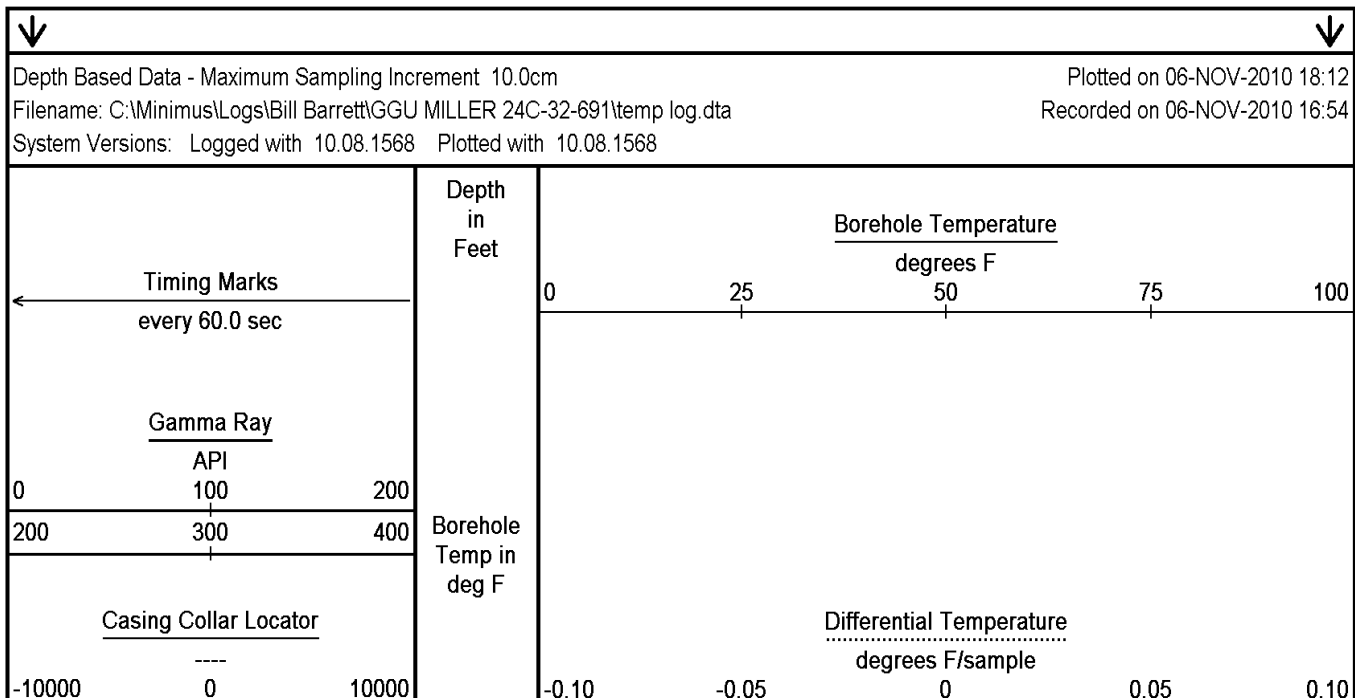


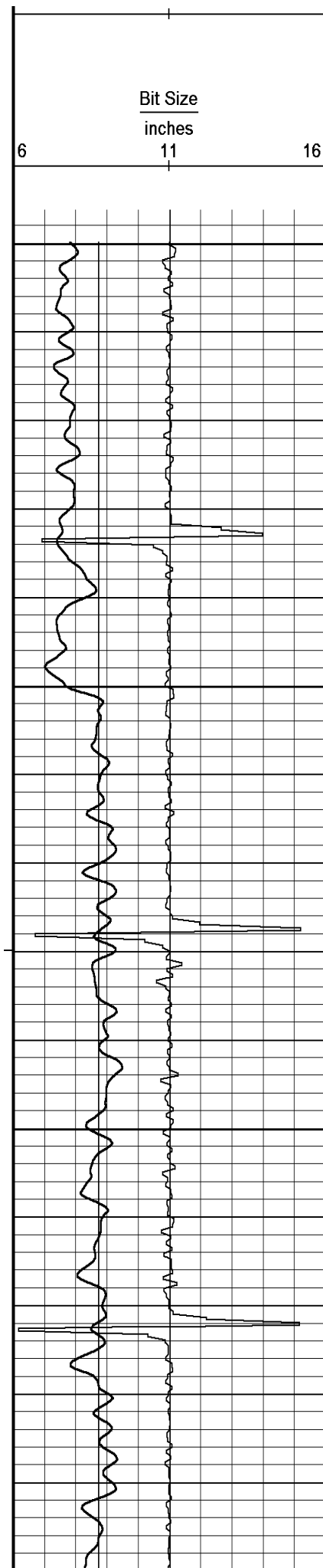


TEMPERATURE CEMENT LOG

COMPANY	BILL BARRETT CORPORATION		
WELL	GGU MILLER 24C-32-691		
FIELD	MAMM CREEK		
PROVINCE/COUNTY	GARFIELD		
COUNTRY/STATE	U.S.A. / COLORADO		
LOCATION	SHL: 1220' FSL & 2284' FWL BHL: 857' FNL & 1990' FWL		
SEC	TWP	RGE	Other Services
32	6S	91W	
API Number	05-045-19429		
Permit Number			
Permanent Datum G.L., Elevation 6120 feet			Elevations: KB 6142.00
Log Measured From K.B. @ 22 FEET above Permanent Datum			DF 6120.00
Drilling Measured From K.B.			GL 6120.00
Date	05-NOV-2010		
Run Number	ONE		
Depth Driller	7128.00		
Depth Logger			
First Reading	100.00		
Last Reading	7110.00		
Casing Driller			
Casing Logger			
Bit Size	7.875		
Hole Fluid Type	LSND		
Density / Viscosity	8.60 lb/USg		
PH / Fluid Loss			
Sample Source	FRESH WATER		
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source Rmf / Rmc			
Rm @ BHT			
Time Since Circulation			
Max Recorded Temp			
Equipment Name	COMPACT		
Equipment / Base	13038 GD JCT		
Recorded By	SLACKEY		
Witnessed By	C.CROW		

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.





Replay
Scale
1:200

50

83°

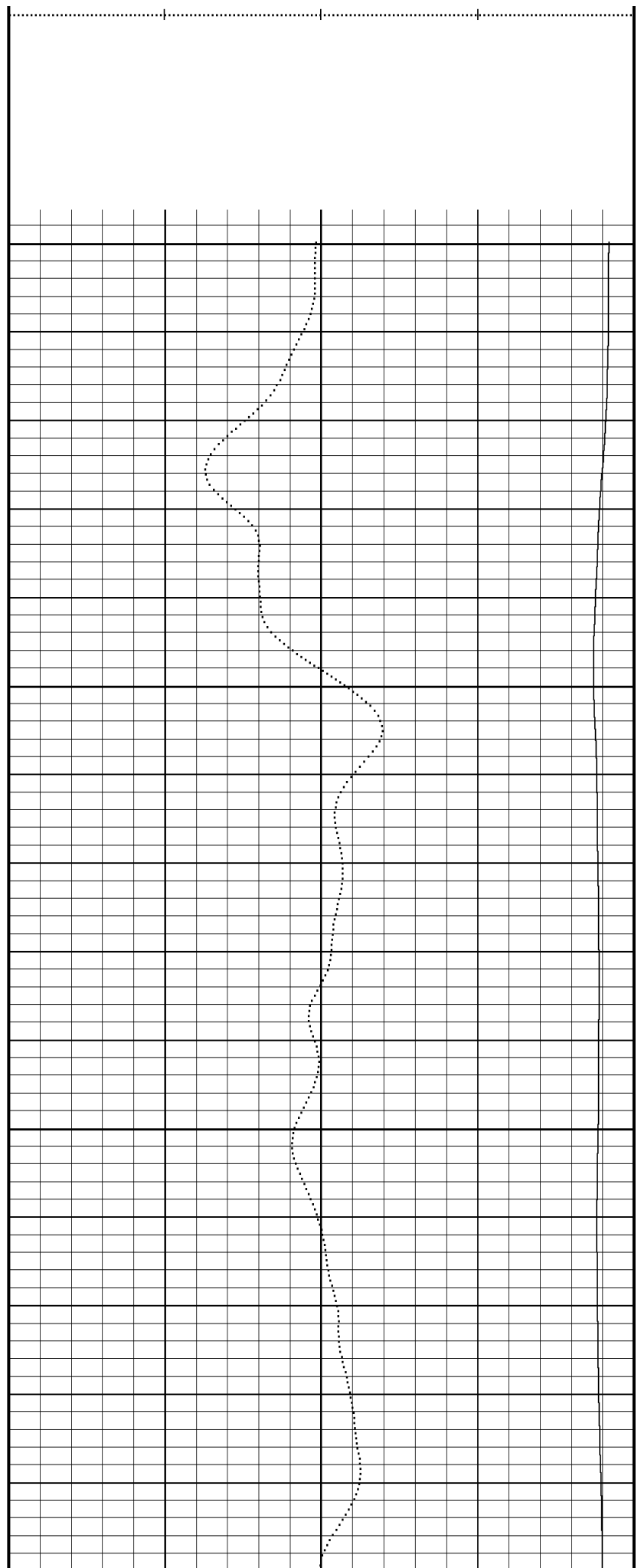
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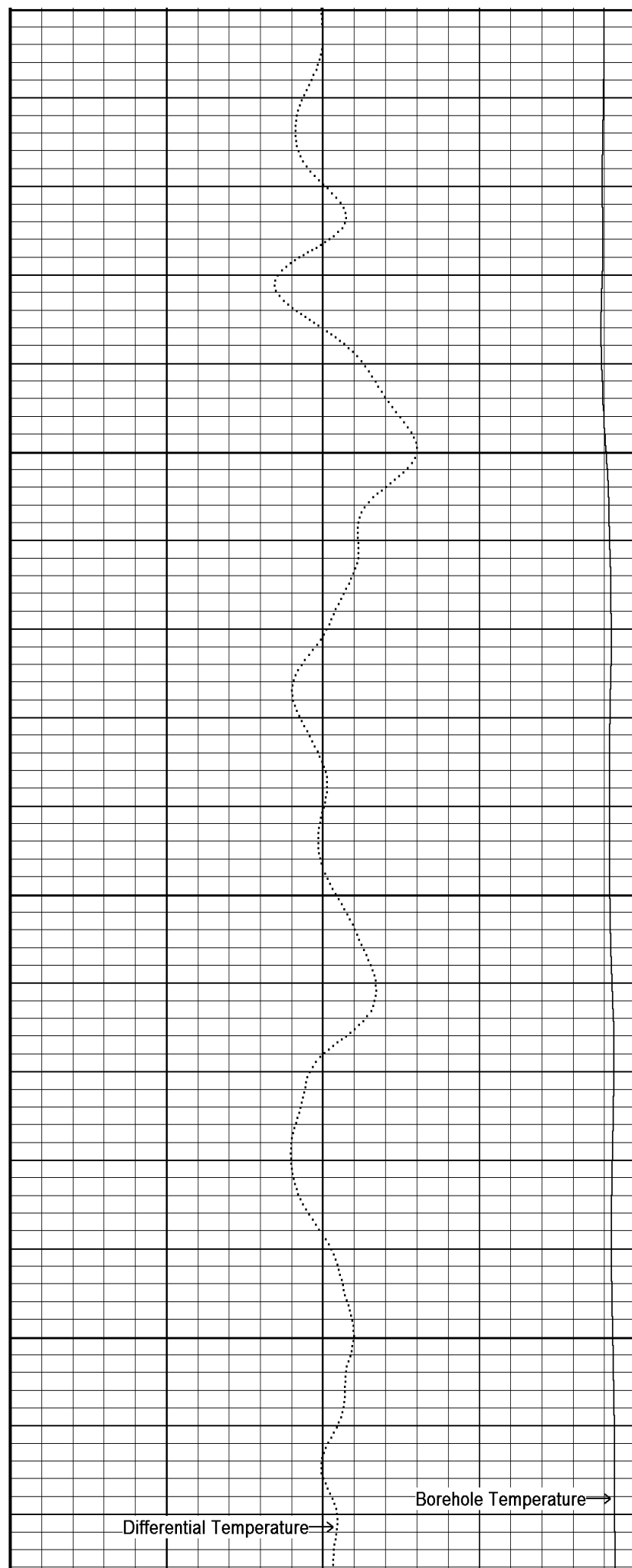
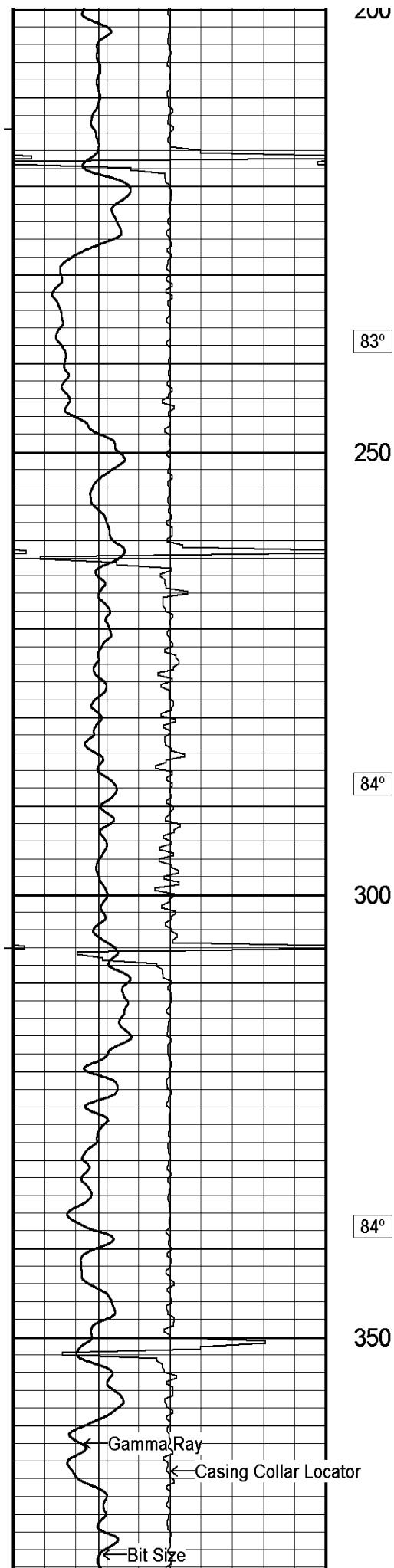
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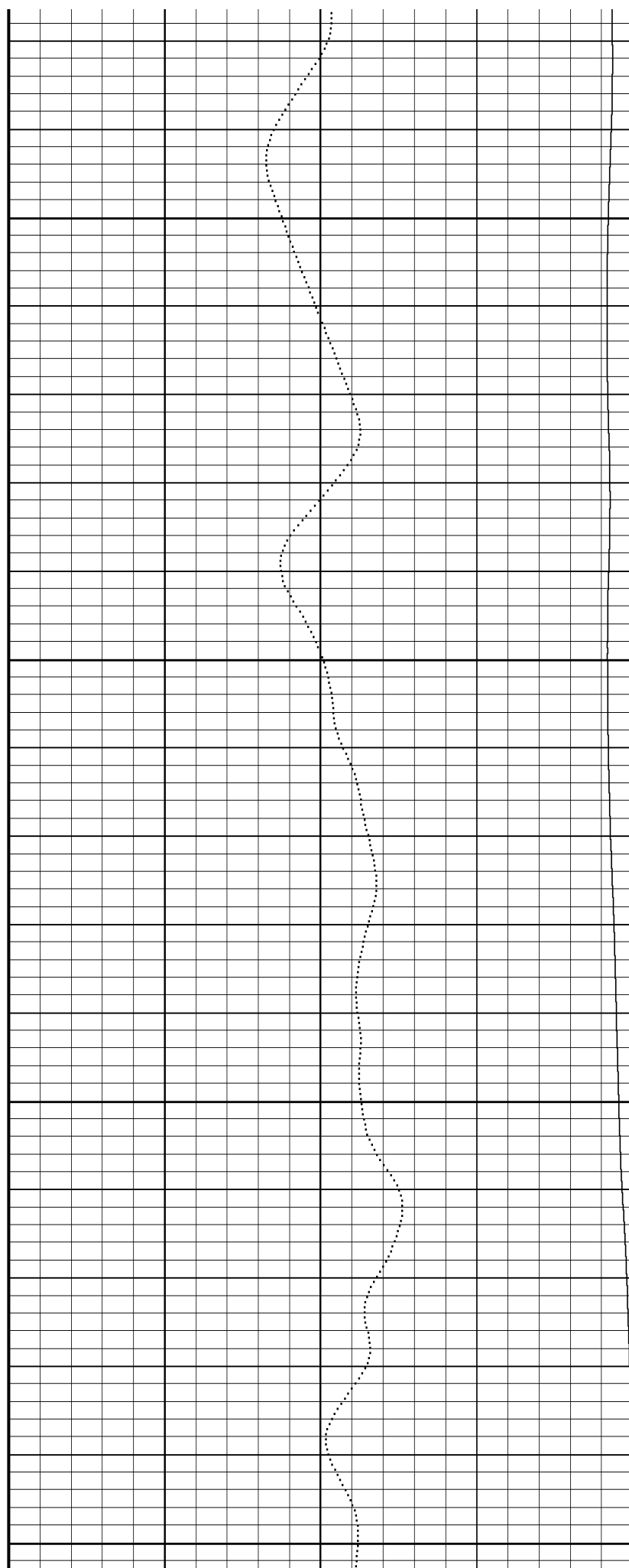
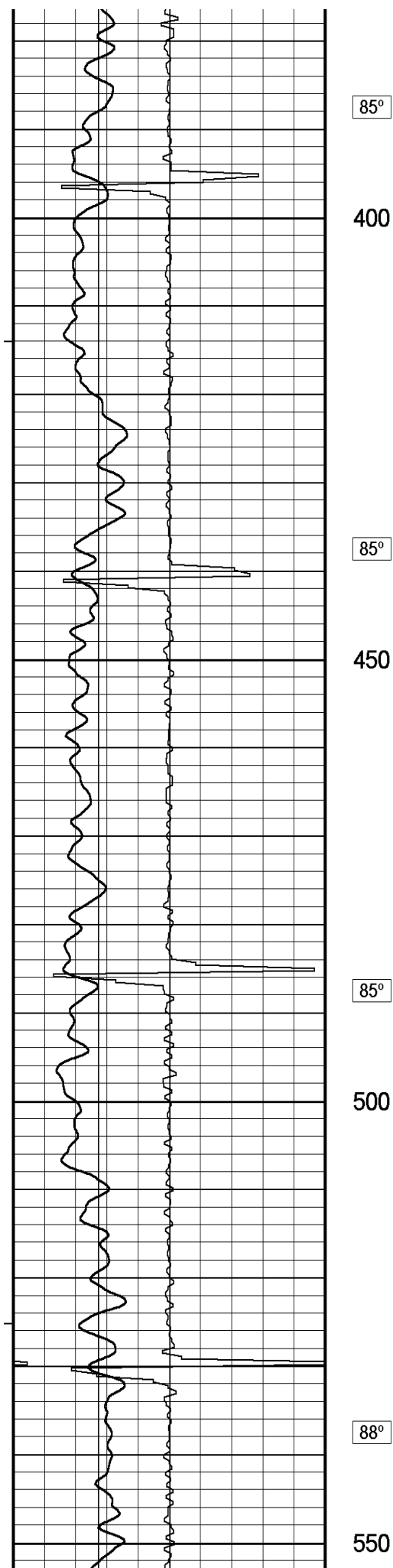
150

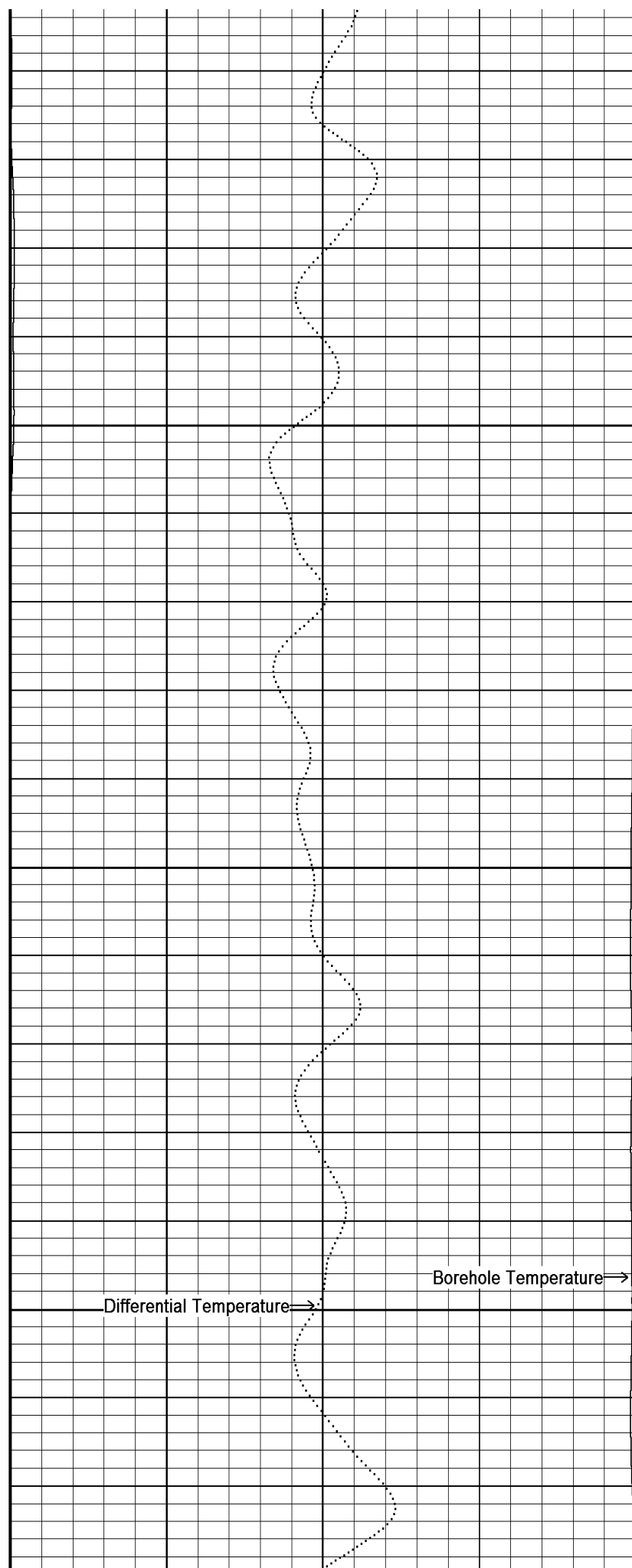
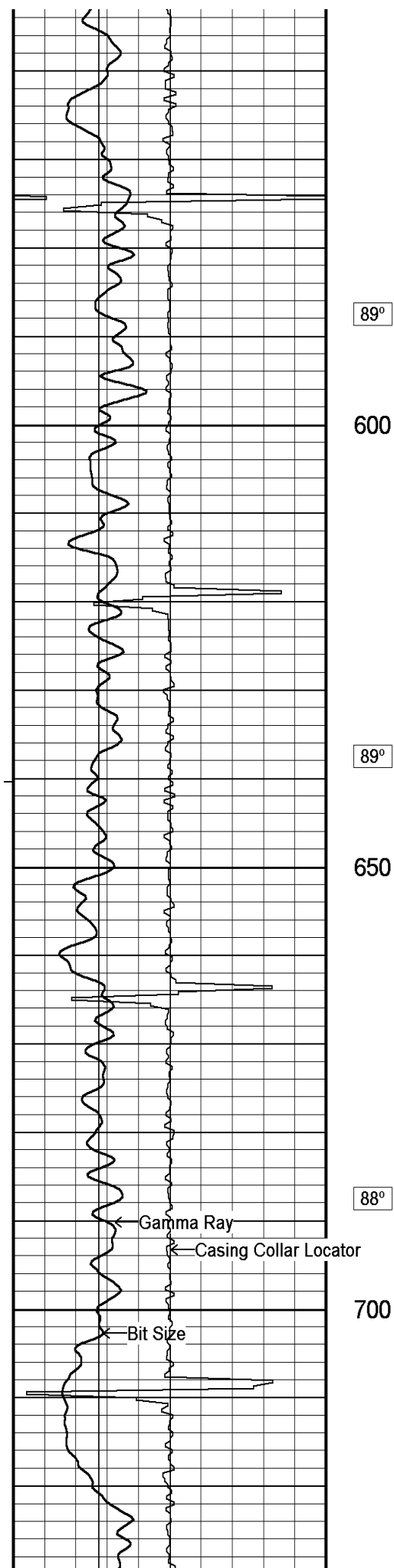
83°

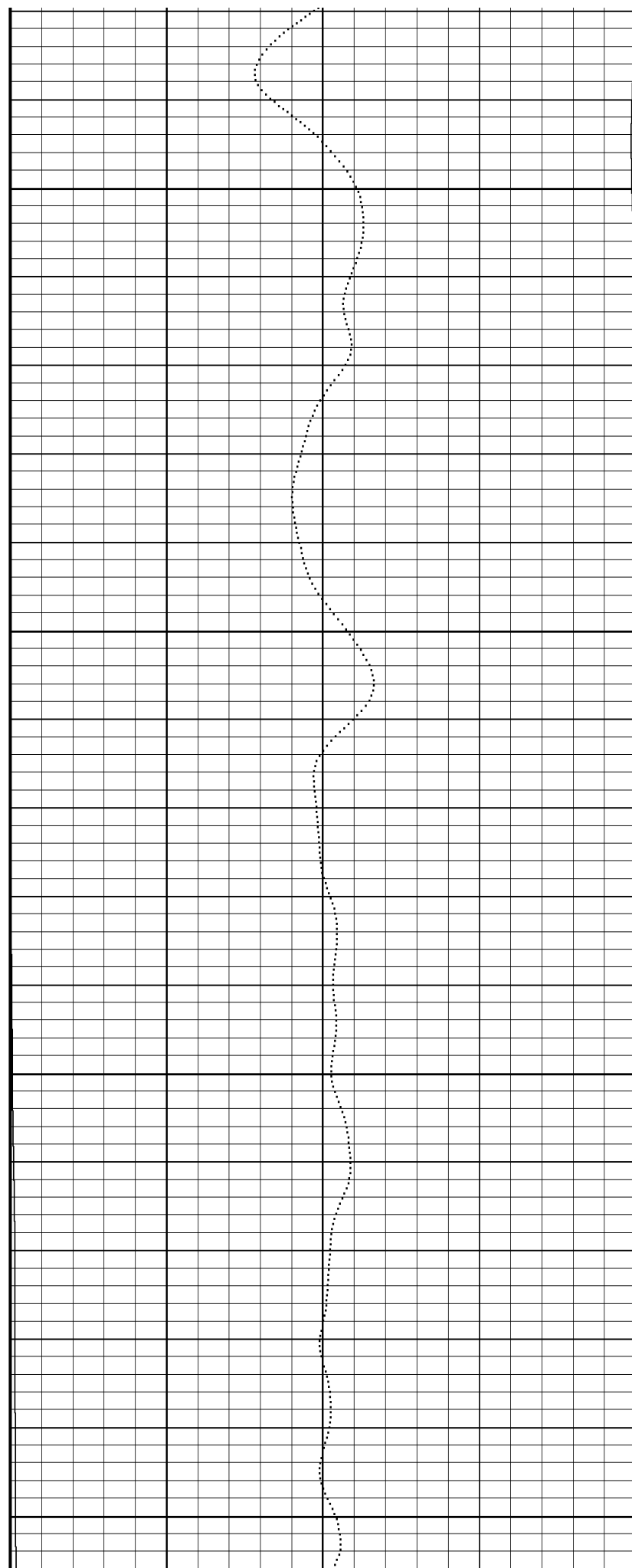
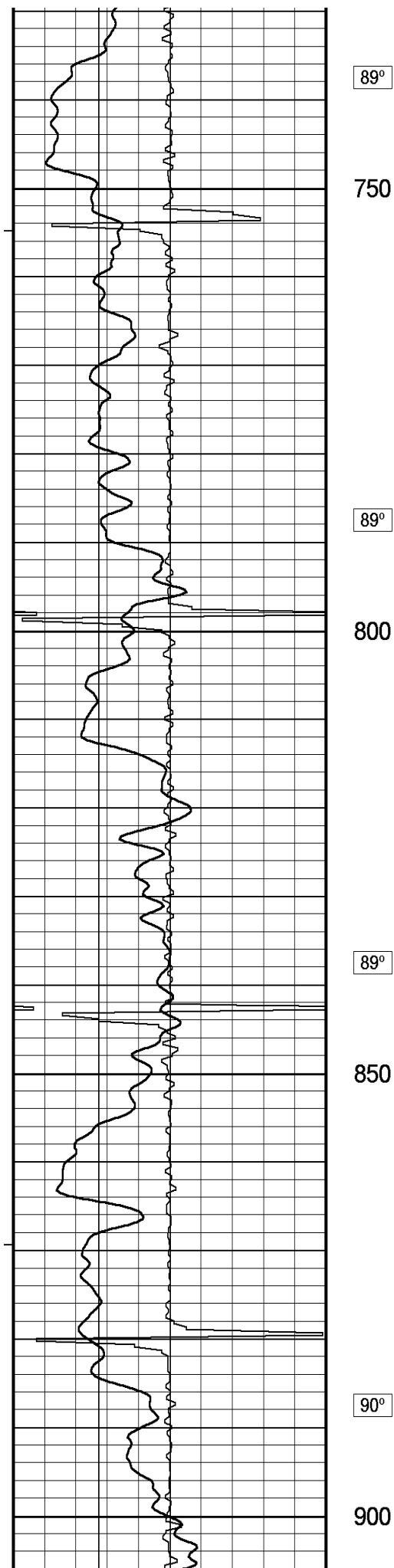
200

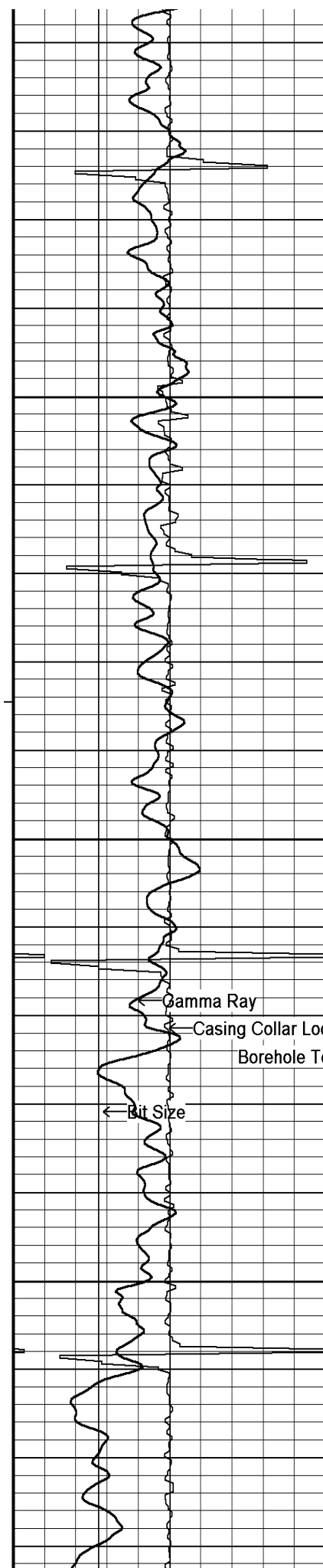












90°

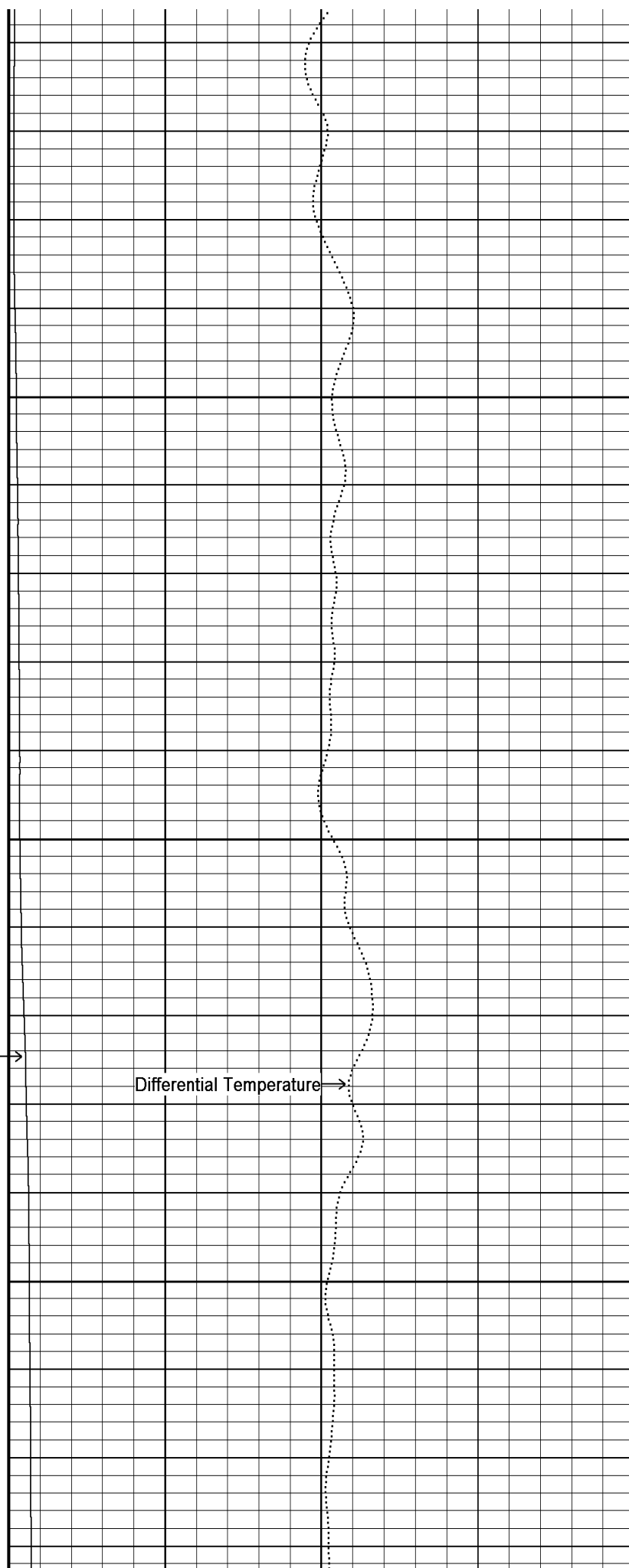
950

91°

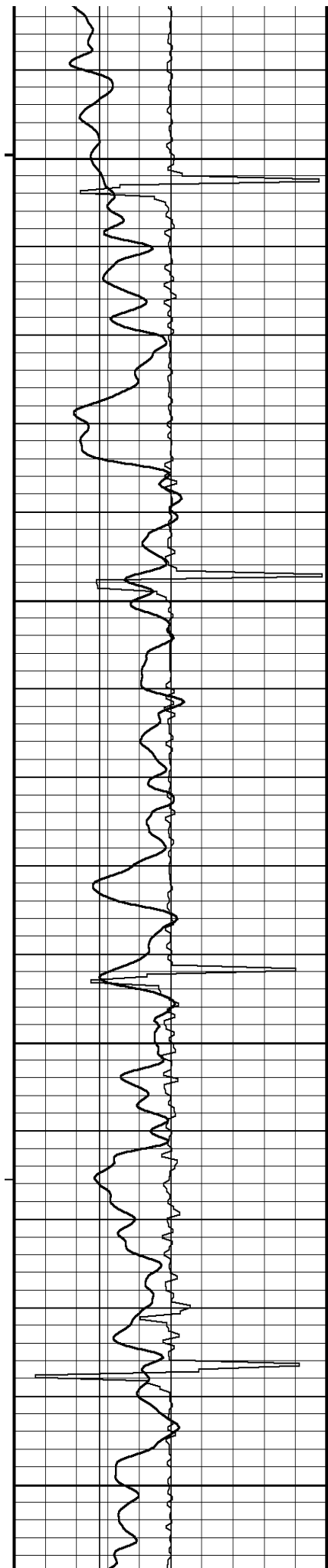
1000

92°

1050



Differential Temperature



93°

1100

94°

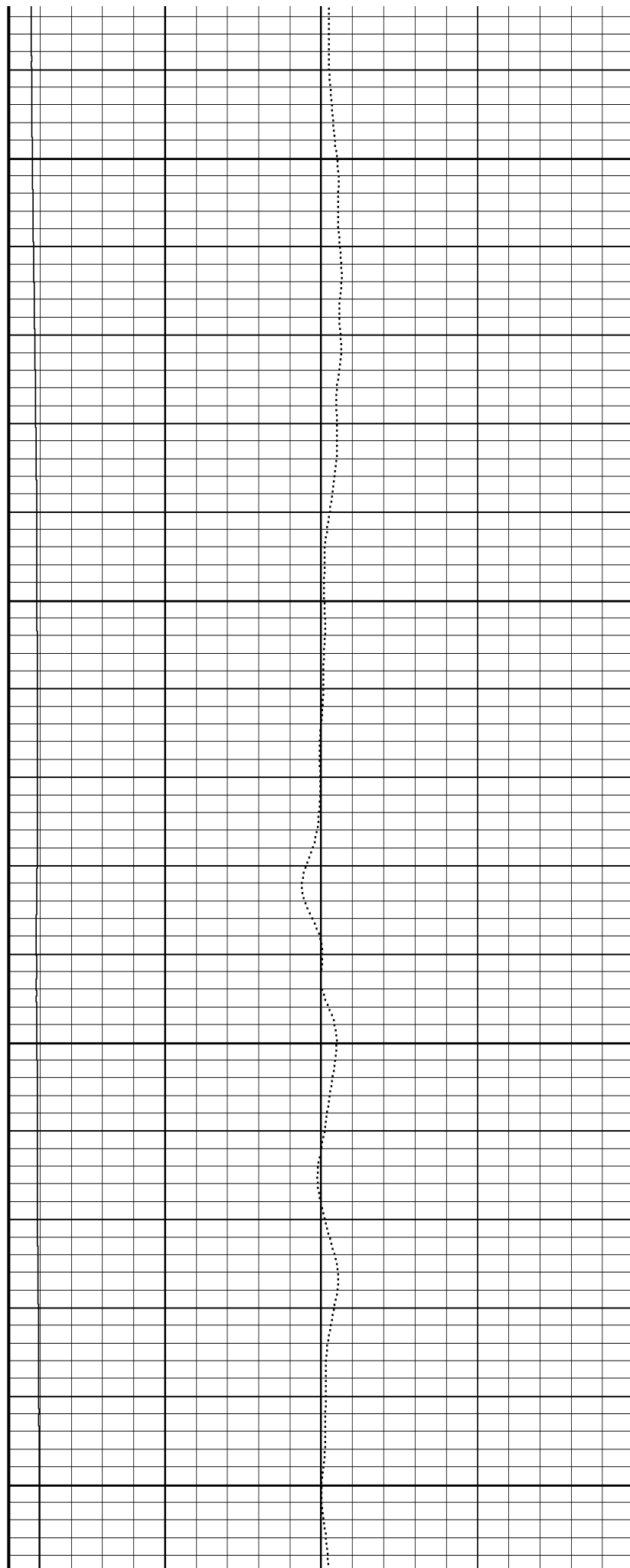
1150

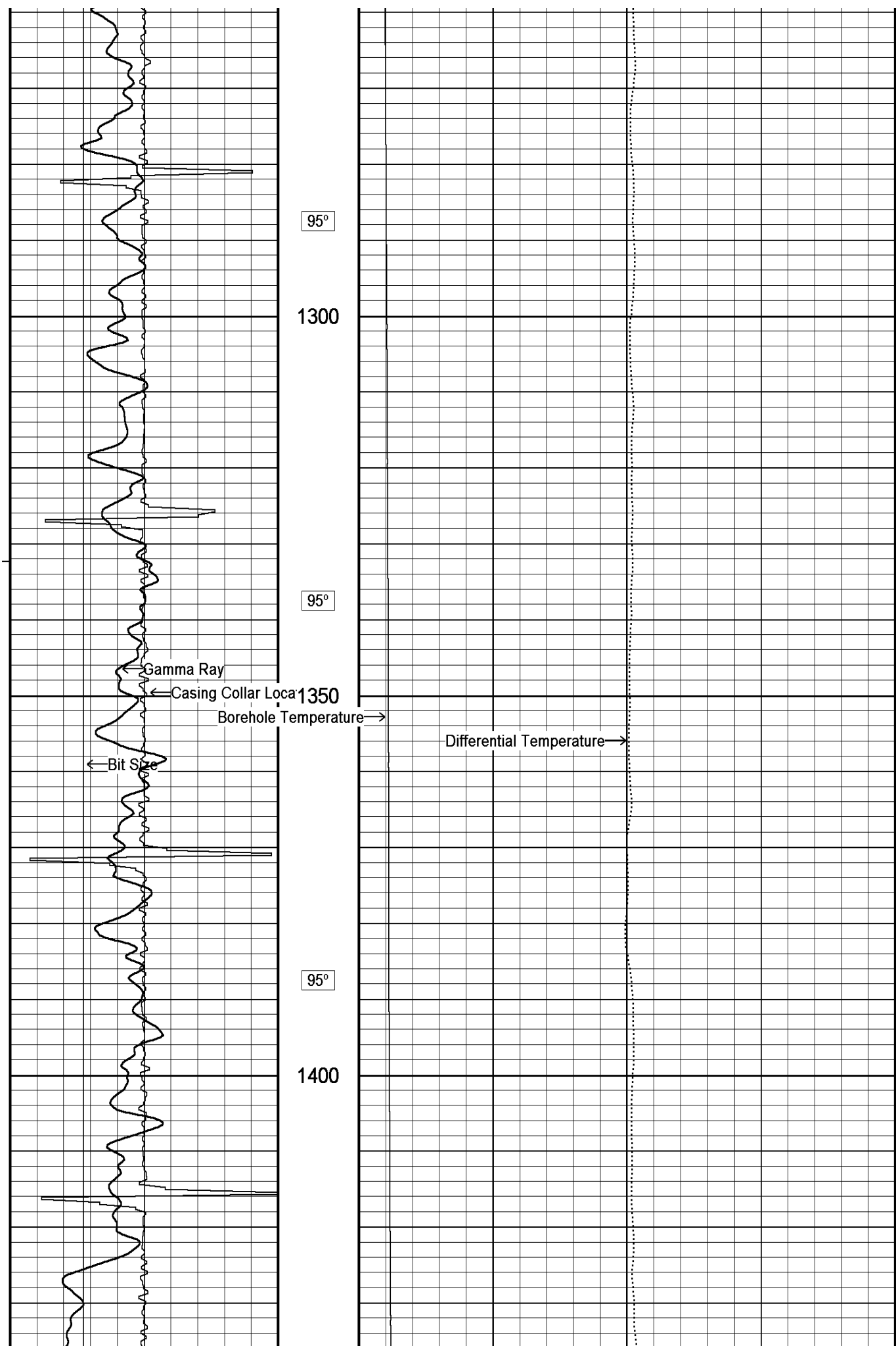
94°

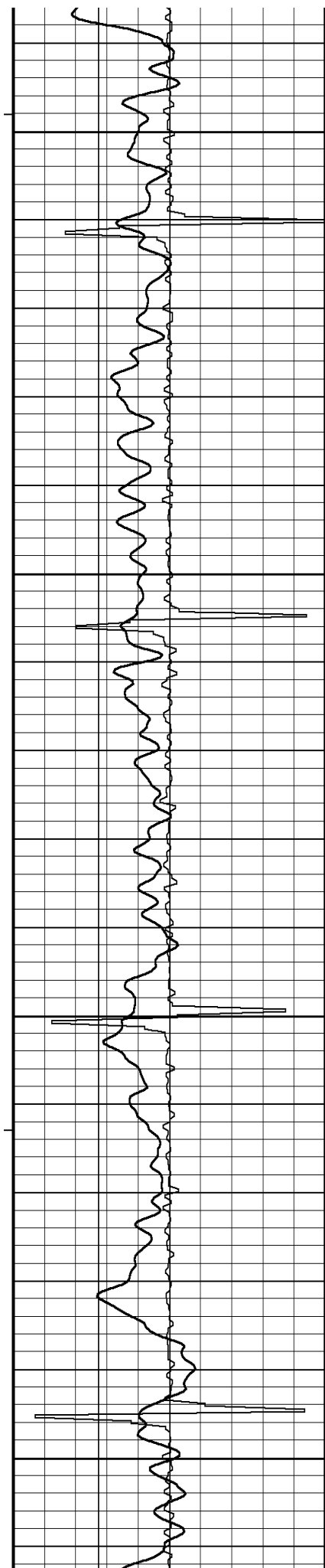
1200

94°

1250







96°

1450

96°

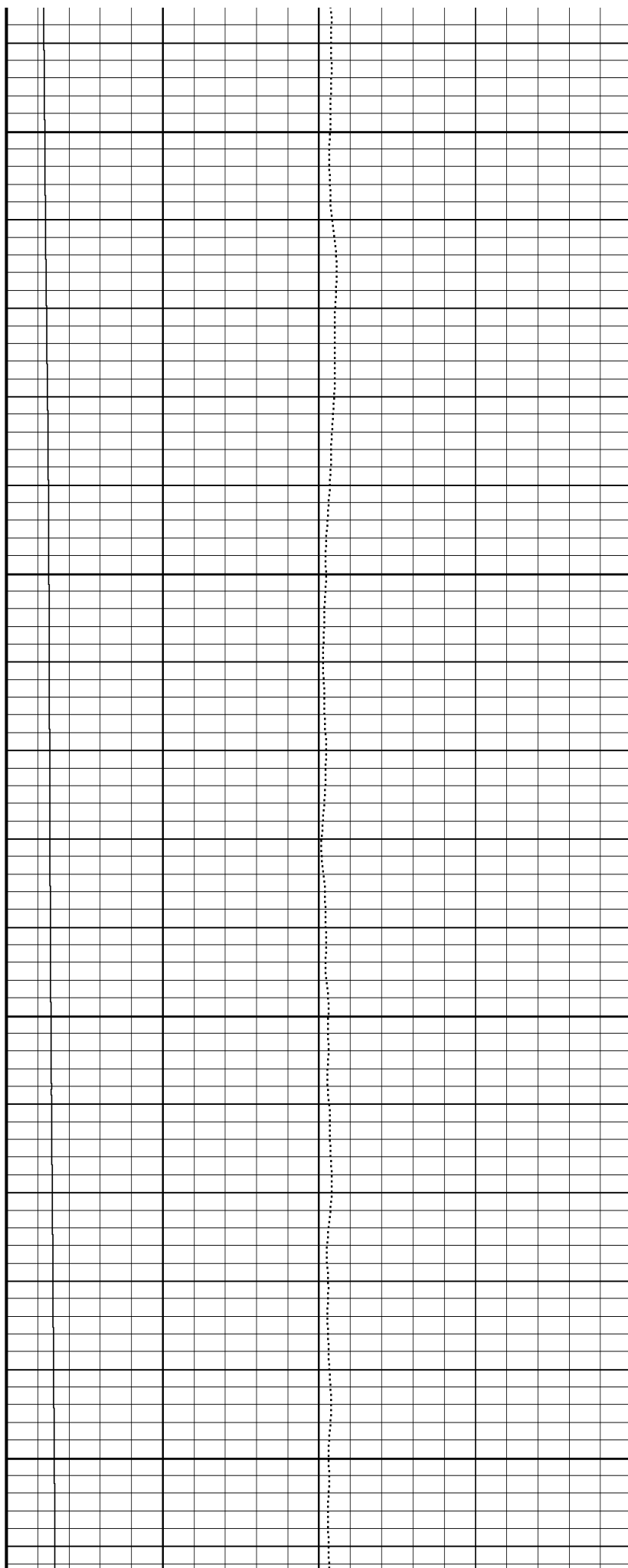
1500

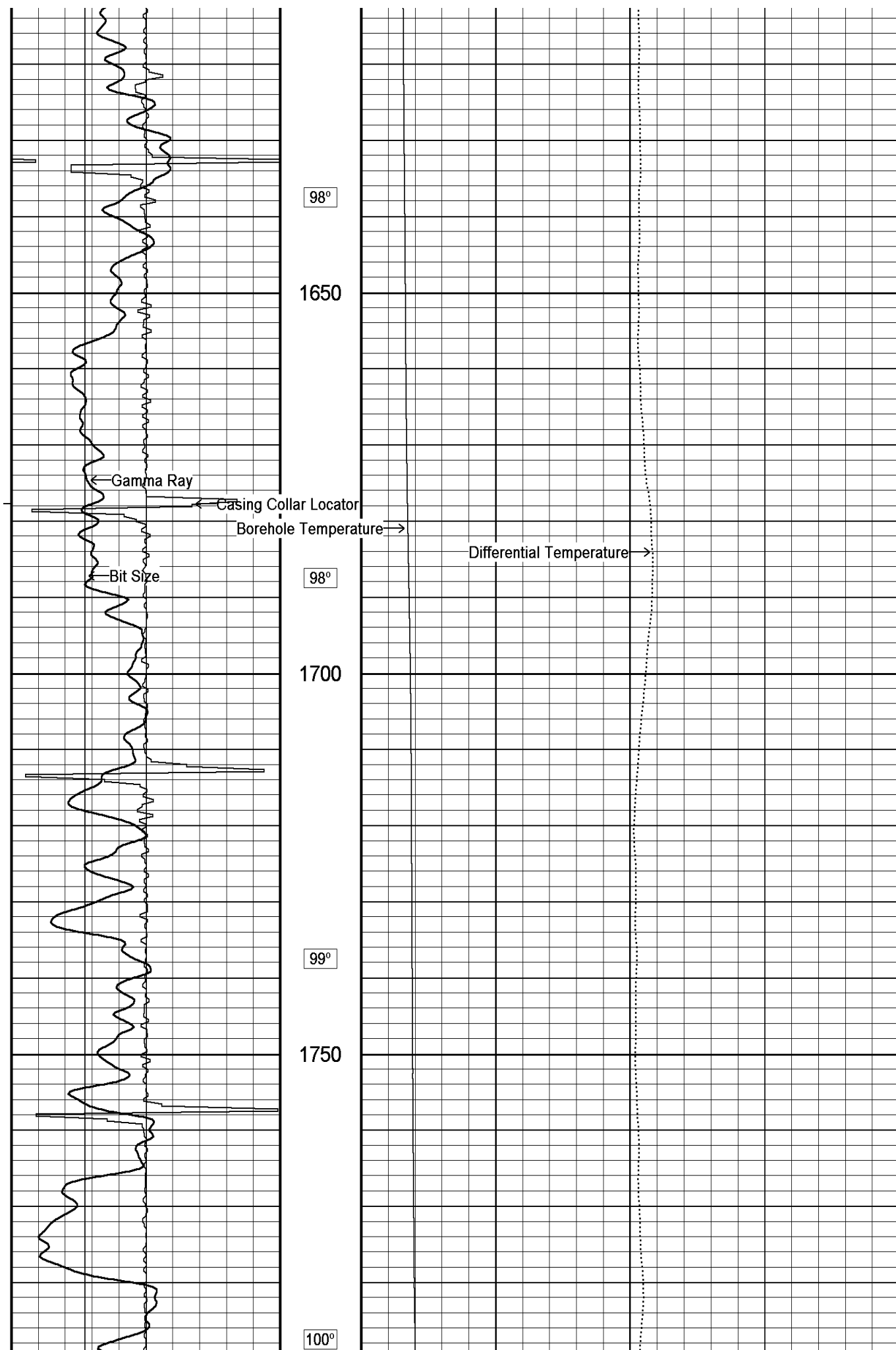
97°

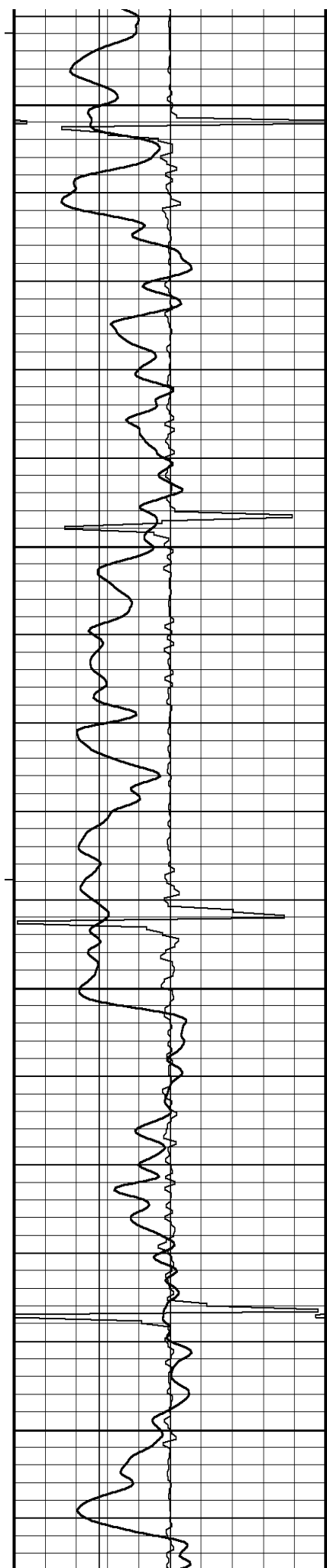
1550

97°

1600







1800

100°

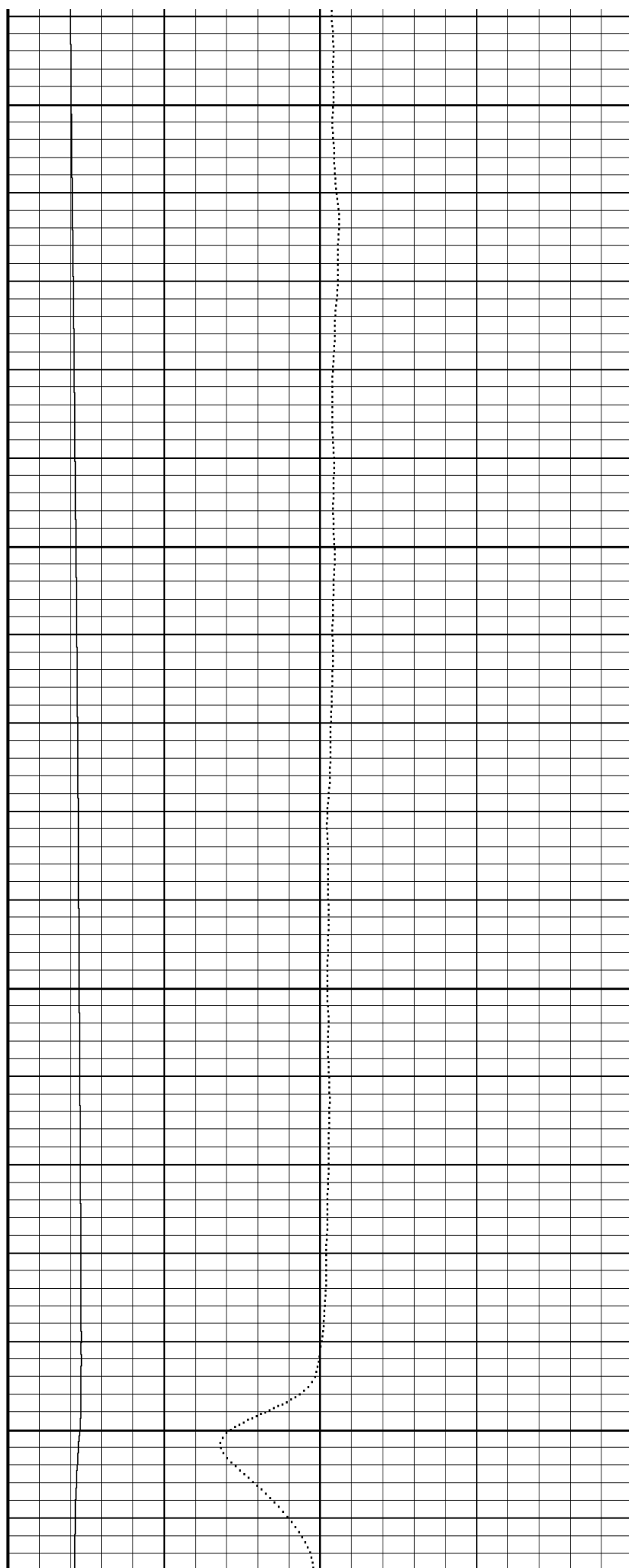
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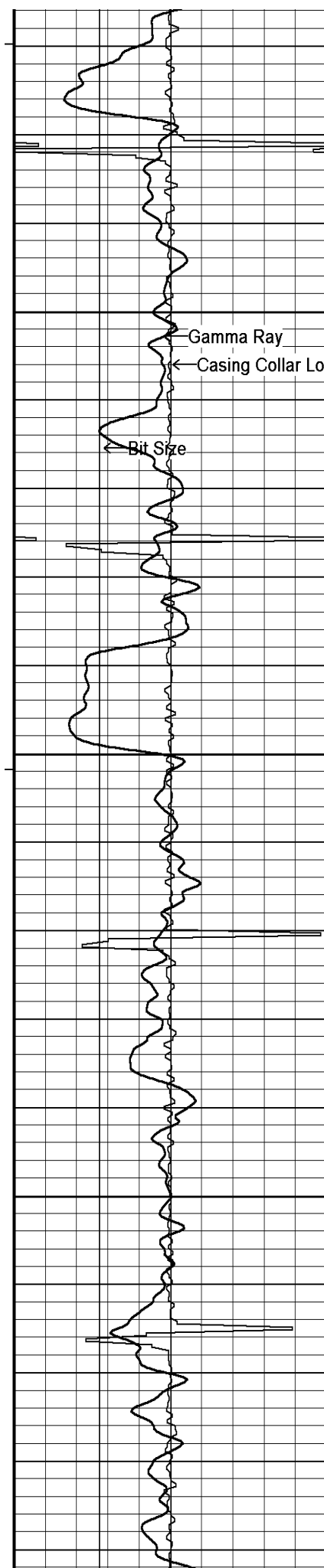
101°

1900

102°

1950





101°

2000

Borehole Temperature →

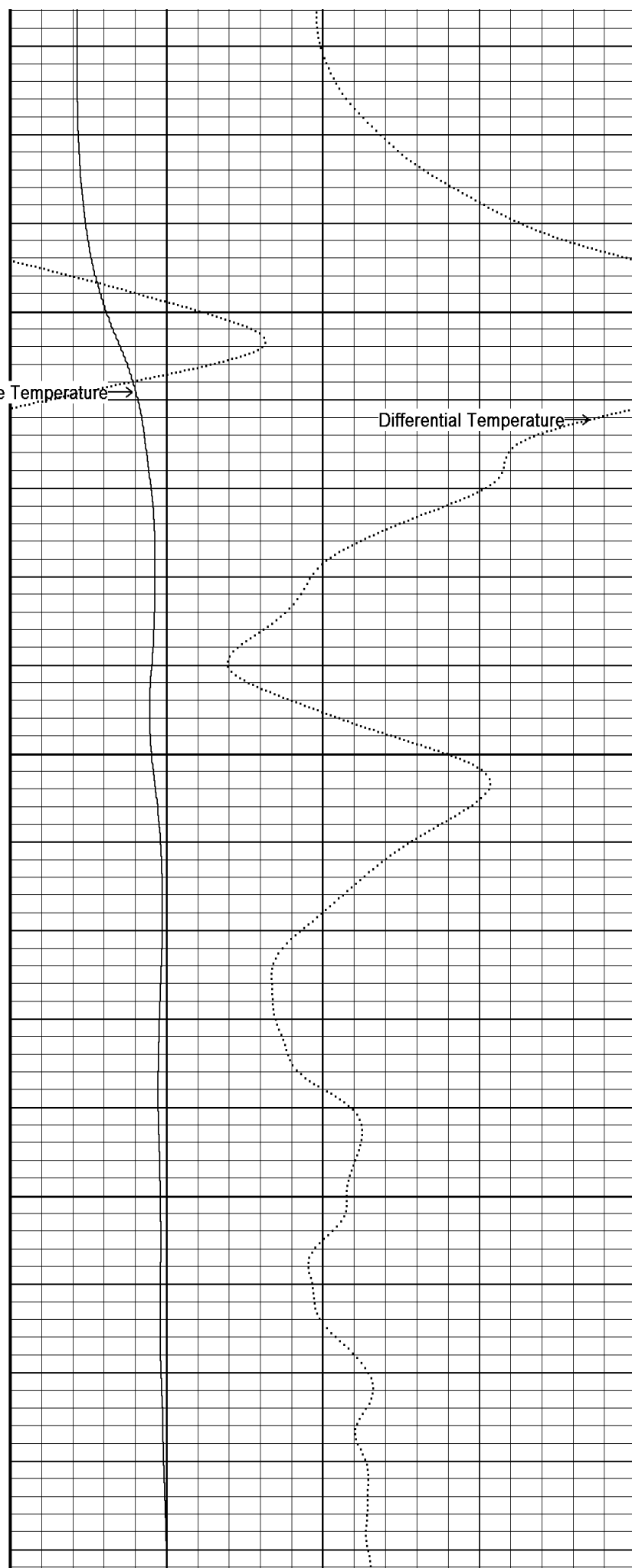
111°

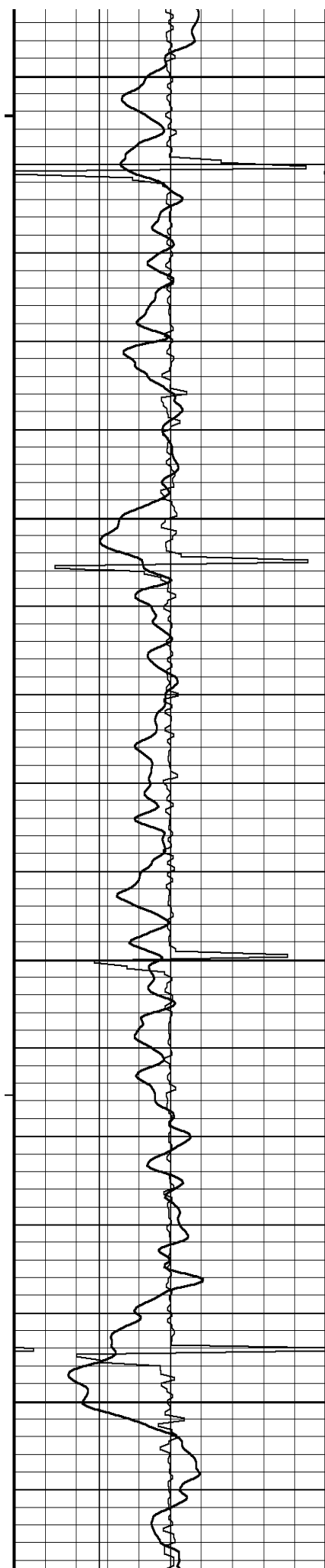
2050

114°

2100

115°





2150

114°

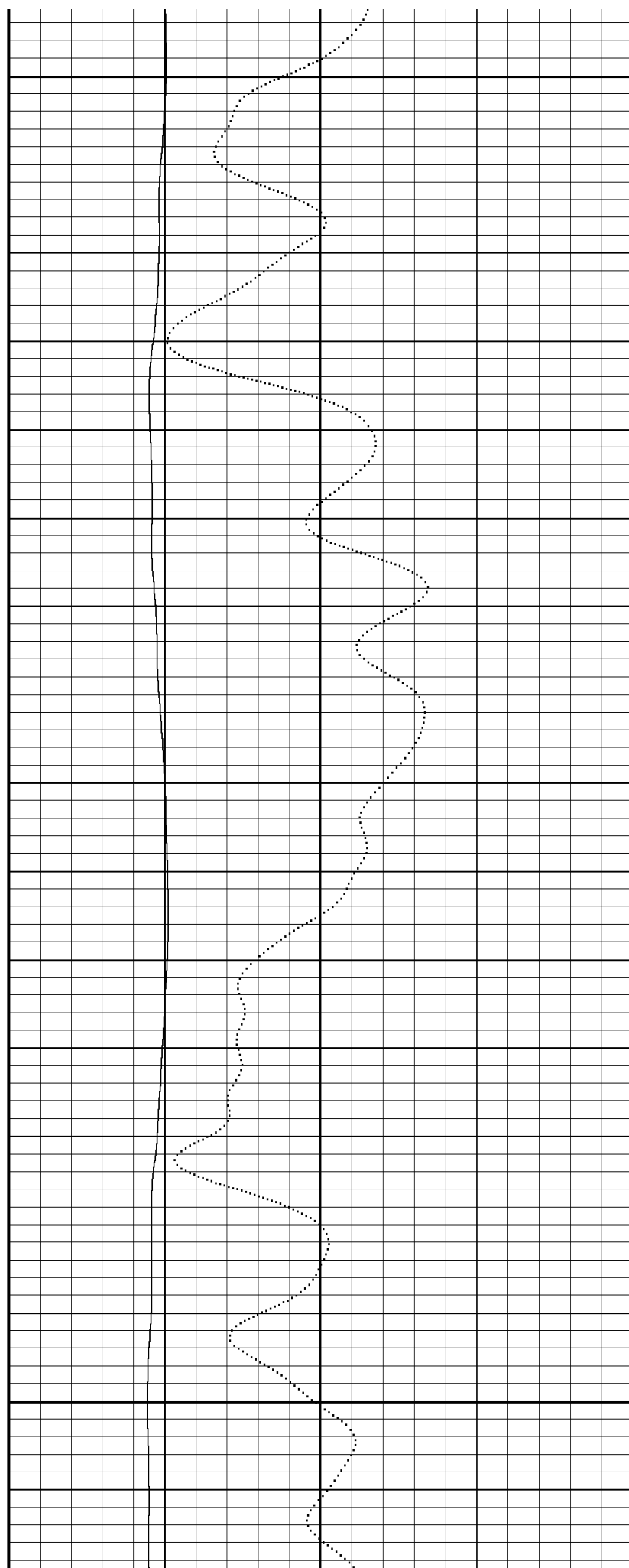
2200

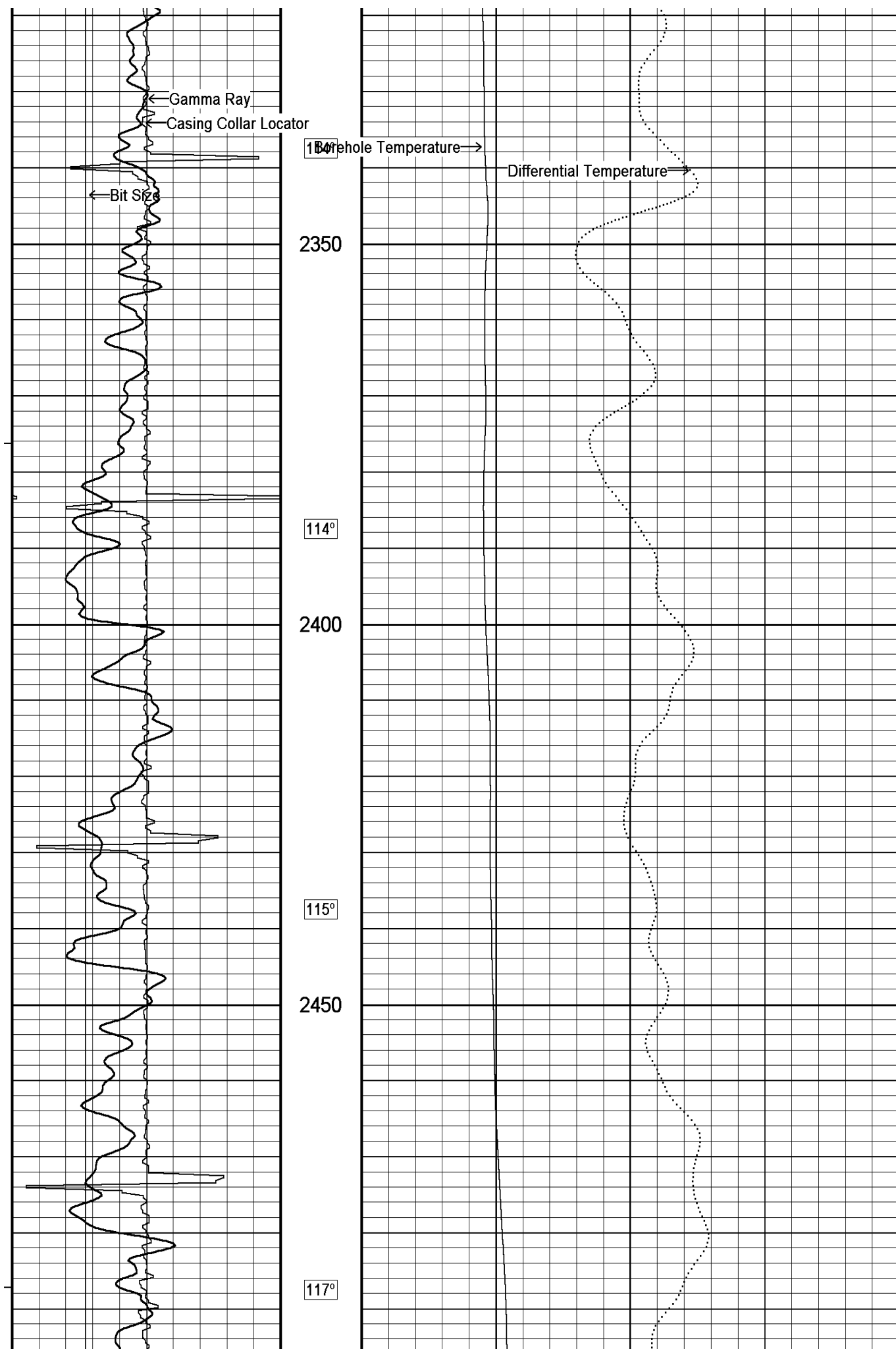
115°

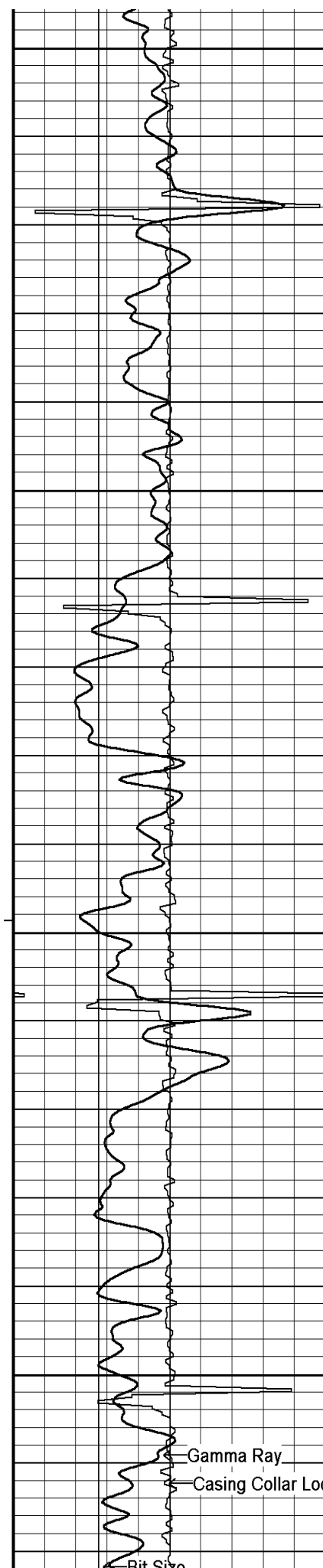
2250

114°

2300







2500

117°

2550

116°

2600

117°

2650

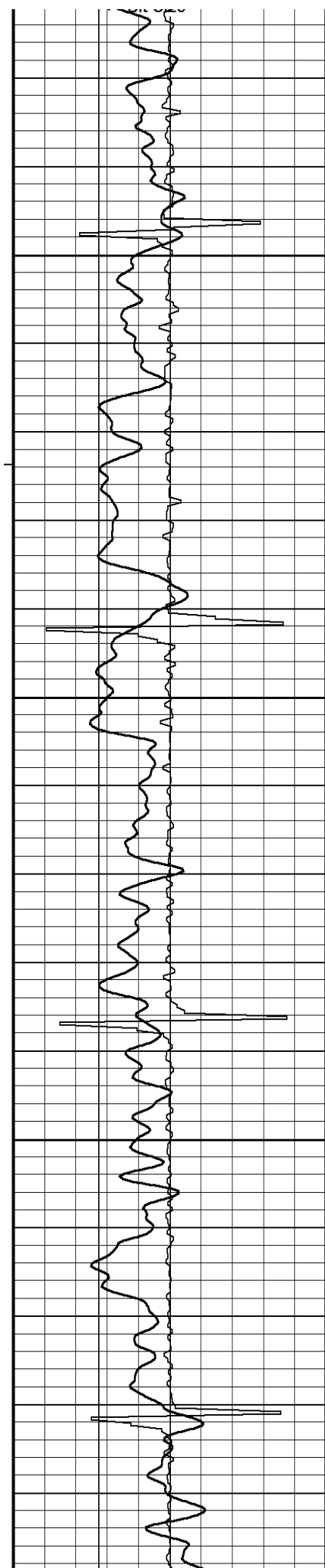
Gamma Ray

Casing Collar Locator

Bit Size

Borehole Temperature →

Differential Temperature →



117°

2700

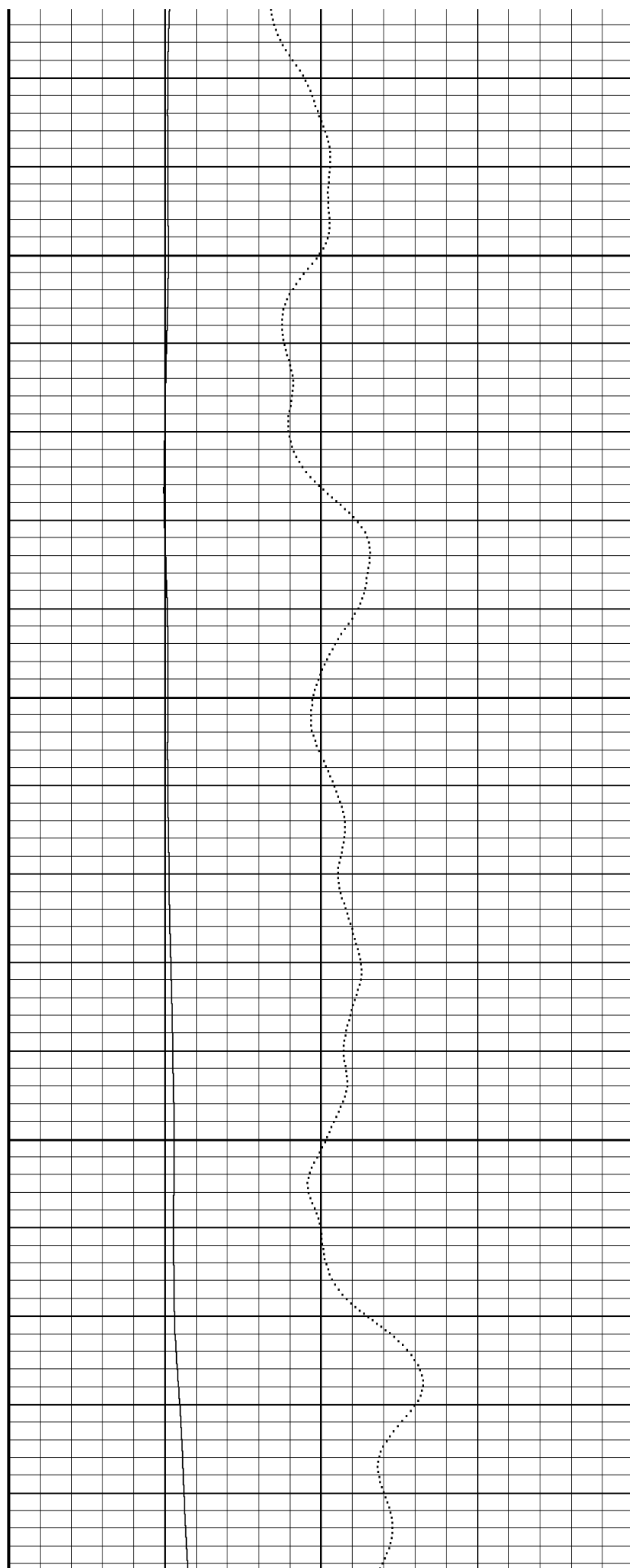
116°

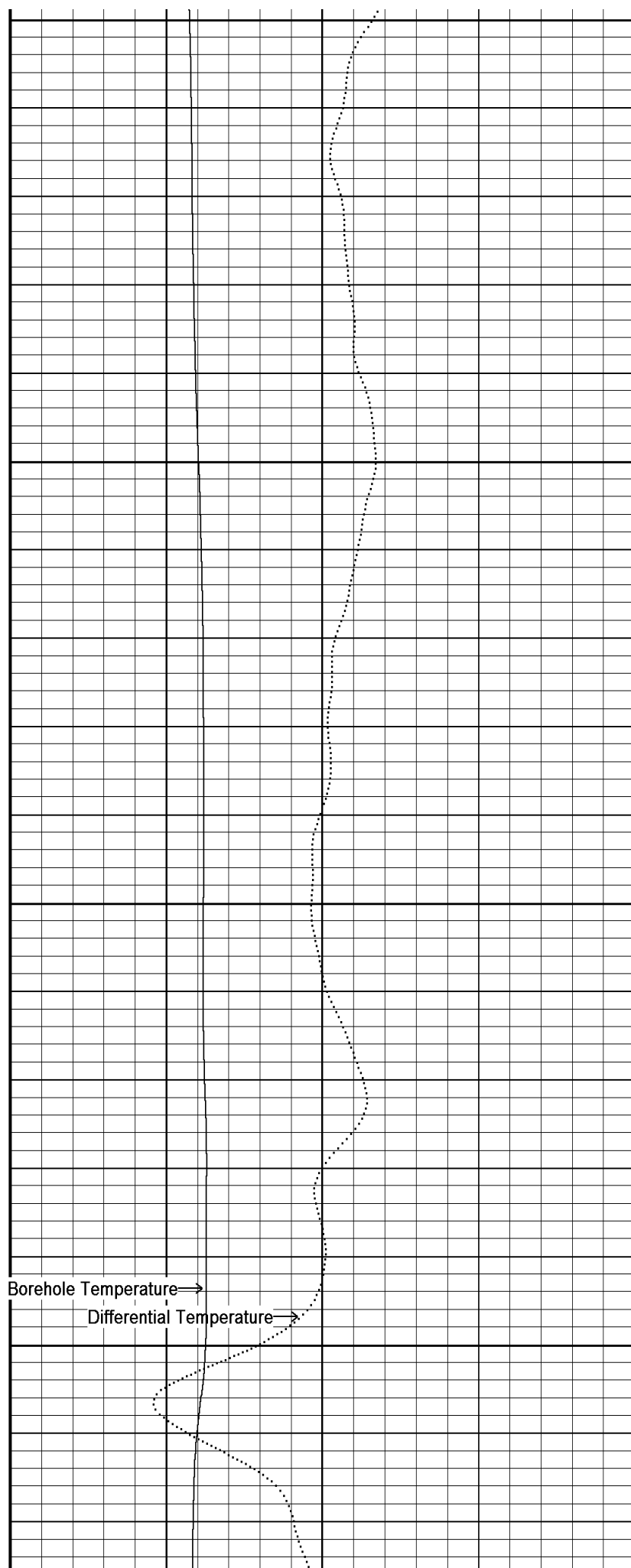
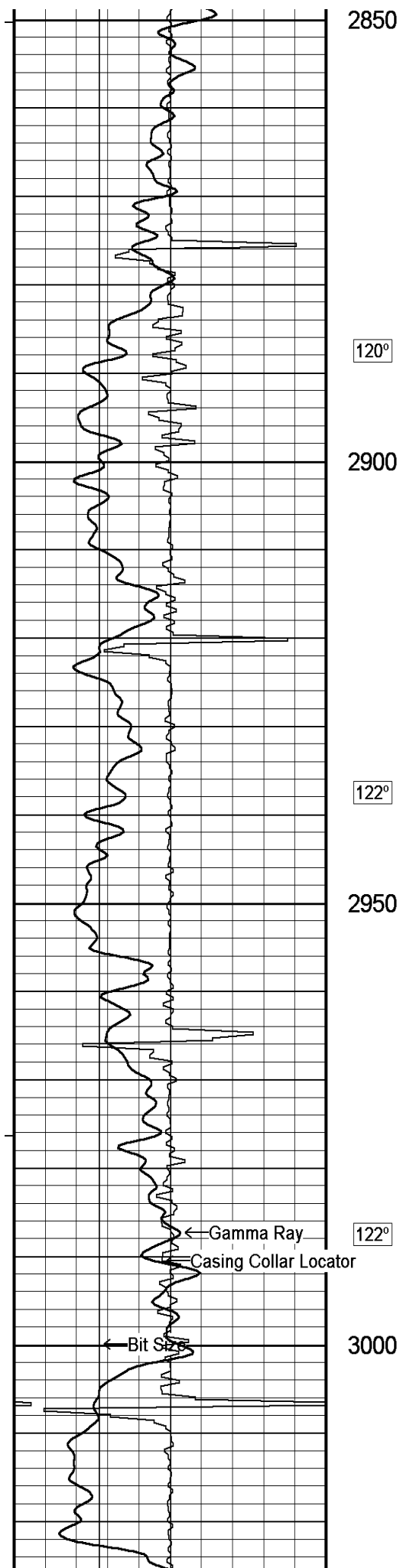
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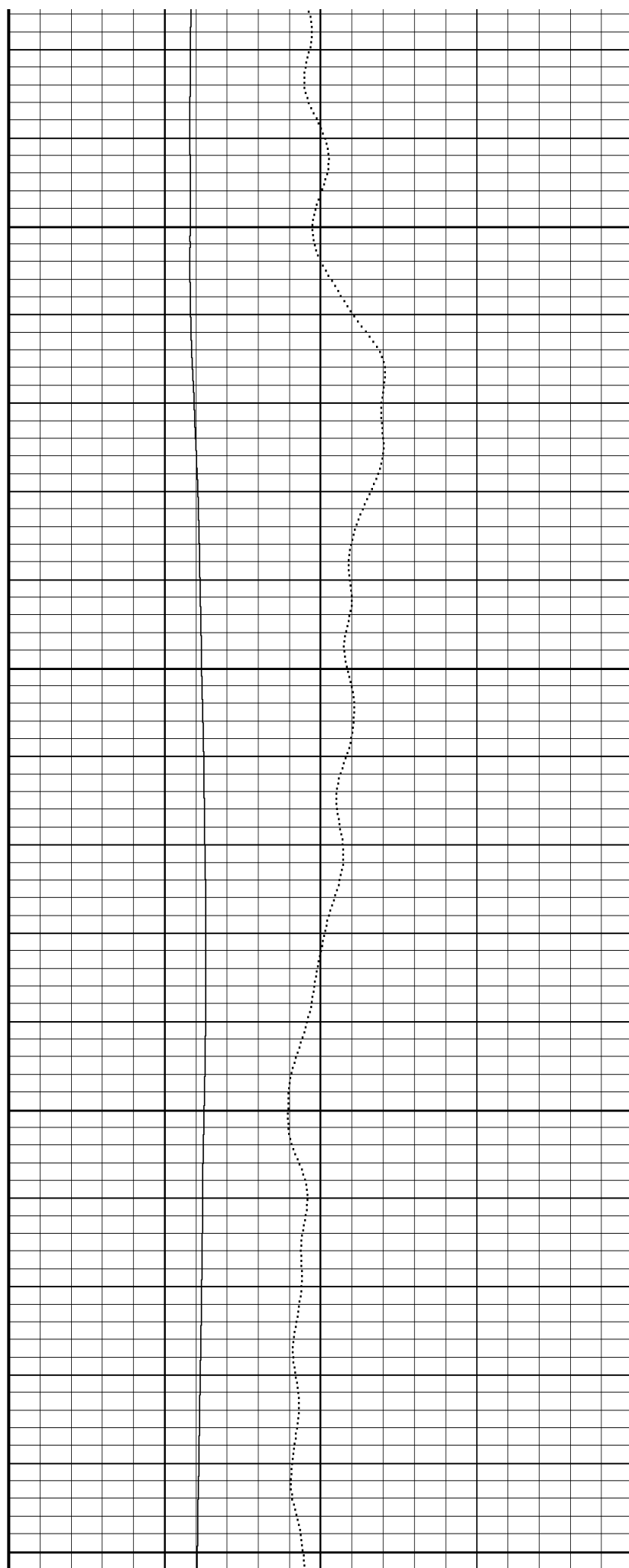
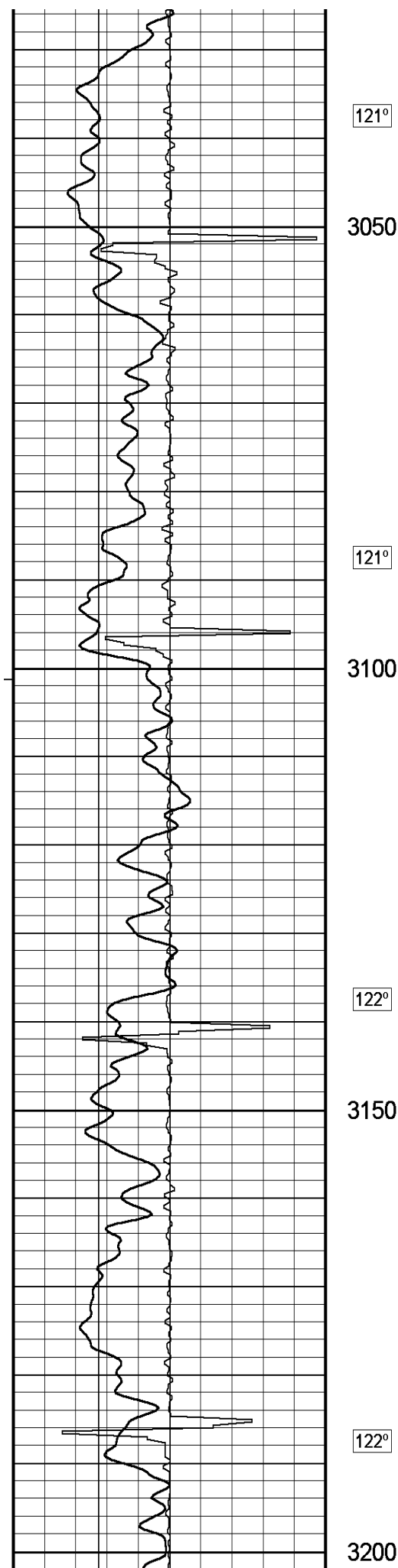
117°

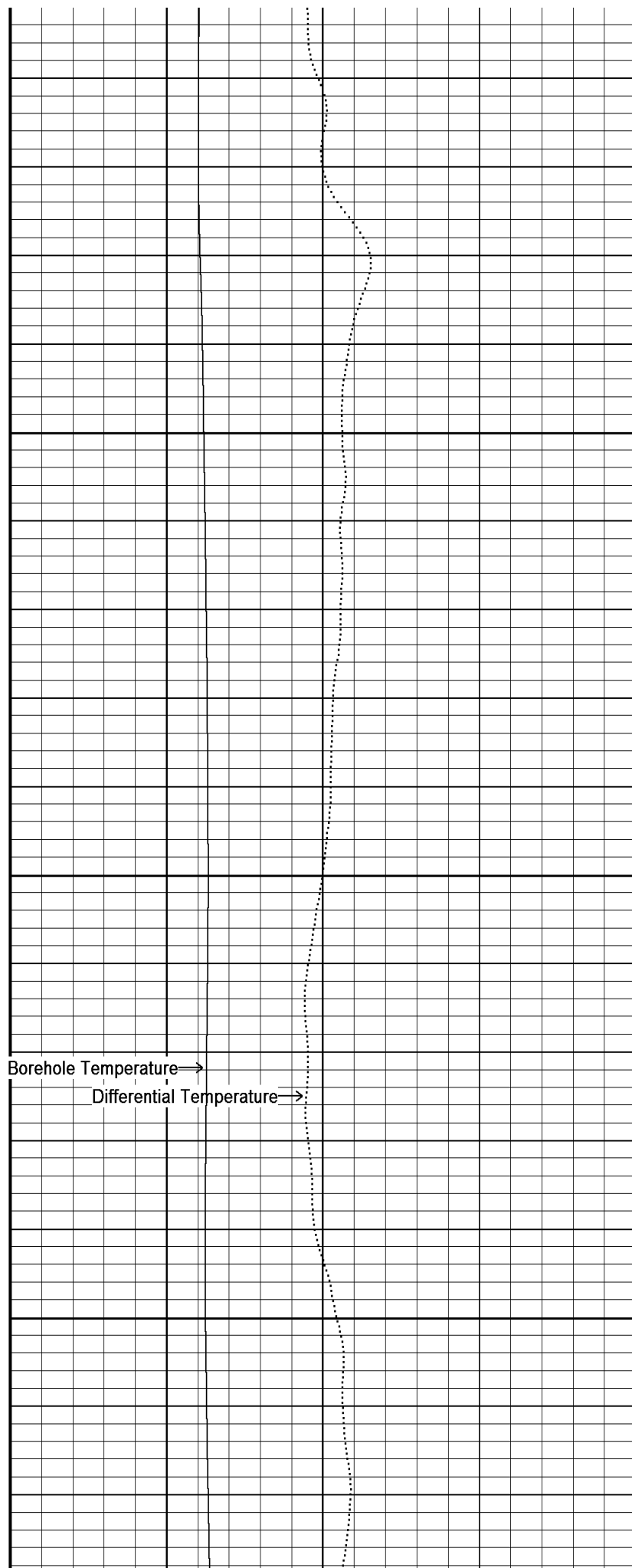
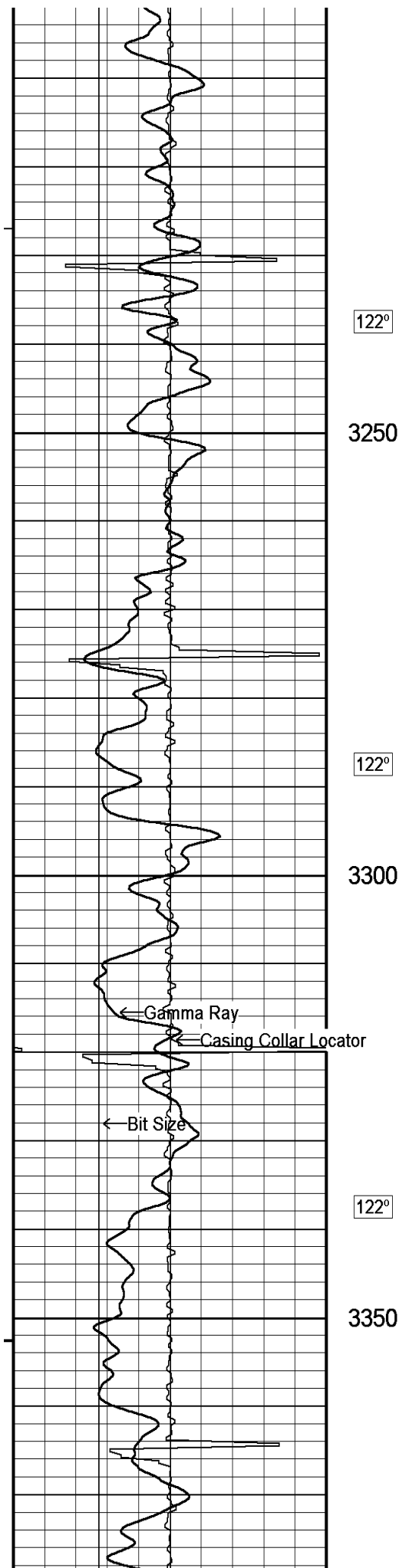
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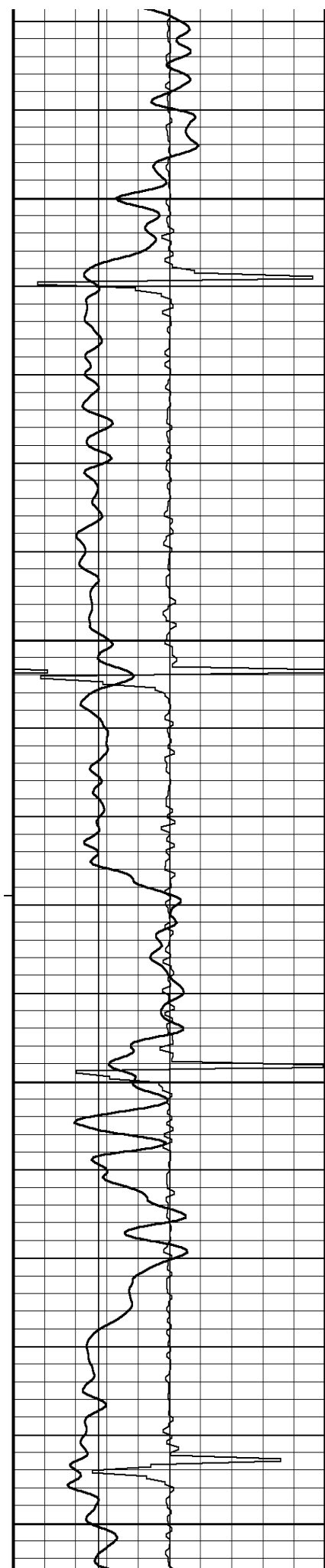
118°











123°

3400

124°

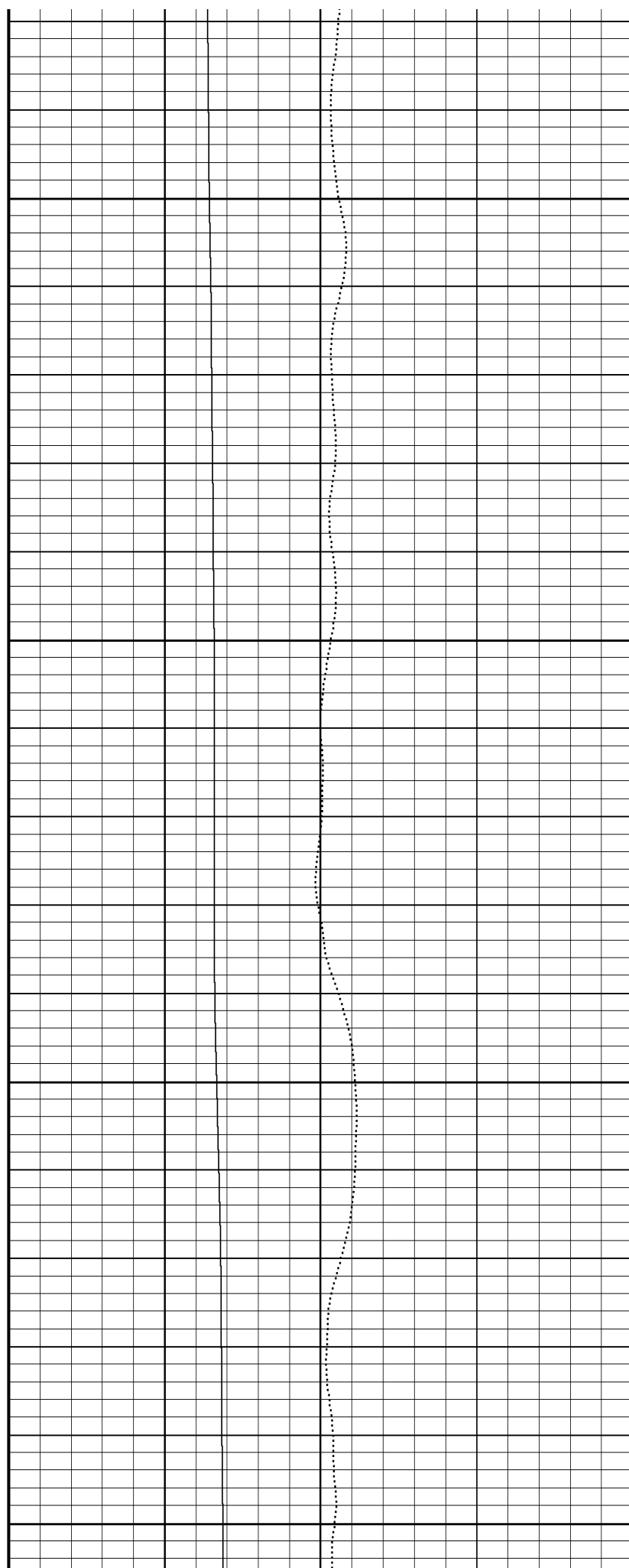
3450

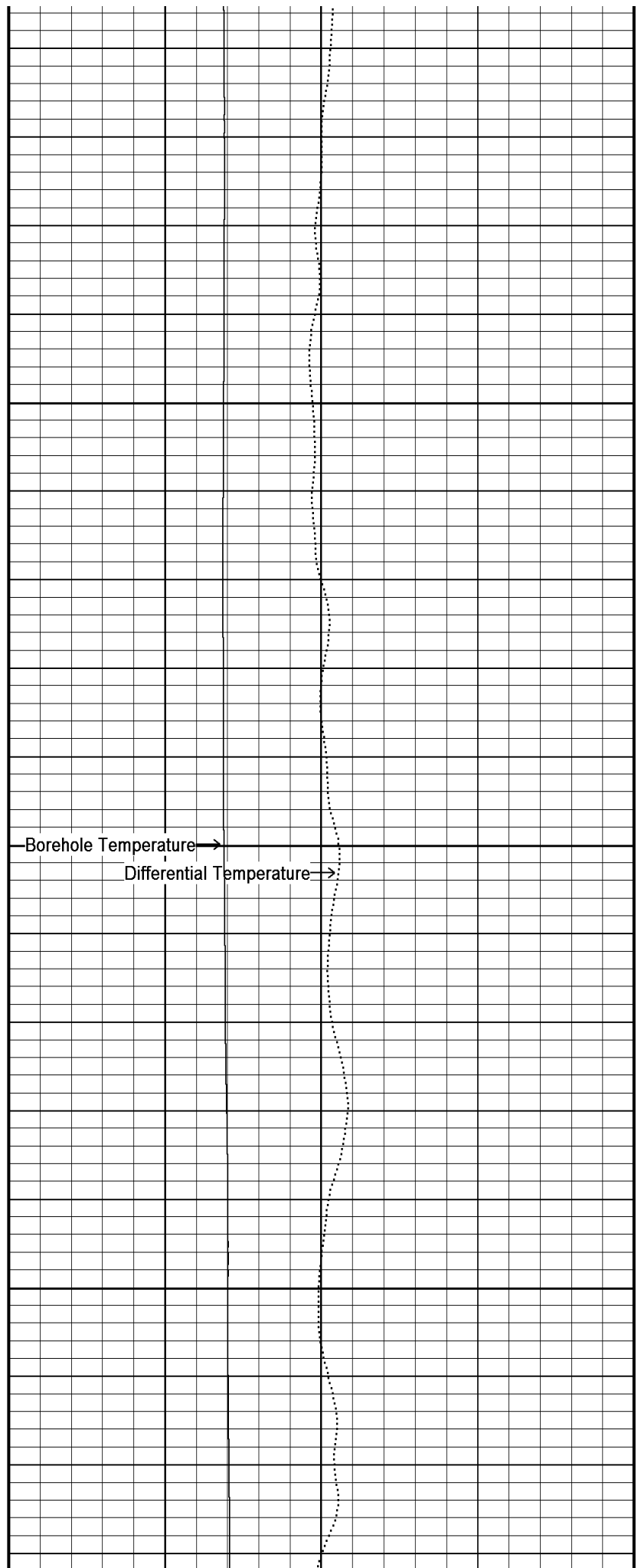
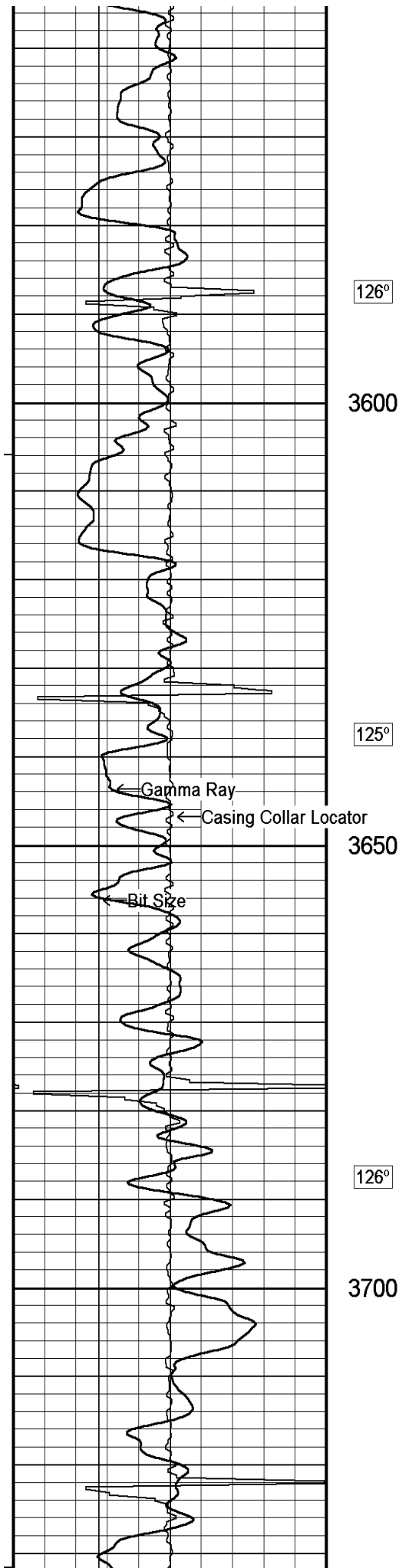
124°

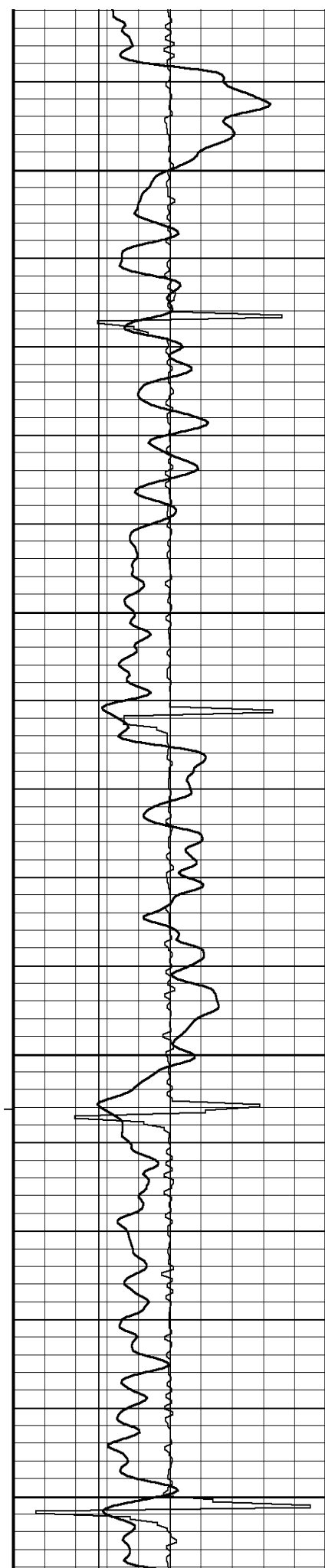
3500

125°

3550







126°

3750

127°

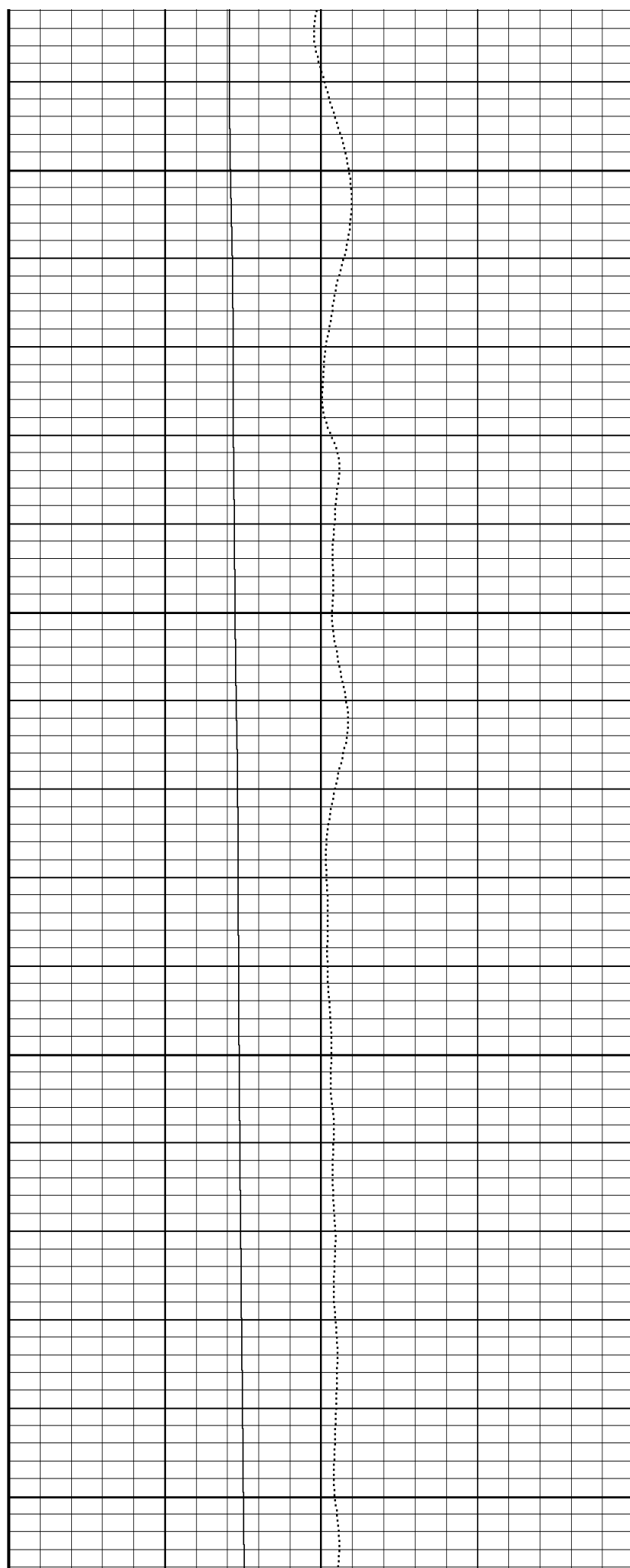
3800

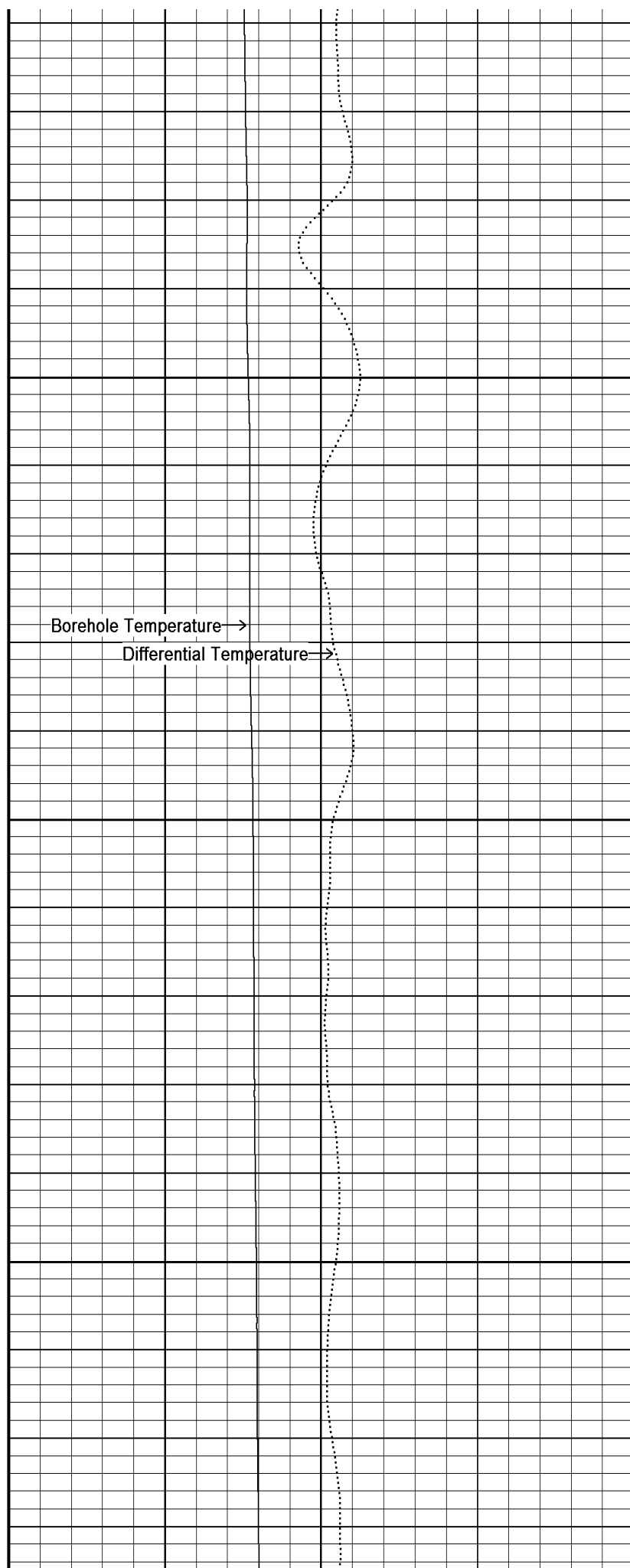
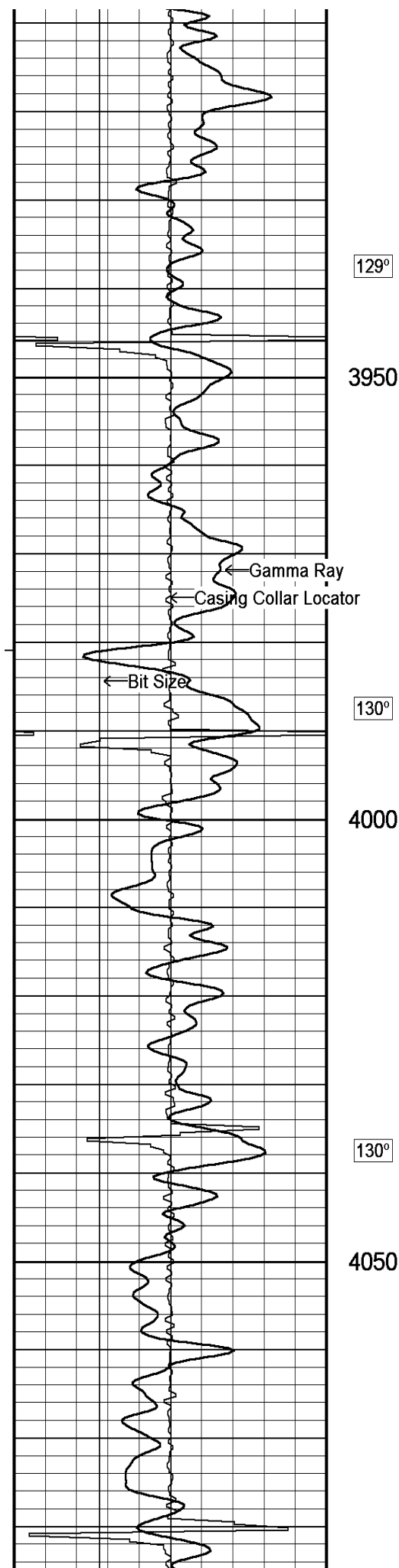
128°

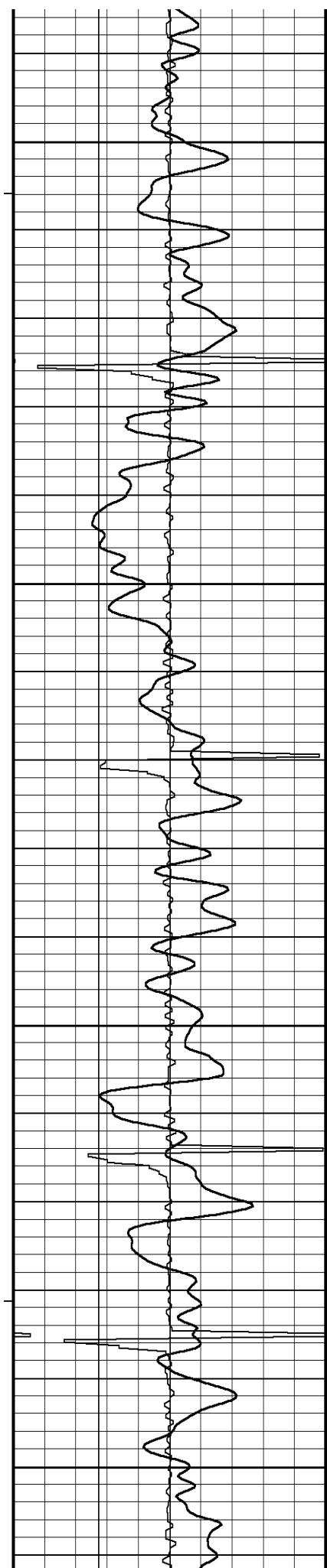
3850

128°

3900







131°

4100

132°

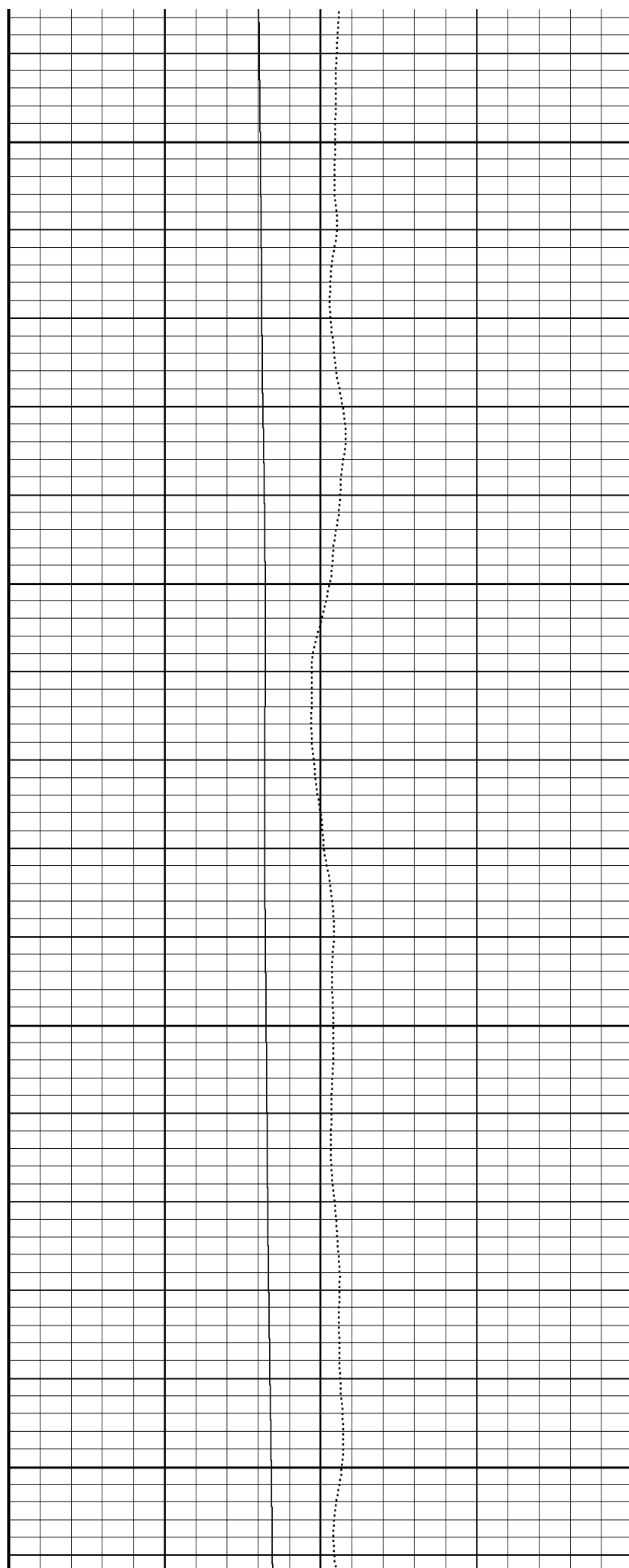
4150

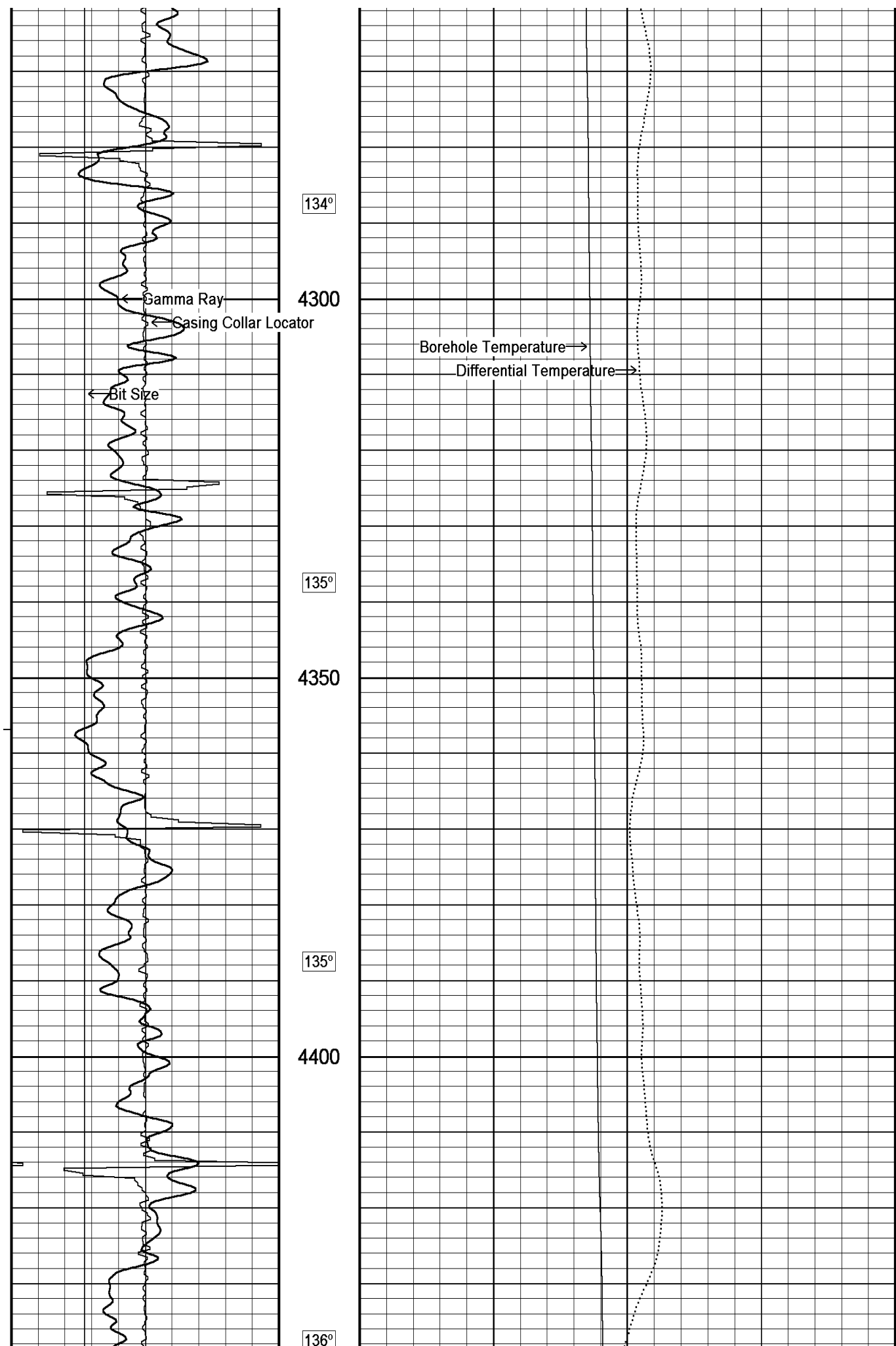
132°

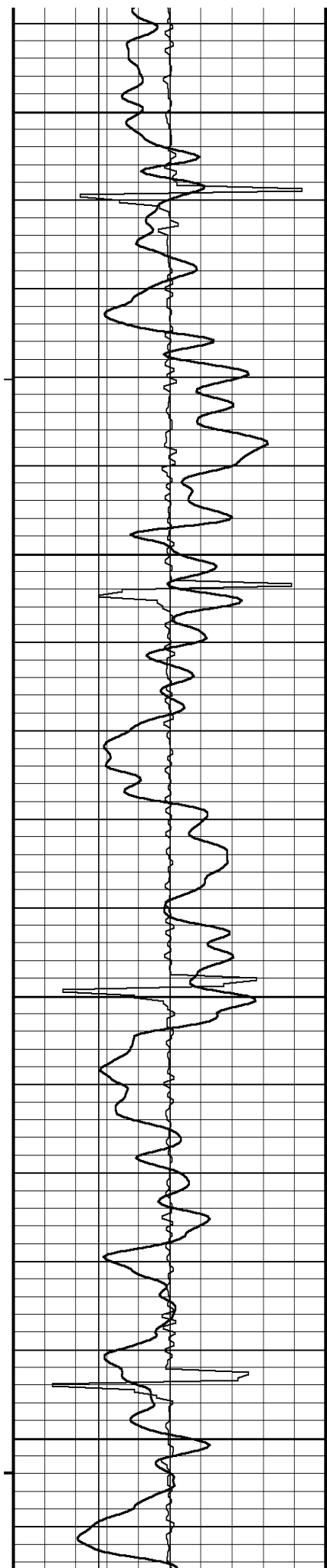
4200

133°

4250







4450

137°

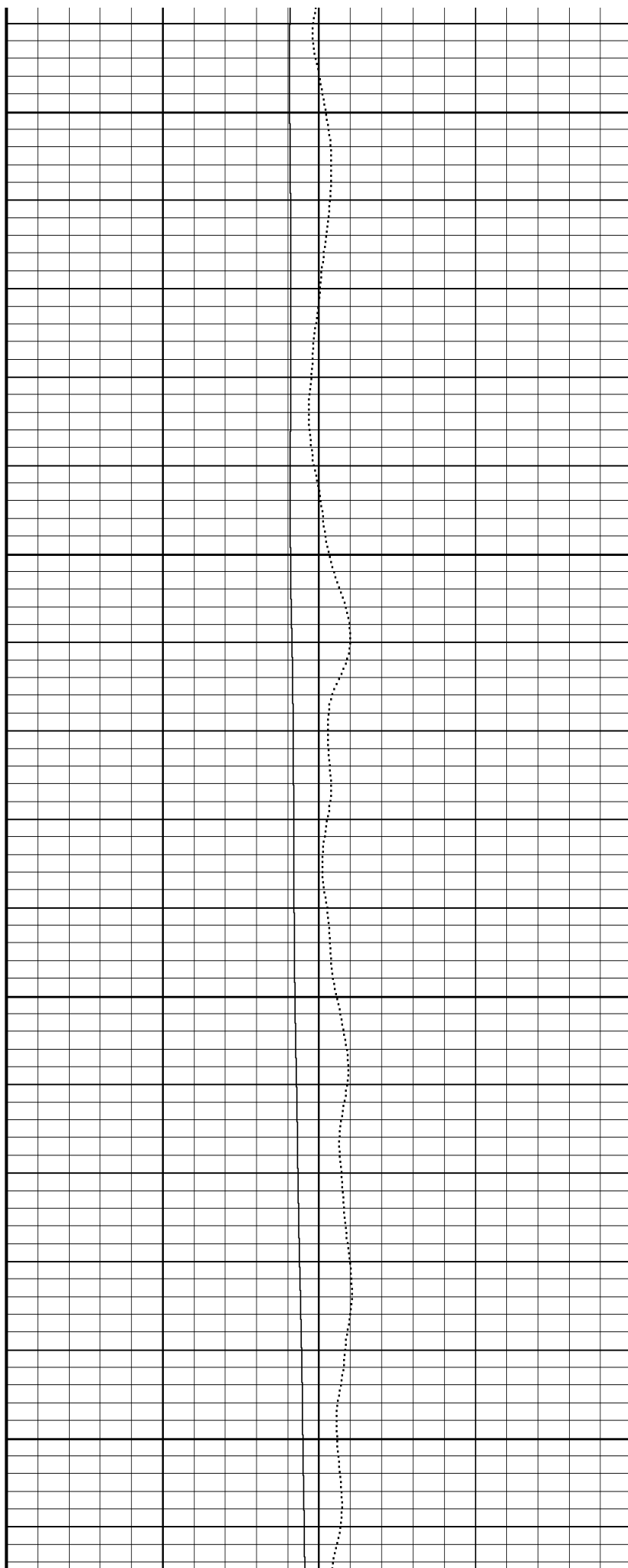
4500

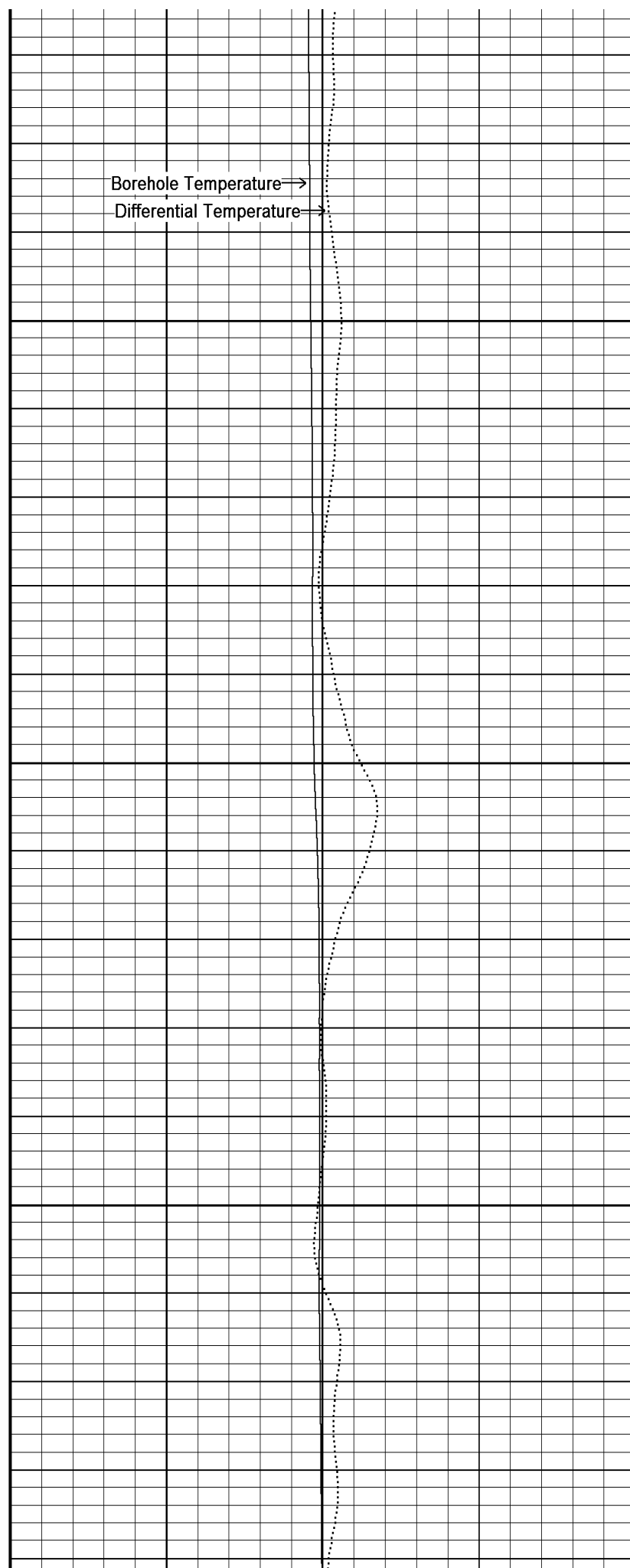
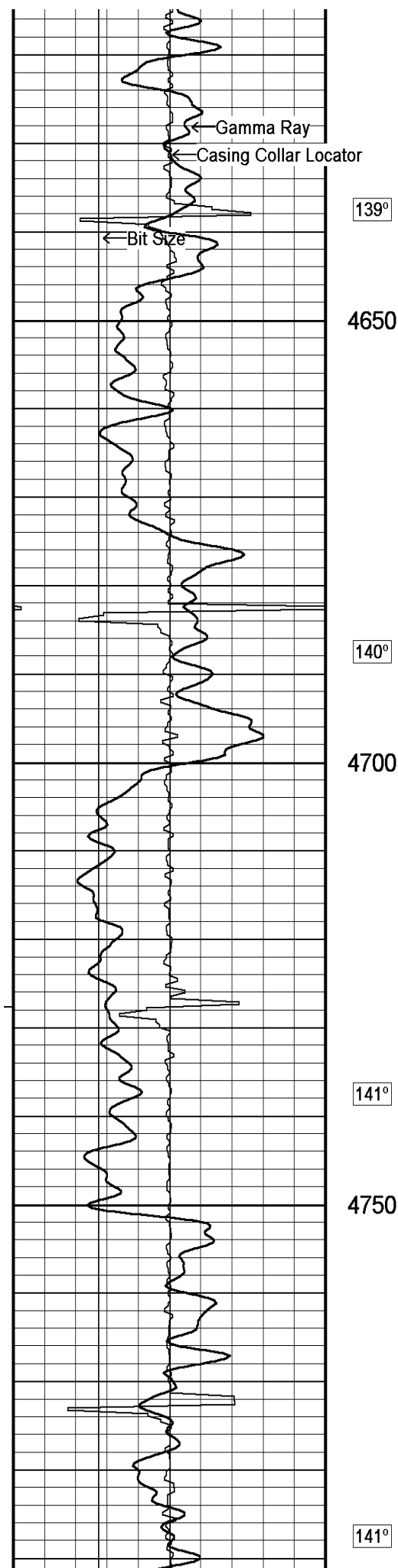
137°

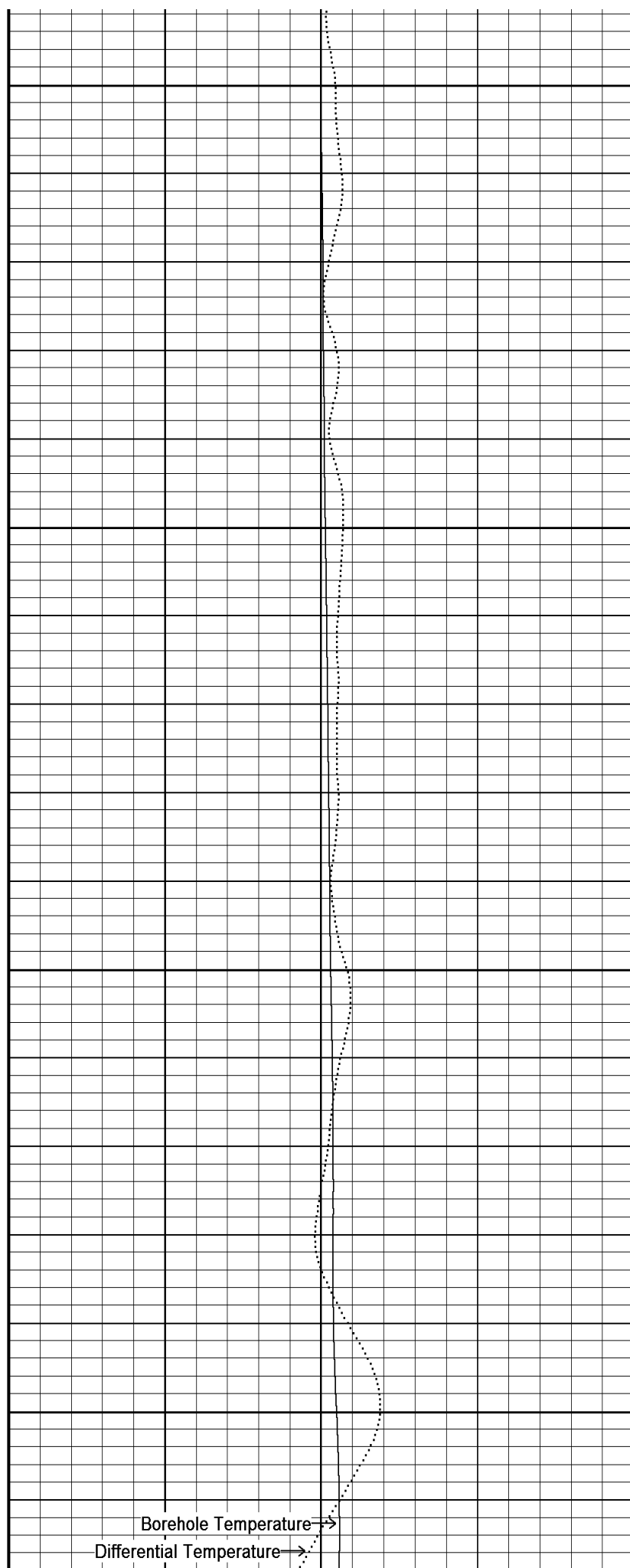
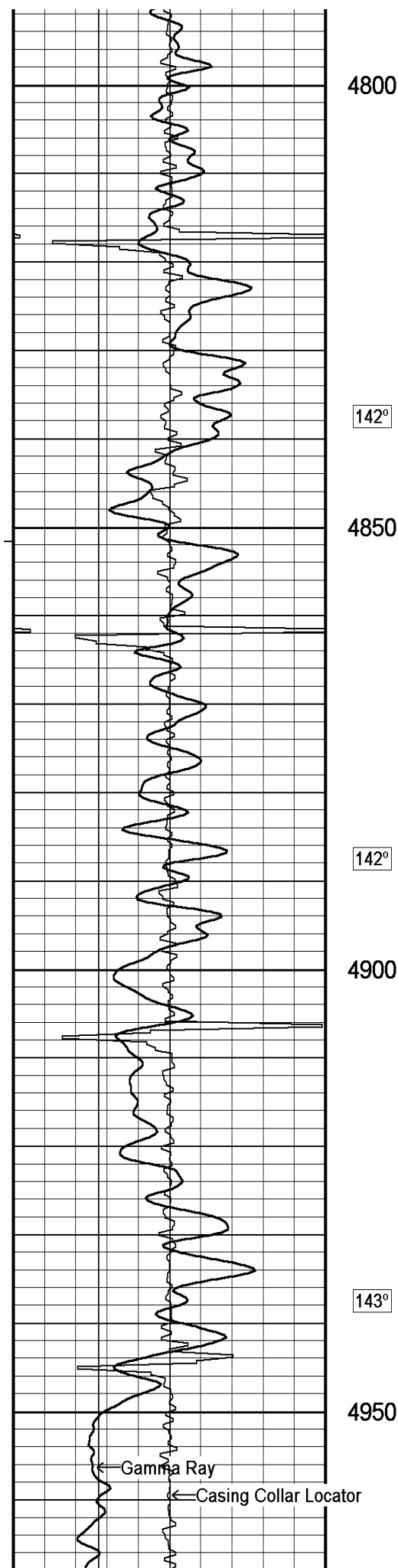
4550

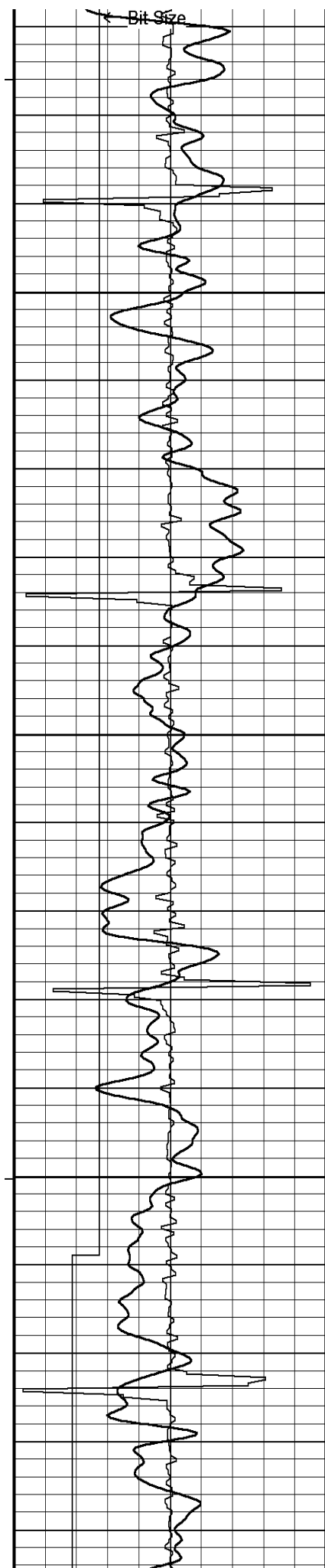
138°

4600









143°

5000

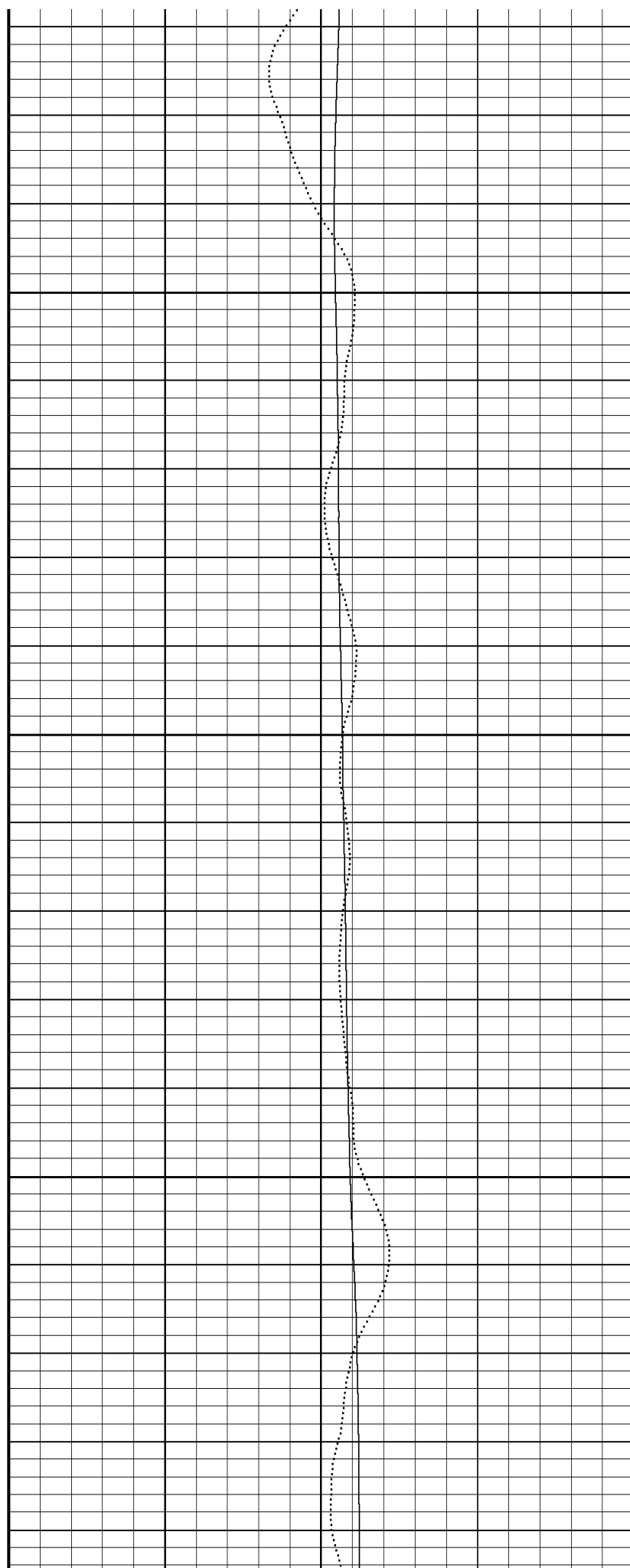
144°

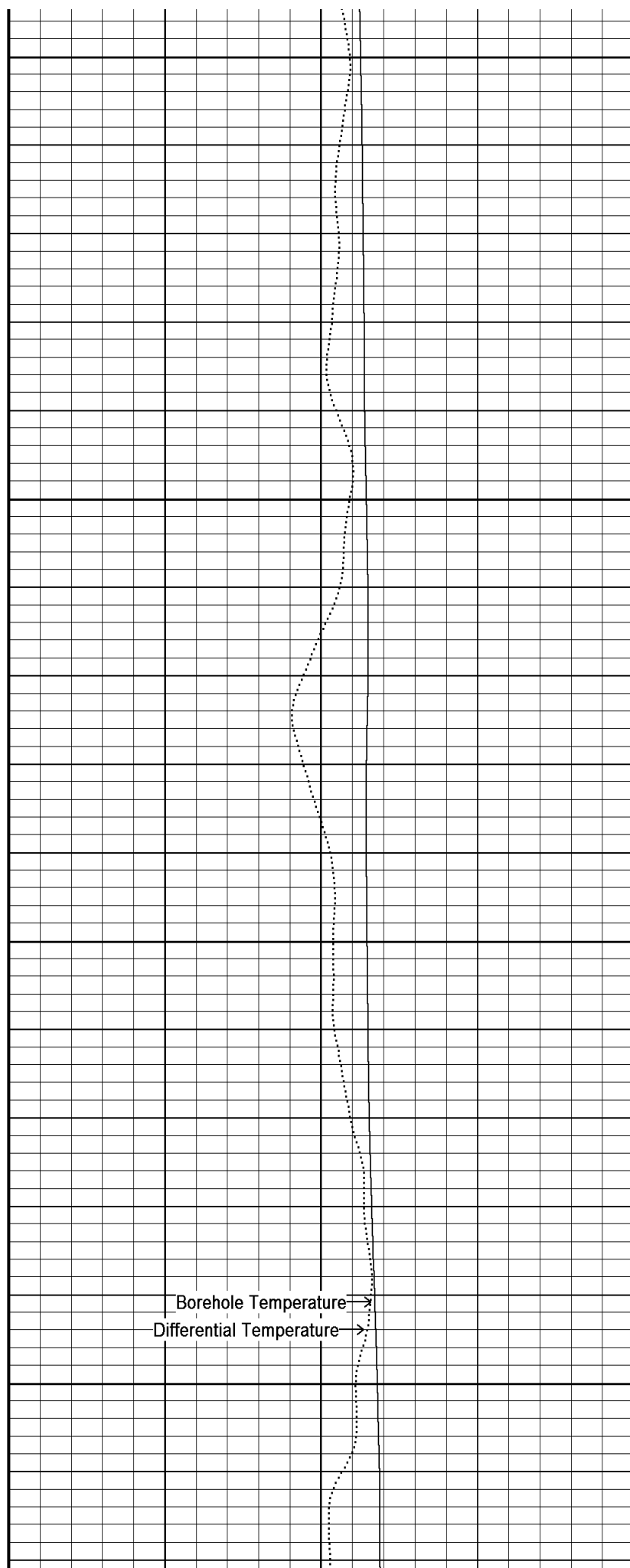
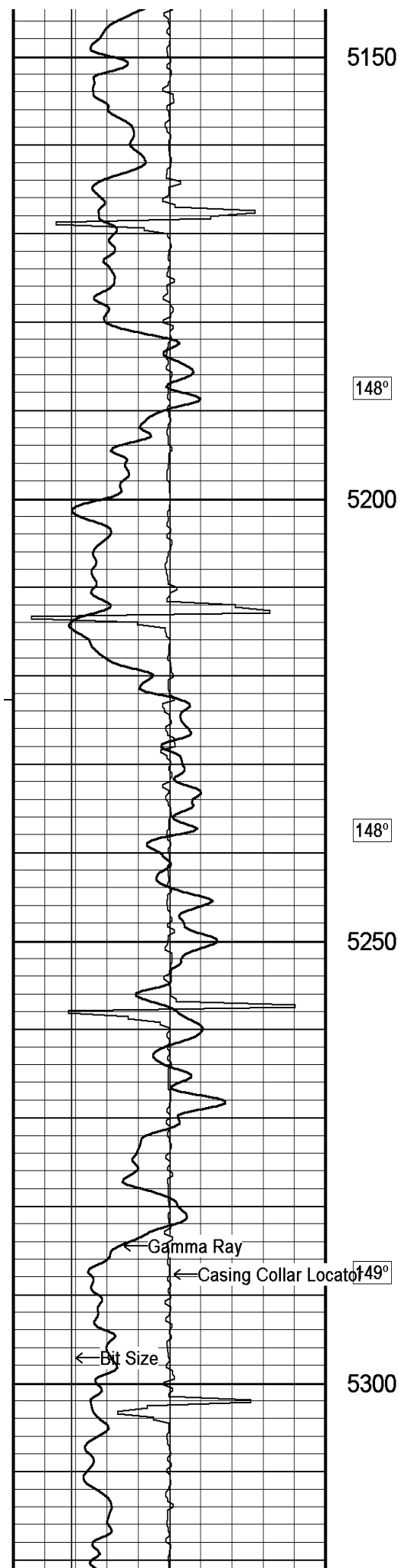
5050

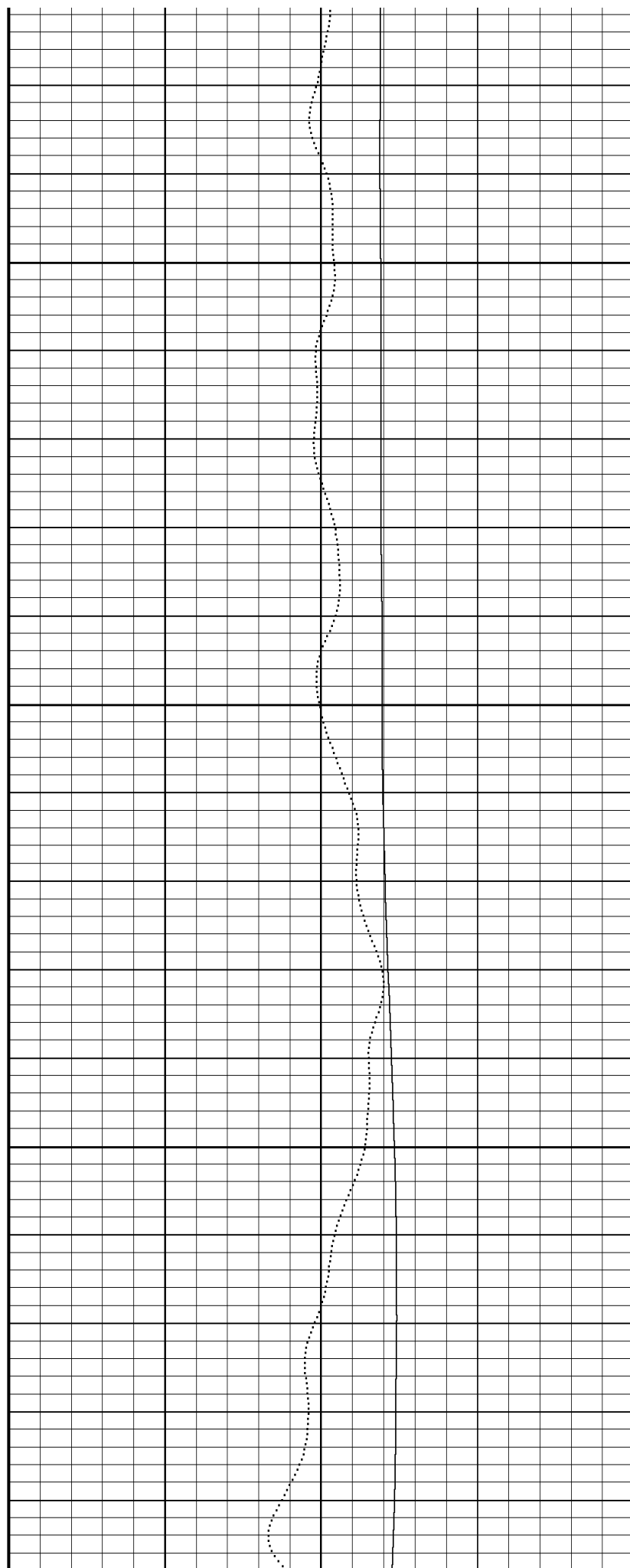
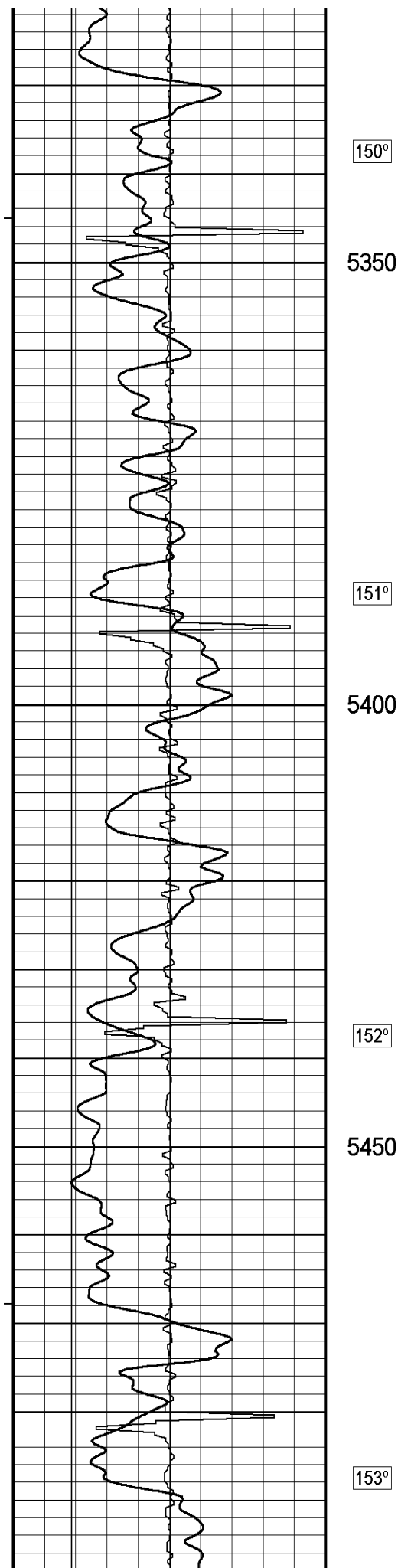
145°

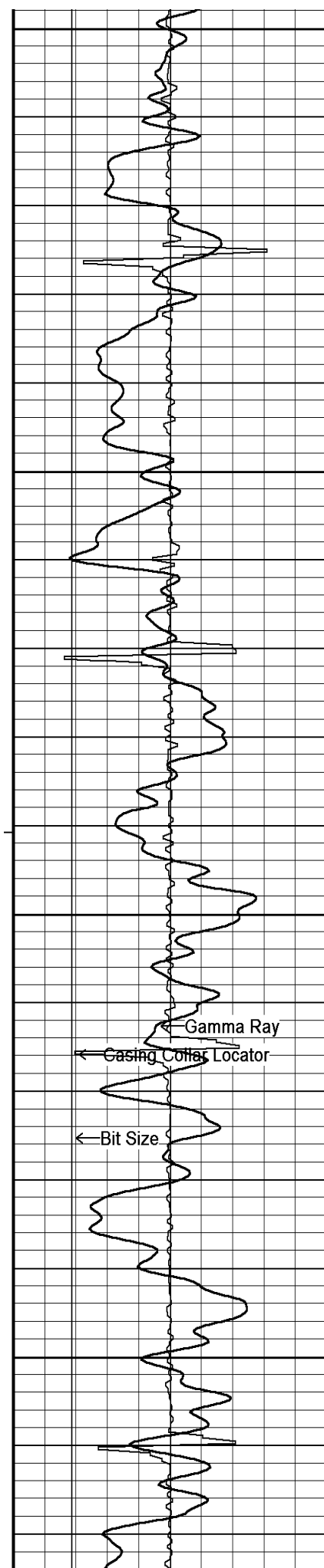
5100

147°









5500

153°

5550

154°

5600

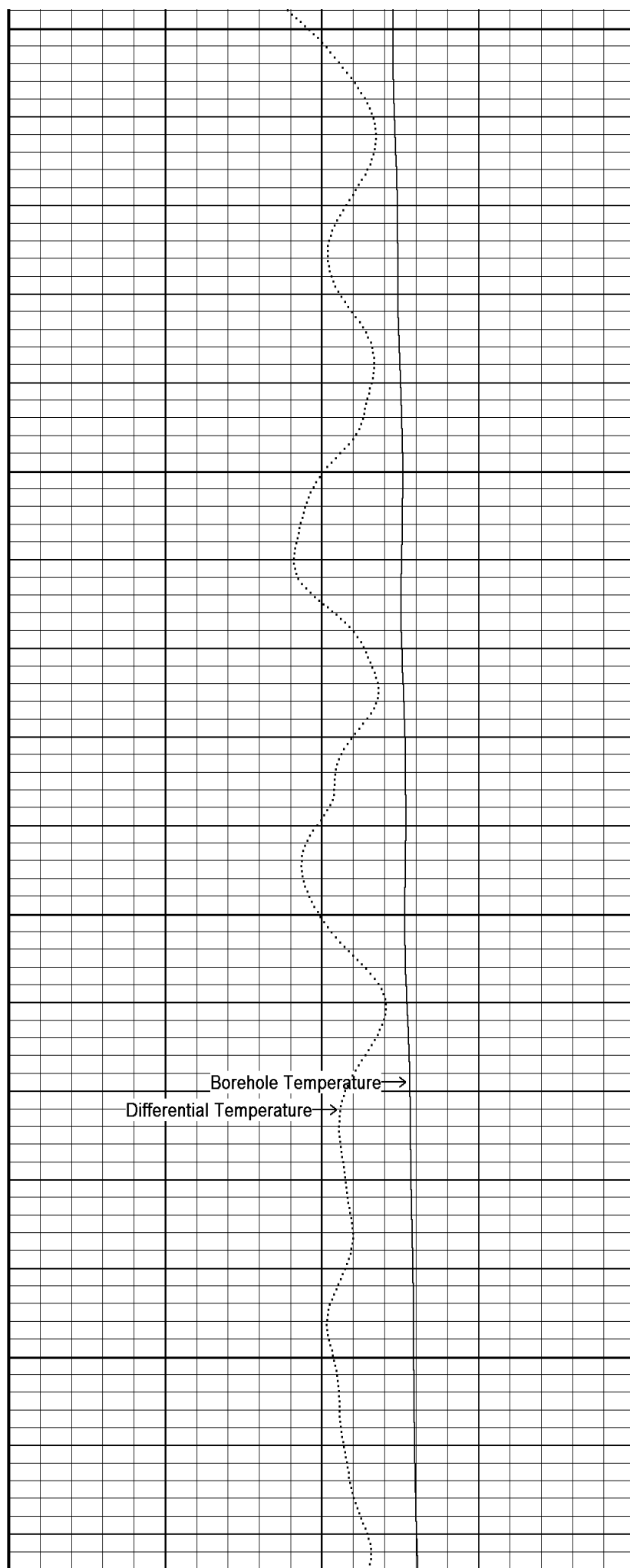
← Gamma Ray

← Casing Collar Locator

← Bit Size

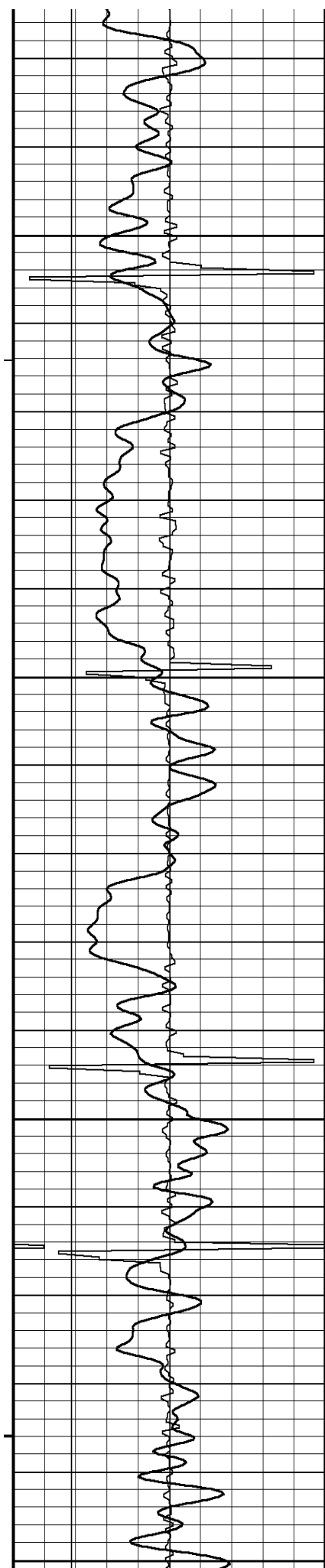
155°

5650



→ Borehole Temperature

→ Differential Temperature



156°

5700

158°

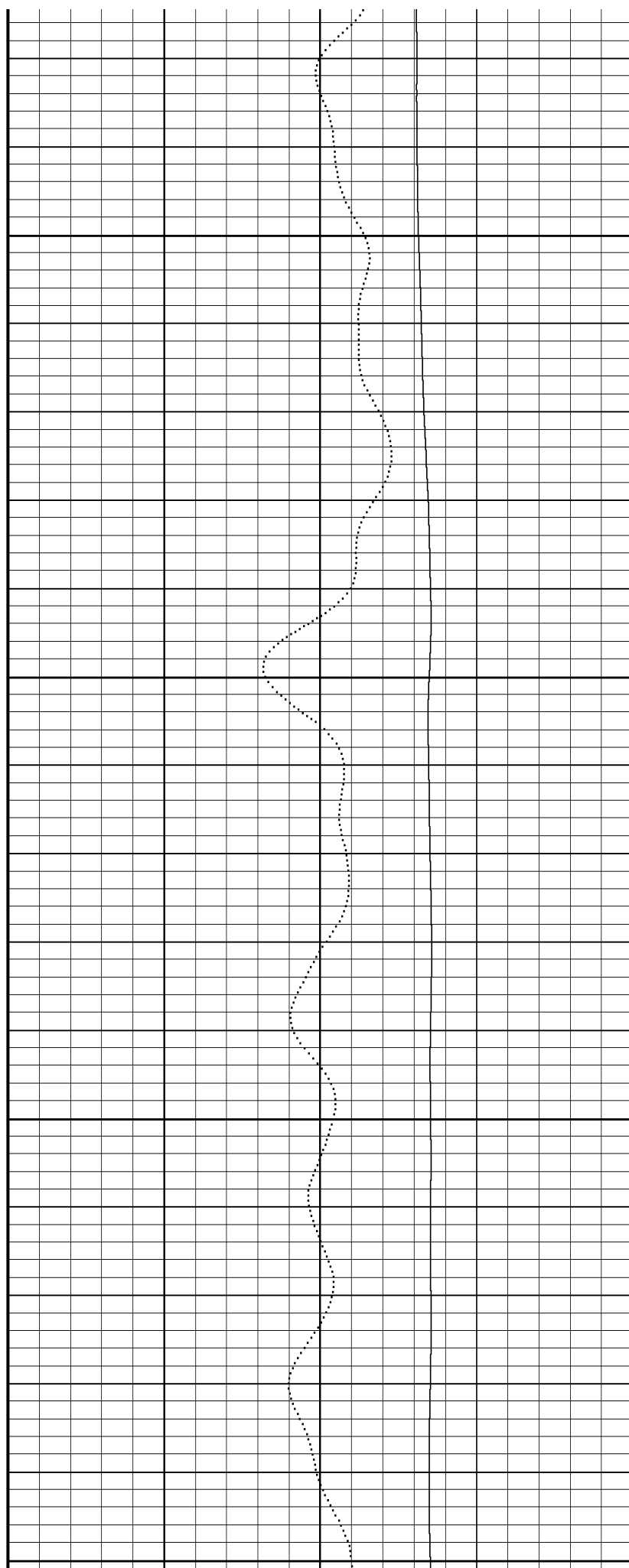
5750

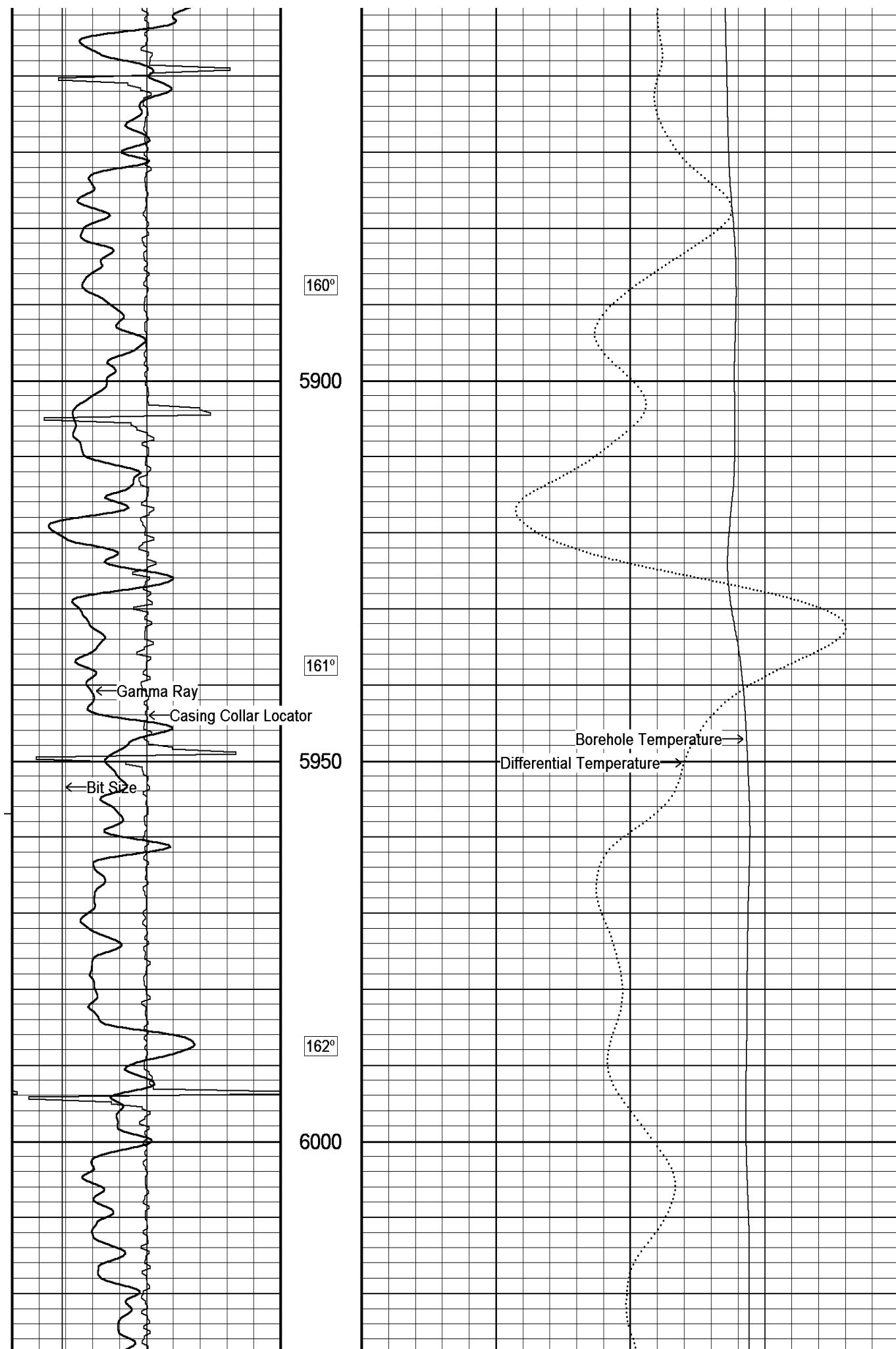
159°

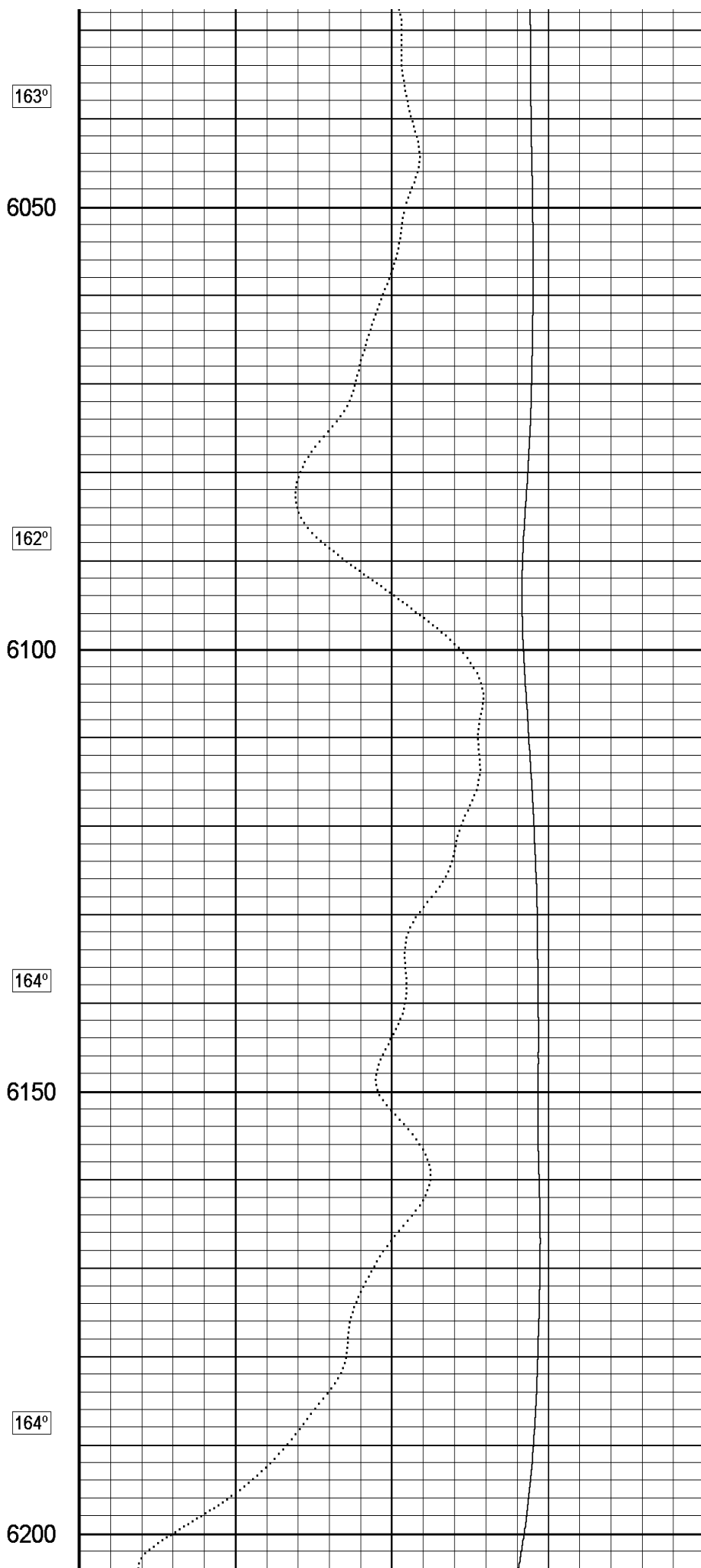
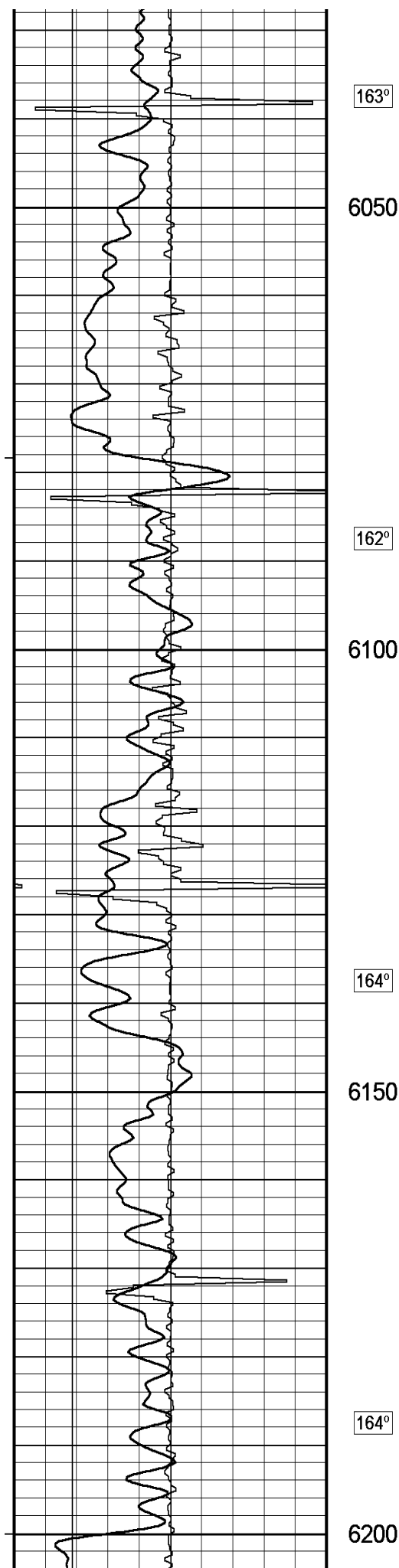
5800

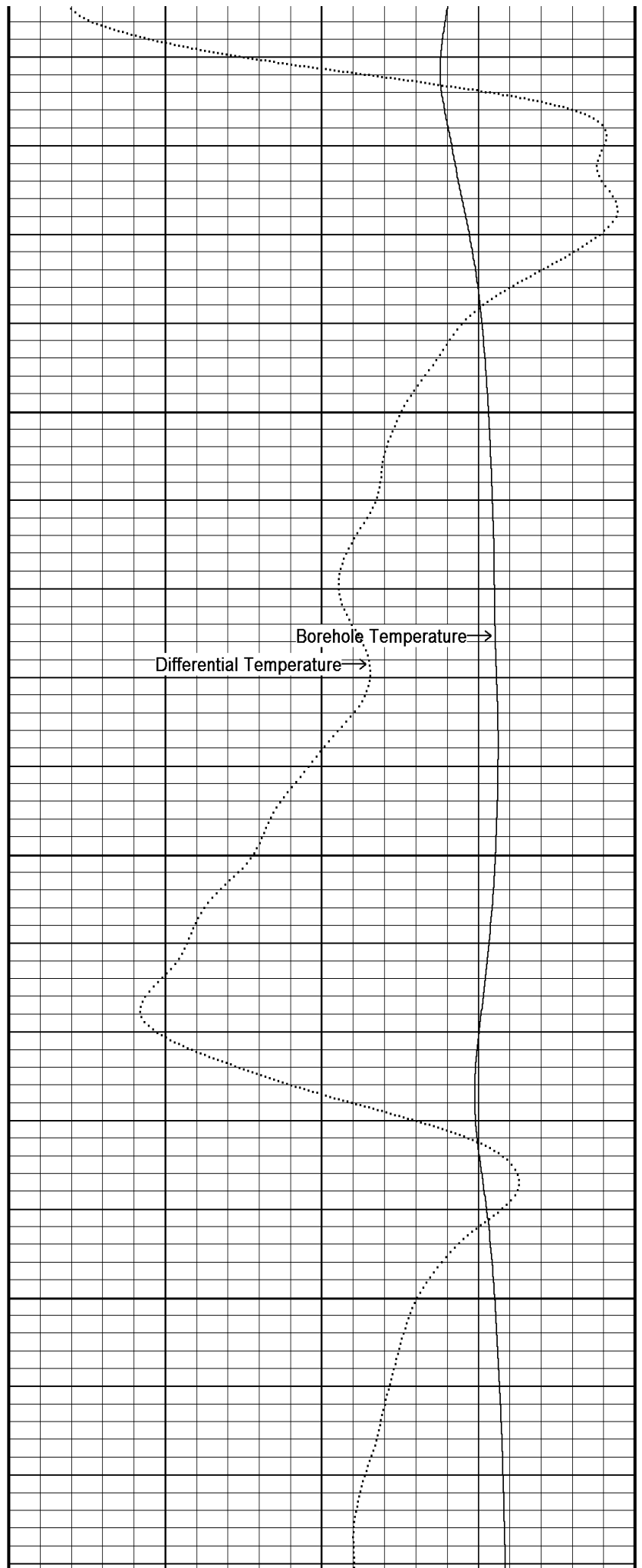
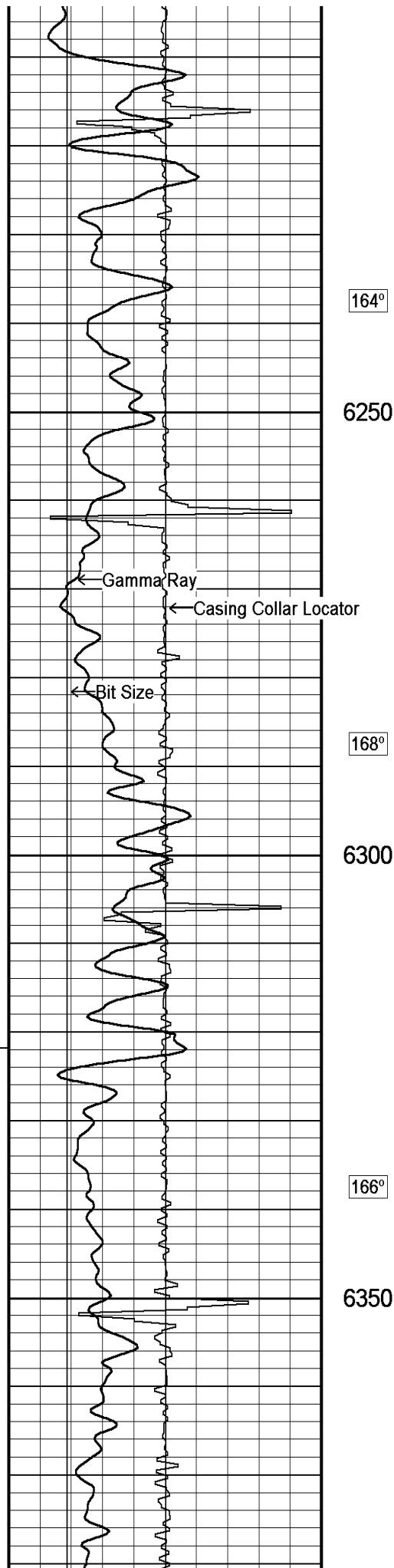
159°

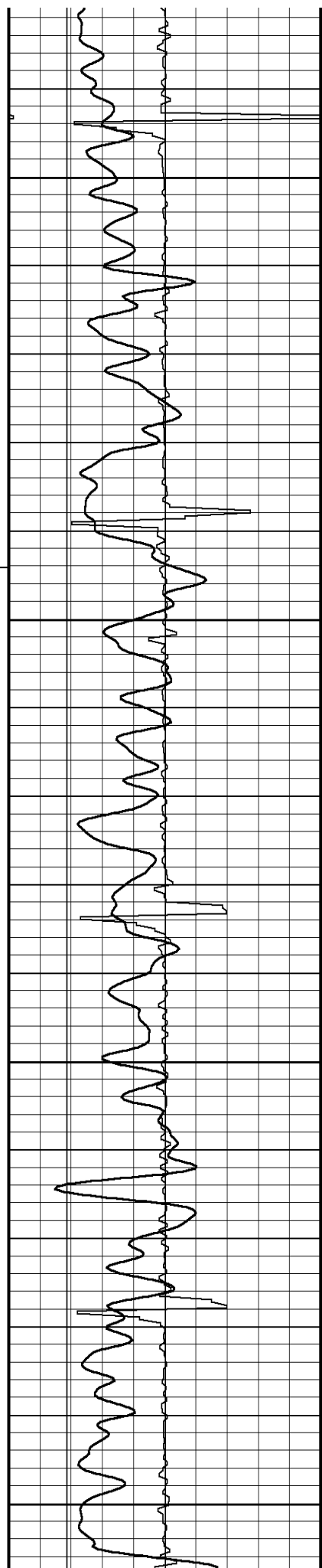
5850











170°

6400

170°

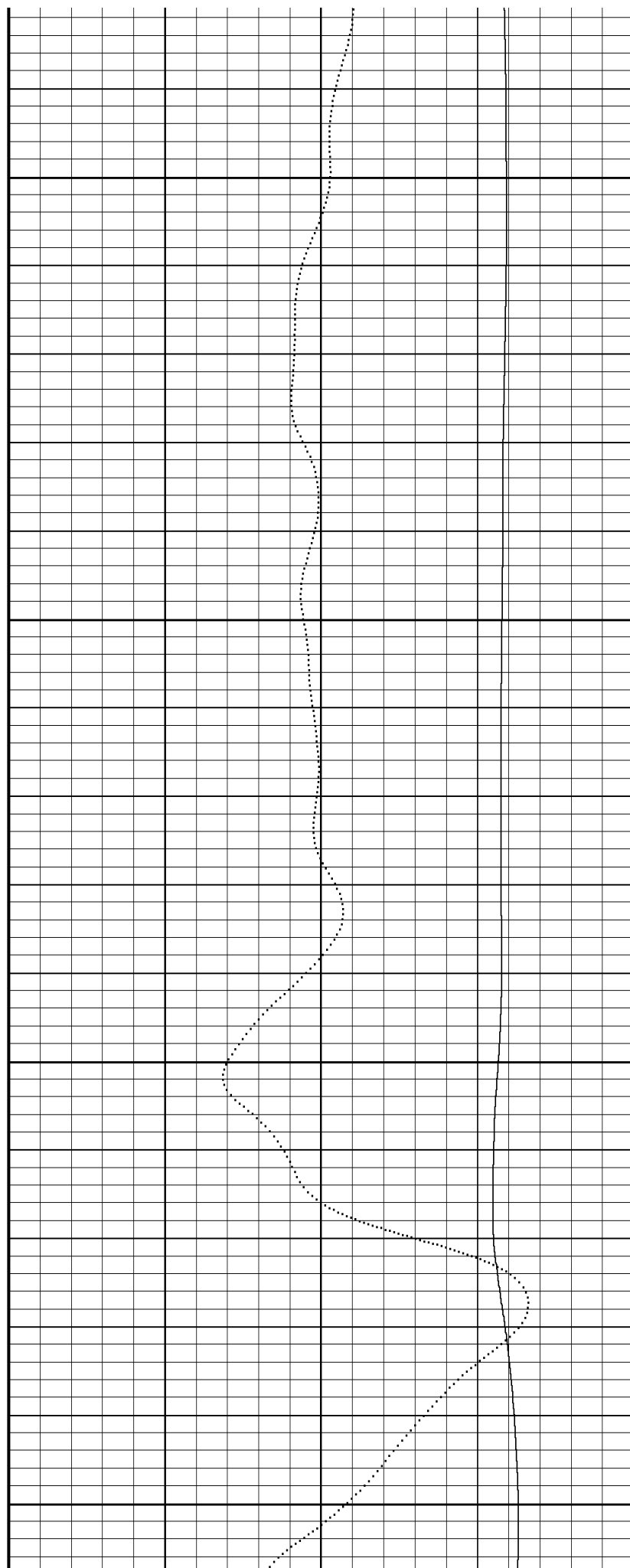
6450

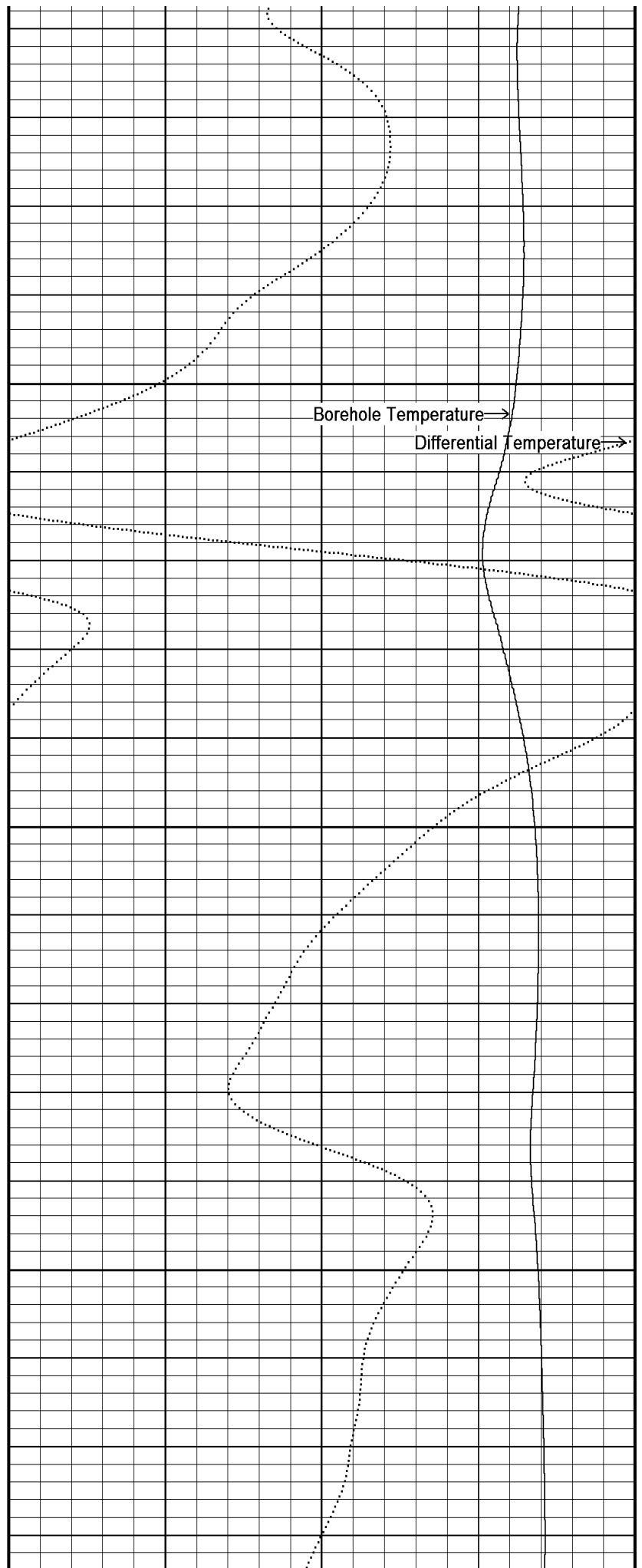
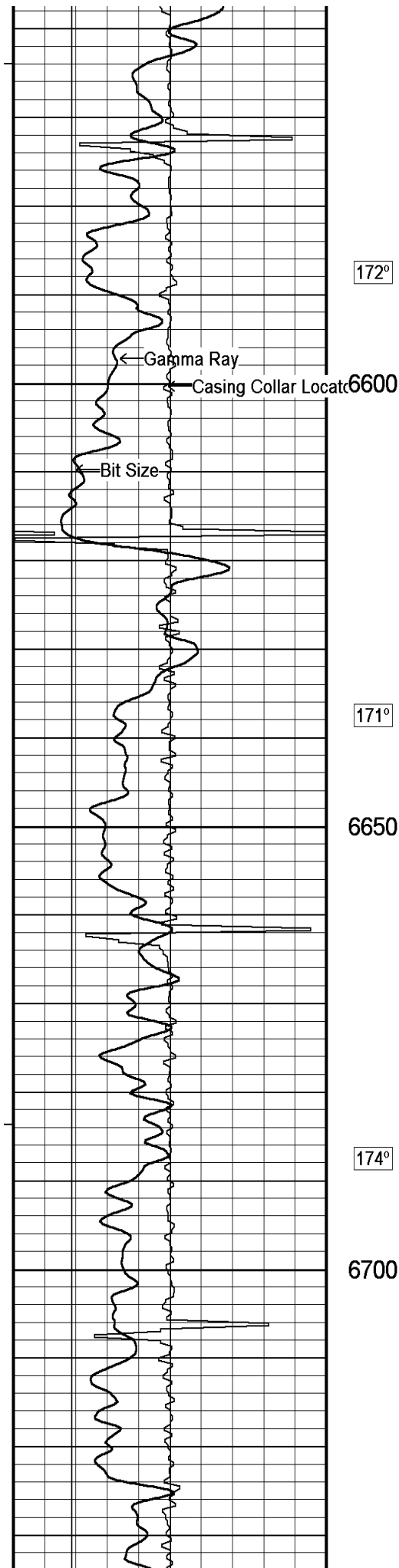
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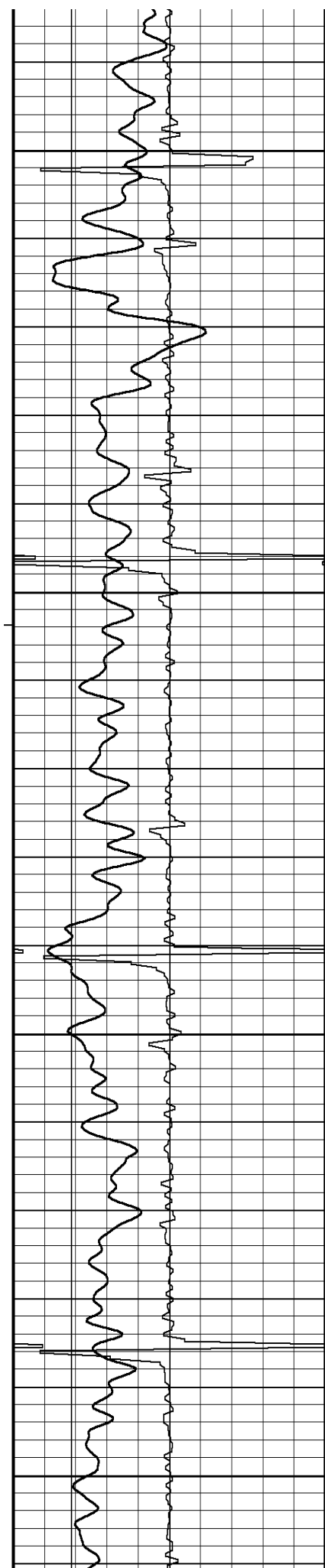
6500

170°

6550







176°

6750

175°

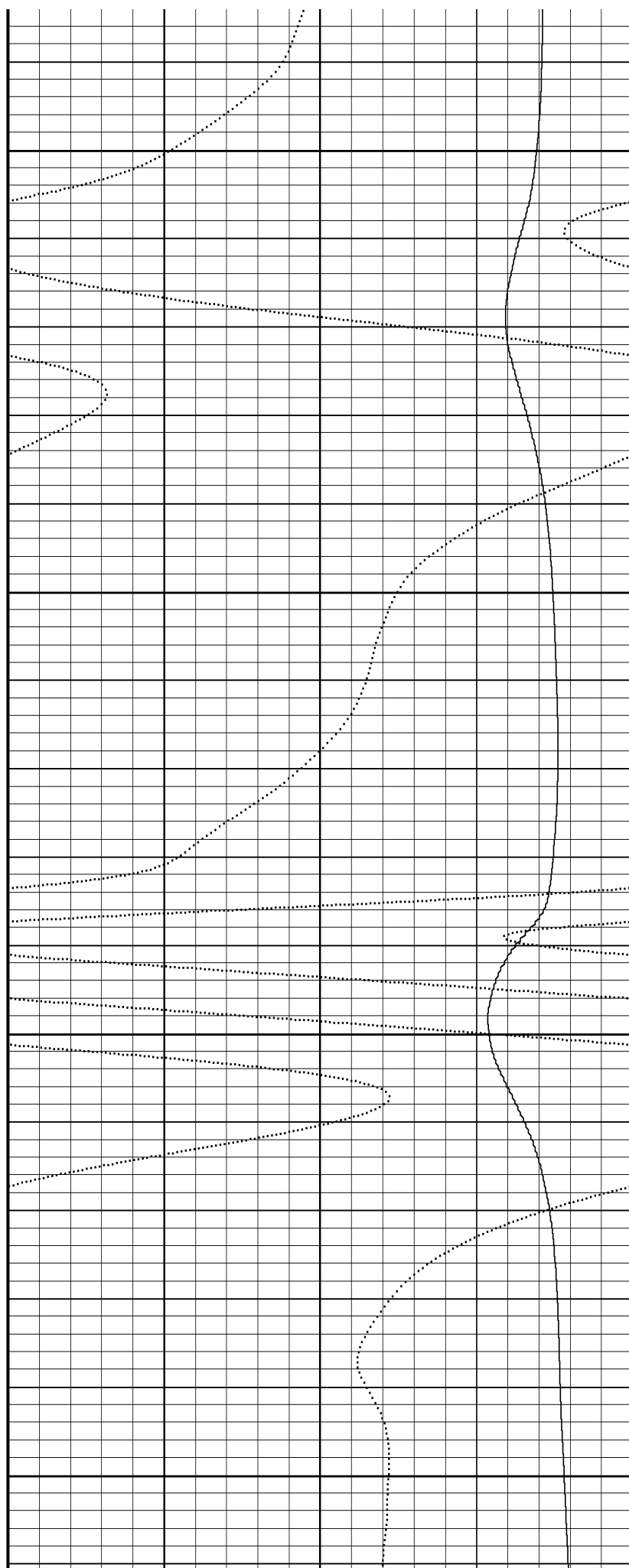
6800

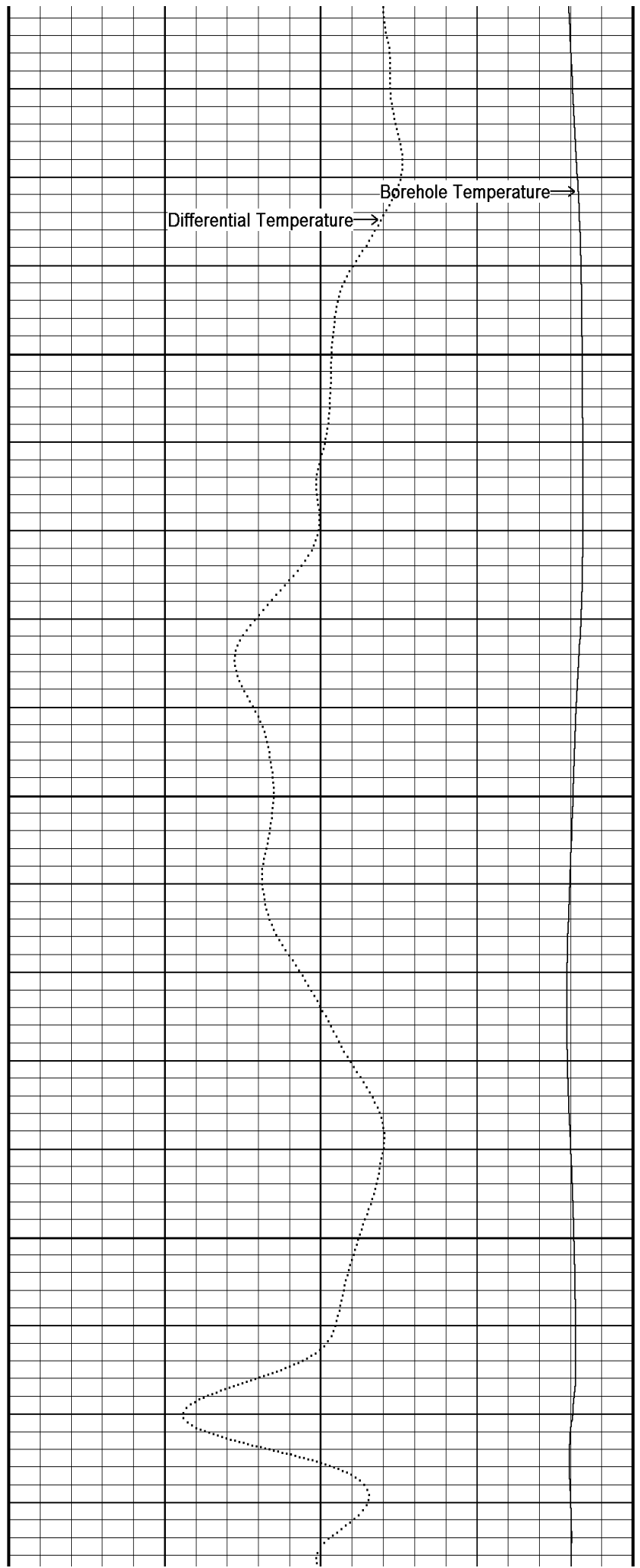
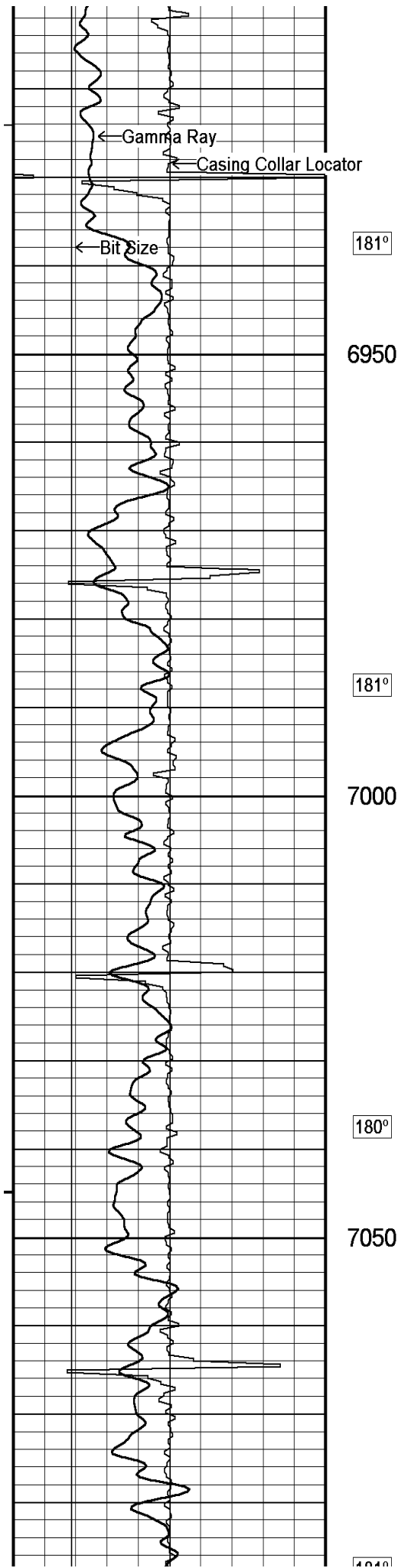
176°

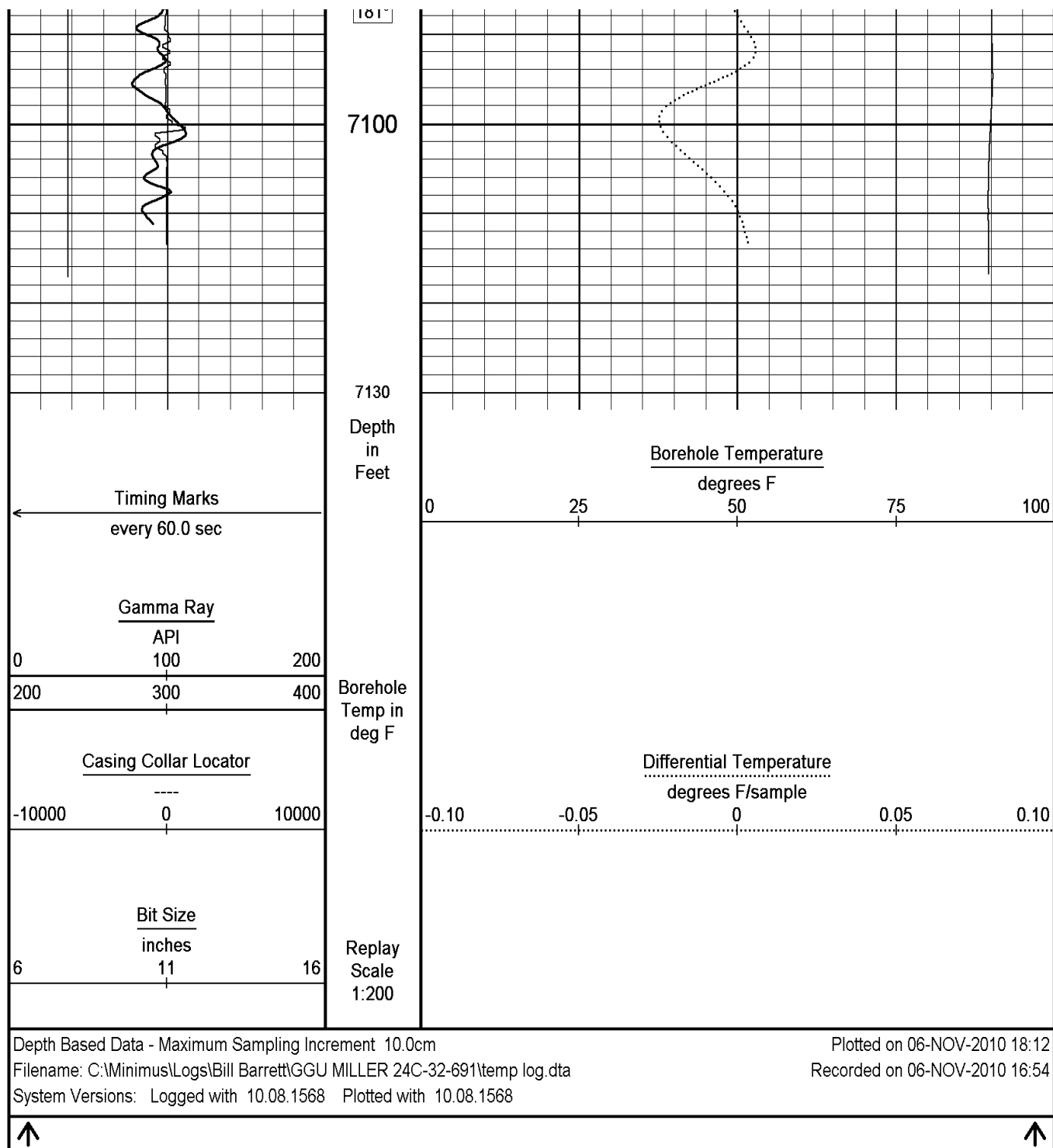
6850

178°

6900







BEFORE SURVEY CALIBRATION

C:\Minimus\Logs\Bill Barrett\GGU MILLER 24C-32-691\temp log.dta

General Constants All 000

Last Edited on 06-NOV-2010,16:50


General Parameters

Mud Resistivity	1.000	ohm-metres
Mud Resistivity Temperature	75.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method	Single Caliper	
HVOL Caliper 1	Bit Size	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches

Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	N/A	
Resistivity used	N/A	
RWA Constant A	N/A	
RWA Constant M	N/A	
Gamma Calibration MCG 342		
		Field Calibration on 05-NOV-2010,21:12
	Measured	Calibrated (API)
Background	150	101
Calibrator (Gross)	1080	727
Calibrator (Net)	930	626
Gamma Constants MCG 342		
		Last Edited on 30-OCT-2010,15:36
Gamma Calibrator Number	GRC-005	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm
High Resolution Temperature Calibration MCG 342		
		Field Calibration on 04-NOV-2010,21:21
	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	75.00	75.00
High Resolution Temperature Constants MCG 342		
		Last Edited on 13-SEP-2010,08:11
Pre-filter Length	11	
High Resolution Temperature Calibration MHT 011		
		Field Calibration on 06-NOV-2010,16:49
	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00
High Resolution Temperature Constants MHT 011		
		Last Edited on 06-NOV-2010,16:49
Pre-filter Length	11	

COMPANY	BILL BARRETT CORPORATION				
WELL	GGU MILLER 24C-32-691				
FIELD	MAMM CREEK				
PROVINCE/COUNTY	GARFIELD				
COUNTRY/STATE	U.S.A. / COLORADO				
Elevation Kelly Bushing	6142.00	feet	First Reading	100.00	feet
Elevation Drill Floor		feet	Depth Driller	7128.00	feet
Elevation Ground Level	6120.00	feet	Depth Logger		feet
 <div> <div>TEMPERATURE</div> <div>CEMENT</div> <div>LOG</div> </div>					