
Tool Type	EMT-DTU	EMT-DTU	EMT-DTU	EMT-DTU	
Distance From PWD To Bit (ft)	N/A	N/A	N/A	N/A	
Hardware Type	EMT Sonde	EMT Sonde	EMT Sonde	EMT Sonde	
Electronics Hardware Rev	Phase 3.0	Phase 3.0	Phase 3.0	Phase 3.0	
Software Version	4.48	4.48	4.48	4.48	
Telemetry Type	Carrier Wave	Carrier Wave	Carrier Wave	Carrier Wave	
REMARKS					
<p>1. All depths are calibrated to the driller's pipe tally and are measured depth measured from the drill floor.</p> <p>2. No depth corrections have been made for pipe stretch or compression.</p> <p>3. All data presented is recorded (Tool memory data) unless otherwise stated.</p> <p>4. EMT was used on Run 100.</p> <p>5. Environmental parameters used to process gamma ray are as follows:</p> <p>Hole Size: 8.50 in.</p> <p>Mud weight: 9.6 - 10 ppm</p>					

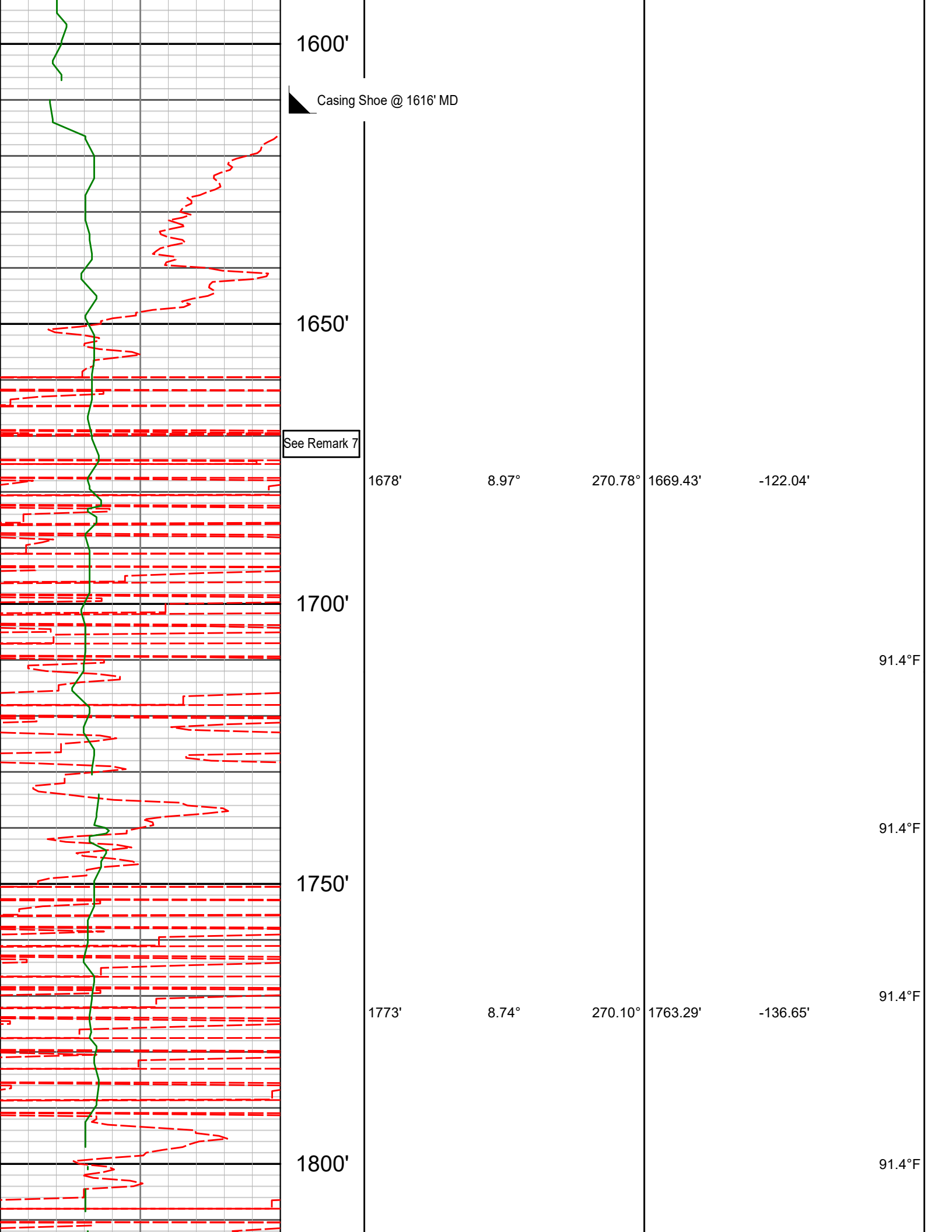
ROPA: 0.5 ft interval, 1.2 ft coercion distance, 3.0 ft gap fill
PGRC: 0.5 ft interval, 0.6 ft coercion distance, 3.0 ft gap fill

9. Insite version 9.2.0

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5" MD Log (1:240)

<div>PCG Gamma Ray BCorr</div> <div>(PGRC)</div> <div>api</div> <div>0300</div>								
<div>Avg Rate of Penetration</div> <div>(ROPA)</div> <div>feet per hr</div> <div>2K0</div>		<div>MD</div> <div>1 : 240</div> <div>ft</div> <div>1550'</div>	<div>Depth</div>	<div>Inc</div>	<div>Azi</div>	<div>TVD</div>	<div>V/S</div>	<div>Temp</div>
			1560'	8.39°	271.92°	1553.08'	-104.28'	



1600'

Casing Shoe @ 1616' MD

1650'

See Remark 7

1678'

8.97°

270.78°

1669.43'

-122.04'

1700'

91.4°F

1750'

91.4°F

1773'

8.74°

270.10°

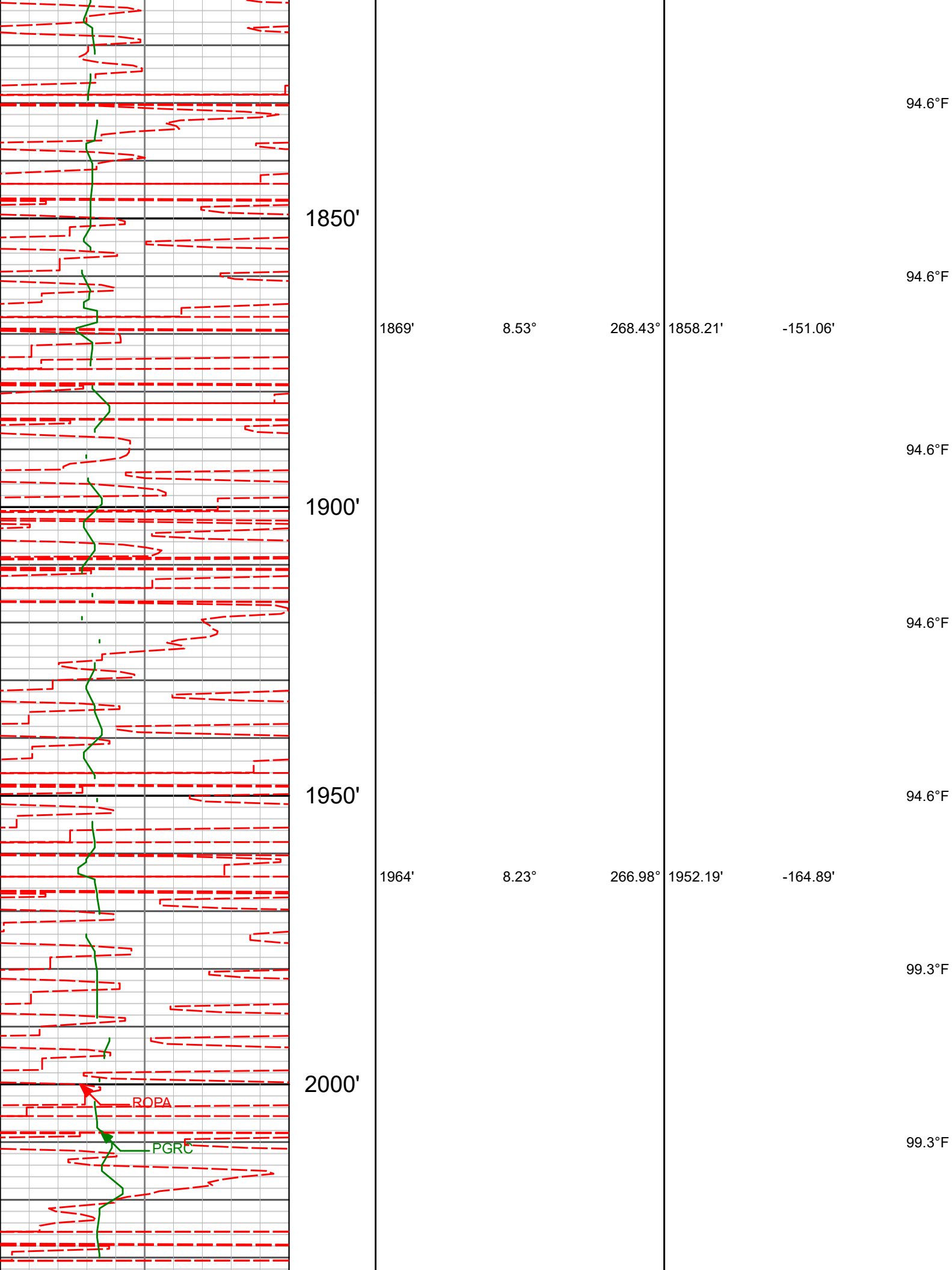
1763.29'

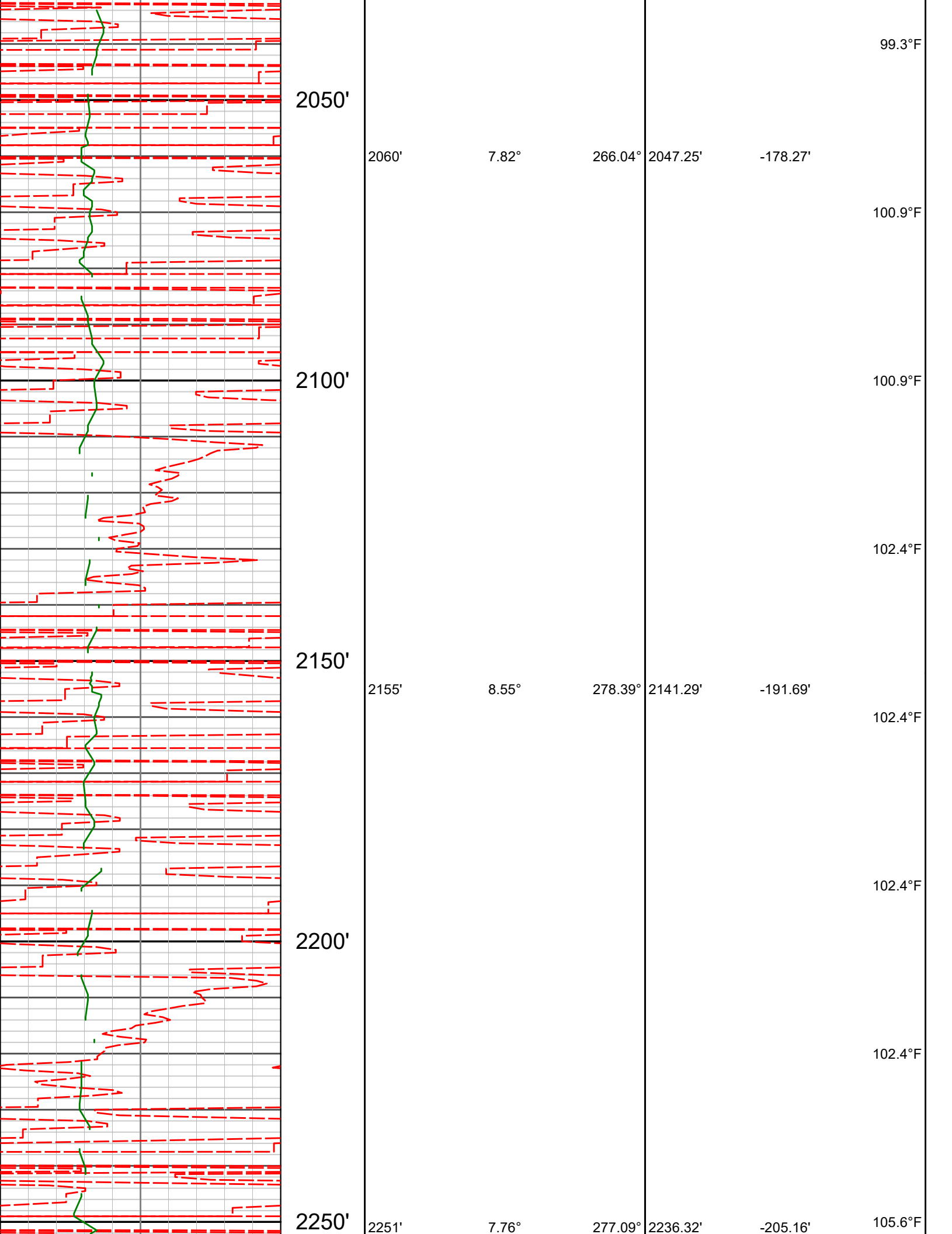
-136.65'

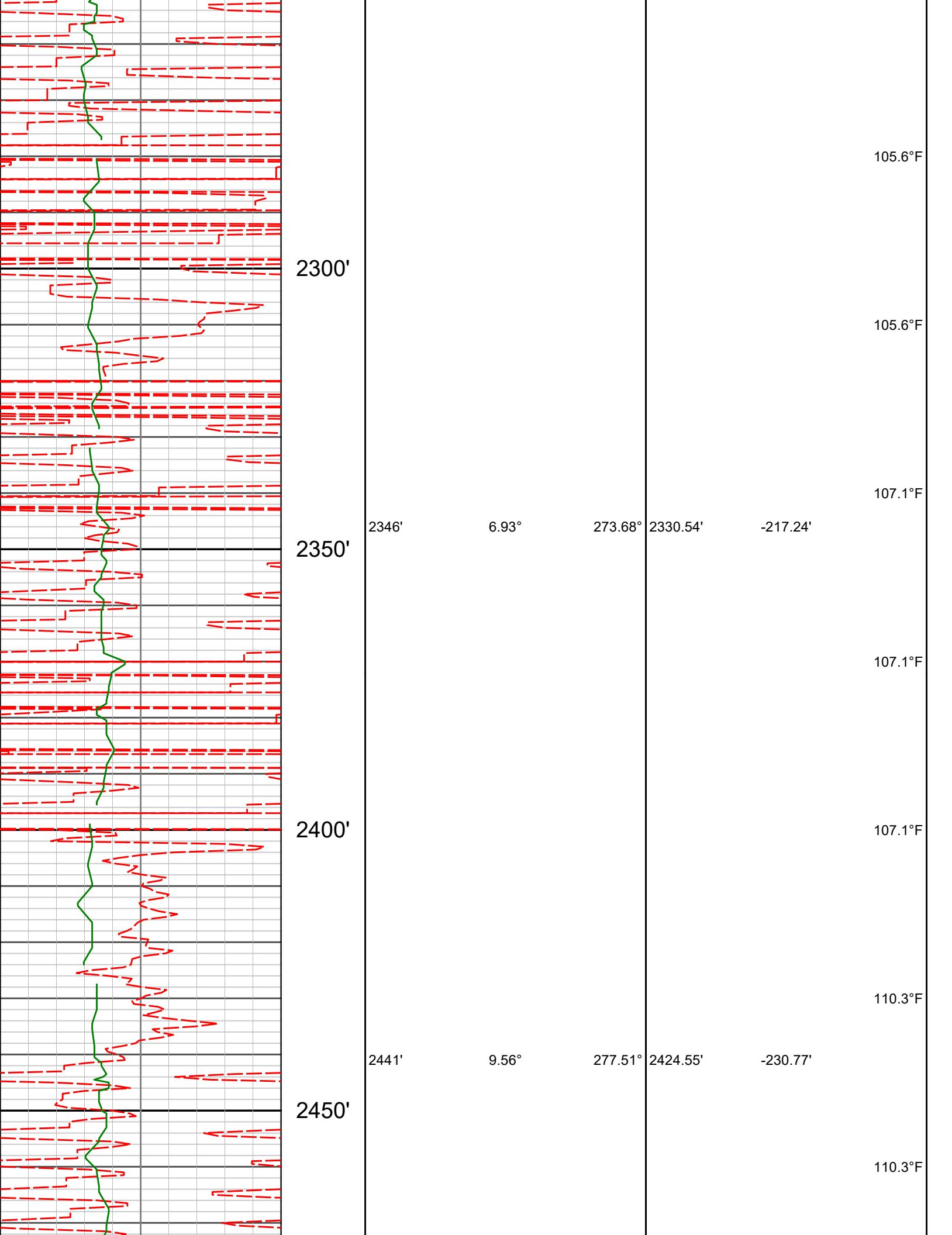
91.4°F

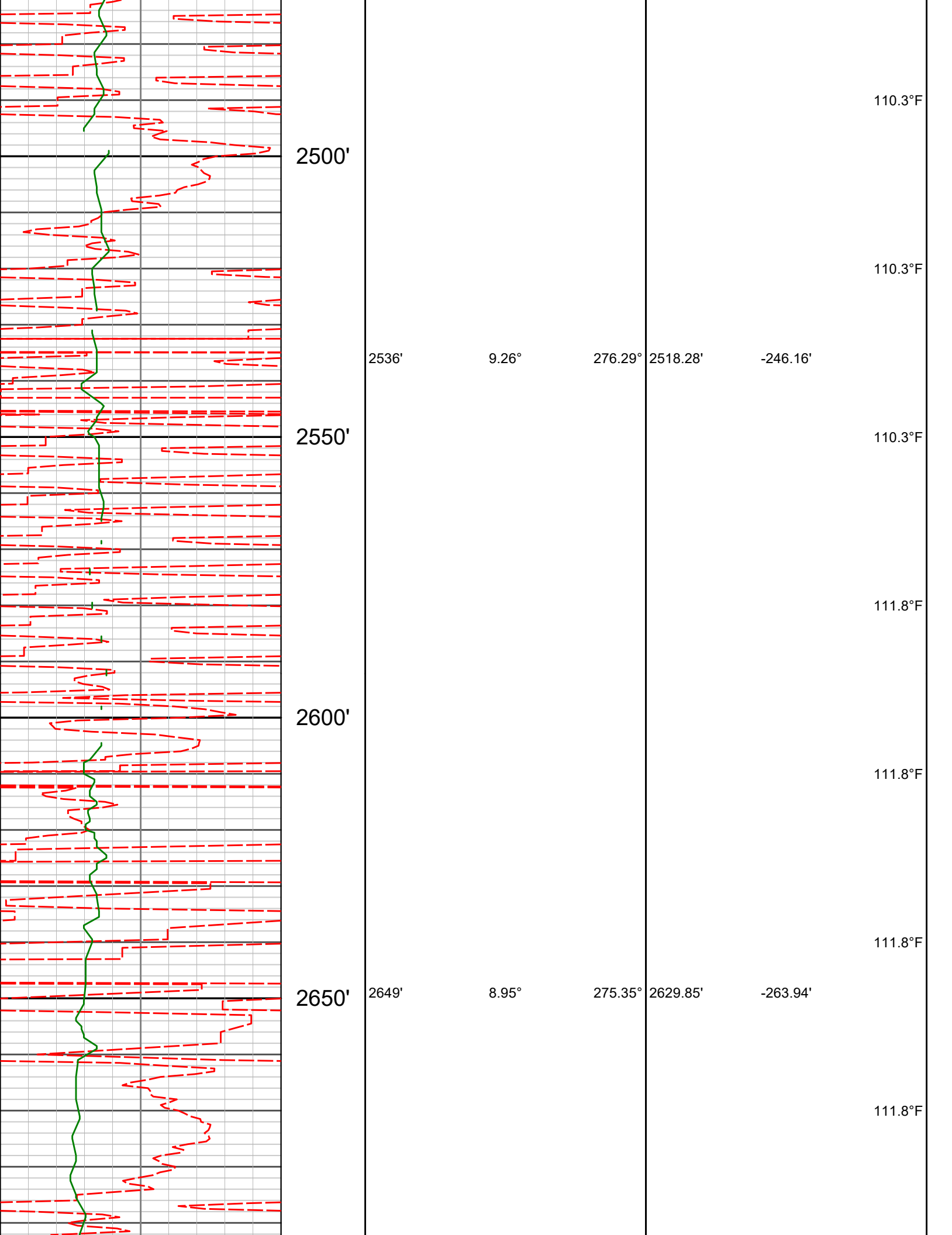
1800'

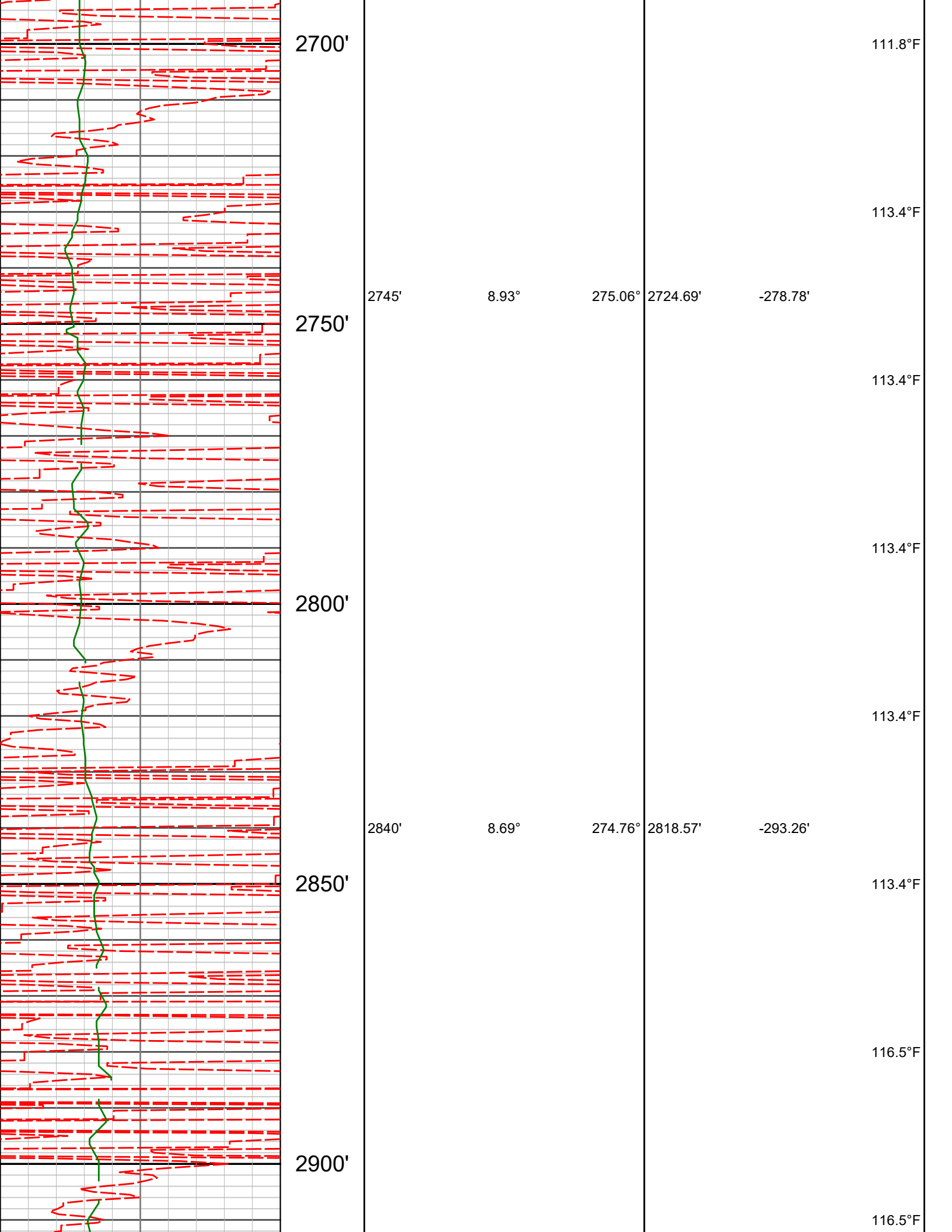
91.4°F

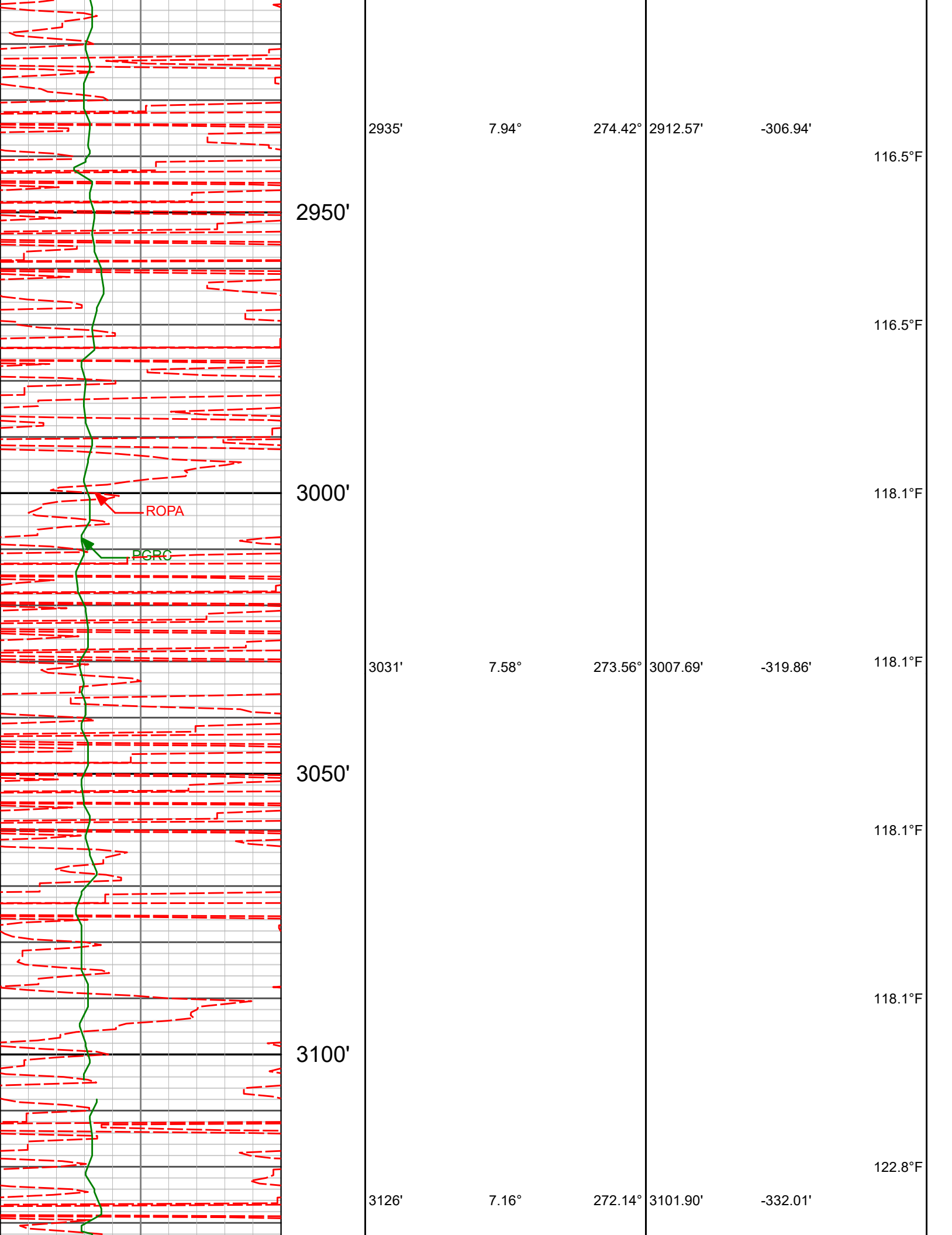


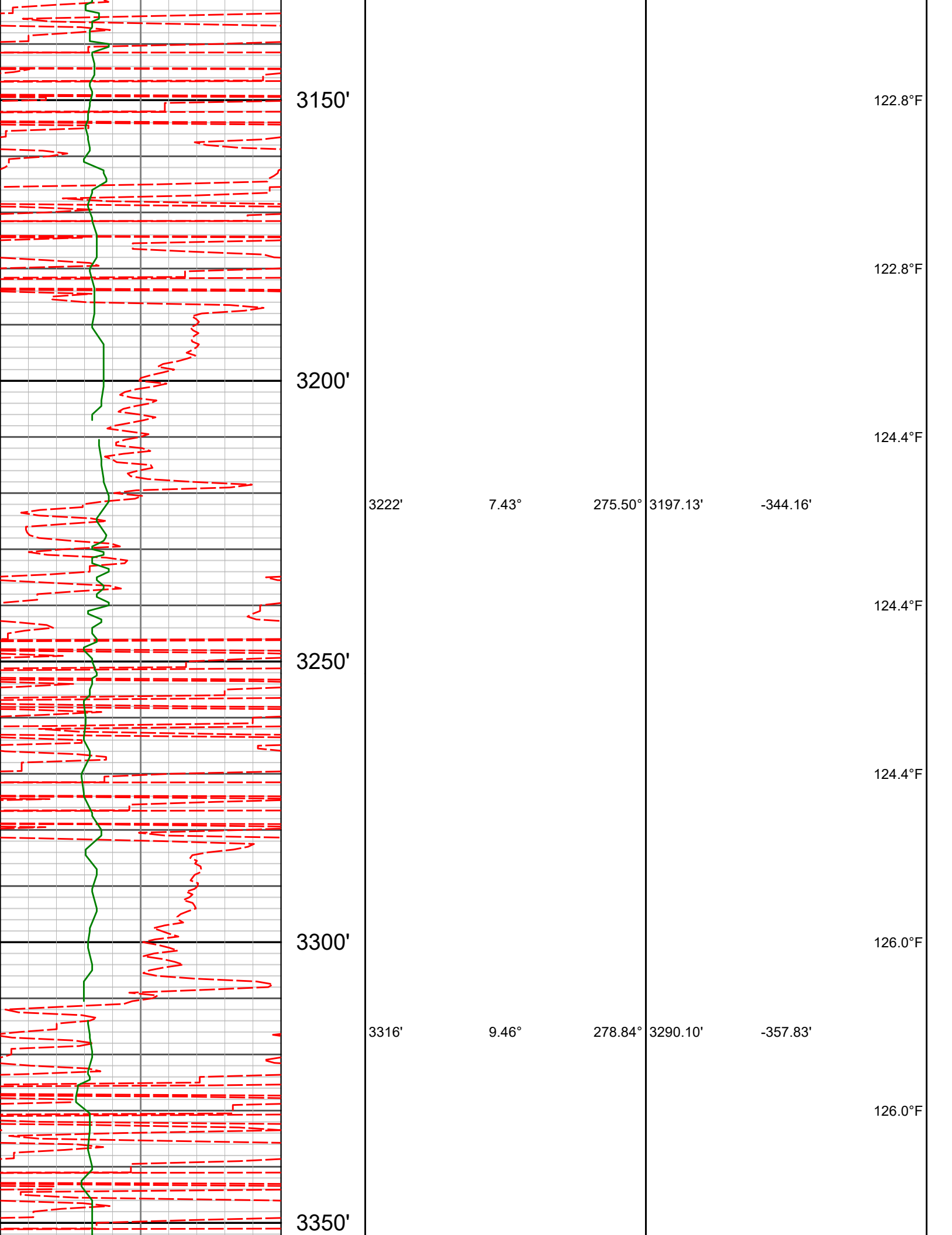


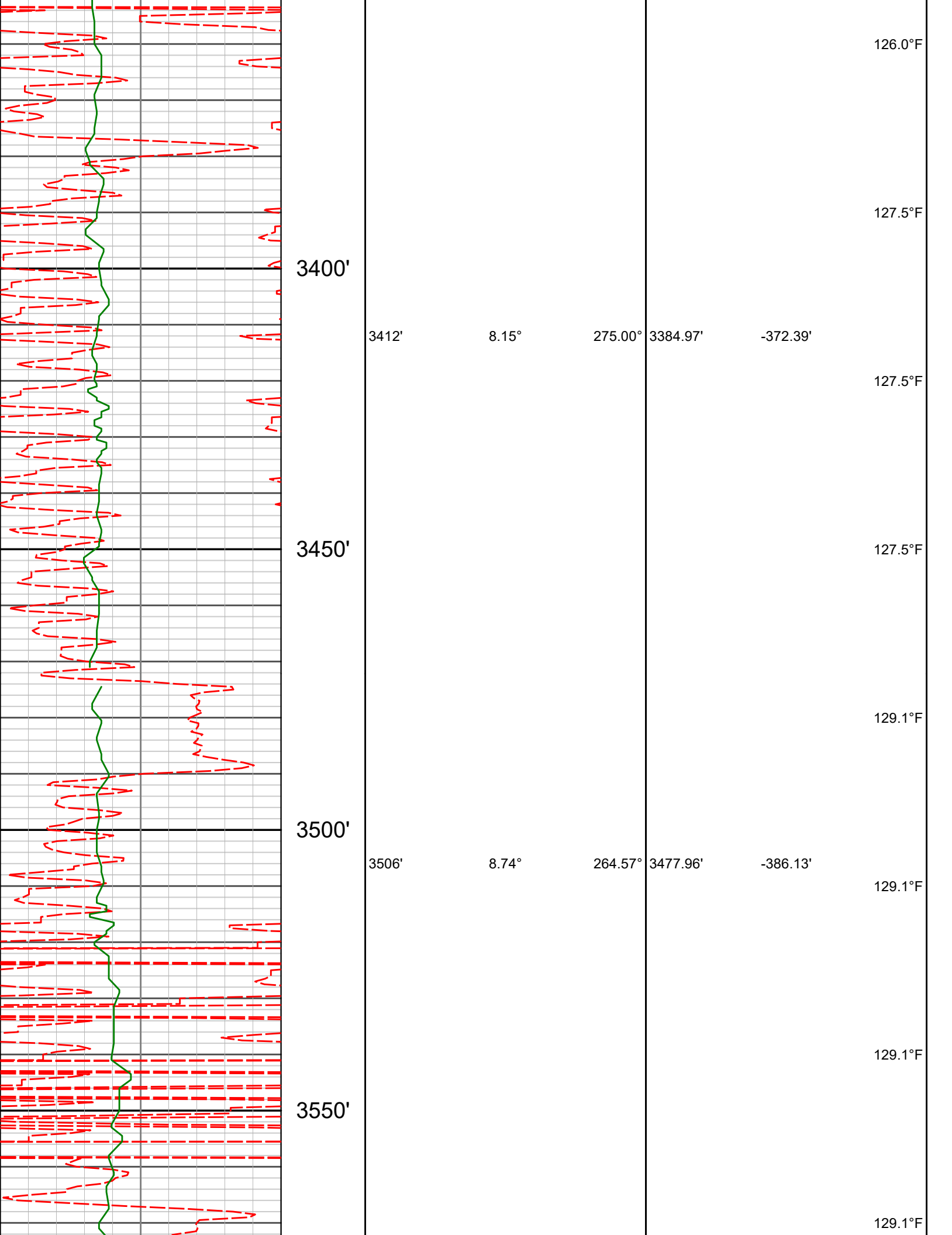


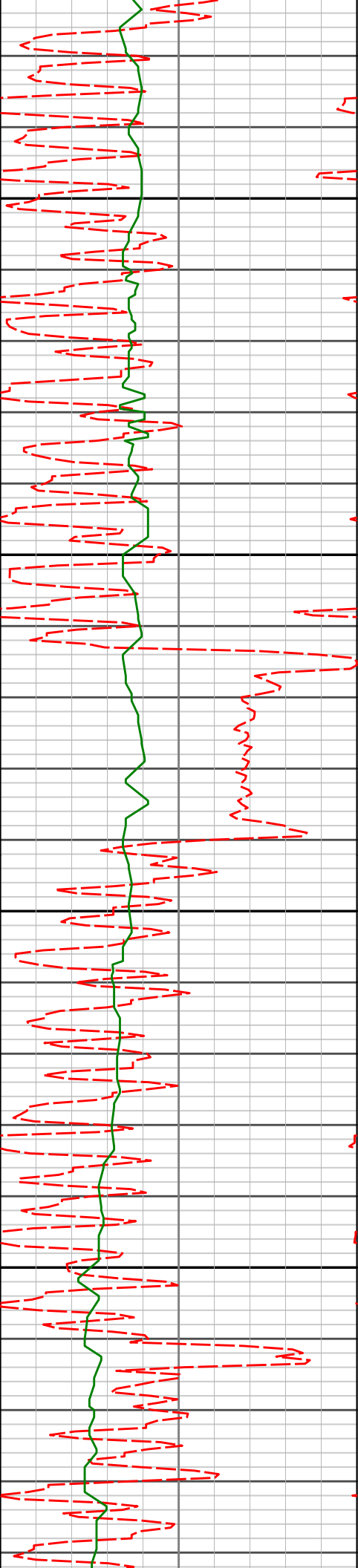












3600'

3601'

7.59°

260.54°

3571.99'

-399.52'

130.7°F

3650'

130.7°F

130.7°F

3700'

3697'

8.13°

270.86°

3667.10'

-412.57'

130.7°F

130.7°F

3750'

133.8°F

133.8°F

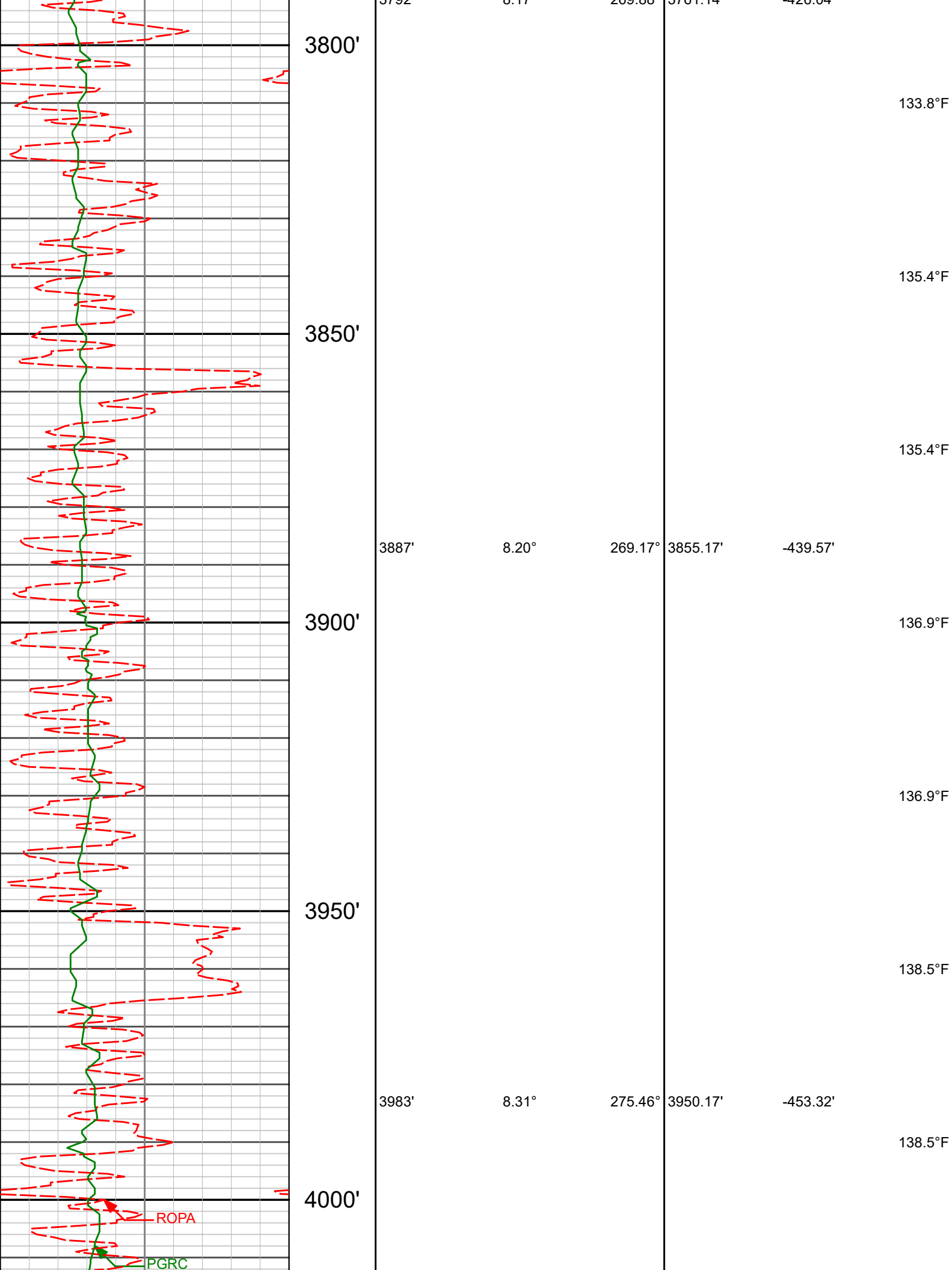
3702'

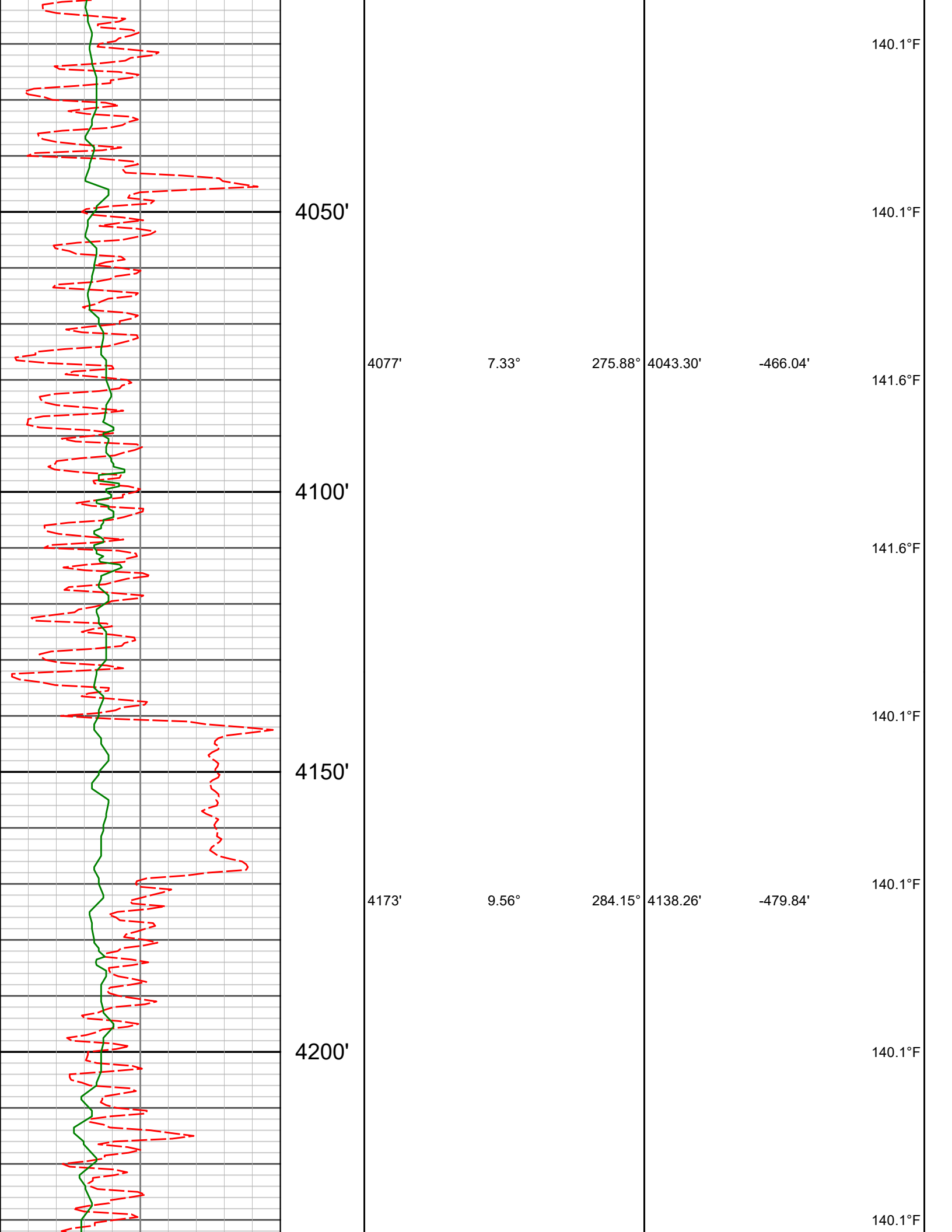
8.17°

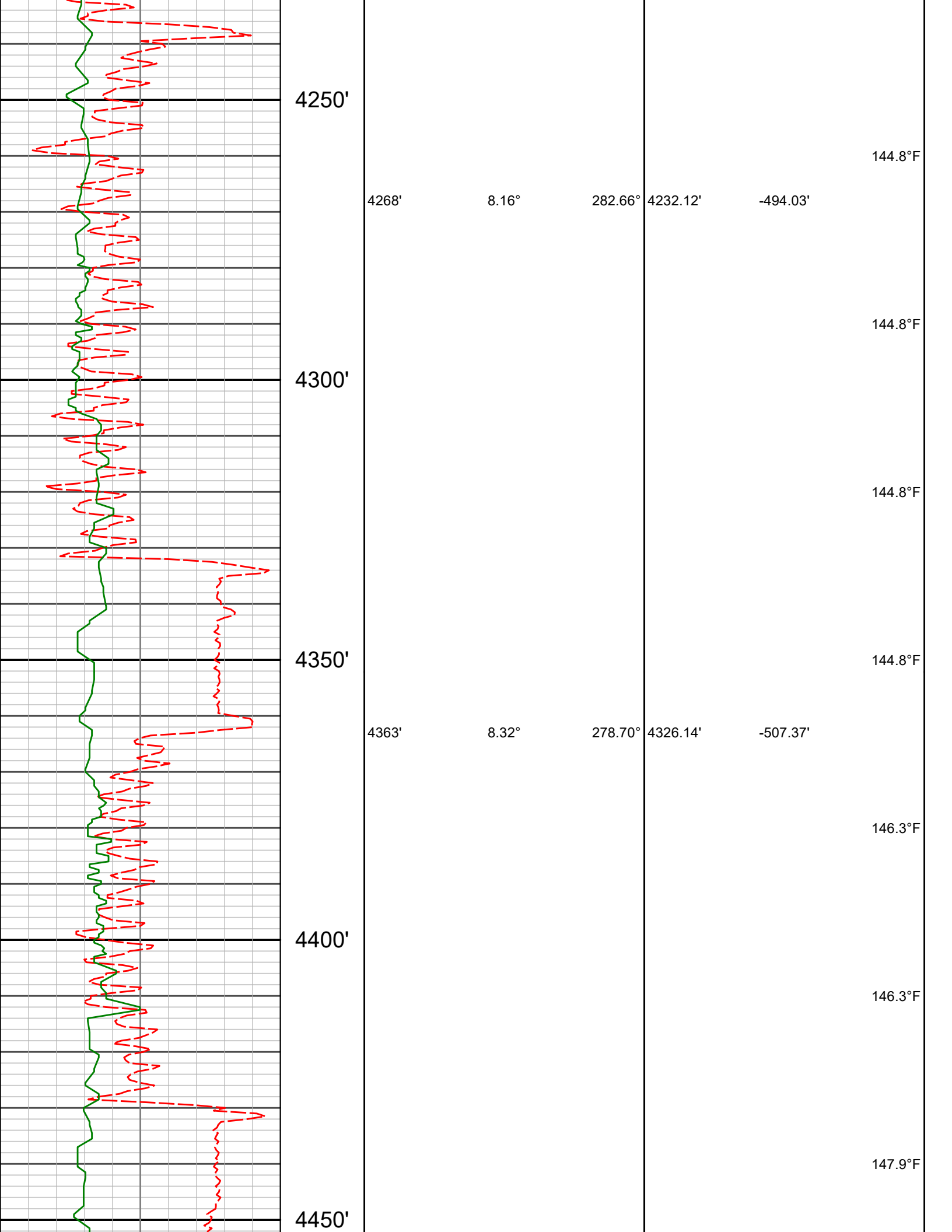
260.88°

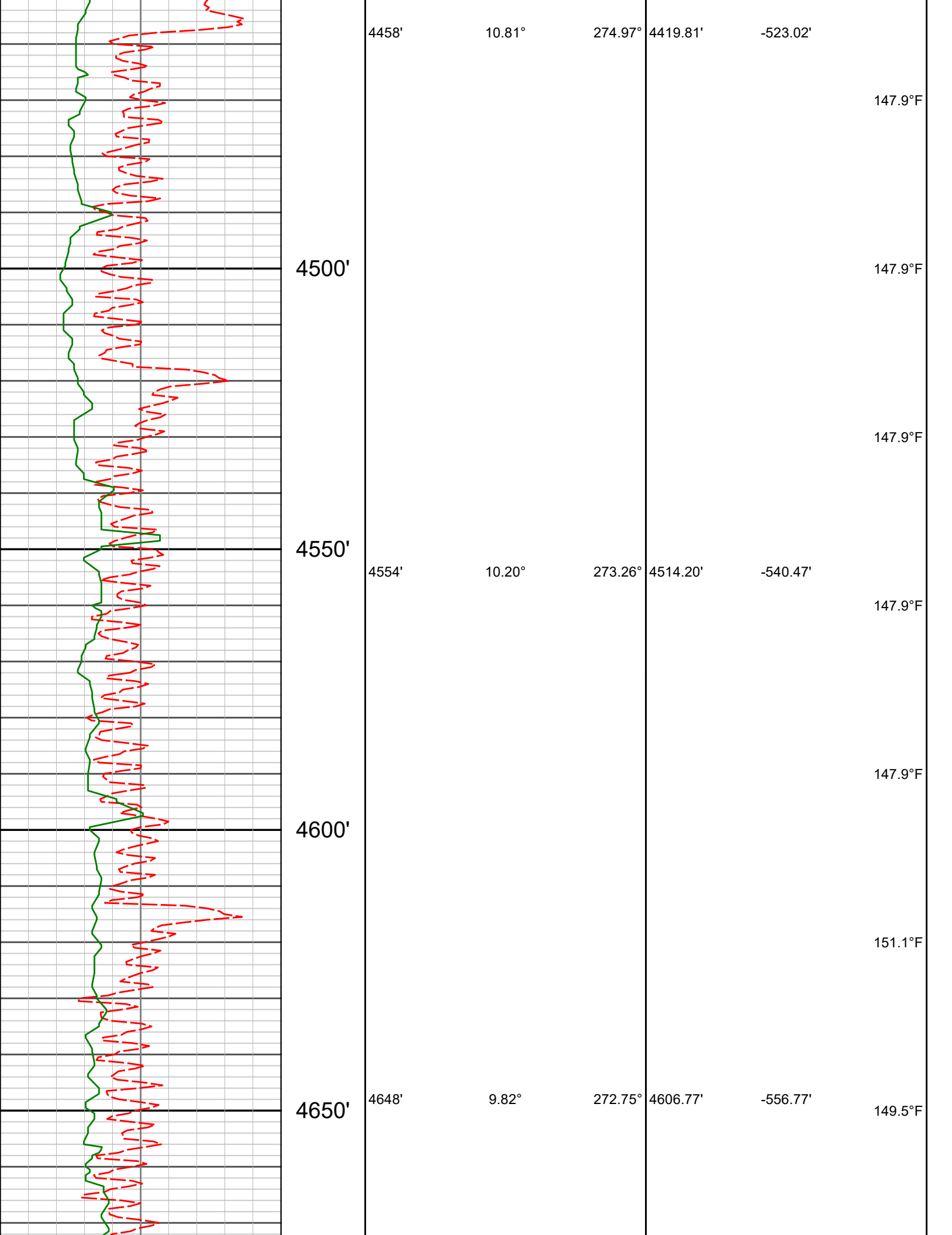
3761.11'

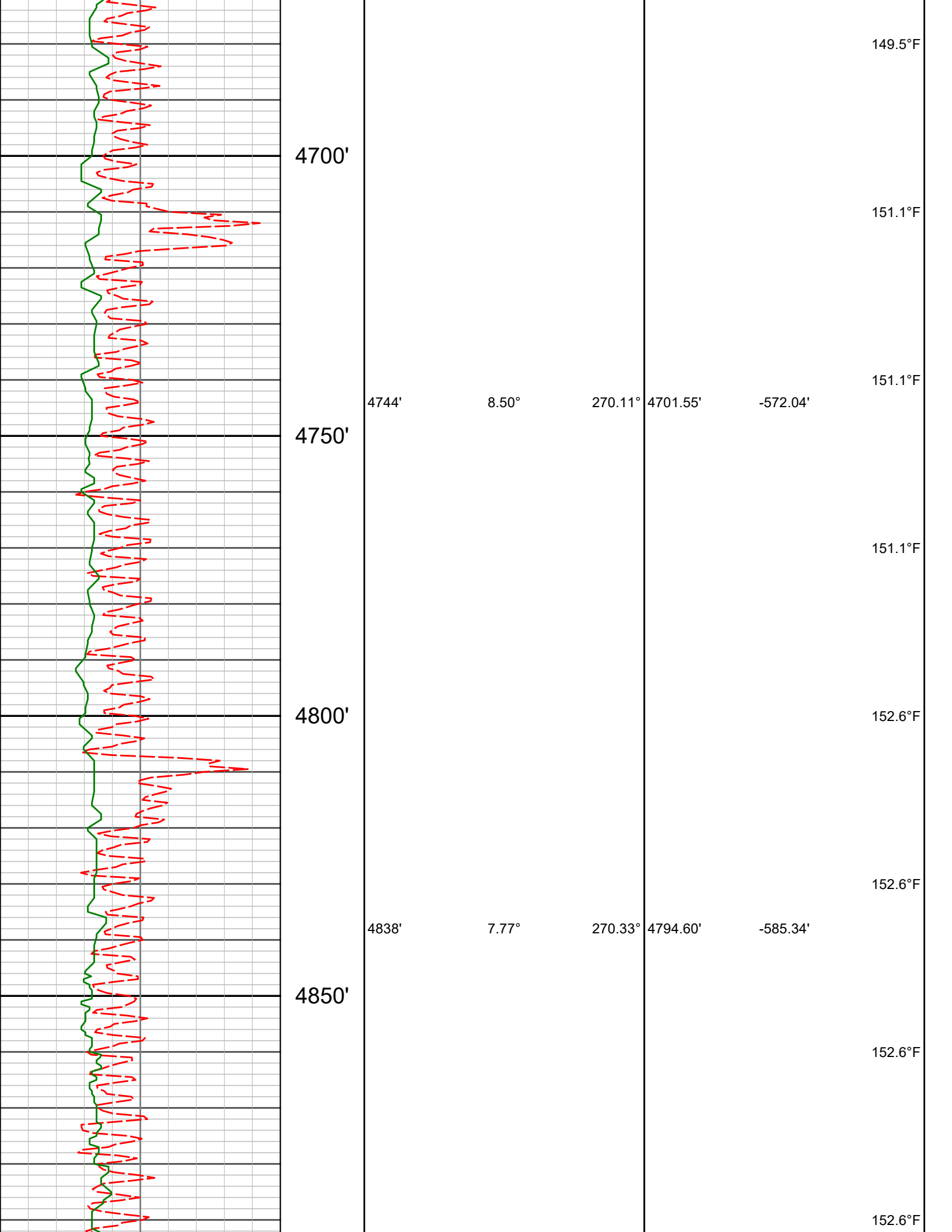
-426.04'

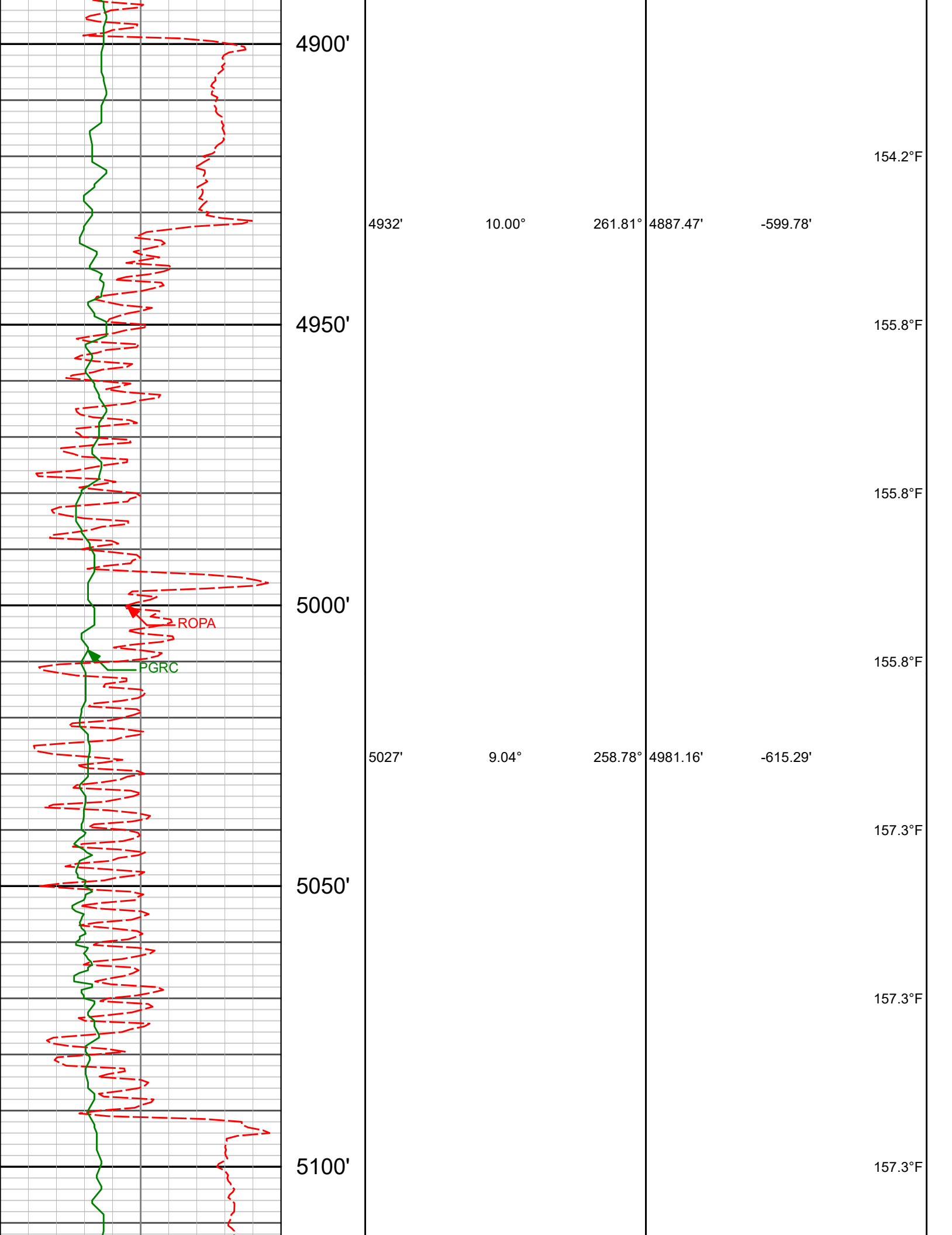


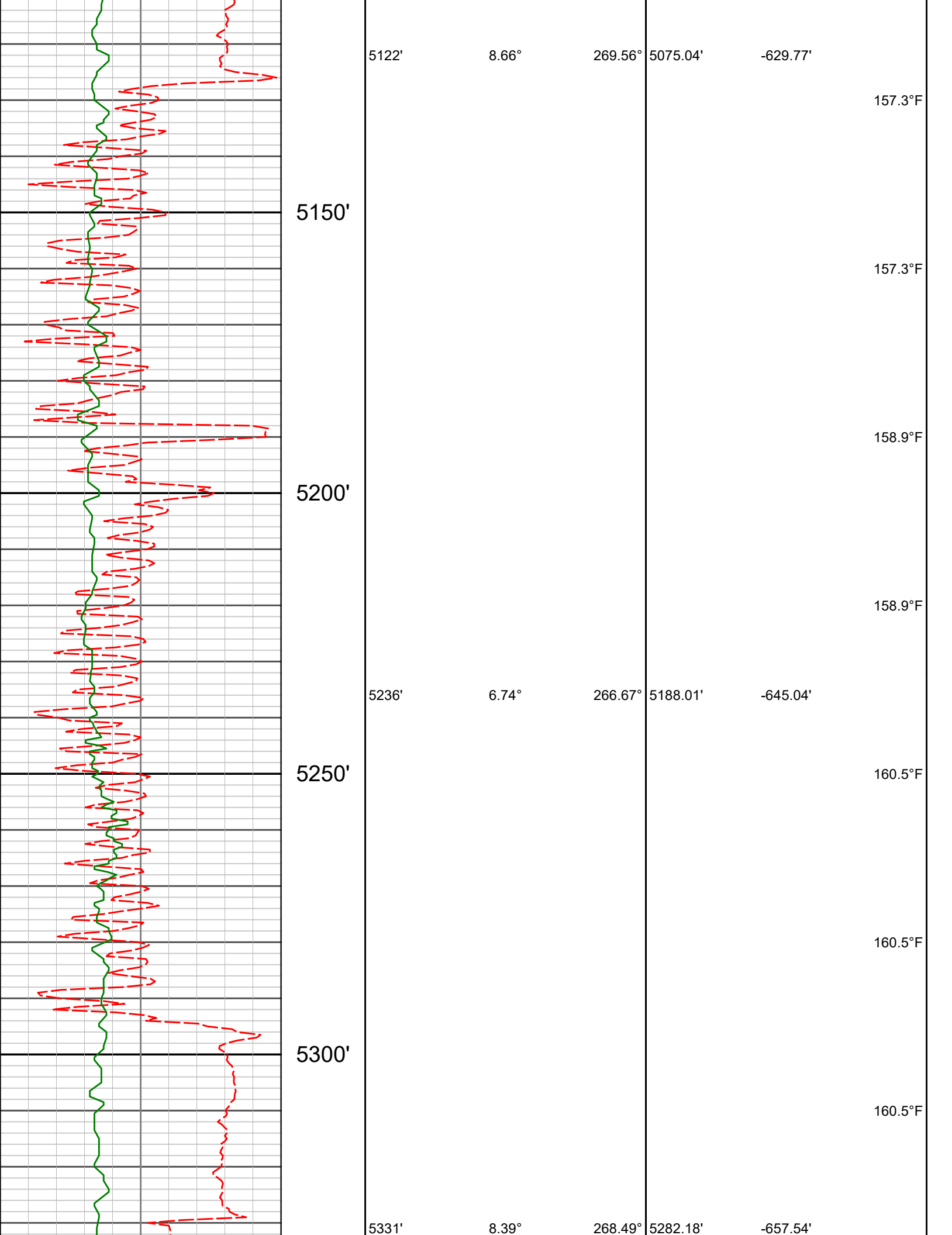


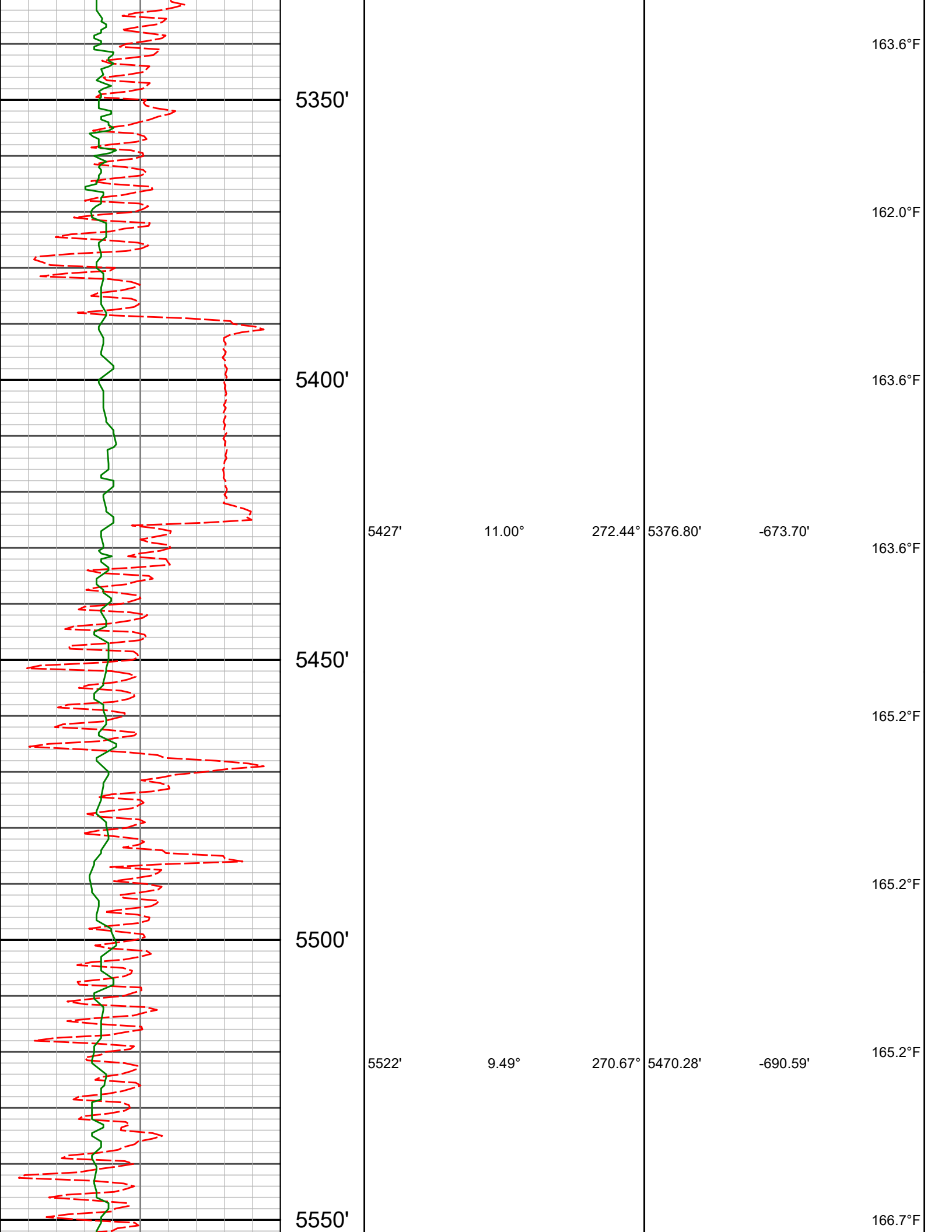


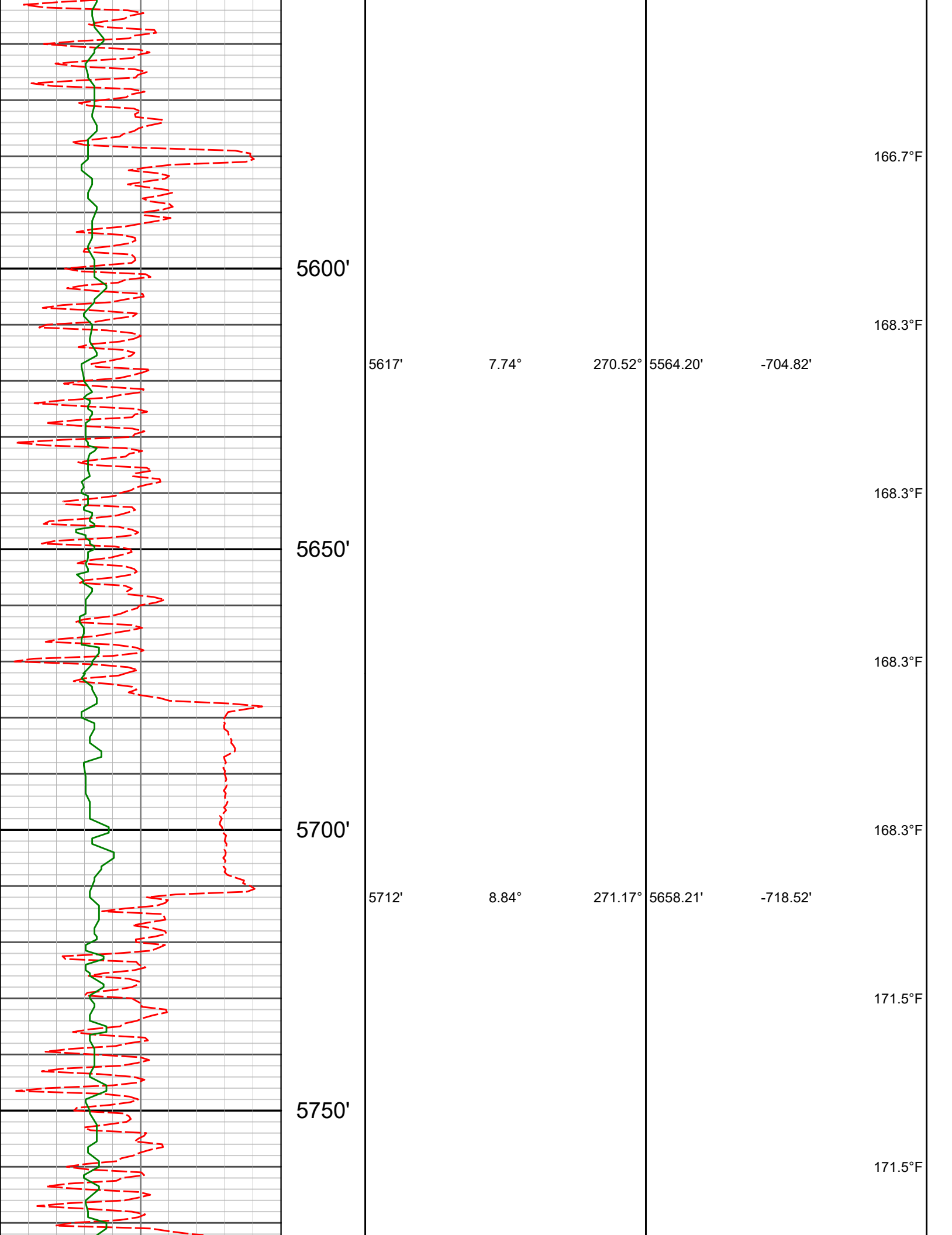


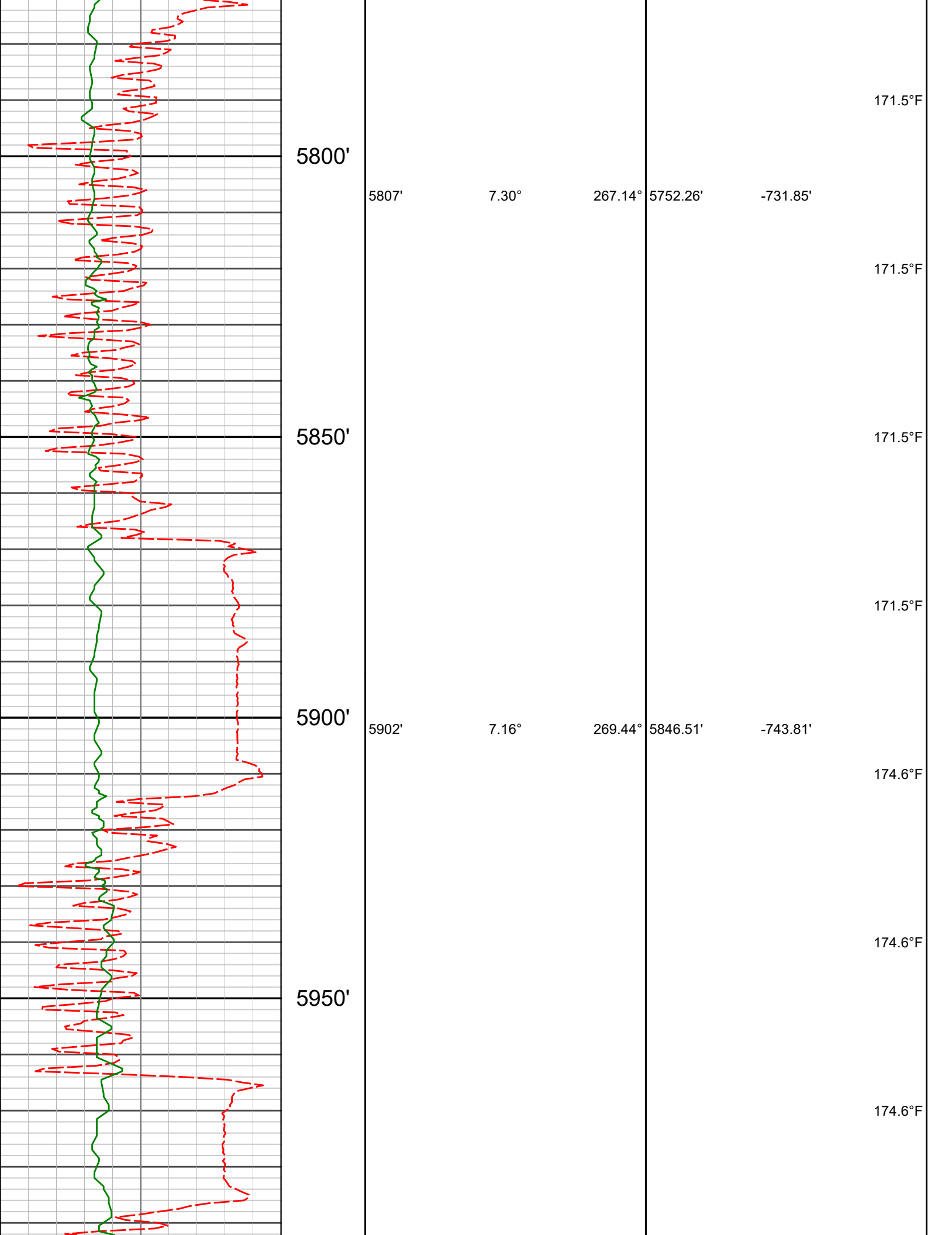


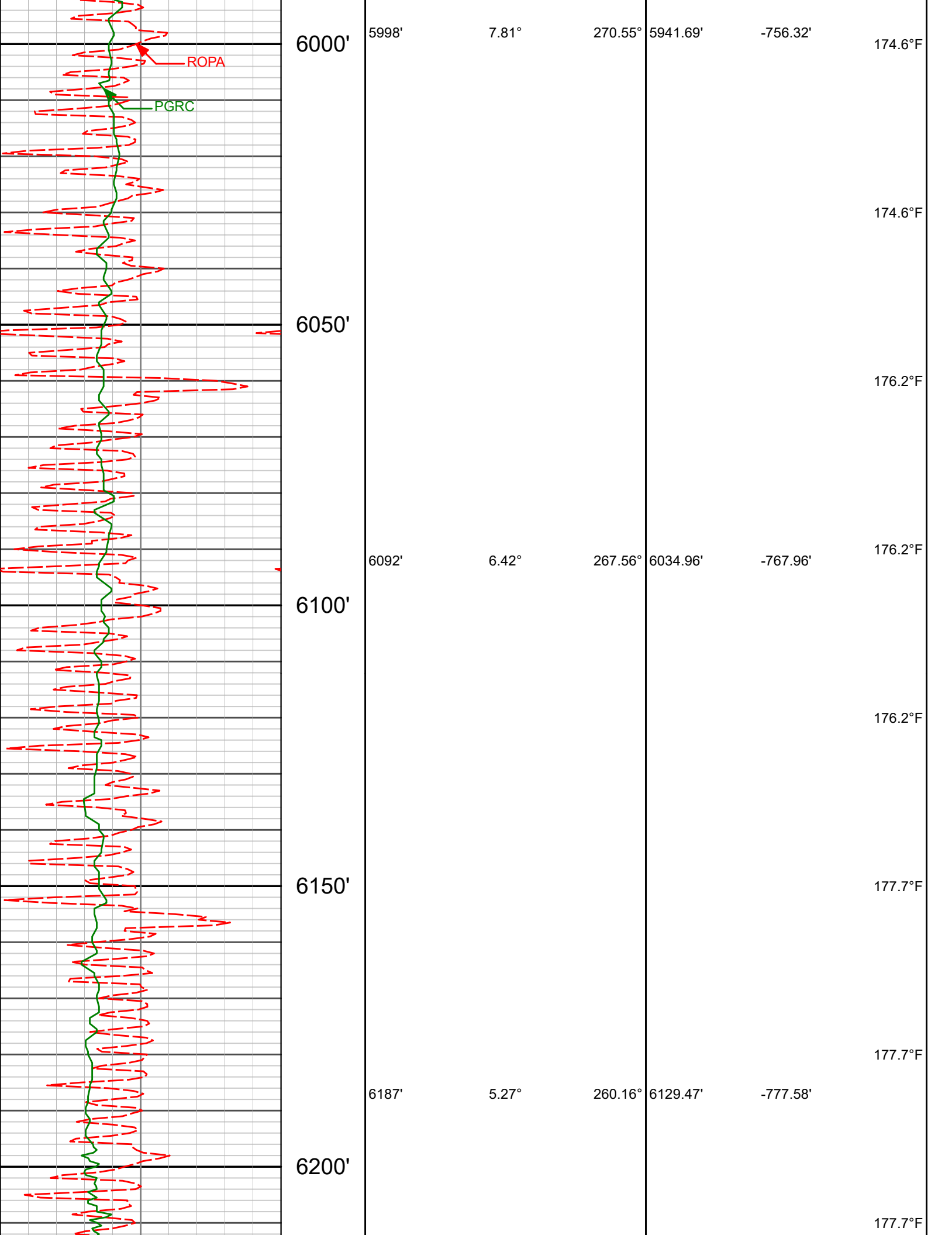


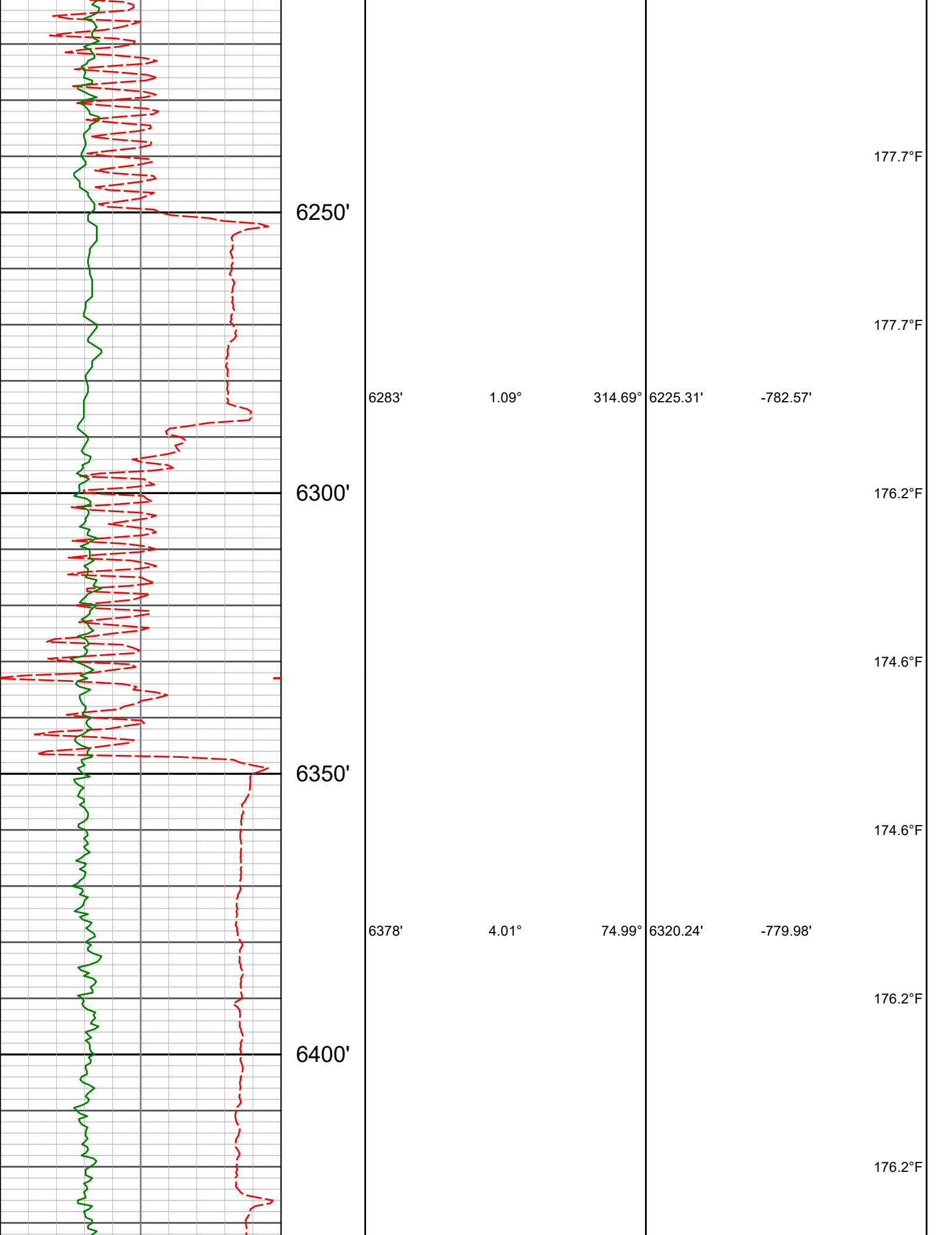


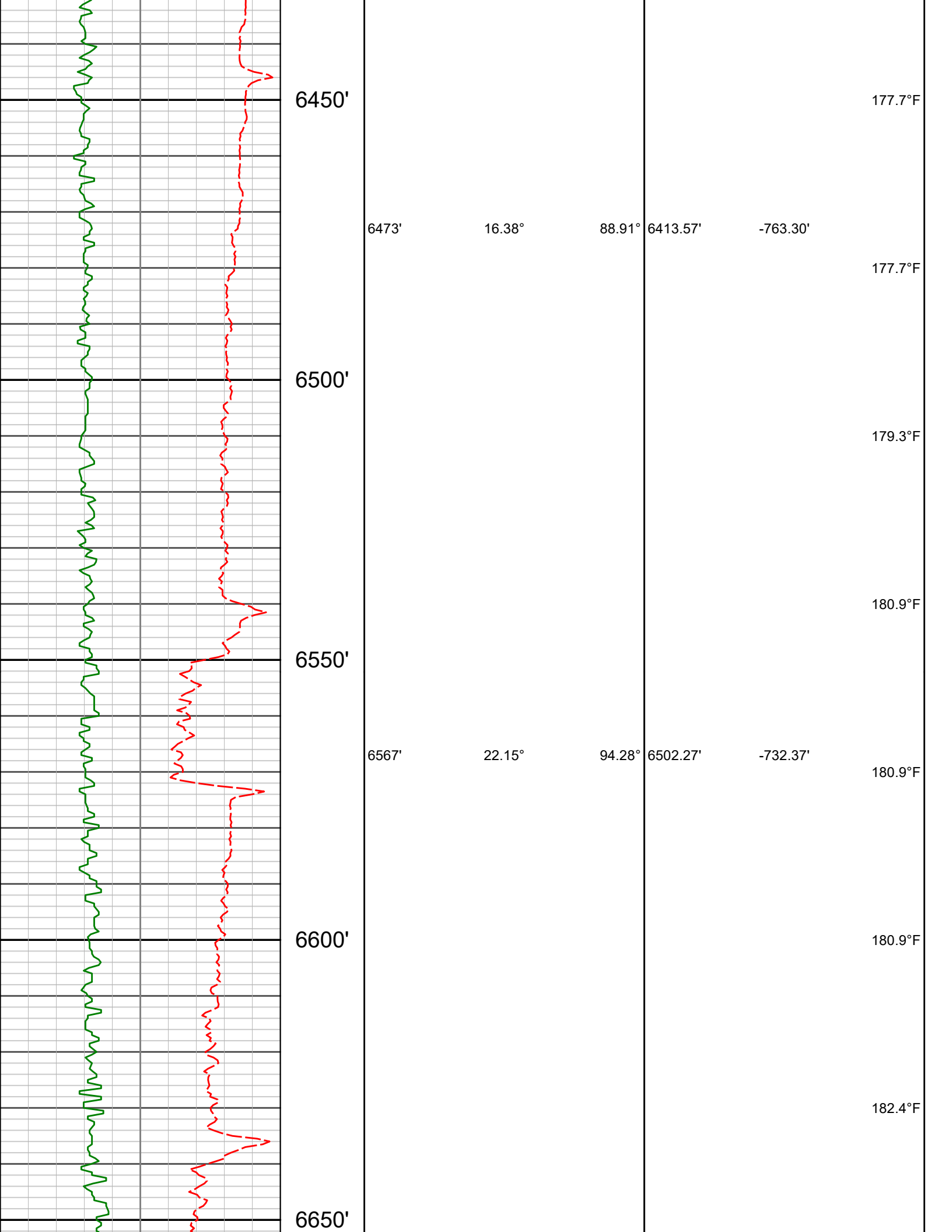


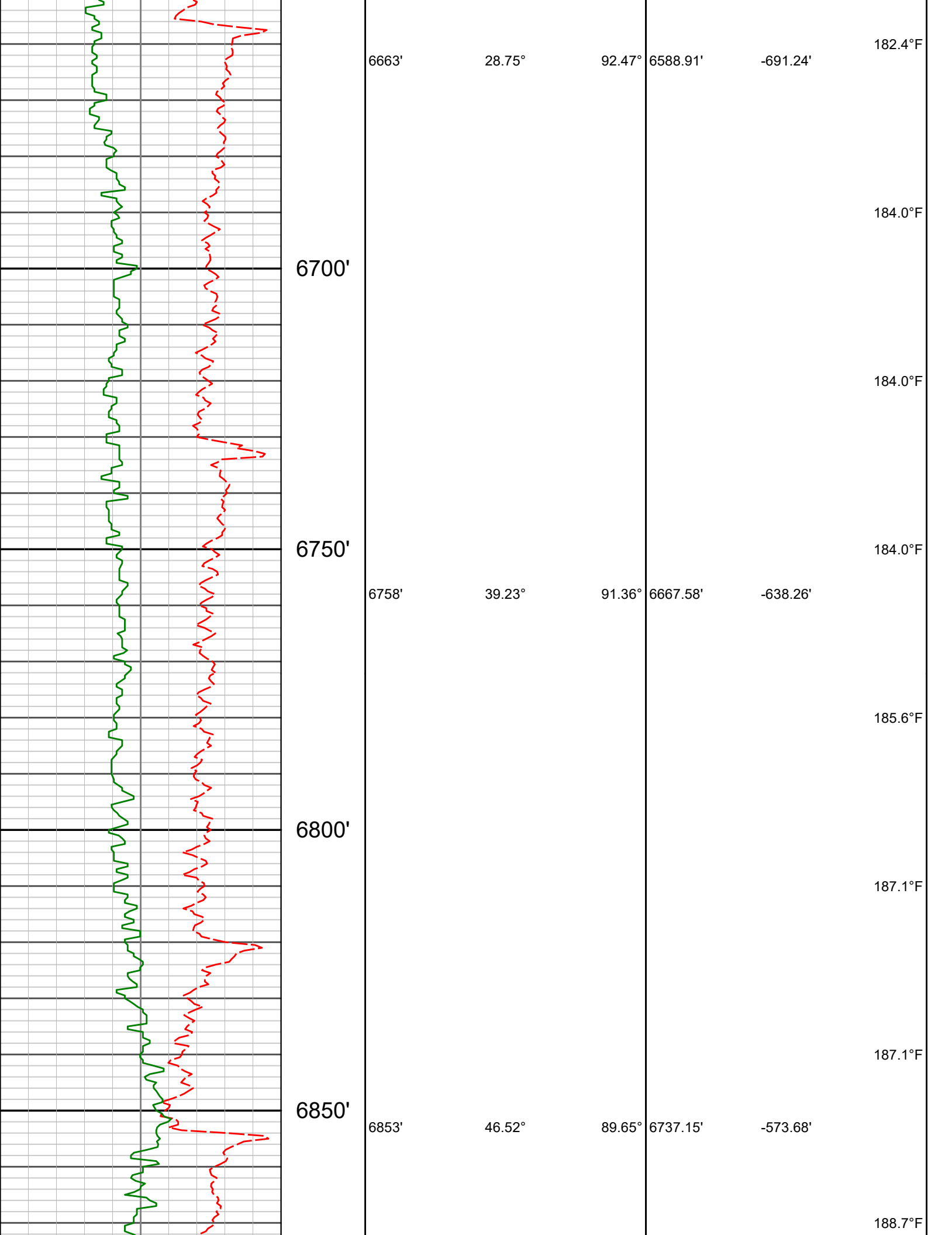


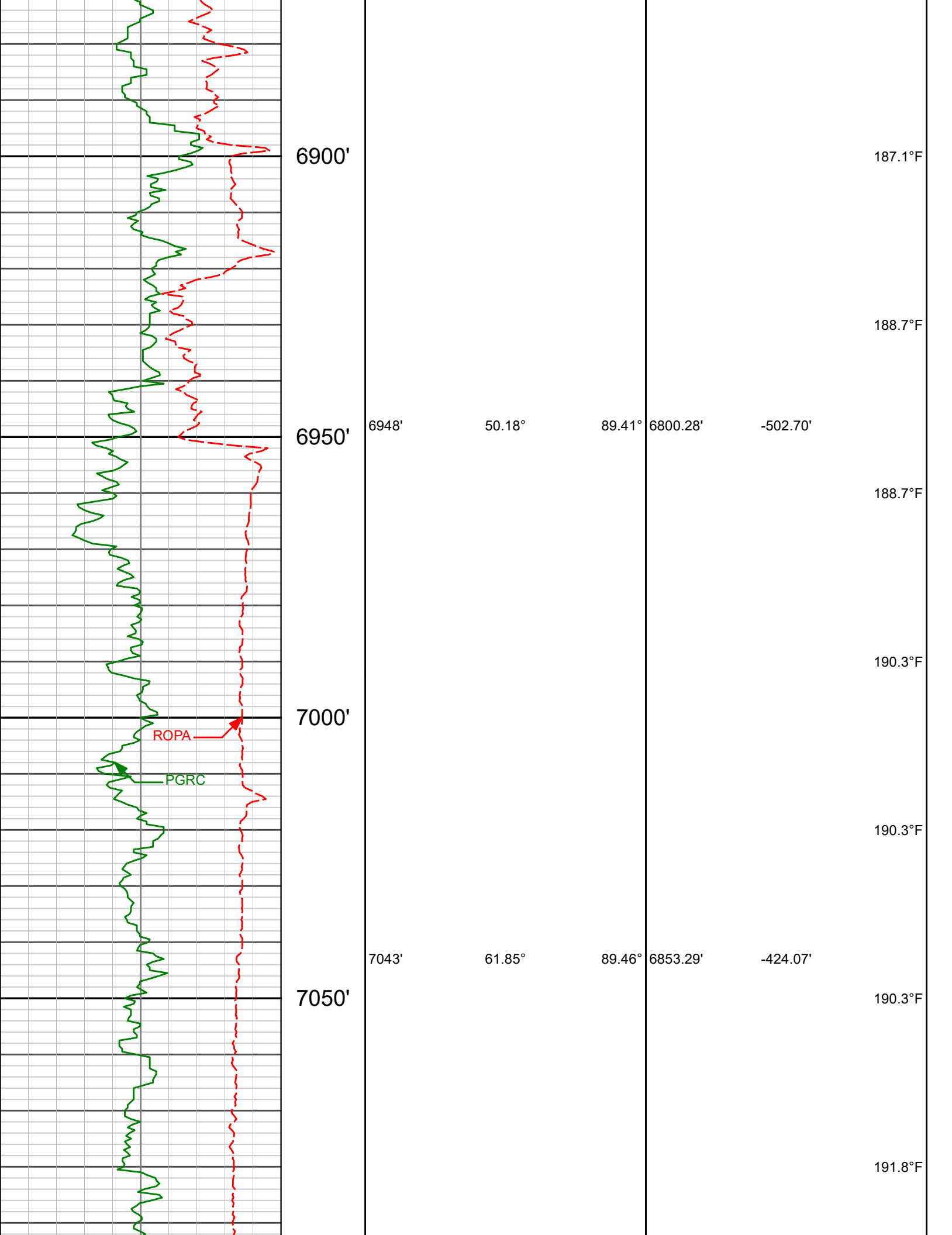


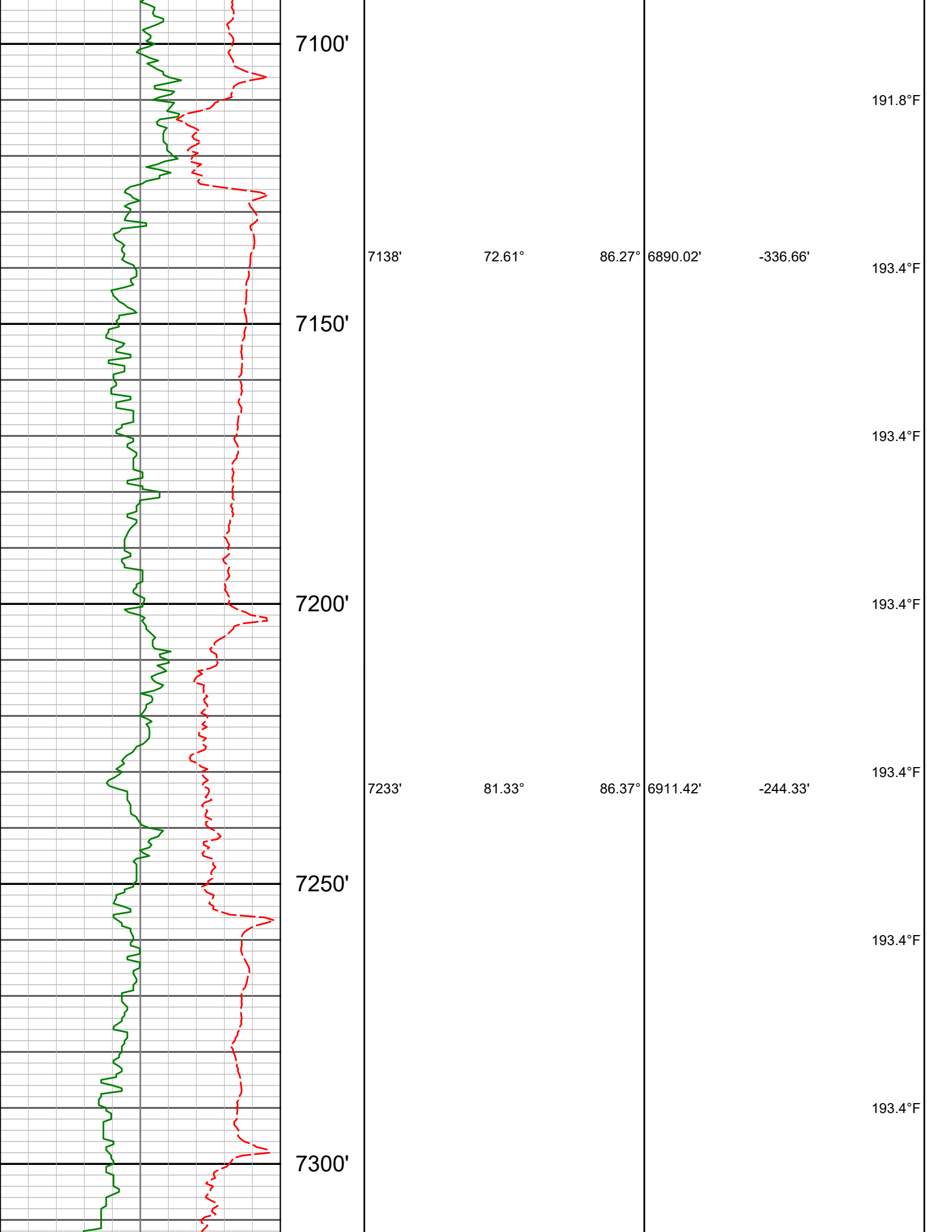


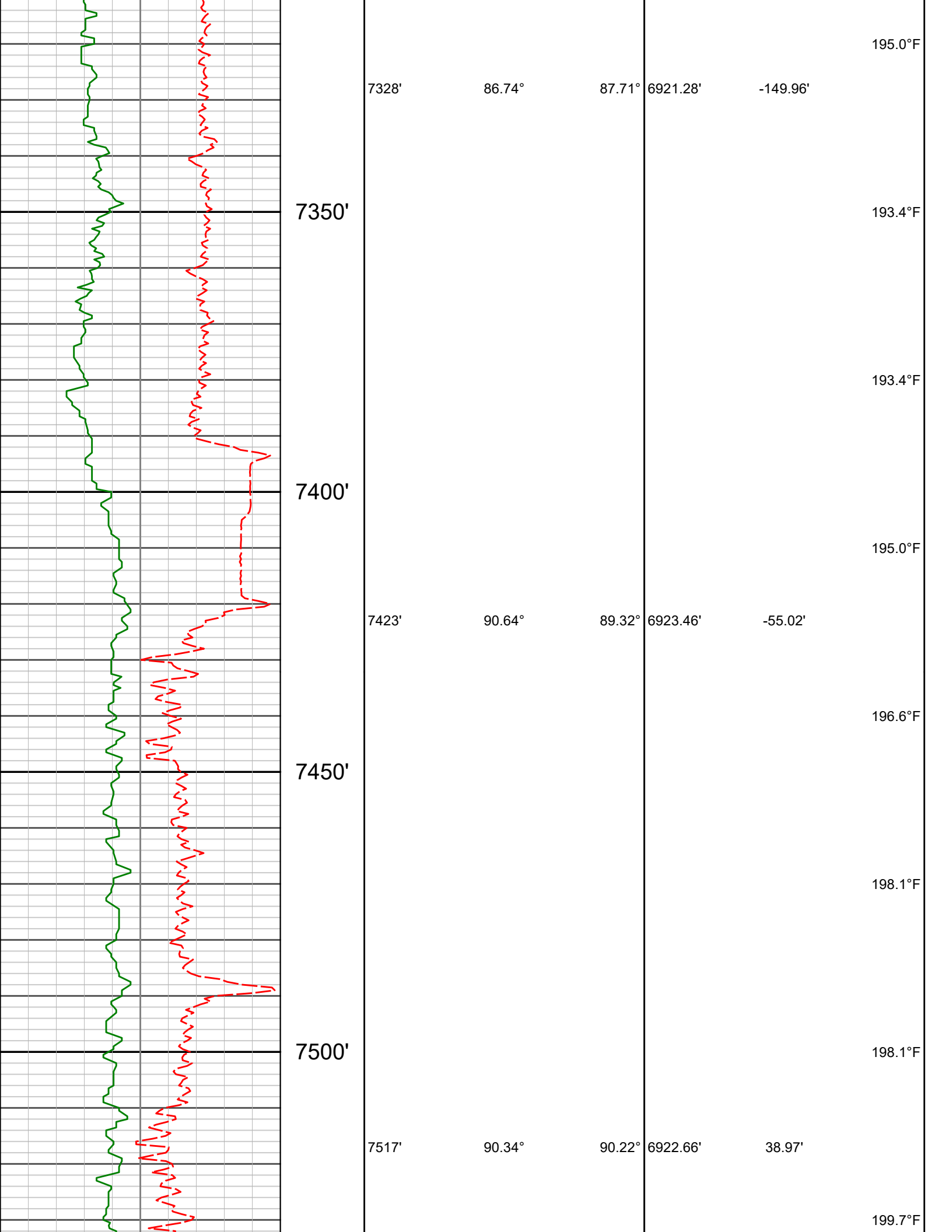


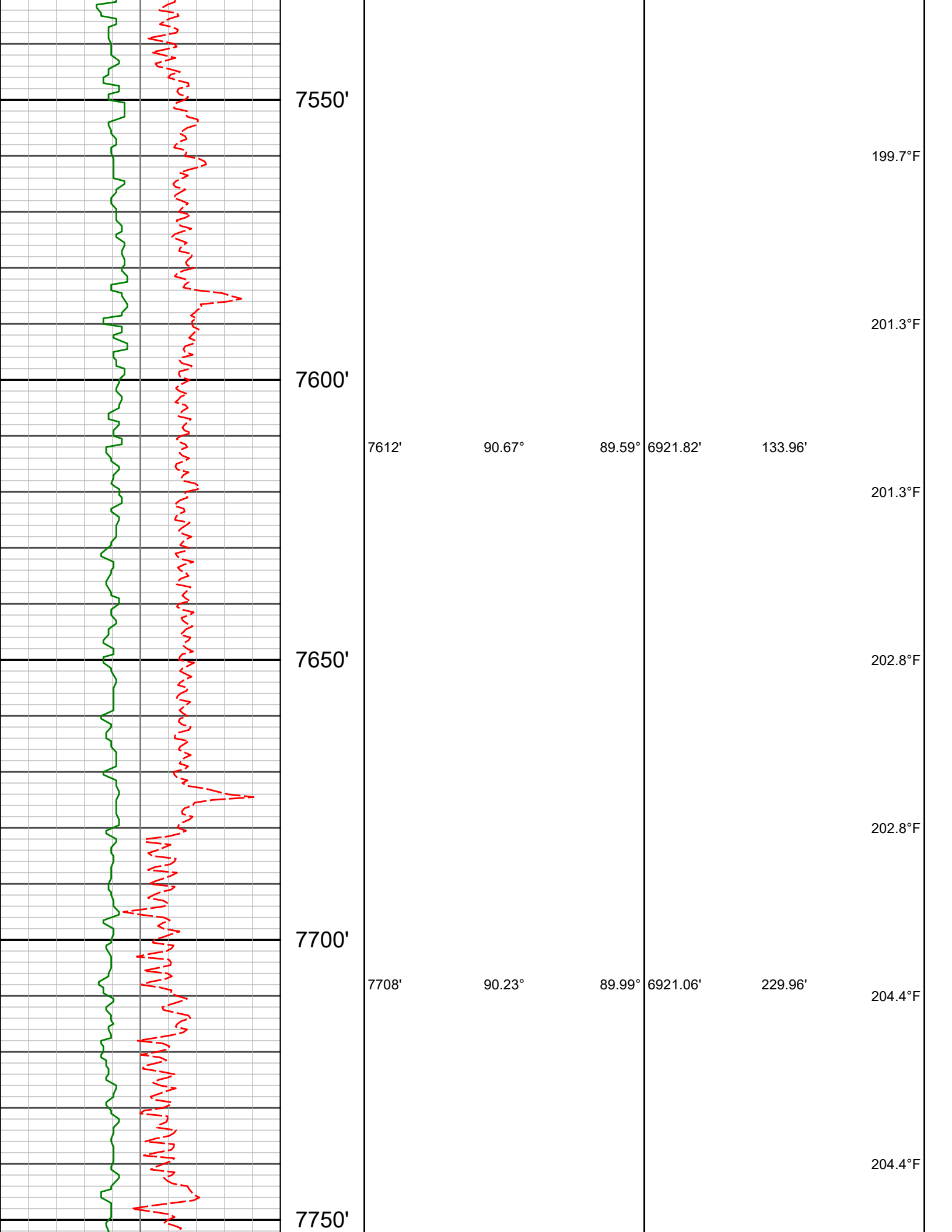


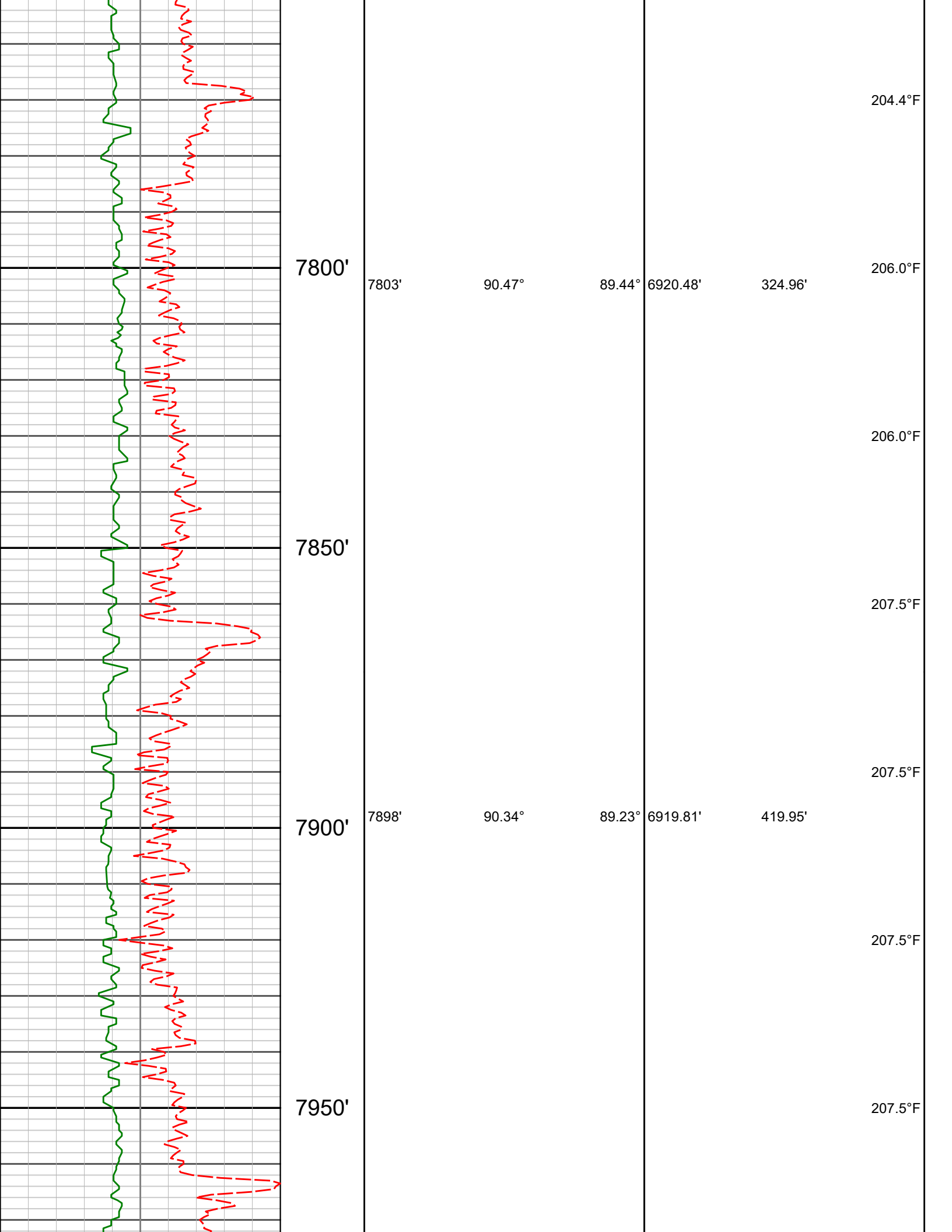


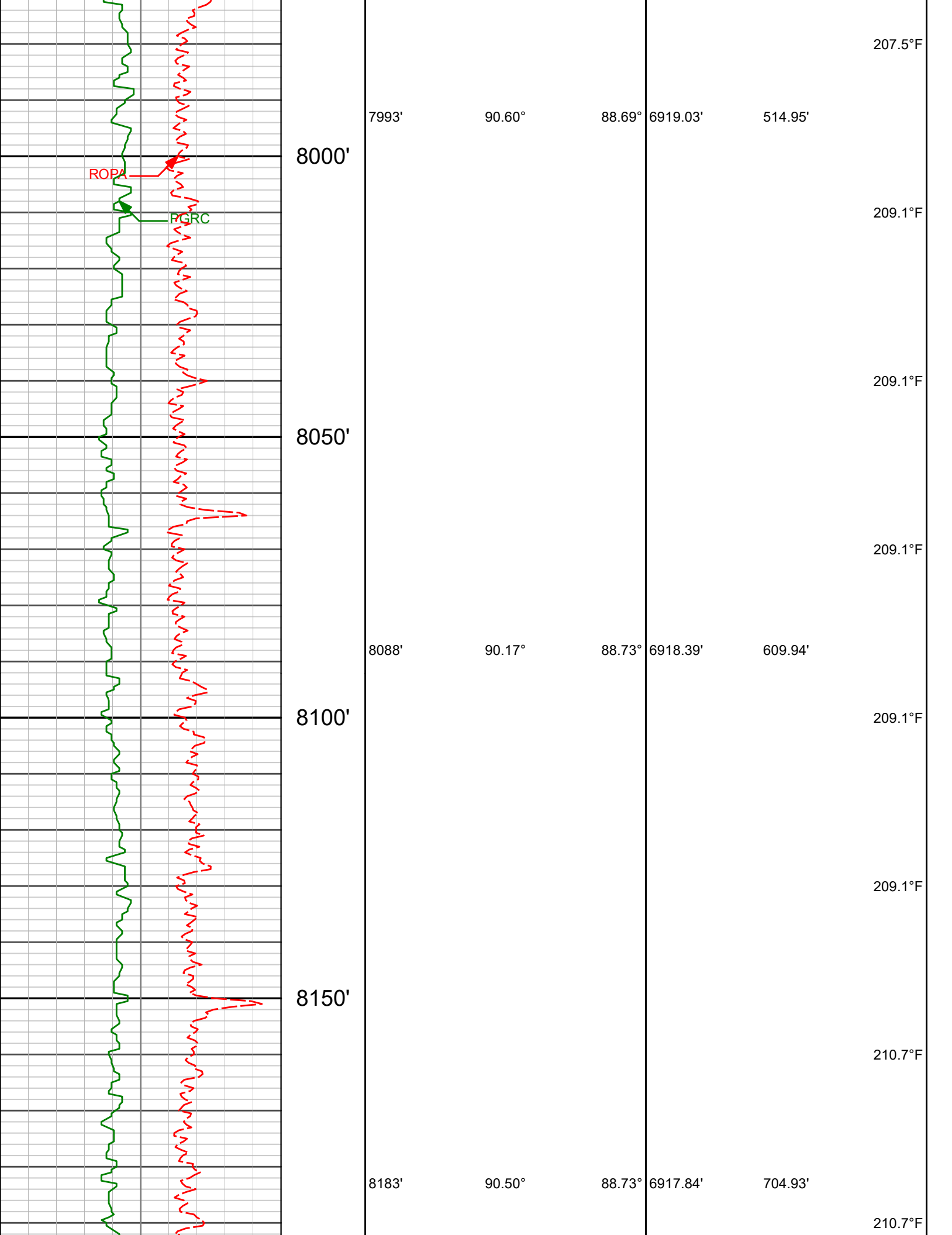


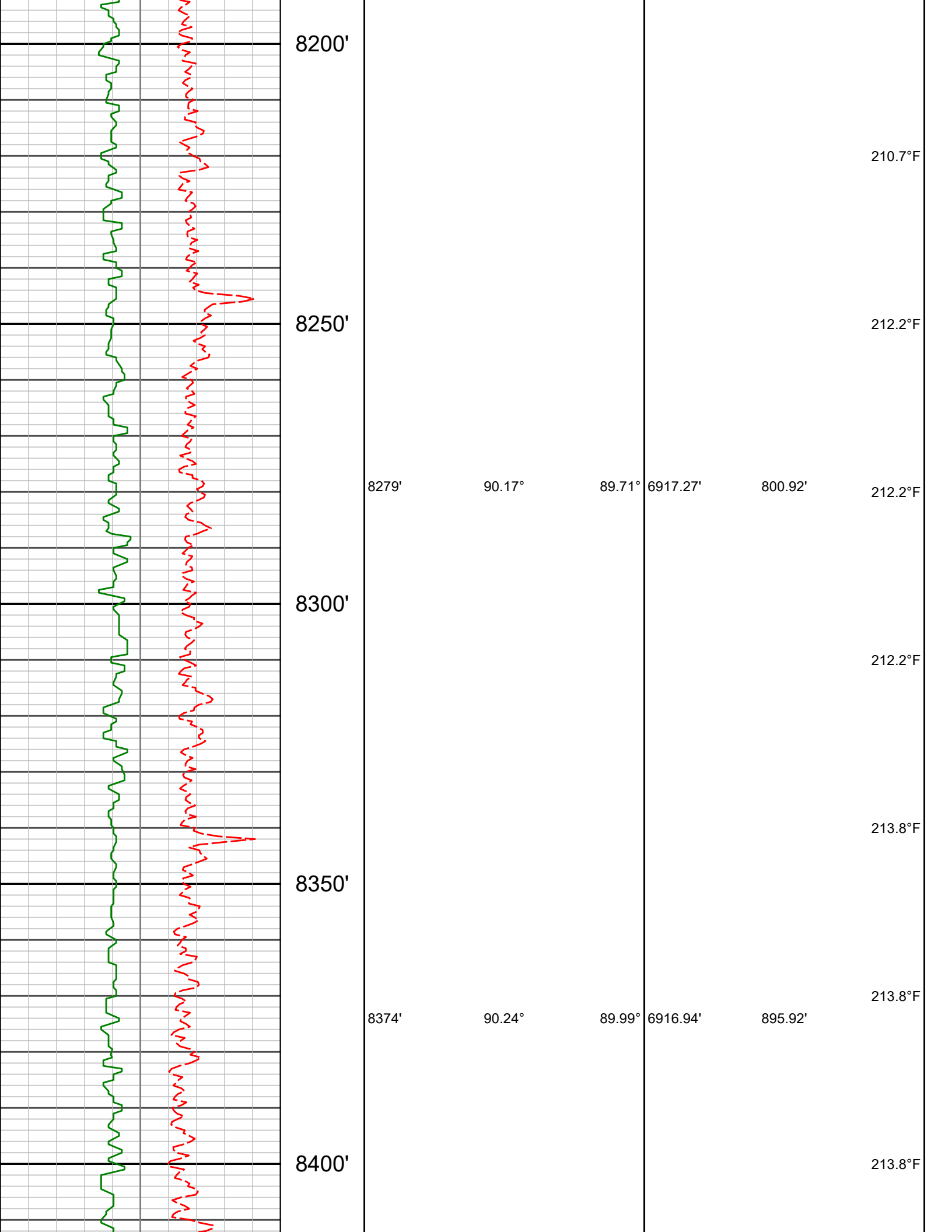


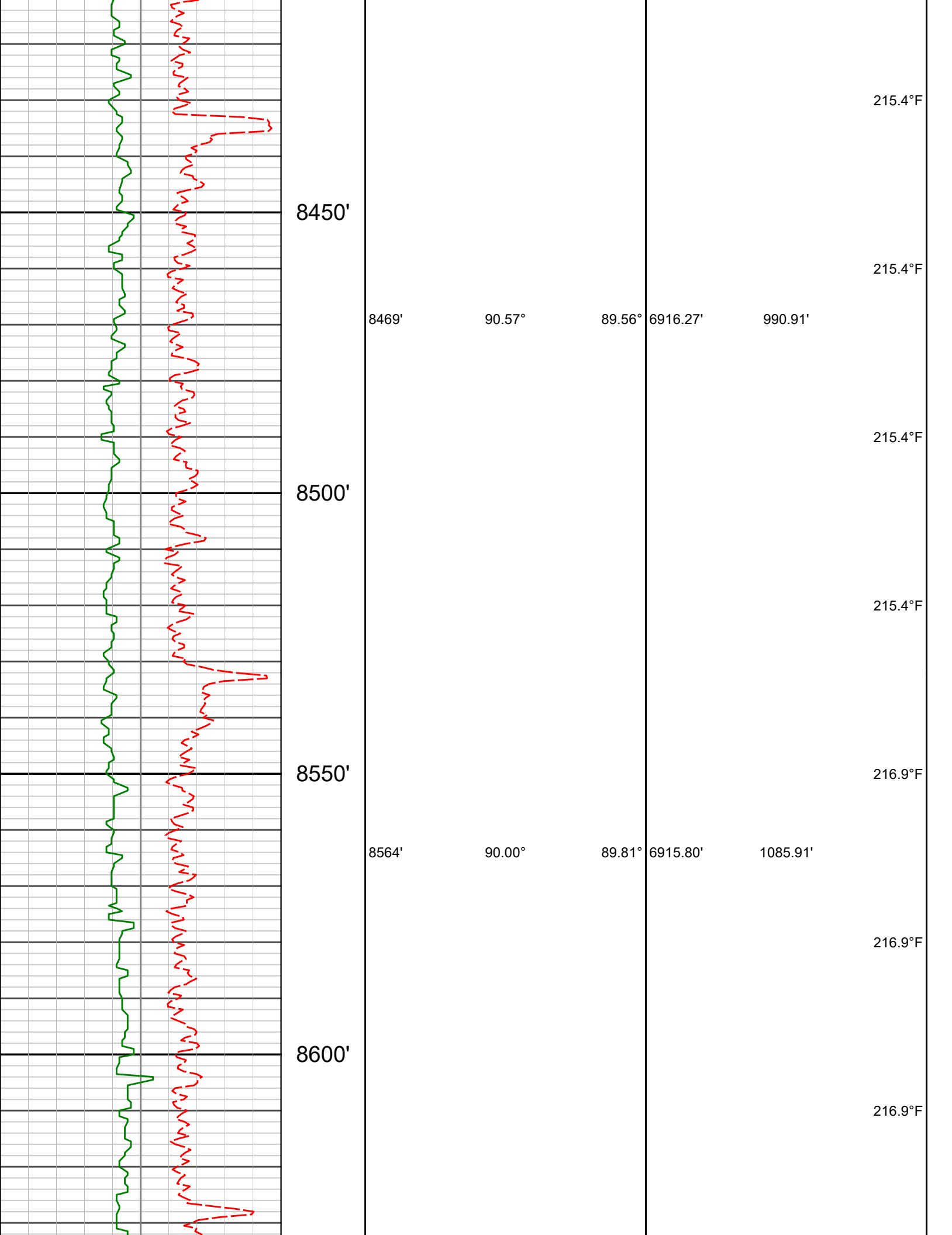


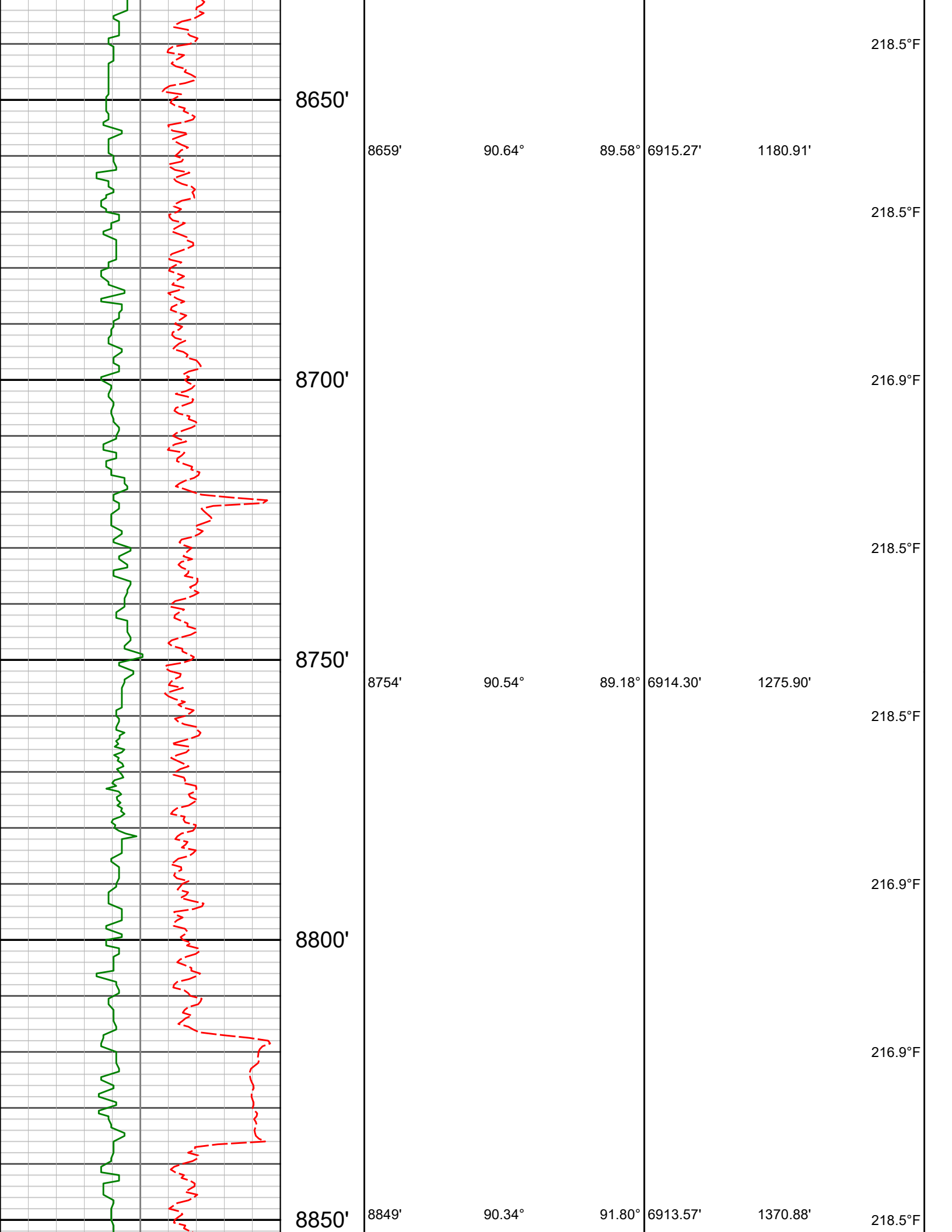


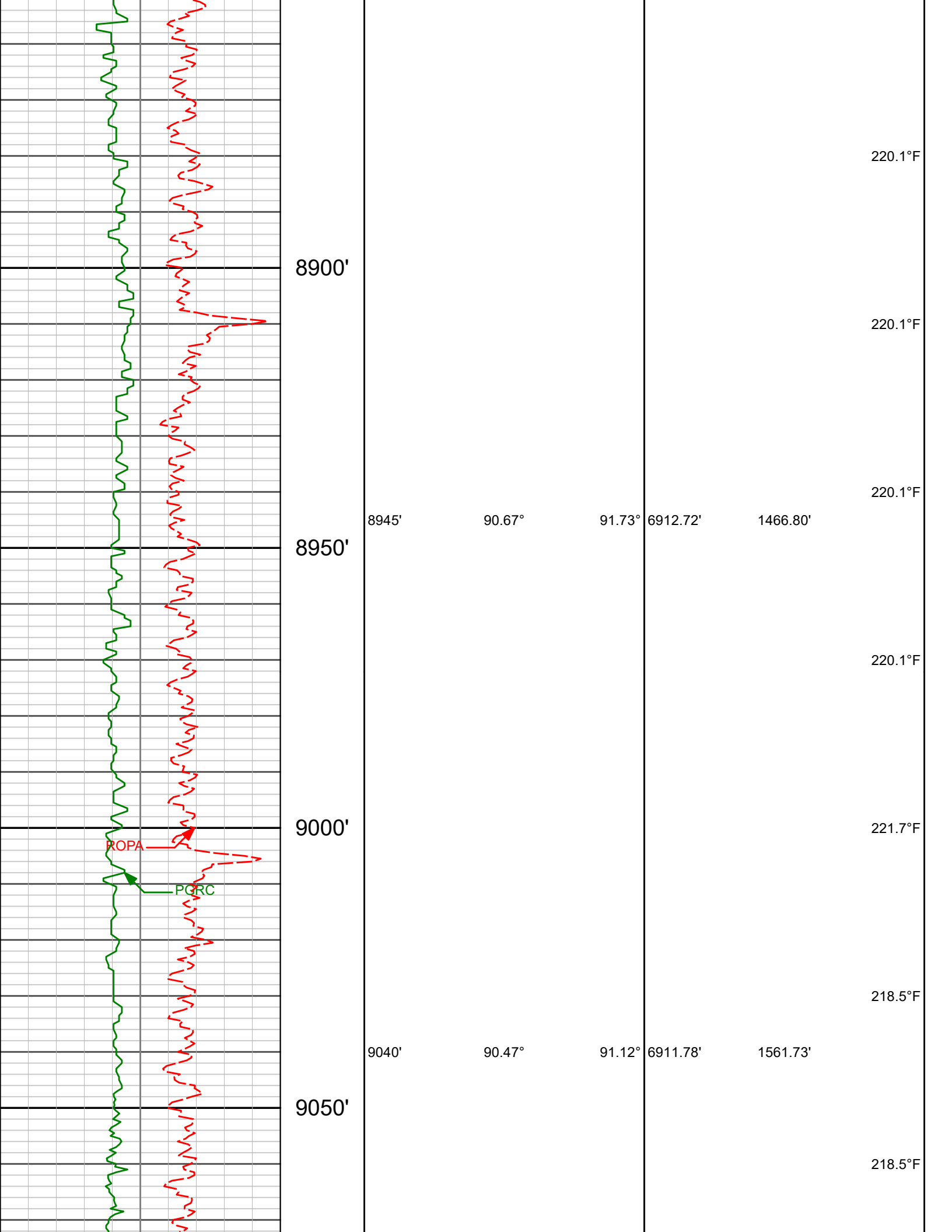


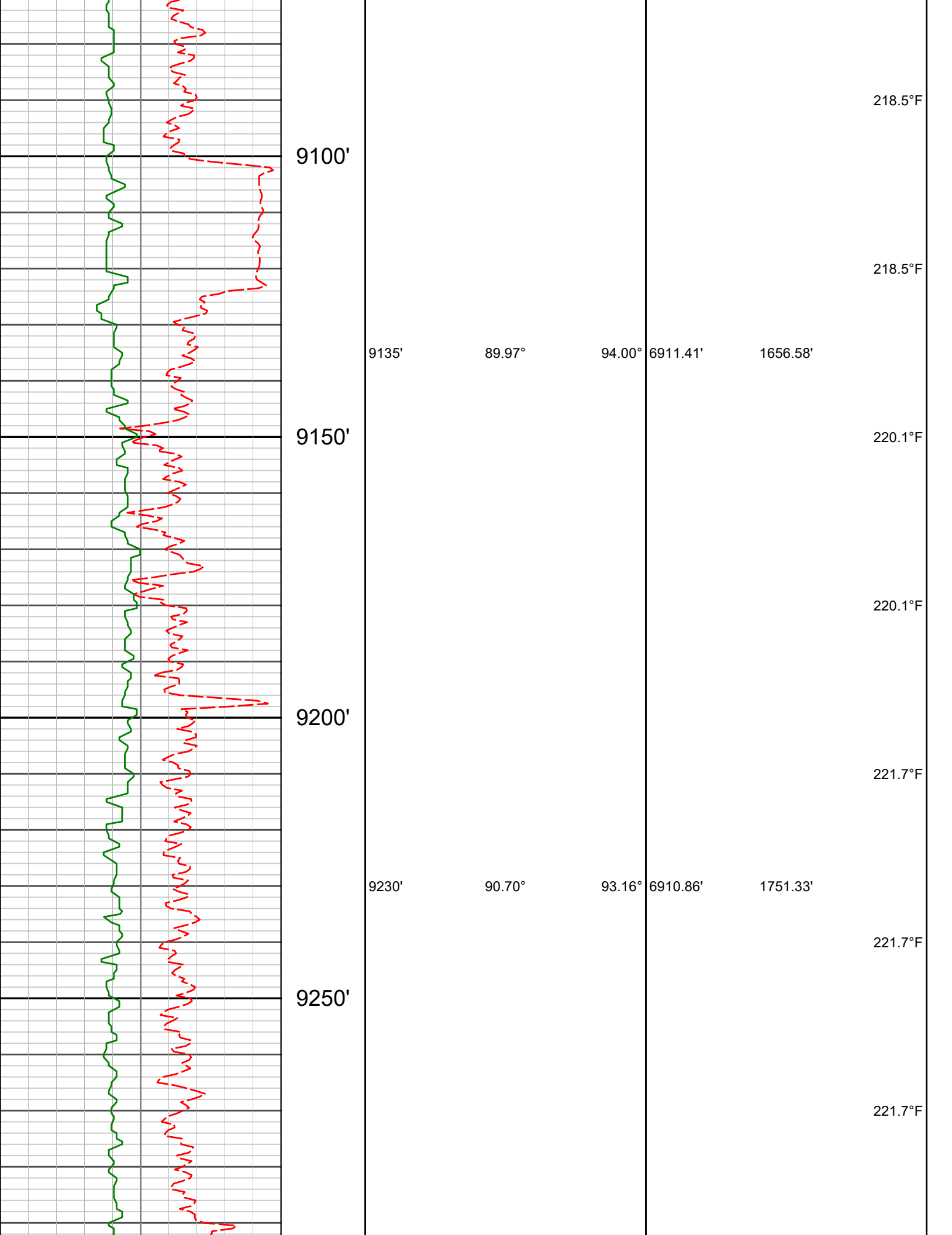


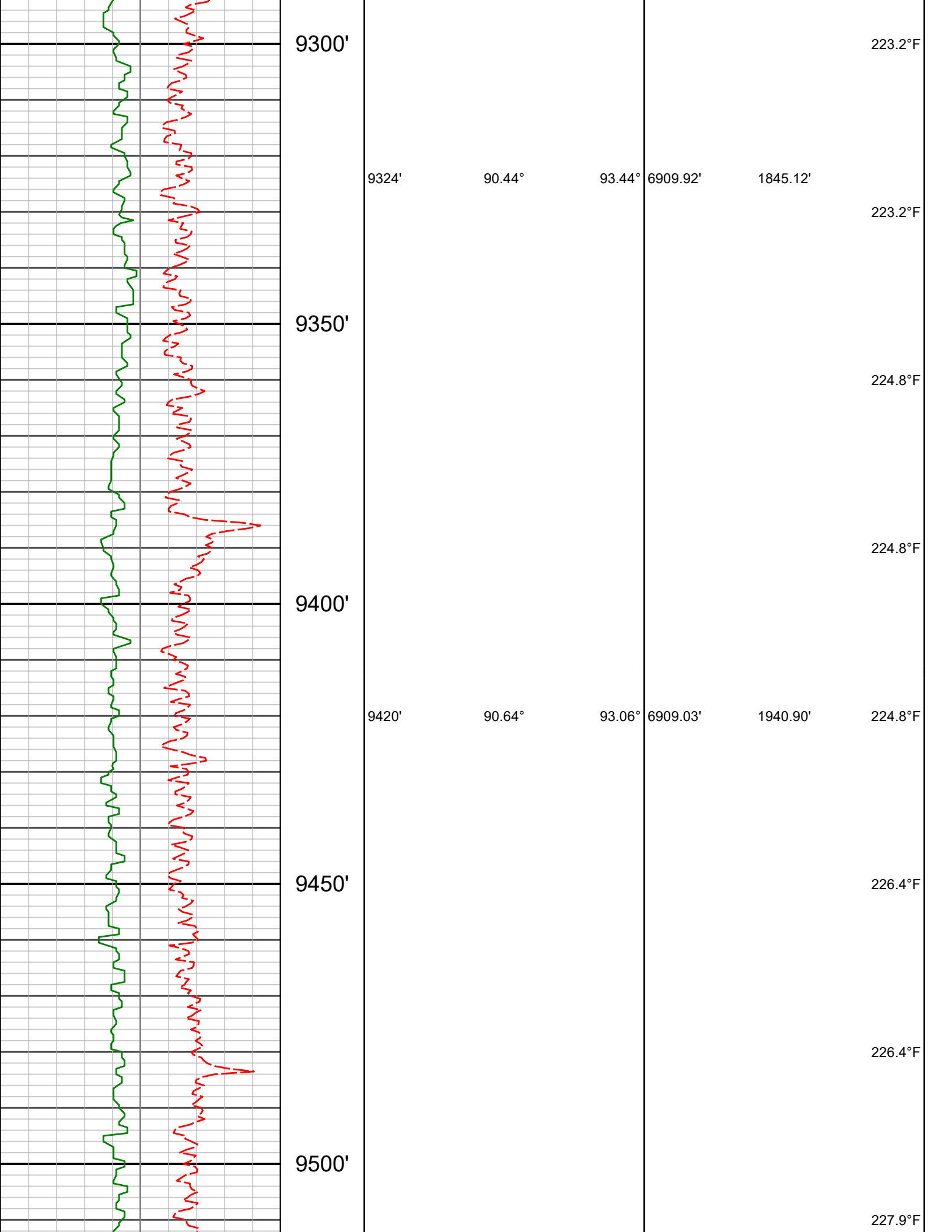


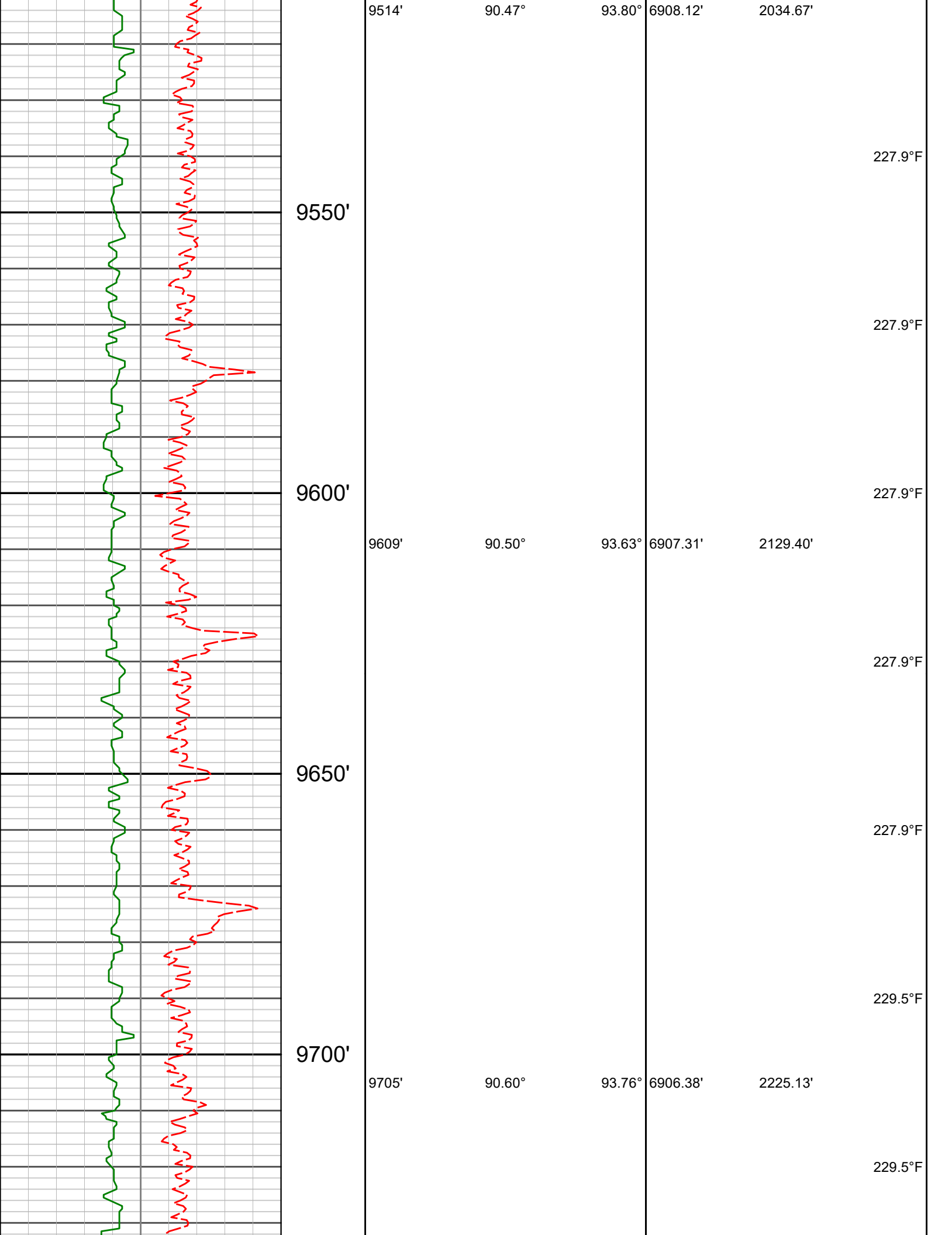


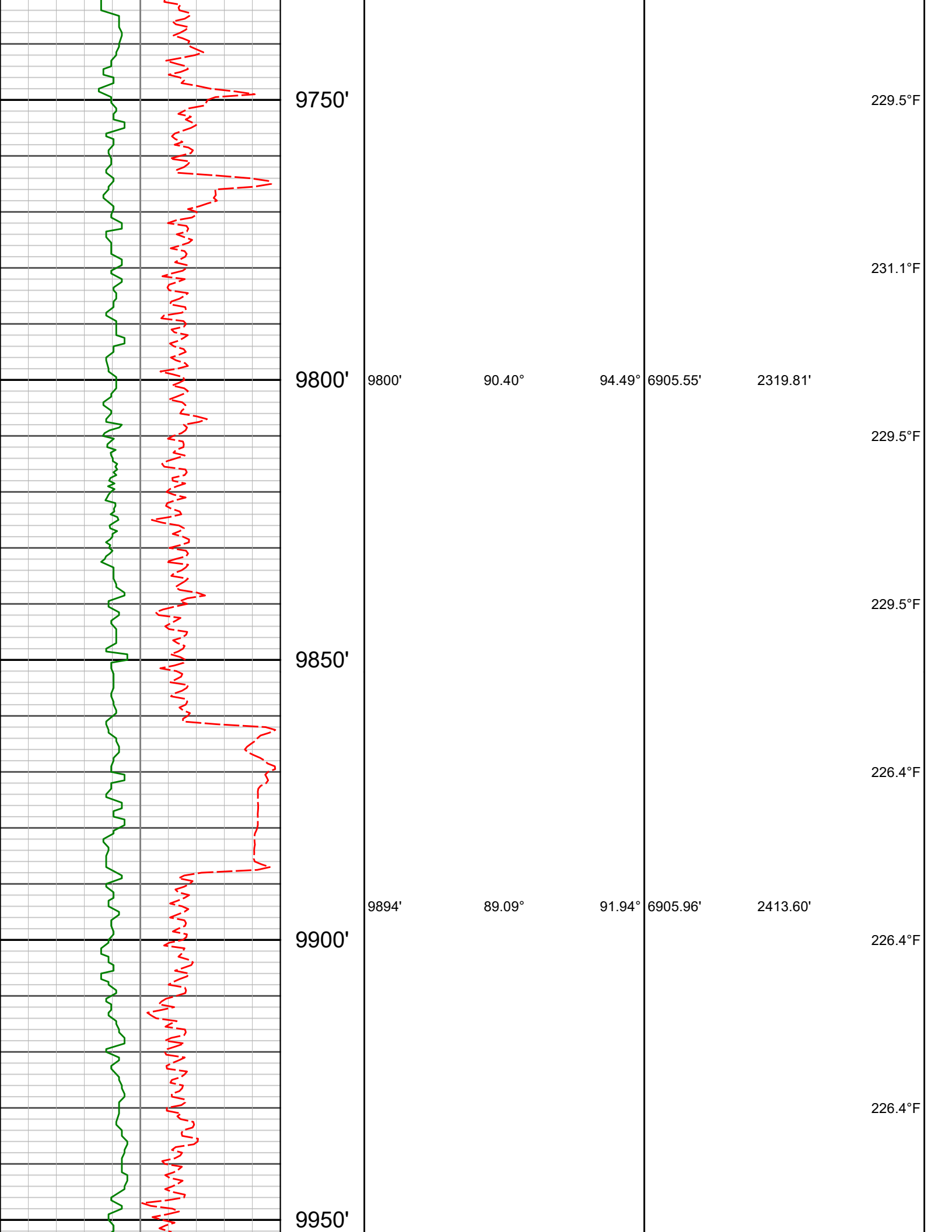


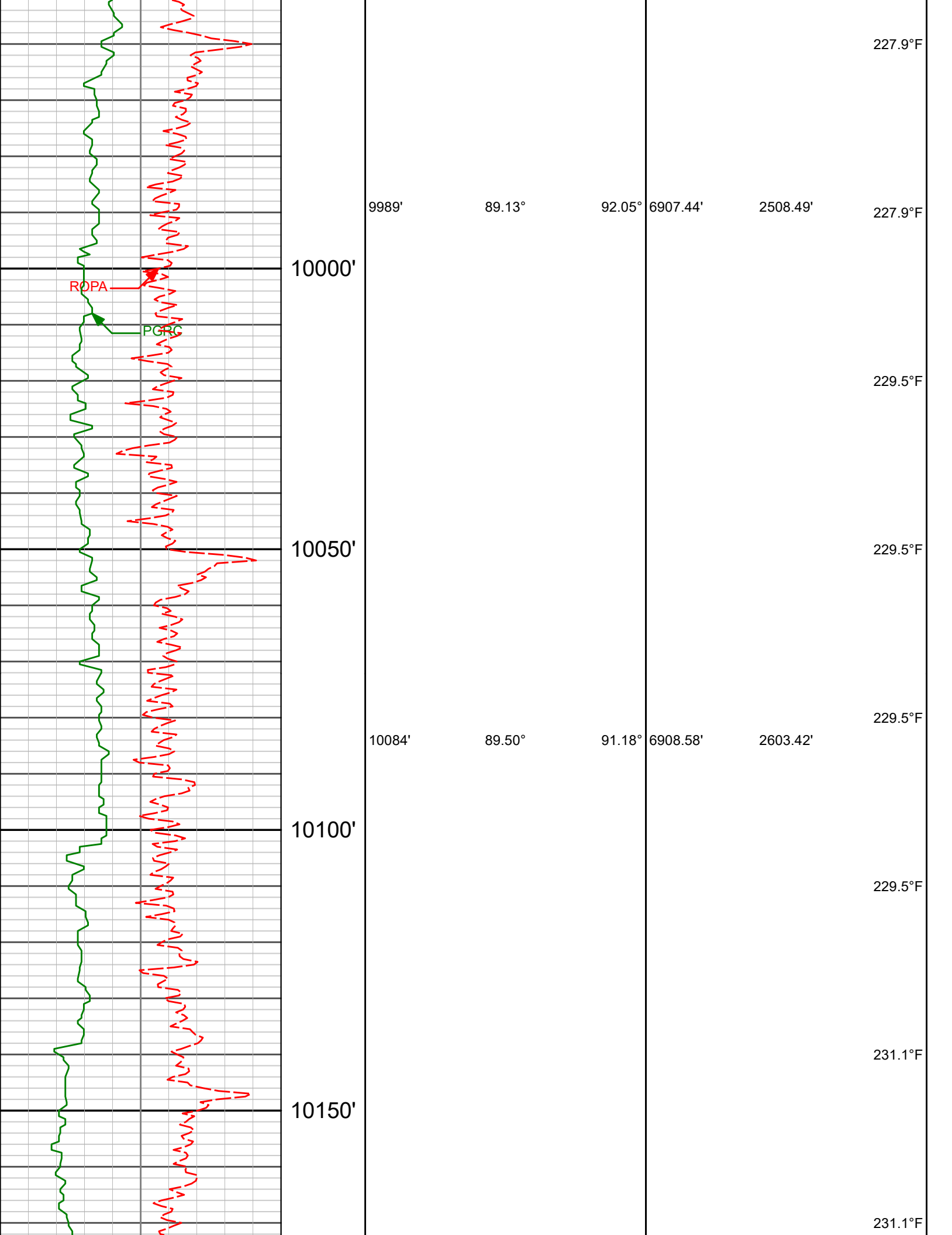


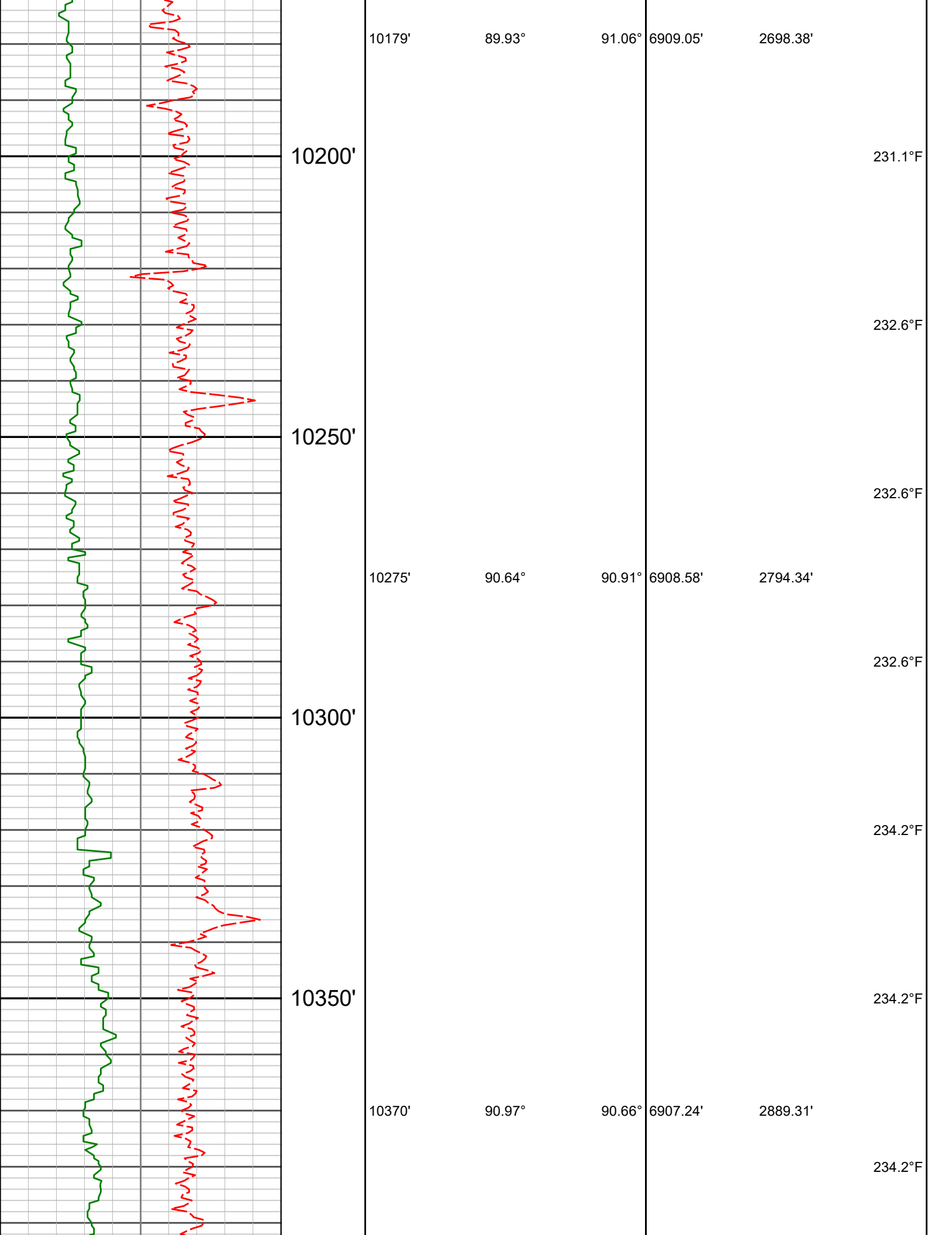


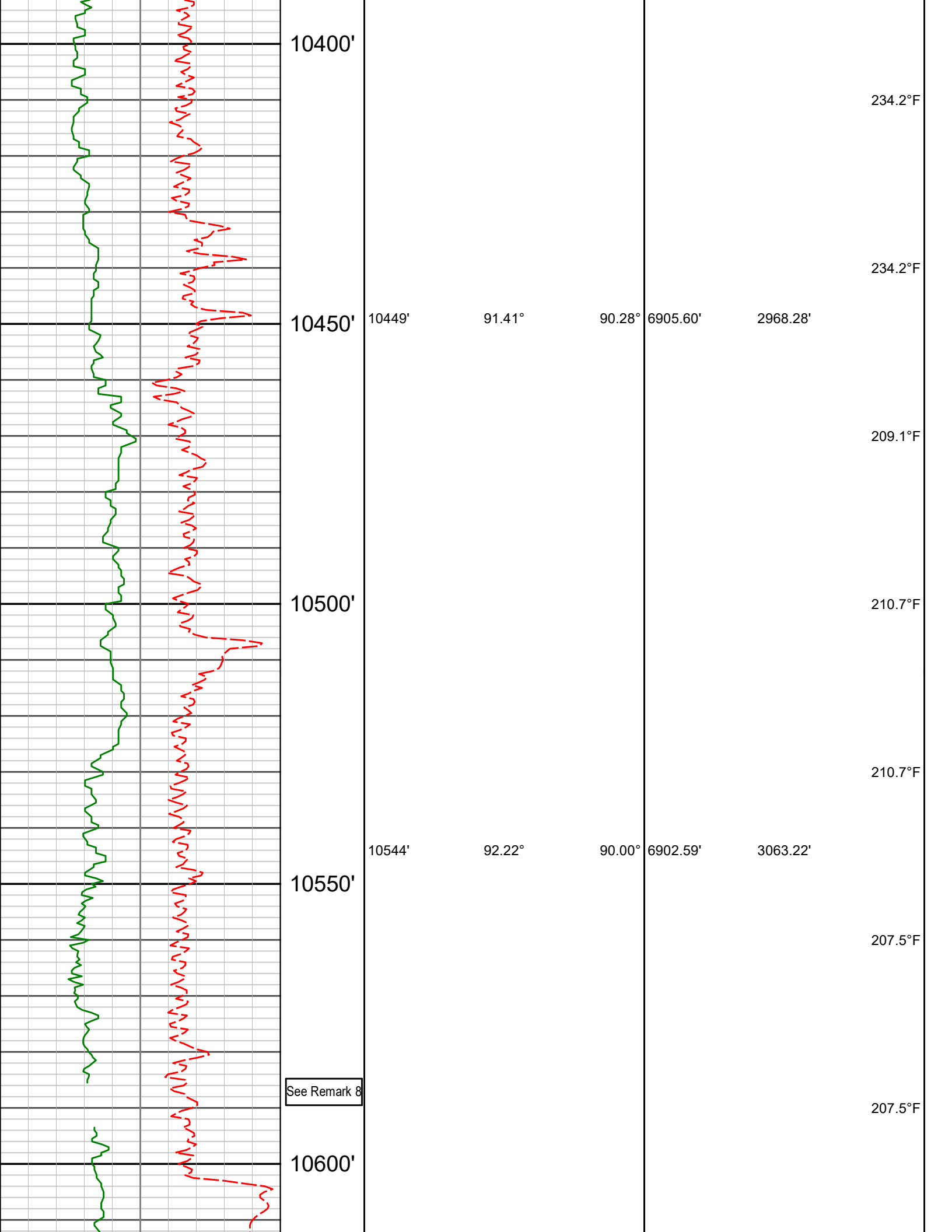


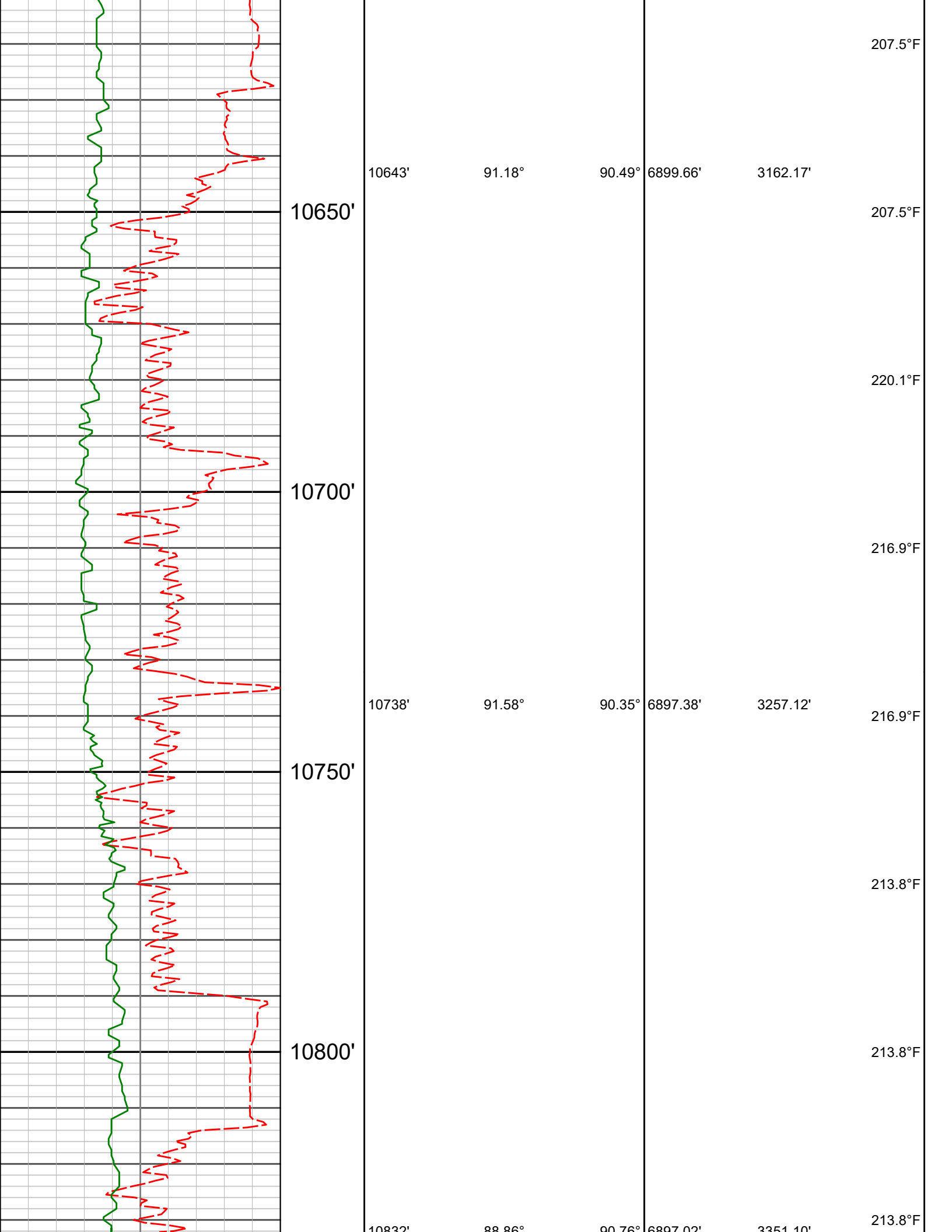


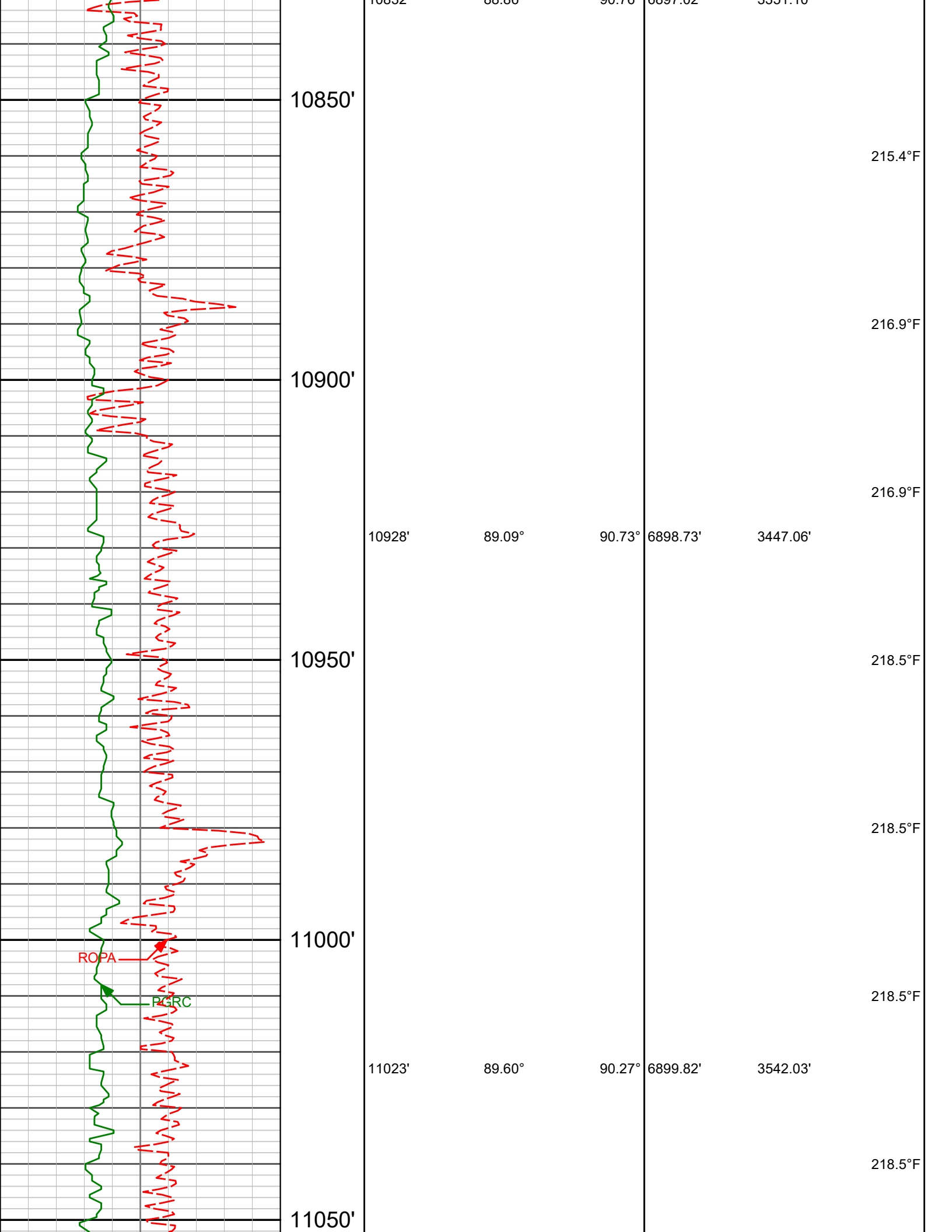


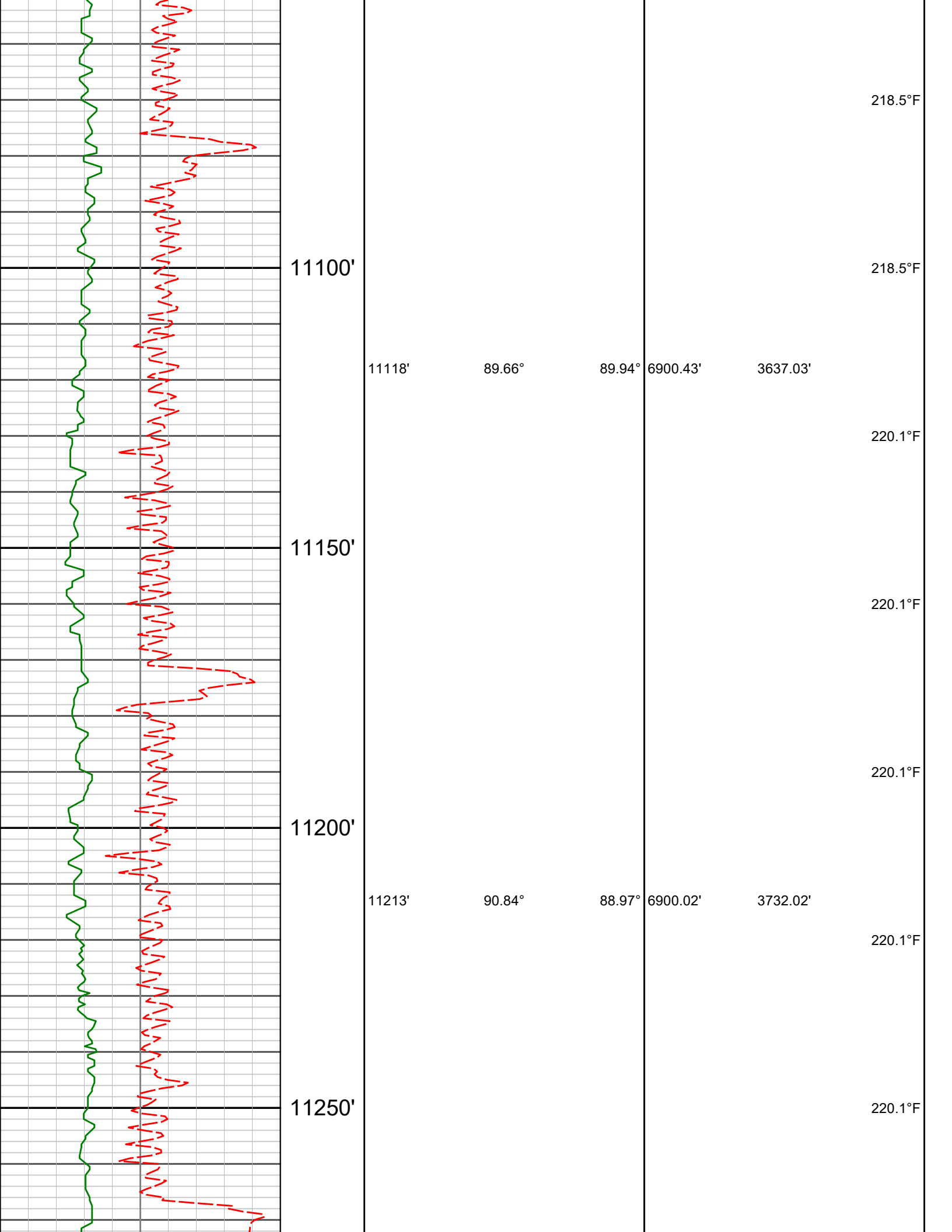


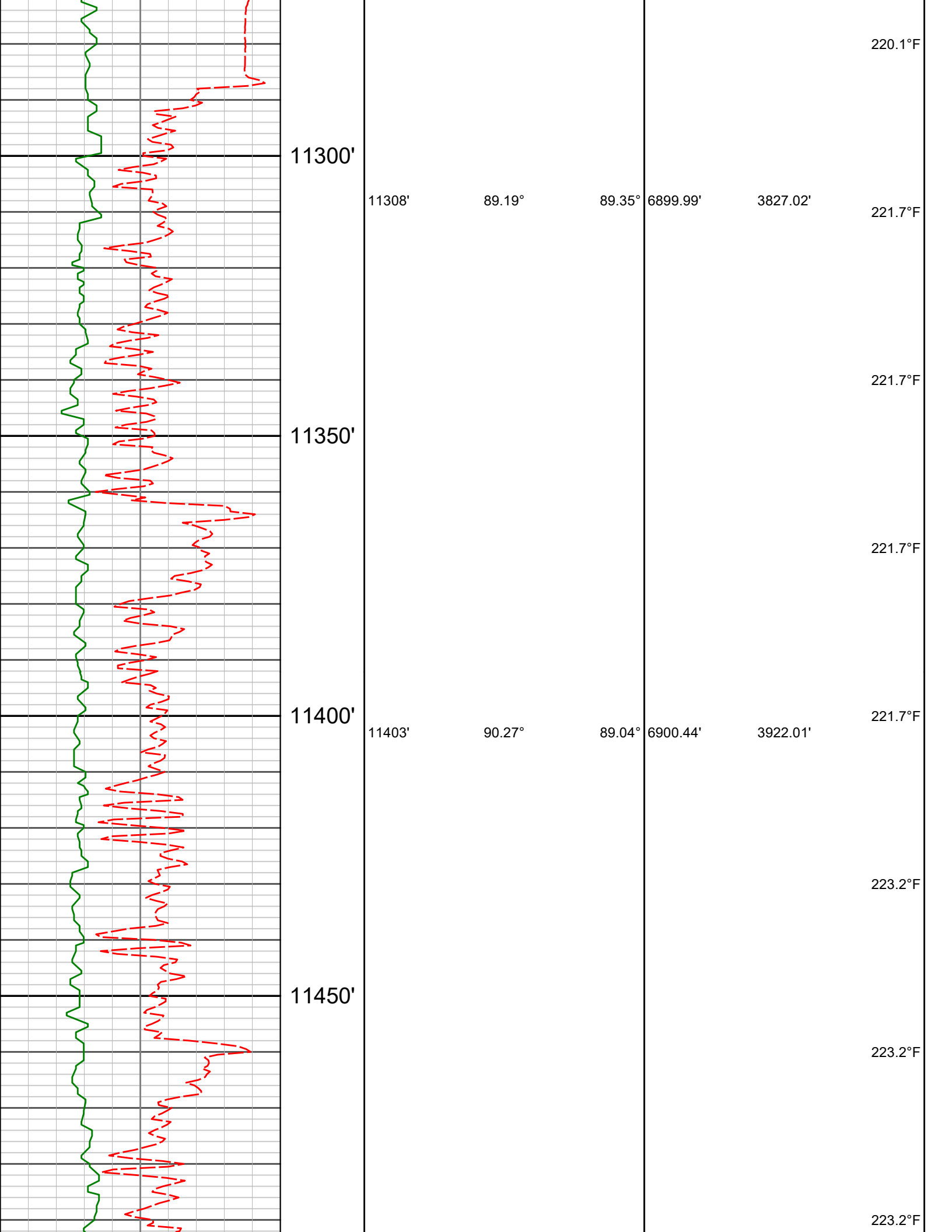


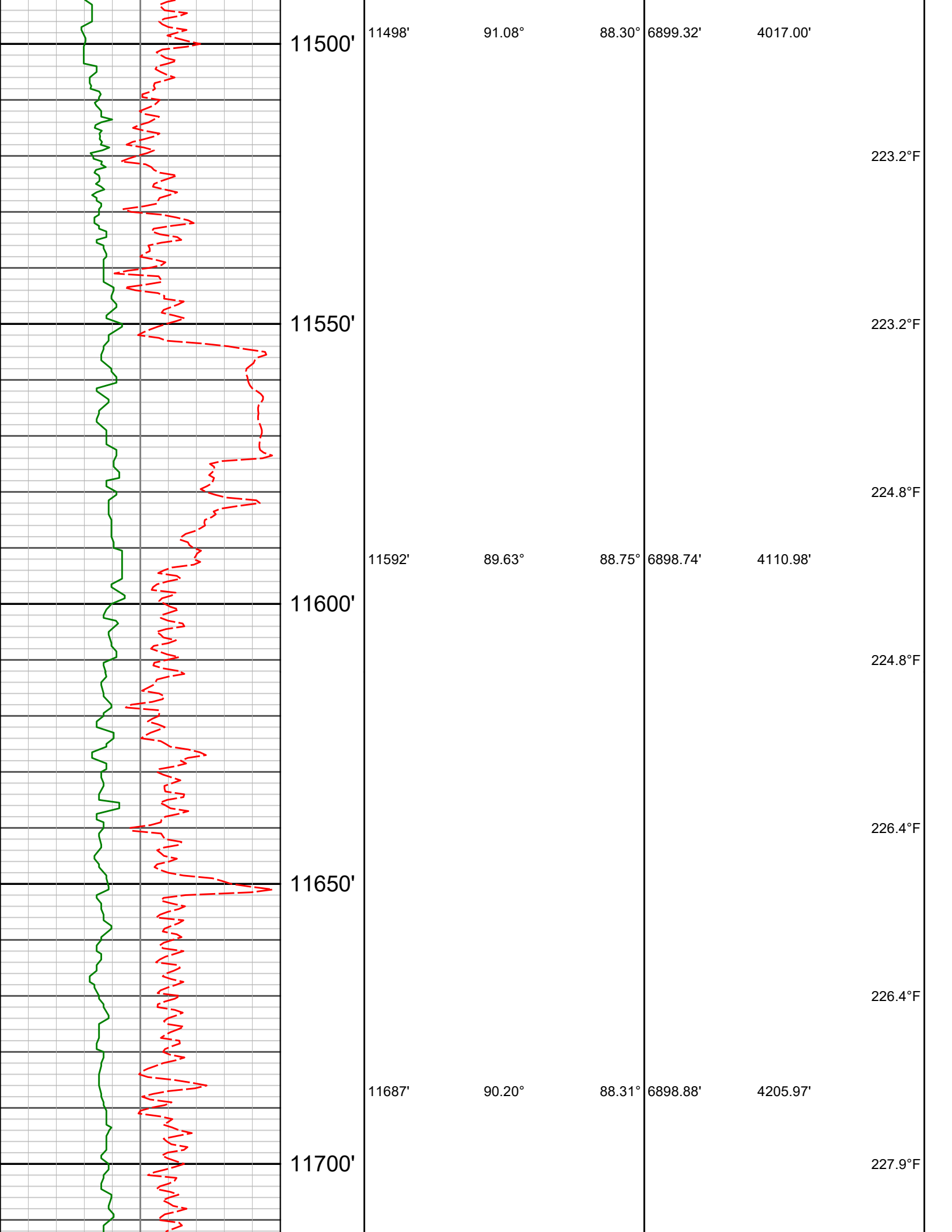


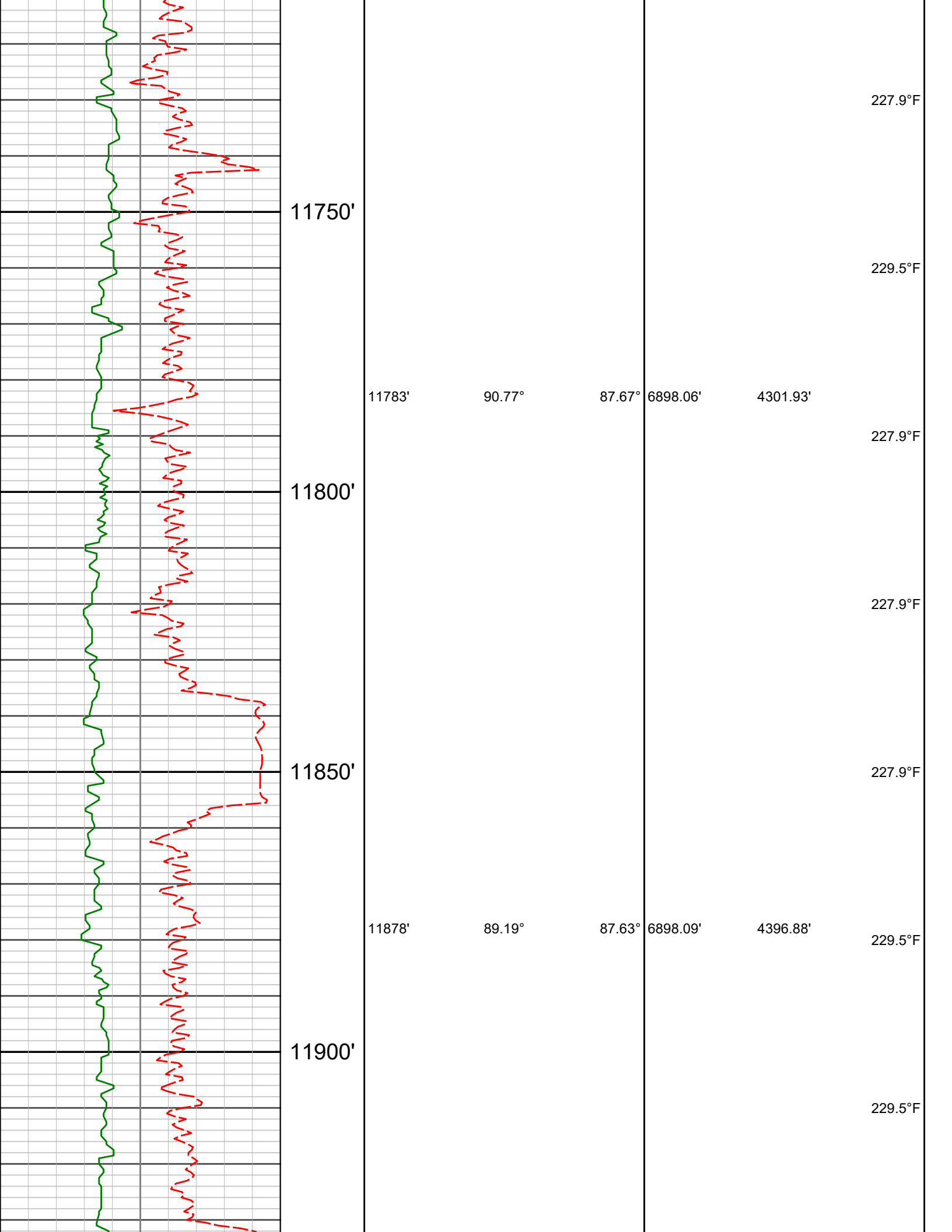


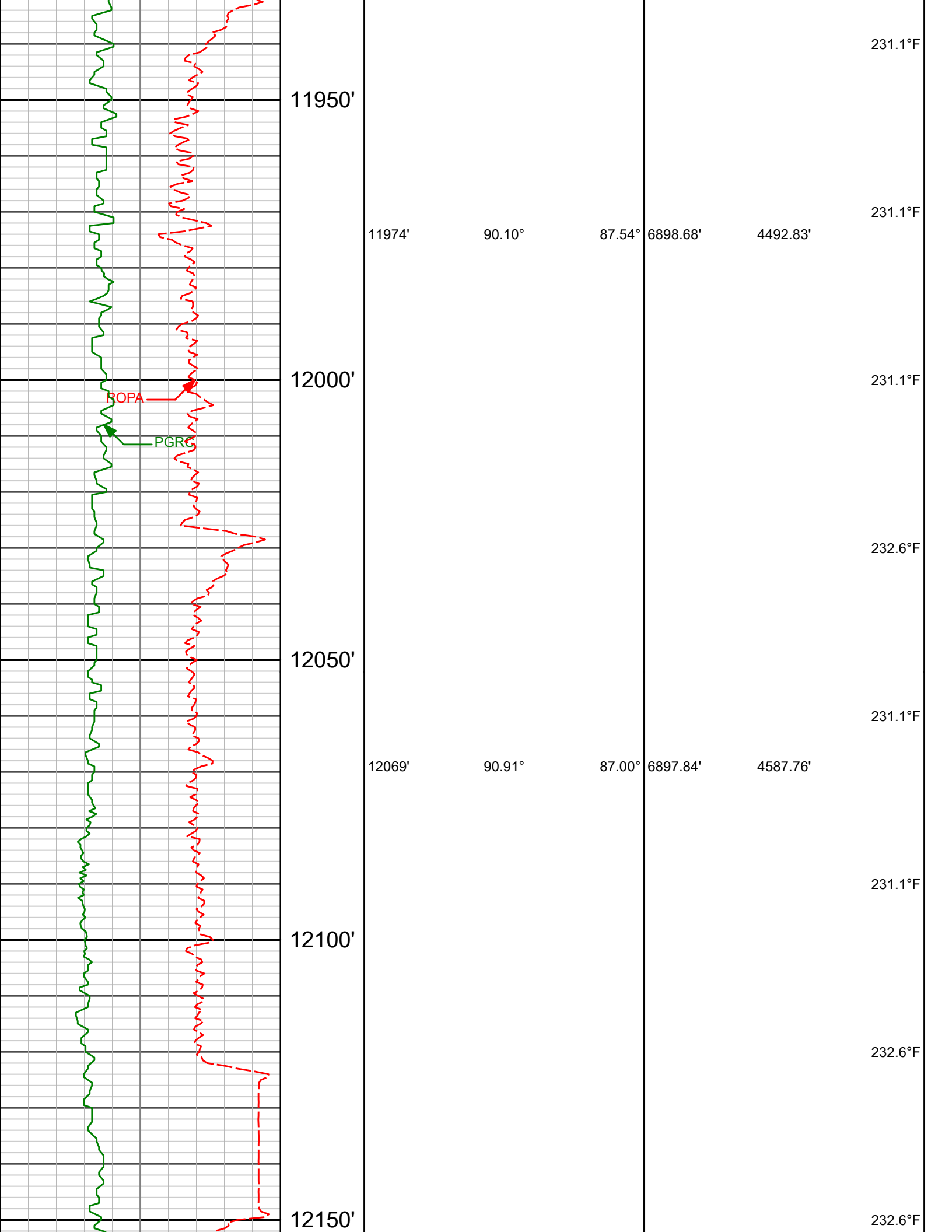


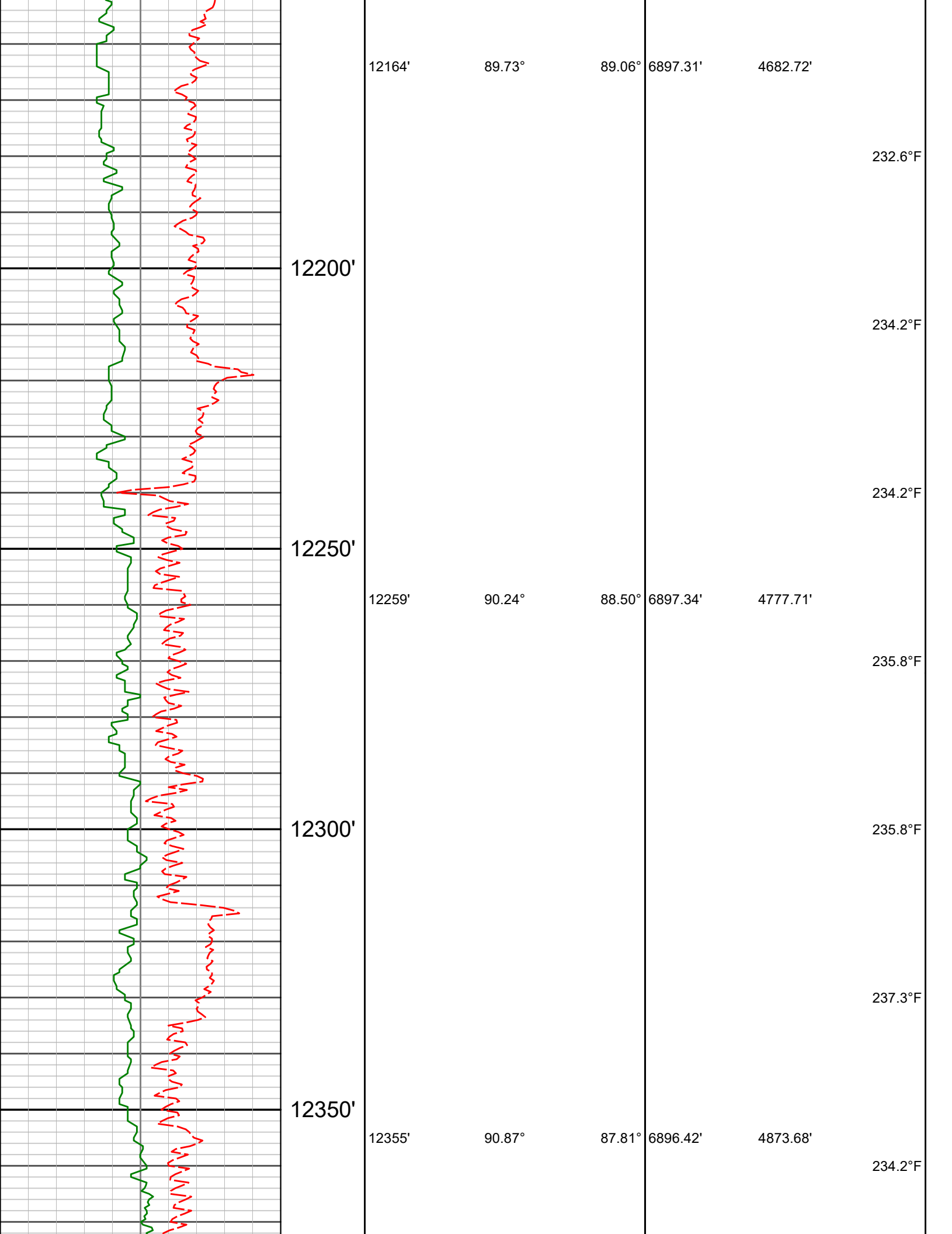


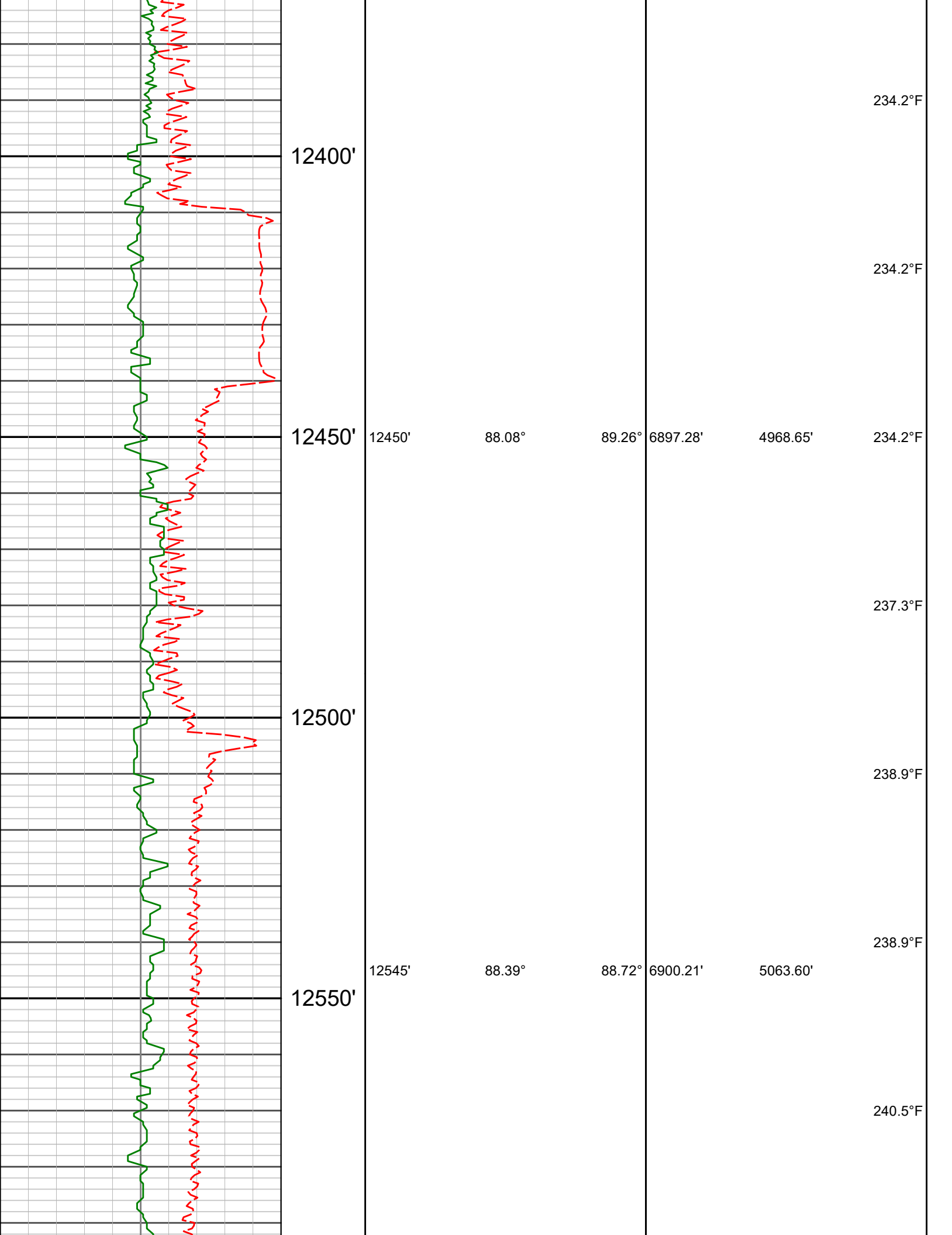


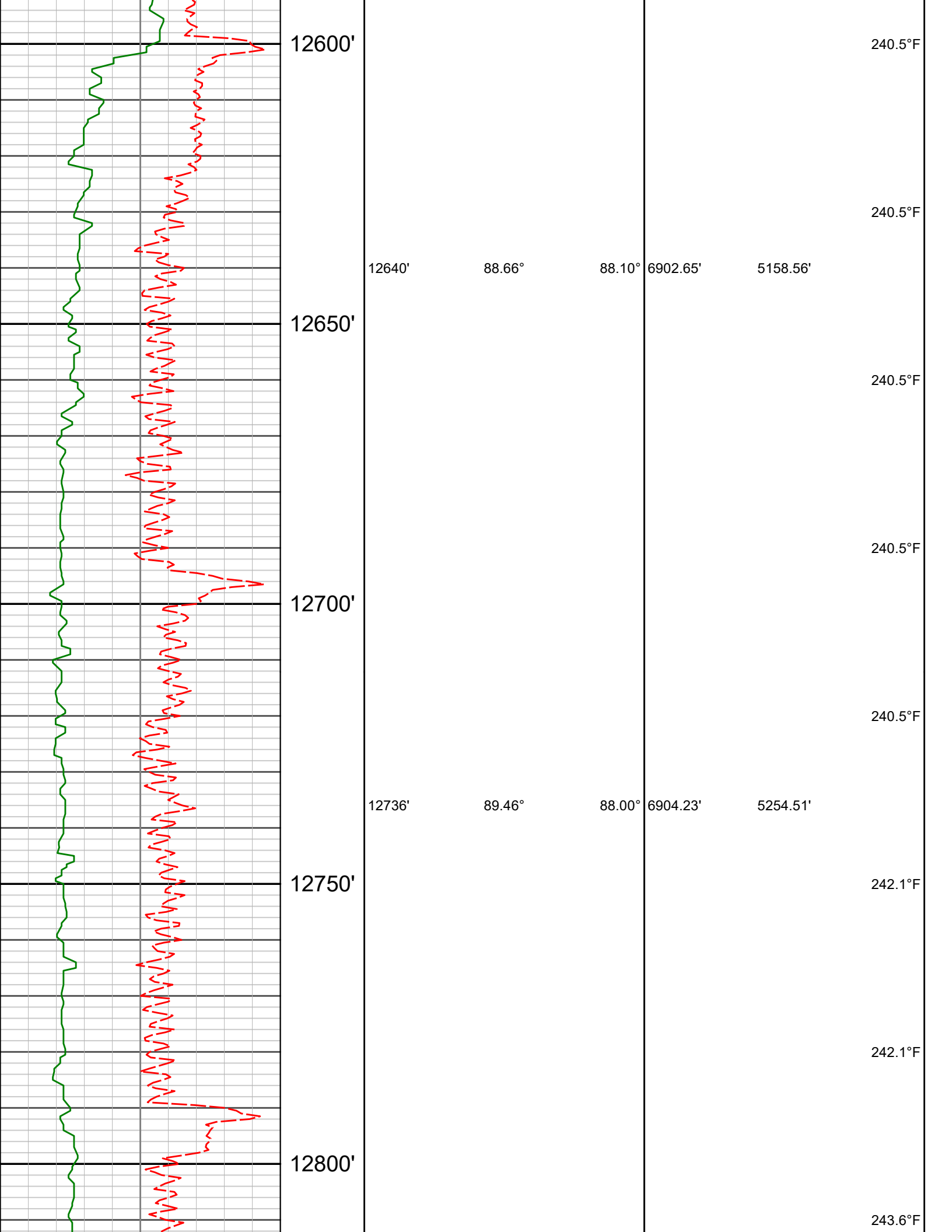


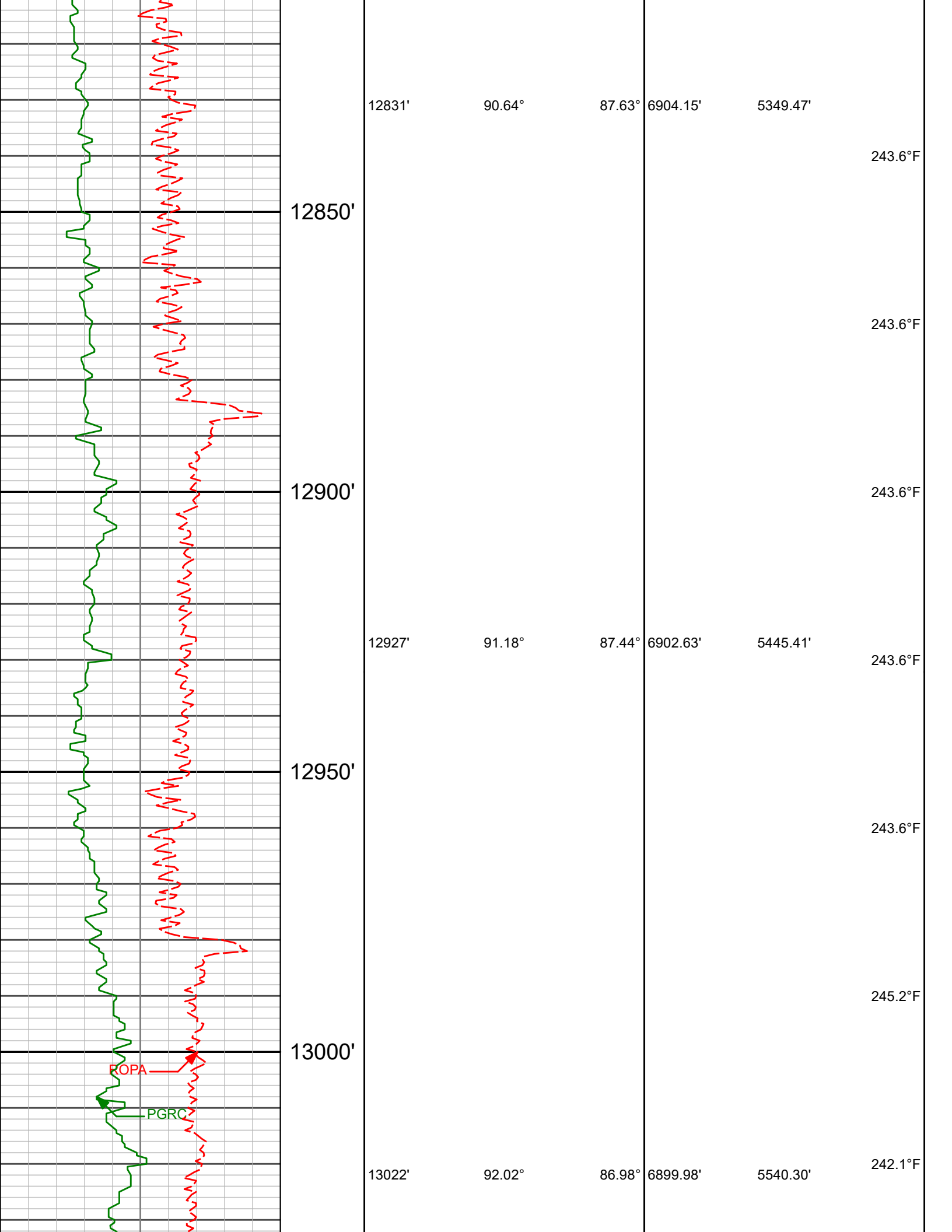


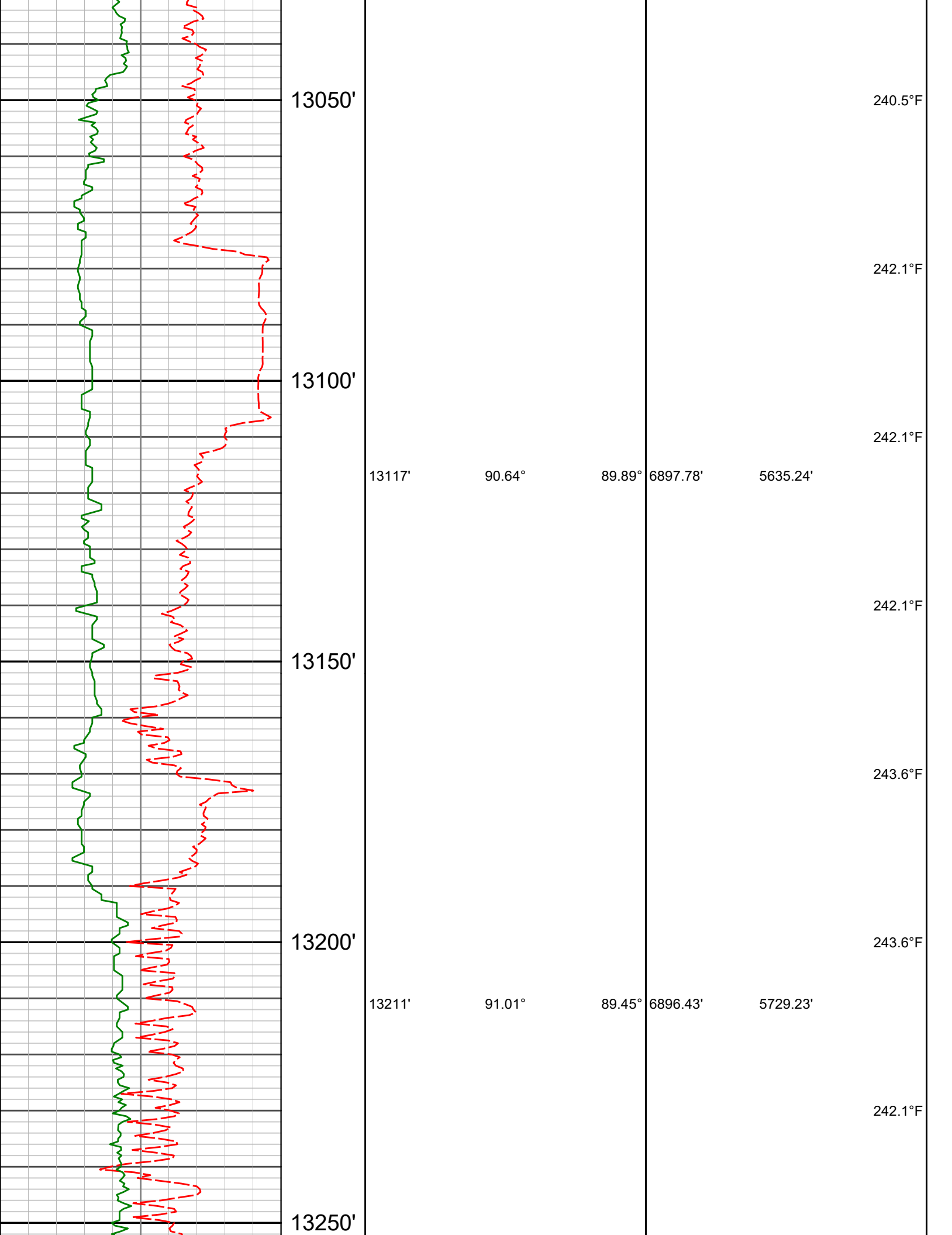


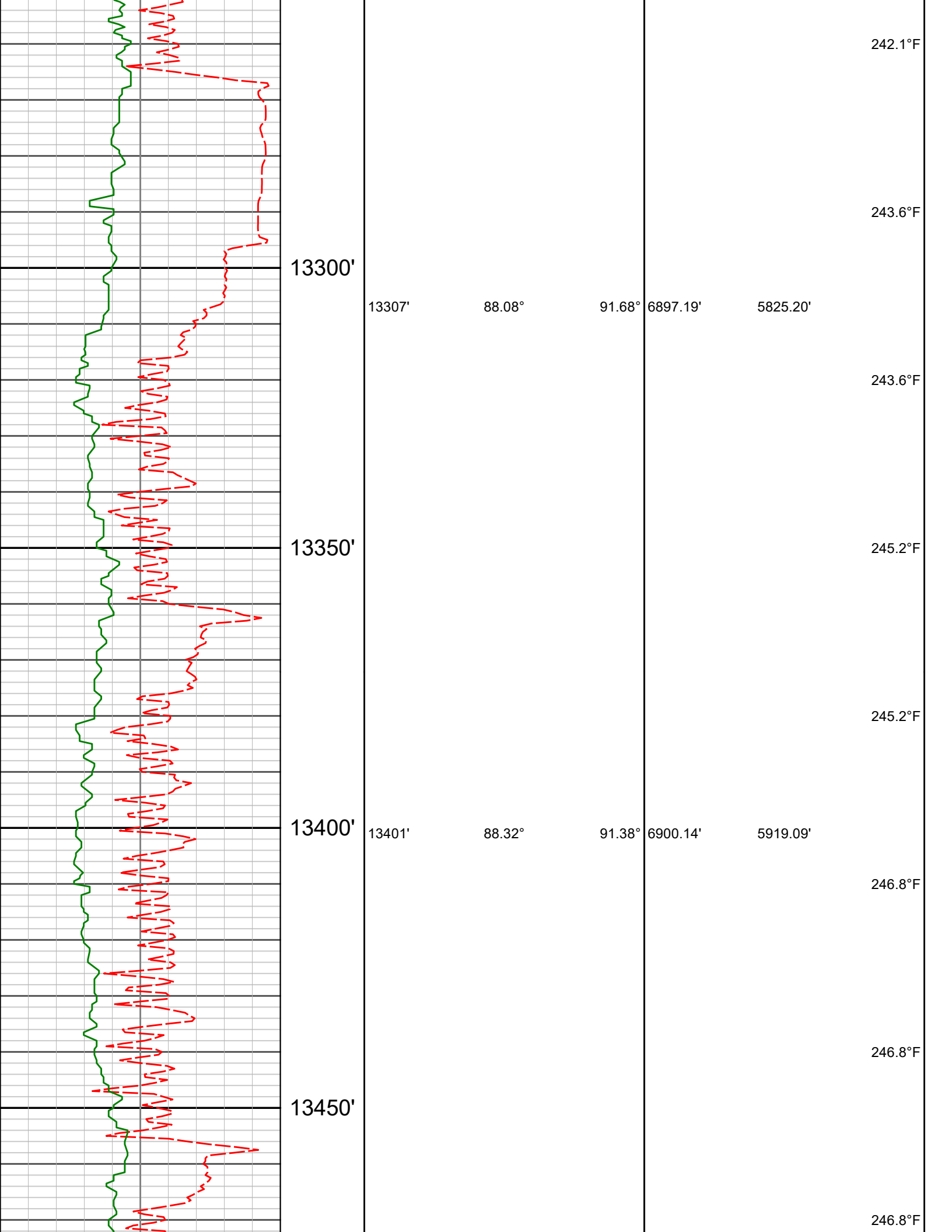


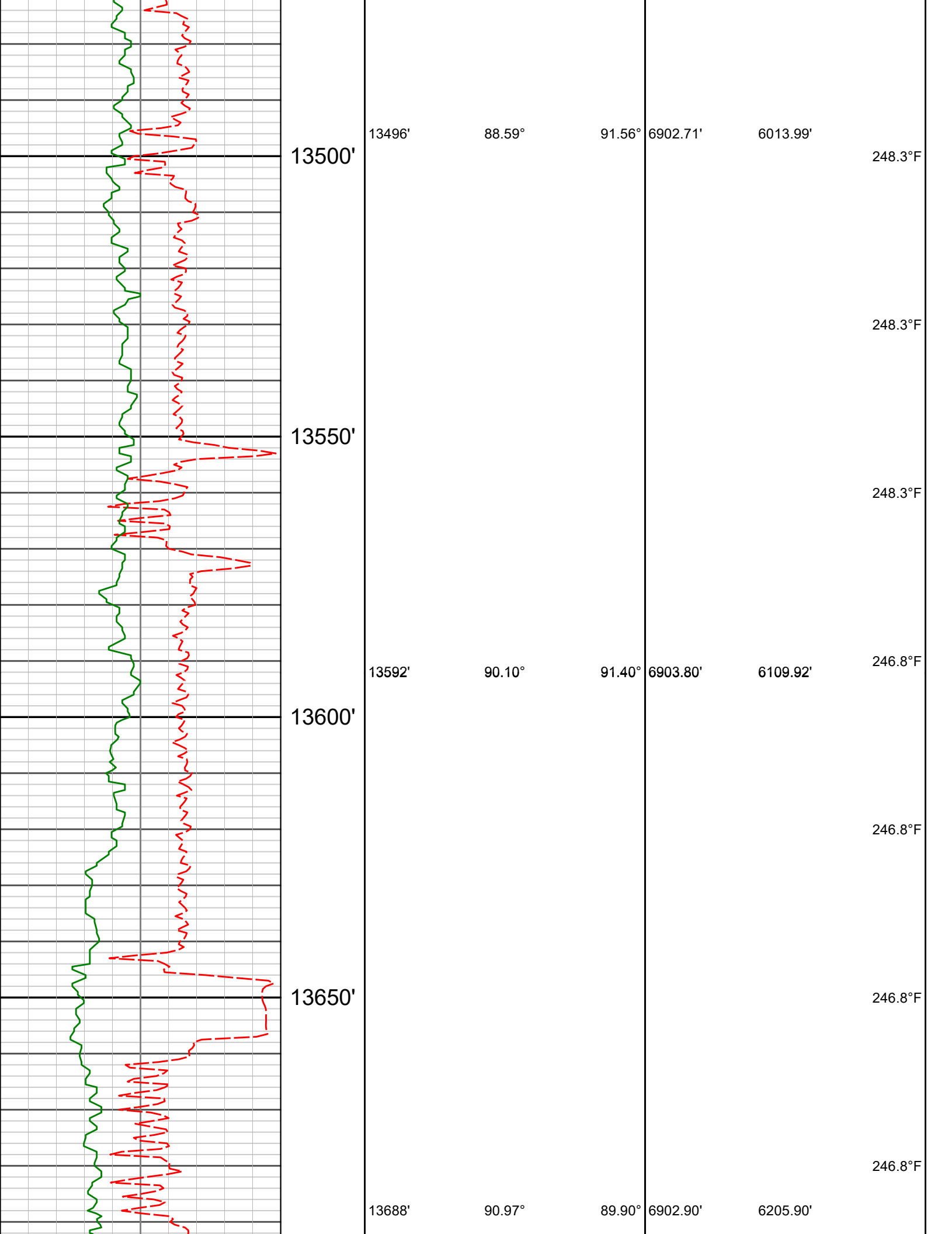


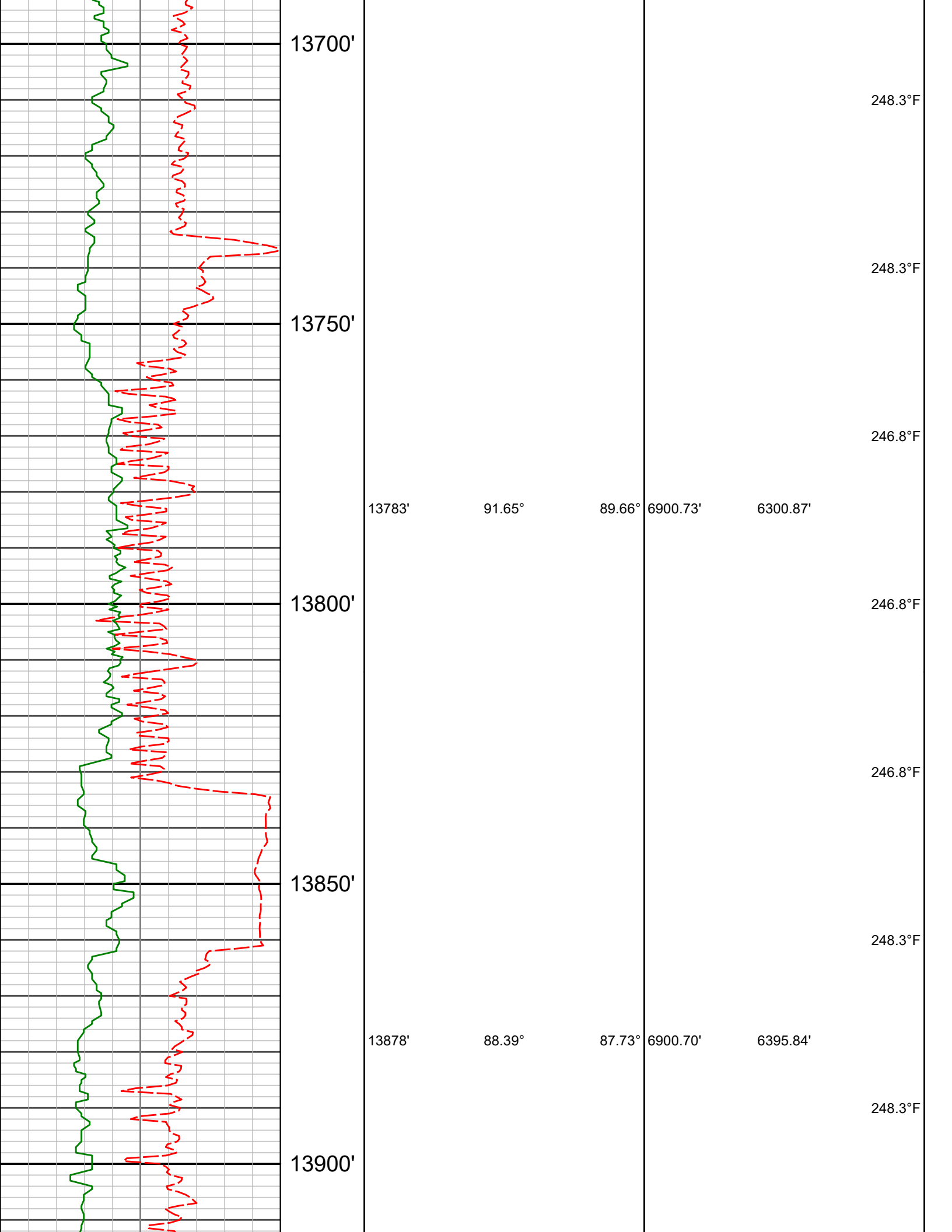


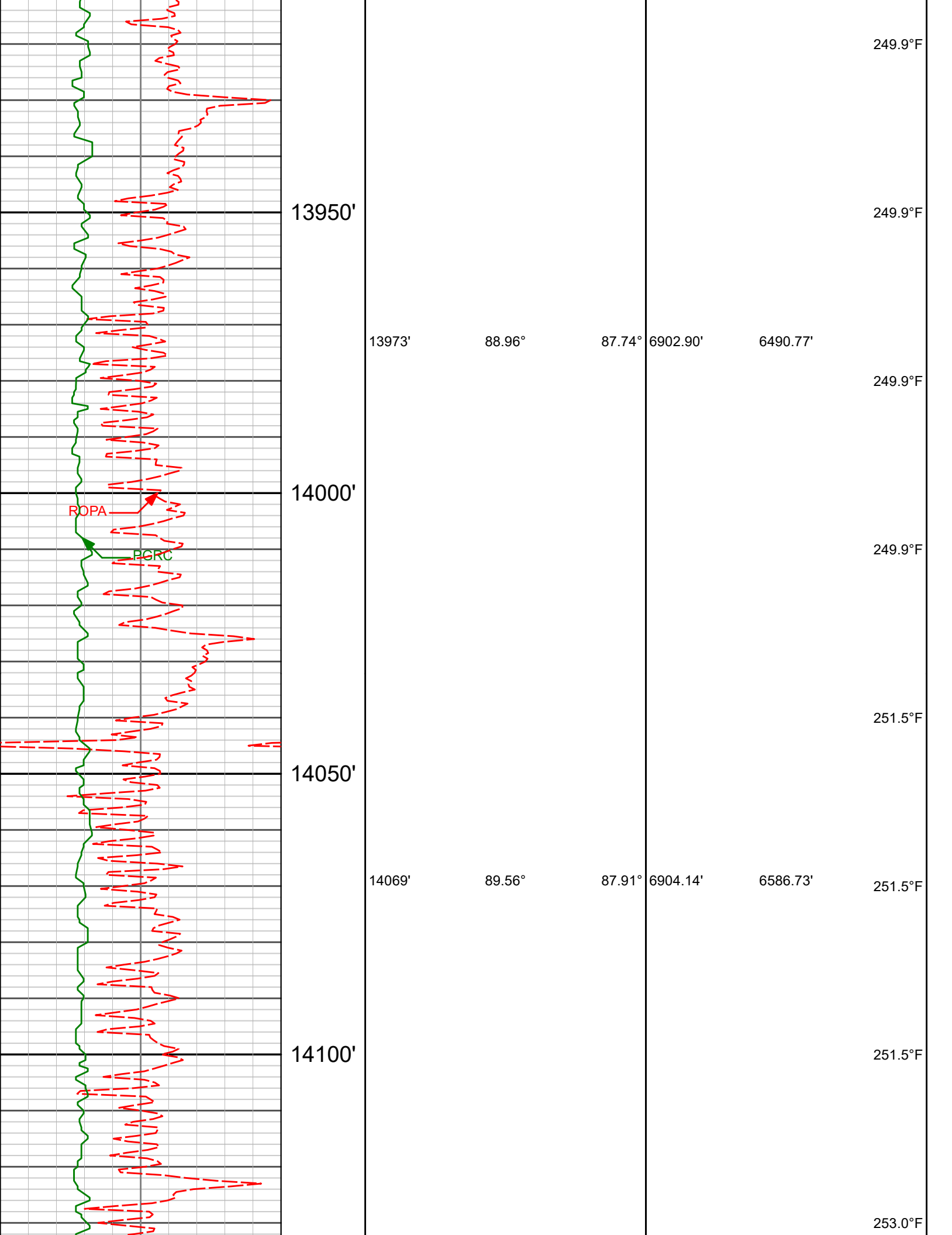


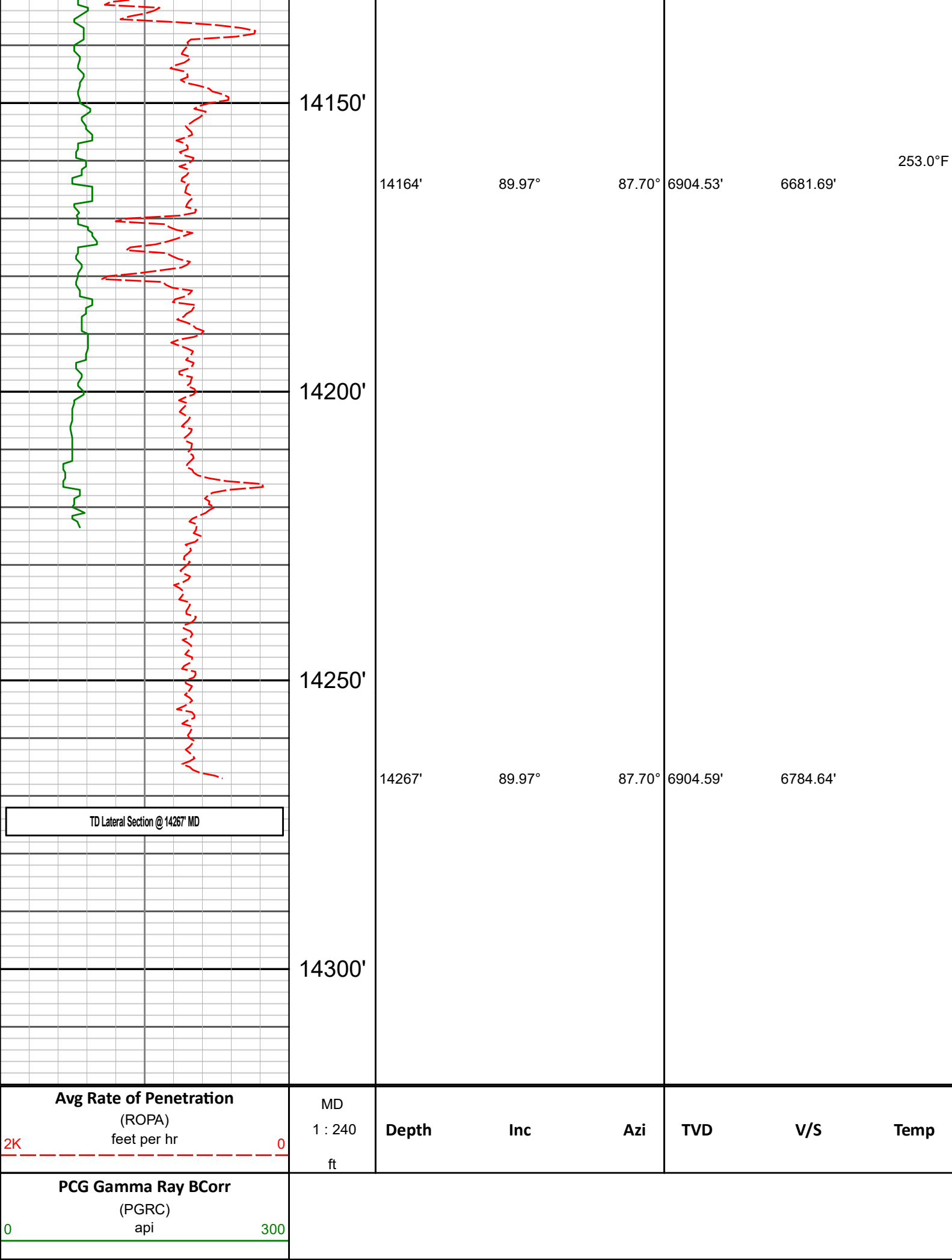












HALLIBURTON

DIRECTIONAL SURVEY REPORT

Extraction Oil Gas
GP-Cody Fed 20E-15-3
Wattenberg
Weld Colorado
USA

CA-XX-0906221909

Third party Gyro surveys from 142.30' to 1,560.30' MD
First Sperry MWD survey @ 1678' MD

Measured Depth (feet)	Inclination (degrees)	Direction (degrees)	Vertical Depth (feet)	Latitude (feet)	Departure (feet)	Vertical Section (feet)	Dogleg (deg/100ft)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	TIE-IN
142.30	0.48	113.55	142.30	0.24 S	0.55 E	0.54	0.34
229.30	1.10	99.92	229.29	0.53 S	1.70 E	1.70	0.74
316.30	1.36	117.50	316.27	1.15 S	3.44 E	3.43	0.52
403.30	0.26	356.39	403.26	1.43 S	4.34 E	4.33	1.74
491.30	0.88	324.04	491.26	0.68 S	3.94 E	3.93	0.77
578.30	1.23	305.06	578.24	0.40 N	2.78 E	2.78	0.56
665.30	1.67	286.34	665.22	1.29 N	0.80 E	0.81	0.74
752.30	2.15	276.32	752.17	1.82 N	2.04 W	-2.02	0.67
840.30	3.65	273.51	840.05	2.18 N	6.48 W	-6.46	1.71
927.30	5.41	277.46	926.78	2.88 N	13.31 W	-13.28	2.05
1014.30	7.47	279.83	1013.22	4.38 N	22.95 W	-22.91	2.39
1102.30	8.39	274.12	1100.38	5.82 N	34.99 W	-34.93	1.38
1189.30	9.36	275.00	1186.34	6.89 N	48.37 W	-48.30	1.13
1276.30	8.61	271.57	1272.27	7.68 N	61.93 W	-61.85	1.06
1364.30	9.23	271.66	1359.21	8.07 N	75.56 W	-75.48	0.70
1451.30	8.22	270.87	1445.20	8.37 N	88.76 W	-88.67	1.17
1538.30	8.22	271.13	1531.31	8.58 N	101.20 W	-101.11	0.04
1560.30	8.39	271.92	1553.08	8.67 N	104.37 W	-104.28	0.93
1678.00	8.97	270.78	1669.43	9.08 N	122.13 W	-122.04	0.51
1773.00	8.74	270.10	1763.29	9.19 N	136.75 W	-136.65	0.27
1869.00	8.53	268.43	1858.21	9.01 N	151.15 W	-151.06	0.34
1964.00	8.23	266.98	1952.19	8.46 N	164.98 W	-164.89	0.39
2060.00	7.82	266.04	2047.25	7.65 N	178.35 W	-178.27	0.45
2155.00	8.55	278.39	2141.29	8.23 N	191.78 W	-191.69	2.00
2251.00	7.76	277.09	2236.32	10.07 N	205.27 W	-205.16	0.84
2346.00	6.93	273.68	2330.54	11.23 N	217.36 W	-217.24	0.99
2441.00	9.56	277.51	2424.55	12.63 N	230.90 W	-230.77	2.82
2536.00	9.26	276.29	2518.28	14.50 N	246.32 W	-246.16	0.38
2649.00	8.95	275.35	2629.85	16.31 N	264.11 W	-263.94	0.31
2745.00	8.93	275.06	2724.69	17.66 N	278.96 W	-278.78	0.05
2840.00	8.69	274.76	2818.57	18.91 N	293.45 W	-293.26	0.26
2935.00	7.94	274.42	2912.57	20.01 N	307.14 W	-306.94	0.79
3031.00	7.58	273.56	3007.69	20.91 N	320.07 W	-319.86	0.40
3126.00	7.16	272.14	3101.90	21.52 N	332.24 W	-332.01	0.48
3222.00	7.43	275.50	3197.13	22.34 N	344.39 W	-344.16	0.53
3316.00	9.46	278.84	3290.10	24.11 N	358.08 W	-357.83	2.22
3412.00	8.15	275.00	3384.97	25.92 N	372.65 W	-372.39	1.50
3506.00	8.74	264.57	3477.96	25.82 N	386.40 W	-386.13	1.74
3601.00	7.59	260.54	3571.99	24.11 N	399.77 W	-399.52	1.35
3697.00	8.13	270.86	3667.10	23.17 N	412.81 W	-412.57	1.57
3792.00	8.17	269.88	3761.14	23.25 N	426.28 W	-426.04	0.15
3887.00	8.20	269.17	3855.17	23.14 N	439.81 W	-439.57	0.11
3983.00	8.31	275.46	3950.17	23.70 N	453.57 W	-453.32	0.95
4077.00	7.33	275.88	4043.30	24.96 N	466.30 W	-466.04	1.05
4173.00	9.56	284.15	4138.26	27.54 N	480.12 W	-479.84	2.64
4268.00	8.16	282.66	4232.12	30.94 N	494.35 W	-494.03	1.49
4363.00	8.32	278.70	4326.14	33.46 N	507.72 W	-507.37	0.62
4458.00	10.81	274.97	4419.81	35.27 N	523.39 W	-523.02	2.70
4554.00	10.20	273.26	4514.20	36.53 N	540.84 W	-540.47	0.71

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<i>Measured Depth (feet)</i>	<i>Inclination (degrees)</i>	<i>Direction (degrees)</i>	<i>Vertical Depth (feet)</i>	<i>Latitude (feet)</i>	<i>Departure (feet)</i>	<i>Vertical Section (feet)</i>	<i>Dogleg (deg/100ft)</i>
4648.00	9.82	272.75	4606.77	37.39 N	557.16 W	-556.77	0.42
4744.00	8.50	270.11	4701.55	37.80 N	572.43 W	-572.04	1.44
4838.00	7.77	270.33	4794.60	37.85 N	585.73 W	-585.34	0.78
4932.00	10.00	261.81	4887.47	36.72 N	600.16 W	-599.78	2.75
5027.00	9.04	258.78	4981.16	34.10 N	615.65 W	-615.29	1.15
5122.00	8.66	269.56	5075.04	32.59 N	630.12 W	-629.77	1.79
5236.00	6.74	266.67	5188.01	32.14 N	645.37 W	-645.04	1.72
5331.00	8.39	268.49	5282.18	31.63 N	657.87 W	-657.54	1.76
5427.00	11.00	272.44	5376.80	31.84 N	674.04 W	-673.70	2.80
5522.00	9.49	270.67	5470.28	32.31 N	690.93 W	-690.59	1.63
5617.00	7.74	270.52	5564.20	32.46 N	705.16 W	-704.82	1.84
5712.00	8.84	271.17	5658.21	32.67 N	718.86 W	-718.52	1.16
5807.00	7.30	267.14	5752.26	32.52 N	732.20 W	-731.85	1.73
5902.00	7.16	269.44	5846.51	32.16 N	744.15 W	-743.81	0.34
5998.00	7.81	270.55	5941.69	32.16 N	756.66 W	-756.32	0.69
6092.00	6.42	267.56	6034.96	32.00 N	768.31 W	-767.96	1.53
6187.00	5.27	260.16	6129.47	31.03 N	777.91 W	-777.58	1.45
6283.00	1.09	314.69	6225.31	30.92 N	782.90 W	-782.57	4.91
6378.00	4.01	74.99	6320.24	32.41 N	780.33 W	-779.98	4.90
6473.00	16.38	88.91	6413.57	33.53 N	763.66 W	-763.30	13.18
6567.00	22.15	94.28	6502.27	32.46 N	732.71 W	-732.37	6.41
6663.00	28.75	92.47	6588.91	30.11 N	691.56 W	-691.24	6.92
6758.00	39.23	91.36	6667.58	28.41 N	638.56 W	-638.26	11.05
6853.00	46.52	89.65	6737.15	27.91 N	573.97 W	-573.68	7.78
6948.00	50.18	89.41	6800.28	28.50 N	503.00 W	-502.70	3.85
7043.00	61.85	89.46	6853.29	29.27 N	424.37 W	-424.07	12.29
7138.00	72.61	86.27	6890.02	32.62 N	336.99 W	-336.66	11.74
7233.00	81.33	86.37	6911.42	38.55 N	244.71 W	-244.33	9.18
7328.00	86.74	87.71	6921.28	43.42 N	150.39 W	-149.96	5.86
7423.00	90.64	89.32	6923.46	45.89 N	55.47 W	-55.02	4.44
7517.00	90.34	90.22	6922.66	46.27 N	38.53 E	38.97	1.02
7612.00	90.67	89.59	6921.82	46.42 N	133.52 E	133.96	0.75
7708.00	90.23	89.99	6921.06	46.77 N	229.52 E	229.96	0.62
7803.00	90.47	89.44	6920.48	47.23 N	324.52 E	324.96	0.63
7898.00	90.34	89.23	6919.81	48.33 N	419.51 E	419.95	0.26
7993.00	90.60	88.69	6919.03	50.05 N	514.49 E	514.95	0.64
8088.00	90.17	88.73	6918.39	52.20 N	609.46 E	609.94	0.46
8183.00	90.50	88.73	6917.84	54.31 N	704.44 E	704.93	0.36
8279.00	90.17	89.71	6917.27	55.61 N	800.43 E	800.92	1.09
8374.00	90.24	89.99	6916.94	55.86 N	895.42 E	895.92	0.29
8469.00	90.57	89.56	6916.27	56.24 N	990.42 E	990.91	0.57
8564.00	90.00	89.81	6915.80	56.76 N	1085.42 E	1085.91	0.66
8659.00	90.64	89.58	6915.27	57.26 N	1180.41 E	1180.91	0.71
8754.00	90.54	89.18	6914.30	58.29 N	1275.40 E	1275.90	0.43
8849.00	90.34	91.80	6913.57	57.49 N	1370.39 E	1370.88	2.76
8945.00	90.67	91.73	6912.72	54.53 N	1466.34 E	1466.80	0.35
9040.00	90.47	91.12	6911.78	52.17 N	1561.30 E	1561.73	0.68
9135.00	89.97	94.00	6911.41	47.92 N	1656.20 E	1656.58	3.08
9230.00	90.70	93.16	6910.86	41.99 N	1751.01 E	1751.33	1.18
9324.00	90.44	93.44	6909.92	36.57 N	1844.85 E	1845.12	0.41
9420.00	90.64	93.06	6909.03	31.13 N	1940.69 E	1940.90	0.44
9514.00	90.47	93.80	6908.12	25.50 N	2034.52 E	2034.67	0.81
9609.00	90.50	93.63	6907.31	19.34 N	2129.31 E	2129.40	0.19
9705.00	90.60	93.76	6906.38	13.16 N	2225.11 E	2225.13	0.17
9800.00	90.40	94.49	6905.55	6.33 N	2319.86 E	2319.81	0.80

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<i>Measured Depth (feet)</i>	<i>Inclination (degrees)</i>	<i>Direction (degrees)</i>	<i>Vertical Depth (feet)</i>	<i>Latitude (feet)</i>	<i>Departure (feet)</i>	<i>Vertical Section (feet)</i>	<i>Dogleg (deg/100ft)</i>
9894.00	89.09	91.94	6905.96	1.06 N	2413.70 E	2413.60	3.05
9989.00	89.13	92.05	6907.44	2.25 S	2508.63 E	2508.49	0.12
10084.00	89.50	91.18	6908.58	4.93 S	2603.59 E	2603.42	0.99
10179.00	89.93	91.06	6909.05	6.78 S	2698.57 E	2698.38	0.48
10275.00	90.64	90.91	6908.58	8.43 S	2794.55 E	2794.34	0.75
10370.00	90.97	90.66	6907.24	9.73 S	2889.53 E	2889.31	0.44
10449.00	91.41	90.28	6905.60	10.38 S	2968.51 E	2968.28	0.74
10544.00	92.22	90.00	6902.59	10.61 S	3063.46 E	3063.22	0.90
10643.00	91.18	90.49	6899.66	11.03 S	3162.42 E	3162.17	1.16
10738.00	91.58	90.35	6897.38	11.73 S	3257.39 E	3257.12	0.45
10832.00	88.86	90.76	6897.02	12.64 S	3351.37 E	3351.10	2.92
10928.00	89.09	90.73	6898.73	13.89 S	3447.35 E	3447.06	0.25
11023.00	89.60	90.27	6899.82	14.72 S	3542.34 E	3542.03	0.72
11118.00	89.66	89.94	6900.43	14.89 S	3637.34 E	3637.03	0.35
11213.00	90.84	88.97	6900.02	13.99 S	3732.33 E	3732.02	1.61
11308.00	89.19	89.35	6899.99	12.59 S	3827.32 E	3827.02	1.78
11403.00	90.27	89.04	6900.44	11.25 S	3922.30 E	3922.01	1.18
11498.00	91.08	88.30	6899.32	9.04 S	4017.27 E	4017.00	1.15
11592.00	89.63	88.75	6898.74	6.63 S	4111.23 E	4110.98	1.61
11687.00	90.20	88.31	6898.88	4.20 S	4206.20 E	4205.97	0.76
11783.00	90.77	87.67	6898.06	0.83 S	4302.14 E	4301.93	0.90
11878.00	89.19	87.63	6898.09	3.06 N	4397.06 E	4396.88	1.67
11974.00	90.10	87.54	6898.68	7.11 N	4492.97 E	4492.83	0.95
12069.00	90.91	87.00	6897.84	11.63 N	4587.85 E	4587.76	1.02
12164.00	89.73	89.06	6897.31	14.90 N	4682.79 E	4682.72	2.50
12259.00	90.24	88.50	6897.34	16.92 N	4777.77 E	4777.71	0.79
12355.00	90.87	87.81	6896.42	20.01 N	4873.71 E	4873.68	0.98
12450.00	88.08	89.26	6897.28	22.44 N	4968.67 E	4968.65	3.31
12545.00	88.39	88.72	6900.21	24.12 N	5063.61 E	5063.60	0.65
12640.00	88.66	88.10	6902.65	26.76 N	5158.54 E	5158.56	0.71
12736.00	89.46	88.00	6904.23	30.02 N	5254.47 E	5254.51	0.84
12831.00	90.64	87.63	6904.15	33.65 N	5349.40 E	5349.47	1.29
12927.00	91.18	87.44	6902.63	37.77 N	5445.30 E	5445.41	0.60
13022.00	92.02	86.98	6899.98	42.40 N	5540.15 E	5540.30	1.01
13117.00	90.64	89.89	6897.78	44.99 N	5635.07 E	5635.24	3.39
13211.00	91.01	89.45	6896.43	45.53 N	5729.06 E	5729.23	0.61
13307.00	88.08	91.68	6897.19	44.59 N	5825.04 E	5825.20	3.83
13401.00	88.32	91.38	6900.14	42.08 N	5918.96 E	5919.09	0.40
13496.00	88.59	91.56	6902.71	39.64 N	6013.89 E	6013.99	0.34
13592.00	90.10	91.40	6903.80	37.16 N	6109.85 E	6109.92	1.59
13688.00	90.97	89.90	6902.90	36.08 N	6205.83 E	6205.90	1.81
13783.00	91.65	89.66	6900.73	36.45 N	6300.81 E	6300.87	0.75
13878.00	88.39	87.73	6900.70	38.61 N	6395.77 E	6395.84	3.99
13973.00	88.96	87.74	6902.90	42.37 N	6490.67 E	6490.77	0.60
14069.00	89.56	87.91	6904.14	46.01 N	6586.59 E	6586.73	0.66
14164.00	89.97	87.70	6904.53	49.65 N	6681.52 E	6681.69	0.48
14267.00	89.97	87.70	6904.59	53.78 N	6784.44 E	6784.64	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 89.45 DEGREES (TRUE)
A TOTAL CORRECTION OF 7.76 DEG FROM MAGNETIC NORTH TO TRUE NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 14267.00 FEET
IS 6784.65 FEET ALONG 89.55 DEGREES (TRUE)**

Final survey is a projection to bit.