



Weatherford

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

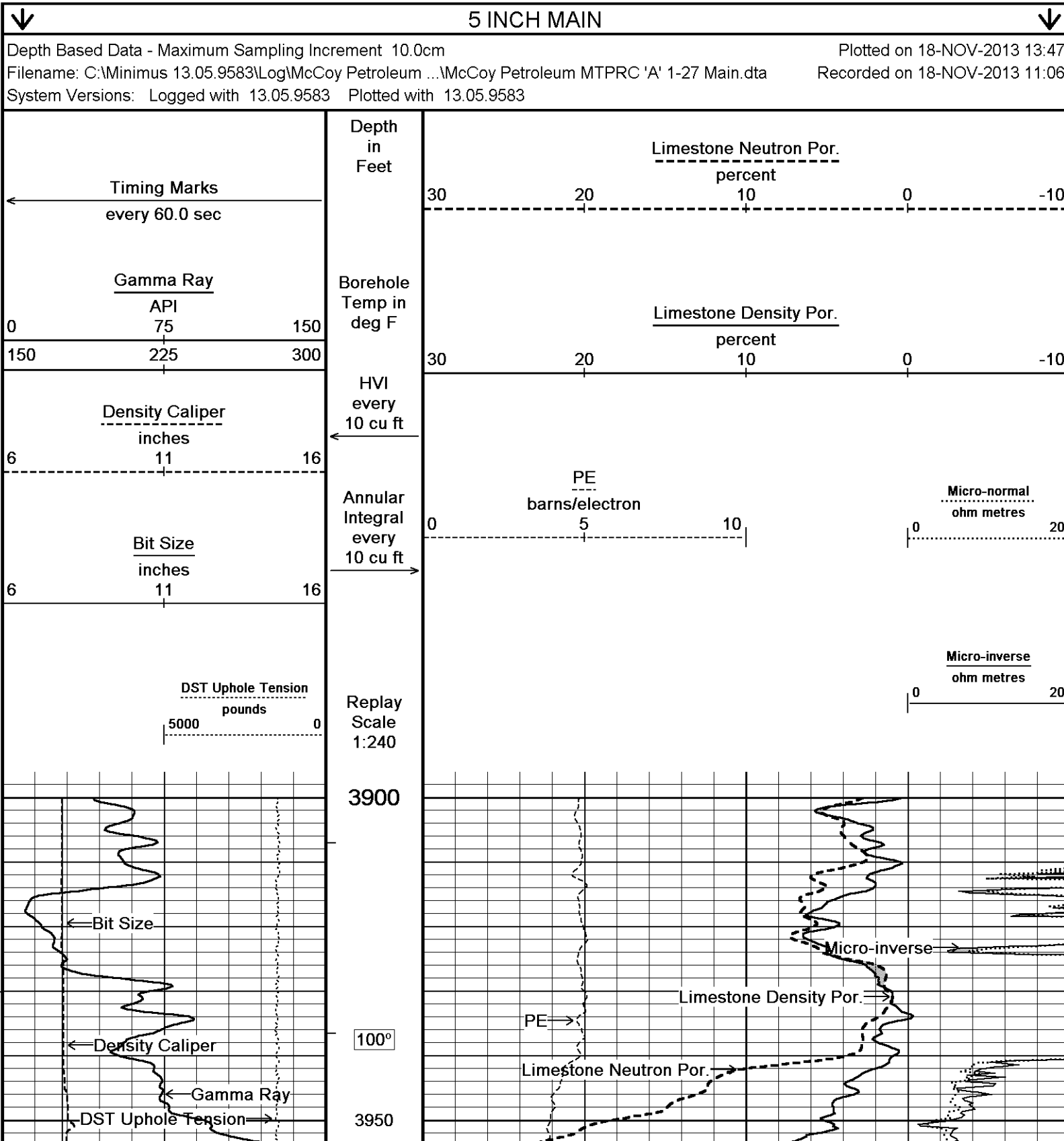
COMPANY			MCCOY PETROLEUM CORPORATION		
WELL			MTPRC 'A' #1-27		
FIELD			ALFORD SOUTH		
PROVINCE/COUNTY			KIOWA		
COUNTRY/STATE			U.S.A. / KANSAS		
LOCATION			330' FNL & 330' FEL NE NE NE		
SEC	TWP	RGE	Other Services		
27	30S	19W	MAI/MFE		
API Number			15-097-21773		
Permit Number					
Permanent Datum GL, Elevation 2213 feet					
Log Measured From KB					
Drilling Measured From KB @ 11 FEET					
Date	18-NOV-2013				Elevations: KB 2224.00 DF 2222.00 GL 2213.00
Run Number	ONE				
Service Order	3547647				
Depth Driller	5200.00		feet		
Depth Logger	5198.00		feet		
First Reading	5179.00		feet		
Last Reading	3900.00		feet		
Casing Driller	601.00		feet		
Casing Logger	604.00		feet		
Bit Size	7.875		inches		
Hole Fluid Type	CHEMICAL				
Density / Viscosity	9.30 lb/USg		61.00 CP		
PH / Fluid Loss	10.50		9.20 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.74 @ 73.0		ohm-m		
Rmf @ Measured Temp	0.59 @ 73.0		ohm-m		
Rmc @ Measured Temp	0.89 @ 73.0		ohm-m		
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.50 @108.0		ohm-m		
Time Since Circulation	4 HOURS				
Max Recorded Temp	108.00		deg F		
Equipment / Base	13096		LIB		
Recorded By	J. LAPOINT				R. HOFFMAN
Witnessed By	E. STONE				
IOB#	LB13-327				

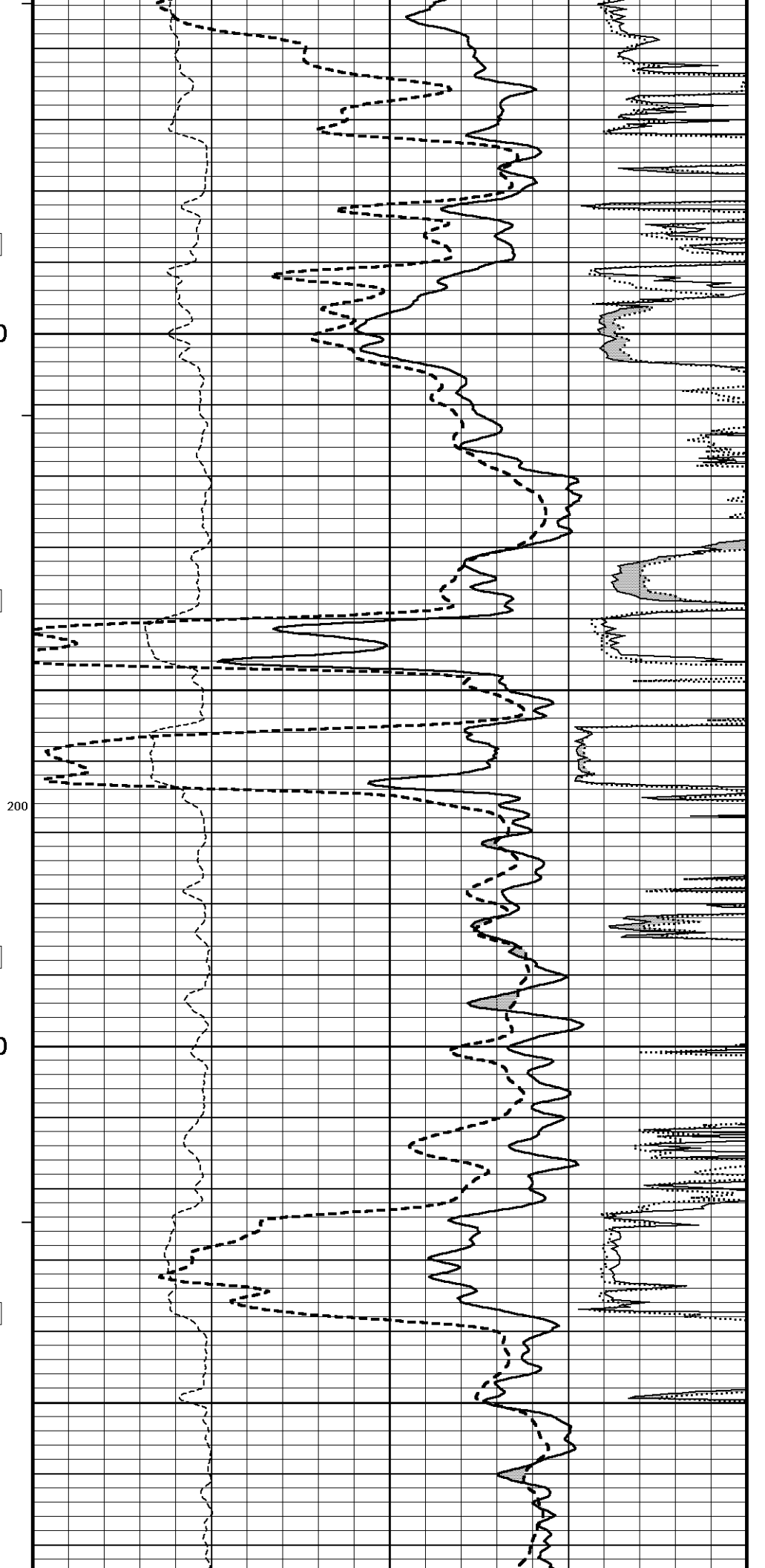
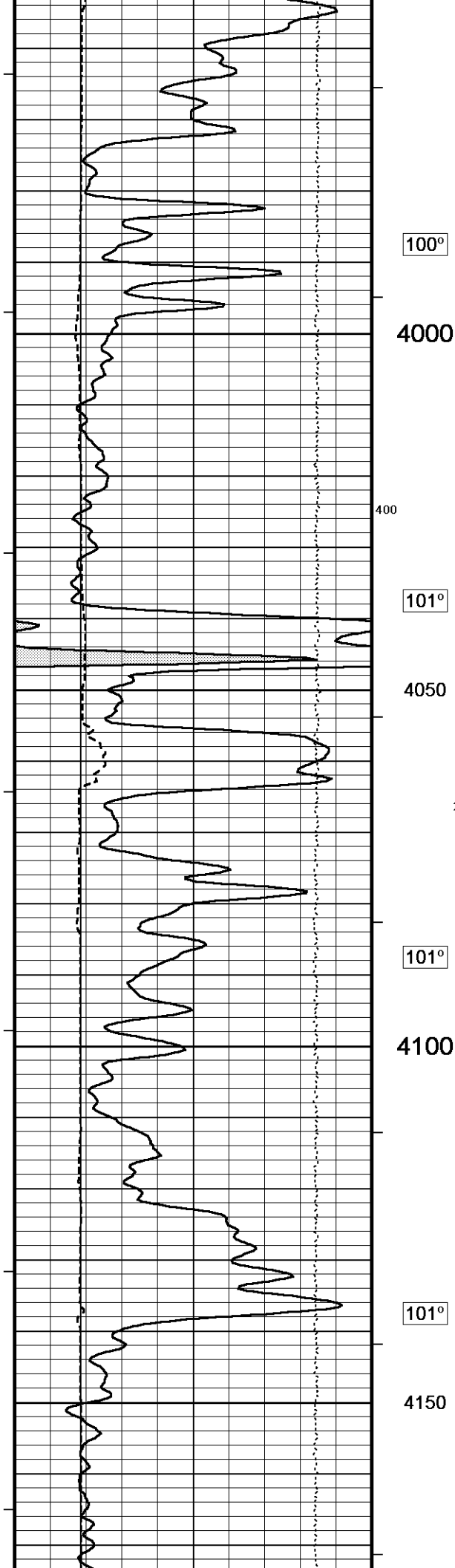
BOREHOLE RECORD			Last Edited: 18-NOV-2013 12:05	
Bit Size inches	Depth From feet		Depth To feet	
7.875	604.00		5198.00	
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	604.00	24.00

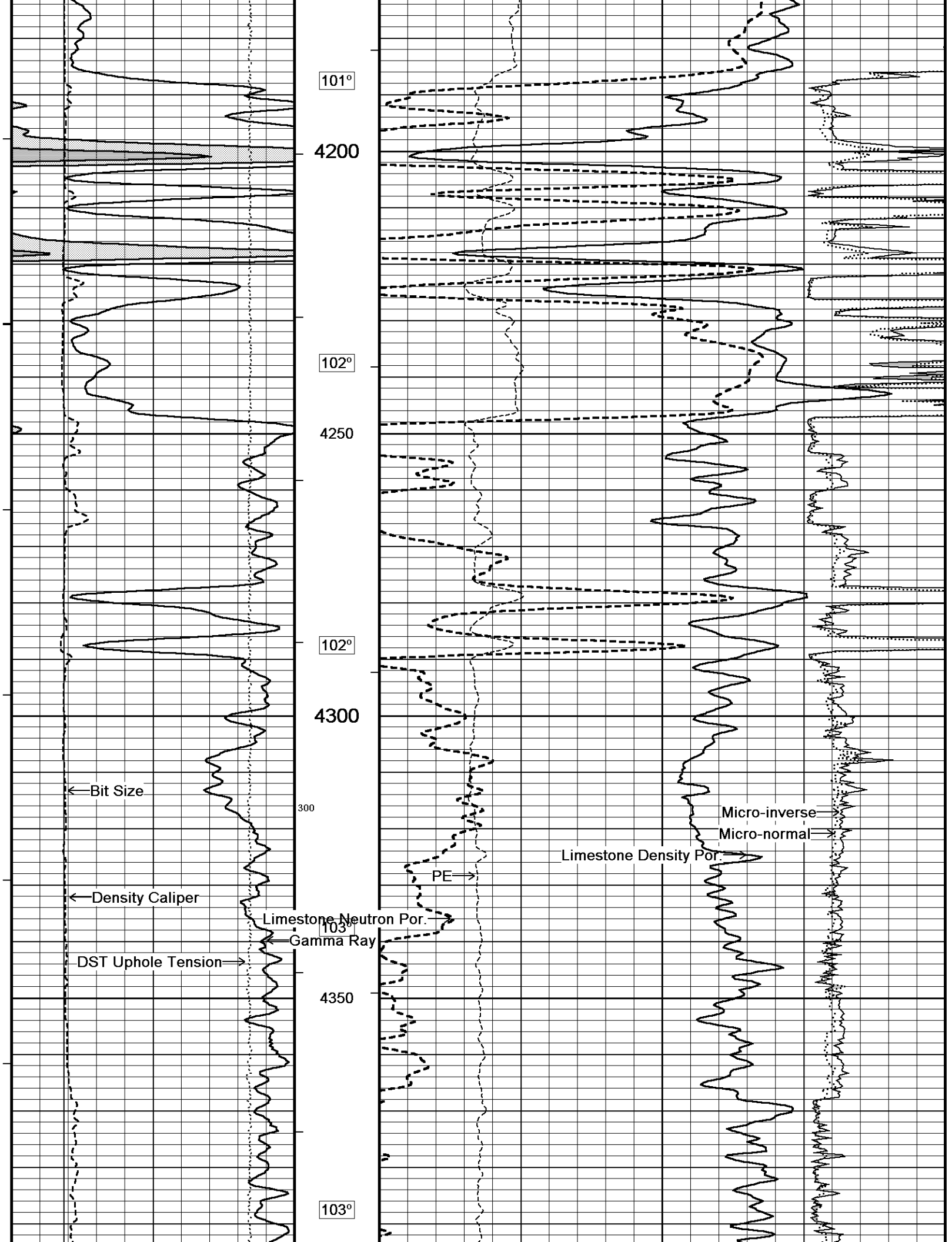
REMARKS
- SOFTWARE ISSUE: WLS 13.05.9583.
- MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION. - HARDWARE: DUAL BOWSPRING USED ON MDN. 0.5 INCH STANDOFF USED ON MFE. 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO 3900 FEET: 442 CU. FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH CASING FROM TD TO 3900 FEET: 229 CU. FT.
- SERVICE ORDER # 3547647

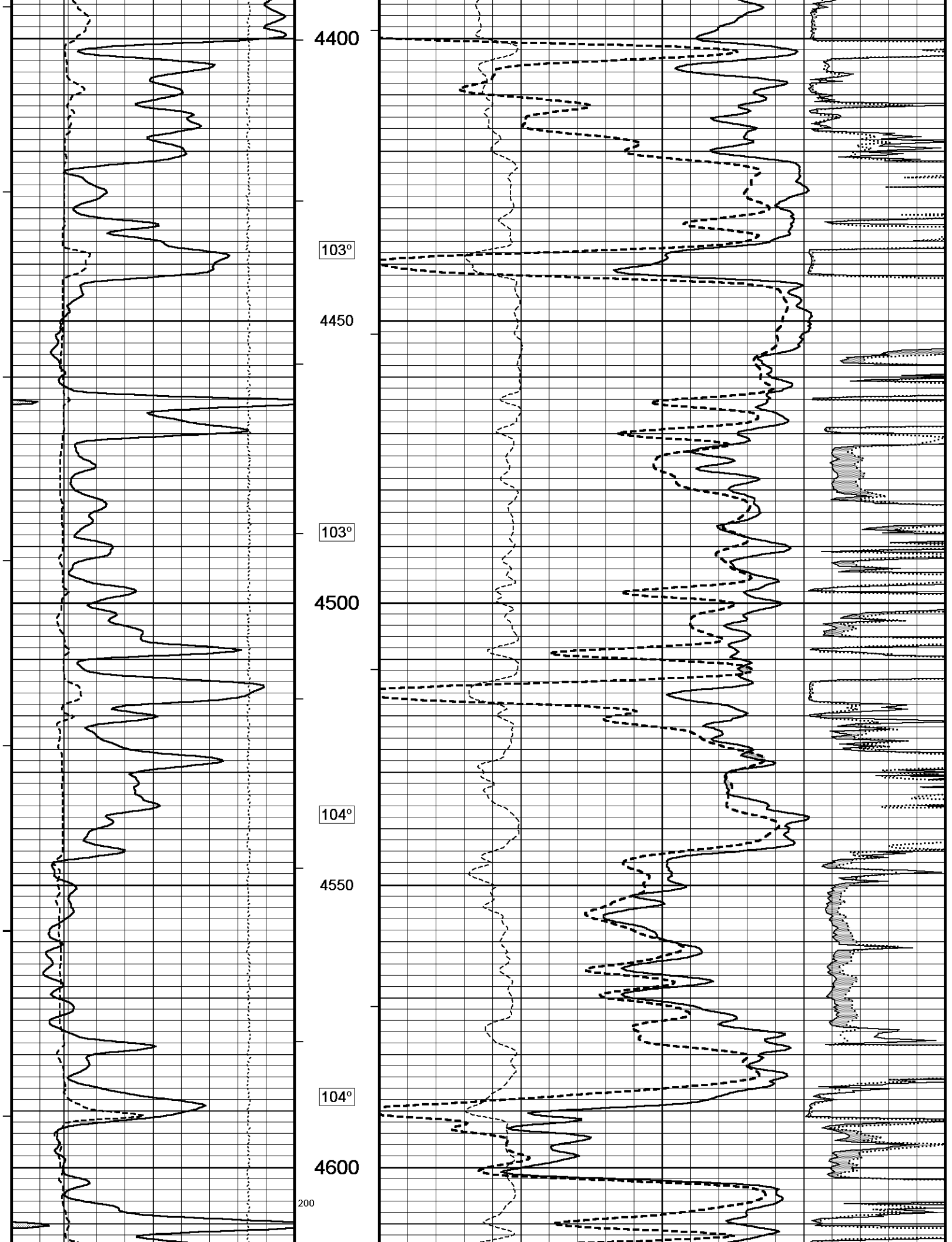
- RIG: STERLING RIG 2.
- ENGINEER: J. LAPOINT AND R. HOFFMAN
- OPERATOR(S): K. RINEHART AND D. CANADAY.

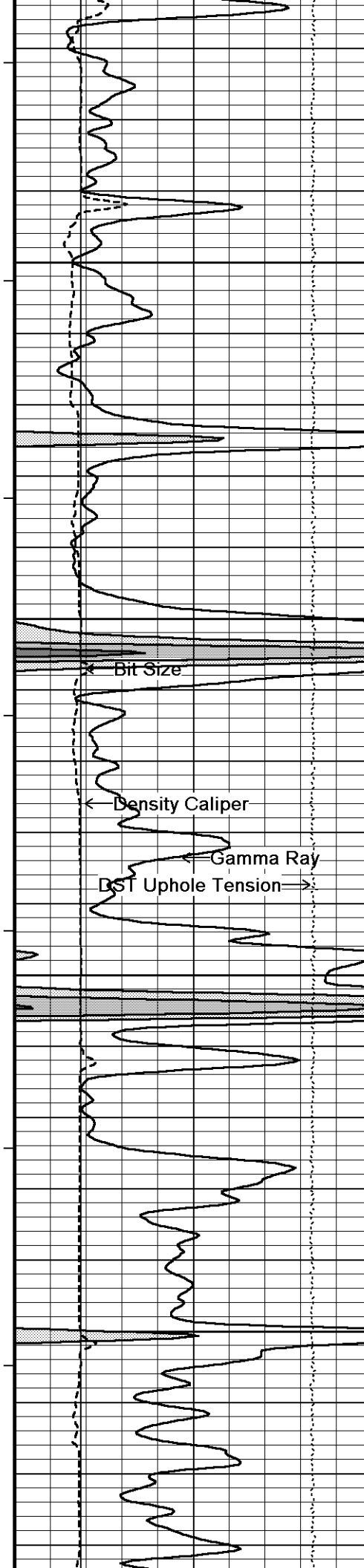
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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











100

104°

4650

104°

4700

Bit Size

Density Caliper

Gamma Ray

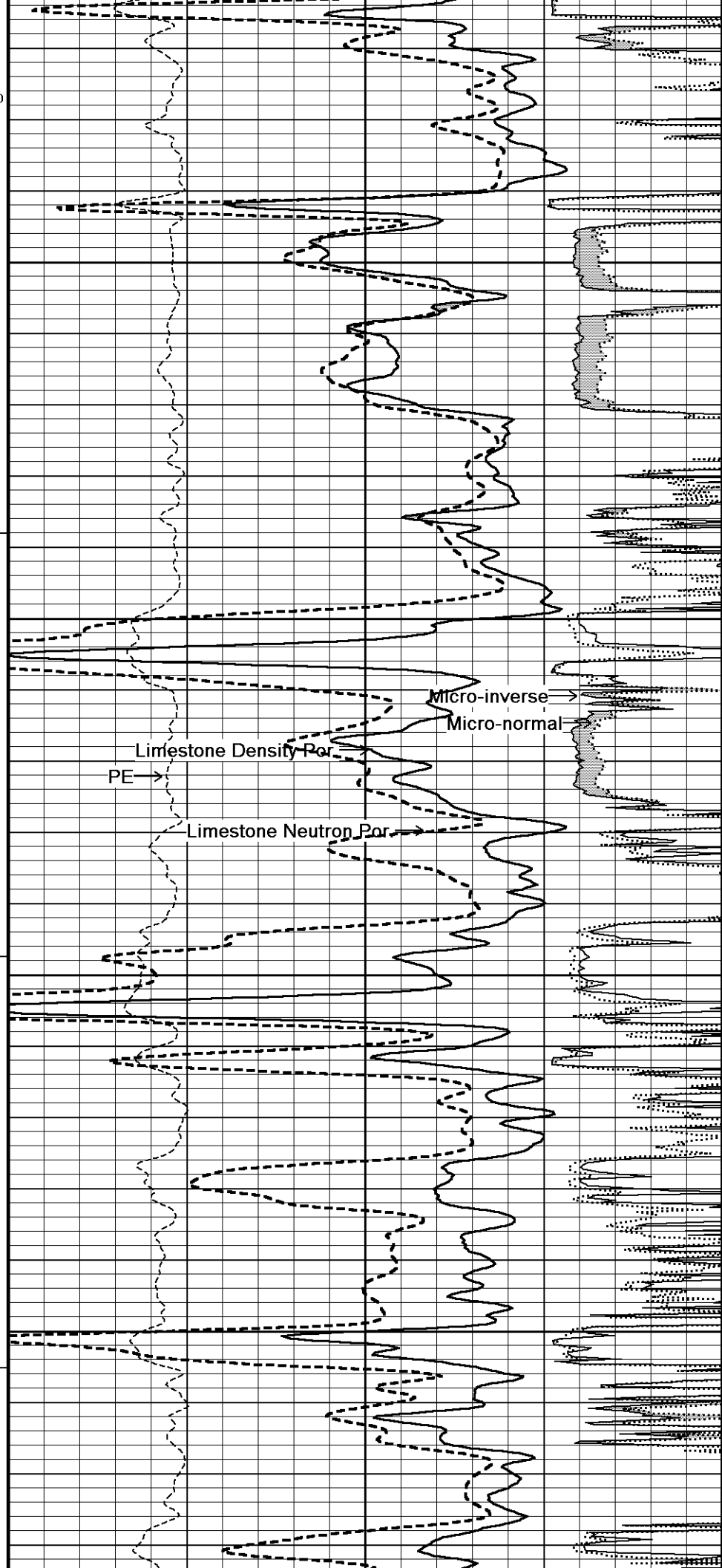
DST Uphole Tension

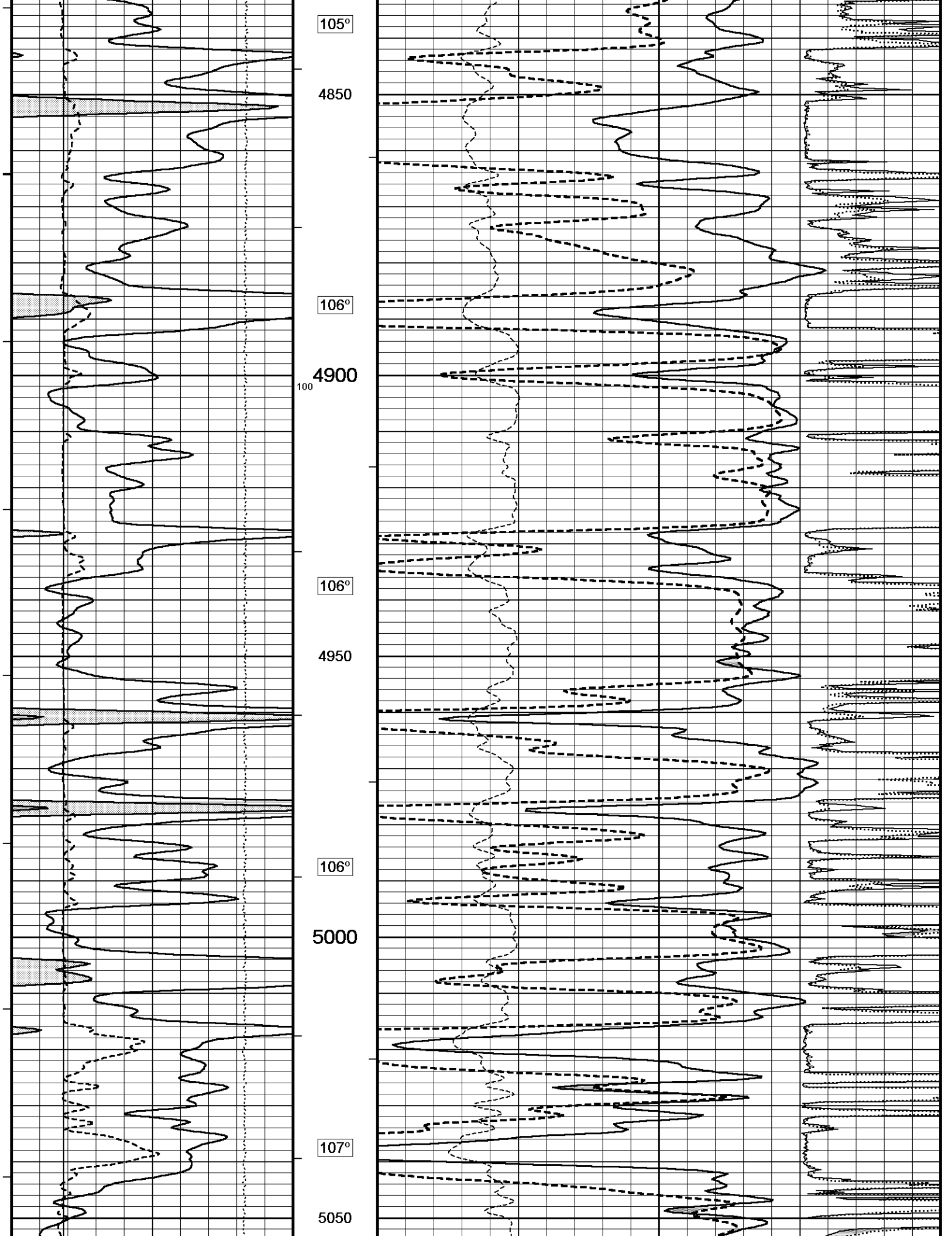
105°

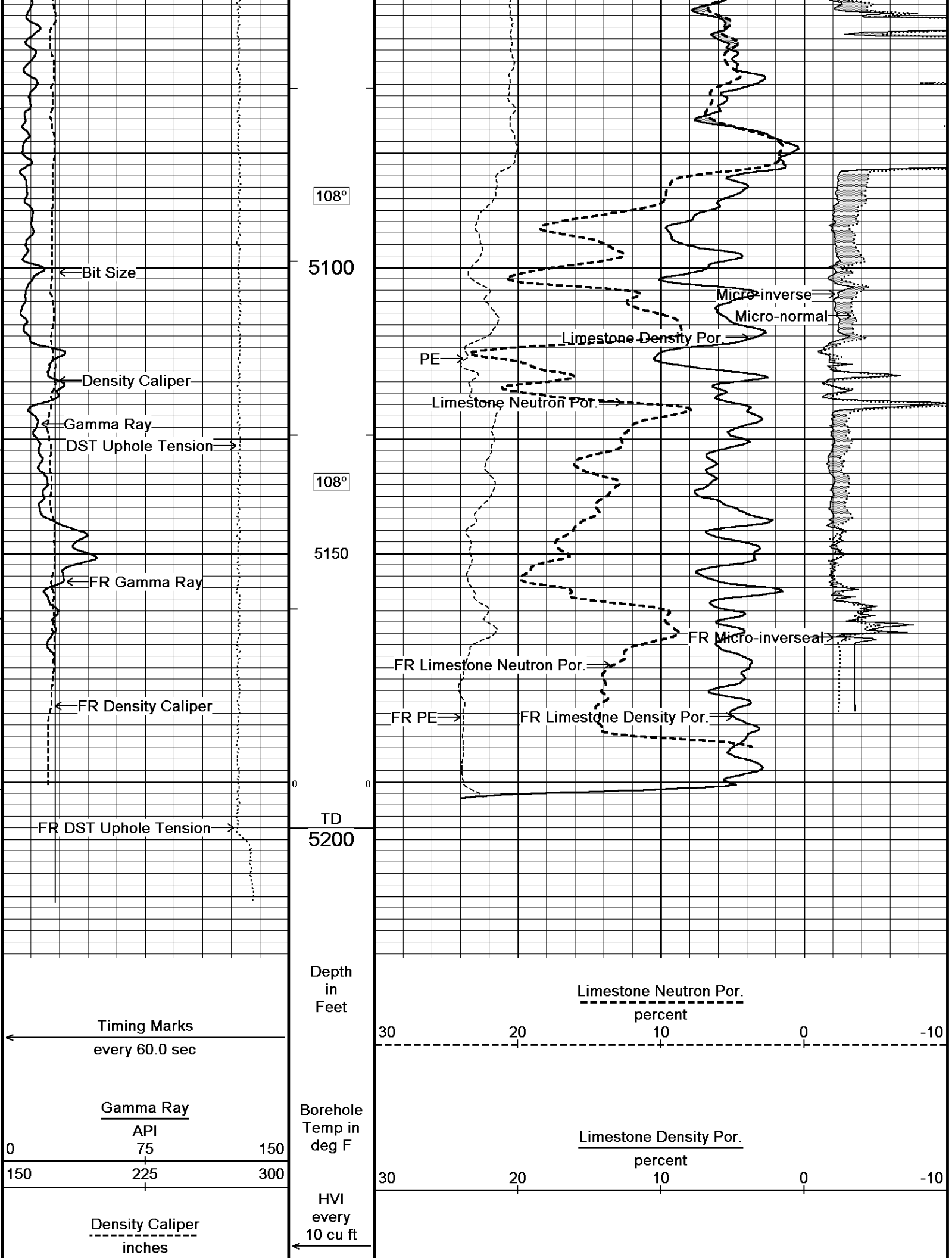
4750

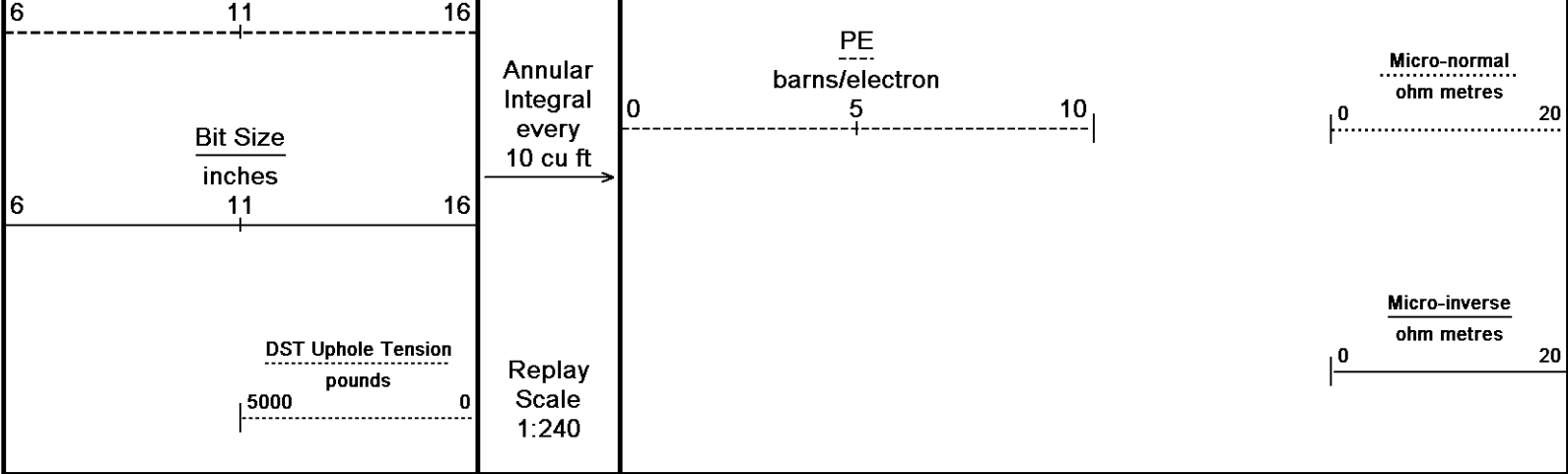
105°

4800









Depth Based Data - Maximum Sampling Increment 10.0cmPlotted on 18-NOV-2013 13:47

Filename: C:\Minimus 13.05.9583\Log\McCoy Petroleum ...McCoy Petroleum MTPRC 'A' 1-27 Main.dtaRecorded on 18-NOV-2013 11:06

System Versions: Logged with 13.05.9583Plotted with 13.05.9583

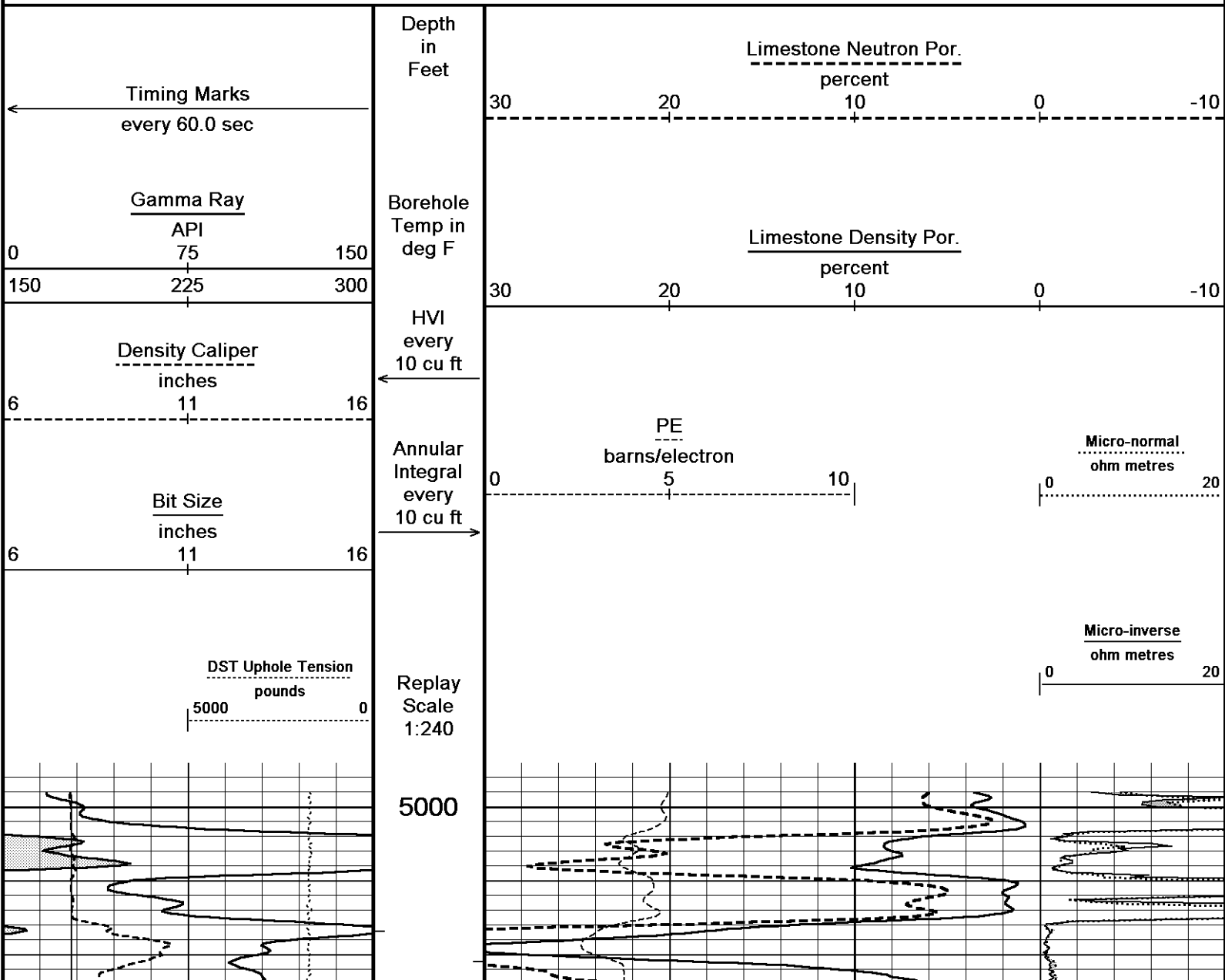
5 INCH MAIN

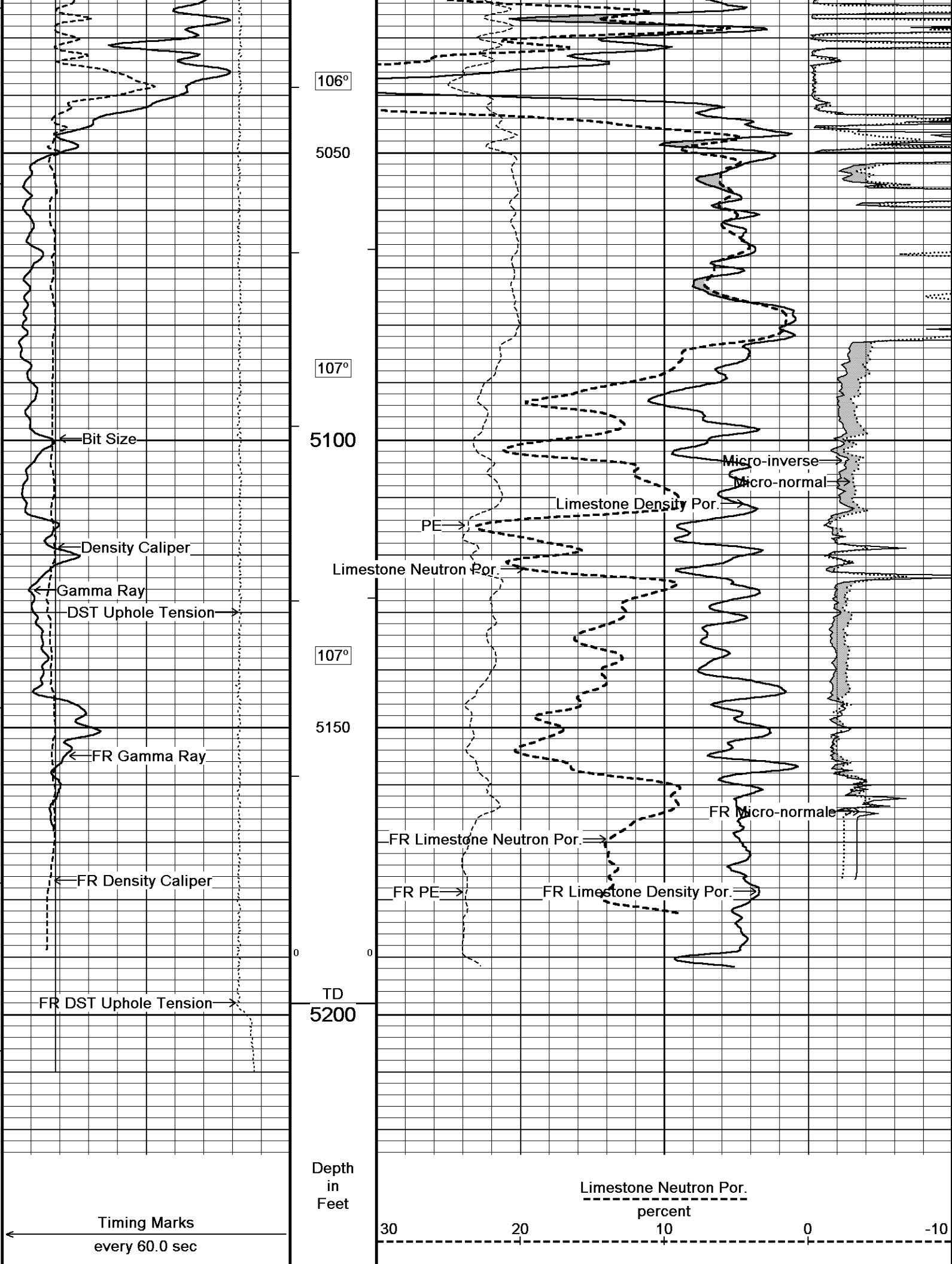
REPEAT SECTION

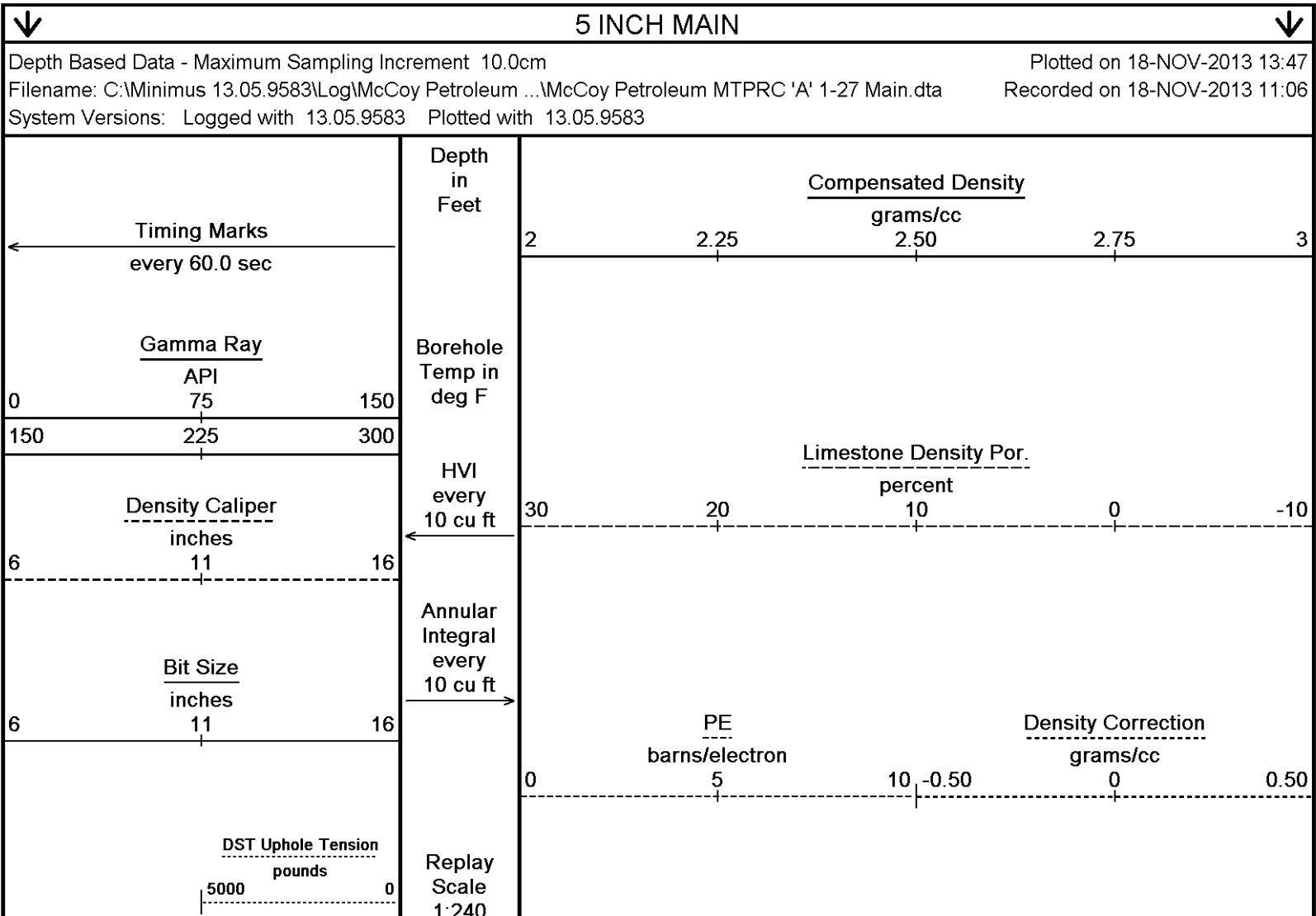
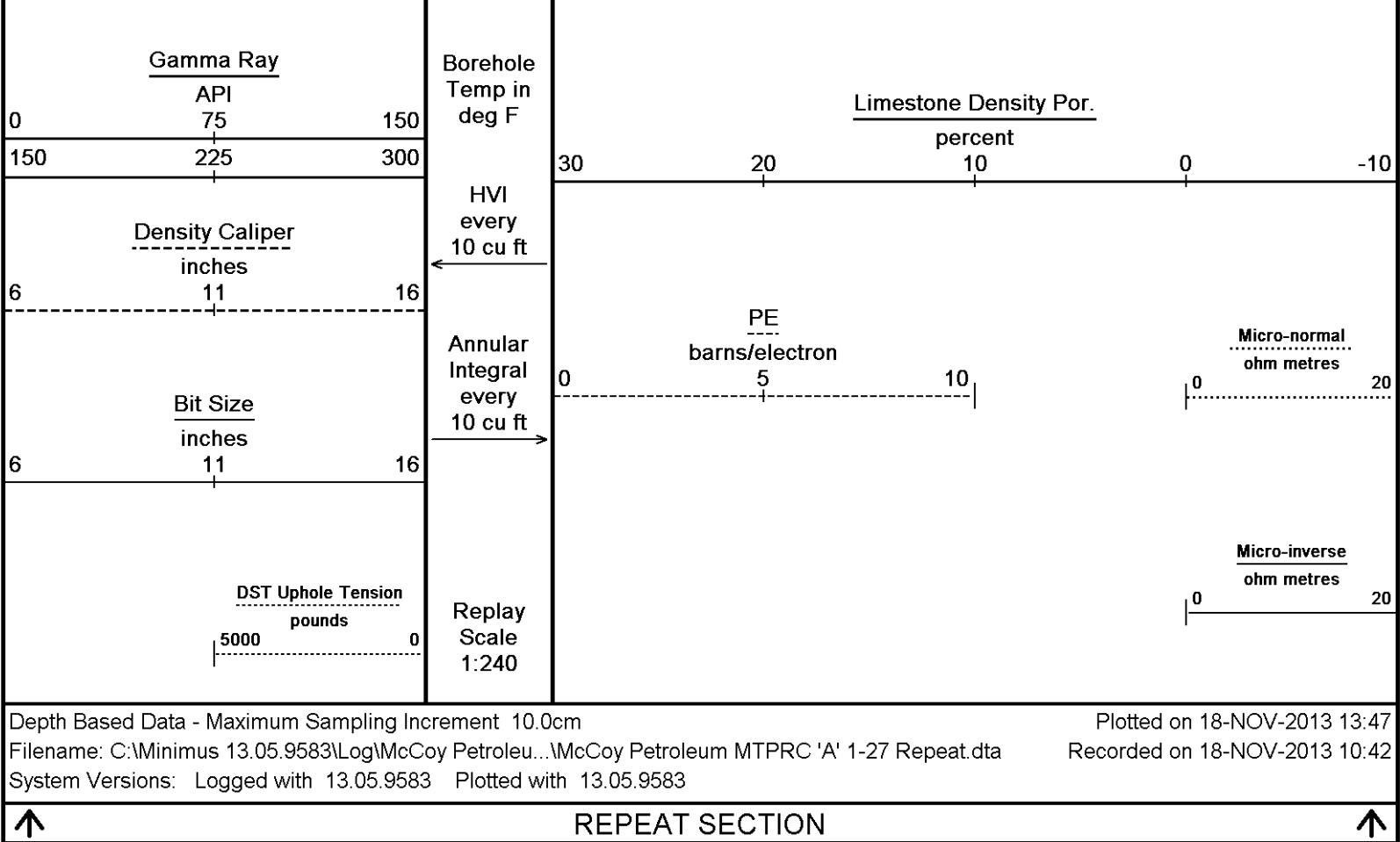
Depth Based Data - Maximum Sampling Increment 10.0cmPlotted on 18-NOV-2013 13:47

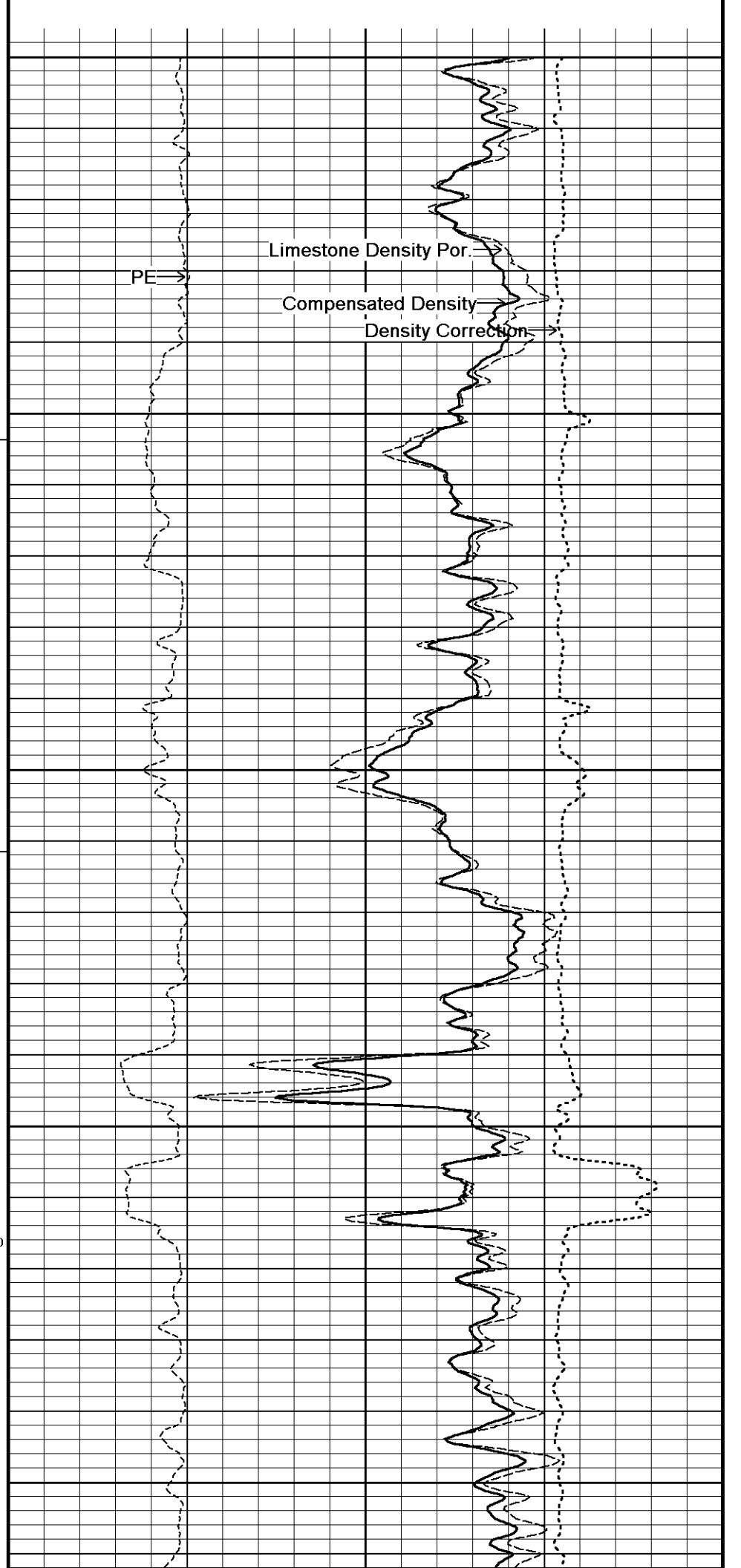
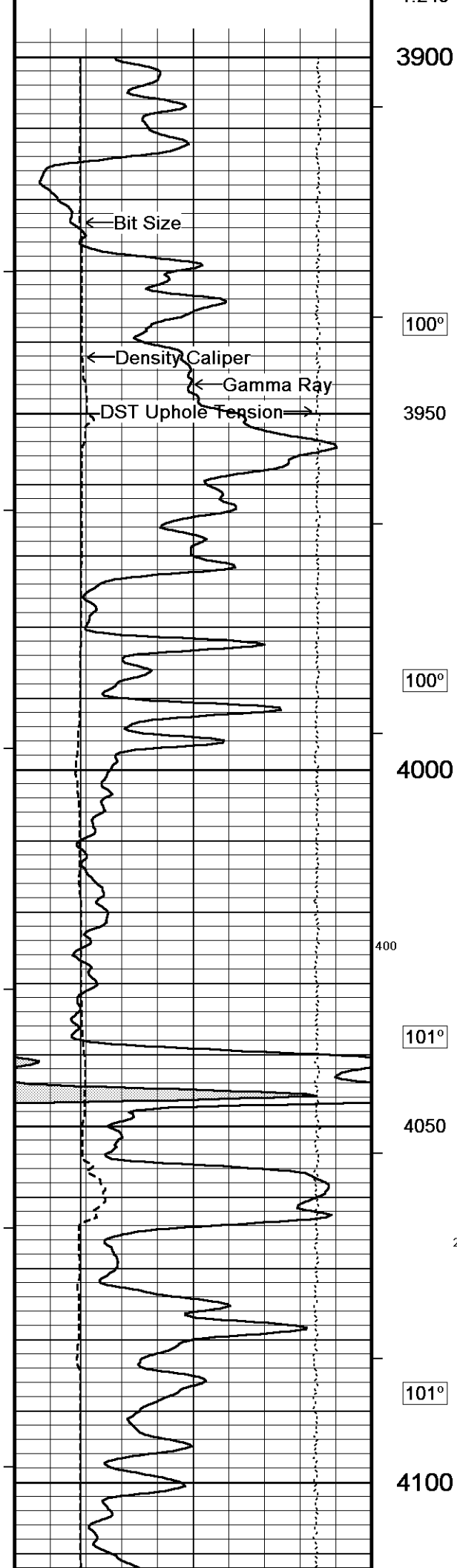
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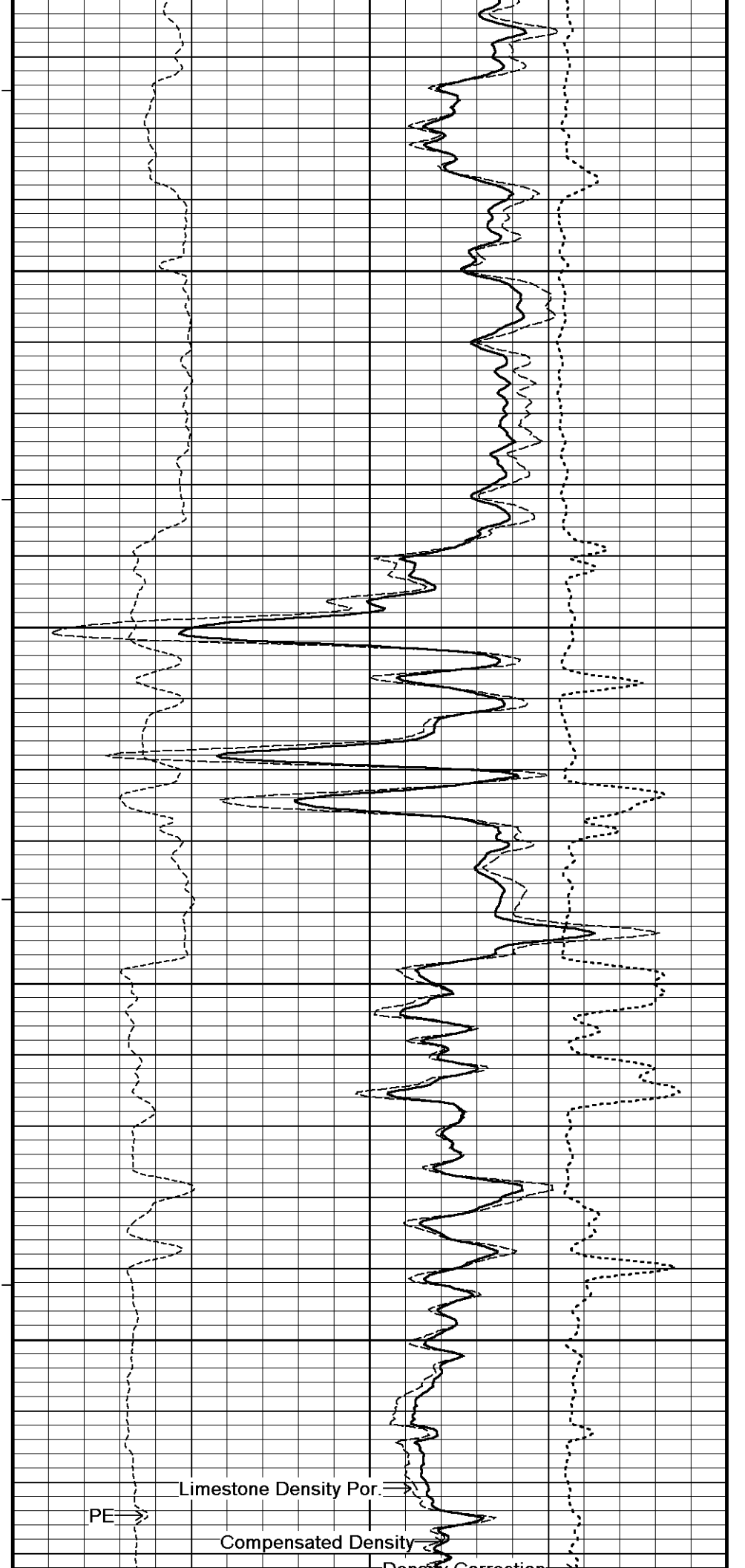
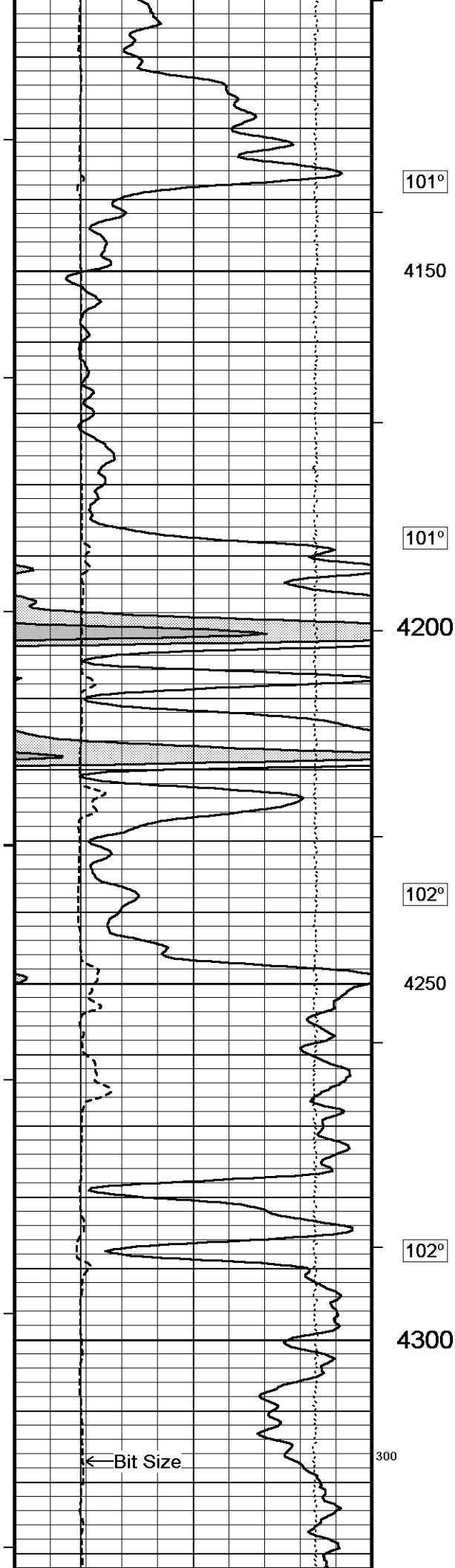
System Versions: Logged with 13.05.9583Plotted with 13.05.9583

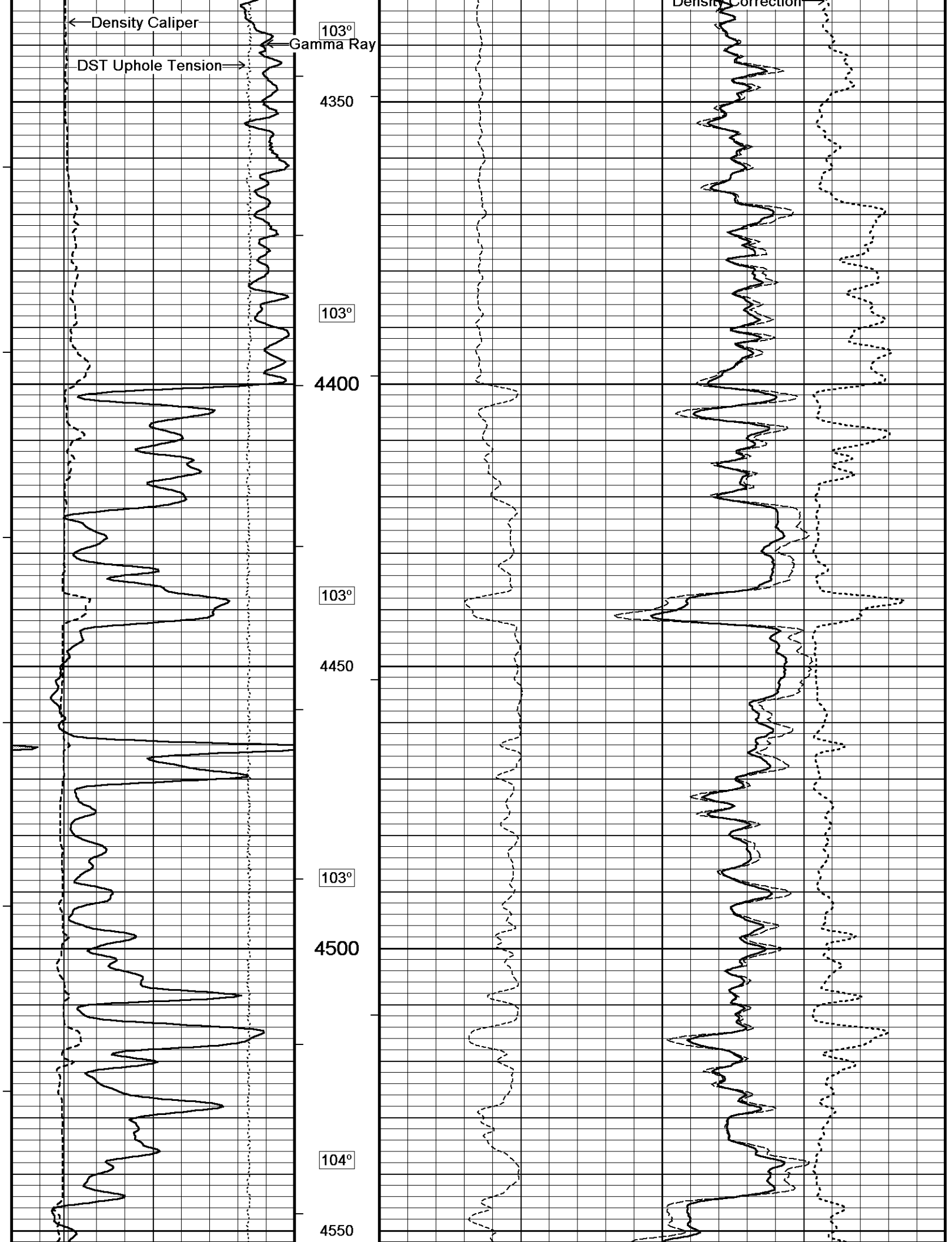


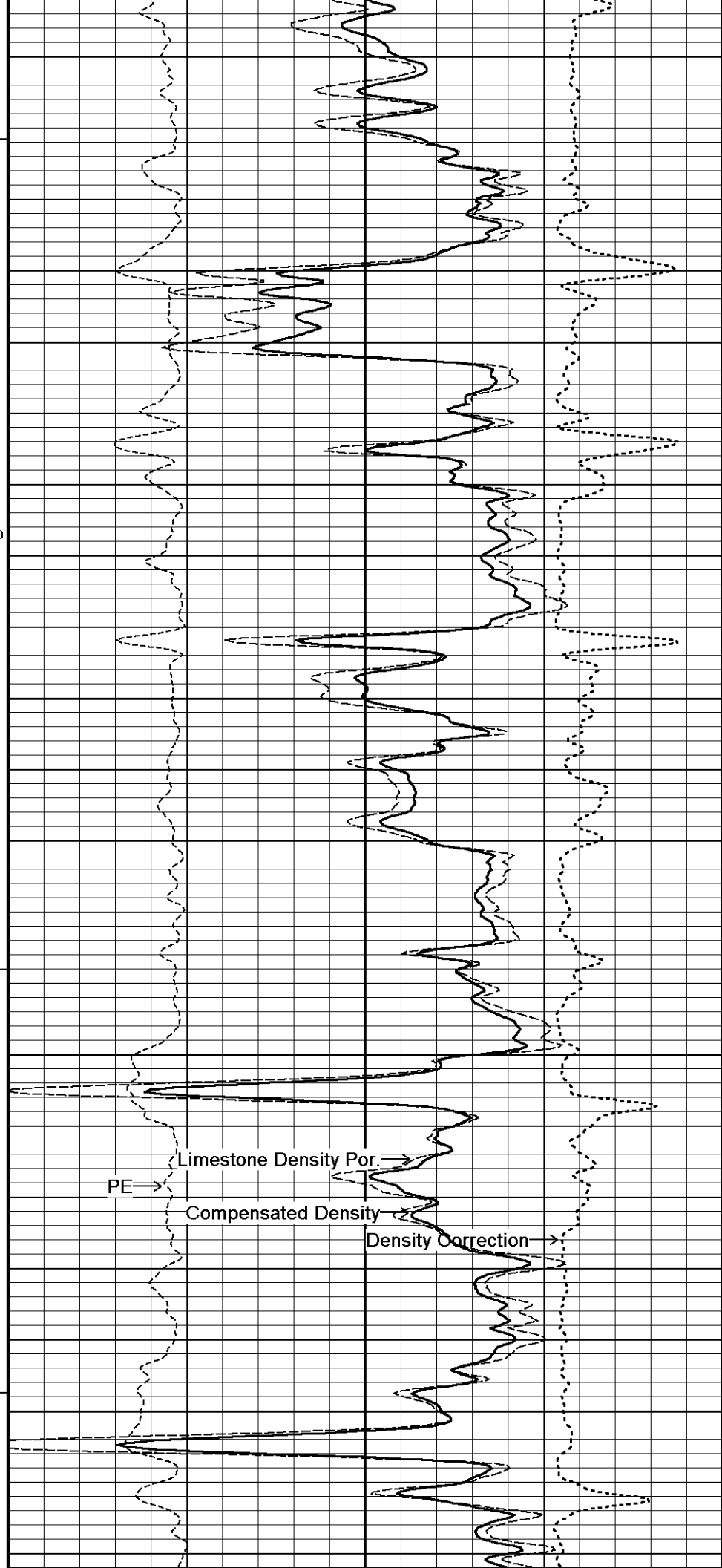
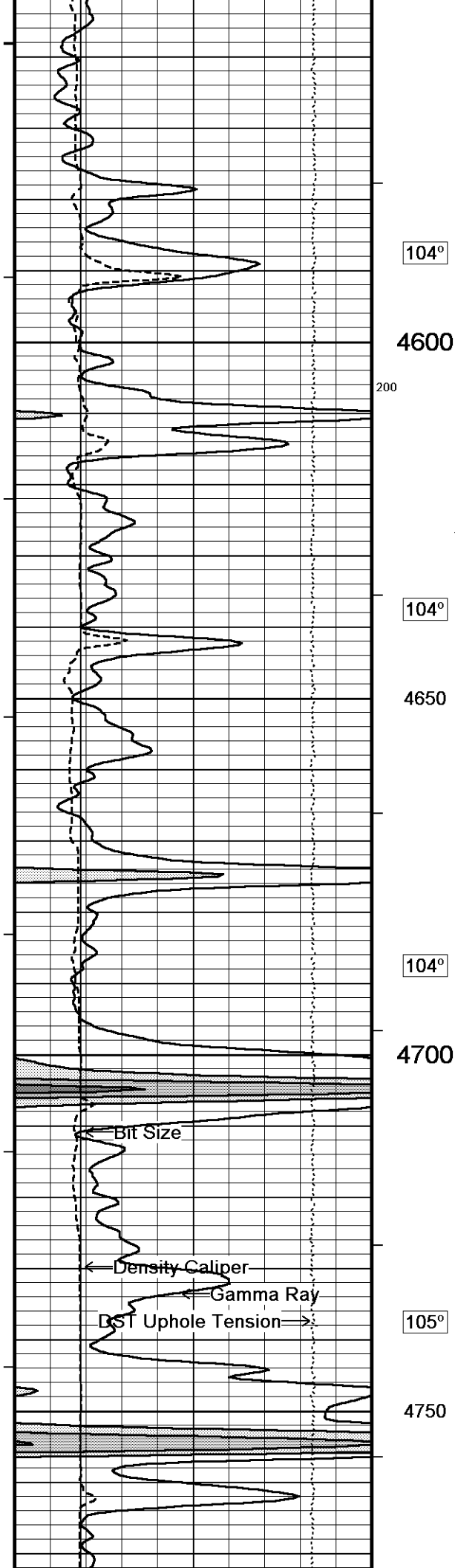


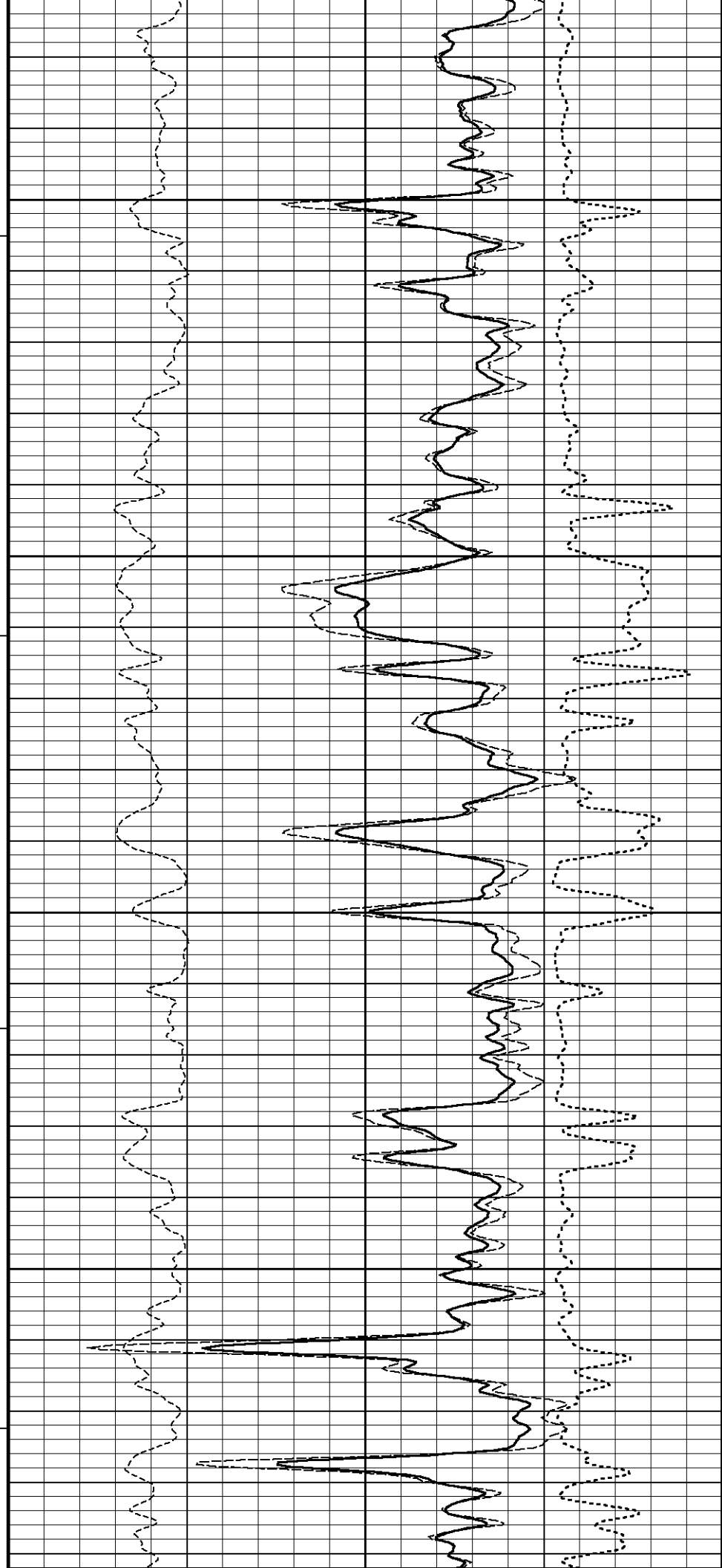
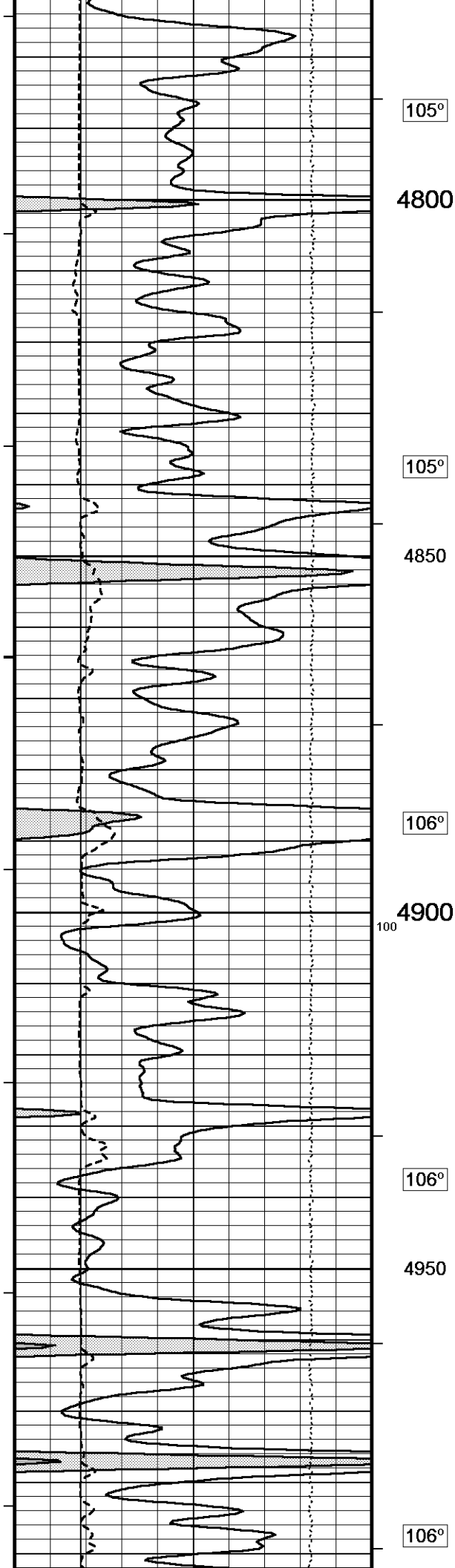


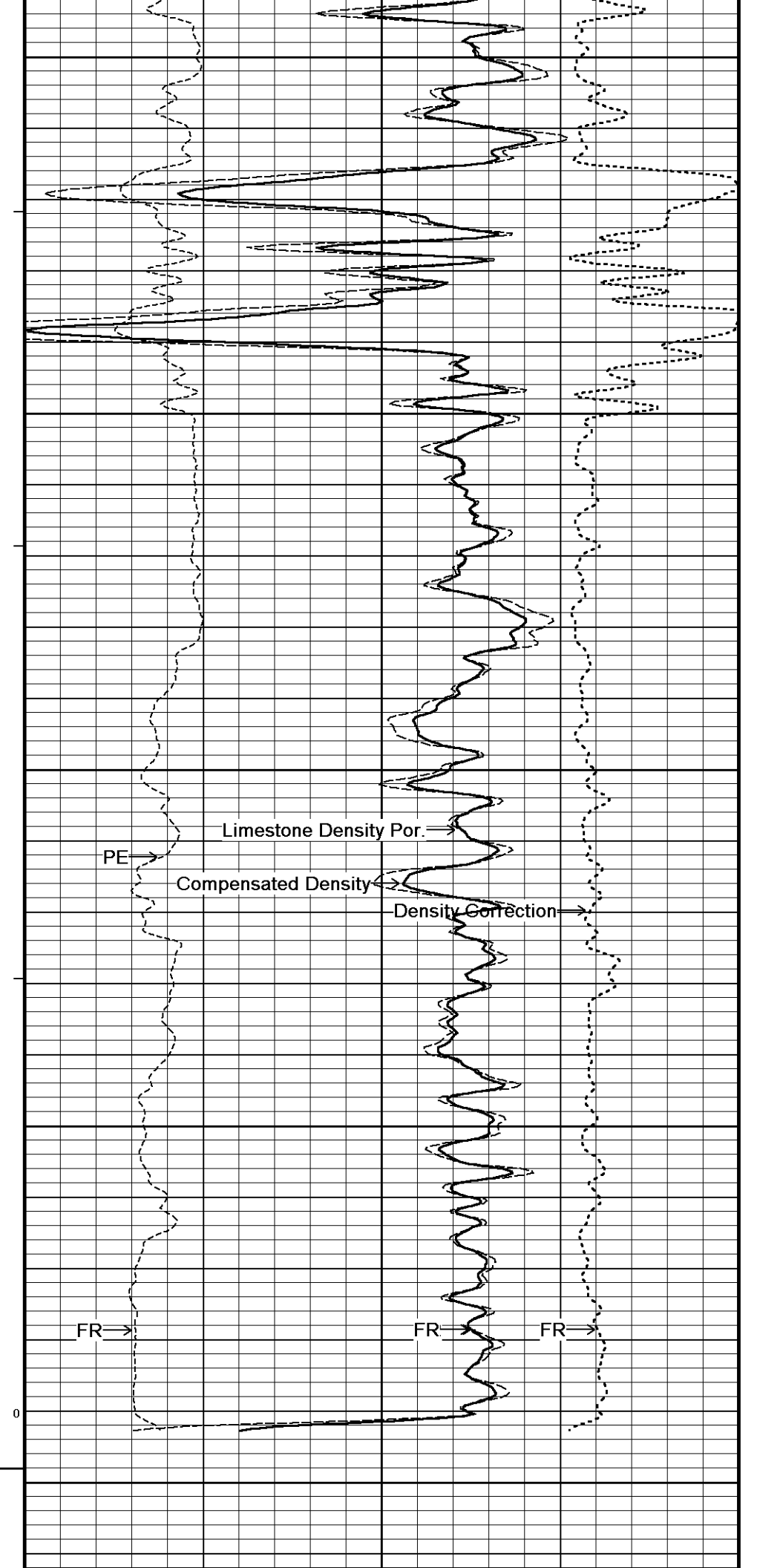
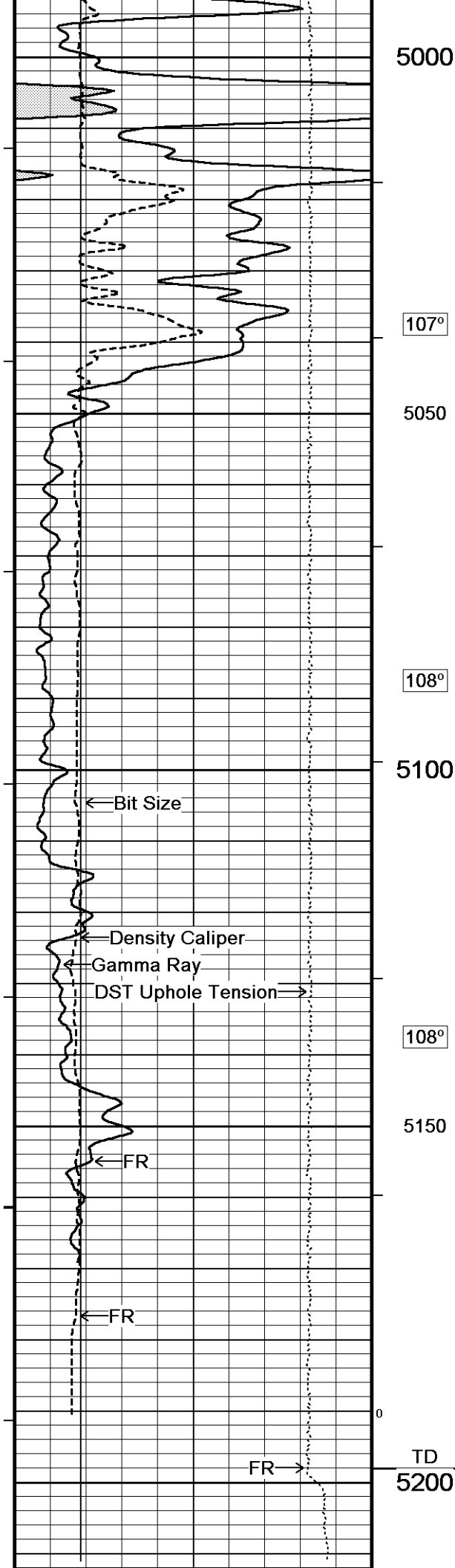


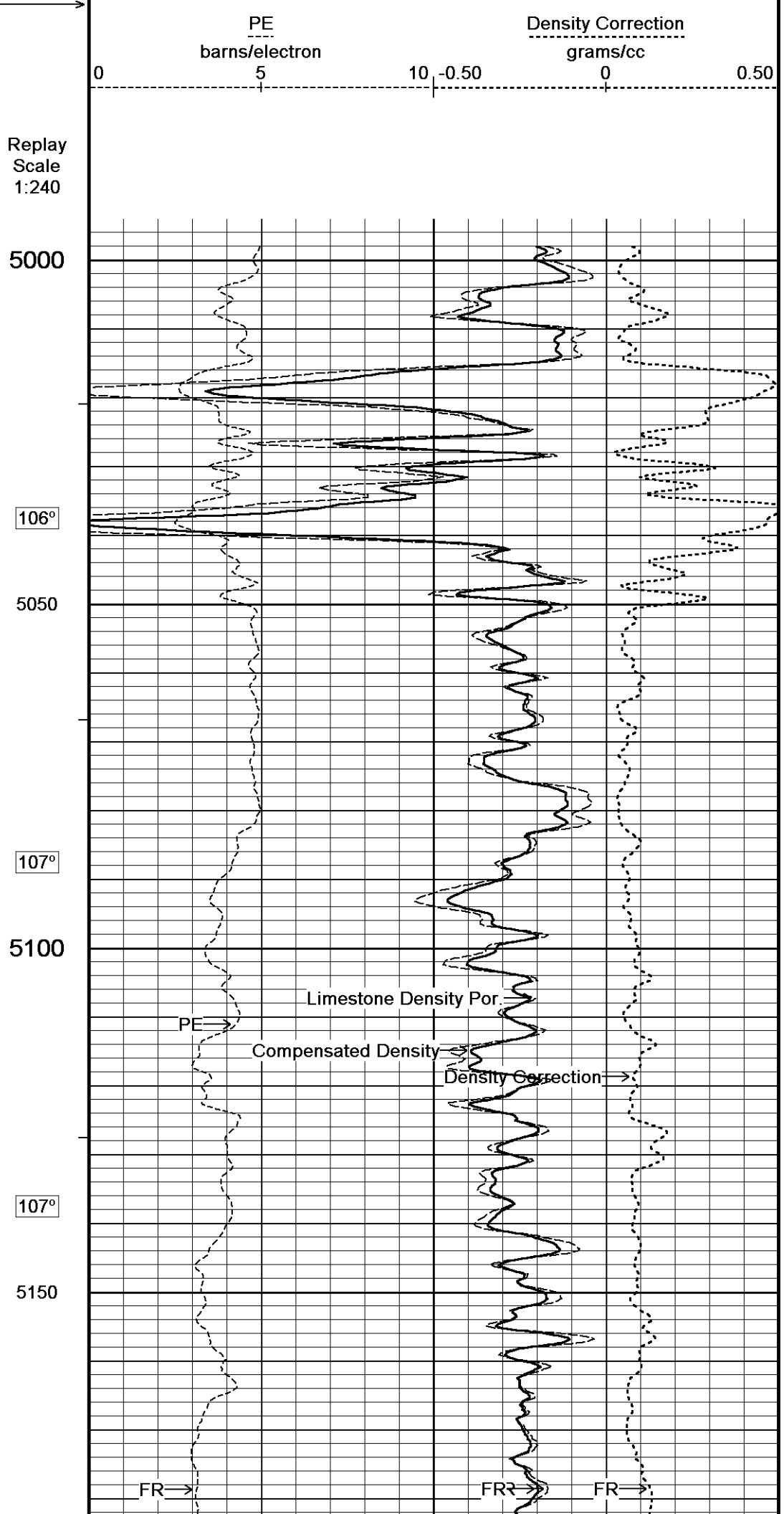
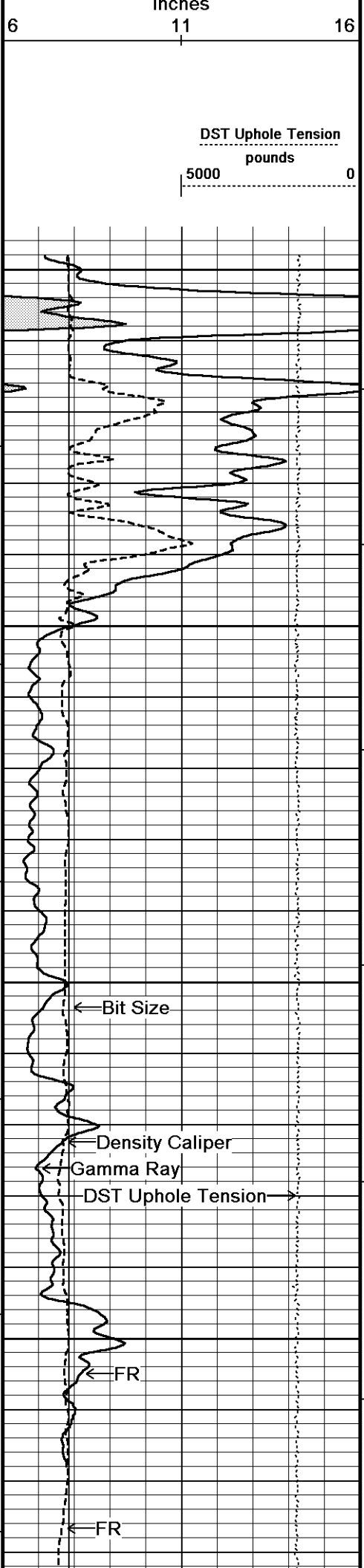


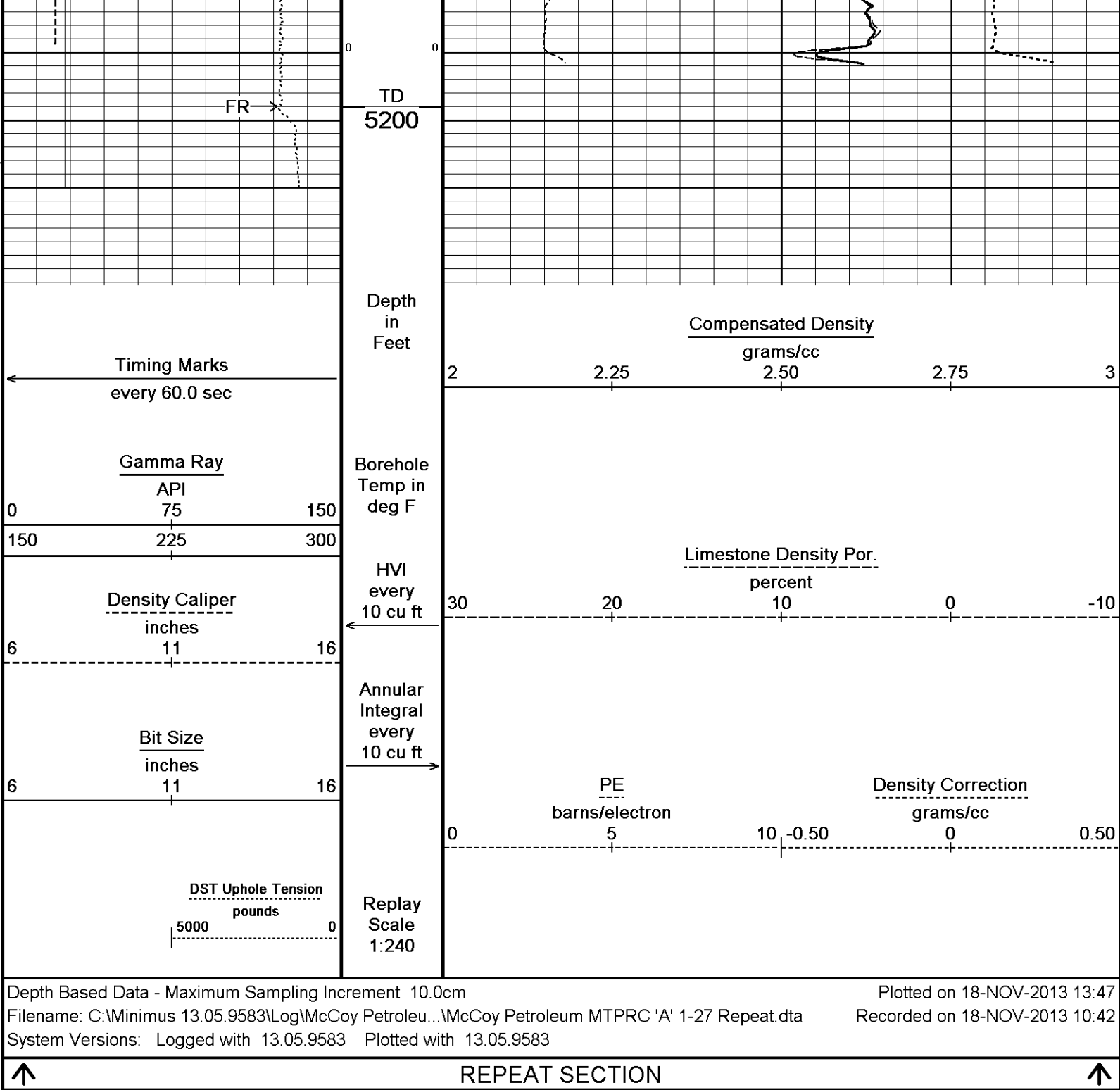












BEFORE SURVEY CALIBRATION		
C:\Minimus 13.05.9583\Log\McCoy Petroleum MTPRC 'A' 1-27\McCoy Petroleum MTPRC 'A' 1-27 Repeat.dta		
General Constants All 000		Last Edited on 18-NOV-2013,08:56
General Parameters		
Mud Resistivity	0.740	ohm-metres
Mud Resistivity Temperature	73.000	degrees F
Water Level	0.000	feet
Borehole Fluid 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	MMI Caliper	

Caliper for Differential Caliper				
Rwa Parameters				
Porosity used	Base Density Porosity			
Resistivity used	Array Ind. Six Res Rt			
RWA Constant A	1.000			
RWA Constant M	2.000			
SW/APOR Tool Source	0.000			
Gamma Calibration MCG-D.K 469				
Field Calibration on 17-NOV-2013 01:27				
	Measured	Calibrated (API)		
Background	67	46		
Calibrator (Gross)	1139	771		
Calibrator (Net)	1072	725		
Gamma Constants MCG-D.K 469				
Last Edited on 17-NOV-2013,05:35				
Gamma Calibrator Number	GRC38			
Mud Density	1.12	gm/cc		
Caliper Source for Processing	Density Caliper			
Tool Position	Eccentred			
Concentration of KCl		kppm		
K Mud Type	Chloride			
K Mud Concentration	0.00	%		
High Resolution Temperature Calibration MCG-D.K 469				
Field Calibration on 18-AUG-2013,02:35				
	Measured	Calibrated(Deg F)		
Lower	50.00	50.00		
Upper	100.00	100.00		
High Resolution Temperature Constants MCG-D.K 469				
Last Edited on 18-AUG-2013,02:35				
Pre-filter Length	11			
Photo Density Calibration MPD-C.A 216				
Base Calibration on 04-NOV-2013,14:26				
Field Check on 17-NOV-2013 01:19				
Density Calibration				
Base Calibration				
		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	53102	19935	52888	19096
Reference 2	25779	2814	25270	2567
Field Check at Base				
	1121.7	1316.5		
Field Check				
	1117.6	1313.8		
PE Calibration				
Base Calibration				
	WS	Measured WH	Calibrated Ratio	
		Ratio		
Background	205	1001		
Reference 1	18282	52929	0.348	0.309
Reference 2	7413	25647	0.292	0.273
Field Check at Base				
	204.5	1000.7		
Field Check				
	203.9	997.5		
Density Constants MPD-C.A 216				
Last Edited on 17-NOV-2013,05:27				
Density Source Id	18235B			
Nylon Calibrator Number	DNCE528			
Aluminium Calibrator Number	DACD528			
Density Shoe Profile	8 inch			
Caliper Source for Processing	Density Caliper			
PE Correction to Density	Not Applied			
Mud Density	1.12	gm/cc		
Mud Density Z/A Multiplier	1.11			
Mud Filtrate Density	1.00	gm/cc		

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 (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-C.A 216

Base Calibration on 03-NOV-2013 23:03

Field Calibration on 17-NOV-2013 01:14

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	16494	4.01
2	26560	5.96
3	36690	7.98
4	46752	9.95
5	57360	11.91
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.95	7.97

DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Log\McCoy Petroleum MTPRC 'A' 1-27\McCoy Petroleum MTPRC 'A' 1-27 Repeat.dta

Compact Comms Gamma
MCG-D.K 469 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 3 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

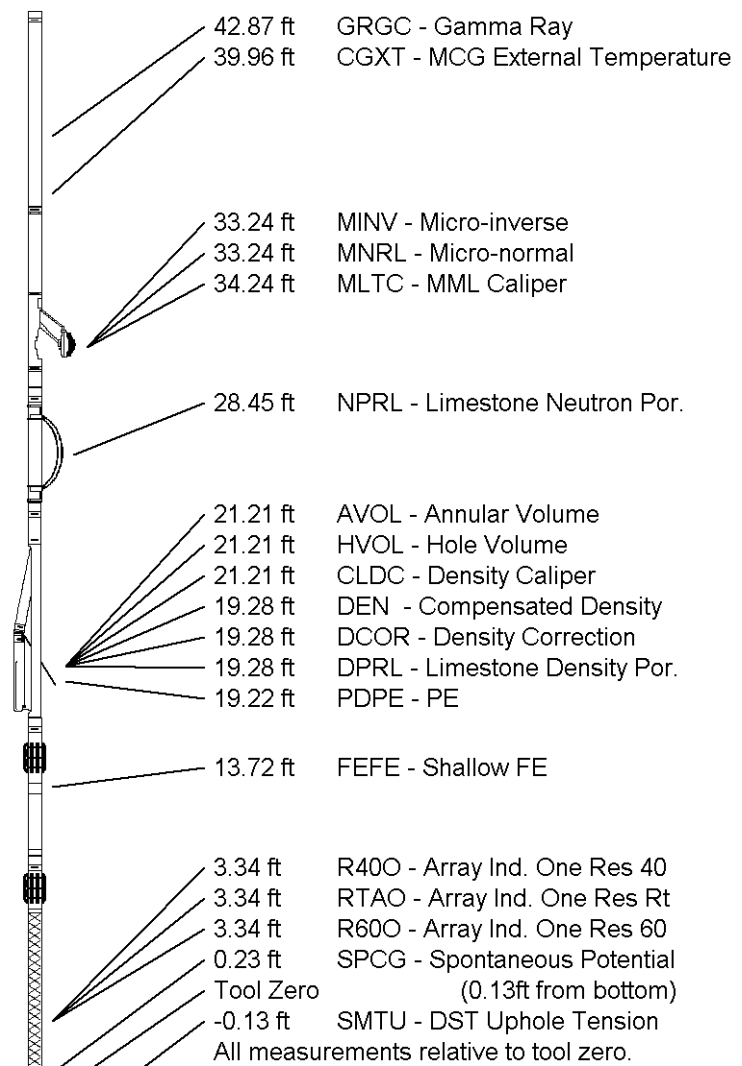
Compact Neutron
MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric
MFE-B.J 353 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 167 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 48.16 ft Weight: 383.6 lb



COMPANY	MCCOY PETROLEUM CORPORATION
WELL	MTPRC 'A' #1-27
FIELD	ALFORD SOUTH
PROVINCE/COUNTY	KIOWA
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2224.00	feet	First Reading	5179.00	feet
Elevation Drill Floor	2222.00	feet	Depth Driller	5200.00	feet
Elevation Ground Level	2213.00	feet	Depth Logger	5198.00	feet



COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG