



Weatherford

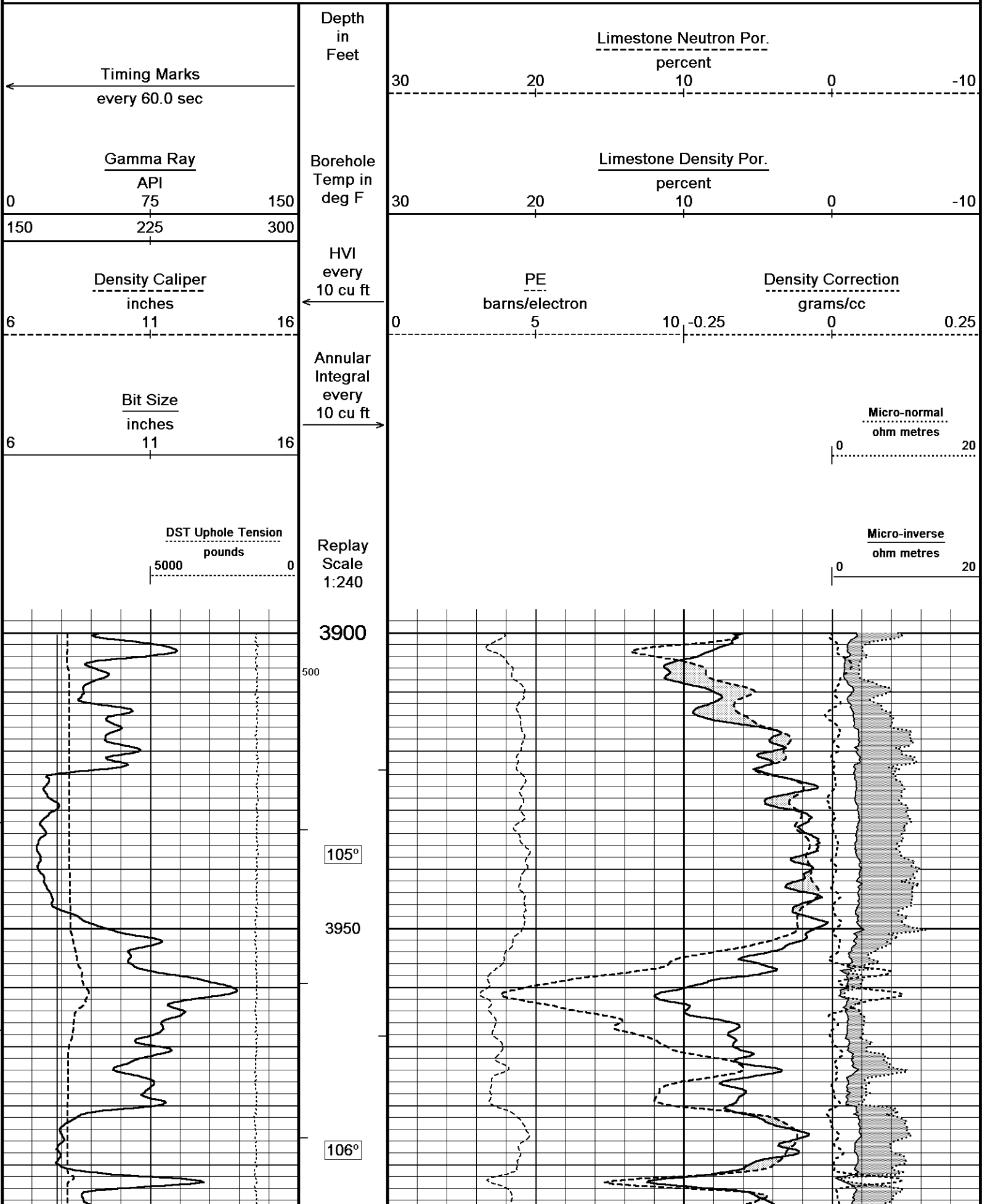
**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

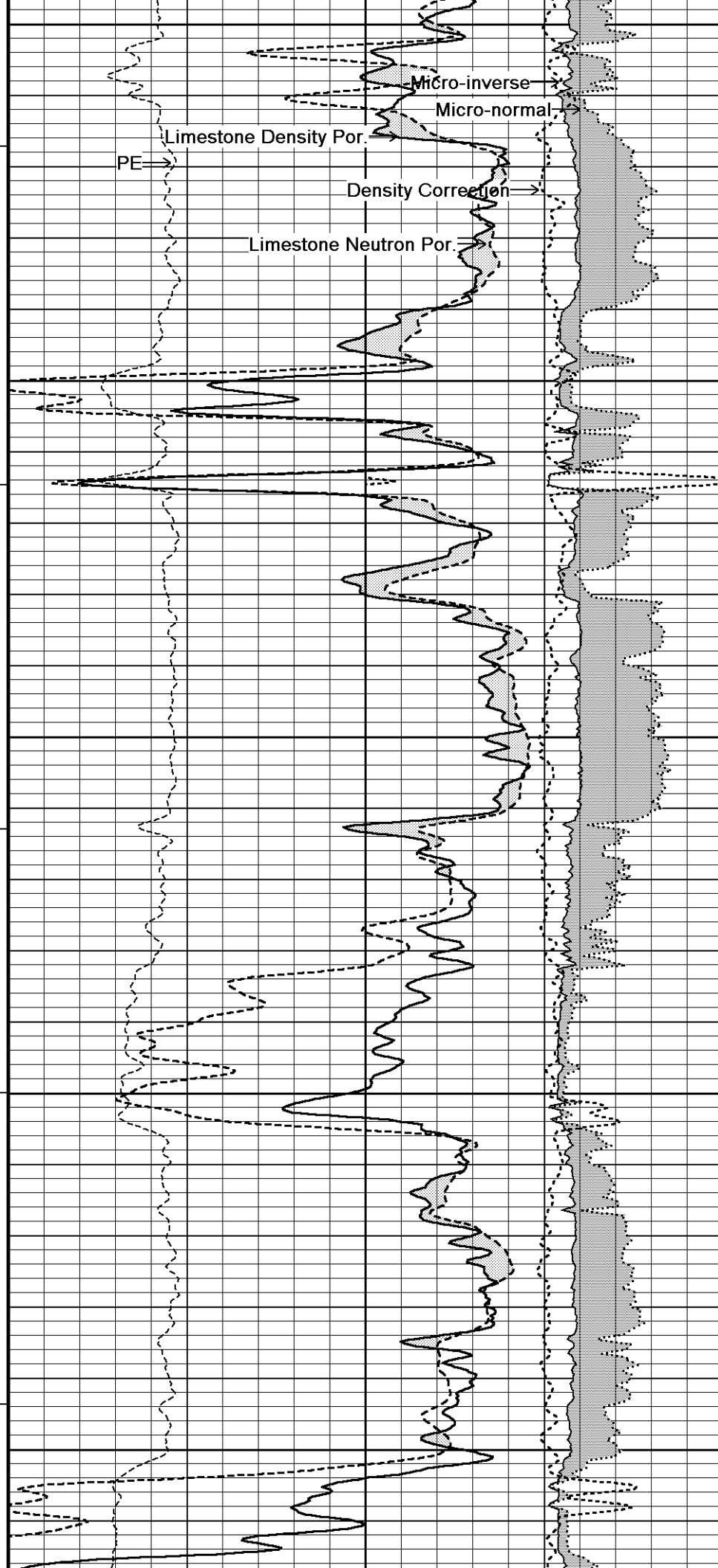
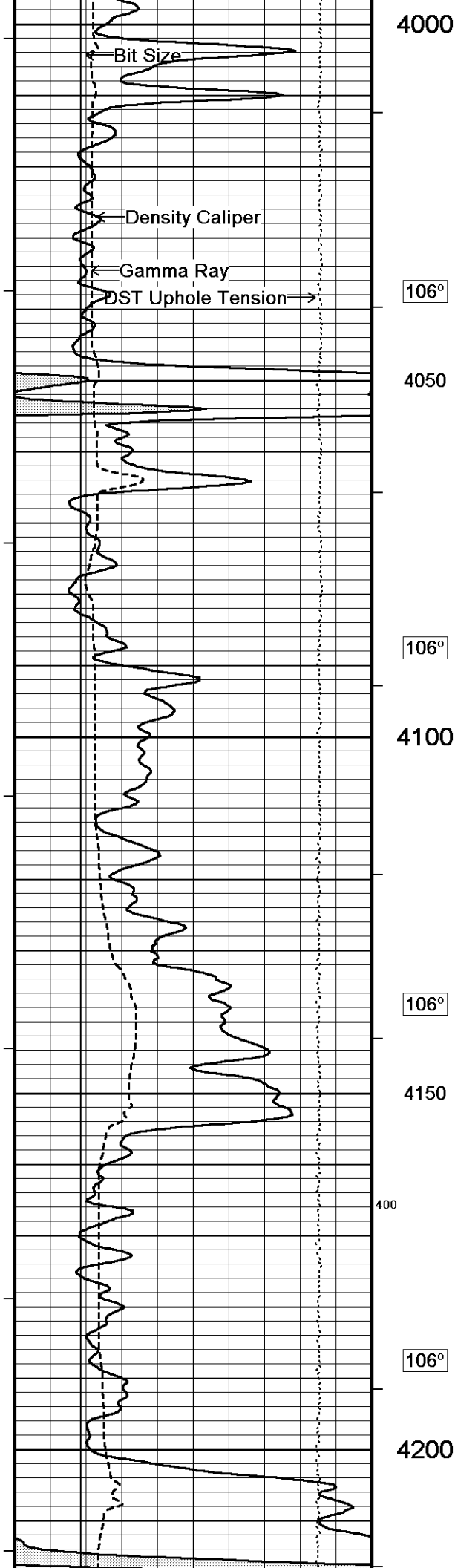
COMPANY	MCCOY PETROLEUM CORP.				
WELL	MCKINNEY TRUST 'A' #1-23				
FIELD	ALFORD				
PROVINCE/COUNTY	KIOWA				
COUNTRY/STATE	U.S.A. / KANSAS				
LOCATION	1980' FSL & 2310' FEL				
SEC	TWP	RGE	Other Services		
23	30S	19W	MAI/MFE		
API Number	15-097-21735				
Permit Number					
Permanent Datum G.L., Elevation 2232 feet			Elevations:		
Log Measured From KB			KB 2241.00		
Drilling Measured From K.B. @ 9 FEET			DF 2239.00		
			GL 2232.00		
Date	02-SEP-2012				
Run Number	ONE				
Depth Driller	5225.00		feet		
Depth Logger	5226.00		feet		
First Reading	5207.00		feet		
Last Reading	3900.00		feet		
Casing Driller	640.00		feet		
Casing Logger	639.00		feet		
Bit Size	7.875		inches		
Hole Fluid Type	CHEMICAL				
Density / Viscosity	1.13	g/cc	49.00	CP	
PH / Fluid Loss	9.00		11.00	ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.56 @ 88.0		ohm-m		
Rmf @ Measured Temp	0.45 @ 88.0		ohm-m		
Rmc @ Measured Temp	0.67 @ 88.0		ohm-m		
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.44 @ 113.0		ohm-m		
Time Since Circulation	4 HOURS				
Max Recorded Temp	113.00		deg F		
Equipment Name	COMPACT				
Equipment / Base	13057		LIB		
Recorded By	R.HOFFMAN				
Witnessed By	ROBERT HENDRIX				
S.O. # / JOB #	3537837		LB12-239		

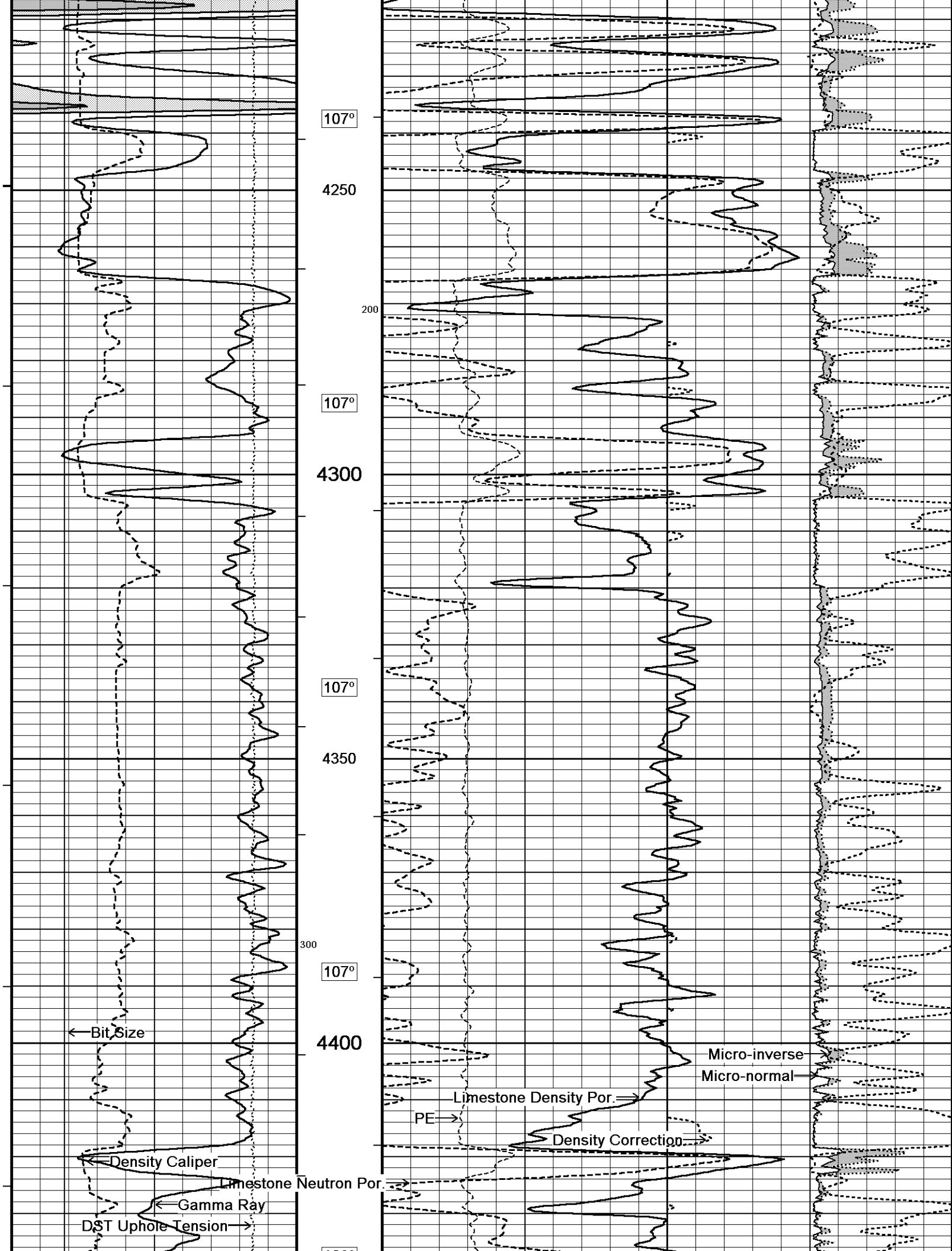
BOREHOLE RECORD				Last Edited: 02-SEP-2012 10:37
Bit Size inches		Depth From feet		Depth To feet
7.875		639.00		5226.00
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	639.00	24.00

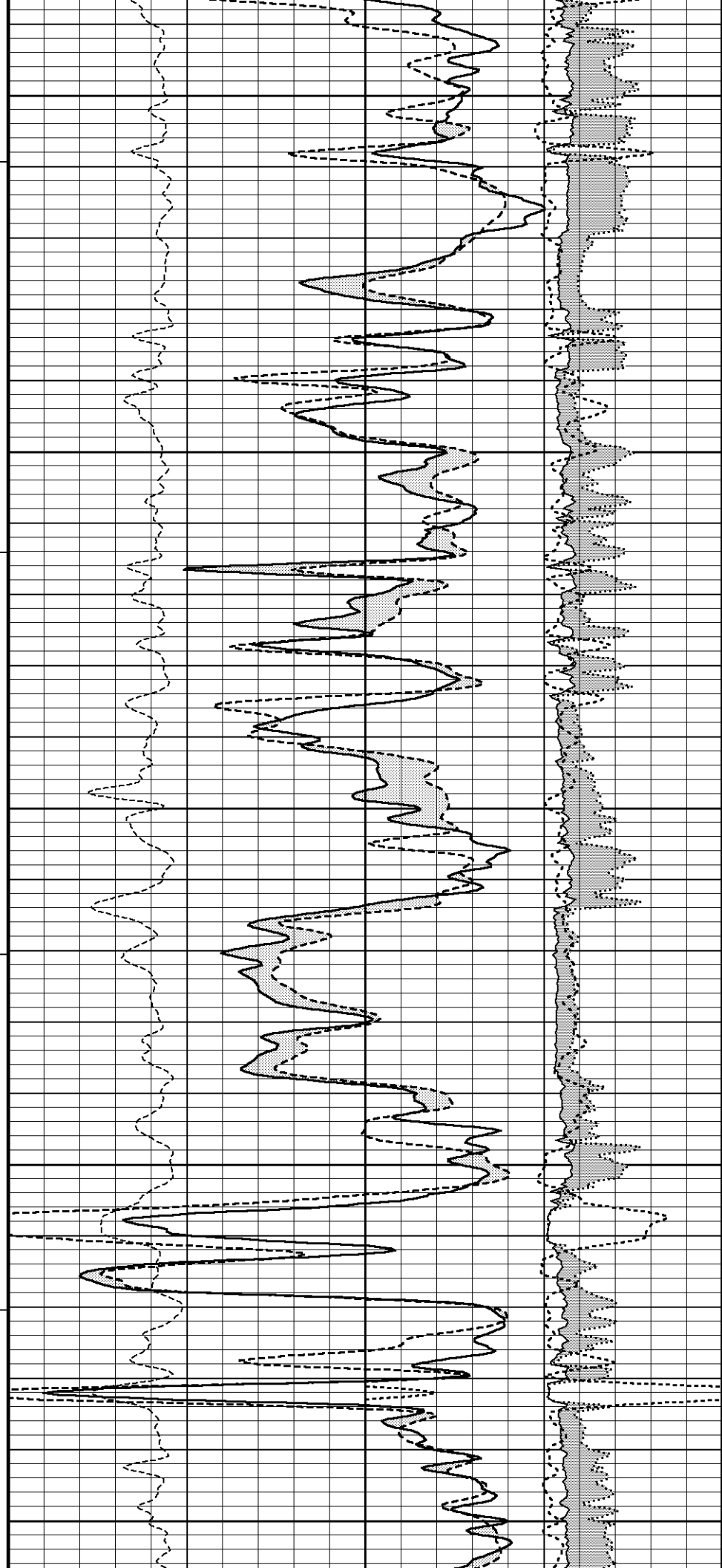
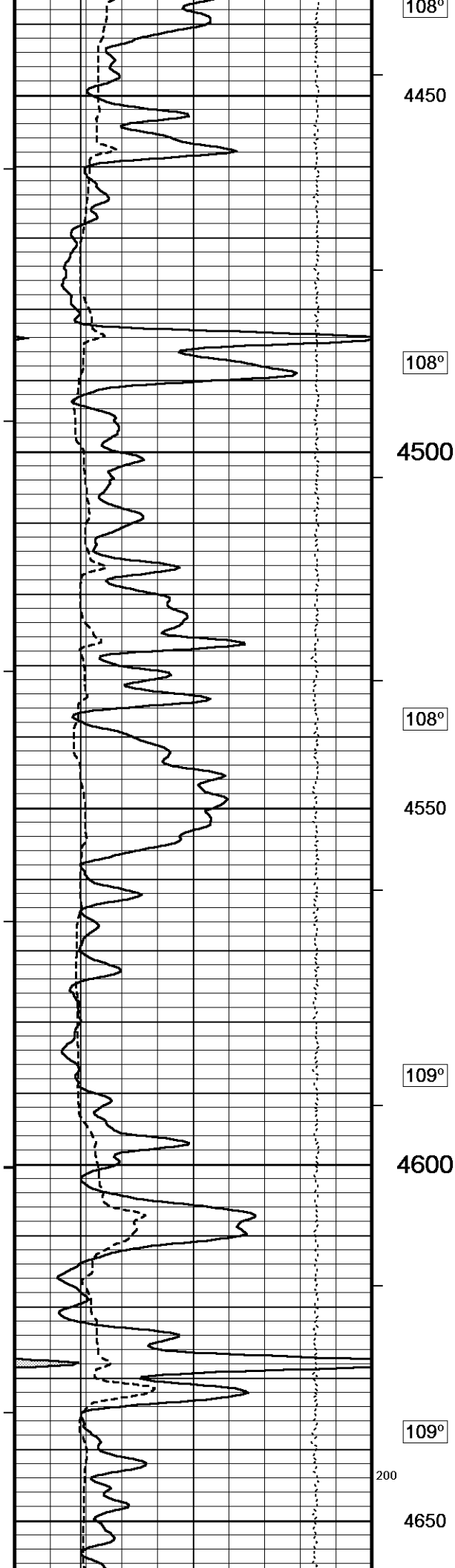
REMARKS
Tools Ran: MCG, MML, MDN, MPD, MFE, MAI. Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE and MAI 0.5 inch standoffs used. 2.71 g/cc Limestone Density Matrix used to calculate porosity. All intervals logged and scaled per customer's request. Tight pulls, washouts and borehole rugosity will affect data quality. Annular volume with 5.5 inch production casing TD to 3900ft = 286 cu. ft. Service order: #3537837 Rig: Sterling Drilling Rig #4 Engineer: R. Hoffman Operator(s): B. Reeves

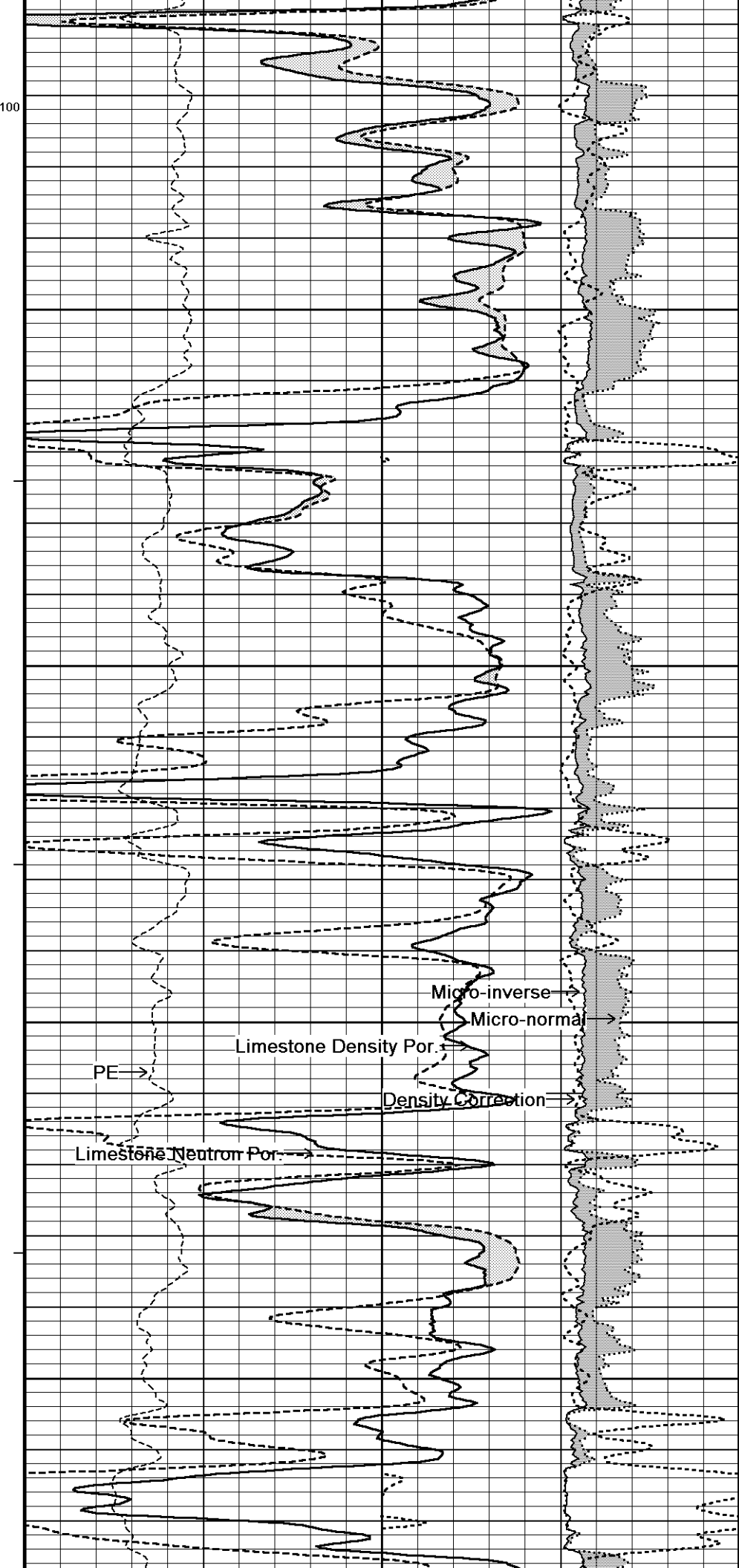
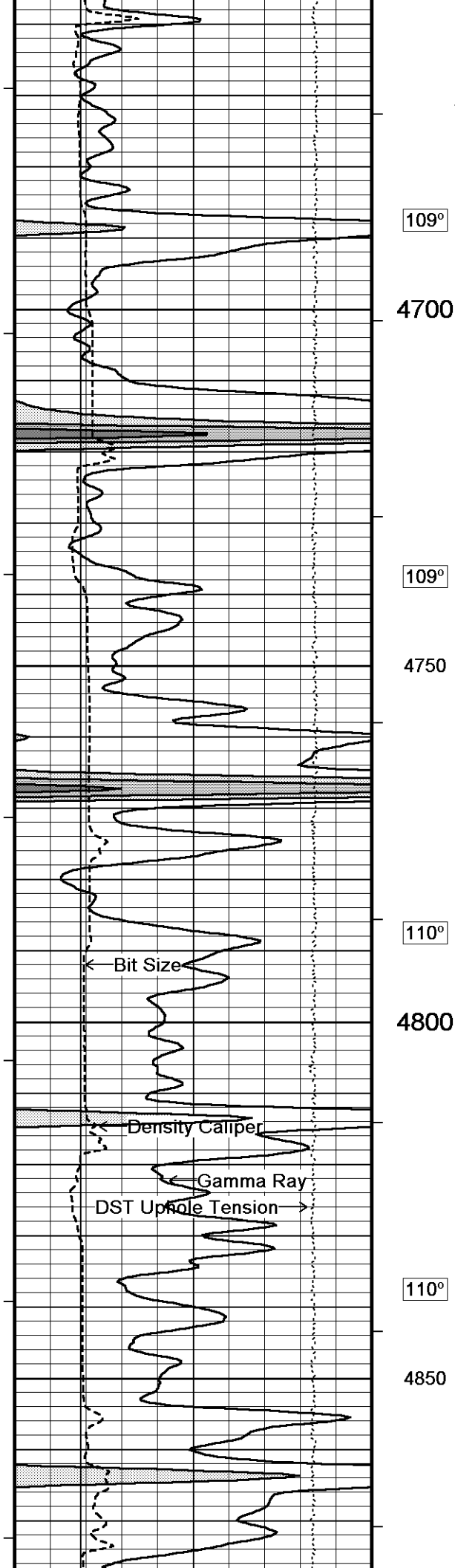
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

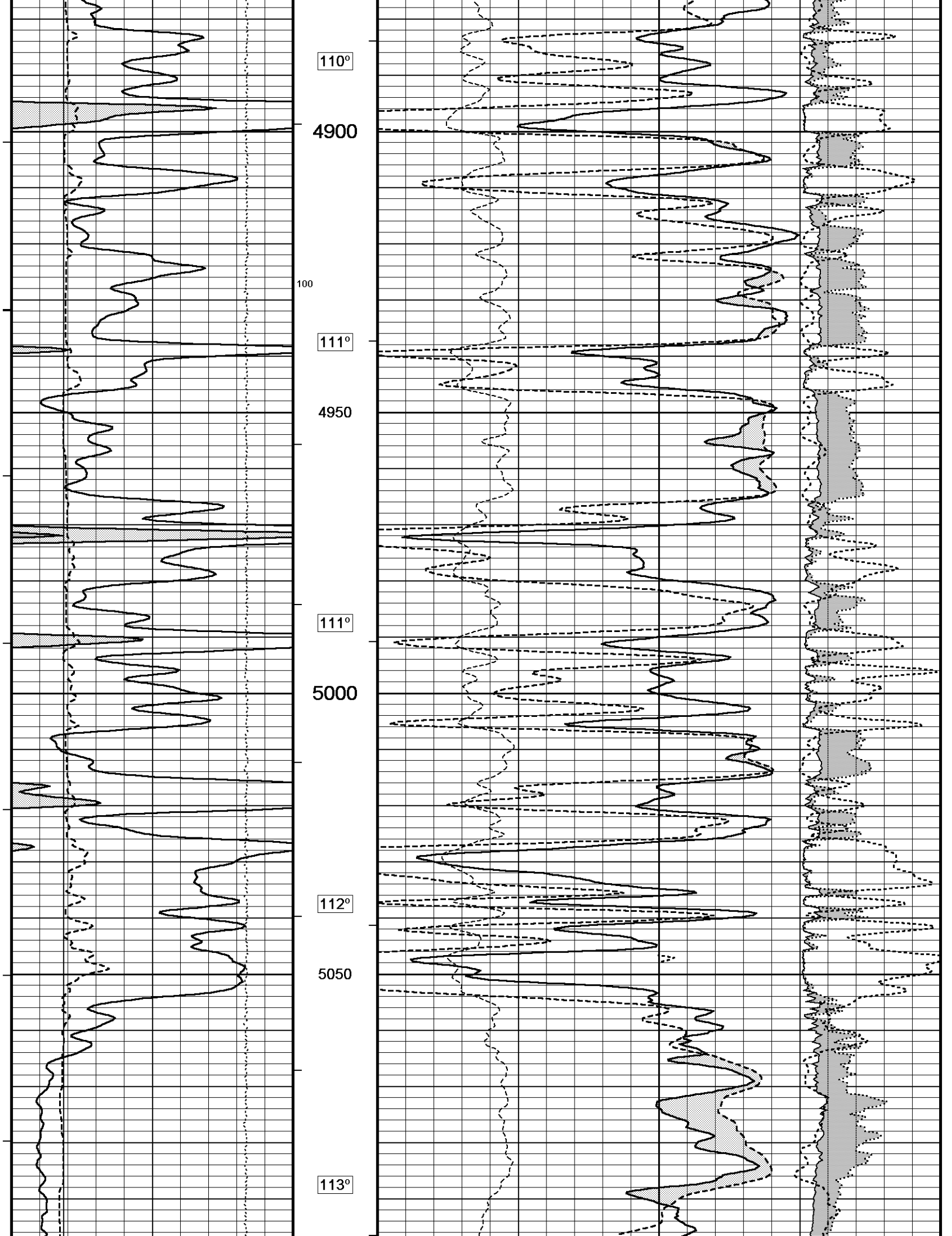


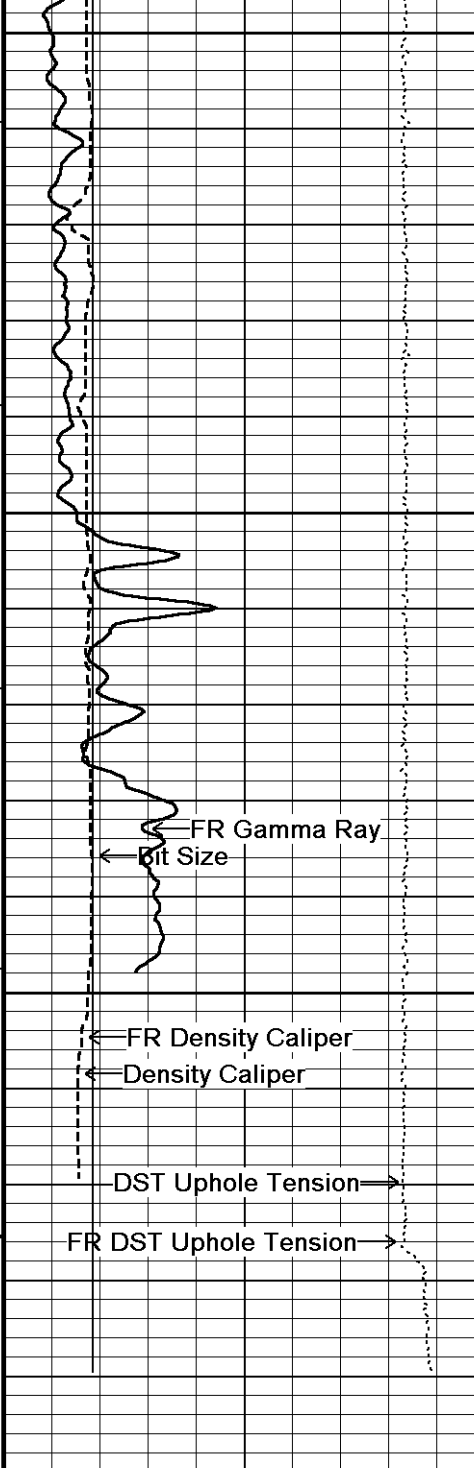




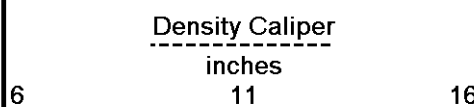
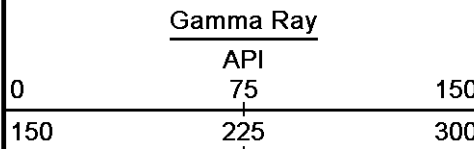








Timing Marks
every 60.0 sec



Bit Size

5100

113°

5150

113°

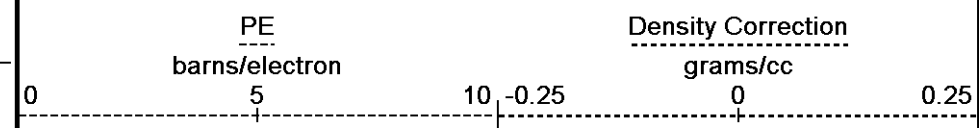
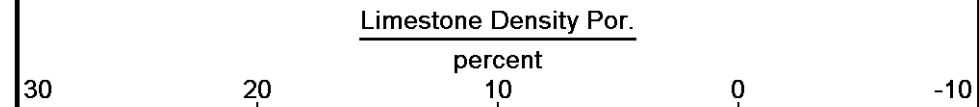
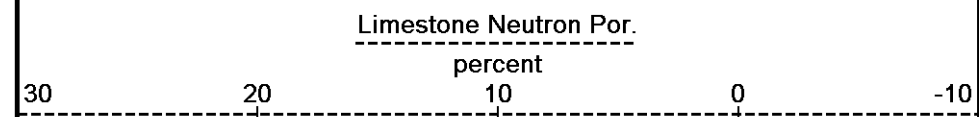
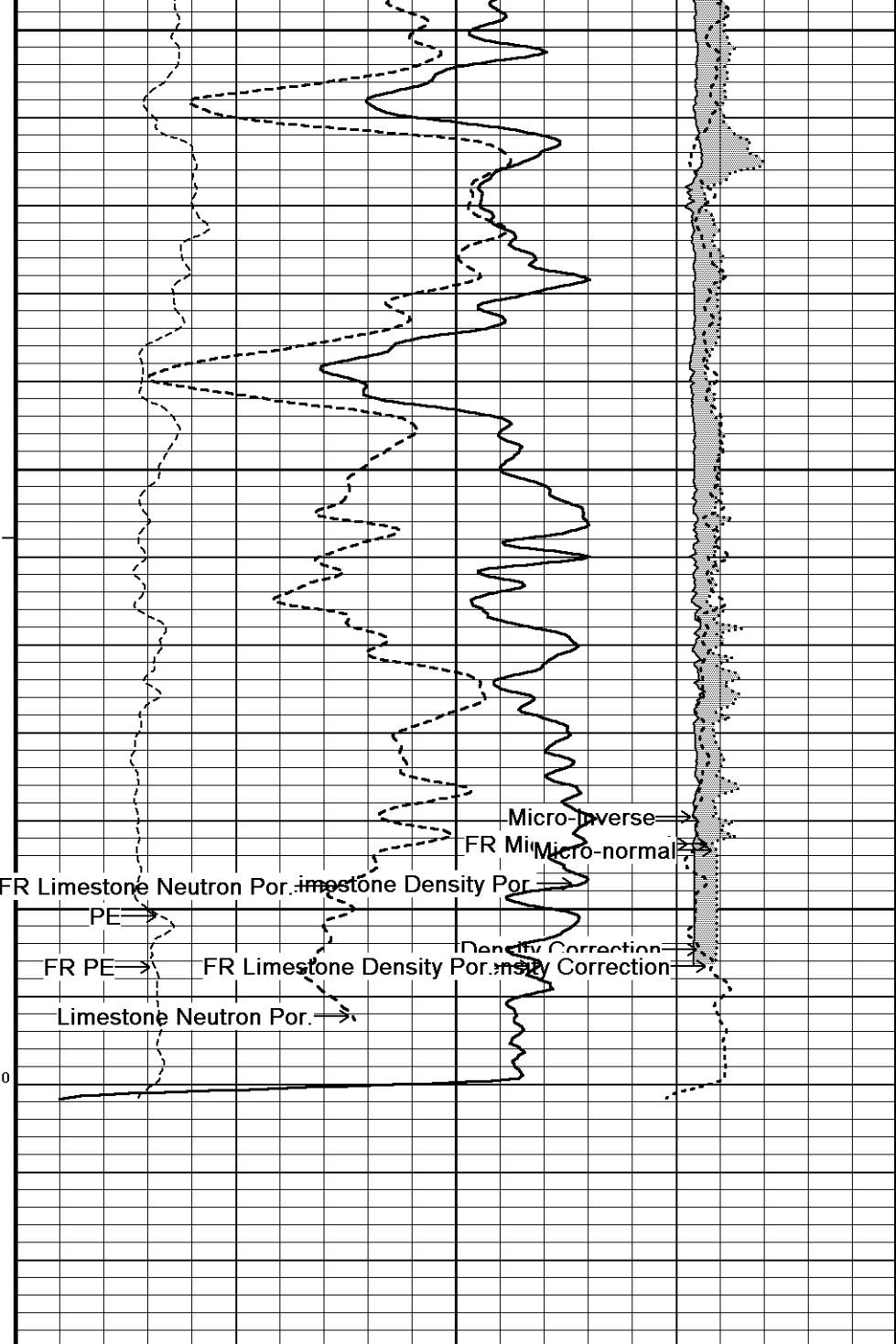
5200

5248
Depth
in
Feet

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every





Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 02-SEP-2012 10:40

Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta

Recorded on 02-SEP-2012 10:18

System Versions: Logged with 13.02.6600 Plotted with 13.02.6600

↑

5 INCH MAIN

↑

↓

REPEAT SECTION

↓

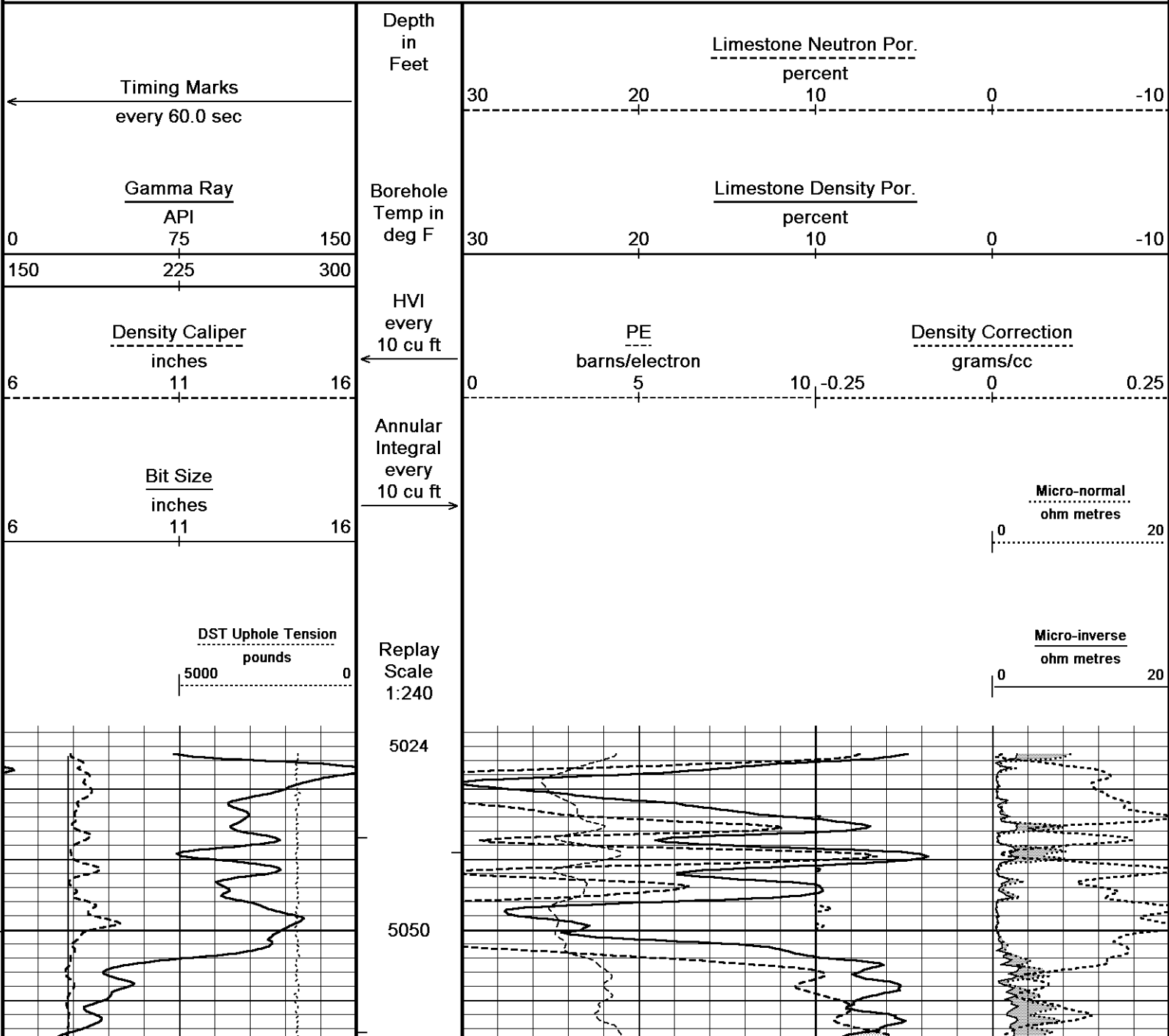
Depth Based Data - Maximum Sampling Increment 10.0cm

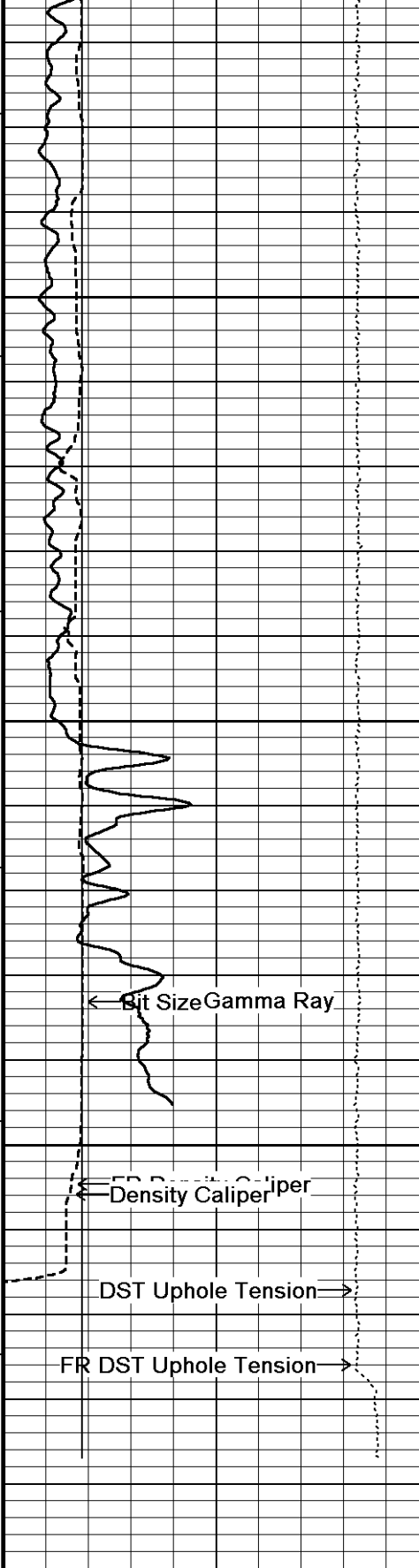
Plotted on 02-SEP-2012 10:40

Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Repeat.dta

Recorded on 02-SEP-2012 09:22

System Versions: Logged with 13.02.6600 Plotted with 13.02.6600





112°

5100

113°

5150

113°

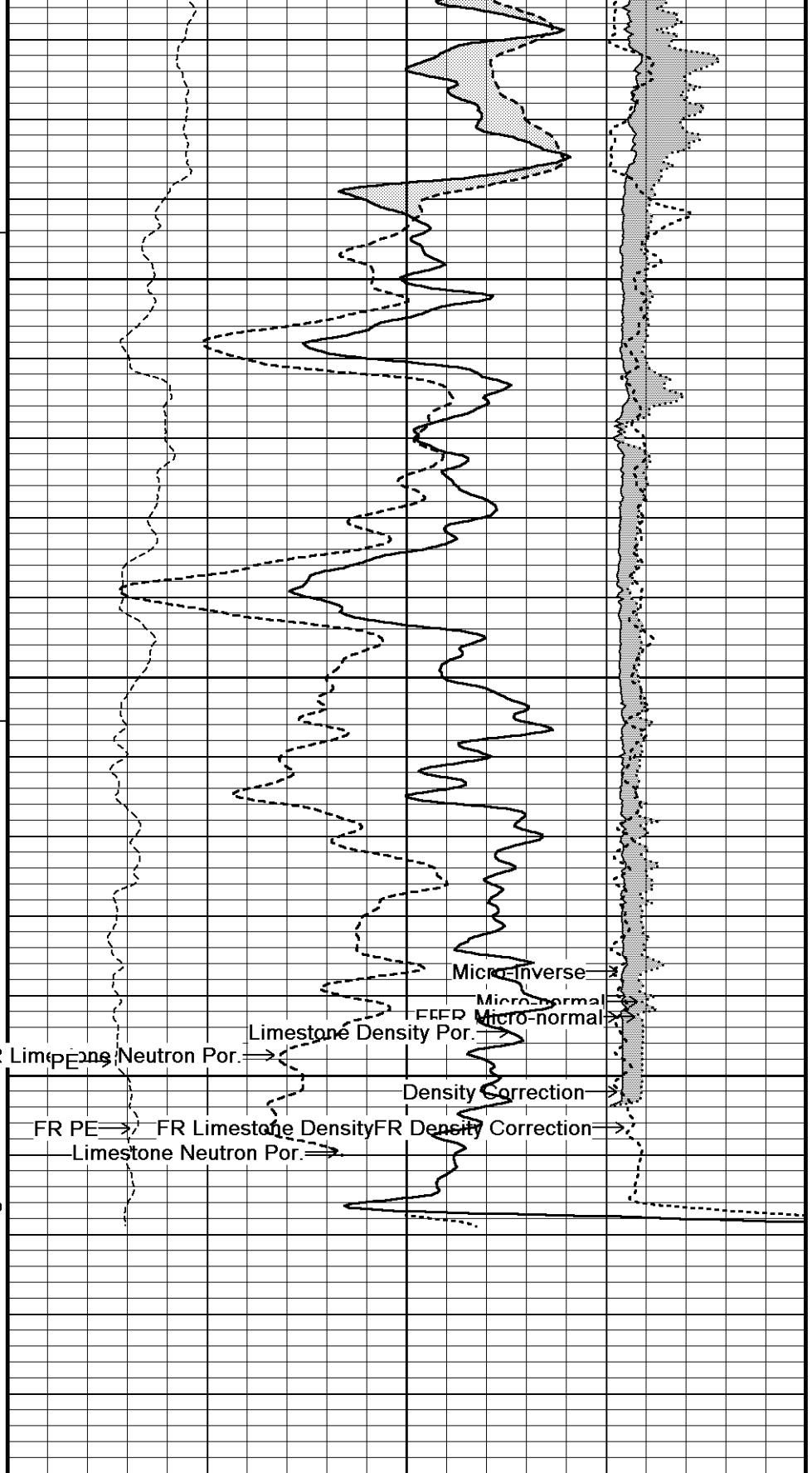
5200

5250
Depth
in
Feet

Timing Marks
every 60.0 sec

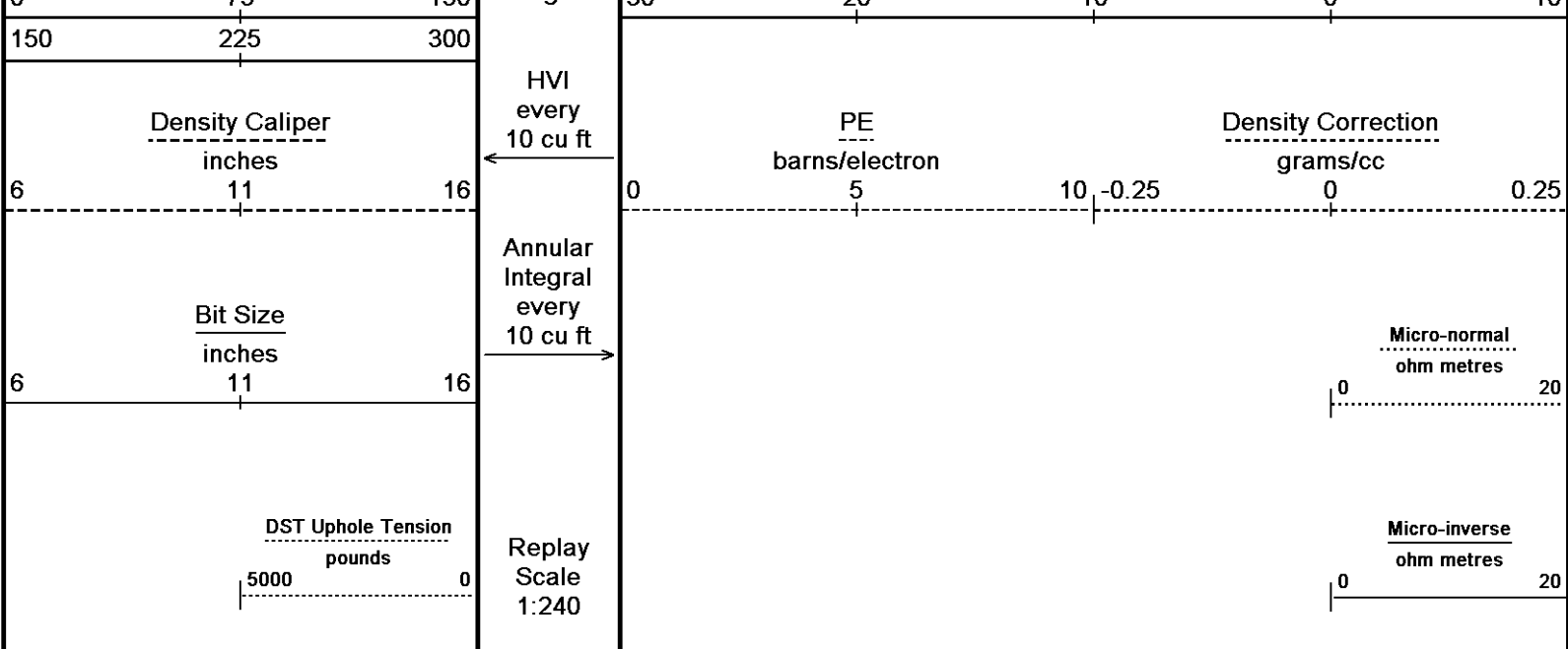
Gamma Ray
API
0 75 150

Borehole
Temp in
deg F



Limestone Neutron Por.
percent
30 20 10 0 -10

Limestone Density Por.
percent
30 20 10 0 -10

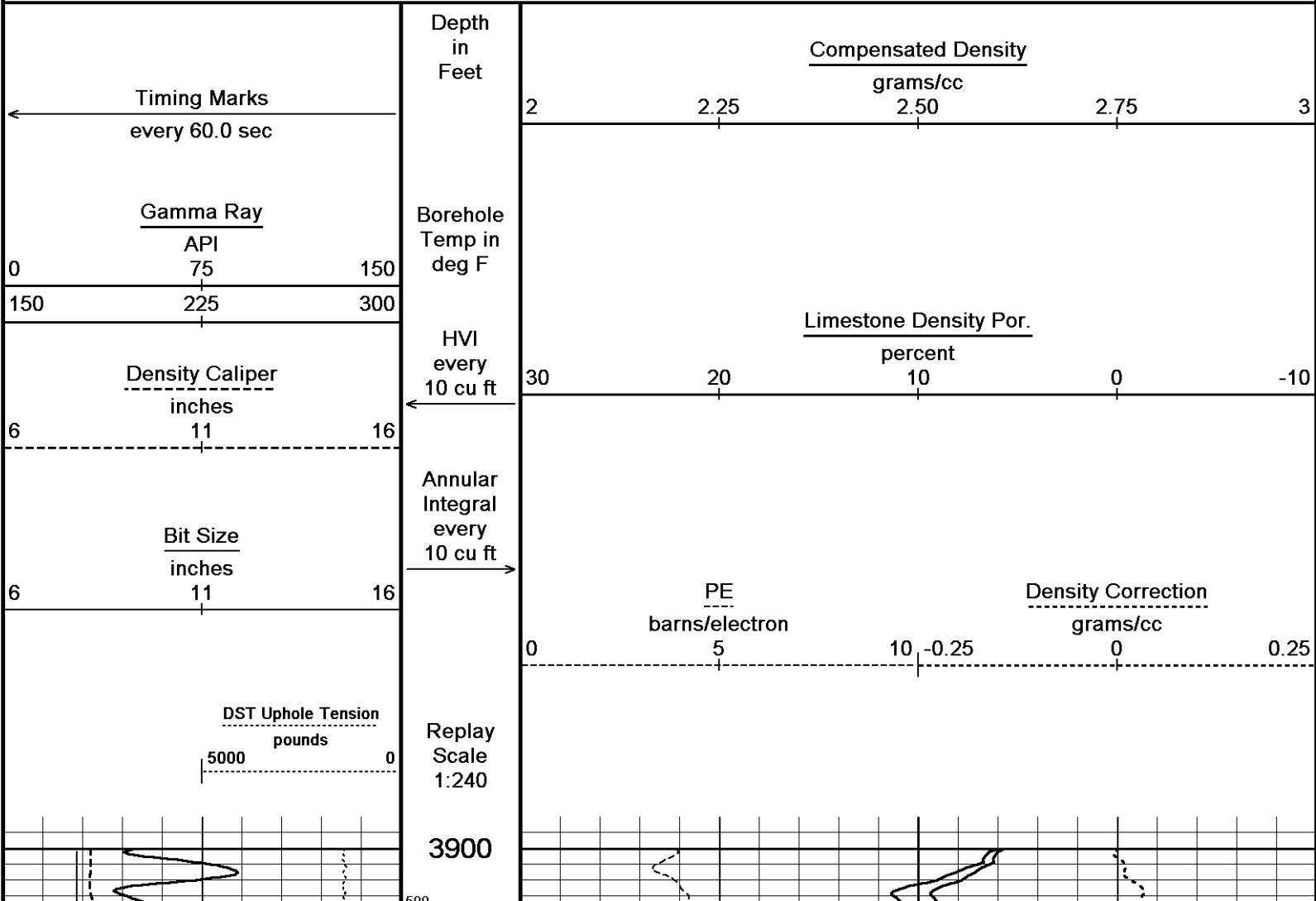


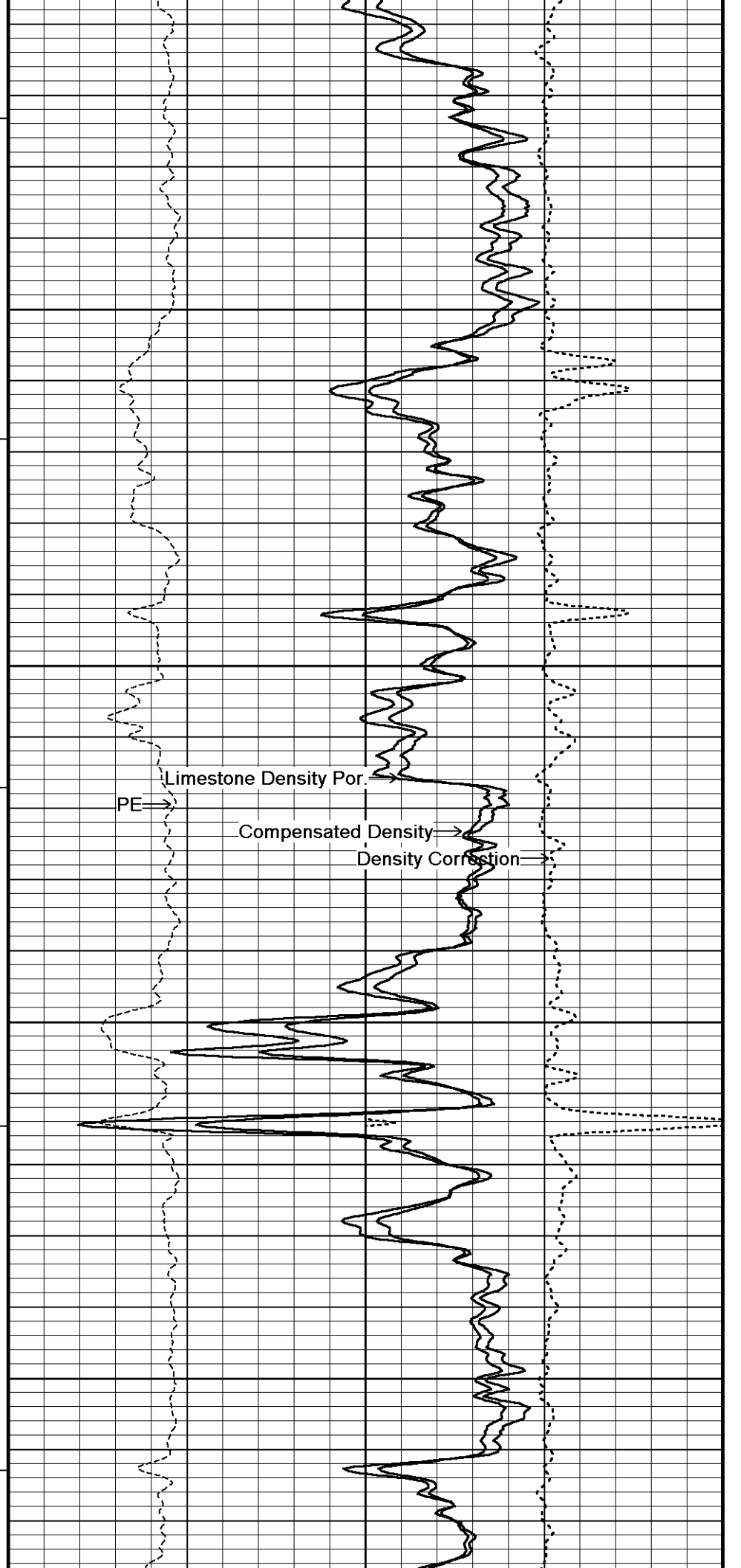
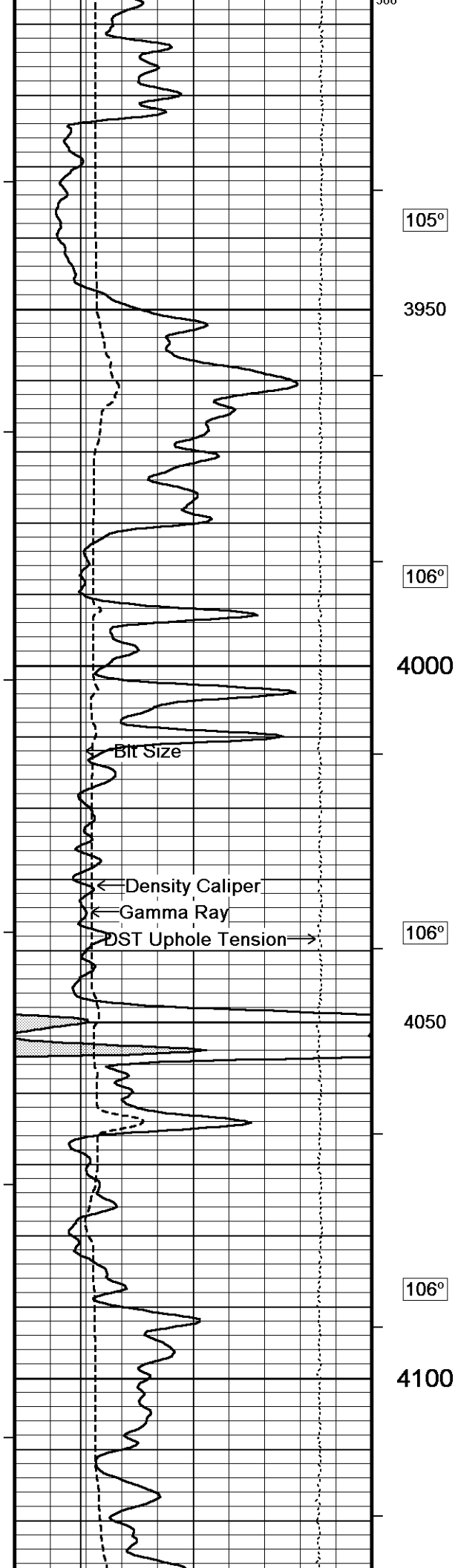
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 02-SEP-2012 10:40
Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Repeat.dta Recorded on 02-SEP-2012 09:22
System Versions: Logged with 13.02.6600 Plotted with 13.02.6600

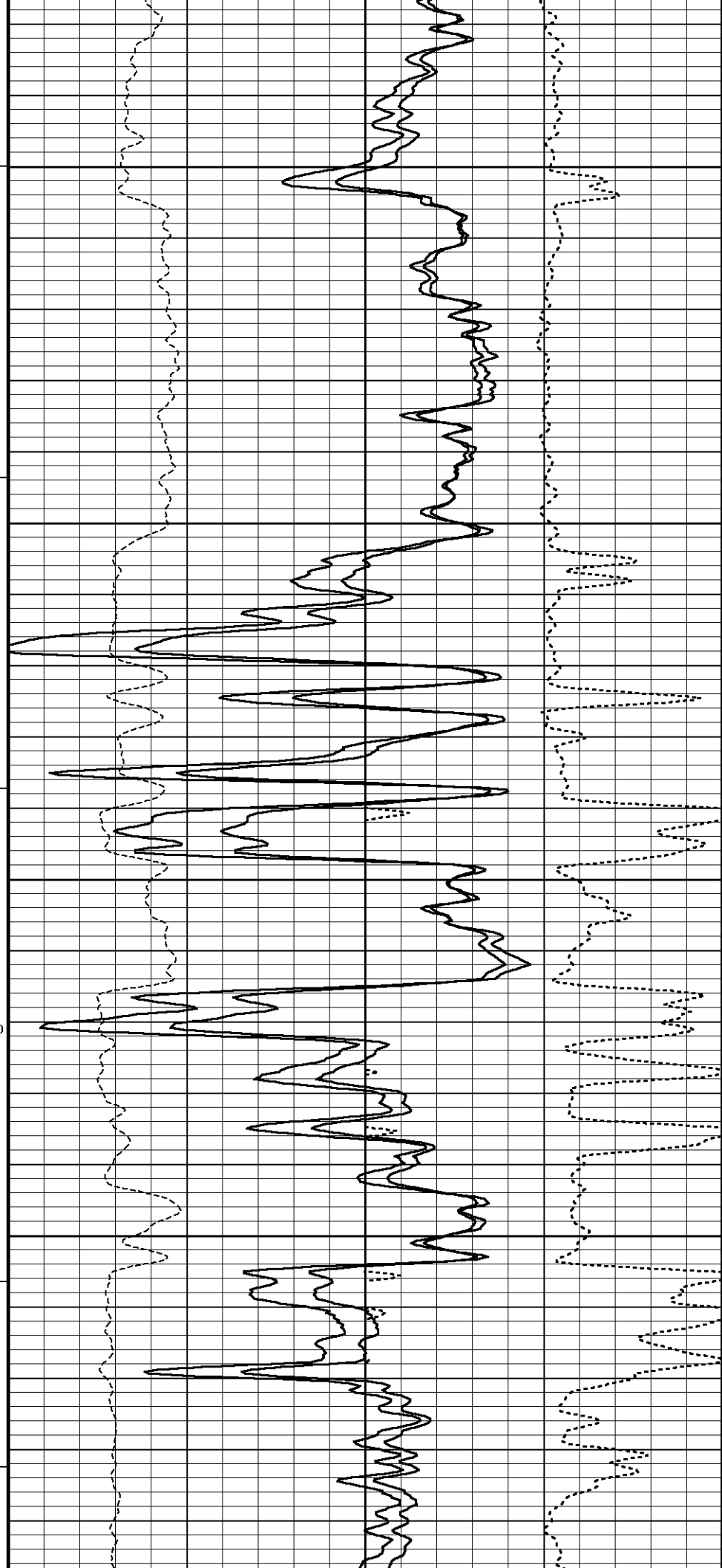
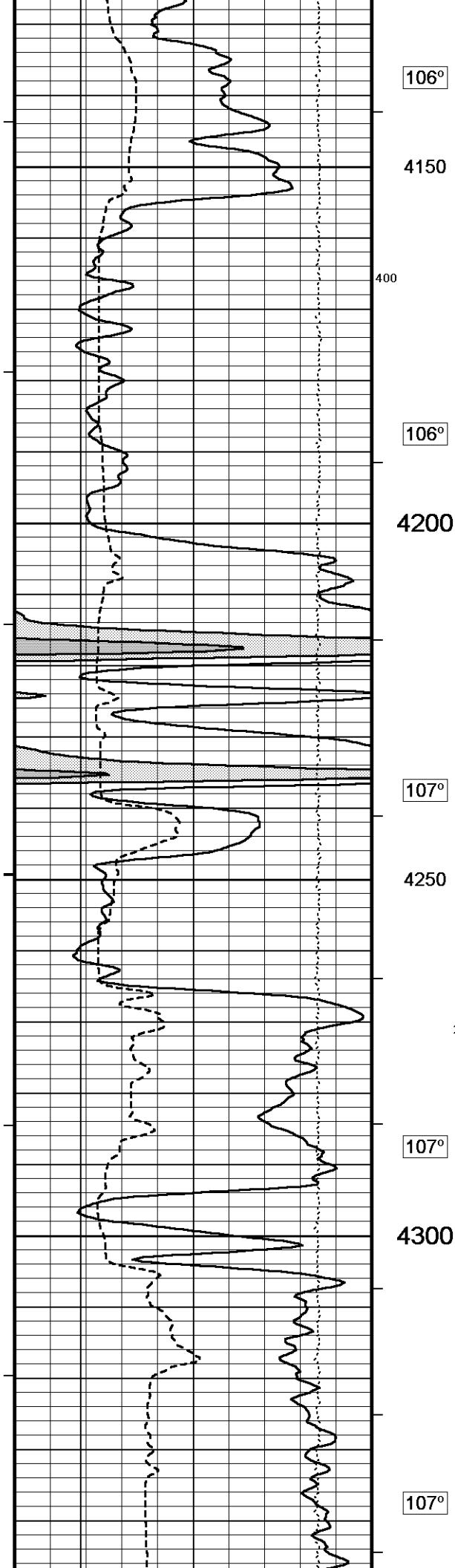
↑ REPEAT SECTION ↑

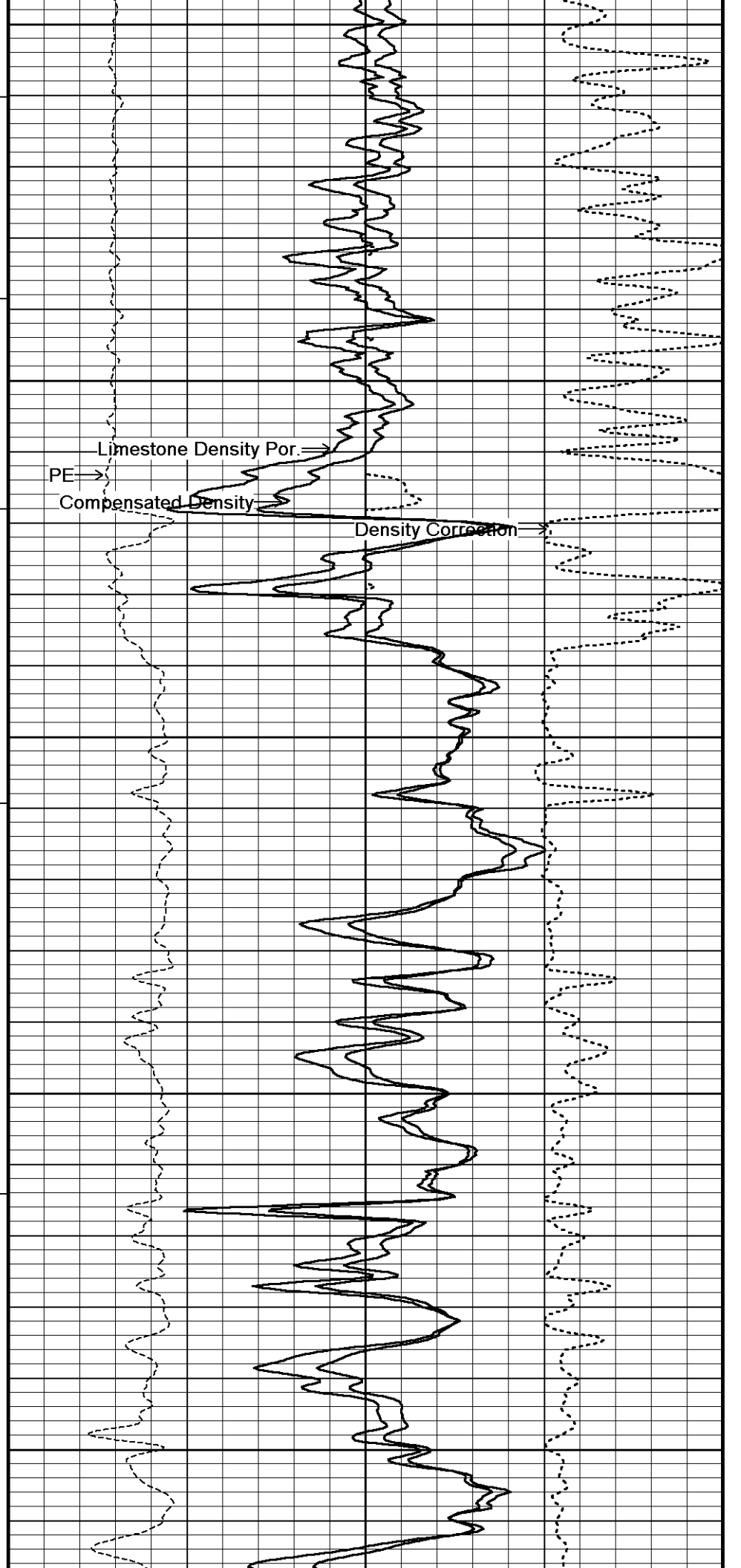
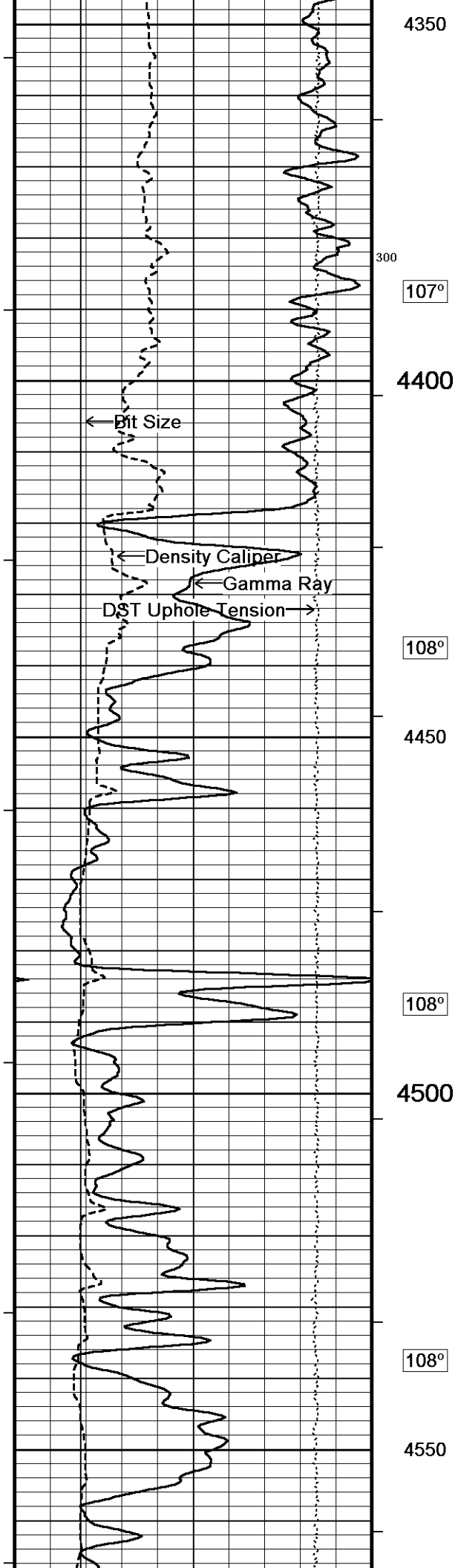
↓ 5 INCH MAIN ↓

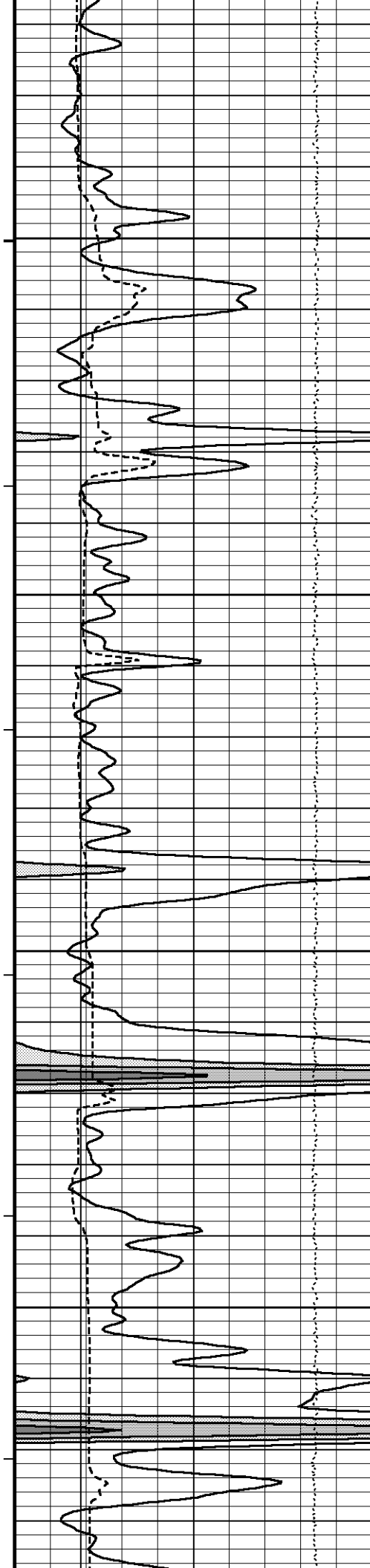
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 02-SEP-2012 10:40
Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta Recorded on 02-SEP-2012 10:18
System Versions: Logged with 13.02.6600 Plotted with 13.02.6600



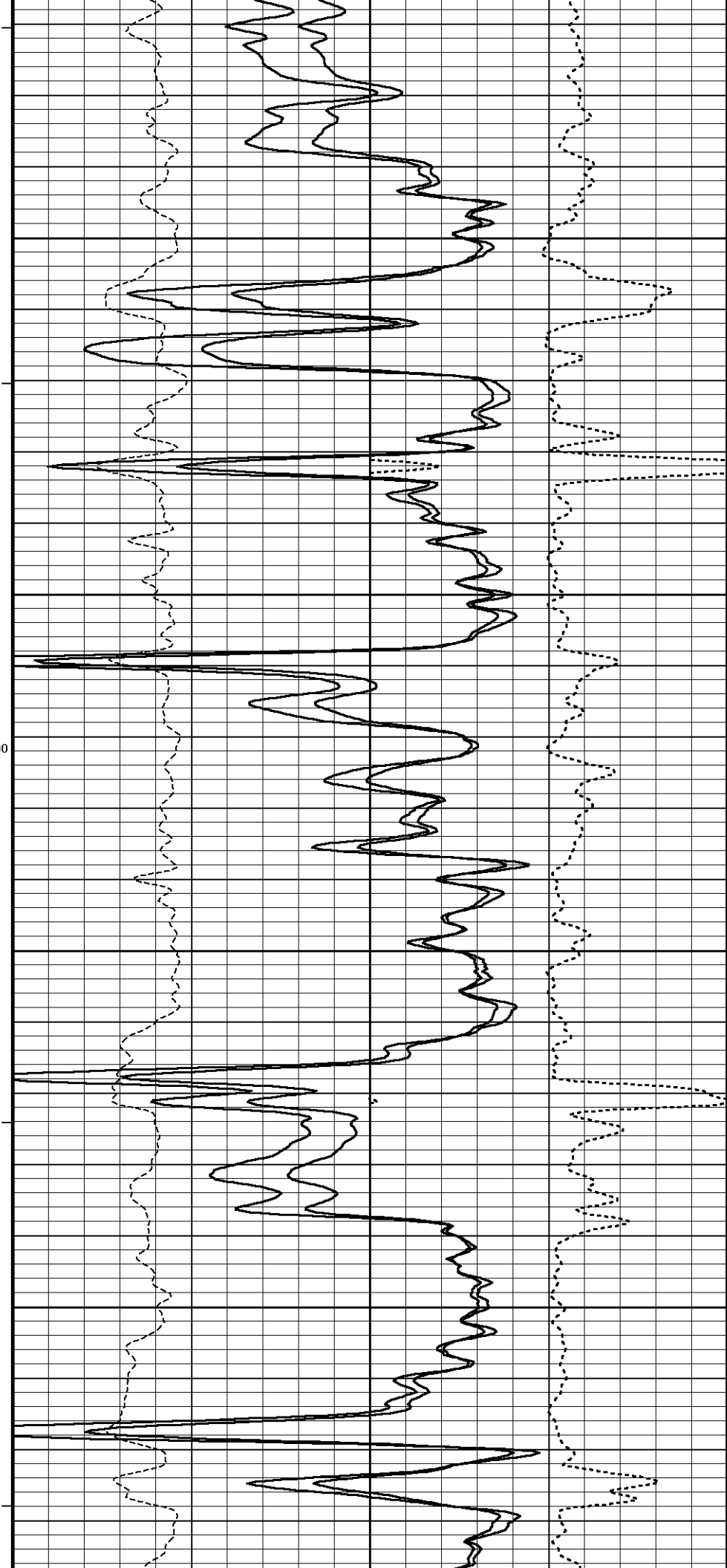


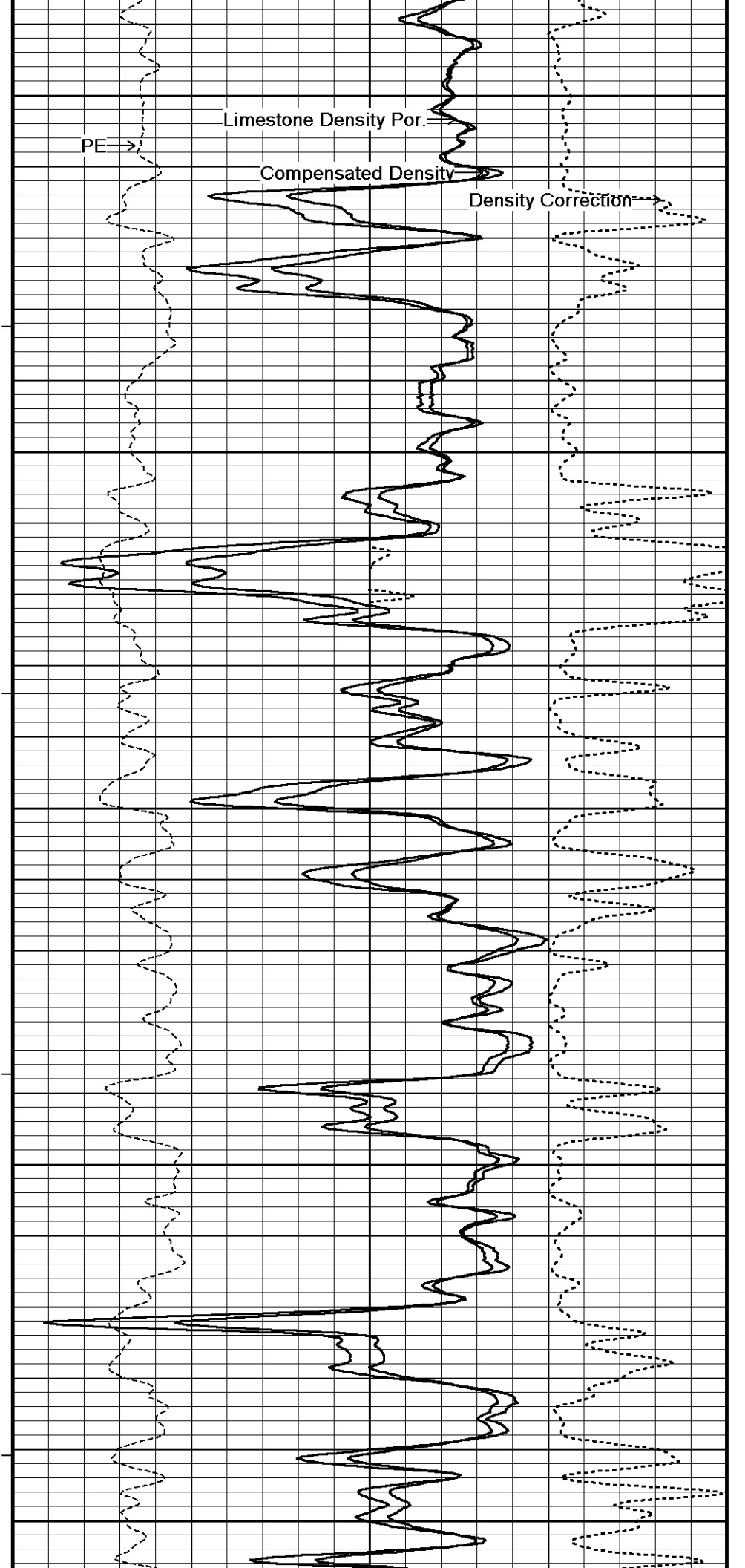
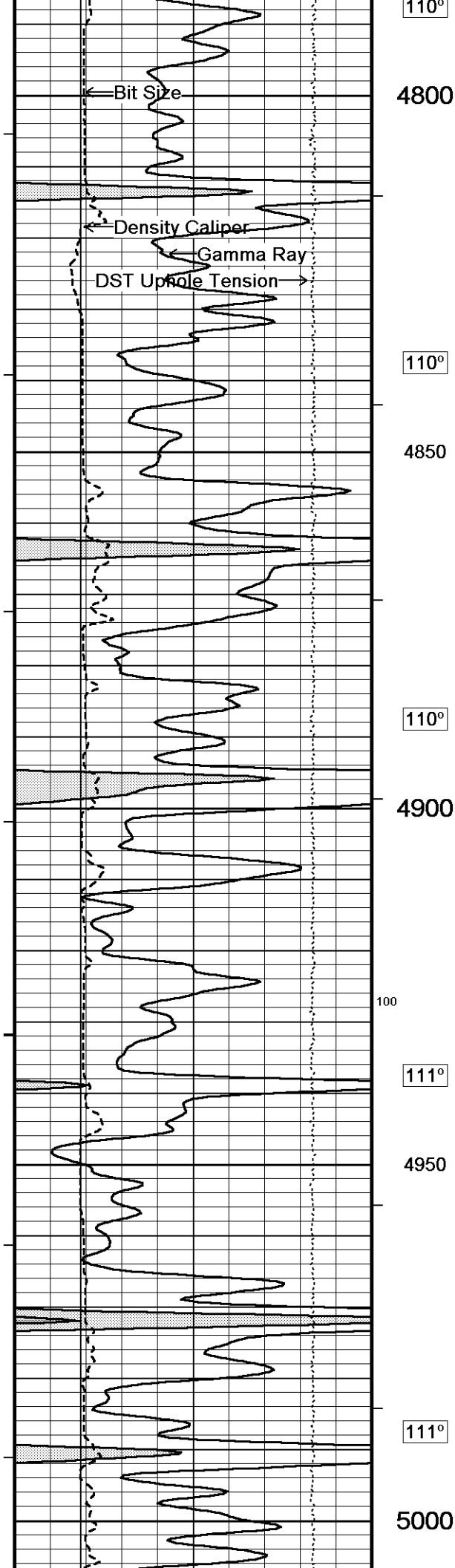


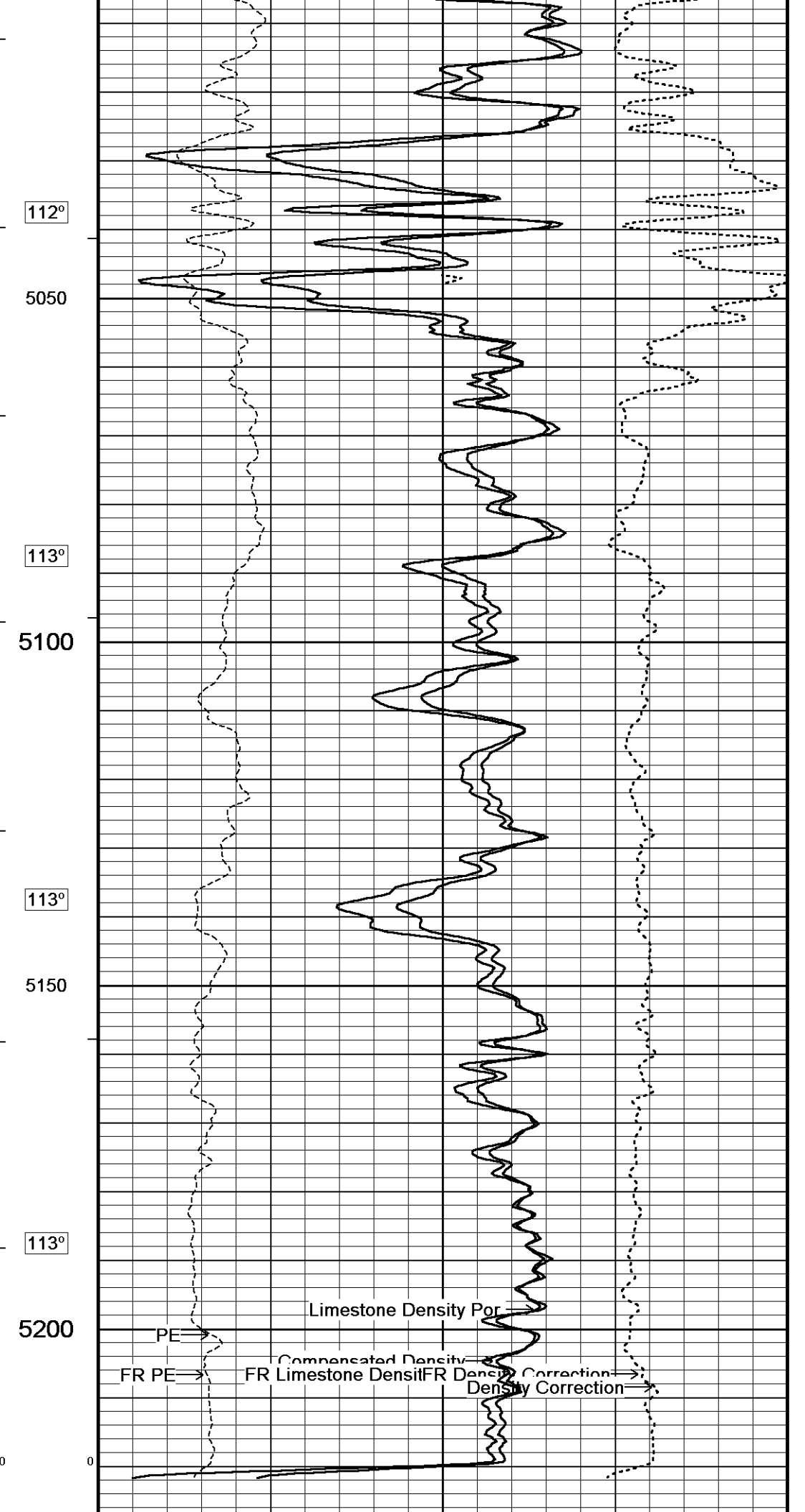
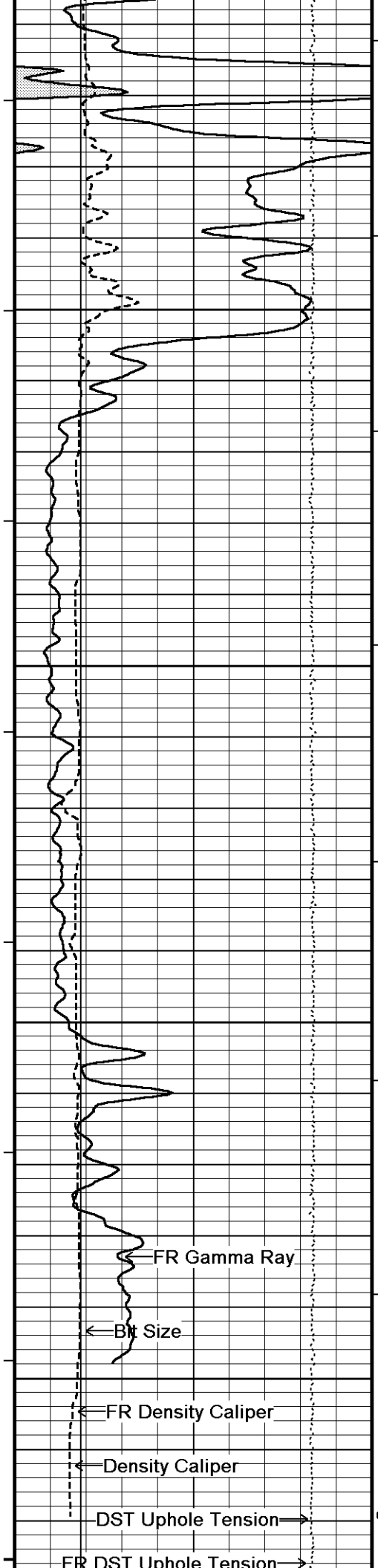


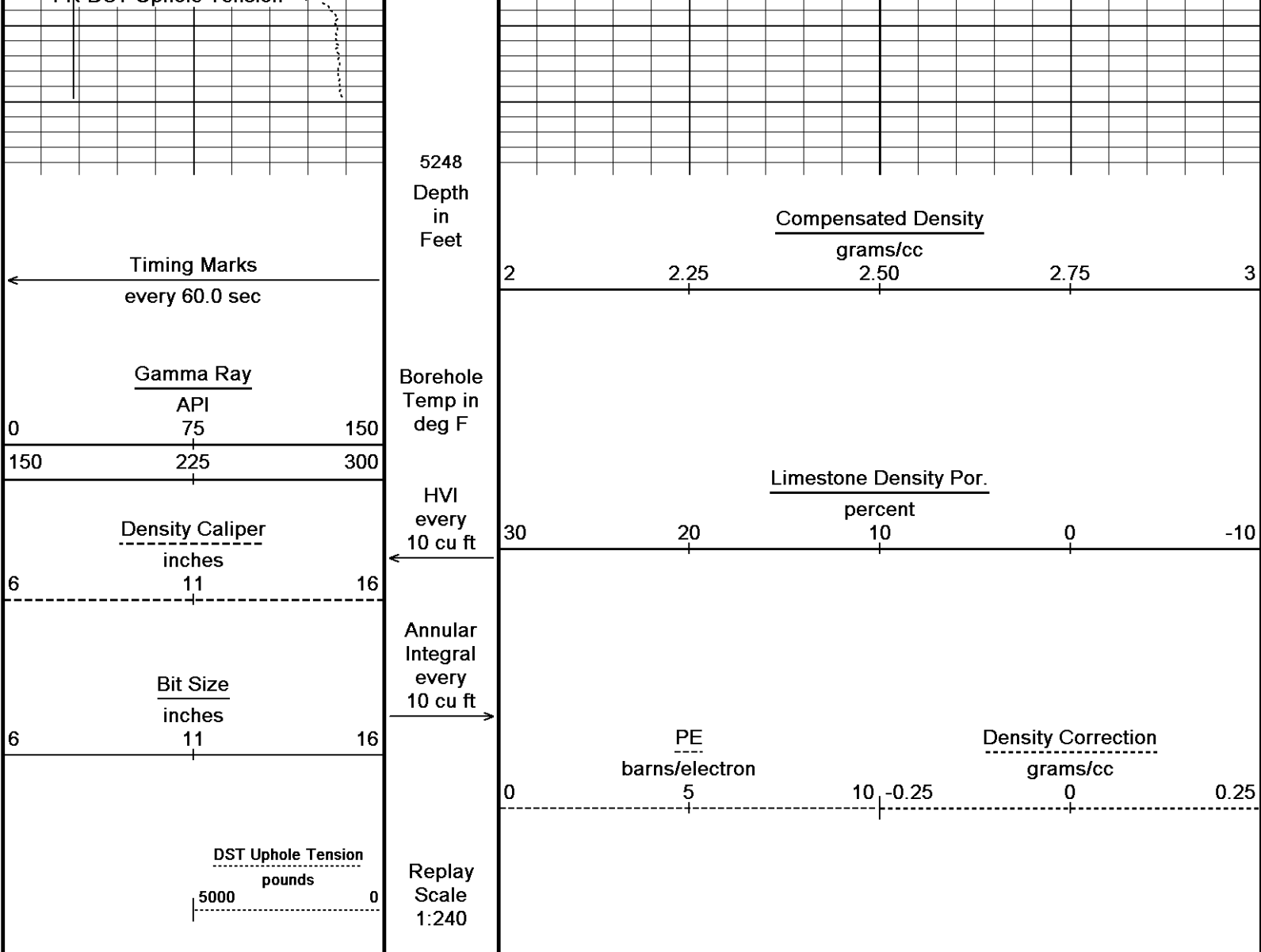


109°
4600
109°
200
4650
109°
100
4700
109°
4750



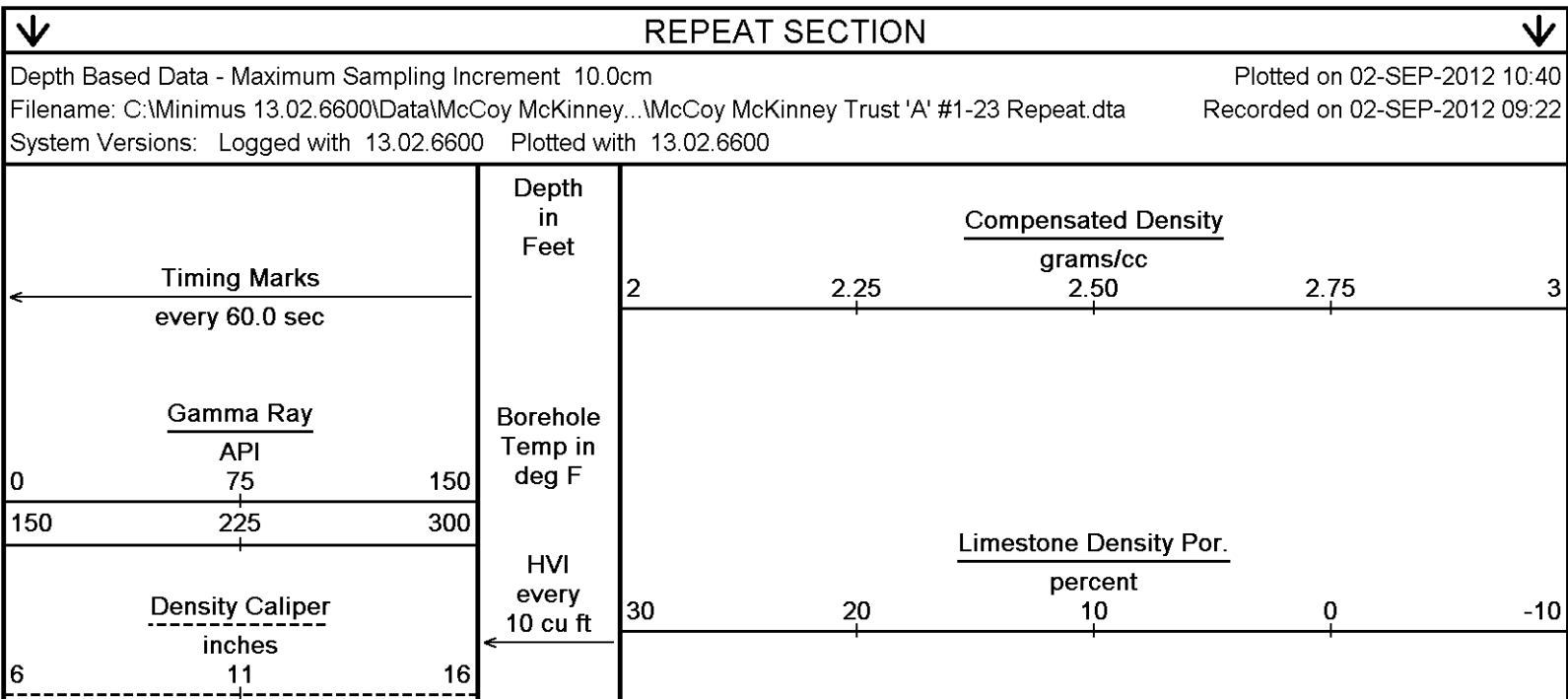


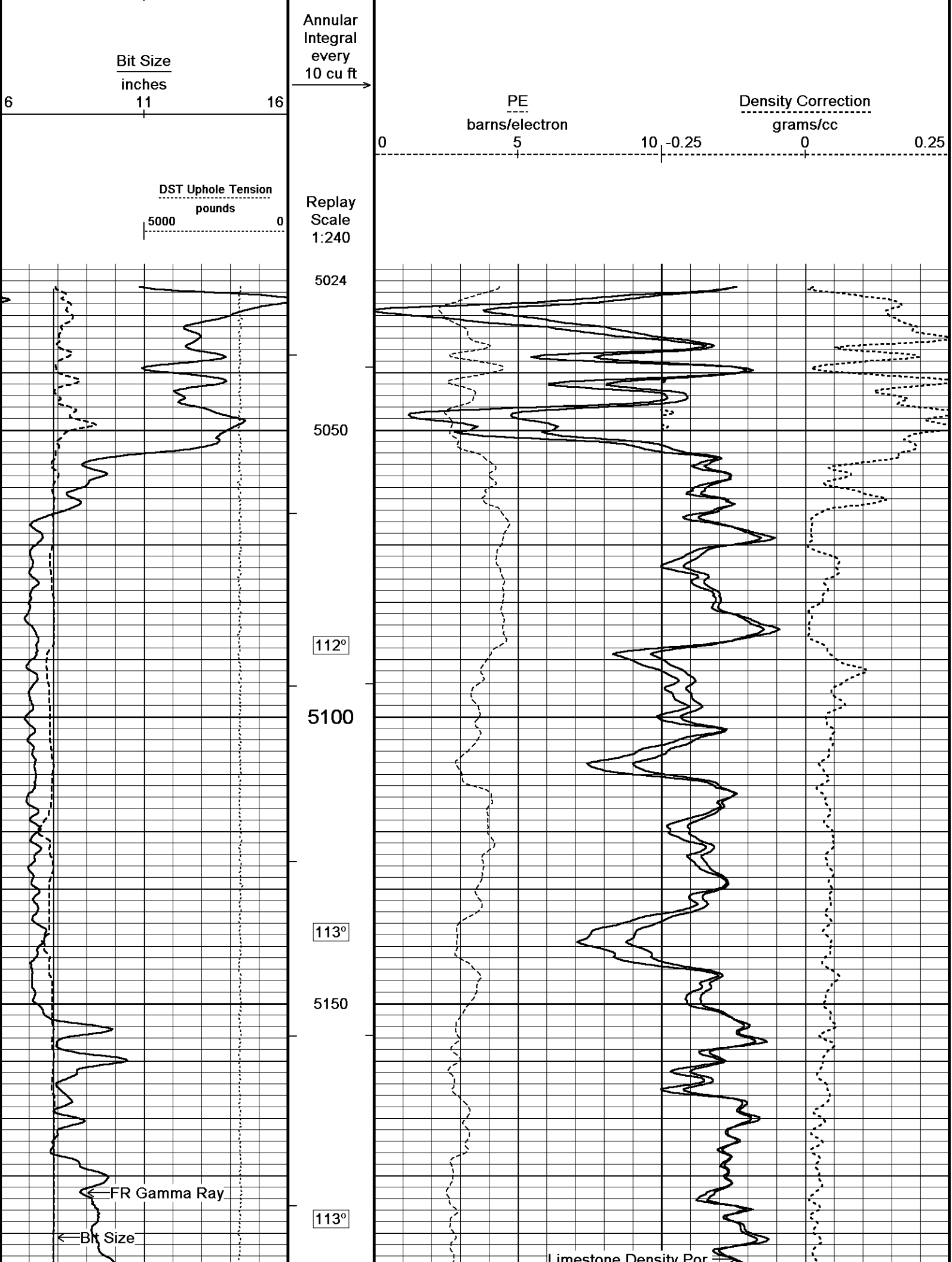


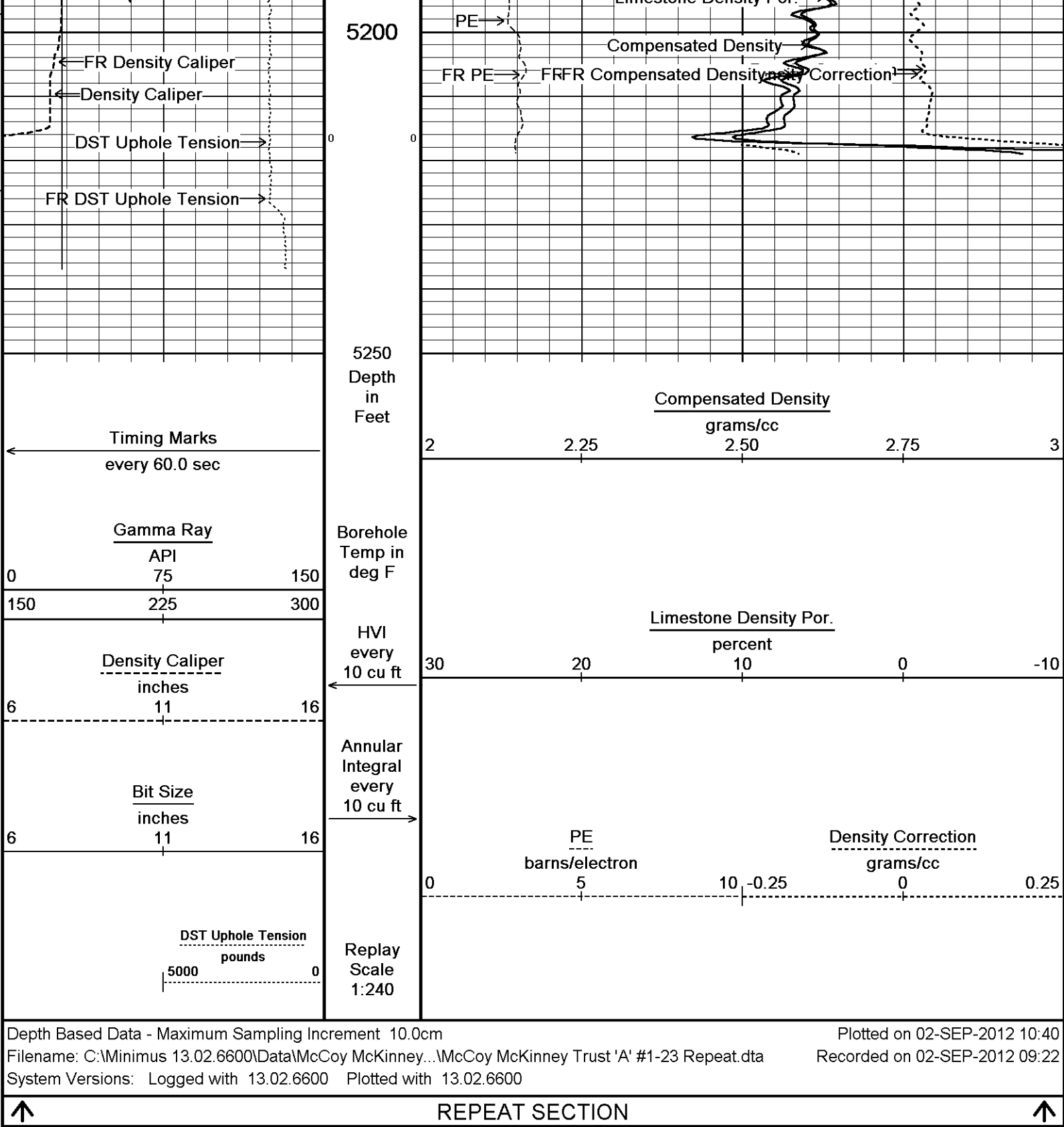


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 02-SEP-2012 10:40
Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta Recorded on 02-SEP-2012 10:18
System Versions: Logged with 13.02.6600 Plotted with 13.02.6600

↑ 5 INCH MAIN ↑







BEFORE SURVEY CALIBRATION		
C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta		
General Constants All 000		Last Edited on 02-SEP-2012,07:56
General Parameters		
Mud Resistivity	0.560	ohm-metres
Mud Resistivity Temperature	88.000	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	Base Density Porosity		
Resistivity used	Array Ind. One Res Rt		
RWA Constant A	0.610		
RWA Constant M	2.150		
Down-hole Tension Calibration SMS 0			
Reading No	Measured	Calibrated (lbs)	Field Calibration on 02-SEP-2012 08:42
1	15850.66	0.00	
2	16330.28	400.00	
Gamma Calibration MCG-C 208			
	Measured	Calibrated (API)	Field Calibration on 02-SEP-2012 04:38
Background	75	53	
Calibrator (Gross)	1095	778	
Calibrator (Net)	1020	725	
Gamma Constants MCG-C 208			
			Last Edited on 02-SEP-2012,07:53
Gamma Calibrator Number	GR38		
Mud Density	1.13	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	
SP Calibration MCG-C 208			
	Measured	Calibrated (mV)	Field Calibration on 03-AUG-2012 22:37
Reference 1	100.2	101.0	
Reference 2	-101.3	-101.0	
High Resolution Temperature Calibration MCG-C 208			
	Measured	Calibrated(Deg F)	Field Calibration on 03-AUG-2012,16:18
Lower	50.00	50.00	
Upper	75.00	75.00	
High Resolution Temperature Constants MCG-C 208			
			Last Edited on
Pre-filter Length	11		
Caliper Calibration MML-A 16			
			Base Calibration on 25-AUG-2012 22:52
			Field Calibration on 02-SEP-2012 04:33
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	14118	5.98	
2	17457	7.97	
3	20732	9.86	
4	24642	11.92	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	5.96	5.98	
Micro Normal and Micro Inverse Calibration MML-A 16			
			Base Calibration on 25-AUG-2012 22:42
			Field Check on 02-SEP-2012 04:32
Base Calibration			
Channel	Measured	Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1
Micro Normal	12.2	60.2	5.0
Micro Inverse	15.6	78.3	5.0
Channel	Base Check (ohm-m)	Field Check (ohm-m)	
Micro Normal	62.9	62.9	

Micro Inverse

48.2

48.2

Micro Normal and Micro Inverse Constants MML-A 16

Last Edited on 28-AUG-2012,21:01

Pad Type 8-12 in Soft Rubber Inflatable 006-9011-159

Micro Normal K Factor 1.0000

Micro Inverse K Factor 1.0000

Standoff Offset N/A inches

Neutron Calibration MDN-A.B 65

Base Calibration on 28-AUG-2012 10:35

Field Check on 02-SEP-2012 04:43

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3134	97	3714	110
Ratio	32.240		33.764	

Field Calibrator at Base

	Calibrated (cps)
	1654 2401
Ratio	0.689

Field Check

	Calibrated (cps)
	1646 2373
Ratio	0.694

Neutron Constants MDN-A.B 65

Last Edited on 02-SEP-2012,04:38

Neutron Source Id	PN-521	
Neutron Jig Number	5824NE	
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	Constant Value	
Temperature	68.00	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-B.J 352

Base Calibration on 27-AUG-2012 14:50

Field Check on 02-SEP-2012 04:24

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	963.9	126.8

Base Check	281.2
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Field Check	281.3
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FE Constants MFE-B.J 352

Last Edited on 02-SEP-2012,04:23

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

Induction Calibration MAI-A.A 45

Base Calibration on 26-JUL-2012,09:22

Field Check on 02-SEP-2012 04:22

Base Calibration

Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel		Low	High	Low	High
1		14.4	472.6	9.3	966.2

1	14.4	472.0	5.5	555.2
2	5.7	374.0	7.6	821.4
3	3.4	261.2	5.2	566.0
4	2.5	133.9	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	19.8	3852.7
2	0.0	0.0	32.2	3629.9
3	0.0	0.0	29.0	3049.9
4	0.0	0.0	18.5	2079.5
Deep	0.0	0.0	16.3	1911.6
Medium	0.0	0.0	42.8	4061.0
Shallow	0.0	0.0	50.4	5483.9
Array Temperature	0.0		79.1	Deg F

Induction Constants MAI-A.A 45

Last Edited on 02-SEP-2012,07:55

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	8.0000		
Stand-off Fin Angle	45.00	degrees	
Stand-off Fin Width	0.5000	inches	
Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Squasher Start	0.0020	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		

High Resolution Temperature Calibration MAI-A.A 45

Field Calibration on 26-JUL-2012,09:09

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MAI-A.A 45

Last Edited on

Pre-filter Length 11

Caliper Calibration MPD-B 31

Base Calibration on 28-AUG-2012 11:03

Field Calibration on 02-SEP-2012 04:26

Base Calibration		
Reading No	Measured	Calibrator Size (in)

1	18576	3.99
2	27056	5.98
3	35613	7.97
4	44032	9.86
5	53360	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.89	5.98

Photo Density Calibration MPD-B 31

Base Calibration on 28-AUG-2012 11:22
Field Check on 02-SEP-2012 04:31

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	46103	23728	59556	30836
Reference 2	19270	1960	24941	2541

Field Check at Base

688.3 844.7

Field Check

692.1 851.1

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	127	604		
Reference 1	18457	45978	0.404	0.371
Reference 2	5504	19174	0.290	0.272

Field Check at Base

127.0 604.2

Field Check

127.8 607.3

Density Constants MPD-B 31

Last Edited on 02-SEP-2012,07:52

Density Source Id	254
Nylon Calibrator Number	DNCE695
Aluminium Calibrator Number	DACD698
Density Shoe Profile	8 inch
Caliper Source for Processing	Density Caliper
PE Correction to Density	Not Applied
Mud Density	1.13 gm/cc
Mud Density Z/A Multiplier	1.13
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
0.00	0.00

DOWNHOLE EQUIPMENT

C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta

3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in



Compact Comms Gamma
MCG-C 208 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 16 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

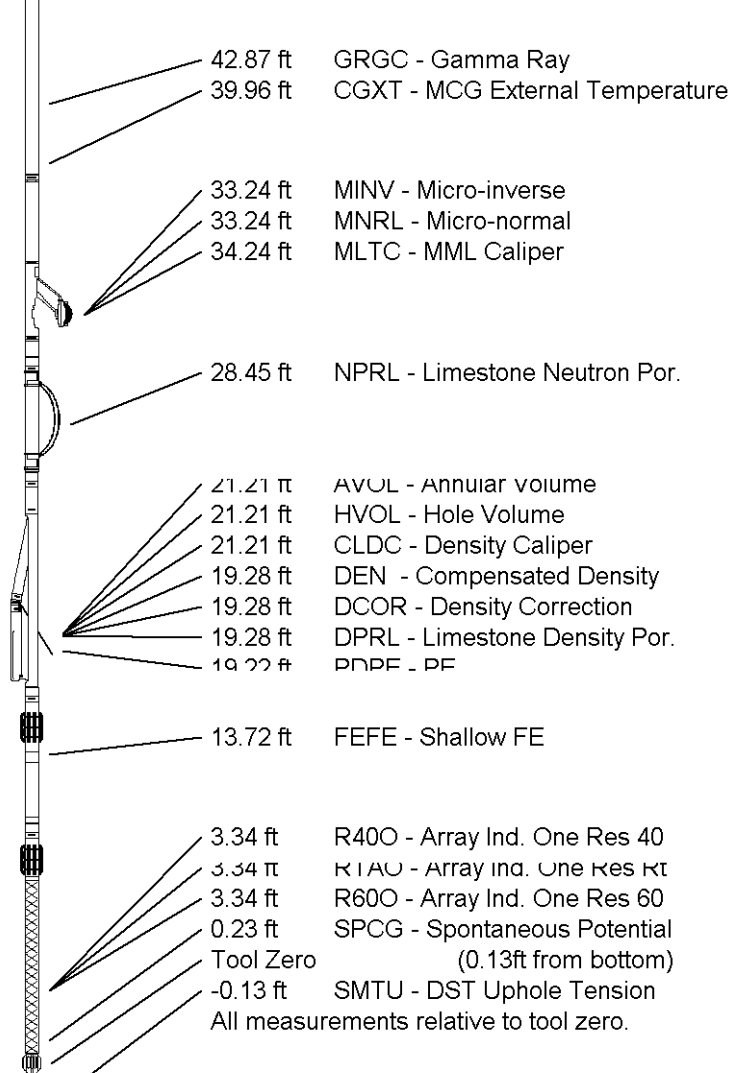
Compact Neutron
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 31 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 45 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 49.73 ft Weight: 399.0 lb



COMPANY	MCCOY PETROLEUM CORP.
WELL	MCKINNEY TRUST 'A' #1-23
FIELD	ALFORD
PROVINCE/COUNTY	KIOWA
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2241.00	feet	First Reading	5207.00	feet
Elevation Drill Floor	2239.00	feet	Depth Driller	5225.00	feet
Elevation Ground Level	2232.00	feet	Depth Logger	5226.00	feet



Weatherford®

COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG