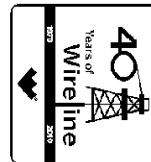




Weatherford

**HOLE VOLUME
CALIPER
LOG**

COMPANY **BILL BARRETT CORPORATION**
WELL **CB-TG LAND 21C-20-692**
FIELD **MAMM CREEK**
PROVINCE/COUNTY **GARFIELD**
COUNTRY/STATE **U.S.A. / COLORADO**
LOCATION **SHL: 643' FNL & 2577' FEL**
BHL: 469' FNL & 1972' FWL



SEC **20** TWP **6S** RGE **92W** Other Services
MPD/MDN
MAI/MFE

Permit Number
Permanent Datum G.L., Elevation 5530 feet
Log Measured From K.B. @ 23 FT above Permanent Datum
Drilling Measured From K.B.

Elevations:
KB 5553.00
DF 5552.00
GL 5530.00

Date	21-JUNE-2011
Run Number	ONE
Depth Driller	7687.00 feet
Depth Logger	7685.00 feet
First Reading	7661.00
Last Reading	808.00
Casing Driller	813.00 feet
Casing Logger	808.00 feet
Bit Size	7.875 inches
Hole Fluid Type	LSND
Density / Viscosity	10.50 lb/USg 50.00 CP
PH / Fluid Loss	9.80 7.60 ml/30Min
Sample Source	FLOW LINE
Rm @ Measured Temp	1.78 @ 93.0 ohm-m
Rmf @ Measured Temp	1.42 @ 93.0 ohm-m
Rmc @ Measured Temp	2.13 @ 93.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.865 @ 195.0 ohm-m
Time Since Circulation	7 HOURS
Max Recorded Temp	195.00 deg F
Equipment Name	COMPACT
Equipment / Base	13045 GD JCT
Recorded By	M.RICHINS
Witnessed By	C. CROWTON

BOREHOLE RECORD

Last Edited: 21-JUN-2011 08:10

Bit Size inches	Depth From feet	Depth To feet
8.750	813.00	4423.00
7.880	4423.00	7687.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	813.00	36.00

REMARKS

LOGGED USING WLS SOFTWARE VERSION 11.02.3186
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
MDN: (1) DUAL BOWSPRING
MFE: (1) 0.5 INCH STANDOFF

2.00 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.

UNDERGAUGE SECTION AT 7400 FEET NOT REPEATED DUE TO OBSTRUCTIONS UPON ENTRY, AND TIGHT PULLS AT SAME DEPTH.

LOGS SPLICED AT 6300 AND 5750 FEET DUE TO SONDE SKEW.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.93" (9 5/8", 36 LB/FT CASING)

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2180CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1570CU.FT.

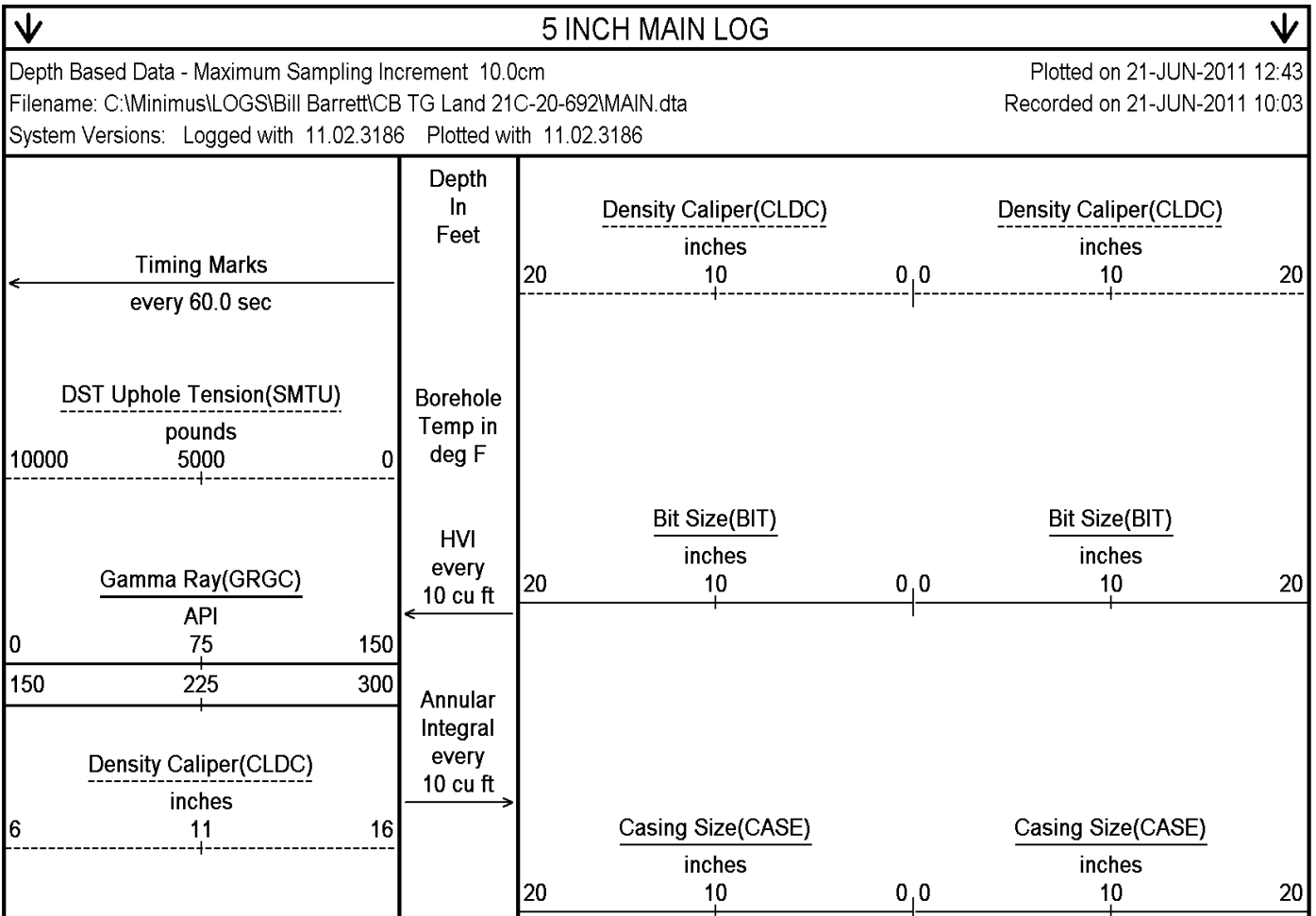
SERVICE ORDER: #3524781

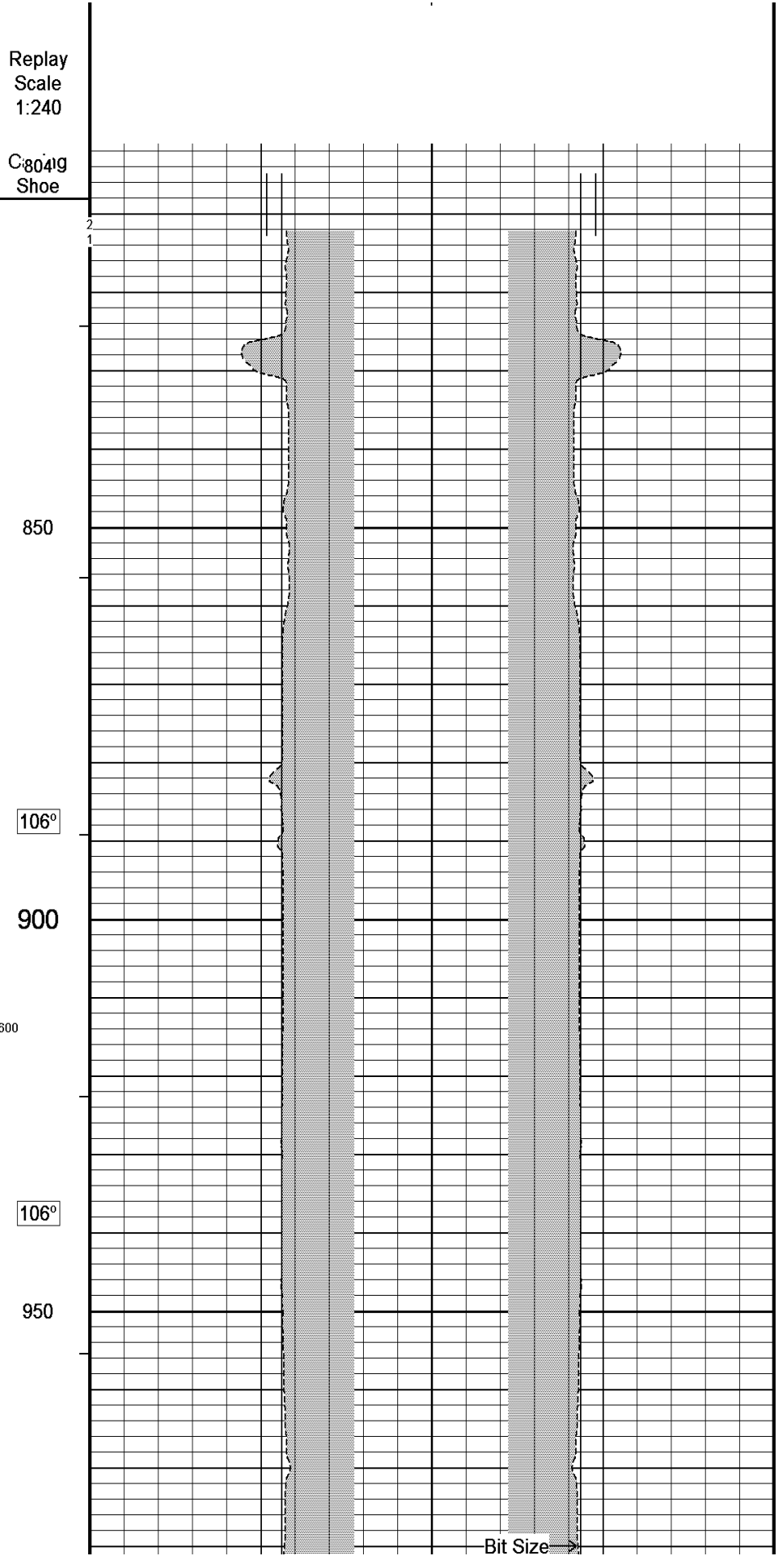
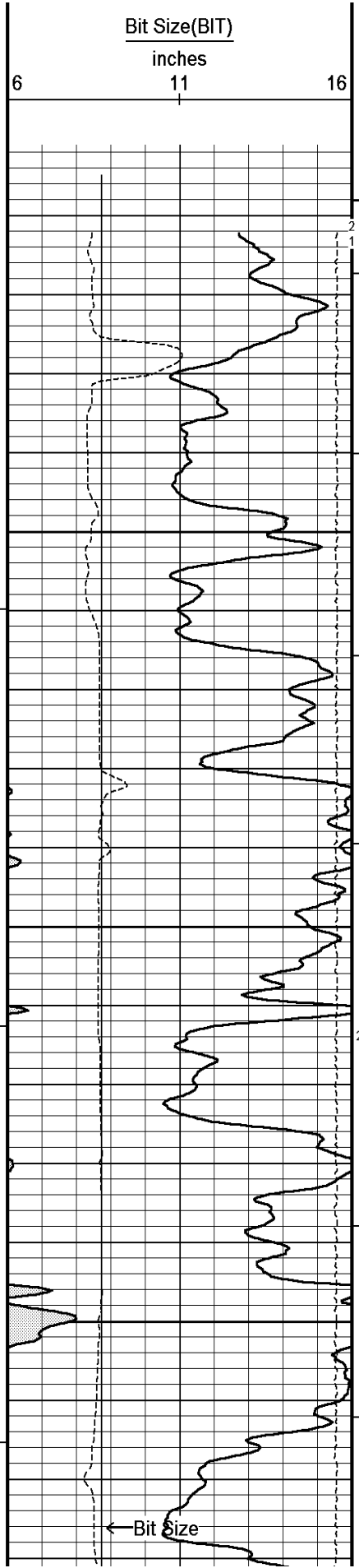
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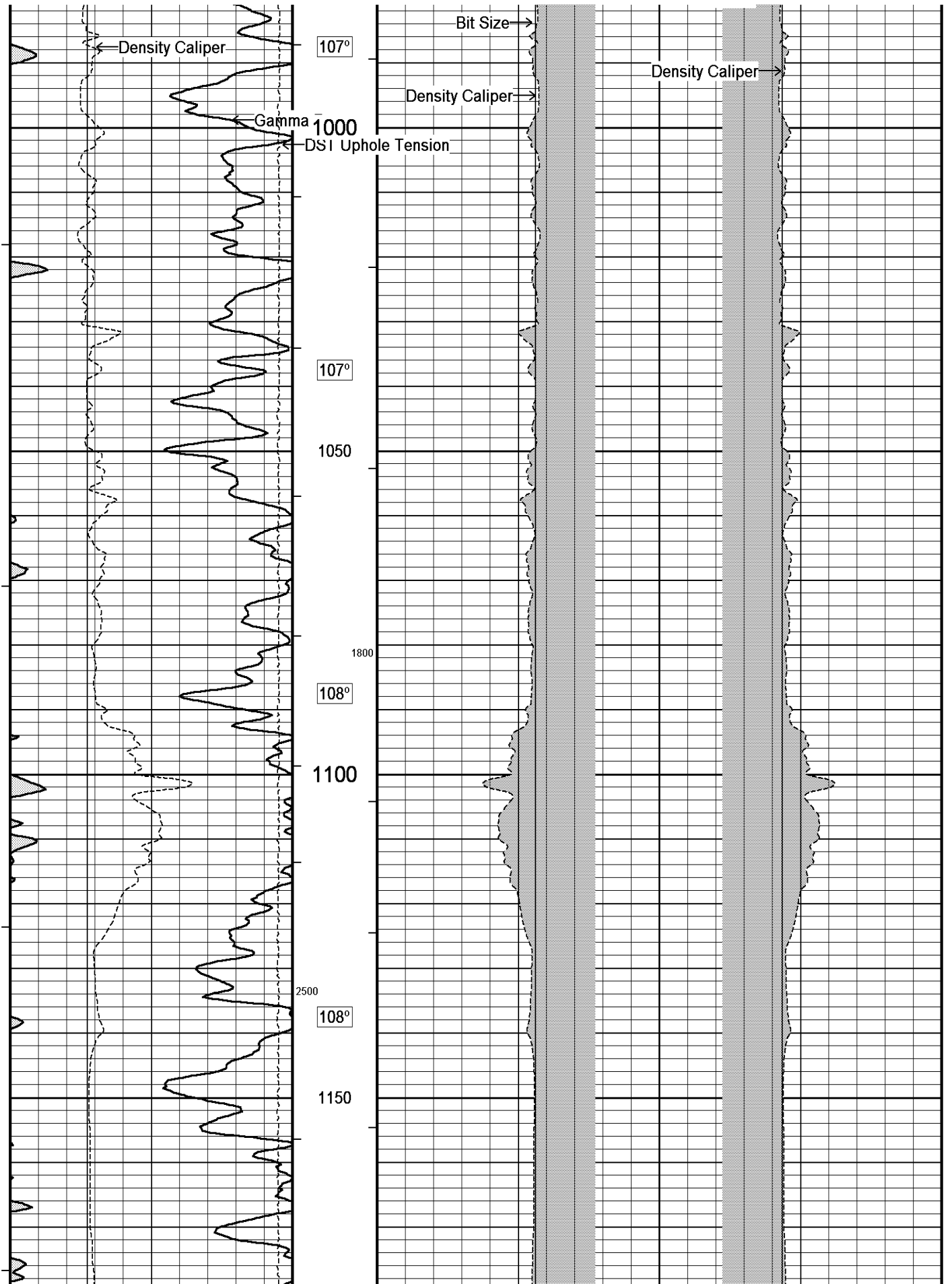
ENGINEER(S): M.RICHINS

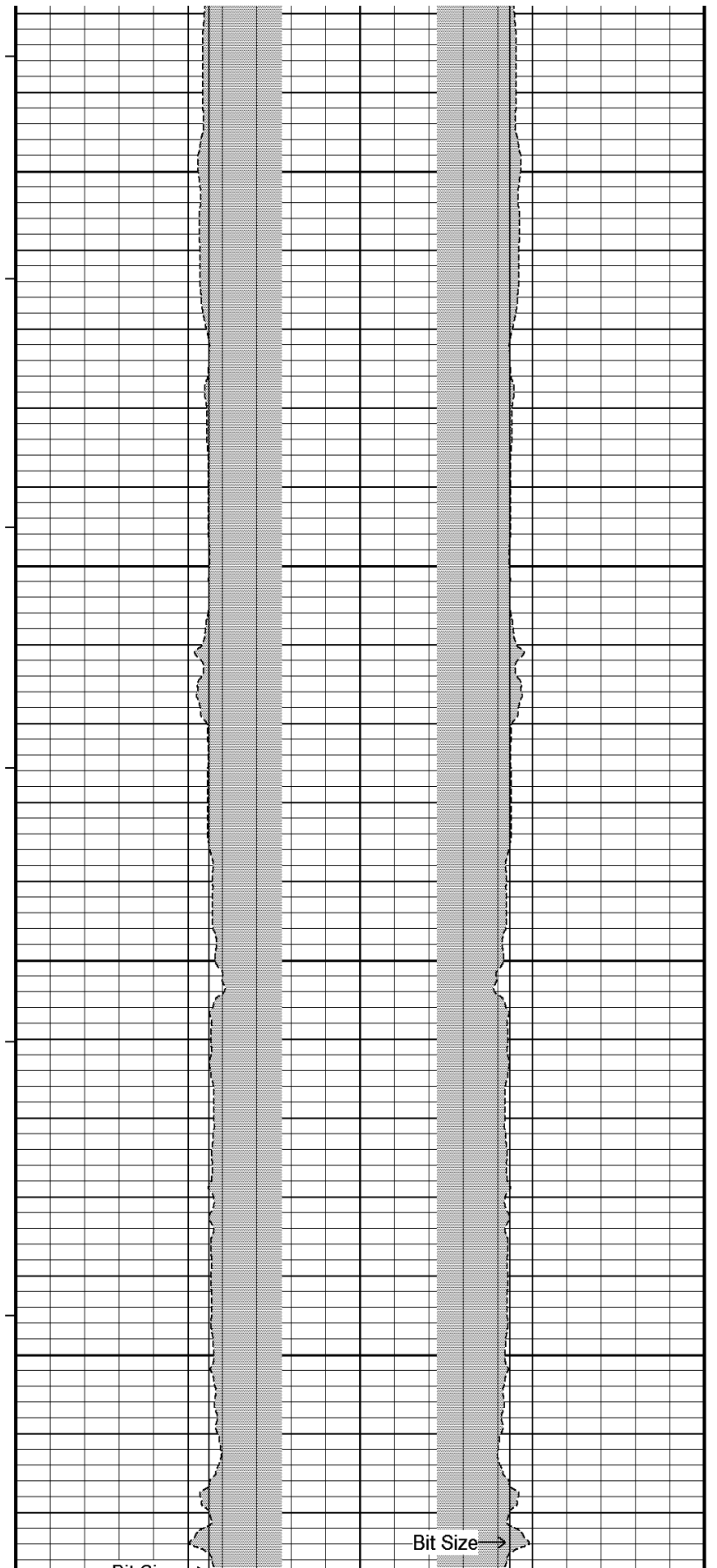
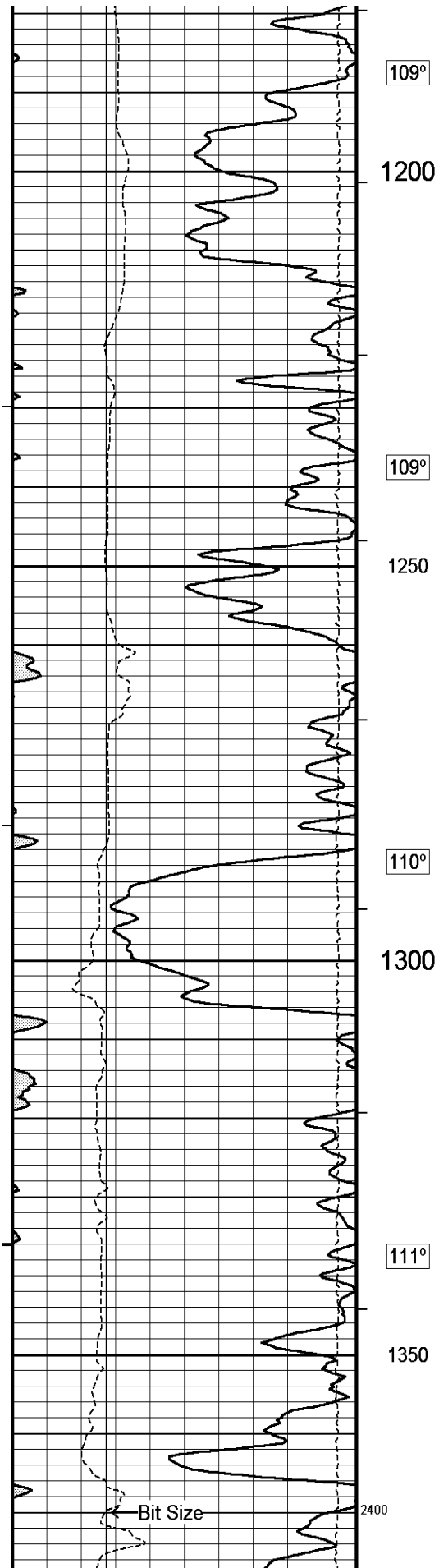
OPERATOR(S): S.KAISER

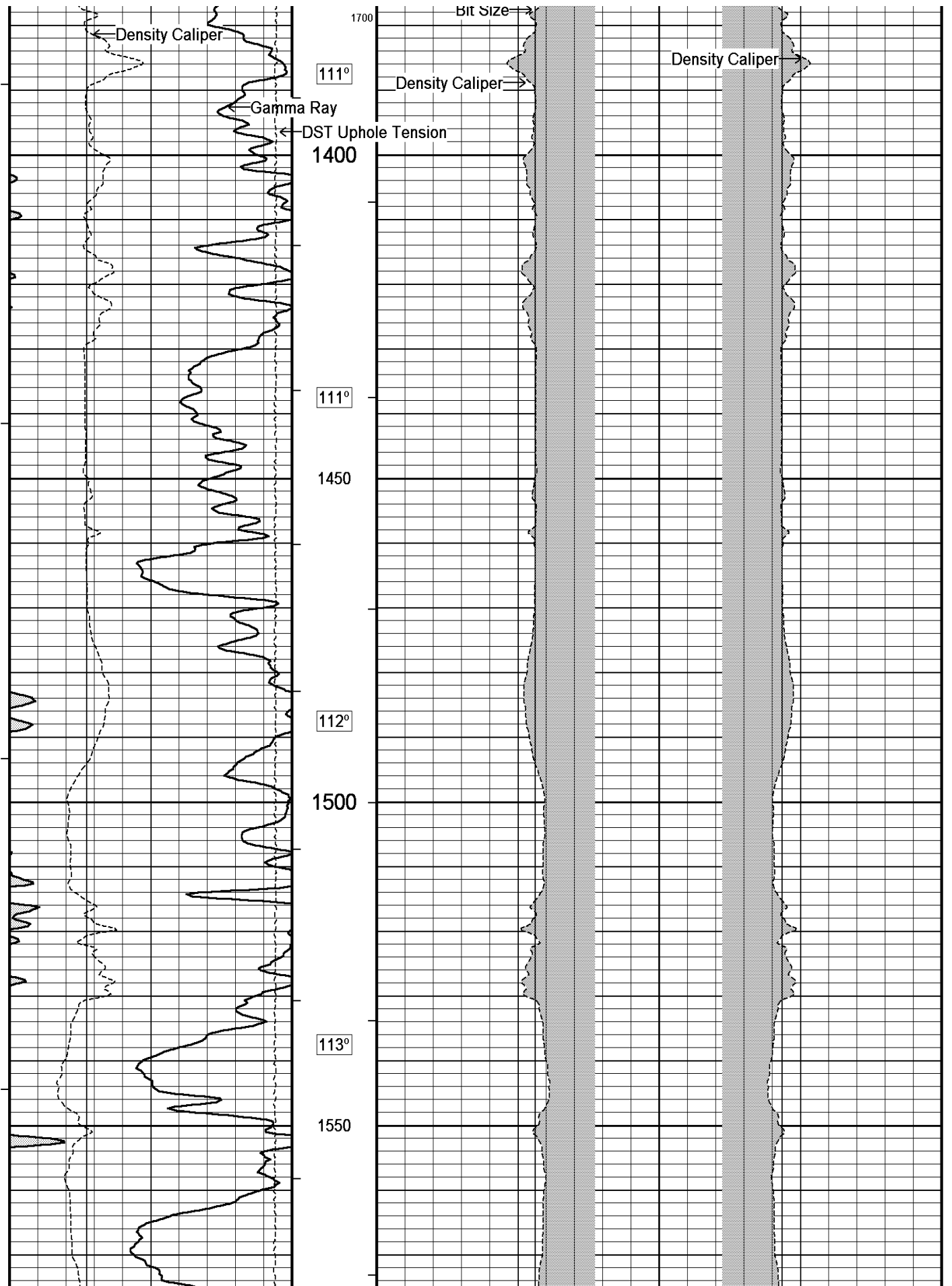
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

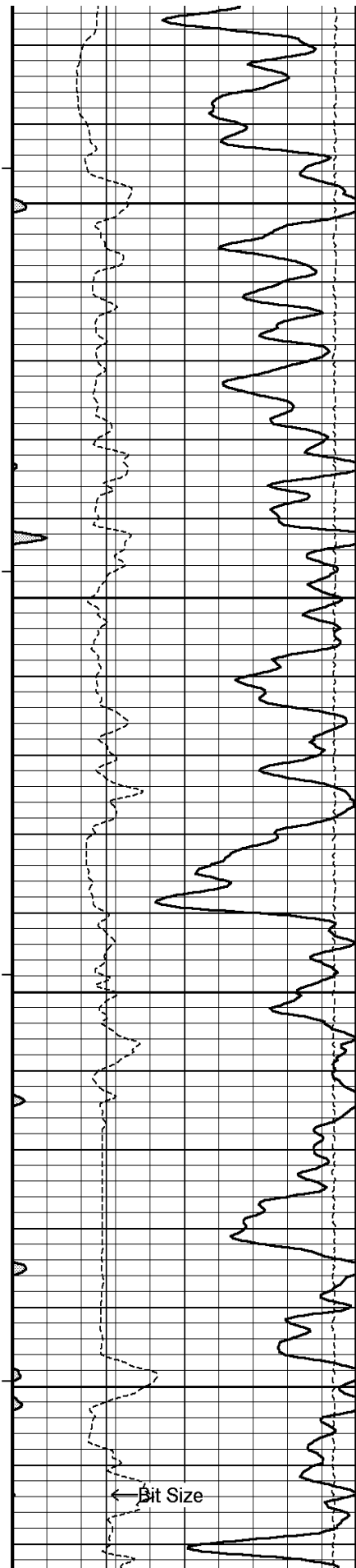












114°

1600

2300

115°

1650

115°

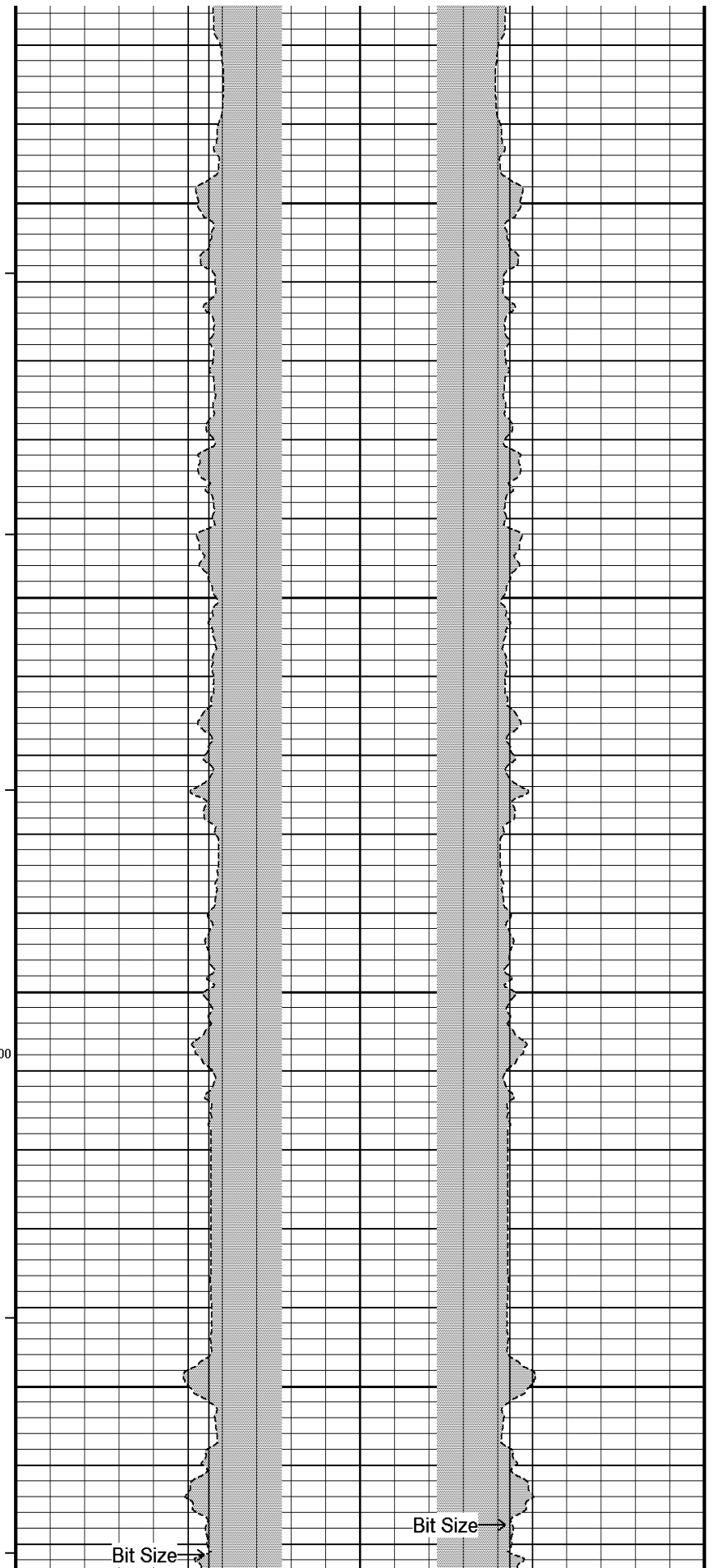
1700

1600

116°

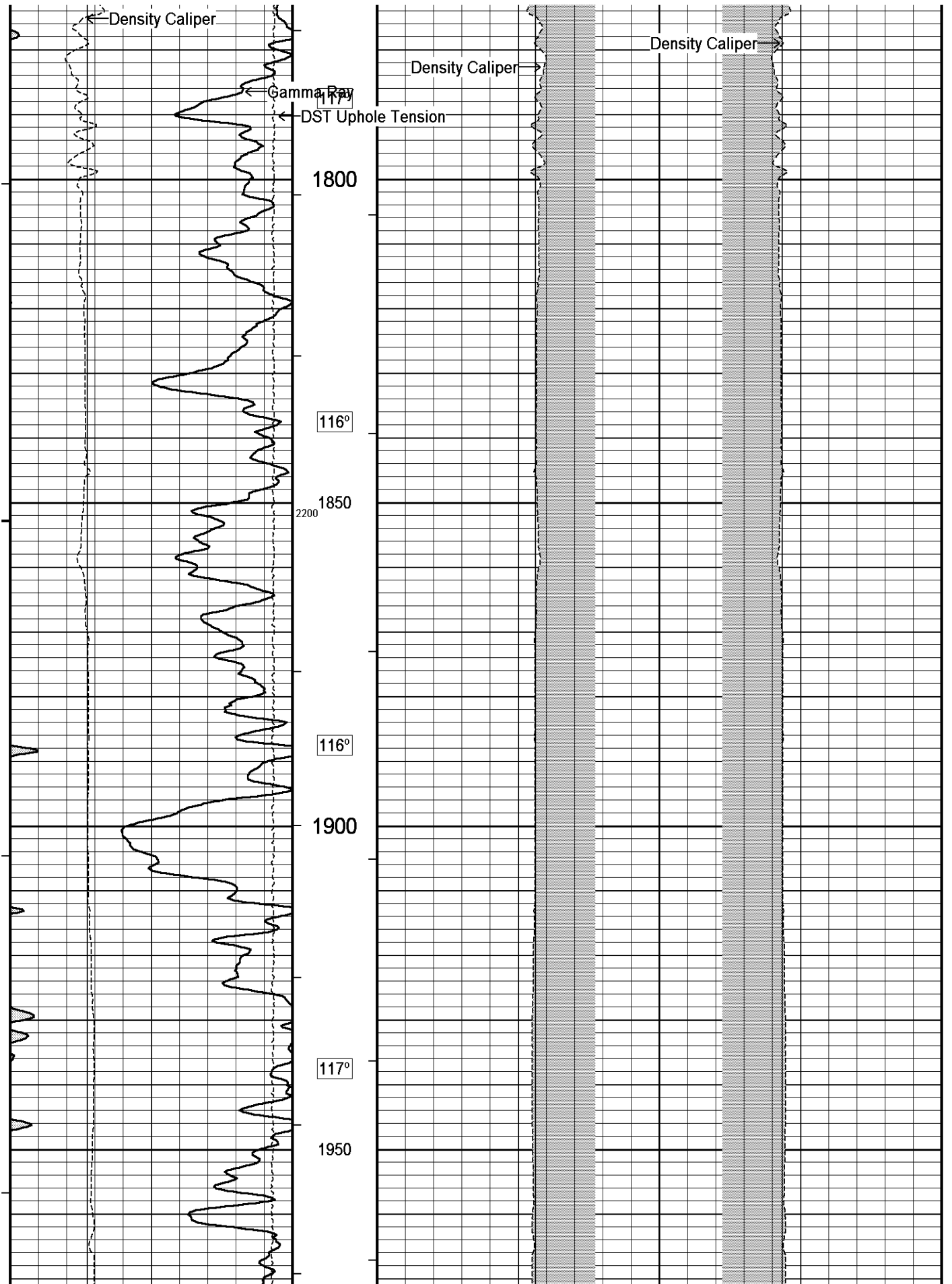
1750

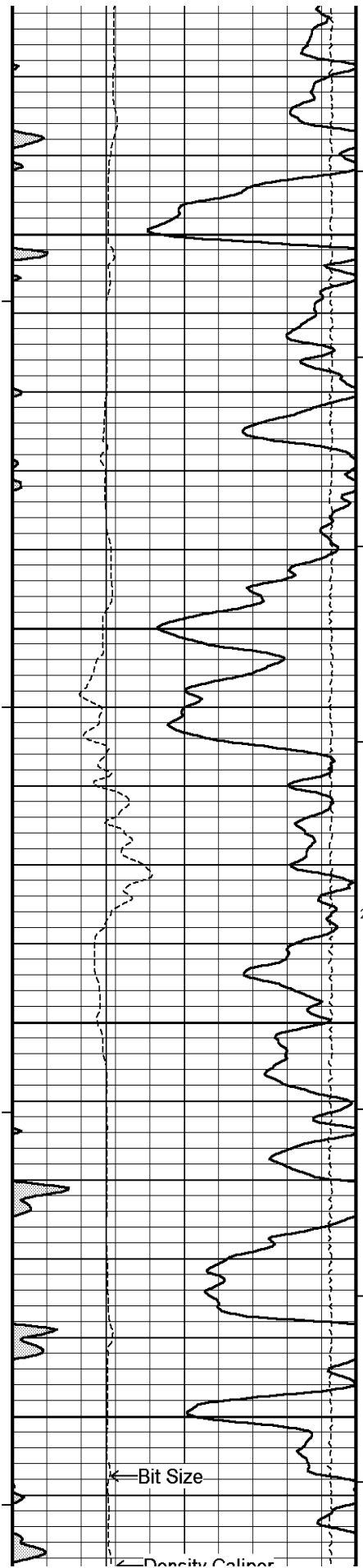
Bit Size ←



Bit Size →

Bit Size →





118°

2000

1500

118°

2050

2100

118°

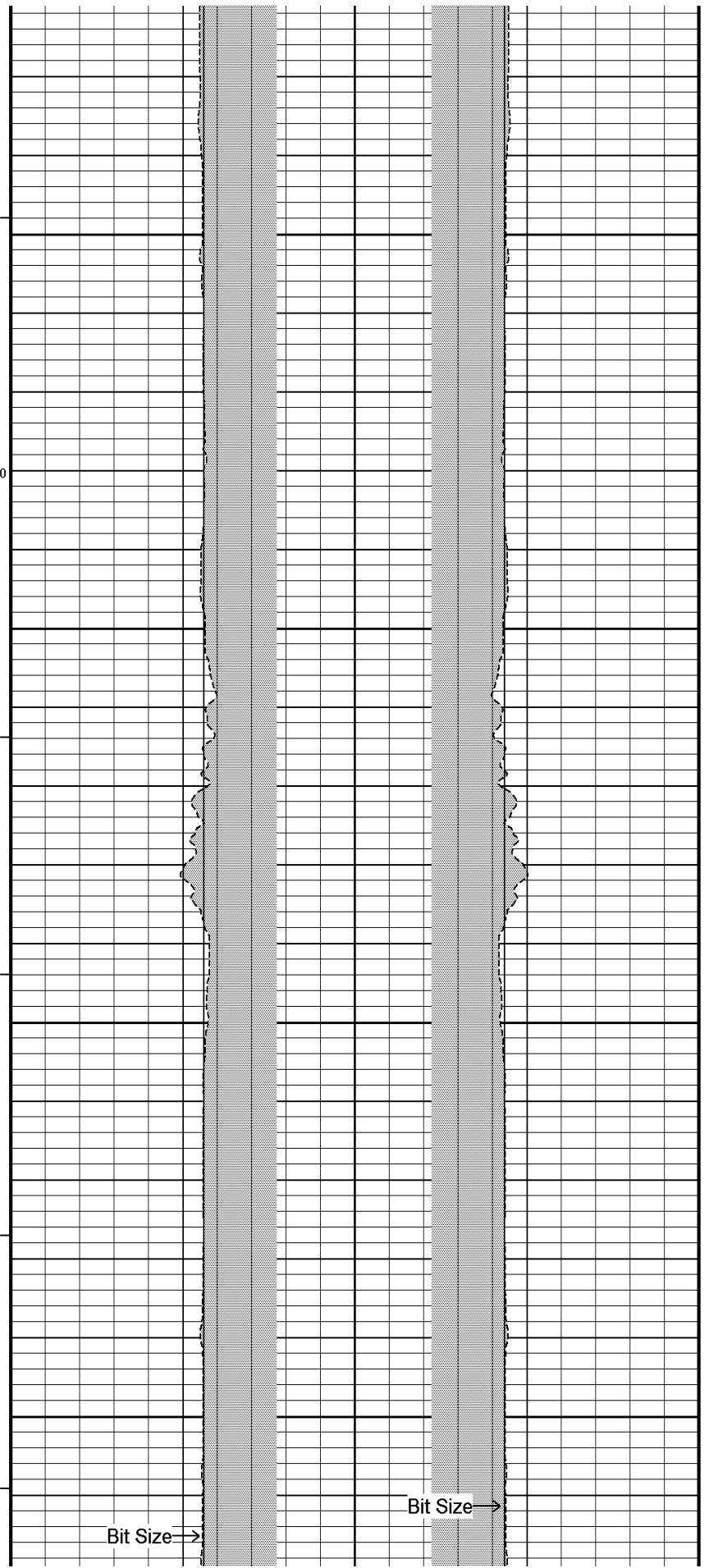
2100

118°

2150

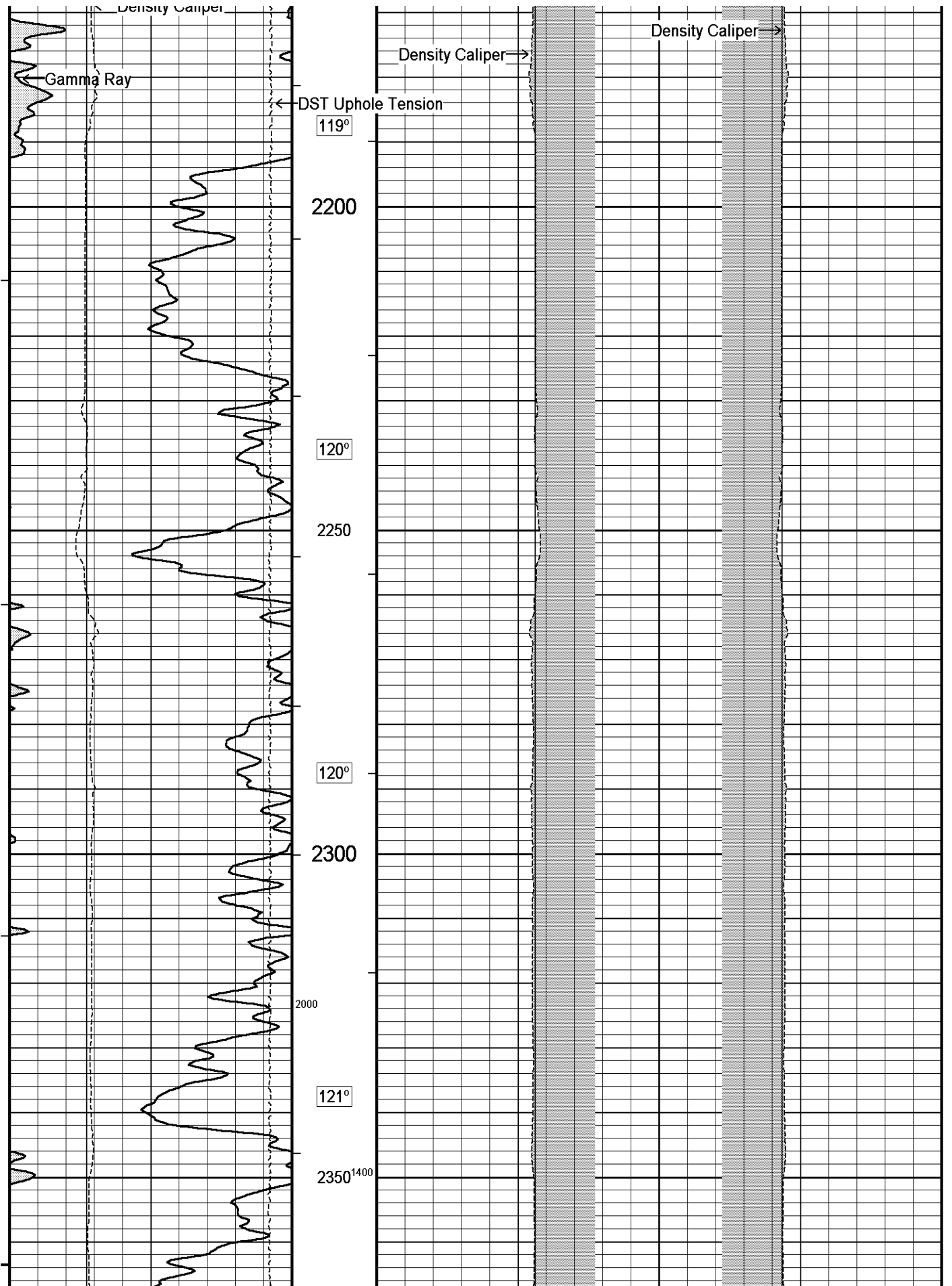
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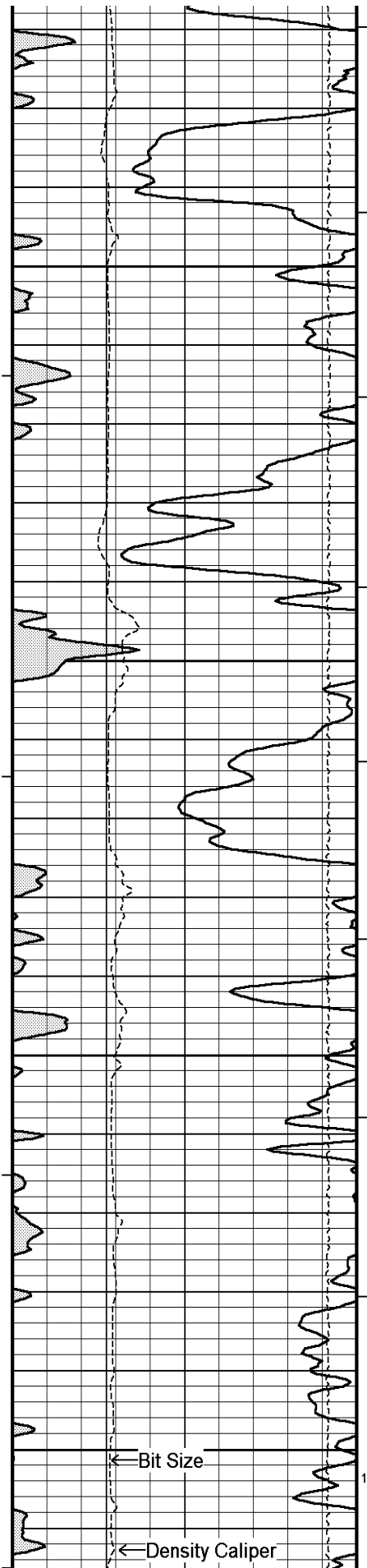
← Density Caliper



Bit Size →

Bit Size →





122°

2400

122°

2450

123°

2500

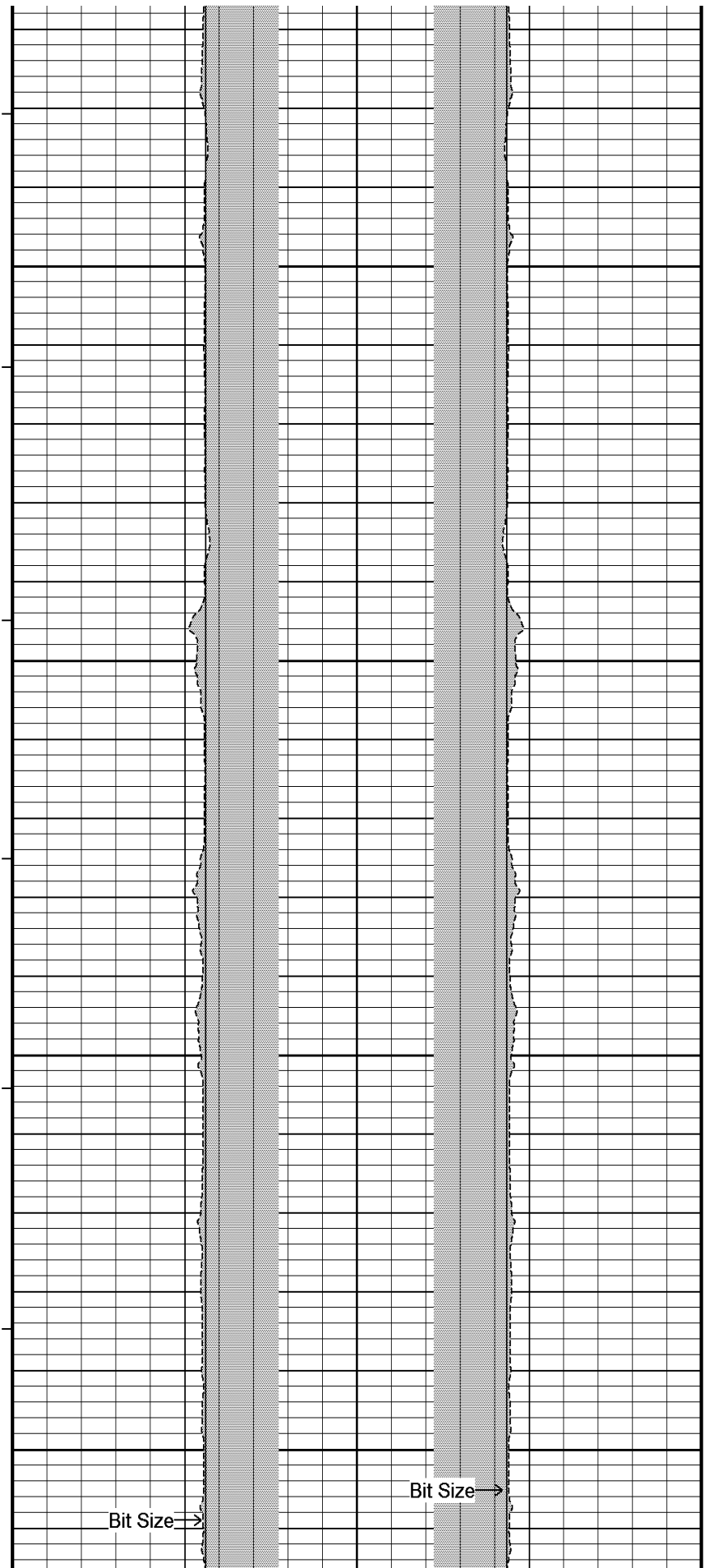
123°

2550

← Bit Size

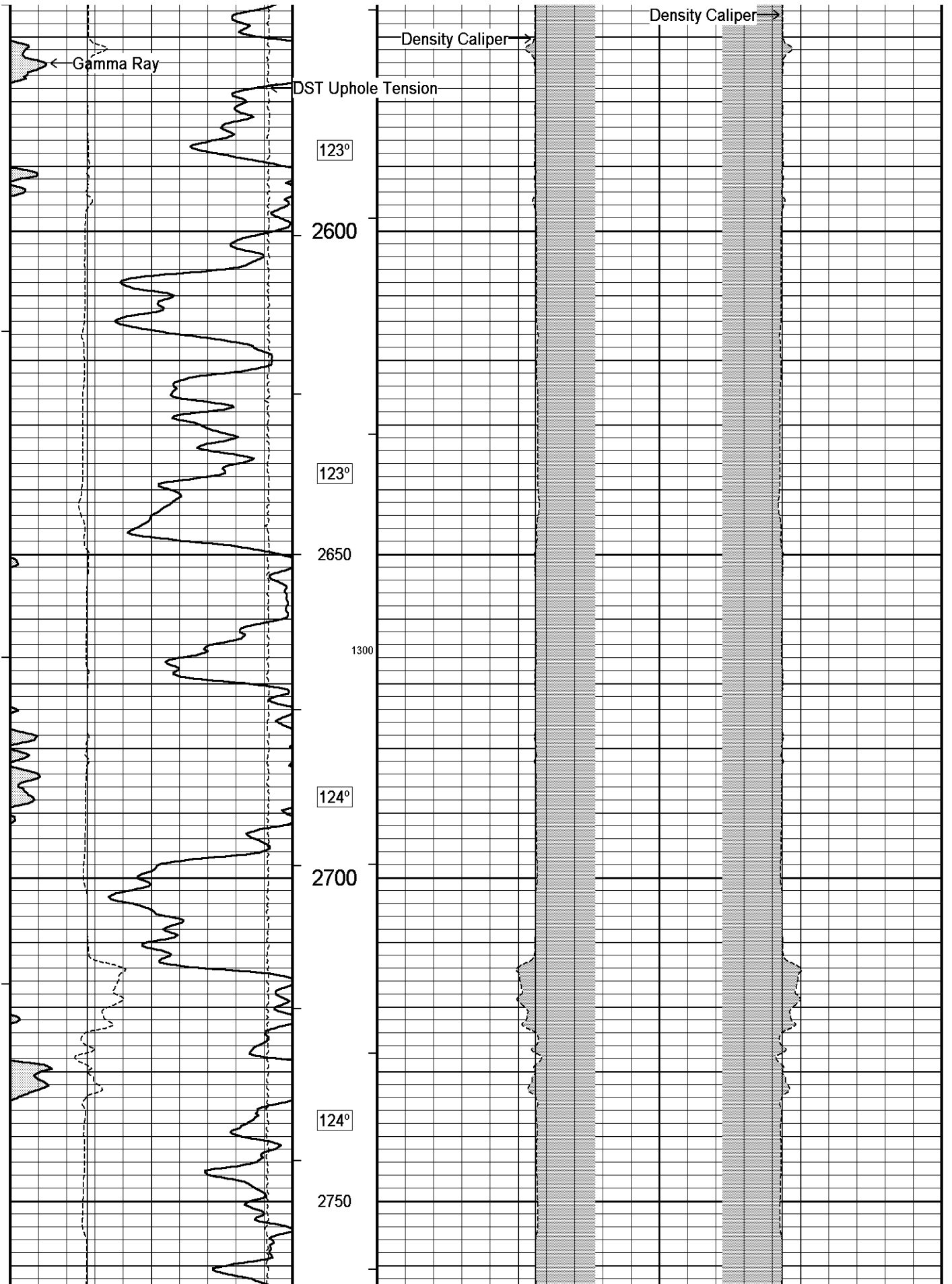
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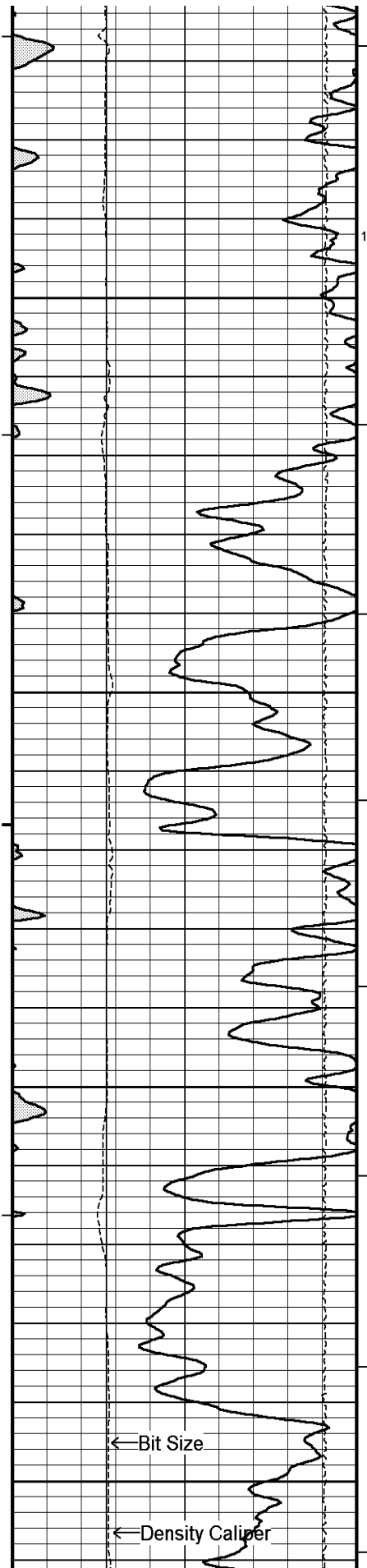
1900



Bit Size →

Bit Size →





125°

1800

2800

125°

2850

126°

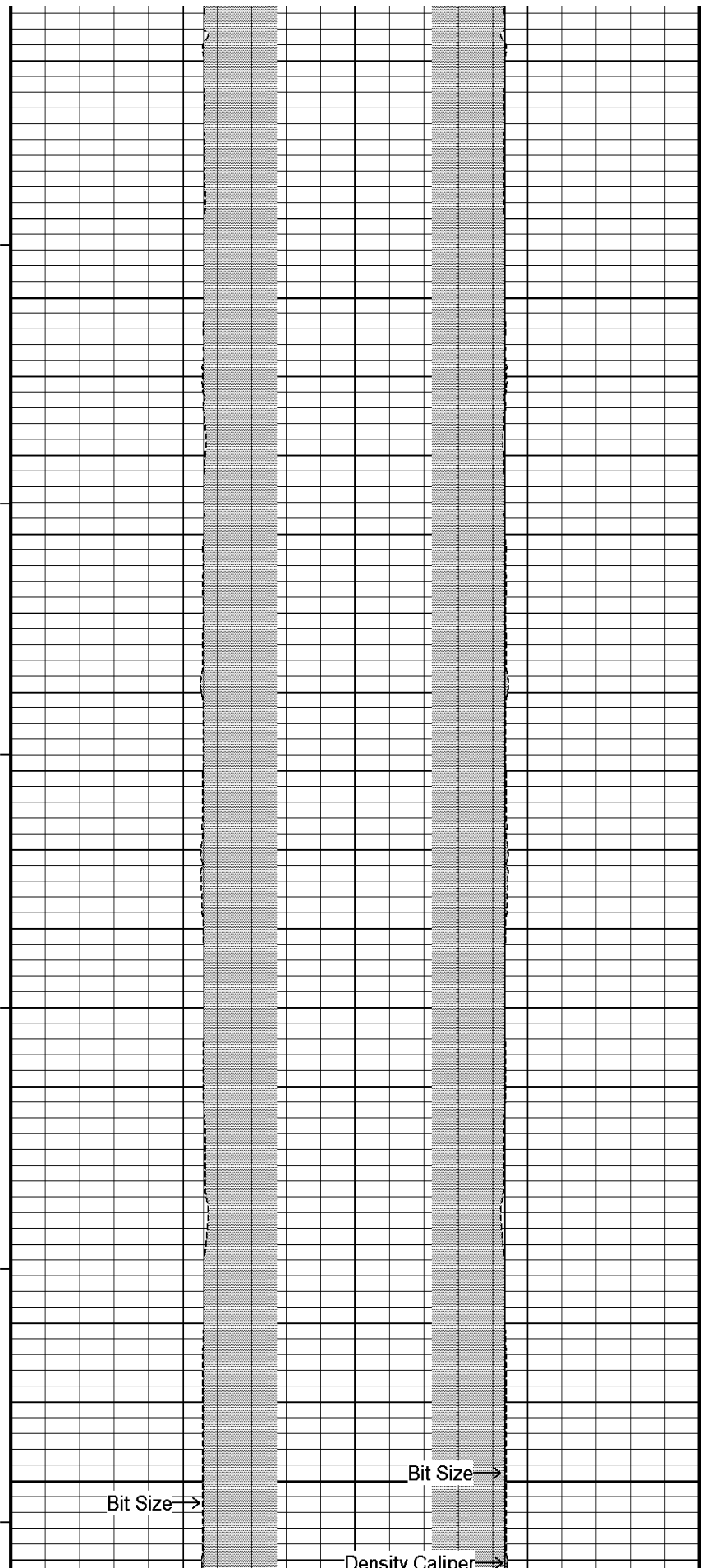
2900

127°

2950

← Bit Size

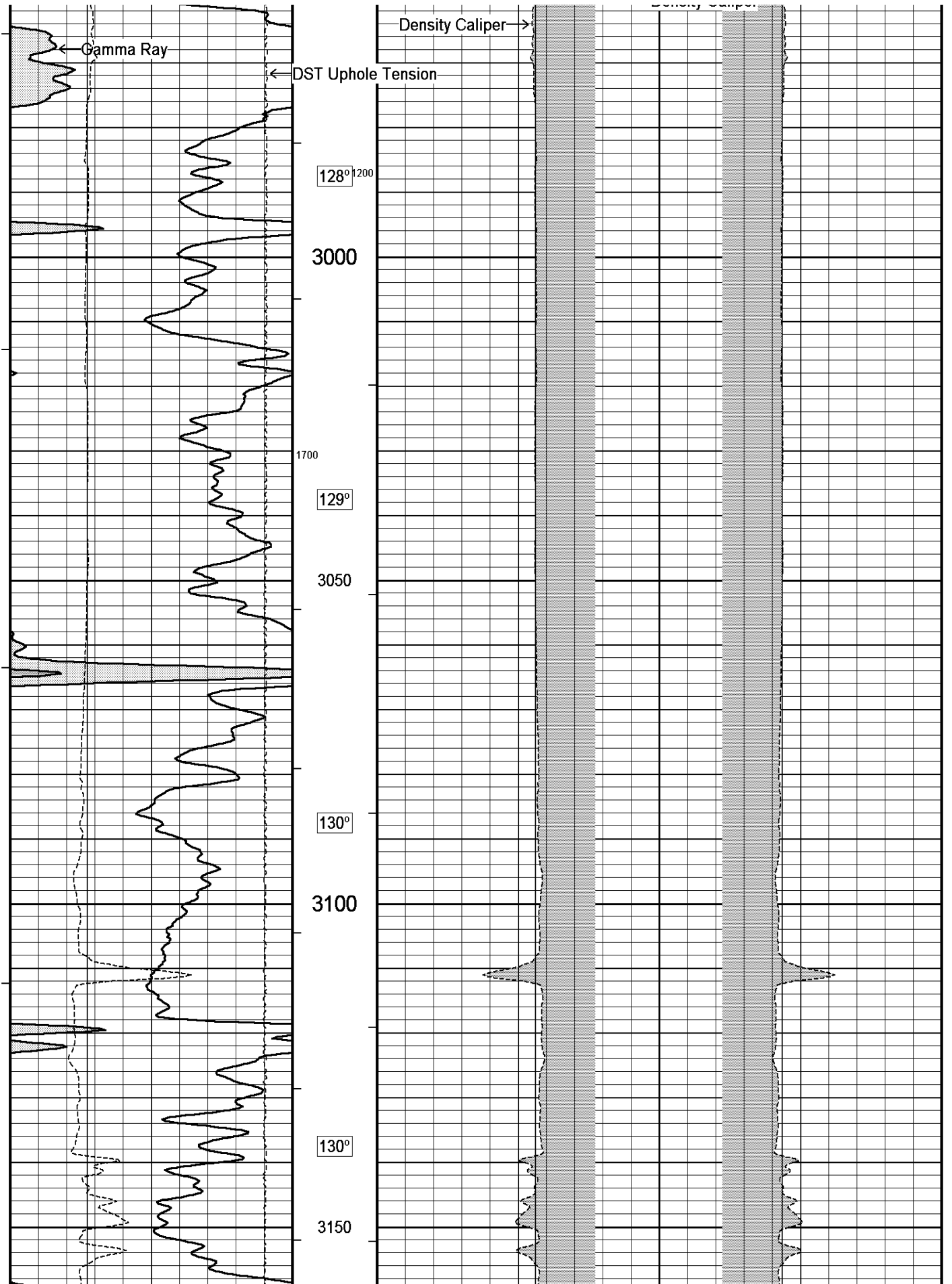
← Density Caliper

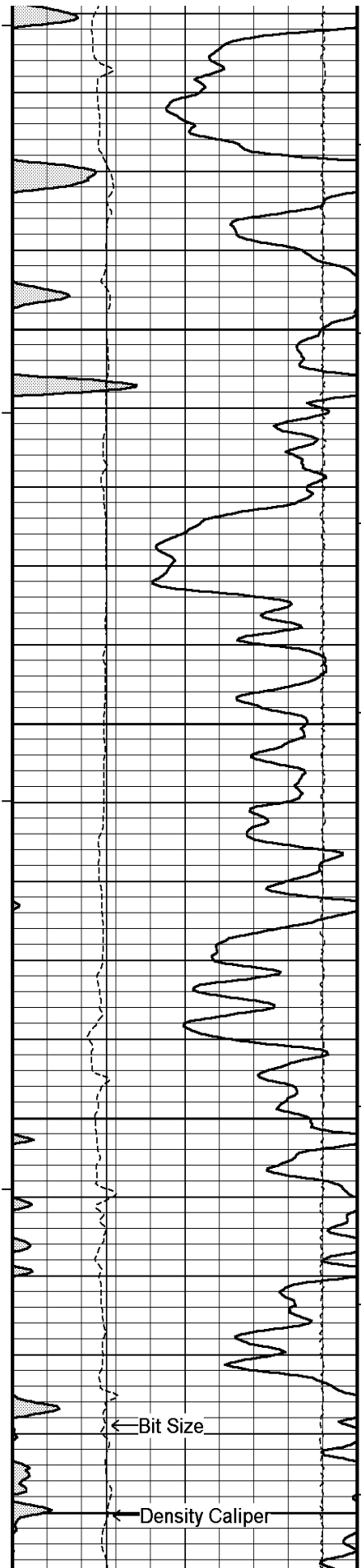


Bit Size →

Density Caliper →

Bit Size →





130°

3200

131°

3250

1600

132°

3300

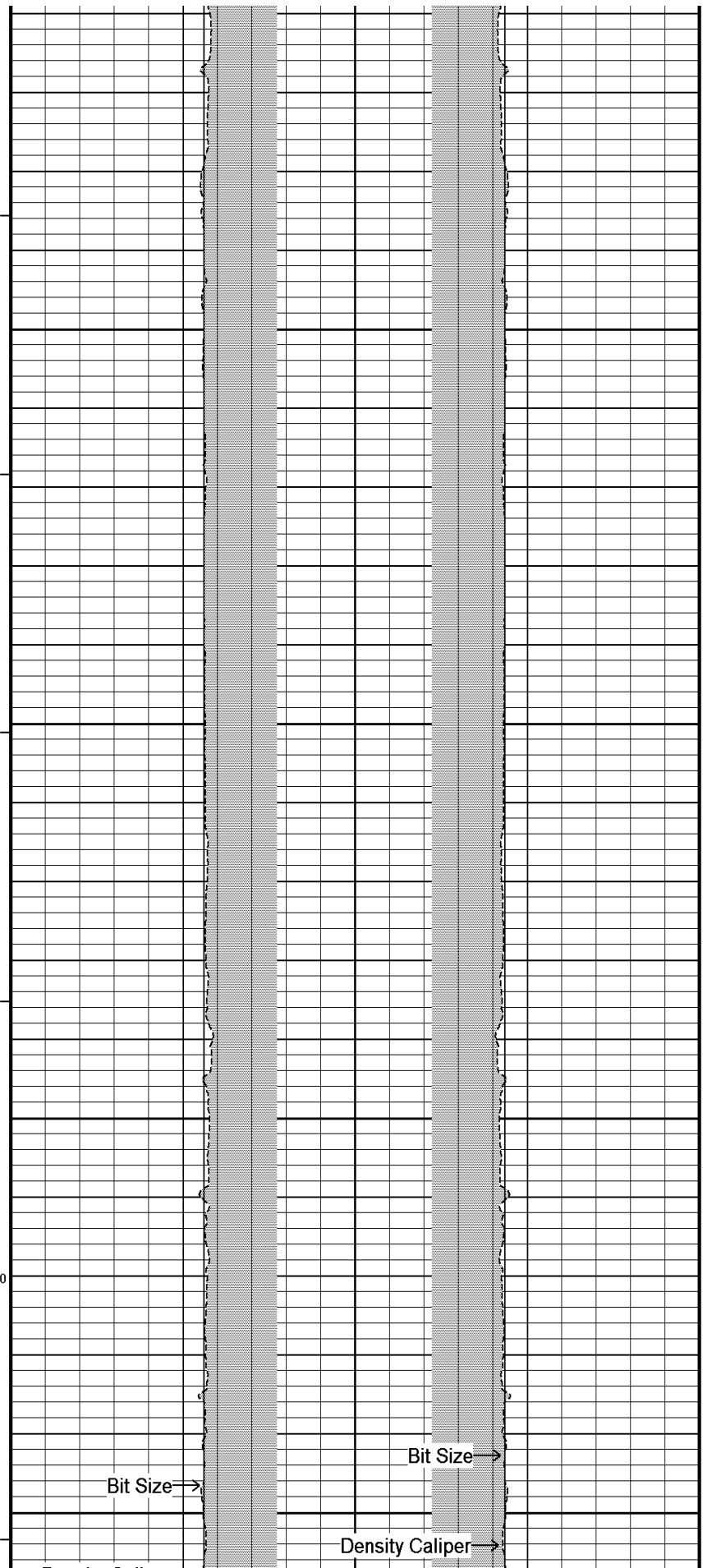
1100

132°

3350

← Bit Size

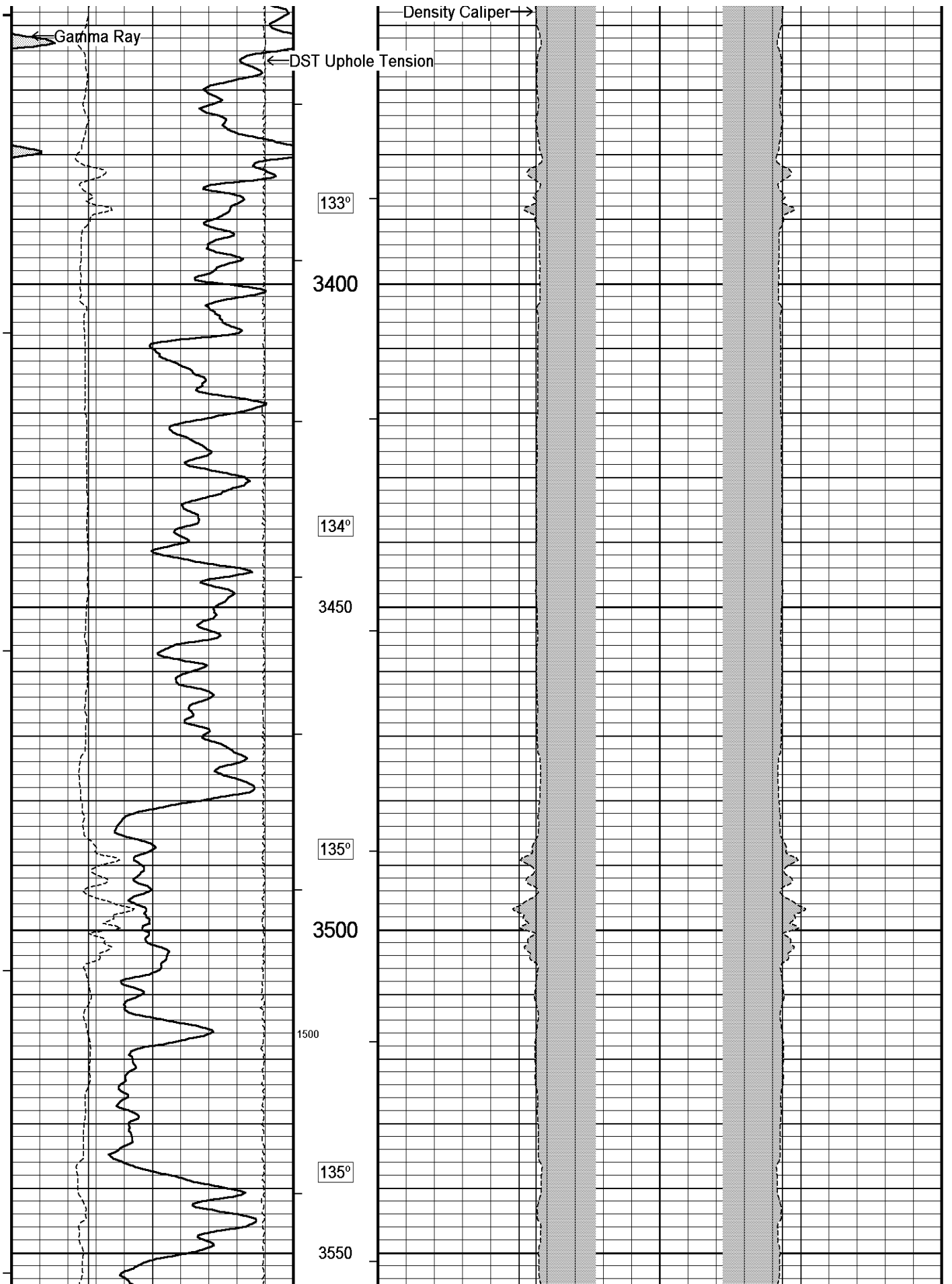
← Density Caliper

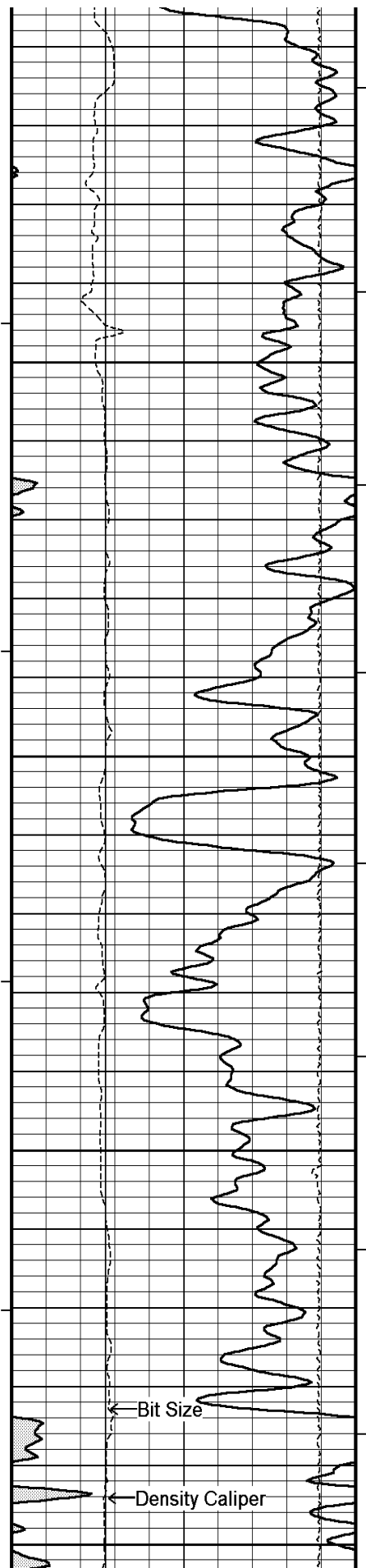


Bit Size →

Density Caliper →

Bit Size →





136°

3600

136°

3650

1000

136°

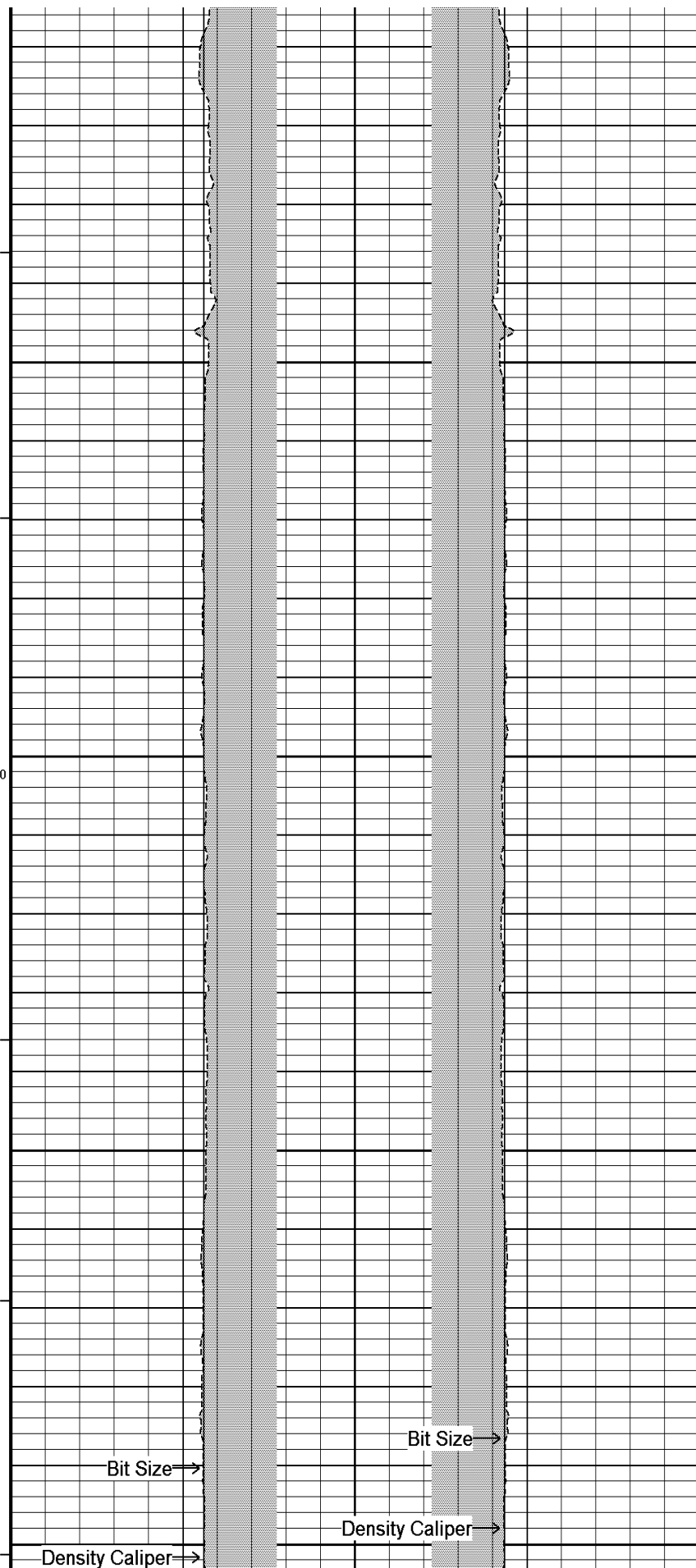
3700

136°

3750

← Bit Size

← Density Caliper

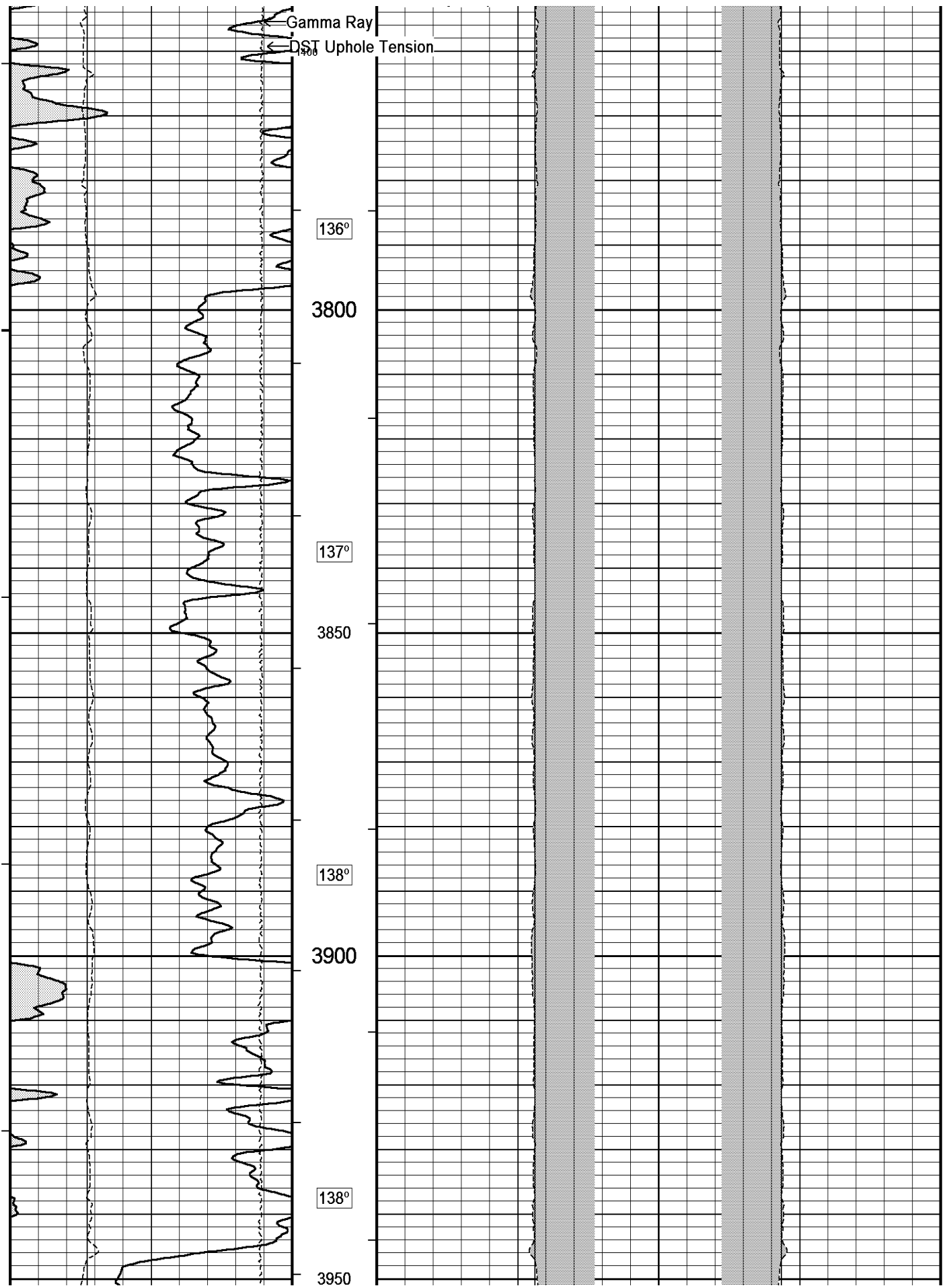


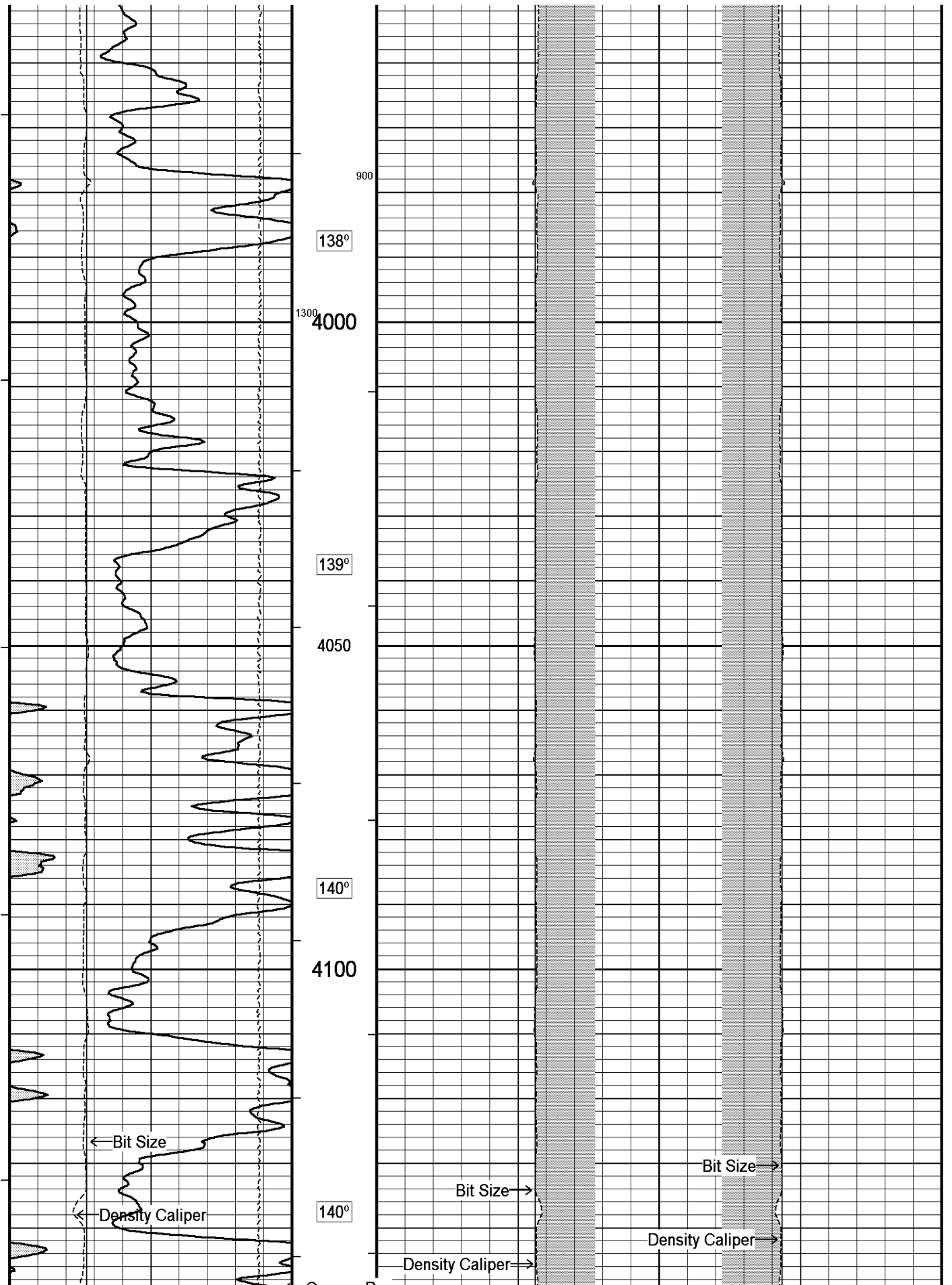
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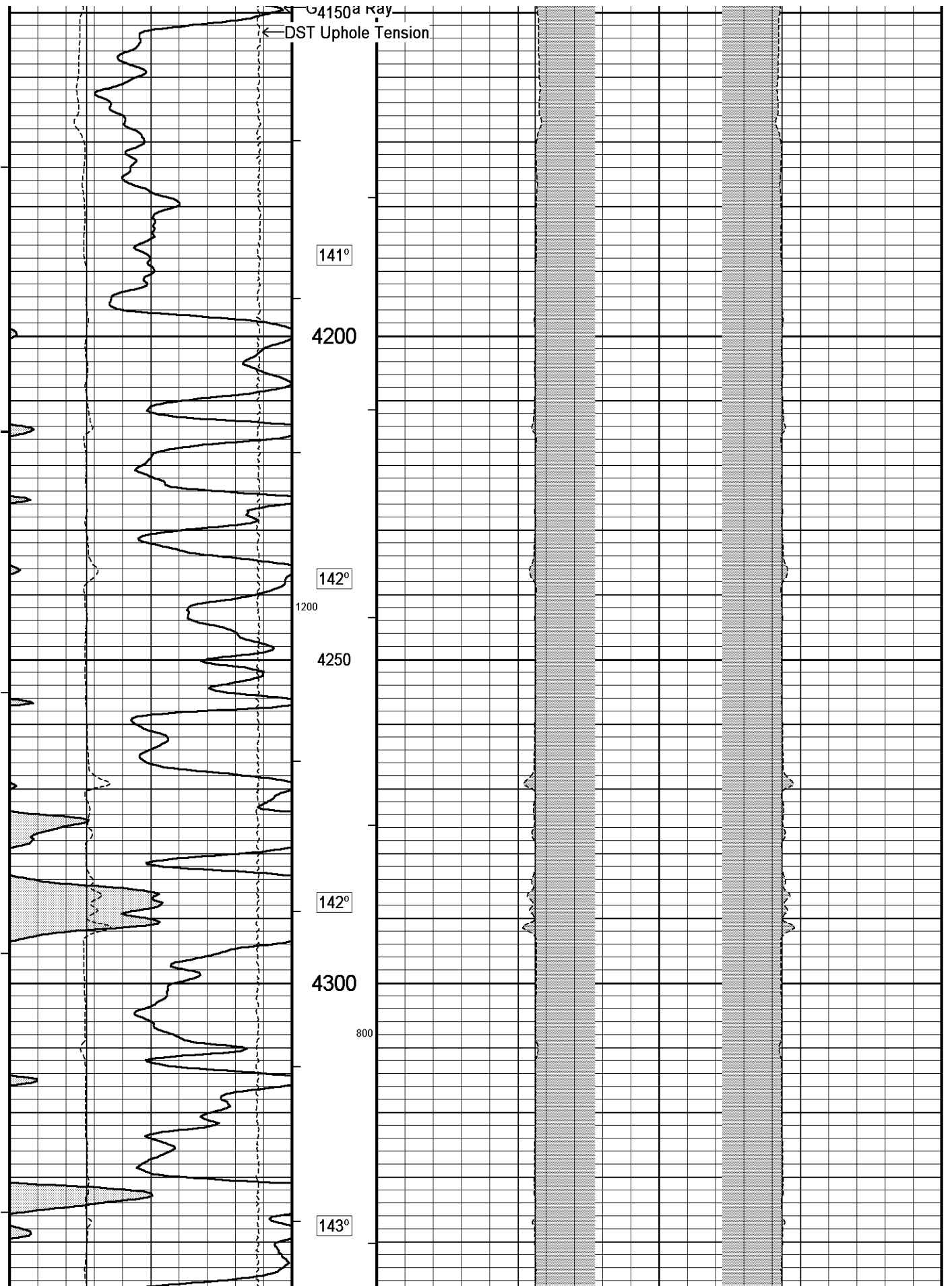
Density Caliper →

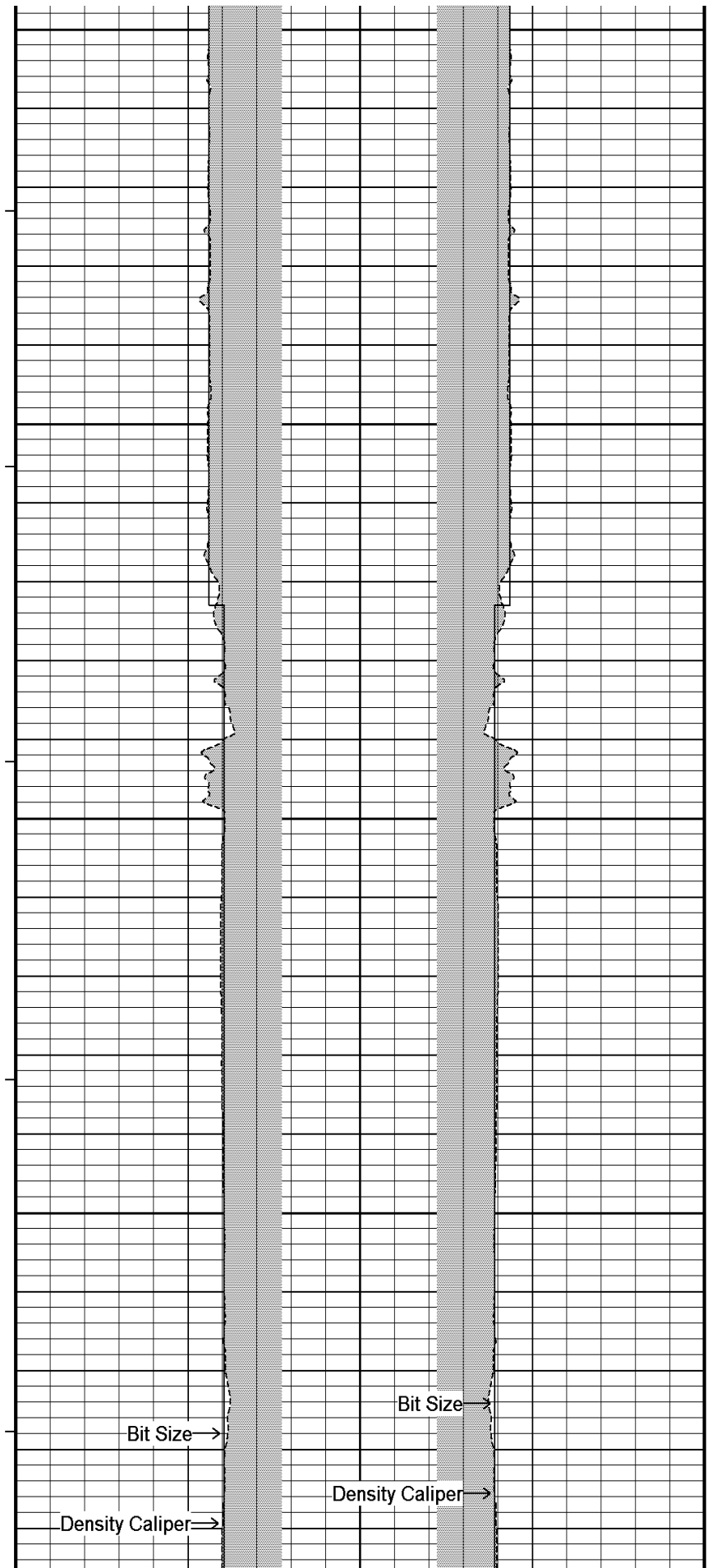
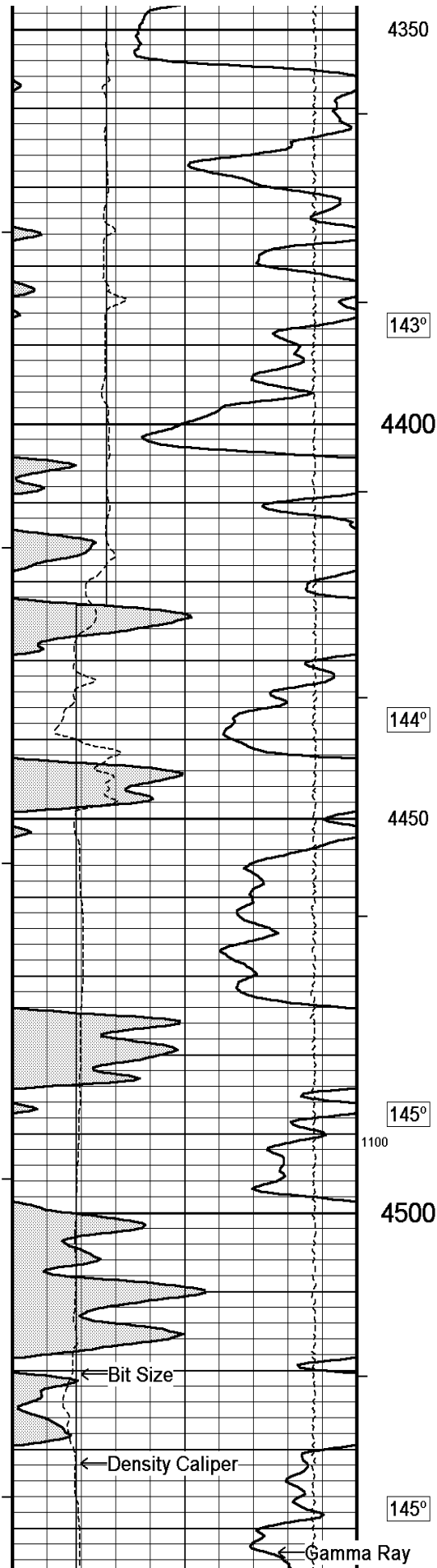
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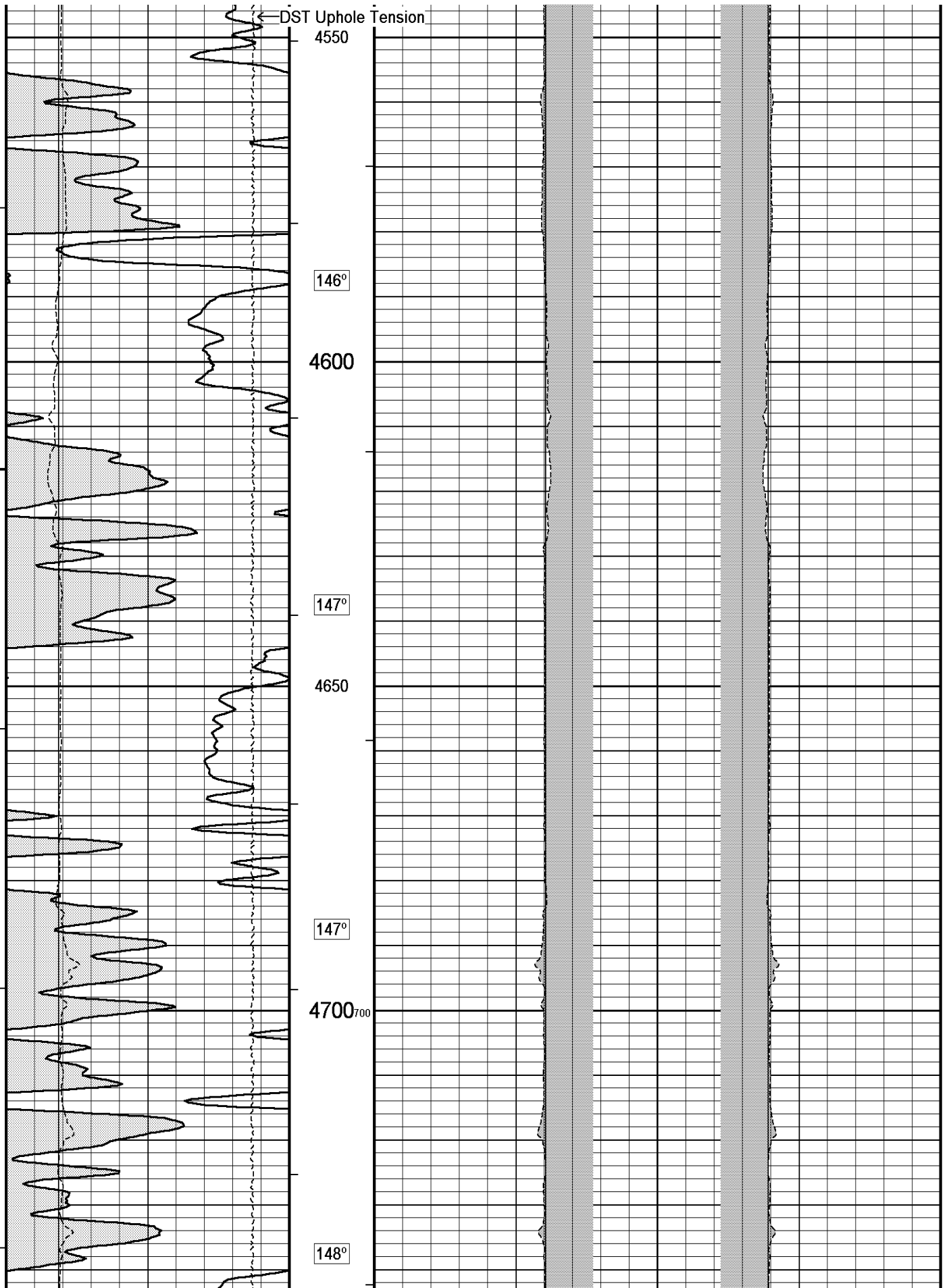
Density Caliper →

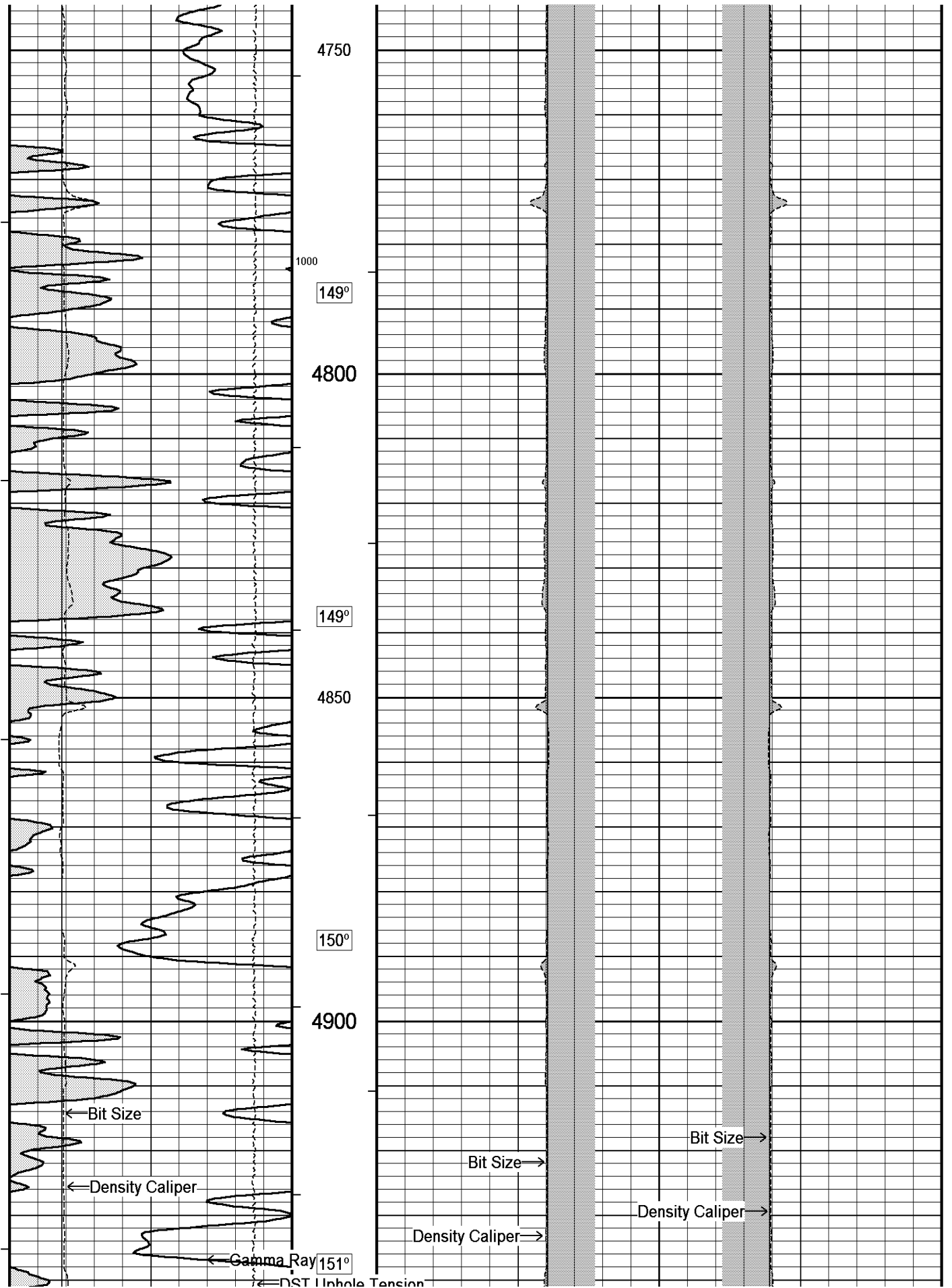




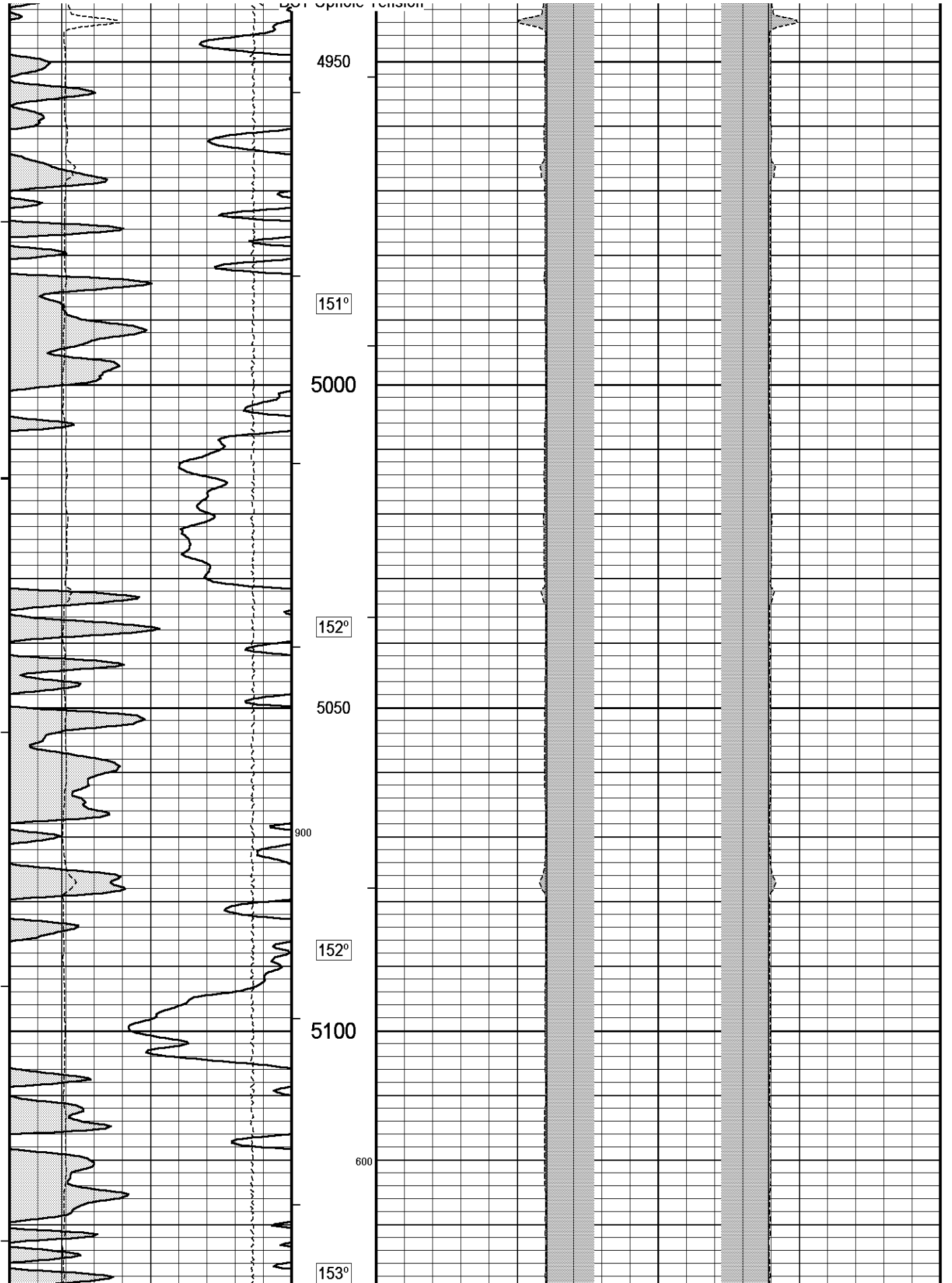


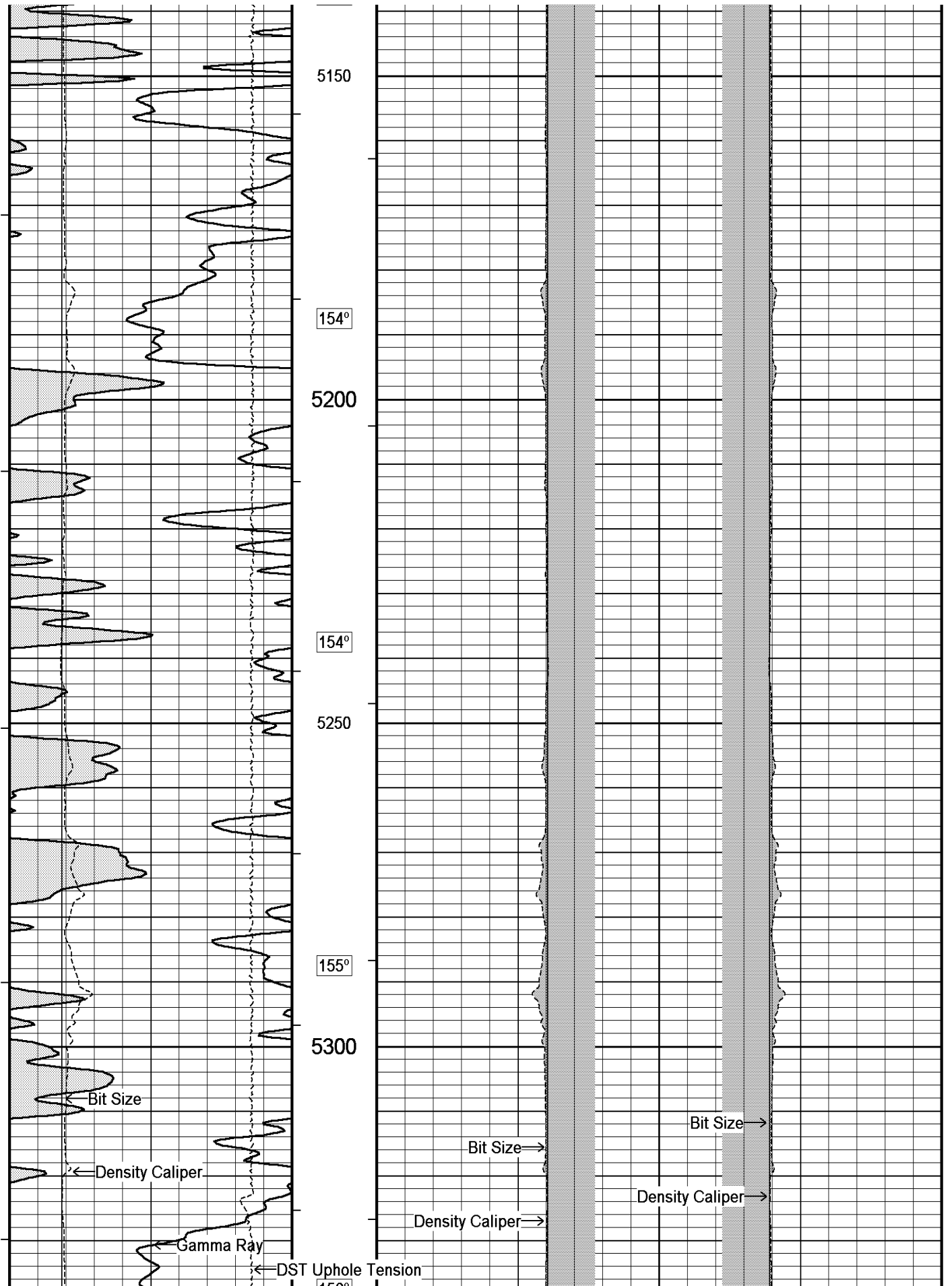


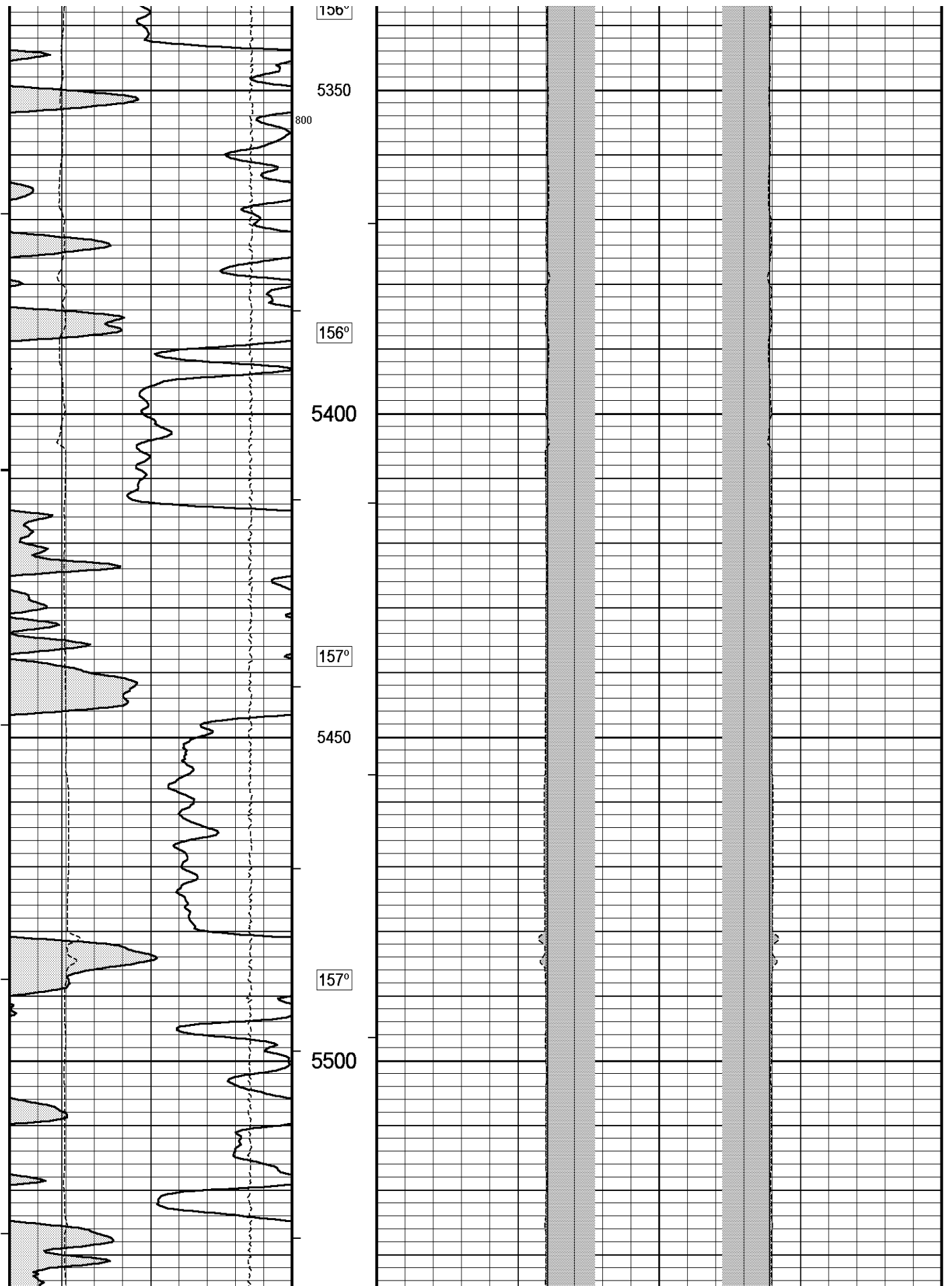


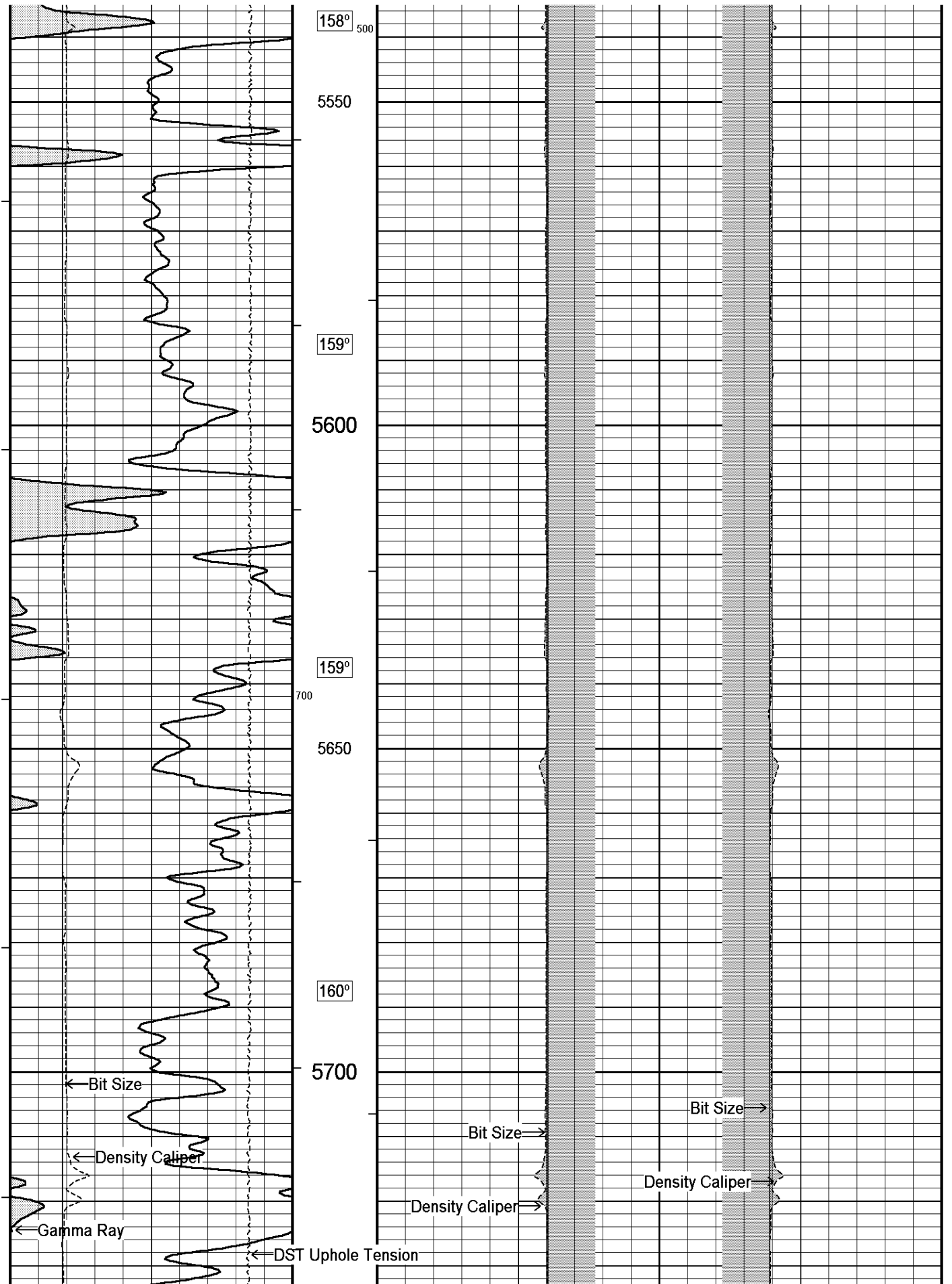


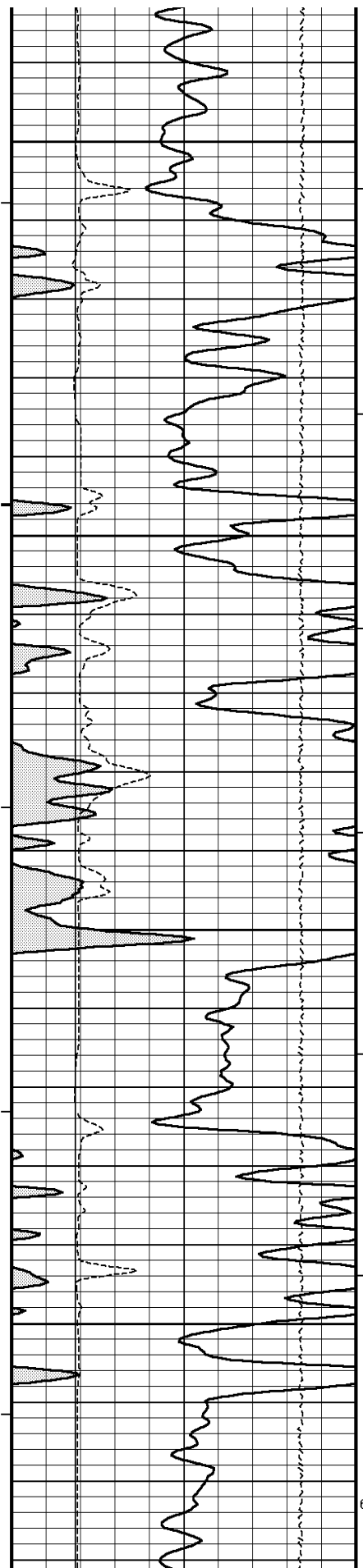
501 Optic tension











160°

5750

161°

5800

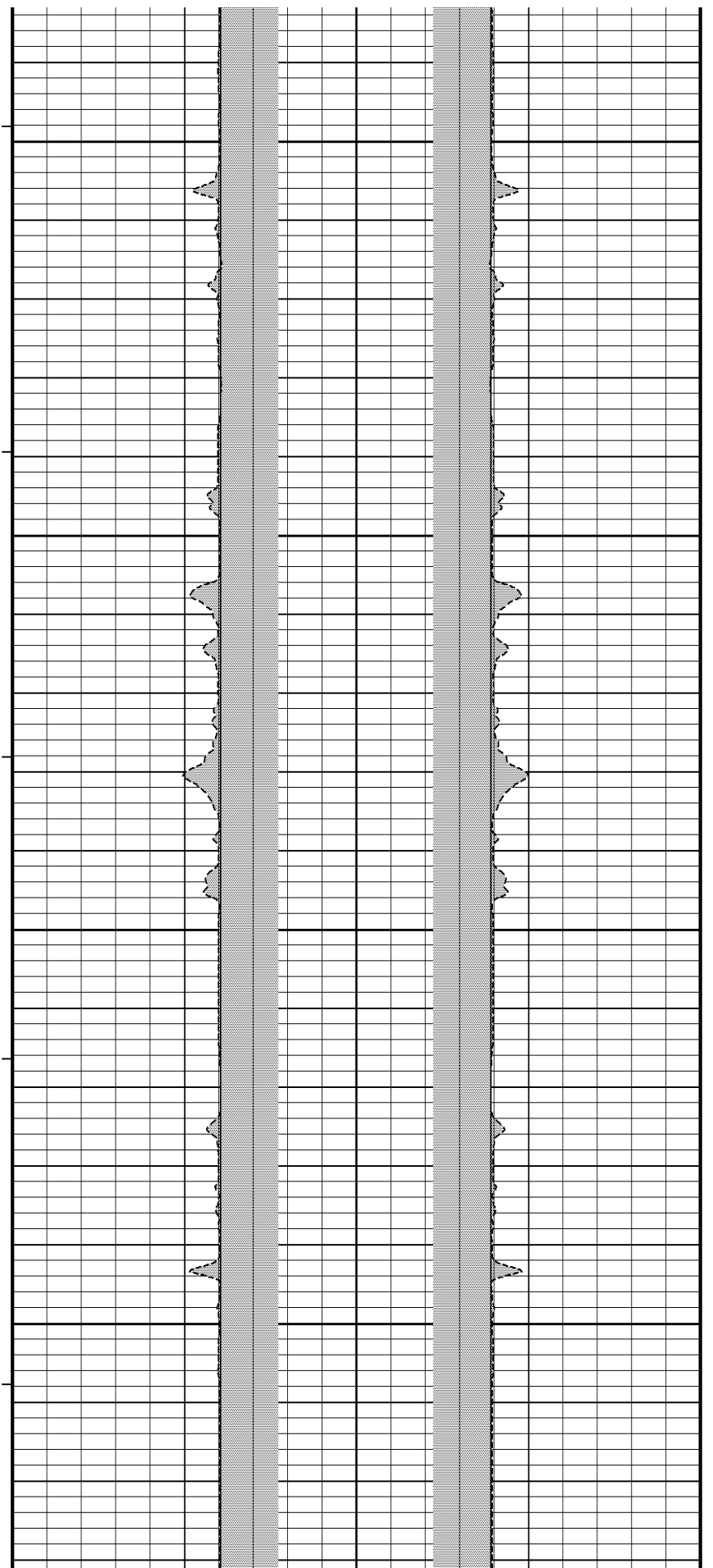
162°

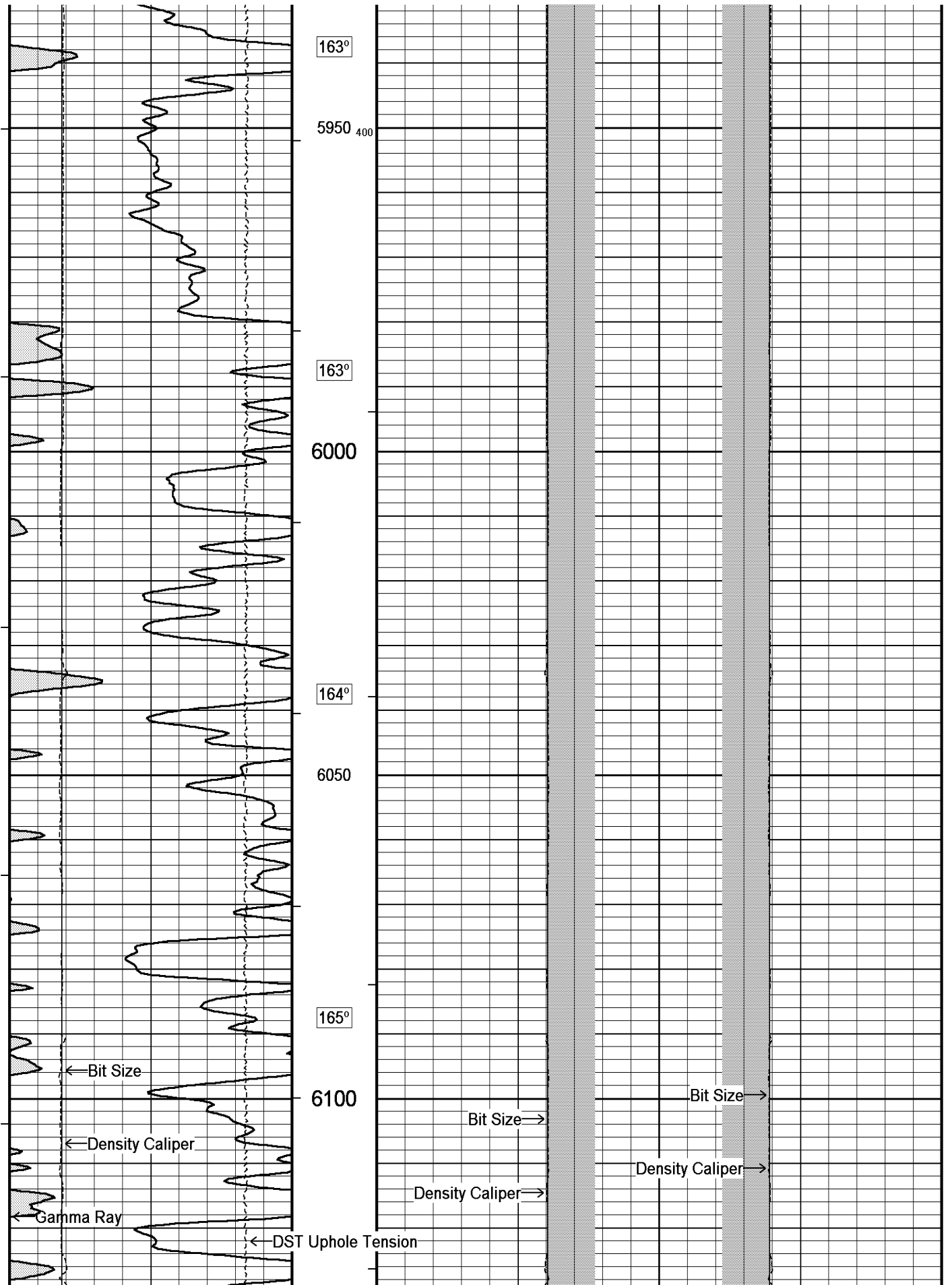
5850

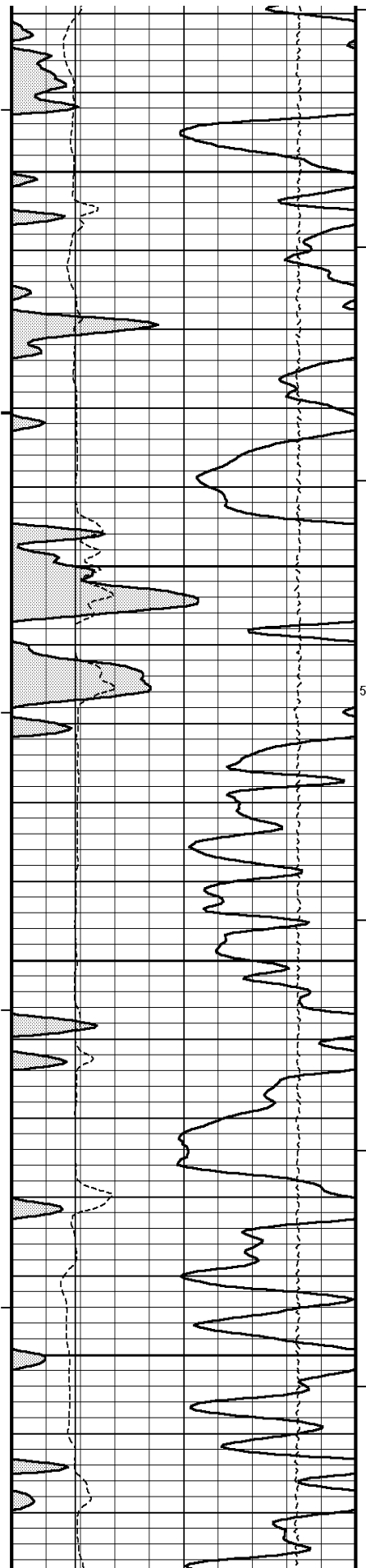
162°

5900

600







165°

6150

166°

6200

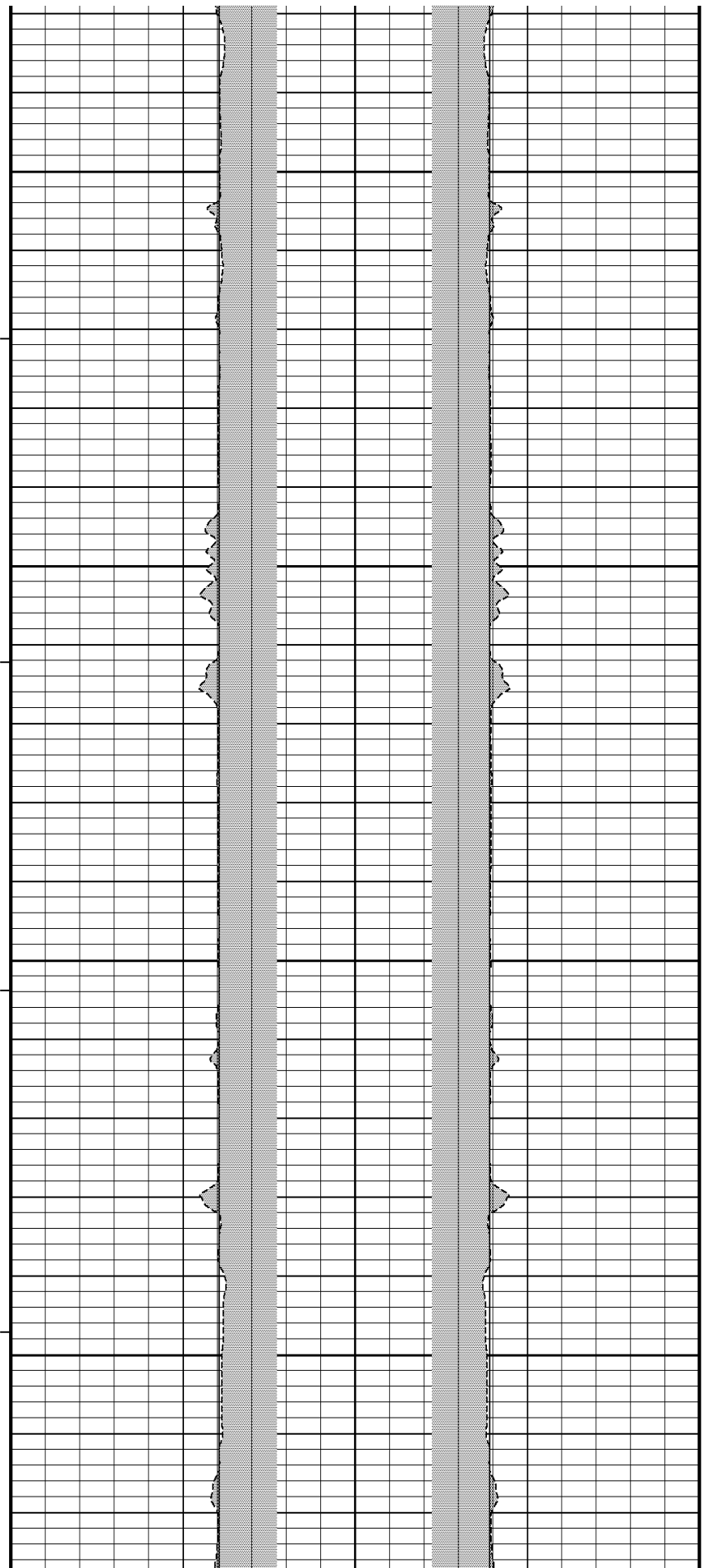
500

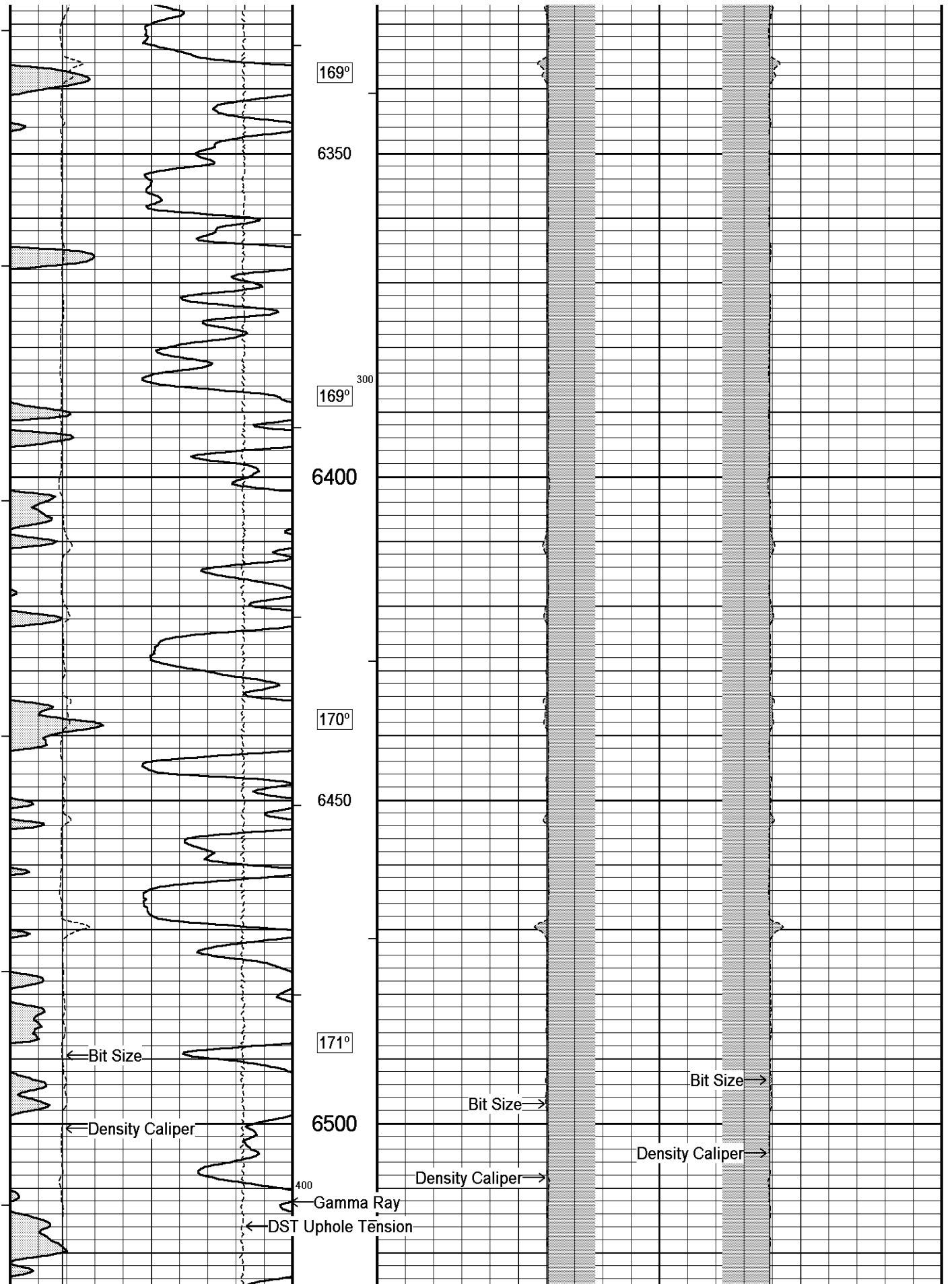
166°

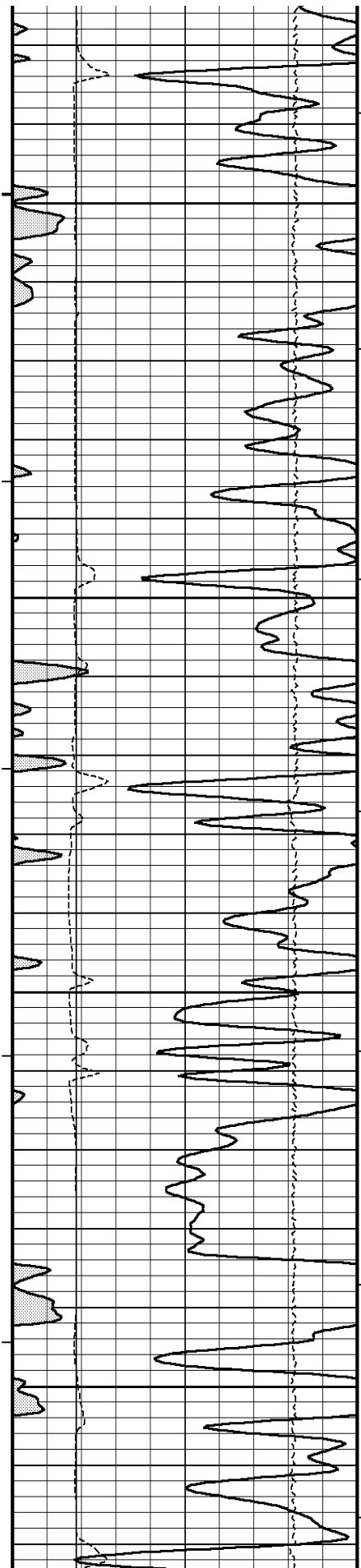
6250

168°

6300







172°

6550

173°

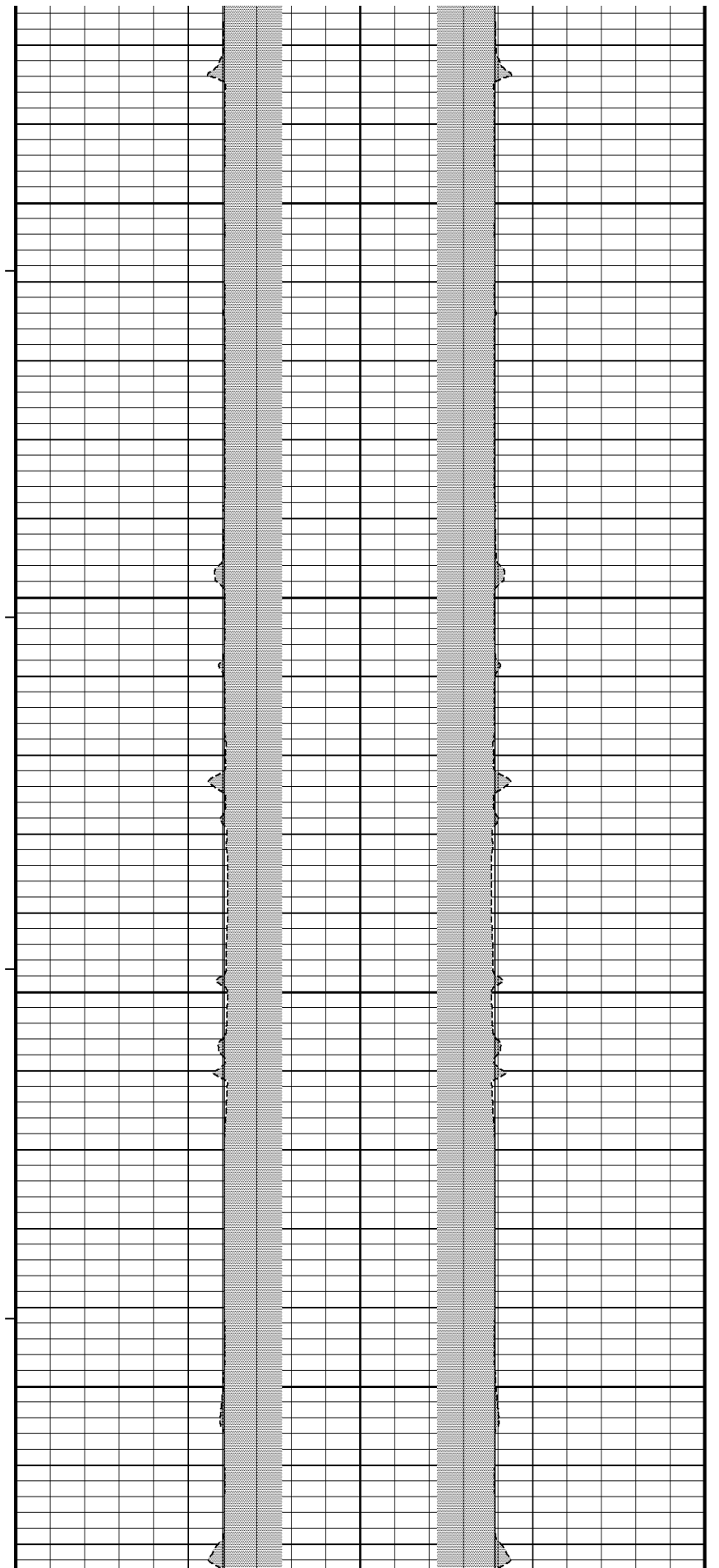
6600

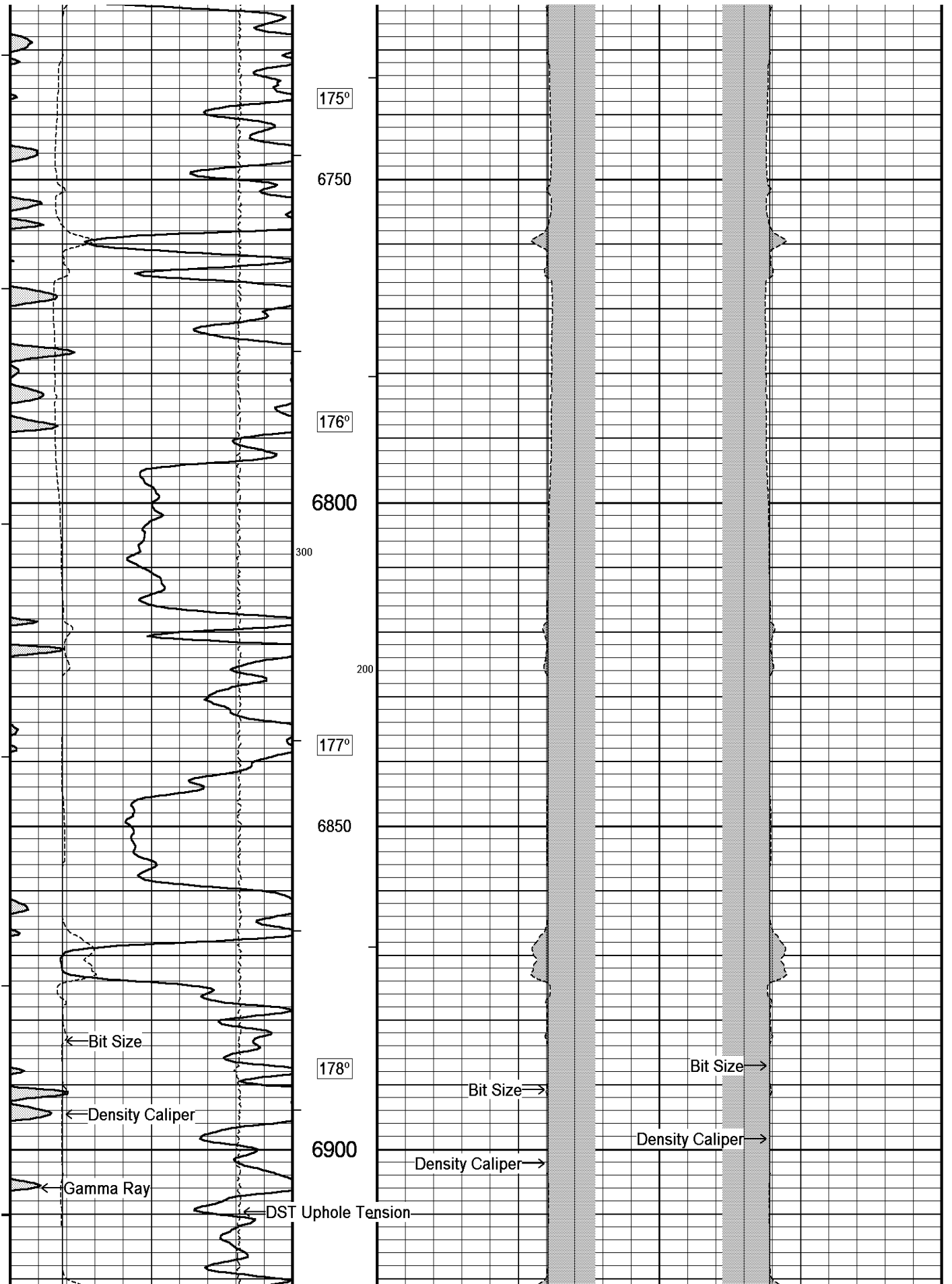
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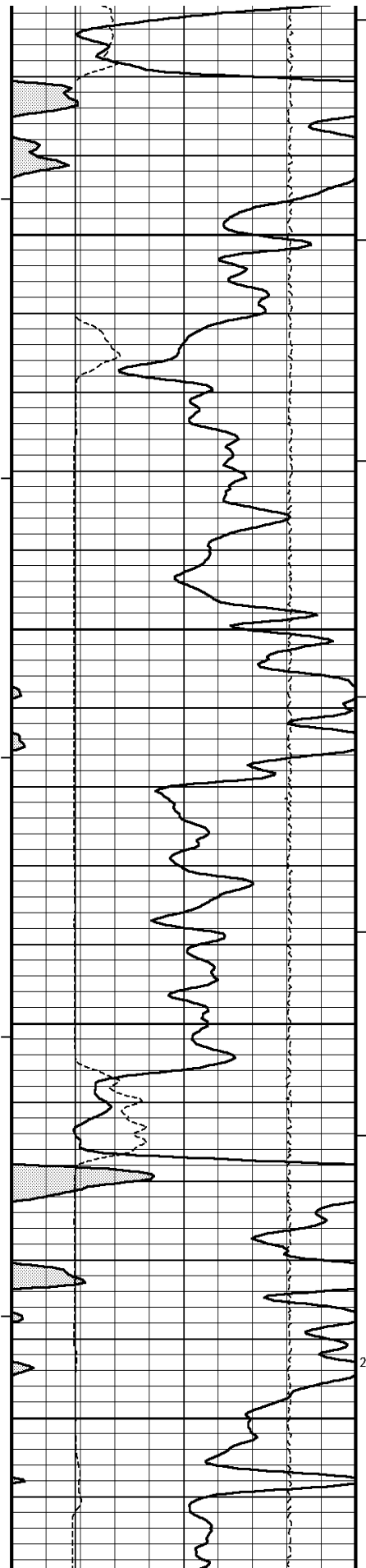
6650

174°

6700







180°

6950

181°

7000

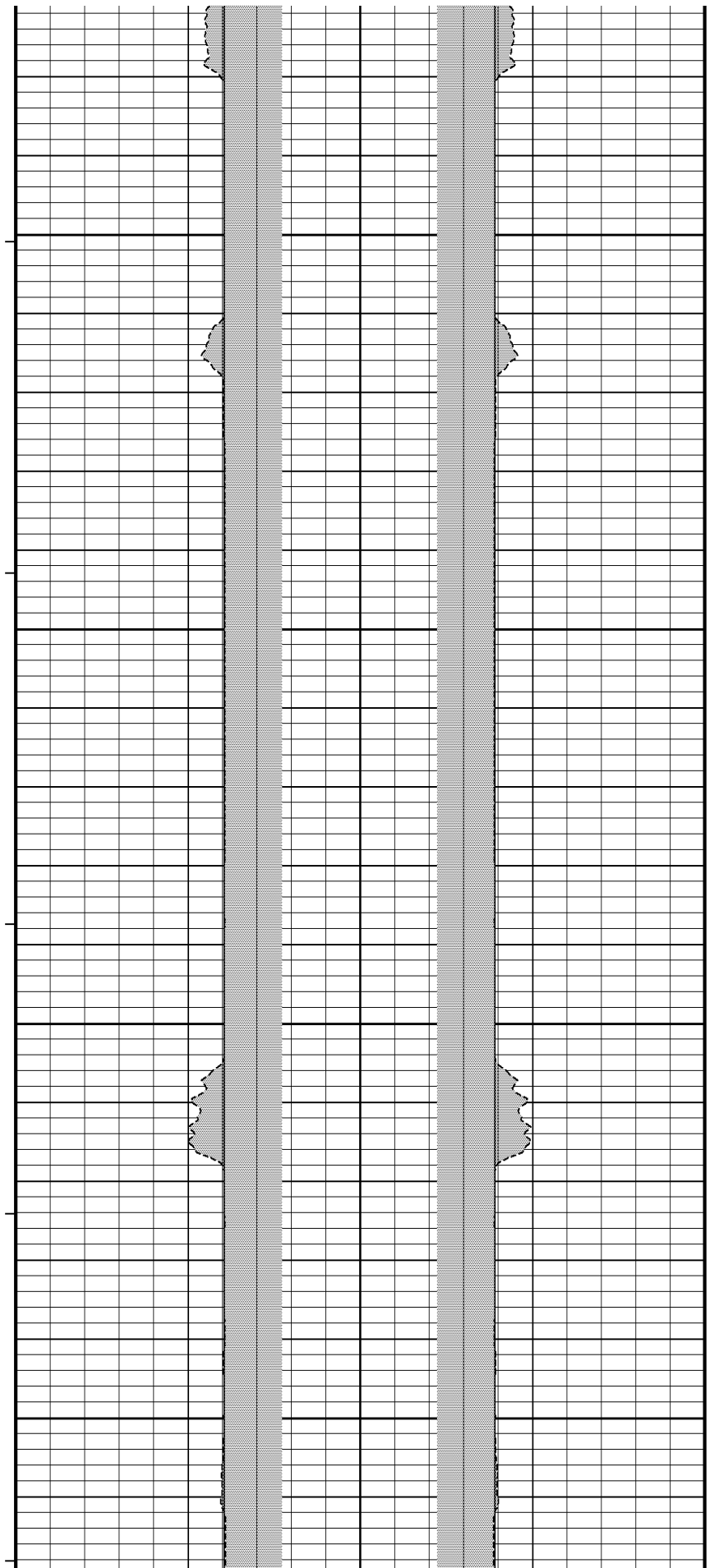
183°

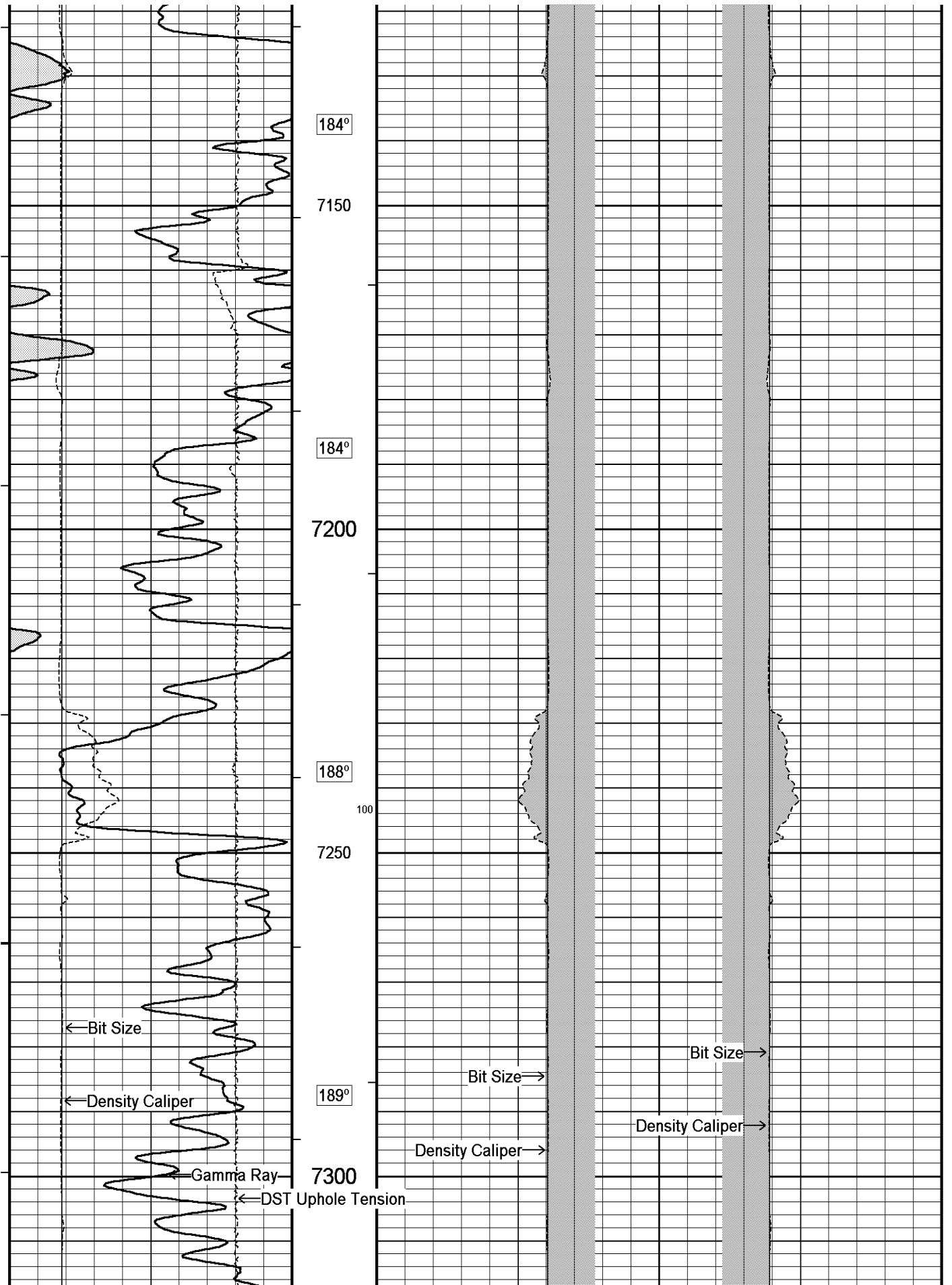
7050

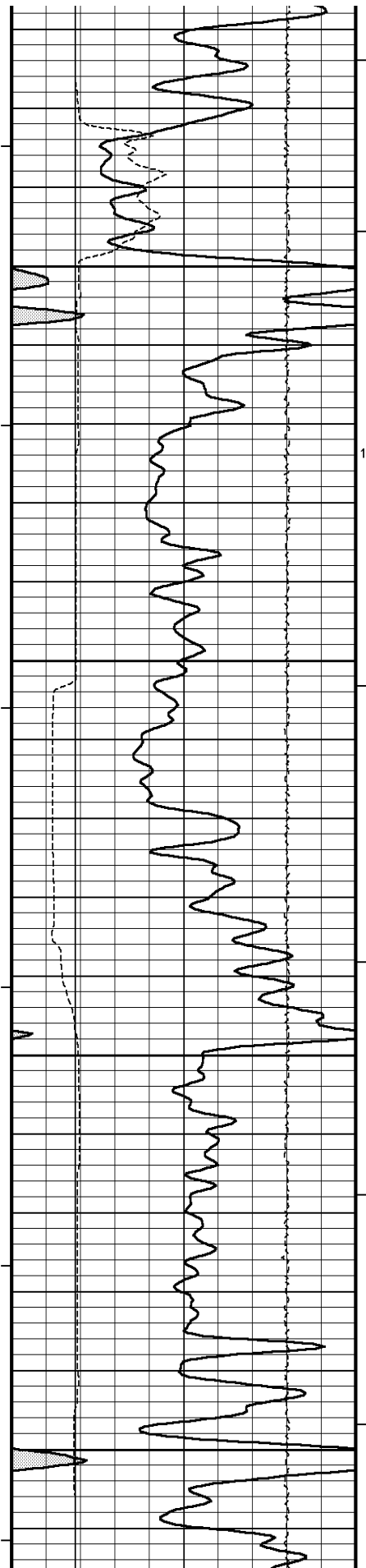
184°

7100

200







192°

7350

193°

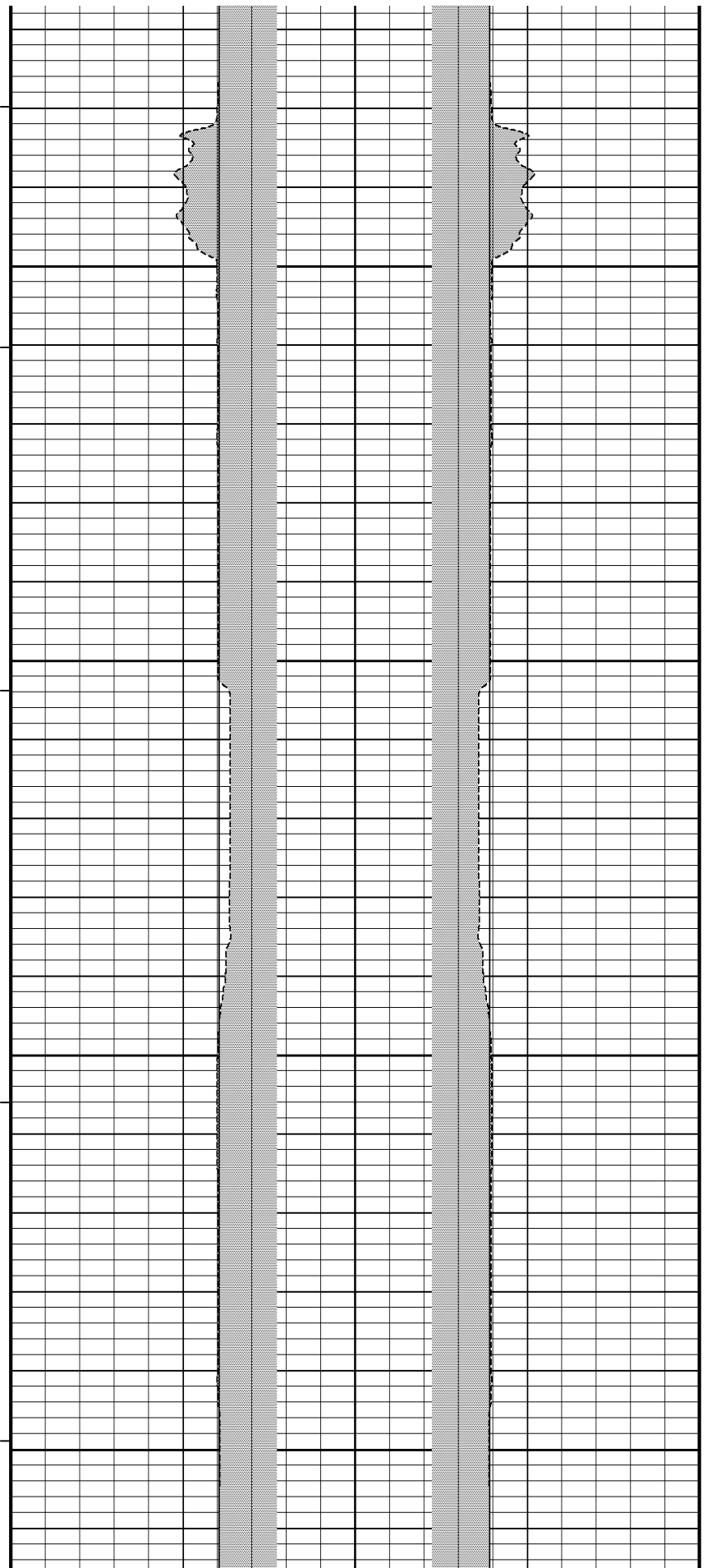
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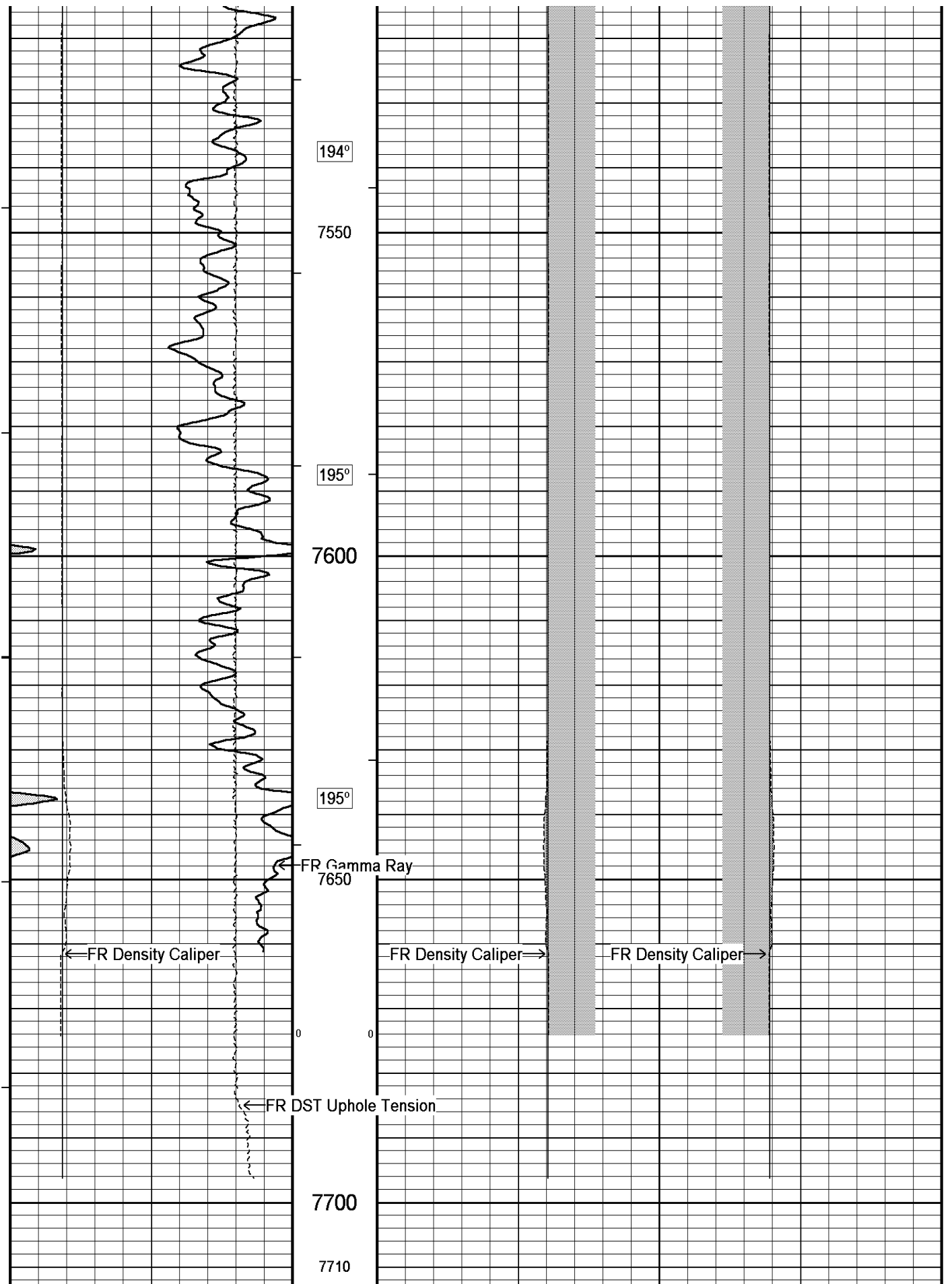
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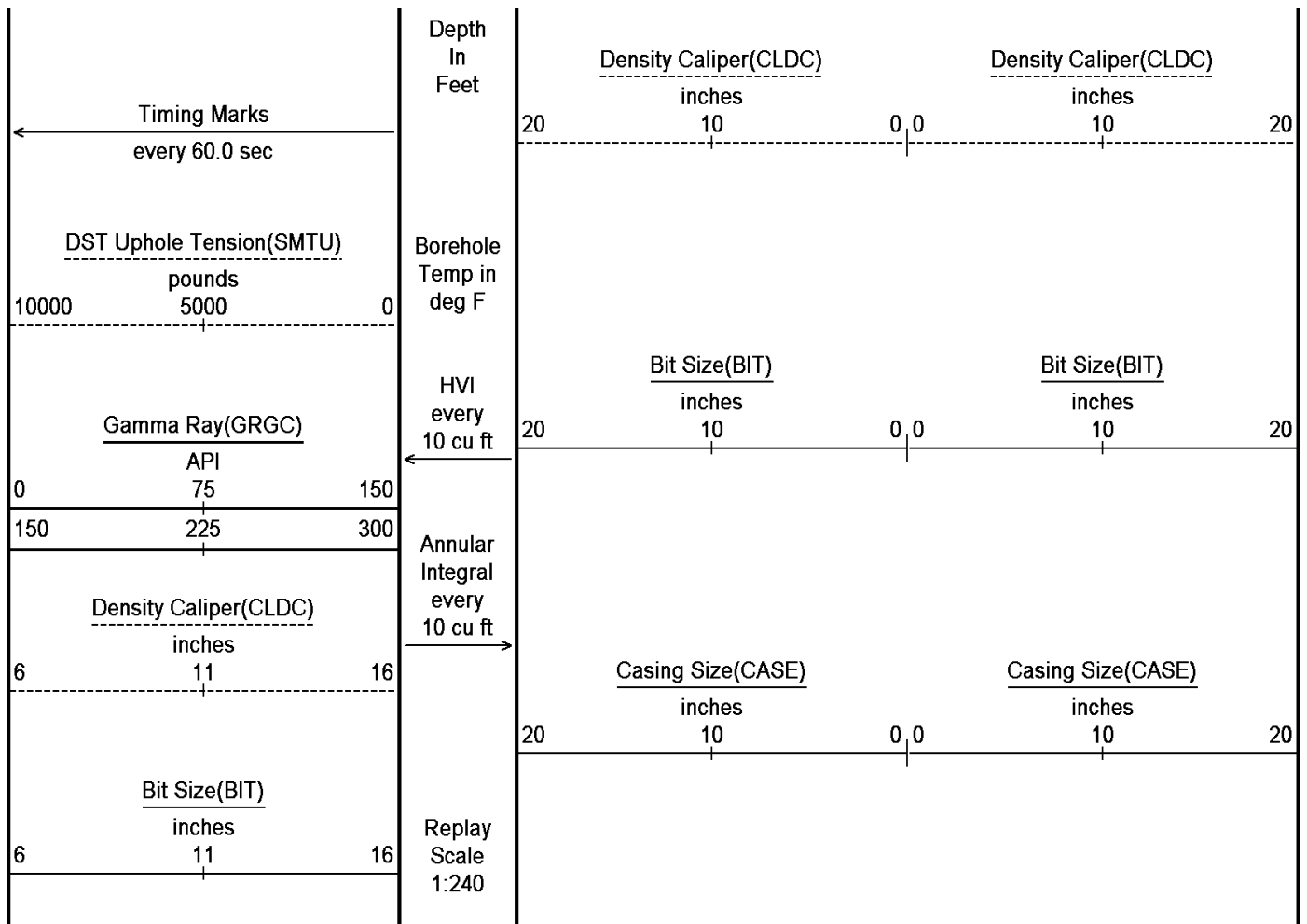
7450

194°

7500







Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 21-JUN-2011 12:44

Filename: C:\Minimus\LOGS\Bill Barrett\CB TG Land 21C-20-692\MAIN.dta

Recorded on 21-JUN-2011 10:03

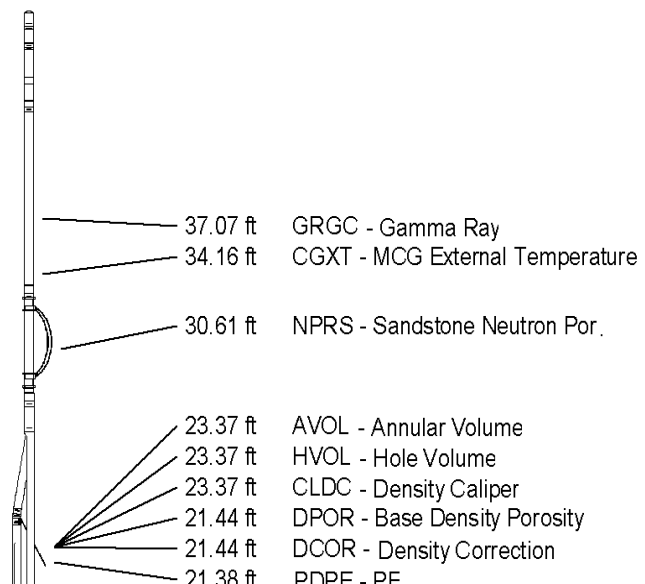
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

↑ **5 INCH MAIN LOG** ↑

DOWNHOLE EQUIPMENT

C:\Minimus\LOGS\Bill Barrett\CB TG Land 21C-20-692\MAIN.dta

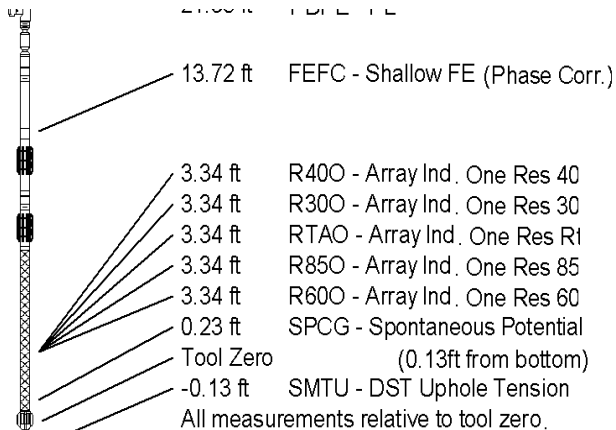
- 3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 197 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in
- SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 213 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in
- Compact Comms Gamma
MCG-D.A 342 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in
- Compact Neutron
MDN-B.A 306 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in
- Compact Density/Caliper
MPD-C.A 298 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 Focussed 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: 46.23 ft Weight: 363.8 lb



COMPANY	BILL BARRETT CORPORATION
WELL	CB-TG LAND 21C-20-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	5553.00	feet	First Reading	7661.00	
Elevation Drill Floor	5552.00	feet	Depth Driller	7687.00	feet
Elevation Ground Level	5530.00	feet	Depth Logger	7685.00	feet



Weatherford®

HOLE VOLUME
CALIPER
LOG

