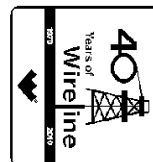




Weatherford

**HOLE VOLUME
CALIPER LOG**

COMPANY **BILL BARRETT CORPORATION**
WELL **GGU DALEY 24D-19-691**
FIELD **GIBSON GULCH**
PROVINCE/COUNTY **GARFIELD**
COUNTRY/STATE **U.S.A. / COLORADO**
LOCATION **SHL: 332' FSL & 2016' FWL**
BHL: 1165' FSL & 1980' FWL



SEC 19 TWP 6S RGE 91W
API Number 05-045-19576
Permit Number MA/IMFE
Other Services MPD/MDN

Permanent Datum G.L., Elevation 5824 feet
Log Measured From K.B. @ 23 FEET above Permanent Datum
Drilling Measured From K.B.

Elevations:
KB 5847.00
DF 5846.00
GL 5824.00

Date	14-JUN-2011		
Run Number	ONE		
Depth Driller	7420.00	feet	
Depth Logger	7417.00	feet	
First Reading	7394.00		
Last Reading	802.00		
Casing Driller	802.00	feet	
Casing Logger	802.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	LSND		
Density / Viscosity	10.70 lb/USg	58.00 CP	
PH / Fluid Loss	9.30	4.00 ml/30Min	
Sample Source	FLOW LINE		
Rm @ Measured Temp	3.37 @ 67.0	ohm-m	
Rmf @ Measured Temp	2.69 @ 67.0	ohm-m	
Rmc @ Measured Temp	4.04 @ 67.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.247 @ 186.0	ohm-m	
Time Since Circulation	5 HOURS		
Max Recorded Temp	186.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13037	R SPGS	
Recorded By	K. SALLER		
Witnessed By	C. CROW		

BOREHOLE RECORD

Last Edited: 15-JUN-2011 02:27

Bit Size inches	Depth From feet	Depth To feet
8.750	802.00	5492.00
7.875	5492.00	7417.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	802.00	36.00

REMARKS

WLS SOFTWARE VERSION 11.02.3186

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

2.00 G/GC 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.

PULLED TIGHT AT 6950FT, ASKED BY CLIENT NOT TO RETURN BELOW THAT DEPTH FOR A SUBSEQUENT REPEAT PASS

SPLICES PERFORMED AT 6840FT, 6610FT, 5790FT

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 9.01" (9 5/8", 36 LB/FT CASING)

MAXIMUM WELL DEVIATION 20 DEG

8.75 INCH BIT USED FROM SURFACE CASING TO 5492 FEET.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING =2190 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1645 CU.FT.

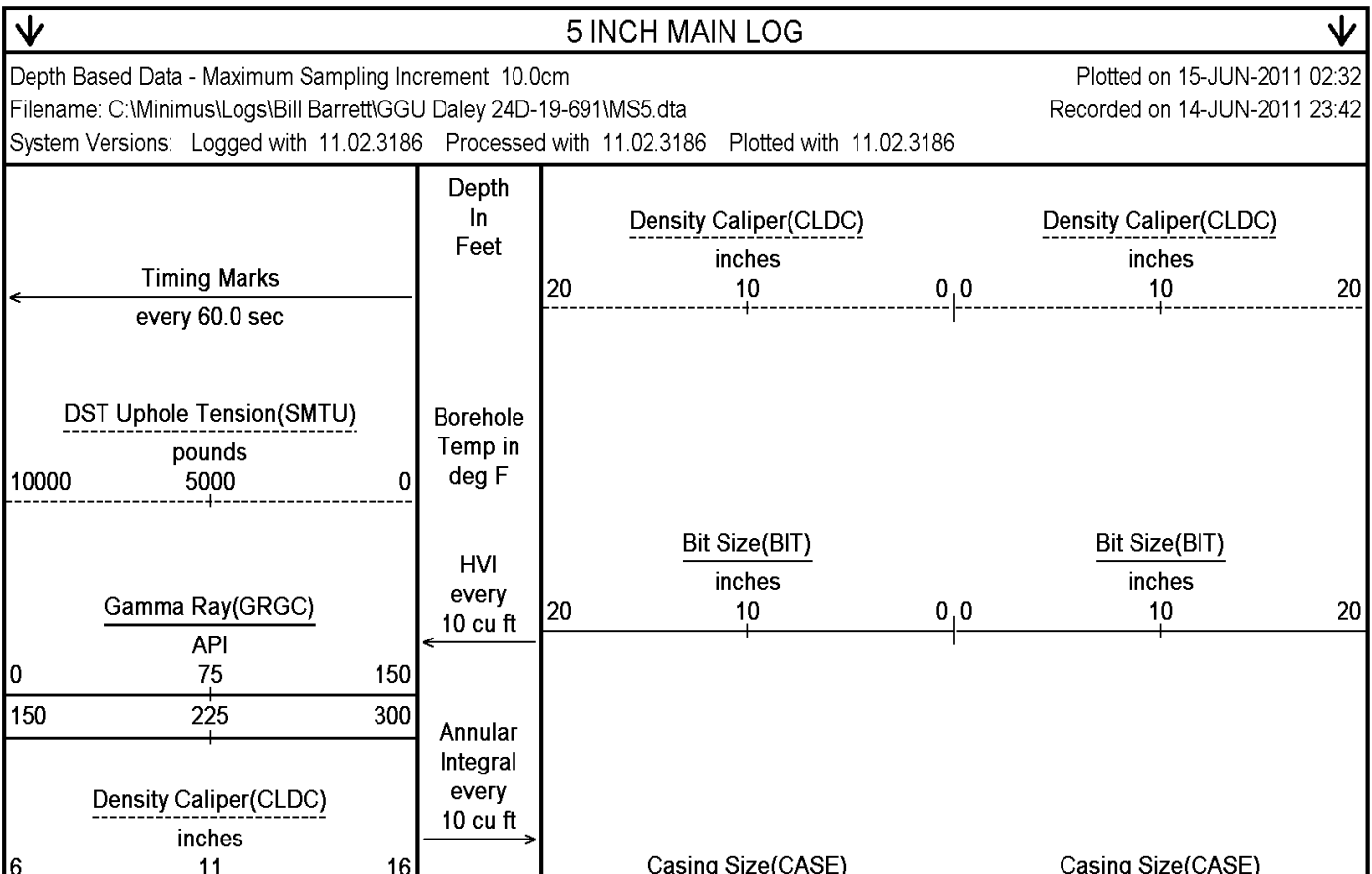
ENGINEER(S): K. SALLER

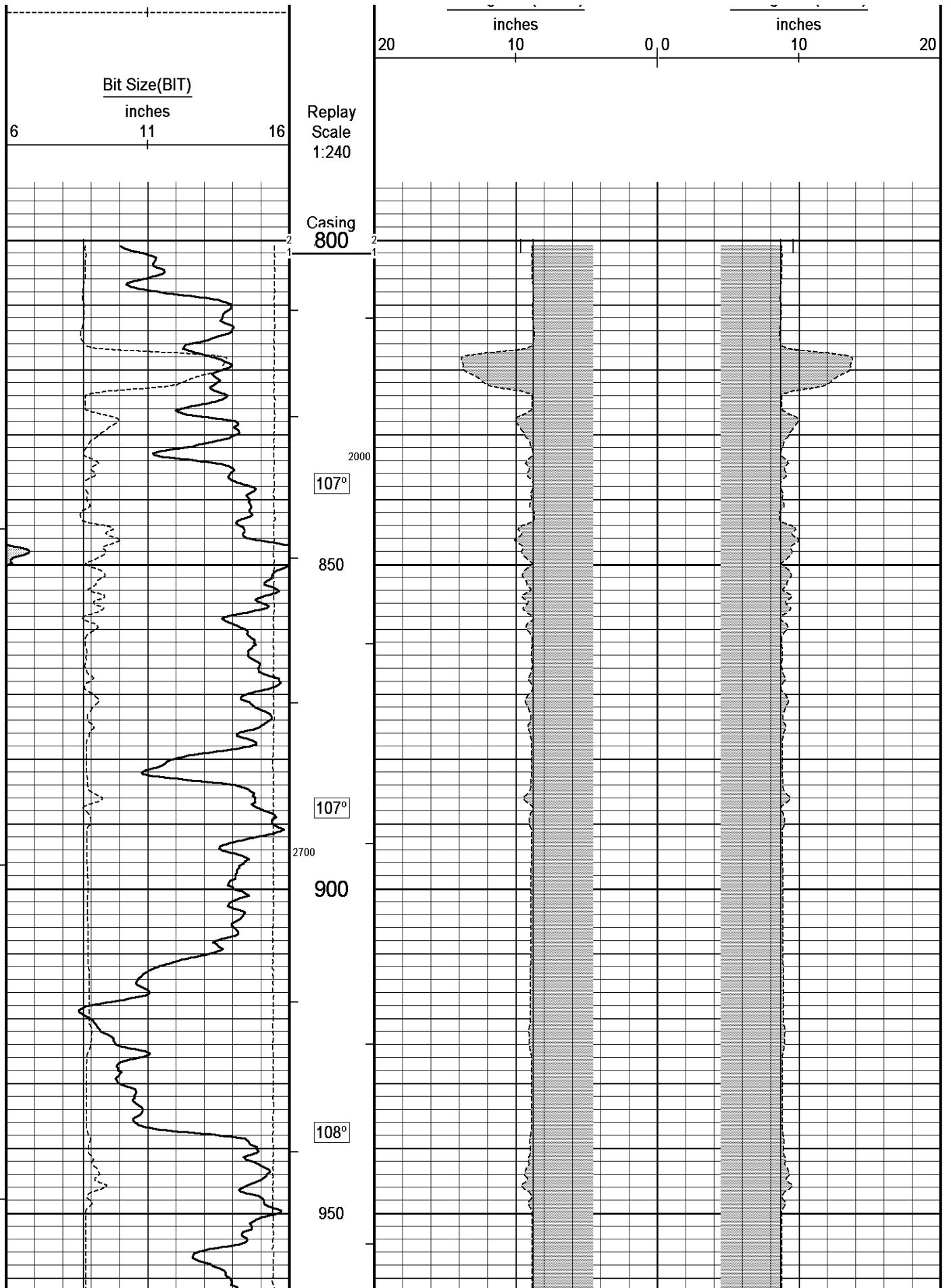
OPERATOR(S): D. SMITH, S. KAISER, J. LIU

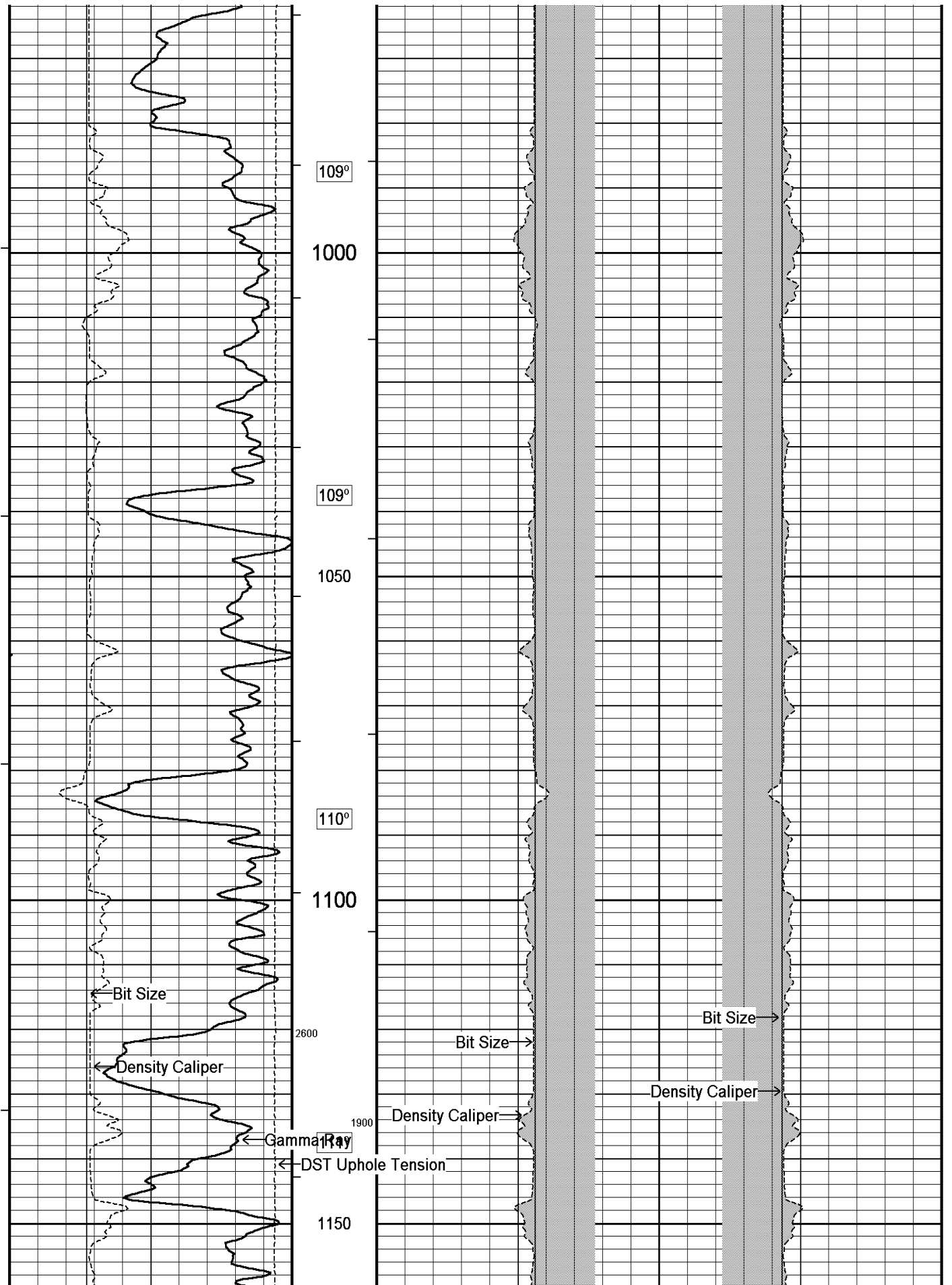
SERVICE ORDER: # 3524807

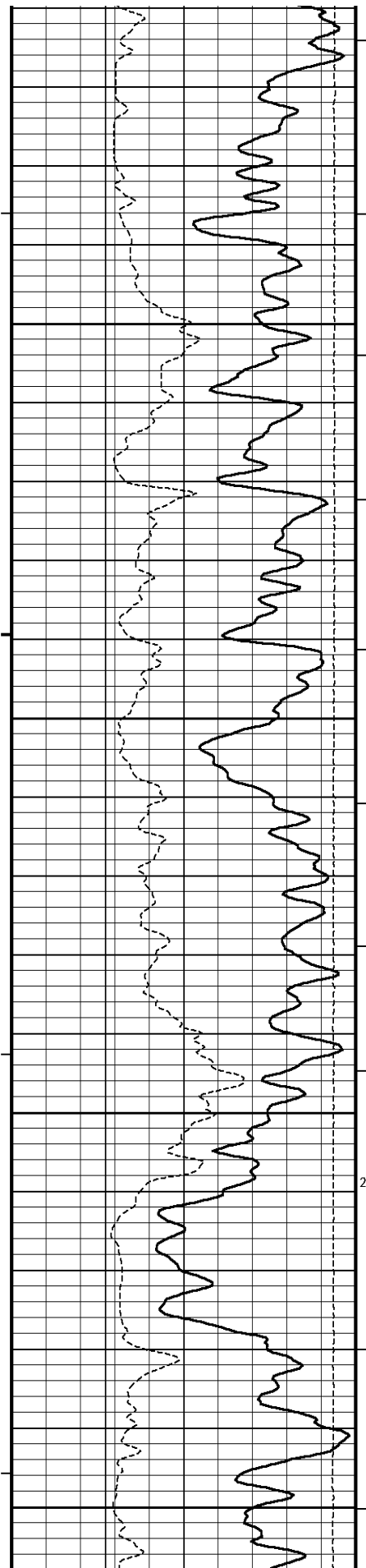
RIG: PATTERSON #307

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.









111°

1200

112°

1250

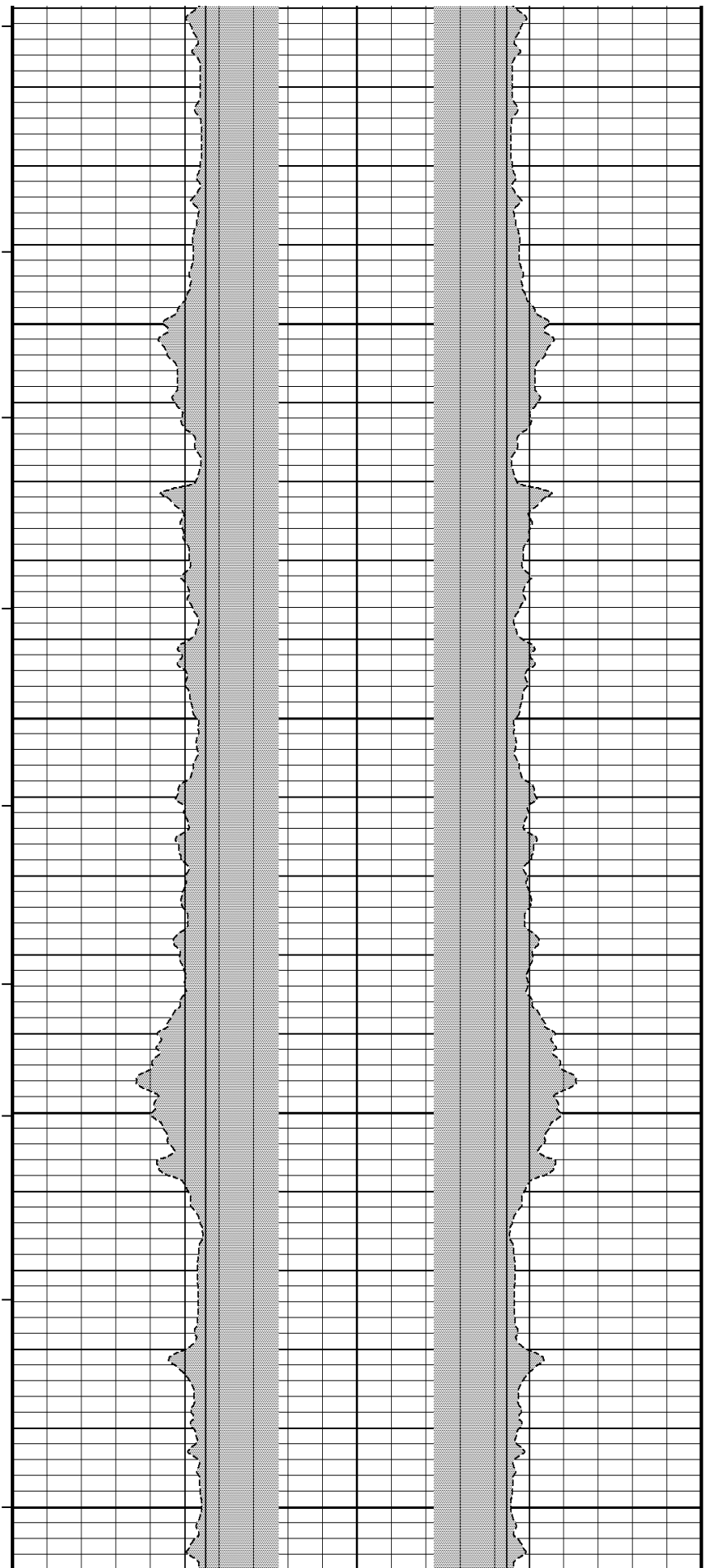
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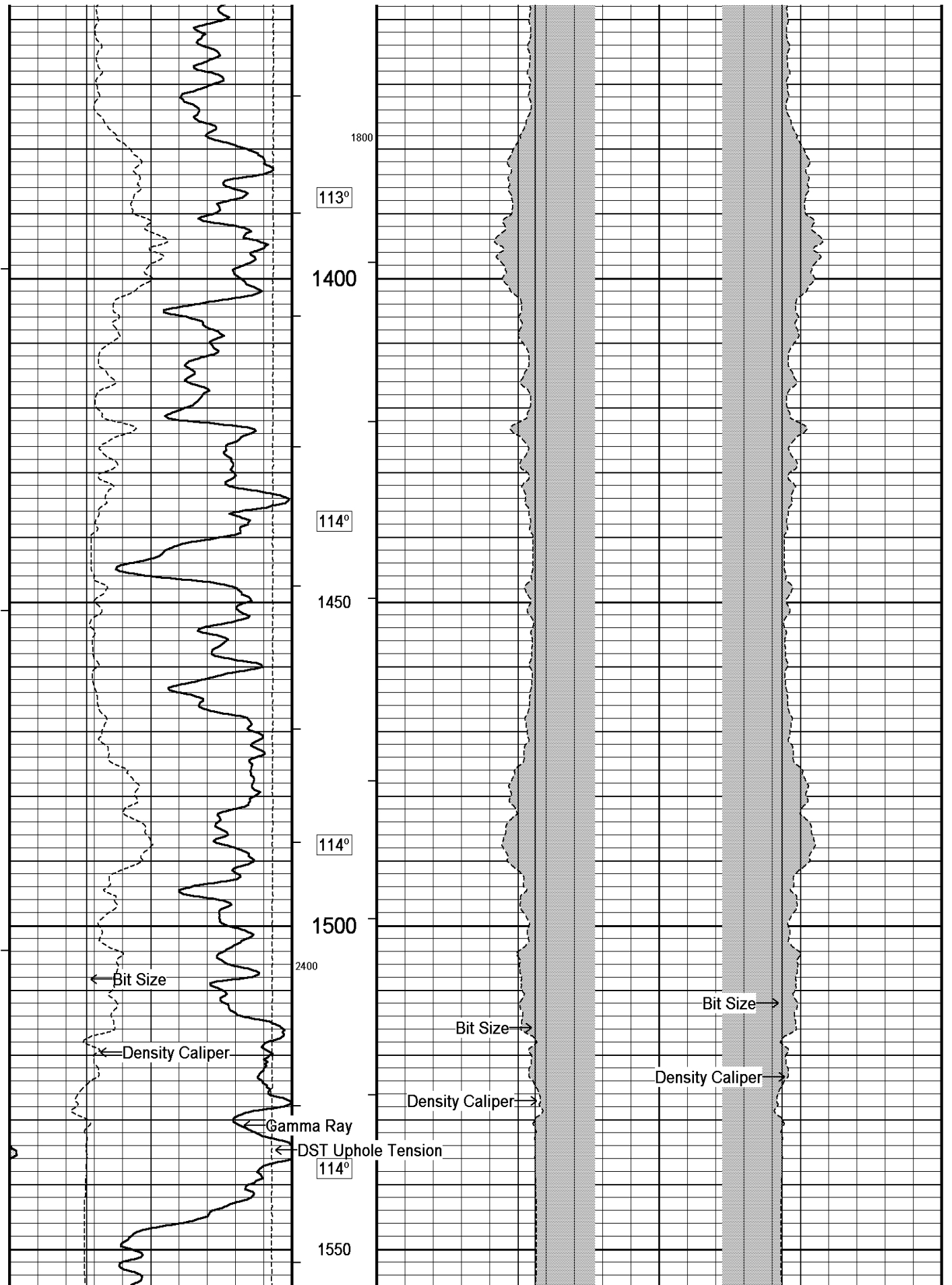
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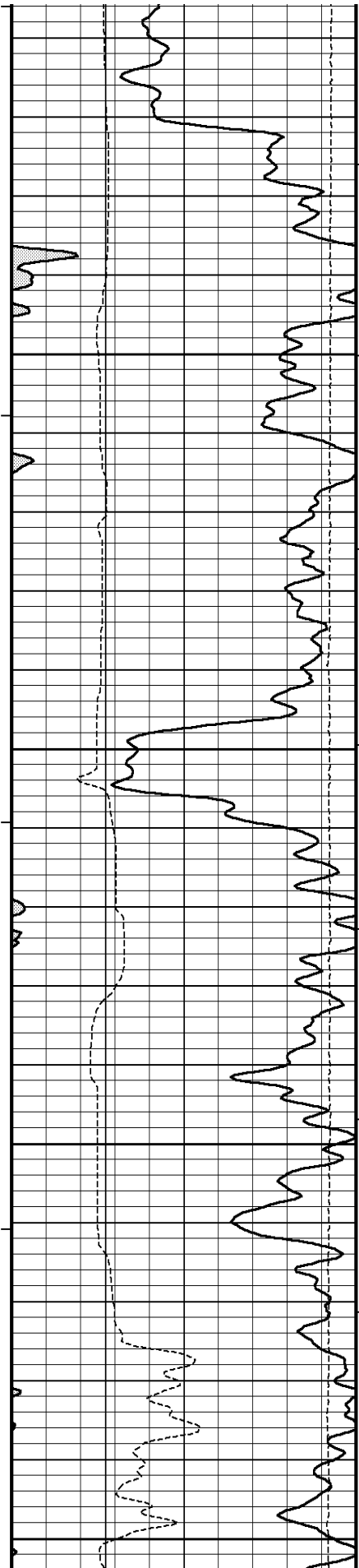
2500

113°

1350







116°

1600

116°

1650

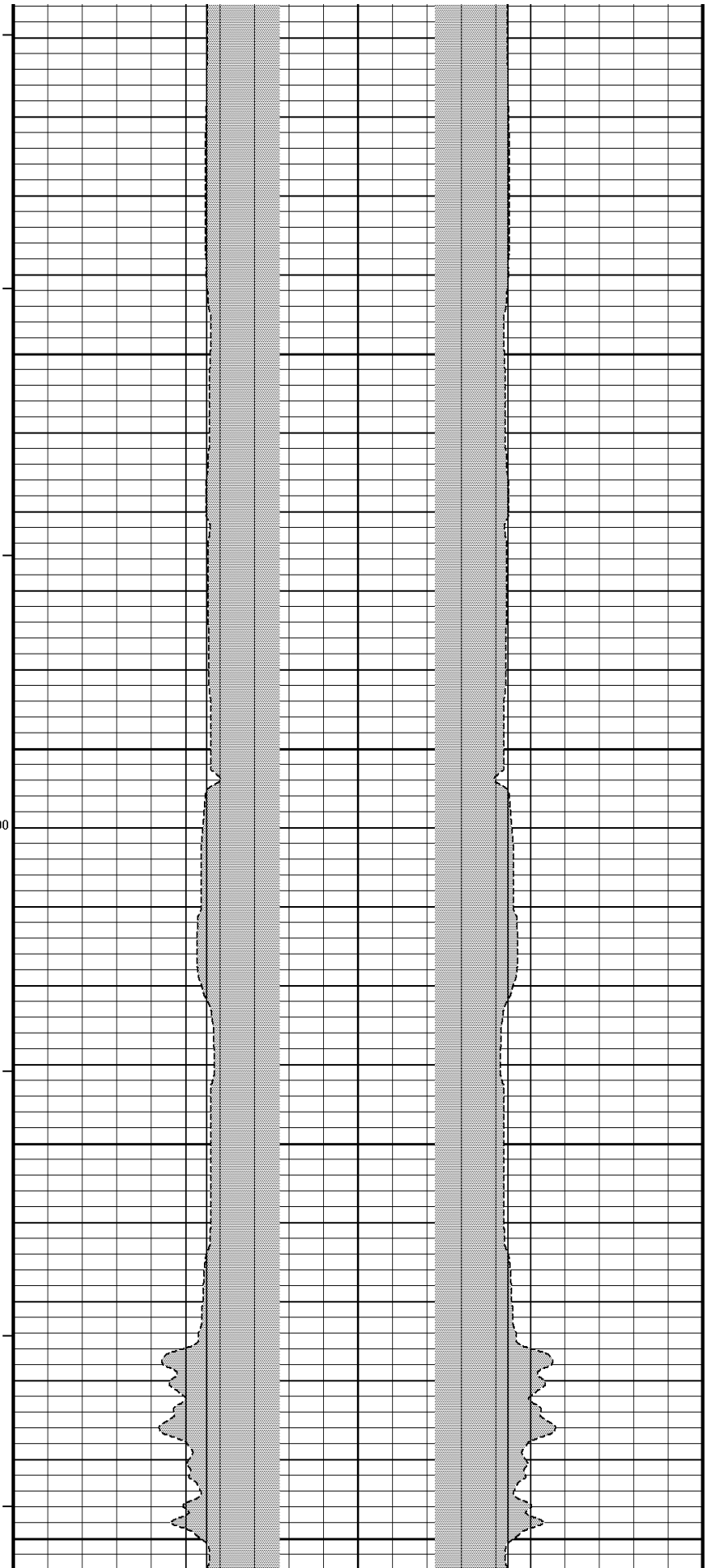
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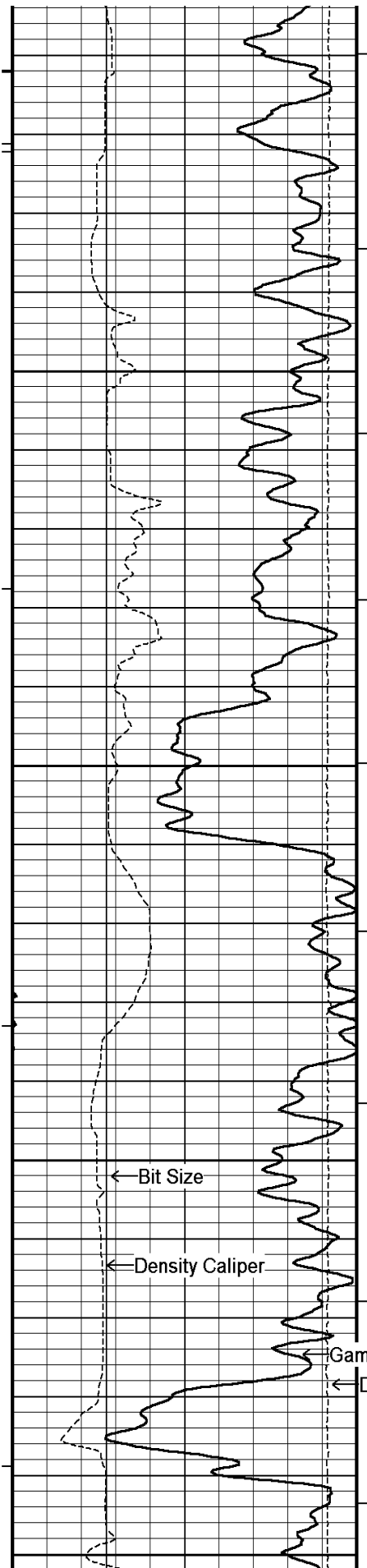
117°

1700

2300 117°

1750





118°

1800

118°

1850

119°

1900

← Bit Size

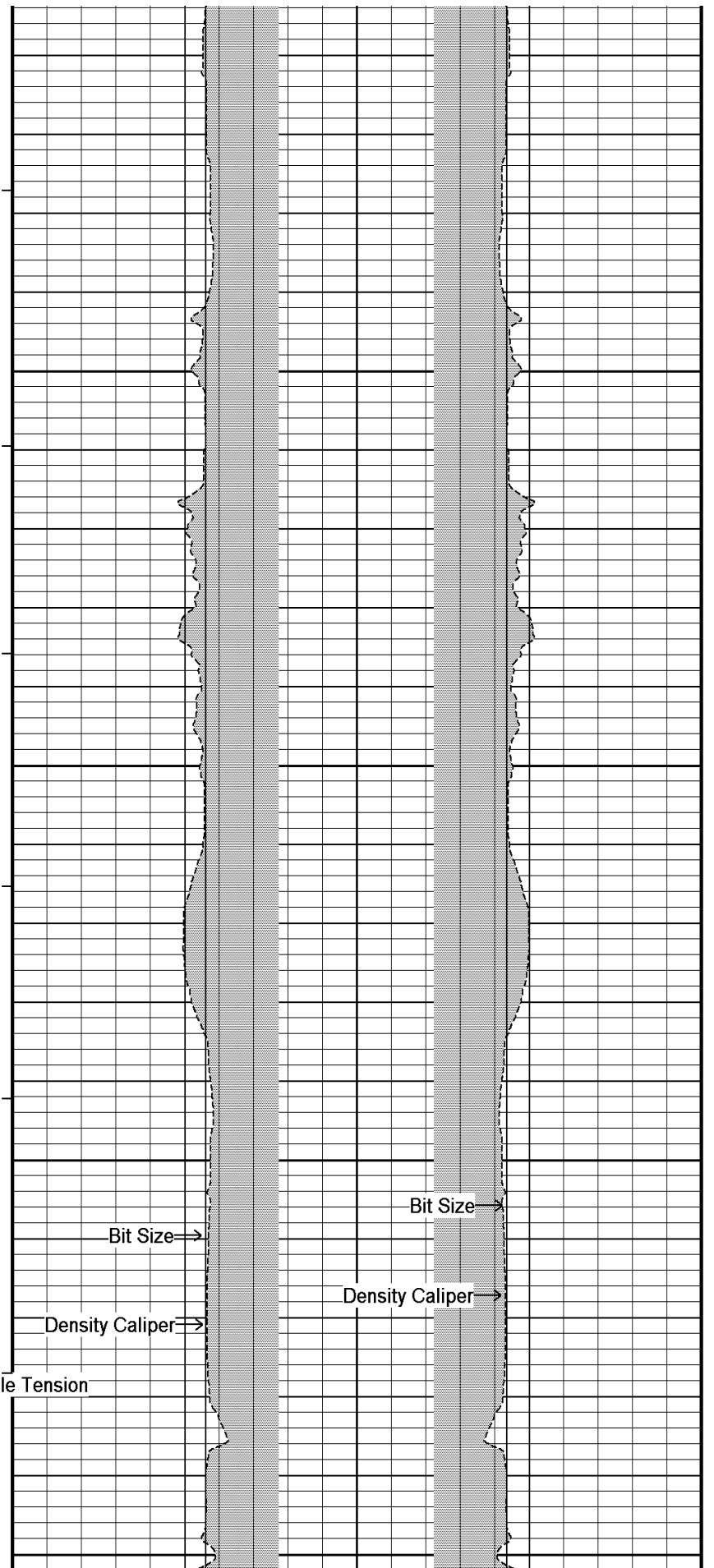
← Density Caliper

← Gamma Ray

← DST Uphole Tension

119°

1950

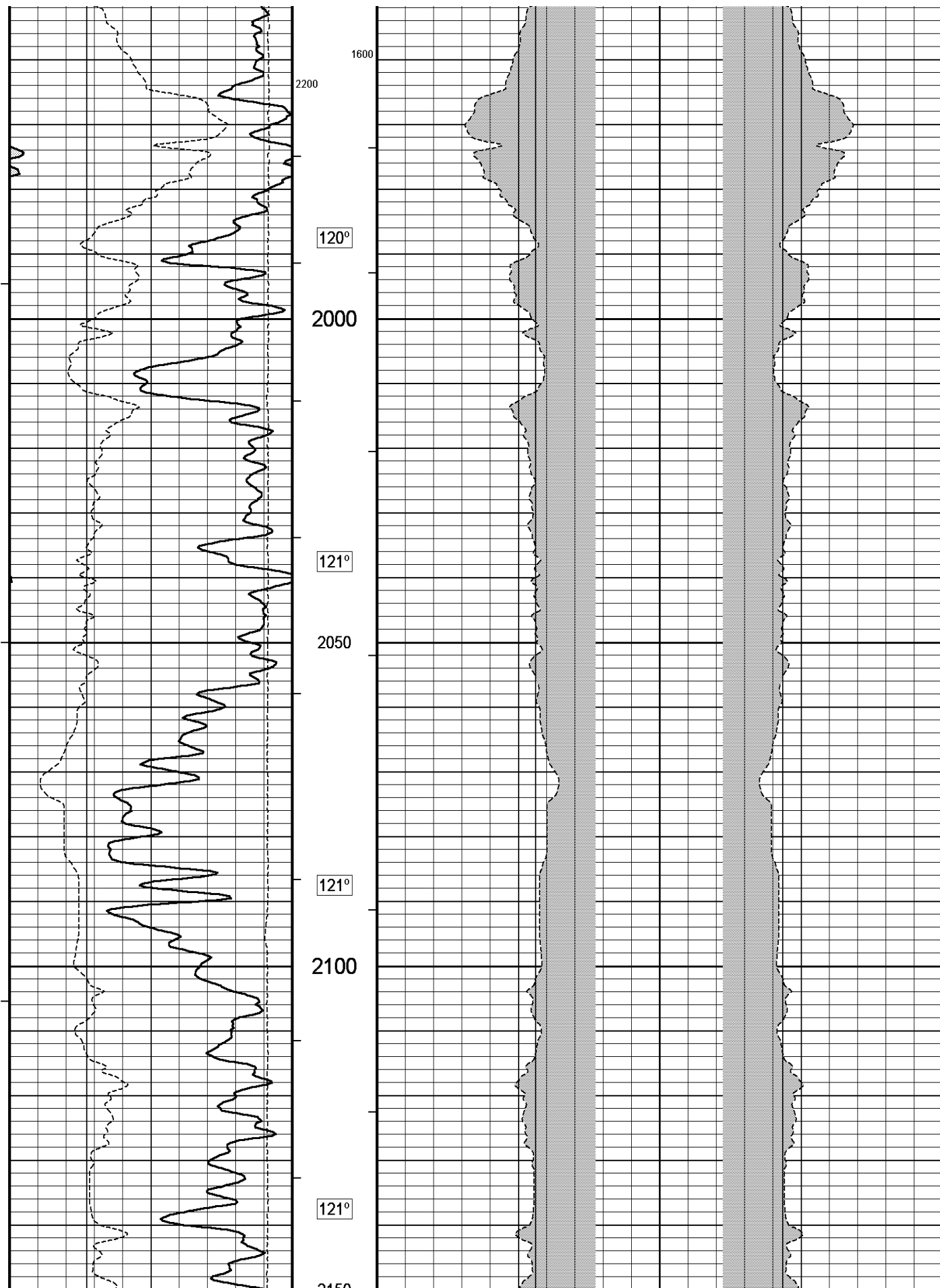


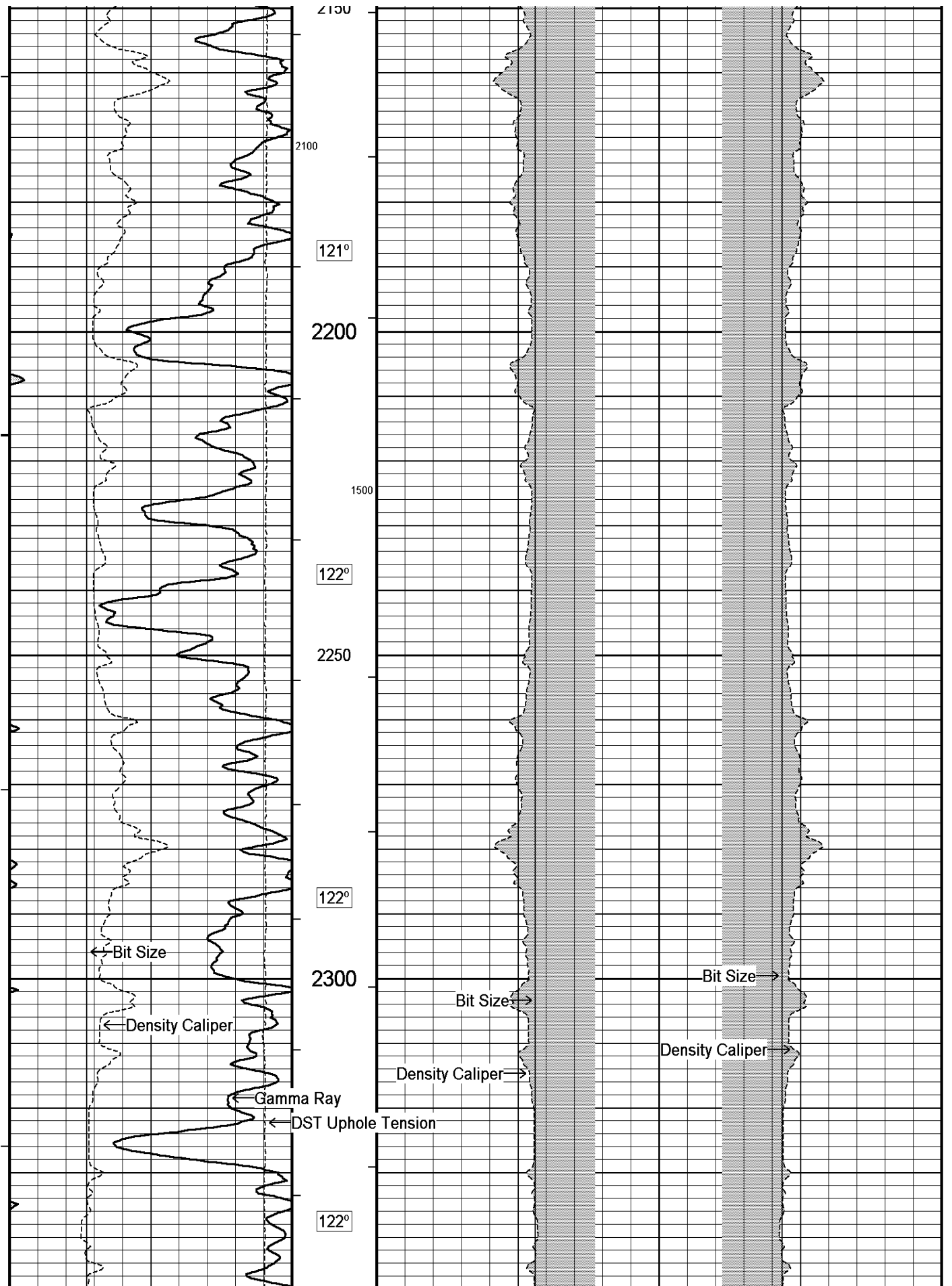
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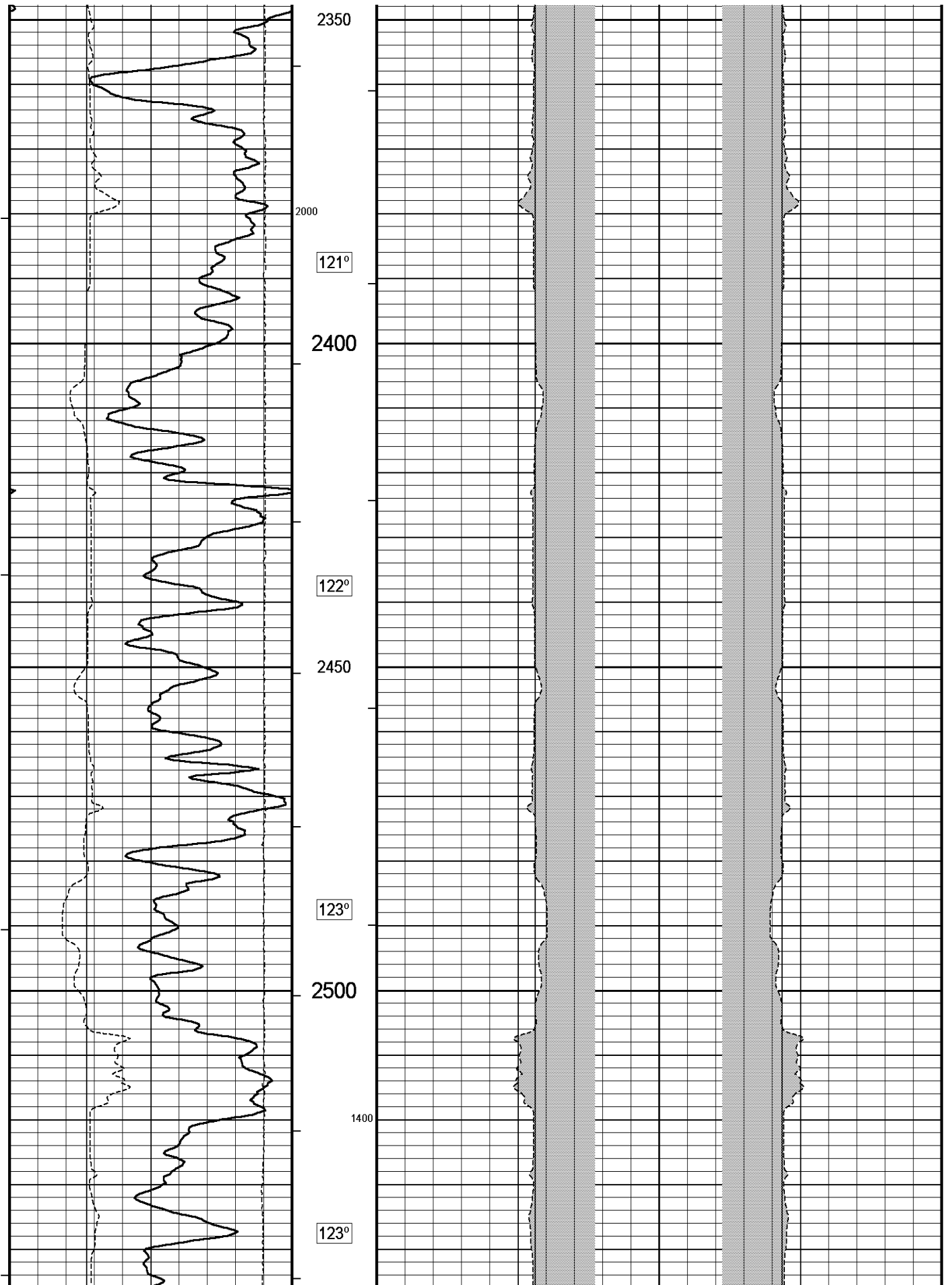
Density Caliper →

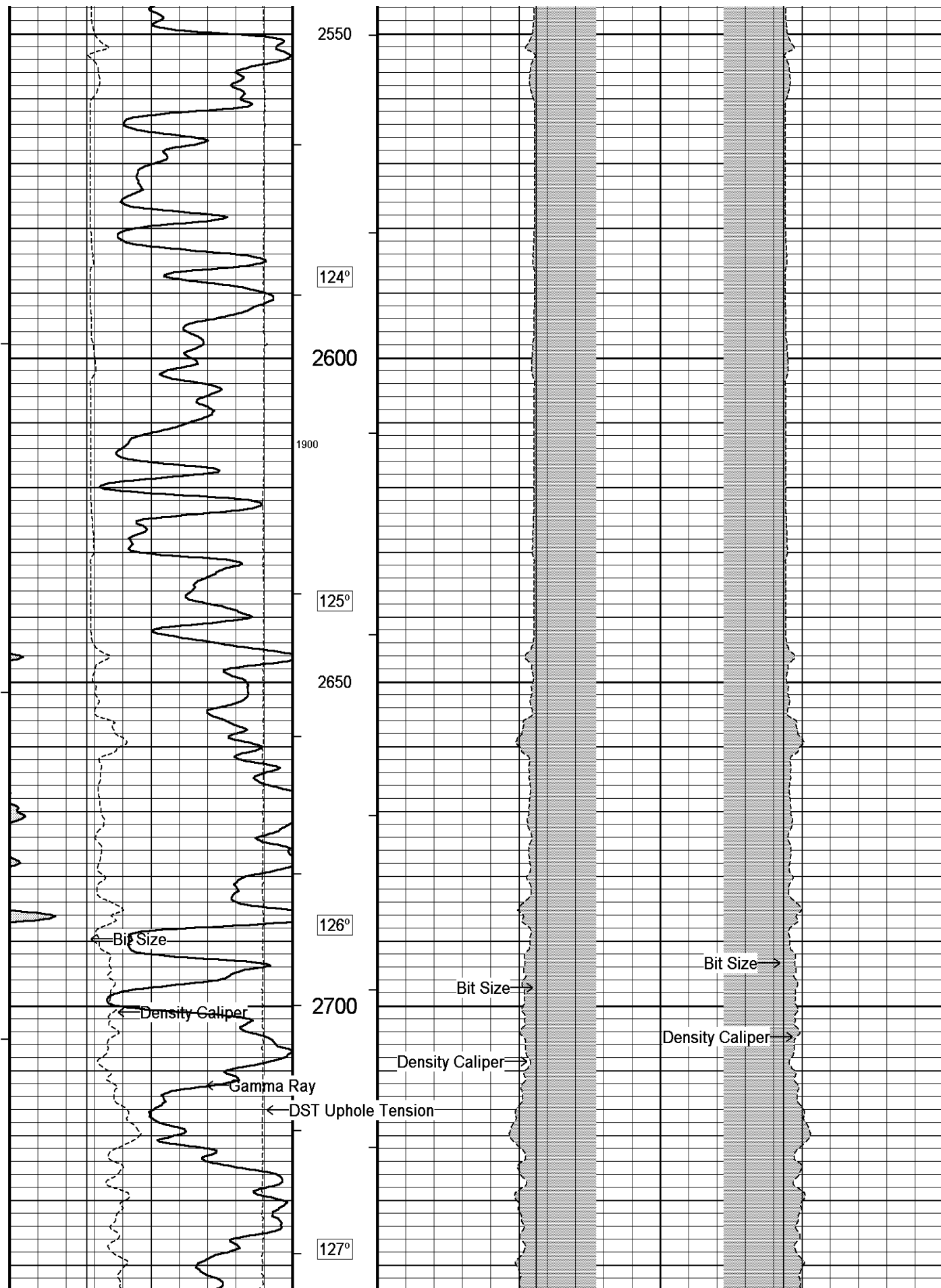
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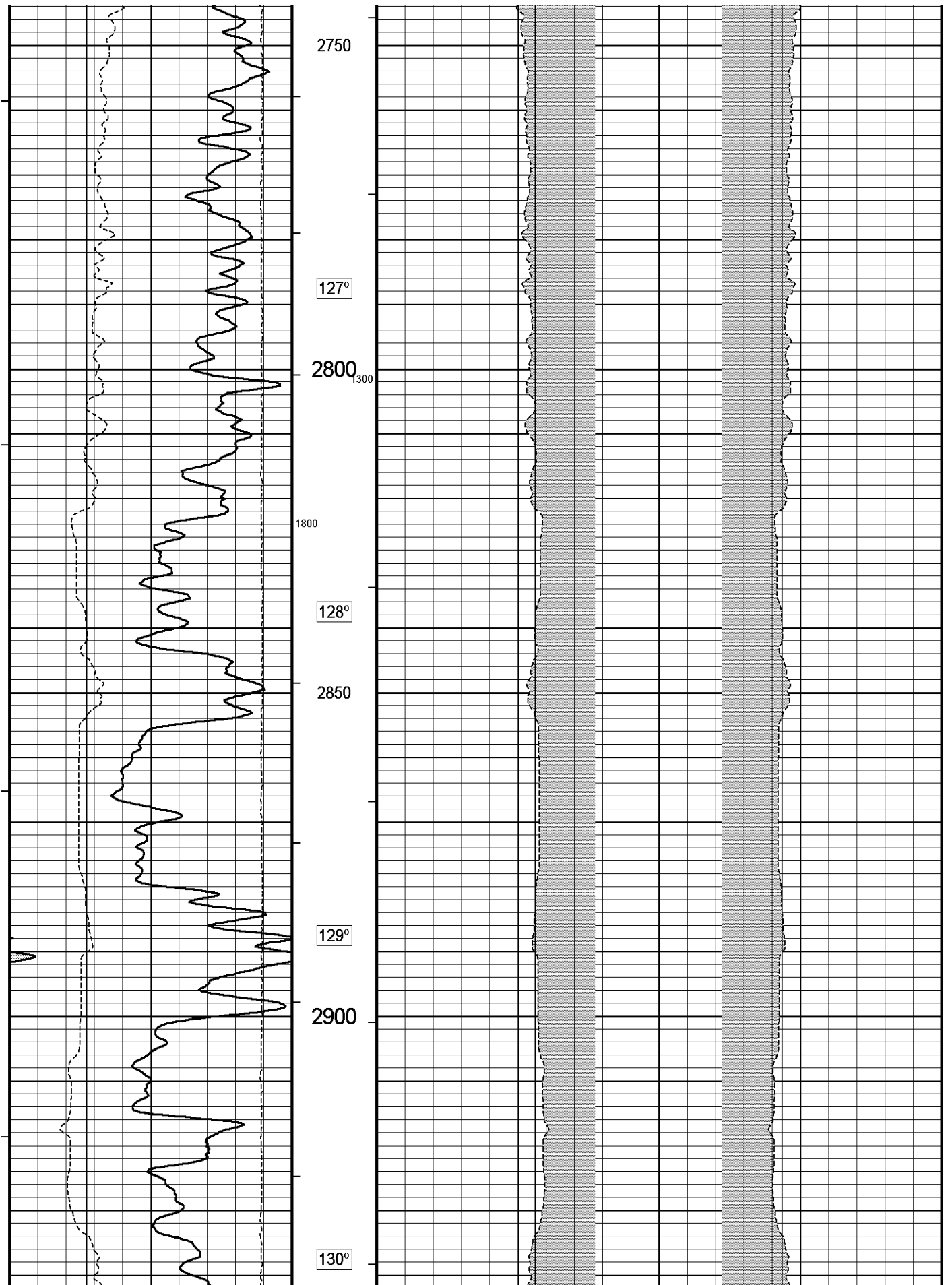
Density Caliper →

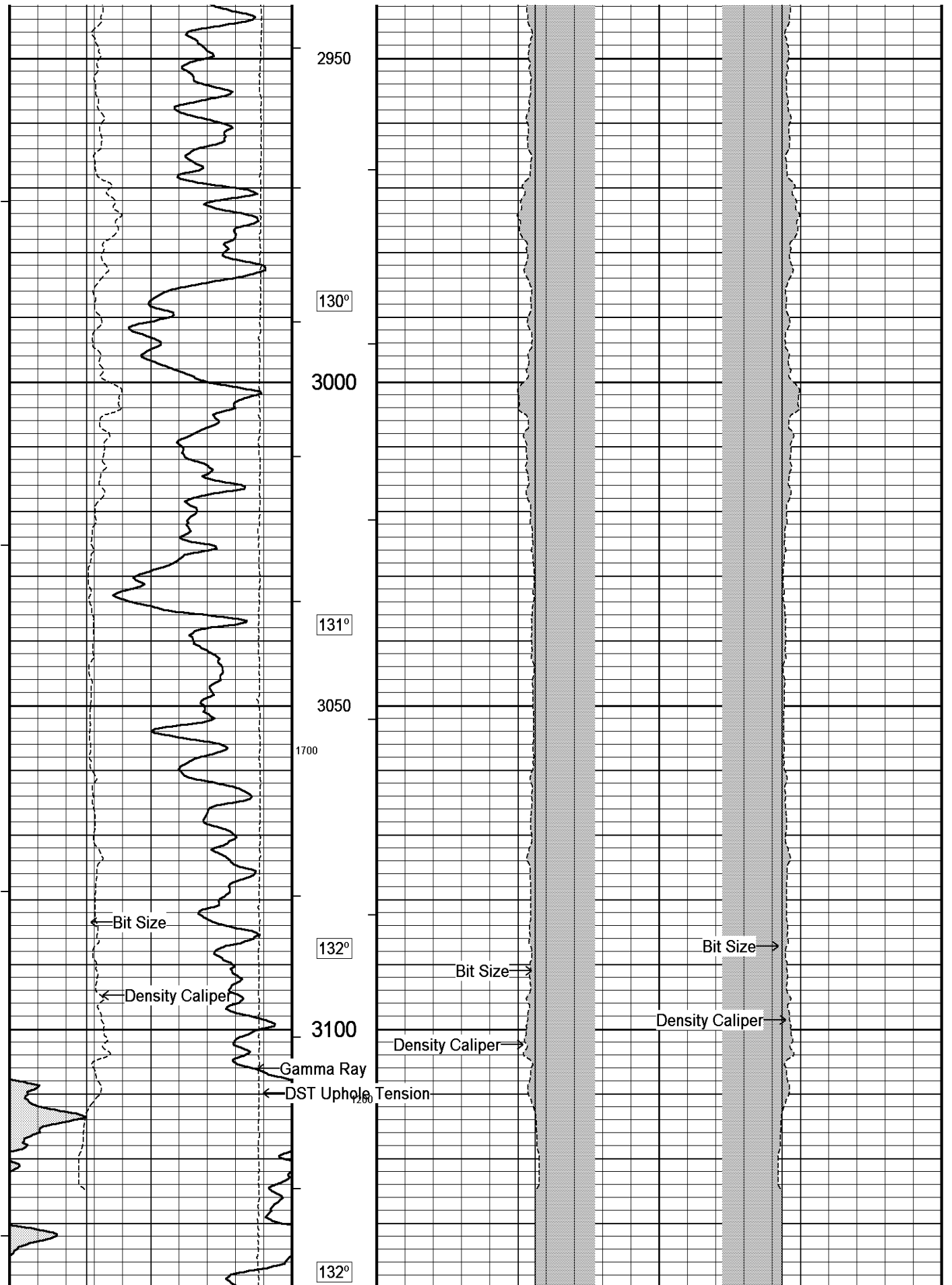


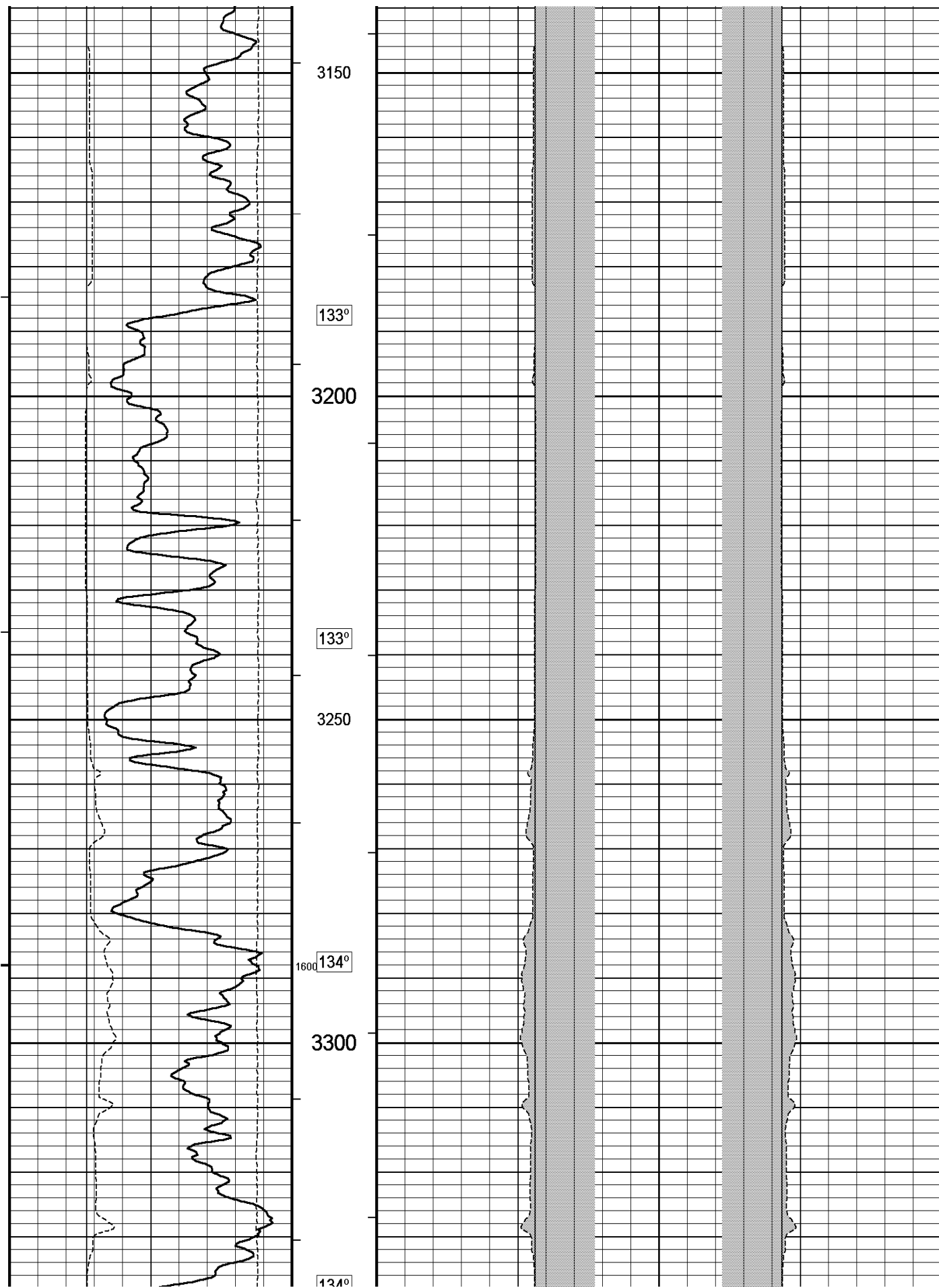


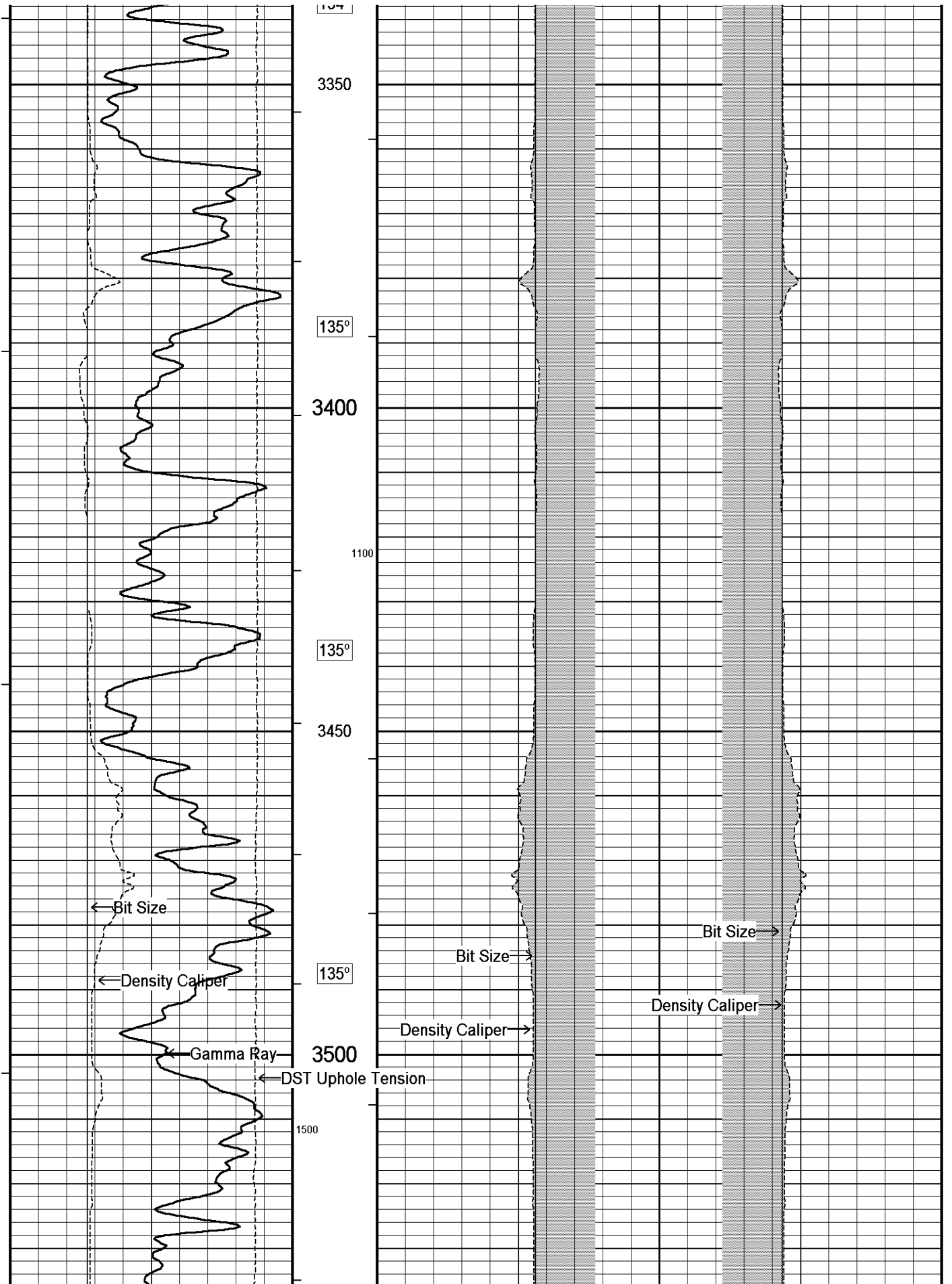


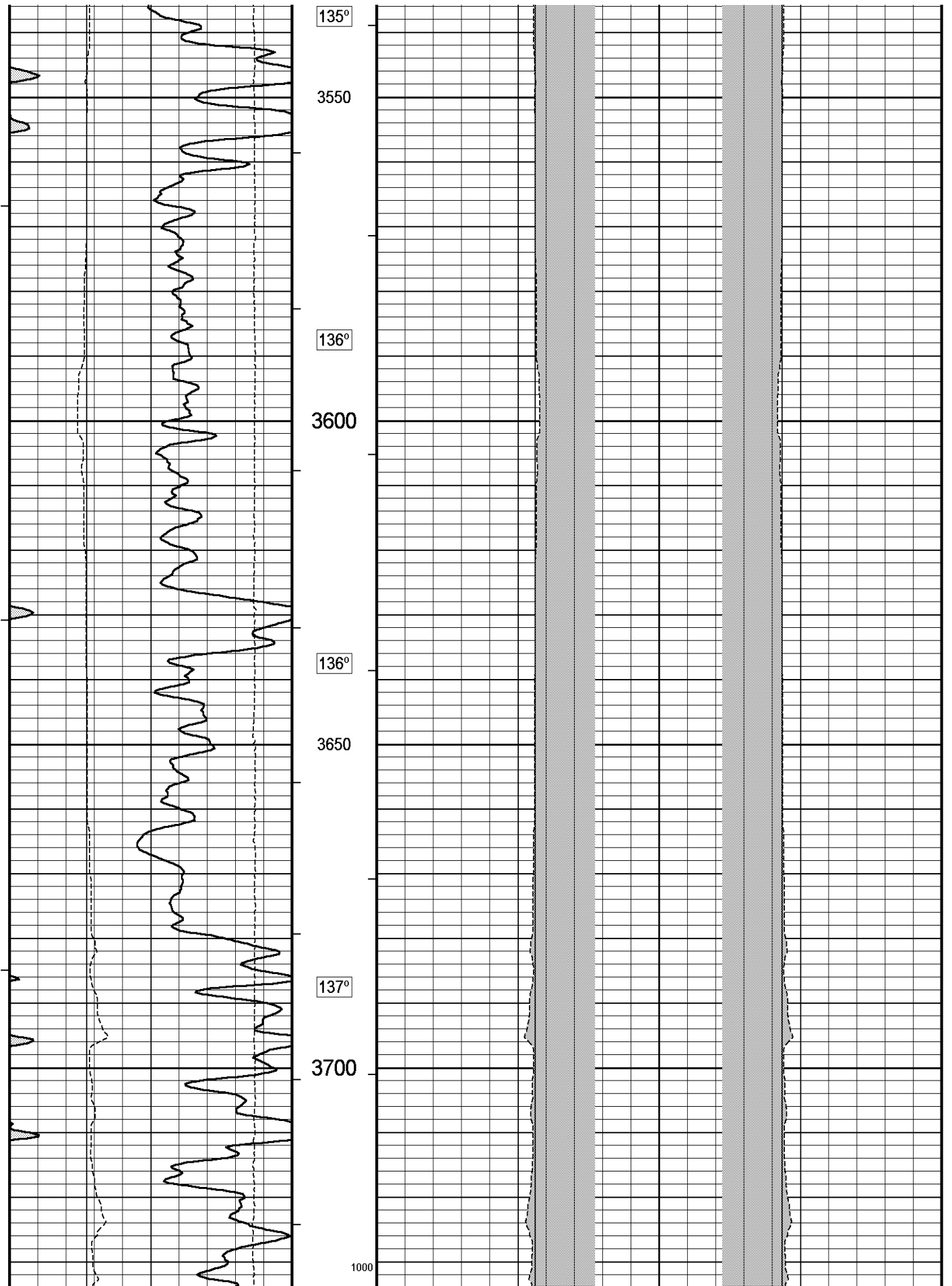


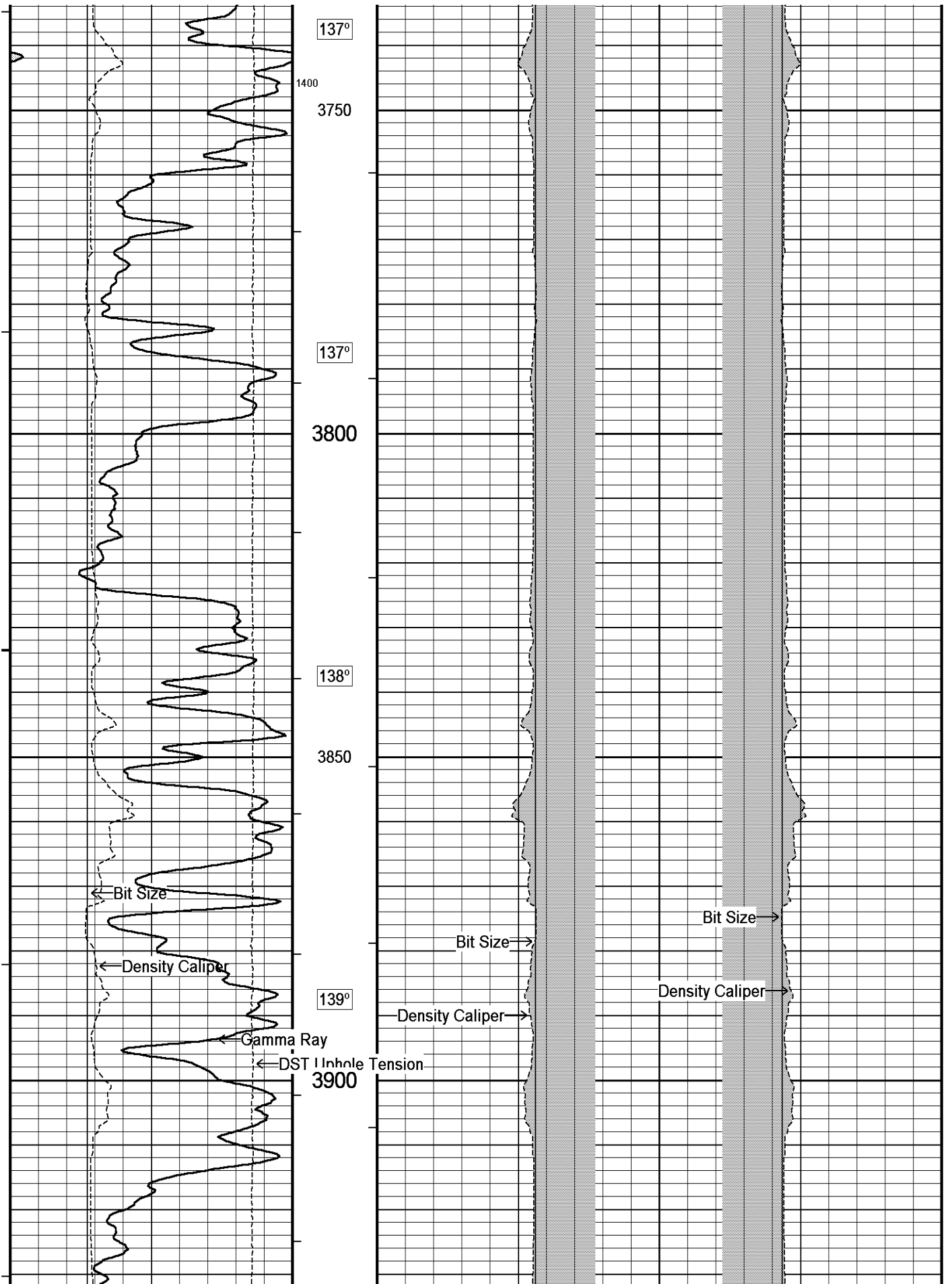


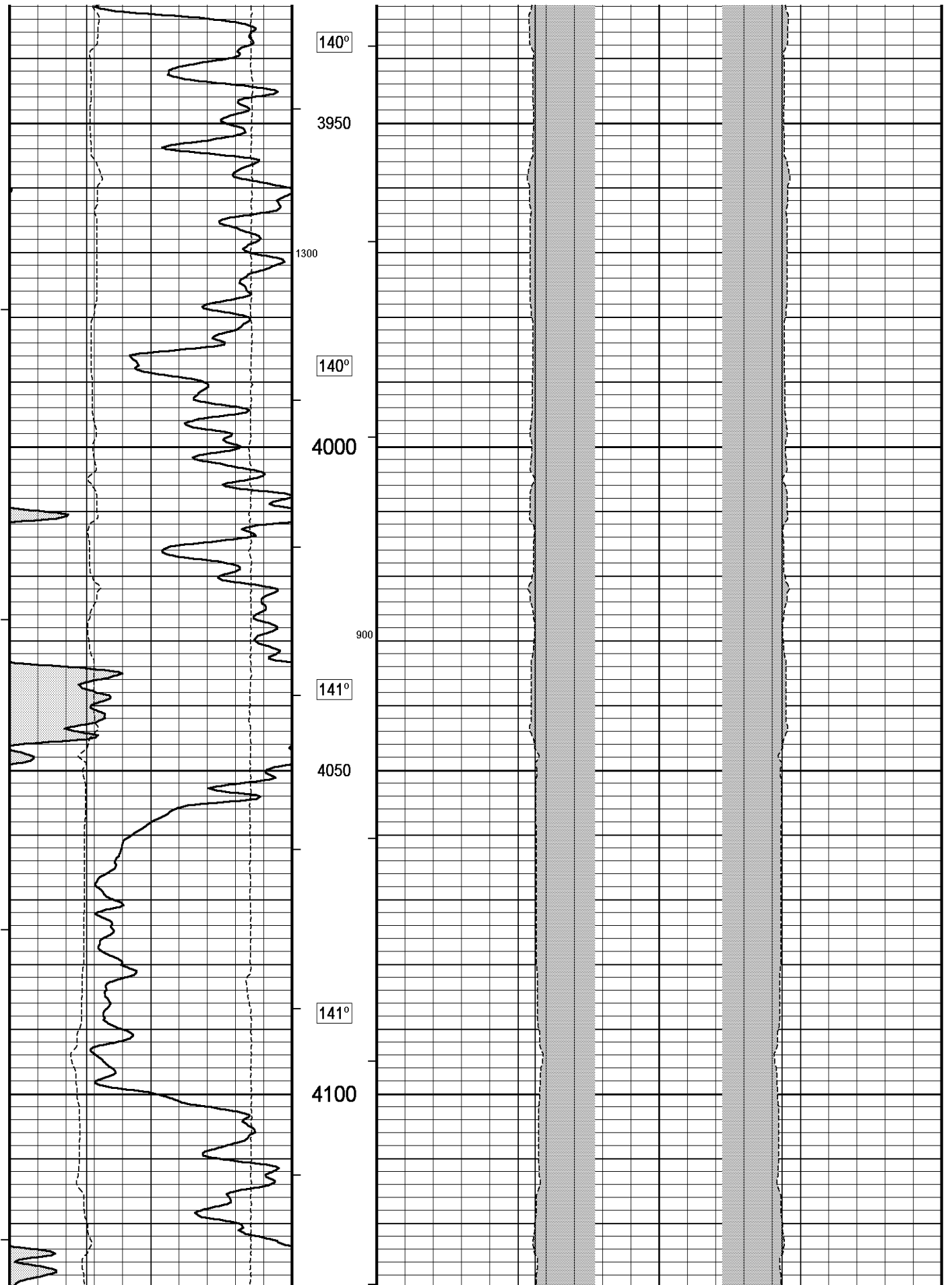


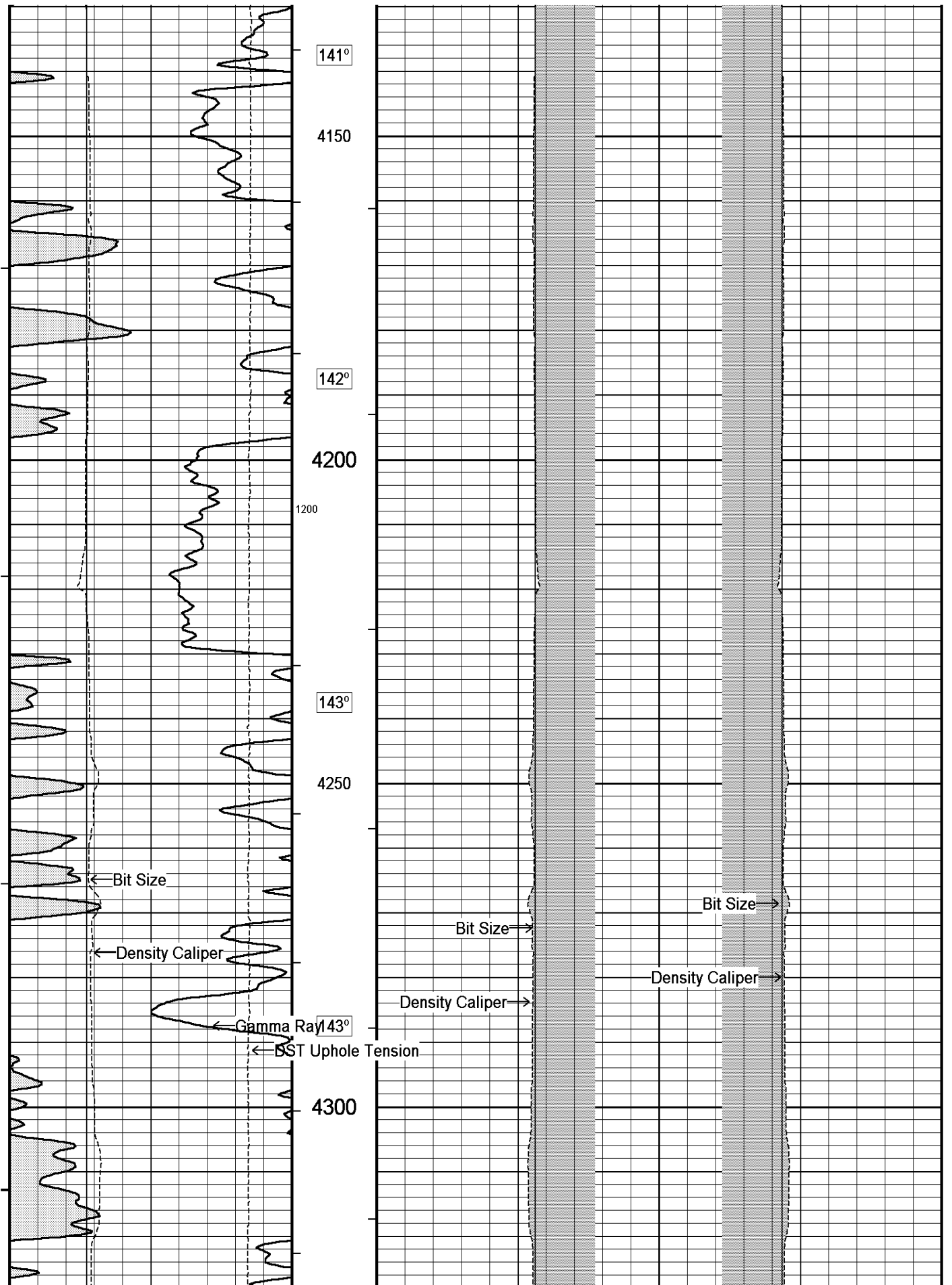


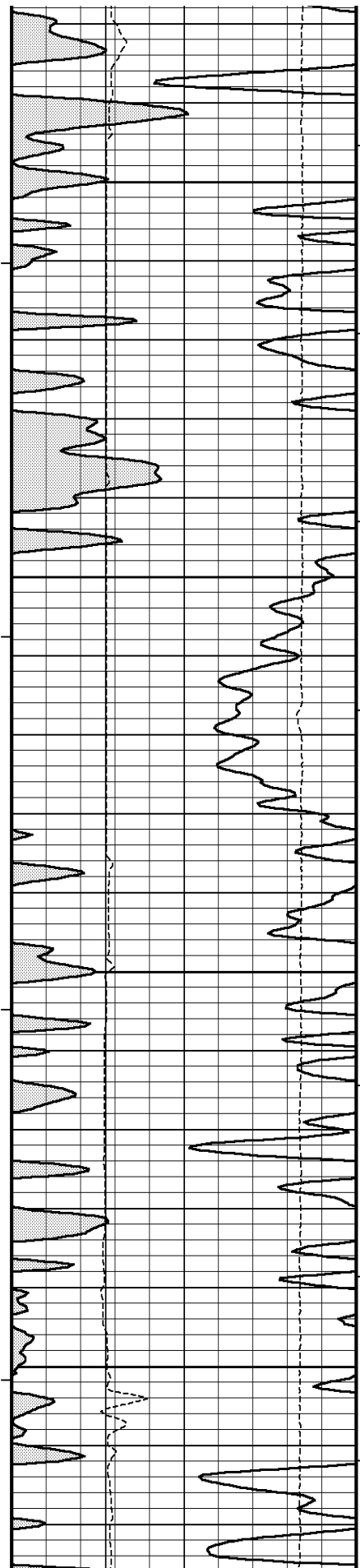












144°

4350⁸⁰⁰

144°

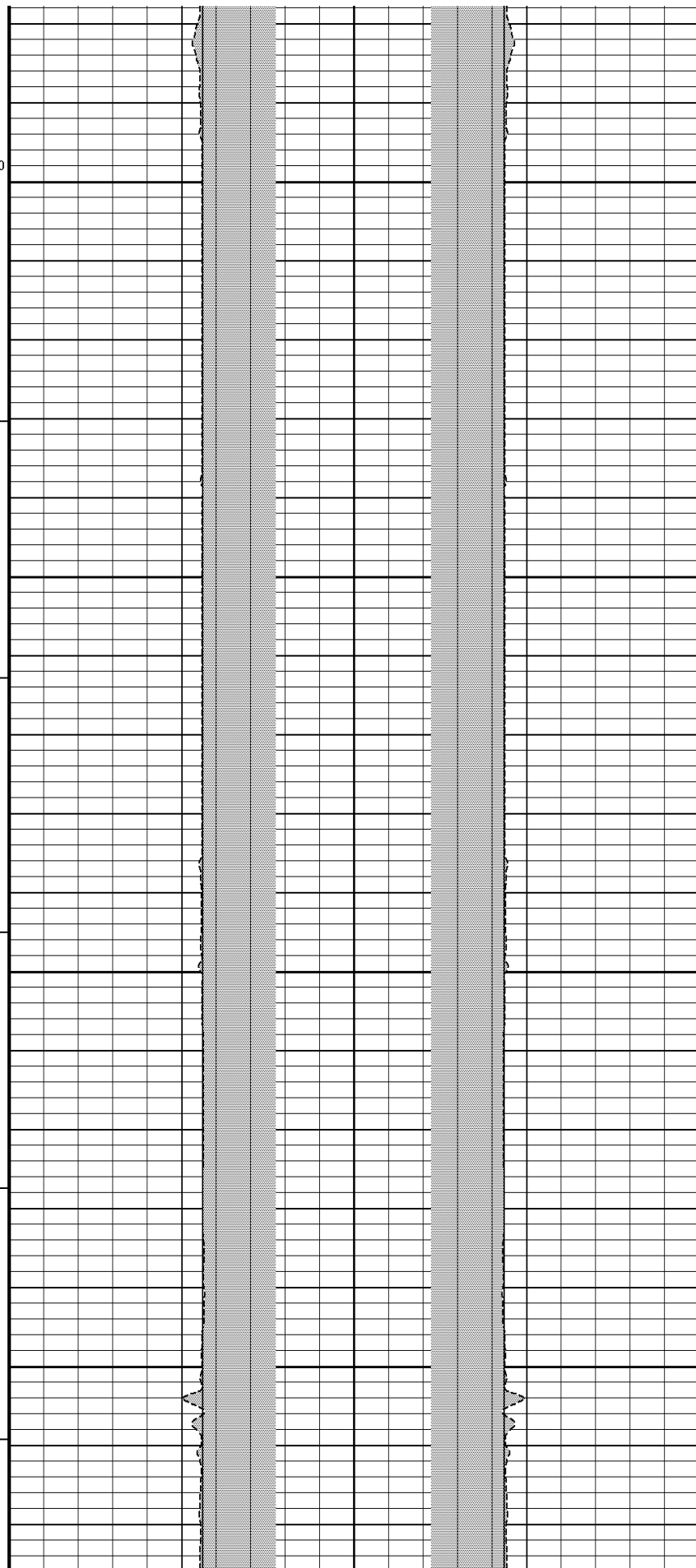
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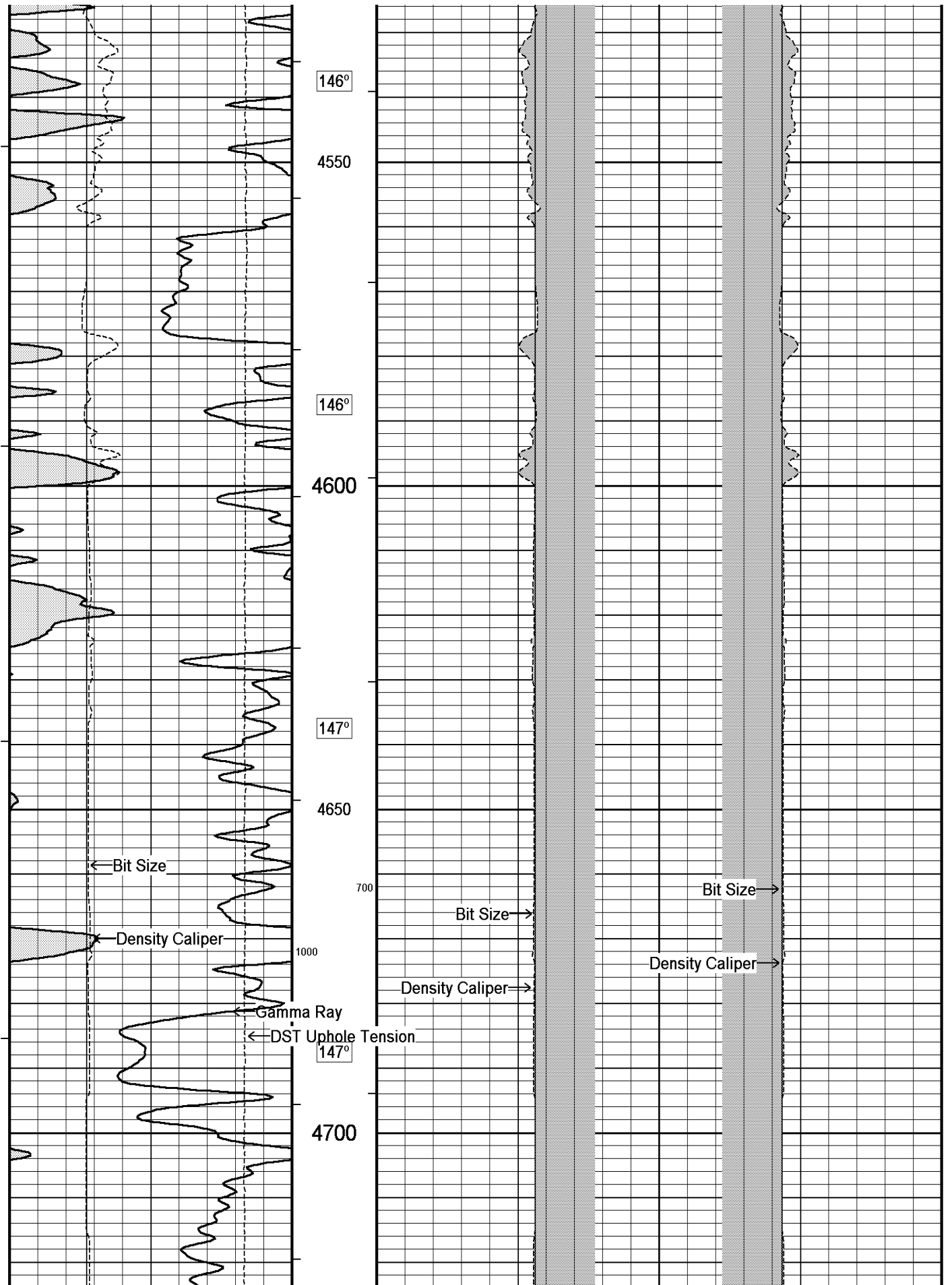
145°¹¹⁰⁰

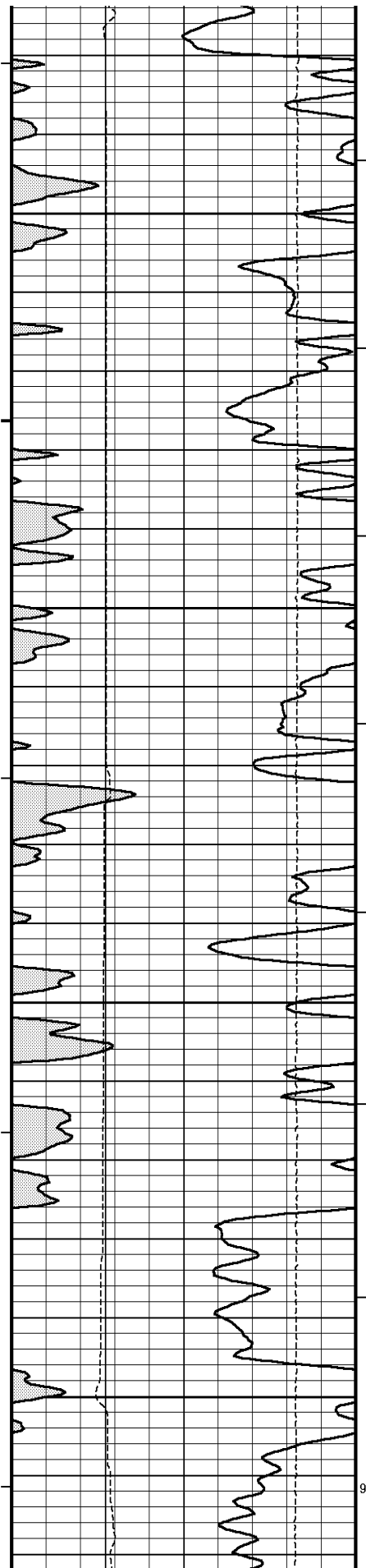
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145°

4500







148°

4750

148°

4800

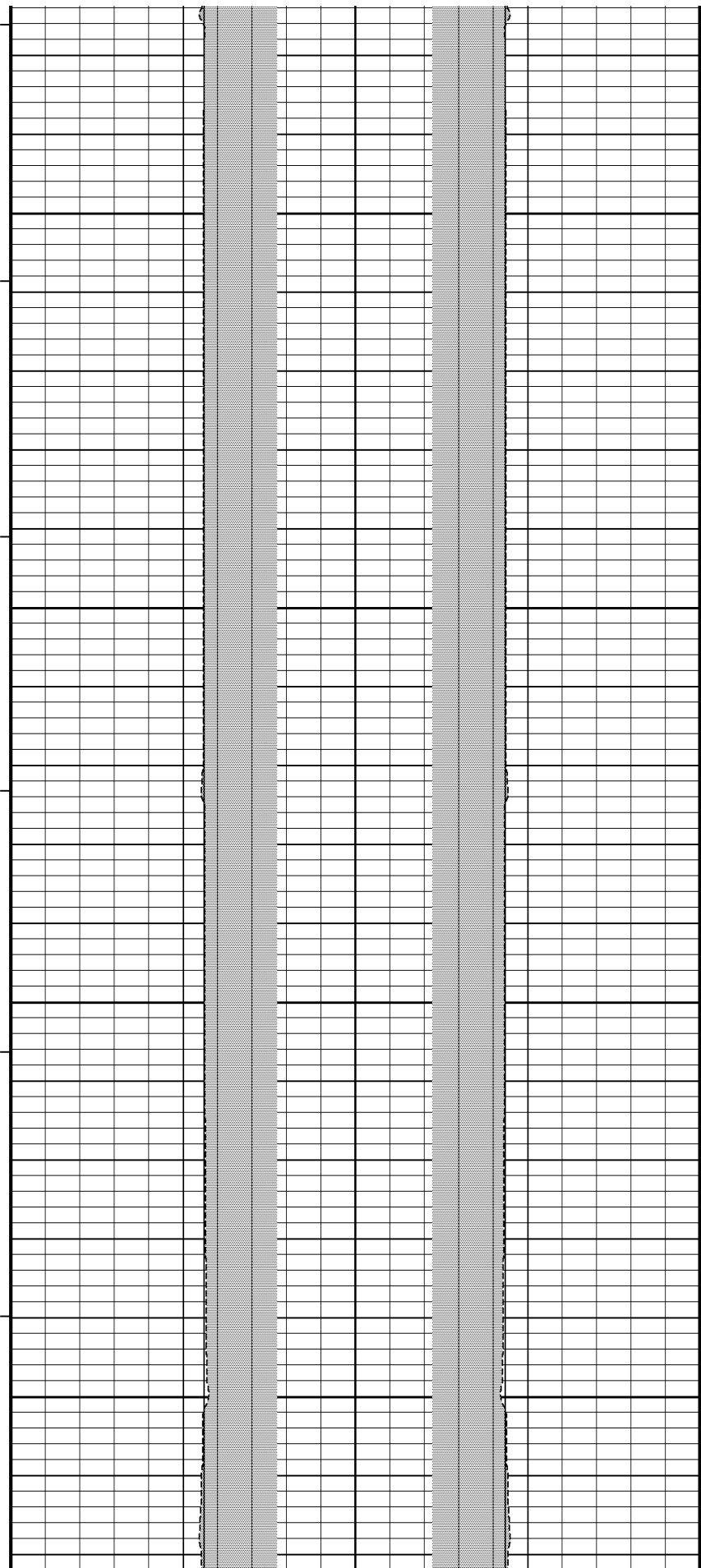
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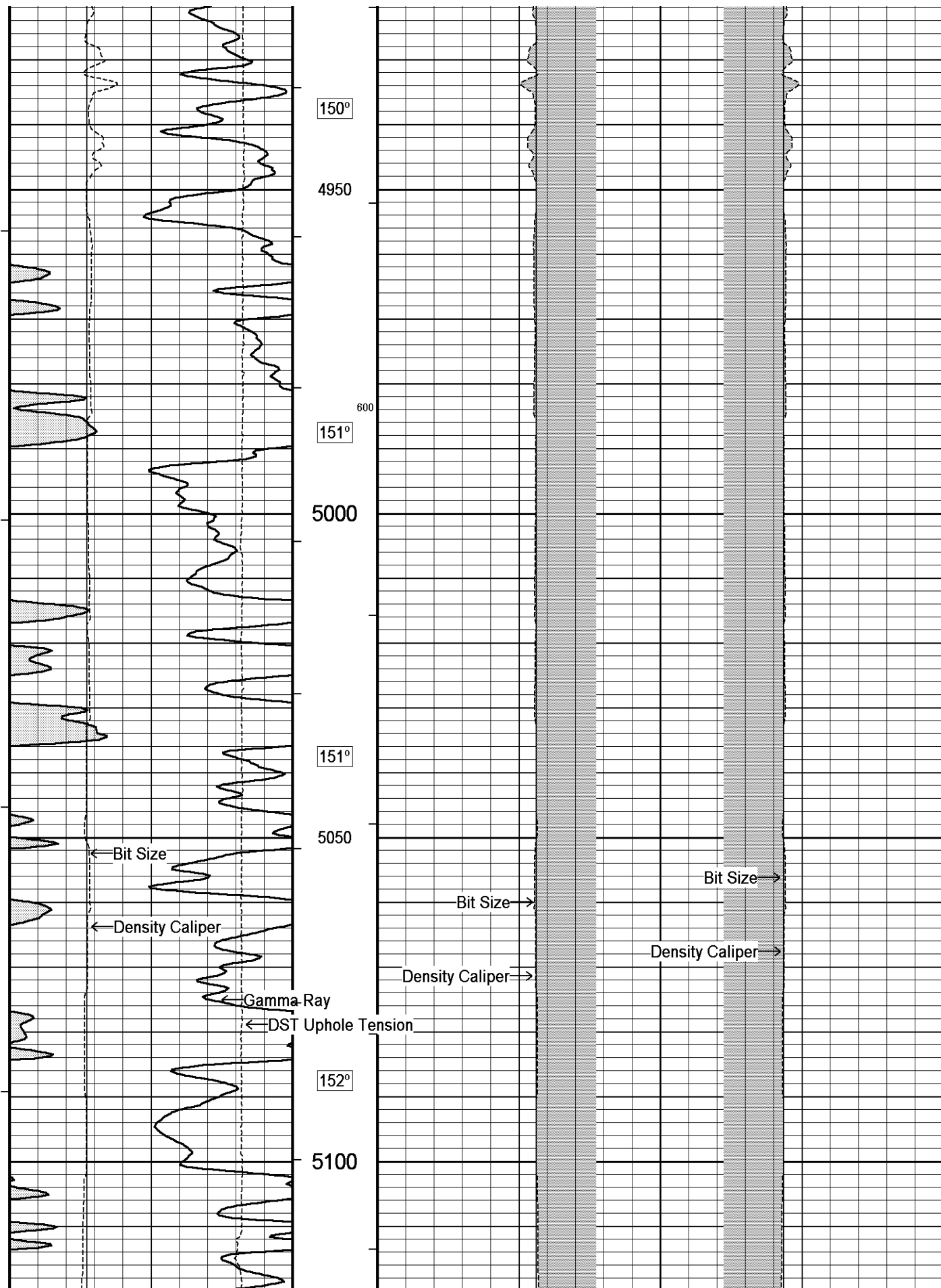
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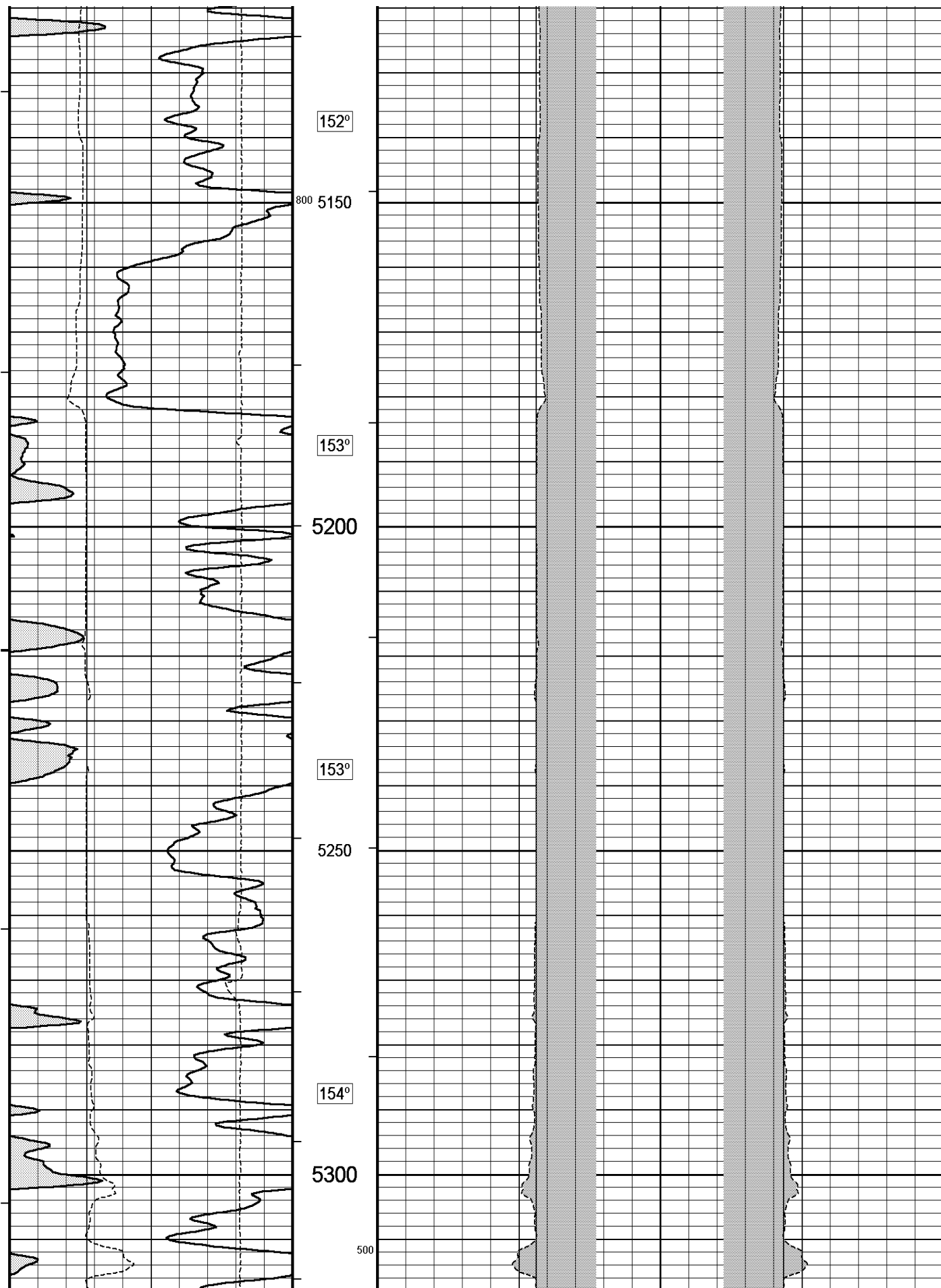
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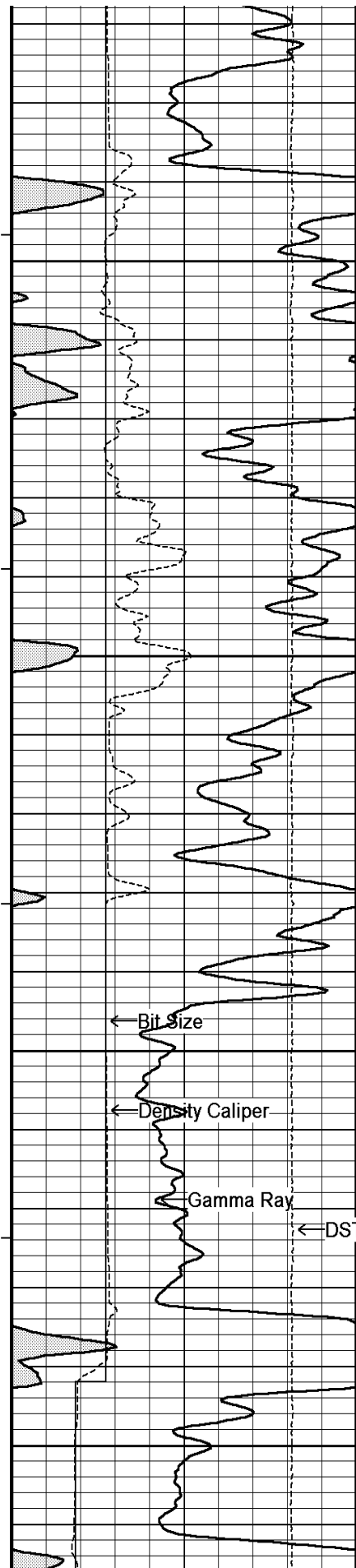
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900









155°

5350

155°

5400

156°

5450

156°

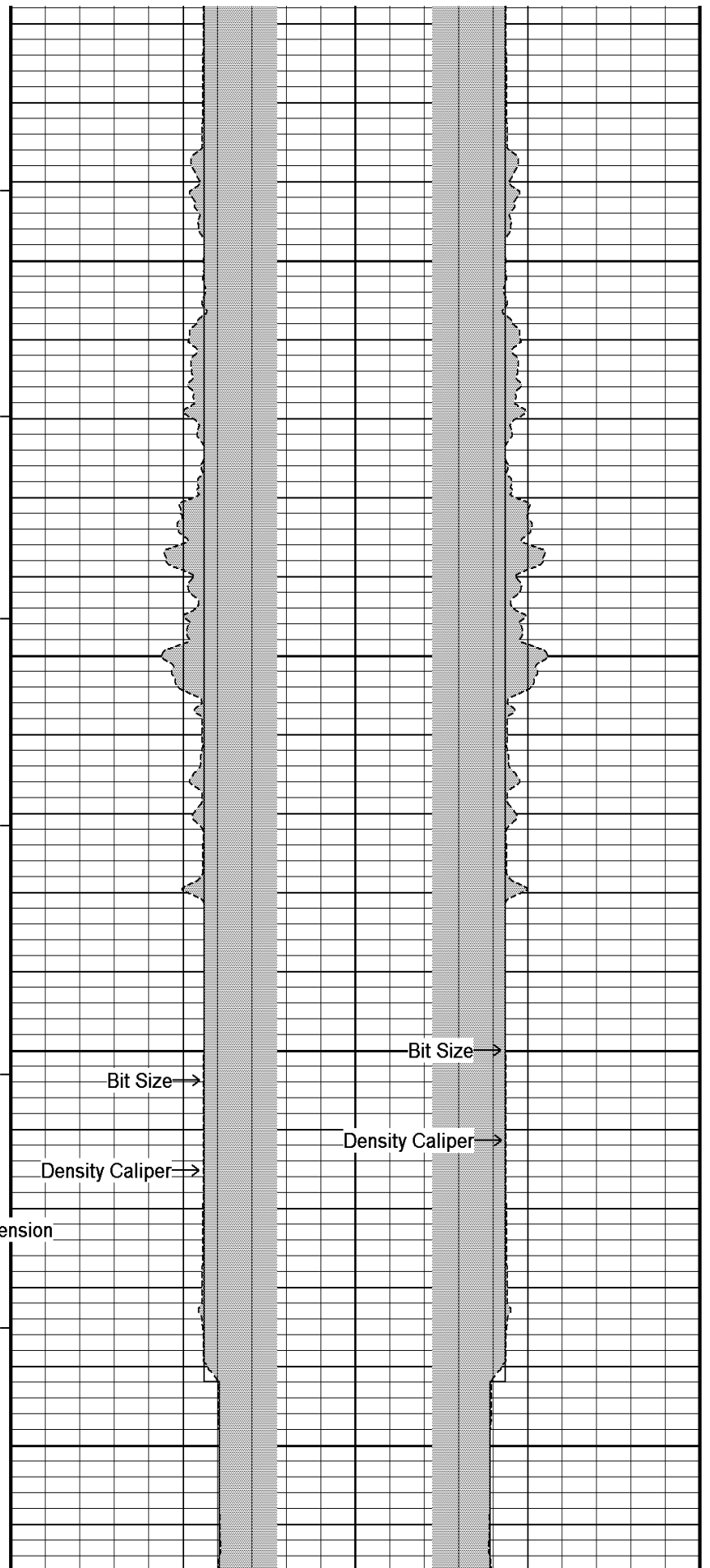
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← Bit Size

← Density Caliper

← Gamma Ray

← DST Uphole Tension

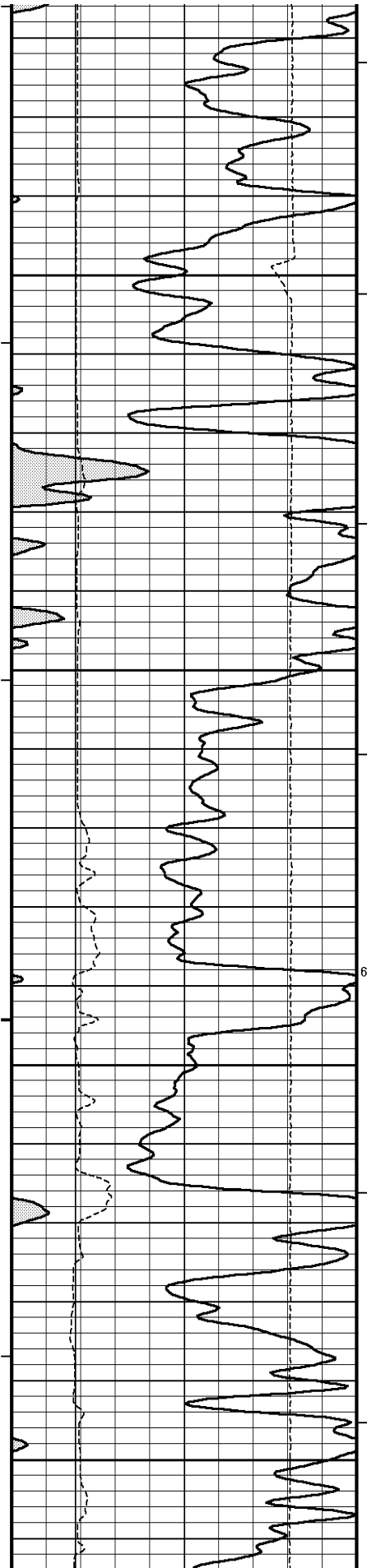


Bit Size →

Density Caliper →

Bit Size →

Density Caliper →



157°

5550

157°

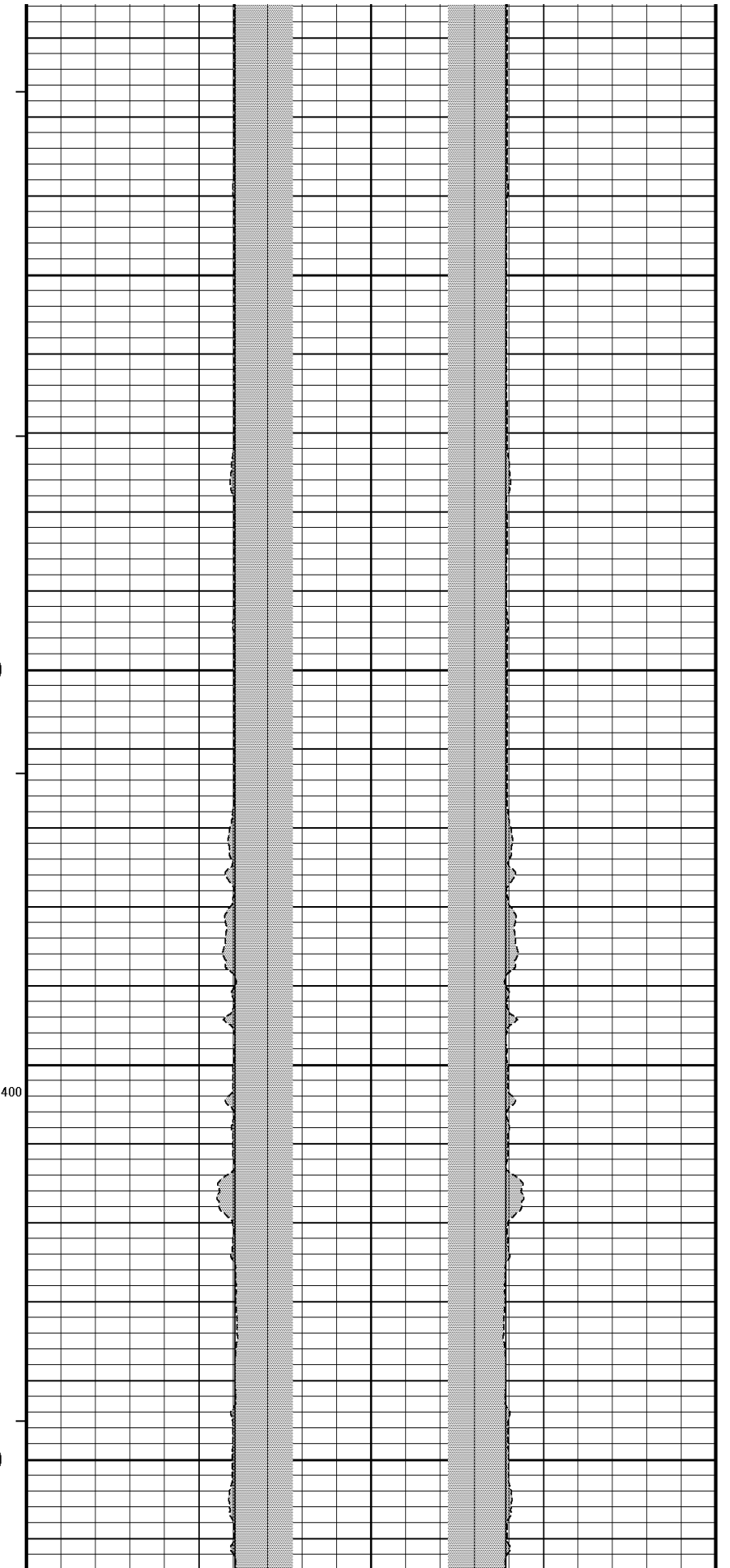
5600

158°

5650

159°

5700



157°

5550

157°

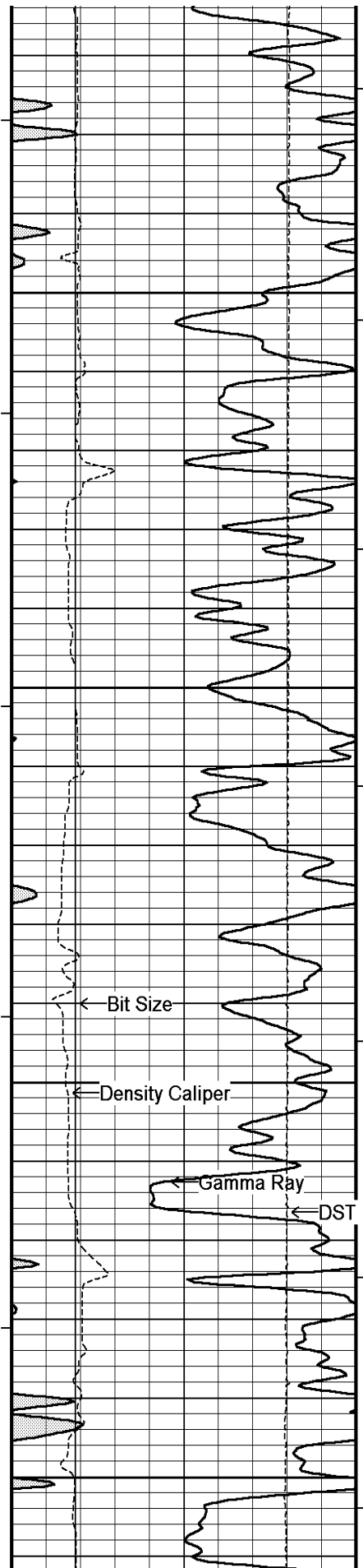
5600

158°

5650

159°

5700



159°

5750

160°

5800

161°

5850

162°

5900

← Bit Size

← Density Caliper

← Gamma Ray

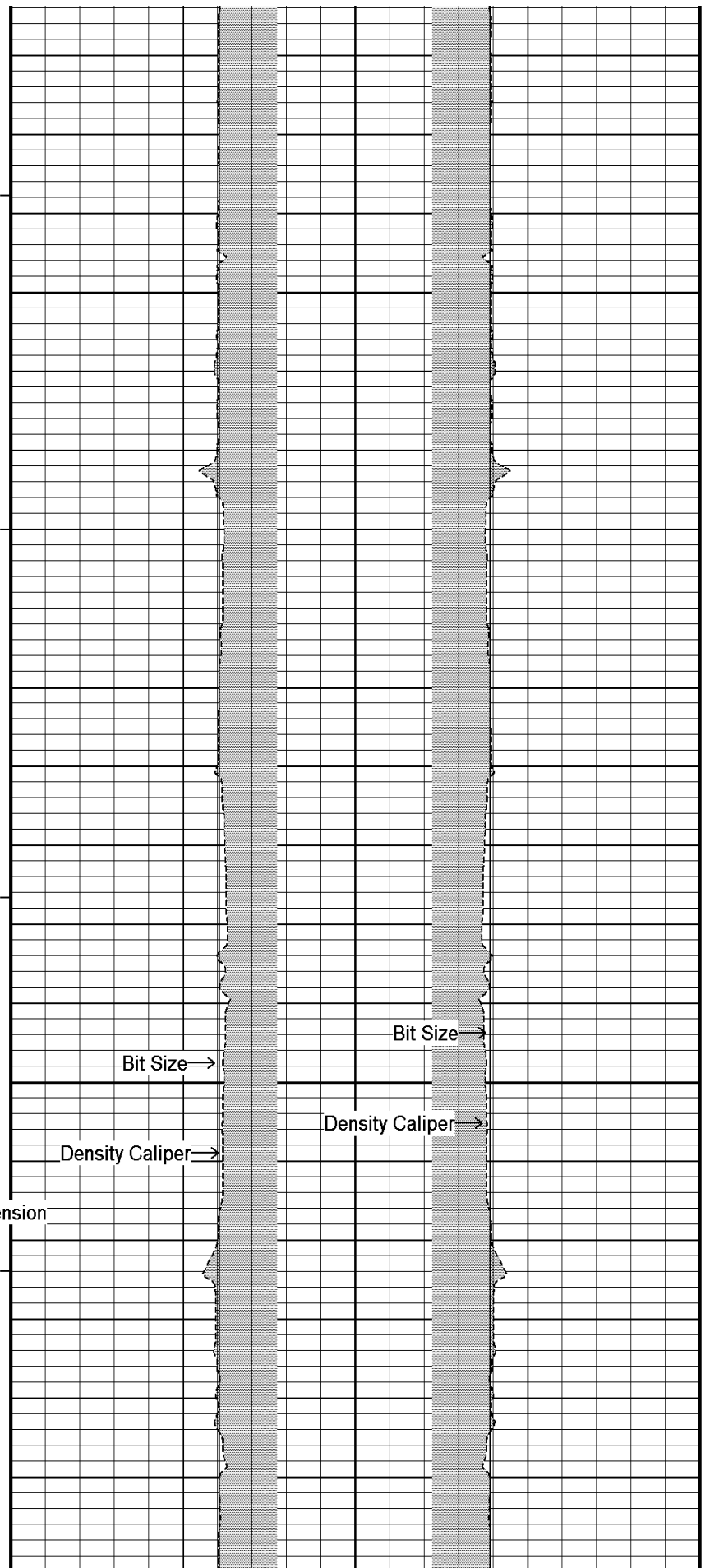
← DST Uphole Tension

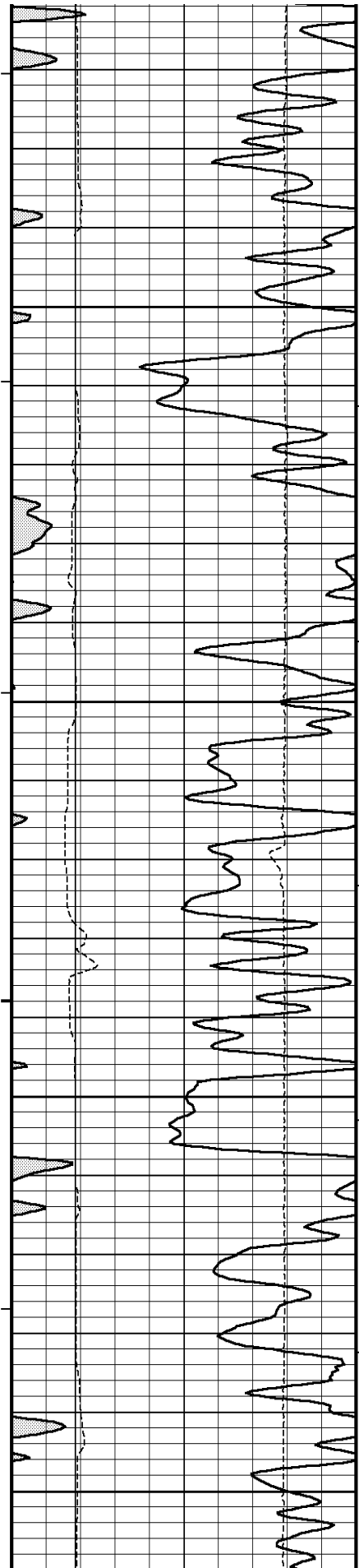
Bit Size →

Density Caliper →

Bit Size →

Density Caliper →





500

163°

5950

163°

6000

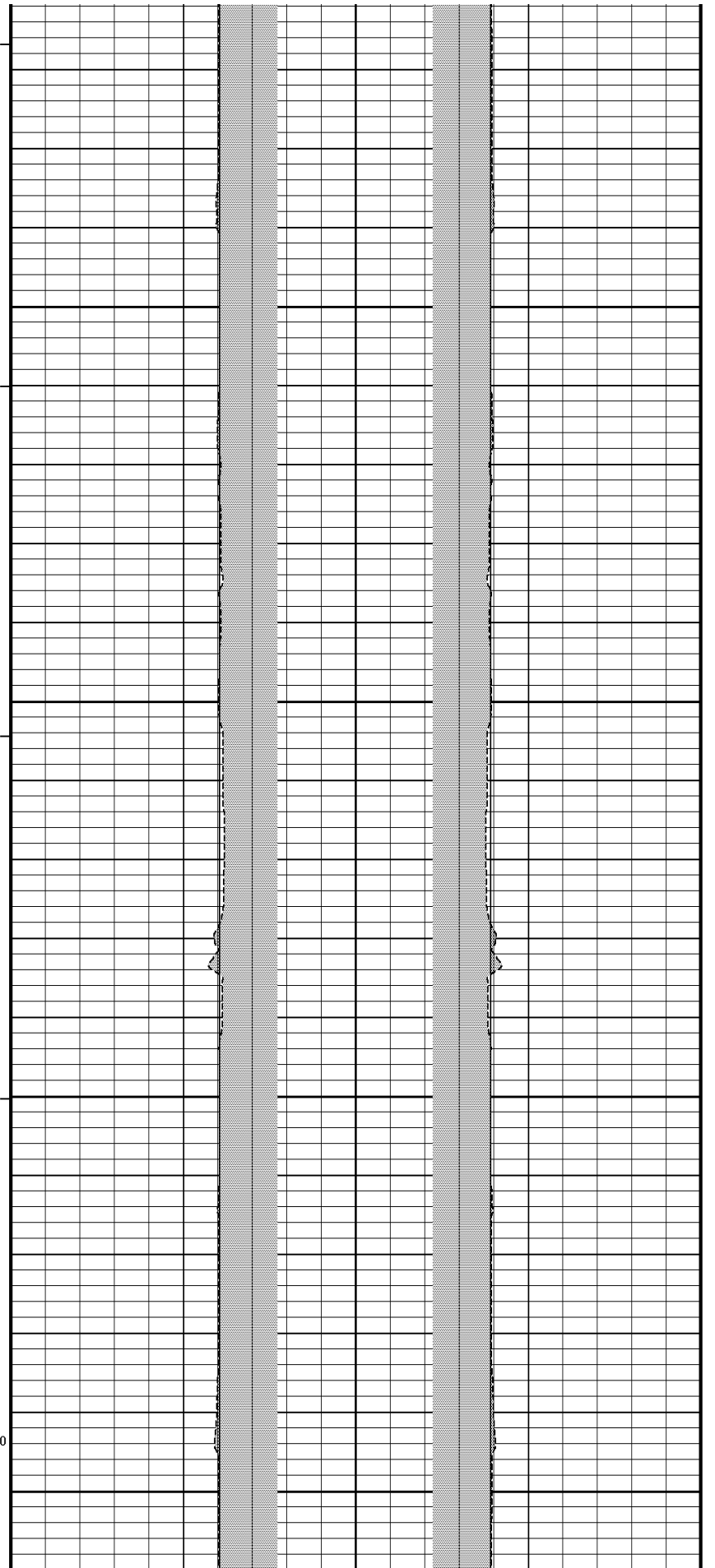
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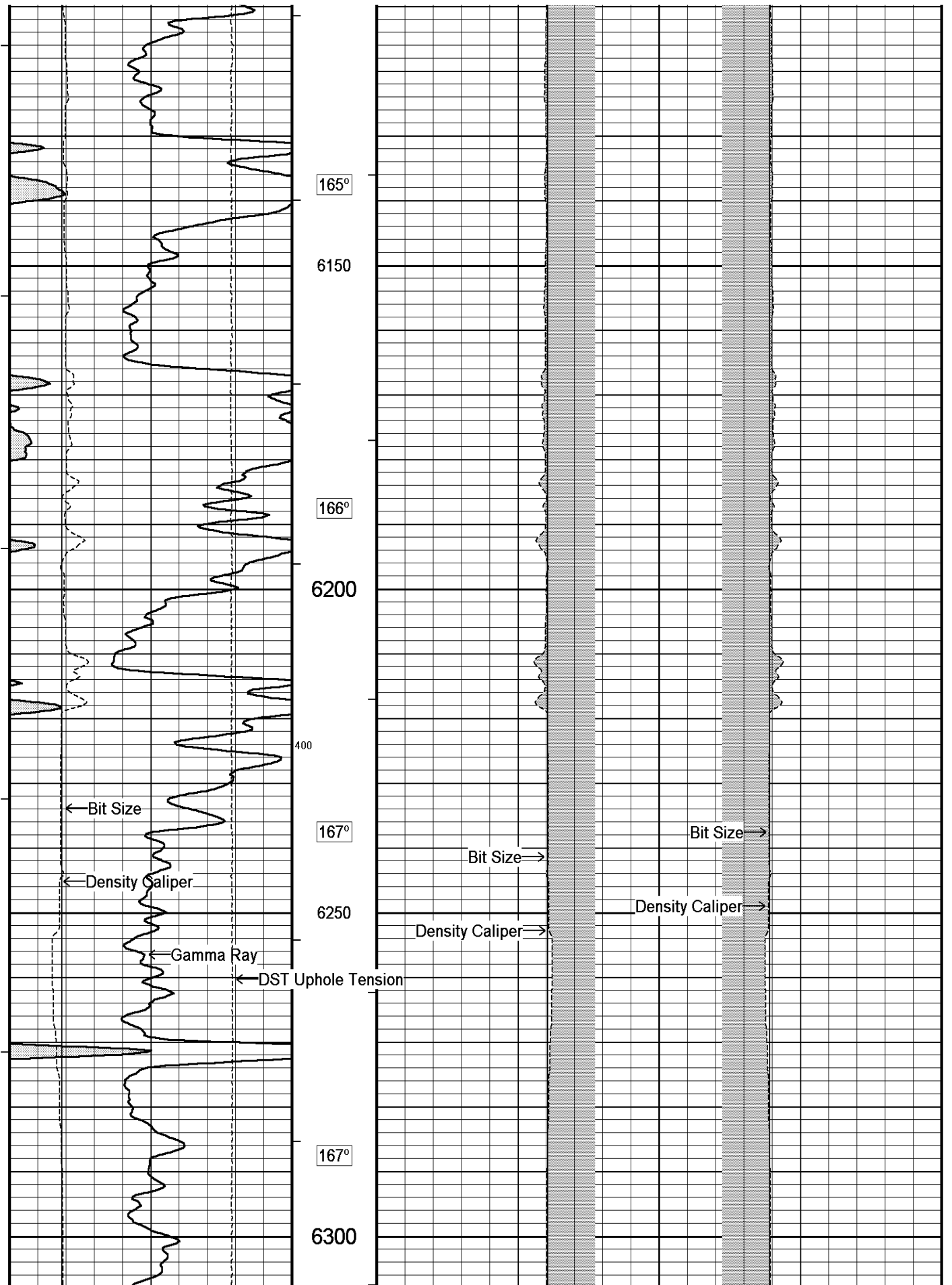
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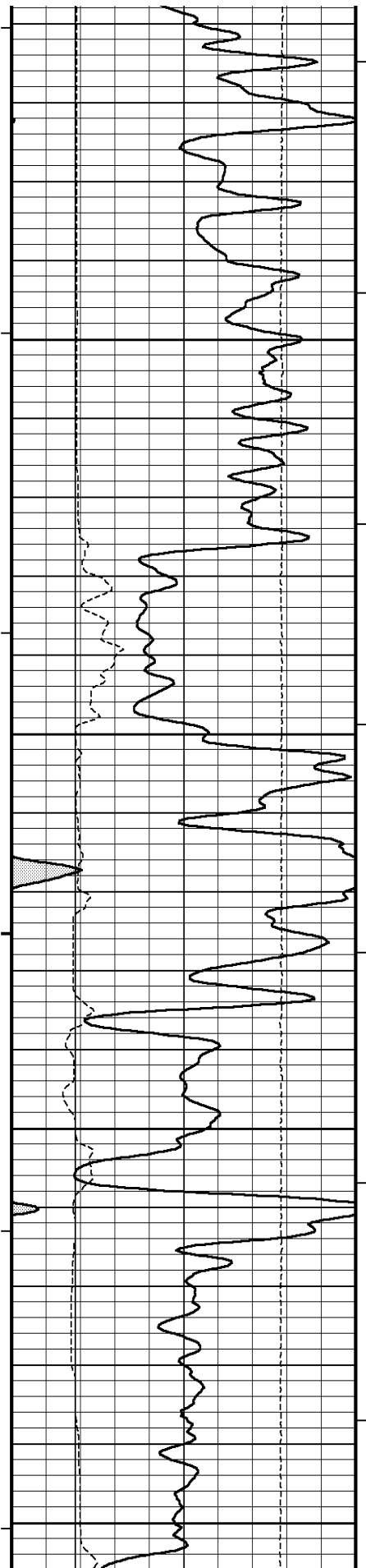
165°

300

6100







168°

6350

168°

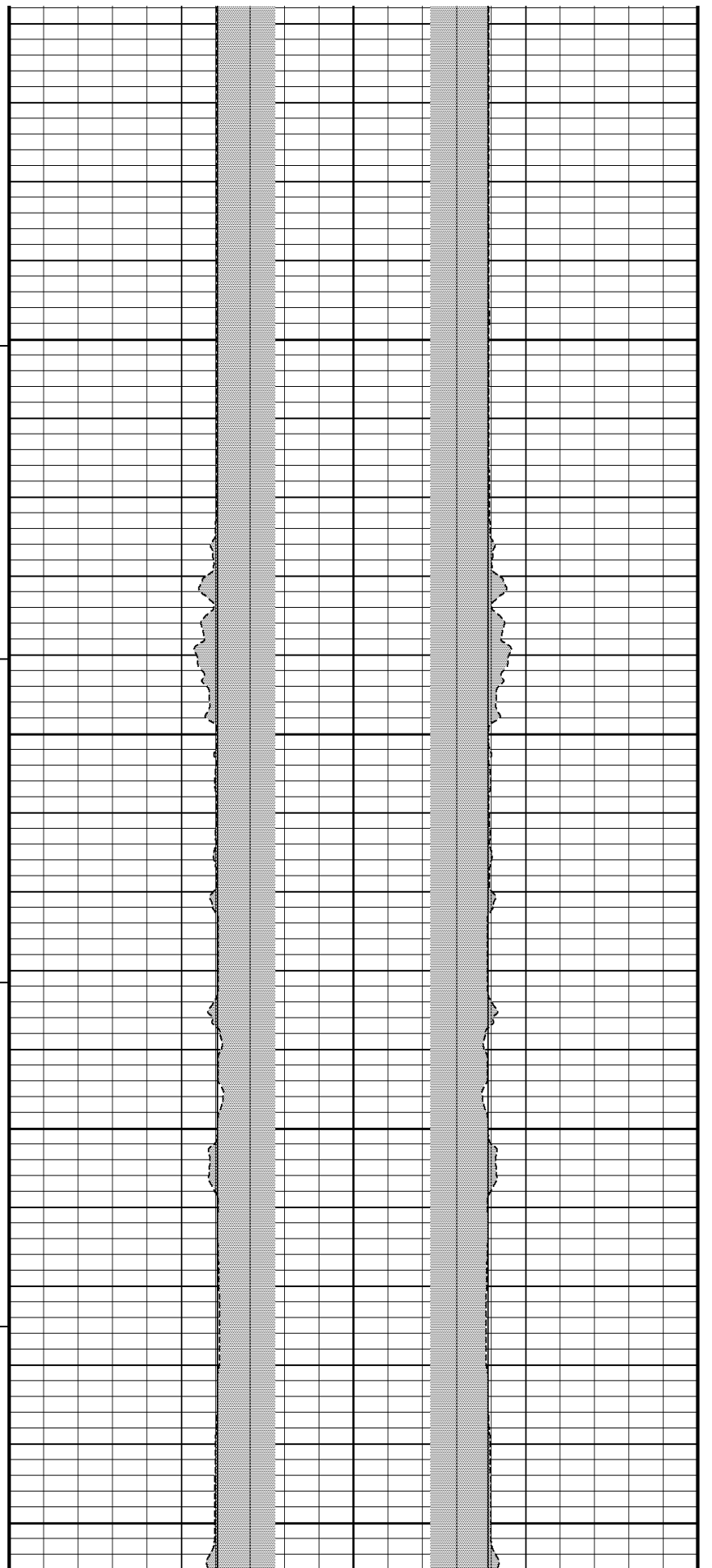
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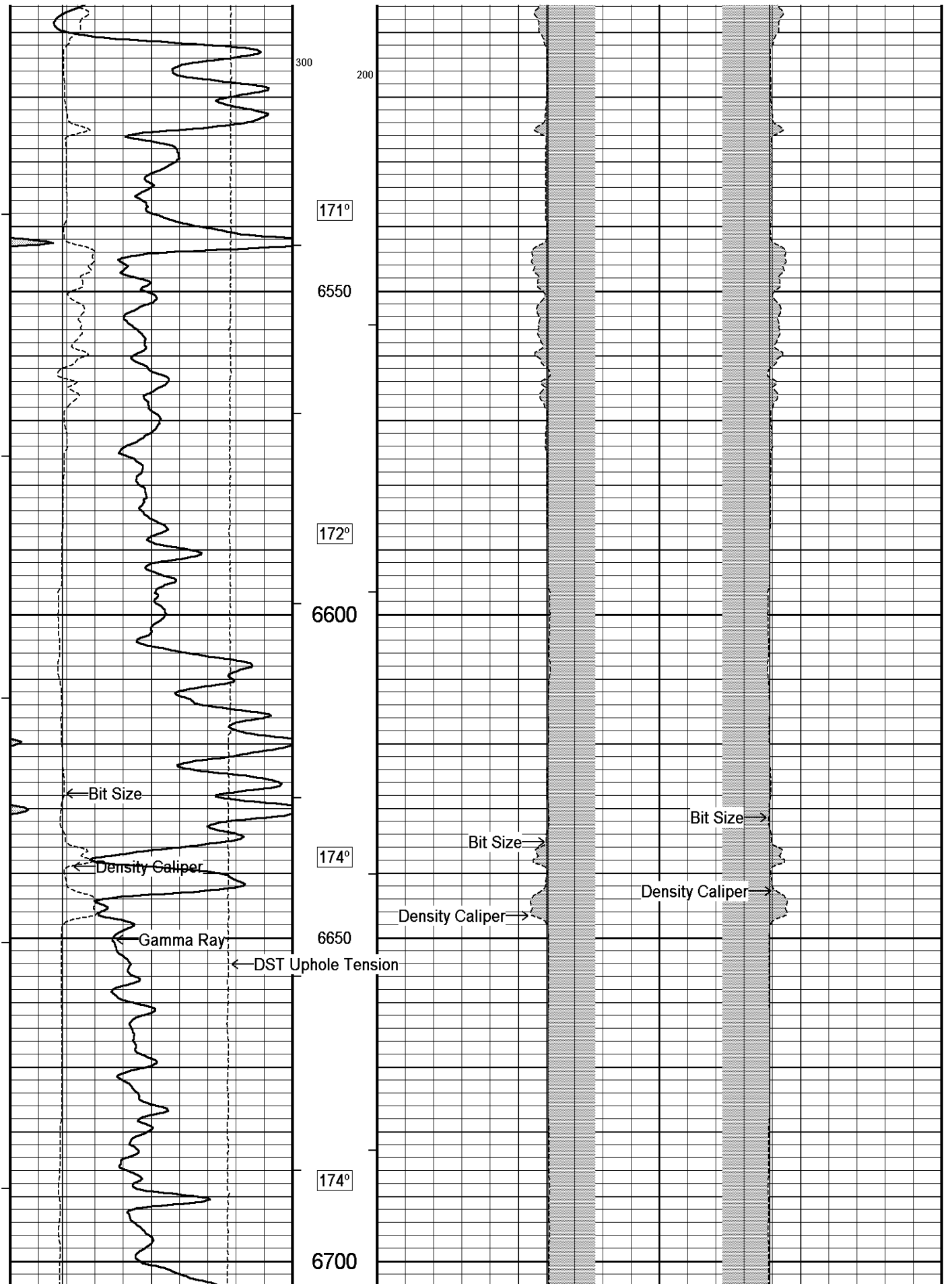
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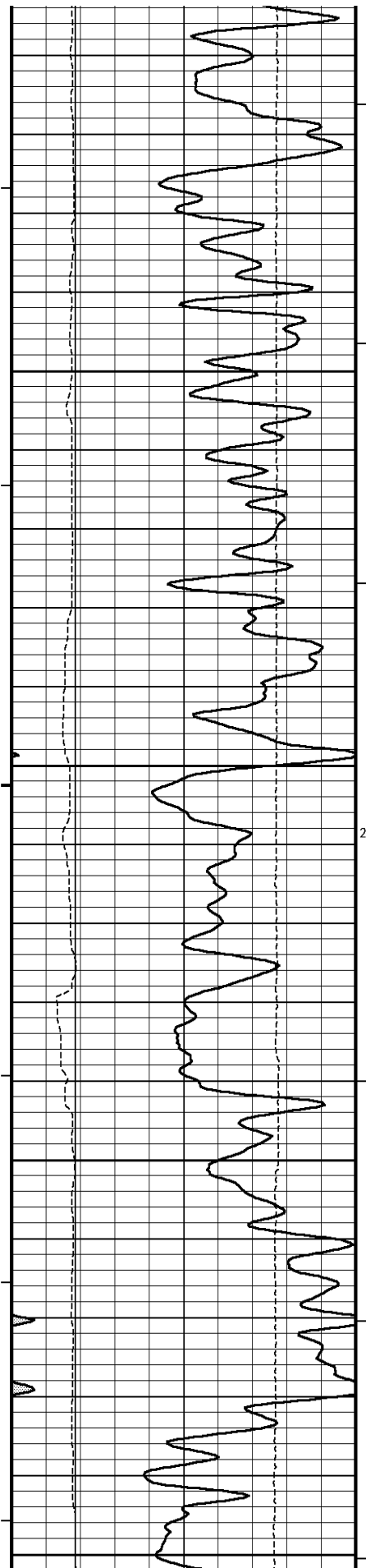
6450

170°

6500







174°

6750

175°

6800

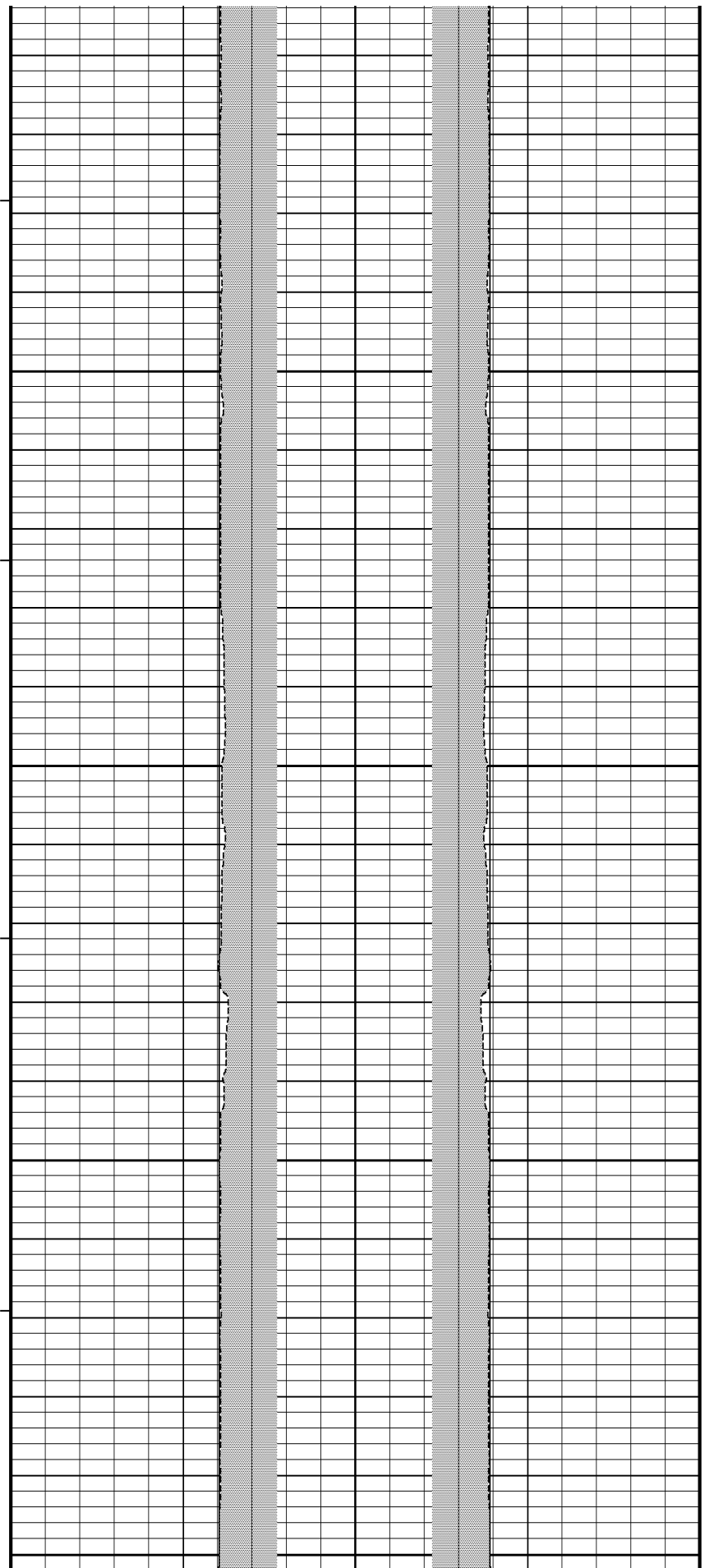
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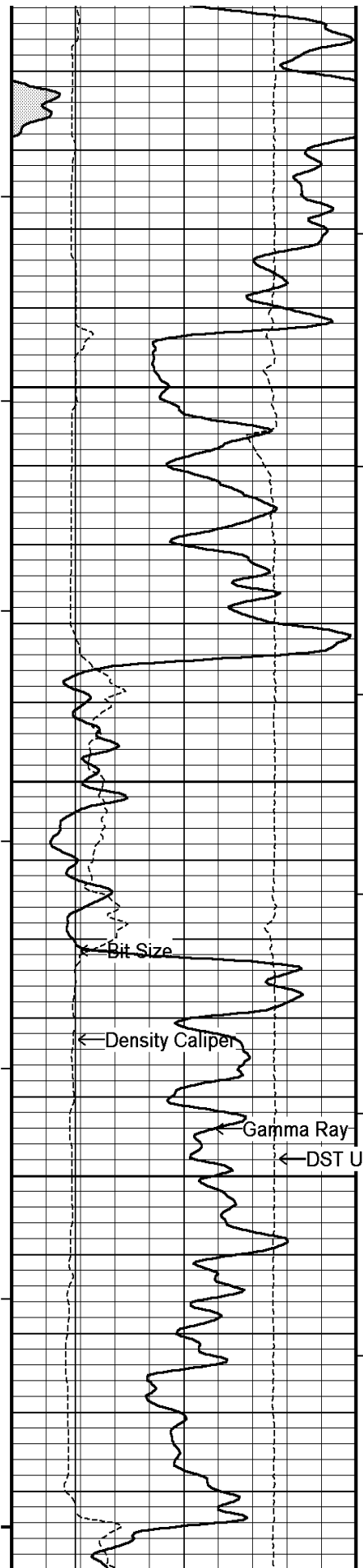
175°

6850

175°

6900





175°

6950

100

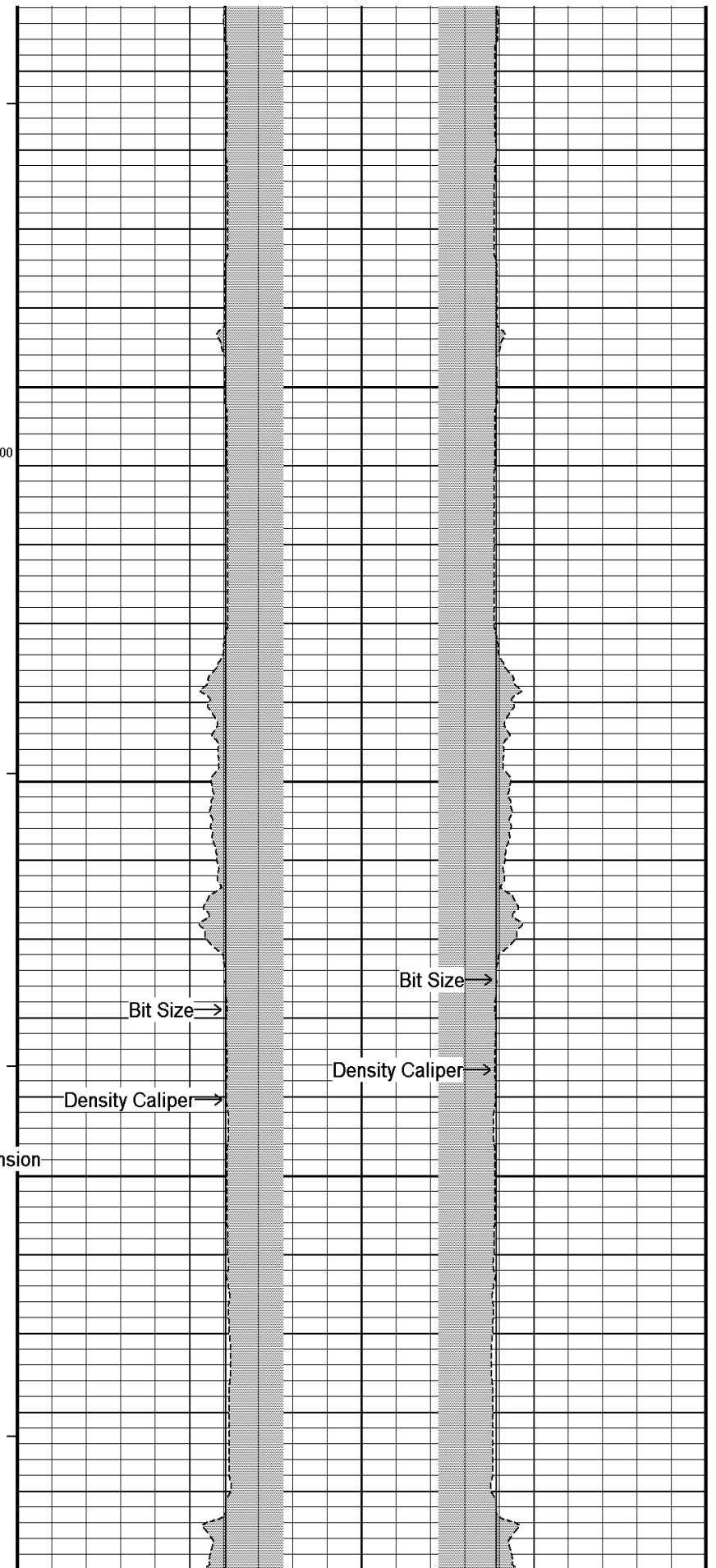
175°

7000

180°

182°

7100

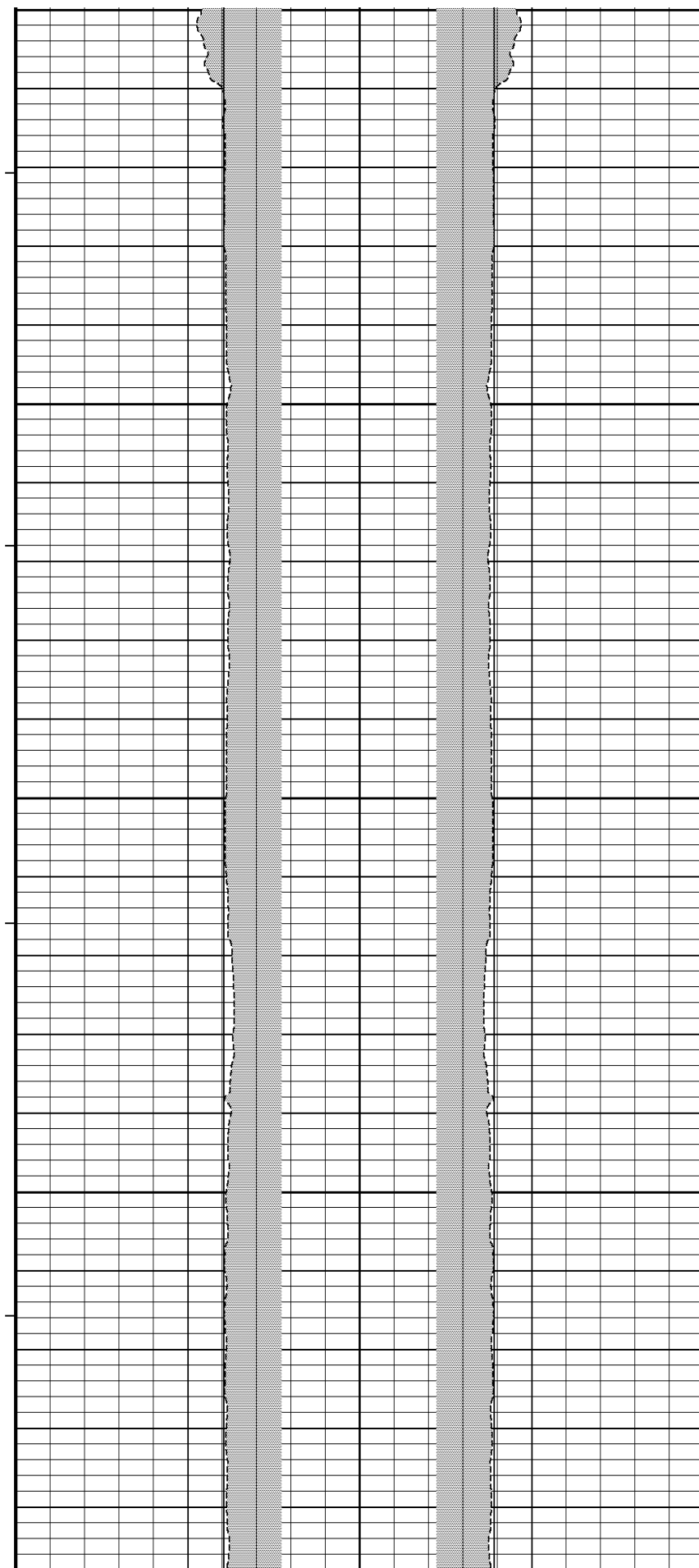
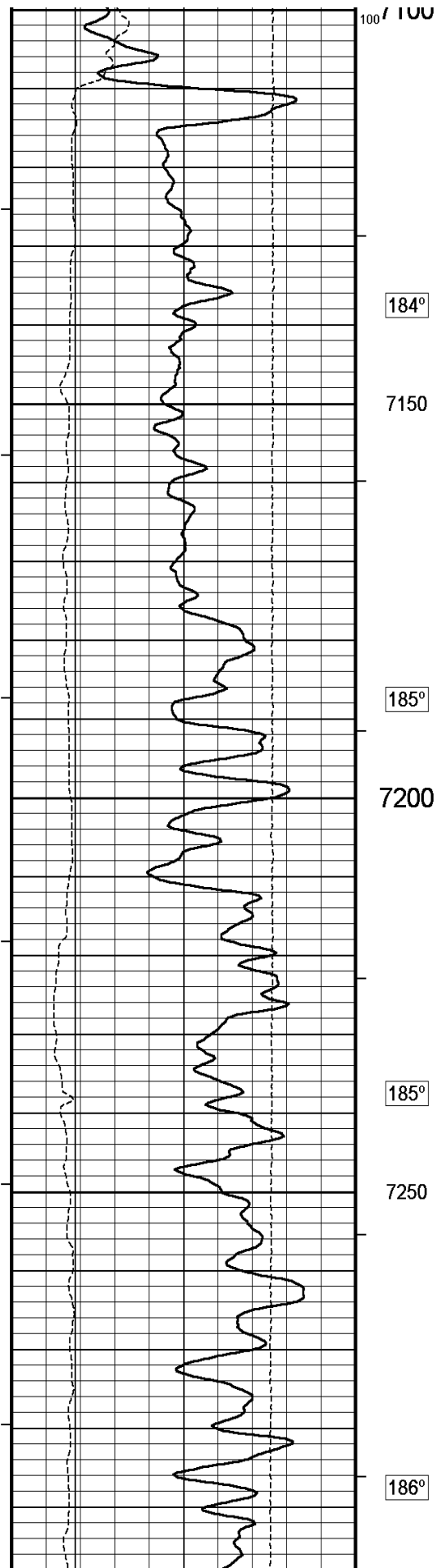


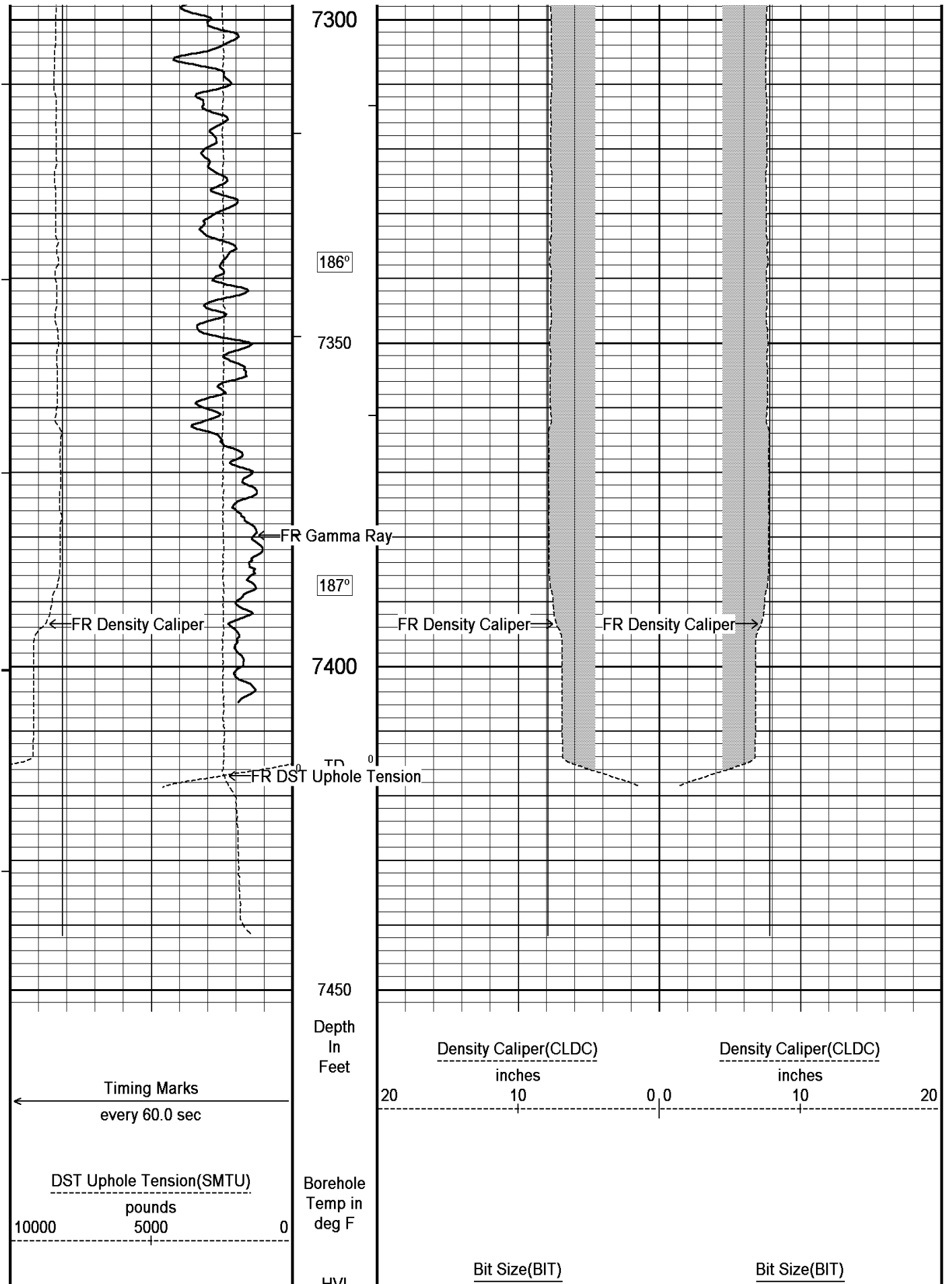
Bit Size →

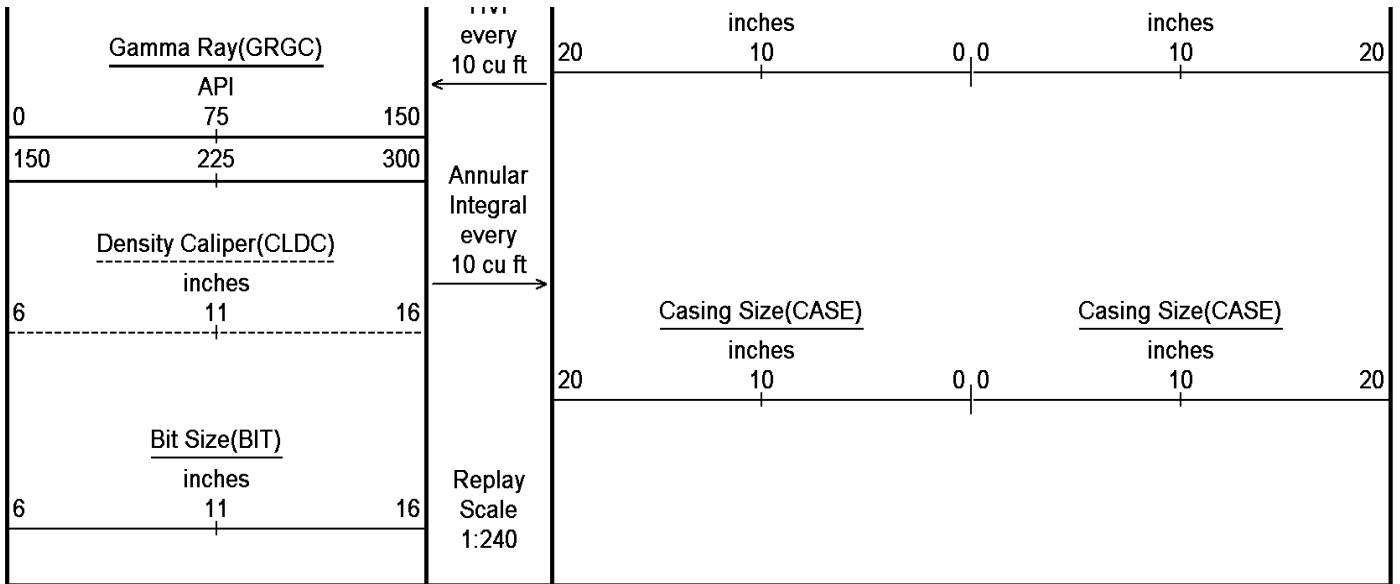
Bit Size →

Density Caliper →

Density Caliper →







Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 15-JUN-2011 02:32

Filename: C:\Minimus\Logs\Bill Barrett\GGU Daley 24D-19-691\MS5.dta

Recorded on 14-JUN-2011 23:42

System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186



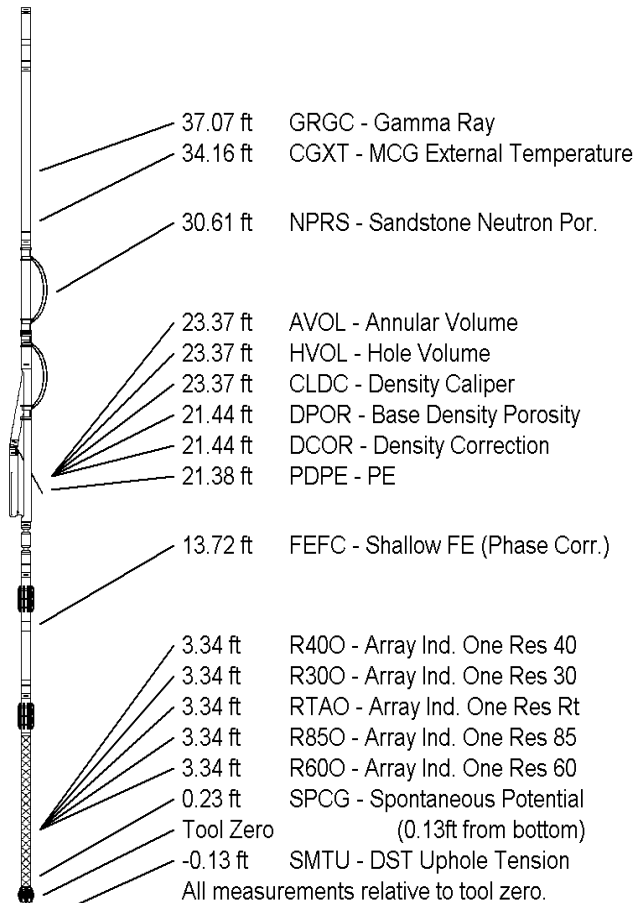
5 INCH MAIN LOG



DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Bill Barrett\GGU Daley 24D-19-691\MS5.dta

- SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 508 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in
- Compact Comms Gamma
MCG-C 145 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in
- Compact Neutron
MDN-B.A 191 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in
- Compact Density/Caliper
MPD-C.A 215 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in
- SKJ-E.B Compact Knuckle Joint
SKJ-E.B 529 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in
- Compact Focussed Electric
MFE-B.A 220 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in
- Compact Induction
MAI-B.J 362 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in
- Total Length: 44.66 ft Weight: 348.3 lb



COMPANY BILL BARRETT CORPORATION
 WELL GGU DALEY 24D-19-691
 FIELD GIBSON GULCH
 PROVINCE/COUNTY GARFIELD
 COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	5847.00	feet	First Reading	7394.00	
Elevation Drill Floor	5846.00	feet	Depth Driller	7420.00	feet
Elevation Ground Level	5824.00	feet	Depth Logger	7417.00	feet



Weatherford[®]

HOLE VOLUME
CALIPER LOG

