

**Weatherford****COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
LOG**

COMPANY

RUNNING FOXES PETROLEUM INC.

WELL

CHI-CHI 1-1 SWD

FIELD

CHI-CHI

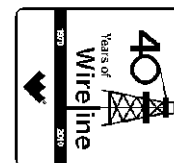
PROVINCE/COUNTY

BOURBON

COUNTRY/STATE

U.S.A. / KANSAS

LOCATION

760' FNL & 1175' FEL
NW SW NE SE

SEC

TWP
1
25SRGE
23EOther Services
MFE/MAI

API Number 15-011-23942

Permit Number

Permanent Datum GL, Elevation 873 feet

Log Measured From KB

Drilling Measured From

Elevations:
KB 878.00
DF 876.00
GL 873.00

Date 19-APR-2012

Run Number ONE

Depth Driller 1903.00 feet

Depth Logger 1903.00 feet

First Reading 1884.00 feet

Last Reading 50.00 feet

Casing Driller 21.00 feet

Casing Logger 21.00 feet

Bit Size 7.875 inches

Hole Fluid Type GEL

Density / Viscosity 8.90 lb/USg 40.00 CP

PH / Fluid Loss

Sample Source MUD PIT

Rm @ Measured Temp 1.20 @ 81.0 ohm-m

Rmf @ Measured Temp 0.96 @ 81.0 ohm-m

Rmc @ Measured Temp 1.44 @ 81.0 ohm-m

Source Rmf / Rmc CALC CALC

Rm @ BHT 1.11 @ 87.0 ohm-m

Time Since Circulation 3 HOURS

Max Recorded Temp 87.00 deg F

Equipment Name COMPACT

Equipment / Base 13226 OKC

Recorded By B. ALLEN

Witnessed By K. HODGES

C. COUNTS

BOREHOLE RECORD

Last Edited: 19-APR-2012 18:41

Bit Size
inches

7.875

Depth From
feet

21.00

Depth To
feet

1903.00

CASING RECORD

Type

Size
inches

8.625

Depth From
feet

0.00

Shoe Depth
feet

21.00

Weight
pounds/ft

36.00

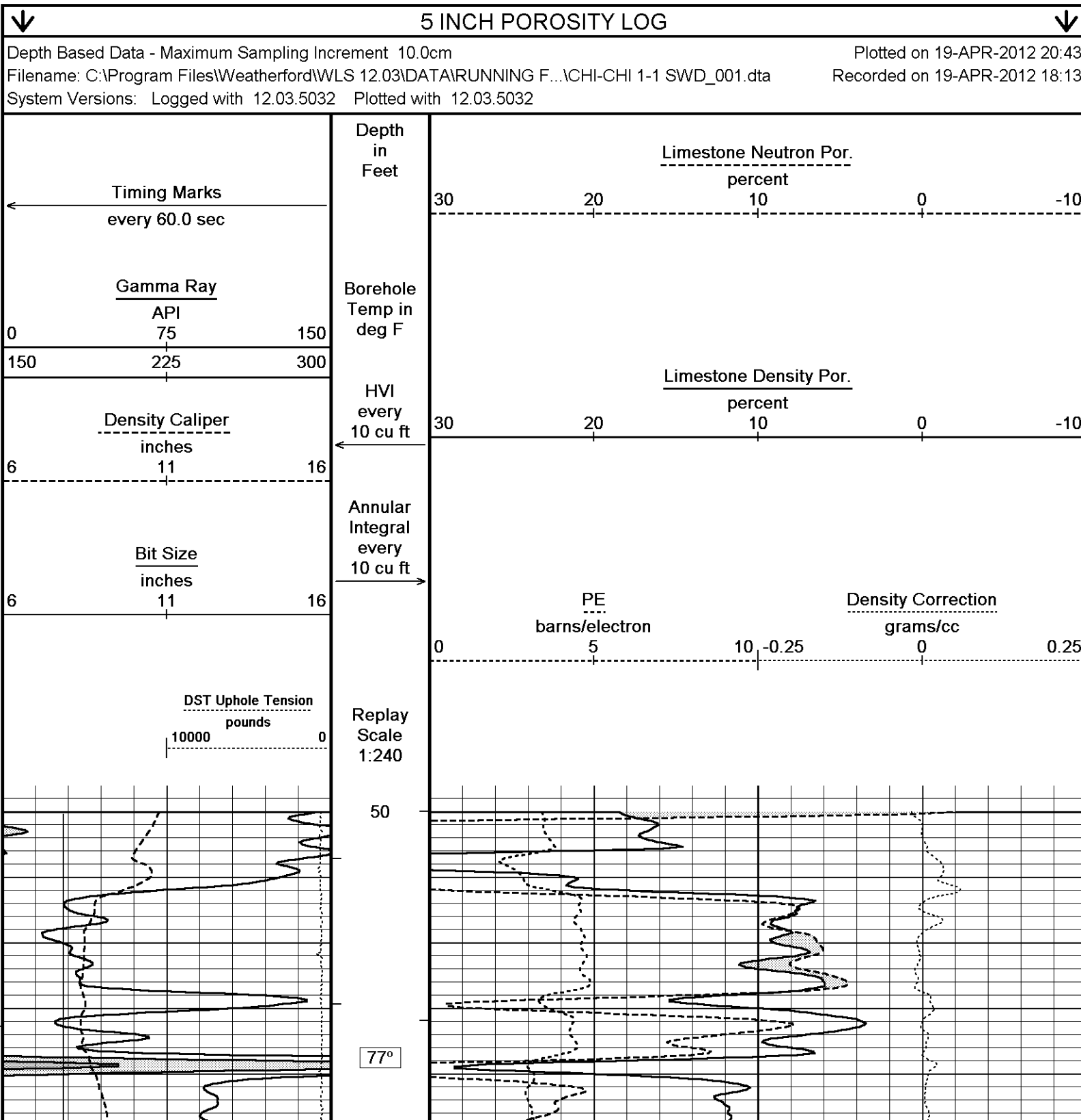
REMARKSTOOLS RAN:
MCG, MDN, MPD, MFE, MAI RAN IN COMBINATIONHARDWARE:
MAI: TWO 0.5 INCH STANDOFFS USED
MDN: DUAL NEUTRON BOW SPRINGS USED
MPD: 8 INCH PROFILE PLATE USED
MFE: ONE 0.5 INCH STANDOFF USED2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 790 CU.FT.
ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING = 480 CU.FT.SERVICE ORDER:
3535126

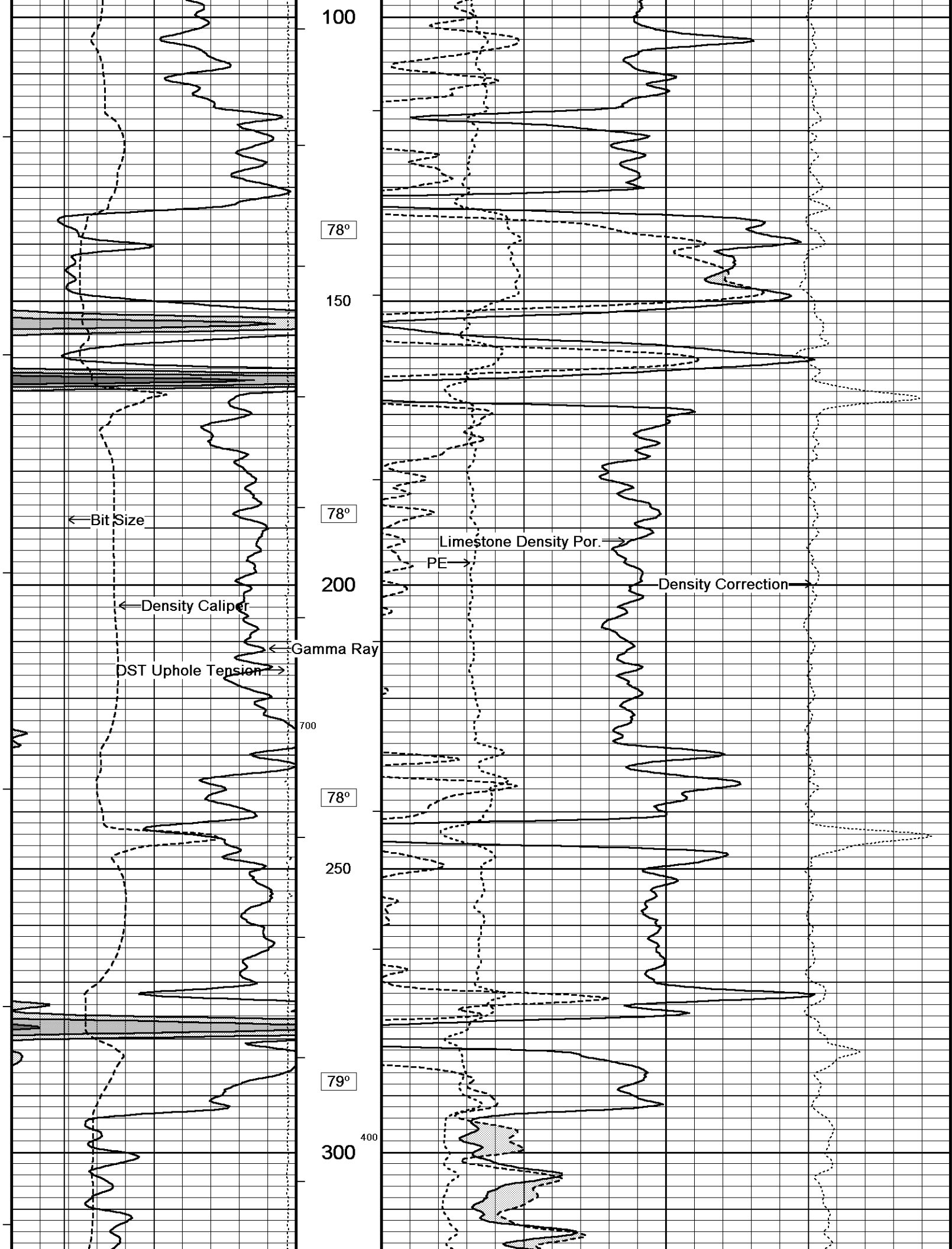
RIG:
HAT DRILLING #1

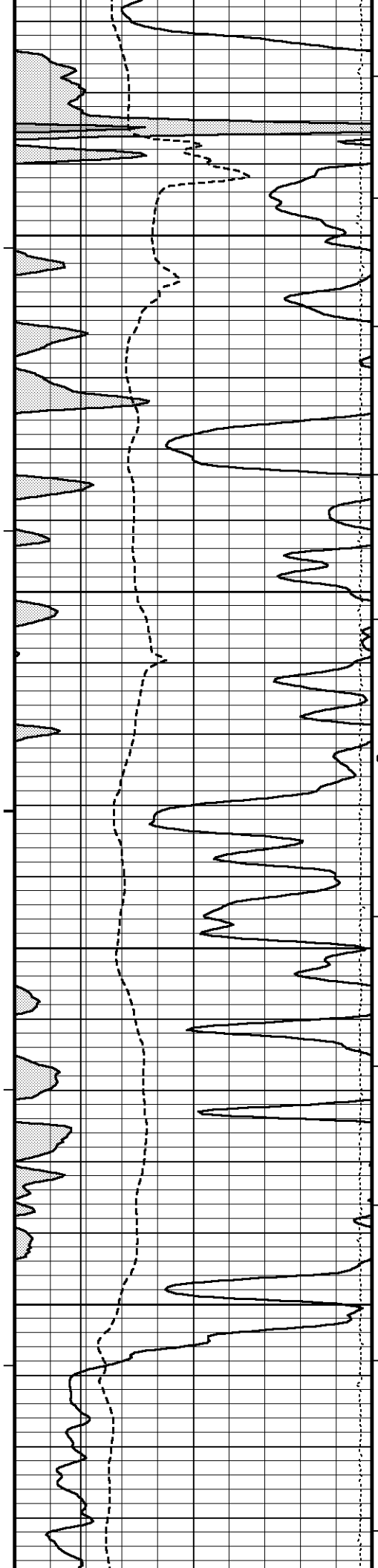
OPERATOR(S):
B. BALLINGER

MUD PROPERTIES:
LCM = 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.







79°

350

80°

400

600

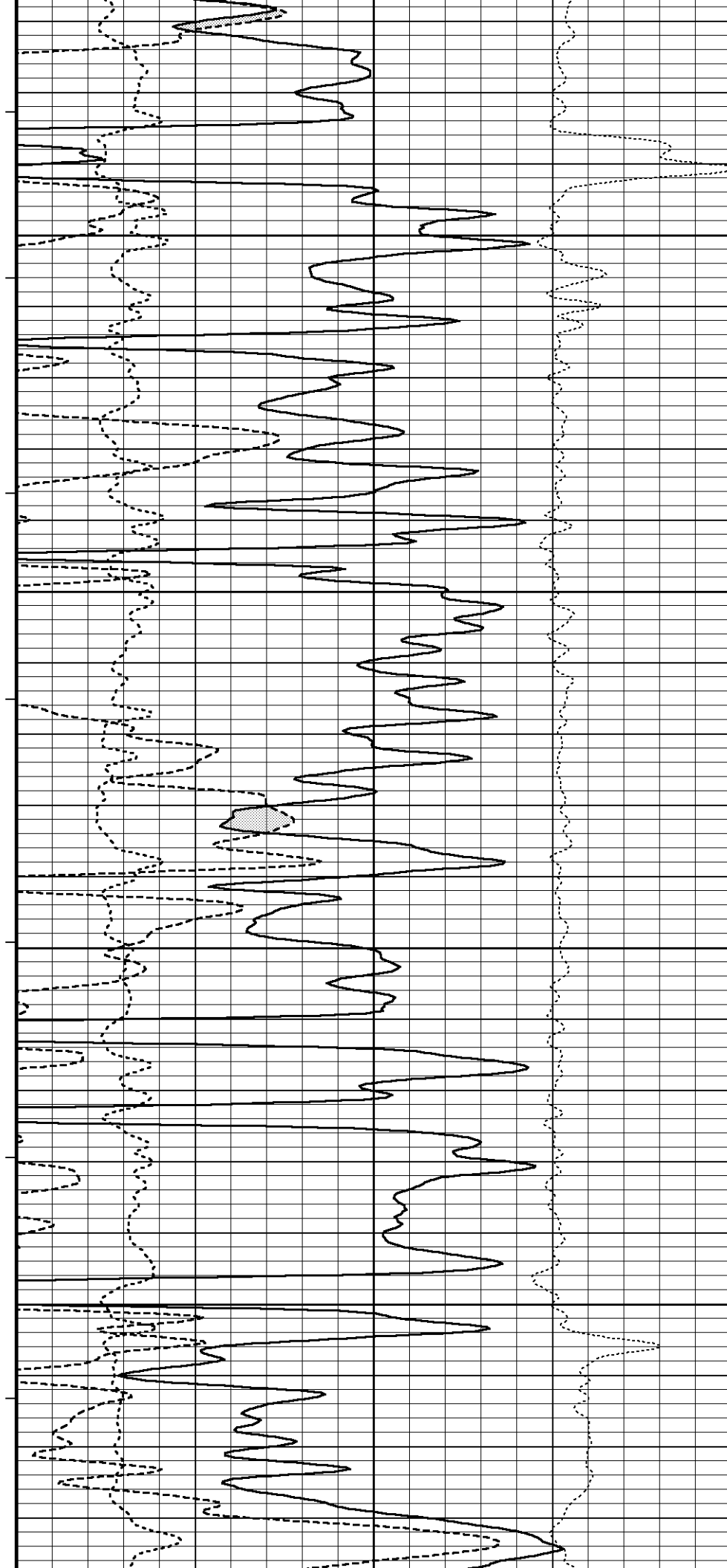
80°

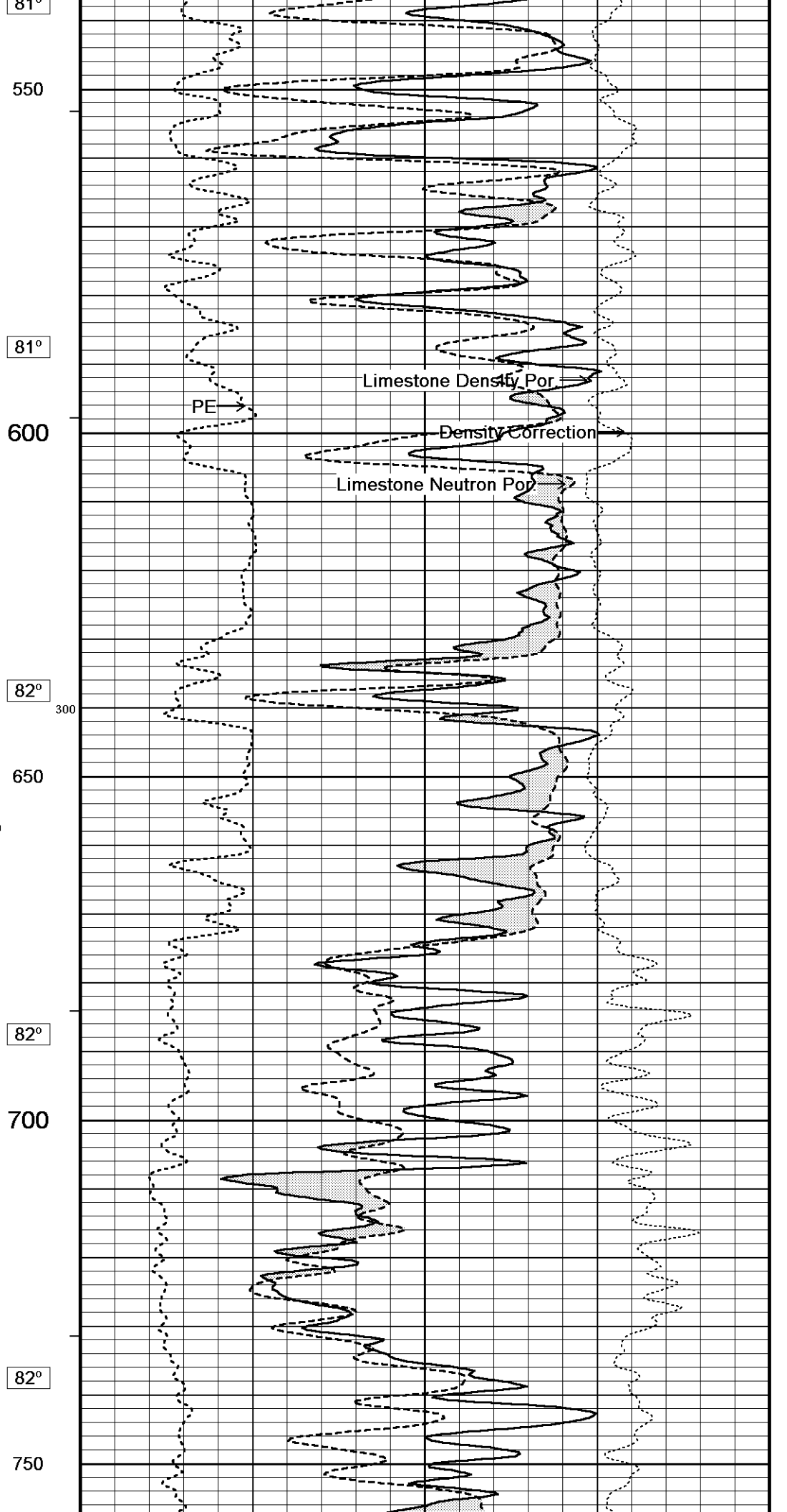
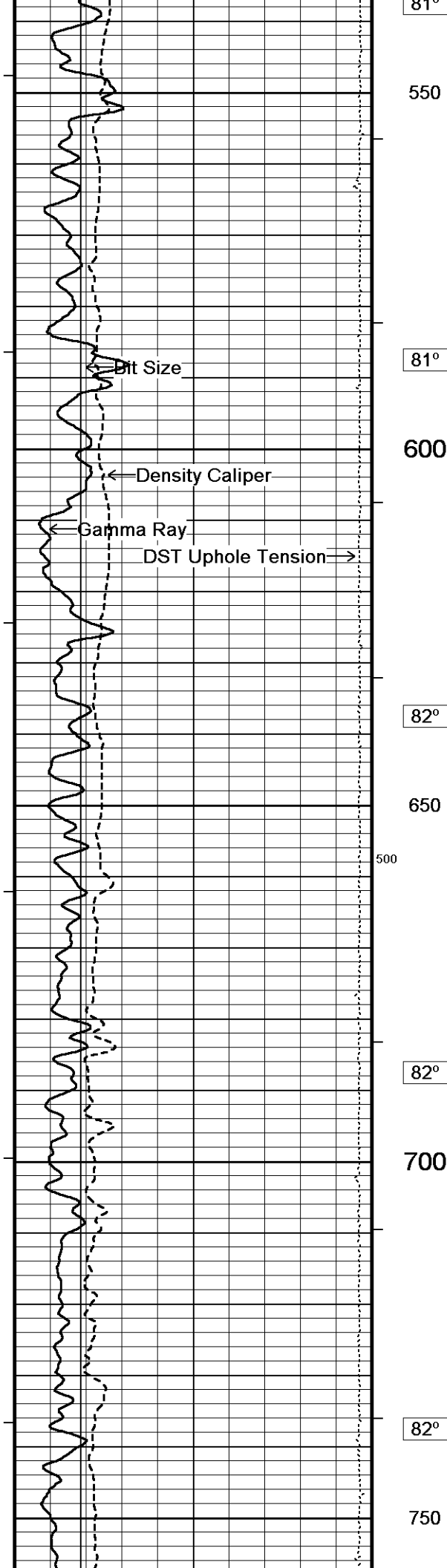
450

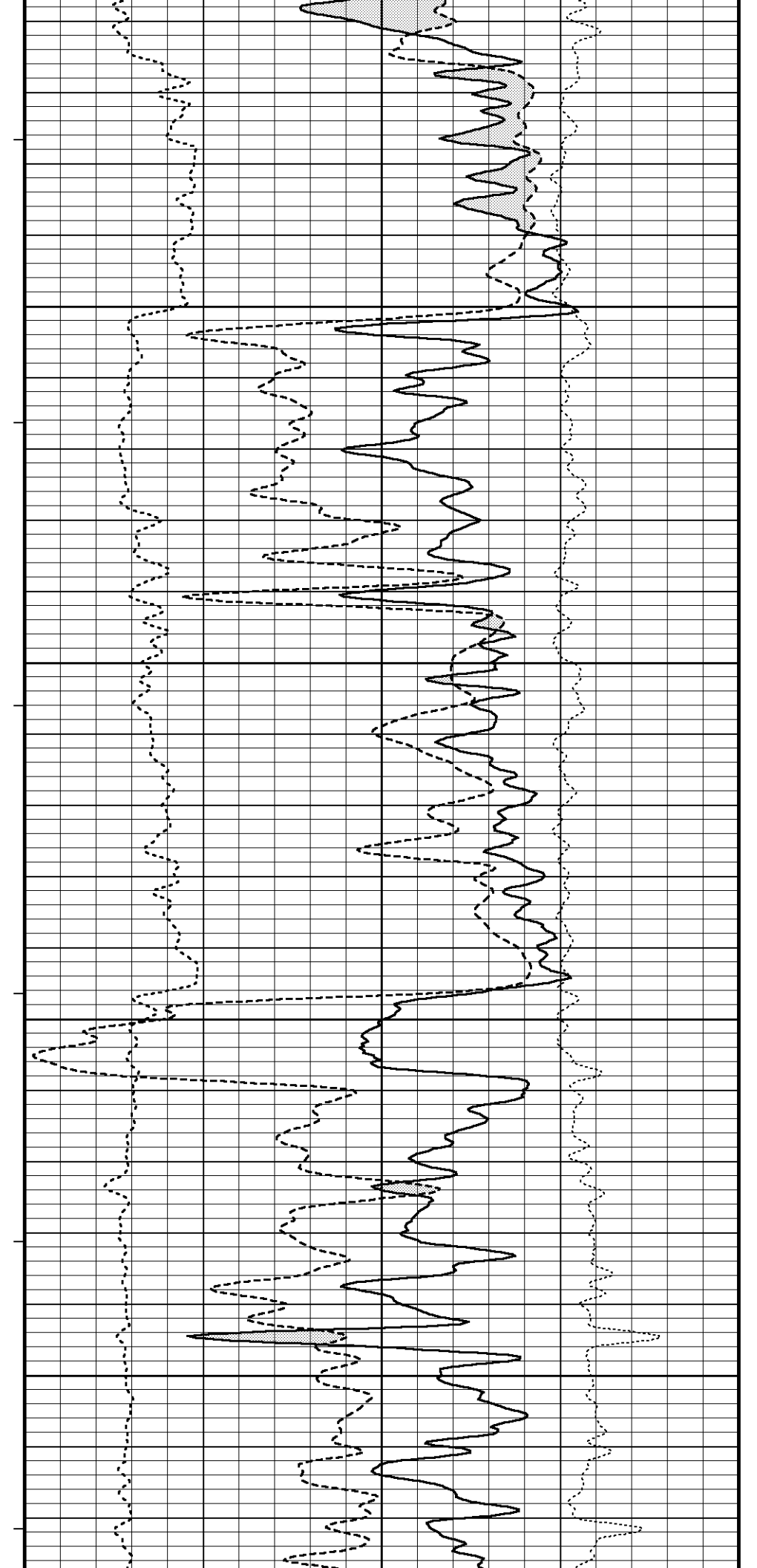
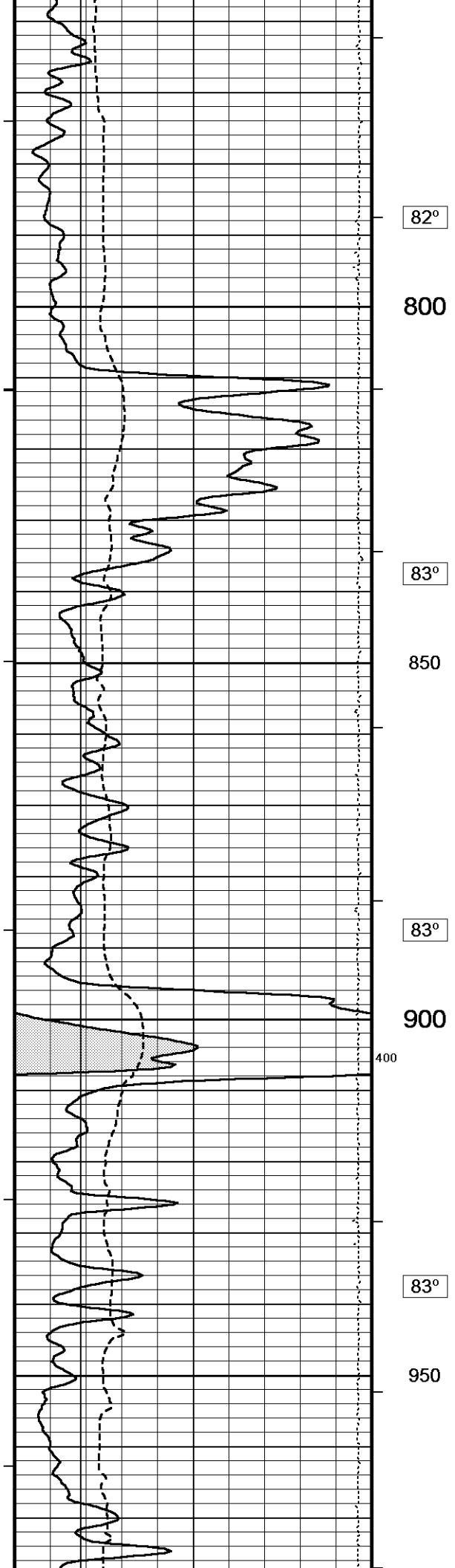
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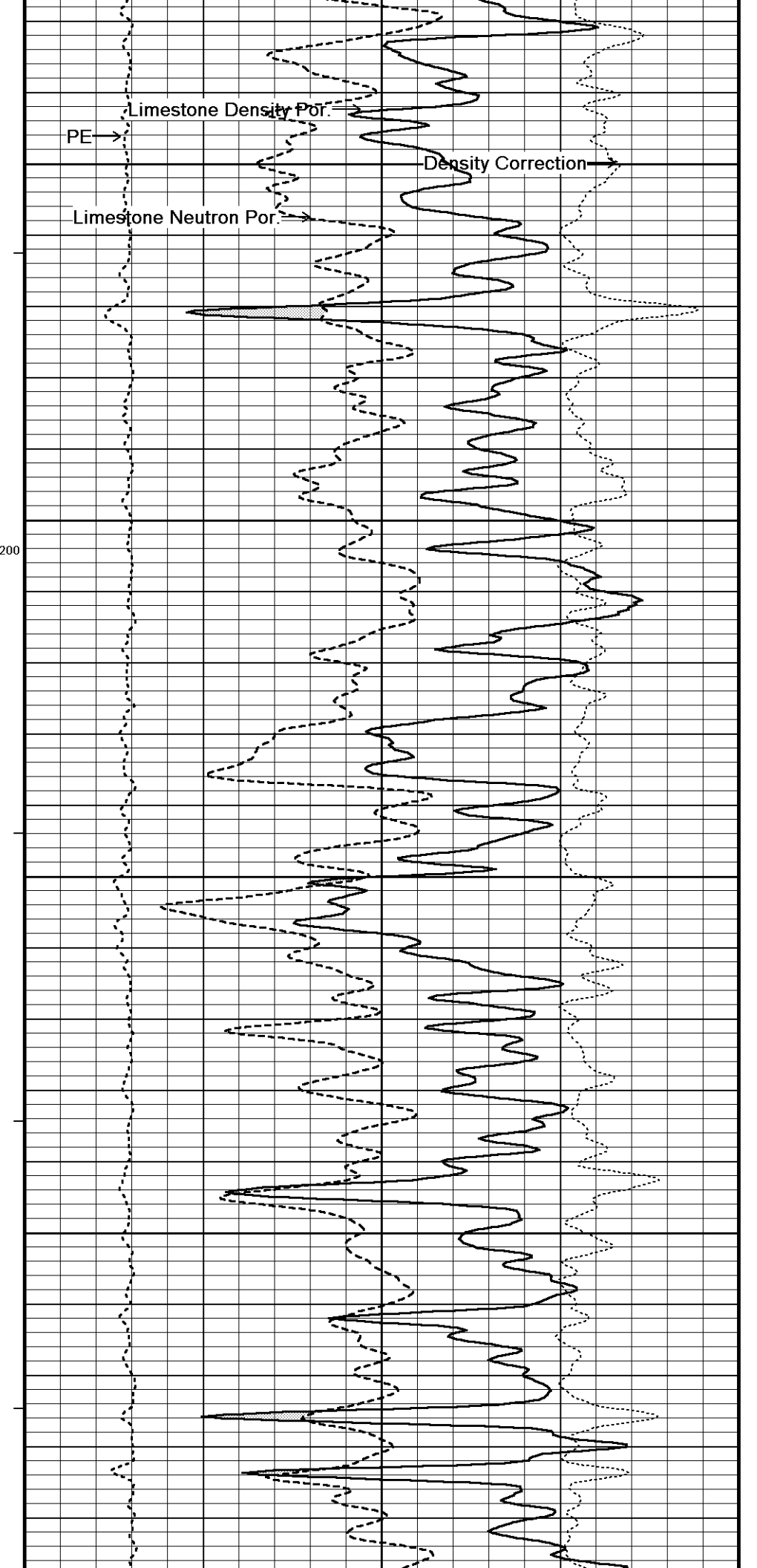
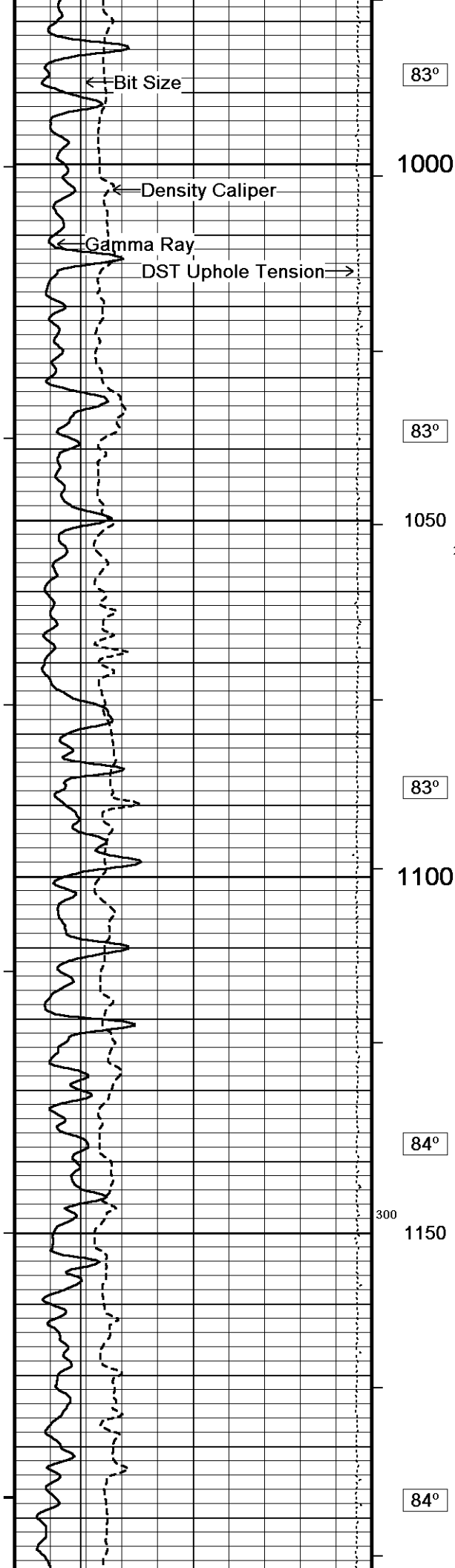
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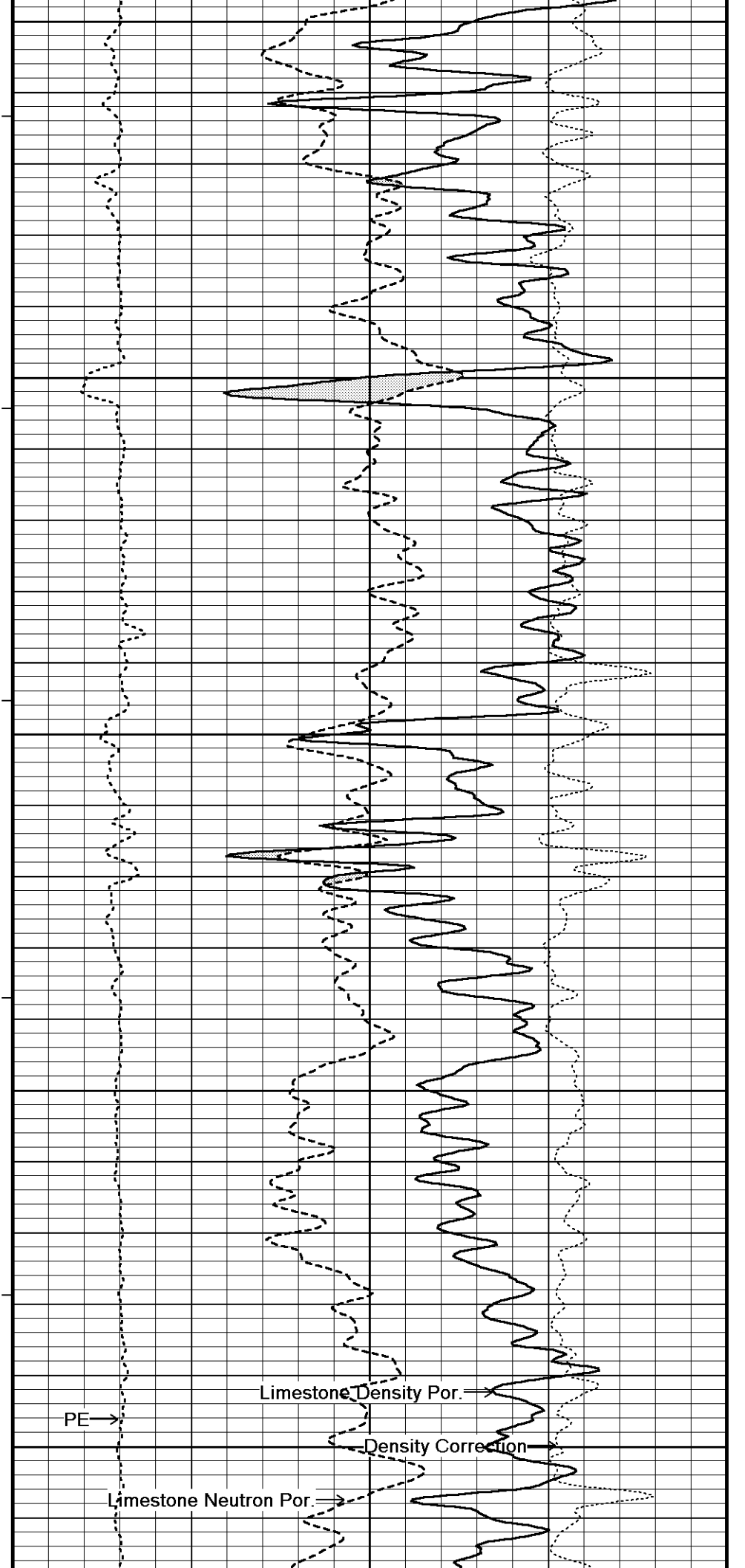
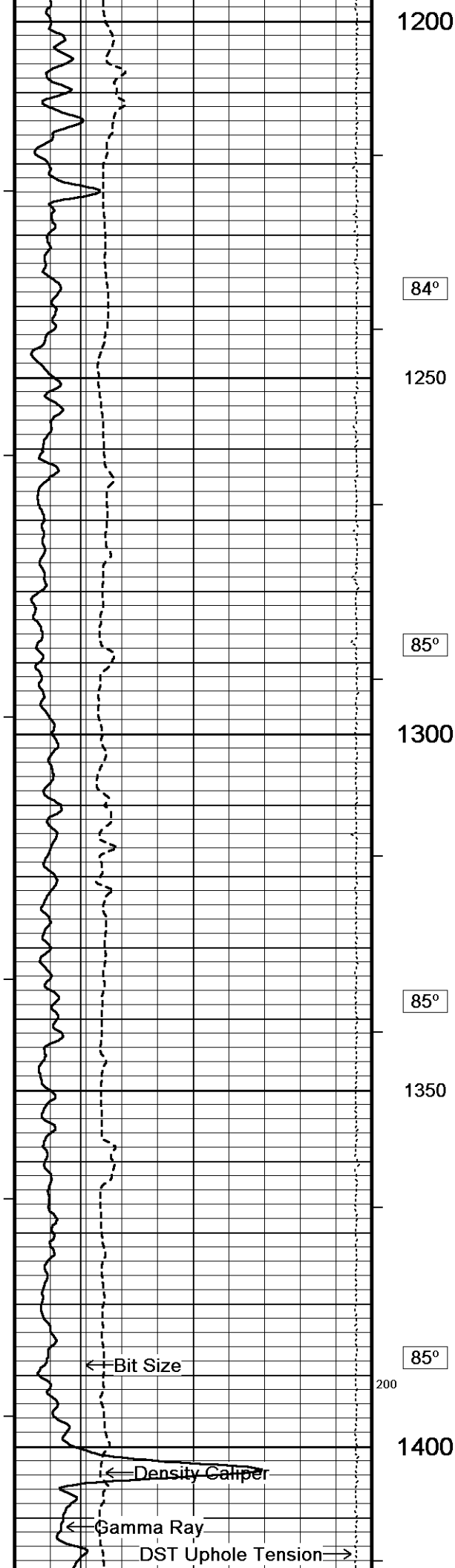
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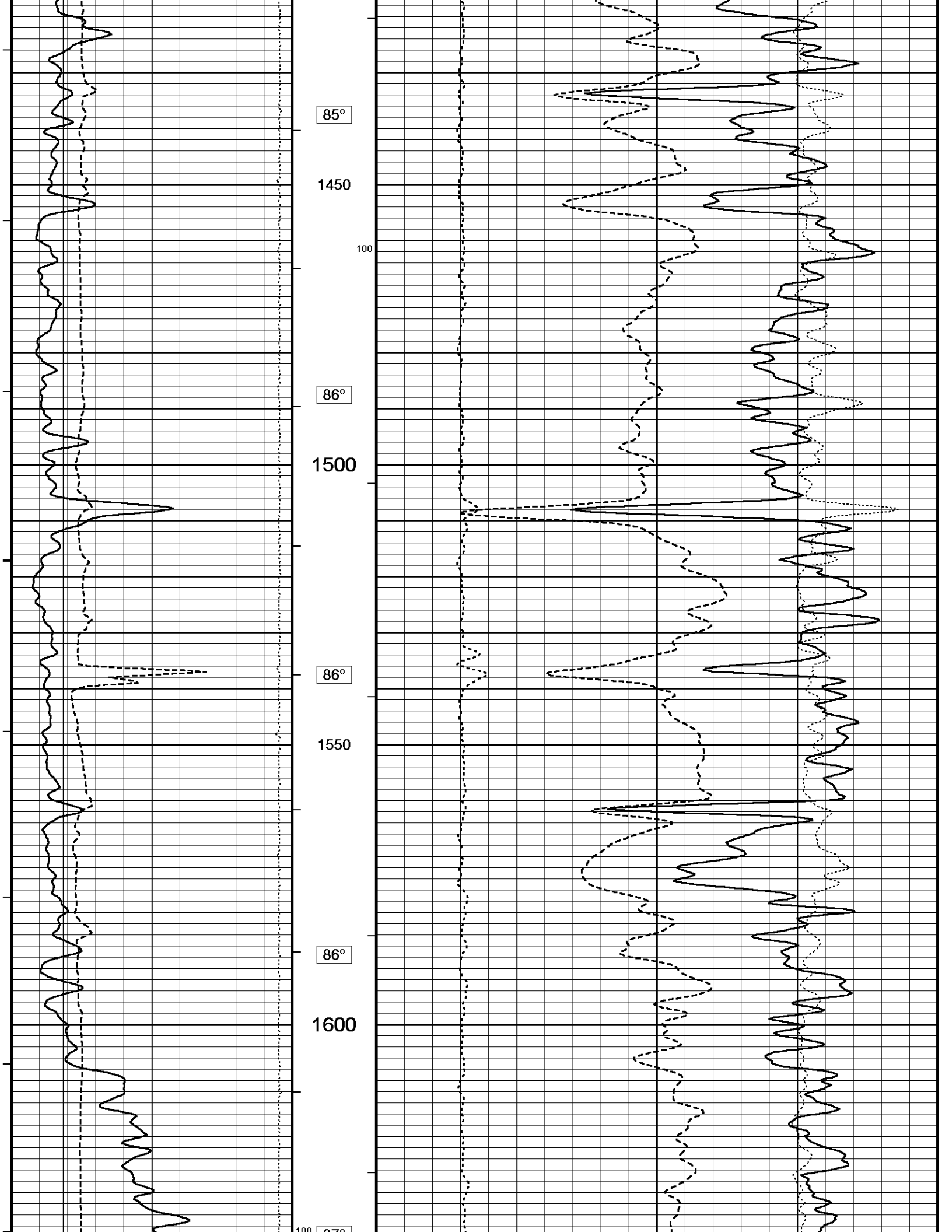


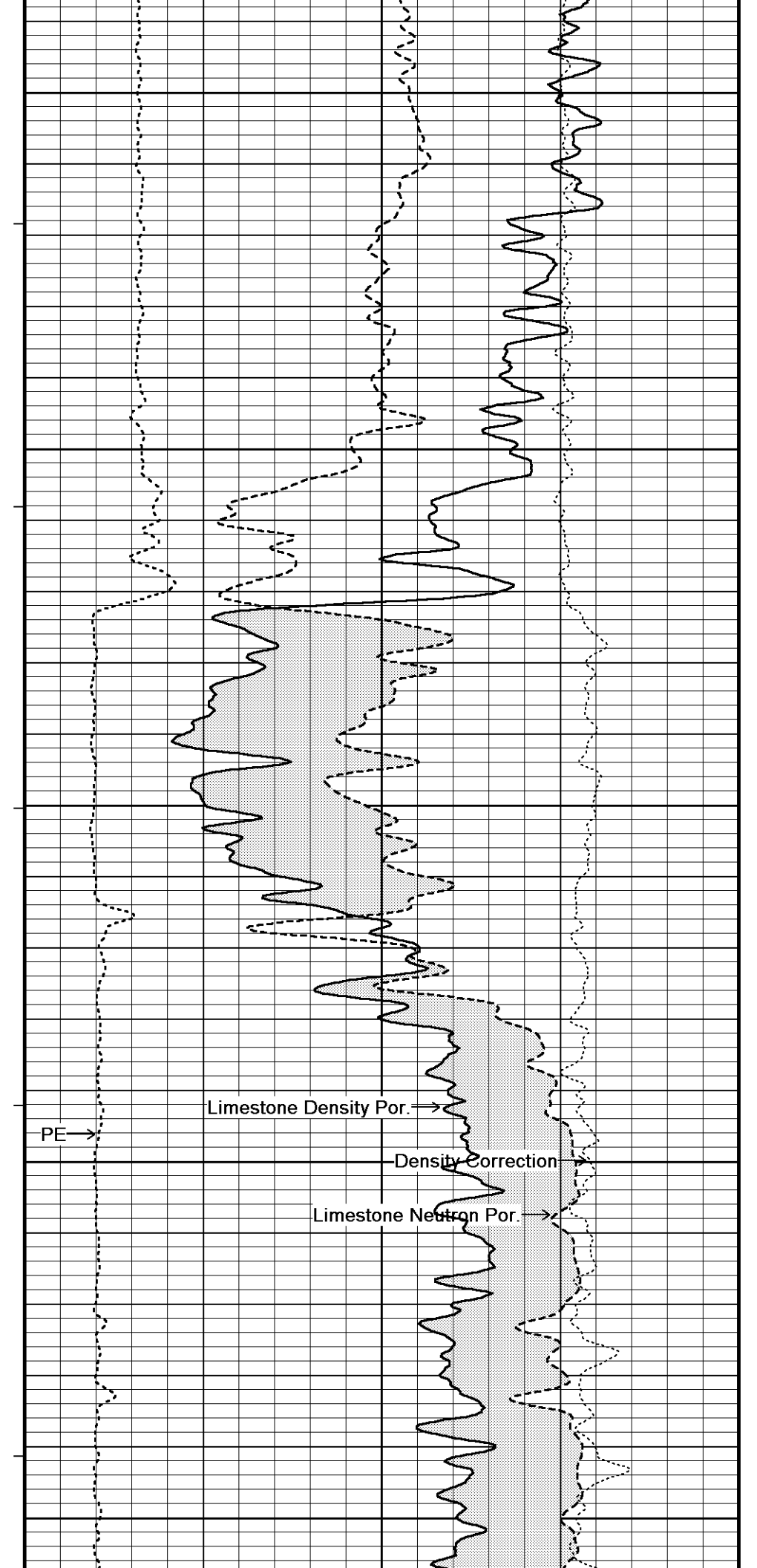
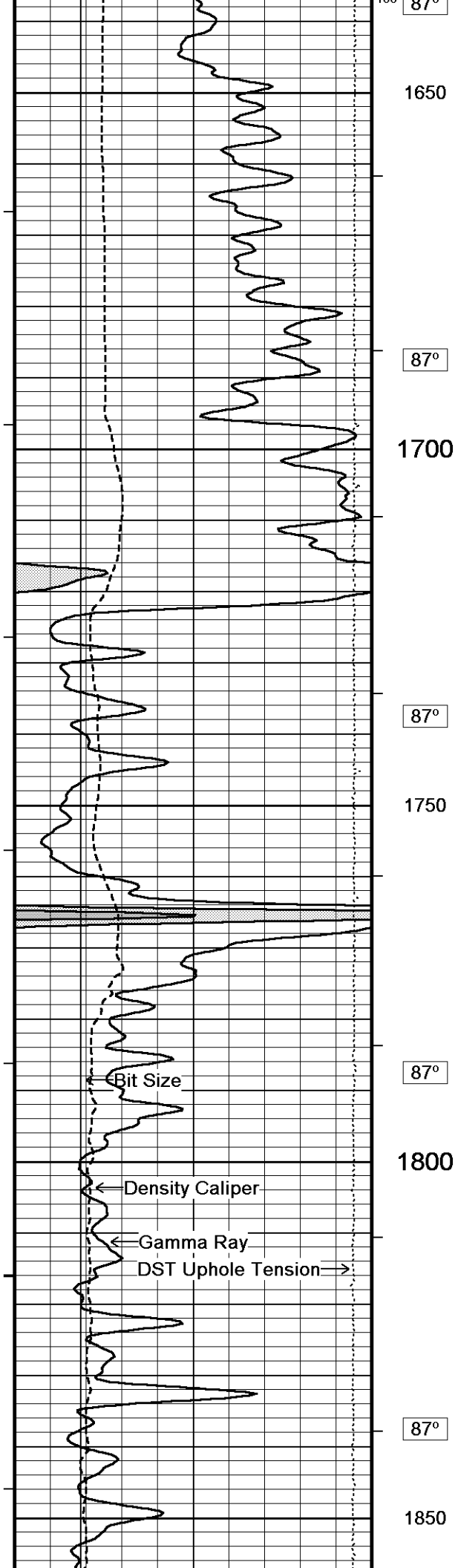


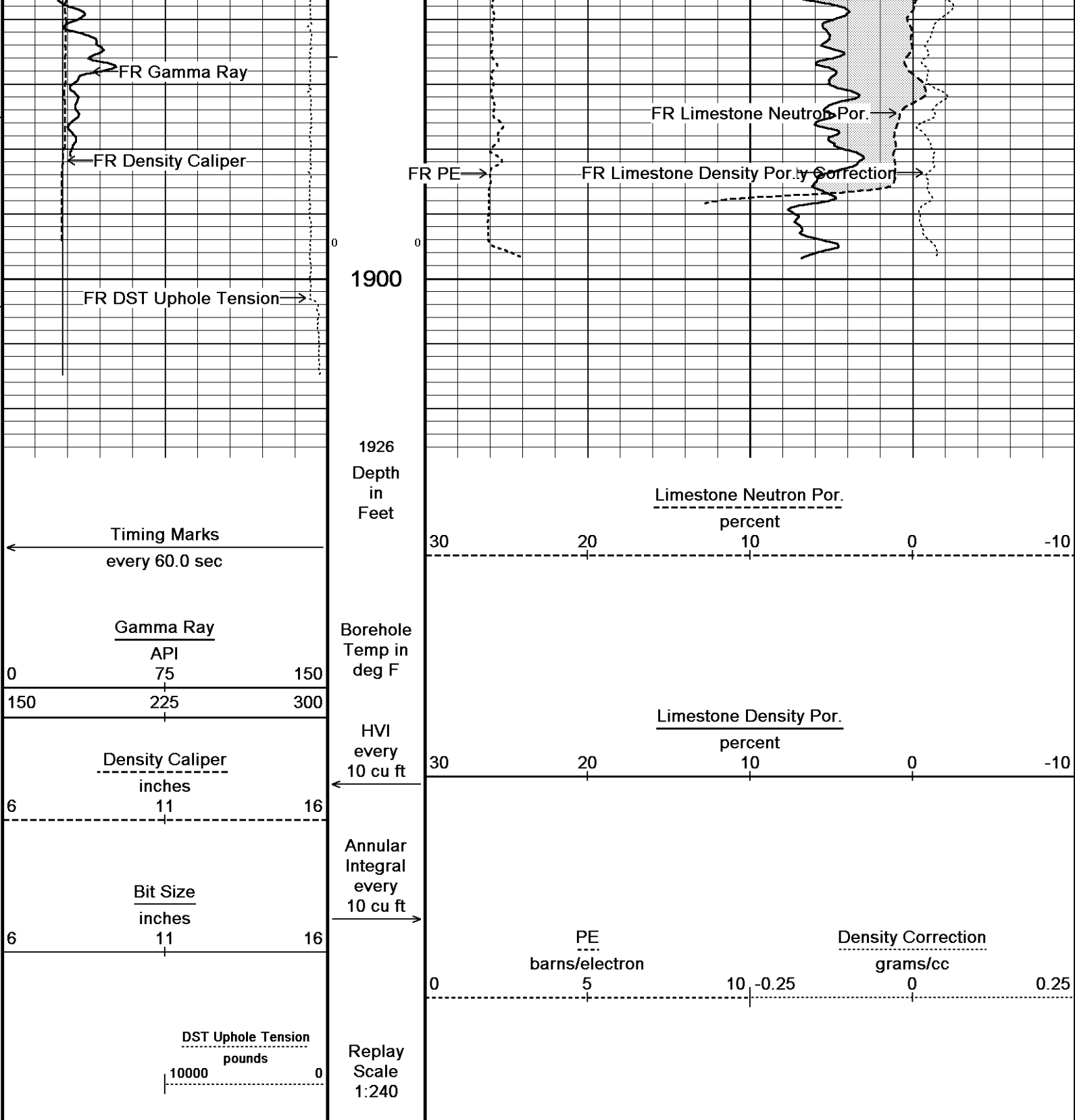










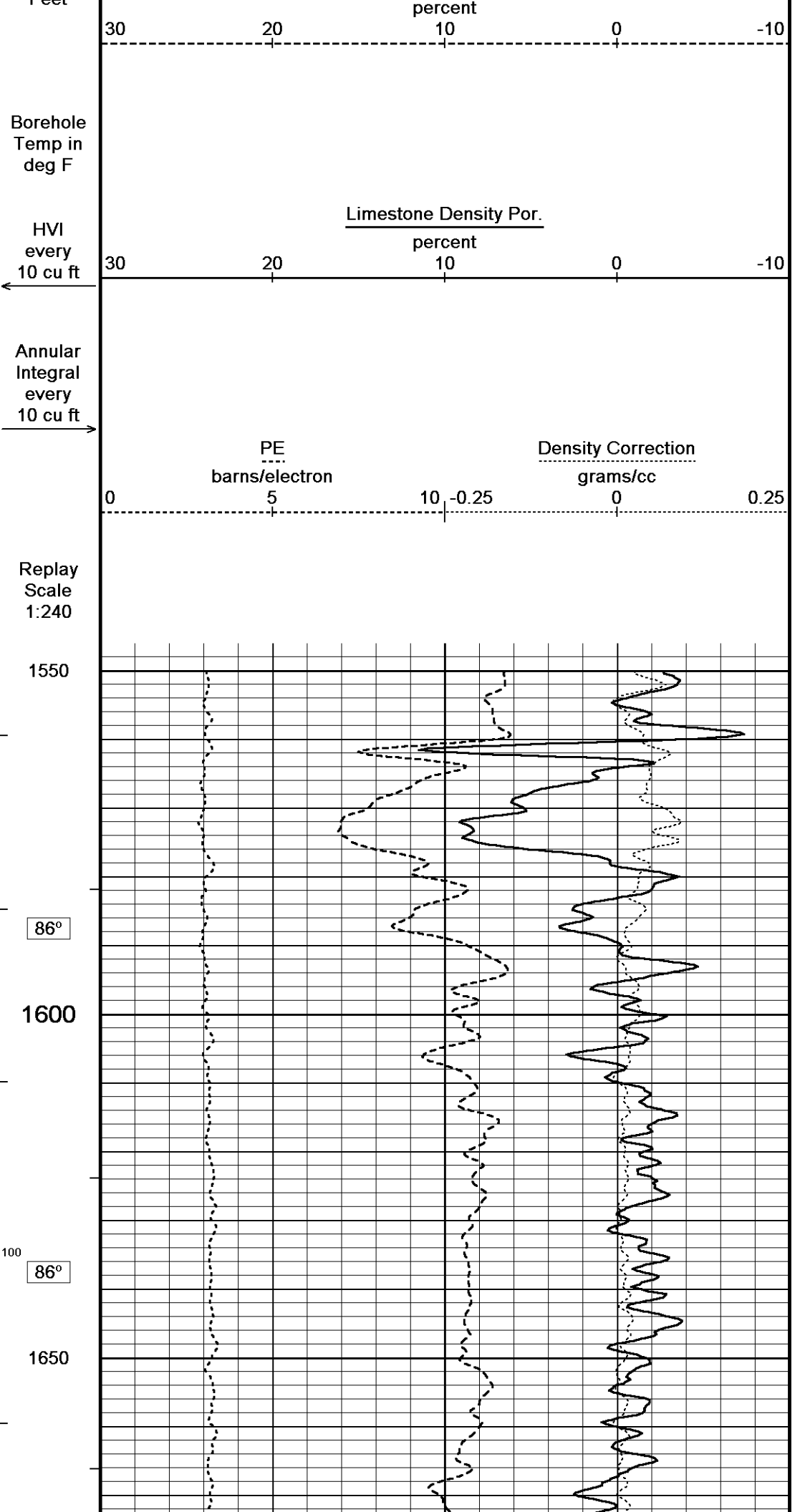
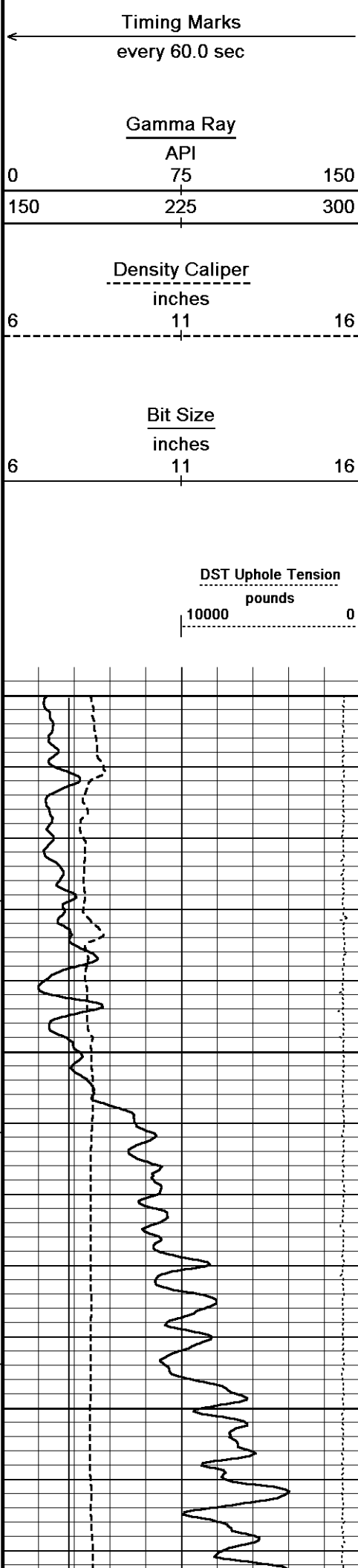


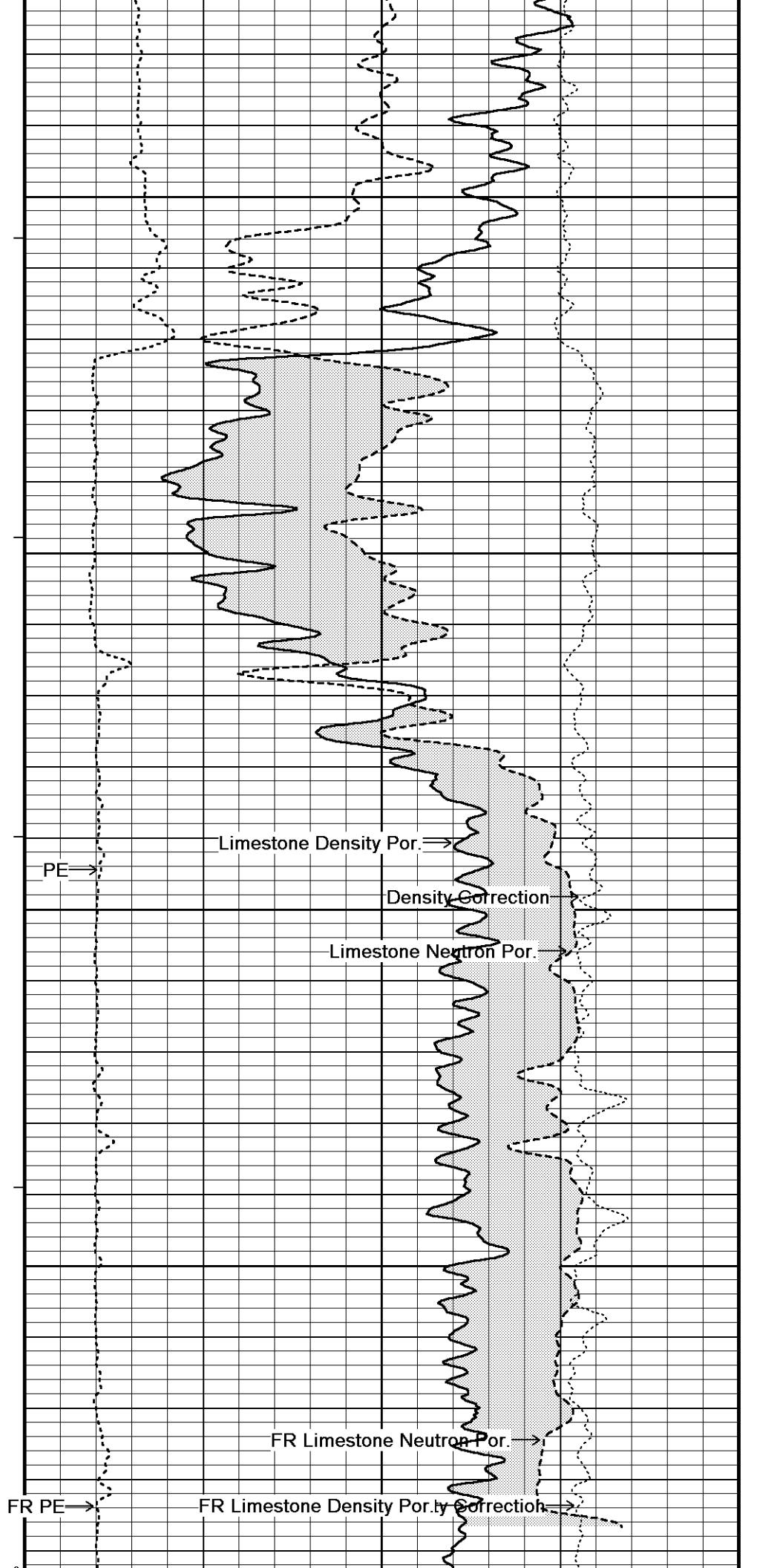
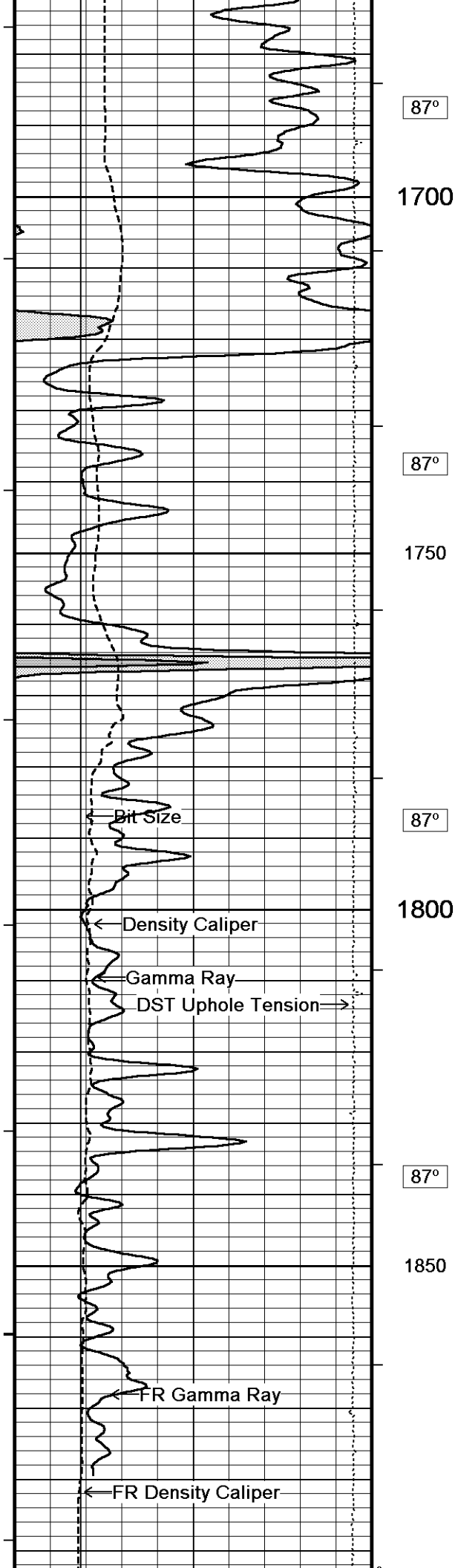
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\RUNNING F... \CHI-CHI 1-1 SWD_001.dta
System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

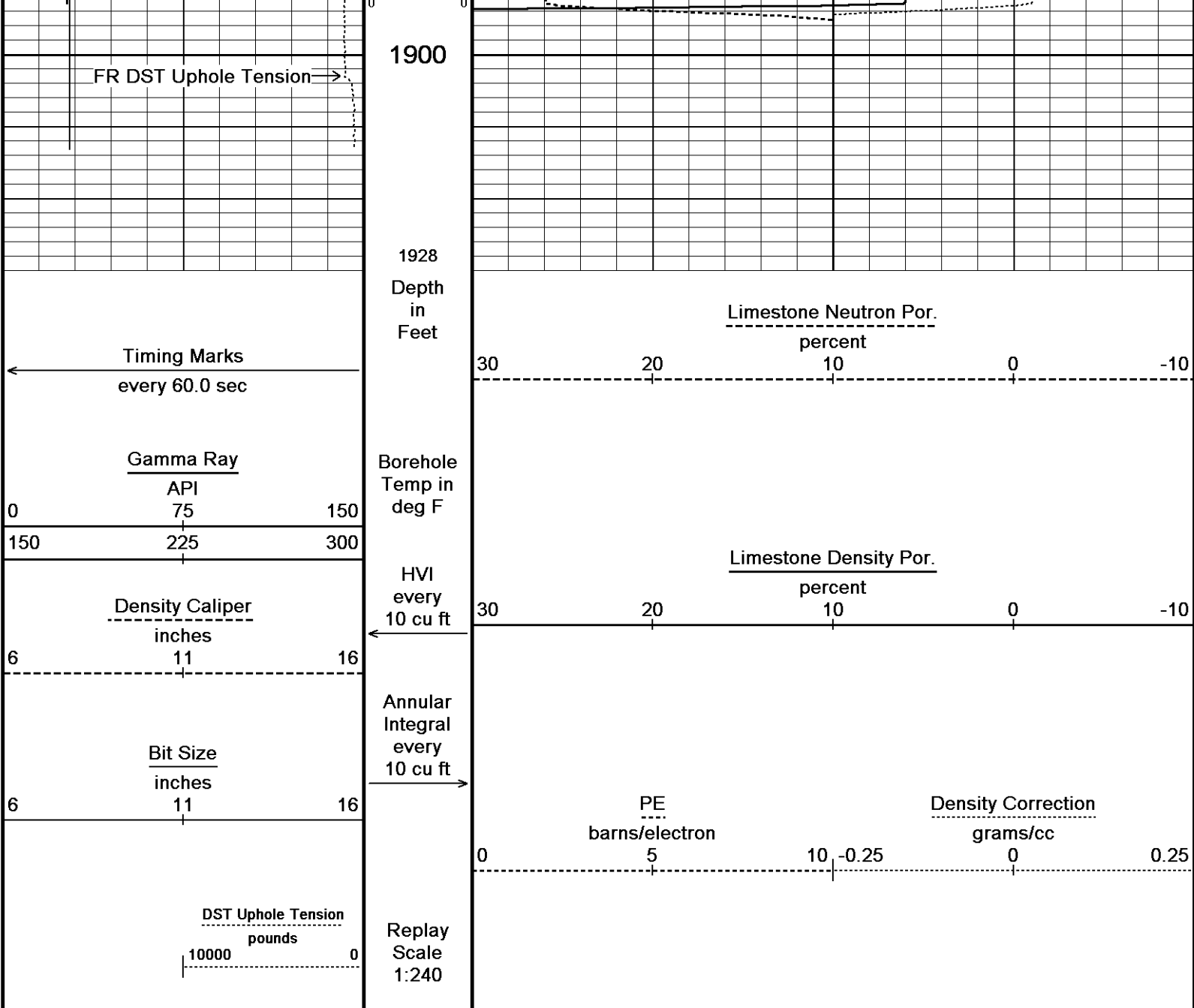
5 INCH POROSITY LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\RUNNING FOXES... \CHI-CHI 1-1 SWD.dta
System Versions: Logged with 12.03.5032 Plotted with 12.03.5032









Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 19-APR-2012 20:43

Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\RUNNING FOXES...\CHI-CHI 1-1 SWD.dta

Recorded on 19-APR-2012 17:52

System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

5 INCH REPEAT

5 INCH BULK DENSITY

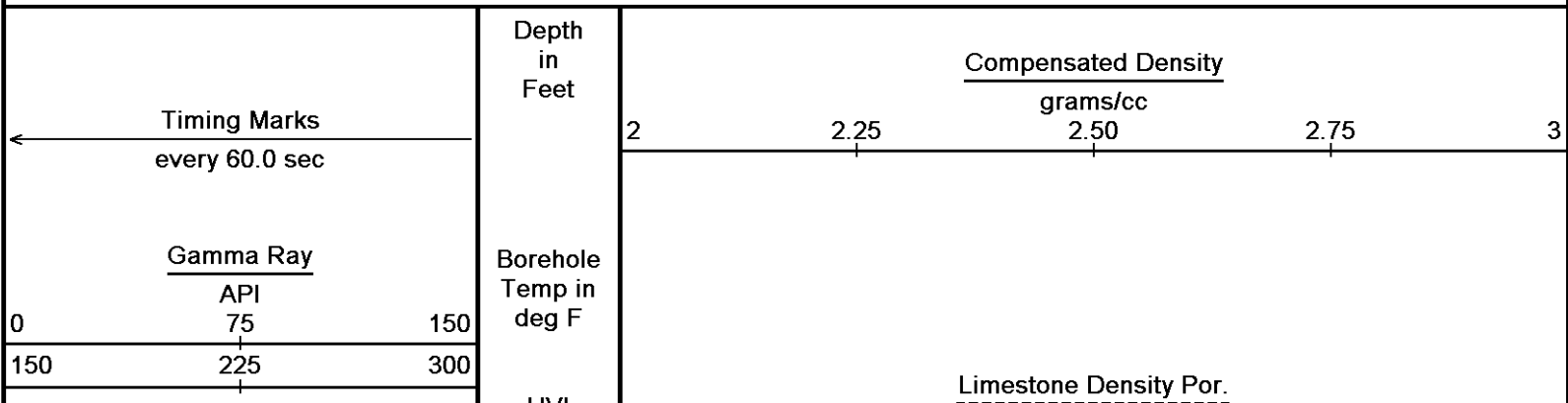
Depth Based Data - Maximum Sampling Increment 10.0cm

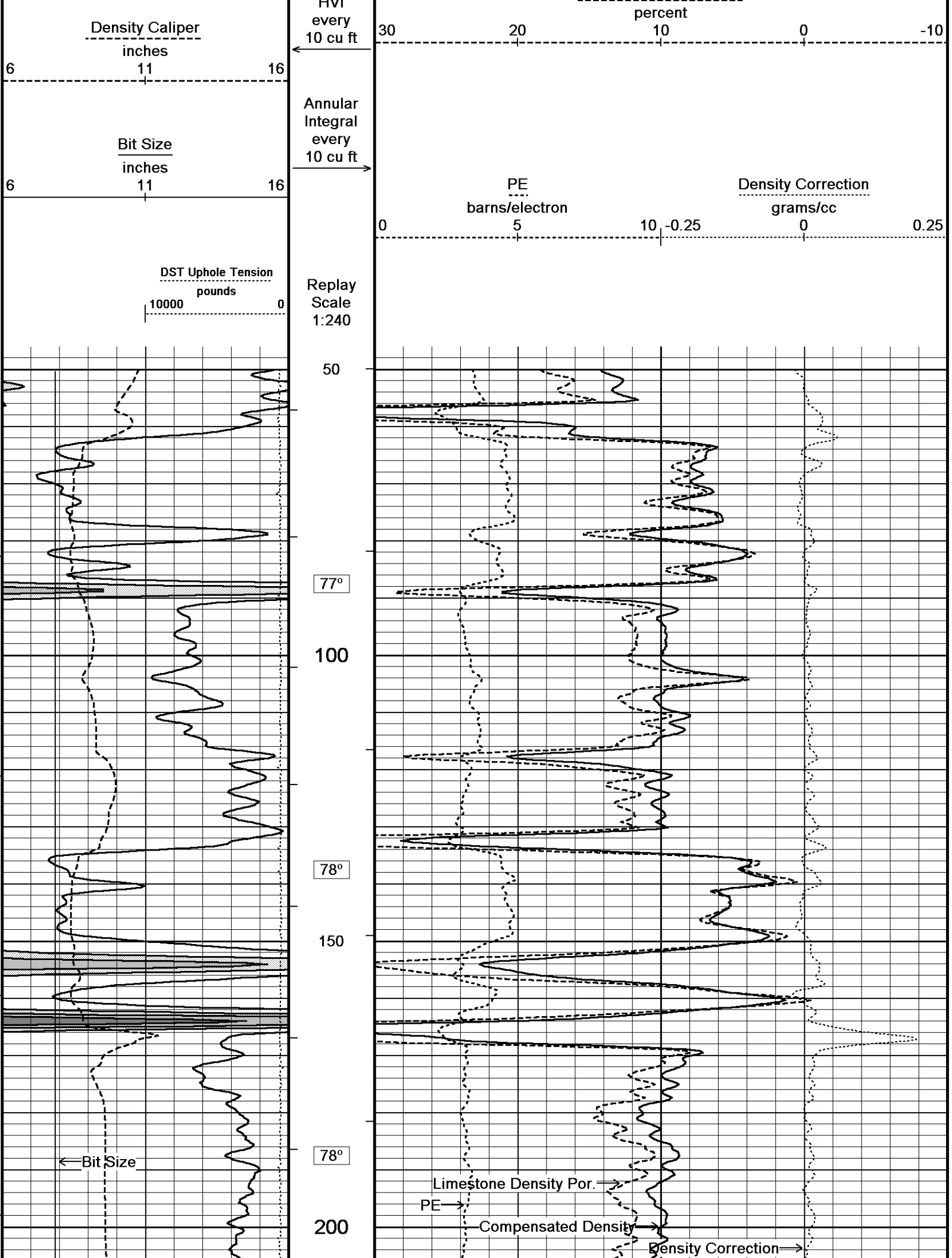
Plotted on 19-APR-2012 20:43

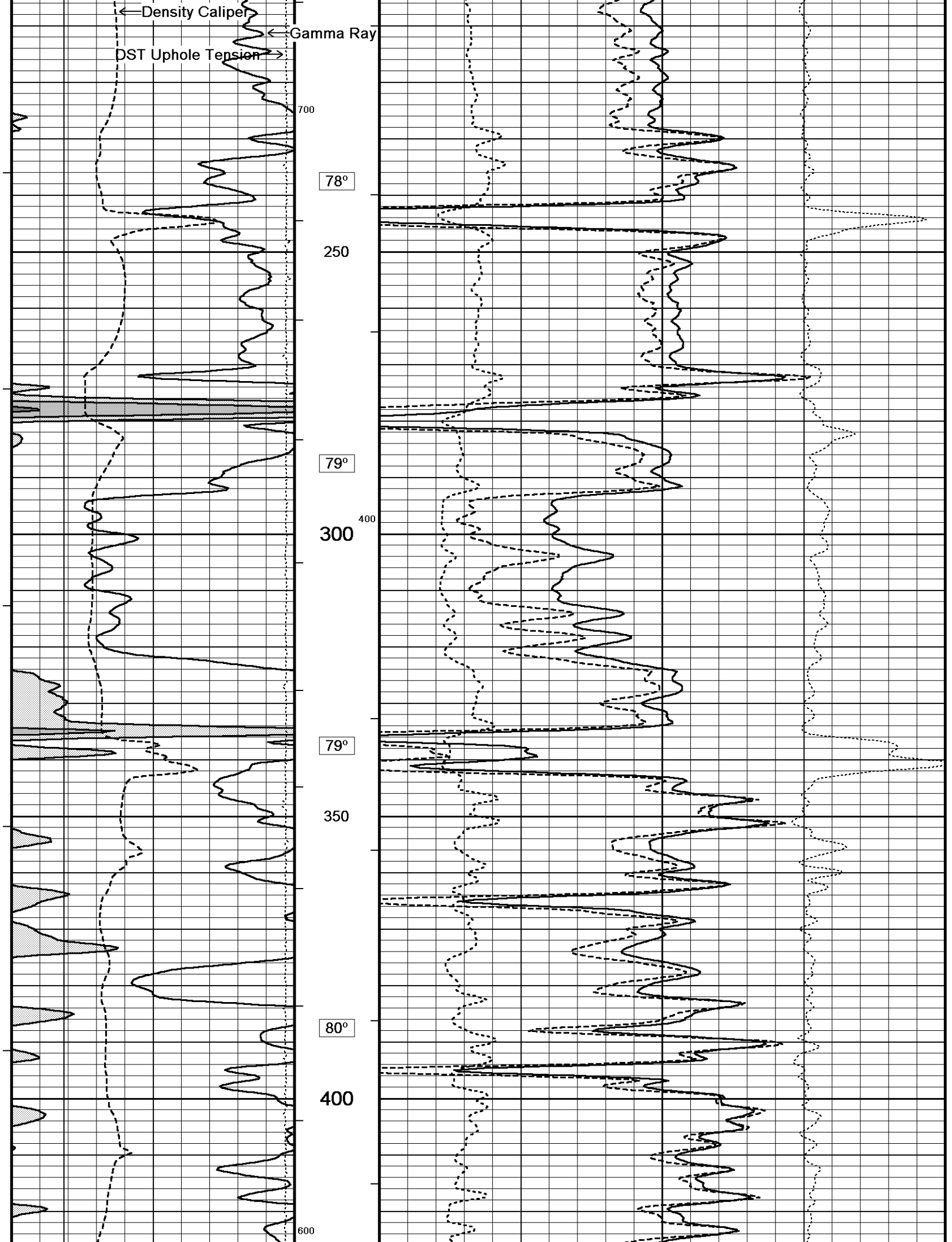
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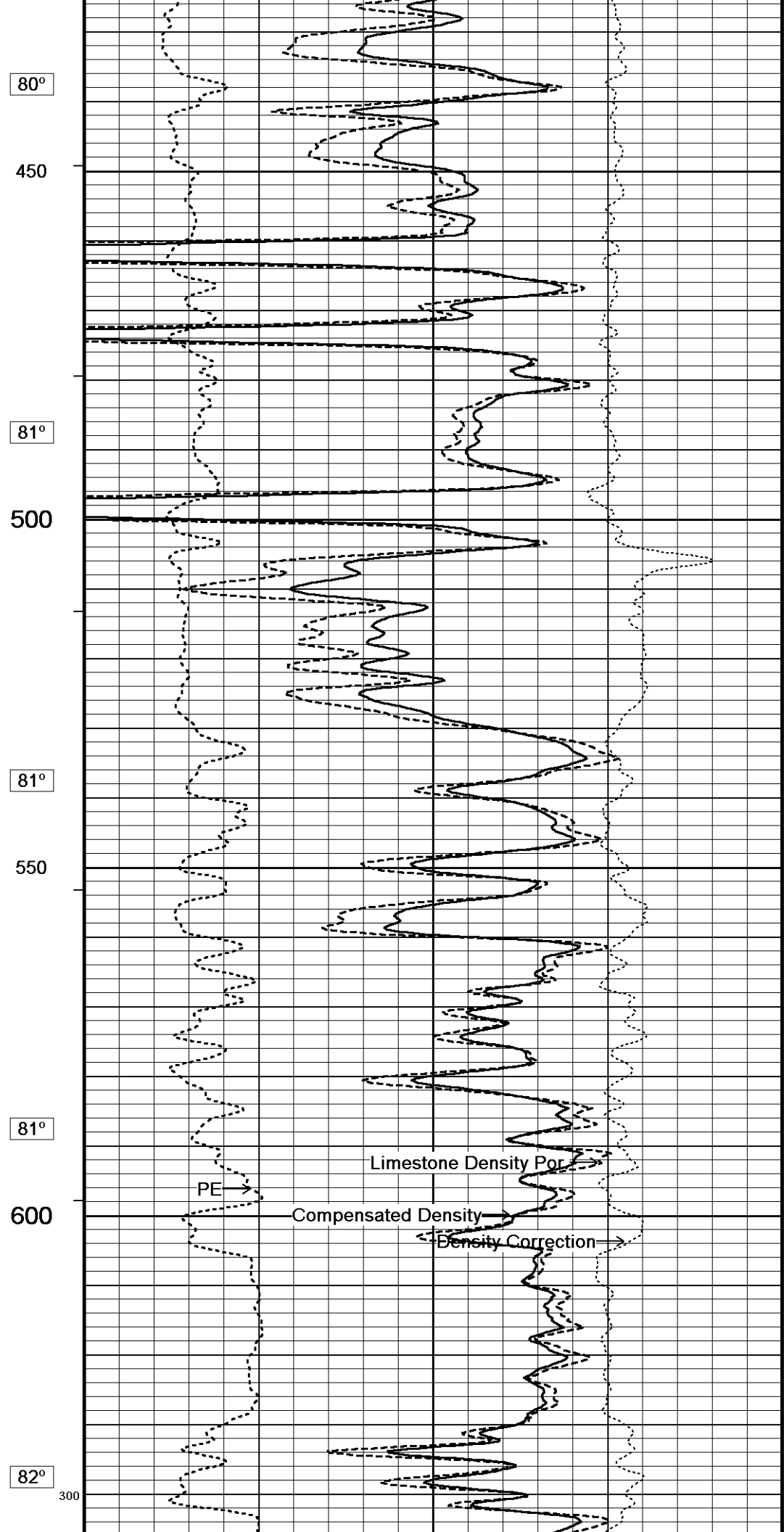
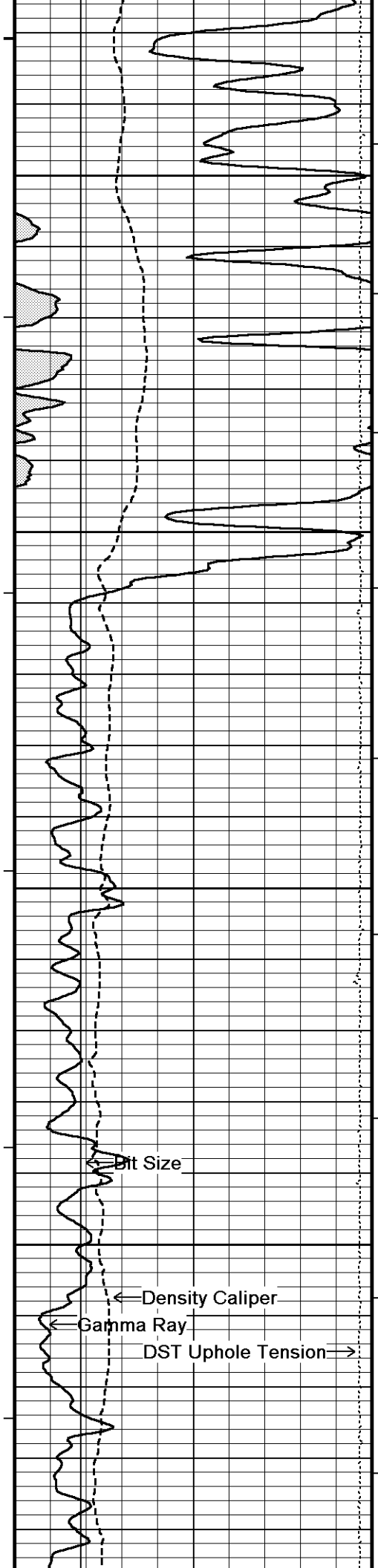
Recorded on 19-APR-2012 18:13

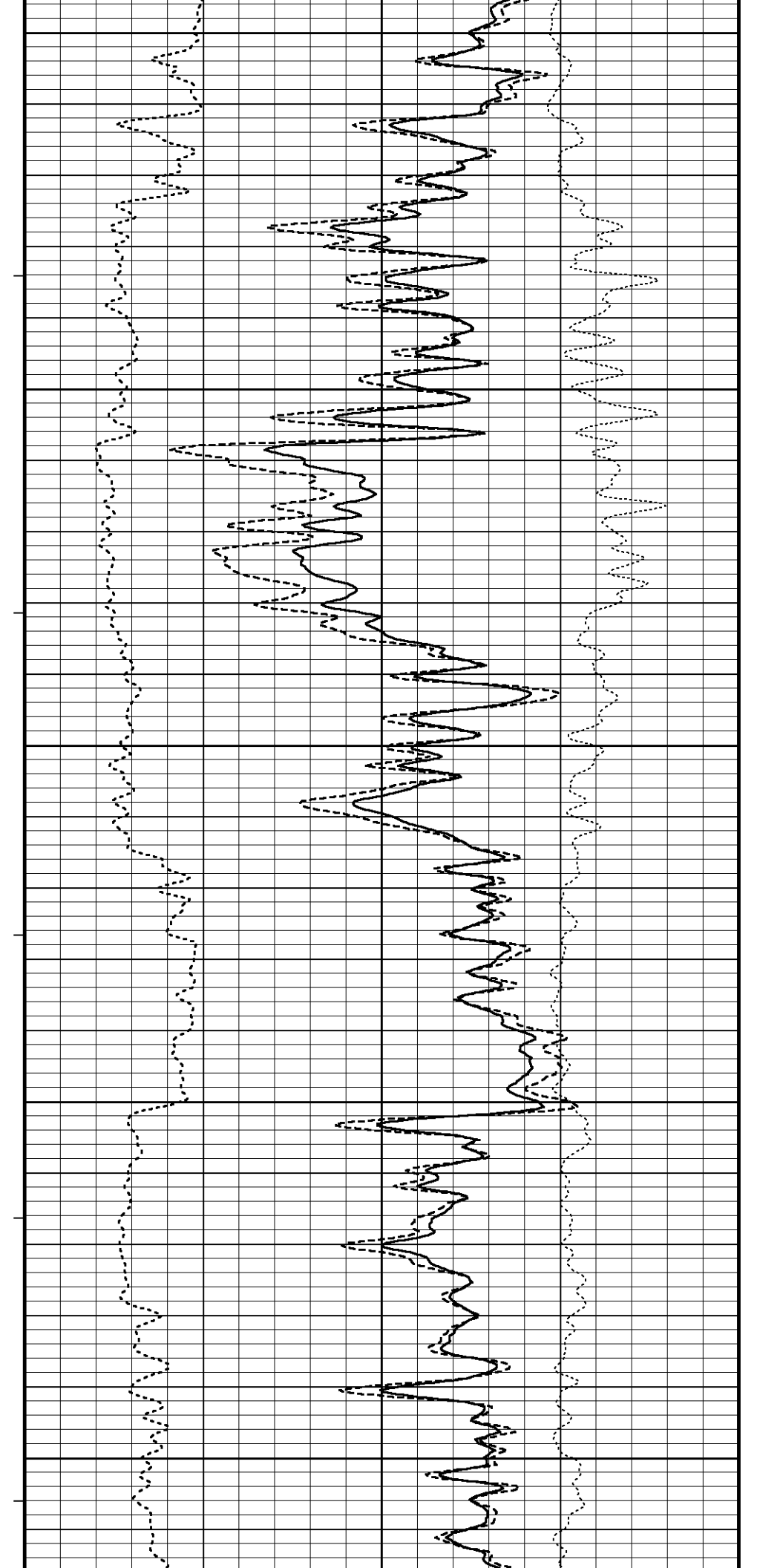
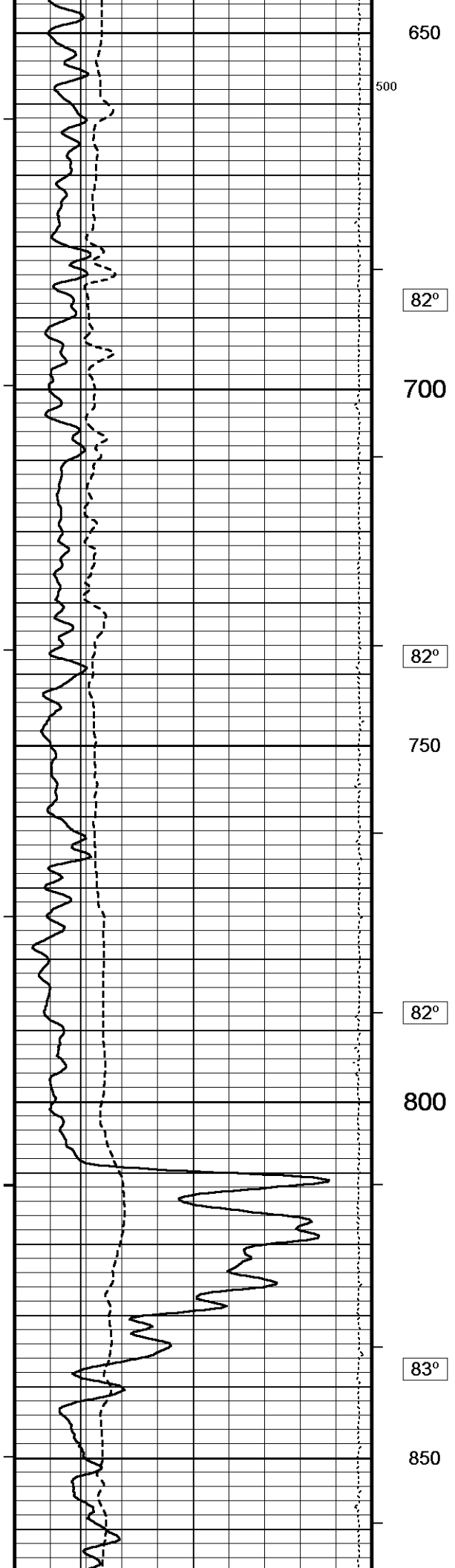
System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

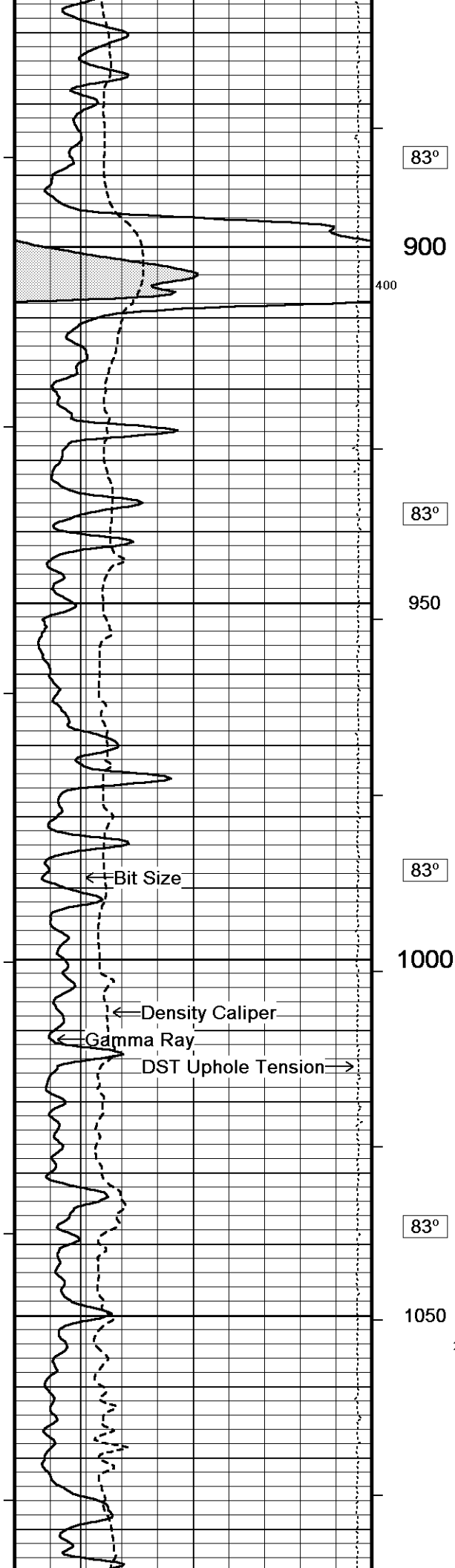












83°

900

83°

950

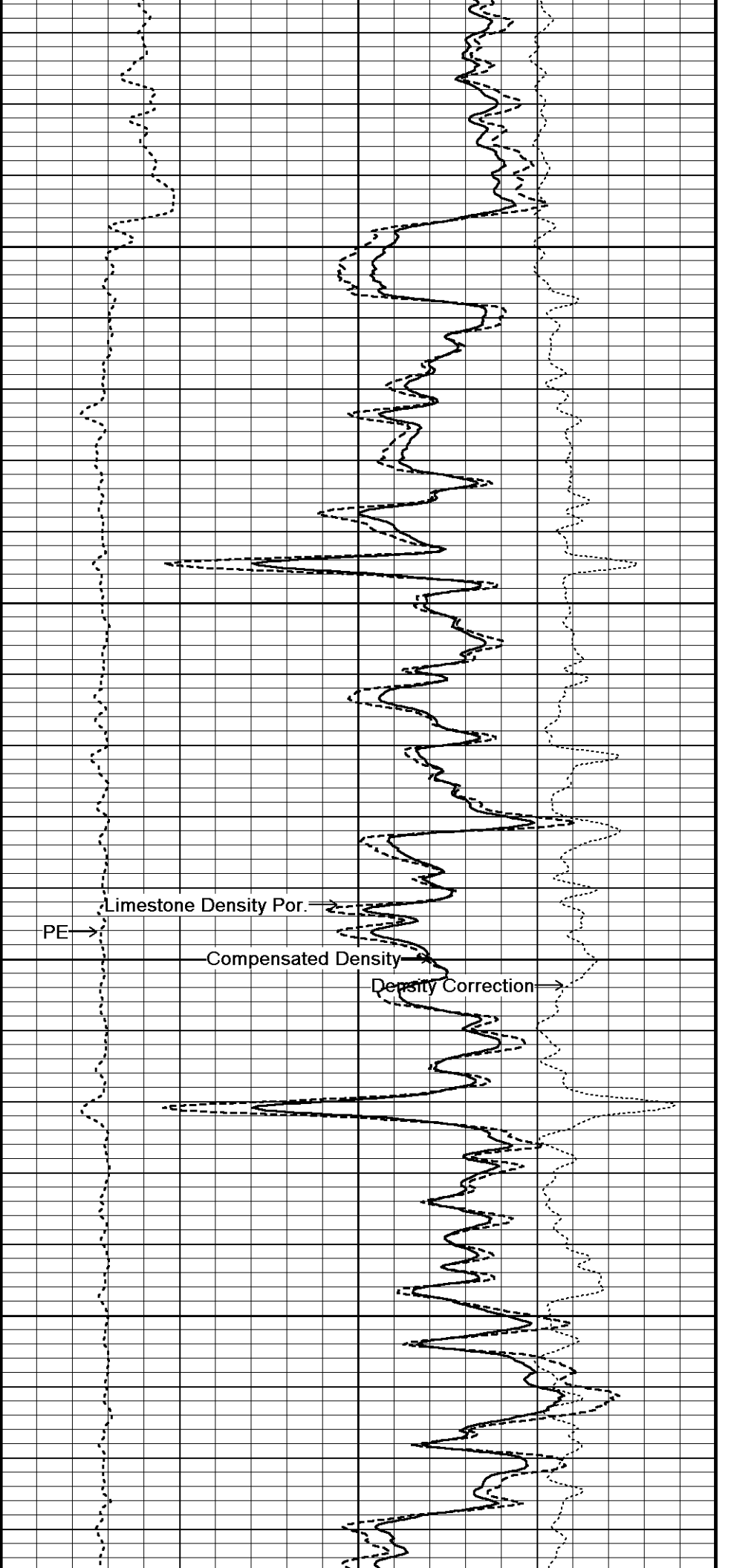
83°

1000

83°

1050

200

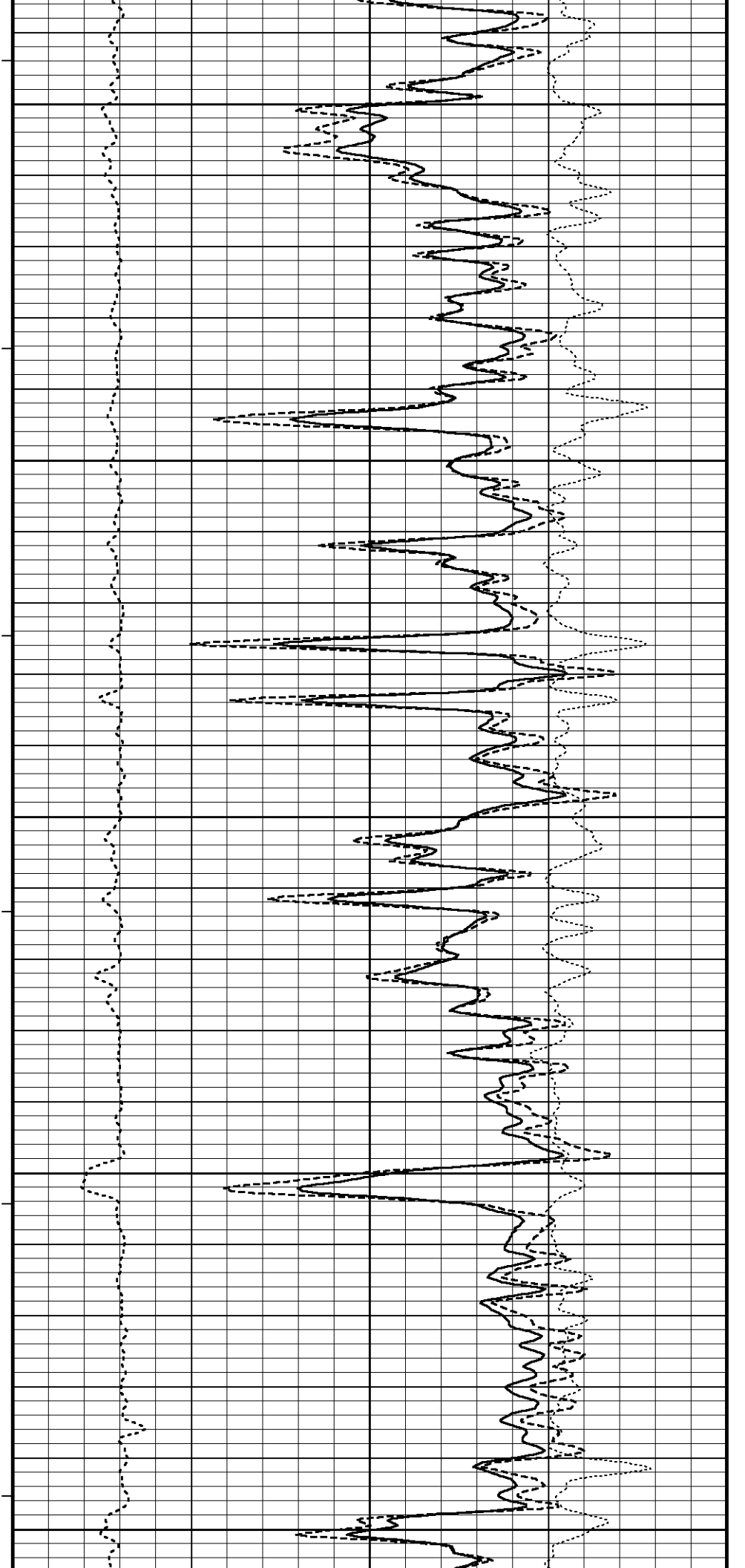
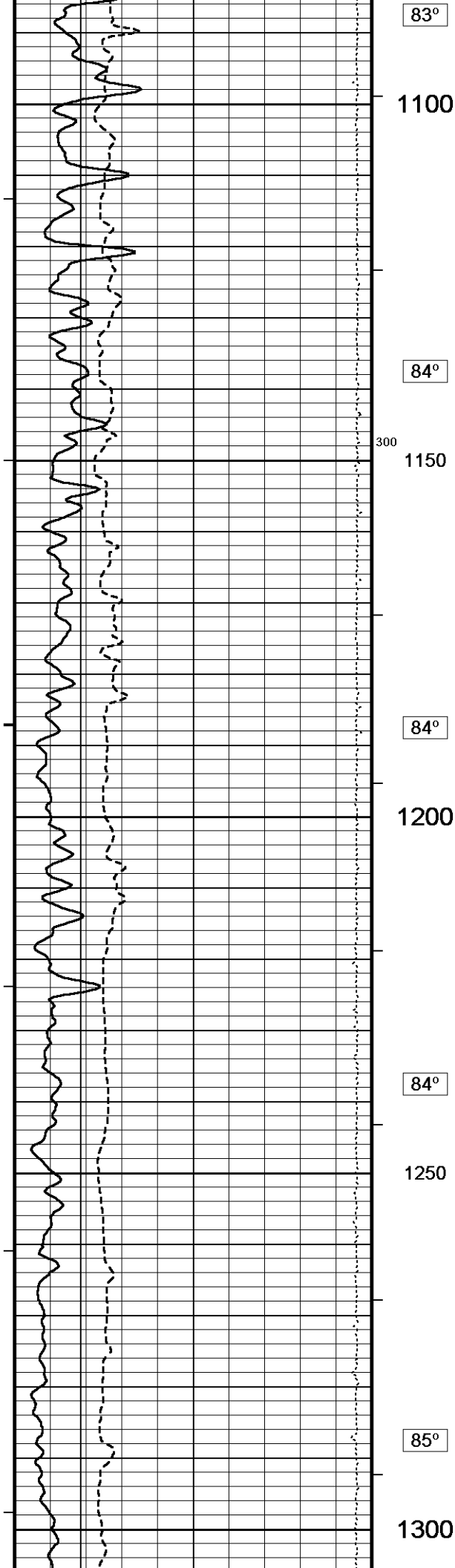


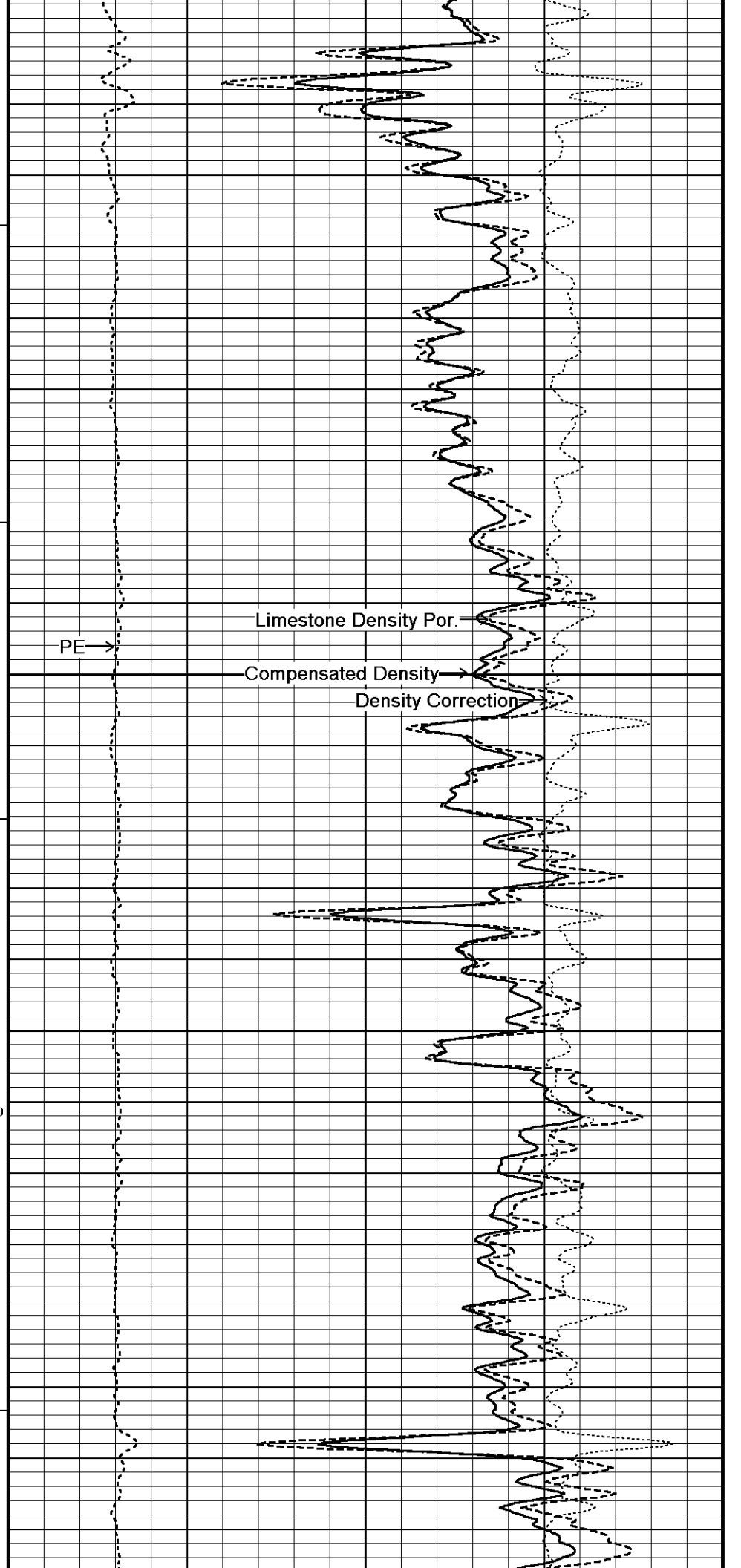
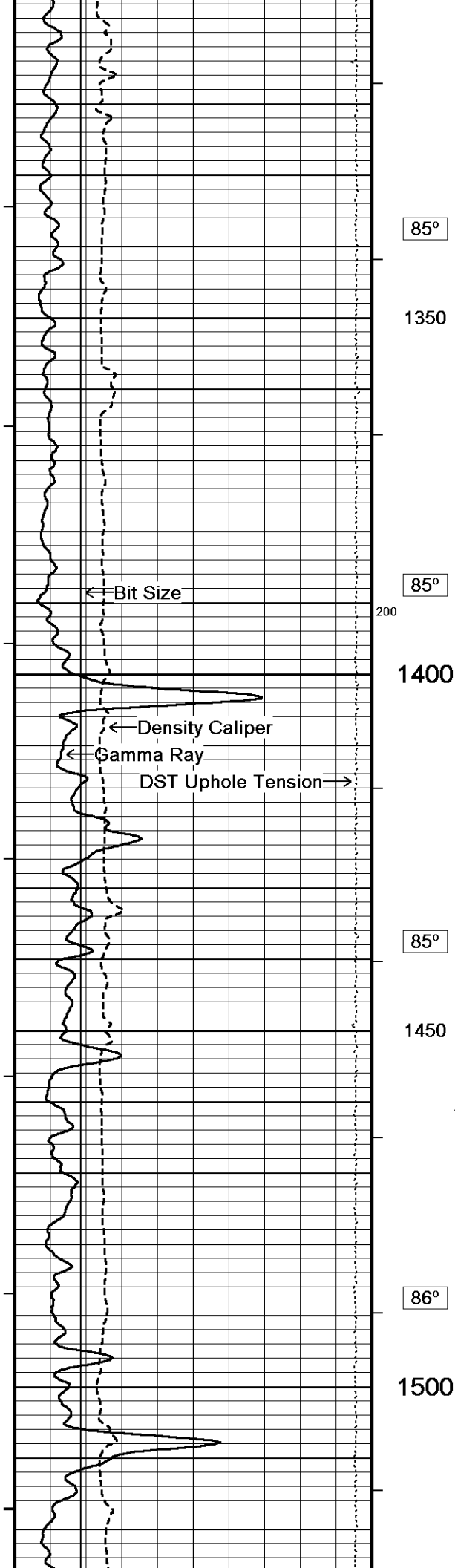
PE

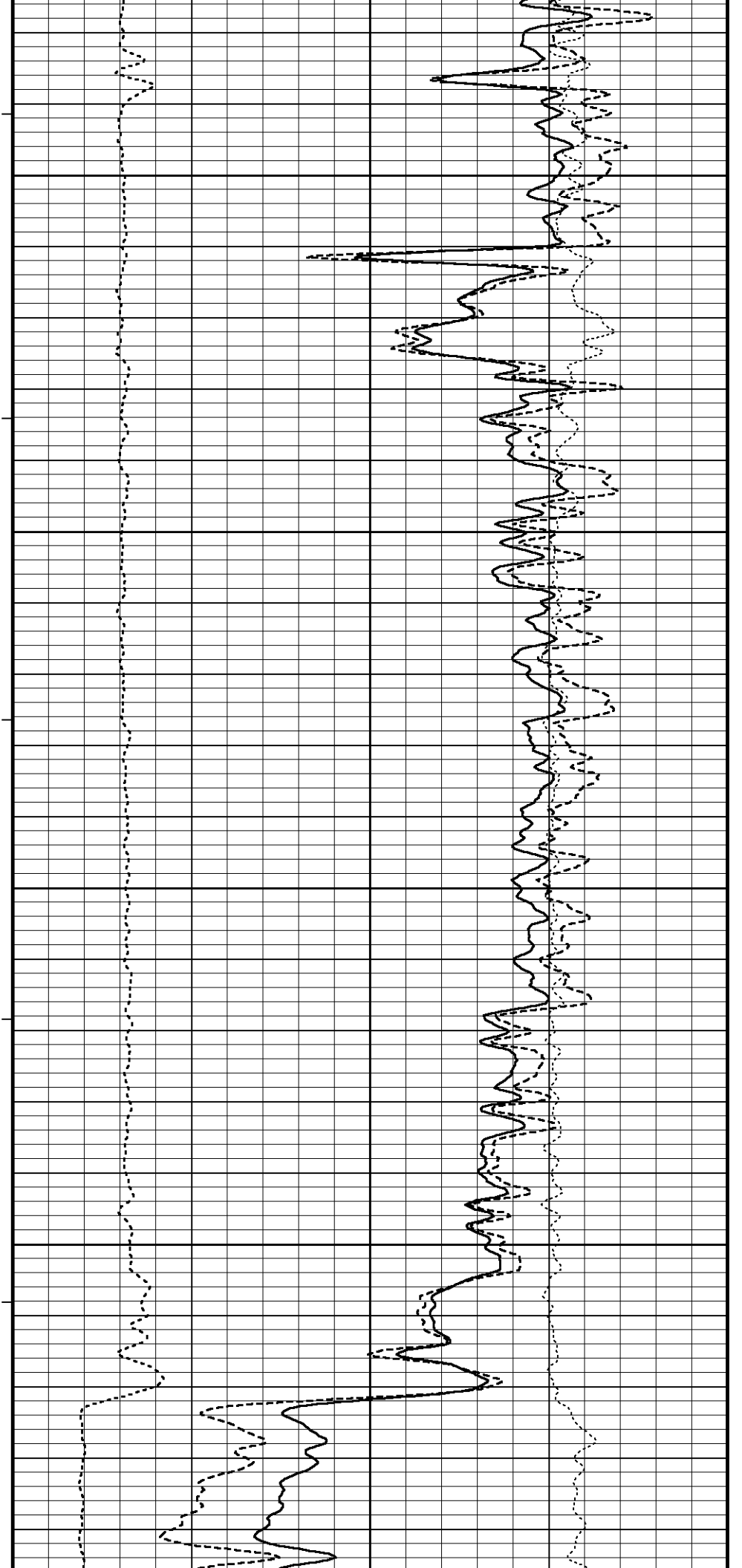
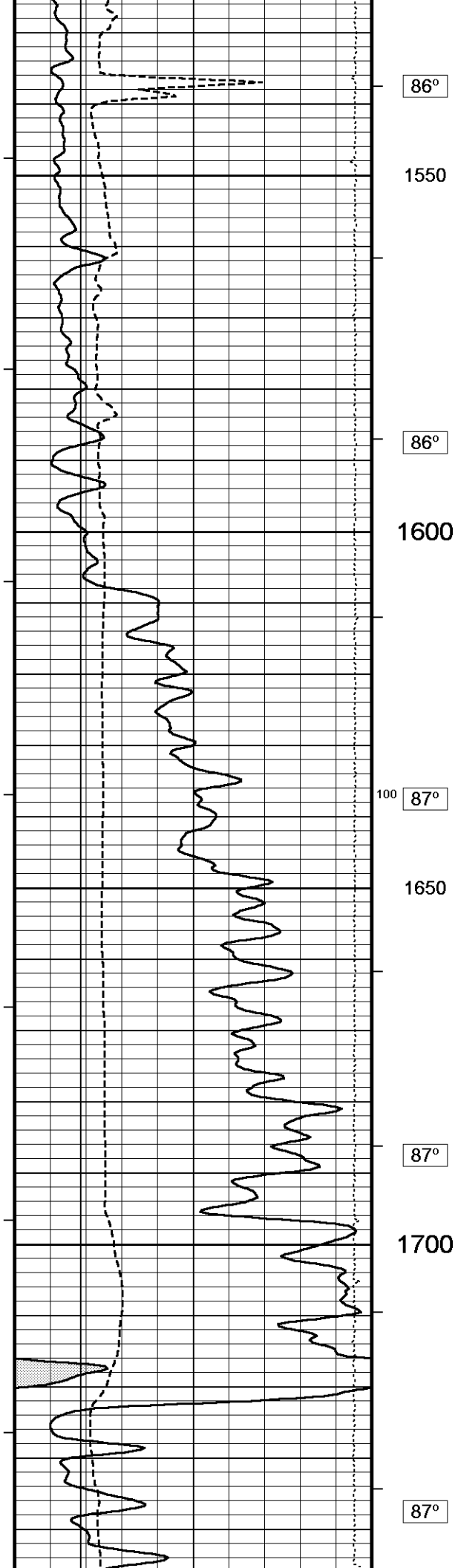
Limestone Density Por.

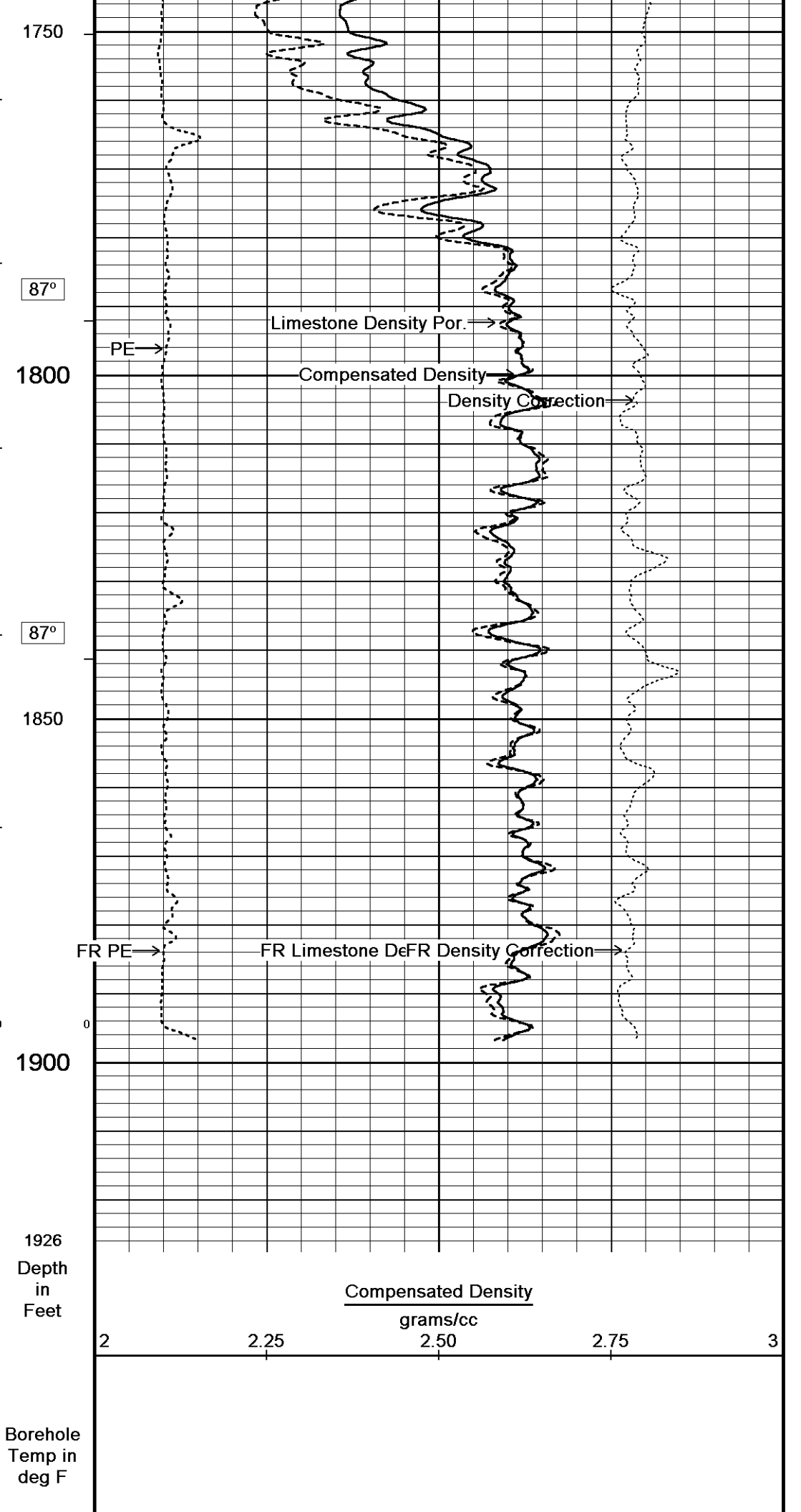
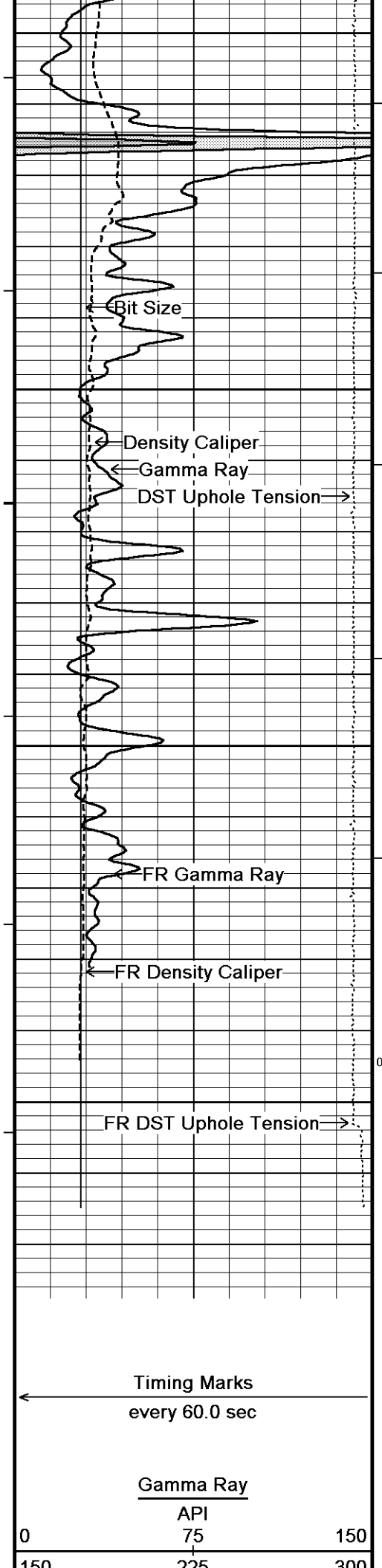
Compensated Density

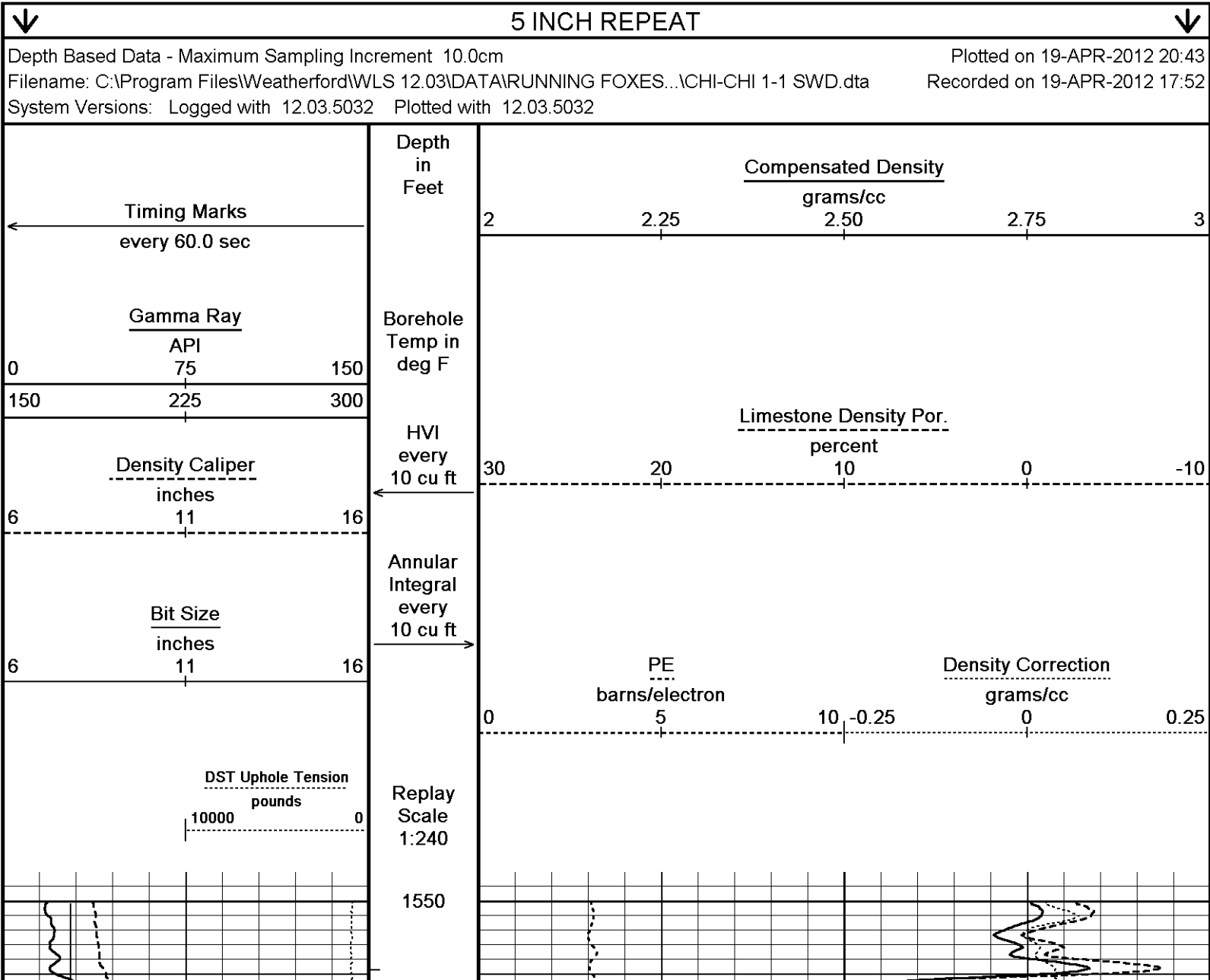
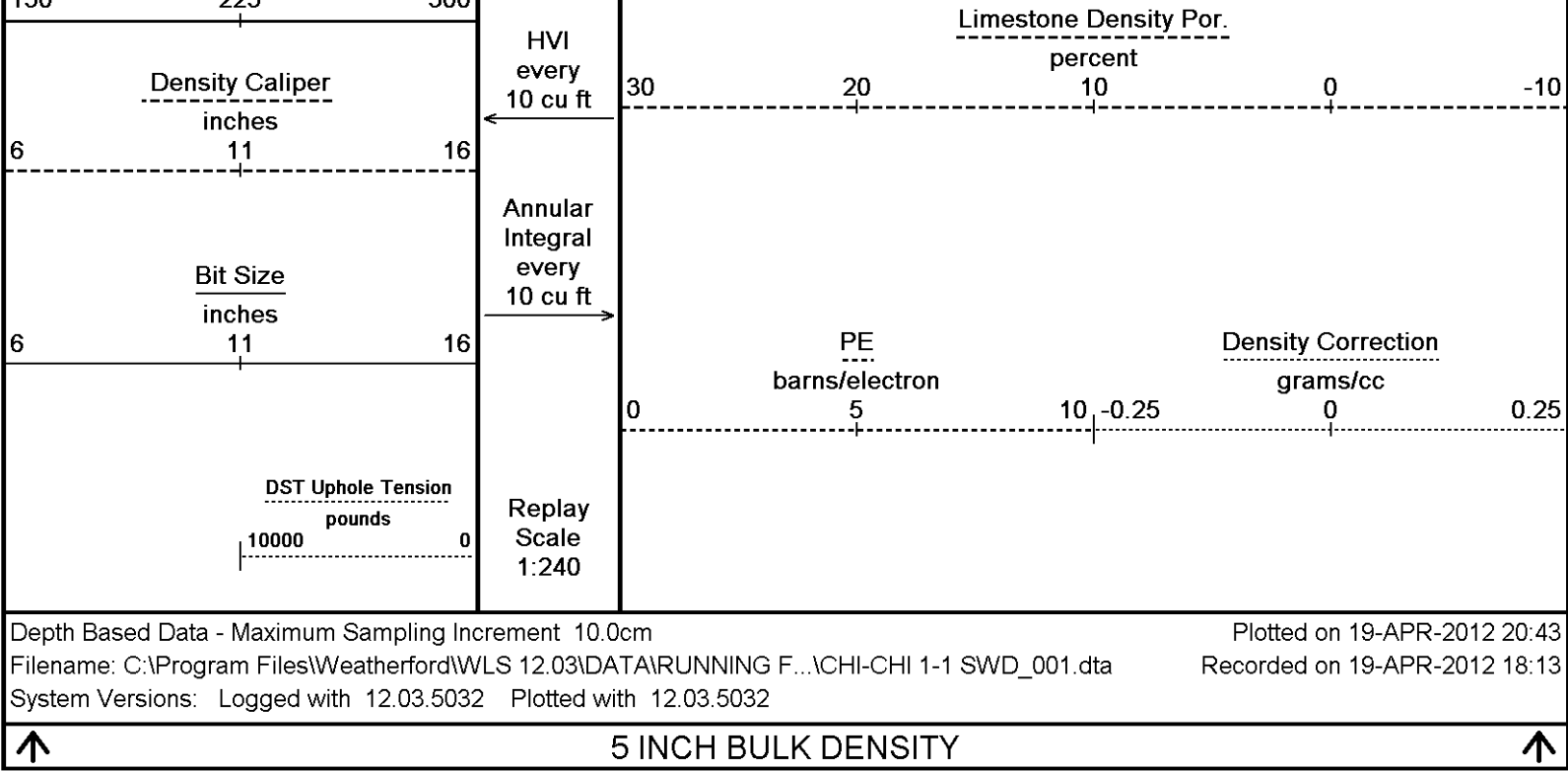
Density Correction

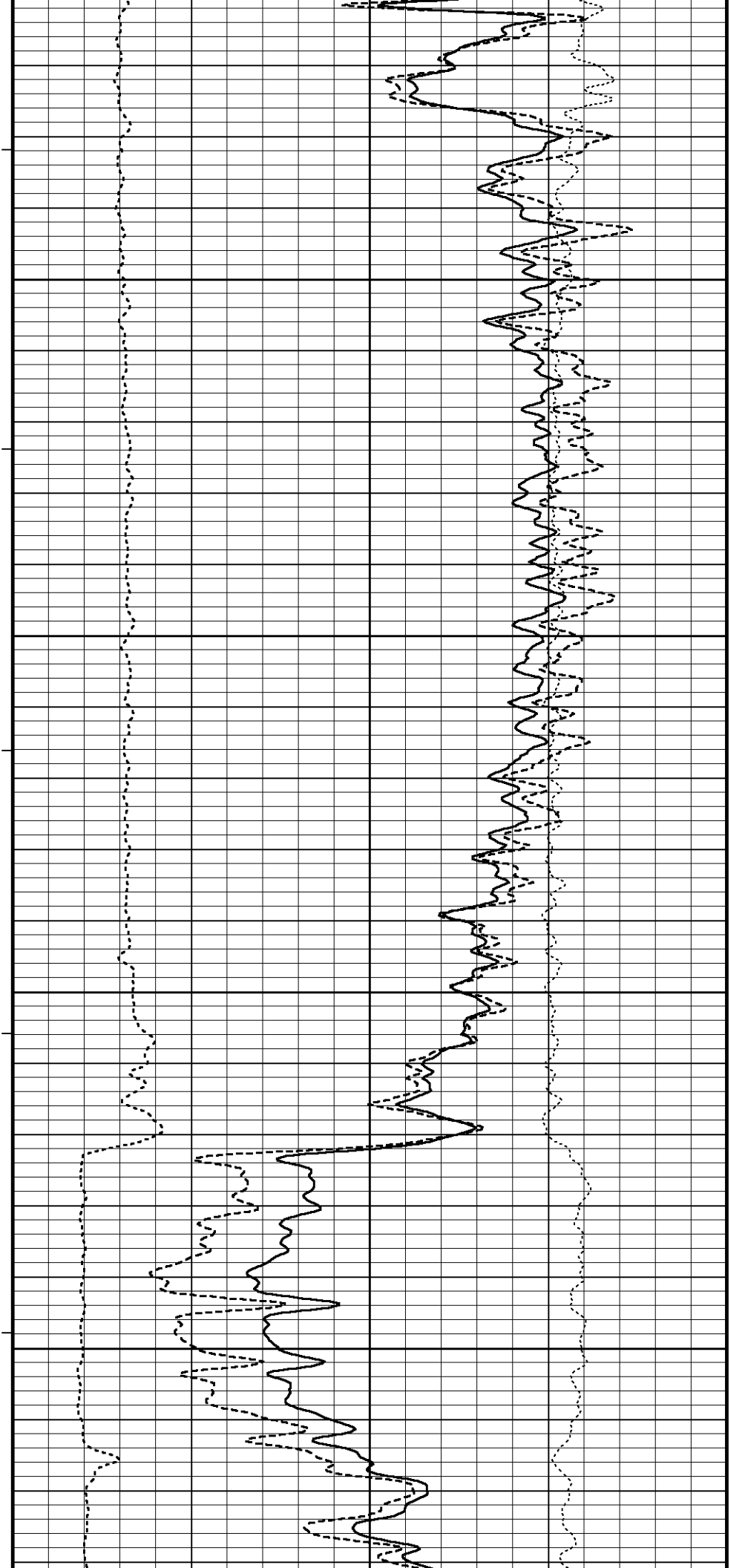
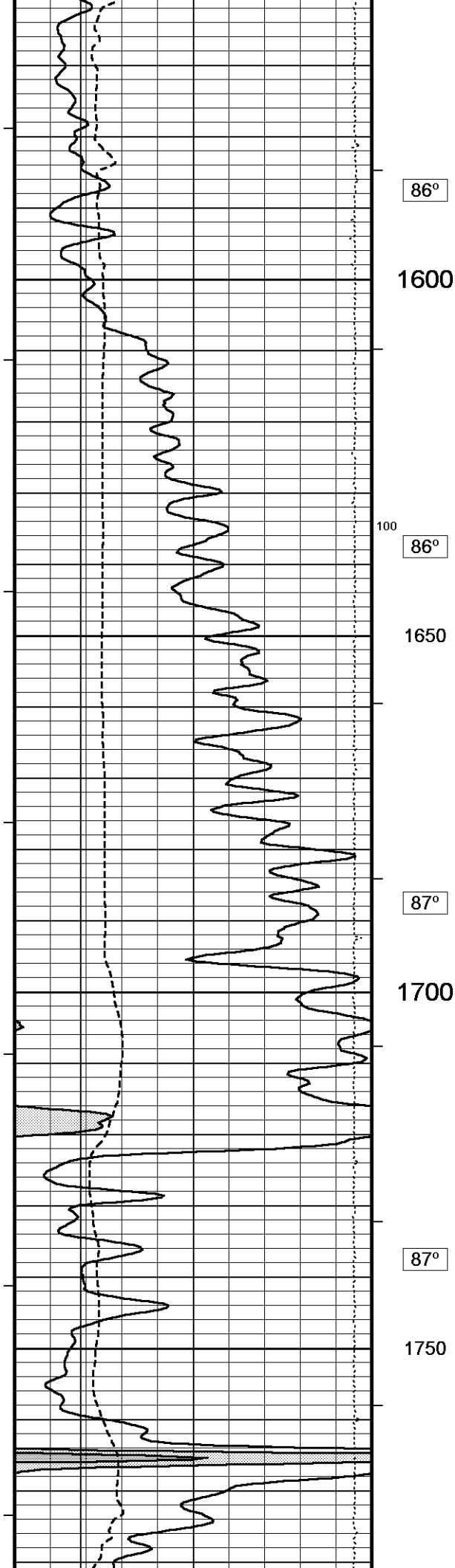


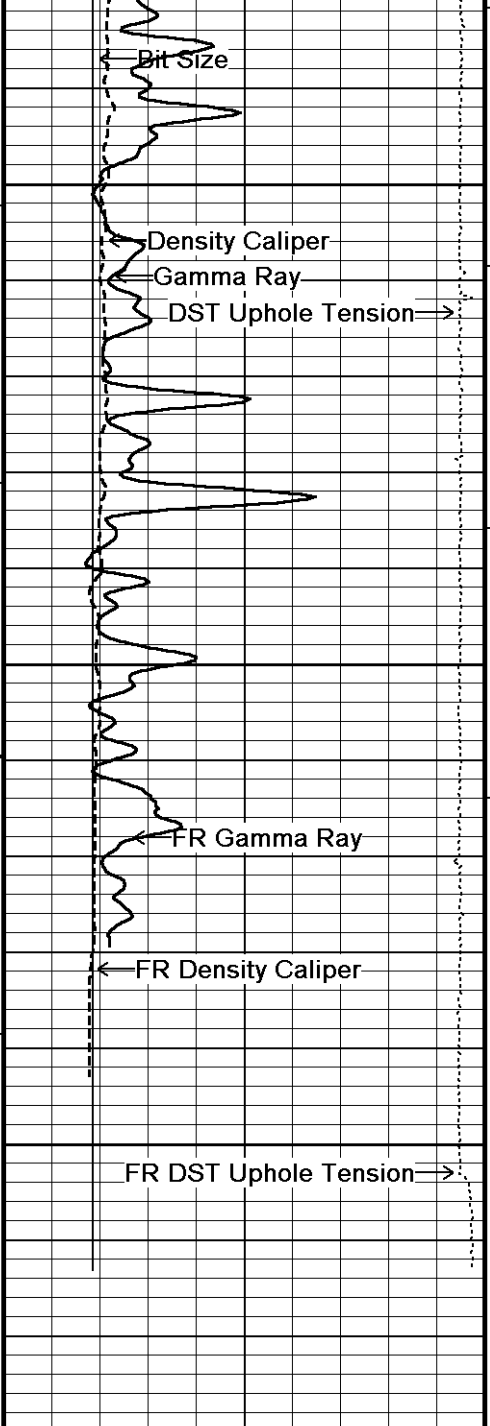












87°

1800

87°

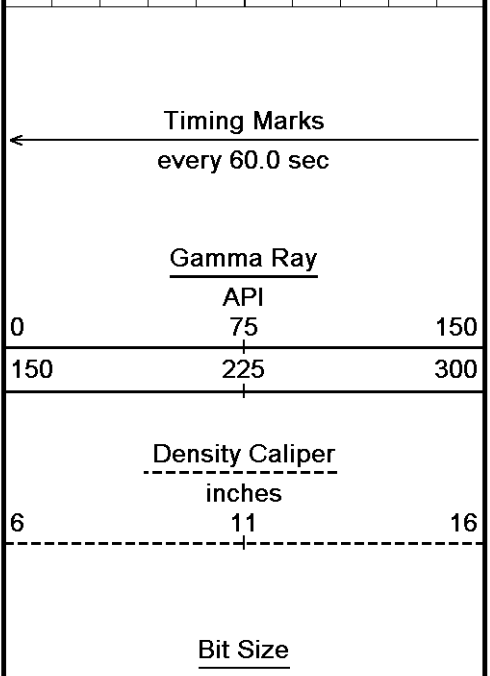
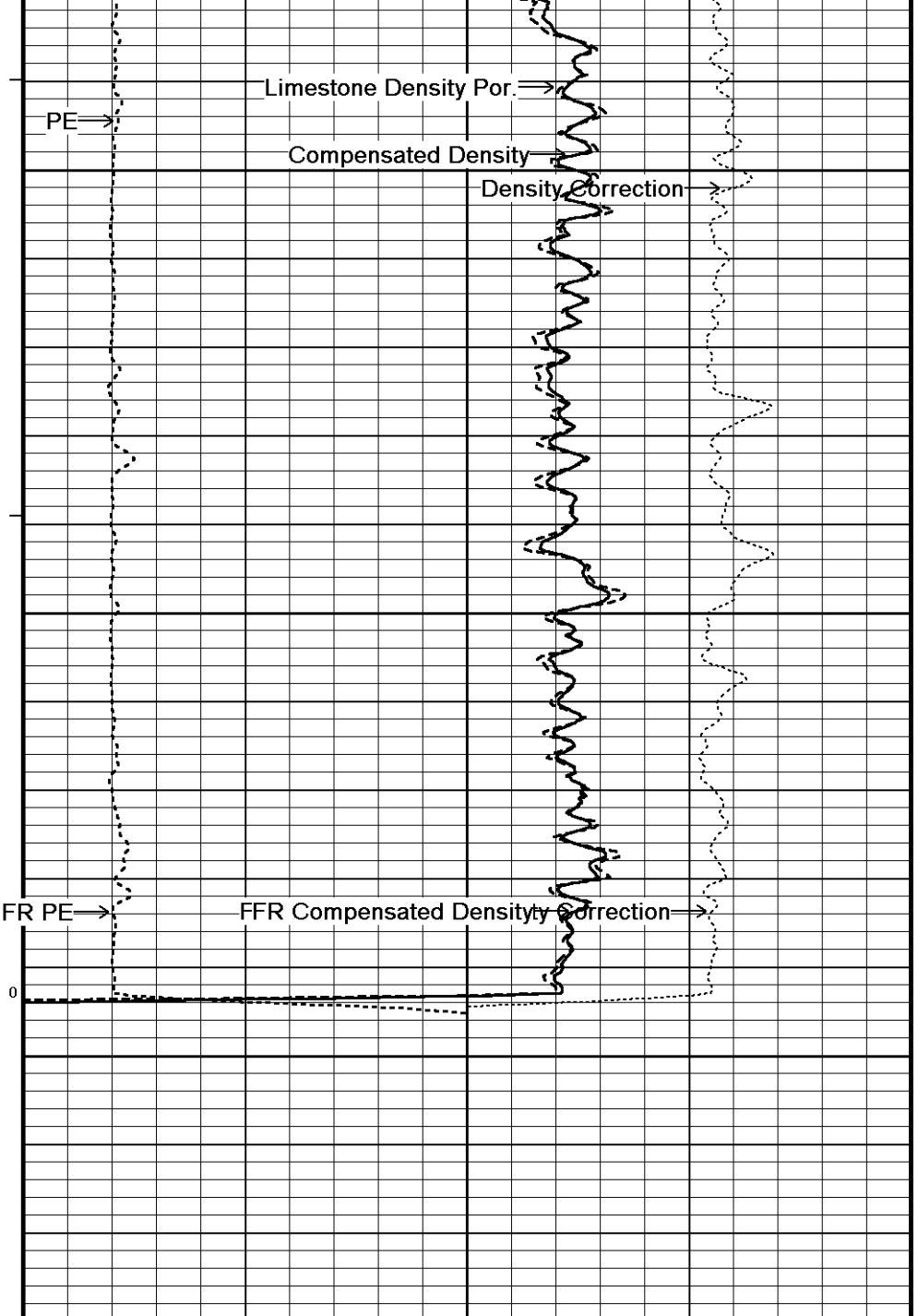
1850

0

1900

1928

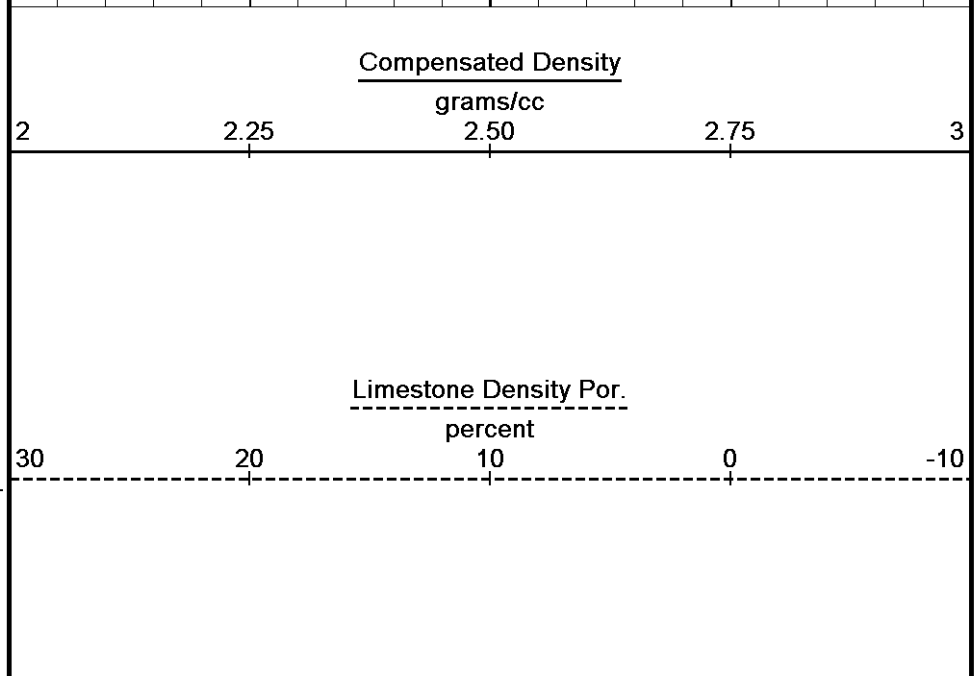
Depth in Feet

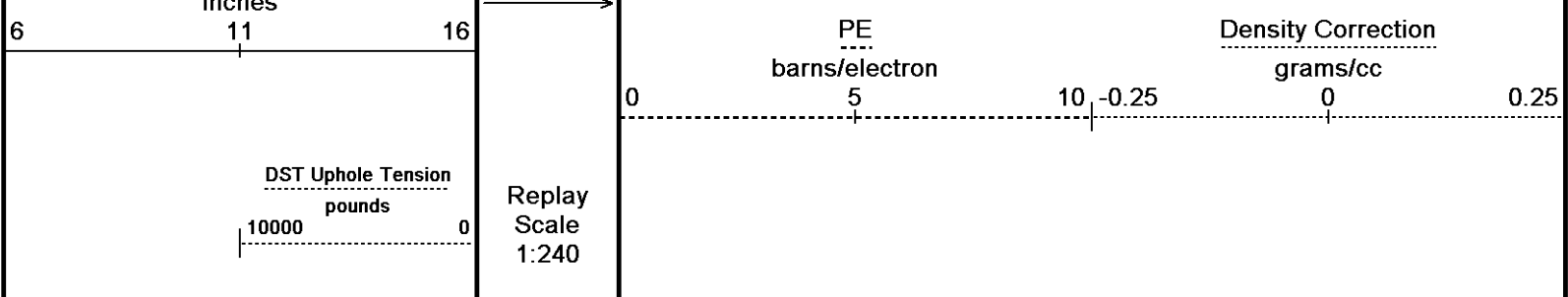


Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft





Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 19-APR-2012 20:43
 Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\RUNNING FOXES...\CHI-CHI 1-1 SWD.dta Recorded on 19-APR-2012 17:52
 System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

↑ 5 INCH REPEAT ↑

BEFORE SURVEY CALIBRATION

C:\Program Files\Weatherford\WLS 12.03\DATA\RUNNING FOXES (CHI-CHI 1-1 SWD)\CHI-CHI 1-1 SWD.dta

General Constants All 000			Last Edited on 19-APR-2012,17:00		
General Parameters					
Mud Resistivity	1.200		ohm-metres		
Mud Resistivity Temperature	81.000		degrees F		
Water Level	0.000		feet		
Density/Neutron Processing	Wet Hole				
Hole/Annular Volume and Differential Caliper Parameters					
HVOL Method	Single Caliper				
HVOL Caliper 1	Density Caliper				
HVOL Caliper 2	N/A				
Annular Volume Diameter	5.500		inches		
Caliper for Differential Caliper	Density Caliper				
Rwa Parameters					
Porosity used	Limestone Density Por.				
Resistivity used	Array Ind. One Res Rt				
RWA Constant A	0.610				
RWA Constant M	2.150				

Down-hole Tension Calibration SMS 0		Field Calibration on 26-FEB-2012 16:15	
Reading No	Measured	Calibrated (lbs)	
1	14469.65	0.00	
2	16626.62	750.00	

Gamma Calibration MCG-C 86		Field Calibration on 19-APR-2012,09:08	
	Measured	Calibrated (API)	
Background	39	28	
Calibrator (Gross)	1770	1289	
Calibrator (Net)	1731	1261	

Gamma Constants MCG-C 86		Last Edited on 19-APR-2012,16:45	
Gamma Calibrator Number	1		
Mud Density	1.07	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

SP Calibration MCG-C 86		Field Calibration on 19-APR-2012,09:08	
	Measured	Calibrated (mV)	
Reference 1	100.0	100.0	
Reference 2	-100.0	-100.0	

High Resolution Temperature Calibration MCG-C 86		Field Calibration on 19-APR-2012,09:09	
	Measured	Calibrated (Deg F)	
Lower	50.00	50.00	

Upper	100.00	100.00	
High Resolution Temperature Constants MCG-C 86			Last Edited on
Pre-filter Length	11		
Neutron Calibration MDN-A.A 10			Base Calibration on 16-FEB-2012,21:39 Field Check on 19-APR-2012,09:09
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	3130 98	3714 110	
Ratio	31.818 33.764		
Field Calibrator at Base			
		Calibrated (cps)	
		1248 1792	
Ratio	0.696		
Field Check			
		Calibrated (cps)	
		1218 1776	
Ratio	0.686		
Neutron Constants MDN-A.A 10			Last Edited on 19-APR-2012,16:46
Neutron Source Id	P14033B		
Neutron Jig Number	13226		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.00	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	None		
Temperature	N/A	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		
FE Calibration MFE-A.A 65			Base Calibration on 27-MAR-2012 13:32 Field Check on 19-APR-2012,09:10
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	9.7	1.3	
Reference 2	956.7	126.8	
Base Check	282.0		
Field Check	282.0		
FE Constants MFE-A.A 65			Last Edited on 19-APR-2012,09:10
Running Mode	No Sleeve		
MFE K Factor	0.1268		
Caliper Source for FE correction	Density Caliper		
Caliper Value for FE correction	N/A	inches	
Rm Source for FE correction	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	0.5	inches	
High Resolution Temperature Calibration MAI-A.A 102			Field Calibration on 19-APR-2012,09:10
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	100.00	100.00	
High Resolution Temperature Constants MAI-A.A 102			Last Edited on
Pre-filter Length	11		

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	17.3	481.3	9.3	966.2
2	5.4	377.6	7.6	821.4
3	2.4	255.3	5.2	566.0
4	1.5	133.4	2.6	279.2

Array Temperature 78.4 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	12.6	3809.9
2	0.0	0.0	32.6	3607.6
3	0.0	0.0	31.7	3125.9
4	0.0	0.0	20.7	2087.6
Deep	0.0	0.0	19.0	2000.5
Medium	0.0	0.0	47.3	4182.1
Shallow	0.0	0.0	48.9	5376.2

Array Temperature 0.0 59.3 Deg F

Induction Constants MAI-A.A 102

Last Edited on 19-APR-2012,17:00

Induction Model	RtAP-WBM
Caliper for Borehole Corr.	Density Caliper
Hole Size for Borehole Correction	N/A inches
Tool Centred	No
Stand-off Type	Fins
Stand-off	0.50 inches
Number of Fins on Stand-off	6.0000
Stand-off Fin Angle	60.00 degrees
Stand-off Fin Width	0.5000 inches
Borehole Corr. Rm Source	Temperature Corr
Temp. for Rm Corr.	MCG External Temperature
Squasher Start	0.0060 mhos/metre
Squasher Offset	N/A mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00
Cementation Exponent (M)	2.00
Saturation Exponent (N)	2.00
Saturation of Water for Apor	100.00 percent
Resistivity of Water for Apor and Sw	0.05 ohm-m
Resistivity of Mud Filtrate for Sw	0.00 ohm-m
Source for Rt	0.00
Source for Rxo	0.00

Caliper Calibration MPD-A 3

Base Calibration on 20-FEB-2012,10:19
Field Calibration on 19-APR-2012,09:10

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	20208	3.98
2	28784	5.95
3	37424	7.97

4	45392	9.84
5	54503	11.91
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.92	7.99

Photo Density Calibration MPD-A 3

Base Calibration on 27-MAR-2012 10:10
Field Check on 19-APR-2012,09:09

Density Calibration

	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	46850	24590	59869	31110
Reference 2	20054	2765	24557	2522

Field Check at Base

1284.8	1616.3
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Field Check

1284.6	1617.1
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PE Calibration

	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	235	1148		
Reference 1	18748	46659	0.407	0.369
Reference 2	5542	19909	0.283	0.271

Field Check at Base

234.9	1147.9
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Field Check

233.2	1146.0
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Density Constants MPD-A 3

Last Edited on 19-APR-2012,16:46

Density Source Id	260	
Nylon Calibrator Number	633	
Aluminium Calibrator Number	633	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.07	gm/cc
Mud Density Z/A Multiplier	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
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
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	0.00	

DOWNHOLE EQUIPMENT

C:\Program Files\Weatherford\WLS 12.03\DATA\RUNNING FOXES (CHI-CHI 1-1 SWD)\CHI-CHI 1-1 SWD.dta

Compact Comms Gamma
MCG-C 86 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in



34.84 ft

GRGC - Gamma Ray

31.93 ft

CGXT - MCG External Temperature

28.38 ft

NPRL - Limestone Neutron Por.

Compact Neutron

MDN-A.A 10 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper

MPD-A 3 LG: 9.53 ft WT: 90.4 lb OD: 2.45 in

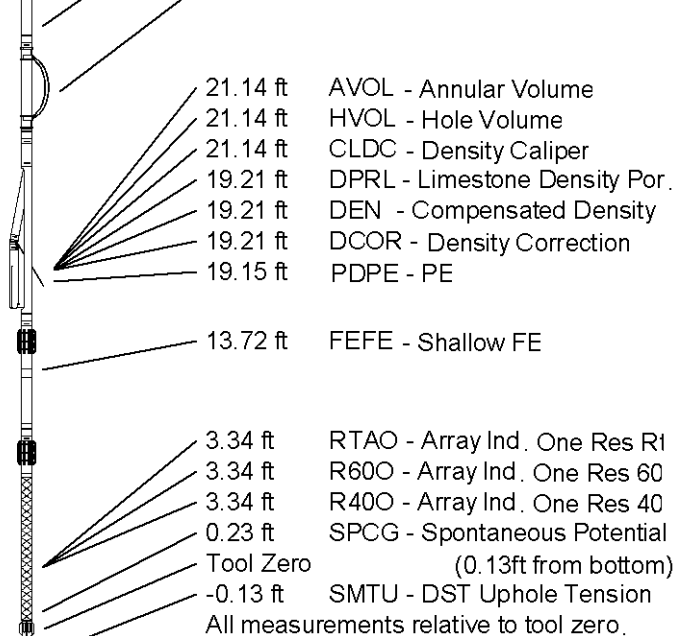
Compact Focussed Electric

MFE-A.A 65 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction

MAI-A.A 102 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 40.12 ft Weight: 302.0 lb



COMPANY	RUNNING FOXES PETROLEUM INC.
WELL	CHI-CHI 1-1 SWD
FIELD	CHI-CHI
PROVINCE/COUNTY	BOURBON
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	878.00	feet	First Reading	1884.00	feet
Elevation Drill Floor	876.00	feet	Depth Driller	1903.00	feet
Elevation Ground Level	873.00	feet	Depth Logger	1903.00	feet



Weatherford®

COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
LOG

