



PRECISION
ENERGY SERVICES

DLL - SLL - MLL - SONIC
DENSITY - NEUTRON

Compact

1:500

COMPANY

ORIGIN ENERGY RESOURCES LIMITED

WELL

CHILDERS COVE 1

FIELD

ONSHORE OTWAY BASIN

PROVINCE/COUNTY

VICTORIA

COUNTRY/STATE

AUSTRALIA

LOCATION

38DEG29'31.96"S 142DEG44'46.66"E **FINAL PRINT**

LSD

SEC

TWP

RGE

Other Services

API Number

Permit Number PEP 154

Permanent Datum GROUND LEVEL, Elevation 46.2 metres

Log Measured From R. T. @ 5.3 METRE above Permanent Datum

Drilling Measured From R. T.

Elevations:
KB 51.50 metres
DF metres
GL 46.20 metres

Date 03-Oct-2005

01-Oct-2005

Run Number

TWO

ONE

Depth Driller

2658.00

metres

Depth Logger

2656.80

metres

First Reading

2656.80

metres

Last Reading

2400.00

metres

Casing Driller

544.50

metres

Casing Logger

544.20

metres

Bit Size

8.50

inches

Hole Fluid Type

KCL/PHPA/POL

KCL/PHPA/POL

Density / Viscosity

1.16 g/cc3

58.00 CP

PH / Fluid Loss

8.00

5.00

Sample Source

FLOWLINE

FLOWLINE

Rm @ Measured Temp

0.18 @ 25.0

ohm-m

Rmf @ Measured Temp

0.20 @ 25.0

ohm-m

Rmc @ Measured Temp

0.13 @ 25.0

ohm-m

Source Rmf / Rmc

PRESS

FILTER

Rm @ BHT

0.07 @ 93.5

ohm-m

Time Since Circulation

11.8 HOURS

18 HOURS

Max Recorded Temp

93.50

deg C

Equipment Name

COMPACT

deg C

Equipment / Base

8

SALE

Recorded By

BEN MOSS

SALE

Witnessed By

JOHN HOBDAV

CIRC. STOP

13:00 3/10

00:00 1/10

BOREHOLE RECORD

Bit Size
inches

8.500

Depth From
metres

544.50

Depth To
metres

2658.00

CASING RECORD

Type

K-55

Size
inches

9.625

Depth From
metres

0.00

Shoe Depth
metres

544.50

Weight
pounds/ft

36.00

REMARKS

- 1) SOFTWARE ISSUE: JUN 17, 2004.
- 2) CUSTOMER SCALES AND INTERVALS LOGGED.
- 3) HFS, MMR, MLE, MUG, MSS, SKJ, MPD,MDN, MCG, MBE RAN IN COMBINATION.
- 4) HARDWARE: MMR: ONE 25.4MM STANDOFF
MSS: TWO 25.4MM STANDOFF
MUG: ONE 25.4MM STANDOFF
MBE: ONE 25.4MM STANDOFF
- 5) SERVICE ORDER: 2071
- 6) RIG:CENTURY 7
- 7) TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 79.7 CU.M.
- 8) TOTAL ANNULAR VOLUME WITH 7 INCH CASING = 27.7 CU.M.
- 9) SONIC CASING SIGNAL AT 500.5 M.

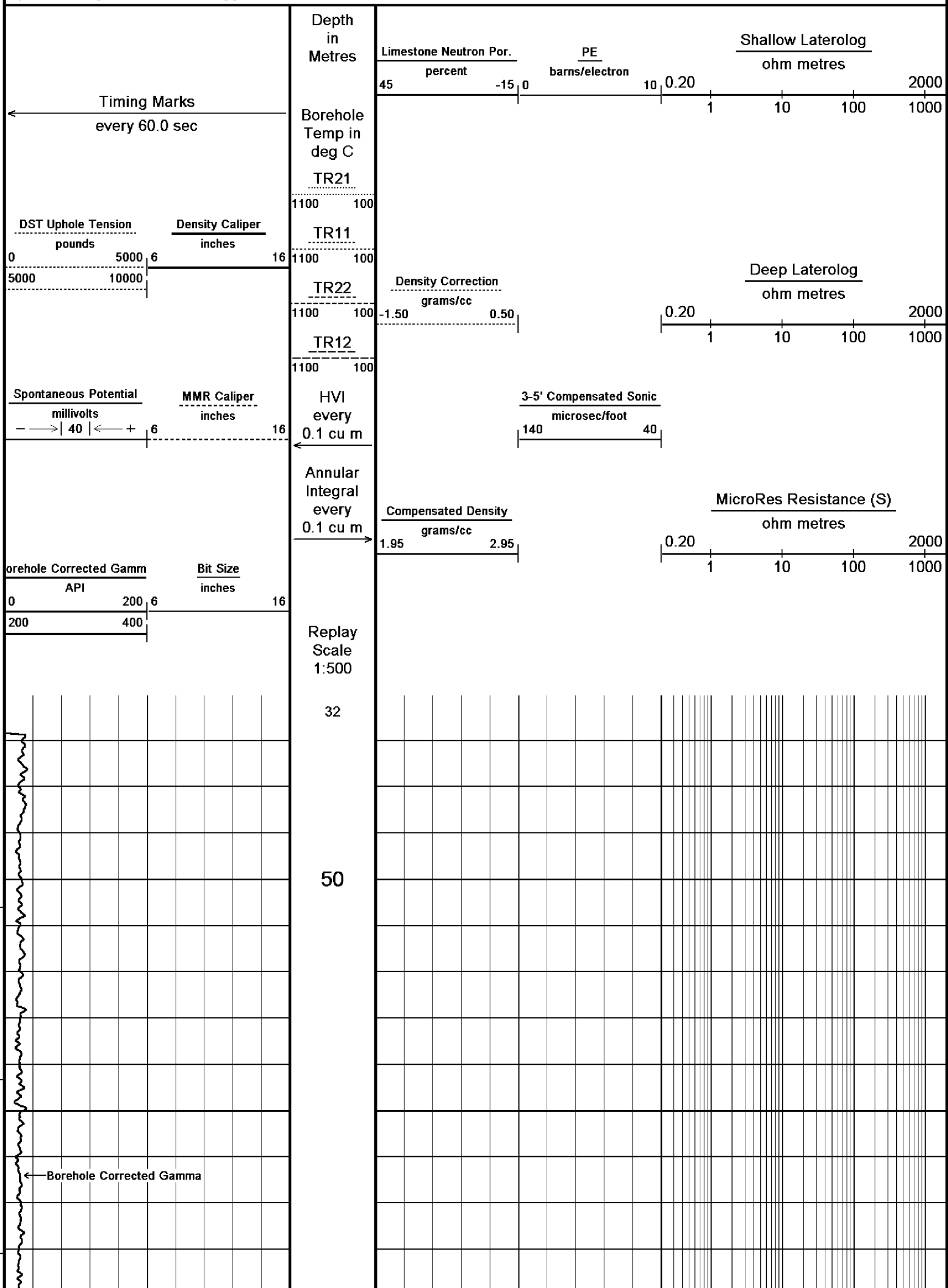
PRINTS: 1 FIELD 3 FINALS

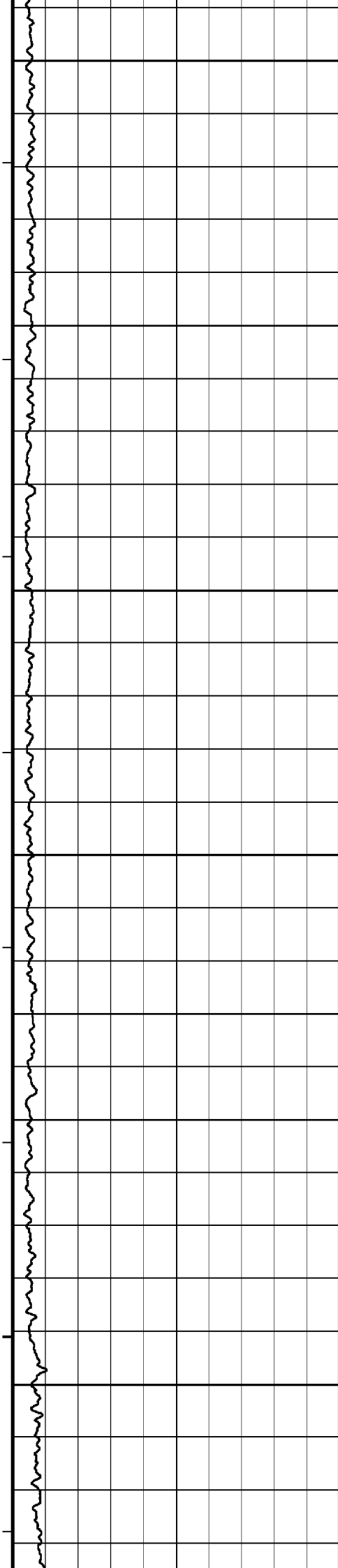
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

Plotted on 03-NOV-2005 15:40

Recorded on 04-OCT-2005 00:45

: Plotted 17-JUN-2004:

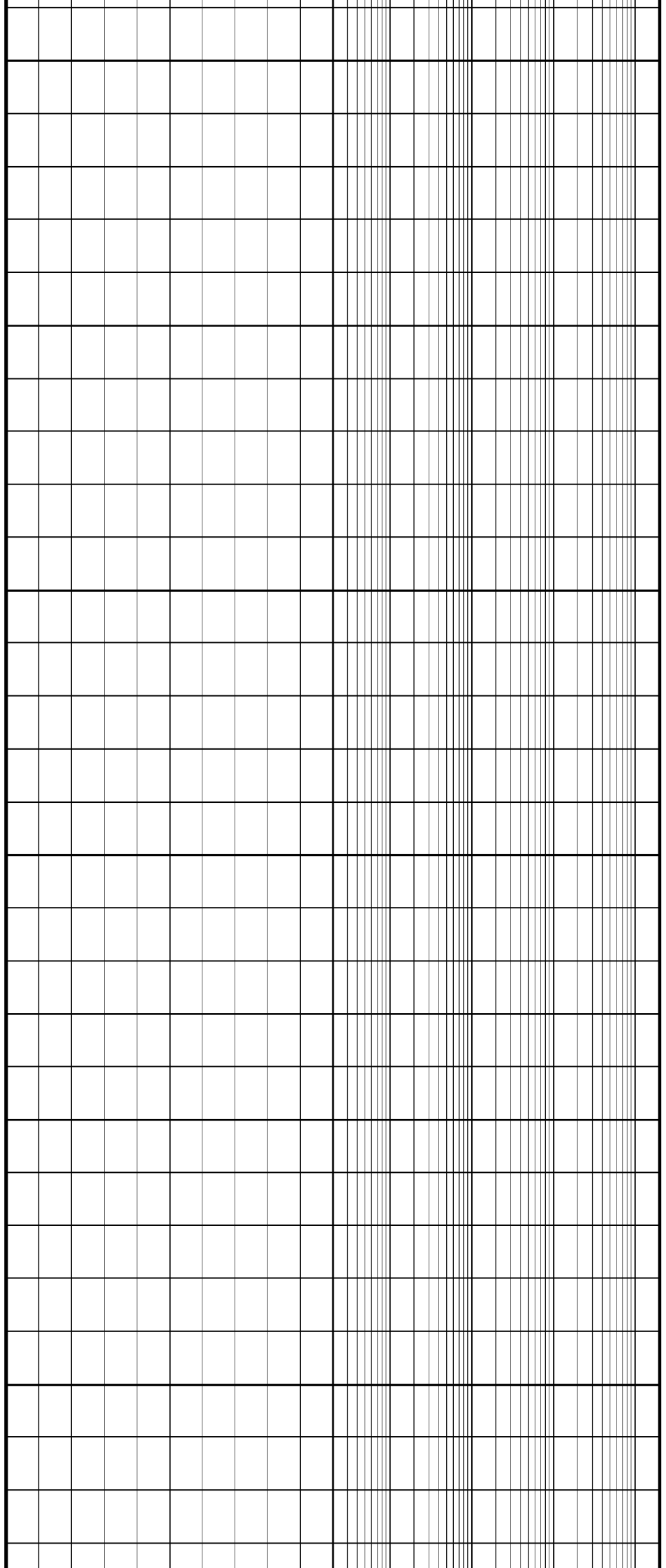


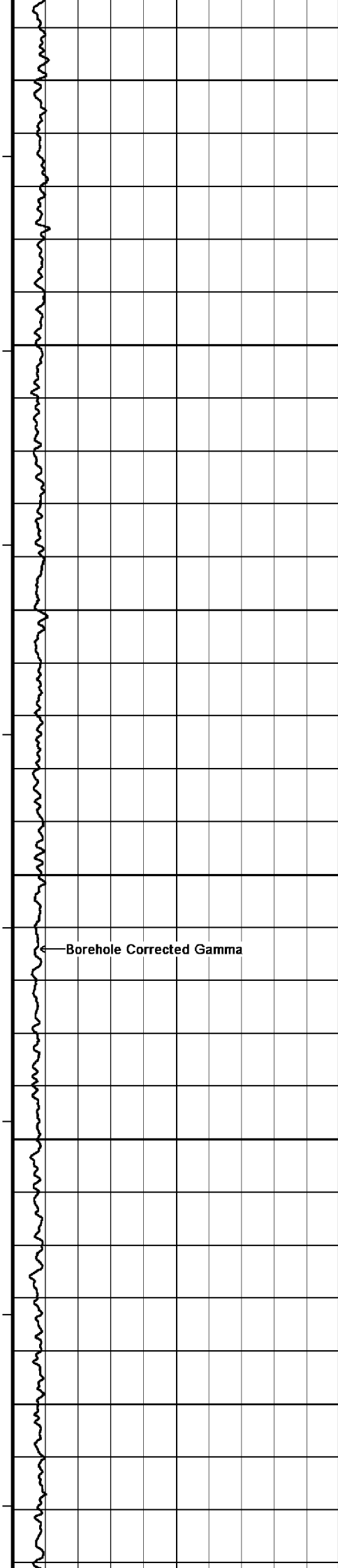


100

150

200

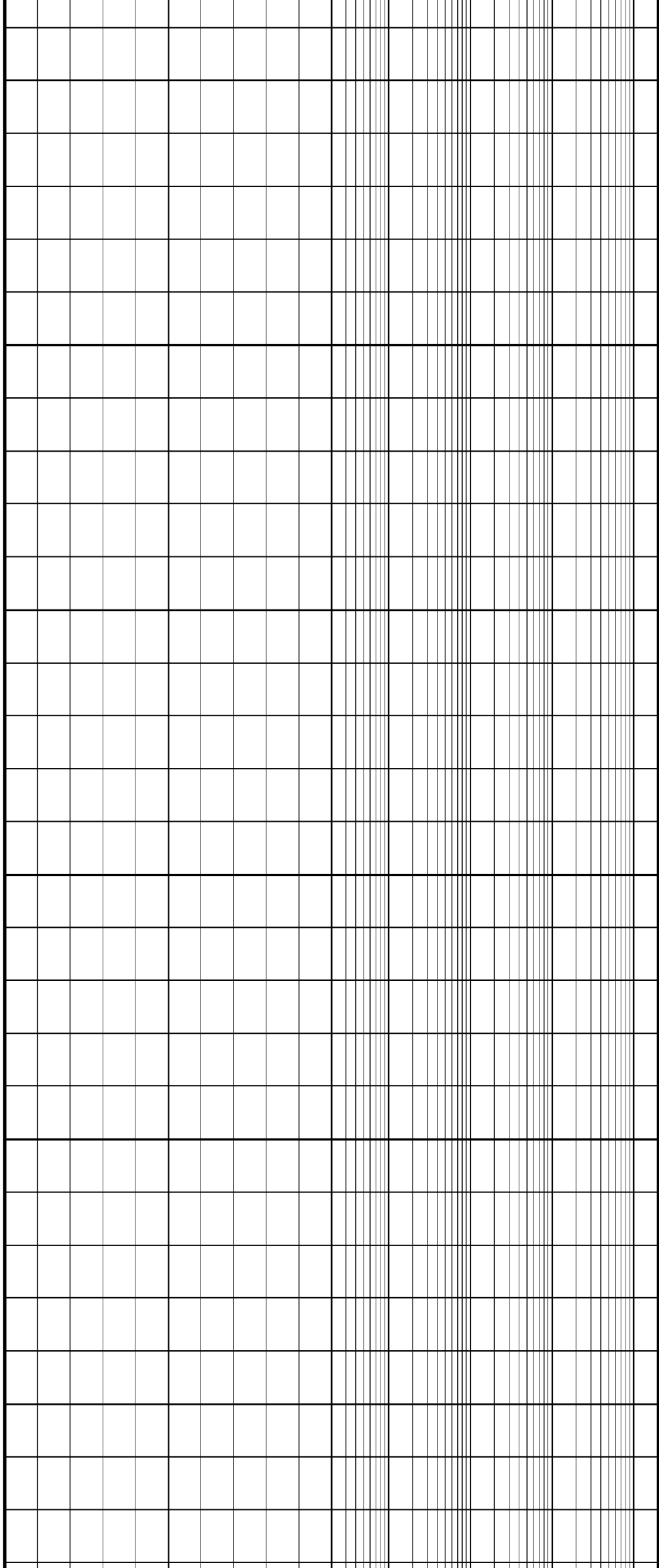




250

300

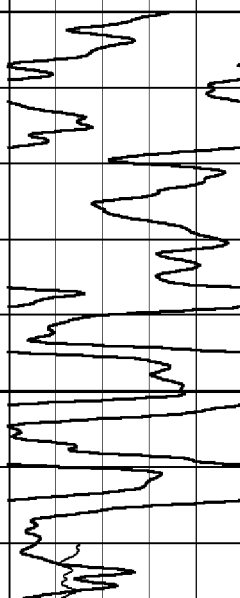
350



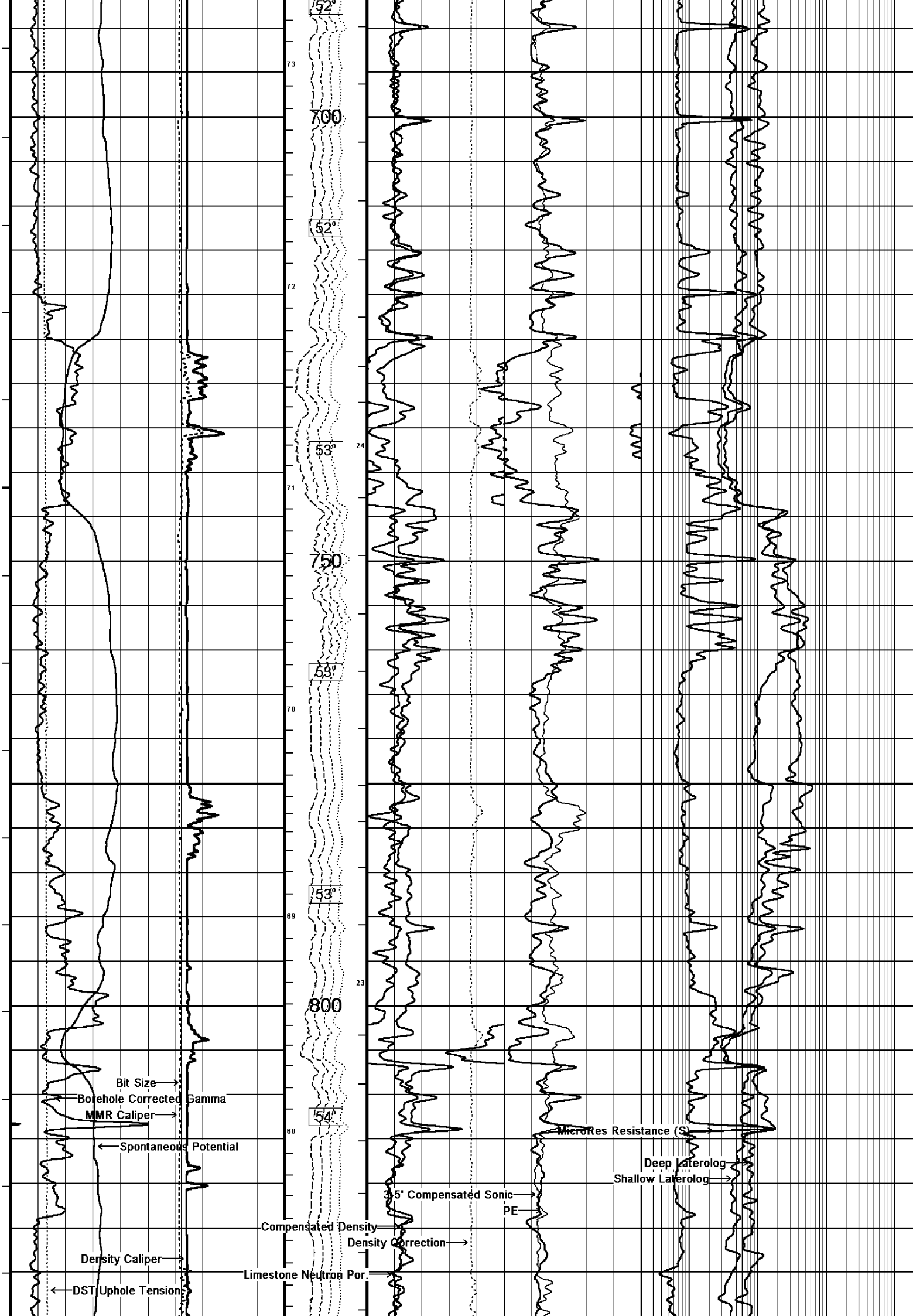
400

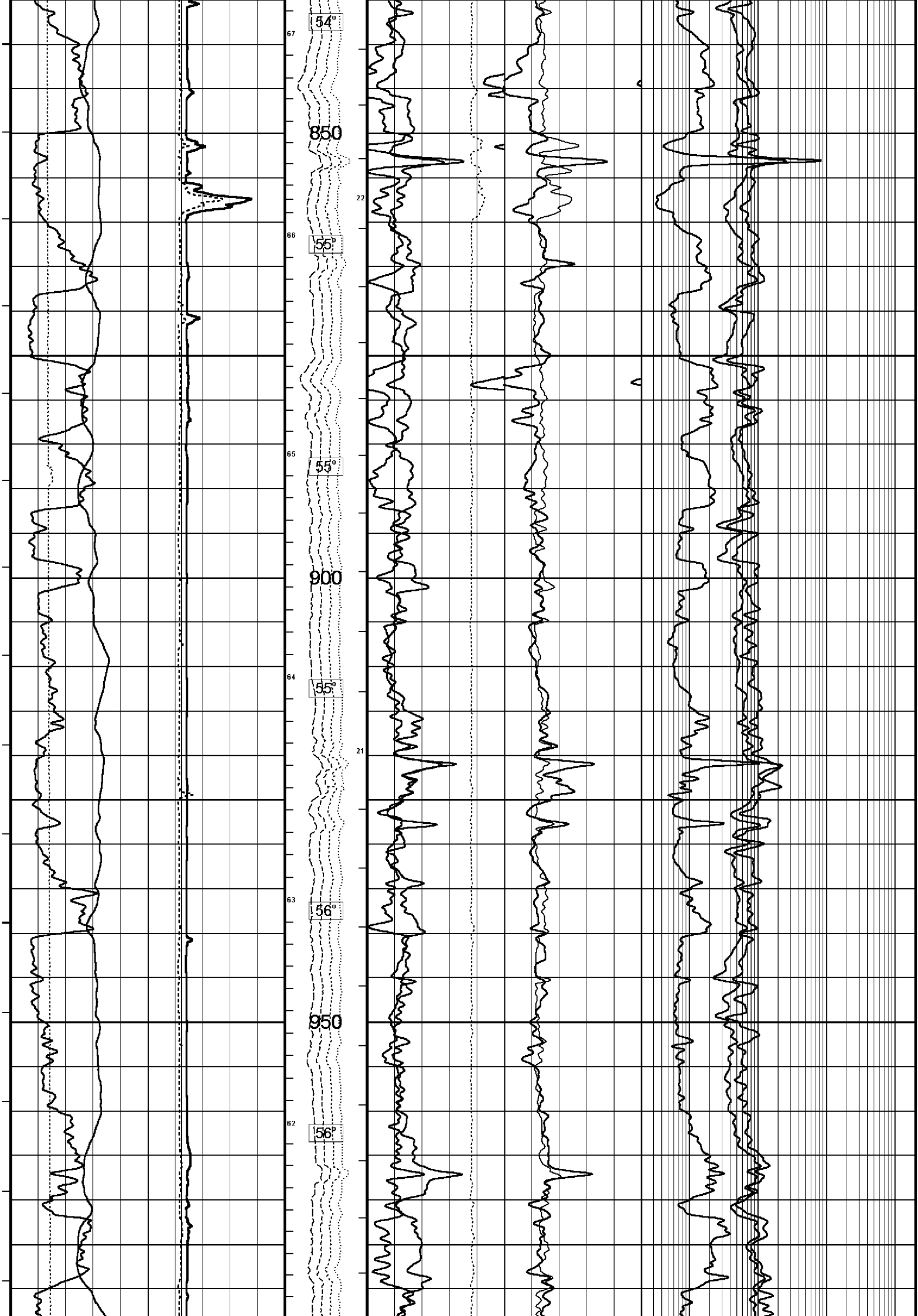
450

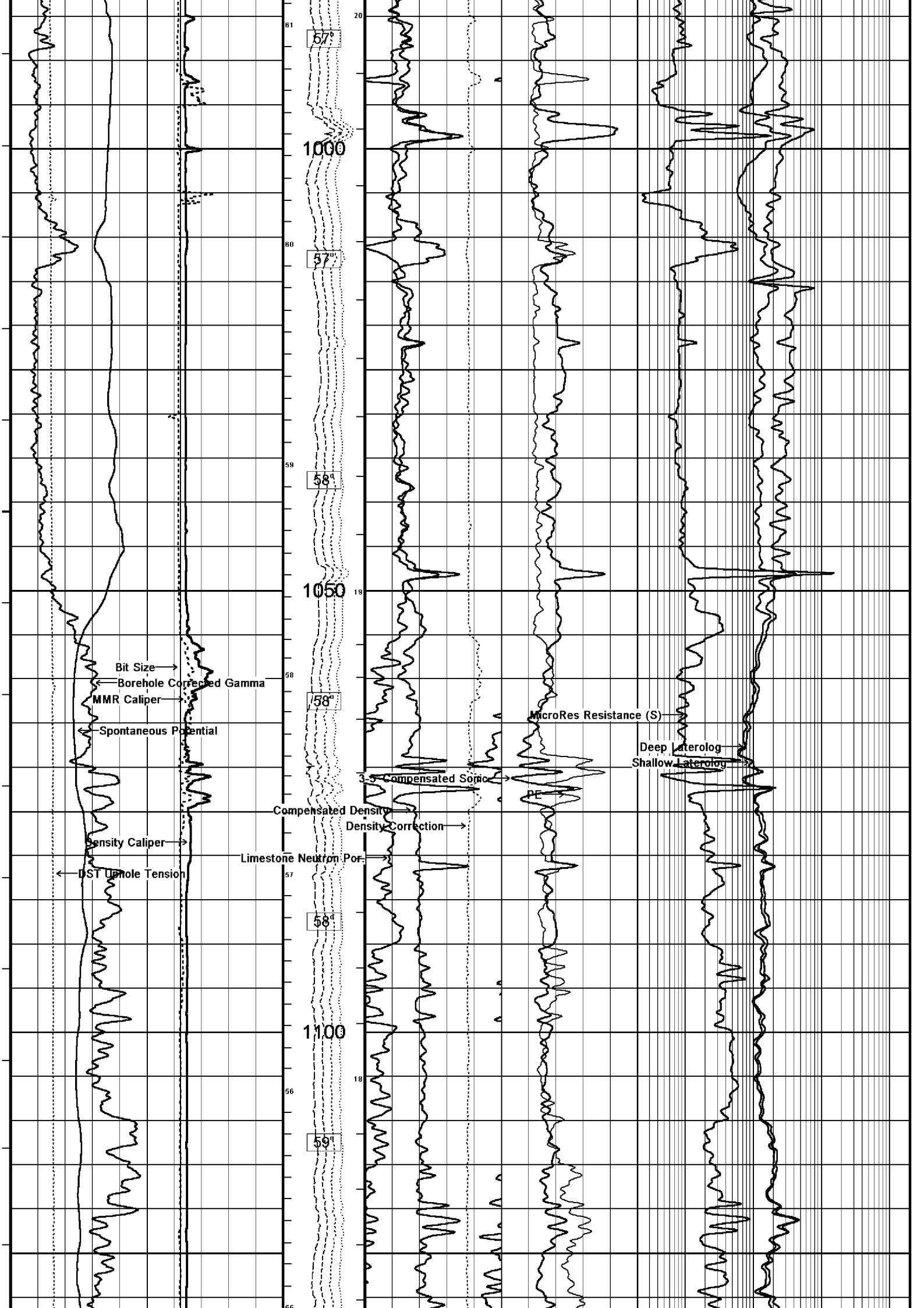
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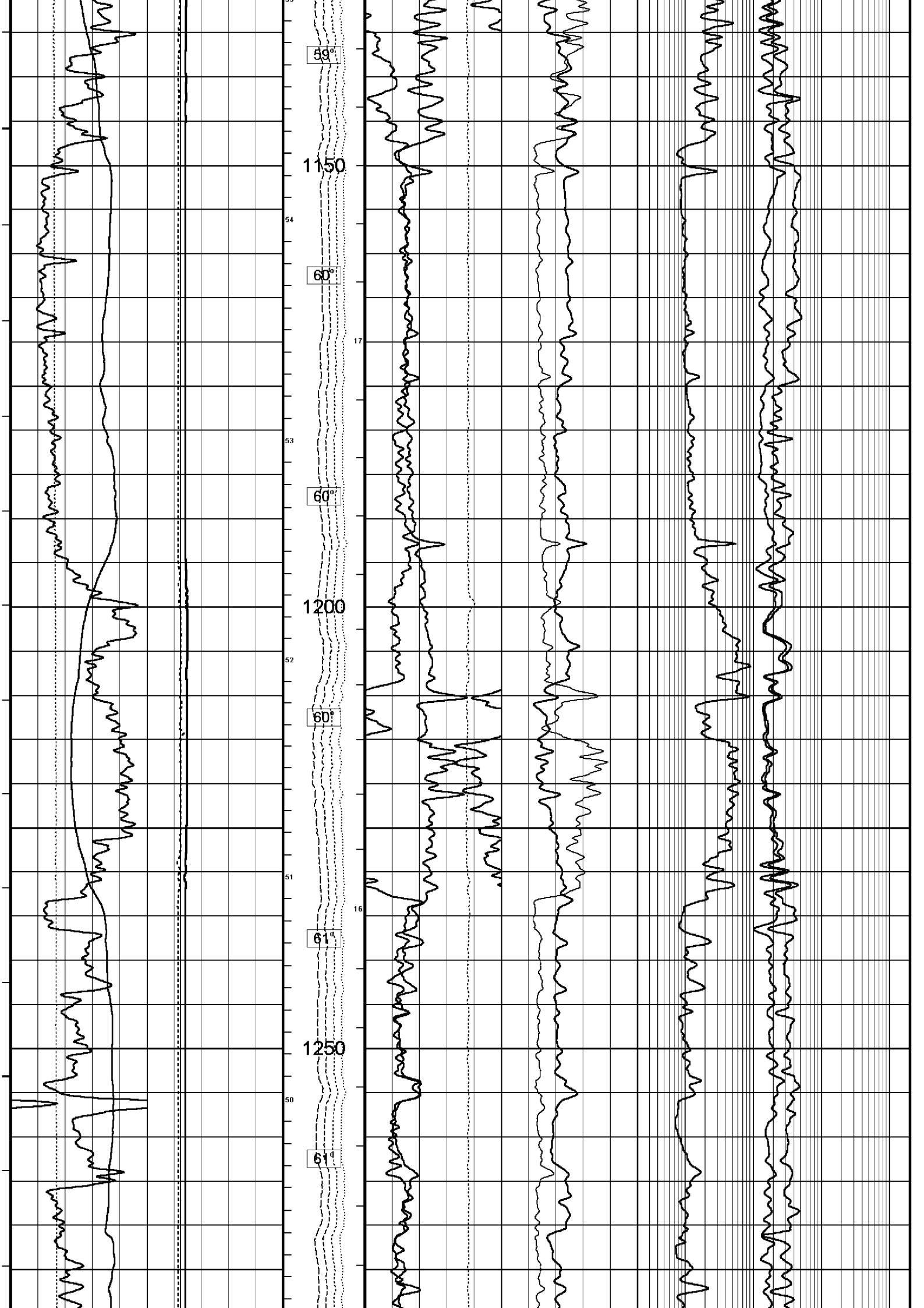


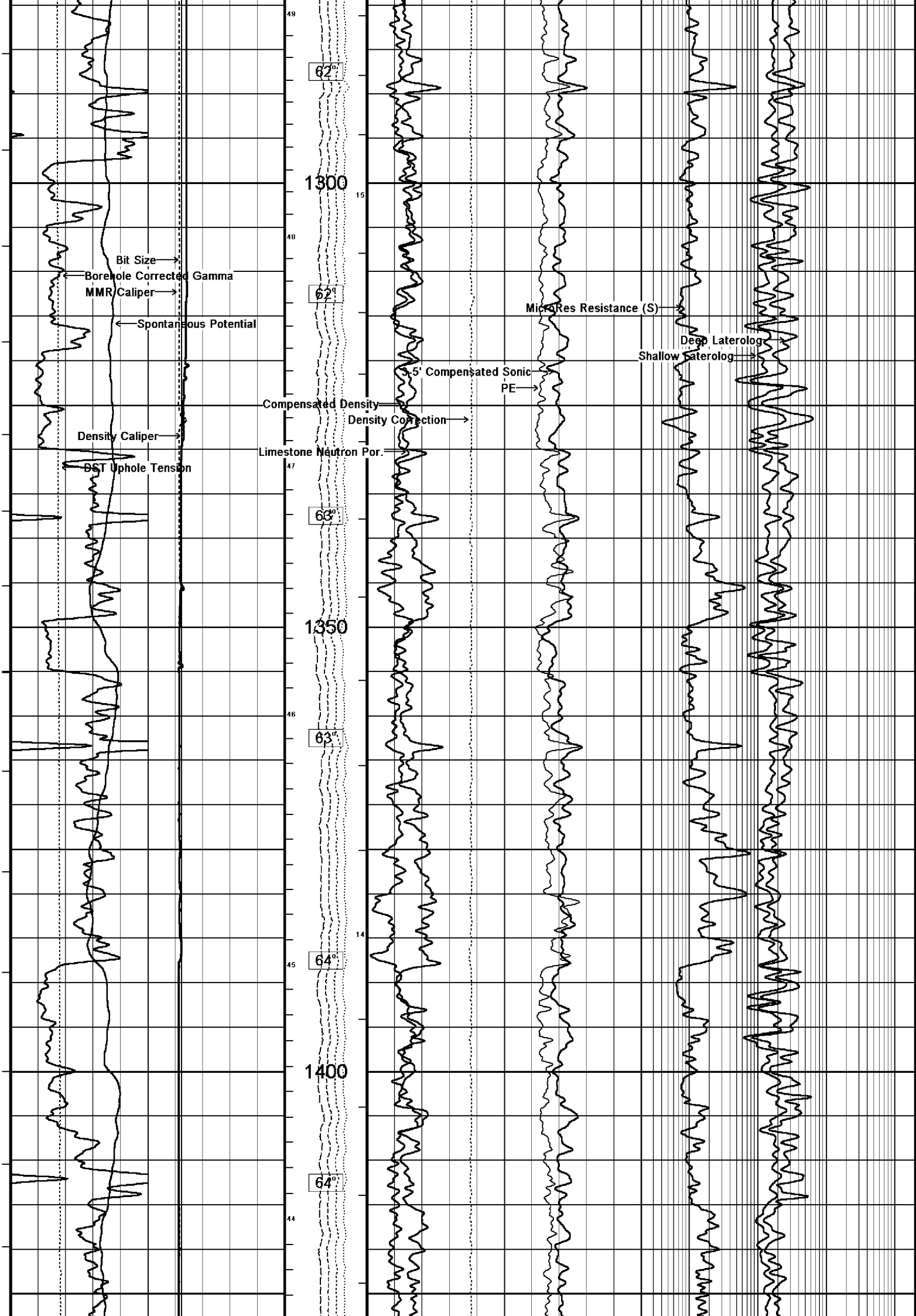


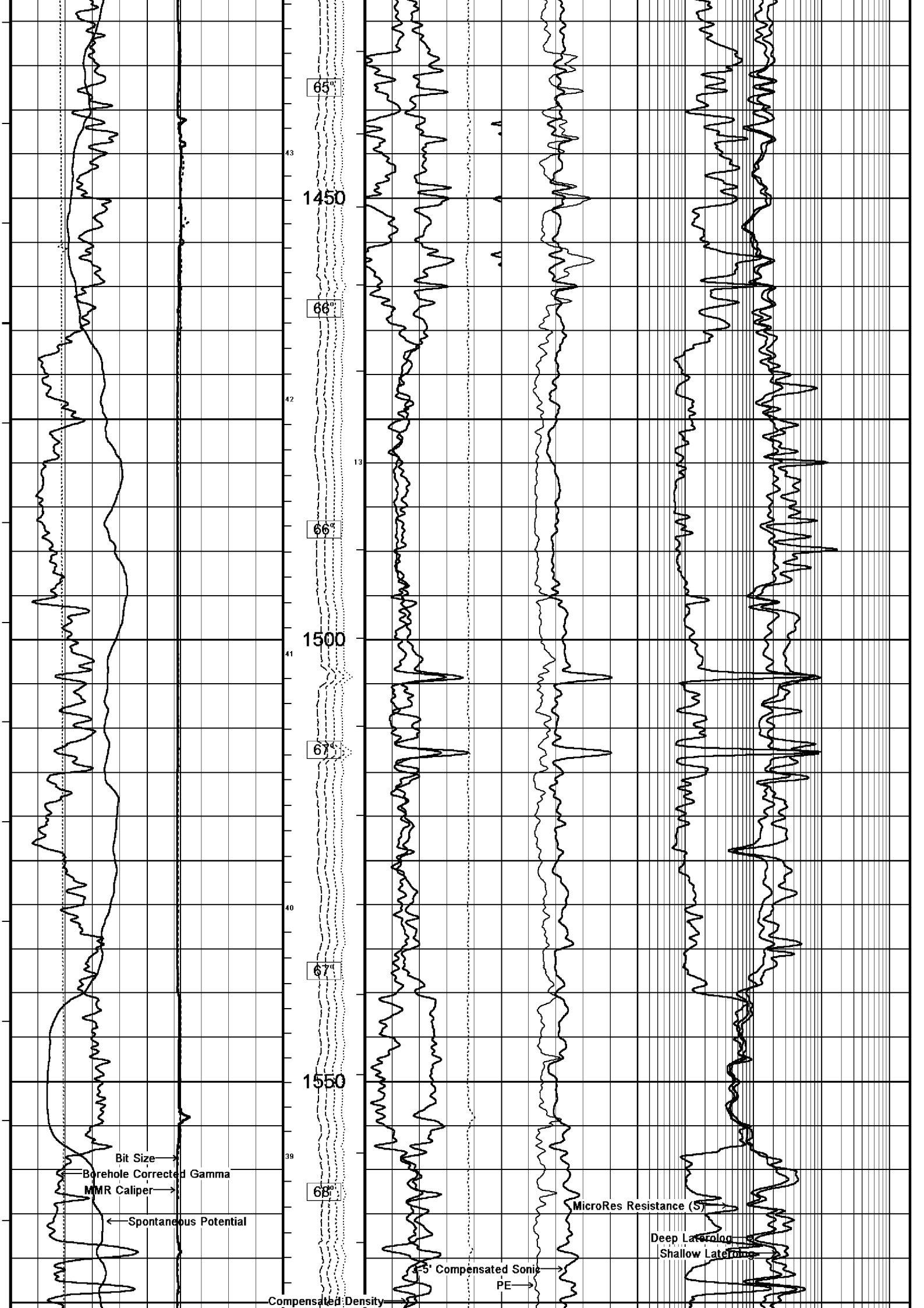


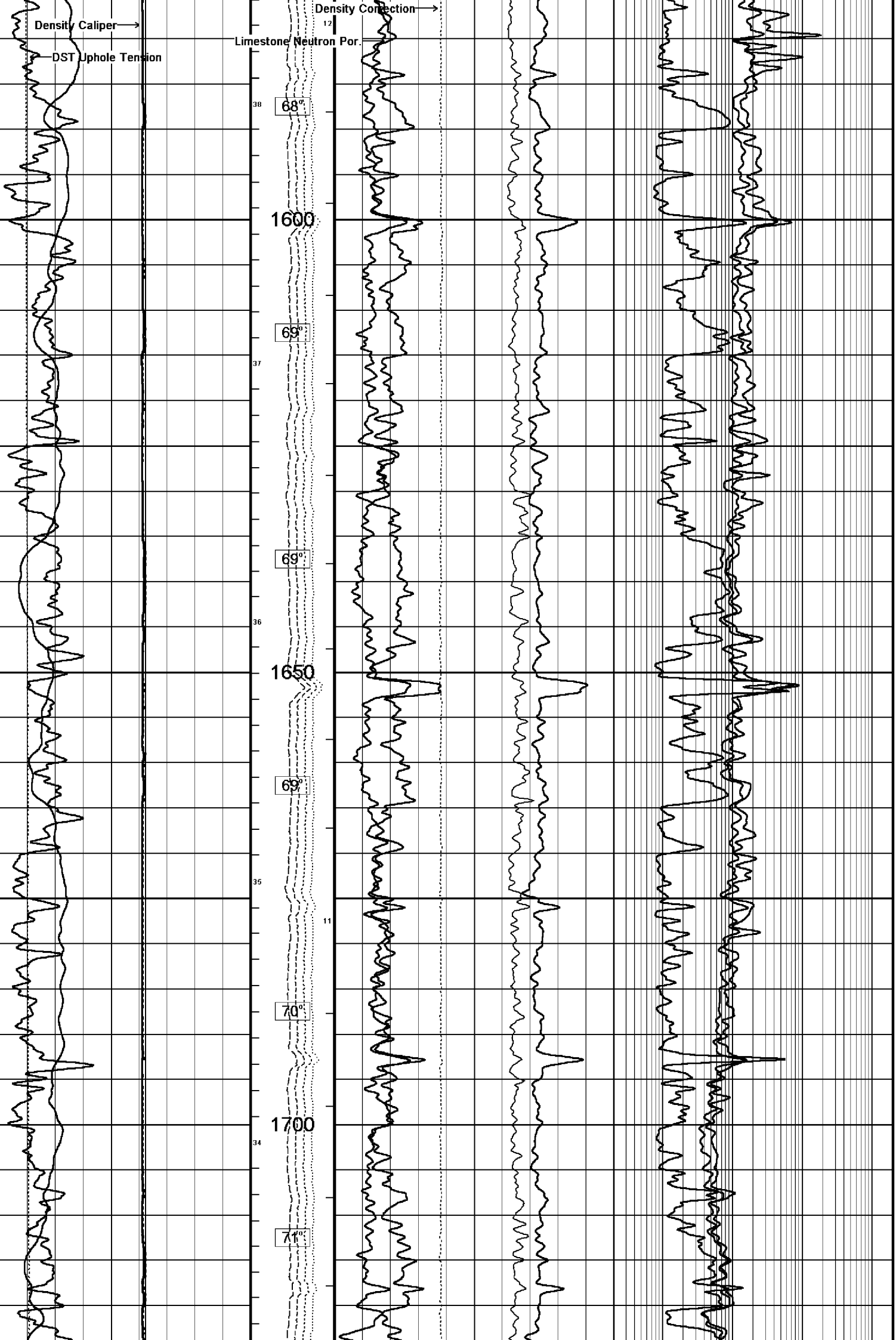


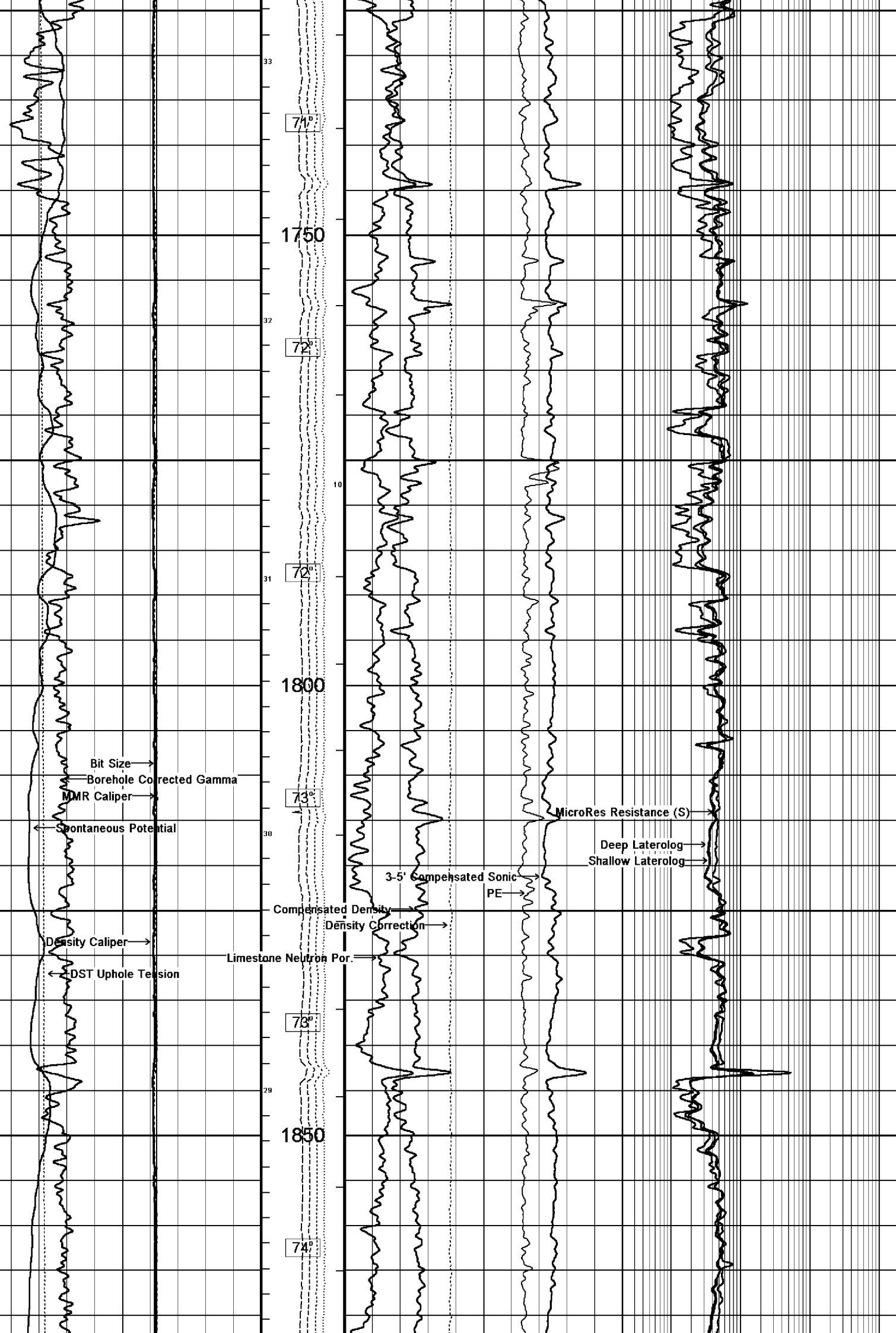


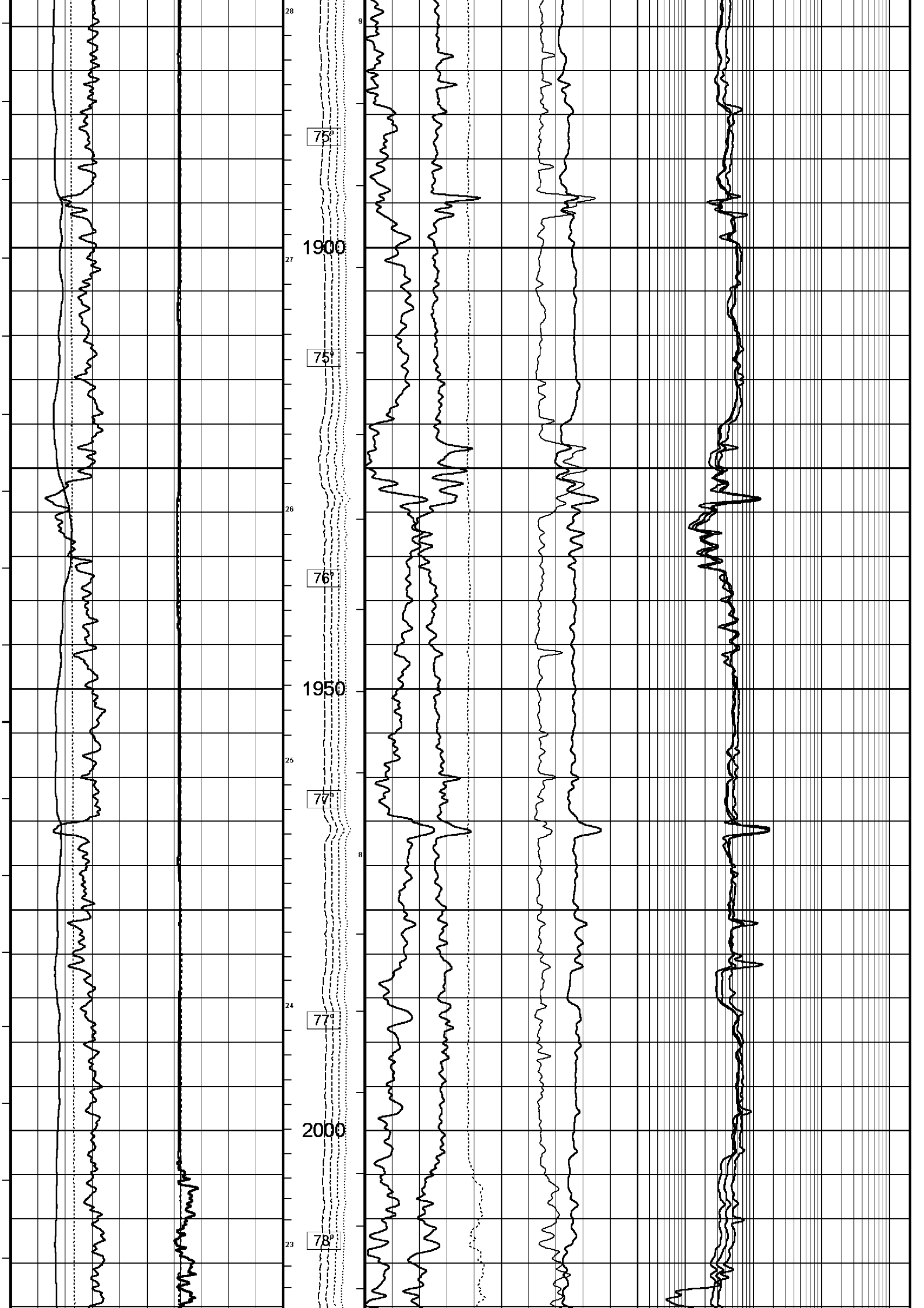


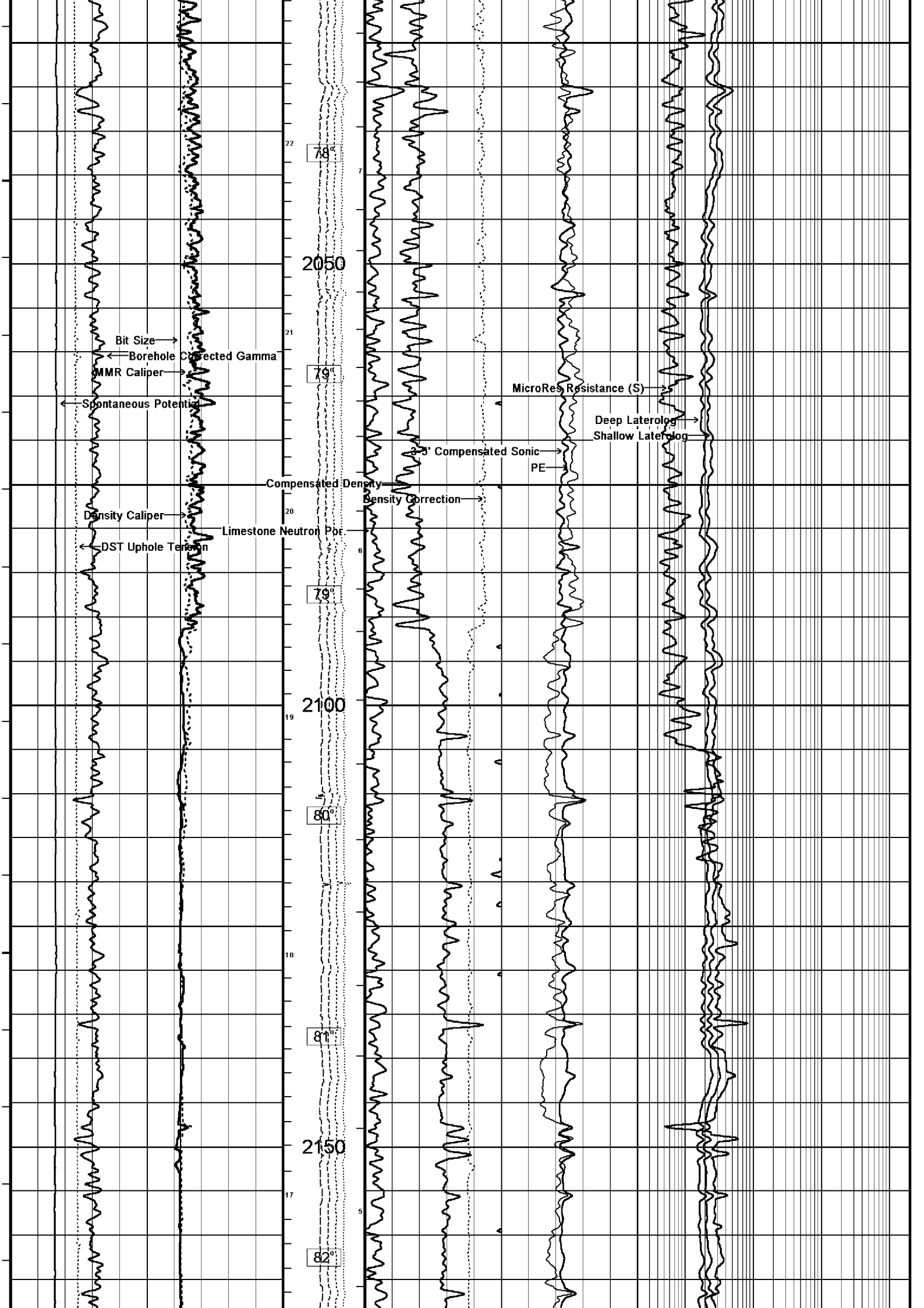


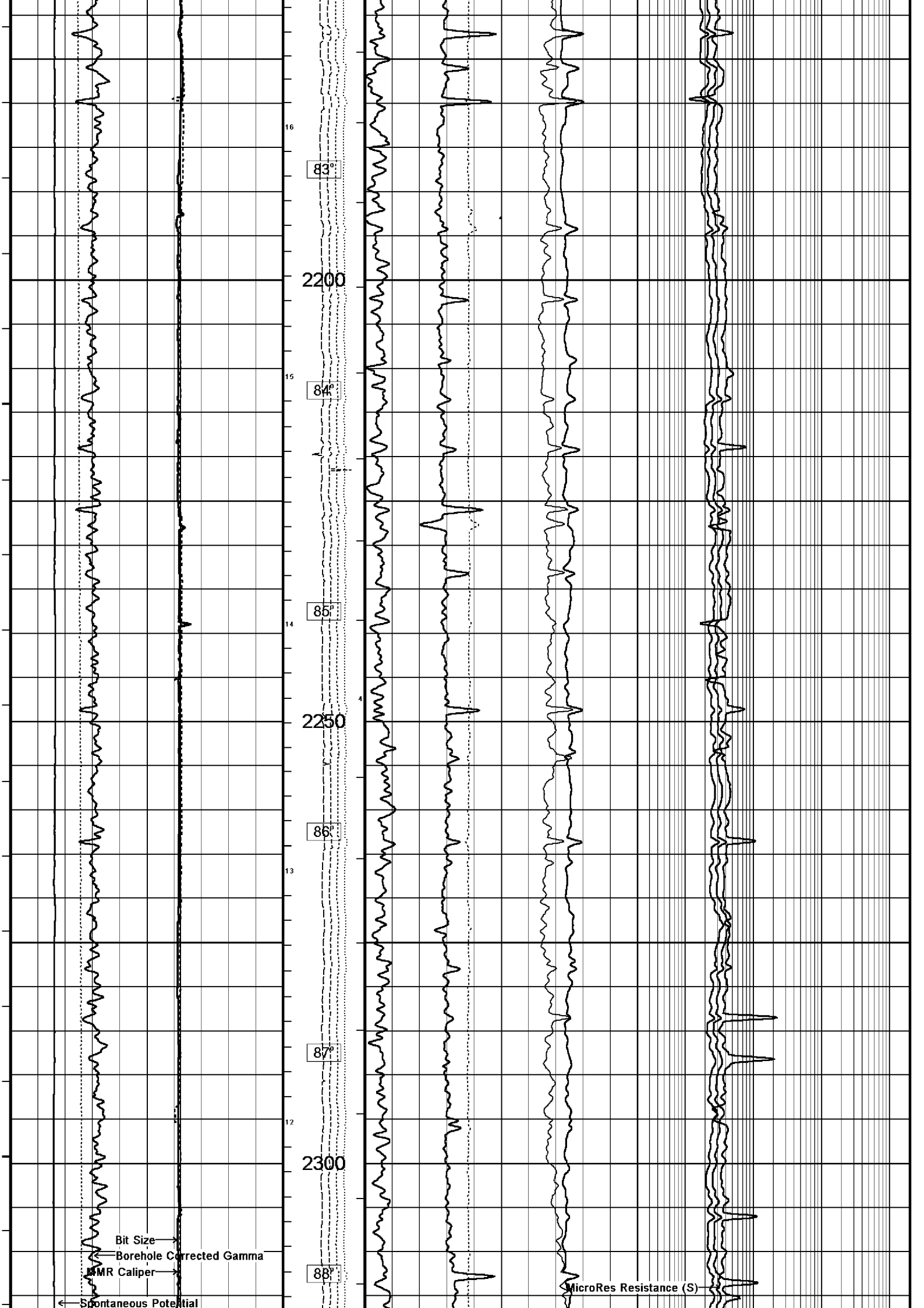


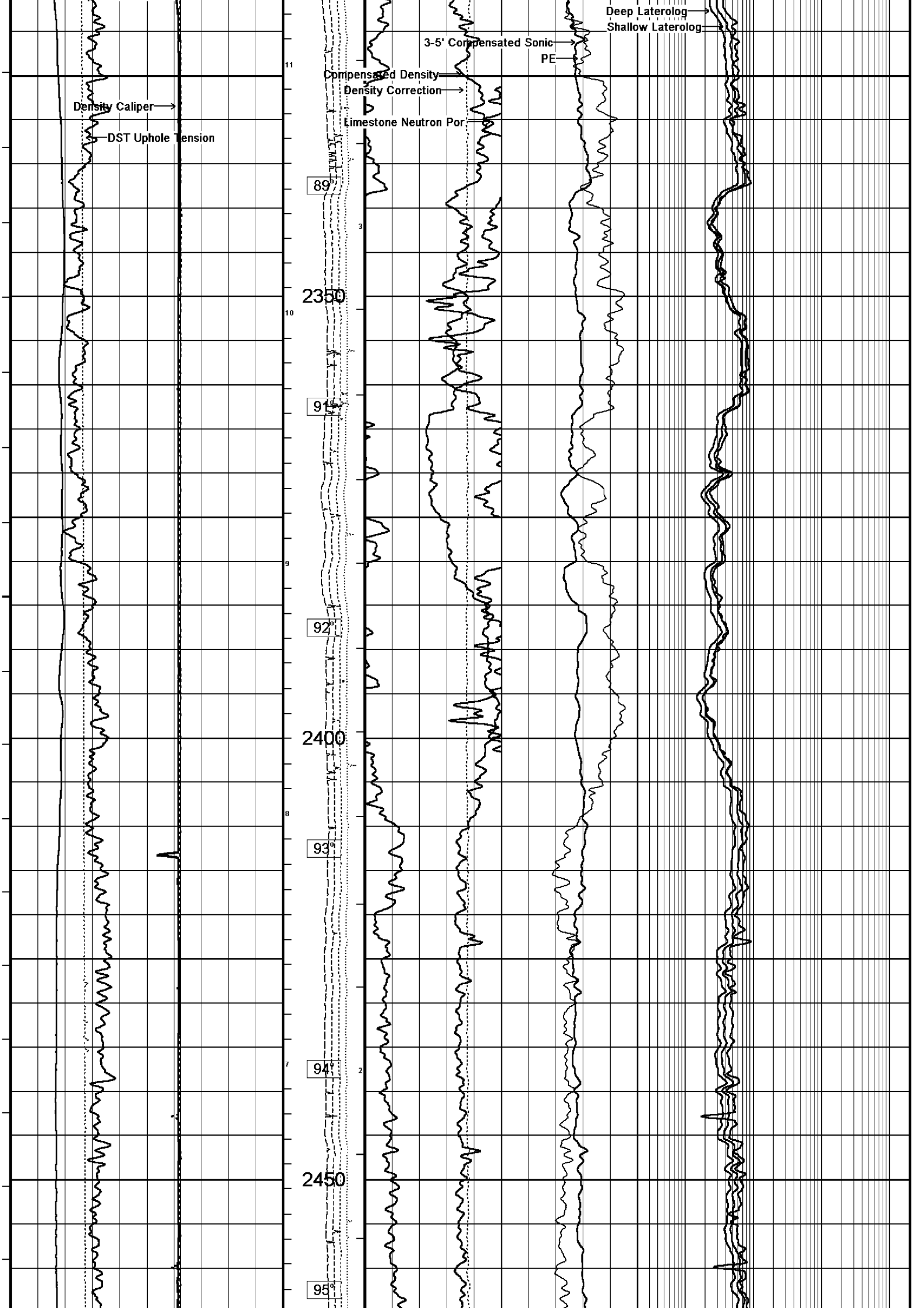


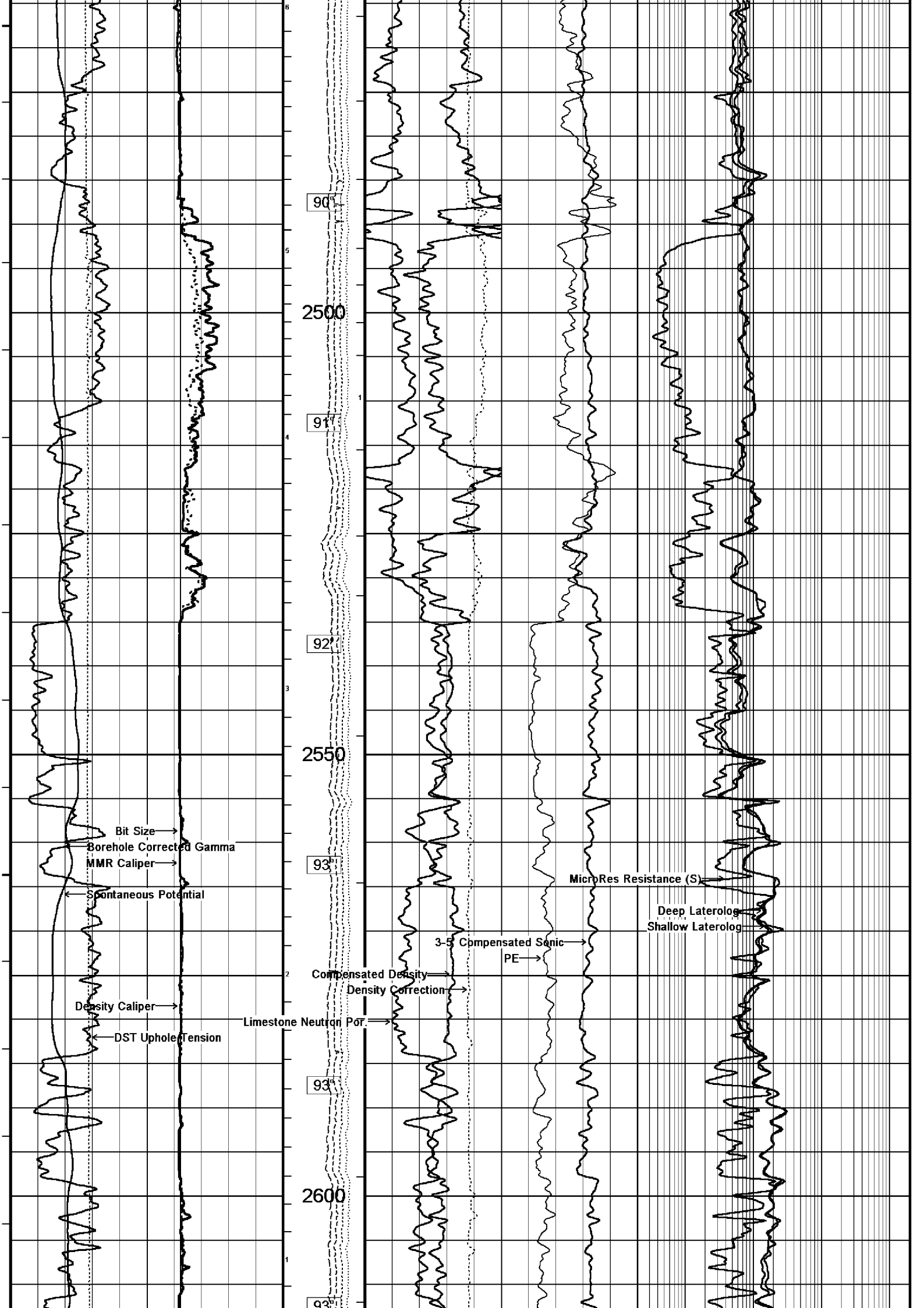


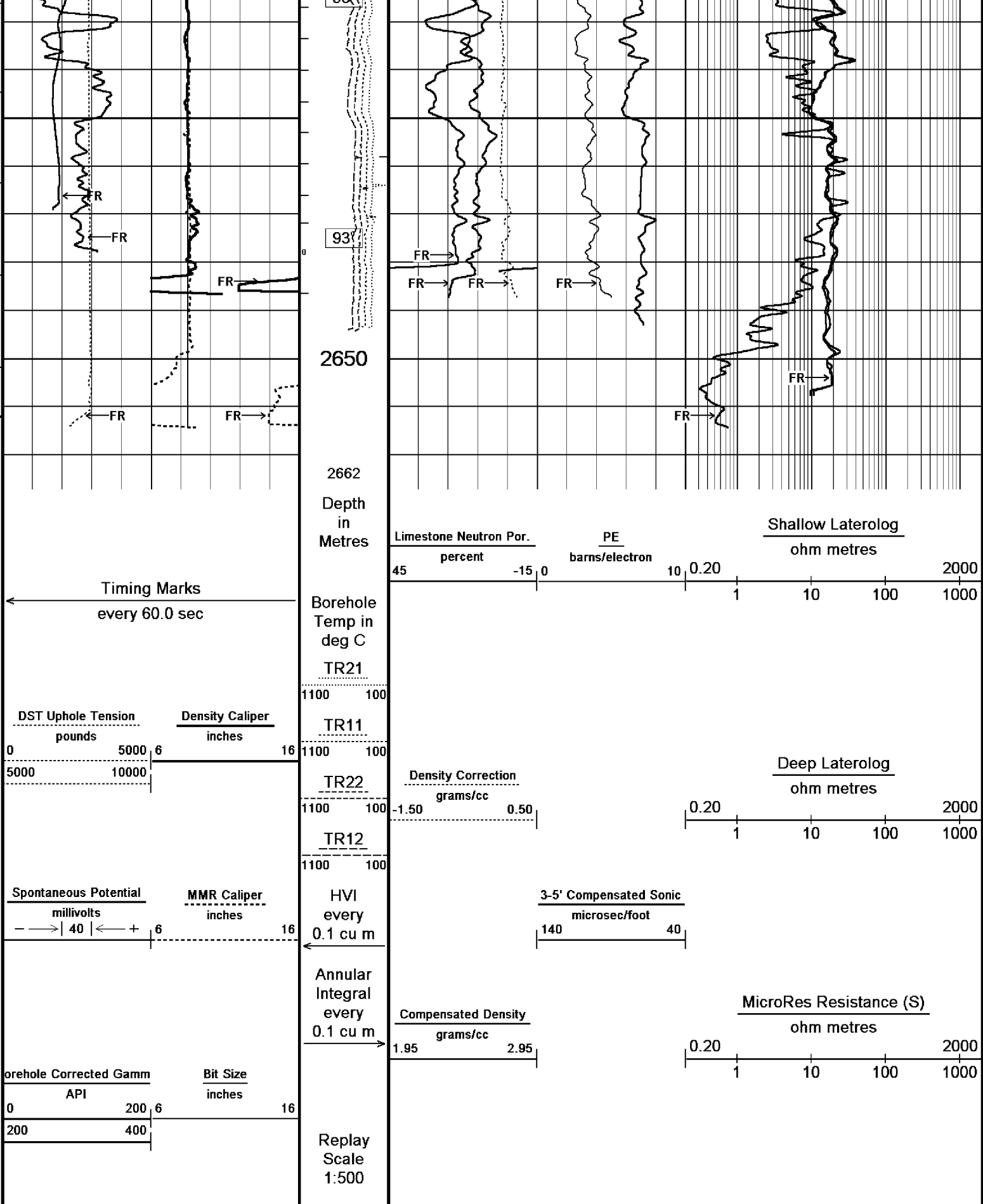










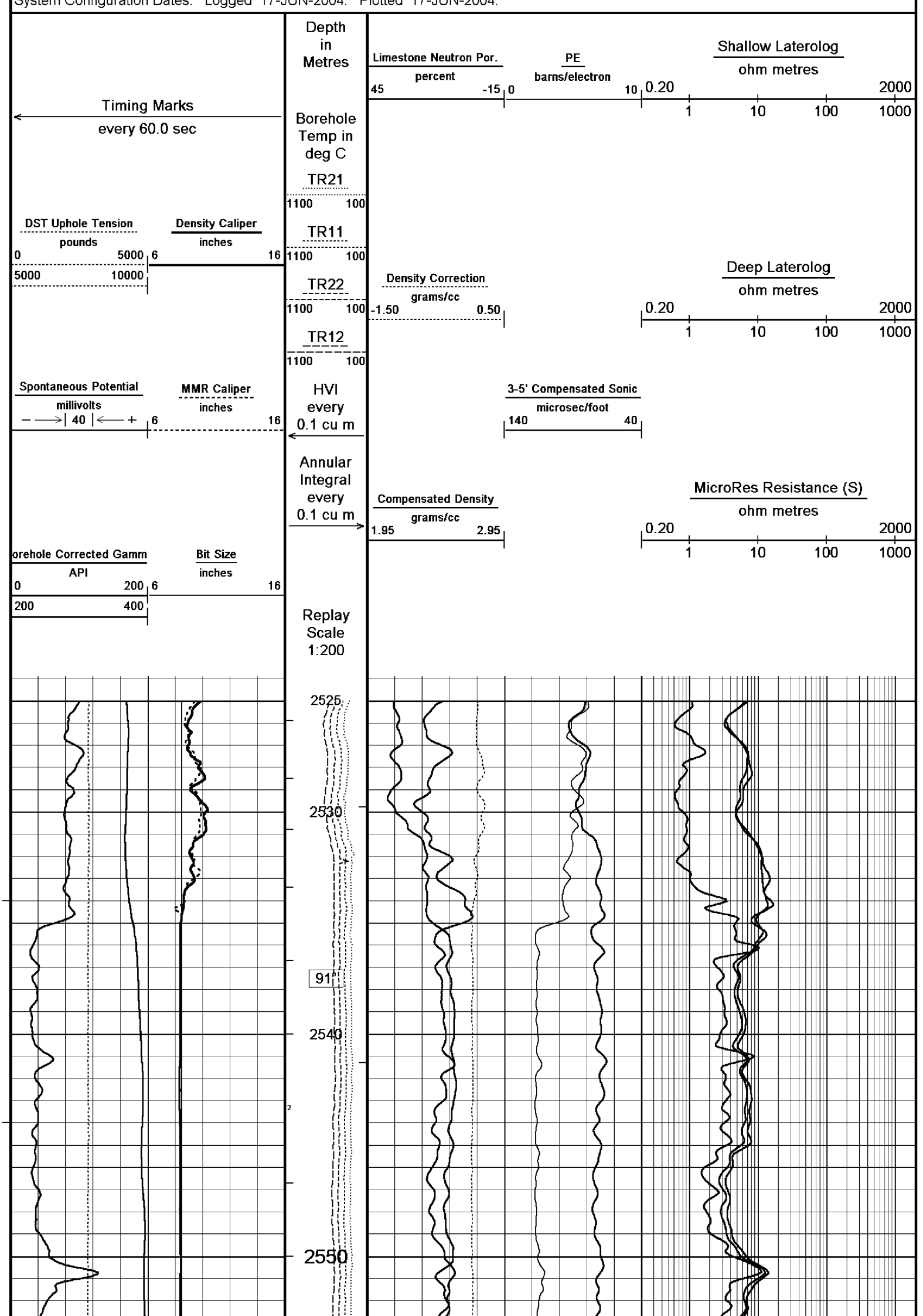


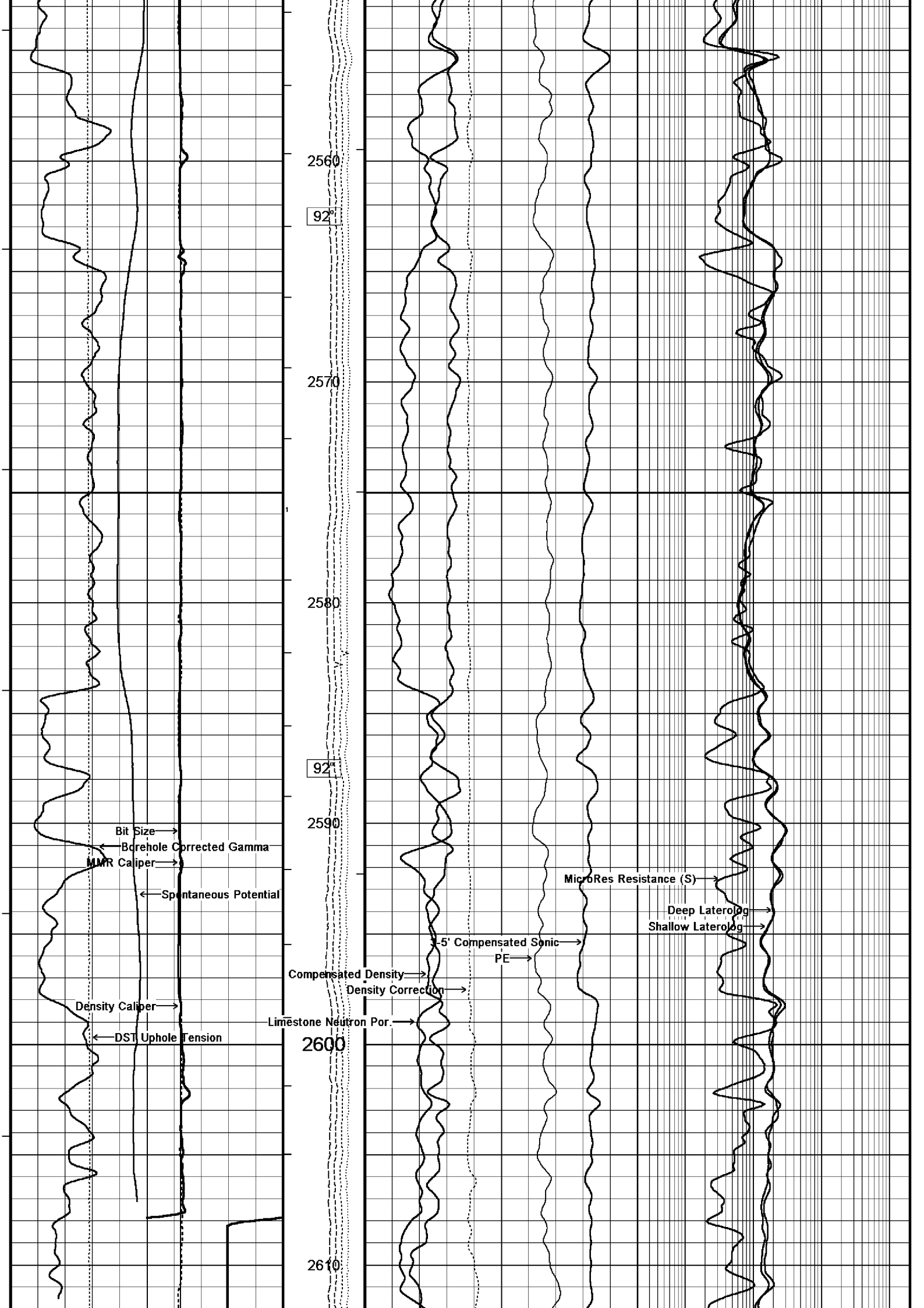
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logs\Origin\Childers Cove 1 Run 2\SUPERCOMBO_COMBINED_MAIN_LOG.dta
System Configuration Dates: Logged : Plotted 17-JUN-2004:
Plotted on 03-NOV-2005 15:41
Recorded on 04-OCT-2005 00:45

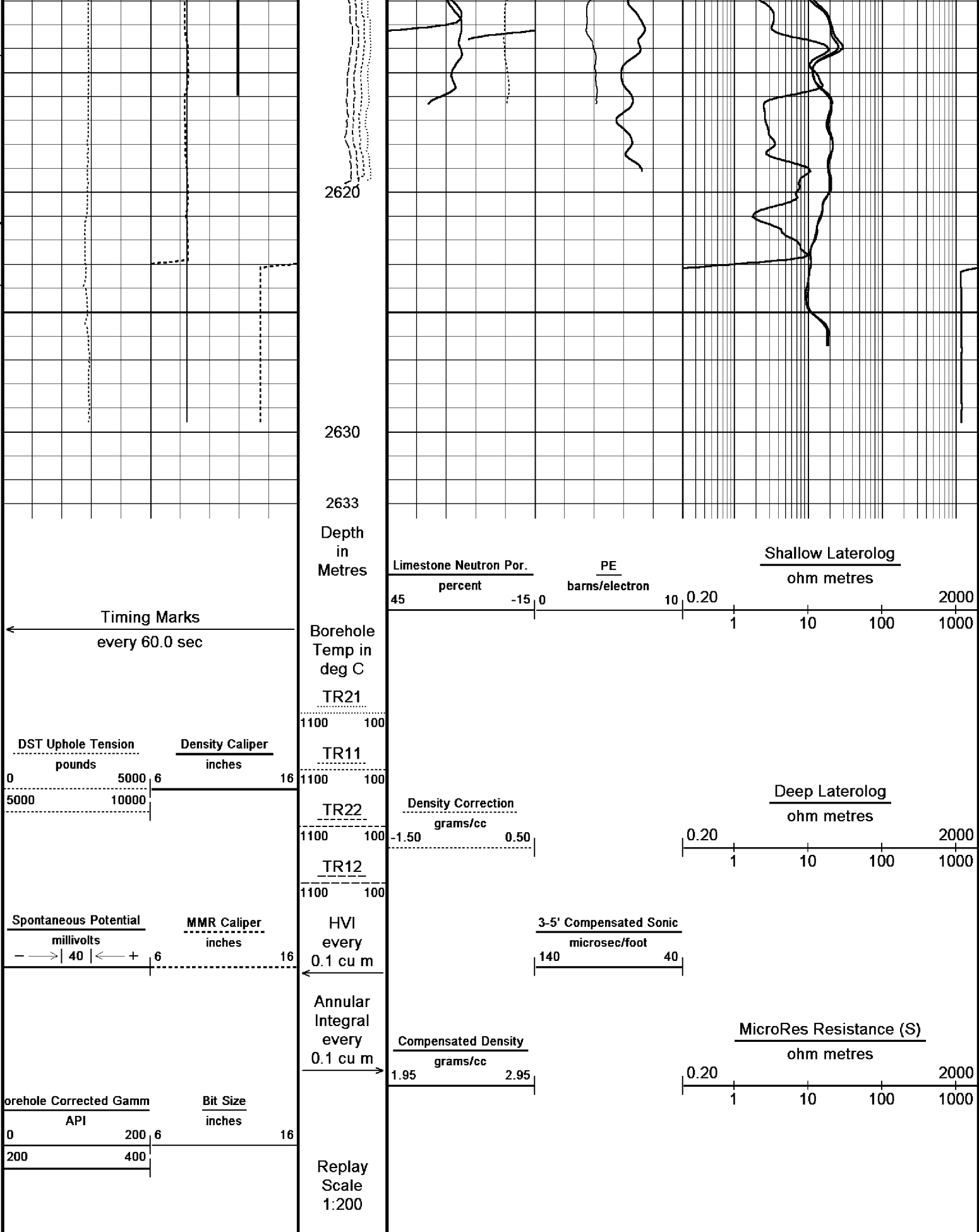
MAIN LOG 1:500

REPEAT SECTION 1:500 RUN 2

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logs\Origin\Childers Cove 1 Run 2\SUPERCOMBO_4_002.dta
System Configuration Dates: Logged 17-JUN-2004: Plotted 17-JUN-2004:
Plotted on 03-NOV-2005 15:41
Recorded on 04-OCT-2005 00:11







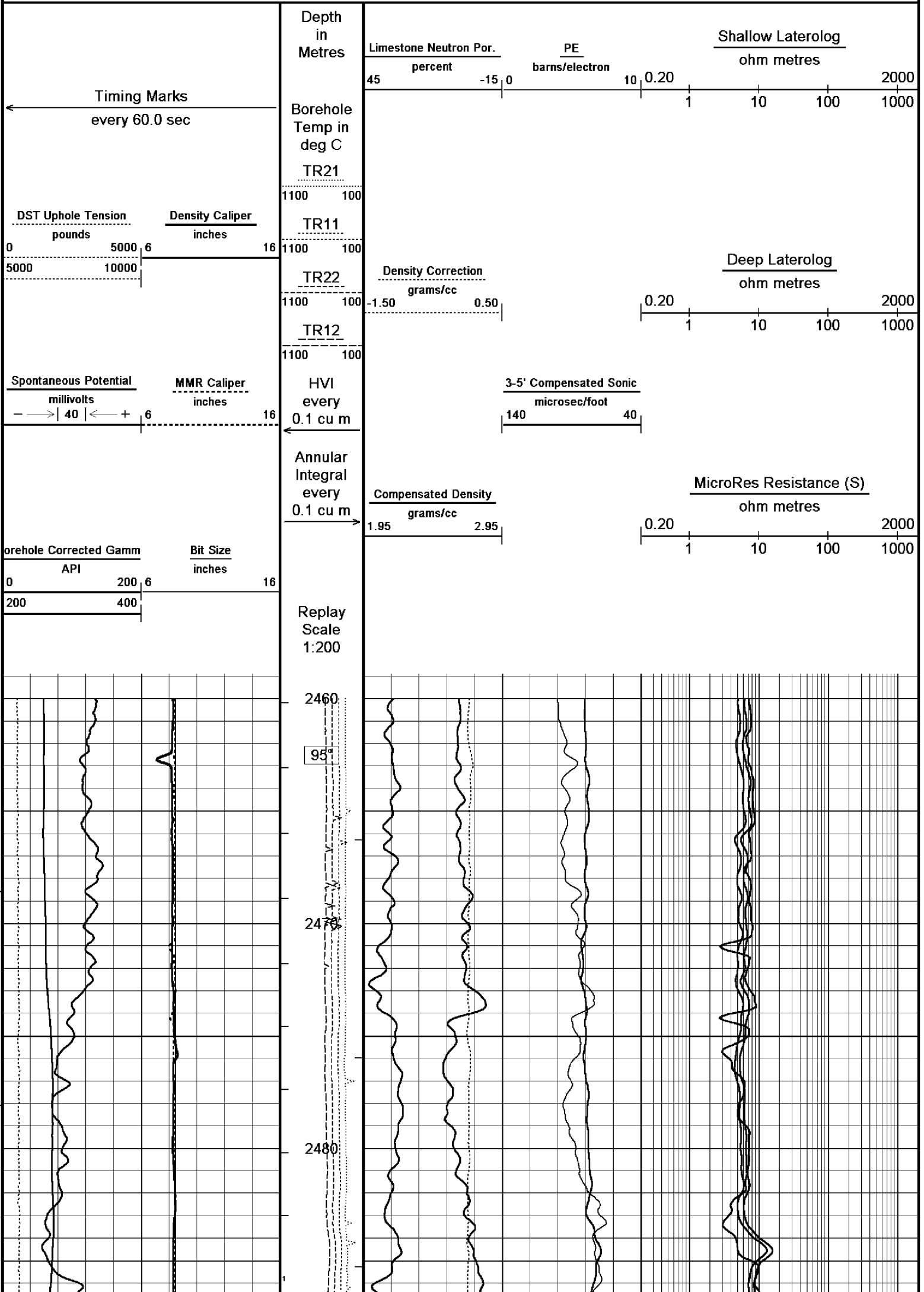
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logs\Origin\Childers Cove 1 Run 2\SUPERCOMBO_4_002.dta
System Configuration Dates: Logged 17-JUN-2004: Plotted 17-JUN-2004:

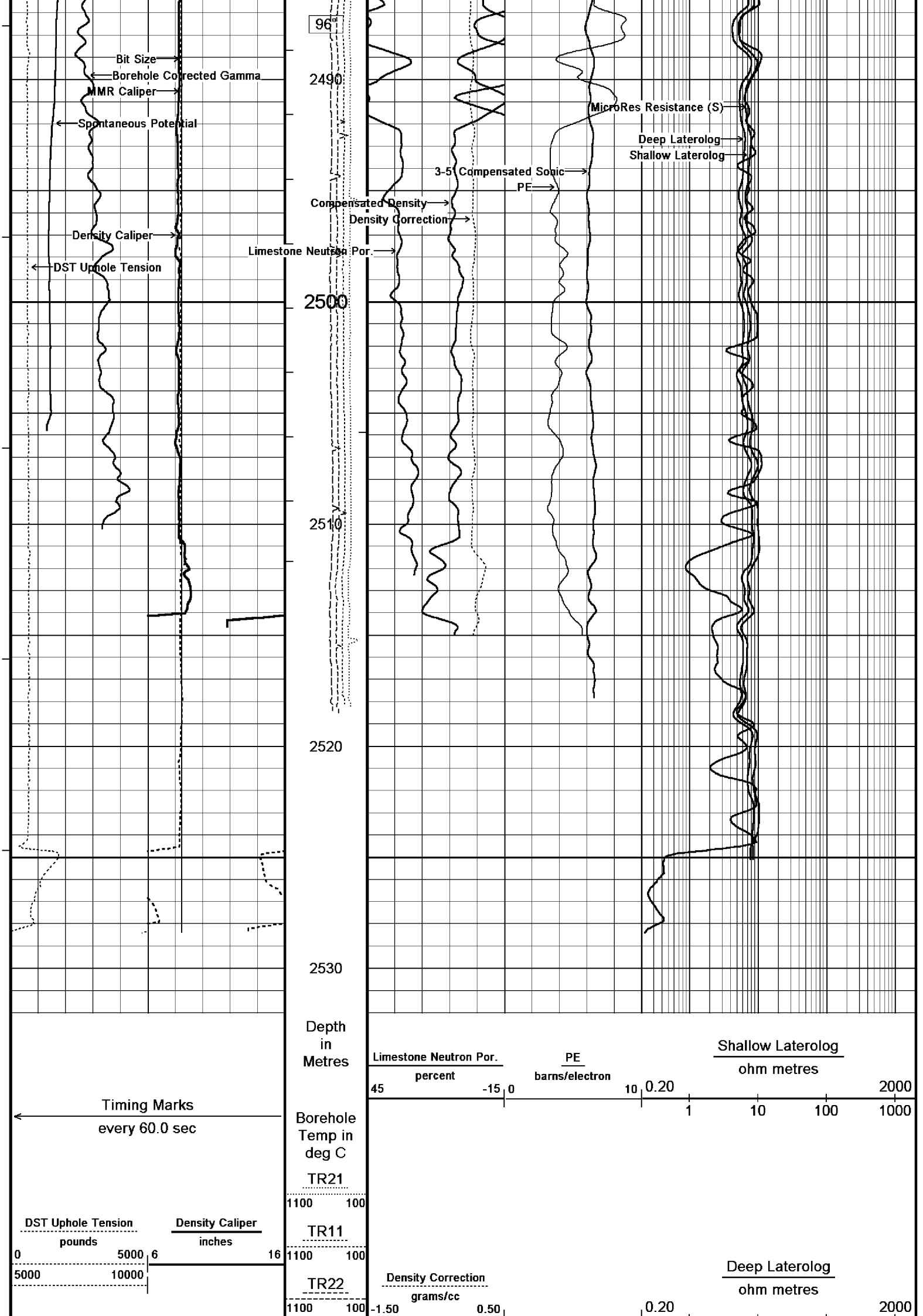
Plotted on 03-NOV-2005 15:41
Recorded on 04-OCT-2005 00:11

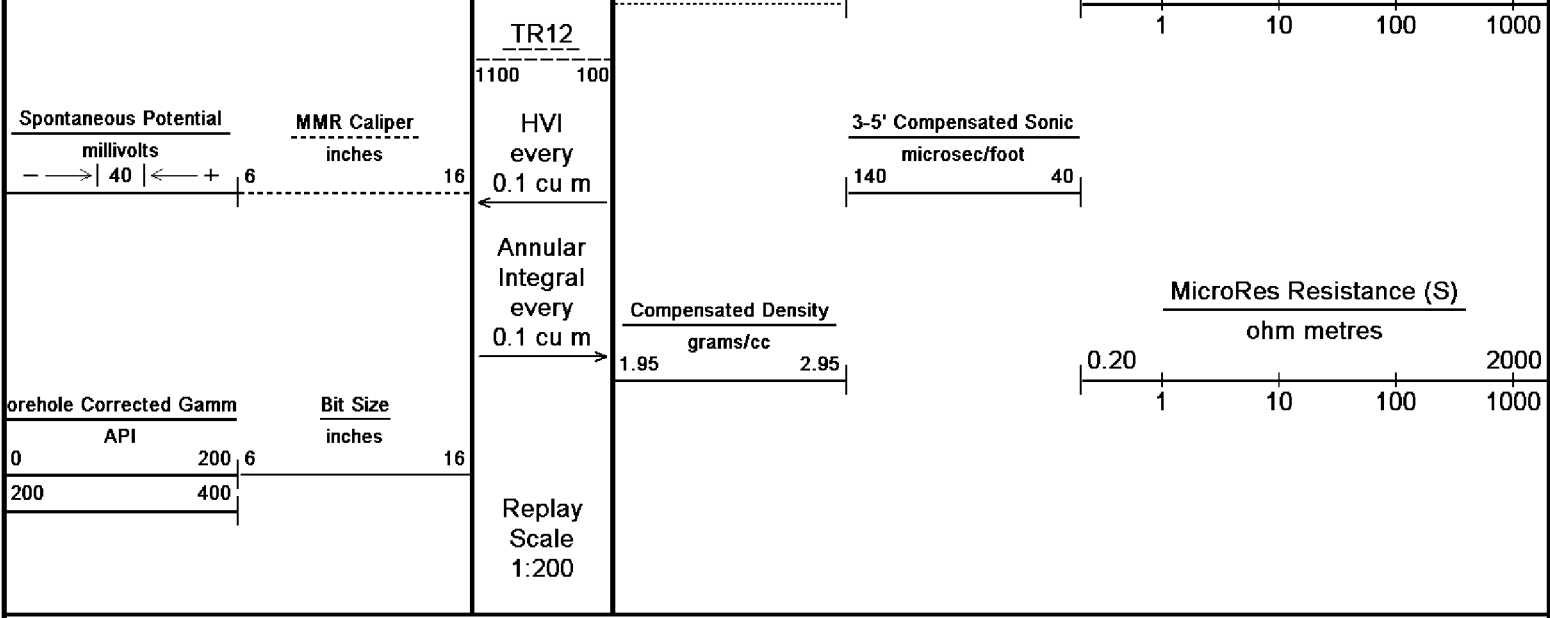
REPEAT SECTION 1:500 RUN 2

REPEAT SECTION 1:500 RUN 1

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 03-NOV-2005 15:41

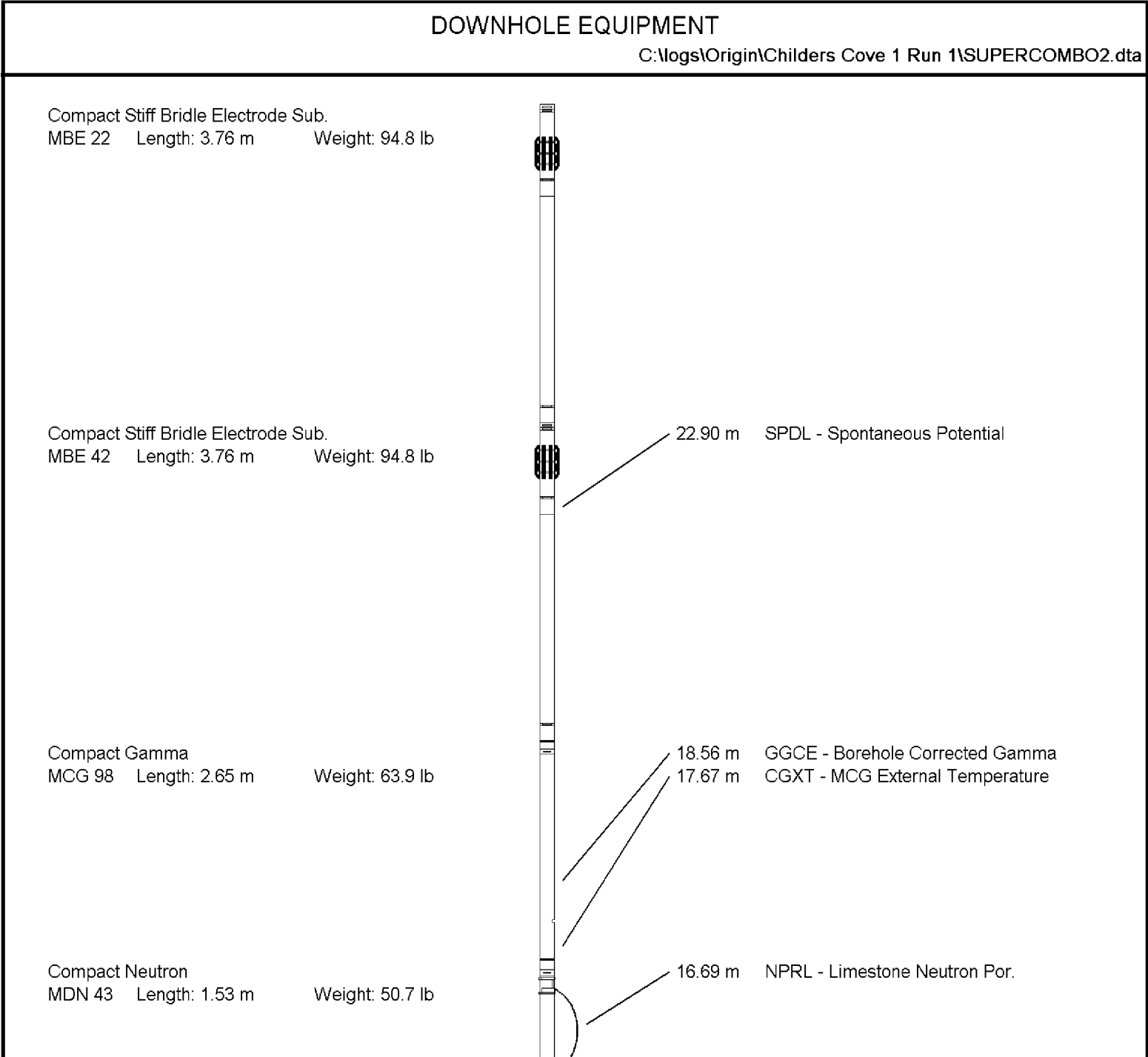






Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 03-NOV-2005 15:41
Filename: C:\logs\Origin\Childers Cove 1 Run 1\SUPERCOMBO2.dta
Recorded on 01-OCT-2005 18:14
System Configuration Dates: Logged 17-JUN-2004: Plotted 17-JUN-2004:

↑ REPEAT SECTION 1:500 RUN 1 ↑



Compact Density/Caliper
MPD 66 Length: 2.92 m Weight: 90.4 lb

Compact Knuckle Joint
SKJ 3 Length: 0.66 m Weight: 24.3 lb

Compact Sonic
MSS 49 Length: 3.82 m Weight: 72.8 lb

Compact Upper Guard Sub.
MUG 20 Length: 2.74 m Weight: 68.3 lb

Compact Laterolog Electrode Sub.
MLE 16 Length: 3.76 m Weight: 92.6 lb

Compact Micro-Resistivity
MMR 5 Length: 2.62 m Weight: 81.6 lb

Pressure Bung + Hole Finder
HFS 3 Length: 0.28 m Weight: 6.6 lb

Total Length: 28.50 m Weight: 740.8 lb

14.01 m AVOL - Annular Volume
14.01 m HVOL - Hole Volume
14.01 m CLDC - Density Caliper
13.80 m DEN - Compensated Density

13.80 m DCOR - Density Correction
13.78 m PDPE - PE

9.24 m TR21 - 3' Transit Time
9.24 m TR22 - 5' Transit Time
9.24 m TR11 - 4' Transit Time
9.24 m DT35 - 3-5' Compensated Sonic

9.24 m TR12 - 6' Transit Time

3.93 m DSLL - Shallow Laterolog
3.93 m DDLL - Deep Laterolog

0.00 m MRRS - MicroRes Resistance (S)
0.00 m MATC - MMR Caliper
Tool Zero (0.85m from bottom)

All measurements relative to tool zero.

BEFORE SURVEY CALIBRATION

C:\logs\Origin\Childers Cove 1 Run 2\SUPERCOMBO_COMBINED_MAIN_LOG.dta

General Constants All 000

General Parameters

Mud Resistivity 3.210 ohm-metres
Mud Resistivity Temperature 20.000 degrees C

Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Limestone Sonic Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.610	
RWA Constant M	2.150	

Gamma Calibration MCG 098			Field Calibration on 3-OCT-2005,19:46
	Measured	Calibrated (API)	
Background	29	22	
Calibrator (Gross)	1029	771	
Calibrator (Net)	1000	749	

Gamma Constants MCG 098		
Gamma Calibrator Number	30	
Mud Density	1.16	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Calibration MCG 098			Field Calibration on 3-OCT-2005,20:14
	Measured	Calibrated(Deg C)	
Lower	0.00	0.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG 098		
Pre-filter Length	11	

Neutron Calibration MDN 043			Base Calibration on 22-AUG-2005 15:53
			Field Check on 3-OCT-2005,20:14
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	3021 94	3714 110	
Ratio	32.071	33.764	
Field Calibrator at Base			
		Calibrated (cps)	
		1674 2333	
Ratio		0.717	
Field Check			
		Calibrated (cps)	
		1647 2293	
Ratio		0.718	

Neutron Constants MDN 043		
Neutron Source Id	NSNE-747	
Neutron Jig Number	31	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.16	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	Constant Value	
Temperature	20.00	degrees C
Mud Salinity	11.57	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Photo Density Calibration MPD 066			Base Calibration on 22-AUG-2005,12:13
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Density Calibration

Base Calibration

Measured

Calibrated (sdu)

Near

Far

Near

Far

Reference 1

49825

17938

53111

19310

Reference 2

23308

2480

24951

2530

Field Check at Base

918.0

1089.7

Field Check

919.8

1086.8

PE Calibration

Base Calibration

Measured

Calibrated

WS

WH

Ratio

Ratio

Background

176

793

Reference 1

15856

49650

0.321

0.320

Reference 2

6240

23176

0.271

0.273

Field Check at Base

176.0

793.2

Field Check

173.6

795.1

Density Constants MPD 066

Density Source Id

NSDL250

Nylon Calibrator Number

DNC-D-536

Aluminium/Fe Calibrator Number

DAC-D-536

Density Shoe Profile

8 inch

Caliper Source for Processing

Density Caliper

PE Correction to Density

Not Applied

Mud Density

1.16

gm/cc

Mud Density Z/A Correction

1.11

Mud Filtrate Density

1.00

gm/cc

Dry Hole Mud Filtrate Density

1.00

gm/cc

DNCT

0.00

gm/cc

CRCT

0.00

gm/cc

Matrix Density (gm/cc)

Depth (m)

2.71

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Caliper Calibration MPD 066

Base Calibration on 22-AUG-2005 11:11

Field Calibration on 3-OCT-2005,20:15

Base Calibration

Reading No

Measured

Calibrator Size (in)

1

11983

4.01

2

20446

5.99

3

29120

7.98

4

37568

9.94

5

47008

12.01

6

N/A

N/A

Field Calibration

Measured Caliper (in)

Actual Caliper (in)

8.91

8.92

Sonic Constants MSS 049

Maximum Boundary Contrast

100.00

micro-sec/ft

Fluid Transit Time

189.00

micro-sec/ft

Limestone Transit Time

47.50

micro-sec/ft

Sandstone Transit Time

55.50

micro-sec/ft

Dolomite Transit Time

43.50

micro-sec/ft

Sonic used for Porosities

3-5' Compensated

Correction for Sonde Skew

Applied

Cycle Stretch Algorithm

Applied

MN3FT	0.00	micro-sec
MX3FT	1500.00	micro-sec

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	Depth (m)
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00

Down Hole Fixed Gate Parameters

Gate Start	0.00	micro-sec
Gate Width	0.00	micro-sec
Initial Discriminator Level	0.0000	mVolts

Full Waveform Parameters

Use 3' Waveform to derive TR	No	
Use 4' Waveform to derive TR	No	
Use 5' Waveform to derive TR	No	
Use 6' Waveform to derive TR	No	
3' Waveform Discriminator Level	0.30	mV
4' Waveform Discriminator Level	0.30	mV
5' Waveform Discriminator Level	0.15	mV
6' Waveform Discriminator Level	0.15	mV
3' Waveform Filter	0	
4' Waveform Filter	0	
5' Waveform Filter	0	
6' Waveform Filter	0	
Semblance Level	0.50	
Semblance Window Width	120.00	micro-sec
Sonic 1 Despiker	100.00	micro-sec/ft
Sonic 2 Despiker	100.00	micro-sec/ft

Laterolog Calibration MLE 016

Base Calibration on 24-AUG-2005 11:54
Field Check on 3-OCT-2005,20:15

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Shallow	9.7	965.7	13.3	1327.3
Deep	9.7	966.0	8.5	852.7
Groningen	9.7	966.3	8.5	852.7

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	49.4	49.4
Deep	31.7	31.7
Groningen	253.9	253.9

Laterolog Constants MLE 016

Squasher Start	40000	ohm-m
Shallow Laterolog K Factor	1.3273	
Deep Laterolog K Factor	0.8527	
Groningen Laterolog K Factor	0.8527	
Interference Rejection	50 Hz	
SP Connection	SP Bridle Electrode	
Groningen Connection	None	

SP Calibration MLE 016

Field Calibration on 3-OCT-2005,20:16

	Measured	Calibrated (mV)
Reference 1	93.1	100.0
Reference 2	-114.1	-100.0

Micro Laterolog Calibration MMR 005

Base Calibration on 24-AUG-2005 09:35
Field Check on 3-OCT-2005,20:16

Base Calibration

Measured		Calibrated (ohm-m)	
Ref 1	Ref 2	Ref 1	Ref 2
0.0	9744.7	0.0	196.0

Base Check (ohm-m)	Field Check (ohm-m)
8.1	8.0

Micro Laterolog Constants MMR 005

Micro Laterolog K Factor	0.0106
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Micro Laterolog R Factor
Standoff Offset

0.0196
0.0000 inches

COMPANY	ORIGIN ENERGY RESOURCES LIMITED
WELL	CHILDERS COVE 1
FIELD	ONSHORE OTWAY BASIN
PROVINCE/COUNTY	VICTORIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	51.50	metres	First Reading	2656.80	metres
Elevation Drill Floor		metres	Depth Driller	2658.00	metres
Elevation Ground Level	46.20	metres	Depth Logger	2656.80	metres



Compact

DLL - SLL - MLL - SONIC
DENSITY - NEUTRON
1:500