



Weatherford

**RESISTIVITY LOG
MGS-MDL**

SCALE 2":100 LINEAL

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 m

Latitude
Longitude

Other Services
MDN
MPD

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 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

Witnessed By DENNIS PAZ

E. ROLDAN

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 inches	Depth From feet	Shoe Depth feet	Weight 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

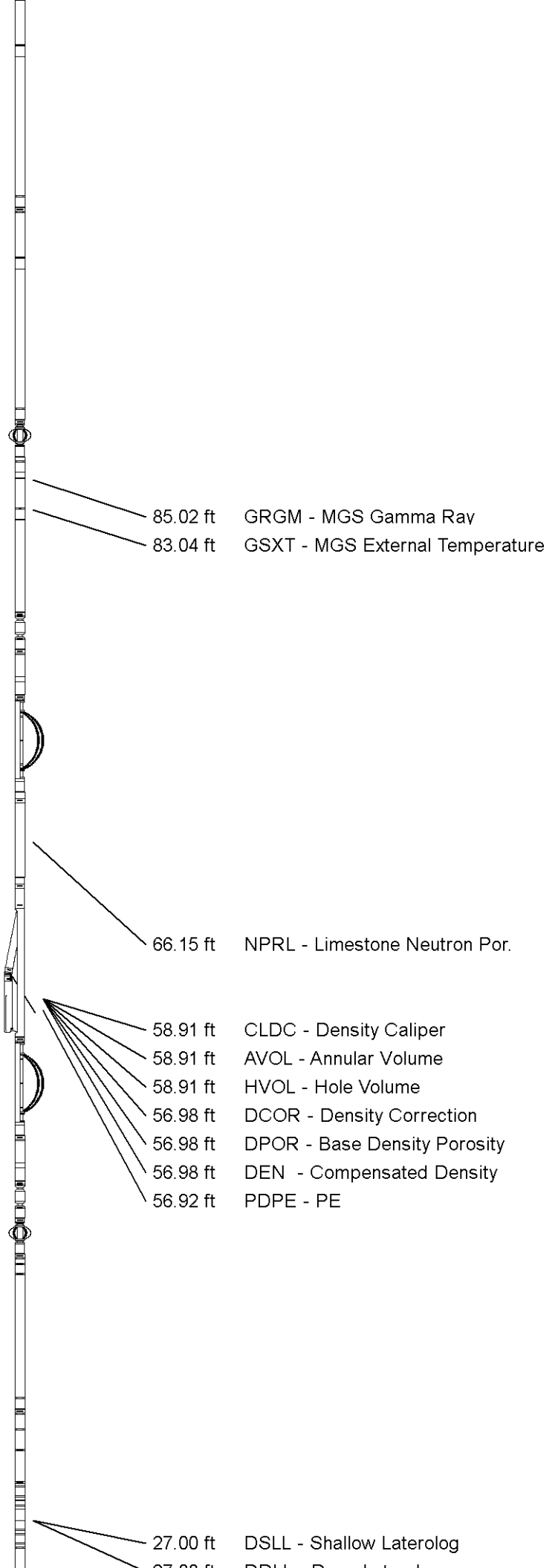
SHA-J.B Compact Swivel Head Adaptor
SHA-J.B 486 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

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

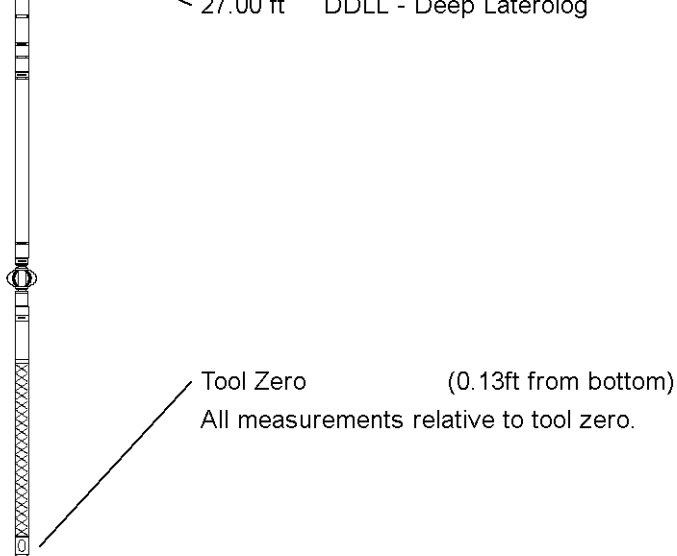


Compact Lower Guard Sub.
MLG-B.B 257 LG: 8.00 ft WT: 55.1 lb OD: 2.24 in

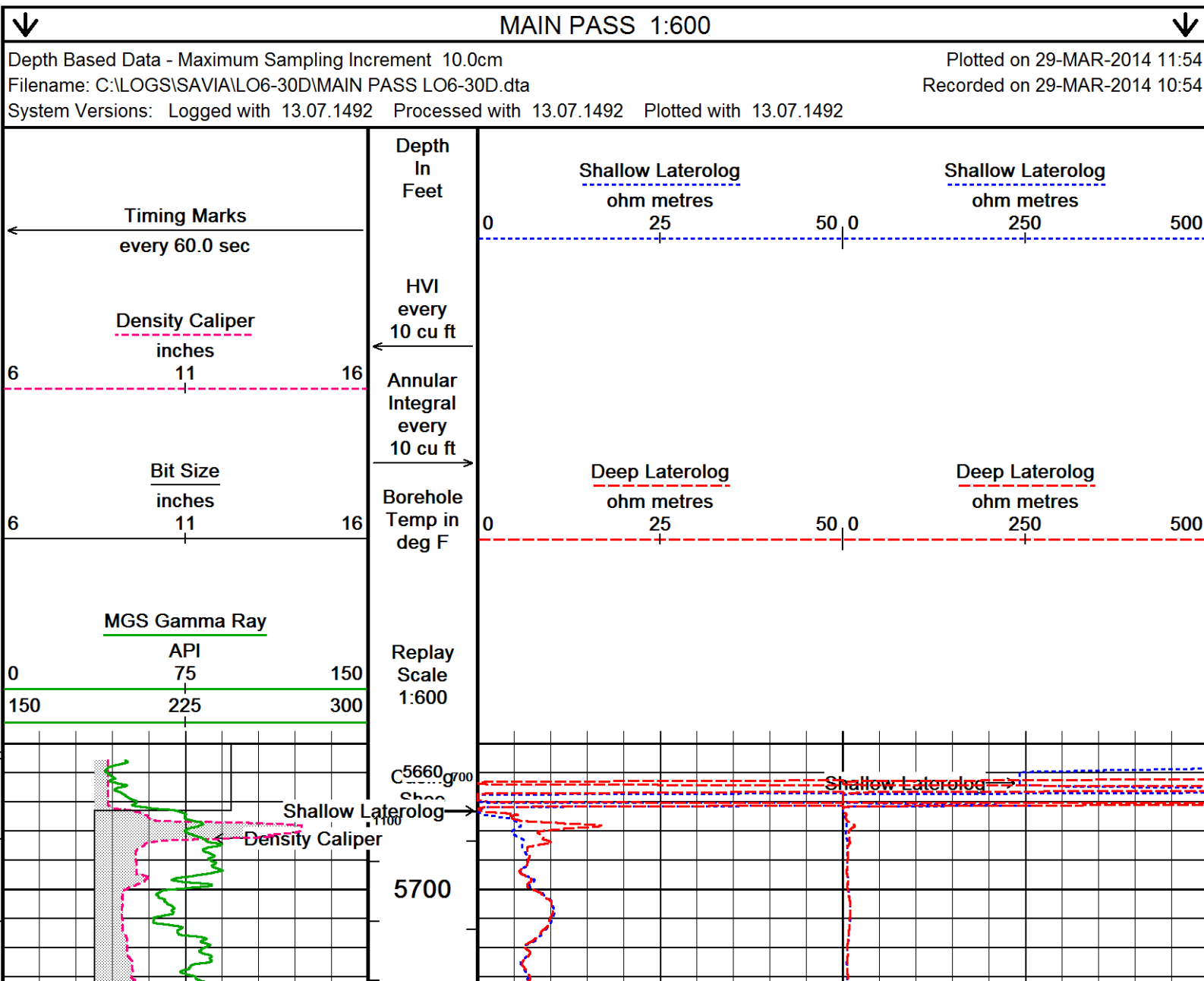
MIS-E.A Compact Inline Standoff sub
MIS-E.A 152 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

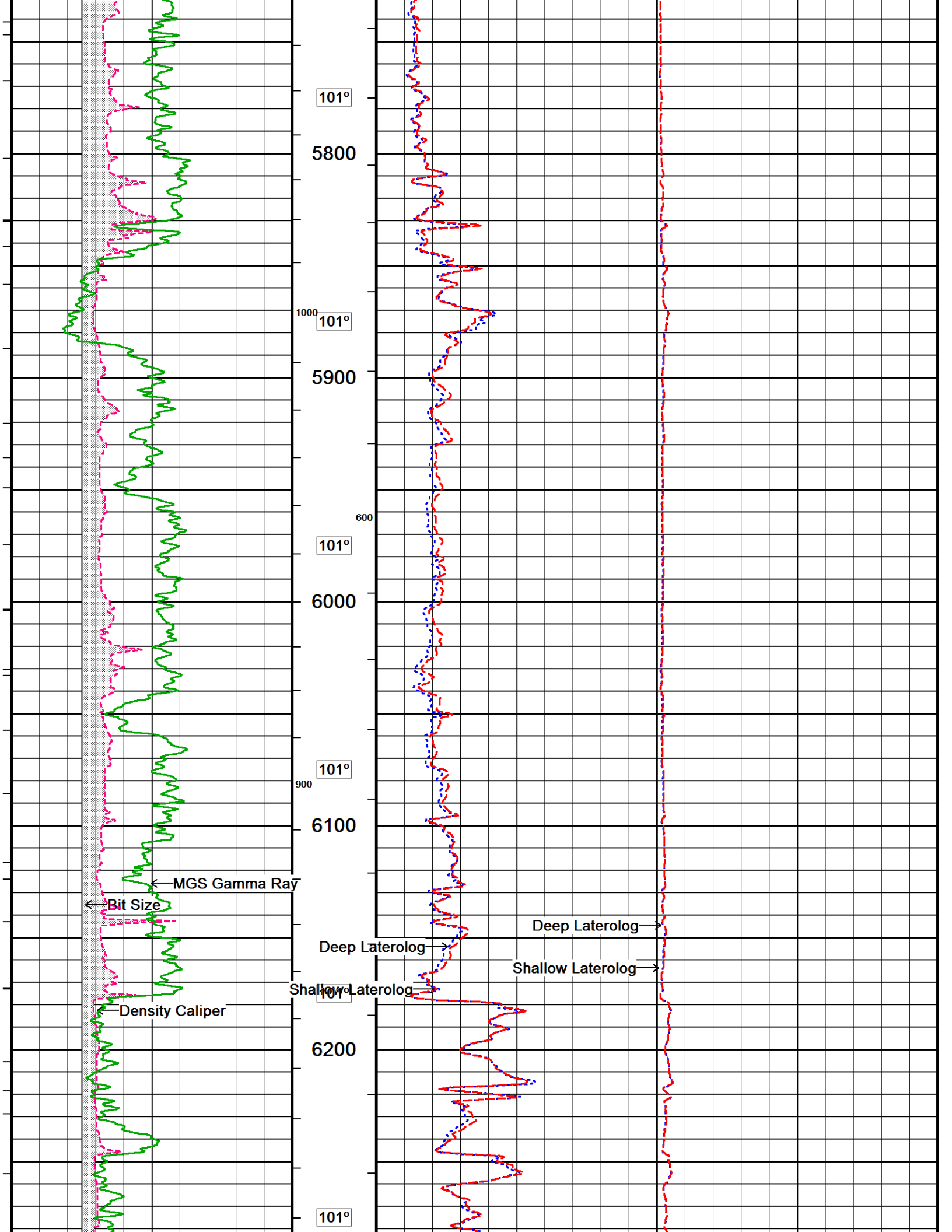
Compact Induction
MAI-B.A 223 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

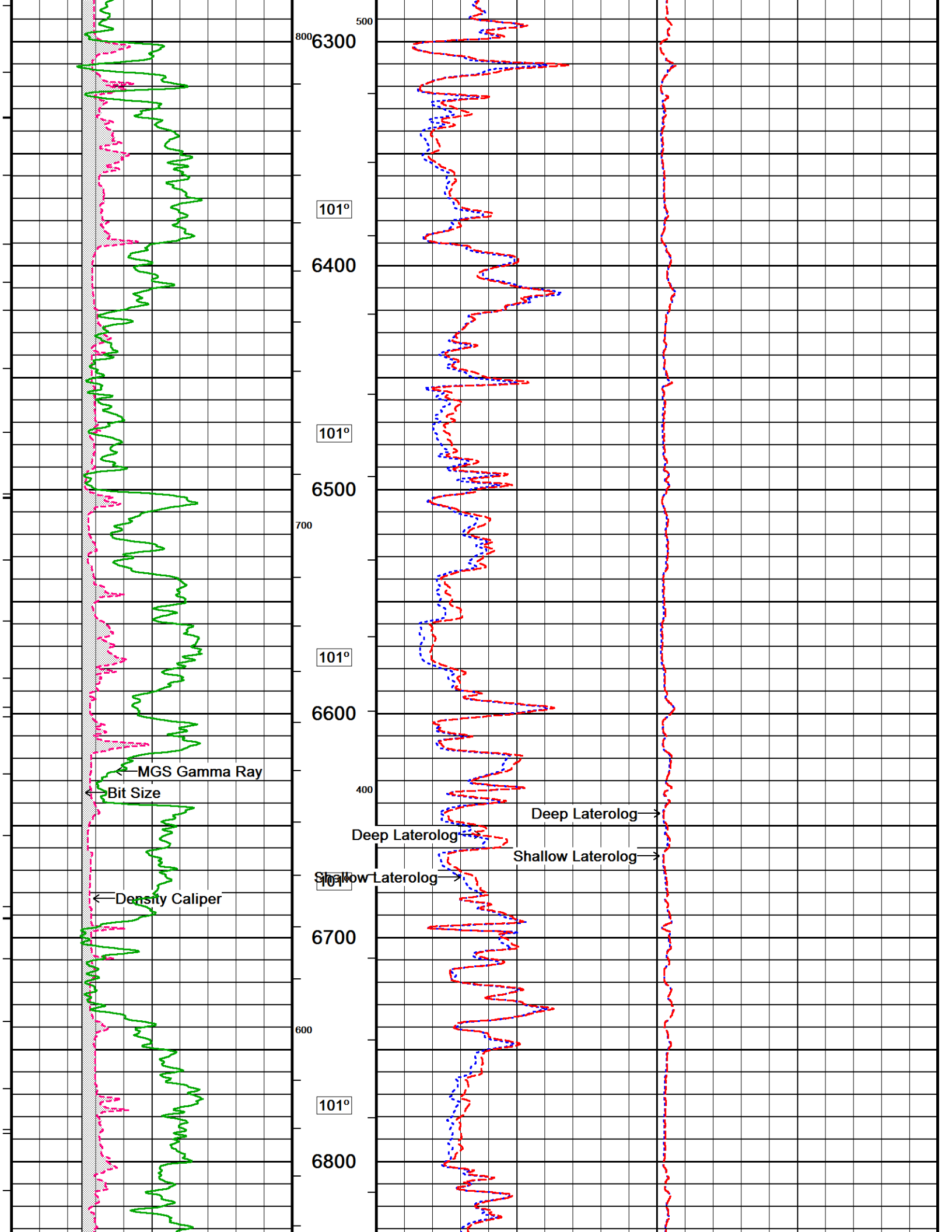
Total Length: 151.66 ft Weight: 1078.1 lb

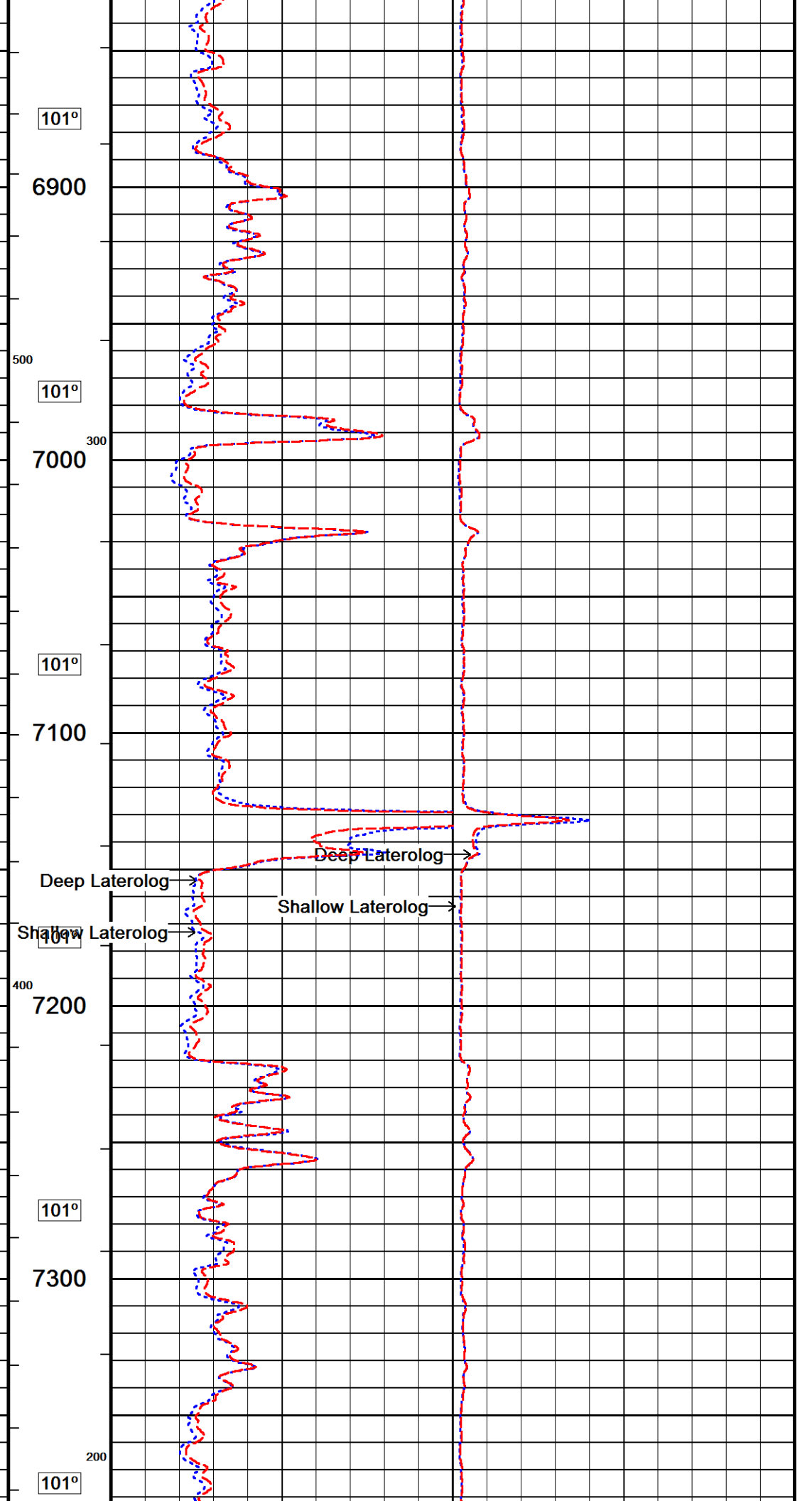
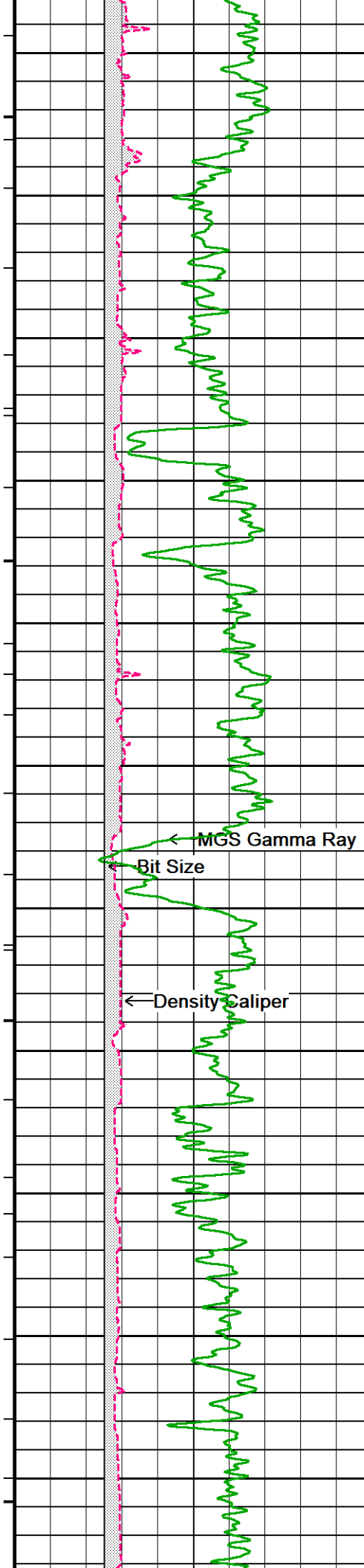


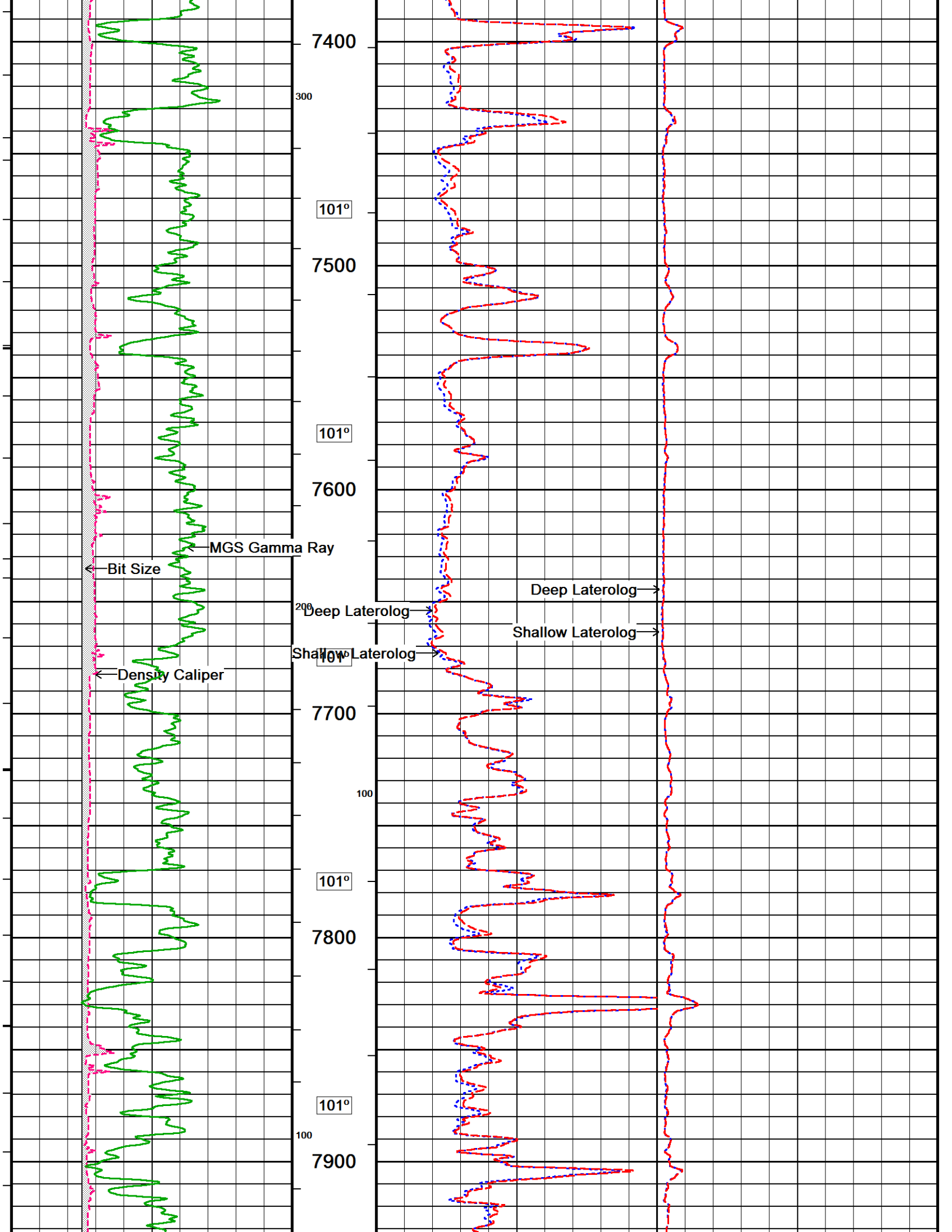
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

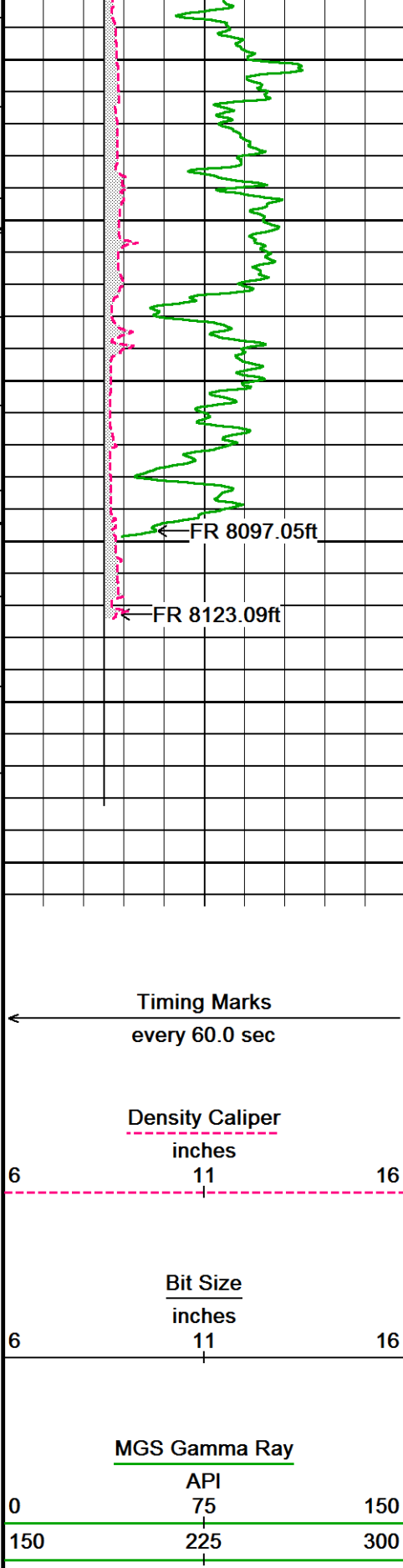












101°

8000

102°

8100

0

IFR 8154.94ft →

FR 8154.94ft →

8200

Depth
In
Feet

HVI
every
10 cu ft

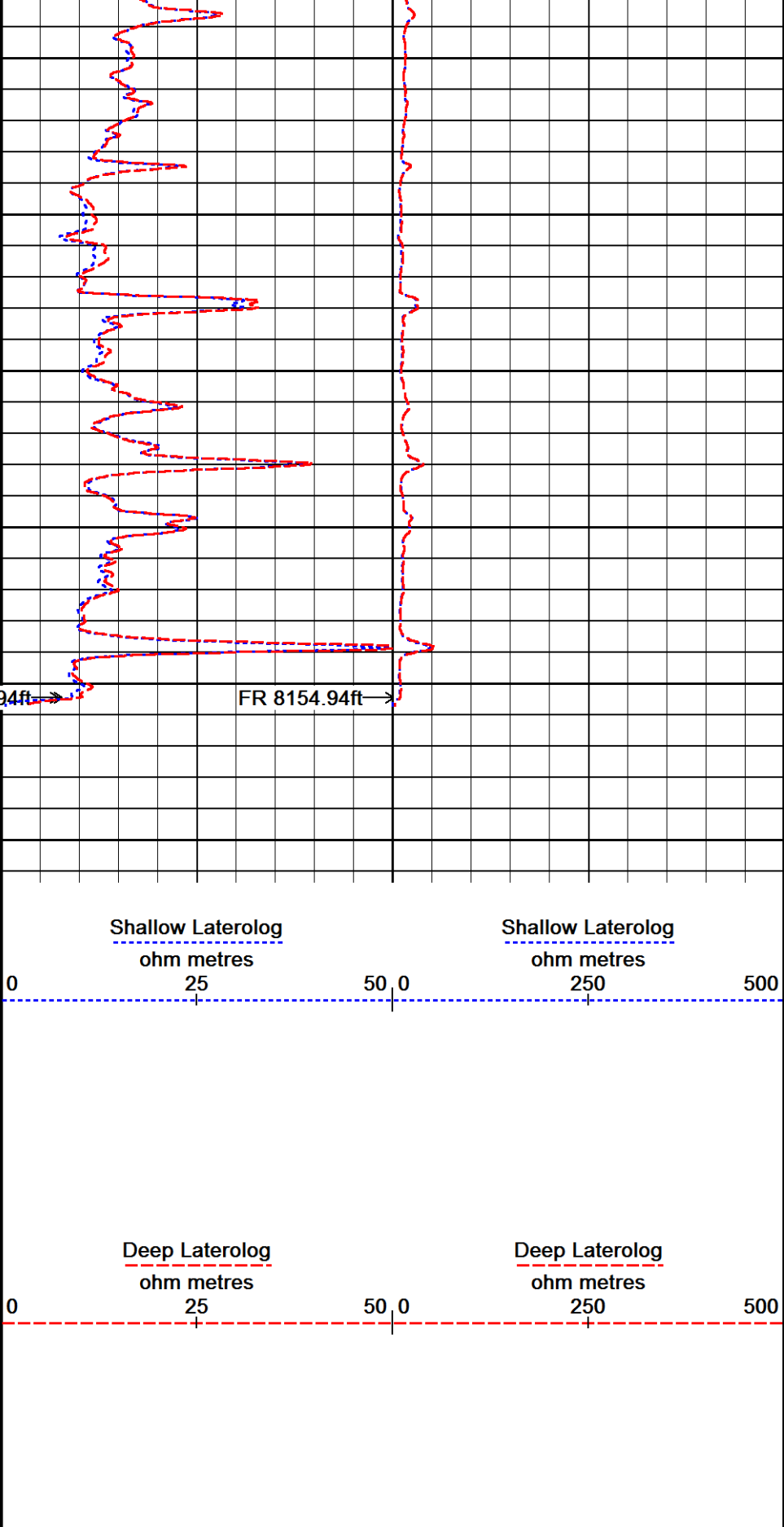
←

Annular
Integral
every
10 cu ft

→

Borehole
Temp in
deg F

Replay
Scale
1:600



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®

RESISTIVITY LOG
MGS-MDL
SCALE 2":100 LINEAL