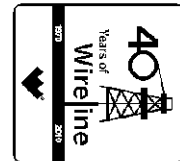




Weatherford[®]

**HOLE VOLUME
CALIPER
LOG**

COMPANY **BILL BARRETT CORPORATION**
 WELL **GGU MILLER 13A-31-691**
 FIELD **GIBSON GULCH**
 PROVINCE/COUNTY **GARFIELD**
 COUNTRY/STATE **U.S.A. / COLORADO**
 LOCATION **SHL: 1568' FSL & 1347' FWL**
BHL: 1475' FSL & 665' FWL



SEC 31 TWP 6S RGE 91W Other Services
 API Number 05-045-19520 MA/MI/FE
 Permit Number
 Permanent Datum G.L., Elevation 6029 feet
 Log Measured From K.B. @ 18 FEET above Permanent Datum
 Drilling Measured From K.B.

Elevations:
 KB 6047.00
 DF 6046.00
 GL 6029.00

Date	23-APR-2011	
Run Number	ONE	
Depth Driller	7240.00	feet
Depth Logger	7238.00	feet
First Reading	7216.00	
Last Reading	742.00	
Casing Driller	744.00	feet
Casing Logger	742.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	11.10 lb/USg	59.00 CP
PH / Fluid Loss	10.20	7.50 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	1.43 @ 98.0	ohm-m
Rmf @ Measured Temp	1.14 @ 98.0	ohm-m
Rmc @ Measured Temp	1.72 @ 98.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.78 @ 183.0	ohm-m
Time Since Circulation	5 HOURS	
Max Recorded Temp	183.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13045	GJCT
Recorded By	D.KUNTZ	
Witnessed By	D.ASAY	

BOREHOLE RECORD

Last Edited: 23-APR-2011 19:49

Bit Size inches	Depth From feet	Depth To feet
8.750	742.00	6258.00
7.880	6258.00	7240.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	742.00	36.00

REMARKS

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
 MFE: (1) 0.5 INCH STANDOFF
 MDN: (1) DUAL BOWSPRING

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. = 9.04" (9 5/8", 36 LB/FT CASING)

8.75 INCH BIT USED FROM SURFACE CASING TO 6258 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2850 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2135 CU.FT.

ENGINEER(S): D.KUNTZ, O.GOYZUETA (JFE), F.MRABET (JFE)

OPERATOR(S): K.BOBLITT

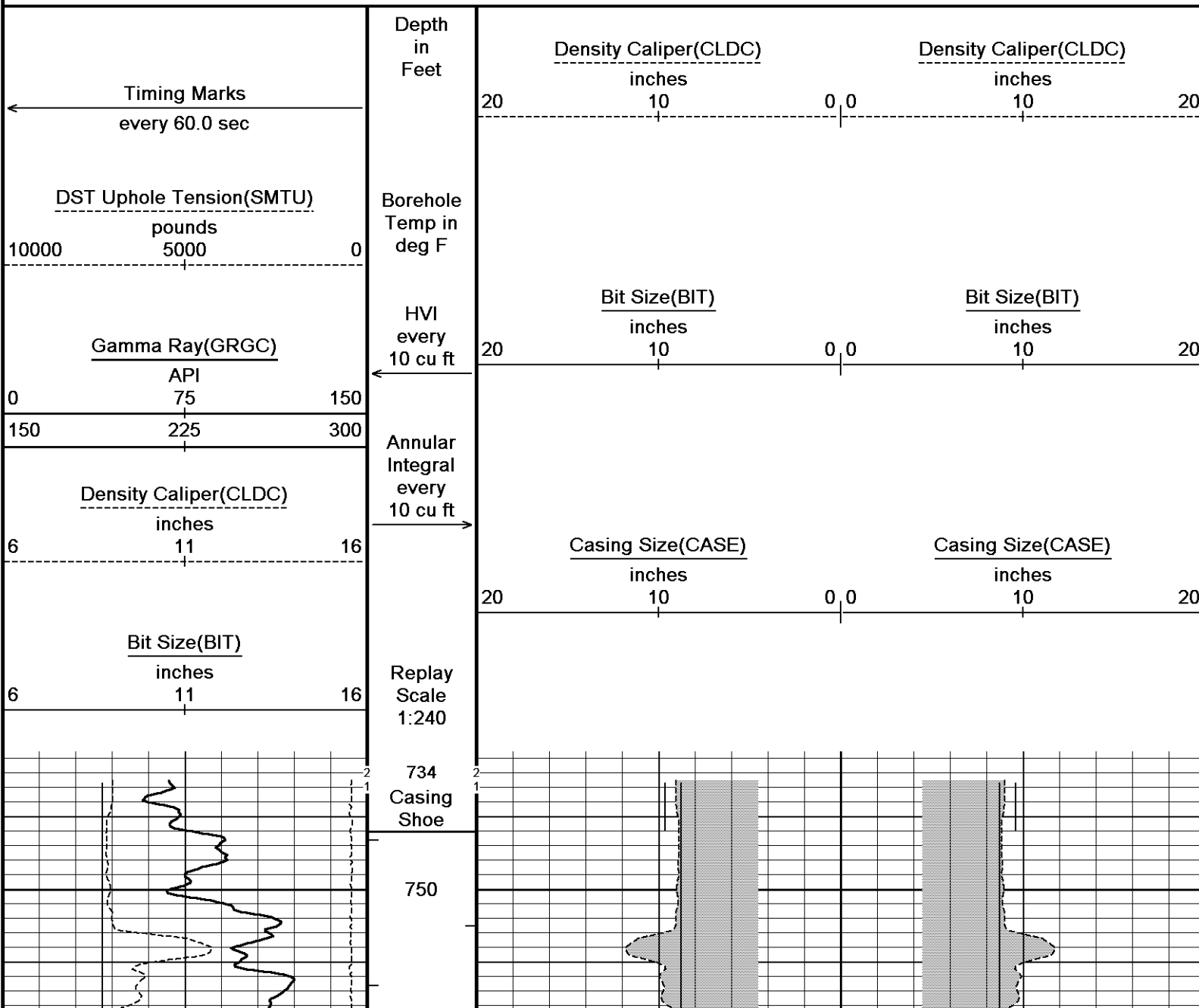
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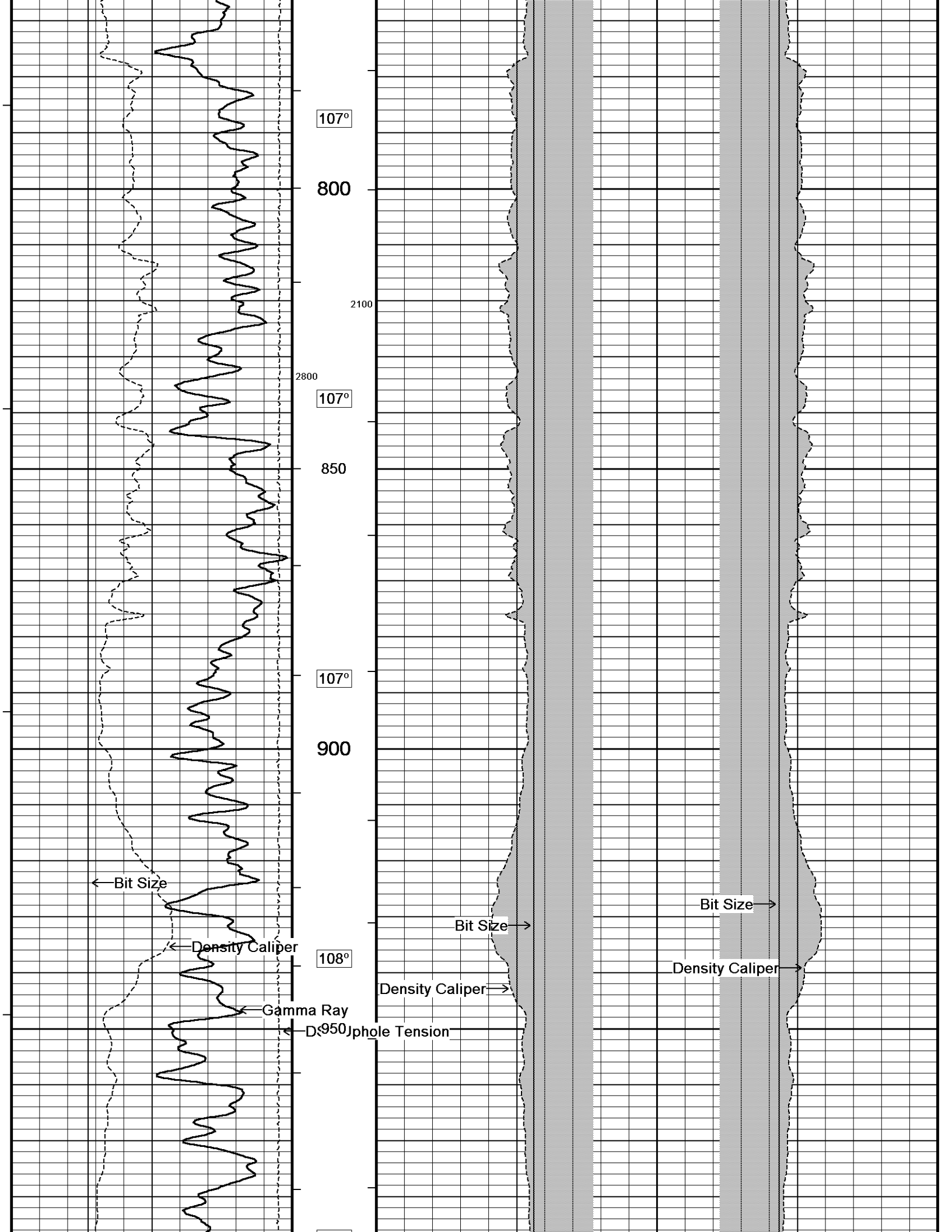
RIG: PATTERSON #51

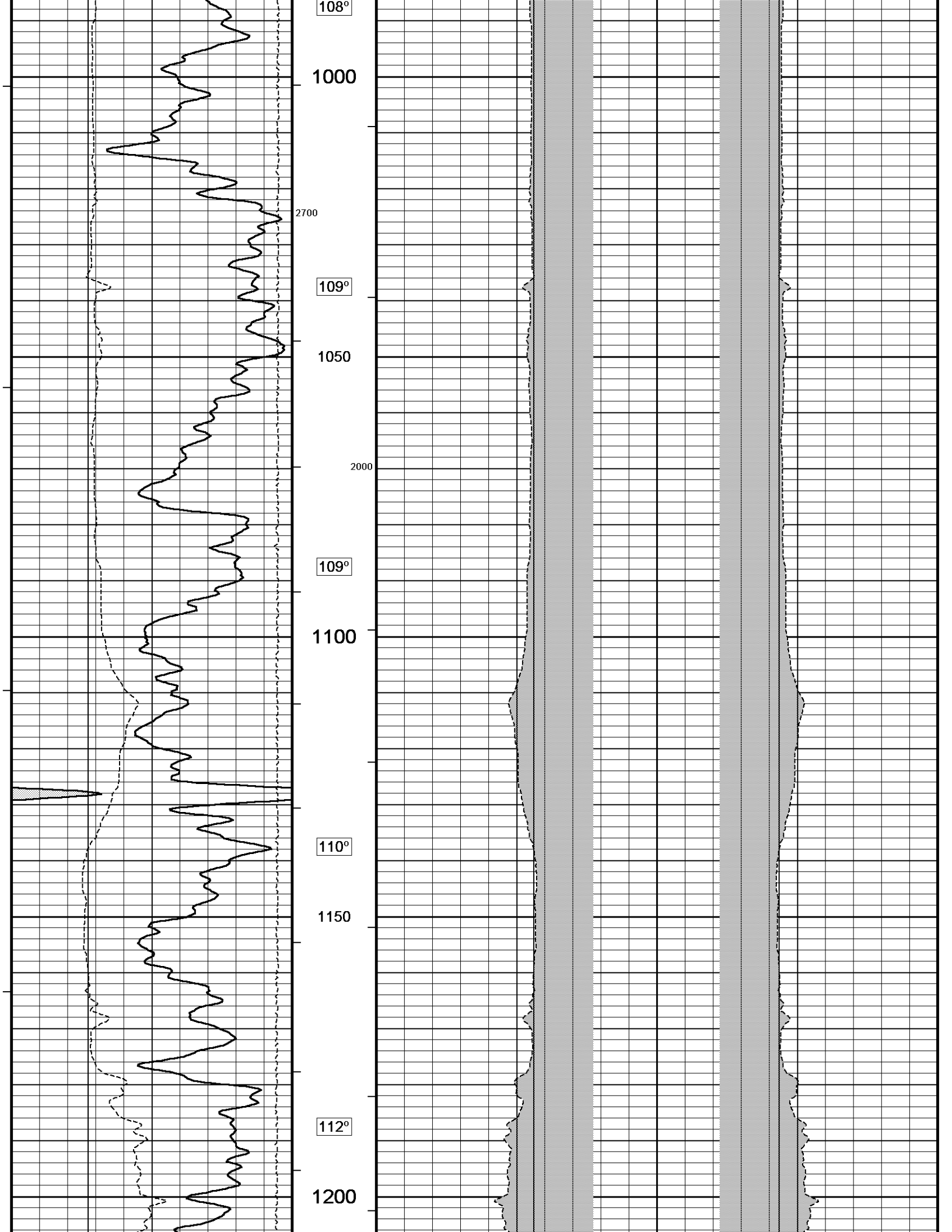
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

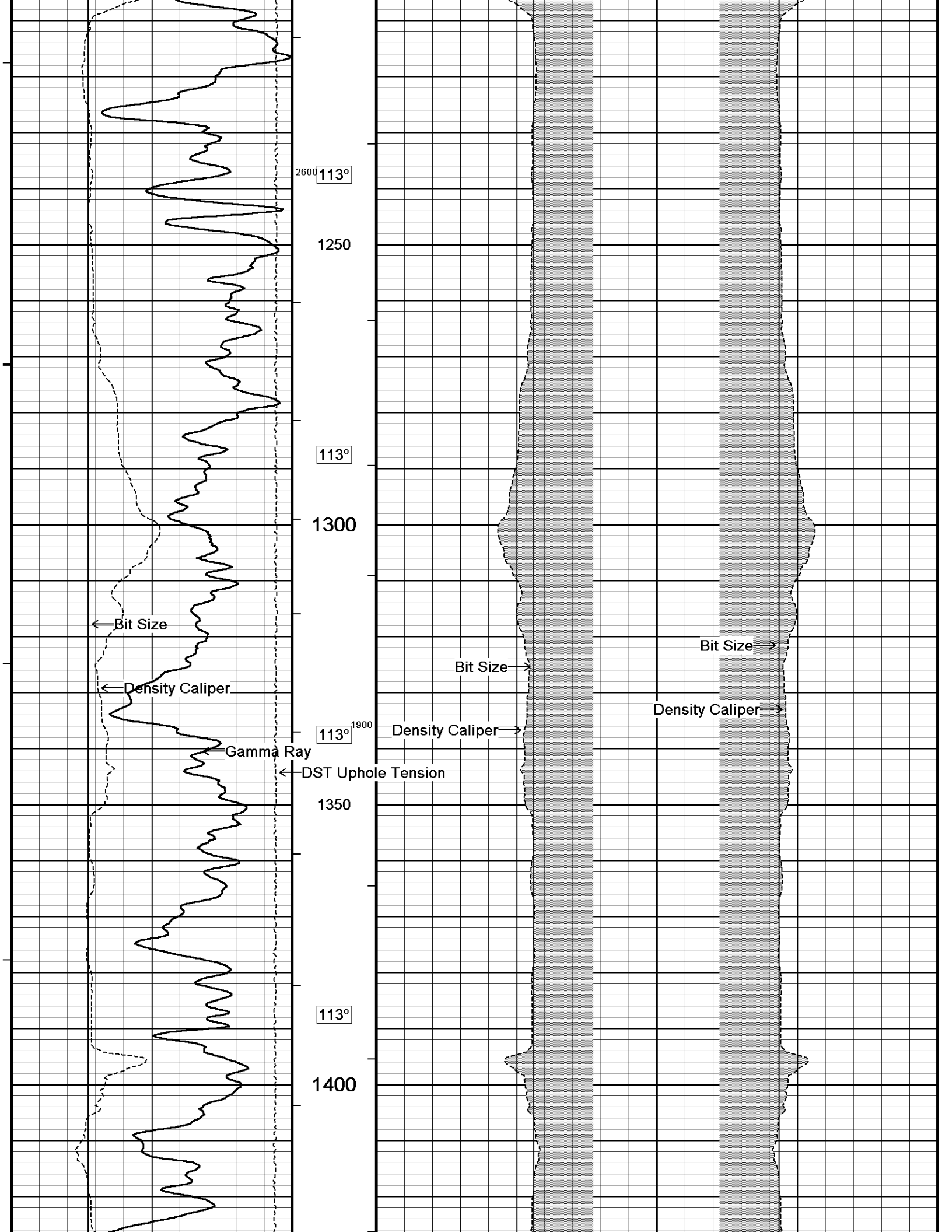
5 INCH MAIN LOG

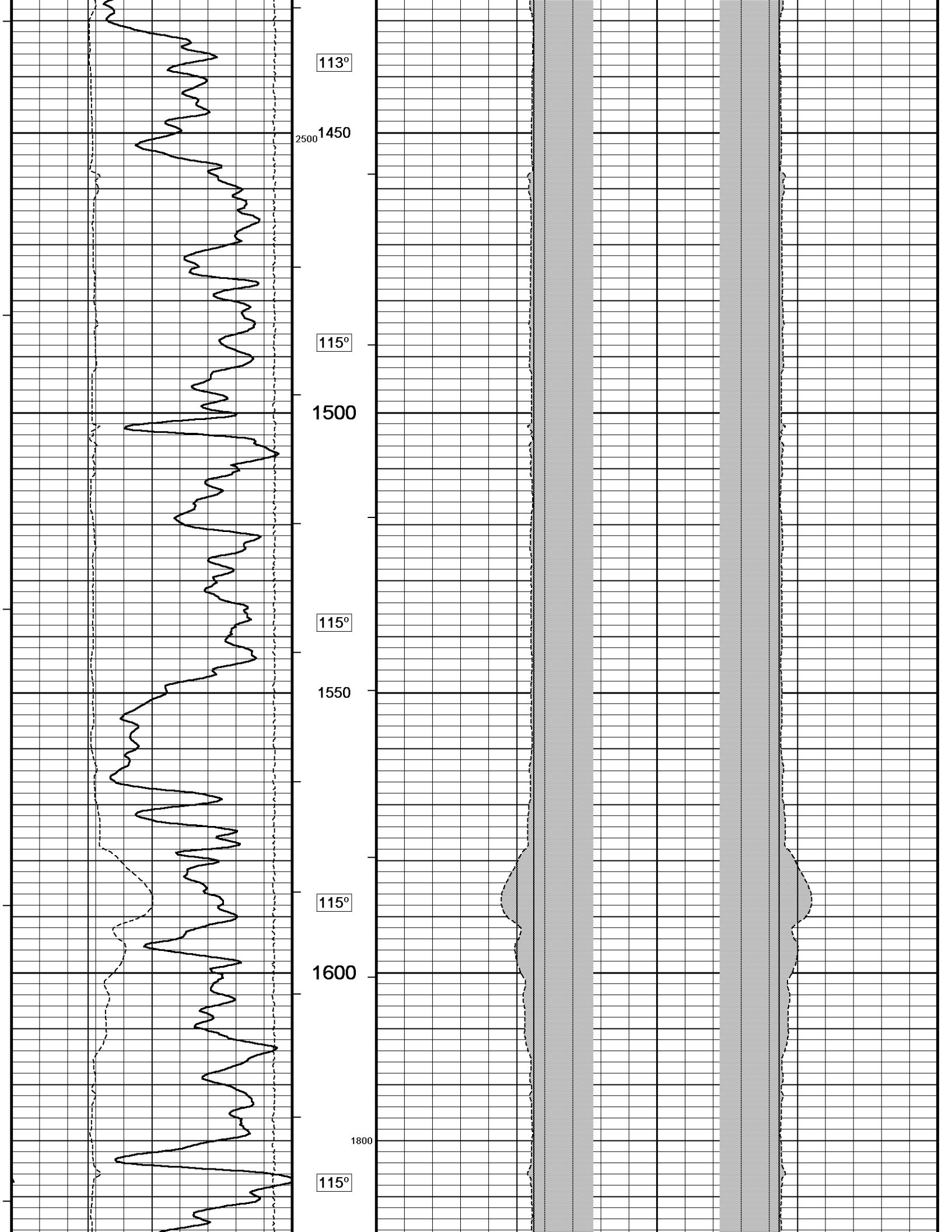
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 23-APR-2011 20:01
 Filename: C:\Minimus\LOGS\Bill Barrett\GGU Miller 13A-31-691\Main.dta
 Recorded on 23-APR-2011 17:24
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

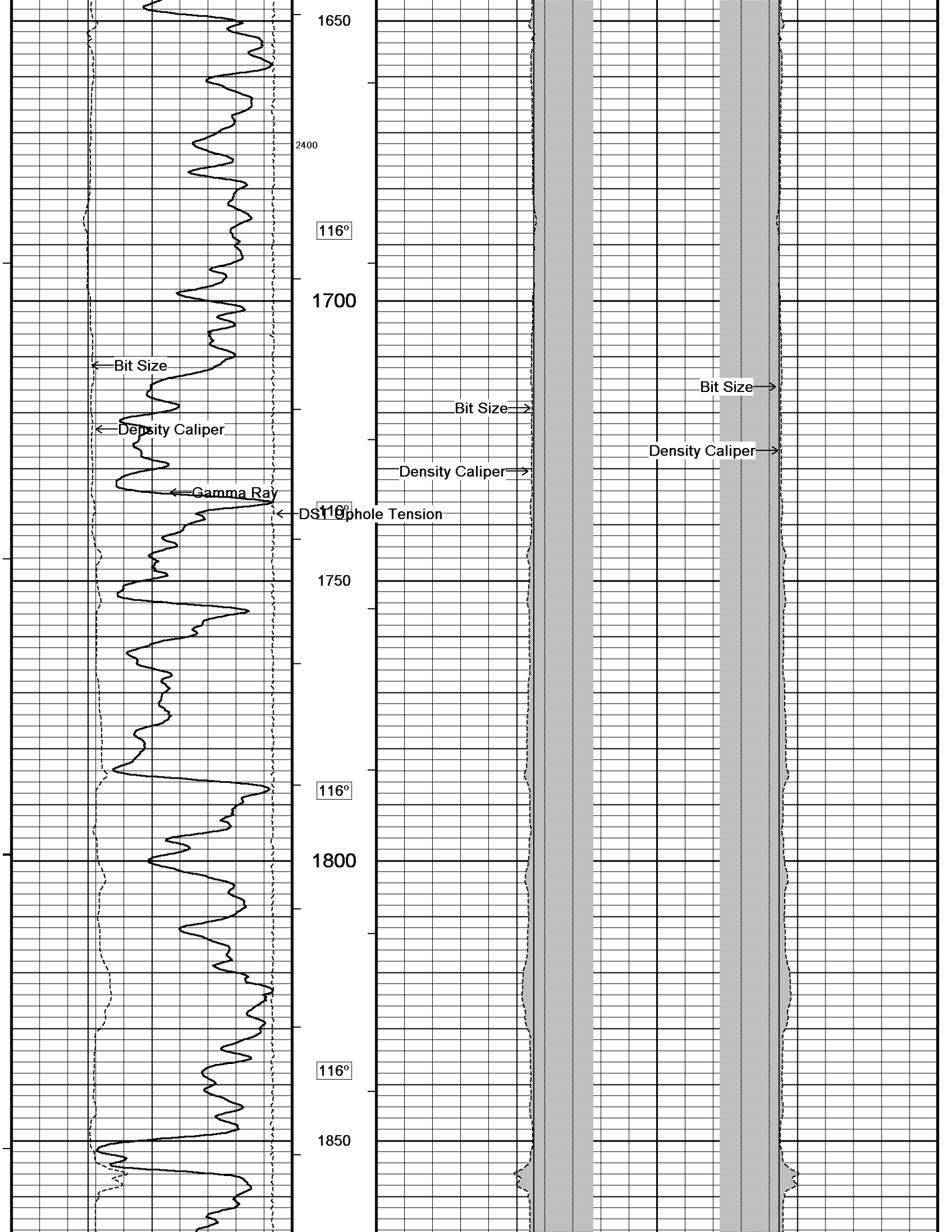


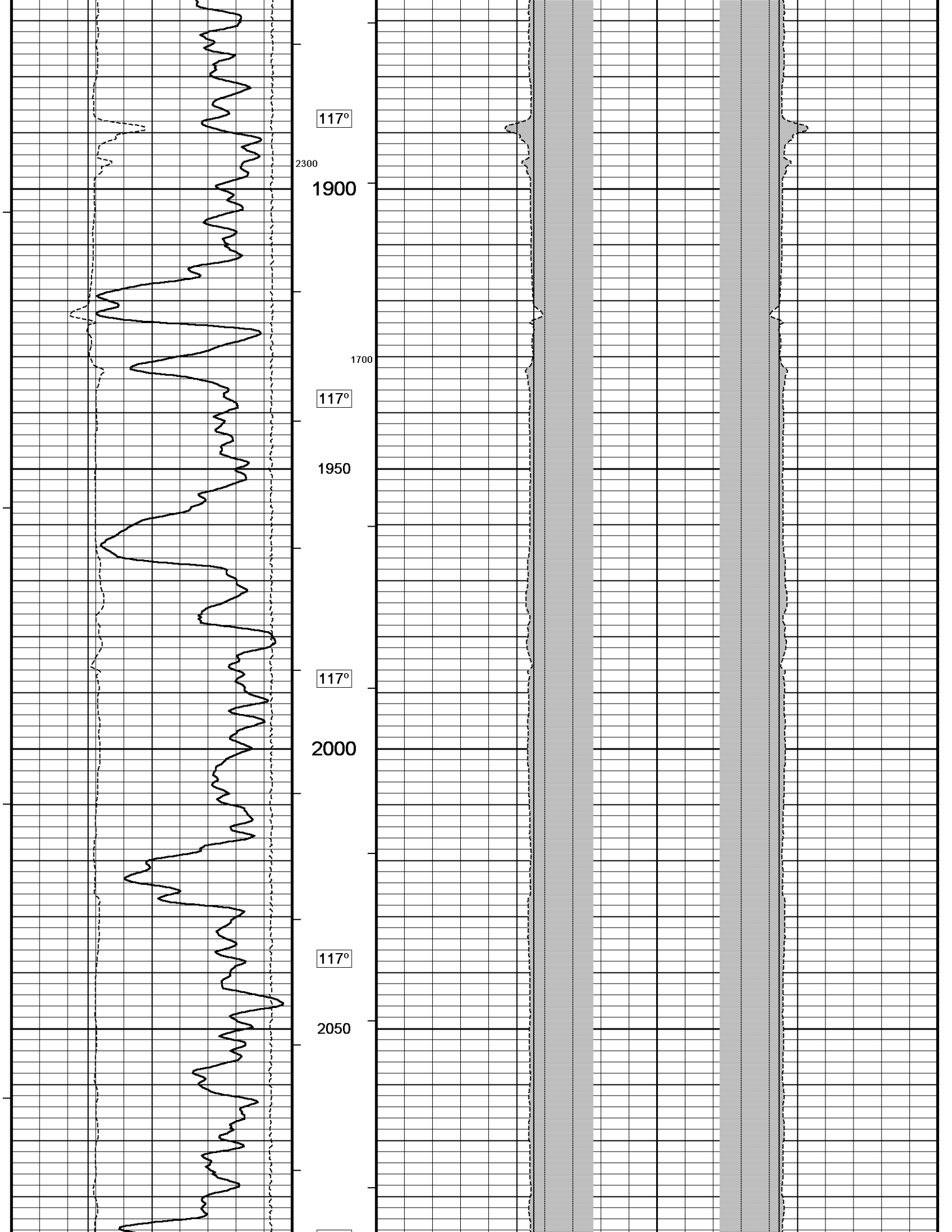


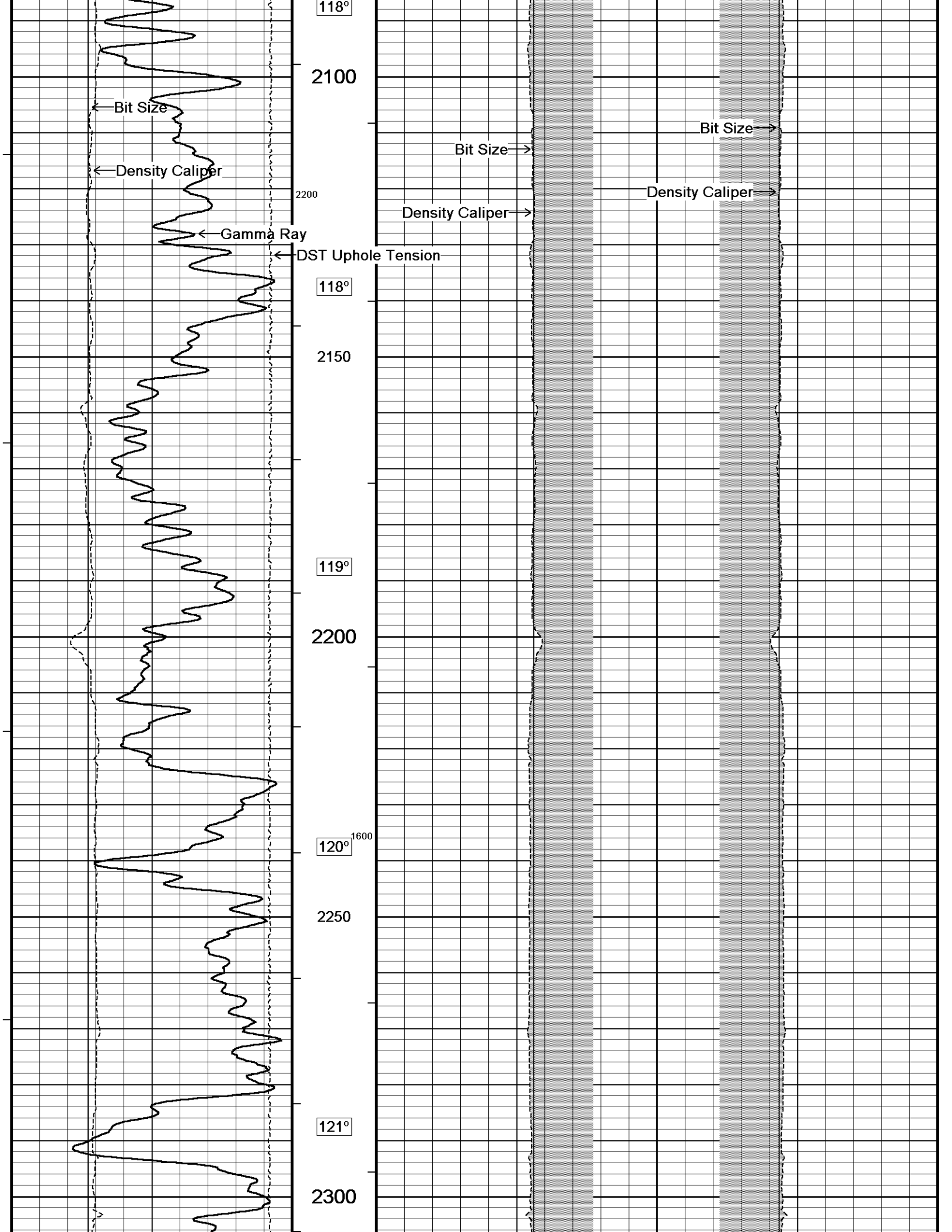


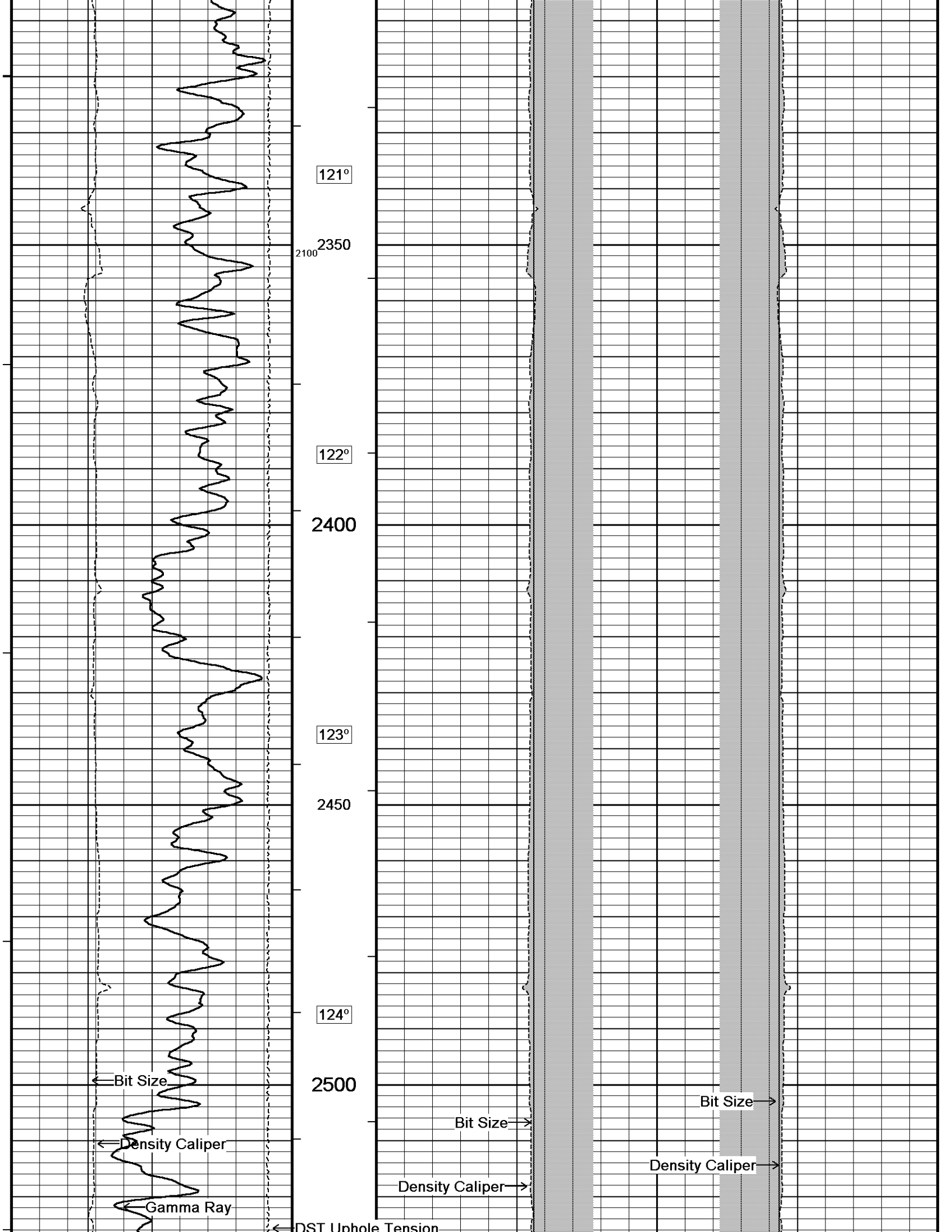


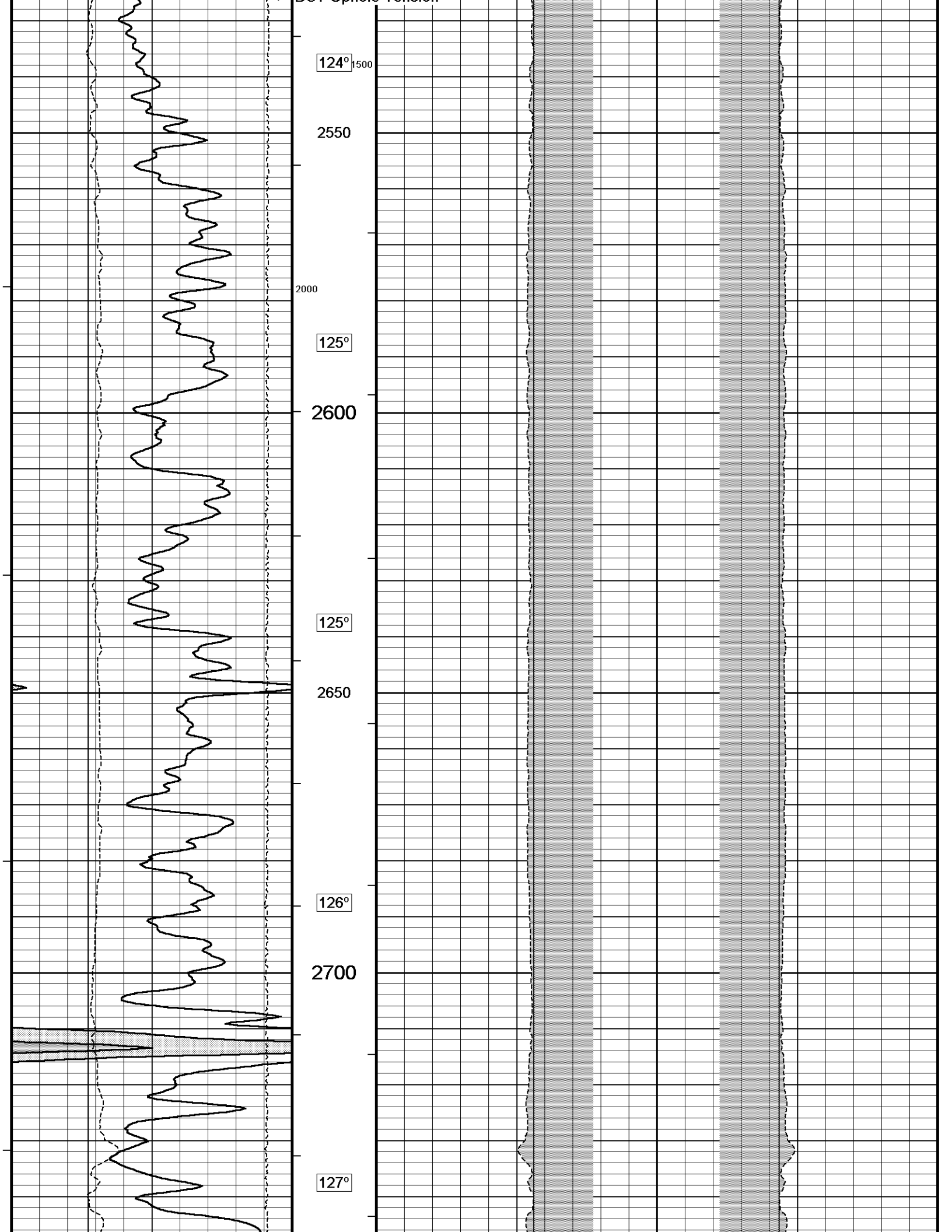


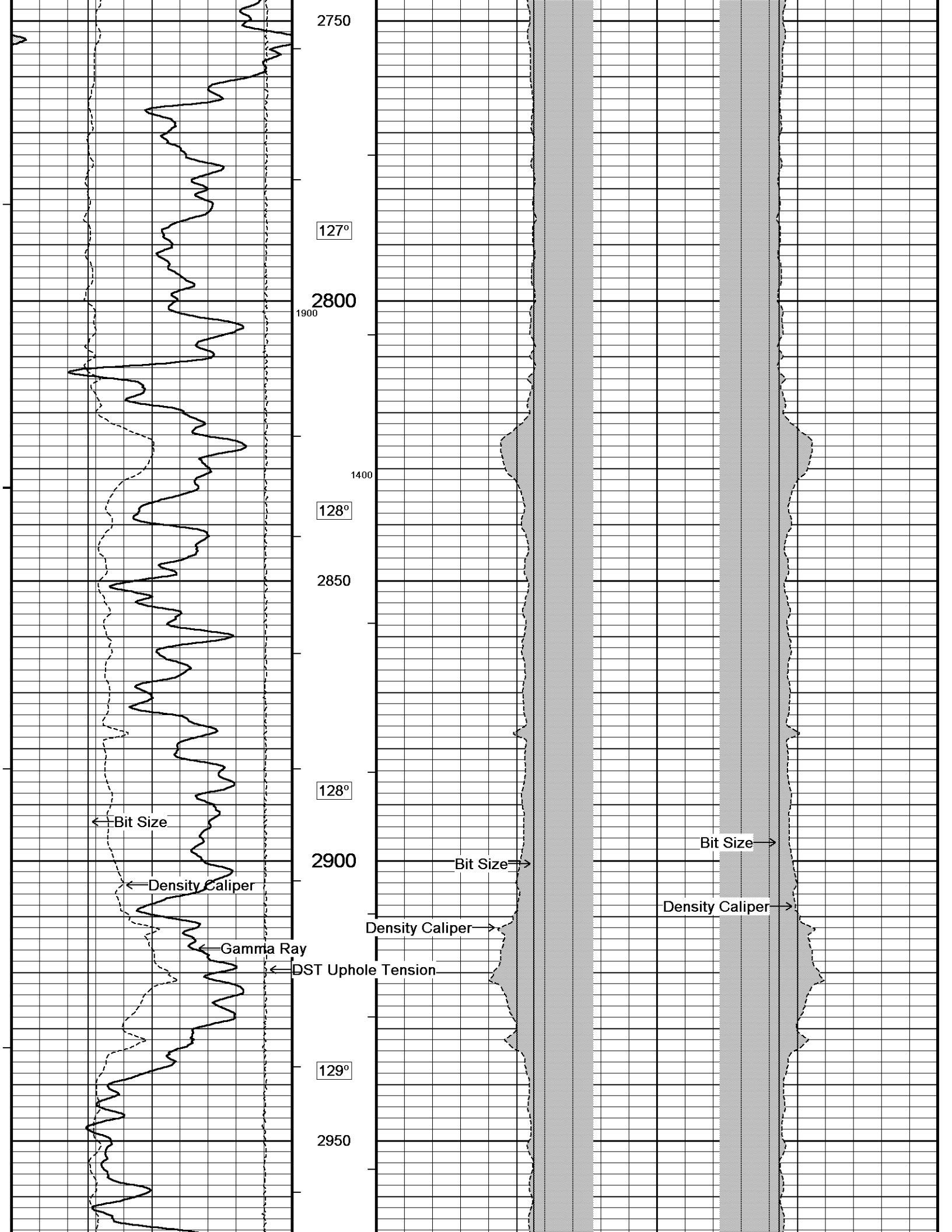


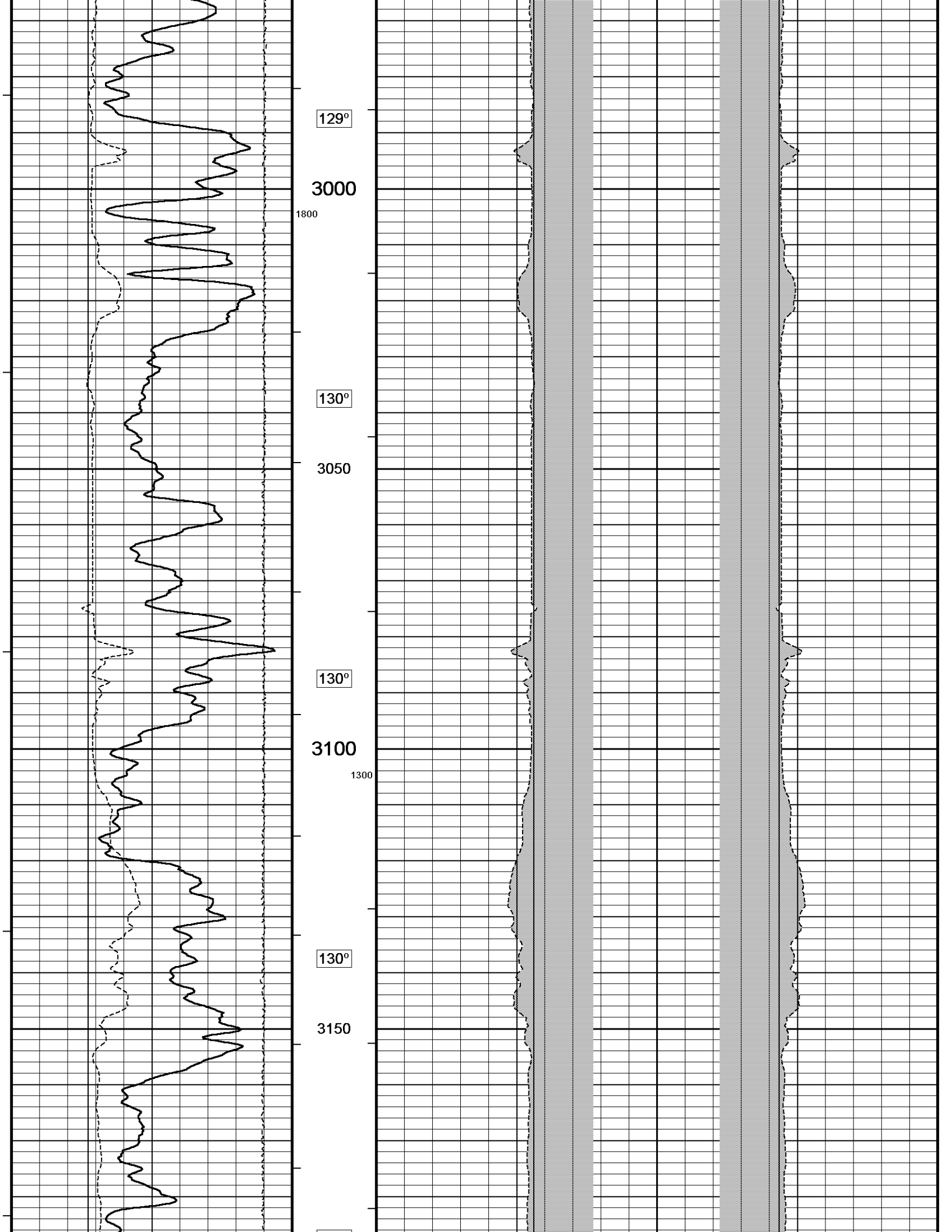


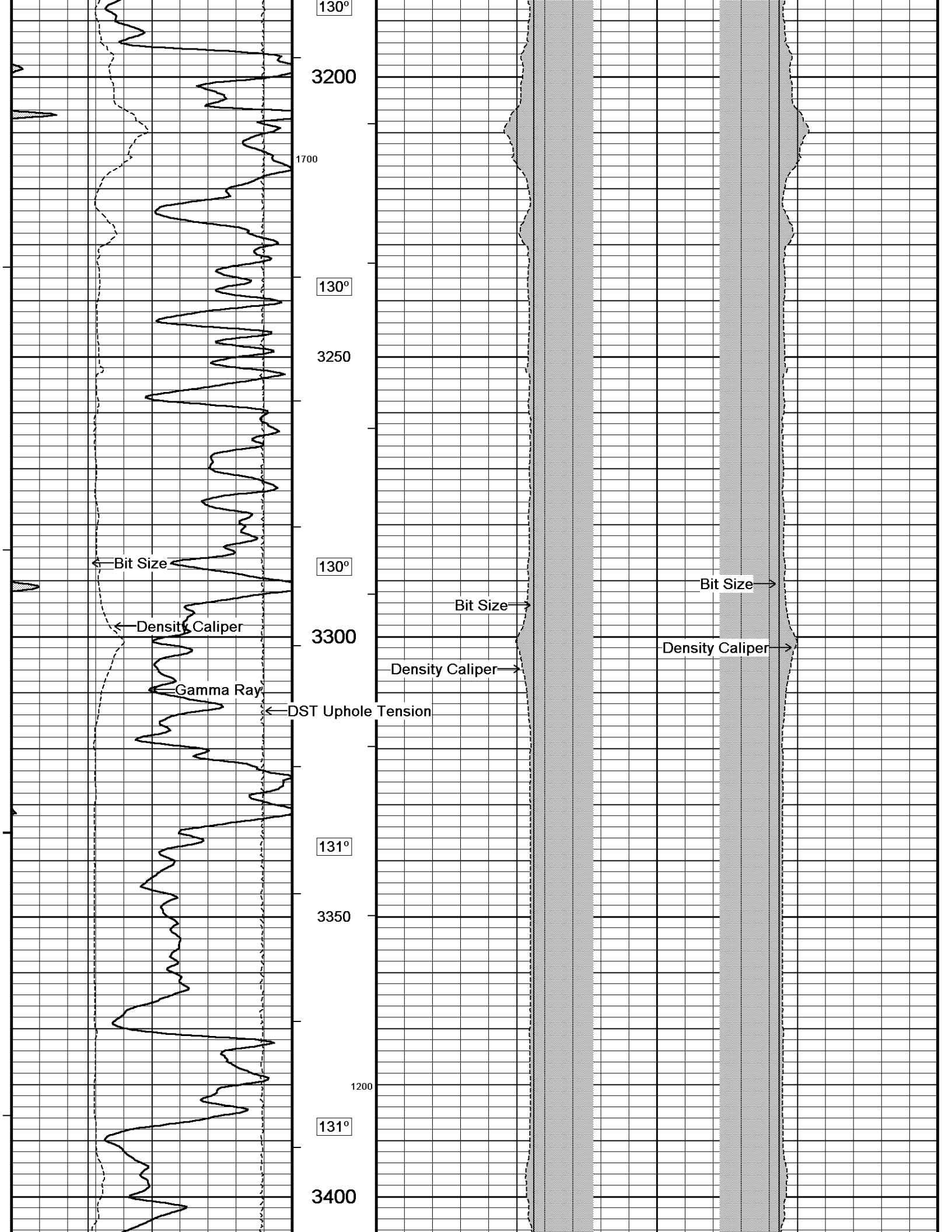


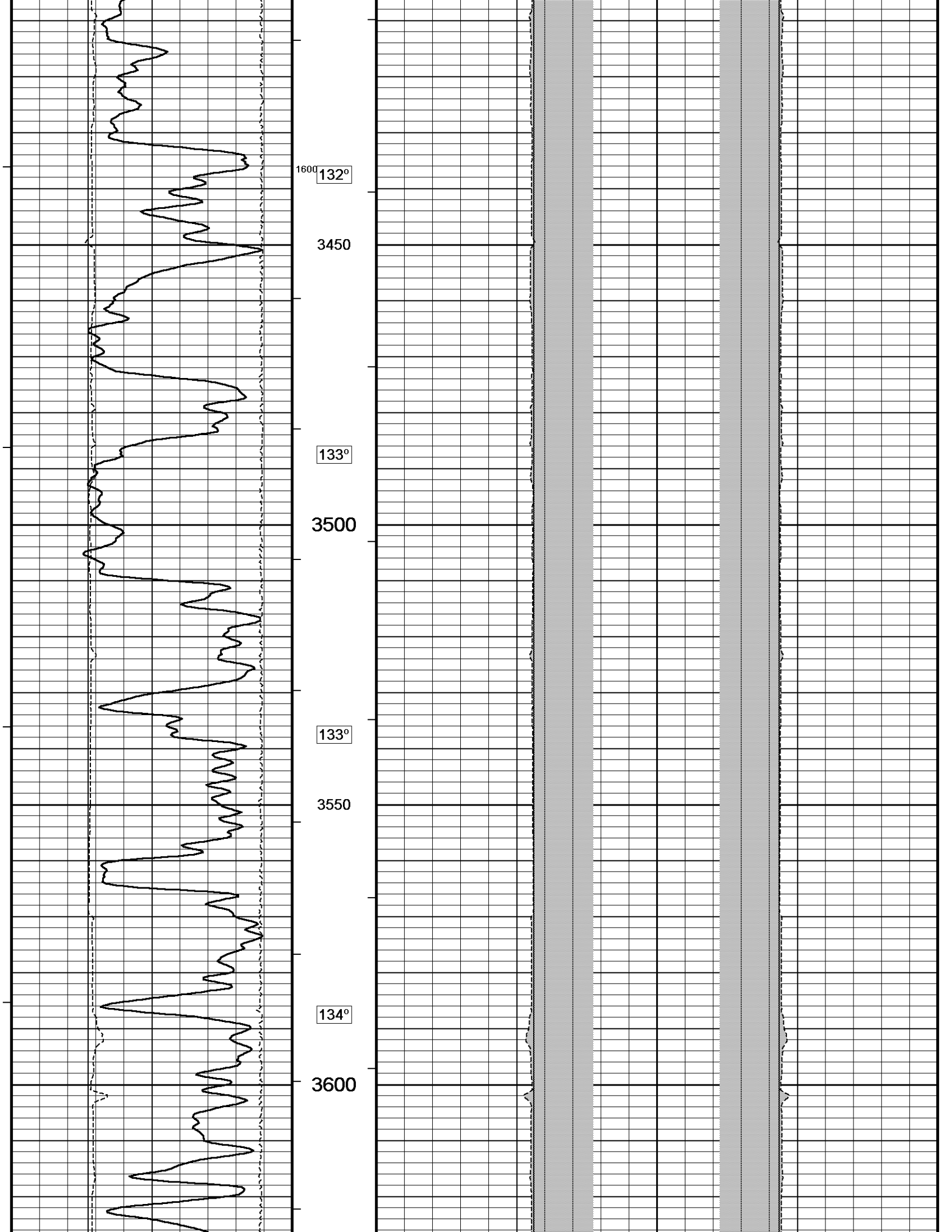


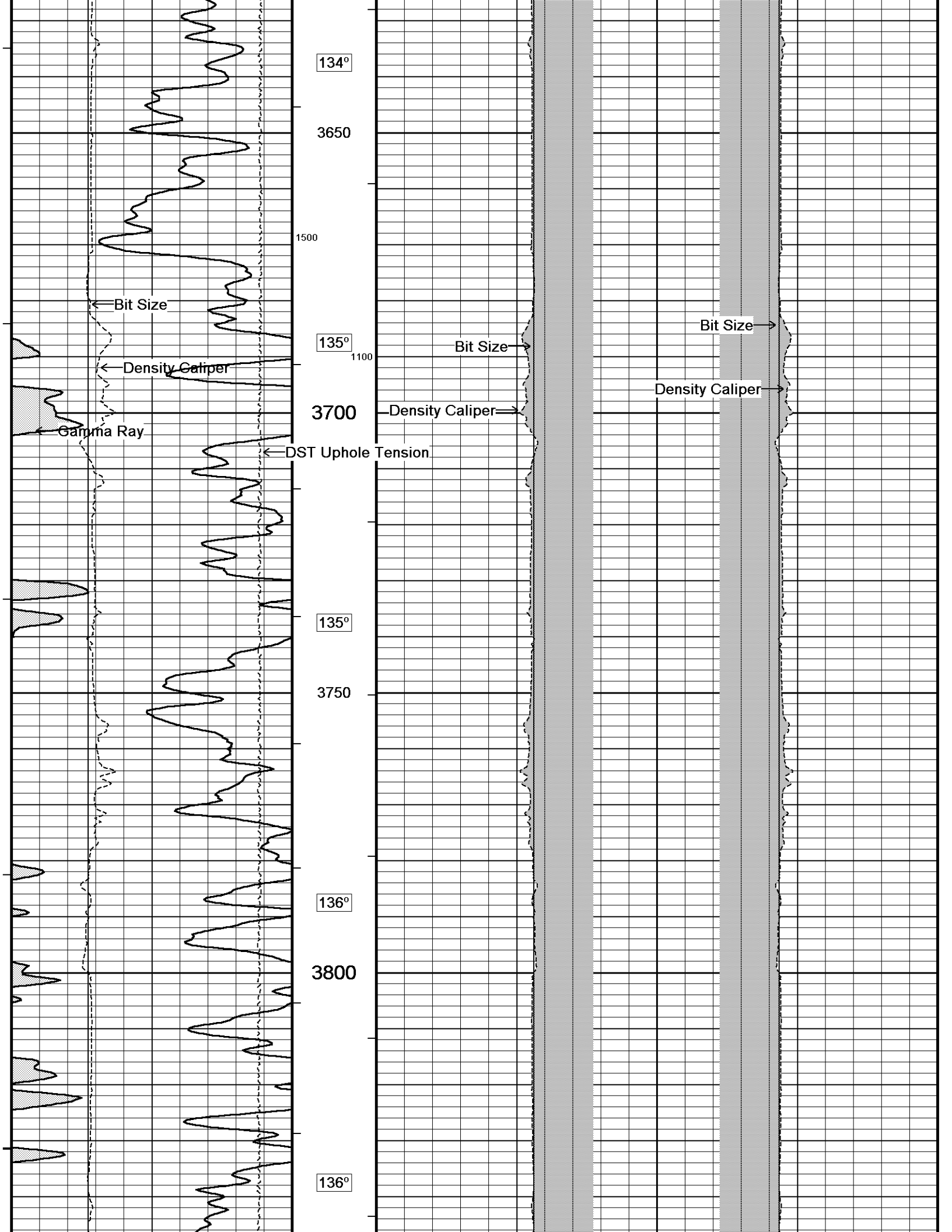


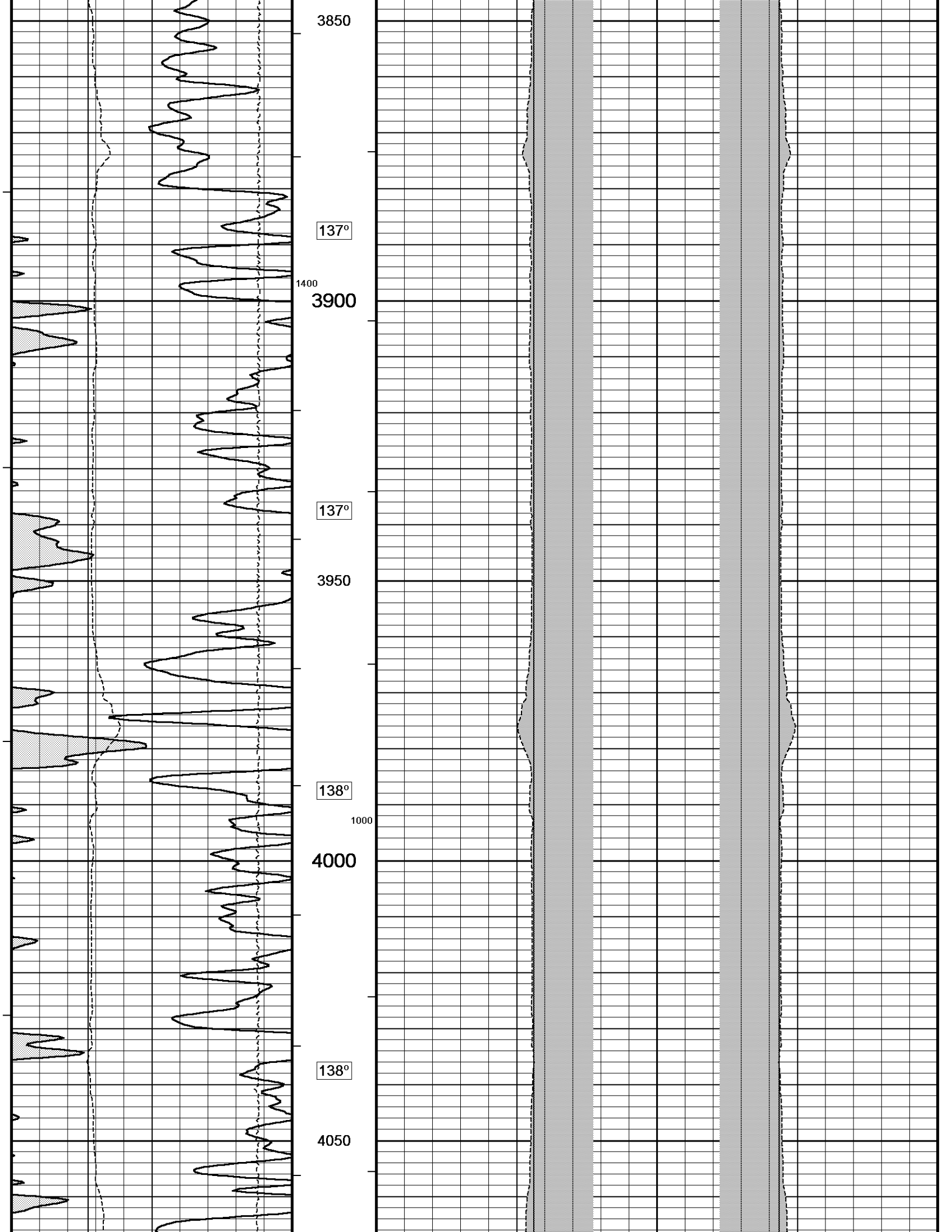


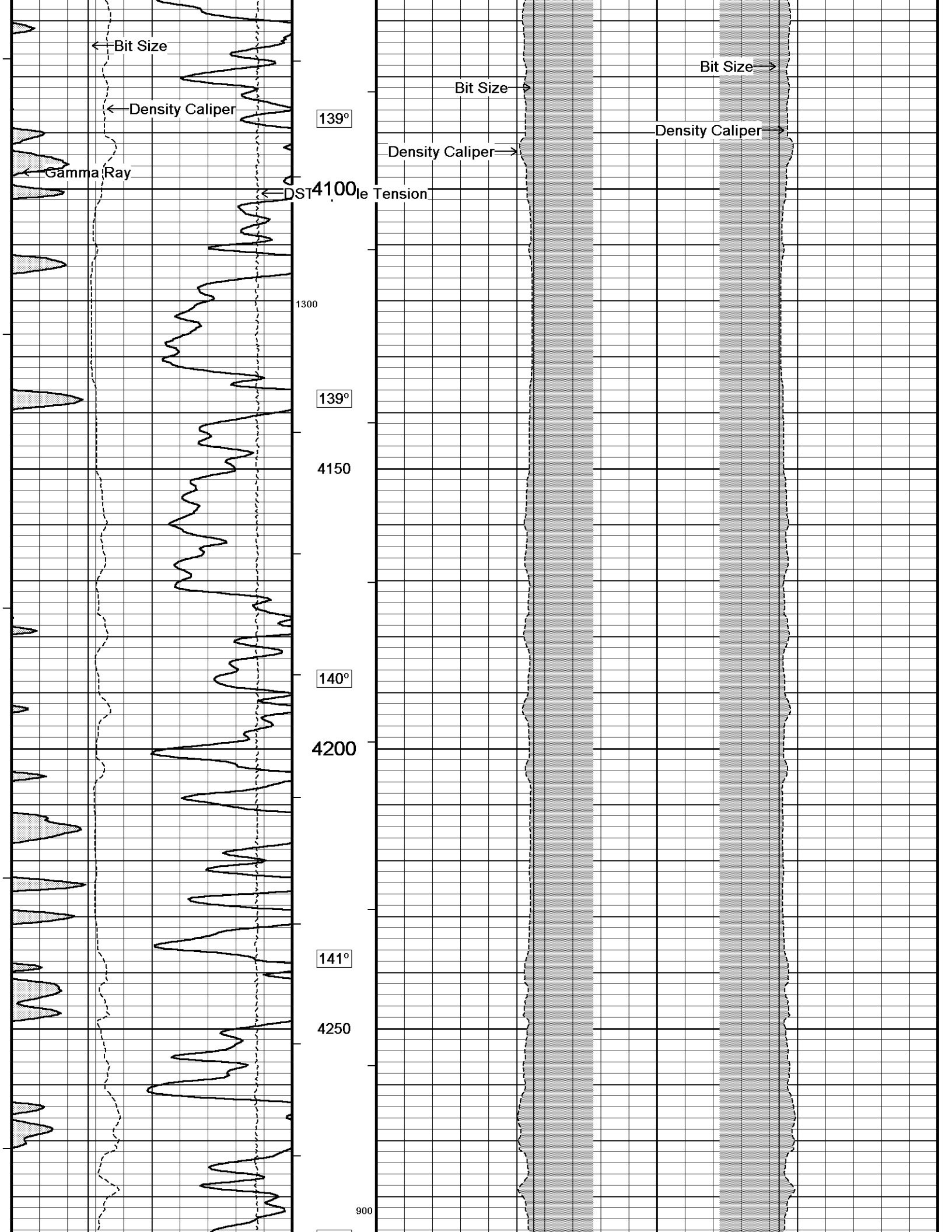












← Bit Size

← Density Caliper

← Gamma Ray

← DST 4100 le Tension

139°

139°

4150

140°

4200

141°

4250

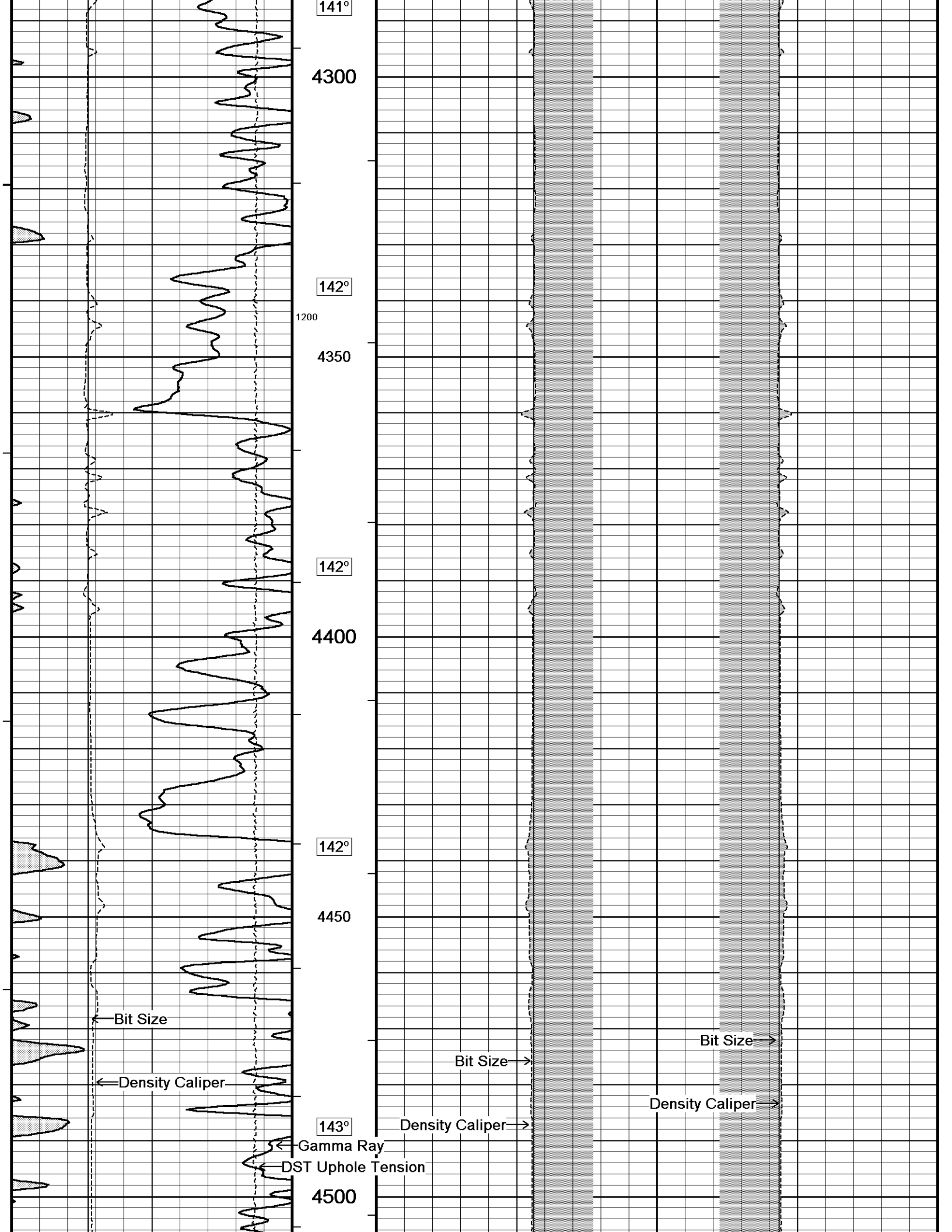
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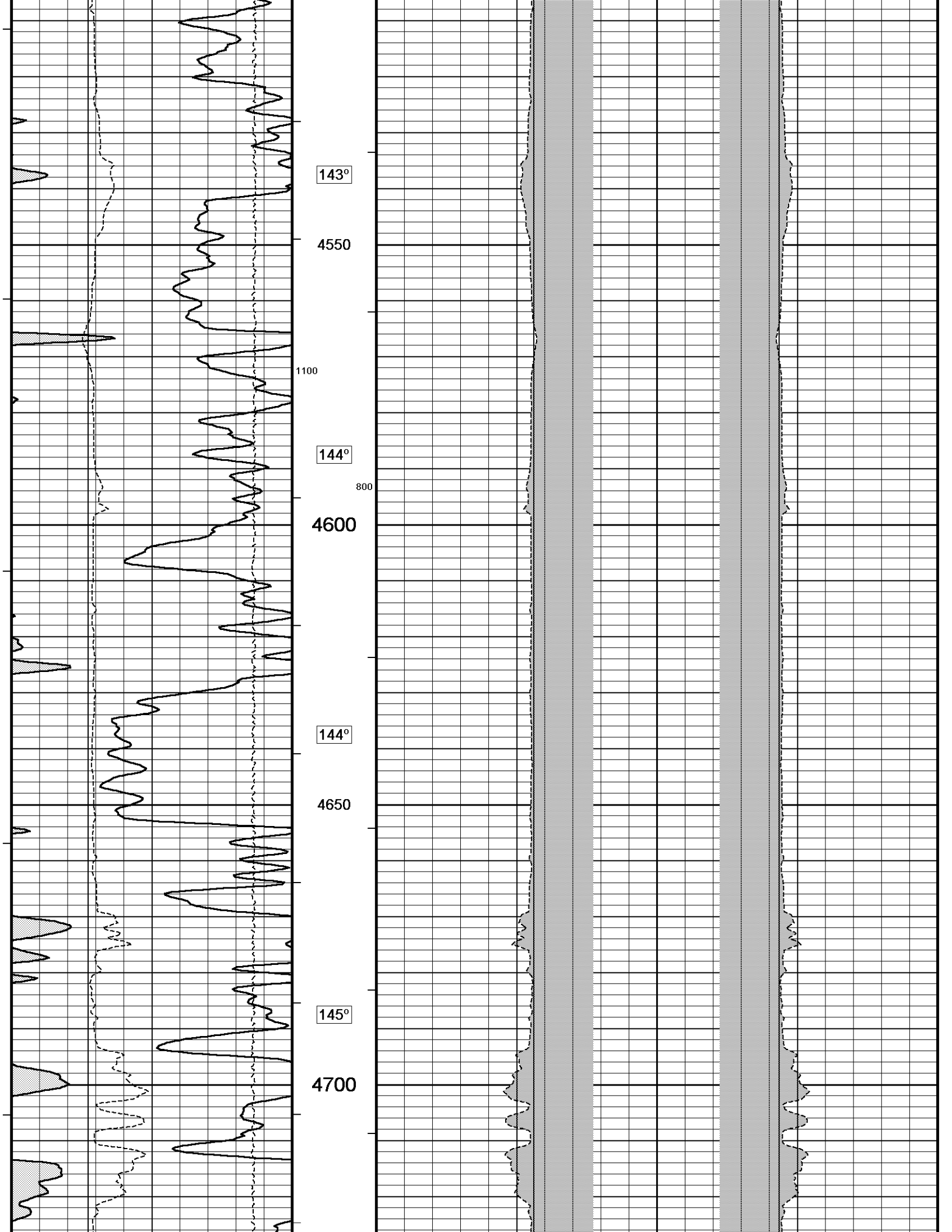
Bit Size →

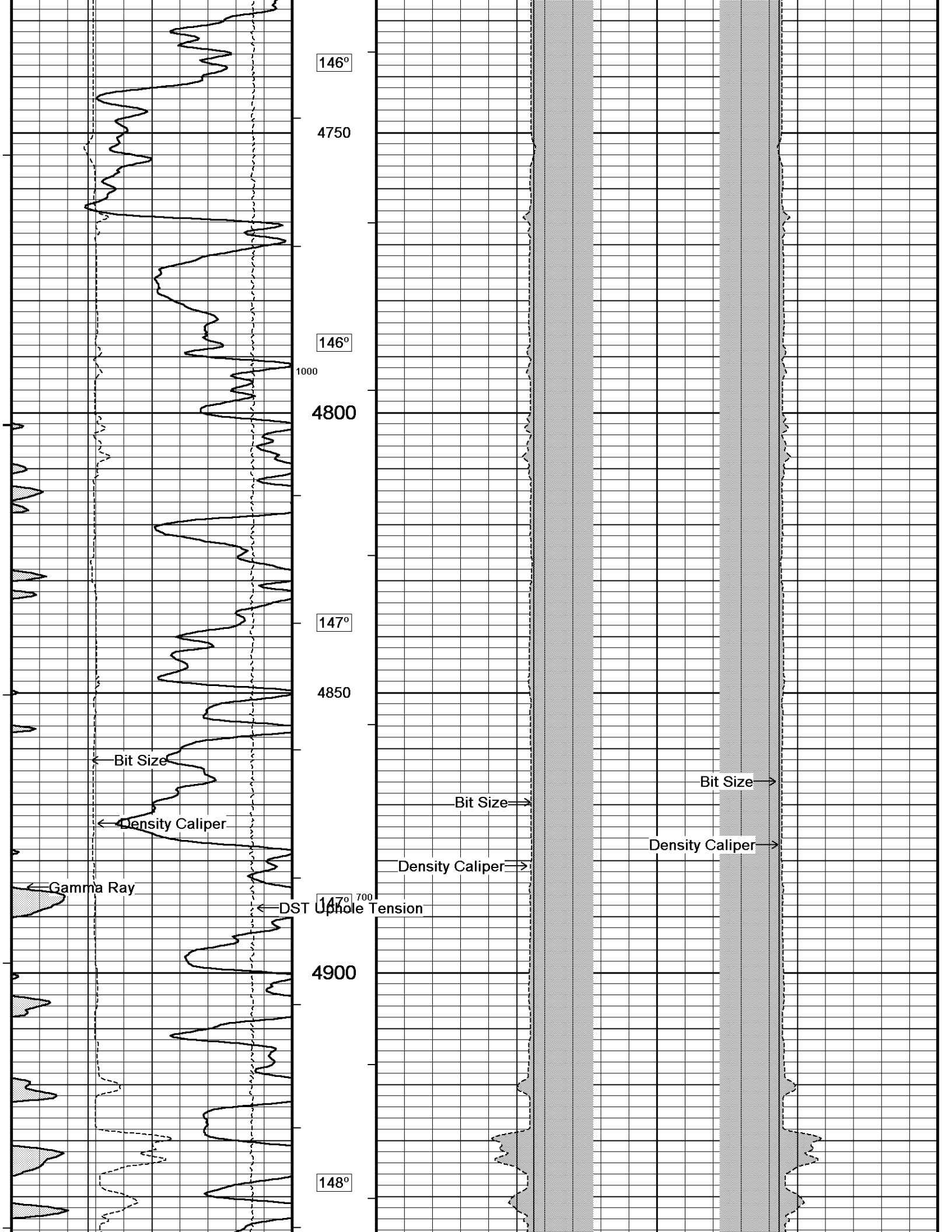
Density Caliper →

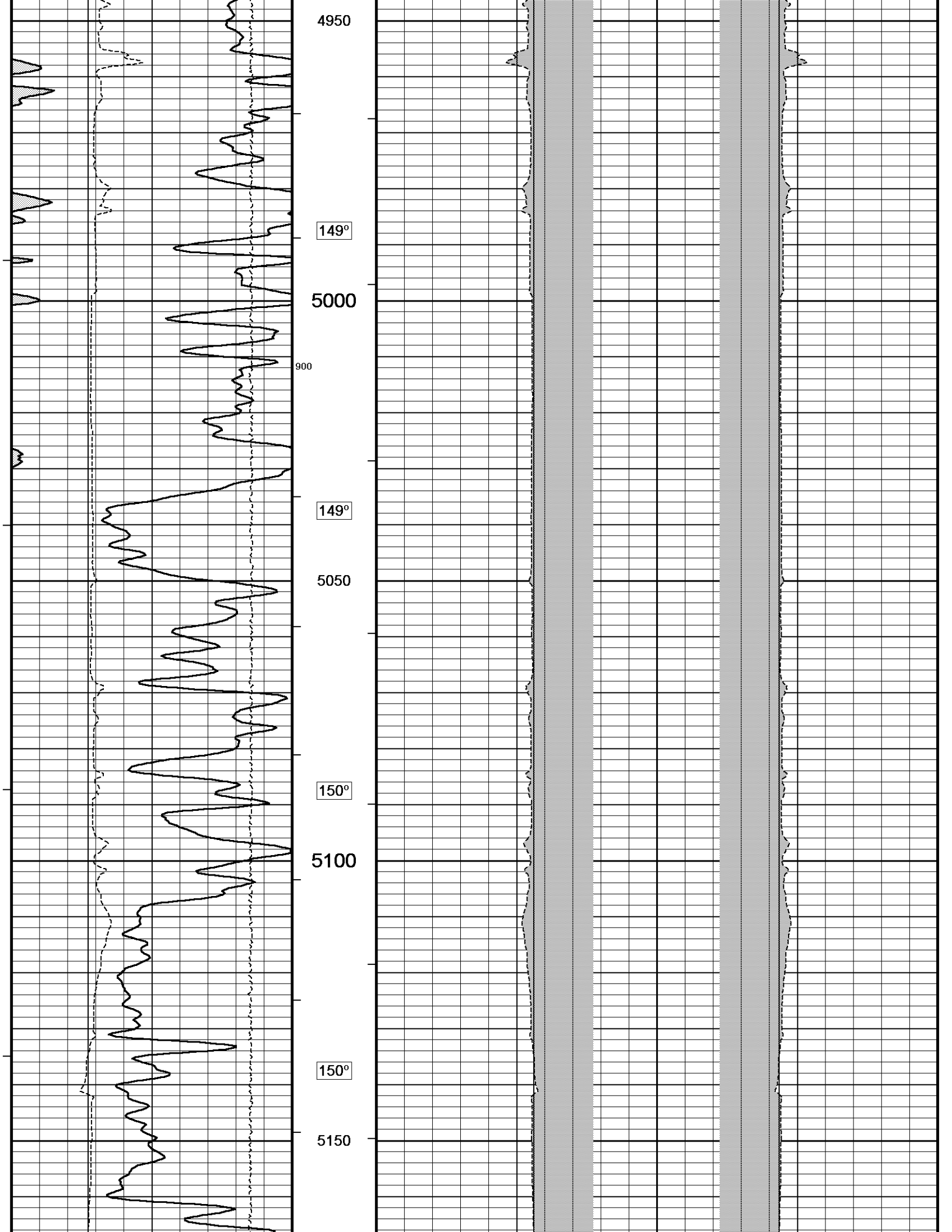
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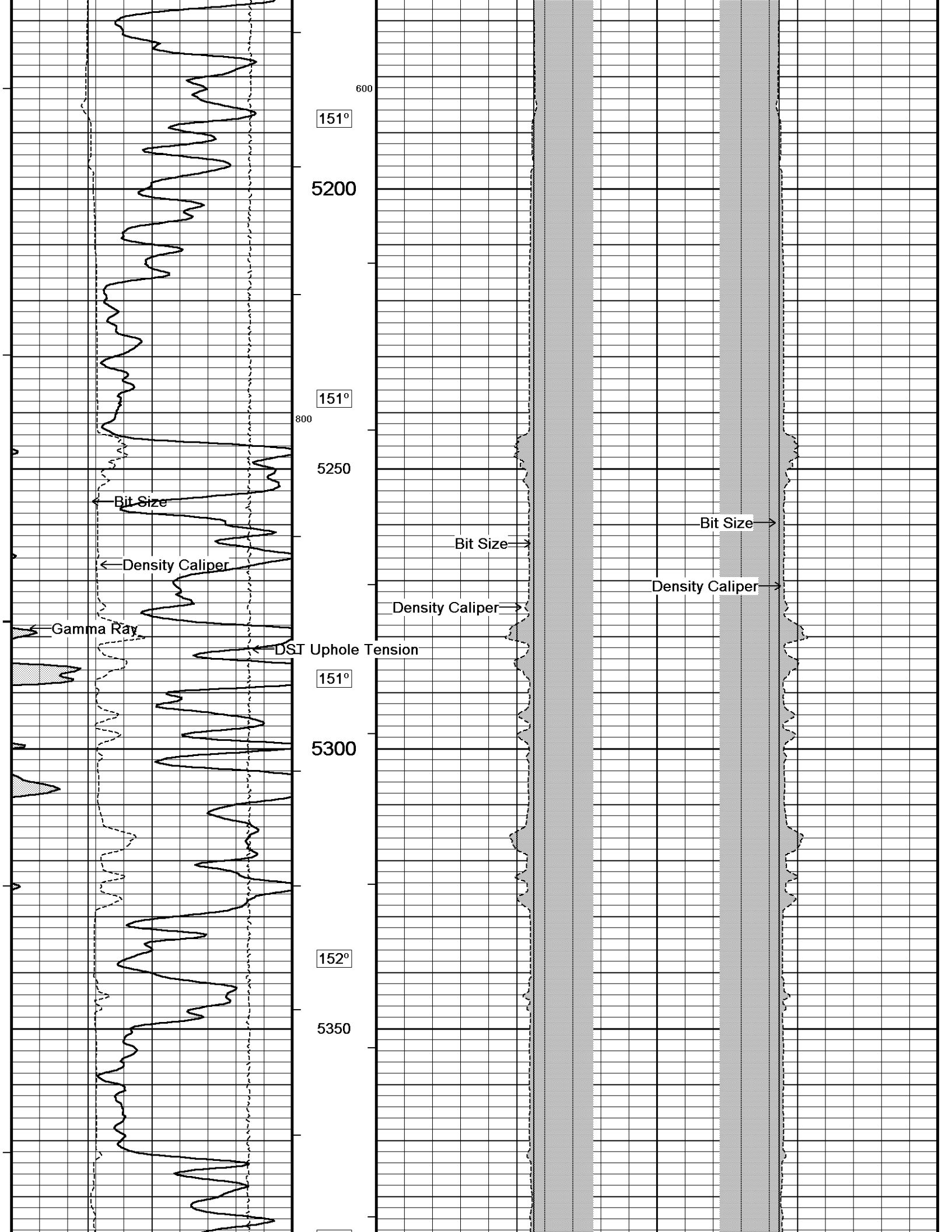
Density Caliper →

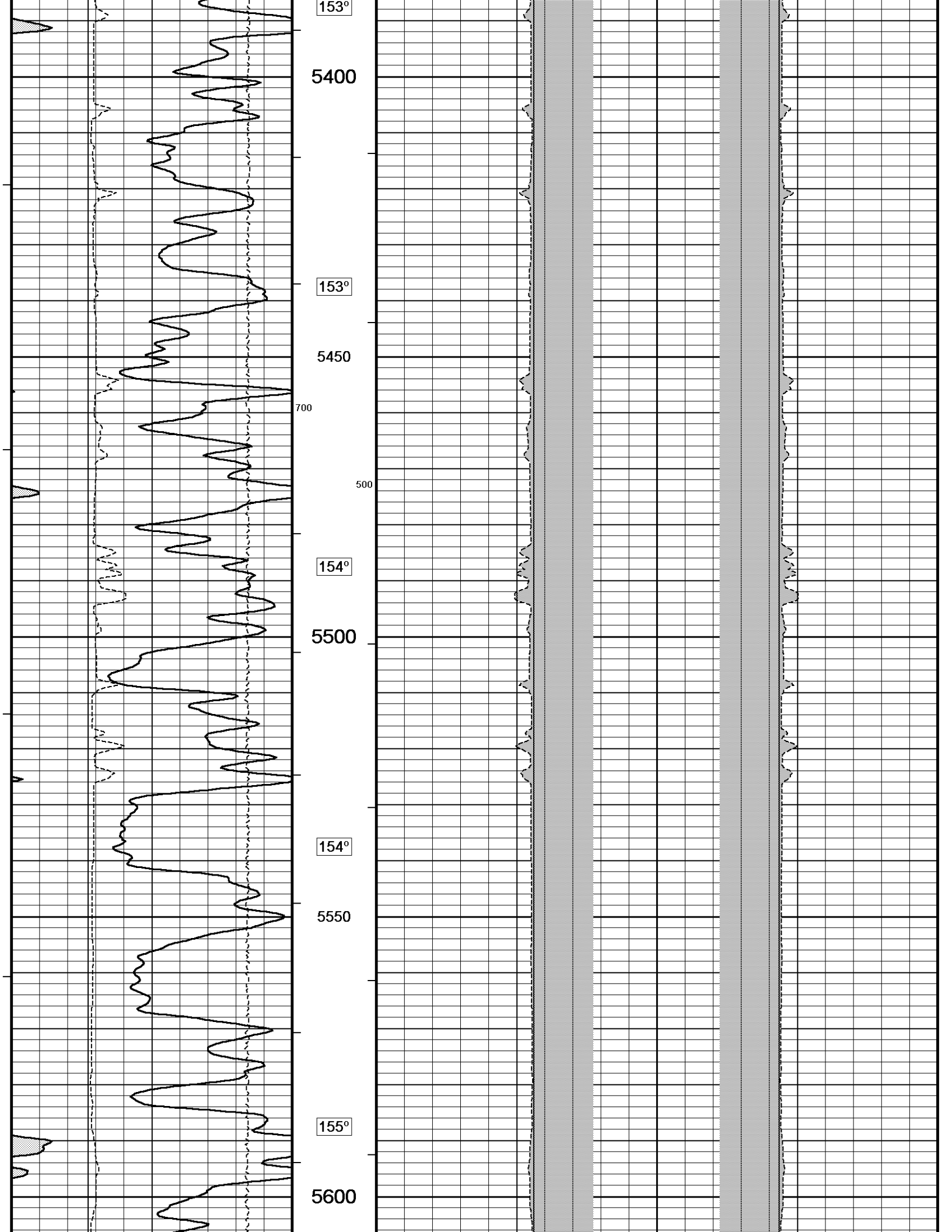


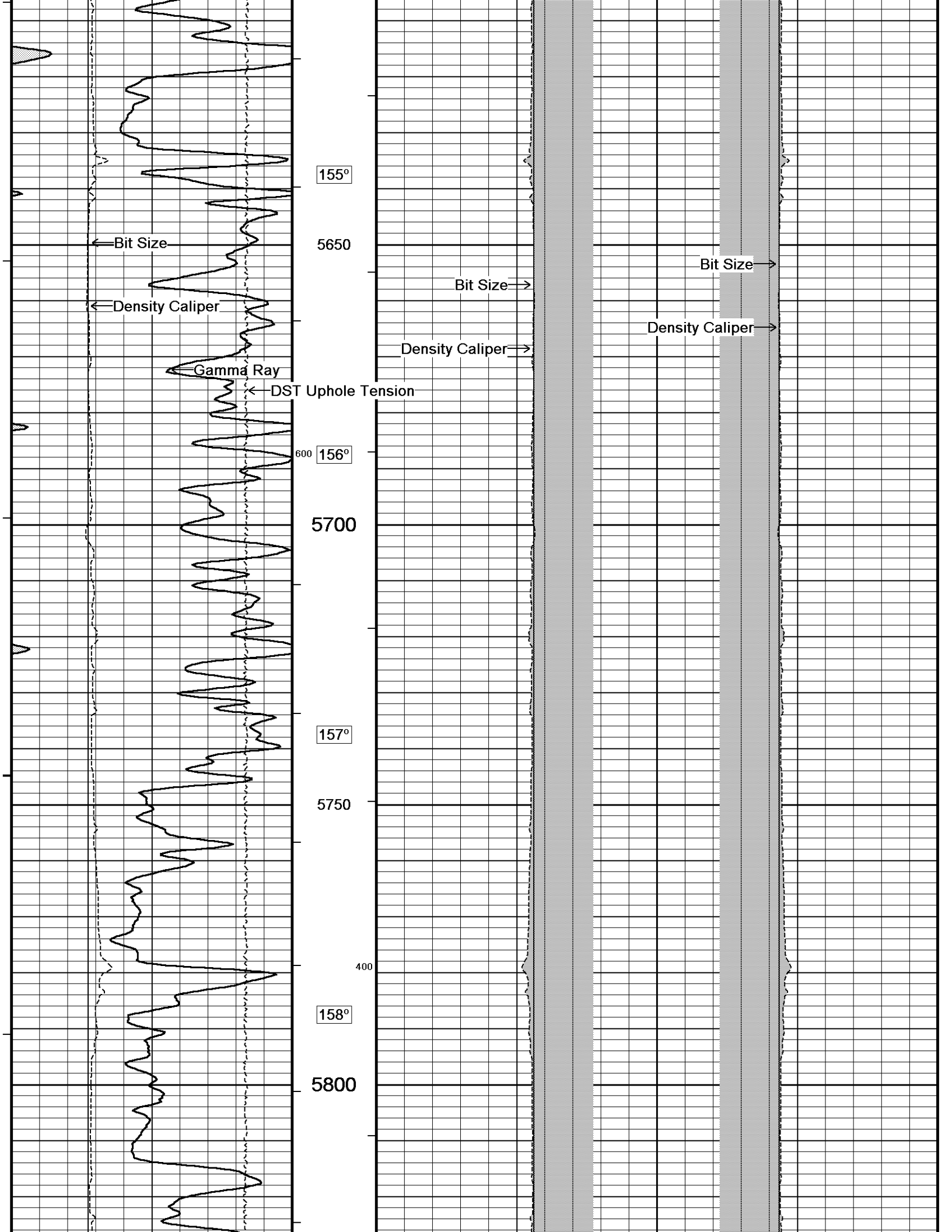


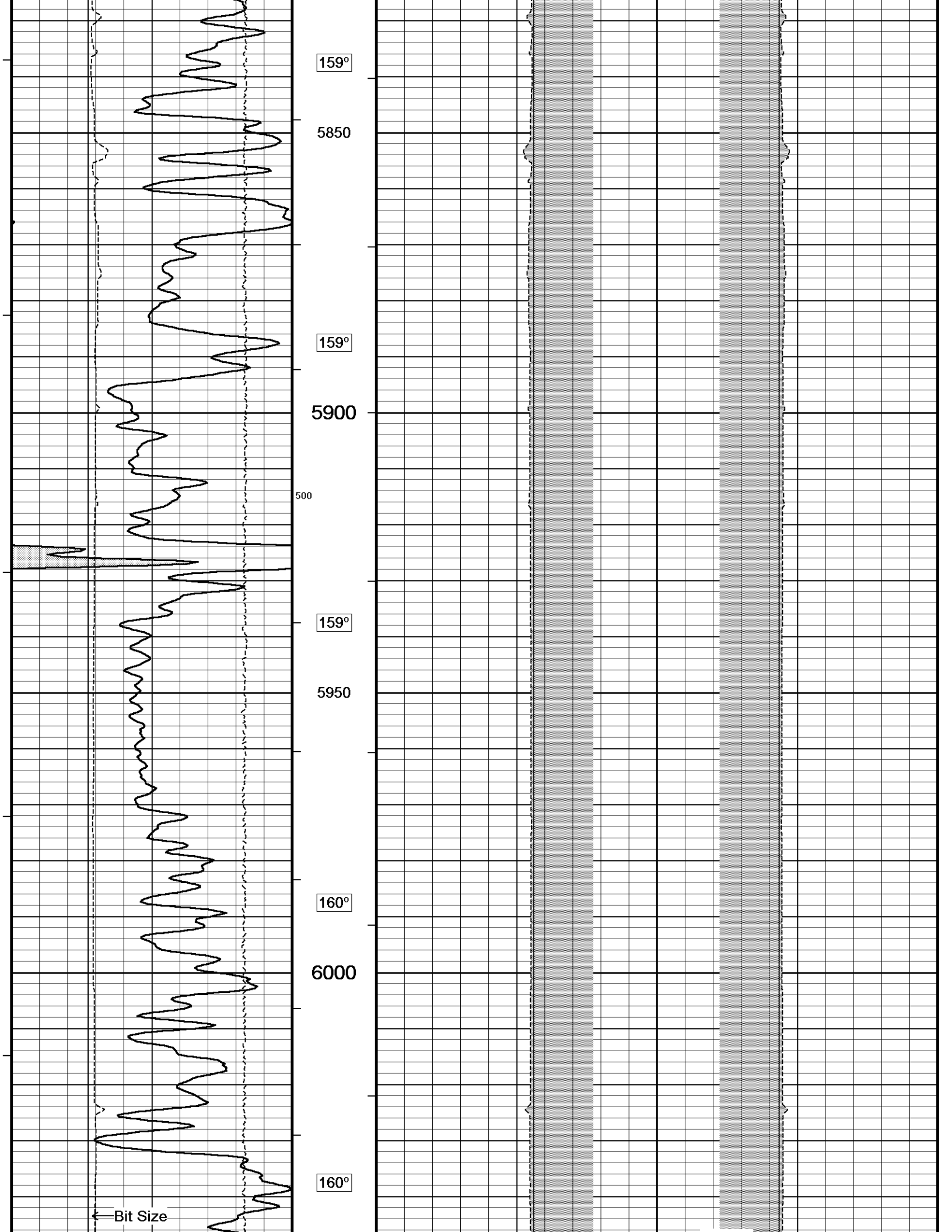












159°

5850

159°

5900

500

159°

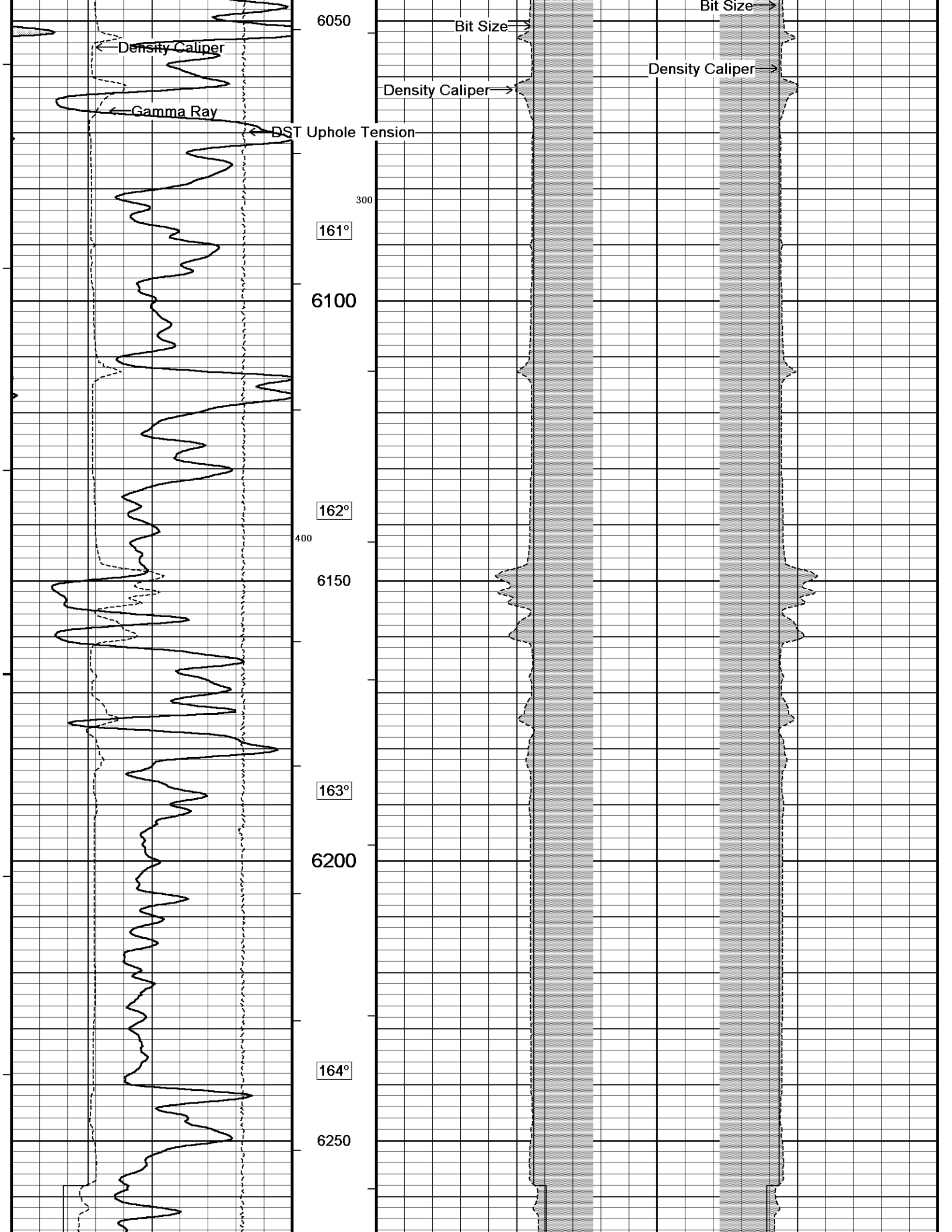
5950

160°

6000

160°

← Bit Size



6050

Bit Size

Density Caliper

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

300

161°

6100

162°

400

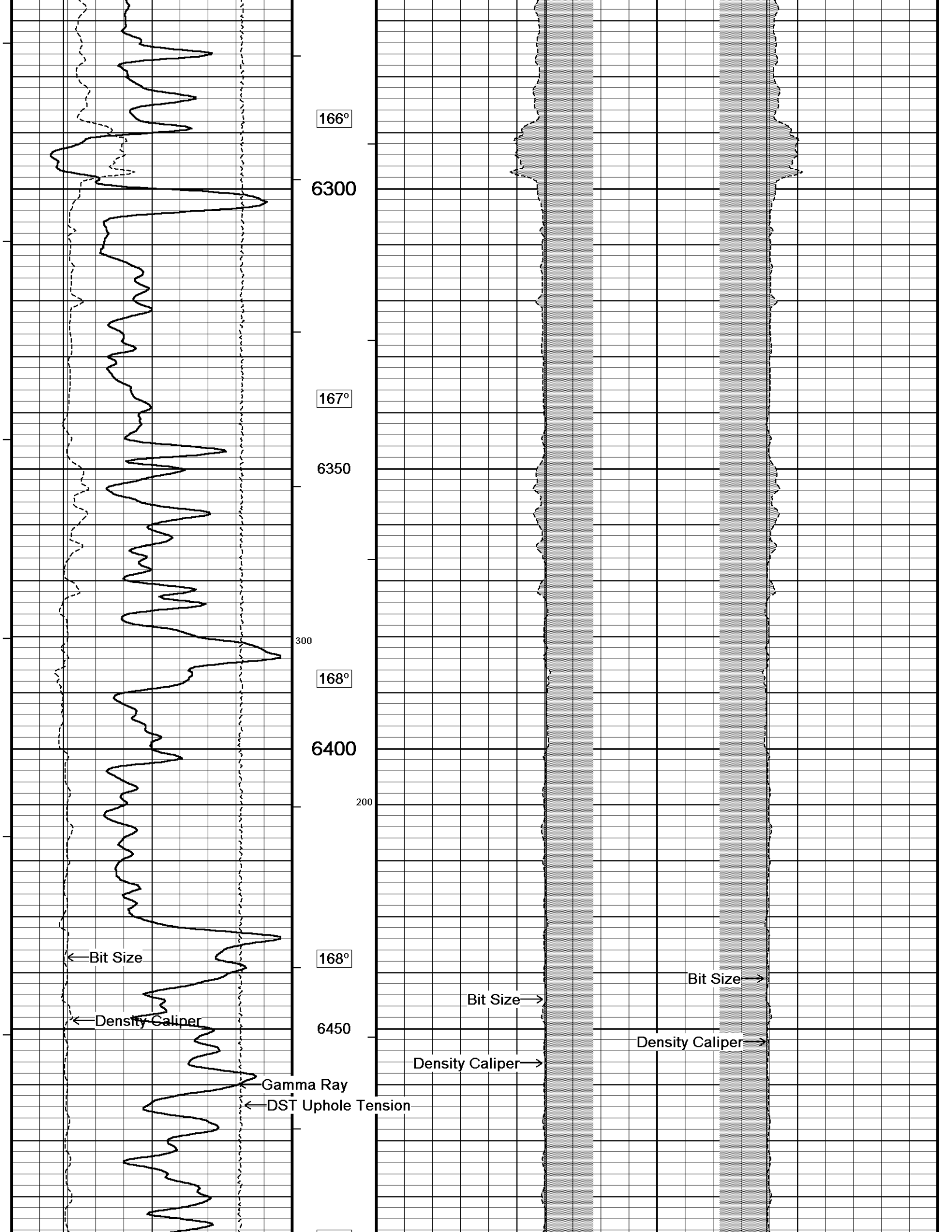
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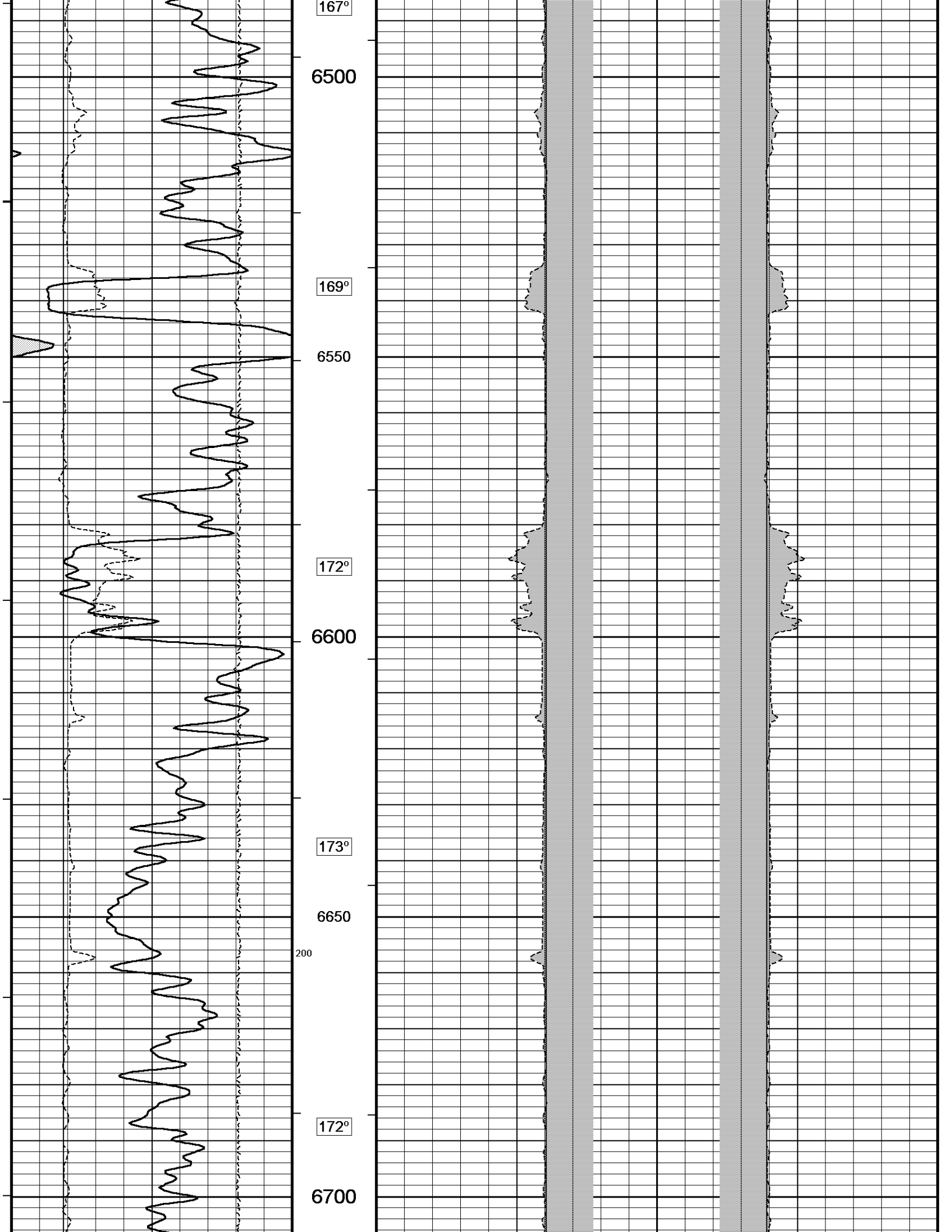
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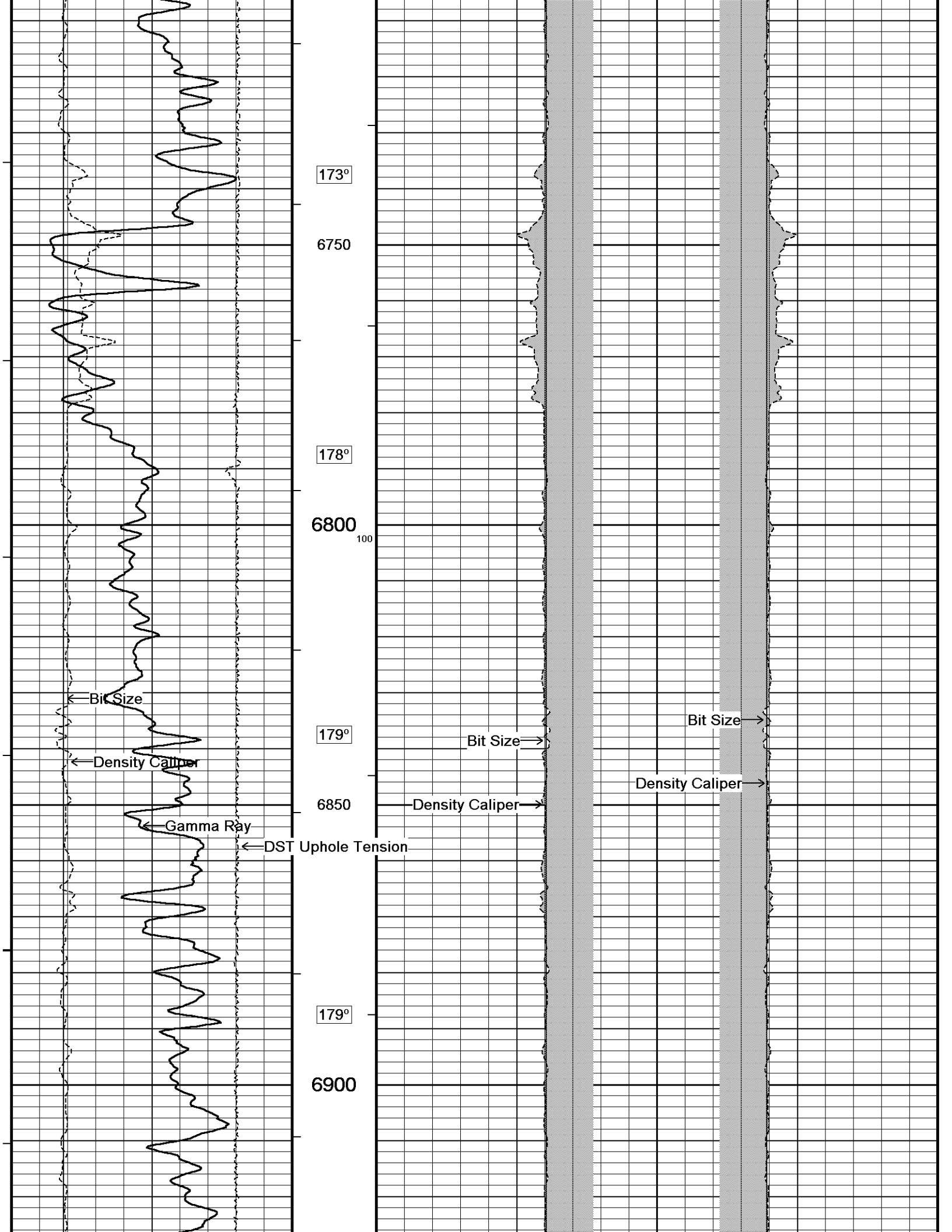
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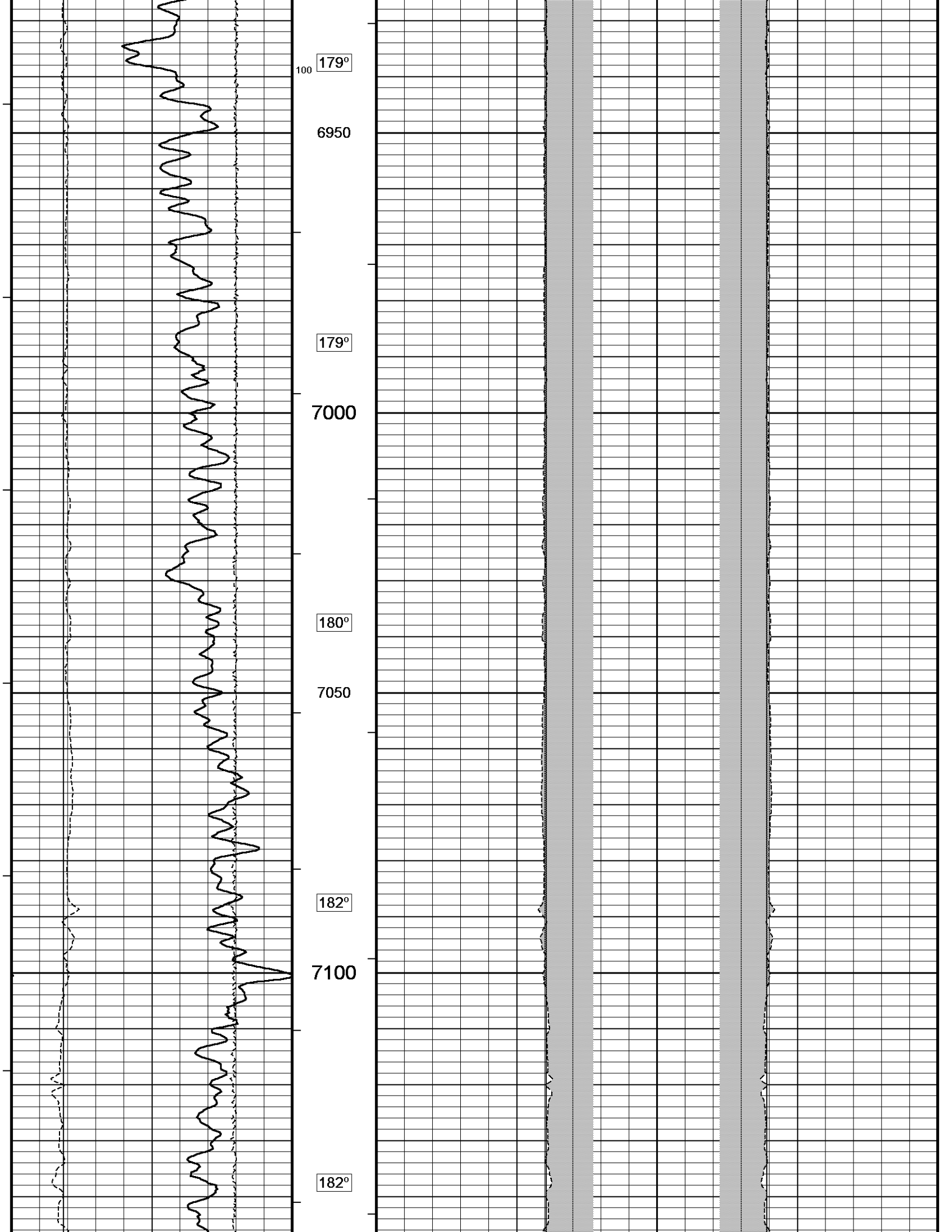
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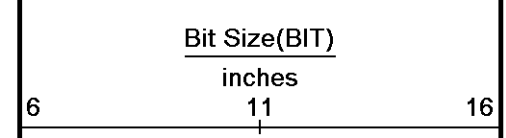
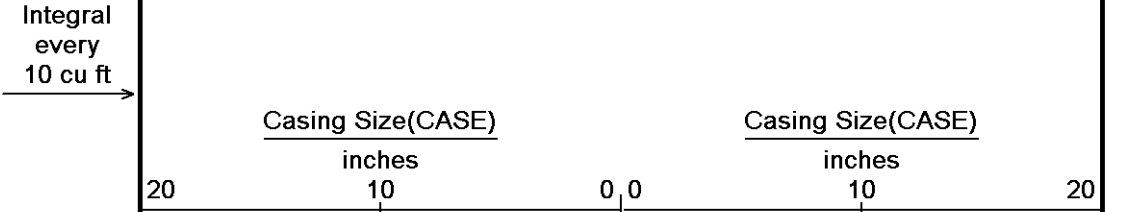
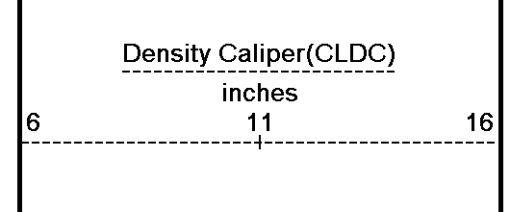
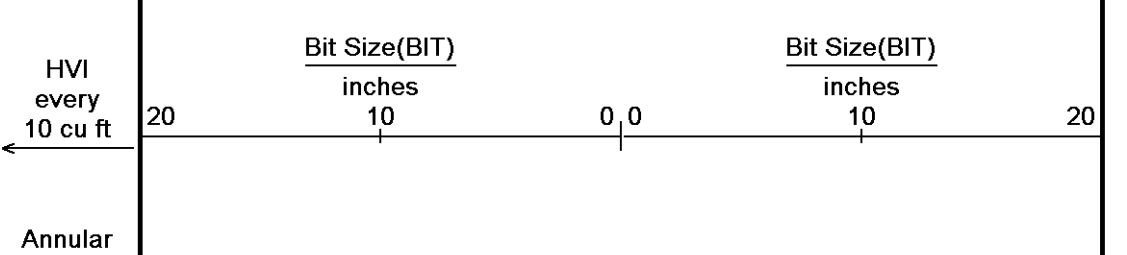
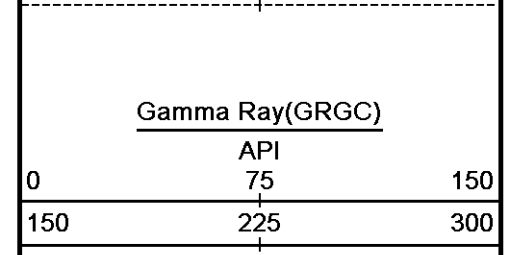
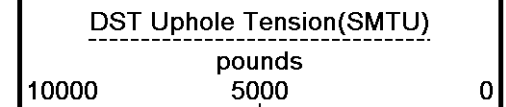
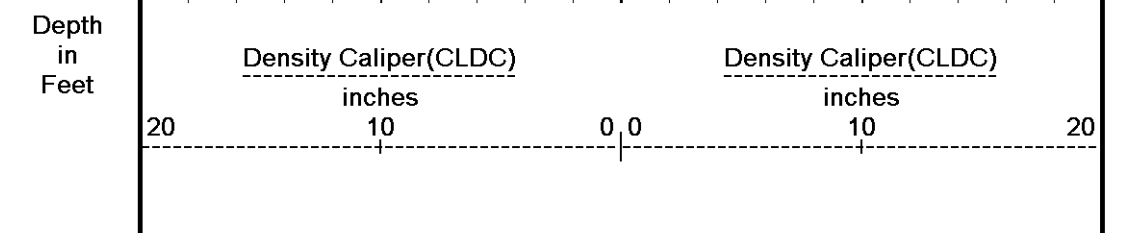
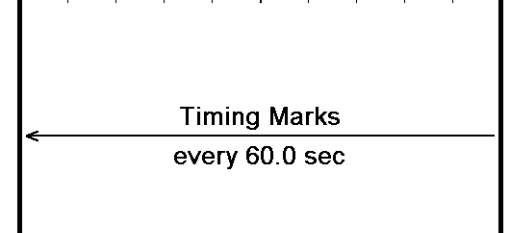
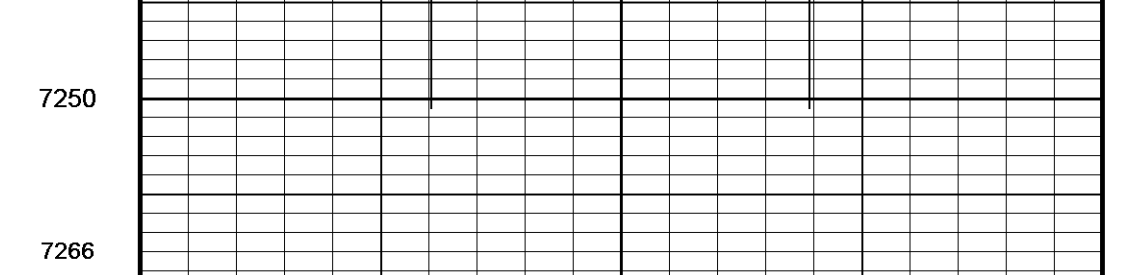
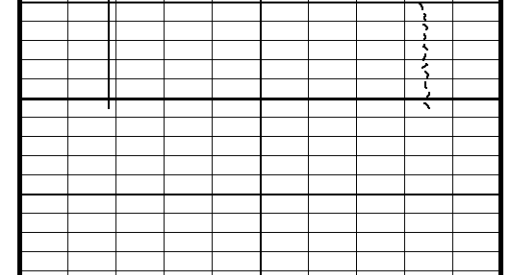
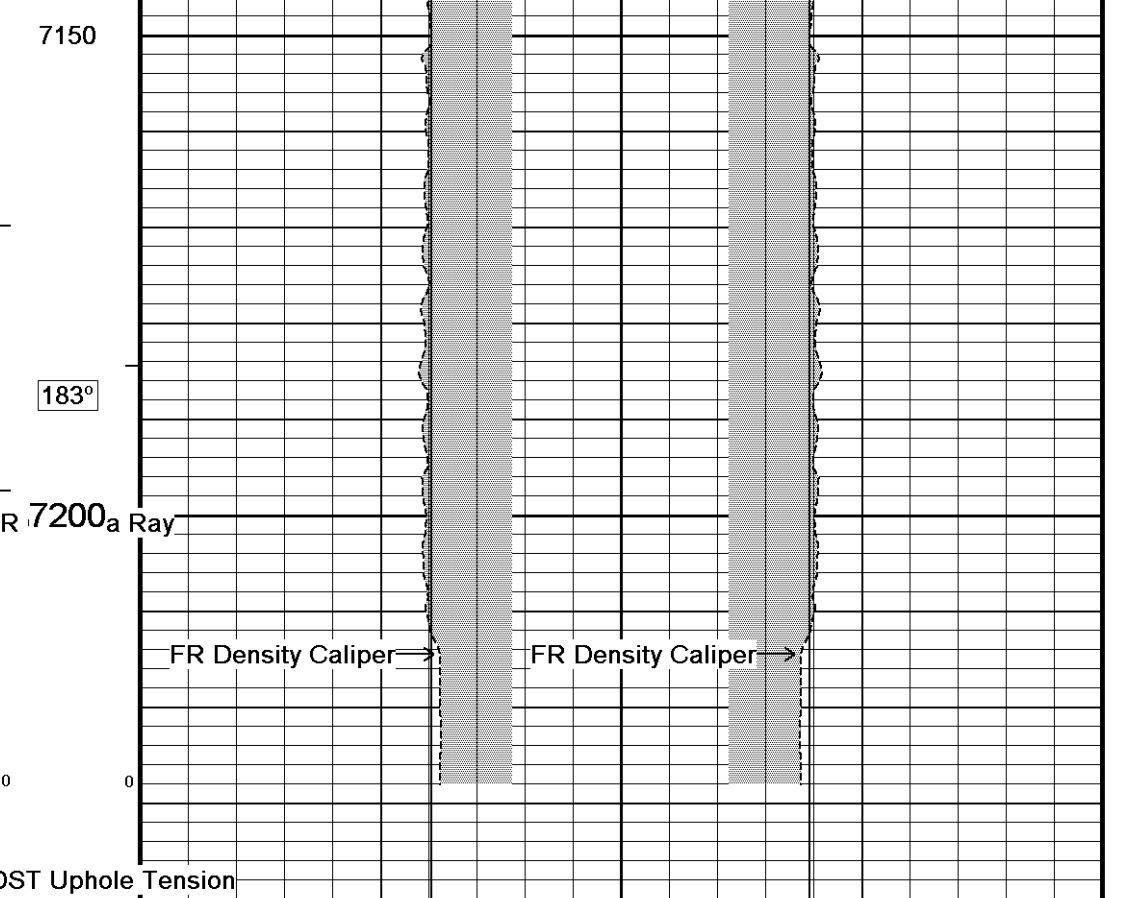
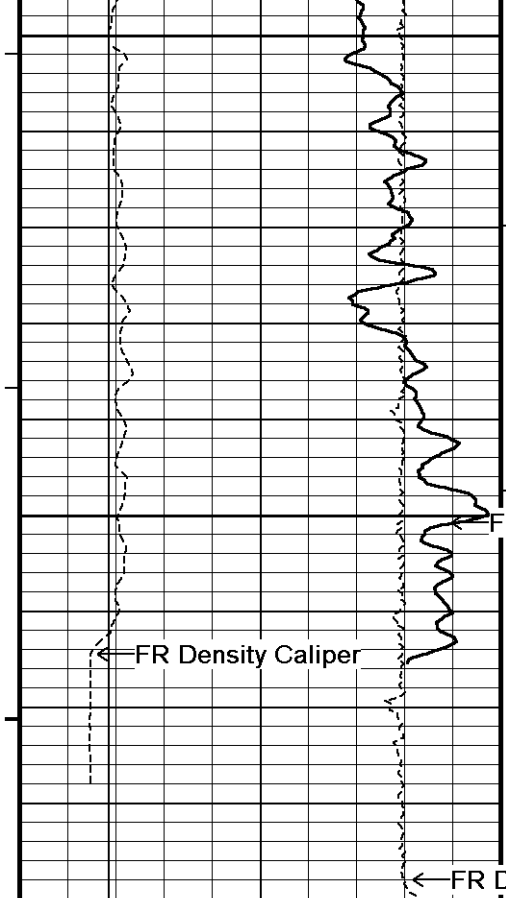
6250











5 INCH MAIN LOG

DOWNHOLE EQUIPMENT

C:\Minimus\LOGS\Bill Barrett\GGU Miller 13A-31-691\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

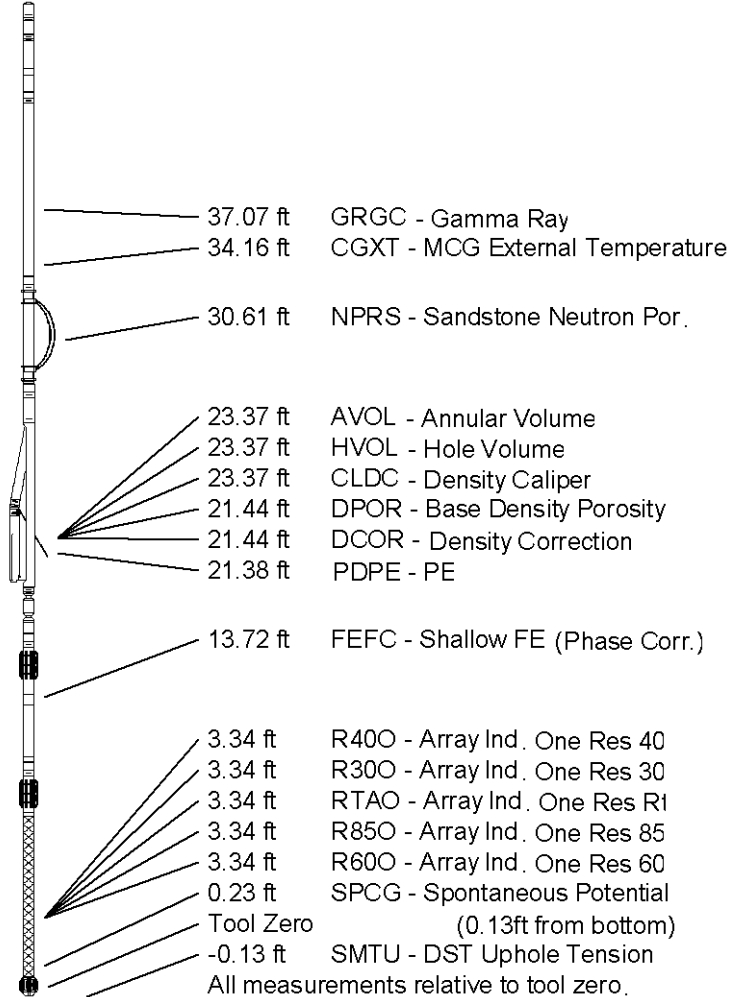
- Compact Density/Caliper
 MPD-C.A 220 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

- SKJ-D.A Compact Knuckle Joint
 SKJ-D.A 115 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

- Compact Focused 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 WT: 48.5 lb OD: 2.24 in

- Total Length: 46.67 ft Weight: 368.2 lb



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Elevation Kelly Bushing 6047.00 feet	First Reading 7216.00
Elevation Drill Floor 6046.00 feet	Depth Driller 7240.00 feet
Elevation Ground Level 6029.00 feet	Depth Logger 7238.00 feet



**HOLE VOLUME
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