



Weatherford

**NUCLEAR LOG
MGS-MDN-MPD
SCALE 2":100**

COMPANY

SAVIA PERU S.A

WELL

LOG-33D

FIELD

LOBITOS OFFSHORE

PROVINCE/COUNTY

PIURA

COUNTRY/STATE

PERU

LOCATION

N: 9°50'8.652.99 m
E: 459,049.25 m

Latitude
Longitude

Other Services
MDL

Permanent Datum SEA LVL, Elevation 335 feet

Log Measured From DF

Drilling Measured From DF

Elevations:
KB 385.00
DF 385.00
GL 335.00

Date

04-AUG-2013

Run Number

1

Service Order

834

Depth Driller

8150.00 feet

Depth Logger

8128.25 feet

First Reading

8071.73 feet

Last Reading

5708.00 feet

Casing Driller

5707.00 feet

Casing Logger

5708.00 feet

Bit Size

8.500 inches

Hole Fluid Type

WBAC

Density / Viscosity

11.50 lb/USg 48.00 Sec/qt

PH / Fluid Loss

9.40 5.00 ml/30Min

Sample Source

ACTIVE PIT

Rm @ Measured Temp

0.81 @ 75.0 ohm-m

Rmf @ Measured Temp

0.622 @ 75.0 ohm-m

Rmc @ Measured Temp

1.481 @ 75.0 ohm-m

Source Rmf / Rmc

PRESS

Rm @ BHT

1.092 @103.0 ohm-m

Time Since Circulation

1 HOUR

Max Recorded Temp

103.00 deg F

Equipment / Base

2 TALARA

Recorded By

J. GUERRERO

Witnessed By

A. ORTEGA

E. ROLDAN

REMARKS

- Objective: To obtain accurate open hole Gamma Ray, Neutron, Caliper, Resistivity Log (Dual Laterolog) in Compact Well Shuttle - Messenger Conveyance.
- Maximum recorded temperature 103 degF recorded.
- Fluid resistivity measurements during logging operation: Rmf= 0.622 @ 70deg F, Rm=0.807@ 70Deg F, Rmc=1.481@ 70degF.
- This is a deviated well with a maximum deviation of 65.30 degrees @ 2814.00 ft.
- Well sketch per driller's depth.
- Bottom not tagged due to nature of the conveyance. Maximum depth recorded in Log header (8128.25ft) is the maximum depth reached by the induction tool in the run.
- Logging speed below 30 ft/min (following operational procedure).
- Main Section from 8128.25ft to 5708 ft, as requested.
- No Repeat Section performed due to deployment method used in the job.
- Resistivity curves (Dual laterolog) presented in this log are not corrected for borehole conditions.
- Neutron log is corrected by temperature and borehole size by the density caliper.
- Density log is corrected for mud density and borehole size by density caliper. Matrix used: 2,68 g/cc
- Calculated Volumes and caliper averages from 8128.25ft to 5708 ft, for a future 7.0 O.D casing:
Hole Volume= 1235 FT 3
Annular Volume = 605 FT 3
Caliper Average = 9.76 in.
- Flow test were done at the following depths: 200ft, 2000ft, 4000ft, 5500ft, 6500ft, 7500ft, 7975ft.

Crew at your service

J. Guerrero, A. Baca, H. Quezada, J. Escobar, E. Roldan

BOREHOLE RECORD

Last Edited: 06-AUG-2013 08:59

Bit Size
inches

17.000

Depth From
feet

0.00

Depth To
feet

1224.00

17.000	0.00	1224.00
12.250	1224.00	5707.00
8.500	5707.00	8150.00

CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	13.375	0.00	1224.00	48.00
CASING	9.625	0.00	5707.00	43.00

13.38 in Casing: 0.00 ft

9.63 in Casing: 0.00 ft

17.00 in Bit size: 0.00 - 1224.00 ft

13.38 in Casing shoe: 1224.00 ft

12.25 in Bit size: 1224.00 - 5707.00 ft

9.63 in Casing shoe: 5707.00 ft

8.50 in Bit size: 5707.00 - 8150.00 ft

Total bit depth: 8150.00 ft

Temperature: 103.00 Degrees F

DOWNHOLE EQUIPMENT

D:\LOGS\PERU\TALARA\LO6-33D-CWS\merge-PROCESS-lo6-33d2.dta

Shuttle Running Tool 3.5"

SRT-A.A 31 LG: 6.62 ft WT: 37.5 lb OD: 2.52 in

SKJ-E.B Compact Knuckle Joint

SKJ-E.B 507 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS-F.A 200v Compact Battery Sub

MBS-F.A 116 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B

MMS-E.B 148 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub

MIS-E.B 640 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.

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-E.A Compact Inline Standoff sub
MIS-E.A 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-D.A Compact Knuckle Joint
SKJ-D.A 170 LG: 2.17 ft WT: 24.3 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

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 238 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

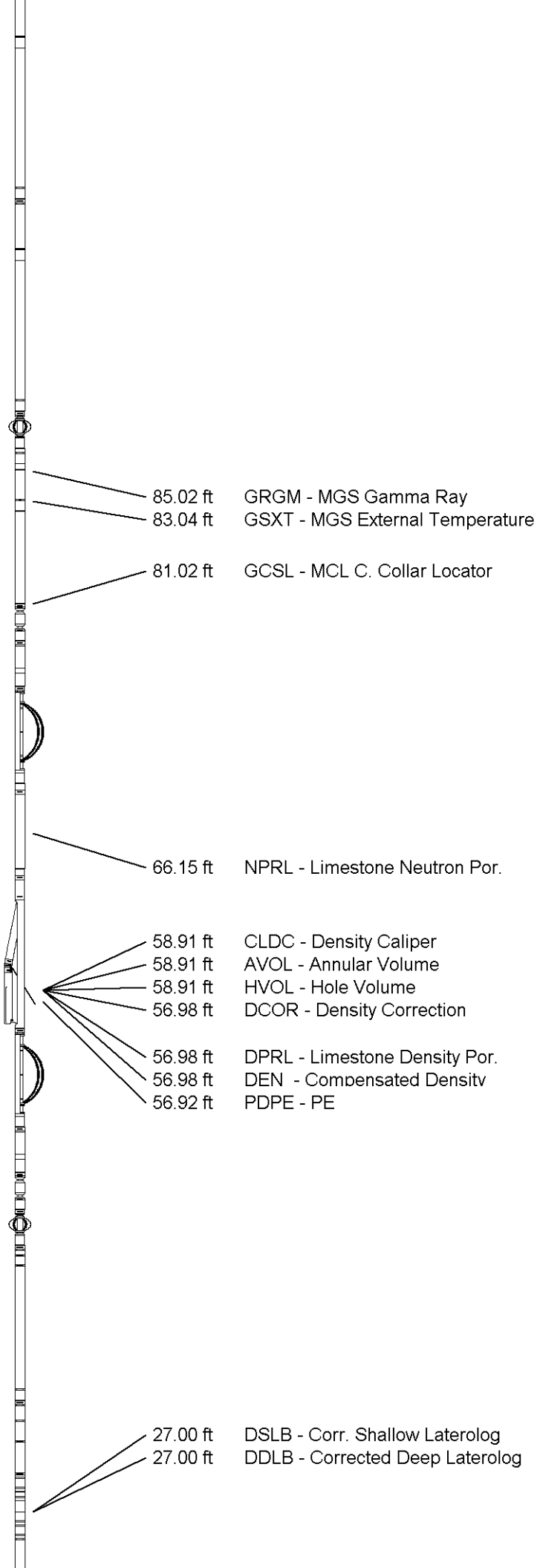
SHA-J.B Compact Swivel Head Adaptor
SHA-J.B 479 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 177 LG: 2.17 ft WT: 24.3 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 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

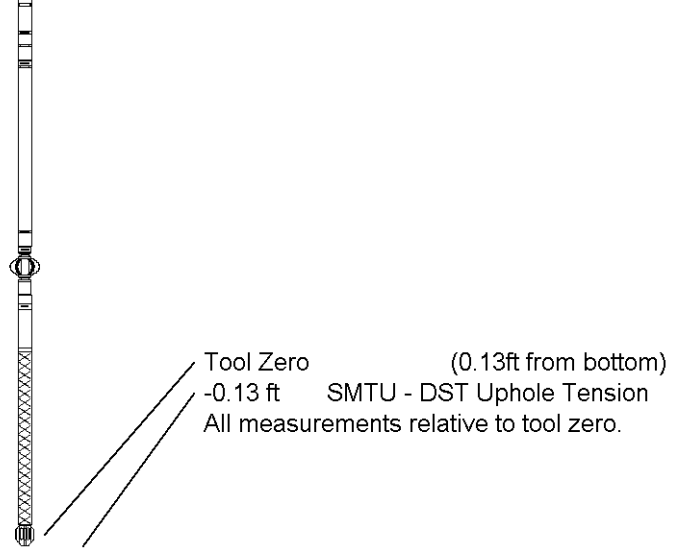


Compact Lower Guard Sub.
MLG-B.B 257 LG: 8.00 ft WT: 55.1 lb OD: 2.24 in

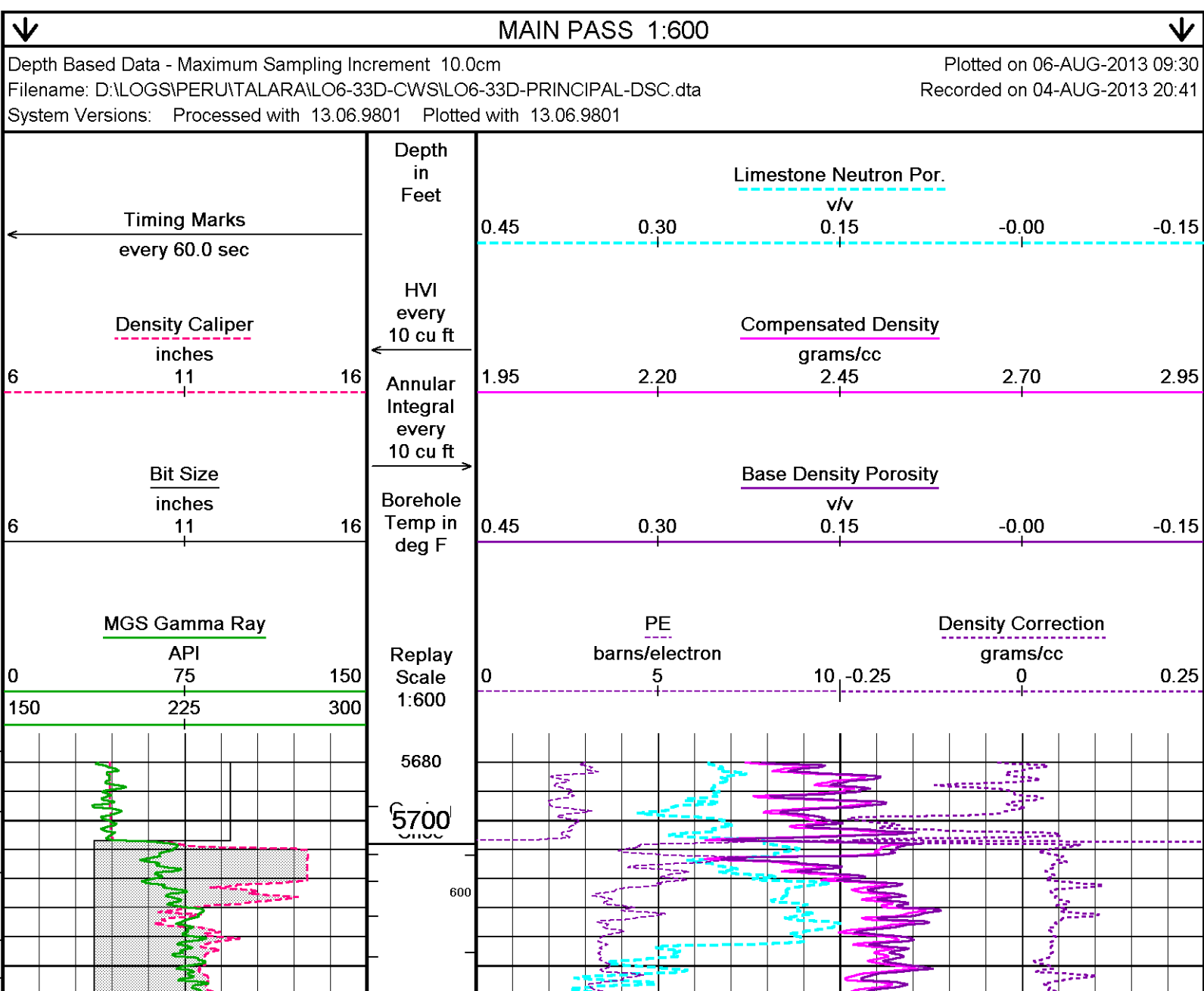
MIS-E.A Compact Inline Standoff sub
MIS-E.A 152 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

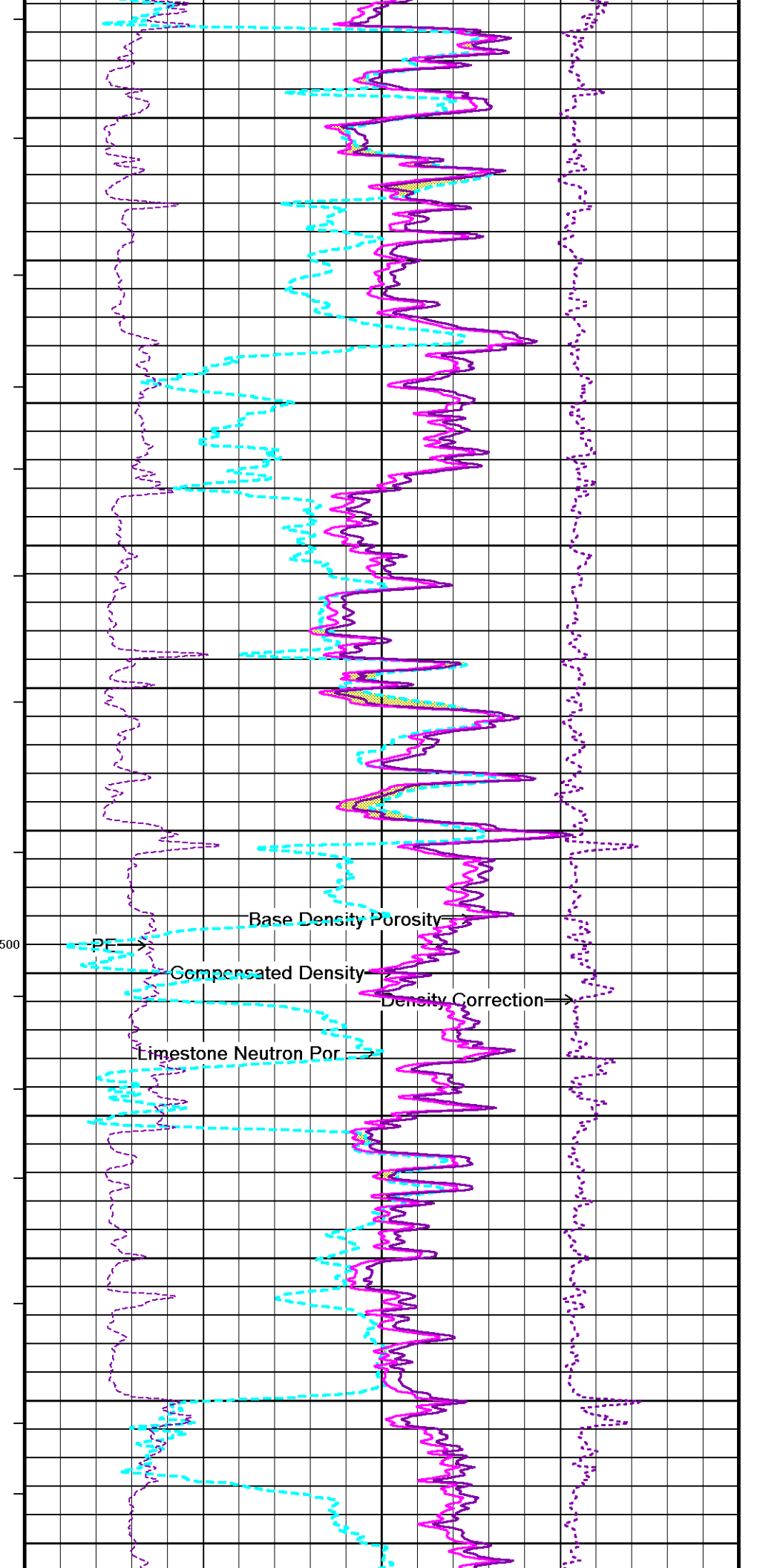
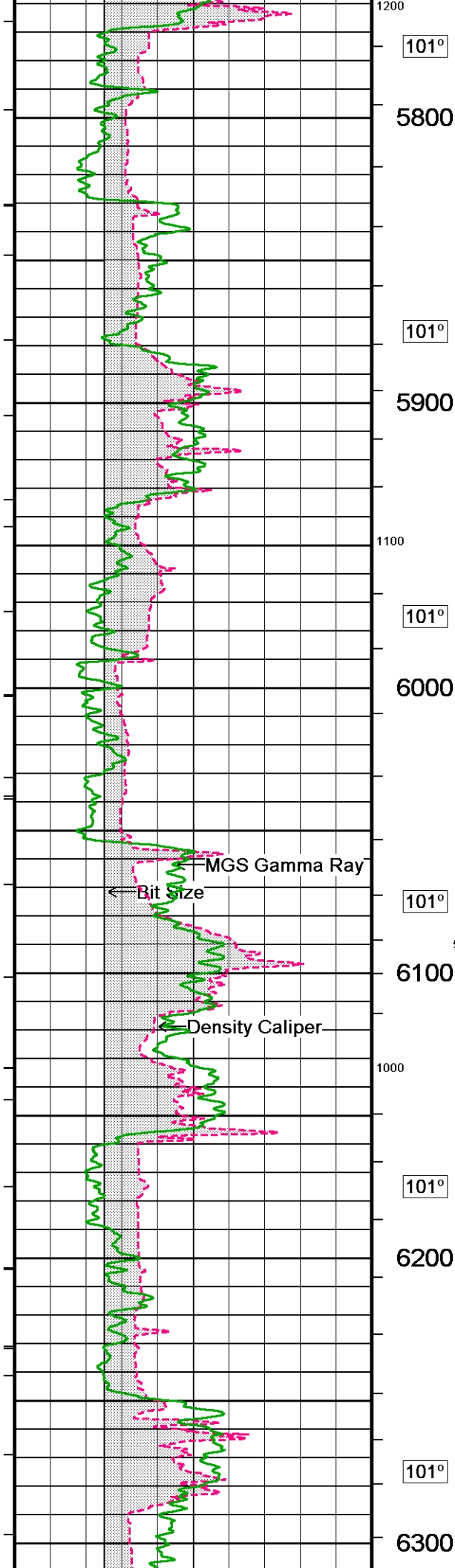
Compact Induction
MAI-B.A 223 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

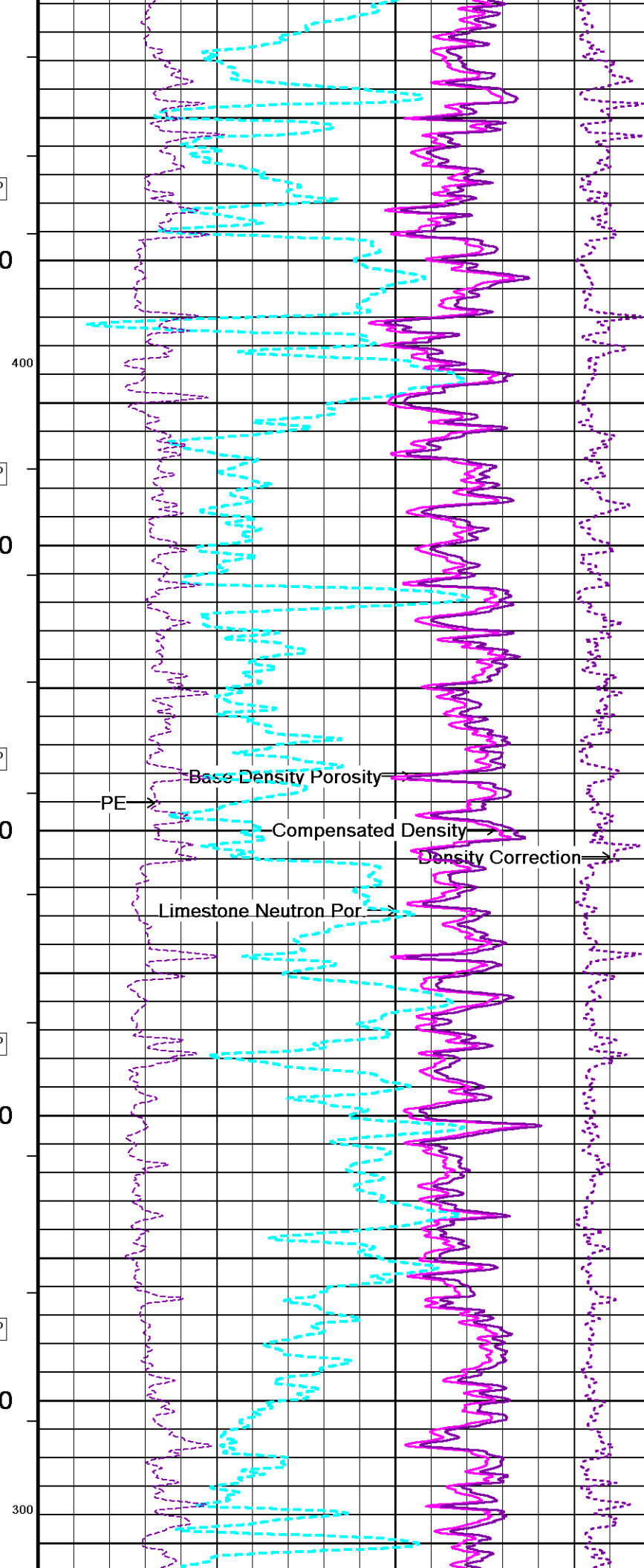
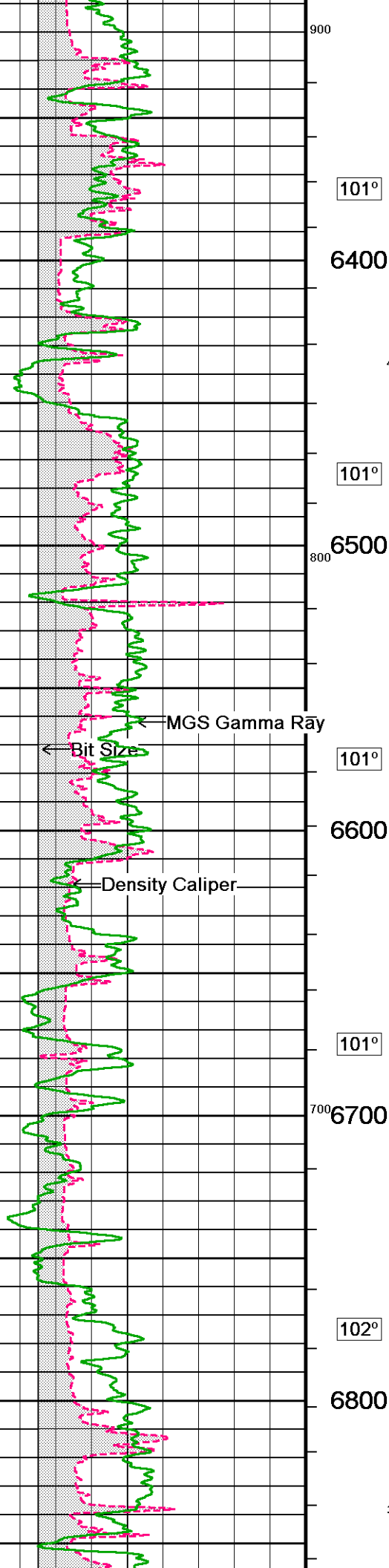
Total Length: 158.25 ft Weight: 1131.0 lb

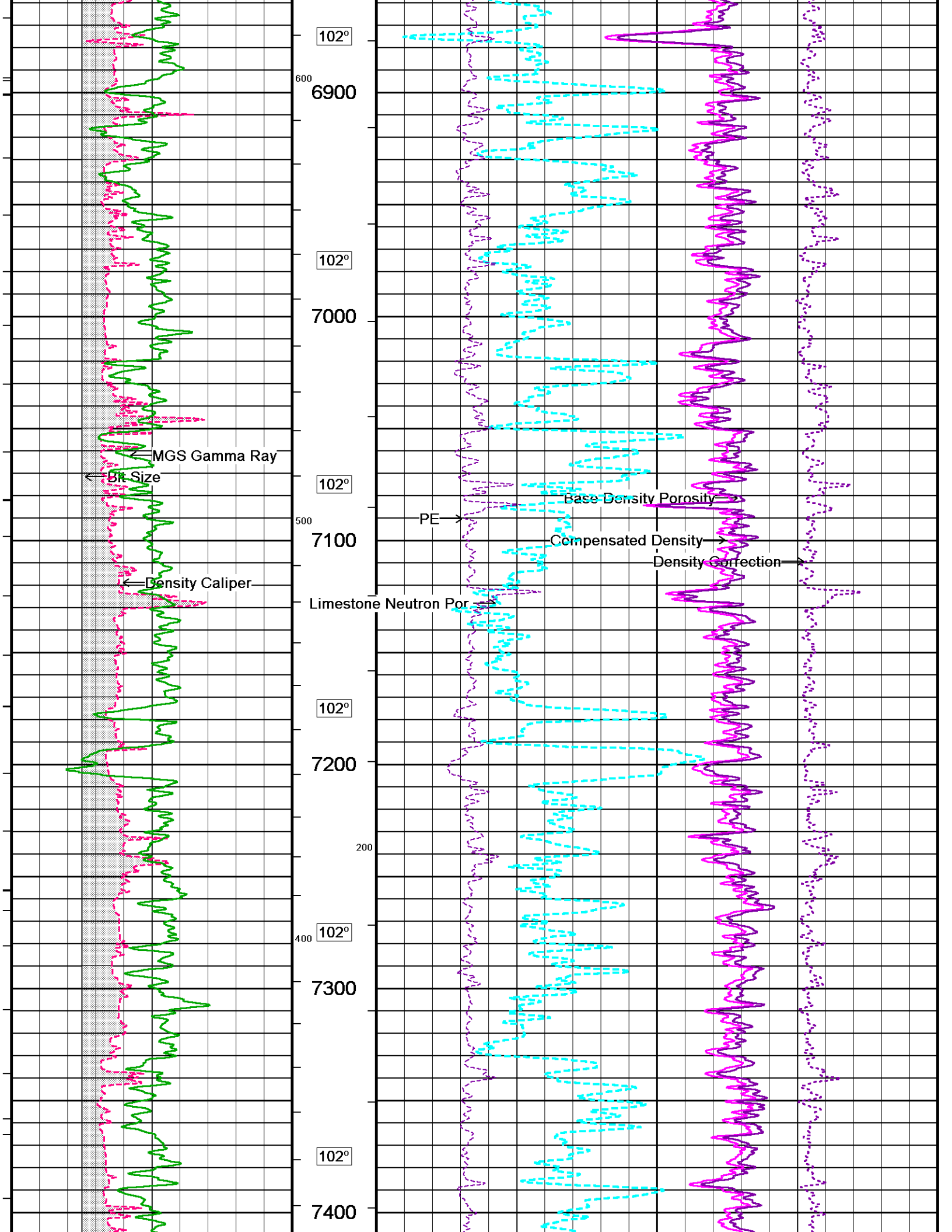


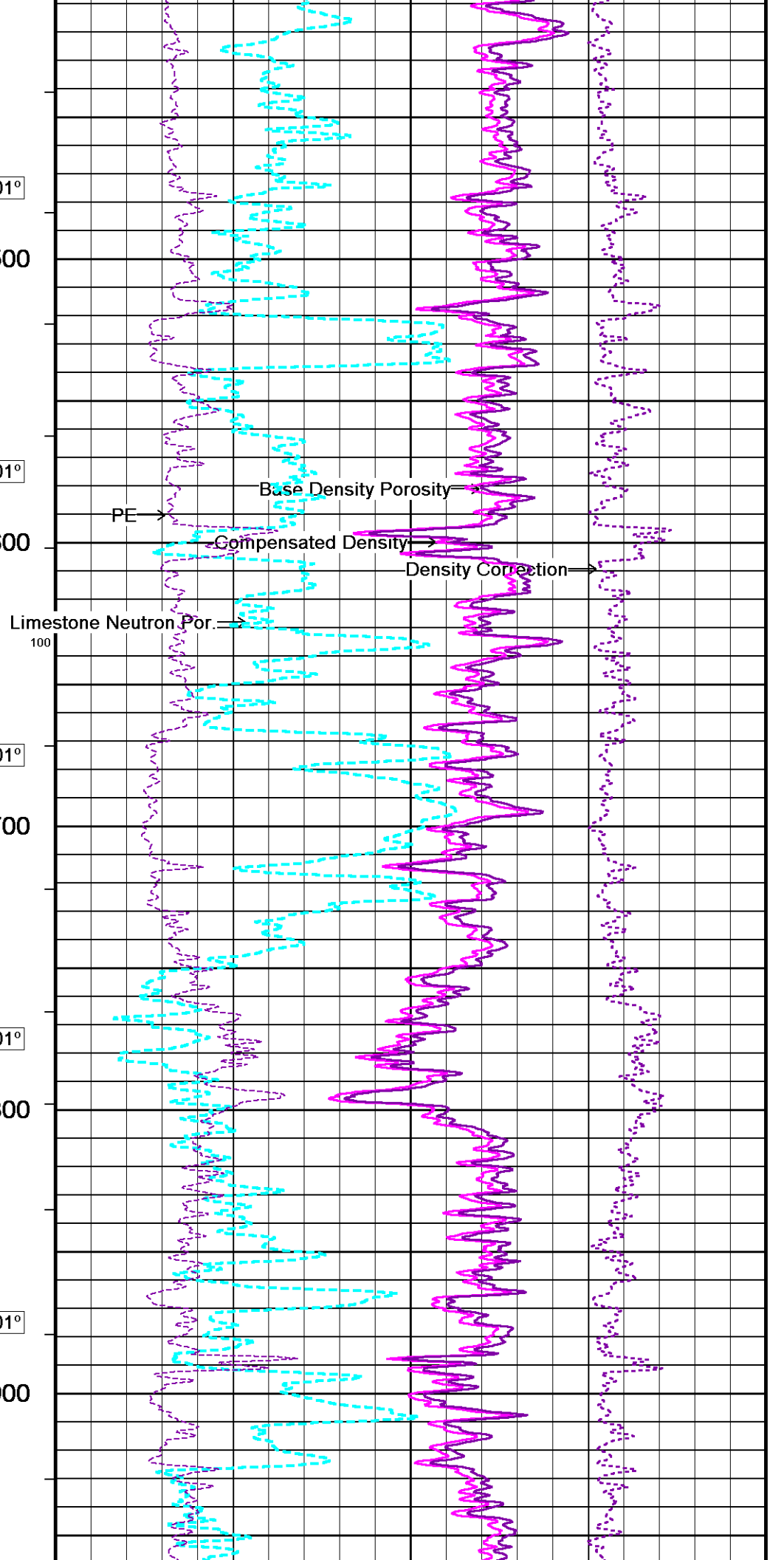
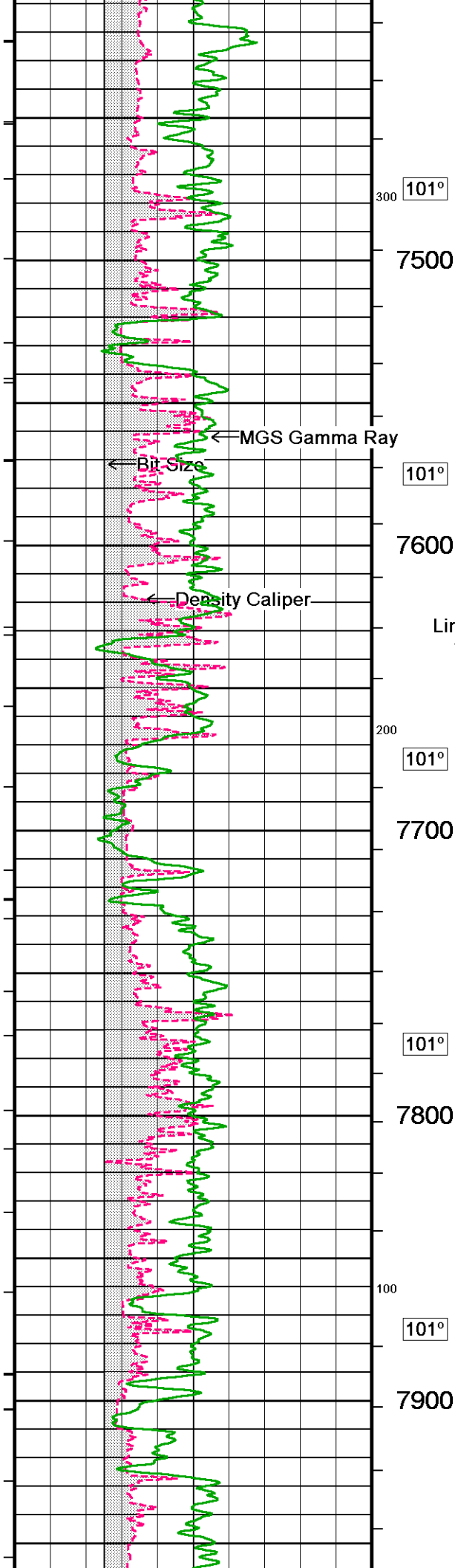
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

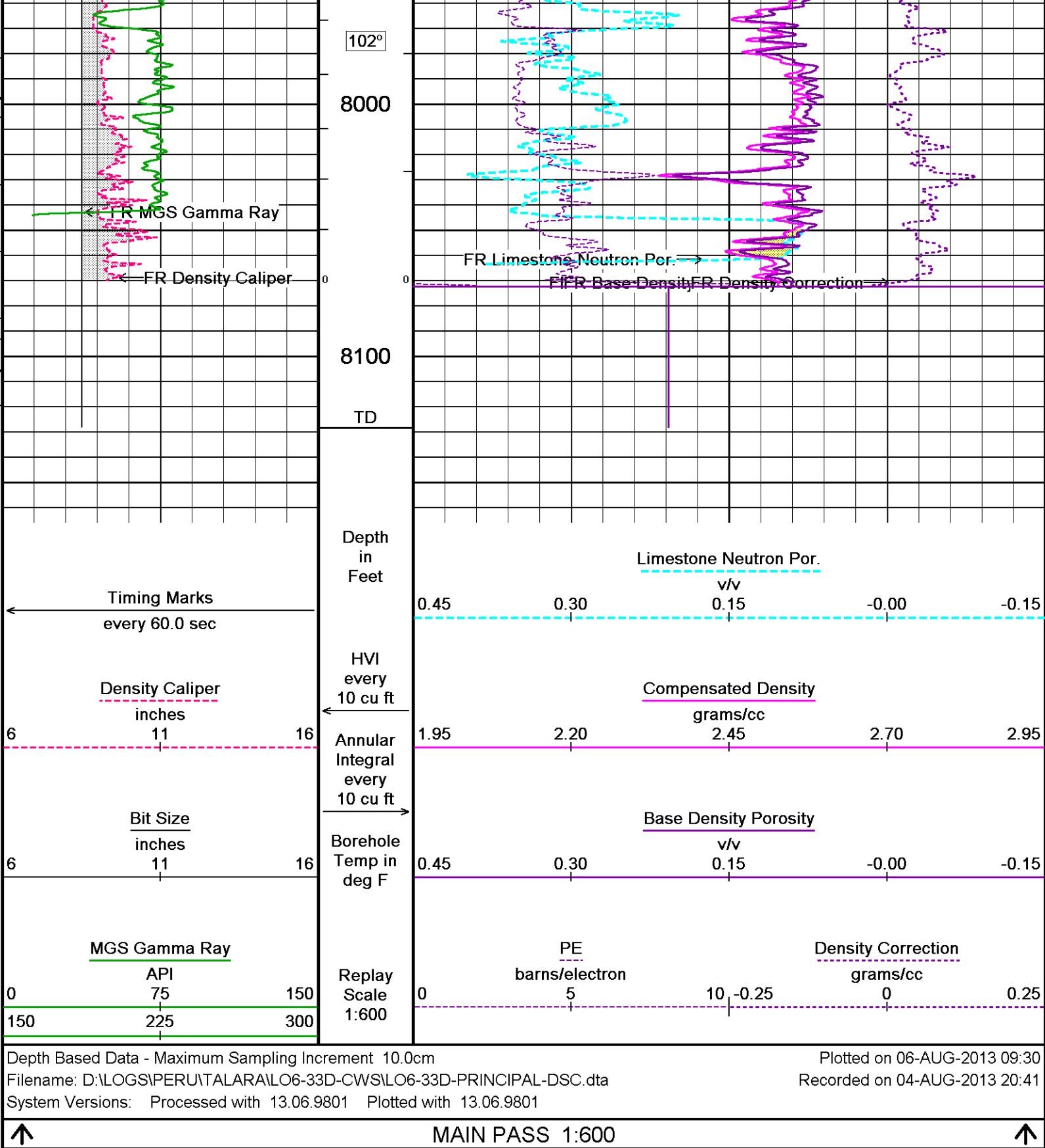












COMPANY	SAVIA PERU S.A				
WELL	LO6-33D				
FIELD	LOBITOS OFFSHORE				
PROVINCE/COUNTY	PIURA				
COUNTRY/STATE	PERU				
Elevation Kelly Bushing	385.00	feet	First Reading	8071.73	feet
Elevation Drill Floor	385.00	feet	Depth Driller	8150.00	feet

Elevation Driller	383.00	feet	Depth Driller	8130.00	feet
Elevation Ground Level	335.00	feet	Depth Logger	8128.25	feet


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