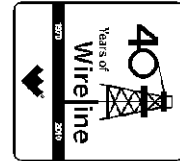




Weatherford[®]

**HOLE VOLUME
CALIPER LOG**

COMPANY **BILL BARRETT CORPORATION**
WELL **KAUFMAN 13B-25-692**
FIELD **MAMM CREEK**
PROVINCE/COUNTY **GARFIELD**
COUNTRY/STATE **U.S.A. / COLORADO**
LOCATION **SHL: 2185' FSL & 1609' FWL**
BHL: 1770' FSL & 644' FWL



SEC	TWP	RGE	Other Services	Elevations:
25	6S	92W	MPD/MDN	KB 5945.00
API Number	05-045-19655	MA/MI/FE		DF 5944.00
Permit Number				GL 5922.00
Permanent Datum G.L., Elevation 5922 feet				
Log Measured From KB				
Drilling Measured From K.B. @ 23 FT.				

Date	27-JUNE-2011	
Run Number	ONE	
Depth Driller	7525.00	feet
Depth Logger	7140.00	feet
First Reading	7117.00	
Last Reading	803.00	
Casing Driller	805.00	feet
Casing Logger	803.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.50 lb/USg	44.00 CP
PH / Fluid Loss	9.60	6.00 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	2.20 @ 99.0	ohm-m
Rmf @ Measured Temp	1.76 @ 99.0	ohm-m
Rmc @ Measured Temp	2.64 @ 99.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	1.28 @ 173.0	ohm-m
Time Since Circulation	5 HOURS	
Max Recorded Temp	173.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13173	GD JCT
Recorded By	D. KUNTZ	
Witnessed By	C. CROWTON	N. TAYLOR

BOREHOLE RECORD

Last Edited: 28-JUN-2011 02:13

Bit Size inches	Depth From feet	Depth To feet
8.750	803.00	5483.00
7.880	5483.00	7525.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	803.00	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.
ONE 0.5 INCH STANDOFF 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.

BRIDGED OFF AT 7150 FEET AND PULLED 1000 LBS OVER REGULAR TENSION. LOGGED OUT AS PER CUSTOMERS REQUEST.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 9.09" (9 5/8", 36 LB/FT CASING).

8.75 INCH BIT CHANGE AT 5483 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2750 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2060 CU.FT.

ENGINEER(S): D. KUNTZ, N. TAYLOR

OPERATOR(S): R. SYERS, K. BOBLITT

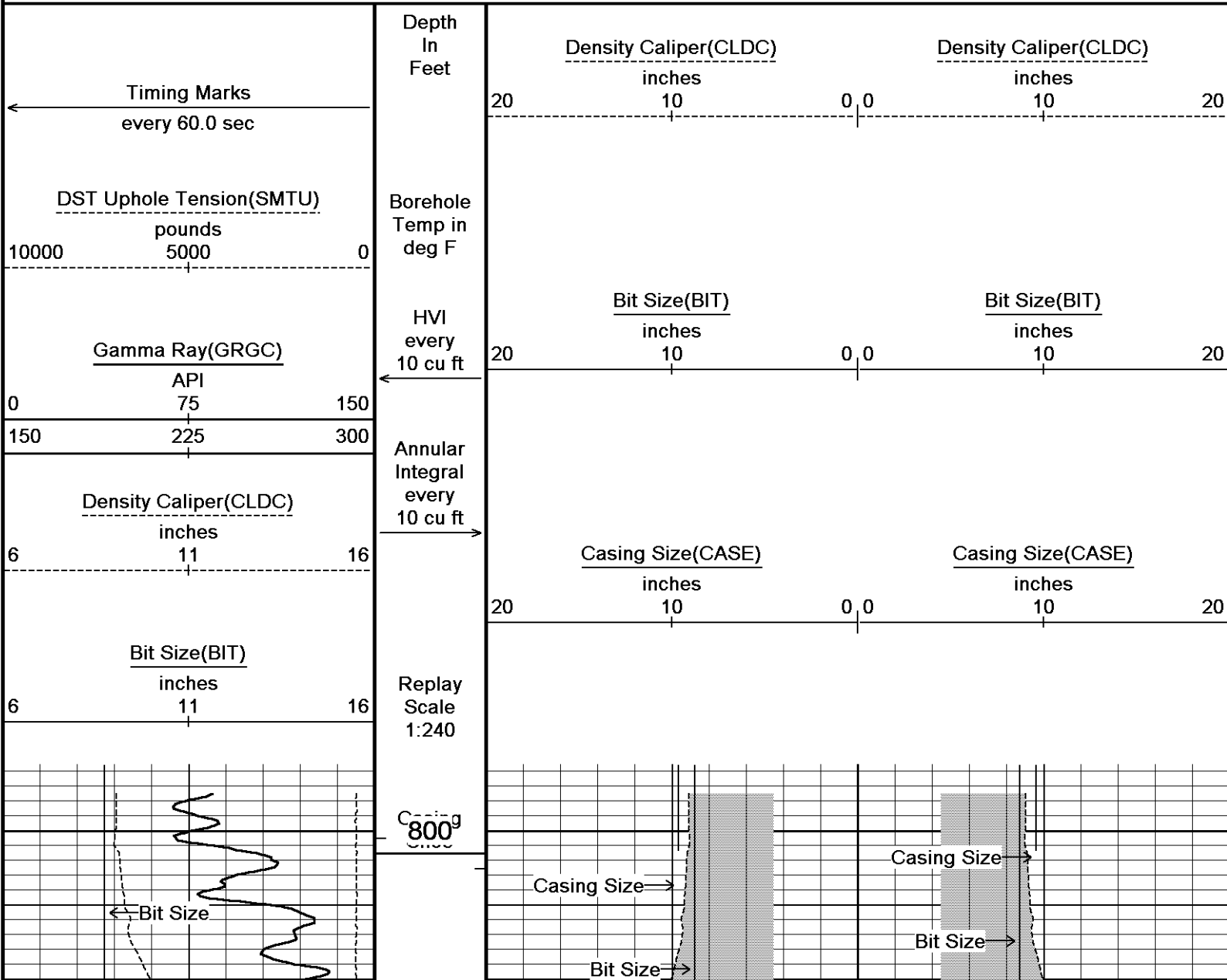
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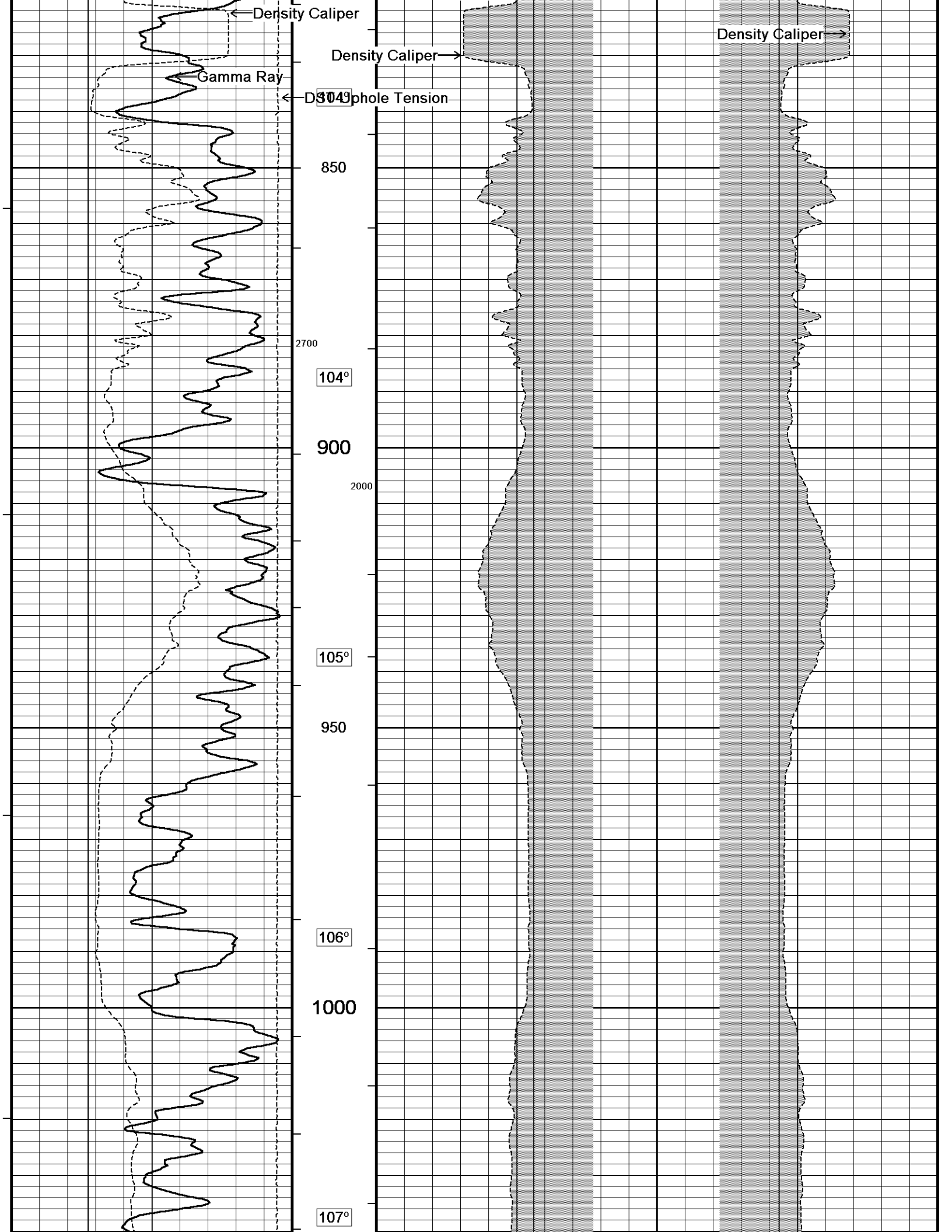
RIG: PATTERSON #307

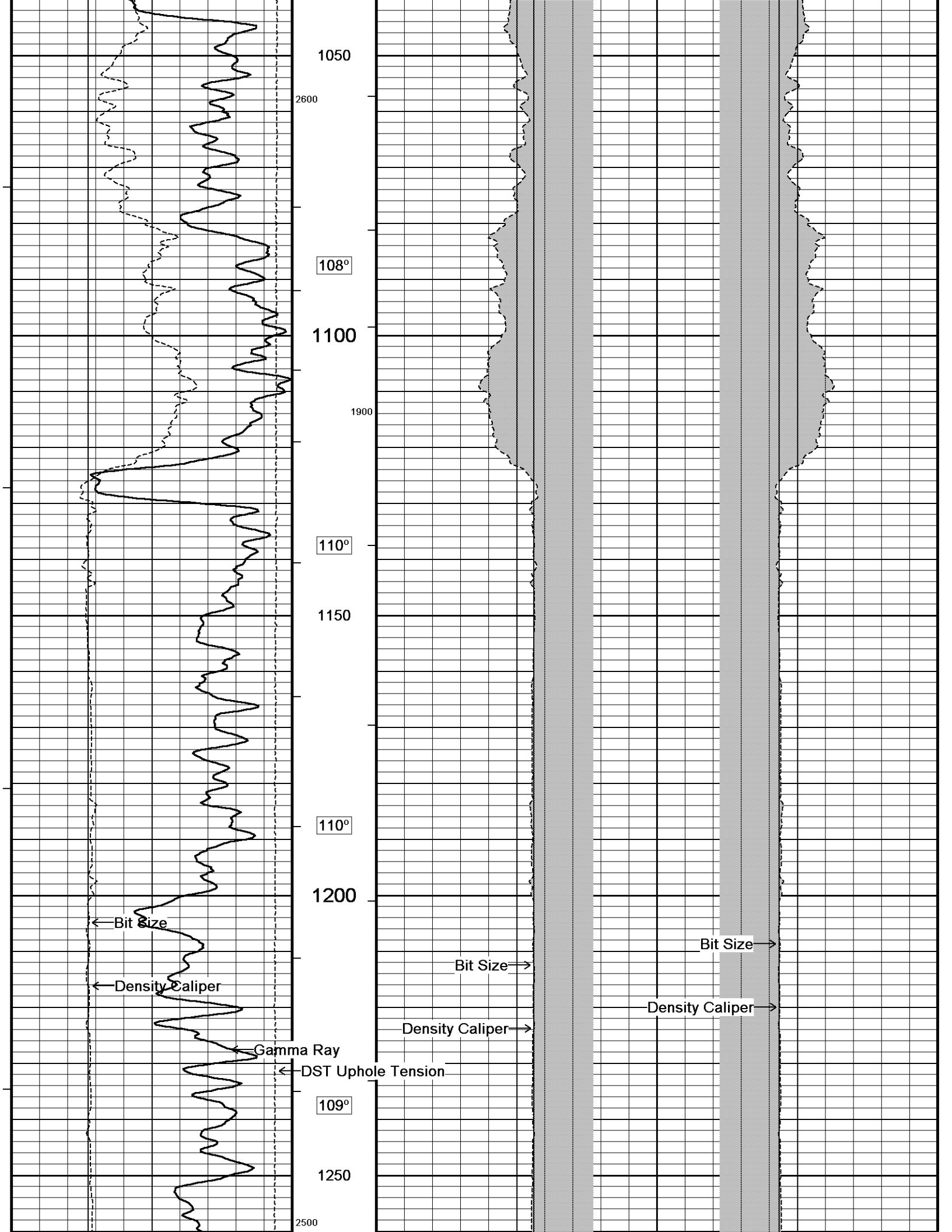
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

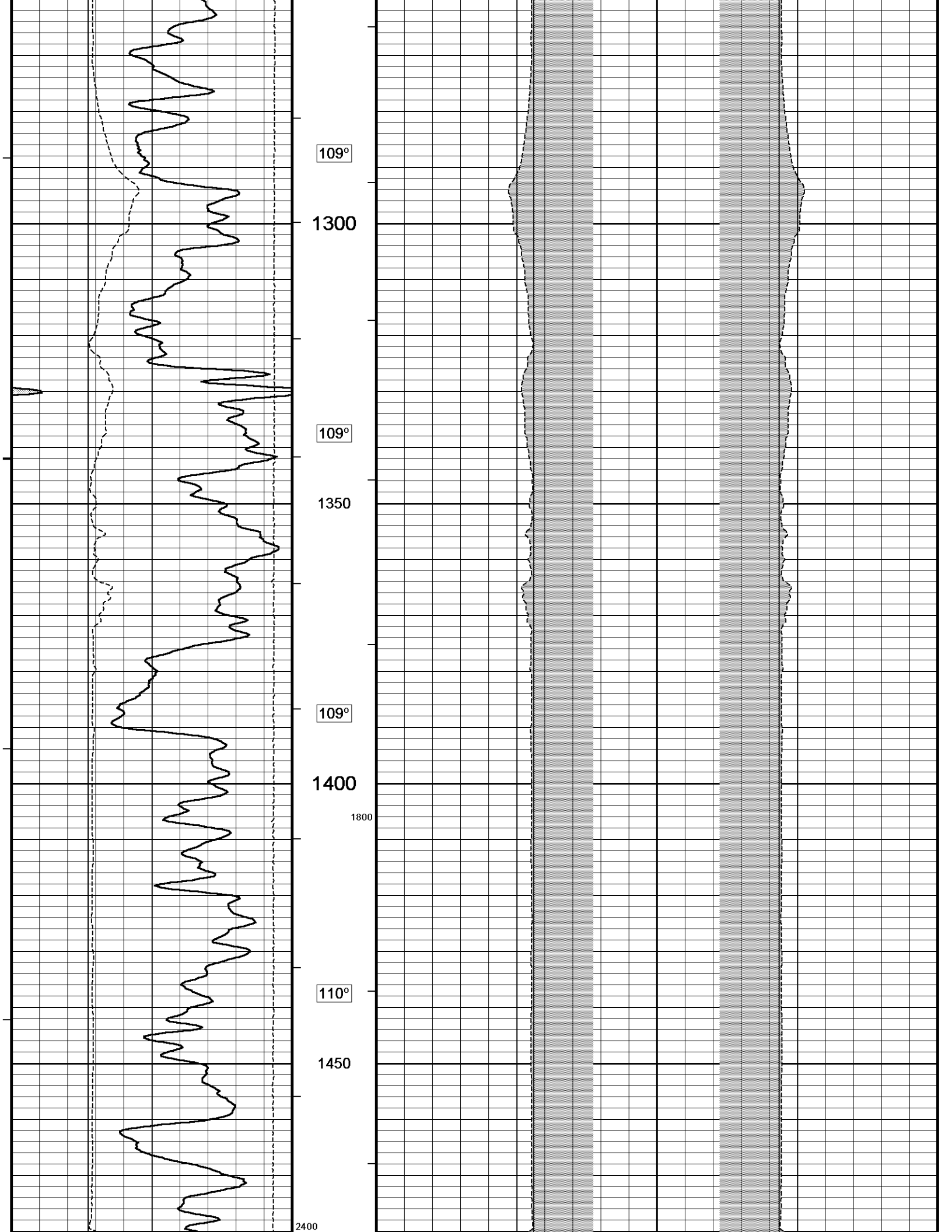
5 INCH MAIN LOG

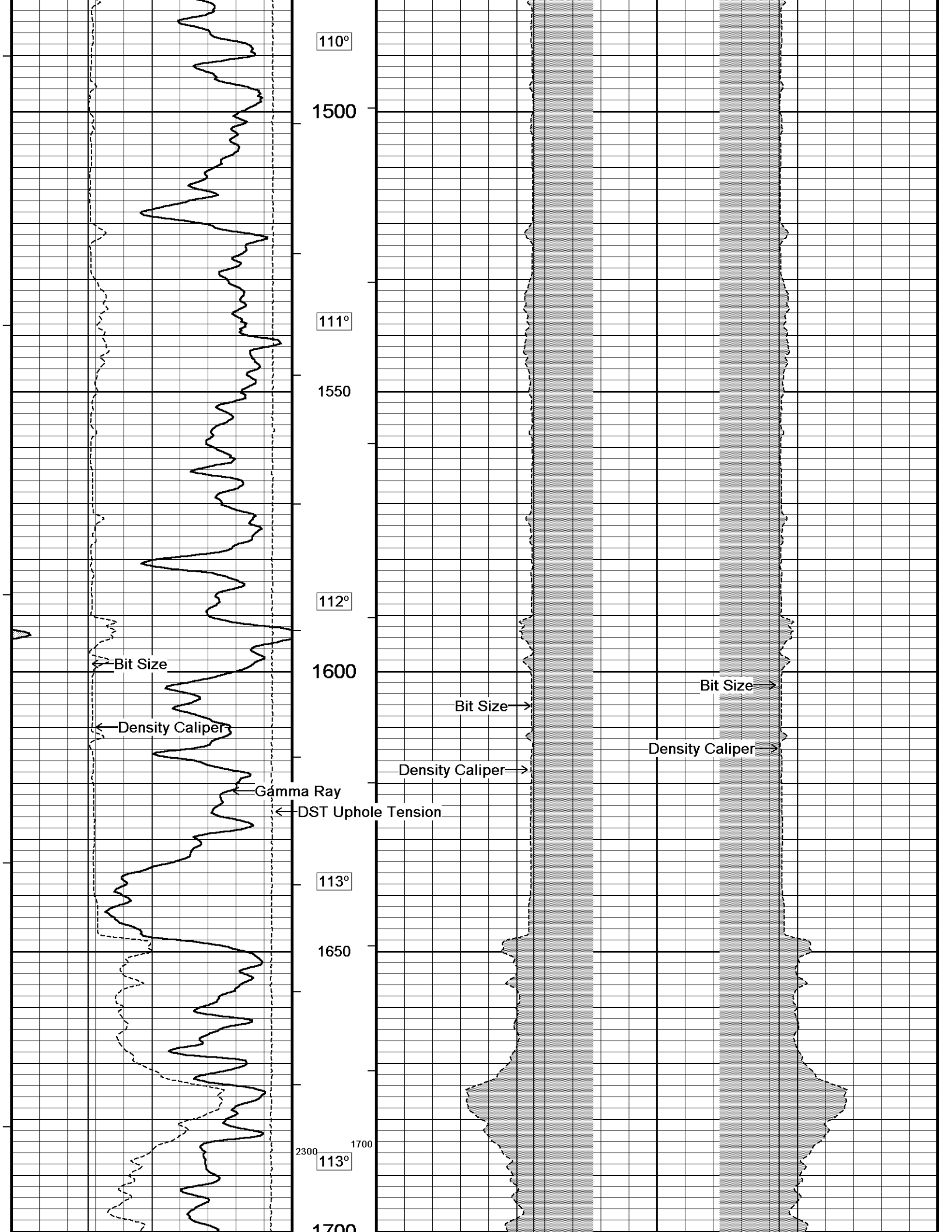
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 System Versions: Logged with 11.03.3657 Plotted with 11.03.3657

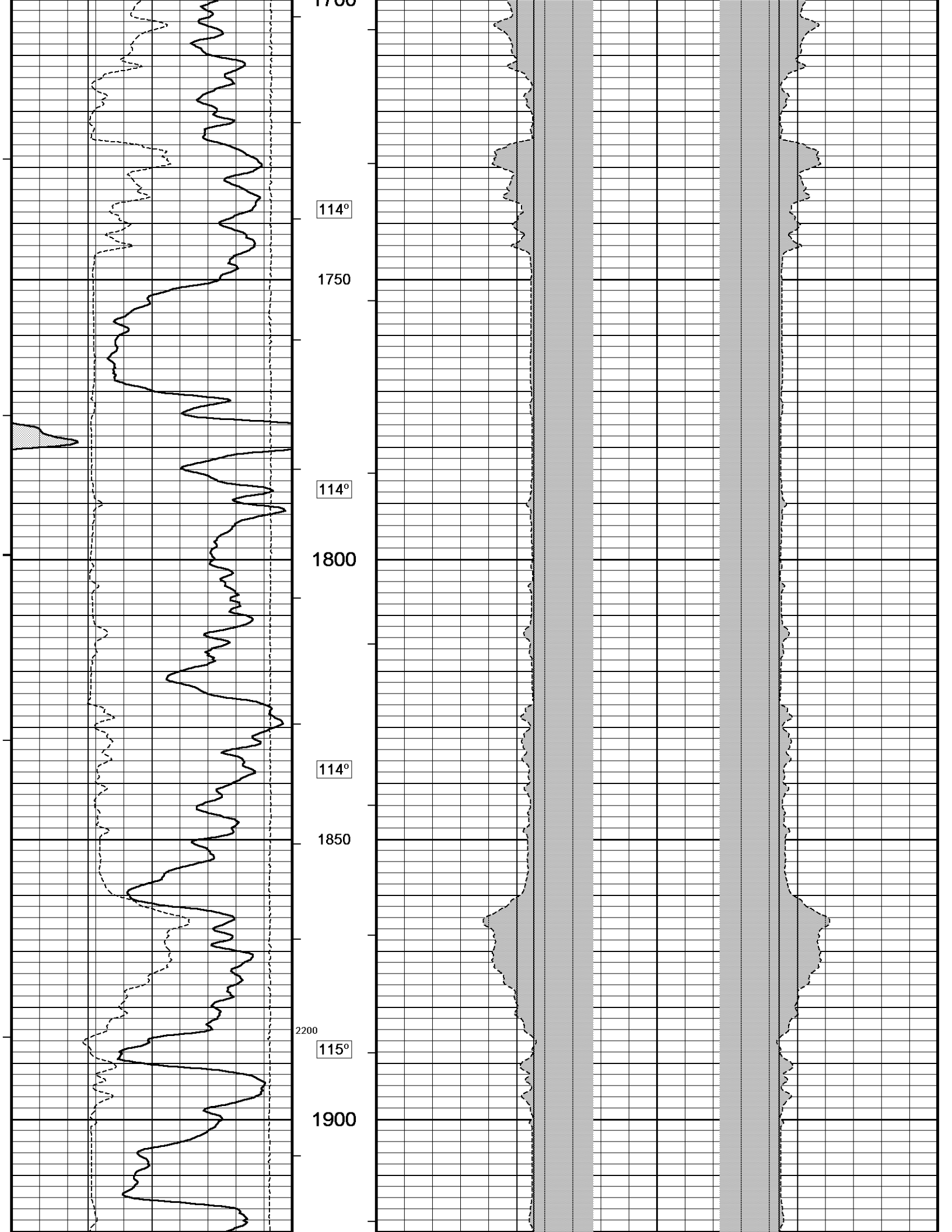


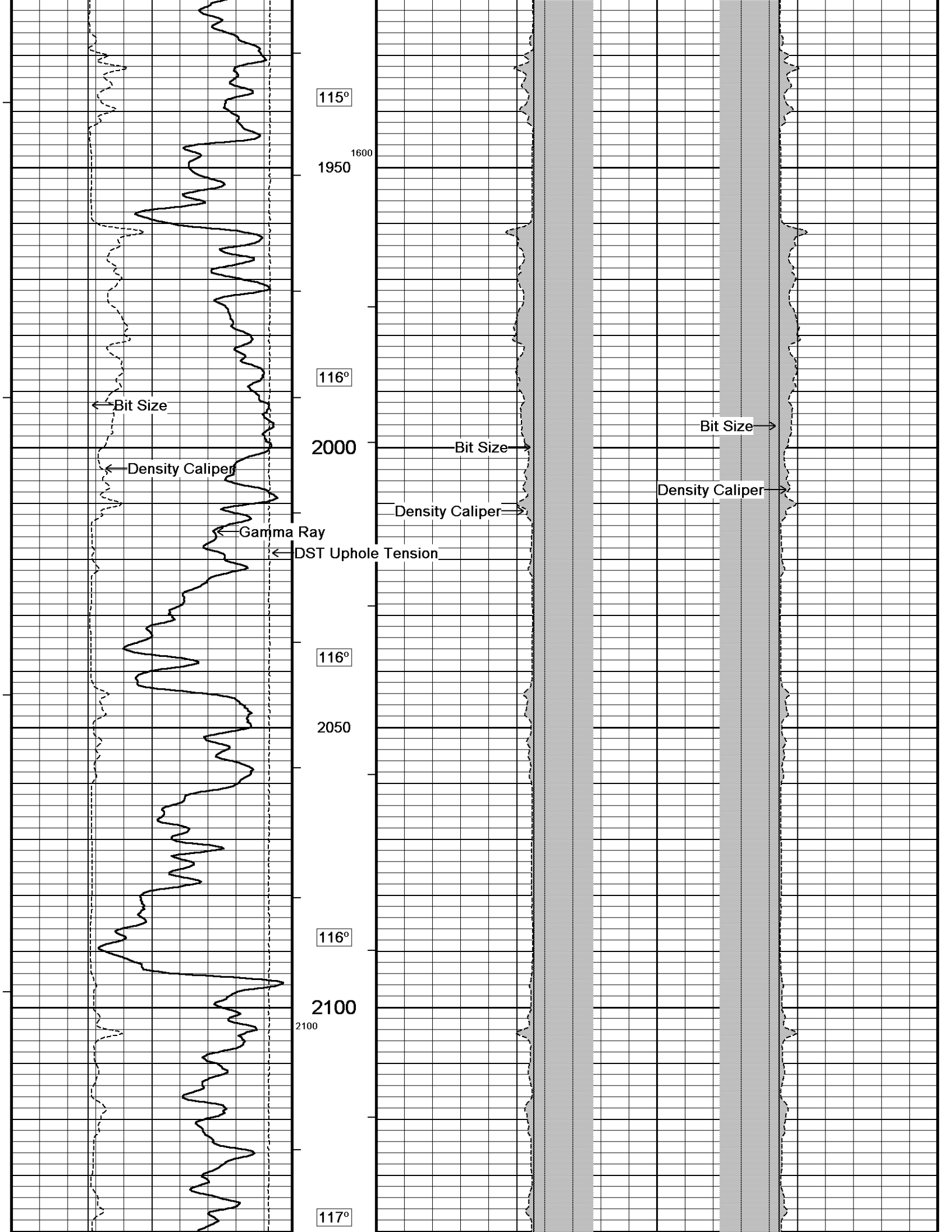












115°

1950¹⁶⁰⁰

116°

2000

116°

2050

116°

2100²¹⁰⁰

117°

← Bit Size

← Density Caliper

← Gamma Ray

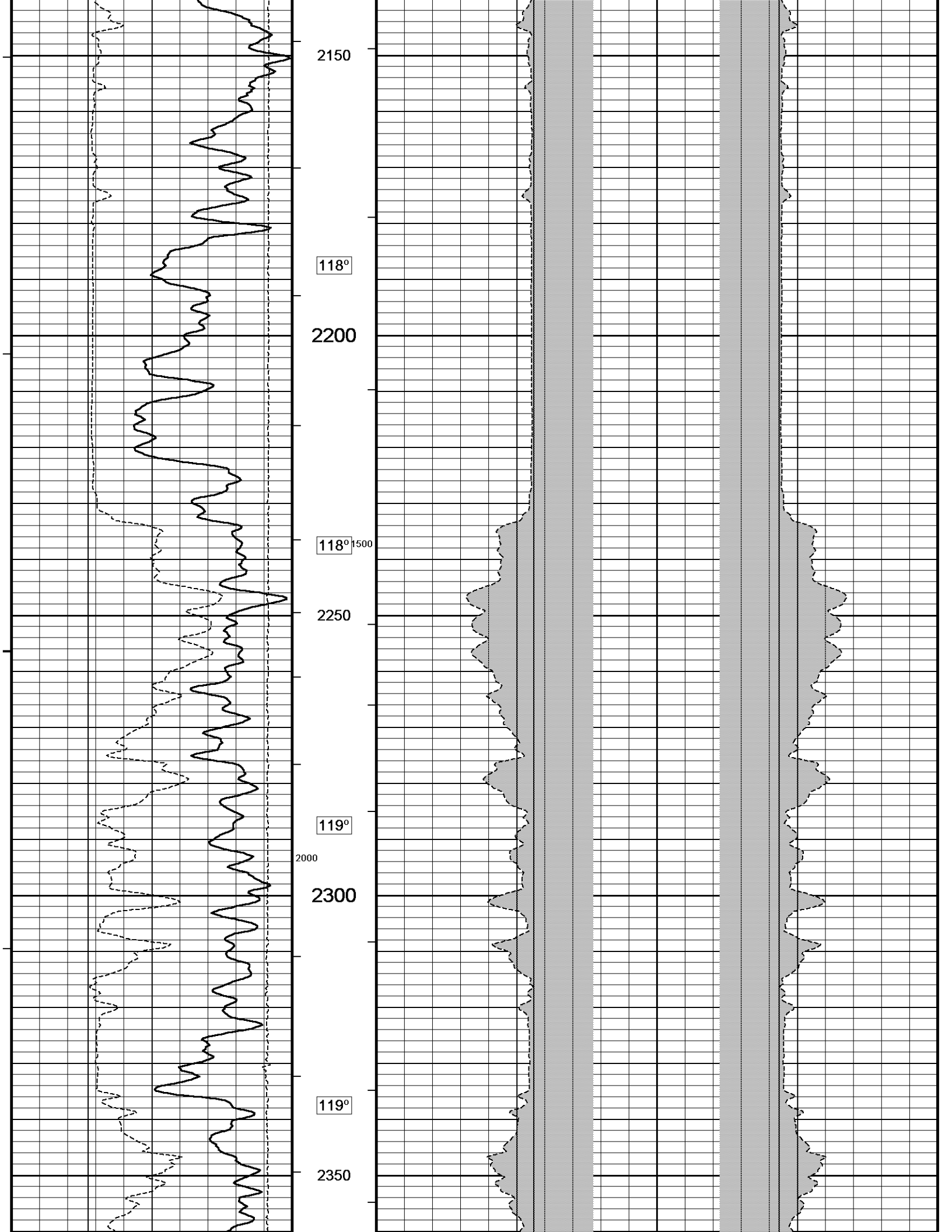
← DST Uphole Tension

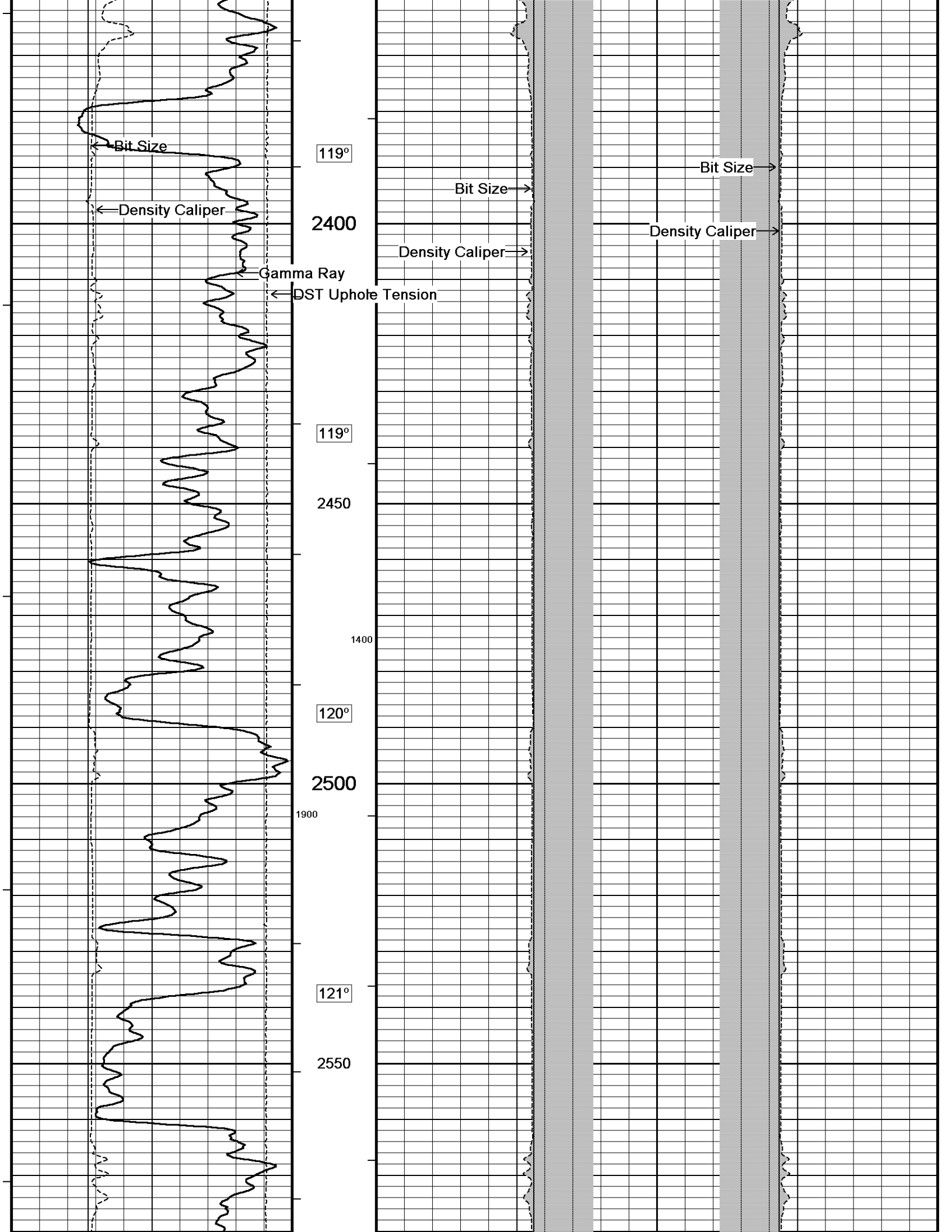
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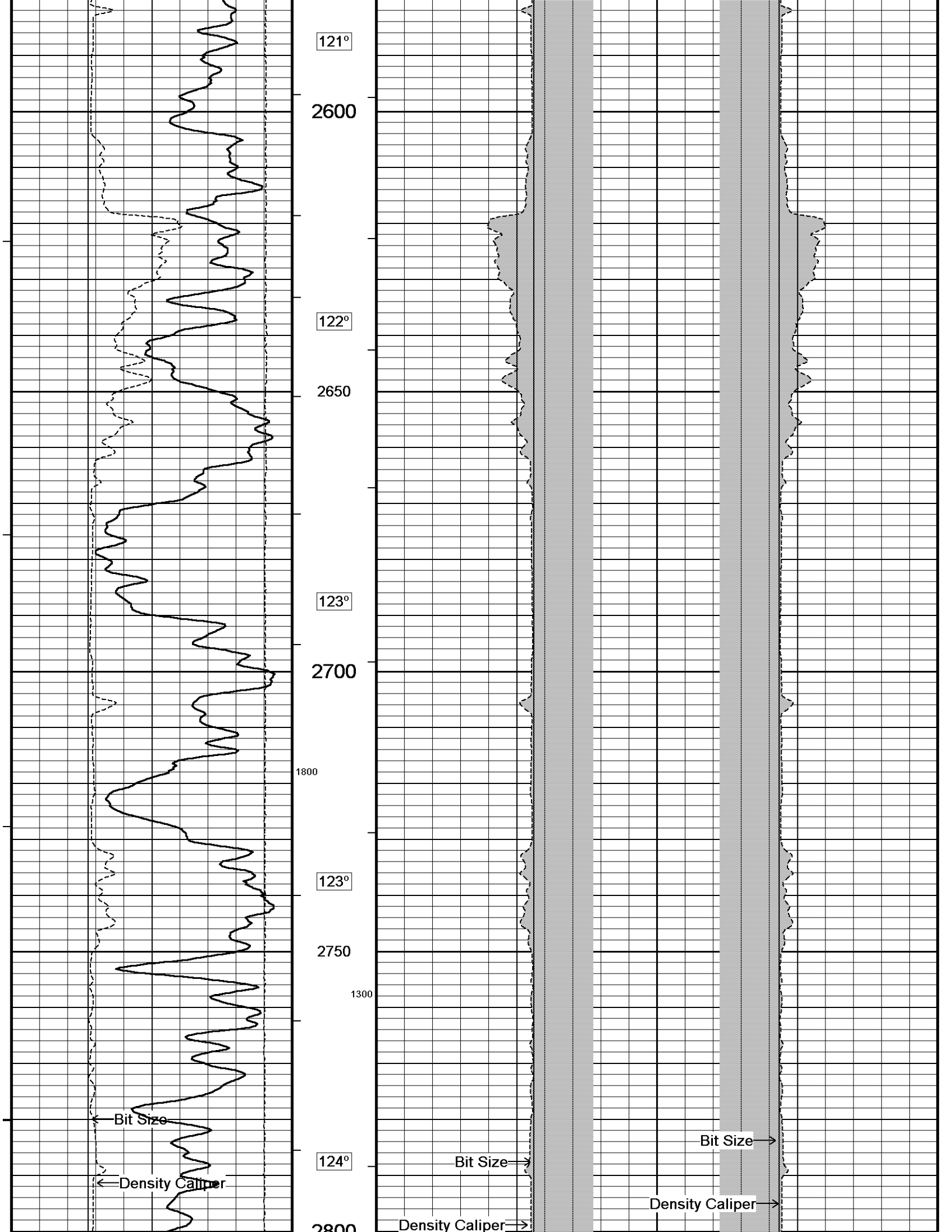
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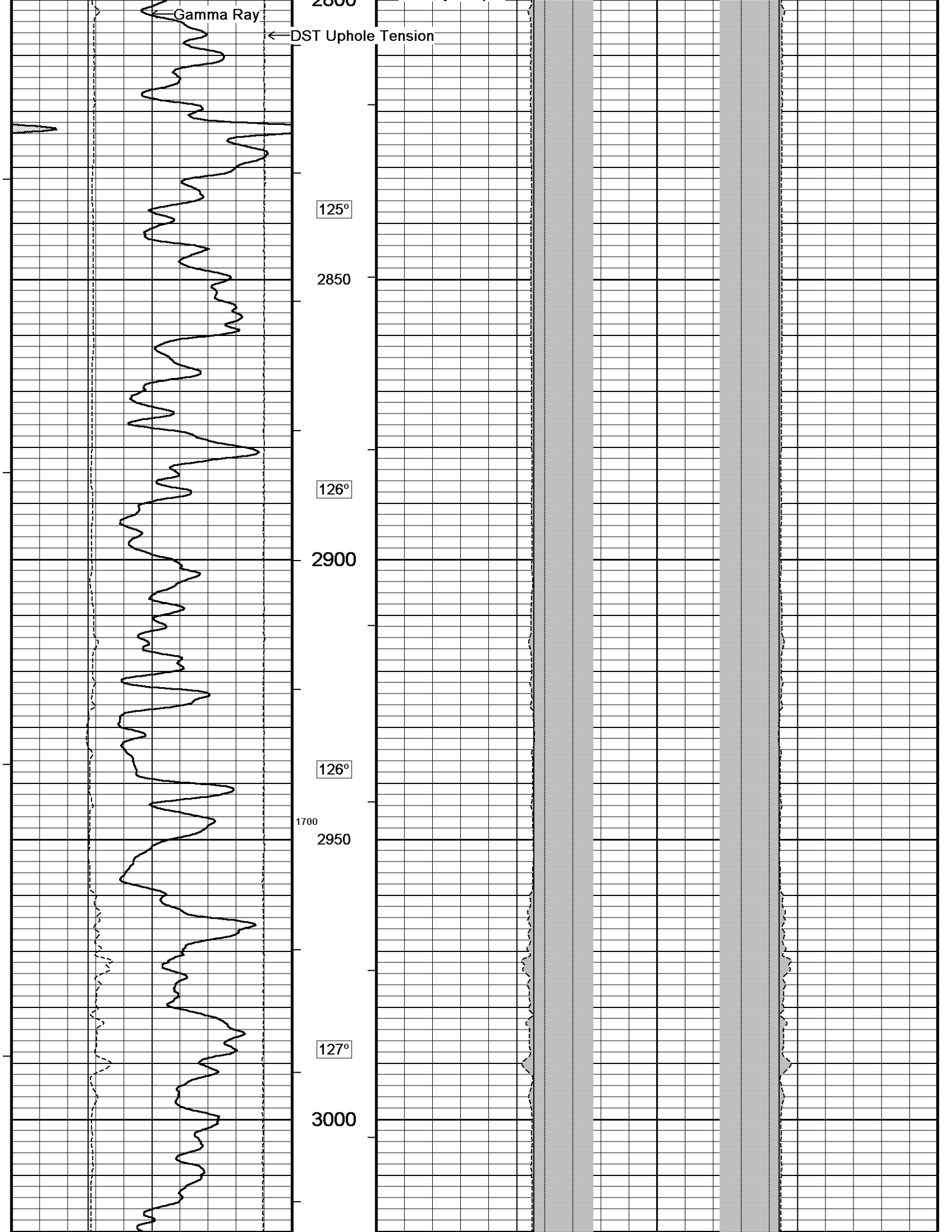
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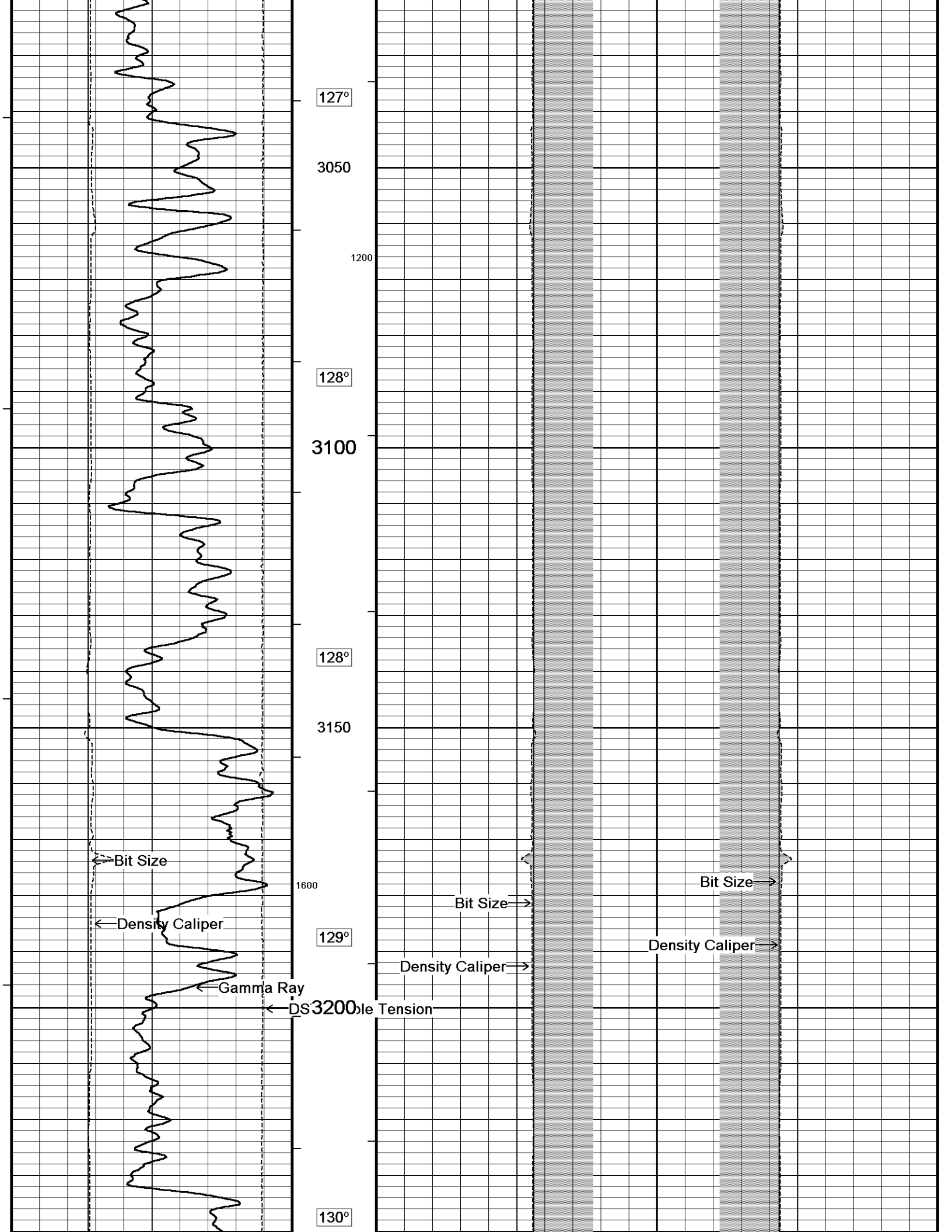
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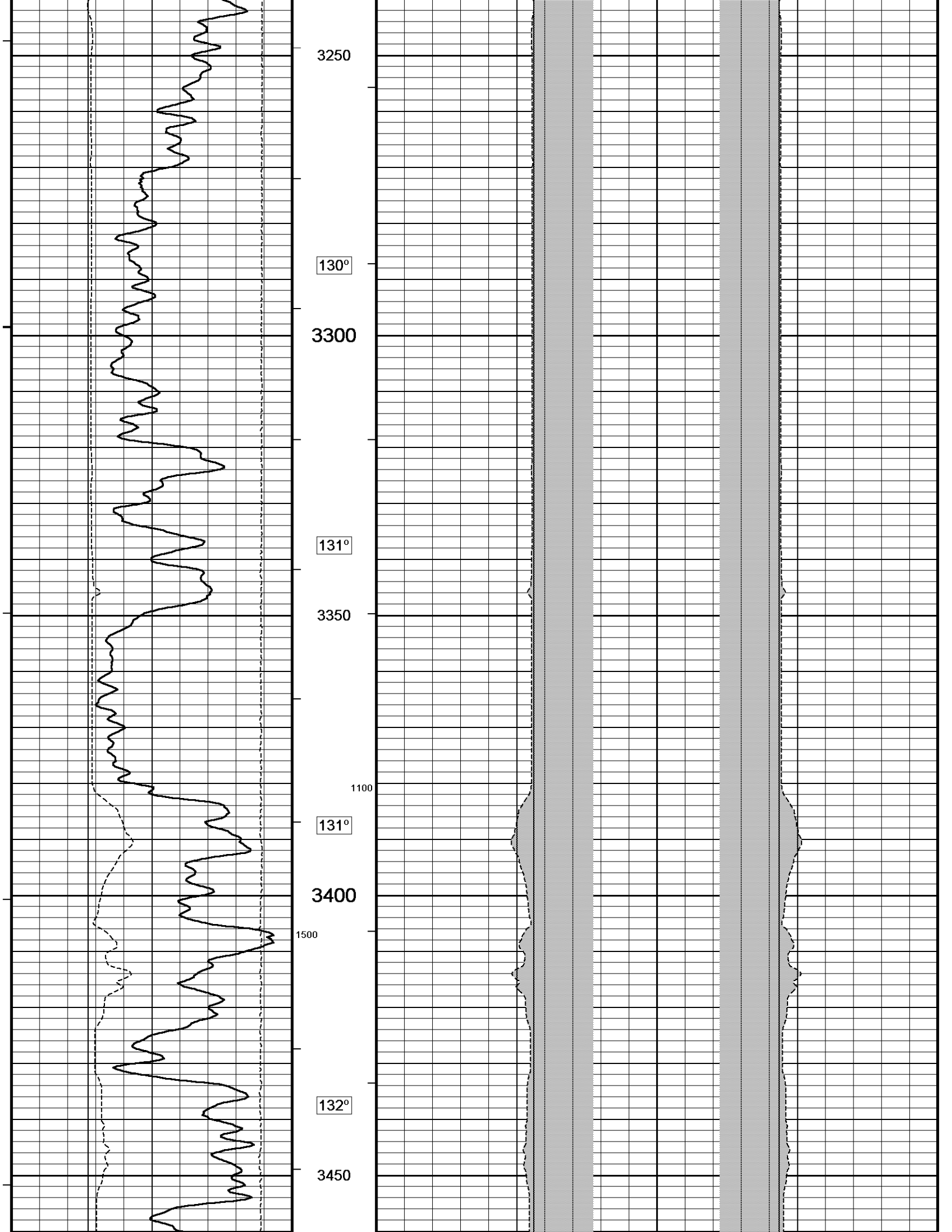


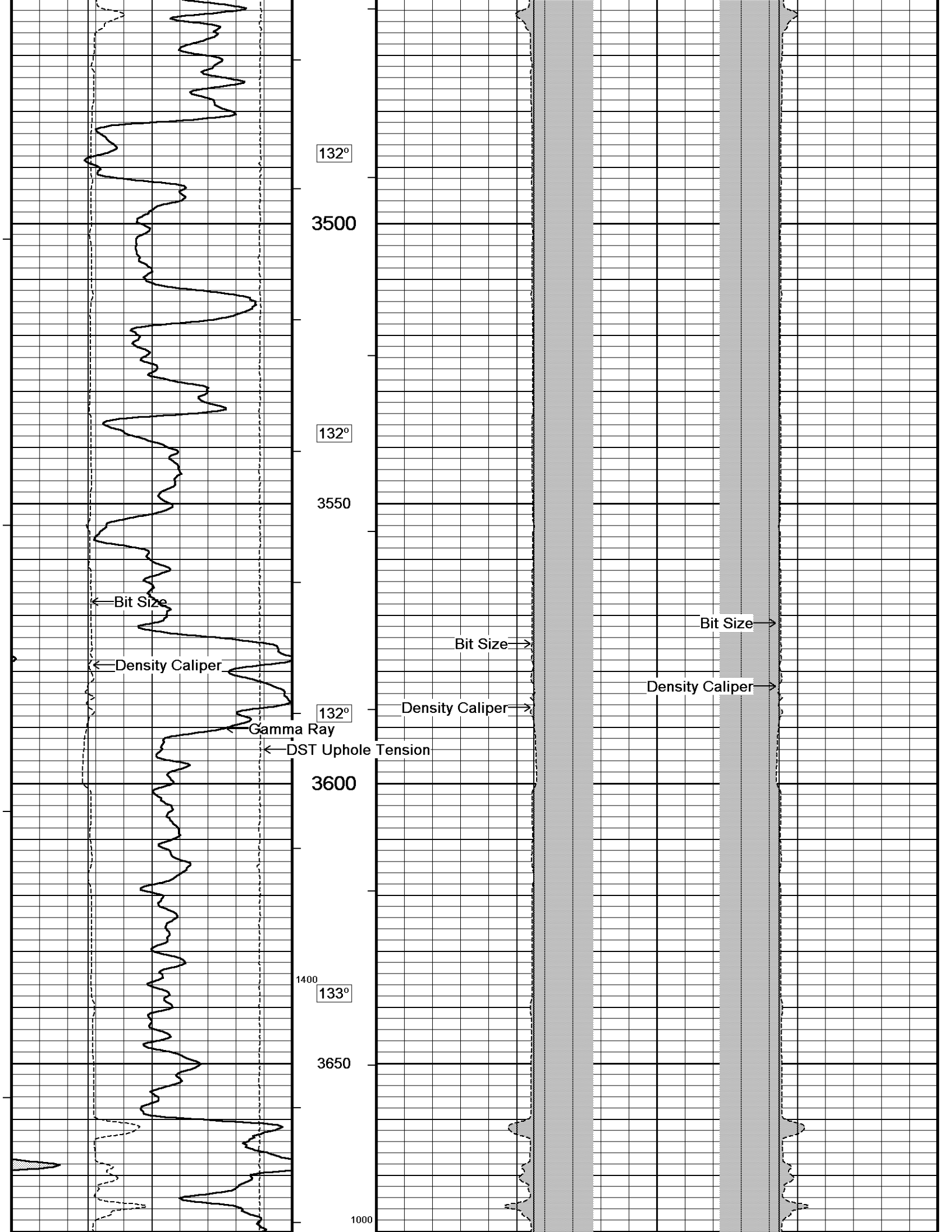


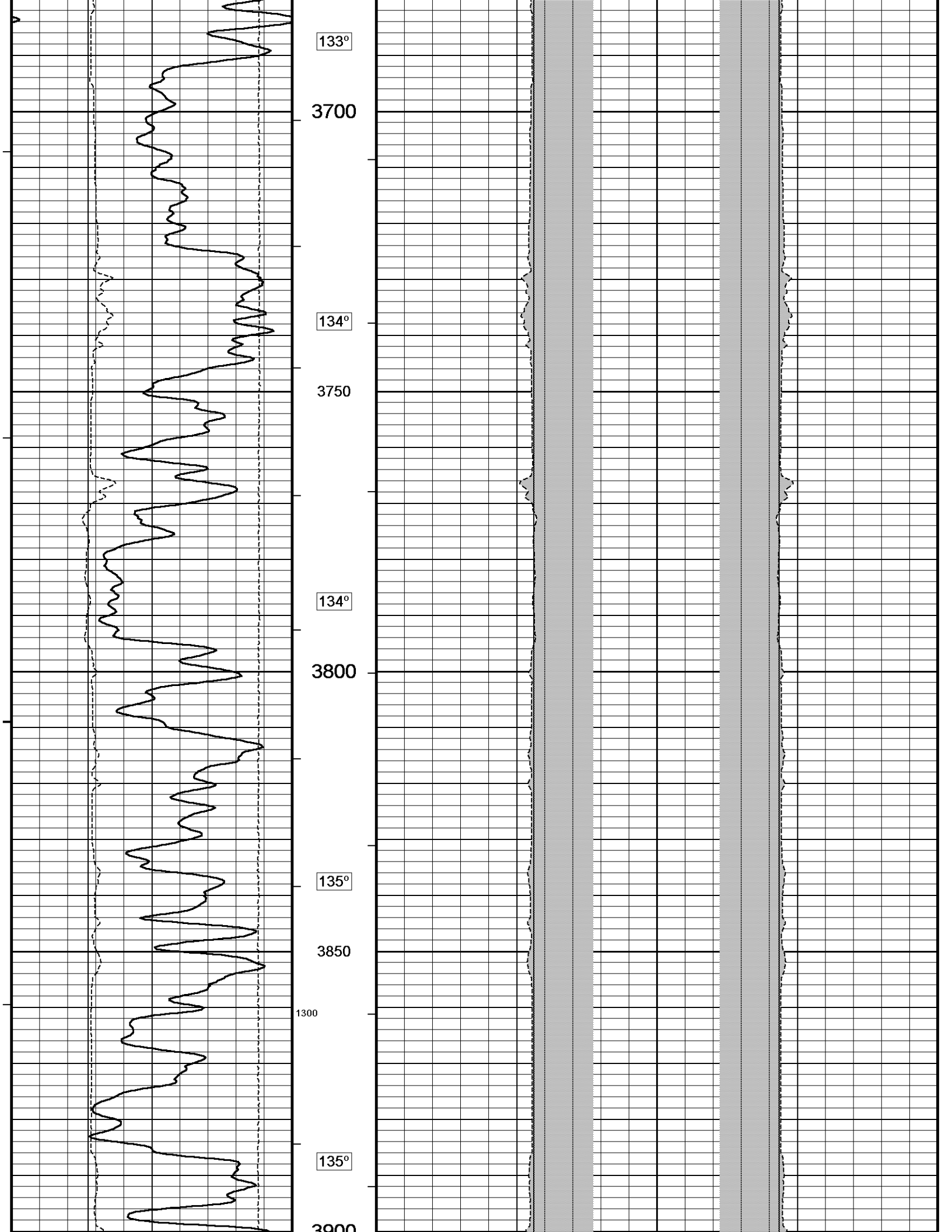


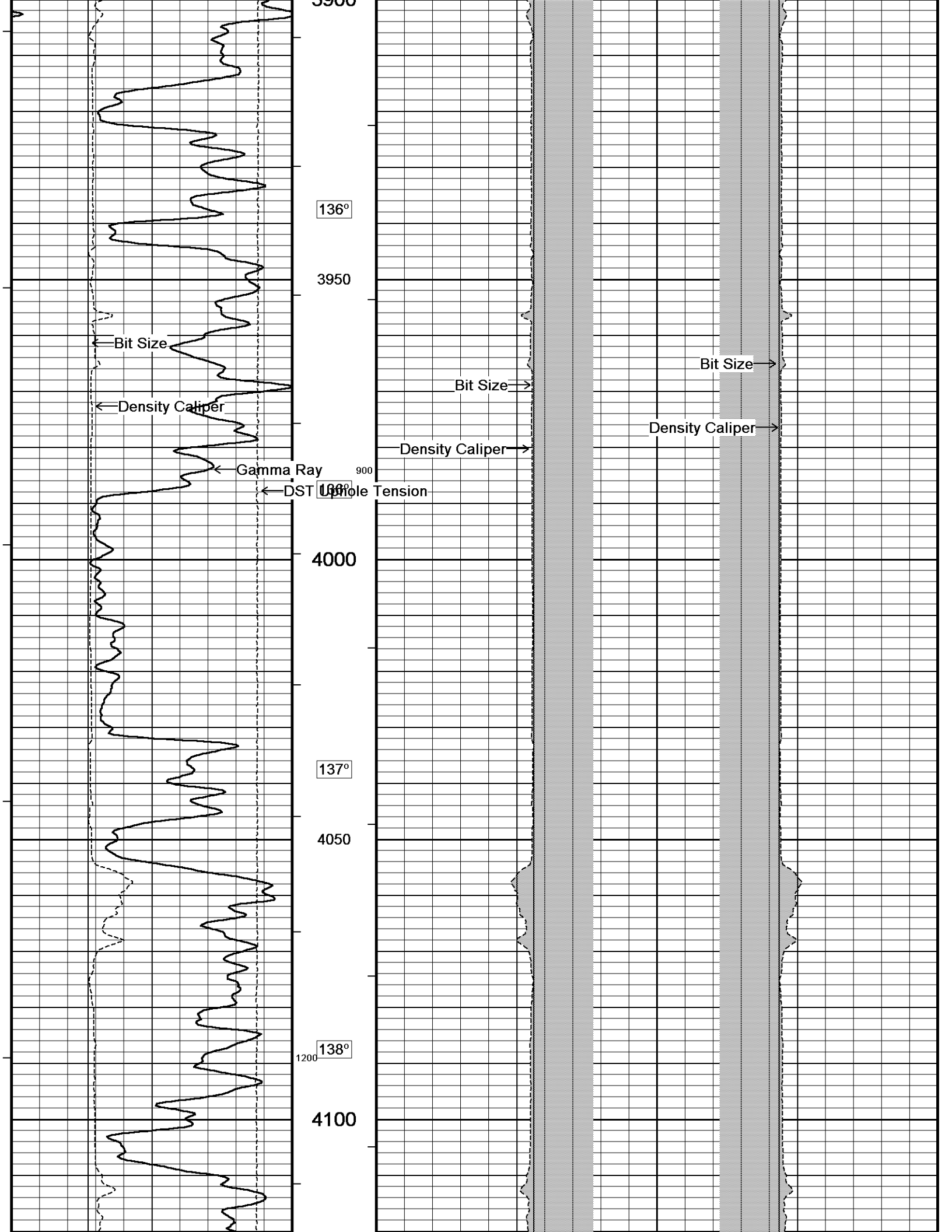


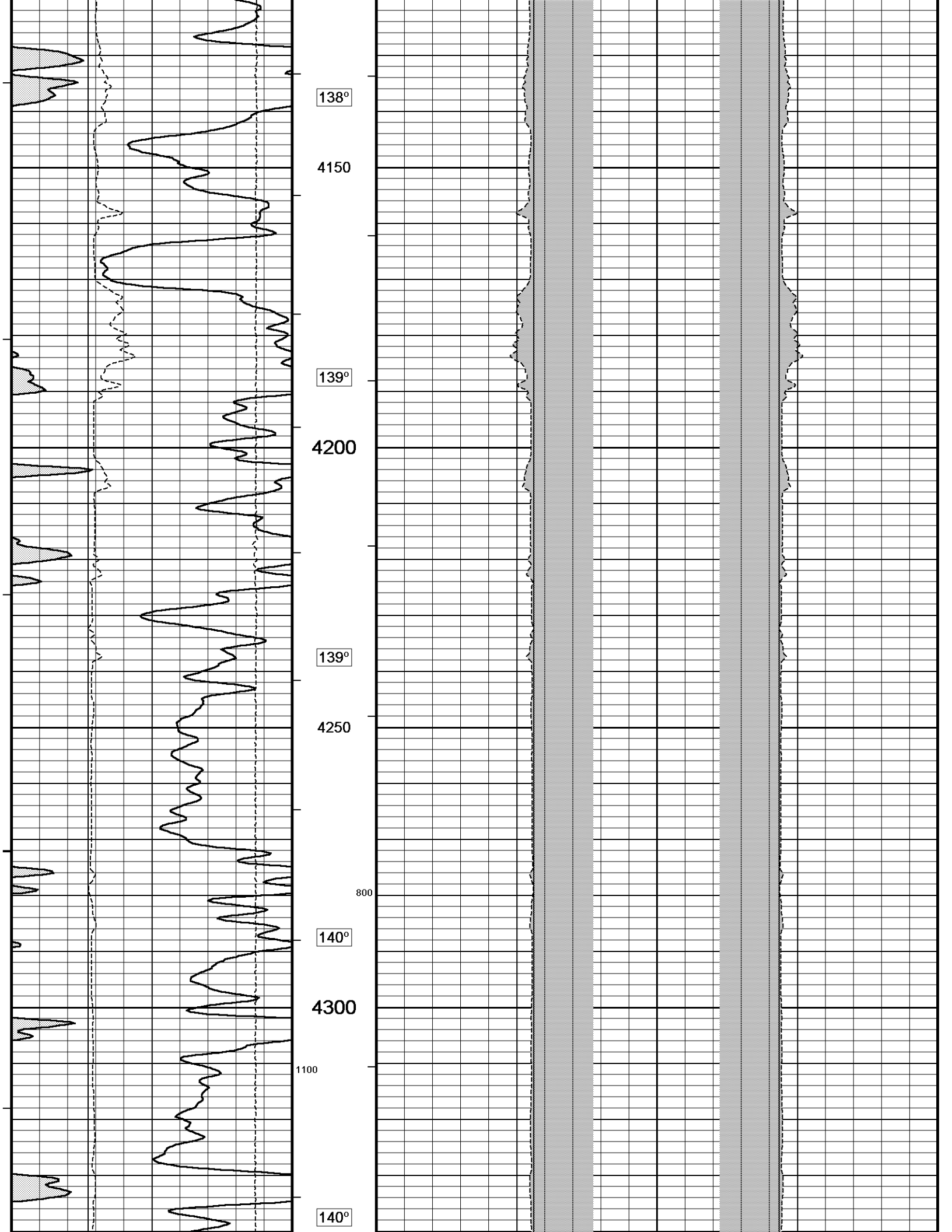


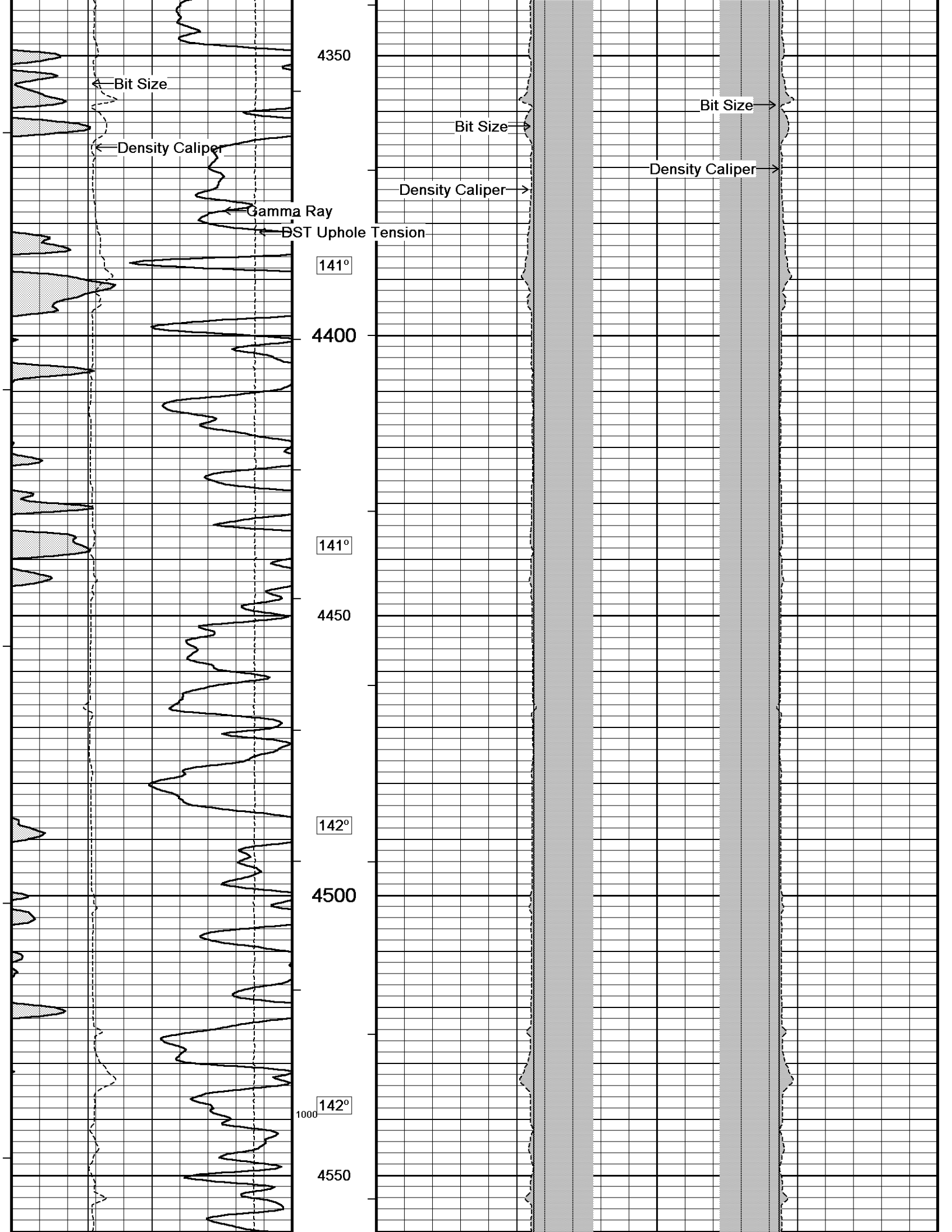


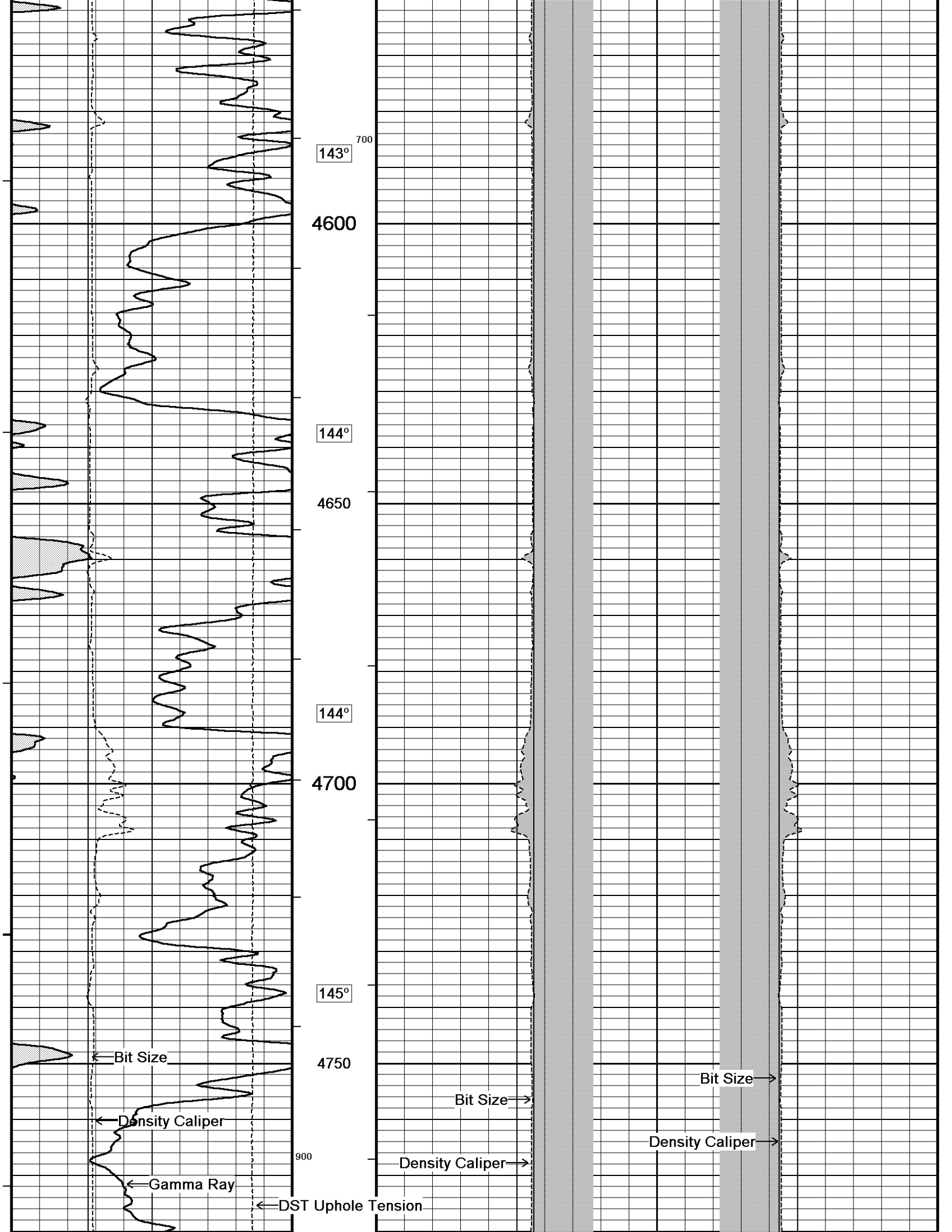


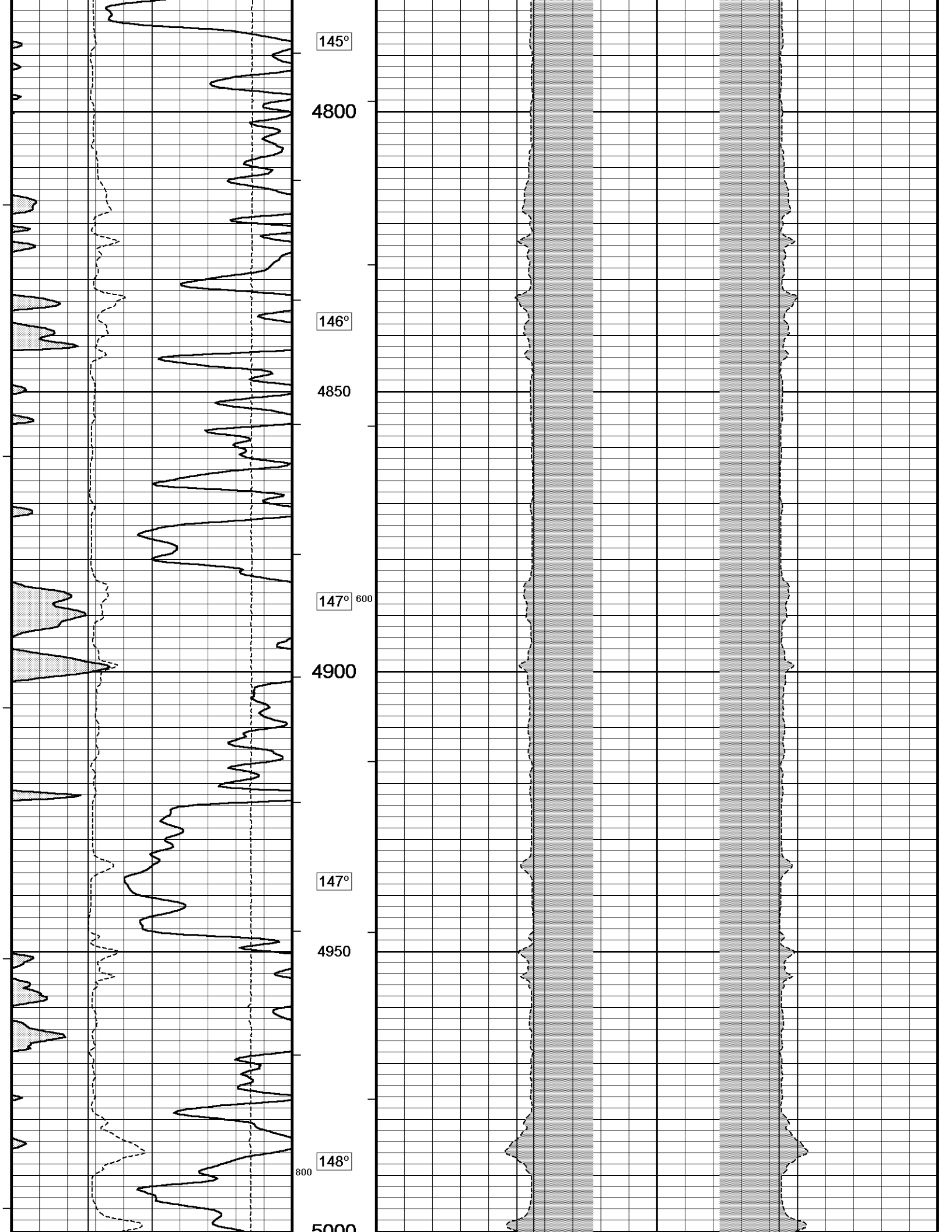


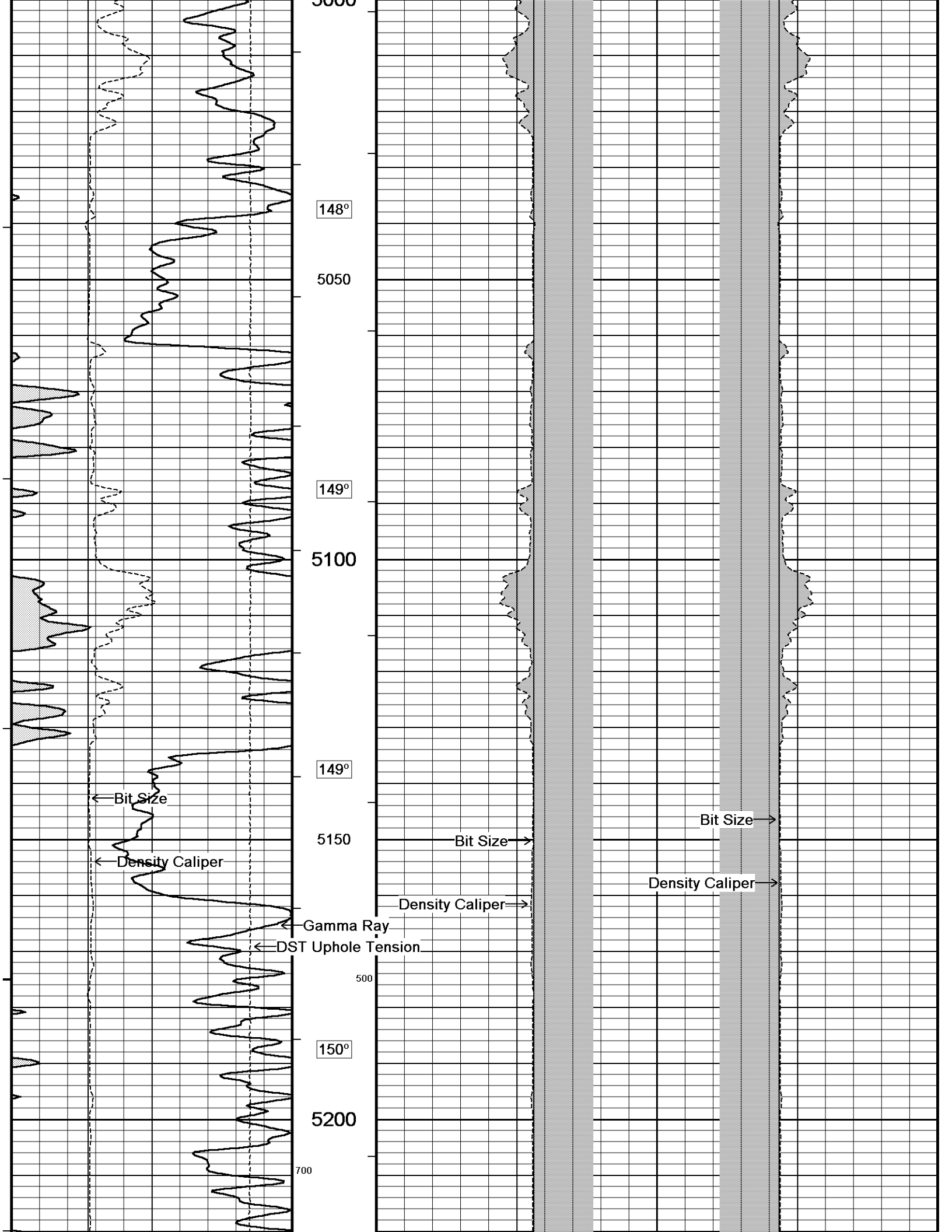


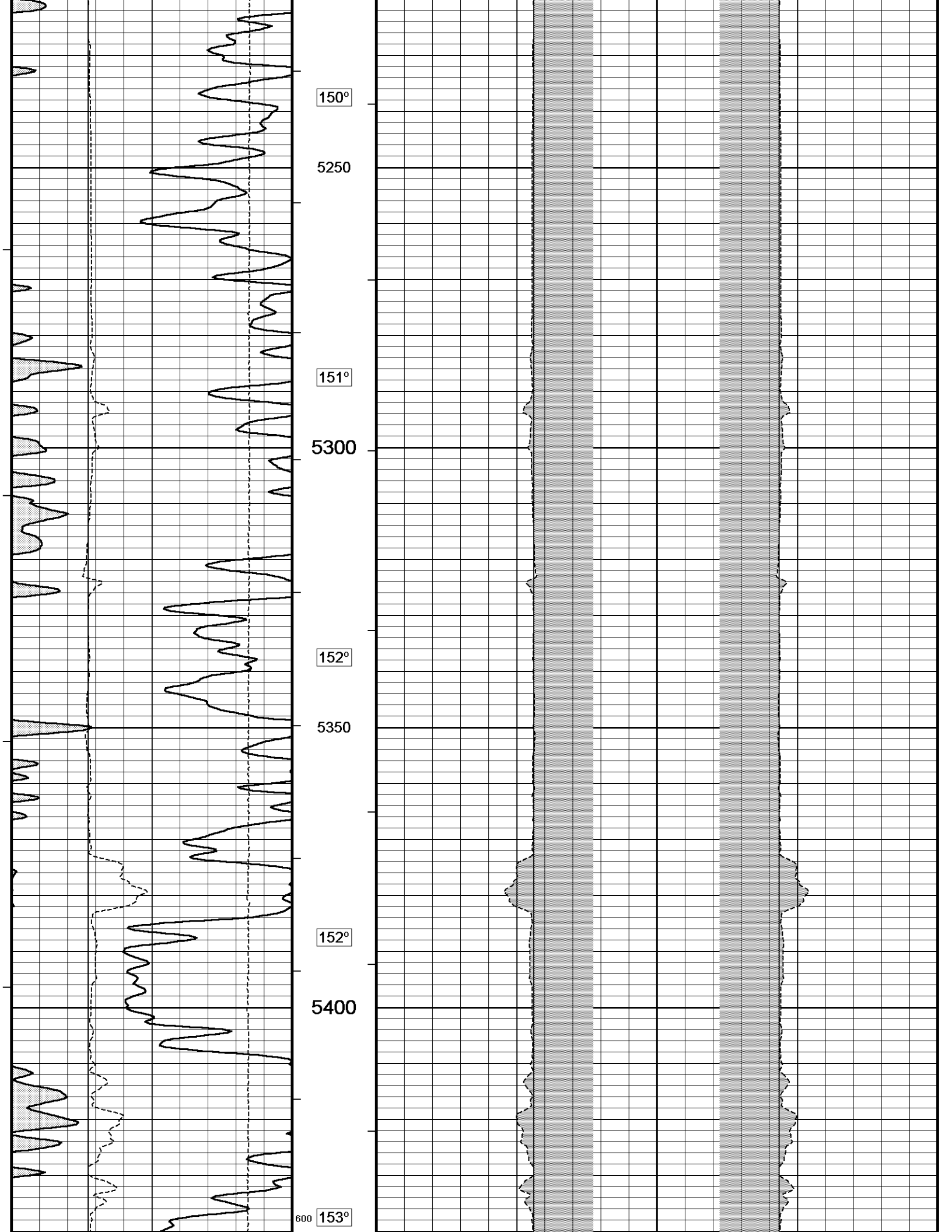


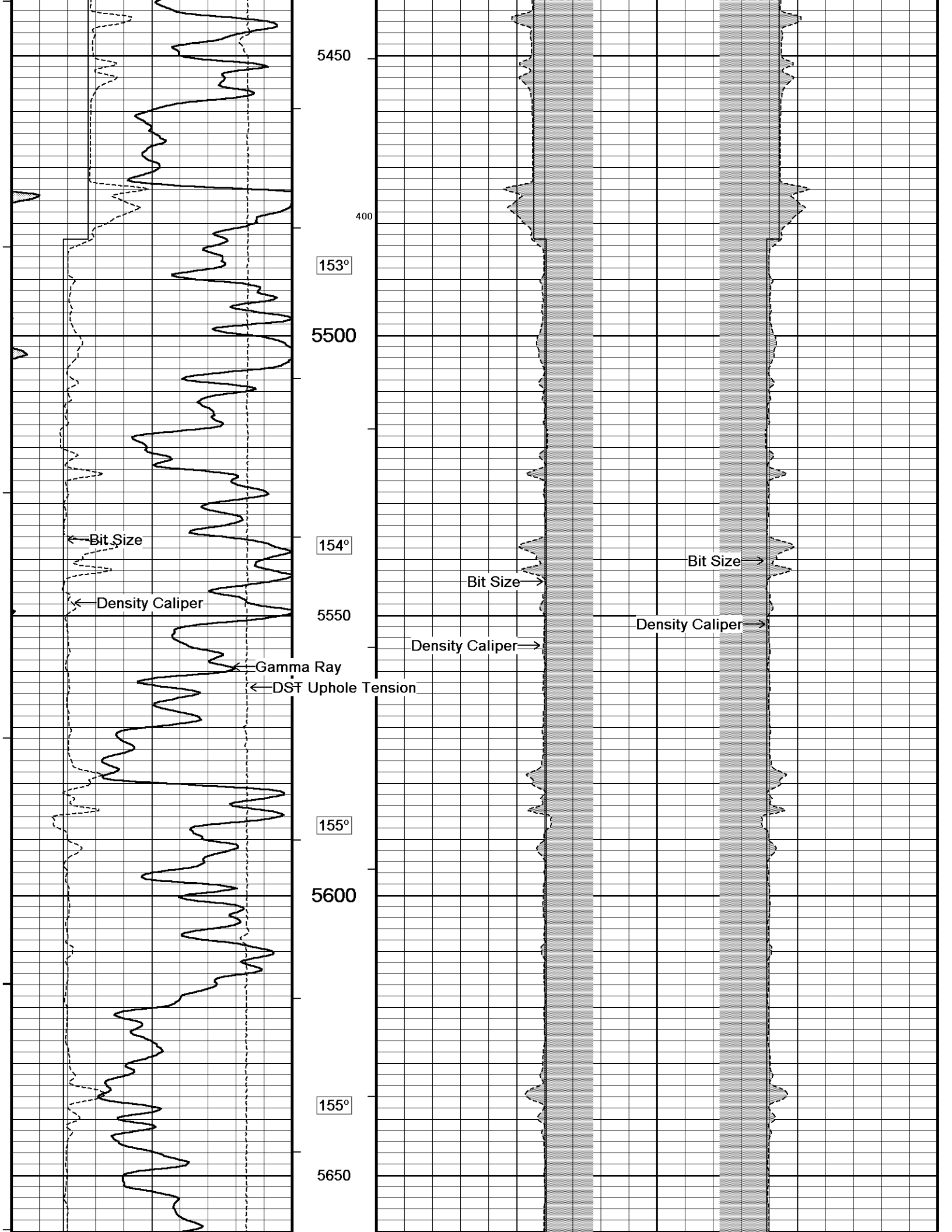












5450

400

153°

5500

154°

5550

155°

5600

155°

5650

← Bit Size

← Density Caliper

← Gamma Ray

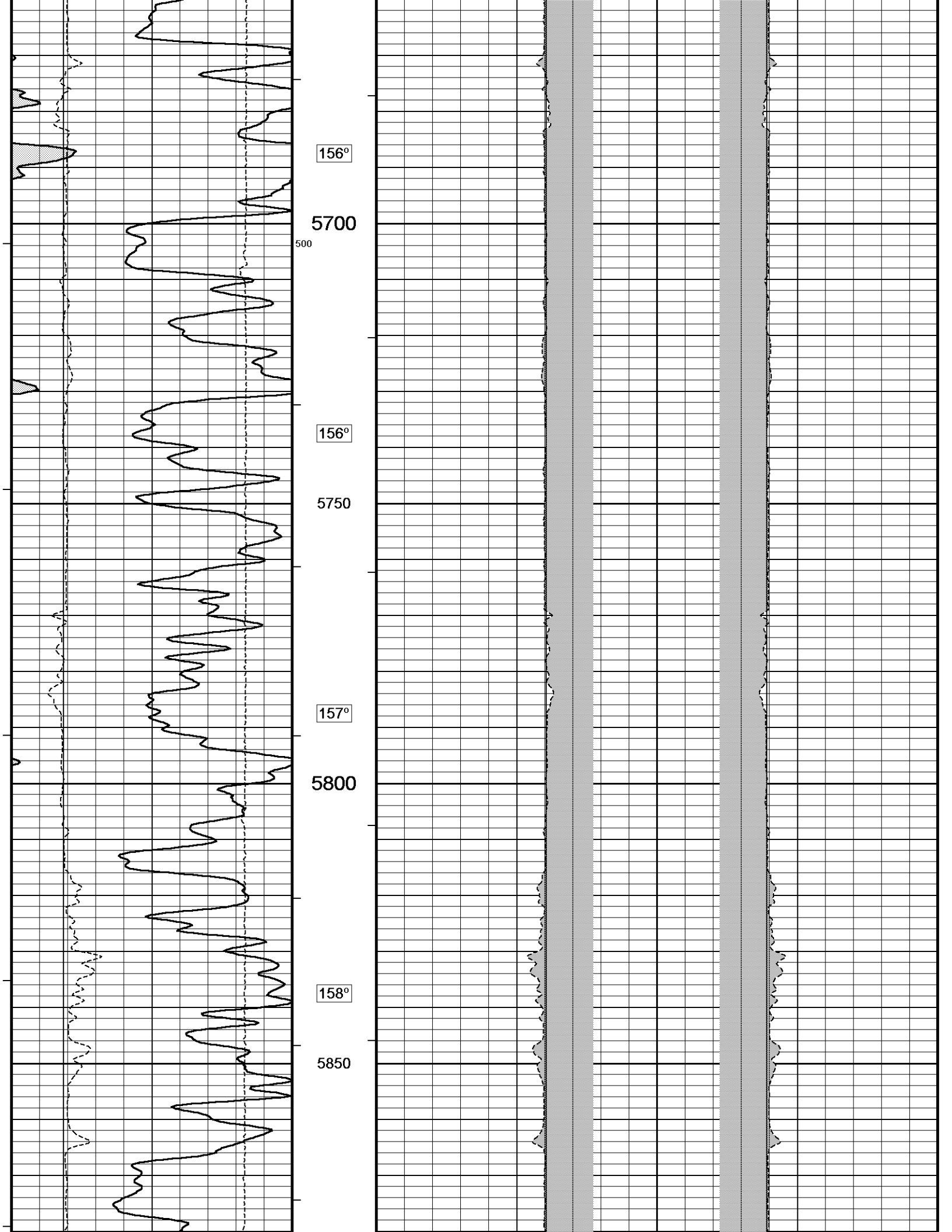
← DST Uphole Tension

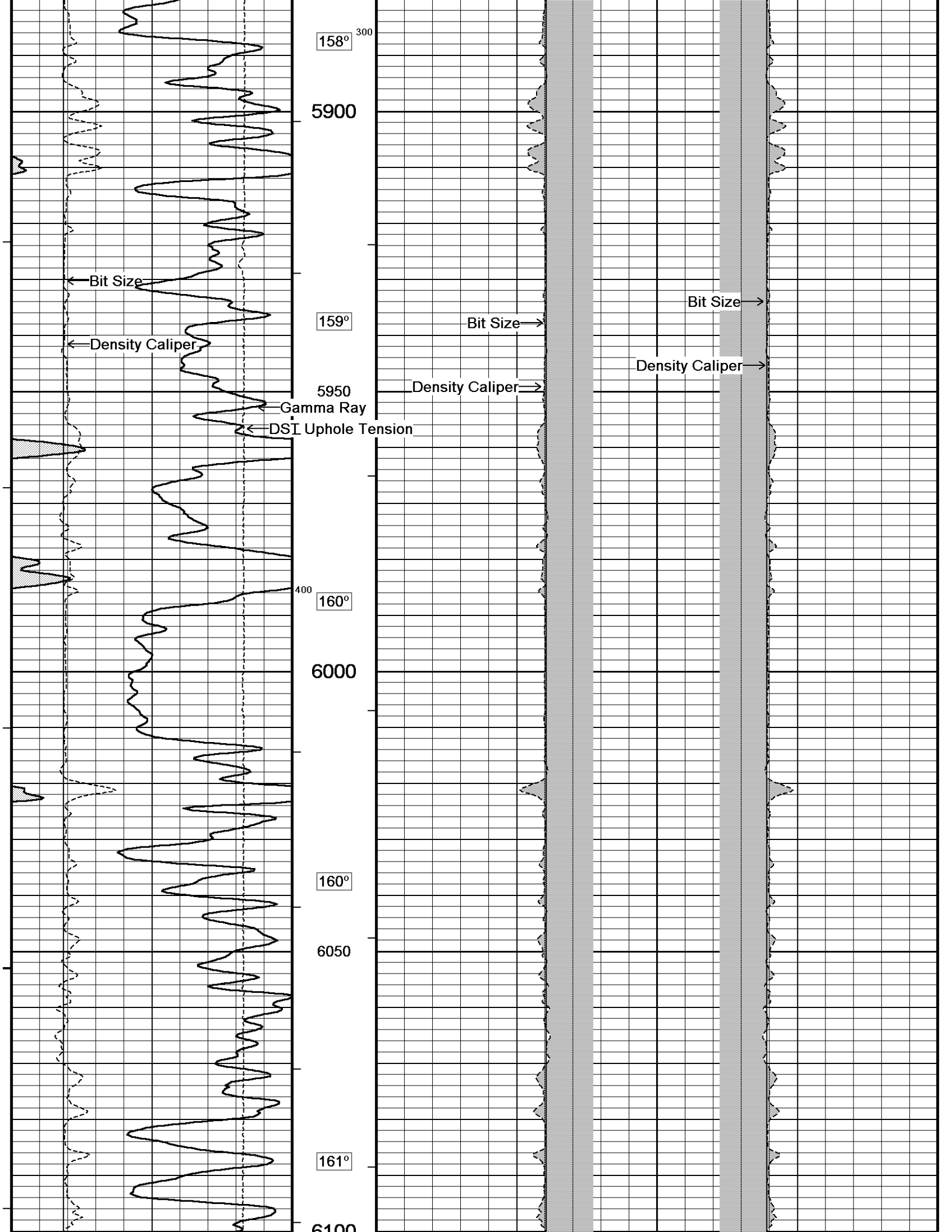
Density Caliper →

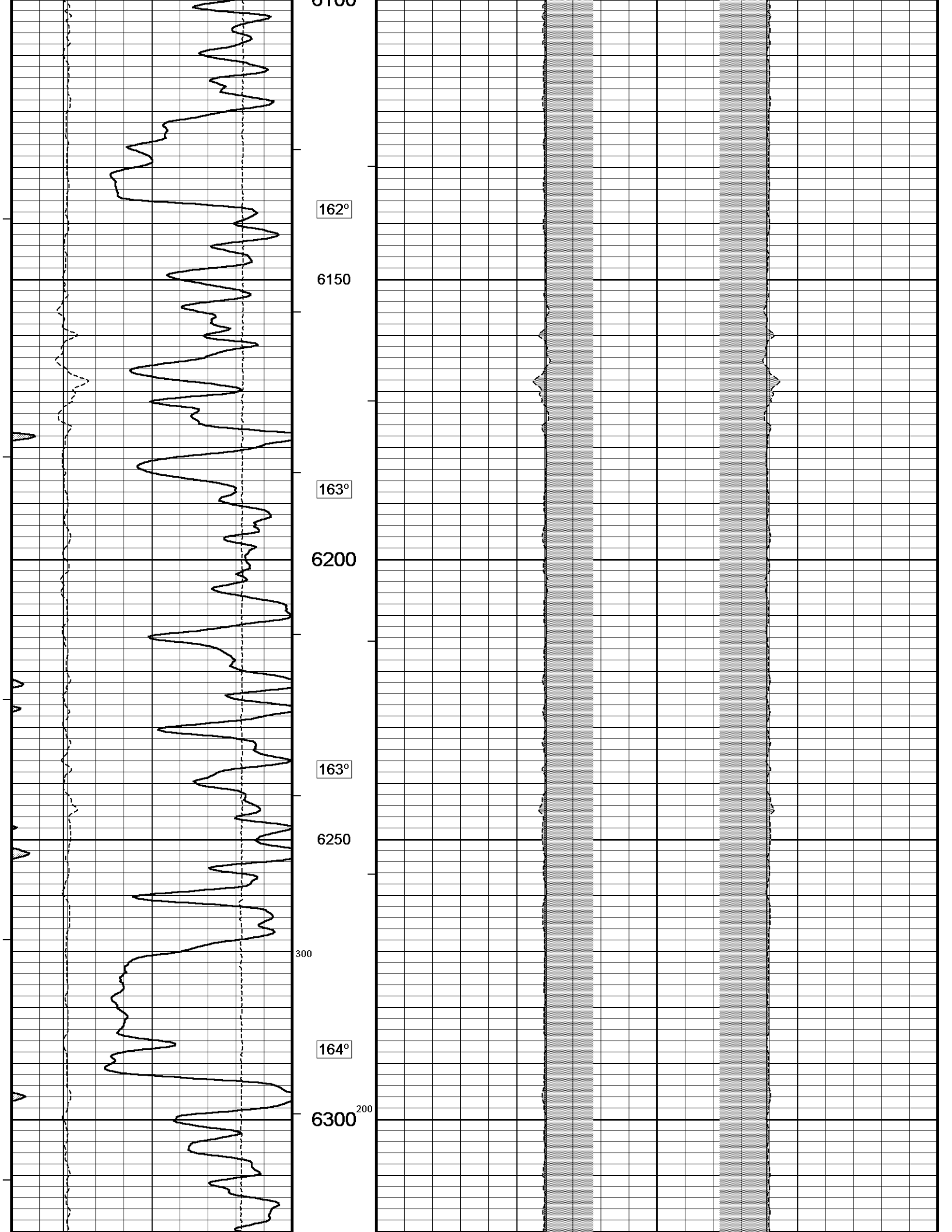
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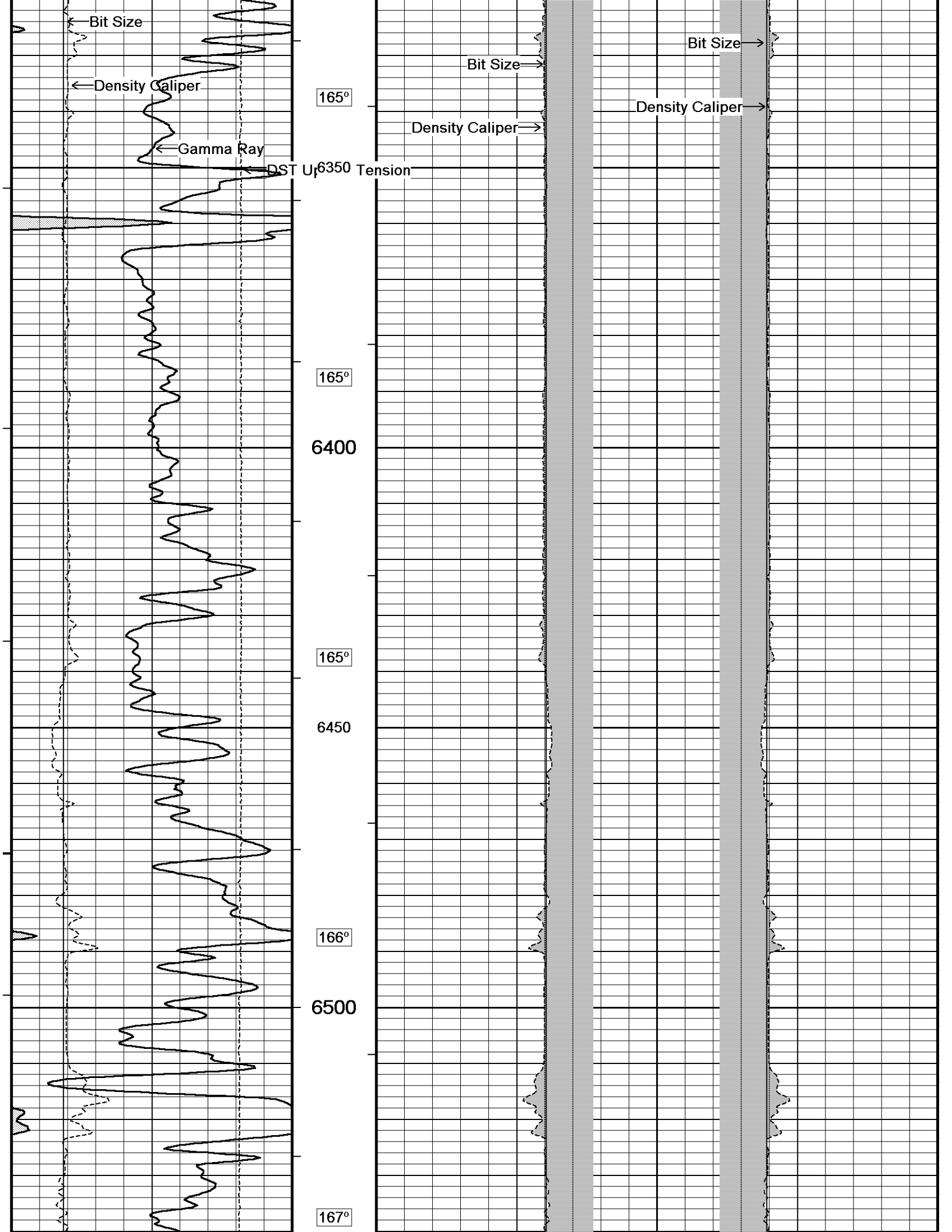
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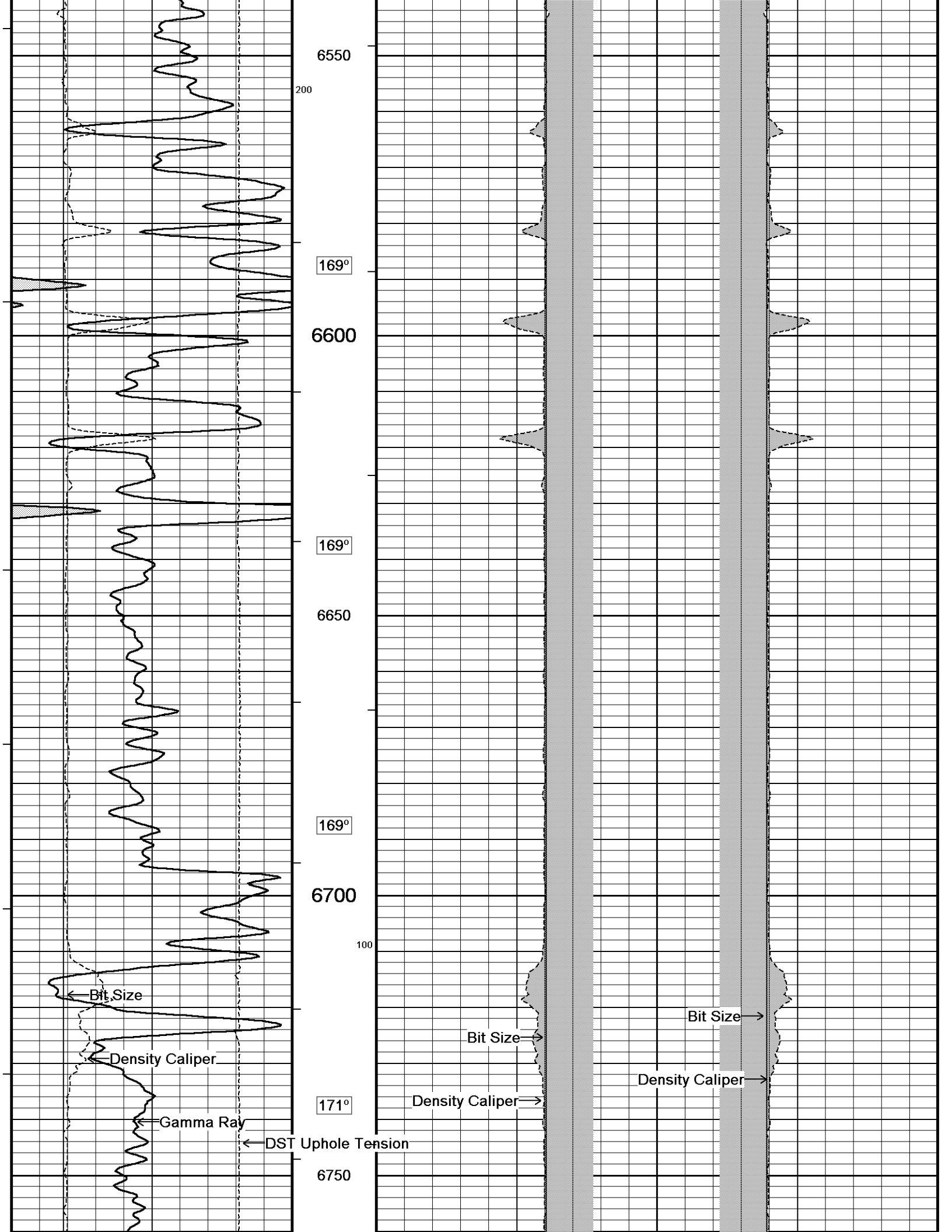
Density Caliper →

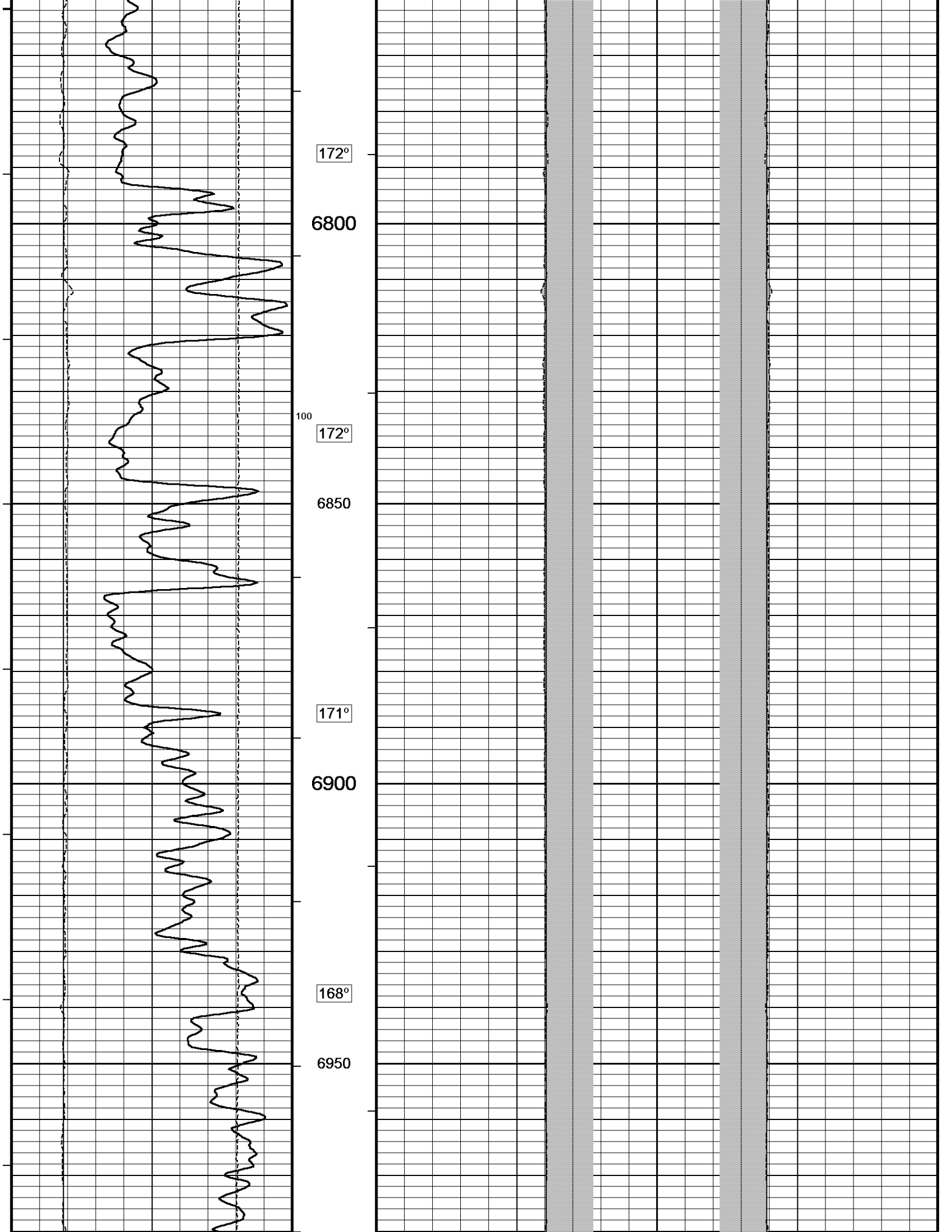


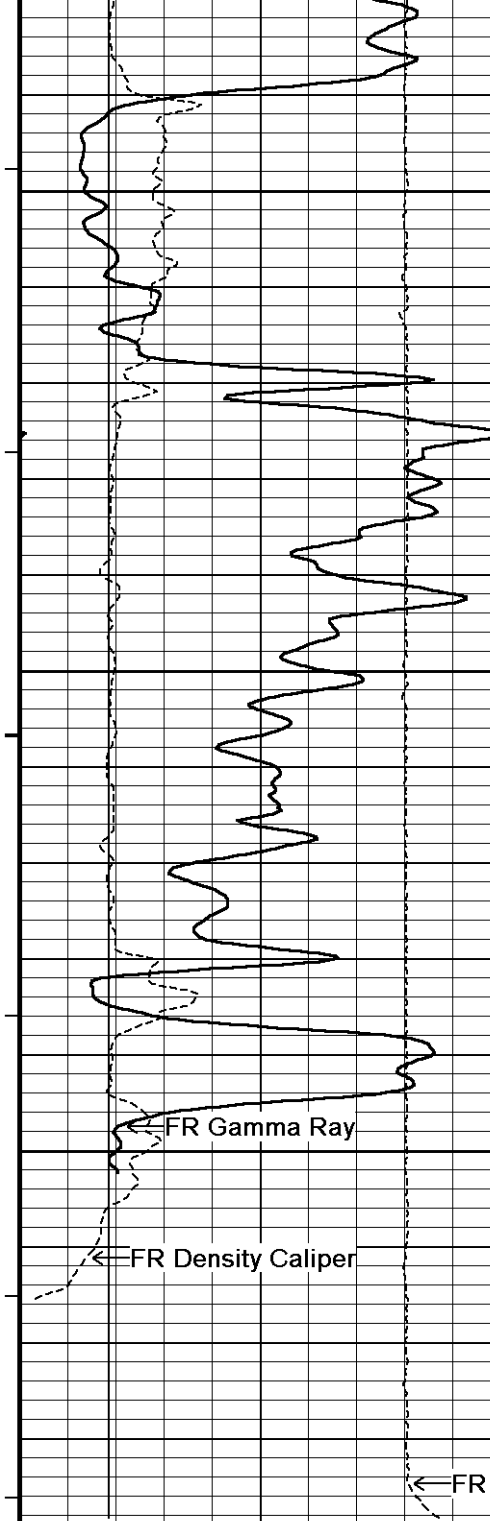




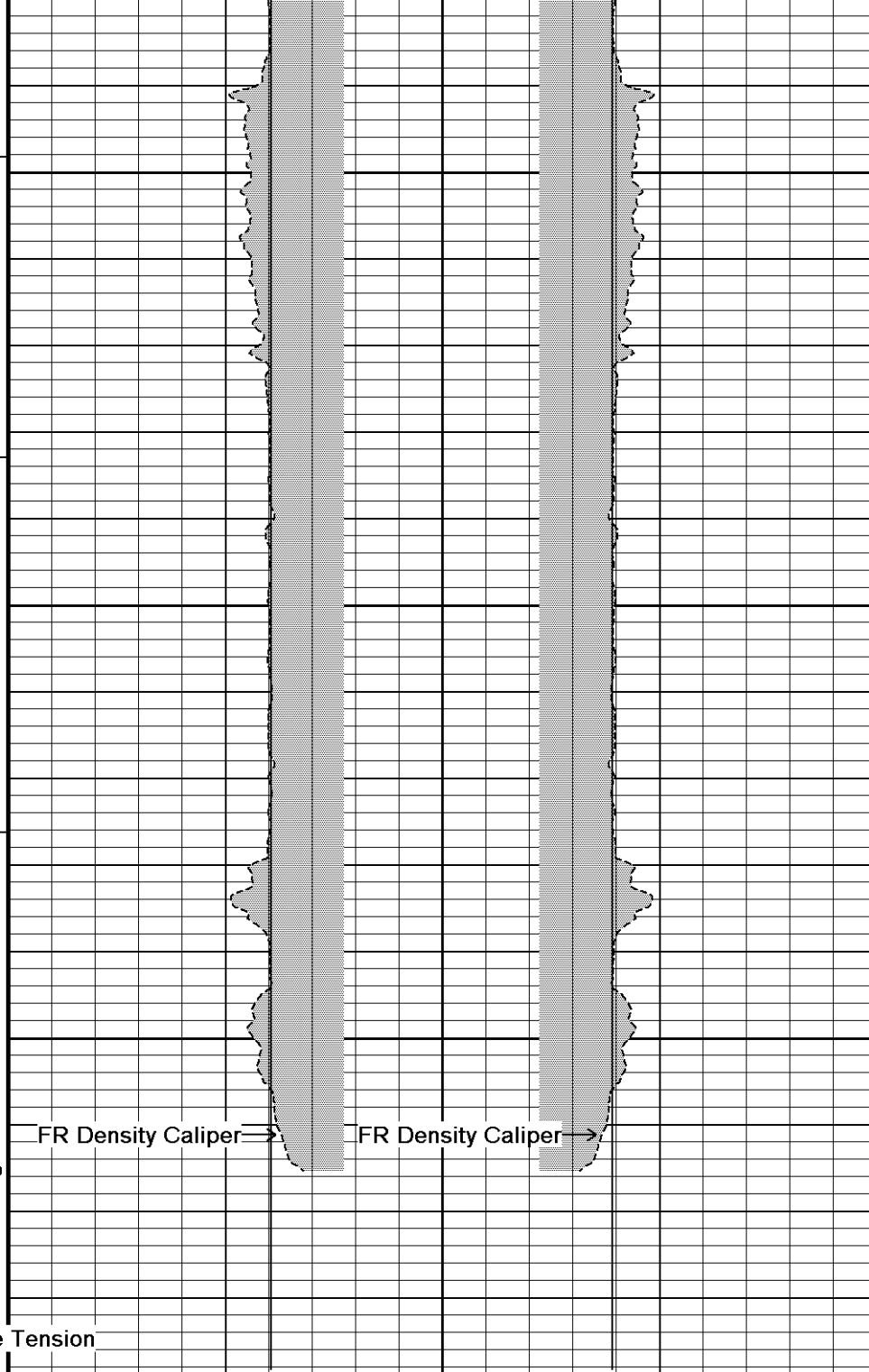








169°
7000
173°
7050
172°
7100
0
7150
Depth In Feet

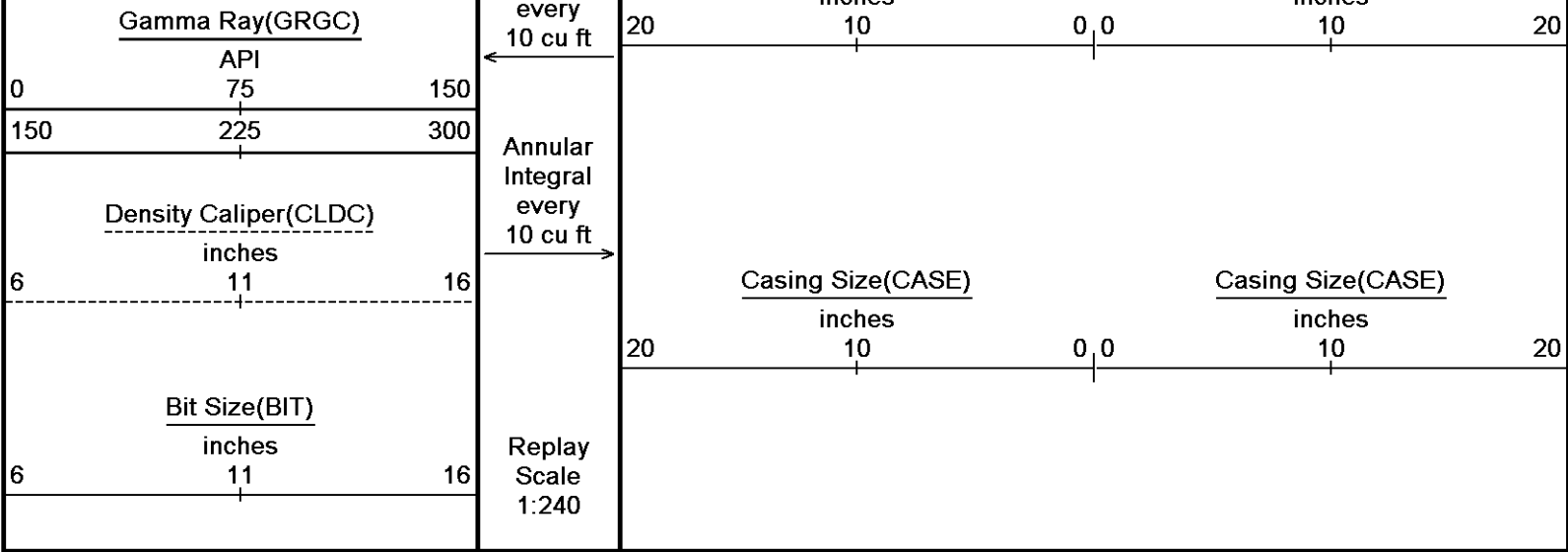


Density Caliper (CLDC) inches
20 10 0 0 10 20

Timing Marks every 60.0 sec
DST Uphole Tension (SMTU) pounds
10000 5000 0

Bit Size (BIT) inches

HVI



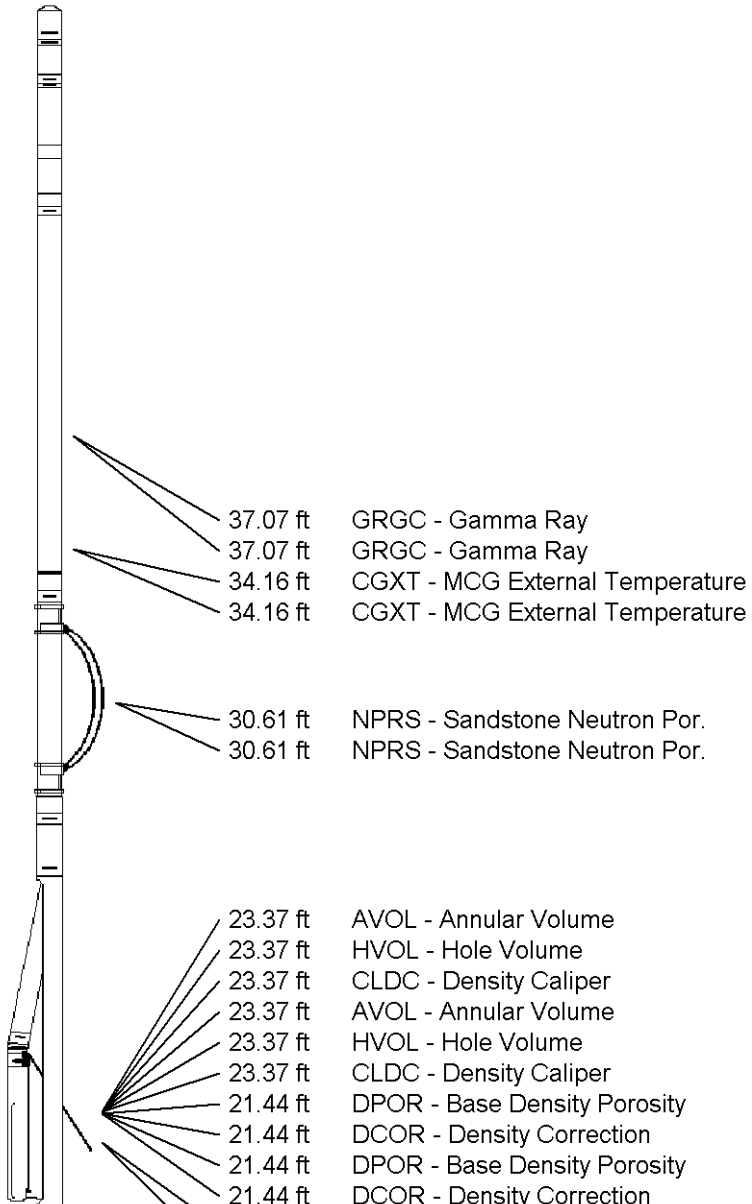
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↑ **5 INCH MAIN LOG** ↑

DOWNHOLE EQUIPMENT

C:\LOGS\Bill Barrett\Kaufman 13B-25-692\Repeat.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
- 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-F Compact Swivel Head Adaptor
SHA-F 82 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in
- SHA-F Compact Swivel Head Adaptor
SHA-F 82 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in
- Compact Comms Gamma
MCG-D.A 287 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in
- Compact Comms Gamma
MCG-D.A 287 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 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
- Compact Density/Caliper
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
- SKJ-D.A Compact Knuckle Joint
SKJ-D.A 114 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in
- Compact Forward Electric



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

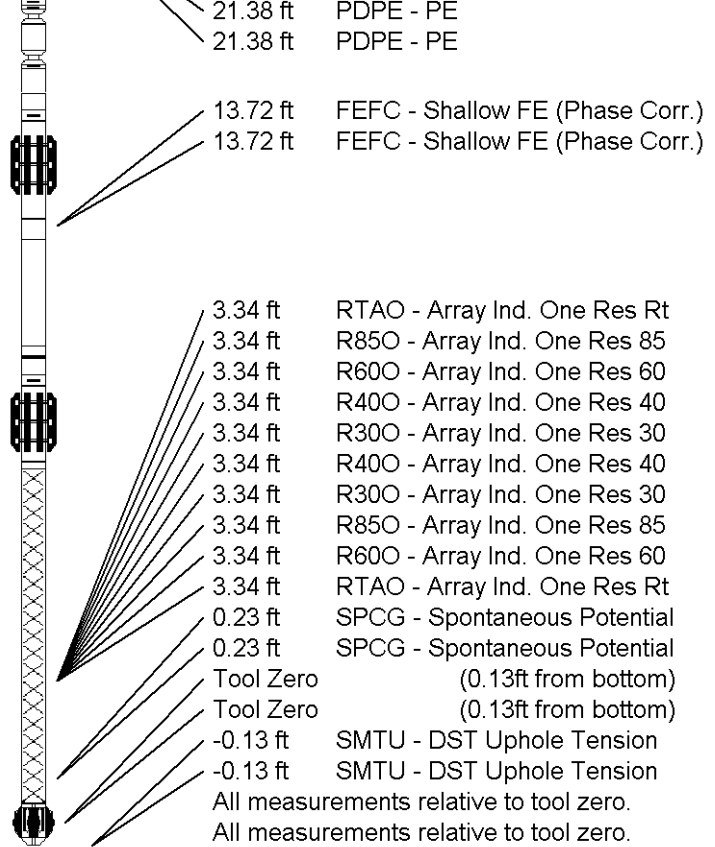
Compact Focussed Electric
MFE-A.A 85 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

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 KAUFMAN 13B-25-692
FIELD MAMM CREEK
PROVINCE/COUNTY GARFIELD
COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	5945.00	feet	First Reading	7117.00
Elevation Drill Floor	5944.00	feet	Depth Driller	7525.00 feet
Elevation Ground Level	5922.00	feet	Depth Logger	7140.00 feet



HOLE VOLUME
CALIPER LOG

