

PCGK: Pressure Case Gamma
PCDC: Pressure Case Directional

1 : 600 / 1 : 240

Country : USA			
Field : Wattenberg			
Location : Lat: 40° 42' 56.66" North Long: 103° 56' 16.33" West			
Well : Gleason LC35-725			
Company : Noble Energy			
Rig : H&P P 273			
LOCATION			
Latitude : 40° 42' 56.66" North Longitude : 103° 56' 16.33" West			
UTM Easting = 3,433,020.774 ft UTM Northing = 1,507,401.872 ft			
Company : Noble Energy			
Rig : H&P P 273			
Well : Gleason LC35-725			
Field : Wattenberg			
Country : USA			
API Number : 05-123-40688			
Permanent Datum : Ground Level			
Log Measured From : Drill Floor			
Drilling Measured From : Drill Floor			
Depth Logged : 685.00 ft			
Date Logged : 04-May-15			
Total Depth MD : 10,258.00 ft			
Spud Date : 03-May-15			
Unit No. : 11703717			
Plot Type : Final			
Plot Date : 09-May-15			
Job No. : CA-XX-0902230470			
Elevation : 4886.00 ft			
Above Permanent Datum			
MD LOG			
Elev. KB			
DF 4910.00 ft			
GL 4886.00 ft			
WD N/A			
Other Services			
Directional Drilling			

WELL INFORMATION

MWD Run Number	100	200	300		
Date run completed	05-May-15	06-May-15	08-May-15		
Rig Bit Number	2	3	4		
Bit Size (in)	8.750	8.750	6.125		
Tool Nominal OD (in)	6.750	6.750	4.750		
Log Start Depth (MD, ft)	685.00	6,155.00	6,311.00		
Log End Depth (MD, ft)	6,155.00	6,311.00	10,258.00		
Drill or Wipe	Drill	Drill	Drill		
Drill/Wipe Start Date and Time	04-May-15 11:45	05-May-15 21:30	07-May-15 02:00		
Drill/Wipe End Date and Time	05-May-15 14:00	06-May-15 03:20	08-May-15 11:00		
Min Inc (deg) @ Depth (MD, ft)	1.15 @ 916.00	70.45 @ 6,163.00	85.22 @ 6,345.00		
Max Inc (deg) @ Depth (MD, ft)	62.09 @ 6,068.00	78.92 @ 6,258.00	93.43 @ 7,745.00		
Bit TFA(in2) / Bit Type	1.21 / PDC	1.21 / PDC	0.65 / PDC		
Flow Rate (gpm)	577.67	502.50	295.58		
Max AV (fpm) / CV (fpm) @ MWD	450.0 / 450.0	450.0 / 450.0	325.0 / 400.0		
Fluid Type	Fresh Water Gel	Fresh Water Gel	Fresh Water Gel		
Density (ppg) / Viscosity (spqt)	10.50 / 38.00	9.00 / 38.00	10.20 / 40.00		
Filtrate CL (ppm)	1,600.00	1,600.00	16,000.00		
pH / Fluid Loss (mptm)	9.00 / 9	9.00 / 10	9.20 / 8		
PV (cP) / YP (lhf2)	11 / 10.00	11 / 10.00	13 / 16.00		
% Solids / % Sand	3.60 / 0.50	5 / 0.1	44.50 / 0.50		
% Oil / Oil:Water Ratio	N/A / N/A	N/A / N/A	N/A / N/A		
Rm @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A		
Rmf @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A		
Rmc @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A		

Max Tool Temp (degF) / Source	163.20 / PCM	163.20 / PCM	212.92 / PCM		
Rm @ Max Tool Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A		
Lead MWD Engineer	Adam Sampson	Adam Sampson	Adam Sampson		
Customer Representative	Dave Neilson	Dave Neilson	Dave Neilson		

SENSOR INFORMATION

Downhole Processor Information

Tool Type	PCM	PCM	PCM		
Software Version	5.93	5.93	5.93		
Sub Serial Number	246473	1	12301676		
Insert Serial Number	11619996	11619996	11619996		
Date and Time Initialized	04-May-15 09:48	01-Jan-70 00:00	06-May-15 10:18		
Date and Time Read	06-May-15 07:47	06-May-15 07:54	08-May-15 18:54		
ECMB SW Version	N/A	N/A	N/A		

Directional Sensor Information

Tool Type	PCDC	PCDC	PCDC		
Distance From Bit (ft)	54.00	53.00	68.00		
Software Version	6.21	6.21	6.21		
Sub Serial Number	246473	246473	12301676		
Sonde Serial Number	11833222	11833222	11833222		
Sensor ID Number	N/A	N/A	N/A		
Toolface Offset (deg)	264.00	95.90	97.50		

Gamma Ray Sensor Information

Tool Type	PCG	PCG	PCG		
Distance From Bit (ft)	42.13	41.23	55.94		
Recorded Sample Period (sec)	10	10	10		
Software Version	8.15	8.15	8.15		
Sub Serial Number	246473	246473	12301676		
Insert/Sonde Serial Number	11579787	11579787	11579787		

REMARKS

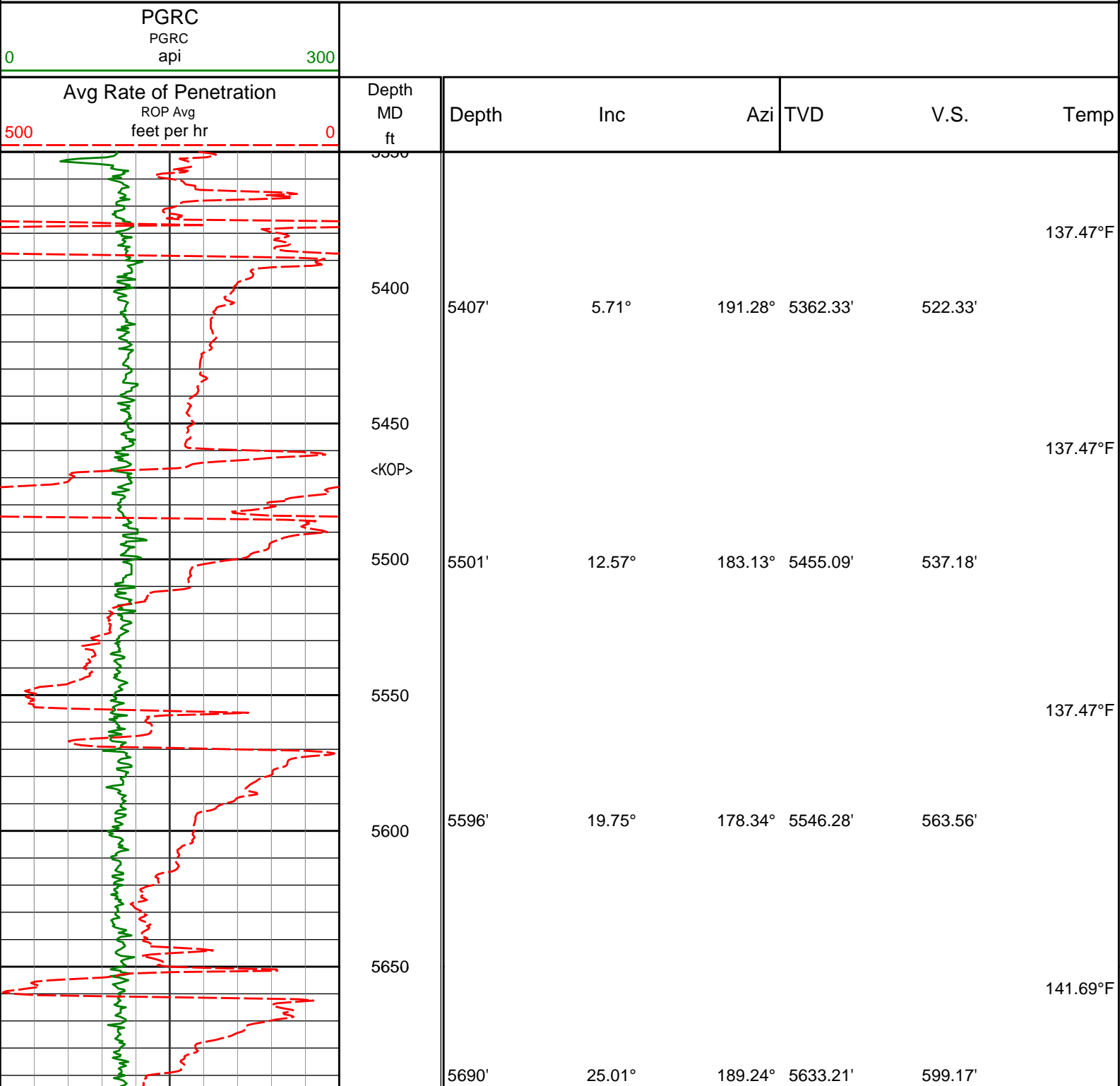
1. All depths are calibrated to the driller's pipe tally and are measured from the Rig drill floor.
2. No depth corrections have been made for pipe stretch or compression.
3. All data presented is recorded (memory data) unless otherwise stated.
 - ROPA: Average Rate of Penetration is real time data.
 - PGRC: Smooth Pressure Case Gamma Ray Borehole corrected is recorded data.
4. The following smoothing parameters have been applied to the data:
 - All ROP in logs - 0.5 ft interval, 1.2 ft coercion distance.
 - Gamma in 2" (1:600) logs - 1 ft interval, 3 ft coercion distance.
 - Gamma in 5" (1:240) logs - 0.5 ft interval, 0.6 ft coercion distance.
5. INSITE version 8.1.10.

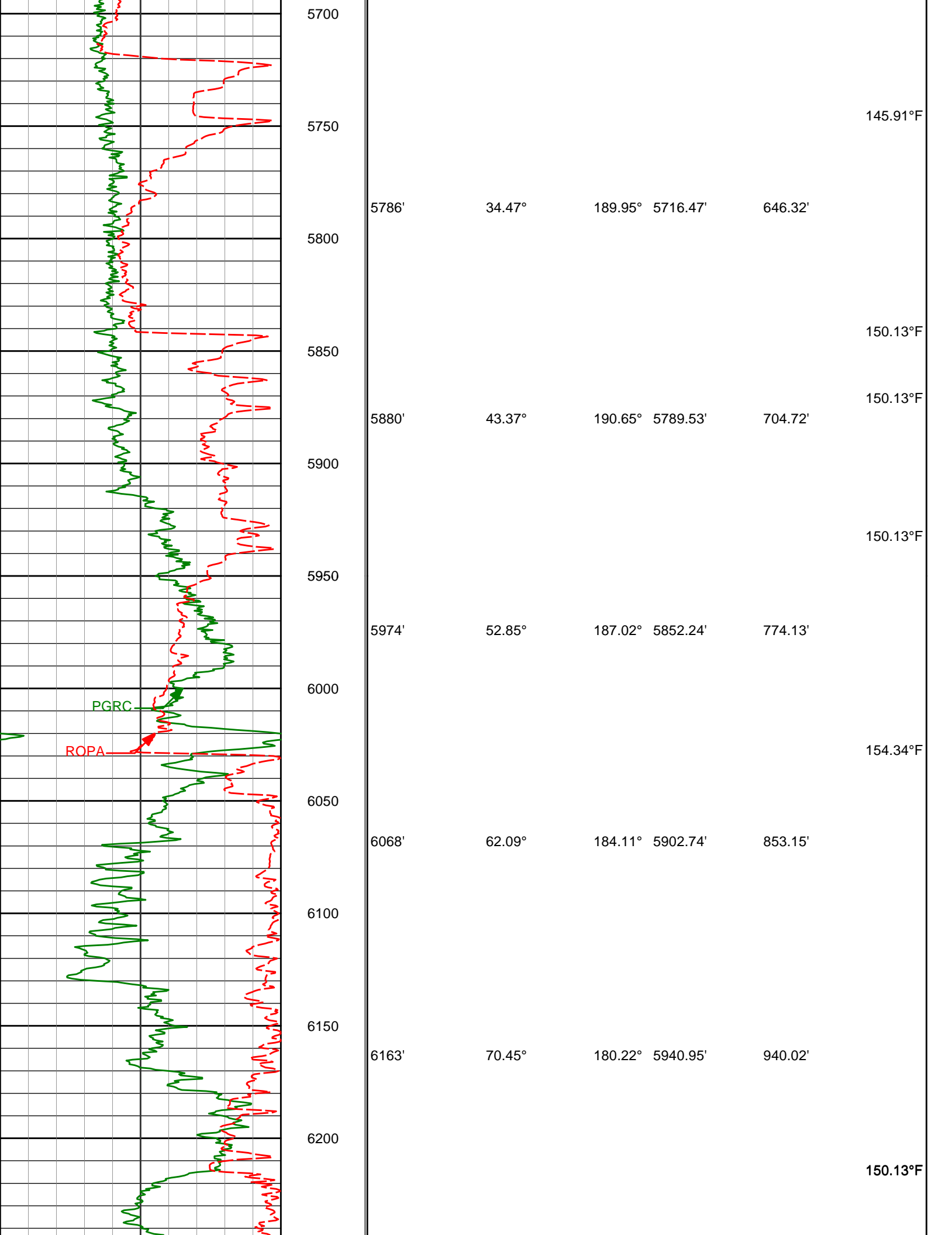
WARRANTY

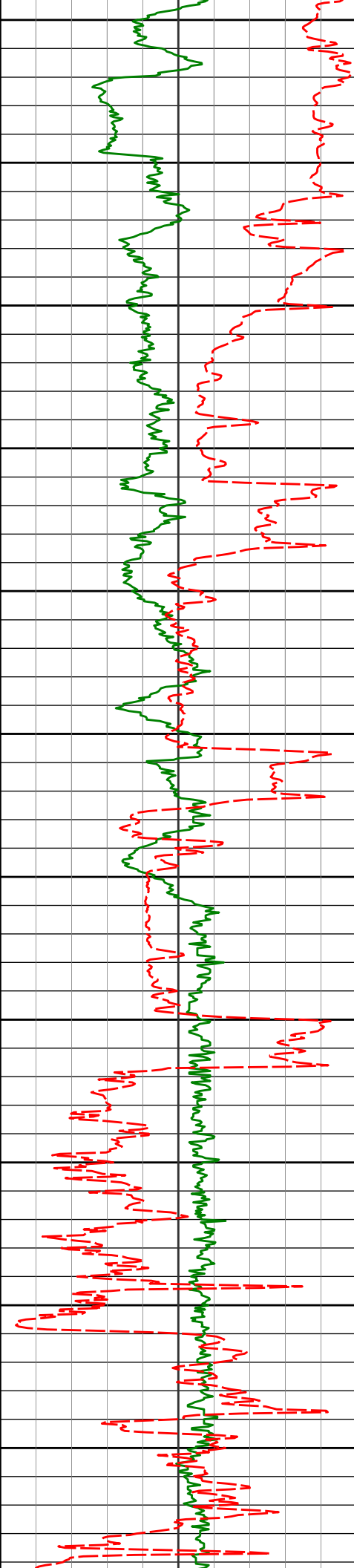
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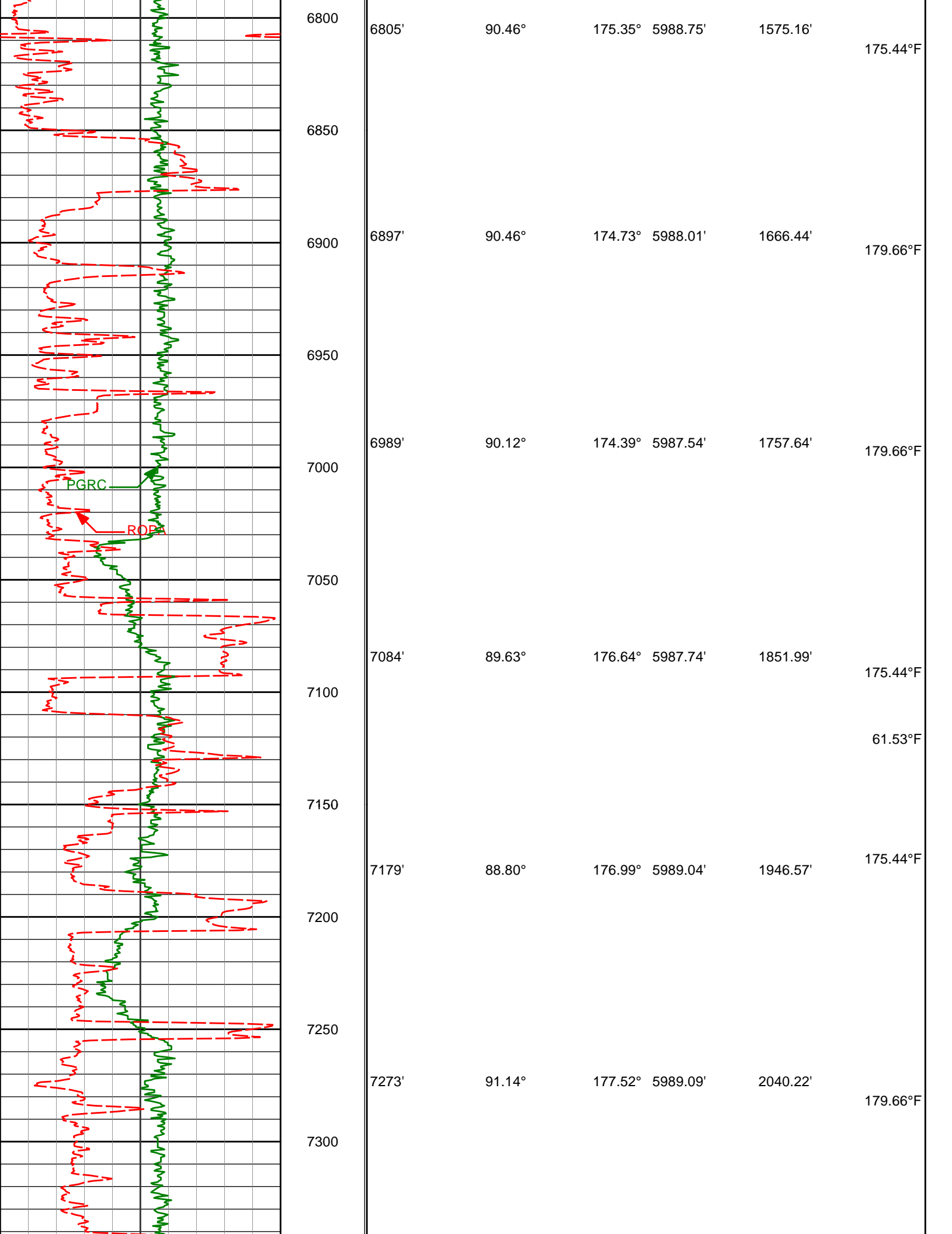
MD Detail 1:600 Scale

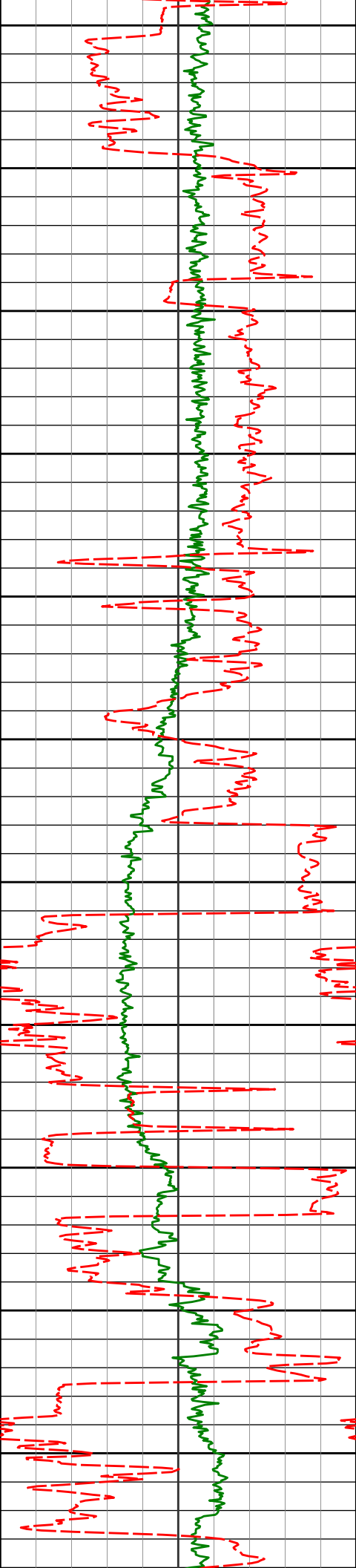






6250	6258'	78.92°	179.41°	5966.02'	1031.49'	
6300	<div><div></div><7" casing set at 6301' MD></div>					158.56°F
6350	6345'	85.22°	180.40°	5978.01'	1117.55'	
6400						
6450	6436'	86.95°	178.11°	5984.23'	1208.21'	158.56°F
6500						
6550	6528'	88.09°	176.68°	5988.22'	1299.80'	167.00°F
6600						
6650	6621'	90.06°	176.26°	5989.71'	1392.32'	167.00°F
6700						
6750	6713'	90.34°	175.62°	5989.39'	1483.78'	171.22°F





7350

183.88°F

7400

7450

7462'

90.65°

175.96°

5986.15'

2228.34'

188.09°F

7500

7550

7556'

91.11°

175.03°

5984.71'

2321.70'

188.09°F

7600

7650

7651'

92.19°

178.11°

5981.97'

2416.19'

183.88°F

7700

7750

7745'

93.43°

180.33°

5977.36'

2509.95'

188.09°F

7800

7850

7840'

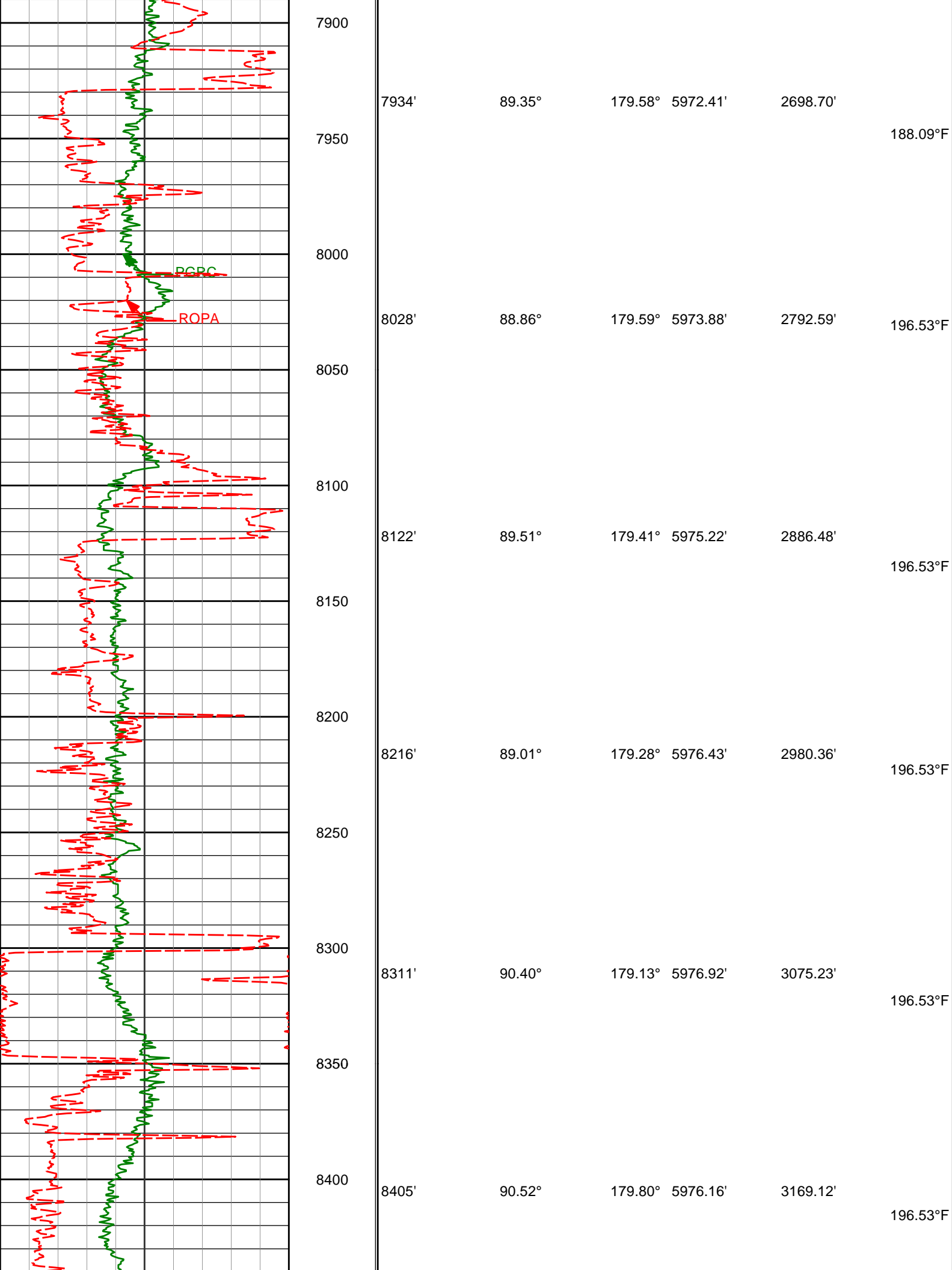
91.61°

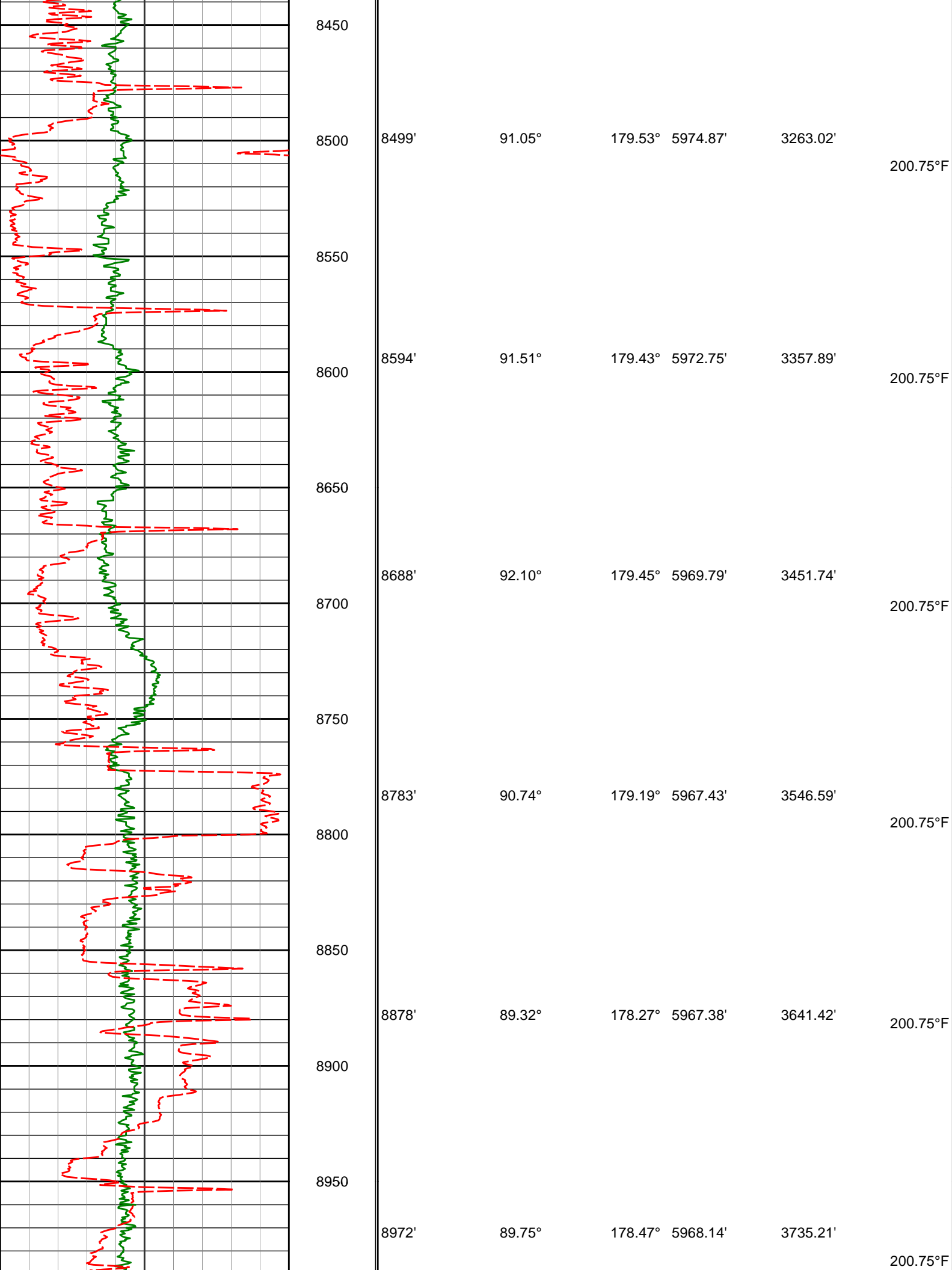
179.89°

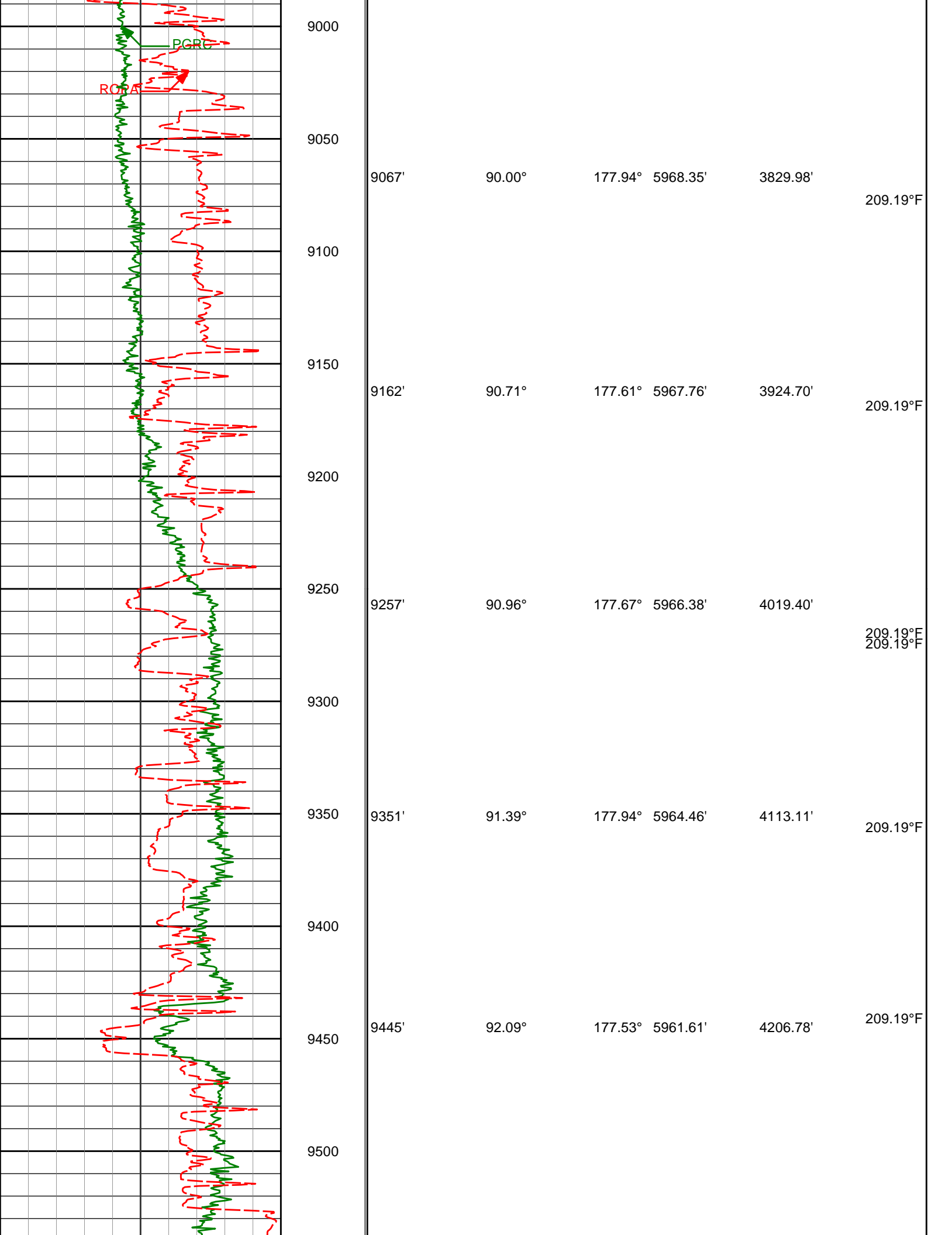
5973.19'

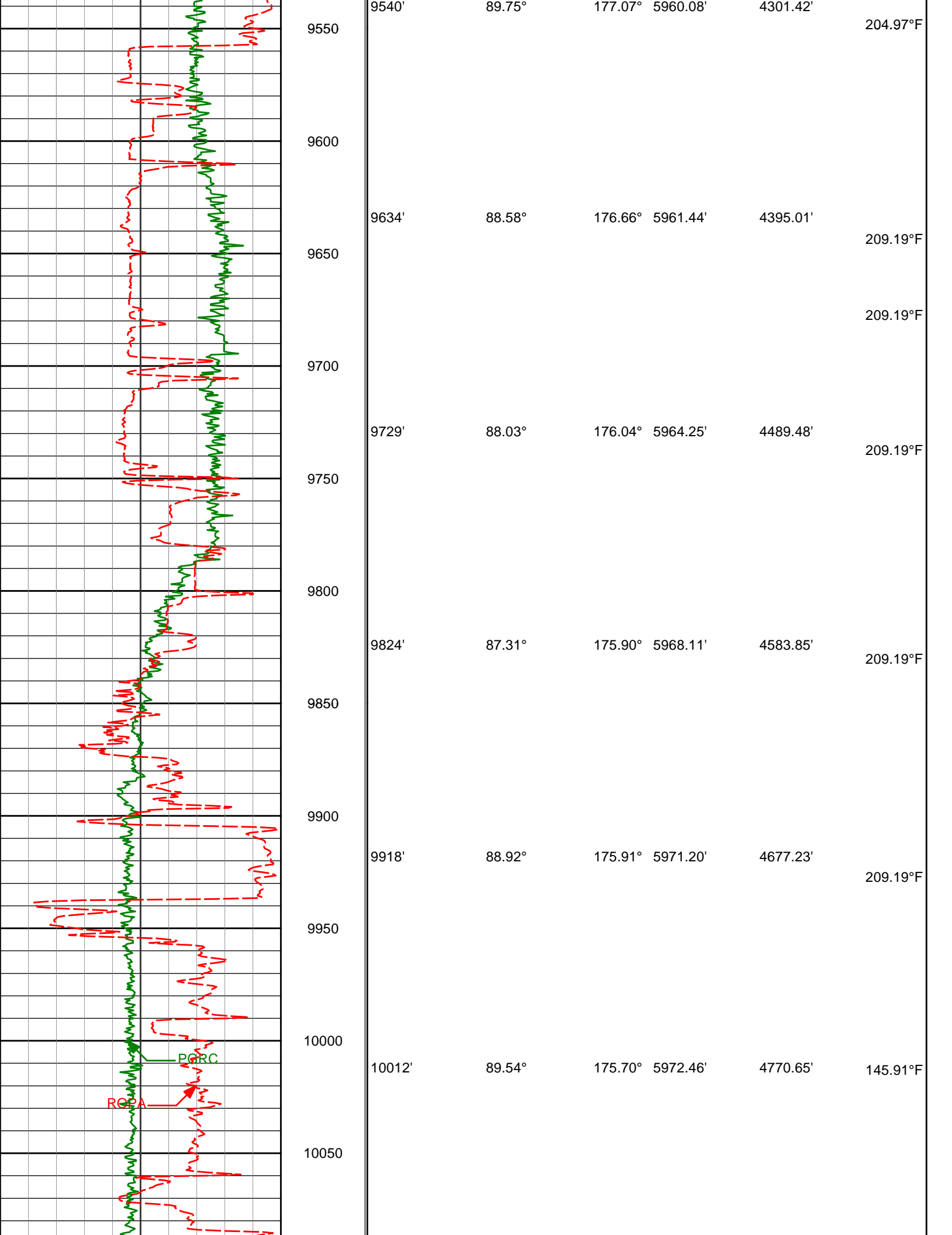
2604.79'

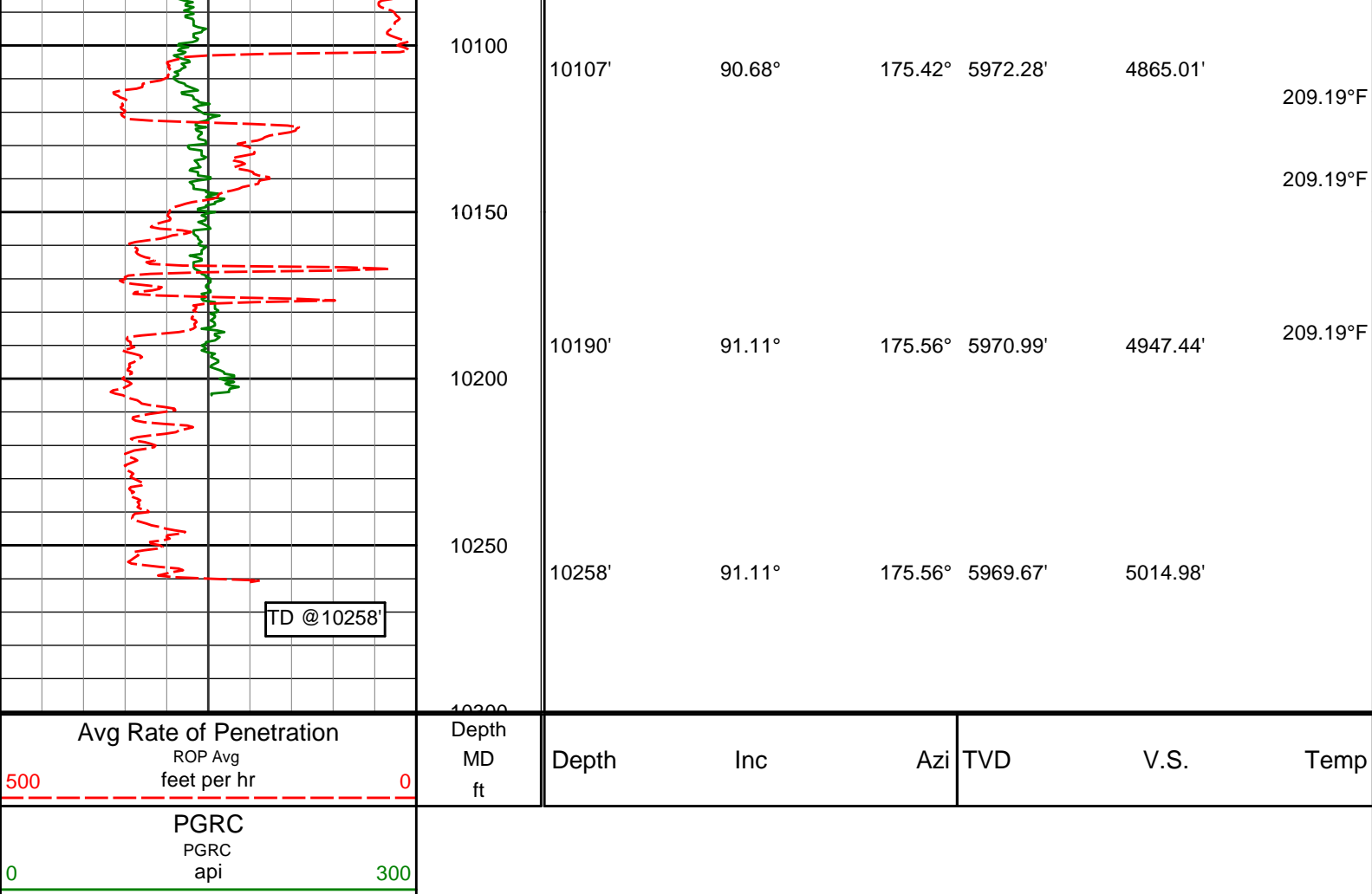
188.09°F



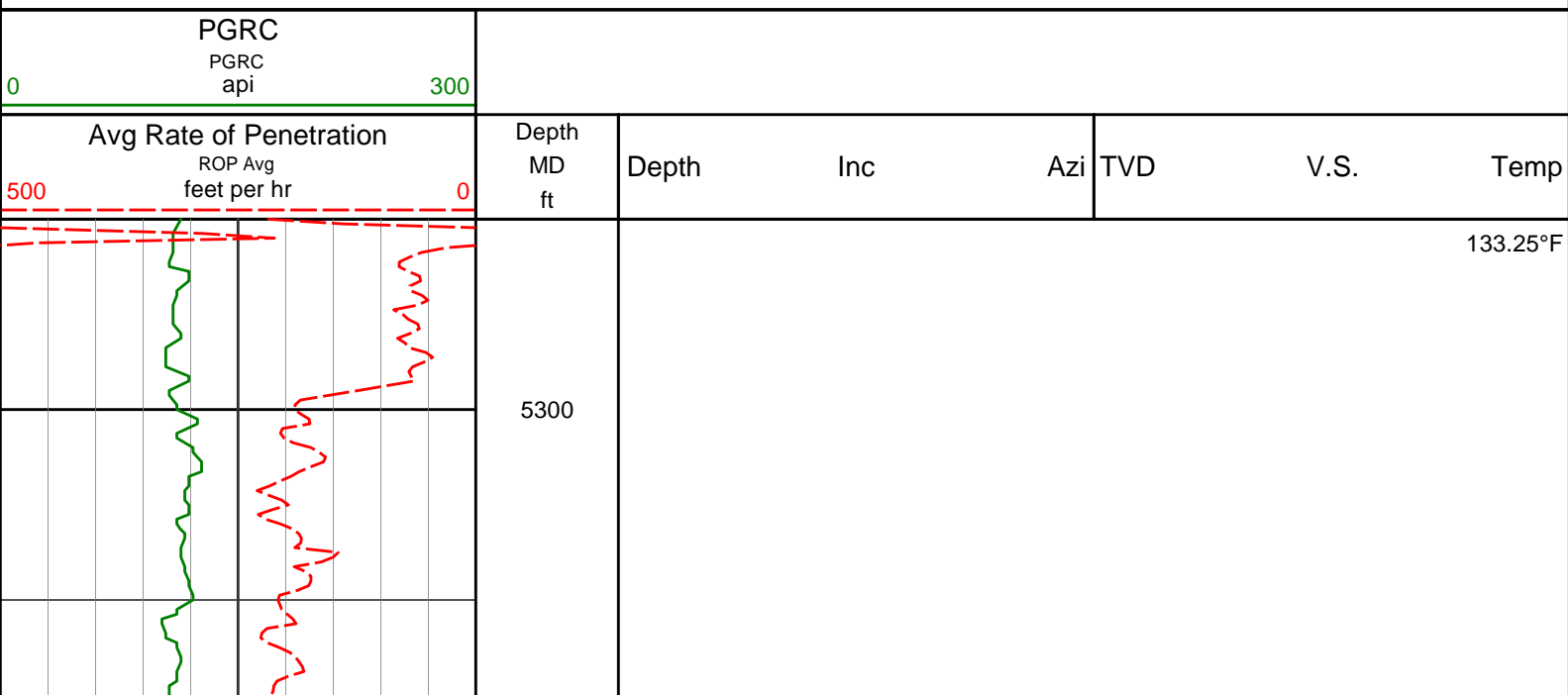


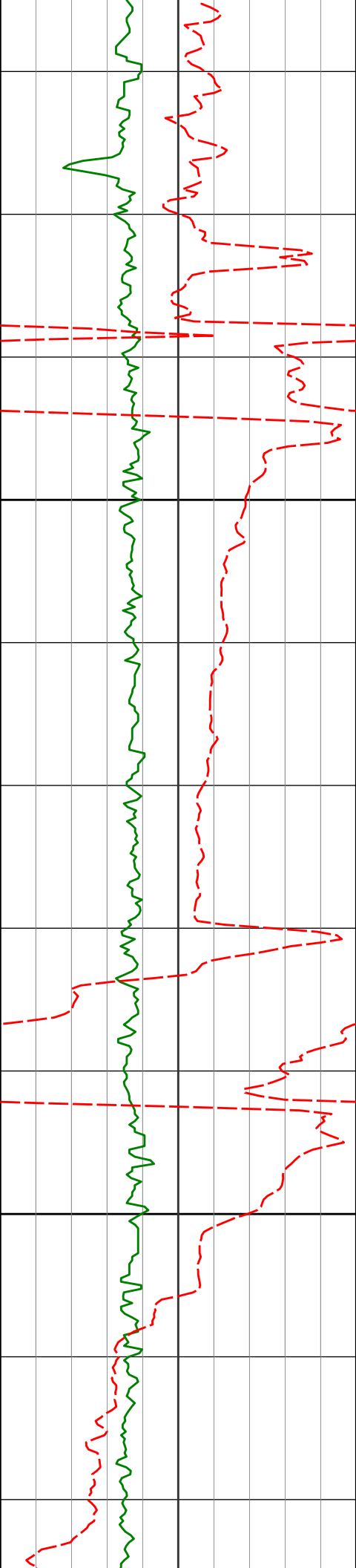






MD Detail 1:240 Scale





5400

<KOP>

5500

5407'

5501'

5.71°

12.57°

191.28°

183.13°

5362.33'

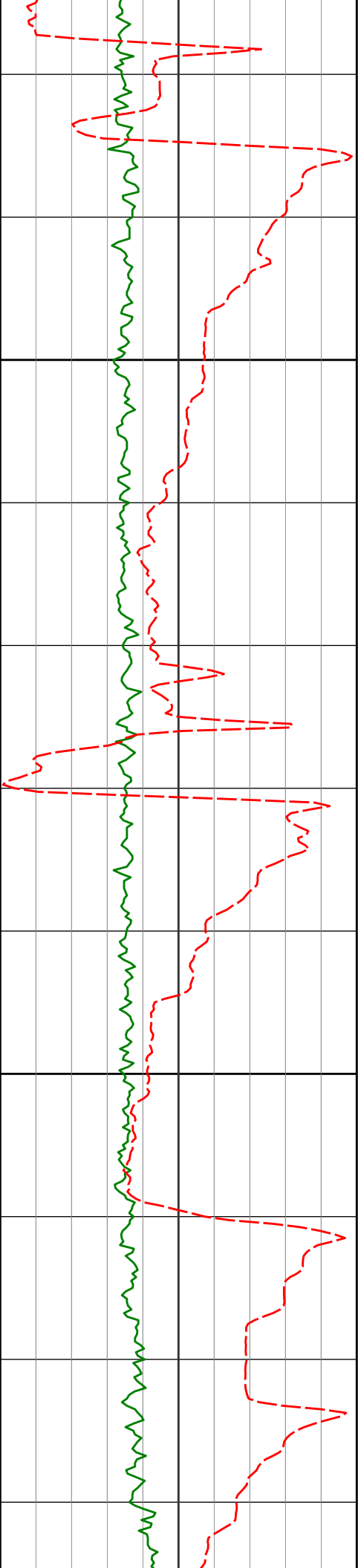
5455.09'

522.33'

537.18'

137.47°F

137.47°F



5600

5700

5596'

5690'

19.75°

25.01°

178.34°

189.24°

5546.28'

5633.21'

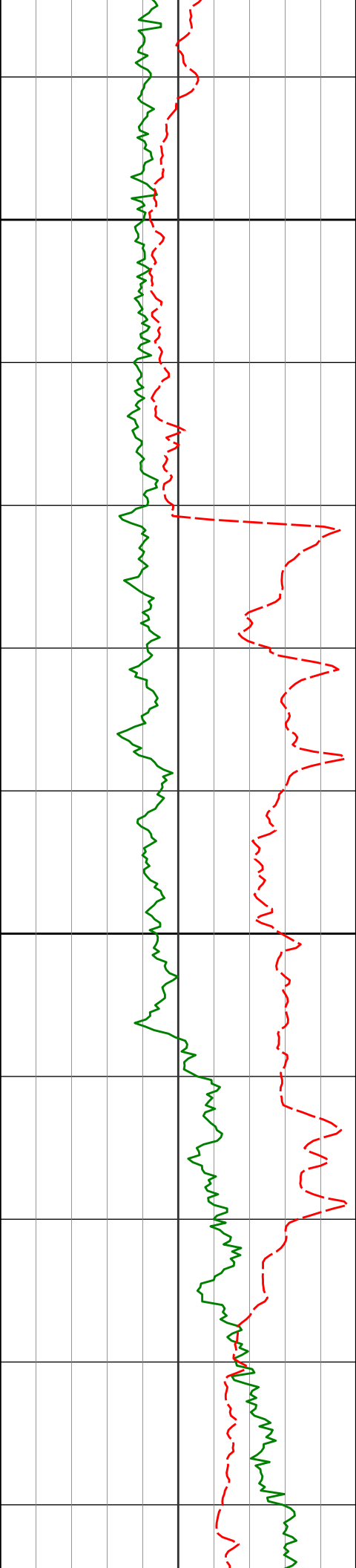
563.56'

599.17'

137.47°F

141.69°F

145.91°F



5800

5900

5786'

34.47°

189.95° 5716.47'

646.32'

5880'

43.37°

190.65° 5789.53'

704.72'

5974'

52.85°

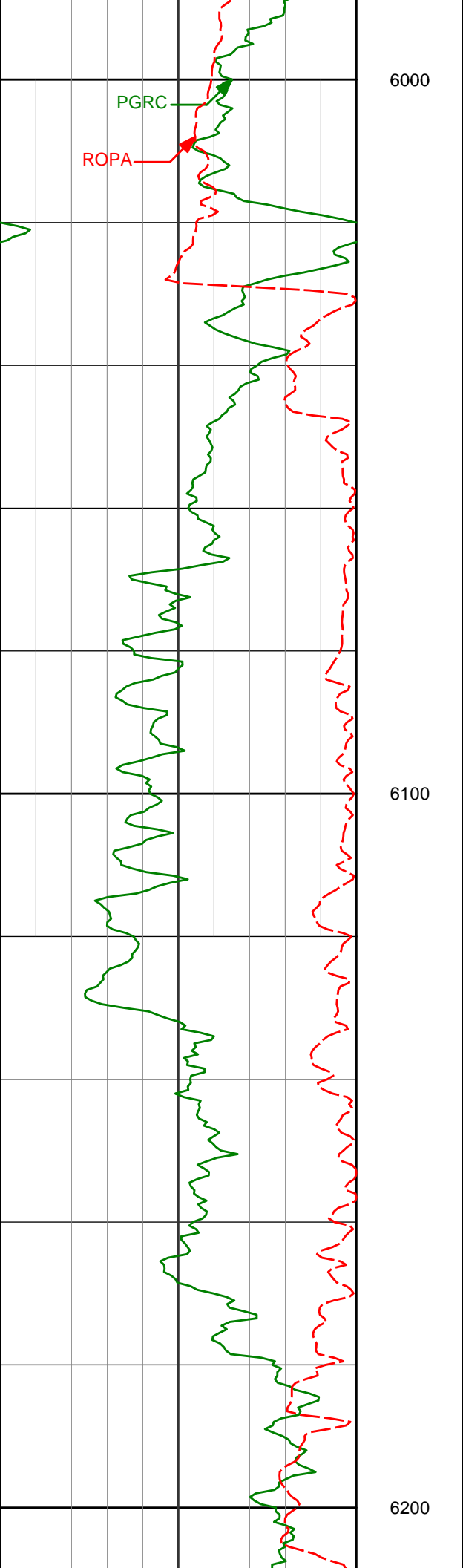
187.02° 5852.24'

774.13'

150.13°F

150.13°F

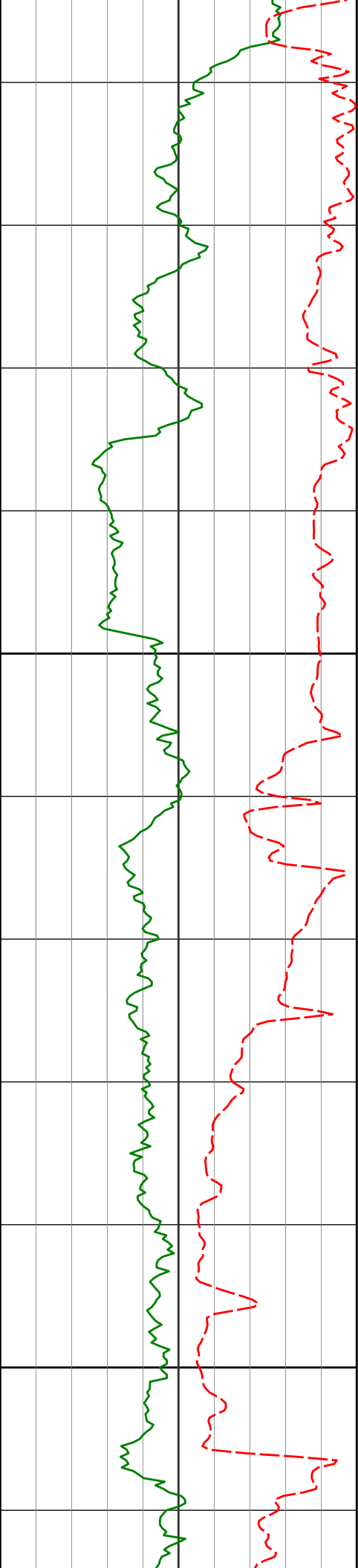
150.13°F



154.34°F

62.09° 184.11° 5902.74' 853.15'

70.45° 180.22° 5940.95' 940.02'



6258'

78.92°

179.41° 5966.02'

1031.49'

6300



<7" casing set at 6301' MD>

150.13°F

158.56°F

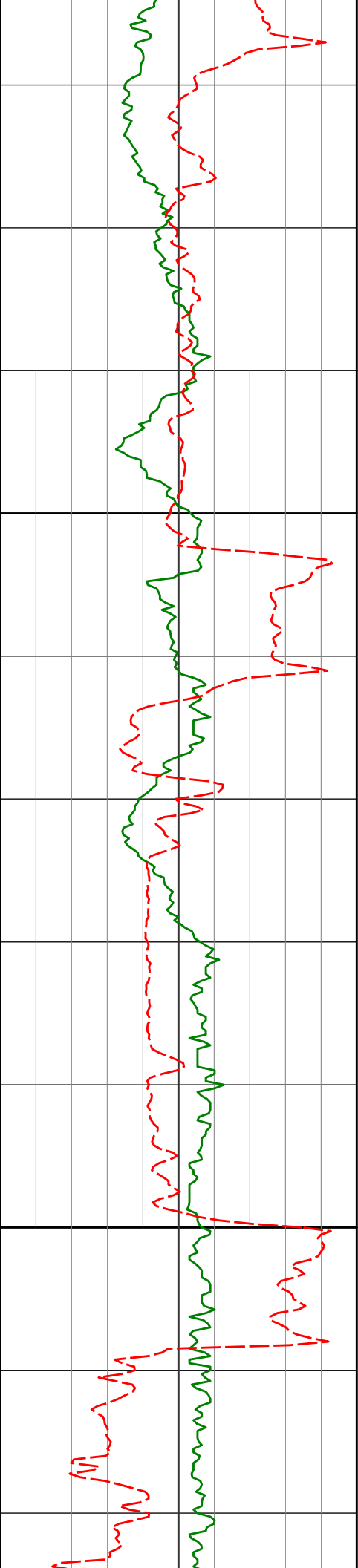
6345'

85.22°

180.40° 5978.01'

1117.55'

6400



6500

6600

6436'

86.95°

178.11° 5984.23'

1208.21'

158.56°F

6528'

88.09°

176.68° 5988.22'

1299.80'

167.00°F

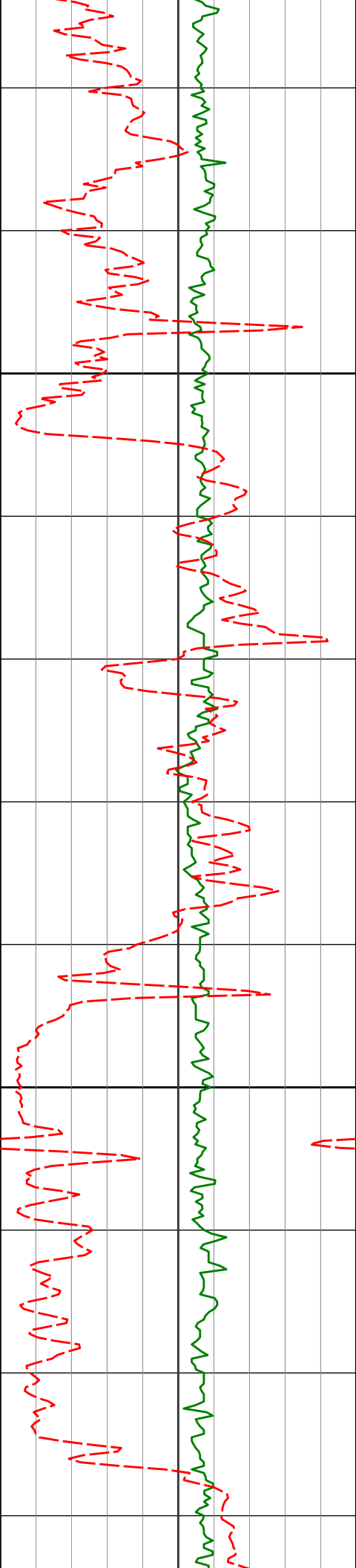
6621'

90.06°

176.26° 5989.71'

1392.32'

167.00°F



6700

6713'

90.34°

175.62° 5989.39'

1483.78'

171.22°F
171.22°F

6800

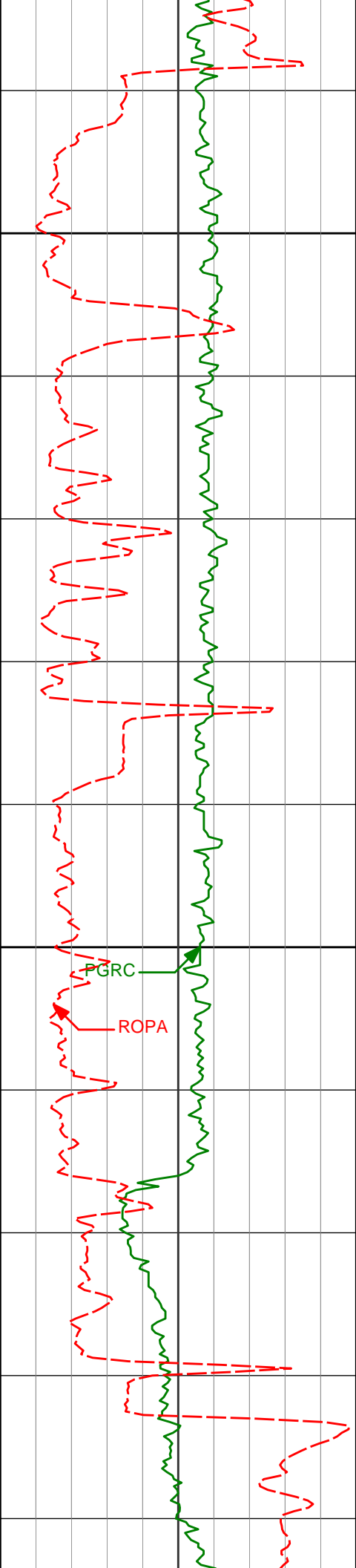
6805'

90.46°

175.35° 5988.75'

1575.16'

175.44°F



6900

7000

6897'

6989'

7084'

90.46°

90.12°

89.63°

174.73°

174.39°

176.64°

5988.01'

5987.54'

5987.74'

1666.44'

1757.64'

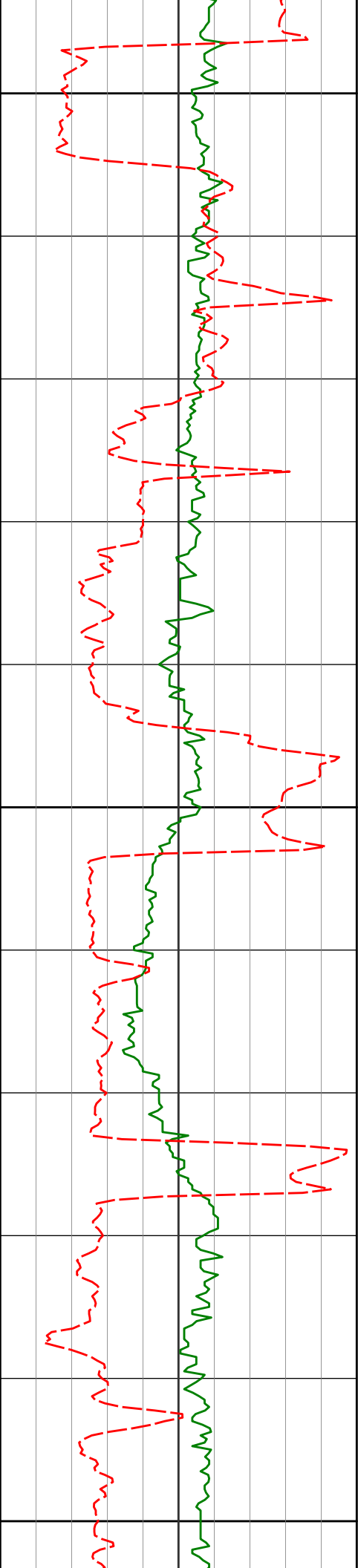
1851.99'

179.66°F

179.66°F

PGRC

ROPA



7100

7200

7300

7179'

7273'

88.80°

91.14°

176.99° 5989.04'

177.52° 5989.09'

1946.57'

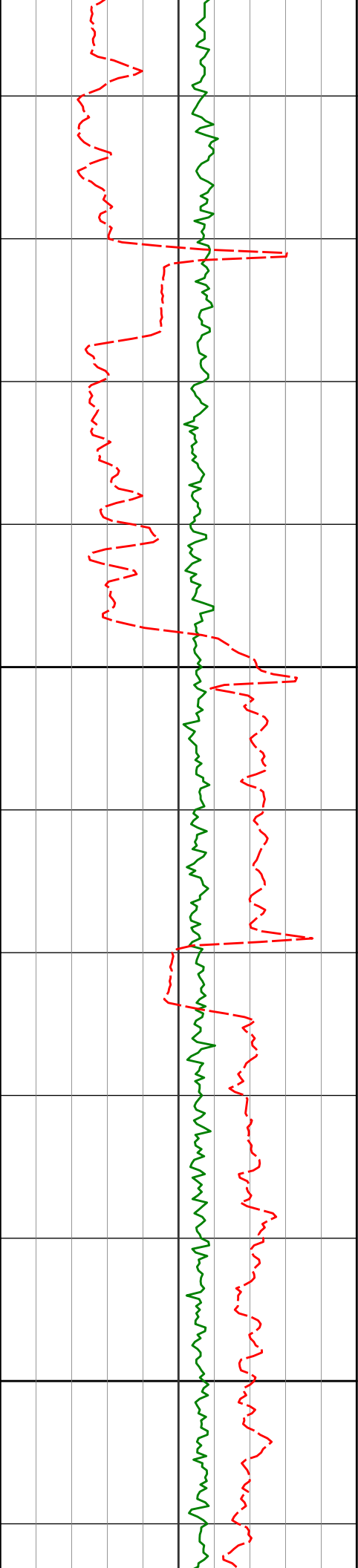
2040.22'

175.44°F

61.53°F

175.44°F

179.66°F



7400

7500

7462'

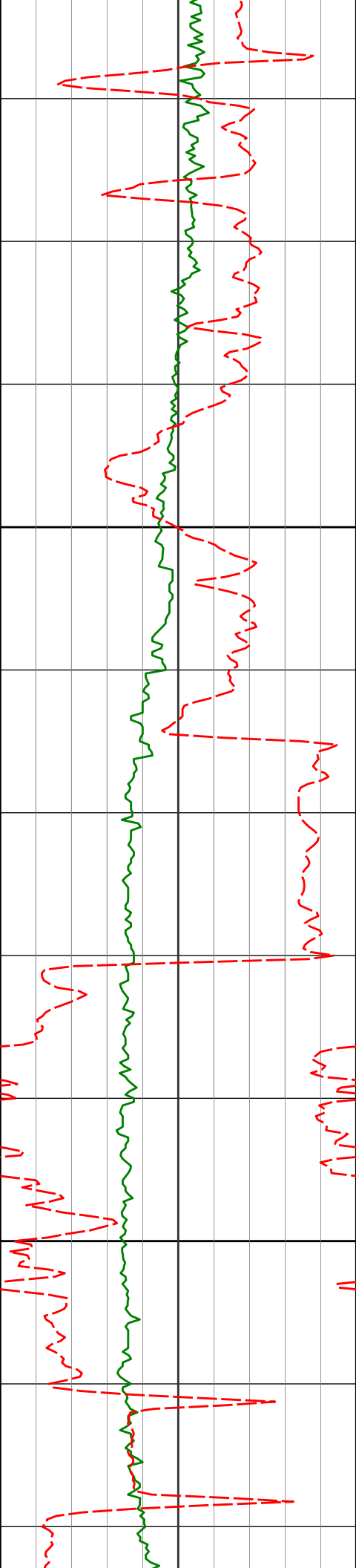
90.65°

175.96° 5986.15'

2228.34'

188.09°F

183.88°F



7600

7700

7556'

91.11°

175.03°

5984.71'

2321.70'

188.09°F

7651'

92.19°

178.11°

5981.97'

2416.19'

183.88°F

7745'

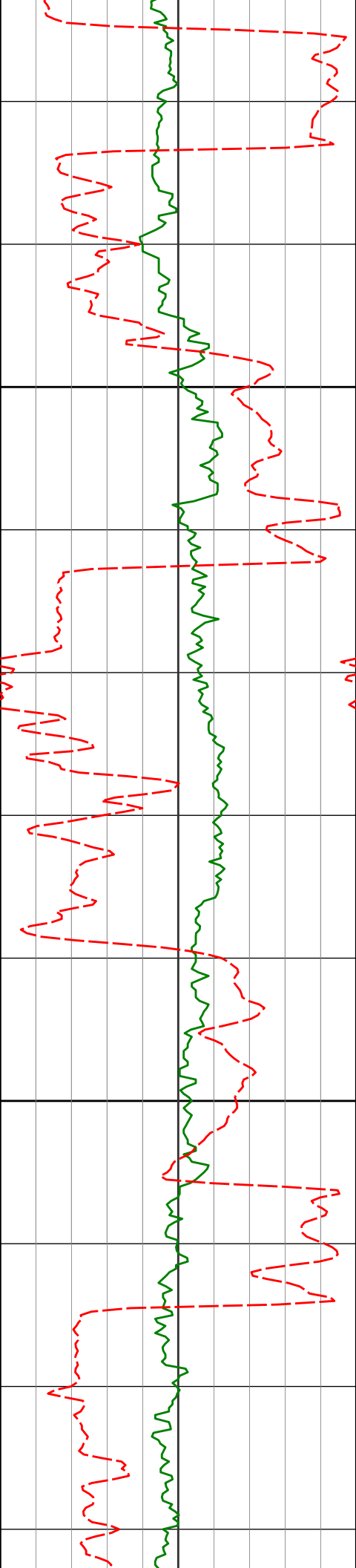
93.43°

180.33°

5977.36'

2509.95'

188.09°F



7800

7900

7840'

91.61°

179.89° 5973.19'

2604.79'

188.09°F

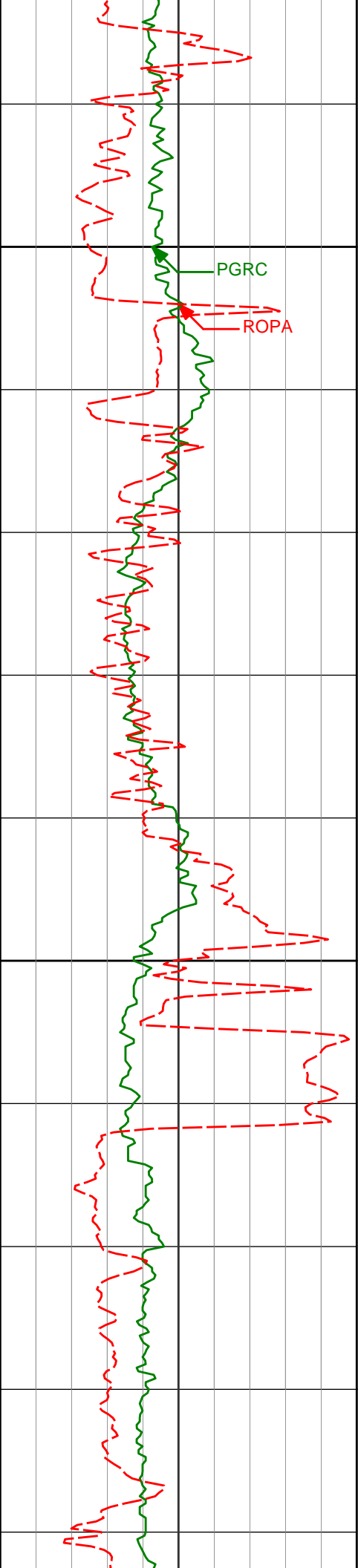
7934'

89.35°

179.58° 5972.41'

2698.70'

188.09°F



8000

PGRC

ROPA

8028'

88.86°

179.59° 5973.88'

2792.59'

196.53°F

8100

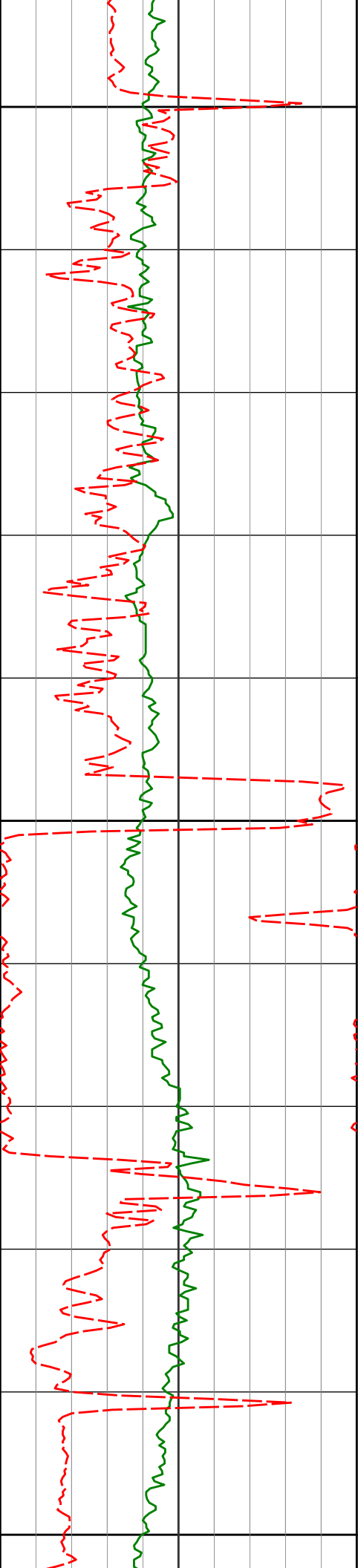
8122'

89.51°

179.41° 5975.22'

2886.48'

196.53°F



8200

8216'

89.01°

179.28° 5976.43'

2980.36'

196.53°F

8300

8311'

90.40°

179.13° 5976.92'

3075.23'

196.53°F

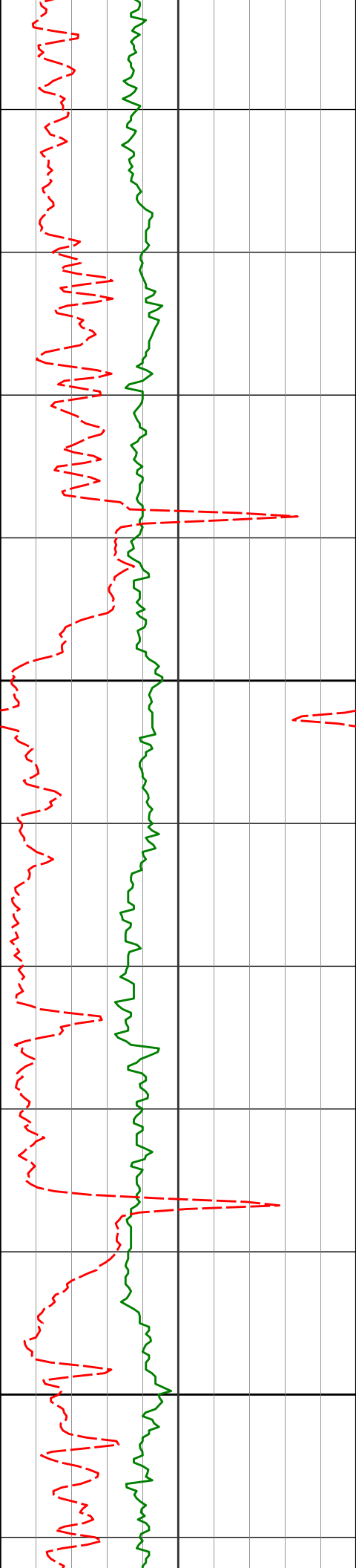
8400

8425'

89.50°

179.00° 5976.10'

3100.10'



8500

8600

8499'

8594'

91.05°

91.51°

179.53° 5974.87'

179.43° 5972.75'

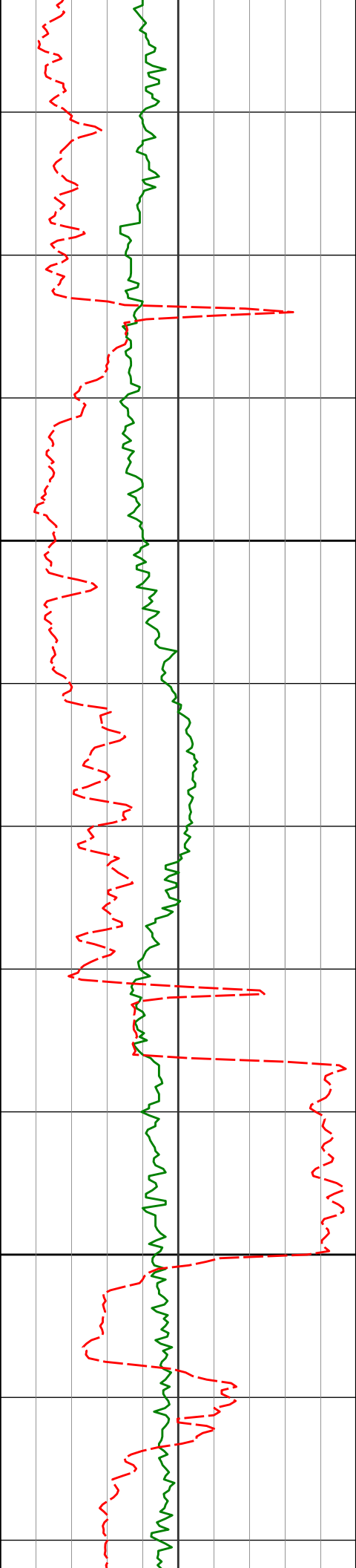
3263.02'

3357.89'

196.53°F

200.75°F

200.75°F



8700

8800

8688'

92.10°

179.45° 5969.79'

3451.74'

200.75°F

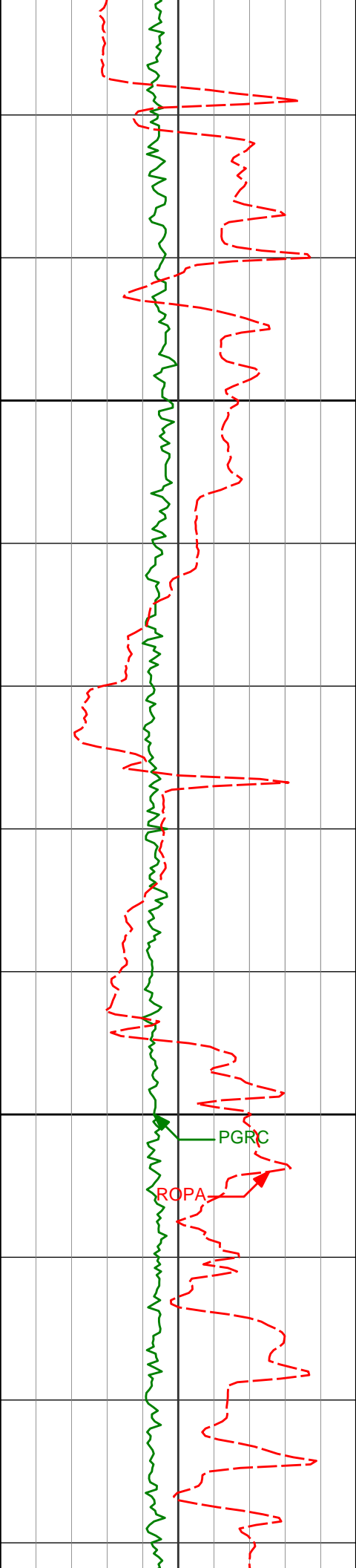
8783'

90.74°

179.19° 5967.43'

3546.59'

200.75°F



8900

9000

8878'

89.32°

178.27° 5967.38'

3641.42'

200.75°F

8972'

89.75°

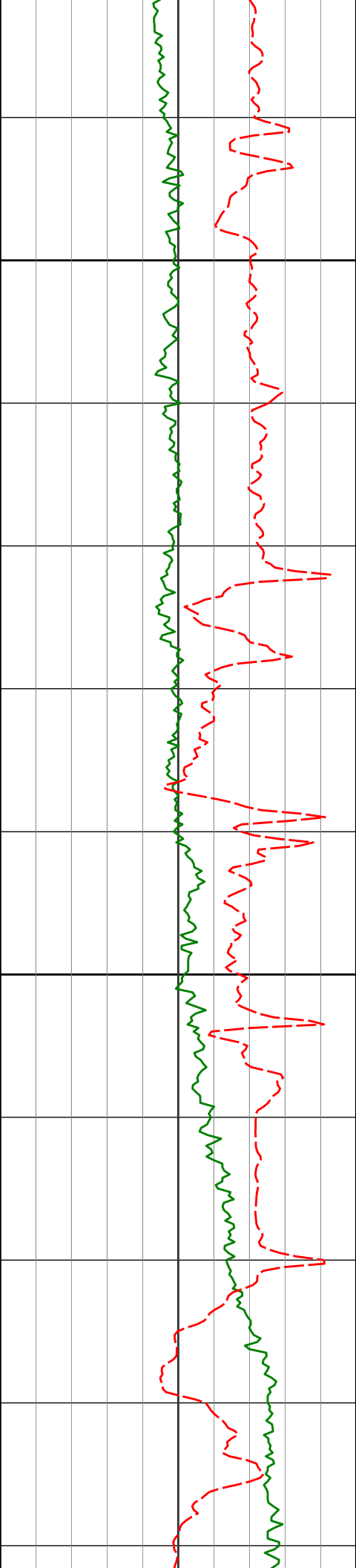
178.47° 5968.14'

3735.21'

200.75°F

PGRC

ROPA



9100

9200

9067'

90.00°

177.94° 5968.35'

3829.98'

209.19°F

9162'

90.71°

177.61° 5967.76'

3924.70'

209.19°F

9257'

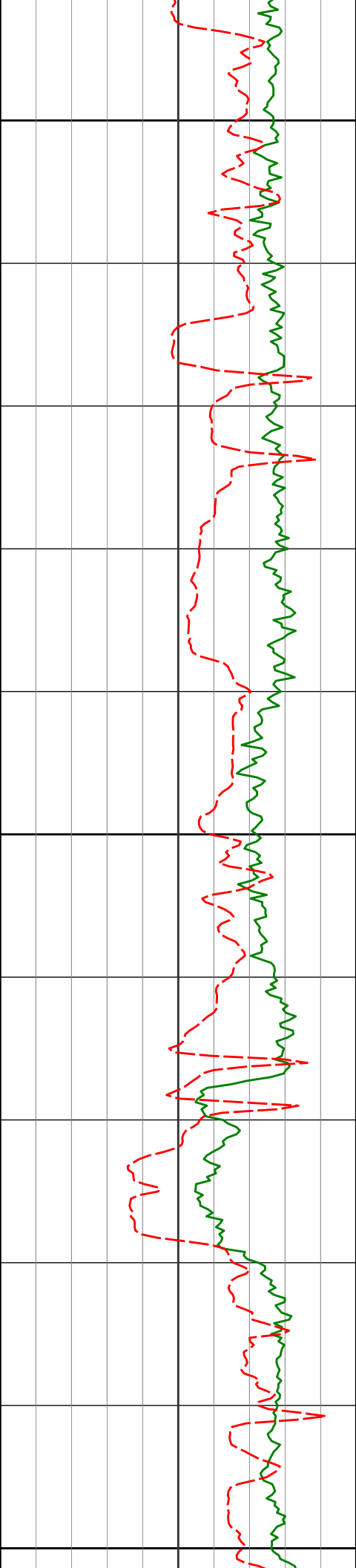
90.96°

177.67° 5966.38'

4019.40'

209.19°F

209.19°F



9300

9351'

91.39°

177.94° 5964.46'

4113.11'

209.19°F

9400

9445'

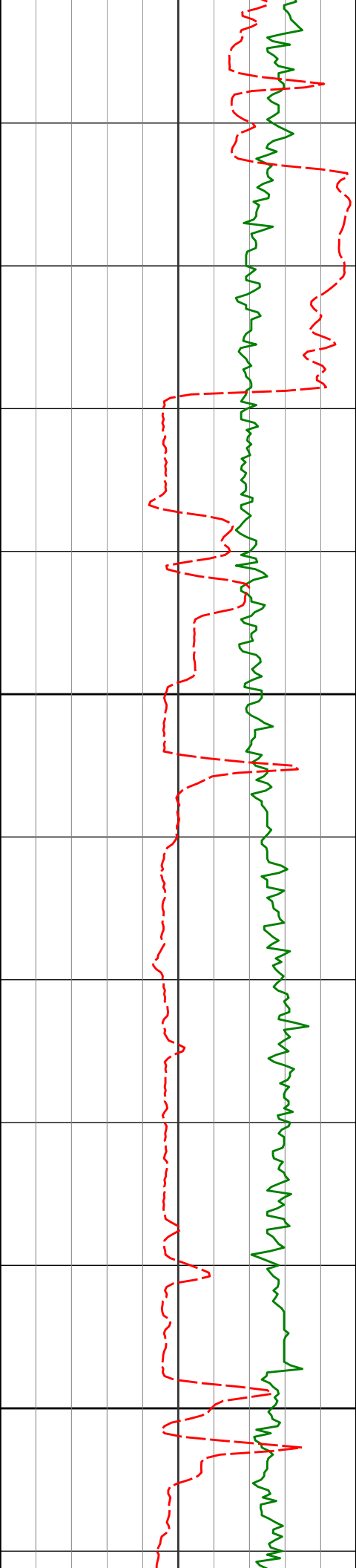
92.09°

177.53° 5961.61'

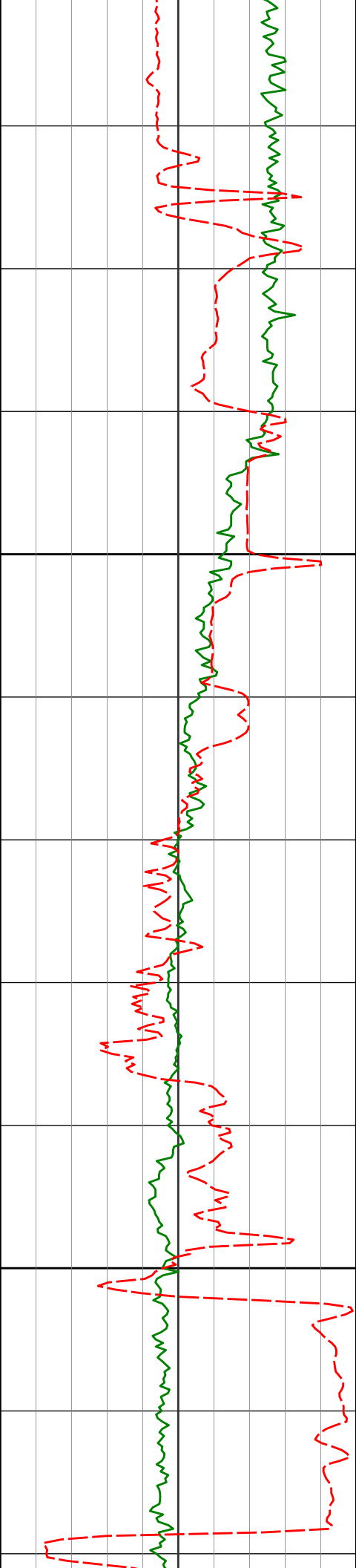
4206.78'

209.19°F

9500



9540'	89.75°	177.07°	5960.08'	4301.42'	204.97°F
9600					
9634'	88.58°	176.66°	5961.44'	4395.01'	209.19°F
					209.19°F
9700					



9800

9900

9729'

88.03°

176.04° 5964.25'

4489.48'

209.19°F

9824'

87.31°

175.90° 5968.11'

4583.85'

209.19°F

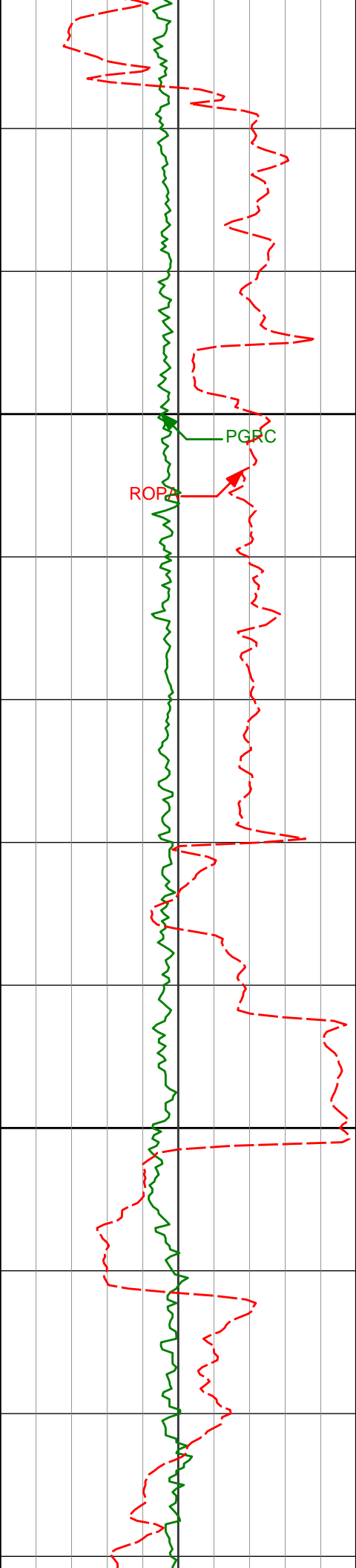
9918'

88.92°

175.91° 5971.20'

4677.23'

209.19°F



10000

10012'

89.54°

175.70° 5972.46'

4770.65'

145.91°F

10100

10107'

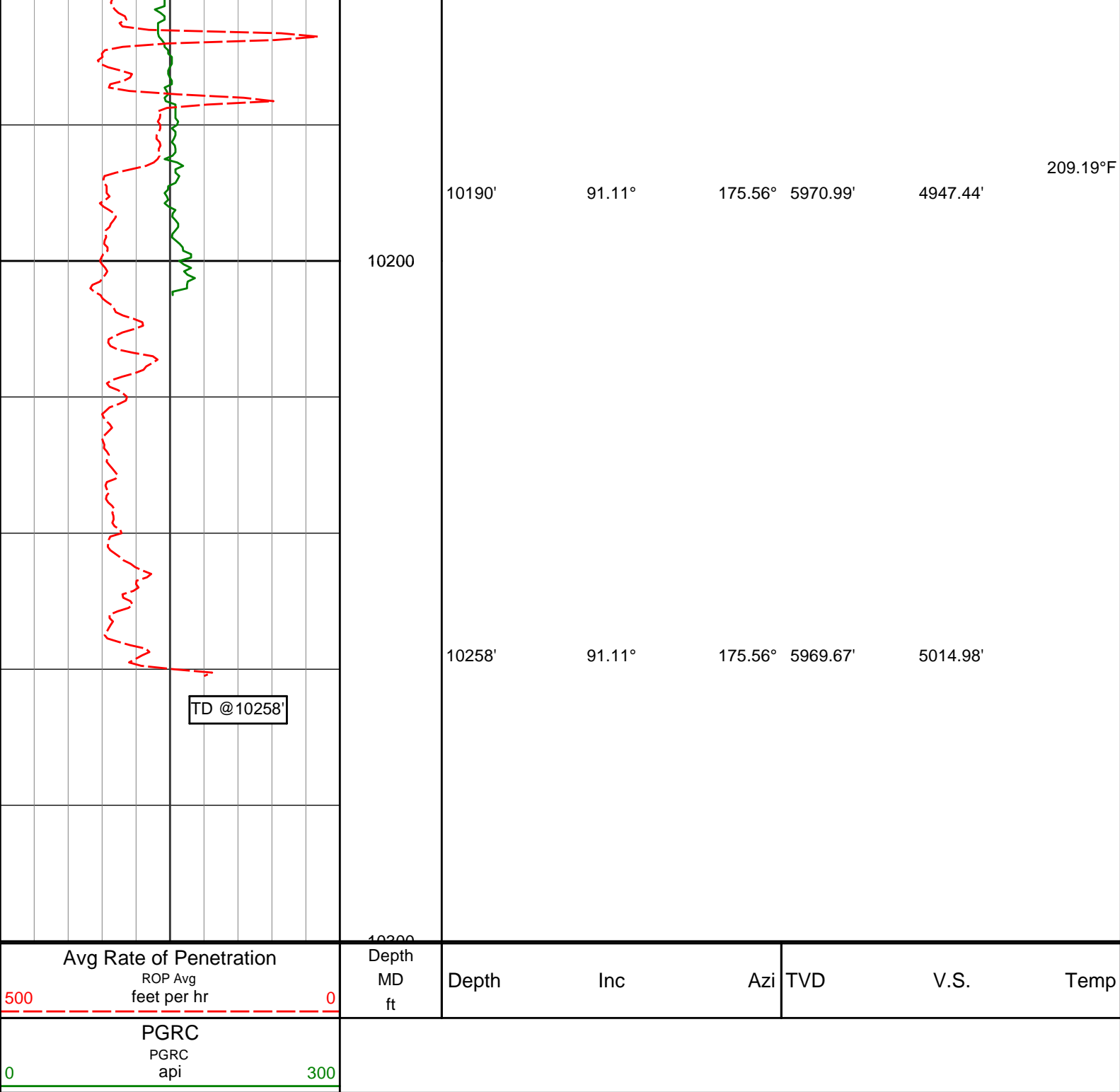
90.68°

175.42° 5972.28'

4865.01'

209.19°F

209.19°F



HALLIBURTON

DIRECTIONAL SURVEY REPORT

**Noble Energy
Gleason LC35-725
Wattenberg
Weld Colorado
USA
CA-XX-0902230470**

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	0.45	89.86	250.00	0.01 S	0.02 E	0.02	0.18

230.00	0.43	90.86	230.00	0.01 S	0.98 E	0.02	0.18
500.00	0.91	90.86	499.98	0.06 S	3.95 E	-0.09	0.18
728.00	1.32	90.86	727.94	0.13 S	8.38 E	-0.19	0.18
822.00	1.17	86.42	821.91	0.08 S	10.42 E	-0.31	0.18
916.00	1.15	83.89	915.89	0.08 N	12.32 E	-0.54	0.06
1011.00	1.45	241.68	1010.89	0.39 S	12.21 E	-0.07	2.69
1105.00	3.18	241.74	1104.80	2.19 S	8.86 E	1.85	1.84
1198.00	5.11	222.52	1197.56	6.46 S	3.79 E	6.31	2.52
1290.00	6.94	222.33	1289.05	13.59 S	2.72 W	13.68	1.99
1383.00	9.97	217.69	1381.03	24.11 S	11.42 W	24.53	3.34
1475.00	9.78	219.35	1471.67	36.46 S	21.25 W	37.24	0.37
1567.00	9.56	218.74	1562.36	48.46 S	30.98 W	49.60	0.27
1660.00	10.36	211.88	1653.96	61.59 S	40.23 W	63.06	1.54
1844.00	9.56	210.57	1835.19	88.79 S	56.74 W	90.86	0.45
2027.00	9.02	204.56	2015.79	114.91 S	70.42 W	117.48	0.61
2119.00	8.63	201.78	2106.70	127.87 S	75.98 W	130.65	0.63
2210.00	9.24	213.49	2196.61	140.30 S	82.54 W	143.32	2.10
2394.00	9.10	210.18	2378.26	165.20 S	98.01 W	168.78	0.30
2487.00	9.15	208.53	2470.08	178.05 S	105.23 W	181.89	0.28
2579.00	8.79	216.99	2560.96	190.09 S	112.96 W	194.22	1.48
2671.00	8.82	214.31	2651.88	201.53 S	121.16 W	205.96	0.45
2858.00	8.77	214.39	2836.68	225.14 S	137.30 W	230.16	0.02
2952.00	8.83	214.92	2929.57	236.97 S	145.47 W	242.29	0.10
3046.00	8.47	218.05	3022.50	248.34 S	153.87 W	253.96	0.63
3141.00	8.08	217.26	3116.51	259.16 S	162.23 W	265.09	0.43
3236.00	8.96	206.60	3210.47	271.09 S	169.58 W	277.29	1.90
3424.00	8.89	203.66	3396.19	297.49 S	181.97 W	304.14	0.25
3519.00	9.07	203.35	3490.03	311.09 S	187.88 W	317.95	0.20
3613.00	9.31	209.03	3582.82	324.54 S	194.51 W	331.64	1.00
3708.00	9.76	206.70	3676.51	338.46 S	201.86 W	345.82	0.62
3802.00	9.67	205.27	3769.16	352.71 S	208.81 W	360.33	0.27
3897.00	9.12	214.00	3862.90	366.16 S	216.42 W	374.06	1.60
3991.00	8.71	211.90	3955.76	378.38 S	224.35 W	386.57	0.55
4085.00	7.83	208.32	4048.78	390.06 S	231.14 W	398.49	1.09
4180.00	7.70	208.19	4142.91	401.37 S	237.22 W	410.02	0.13
4274.00	8.06	223.25	4236.03	411.72 S	244.72 W	420.65	2.22
4368.00	8.18	220.65	4329.09	421.60 S	253.59 W	430.85	0.41
4652.00	6.62	212.19	4610.73	450.78 S	275.47 W	460.84	0.67
4747.00	6.75	219.39	4705.08	459.73 S	281.93 W	470.03	0.89
4841.00	6.38	214.78	4798.46	468.29 S	288.41 W	478.83	0.69
5124.00	4.73	206.62	5080.13	491.65 S	302.62 W	502.71	0.64
5218.00	3.16	211.43	5173.90	497.33 S	305.71 W	508.50	1.71
5407.00	5.71	191.28	5362.33	510.99 S	310.26 W	522.33	1.56
5501.00	12.57	183.13	5455.09	525.81 S	311.74 W	537.18	7.41
5596.00	19.75	178.34	5546.28	552.20 S	311.84 W	563.56	7.68
5690.00	25.01	189.24	5633.21	587.73 S	314.58 W	599.17	7.11
5786.00	34.47	189.95	5716.47	634.62 S	322.55 W	646.32	9.86
5880.00	43.37	190.65	5789.53	692.65 S	333.13 W	704.72	9.48
5974.00	52.85	187.02	5852.24	761.72 S	343.70 W	774.13	10.48
6068.00	62.09	184.11	5902.74	840.51 S	351.28 W	853.15	10.17
6163.00	70.45	180.22	5940.95	927.32 S	354.46 W	940.02	9.57
6258.00	78.92	179.41	5966.02	1018.86 S	354.16 W	1031.49	8.95
6345.00	85.22	180.40	5978.01	1104.99 S	354.02 W	1117.55	7.33
6436.00	86.95	178.11	5984.23	1195.76 S	352.84 W	1208.21	3.14
6528.00	88.09	176.68	5988.22	1287.57 S	348.67 W	1299.80	1.99
6621.00	90.06	176.26	5989.71	1380.38 S	342.94 W	1392.32	2.17
6713.00	90.34	175.62	5989.39	1472.15 S	336.43 W	1483.78	0.76
6805.00	90.46	175.35	5988.75	1563.86 S	329.19 W	1575.16	0.32
6897.00	90.46	174.73	5988.01	1655.51 S	321.25 W	1666.44	0.68
6989.00	90.12	174.39	5987.54	1747.10 S	312.53 W	1757.64	0.52
7084.00	89.63	176.64	5987.74	1841.80 S	305.10 W	1851.99	2.41
7179.00	88.80	176.99	5989.04	1936.64 S	299.82 W	1946.57	0.95
7273.00	91.14	177.52	5989.09	2030.53 S	295.32 W	2040.22	2.55
7462.00	90.65	175.96	5986.15	2219.19 S	284.58 W	2228.34	0.87
7556.00	91.11	175.03	5984.71	2312.89 S	277.20 W	2321.70	1.10
7651.00	92.19	178.11	5981.97	2407.67 S	271.52 W	2416.19	3.44
7745.00	93.43	180.33	5977.36	2501.54 S	270.24 W	2509.95	2.70
7840.00	91.61	179.89	5973.19	2596.44 S	270.43 W	2604.79	1.97
7934.00	89.35	179.58	5972.41	2690.43 S	269.99 W	2698.70	2.42
8028.00	88.86	179.59	5973.88	2784.42 S	269.31 W	2792.59	0.52
8122.00	89.51	179.41	5975.22	2878.41 S	268.49 W	2886.48	0.72
8216.00	89.01	179.28	5976.43	2972.39 S	267.41 W	2980.36	0.54

8210.00	88.91	178.23	5970.48	3072.88 S	257.41 W	2888.88	0.87
8311.00	90.40	179.13	5976.92	3067.38 S	266.10 W	3075.23	1.47
8405.00	90.52	179.80	5976.16	3161.37 S	265.22 W	3169.12	0.73
8499.00	91.05	179.53	5974.87	3255.36 S	264.67 W	3263.02	0.63
8594.00	91.51	179.43	5972.75	3350.33 S	263.81 W	3357.89	0.50
8688.00	92.10	179.45	5969.79	3444.28 S	262.89 W	3451.74	0.63
8783.00	90.74	179.19	5967.43	3539.24 S	261.77 W	3546.59	1.45
8878.00	89.32	178.27	5967.38	3634.22 S	259.67 W	3641.42	1.78
8972.00	89.75	178.47	5968.14	3728.17 S	257.00 W	3735.21	0.51
9067.00	90.00	177.94	5968.35	3823.13 S	254.02 W	3829.98	0.62
9162.00	90.71	177.61	5967.76	3918.05 S	250.33 W	3924.70	0.82
9257.00	90.96	177.67	5966.38	4012.96 S	246.42 W	4019.40	0.27
9351.00	91.39	177.94	5964.46	4106.87 S	242.82 W	4113.11	0.54
9445.00	92.09	177.53	5961.61	4200.76 S	239.10 W	4206.78	0.87
9540.00	89.75	177.07	5960.08	4295.63 S	234.62 W	4301.42	2.51
9634.00	88.58	176.66	5961.44	4389.48 S	229.48 W	4395.01	1.32
9729.00	88.03	176.04	5964.25	4484.24 S	223.44 W	4489.48	0.87
9824.00	87.31	175.90	5968.11	4578.93 S	216.77 W	4583.85	0.77
9918.00	88.92	175.91	5971.20	4672.64 S	210.05 W	4677.23	1.71
10012.00	89.54	175.70	5972.46	4766.37 S	203.17 W	4770.65	0.69
10107.00	90.68	175.42	5972.28	4861.09 S	195.82 W	4865.01	1.23
10190.00	91.11	175.56	5970.99	4943.82 S	189.30 W	4947.44	0.55
10258.00	91.11	175.56	5969.67	5011.60 S	184.04 W	5014.98	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 182.16 DEGREES (GRID)
A TOTAL CORRECTION OF 7.01 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 10258.00 FEET
IS 5014.98 FEET ALONG 182.10 DEGREES (GRID)**

Survey at 250' and 500' were extrapolated between surface and the first survey

Last survey is a projection to TD