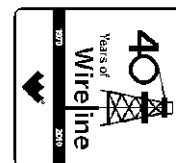




Weatherford

**HOLE VOLUME
CALIPER LOG**



COMPANY

WELL

FIELD

PROVINCE/COUNTY

COUNTRY/STATE

LOCATION

BILL BARRETT CORPORATION

GGU DALEY 31A-30-691

GIBSON GULCH

GARFIELD

U.S.A. / COLORADO

SHL: 236' FSL & 2019' FWL

SEC	TWP	RGE	Other Services
19	6S	91W	MPD/MDN
API Number	05-045-19579	MAI/MFE	
Permit Number			

Permanent Datum G.L., Elevation 5824 feet		Elevations:
Log Measured From K.B. @ 23 FEET above Permanent Datum		KB
Drilling Measured From K.B.		DF
		GL

feet	5847.00
	5847.00
	5824.00

Date	14-APR-2011	
Run Number	ONE	
Depth Driller	7775.00	feet
Depth Logger	7777.00	feet
First Reading	7755.00	
Last Reading	847.00	
Casing Driller	847.00	feet
Casing Logger	847.00	feet
Bit Size	7.880	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.70 lb/USg	52.00 CP
PH / Fluid Loss	8.50	7.20 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	2.60 @ 89.0	ohm-m
Rmf @ Measured Temp	2.06 @ 89.0	ohm-m
Rmc @ Measured Temp	3.12 @ 89.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	1.27 @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	M.RICHINS	
Witnessed By	C.CROW	

BOREHOLE RECORD

Last Edited: 14-APR-2011 13:53

Bit Size inches	Depth From feet	Depth To feet
8.750	847.00	5492.00
7.880	5492.00	7775.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	847.00	36.00

REMARKS

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.
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.

VARIATION IN REPEAT SECTION DUE TO RUGOSE HOLE CONDITIONS. REPEATED 3 TIMES WITH NO CHANGE IN TOOL RESPONSE.

UNDERGAUGE SECTION AT 3150 FEET RESULT OF LOG SPLICE ATTEMPT. TOOLS BRIDGED UPON DESCENT, AND LOGS CONTINUED FROM BRIDGED POINT

CONTINUED FROM DRIBBLEY CONT.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.92" (9 5/8", 36 LB/FT CASING)

8.75 INCH BIT CHANGE AT 5492 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 3080 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2320 CU.FT.

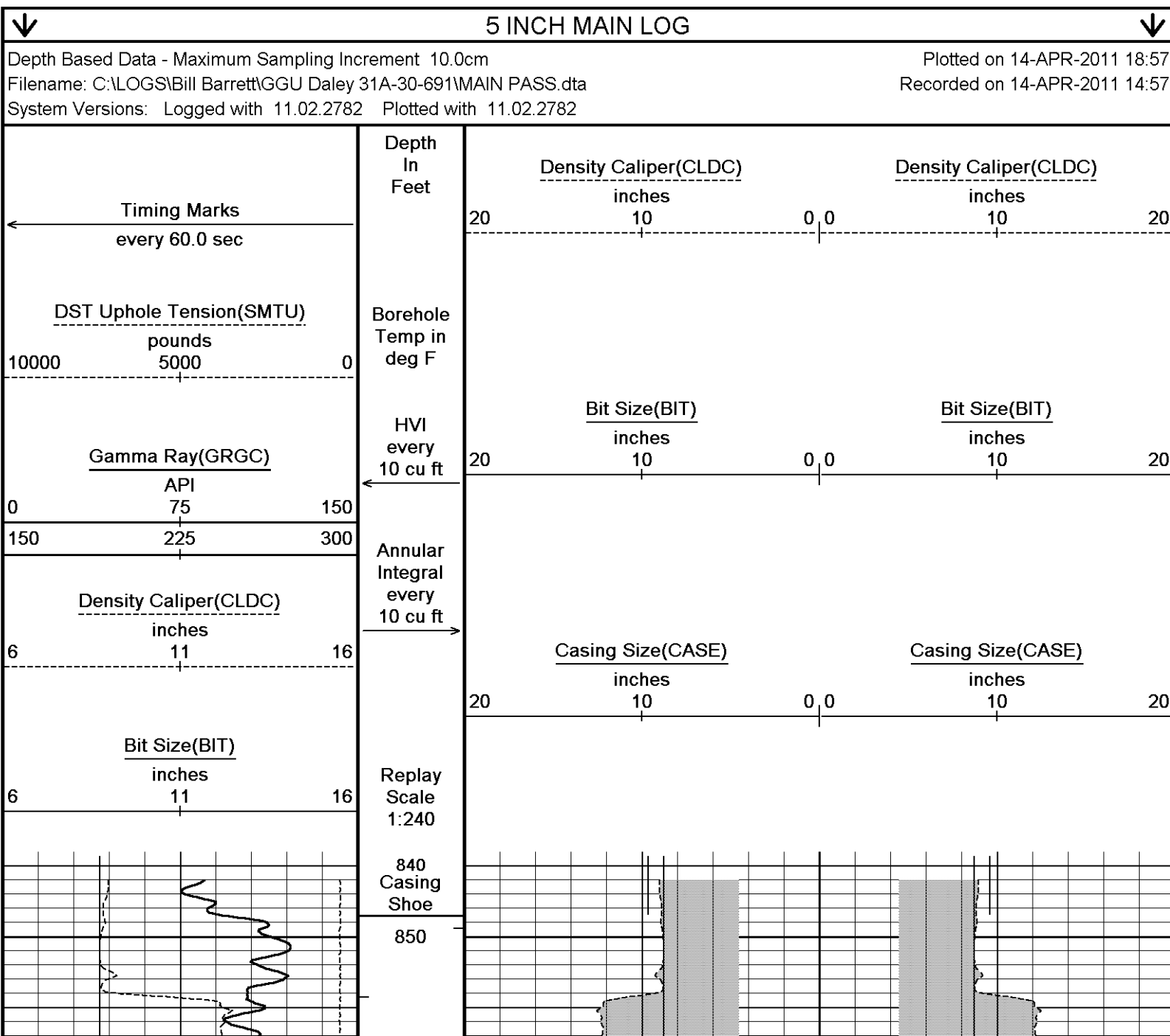
ENGINEER(S): M.RICHINS, O. GOYZUETA(JFE), F. MRABET (JFE)

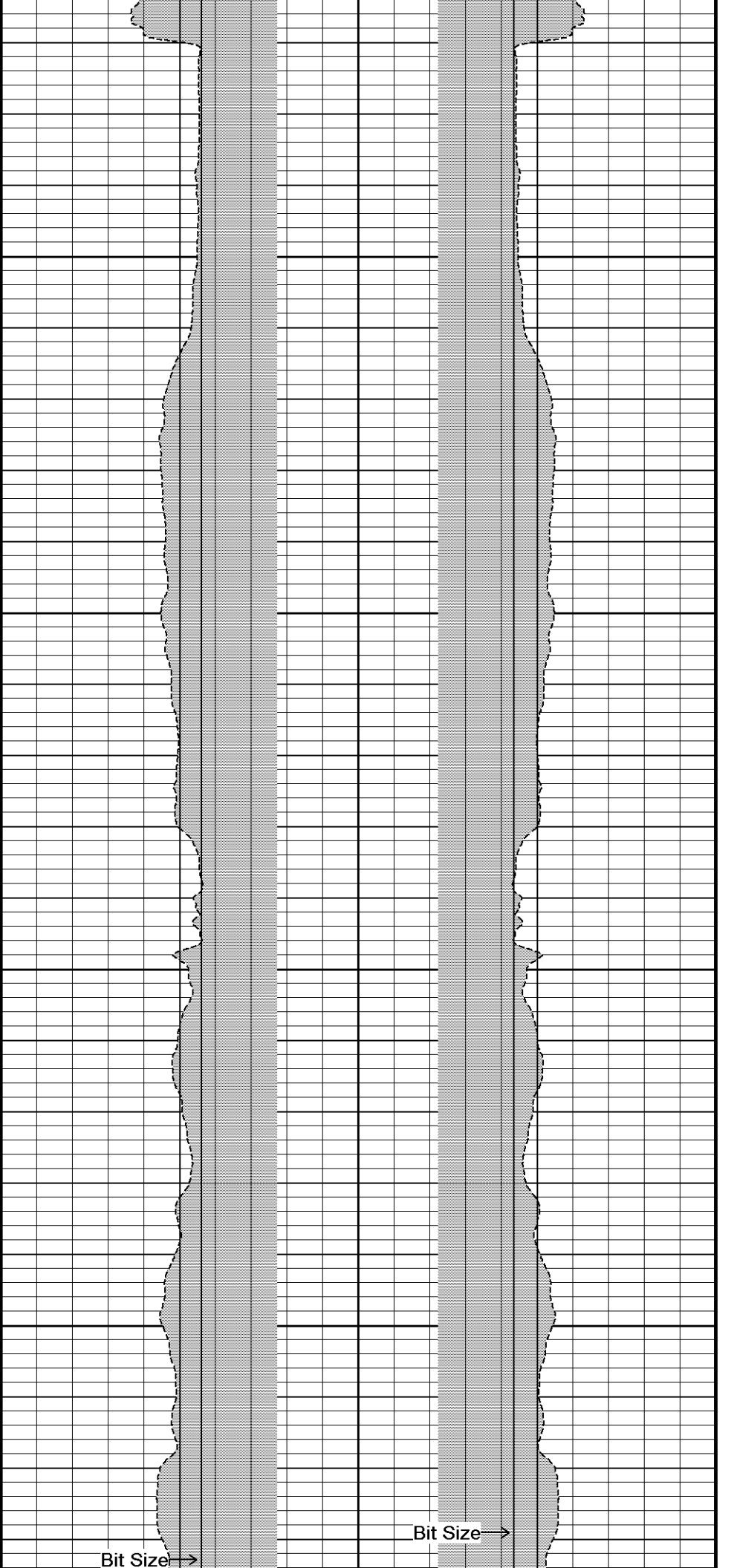
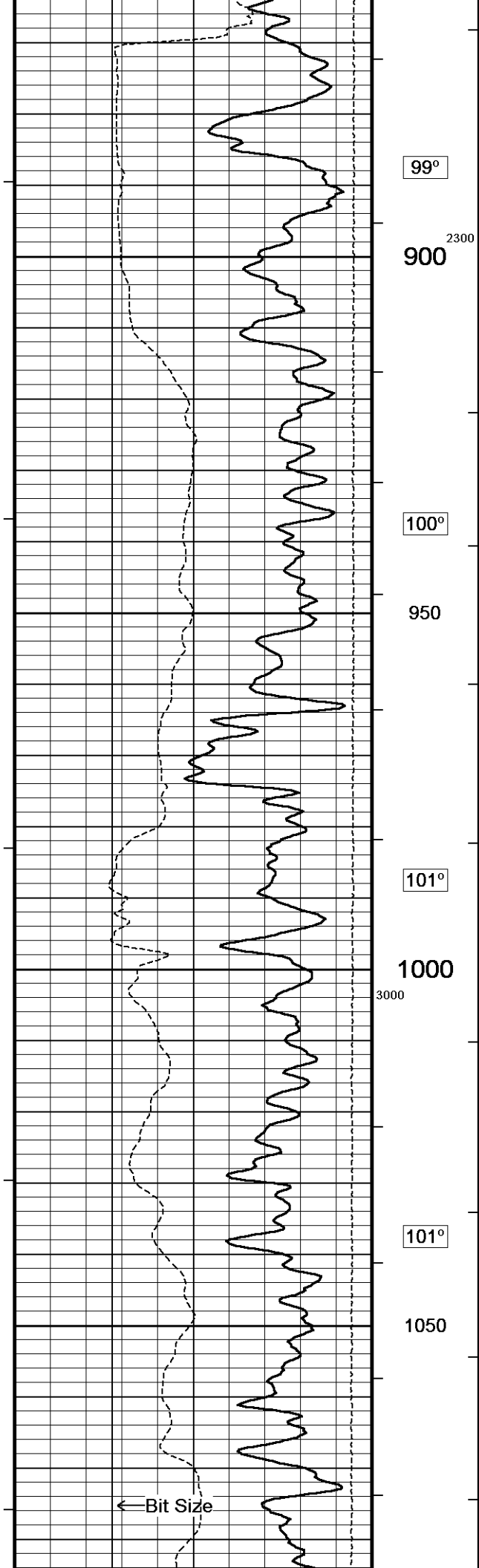
OPERATOR(S): D. DALEY

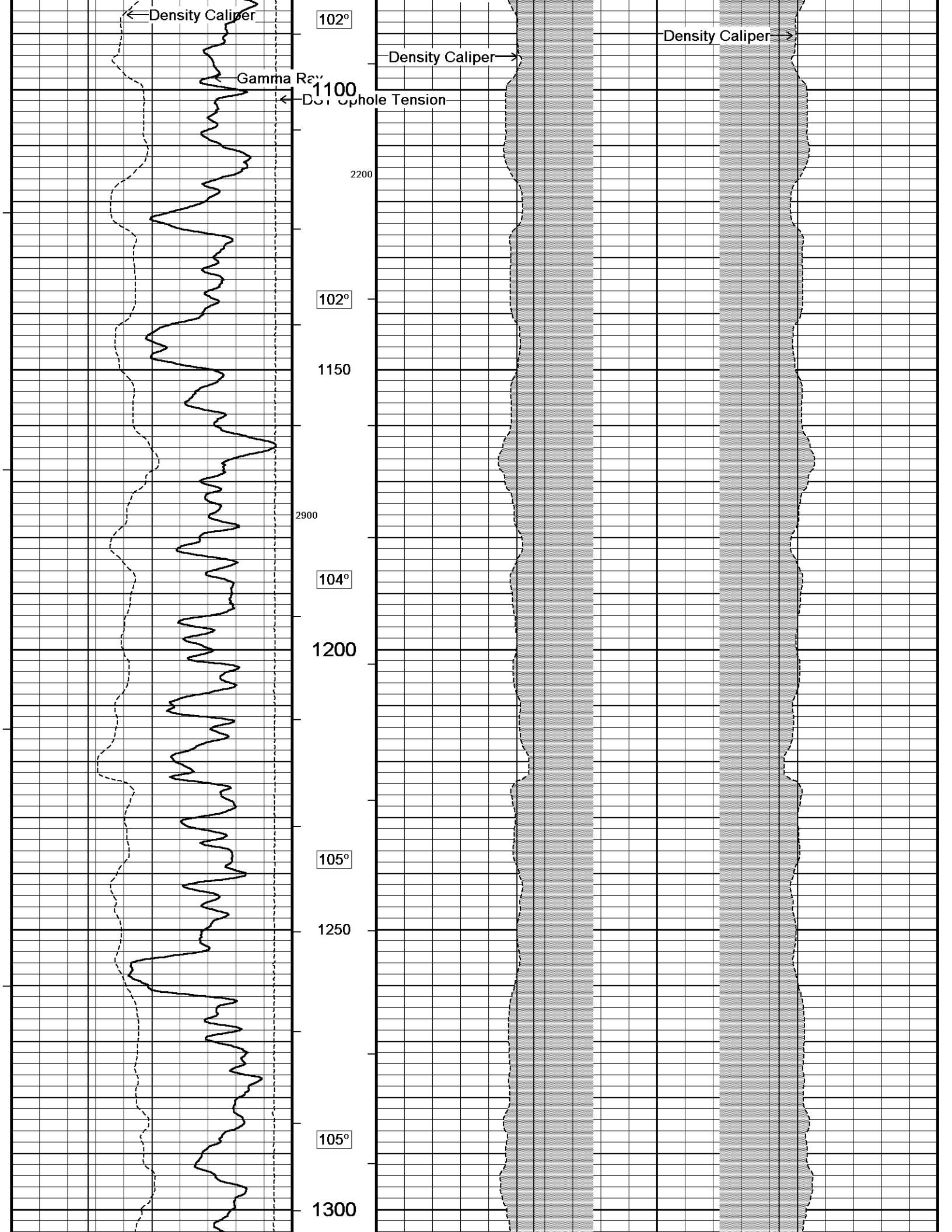
SERVICE ORDER: # 3524863

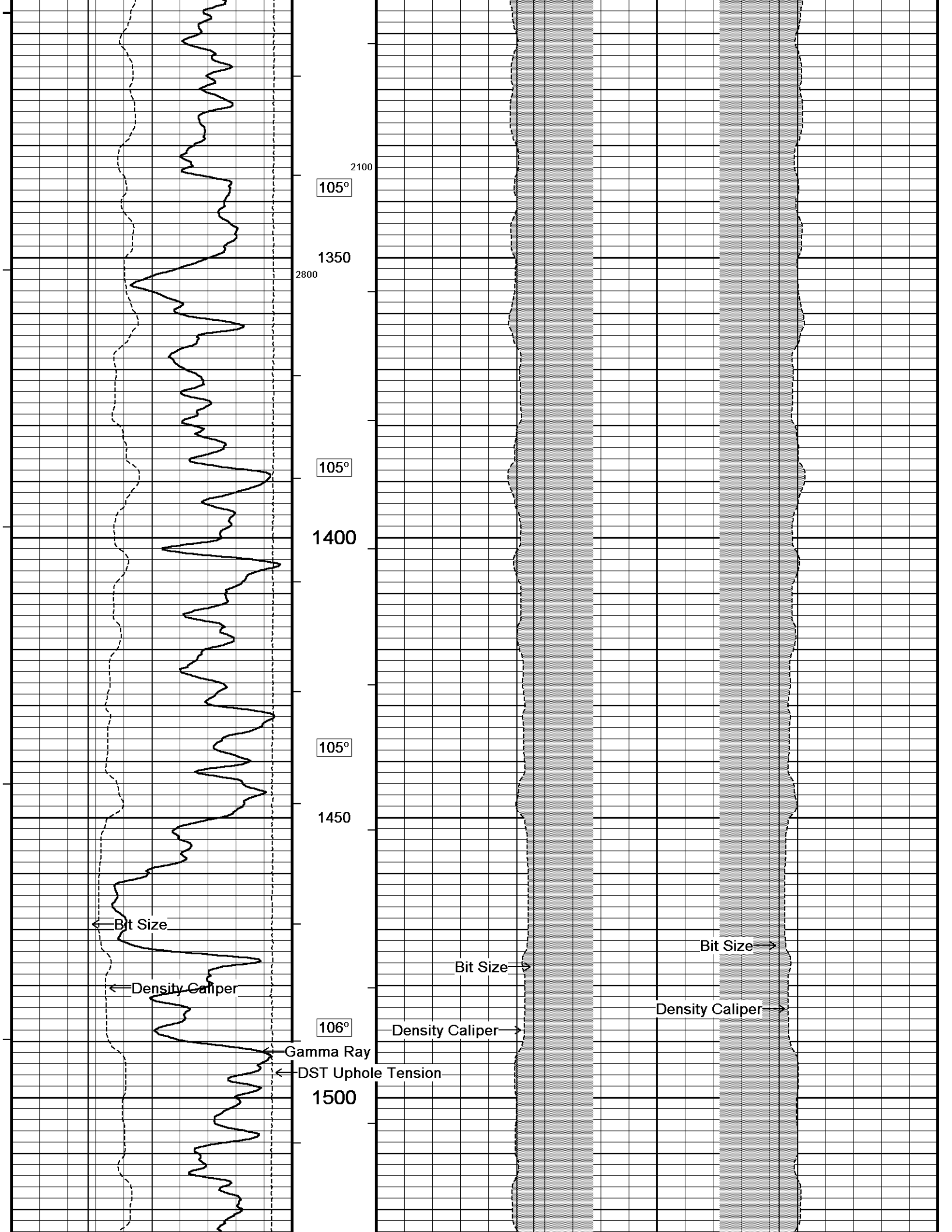
RIG: PATTERSON #307

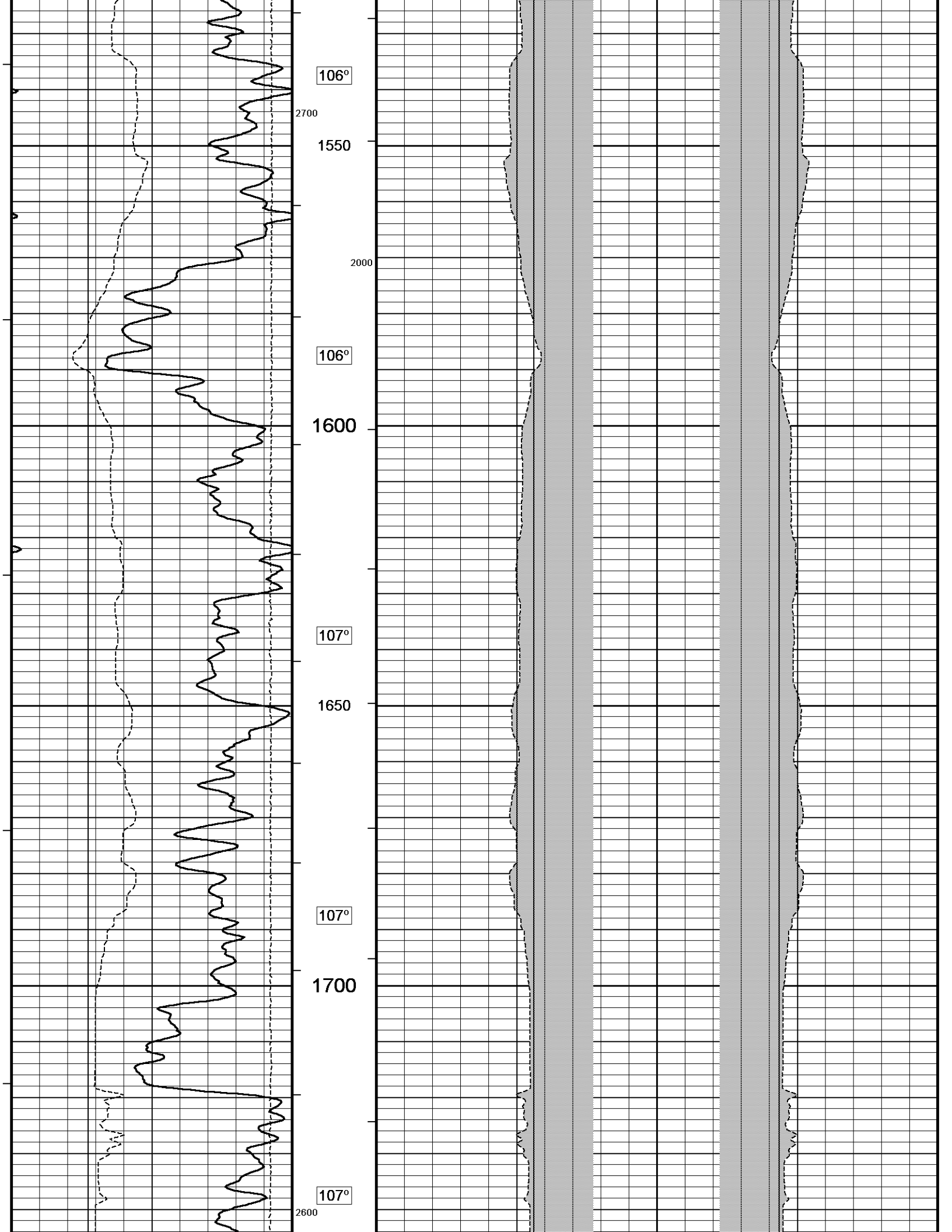
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

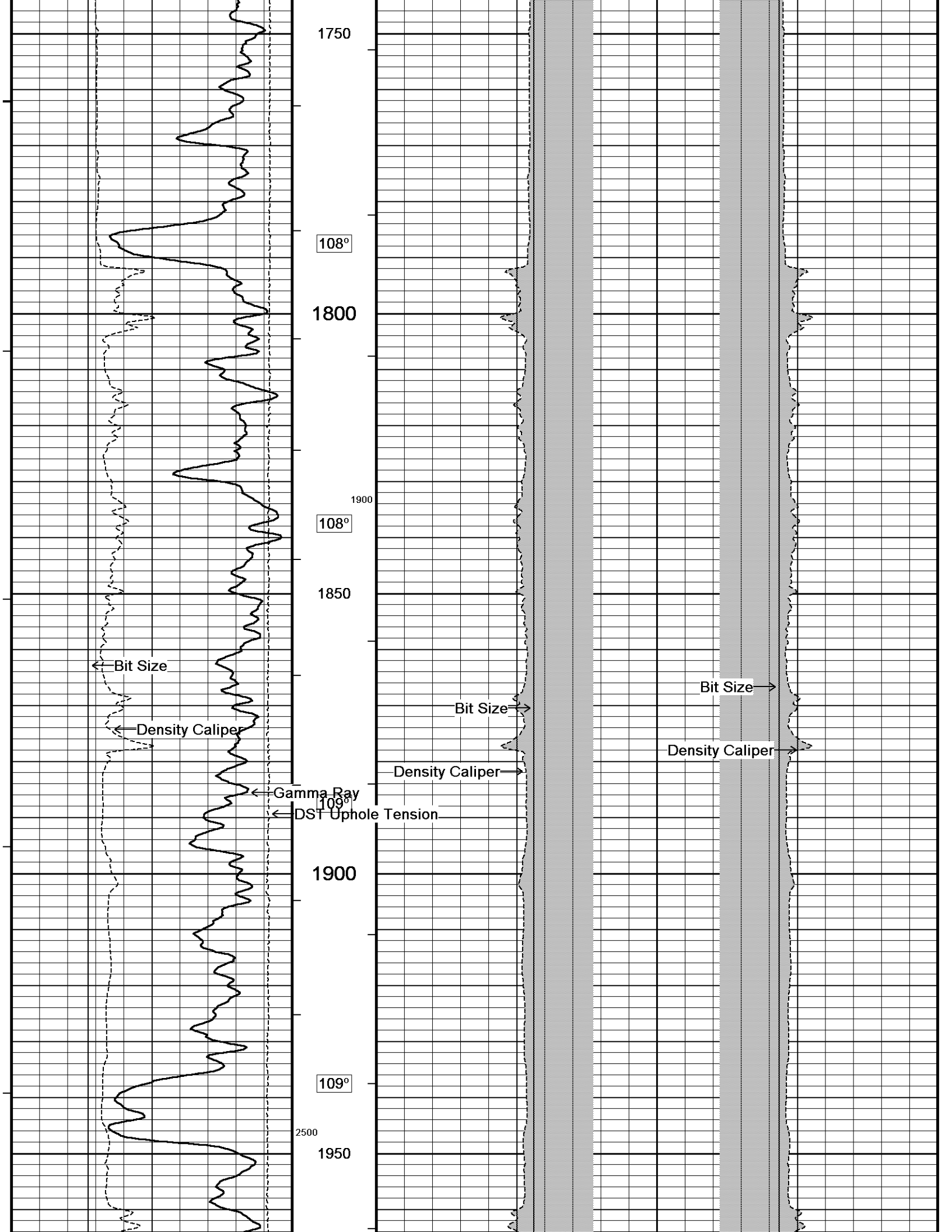


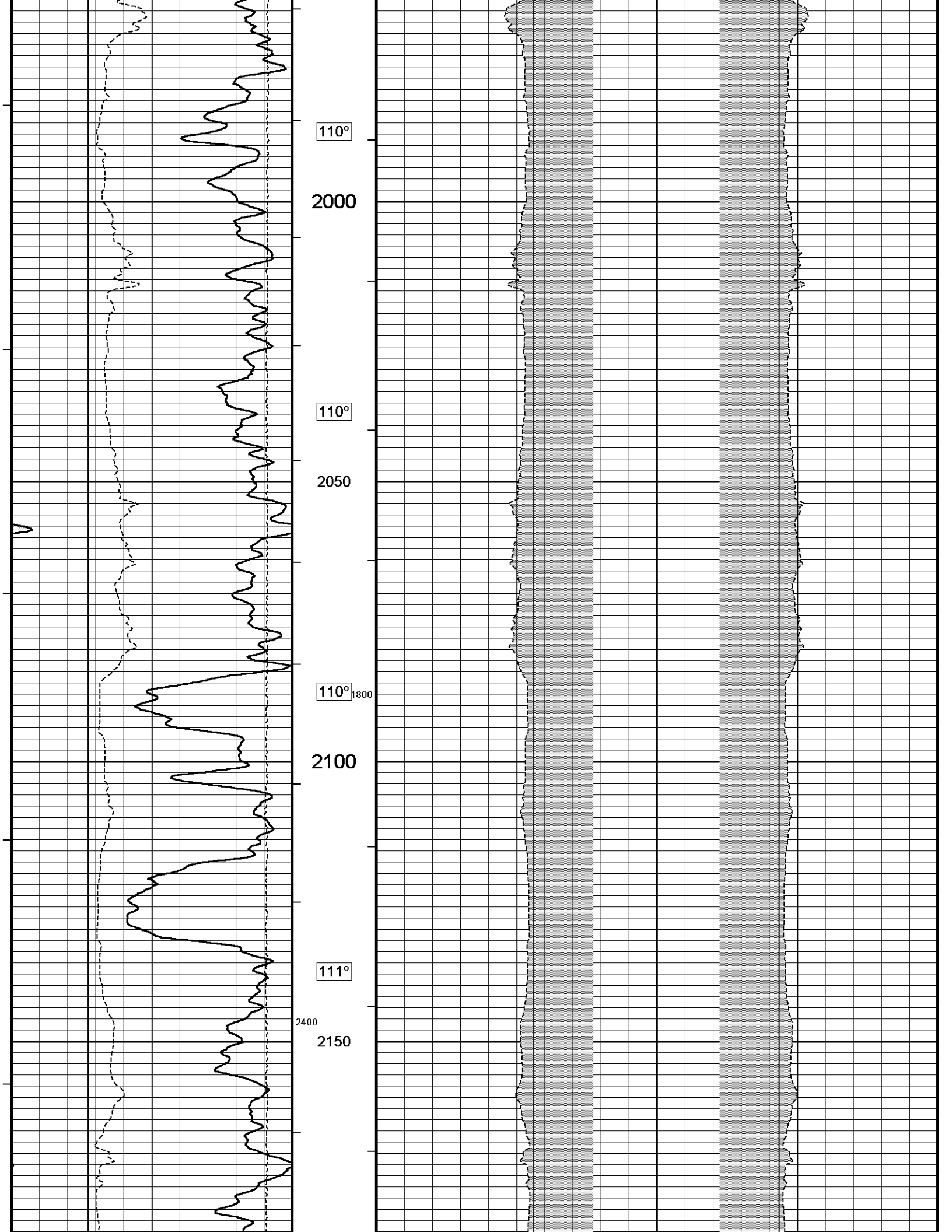


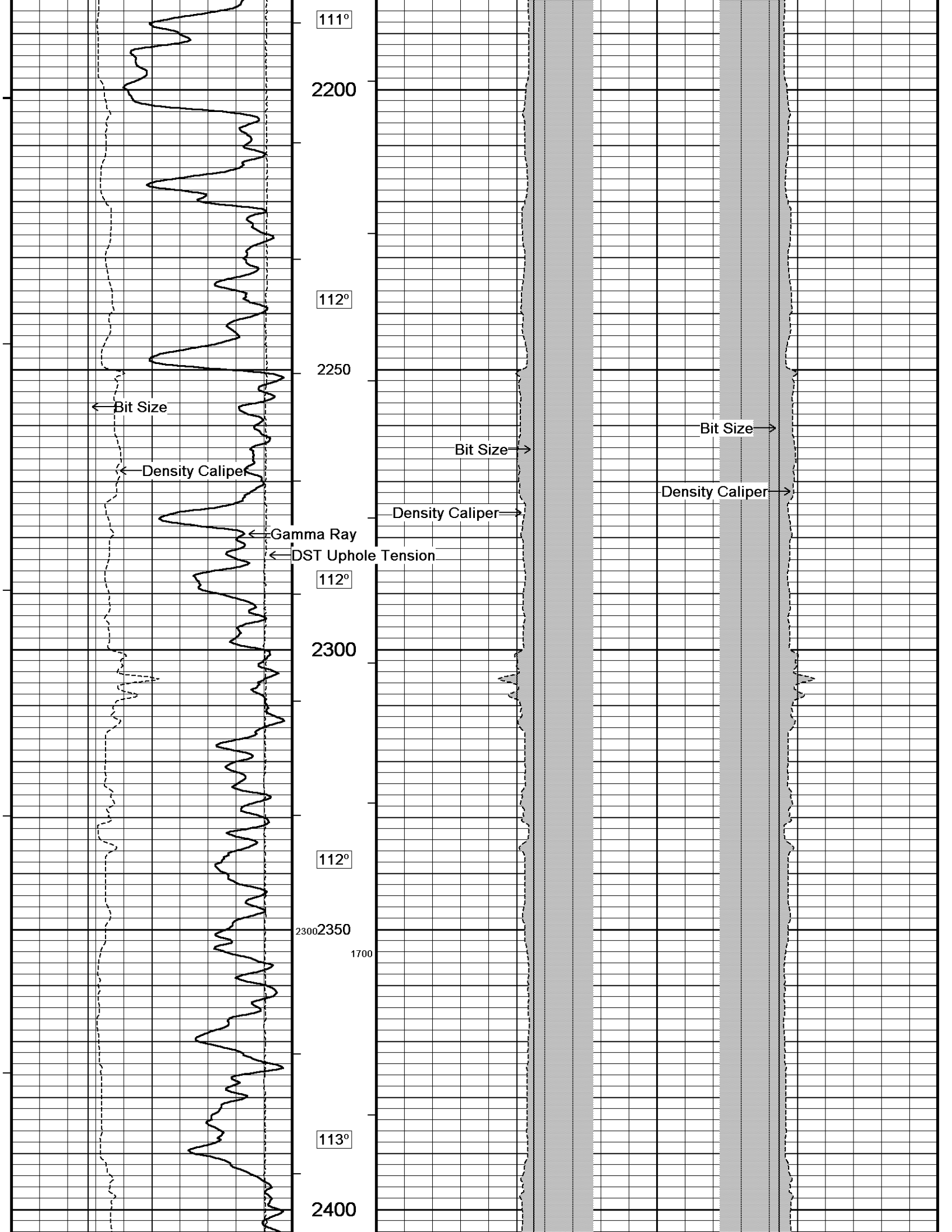


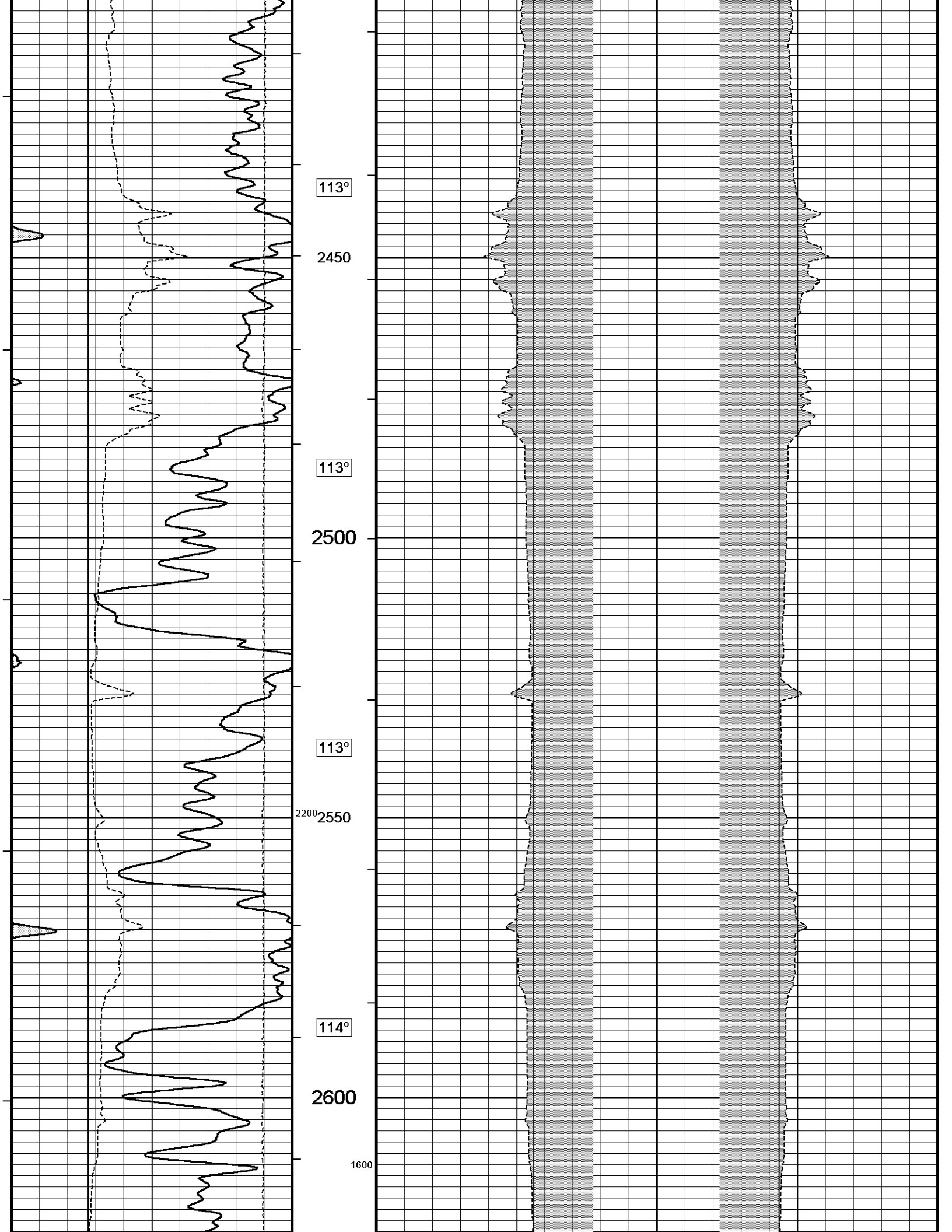


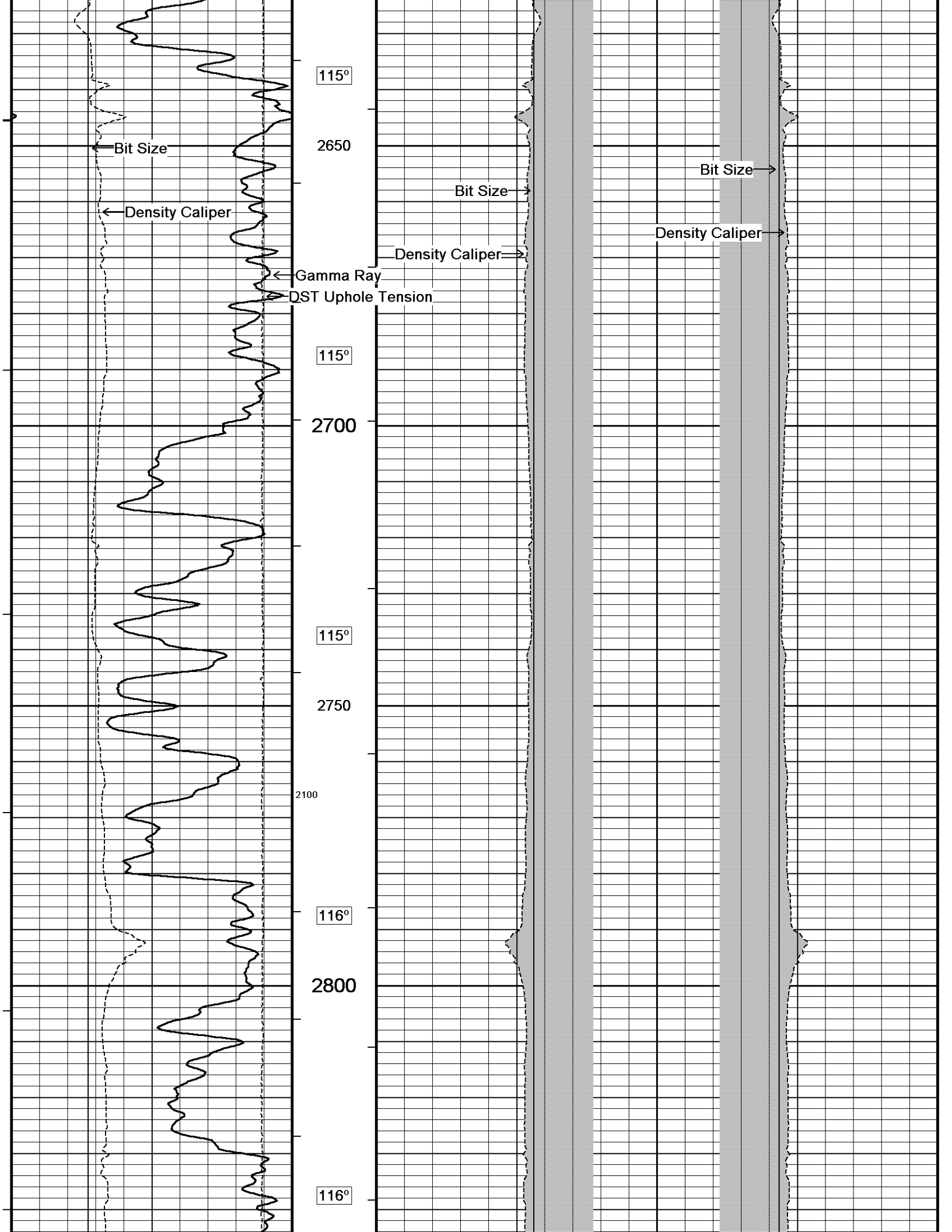


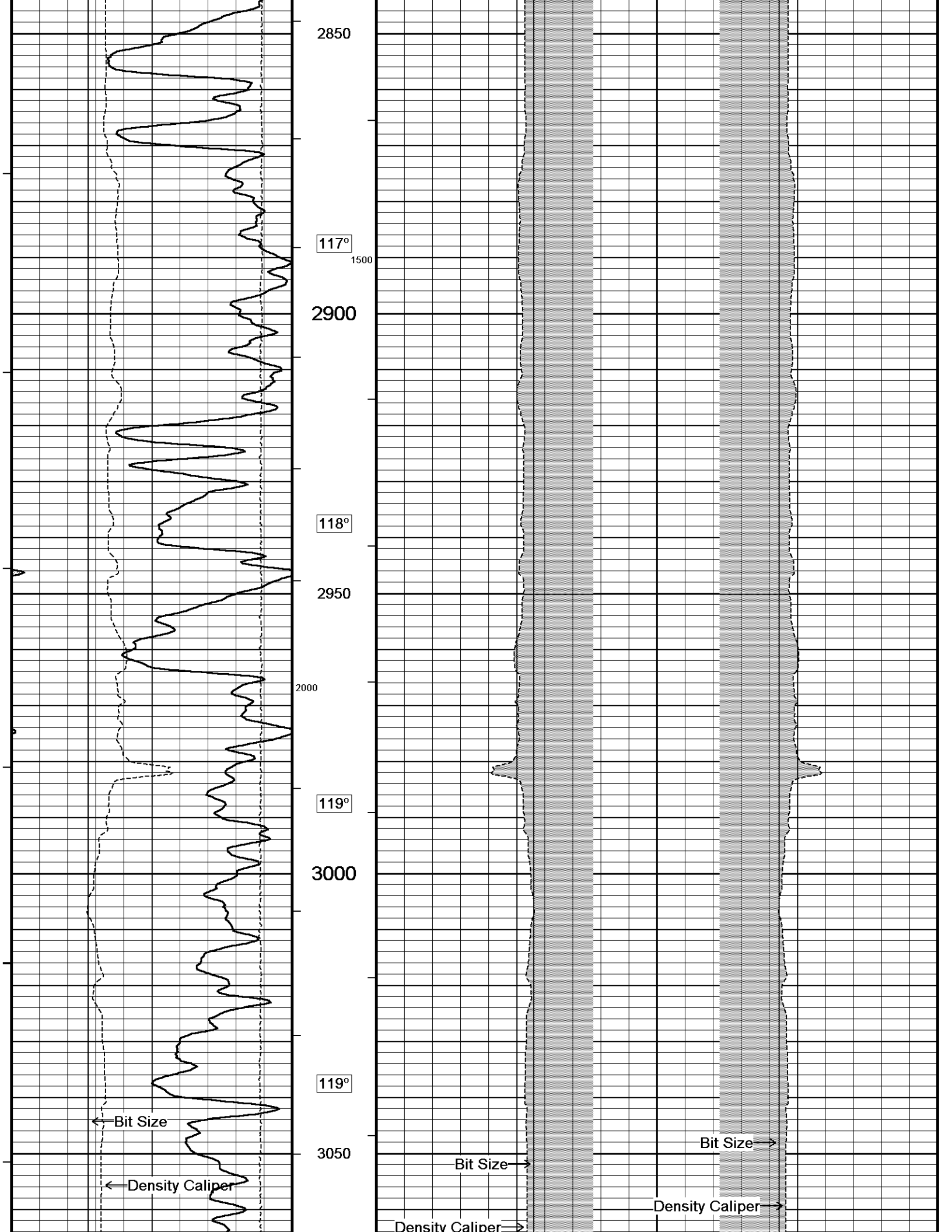


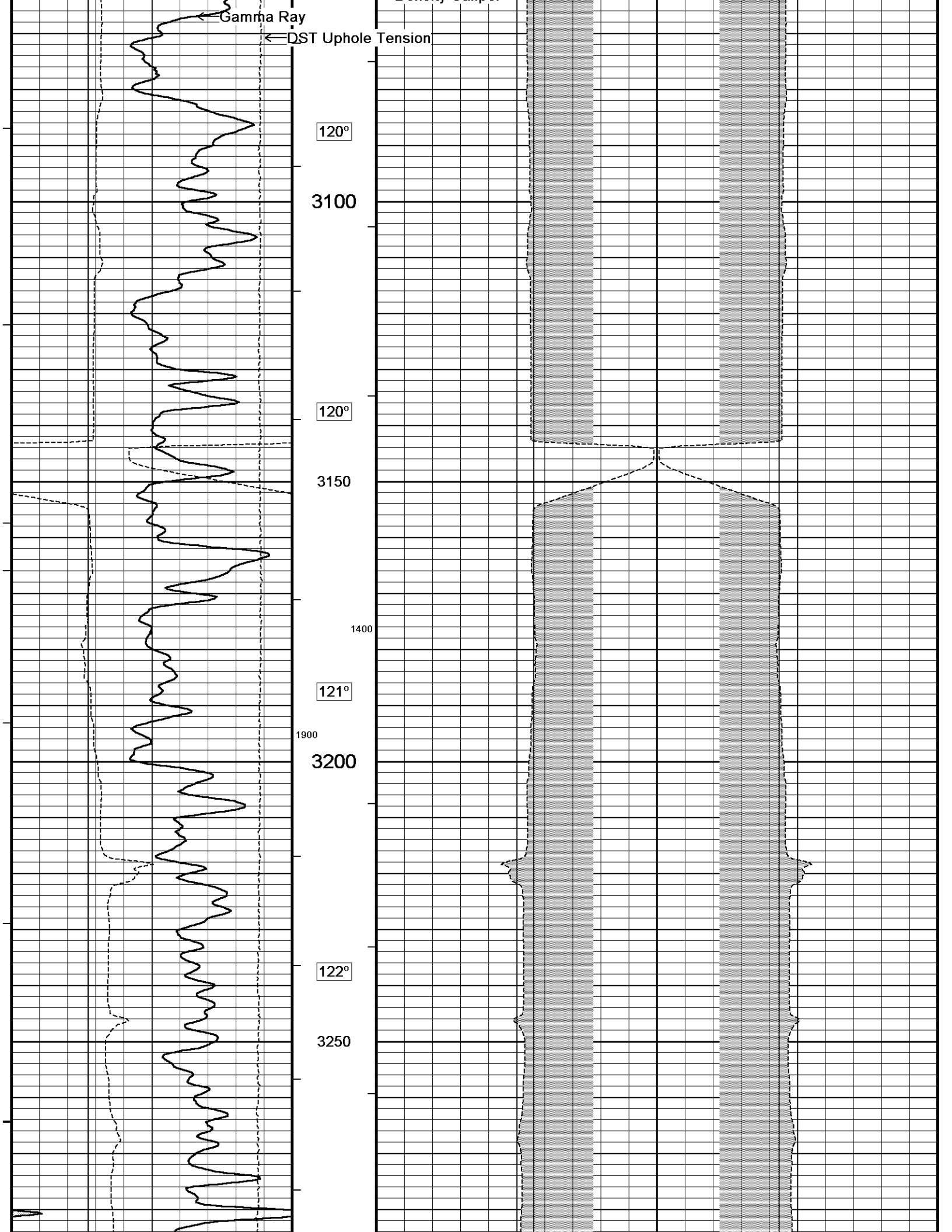


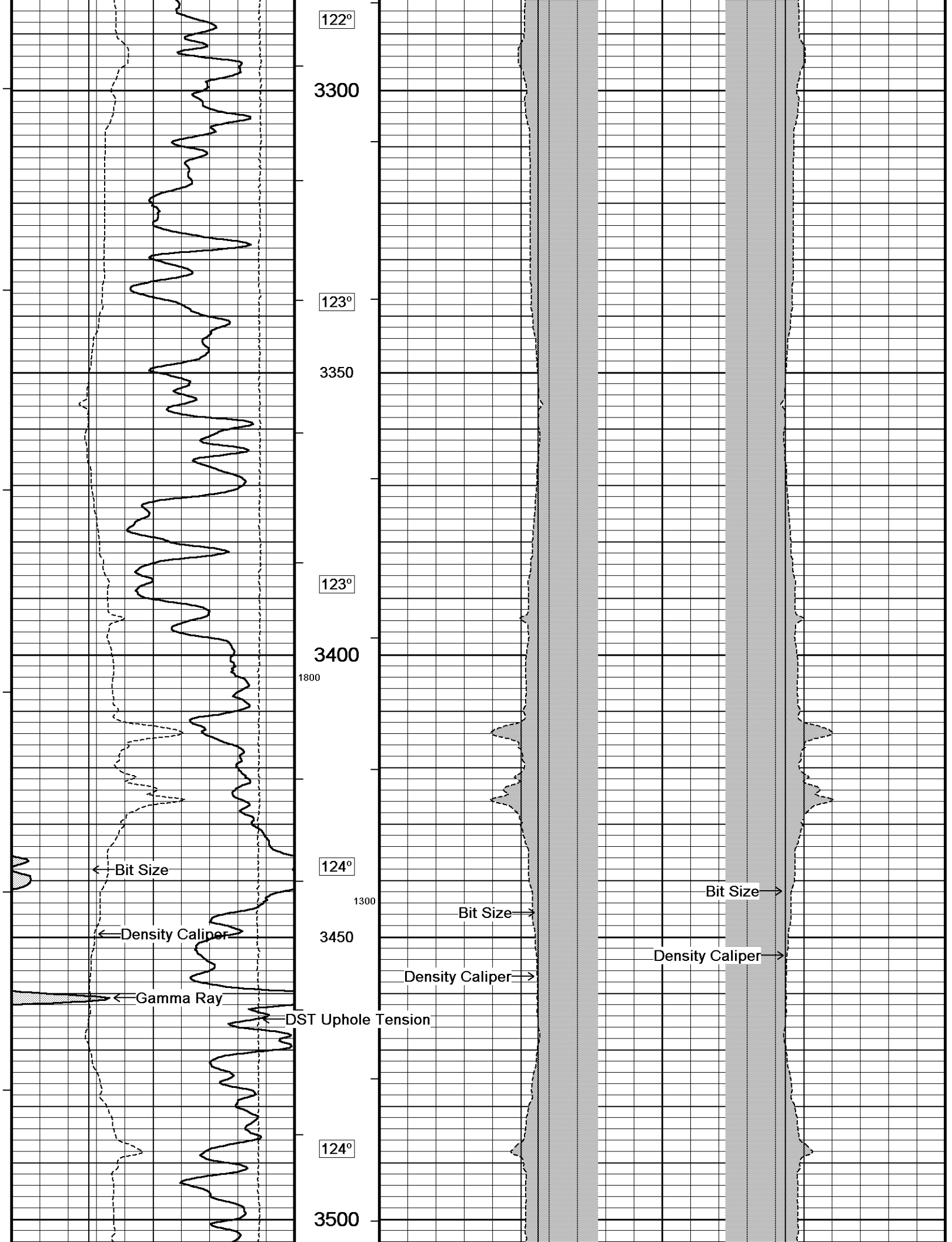


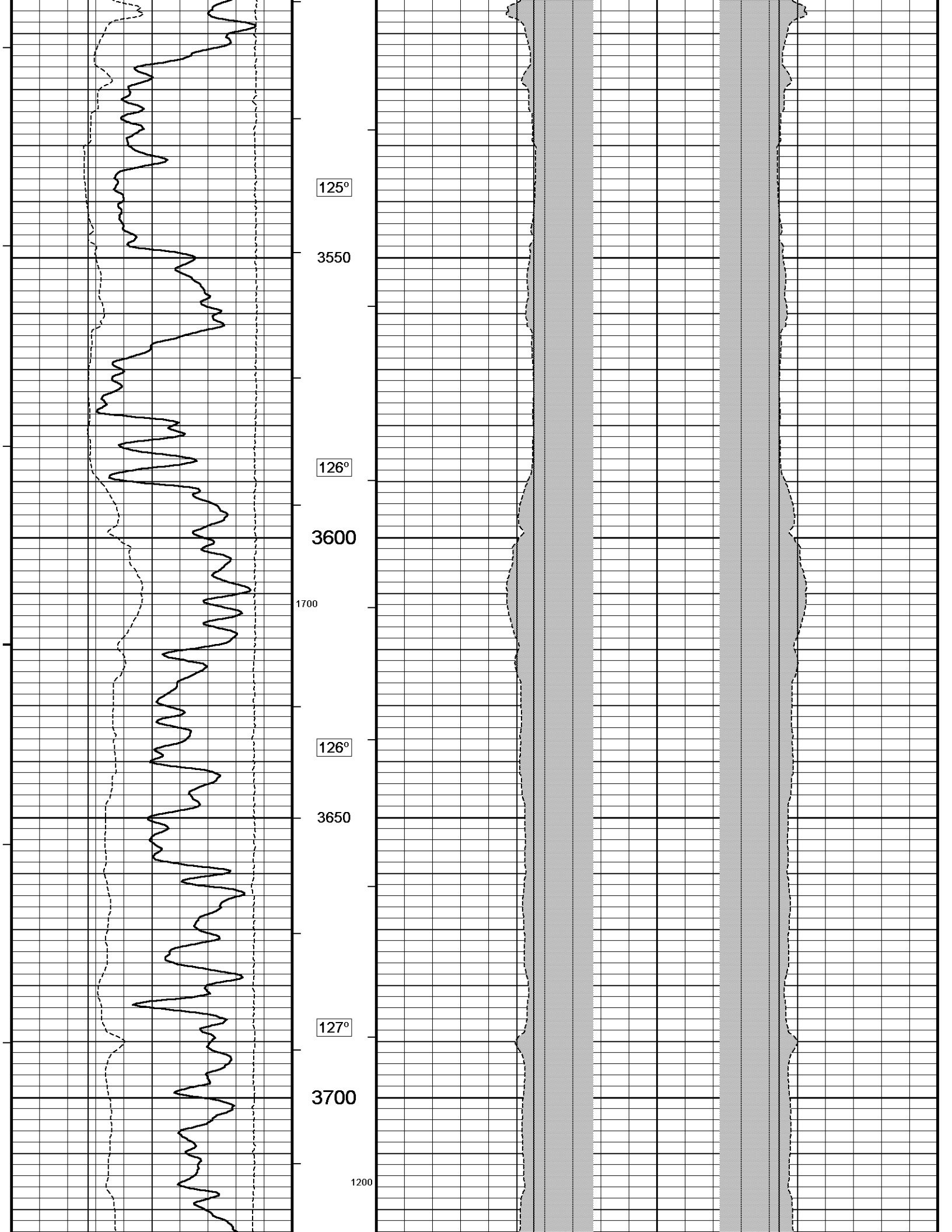


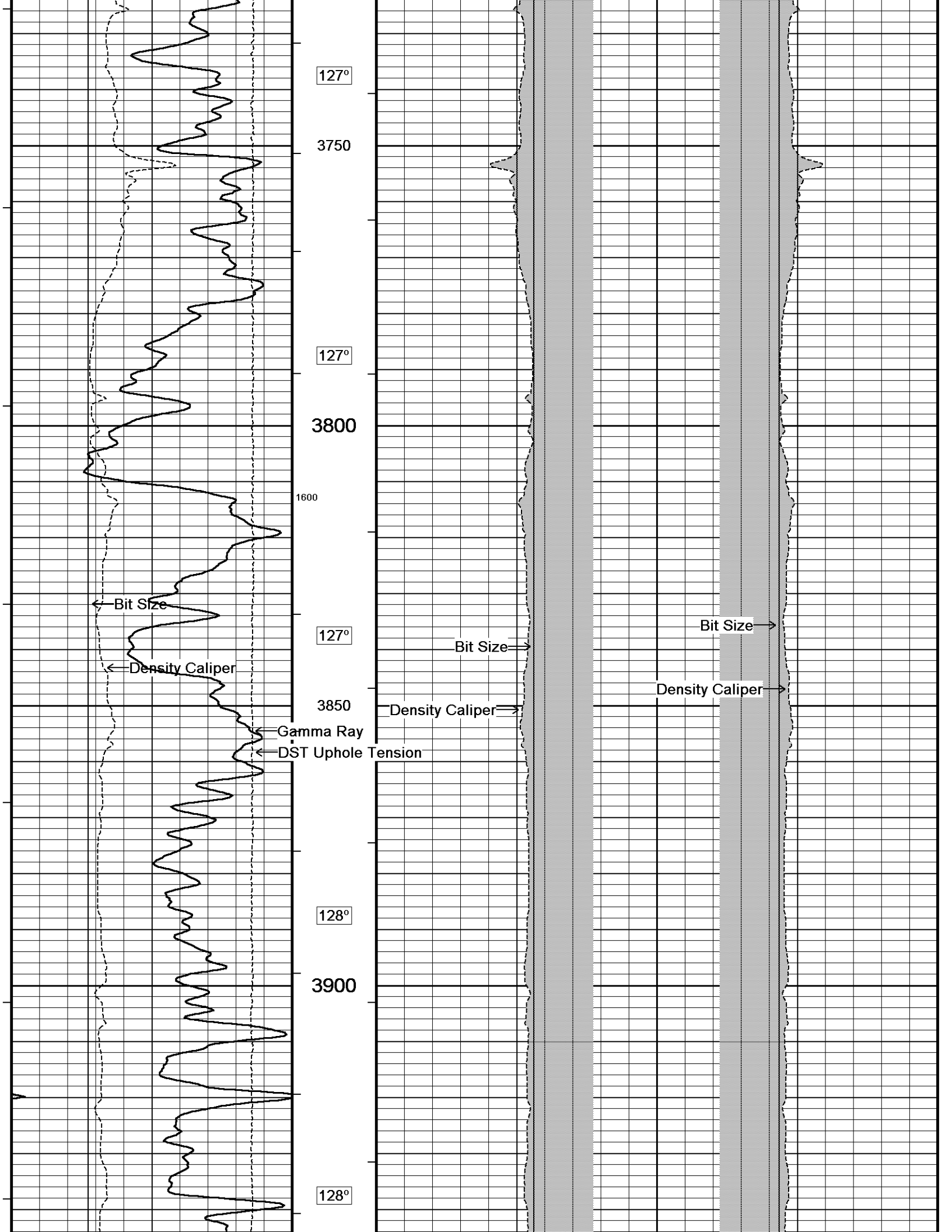


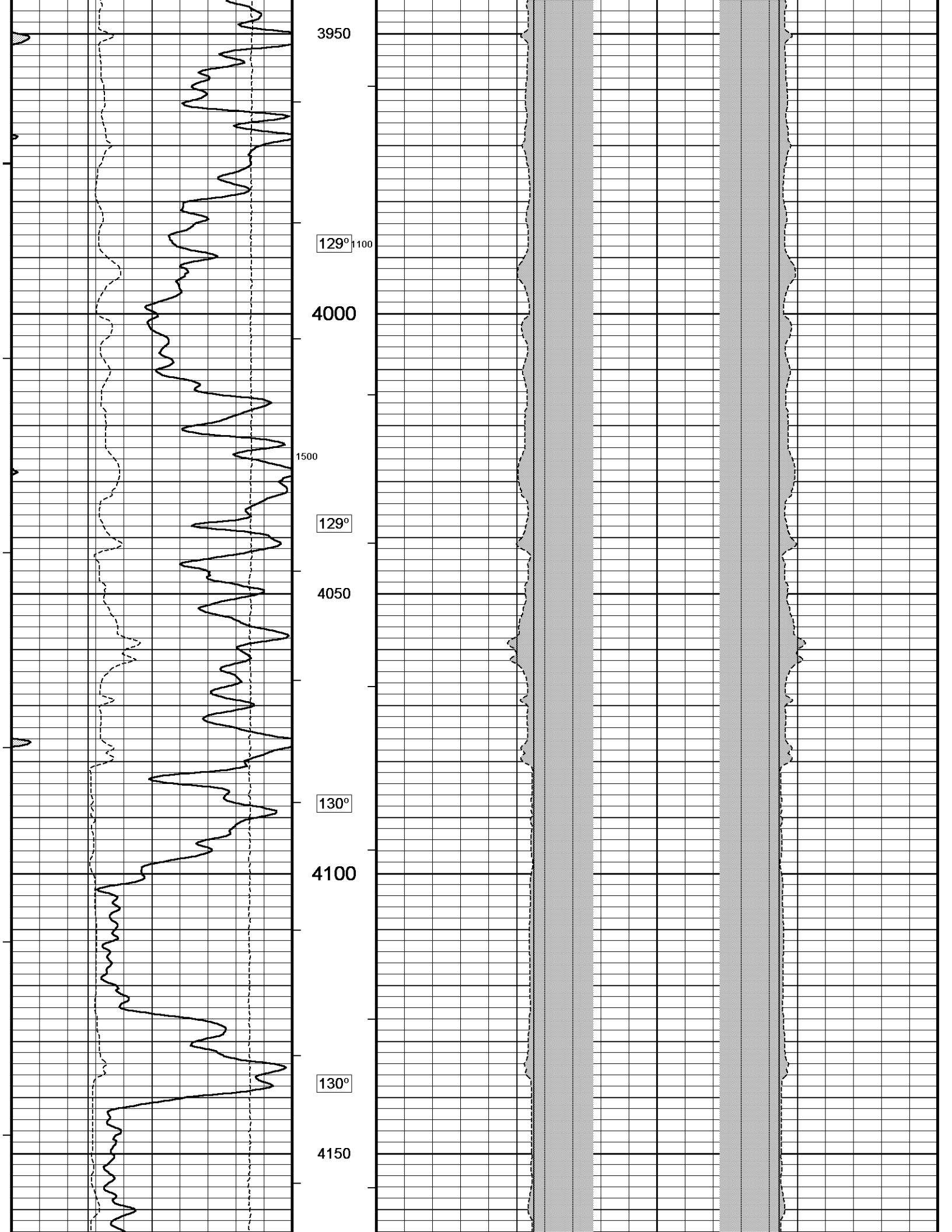


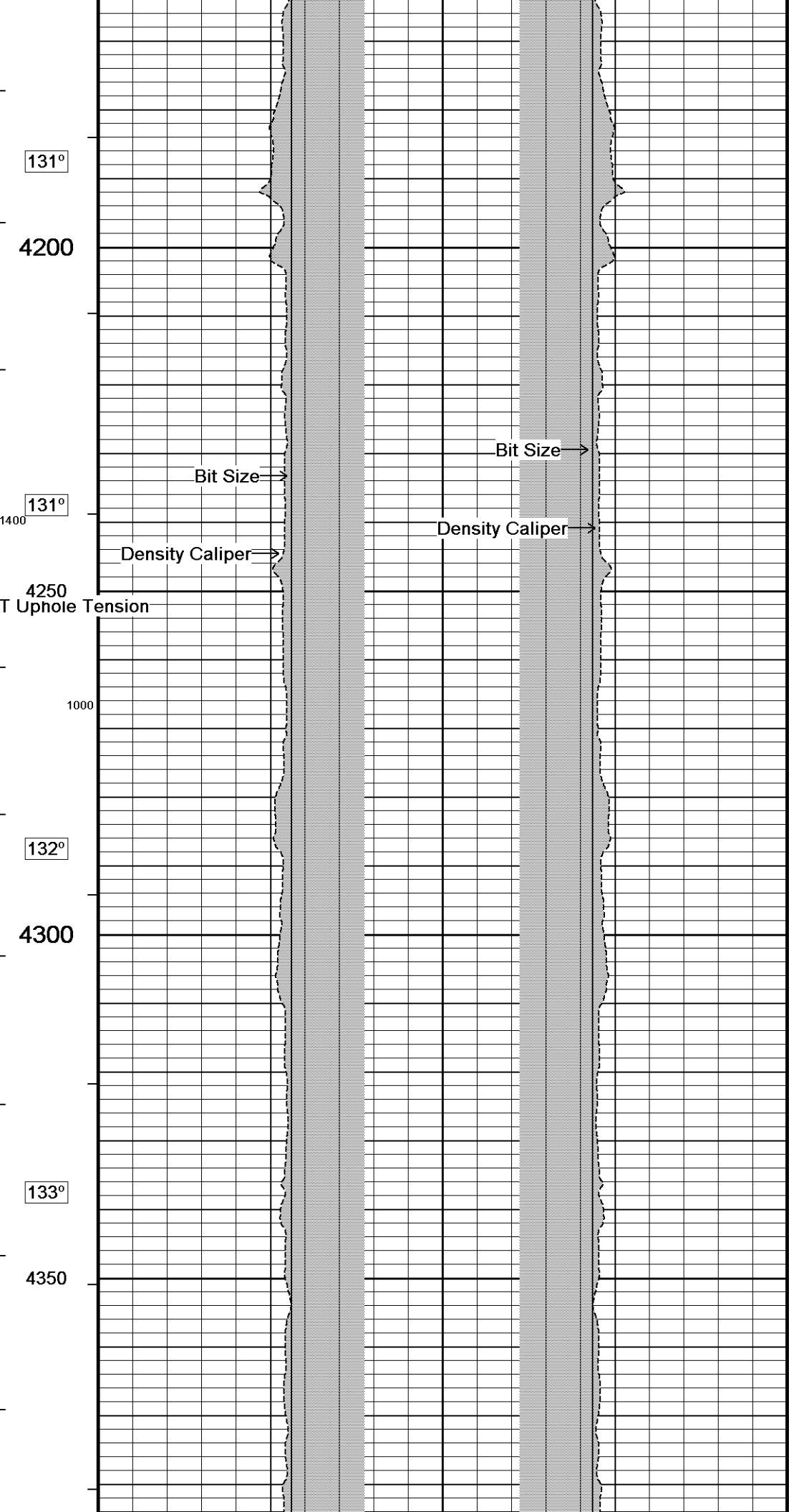
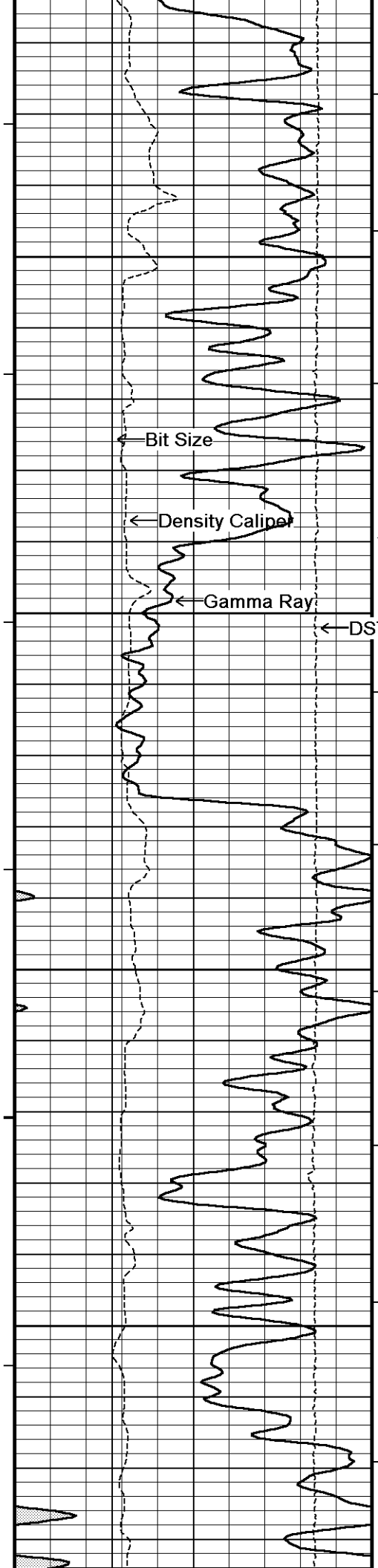


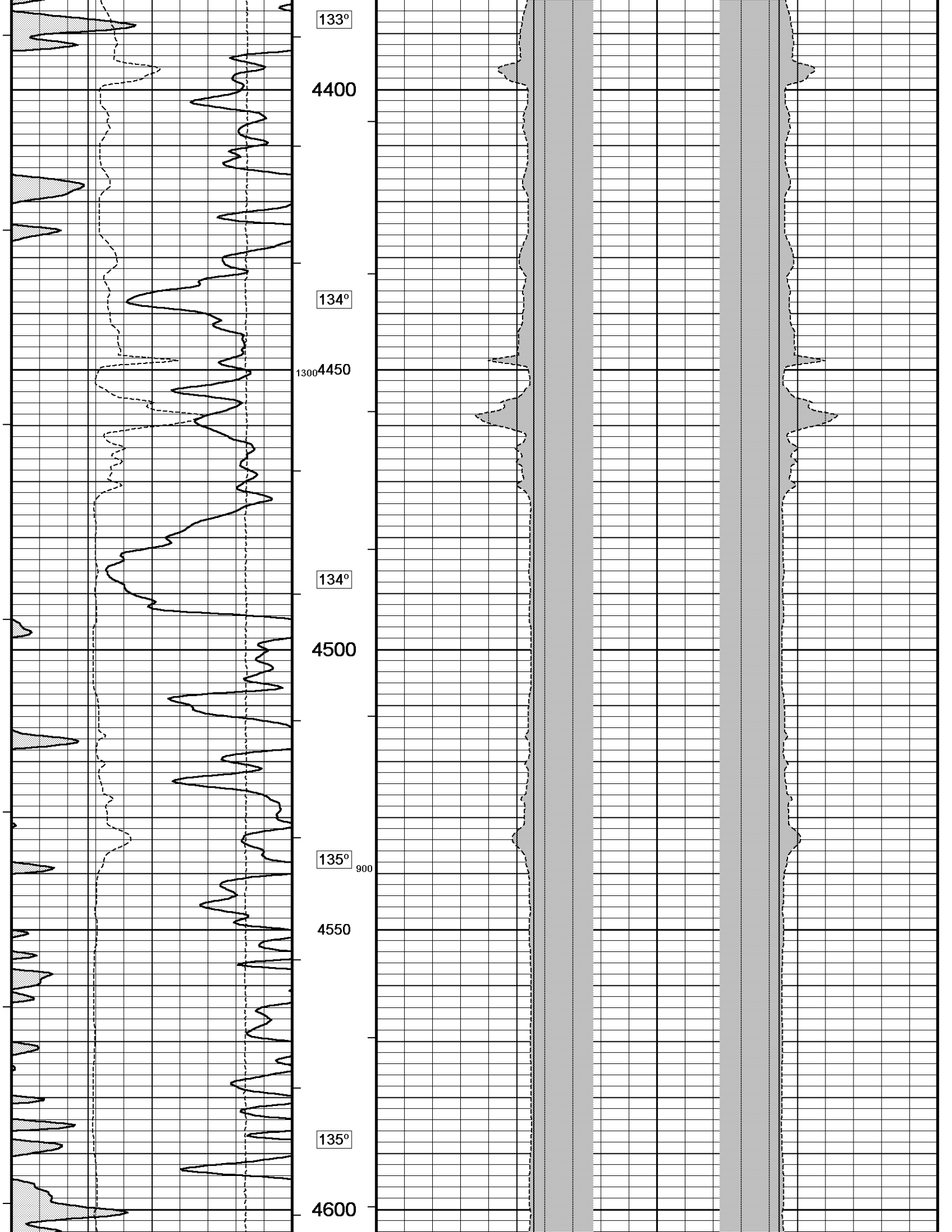


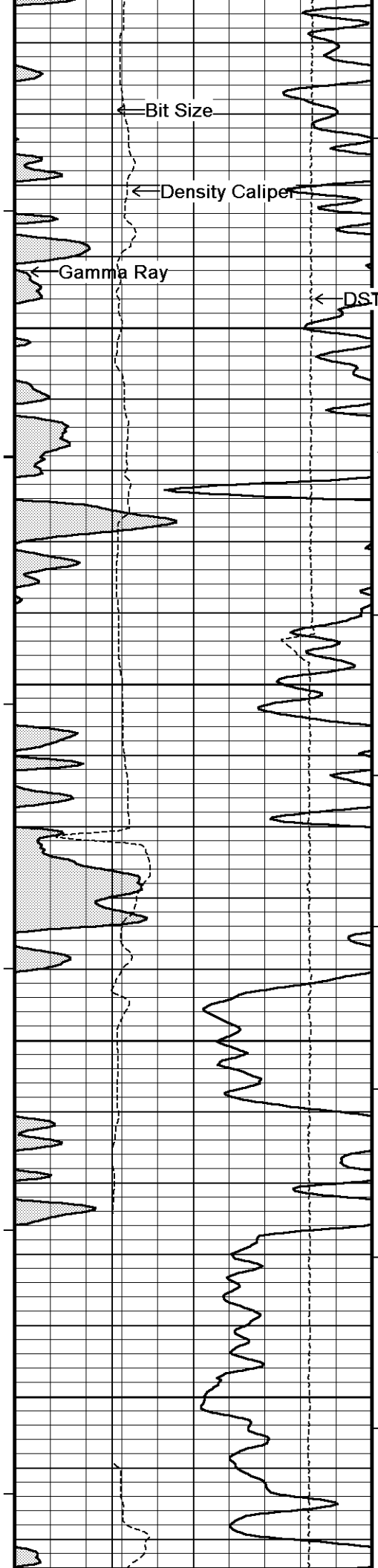












136°

DST Uphole Tension
4650

1200

136°

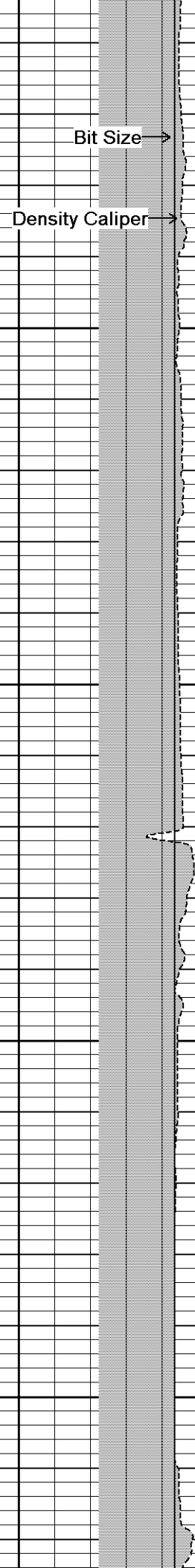
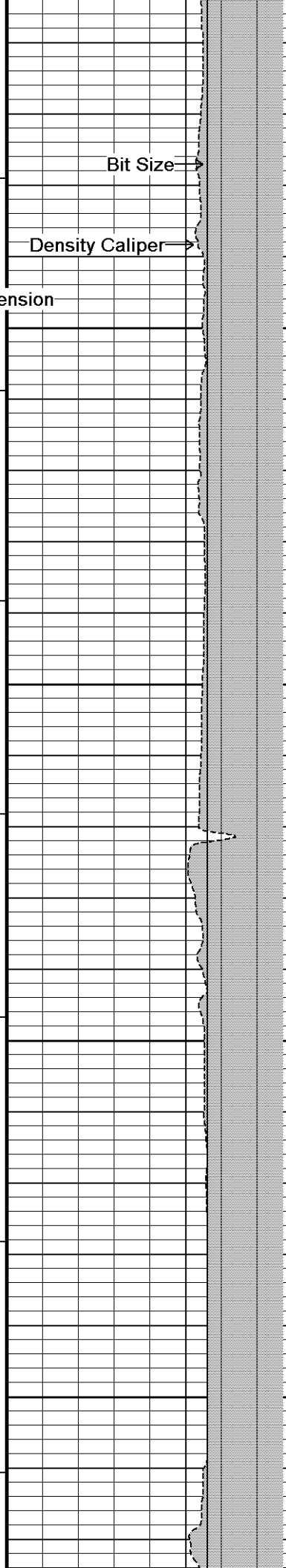
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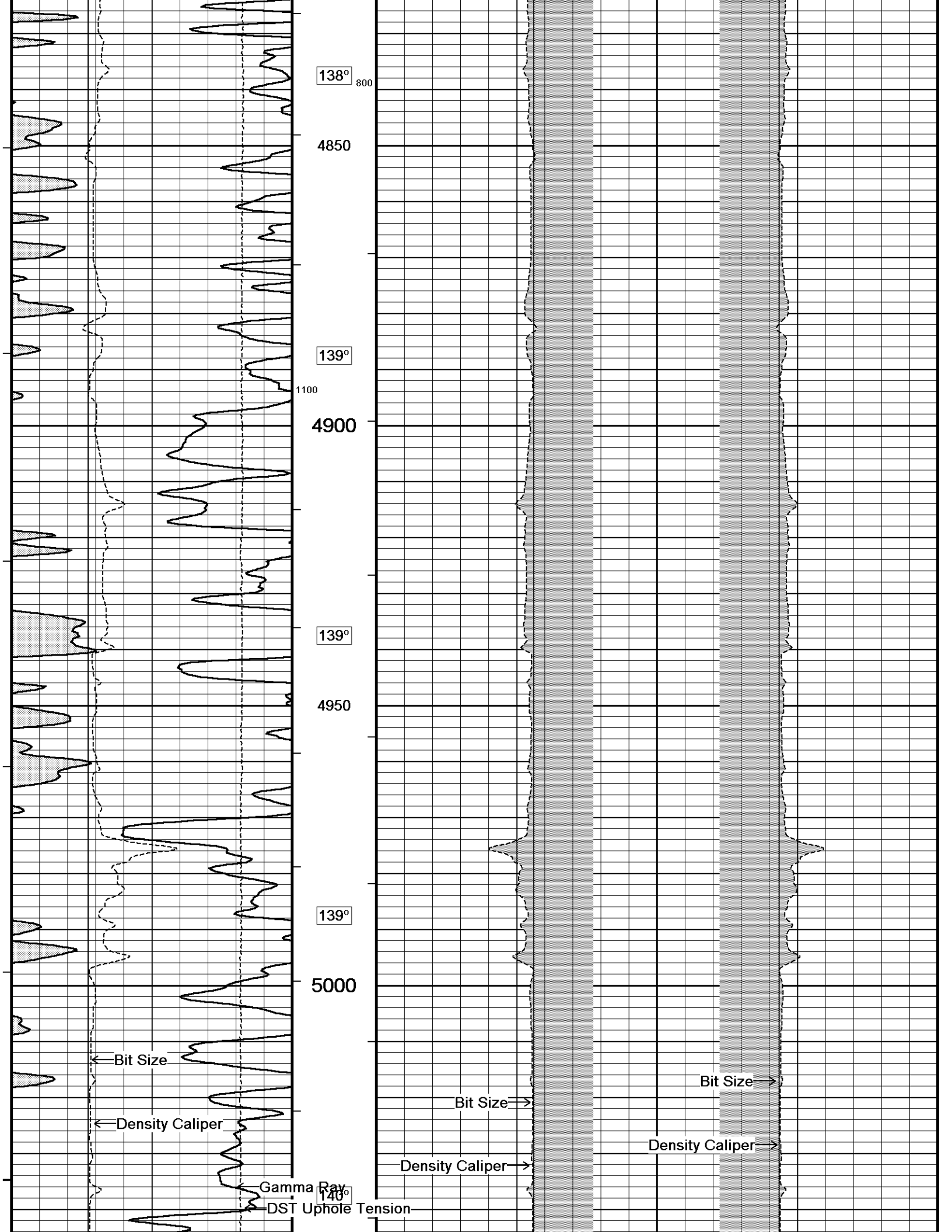
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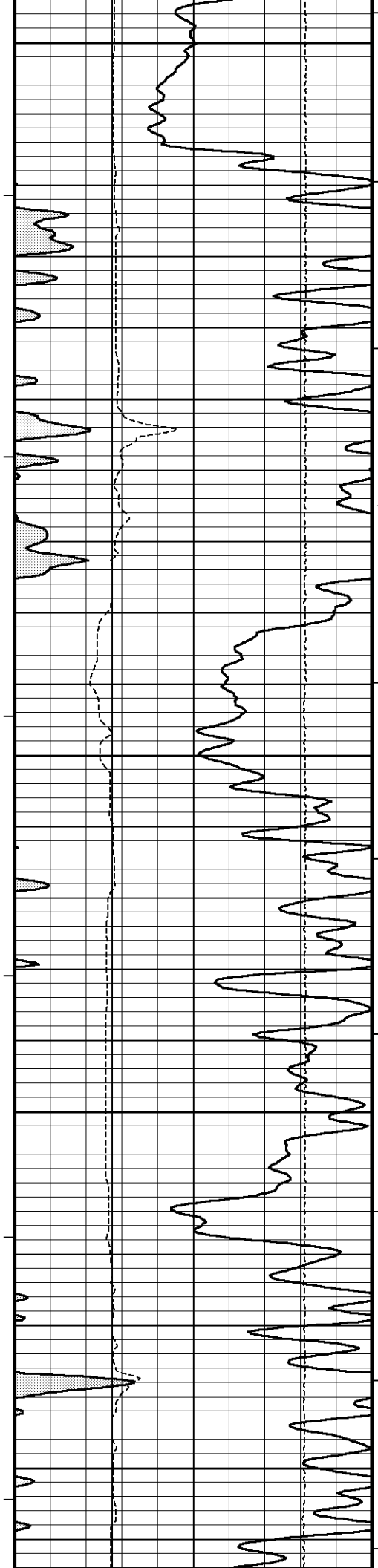
4750

137°

4800







5050

141°

5100

1000

141°

700

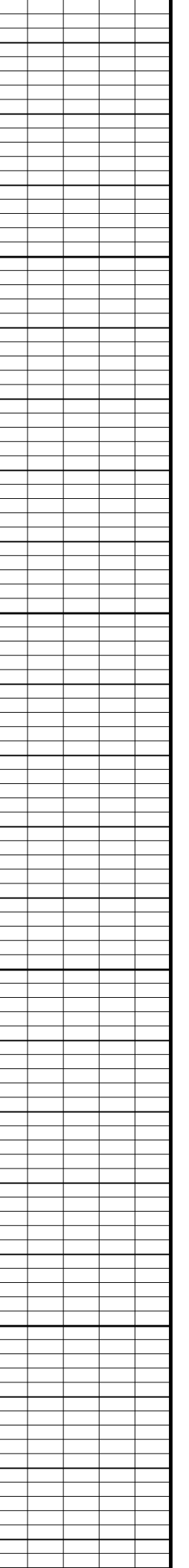
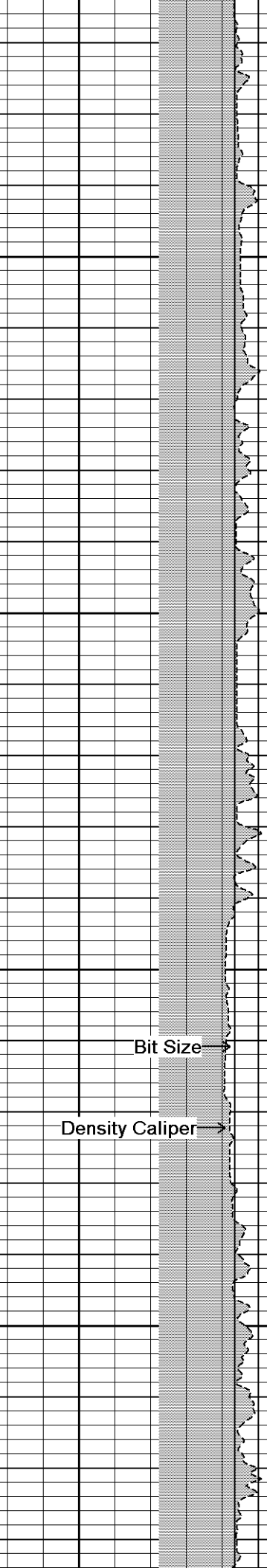
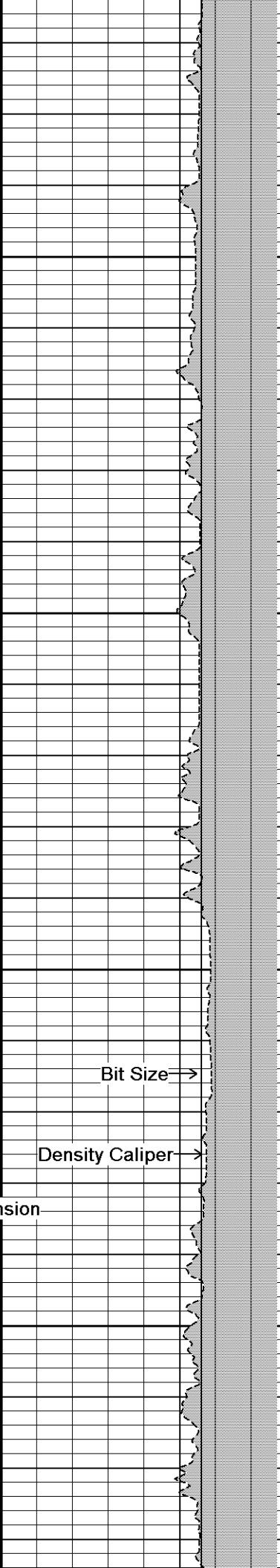
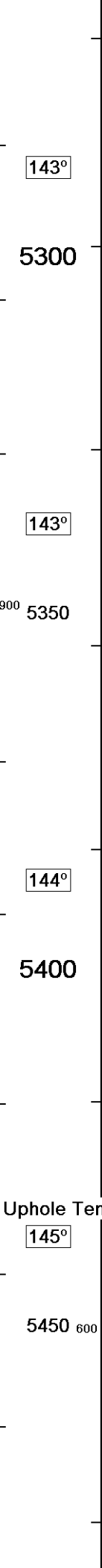
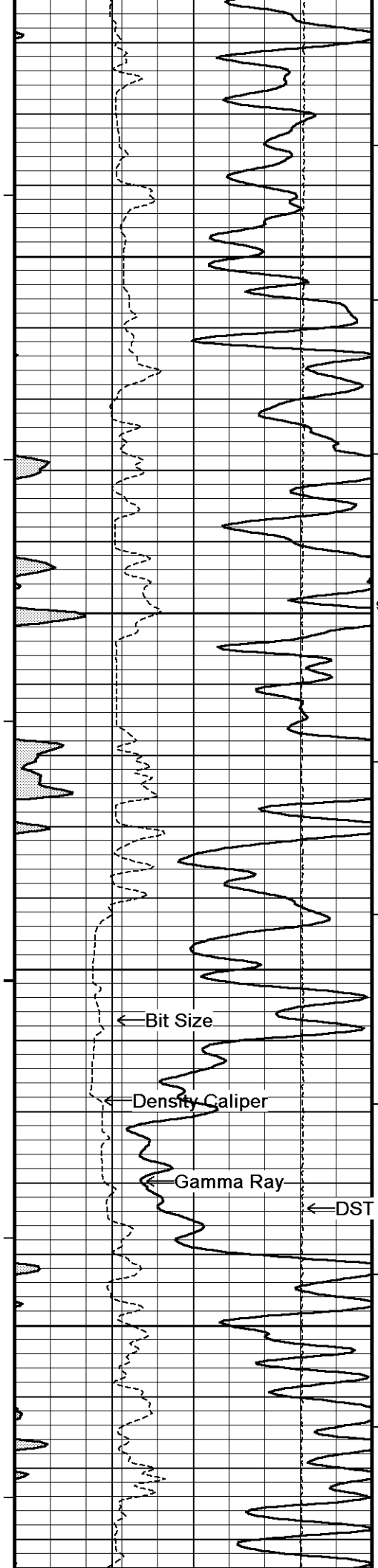
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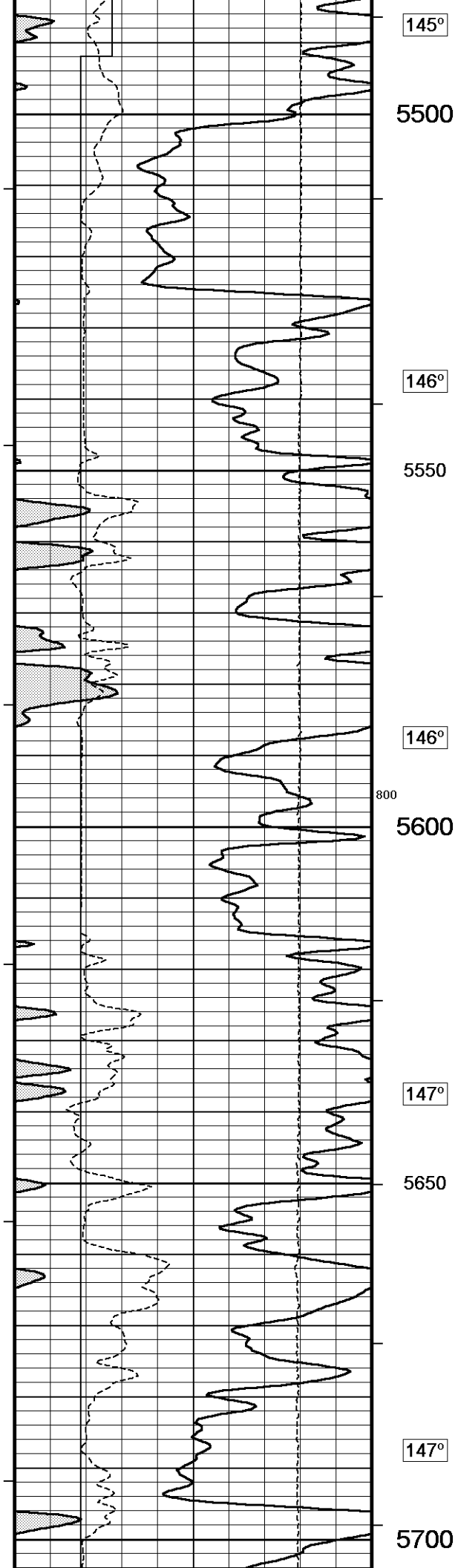
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5200

142°

5250





145°

5500

146°

5550

146°

800

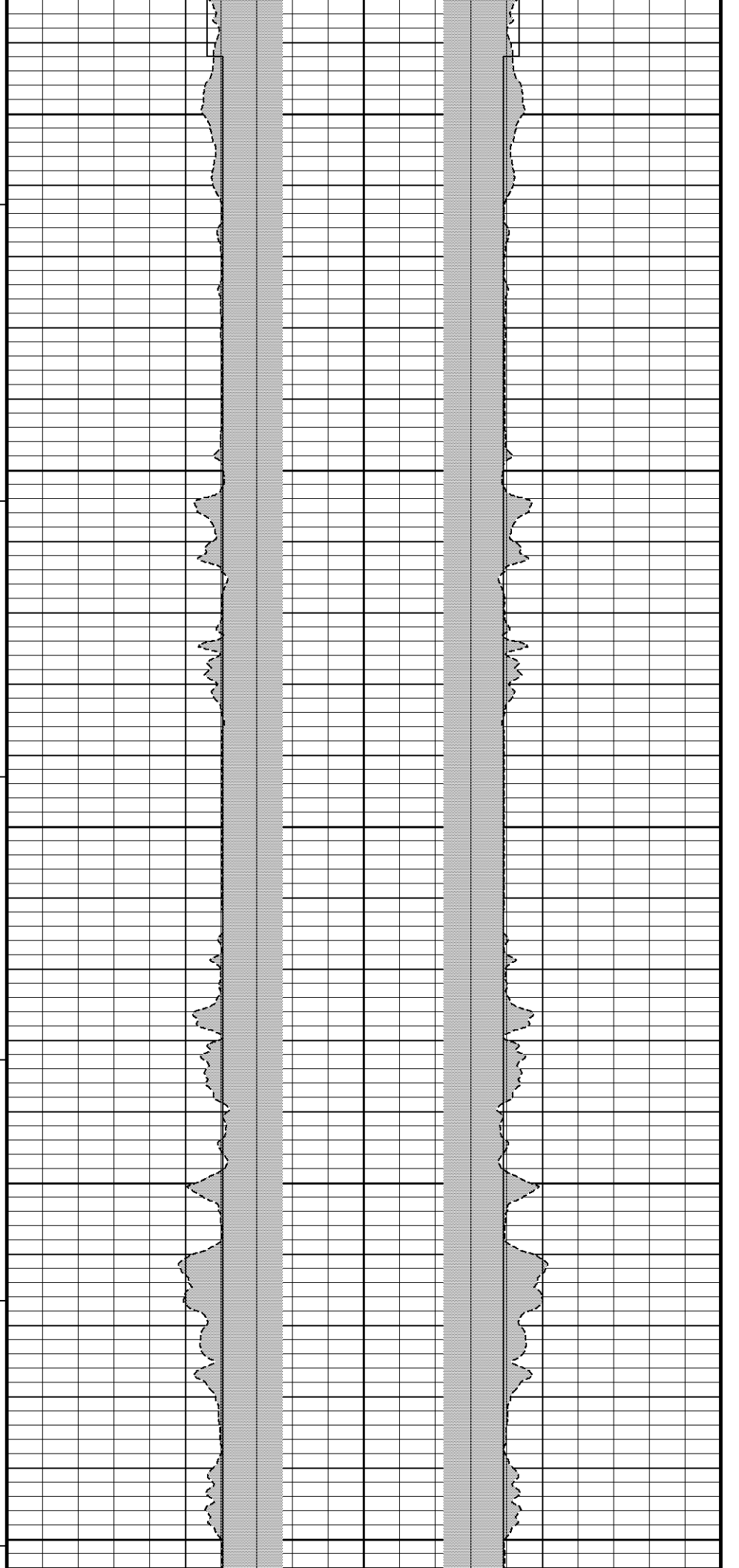
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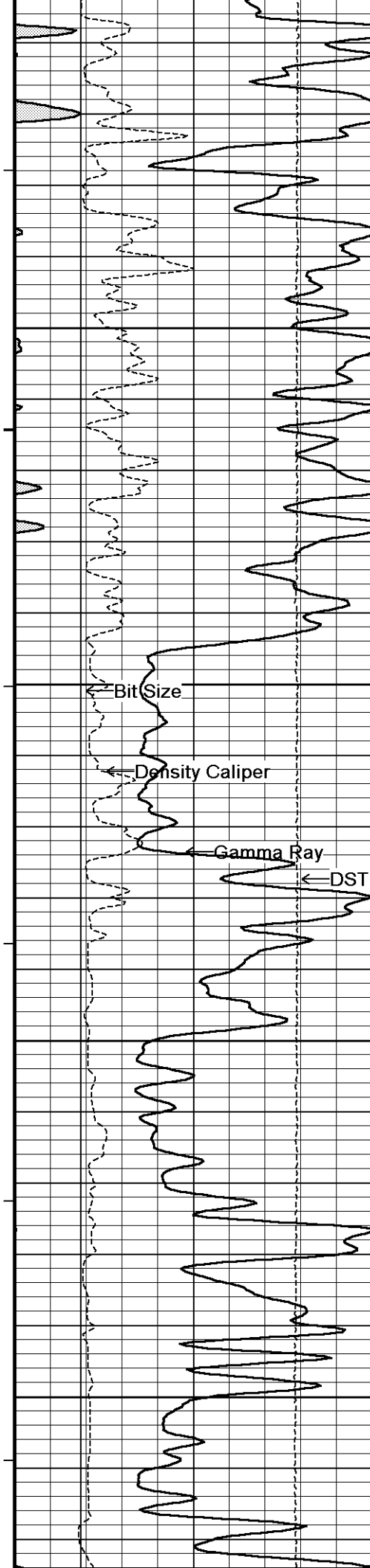
147°

5650

147°

5700





148°

5750

149°

5800 500

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

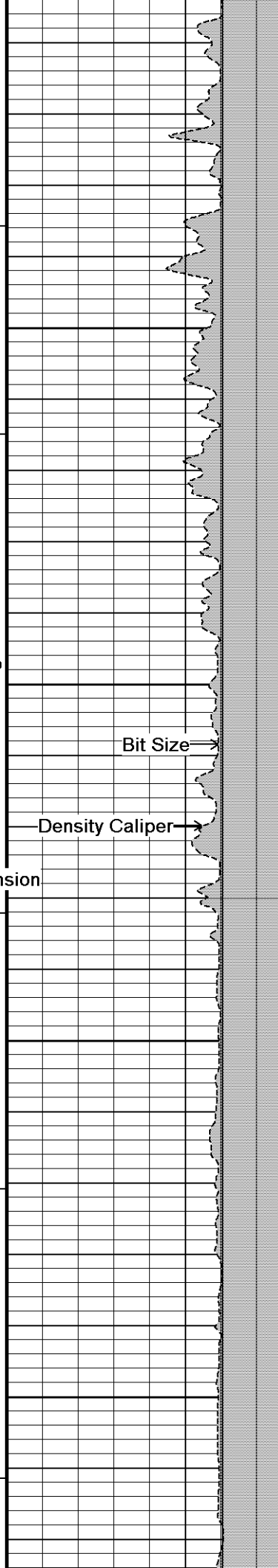
149°

700

5850

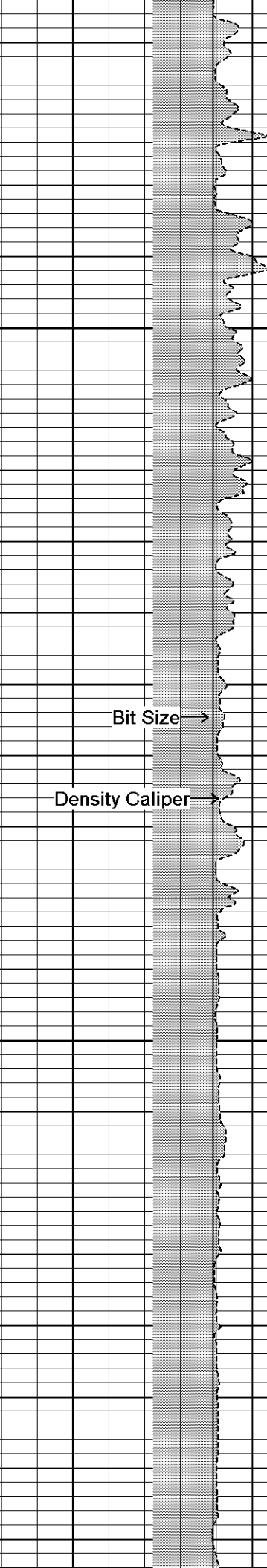
149°

5900



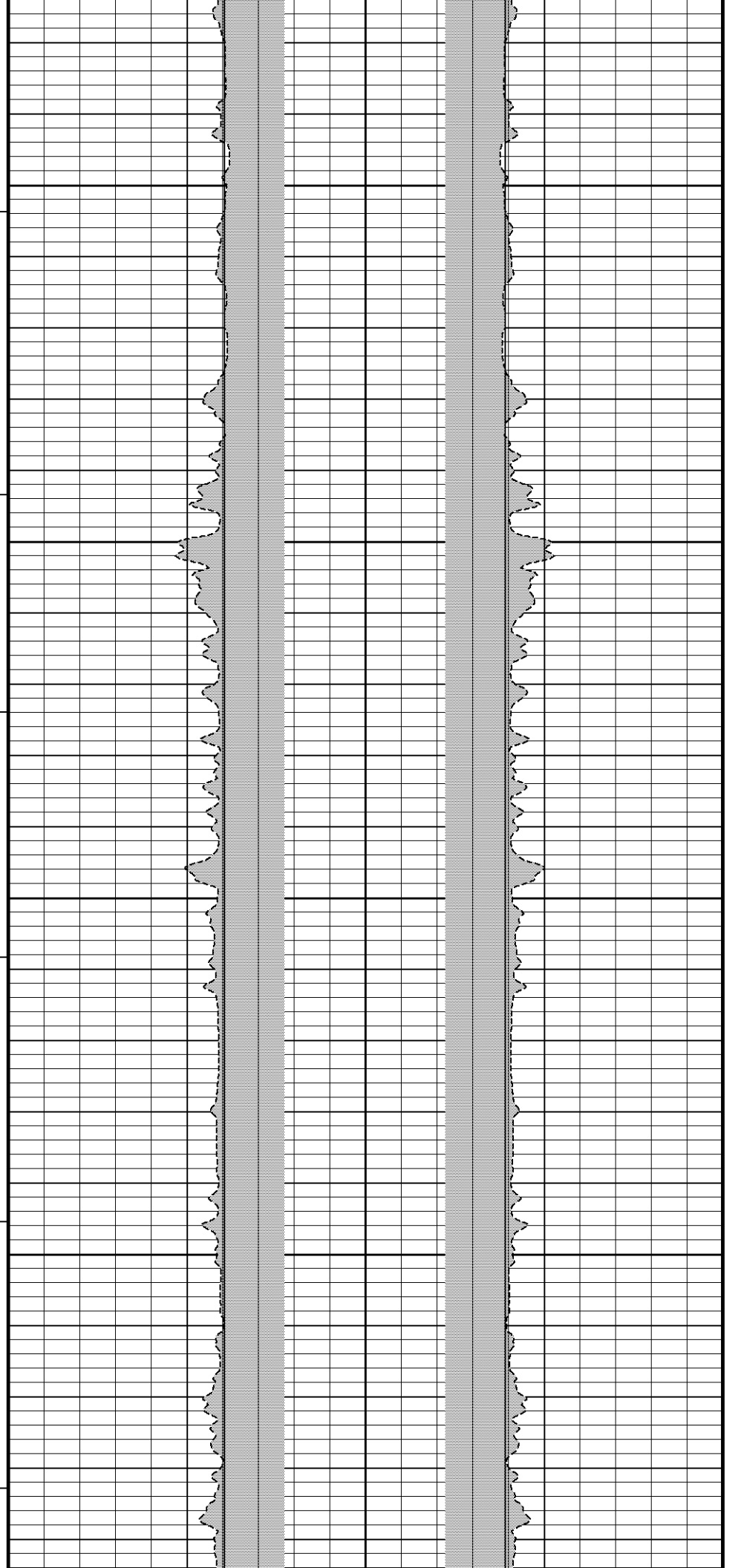
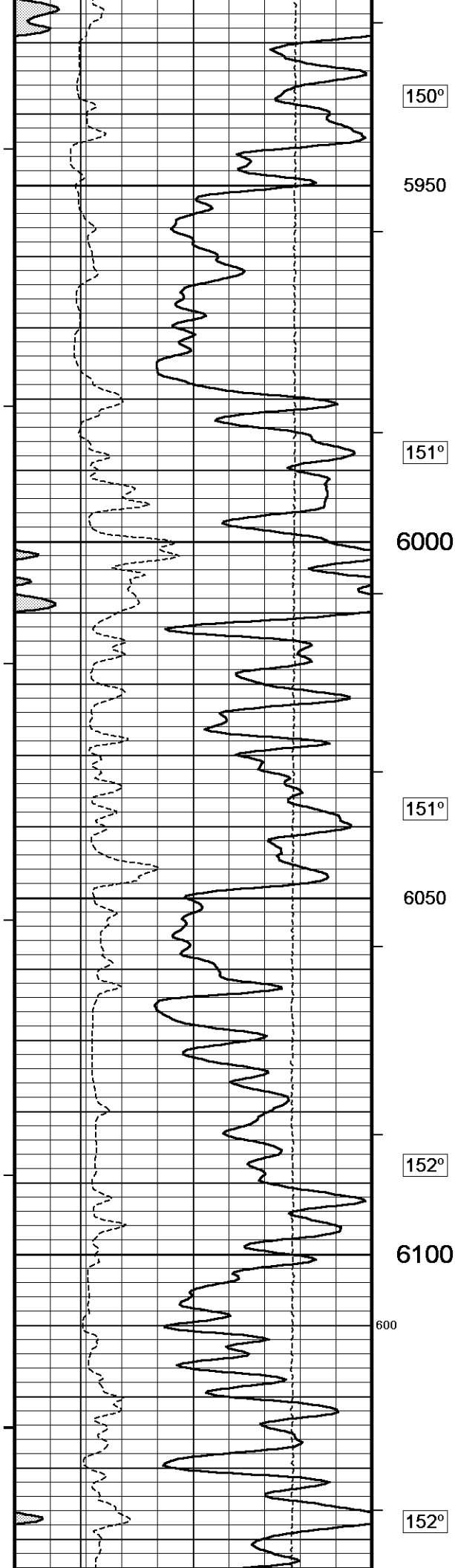
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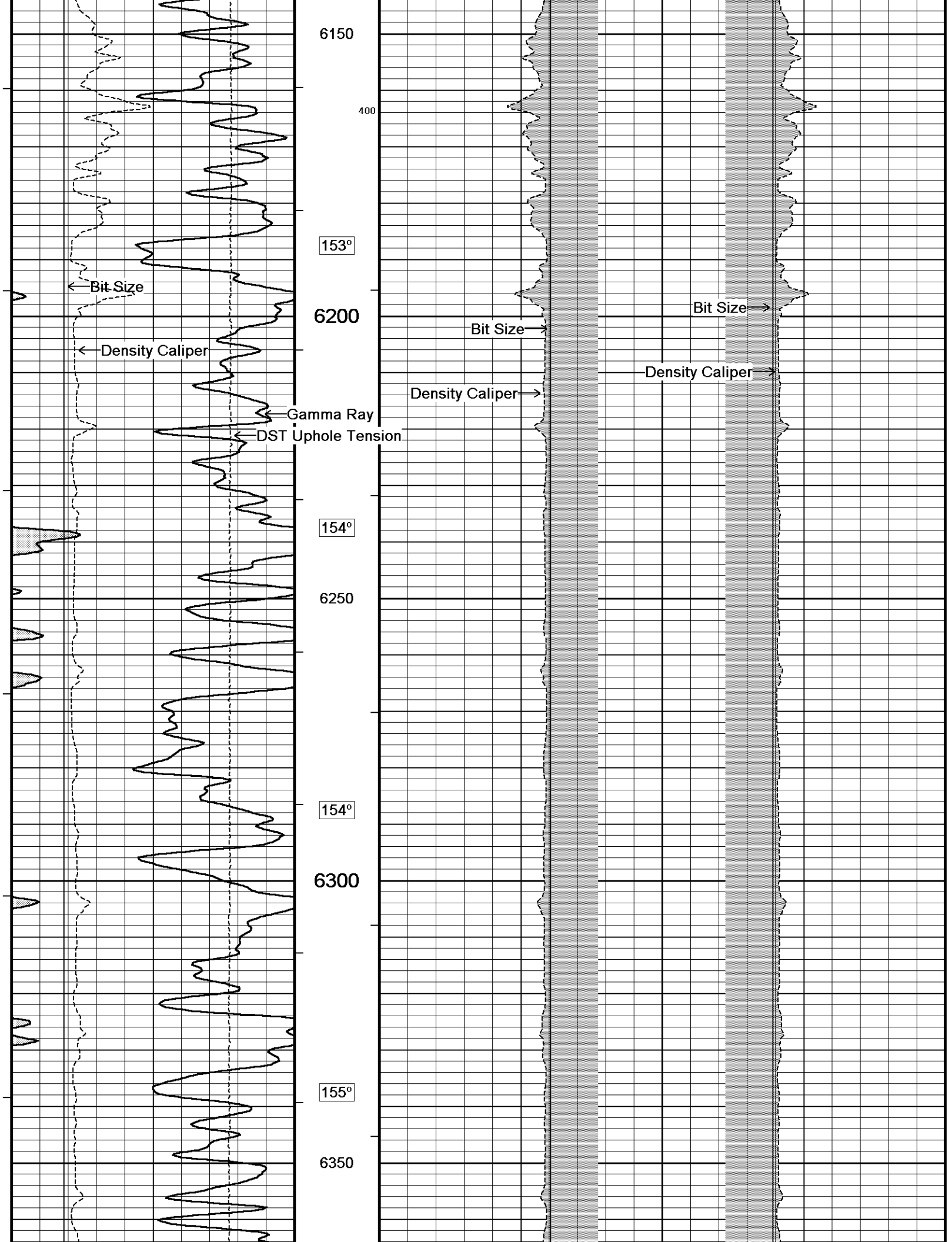
Density Caliper

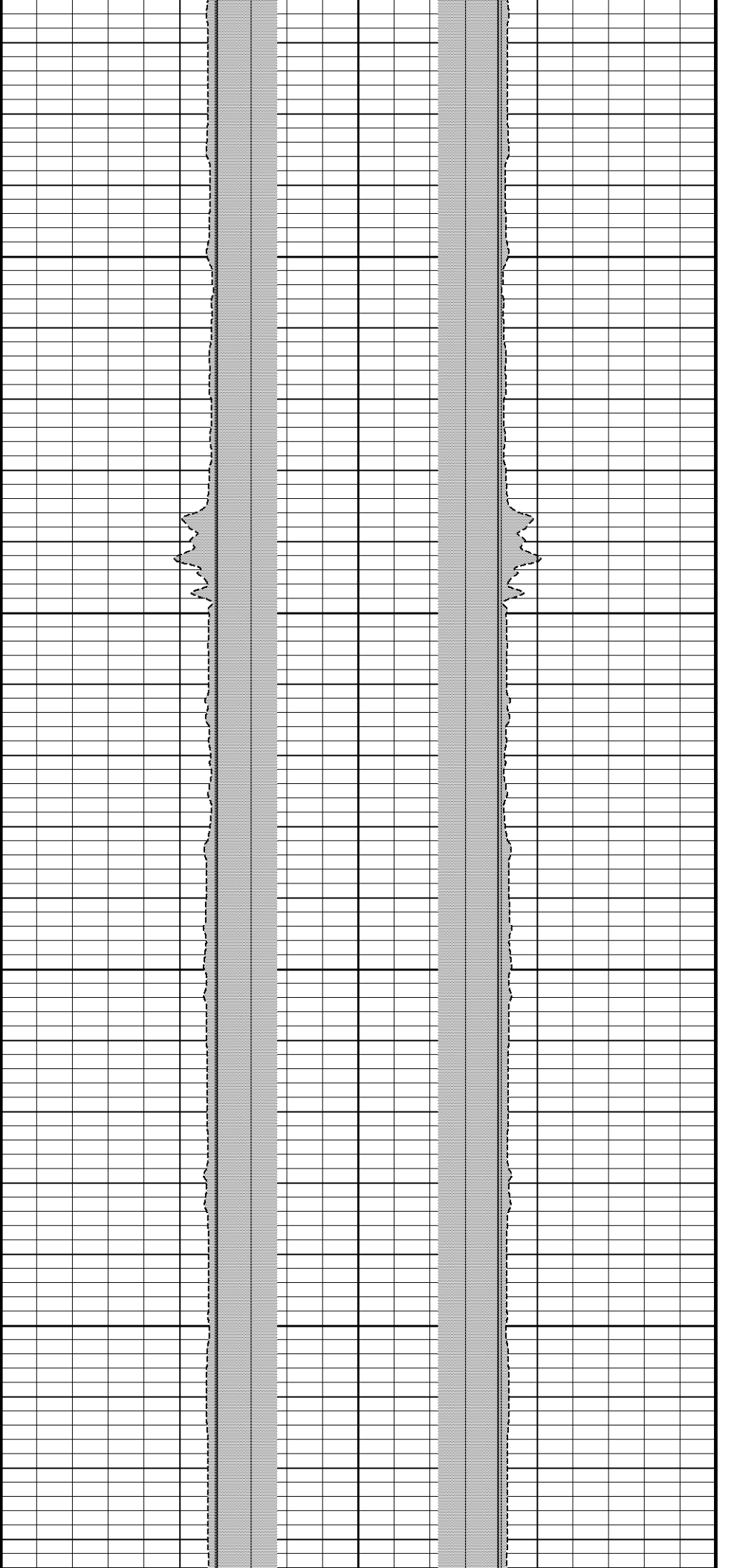
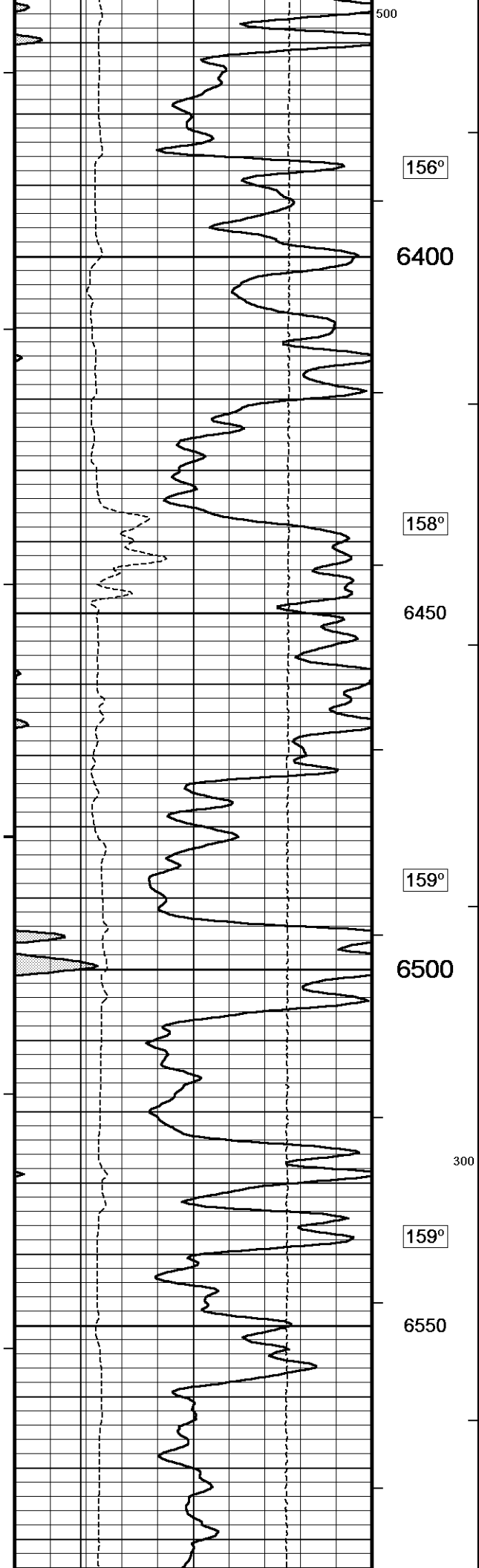


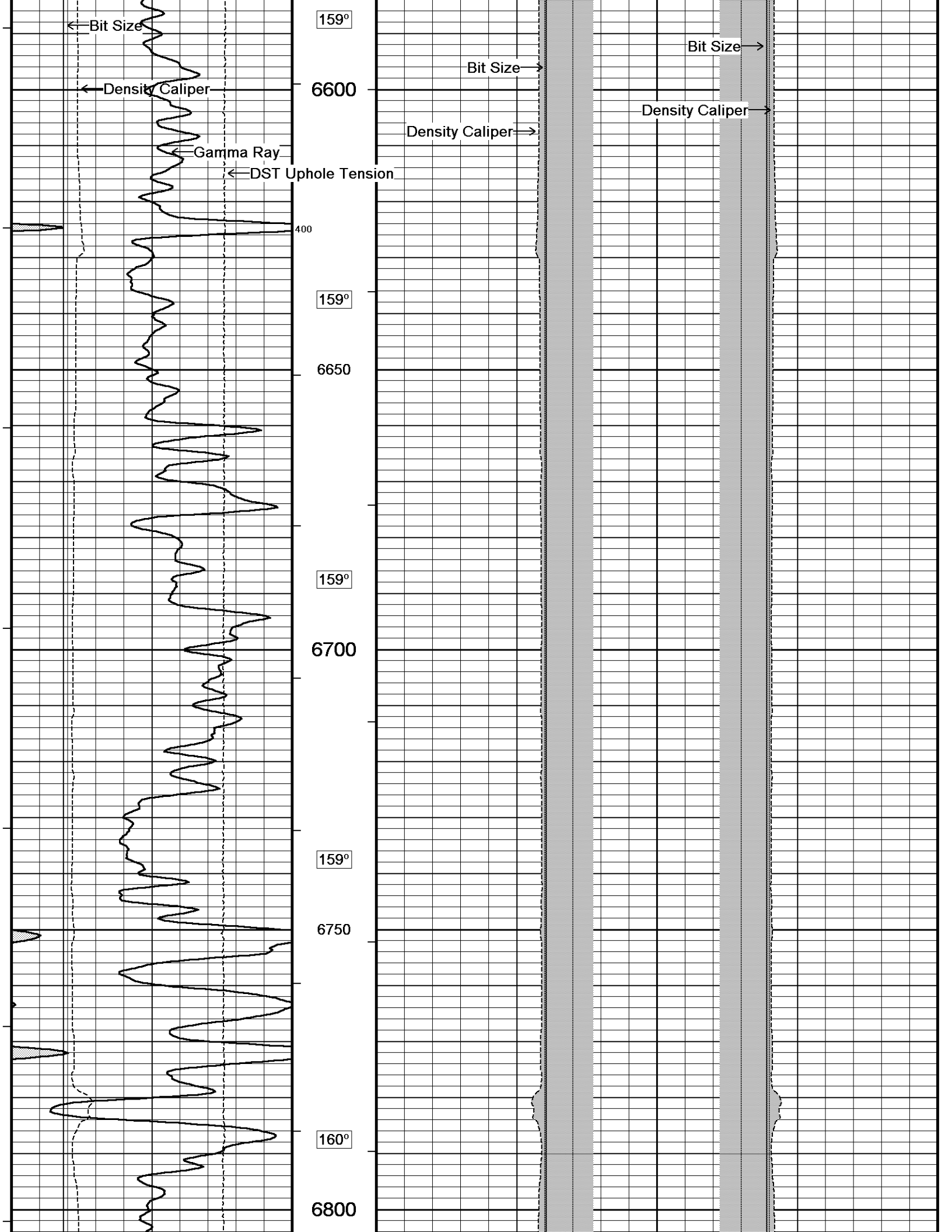
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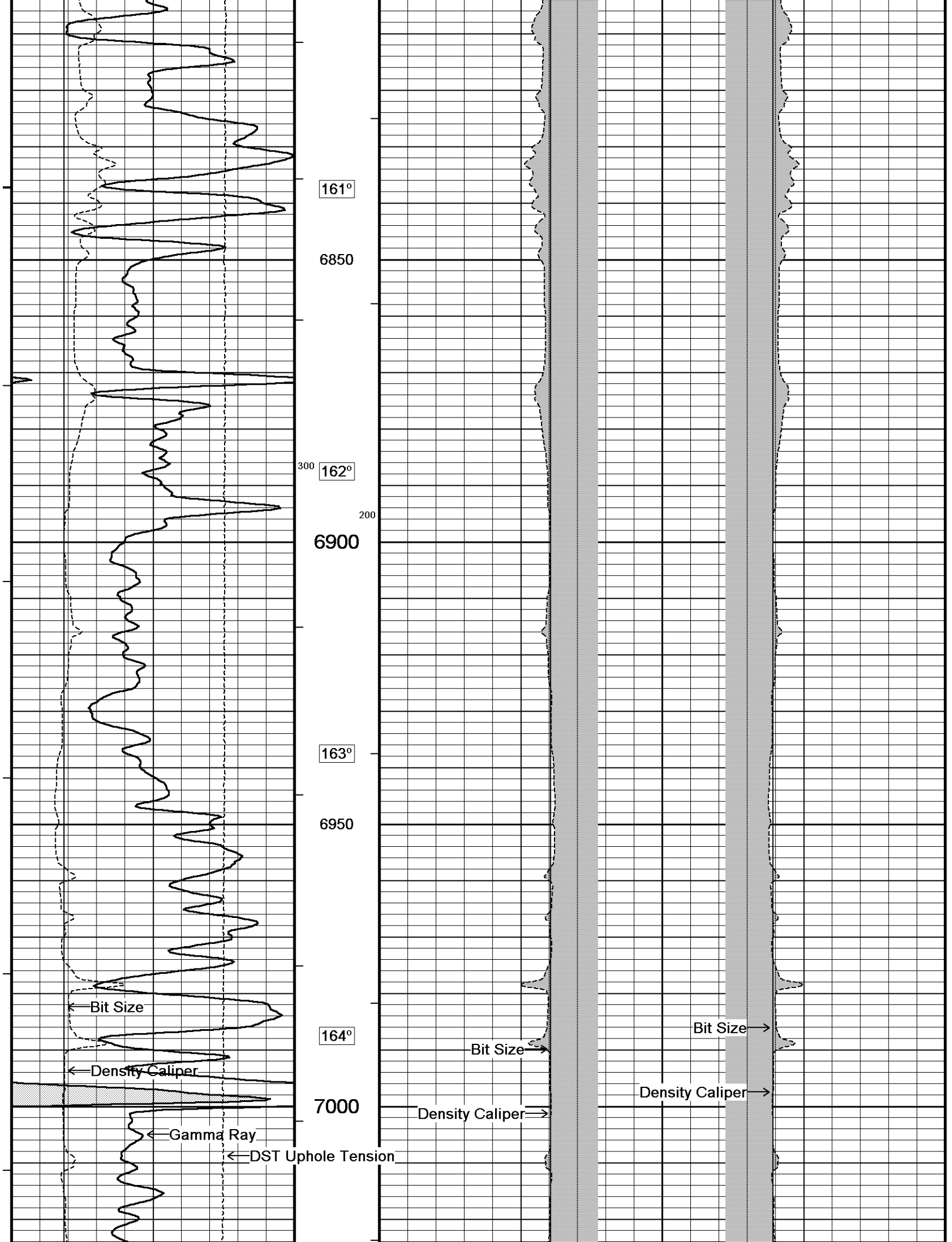
Density Caliper

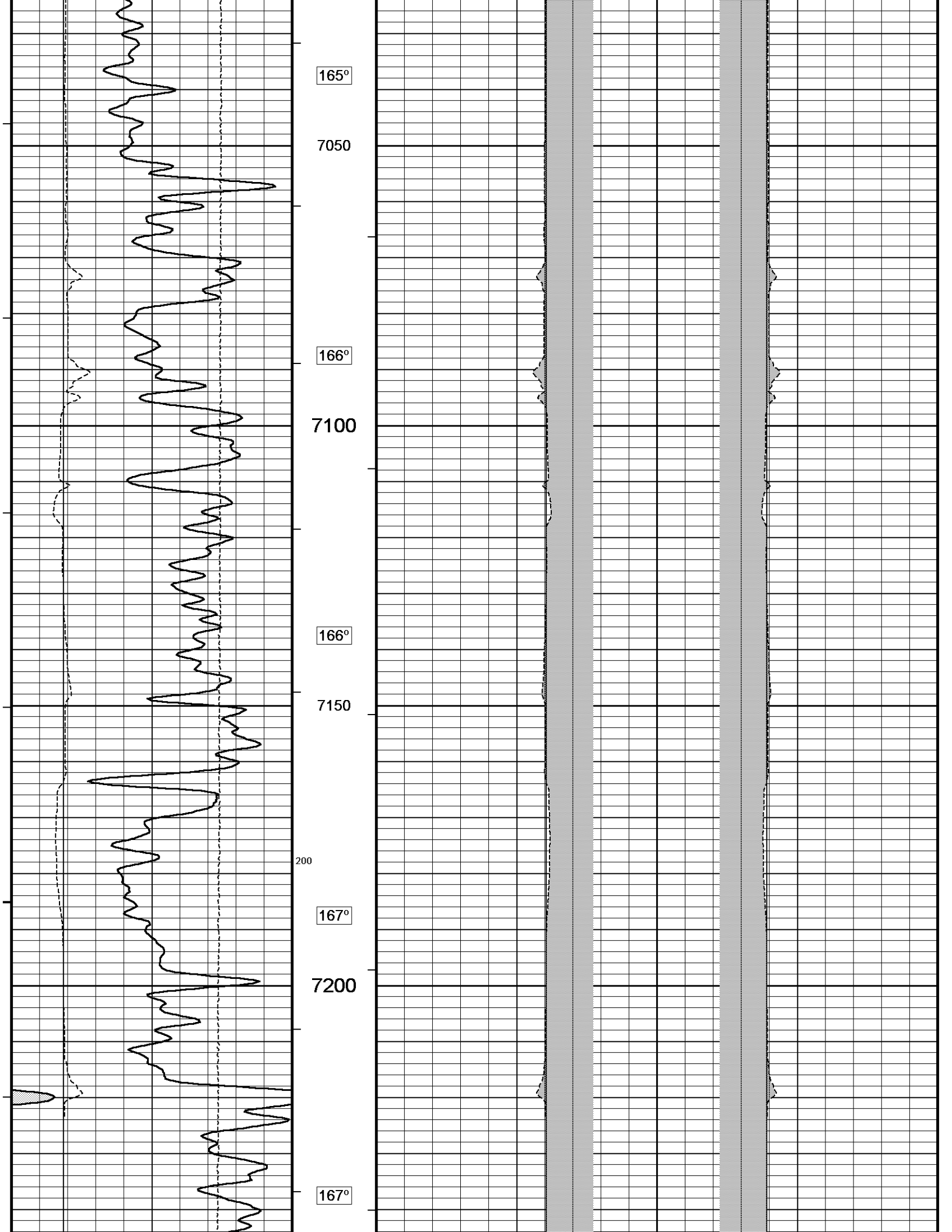


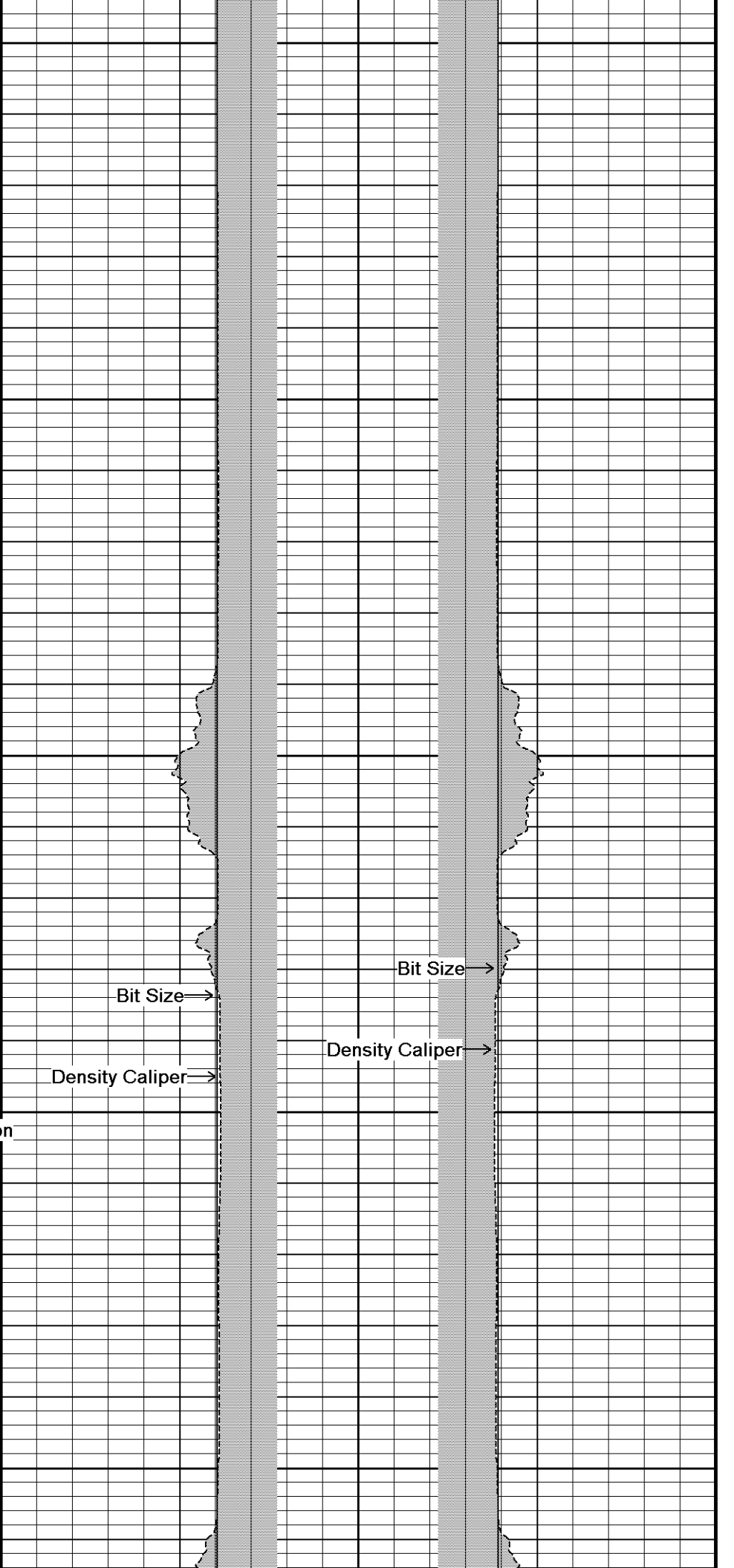
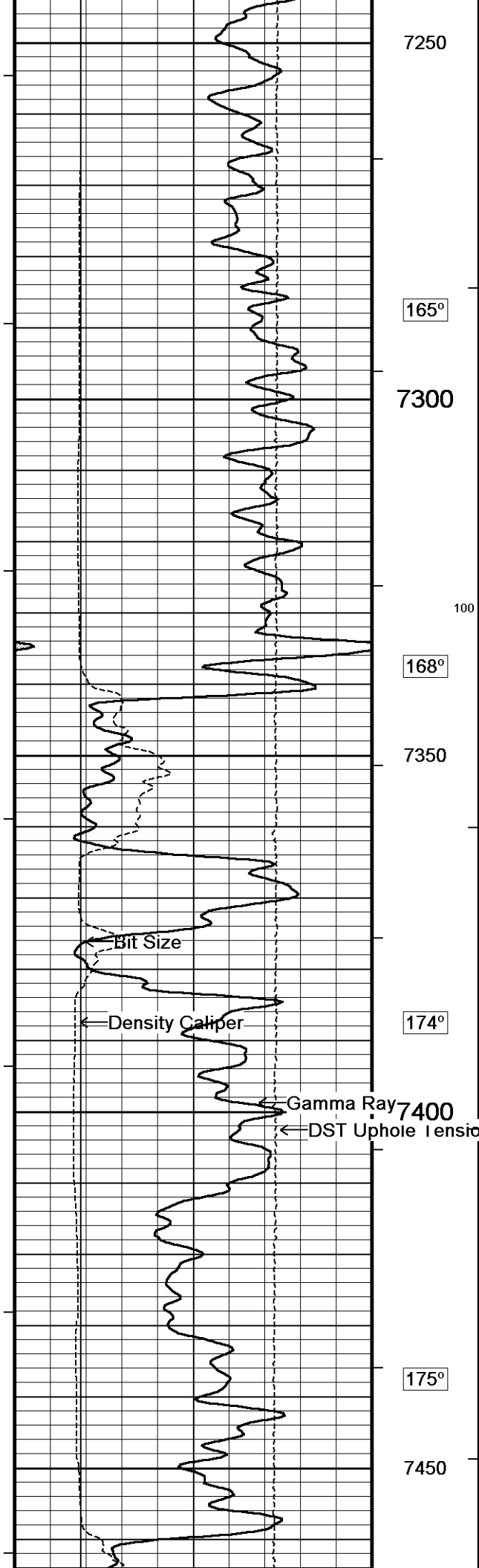


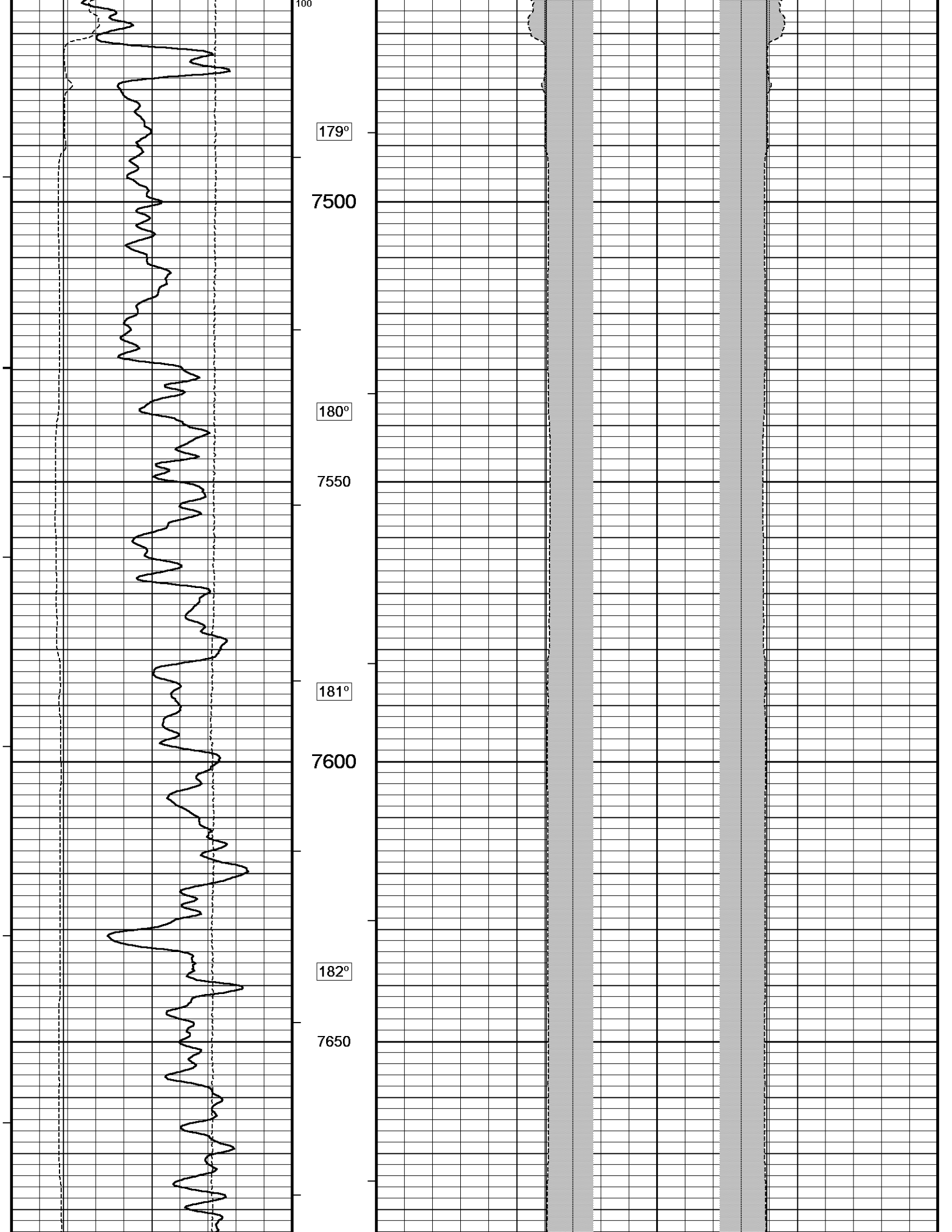


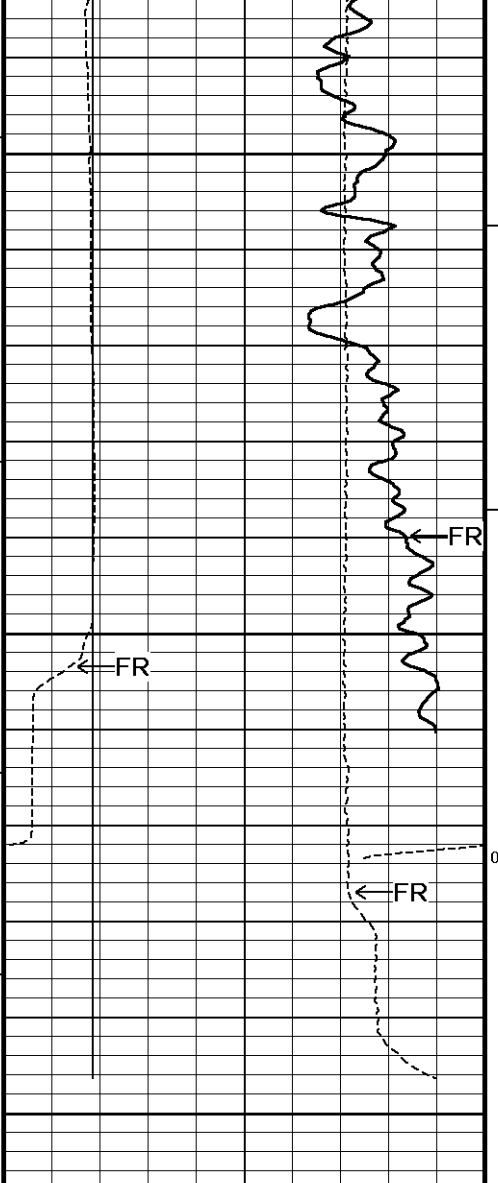




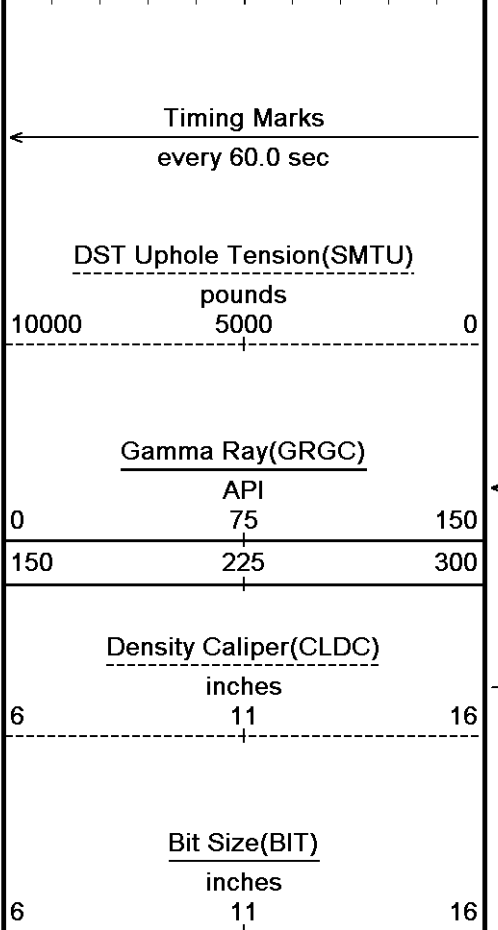








185°
7700
185°
7750
0
7800



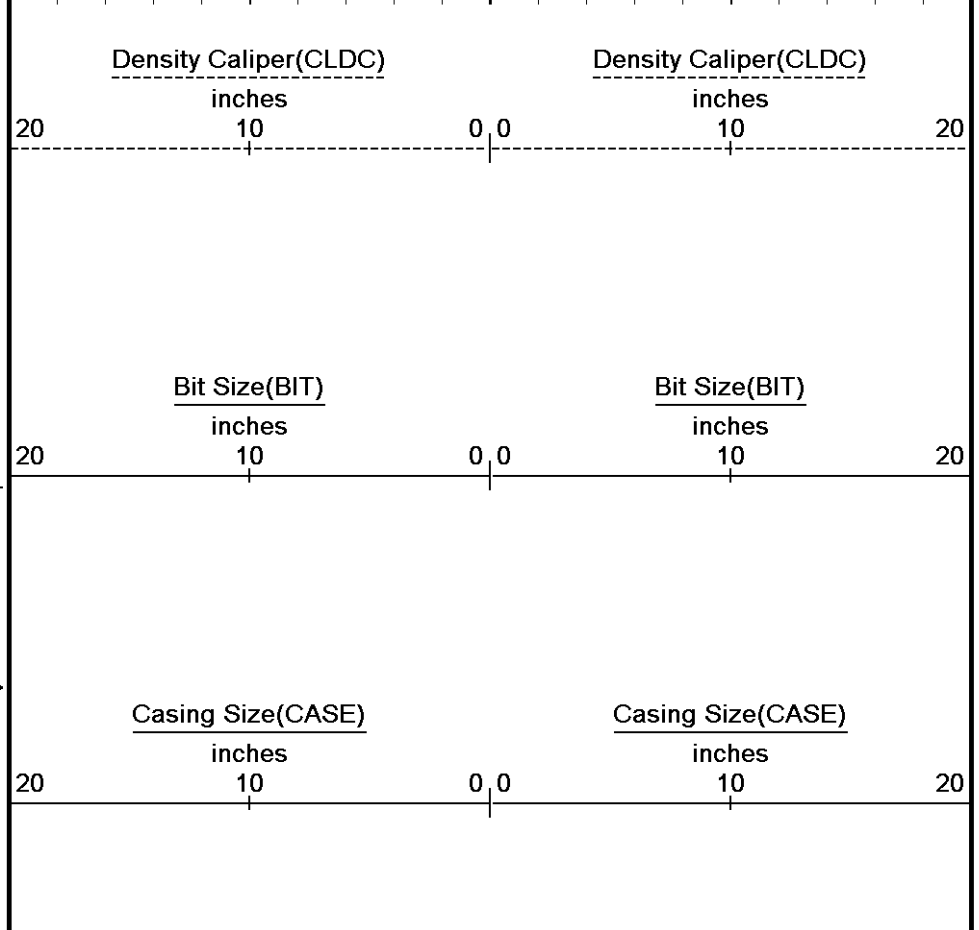
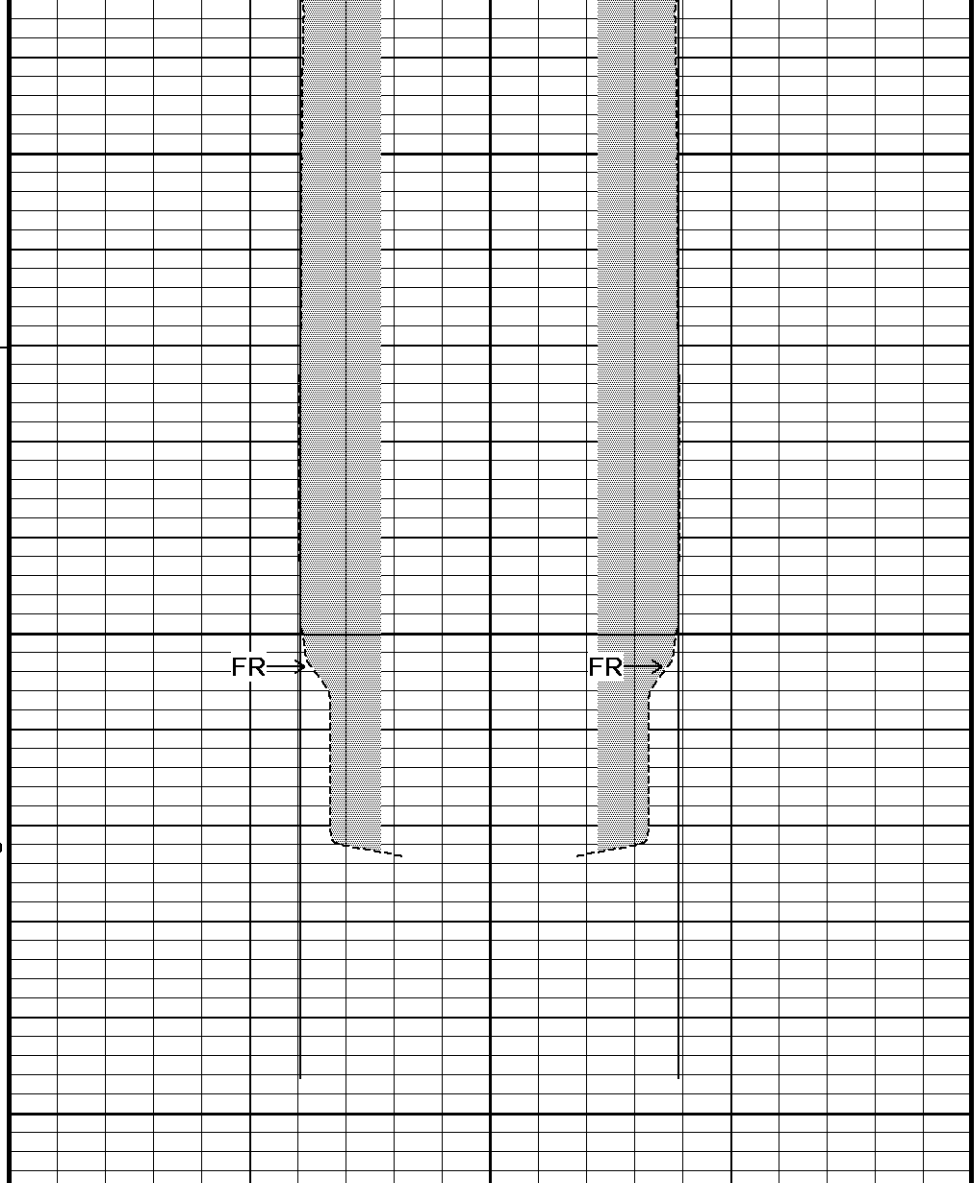
Depth
In
Feet

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale



Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 14-APR-2011 18:57

Filename: C:\LOGS\Bill Barrett\GGU Daley 31A-30-691\MAIN PASS.dta

Recorded on 14-APR-2011 14:57

System Versions: Logged with 11.02.2782 Plotted with 11.02.2782



5 INCH MAIN LOG



DOWNHOLE EQUIPMENT

C:\LOGS\Bill Barrett\GGU Daley 31A-30-691\MAIN PASS.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-J.A Compact Swivel Head Adaptor

SHA-J.A 314 LG: 2.30 ft WT: 22.0 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

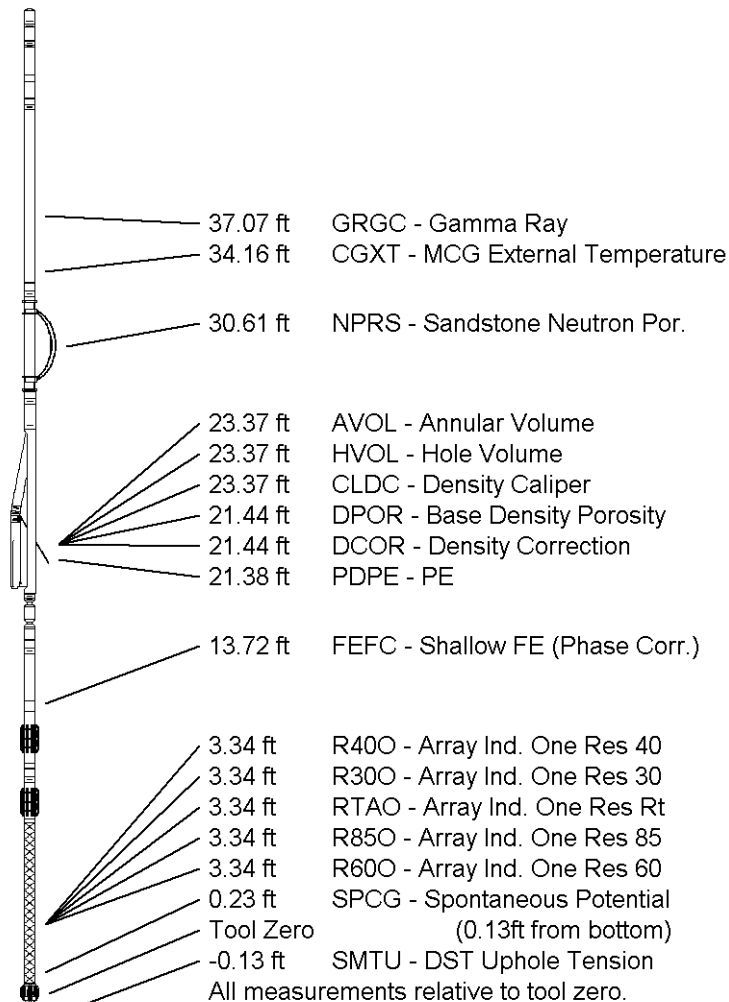
Compact Focussed Electric

MFE-A.A 85 LG: 6.05 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

Total Length: 46.23 ft Weight: 363.8 lb



COMPANY

BILL BARRETT CORPORATION

WELL

GGU DALEY 31A-30-691

FIELD

GIBSON GULCH

PROVINCE/COUNTY

GARFIELD

COUNTRY/STATE

U.S.A. / COLORADO

Elevation Kelly Bushing	5847.00	feet
Elevation Drill Floor	5847.00	feet
Elevation Ground Level	5824.00	feet

First Reading	7755.00
Depth Driller	7775.00 feet
Depth Logger	7777.00 feet



Weatherford®

HOLE VOLUME
CALIPER LOG