

**Weatherford®****COMBINED LOG**  
**MDL-MGS-MDN-MPD**  
**SCALE 5":100**

COMPANY

SAVIA PERU S.A

WELL

LO6-30D

FIELD

LOBITOS OFFSHORE

PROVINCE/COUNTY

PIURA

COUNTRY/STATE

PERU

LOCATION

N: 9°508,658.51 m  
E: 459,043.47 mLatitude  
Longitude

Other Services

Permanent Datum SEA LVL, Elevation 335 feet

Log Measured From DF

Drilling Measured From DF

Elevations:

feet

KB

DF

GL

385.00  
385.00  
335.00

Date

29-MAR-2014

Run Number

1

Service Order

897

Depth Driller

8198.00 feet

Depth Logger

8182.90 feet

First Reading

8154.94 feet

Last Reading

5673.30 feet

Casing Driller

5673.00 feet

Casing Logger

5673.30 feet

Bit Size

8.500

inches

Hole Fluid Type

WBM

Density / Viscosity

11.20 lb/USg

48.00 Sec/qt

PH / Fluid Loss

9.30

5.80 ml/30Min

Sample Source

ACTIVE PIT

Rm @ Measured Temp

0.15 @ 75.0 ohm-m

Rmf @ Measured Temp

0.11 @ 75.0 ohm-m

Rmc @ Measured Temp

0.28 @ 75.0 ohm-m

Source Rmf / Rmc

PRESS

FILTER

Rm @ BHT

0.11 @102.0

ohm-m

Time Since Circulation

03:15 29-MAR

Max Recorded Temp

102.00

deg F

Equipment / Base

2

TALARA

Recorded By

Y. MENDEZ

E. ROLDAN

Witnessed By

DENNIS PAZ

**REMARKS**

1. Objective: To obtain accurate open hole Gamma Ray, Neutron, Caliper, Resistivity Log (Dual Laterolog) in Compact Well Shuttle - Messenger Conveyance.
2. Maximum recorded temperature 102 degF recorded.
3. Fluid resistivity measurements during logging operation: Rmf= 0.11 @ 75deg F, Rm=0.15 @ 75Deg F, Rmc=0.28 @ 75degF.
4. This is a deviated well with a maximum deviation of 66.04 degrees @ 4,046.05.00 ft MD.
5. Well sketch per driller's depth.
6. Bottom not tagged due to nature of the conveyance. Maximum depth recorded in Log header (8,182.90 ft MD) is the maximum depth reached by the induction tool in the run.
7. Logging speed below 30 ft/min (following operational procedure).
8. Main Section from 8,182.9 ft MD to 5673.3 ft MD, as requested.
9. No Repeat Section performed due to deployment method used in the job.
10. Resistivity curves (Dual laterolog) presented in this log are not corrected for borehole conditions.
11. Neutron log is corrected by temperature and borehole size by the density caliper.
12. Density log is corrected for mud density and borehole size by density caliper. Matrix used: 2,68 g/cc
13. Calculated Volumes and caliper averages from 8,182.90 ft MD to 5,673.3 ft MD, for a future 5.5 O.D casing:  
Hole Volume= 1100 FT 3  
Annular Volume = 695 FT 3  
Caliper Average = 9.055 in.
14. Flow test were done at the following depths: 400ft, 1500ft, 3000ft ,4500ft, 5600ft, 6600ft, 7600ft, 80370ft.

Crew at your service

Y. Mendez, E. Roldan, J. Guerrero, P. Marcelo, G. Chavez

**BOREHOLE RECORD**

Last Edited: 29-MAR-2014 04:09

Bit Size  
inches

17.000

Depth From  
feet

0.00

Depth To  
feet

1625.00

| 17.000        | 12.250         | 0.00               | 1625.00            | 1020.00             |
|---------------|----------------|--------------------|--------------------|---------------------|
|               | 8.500          |                    | 5673.00            | 8198.00             |
| CASING RECORD |                |                    |                    |                     |
| Type          | Size<br>inches | Depth From<br>feet | Shoe Depth<br>feet | Weight<br>pounds/ft |
| SURFACE       | 13.375         | 0.00               | 1625.00            | 48.00               |
| CASING        | 9.625          | 0.00               | 5673.00            | 43.50               |

WELL DIAGRAM

13.38 in Casing: 0.00 ft

9.63 in Casing: 0.00 ft

17.00 in Bit size: 0.00 - 1625.00 ft

13.38 in Casing shoe: 1625.00 ft

12.25 in Bit size: 1625.00 - 5673.00 ft

9.63 in Casing shoe: 5673.00 ft

8.50 in Bit size: 5673.00 - 8198.00 ft

Total bit depth: 8198.00 ft

Temperature: 102.00 Degrees F

DOWNHOLE EQUIPMENT

C:\LOGS\SAVIA\LO6-30D\MAIN PASS LO6-30D.dta

Shuttle Running Tool 3.5" (SRT A)

SRT-A 103 LG: 6.47 ft WT: 37.5 lb OD: 2.52 in

SKJ-E.A Compact Knuckle Joint

SKJ-E.A 177 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS-F.A 200v Compact Battery Sub

MBS-F.A 71 LG: 10.61 ft WT: 70.5 lb OD: 2.24 in

Compact Memory Sub F.A

MMS-F.A 250 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub

MIS-E.B 641 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Stiff Bridle Electrode Sub.

MBE-C.B 261 LG: 12.33 ft WT: 77.2 lb OD: 2.28 in

Compact Stiff Bridle Electrode Sub.  
MBE-C.B 262 LG: 12.33 ft WT: 77.2 lb OD: 2.28 in

Compact Stiff Bridle Electrode Sub.  
MBE-A.A 56 LG: 12.33 ft WT: 77.2 lb OD: 2.24 in

MIS-B Compact Inline Standoff sub  
MIS-B 230 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Short Gamma  
MGS-C.A 43 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

Compact Collar Locator  
MCL-B.J 57 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.A Compact Knuckle Joint  
SKJ-E.A 180 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor  
SHA-J.A 230 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub  
MIS-D.B 755 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron  
MDN-A.B 175 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper  
MPD-C.A 197 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub  
MIS-D.B 756 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

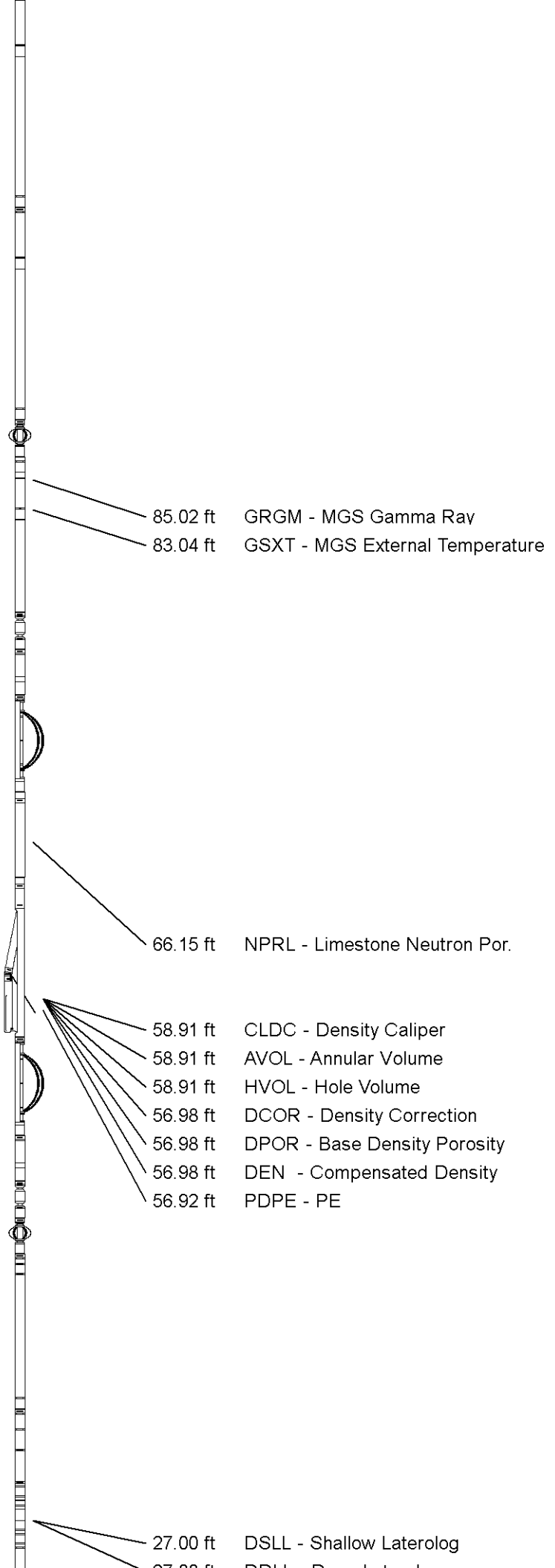
SHA-J.B Compact Swivel Head Adaptor  
SHA-J.B 486 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.A Compact Knuckle Joint  
SKJ-E.A 171 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-B Compact Inline Standoff sub  
MIS-B 98 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Upper Guard sub  
MUG-B.B 260 LG: 8.98 ft WT: 68.3 lb OD: 2.24 in

Compact Laterolog Electrode Sub.  
MLE-D.A 228 LG: 12.34 ft WT: 92.6 lb OD: 2.24 in



Compact Lower Guard Sub.  
MLG-B.B 257 LG: 8.00 ft WT: 55.1 lb OD: 2.24 in

MIS-E.A Compact Inline Standoff sub  
MIS-E.A 152 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

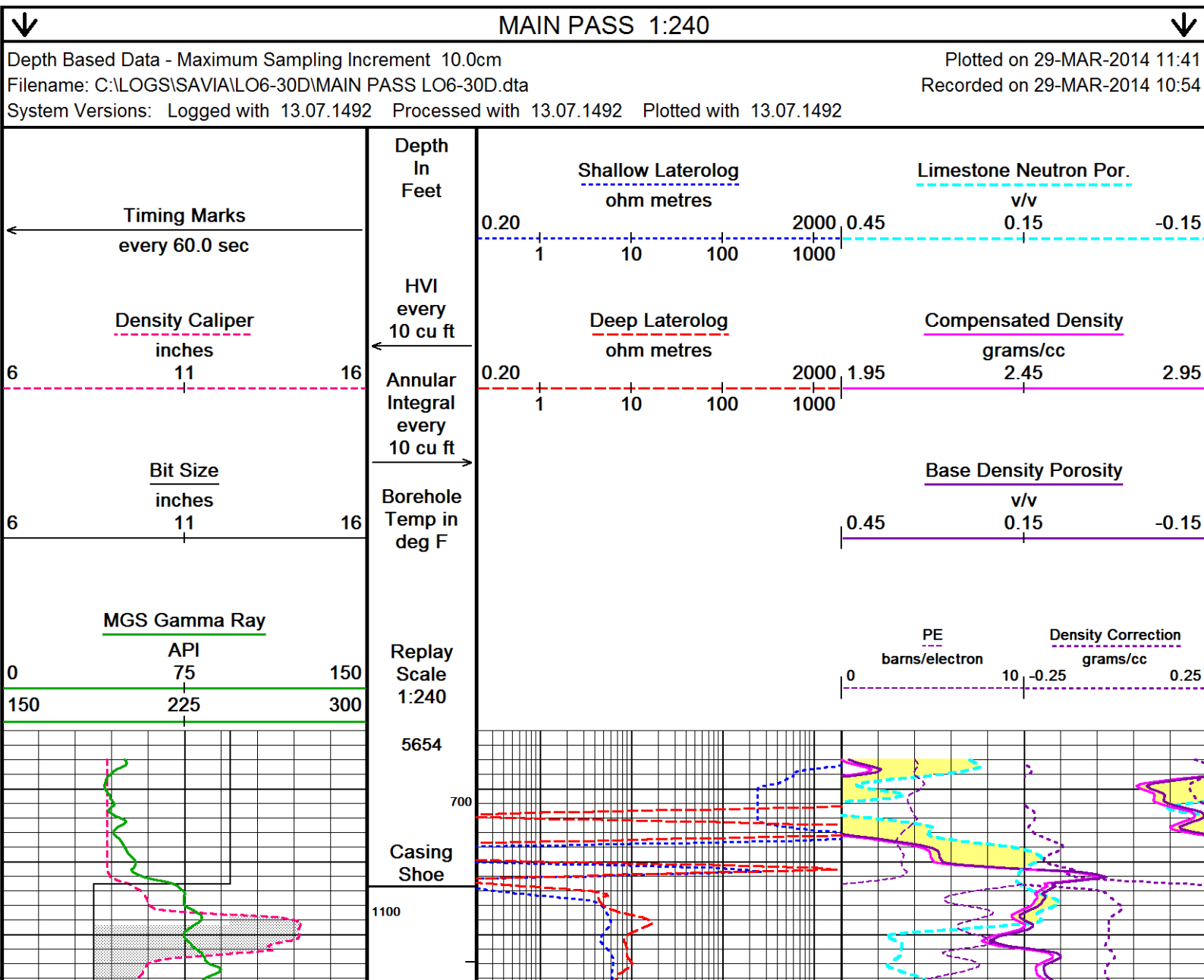
Compact Induction  
MAI-B.A 223 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

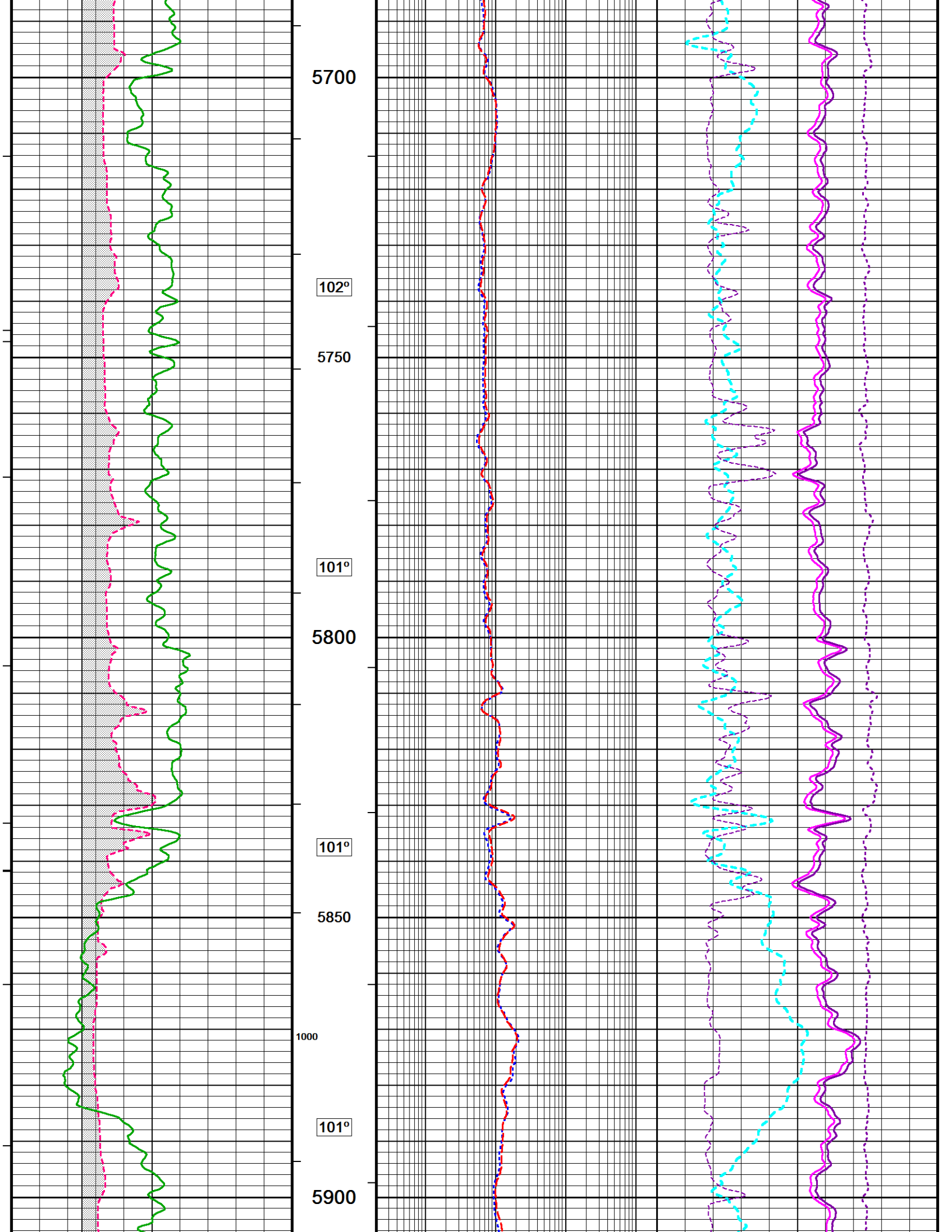
Total Length: 151.66 ft Weight: 1078.1 lb

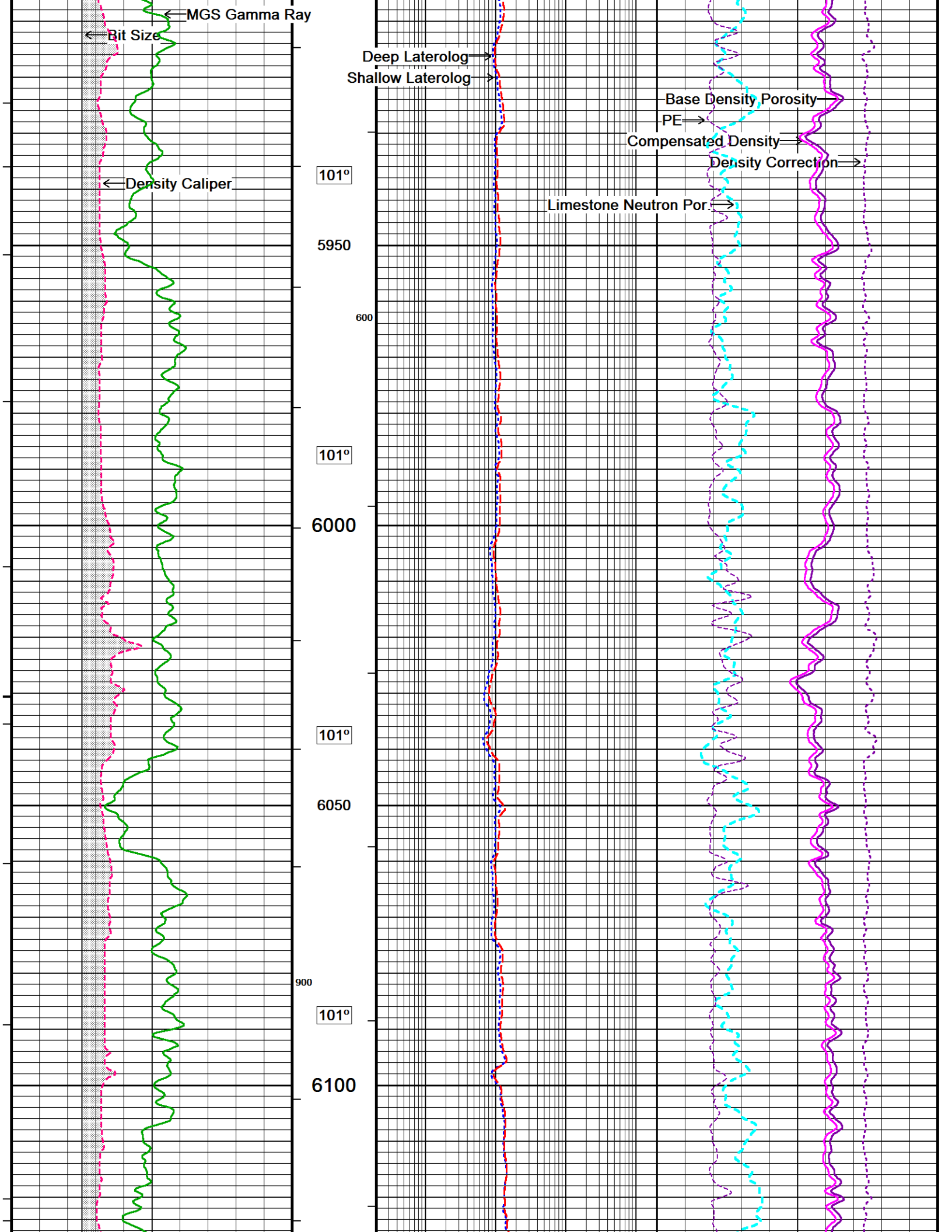


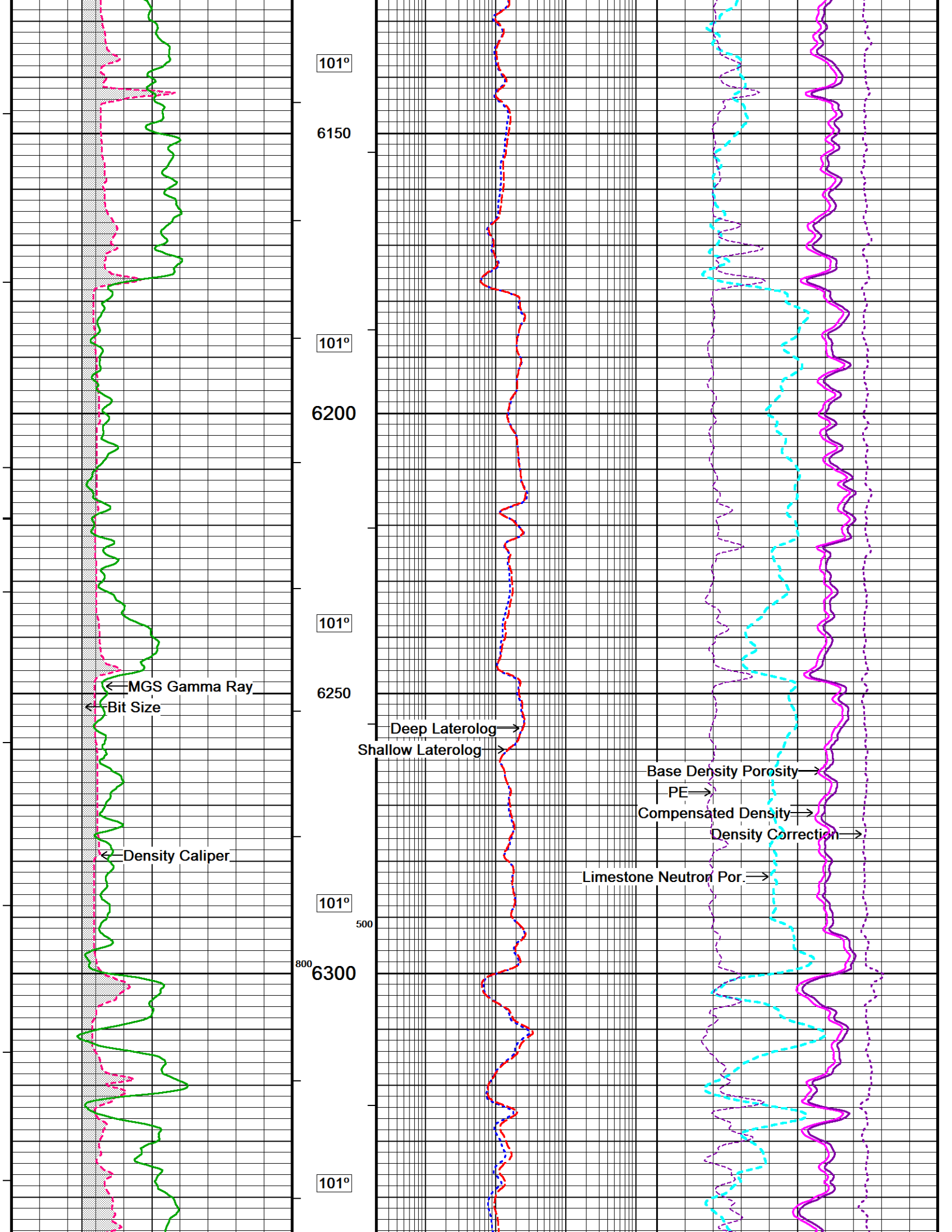
Tool Zero (0.13ft from bottom)  
All measurements relative to tool zero.

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.

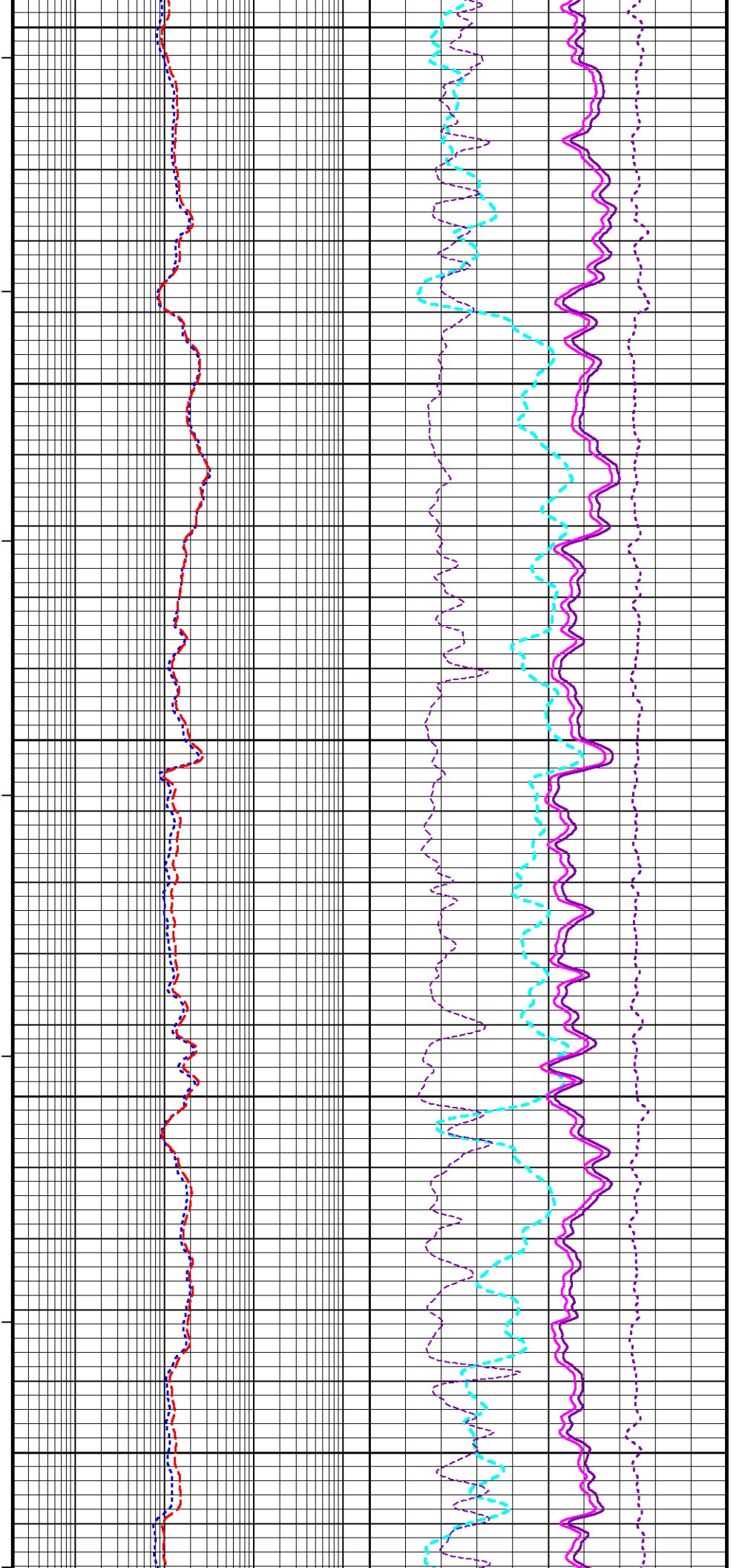
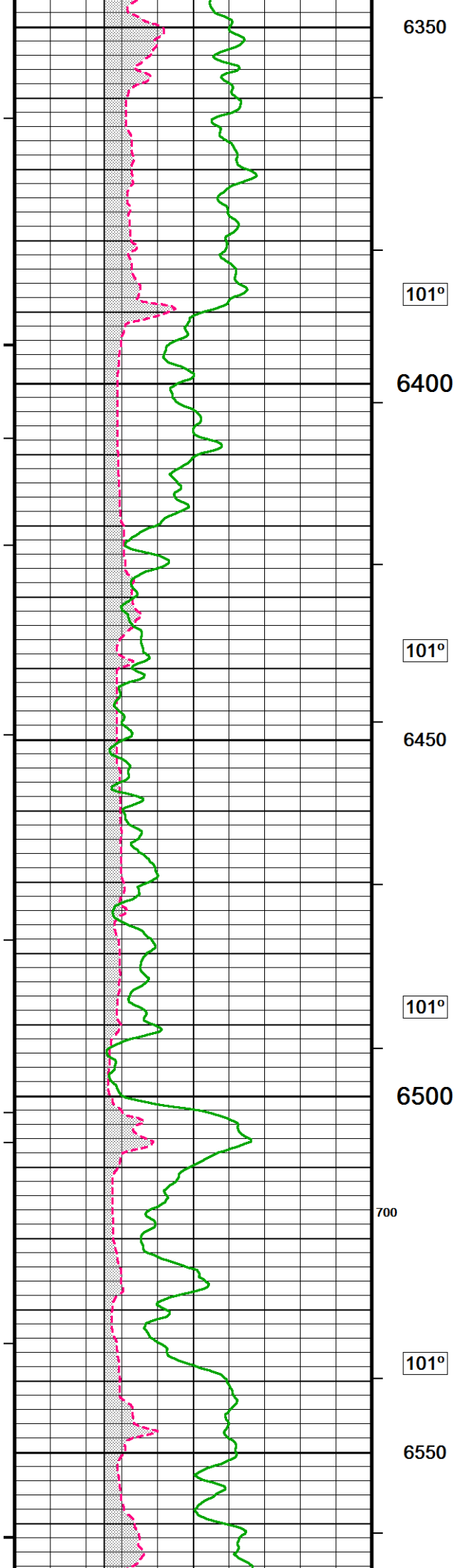




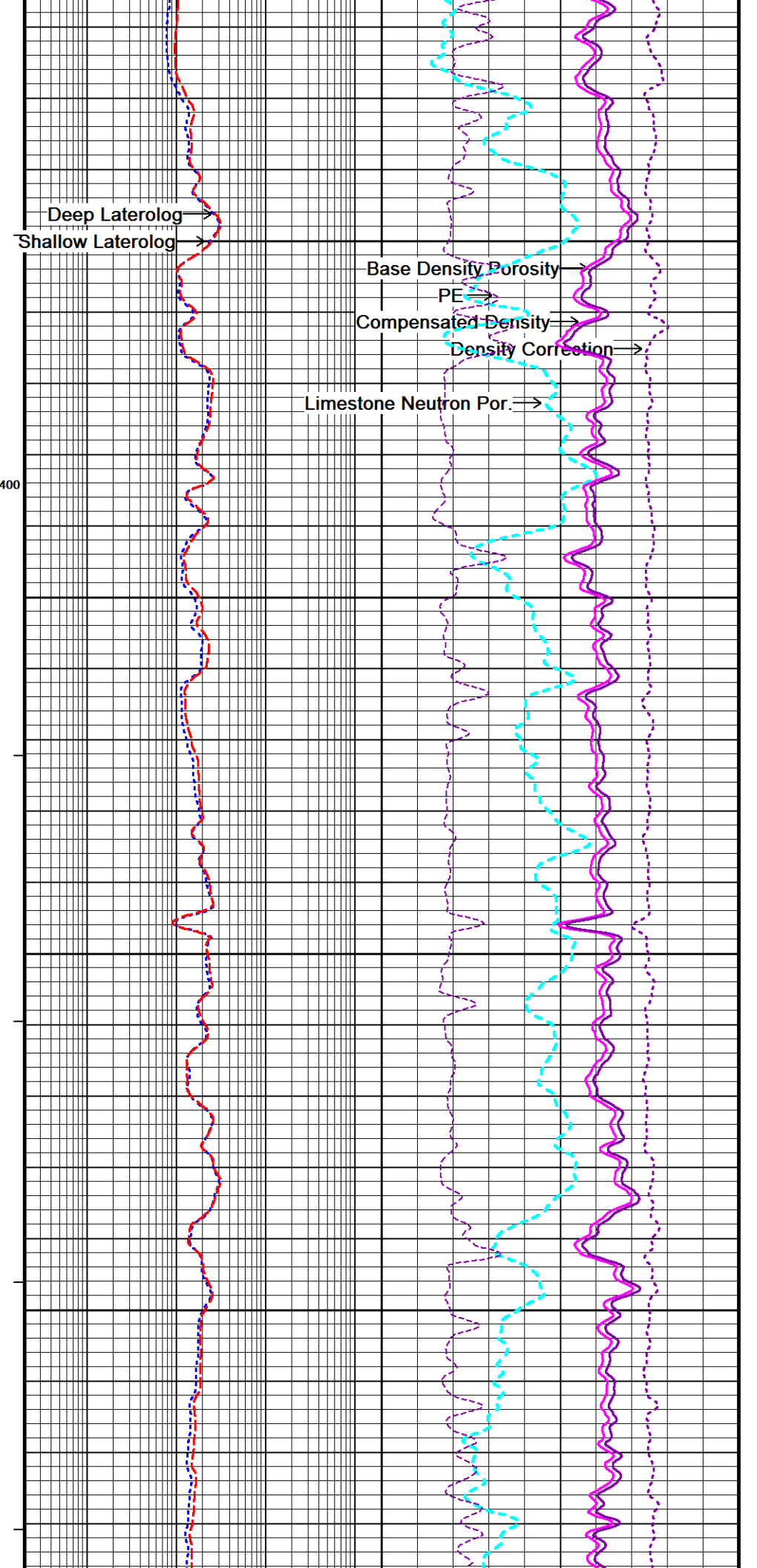
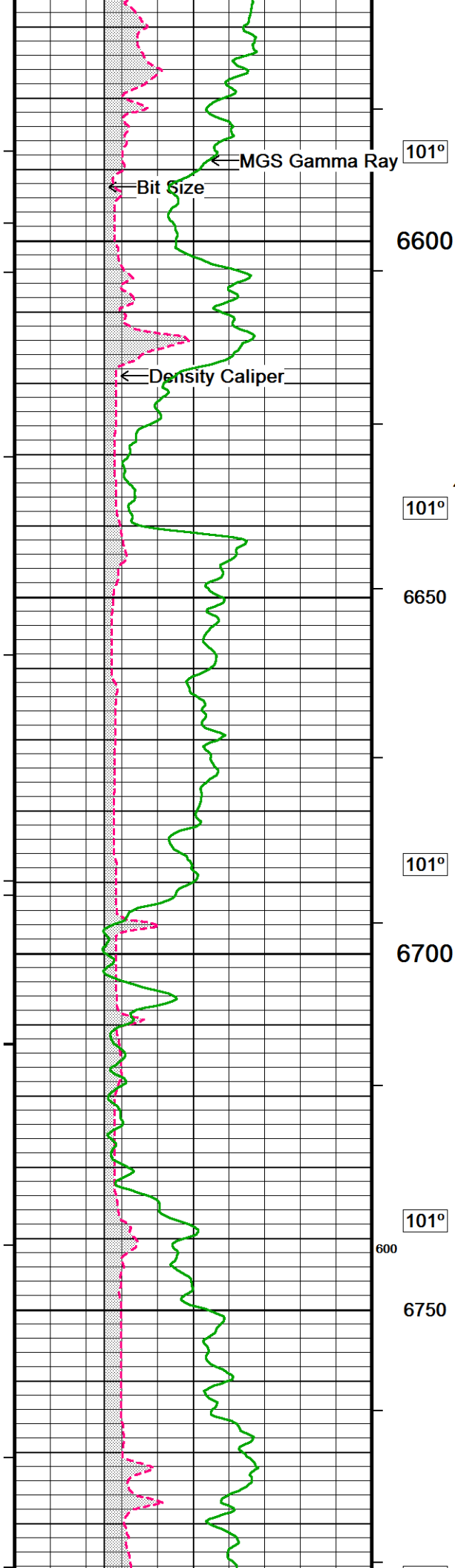


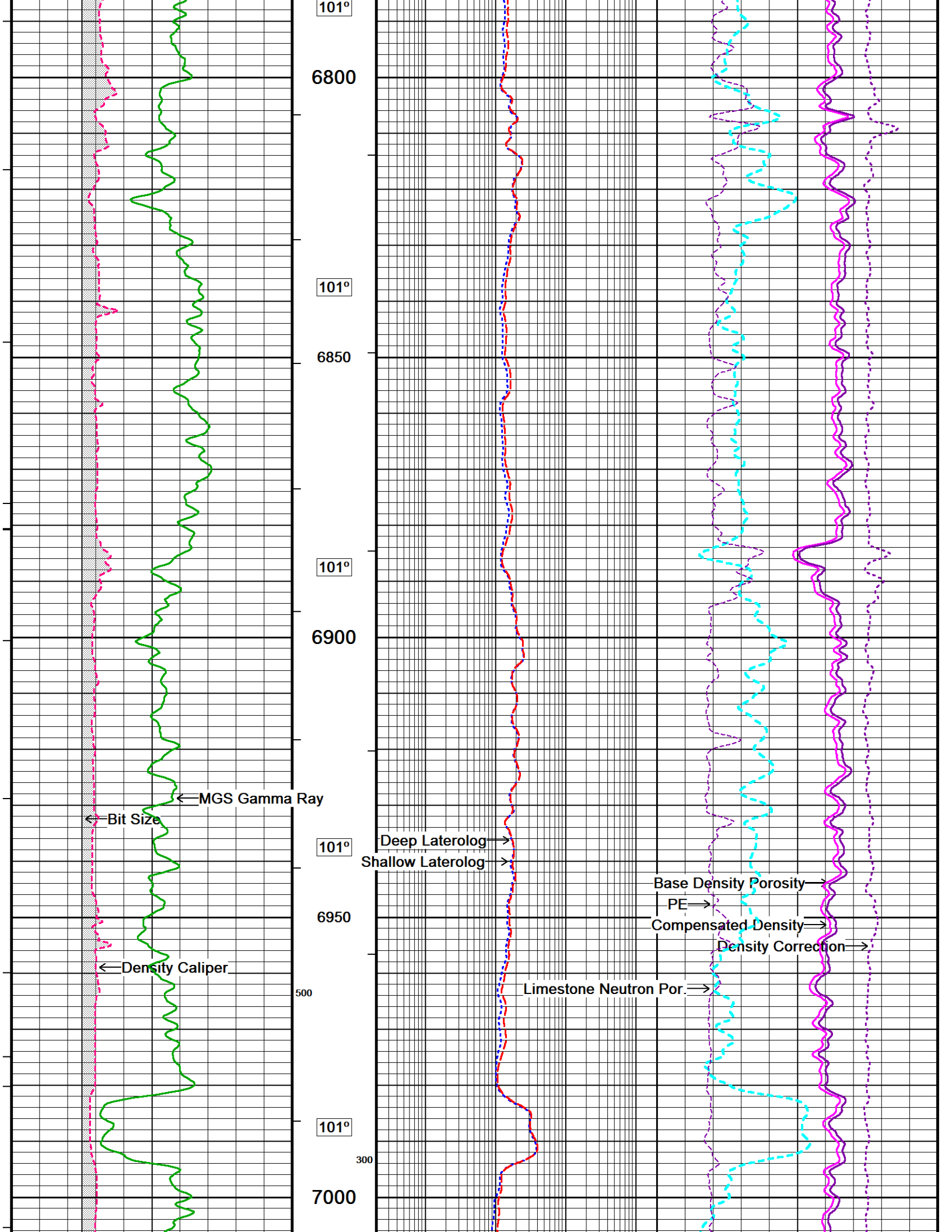


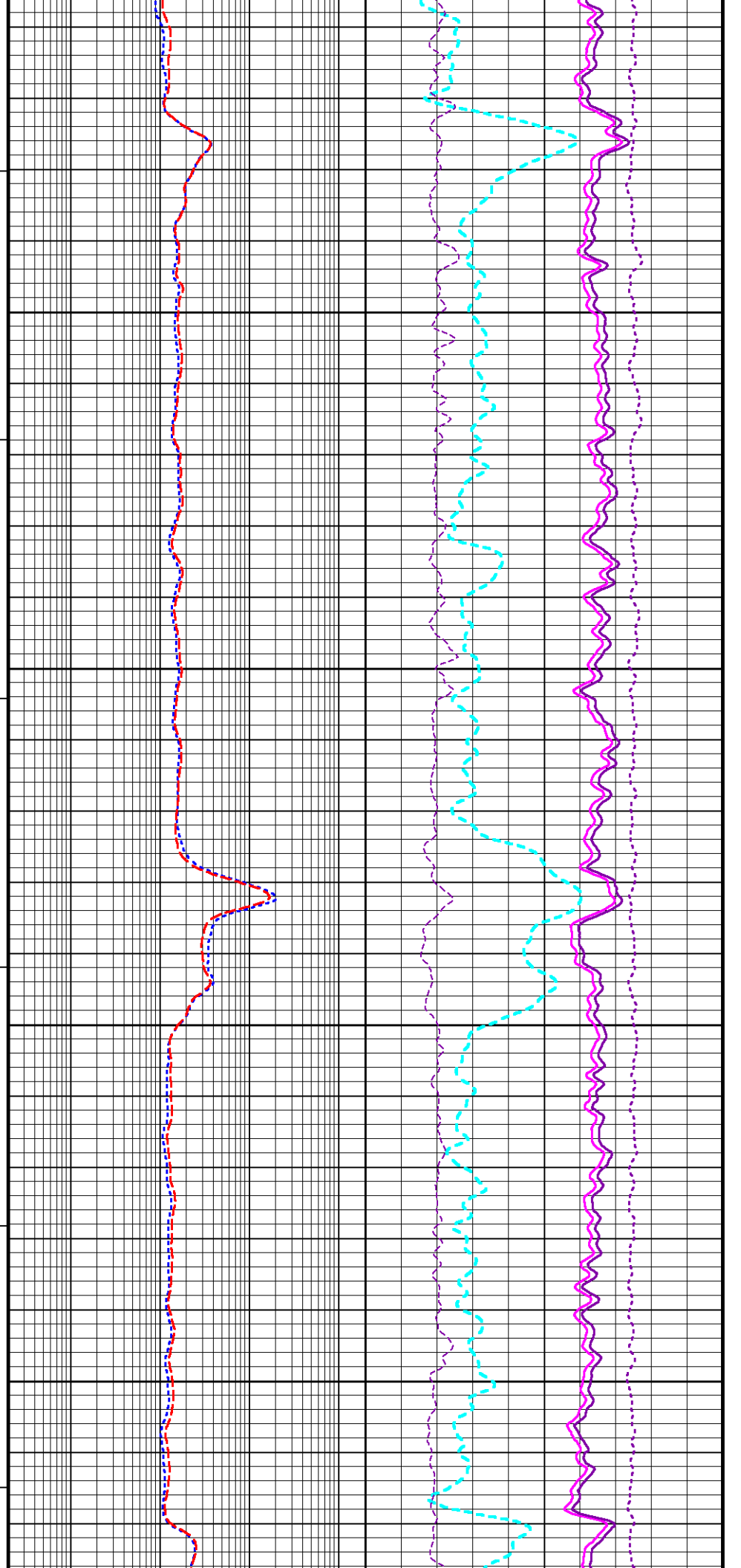
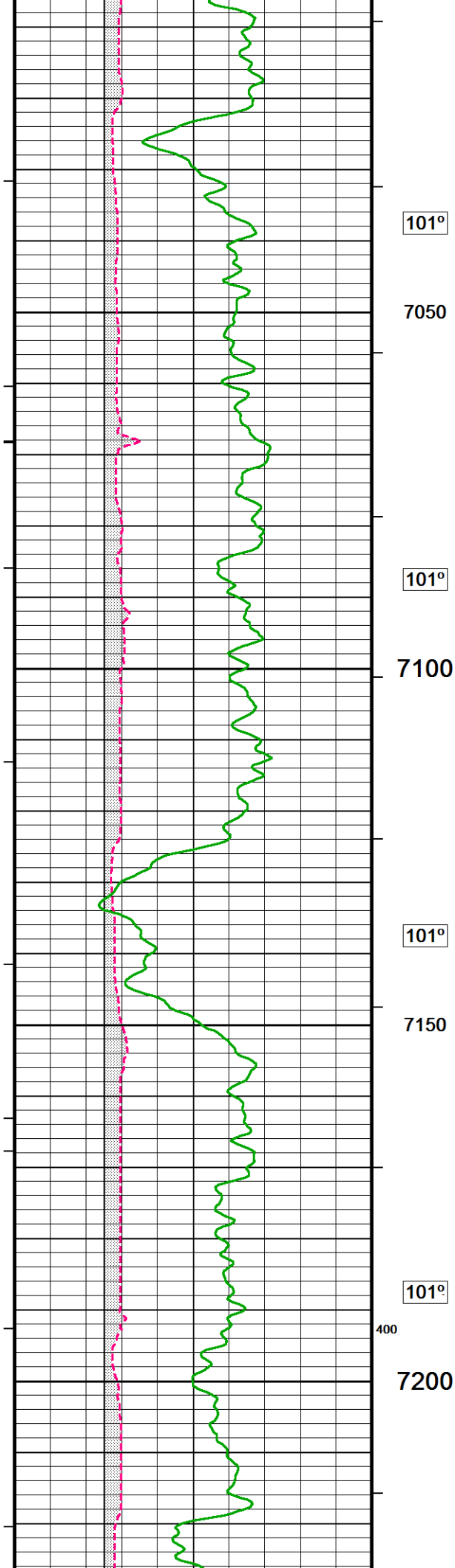


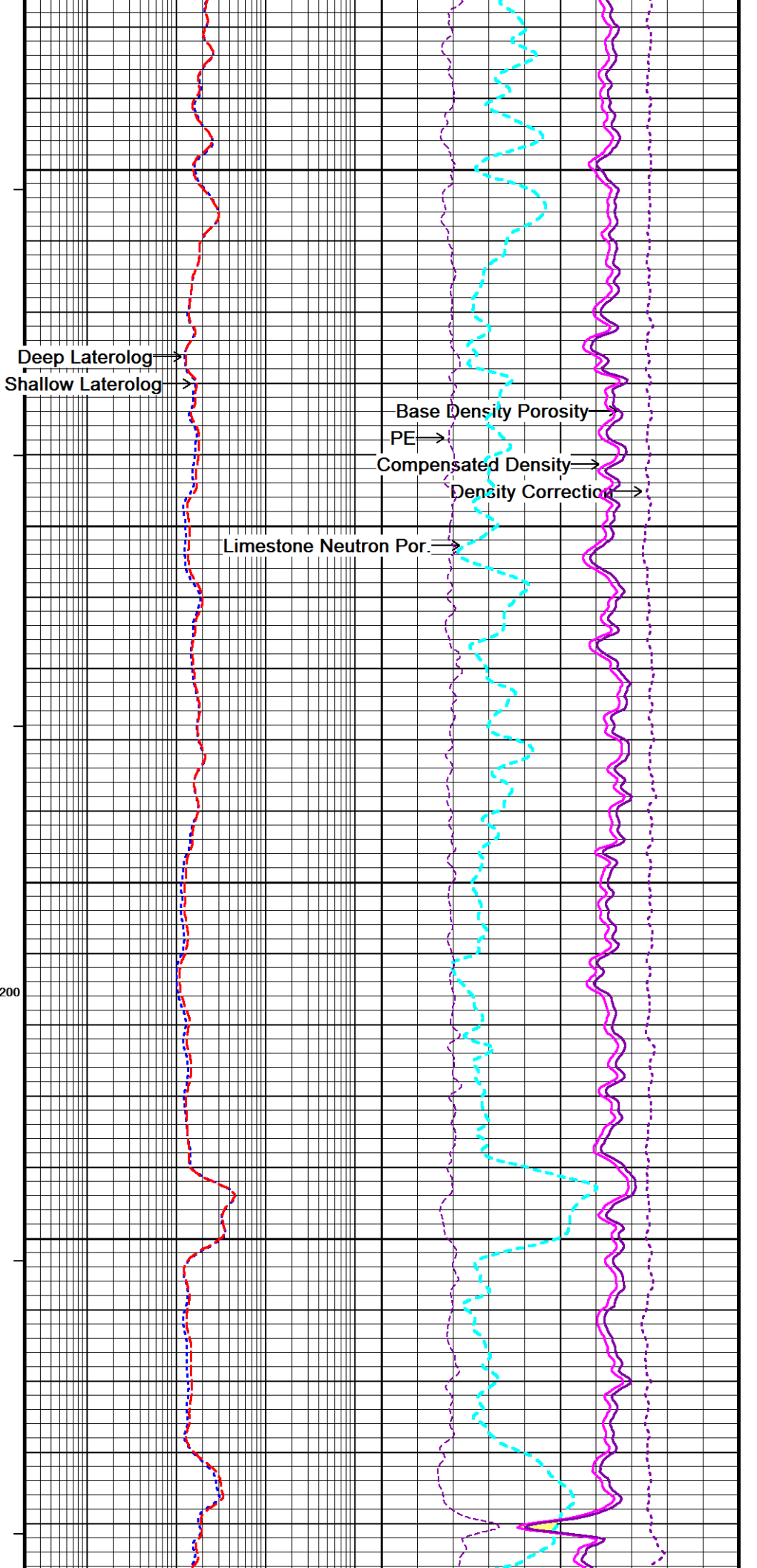
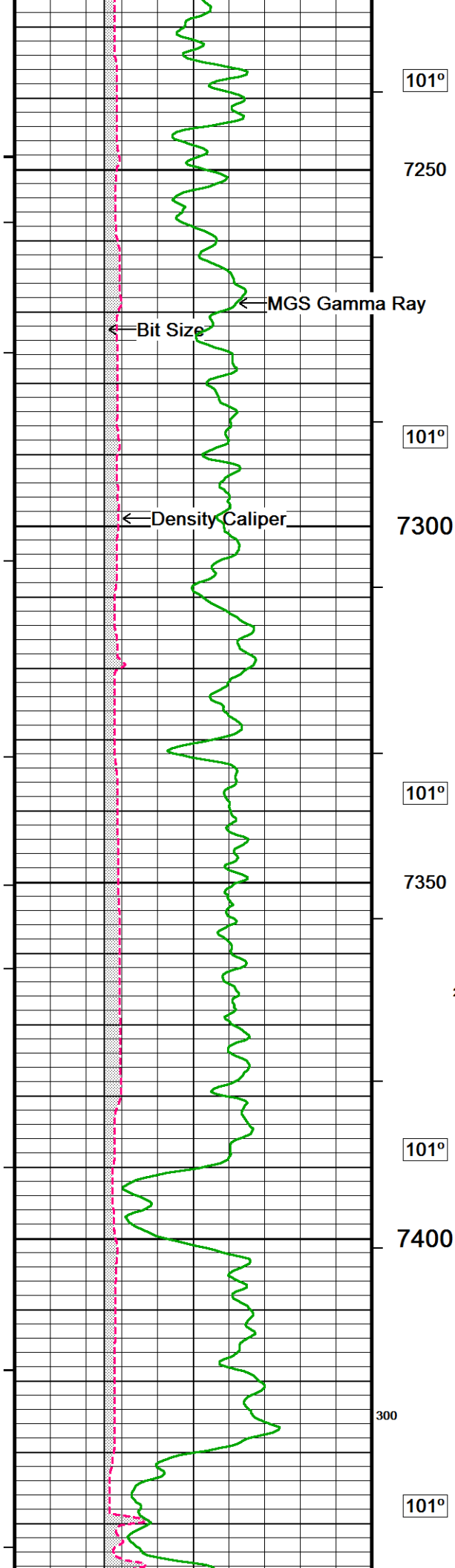


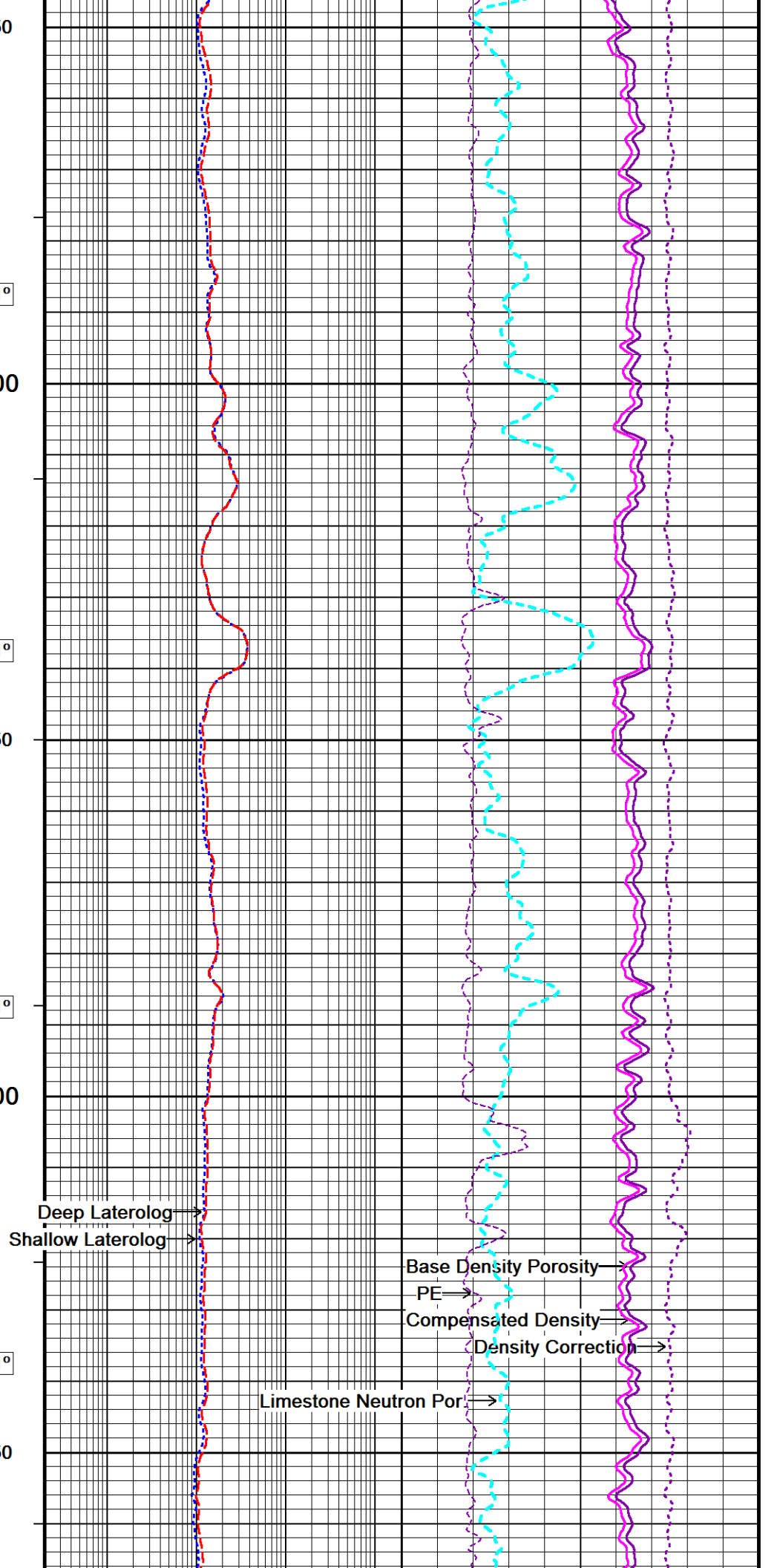
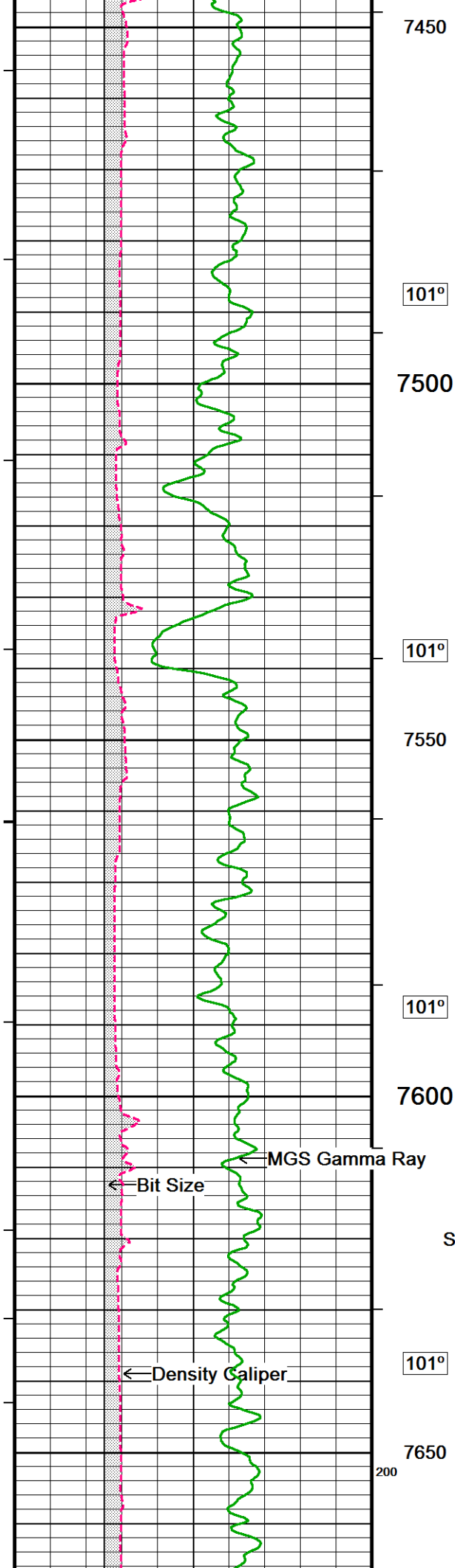


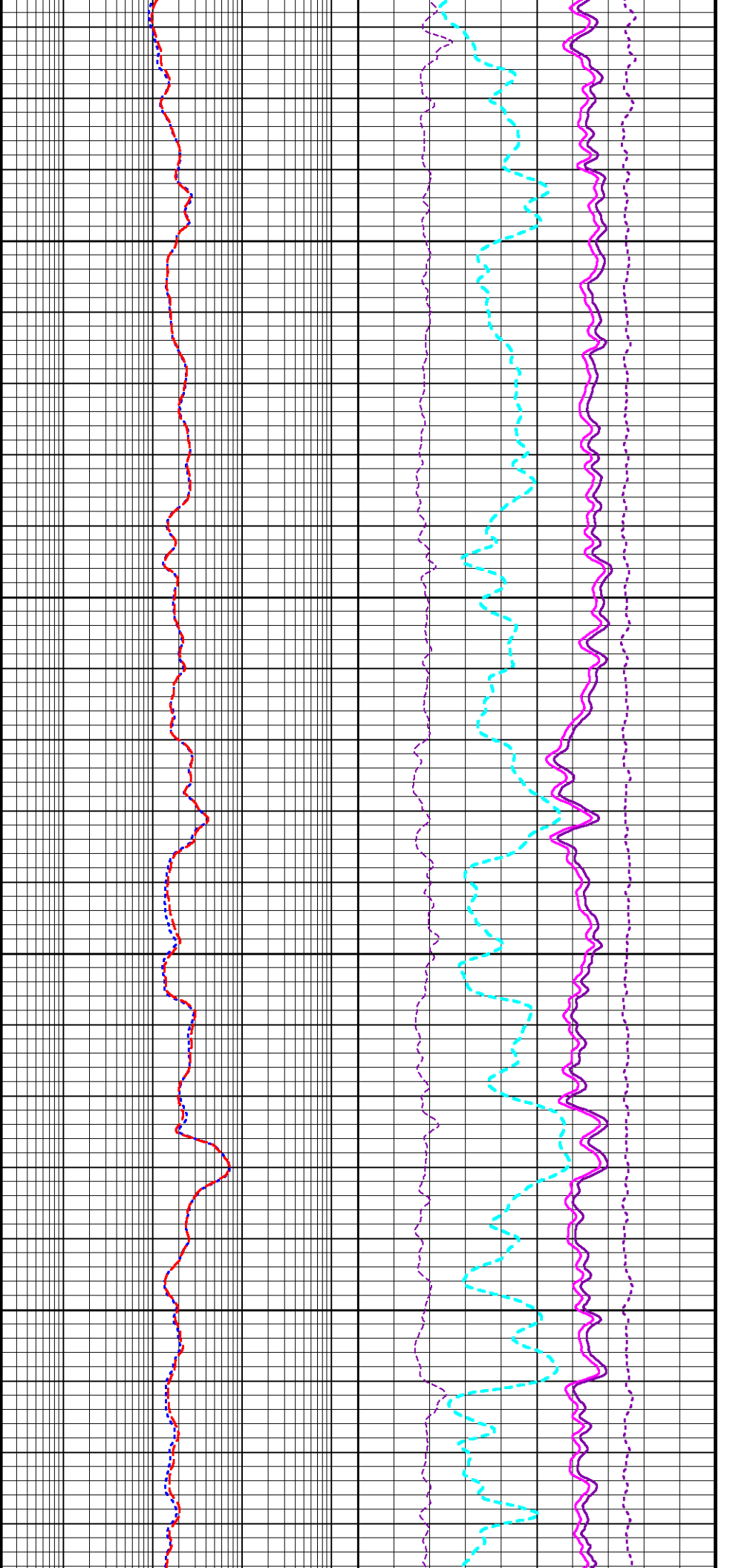
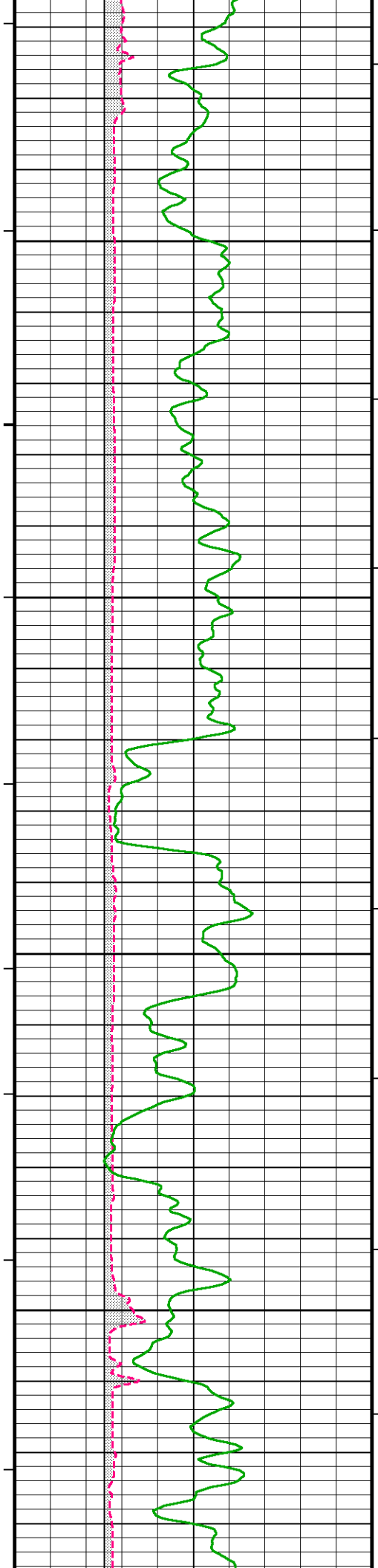


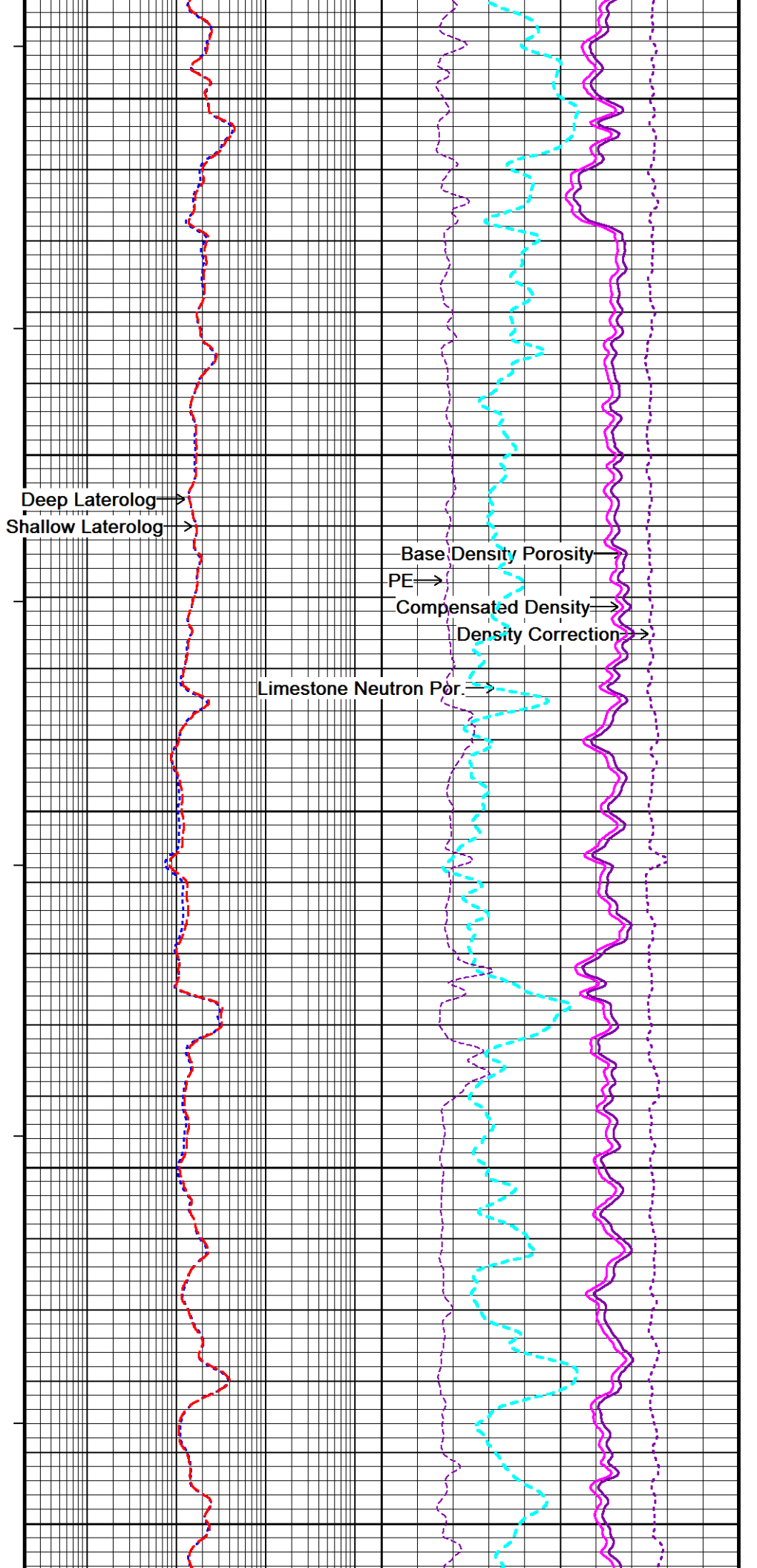
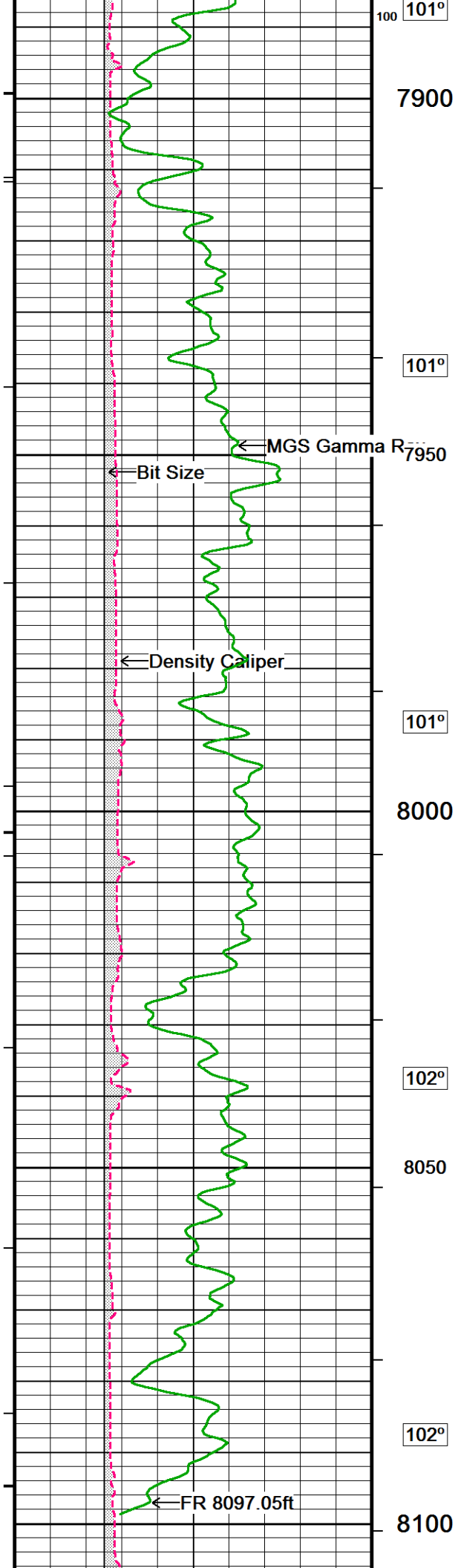




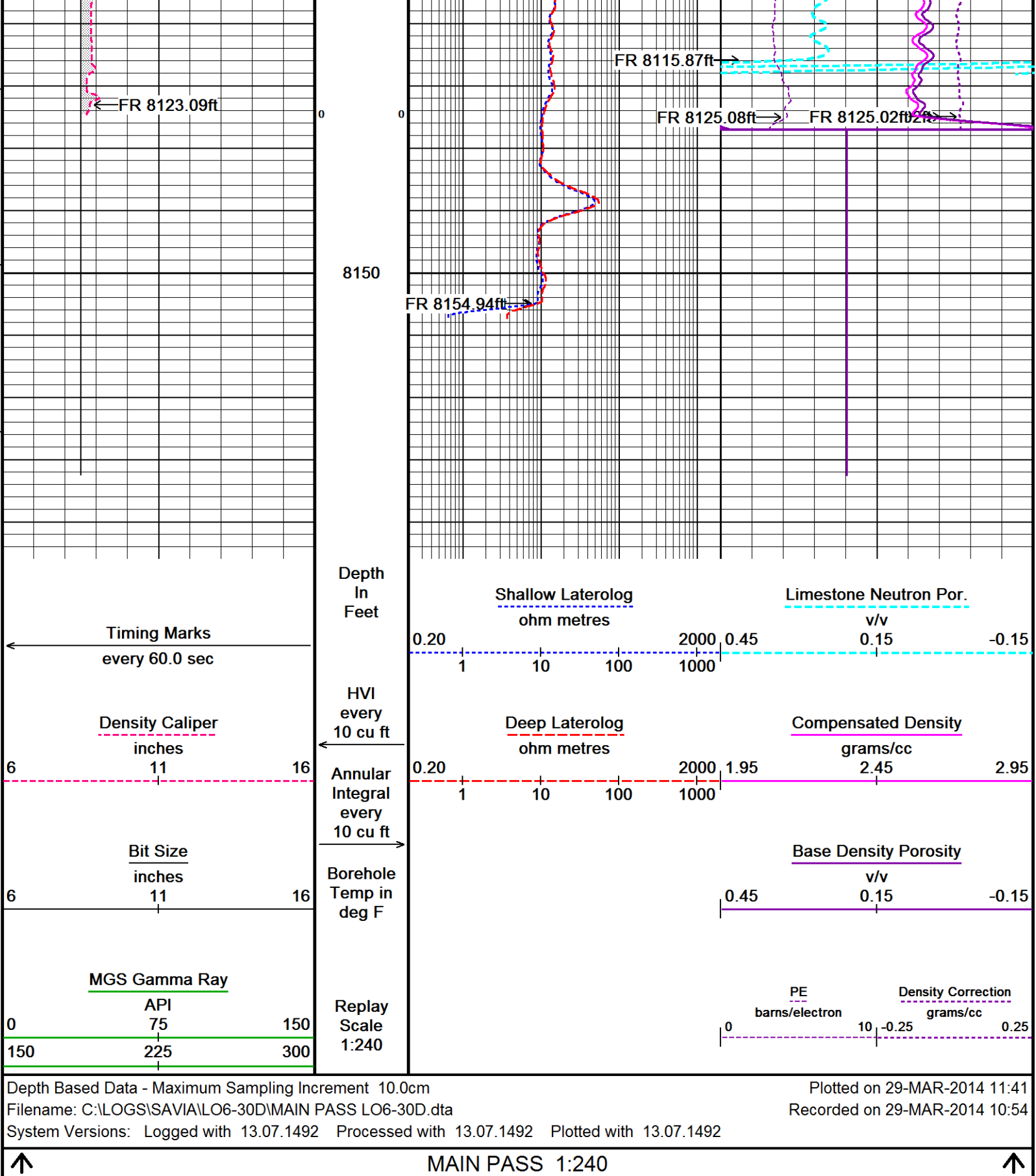












|                 |                  |
|-----------------|------------------|
| COMPANY         | SAVIA PERU S.A   |
| WELL            | LO6-30D          |
| FIELD           | LOBITOS OFFSHORE |
| PROVINCE/COUNTY | PIURA            |
| COUNTRY/STATE   | PERU             |

|                         |        |      |               |         |      |
|-------------------------|--------|------|---------------|---------|------|
| Elevation Kelly Bushing | 385.00 | feet | First Reading | 8154.94 | feet |
| Elevation Drill Floor   | 385.00 | feet | Depth Driller | 8198.00 | feet |
| Elevation Ground Level  | 335.00 | feet | Depth Logger  | 8182.90 | feet |

  
**Weatherford**<sup>®</sup>

COMBINED LOG

MDL-MGS-MDN-MPD

SCALE 5":100