



1 : 600 / 1 : 240

WELL INFORMATION					
MWD Run Number	100	200			
Date run completed	29-Dec-15	31-Dec-15			
Rig Bit Number	2	3			
Bit Size (in)	8.750	6.125			
Tool Nominal OD (in)	6.750	4.750			
Log Start Depth (MD, ft)	619.00	6,320.00			
Log End Depth (MD, ft)	6,320.00	10,030.00			
Drill or Wipe	Drill	Drill			
Drill/Wipe Start Date and Time	28-Dec-15 11:18	30-Dec-15 18:00			
Drill/Wipe End Date and Time	29-Dec-15 12:00	31-Dec-15 14:15			
Min Inc (deg) @ Depth (MD, ft)	0.22 @ 1,750.00	87.63 @ 6,426.00			
Max Inc (deg) @ Depth (MD, ft)	80.26 @ 6,265.00	92.59 @ 9,639.00			
Bit TFA(in2) / Bit Type	0.98 / PDC	0.65 / PDC			
Flow Rate (gpm)	588.24	316.79			
Max AV (fpm) / CV (fpm) @ MWD	N/A / N/A	N/A / N/A			
Fluid Type	Fresh Water Gel	Fresh Water Gel			
Density (ppg) / Viscosity (spqt)	9.47 / 46.00	9.75 / 49.00			
Filtrate CL (ppm)	500.00	1,600.00			
pH / Fluid Loss (mptm)	10.30 / 8	8.30 / 9			
PV (cP) / YP (Ihf2)	13 / 12.00	6 / 5.00			
% Solids / % Sand	10.40 / 0.40	7.40 / 0.10			
% Oil / Oil:Water Ratio	N/A / N/A	N/A / N/A			
Rm @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A			
Rmf @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A			
Rmc @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A			
Max Tool Temp (in) F / C	162.00 / 67.00	202.00 / 78.00			

Max Tool Temp (degF) / Source	162.80 / PCM	209.20 / PCM			
Rm @ Max Tool Temp (degF)	N/A @ 162.80	N/A @ 209.20			
Lead MWD Engineer	Adam Sampson	Paul Kock			
Customer Representative	Justin Fields	Justin Fields			

SENSOR INFORMATION

Downhole Processor Information

Tool Type	PCM	PCM			
Software Version	5.93	5.93			
Sub Serial Number	11619287	12187588			
Insert Serial Number	11400901	11680784			
Date and Time Initialized	27-Dec-15 10:11	30-Dec-15 09:38			
Date and Time Read	29-Dec-15 18:17	31-Dec-15 22:24			
ECMB SW Version	N/A	N/A			

Directional Sensor Information

Tool Type	PCDC	PCDC			
Distance From Bit (ft)	55.00	67.00			
Software Version	6.33	6.33			
Sub Serial Number	11619287	12187588			
Sonde Serial Number	11478096	10859920			
Sensor ID Number	N/A	N/A			
Toolface Offset (deg)	219.10	339.80			

Gamma Ray Sensor Information

Tool Type	PCG	PCG			
Distance From Bit (ft)	43.03	54.79			
Recorded Sample Period (sec)	10	10			
Software Version	8.15	8.15			
Sub Serial Number	11619287	12187588			
Insert/Sonde Serial Number	11293307	11579789			

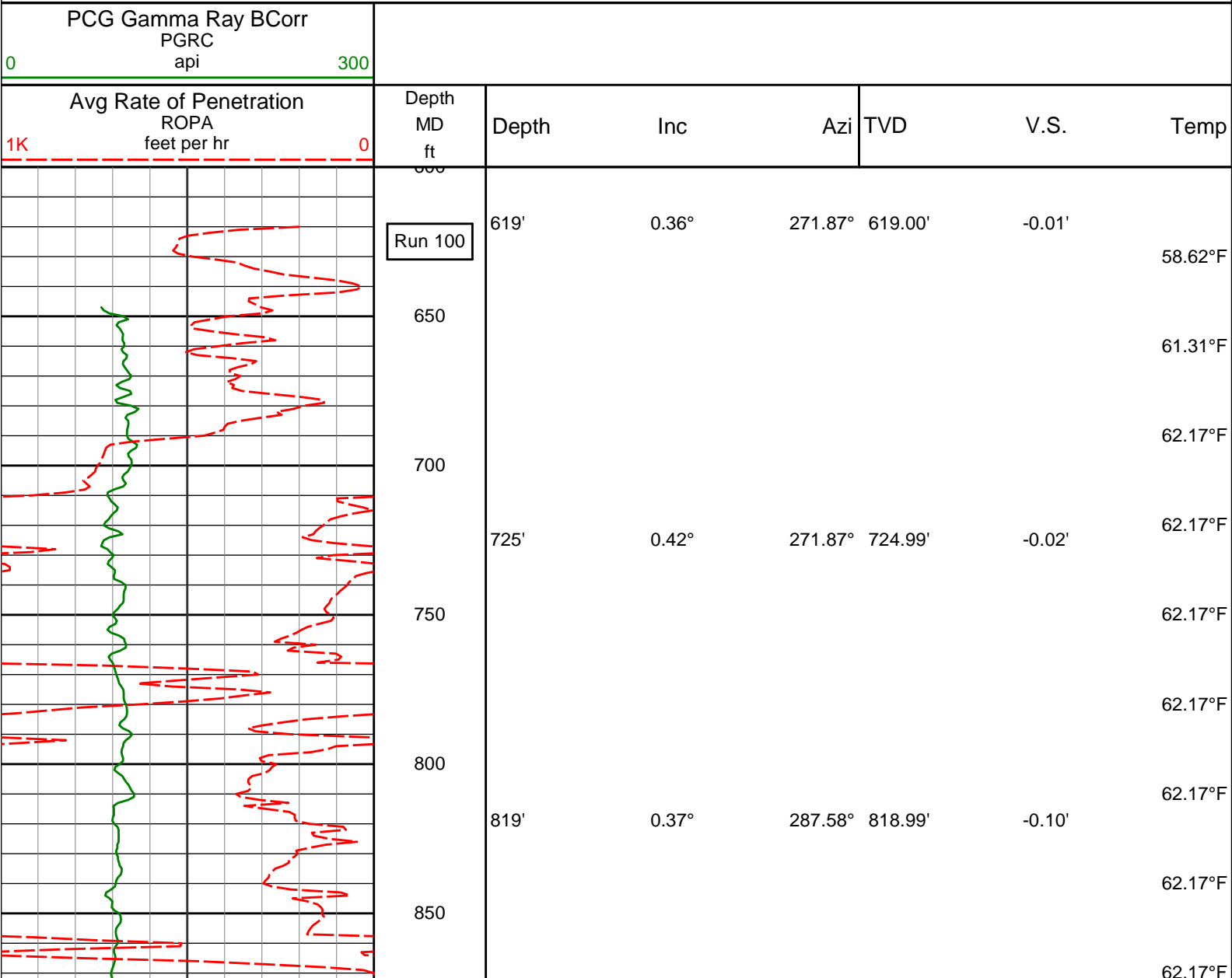
REMARKS

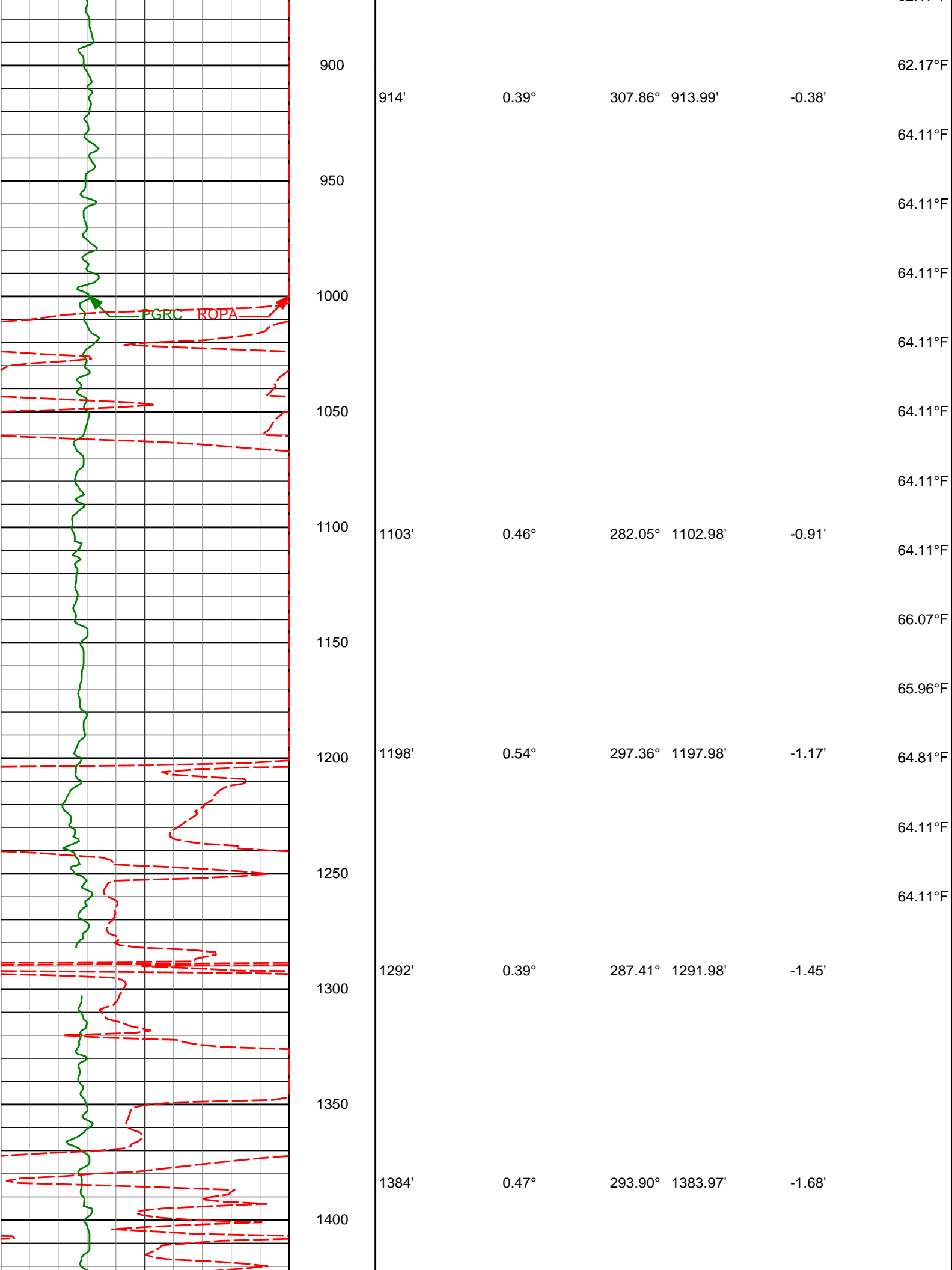
1. All depths are calibrated to the driller's pipe tally and are measured bit depths, measured from the drill floor.
2. No depth corrections have been made for pipe stretch or compression.
3. Critical annular velocities have been calculated using the "Power Law" model for water based fluids and the "Bingham Plastic" model for synthetic and oil based fluids.
4. All data presented is recorded (memory) data unless otherwise stated
ROPA is realtime data
5. Gaps in data are due to high ROP
6. The following smoothing parameters have been applied to the data
1: 600
All curves: 1 ft interval, 3 ft coercion distance, 5 ft gap fill
1: 240
ROPA: 0.5 ft interval, 1.2 ft coercion distance, 3 ft gap fill
PGRC: 0.5 ft interval, 0.6 ft coercion distance, 3 ft gap fill
7. Insite Version 8.3.0

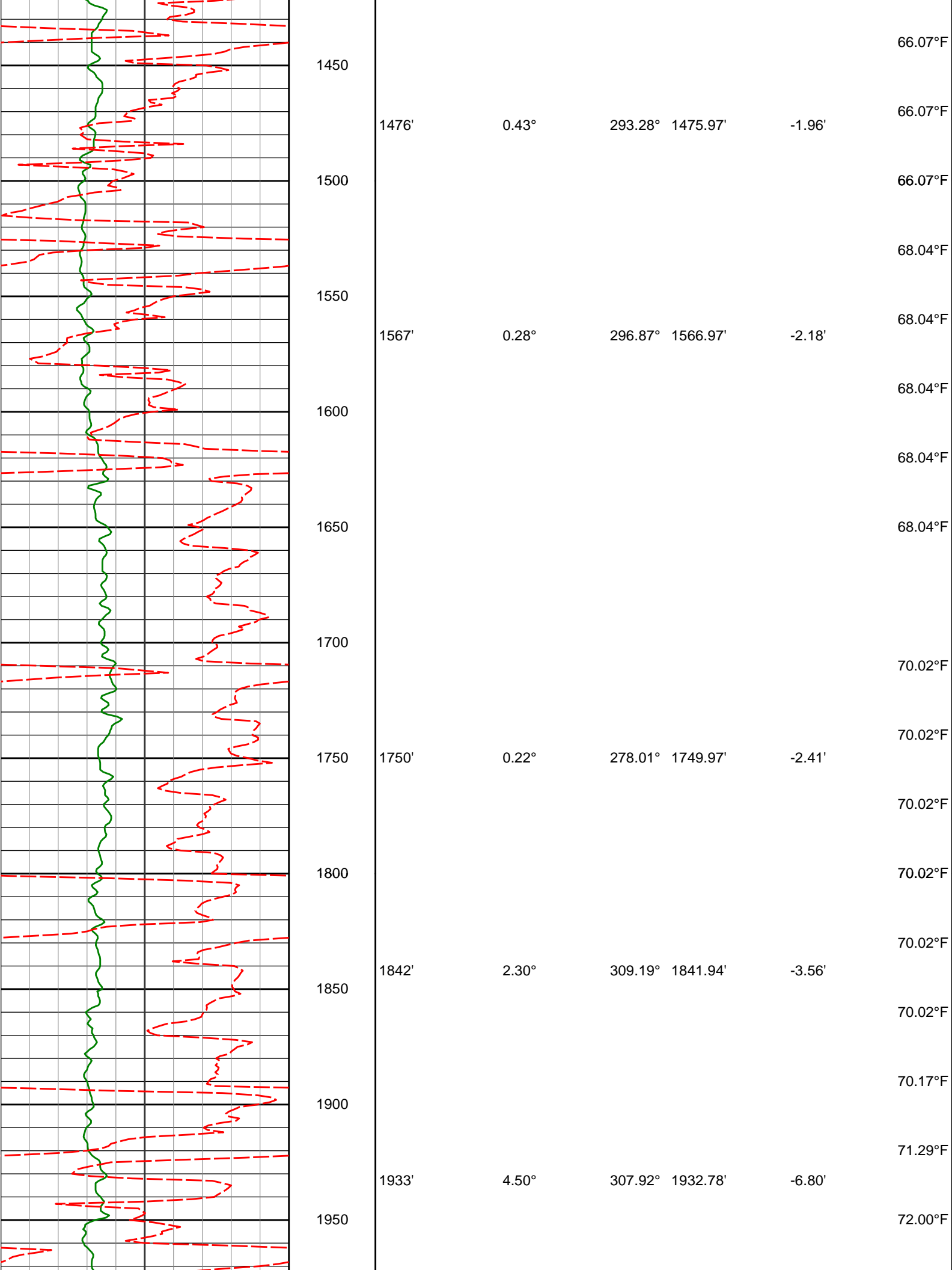
WARRANTY

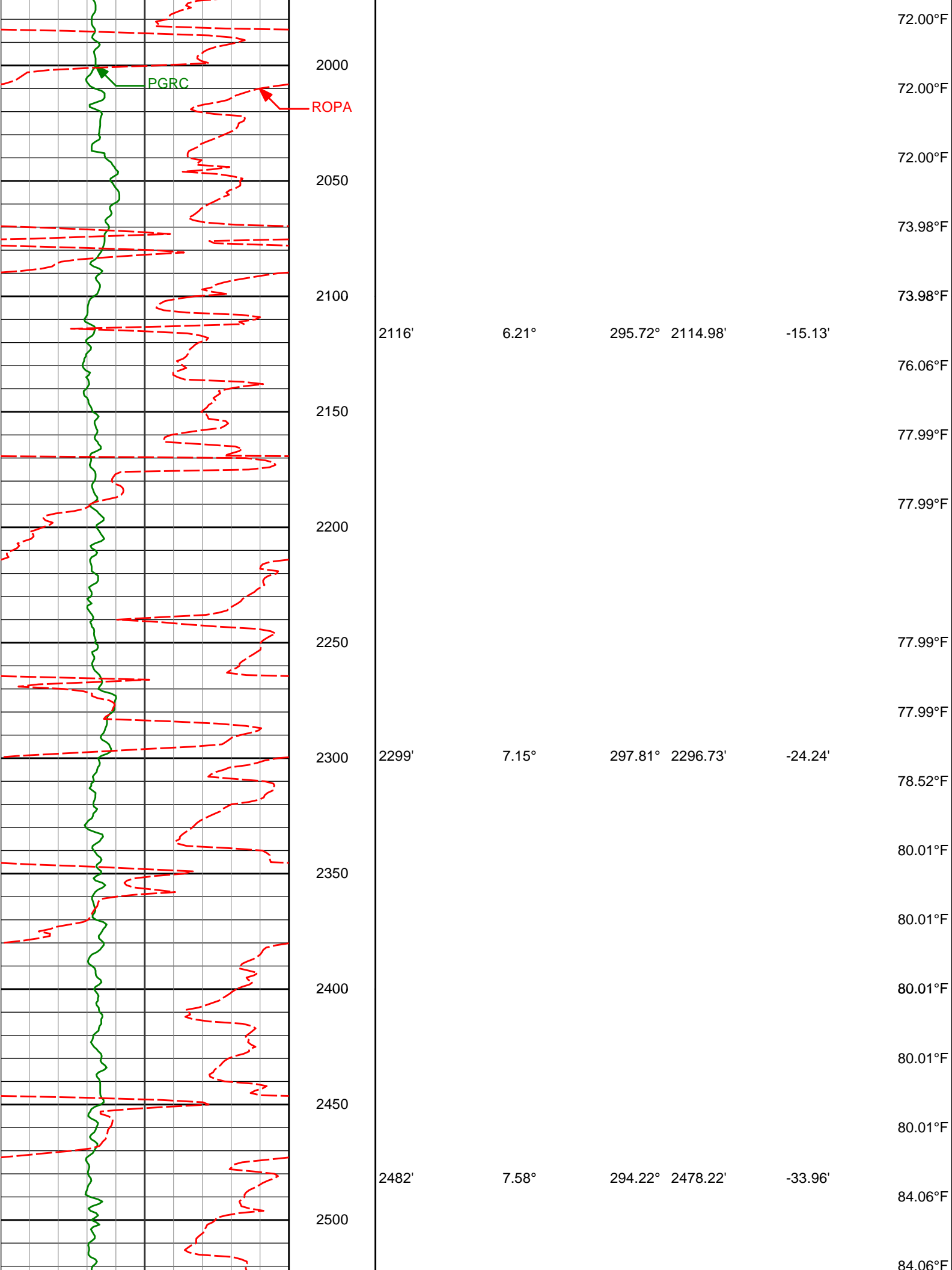
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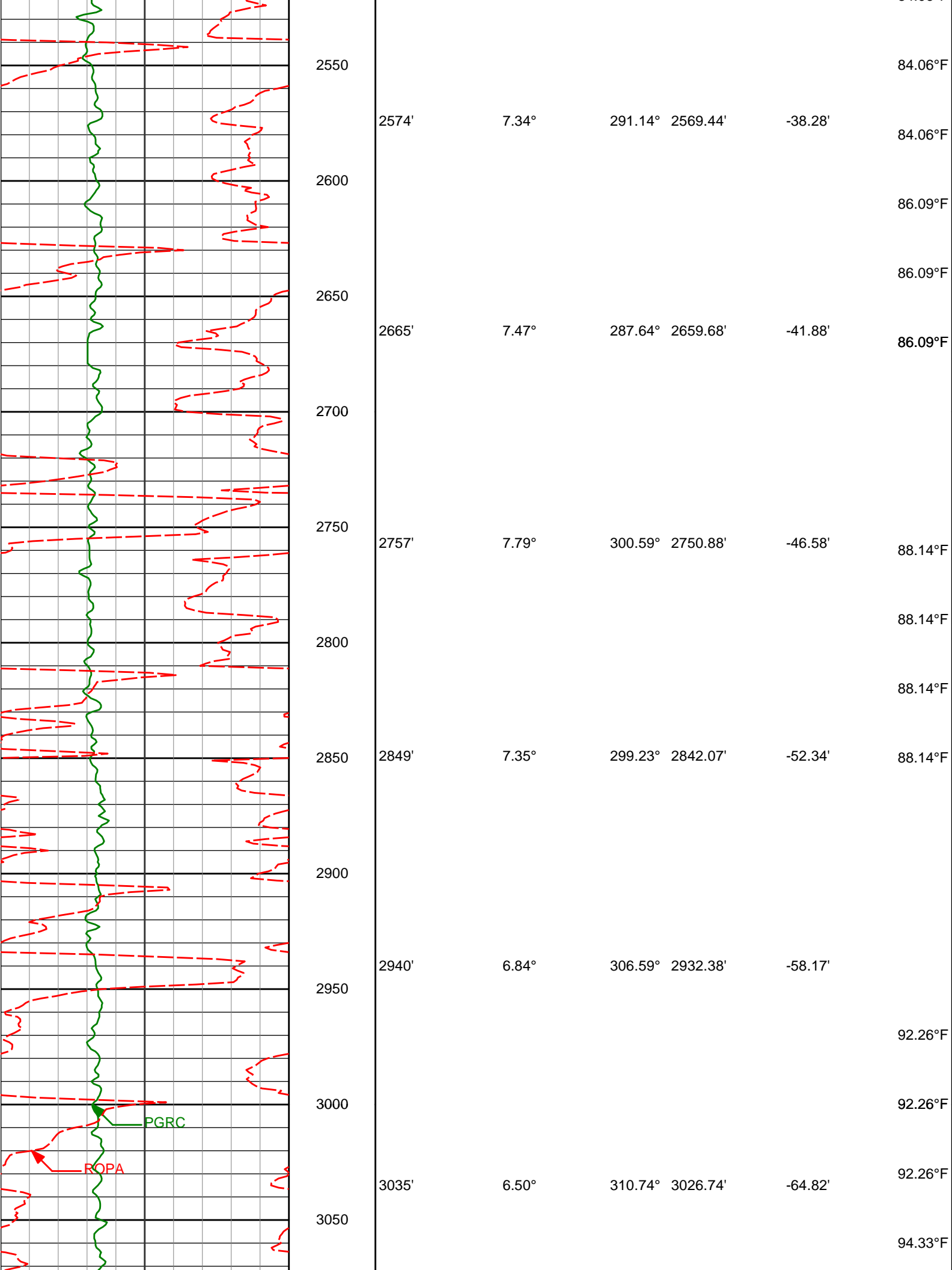
MD Detail 1:600 Scale

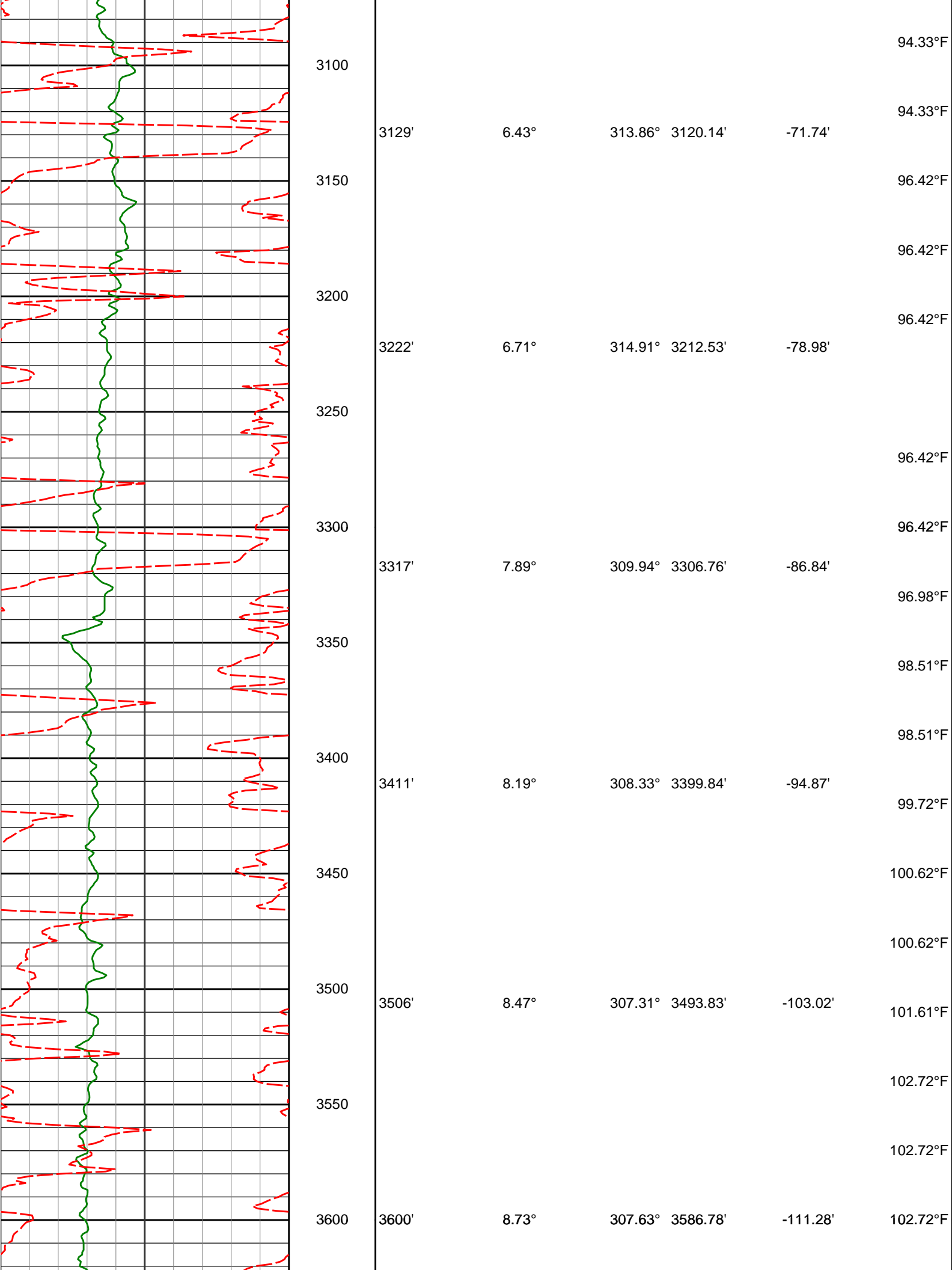


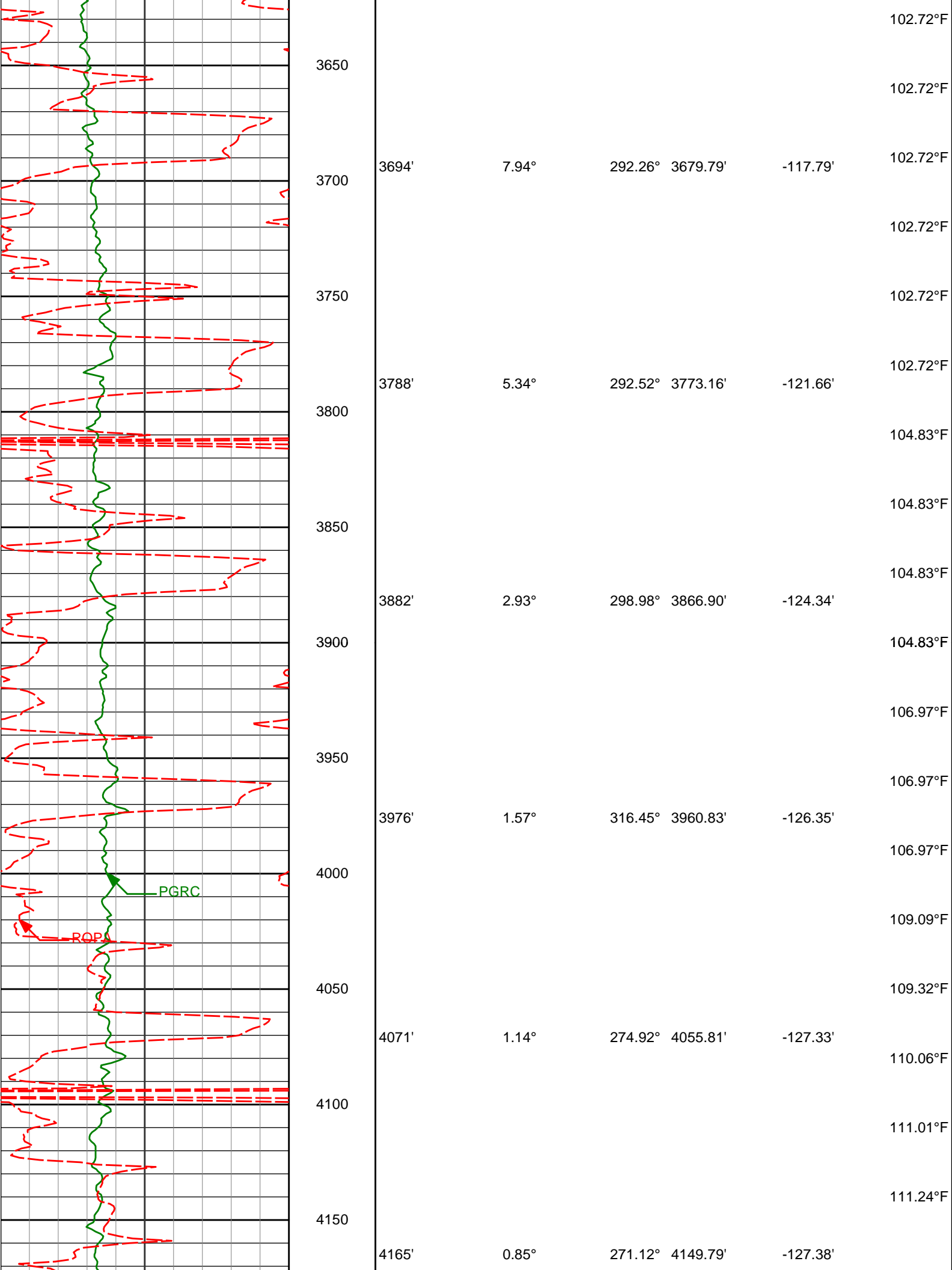


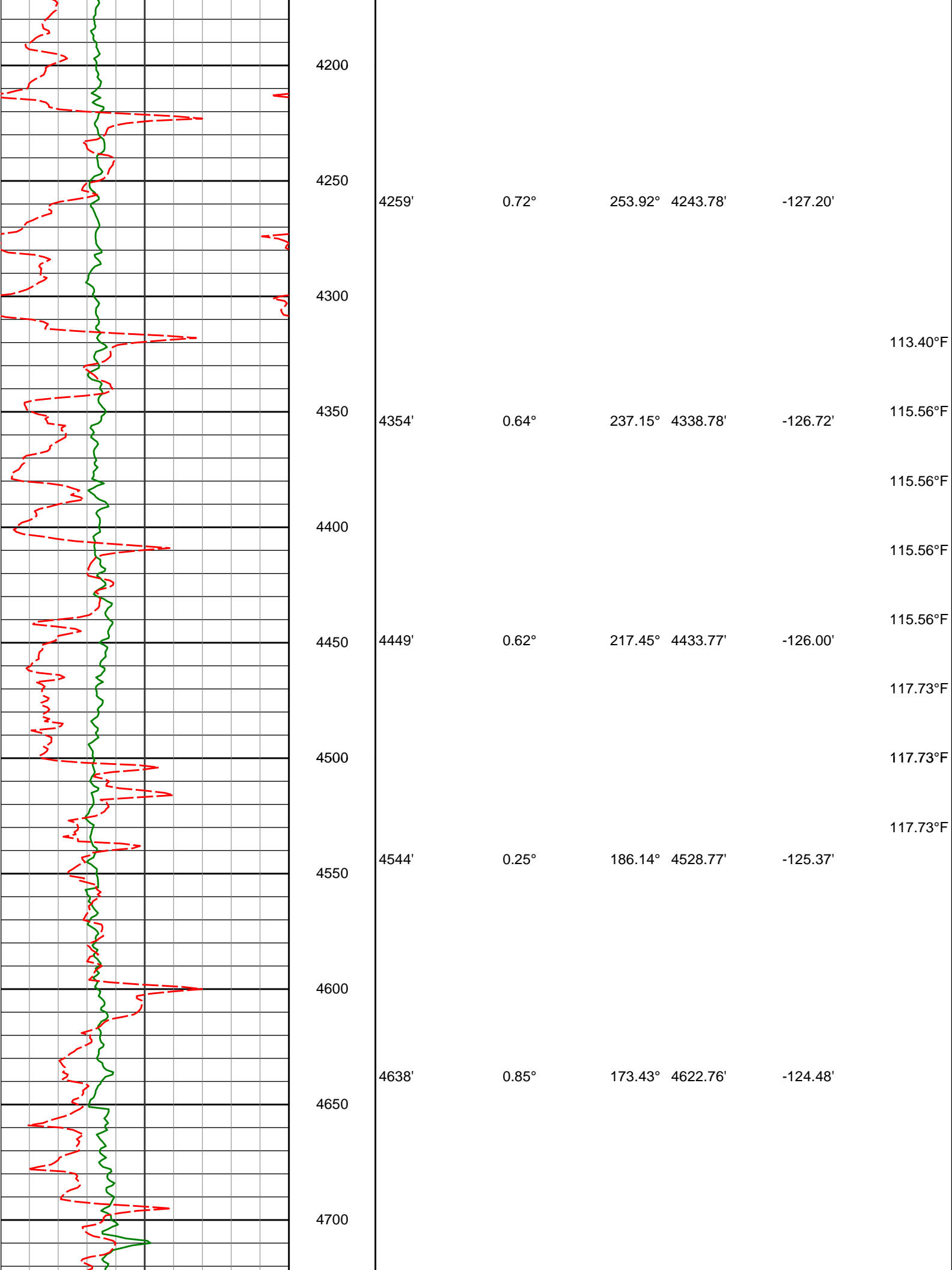


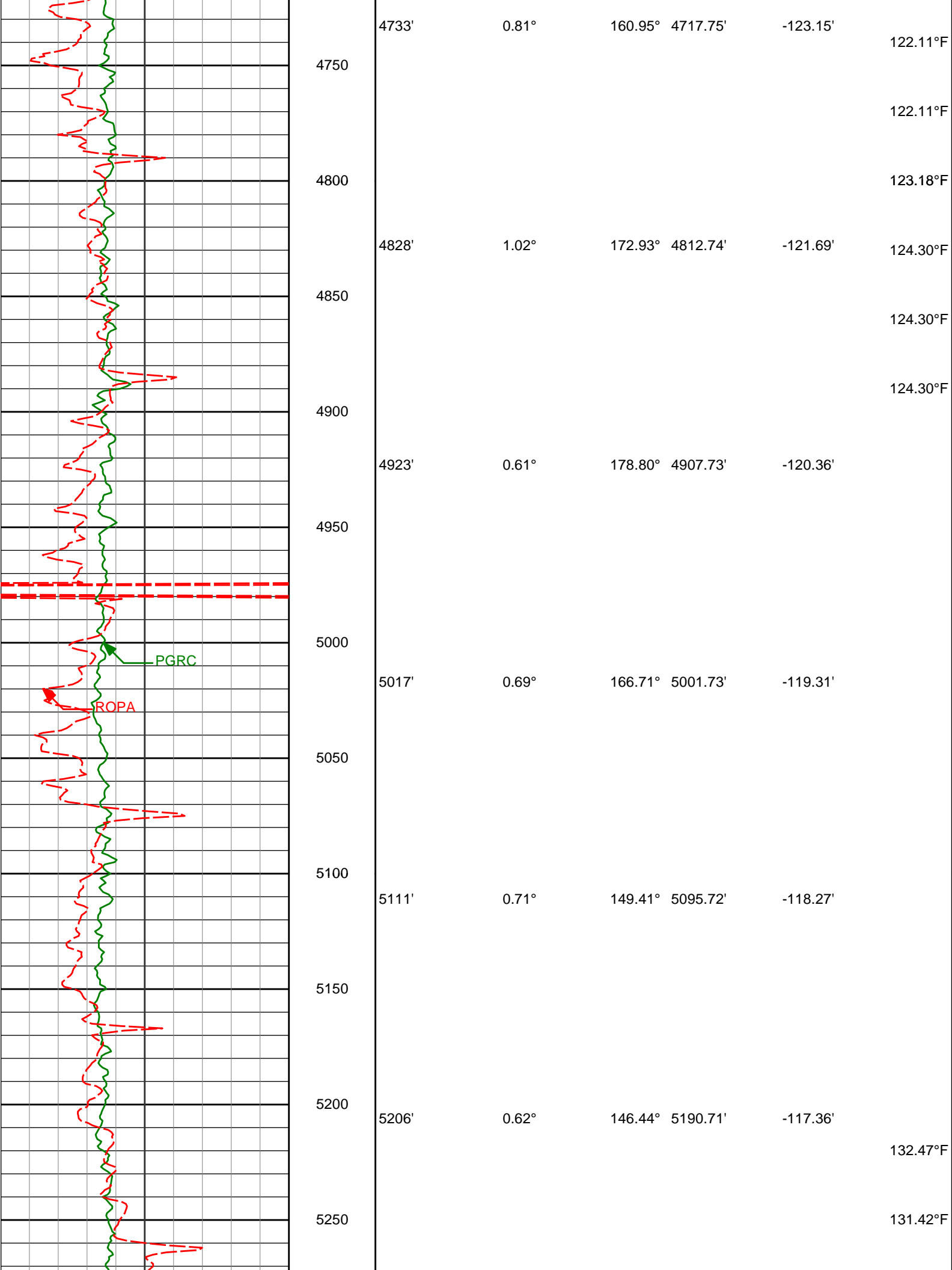


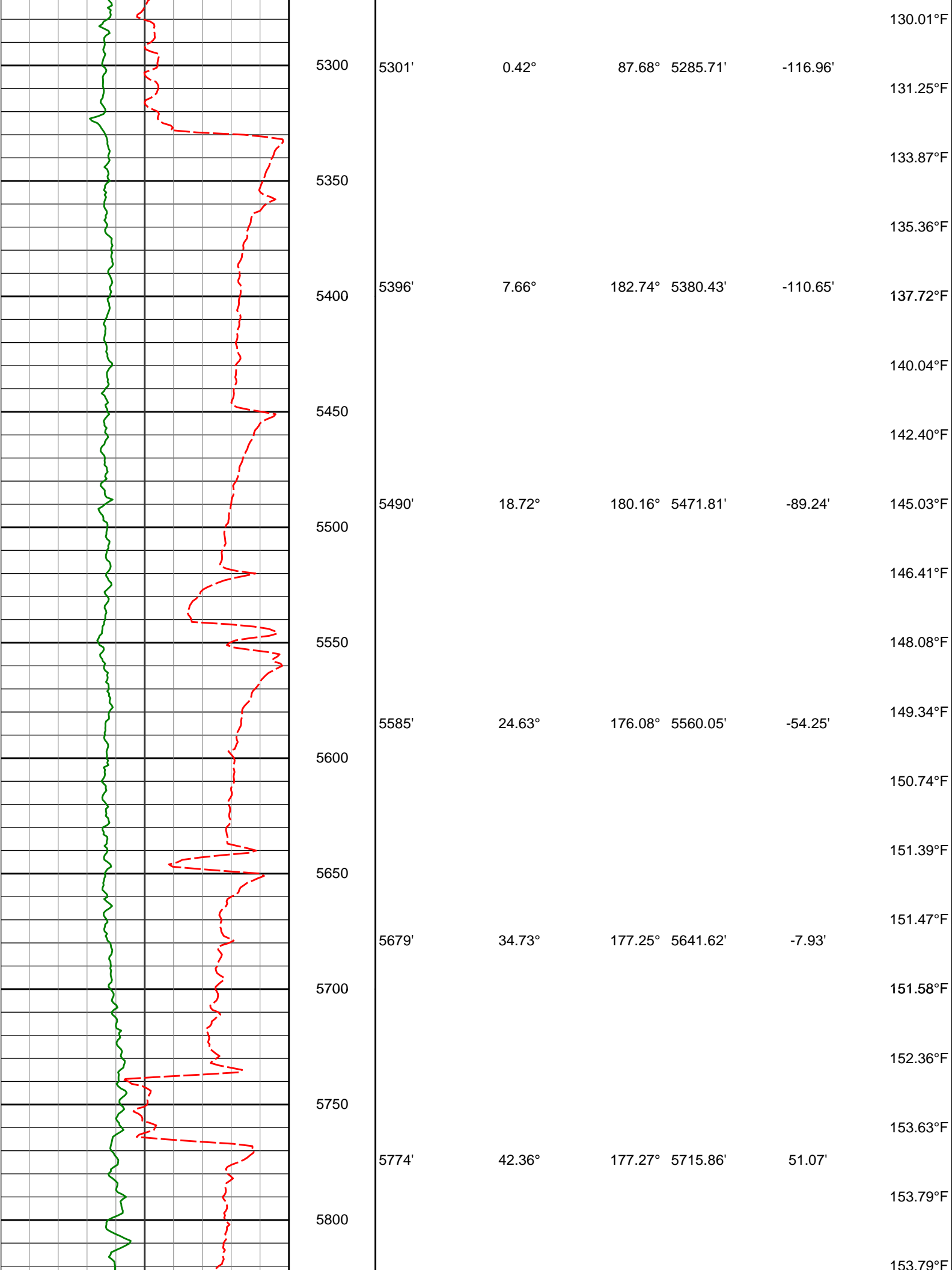


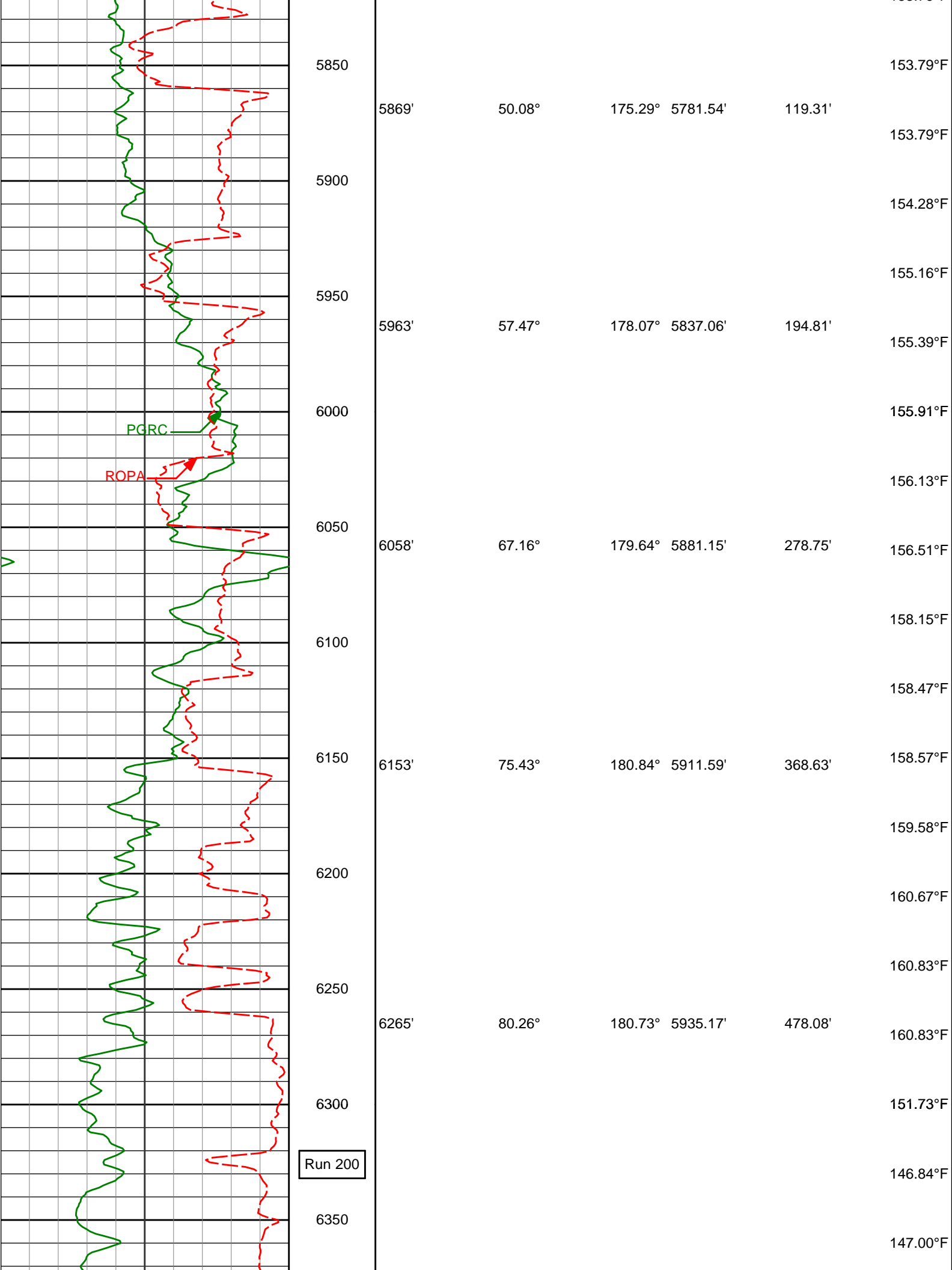


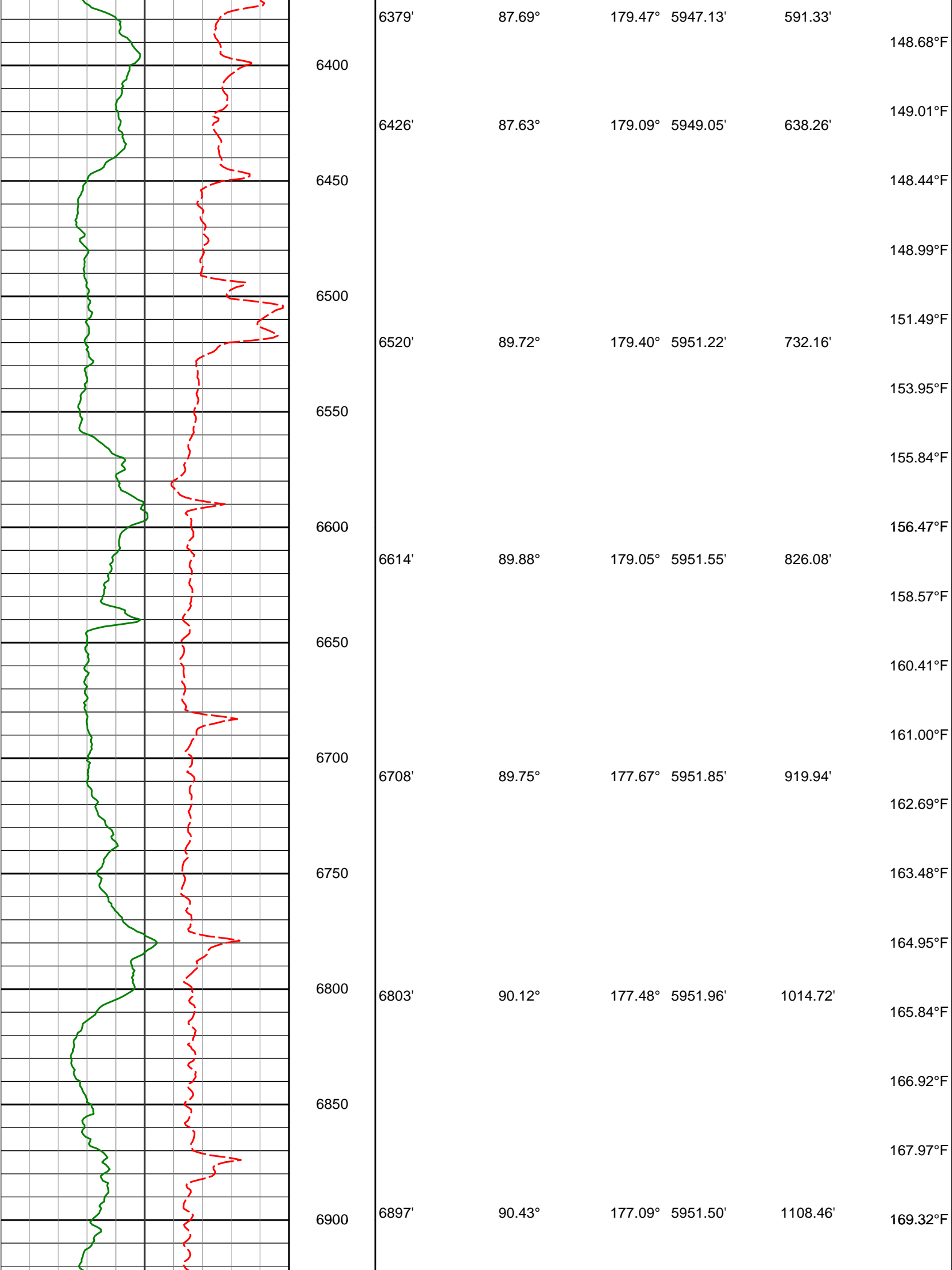


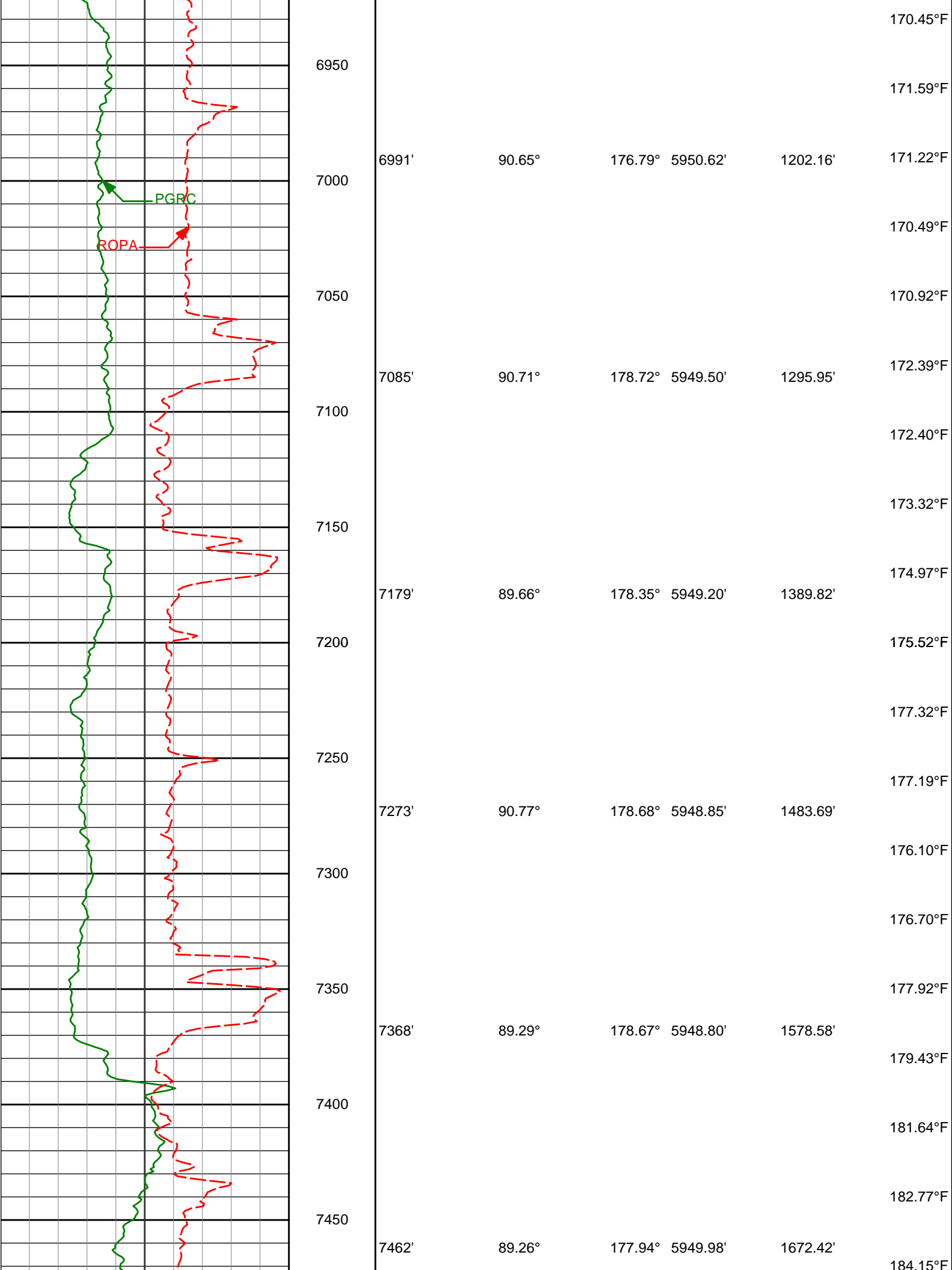


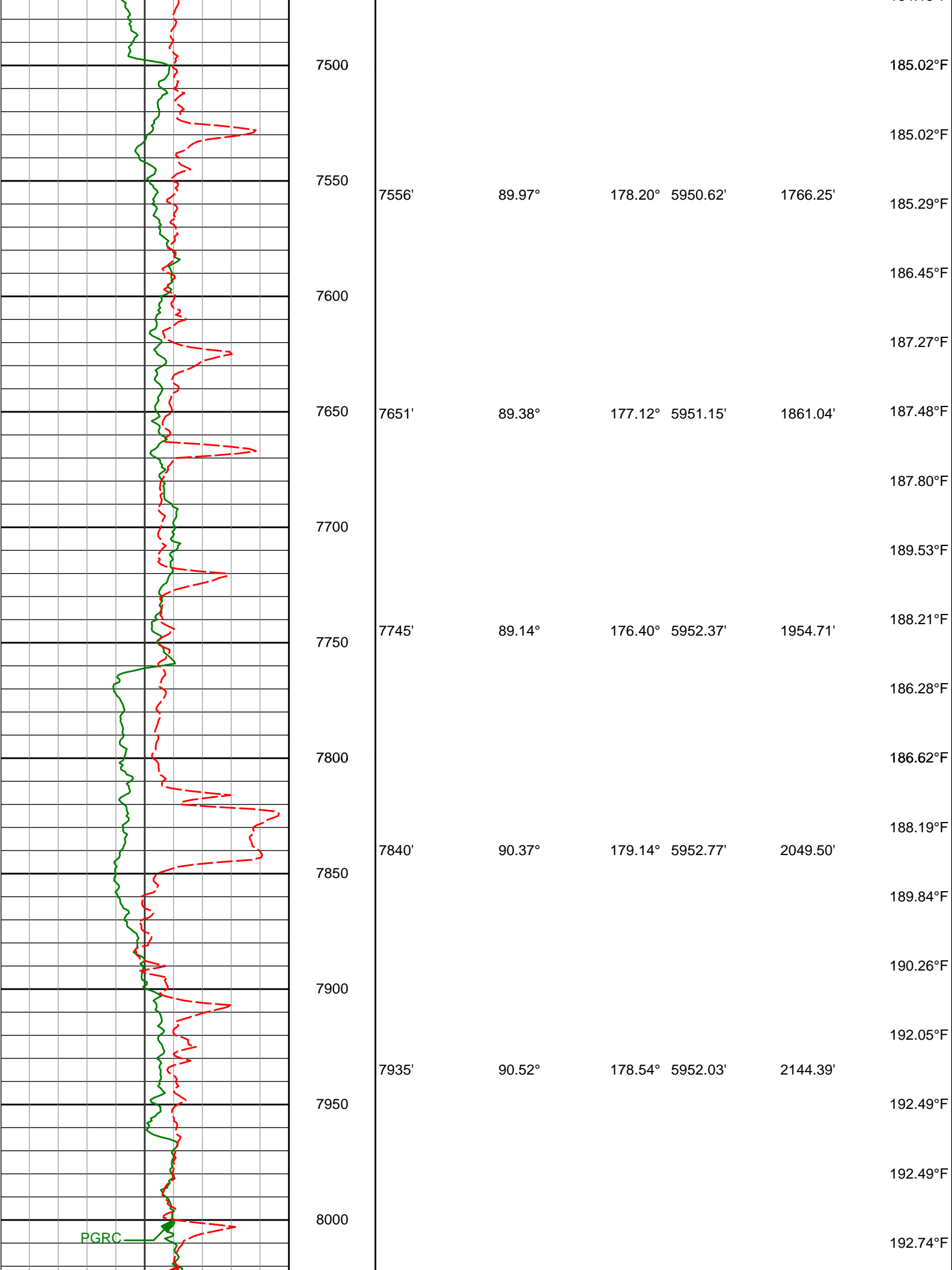


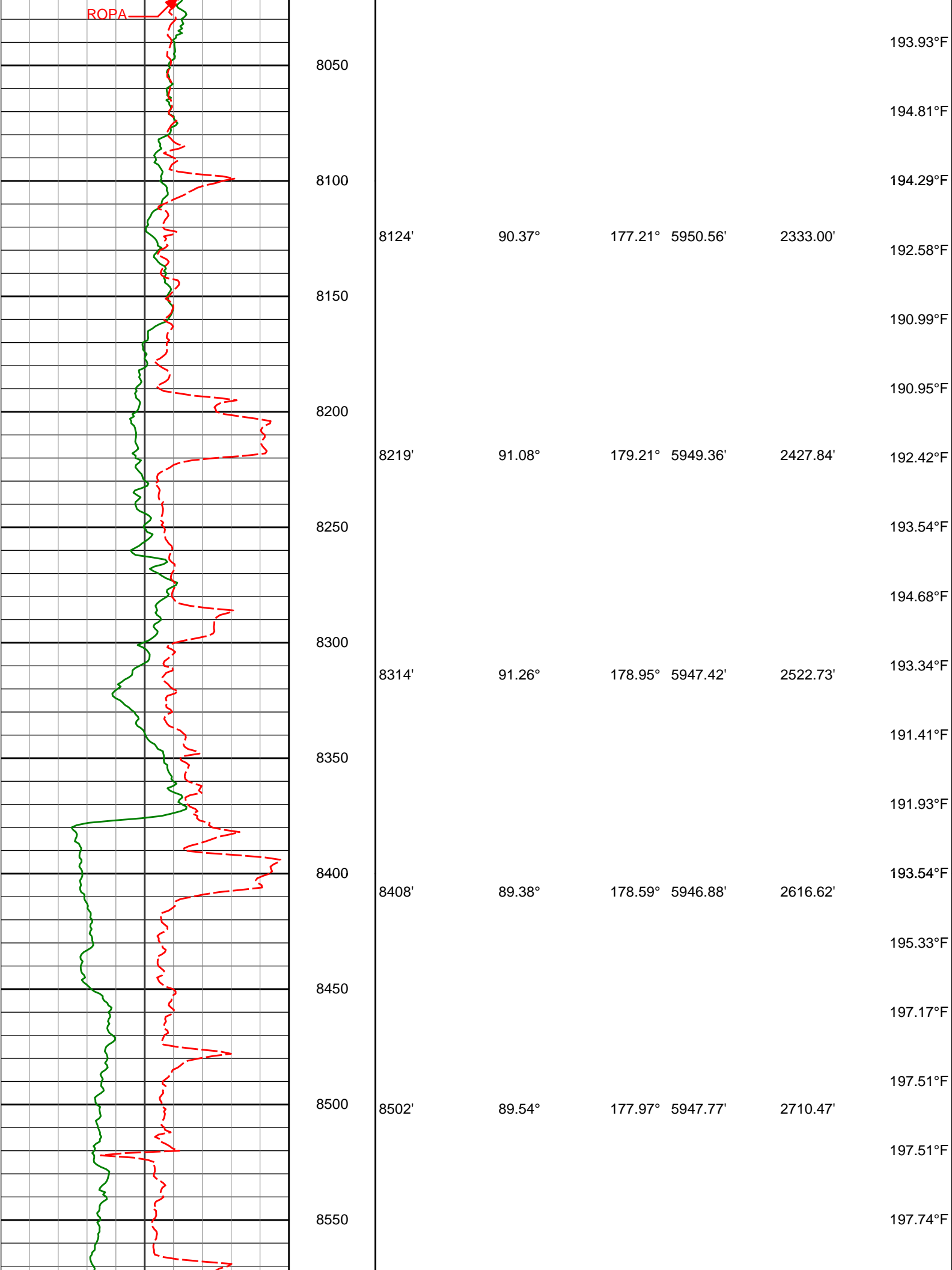


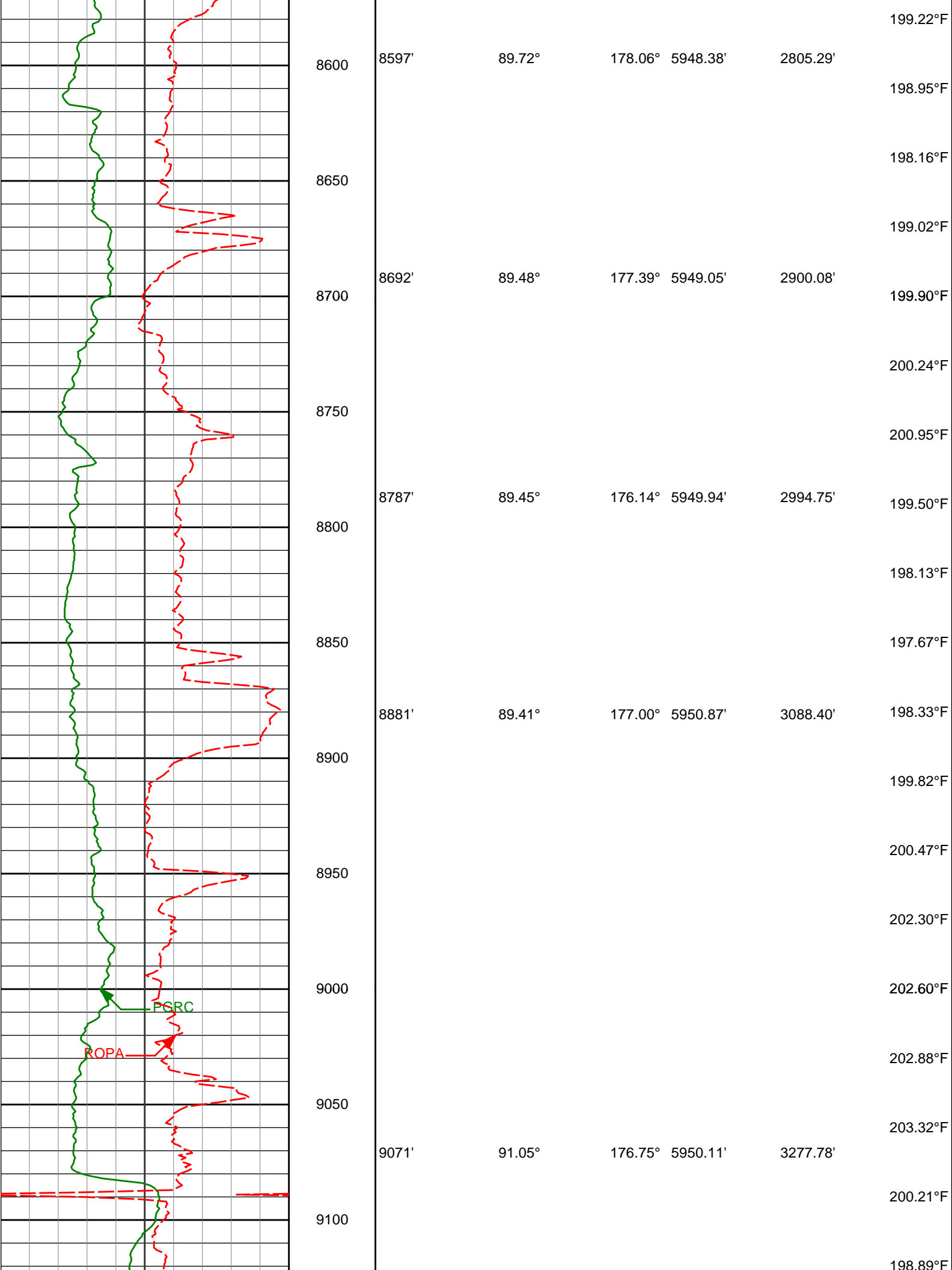


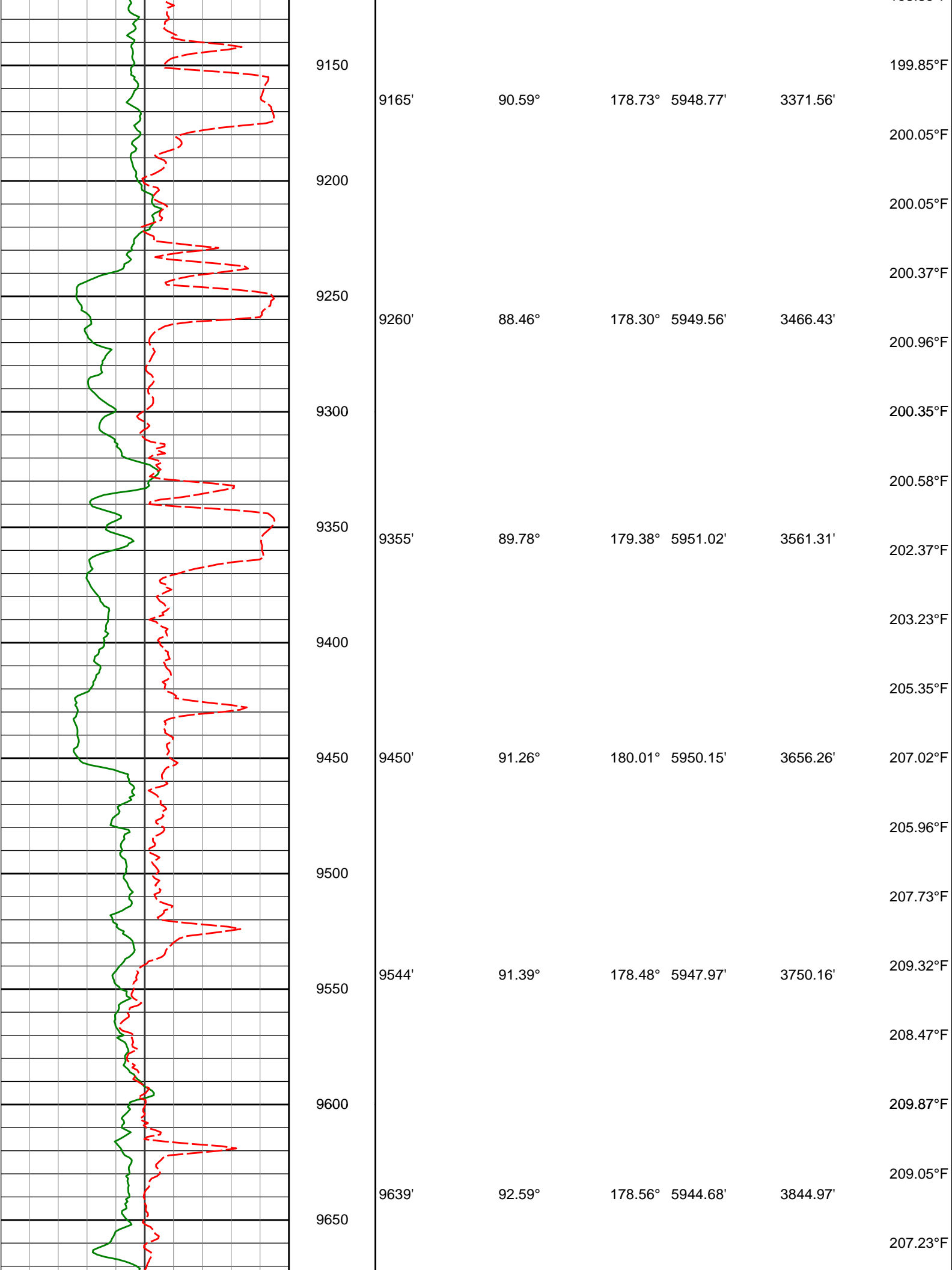


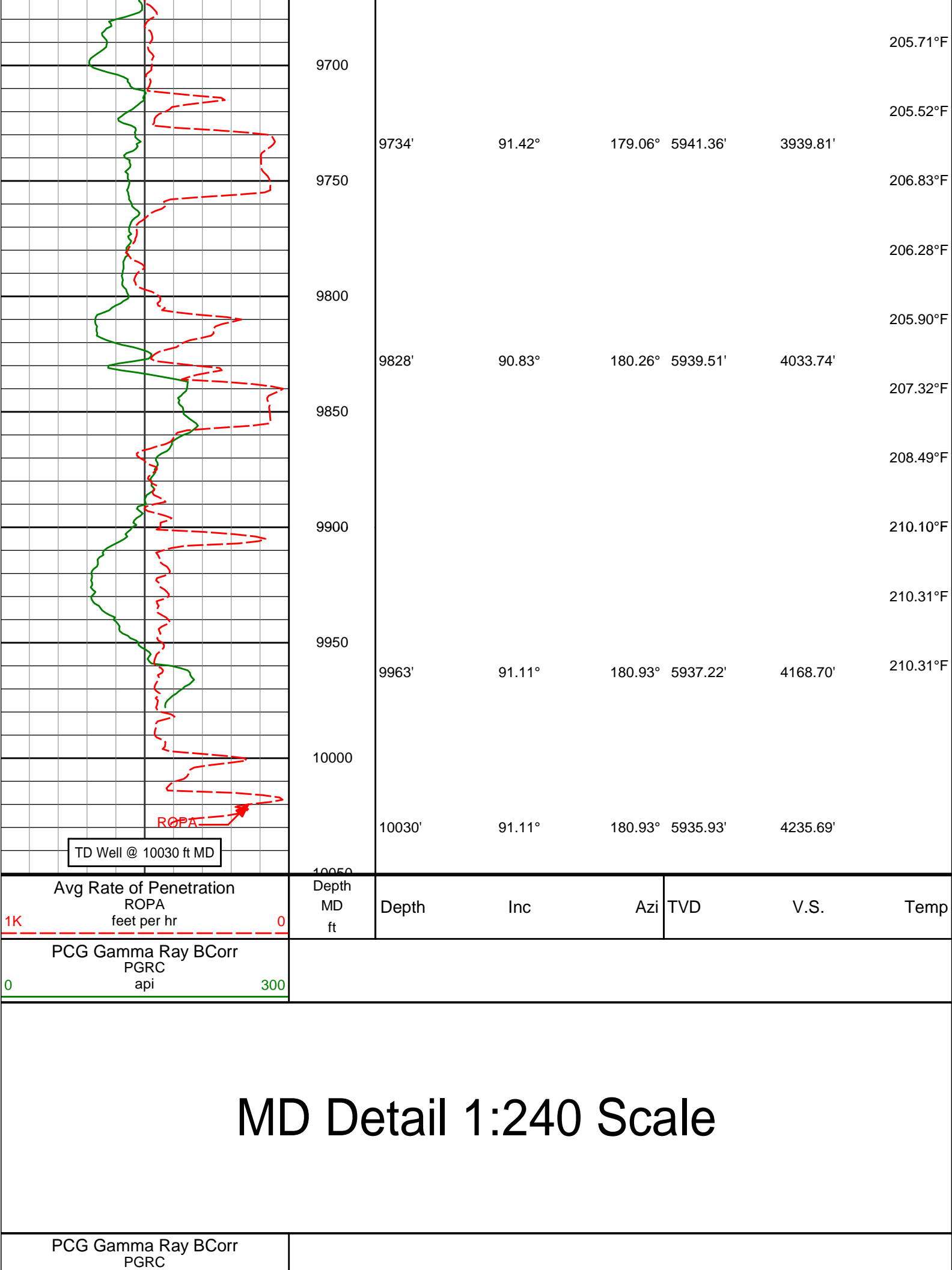


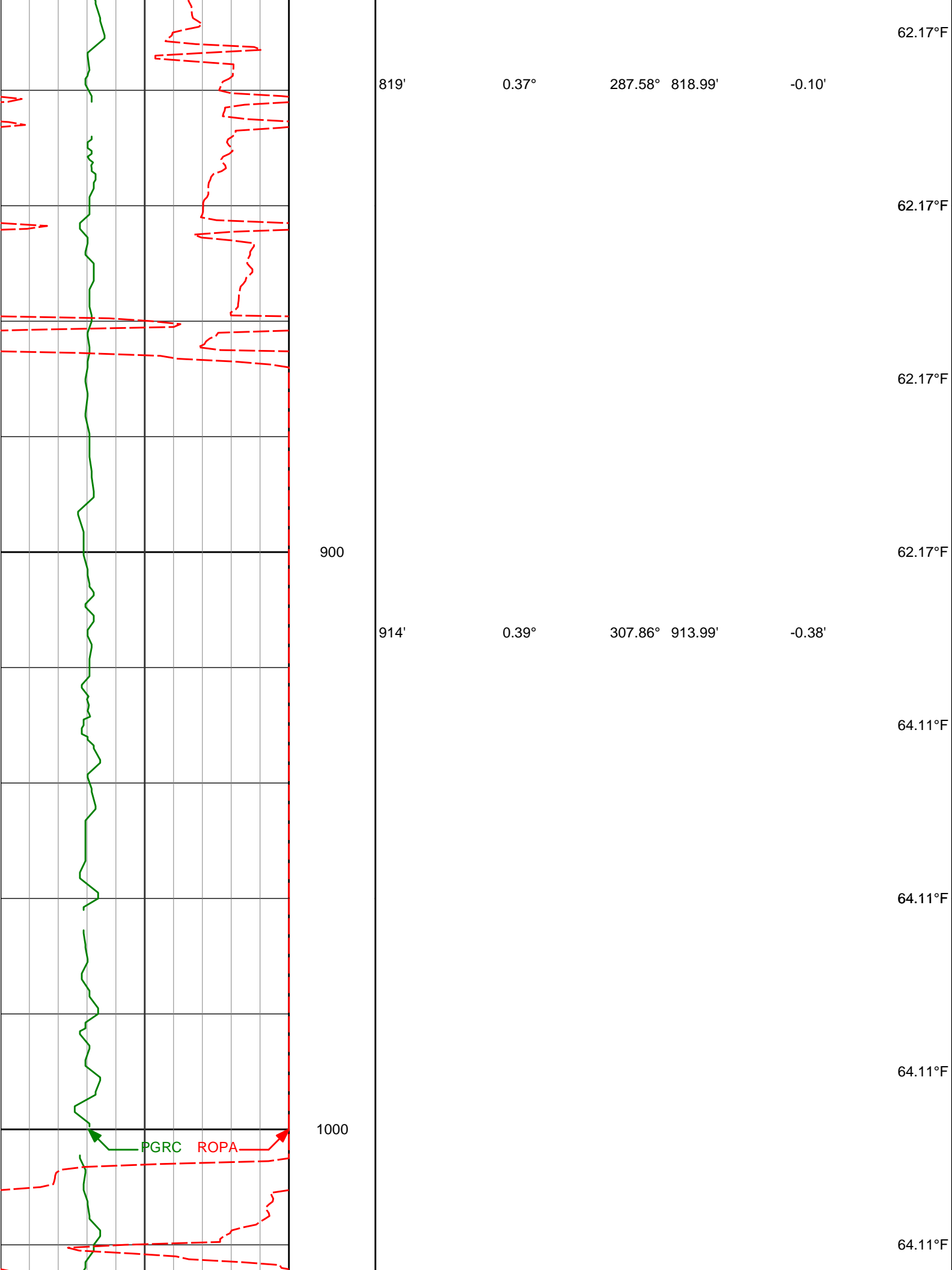


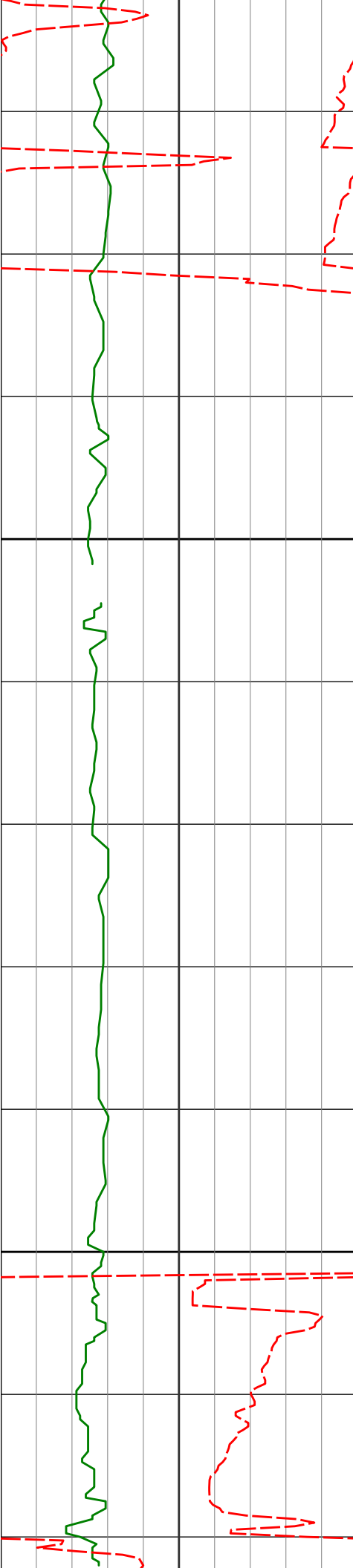












1100

1200

1103'

1198'

0.46°

0.54°

282.05°

297.36°

1102.98'

1197.98'

-0.91'

-1.17'

64.11°F

64.11°F

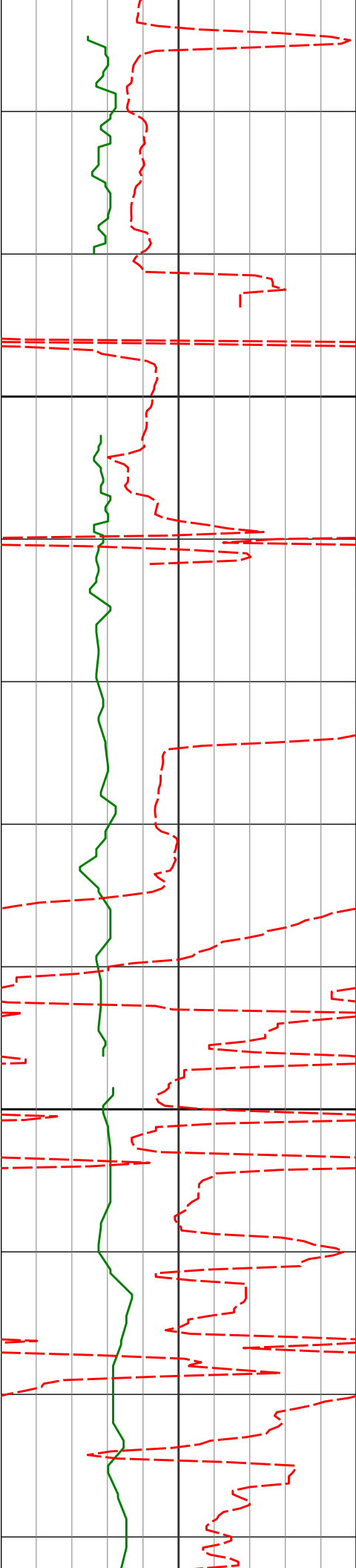
64.11°F

66.07°F

65.96°F

64.81°F

64.11°F



1300

1400

1292'

0.39°

287.41° 1291.98'

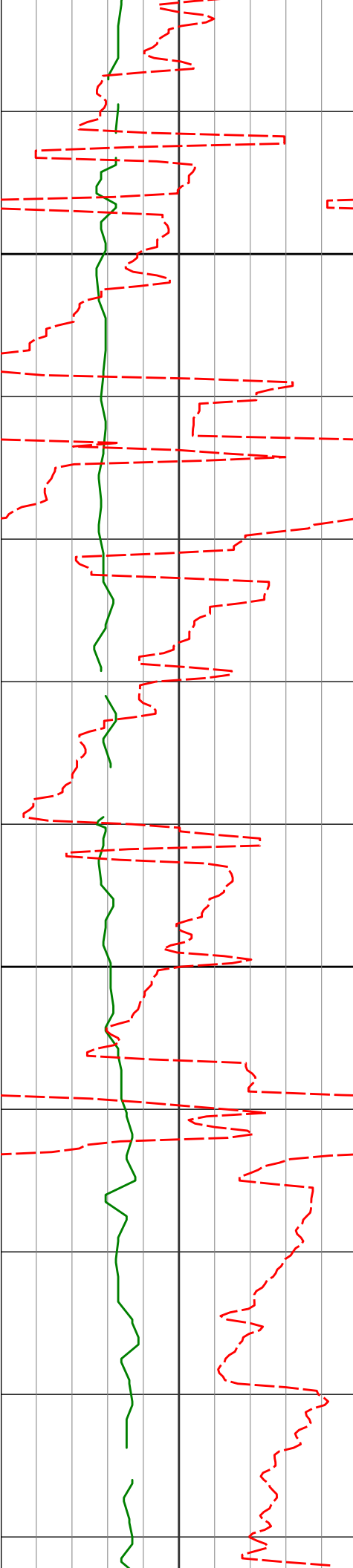
-1.45'

1384'

0.47°

293.90° 1383.97'

-1.68'



1500

1600

1476'

0.43°

293.28° 1475.97'

-1.96'

1567'

0.28°

296.87° 1566.97'

-2.18'

66.07°F

66.07°F

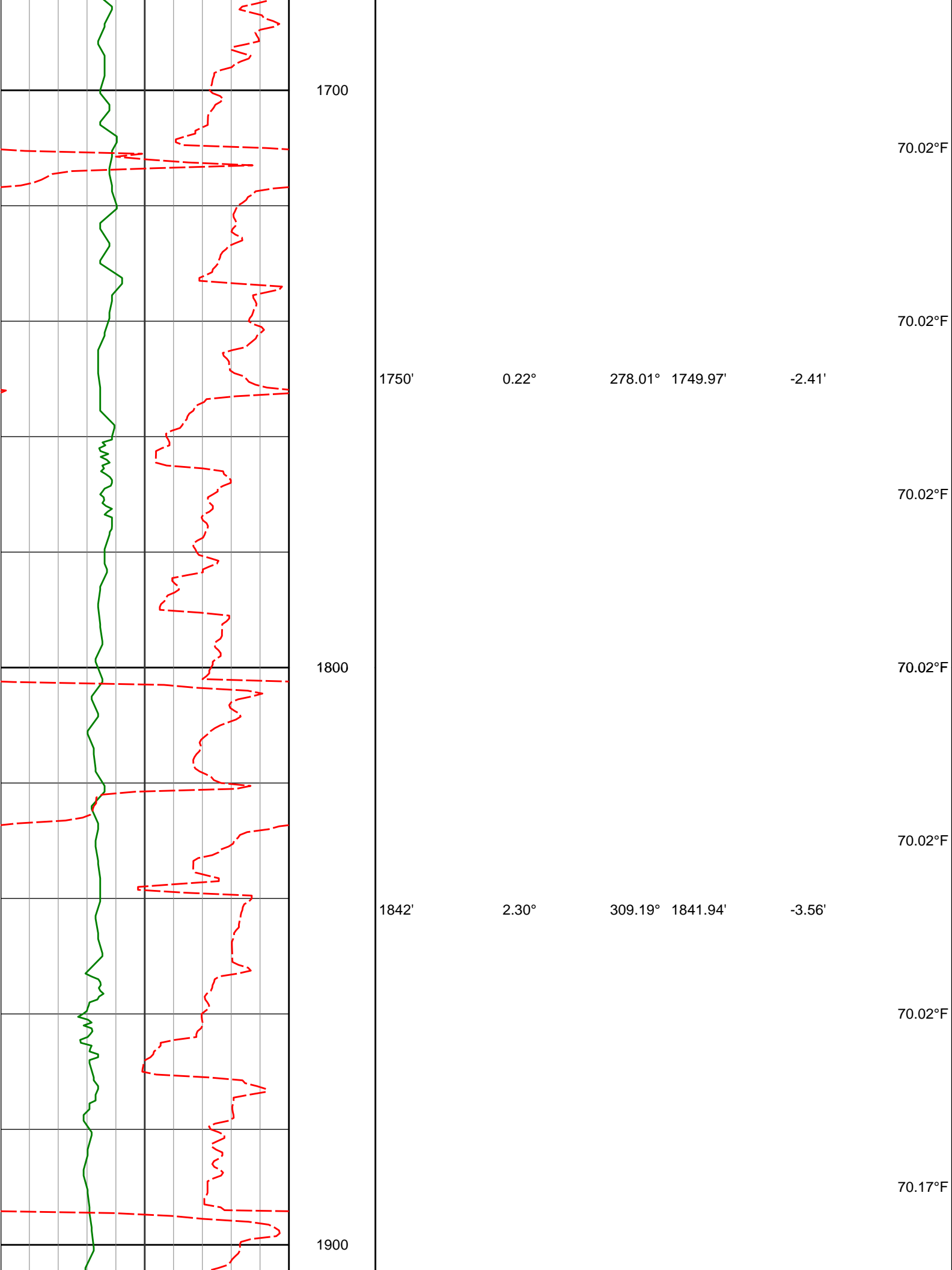
68.04°F

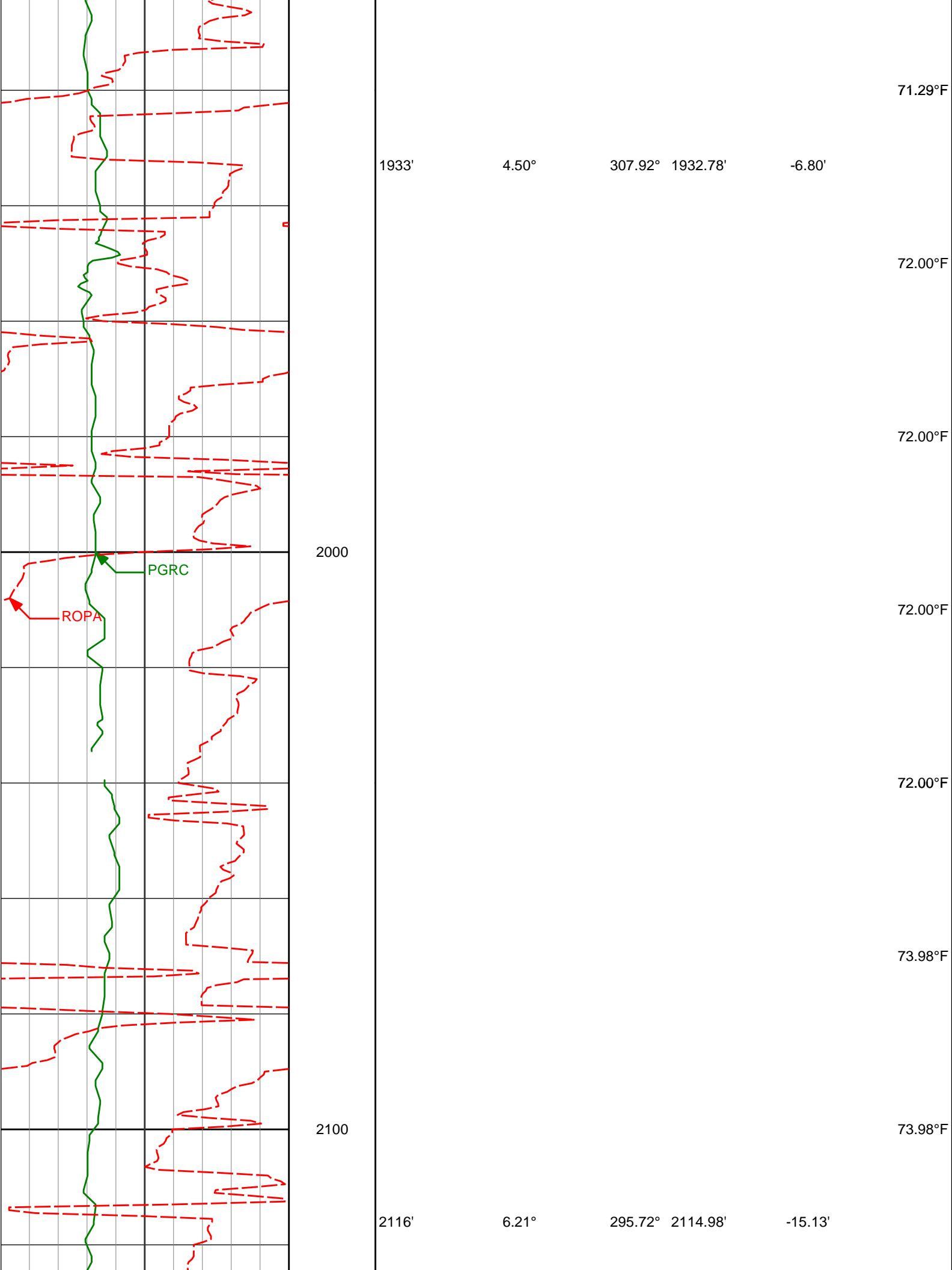
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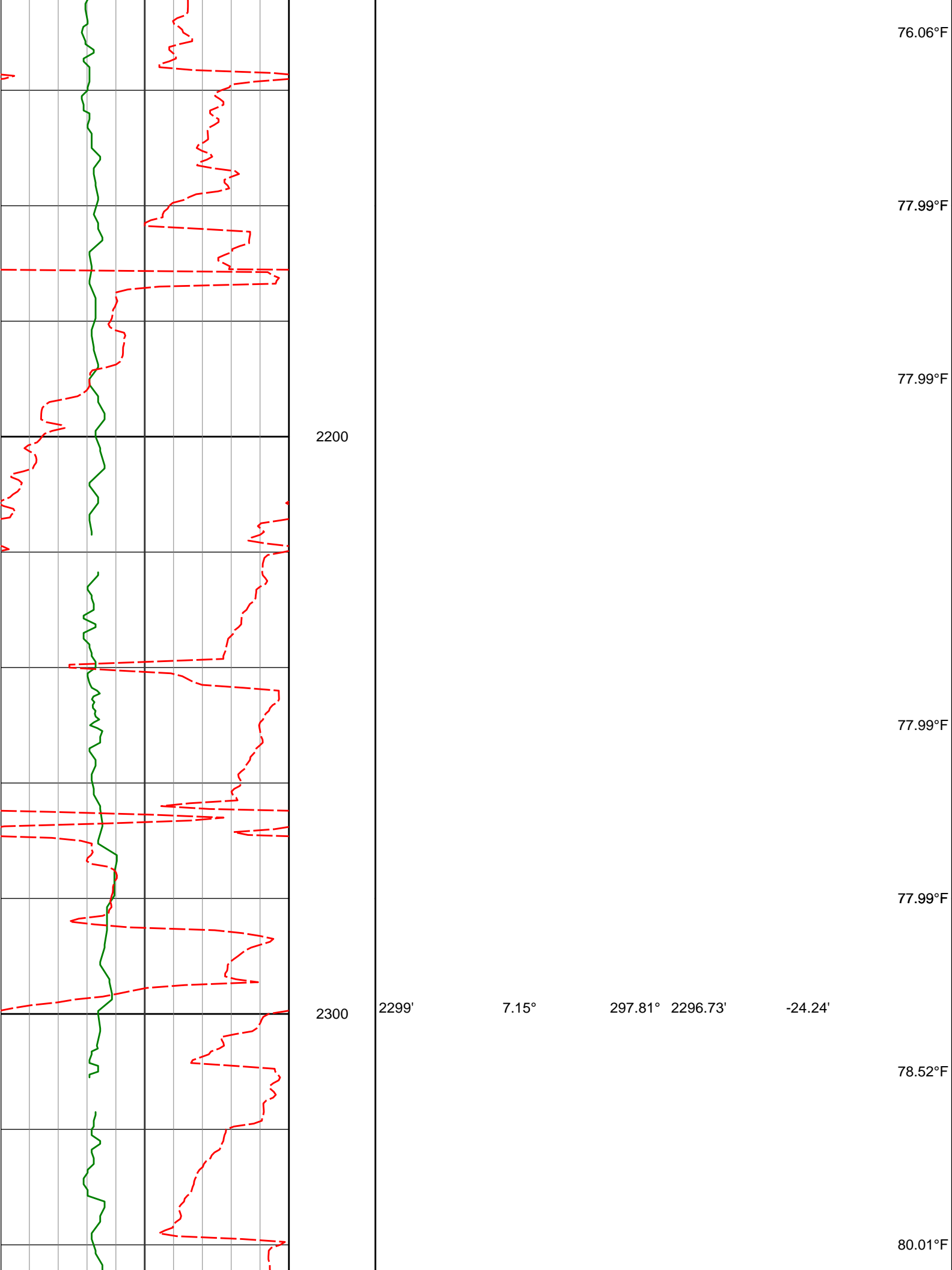
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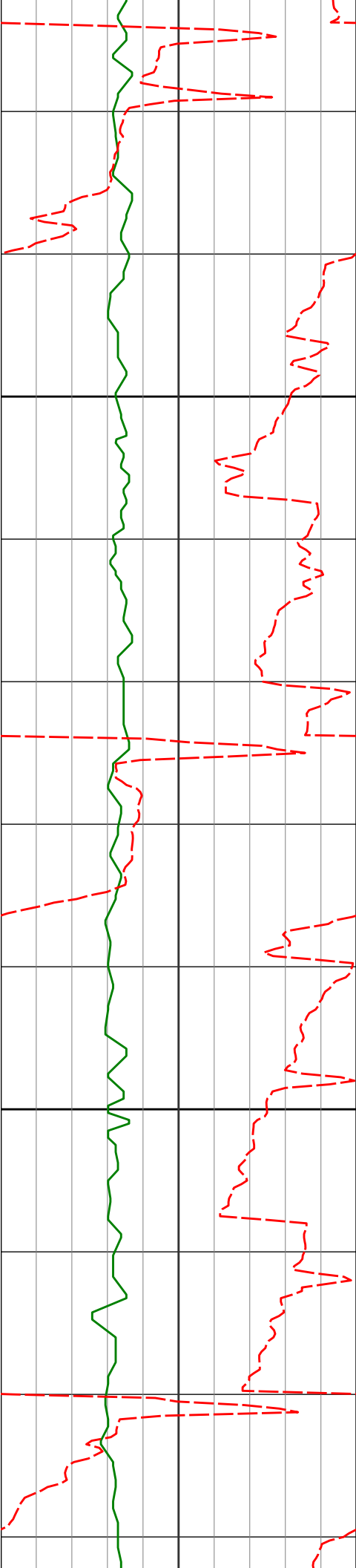
68.04°F

68.04°F









2400

2500

2482'

7.58°

294.22° 2478.22'

-33.96'

80.01°F

80.01°F

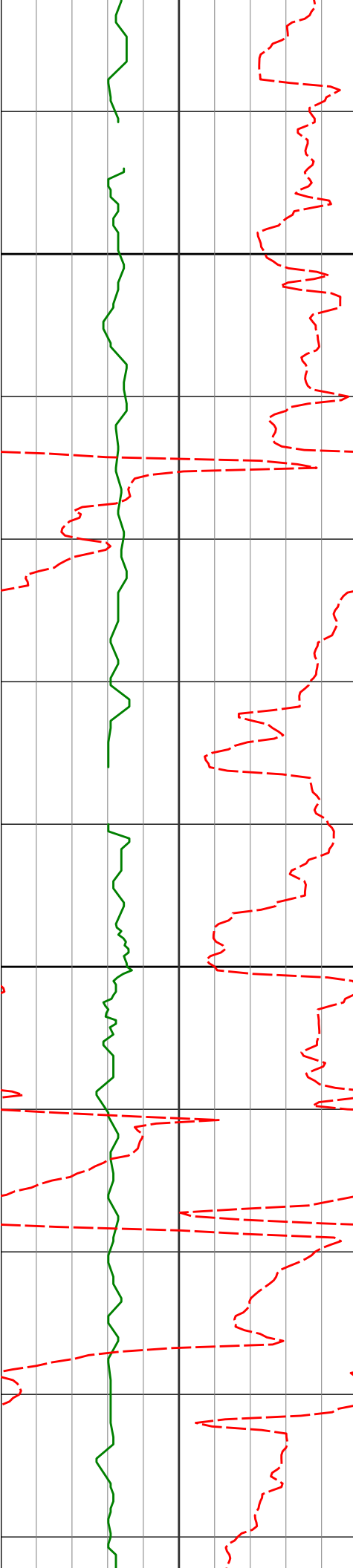
80.01°F

80.01°F

84.06°F

84.06°F

84.06°F



2600

2700

2574'

7.34°

291.14° 2569.44'

-38.28'

84.06°F

2665'

7.47°

287.64° 2659.68'

-41.88'

86.09°F

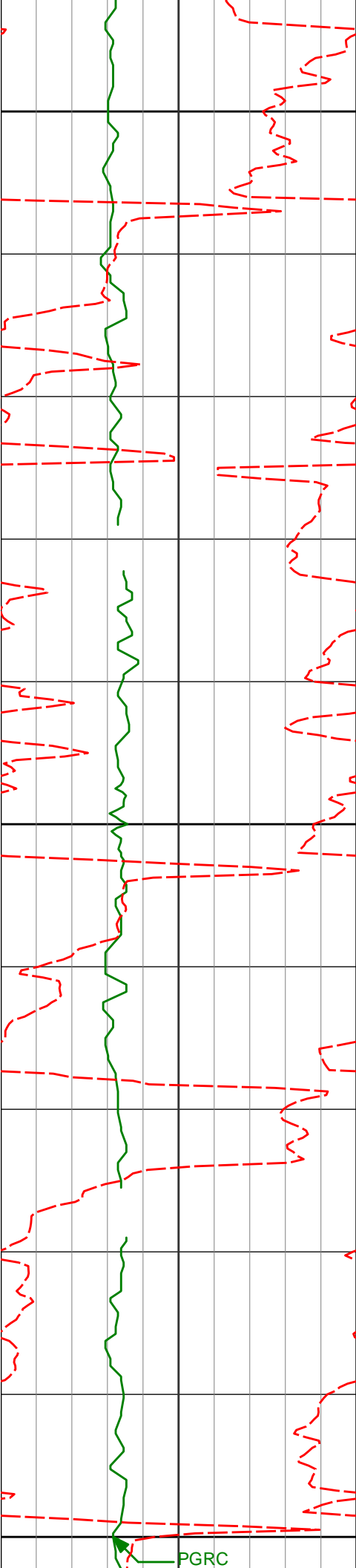
2757'

7.79°

300.59° 2750.88'

-46.58'

88.14°F



2800

2849'

2900

2940'

3000

7.35°

299.23°

2842.07'

-52.34'

6.84°

306.59°

2932.38'

-58.17'

PGRC

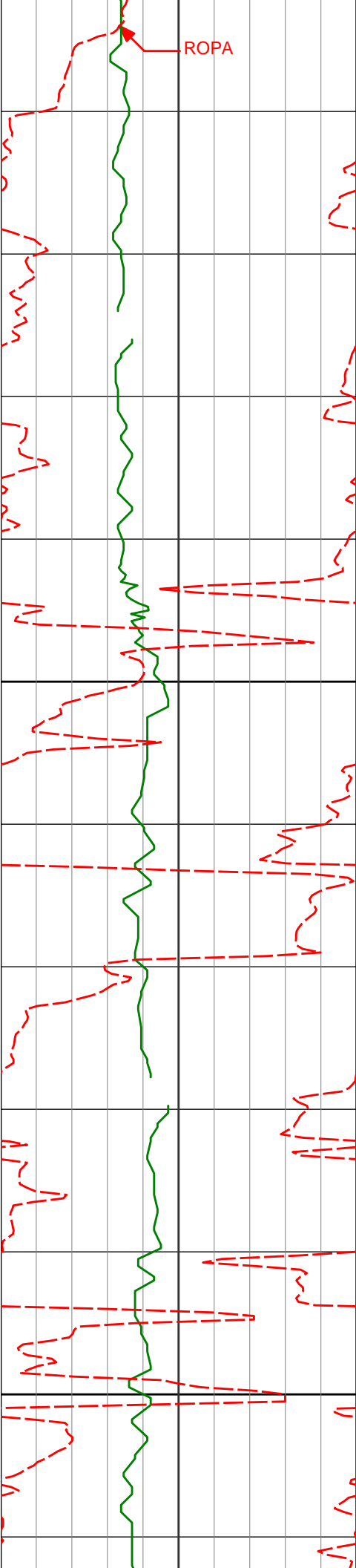
88.14°F

88.14°F

88.14°F

92.26°F

92.26°F



3100

3200

3035'

3129'

3222'

6.50°

6.43°

6.71°

310.74°

313.86°

314.91°

3026.74'

3120.14'

3212.53'

-64.82'

-71.74'

-78.98'

92.26°F

94.33°F

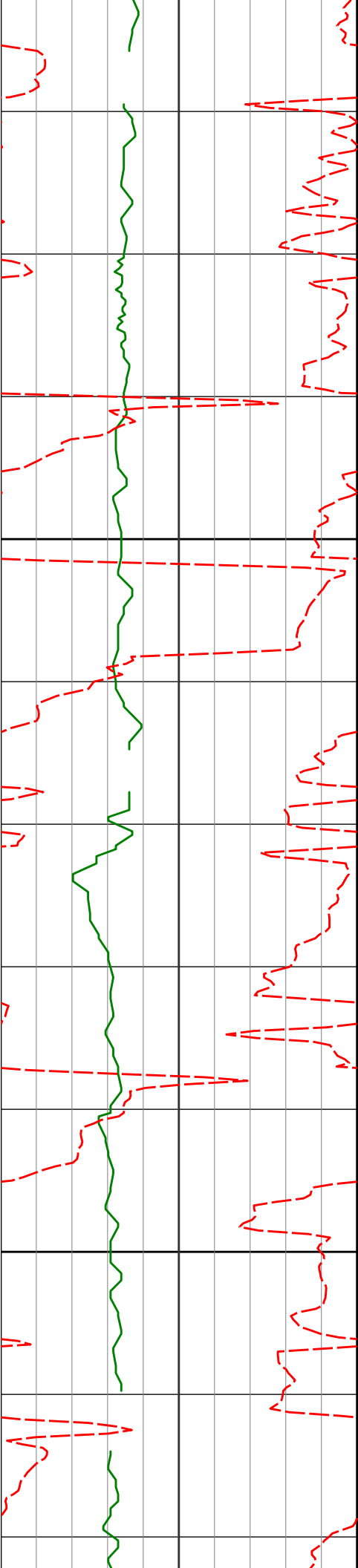
94.33°F

94.33°F

96.42°F

96.42°F

96.42°F



3300

3317'

7.89°

309.94° 3306.76'

-86.84'

96.42°F

96.42°F

96.98°F

98.51°F

98.51°F

3400

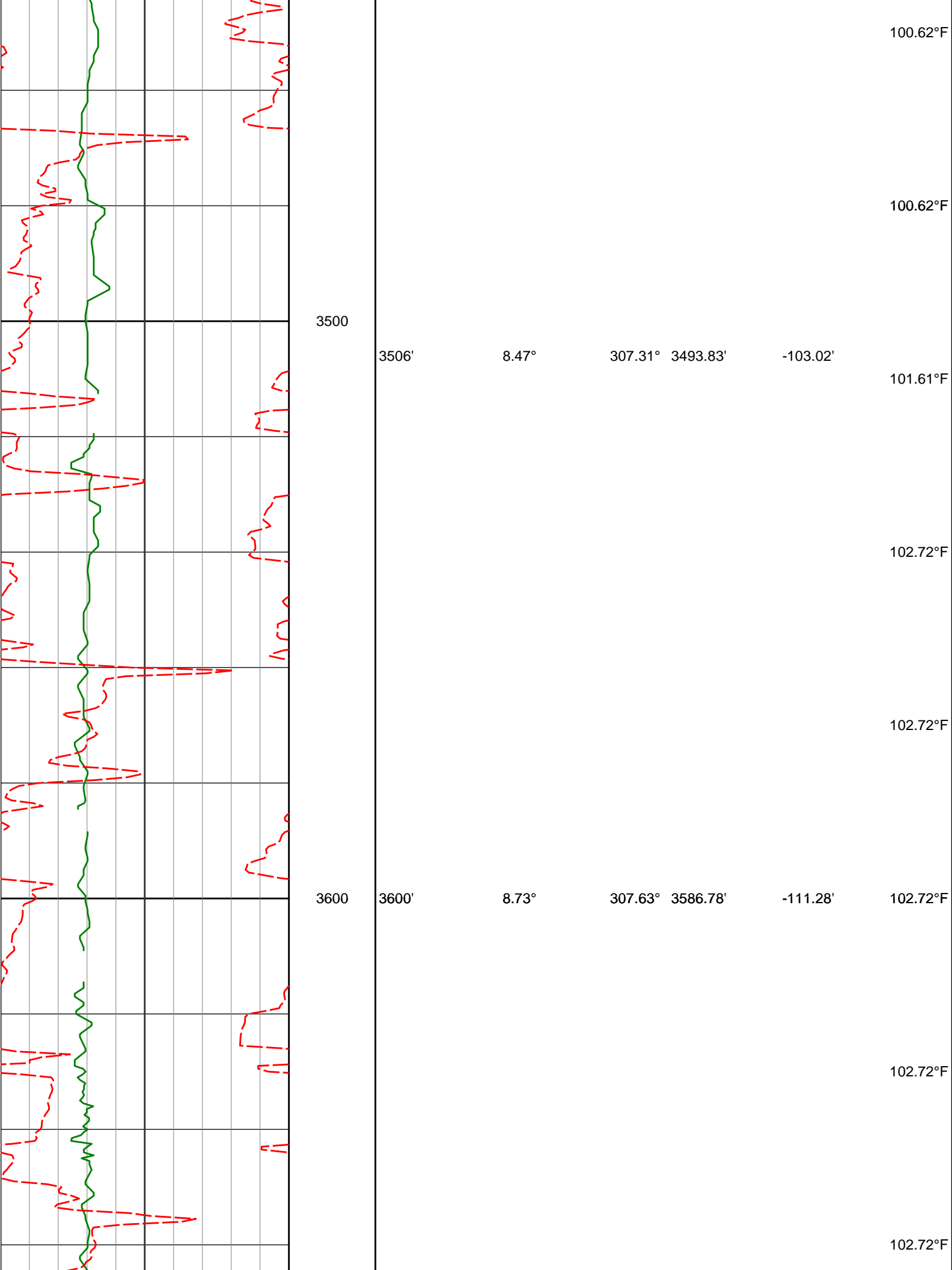
3411'

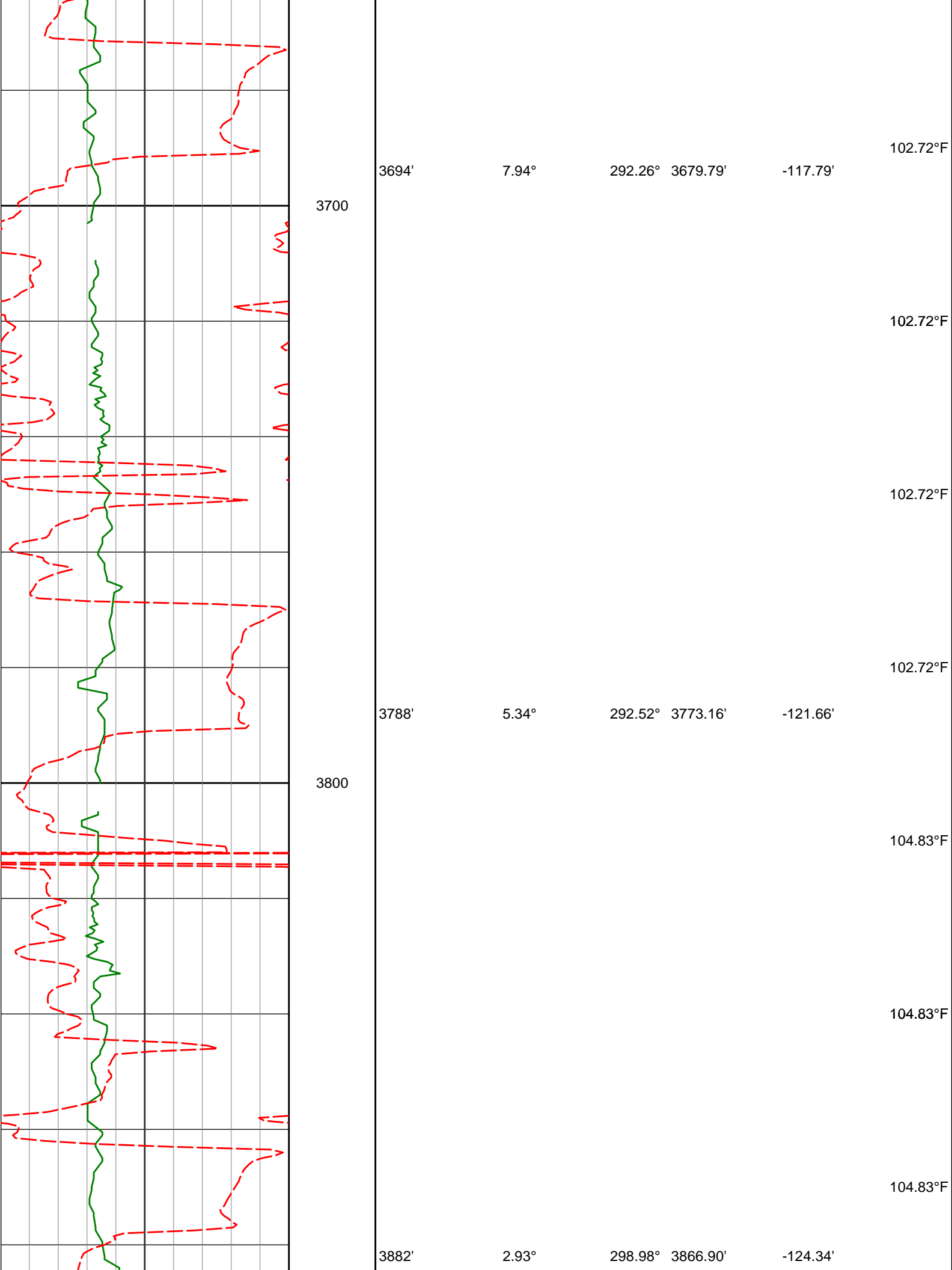
8.19°

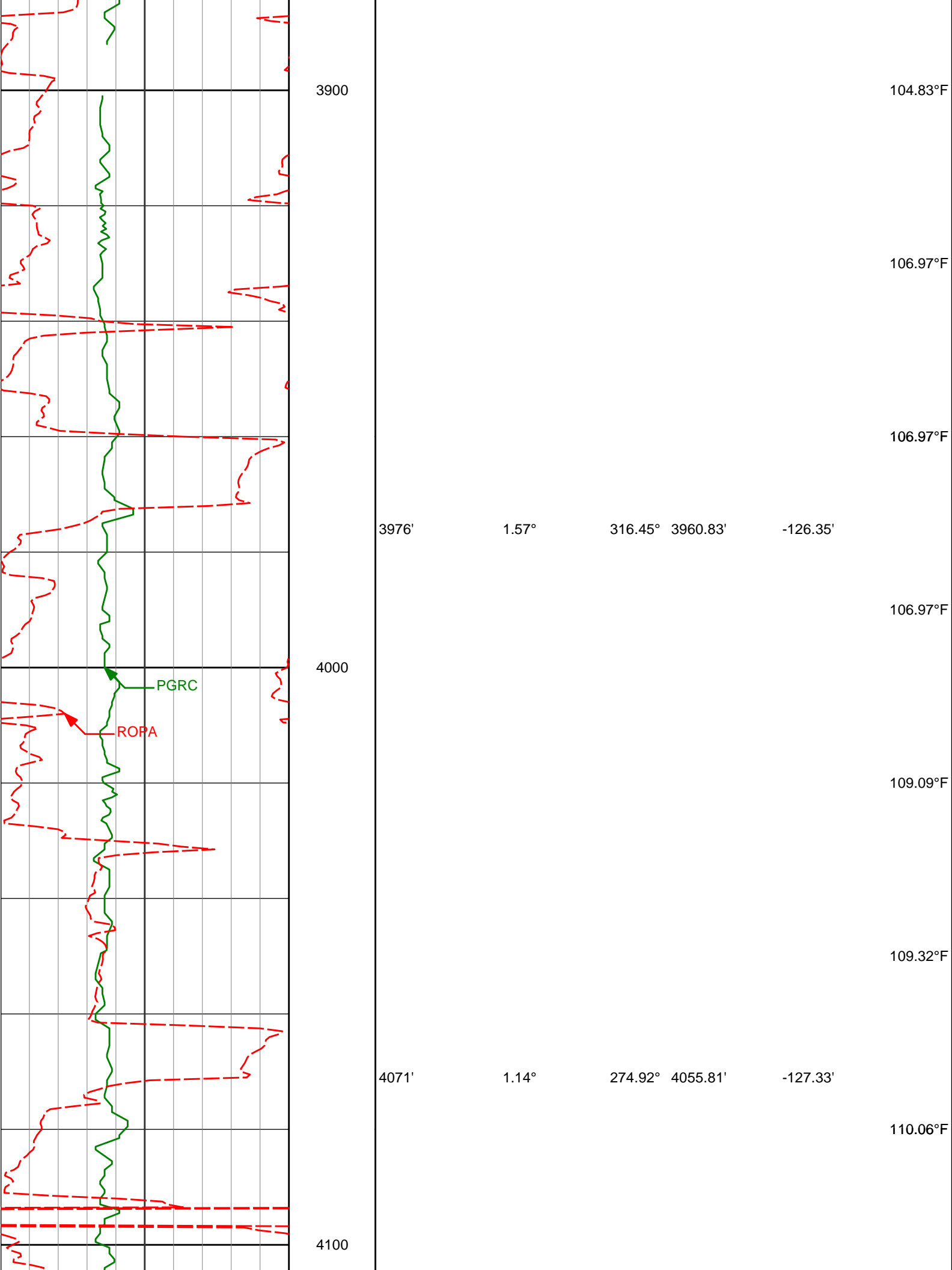
308.33° 3399.84'

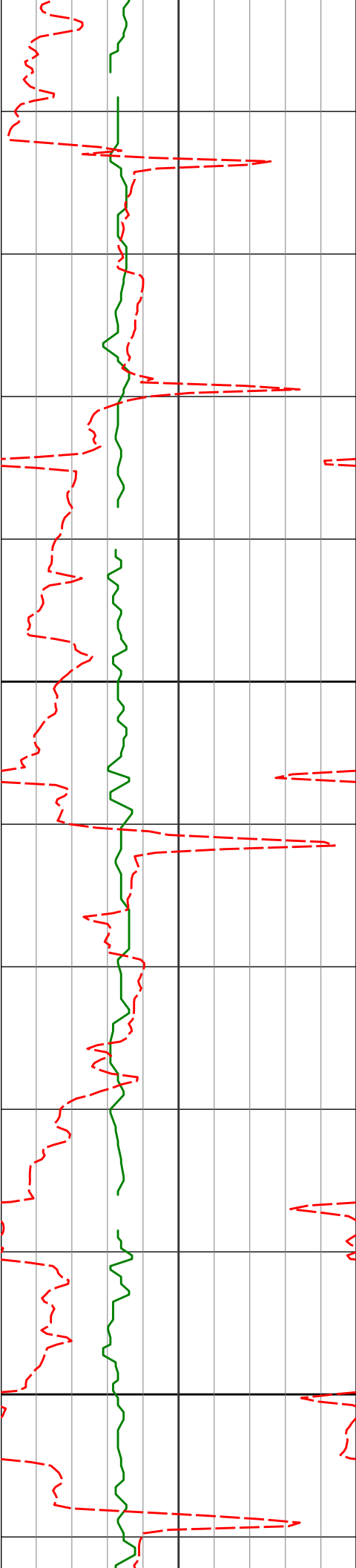
-94.87'

99.72°F









4200

4300

4165'

0.85°

271.12°

4149.79'

-127.38'

4259'

0.72°

253.92°

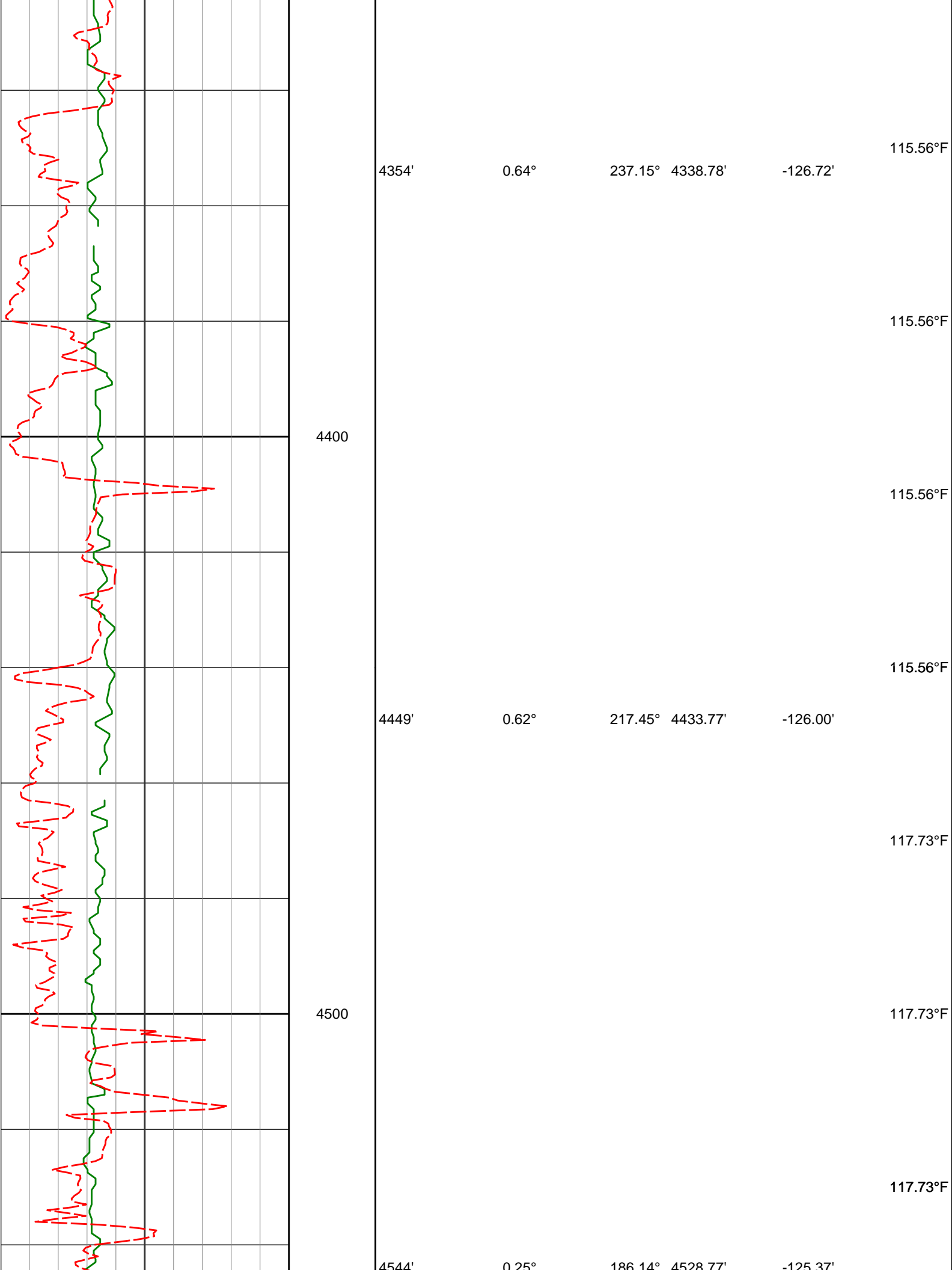
4243.78'

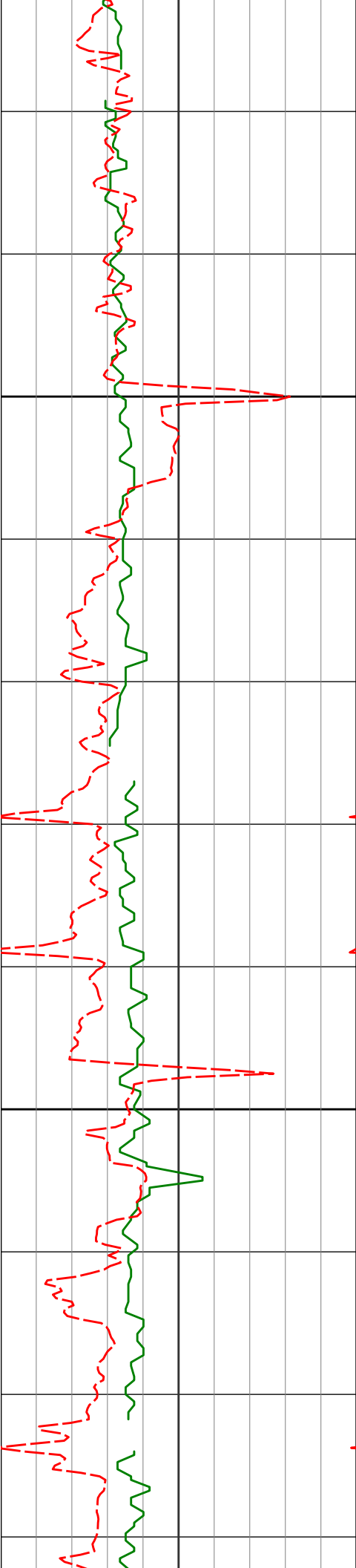
-127.20'

111.01°F

111.24°F

113.40°F





4600

4638'

0.85°

173.43°

4622.76'

-124.48'

4700

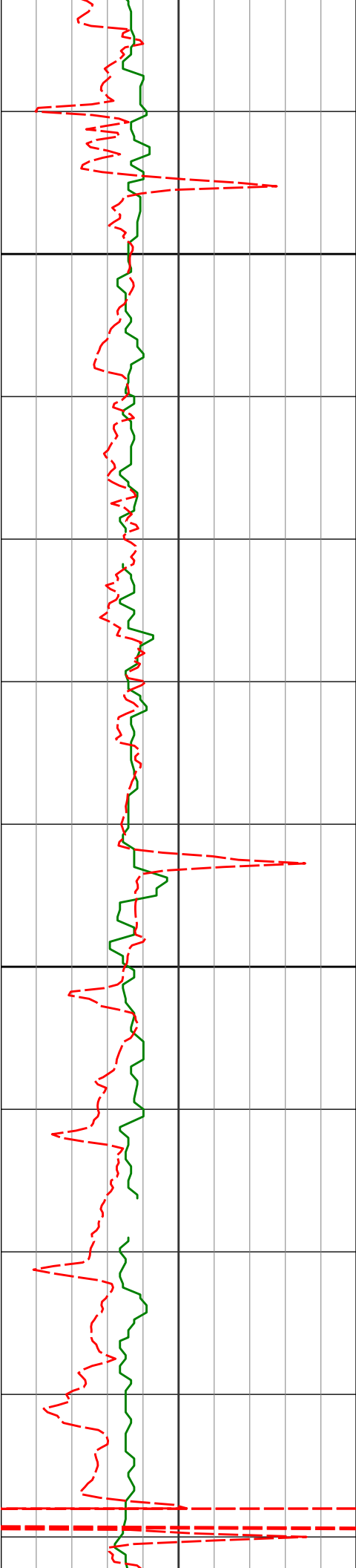
4733'

0.81°

160.95°

4717.75'

-123.15'



4800

123.18°F

4828'

1.02°

172.93°

4812.74'

-121.69'

124.30°F

124.30°F

124.30°F

4900

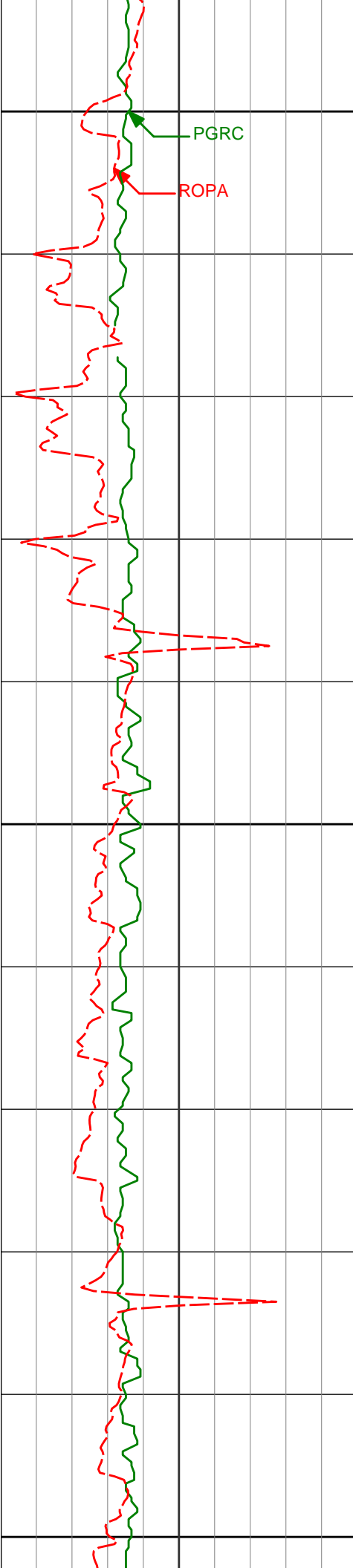
4923'

0.61°

178.80°

4907.73'

-120.36'



5000

PGRC

ROPA

5017'

0.69°

166.71° 5001.73'

-119.31'

5100

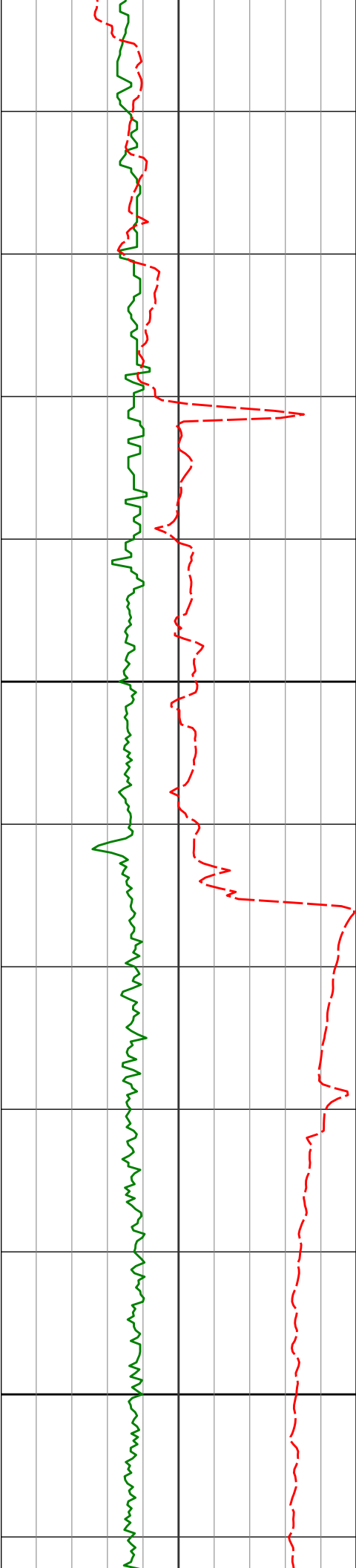
5111'

0.71°

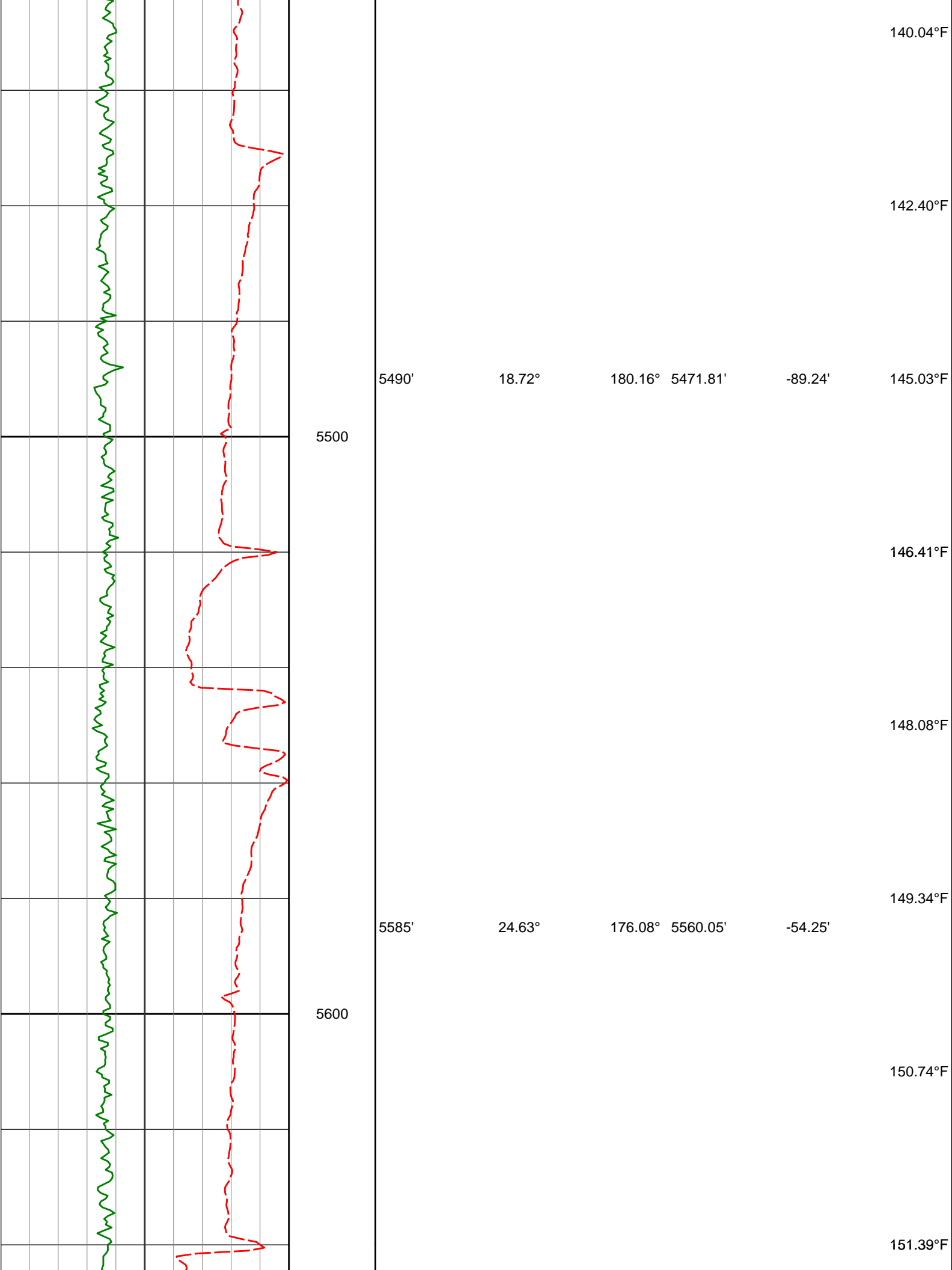
149.41° 5095.72'

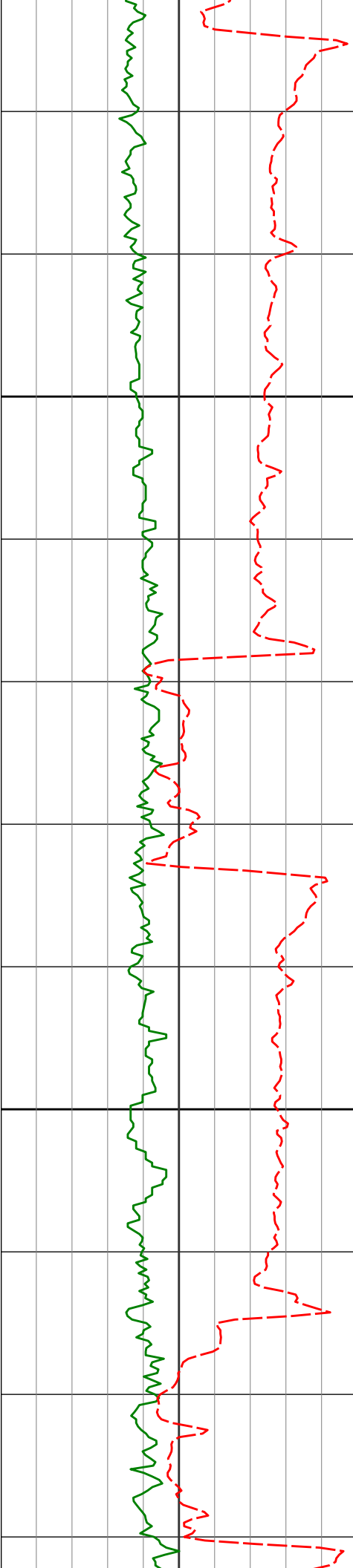
-118.27'

5200



5300	5206'	0.62°	146.44°	5190.71'	-117.36'	
						132.47°F
						131.42°F
5396'	5301'	0.42°	87.68°	5285.71'	-116.96'	
						131.25°F
						133.87°F
5400						135.36°F
5400	5396'	7.66°	182.74°	5380.43'	-110.65'	
						137.72°F





5700

5800

5679'

34.73°

177.25°

5641.62'

-7.93'

151.47°F

151.58°F

152.36°F

153.63°F

5774'

42.36°

177.27°

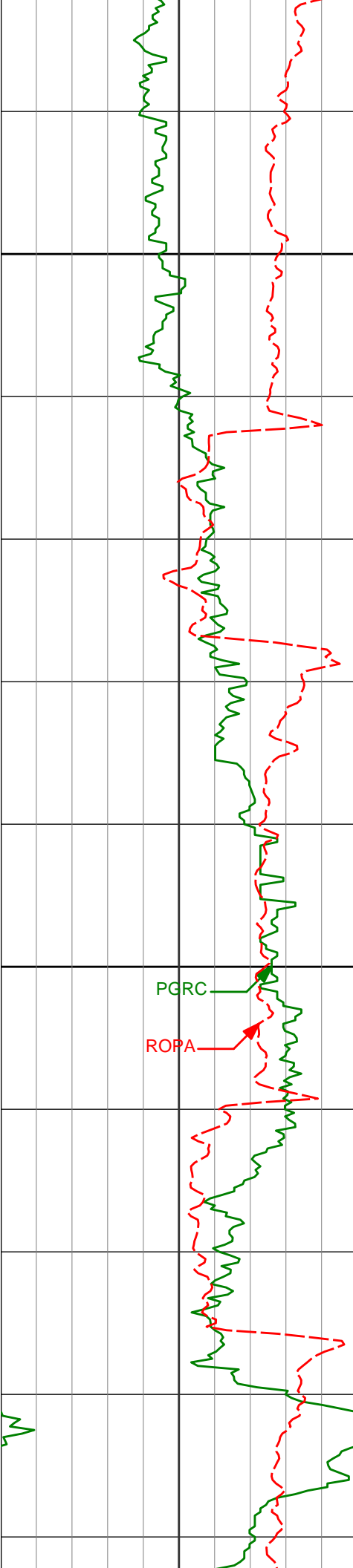
5715.86'

51.07'

153.79°F

153.79°F

153.79°F



5900

6000

5869'

50.08°

175.29° 5781.54'

119.31'

153.79°F

154.28°F

155.16°F

5963'

57.47°

178.07° 5837.06'

194.81'

155.39°F

155.91°F

156.13°F

6058'

67.16°

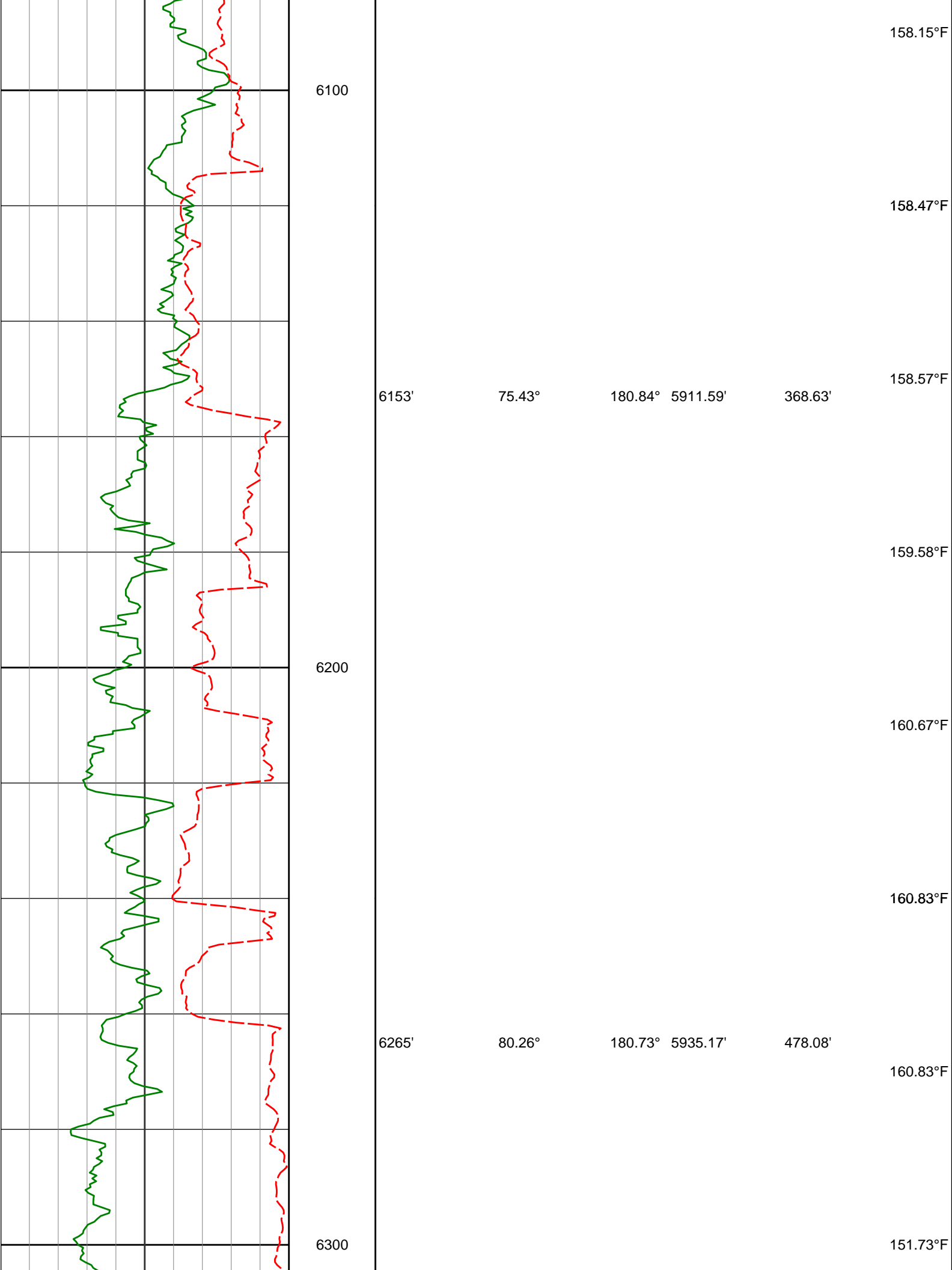
179.64° 5881.15'

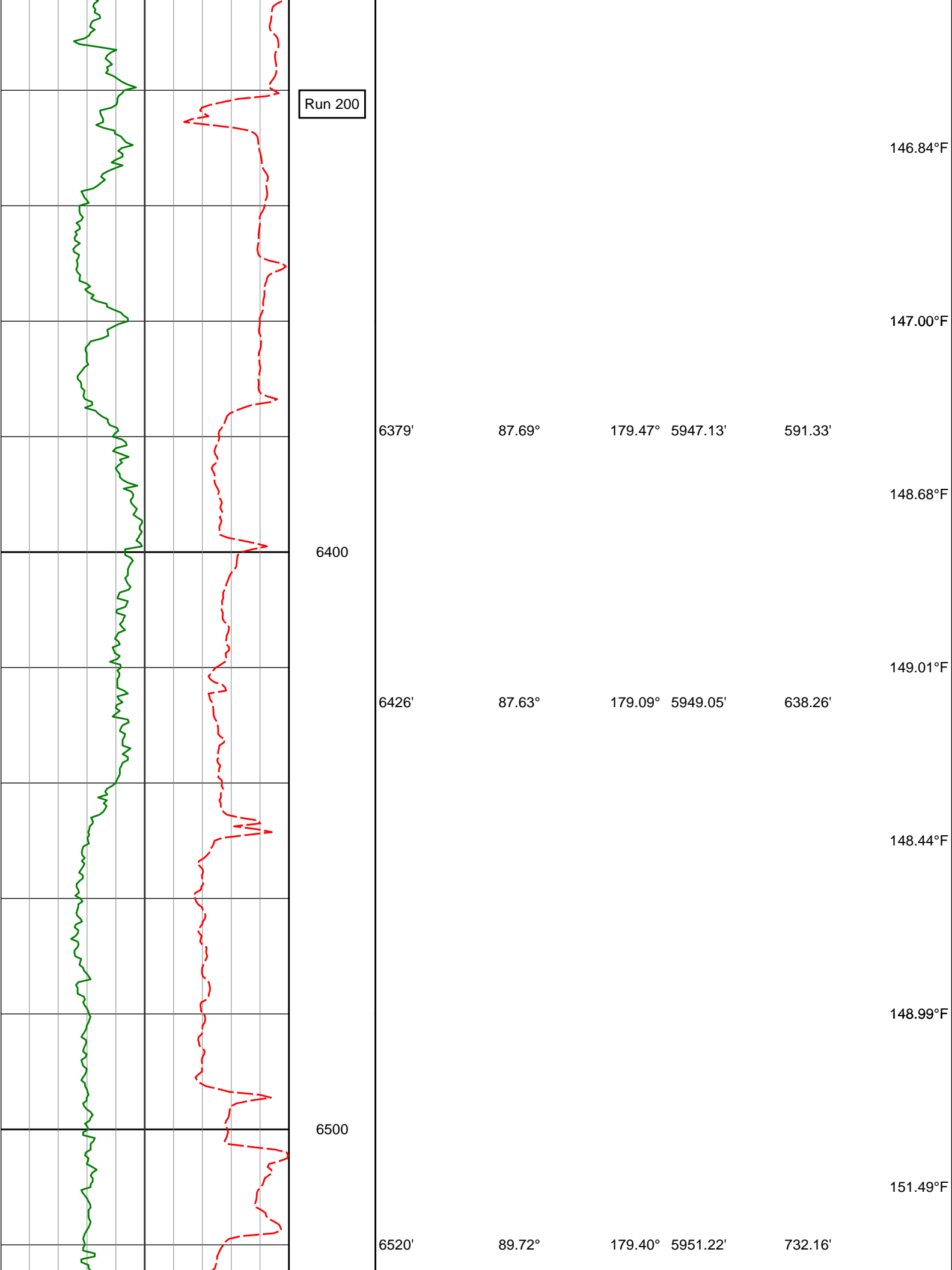
278.75'

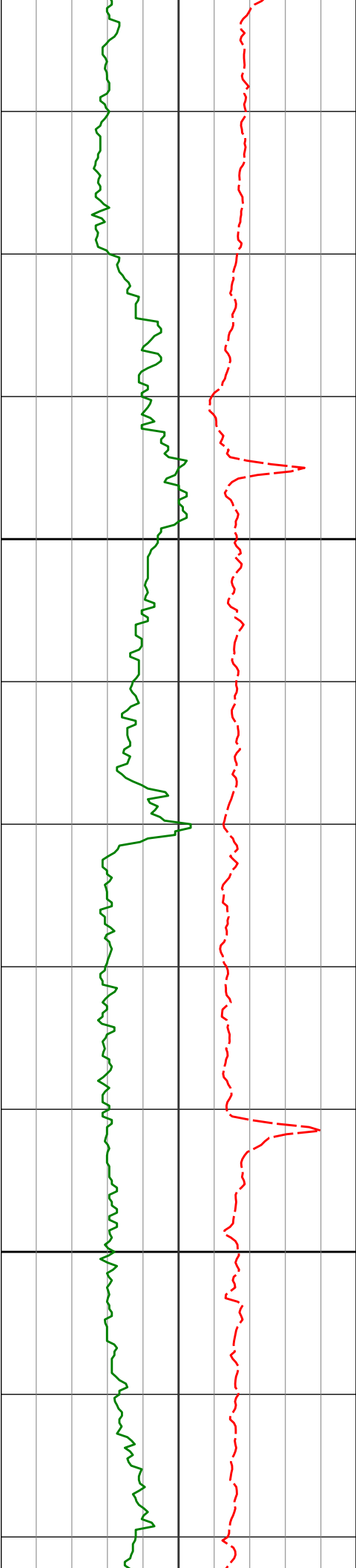
156.51°F

PGRC

ROPA







6600

6614'

89.88°

179.05°

5951.55'

826.08'

153.95°F

155.84°F

156.47°F

158.57°F

160.41°F

161.00°F

6700

6708'

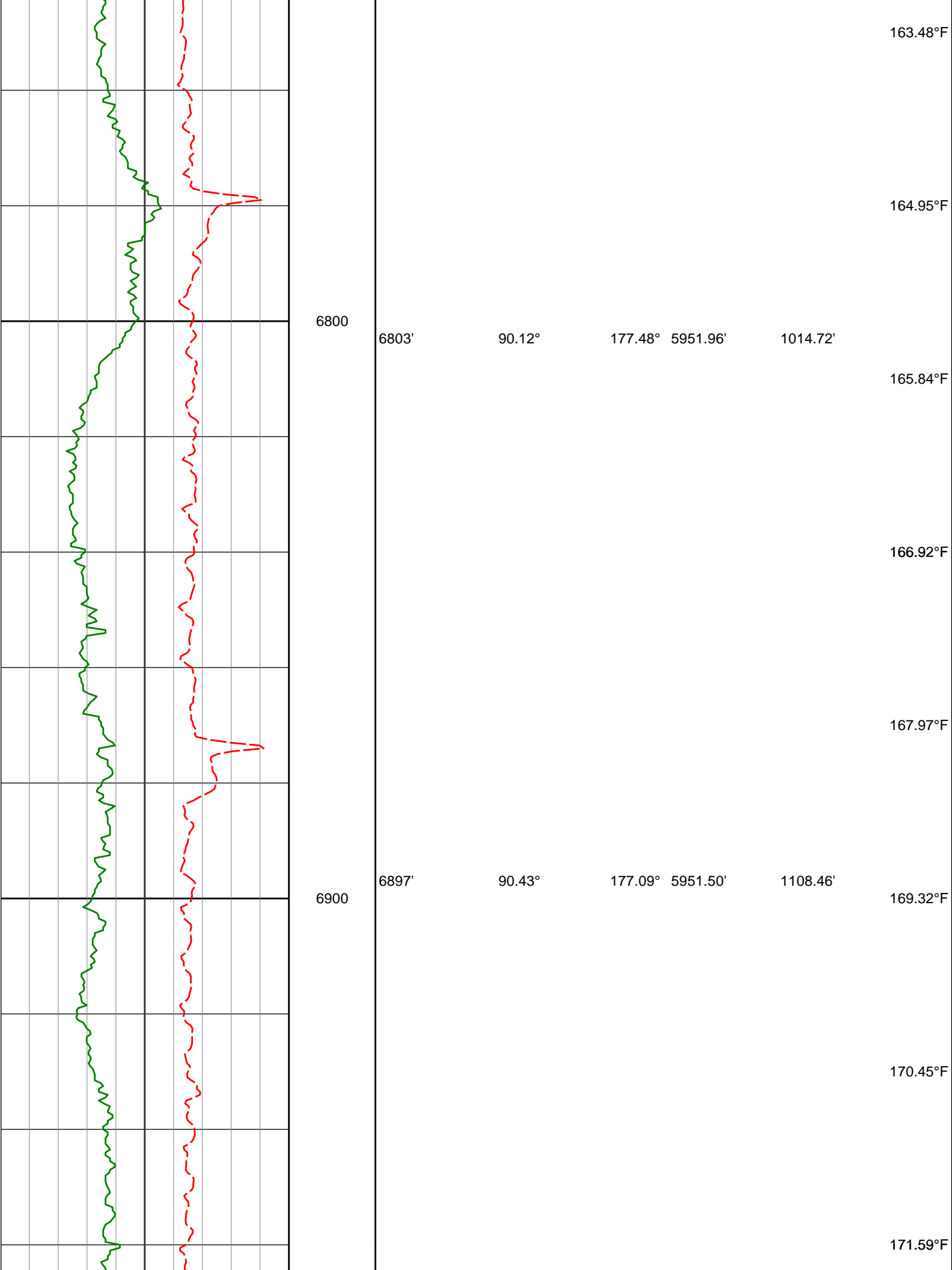
89.75°

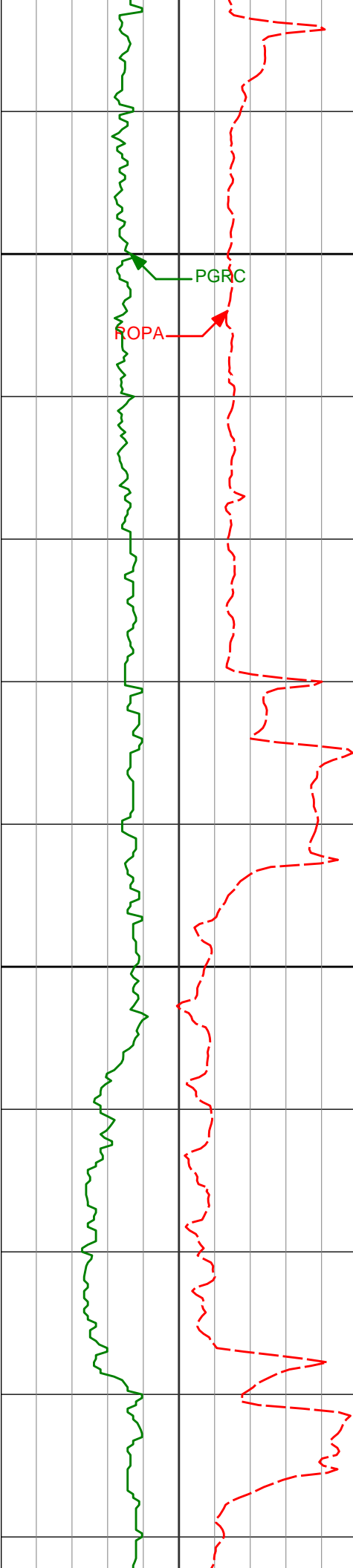
177.67°

5951.85'

919.94'

162.69°F





7000

7100

6991'	90.65°	176.79°	5950.62'	1202.16'	171.22°F
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7085'	90.71°	178.72°	5949.50'	1295.95'	172.39°F
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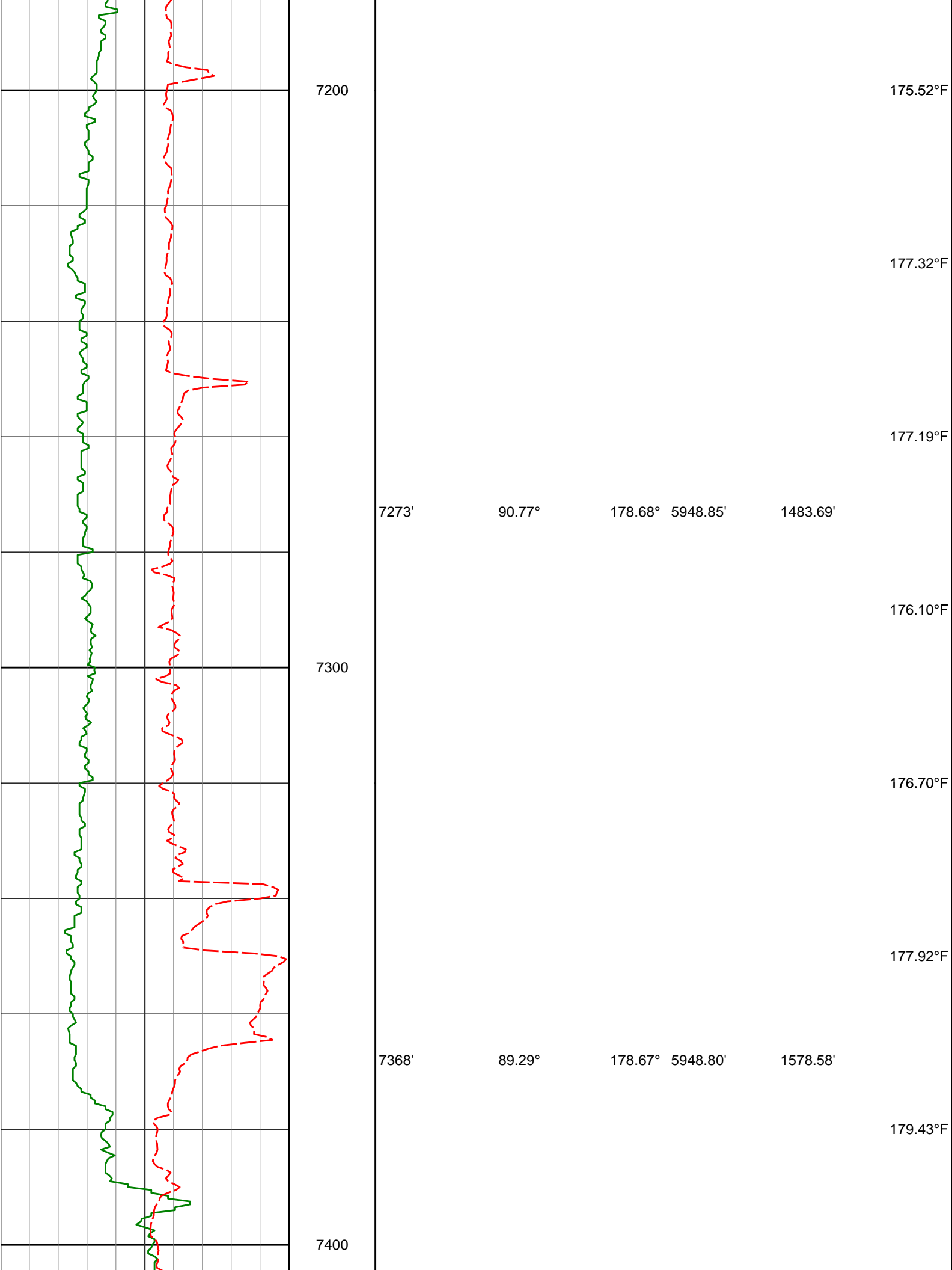
7179'	89.66°	178.35°	5949.20'	1389.82'	174.97°F
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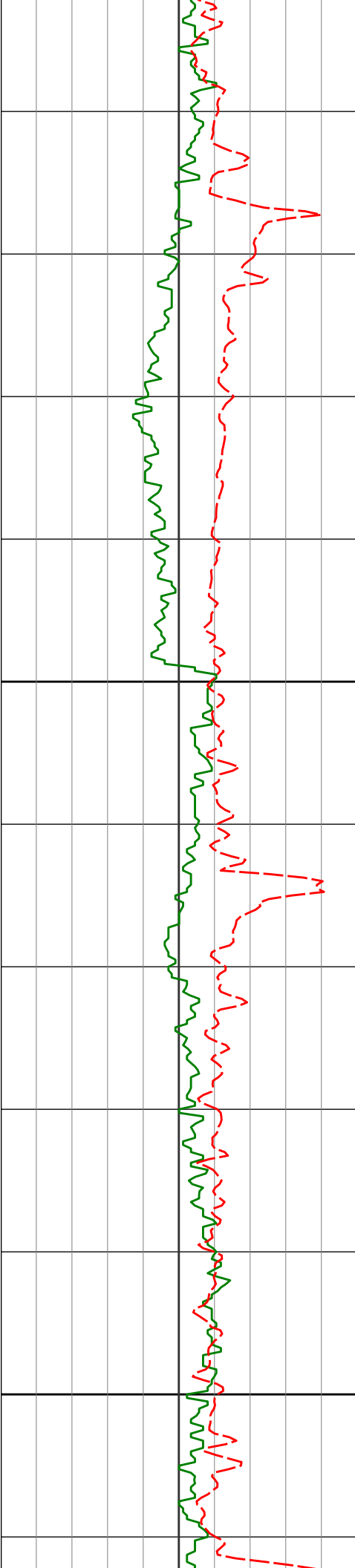
170.49°F

170.92°F

172.40°F

173.32°F





7500

7600

7462'

89.26°

177.94° 5949.98'

1672.42'

7556'

89.97°

178.20° 5950.62'

1766.25'

181.64°F

182.77°F

184.15°F

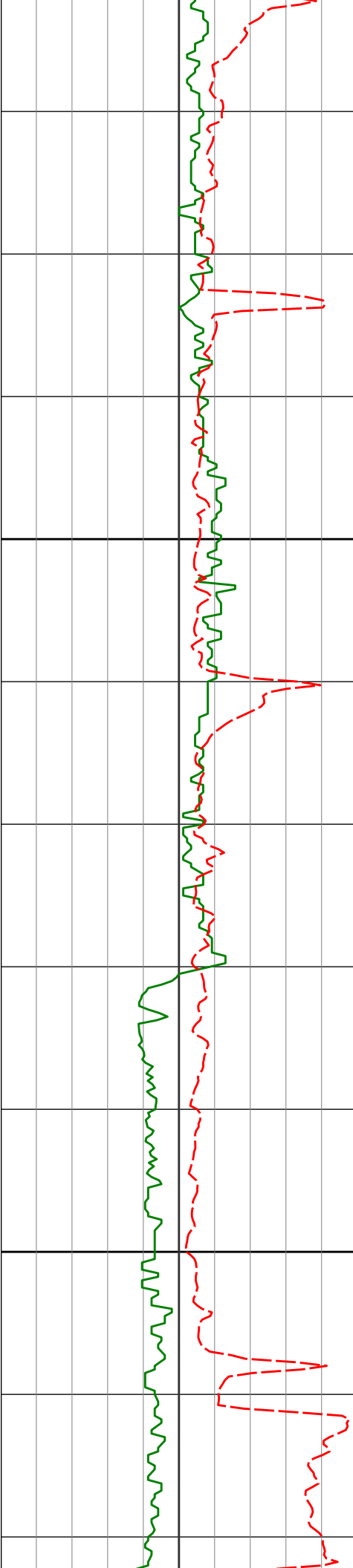
185.02°F

185.02°F

185.29°F

186.45°F

187.27°F



7700

7800

7651'

89.38°

177.12°

5951.15'

1861.04'

187.48°F

187.80°F

189.53°F

188.21°F

7745'

89.14°

176.40°

5952.37'

1954.71'

186.28°F

186.62°F

188.19°F

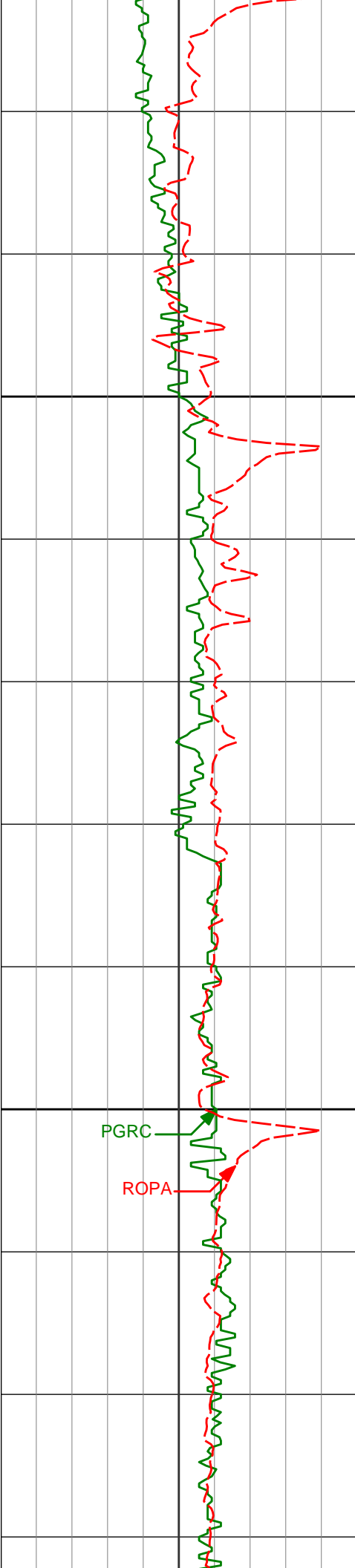
7840'

90.37°

179.14°

5952.77'

2049.50'



7900

8000

7935'

90.52°

178.54°

5952.03'

2144.39'

189.84°F

190.26°F

192.05°F

192.49°F

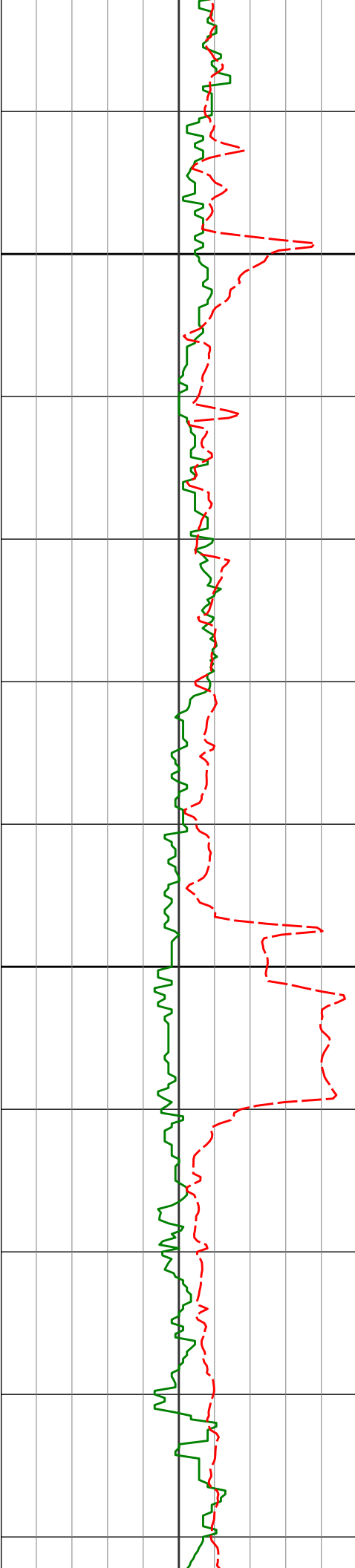
192.49°F

192.74°F

193.93°F

PGRC

ROPA



8100

8200

8124'

8219'

90.37°

91.08°

177.21°

179.21°

5950.56'

5949.36'

2333.00'

2427.84'

194.81°F

194.29°F

192.58°F

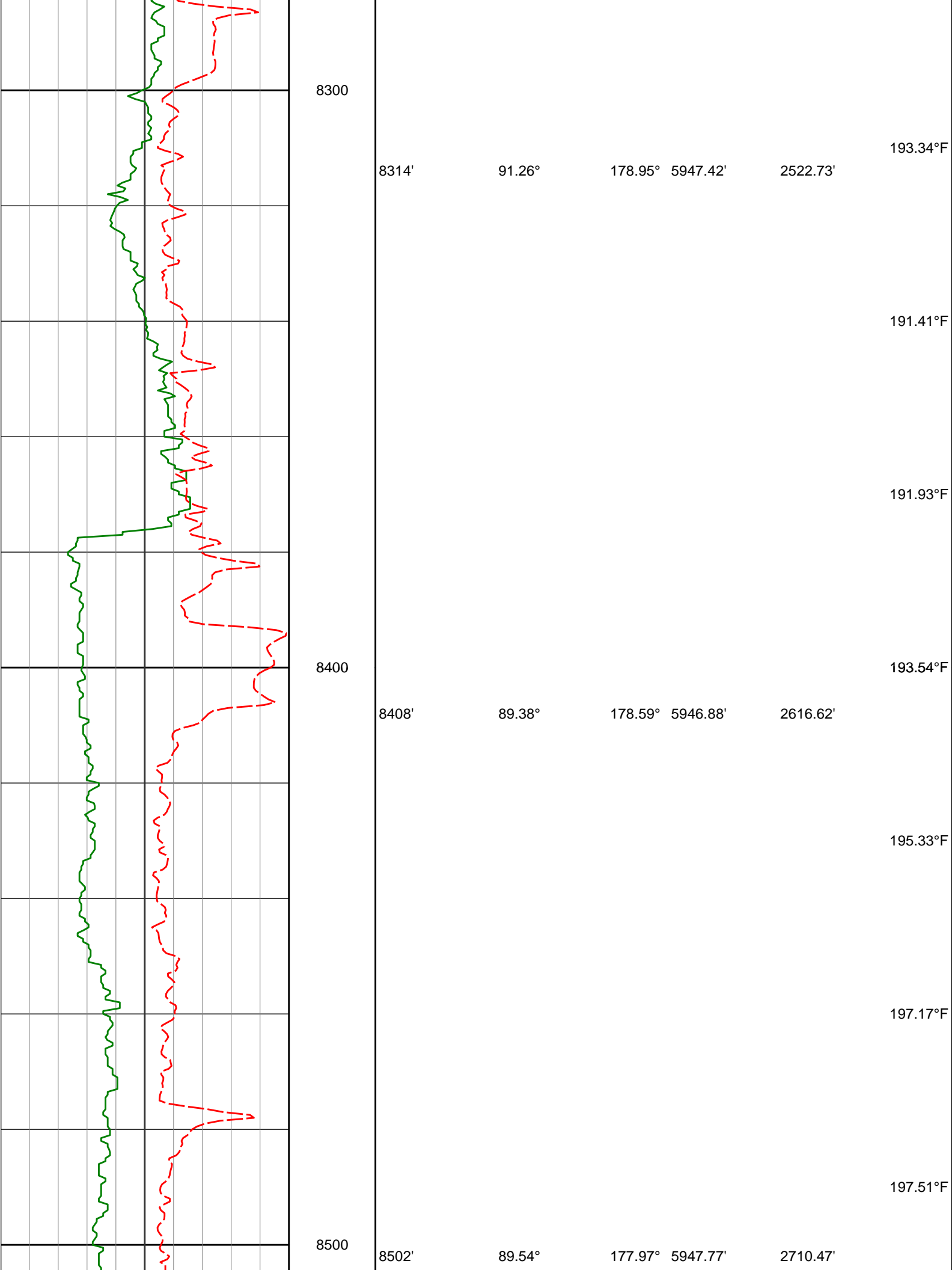
190.99°F

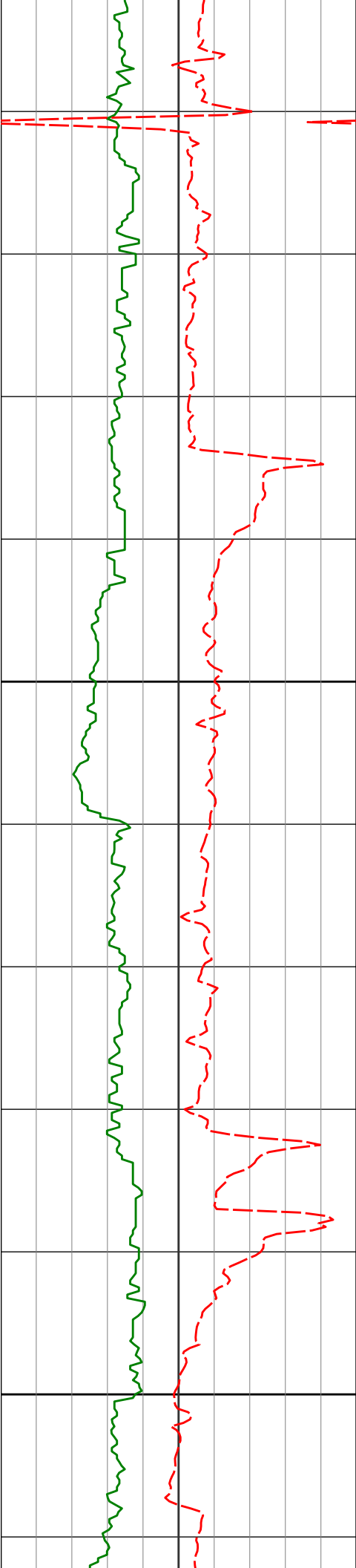
190.95°F

192.42°F

193.54°F

194.68°F





8600

8597'

89.72°

178.06°

5948.38'

2805.29'

197.51°F

197.74°F

199.22°F

198.95°F

198.16°F

199.02°F

8700

8692'

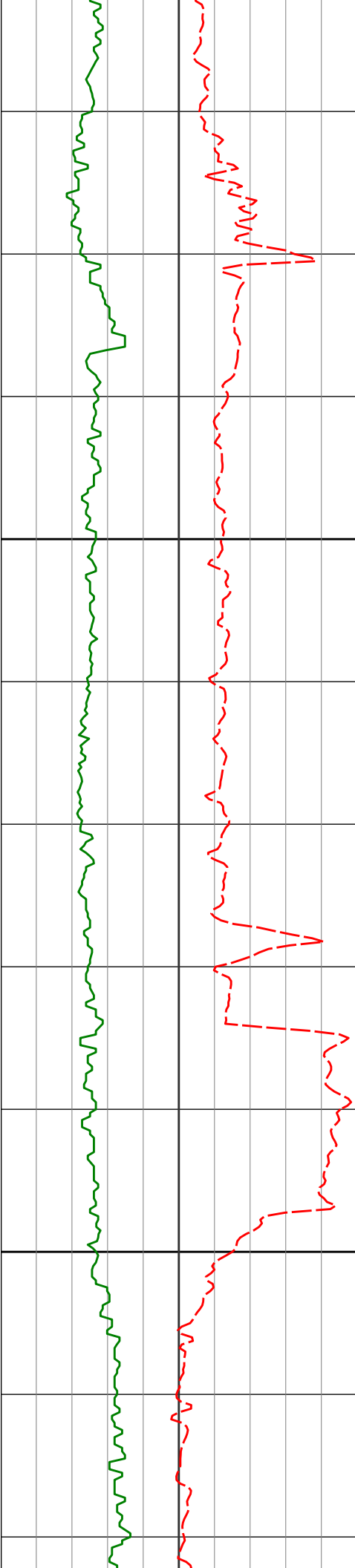
89.48°

177.39°

5949.05'

2900.08'

199.90°F



8800

8900

8787'

89.45°

176.14° 5949.94'

2994.75'

200.24°F

200.95°F

199.50°F

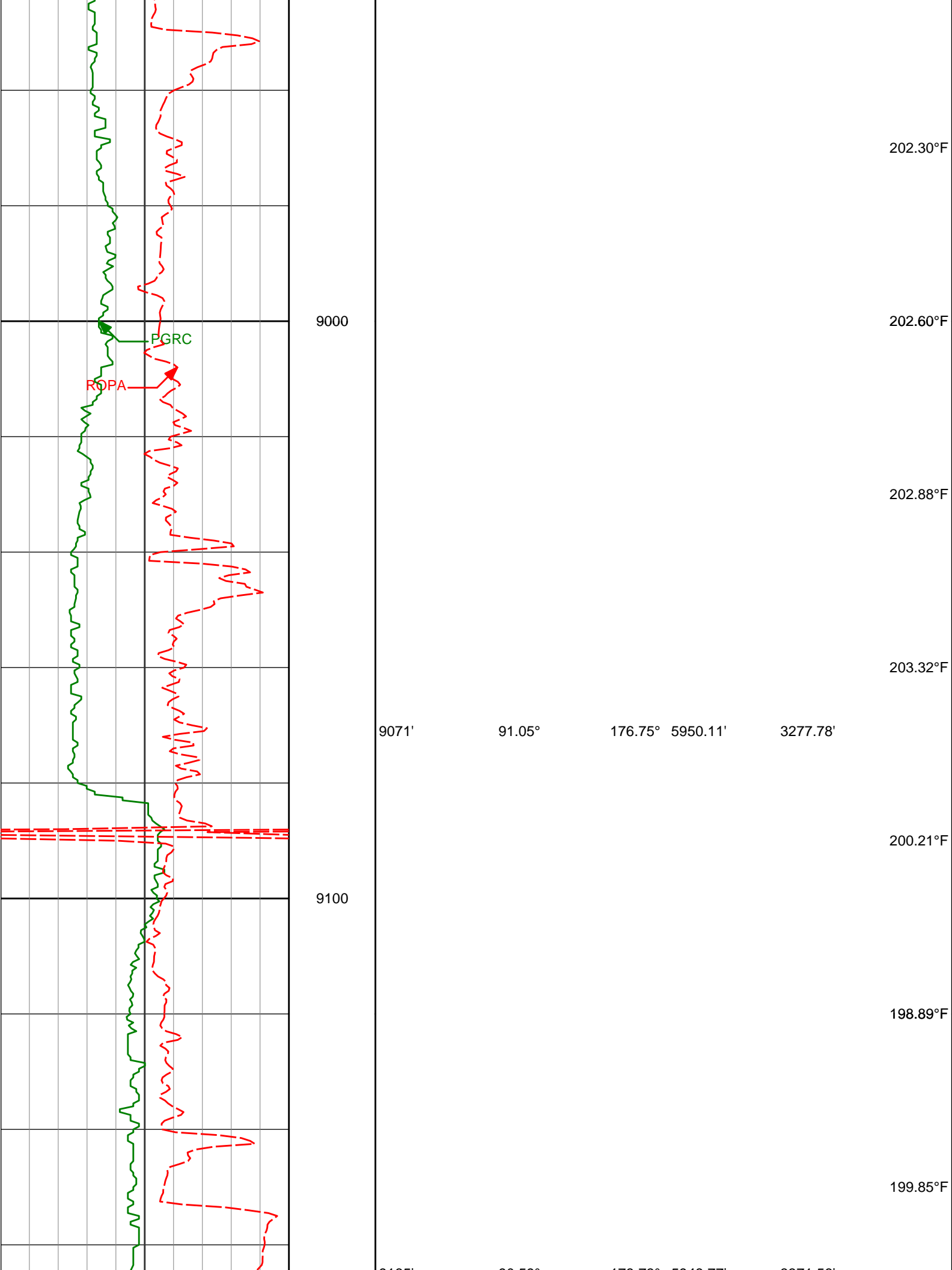
198.13°F

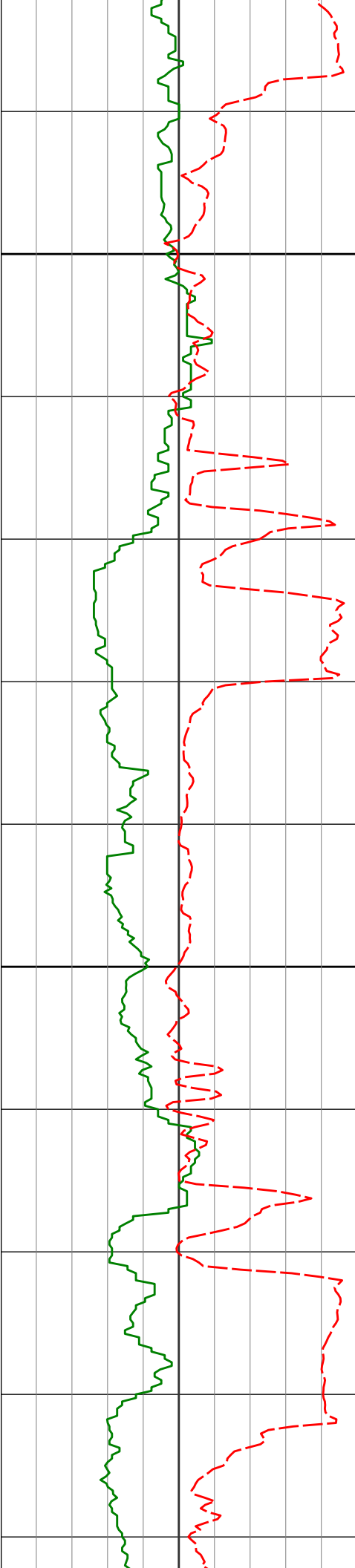
197.67°F

198.33°F

199.82°F

200.47°F

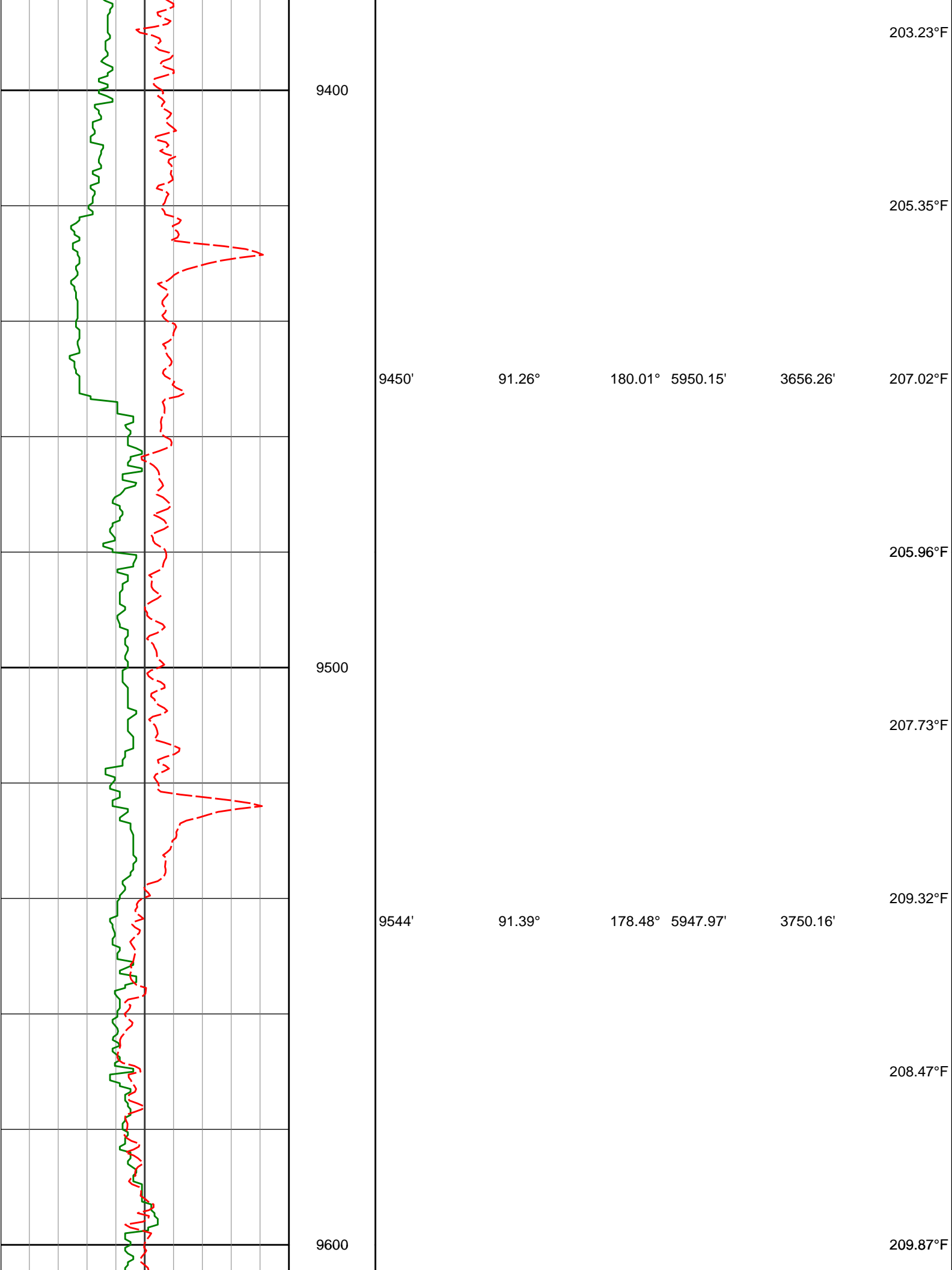


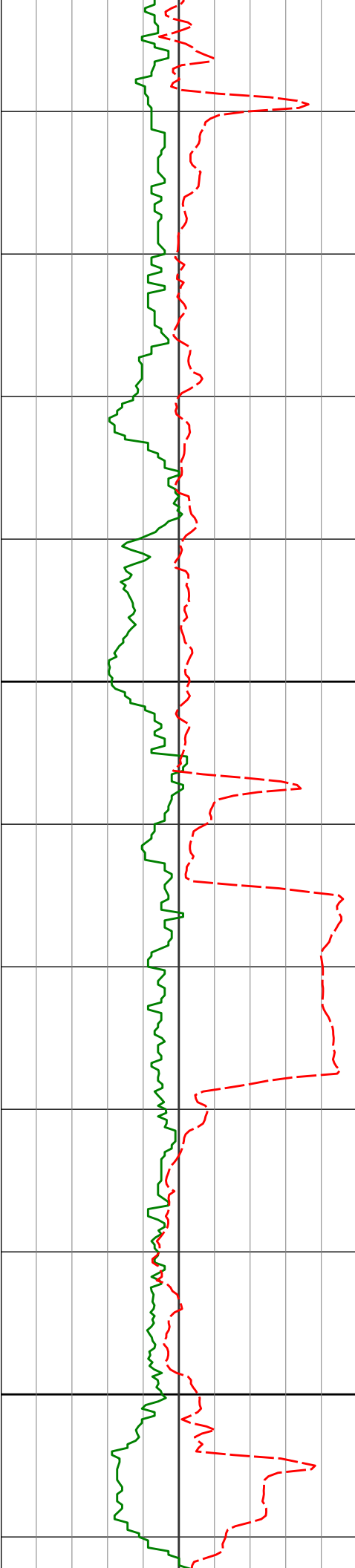


9200

9300

9165'	90.59°	178.73°	5948.77'	3371.56'
				200.05°F
				200.05°F
				200.37°F
9260'	88.46°	178.30°	5949.56'	3466.43'
				200.96°F
				200.35°F
				200.58°F
9355'	89.78°	179.38°	5951.02'	3561.31'
				202.37°F





9700

9800

9639'

9734'

92.59°

91.42°

178.56°

179.06°

5944.68'

5941.36'

3844.97'

3939.81'

209.05°F

207.23°F

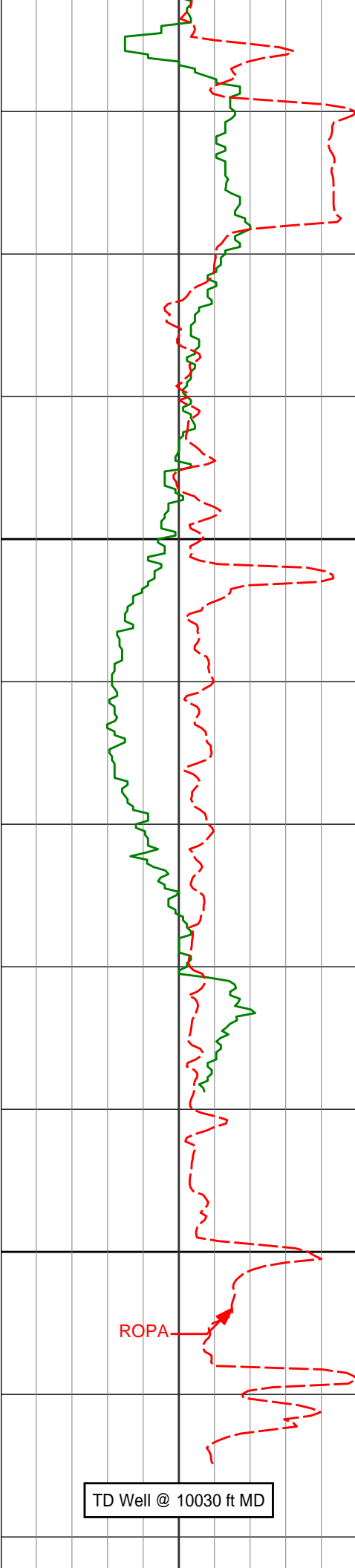
205.71°F

205.52°F

206.83°F

206.28°F

205.90°F



9828'

90.83°

180.26° 5939.51'

4033.74'

207.32°F

208.49°F

9900

210.10°F

210.31°F

9963'

91.11°

180.93° 5937.22'

4168.70'

210.31°F

10000

ROPA

10030'

91.11°

180.93° 5935.93'

4235.69'

TD Well @ 10030 ft MD

[illegible]

HALLIBURTON

DIRECTIONAL SURVEY REPORT

**Noble Energy
Faith LC34-775
Wattenberg
Weld Colorado
USA
CA-XX-0902972918**

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
250.00	0.14	271.87	250.00	0.01 N	0.31 W	-0.00	0.06
500.00	0.29	271.87	500.00	0.04 N	1.24 W	-0.01	0.06
619.00	0.36	271.87	619.00	0.06 N	1.92 W	-0.01	0.06
725.00	0.42	271.87	724.99	0.09 N	2.64 W	-0.02	0.06
819.00	0.37	287.58	818.99	0.19 N	3.27 W	-0.10	0.13
914.00	0.39	307.86	913.99	0.48 N	3.82 W	-0.38	0.14
1103.00	0.46	282.05	1102.98	1.04 N	5.08 W	-0.91	0.11
1198.00	0.54	297.36	1197.98	1.33 N	5.85 W	-1.17	0.16
1292.00	0.39	287.41	1291.98	1.63 N	6.55 W	-1.45	0.18
1384.00	0.47	293.90	1383.97	1.87 N	7.20 W	-1.68	0.10
1476.00	0.43	293.28	1475.97	2.16 N	7.86 W	-1.96	0.05
1567.00	0.28	296.87	1566.97	2.40 N	8.37 W	-2.18	0.17
1750.00	0.22	278.01	1749.97	2.65 N	9.11 W	-2.41	0.06
1842.00	2.30	309.19	1841.94	3.84 N	10.72 W	-3.56	2.30
1933.00	4.50	307.92	1932.78	7.19 N	14.95 W	-6.80	2.42
2116.00	6.21	295.72	2114.98	15.90 N	29.54 W	-15.13	1.12
2299.00	7.15	297.81	2296.73	25.51 N	48.54 W	-24.24	0.53
2482.00	7.58	294.22	2478.22	35.78 N	69.62 W	-33.96	0.34
2574.00	7.34	291.14	2569.44	40.39 N	80.64 W	-38.28	0.50
2665.00	7.47	287.64	2659.68	44.28 N	91.70 W	-41.88	0.51
2757.00	7.79	300.59	2750.88	49.26 N	102.77 W	-46.58	1.90
2849.00	7.35	299.23	2842.07	55.31 N	113.27 W	-52.34	0.52
2940.00	6.84	306.59	2932.38	61.38 N	122.70 W	-58.17	1.14
3035.00	6.50	310.74	3026.74	68.26 N	131.31 W	-64.82	0.62
3129.00	6.43	313.86	3120.14	75.38 N	139.14 W	-71.74	0.38
3222.00	6.71	314.91	3212.53	82.82 N	146.74 W	-78.98	0.32
3317.00	7.89	309.94	3306.76	90.92 N	155.66 W	-86.84	1.41
3411.00	8.19	308.33	3399.84	99.21 N	165.86 W	-94.87	0.40
3506.00	8.47	307.31	3493.83	107.65 N	176.73 W	-103.02	0.33
3600.00	8.73	307.63	3586.78	116.20 N	187.89 W	-111.28	0.28
3694.00	7.94	292.26	3679.79	123.02 N	199.55 W	-117.79	2.50
3788.00	5.34	292.52	3773.16	127.15 N	209.60 W	-121.66	2.76
3882.00	2.93	298.98	3866.90	129.99 N	215.74 W	-124.34	2.61
3976.00	1.57	316.45	3960.83	132.09 N	218.73 W	-126.35	1.61
4071.00	1.14	274.92	4055.81	133.11 N	220.56 W	-127.33	1.09
4165.00	0.85	271.12	4149.79	133.20 N	222.19 W	-127.38	0.32
4259.00	0.72	253.92	4243.78	133.05 N	223.45 W	-127.20	0.28
4354.00	0.64	237.15	4338.78	132.60 N	224.47 W	-126.72	0.22
4449.00	0.62	217.45	4433.77	131.90 N	225.23 W	-126.00	0.23
4544.00	0.25	186.14	4528.77	131.28 N	225.56 W	-125.37	0.45
4638.00	0.85	173.43	4622.76	130.38 N	225.50 W	-124.48	0.64
4733.00	0.81	160.95	4717.75	129.05 N	225.20 W	-123.15	0.19
4828.00	1.02	172.93	4812.74	127.58 N	224.88 W	-121.69	0.30
4923.00	0.61	178.80	4907.73	126.24 N	224.77 W	-120.36	0.44

5017.00	0.69	166.71	5001.73	125.20 N	224.63 W	-119.31	0.17
5111.00	0.71	149.41	5095.72	124.15 N	224.20 W	-118.27	0.22
5206.00	0.62	146.44	5190.71	123.21 N	223.62 W	-117.36	0.10
5301.00	0.42	87.68	5285.71	122.80 N	222.99 W	-116.96	0.56
5396.00	7.66	182.74	5380.43	116.48 N	222.94 W	-110.65	8.11
5490.00	18.72	180.16	5471.81	95.07 N	223.29 W	-89.24	11.78
5585.00	24.63	176.08	5560.05	60.04 N	221.98 W	-54.25	6.42
5679.00	34.73	177.25	5641.62	13.64 N	219.35 W	-7.93	10.76
5774.00	42.36	177.27	5715.86	45.45 S	216.52 W	51.07	8.04
5869.00	50.08	175.29	5781.54	113.83 S	212.00 W	119.31	8.25
5963.00	57.47	178.07	5837.06	189.48 S	207.70 W	194.81	8.22
6058.00	67.16	179.64	5881.15	273.48 S	206.07 W	278.75	10.30
6153.00	75.43	180.84	5911.59	363.38 S	206.47 W	368.63	8.78
6265.00	80.26	180.73	5935.17	472.83 S	207.97 W	478.08	4.32
6379.00	87.69	179.47	5947.13	586.12 S	208.16 W	591.33	6.61
6426.00	87.63	179.09	5949.05	633.08 S	207.57 W	638.26	0.81
6520.00	89.72	179.40	5951.22	727.04 S	206.33 W	732.16	2.25
6614.00	89.88	179.05	5951.55	821.03 S	205.05 W	826.08	0.40
6708.00	89.75	177.67	5951.85	914.99 S	202.36 W	919.94	1.48
6803.00	90.12	177.48	5951.96	1009.90 S	198.34 W	1014.72	0.44
6897.00	90.43	177.09	5951.50	1103.79 S	193.89 W	1108.46	0.53
6991.00	90.65	176.79	5950.62	1197.66 S	188.88 W	1202.16	0.40
7085.00	90.71	178.72	5949.50	1291.57 S	185.19 W	1295.95	2.05
7179.00	89.66	178.35	5949.20	1385.54 S	182.78 W	1389.82	1.18
7273.00	90.77	178.68	5948.85	1479.51 S	180.35 W	1483.69	1.23
7368.00	89.29	178.67	5948.80	1574.48 S	178.15 W	1578.58	1.56
7462.00	89.26	177.94	5949.98	1668.43 S	175.37 W	1672.42	0.78
7556.00	89.97	178.20	5950.62	1762.37 S	172.20 W	1766.25	0.80
7651.00	89.38	177.12	5951.15	1857.29 S	168.31 W	1861.04	1.29
7745.00	89.14	176.40	5952.37	1951.13 S	163.00 W	1954.71	0.81
7840.00	90.37	179.14	5952.77	2046.05 S	159.30 W	2049.50	3.16
7935.00	90.52	178.54	5952.03	2141.02 S	157.37 W	2144.39	0.65
8124.00	90.37	177.21	5950.56	2329.88 S	150.35 W	2333.00	0.71
8219.00	91.08	179.21	5949.36	2424.82 S	147.38 W	2427.84	2.24
8314.00	91.26	178.95	5947.42	2519.79 S	145.86 W	2522.73	0.34
8408.00	89.38	178.59	5946.88	2613.76 S	143.84 W	2616.62	2.04
8502.00	89.54	177.97	5947.77	2707.72 S	141.01 W	2710.47	0.67
8597.00	89.72	178.06	5948.38	2802.66 S	137.73 W	2805.29	0.22
8692.00	89.48	177.39	5949.05	2897.58 S	133.96 W	2900.08	0.76
8787.00	89.45	176.14	5949.94	2992.42 S	128.60 W	2994.75	1.31
8881.00	89.41	177.00	5950.87	3086.25 S	122.98 W	3088.40	0.92
9071.00	91.05	176.75	5950.11	3275.96 S	112.64 W	3277.78	0.87
9165.00	90.59	178.73	5948.77	3369.87 S	108.93 W	3371.56	2.15
9260.00	88.46	178.30	5949.56	3464.83 S	106.46 W	3466.43	2.28
9355.00	89.78	179.38	5951.02	3559.80 S	104.54 W	3561.31	1.80
9450.00	91.26	180.01	5950.15	3654.79 S	104.03 W	3656.26	1.70
9544.00	91.39	178.48	5947.97	3748.75 S	102.79 W	3750.16	1.64
9639.00	92.59	178.56	5944.68	3843.66 S	100.34 W	3844.97	1.27
9734.00	91.42	179.06	5941.36	3938.58 S	98.37 W	3939.81	1.34
9828.00	90.83	180.26	5939.51	4032.56 S	97.82 W	4033.74	1.42
9963.00	91.11	180.93	5937.22	4167.53 S	99.23 W	4168.70	0.54
10030.00	91.11	180.93	5935.93	4234.51 S	100.32 W	4235.69	0.01

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 181.49 DEGREES (GRID)
A TOTAL CORRECTION OF 7.06 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 10030.00 FEET
IS 4235.70 FEET ALONG 181.36 DEGREES (GRID)**

Final Survey is a Straightline Projection to Bit