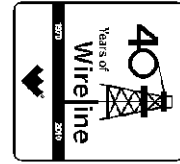




Weatherford[®]

TEMPERATURE LOG

COMPANY **BILL BARRETT CORPORATION**
 WELL **GGU DALEY 24C-19-691**
 FIELD **GIBSON GULCH**
 PROVINCE/COUNTY **GARFIELD**
 COUNTRY/STATE **U.S.A. / COLORADO**
 LOCATION **SHL: 332' FSL & 2006' FWL**
BHL: 830' FSL & 1980' FWL



SEC 30 TWP 6S RGE 91W Other Services
 API Number 05-045-19585
 Permit Number

Permanent Datum G.L., Elevation 5824 feet
 Log Measured From KB
 Drilling Measured From K.B.

Elevations: feet
 KB 5847.00
 DF 5846.00
 GL 5824.00

Date	11-JUNE-2011	
Run Number	ONE	
Depth Driller	7301.00	feet
Depth Logger	7296.00	feet
First Reading	200.00	feet
Last Reading	7296.00	feet
Casing Driller	7301.00	feet
Casing Logger		
Bit Size	7.880	inches
Hole Fluid Type	WATER	
Density / Viscosity		
PH / Fluid Loss		
Sample Source	FLOW LINE	
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc	CALC	CALC
Rm @ BHT		
Time Since Circulation		
Max Recorded Temp	171.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13173	G.D.JCT
Recorded By	M.RICHINS	
Witnessed By	C.CROW	F.MRABET

BOREHOLE RECORD

Last Edited: 11-JUN-2011 13:00

Bit Size inches	Depth From feet	Depth To feet
8.750	813.00	5307.00
7.880	5307.00	7355.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	813.00	36.00
PRODUCT	4.500	0.00	7301.00	11.40

REMARKS

TOP OF CEMENT IS APPROXIMATELY 2600 FEET.
 4.5 INCH PRODUCTION CASING.
 CASED HOLE TEMPERATURE LOG WAS LOGGED WITH SHA, MCG AND MHT.
 CORRELATED TO WEATHERFORDS OPEN HOLE LOGS.
 ALL INTERVALS LOGGED AND SCALED PER CUSTOMER REQUEST.
 ENGINEER: M.RICHINS
 OPERATORS: W.WILLAIMS
 RIG: PATTERSON 307

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.

5 INCH MAIN LOG

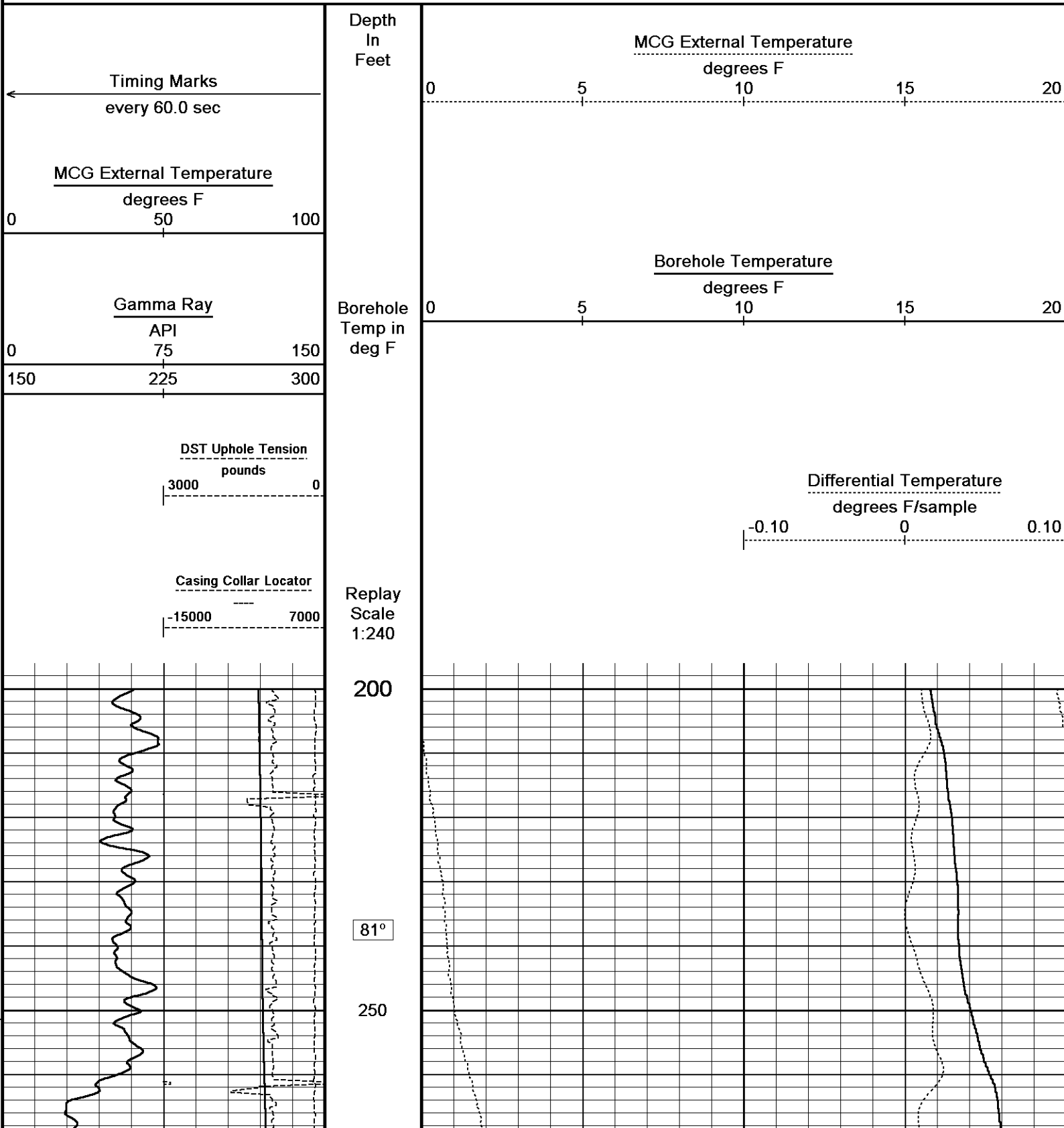
Depth Based Data - Maximum Sampling Increment 10.0cm

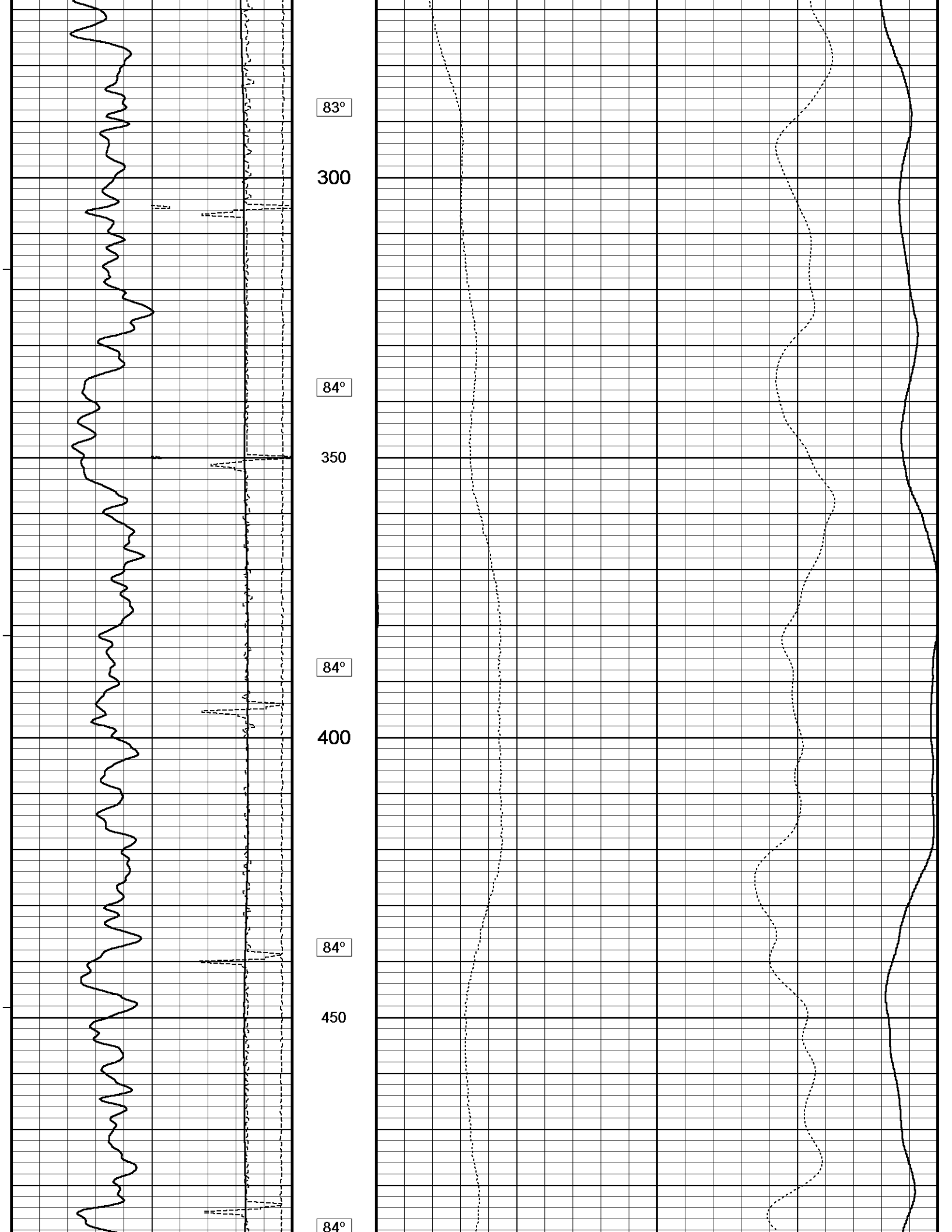
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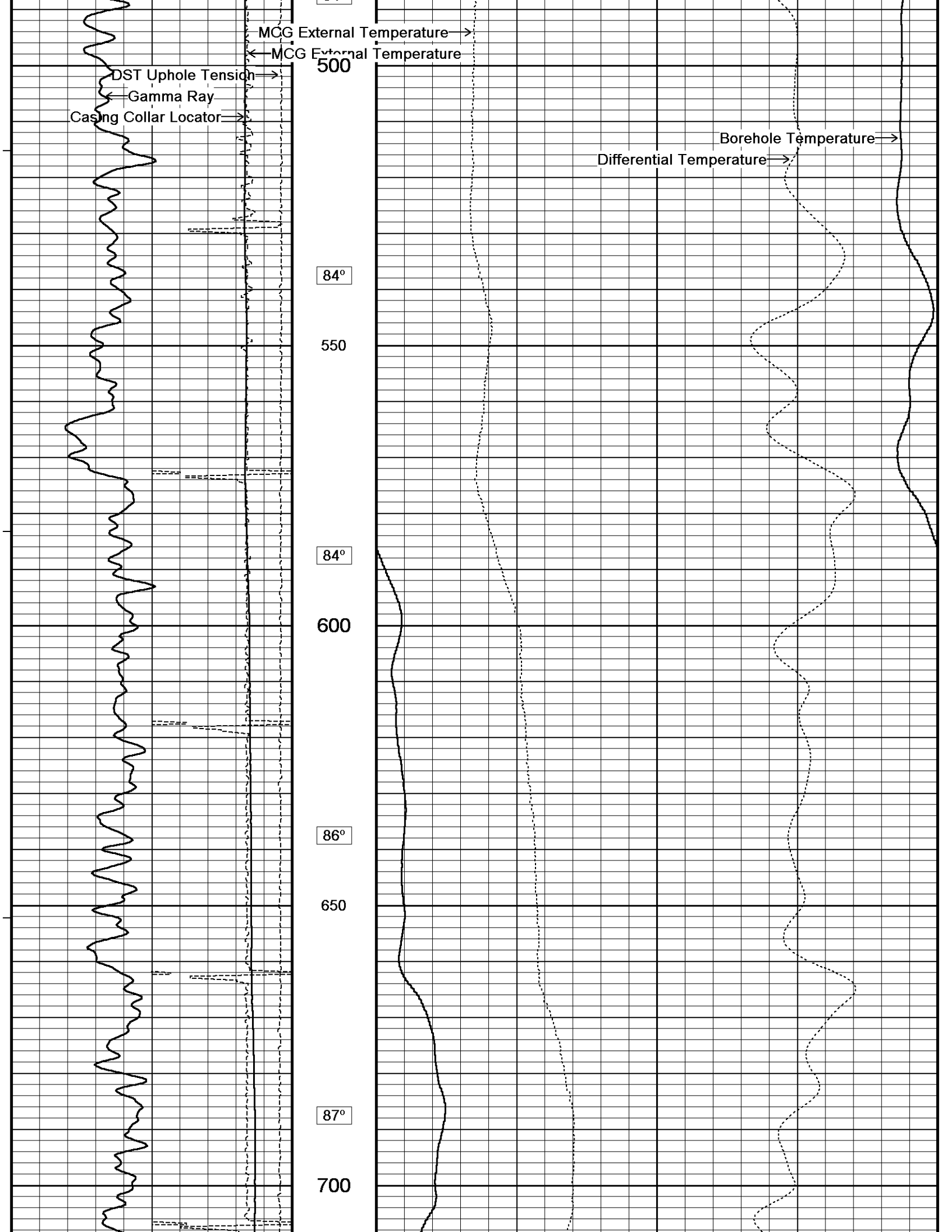
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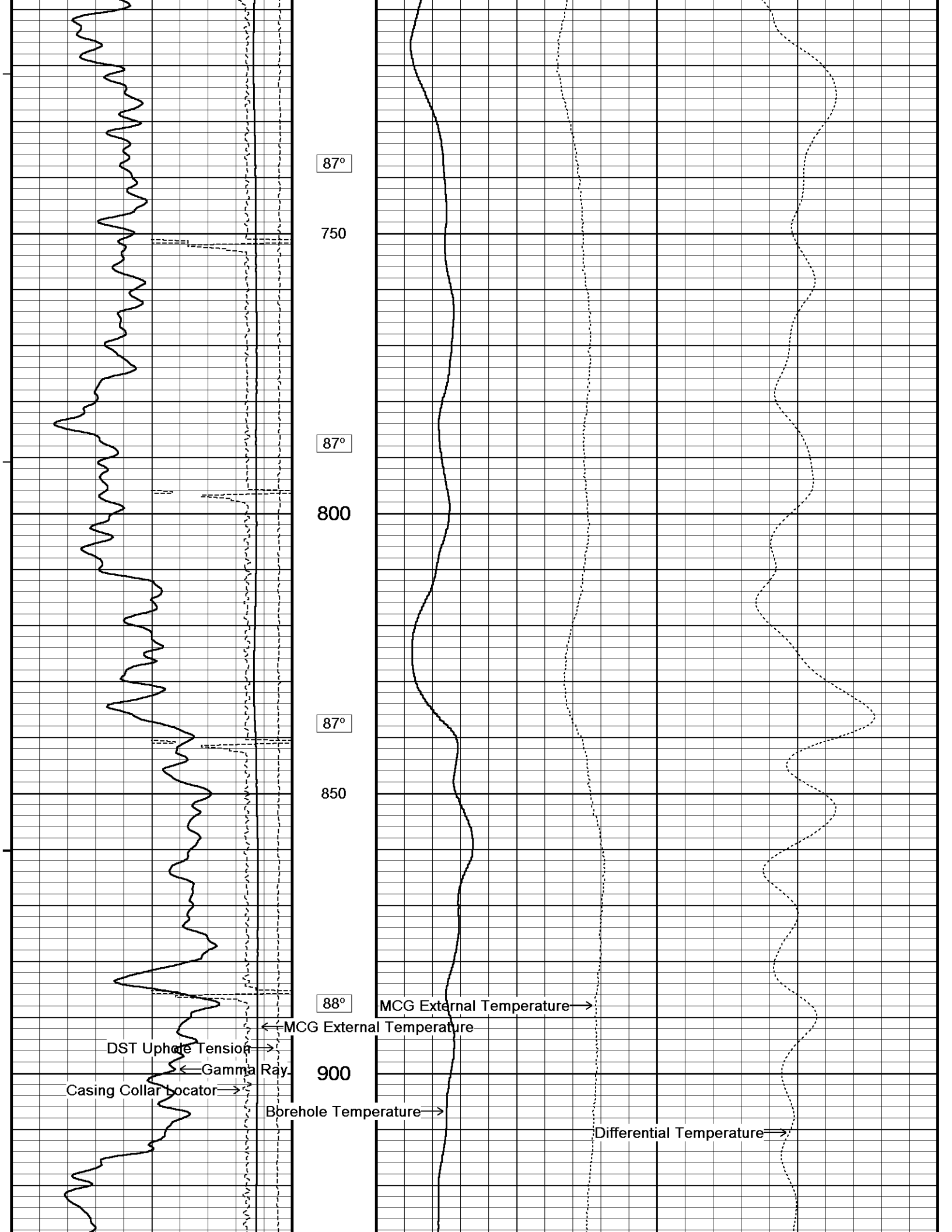
Recorded on 11-JUN-2011 11:38

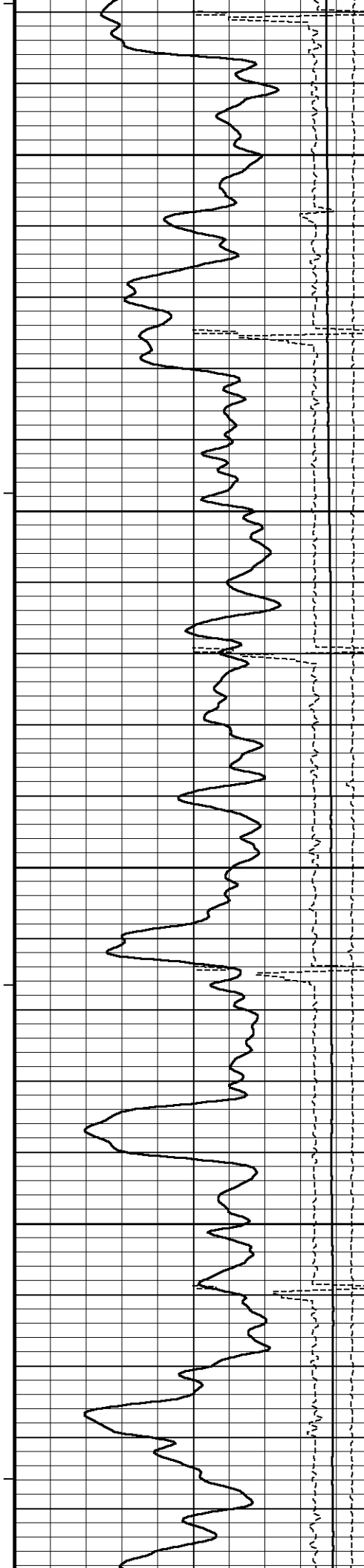
System Versions: Logged with 11.03.3657 Plotted with 11.03.3657











87°

950

88°

1000

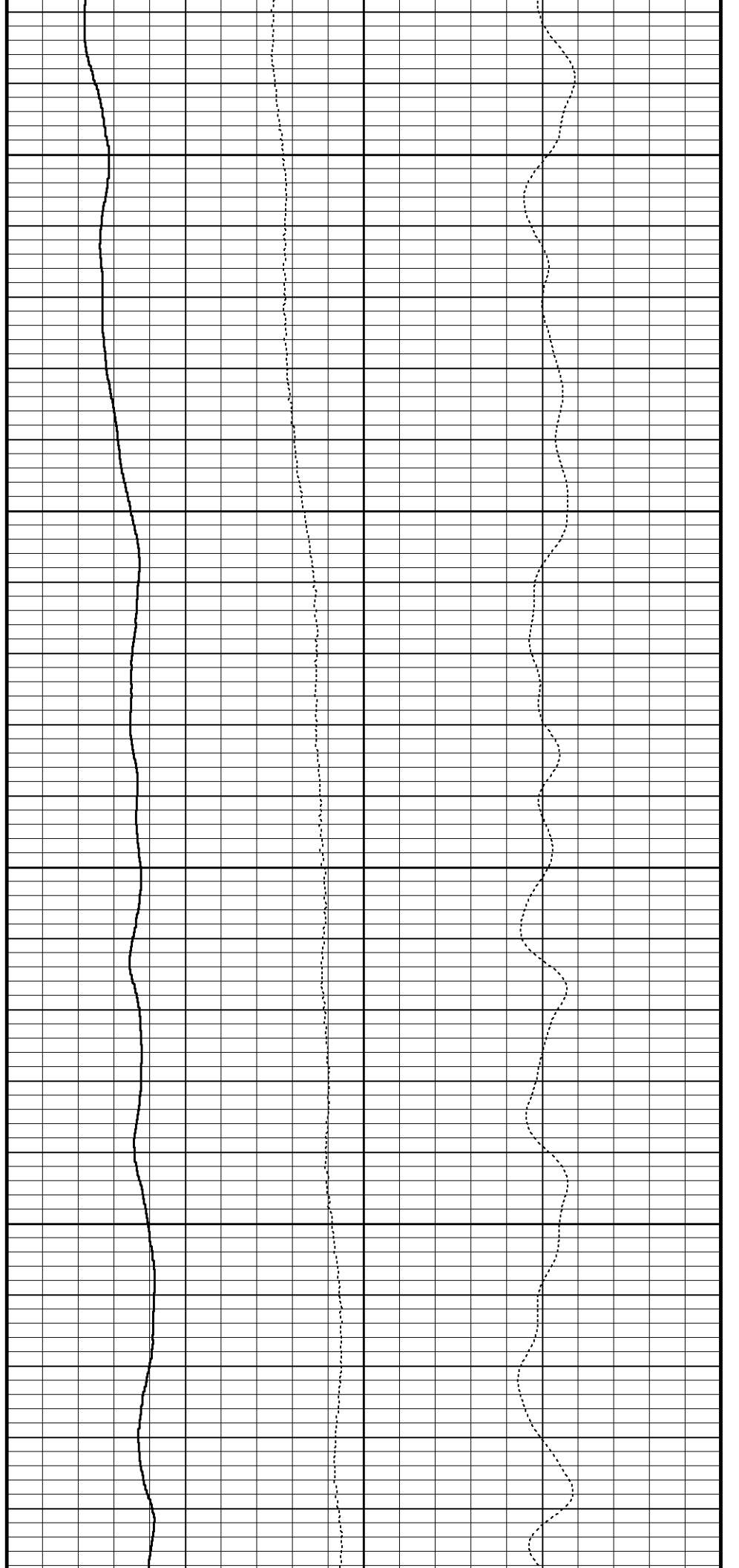
89°

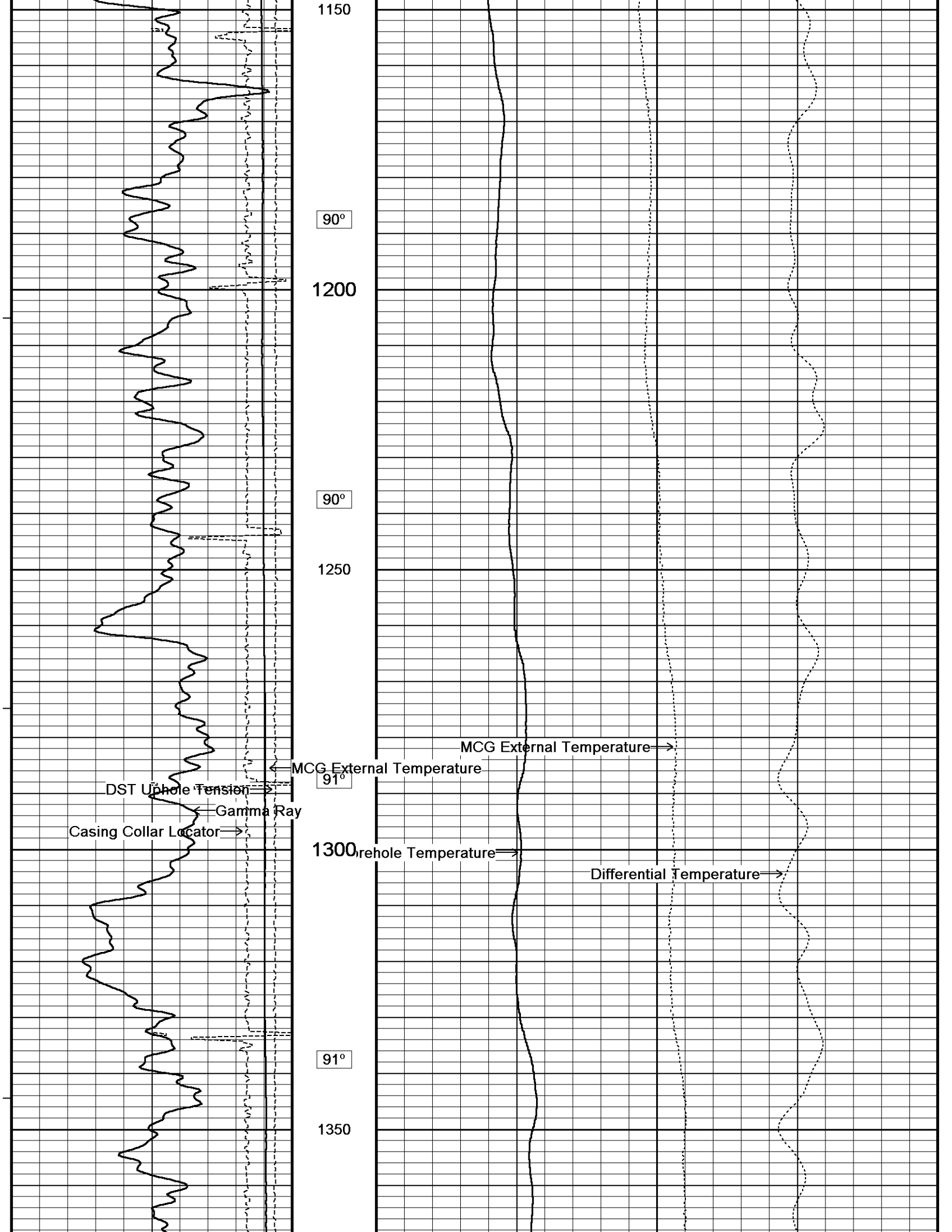
1050

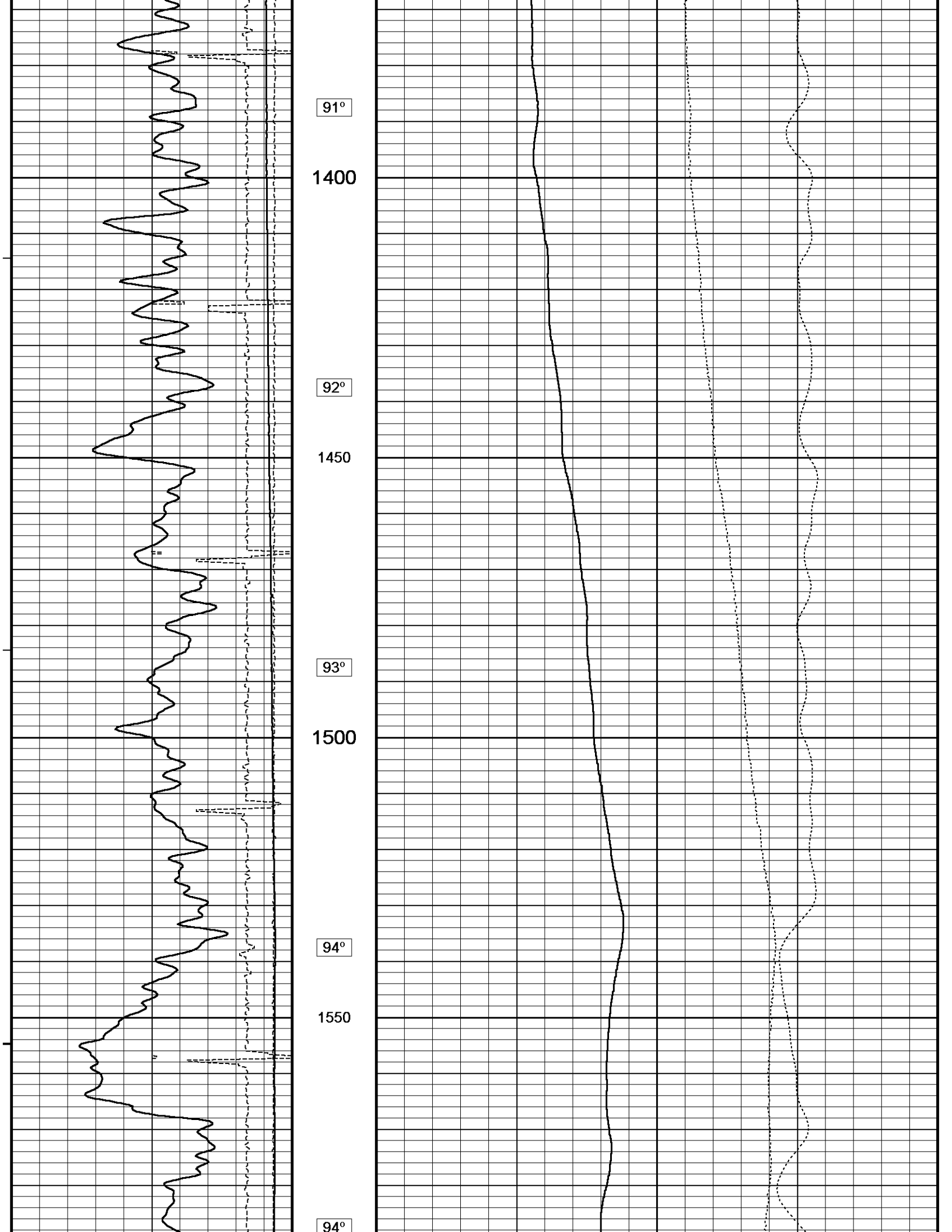
89°

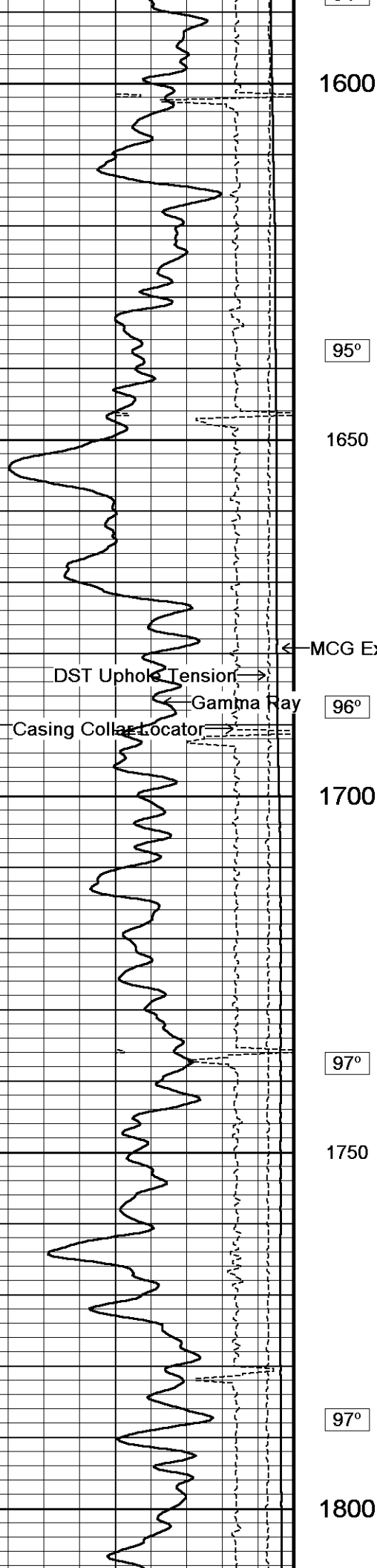
1100

89°





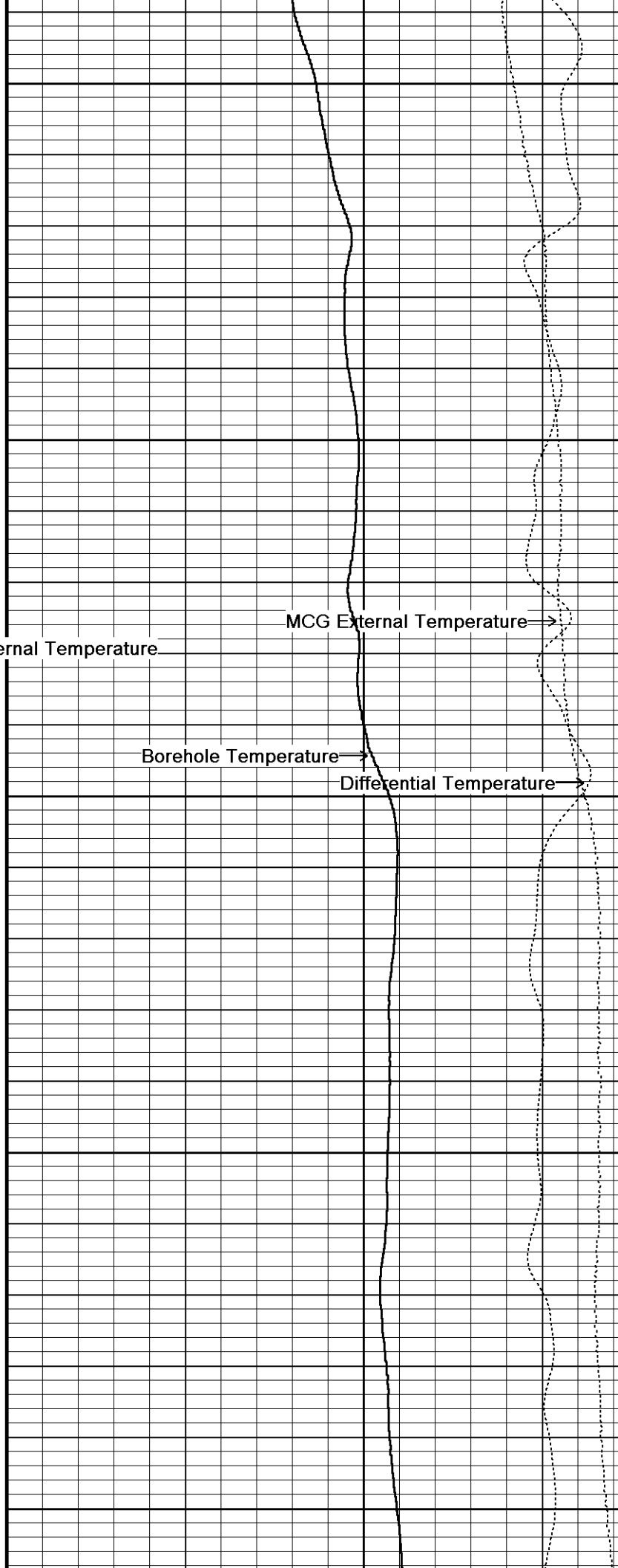




1600
95°
1650
96°
1700
97°
1750
97°
1800

DST Uphole Tension →
Gamma Ray →
Casing Collar Locator →

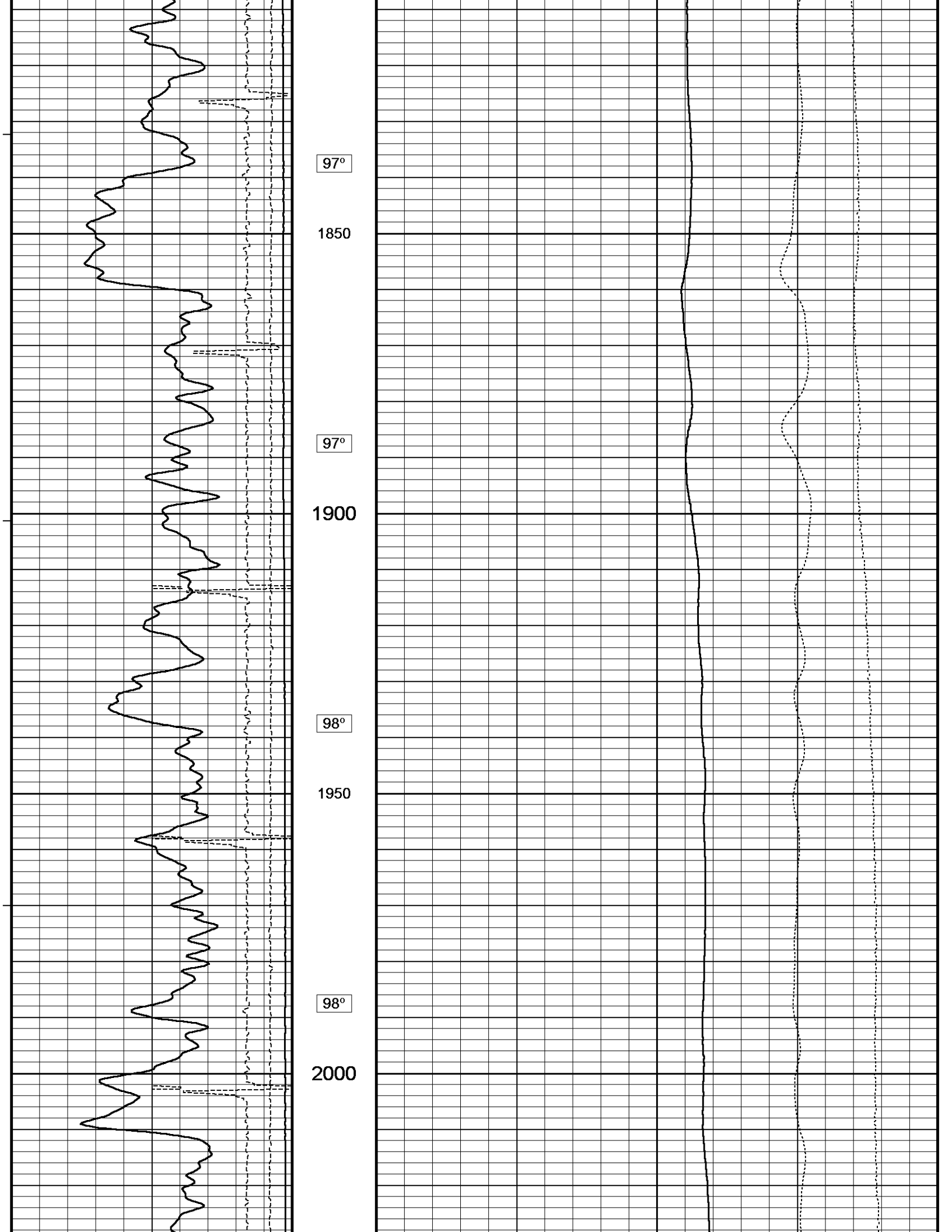
← MCG External Temperature

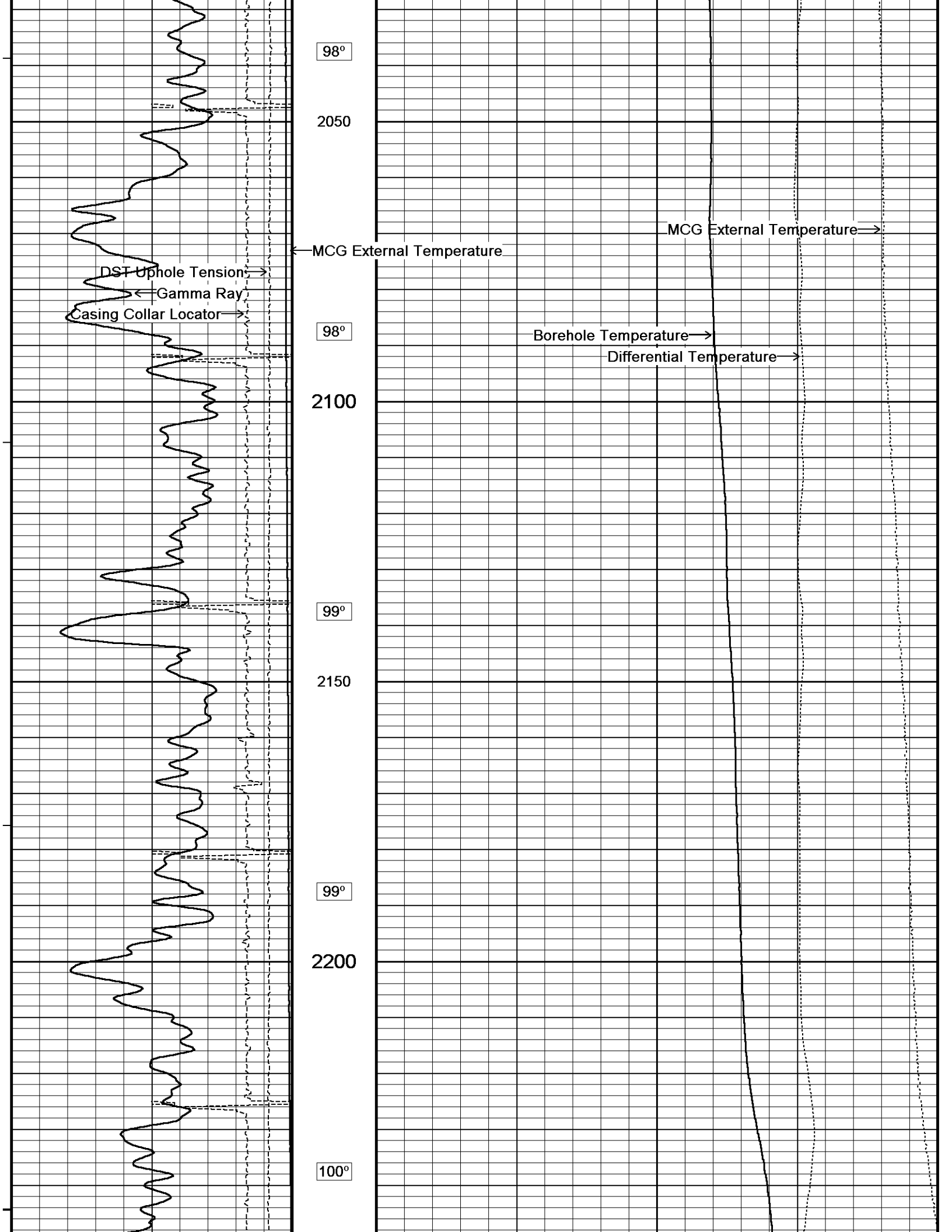


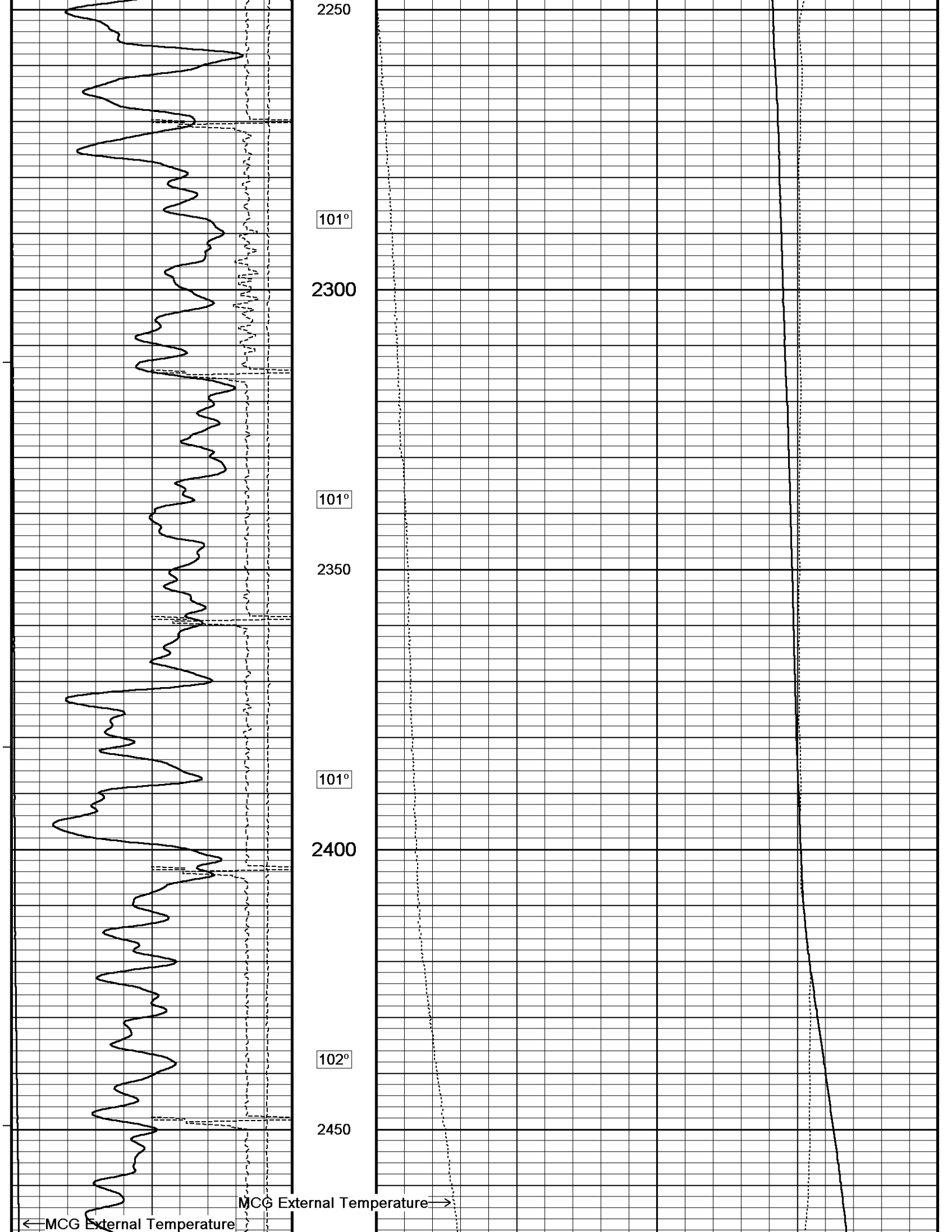
MCG External Temperature →

Borehole Temperature →

Differential Temperature →







DST Uphole Tension →
← Gamma Ray
Casing Collar Locator →

103°

2500

104°

2550

103°

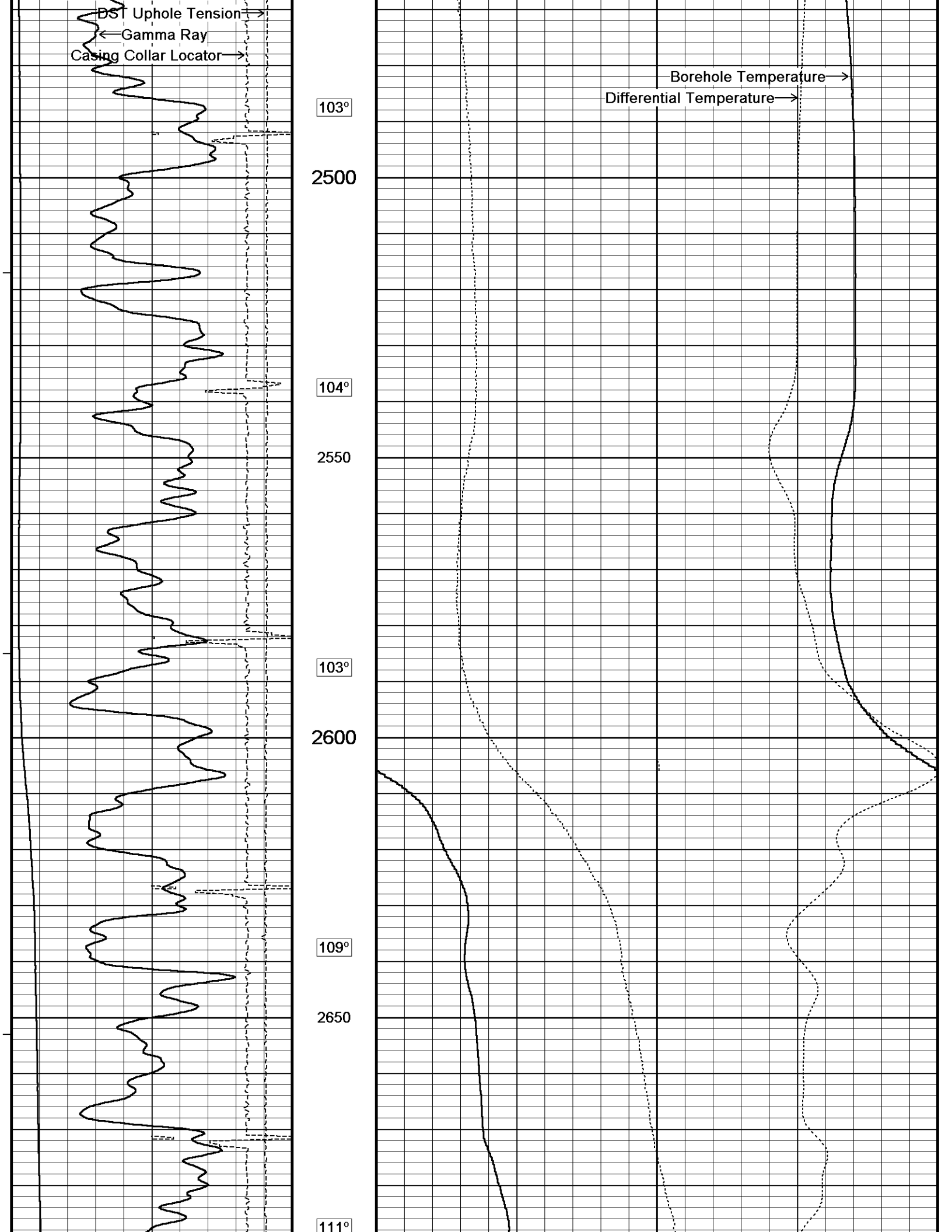
2600

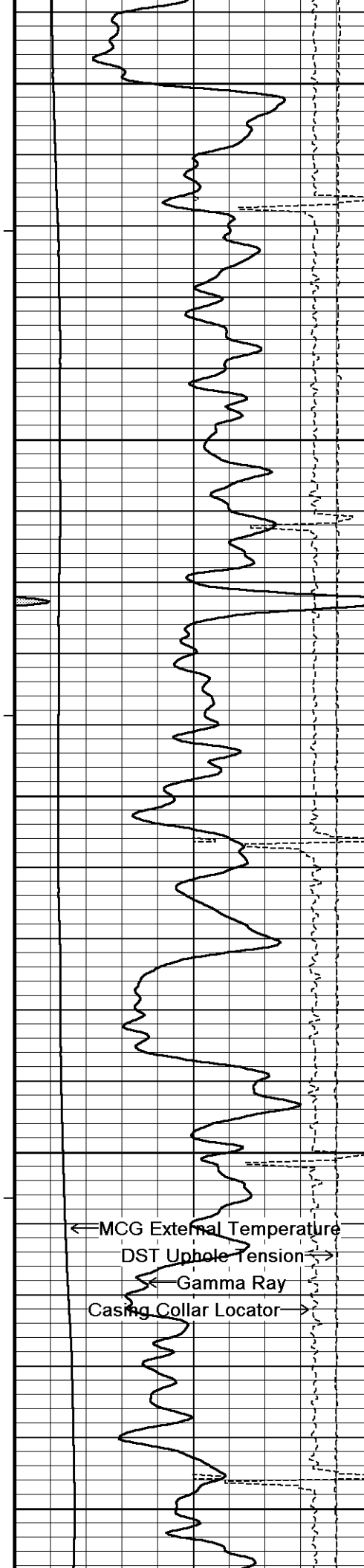
109°

2650

111°

Borehole Temperature →
Differential Temperature →





2700

113°

2750

113°

2800

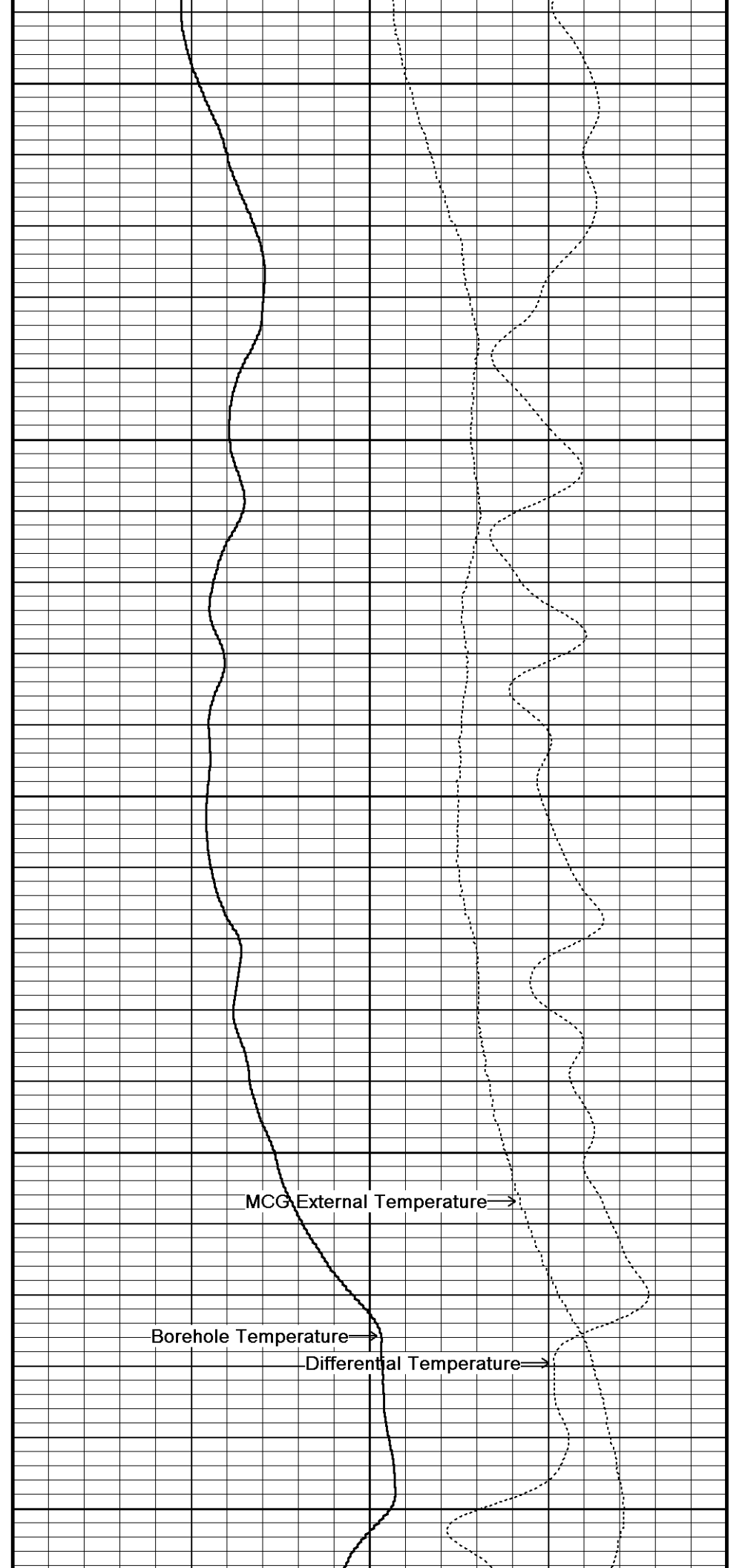
113°

2850

← MCG External Temperature
DST Uphole Tension →
← Gamma Ray
Casing Collar Locator →

117°

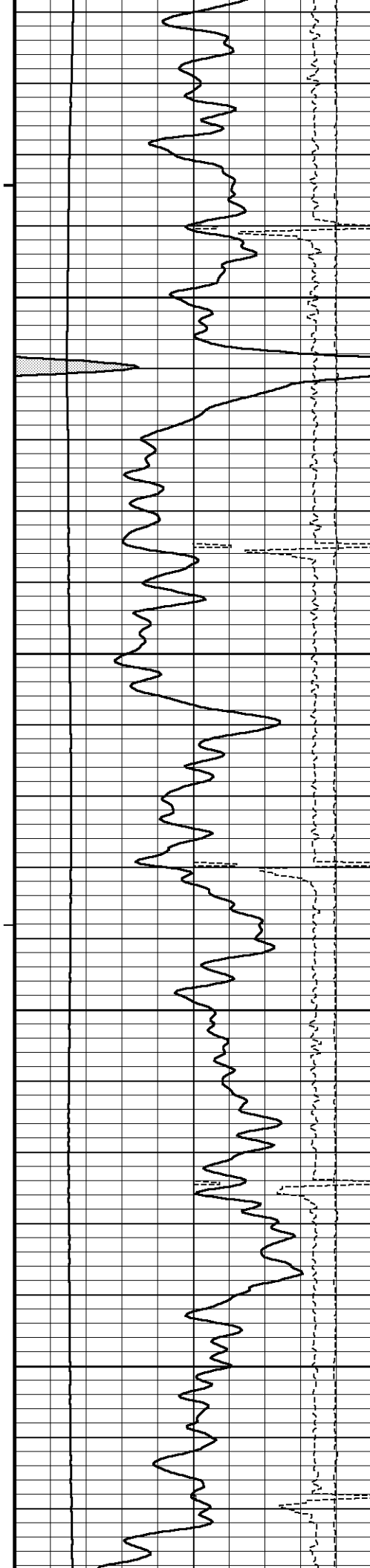
2900



MCG External Temperature →

Borehole Temperature →

Differential Temperature →



115°

2950

115°

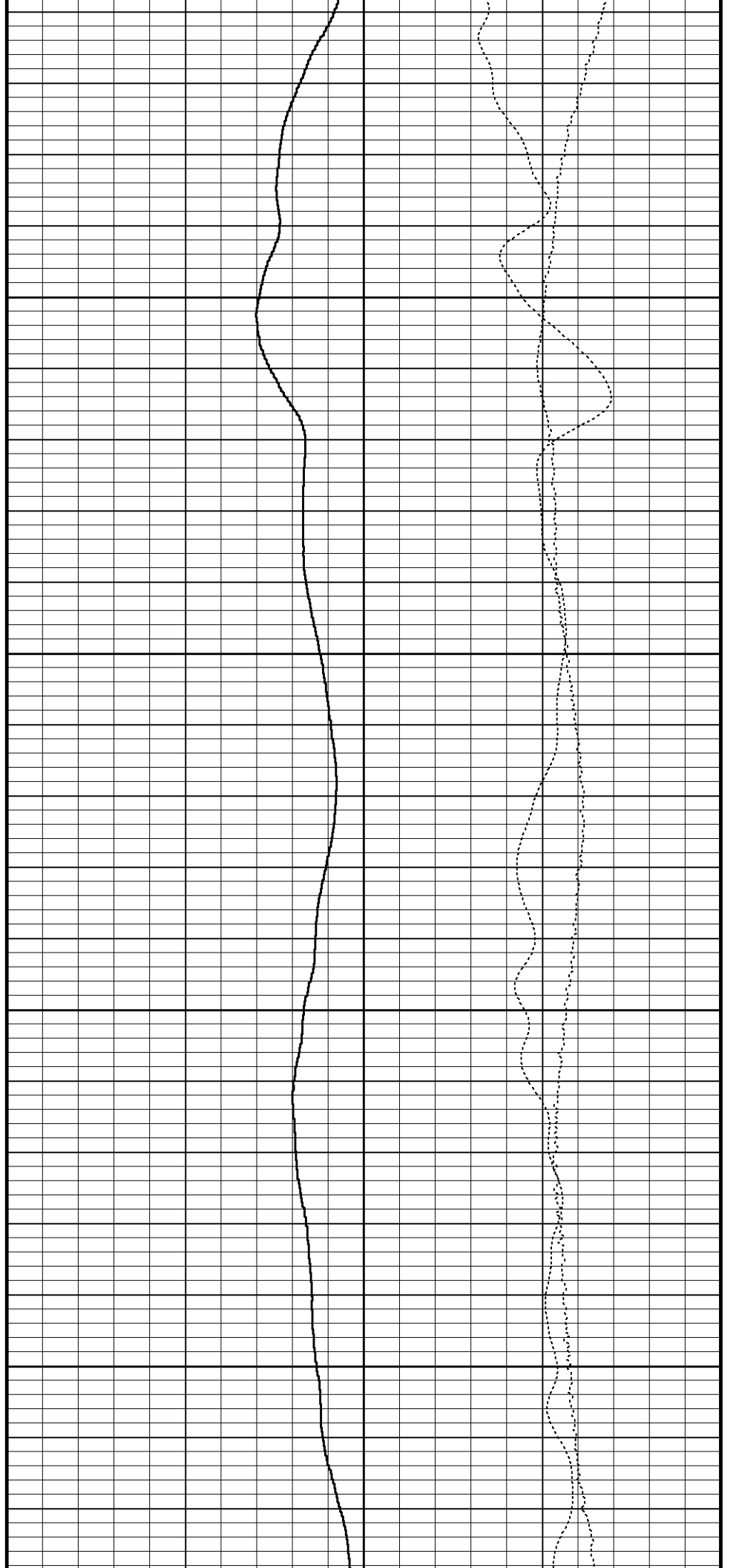
3000

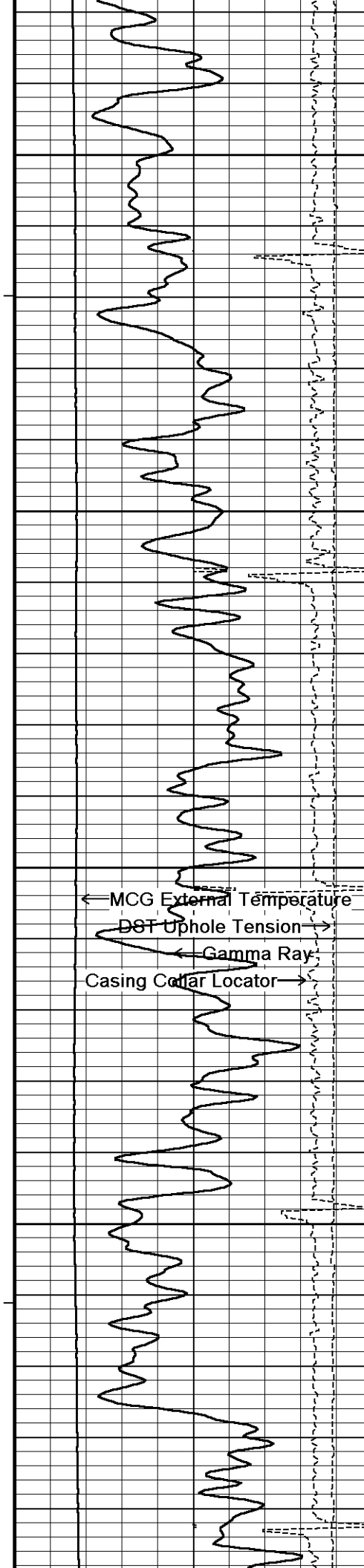
116°

3050

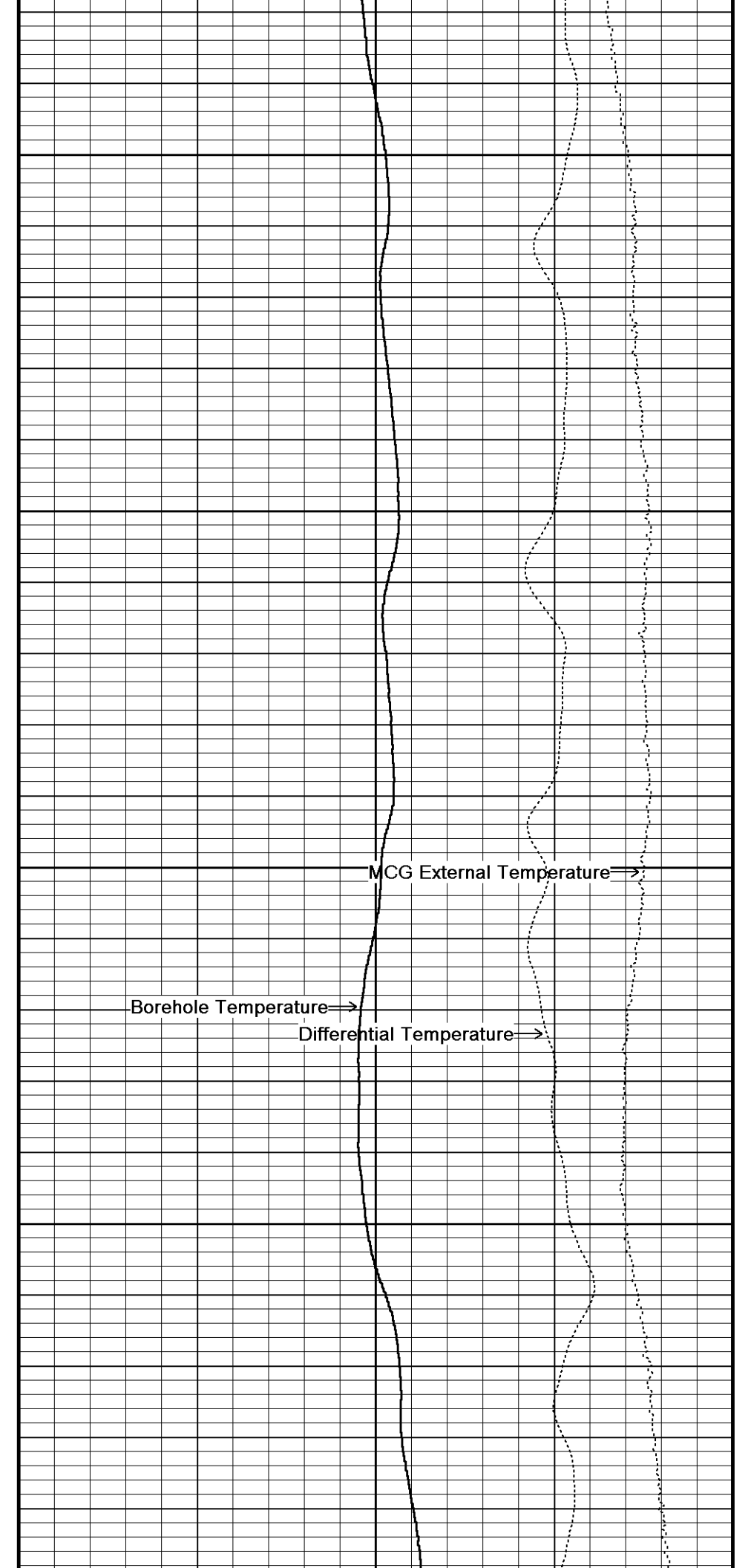
116°

3100

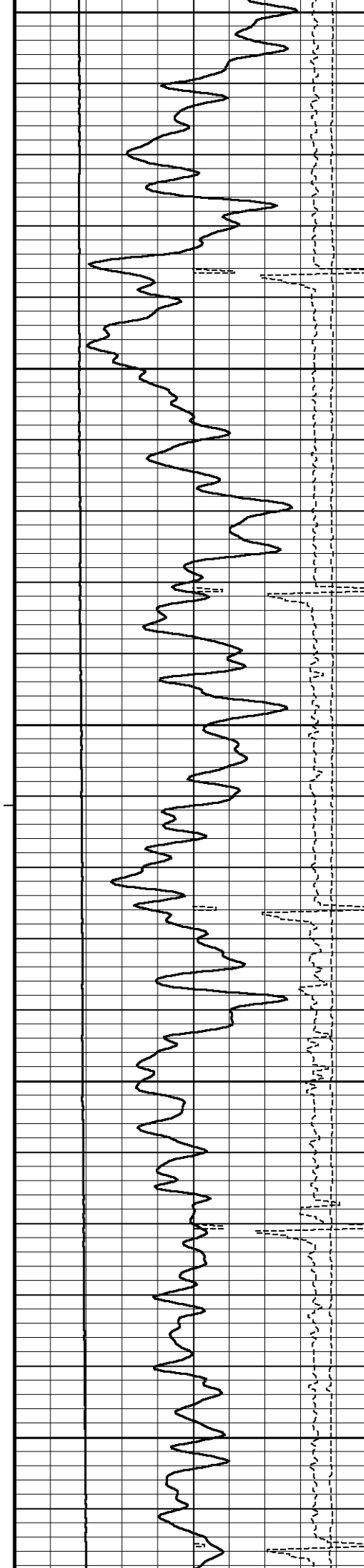




117°
3150
117°
3200
118°
3250
117°
3300
118°



MCG External Temperature →
Borehole Temperature →
Differential Temperature →



3350

118°

3400

119°

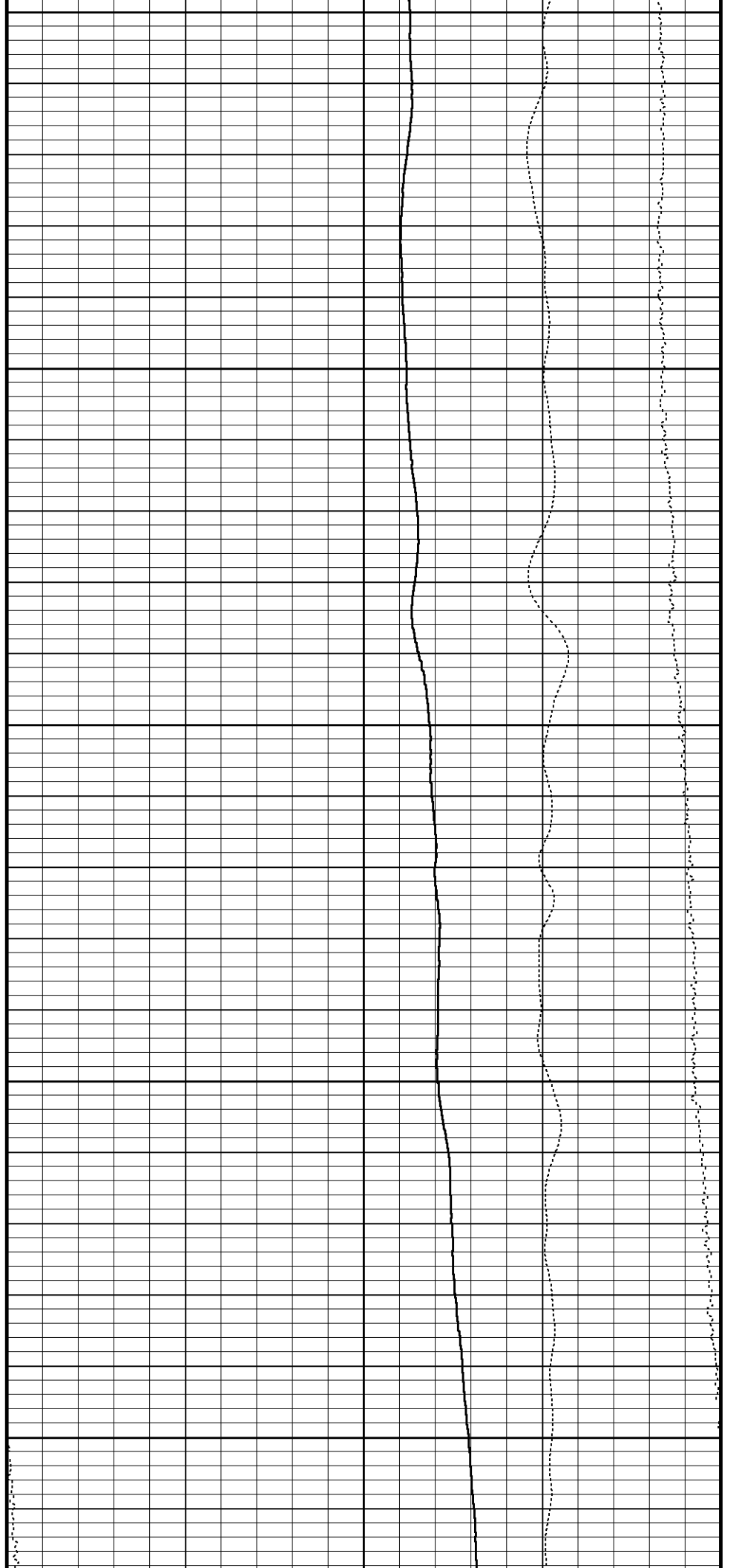
3450

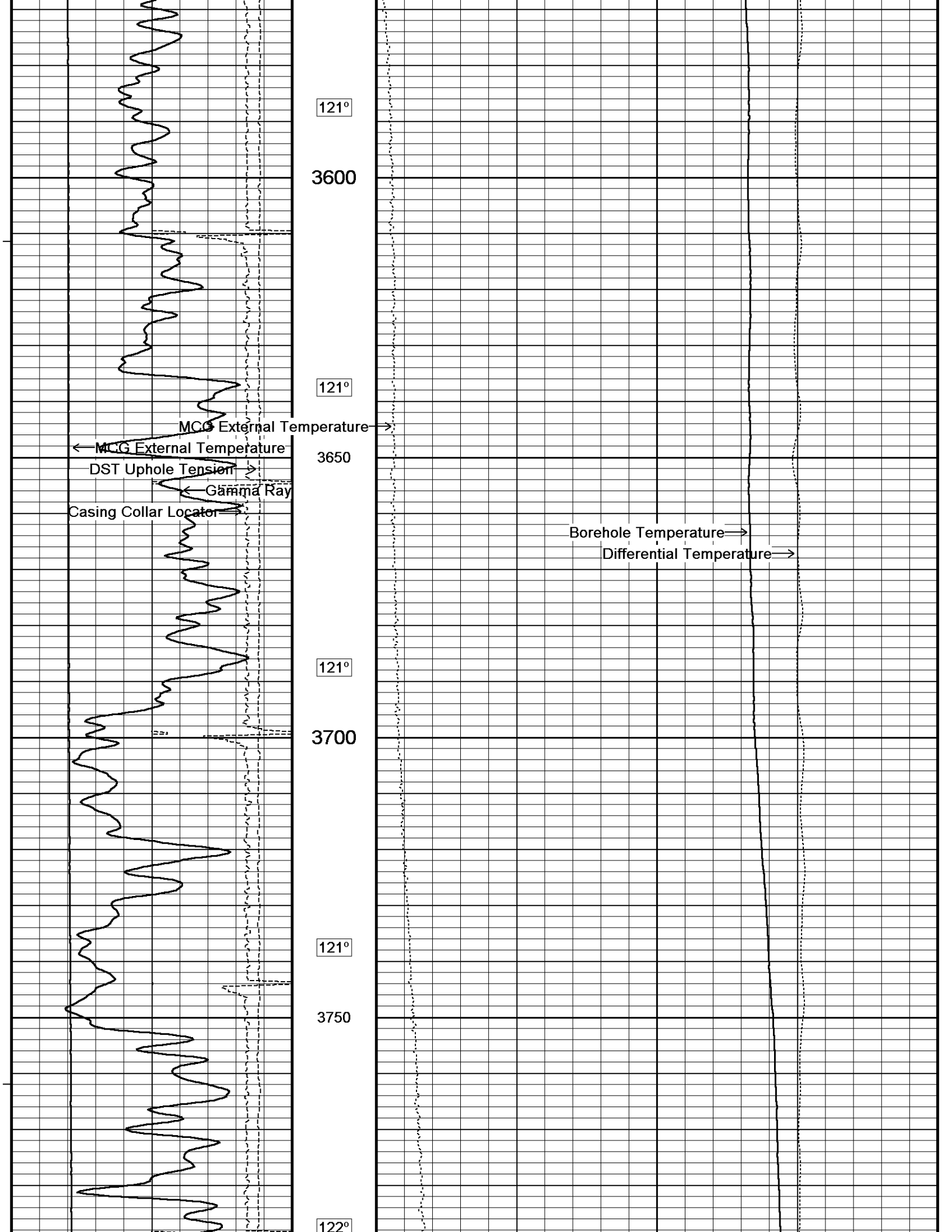
119°

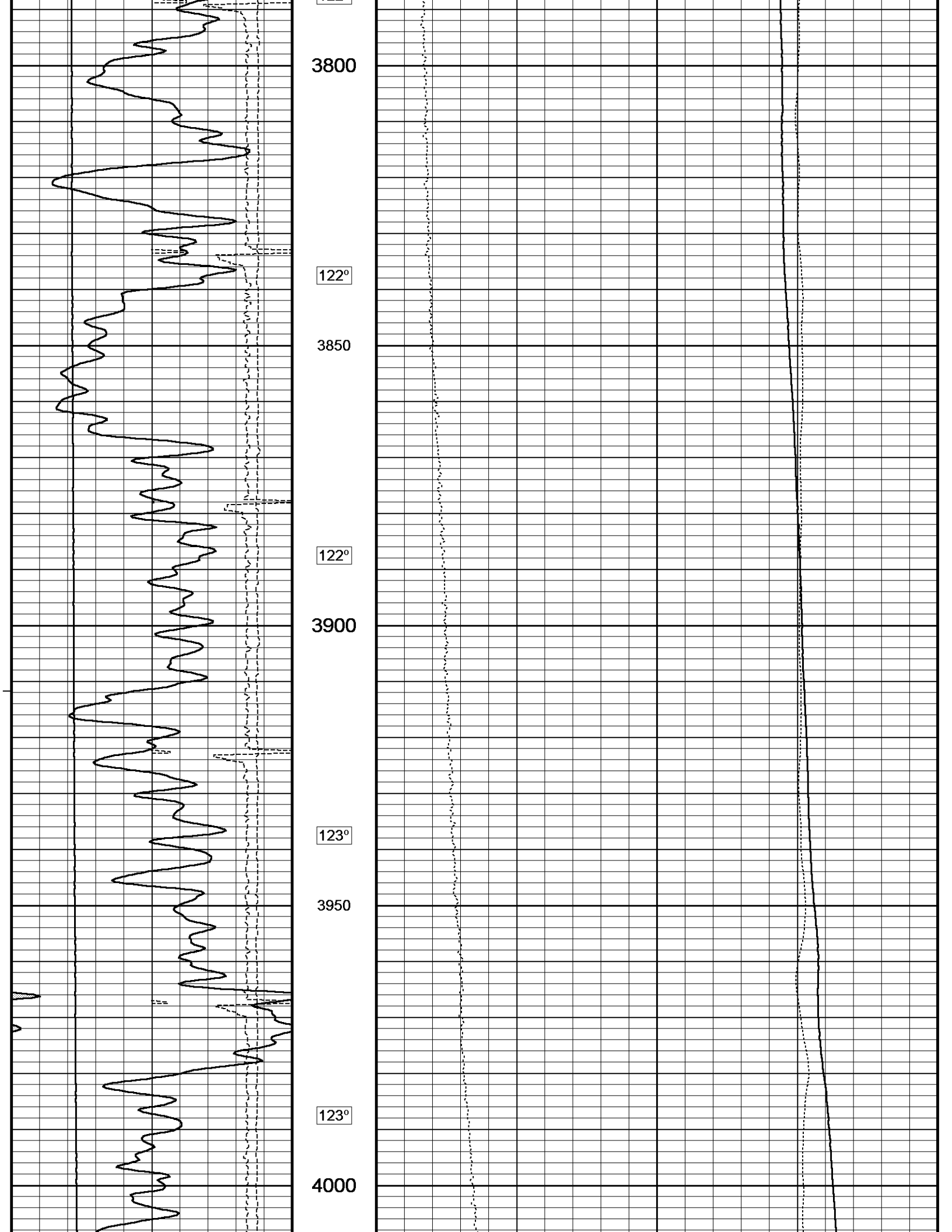
3500

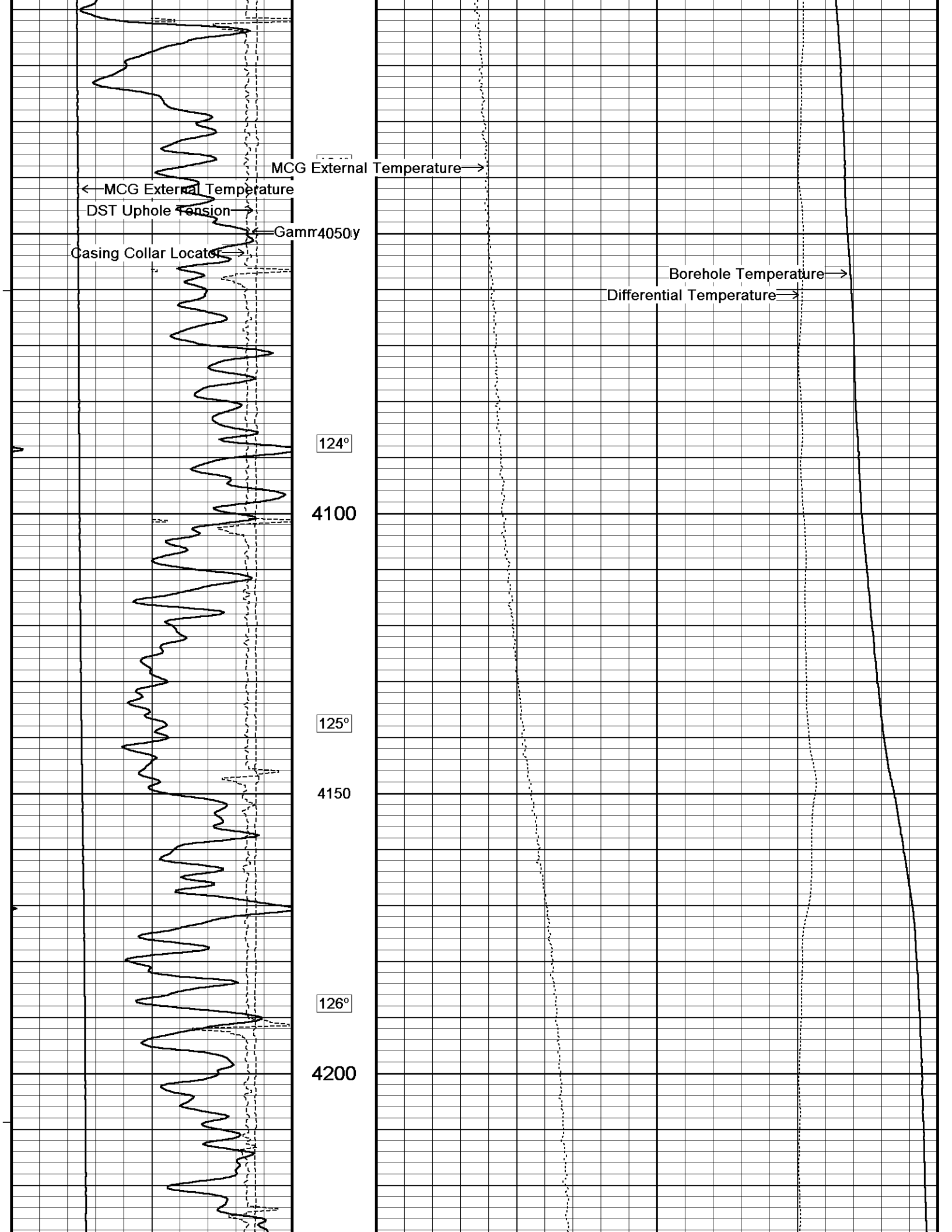
120°

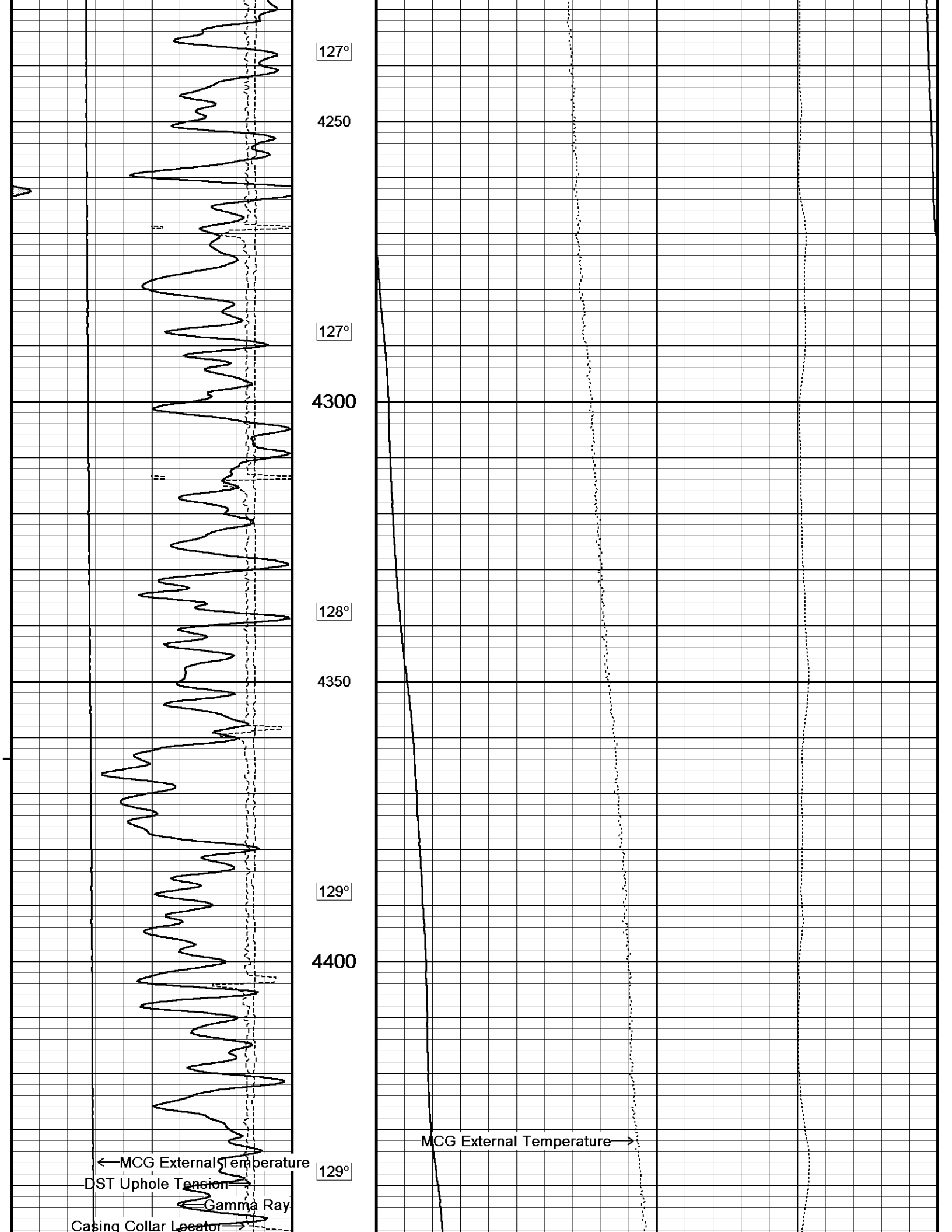
3550

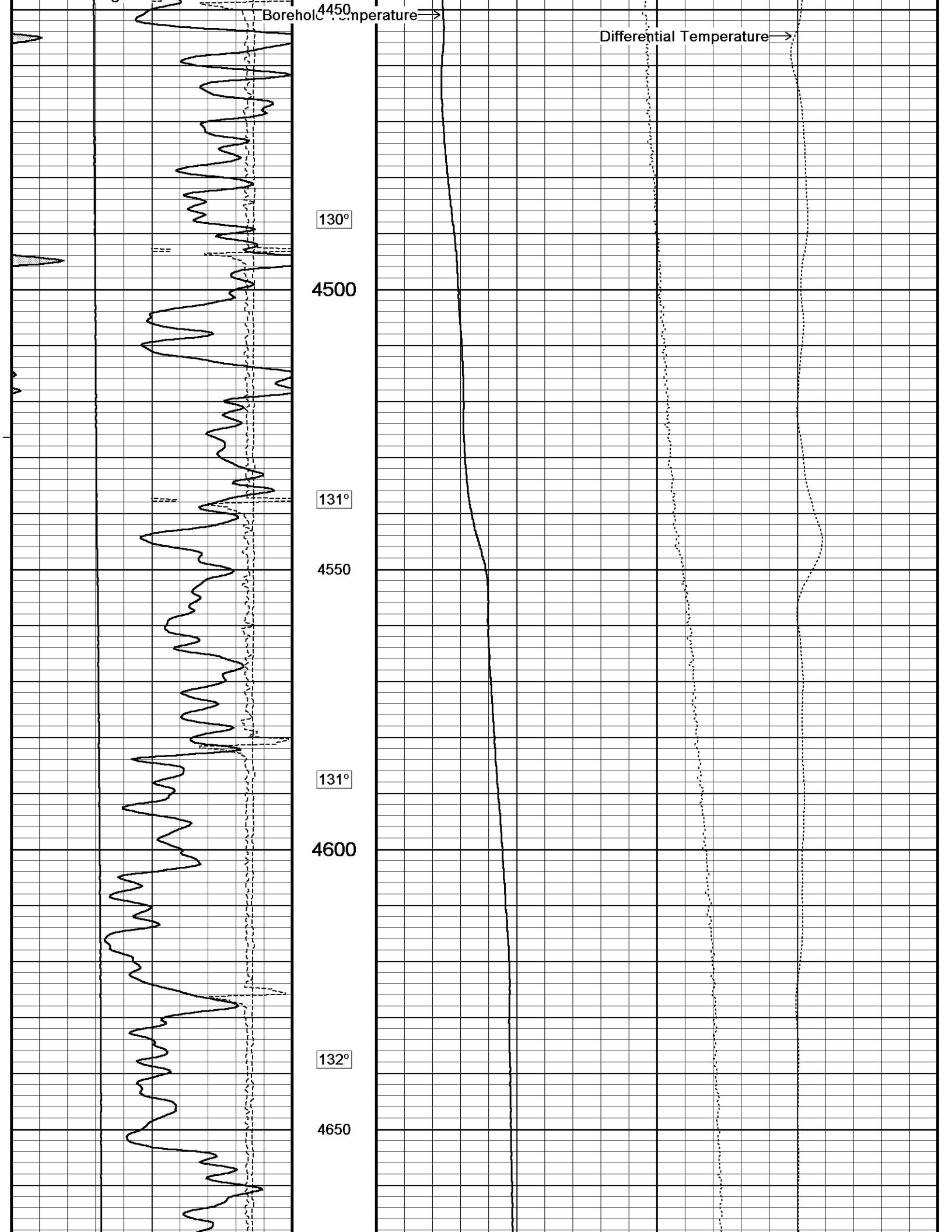


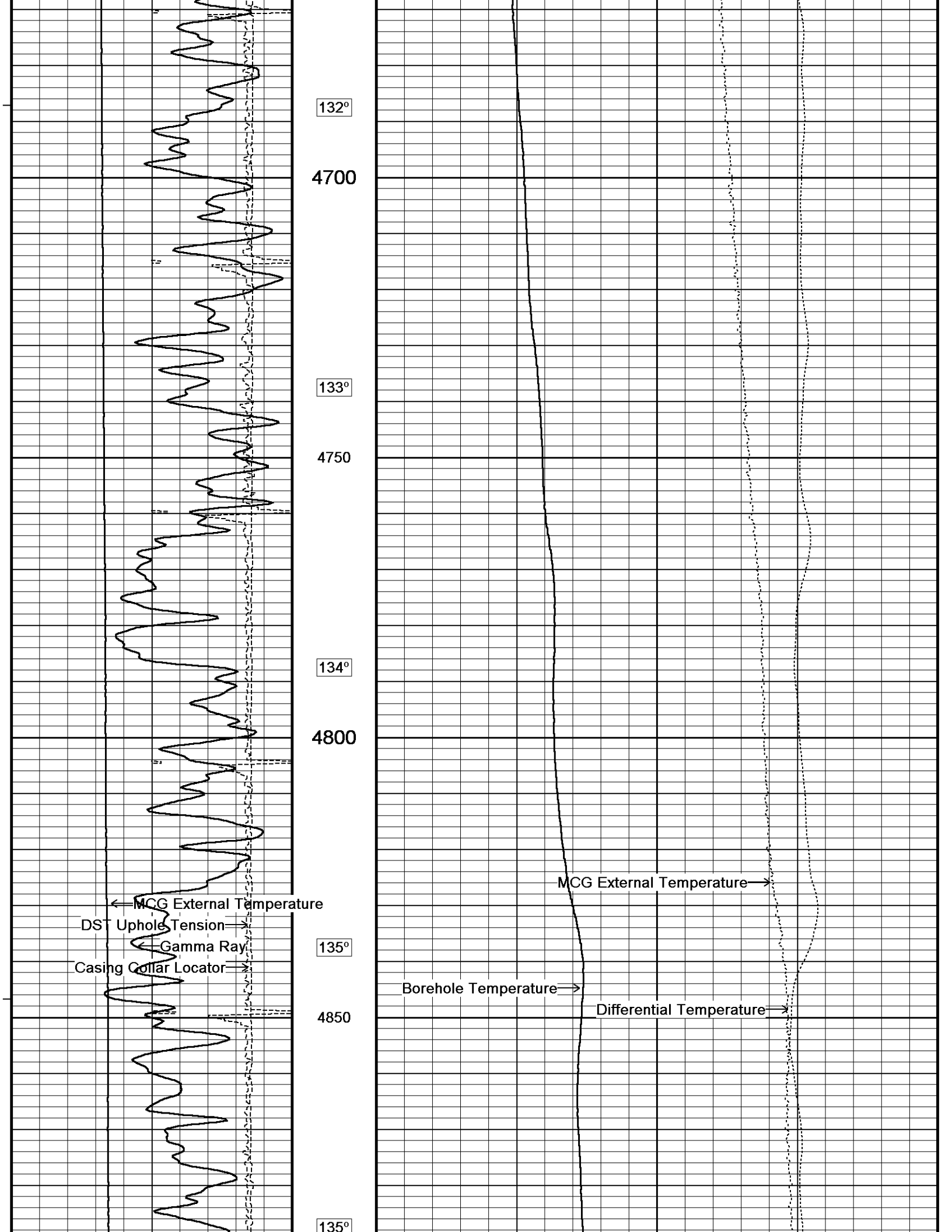


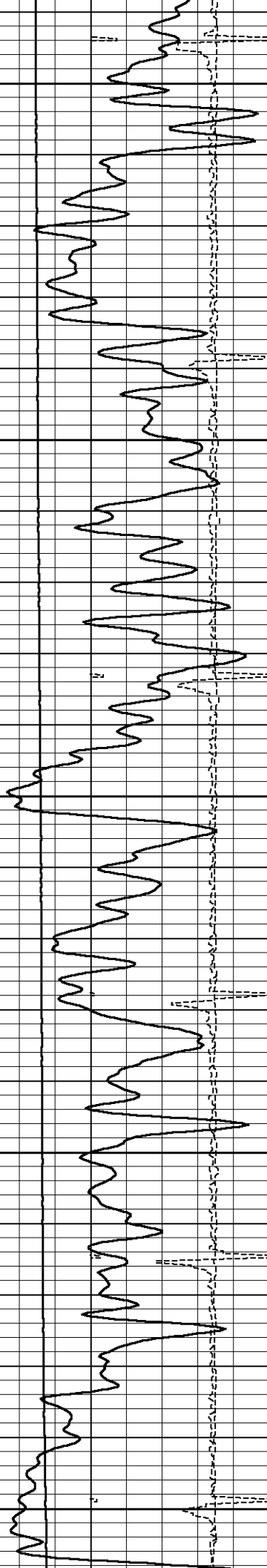












4900

135°

4950

136°

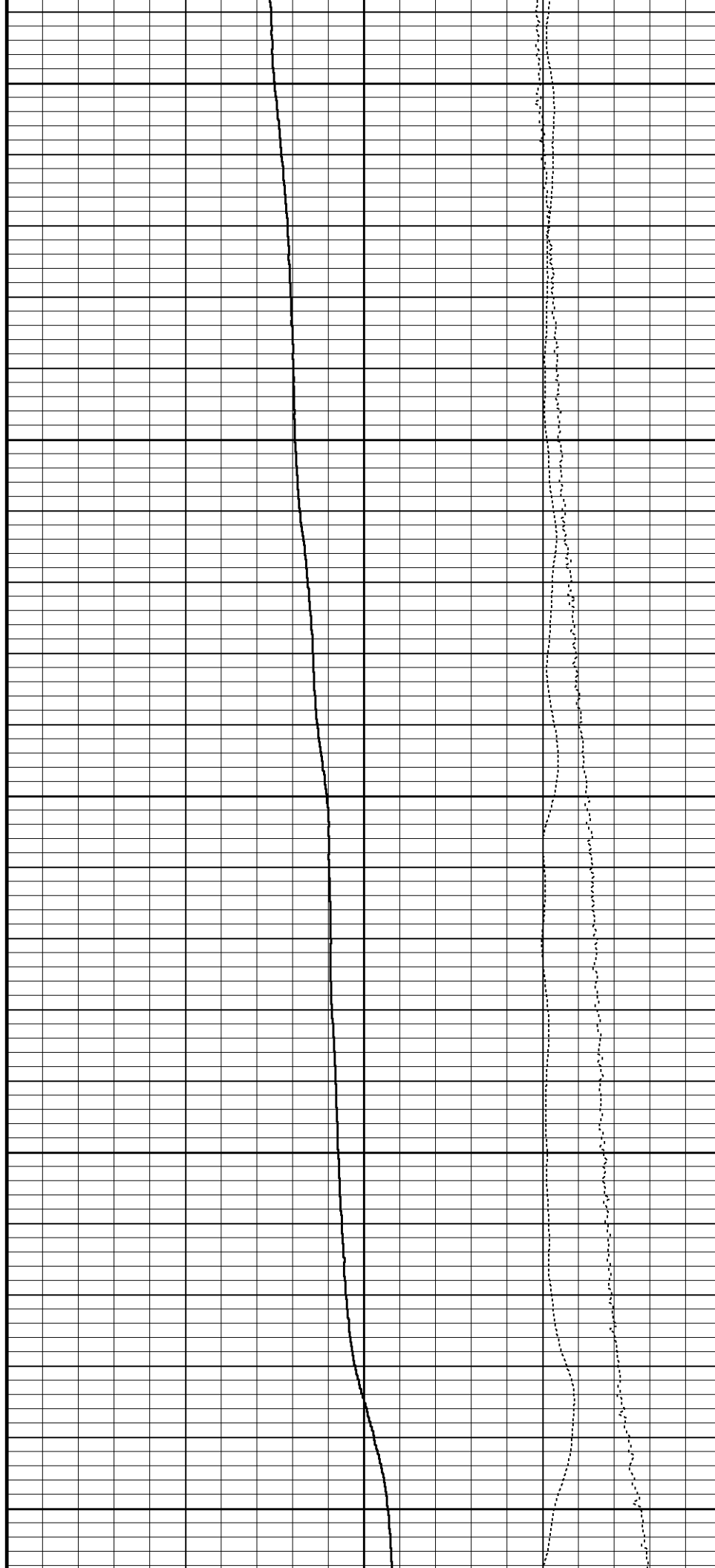
5000

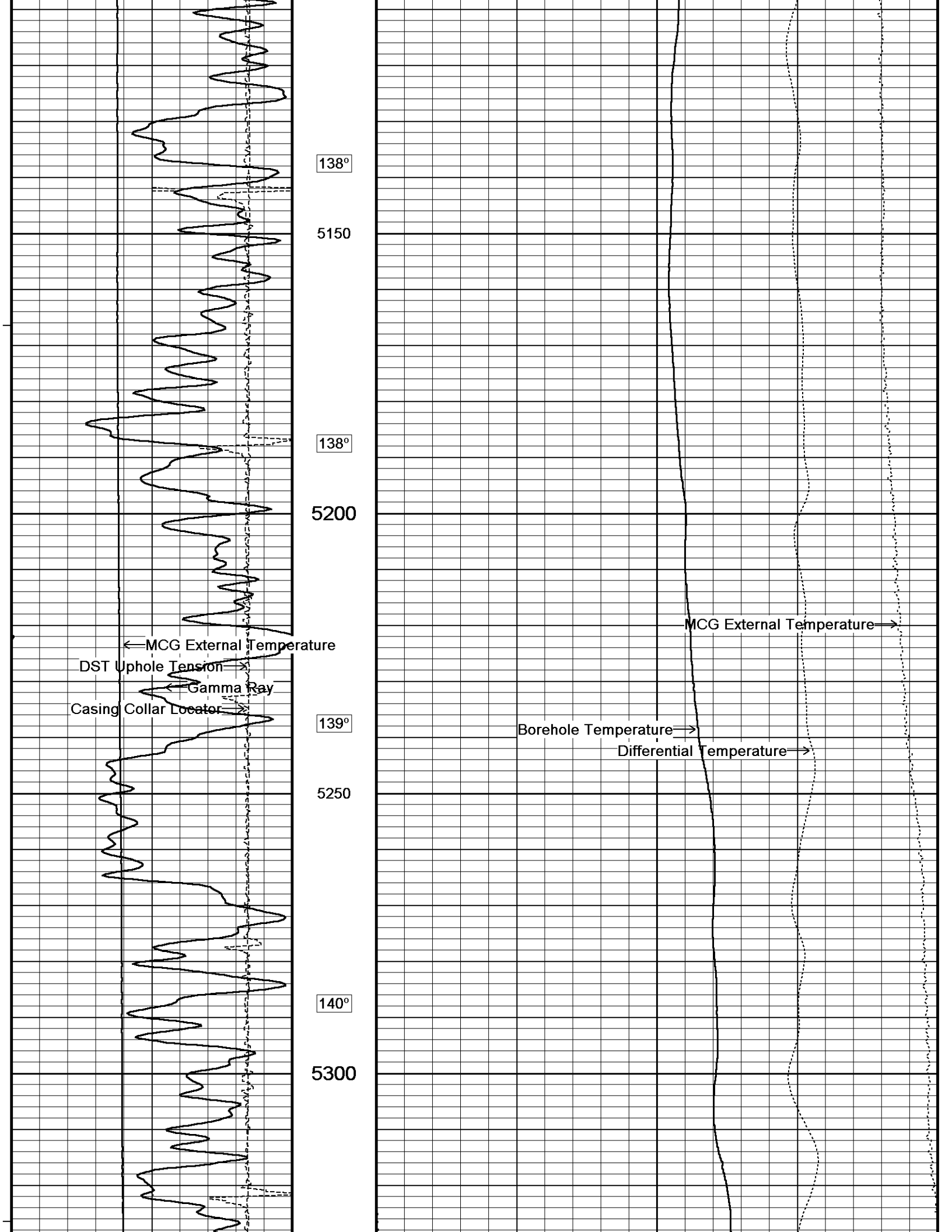
137°

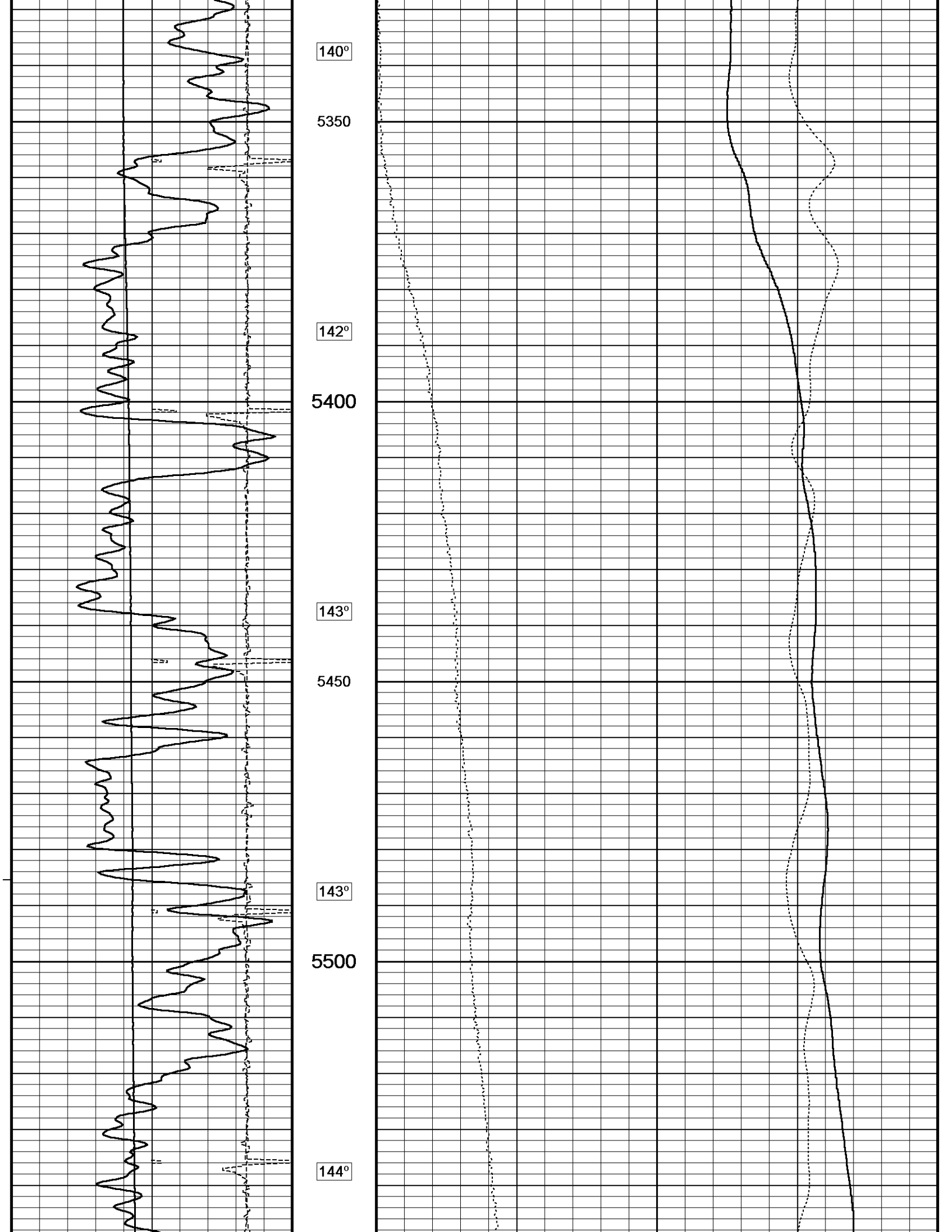
5050

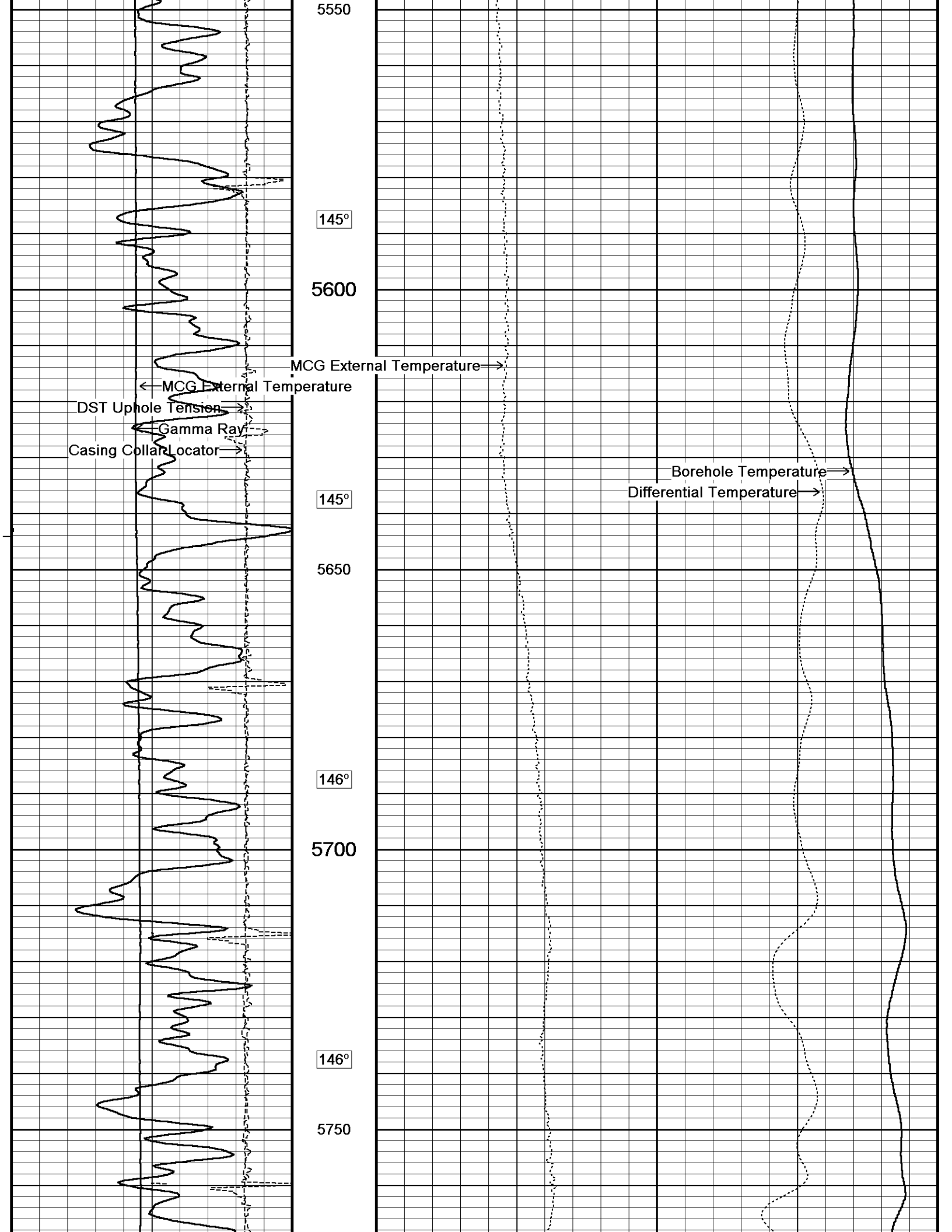
137°

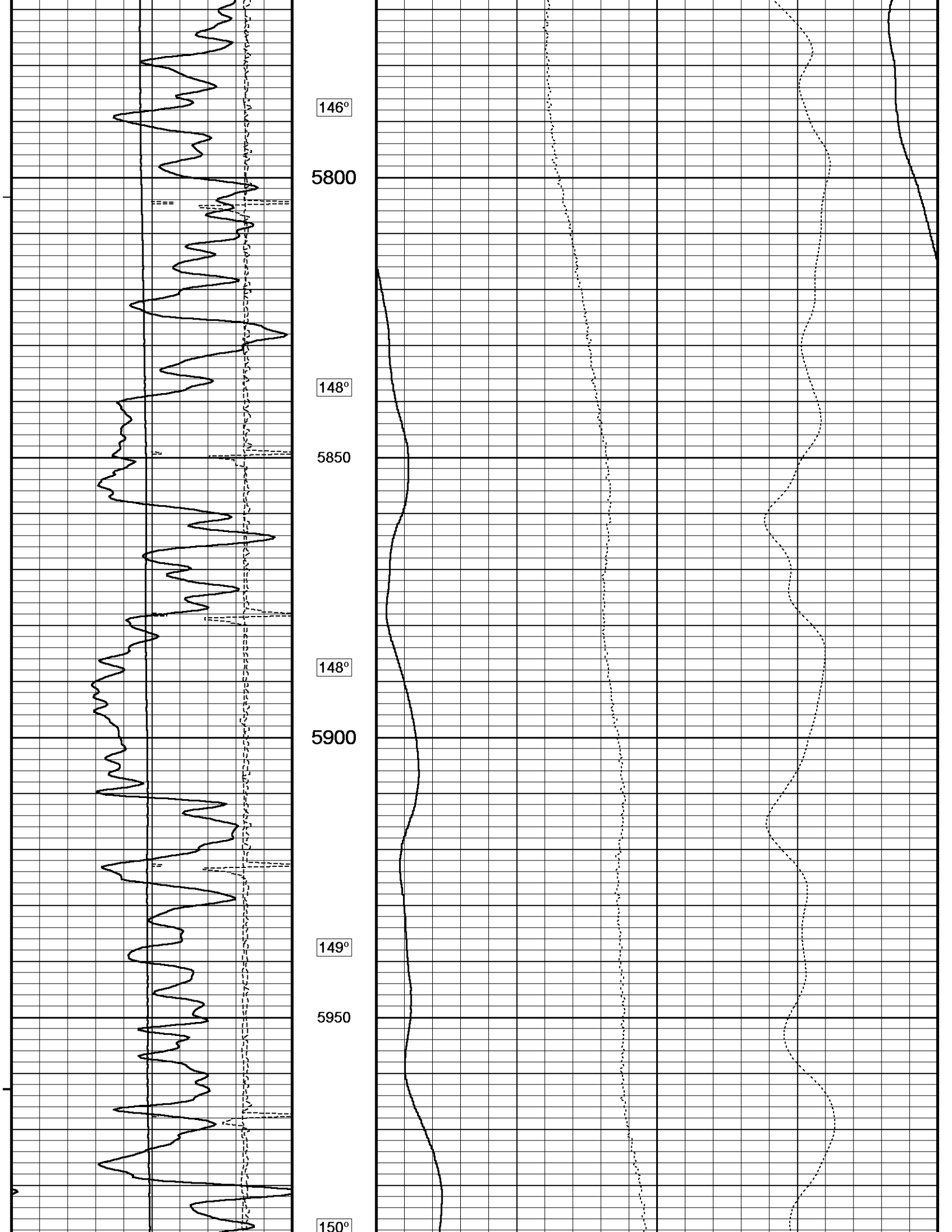
5100

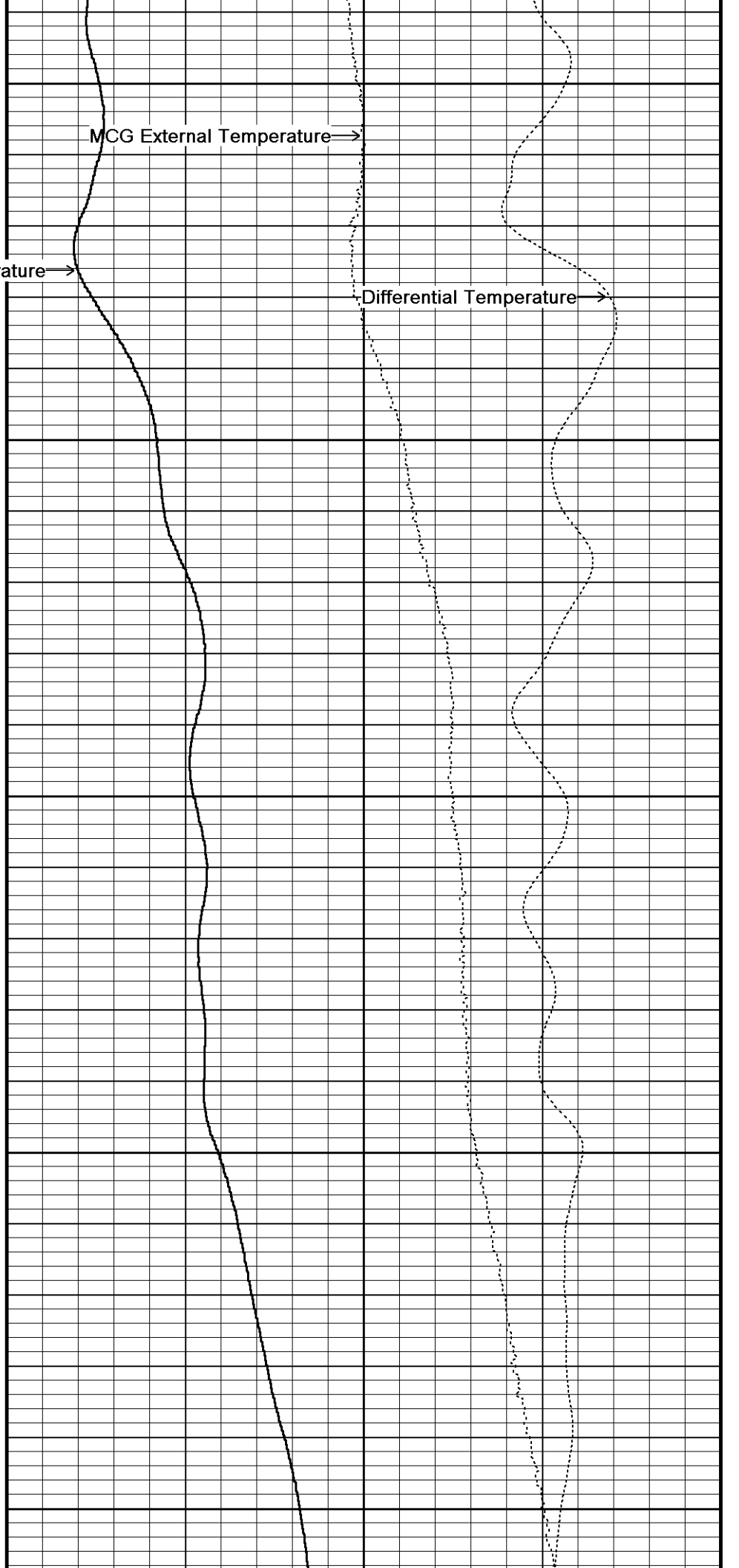
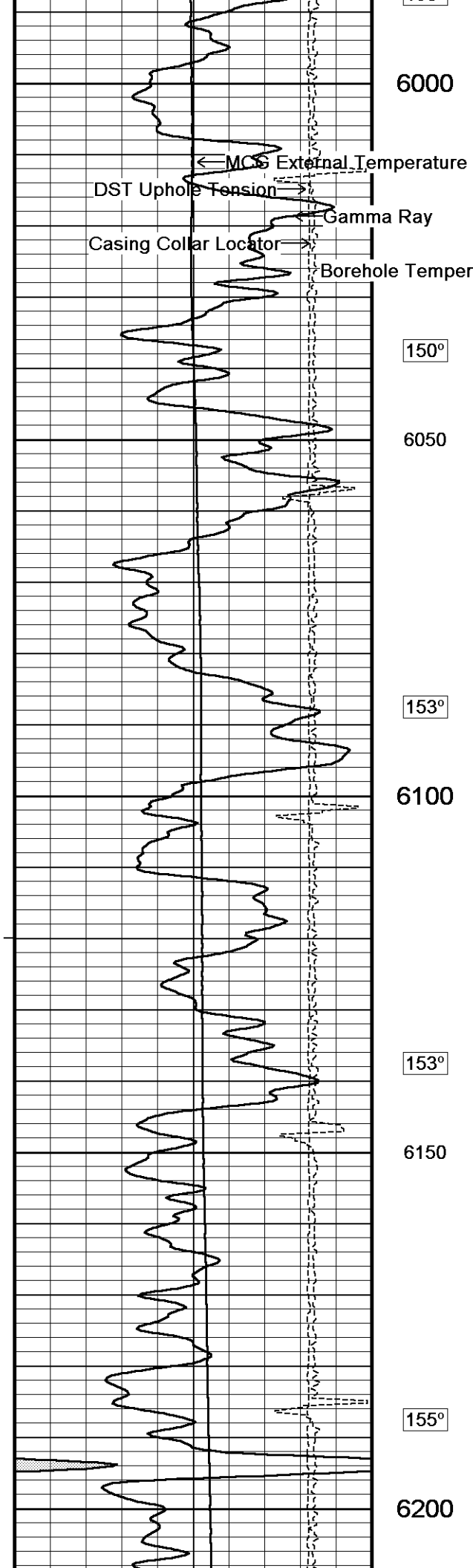


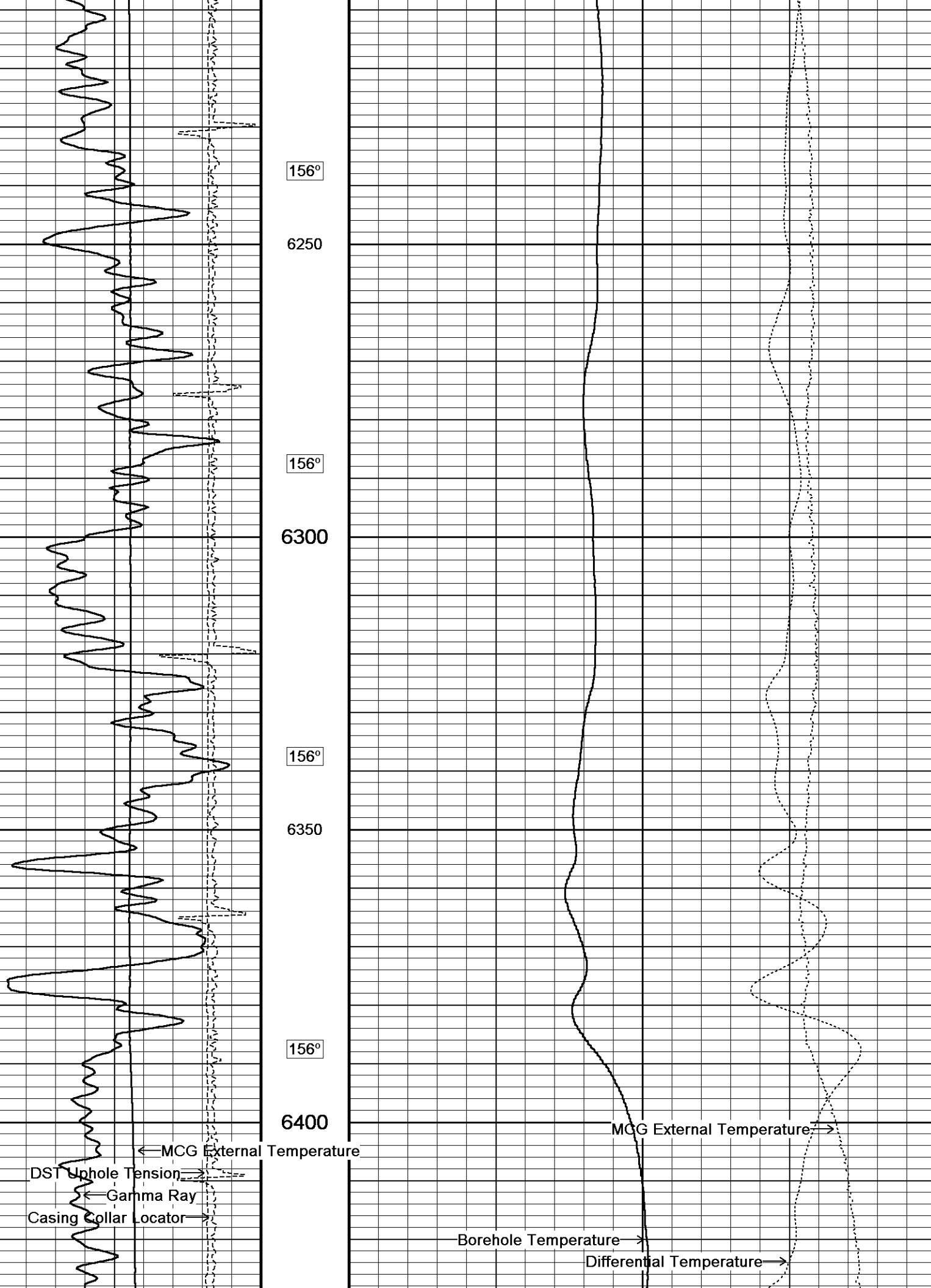












156°

6250

156°

6300

156°

6350

156°

6400

MCG External Temperature →

← MCG External Temperature

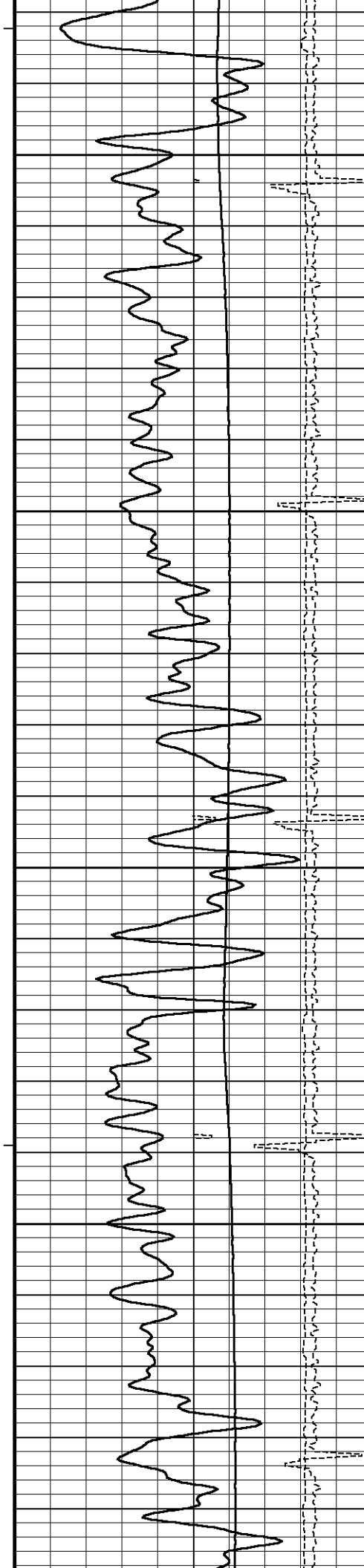
DST Uphole Tension →

← Gamma Ray

Casing Collar Locator →

Borehole Temperature →

Differential Temperature →



157°

6450

160°

6500

160°

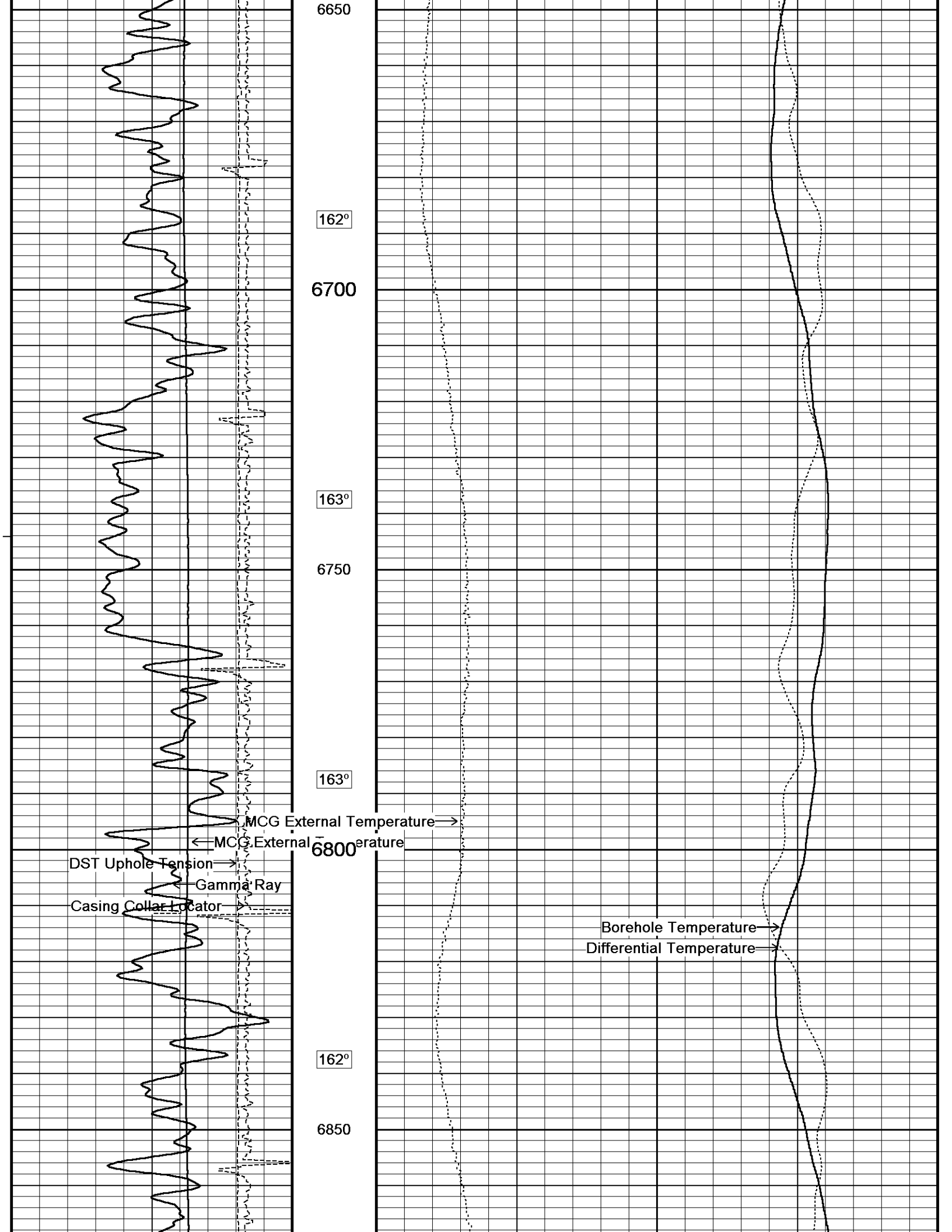
6550

160°

6600

162°





6650

162°

6700

163°

6750

163°

MCG External Temperature →

← MCG External Temperature

6800

DST Uphole Tension →

Gamma Ray

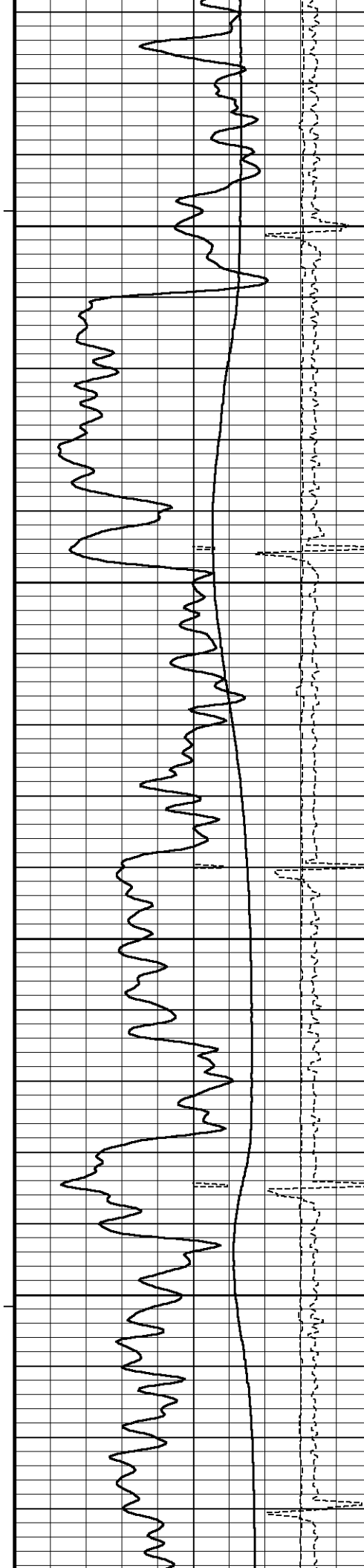
Casing Collar Locator →

Borehole Temperature →

Differential Temperature →

162°

6850



164°

6900

156°

6950

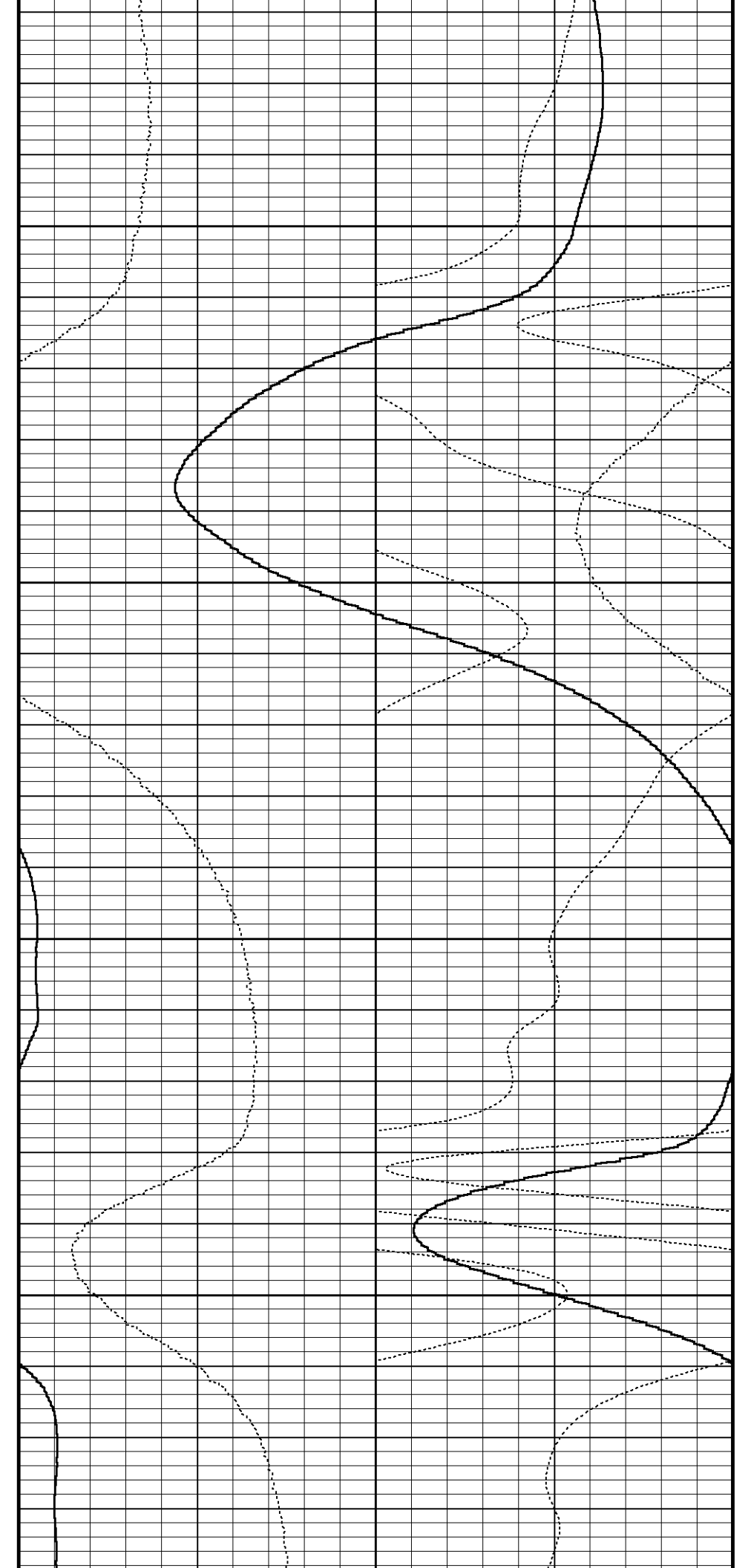
165°

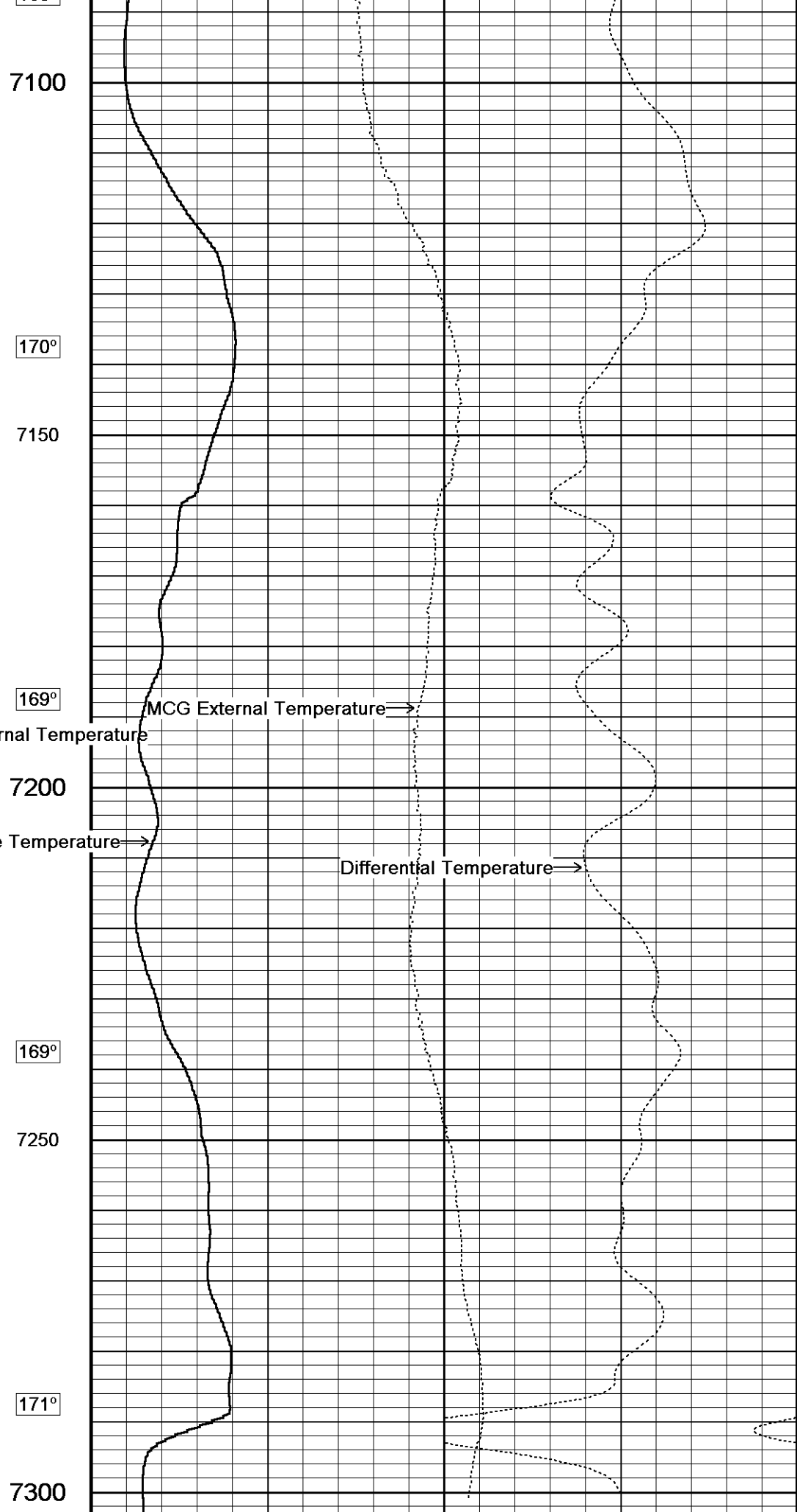
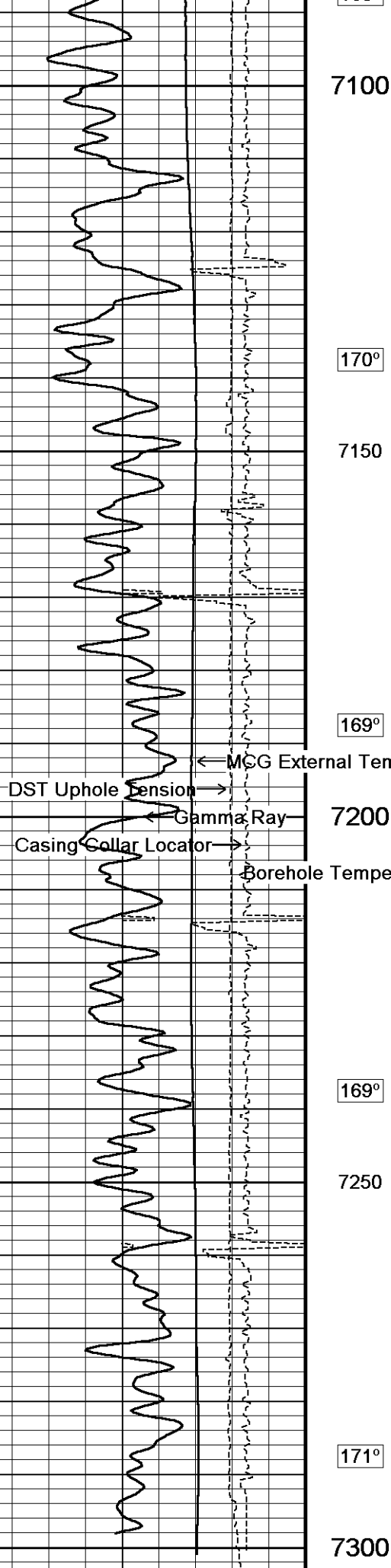
7000

163°

7050

168°





7100

170°

7150

169°

7200

169°

7250

171°

7300

MCG External Temperature →

← MCG External Temperature

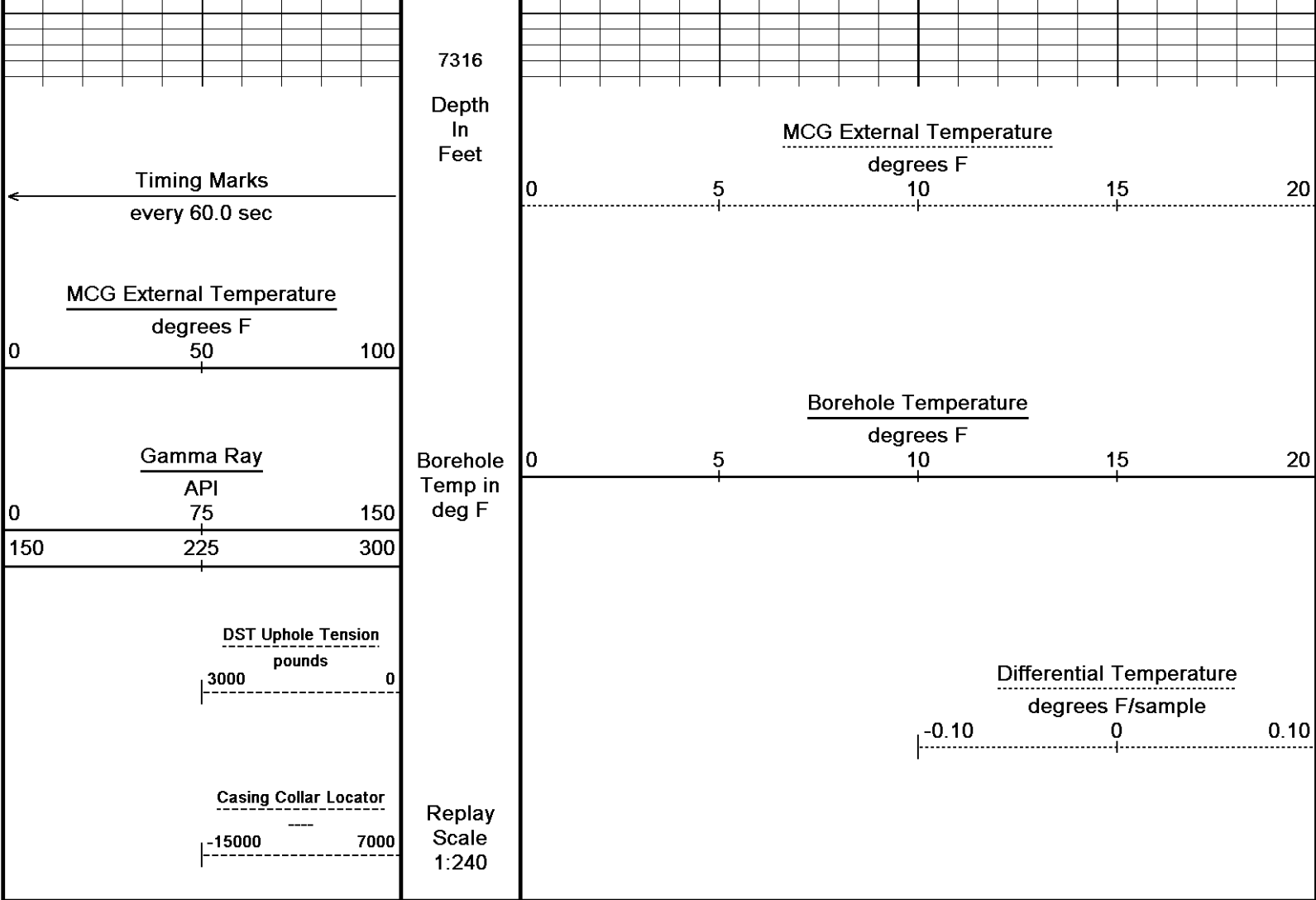
DST Uphole Tension →

← Gamma Ray

Casing Collar Locator →

Borehole Temperature →

Differential Temperature →



Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\LOGS\Bill Barrett\GGU Daley 24C-19-691 Temp\MAIN.dta
 System Versions: Logged with 11.03.3657 Plotted with 11.03.3657

Plotted on 11-JUN-2011 13:05
 Recorded on 11-JUN-2011 11:38

↑ 5 INCH MAIN LOG ↑

BEFORE SURVEY CALIBRATION
 C:\LOGS\Bill Barrett\GGU Daley 24C-19-691 Temp\MAIN.dta

General Constants All 000 Last Edited on 11-JUN-2011,11:18

General Parameters		
Mud Resistivity	1.000	ohm-metres
Mud Resistivity Temperature	72.000	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	None	
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	

Down-hole Tension Calibration SMS 0 Field Calibration on 06-JUN-2011 09:58

Reading No	Measured	Calibrated (lbs)
------------	----------	------------------

1	15913.24	0.00
2	16507.45	370.00

Gamma Calibration MCG-D.A 287			Field Calibration on 11-JUN-2011,11:18
	Measured	Calibrated (API)	
Background	142	97	
Calibrator (Gross)	1479	1009	
Calibrator (Net)	1337	912	

Gamma Constants MCG-D.A 287			Last Edited on 11-JUN-2011,11:18
Gamma Calibrator Number	GRC-072		
Mud Density	1.00	gm/cc	
Caliper Source for Processing	Bit Size		
Tool Position	Centred		
Concentration of KCl	0.00	kppm	

SP Calibration MCG-D.A 287			Field Calibration on 07-JUN-2011,13:26
	Measured	Calibrated (mV)	
Reference 1	100.9	100.0	
Reference 2	-100.2	-100.0	

High Resolution Temperature Calibration MCG-D.A 287			Field Calibration on 11-JUN-2011,11:19
	Measured	Calibrated(Deg F)	
Lower	10.00	10.00	
Upper	50.00	50.00	

High Resolution Temperature Constants MCG-D.A 287			Last Edited on 11-JUN-2011,11:19
Pre-filter Length	11		

High Resolution Temperature Calibration MHT-A 11			Field Calibration on 11-JUN-2011,11:19
	Measured	Calibrated(Deg F)	
Lower	10.00	10.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MHT-A 11			Last Edited on 11-JUN-2011,11:19
Pre-filter Length	11		

DOWNHOLE EQUIPMENT

C:\LOGS\Bill Barrett\GGU Daley 24C-19-691 Temp\MAIN.dta

3/8" Triple Cone Cable Head (MCB C A)
 MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

SHA-F Compact Swivel Head Adaptor
 SHA-F 82 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
 MCG-D.A 287 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact High Resolution Temperature
 MHT-A 11 LG: 1.53 ft WT: 13.2 lb OD: 2.24 in

Total Length: 14.54 ft Weight: 119.0 lb



4.94 ft GRGC - Gamma Ray
 2.76 ft CCLG - Casing Collar Locator
 2.03 ft CGXT - MCG External Temperature

0.00 ft BHTF - Borehole Temperature
 0.00 ft BHTD - Differential Temperature
 Tool Zero (0.13ft from bottom)
 -0.13 ft SMTU - DST Uphole Tension
 All measurements relative to tool zero.

COMPANY	BILL BARRETT CORPORATION
WELL	GGU DALEY 24C-19-691
FIELD	GIBSON CULCH

FIELD GIBSON GULCH
PROVINCE/COUNTY GARFIELD
COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	5847.00	feet	First Reading	200.00	feet
Elevation Drill Floor	5846.00	feet	Depth Driller	7301.00	feet
Elevation Ground Level	5824.00	feet	Depth Logger	7296.00	feet



Weatherford[®]

TEMPERATURE LOG

