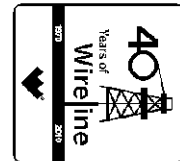




Weatherford[®]

**HOLE VOLUME
CALIPER
LOG**

COMPANY BILL BARRETT CORPORATION
WELL CB-TG LAND 21A-20-692
FIELD MAMM CREEK
PROVINCE/COUNTY GARFIELD
COUNTRY/STATE U.S.A. / COLORADO
LOCATION SHL: 735' FNL & 2551' FEL
BHL: 1197' FNL & 1972' FWL



SEC	TWP	RGE	Other Services
31	6S	92W	MPD/MDN MA/MFE
API Number	05-045-19774		
Permit Number			
Permanent Datum G.L., Elevation 5530 feet			
Log Measured From K.B. @ 23 FT above Permanent Datum			
Drilling Measured From K.B.			
Date	15-MAY-2011		

Elevations:	feet
KB	5553.00
DF	5552.00
GL	5530.00

Run Number	ONE	
Depth Driller	7641.00	feet
Depth Logger	7640.00	feet
First Reading	7617.00	
Last Reading	816.00	
Casing Driller	815.00	feet
Casing Logger	816.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.30 lb/USg	55.00 CP
PH / Fluid Loss	9.70	8.00 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	2.87 @ 75.2	ohm-m
Rmf @ Measured Temp	2.30 @ 75.2	ohm-m
Rmc @ Measured Temp	3.44 @ 75.2	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	1.13 @ 196.0	ohm-m
Time Since Circulation	7 HOURS	
Max Recorded Temp	196.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13045	GD JCT
Recorded By	D. KUNTZ	
Witnessed By	C. CROWTON	

BOREHOLE RECORD

Last Edited: 16-MAY-2011 02:27

Bit Size inches	Depth From feet	Depth To feet
8.750	816.00	5084.00
7.875	5084.00	7640.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	816.00	36.00

REMARKS

LOGGED USING WLS SOFTWARE VERSION 11.02.3186

TOOLS: SHA, MCG, MDN, MPD, SKJ, MFE, AND MAI RAN IN COMBINATION

HARDWARE: MPD: (1) 8 INCH PROFILE PLATE
MAI: (2) 0.5 INCH STANDOFF
MDN: (1) DUAL BOWSPRING
MFE: (1) 0.5 INCH STANDOFF

2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TIGHT PULLS, BOREHOLE SIZE, AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.99" (9 5/8", 36 LB/FT CASING)

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2785 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2035 CU.FT.

SERVICE ORDER: #3524798

RIG: NABORS #37

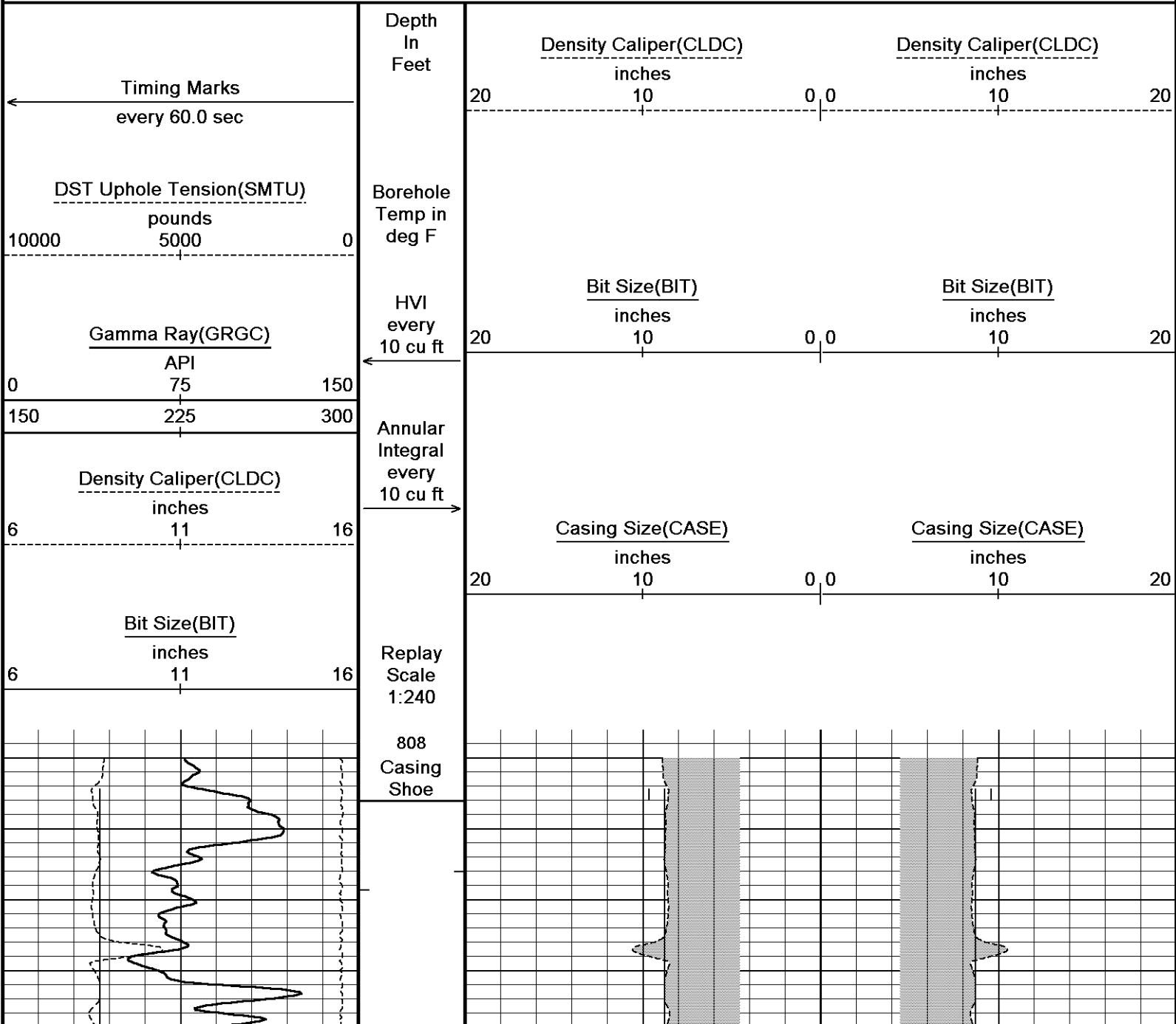
ENGINEER(S): D.KUNTZ, K. SALLER (JFE)

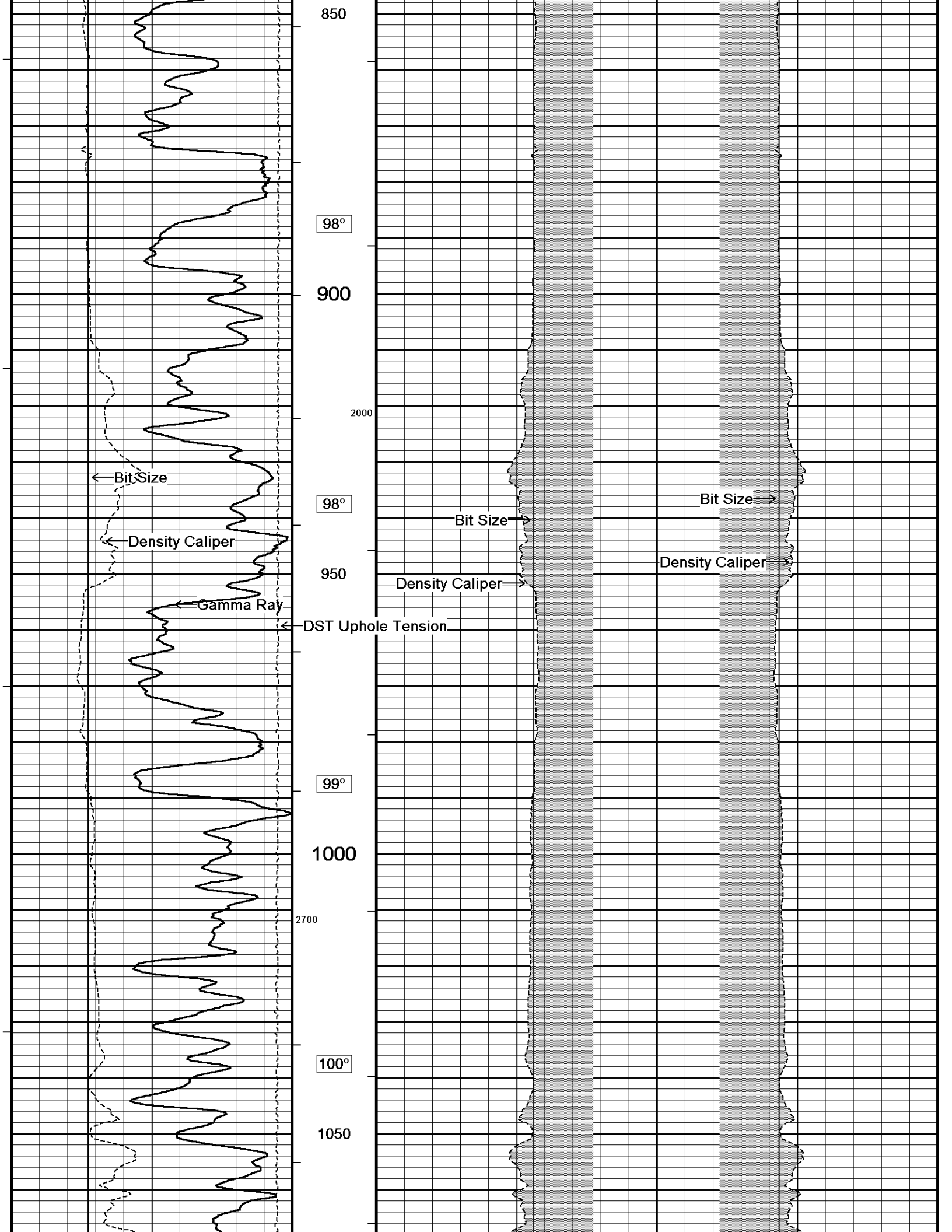
OPERATOR(S): M. VERSLUIS, J. PEHRSON

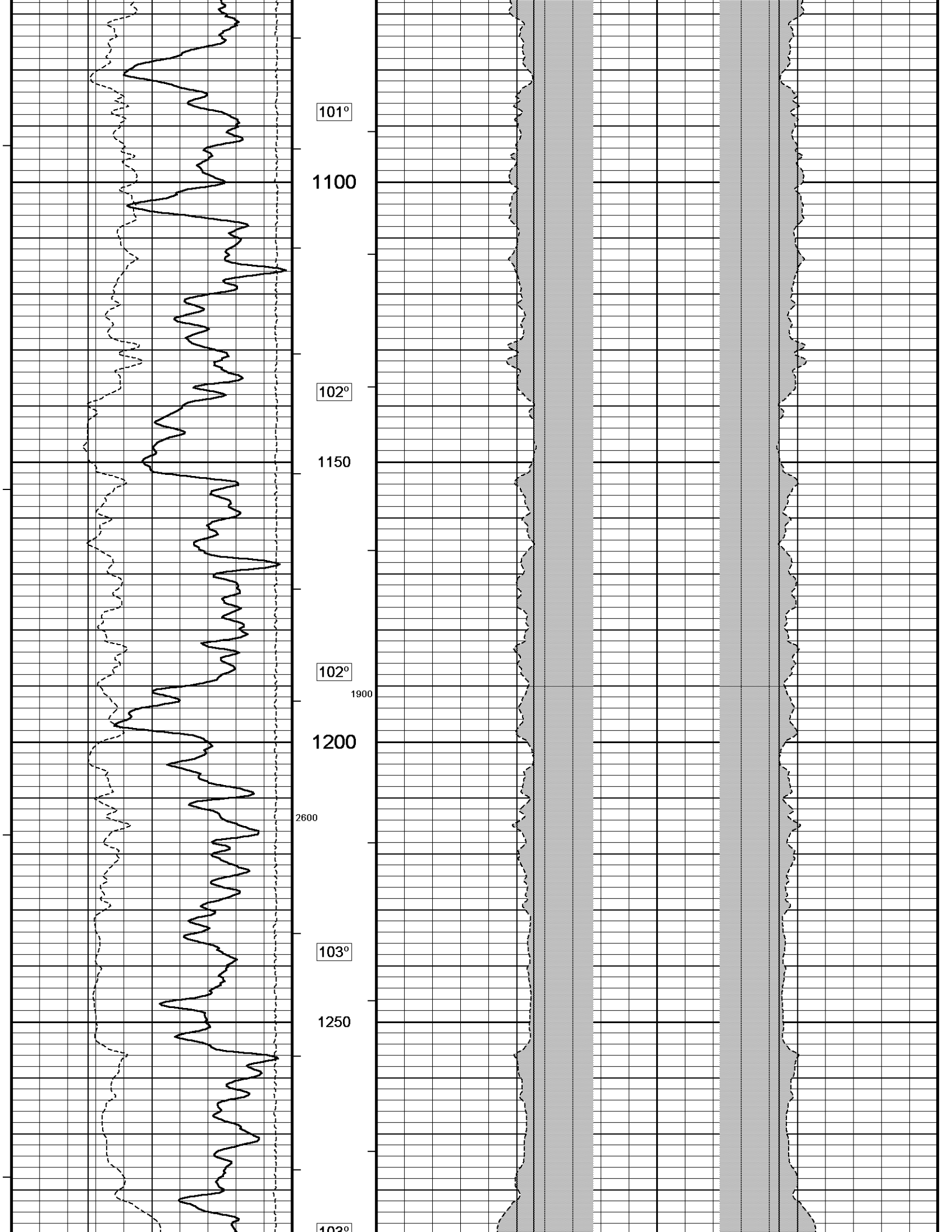
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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

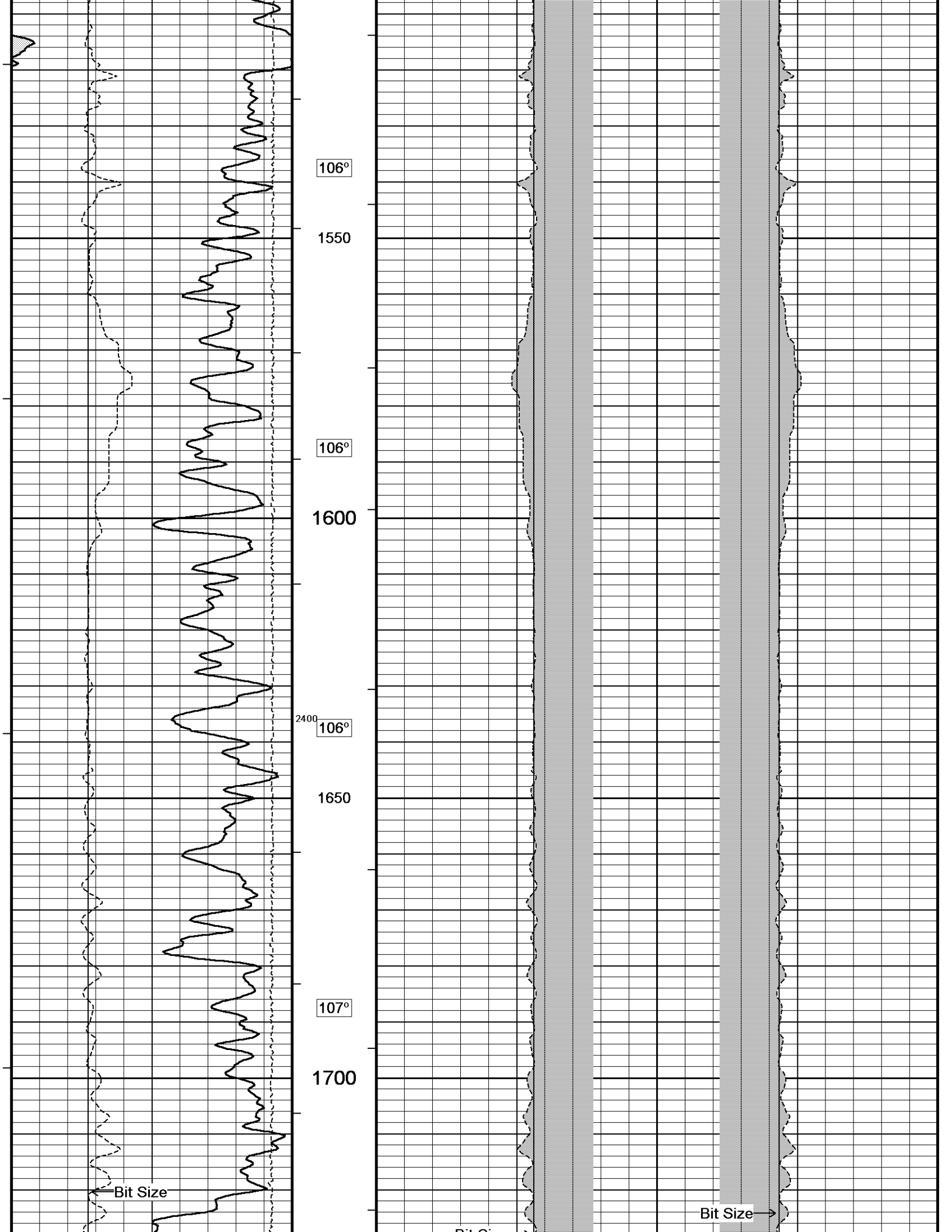
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-MAY-2011 03:50
 Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\MAIN.dta Recorded on 16-MAY-2011 00:18
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

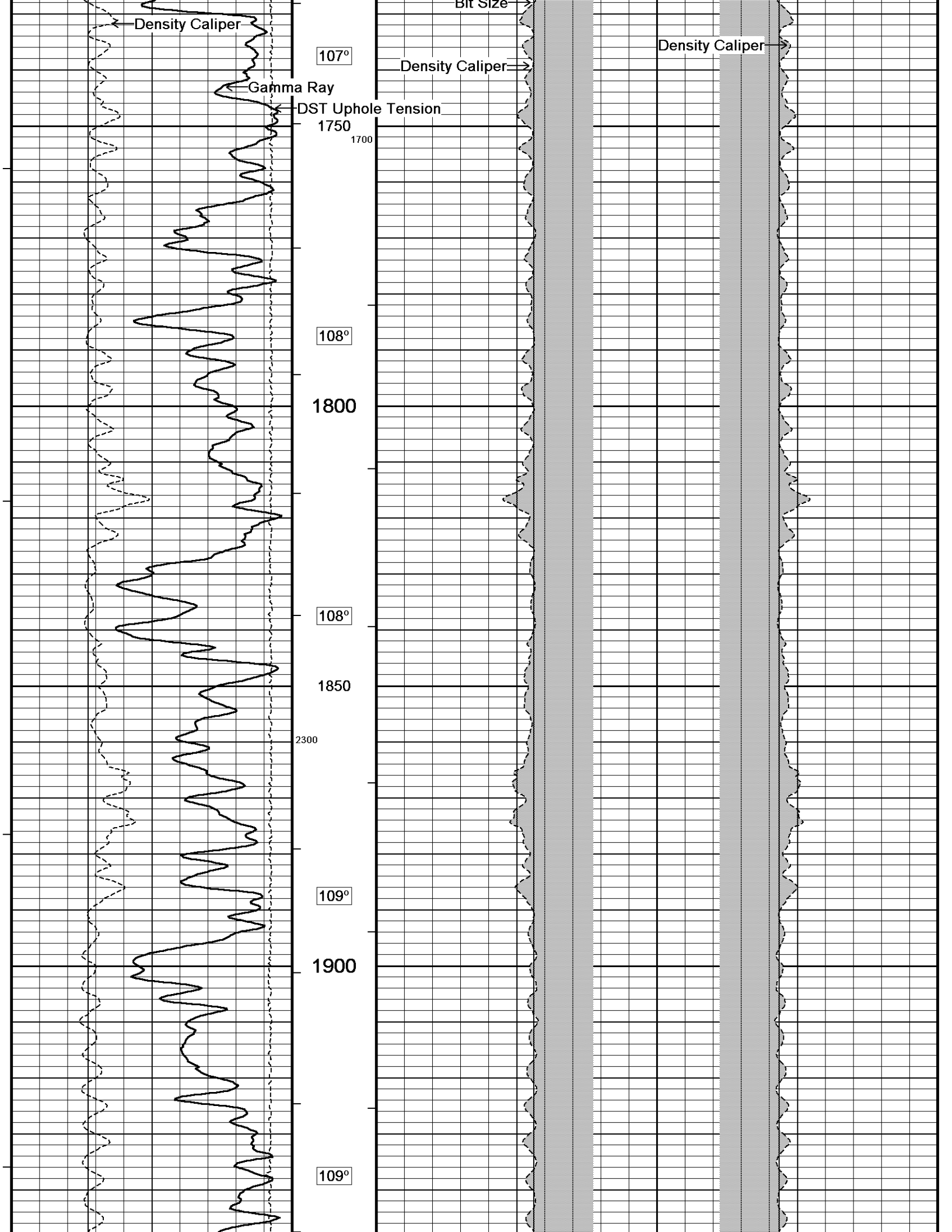


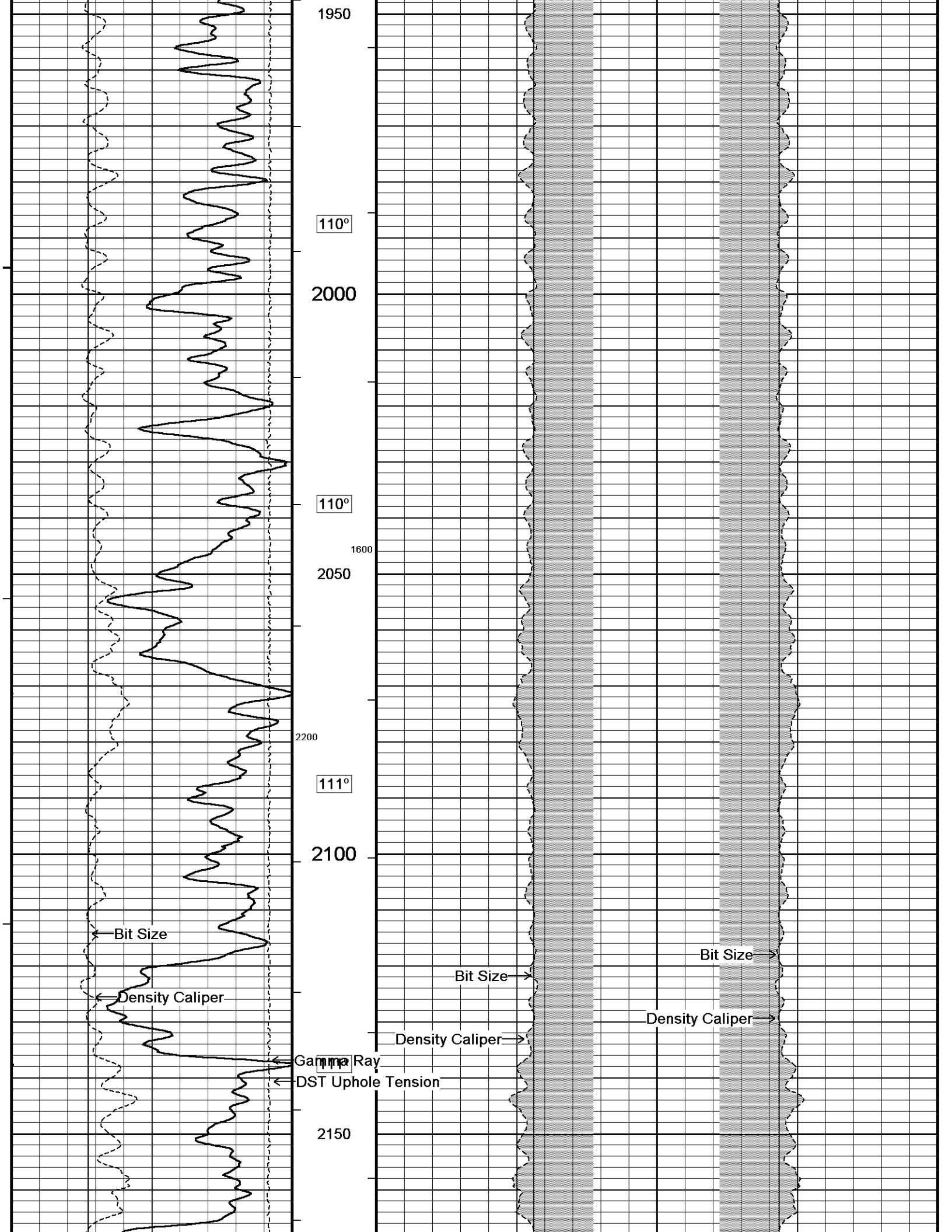


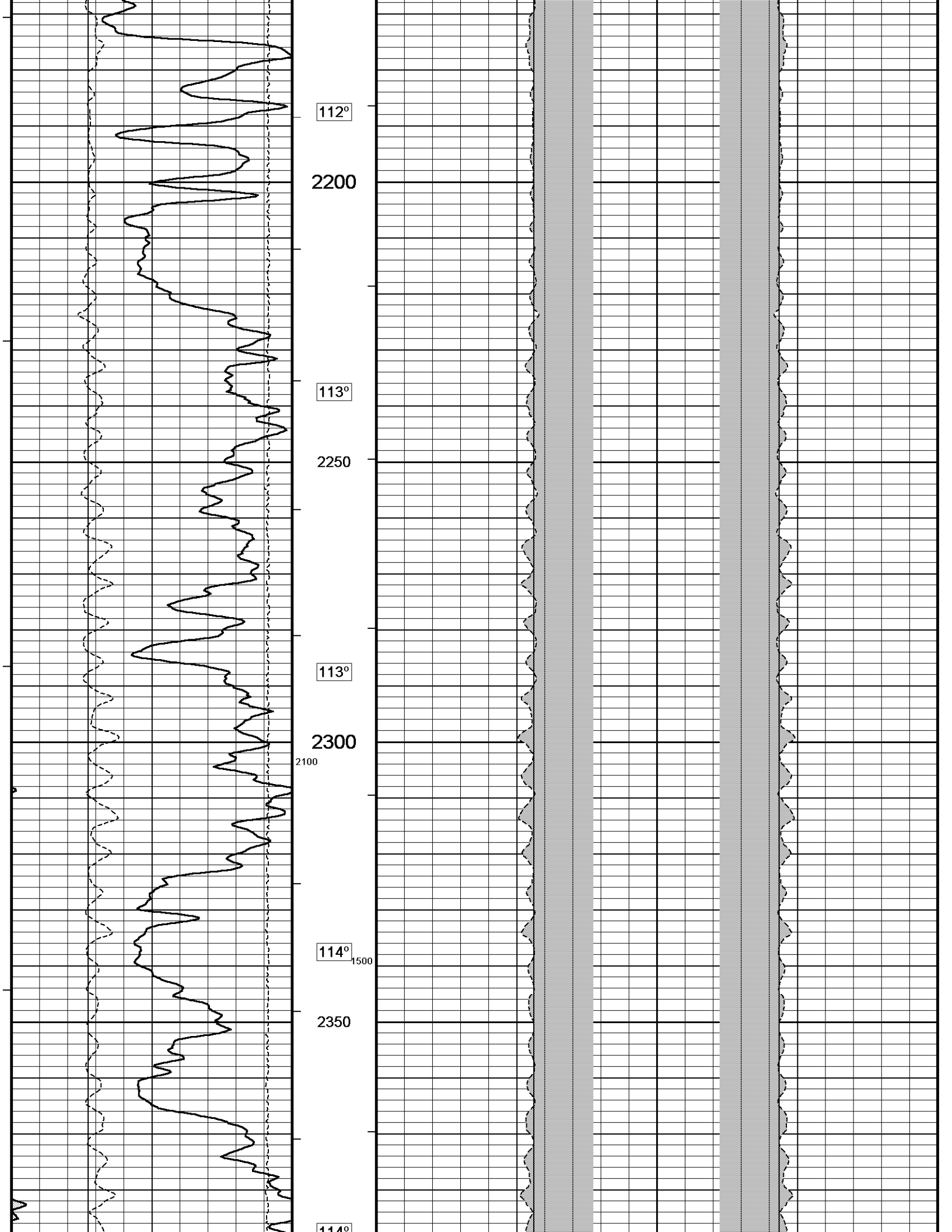


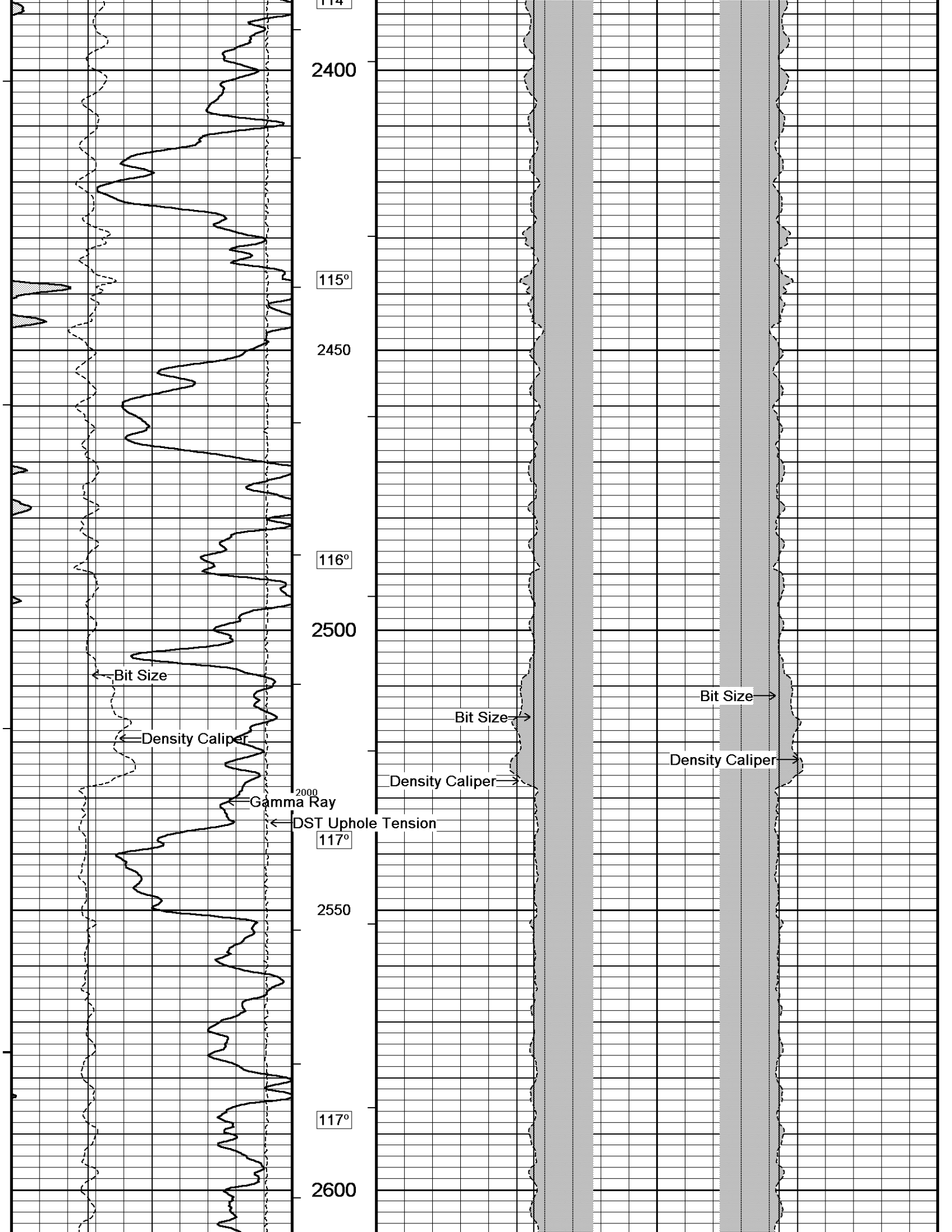


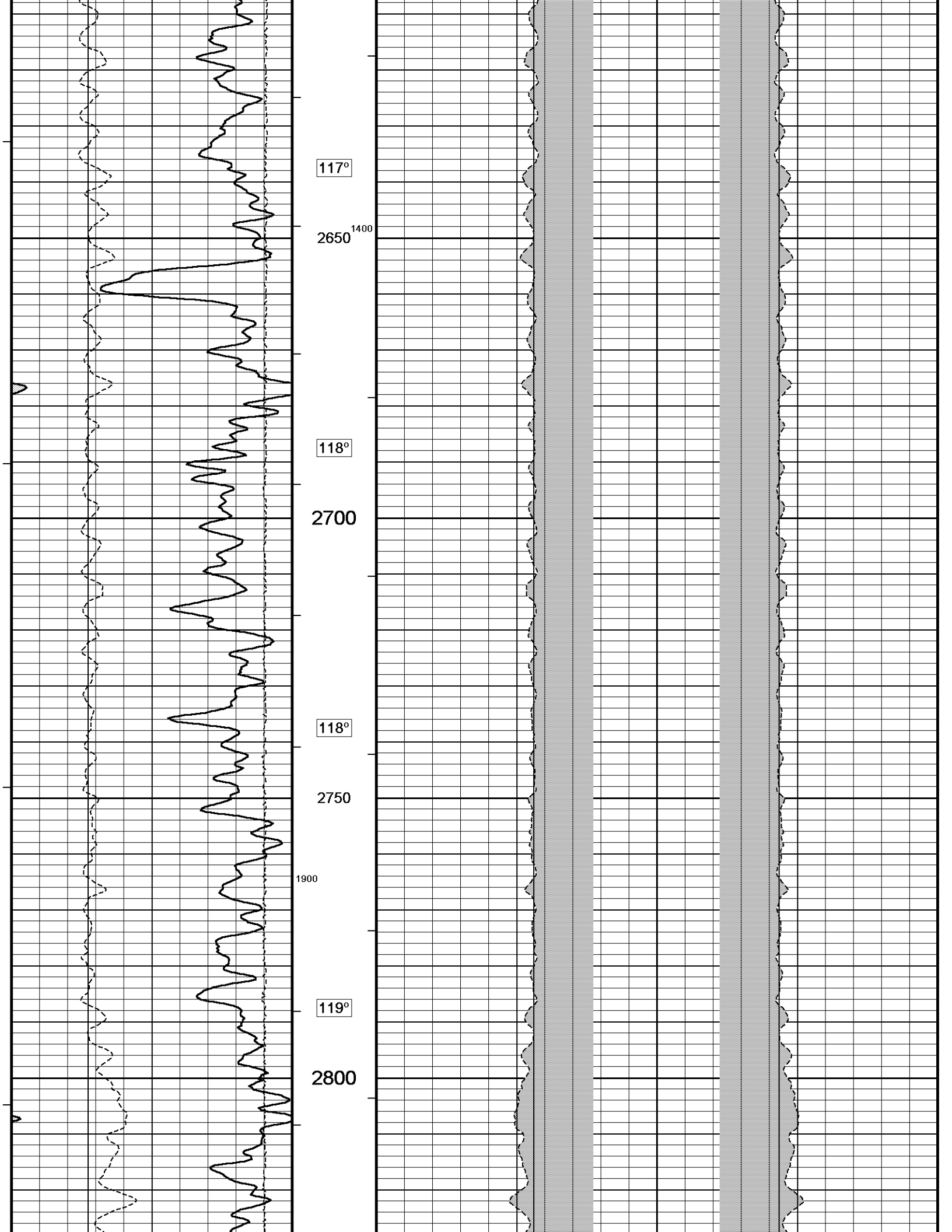


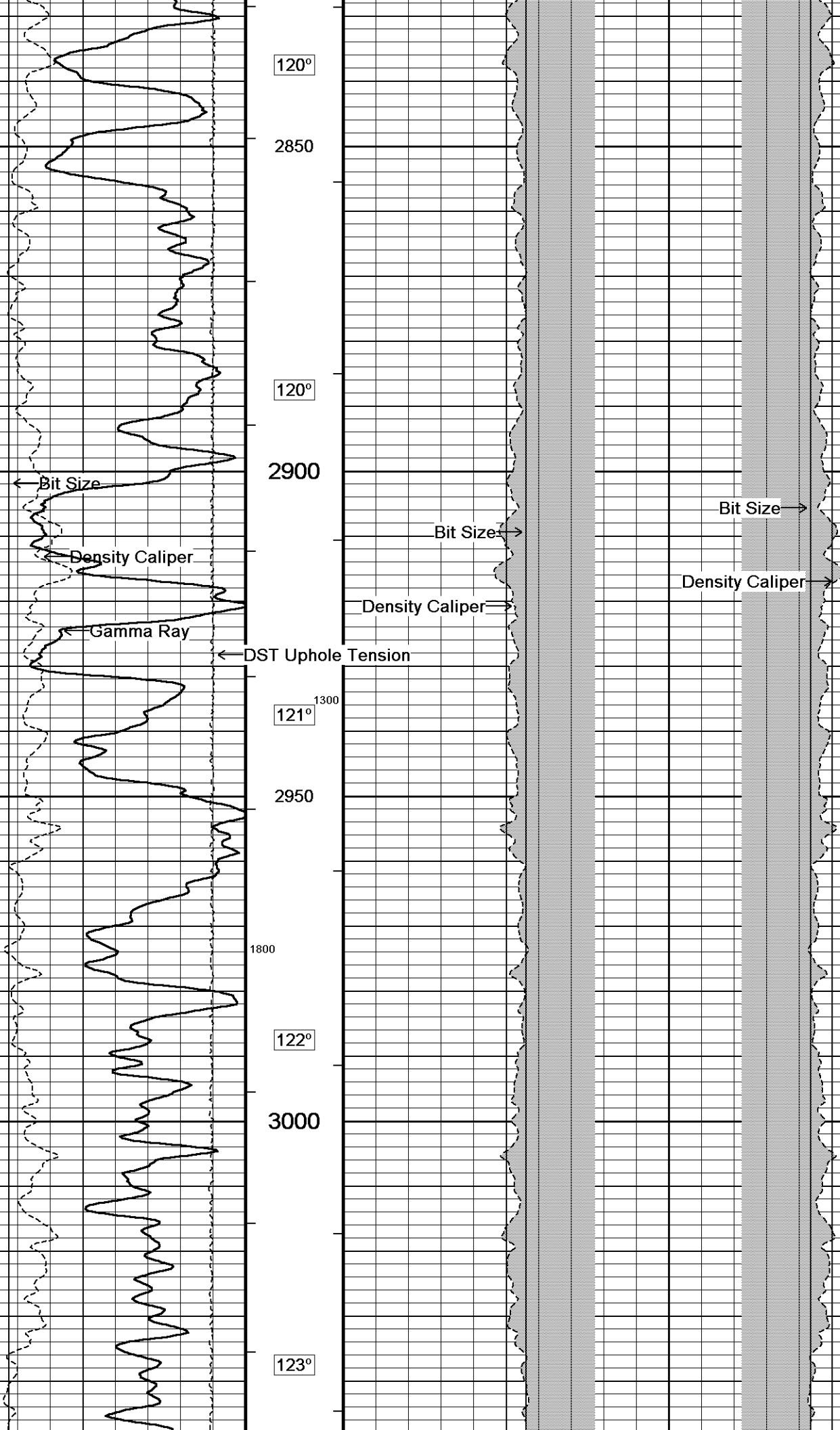


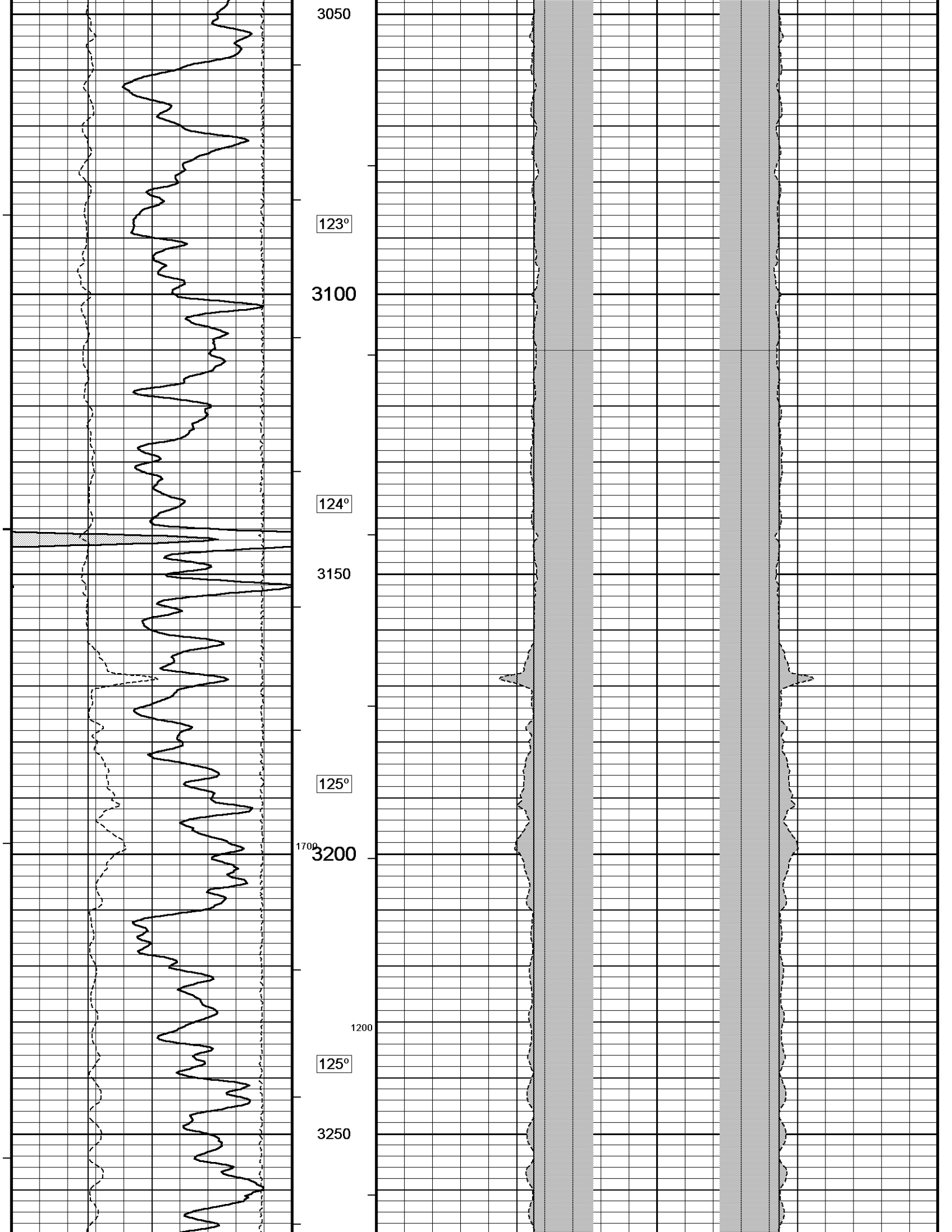


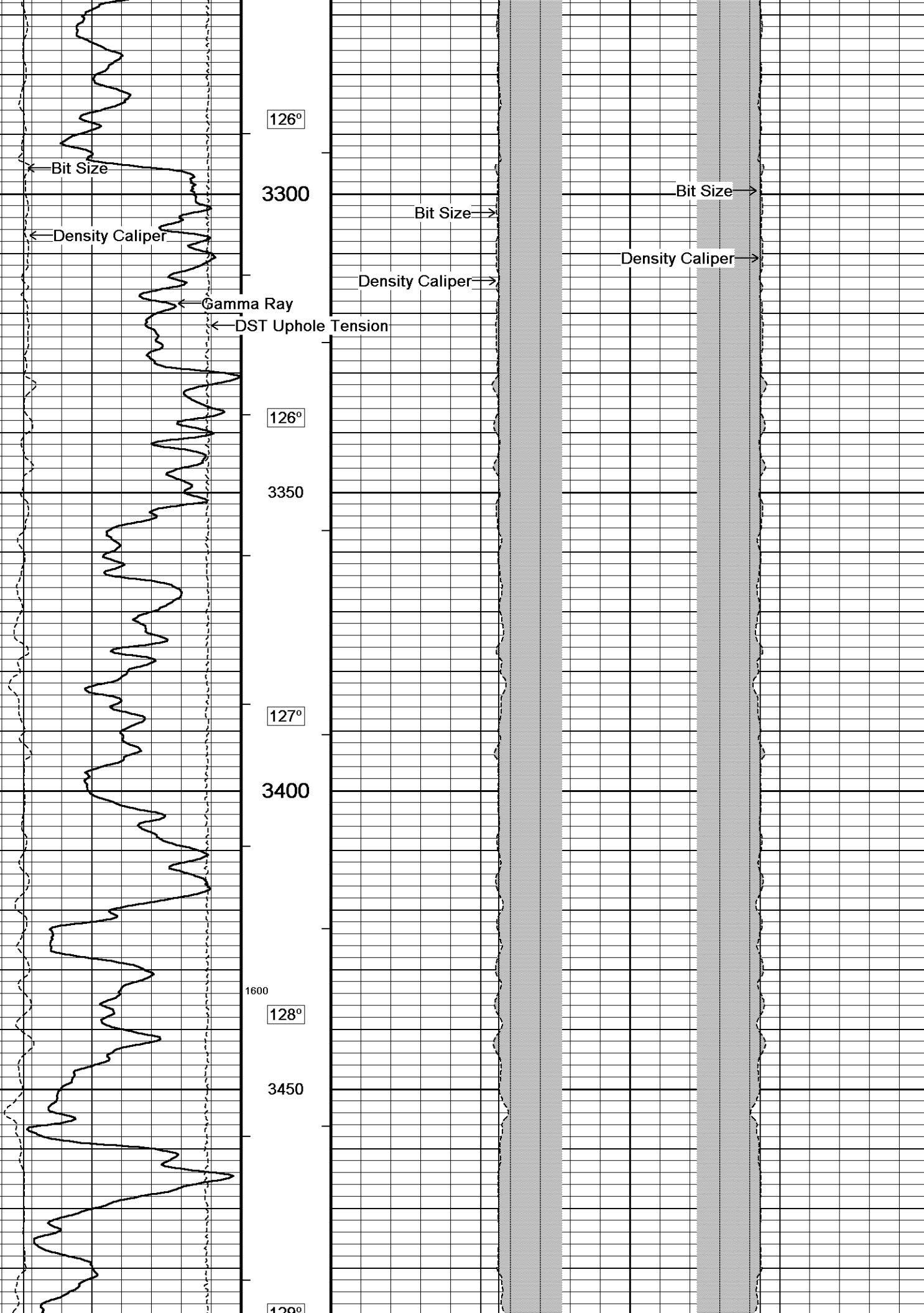


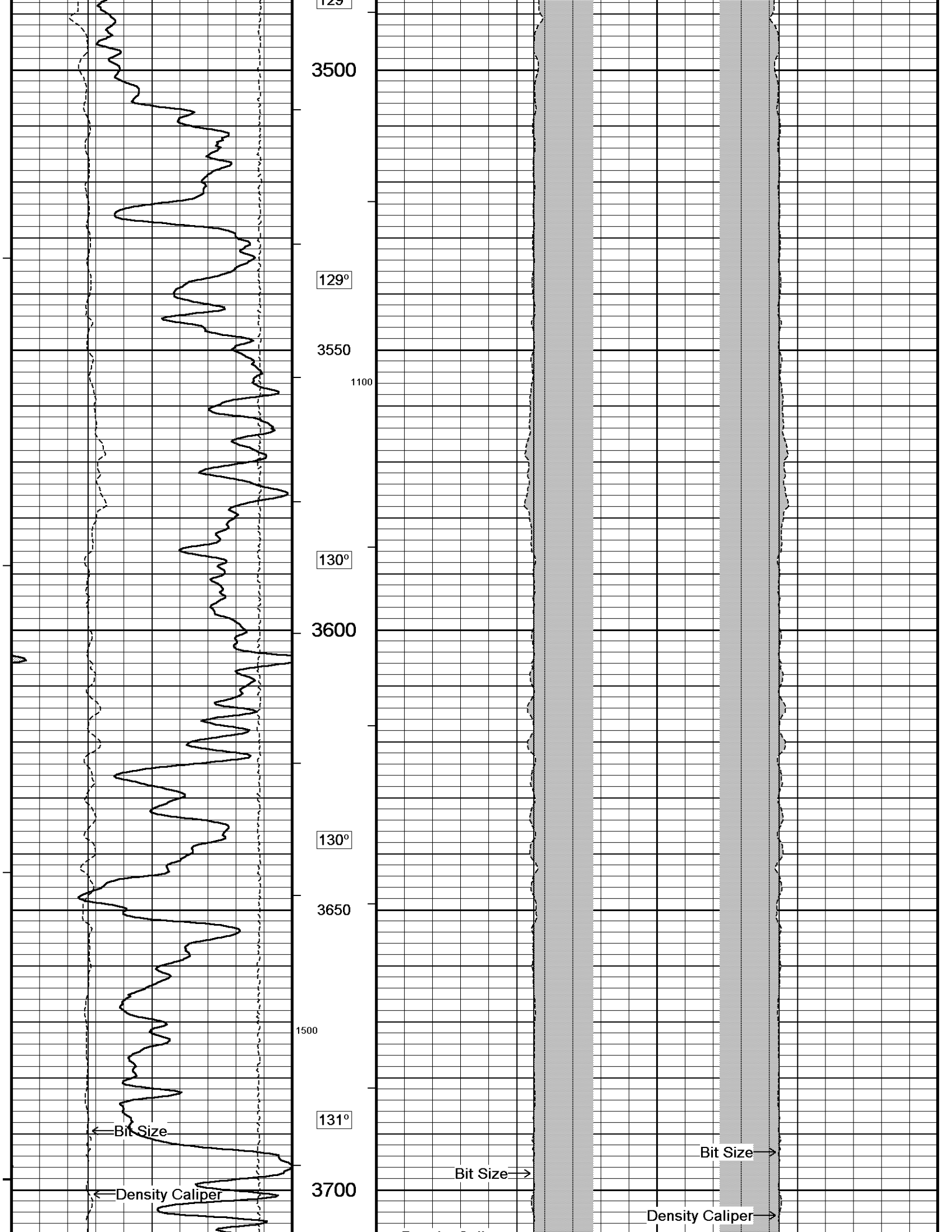


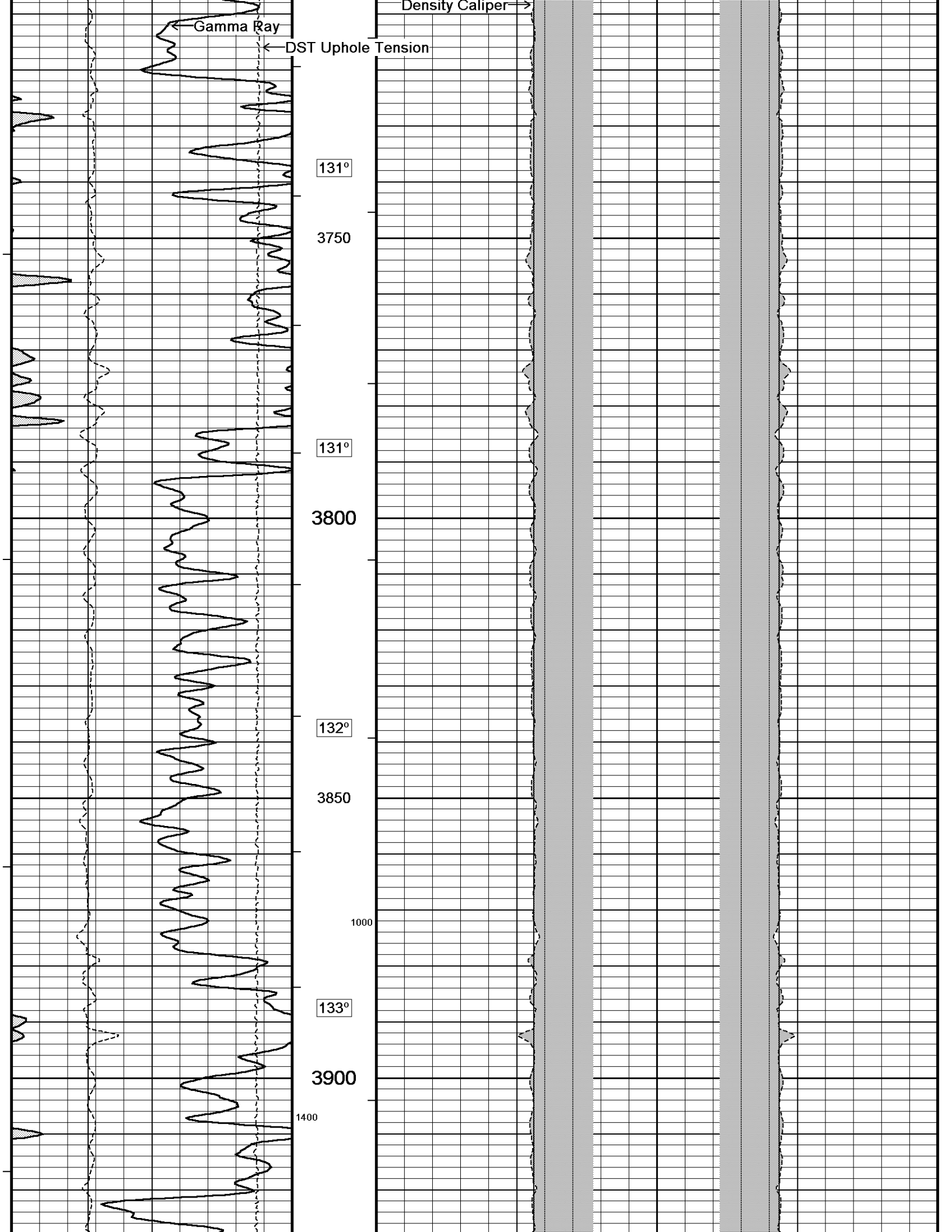


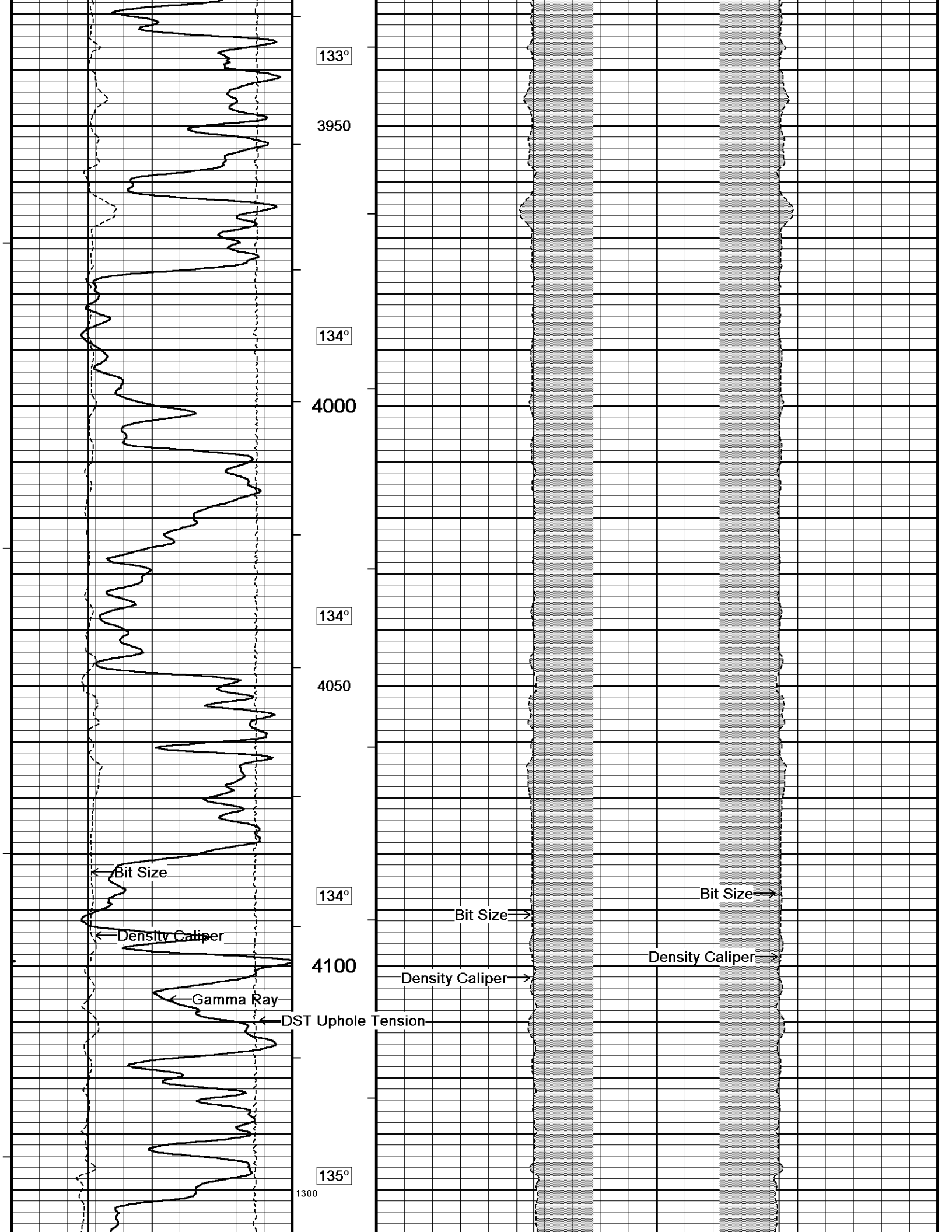


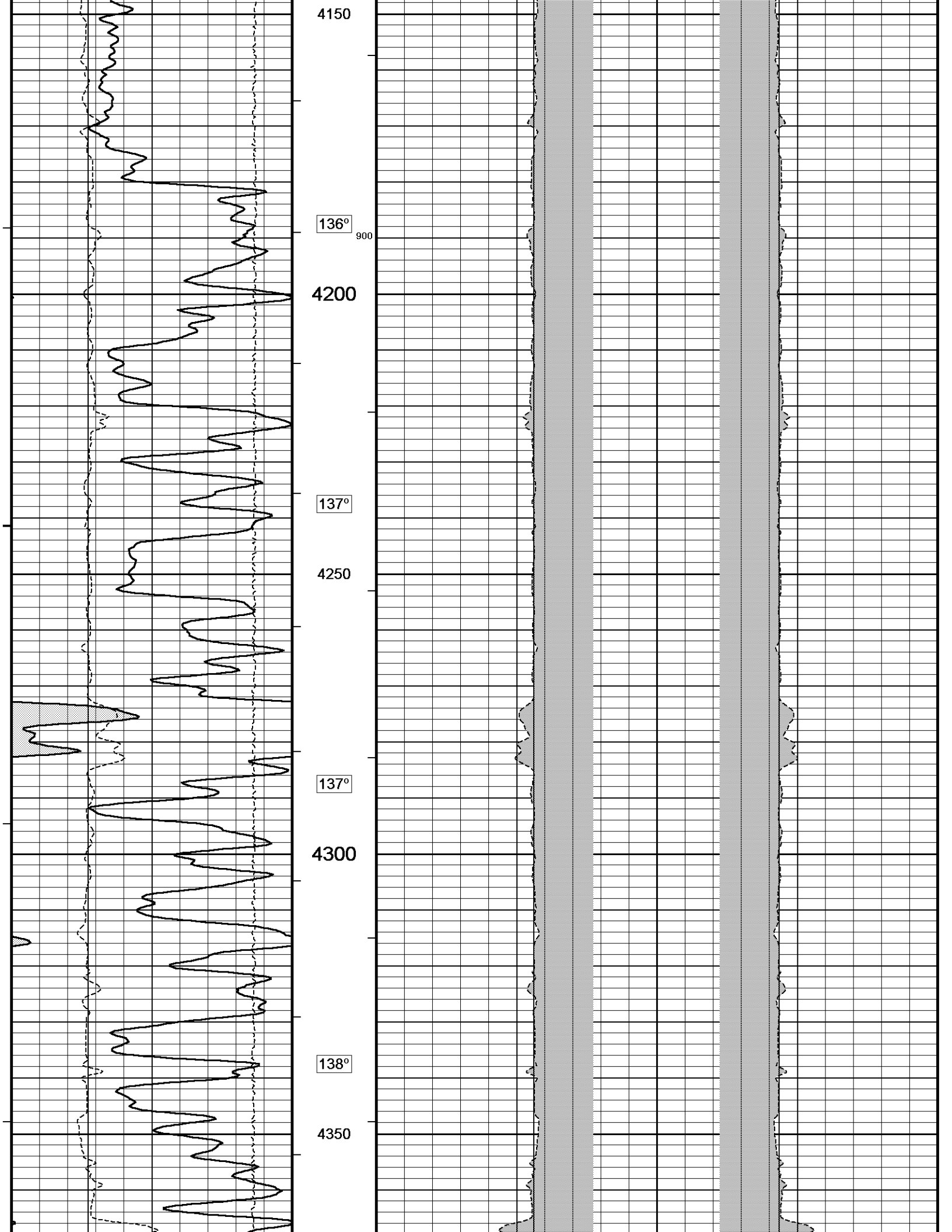


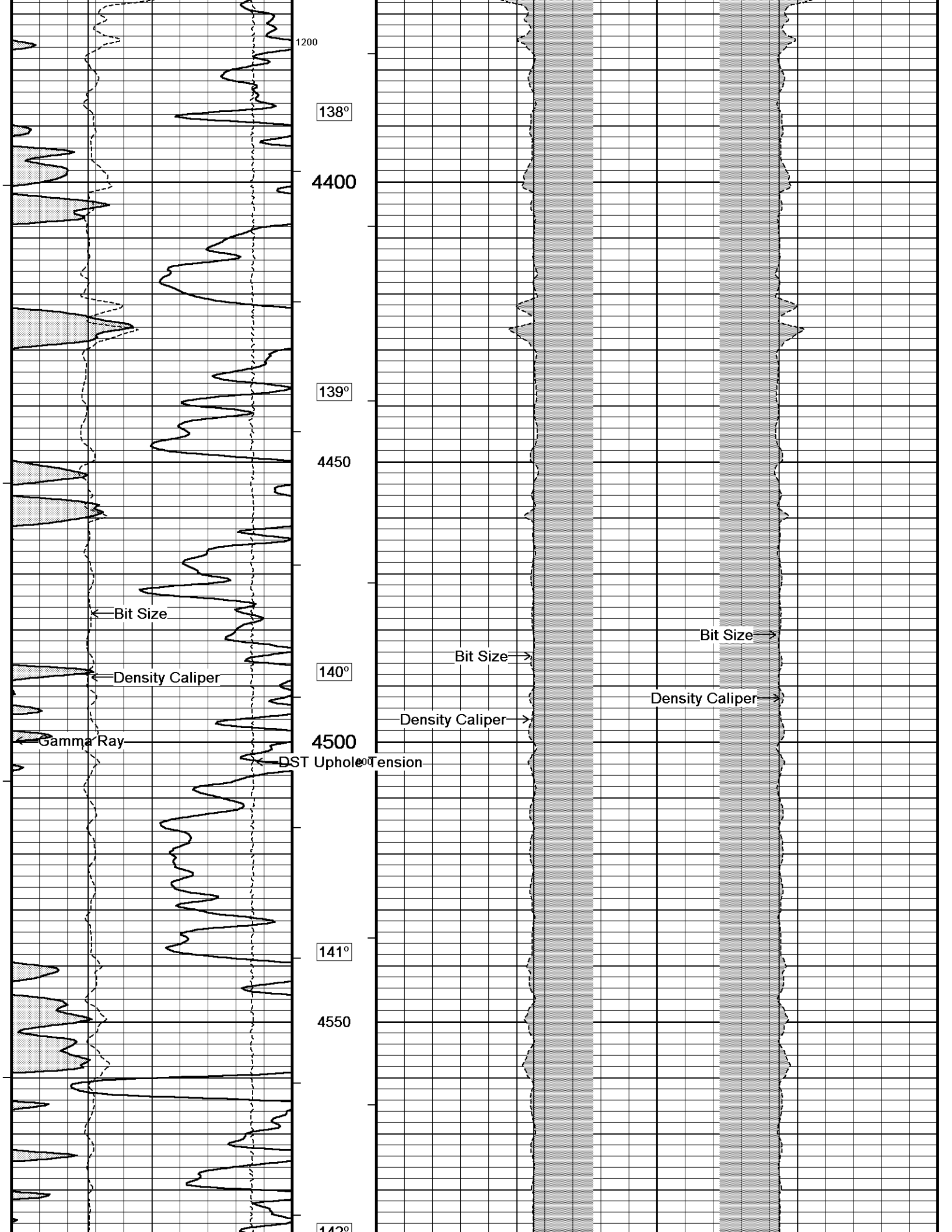


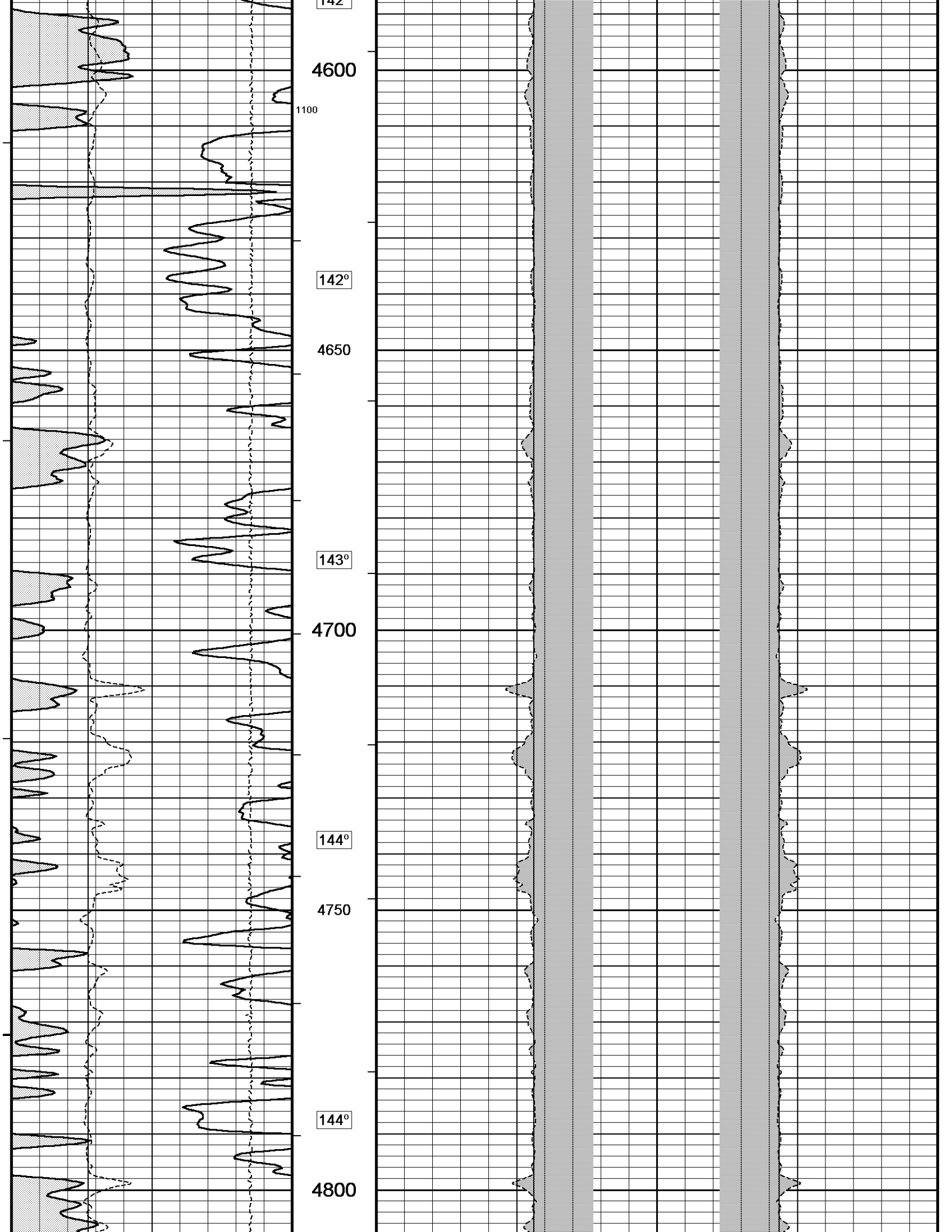


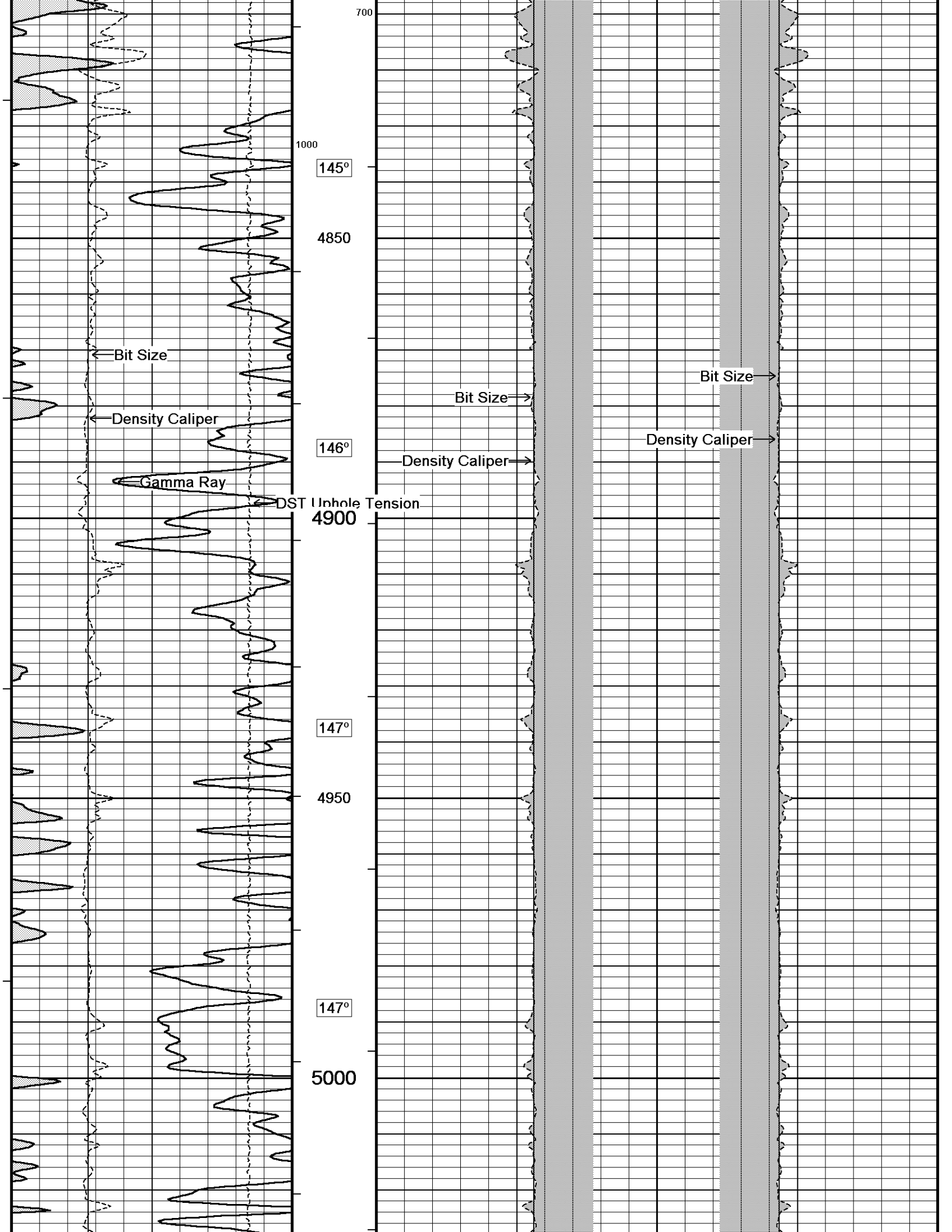


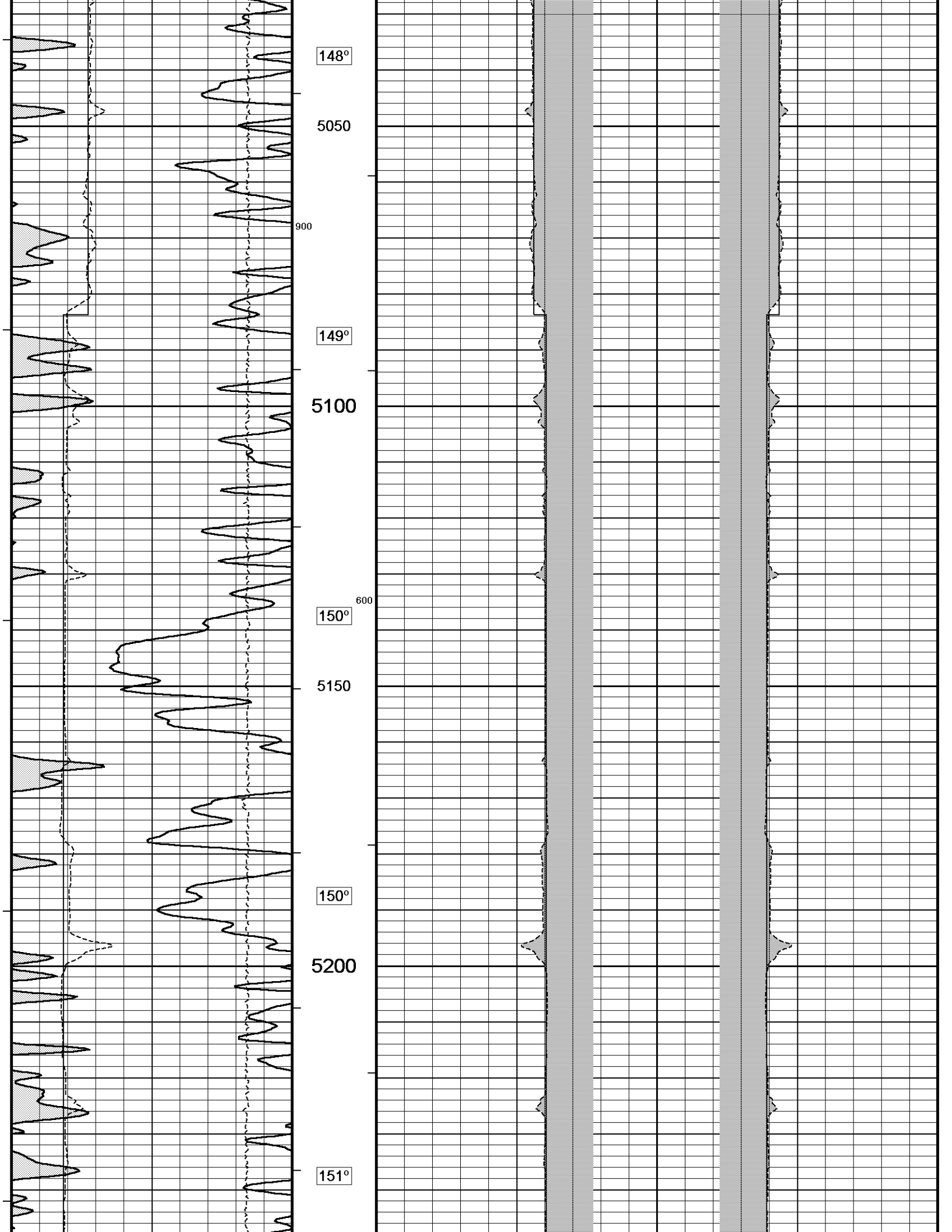


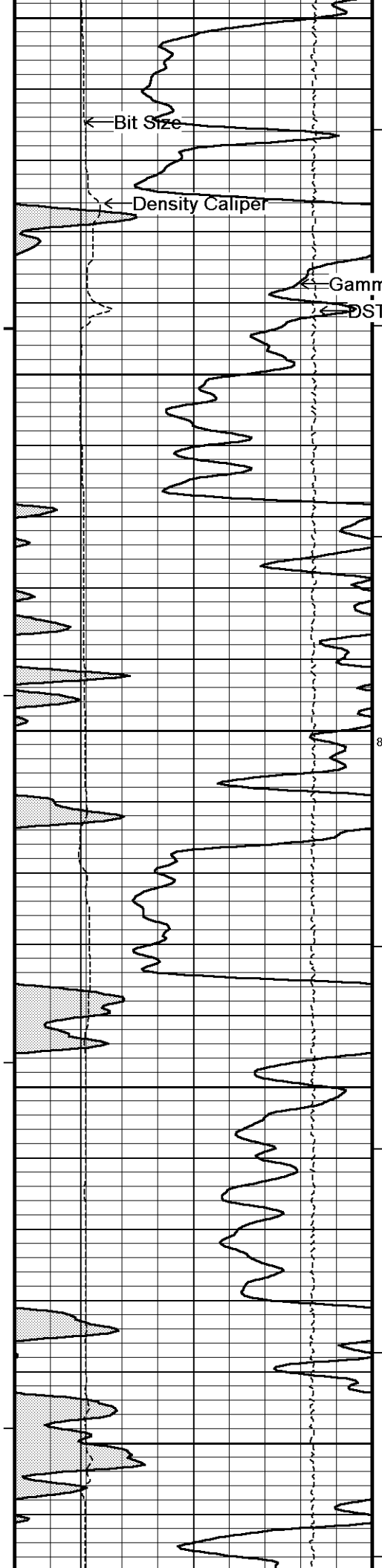










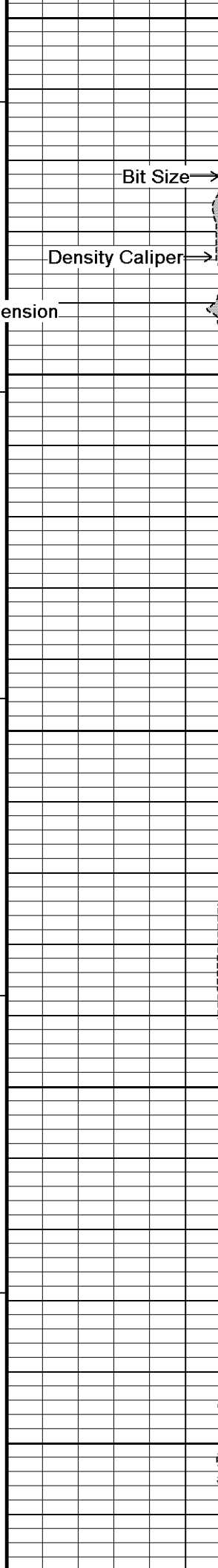


5250
5300
5350
5400
5450

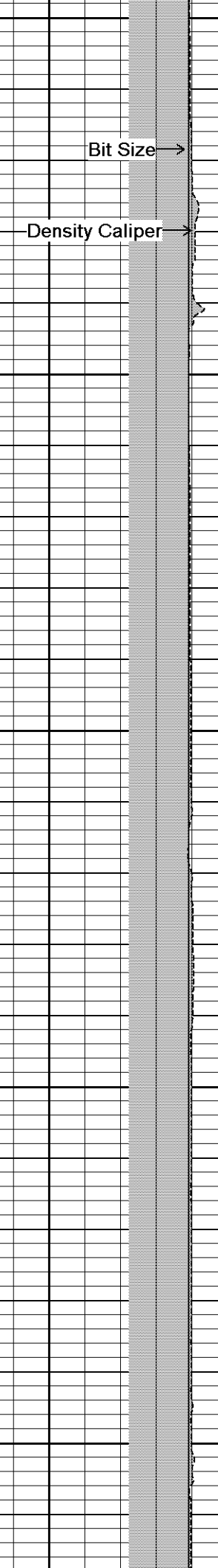
Gamma Ray
DST Uphole Tension

152°
153°
154°

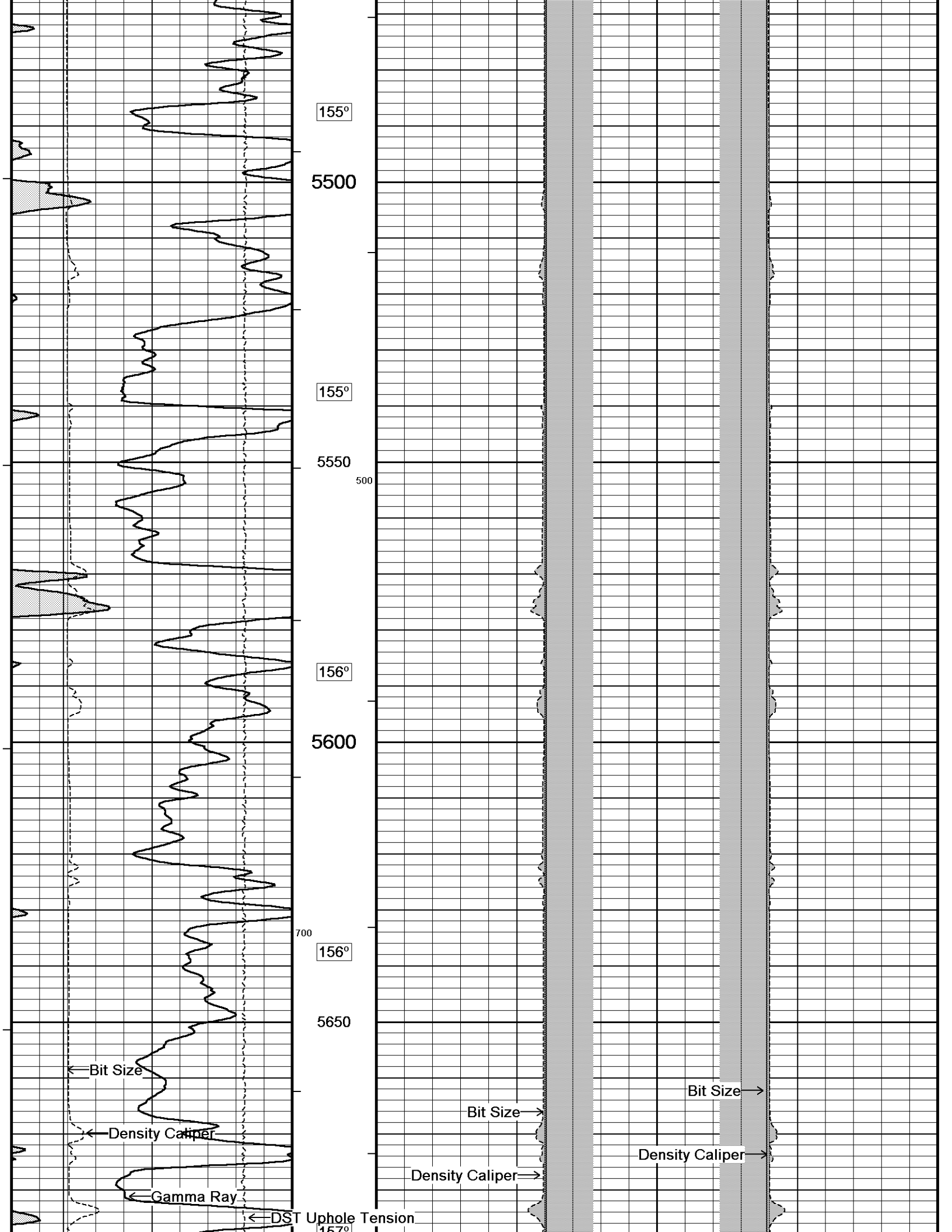
800

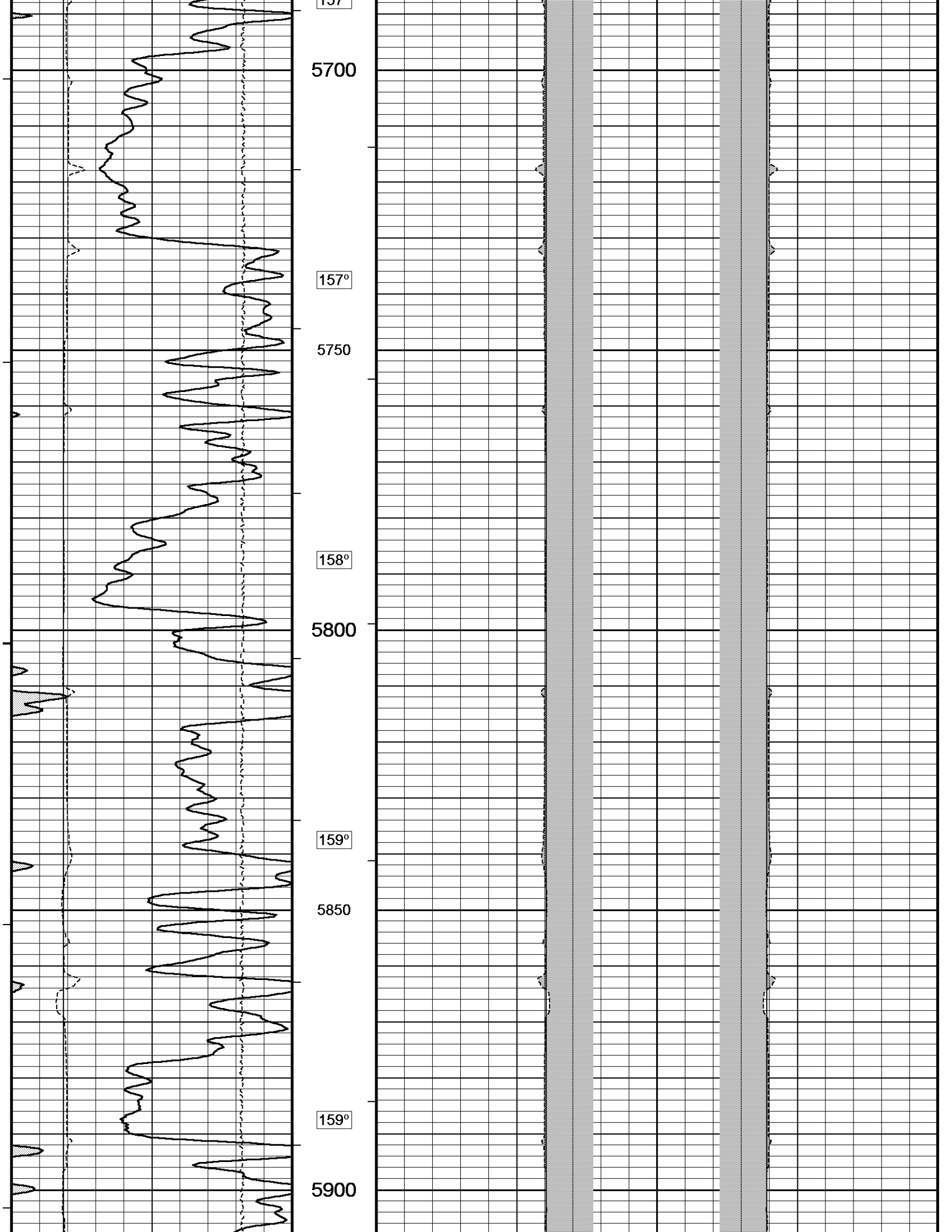


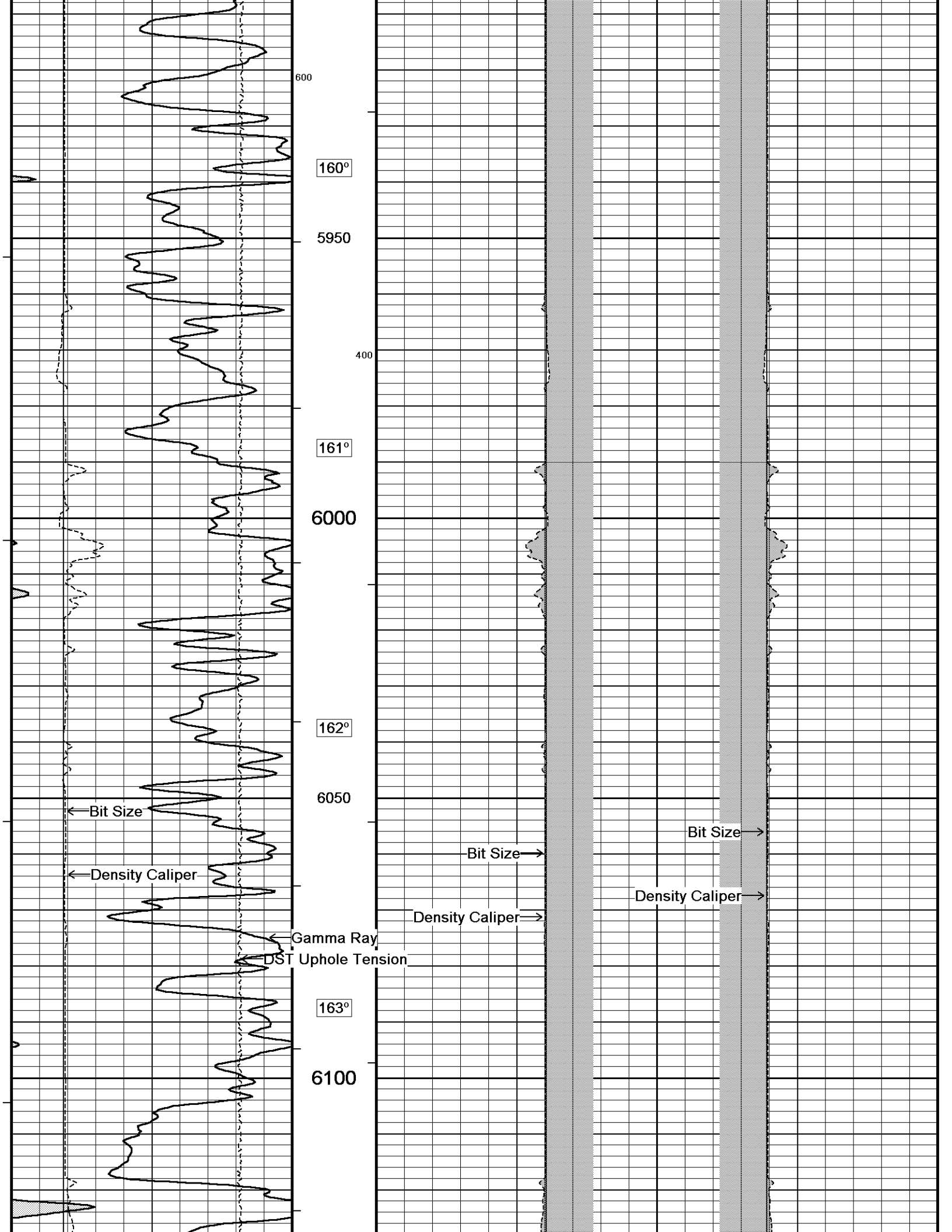
Bit Size
Density Caliper

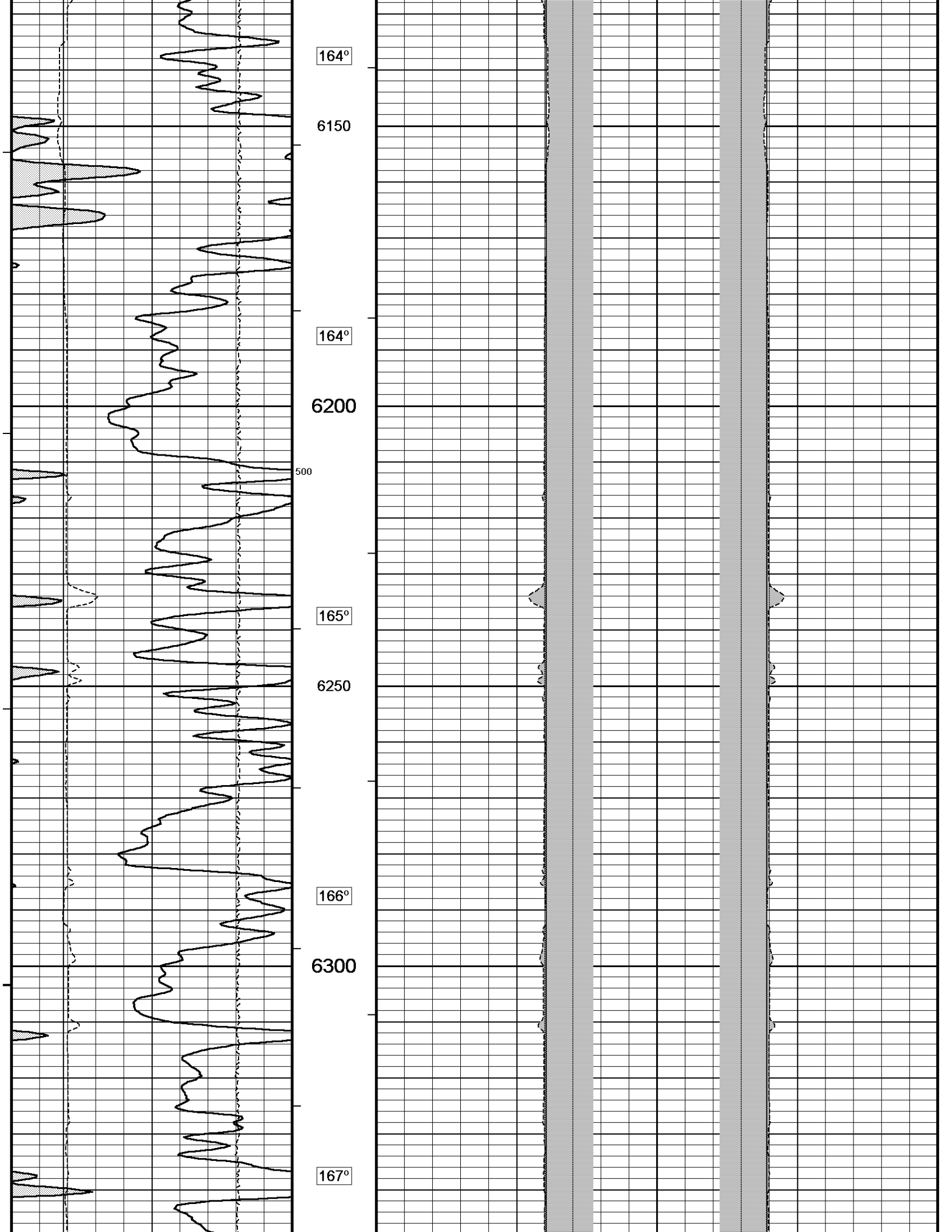


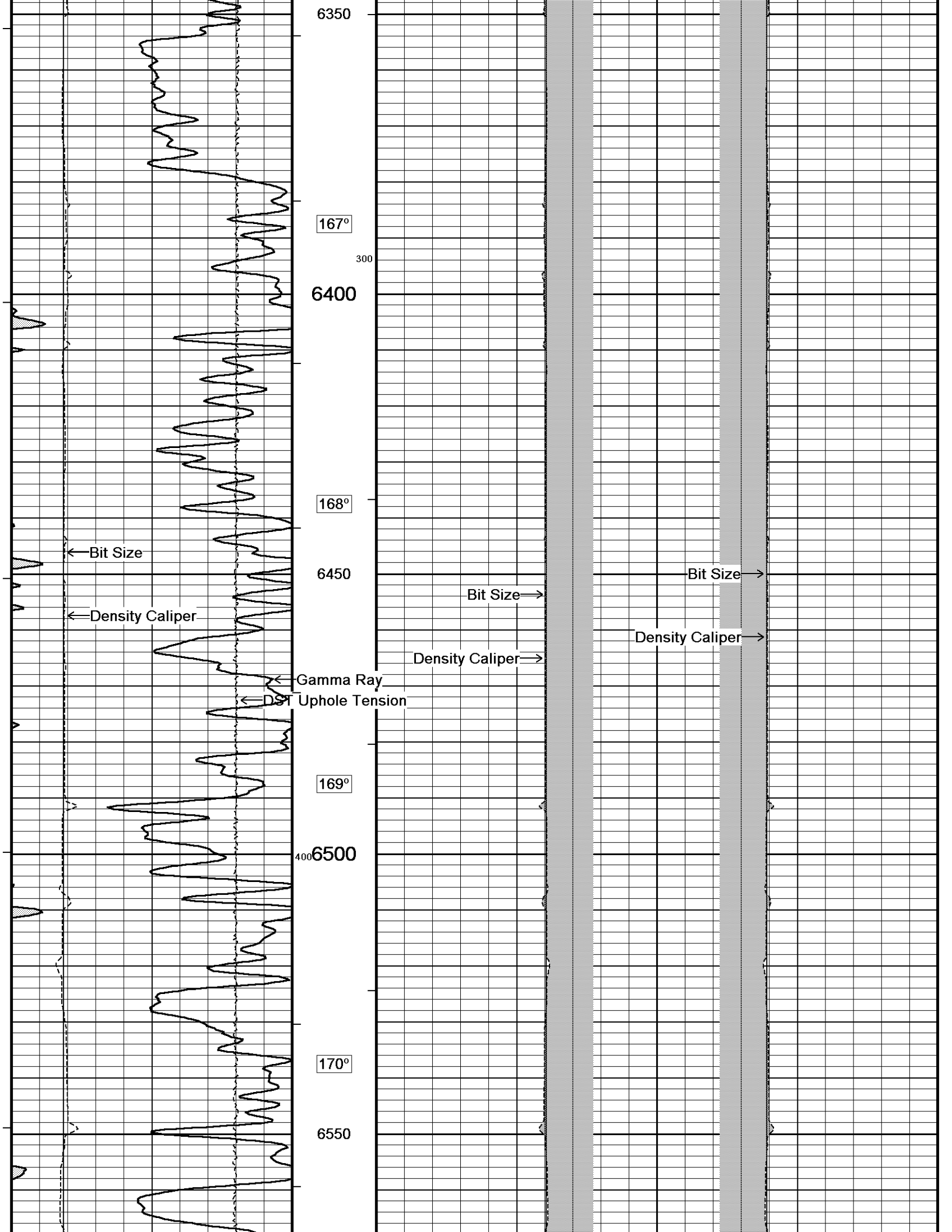
Bit Size
Density Caliper

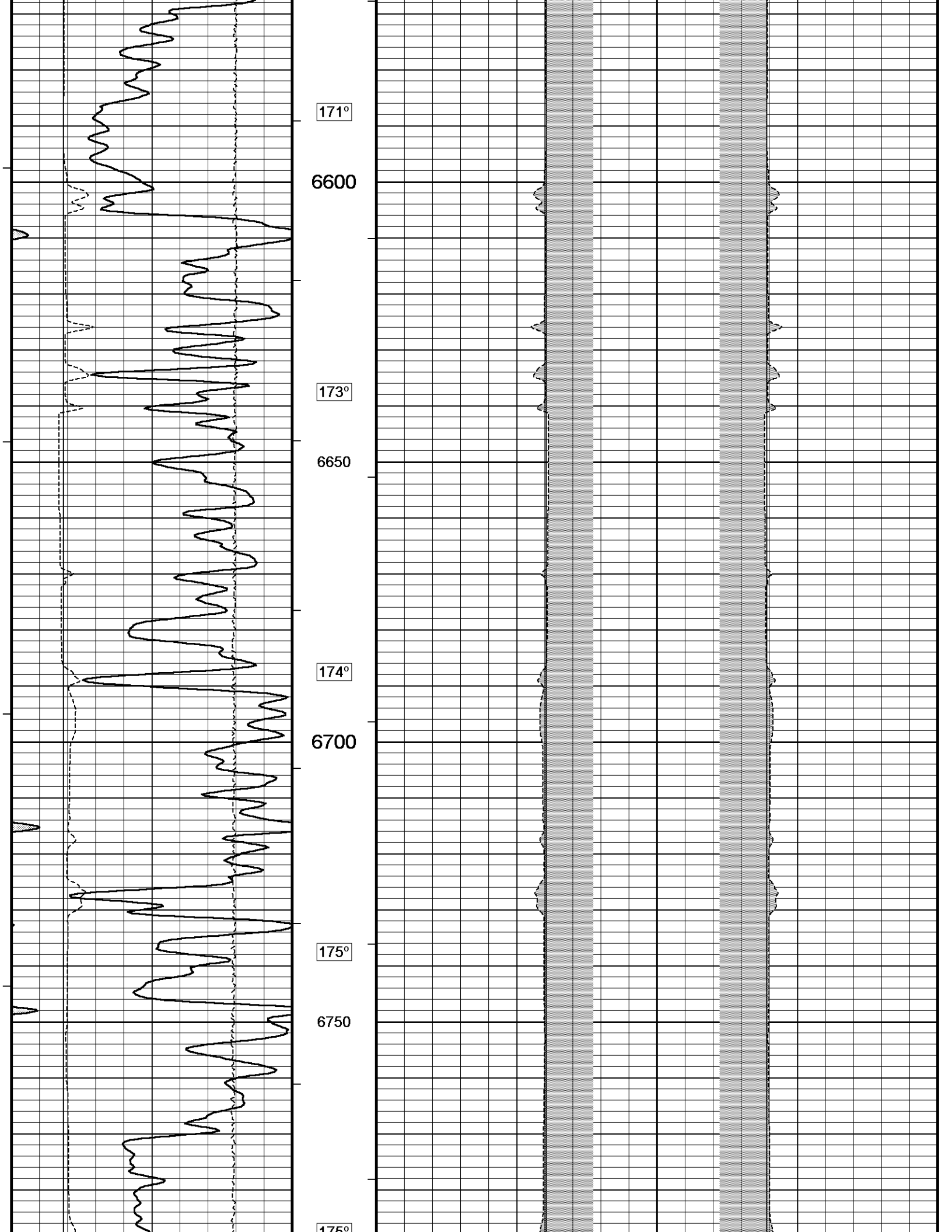


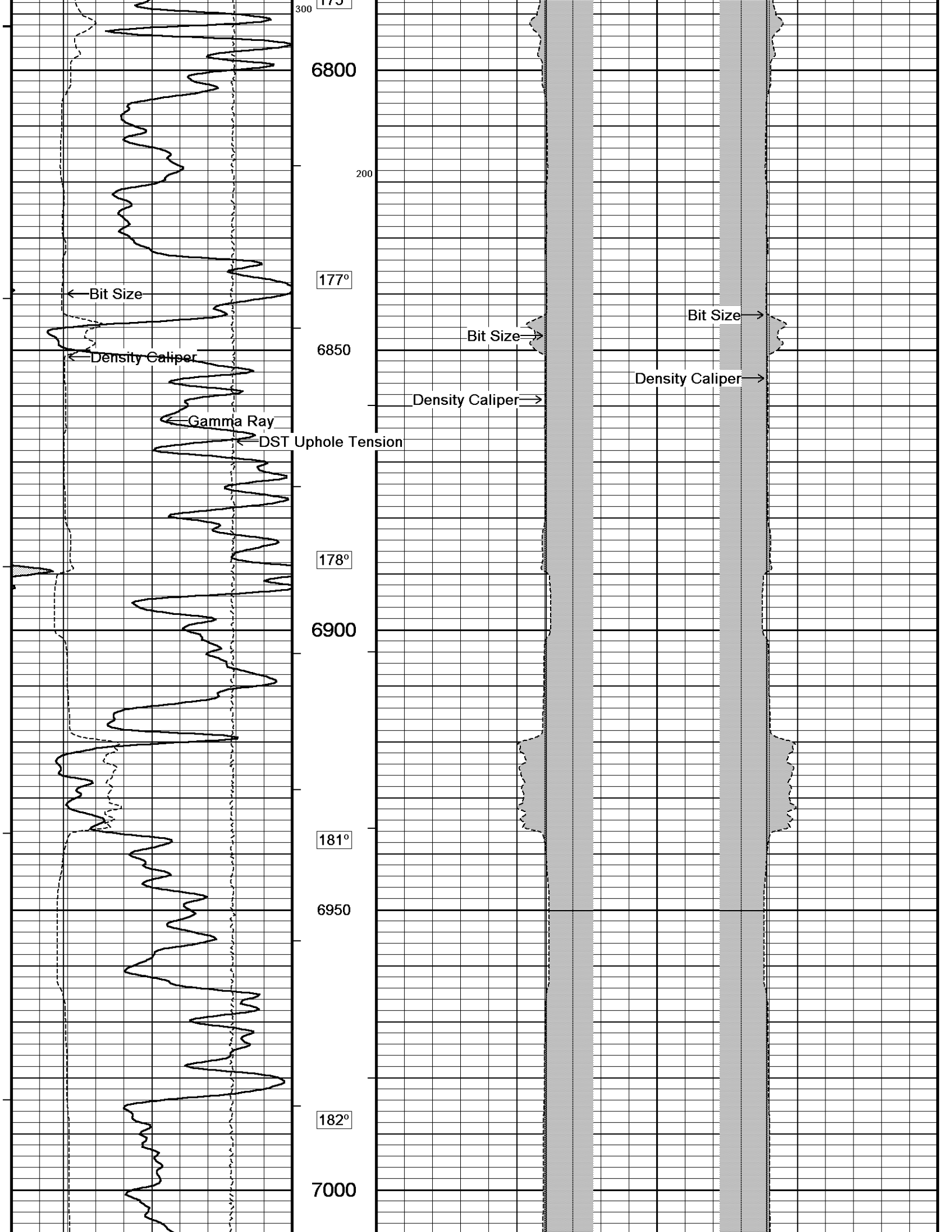


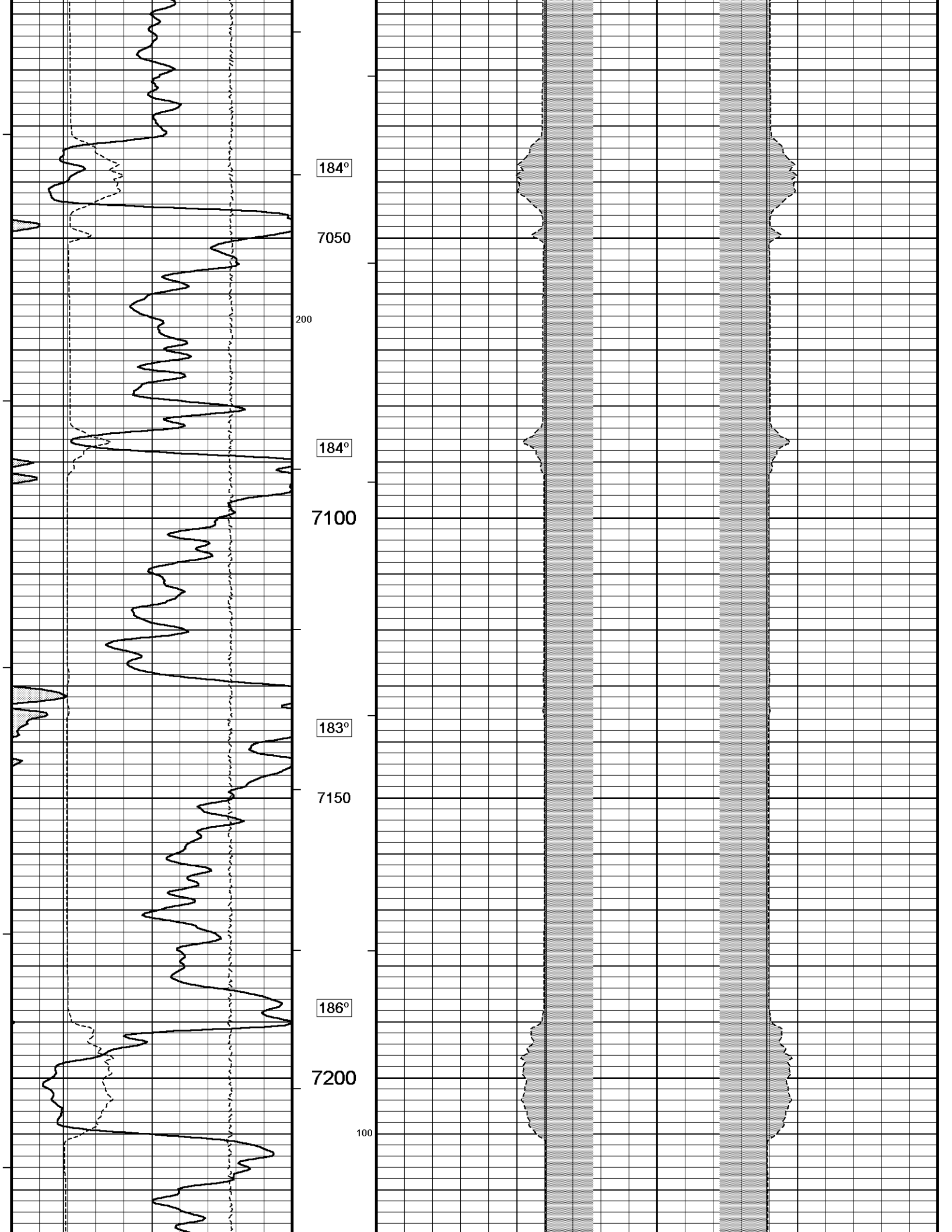


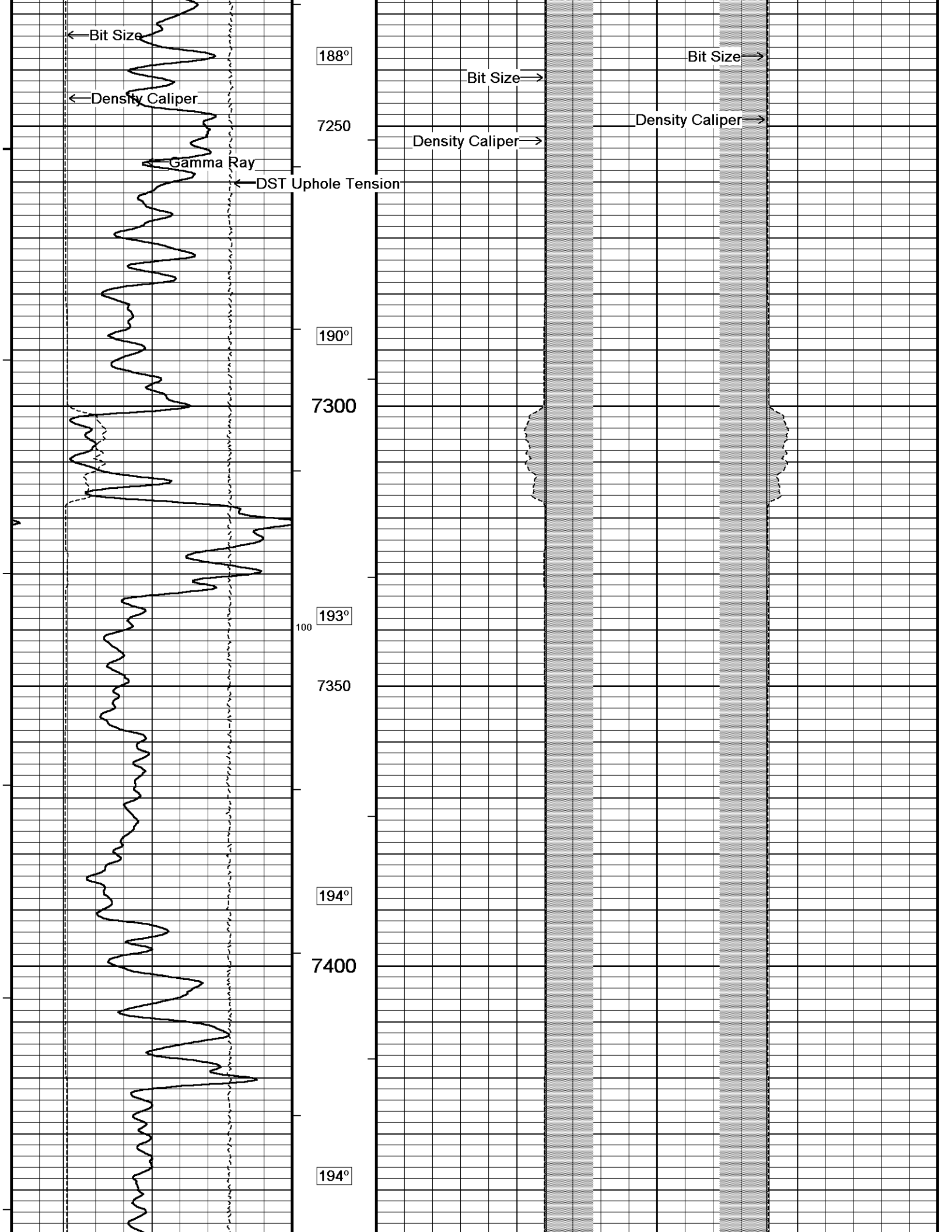


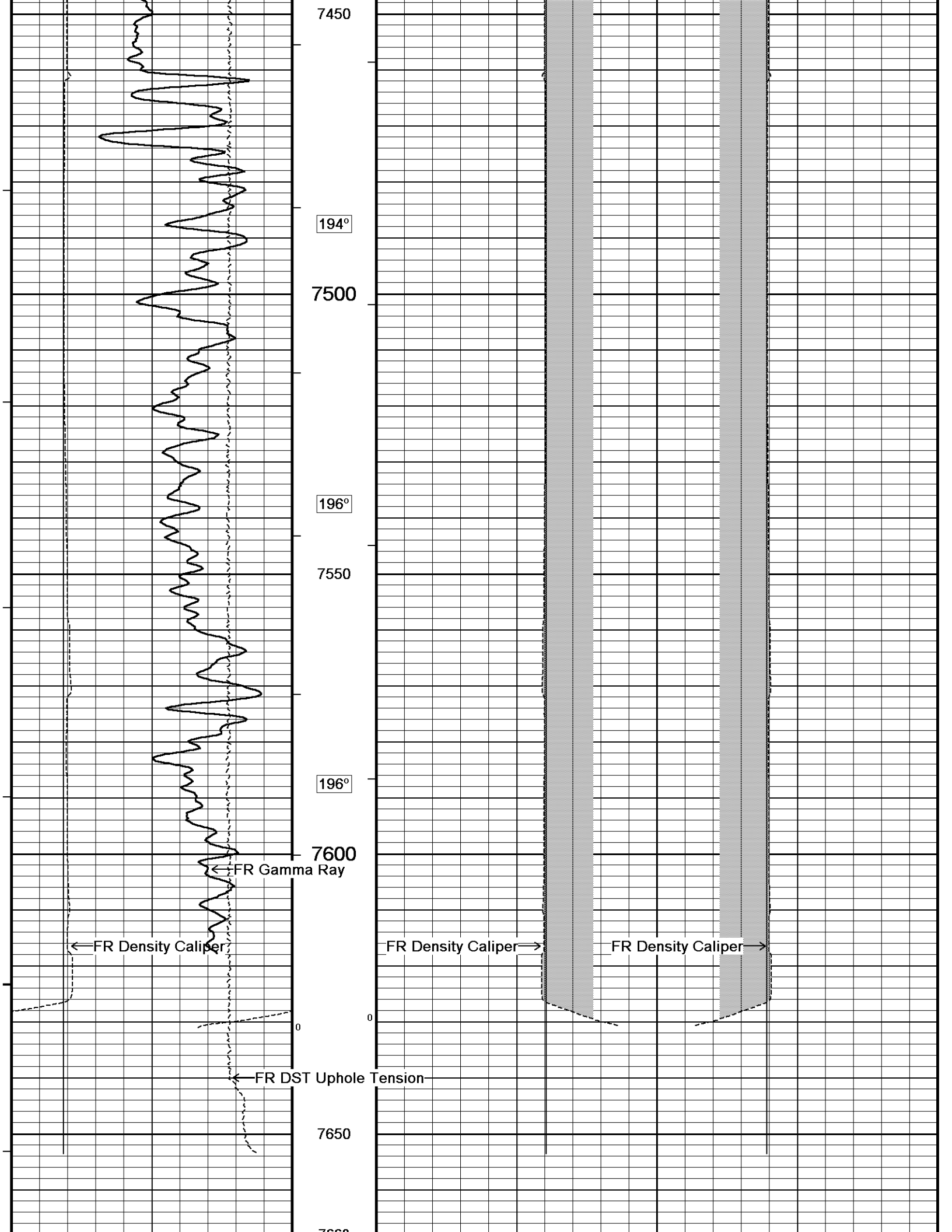


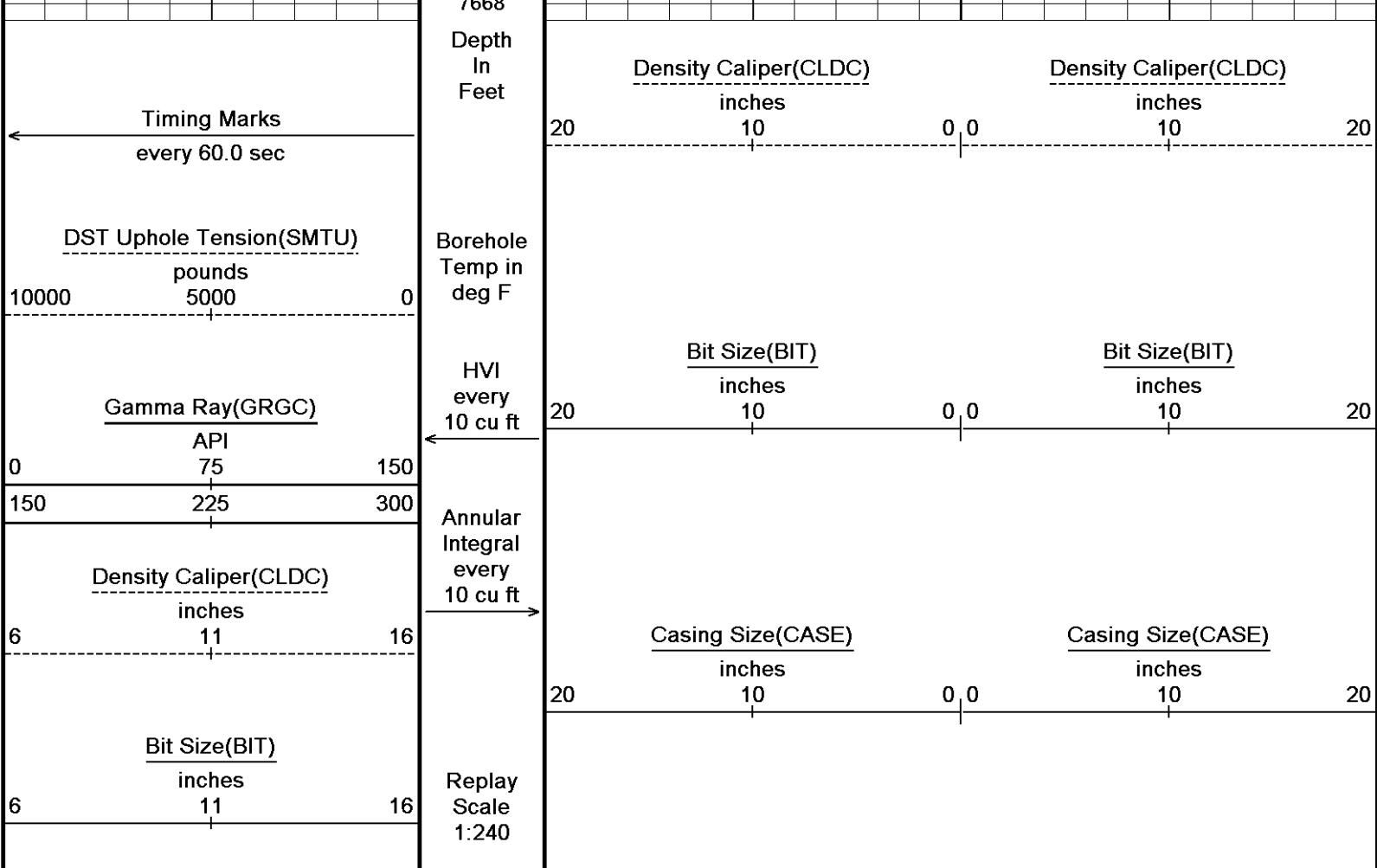












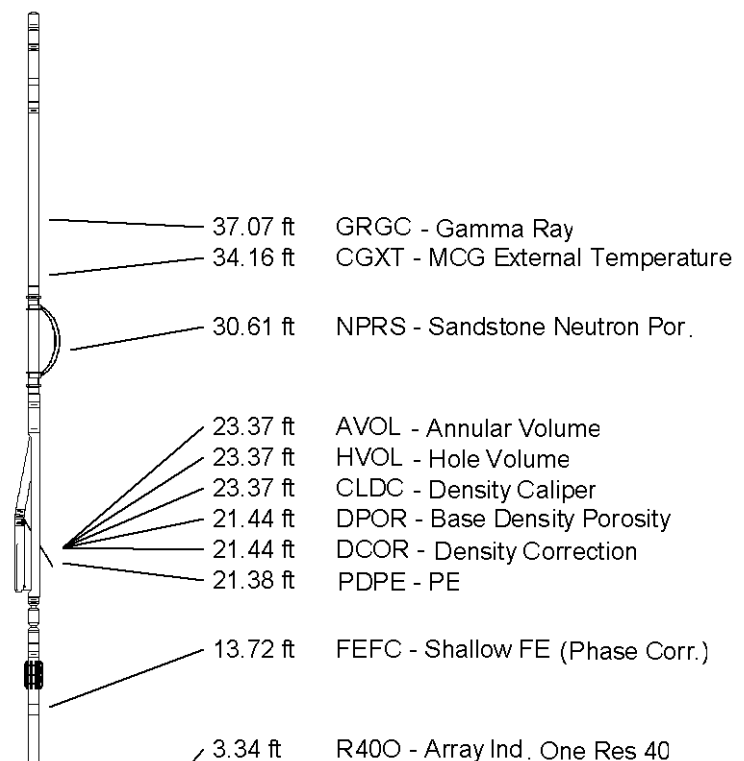
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 16-MAY-2011 03:50
 Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\MAIN.dta
 Recorded on 16-MAY-2011 00:18
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

↑ 5 INCH MAIN LOG ↑

DOWNHOLE EQUIPMENT

C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\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 Neutron
MDN-B.A 306 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in
- Compact Density/Caliper
MPD-C.A 220 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in
- SKJ-D.A Compact Knuckle Joint
SKJ-D.A 115 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in
- Compact Focussed Electric
MFE-B.A 179 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in
- Compact Induction



MAI-B.A 301 LG: 10.81 ft Wl: 48.5 lb OD: 2.24 in

Total Length: 46.67 ft Weight: 368.2 lb



3.34 ft R300 - Array Ind. One Res 30
 3.34 ft RTAO - Array Ind. One Res R1
 3.34 ft R850 - Array Ind. One Res 85
 3.34 ft R600 - Array Ind. One Res 60
 0.23 ft SPCG - Spontaneous Potential
 Tool Zero (0.13ft from bottom)
 -0.13 ft SMTU - DST Uphole Tension
 All measurements relative to tool zero.

COMPANY BILL BARRETT CORPORATION
 WELL CB-TG LAND 21A-20-692
 FIELD MAMM CREEK
 PROVINCE/COUNTY GARFIELD
 COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	5553.00	feet	First Reading	7617.00	
Elevation Drill Floor	5552.00	feet	Depth Driller	7641.00	feet
Elevation Ground Level	5530.00	feet	Depth Logger	7640.00	feet



Weatherford[®]

HOLE VOLUME
CALIPER
LOG

