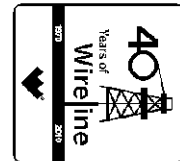




Weatherford[®]

TEMPERATURE LOG

COMPANY **BILL BARRETT CORPORATION**
 WELL **GGU FEDERAL 34A-20-691**
 FIELD **GIBSON GULCH**
 PROVINCE/COUNTY **GARFIELD**
 COUNTRY/STATE **U.S.A. / COLORADO**
 LOCATION **SHL: 1212' FNL & 1338' FEL**
BHL: 165' FSL & 1990' FEL



SEC 20 TWP 6S RGE 91W Other Services
 API Number 05-045-19805
 Permit Number
 Permanent Datum G.L., Elevation 6104 feet
 Log Measured From K.B. @ 23 FEET above Permanent Datum
 Drilling Measured From K.B.

Elevations: feet
 KB 6127.00
 DF 6126.00
 GL 6104.00

Date	2-MAR-2011	
Run Number	ONE	
Depth Driller	7586.00	feet
Depth Logger	7586.00	feet
First Reading	7689.00	feet
Last Reading	200.00	feet
Casing Driller	764.00	feet
Casing Logger	764.00	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	197.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13173	GDJCT
Recorded By	J.GARCIA	
Witnessed By	C.CROW	

BOREHOLE RECORD

Last Edited: 02-MAR-2011 09:41

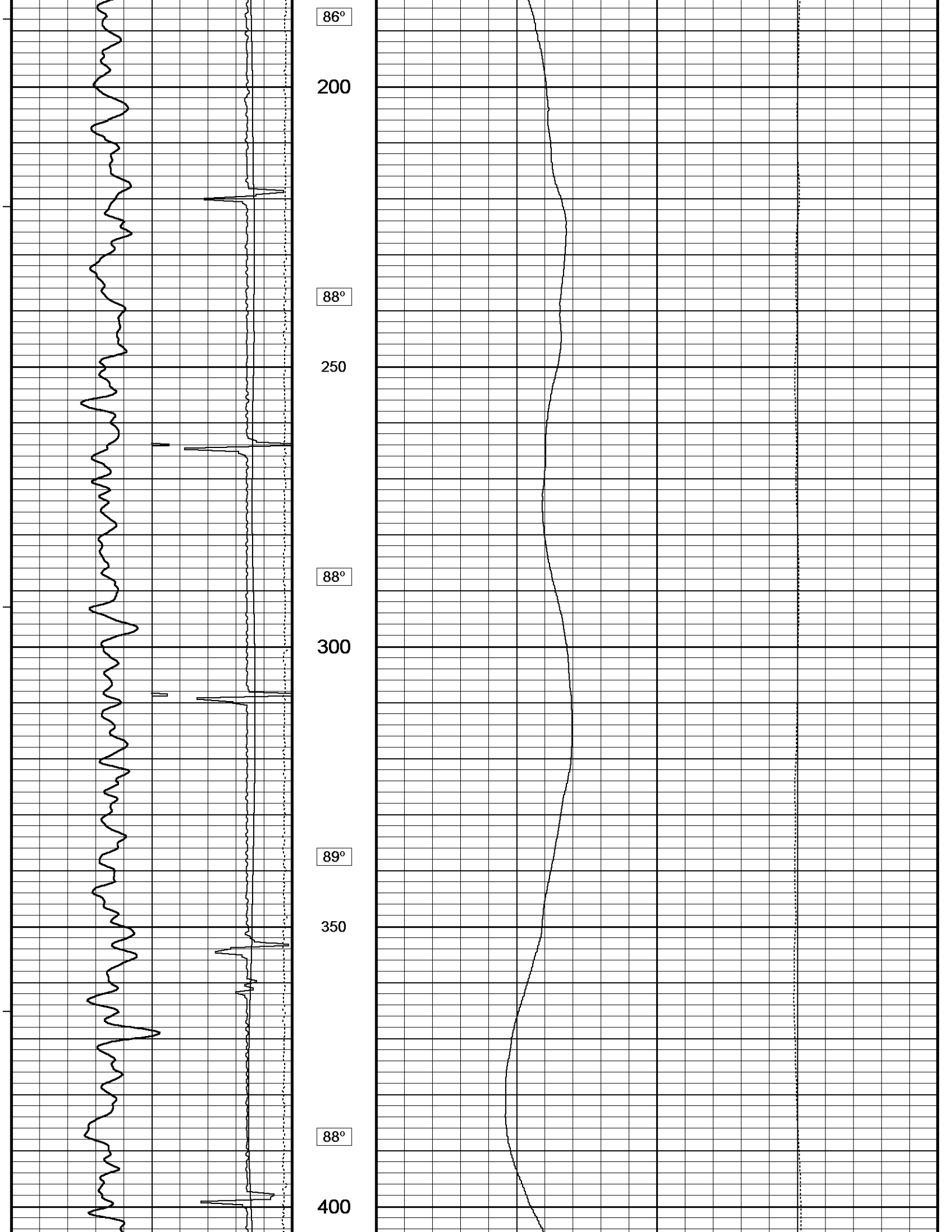
Bit Size inches	Depth From feet	Depth To feet
8.750	768.00	7640.00

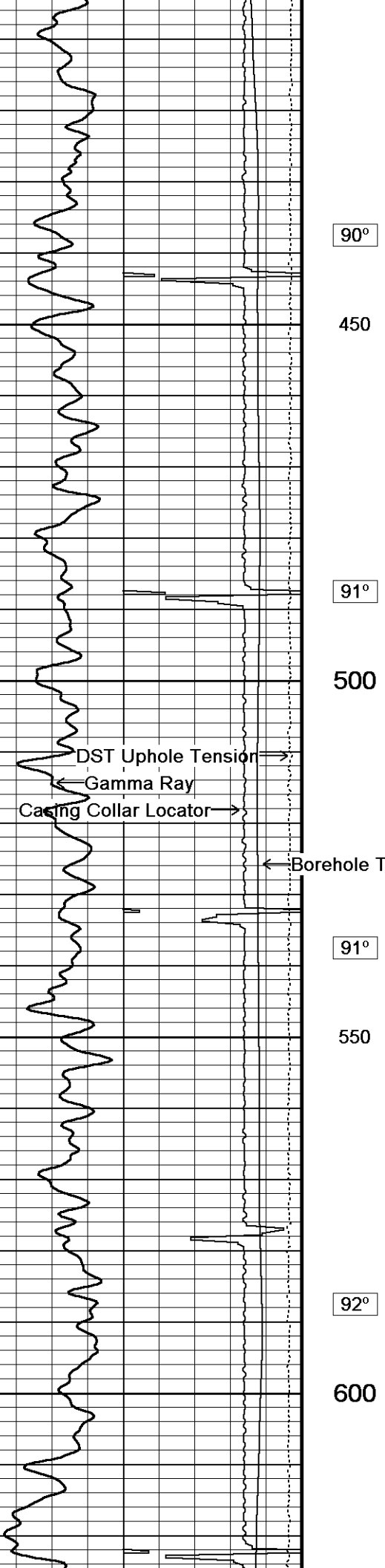
CASING RECORD

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	7640.00	11.60

REMARKS

TOP OF CEMENT IS APPROXIMATELY 3100 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, D.DALEY
 RIG: PATTERSON 307
 SERVICE ORDER #3524854





90°

450

91°

500

91°

550

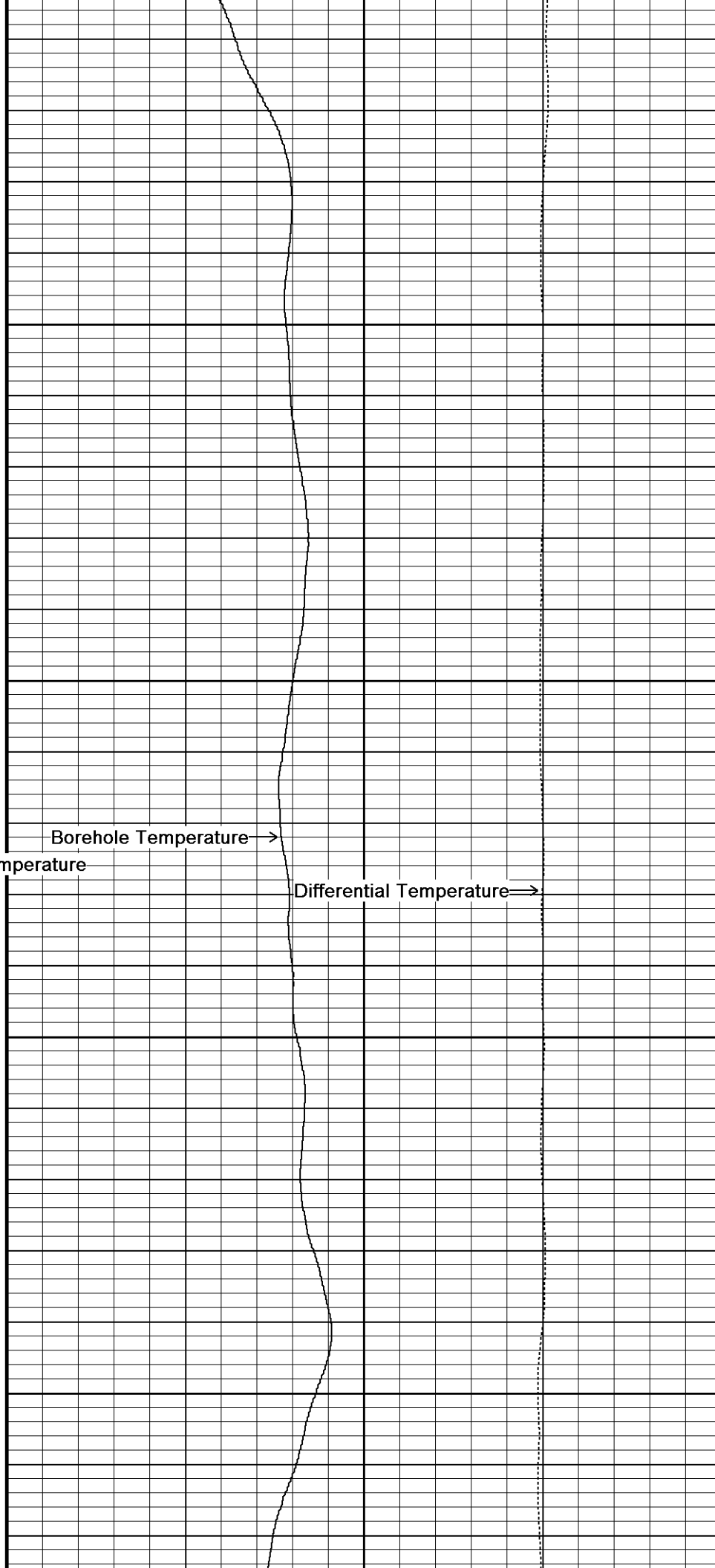
92°

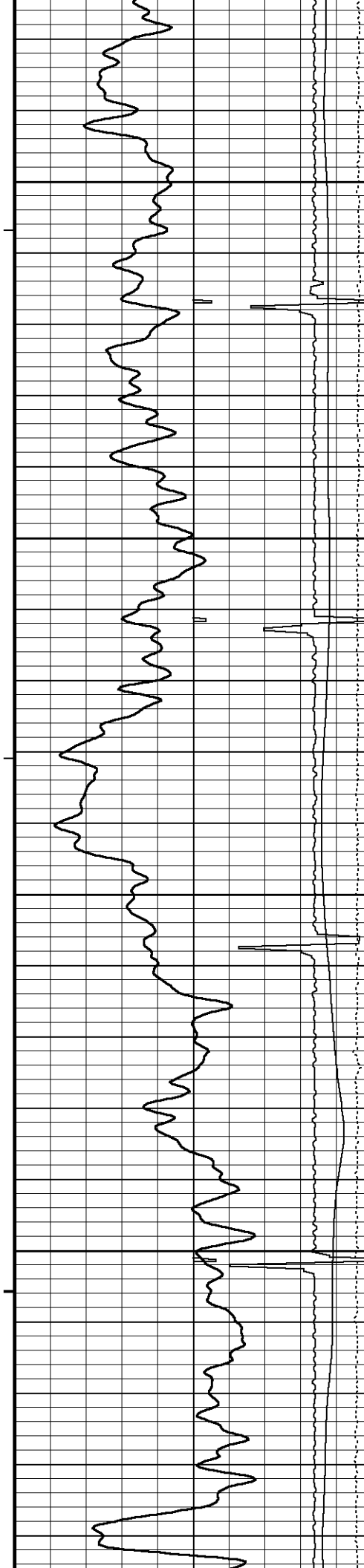
600

DST Uphole Tension →
← Gamma Ray
Casing Collar Locator →

← Borehole Temperature →

Differential Temperature →





90°

650

91°

700

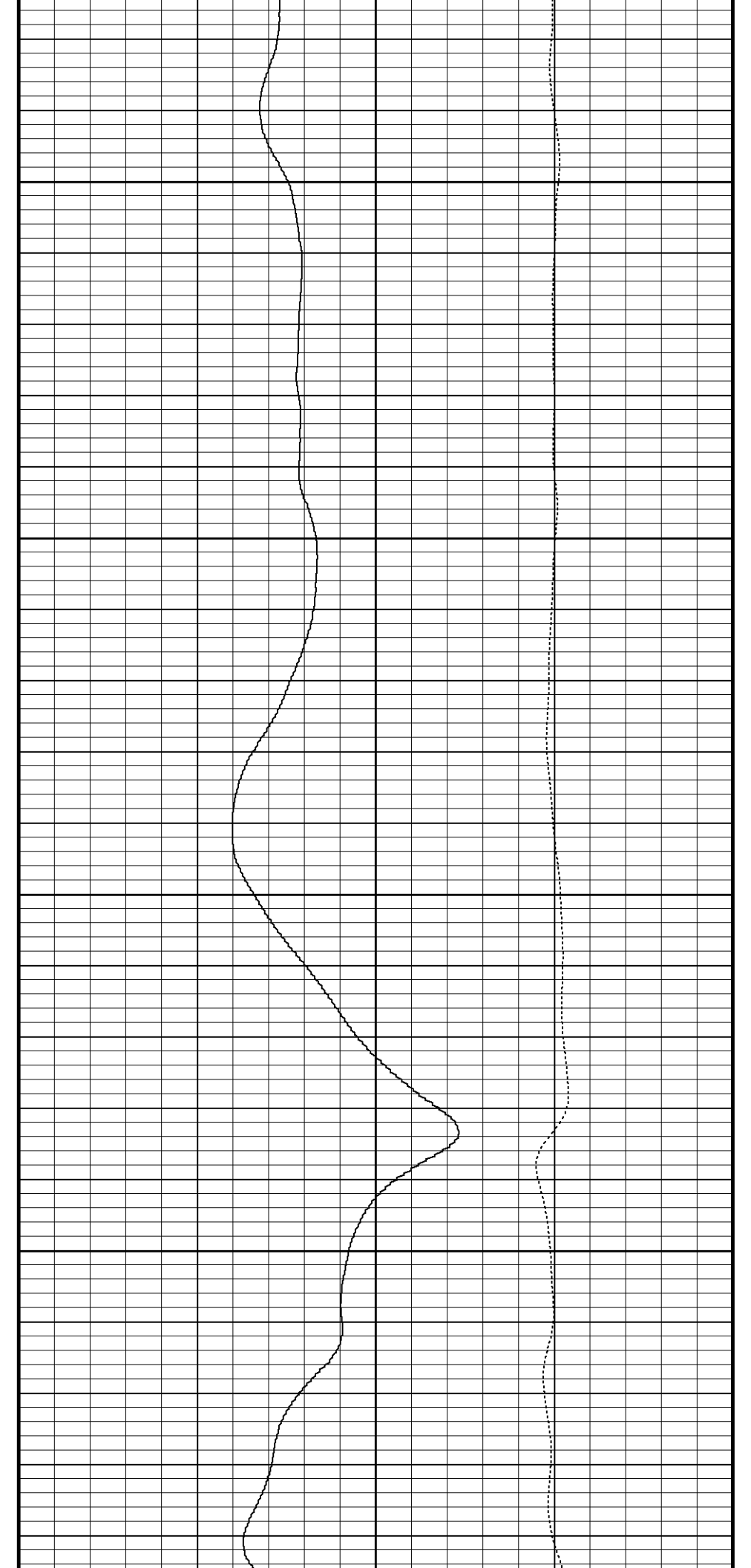
90°

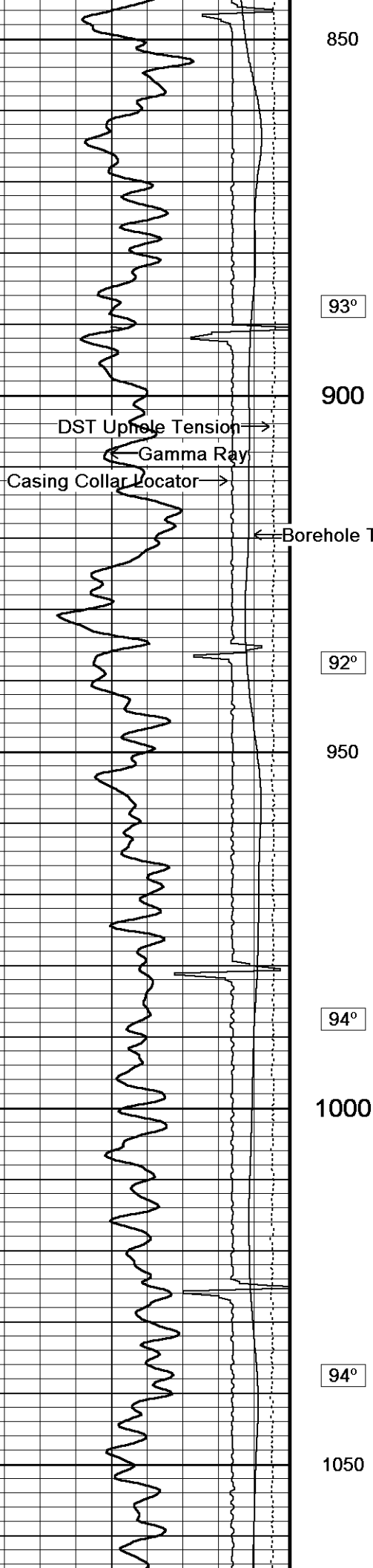
750

94°

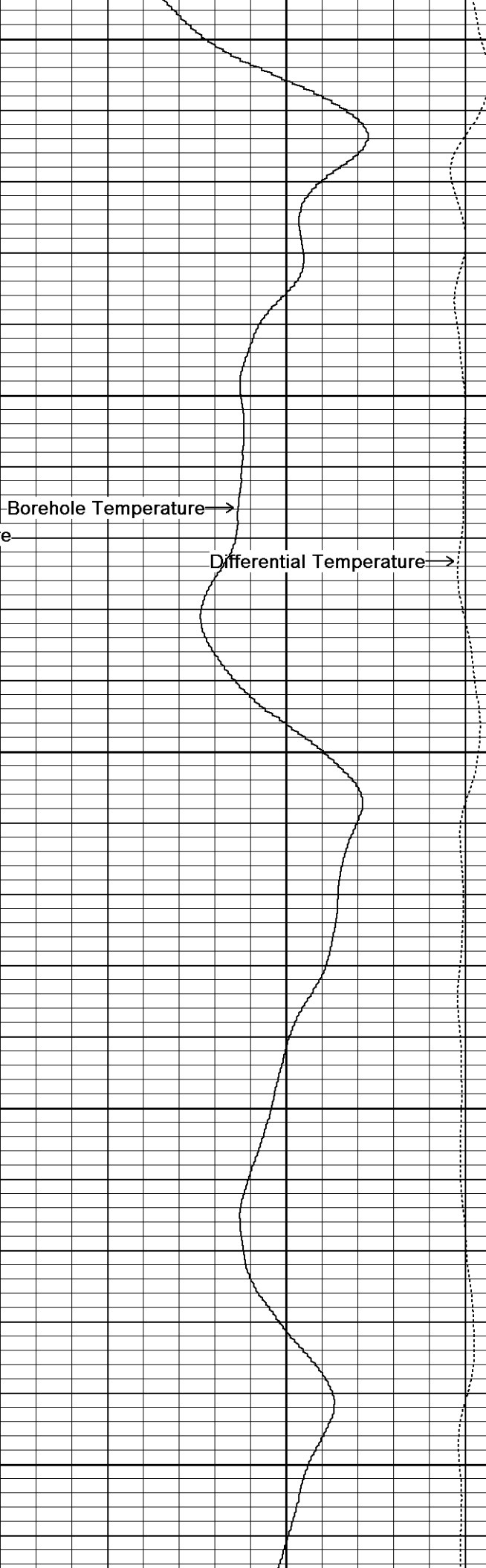
800

91°

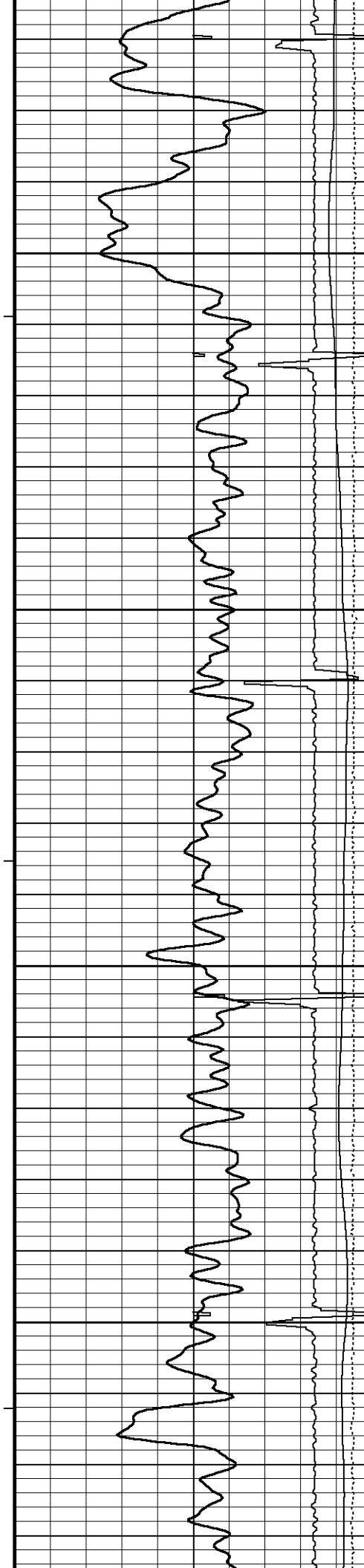




850
93°
900
92°
950
94°
1000
94°
1050



Borehole Temperature
Differential Temperature



93°

1100

94°

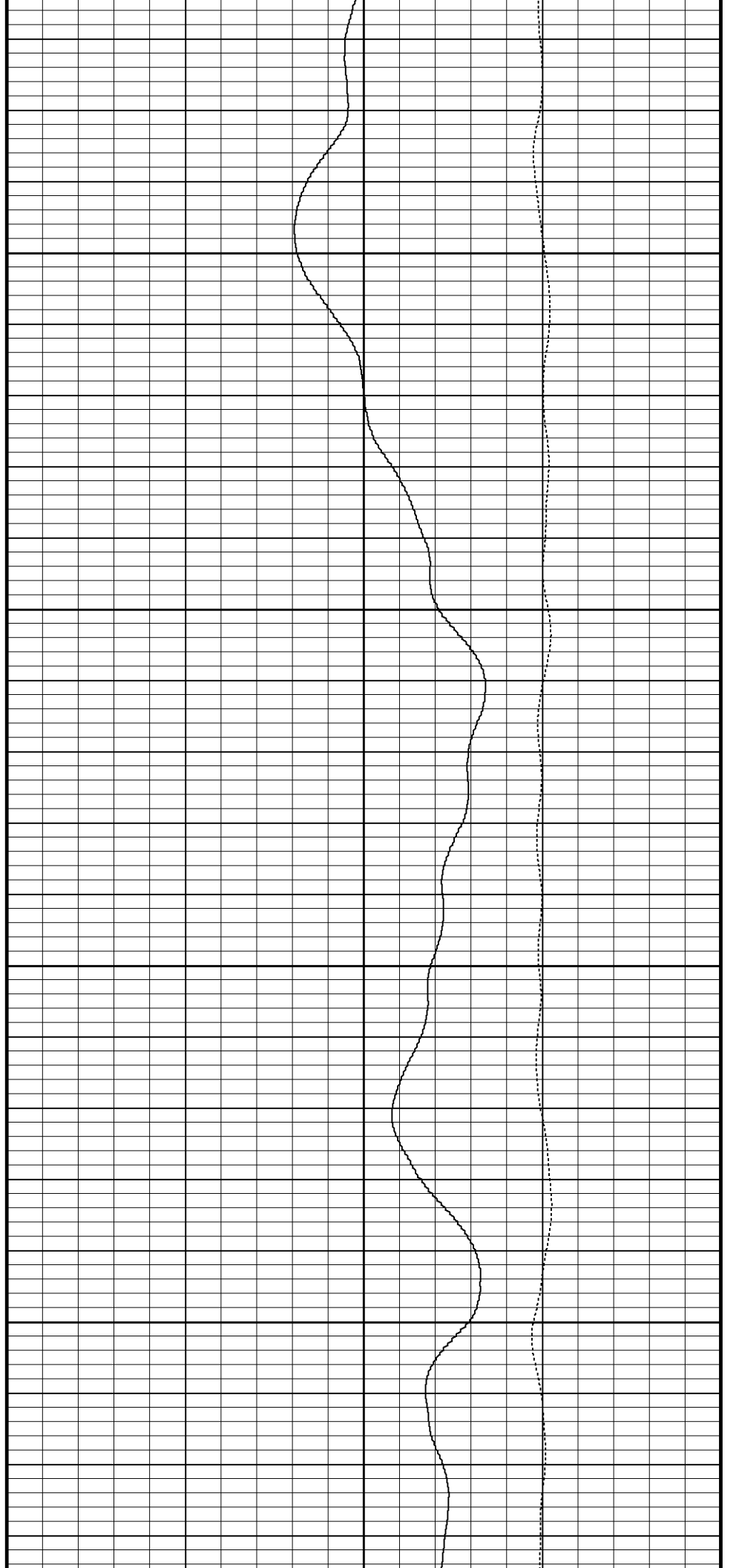
1150

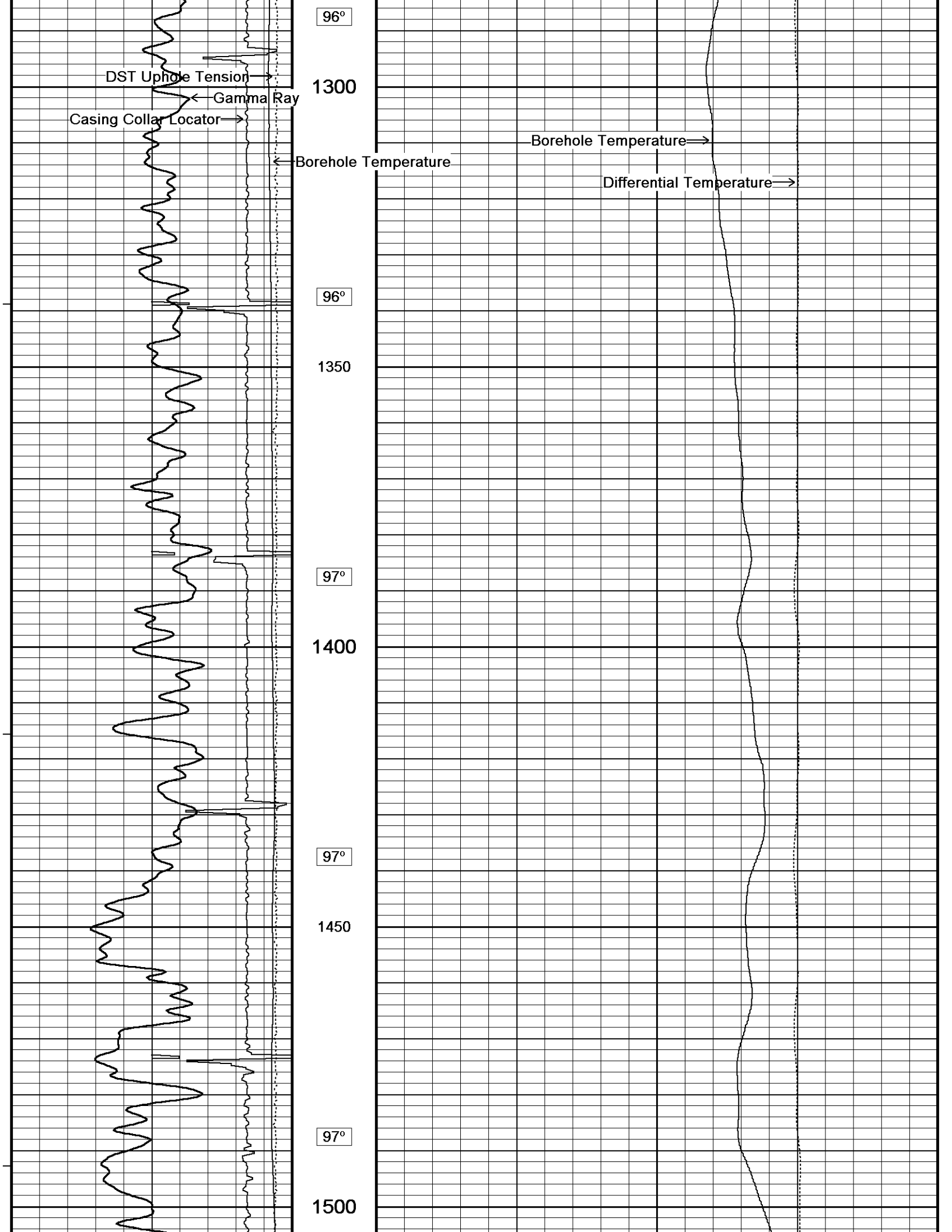
96°

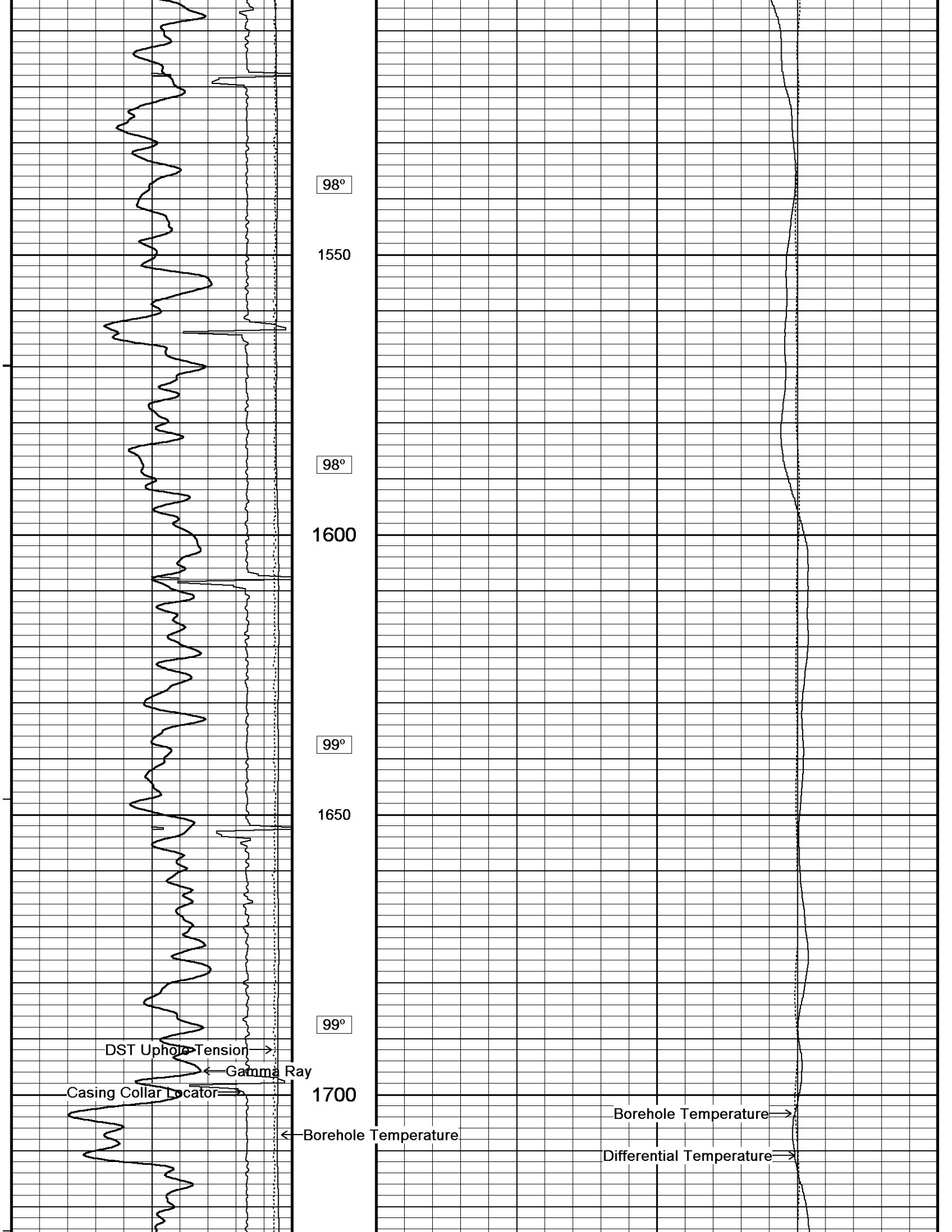
1200

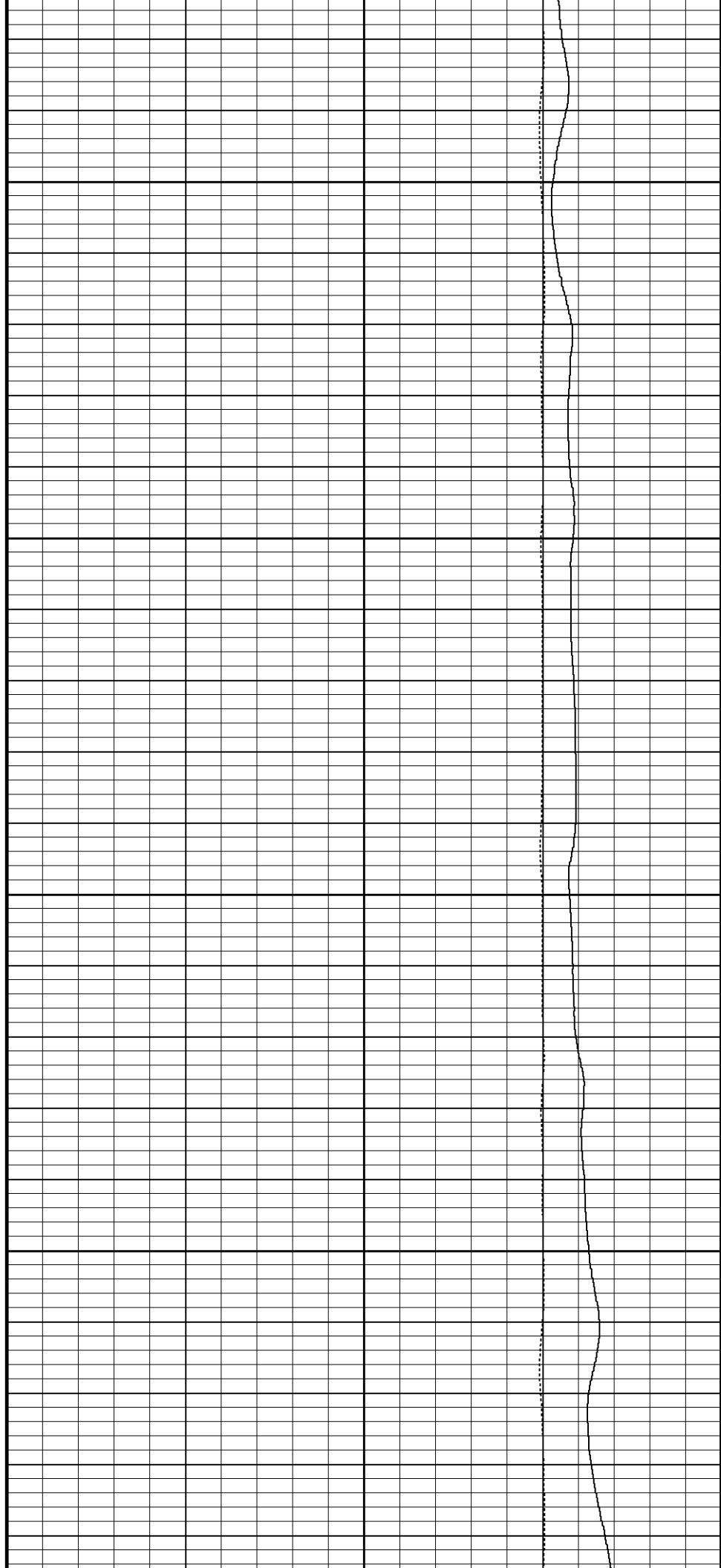
96°

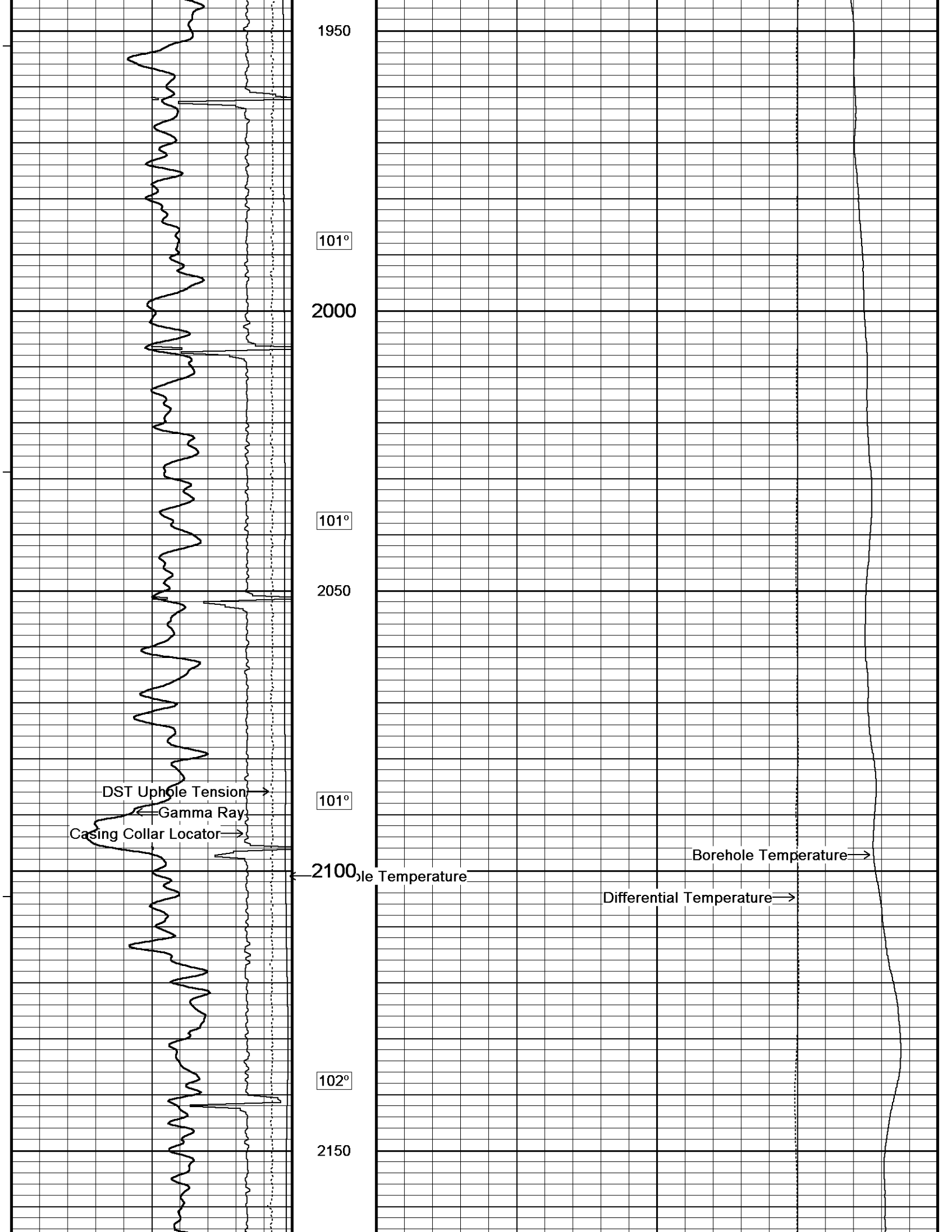
1250

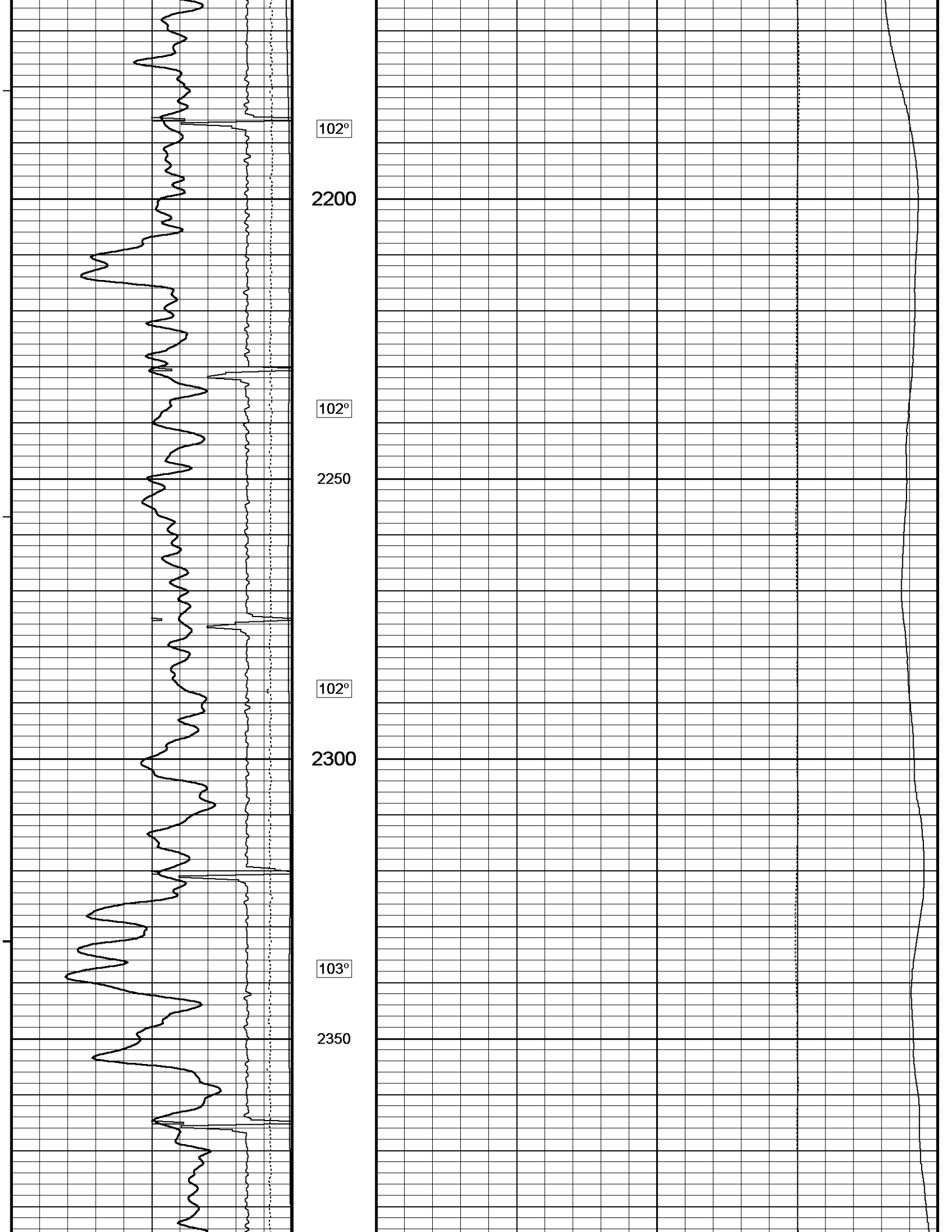


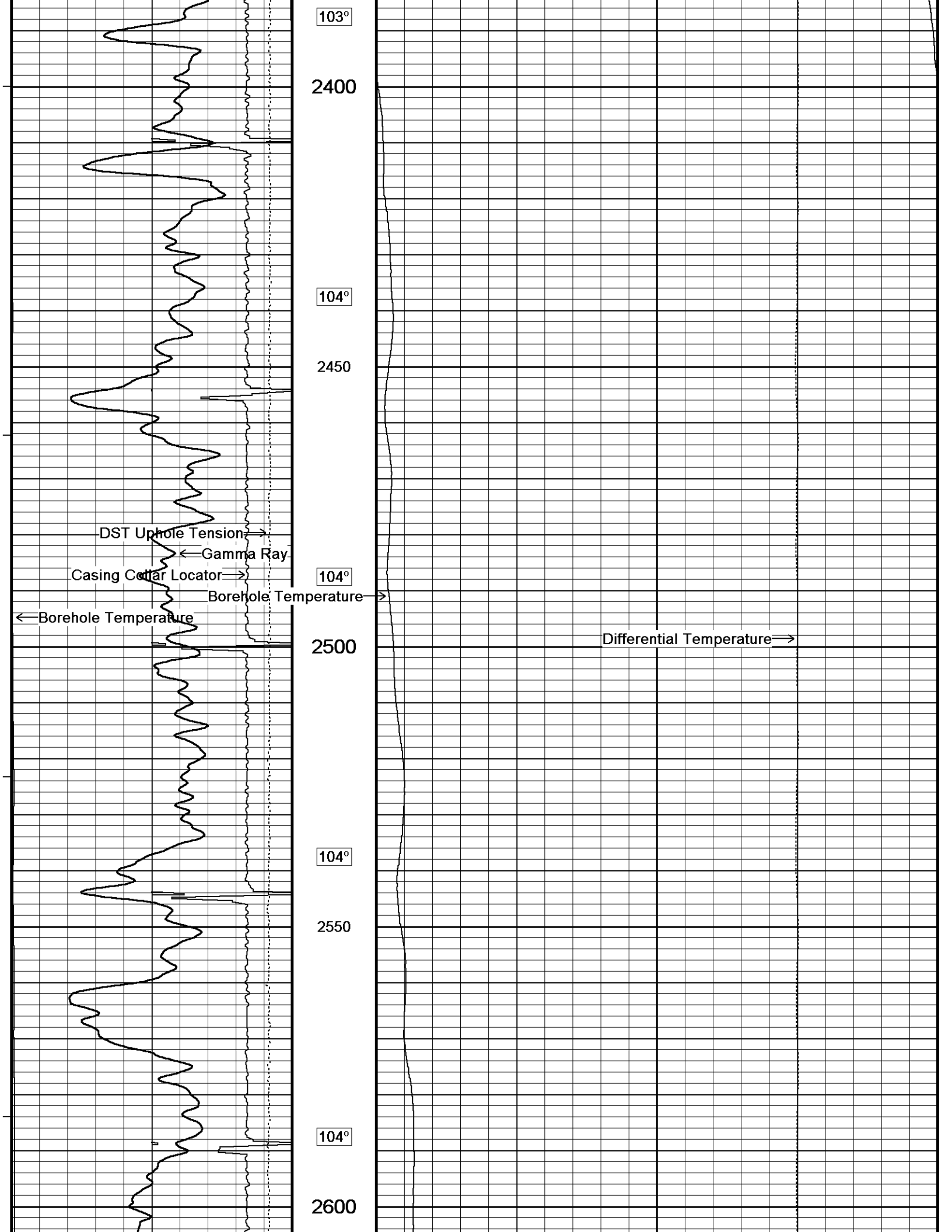


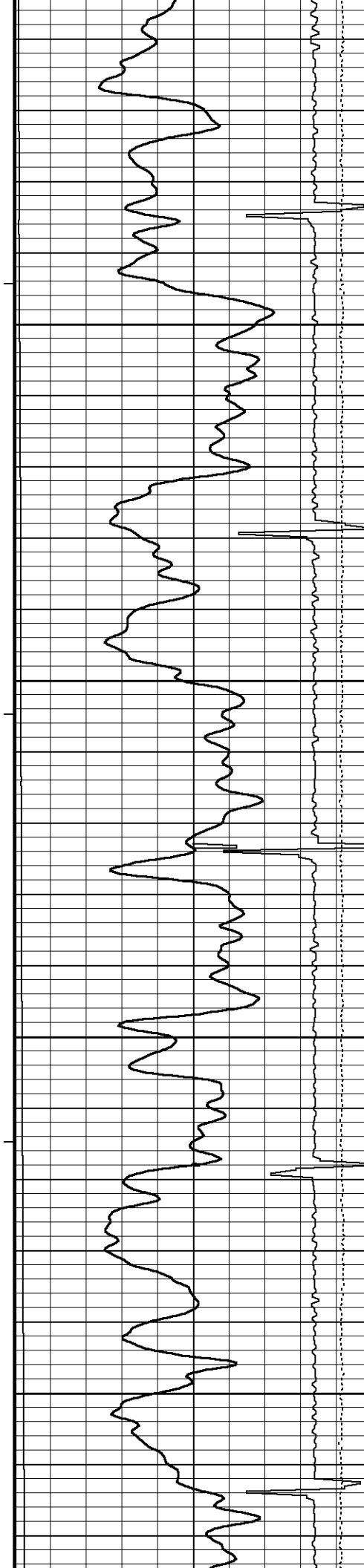












105°

2650

105°

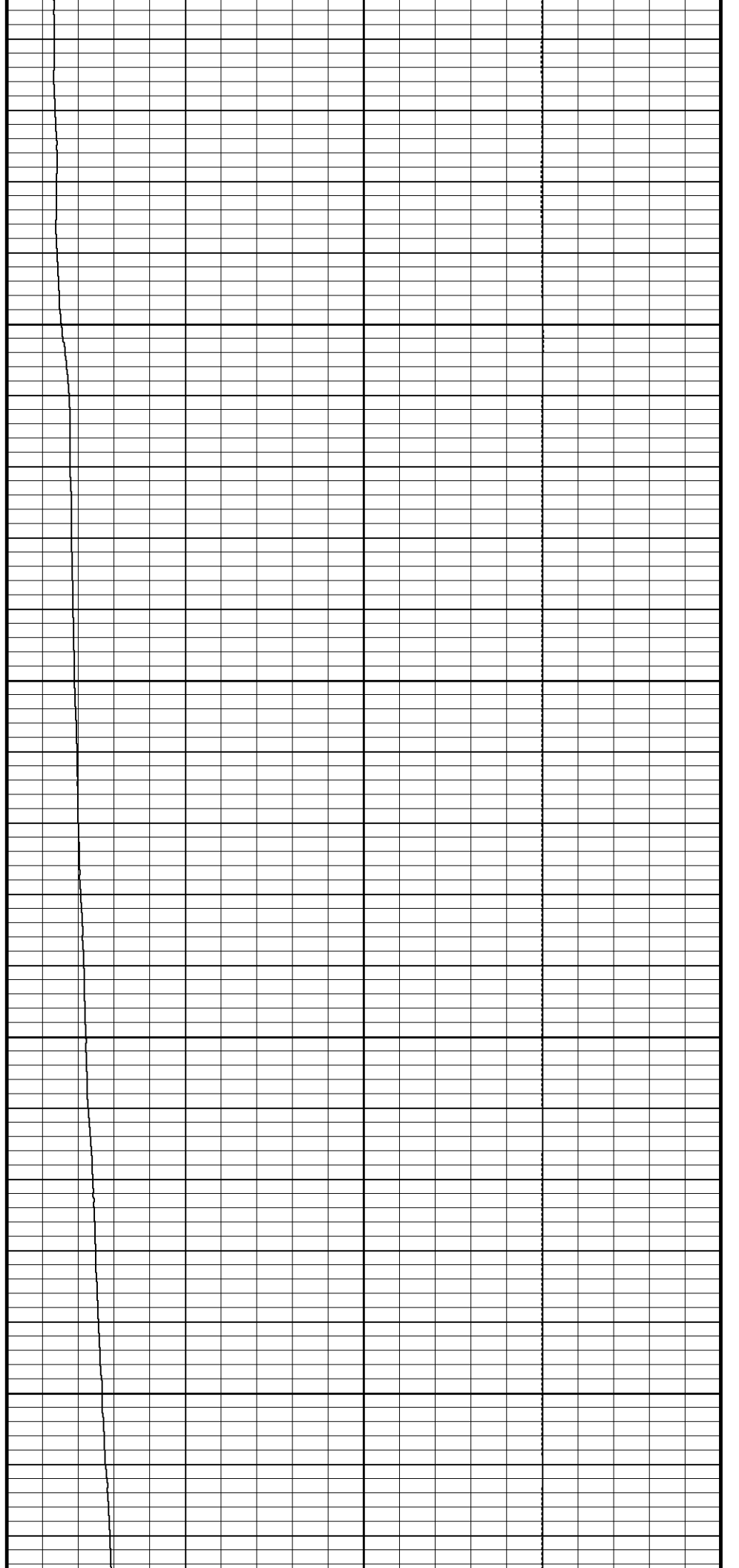
2700

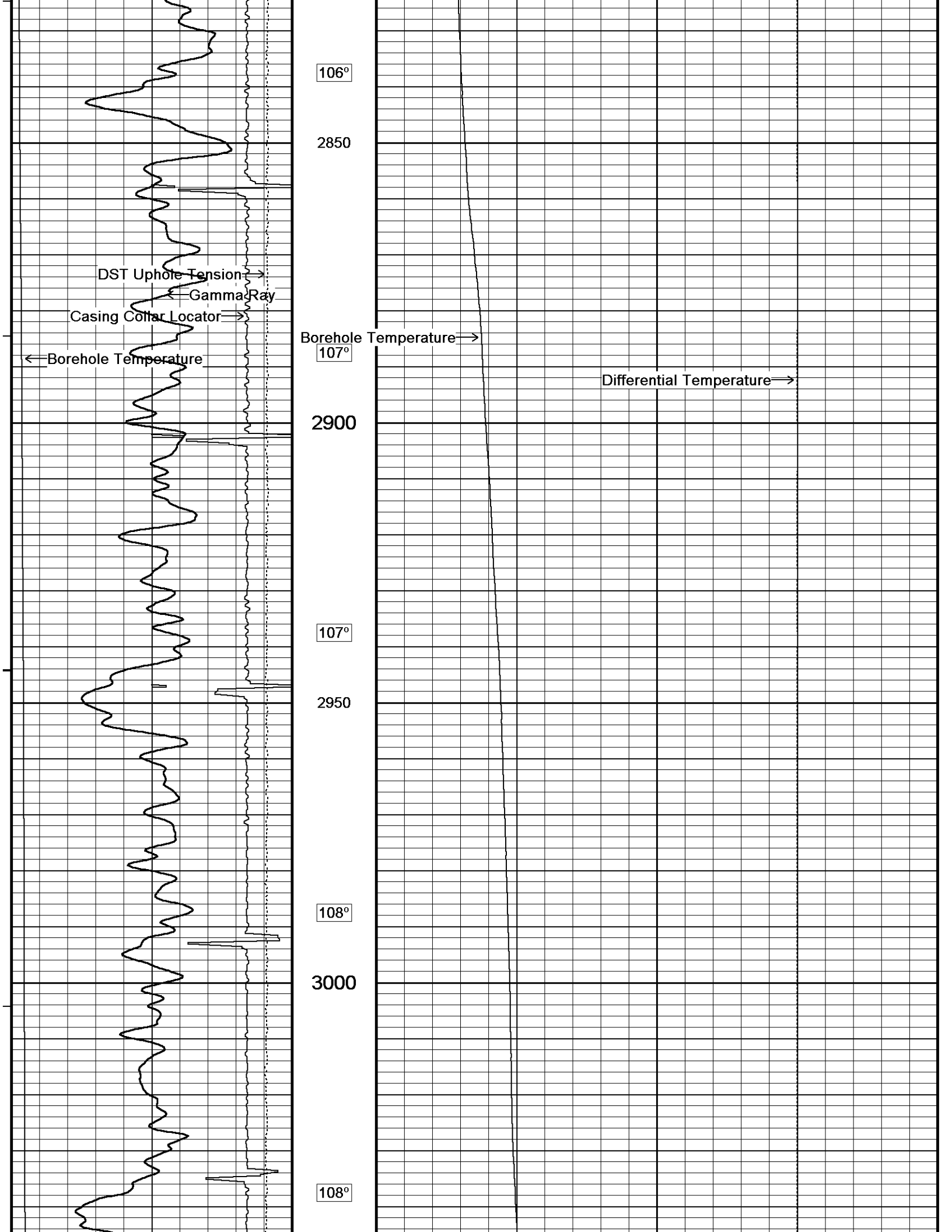
105°

2750

106°

2800





106°

2850

DST Uphole Tension →

← Gamma Ray

Casing Collar Locator →

← Borehole Temperature

Borehole Temperature →

107°

Differential Temperature →

2900

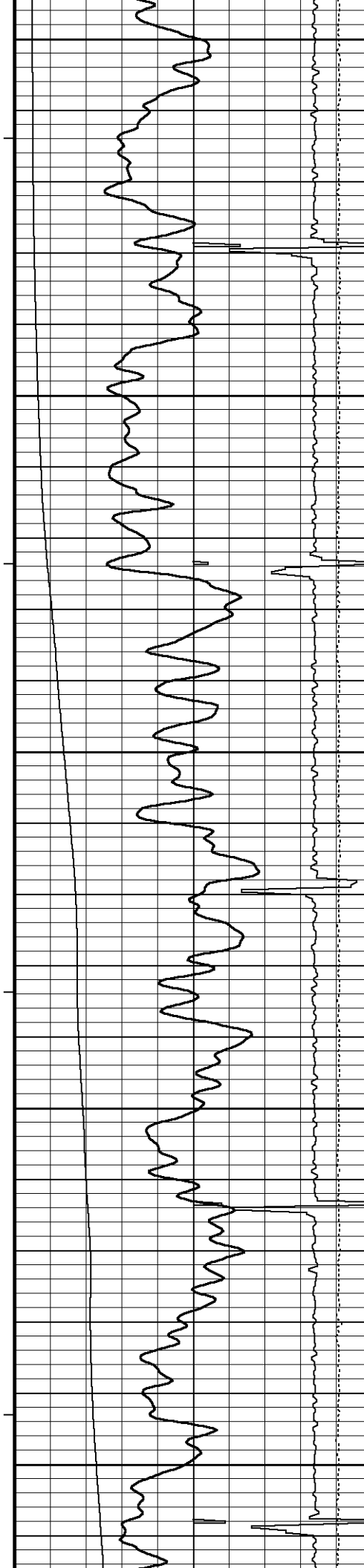
107°

2950

108°

3000

108°



3050

109°

3100

113°

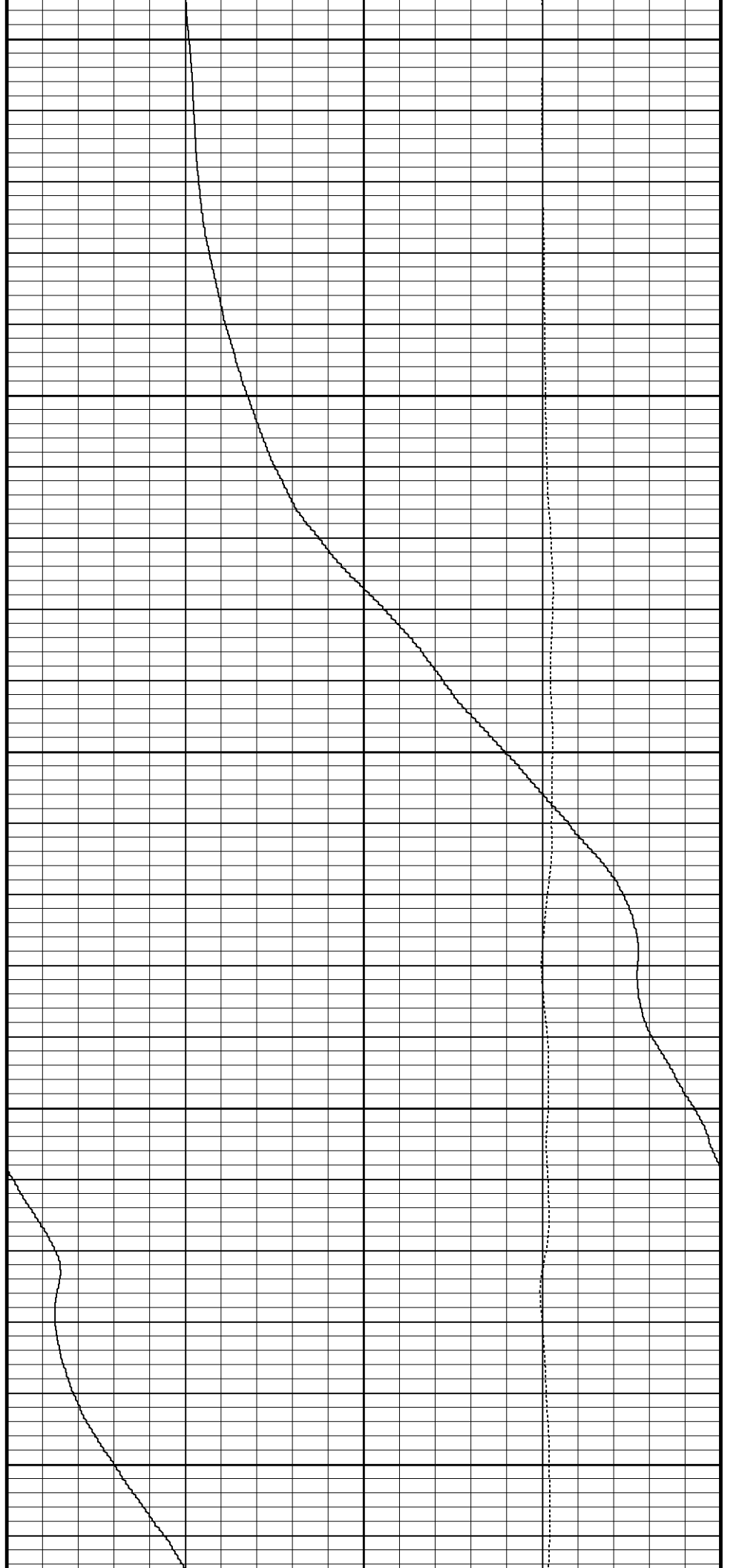
3150

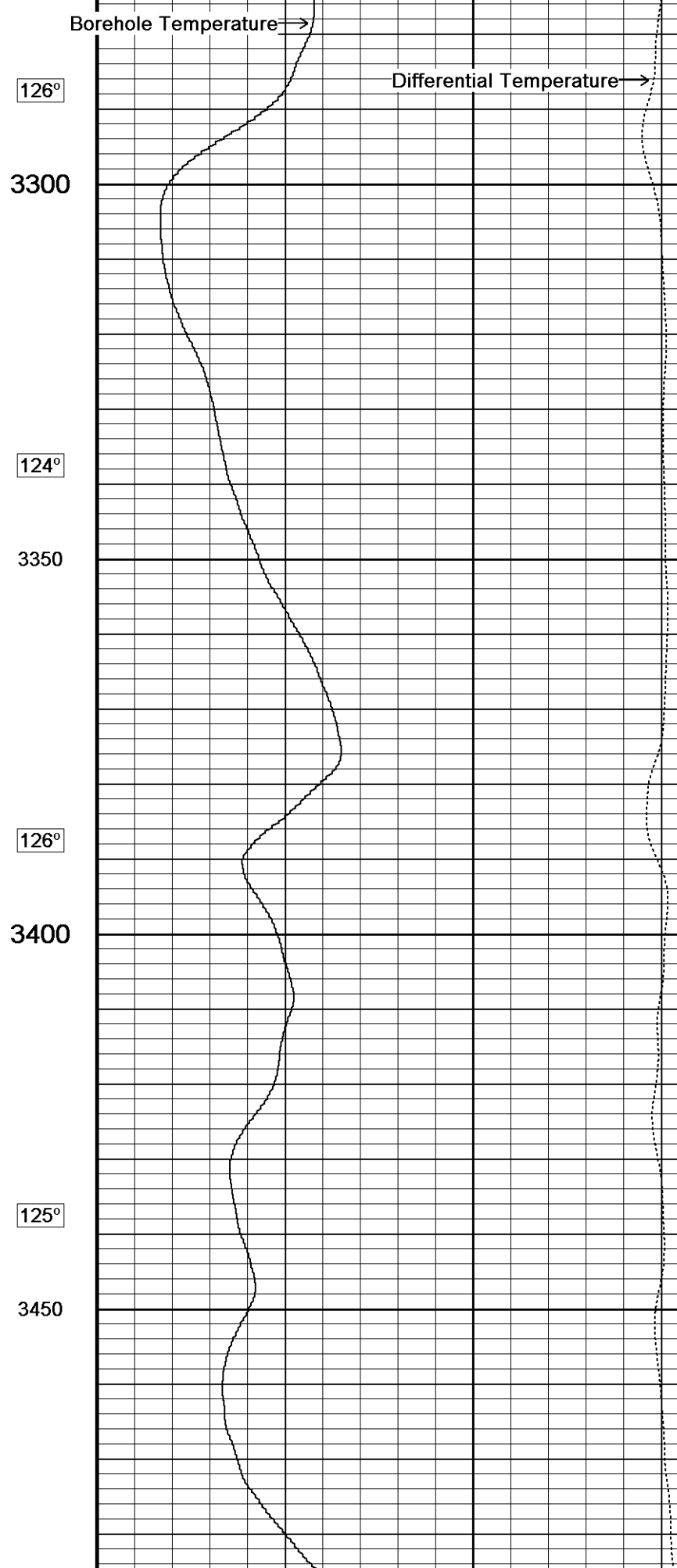
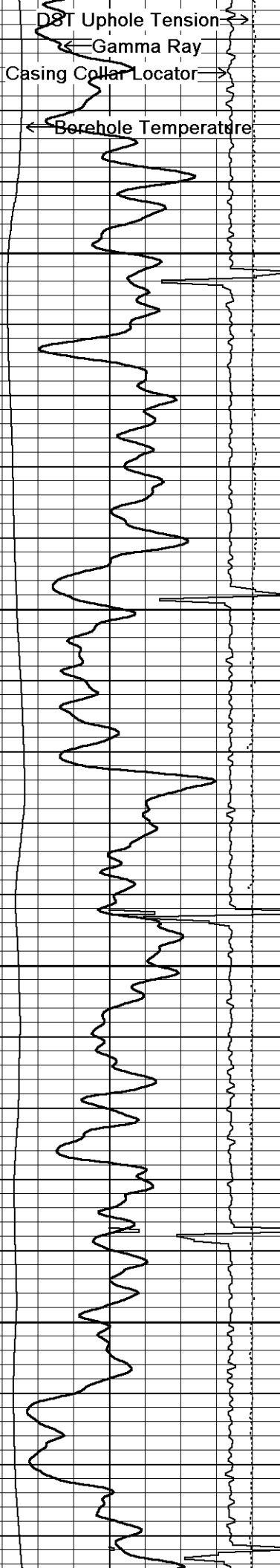
119°

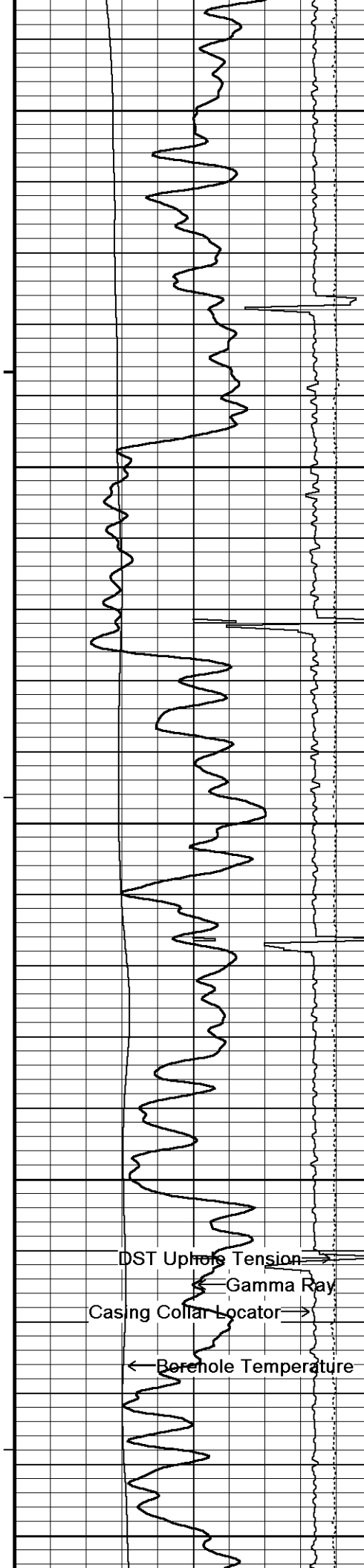
3200

122°

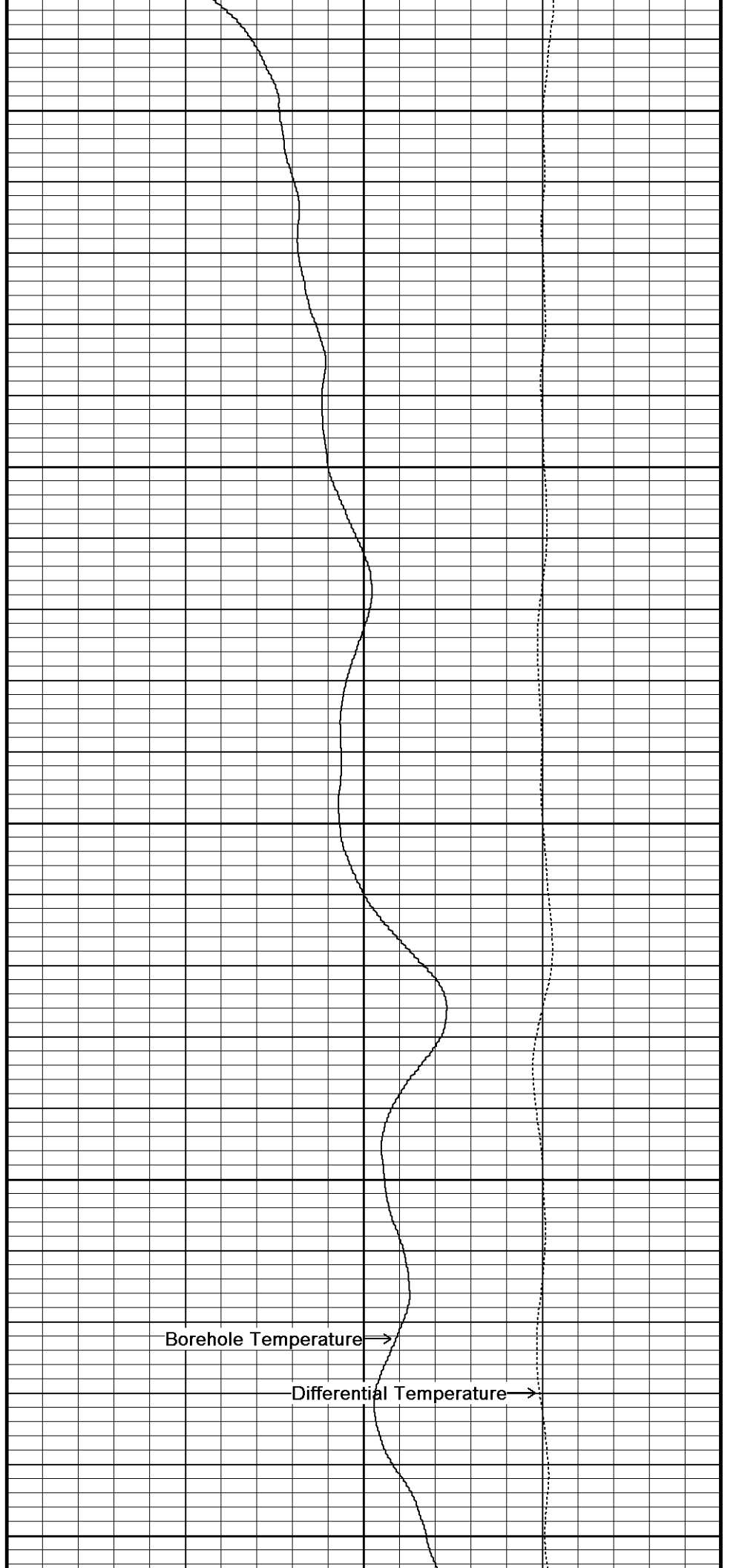
3250





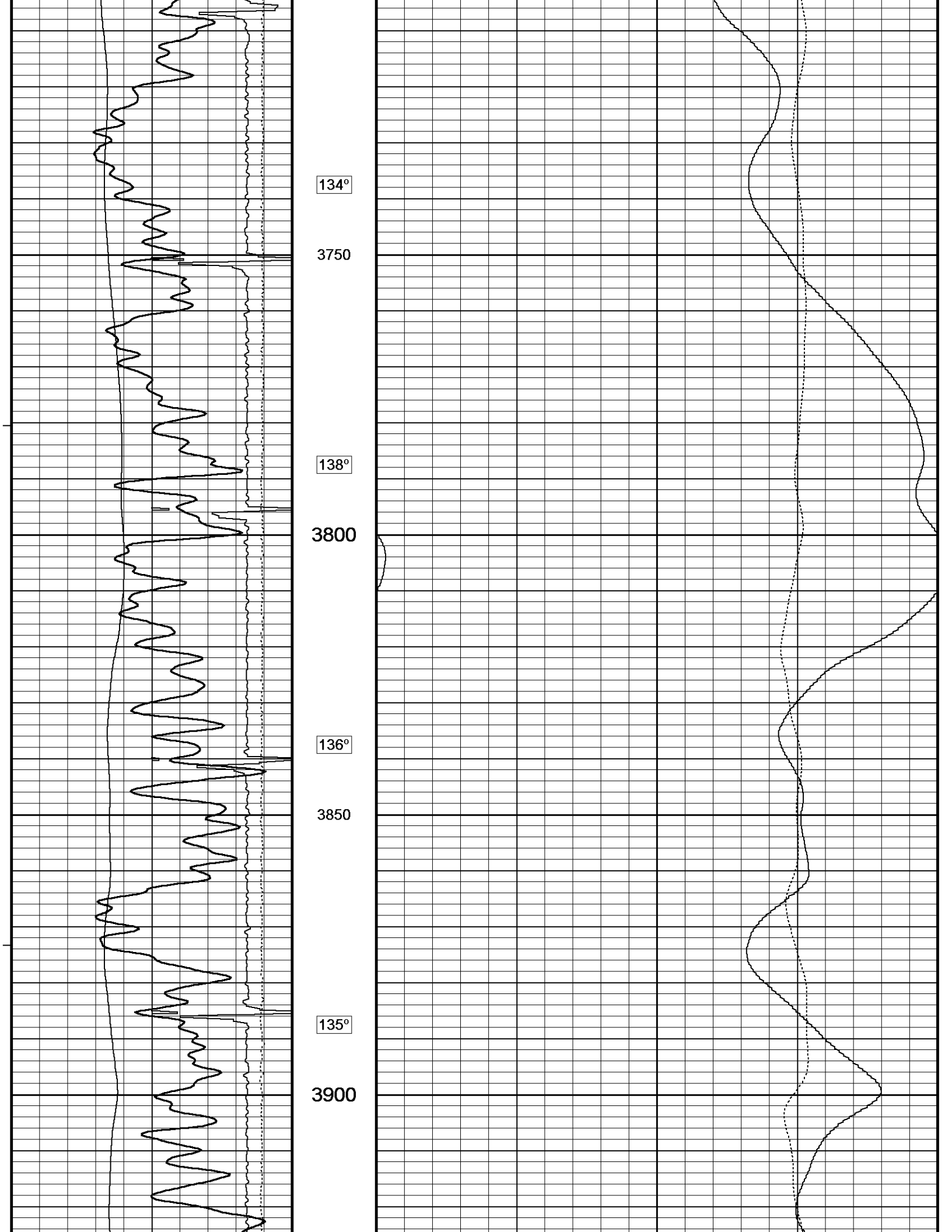


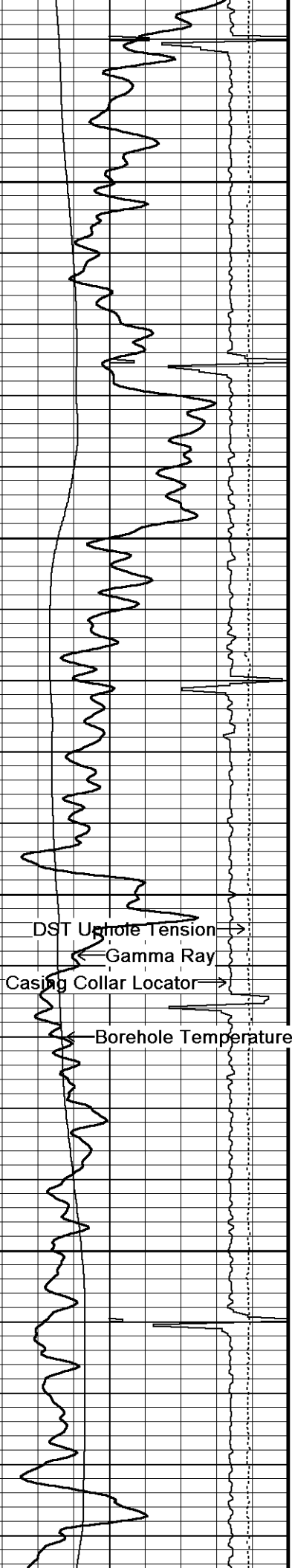
127°
3500
129°
3550
130°
3600
132°
3650
131°
3700



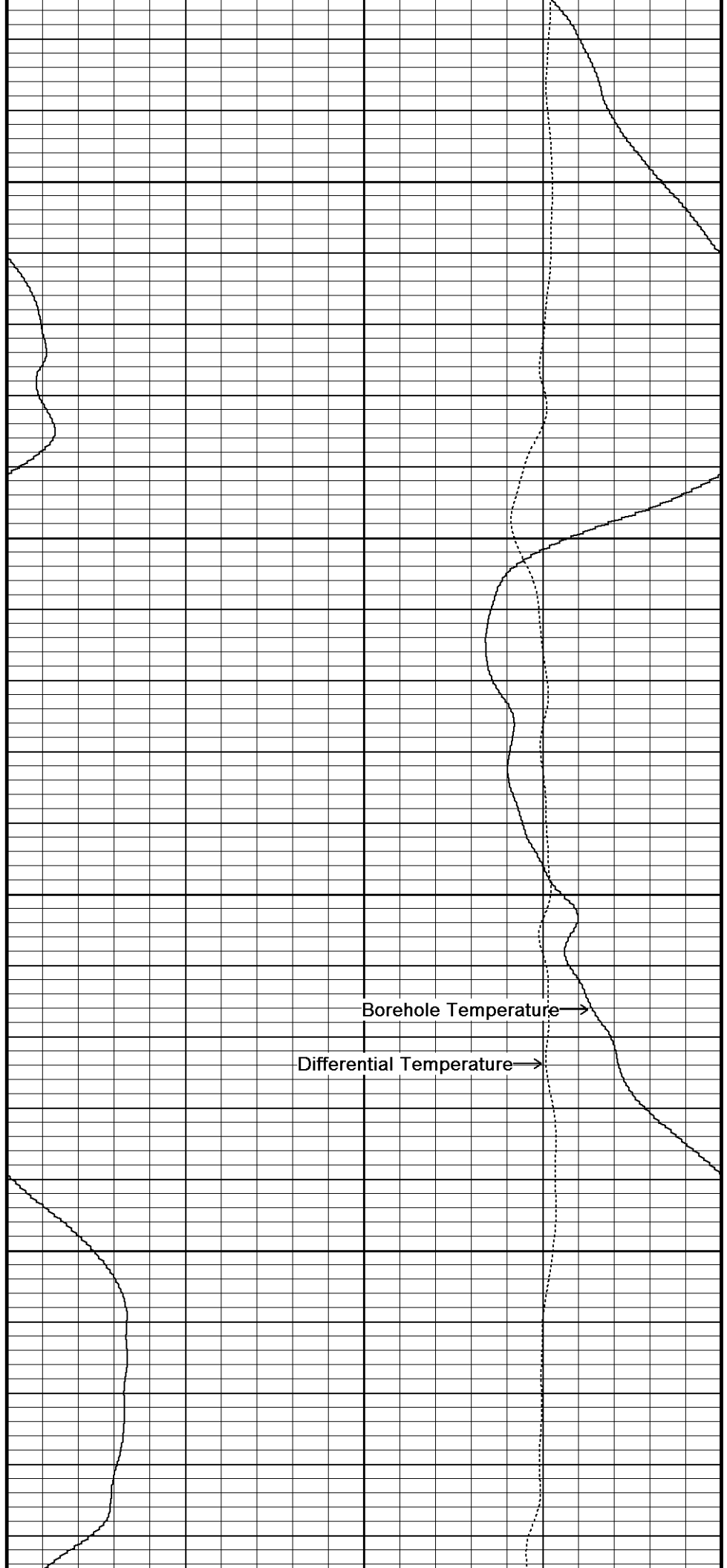
DST Uphole Tension →
Gamma Ray →
Casing Collar Locator →
← Borehole Temperature

Borehole Temperature →
Differential Temperature →

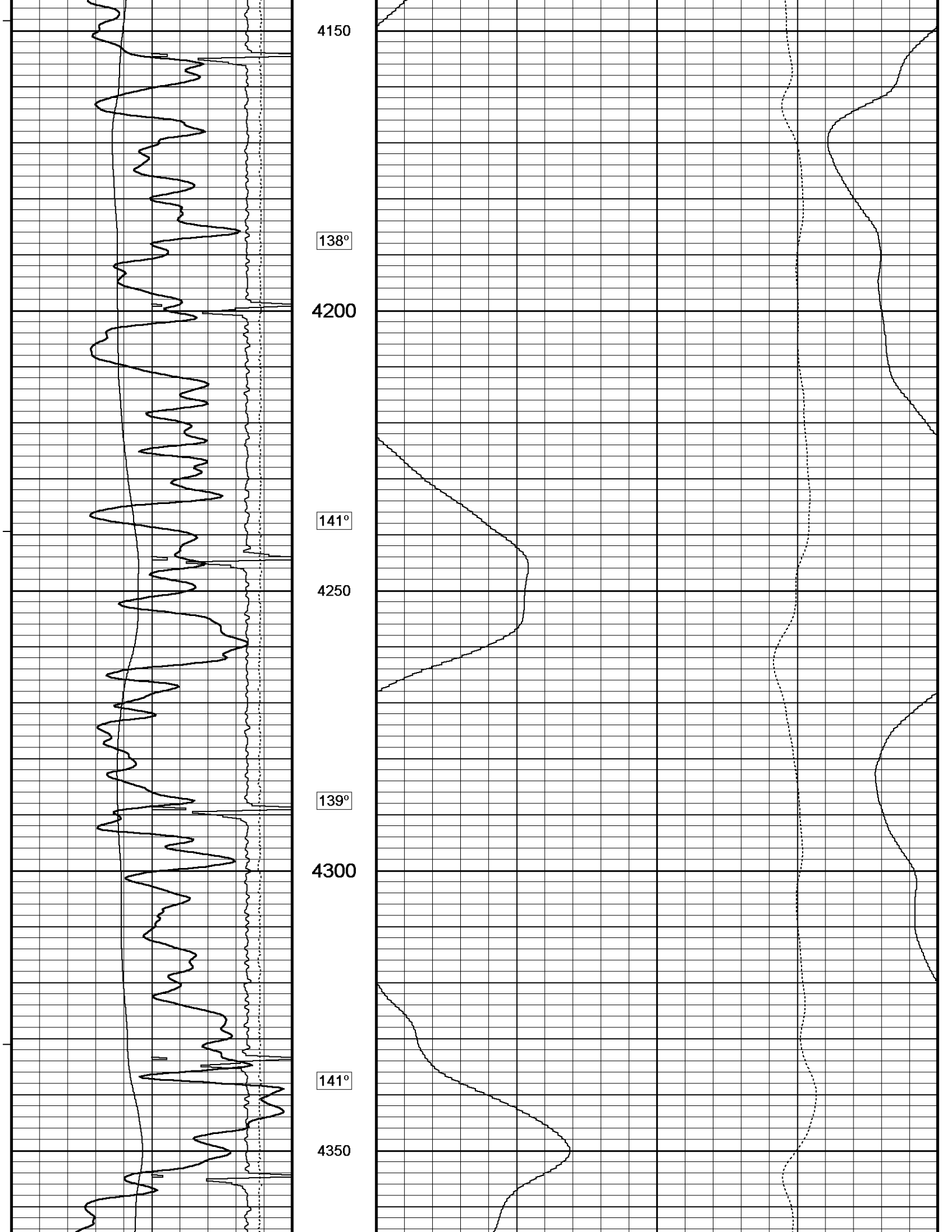


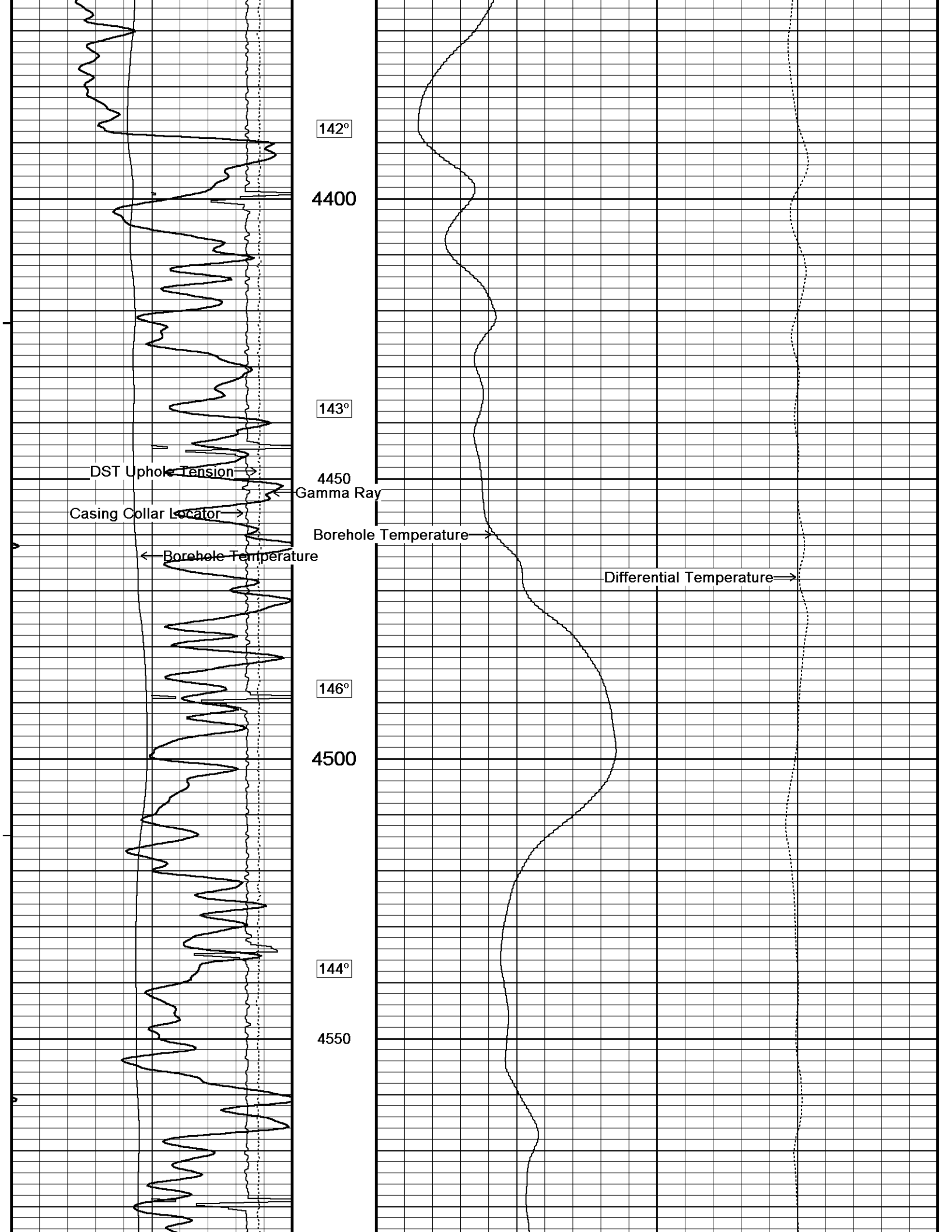


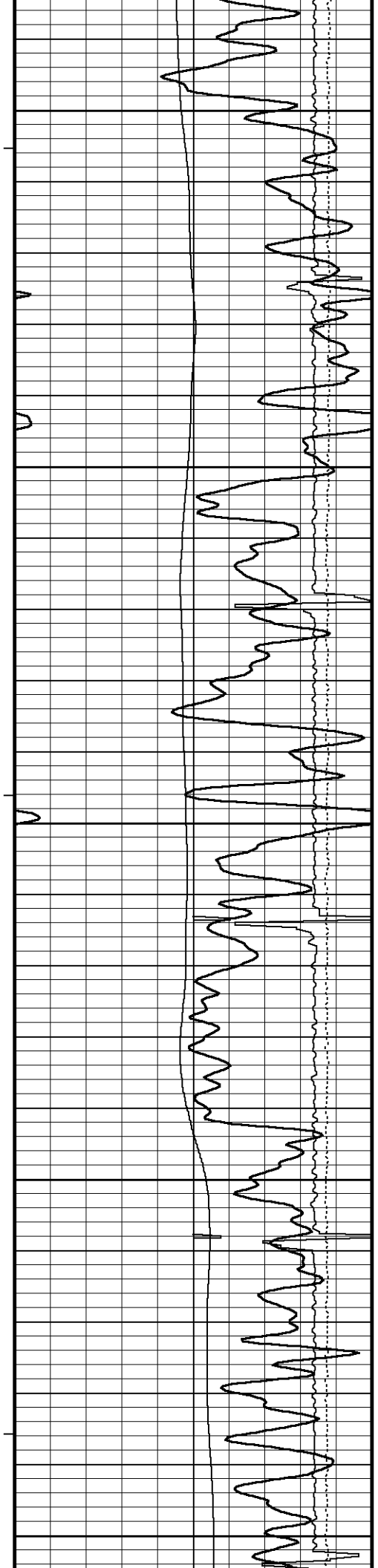
136°
3950
140°
4000
135°
4050
138°
4100
142°



Borehole Temperature →
Differential Temperature →







145°

4600

148°

4650

146°

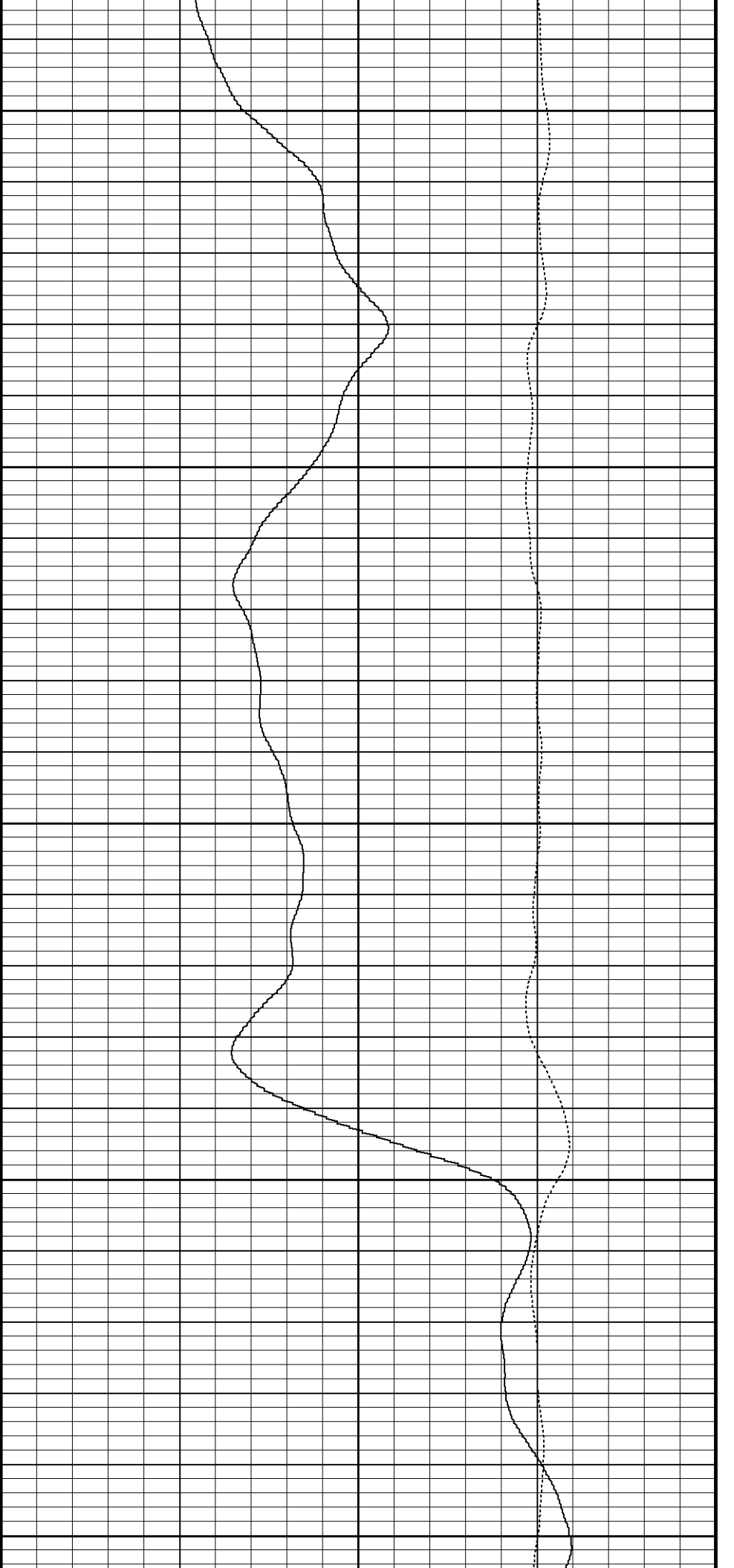
4700

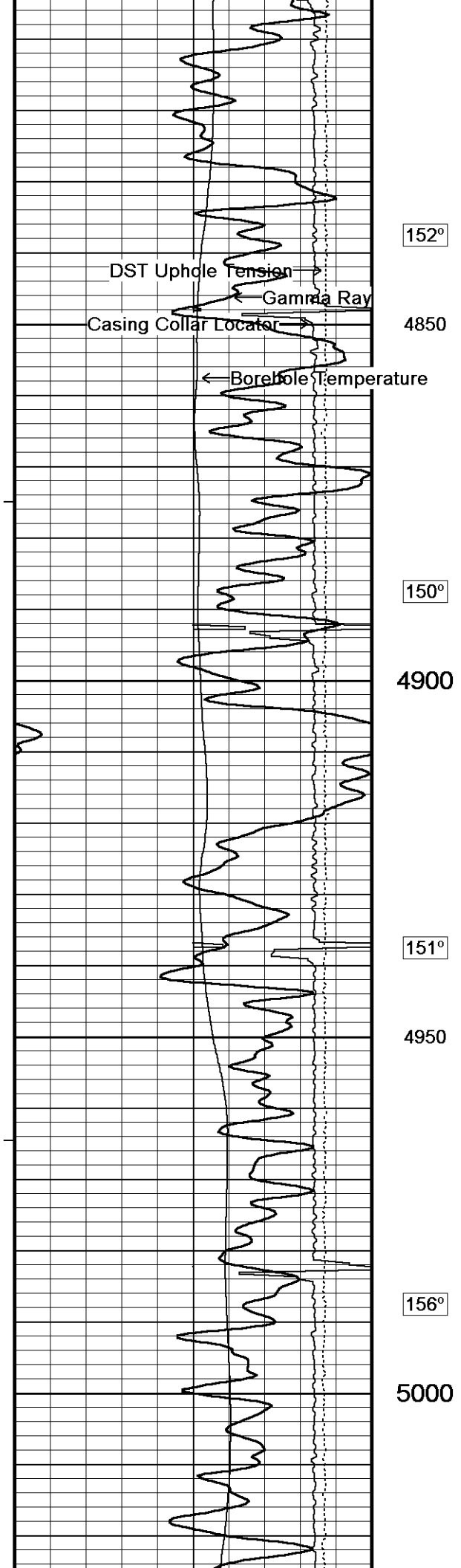
146°

4750

151°

4800





152°

4850

150°

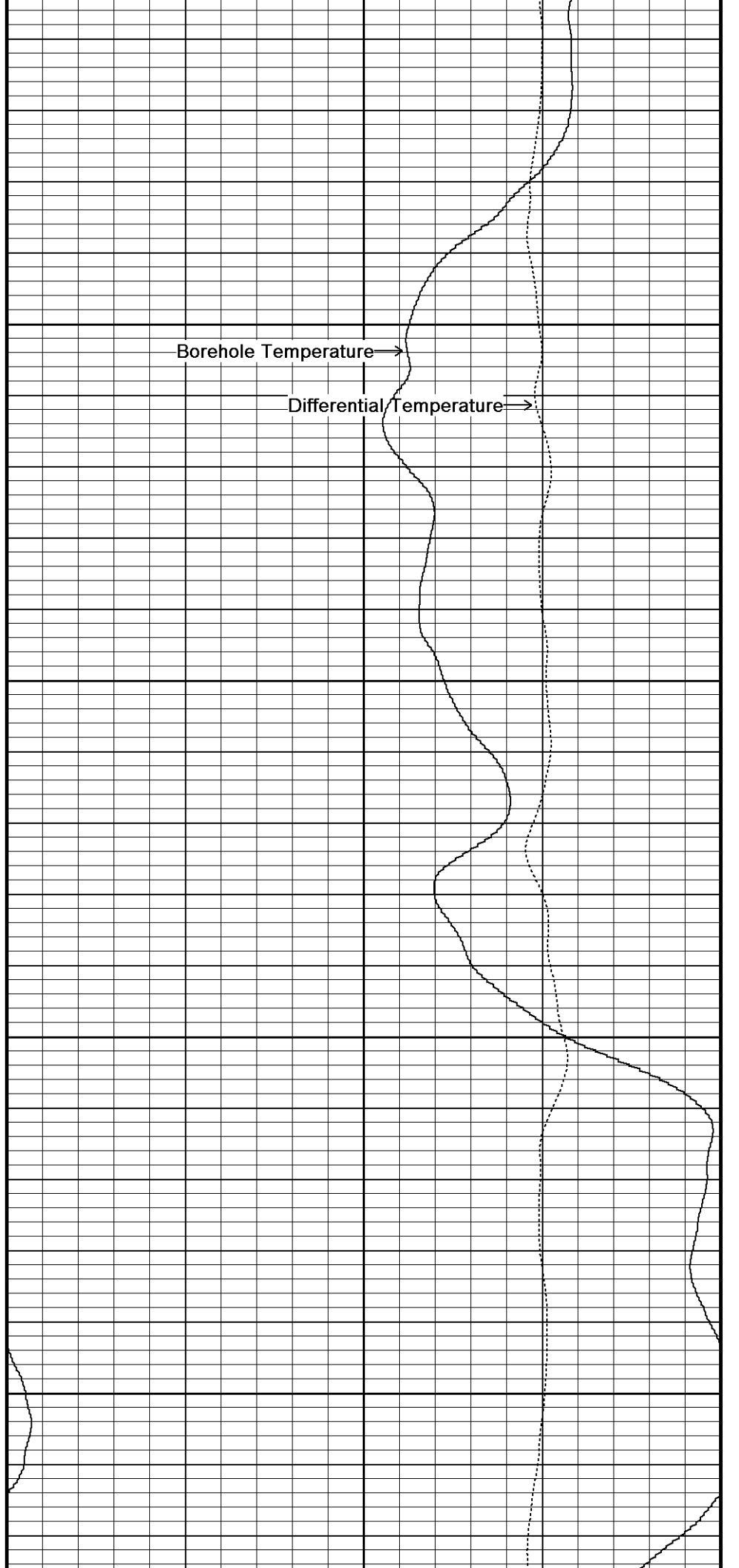
4900

151°

4950

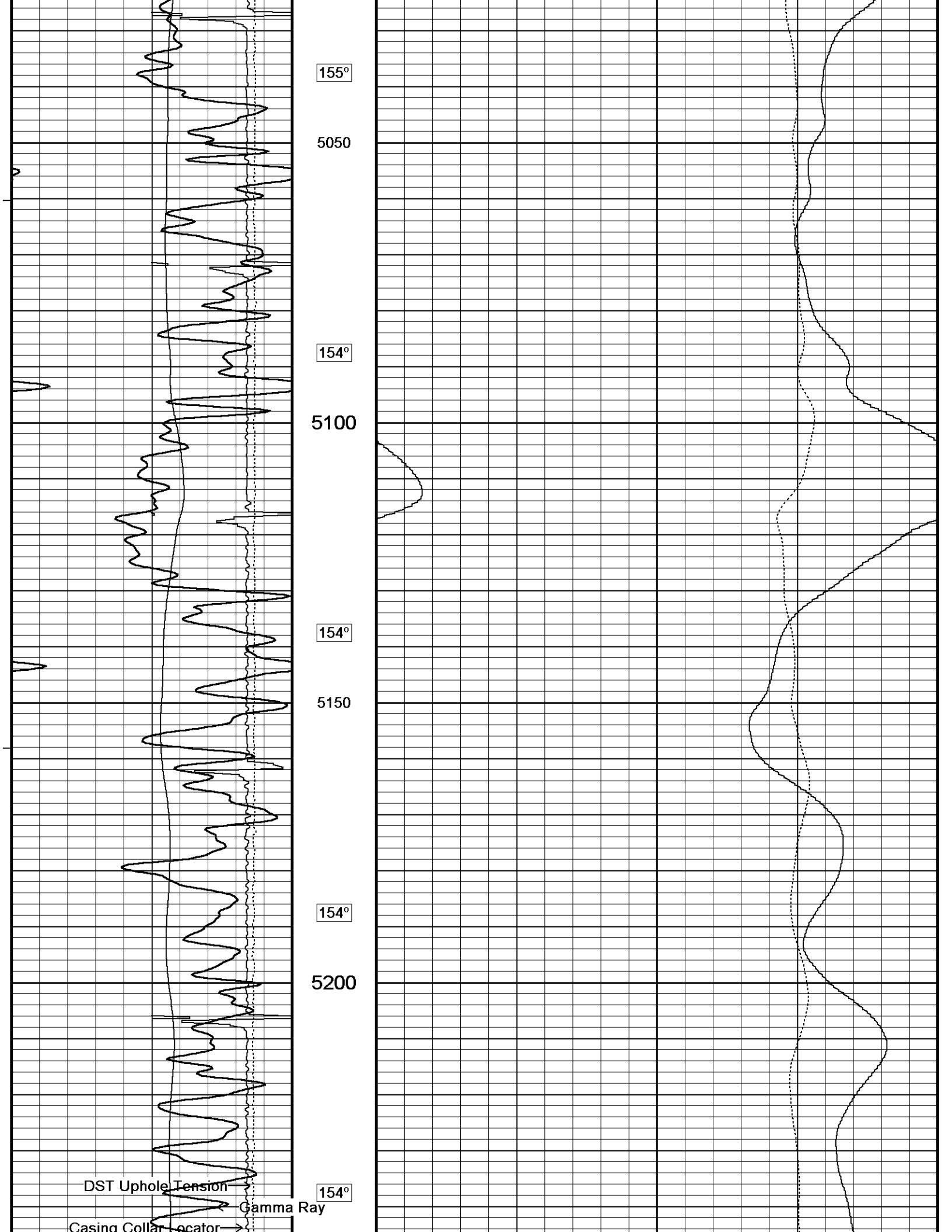
156°

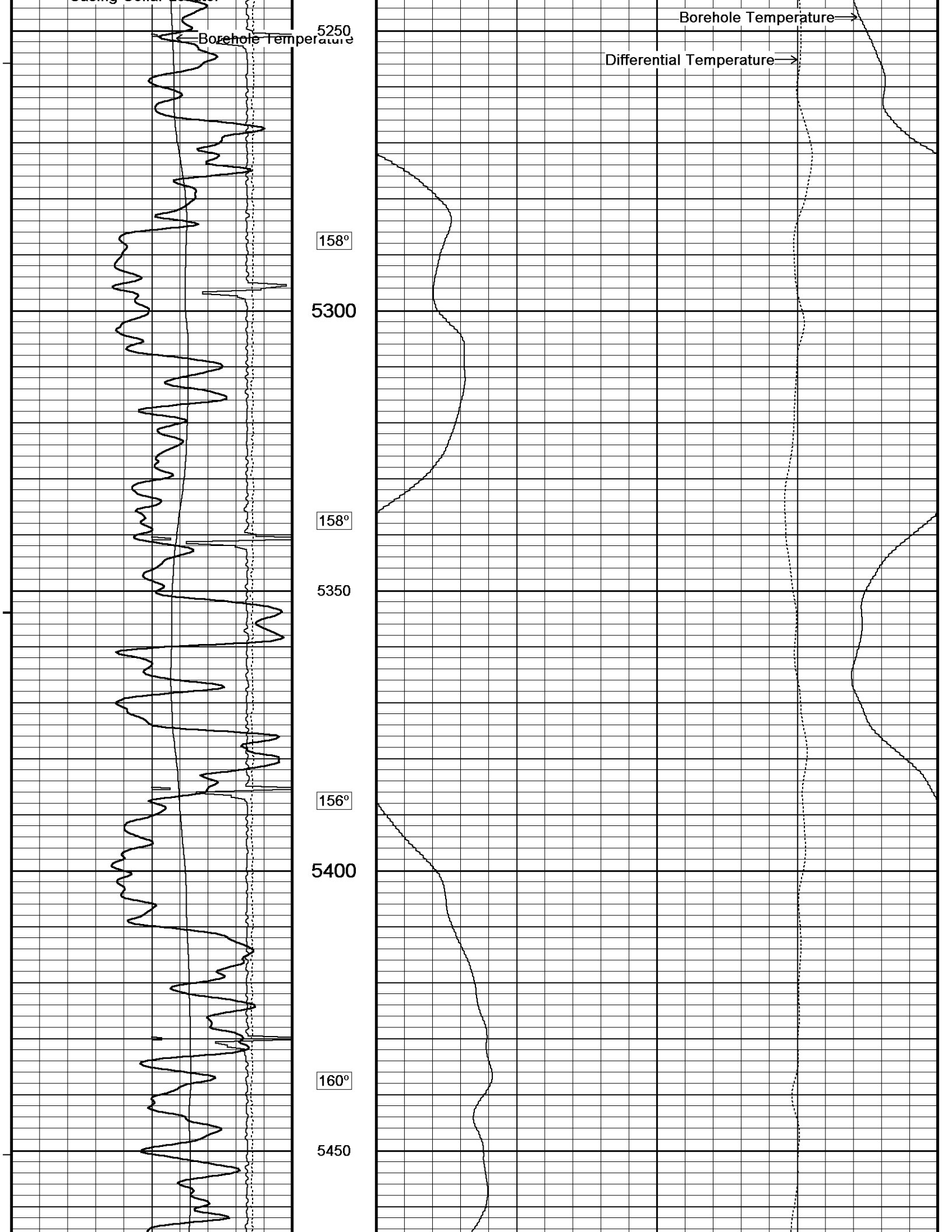
5000



Borehole Temperature

Differential Temperature





Logging Cont...

Borehole Temperature →

Borehole Temperature →

Differential Temperature →

5250

158°

5300

158°

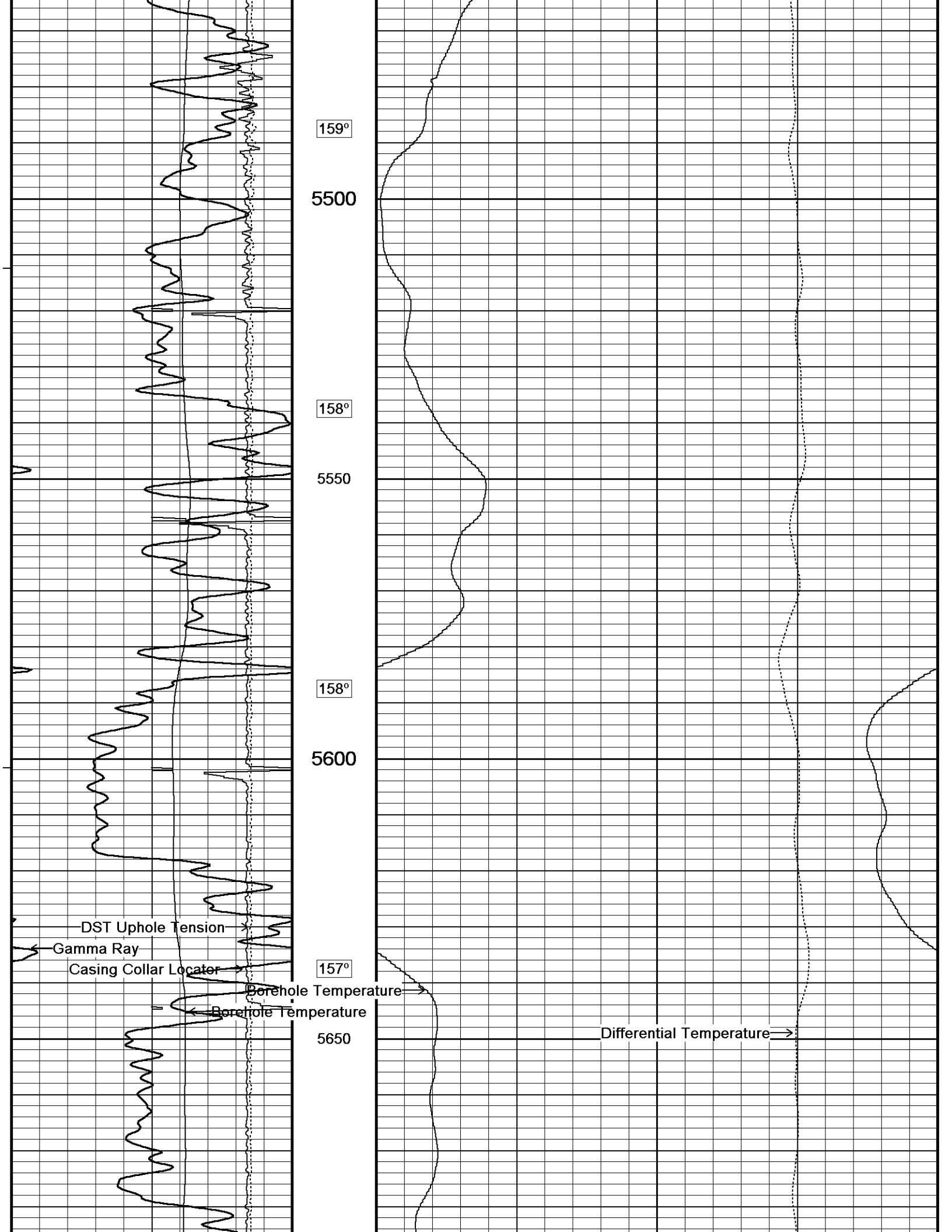
5350

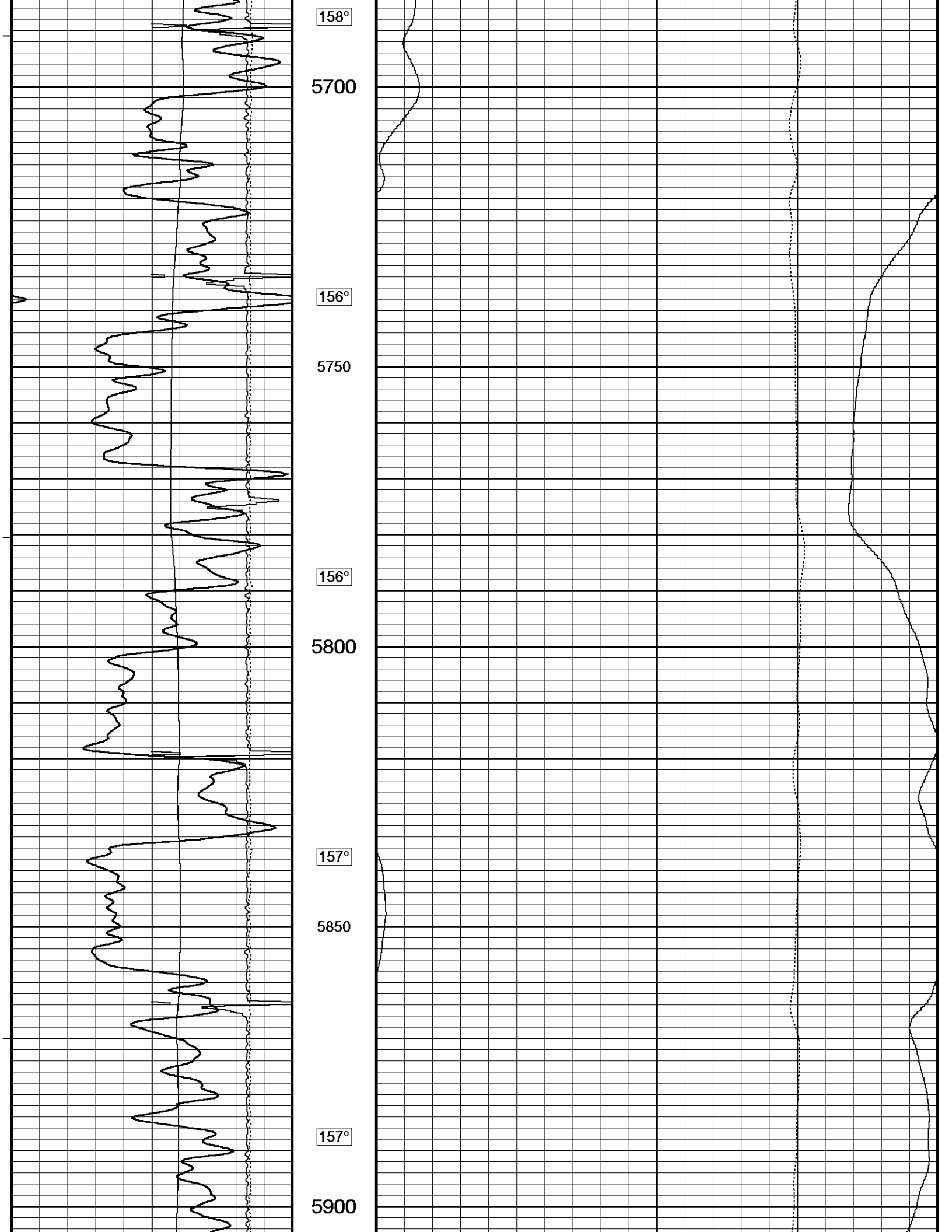
156°

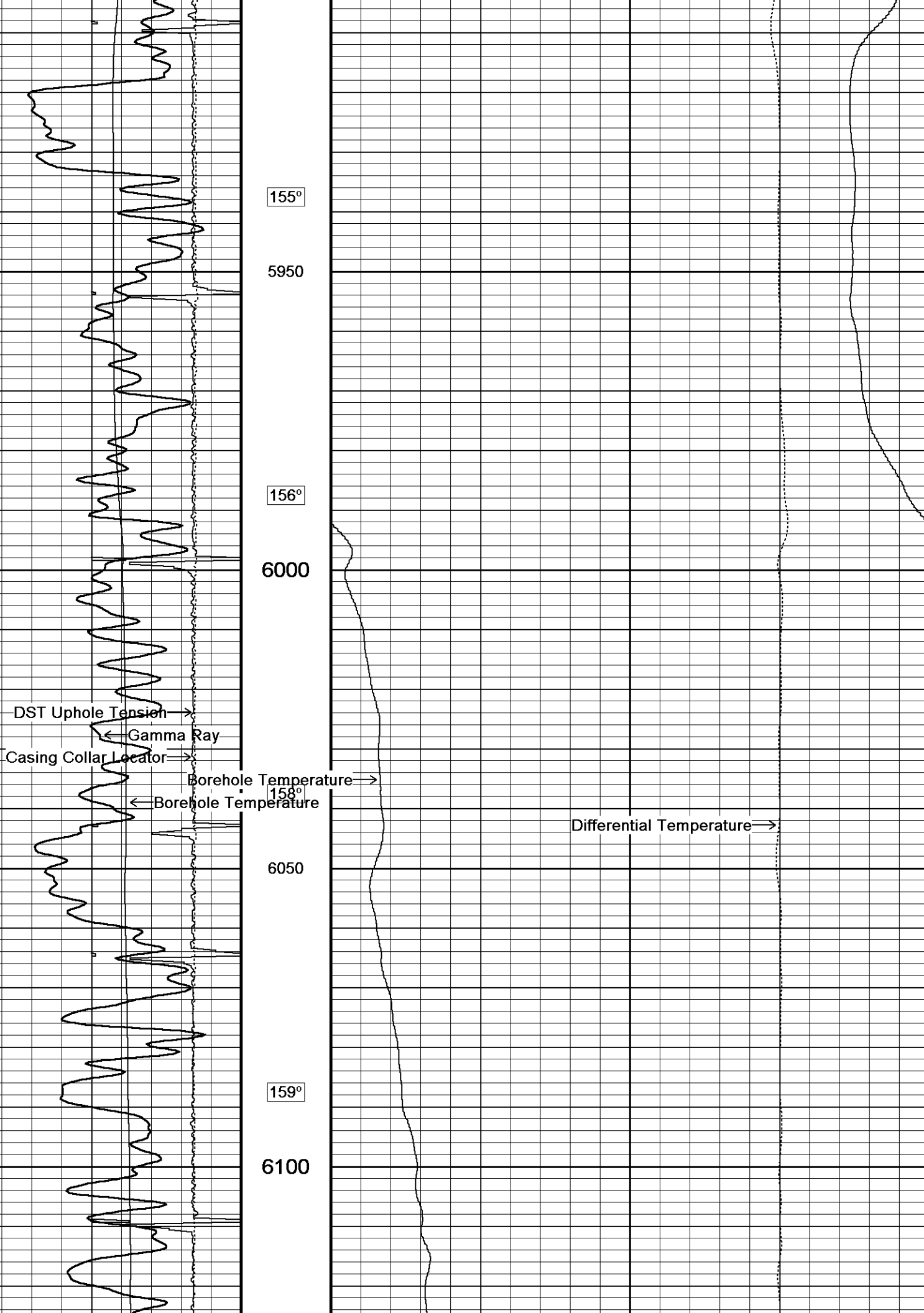
5400

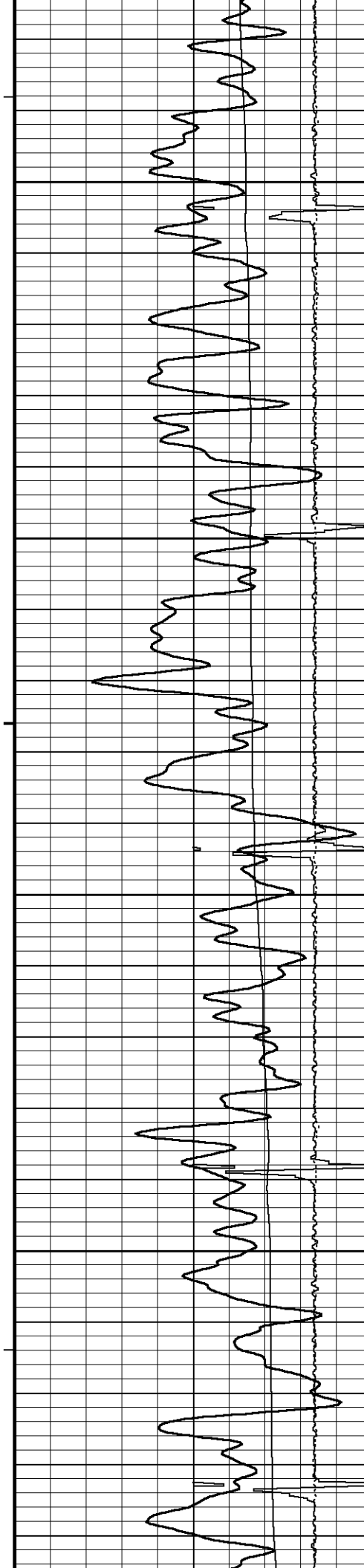
160°

5450









160°

6150

162°

6200

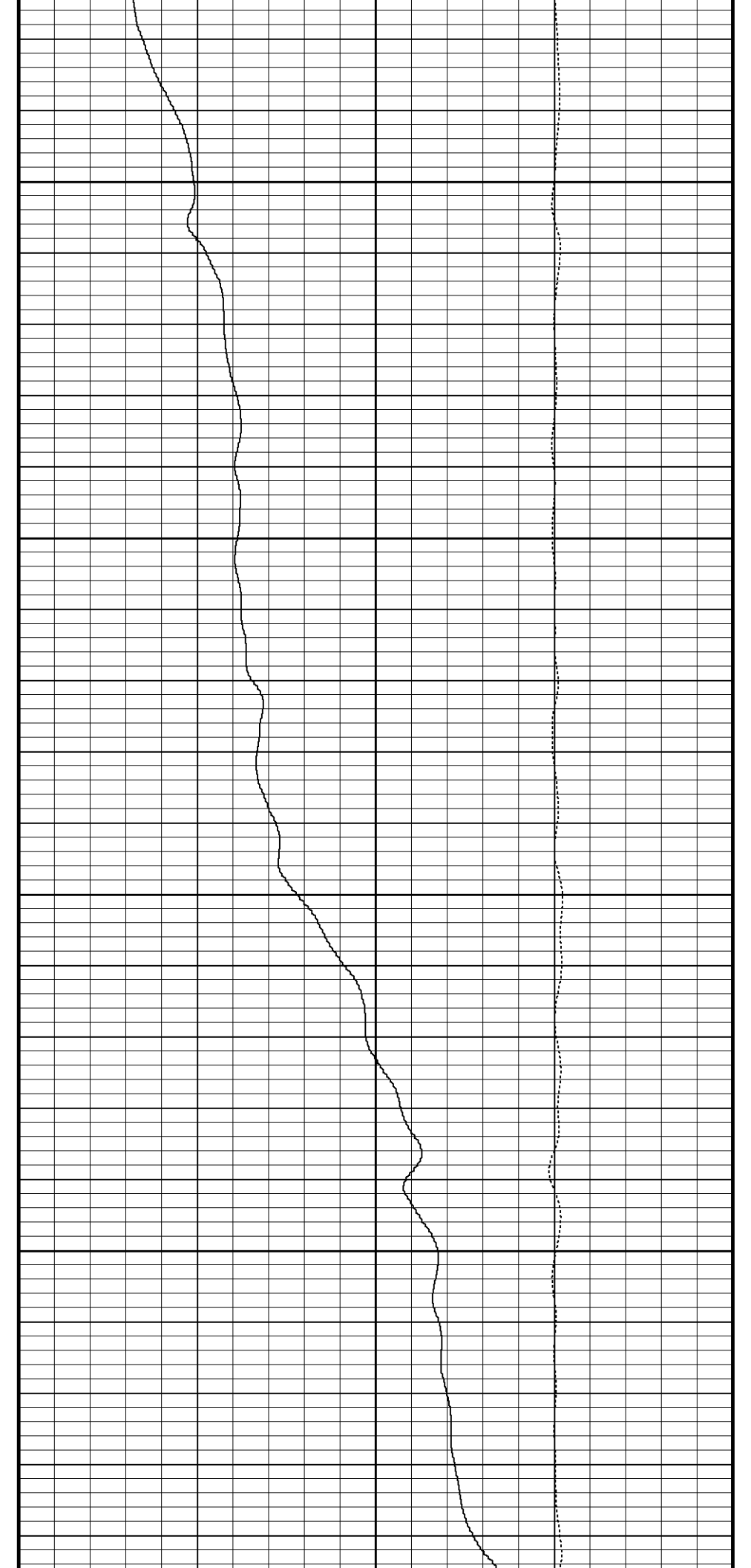
163°

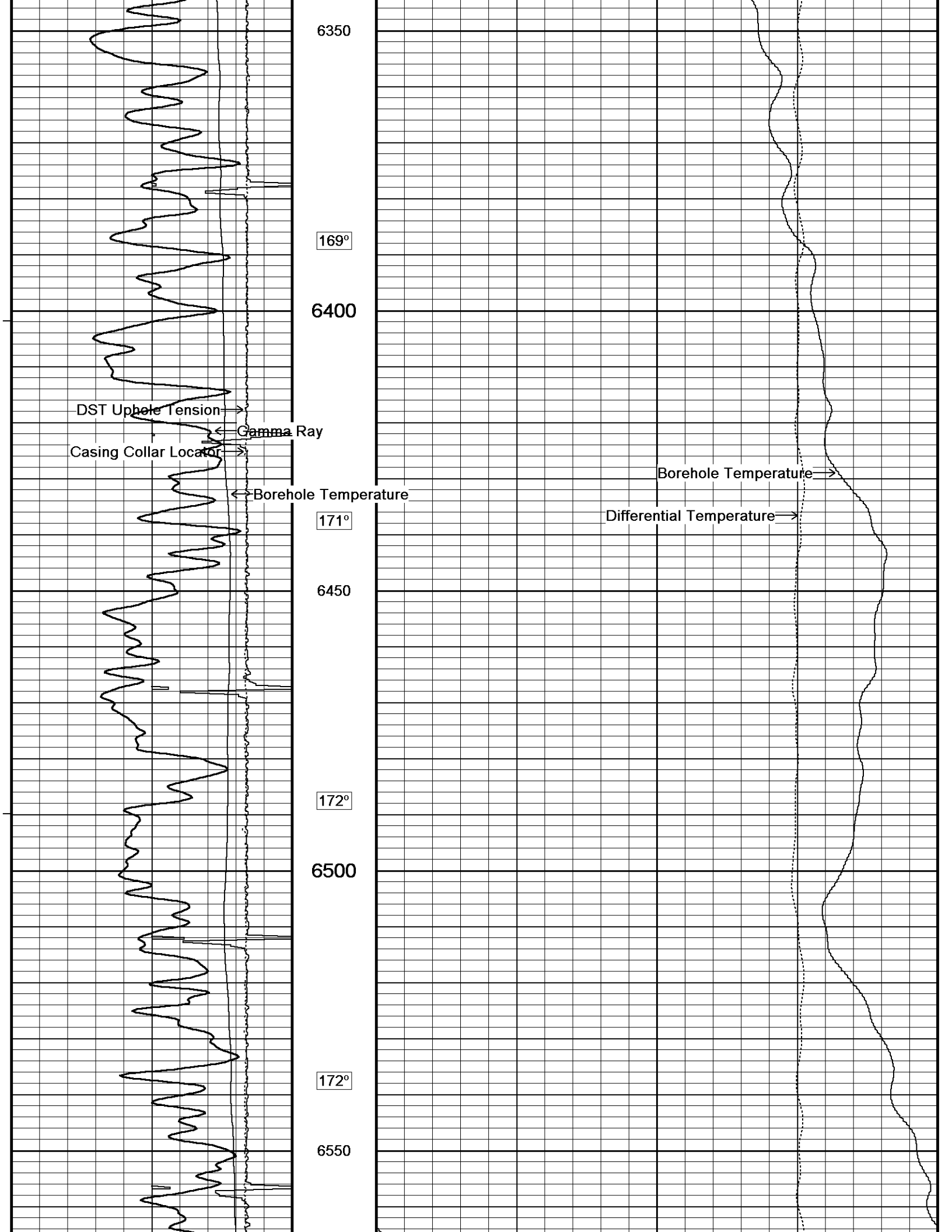
6250

166°

6300

167°





6350

169°

6400

DST Uphole Tension →

← Gamma Ray

Casing Collar Locator →

← Borehole Temperature

171°

Borehole Temperature →

Differential Temperature →

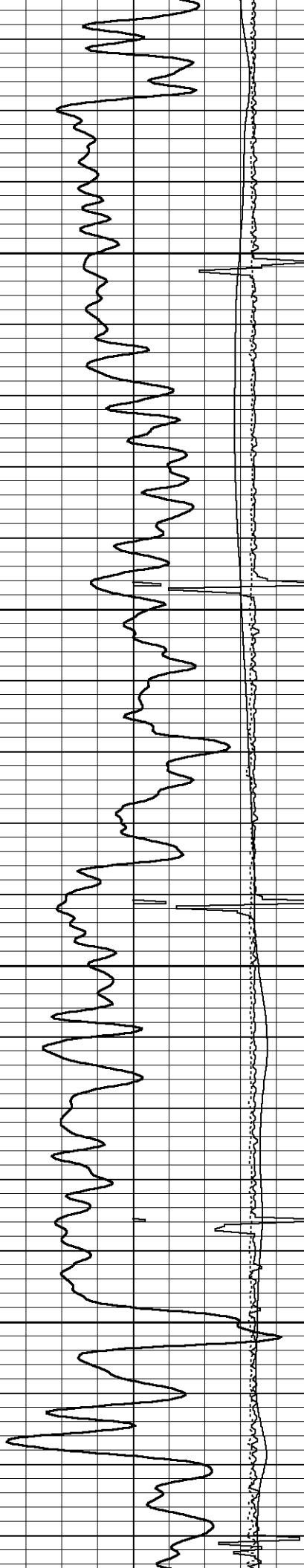
6450

172°

6500

172°

6550



175°

6600

173°

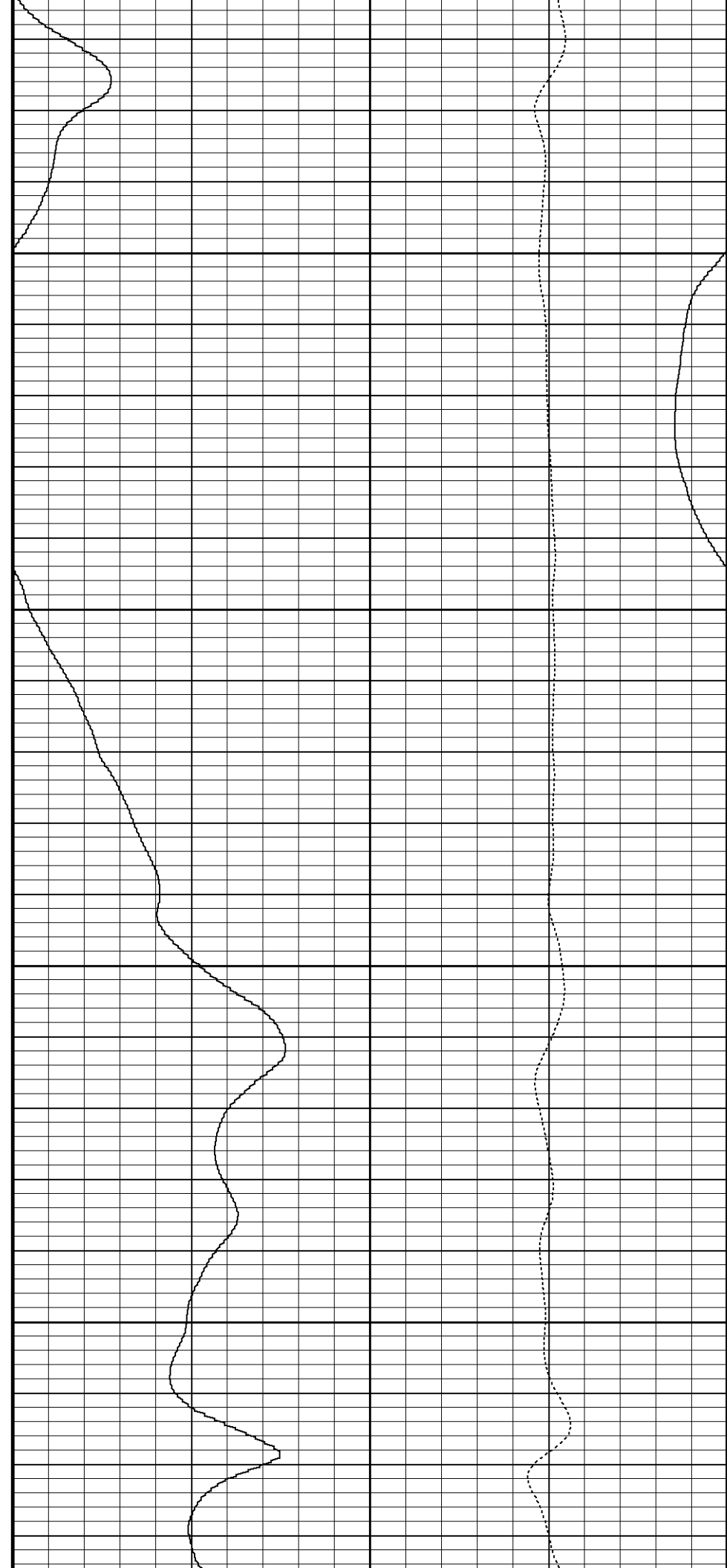
6650

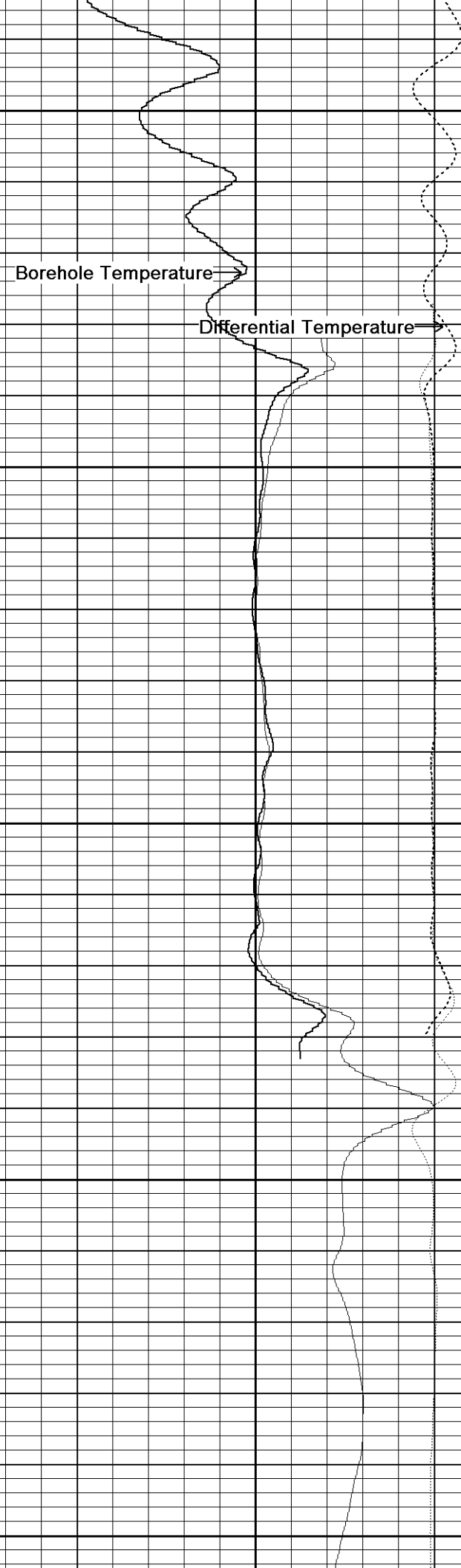
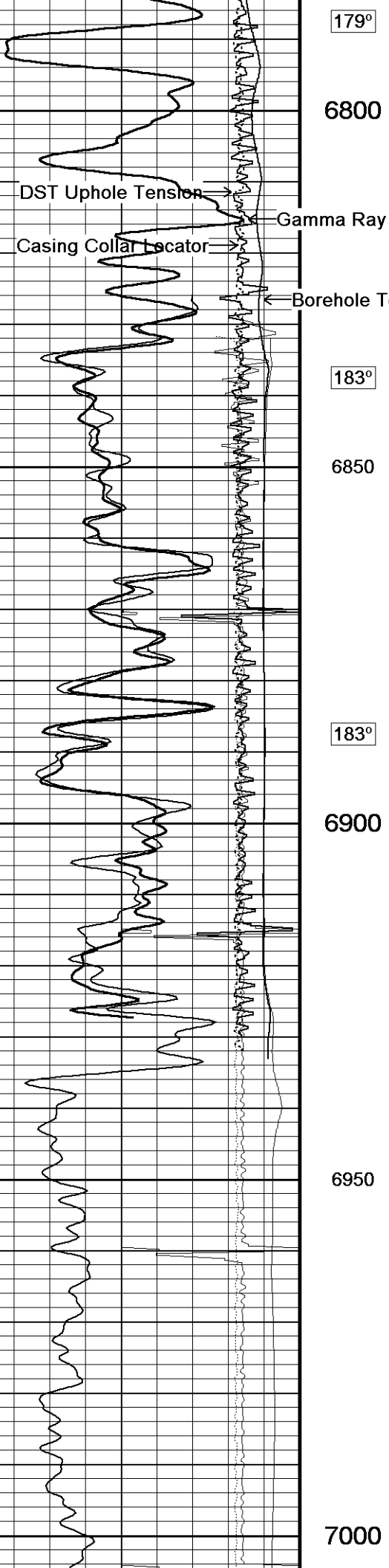
177°

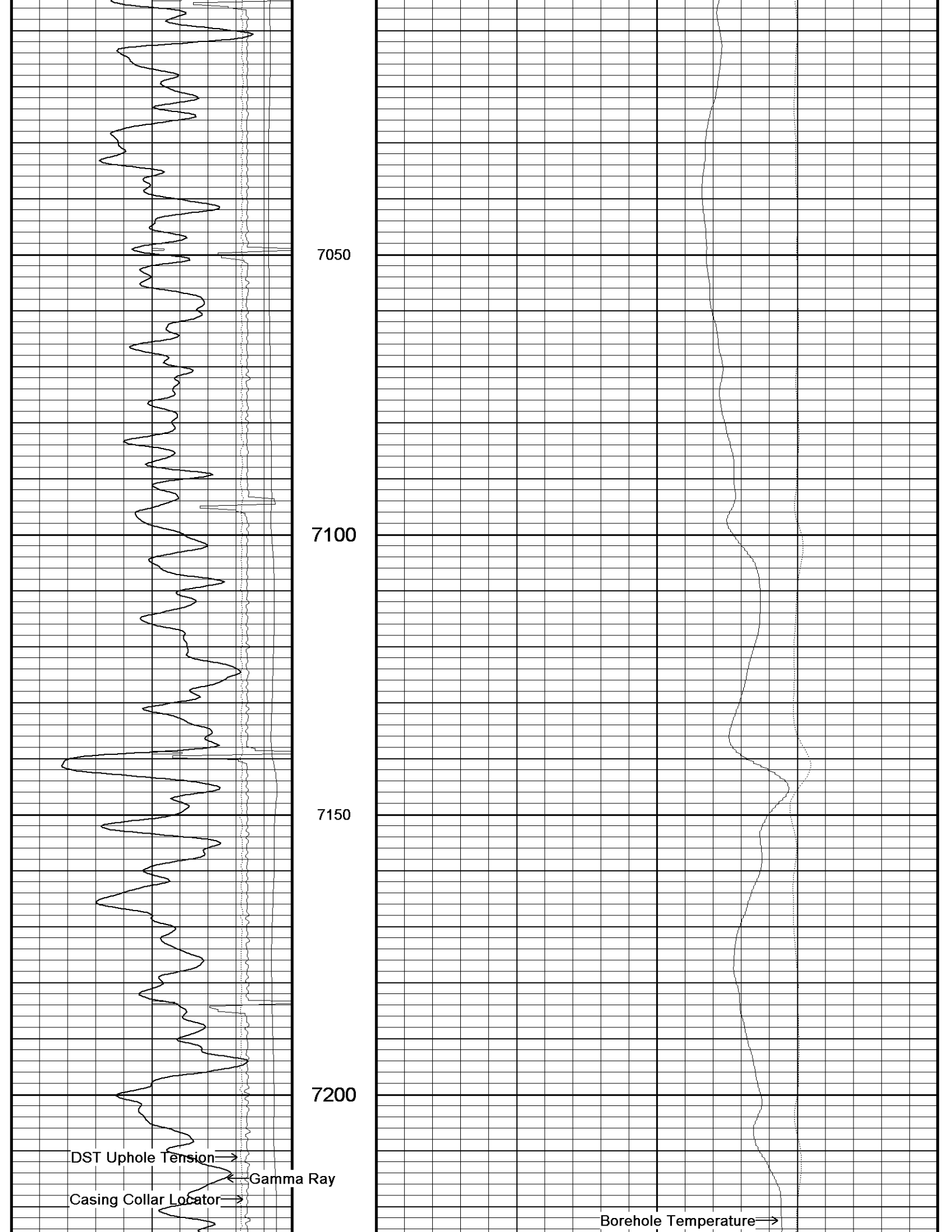
6700

179°

6750







← Borehole Temperature

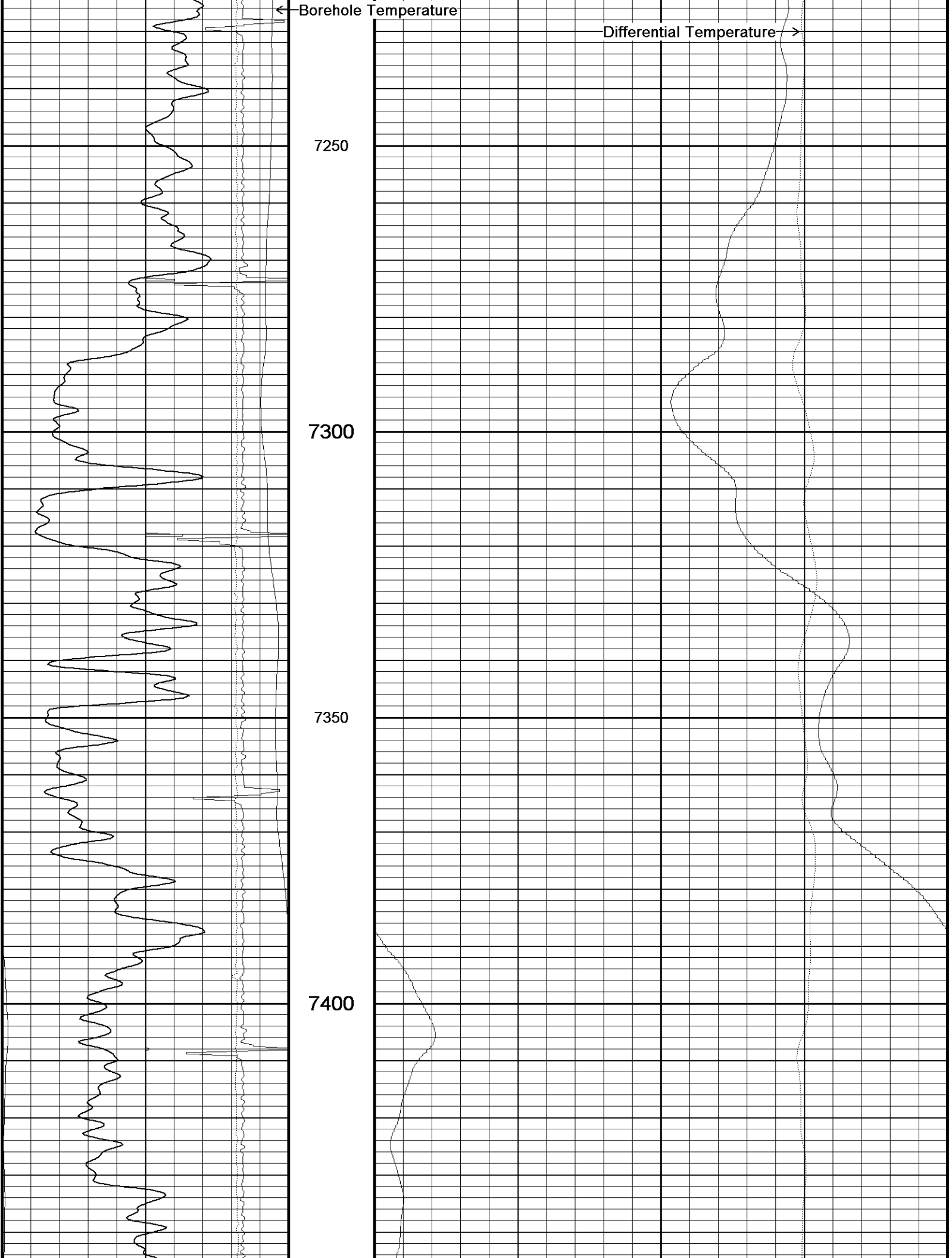
Differential Temperature →

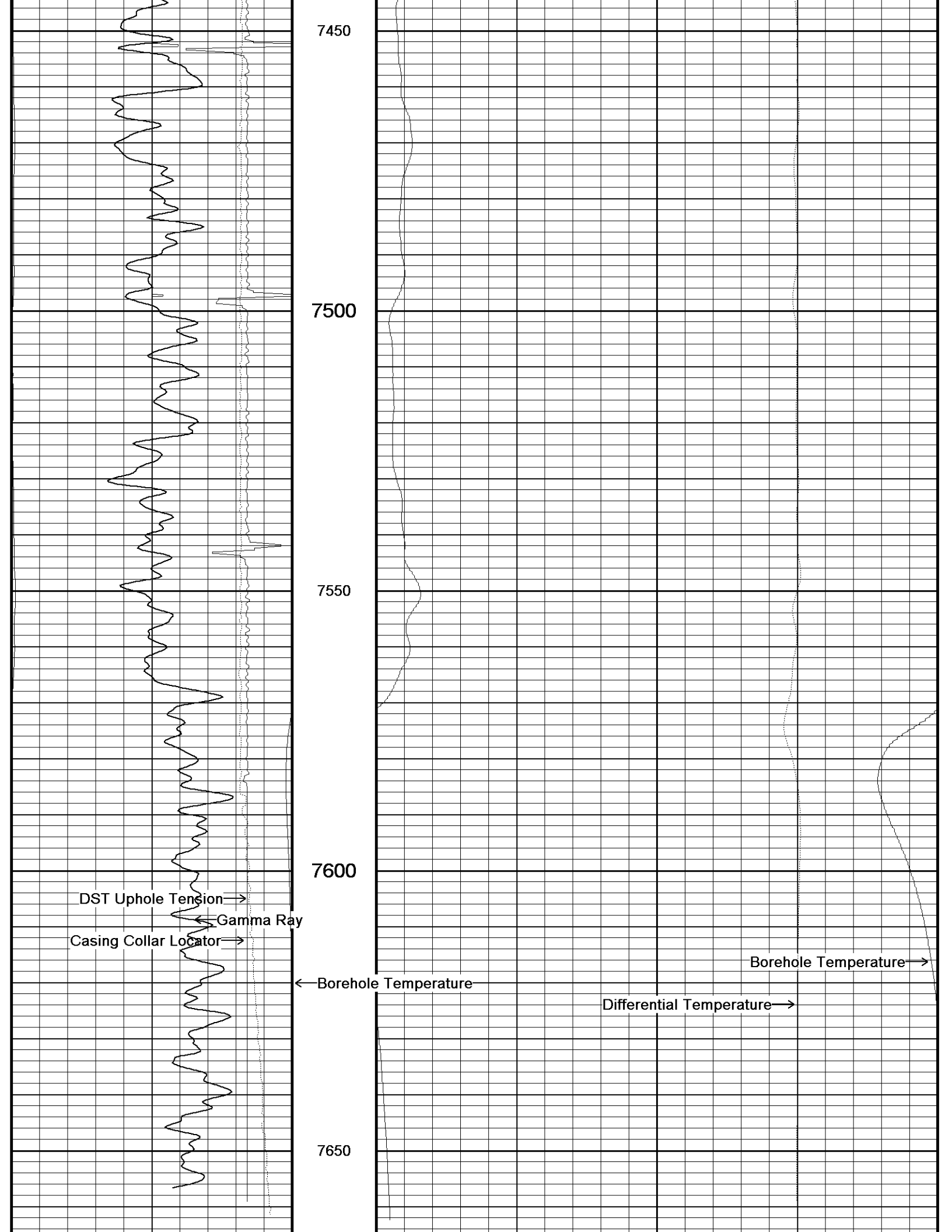
7250

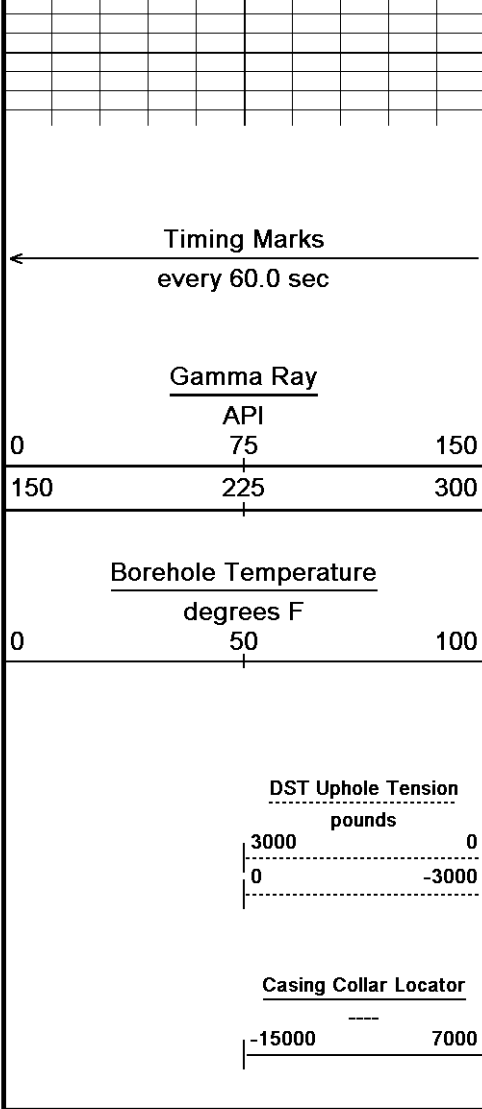
7300

7350

7400



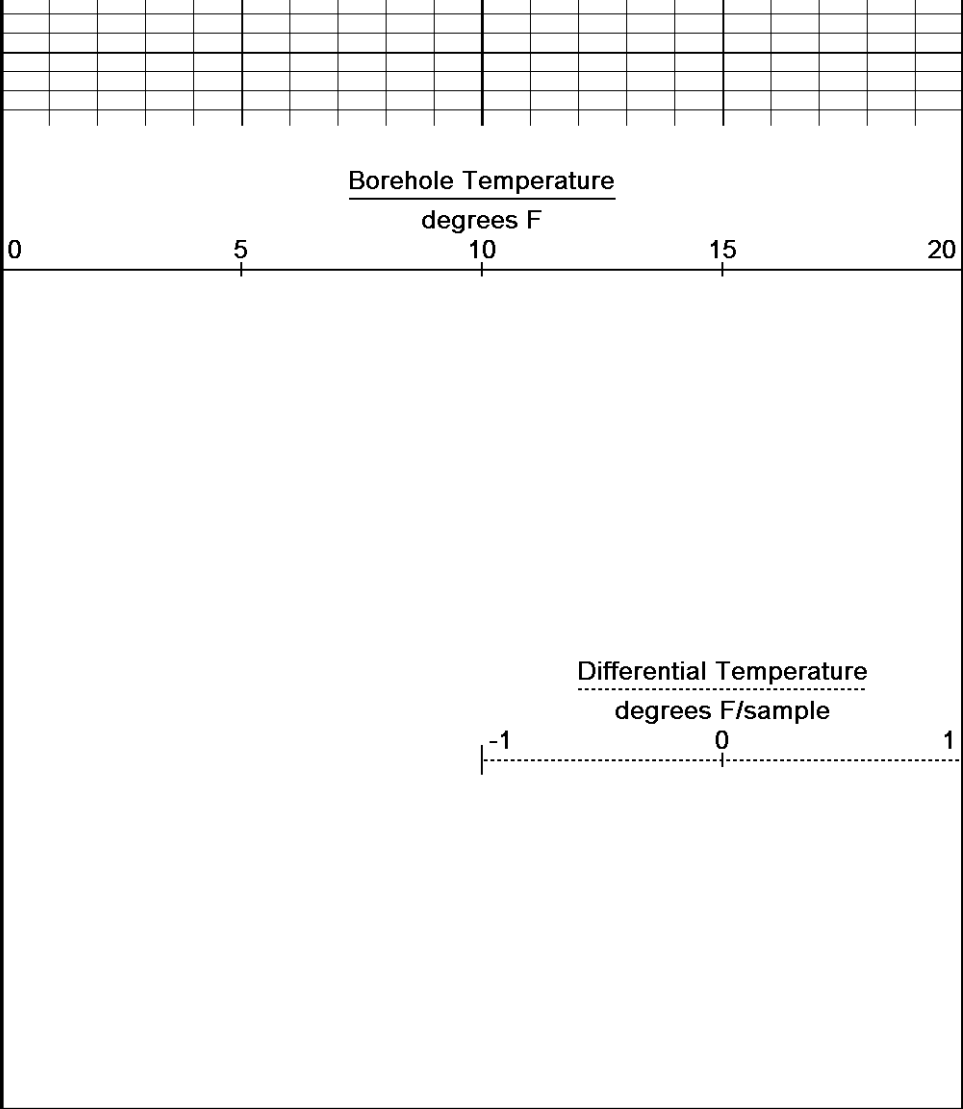




7676
Depth
in
Feet

Borehole
Temp in
deg F

Replay
Scale
1:240



Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-MAR-2011 16:38
 Filename: C:\Documents and Settings\145895\Desktop\GGU FEDERAL 34A-20-691 TEMP\TEMP.dta
 Recorded on 02-MAR-2011 08:49
 Filename: C:\Documents and Settings\145895\Desktop\GGU FEDERAL 34A-20-691 ...SET-RUN3.dta
 Recorded on 02-MAR-2011 11:08
 System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198

↑ 5 INCH MAIN LOG ↑

BEFORE SURVEY CALIBRATION
 C:\Documents and Settings\145895\Desktop\GGU FEDERAL 34A-20-691 TEMP\TEMP.dta

General Constants All 000 Last Edited on 01-MAR-2011,08:52

General Parameters		
Mud Resistivity	3.500	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	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0

Reading No	Measured	Calibrated (lbs)
1	15744.78	0.00
2	15755.14	119.00

High Resolution Temperature Calibration MCG-C 192

Field Calibration on 02-MAR-2011,08:24

	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 02-MAR-2011,08:23

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

Gamma Calibration MCG-C 192

Field Calibration on 02-MAR-2011,08:23

	Measured	Calibrated (API)
Background	96	66
Calibrator (Gross)	1416	978
Calibrator (Net)	1320	912

Gamma Constants MCG-C 192

Last Edited on 02-MAR-2011,08:23

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 02-MAR-2011,08:23

	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:\Documents and Settings\le145895\Desktop\GGU FEDERAL 34A-20-691 TEMP\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
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 FEDERAL 34A-20-691

WELL GGU FEDERAL 34A-20-691
FIELD GIBSON GULCH
PROVINCE/COUNTY GARFIELD
COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7689.00	feet
Elevation Drill Floor	6126.00	feet	Depth Driller	7586.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7586.00	feet



Weatherford[®]

TEMPERATURE LOG

