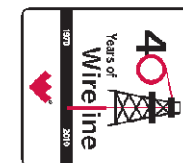




**Weatherford**

**HOLE VOLUME  
CALIPER  
LOG**

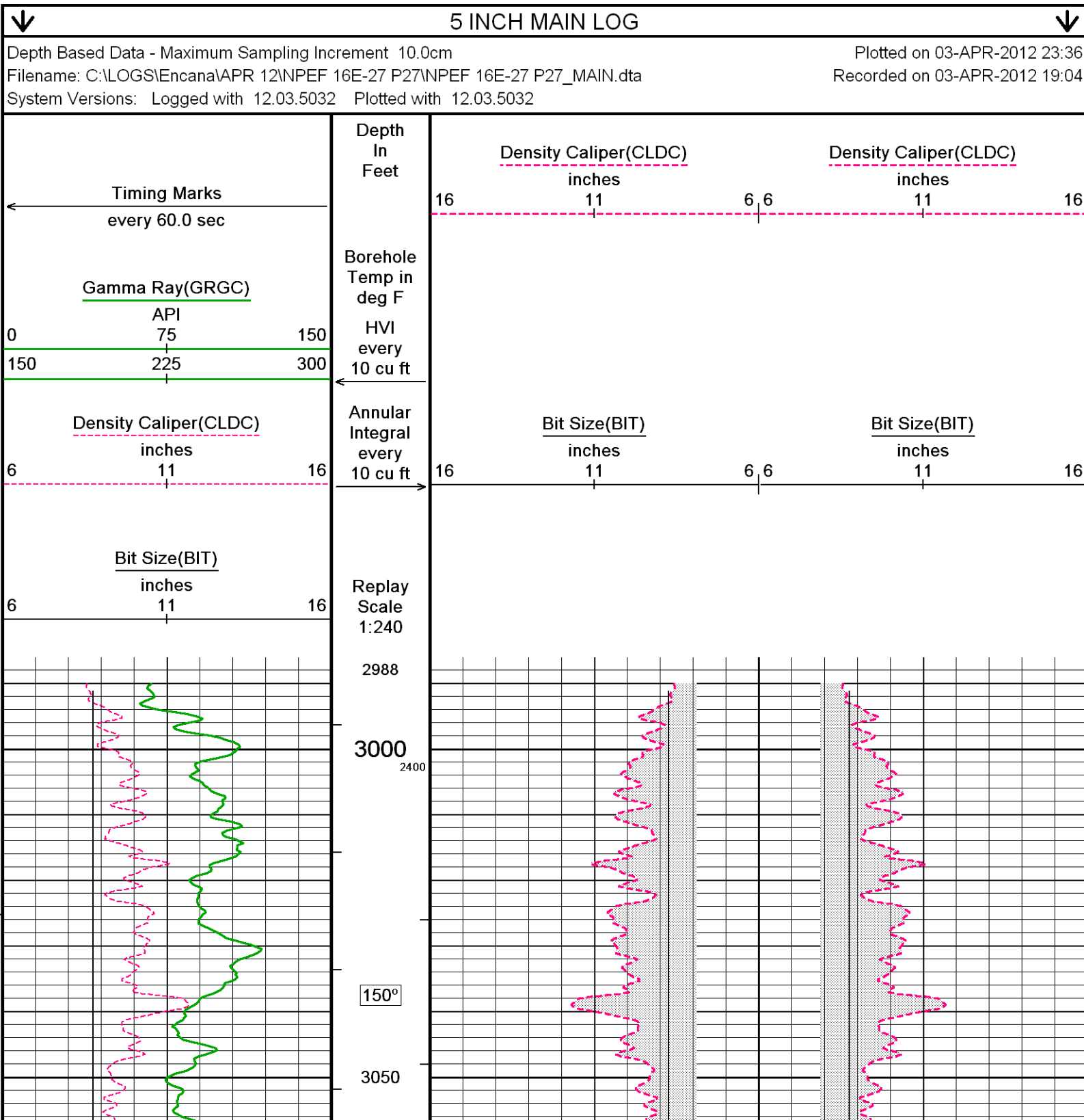


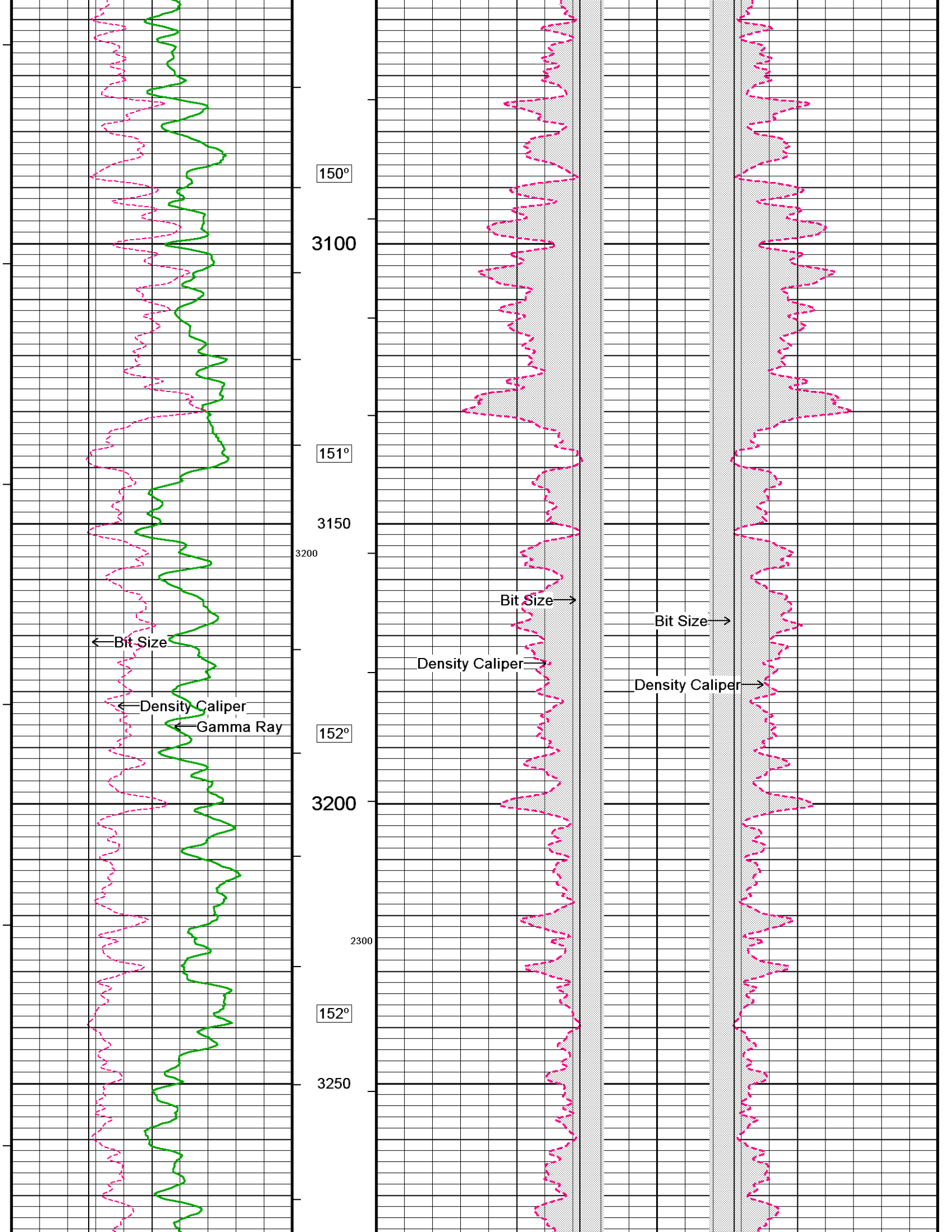
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|------------------------|---------------------------|---------------|----------------|
| COMPANY                | ENCANA                    |               |                |
| WELL                   | NPEF 16E-27 P27           |               |                |
| FIELD                  | NORTH PARACHUTE           |               |                |
| PROVINCE/COUNTY        | GARFIELD                  |               |                |
| COUNTRY/STATE          | U.S.A. / COLORADO         |               |                |
| LOCATION               | SHL: 652' FSL 559' FEL    |               |                |
|                        | BHL: 384' FSL 1677' FEL   |               |                |
| LSD                    | SEC                       | TWP           | RGE            |
| 0                      | 27                        | 5S            | 95W            |
|                        |                           |               | Other Services |
|                        |                           |               | MPD/MDN        |
| API Number             | 05-045-202960000          |               |                |
| Permit Number          | 05-045-202960000          |               |                |
| MAI/MFE                |                           |               |                |
| Permanent Datum        | G.L., Elevation 6649 feet |               |                |
| Log Measured From      | KB                        |               |                |
| Drilling Measured From | K.B.                      |               |                |
| Date                   | 03-APR-2012               |               |                |
| Run Number             | ONE                       |               |                |
| Depth Driller          | 11060.00                  | feet          |                |
| Depth Logger           | 11047.00                  | feet          |                |
| First Reading          | 11018.00                  | feet          |                |
| Last Reading           | 3000.00                   | feet          |                |
| Casing Driller         | 1820.00                   | feet          |                |
| Casing Logger          | 1817.00                   | feet          |                |
| Bit Size               | 7.875                     | inches        |                |
| Hole Fluid Type        | LSND                      |               |                |
| Density / Viscosity    | 11.20 lb/USg              | 77.00         |                |
| PH / Fluid Loss        | 8.90                      | 3.00 ml/30Min |                |
| Sample Source          | FLOWLINE                  |               |                |
| Rm @ Measured Temp     | 2.60 @ 90.0               | ohm-m         |                |
| Rmf @ Measured Temp    | 2.08 @ 90.0               | ohm-m         |                |
| Rmc @ Measured Temp    | 3.12 @ 90.0               | ohm-m         |                |
| Source Rmf / Rmc       | CALC                      | CALC          |                |
| Rm @ BHT               | 0.924 @259.0              | ohm-m         |                |
| Time Since Circulation | 3 HOURS                   |               |                |
| Max Recorded Temp      | 259.00                    | deg F         |                |
| Equipment Name         | COMPACT                   |               |                |
| Equipment / Base       | 13173                     | GDUCT         |                |
| Recorded By            | S. LACKEY                 |               | A. GALOYAN     |
| Witnessed By           | C.HUSEBY                  |               |                |

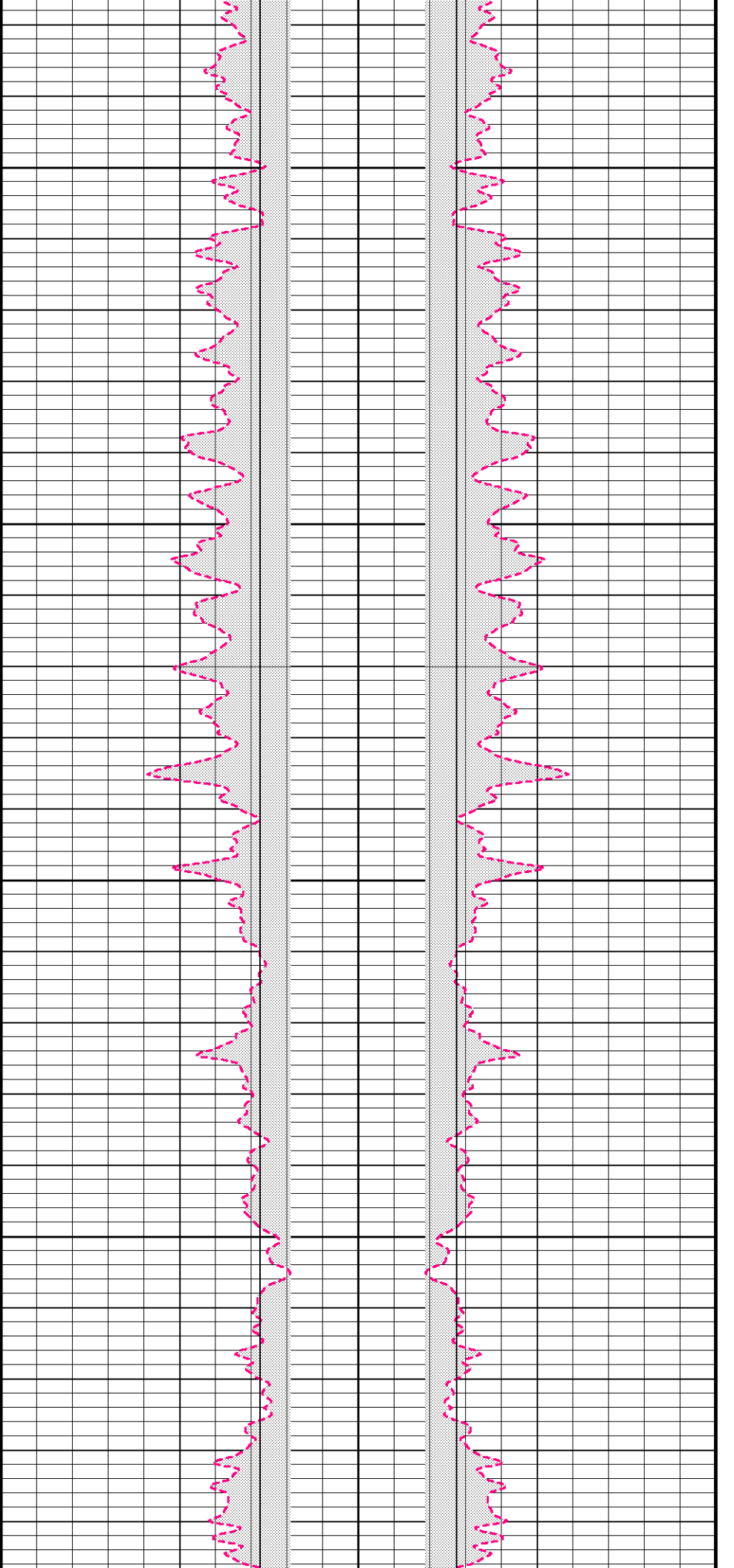
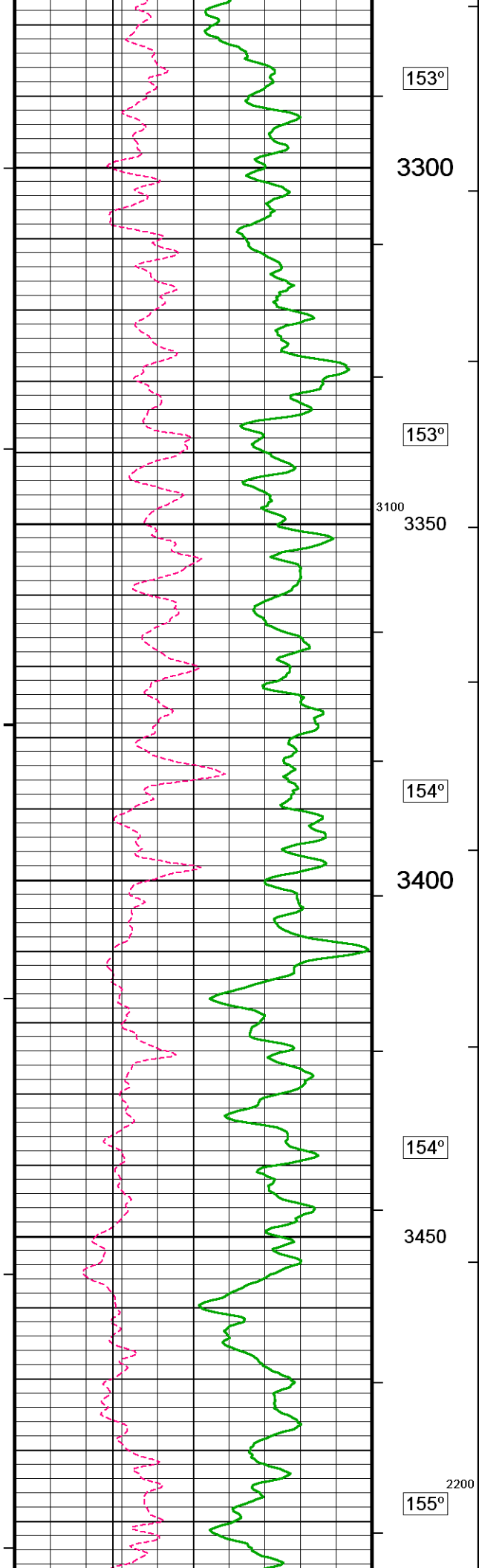
| BOREHOLE RECORD    |                    |                  | Last Edited: 03-APR-2012 21:44 |
|--------------------|--------------------|------------------|--------------------------------|
| Bit Size<br>inches | Depth From<br>feet | Depth To<br>feet |                                |
| 8.750              | 1817.00            | 7708.00          |                                |
| 7.875              | 7708.00            | 11047.00         |                                |

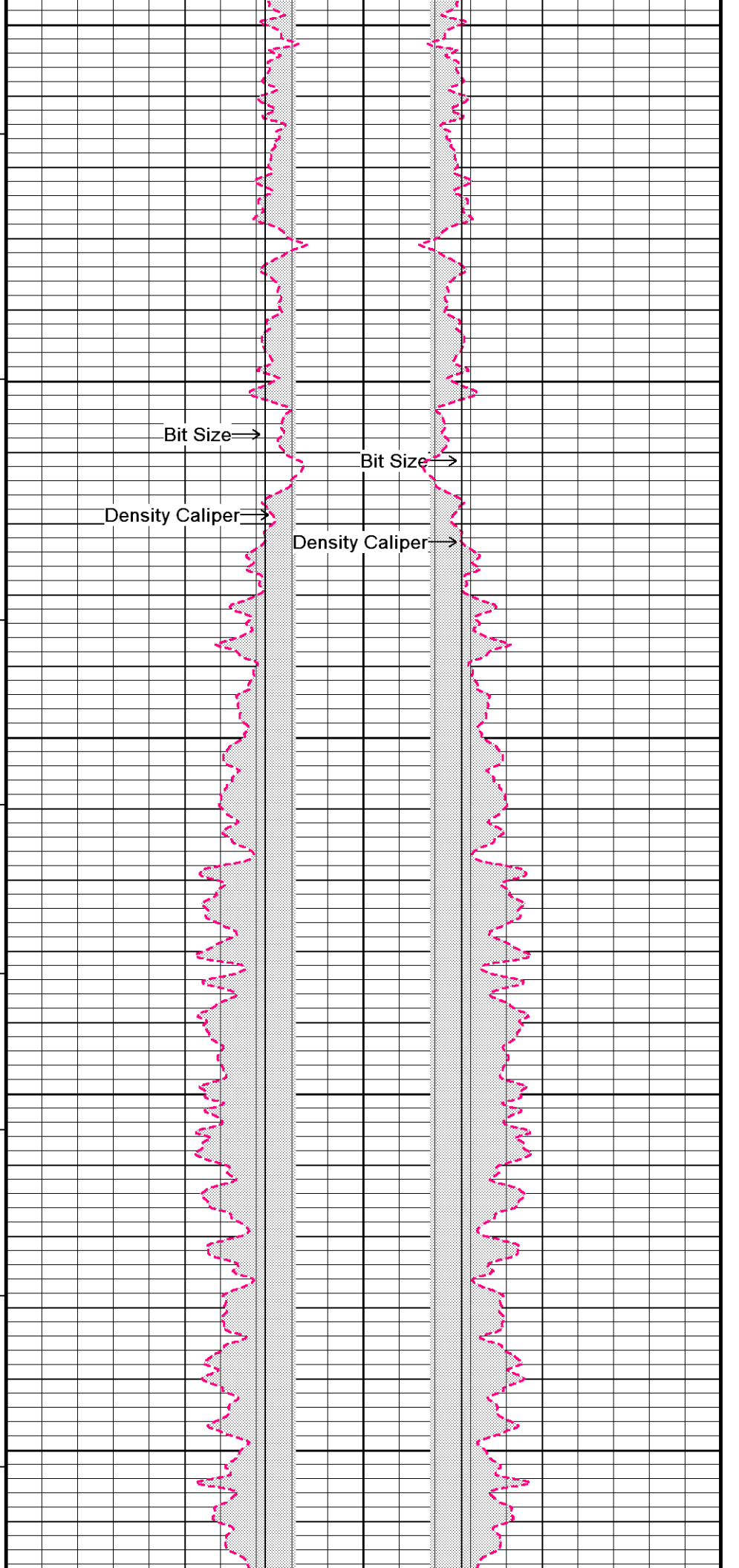
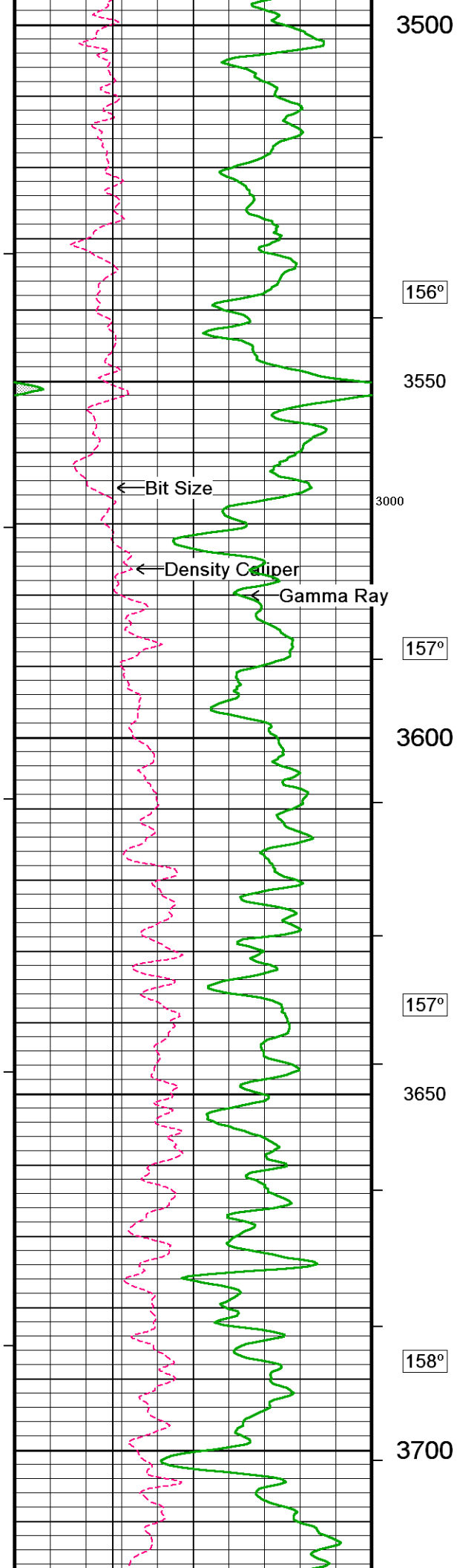
| CASING RECORD |                |                    |                    |                     |
|---------------|----------------|--------------------|--------------------|---------------------|
| Type          | Size<br>inches | Depth From<br>feet | Shoe Depth<br>feet | Weight<br>pounds/ft |
| SURFACE       | 9.625          | 0.00               | 1817.00            | 36.00               |

| REMARKS   |
|---|
| TOOLS RAN: MCG, MDN, MPD, MFE, AND MAI RAN IN COMBINATION.  |
| SOFTWARE VERSION 12.03.5032 USED TO LOG WELL.   |
| HARDWARE RAN: MPD: 8 INCH PROFILE PLATE USED.<br>MFE: 0.5 INCH INLINE STANDOFF<br>MIS: DUAL BOW SPRING<br>MAI: 0.5 INCH INLINE STANDOFF |
| 2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.  |
| TIGHT PULLS, BOREHOLE SIZE, AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.  |
| SP SPIKE RELOCATED AT 8830 FT TO FIND BETTER CONDUCTIVITY   |
| TOTAL HOLE VOLUME FROM TD TO 3000 FT = 3290 CU.FT.  |

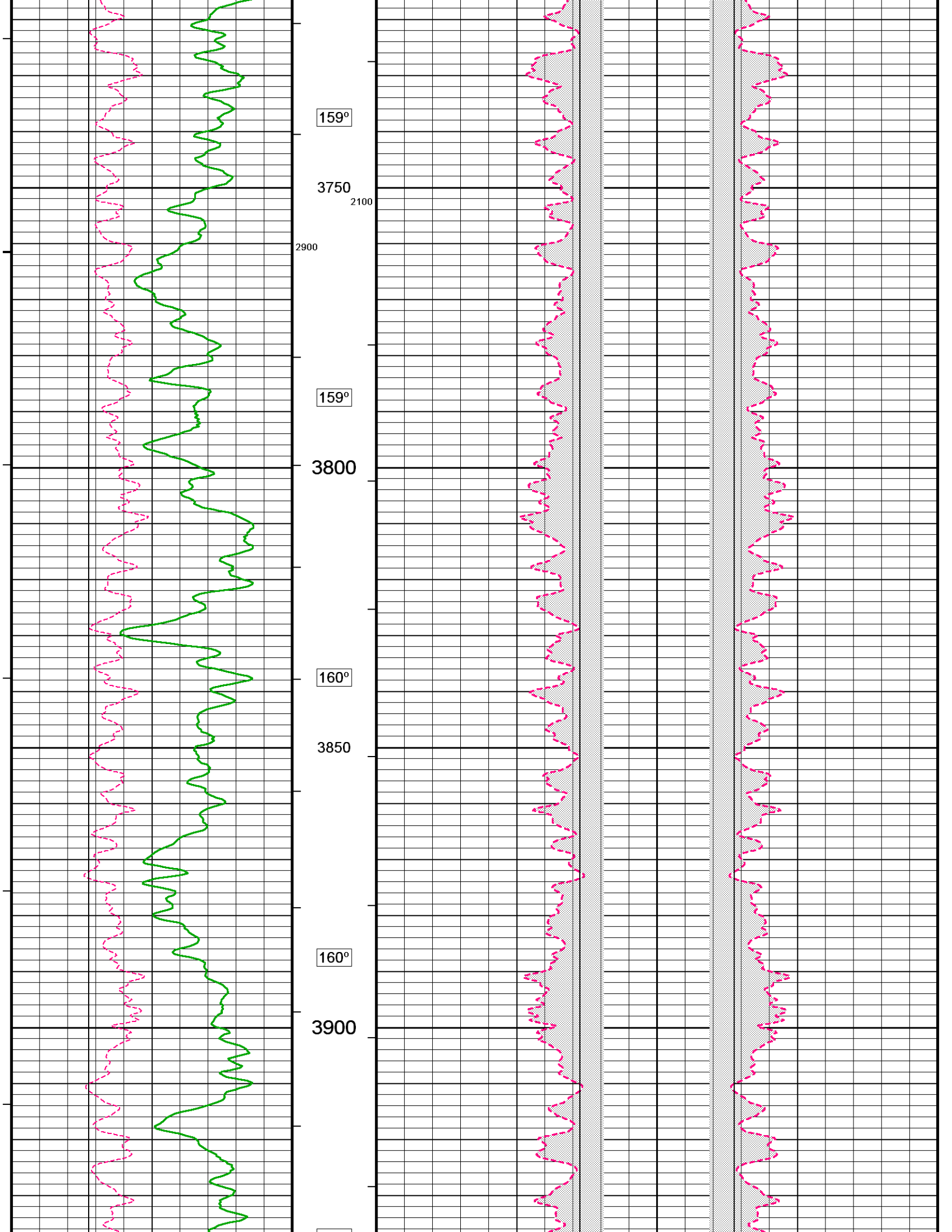


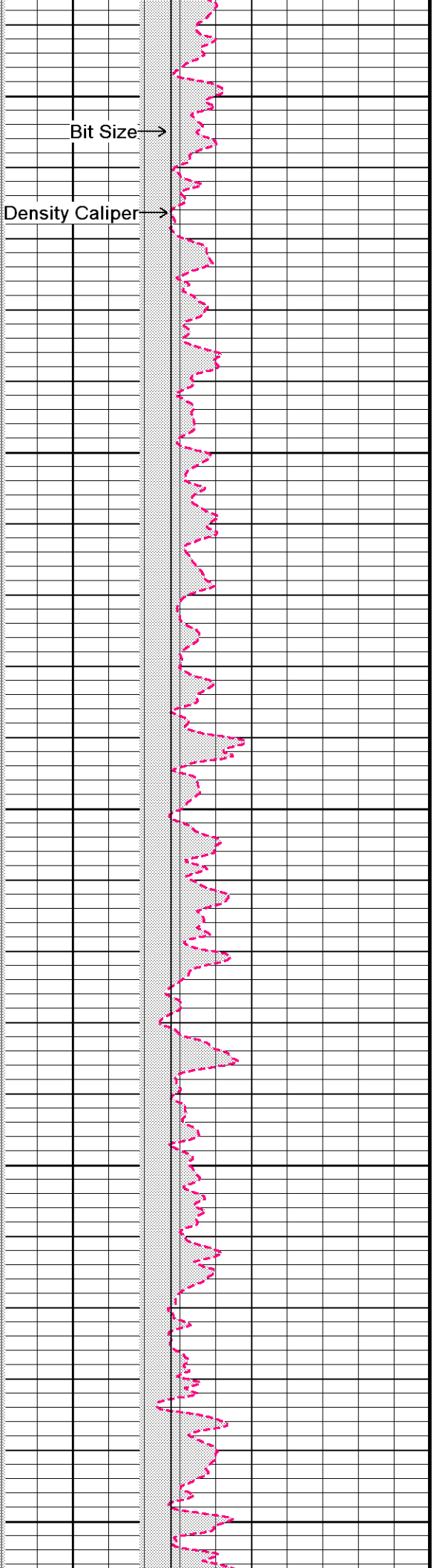
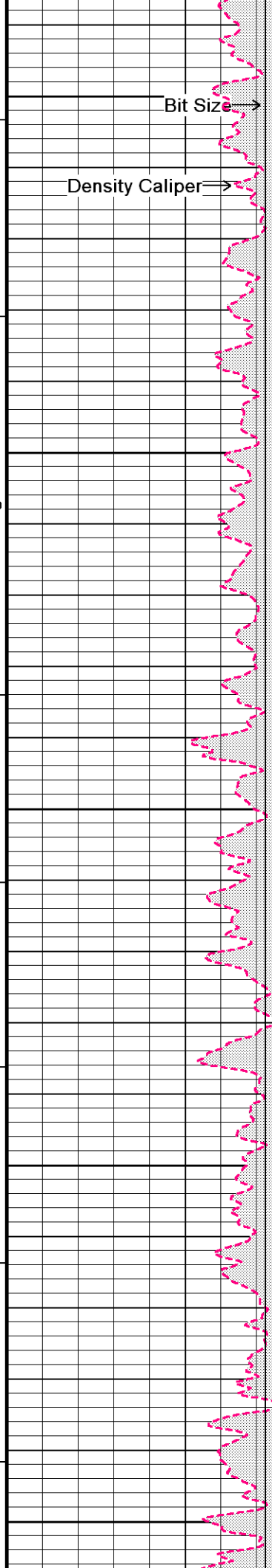
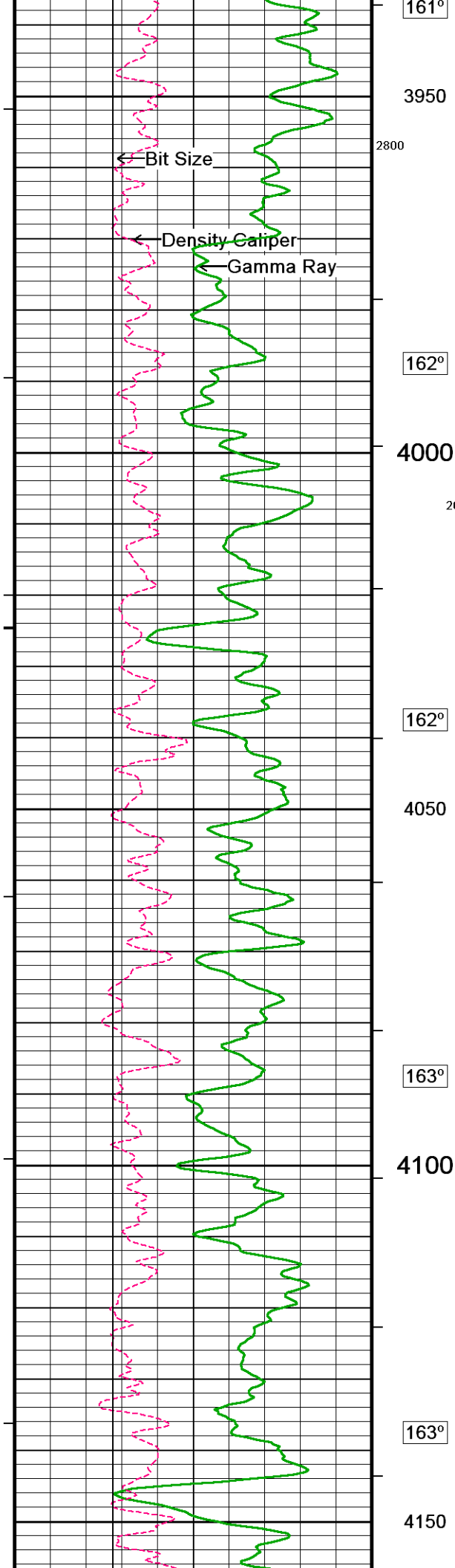


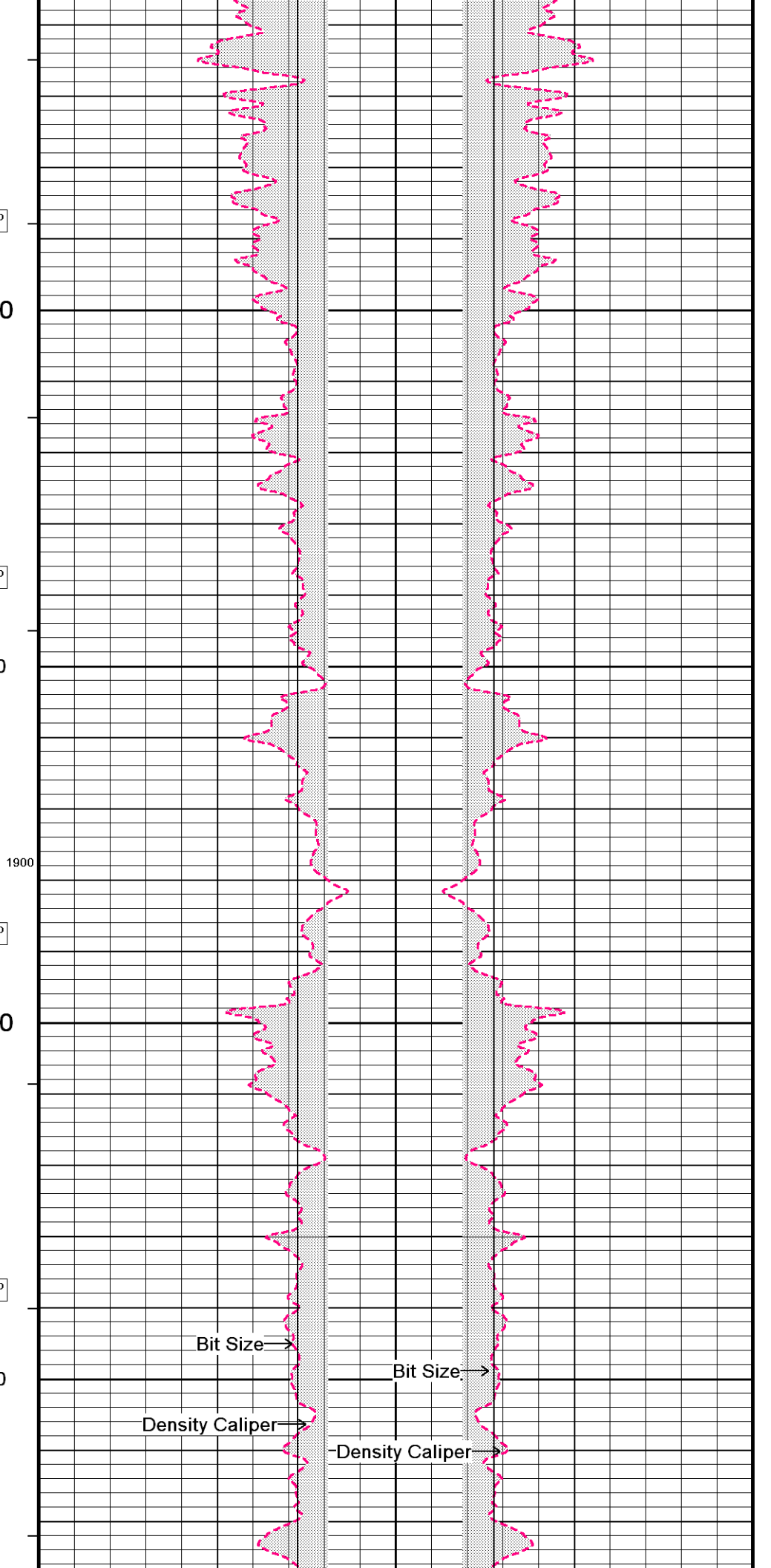
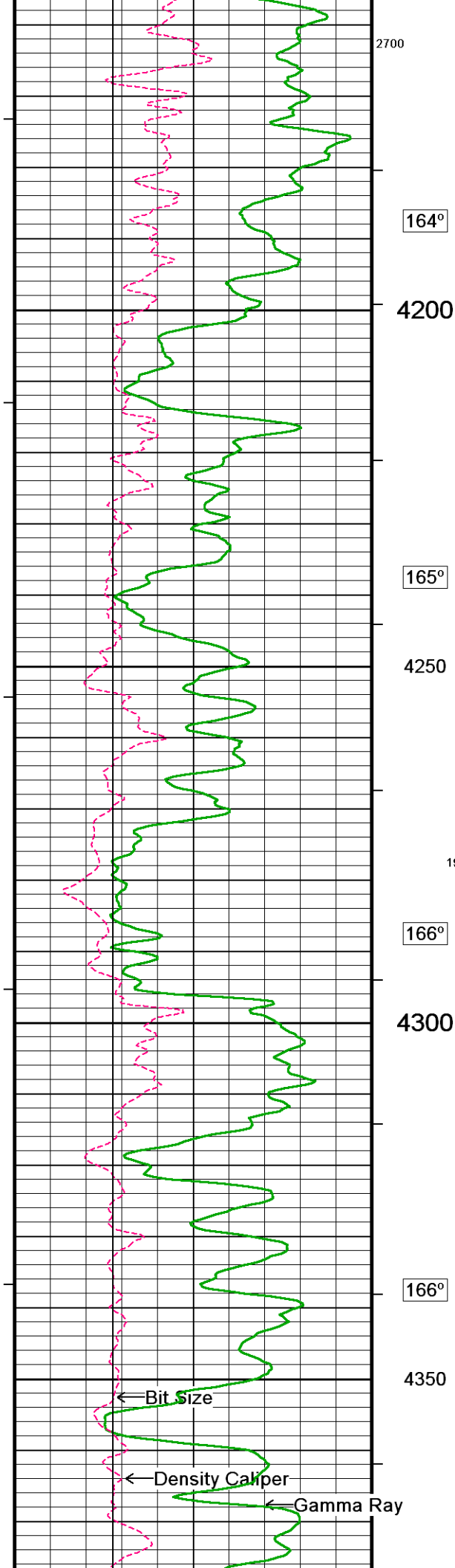




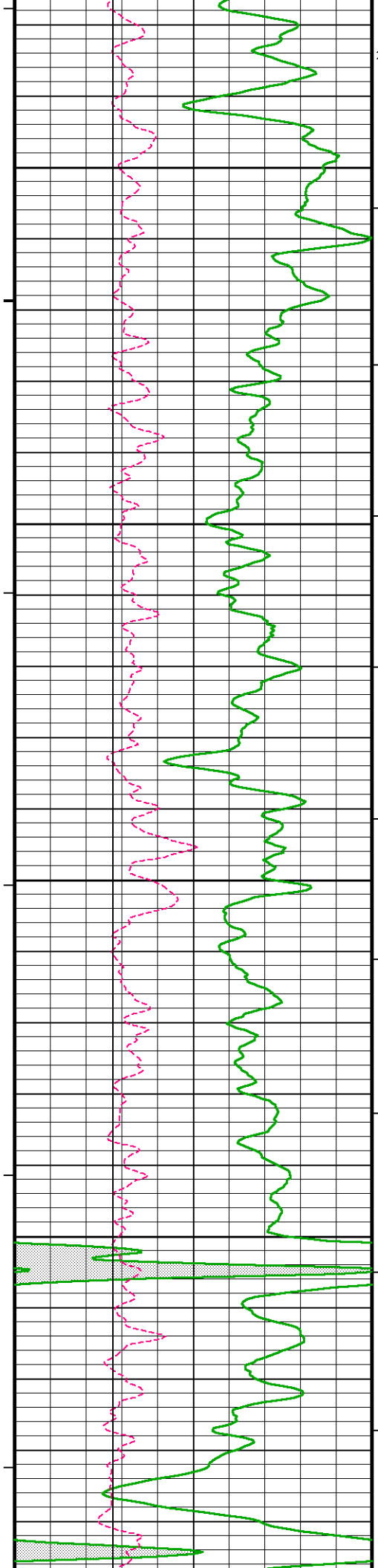












2600  
167°

4400

168°

4450

168°

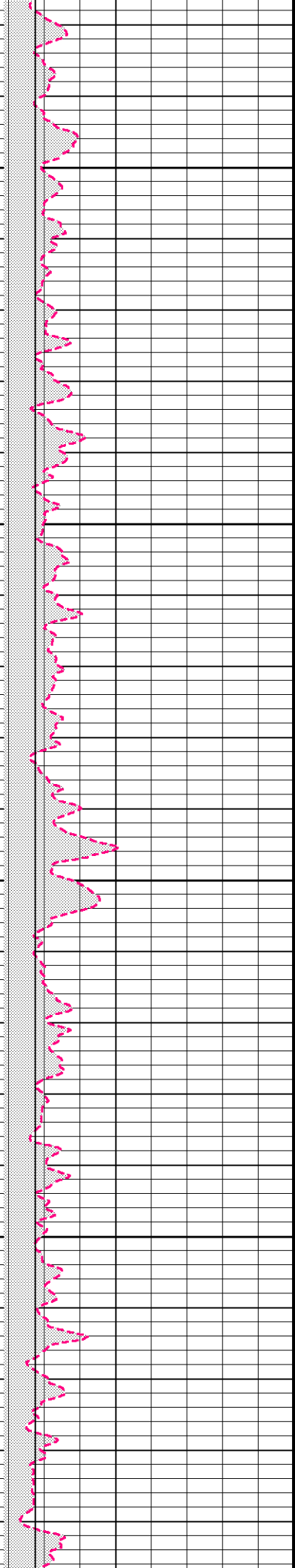
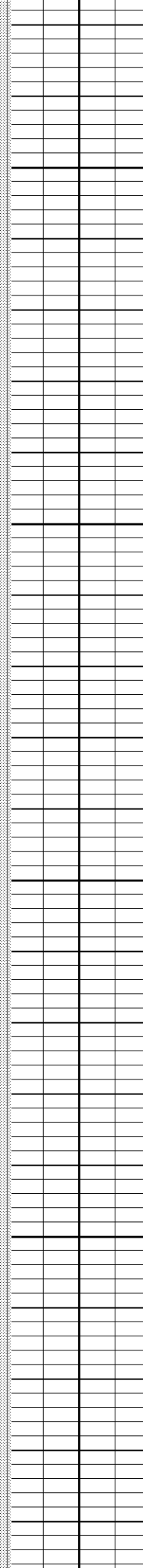
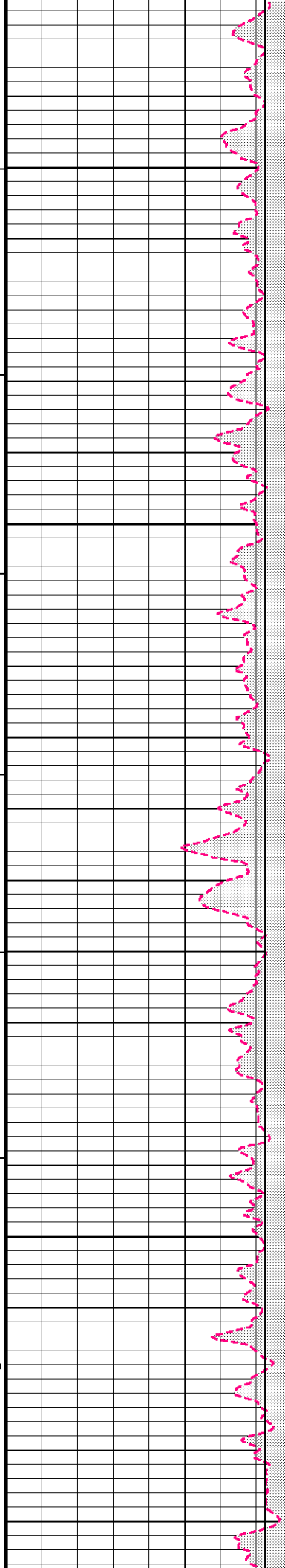
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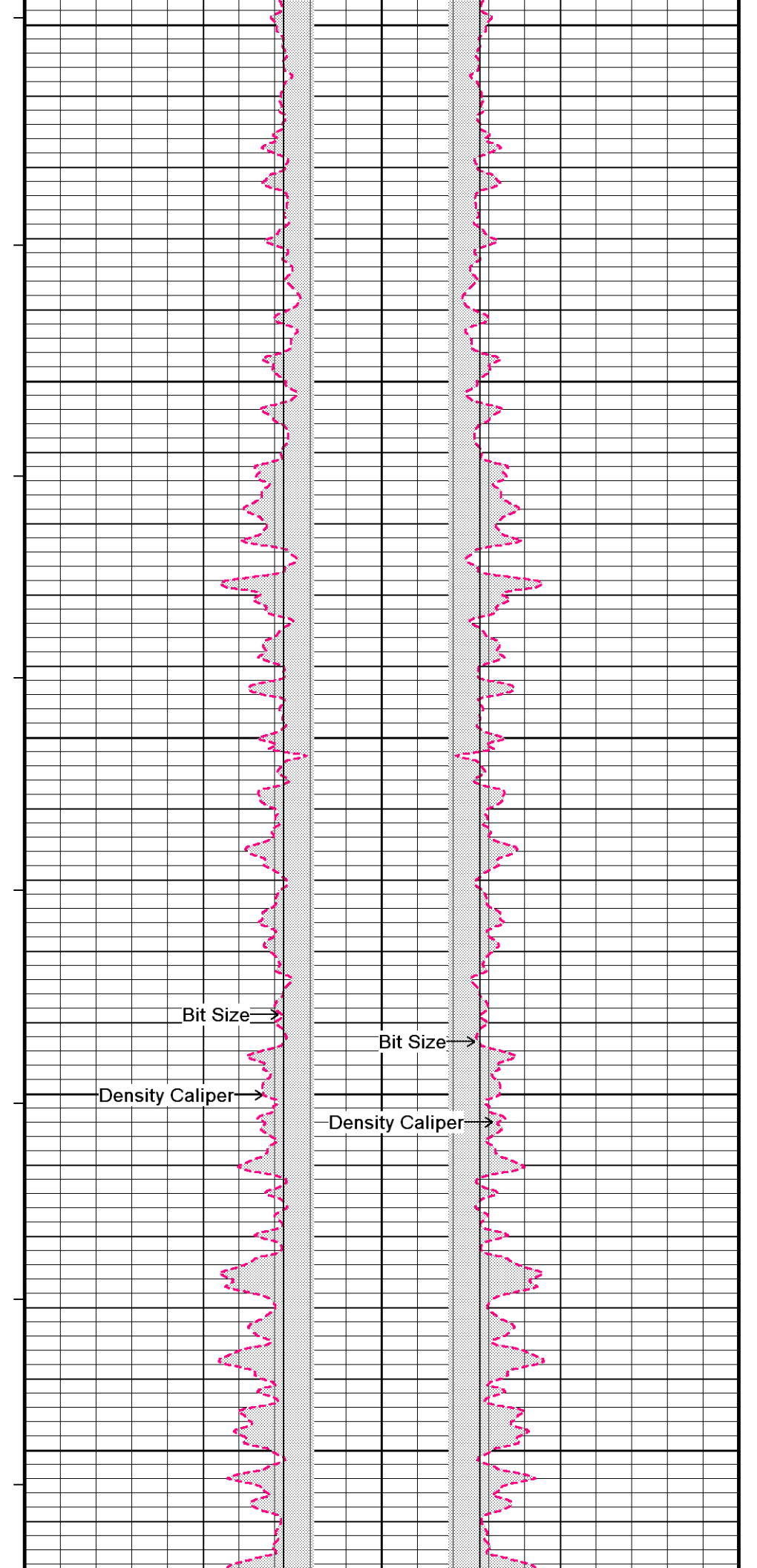
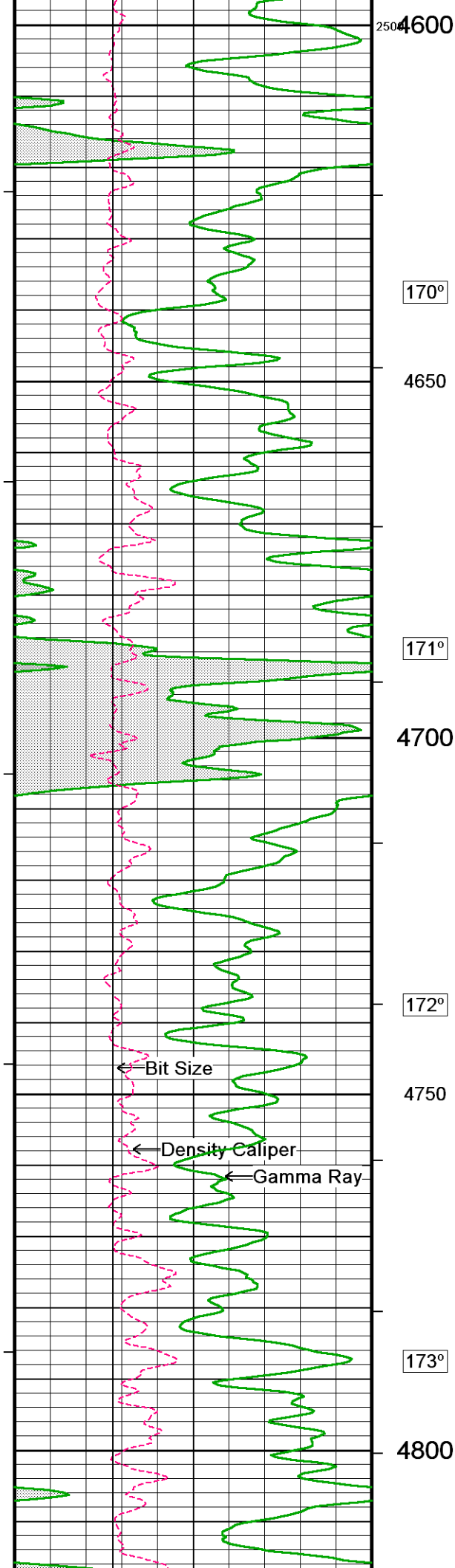
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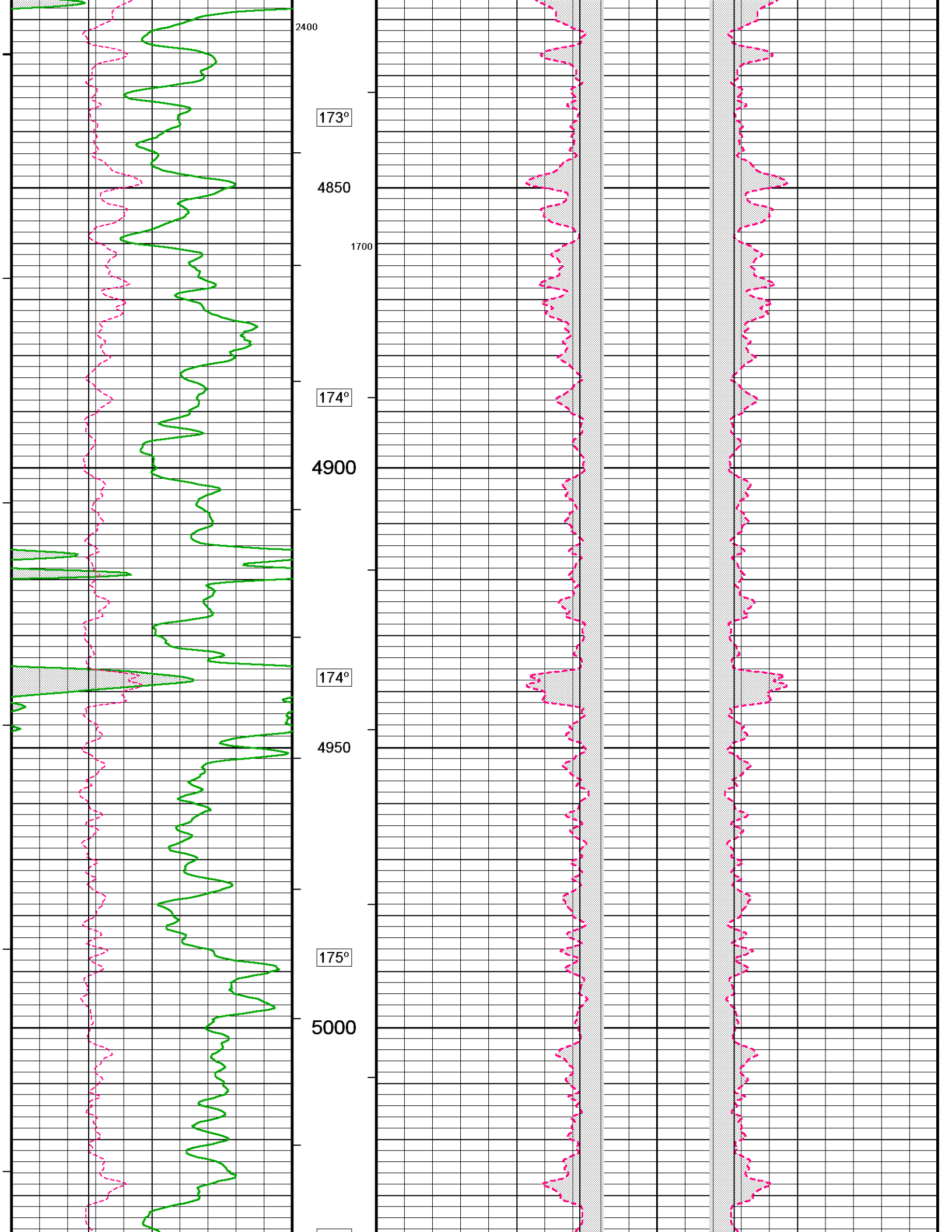
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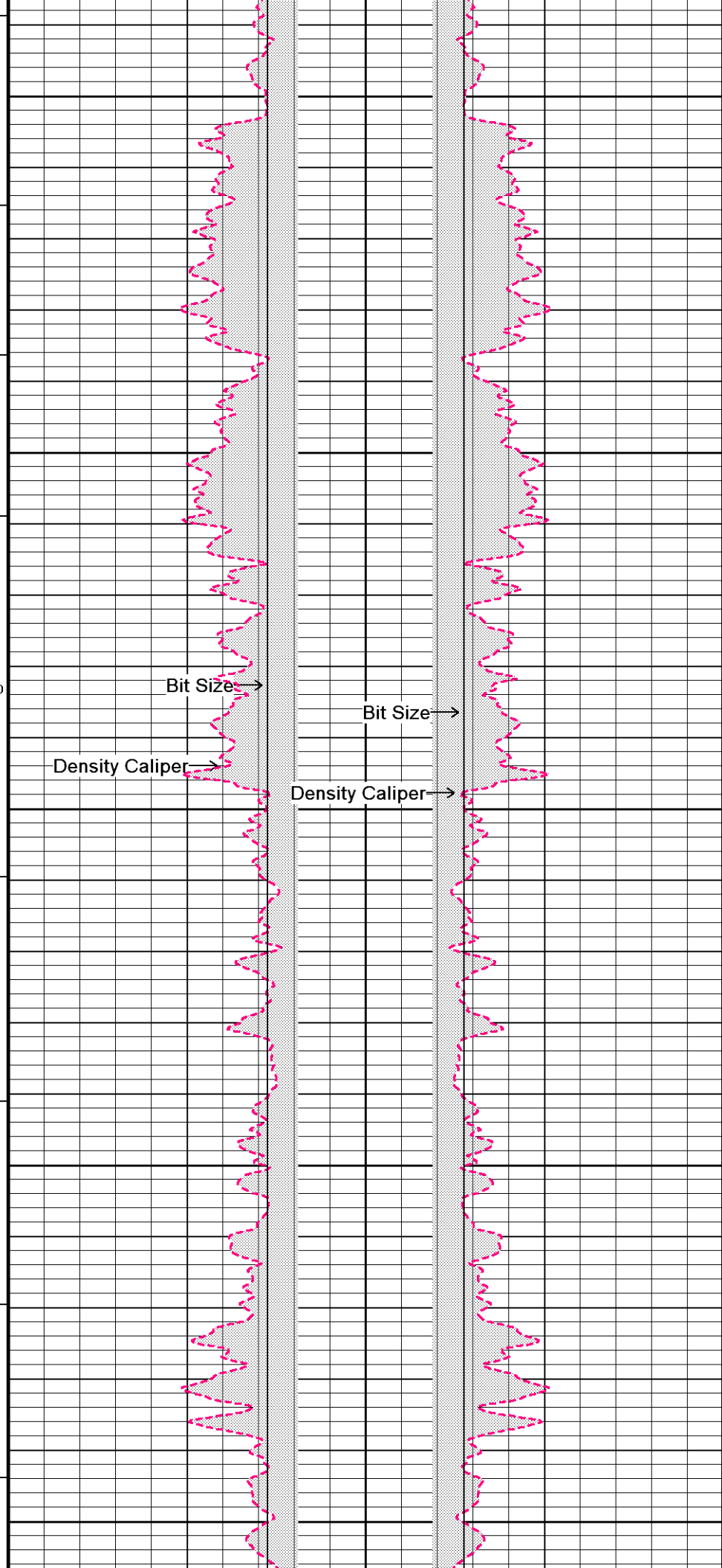
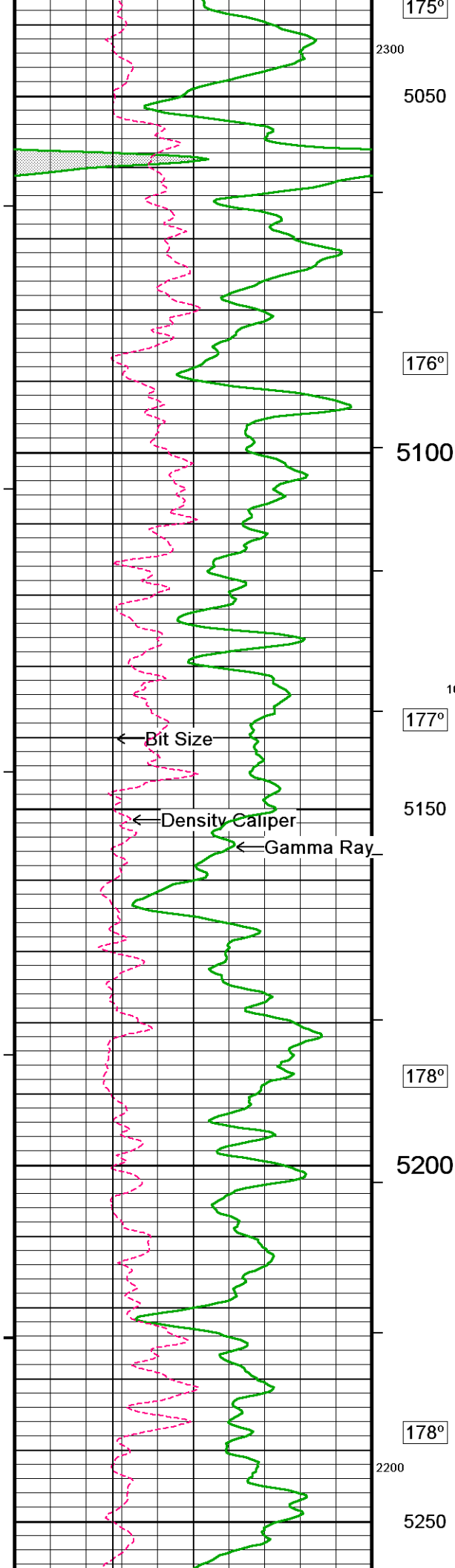
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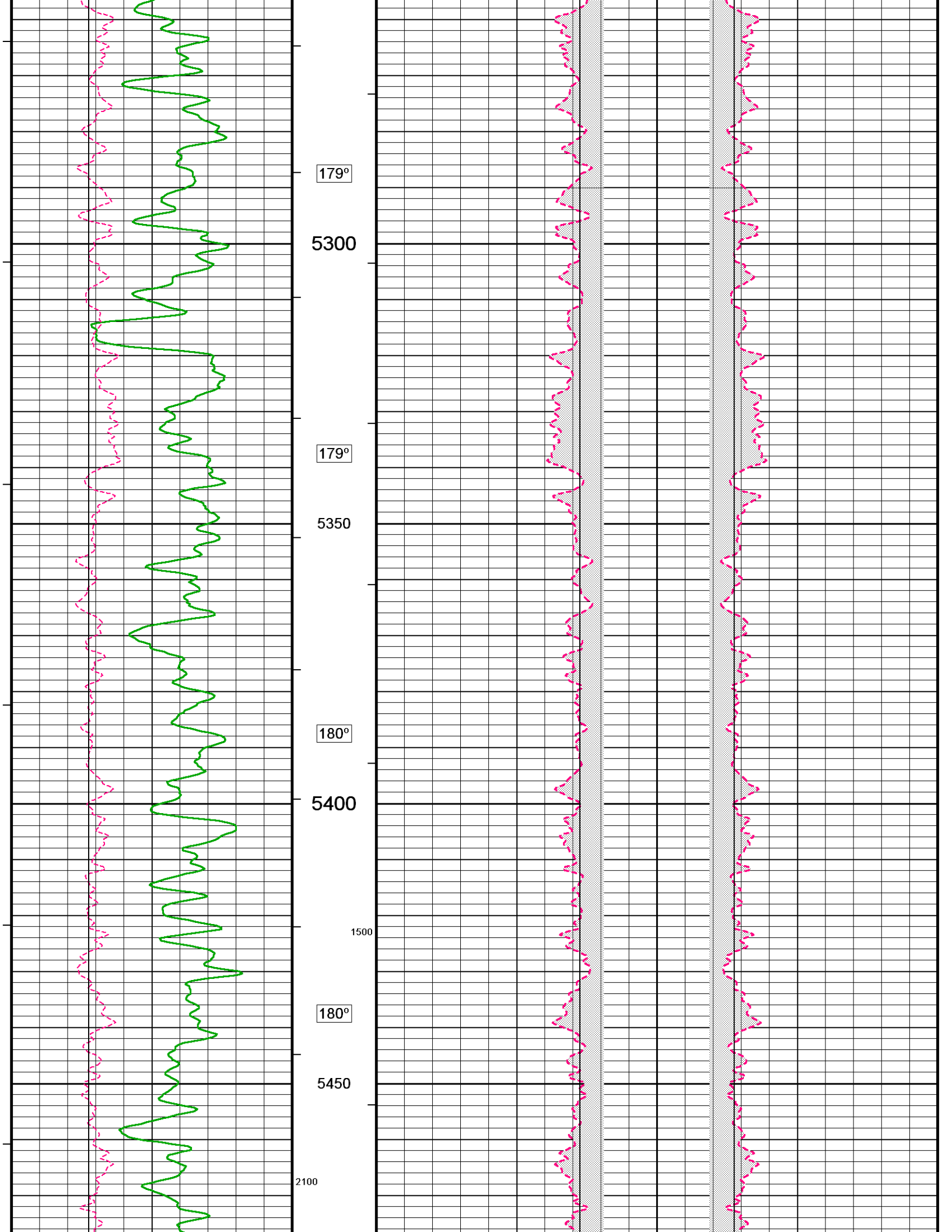
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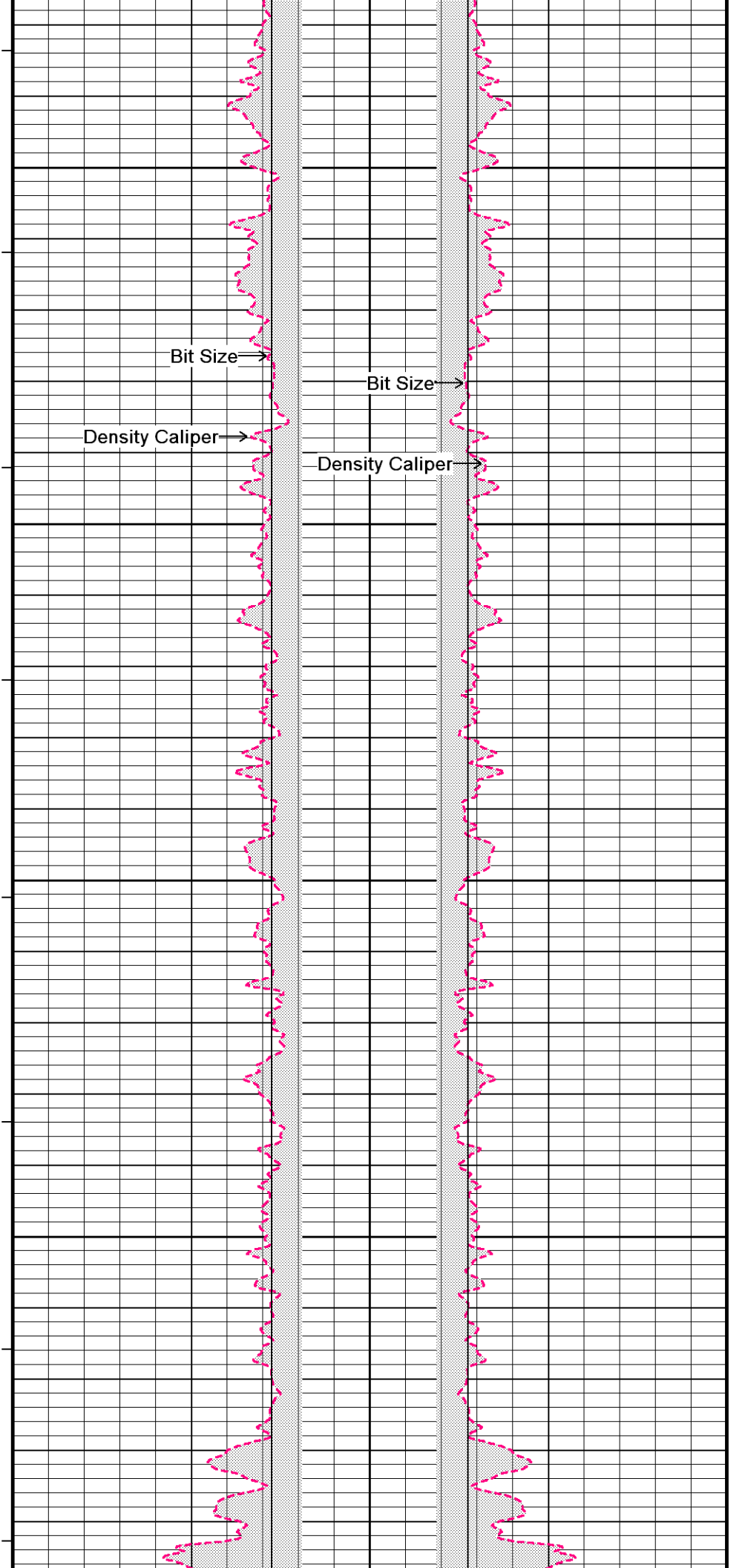
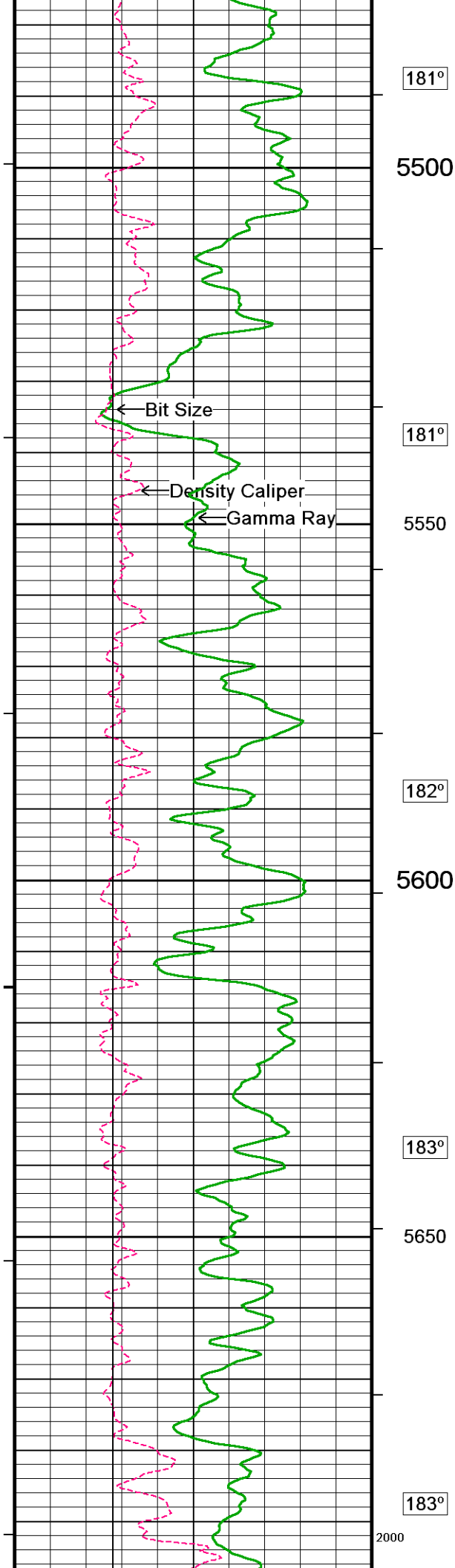


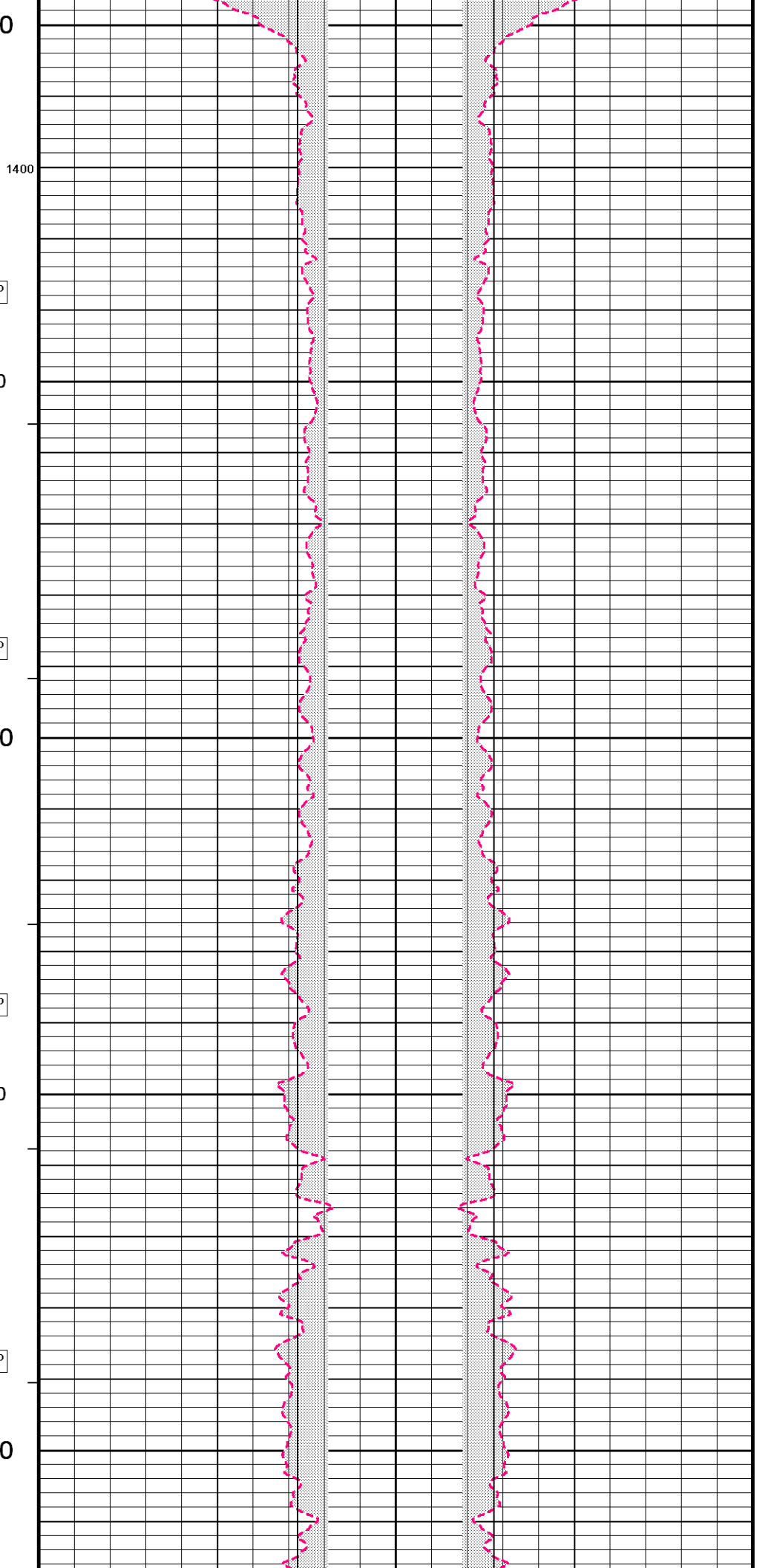
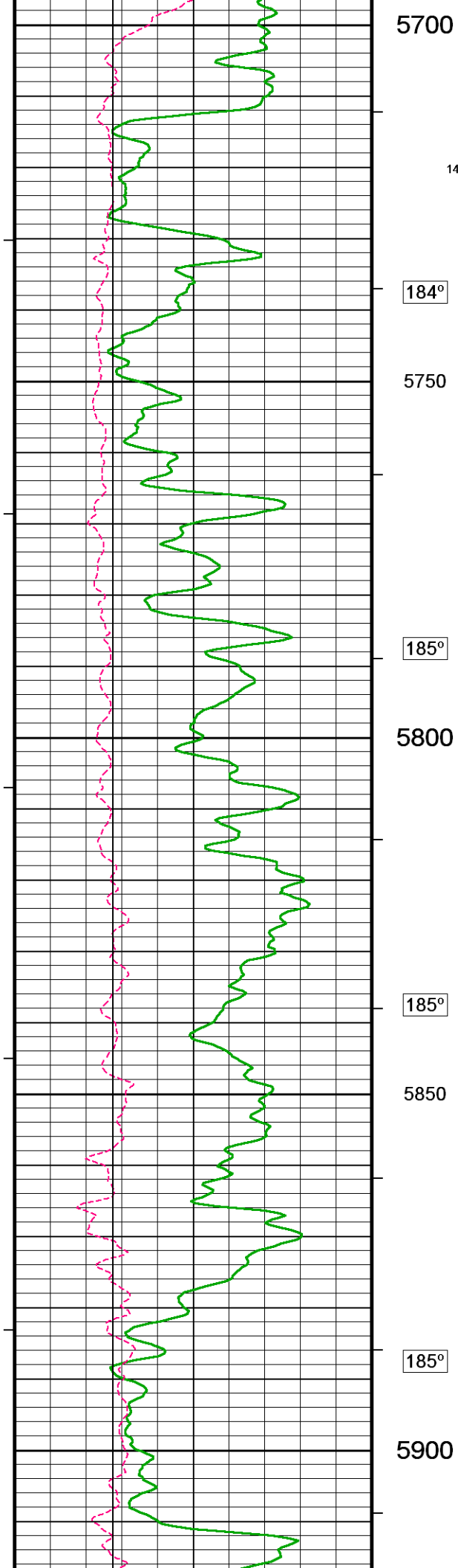


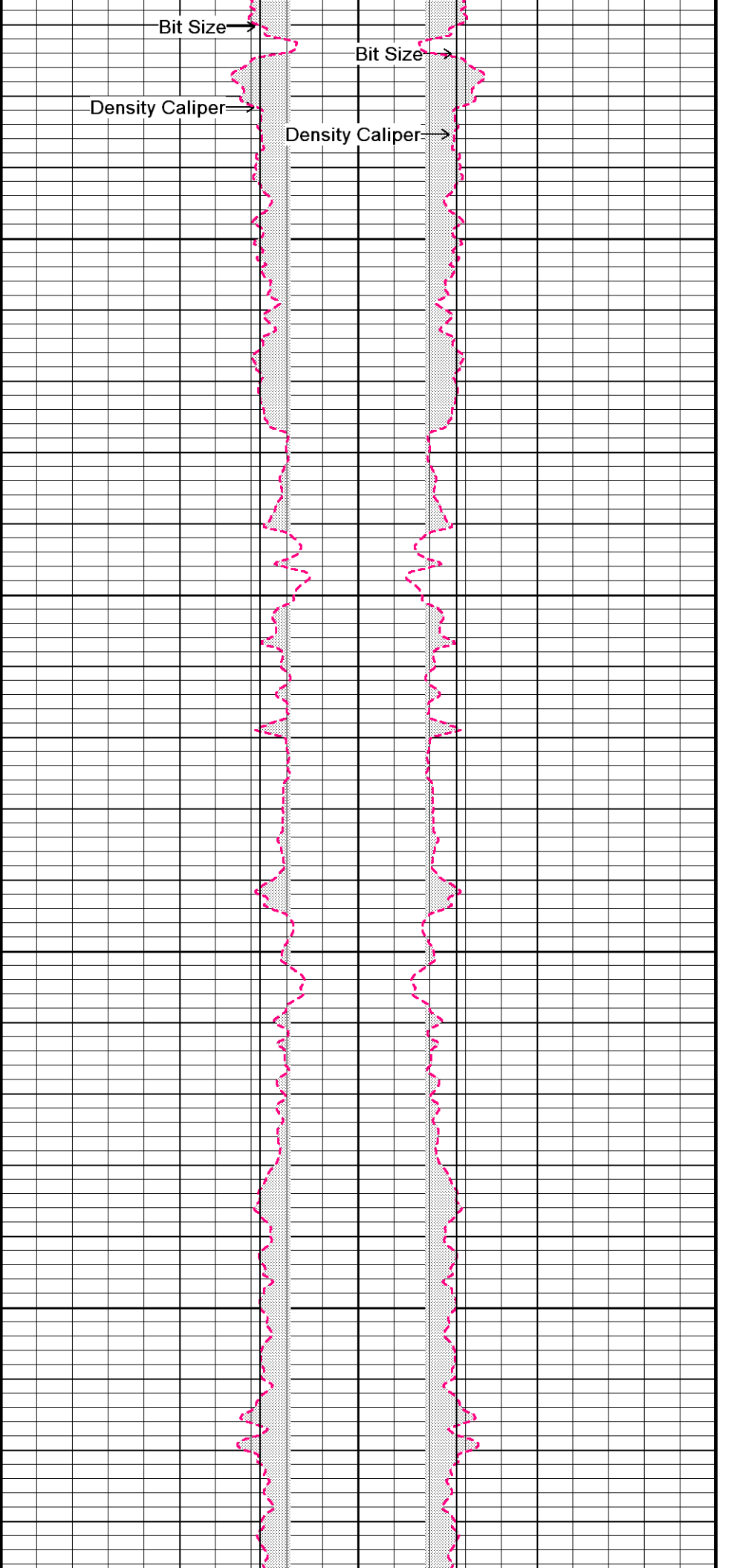
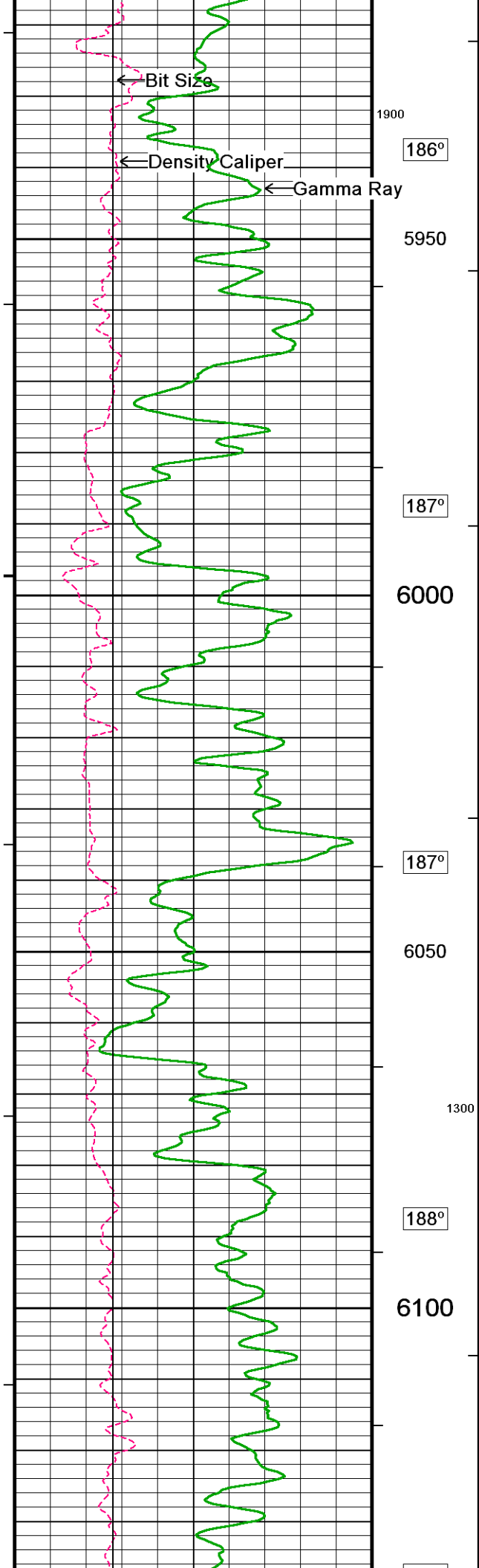


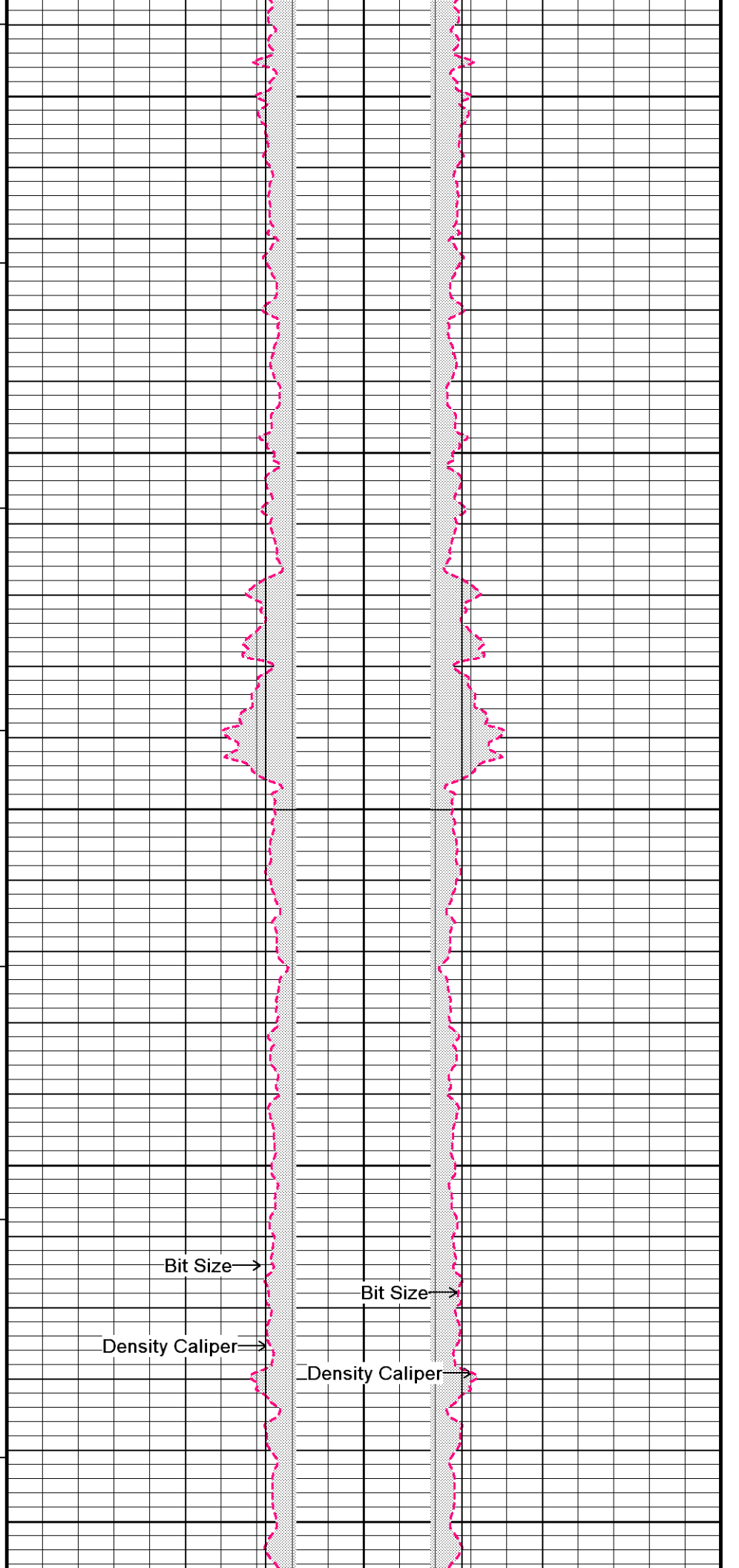
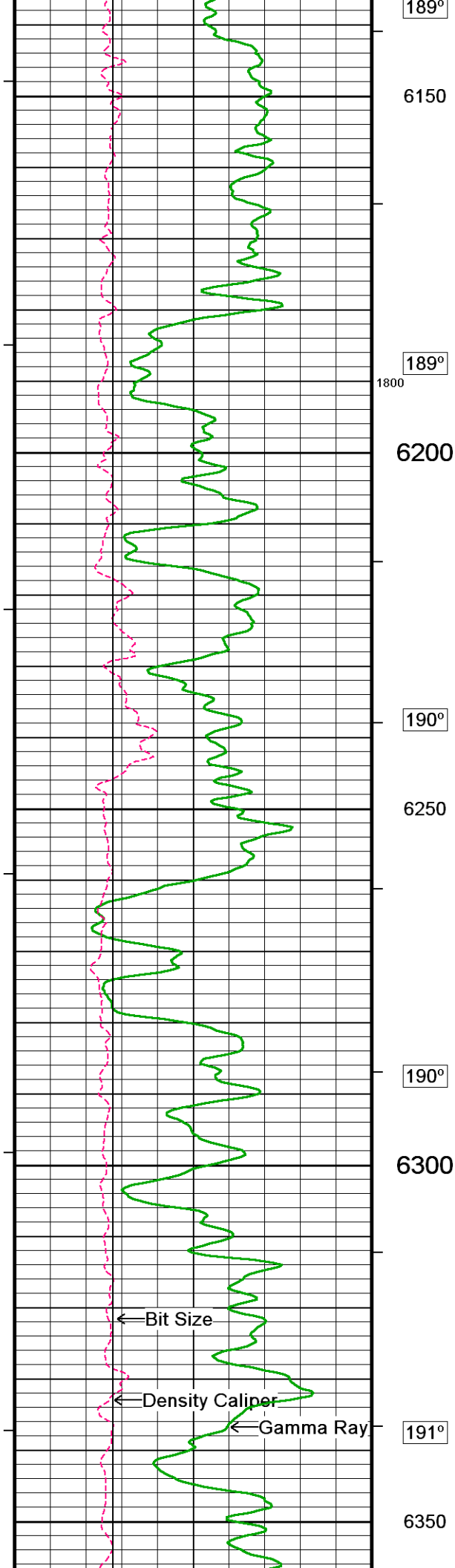


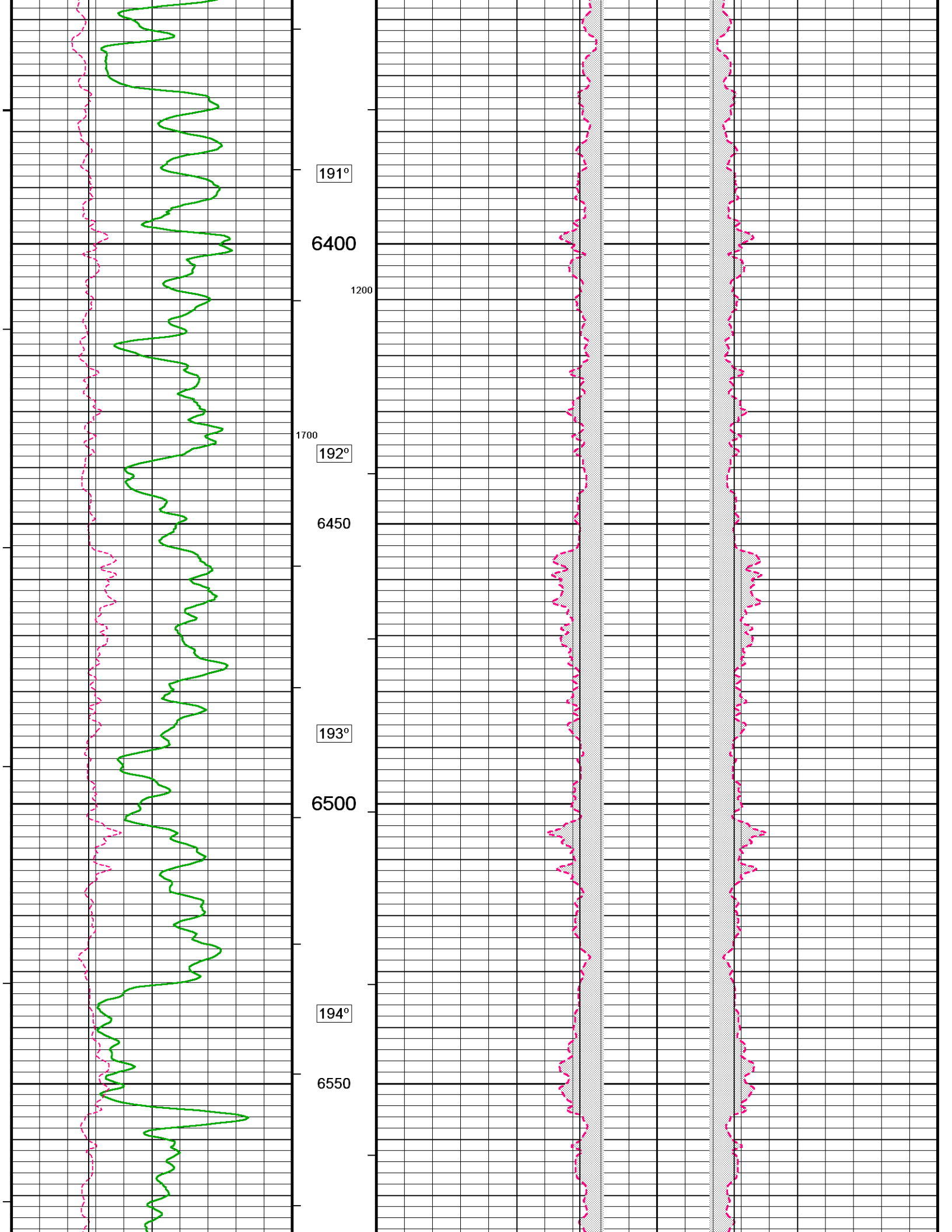




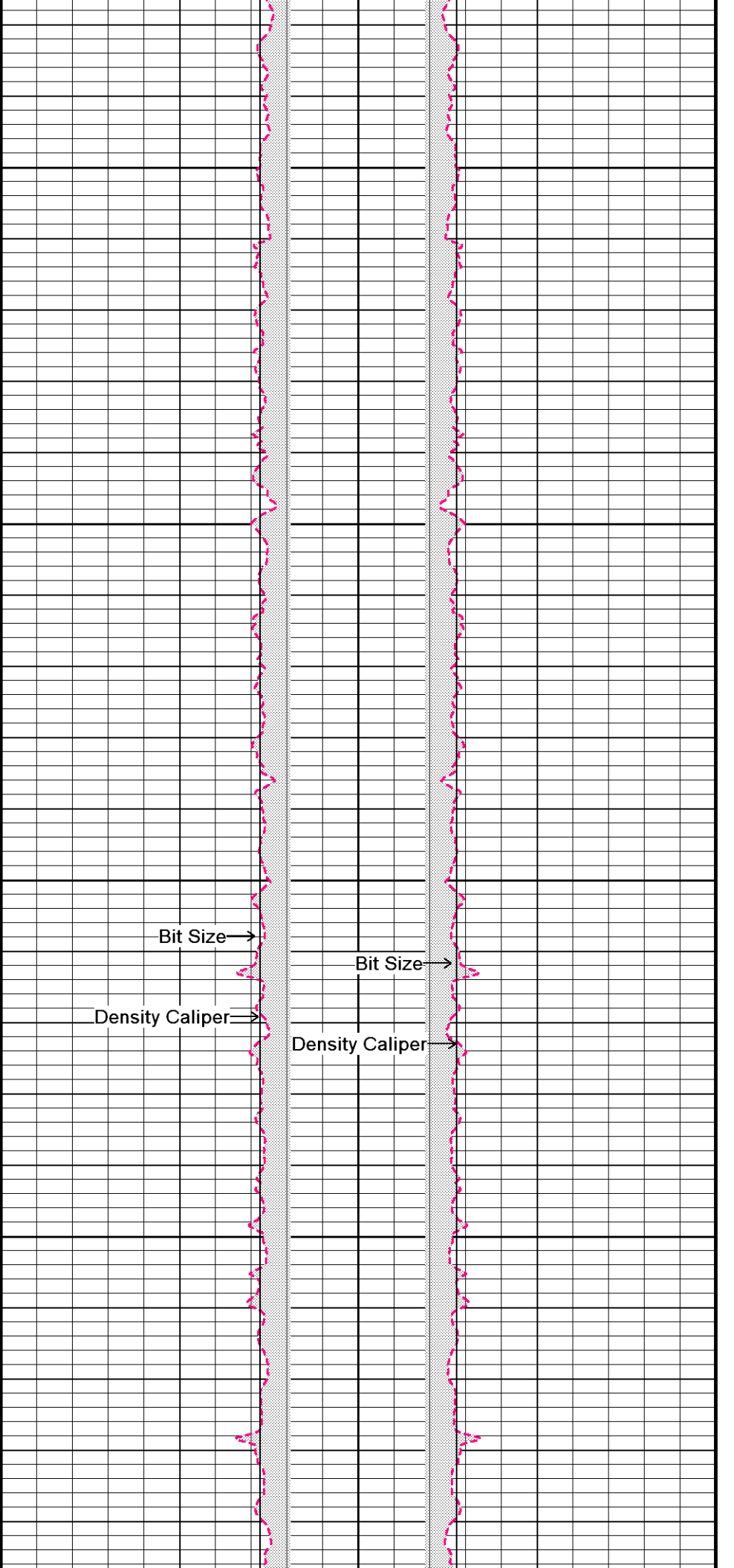
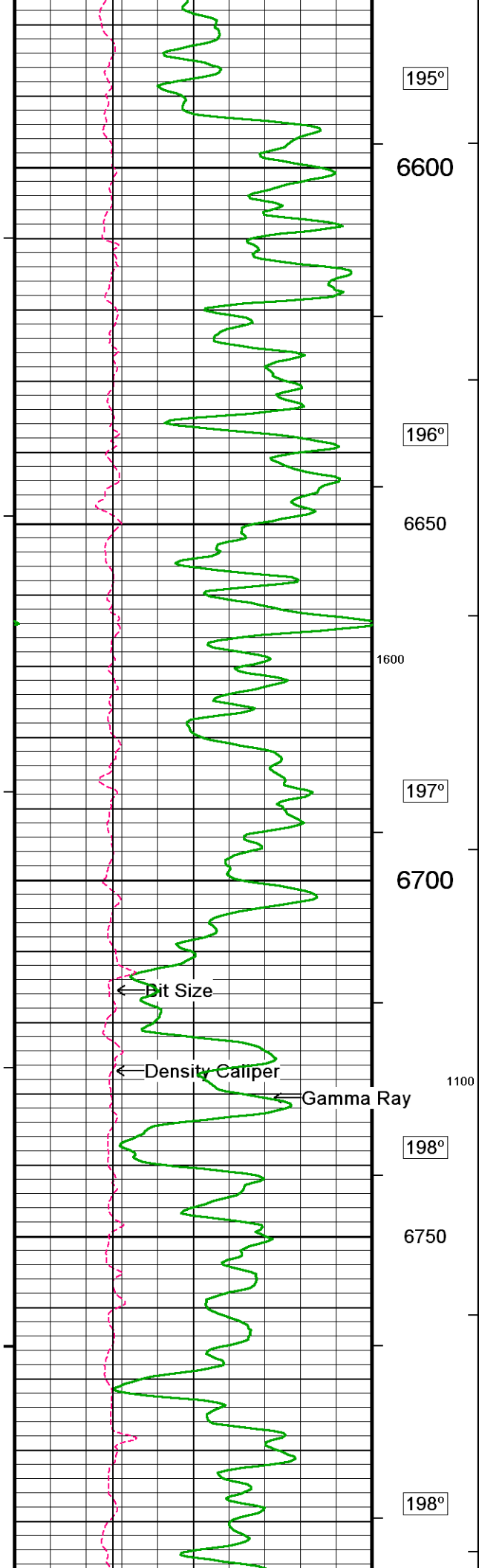


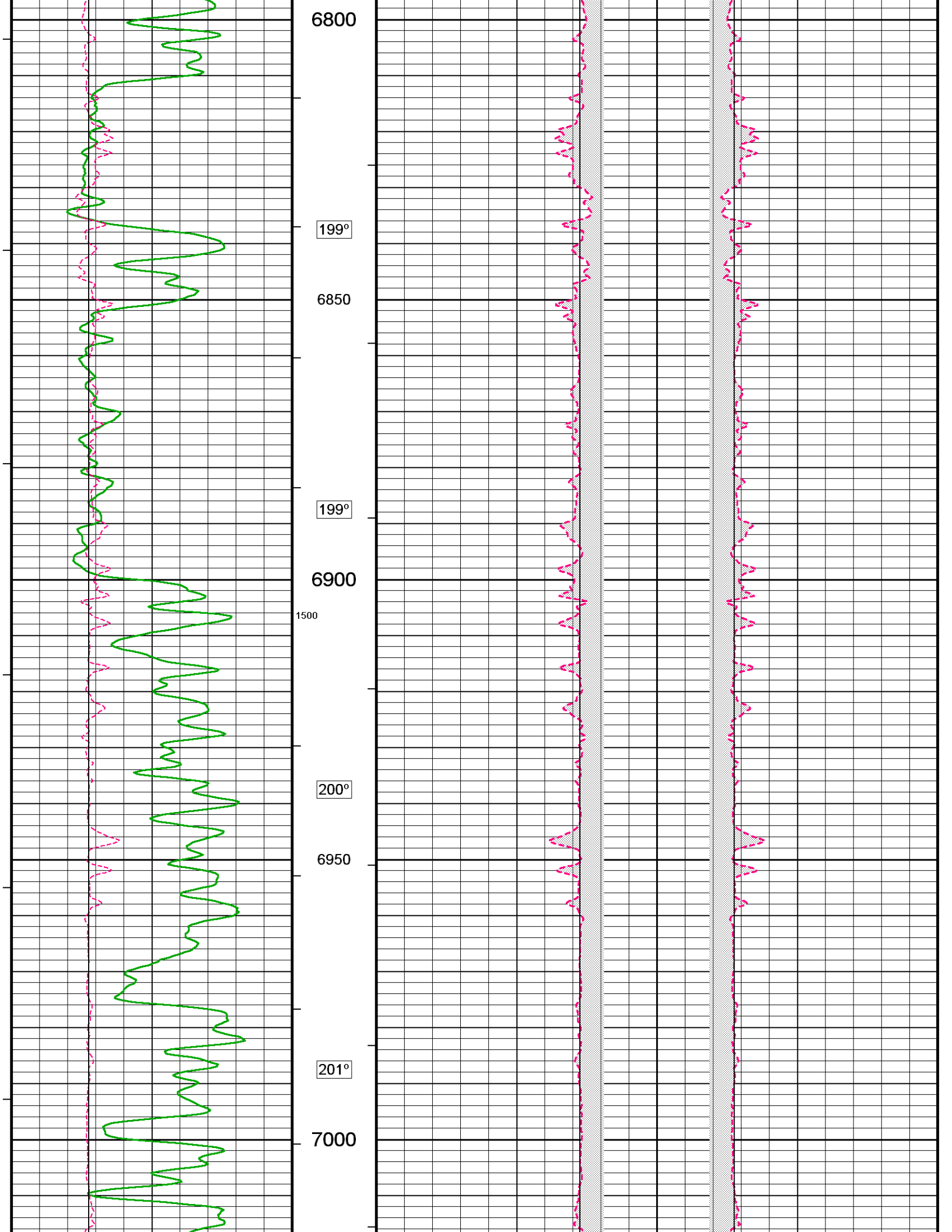


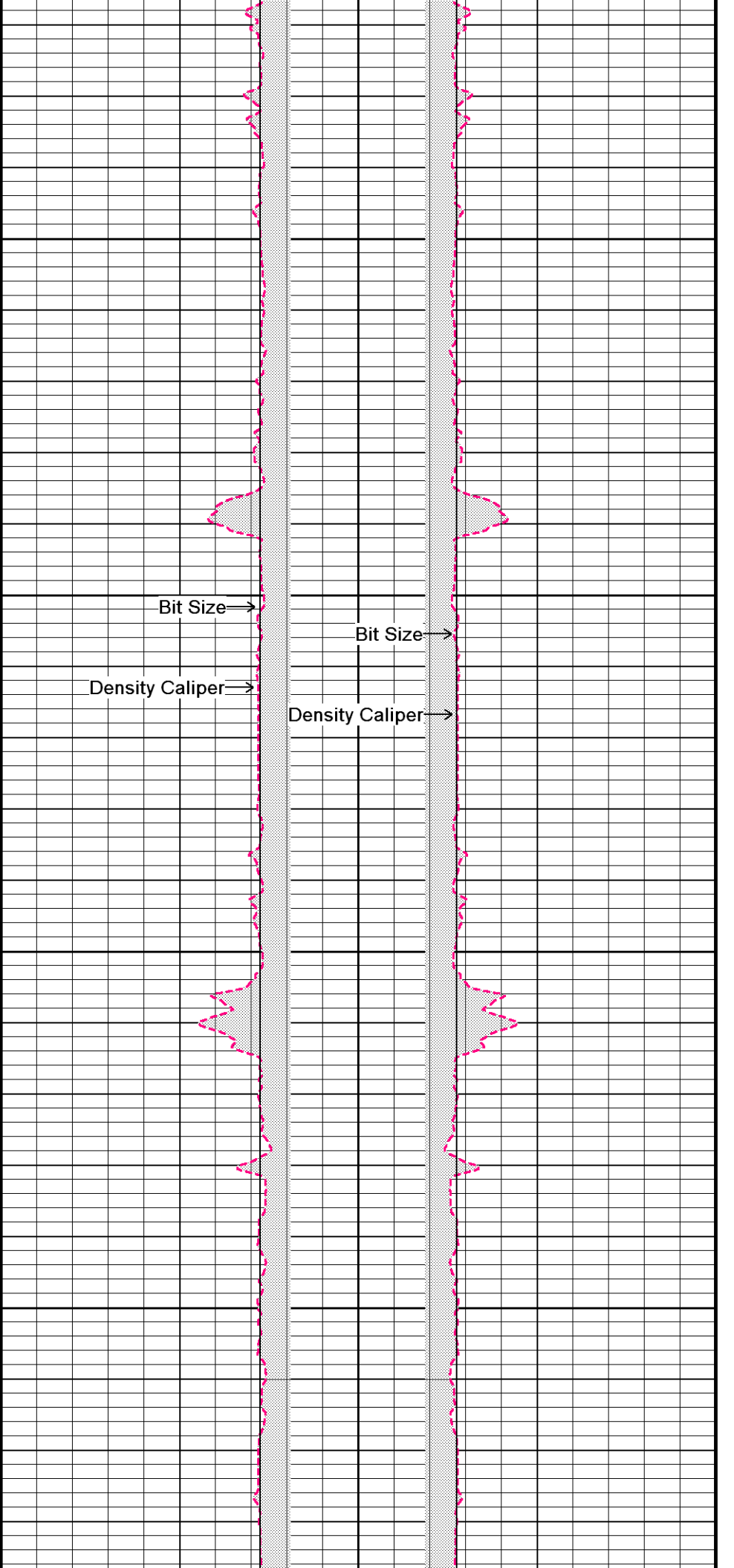
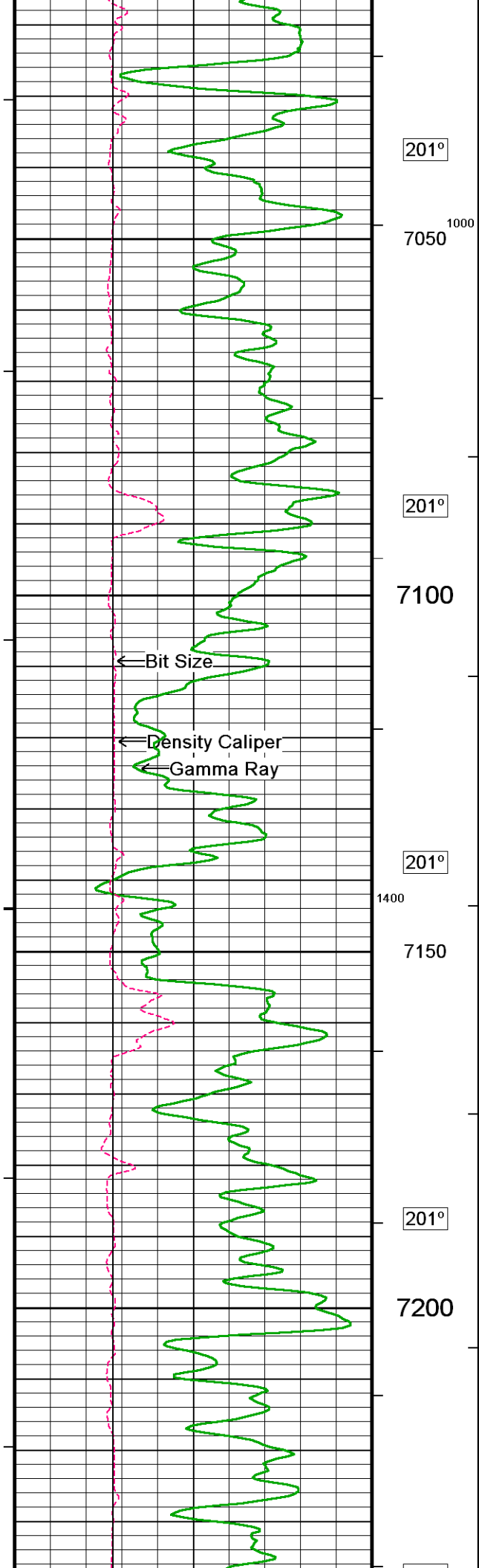


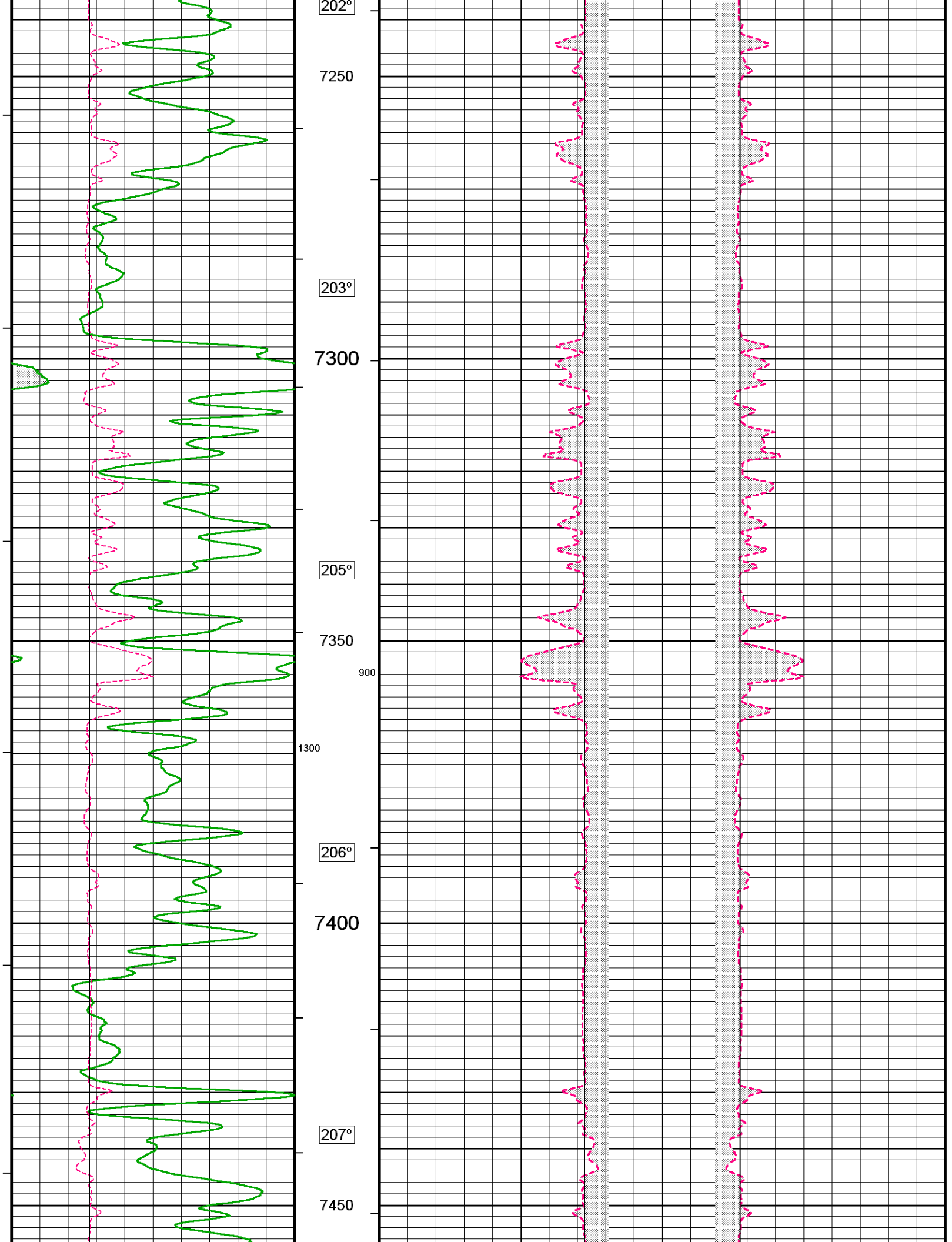


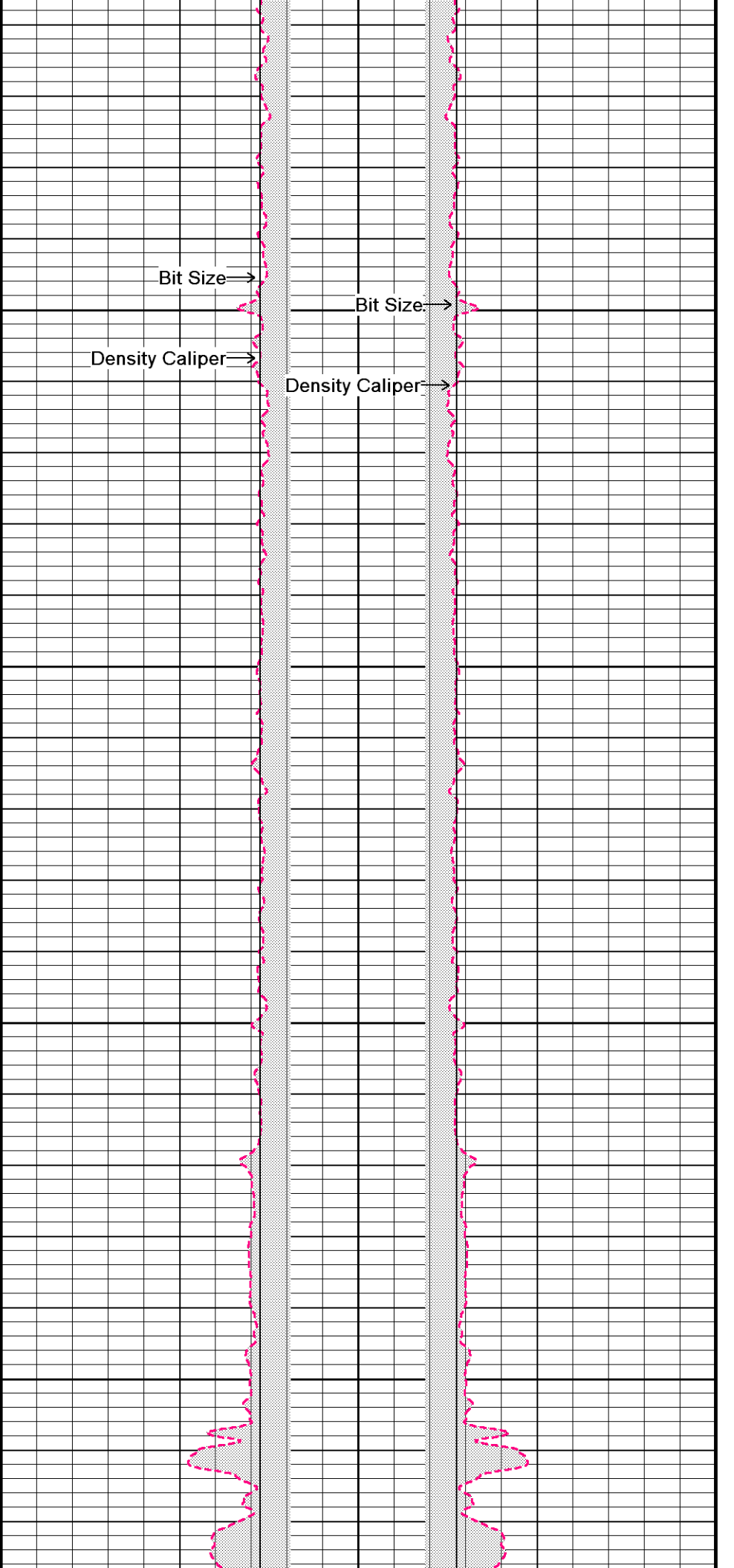
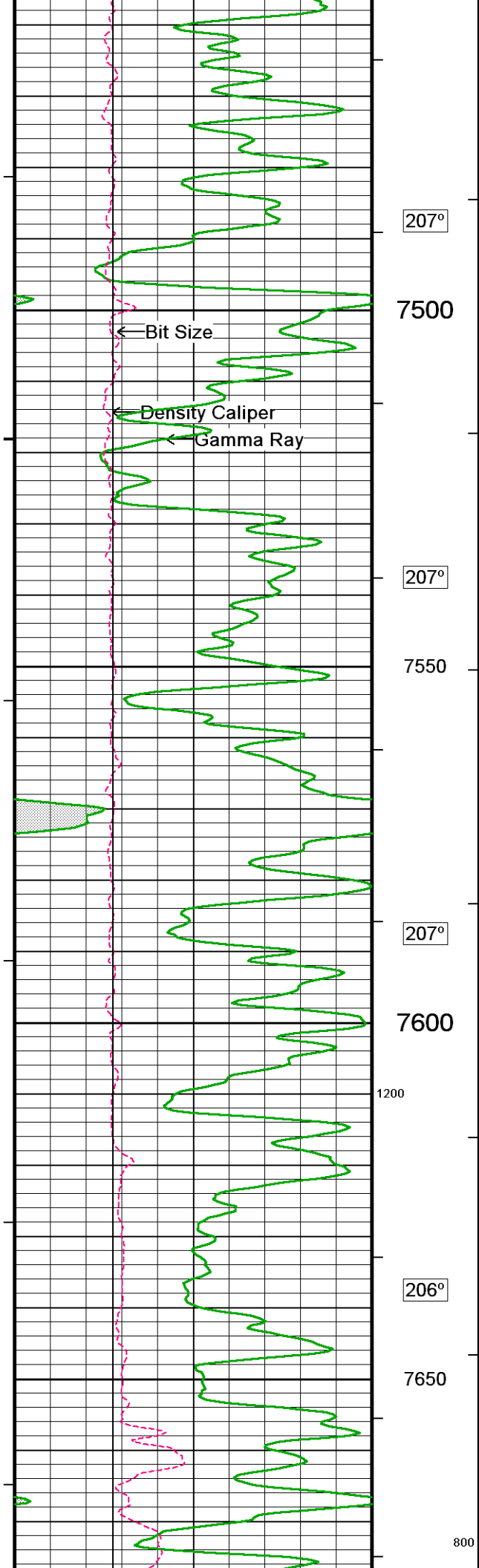




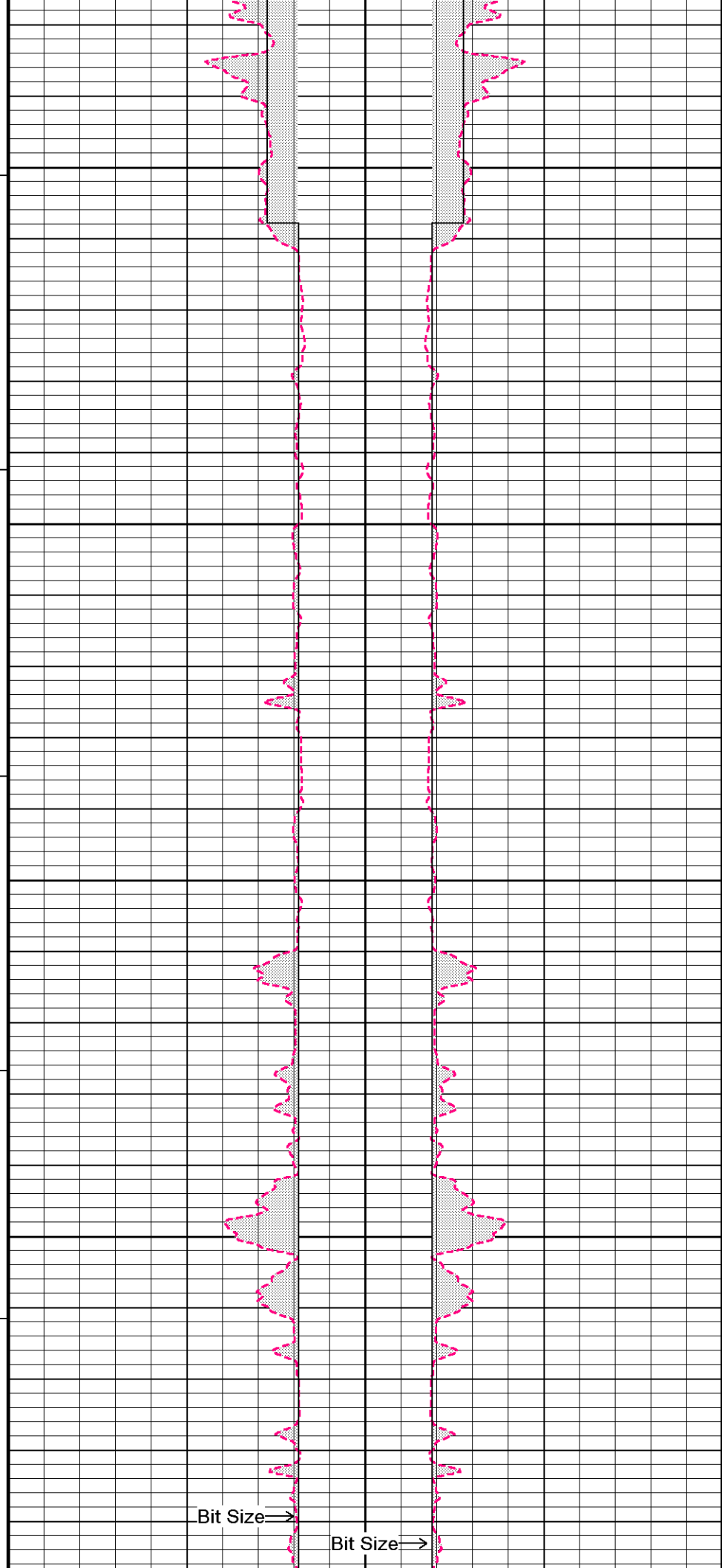
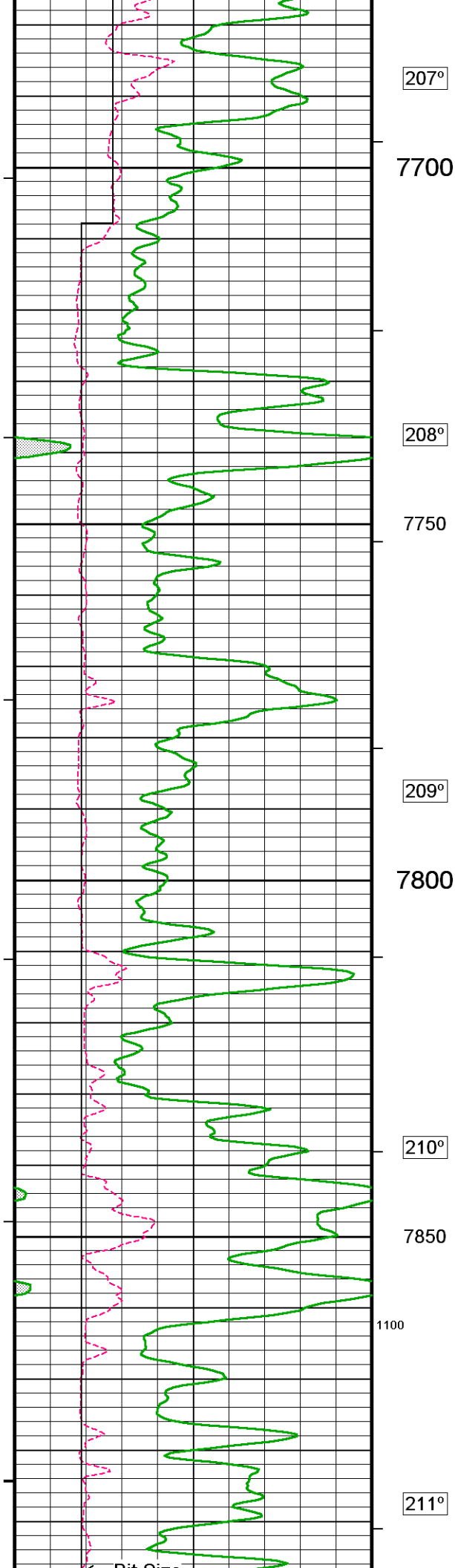


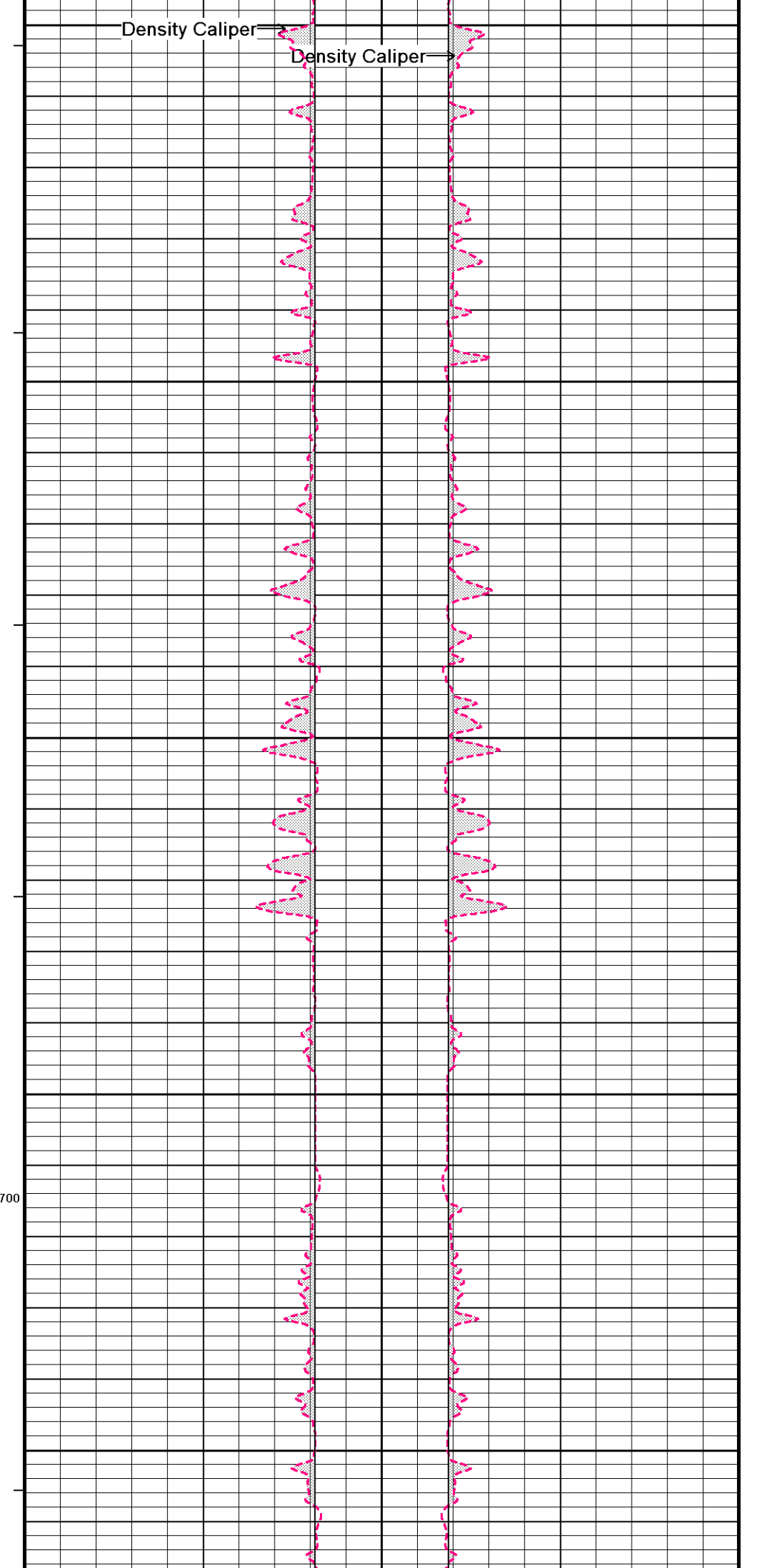
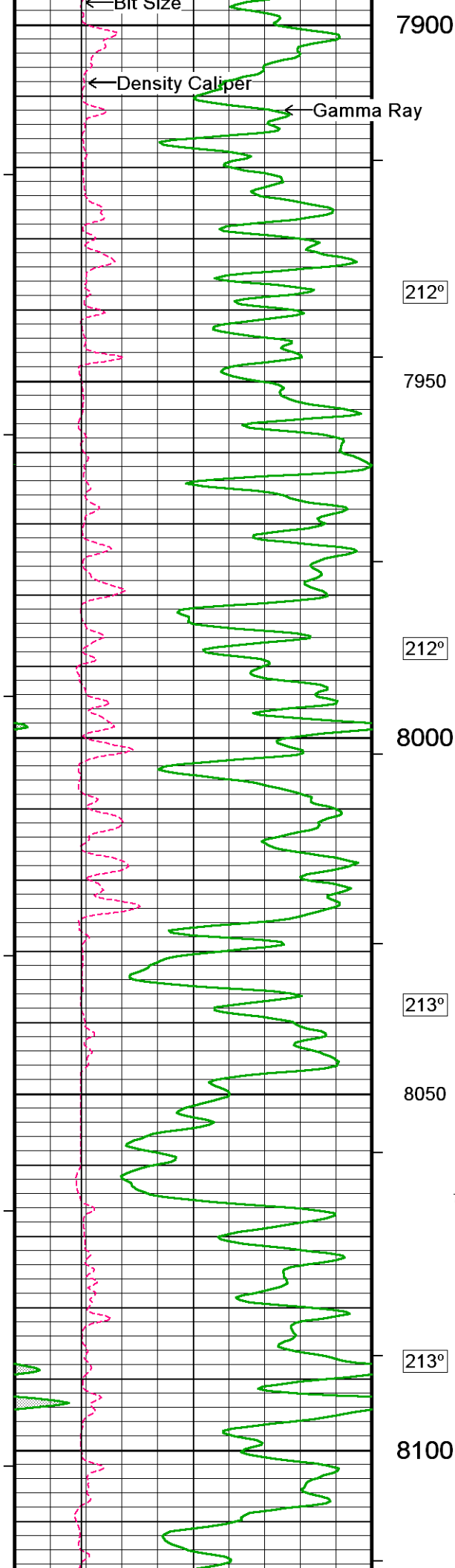


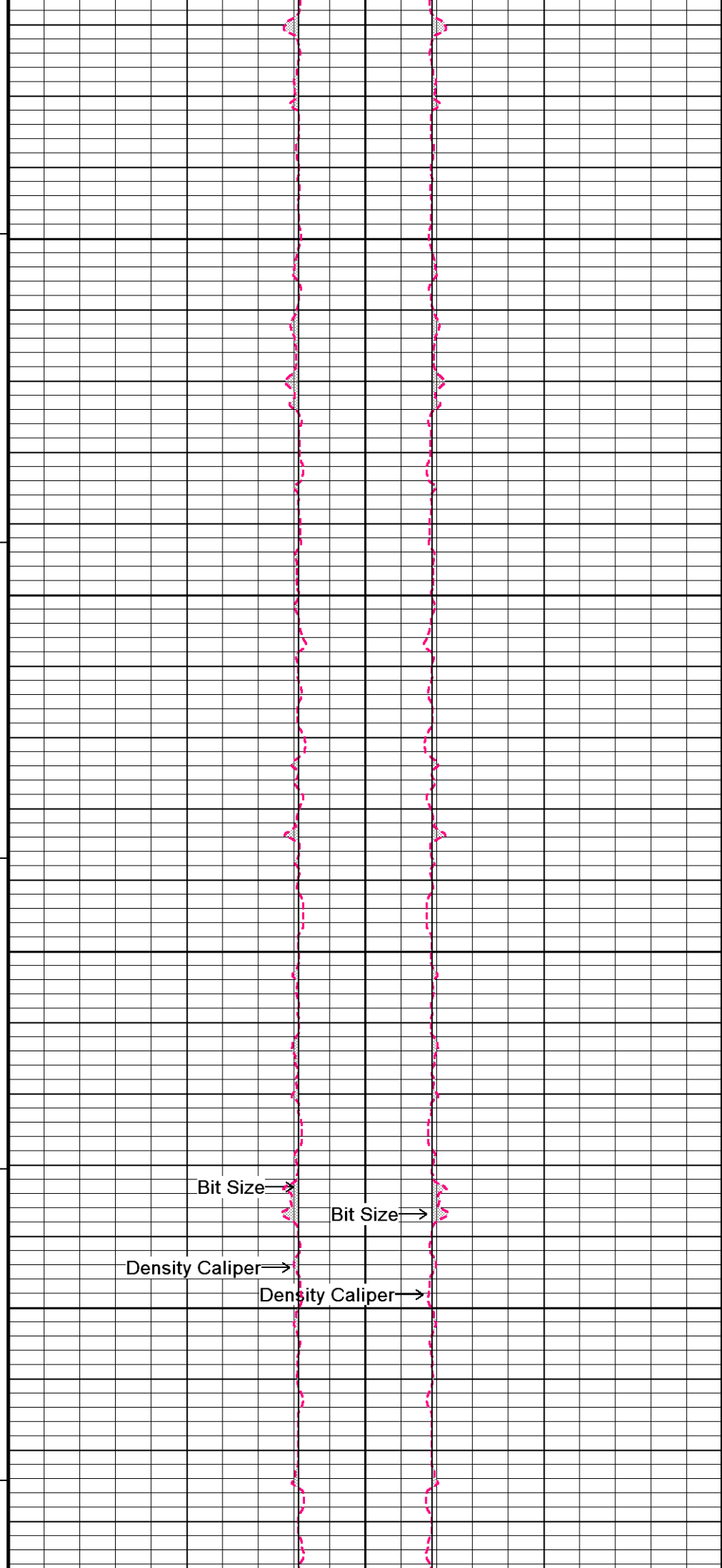
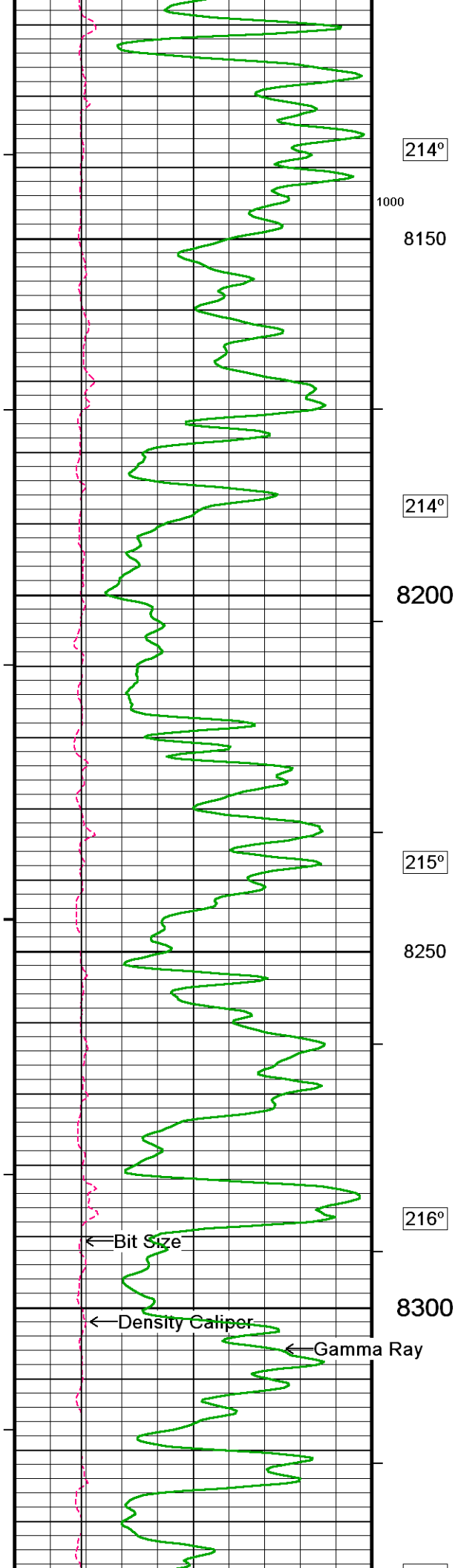


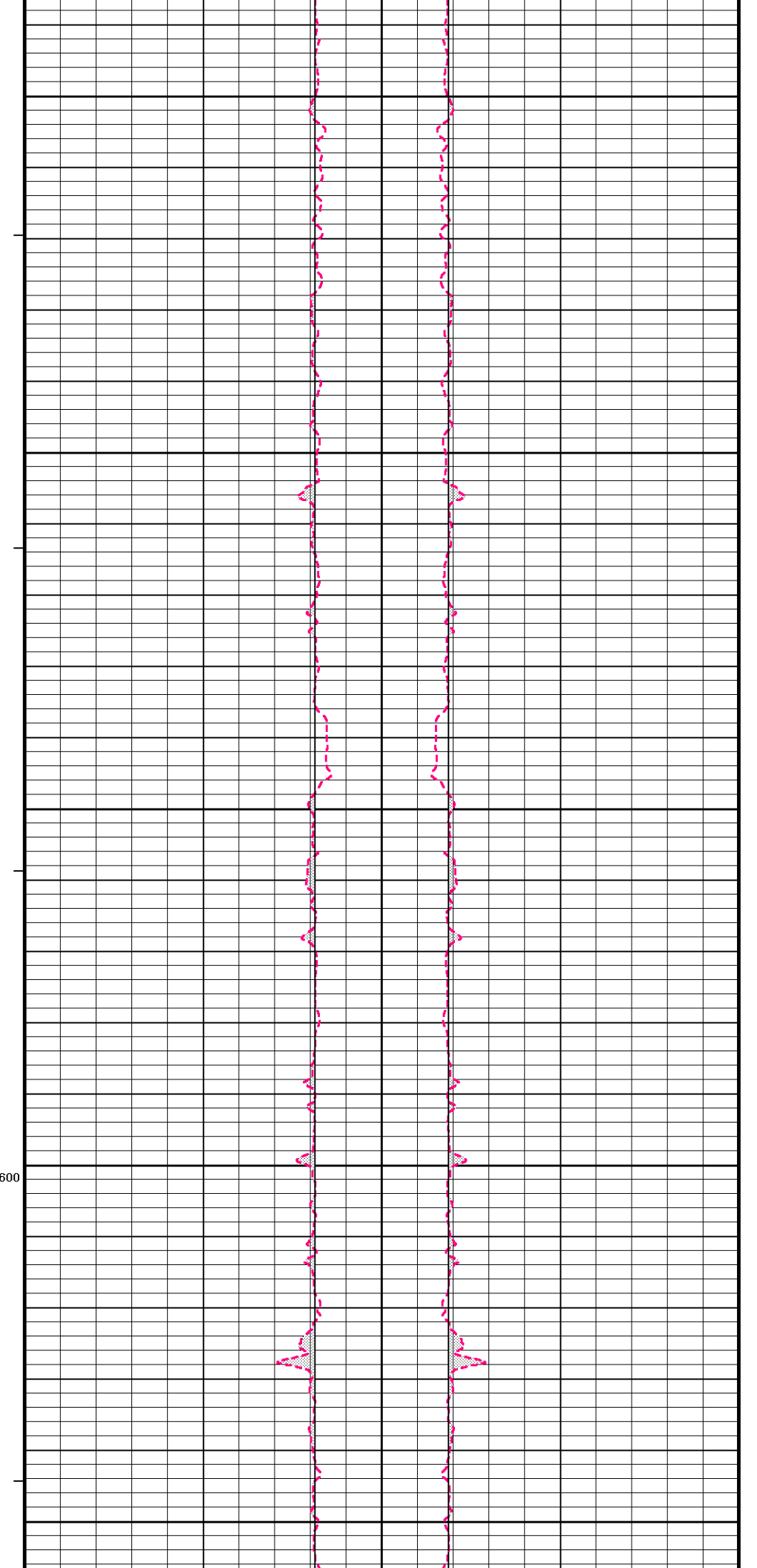
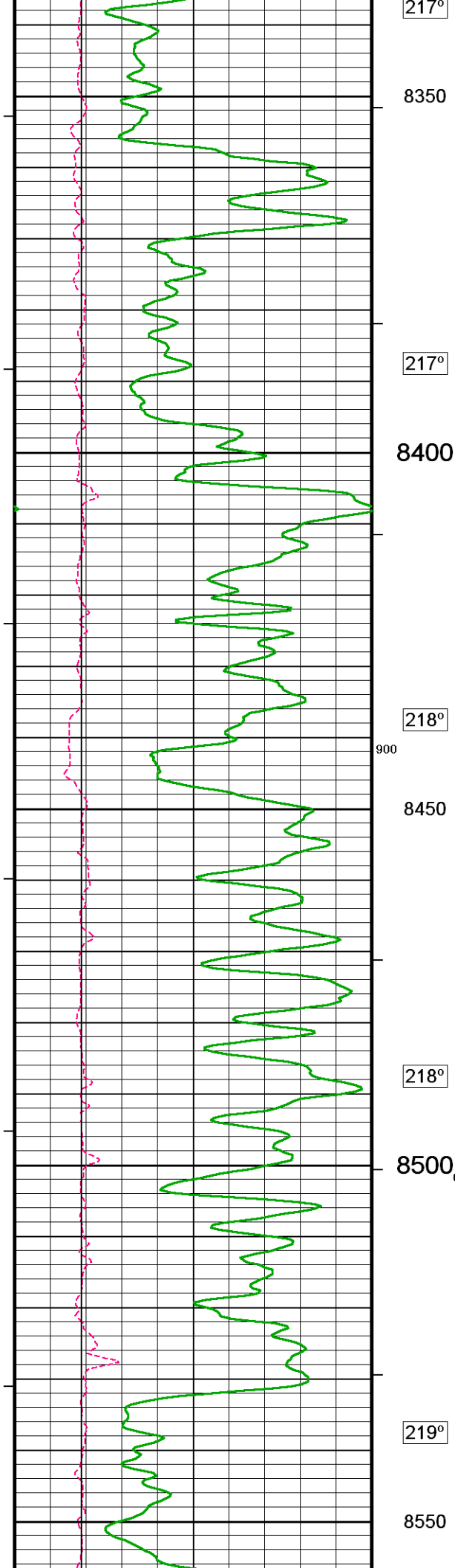


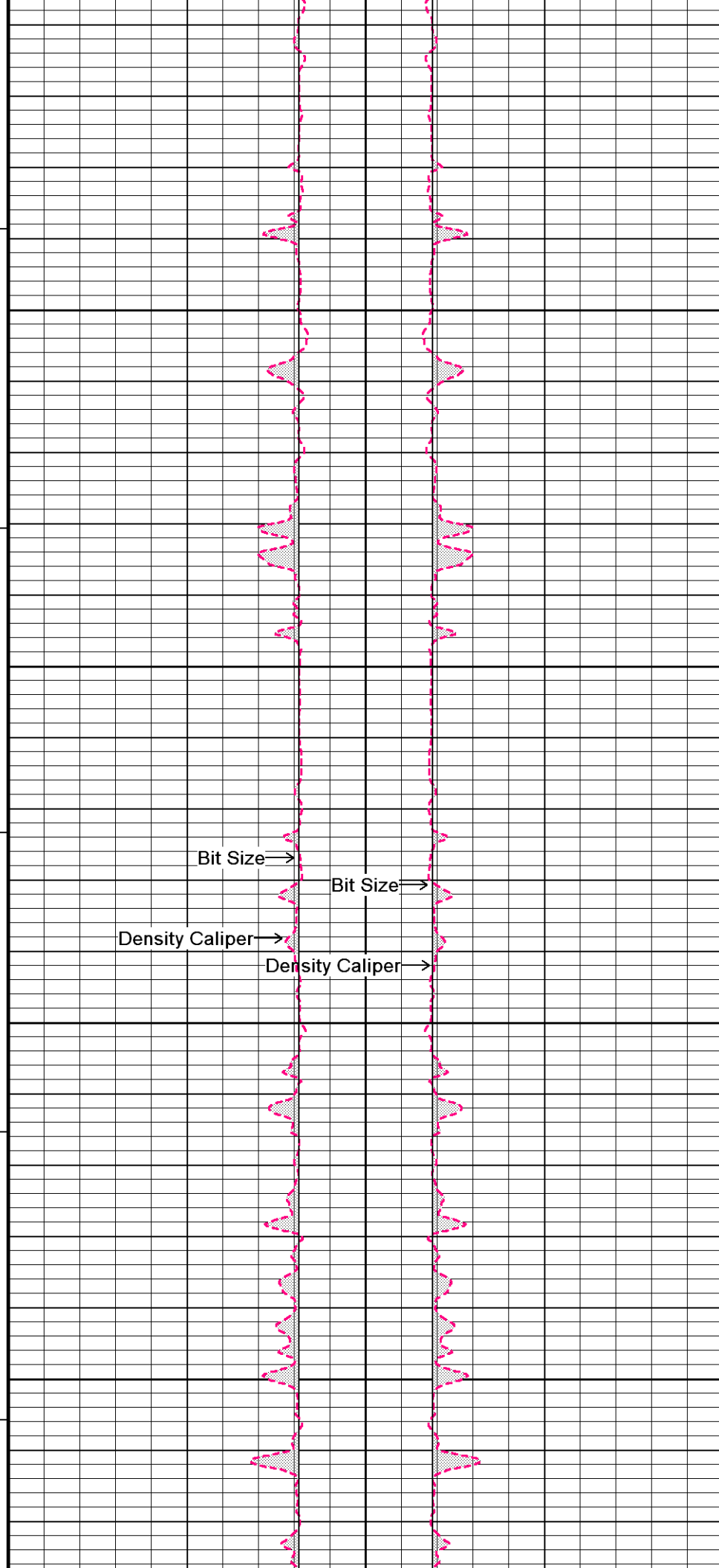
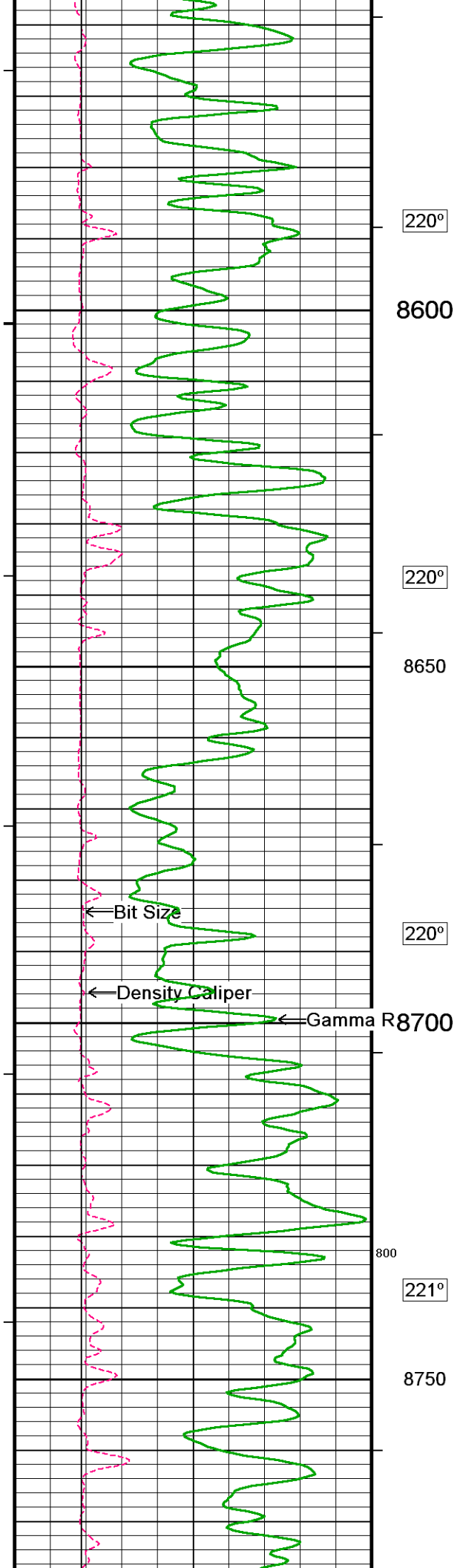




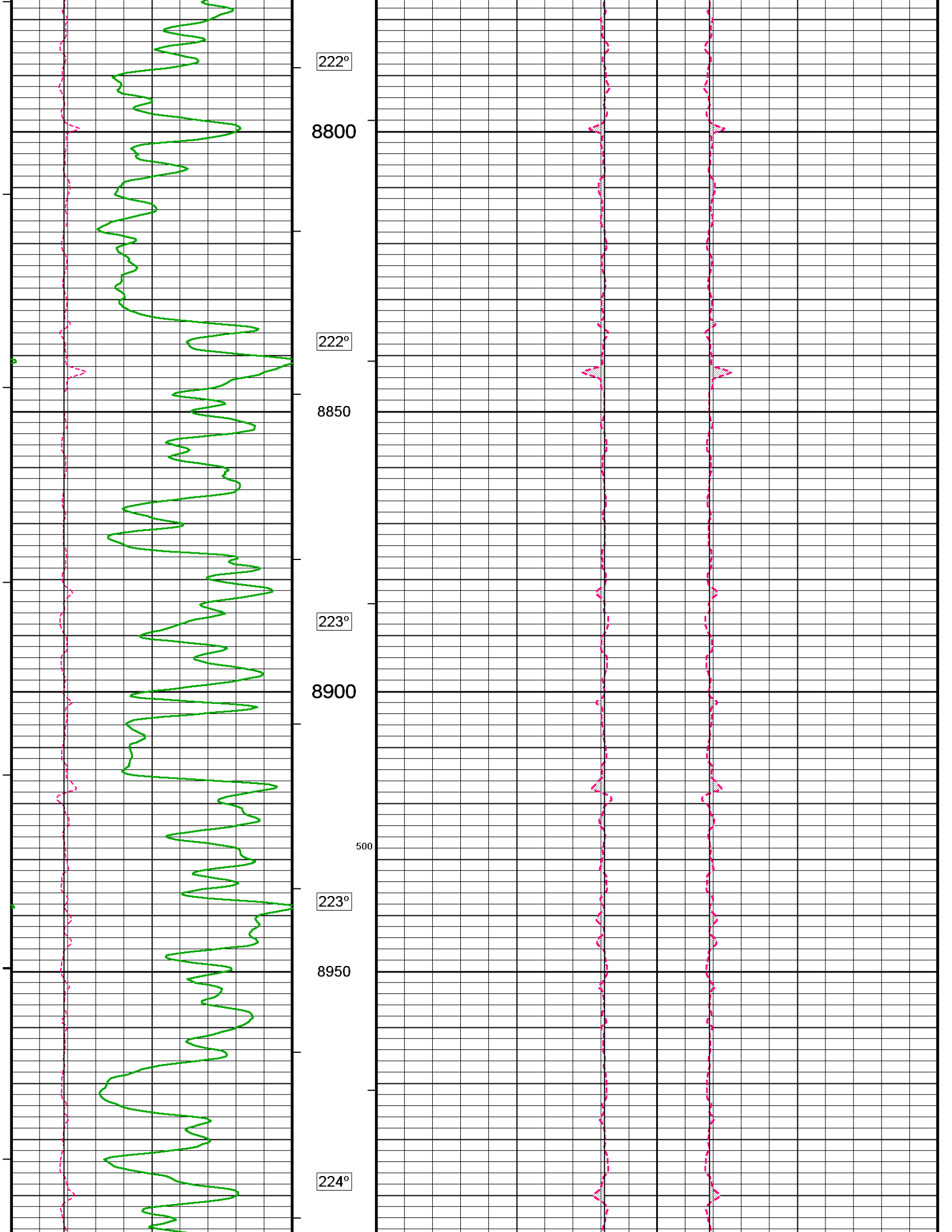


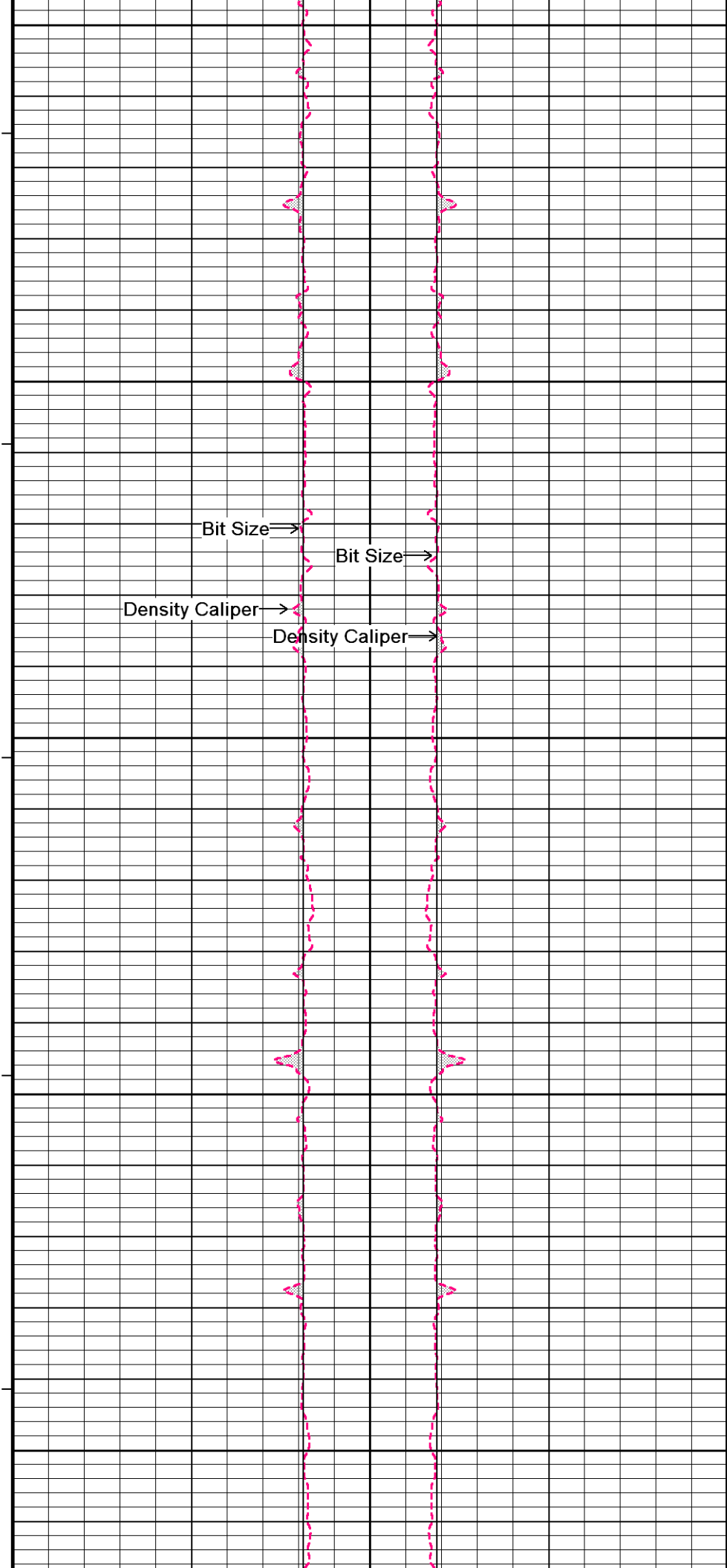
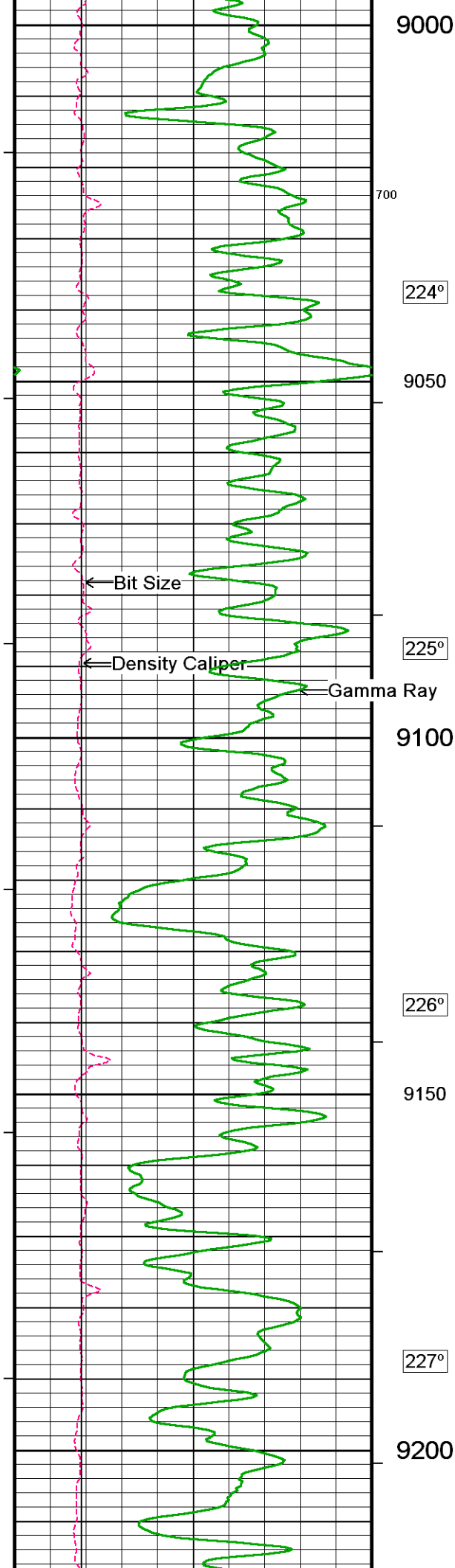


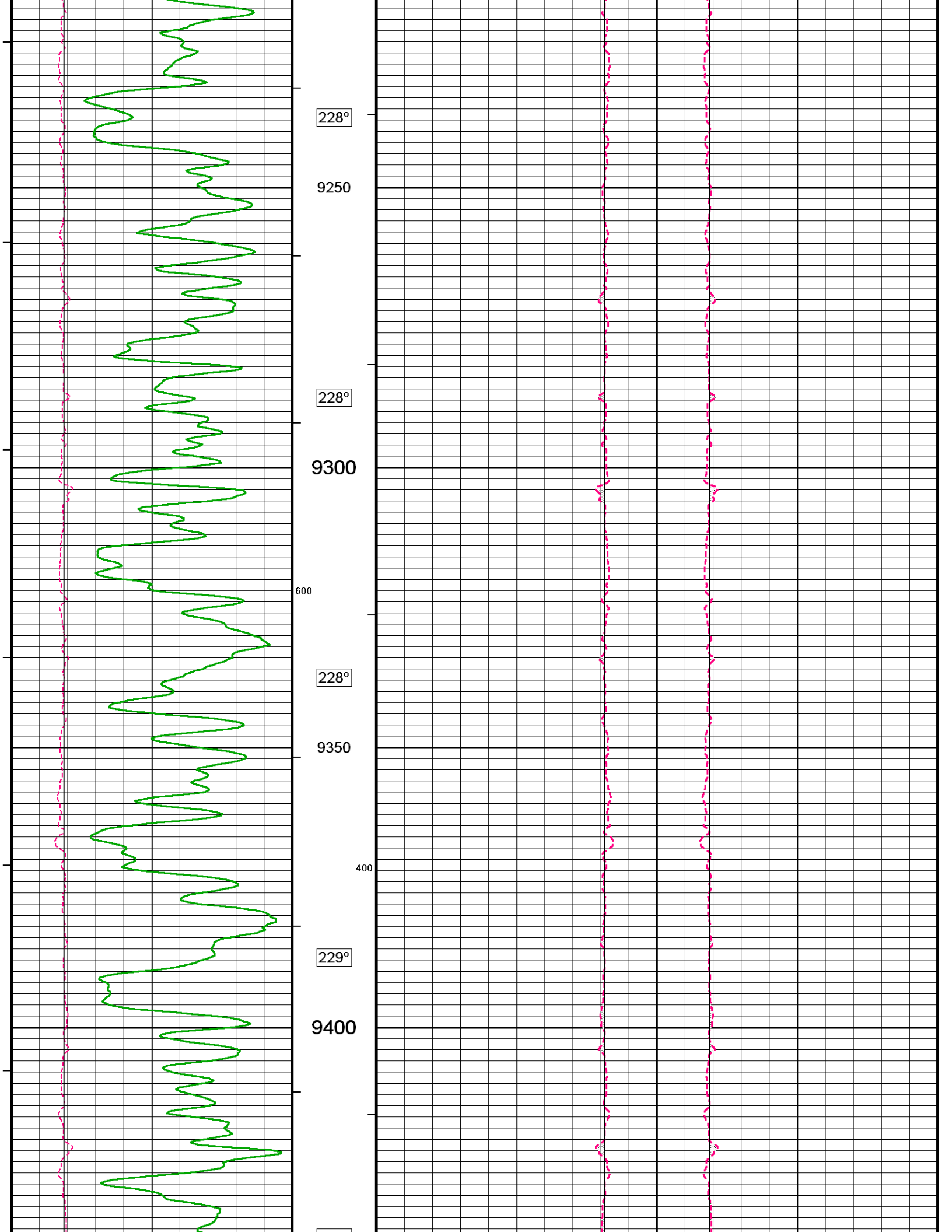


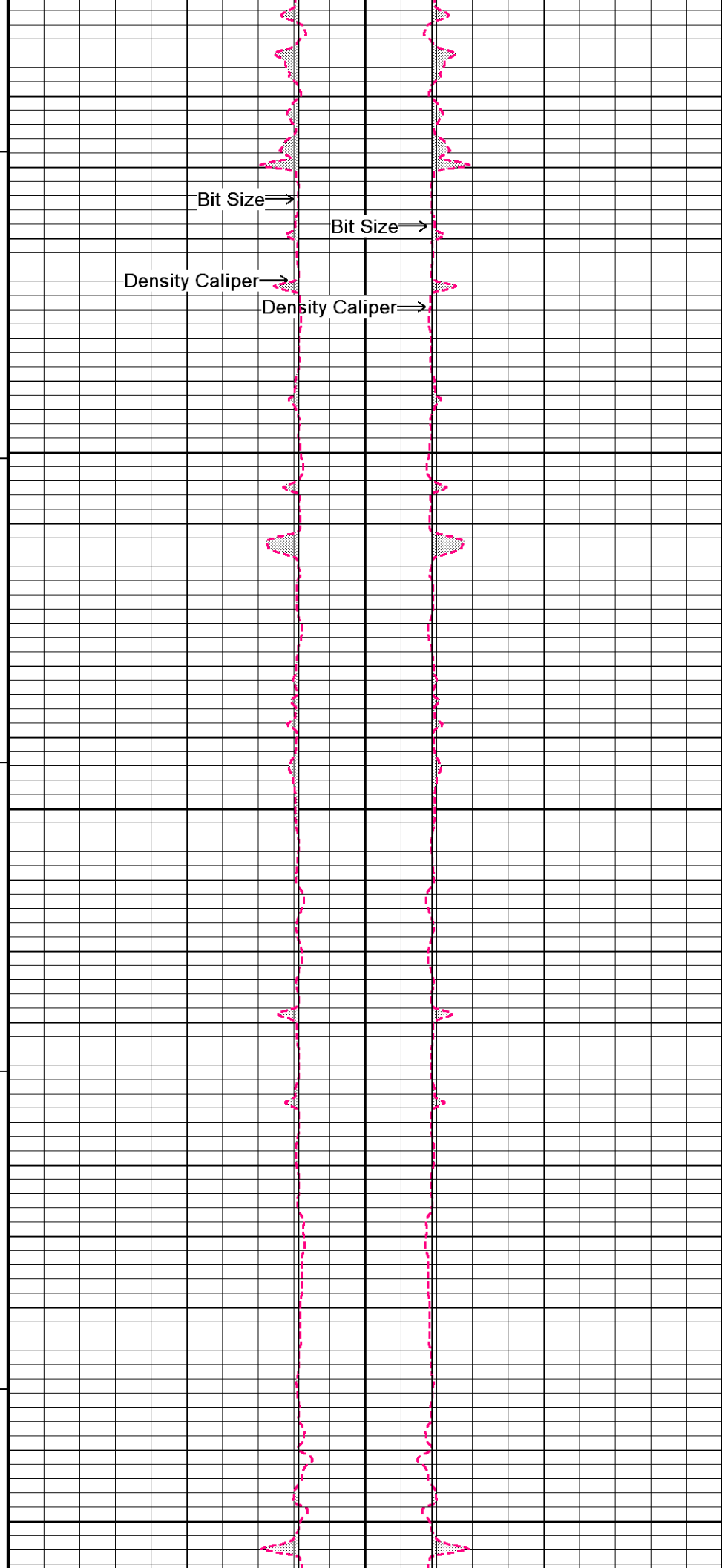
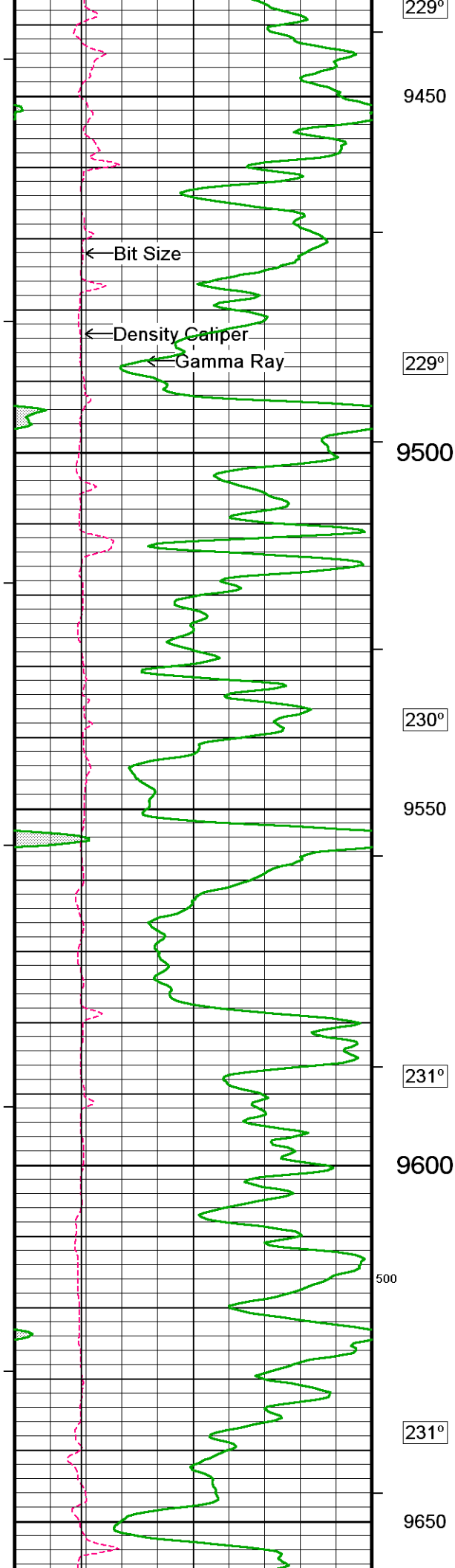


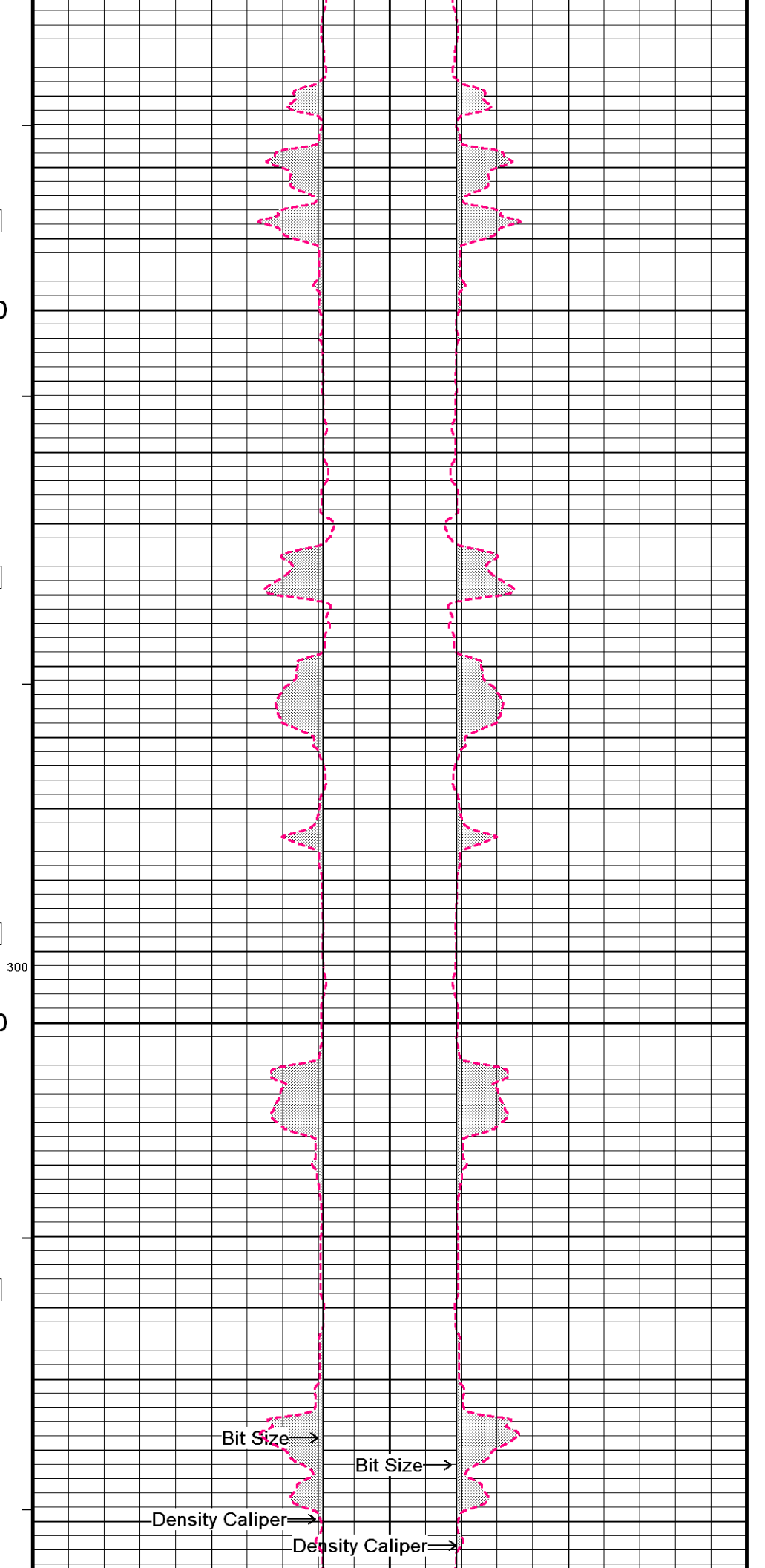
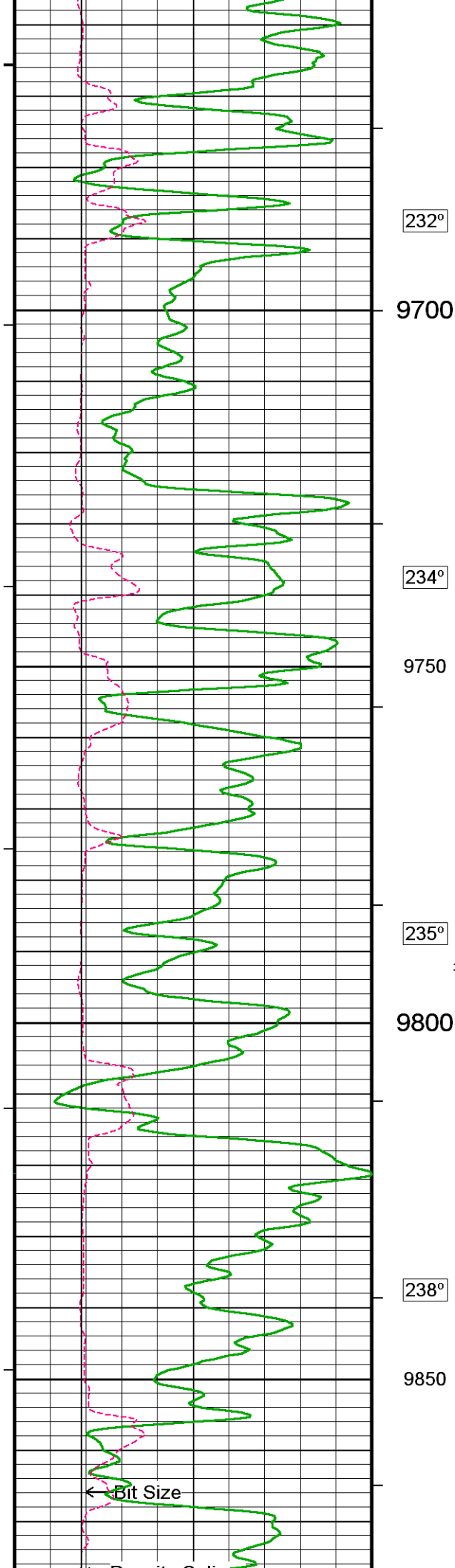




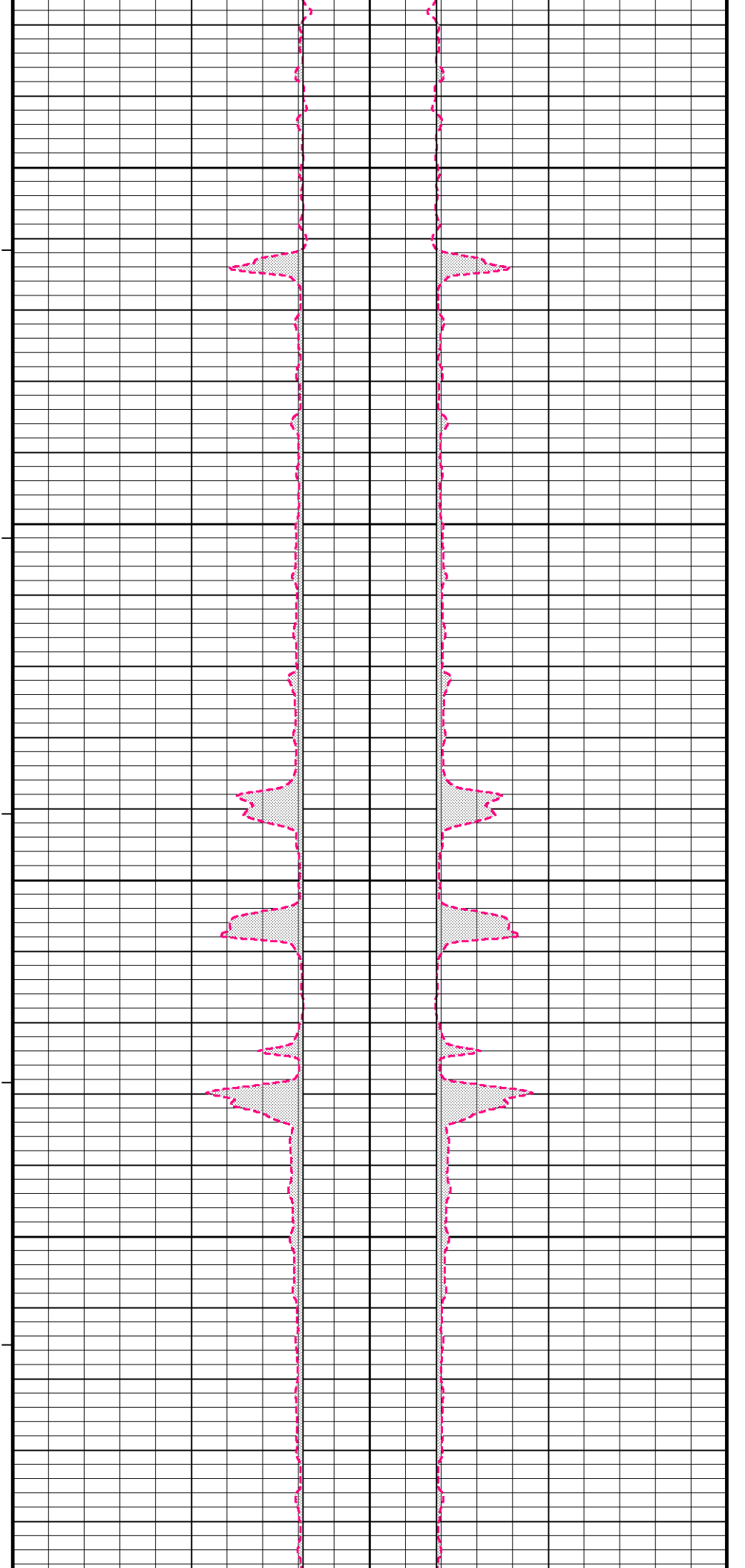
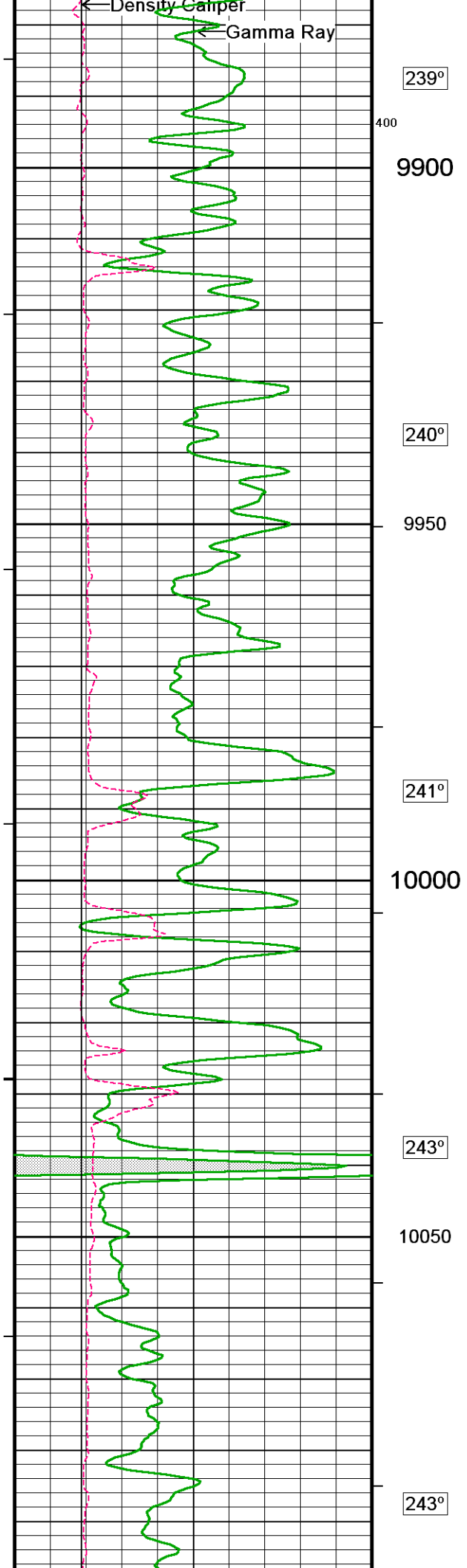


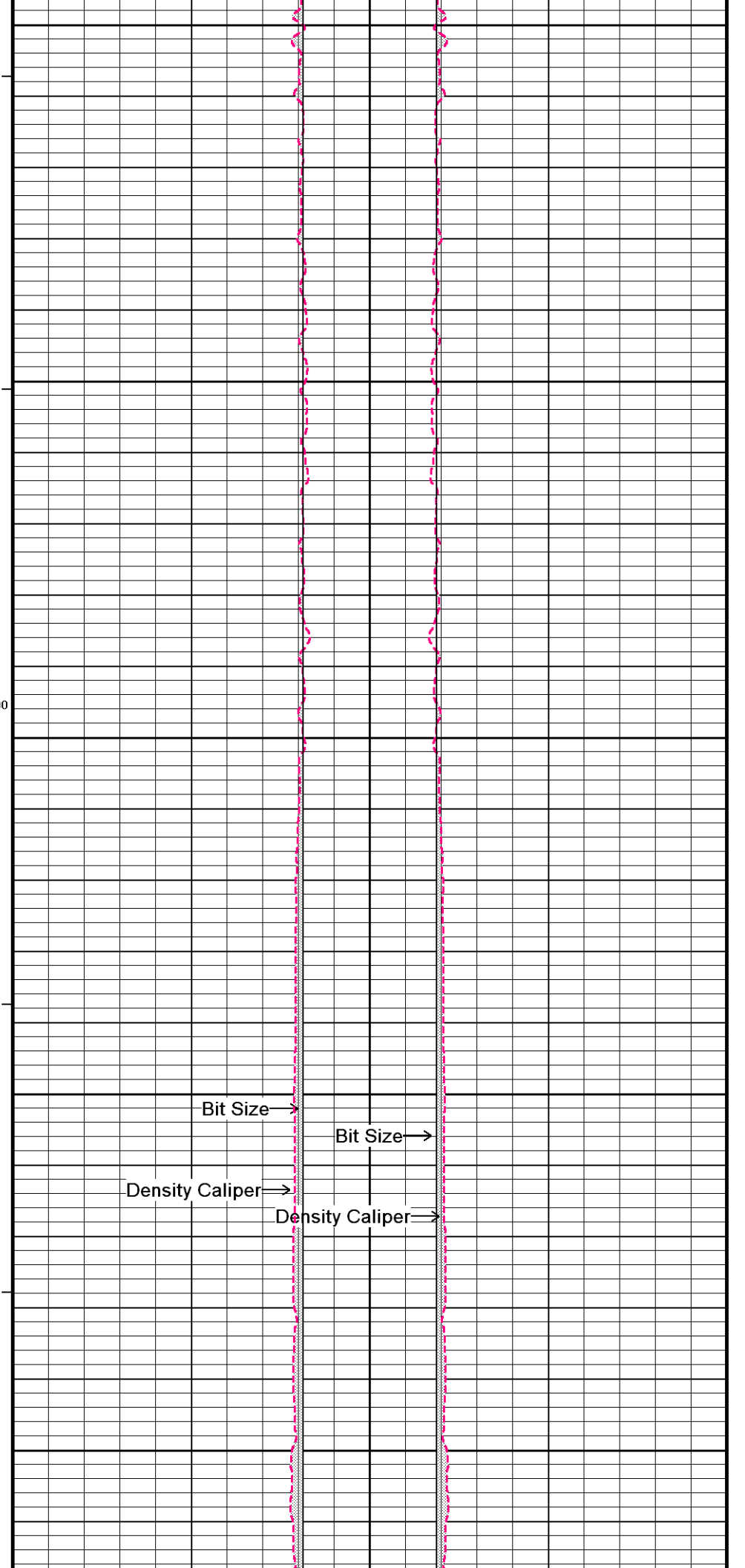
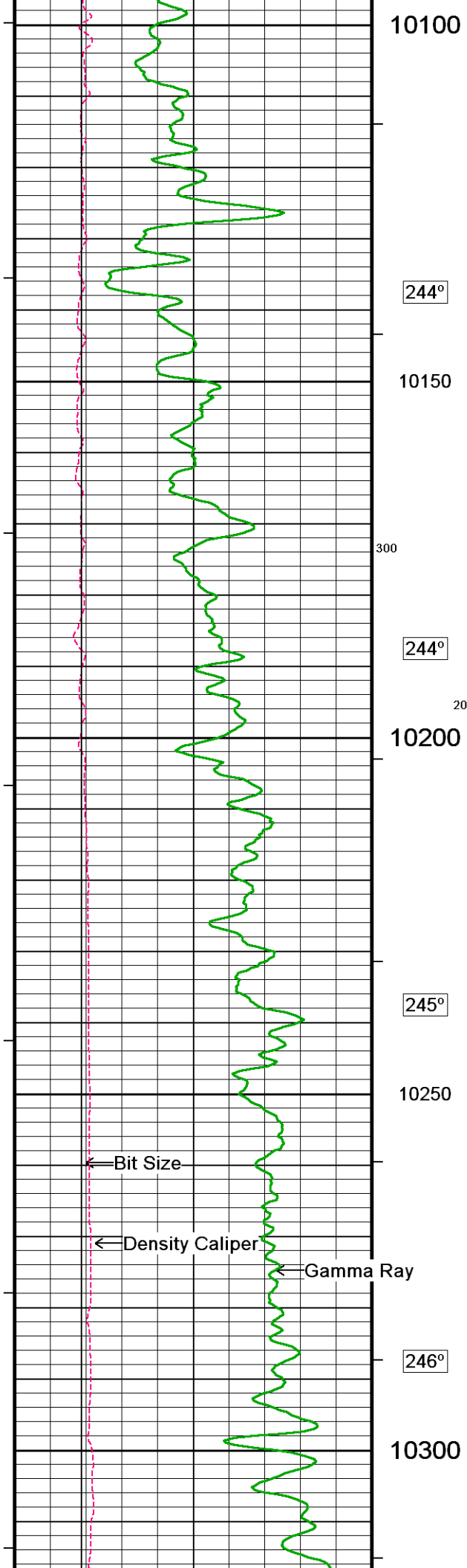


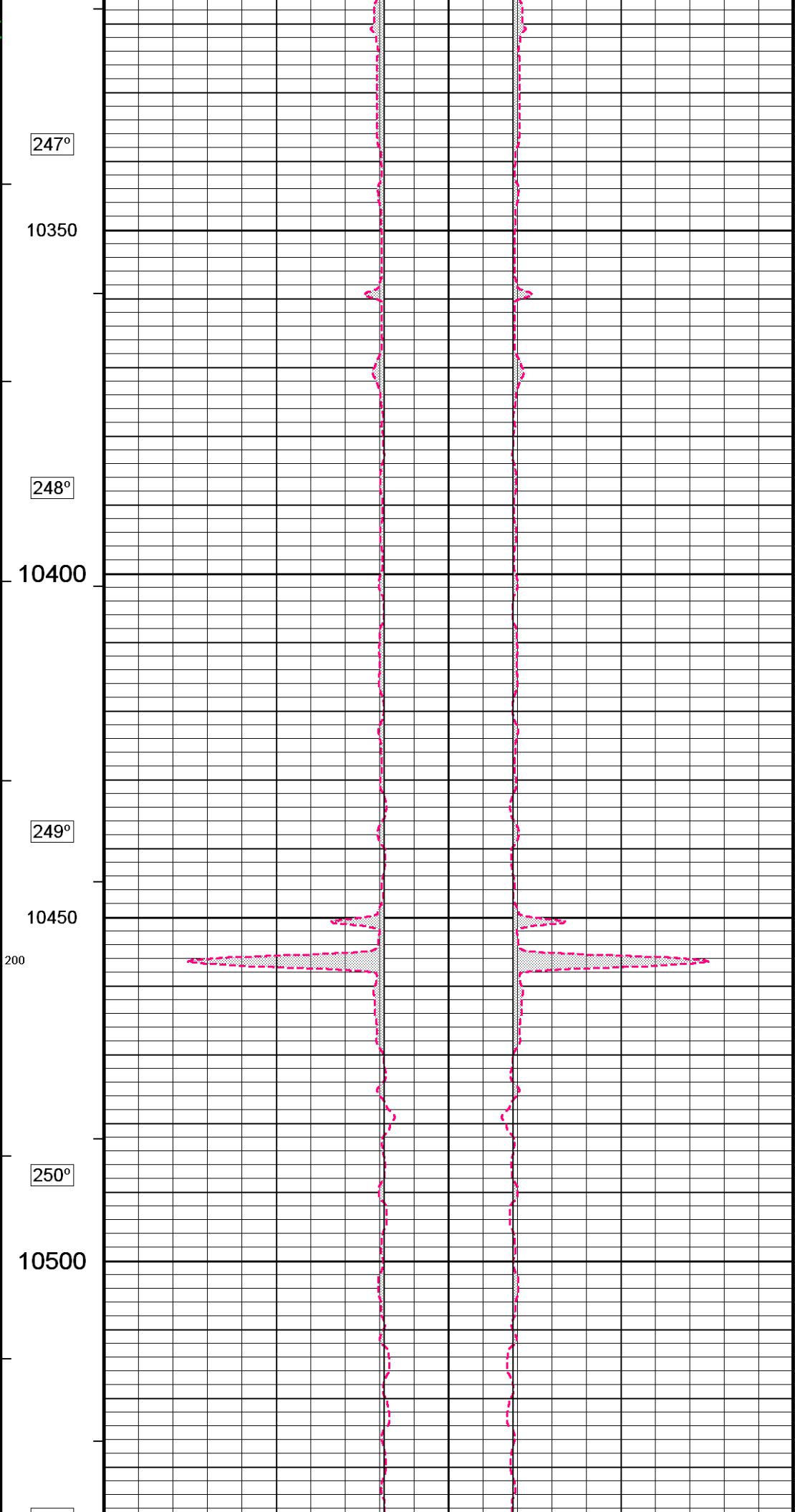
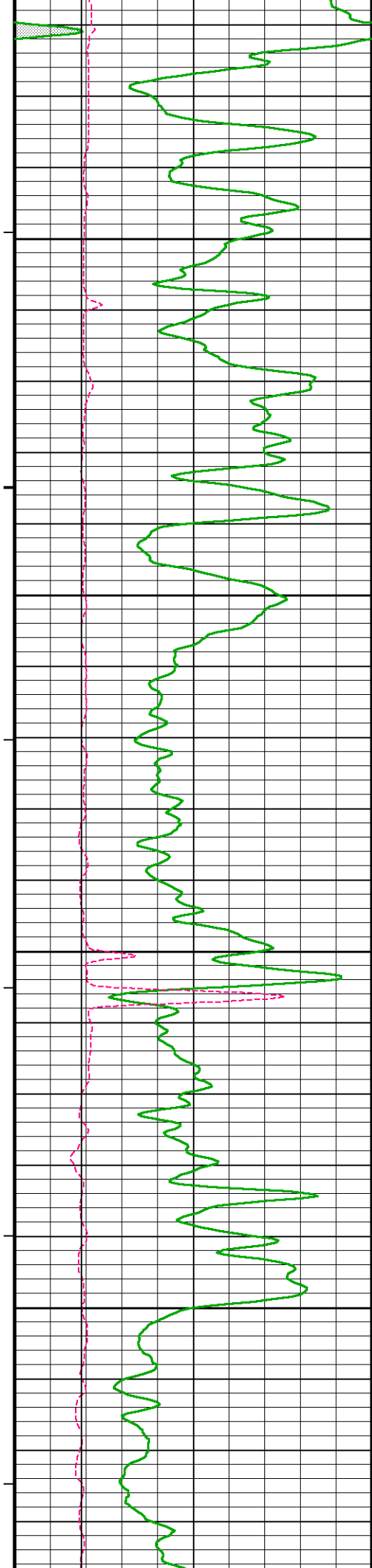


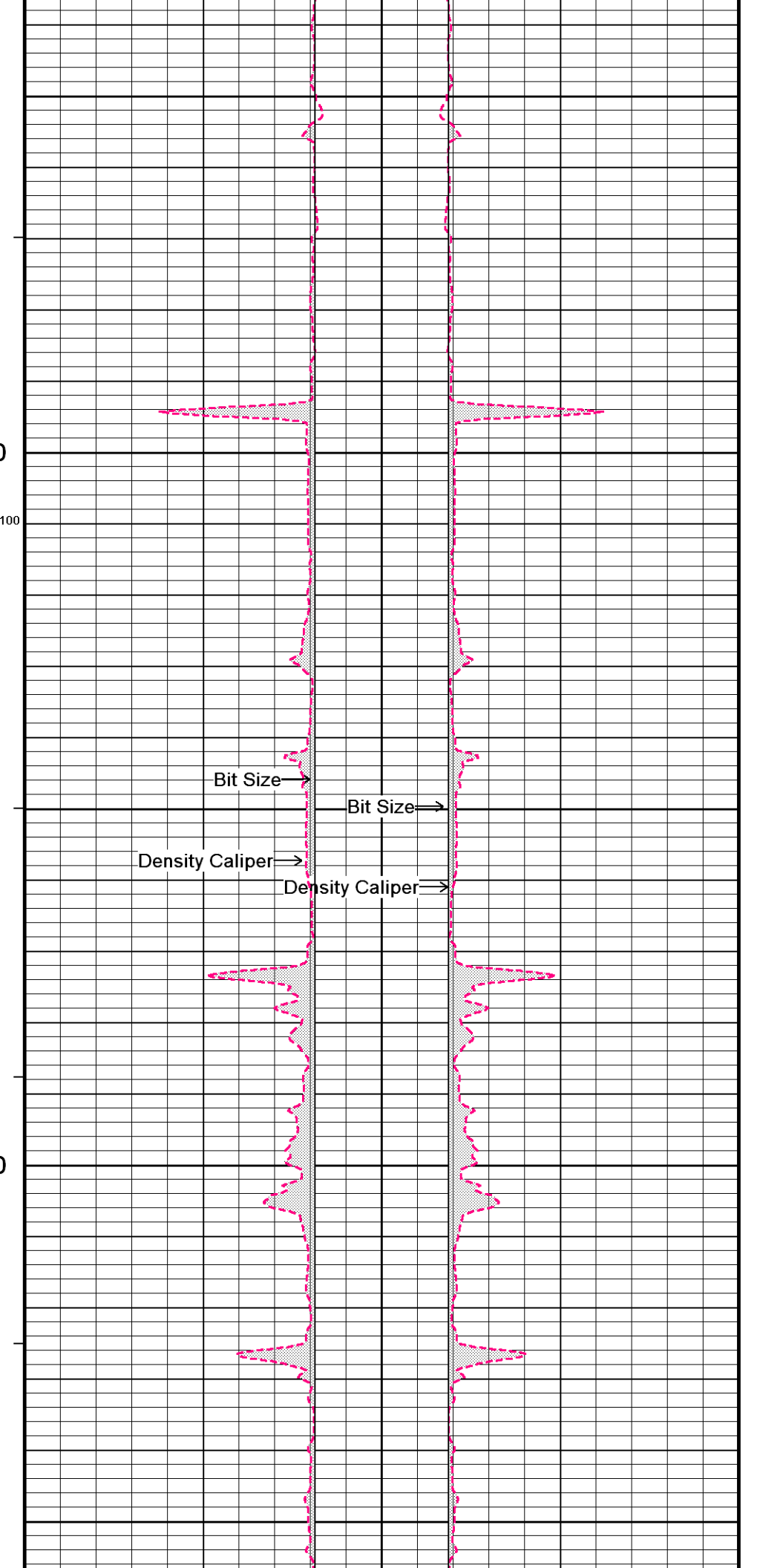
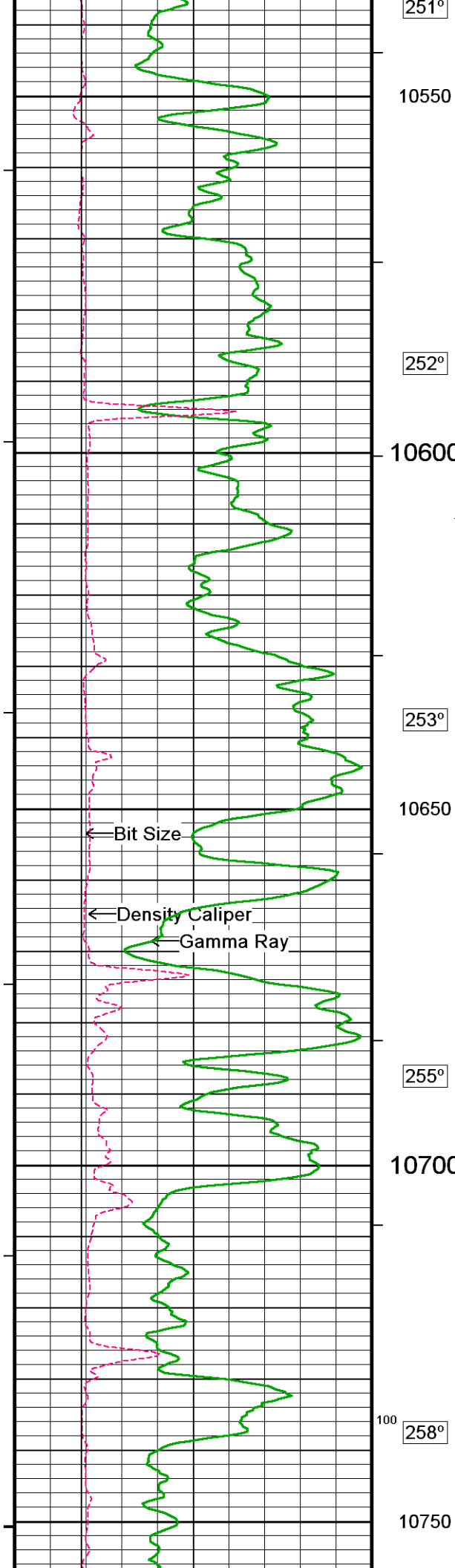


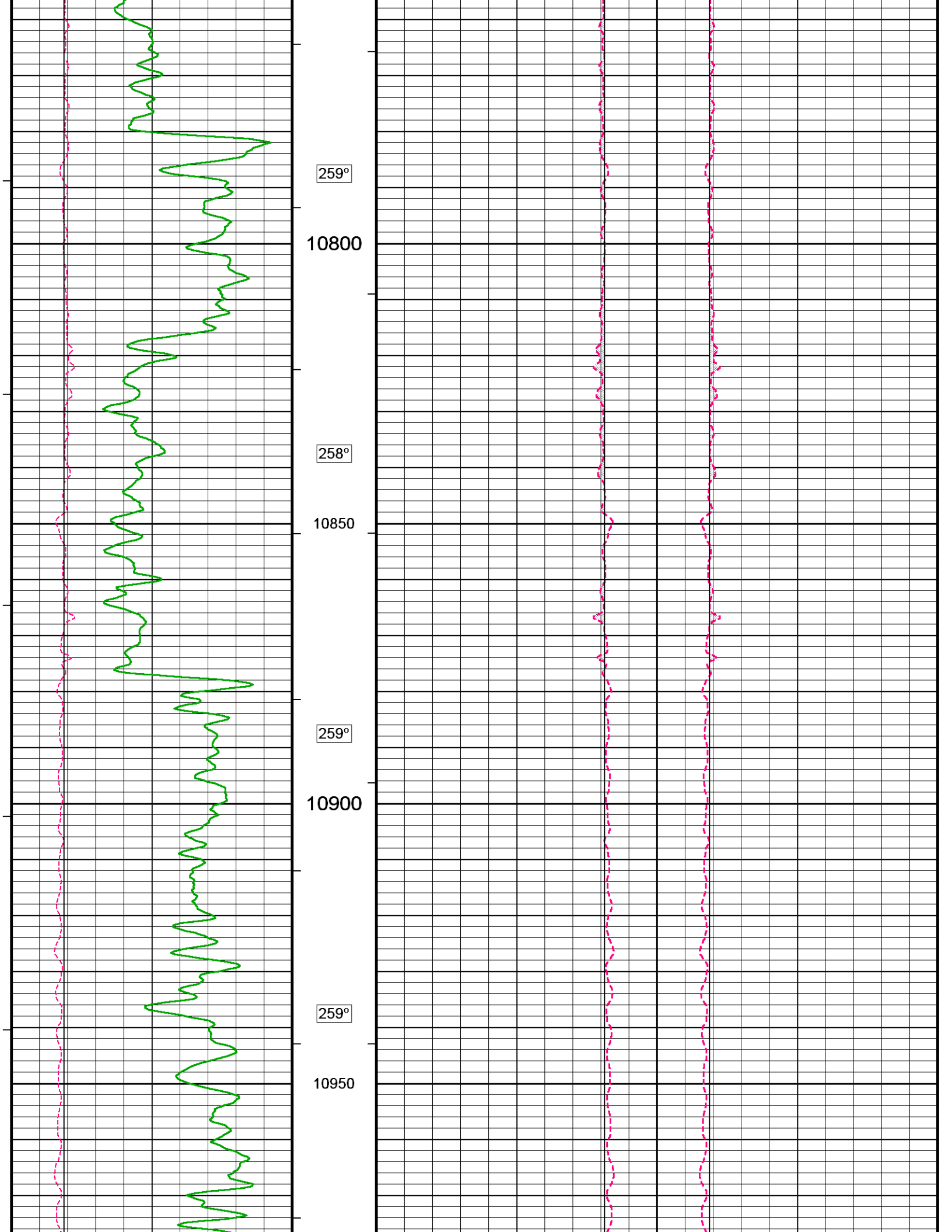




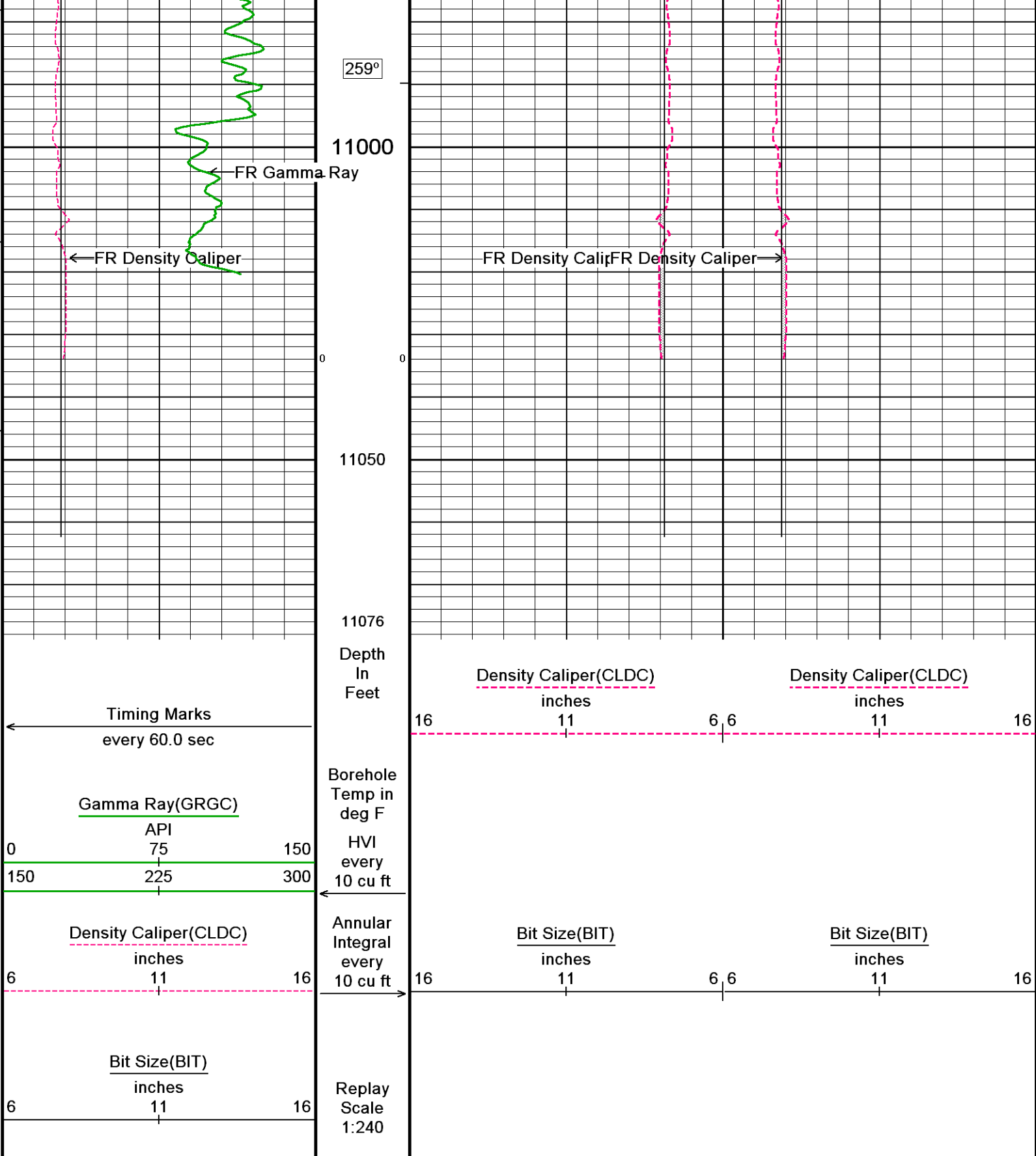












SHA-J.A Compact Swivel Head Adaptor  
SHA-J.A 314 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Comms Gamma  
MCG-D.J 417 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-C.A 253 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

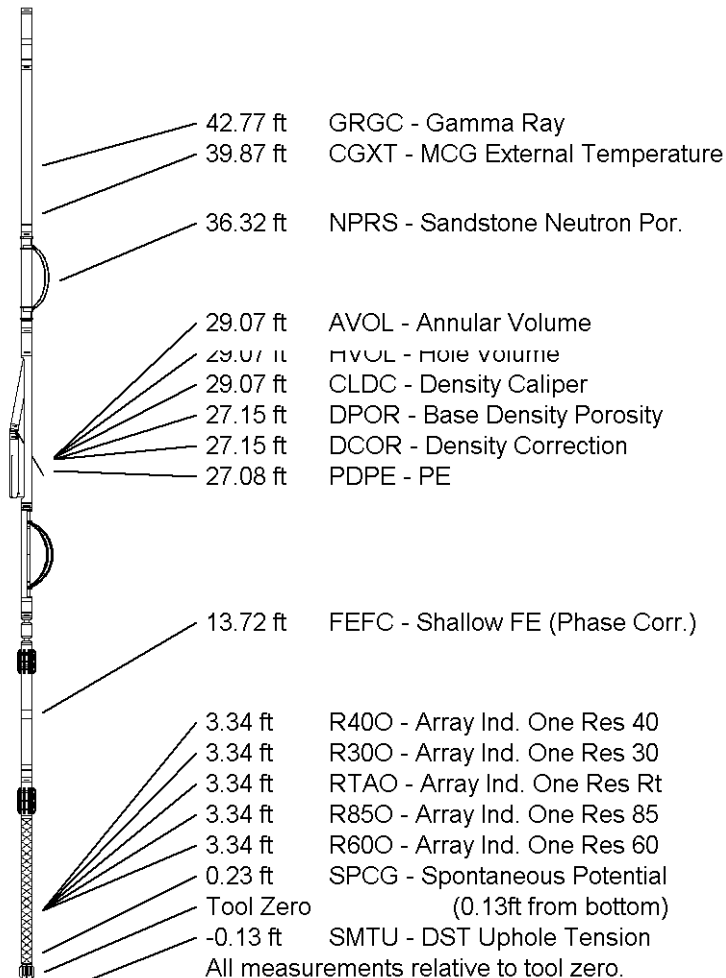
MIS-D.A Compact Inline Bowspring sub  
MIS-D.A 442 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SKJ-D Compact Knuckle Joint  
SKJ-D 34 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric  
MFE-A.A 157 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction  
MAI-B.J 373 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 50.36 ft Weight: 381.4 lb



|                 |                   |
|-----------------|-------------------|
| COMPANY         | ENCANA            |
| WELL            | NPEF 16E-27 P27   |
| FIELD           | NORTH PARACHUTE   |
| PROVINCE/COUNTY | GARFIELD          |
| COUNTRY/STATE   | U.S.A. / COLORADO |

|                         |         |      |               |          |      |
|-------------------------|---------|------|---------------|----------|------|
| Elevation Kelly Bushing | 6671.50 | feet | First Reading | 11018.00 | feet |
| Elevation Drill Floor   | 6671.50 | feet | Depth Driller | 11060.00 | feet |
| Elevation Ground Level  | 6649.00 | feet | Depth Logger  | 11047.00 | feet |



**Weatherford®**

HOLE VOLUME  
CALIPER  
LOG

