



Weatherford

COMBINED LOG
MDL-MGS-MDN-MPD
SCALE 2":100

COMPANY

SAVIA PERU S.A

WELL

LO16-31D

FIELD

LOBITOS, LOTE 22B

PROVINCE/COUNTY

PIURA

COUNTRY/STATE

PERU

LOCATION

N: 9°50'5.993.110 m
E: 459,448.910 m

Latitude
Longitude

Other Services

Permanent Datum SEA LVL, Elevation -309 feet

Log Measured From DF

Drilling Measured From DF

Elevations:
KB 359.00
DF 359.00
GL 0.00

Date 19-MAY-2014

Run Number 1

Service Order 910

Depth Driller 10662.00 feet

Depth Logger 10639.12 feet

First Reading 10611.37 feet

Last Reading 8862.00 feet

Casing Driller 8865.00 feet

Casing Logger 8862.00 feet

Bit Size 6.125 inches

Hole Fluid Type WBM

Density / Viscosity 11.80 lb/USg 26.00 CP

PH / Fluid Loss 9.80 4.80 cc/30min

Sample Source ACTIVE PIT

Rm @ Measured Temp 0.20 @ 70.0 ohm-m

Rmf @ Measured Temp 0.19 @ 70.0 ohm-m

Rmc @ Measured Temp 0.24 @ 70.0 ohm-m

Source Rmf / Rmc PRESS FILTER

Rm @ BHT 0.10 @128.0 ohm-m

Time Since Circulation 16:00 18-MAY

Max Recorded Temp 128.00 deg F

Equipment / Base 2 TALARA

Recorded By J. GUERRERO

Witnessed By J. CORONADO

REMARKS

- Objective: To obtain accurate open hole Gamma Ray, Neutron, Caliper, Resistivity Log (Dual Laterolog) in Compact Well Shuttle - Messenger Conveyance.
- Maximum recorded temperature 128 degF recorded.
- Fluid resistivity measurements during logging operation: Rmf= 0.19 @ 75deg F, Rm=0.20 @ 75Deg F, Rmc=0.24 @ 75degF.
- This is a deviated well with a maximum deviation of 46.13 degrees @ 7461.63 ft MD.
- Well sketch per driller's depth.
- Bottom not tagged due to nature of the conveyance. Maximum depth recorded in Log header (10639.12 ft MD) is the maximum depth reached by the induction tool in the run.
- Logging speed below 30 ft/min (following operational procedure).
- Main Section from 10639.12 ft MD to 8862.0 ft MD, as requested.
- No Repeat Section performed due to deployment method used in the job.
- 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: 2.71 g/cc
- Calculated Volumes and caliper averages from 10639.12 ft MD to xx ft MD, for a future 5.0 O.D casing:
Hole Volume= 440 FT 3
Annular Volume = 205 FT 3
Caliper Average = 6.83 in.
- Flow test were done at the following depths: 300ft, 2497ft, 5063ft ,7000ft, 8807ft, 10000ft, 10502ft.

Crew at your service
L. Macedo, J. Escobar, L. Aguilar, J. Guerrero

BOREHOLE RECORD

Last Edited: 20-MAY-2014 00:47

Bit Size
inches

Depth From
feet

Depth To
feet

17.000

0.00

2115.00

12.250

2115.00

5556.00

12.250	2115.00	5556.00
8.500	5556.00	8865.00
6.125	8865.00	10662.00

CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	13.375	0.00	2113.00	54.50
CASING	9.625	0.00	5556.00	40.00
CASING	7.000	0.00	8865.00	26.00

WELL DIAGRAM

13.38 in Casing: 0.00 ft

9.63 in Casing: 0.00 ft

17.00 in Bit size: 0.00 - 2115.00 ft

7.00 in Casing: 0.00 ft

13.38 in Casing shoe: 2113.00 ft

12.25 in Bit size: 2115.00 - 5556.00 ft

8.50 in Bit size: 5556.00 - 8865.00 ft

6.12 in Bit size: 8865.00 - 10662.00 ft

9.63 in Casing shoe: 5556.00 ft

7.00 in Casing shoe: 8865.00 ft

Total bit depth: 10662.00 ft

Temperature: 128.00 Degrees F

DOWNHOLE EQUIPMENT

C:\LOGS\TALARA\LO16-31D\lo16-31d-FINAL-strech.t.dta

Shuttle Running Tool 3.5" (SRT A)

SRT-A 103 LG: 6.47 ft WT: 37.5 lb OD: 2.520 in

MBS-F.A 200v Compact Battery Sub

MBS-F.A 71 LG: 17.06 ft WT: 123.5 lb OD: 2.240 in

Compact Memory Sub E.B

MMS-E.B 148 LG: 5.20 ft WT: 37.5 lb OD: 2.244 in

MIS-E.B Compact Inline Standoff sub

MIS-E.B 496 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Stiff Bridle Electrode Sub.
MBE-C.B 261 LG: 12.33 ft WT: 77.2 lb OD: 2.283 in

Compact Stiff Bridle Electrode Sub.
MBE-C.B 262 LG: 12.33 ft WT: 77.2 lb OD: 2.283 in

Compact Stiff Bridle Electrode Sub.
MBE-A.A 56 LG: 12.33 ft WT: 77.2 lb OD: 2.240 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 497 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Short Gamma
MGS-C.A 43 LG: 3.41 ft WT: 24.3 lb OD: 2.244 in

Compact Collar Locator
MCL-B.J 57 LG: 3.17 ft WT: 26.5 lb OD: 2.244 in

SKJ-E.A Compact Knuckle Joint
SKJ-E.A 171 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

SHA-J.B Compact Swivel Head Adaptor
SHA-J.B 479 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 755 LG: 5.70 ft WT: 33.1 lb OD: 2.244 in

Compact Neutron
MDN-A.B 175 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

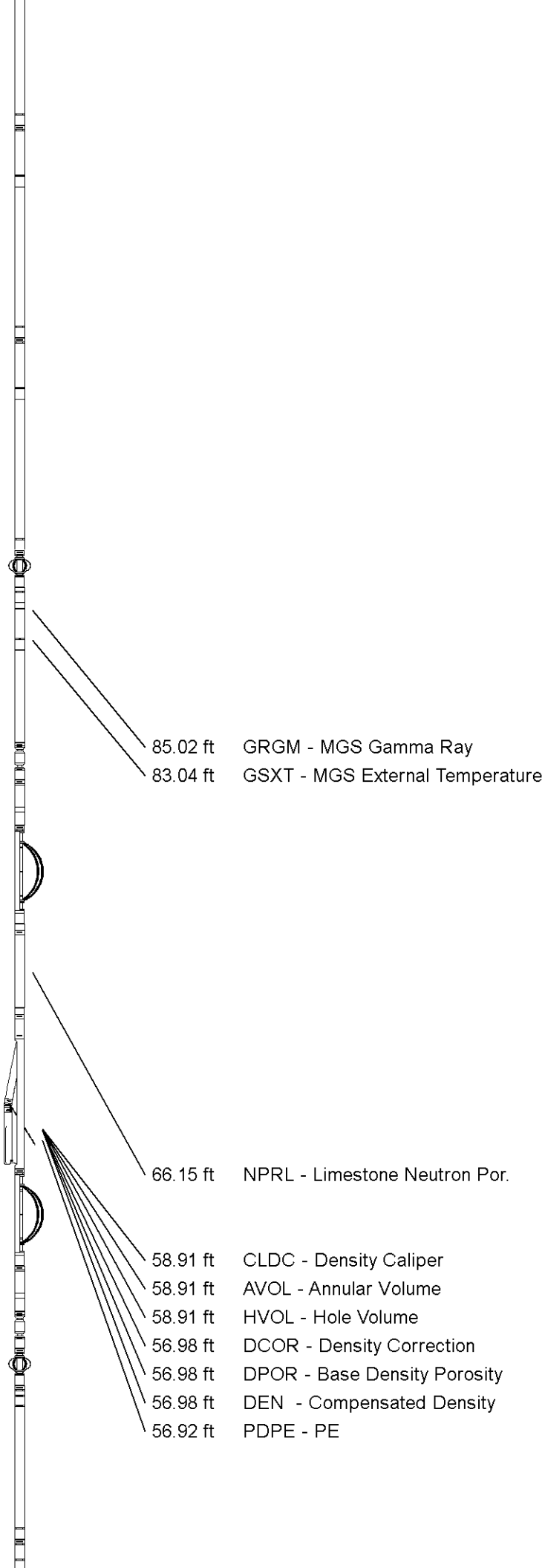
Compact Density/Caliper
MPD-C.A 197 LG: 9.59 ft WT: 90.4 lb OD: 2.244 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 756 LG: 5.70 ft WT: 33.1 lb OD: 2.244 in

SHA-J.B Compact Swivel Head Adaptor
SHA-J.B 486 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 168 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

MIS-B Compact Inline Standoff sub
MIS-B 99 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in



Compact Upper Guard sub
MUG-B.B 260 LG: 8.98 ft WT: 68.3 lb OD: 2.244 in

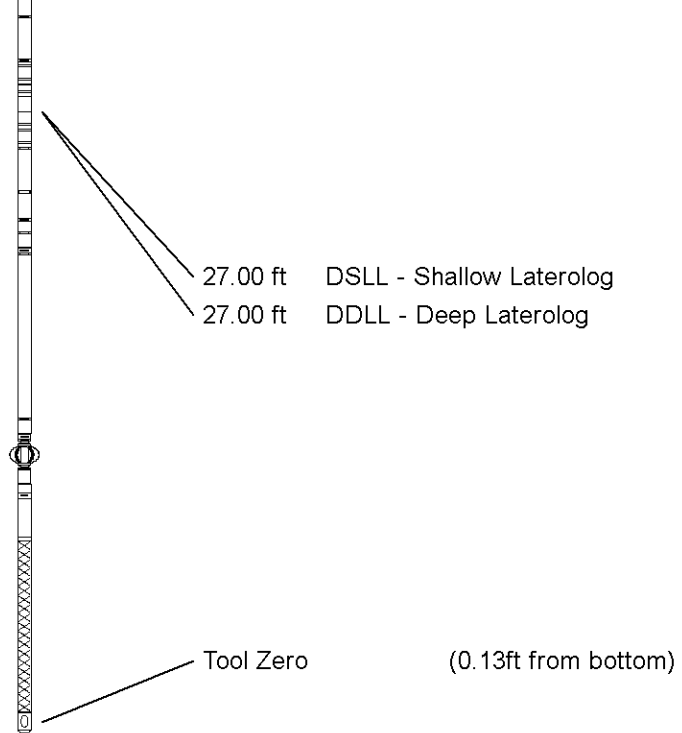
Compact Laterolog Electrode Sub.
MLE-D.A 228 LG: 12.34 ft WT: 92.6 lb OD: 2.244 in

Compact Lower Guard Sub.
MLG-B.B 257 LG: 8.00 ft WT: 55.1 lb OD: 2.244 in

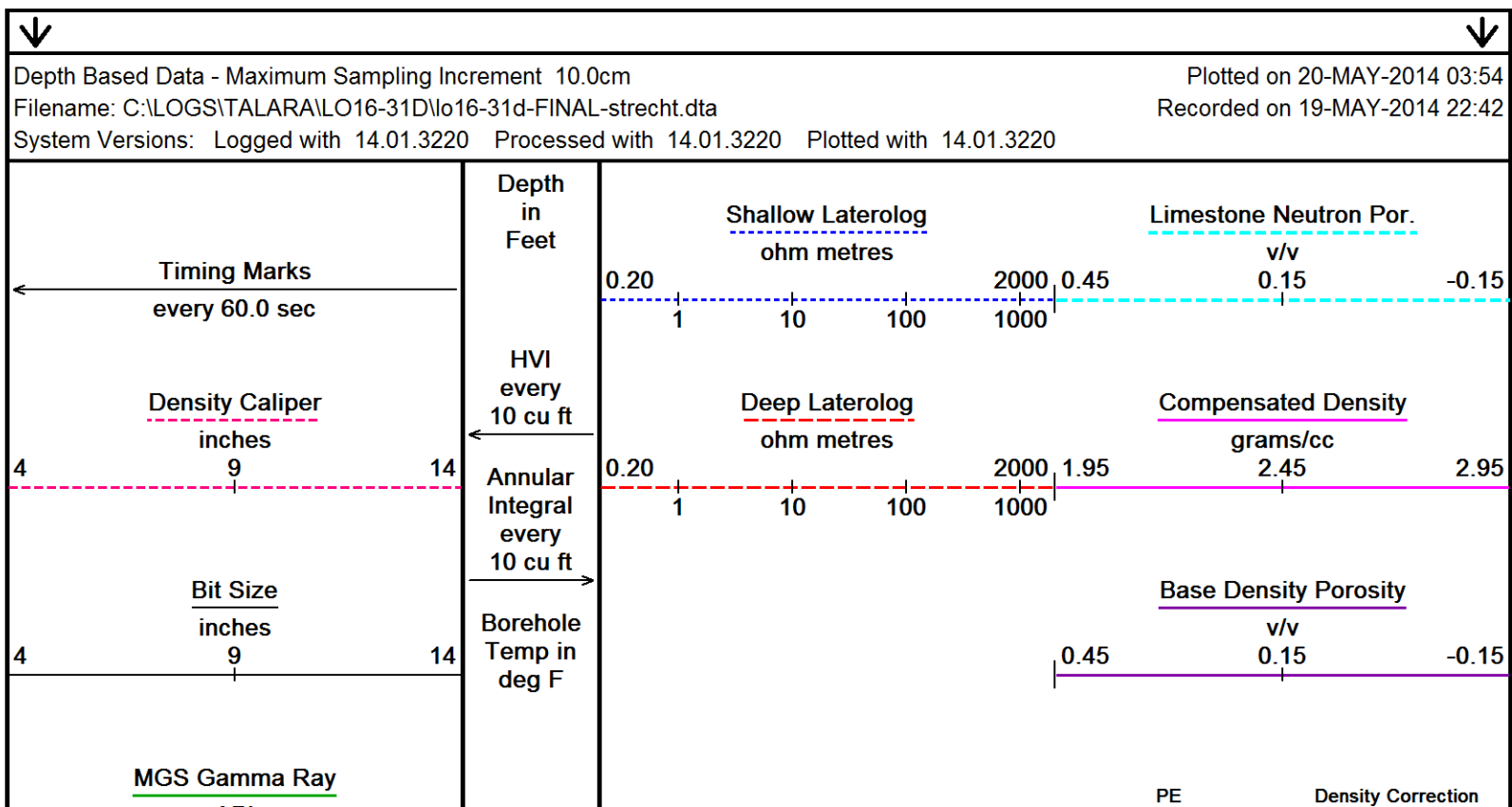
MIS-E.A Compact Inline Standoff sub
MIS-E.A 152 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Induction
MAI-B.A 223 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 155.94 ft Weight: 1106.7 lb



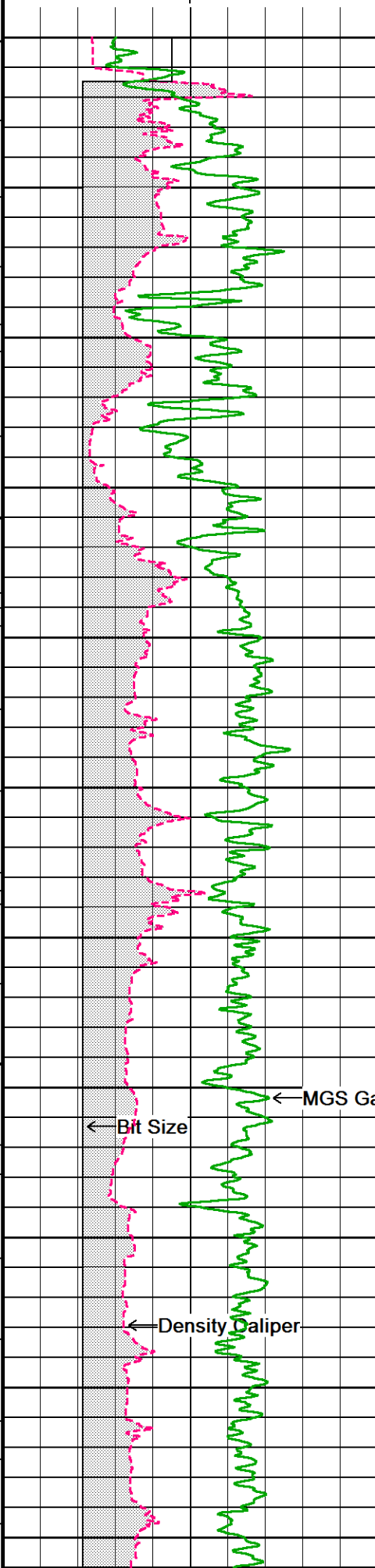
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.



API		
0	75	150
150	225	300

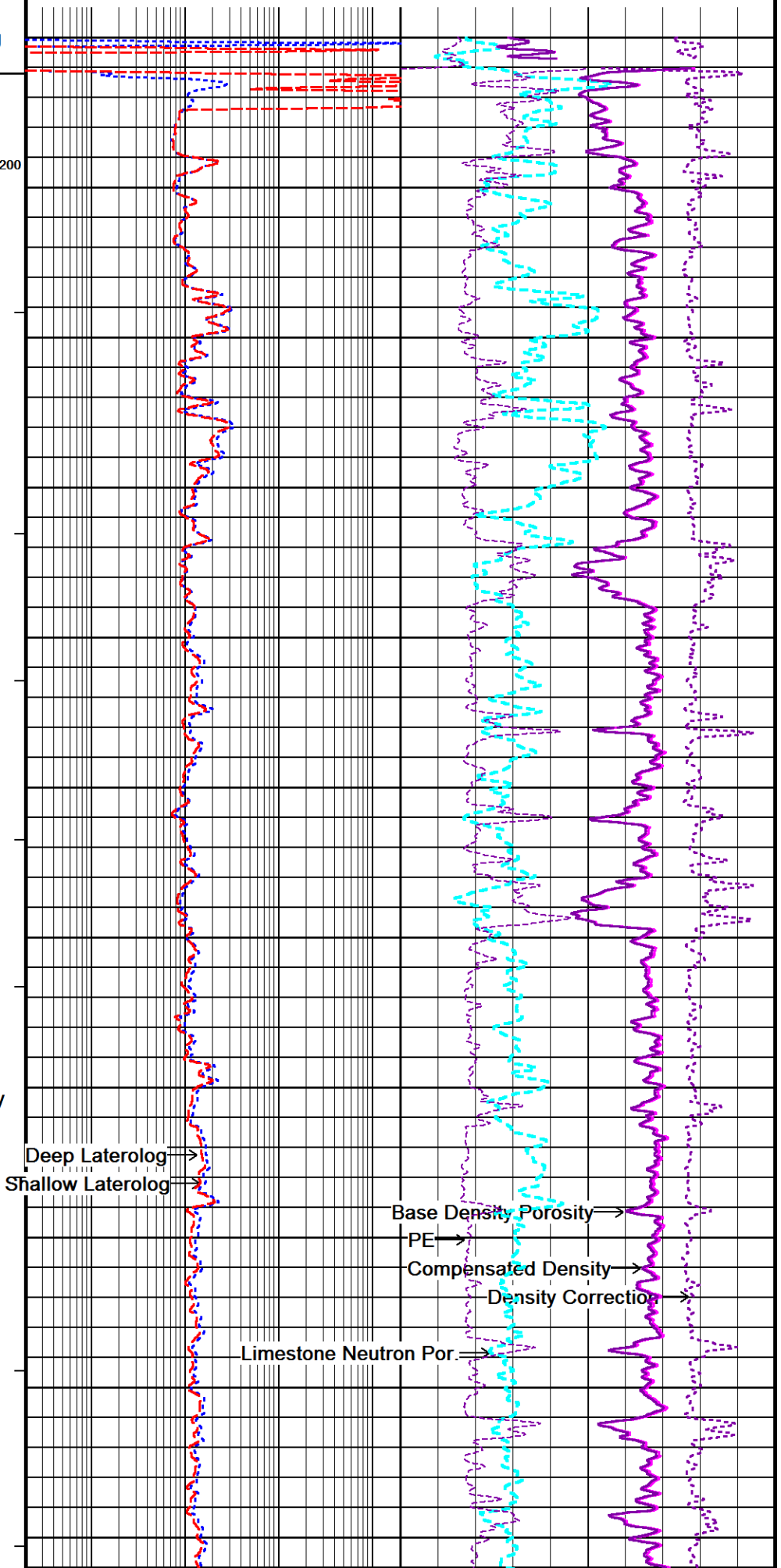
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Scale
1:600

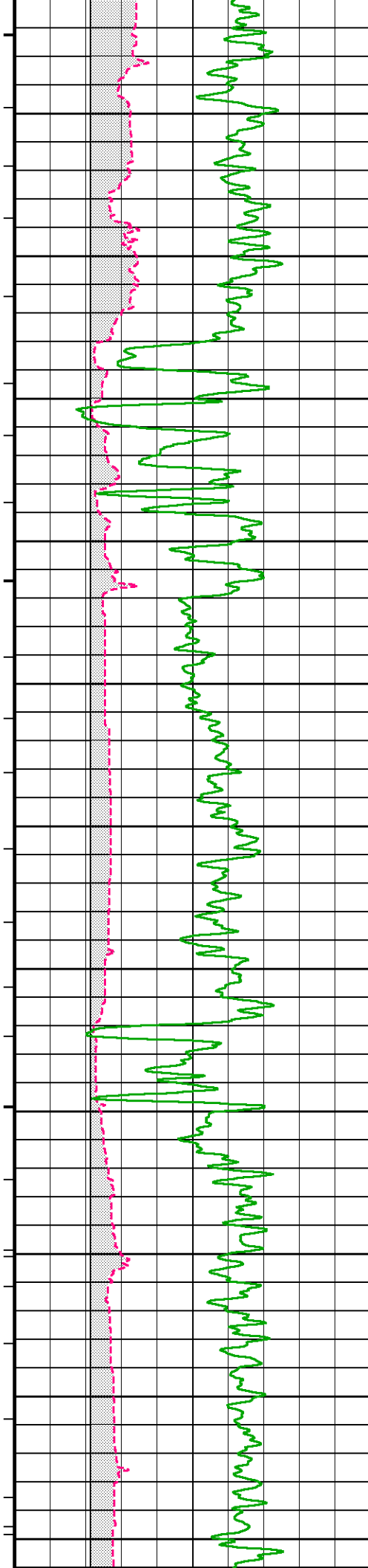
barns/electron		grams/cc	
0	10	-0.25	0.25



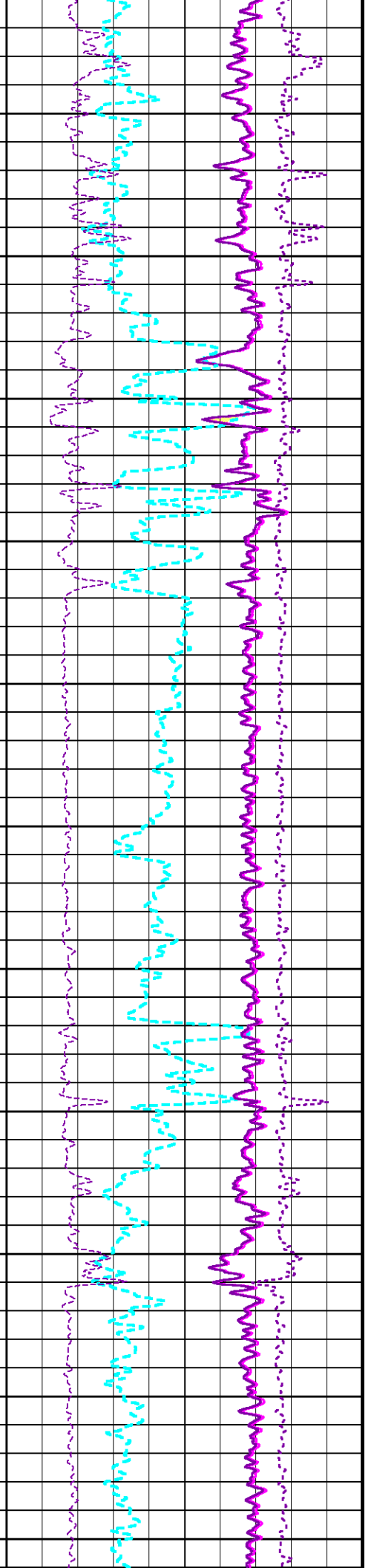
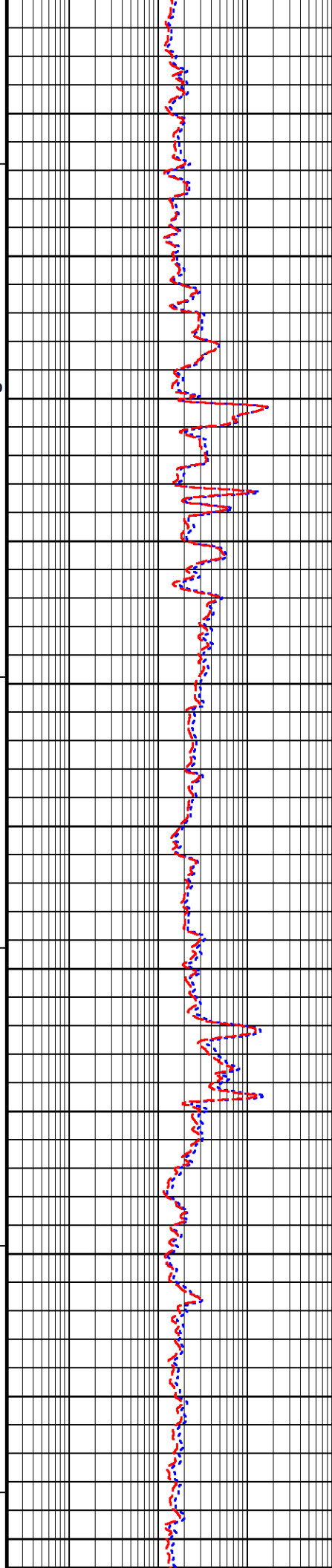
C8850g
Shoe

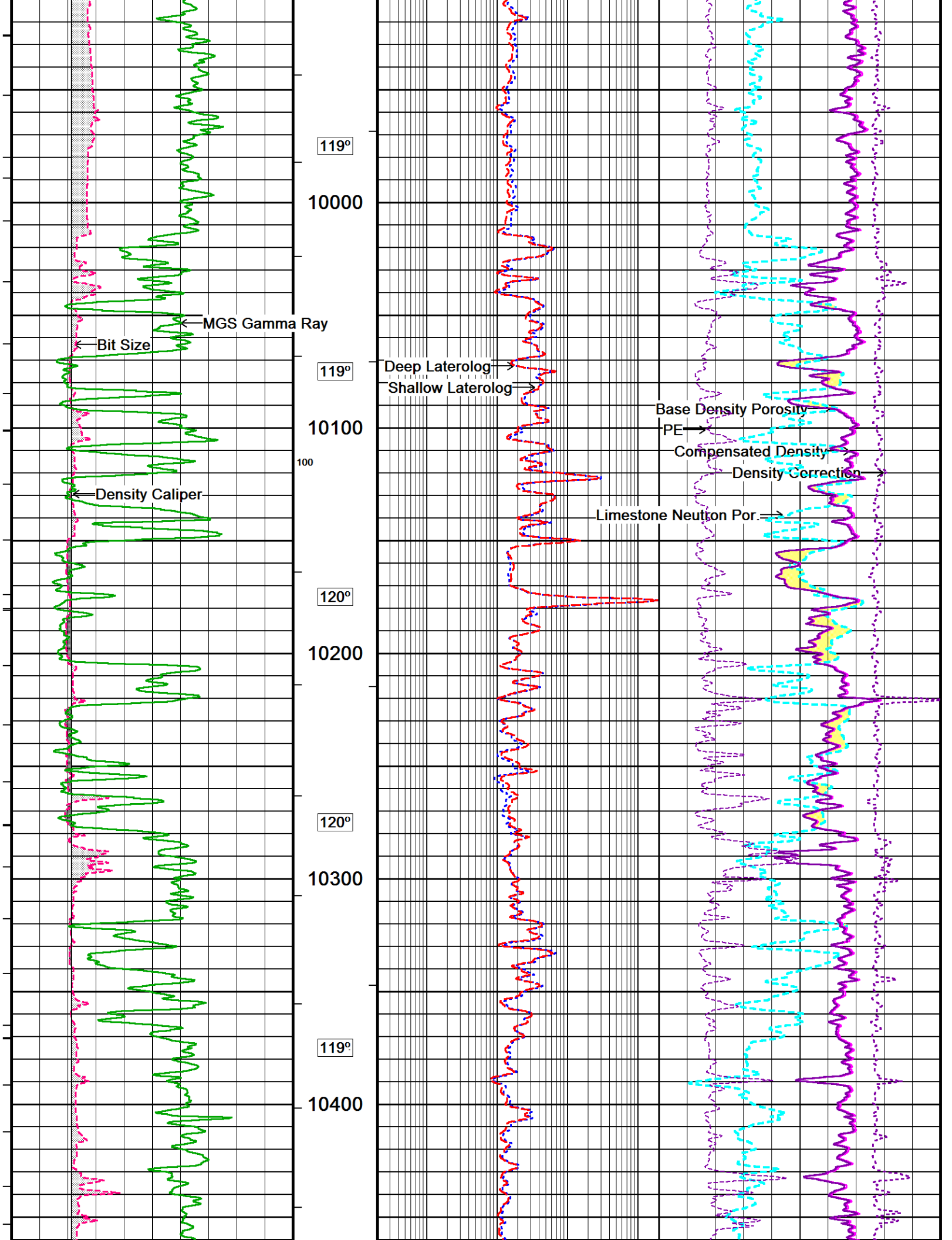
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400
9000
120°
9100
120°
9200
120°
9300
300

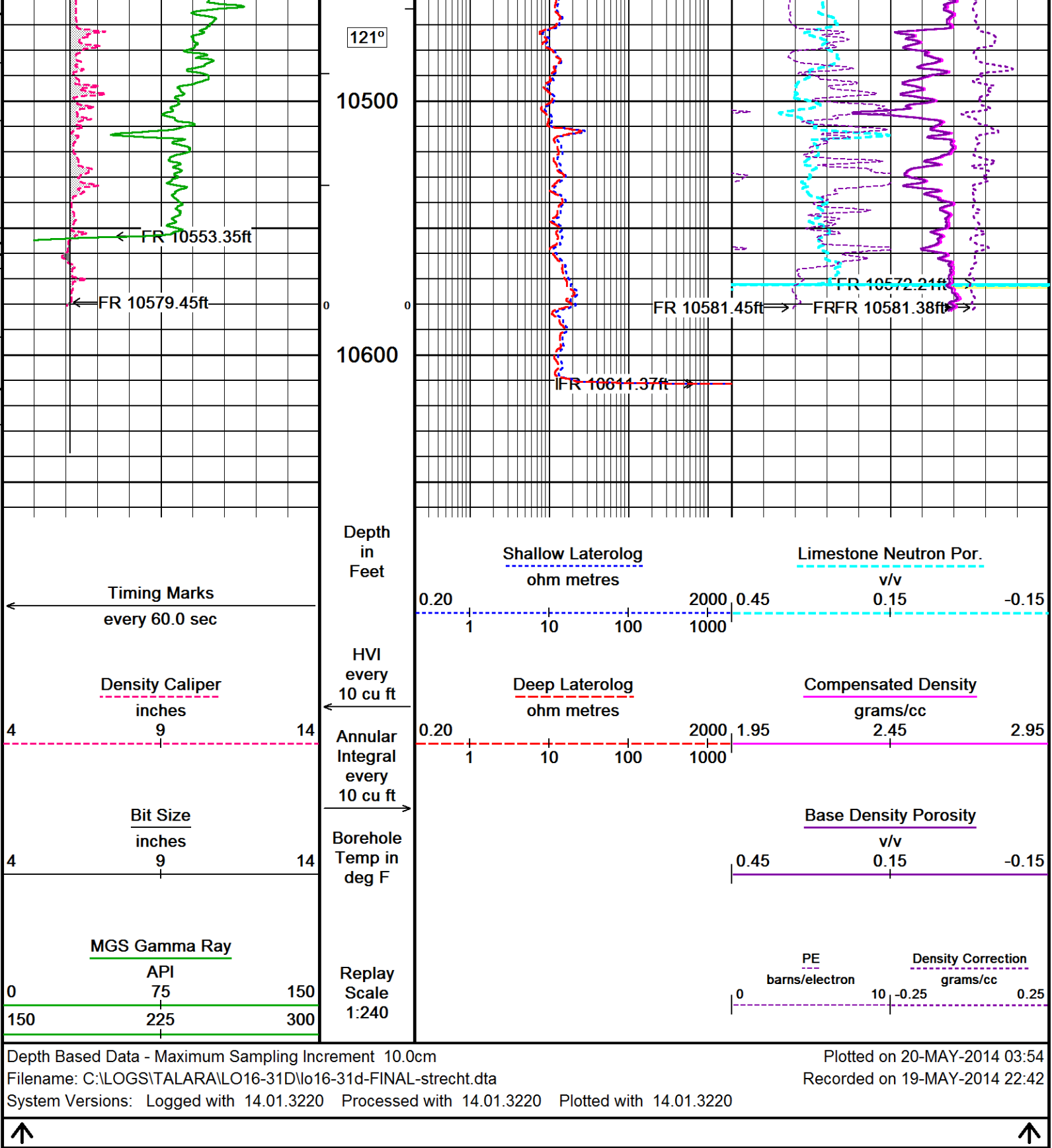




120°
9400
120°
9500¹⁰⁰
120°
9600
120°
9700²⁰⁰
120°
9800
120°
9900







COMPANY	SAVIA PERU S.A		
WELL	LO16-31D		
FIELD	LOBITOS, LOTE Z2B		
PROVINCE/COUNTY	PIURA		
COUNTRY/STATE	PERU		
Elevation Kelly Bushing	359.00	feet	First Reading
Elevation Drill Floor	359.00	feet	10611.37 feet
			Depth Driller
			10662.00 feet

Elevation Ground Level

0.00 feet

Depth Logger

10639.12 feet



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SCALE 2":100