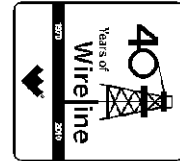




Weatherford[®]

TEMPERATURE LOG

COMPANY **BILL BARRETT CORPORATION**
 WELL **GGU SWANSON 32D-29-691**
 FIELD **GIBSON GULCH**
 PROVINCE/COUNTY **GARFIELD**
 COUNTRY/STATE **U.S.A. / COLORADO**
 LOCATION **SHL: 1221' FNL & 1342' FEL**
BHL: 1473' FNL & 1990' FEL



SEC **29** TWP **6S** RGE **91W** Other Services
 API Number **05-045-19801**
 Permit Number

Permanent Datum G.L., Elevation 6104 feet
 Log Measured From KB @ 23 FT above Permanent Datum
 Drilling Measured From K.B.

Elevations: feet
 KB 6127.00
 DF 6126.00
 GL 6104.00

Date	23-FEB-2011	
Run Number	ONE	
Depth Driller	7467.00	feet
Depth Logger	7467.00	feet
First Reading	7467.00	feet
Last Reading	200.00	feet
Casing Driller	768.00	feet
Casing Logger	768.00	feet
Bit Size	7.880	inches
Hole Fluid Type	WATER	
Density / Viscosity		
PH / Fluid Loss		
Sample Source		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc	CALC	CALC
Rm @ BHT		
Time Since Circulation		
Max Recorded Temp	174.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13173	G.D.JCT
Recorded By	J.GARCIA	
Witnessed By	C.CROW	

BOREHOLE RECORD

Last Edited: 23-FEB-2011 19:11

Bit Size inches	Depth From feet	Depth To feet
8.750	768.00	7467.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	768.00	36.00
PRODUCTI	4.500	0.00	7456.00	11.60

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: J.GARCIA
 OPERATORS: S.KAISER
 RIG: PATTERSON 307
 SERVICE ORDER #3524852

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 Plotted on 23-FEB-2011 20:21
 Filename: C:\Minimus\Logs\Bill Barrett Temp\GGU Swanson 32D-29-691\temp.dta Recorded on 23-FEB-2011 18:24
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

Timing Marks
every 60.0 sec

Gamma Ray
API

0	75	150
150	225	300

Borehole Temperature
degrees F

0	50	100
---	----	-----

DST Uphole Tension
pounds

3000	0
0	-3000

Casing Collar Locator

-15000	7000
--------	------

Depth in Feet

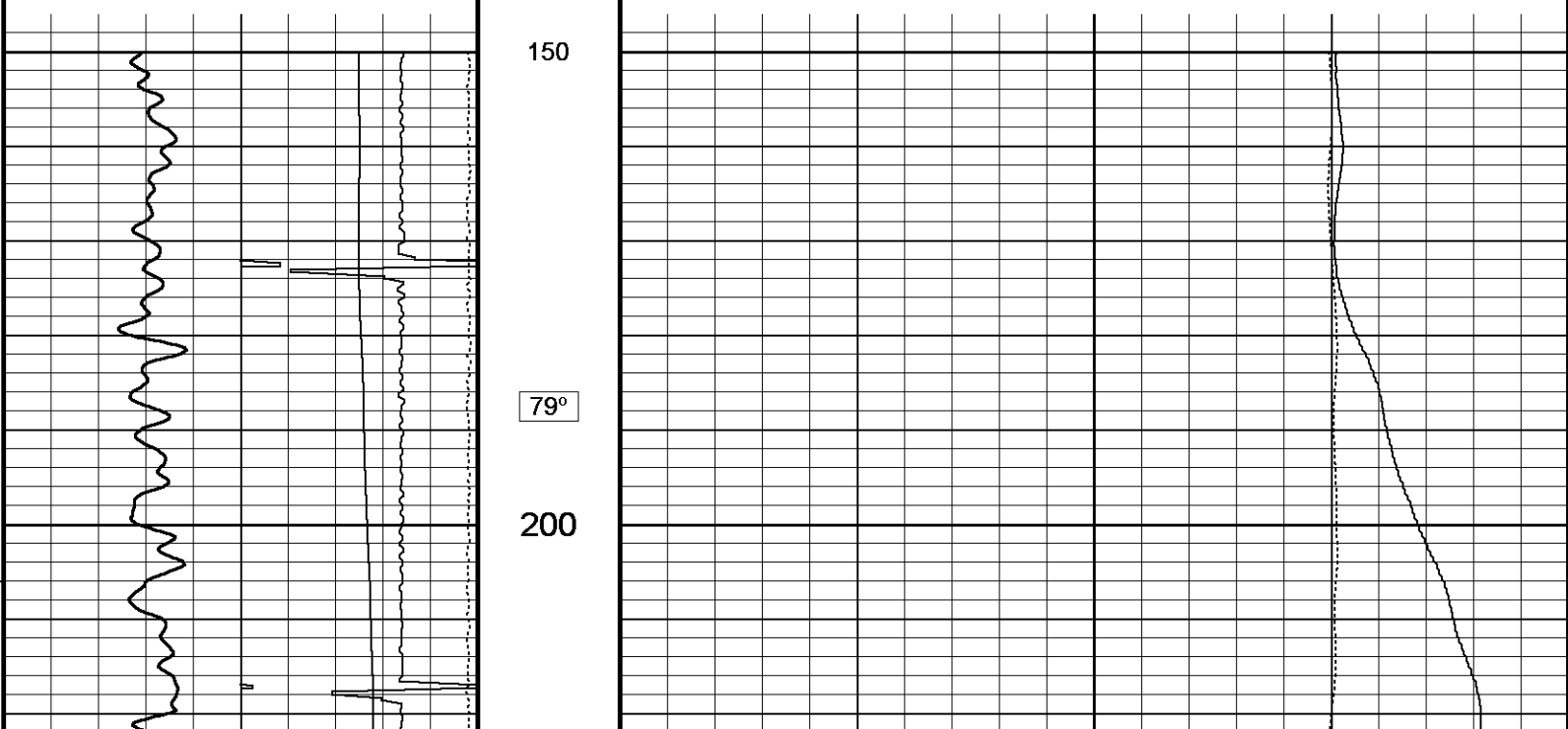
Borehole Temperature
degrees F

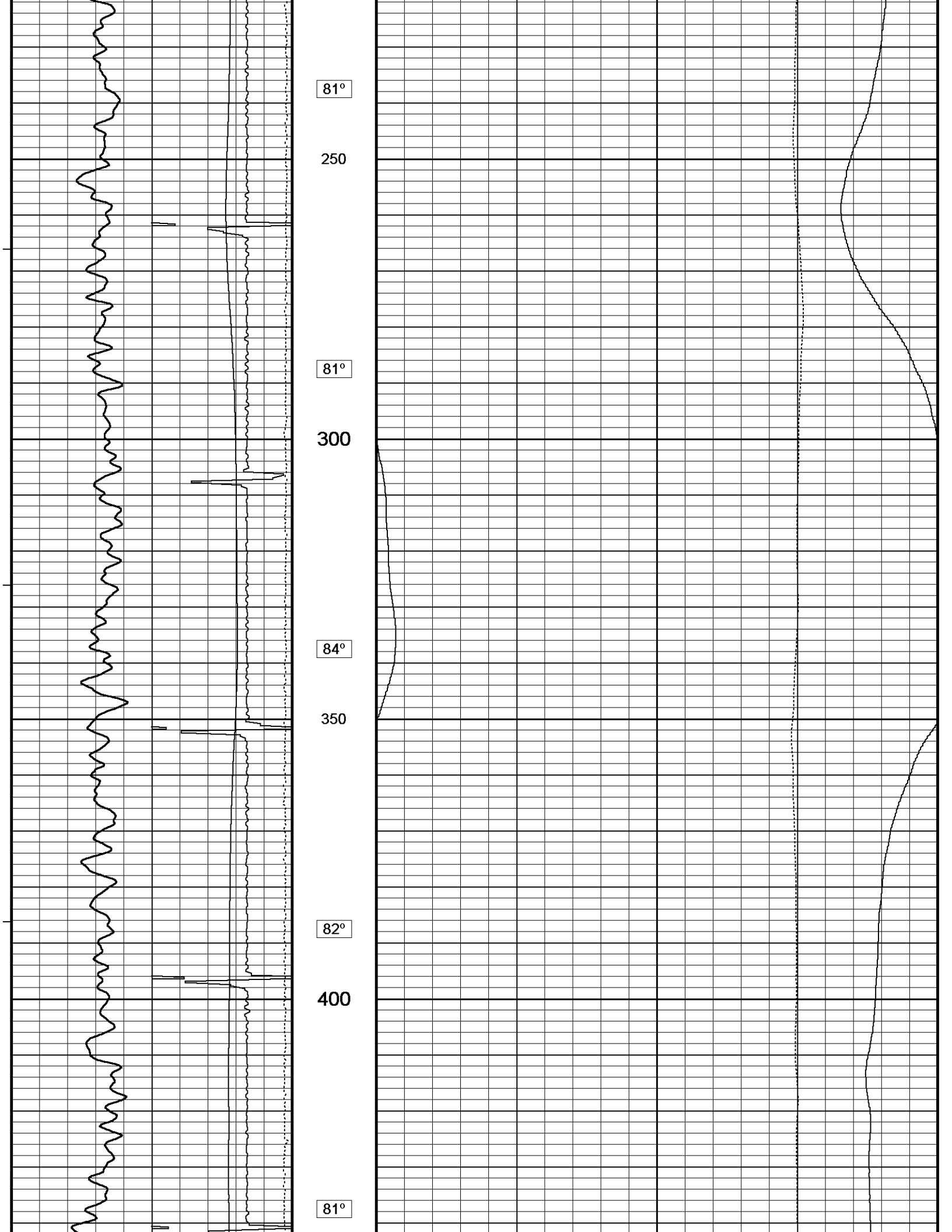
0 5 10 15 20

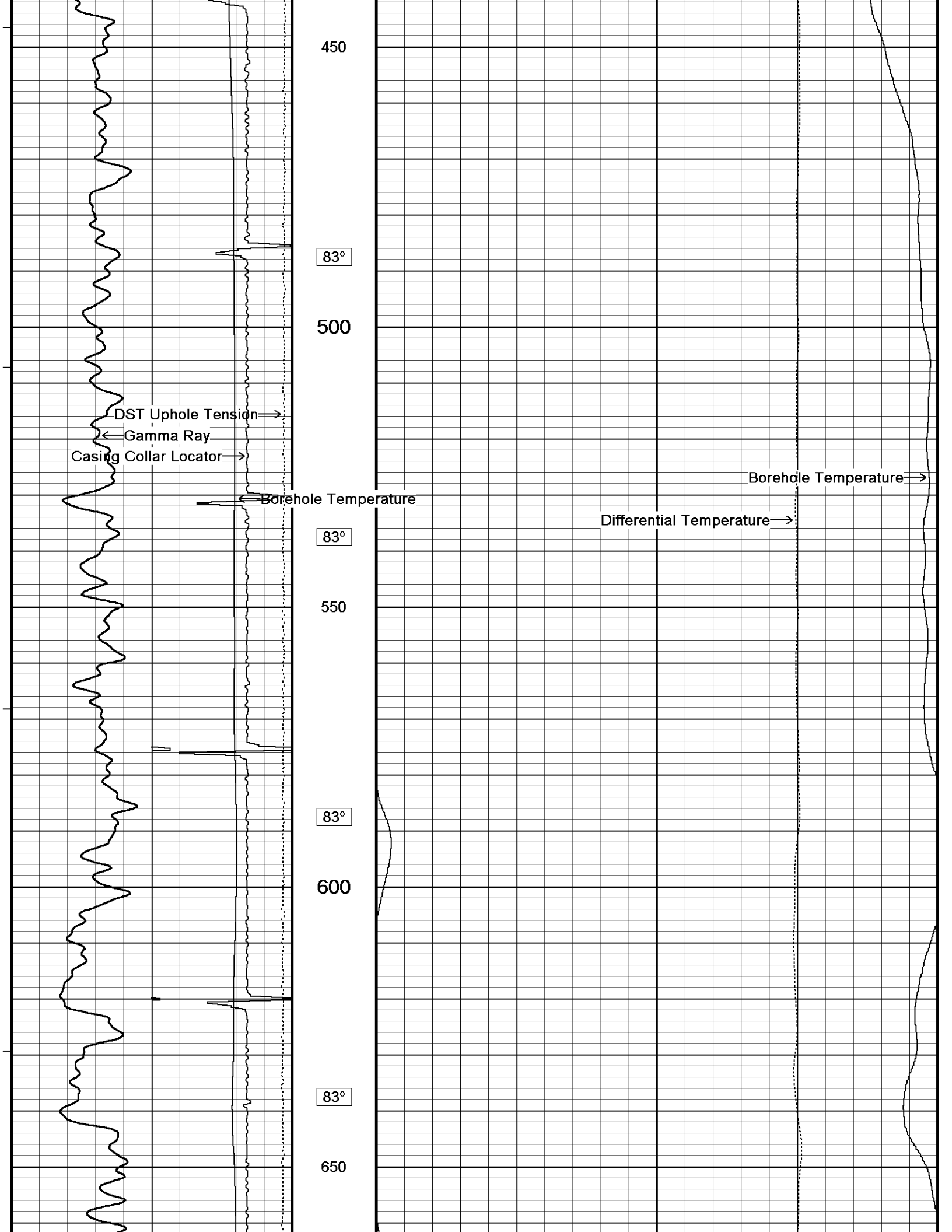
Differential Temperature
degrees F/sample

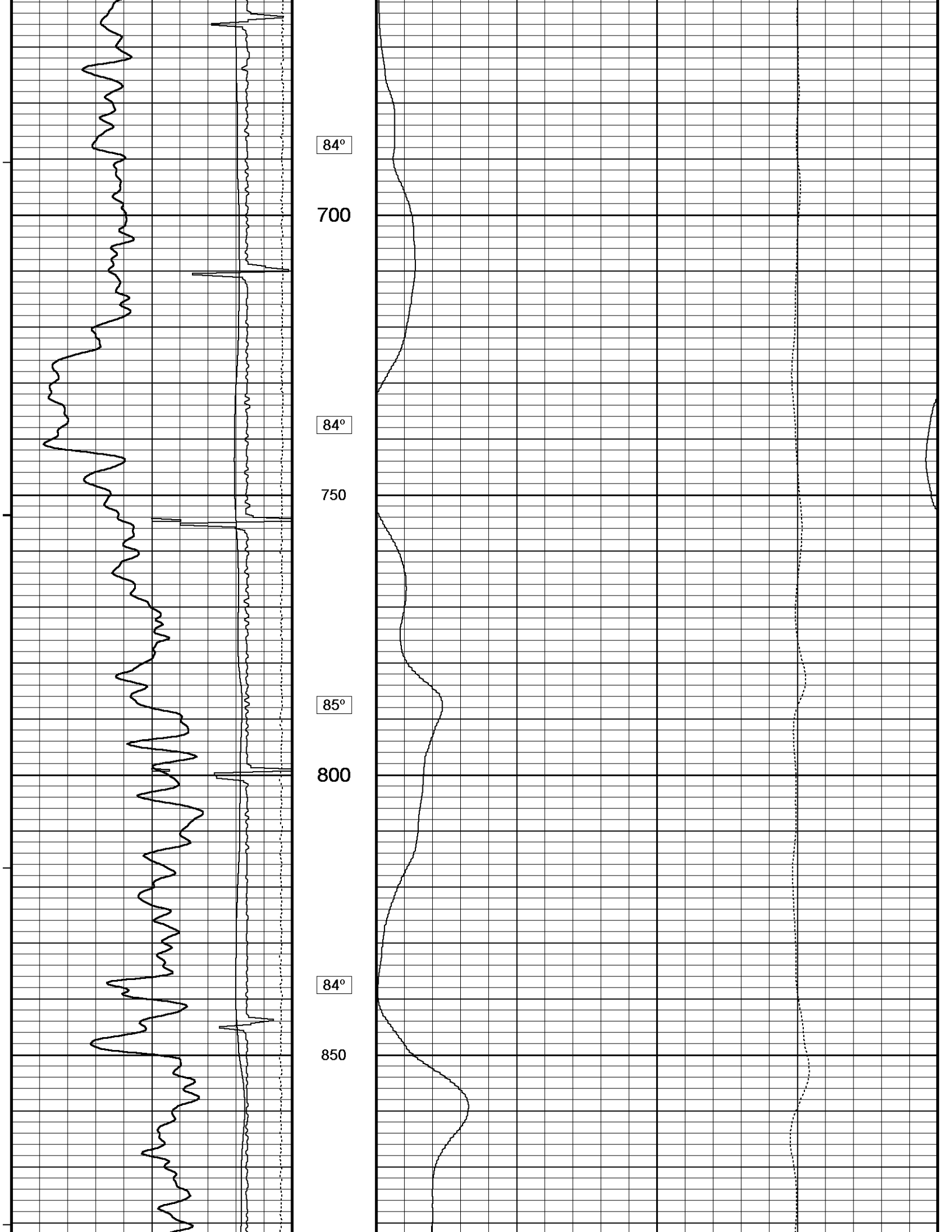
-1 0 1

Replay Scale 1:240









DST Uphole Tension →
← Gamma Ray
Casing Collar Locator →

Borehole Temperature →
← Borehole Temperature

Differential Temperature →

86°

900

85°

950

86°

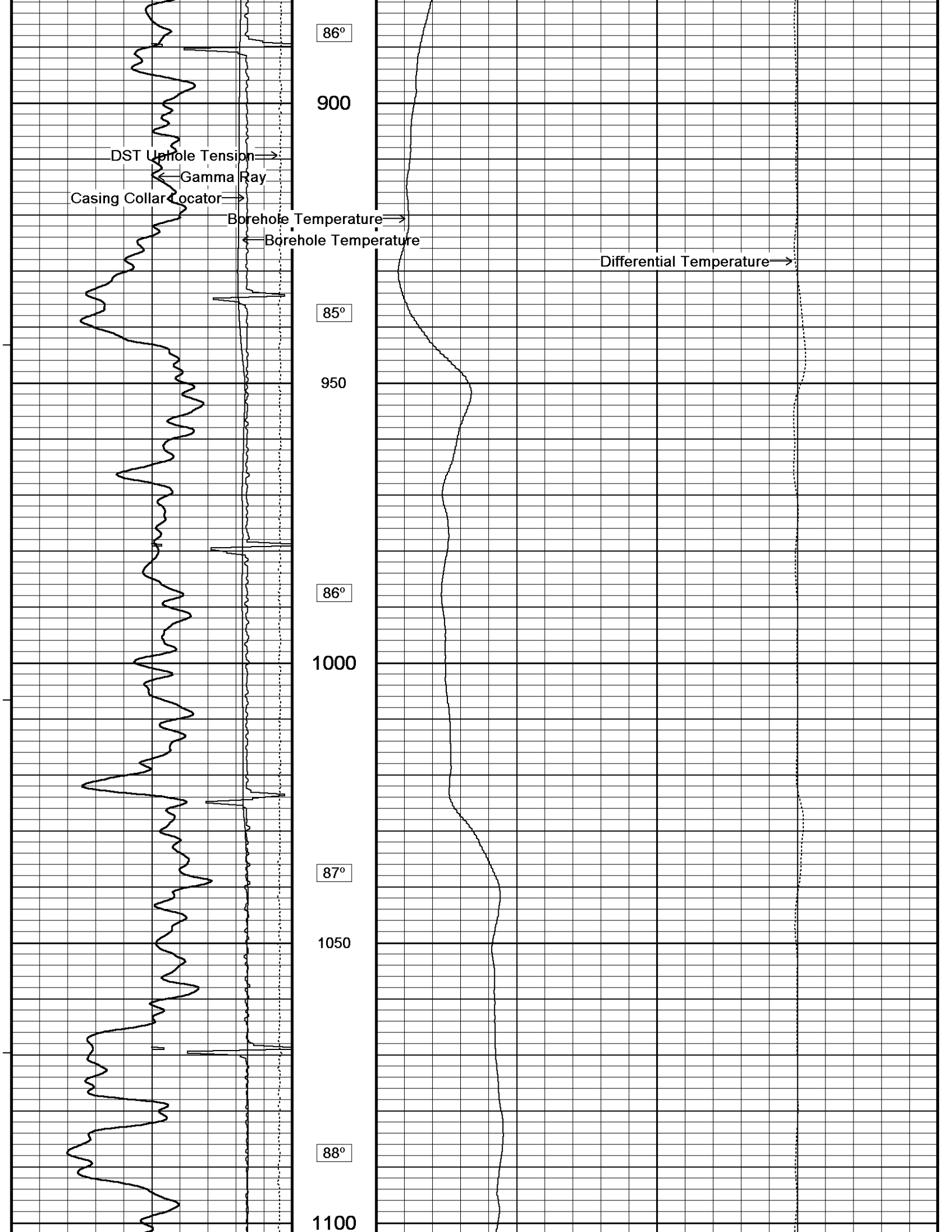
1000

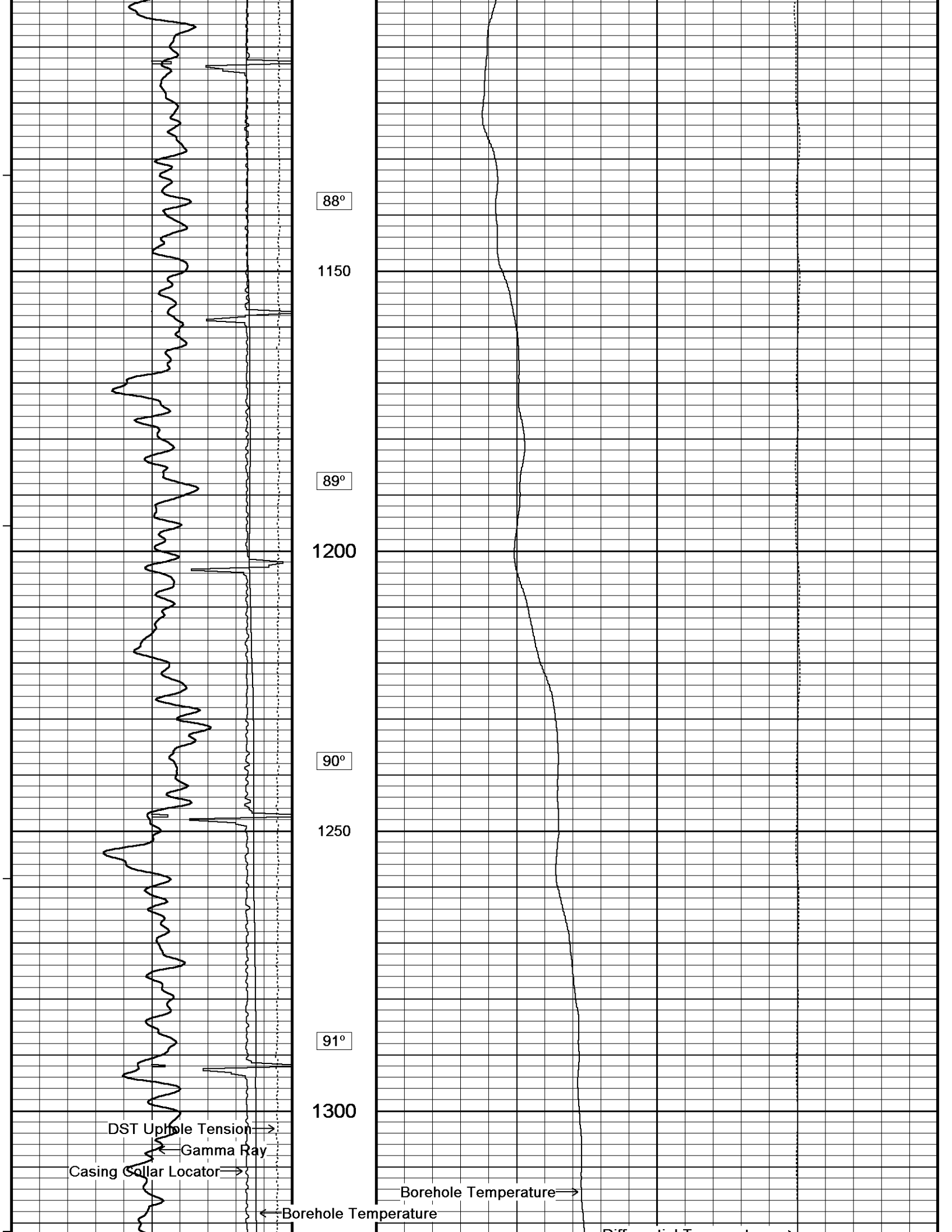
87°

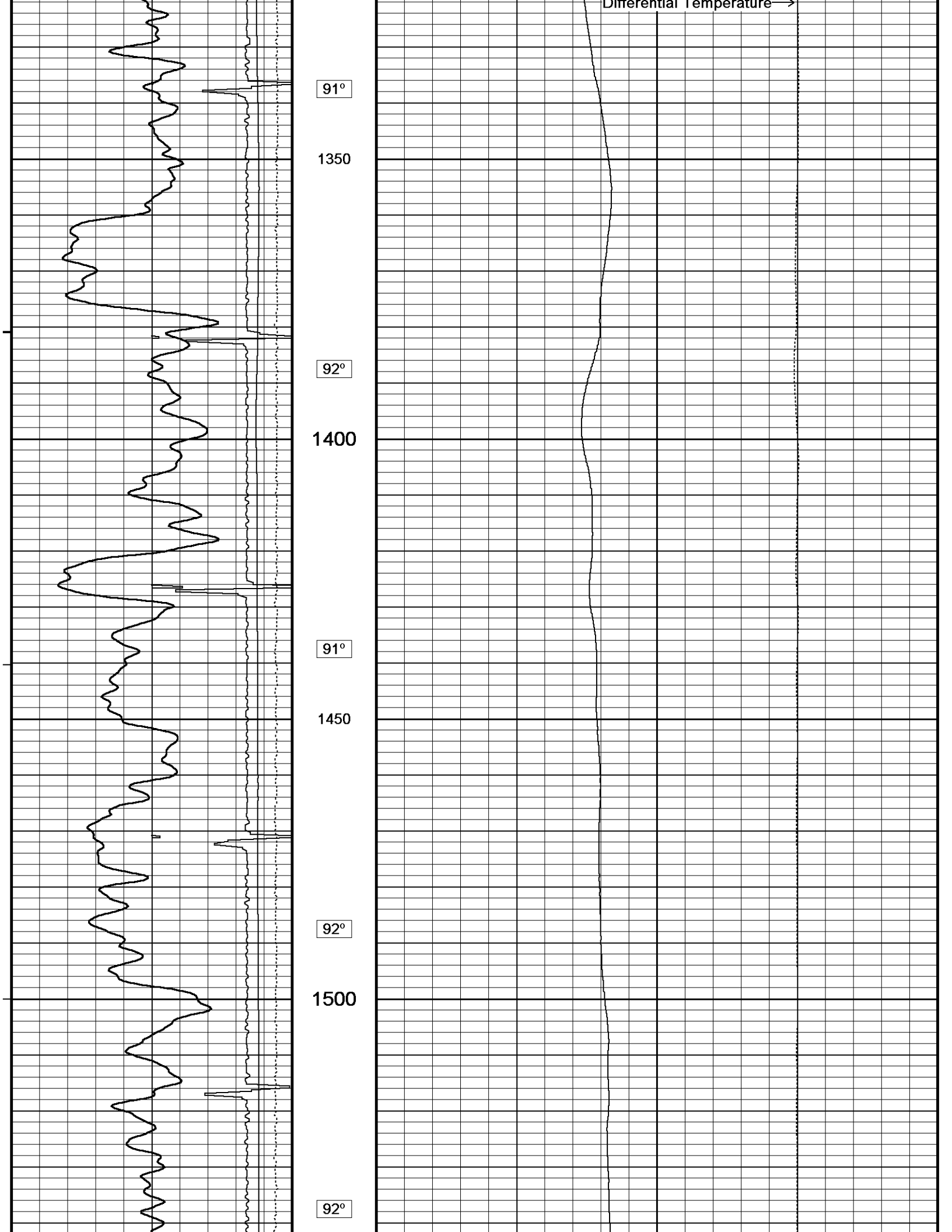
1050

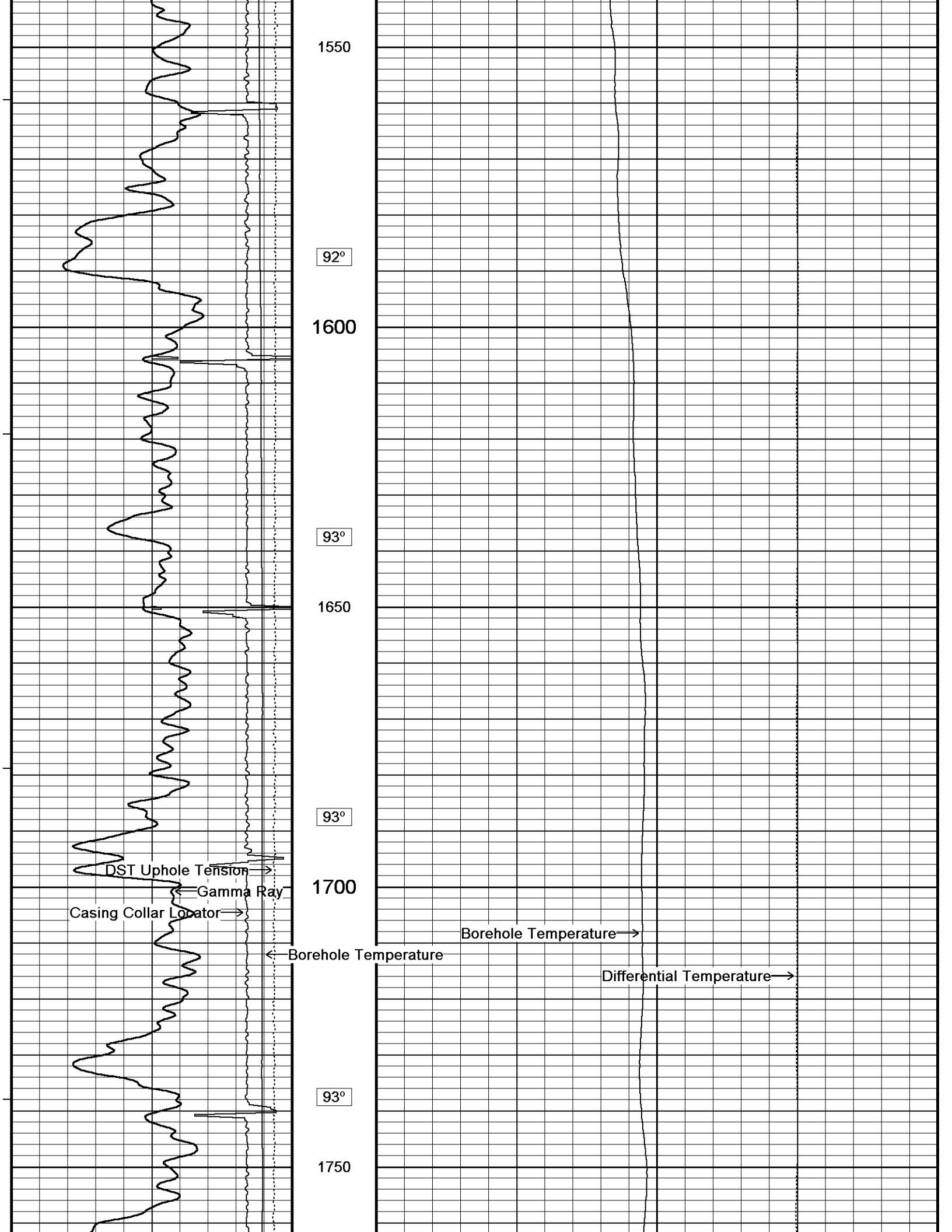
88°

1100









1550

92°

1600

93°

1650

93°

1700

93°

1750

DST Uphole Tension →

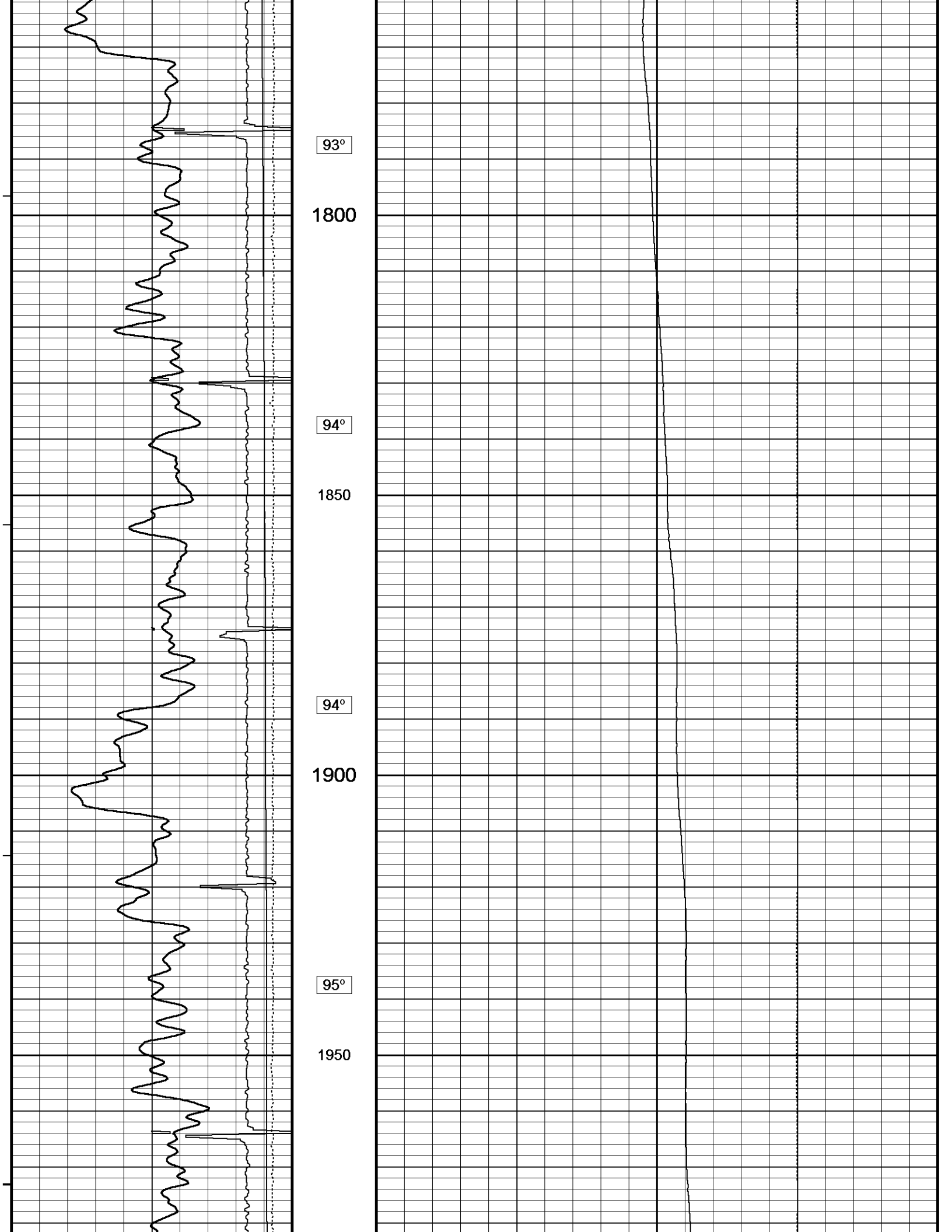
← Gamma Ray

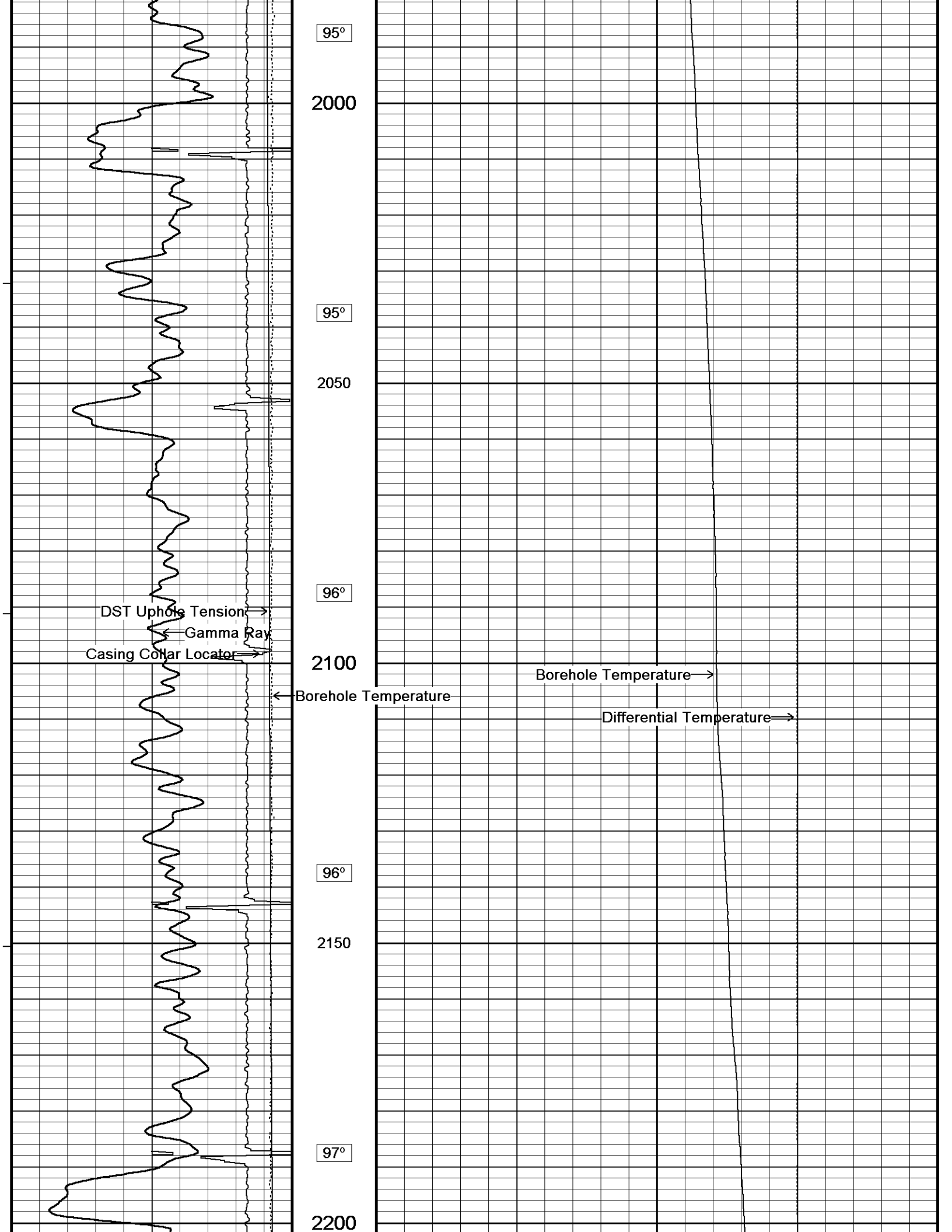
Casing Collar Locator →

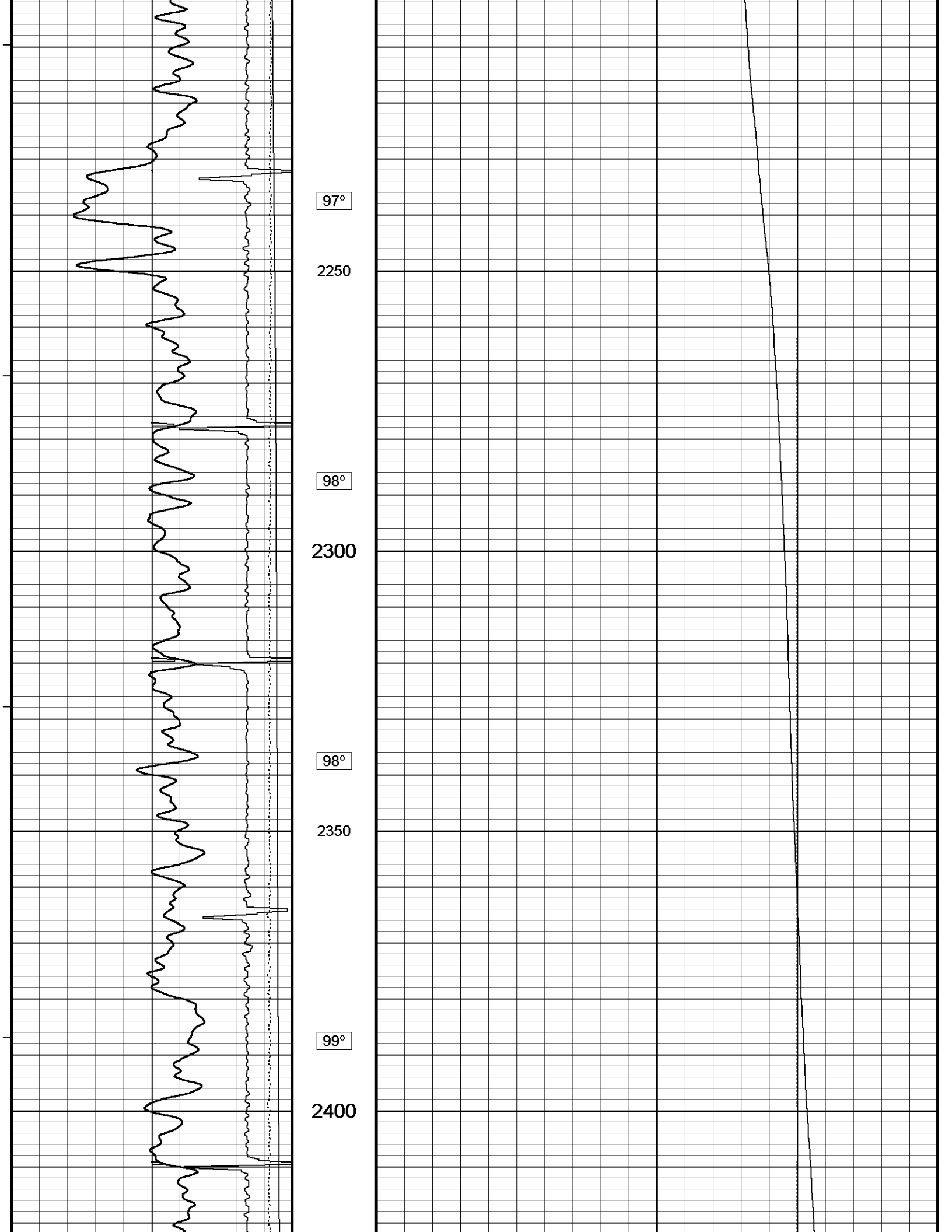
← Borehole Temperature

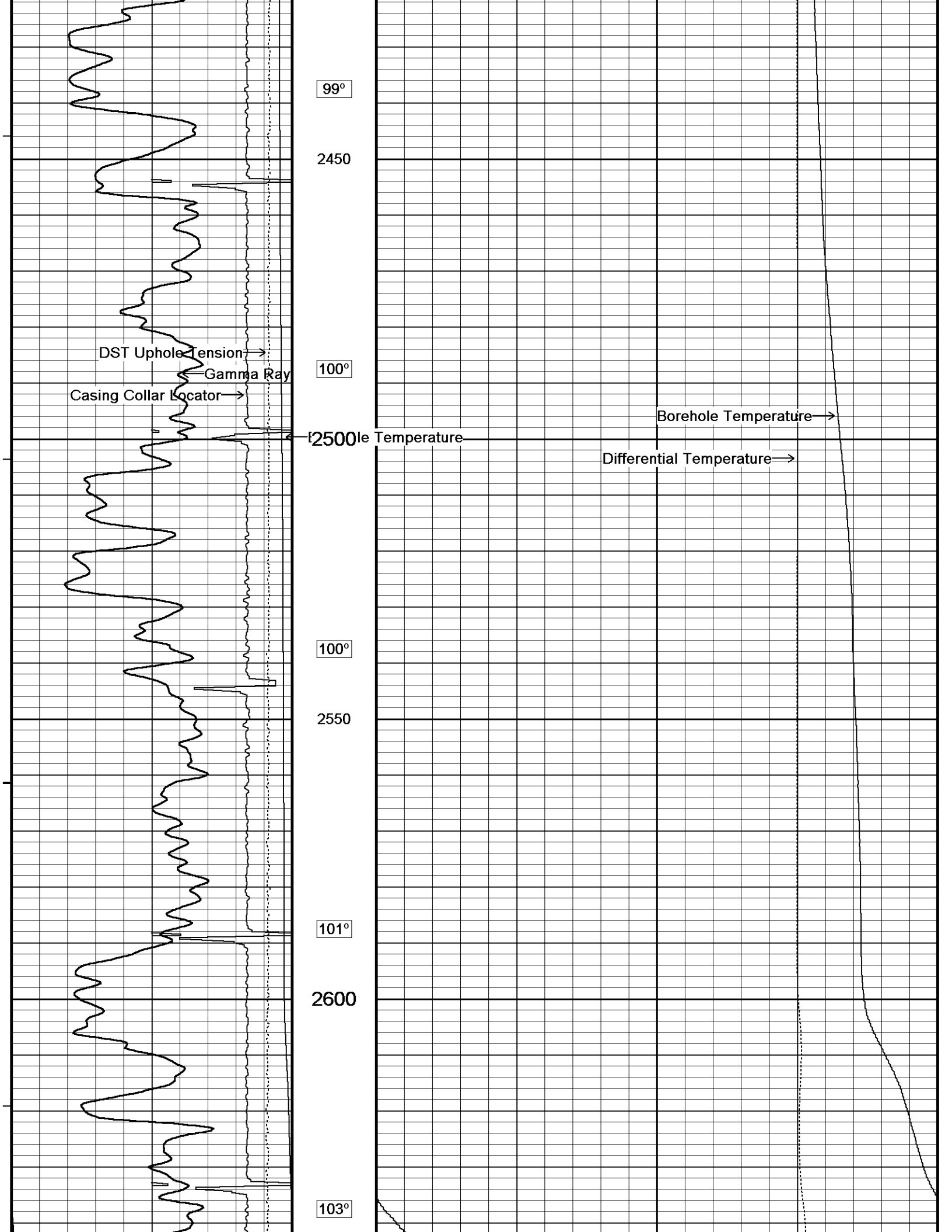
Borehole Temperature →

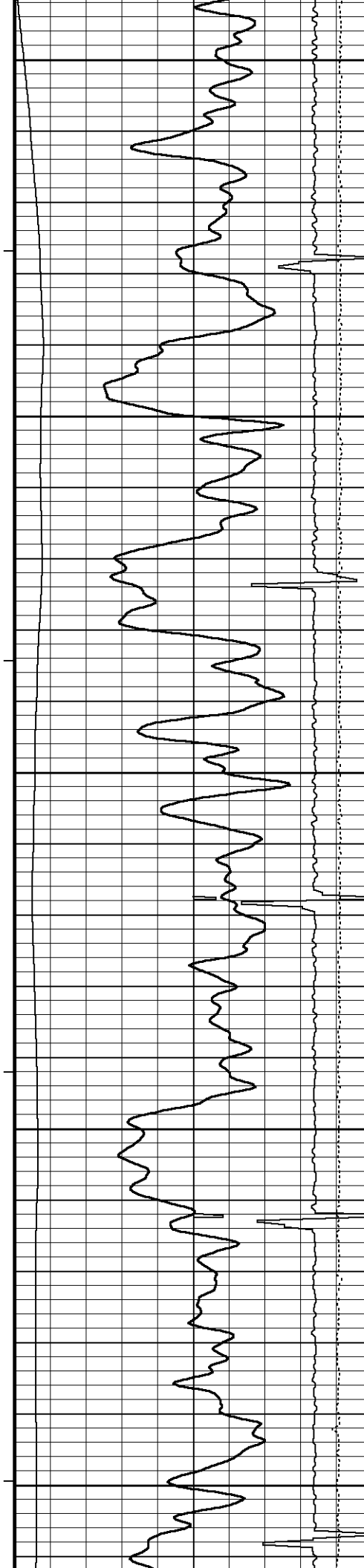
Differential Temperature →



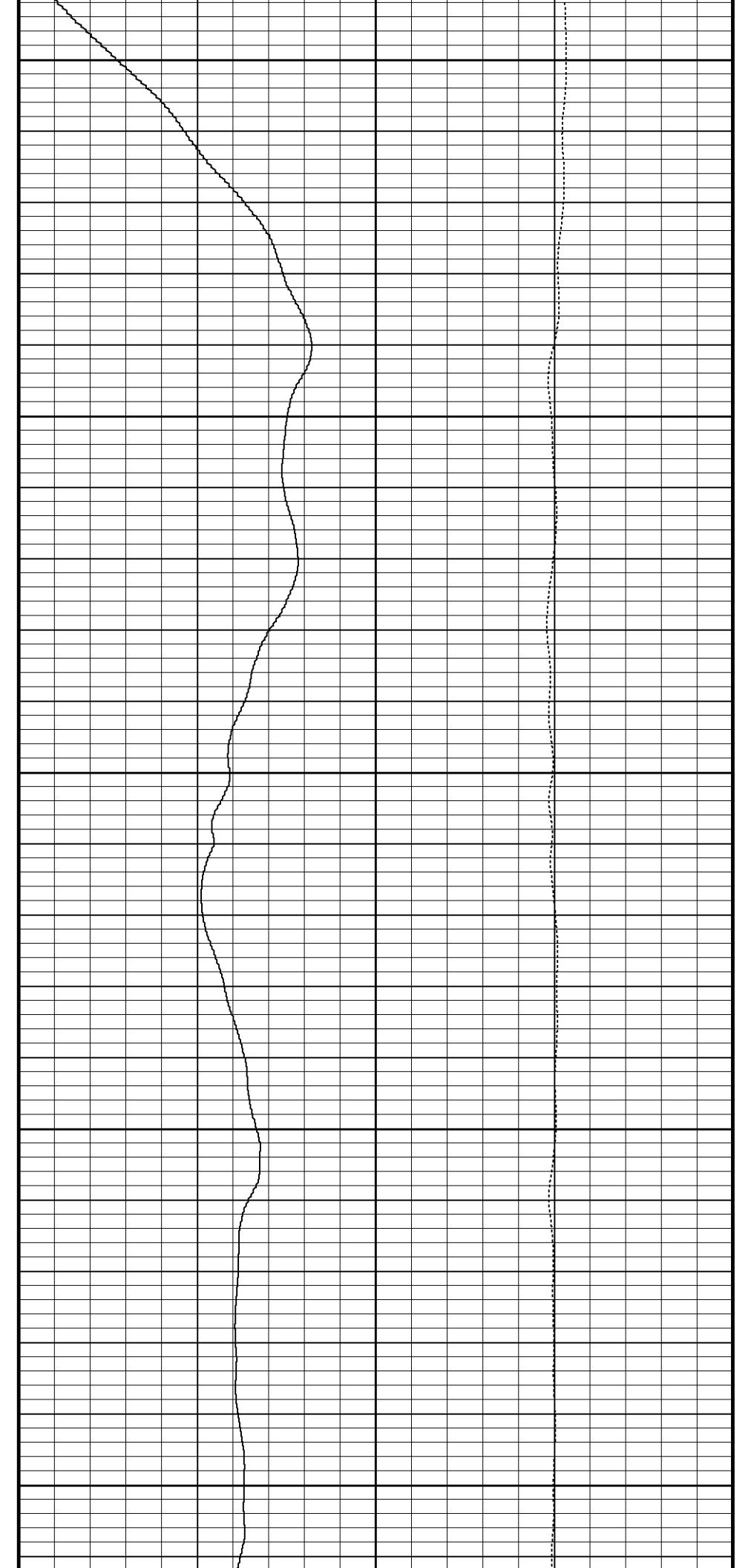


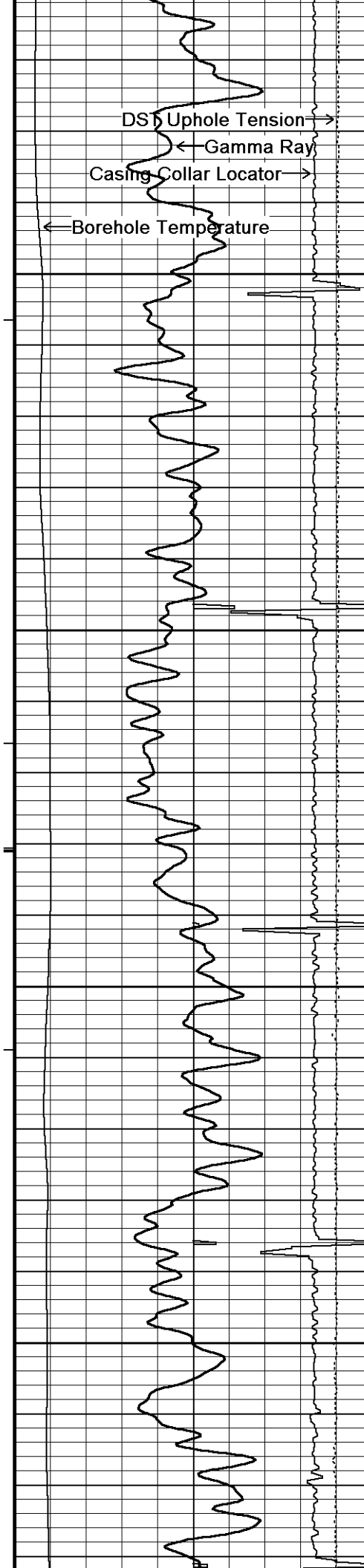






2650
109°
2700
110°
2750
109°
2800
109°
2850





109°

2900

110°

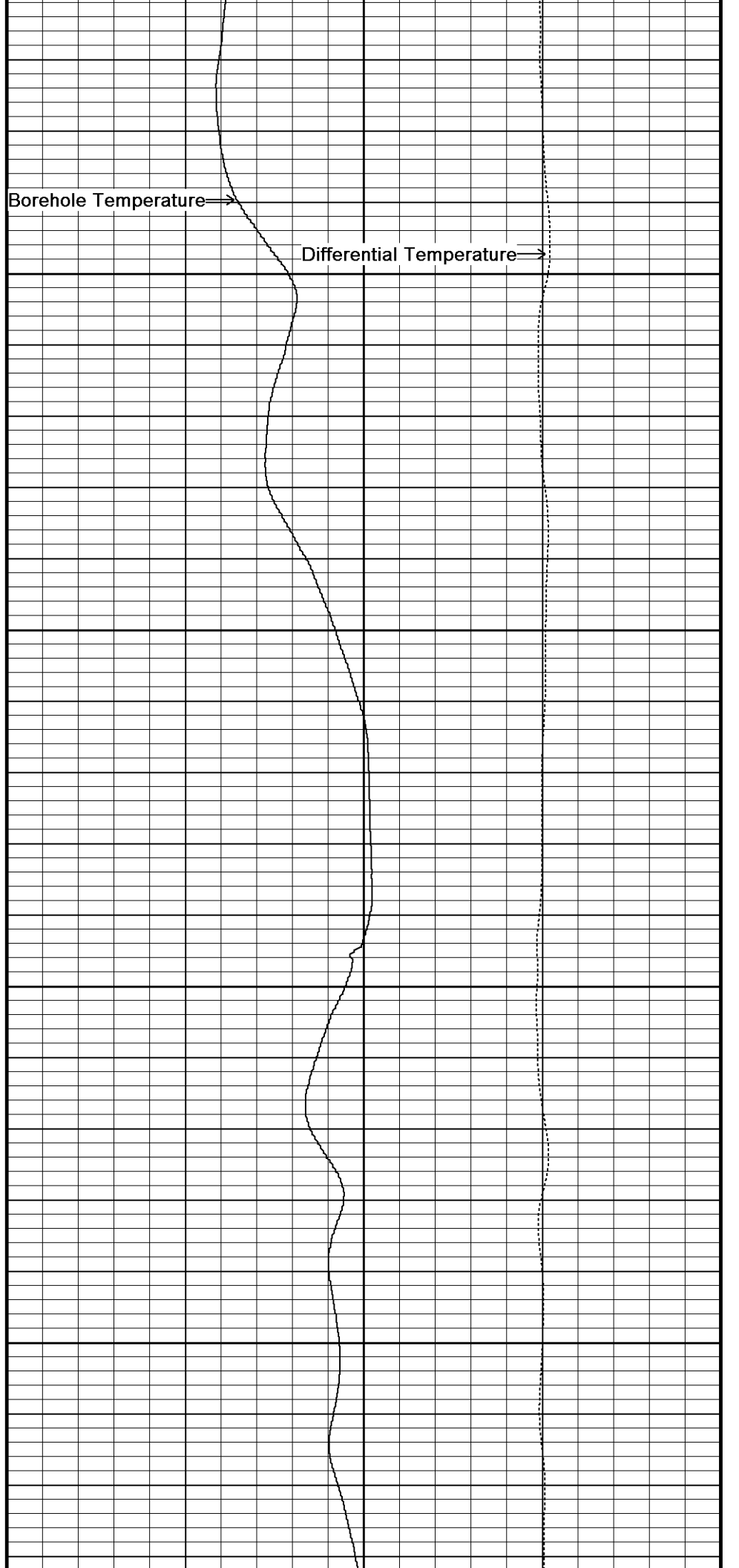
2950

113°

3000

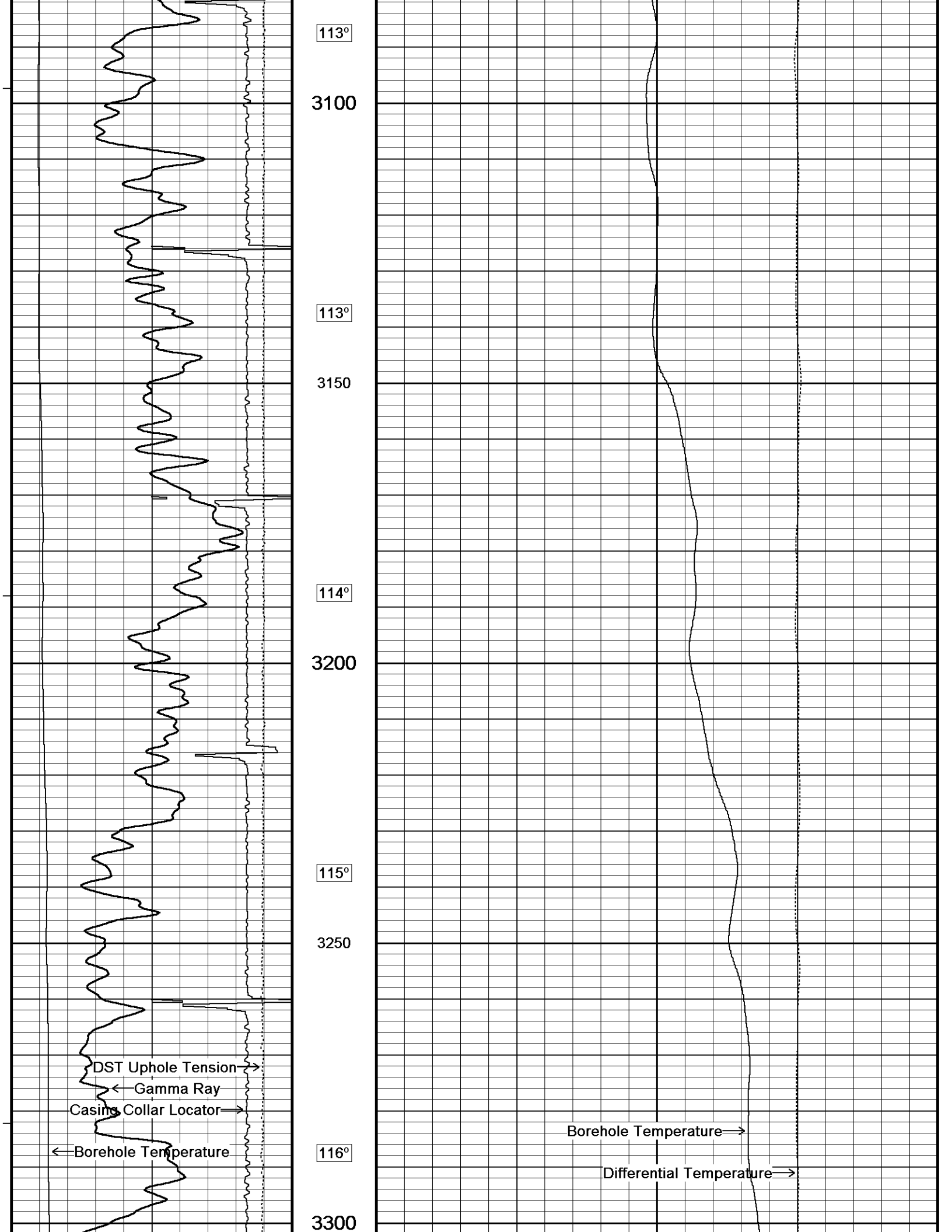
112°

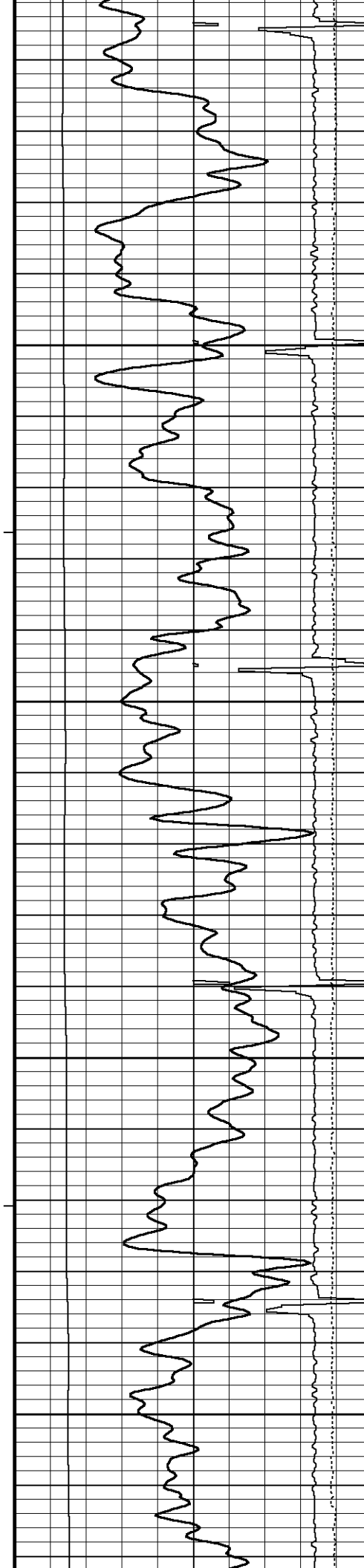
3050



Borehole Temperature

Differential Temperature





116°

3350

116°

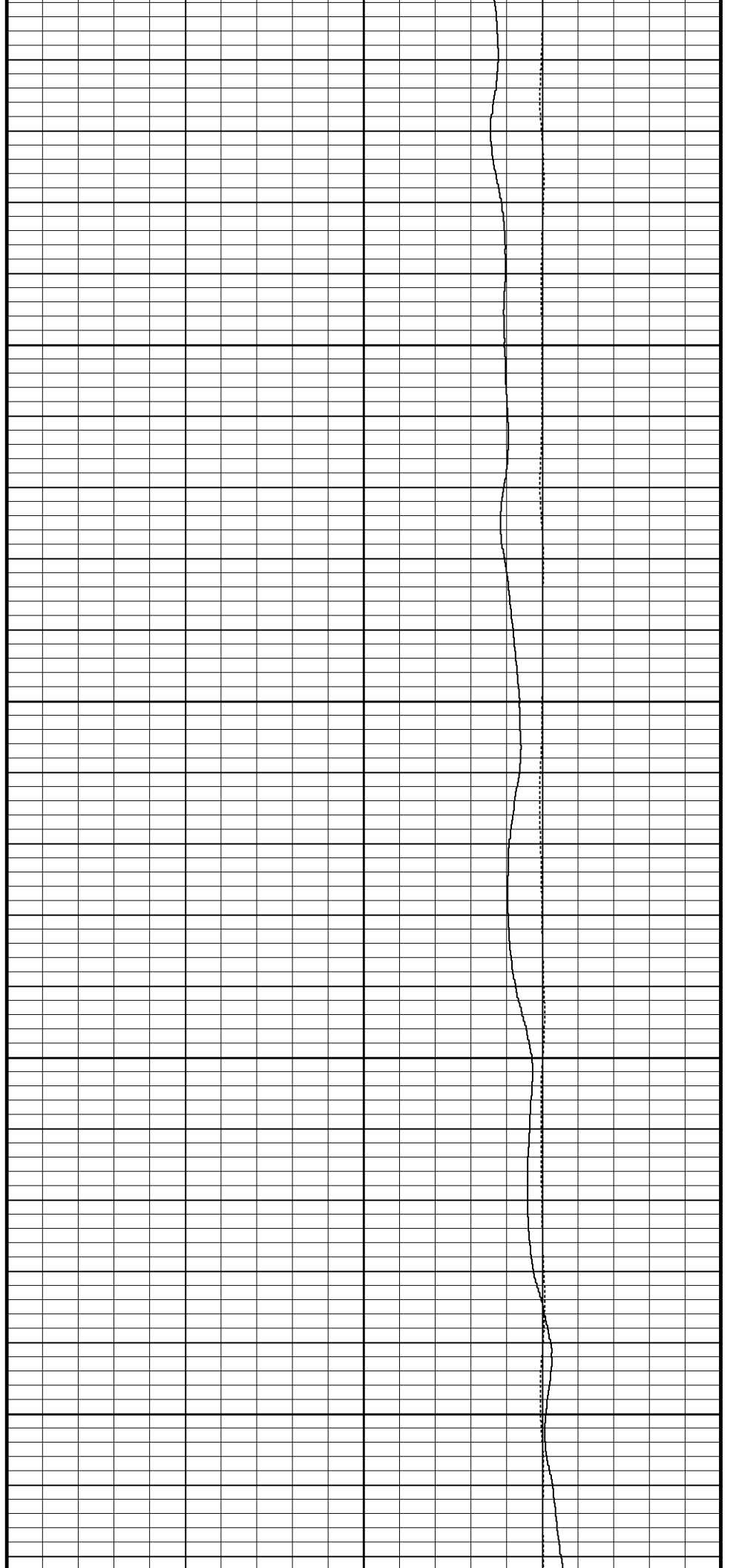
3400

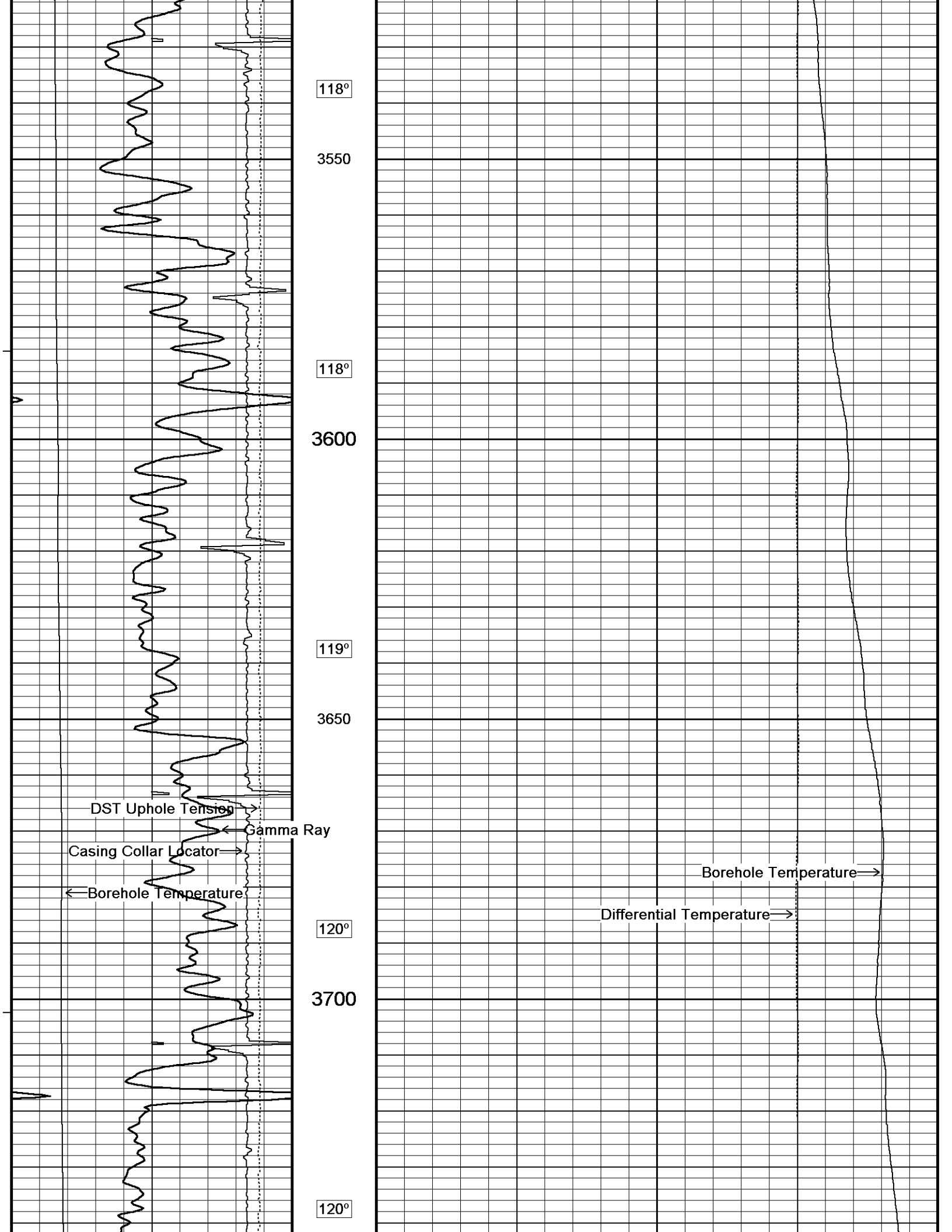
117°

3450

117°

3500





118°

3550

118°

3600

119°

3650

DST Uphole Tension

Gamma Ray

Casing Collar Locator

Borehole Temperature

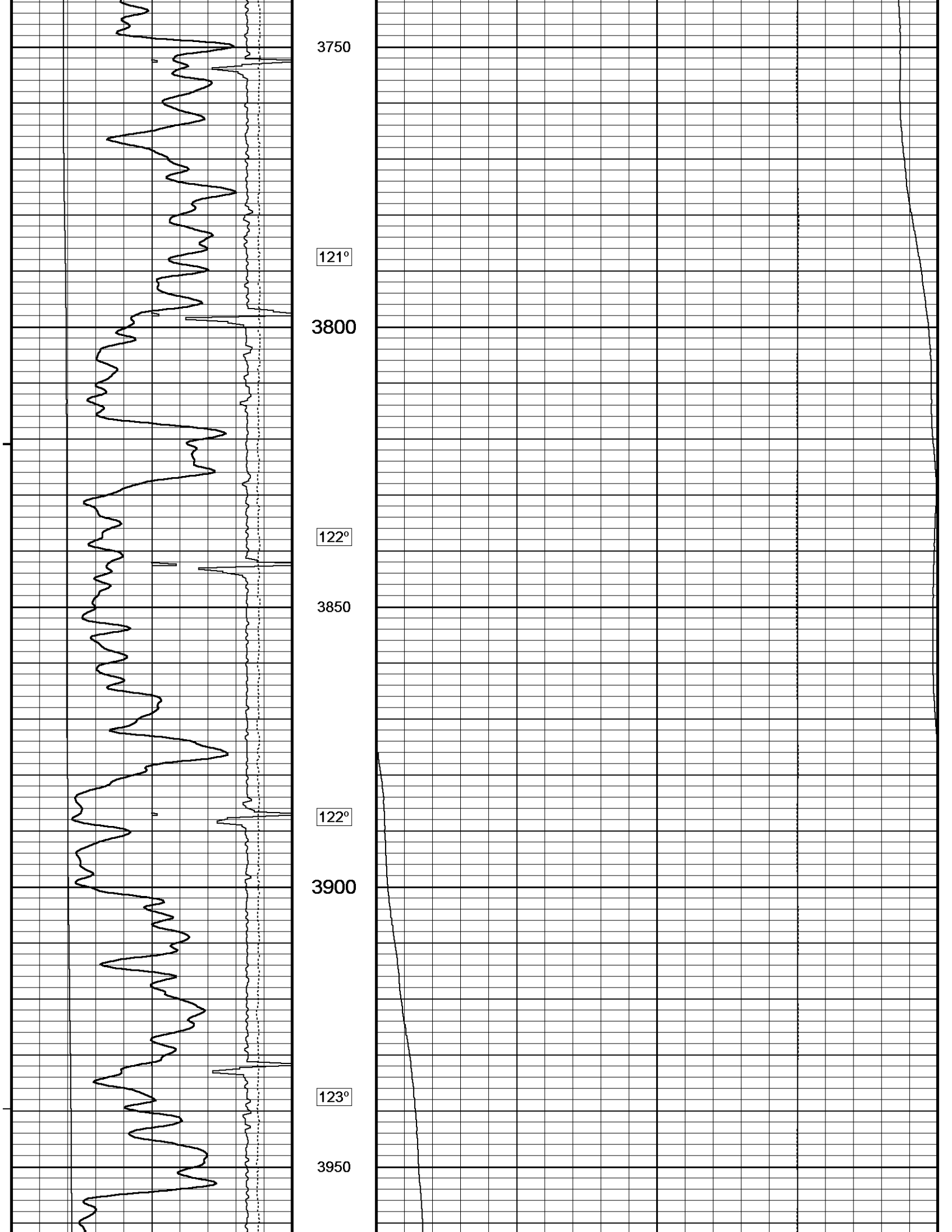
120°

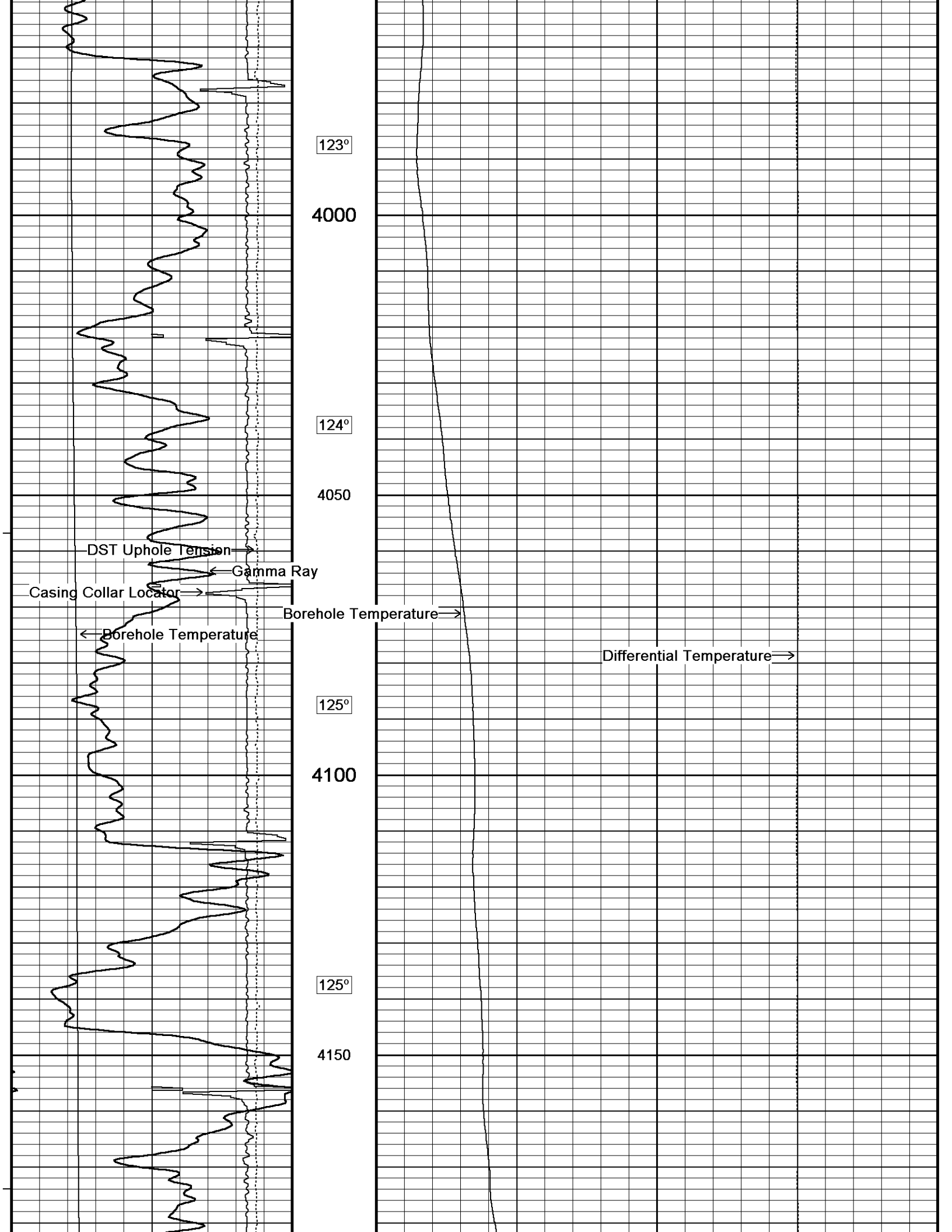
3700

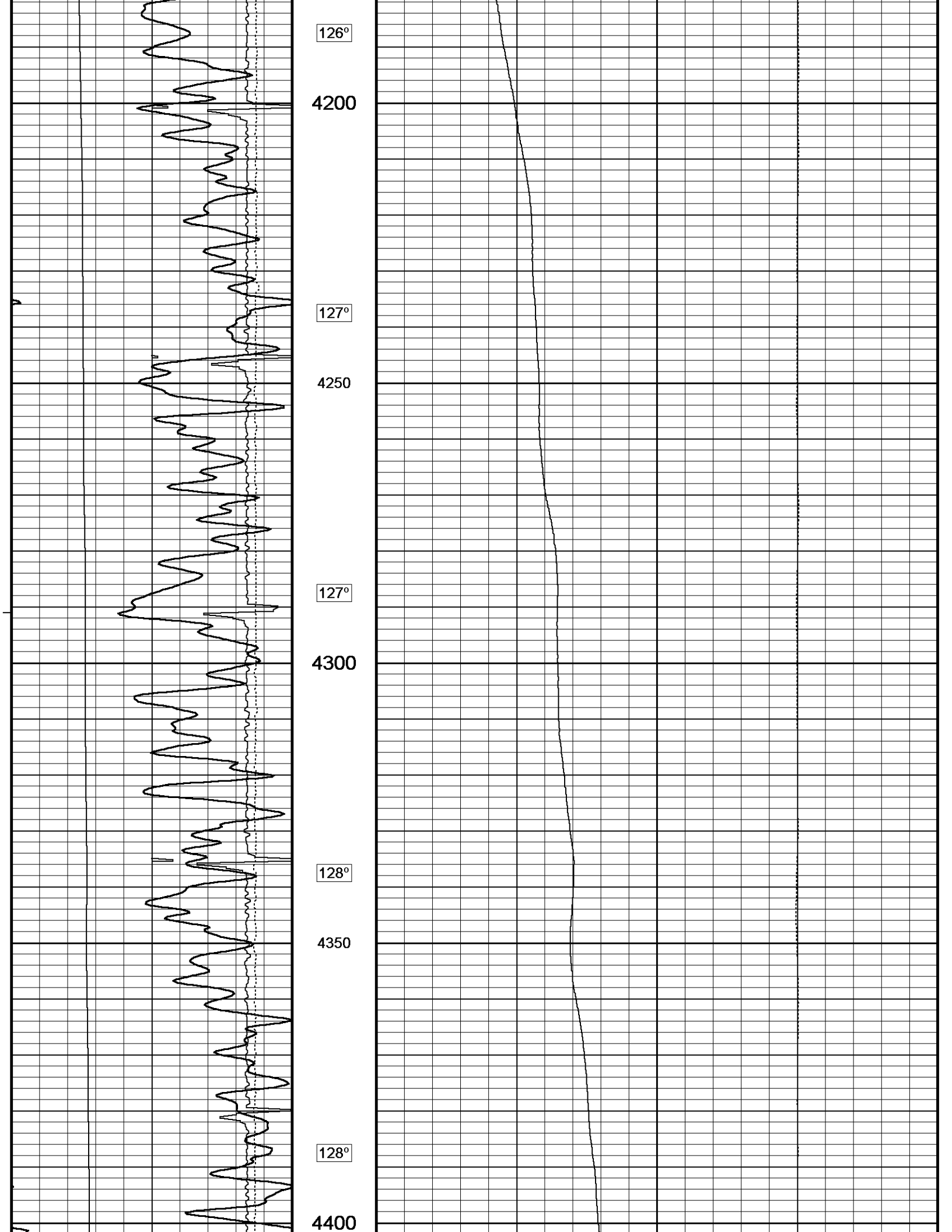
120°

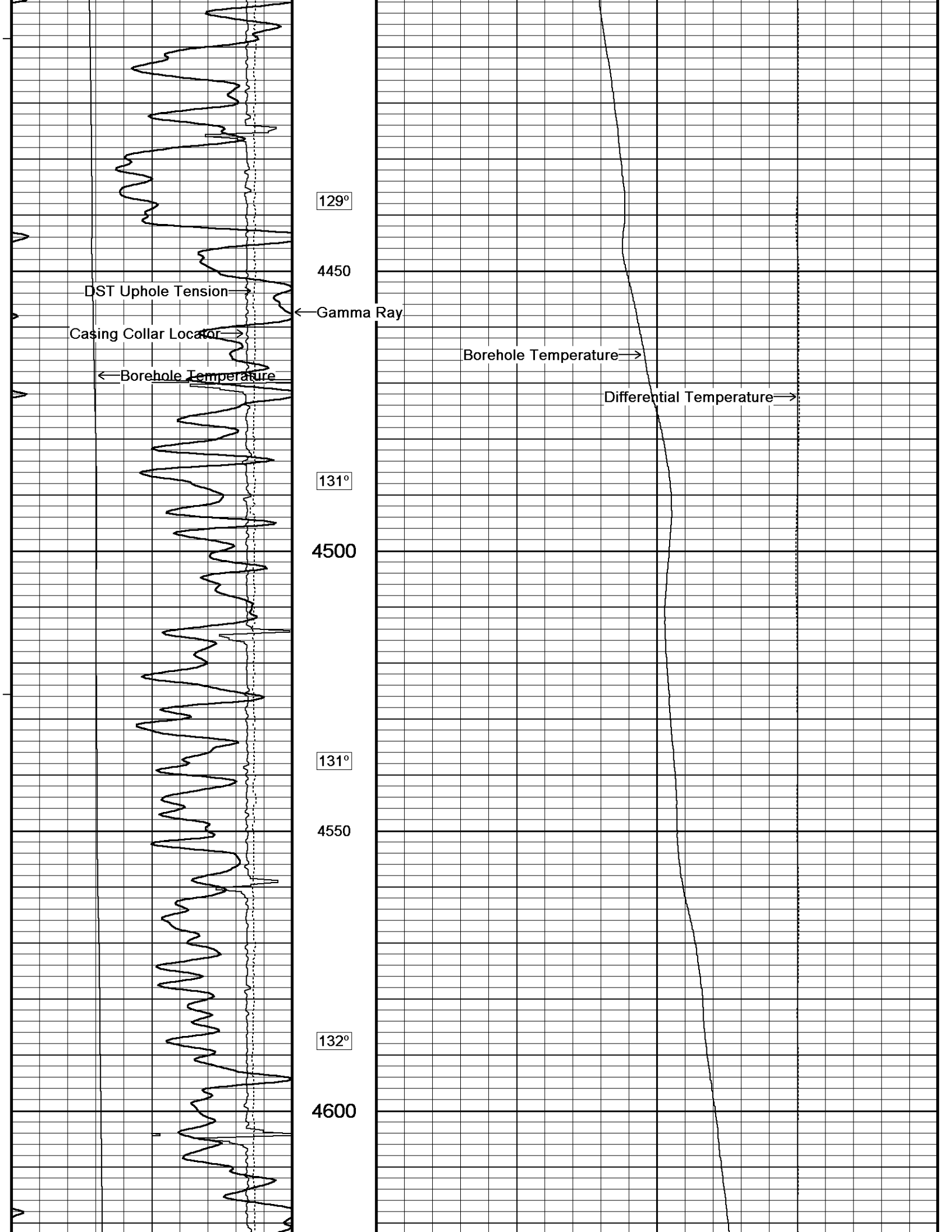
Borehole Temperature

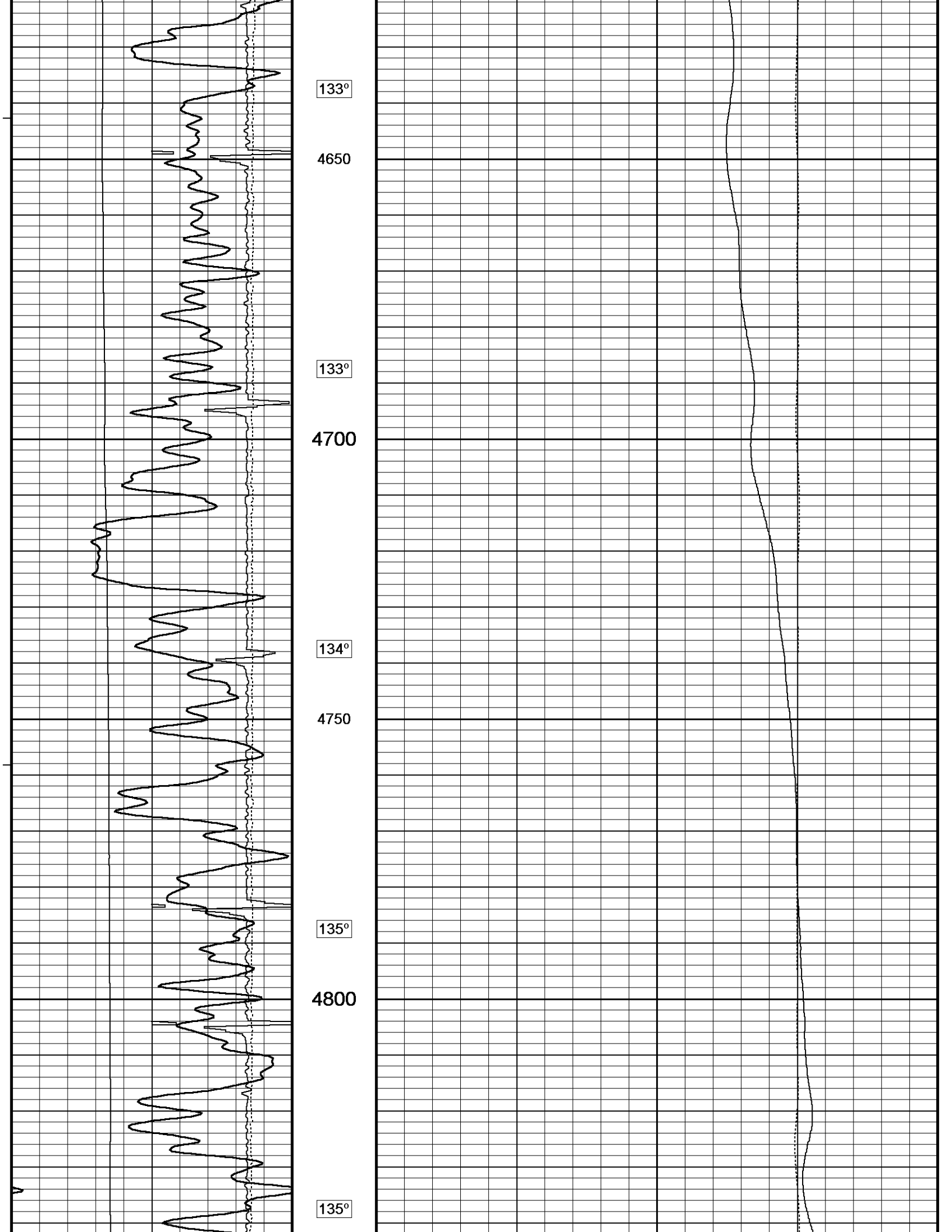
Differential Temperature











DST Uphole Tension
Casing Collar Locator
Borehole Temperature

Gamma Ray

Borehole Temperature
Differential Temperature

136°

4900

137°

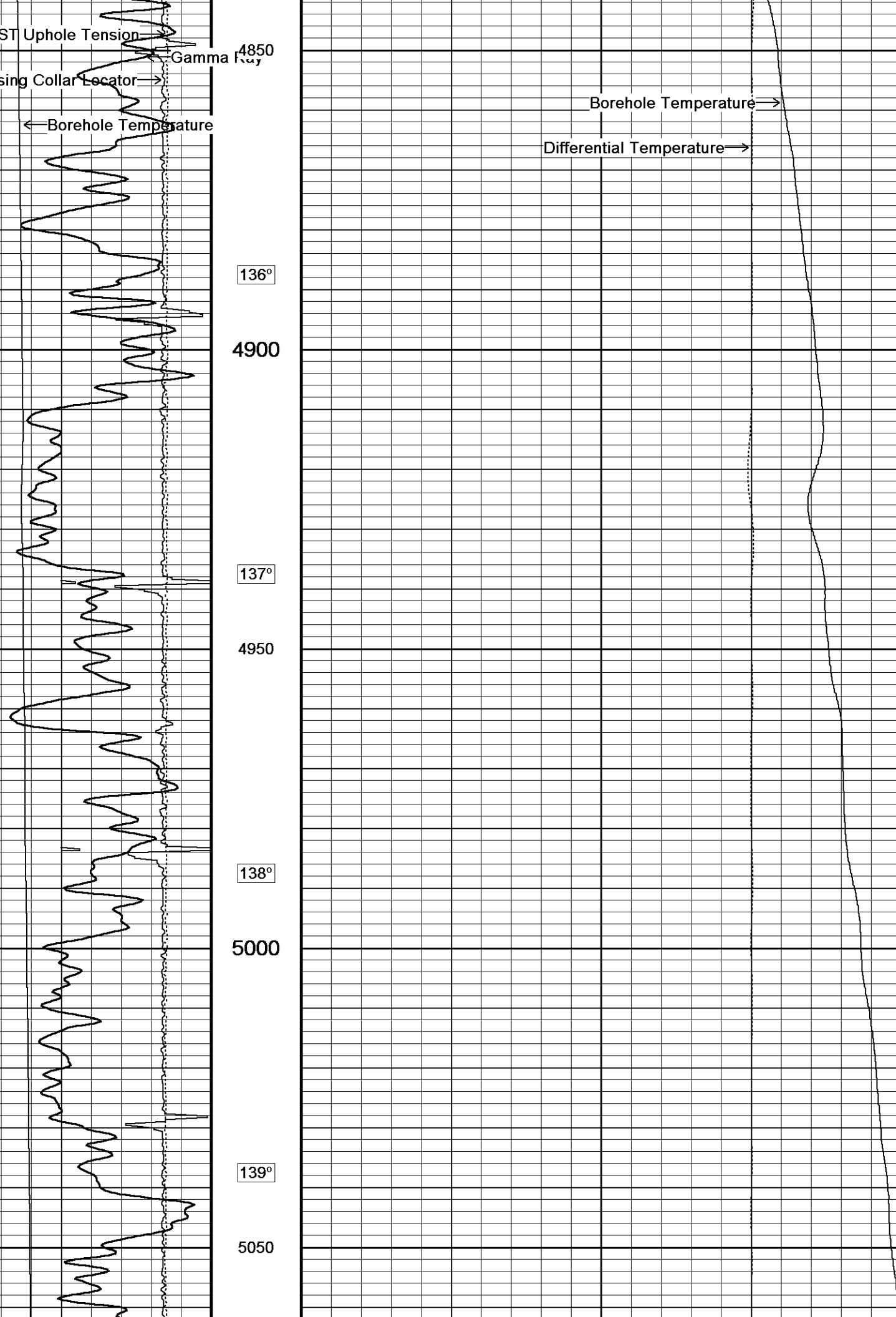
4950

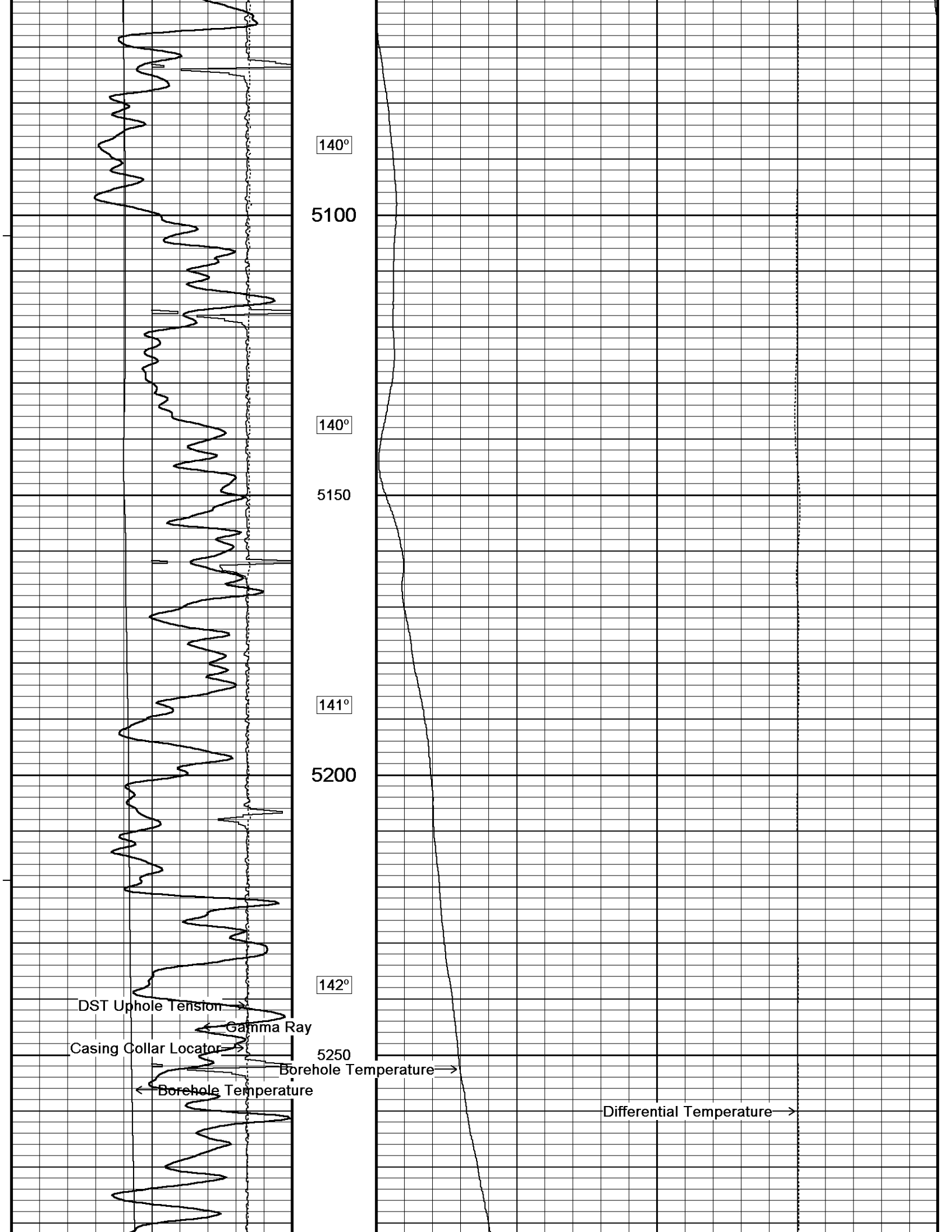
138°

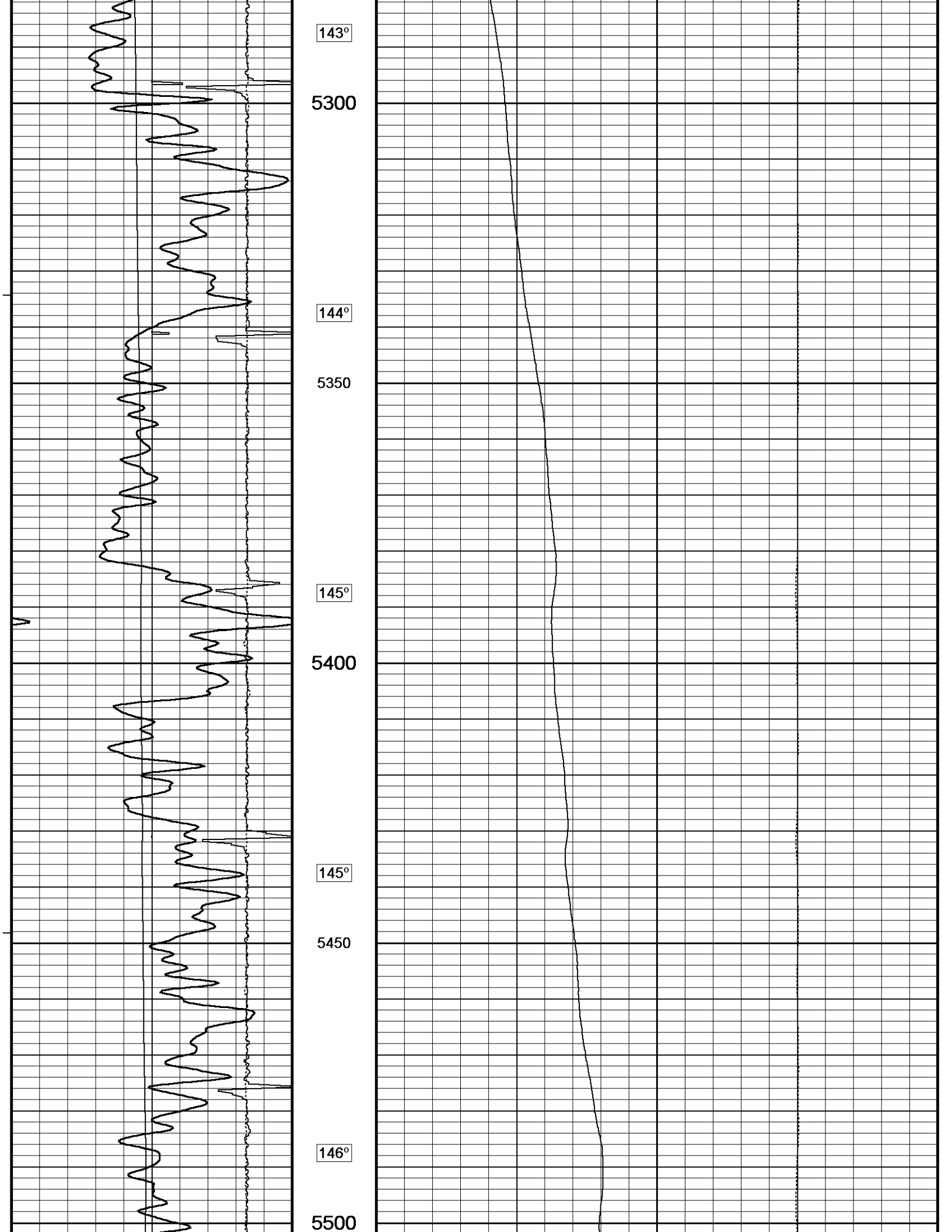
5000

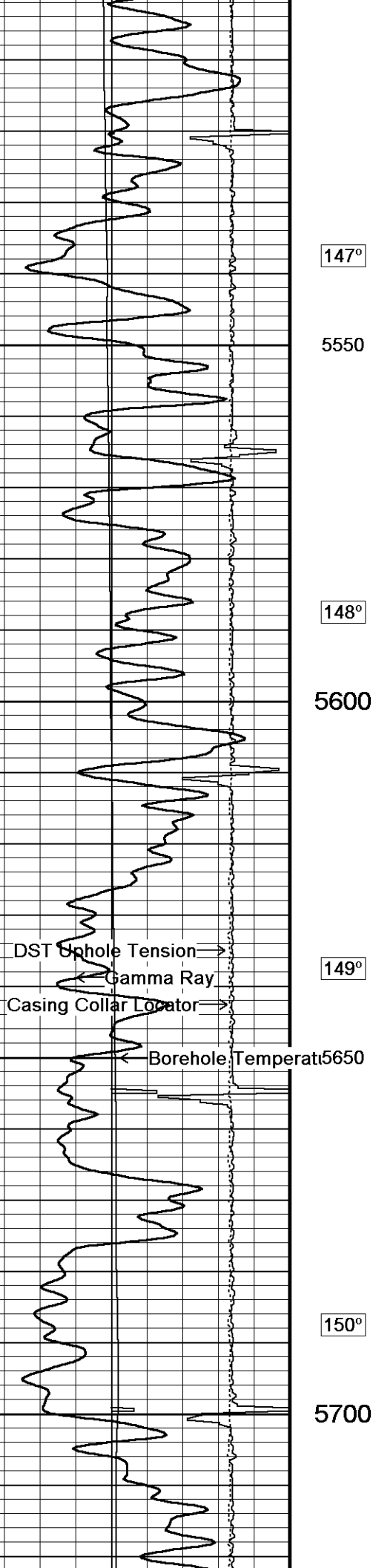
139°

5050









147°

5550

148°

5600

149°

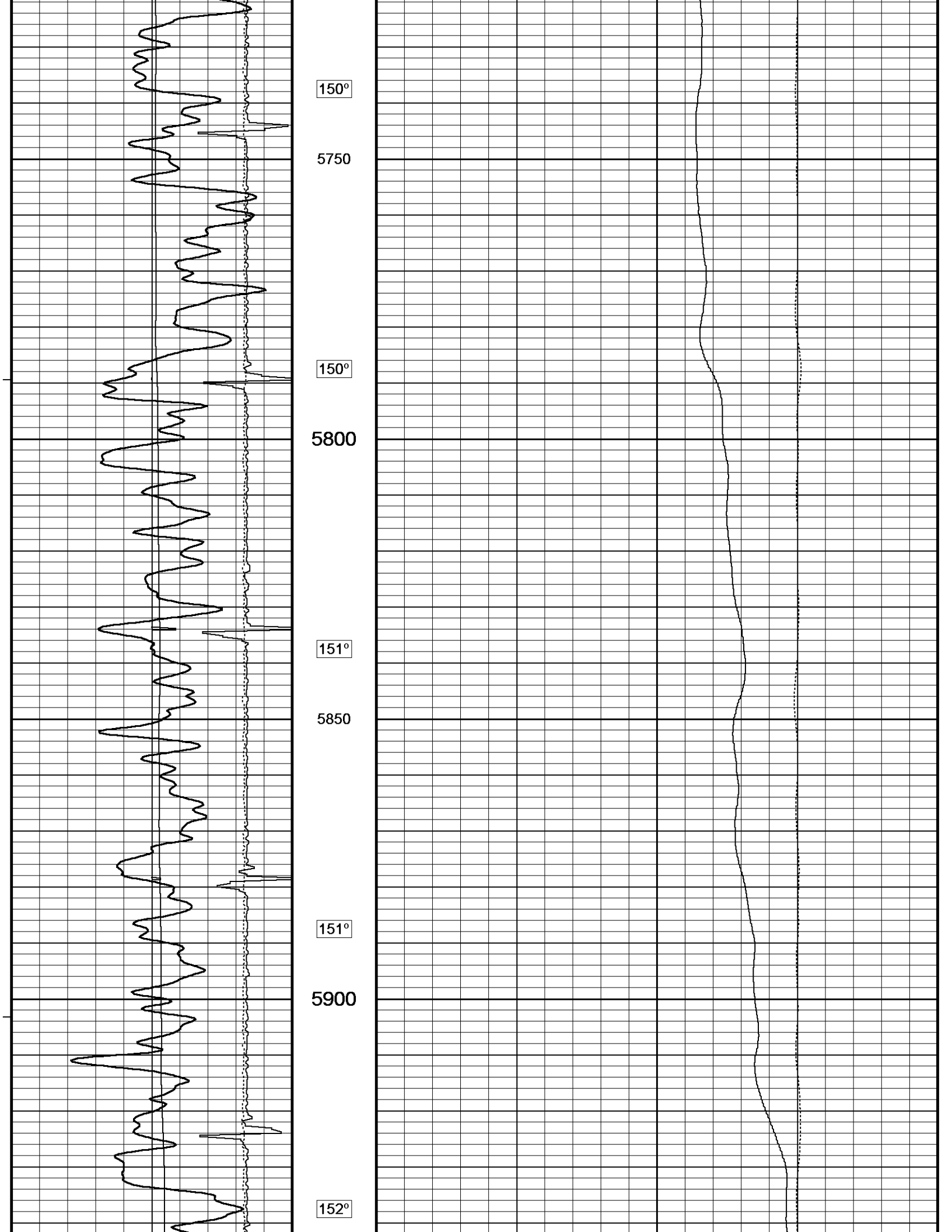
5650

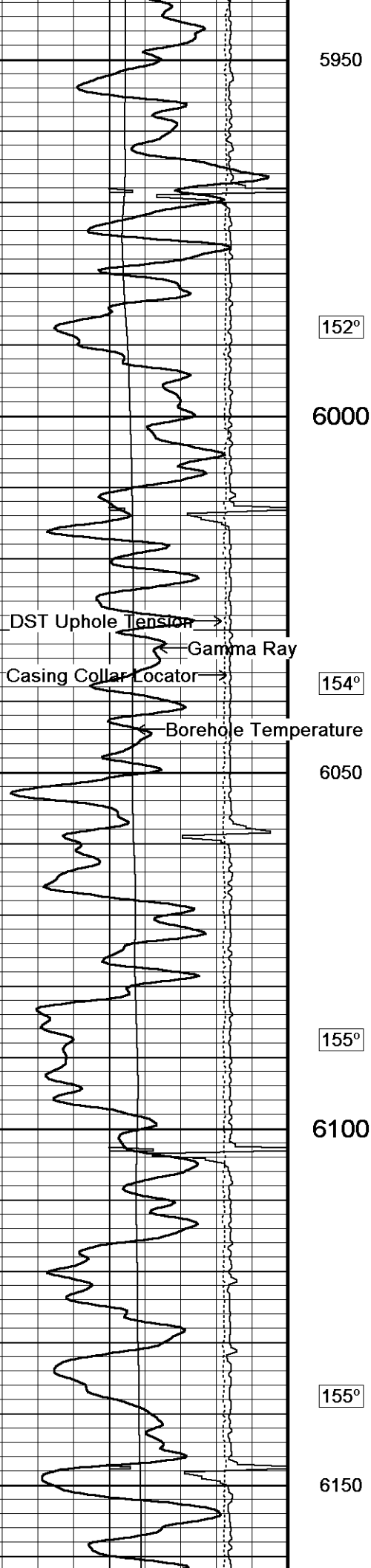
150°

5700

Borehole Temperature →

Differential Temperature →





5950

152°

6000

DST Uphole Tension →

← Gamma Ray

Casing Collar Locator →

154°

← Borehole Temperature

6050

Differential Temperature →

155°

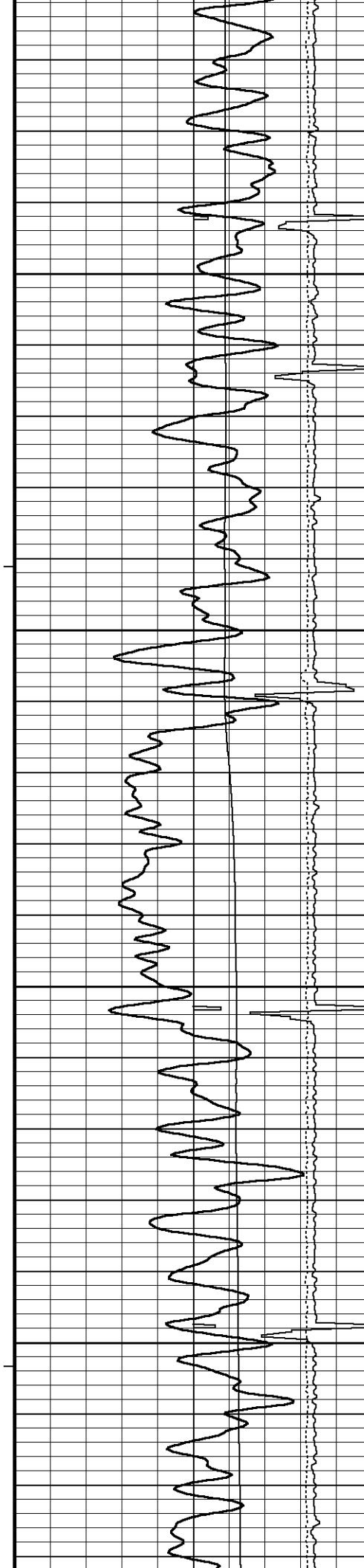
6100

155°

6150

← Borehole Temperature

→ Differential Temperature



156°

6200

156°

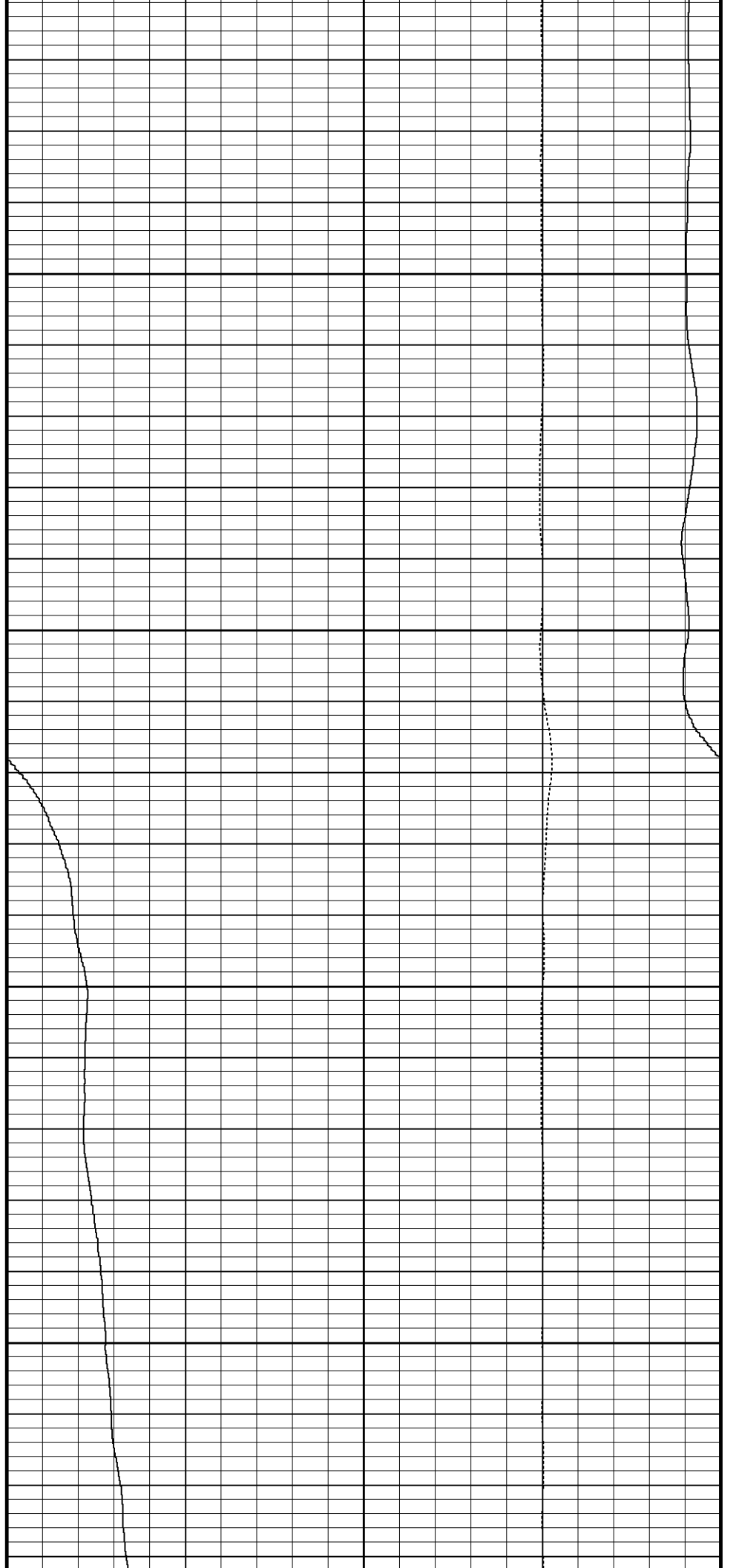
6250

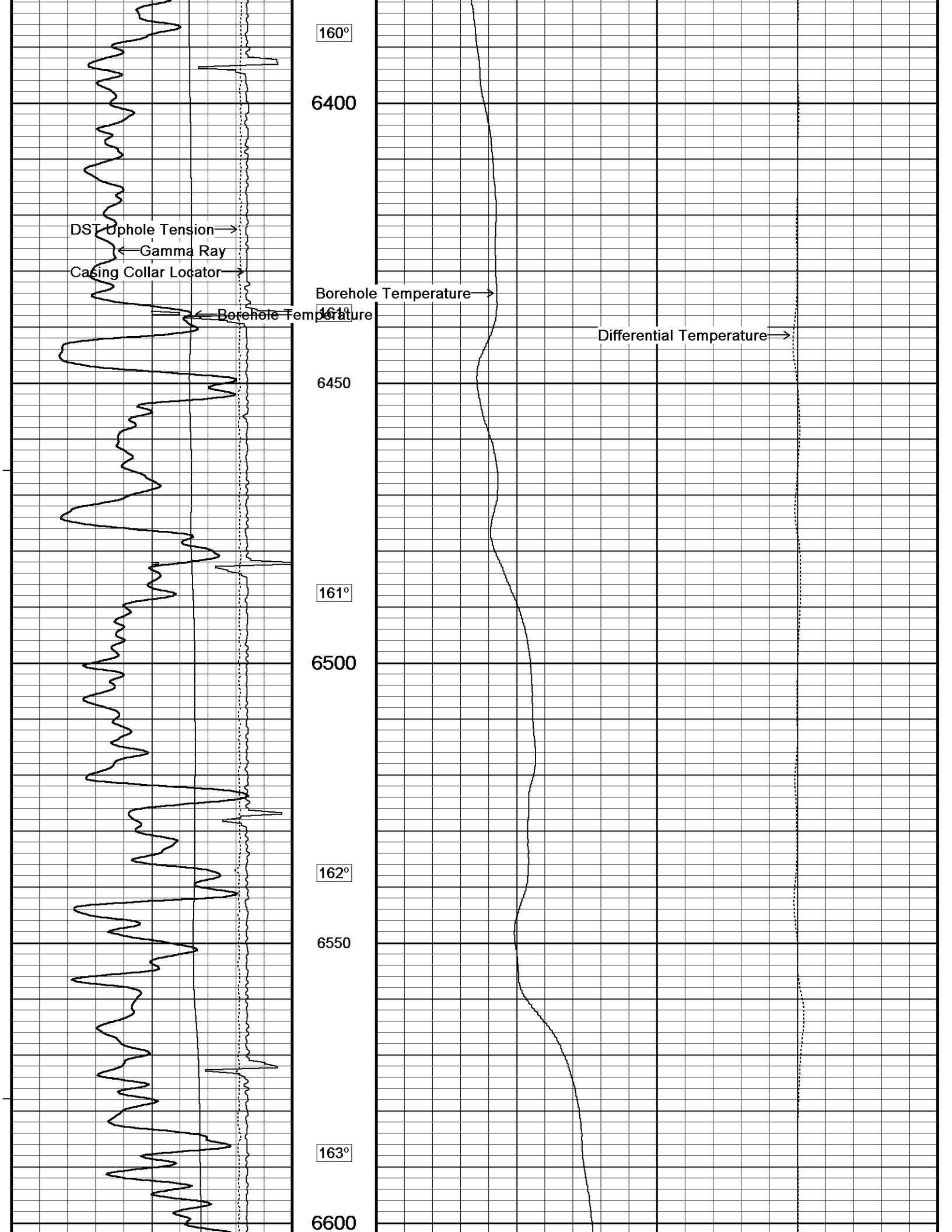
158°

6300

159°

6350





160°

6400

DST Uphole Tension →

← Gamma Ray

Casing Collar Locator →

Borehole Temperature →

← Borehole Temperature

Differential Temperature →

6450

161°

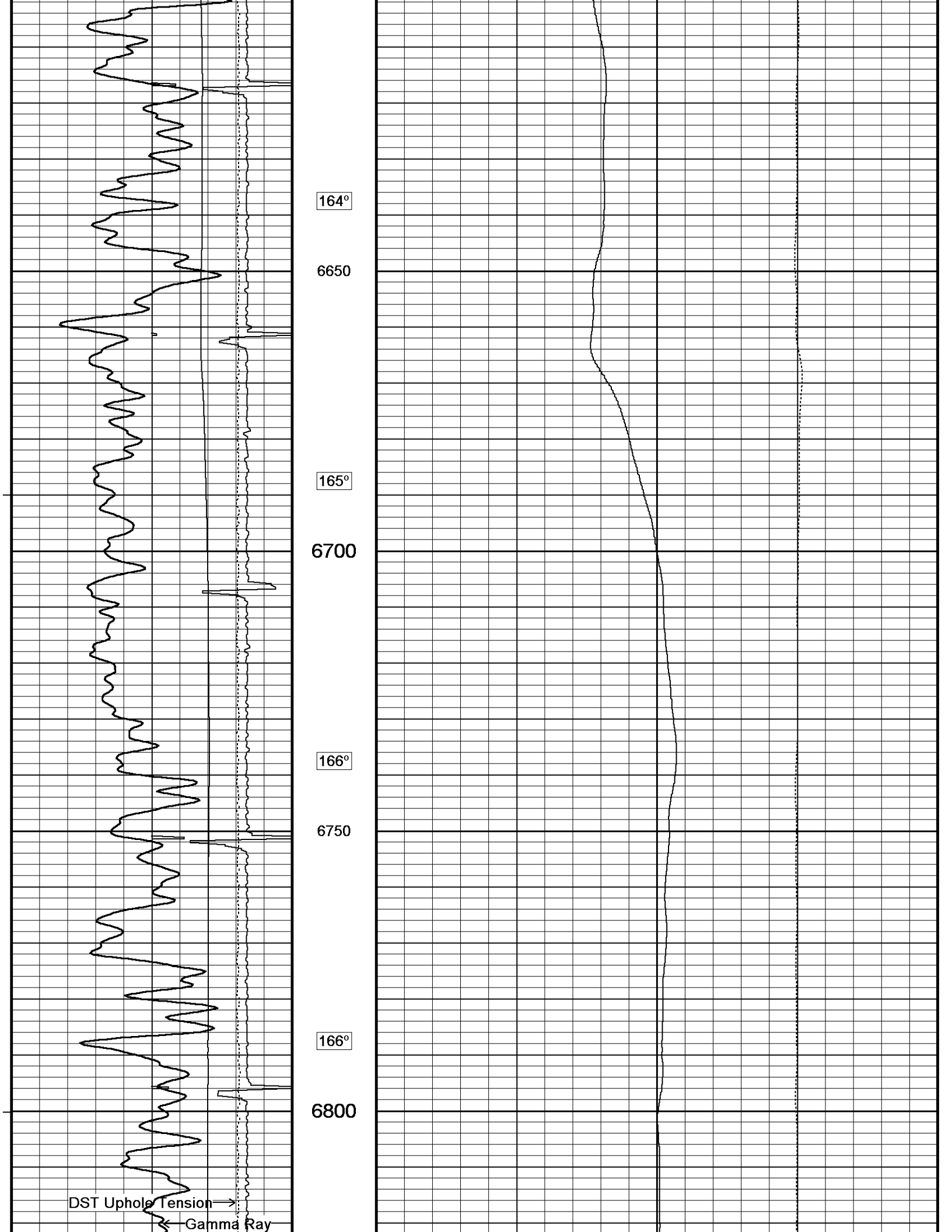
6500

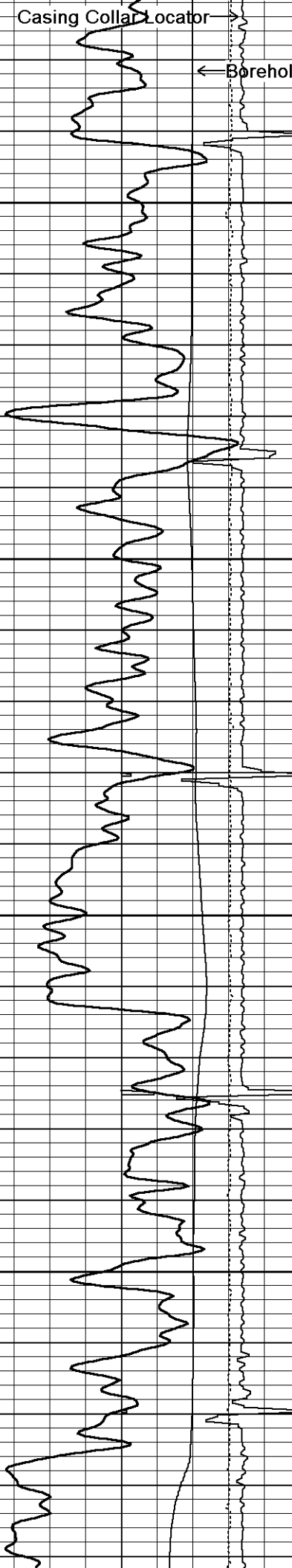
162°

6550

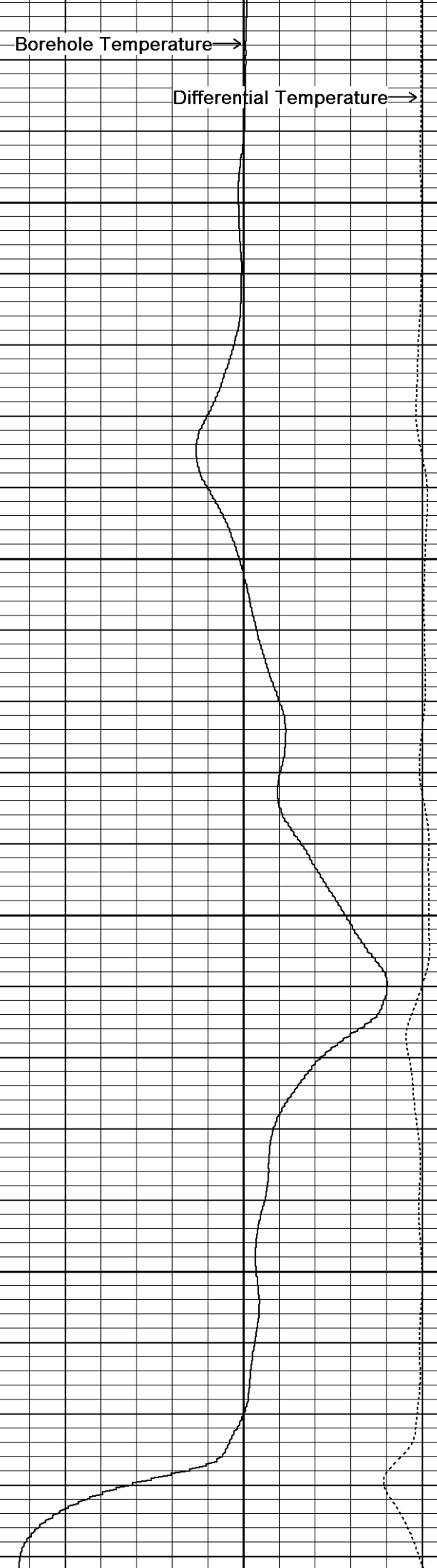
163°

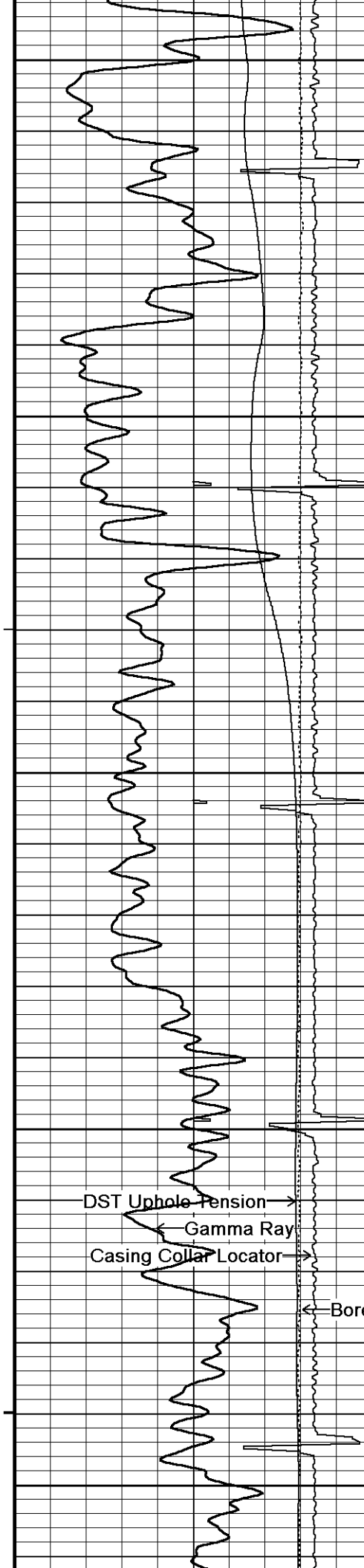
6600



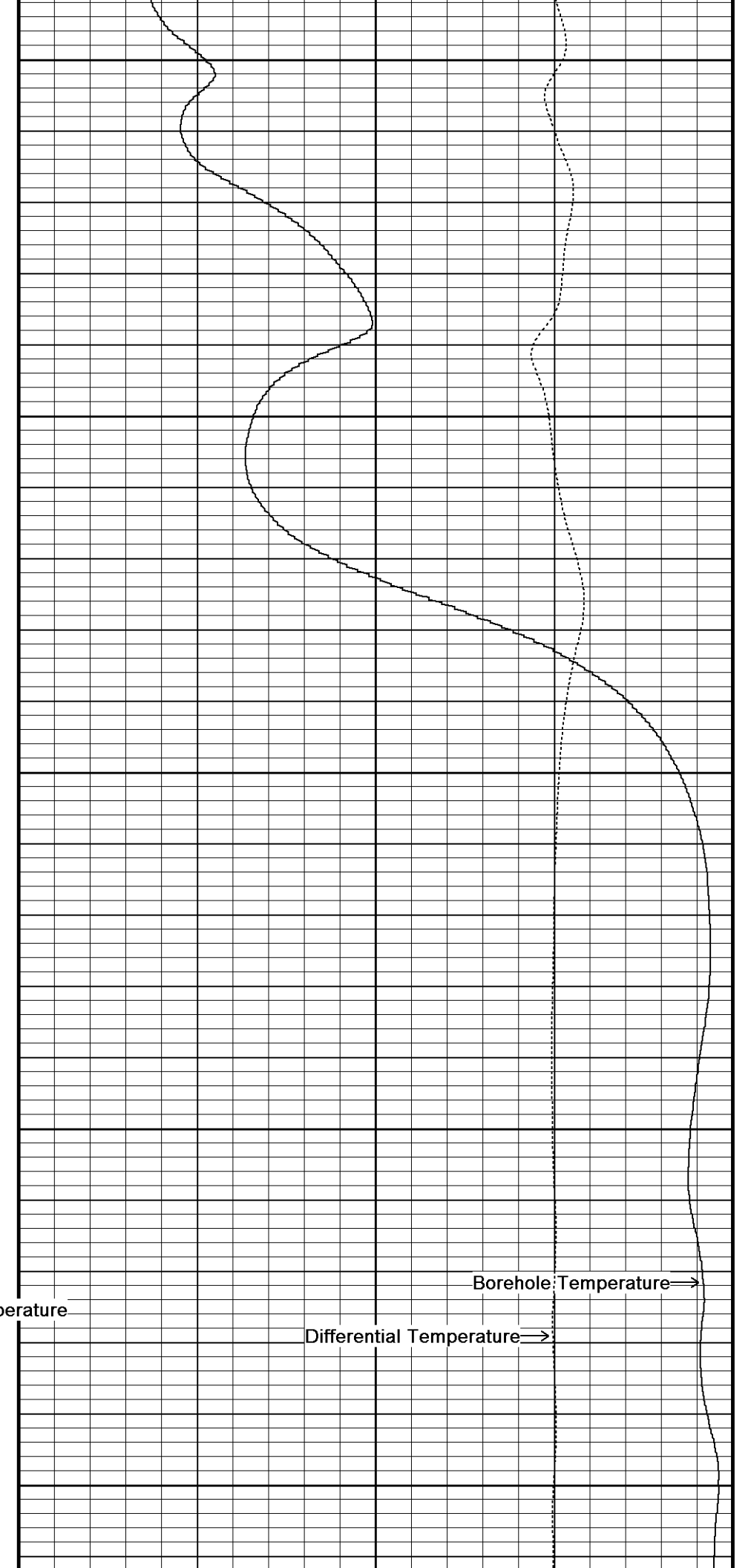


166°
6850
165°
6900
166°
6950
167°
7000
164°

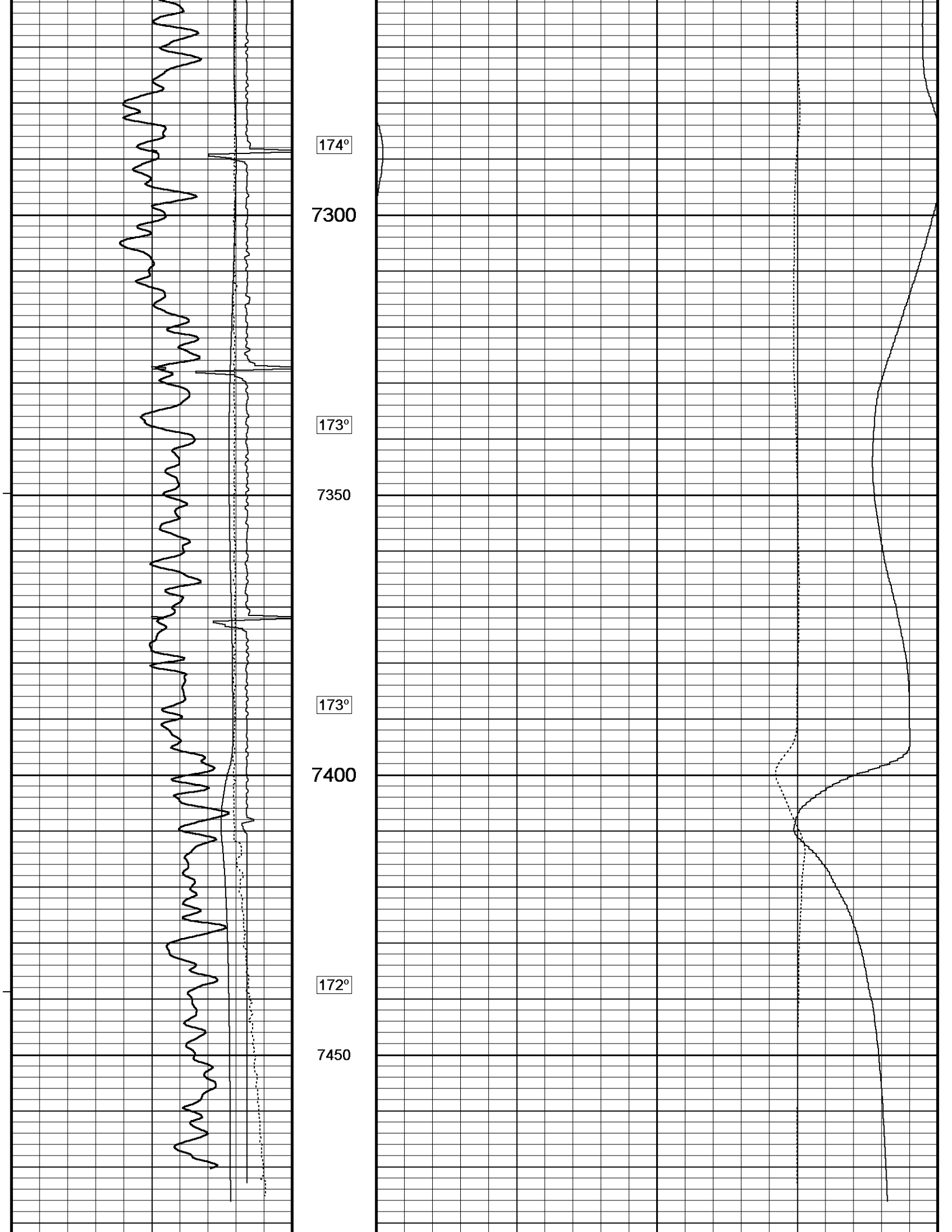


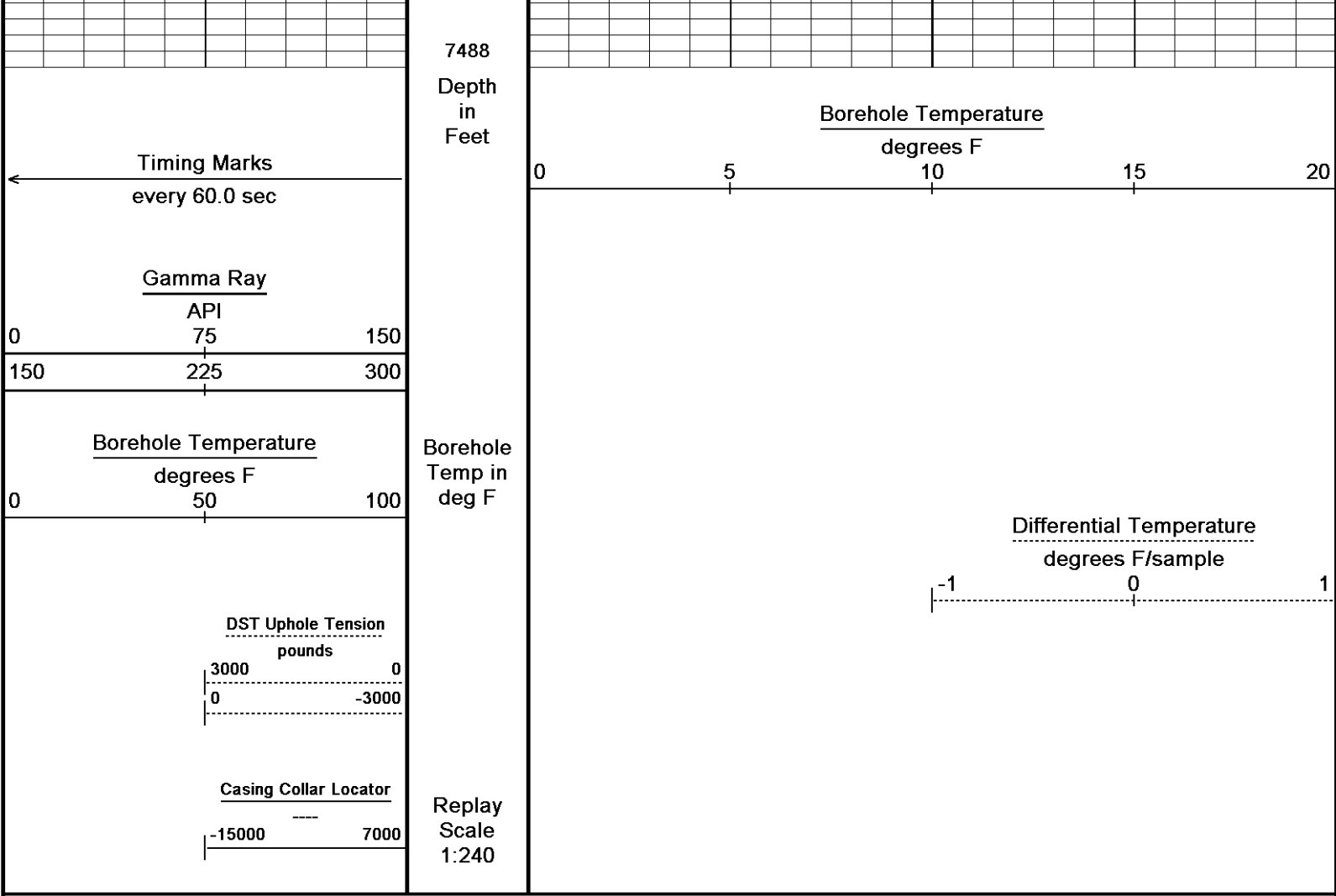


7050
165°
7100
168°
7150
173°
7200
173°
7250



DST Uphole Tension →
← Gamma Ray
Casing Collar Locator →
← Borehole Temperature
Differential Temperature →
Borehole Temperature →





Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-FEB-2011 20:21
 Filename: C:\Minimus\Logs\Bill Barrett Temp\GGU Swanson 32D-29-691\temp.dta Recorded on 23-FEB-2011 18:24
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

↑ **5 INCH MAIN LOG** ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus\Logs\Bill Barrett Temp\GGU Swanson 32D-29-691\temp.dta

General Constants All 000 Last Edited on 23-FEB-2011,16:55

General Parameters		
Mud Resistivity	4.000	ohm-metres
Mud Resistivity Temperature	80.000	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 23-FEB-2011 18:20

Reading No	Measured	Calibrated (lbs)
1	15801.33	0.00

High Resolution Temperature Calibration MCG-C 192

Field Calibration on 18-FEB-2011,09:26

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-C 192

Last Edited on 13-DEC-2010,09:50

Pre-filter Length 11

SP Calibration MCG-C 192

Field Calibration on 22-FEB-2011,20:05

	Measured	Calibrated (mV)
Reference 1	100.9	100.0
Reference 2	-100.2	-100.0

Gamma Calibration MCG-C 192

Field Calibration on 23-FEB-2011 16:55

	Measured	Calibrated (API)
Background	102	70
Calibrator (Gross)	1436	982
Calibrator (Net)	1334	912

Gamma Constants MCG-C 192

Last Edited on 23-FEB-2011,16:49

Gamma Calibrator Number	912	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Calibration MHT-A 11

Field Calibration on 23-FEB-2011,16:55

	Measured	Calibrated(Deg F)
Lower	80.57	61.00
Upper	140.33	129.00

High Resolution Temperature Constants MHT-A 11

Last Edited on 09-JUN-2010,04:47

Pre-filter Length 11

DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Bill Barrett Temp\GGU Swanson 32D-29-691\temp.dta

3/8" Triple Cone Cable Head (MCB F B)
MCB-F.B 9 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-C 192 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
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 SWANSON 32D-29-691

FIELD

GIBSON GULCH

PROVINCE/COUNTY

GARFIELD

PROVINCE/COUNTY GARFIELD

COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7467.00	feet
Elevation Drill Floor	6126.00	feet	Depth Driller	7467.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7467.00	feet



Weatherford[®]

TEMPERATURE LOG

