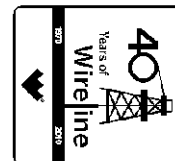




**Weatherford**

**HOLE VOLUME  
CALIPER  
LOG**

COMPANY **BILL BARRETT CORPORATION**  
WELL **MILLER FEDERAL 24B-31-691**  
FIELD **GIBSON GULCH**  
PROVINCE/COUNTY **GARFIELD**  
COUNTRY/STATE **U.S.A. / COLORADO**  
LOCATION **SHL: 8' FNL & 2444' FEL**  
**BHL: 490' FSL & 1998' FWL**



SEC	TWP	RGE	Other Services	
31	6S	91W	MPD/MDN	
API Number		05-045-18658		MAI/MFE
Permit Number				
Permanent Datum G.L., Elevation 6266 feet				
Log Measured From K.B. @ 22 FEET above Permanent Datum				
Drilling Measured From K.B.				
Date	18-DEC-2010		Elevations: feet	
Run Number	ONE		KB	6288.00
Depth Driller	7340.00	feet	DF	6287.00
Depth Logger	7349.00	feet	GL	6266.00
First Reading	7326.00			
Last Reading	793.00			
Casing Driller	793.00	feet		
Casing Logger	793.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	LSND			
Density / Viscosity	10.30 lb/USg	48.00 CP		
PH / Fluid Loss	10.10	7.20 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	2.25 @ 91.5	ohm-m		
Rmf @ Measured Temp	1.80 @ 91.5	ohm-m		
Rmc @ Measured Temp	2.70 @ 91.5	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.22 @ 171.0	ohm-m		
Time Since Circulation	4 HOURS			
Max Recorded Temp	171.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13045	GD JCT		
Recorded By	J.GARCIA		SLACKEY	
Witnessed By	R.SCHULTZ			

BOREHOLE RECORD			Last Edited: 18-DEC-2010 16:26
Bit Size inches	Depth From feet	Depth To feet	
8.750	793.00	4956.00	
7.880	4956.00	7349.00	
CASING RECORD			
Type	Size inches	Depth From feet	Shoe Depth feet
SURFACE	9.625	0.00	793.00
Weight pounds/ft			
36.00			

REMARKS	
TOOLS: SHA, MCG, MDN, MPD, SKJ, MFE AND MAI RAN IN COMBINATION	
HARDWARE: MPD: (1) 8 INCH PROFILE PLATE MAI: (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.	
8.75 INCH BIT USED FROM SURFACE CASING TO 4936 FEET.	
CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.95" (9 5/8", 36 LB/FT CASING)	
TOTAL HOLE VOLUME FROM TD TO SURFACE CASING =2650 CU FT	

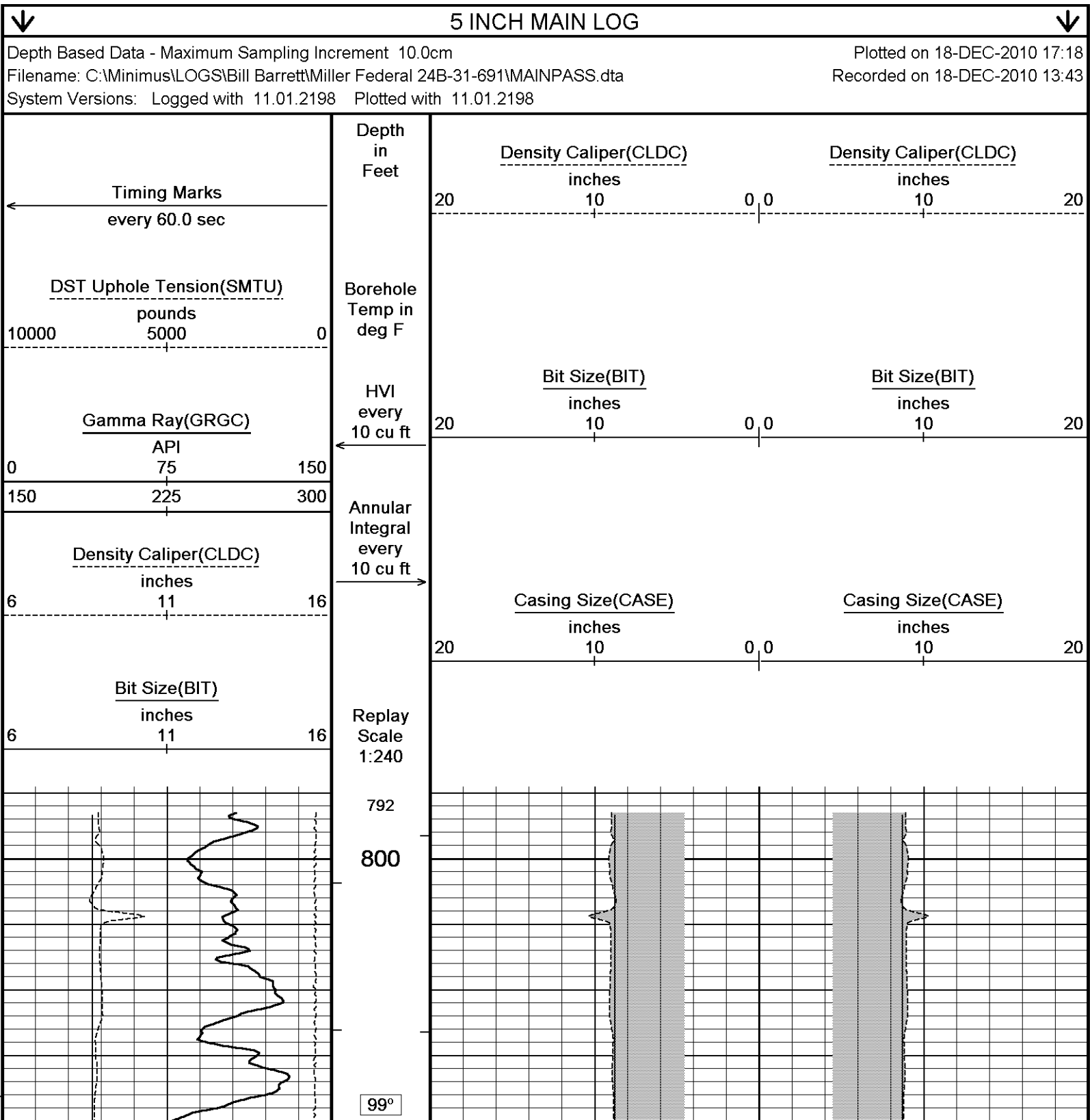
STRAIGHT HOLE VOLUME FROM TD TO SURFACE CASING = 2030 CU.FT.

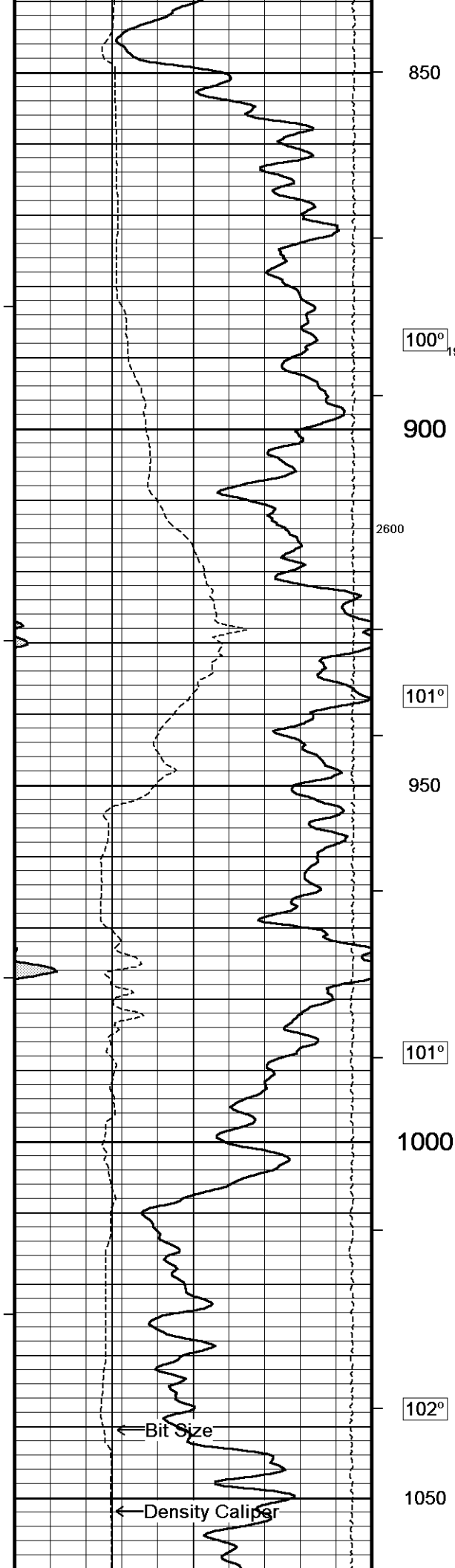
ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1930 CU.FT.

SERVICE ORDER: #3526209

RIG: PATTERSON #313

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.





100°  
1900

900

2600

101°

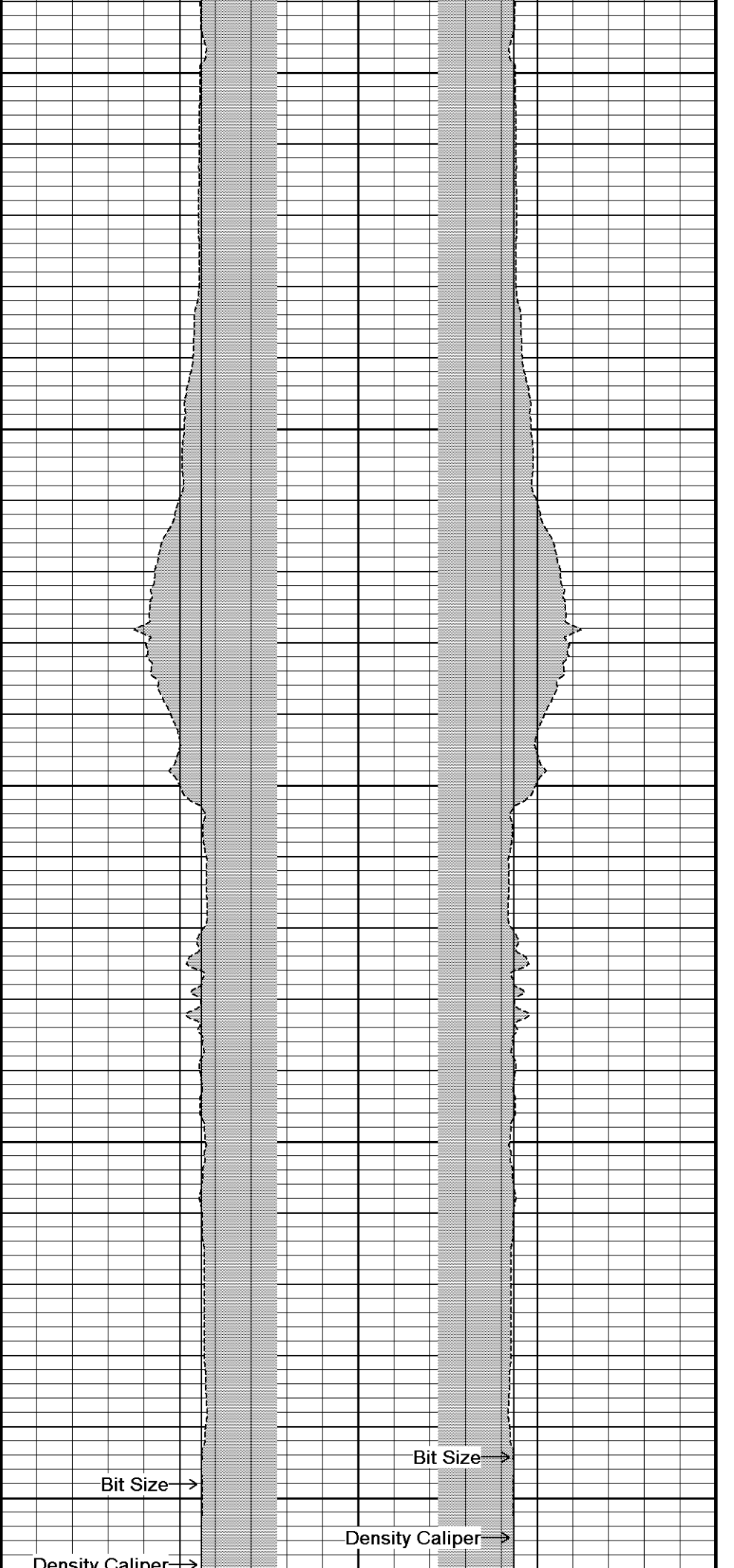
950

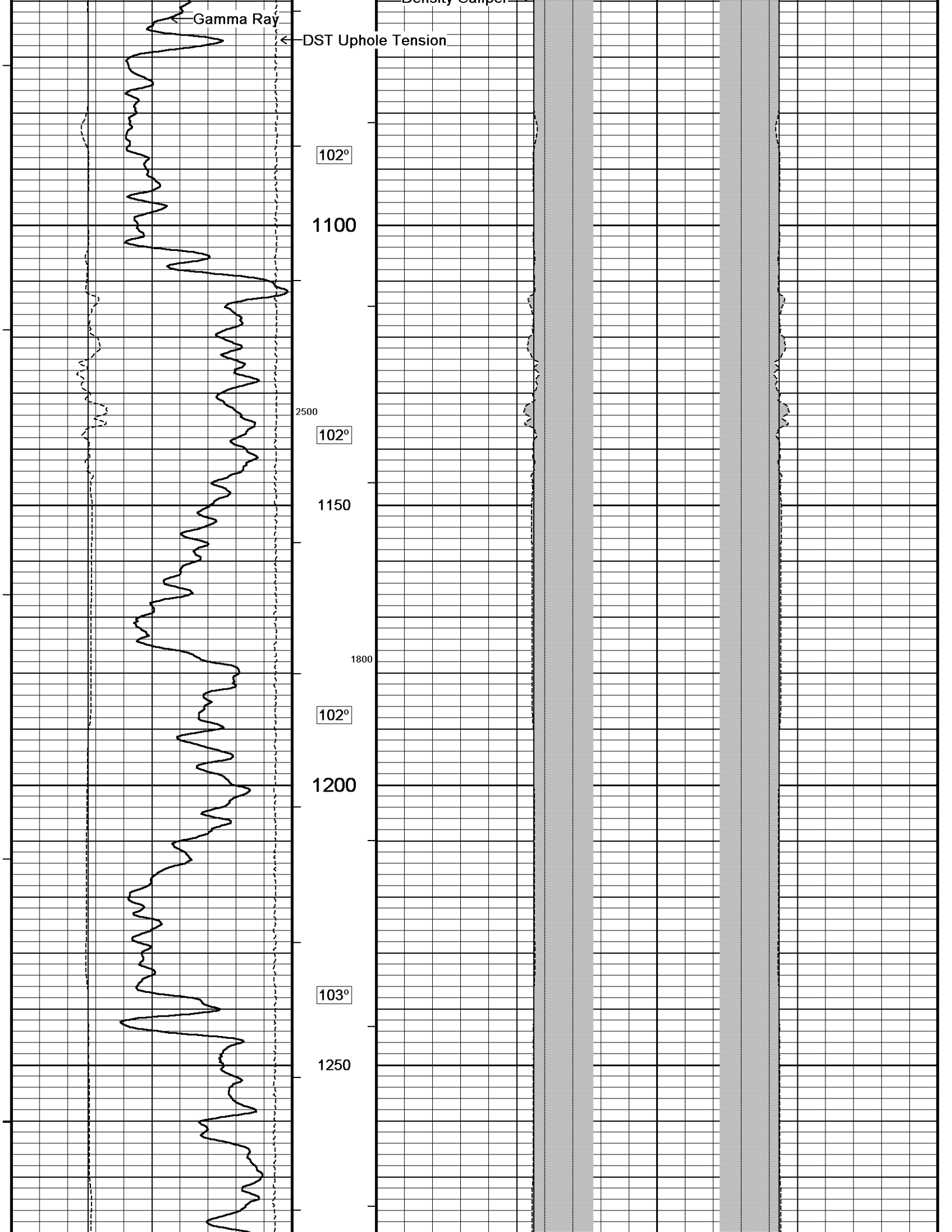
101°

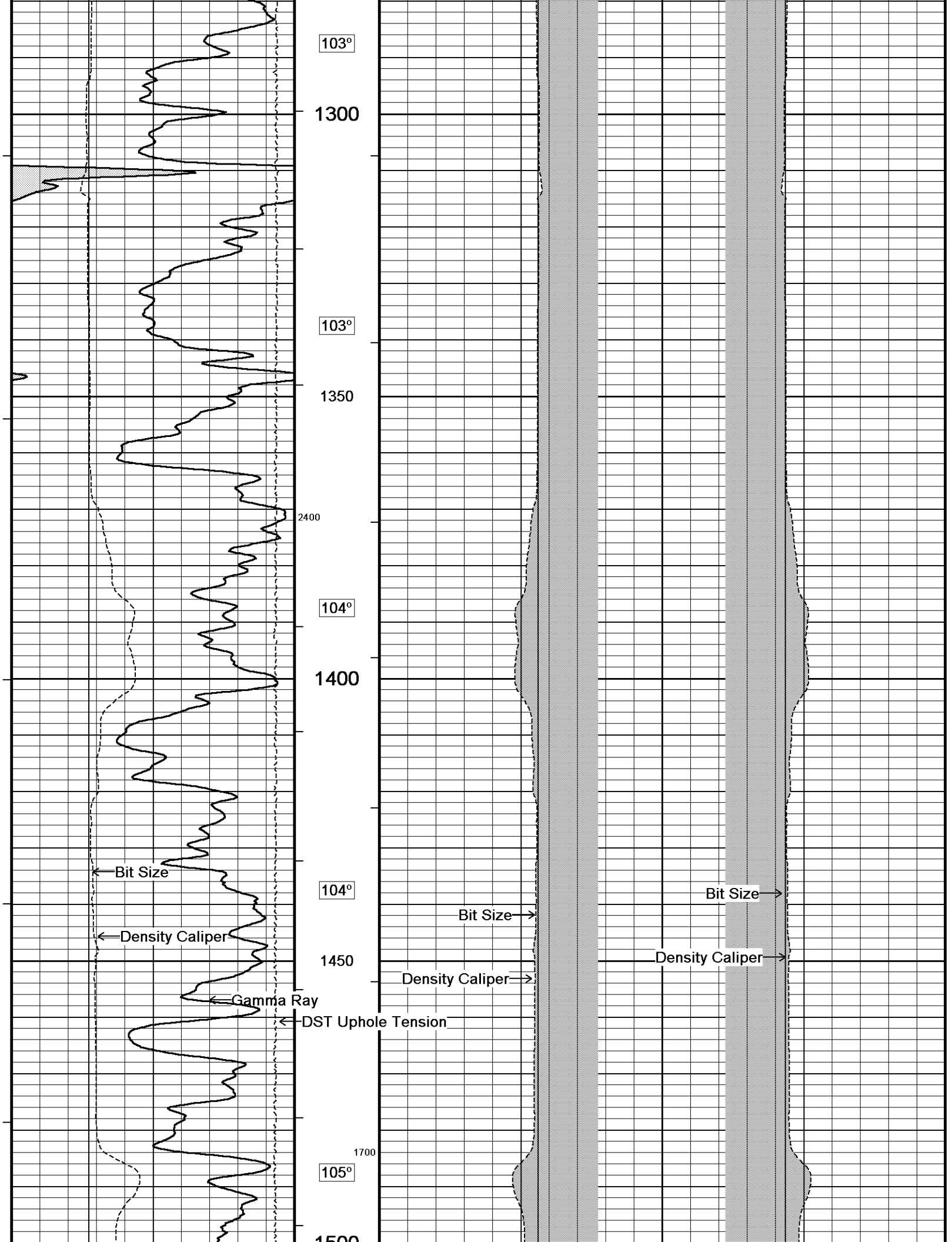
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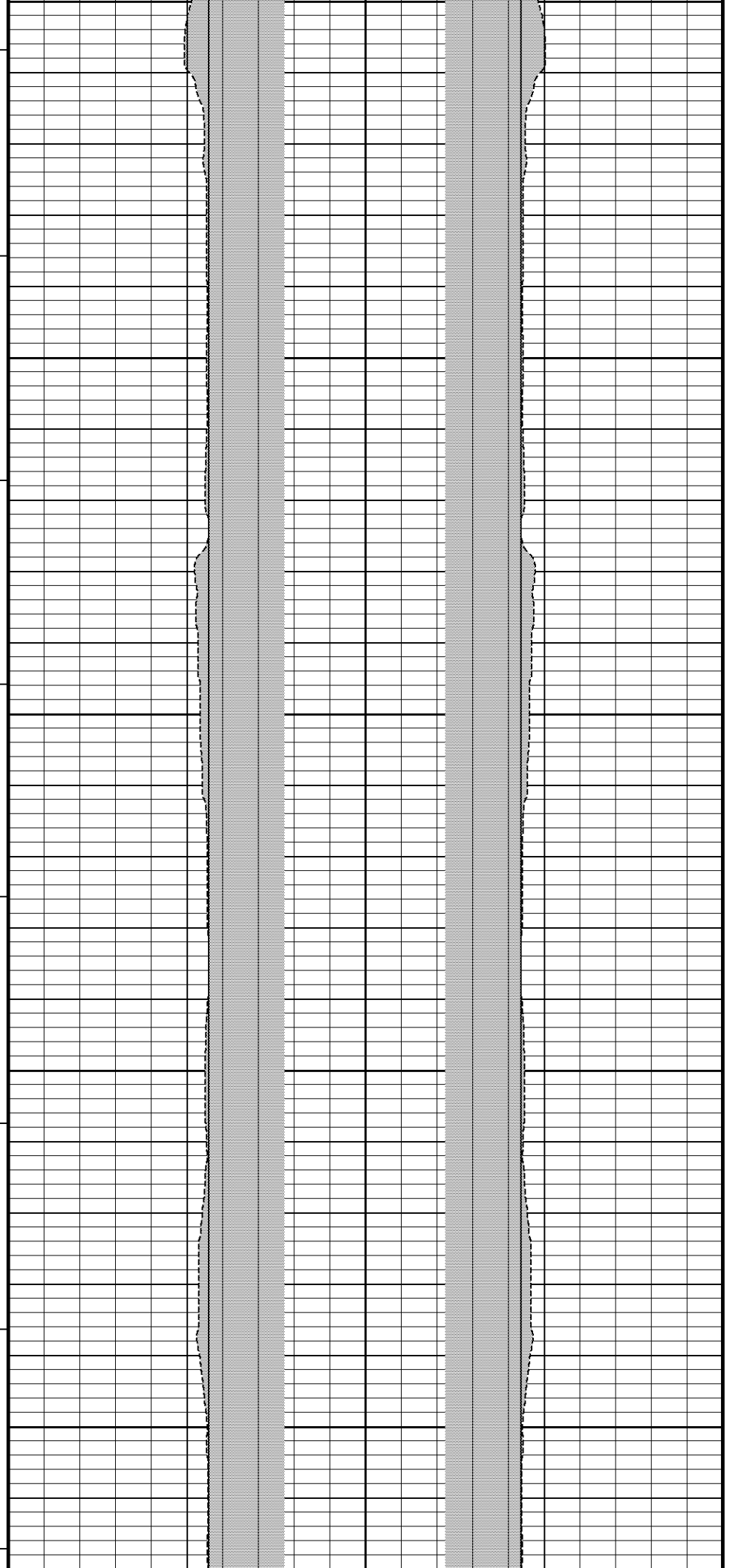
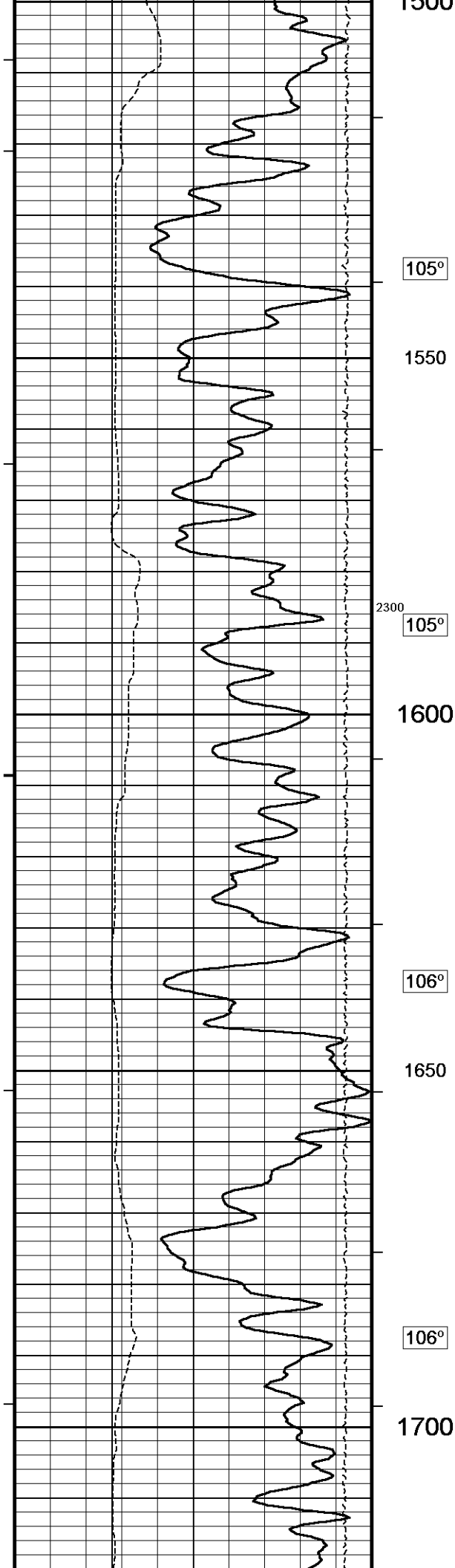
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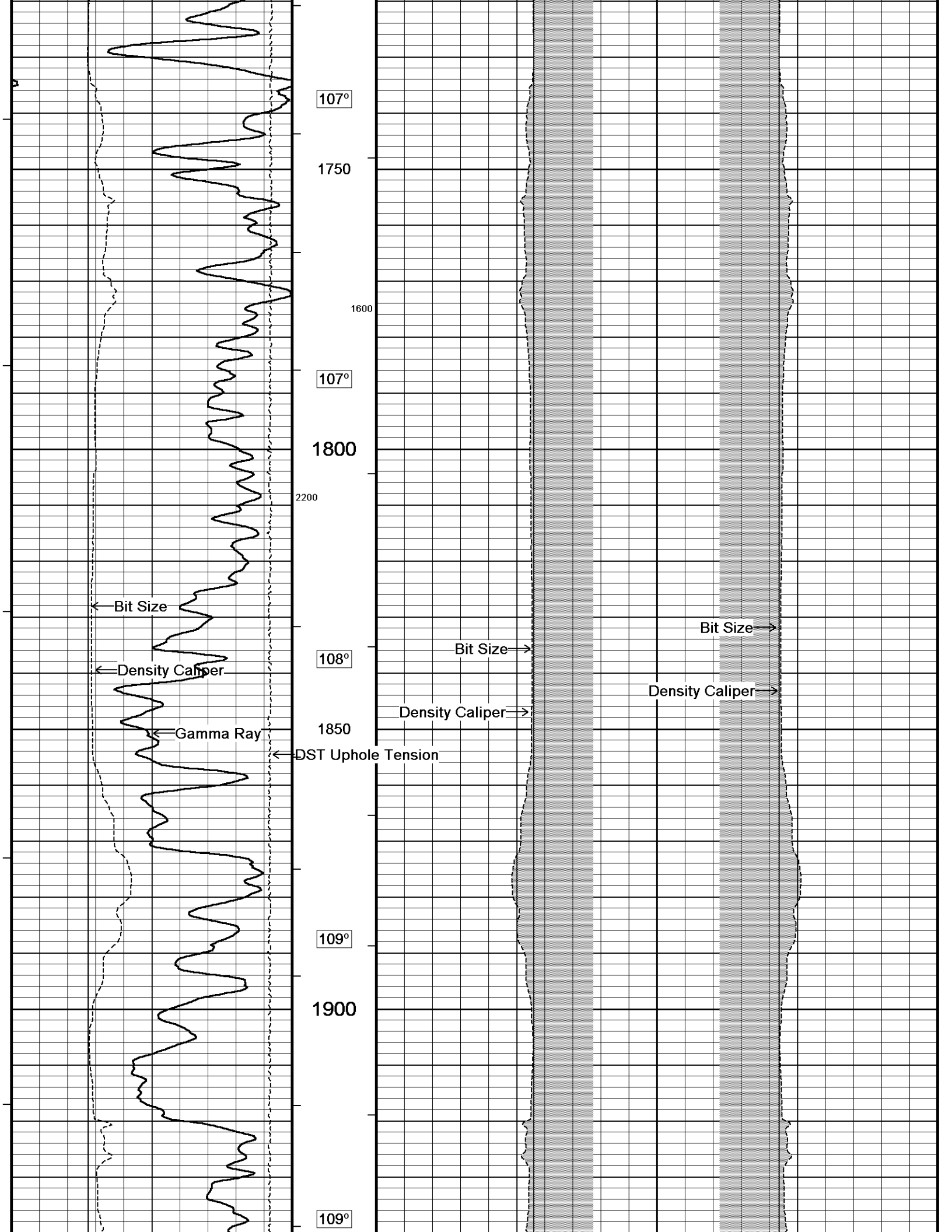
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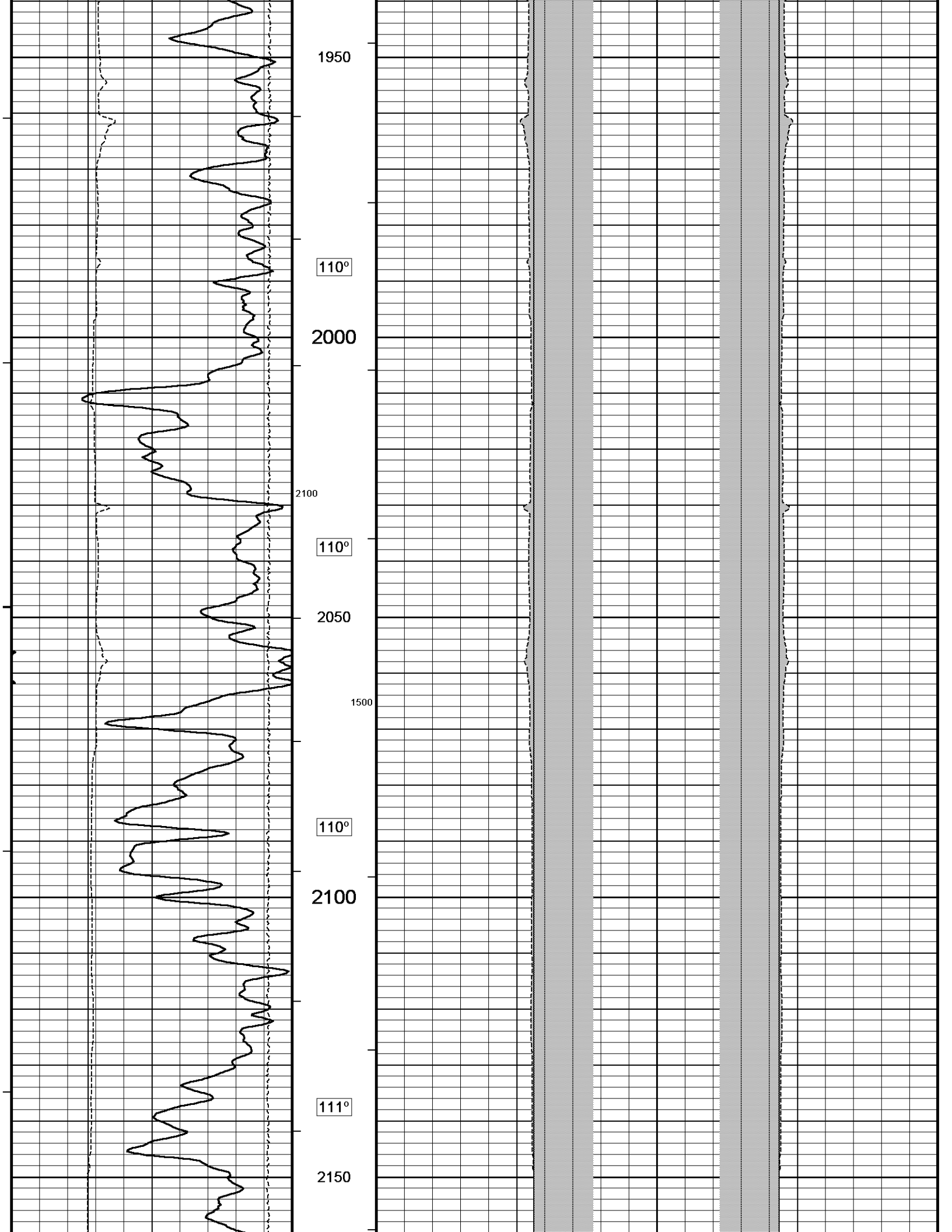




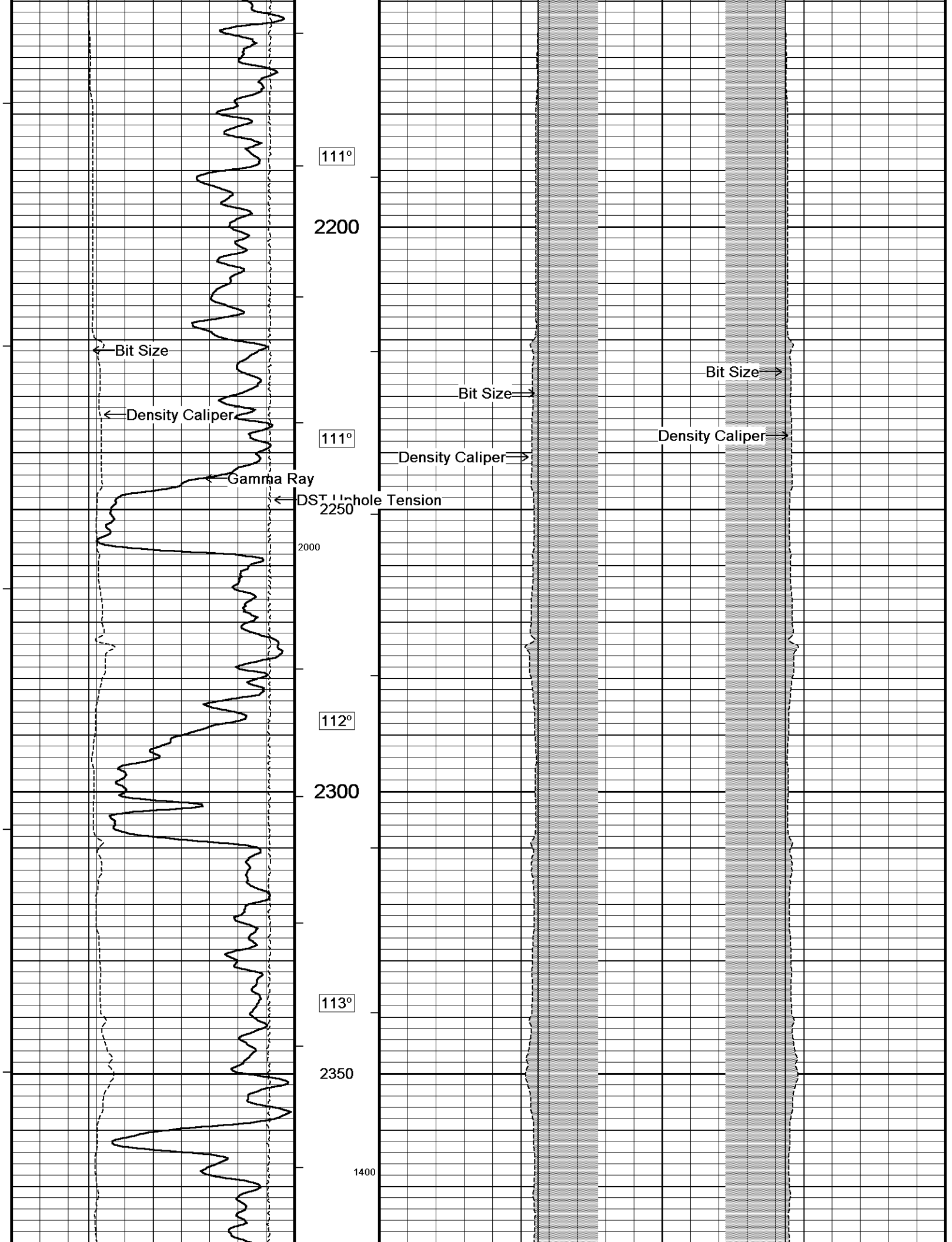


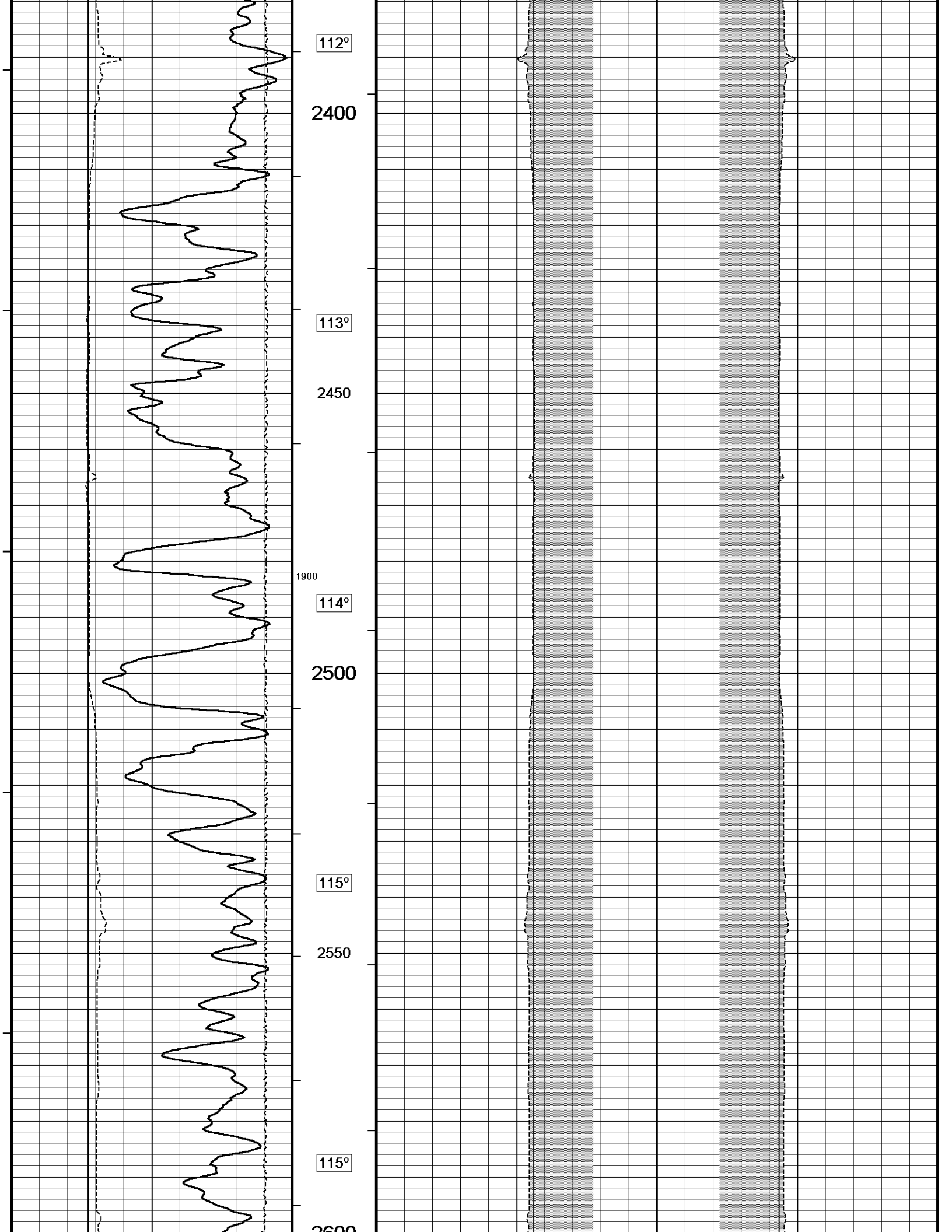


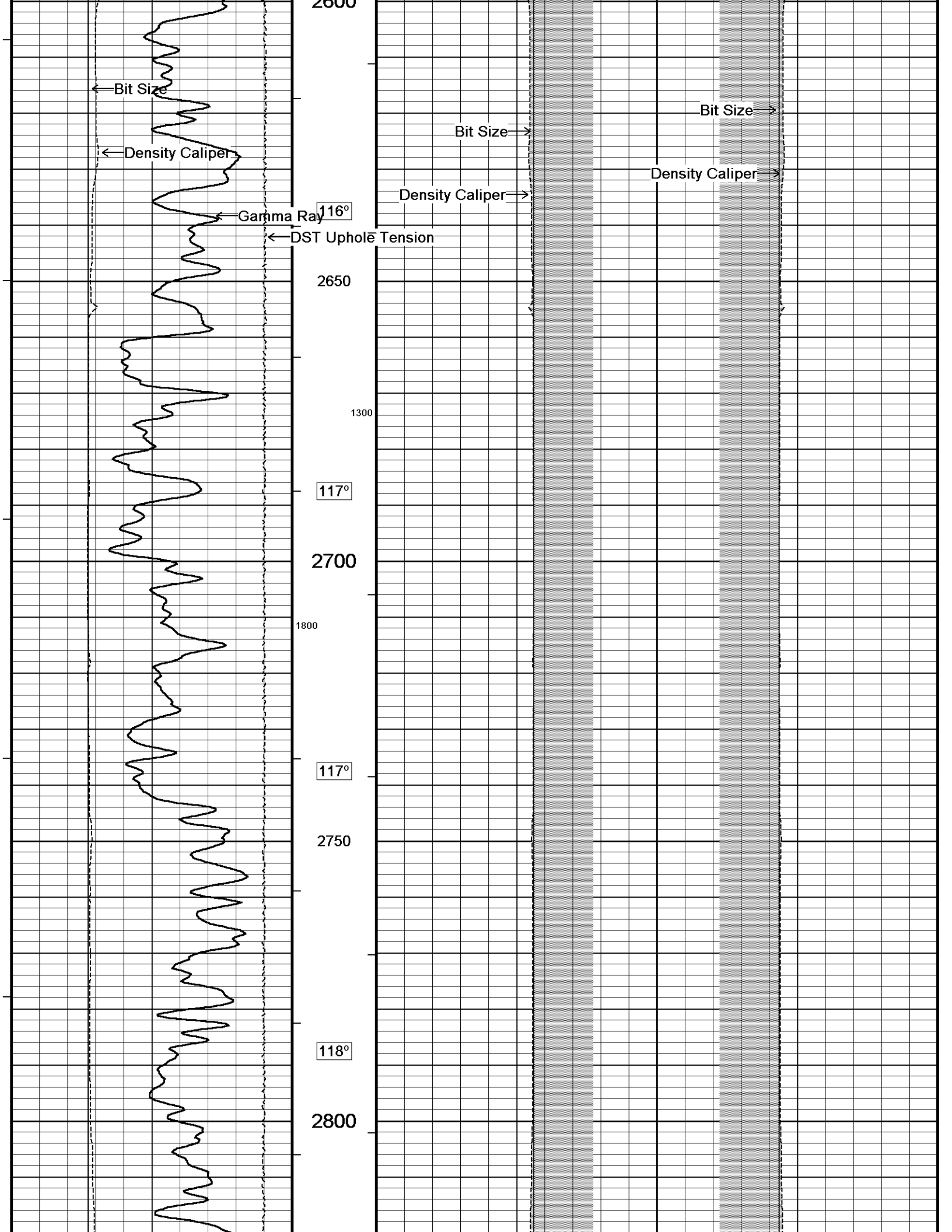


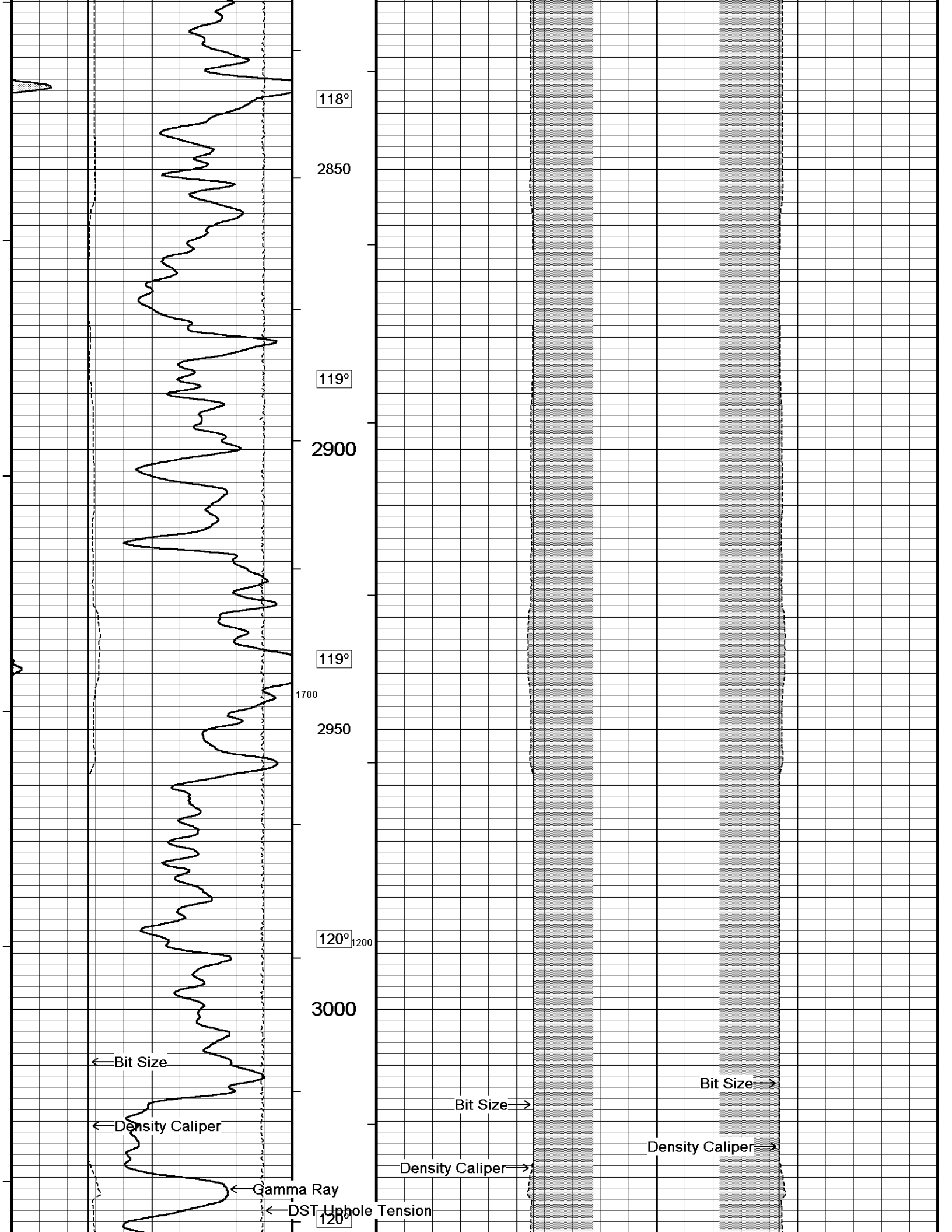


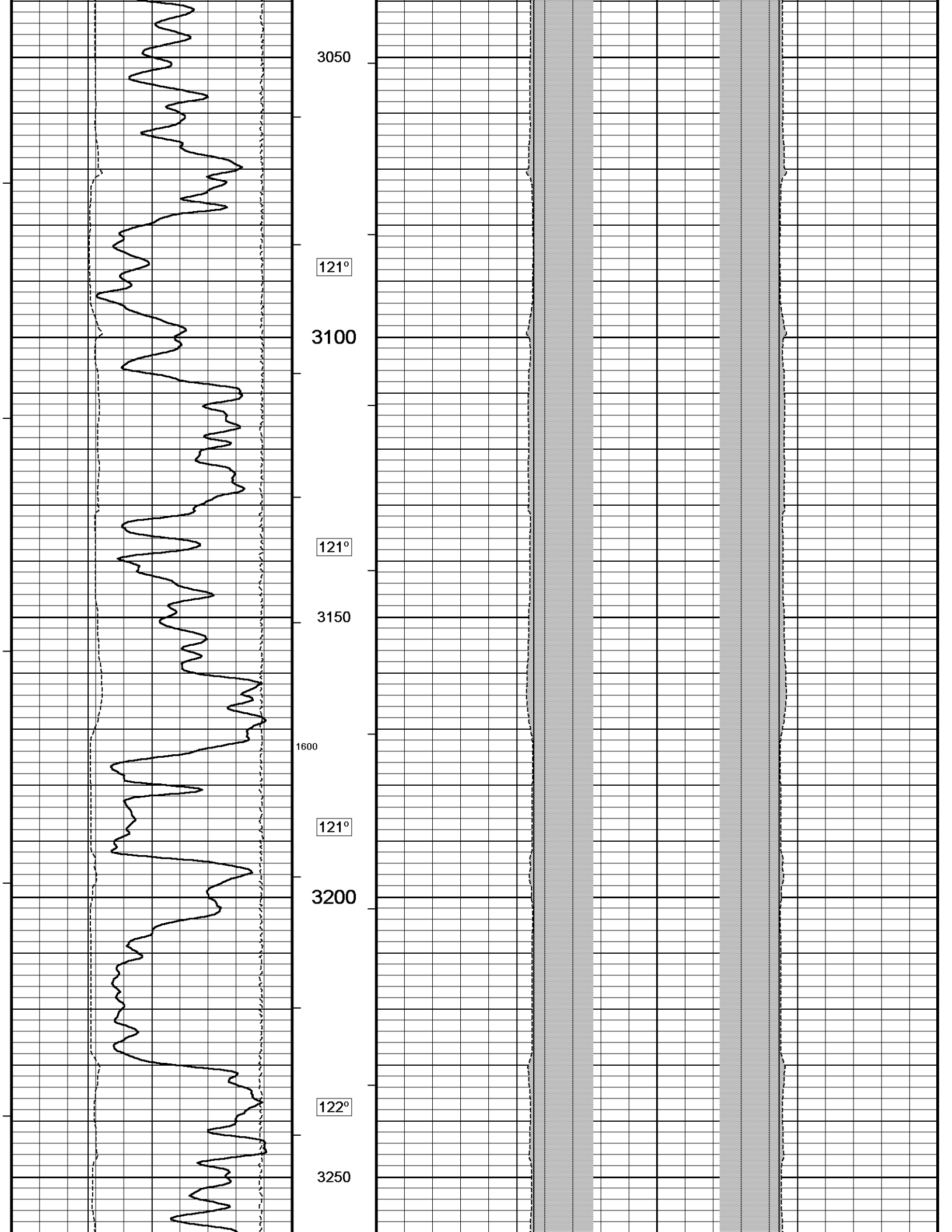


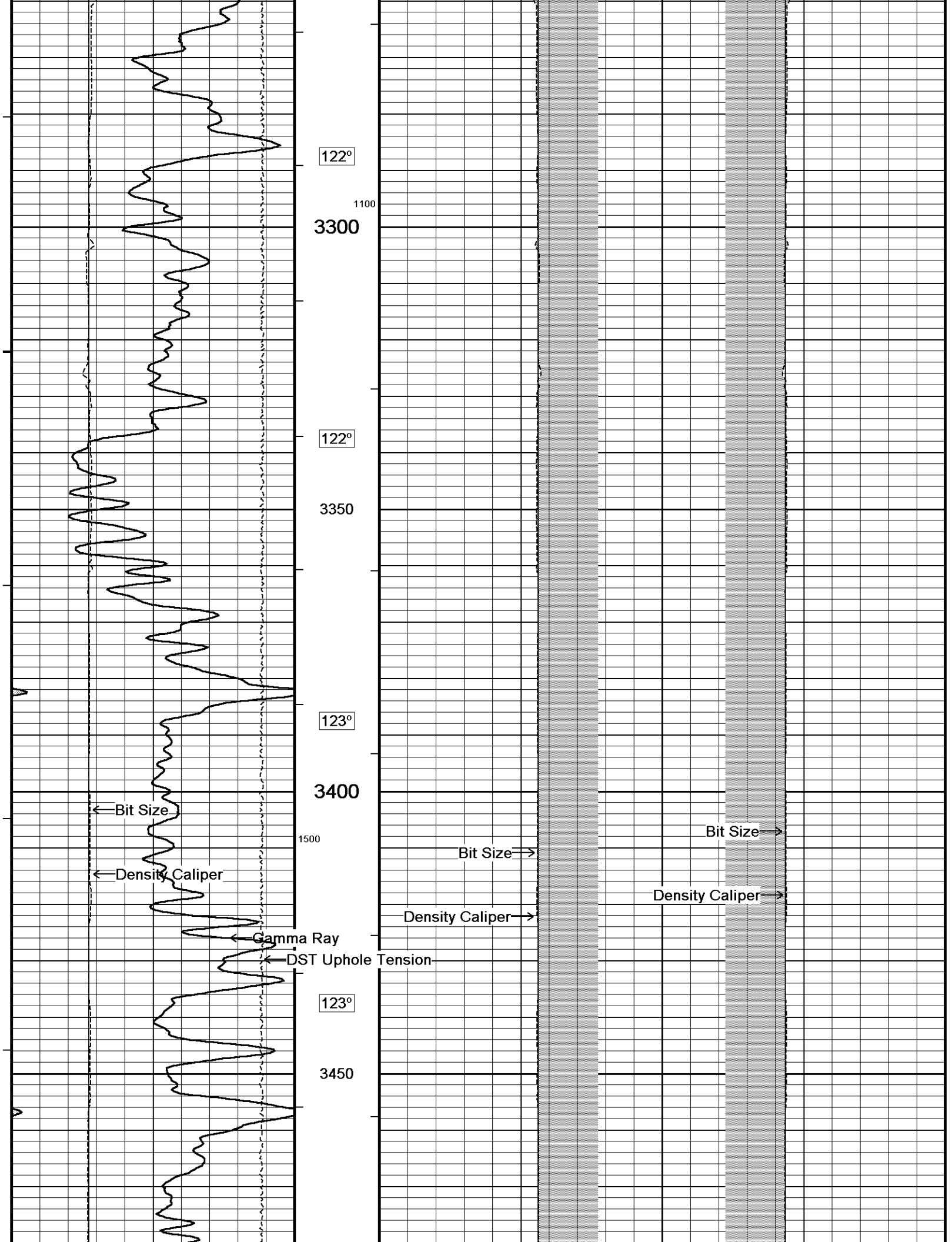


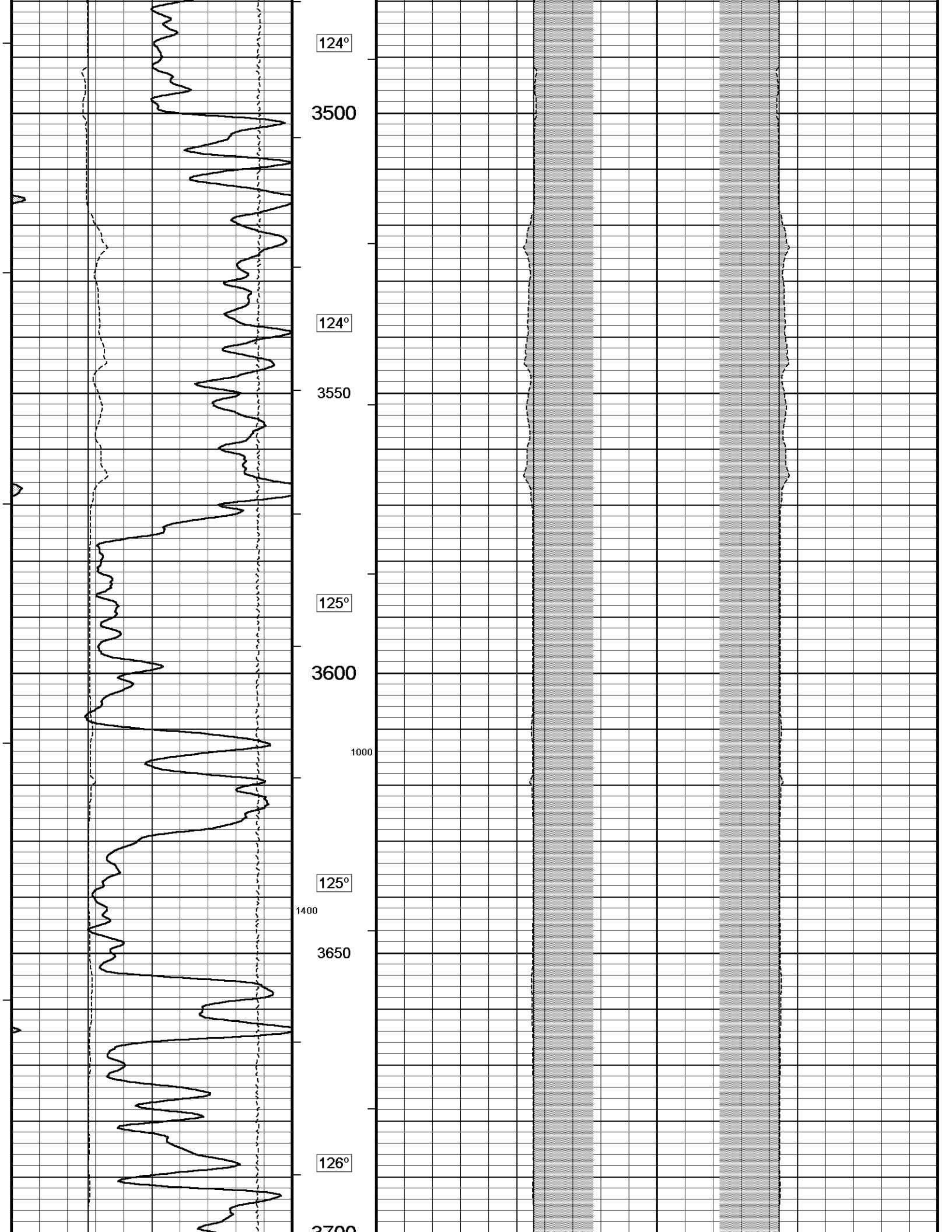


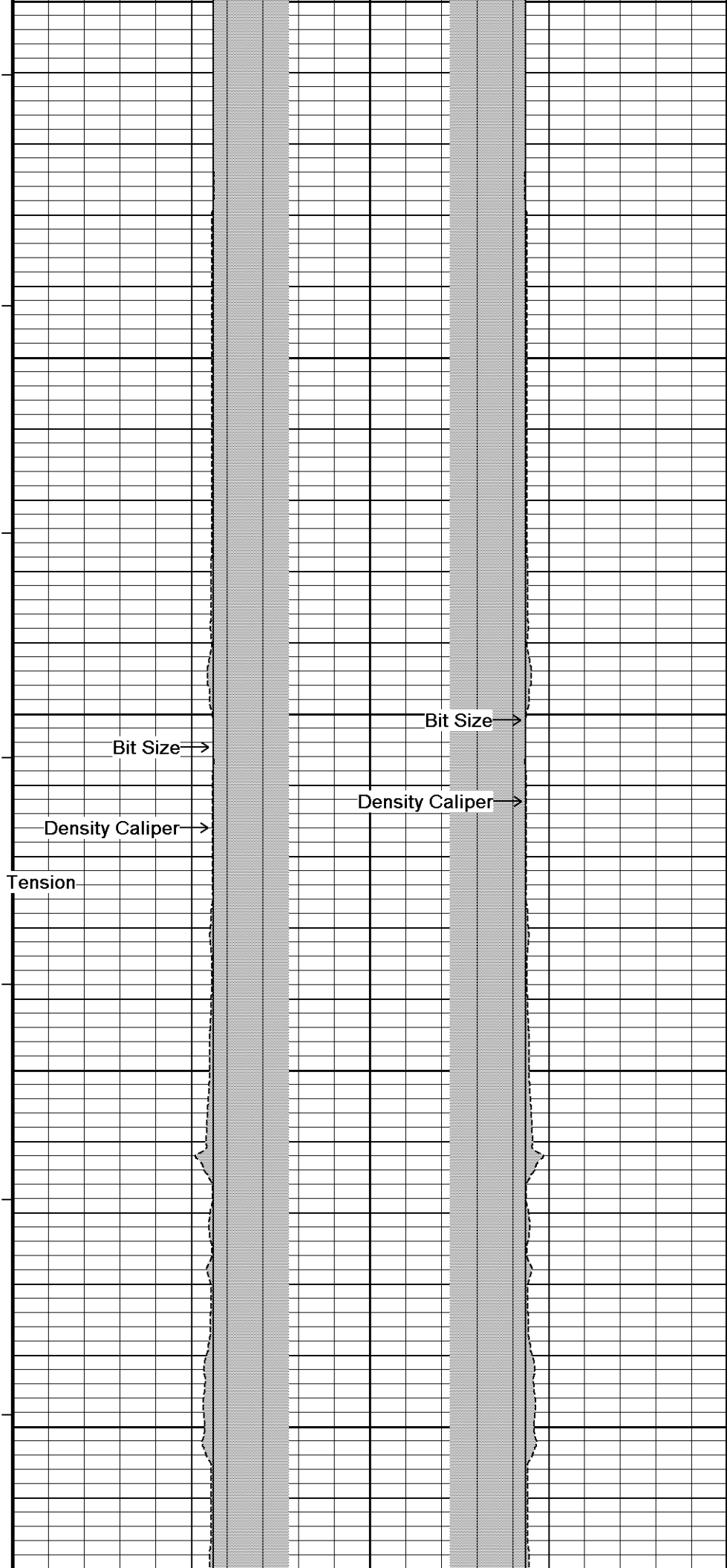
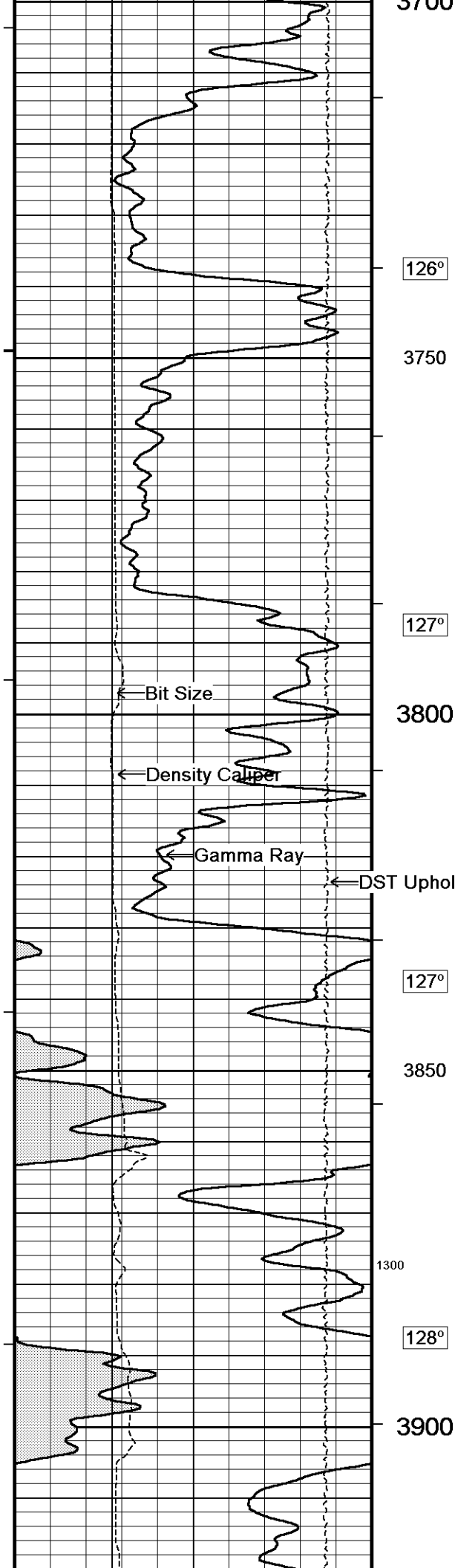




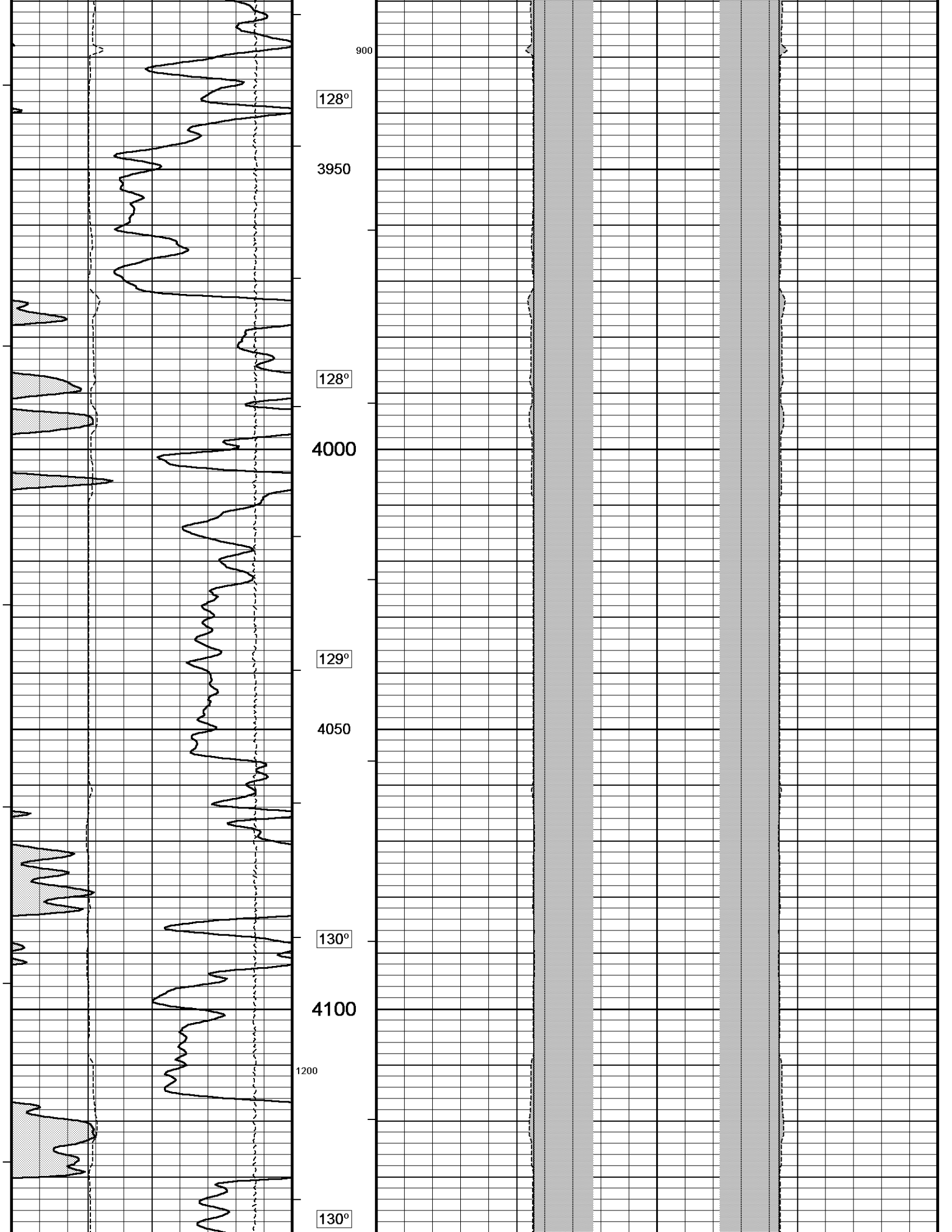


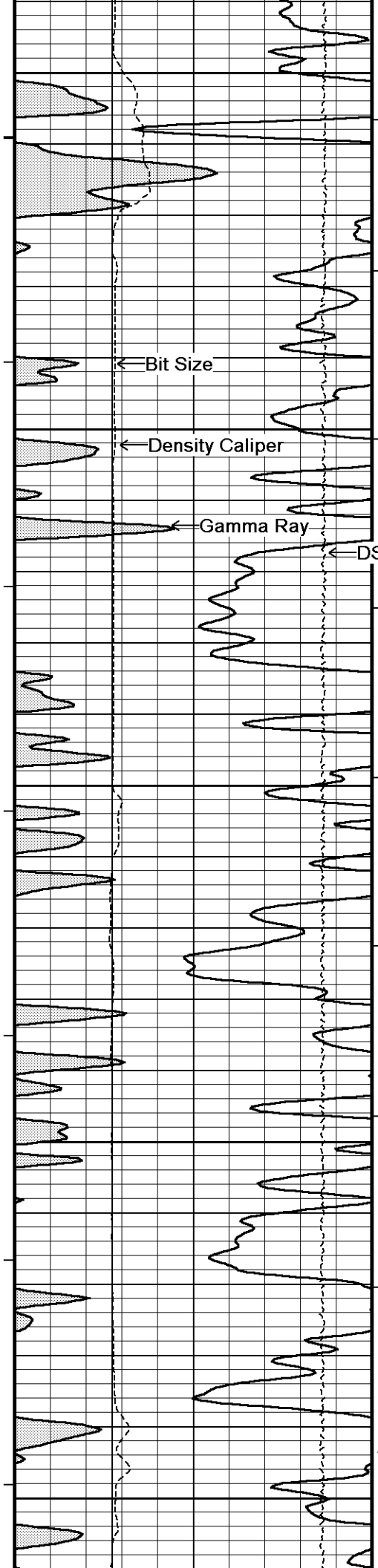












4150

131°

4200

131°

4250

132°

4300

132°

1100

4350

← Bit Size

← Density Caliper

← Gamma Ray

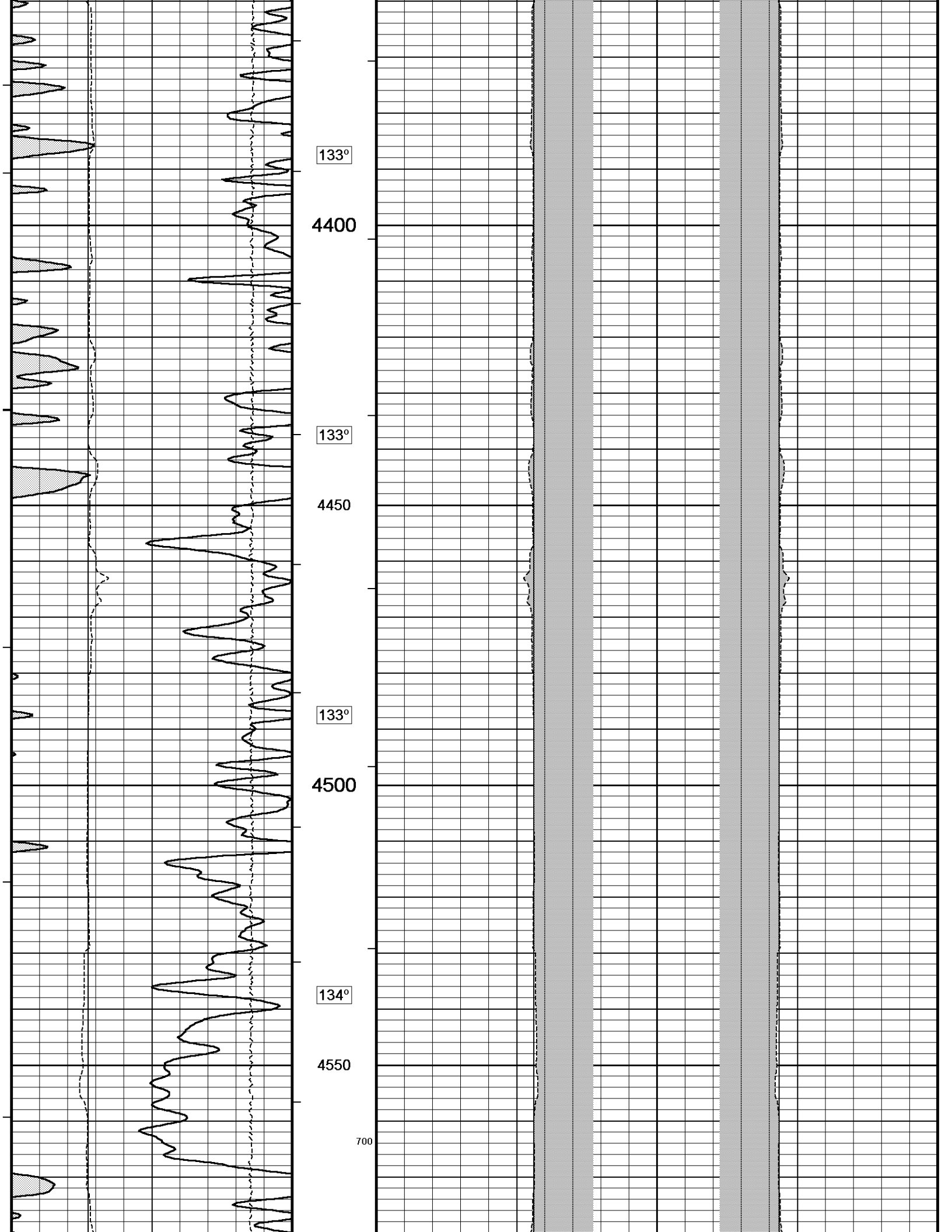
← DST Uphole Tension

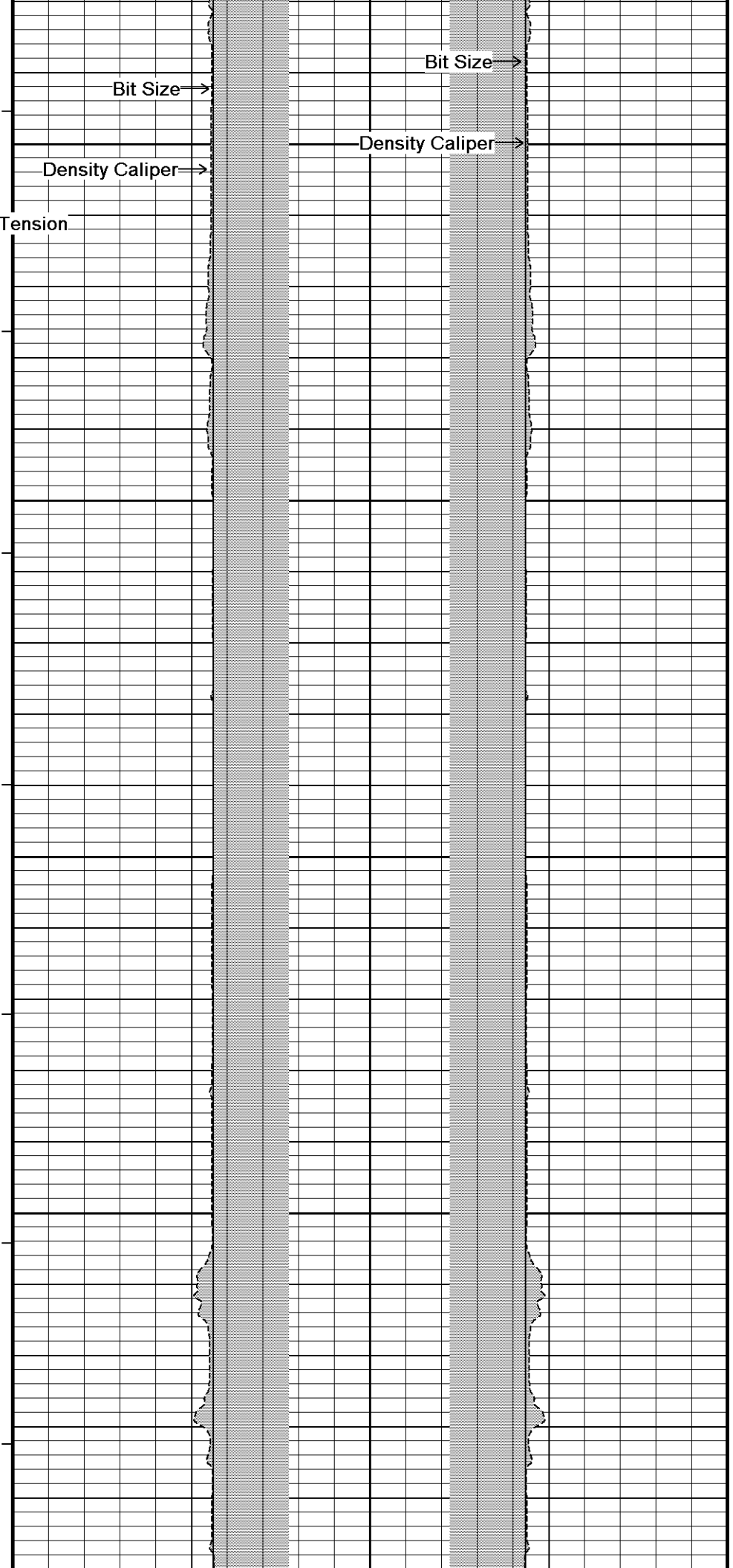
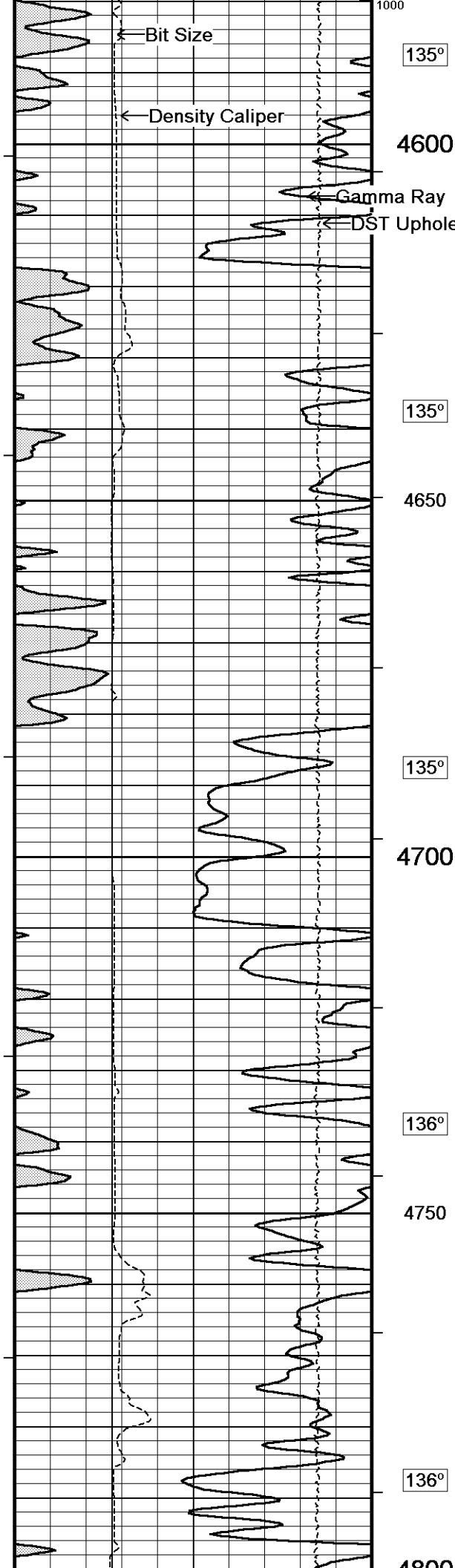
Bit Size →

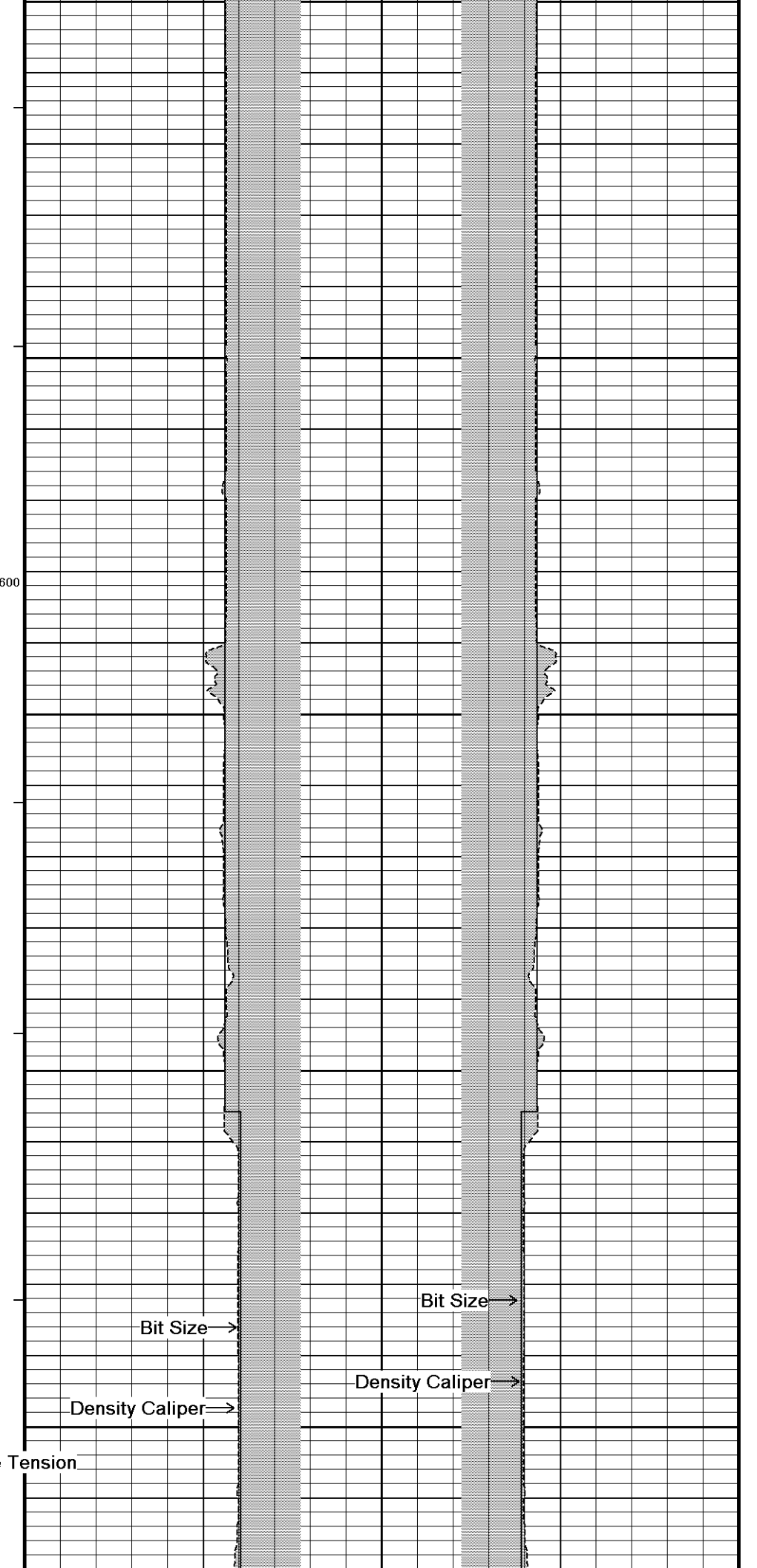
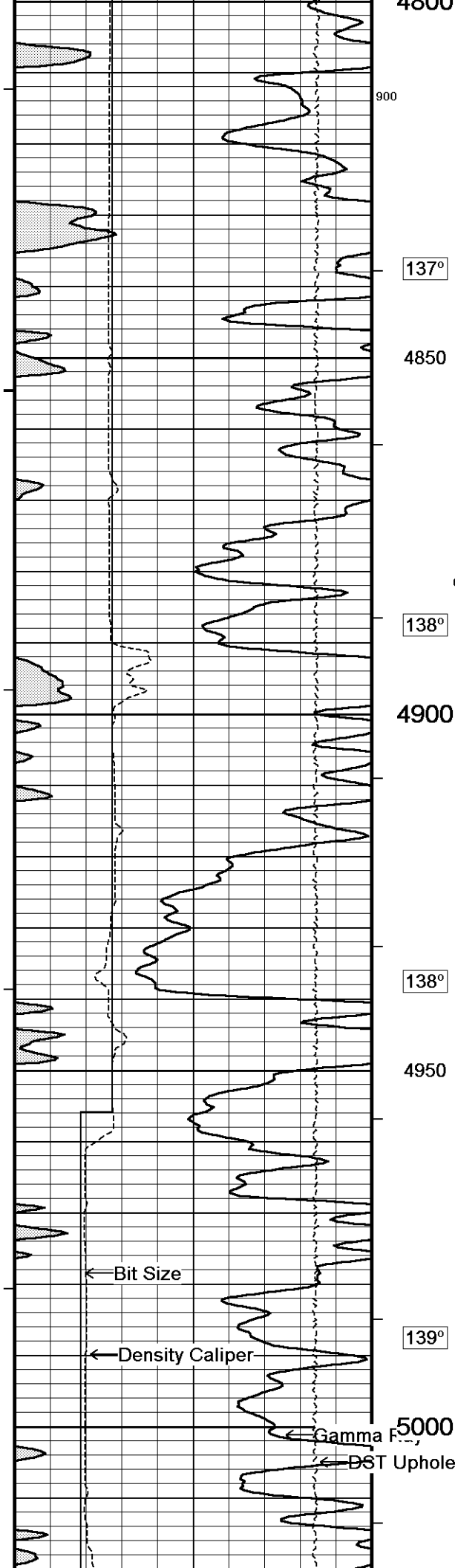
Density Caliper →

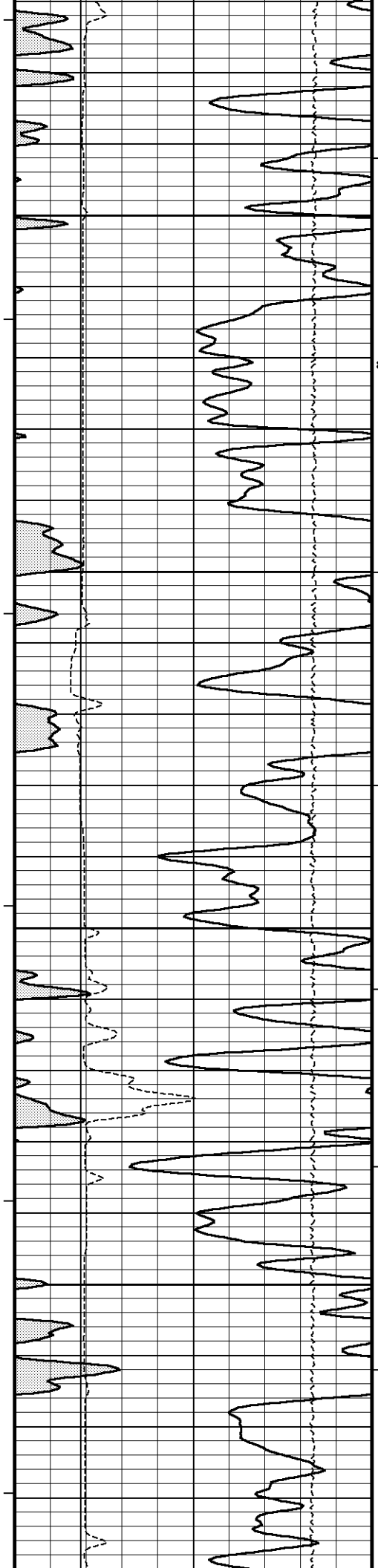
Bit Size →

Density Caliper →









139°

5050

800

139°

5100

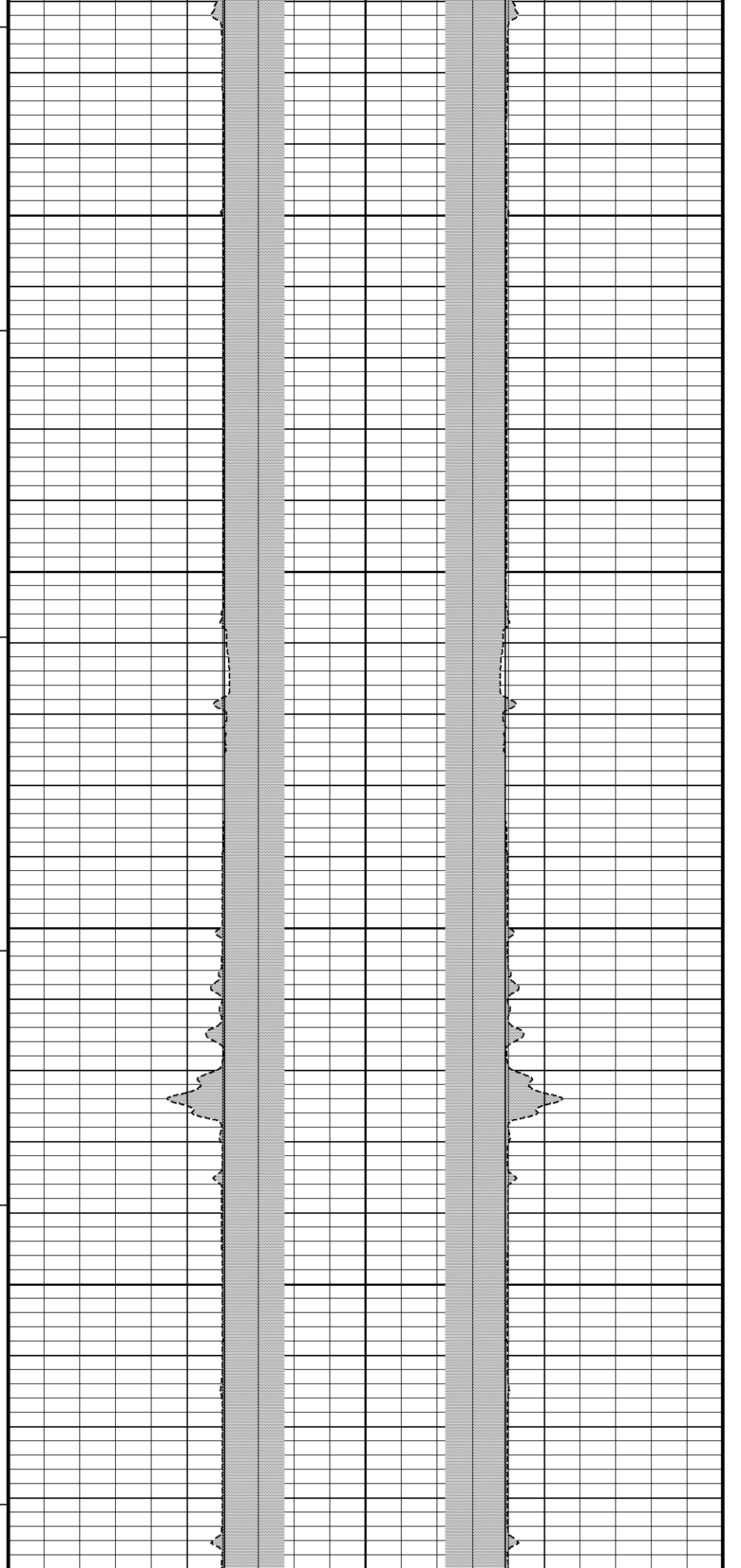
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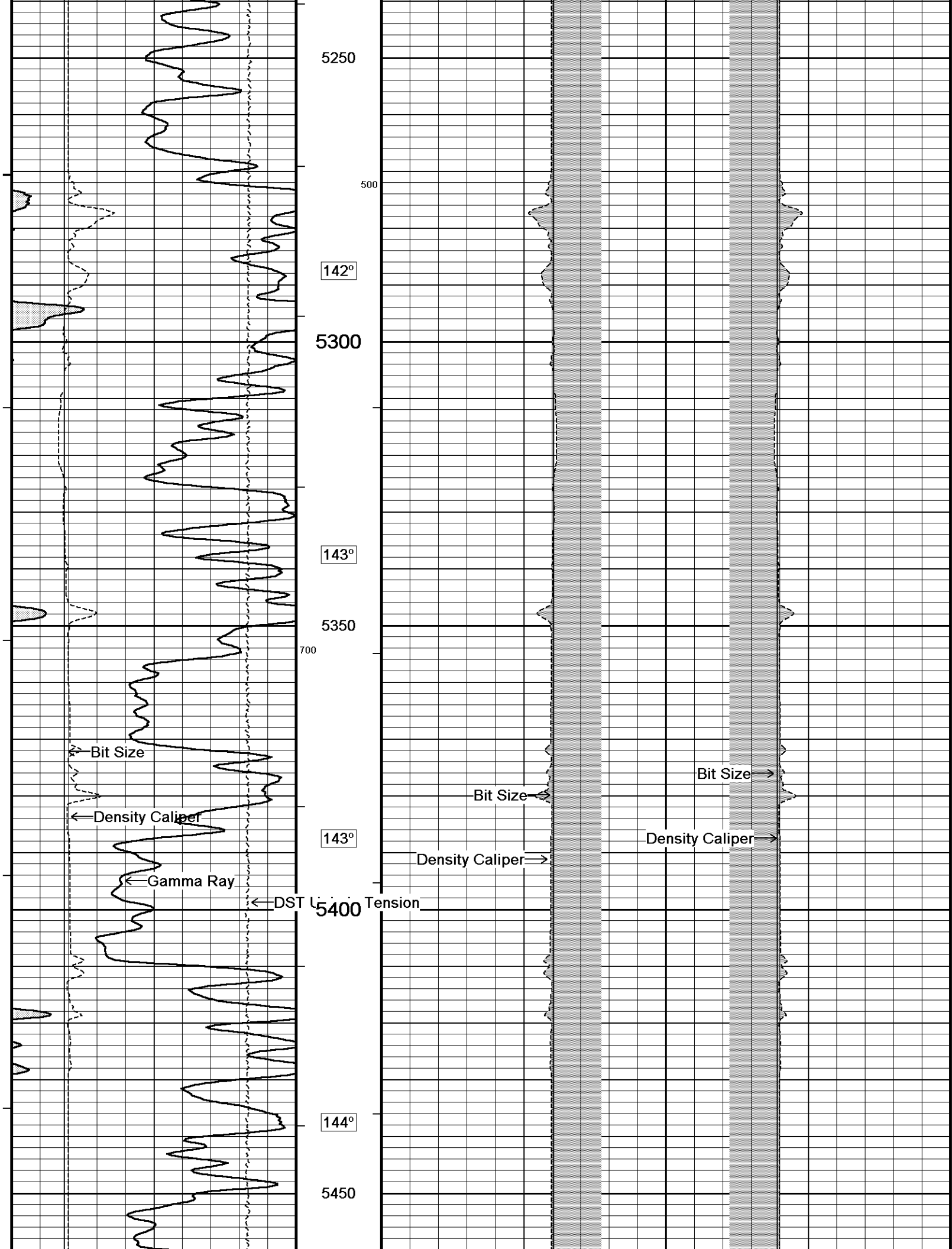
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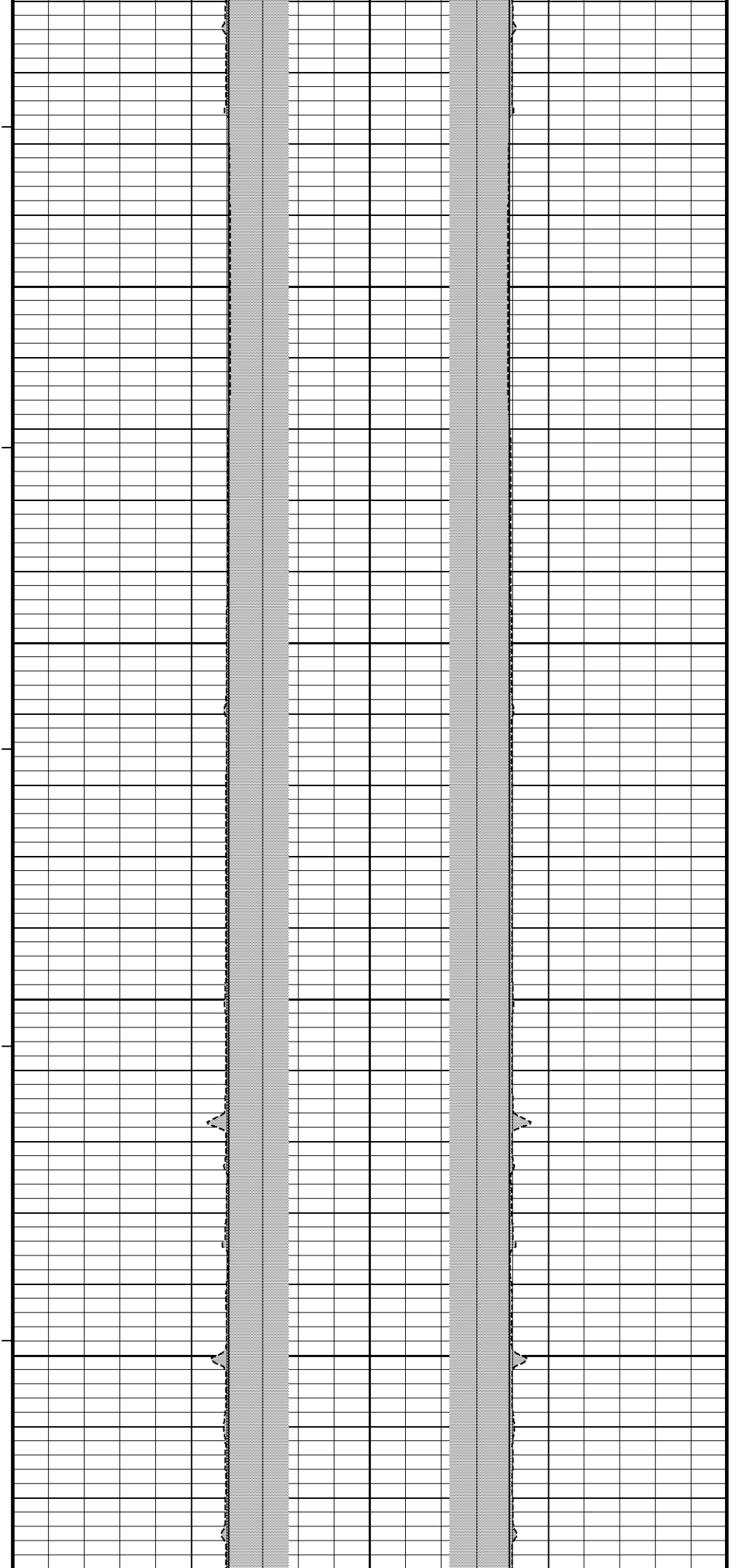
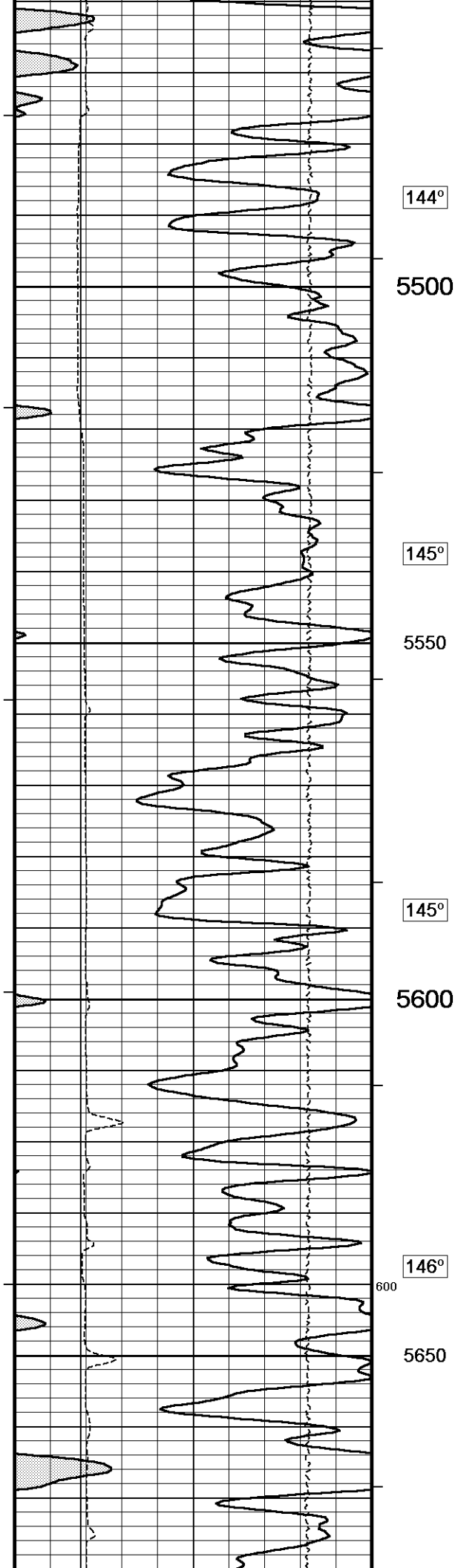
141°

5200

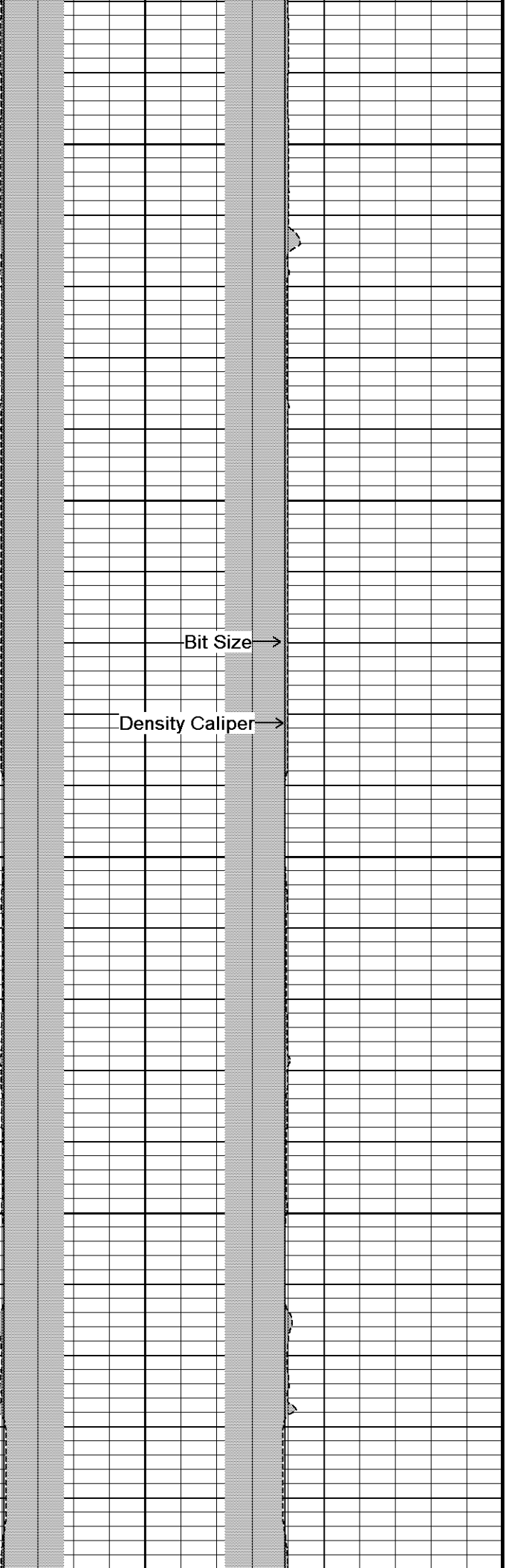
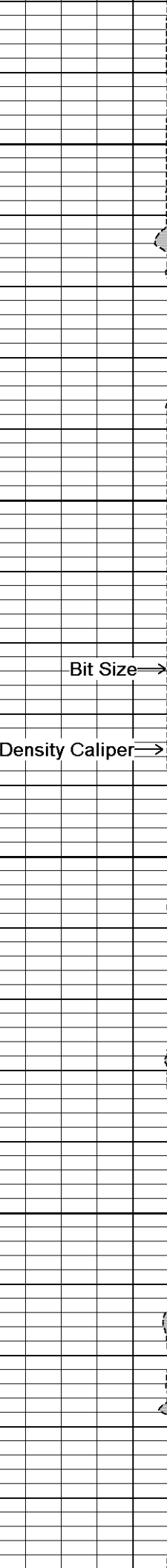
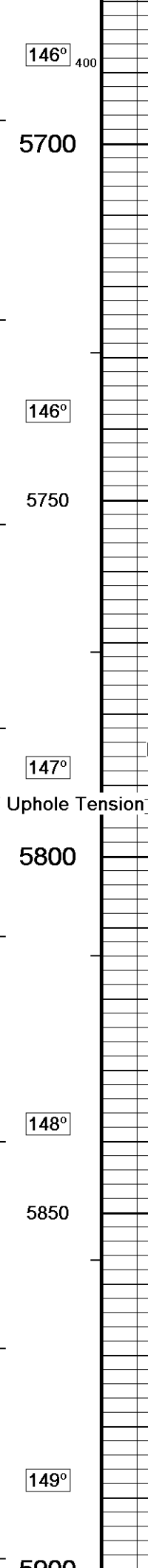
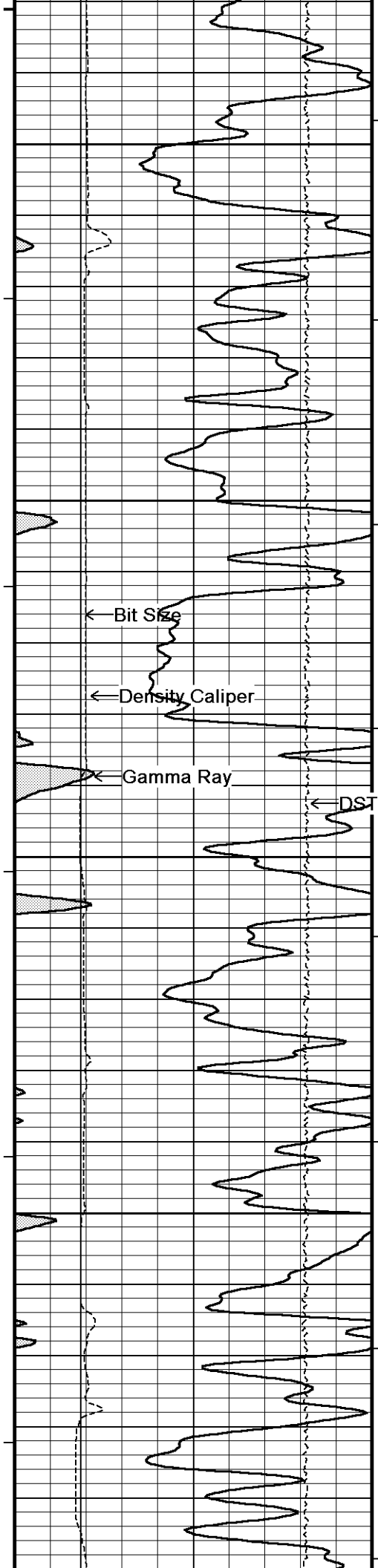
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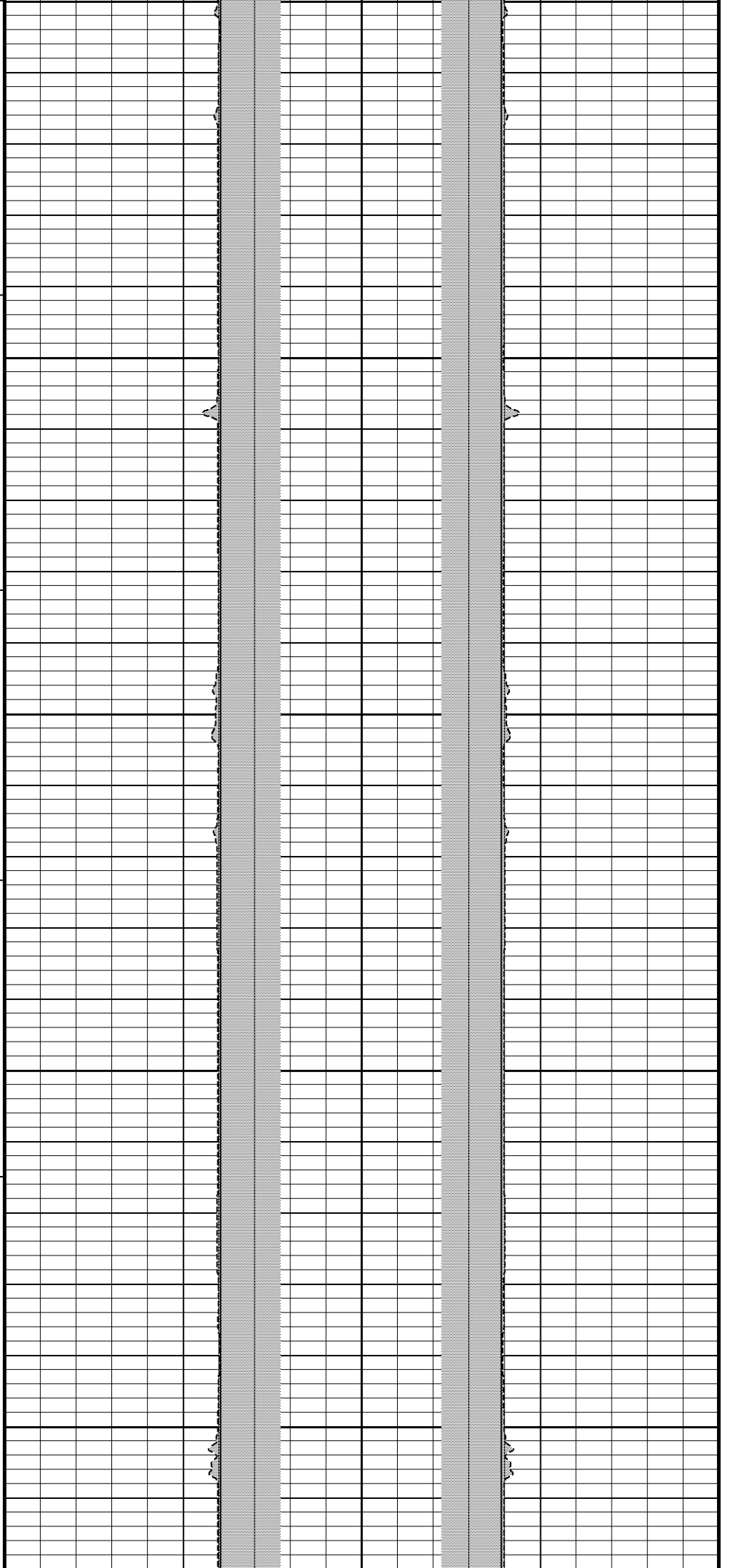
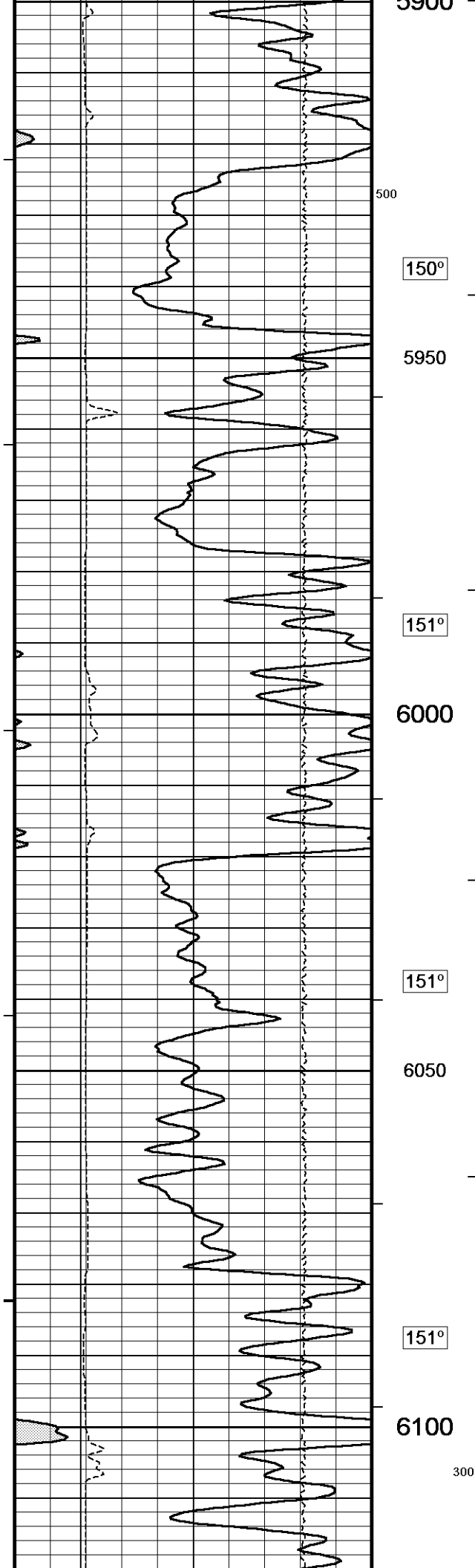


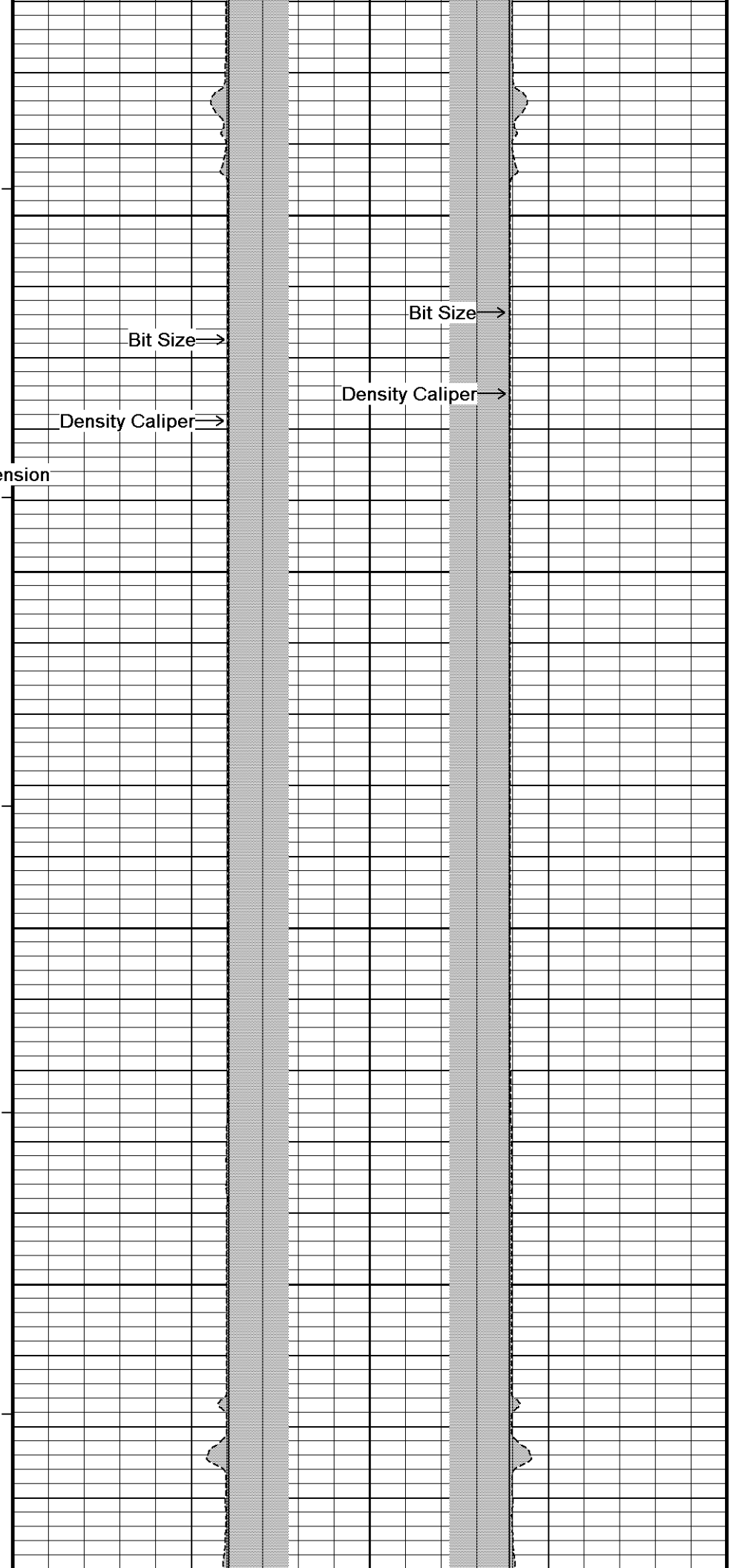
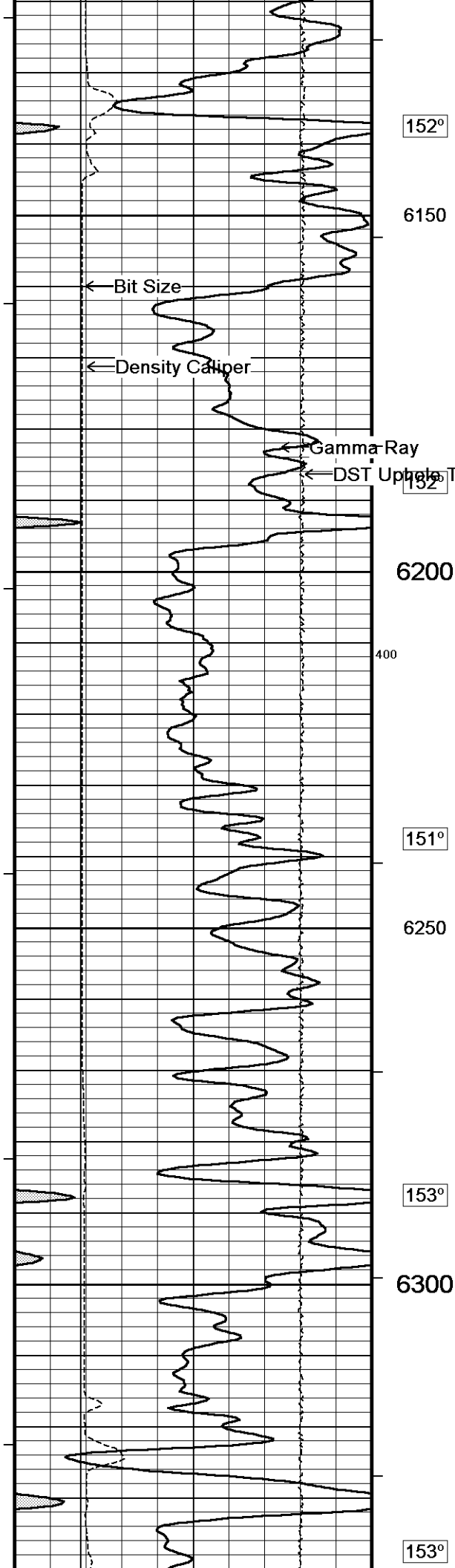


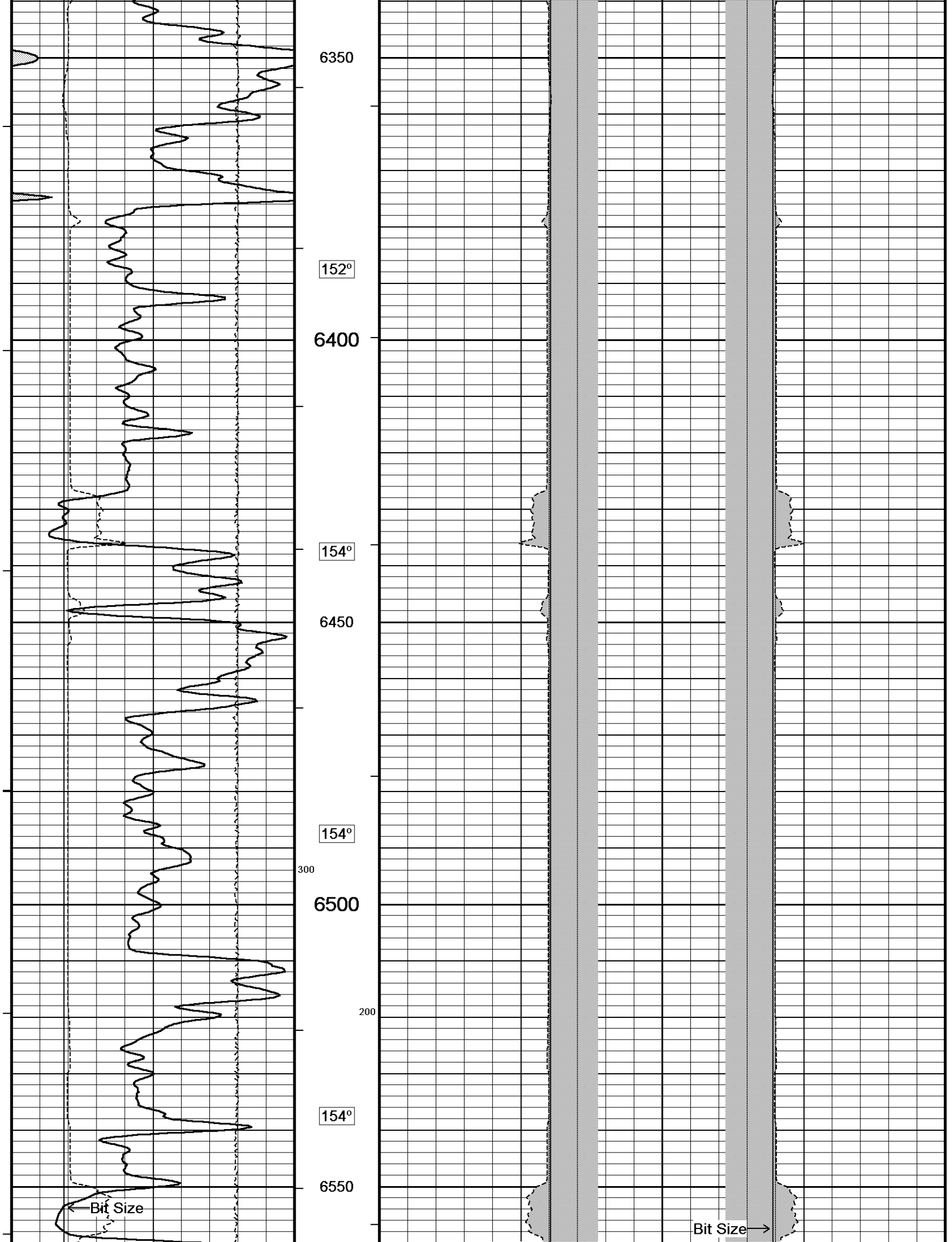


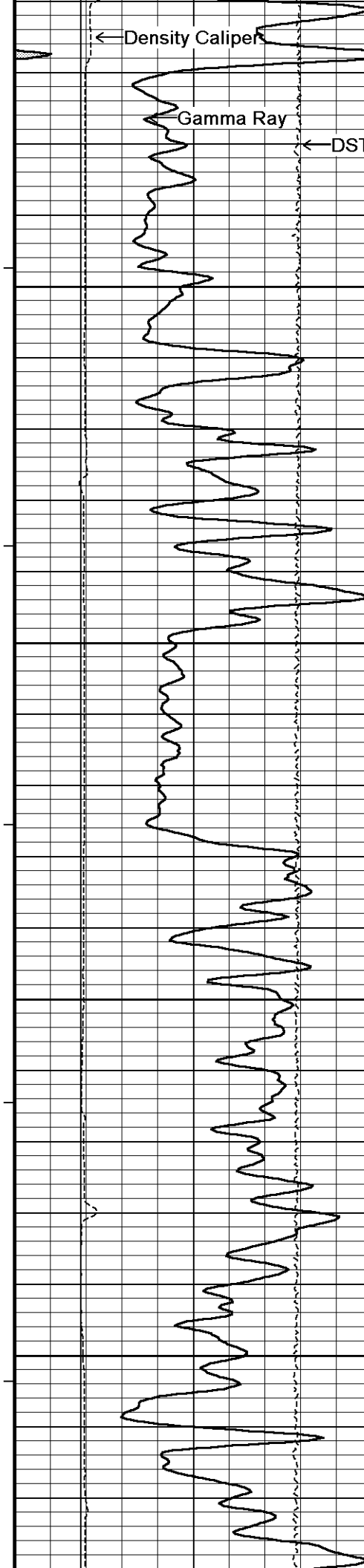




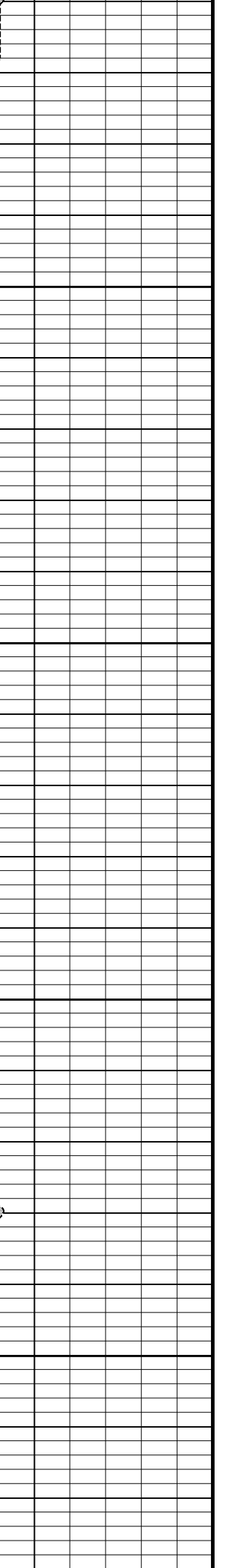
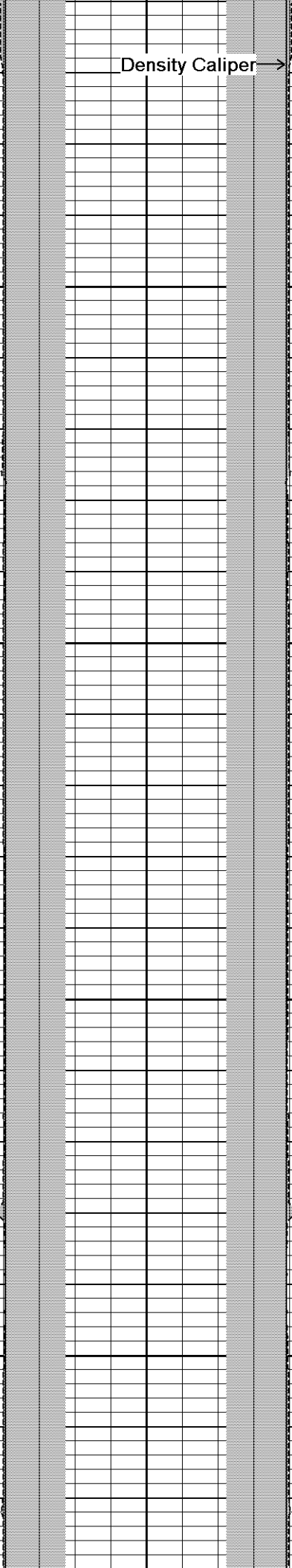
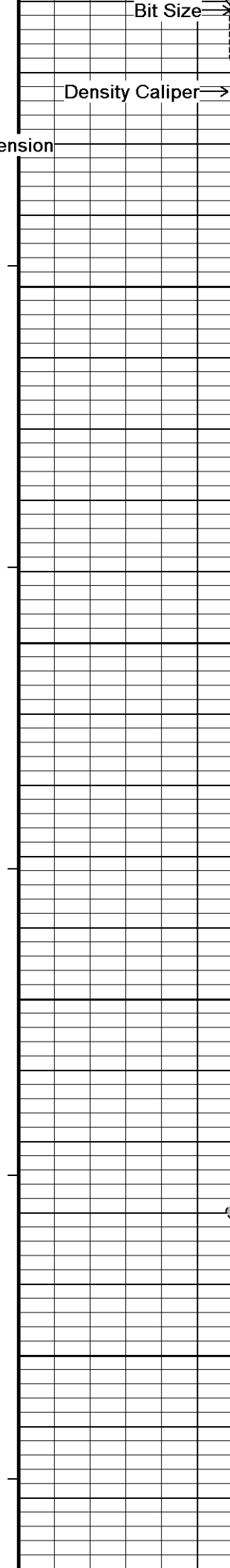


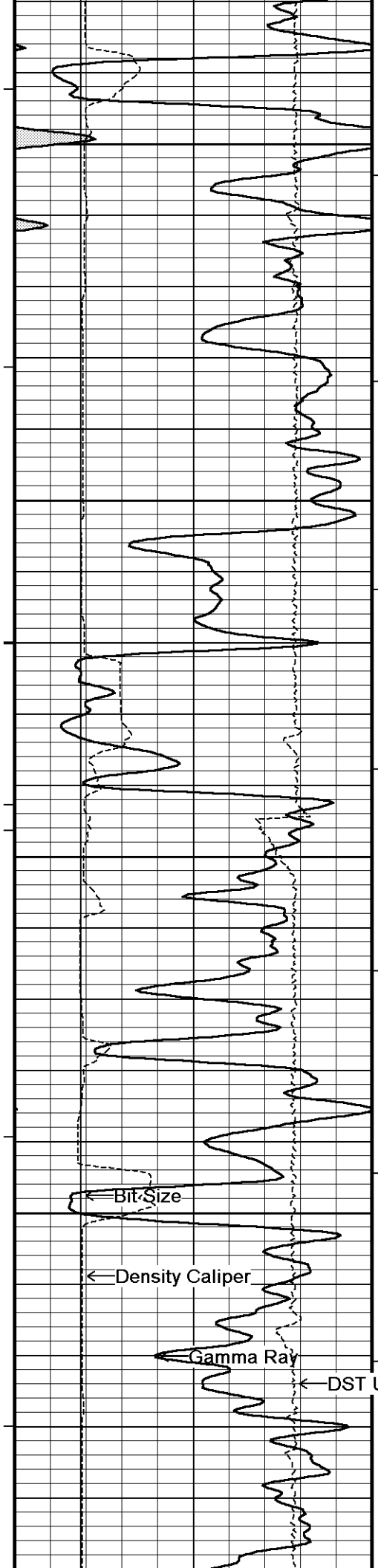




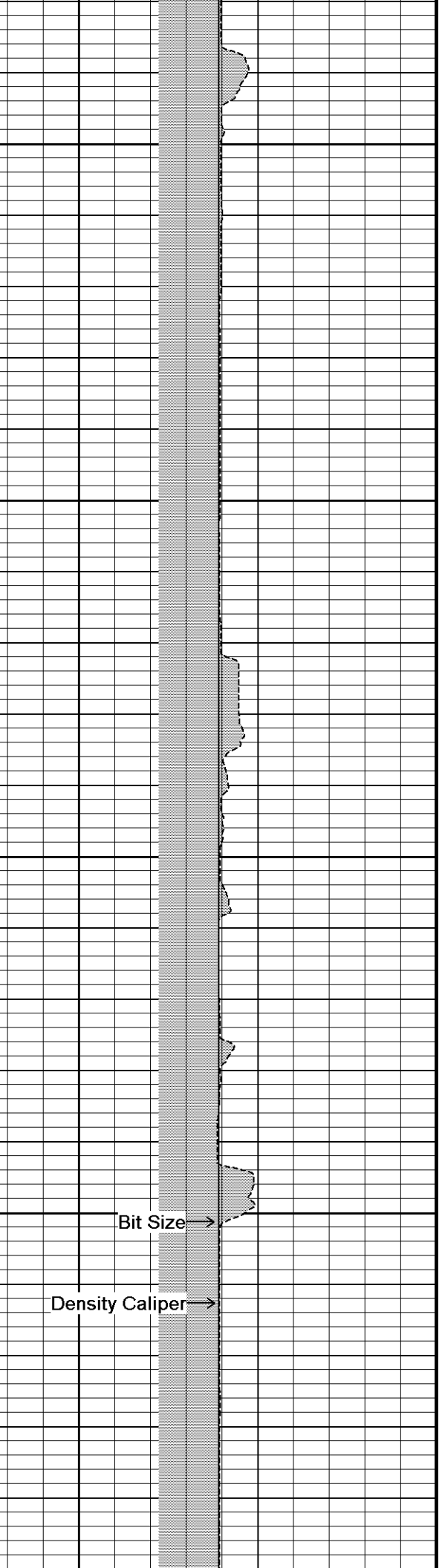
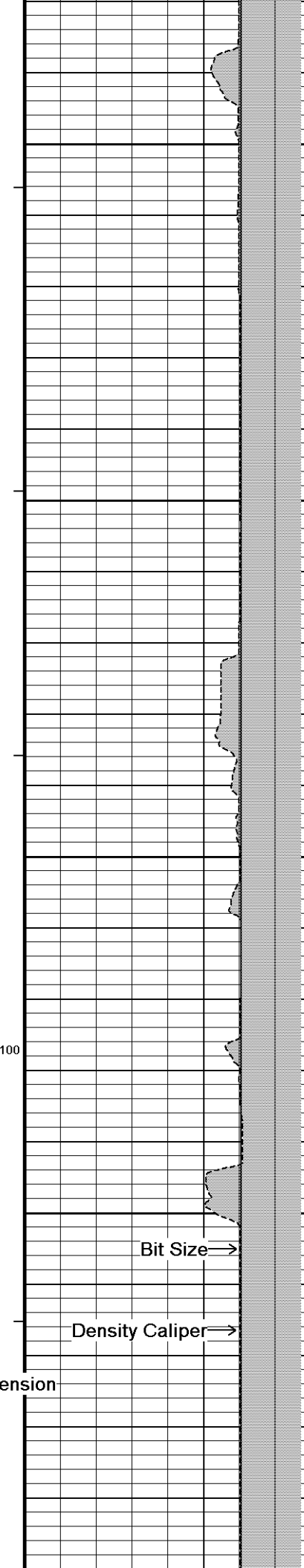


156°  
6600  
156°  
6650  
156°  
6700  
157°  
6750  
200



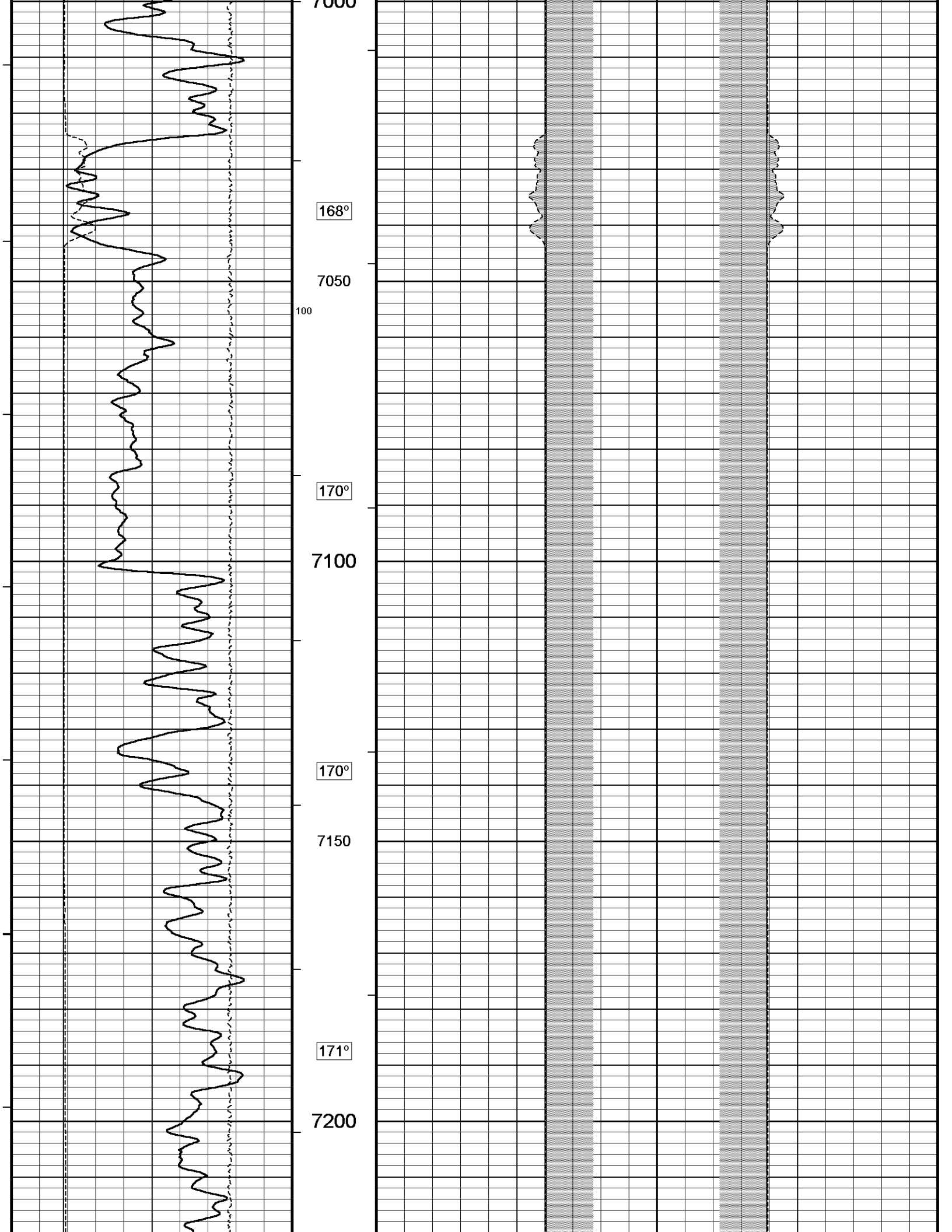


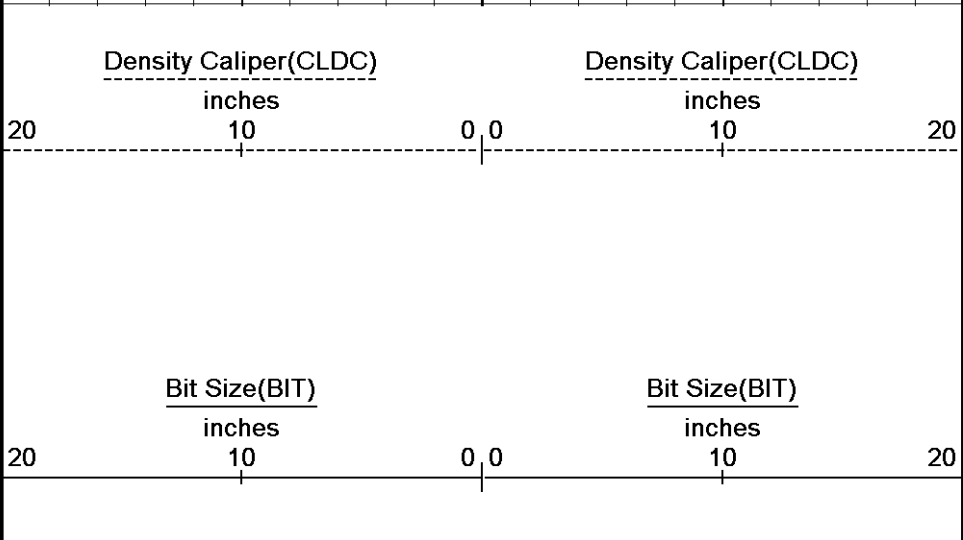
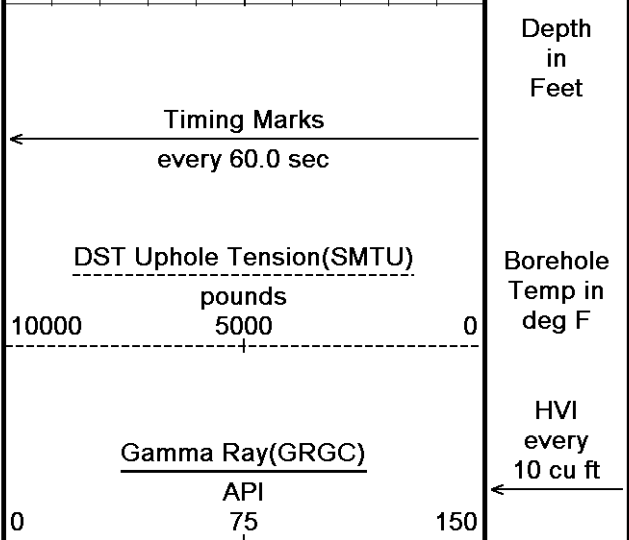
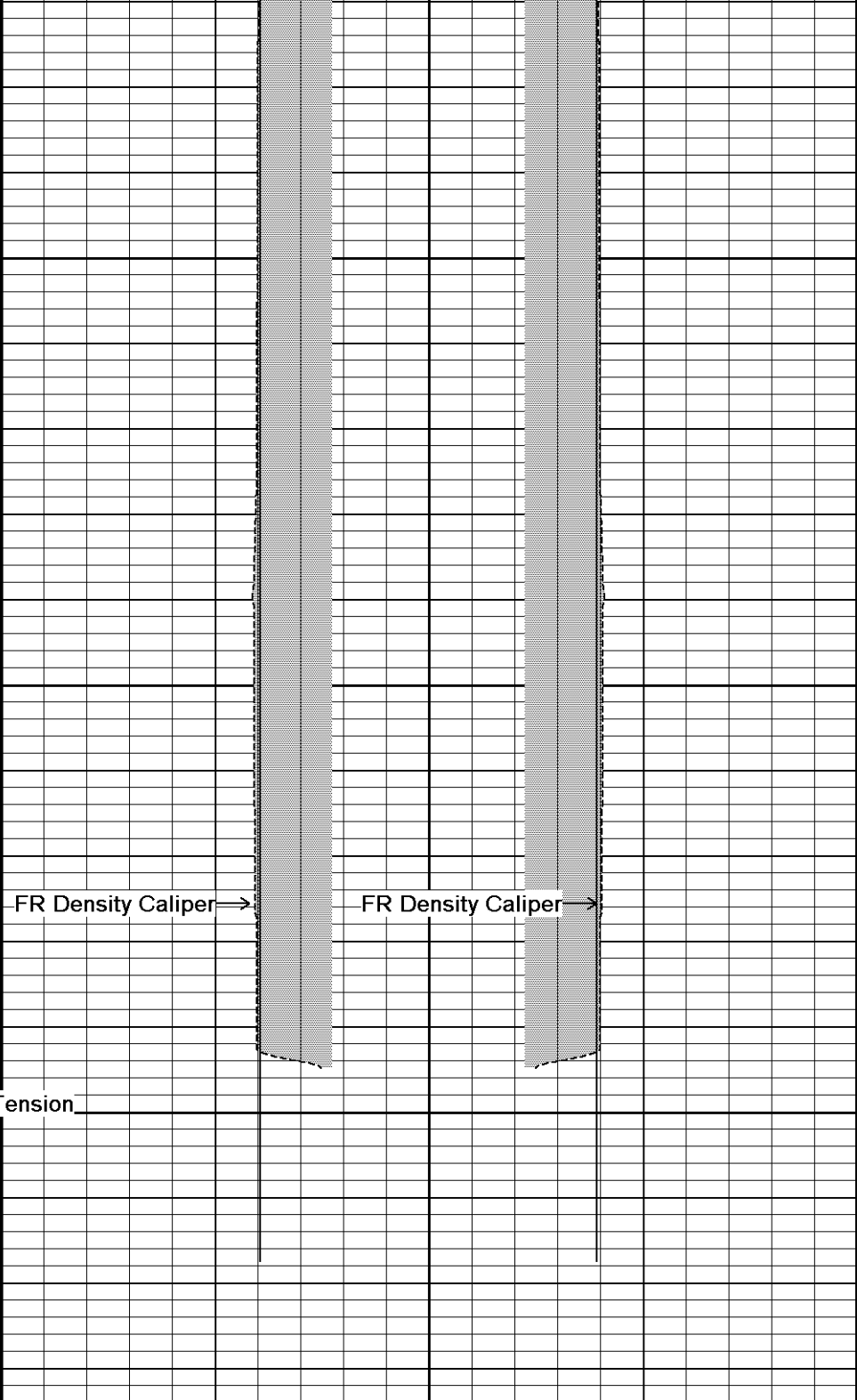
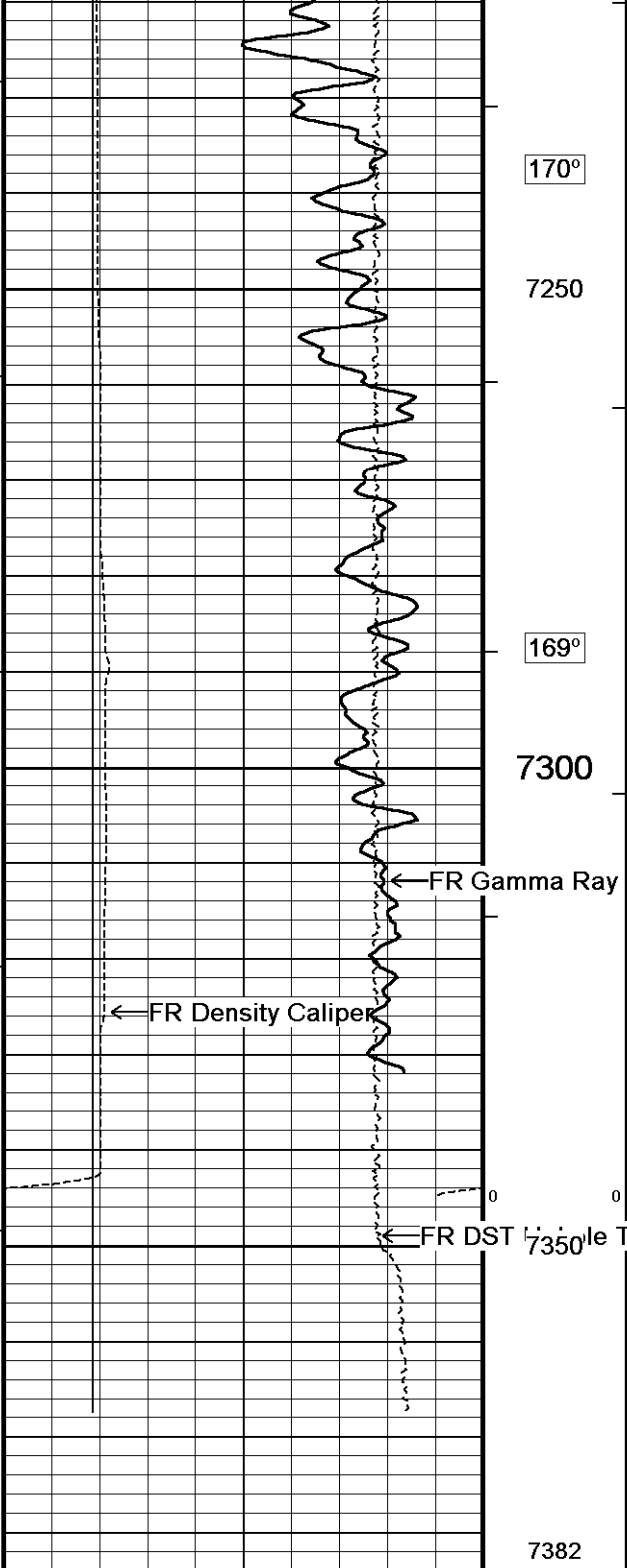
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6800  
159°  
6850  
162°  
6900  
100  
162°  
6950  
163°  
7000



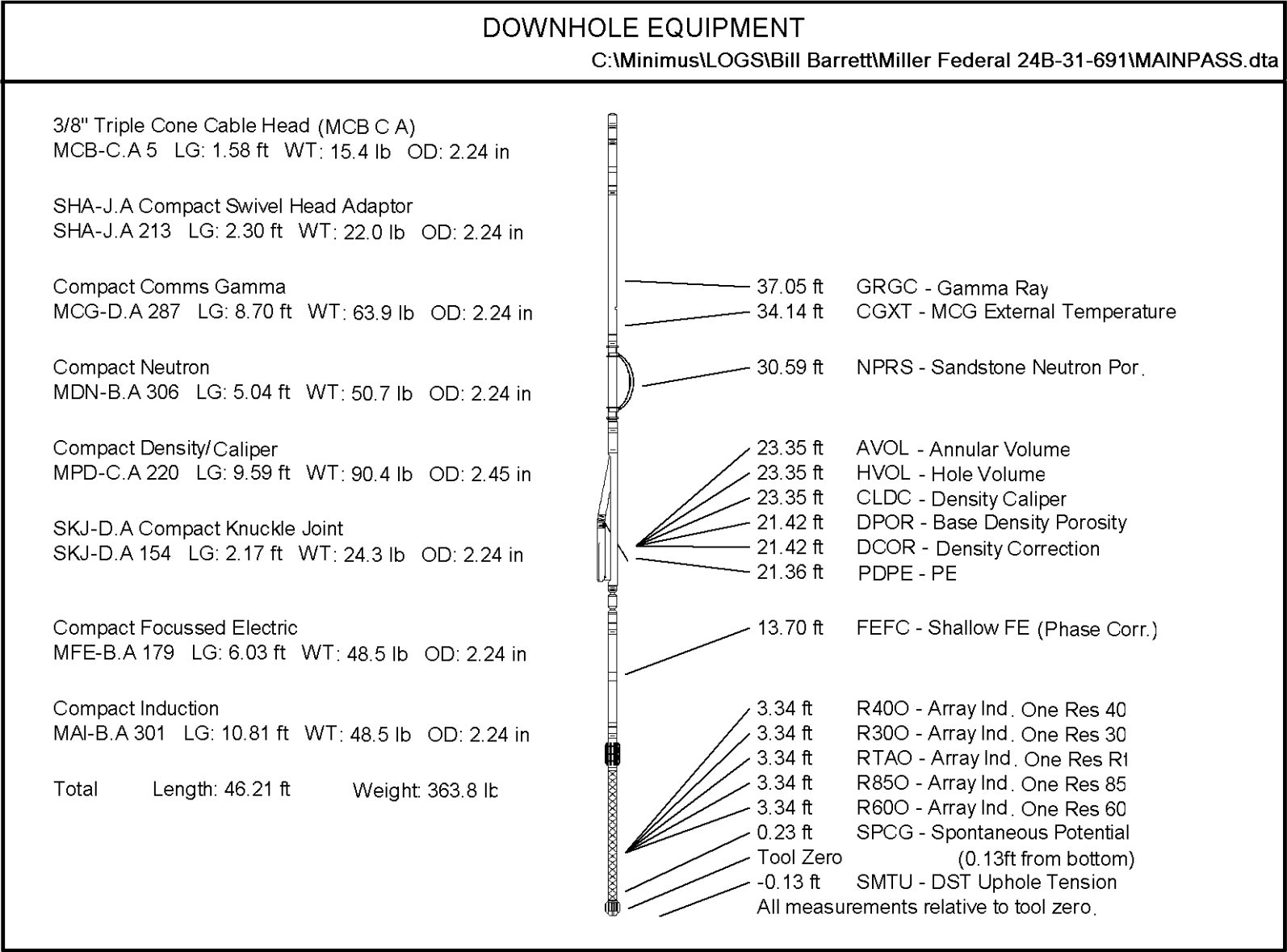
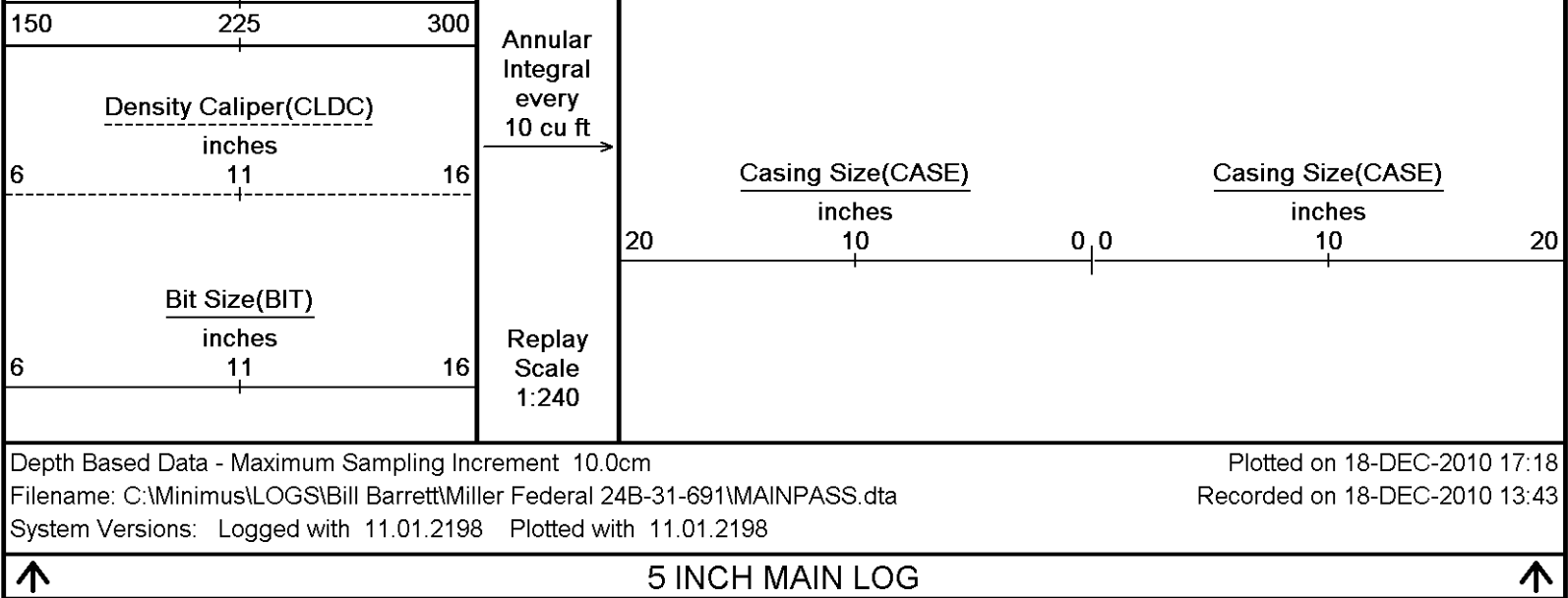
Bit Size →  
Density Caliper →

Bit Size →  
Density Caliper →










COMPANY	BILL BARRETT CORPORATION
WELL	MILLER FEDERAL 24B-31-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	6288.00	feet	First Reading	7326.00	
Elevation Drill Floor	6287.00	feet	Depth Driller	7340.00	feet
Elevation Ground Level	6266.00	feet	Depth Logger	7349.00	feet

  
**Weatherford**<sup>®</sup>

HOLE VOLUME  
CALIPER  
LOG

