



Weatherford
180

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON**

COMPANY **McCoy Petroleum Corp.**
WELL **Schmidt 'A' #7-29**

FIELD

PROVINCE/COUNTY **Haskell**

COUNTRY/STATE **U.S.A. / Kansas**

LOCATION **1140' FSL & 1980' FWL**

[FINAL PRINT]

SEC **TWP** **RGE** **Other Services**
29 30S 31W MML

API Number **Permit Number 15-081-21987** **MAI/MFE**
MCG

Permanent Datum G.L., Elevation 2843 feet

Log Measured From KB

Drilling Measured From KB

Elevations: feet
KB 2856.00
DF 2858.00
GL 2843.00

Date **24-JUN-2012**

Run Number **One**

Depth Driller **4805.00** feet

Depth Logger **4806.00** feet

First Reading **4806.00** feet

Last Reading **3800.00** feet

Casing Driller **1822.00** feet

Casing Logger **1822.00** feet

Bit Size **7.875** inches

Hole Fluid Type **Chemical**

Density / Viscosity **8.95 g/cc** **52.00 CP**

PH / Fluid Loss **10.50**

Sample Source **Flowline**

Rm @ Measured Temp **1.18 @ 97.2** ohm-m

Rmf @ Measured Temp **0.94 @ 97.2** ohm-m

Rmc @ Measured Temp **1.40 @ 97.2** ohm-m

Source Rmf / Rmc **Calc**

Rm @ BHT **0.99 @ 116.0** ohm-m

Time Since Circulation **4 Hrs**

Max Recorded Temp **116.00** deg F

Equipment Name **Compact**

Equipment / Base **13057** **Libera**

Recorded By **Roger Burns**

Witnessed By **Jerry Smith**

Field Ticket **3529325**

BOREHOLE RECORD

Last Edited: 24-JUN-2012 11:26

Bit Size
inches

Depth From
feet

Depth To
feet

7.875

1822.00

4806.00

CASING RECORD

Type

Size
inches

Depth From
feet

Shoe Depth
feet

Weight
pounds/ft

8.625

0.00

1822.00

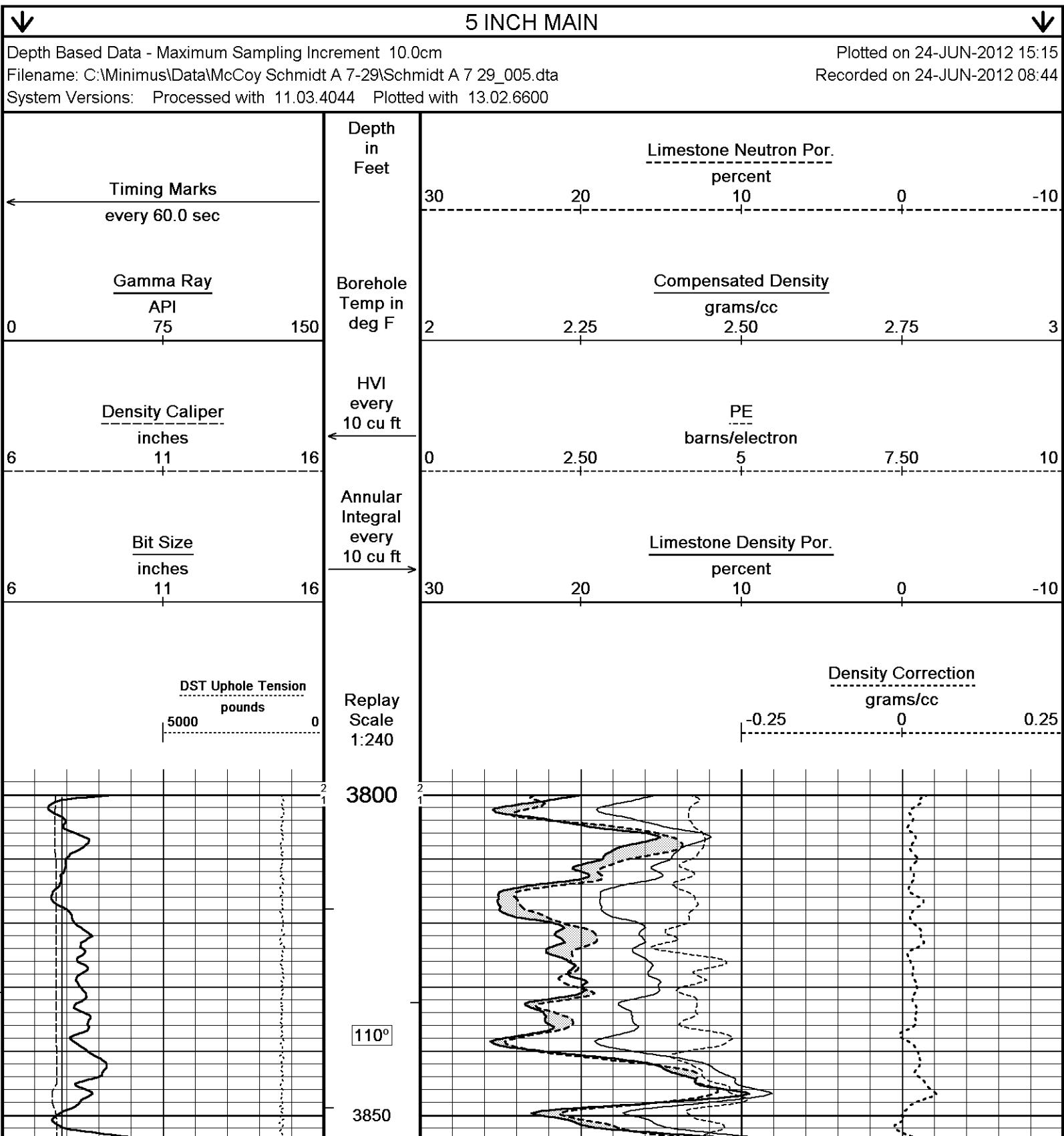
0.00

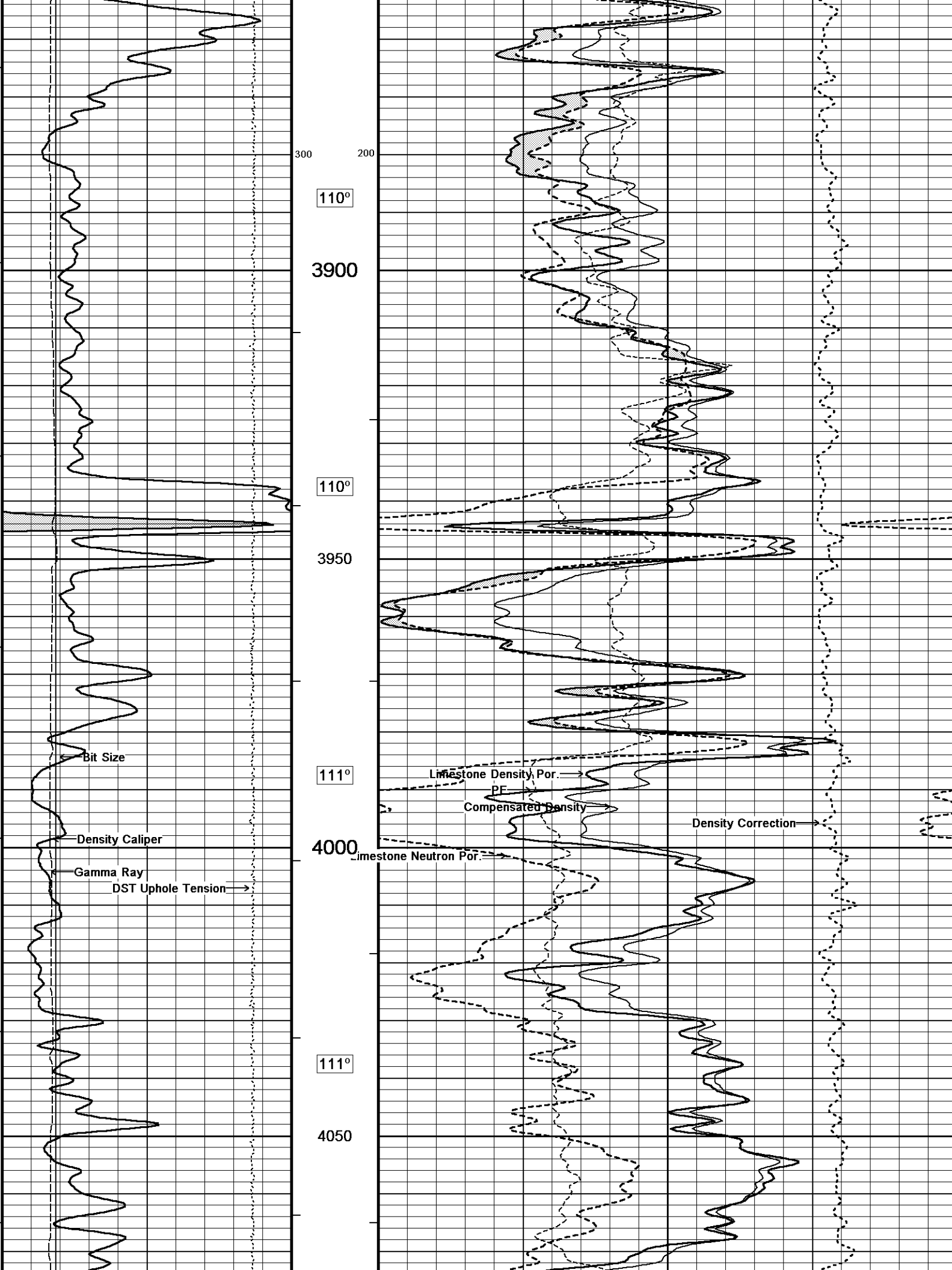
REMARKS

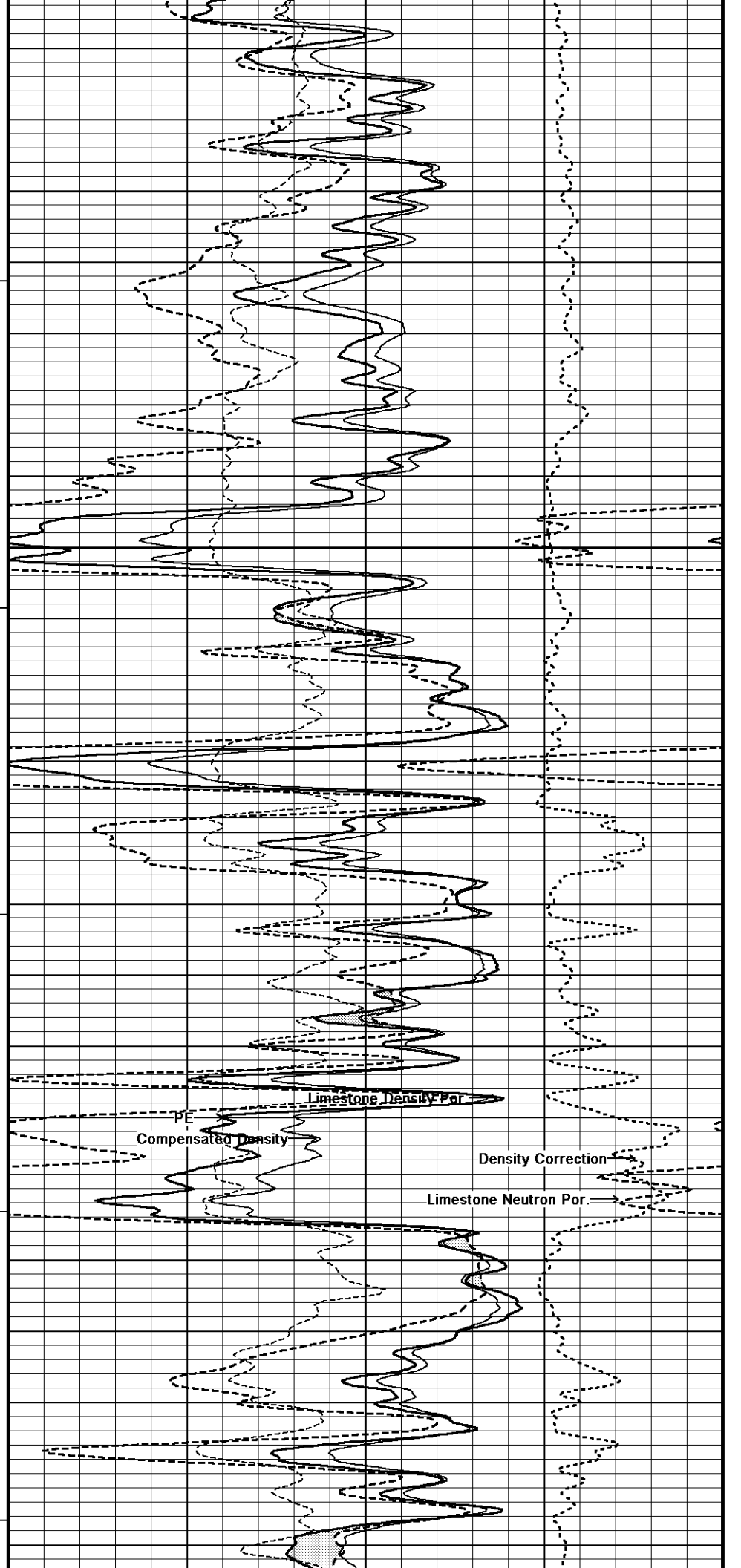
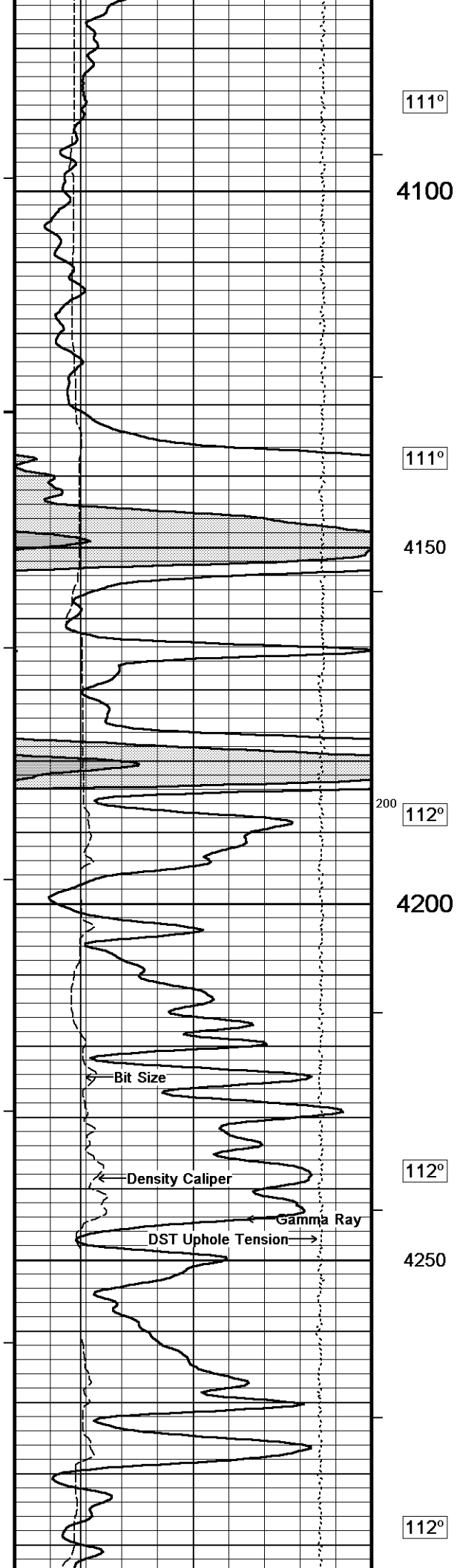
- SOFTWARE ISSUE: WLS 11.03.4044.
- MCG, MML, MDN, MPD, MFE, MAI RAN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
 - 0.5 INCH STANDOFF USED ON MAI.
 - 0.5 INCH STANDOFF USED ON MFE.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME:1310 CU.FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH CASING: 950 CU. FT.
- SERVICE ORDER # 3529325

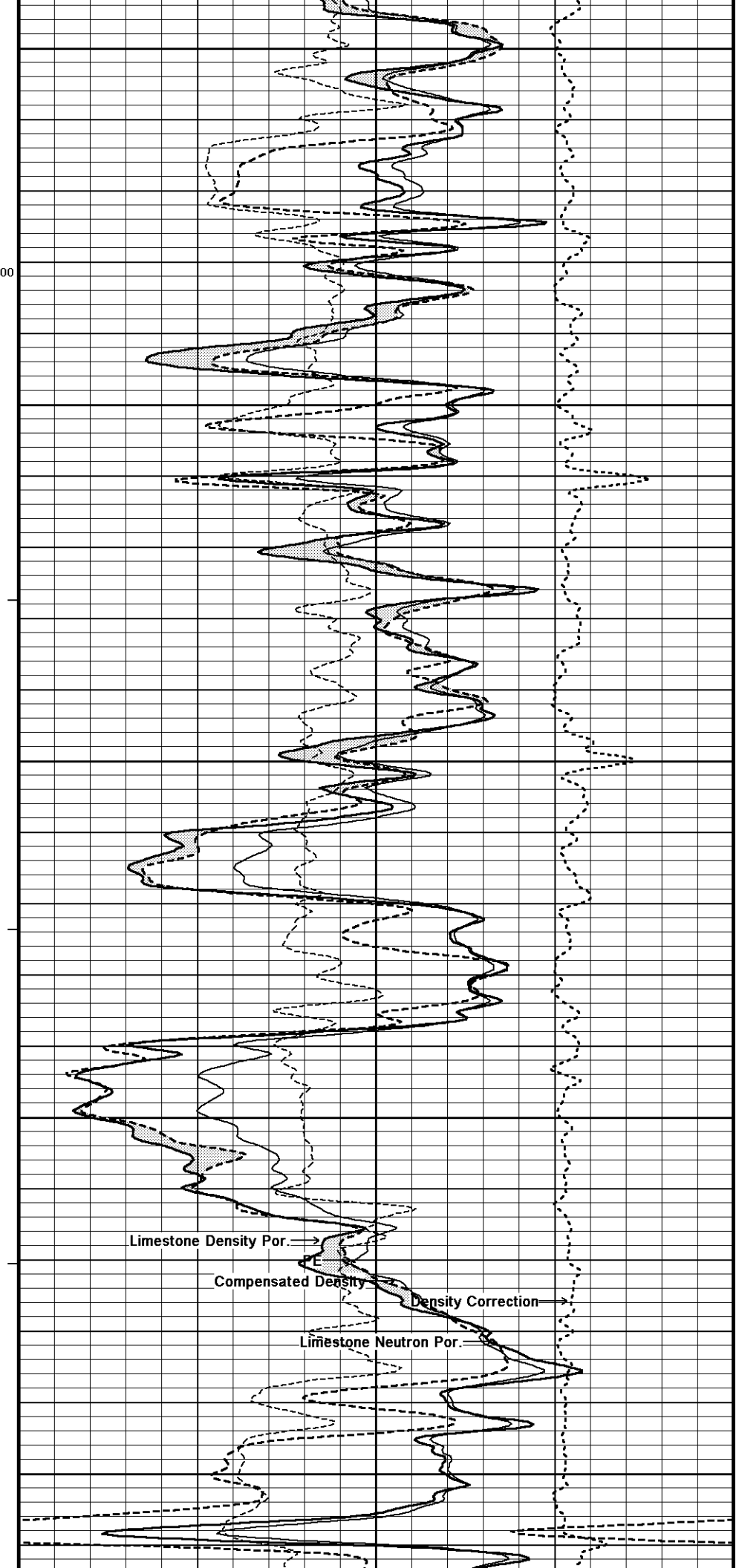
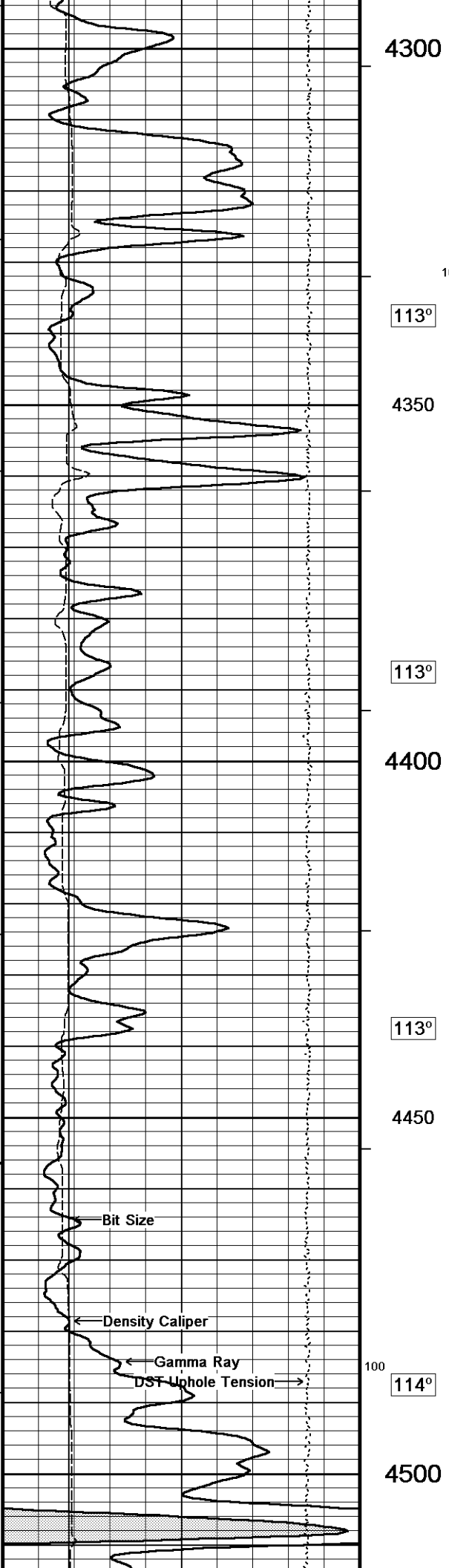
- OPERATOR: B. REEVES

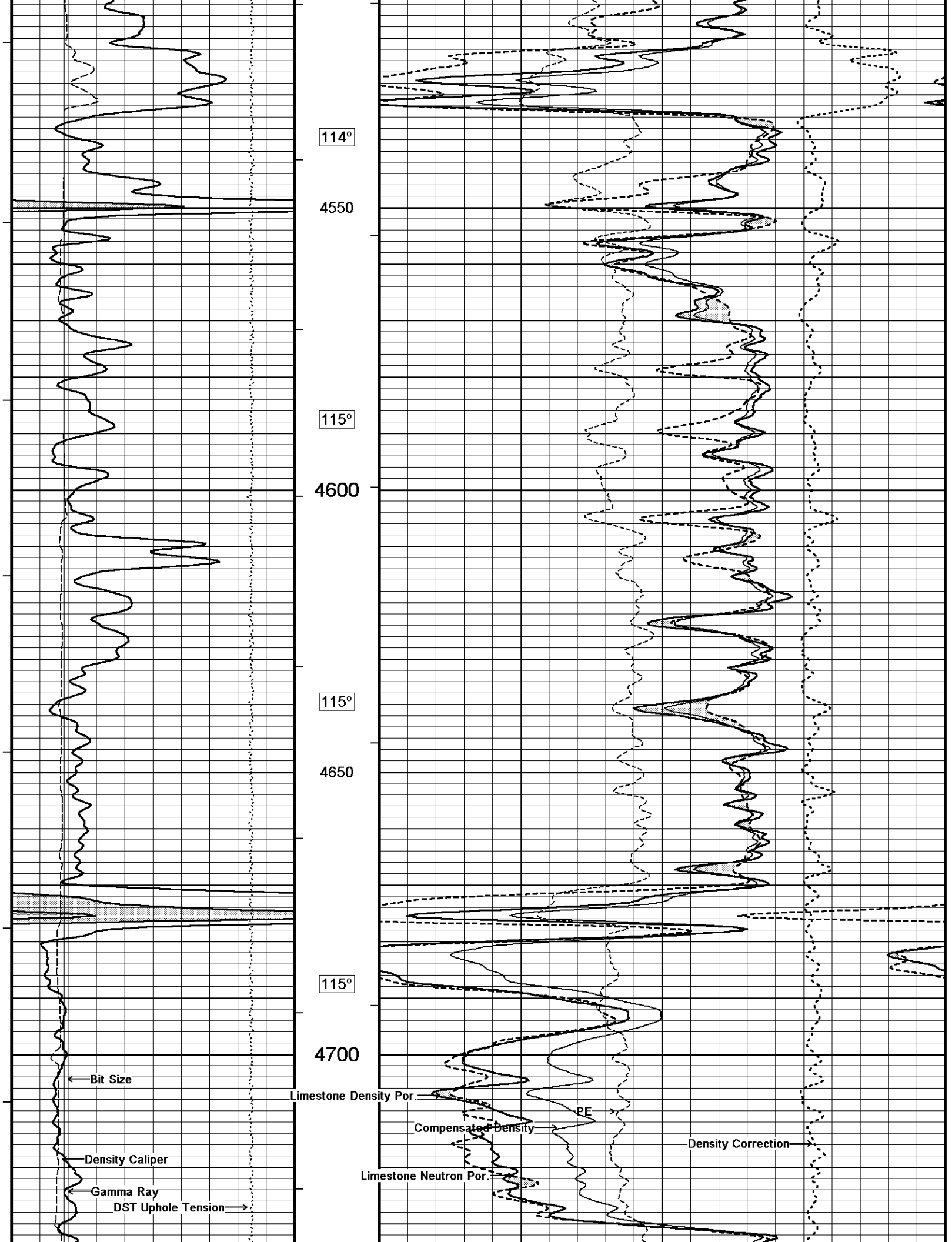
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

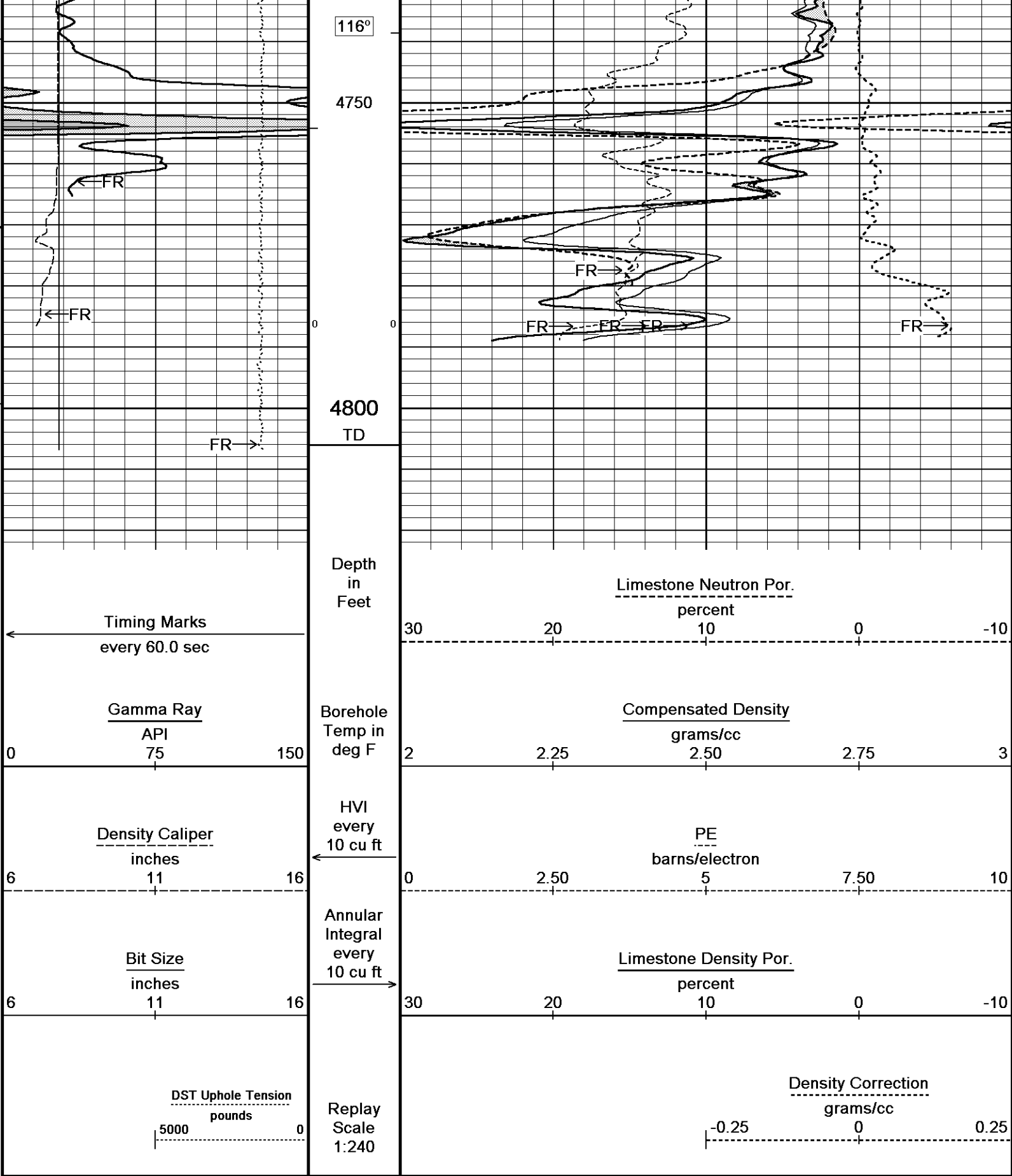










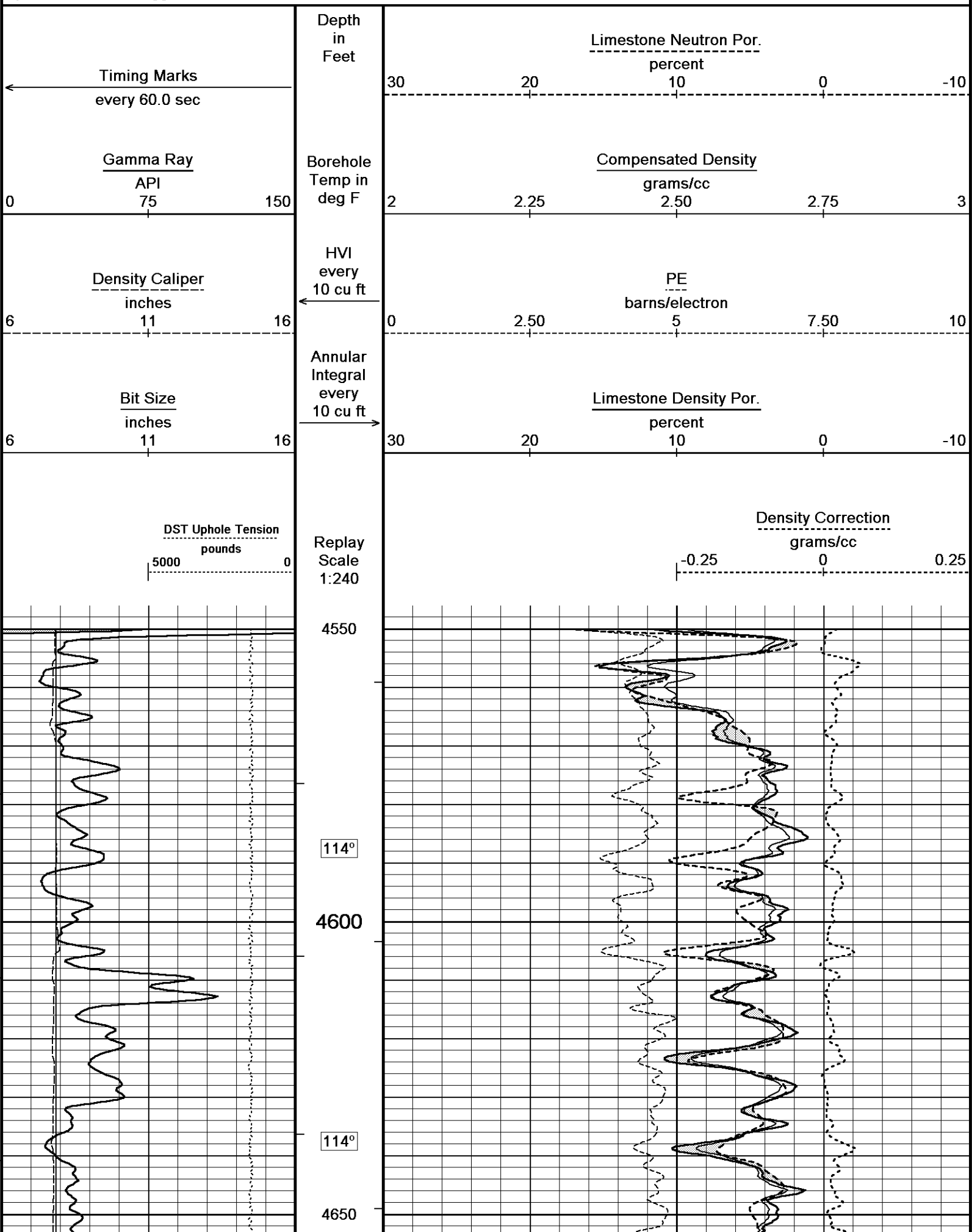


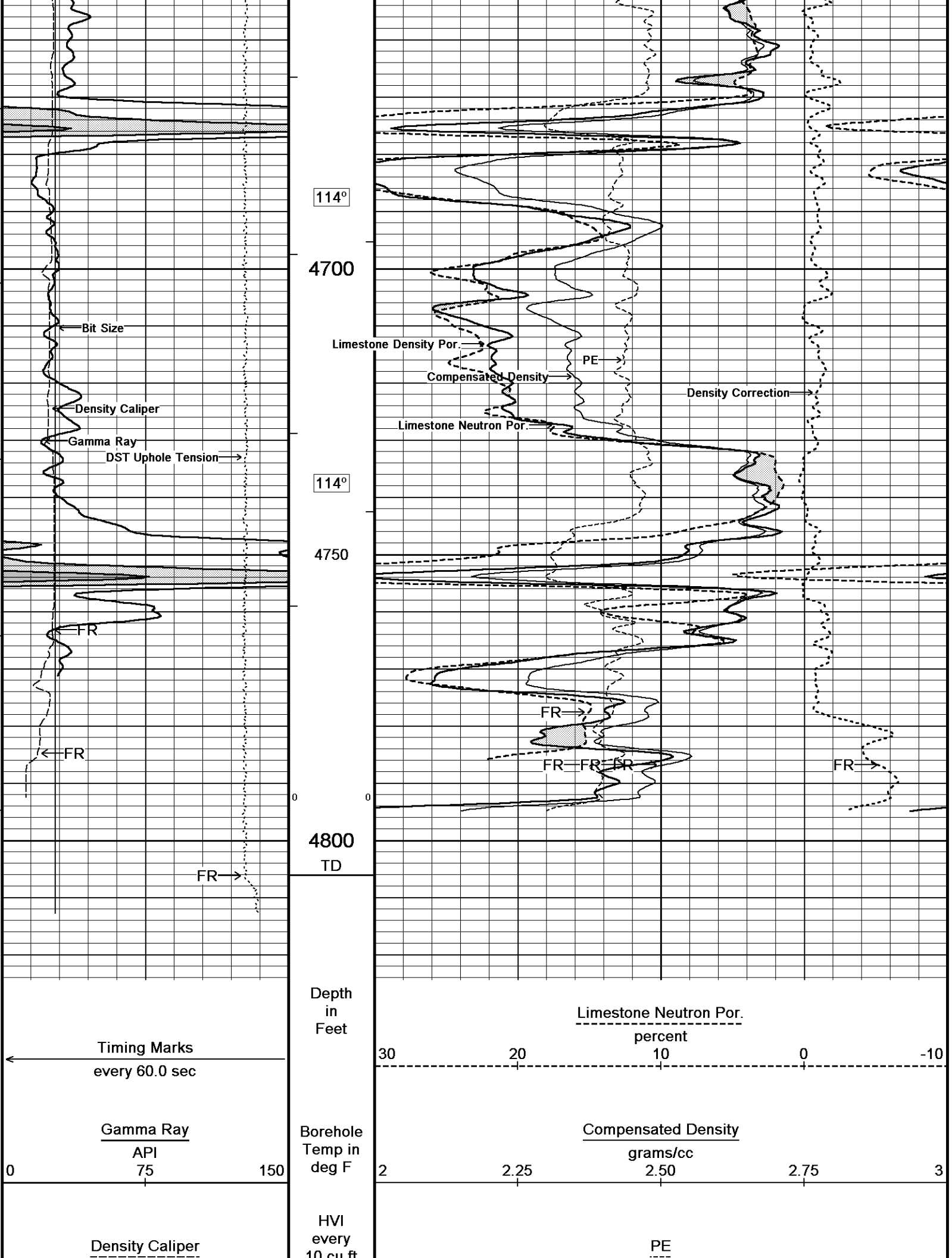
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus\Data\McCoy Schmidt A 7-29\Schmidt A 7 29_005.dta
System Versions: Processed with 11.03.4044 Plotted with 13.02.6600

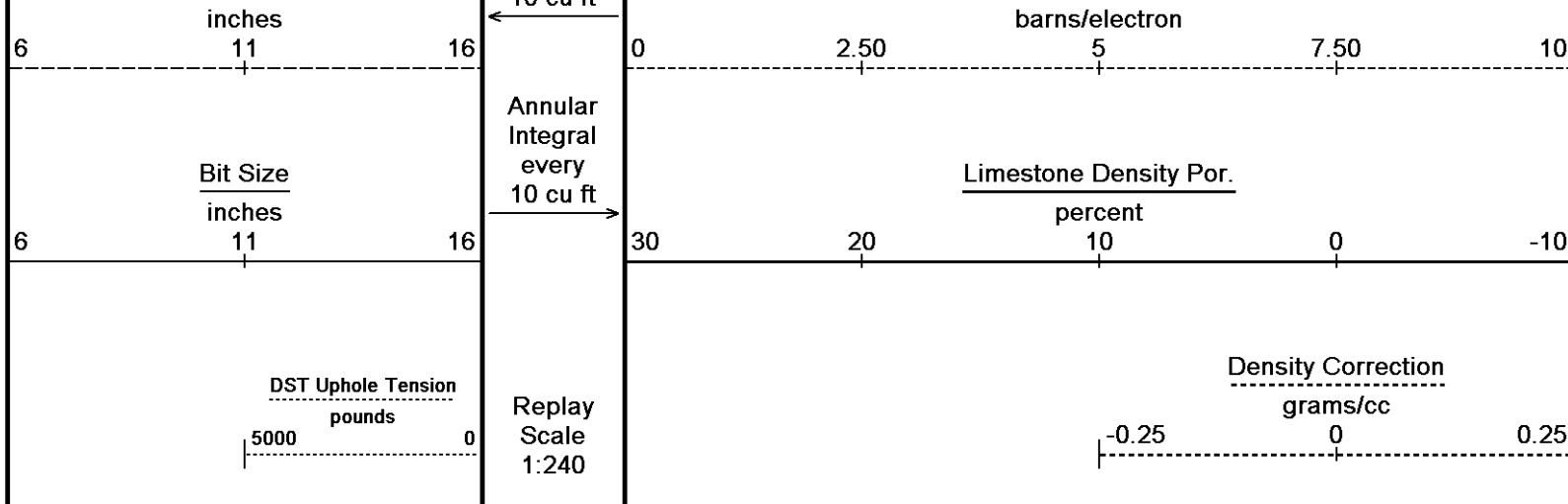
Plotted on 24-JUN-2012 15:15
Recorded on 24-JUN-2012 08:44

↑ 5 INCH MAIN ↑

↓ REPEAT SECTION ↓







Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 24-JUN-2012 15:15
 Filename: C:\Minimus\Data\McCoy Schmidt A 7-29\Schmidt A 7 29_003.dta
 System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 13.02.6600

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION

C:\Minimus\Data\McCoy Schmidt A 7-29\Schmidt A 7 29_005.dta

General Constants All 000 Last Edited on 24-JUN-2012,10:50

General Parameters
 Mud Resistivity 1.180 ohm-metres
 Mud Resistivity Temperature 97.200 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 4.500 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 21-JUN-2012 06:37

Reading No	Measured	
1	13740.45	0.00
2	13781.97	403.40

Gamma Calibration MCG-C 84 Field Calibration on 19-JUN-2012 09:17

	Measured	Calibrated (API)
Background	70	47
Calibrator (Gross)	1142	772
Calibrator (Net)	1072	725

Gamma Constants MCG-C 84 Last Edited on 24-JUN-2012,07:58

Gamma Calibrator Number	GR38	
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 84 Field Calibration on 28-MAY-2012,07:31

	Measured	Calibrated (mV)

Reference 1	Measured	Calibrated (mV)
Reference 2	103.5	100.0
	-96.9	-100.0
High Resolution Temperature Calibration MCG-C 84		
	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00
High Resolution Temperature Constants MCG-C 84		
Pre-filter Length	11	Field Calibration on 28-MAY-2012,07:32
Caliper Calibration MML-A 16		
Base Calibration		Base Calibration on 19-JUN-2012 08:49
Reading No	Measured	Calibrator Size (in)
1	14508	5.98
2	17799	7.97
3	21144	9.86
4	25027	11.92
5	0	0.00
6	N/A	N/A
Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	6.01	5.98
Micro Normal and Micro Inverse Calibration MML-A 16		
Base Calibration		Base Calibration on 19-JUN-2012 08:56
		Field Check on 19-JUN-2012 08:58
Channel	Measured	Calibrated (ohm-m)
	Resistor 1	Resistor 2
Micro Normal	12.2	60.2
Micro Inverse	15.6	78.4
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		
Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159	Last Edited on 24-JUN-2012,06:45
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		Base Calibration on 23-MAY-2012 14:31
		Field Check on 19-JUN-2012 10:25
	Measured	Calibrated (cps)
	Near	Far
	3164	98
Ratio	32.187	33.764
Field Calibrator at Base		Calibrated (cps)
		1615
Ratio		0.697
Field Check		Calibrated (cps)
		1643
Ratio		0.694
Neutron Constants MDN-A.B 65		
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	1.07	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu

Calistone Sigma	4.70	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	0	
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 55

Base Calibration on 19-JUN-2012 09:07
Field Check on 19-JUN-2012 09:11

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	952.0	126.8
Base Check		281.3
Field Check		281.4

FE Constants MFE-A.A 55

Last Edited on 24-JUN-2012,06:46

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 12-JAN-2012,13:34
Field Check on 19-JUN-2012 10:18

Base Calibration

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

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	18.3	3851.8
2	0.0	0.0	31.6	3629.7
3	0.0	0.0	28.6	3049.6
4	0.0	0.0	18.3	2079.1
Deep	0.0	0.0	16.0	1911.0
Medium	0.0	0.0	42.5	4061.0
Shallow	0.0	0.0	49.5	5483.9

Array Temperature 0.0 80.9 Deg F

Induction Constants MAI-A.A 45

Last Edited on 24-JUN-2012,07:59

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 12-JAN-2012,13:36

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-A.A 45

Last Edited on 12-JAN-2012,11:13

Pre-filter Length	11
-------------------	----

Caliper Calibration MPD-B 31

Base Calibration on 17-JUN-2012 20:26

Field Calibration on 17-JUN-2012 20:27

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	17360	3.99
2	25891	5.98
3	34800	7.97
4	43168	9.86
5	52528	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.00	5.98

Photo Density Calibration MPD-B 31

Base Calibration on 17-JUN-2012 20:49

Field Check on 17-JUN-2012 21:02

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	48464	24458	59556	30836
Reference 2	19785	1991	24941	2541

Field Check at Base

695.5 853.6

Field Check

696.0 855.6

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	128	610		
Reference 1	19401	48326	0.404	0.371
Reference 2	5740	19688	0.294	0.272

Field Check at Base

128.0 610.0

Field Check

128.1

605.4

Density Constants MPD-B 31

Last Edited on 24-JUN-2012,07:58

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	1.07	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

DOWNHOLE EQUIPMENT

C:\Minimus\Data\McCoy Schmidt A 7-29\Schmidt A 7 29_005.dta

Compact Comms Gamma
MCG-C 84 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

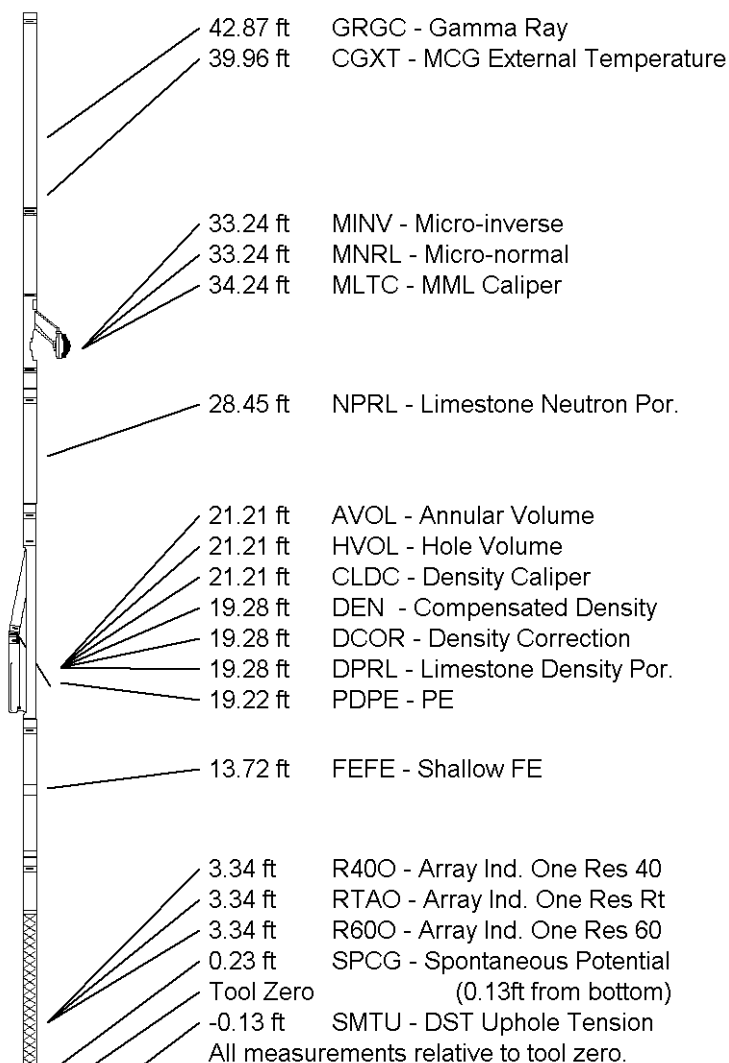
Compact Neutron
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

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

Compact Focussed Electric
MFE-A.A 55 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: 48.16 ft Weight: 383.6 lb





COMPANY	McCoy Petroleum Corp.				
WELL	Schmidt 'A' #7-29				
FIELD					
PROVINCE/COUNTY	Haskell				
COUNTRY/STATE	U.S.A. / Kansas				
Elevation Kelly Bushing	2856.00	feet	First Reading	4806.00	feet
Elevation Drill Floor	2858.00	feet	Depth Driller	4805.00	feet
Elevation Ground Level	2843.00	feet	Depth Logger	4806.00	feet
			COMPACT PHOTO DENSITY COMPENSATED NEUTRON		