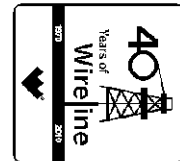




Weatherford[®]

**HOLE VOLUME
CALIPER LOG**

COMPANY BILL BARRETT CORPORATION
WELL GGU FEDERAL 41D-29-691
FIELD GIBSON GULCH
PROVINCE/COUNTY GARFIELD
COUNTRY/STATE U.S.A. / COLORADO
LOCATION SHL: 1224' FNL & 1308' FEL
BHL: 165' FNL & 664' FEL



SEC	TWP	RGE	Other Services
29	6S	91W	MPD/MDN MA/MFE
API Number		05-045-19795	
Permit Number			
Permanent Datum G.L., Elevation 6104 feet			
Log Measured From K.B. @ 23 FEET above Permanent Datum			
Drilling Measured From K.B.			
Date	6-FEB-2011		

Elevations:	feet
KB	6127.00
DF	6126.00
GL	6104.00

Run Number	ONE
Depth Driller	7575.00 feet
Depth Logger	7576.00 feet
First Reading	7553.00
Last Reading	756.00
Casing Driller	738.00 feet
Casing Logger	756.00 feet
Bit Size	7.880 inches
Hole Fluid Type	LSND
Density / Viscosity	10.50 lb/USg 59.00 CP
PH / Fluid Loss	8.40 6.30 ml/30Min
Sample Source	FLOW LINE
Rm @ Measured Temp	3.0 @ 90.0 ohm-m
Rmf @ Measured Temp	2.40 @ 90.0 ohm-m
Rmc @ Measured Temp	3.60 @ 90.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	1.45 @ 185.0 ohm-m
Time Since Circulation	5 HOURS
Max Recorded Temp	185.00 deg F
Equipment Name	COMPACT
Equipment / Base	13173 GD JCT
Recorded By	J.GARCIA
Witnessed By	J.BOYD

BOREHOLE RECORD

Last Edited: 06-FEB-2011 14:15

Bit Size inches	Depth From feet	Depth To feet
8.750	738.00	5013.00
7.880	5013.00	7575.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	738.00	36.00

REMARKS

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

HARDWARE: MPD: 8 INCH PROFILE PLATE USED.
ONE 0.5 INCH STANDOFFS USED ON INDUCTION.
ONE 0.5 INCH STANDOFFS USED ON MFE.
DUAL BOWSPRING USED ON NEUTRON.

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.

DENSITY POROSITY AND NEUTRON POROSITY READINGS MAY BE AFFECTED DUE TO 8 TO 10% LCM USED IN THE MUD SYSTEM.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.94" (9 5/8", 36 LB/FT CASING)

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2900 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2140 CU.FT.

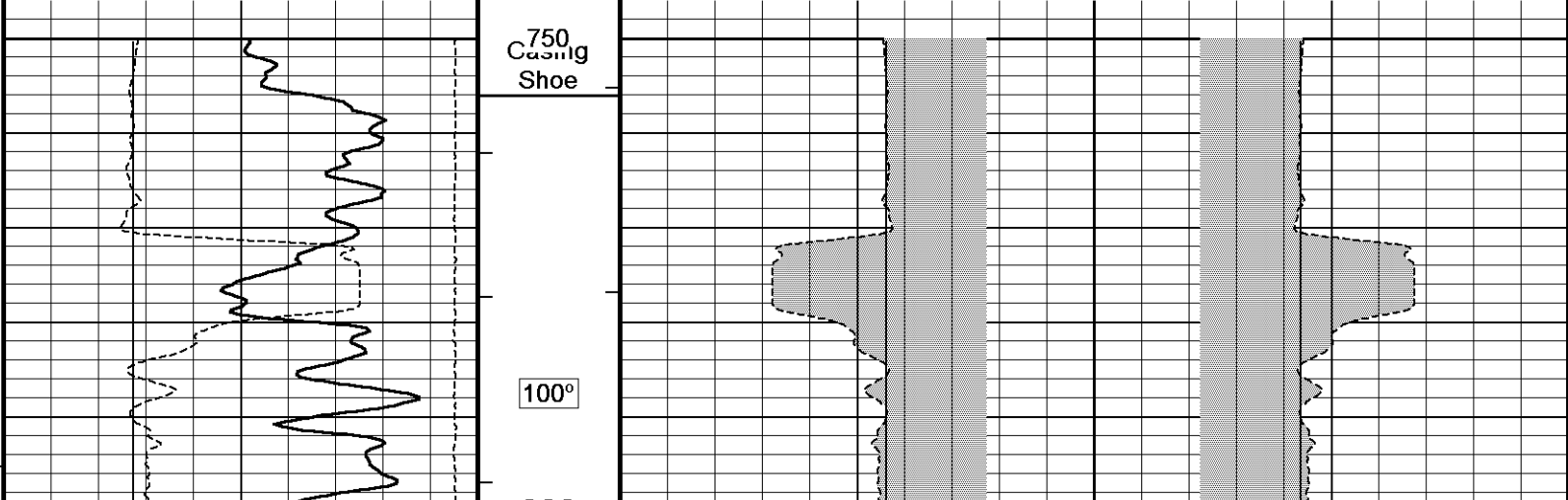
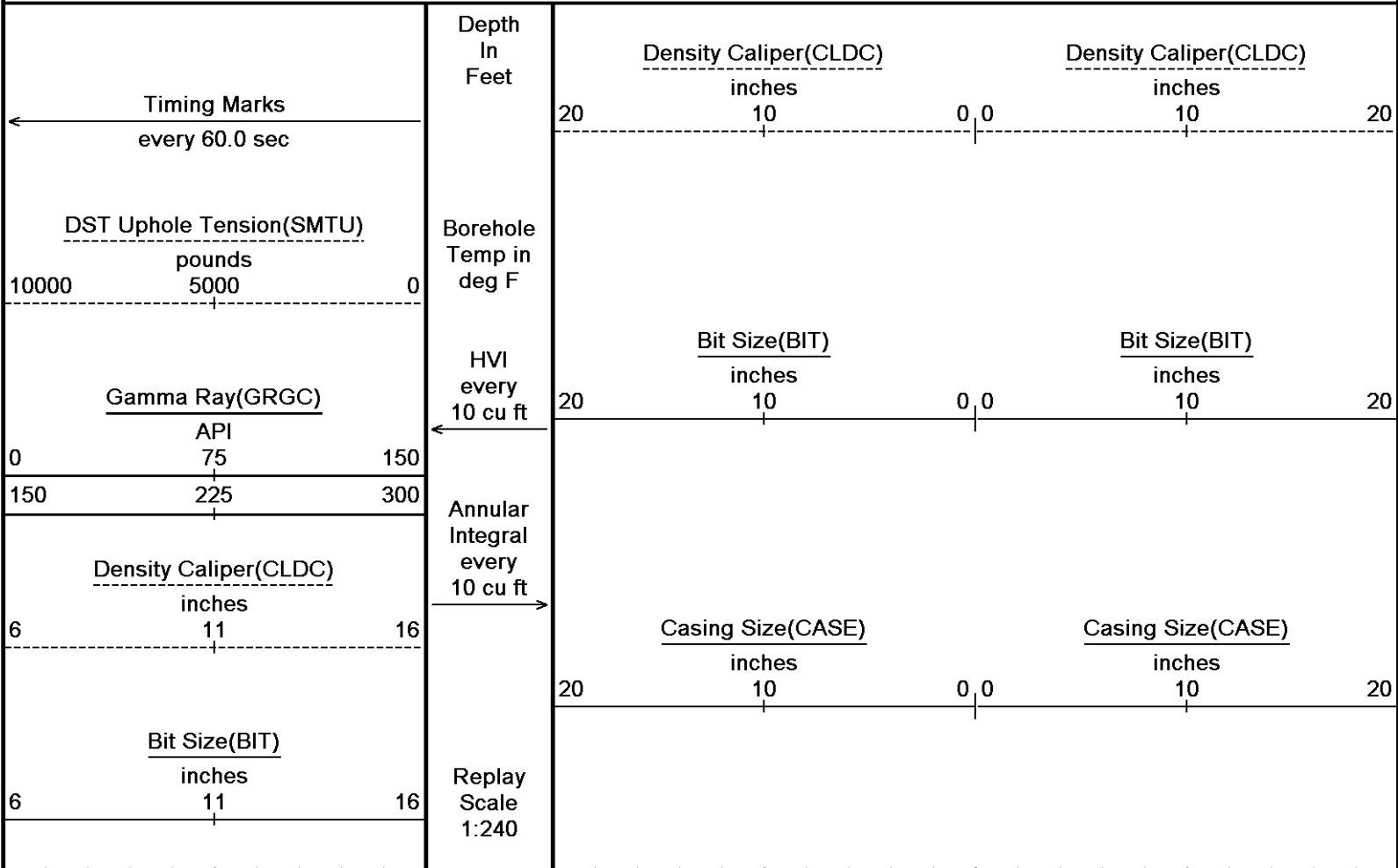
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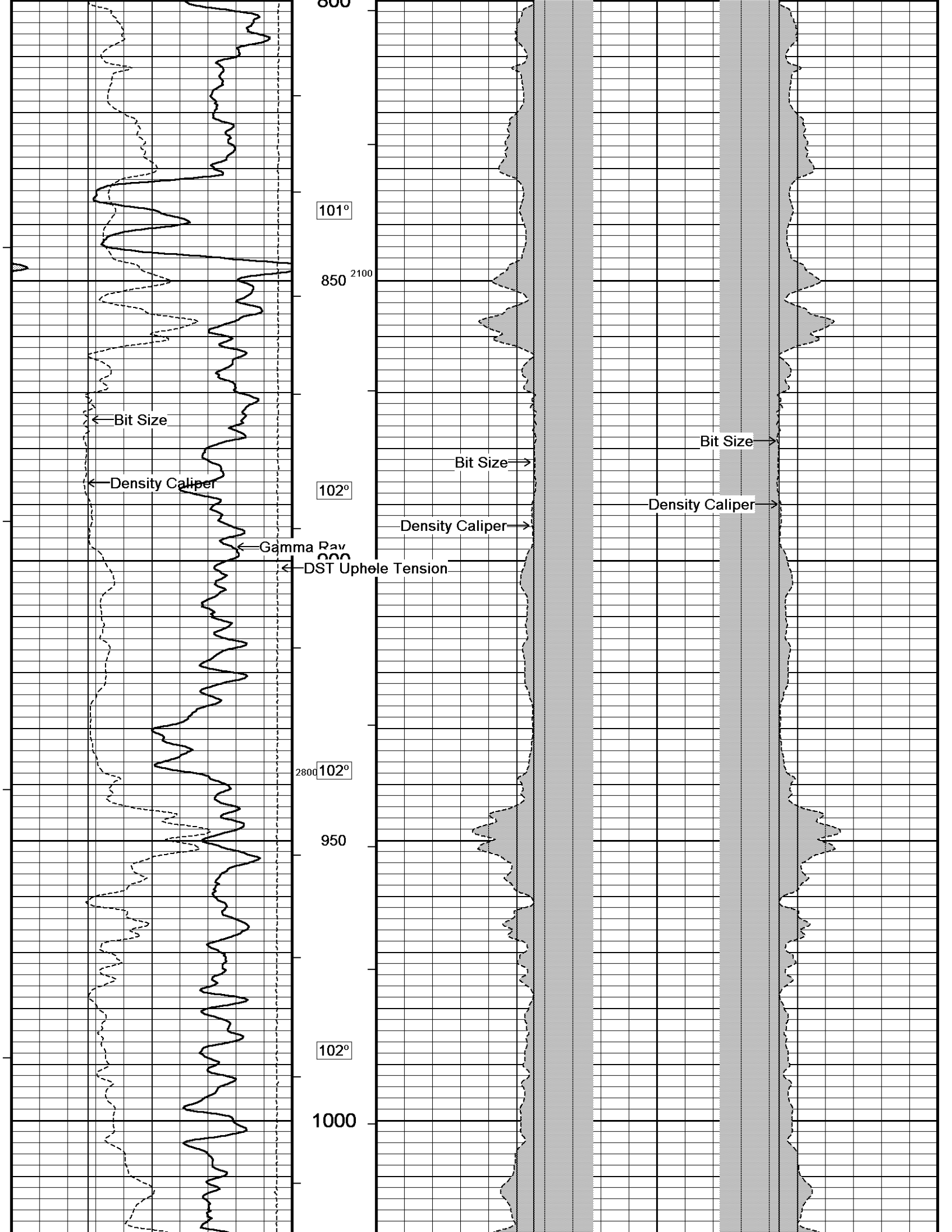
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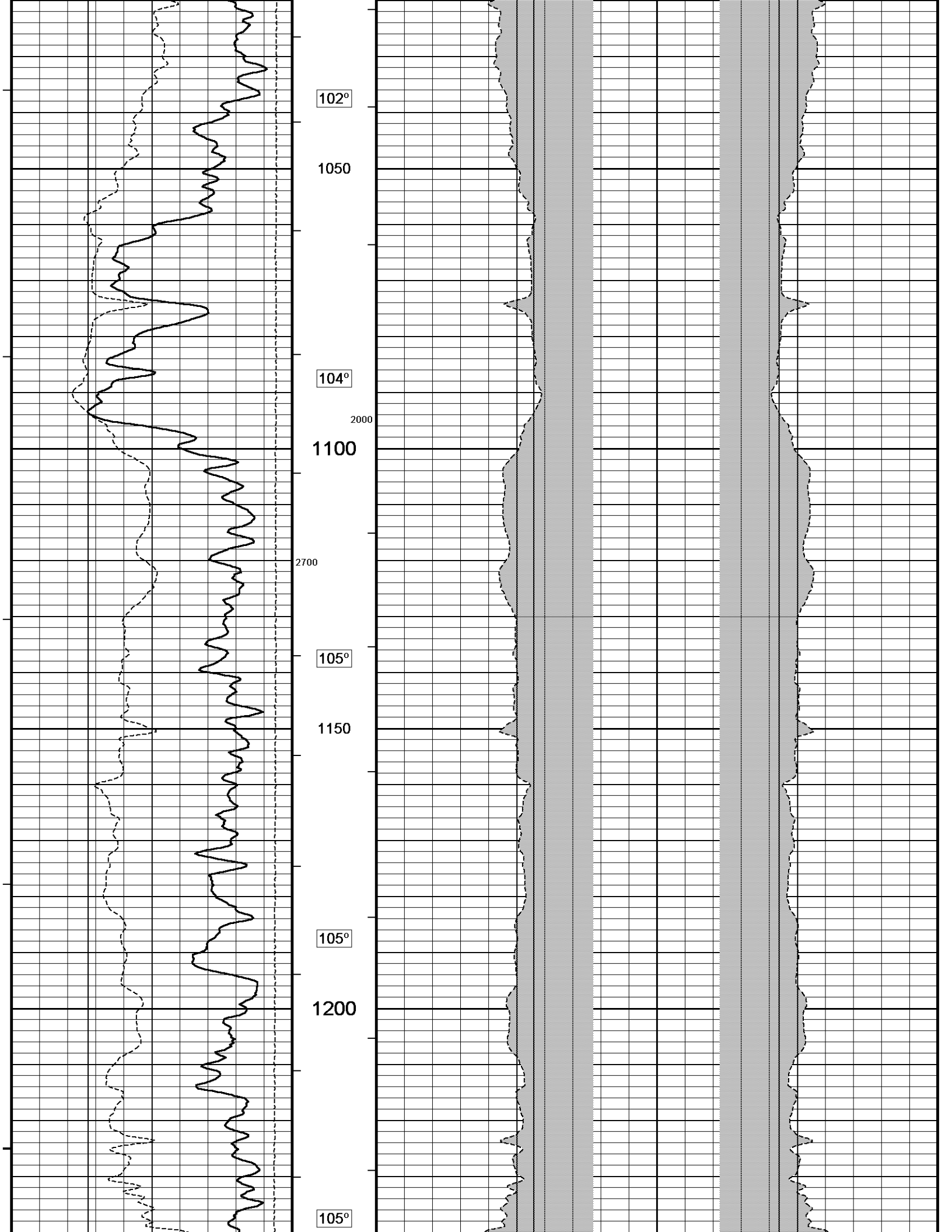
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

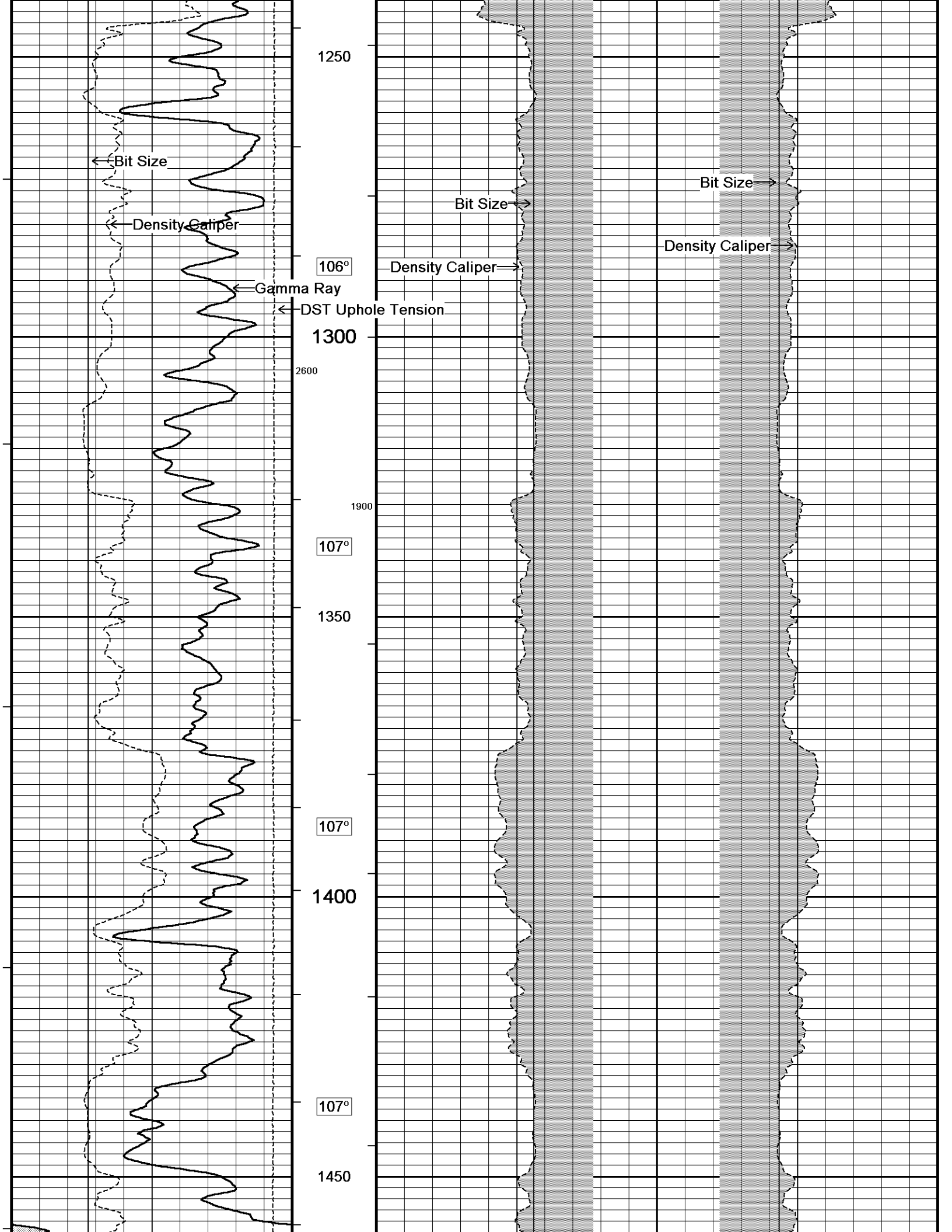
5 INCH MAIN LOG

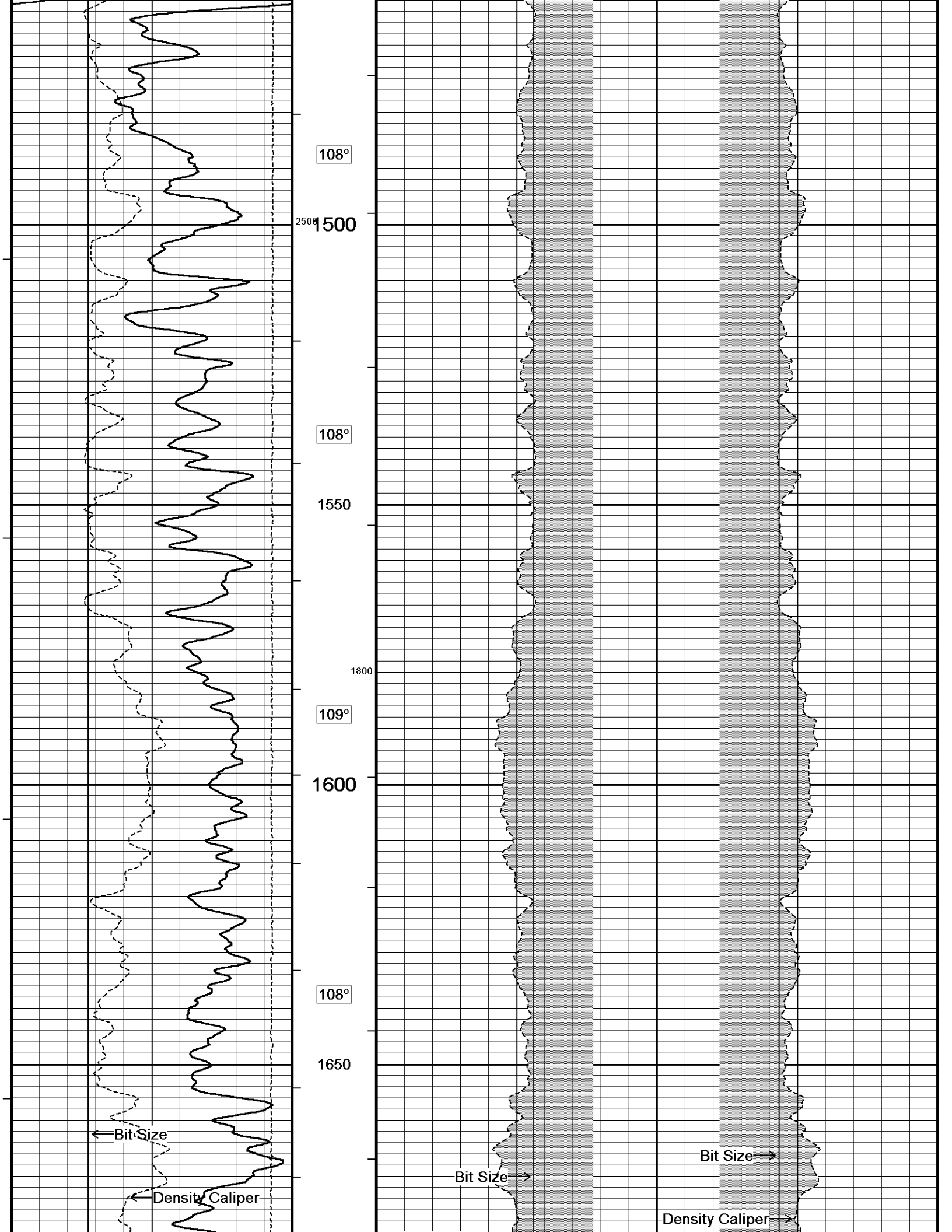
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 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

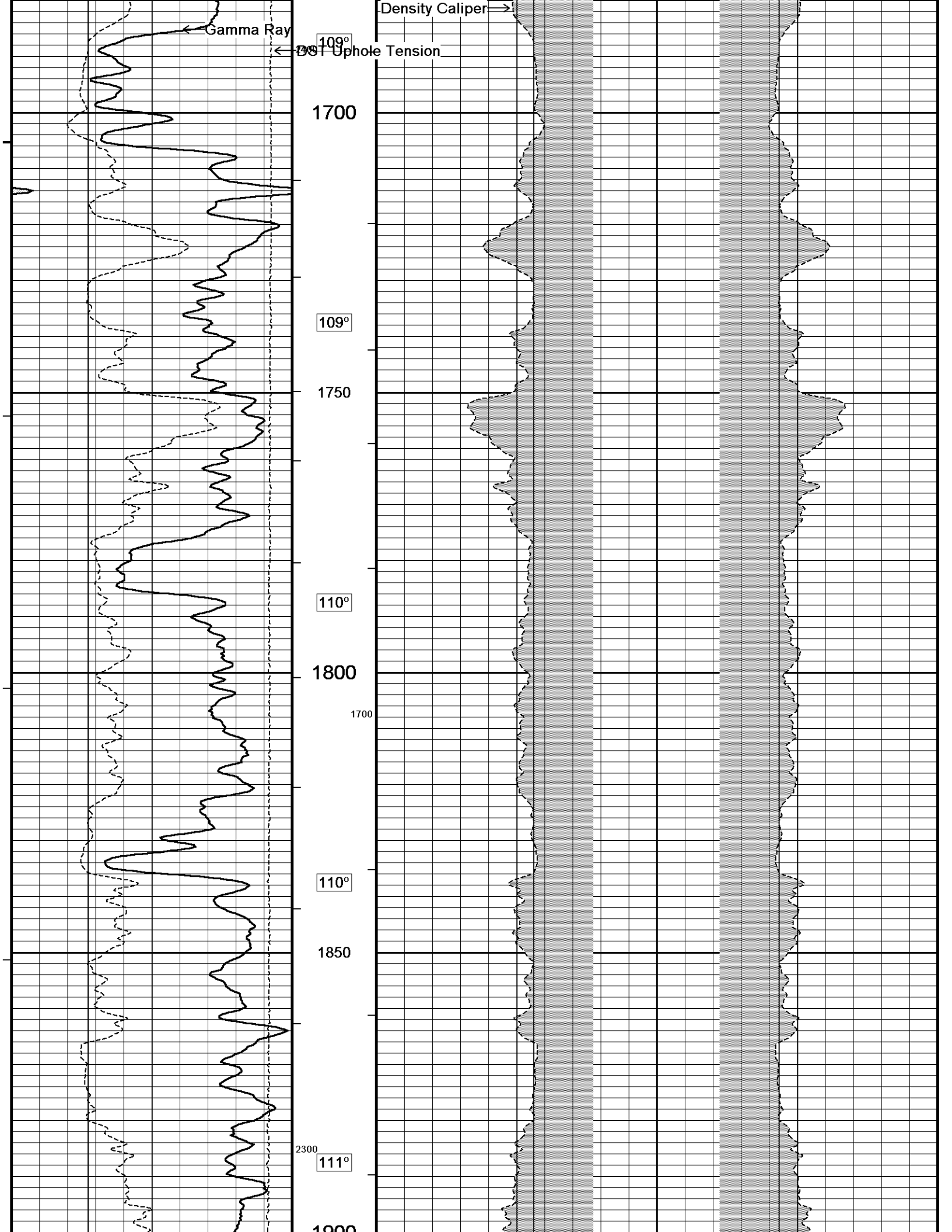


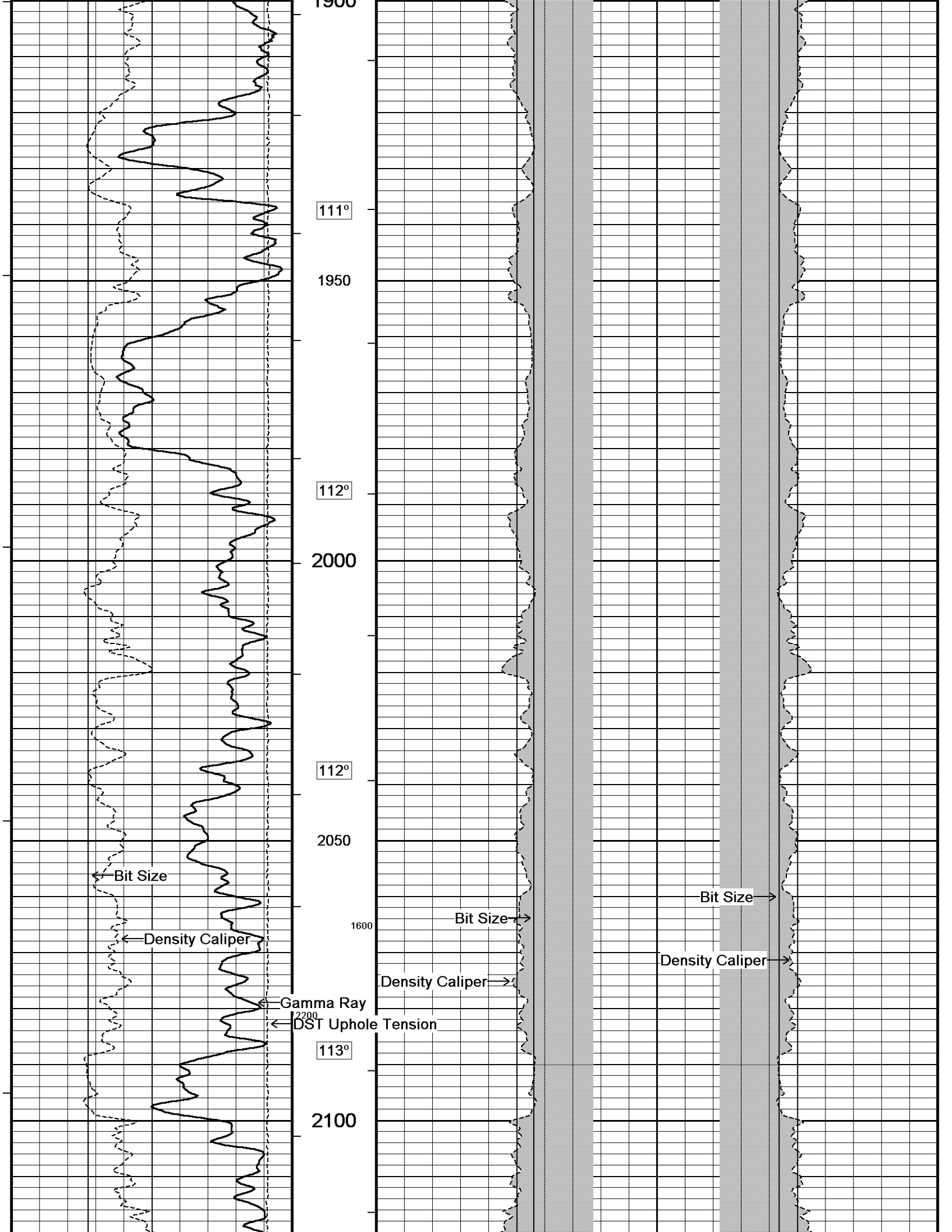


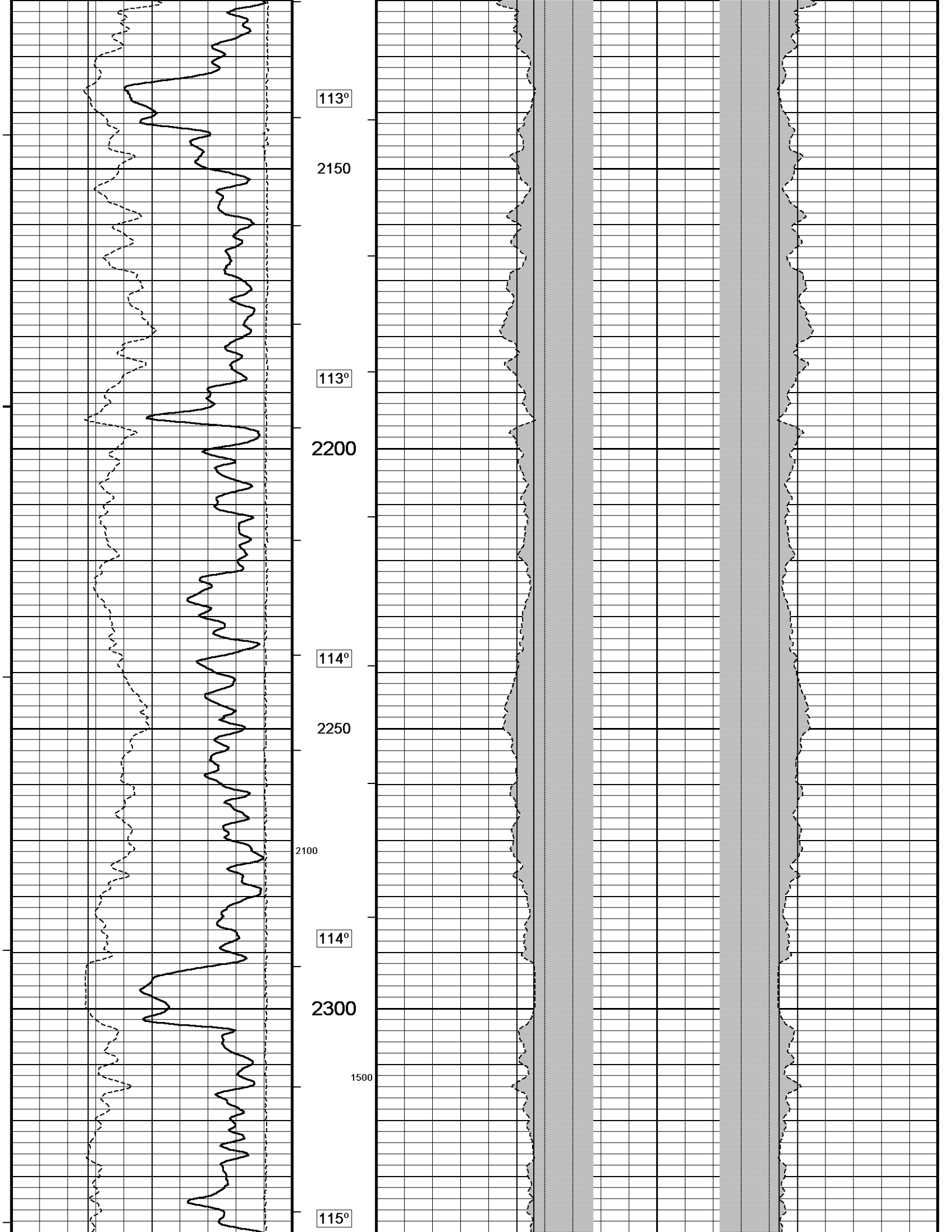


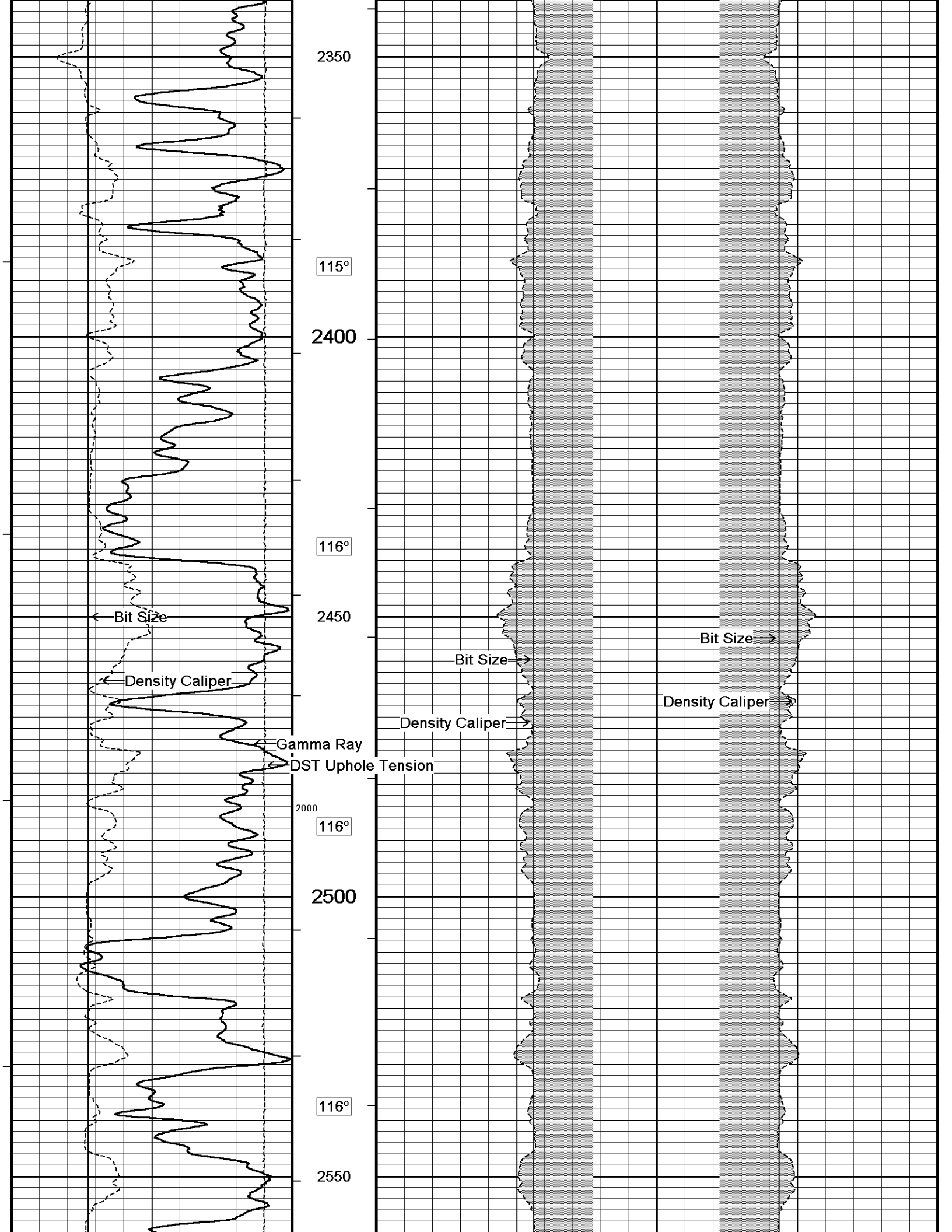


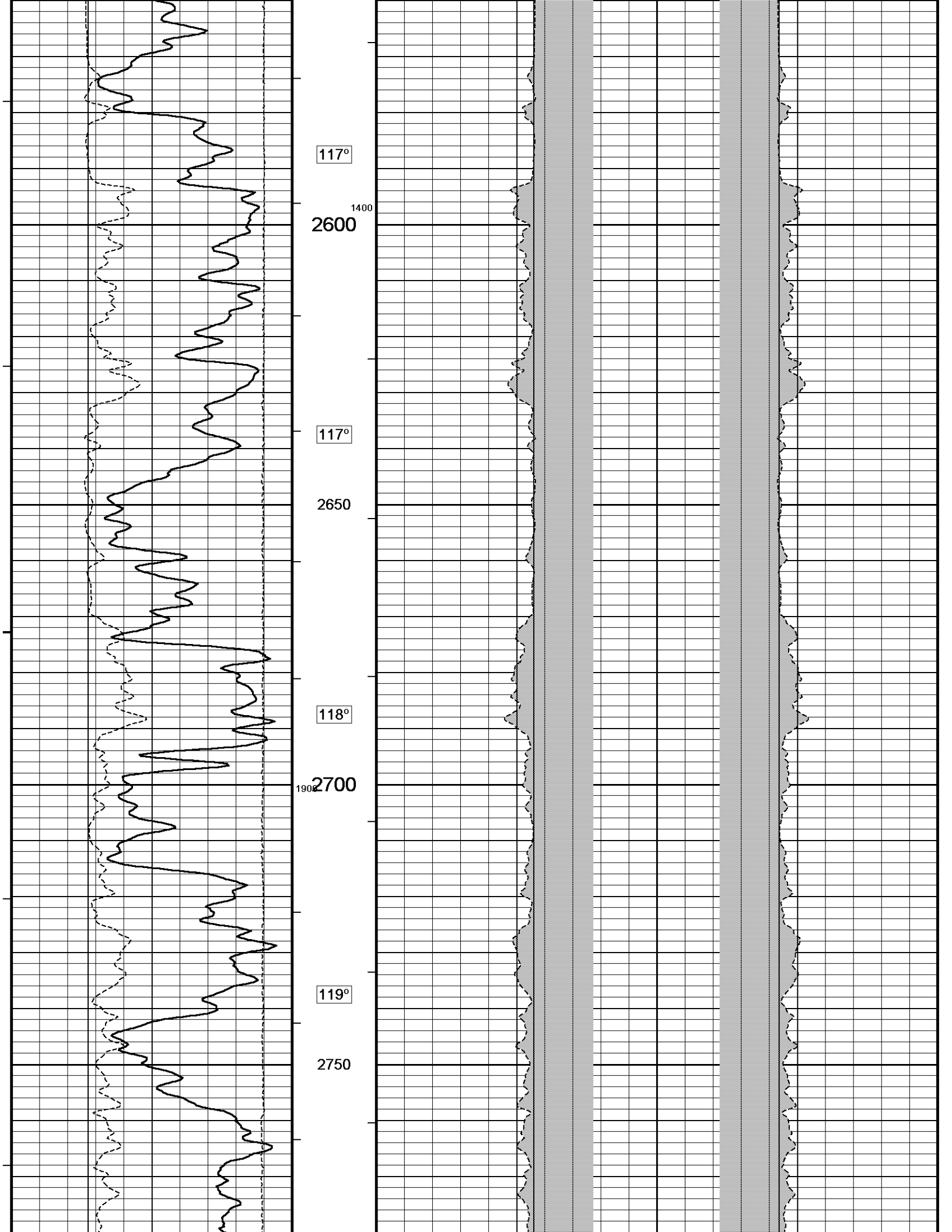


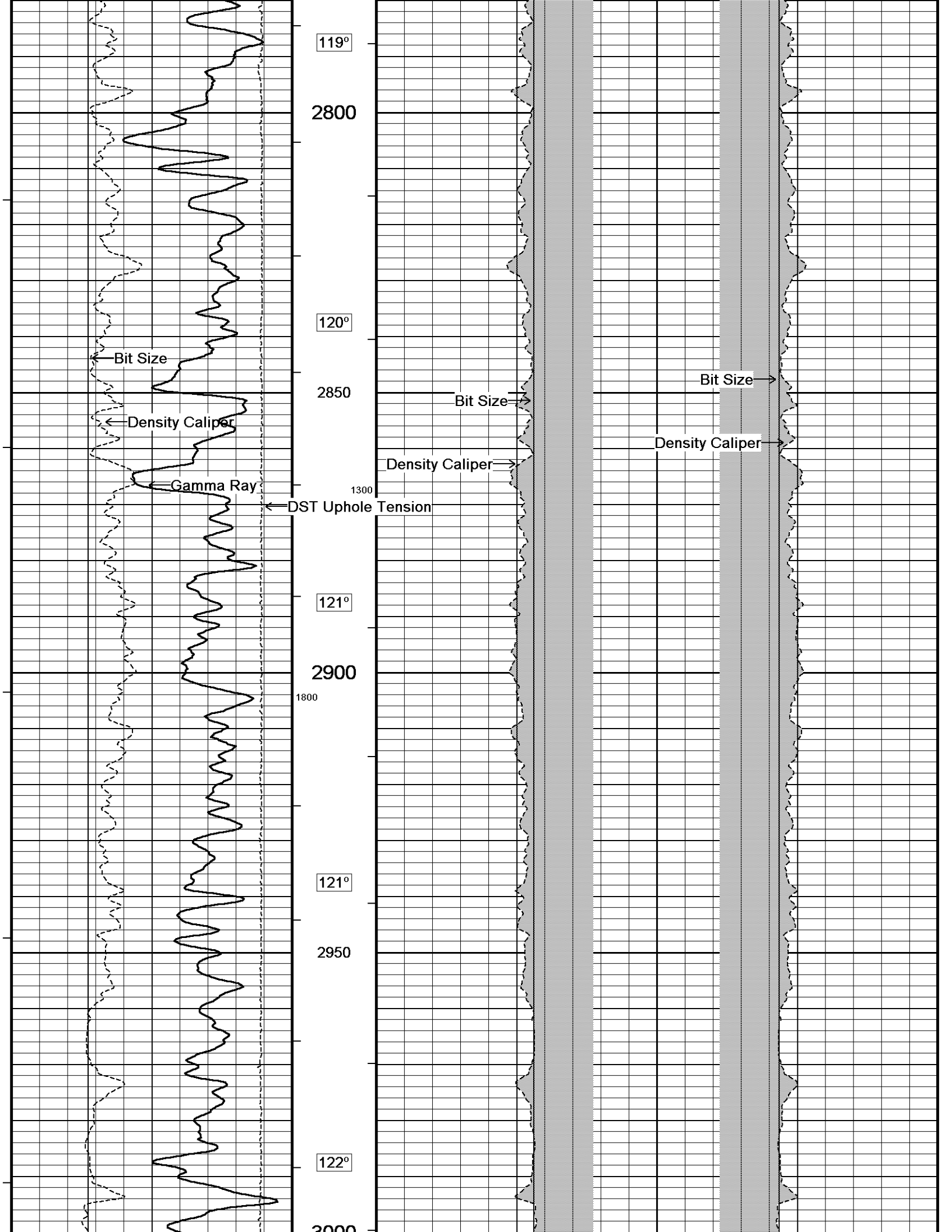


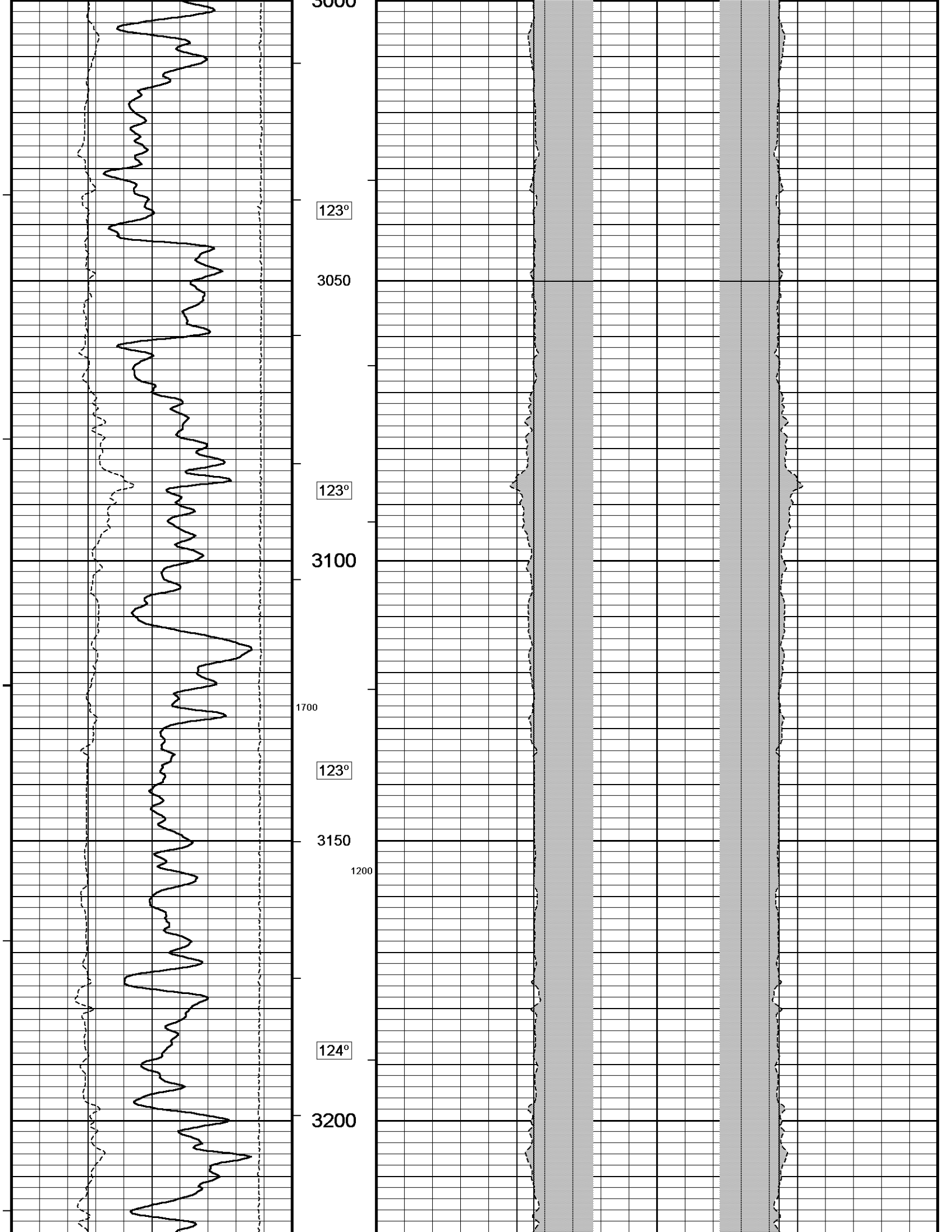


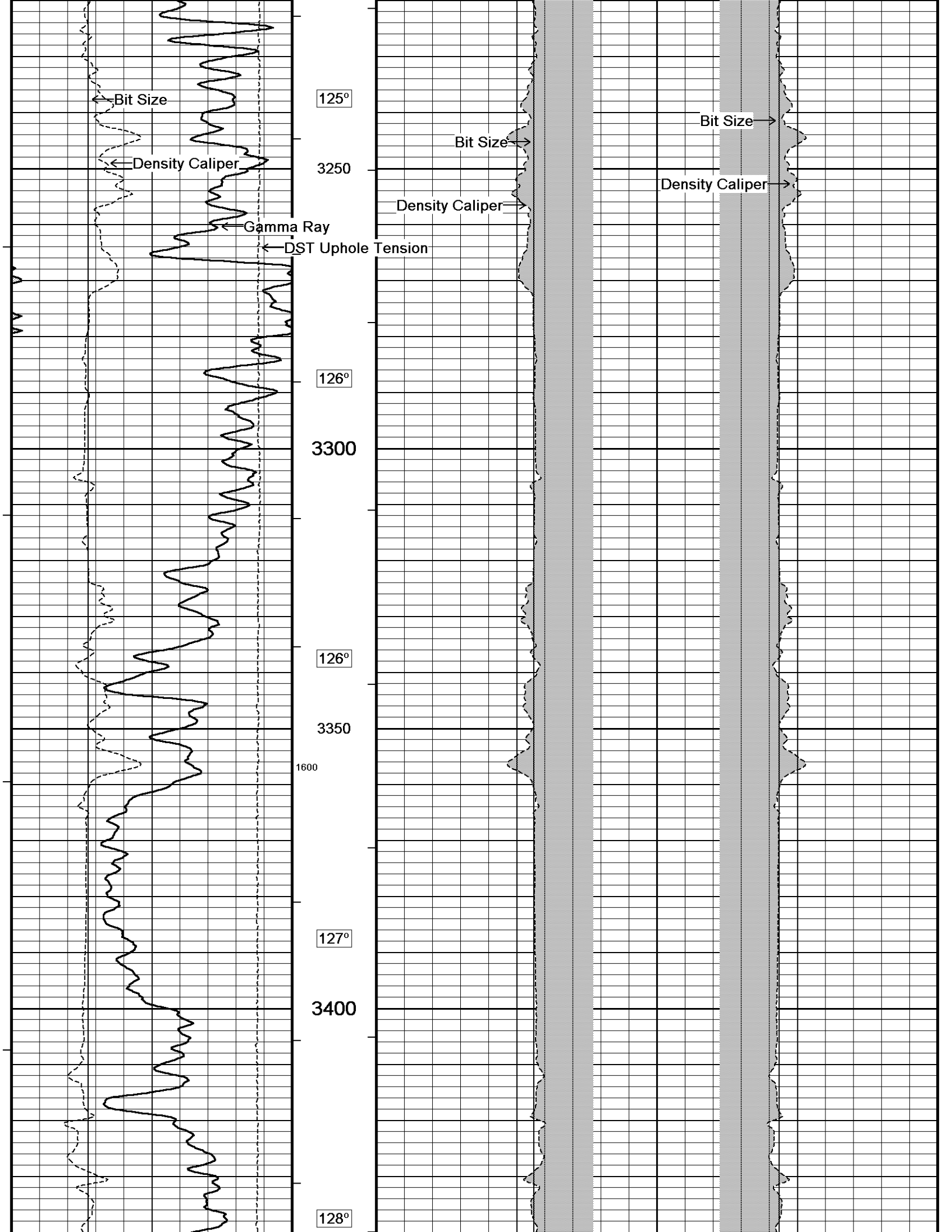


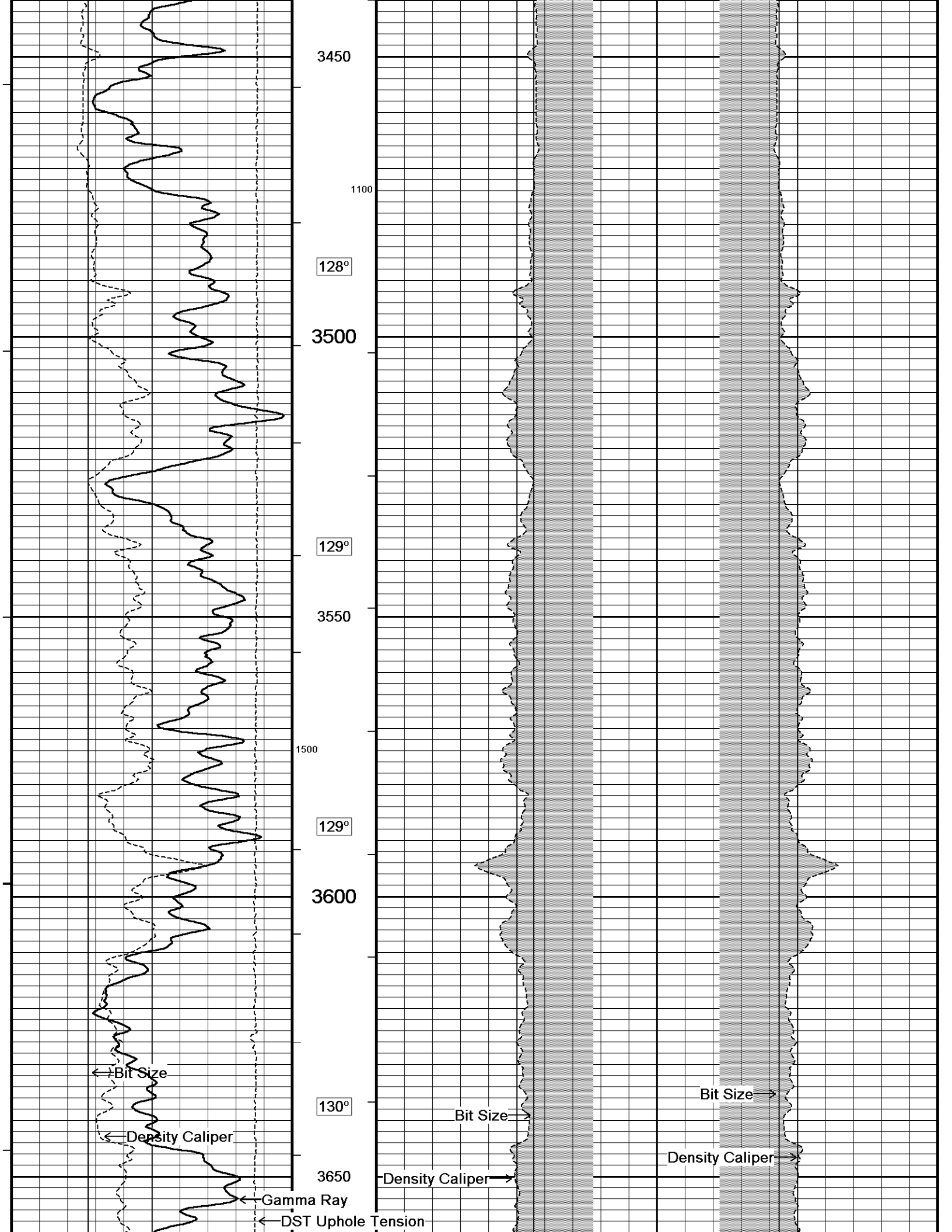


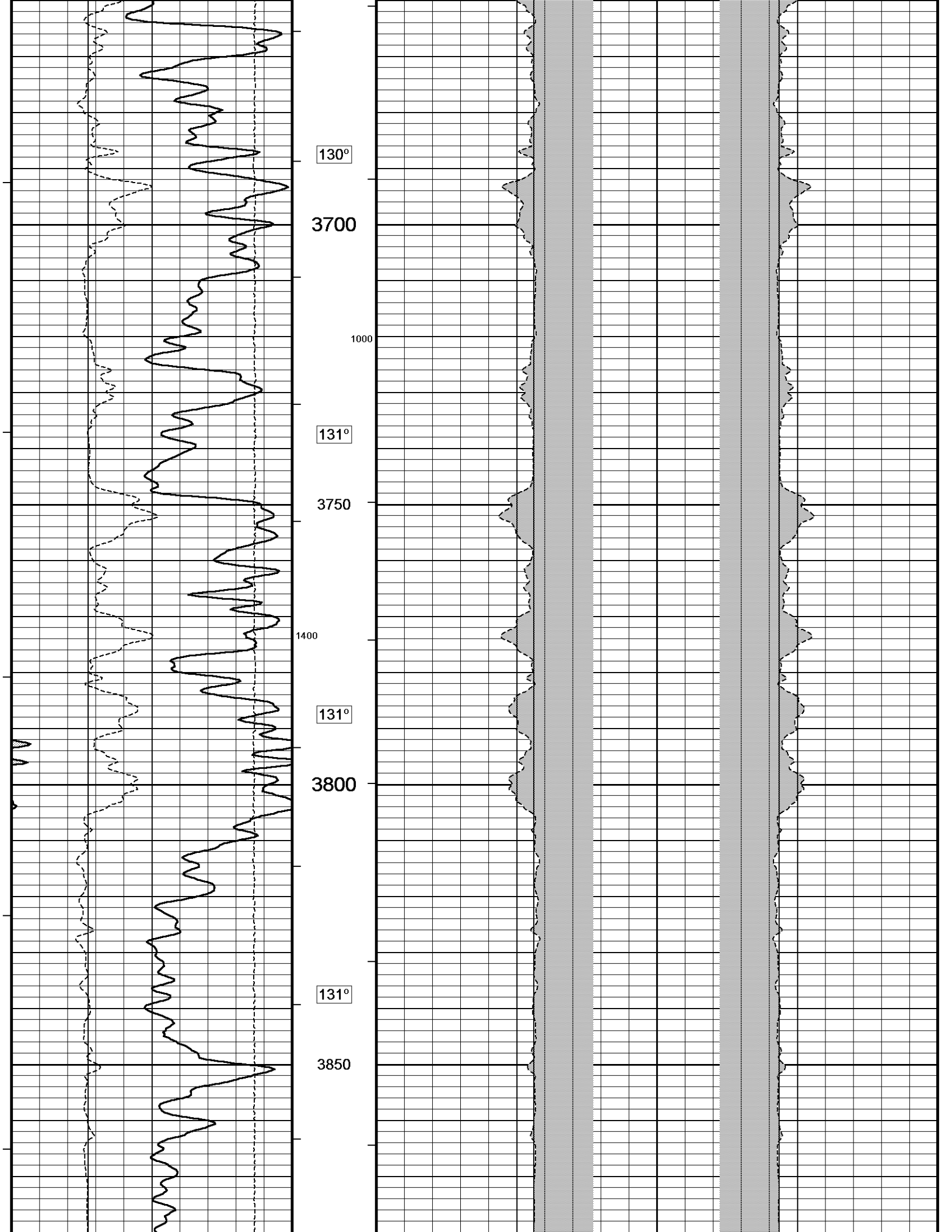


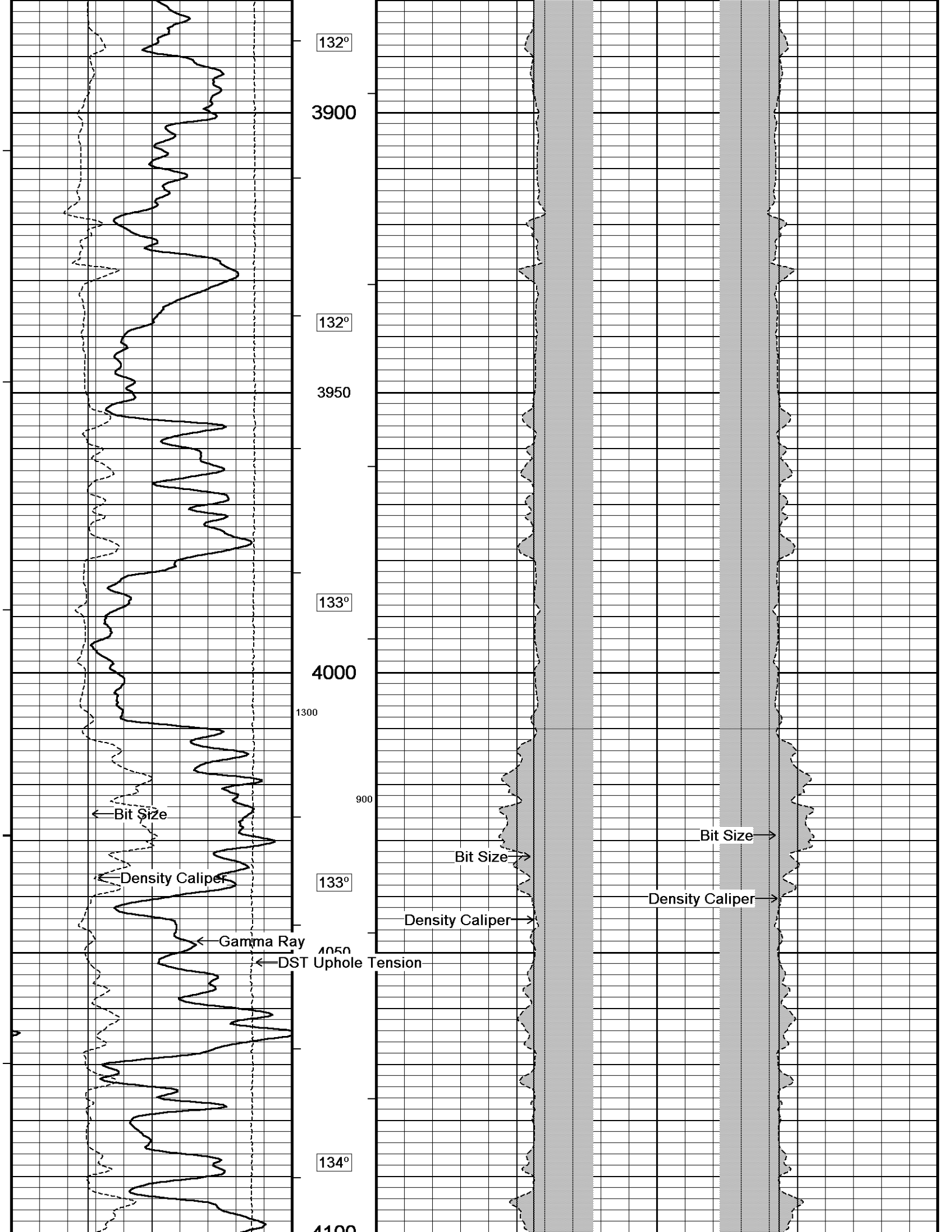


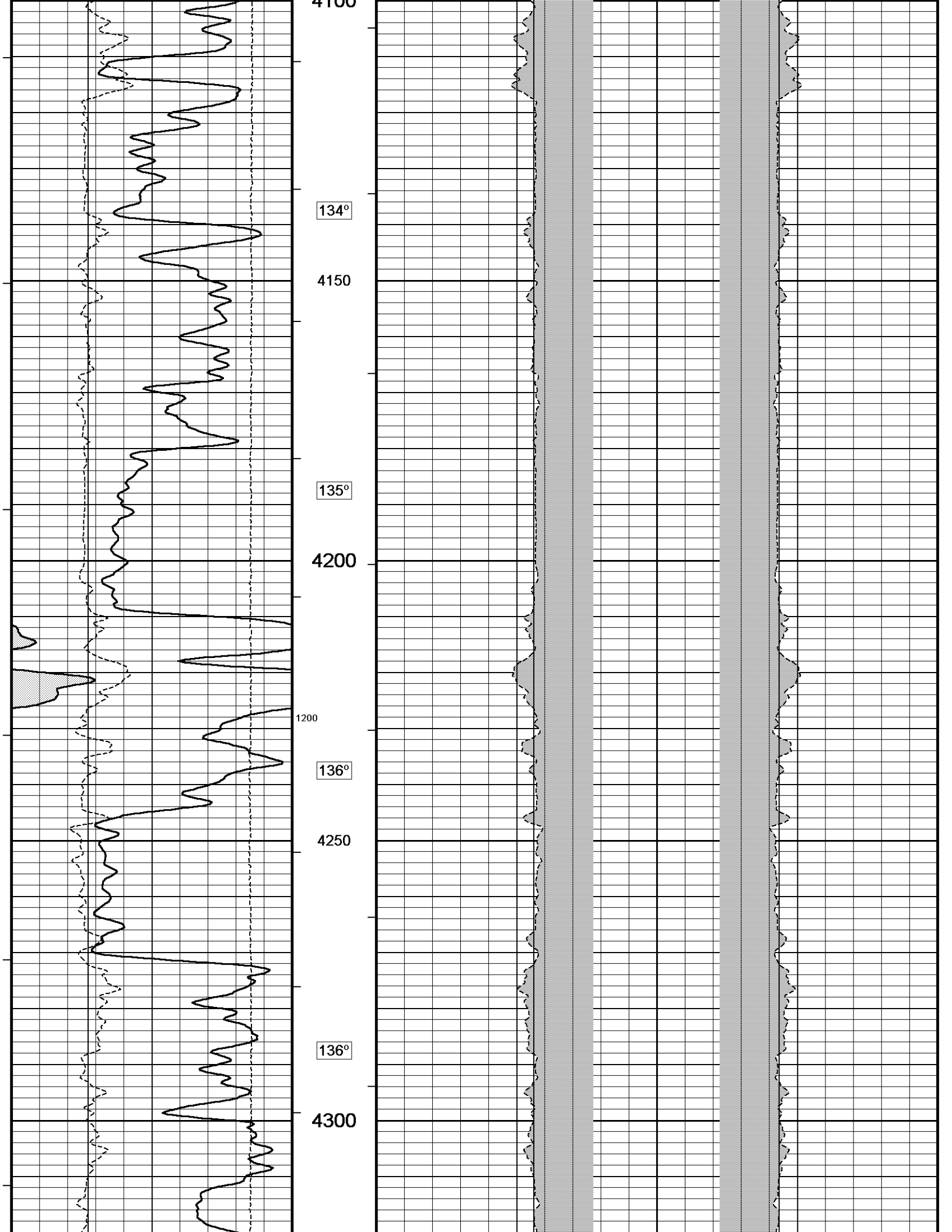


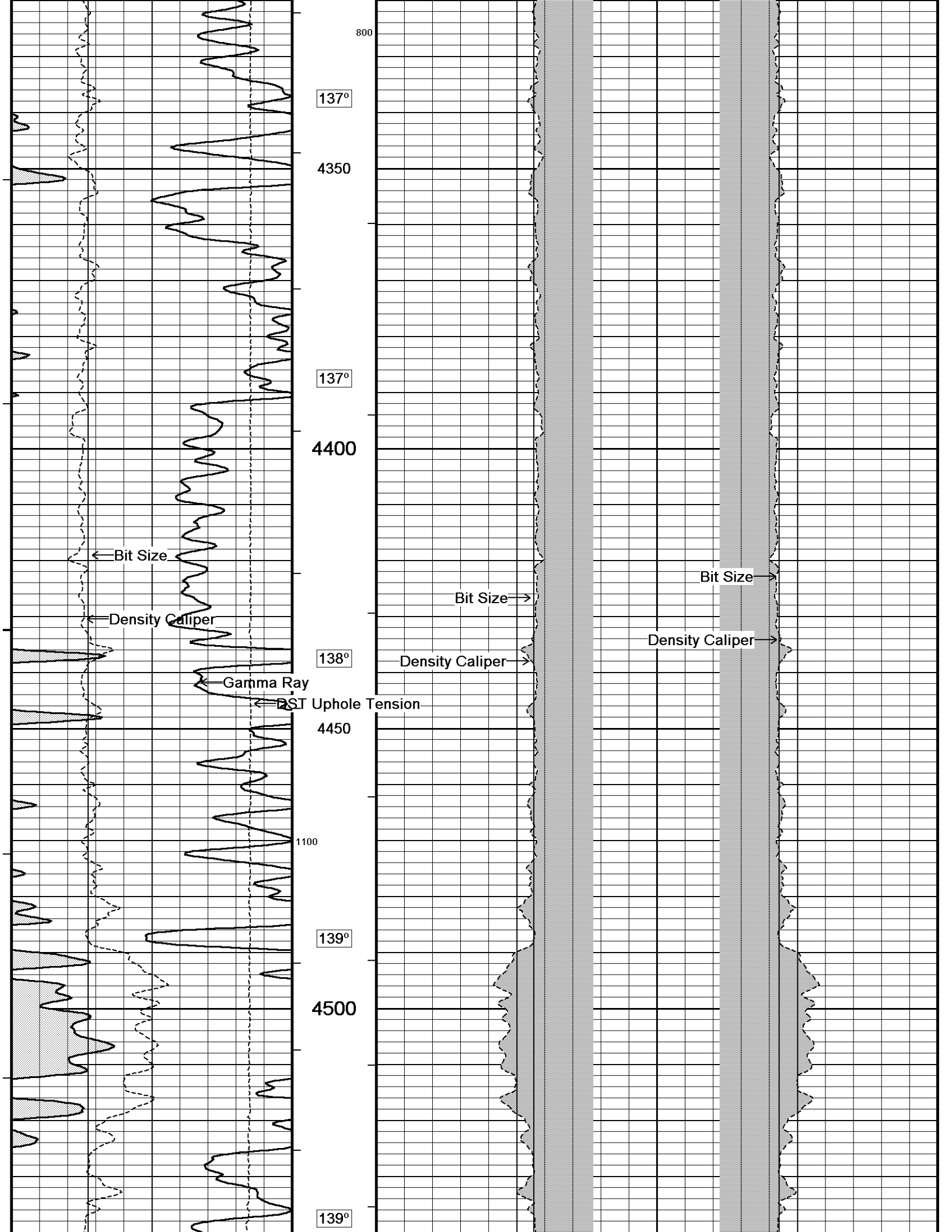


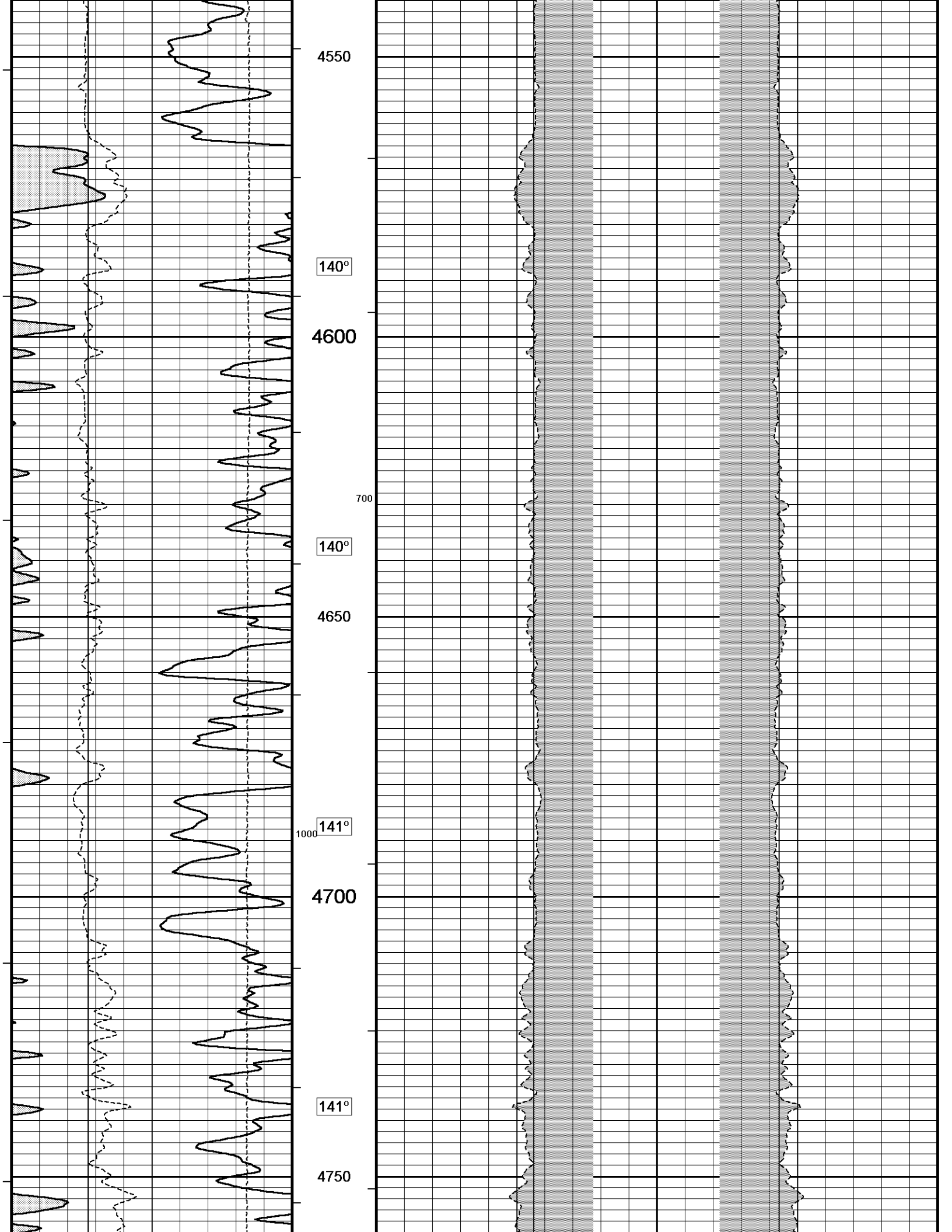


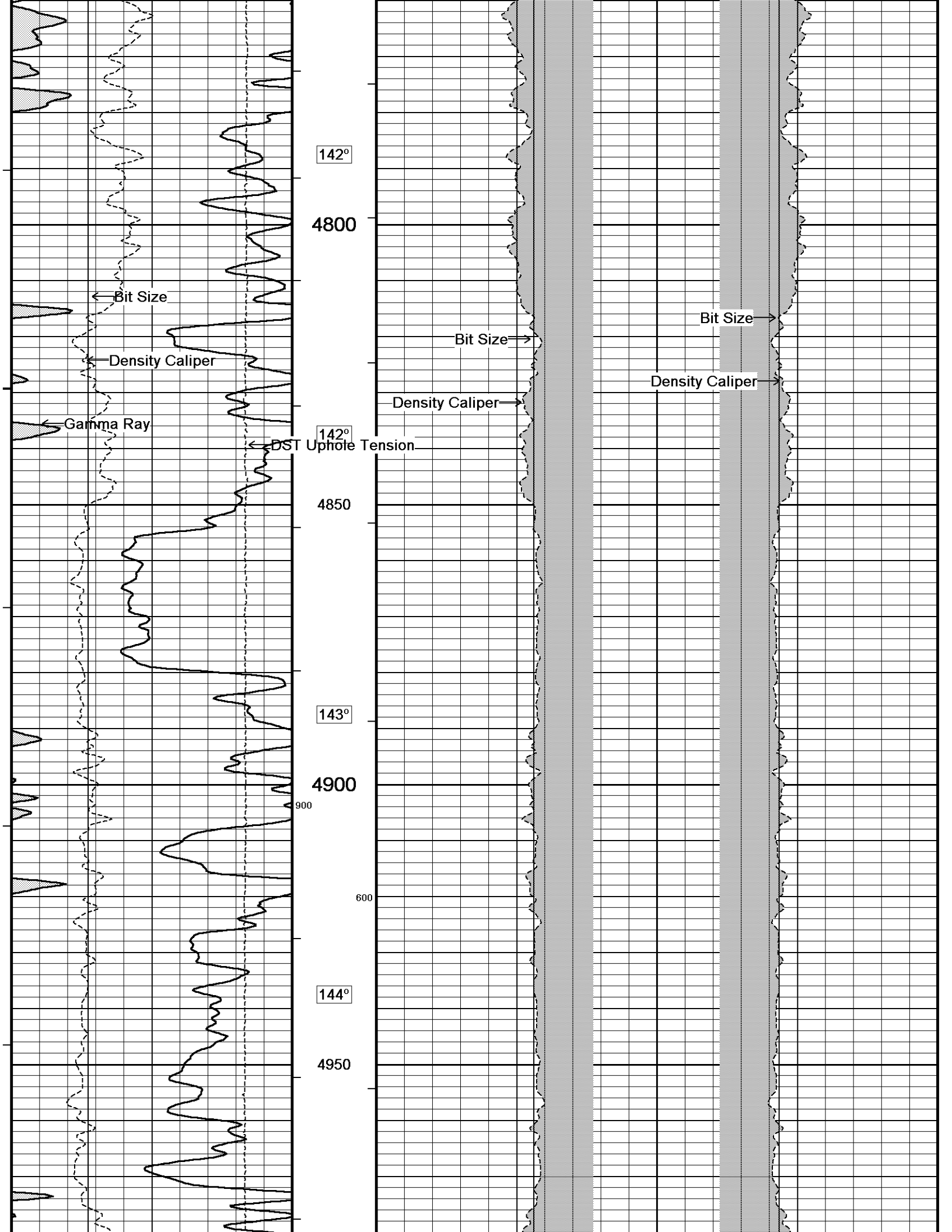


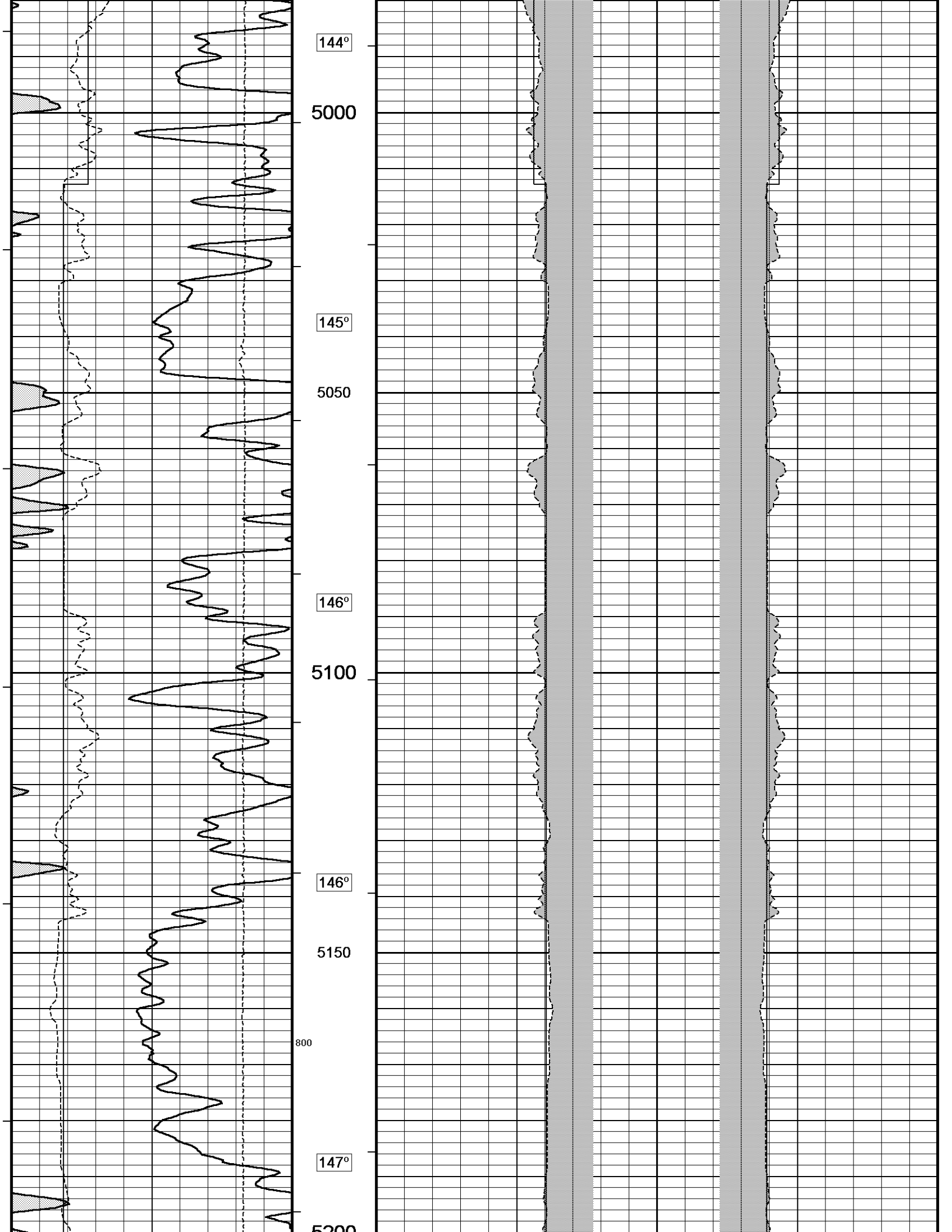


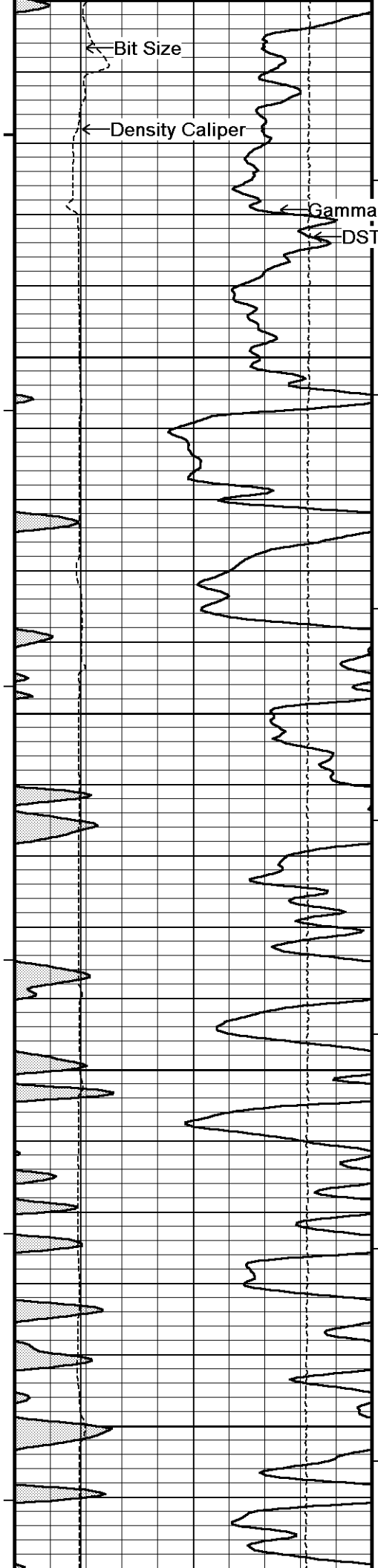












5200

← Bit Size

← Density Caliper

Gamma Ray

DST Uphole Tension

148°

5250

148°

5300

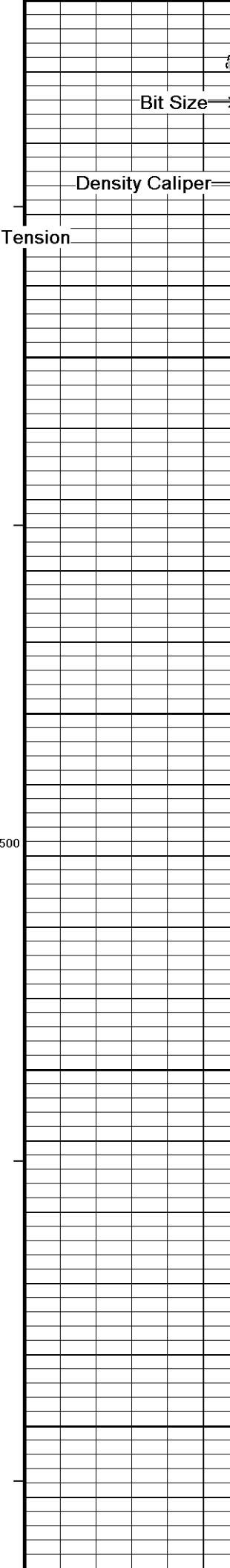
500

149°

5350

150°

5400



Bit Size →

Density Caliper →

←

148°

5250

148°

5300

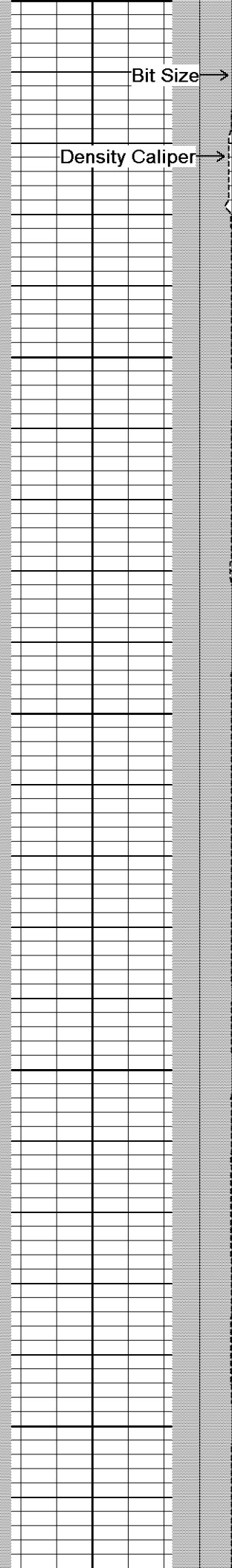
500

149°

5350

150°

5400



Bit Size →

Density Caliper →

148°

5250

148°

5300

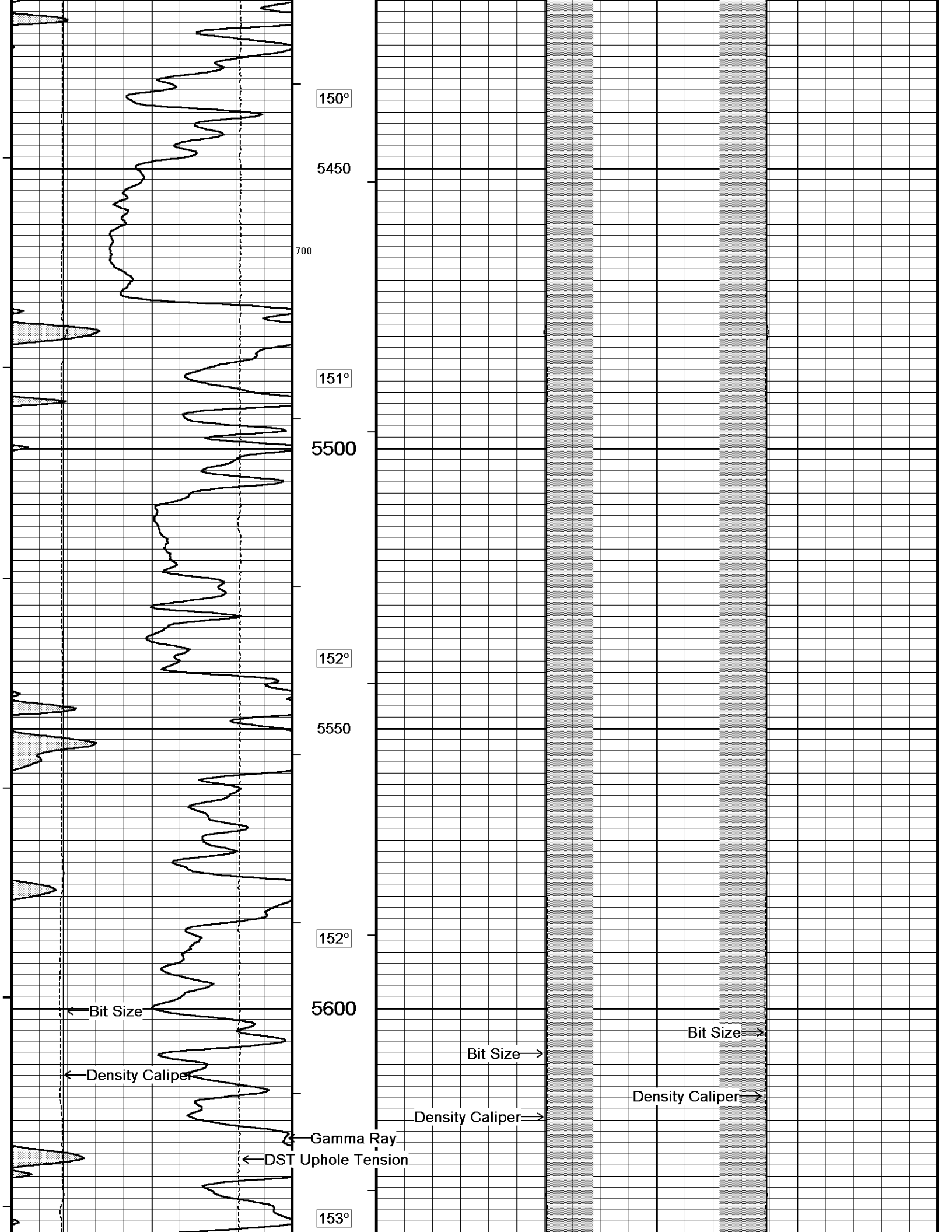
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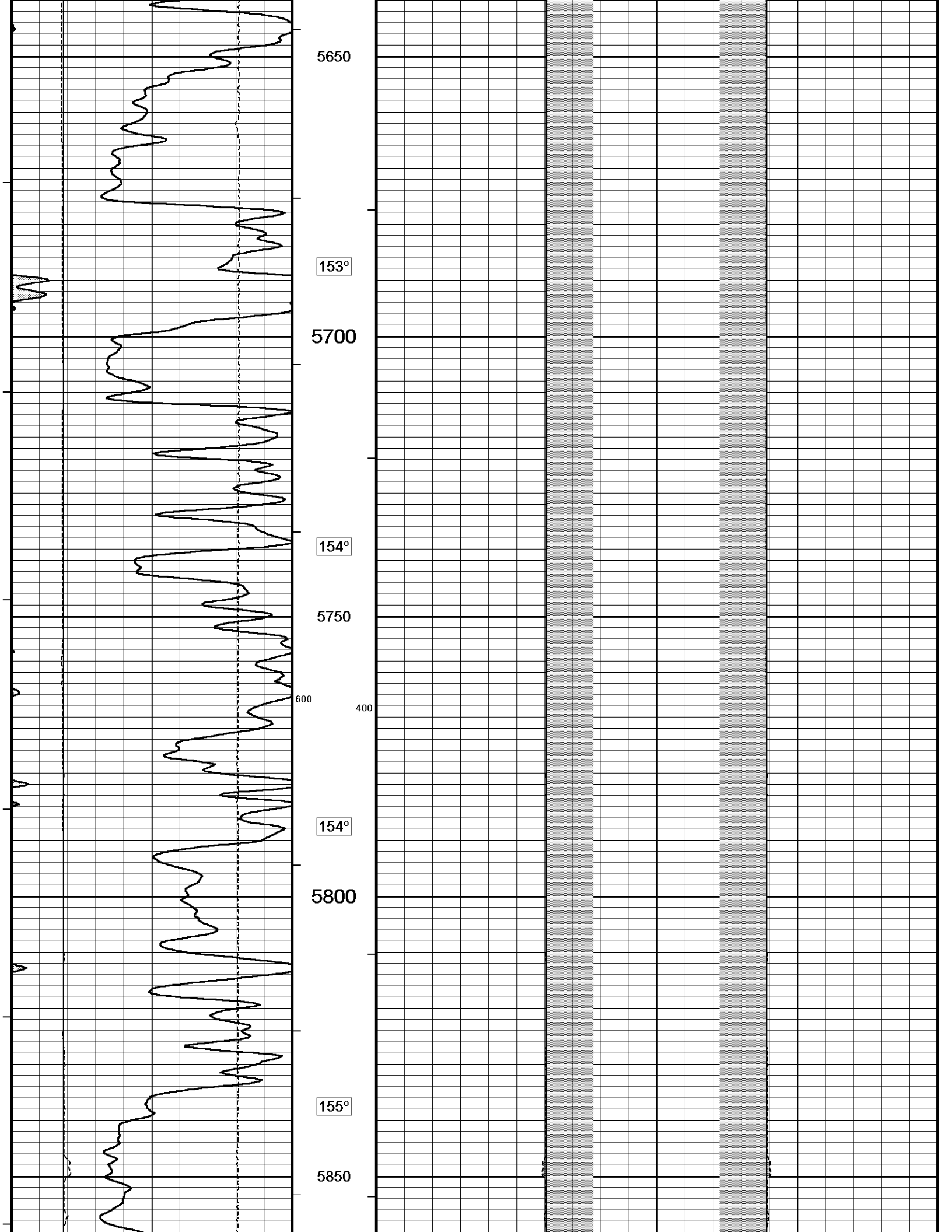
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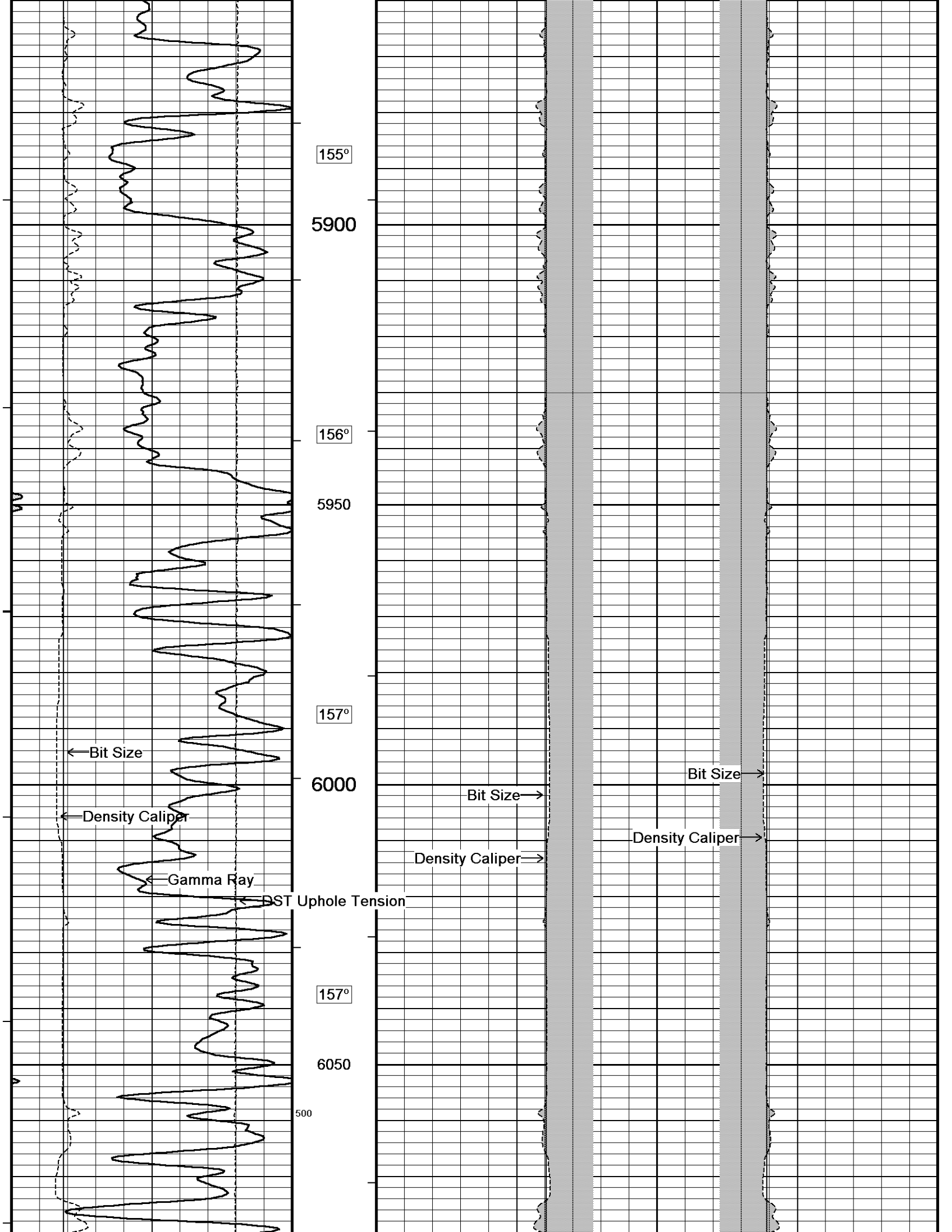
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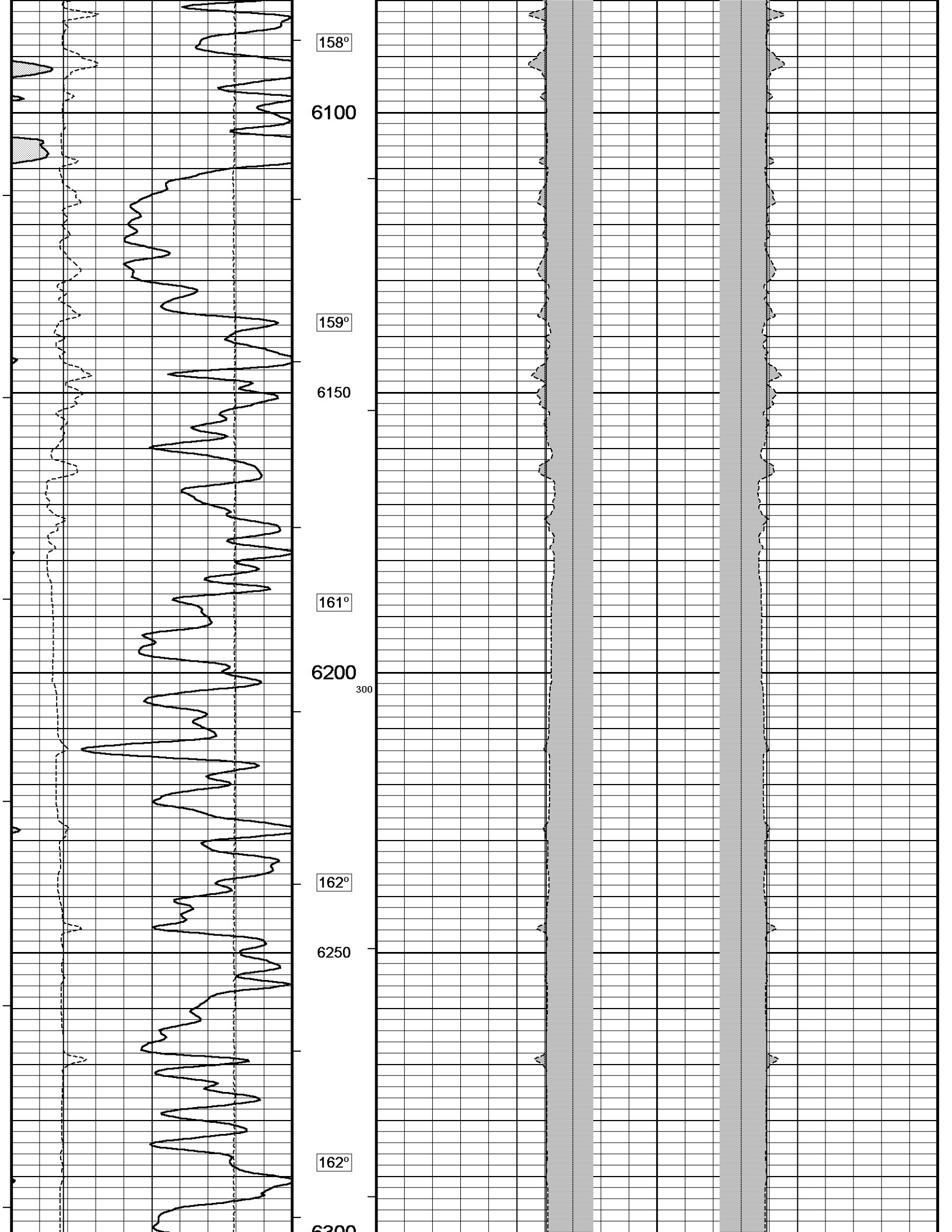
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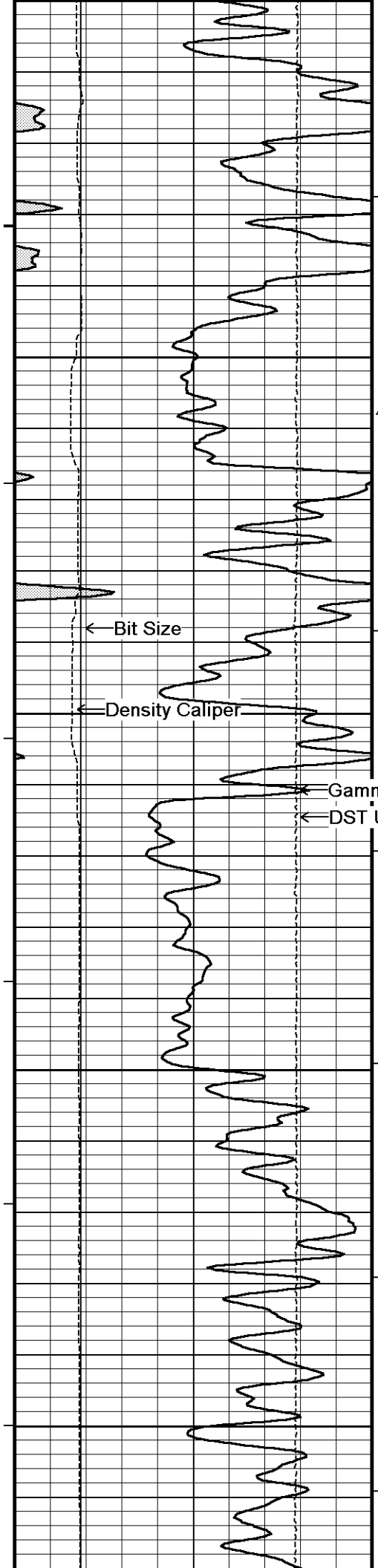
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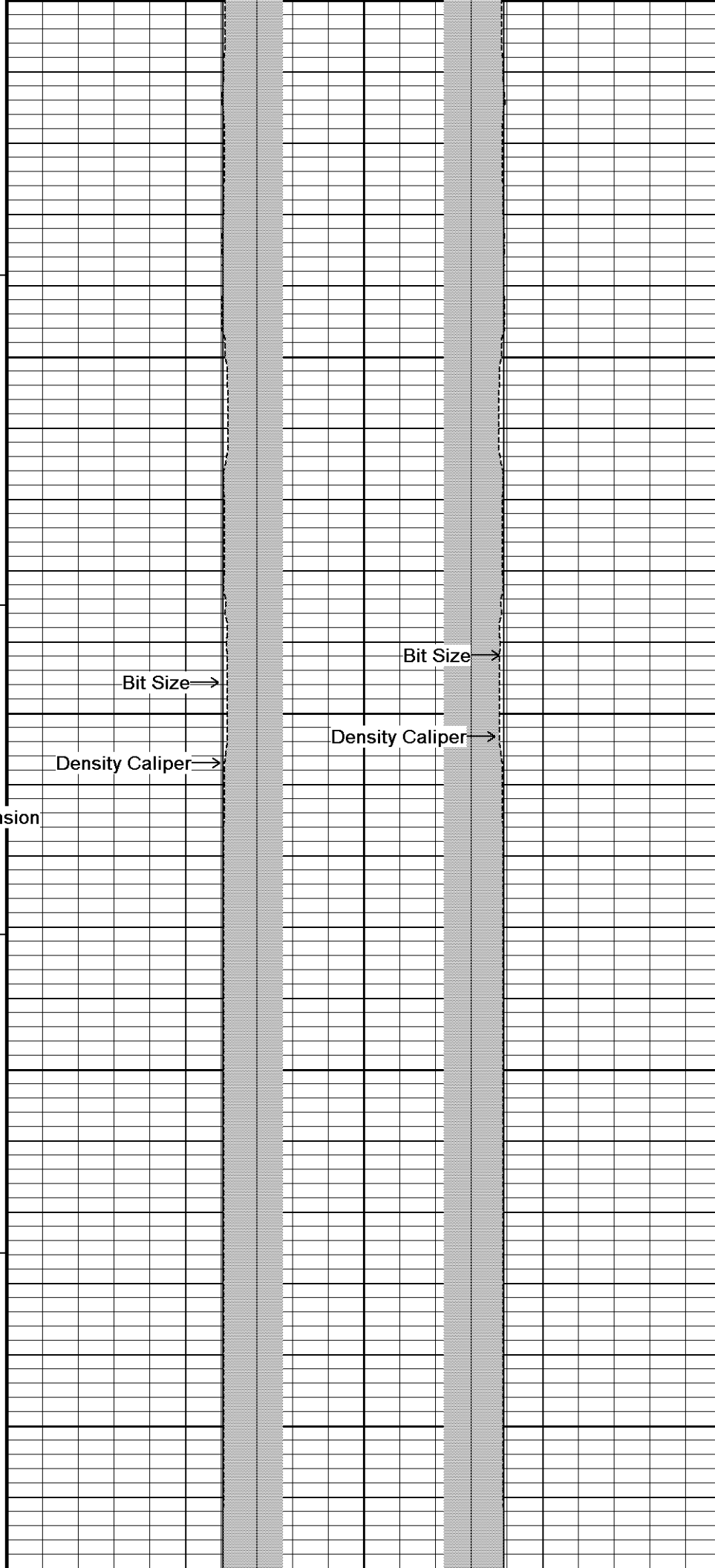


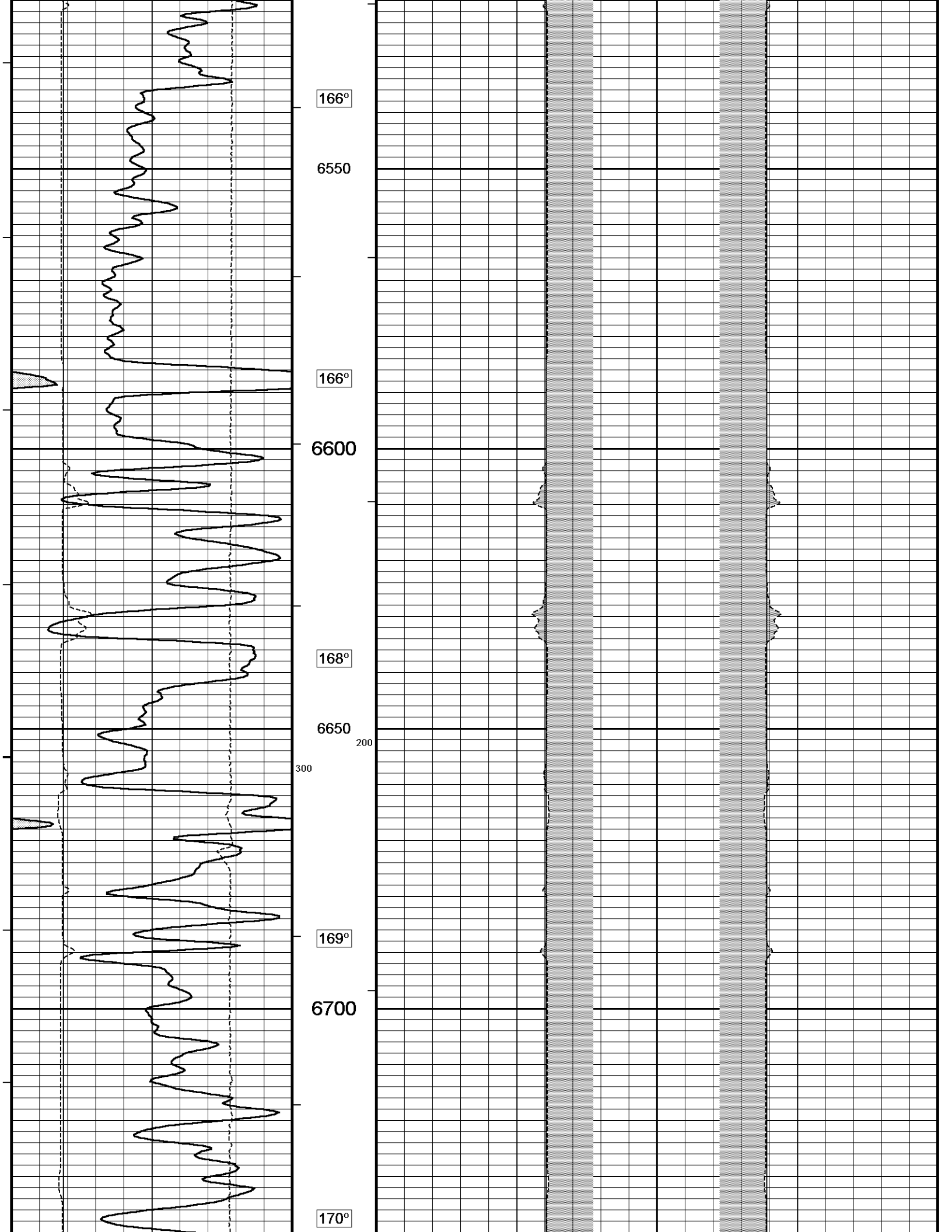


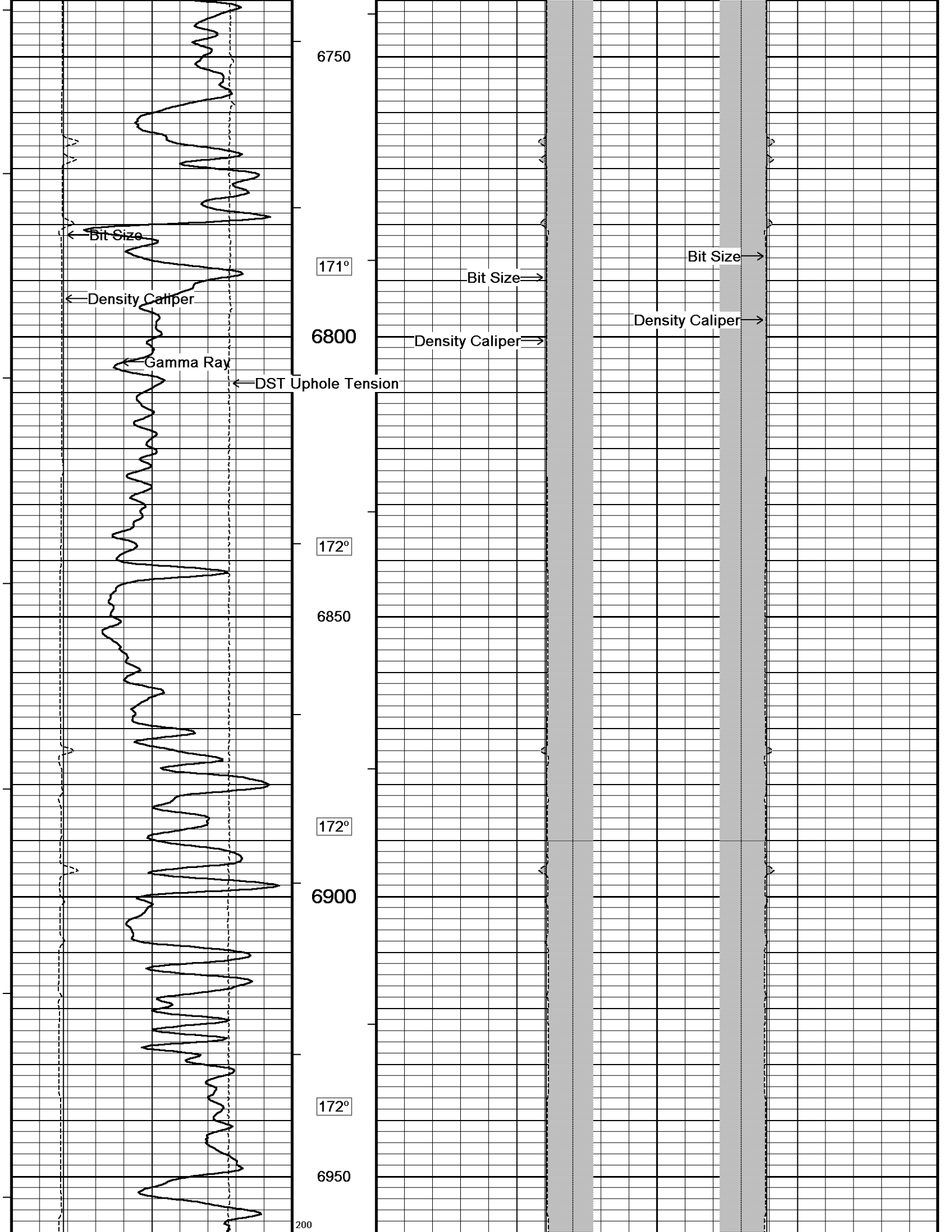


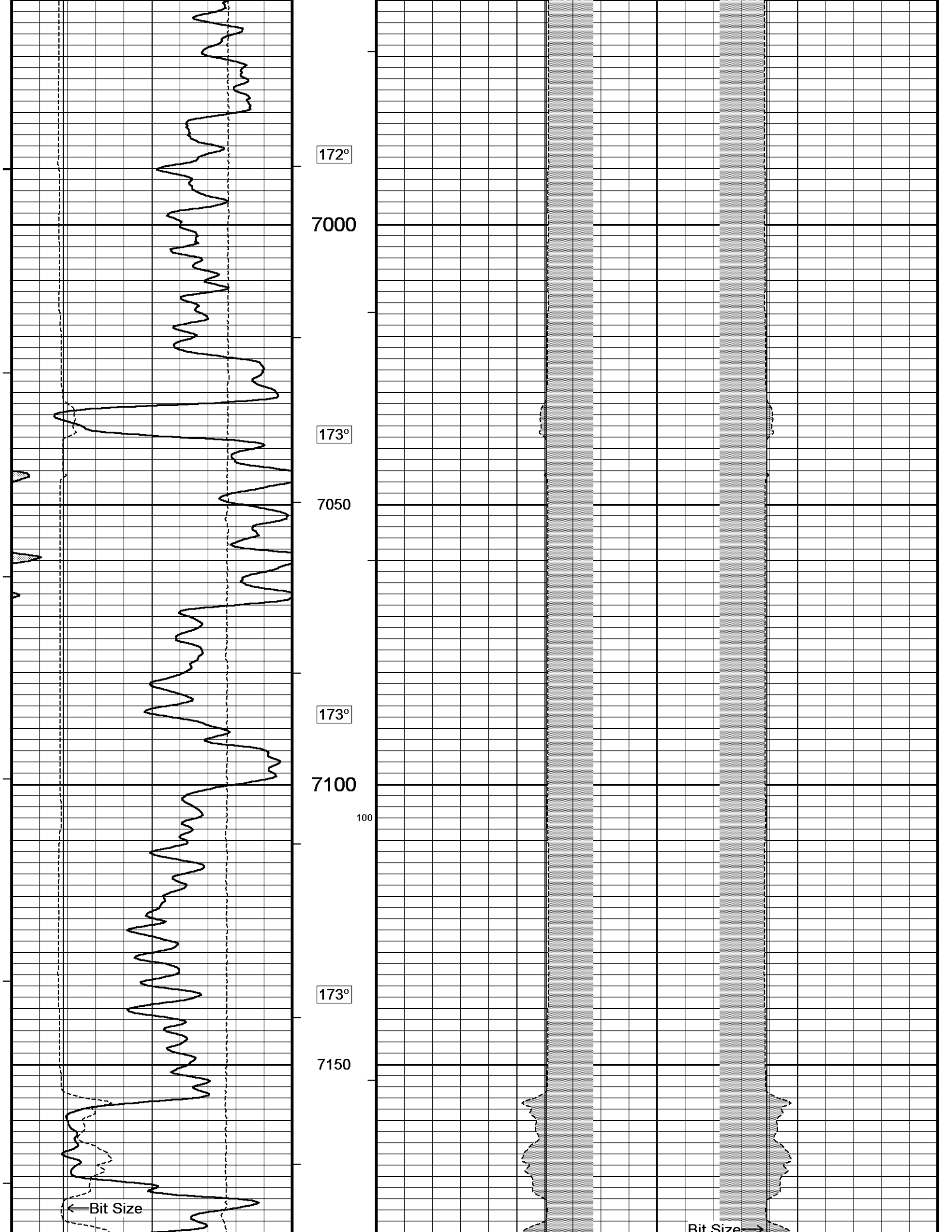


6300
163°
6350
400
165°
6400
Gamma Ray
DST Uphole Tension
165°
6450
165°
6500









172°

7000

173°

7050

173°

7100

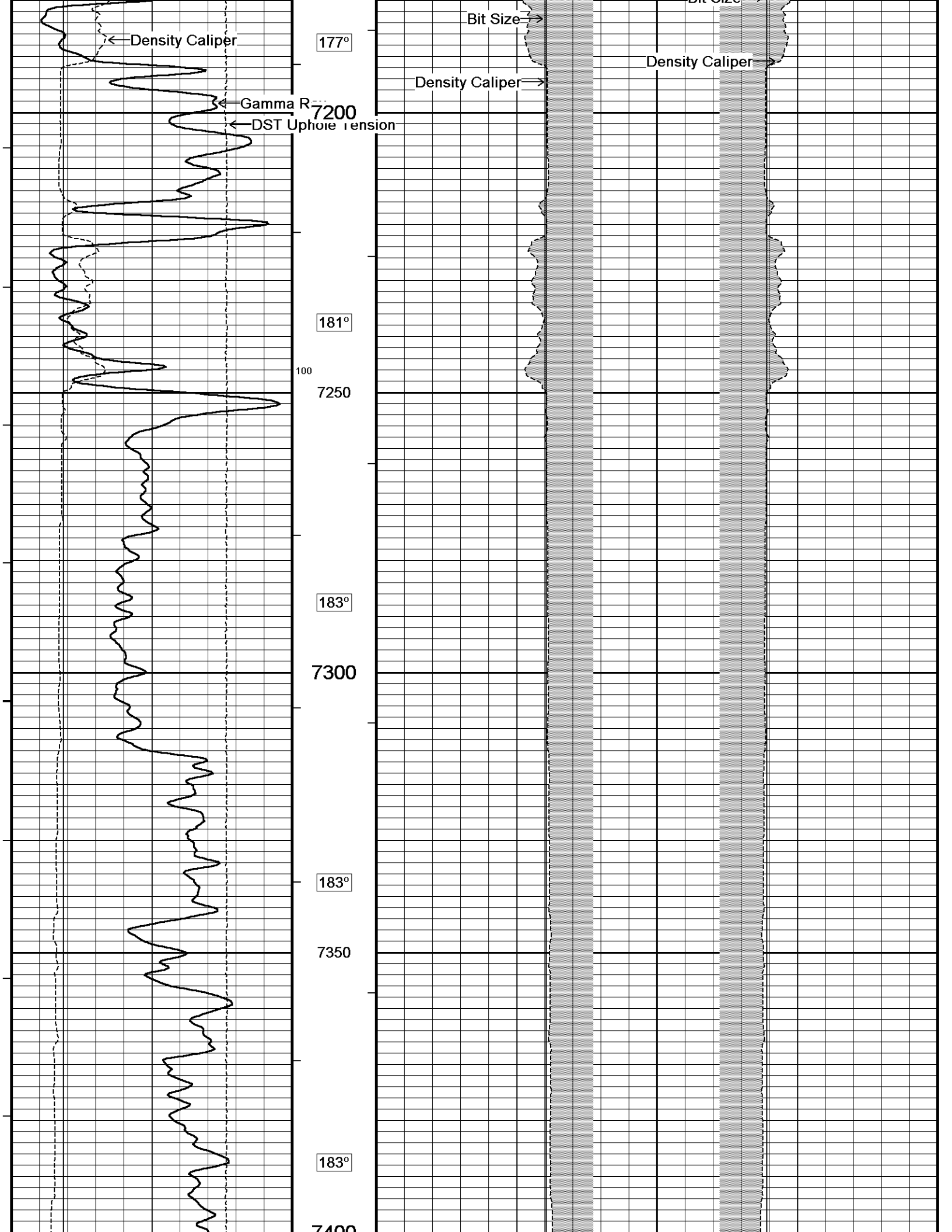
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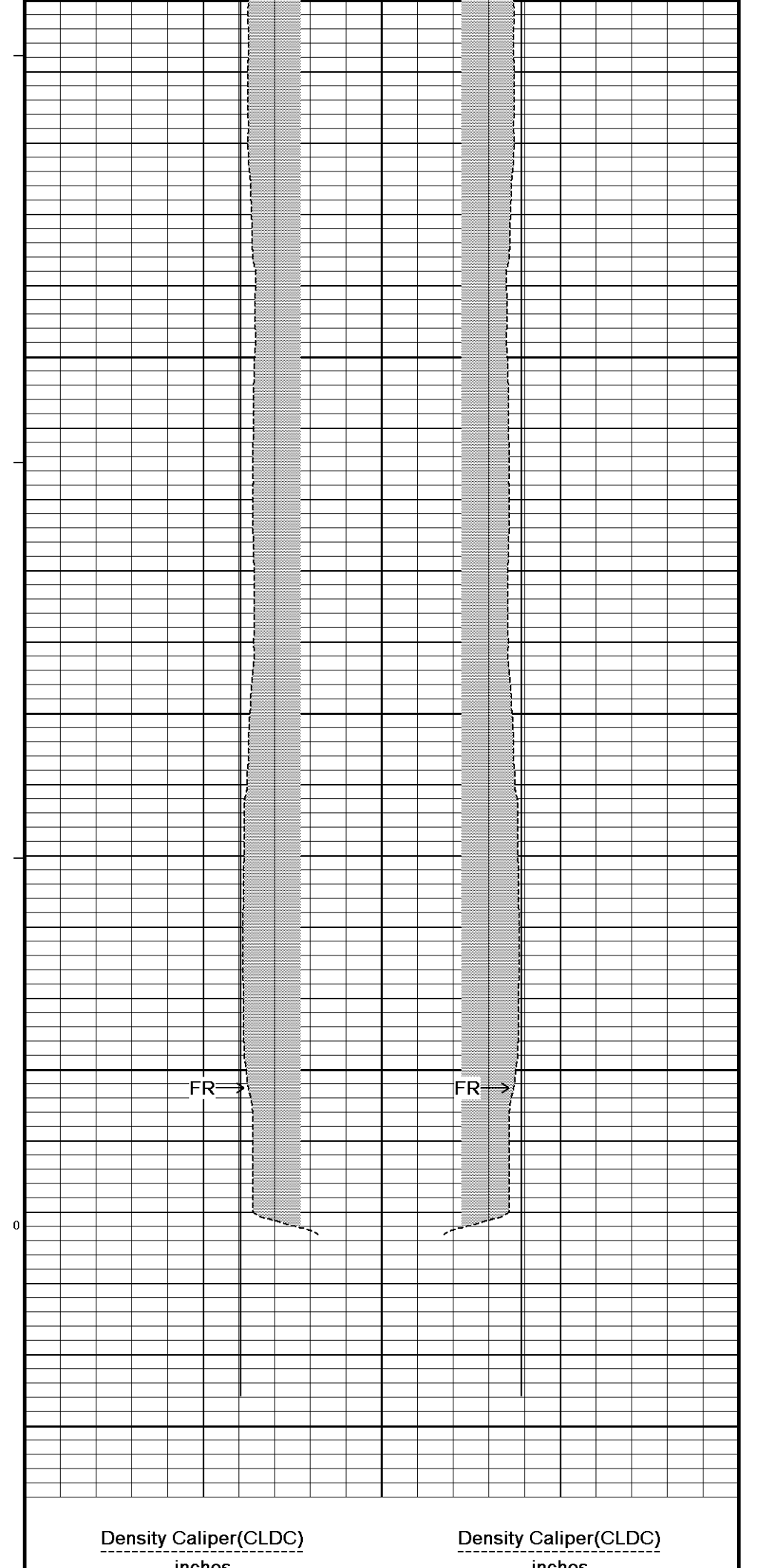
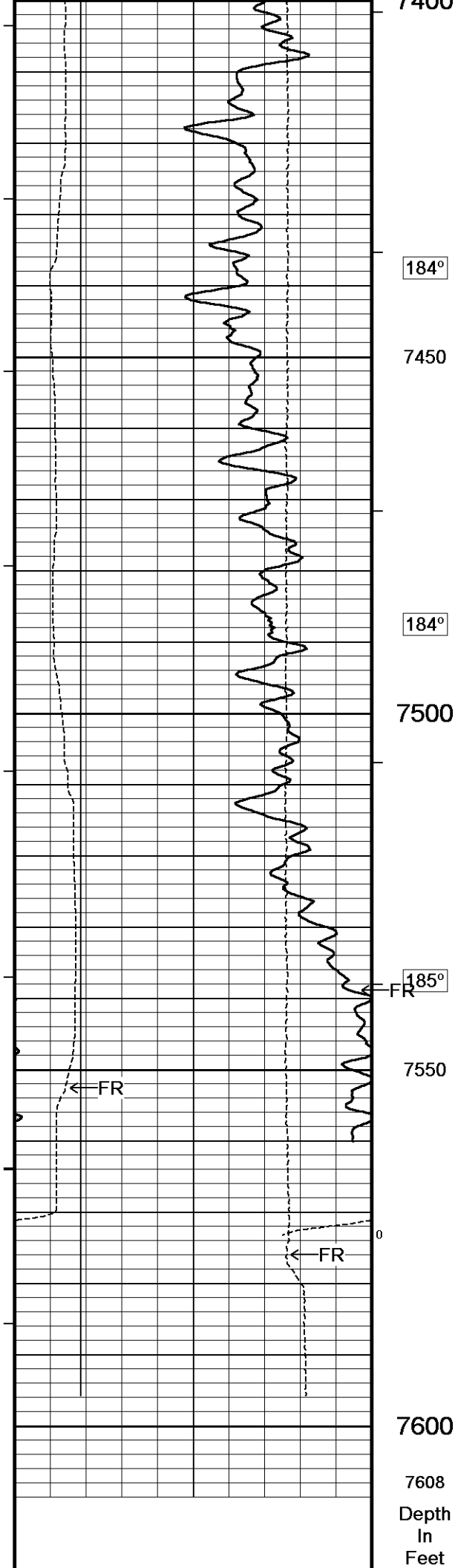
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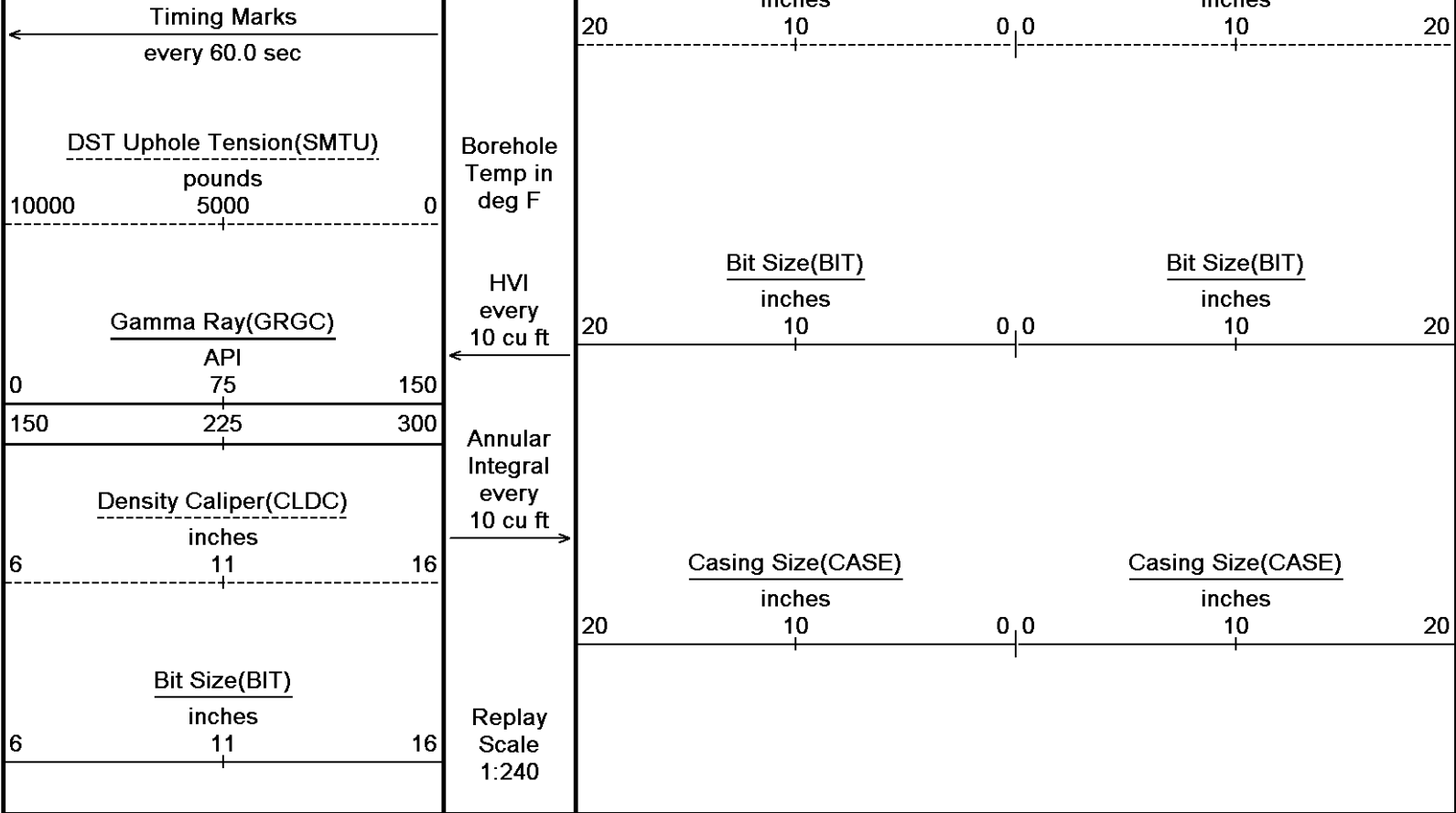
7150

← Bit Size

Bit Size →







Depth Based Data - Maximum Sampling Increment 10.0cm
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5 INCH MAIN LOG

DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-2.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 Neutron
MDN-A.B 160 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

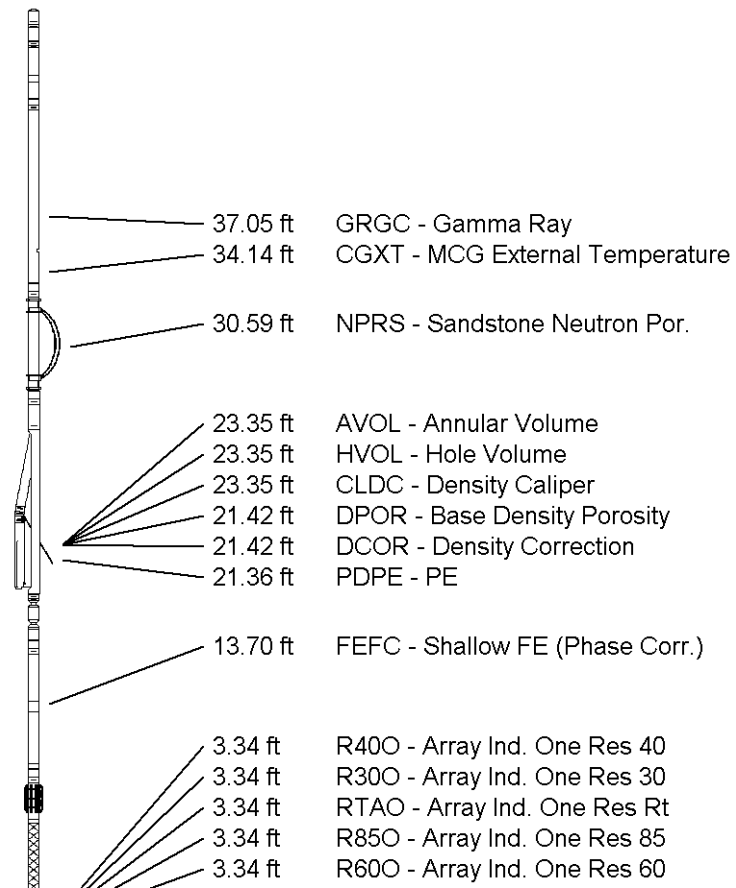
- Compact Density/Caliper
MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

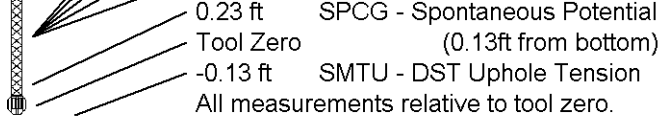
- SKJ-E.A Compact Knuckle Joint
SKJ-E.A 114 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

- Compact Focussed Electric
MFE-A.A 85 LG: 6.03 ft WT: 48.5 lb OD: 2.24 in

- Compact Induction
MAI-B.A 212 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

- Total Length: 46.65 ft Weight: 368.2 lb**





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 WELL GGU FEDERAL 41D-29-691
 FIELD GIBSON GULCH
 PROVINCE/COUNTY GARFIELD
 COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7553.00	
Elevation Drill Floor	6126.00	feet	Depth Driller	7575.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7576.00	feet



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HOLE VOLUME
 CALIPER LOG

