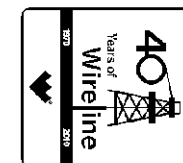




Weatherford

HOLE VOLUME CALIPER LOG



COMPANY
WELL
FIELD
PROVINCE/COUNTY
COUNTRY/STATE
LOCATION

BILL BARRETT CORPORATION
FEDERAL 32D-20-691
GIBSON GULCH
GARFIELD
U.S.A. / COLORADO
SHL: 2600' FNL & 1750' FEL
BHL: 1420' FNL & 1992' FEL

SEC	TWP	RGE	Other Services	Elevations:
20	6S	91W	MPD/MDN	KB DF GL
API Number	05-045-19680	MAI/MFE		feet 5553.00 5553.00 5530.00
Permit Number				
Permanent Datum G.L., Elevation 5530 feet				
Log Measured From KB				
Drilling Measured From K.B. @ 23 FT.				
Date	12-JULY-2011			
Run Number	ONE			
Depth Driller	7875.00	feet		
Depth Logger	7866.00	feet		
First Reading	7843.00			
Last Reading	854.00			
Casing Driller	855.00	feet		
Casing Logger	854.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	LSND			
Density / Viscosity	10.10 lb/USg	50.00 CP		
PH / Fluid Loss	9.40	8.00 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	2.70 @ 83.0	ohm-m		
Rmf @ Measured Temp	2.16 @ 83.0	ohm-m		
Rmc @ Measured Temp	3.24 @ 83.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.31 @ 174.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	174.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13173	GD JCT		
Recorded By	N. TAYLOR		O. GOYZUETA	
Witnessed By	C. CROWTON			

BOREHOLE RECORD				Last Edited: 17-JUL-2011 07:50
Bit Size inches	Depth From feet		Depth To feet	
8.750	854.00		5270.00	
7.880	5270.00		7866.00	
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	854.00	36.00

REMARKS
LOGGING SOFTWARE USED: 11.03.3657
TOOLS: SHA, MCG, MDN, MPD, SKJ, MFE AND MAI RAN IN COMBINATION.
HARDWARE: MPD: 8 INCH PROFILE PLATE USED. TWO 0.5 INCH STANDOFFS USED ON INDUCTION. 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.
BOREHOLE CONDITIONS REQUIRED MULTIPLE REPEAT PASSES. AS SUCH, TWO OVERLAYS ARE SHOWN.
CALIPER CHECK IN CASING PRESENTED. REFERENCE ID = 9.02" / 9.5/8" 36 LB/FT CASING)

CALIPER CHECK IN CASING RECENTED, REFERENCE I.D. = 5.92 (5.916 , 5.926 IN CASING).

8.75 INCH BIT CHANGE AT 5270 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 3240 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2470 CU.FT.

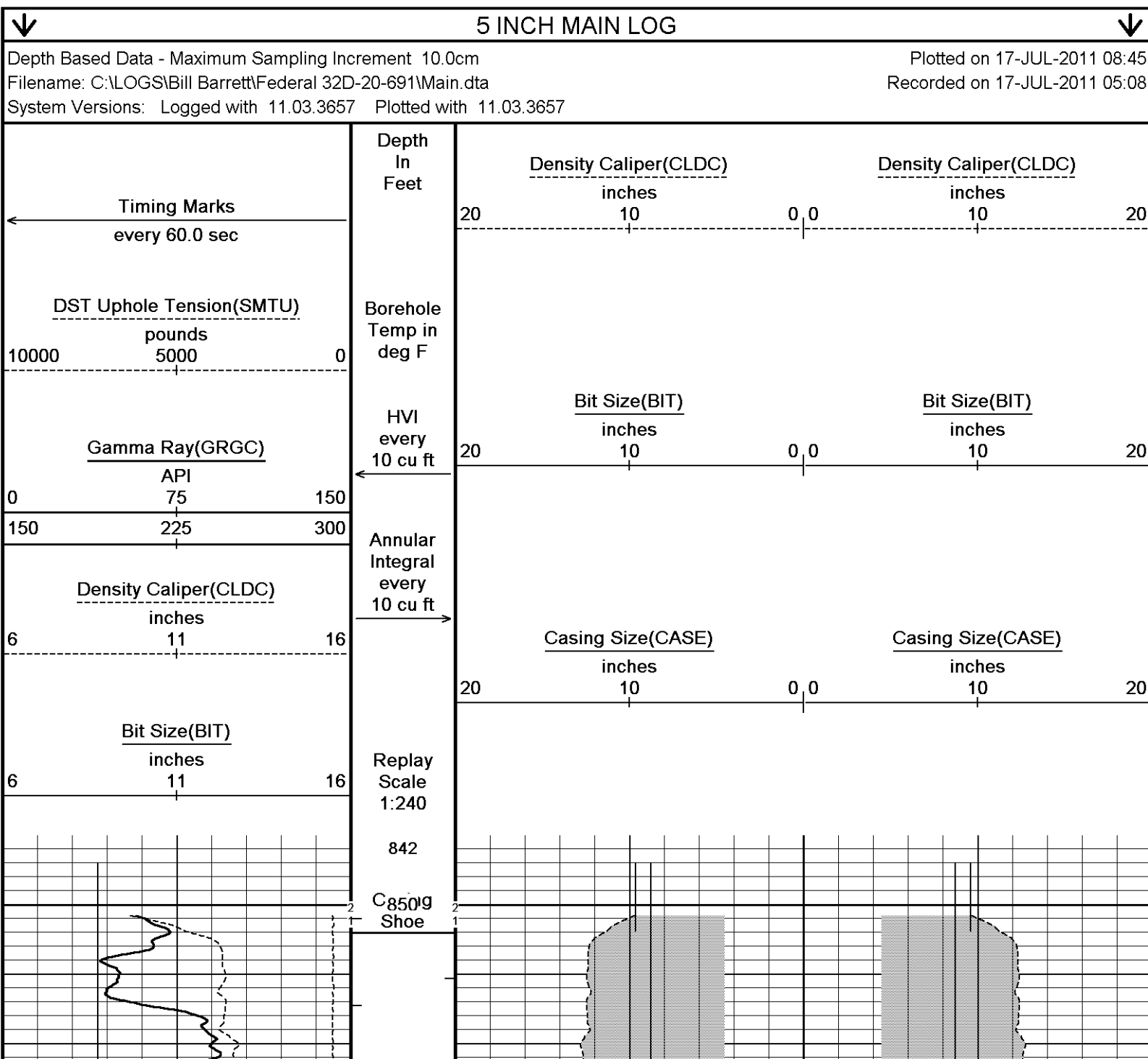
ENGINEER(S): N. TAYLOR, O. GOYZUETA

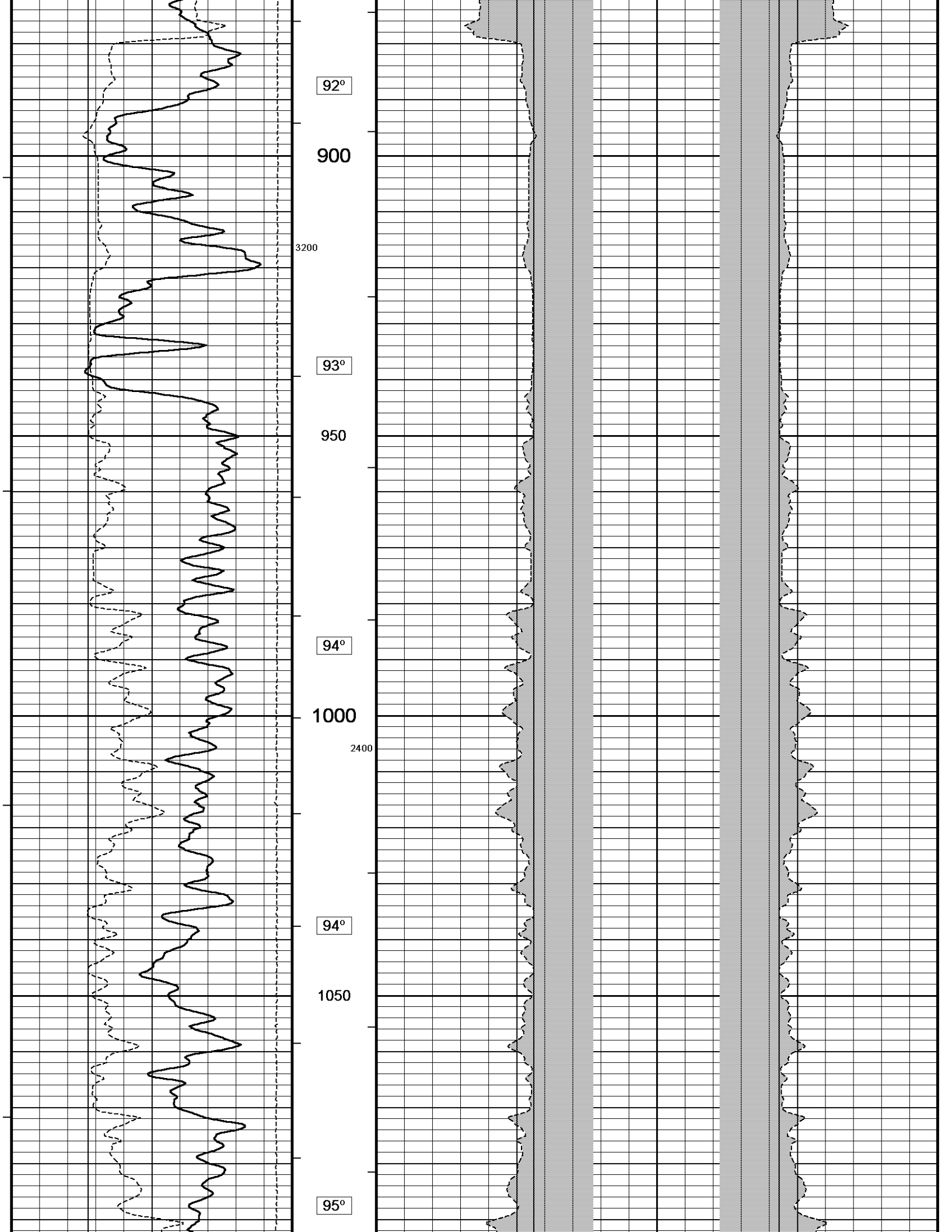
OPERATOR(S): S. KAISER

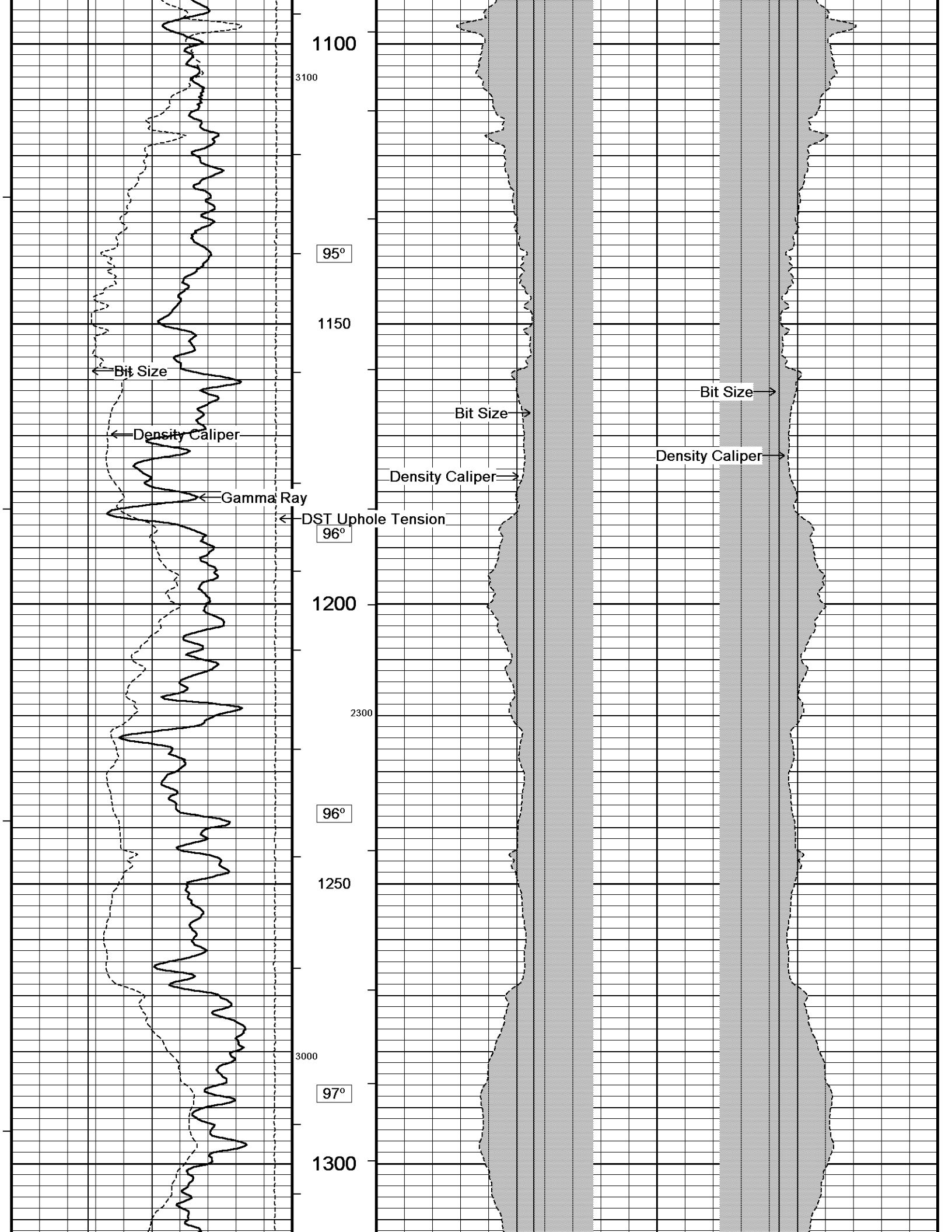
SERVICE ORDER: # 3531828

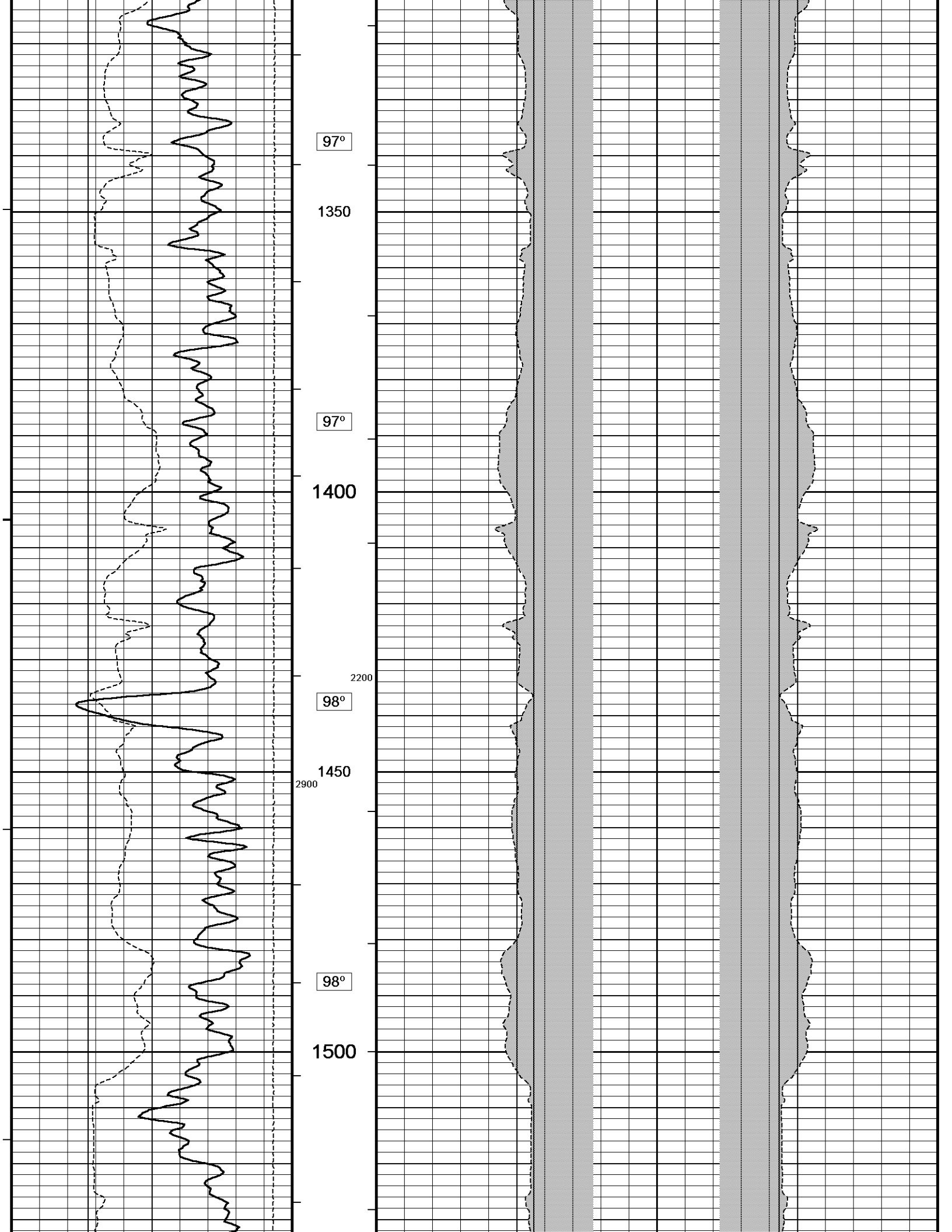
RIG: NABORS #37

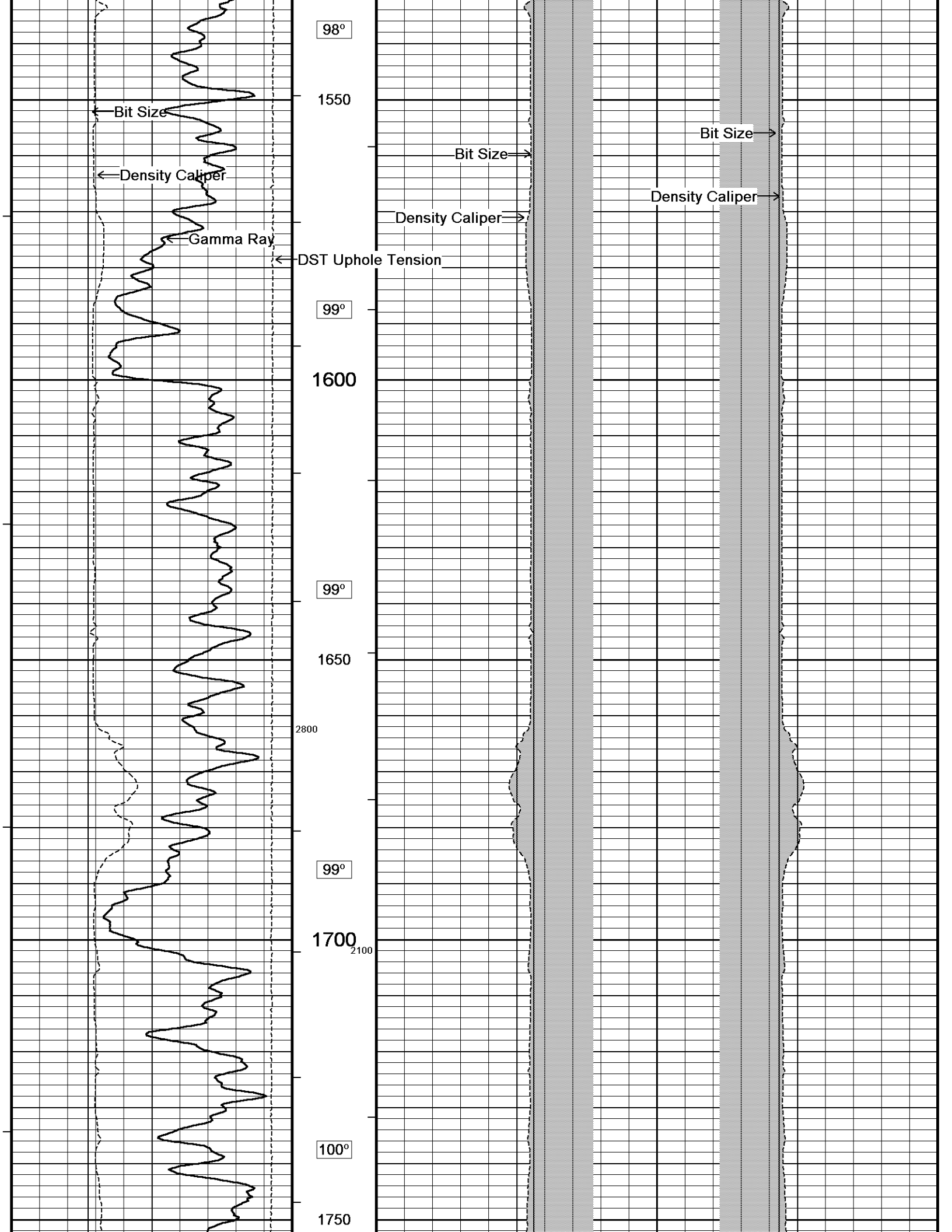
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

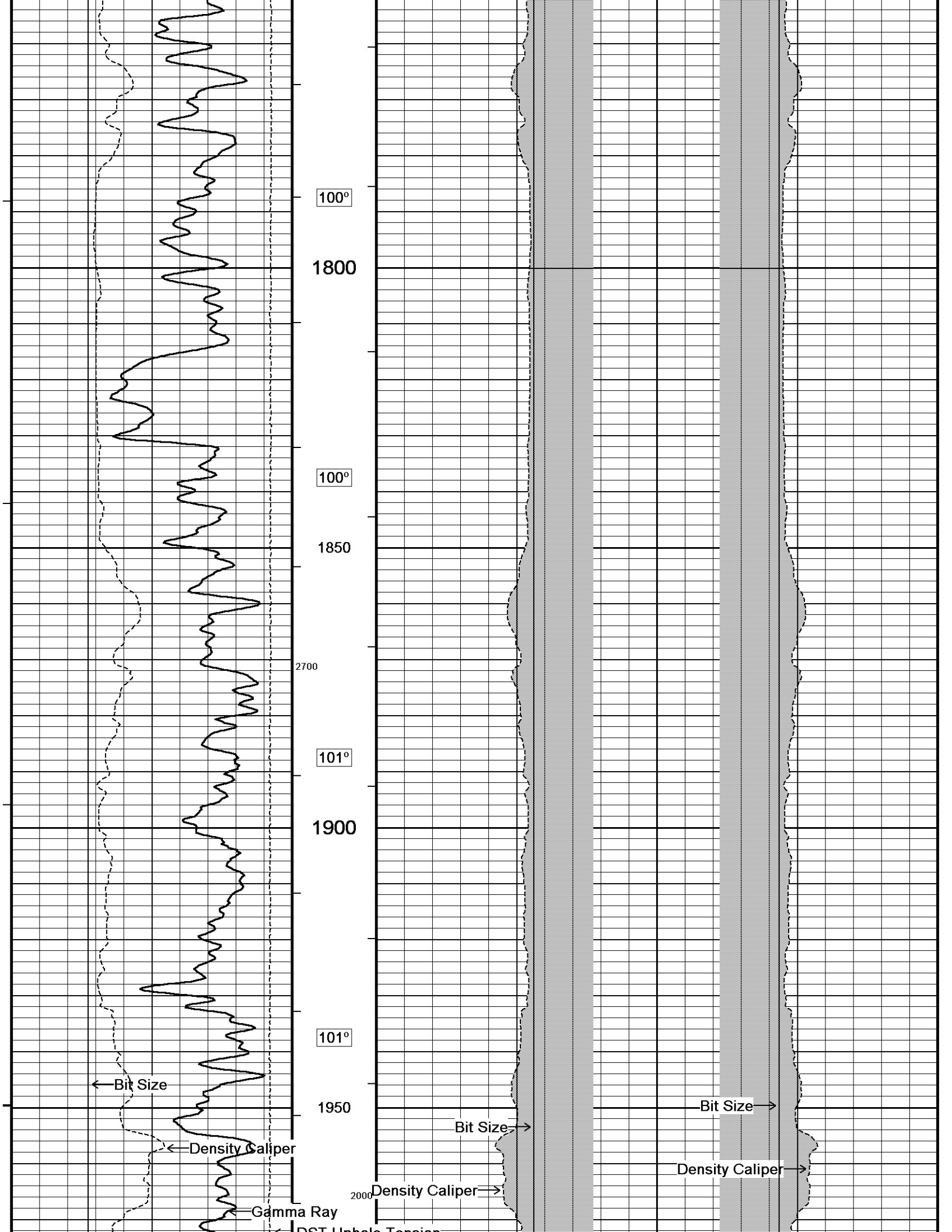


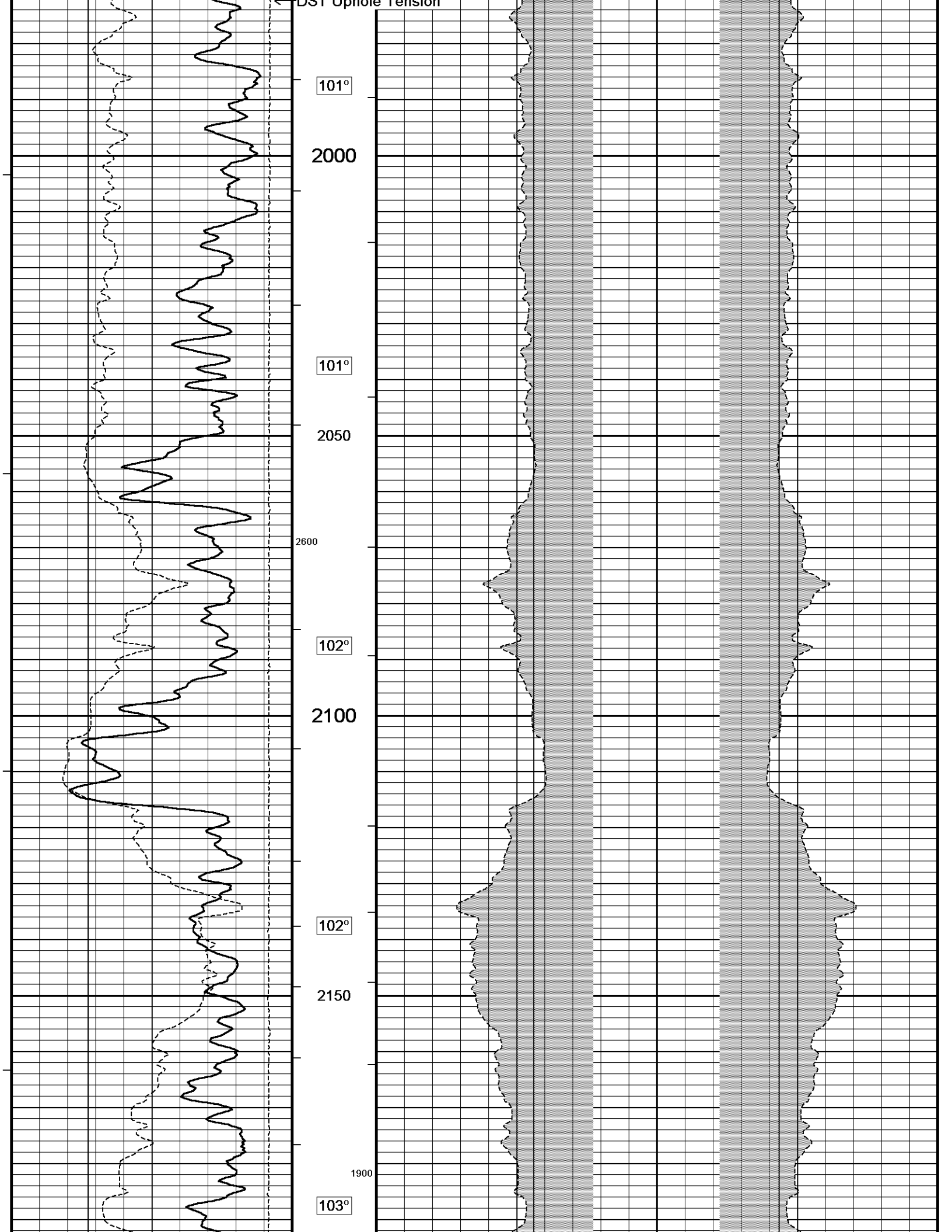


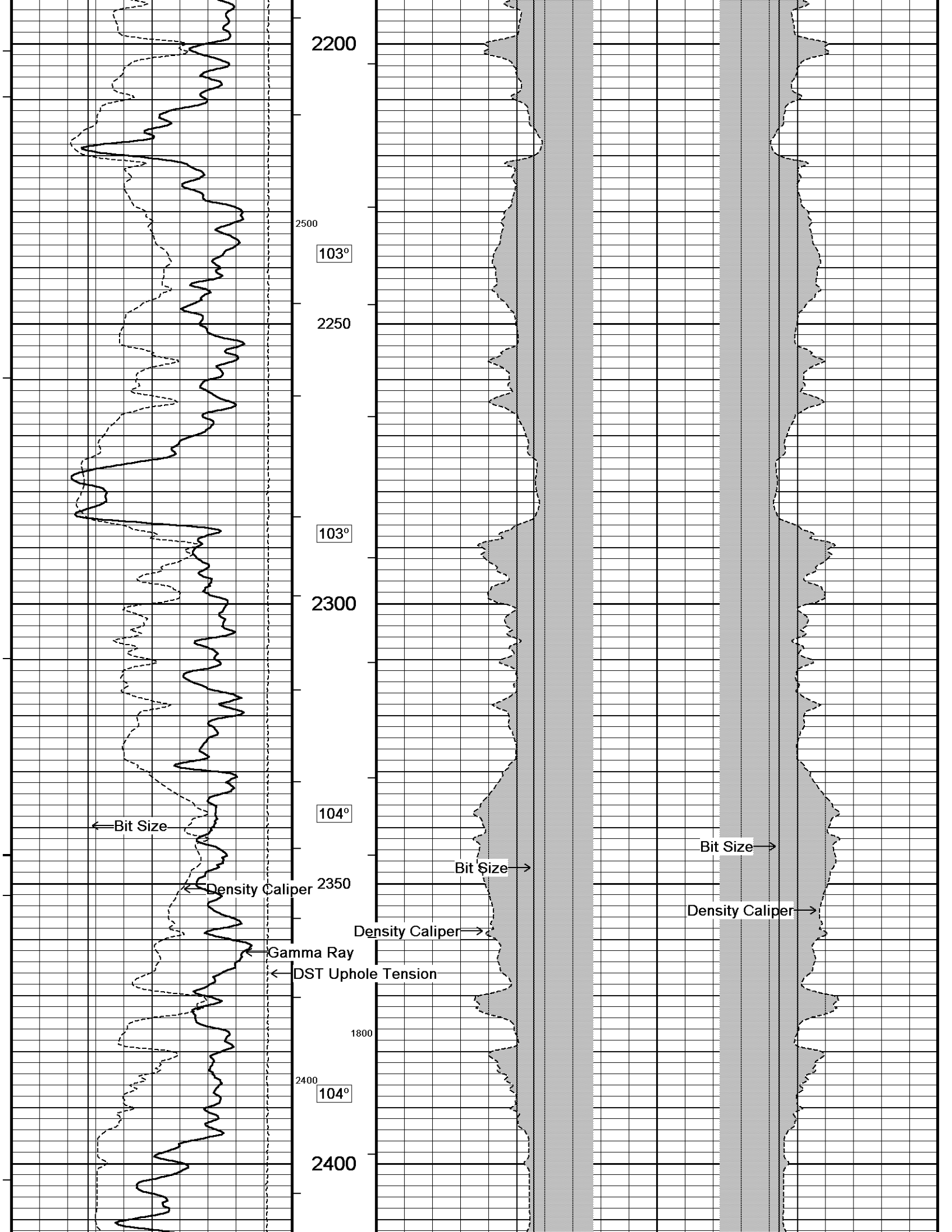


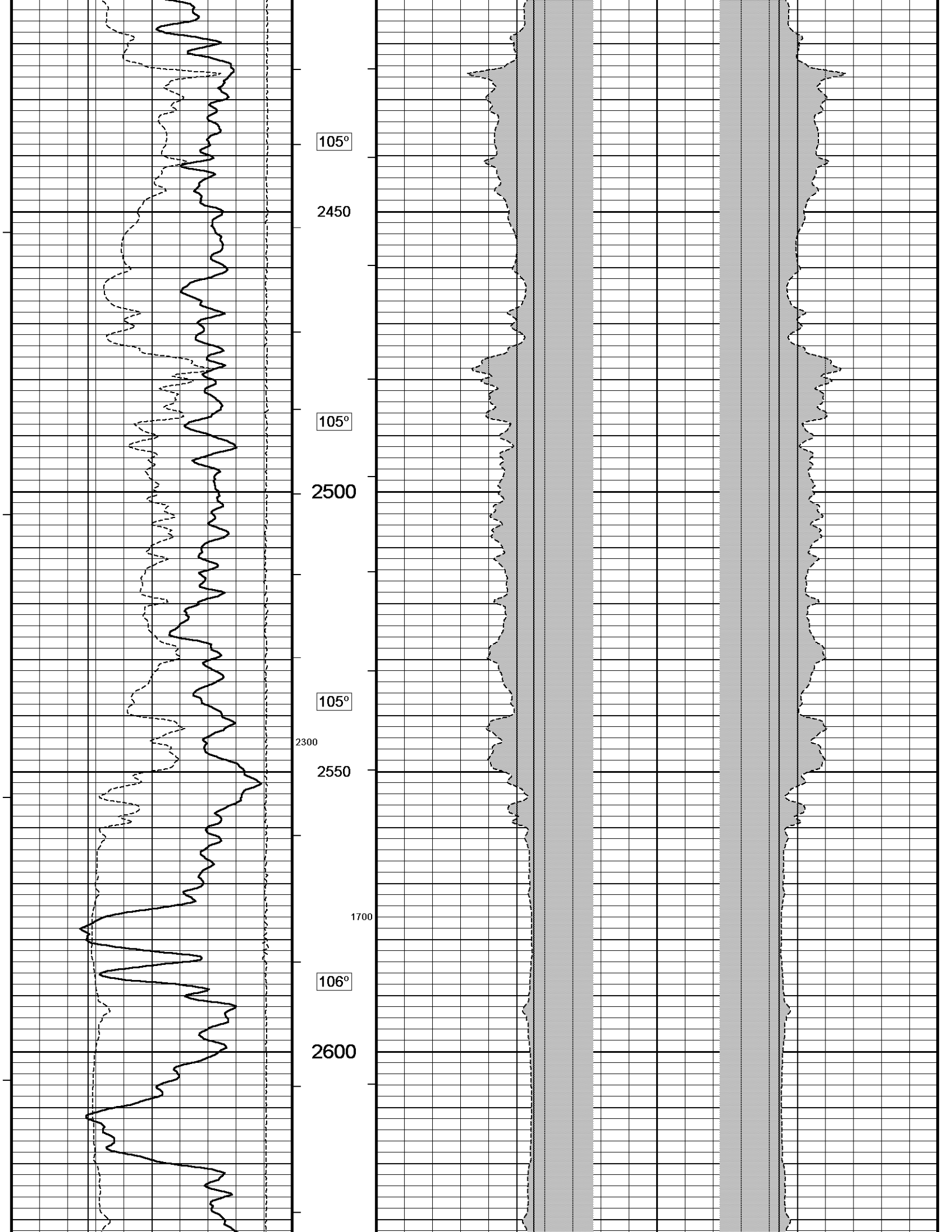


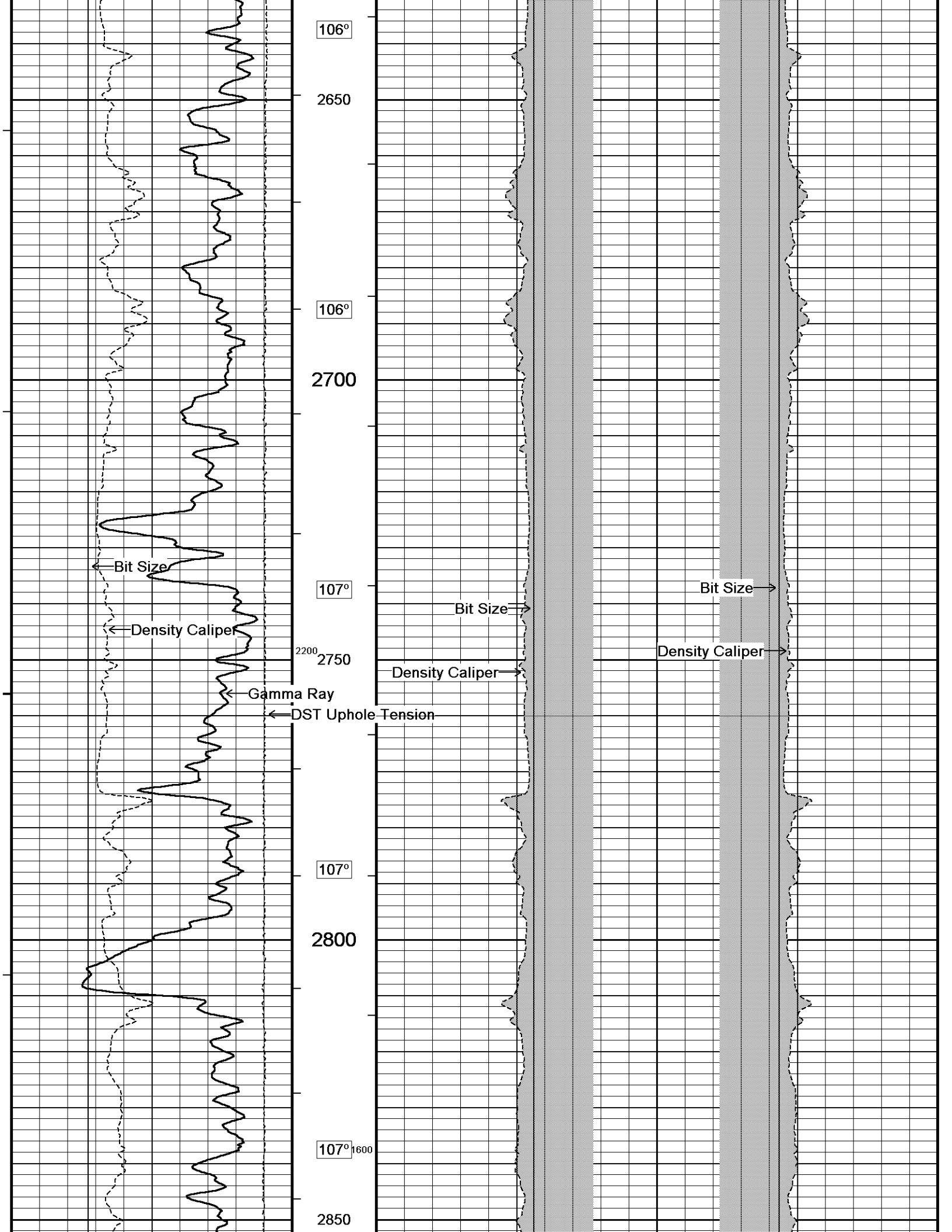


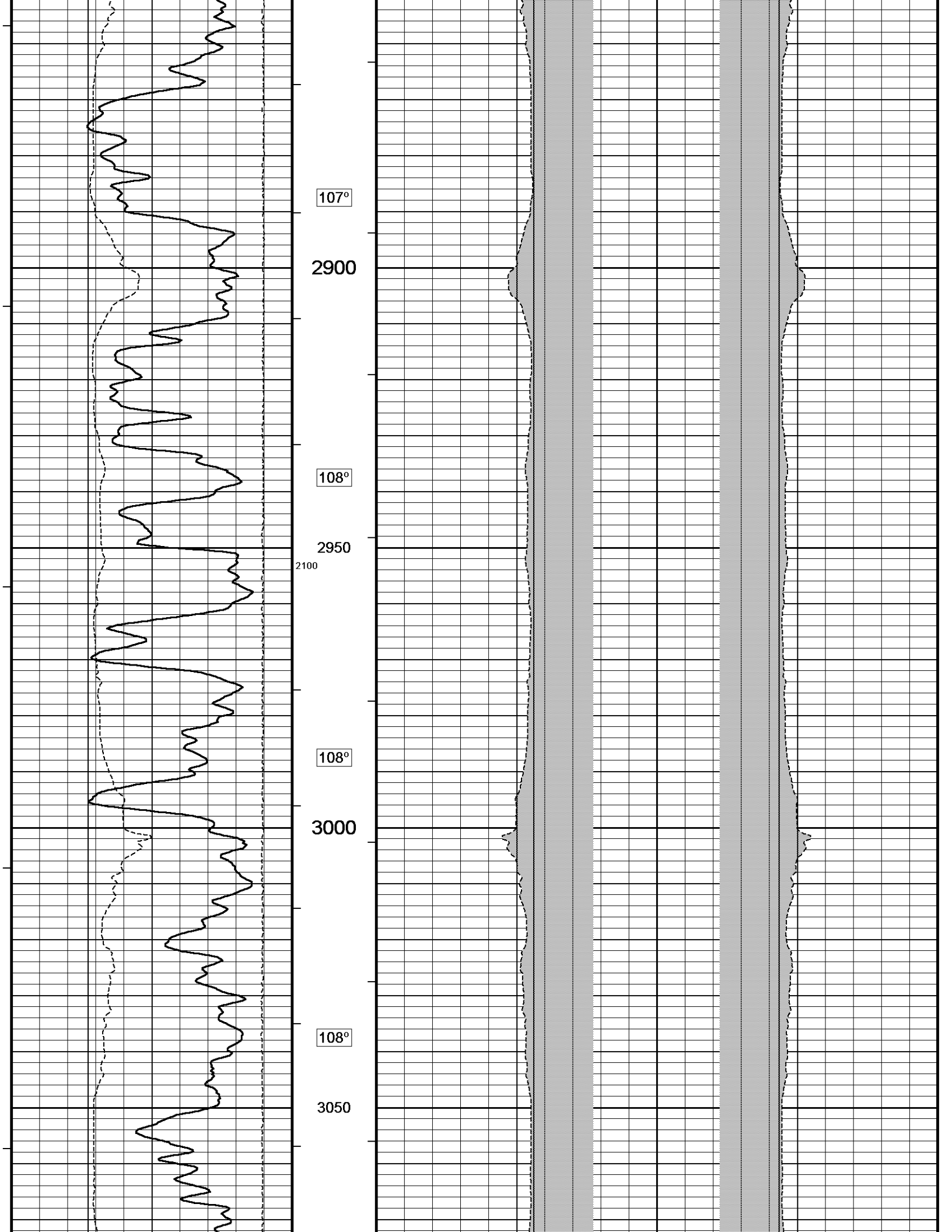


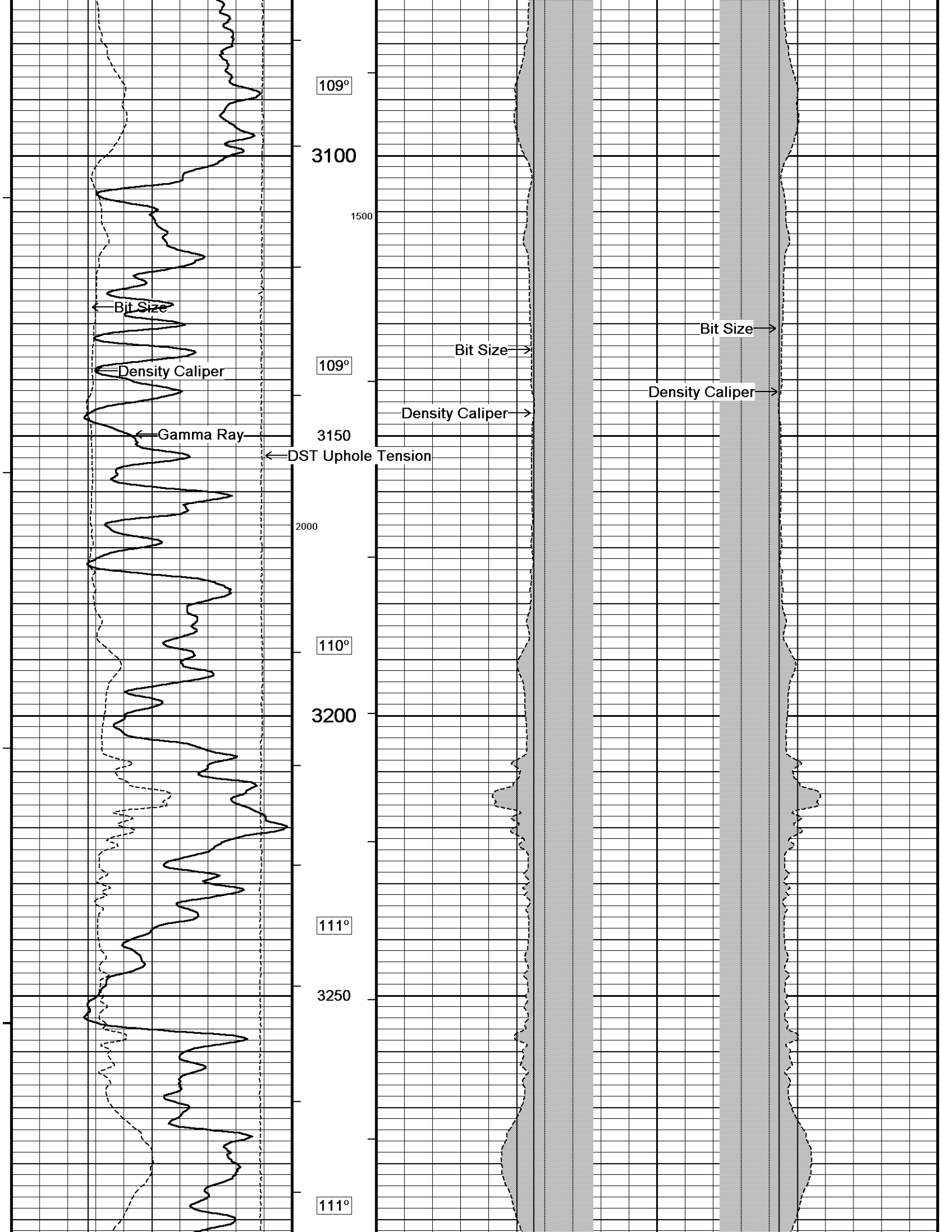


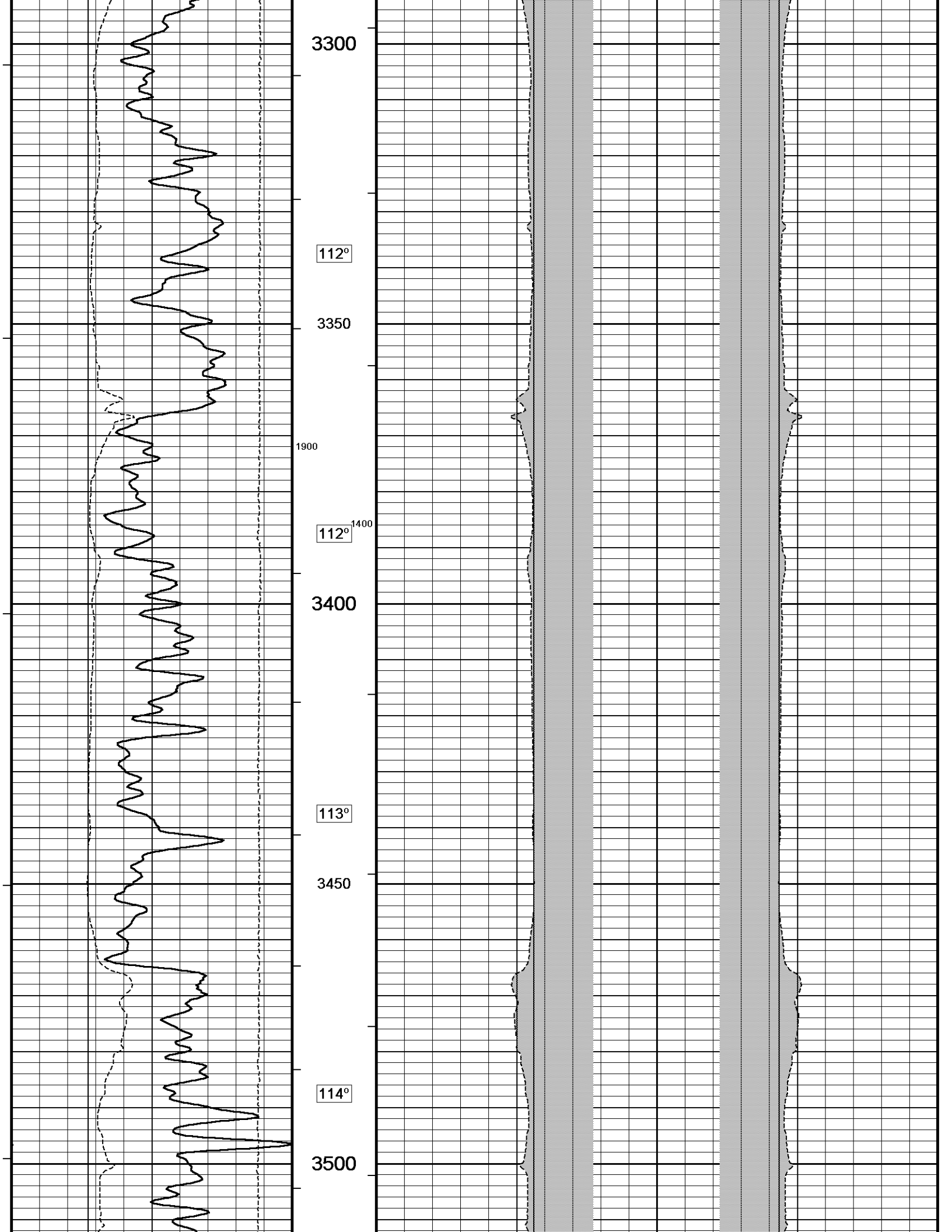


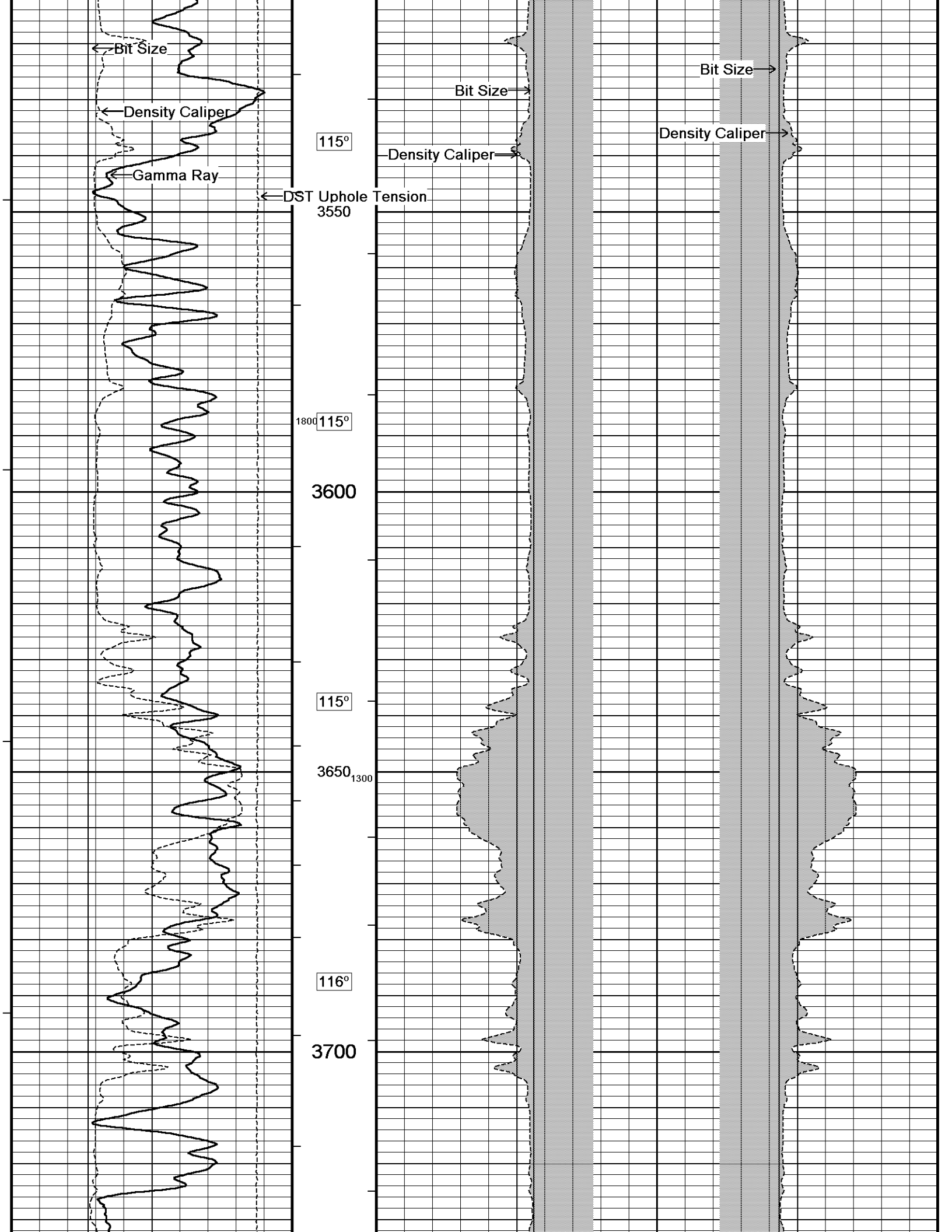


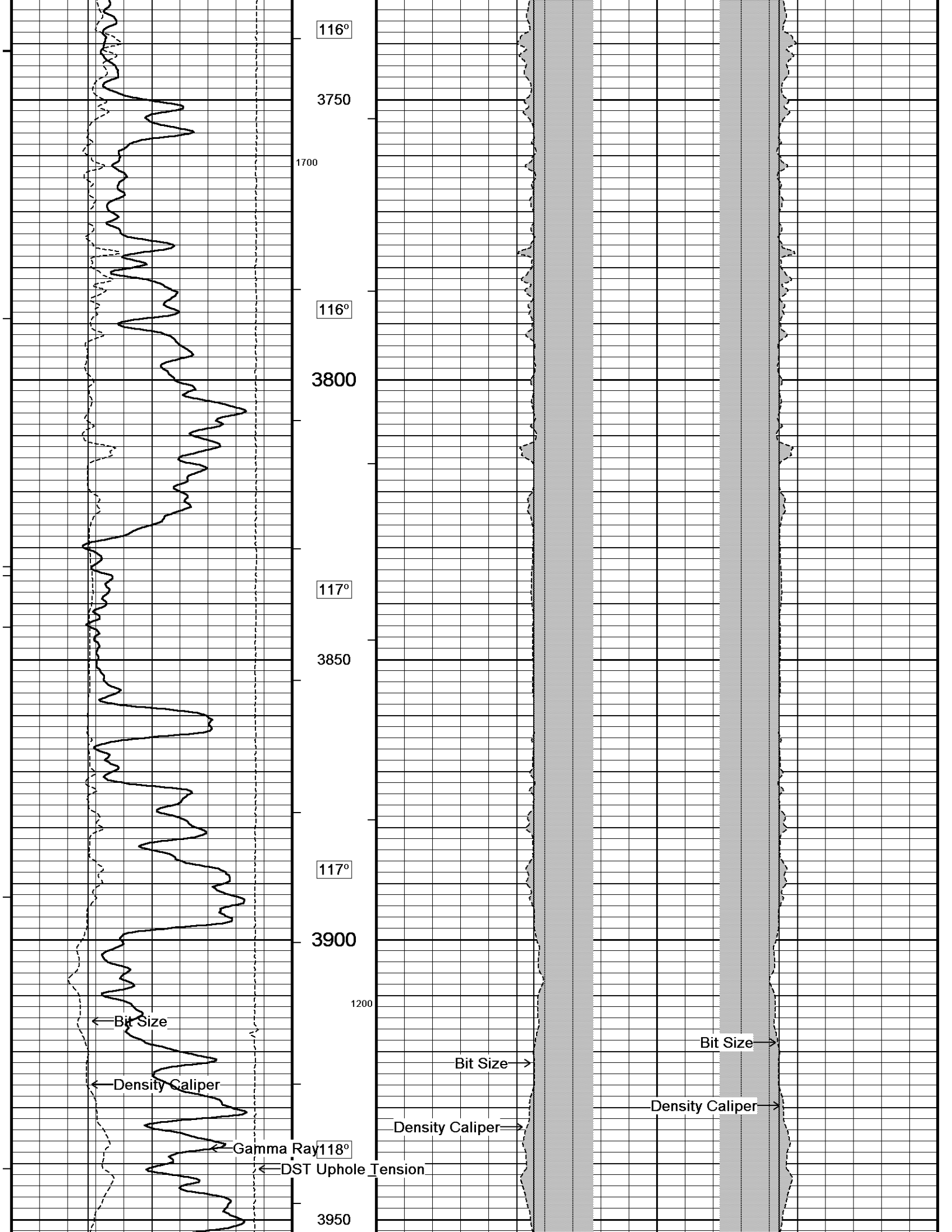


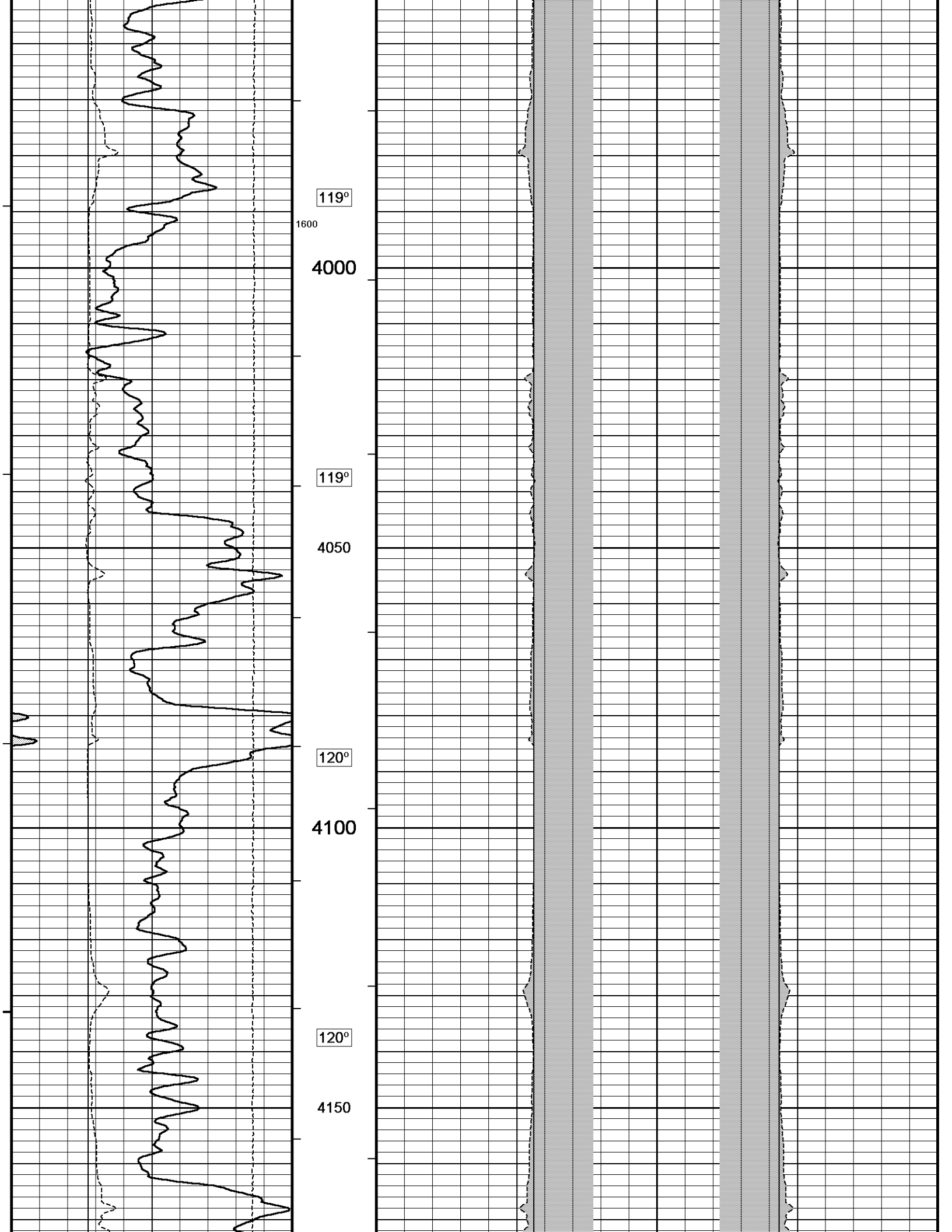


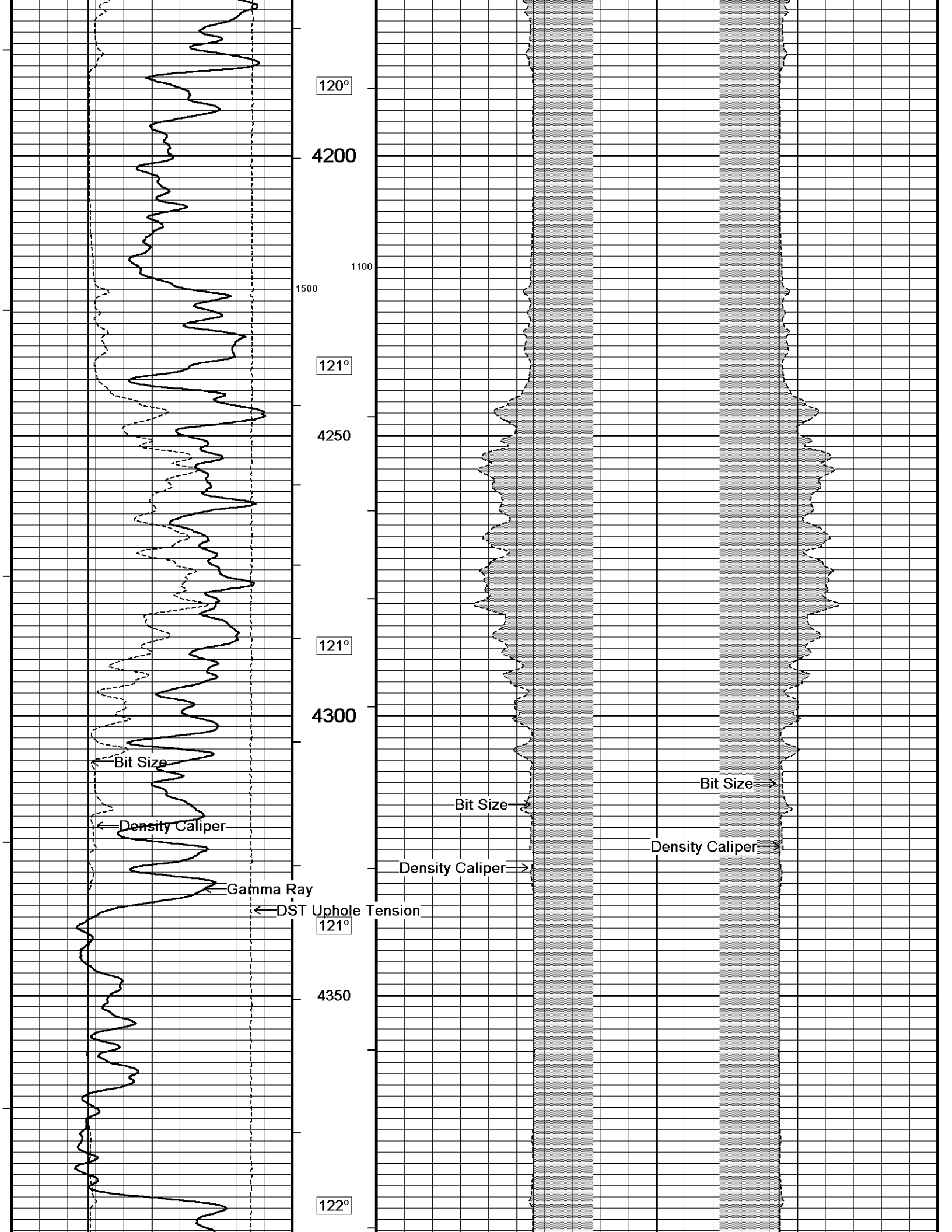


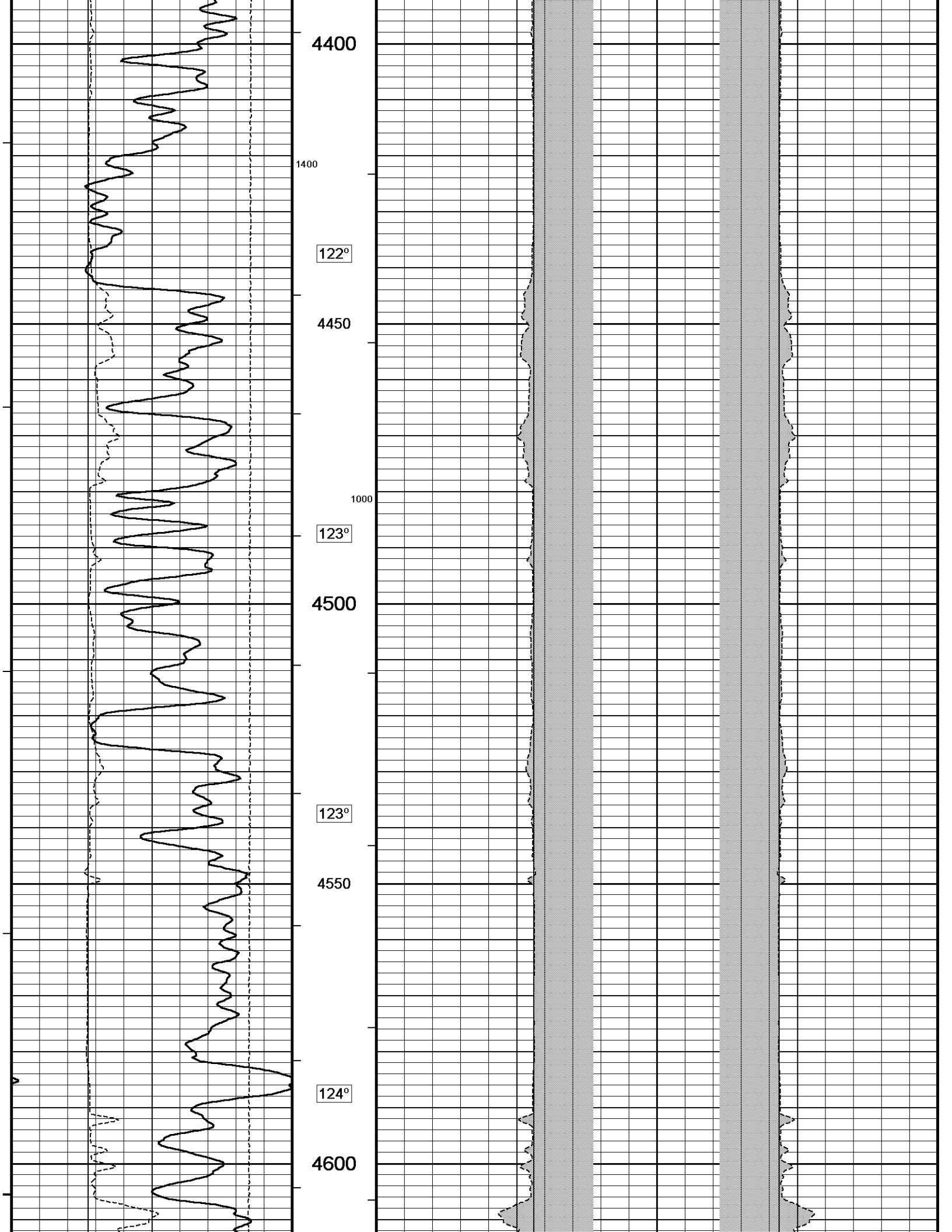


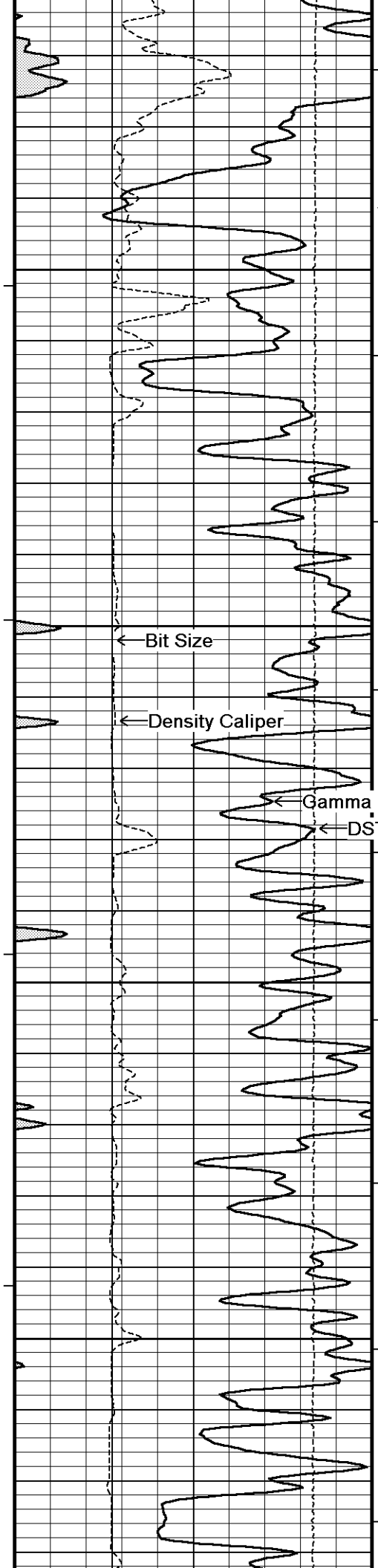












124°

1300

4650

125°

4700

← Bit Size

← Density Caliper

← Gamma Ray

← DST Uphole Tension

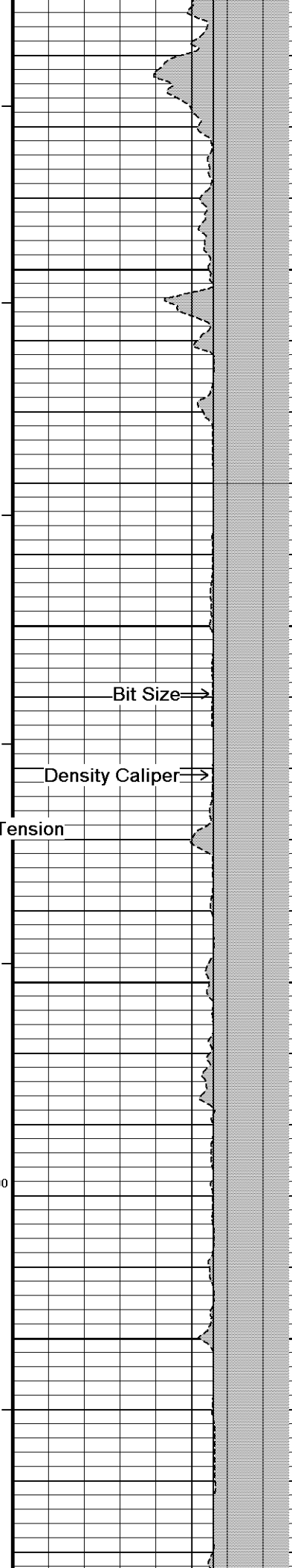
125°

4750

900

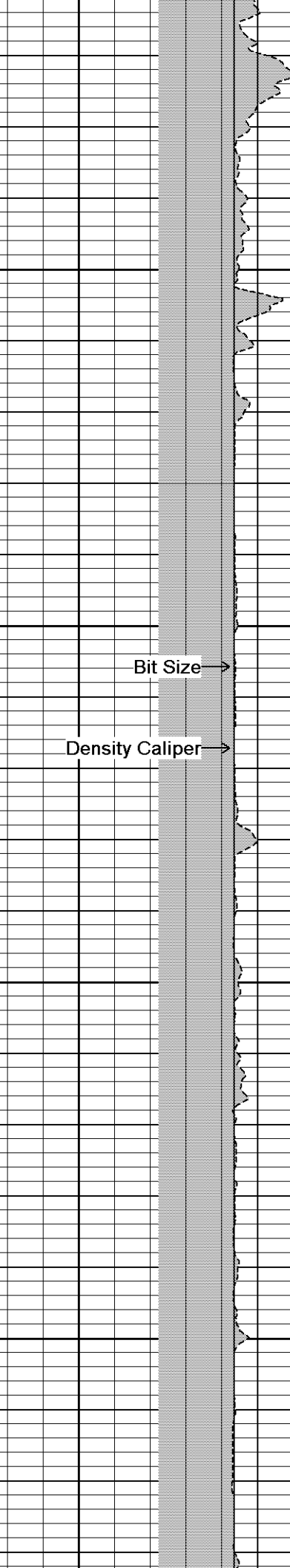
126°

4800



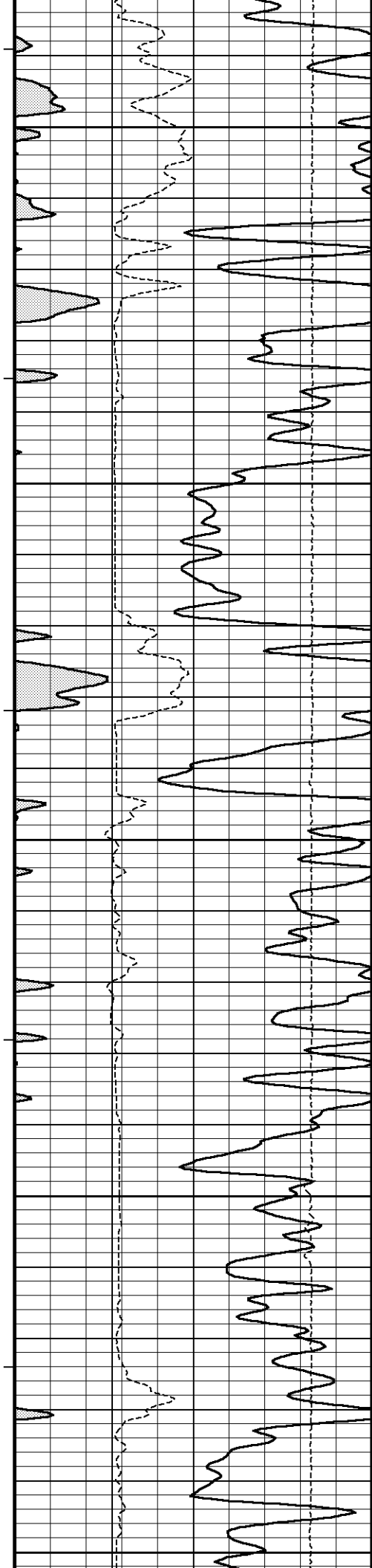
Bit Size →

Density Caliper →

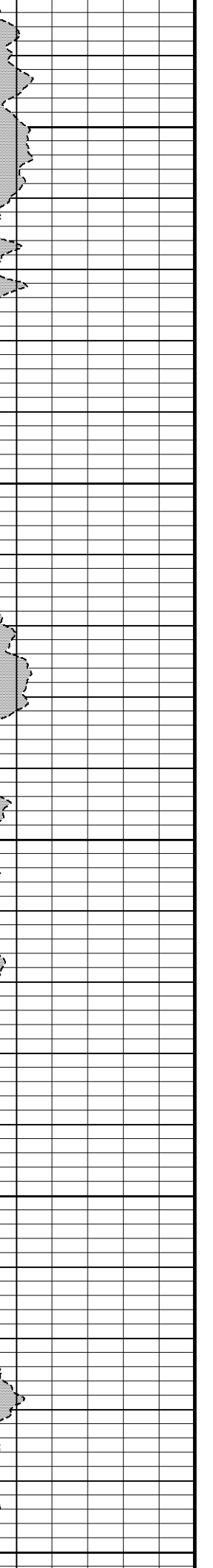
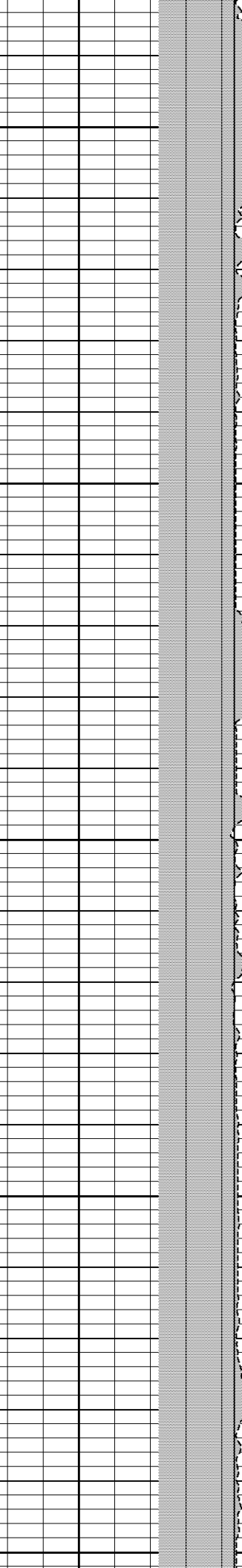
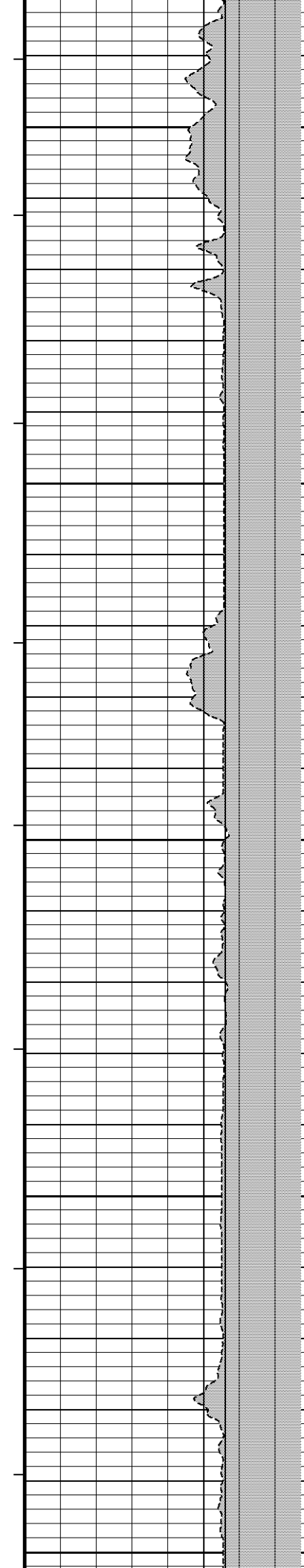


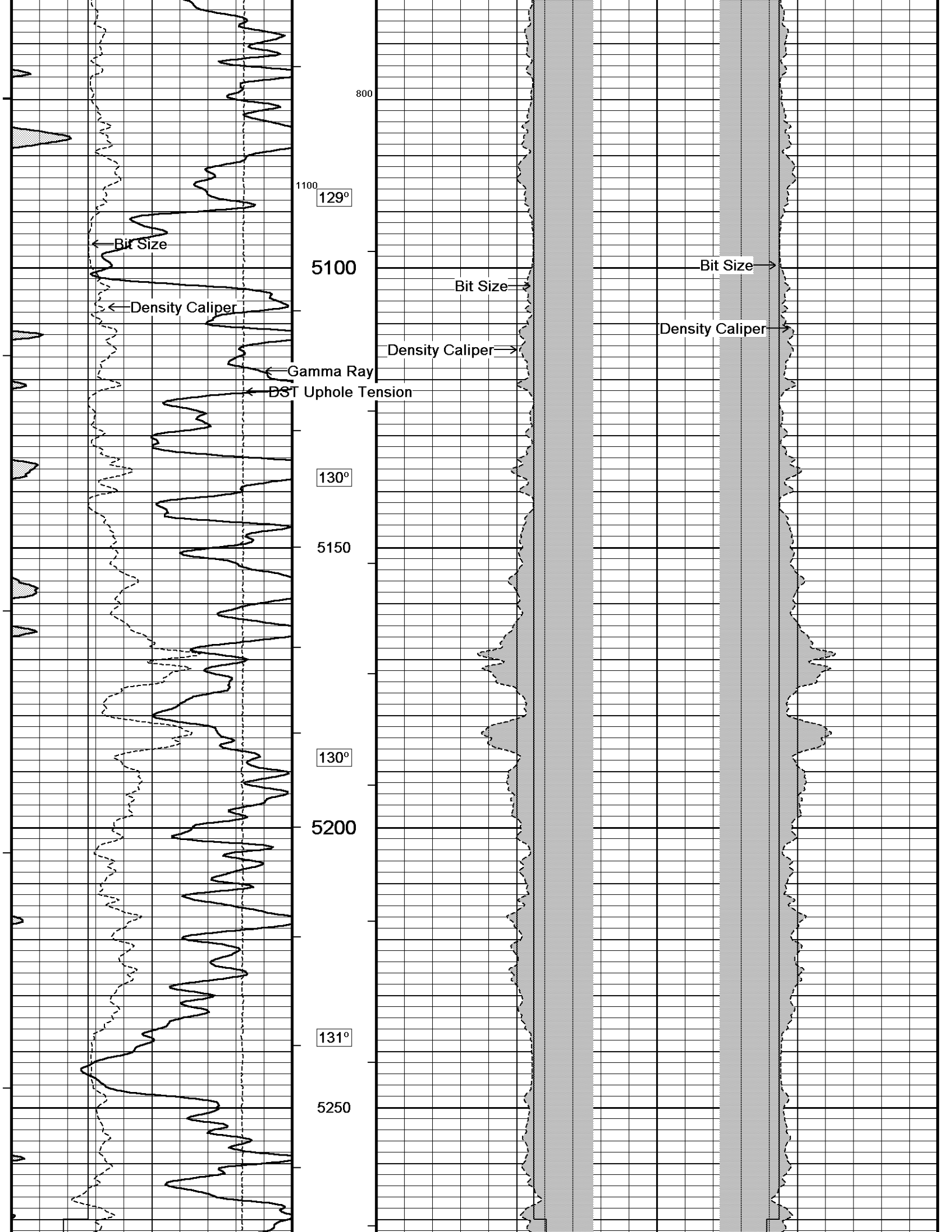
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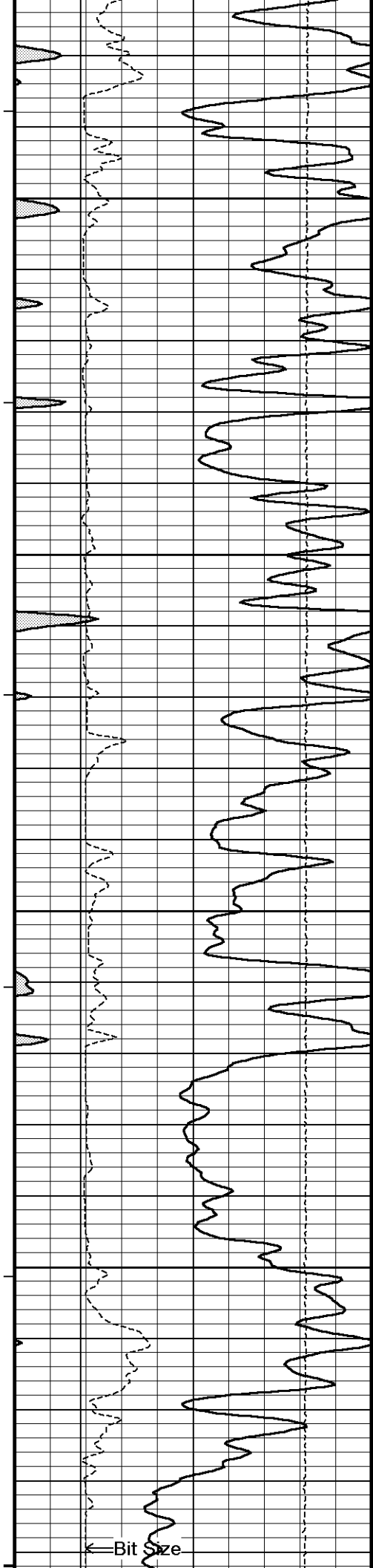
Density Caliper →



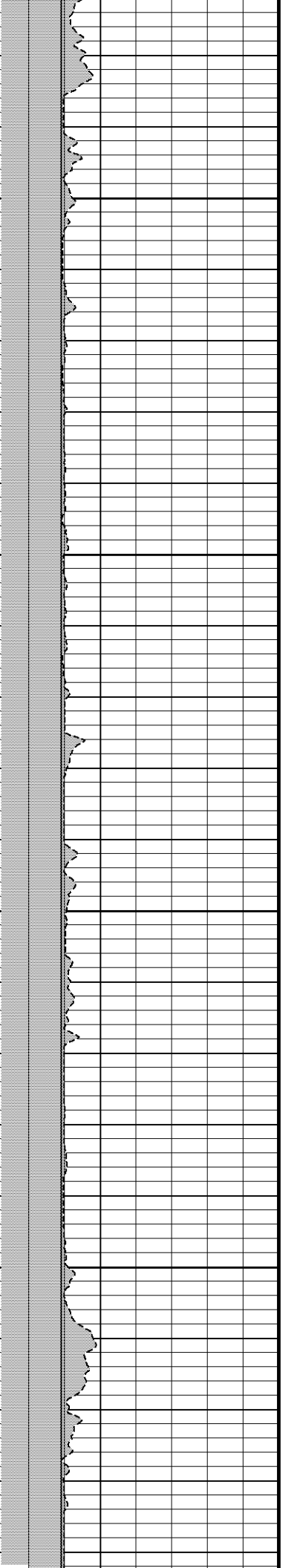
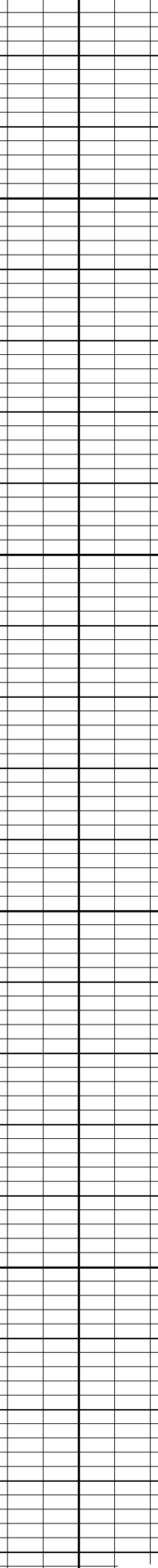
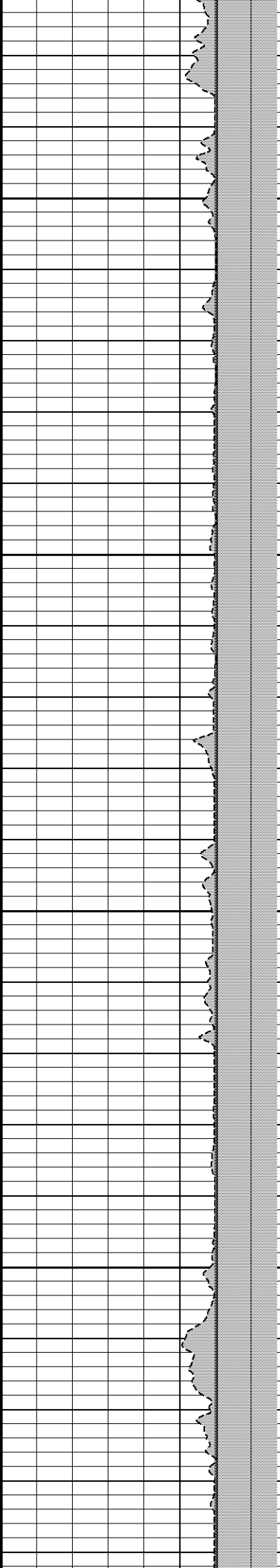
126°
4850
1200
127°
4900
127°
4950
128°
5000
128°
5050

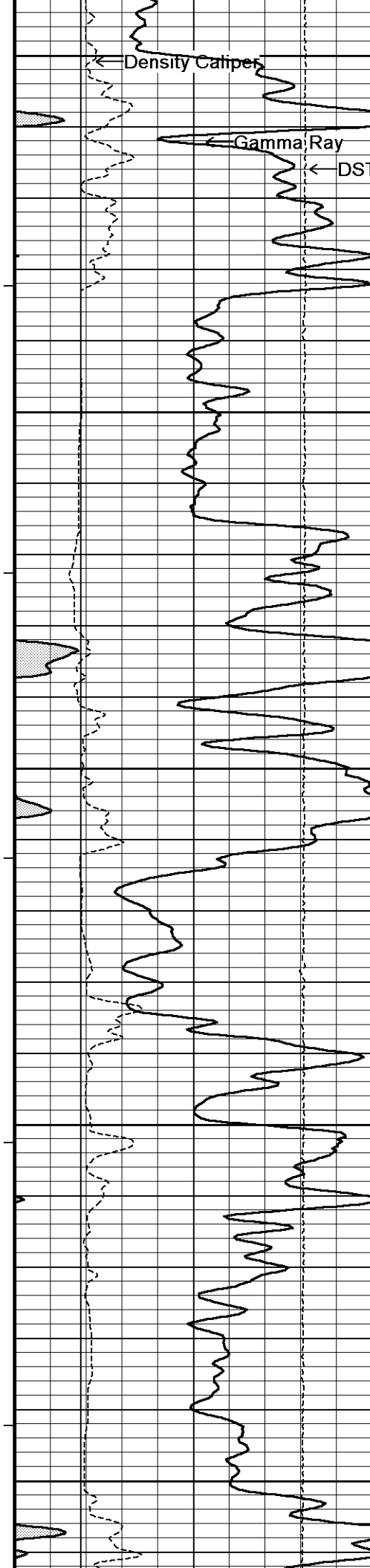






1000
131°
5300
132°
700
5350
132°
5400
133°
5450
134°





5500
5550
5600
5650
5700

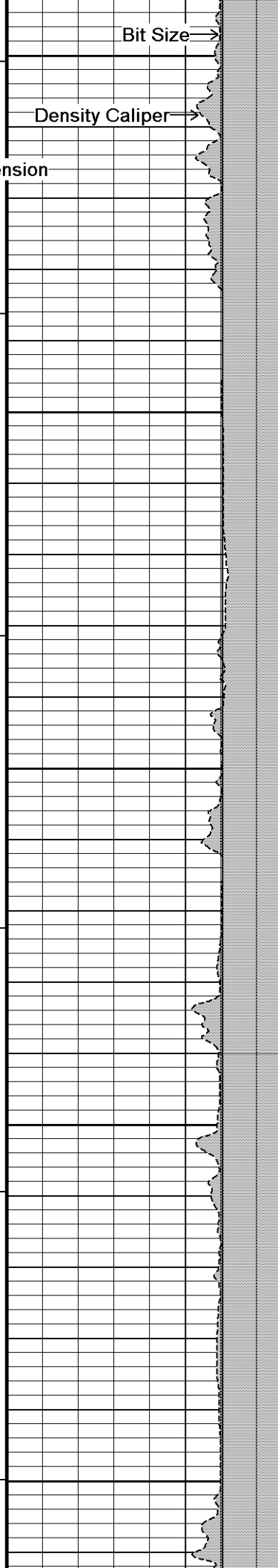
134°

135°

136°

136°

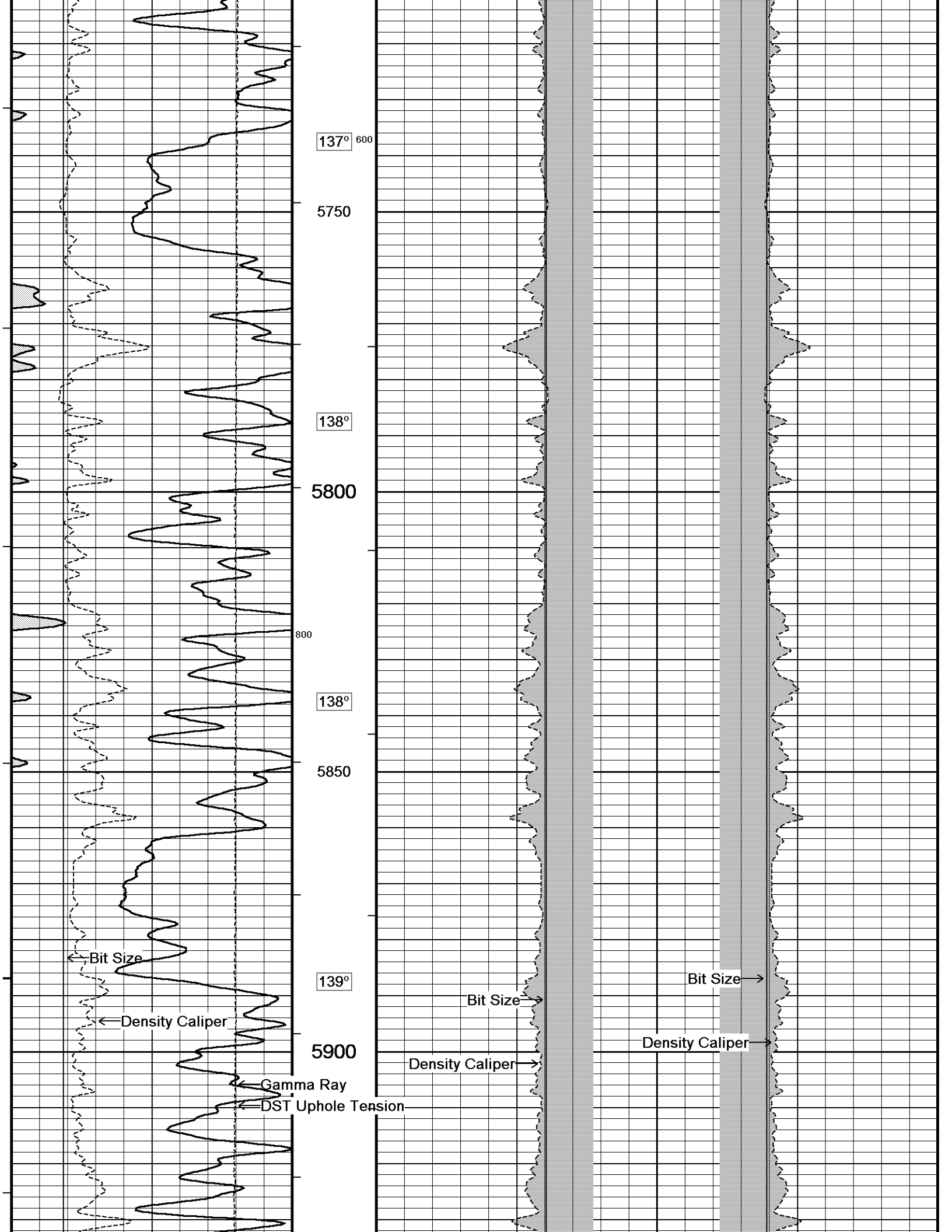
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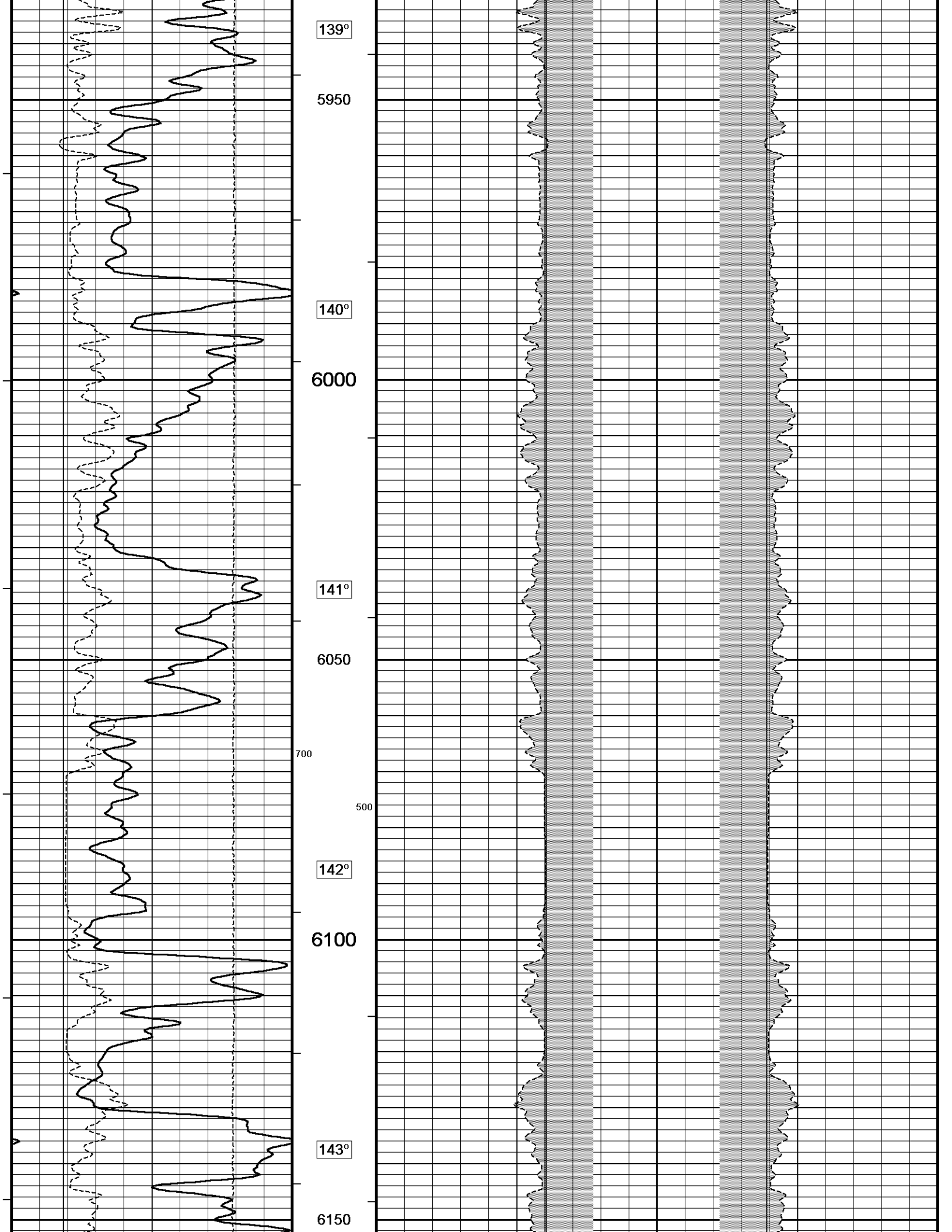


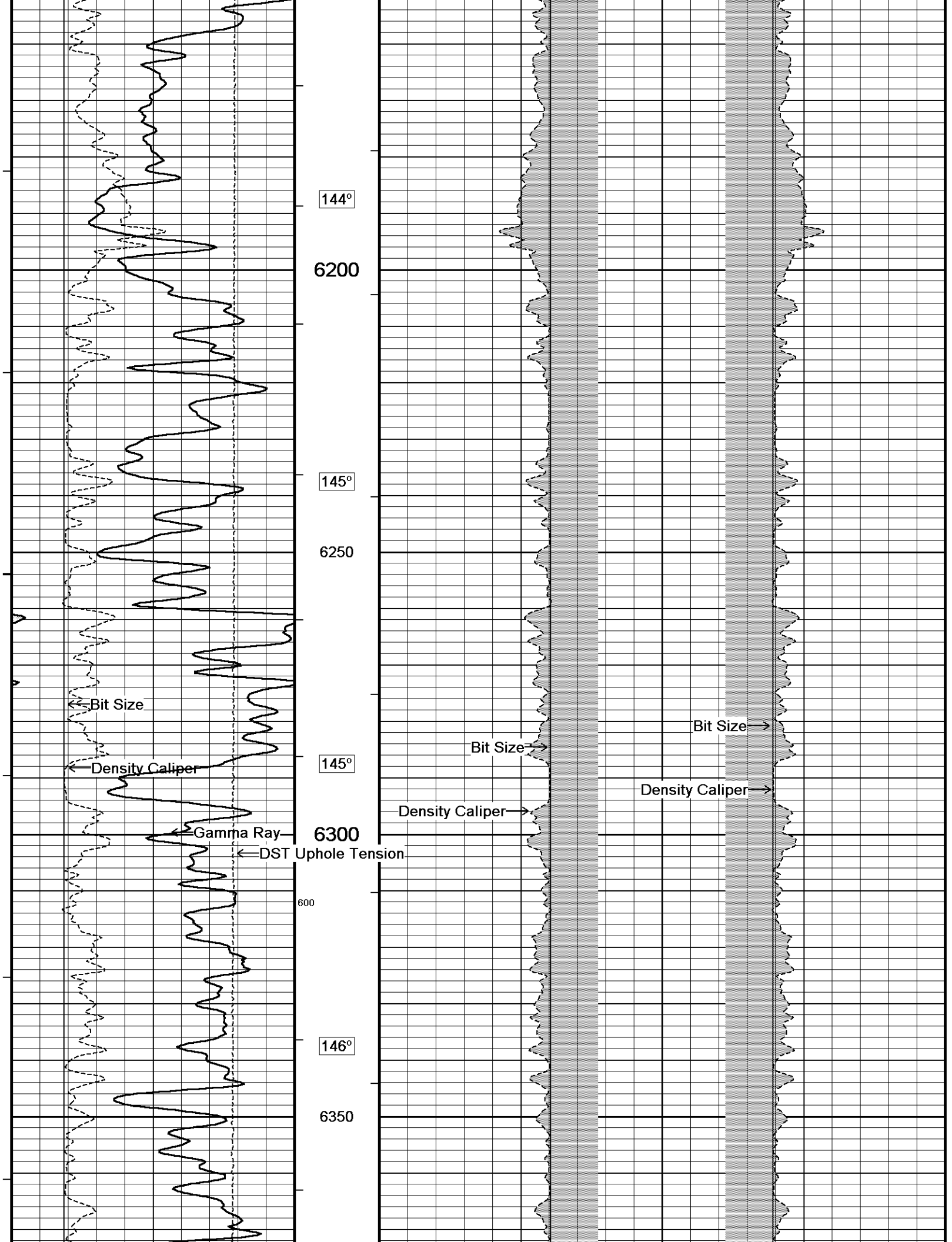
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5550
5600
5650
5700

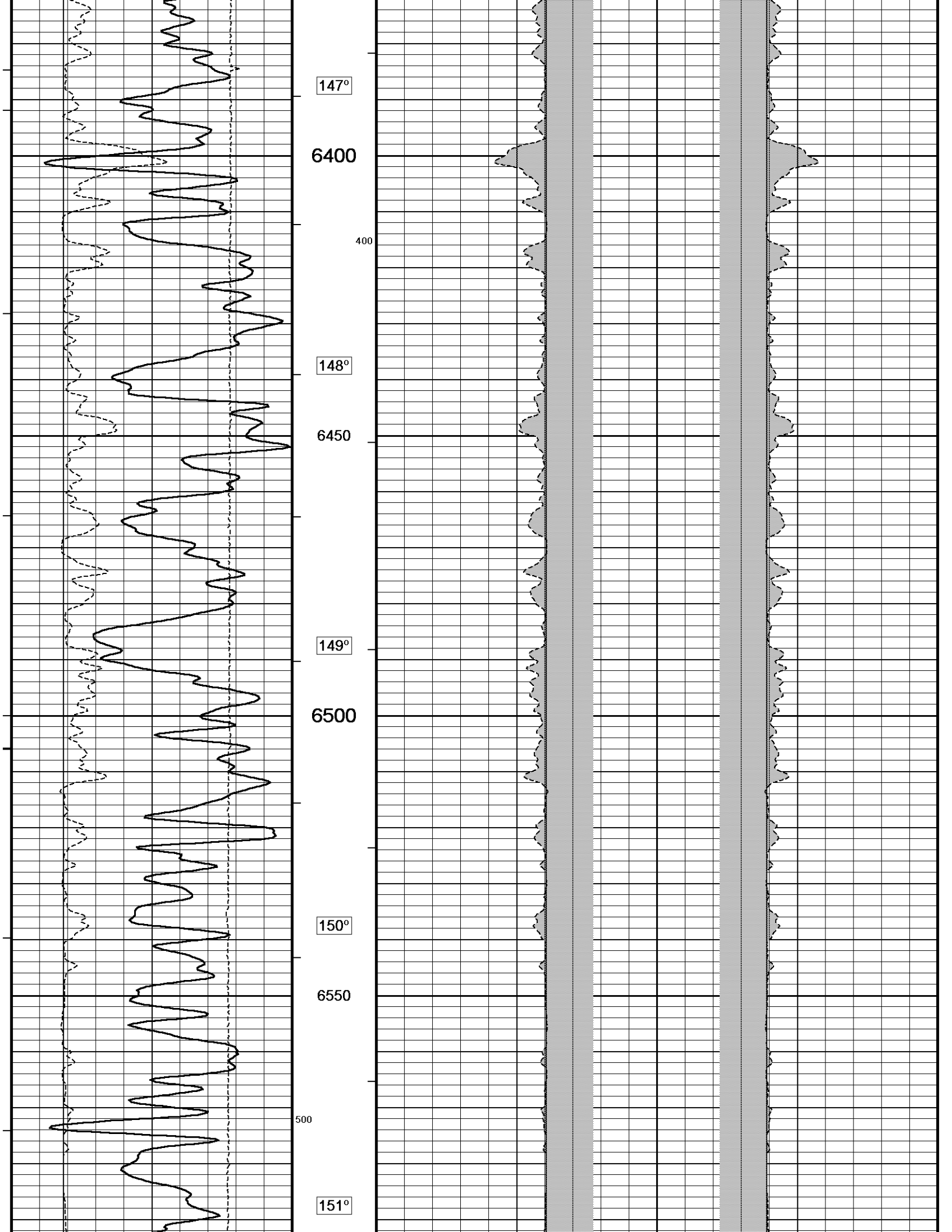
Density Caliper

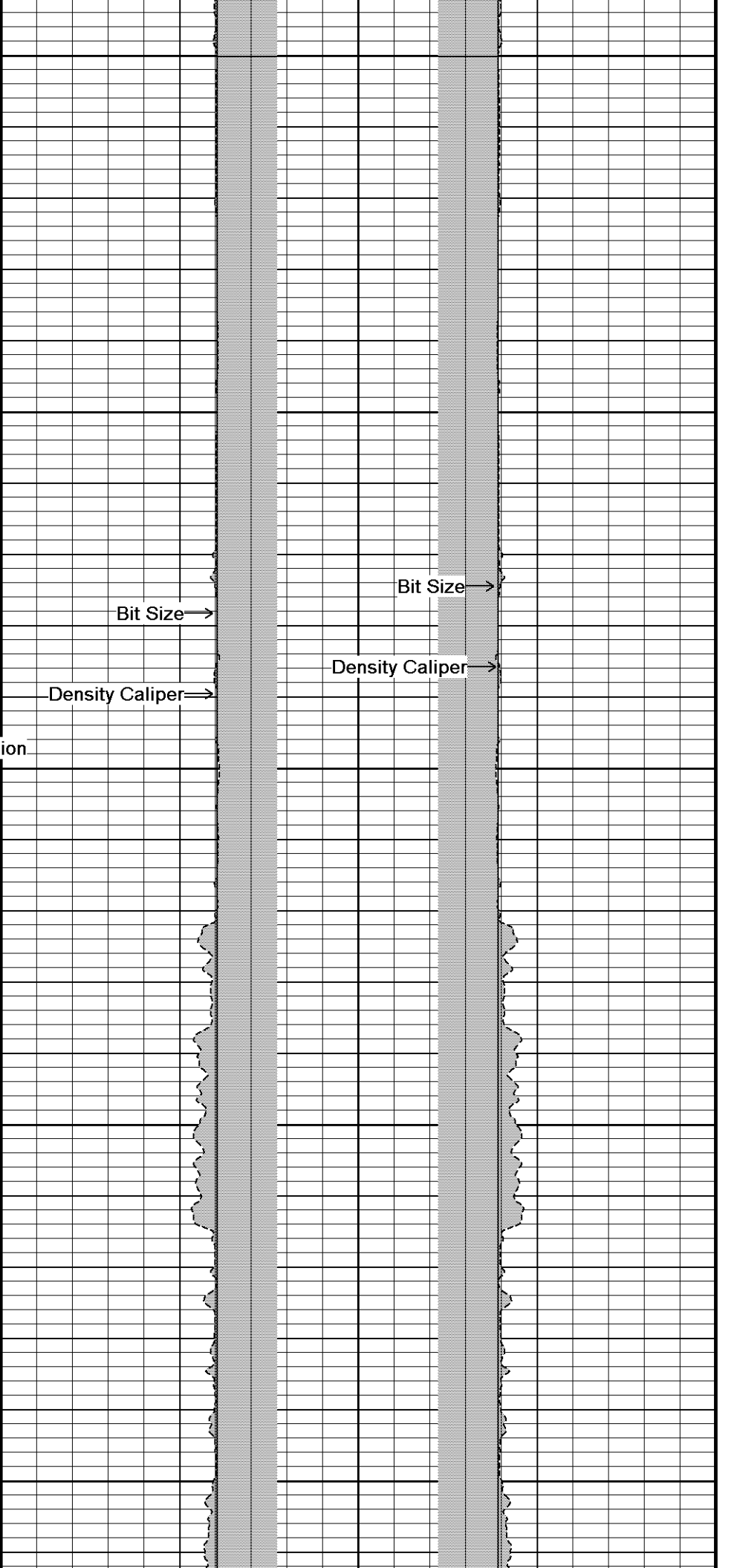
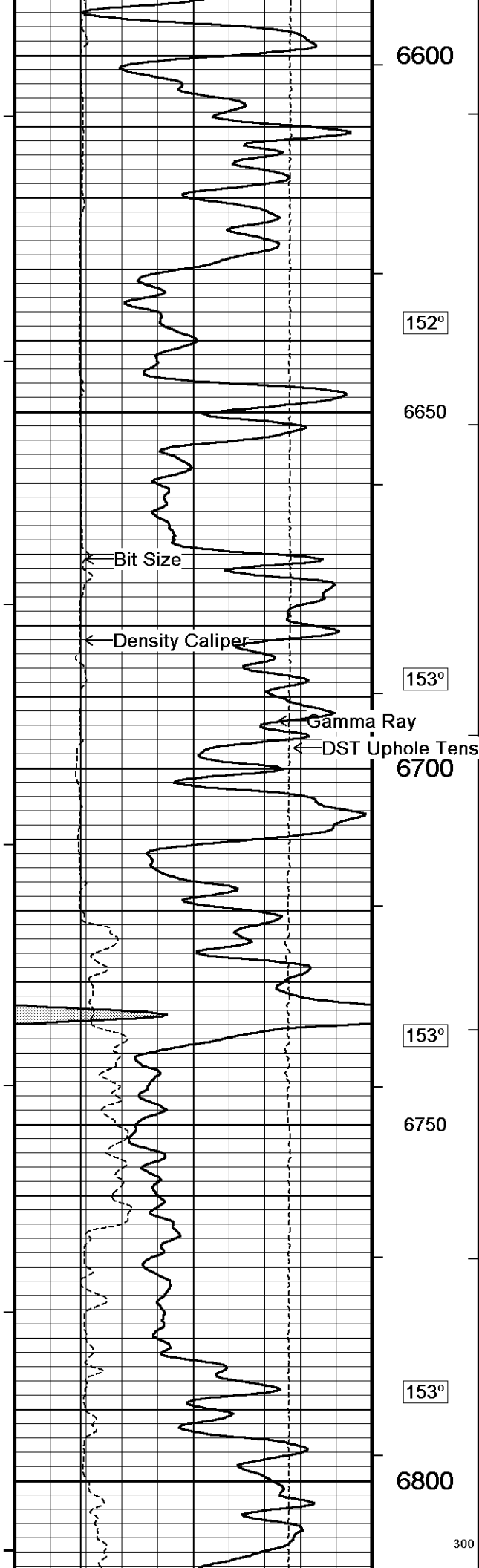
Bit Size

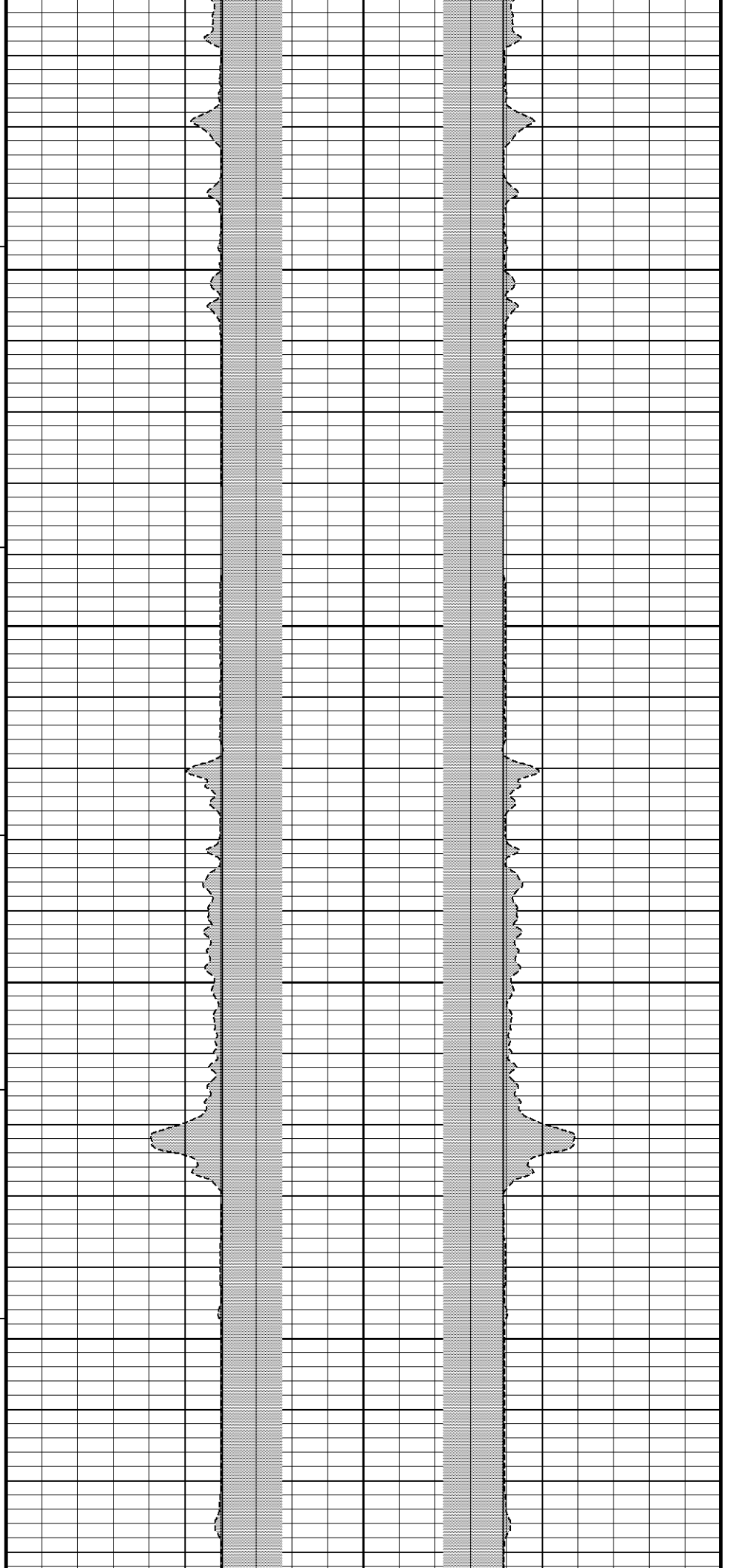
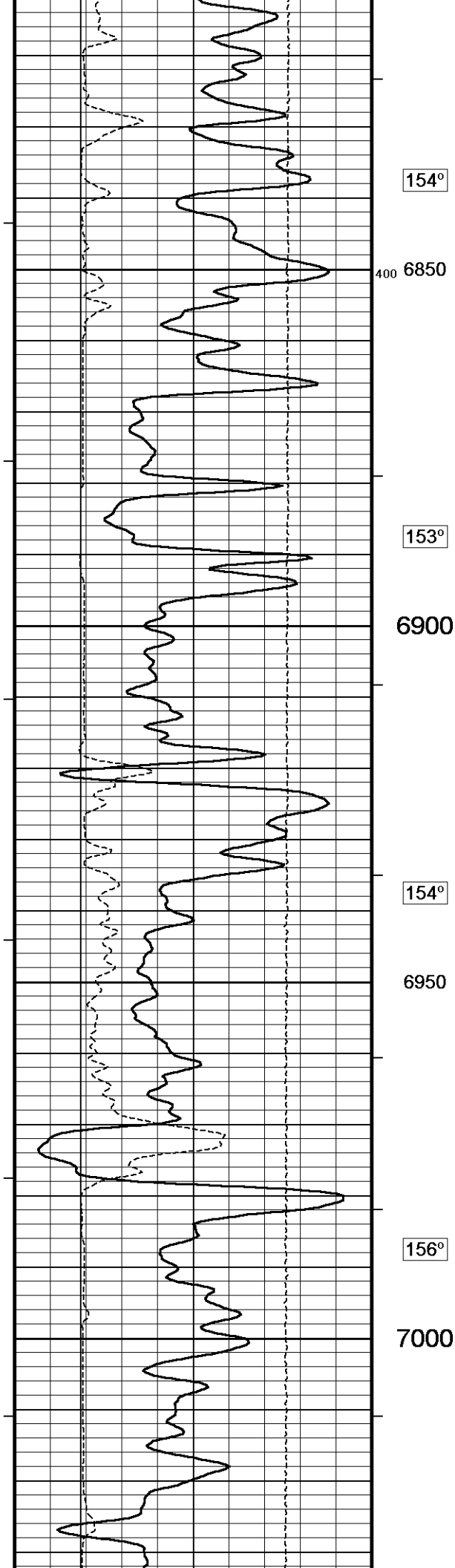


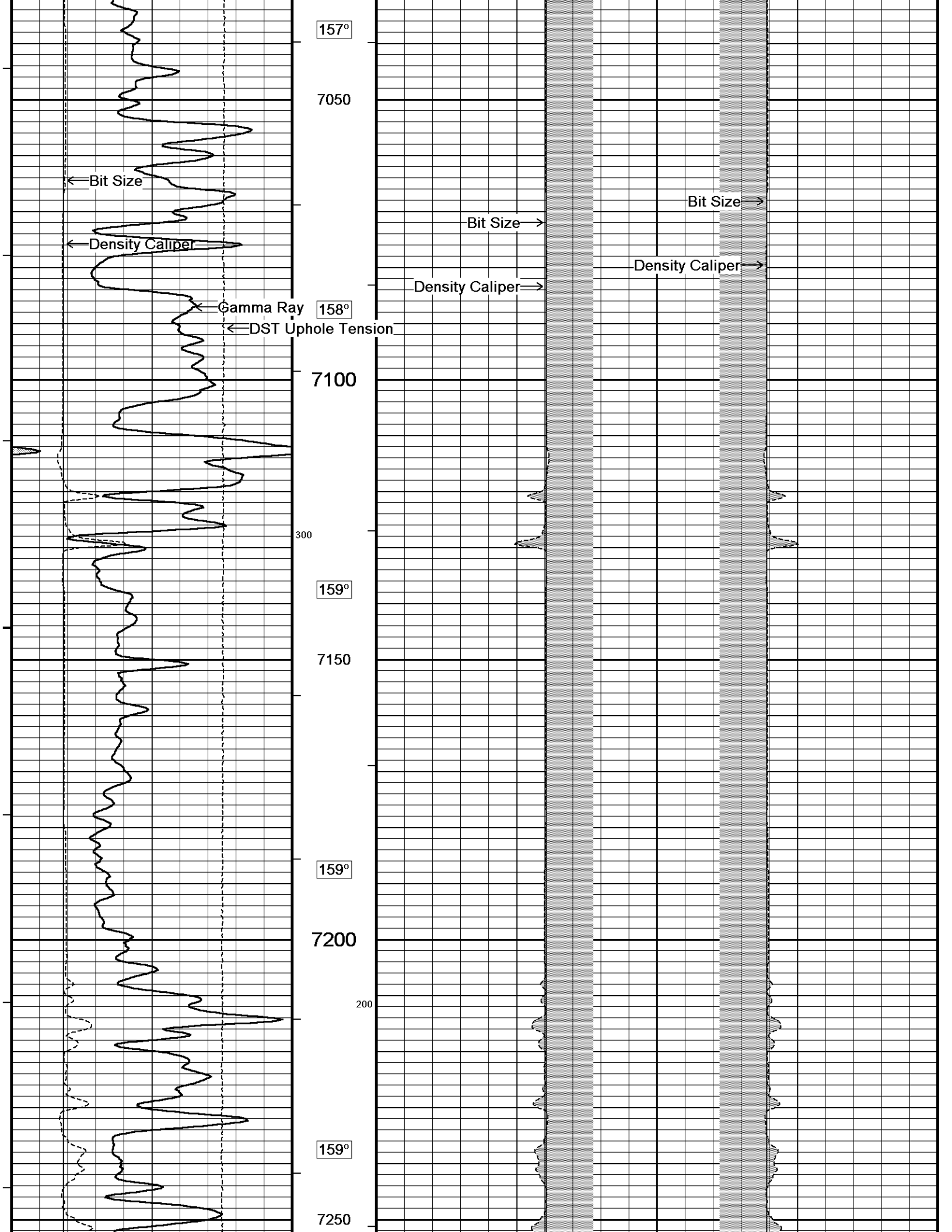


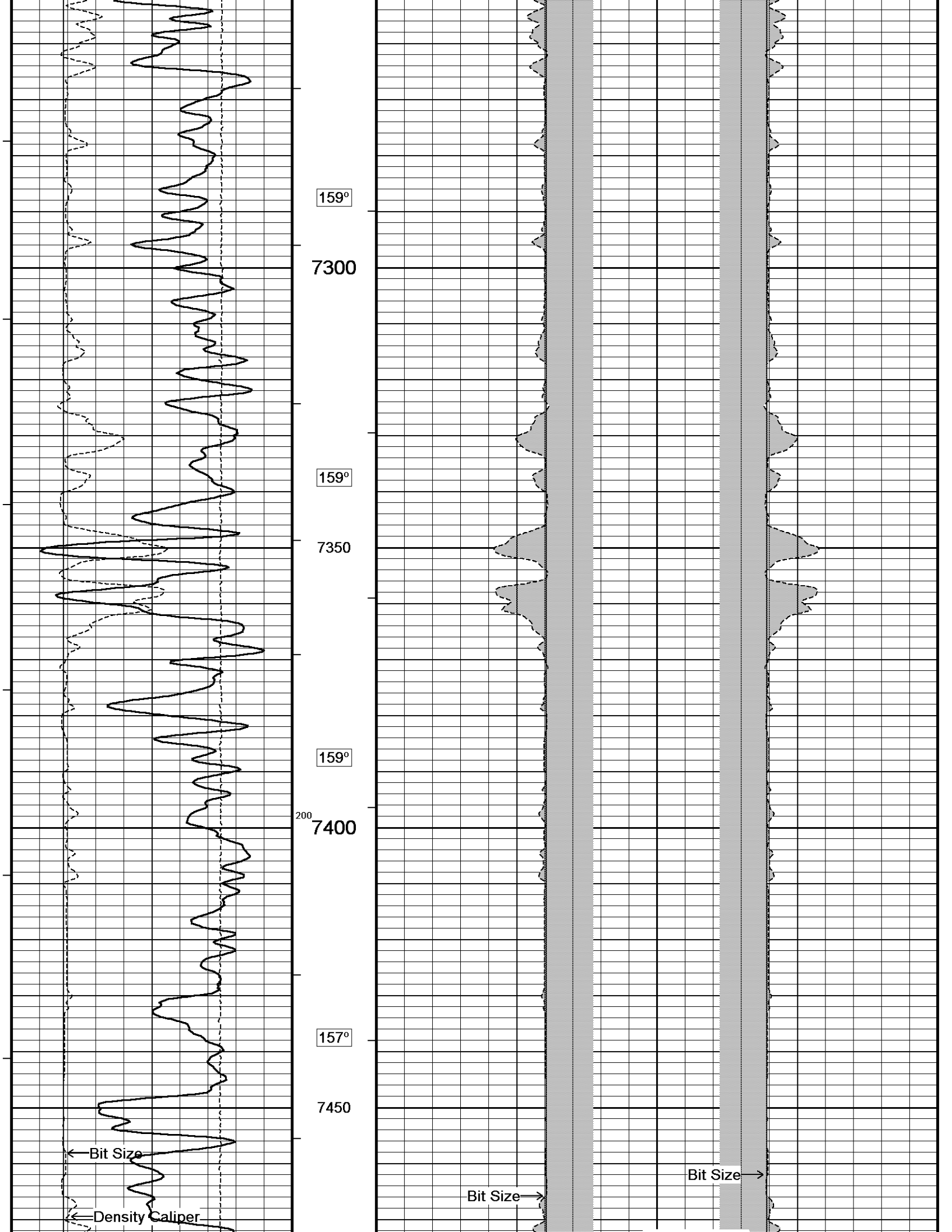


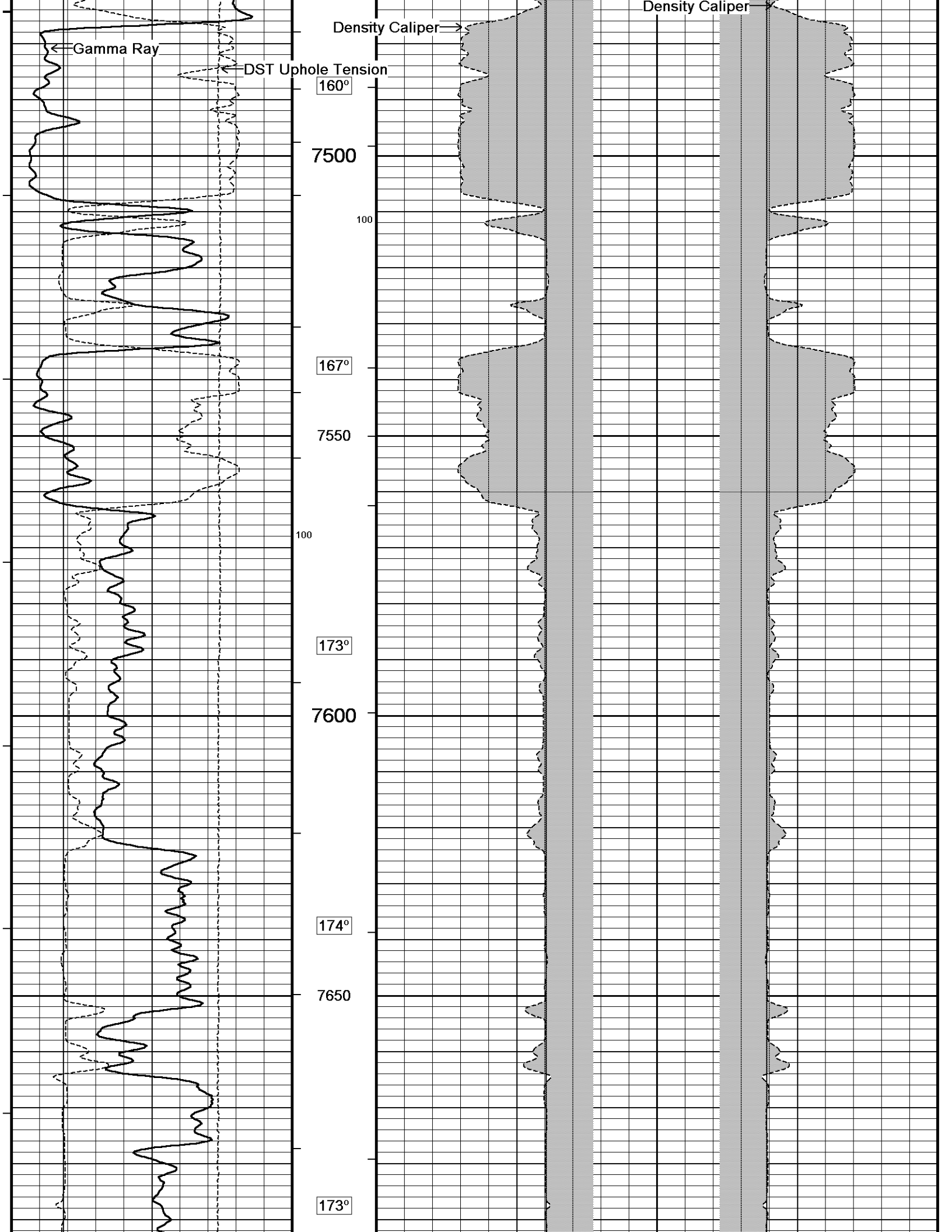


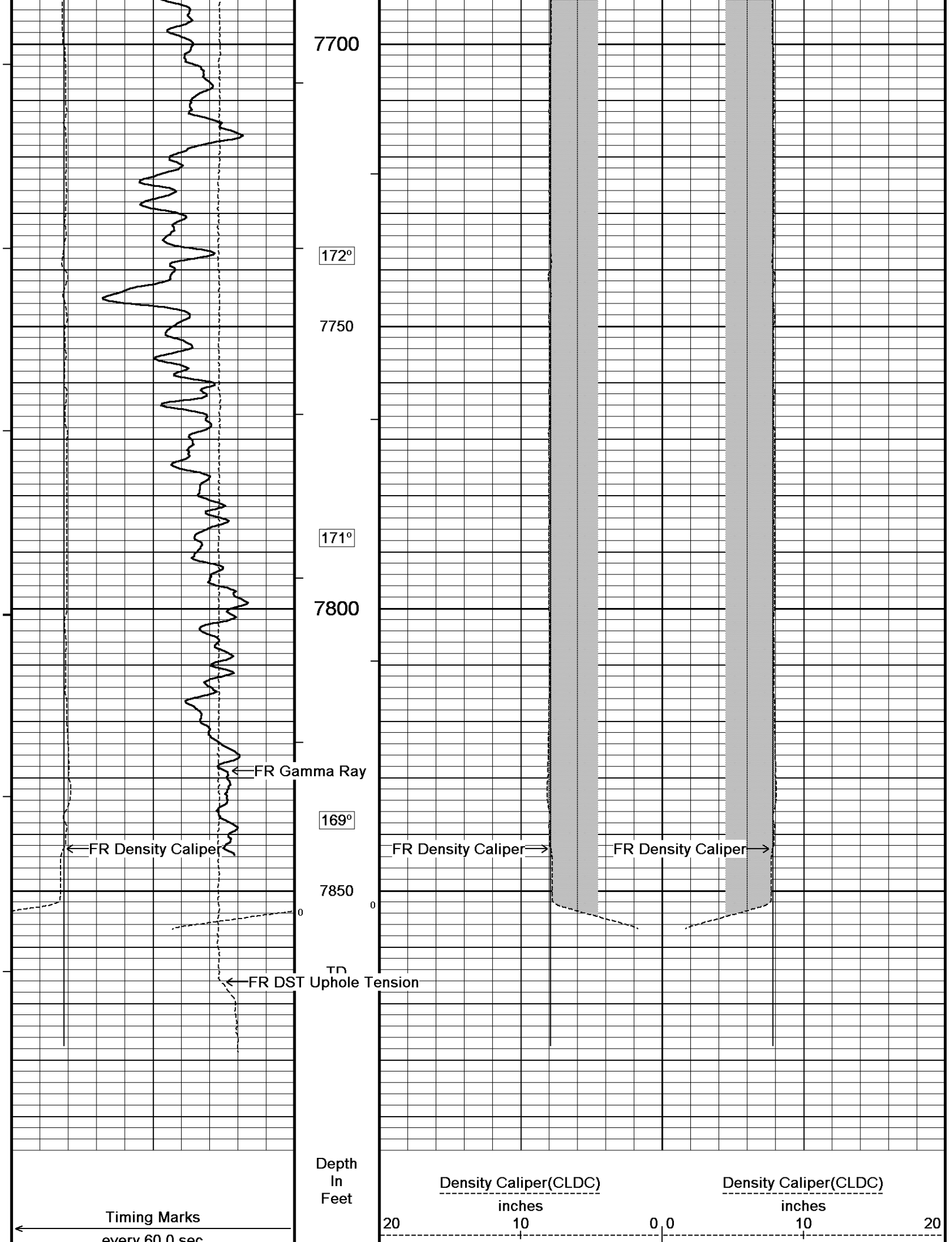




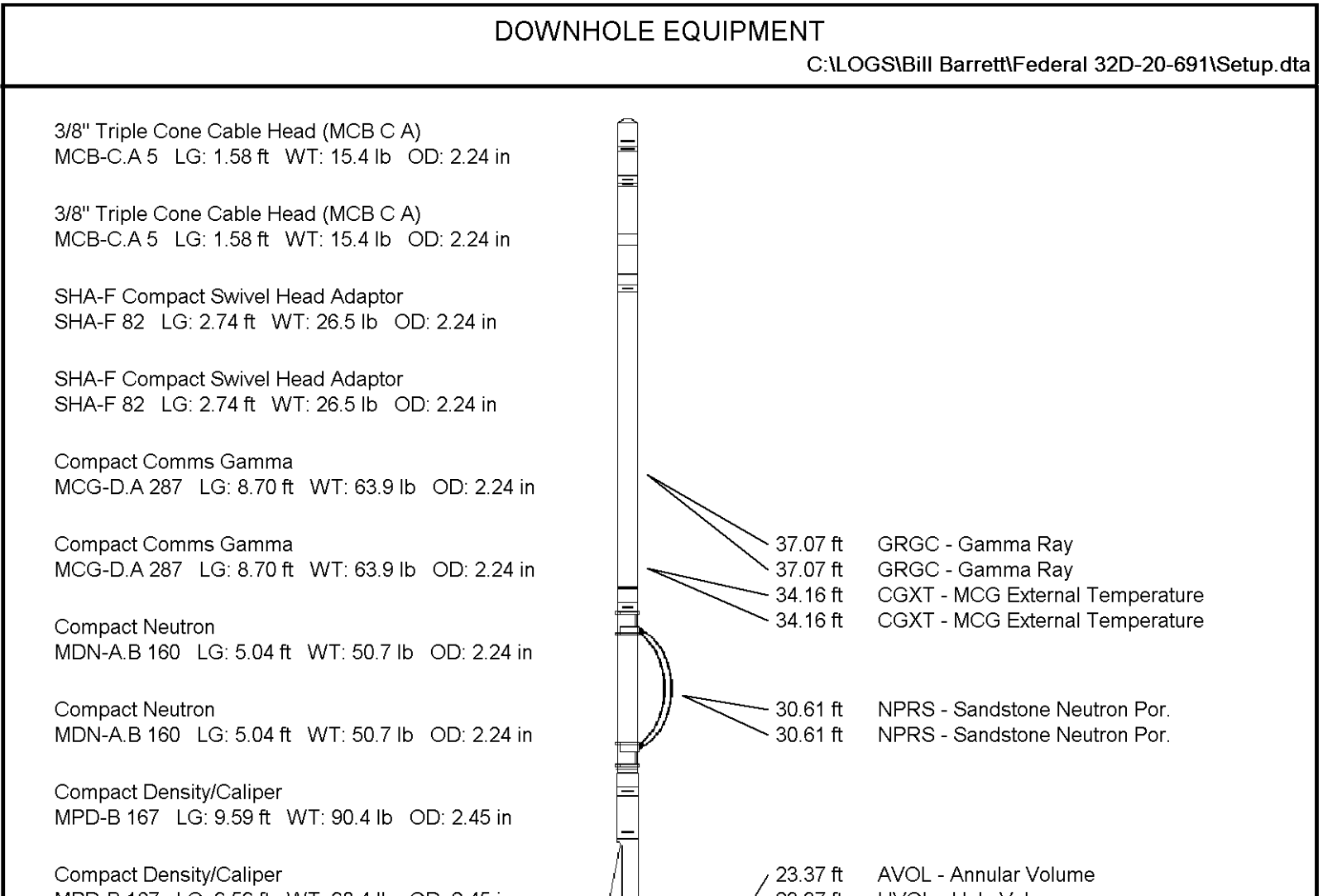
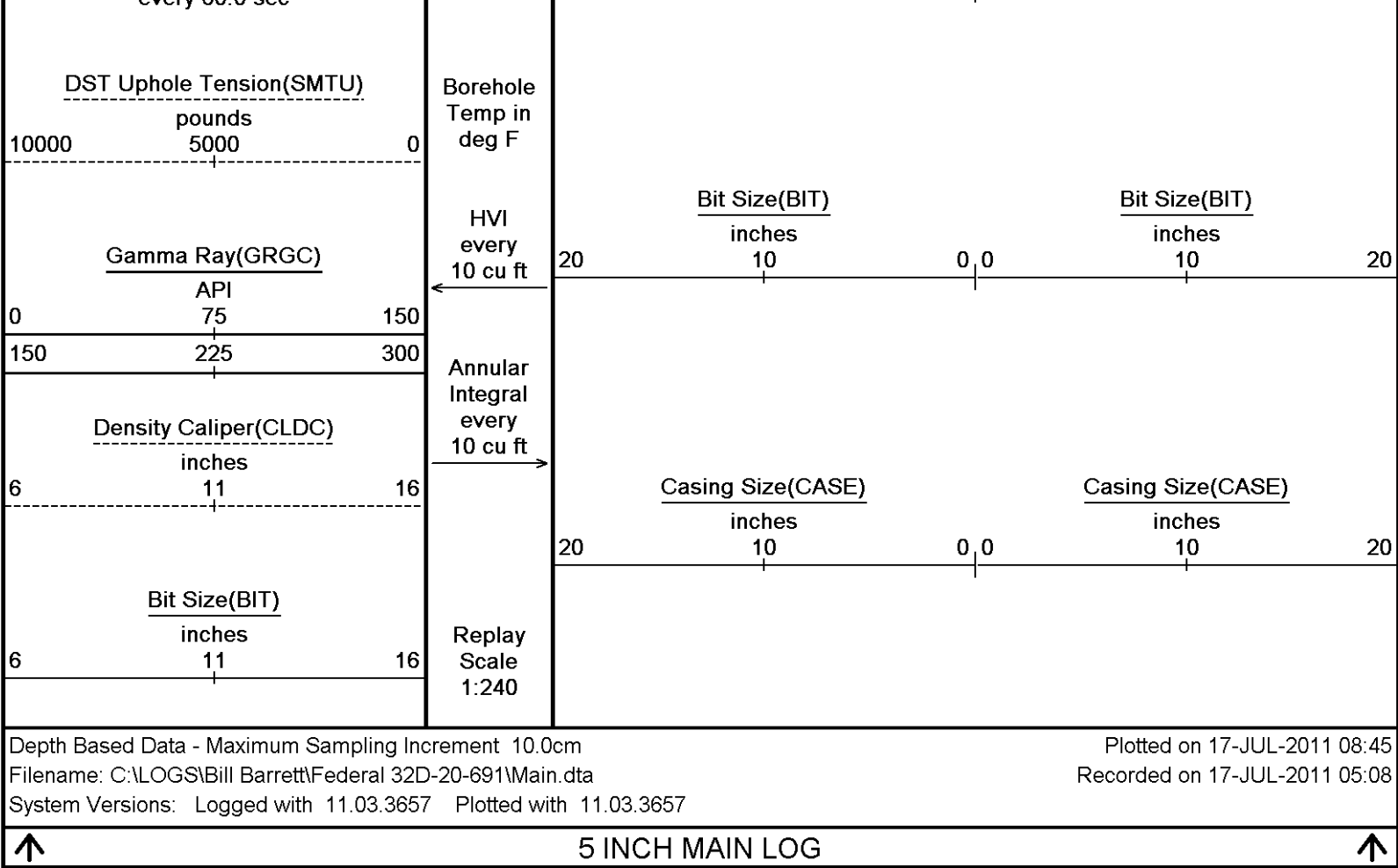








every 50.0 sec



SKJ-D.A Compact Knuckle Joint
MPD-B.167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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

Compact Focussed Electric
MFE-A.A 85 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

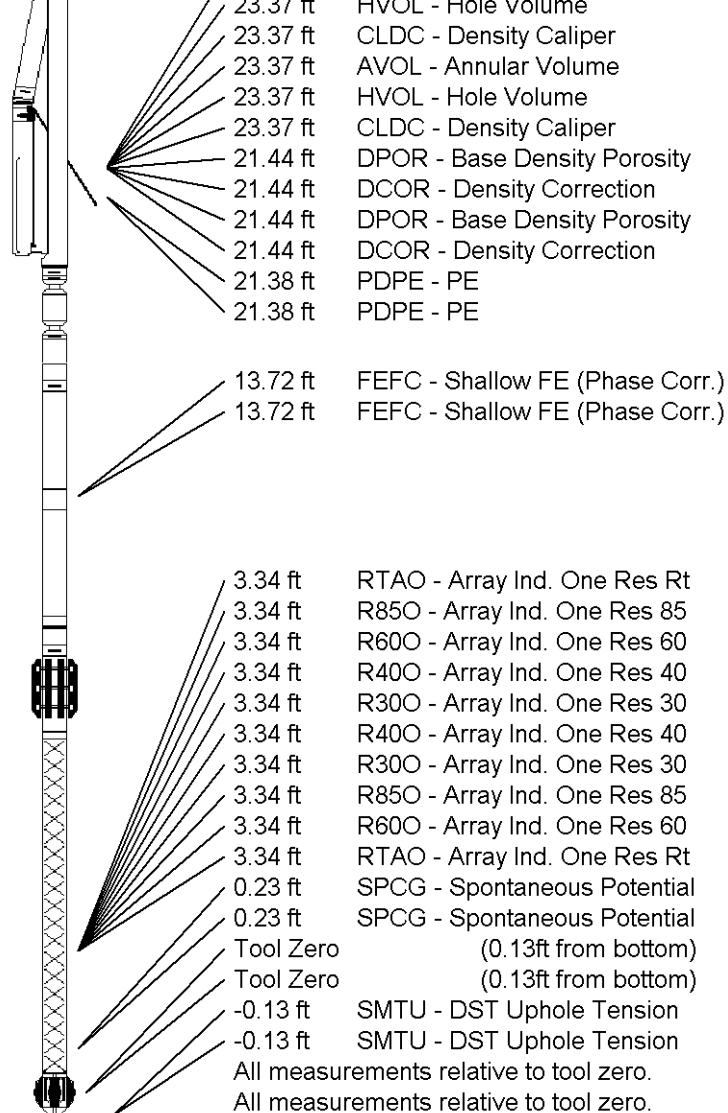
Compact Focussed Electric
MFE-A.A 85 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.A 213 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.A 213 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 46.67 ft Weight: 368.2 lb

Total Length: 46.67 ft Weight: 368.2 lb



COMPANY	BILL BARRETT CORPORATION
WELL	FEDERAL 32D-20-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	5553.00	feet	First Reading	7843.00
Elevation Drill Floor	5553.00	feet	Depth Driller	7875.00 feet
Elevation Ground Level	5530.00	feet	Depth Logger	7866.00 feet



Weatherford®

HOLE VOLUME
CALIPER LOG

