COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG

Weatherford®

COMPANY	OXY USA, INC.
WELL	ELIZABETH A. COX #6
FIELD	VICTORY
PROVINCE/COUNTY	HASKELL
COUNTRY/STATE	U.S.A. / KANSAS
LOCATION	2080' FSL & 1230' FEL

40 Years of Wireline 1970 2010

SEC	TWP	RGE
8	30S	33W

Other Services
MAI/MFE
MSS

API Number 15-081-21943
Permit Number

Permanent Datum G.L., Elevation 2968 feet
Log Measured From K.B. @ 11 FEET above Permanent Datum
Drilling Measured From K.B.

Elevations:	feet
KB	2979.00
DF	2977.00
GL	2968.00

Date	05-JUL-2011		
Run Number	ONE		
Depth Driller	5560.00 feet		
Depth Logger	5566.00 feet		
First Reading	553.00 feet		
Last Reading	3900.00 feet		
Casing Driller	1815.00 feet		
Casing Logger	1818.00 feet		
Bit Size	8.750 inches		
Hole Fluid Type	CHEMICAL		
Density / Viscosity	9.10 lb/USg	41.00 CP	
PH / Fluid Loss	10.40	7.60 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	1.37 @ 84.0 ohm-m		
Rmf @ Measured Temp	1.10 @ 84.0 ohm-m		
Rmc @ Measured Temp	1.64 @ 84.0 ohm-m		
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.84 @139.0 ohm-m		
Time Since Circulation	5 HOURS		
Max Recorded Temp	140.00 deg F		
Equipment Name	COMPACT		
Equipment / Base	13057	LIB	
Recorded By	A. GIAMBALVO		
Witnessed By	AUSTIN GARNER	BILL KEMP	
S.O. / JOB #	3531101	LB11-154	

BOREHOLE RECORD

Last Edited: 05-JUL-2011 19:05

Bit Size inches	Depth From feet	Depth To feet
8.750	1818.00	5566.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	1818.00	36.00

REMARKS

Tools Ran: MCG, MML, MDN, MPD, SKJ, MFE, MAI, MSS.
Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE MSS and MAI 0.5 inch standoffs used.
2.71 g/cc Limestone Density Matrix used to calculate porosity.
Sonic porosity calculated using a Limestone scale (47.5 usec/ft).
All intervals logged and scaled per customer's request.
Annular volume with 7 inch production casing from TD to 3500 = 305 cu. ft.
Service order #3531101
Rig: Trinidad Drilling #202
Engineer: A. Giambalvo
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.

5 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

Plotted on 05-JUL-2011 19:07
Recorded on 05-JUL-2011 16:55

Timing Marks
every 60.0 sec

Depth in Feet

Limestone Neutron Por.
percent
30 20 10 0 -10

Gamma Ray
API
0 75 150

Borehole Temp in deg F

Limestone Density Por.
percent
30 20 10 0 -10

Density Caliper
inches
6 11 16

HVI every 10 cu ft

PE
barns/electron
0 5 10

Density Correction
grams/cc
-0.25 0 0.25

Annular Integral every 10 cu ft

Bit Size
inches
6 11 16

Micro-normal
ohm metres
0 10

DST Uphole Tension
pounds
5000 0

Replay Scale 1:240

Micro-inverse
ohm metres
0 10

3900

120°

3950

121°

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

Limestone Density Por.

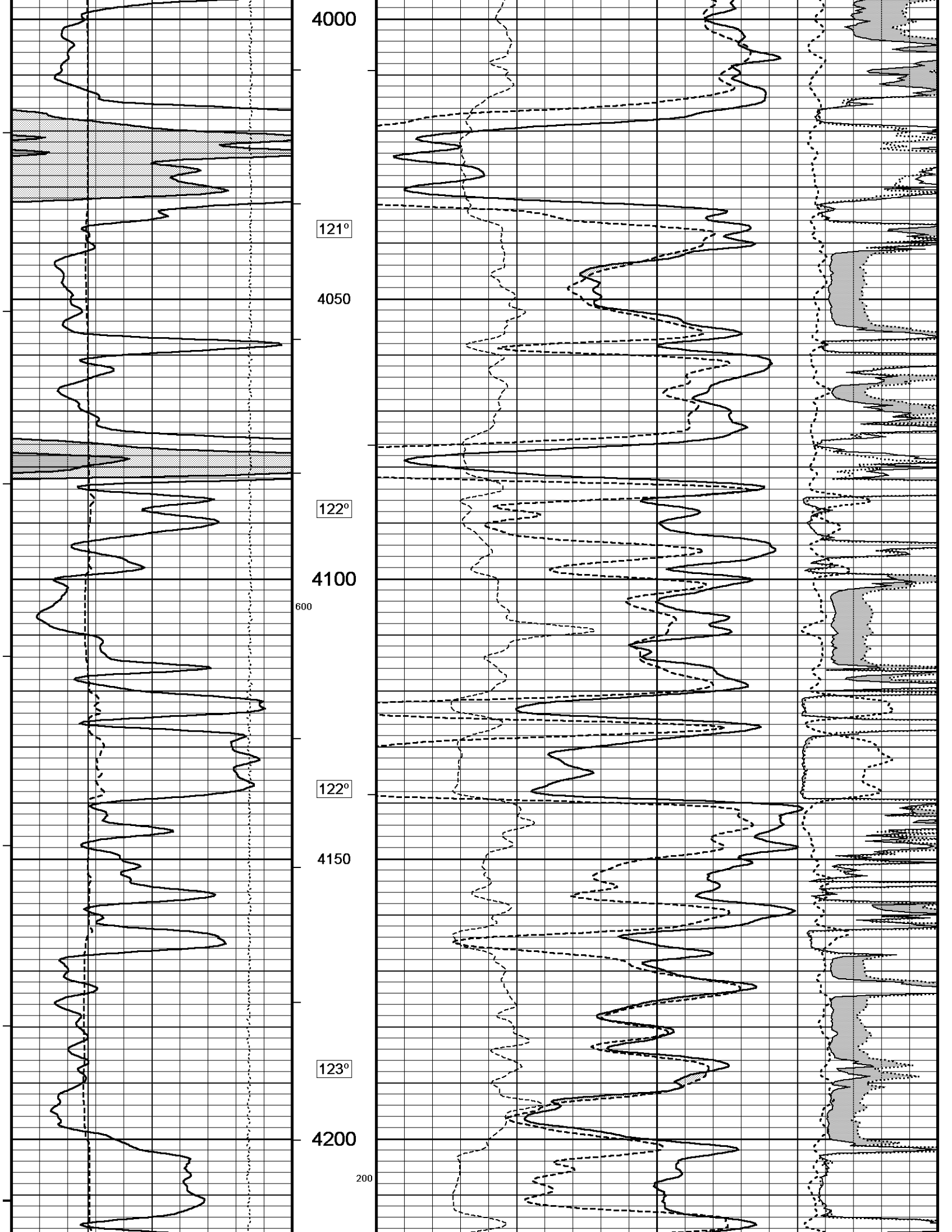
PE

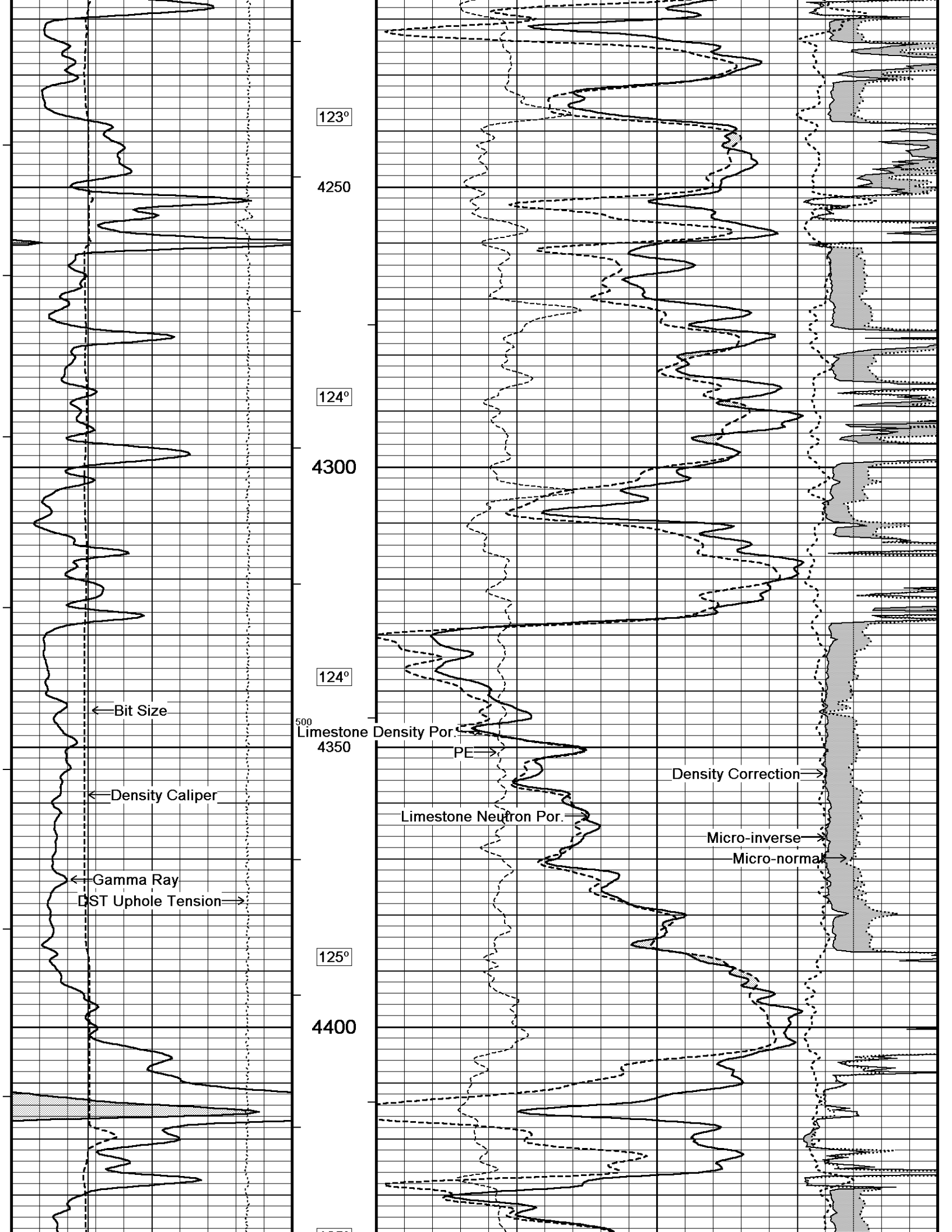
Density Correction

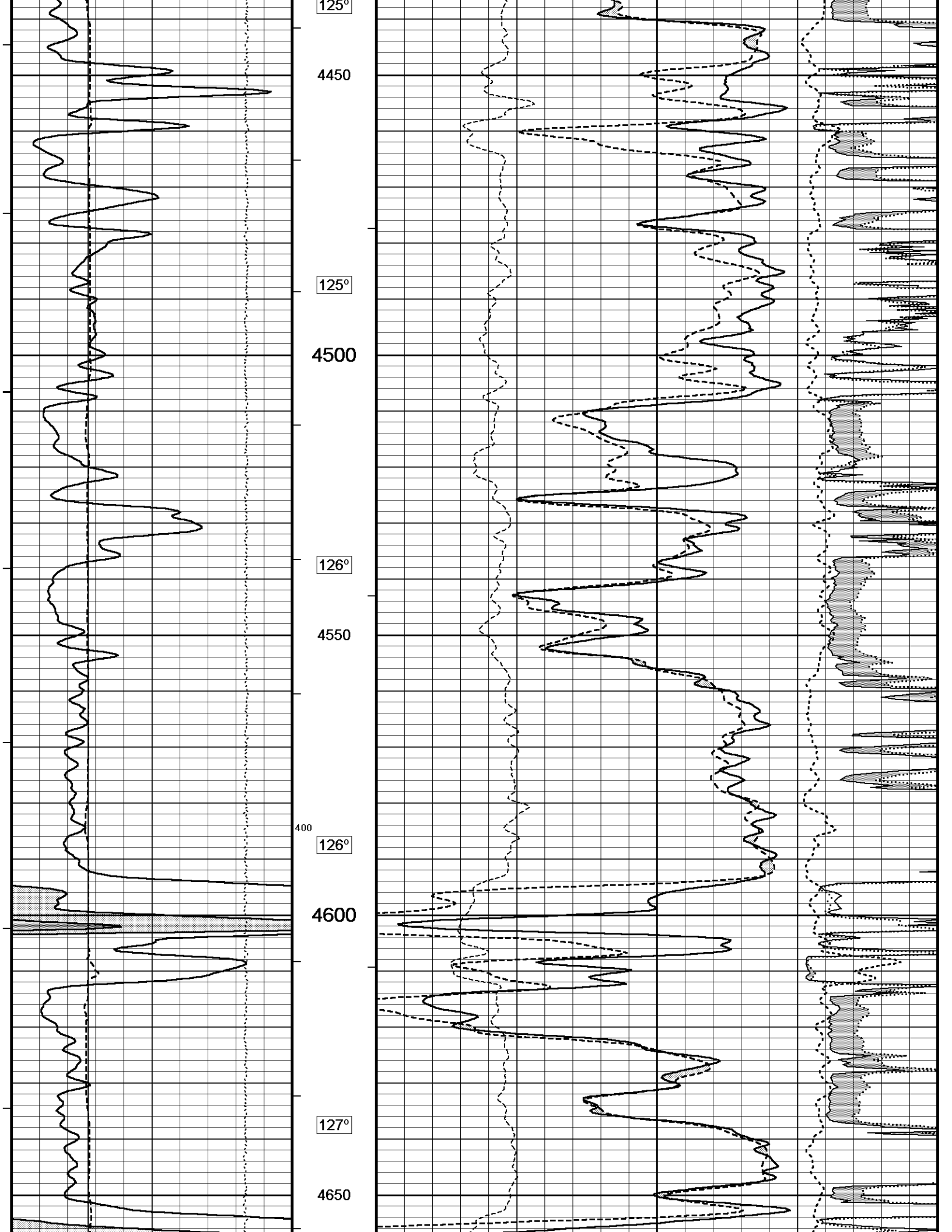
Limestone Neutron Por.

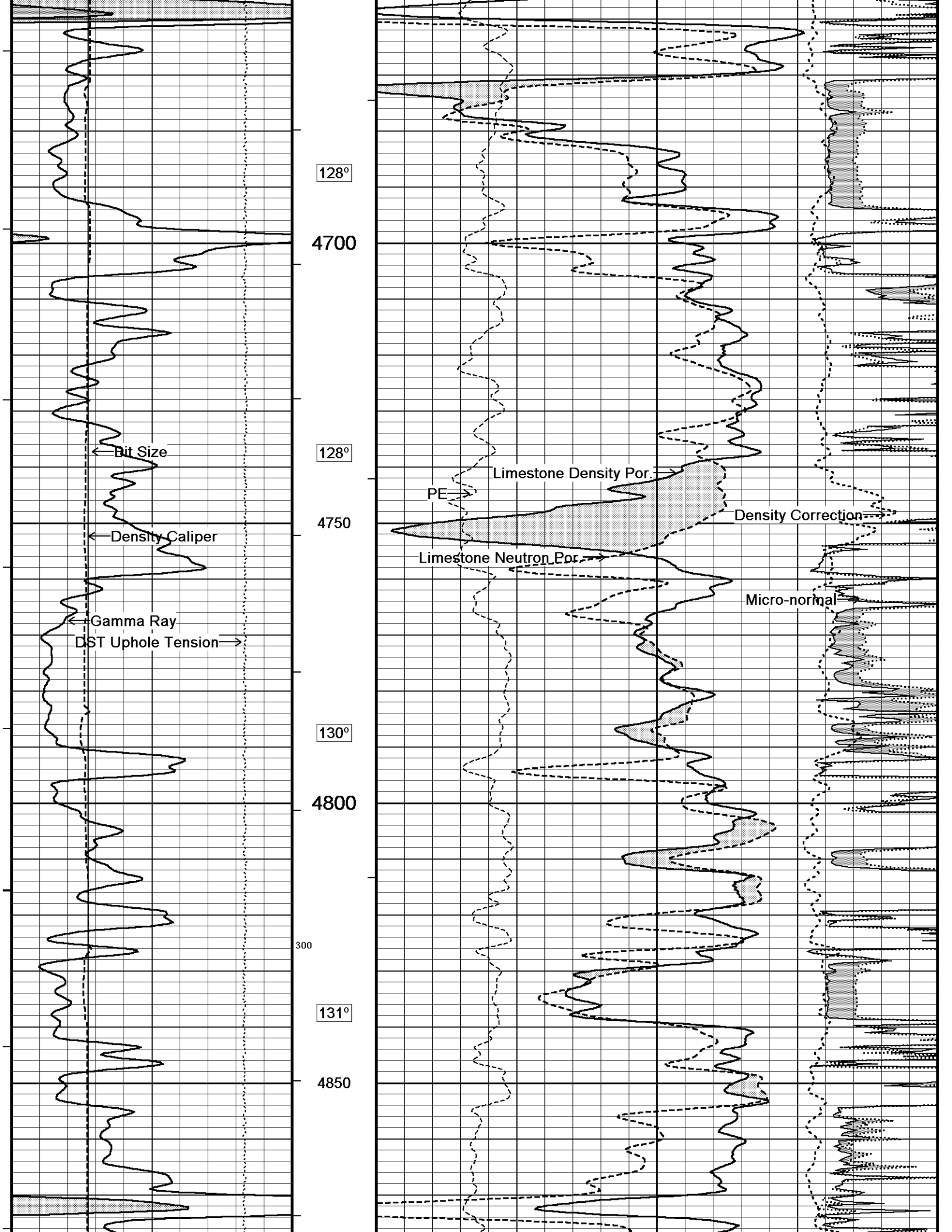
Micro-inverse

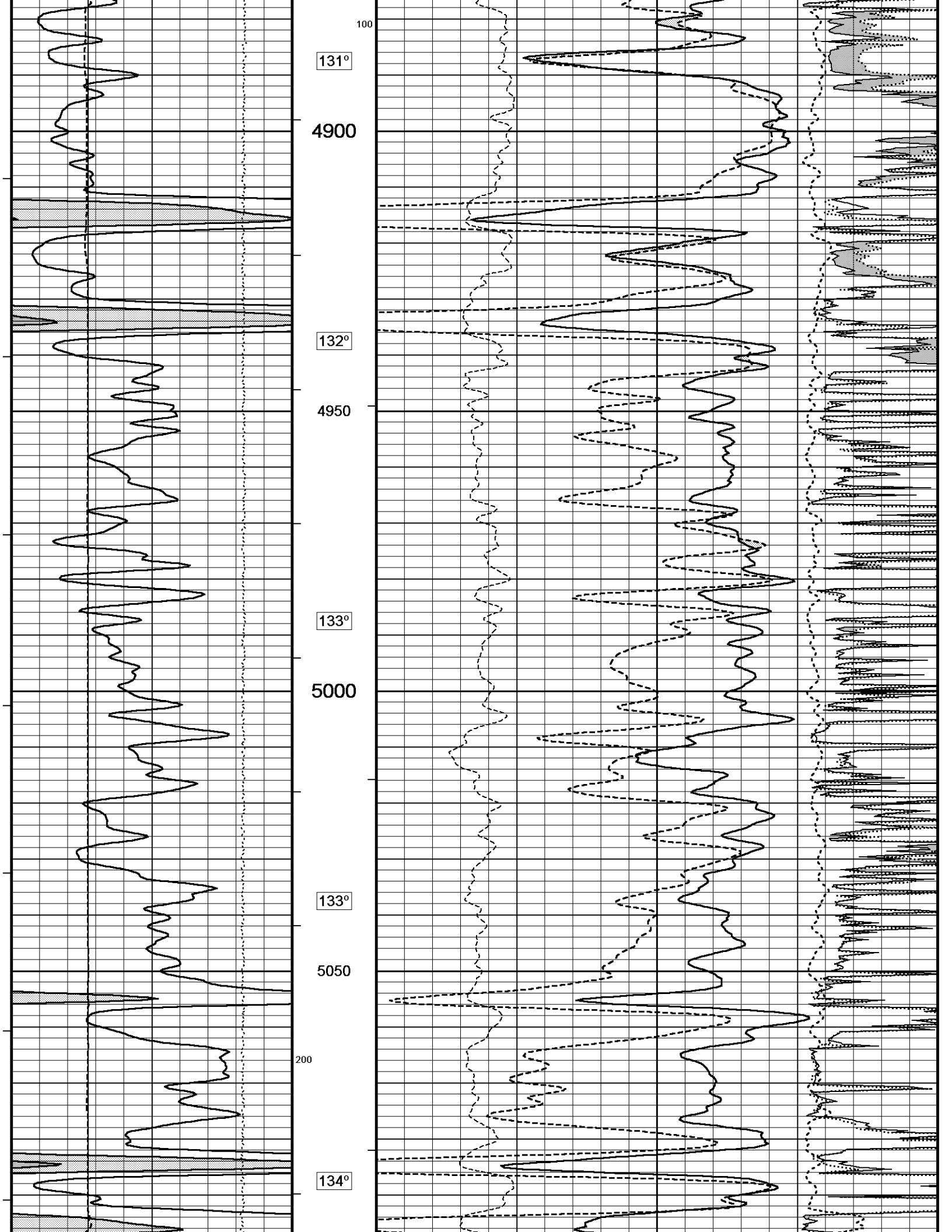
Micro-normal

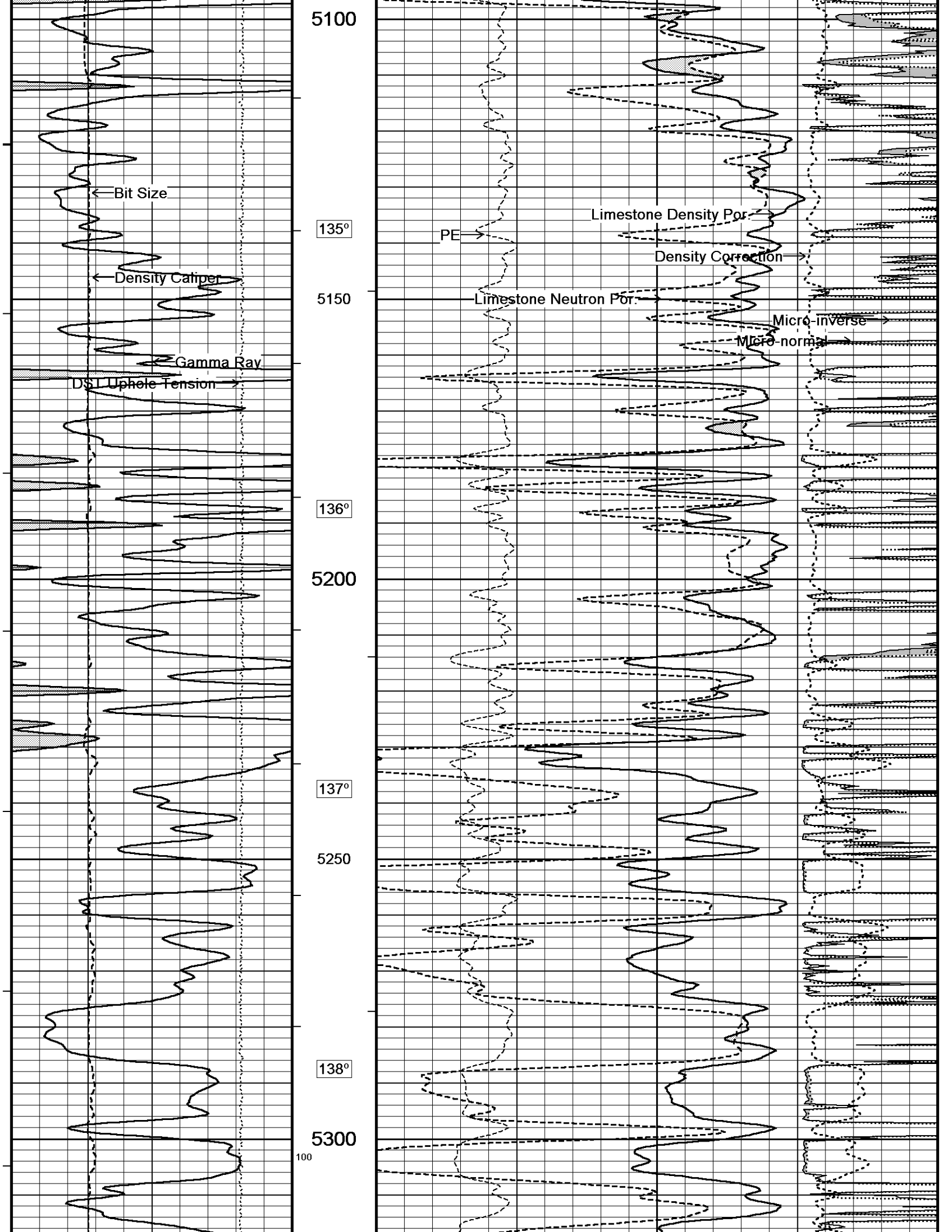

4000
121°
4050
122°
4100
600
122°
4150
123°
4200
200

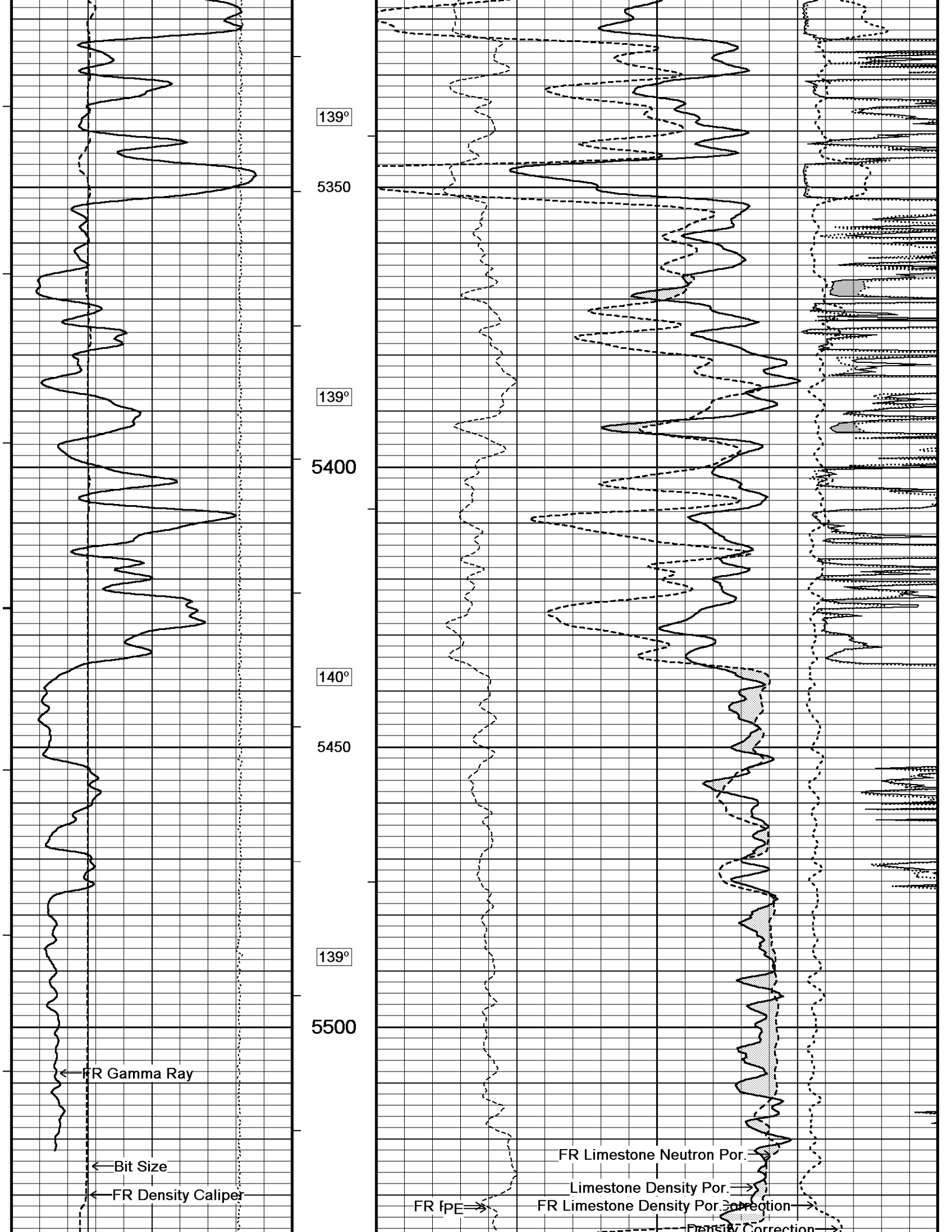

123°
4250
124°
4300
124°
500
4350
125°
4400
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
Limestone Density Por.
PE
Limestone Neutron Por.
Density Correction
Micro-inverse
Micro-normal

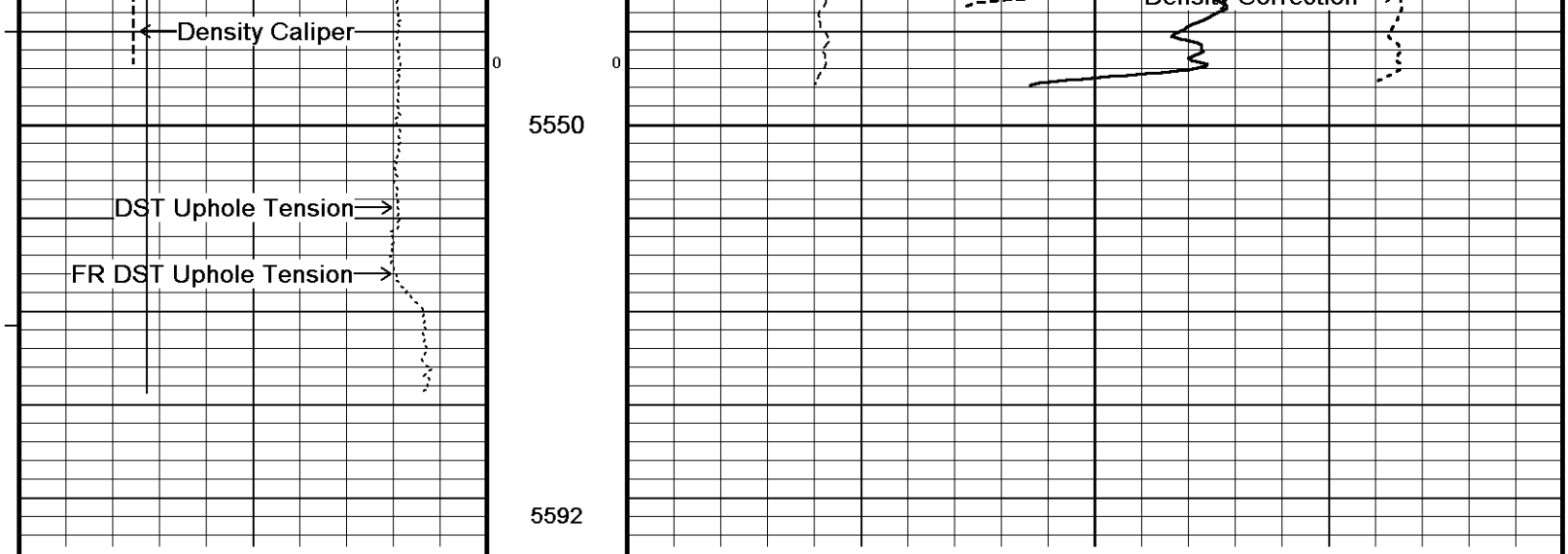

125°
4450
125°
4500
126°
4550
400
126°
4600
127°
4650


128°
4700
128°
Bit Size
Limestone Density Por
PE
Density Correction
4750
Density Caliper
Limestone Neutron Por
Micro-normal
Gamma Ray
DST Uphole Tension
130°
4800
300
131°
4850


100
131°
4900
132°
4950
133°
5000
133°
5050
200
134°


5100
Bit Size
135°
Density Caliper
5150
Gamma Ray
DST Uphole Tension
136°
5200
137°
5250
138°
5300
100
PE
Limestone Density Por.
Density Correction
Limestone Neutron Por.
Micro-inverse
Micro-normal


139°
5350
139°
5400
140°
5450
139°
5500
FR Gamma Ray
Bit Size
FR Density Caliper
FR PE
FR Limestone Neutron Por.
Limestone Density Por.
FR Limestone Density Por Correction
Density Correction



Depth in Feet

Timing Marks
every 60.0 sec

Limestone Neutron Por.
percent
30 20 10 0 -10

Gamma Ray
API
0 75 150

Borehole Temp in deg F

Limestone Density Por.
percent
30 20 10 0 -10

Density Caliper
inches
6 11 16

HVI every 10 cu ft

PE
barns/electron
0 5 10

Density Correction
grams/cc
-0.25 0 0.25

Annular Integral every 10 cu ft

Bit Size
inches
6 11 16

Micro-normal
ohm metres
0 10

DST Uphole Tension
pounds
5000 0

Micro-inverse
ohm metres
0 10

Replay Scale 1:240

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 05-JUL-2011 19:07
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta
Recorded on 05-JUL-2011 16:55
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

5 INCH MAIN PASS

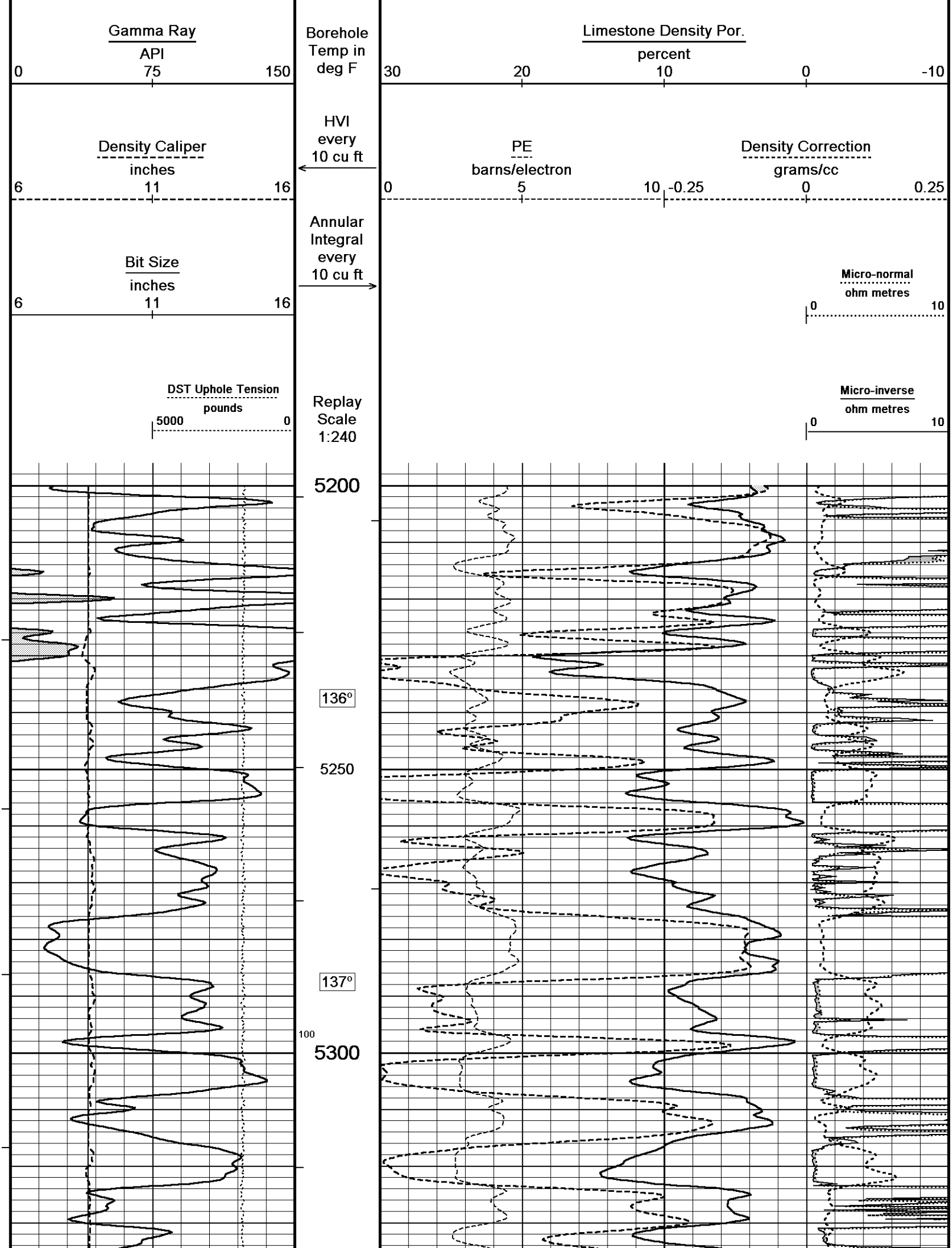
5 INCH REPEAT PASS

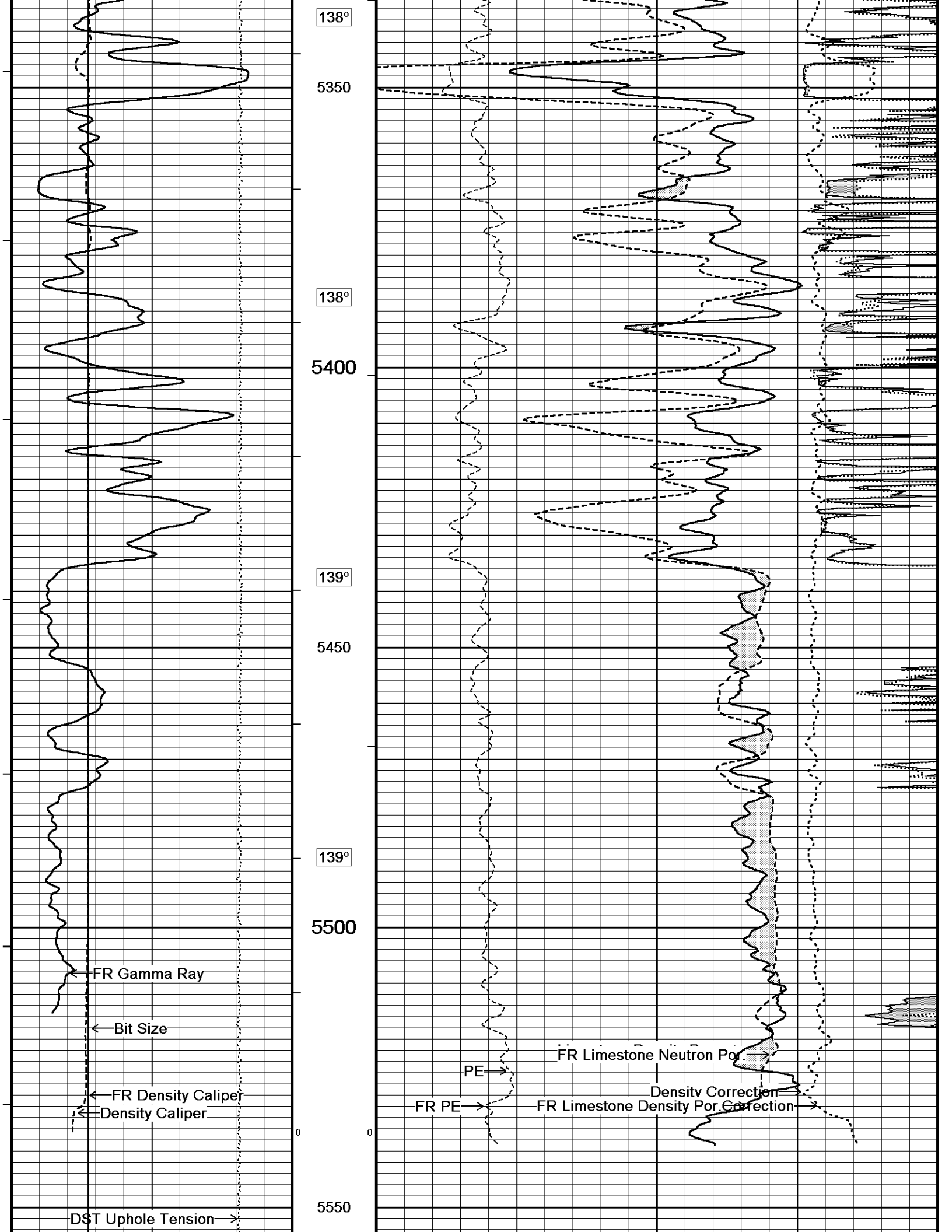
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 05-JUL-2011 19:07
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_003.dta
Recorded on 05-JUL-2011 16:18
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

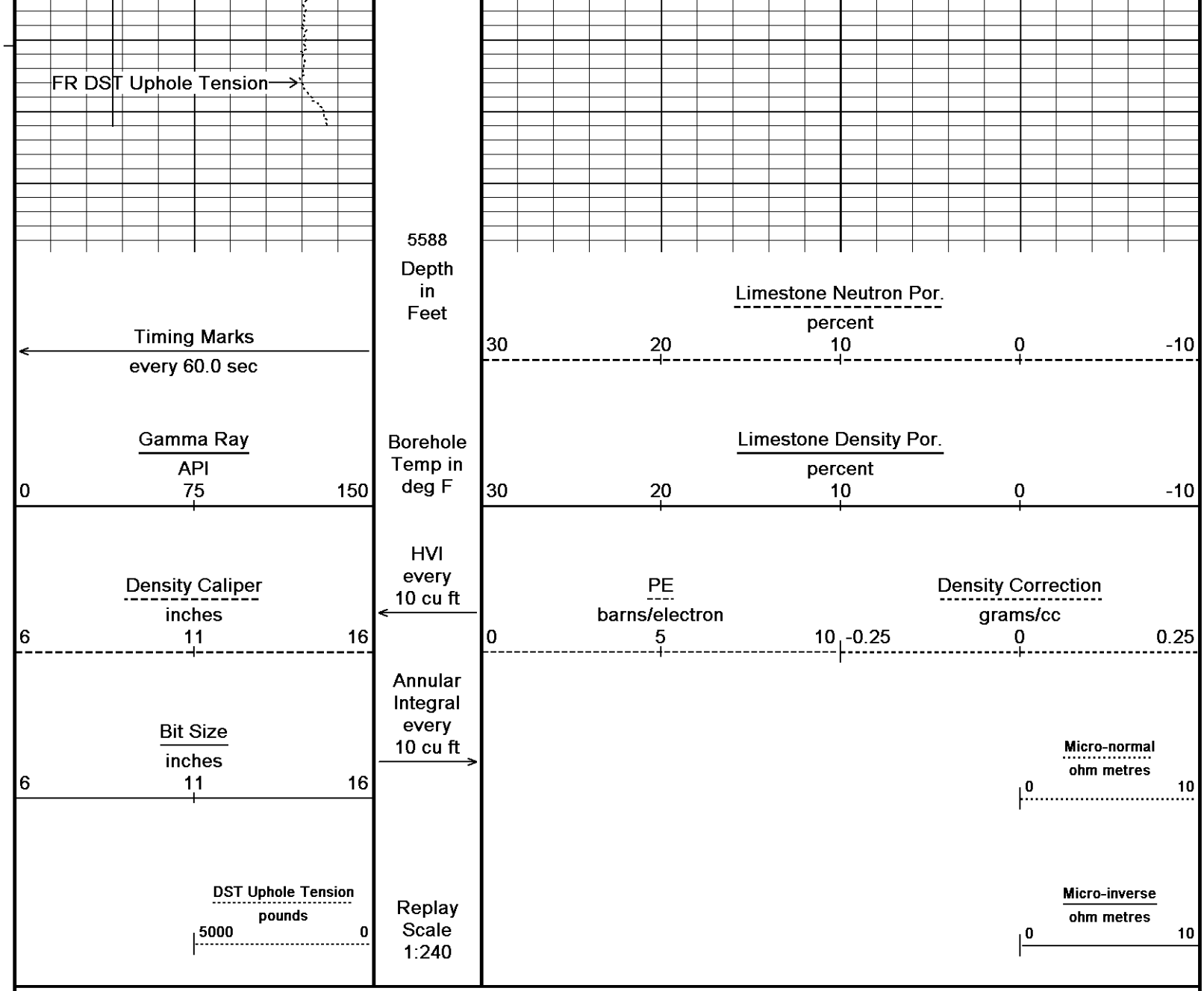
Depth in Feet

Timing Marks
every 60.0 sec

Limestone Neutron Por.
percent
30 20 10 0 -10


Gamma Ray
API
0
75
150
Borehole Temp in deg F
Limestone Density Por.
percent
30
20
10
0
-10
HVI every 10 cu ft
Density Caliper
inches
6
11
16
PE
barns/electron
0
5
10
Density Correction
grams/cc
-0.25
0
0.25
Annular Integral every 10 cu ft
Bit Size
inches
6
11
16
Micro-normal
ohm metres
0
10
DST Uphole Tension
pounds
5000
0
Micro-inverse
ohm metres
0
10
Replay Scale 1:240
5200
136°
5250
137°
100
5300


138°
5350
138°
5400
139°
5450
139°
5500
5550
FR Gamma Ray
Bit Size
FR Density Caliper
Density Caliper
DST Uphole Tension
PE
FR PE
FR Limestone Neutron Por
Density Correction
FR Limestone Density Por Correction
0
0

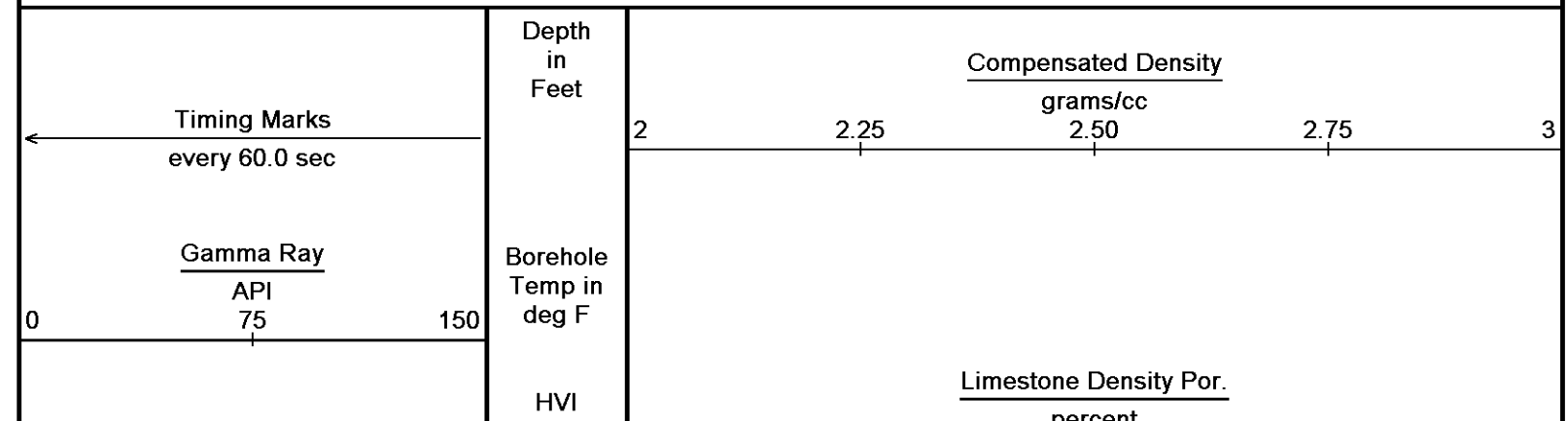


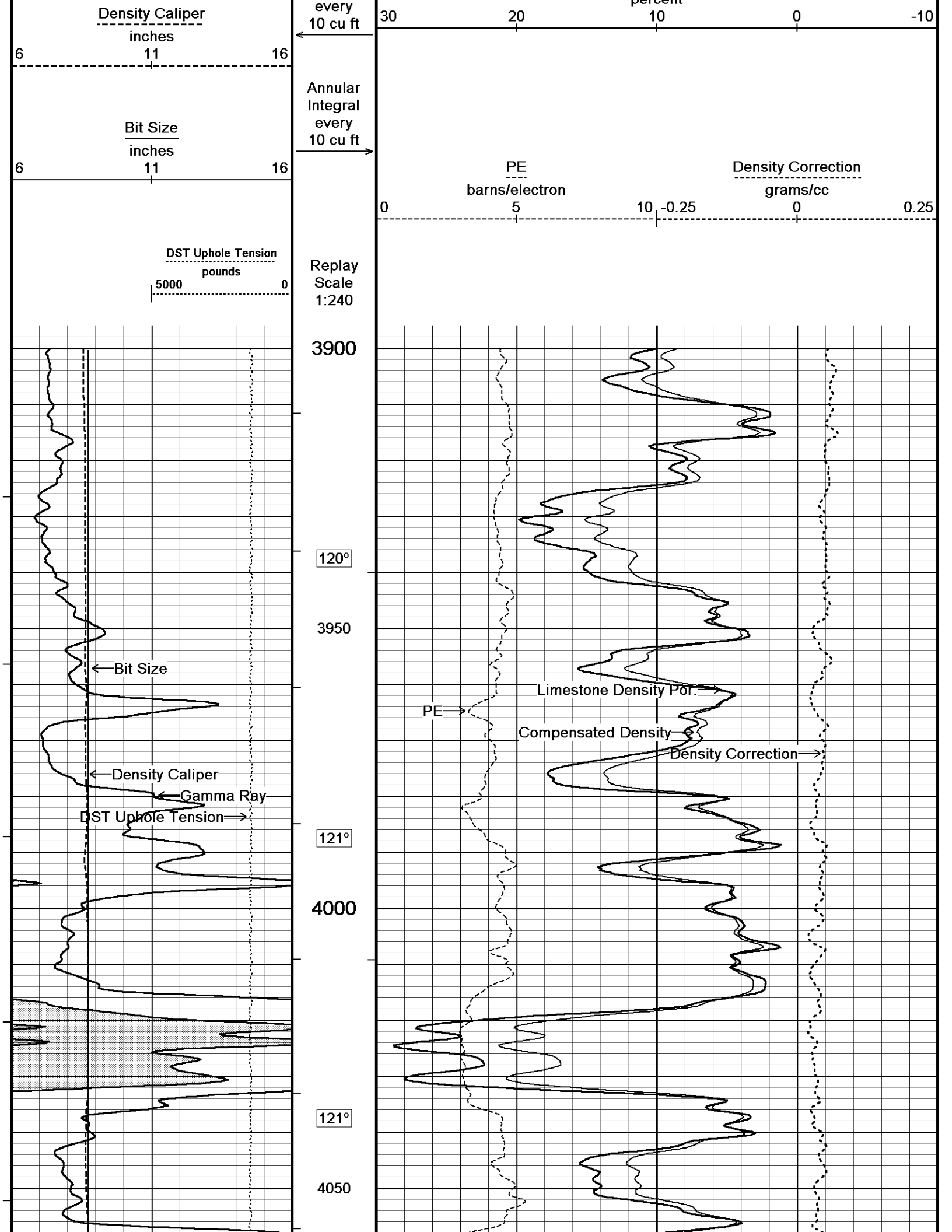
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 05-JUL-2011 19:07
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_003.dta
Recorded on 05-JUL-2011 16:18
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

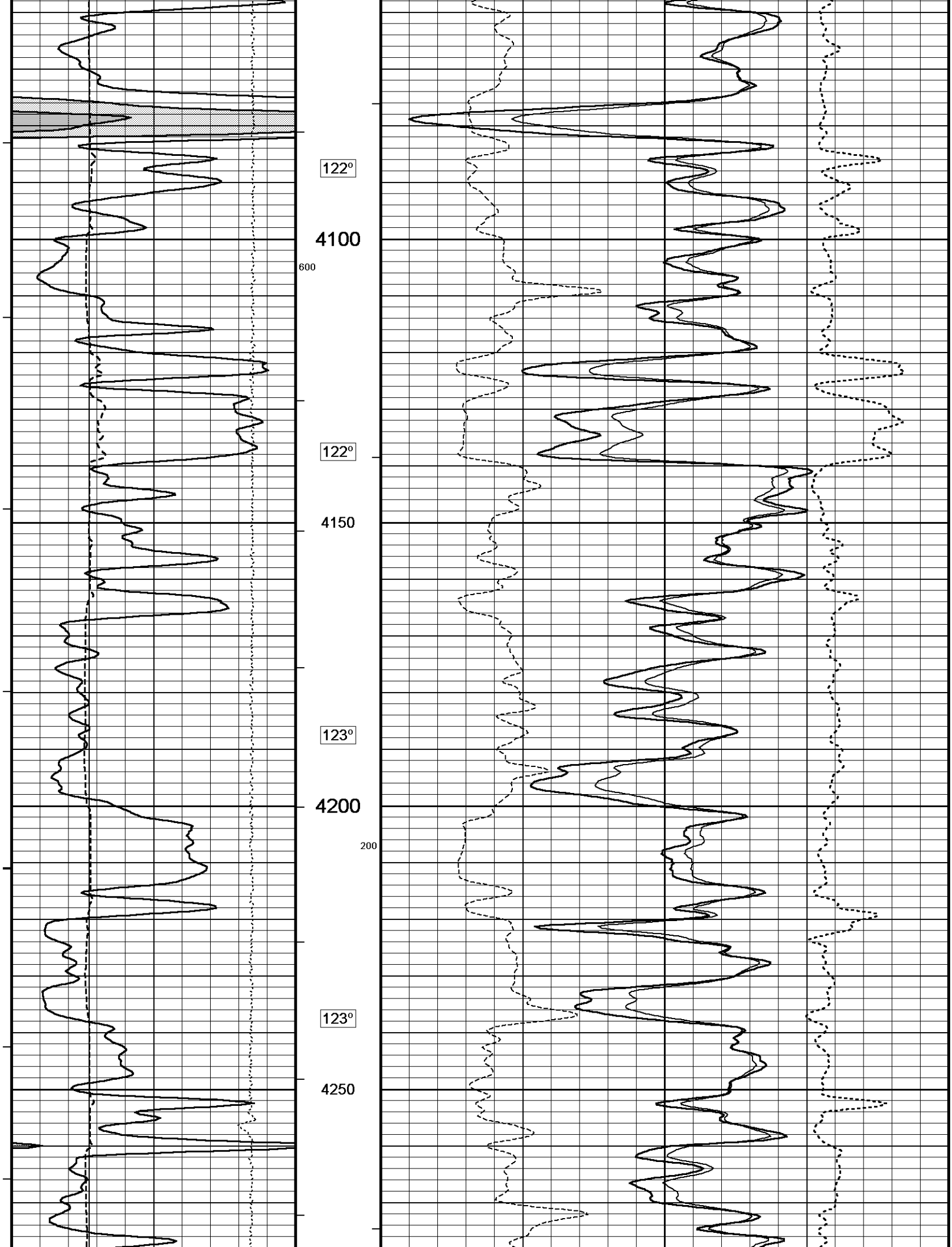
5 INCH REPEAT PASS

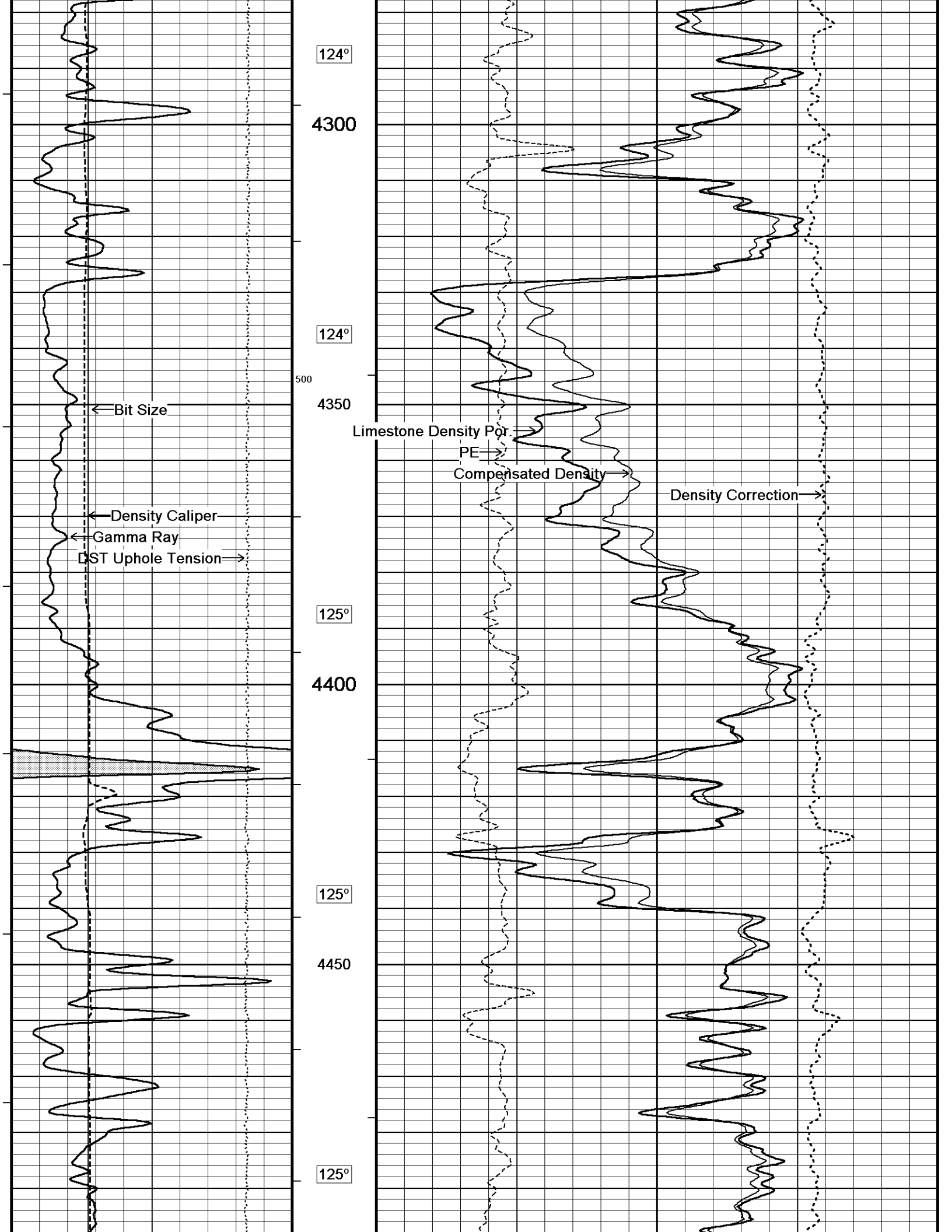
5 INCH MAIN PASS

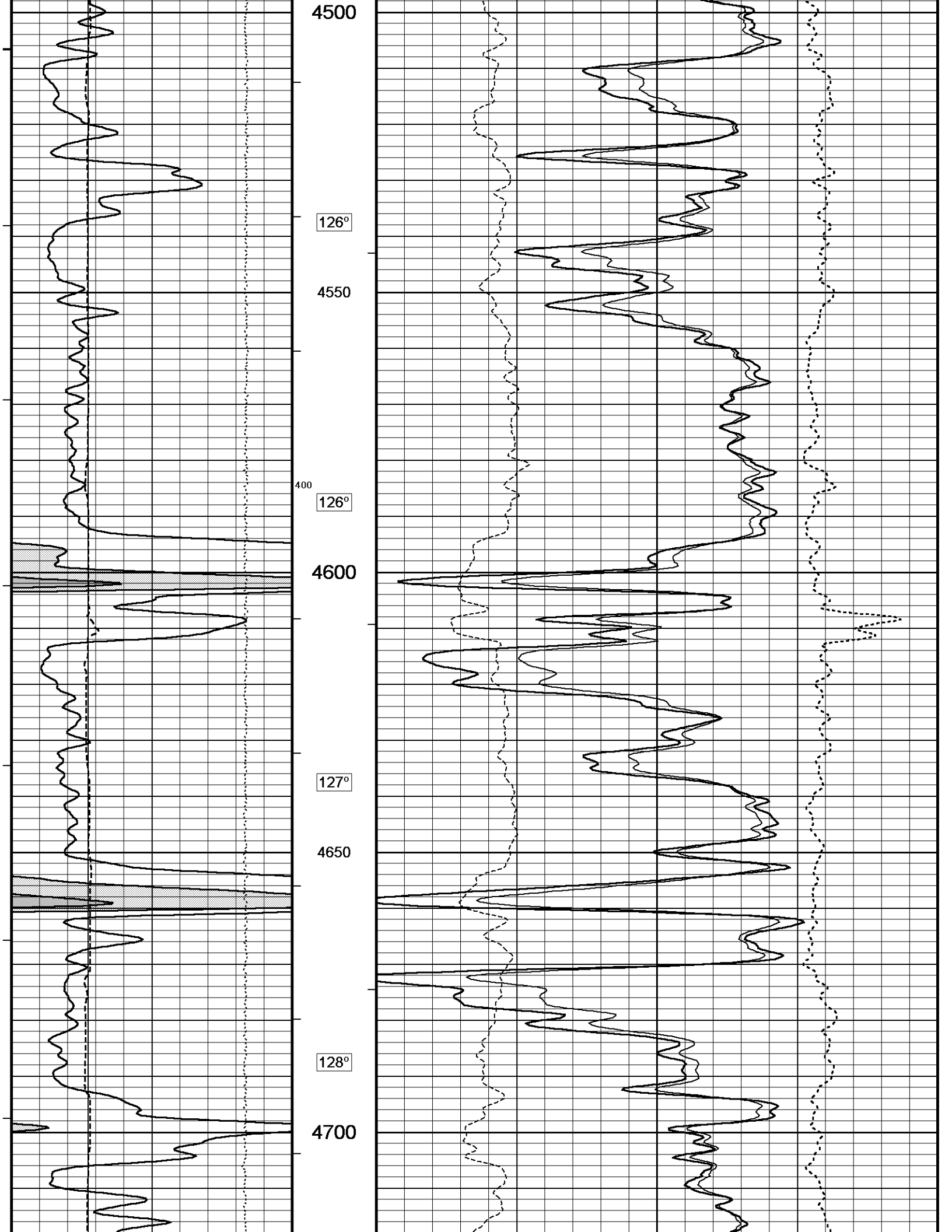
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 05-JUL-2011 19:07
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta
Recorded on 05-JUL-2011 16:55
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

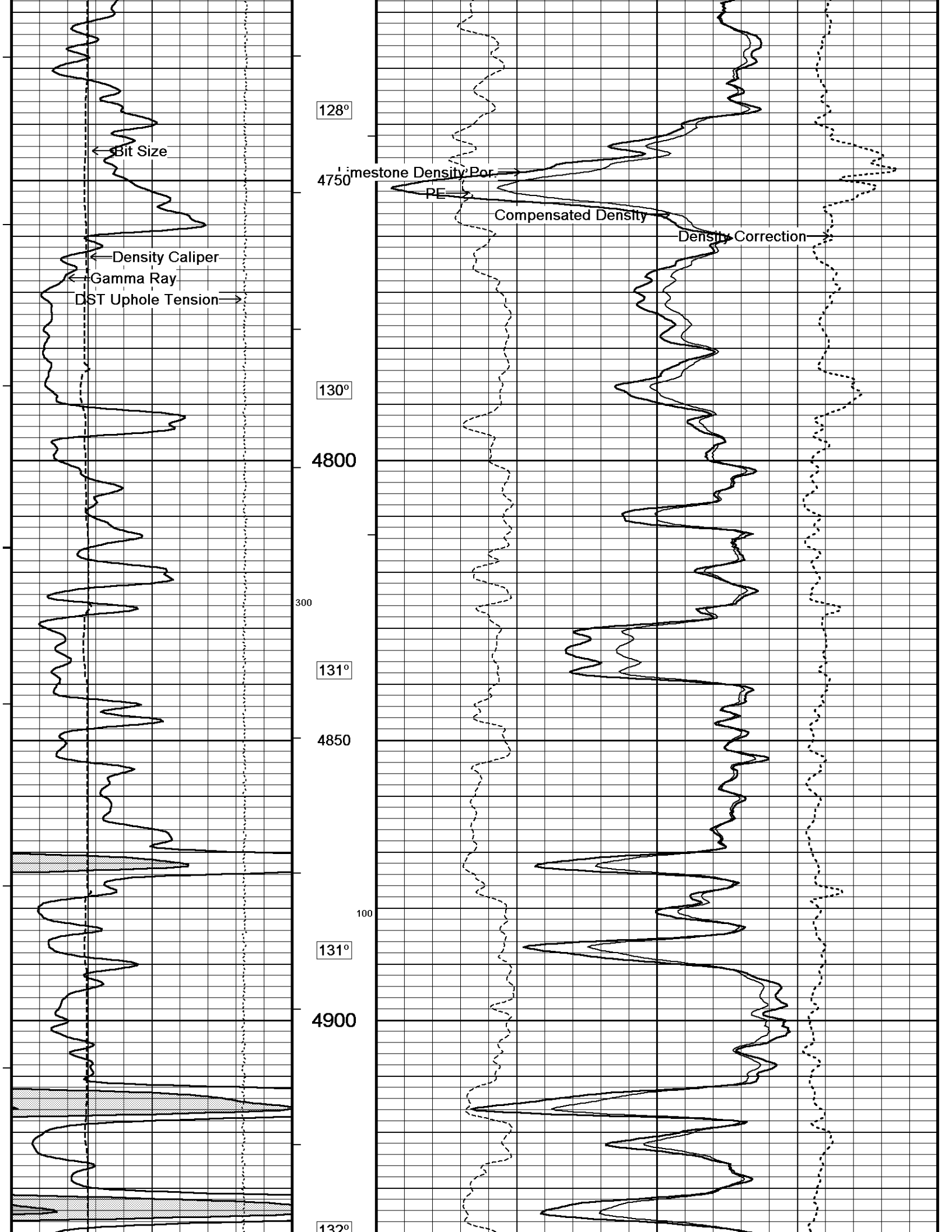


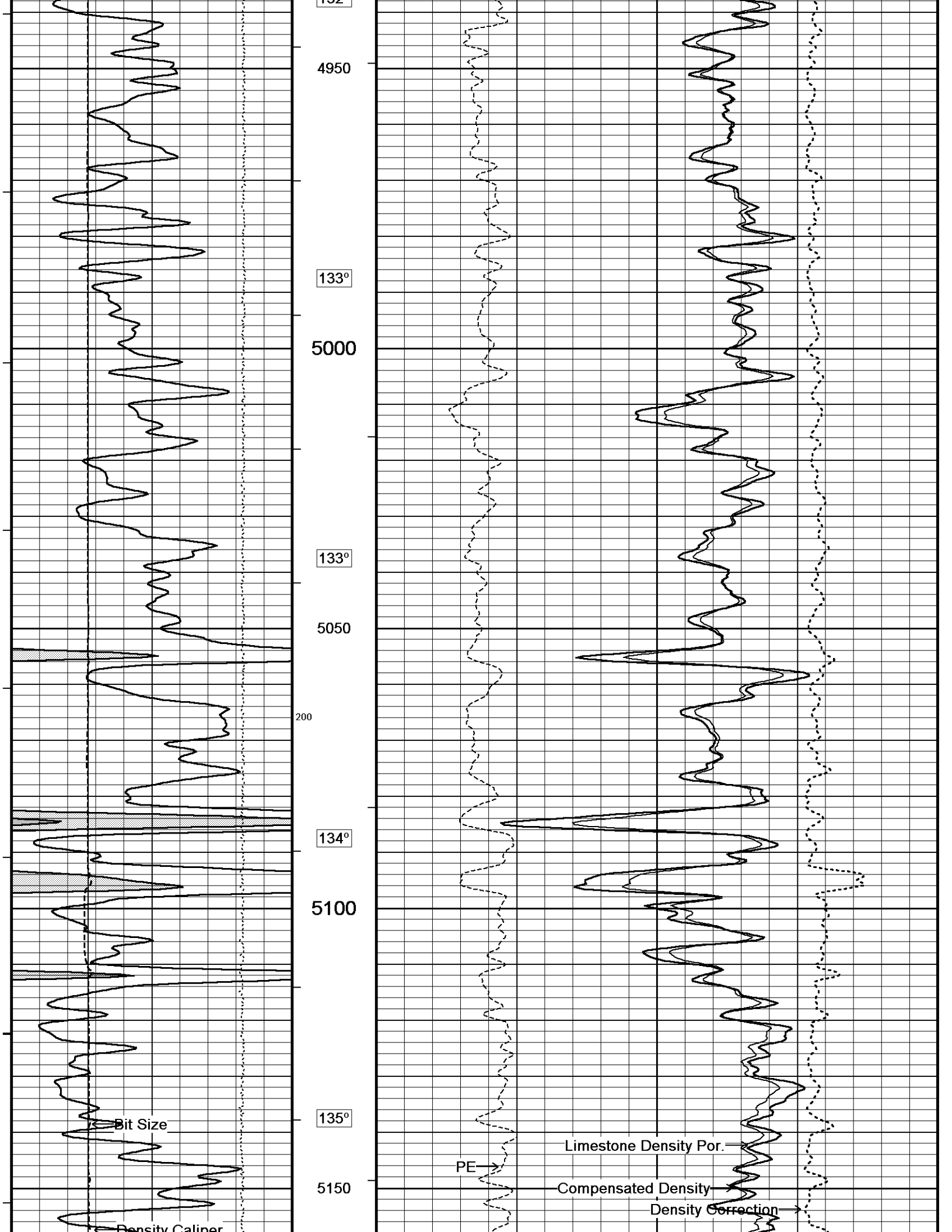

Density Caliper
inches
6
11
16
every
10 cu ft
30
20
10
0
-10
Annular
Integral
every
10 cu ft
Bit Size
inches
6
11
16
PE
barns/electron
0
5
10
Density Correction
grams/cc
-0.25
0
0.25
DST Uphole Tension
pounds
5000
0
Replay
Scale
1:240
3900
120°
3950
Bit Size
Limestone Density Por.
PE
Compensated Density
Density Correction
Density Caliper
Gamma Ray
DST Uphole Tension
121°
4000
121°
4050

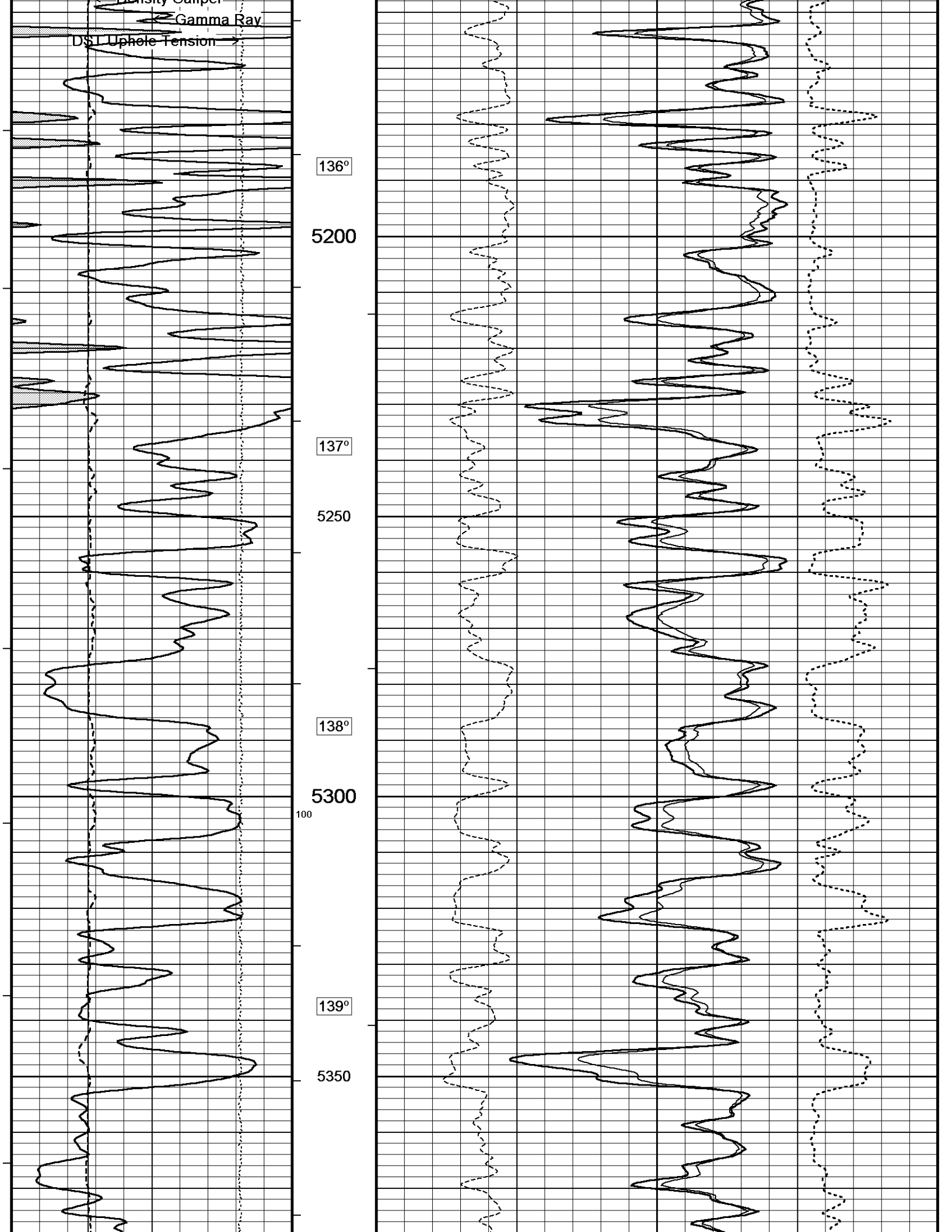

122°
4100
600
122°
4150
123°
4200
200
123°
4250

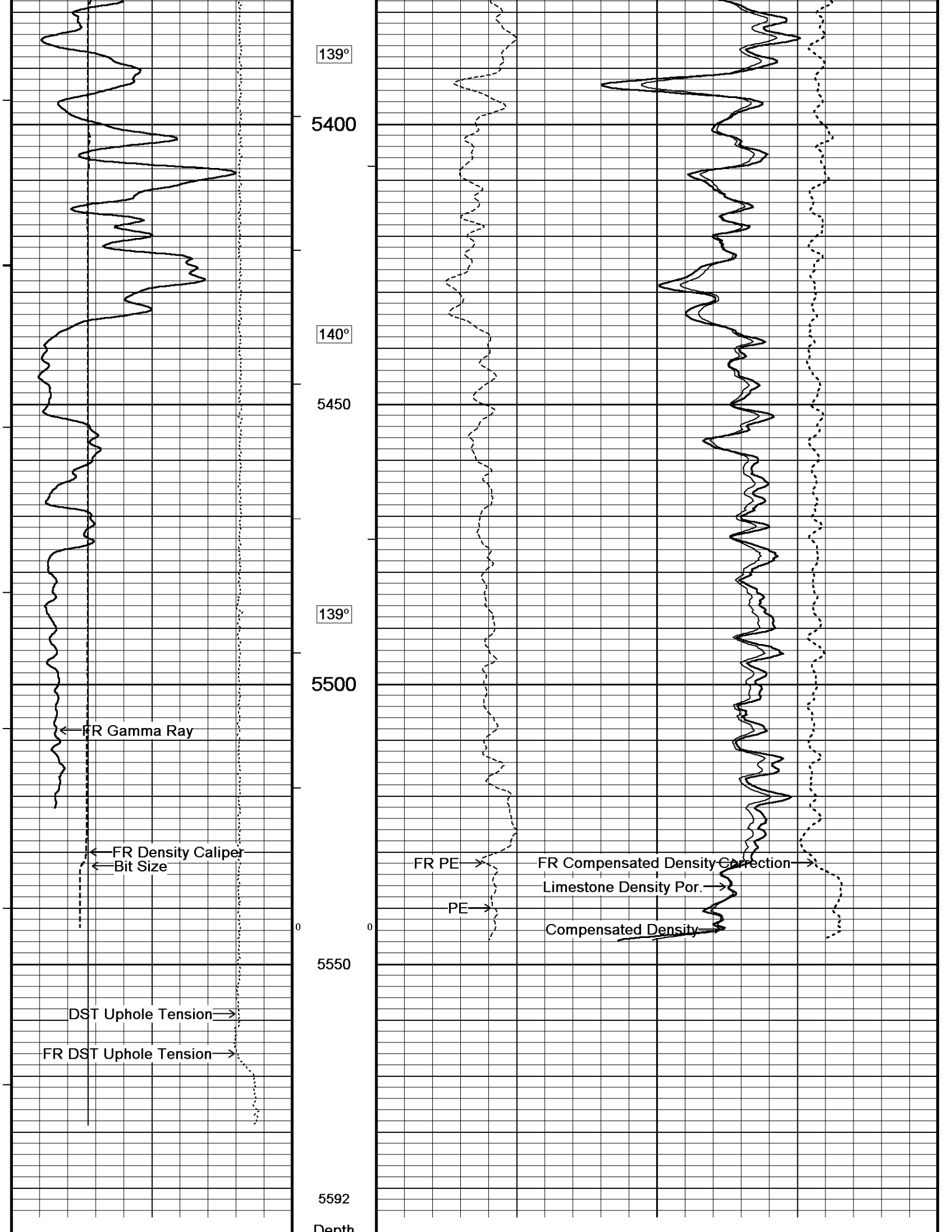

124°
4300
124°
500
4350
Bit Size
Limestone Density Por.
PE
Compensated Density
Density Correction
Density Caliper
Gamma Ray
DST Uphole Tension
125°
4400
125°
4450
125°

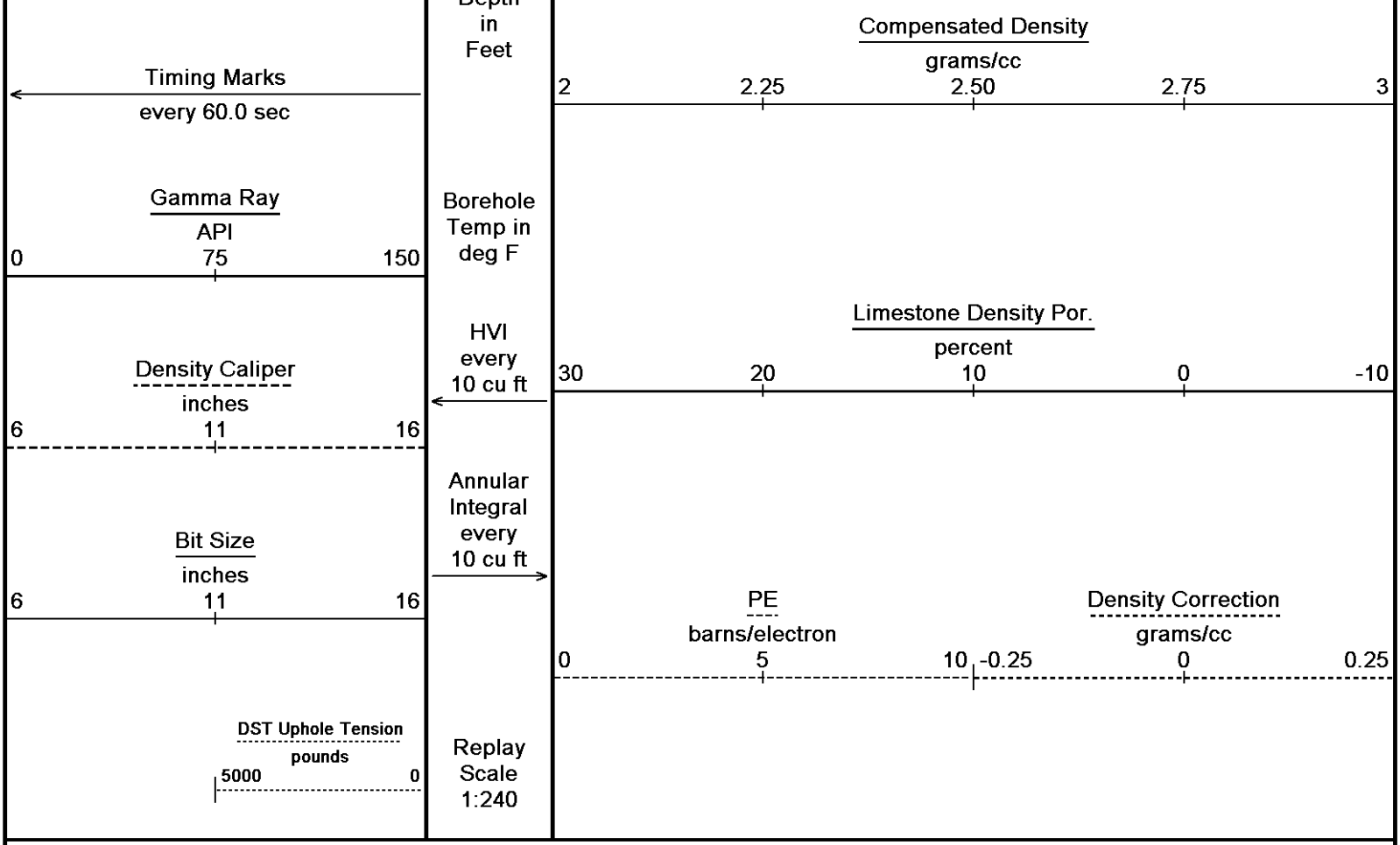

4500
126°
4550
400
126°
4600
127°
4650
128°
4700


Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
Limestone Density Por.
PE
Compensated Density
Density Correction
128°
4750
130°
4800
300
131°
4850
100
131°
4900
132°


4950
133°
5000
133°
5050
200
134°
5100
135°
5150
Bit Size
Density Caliper
PE
Limestone Density Por.
Compensated Density
Density Correction


Density Caliper
Gamma Ray
DST Uphole Tension
136°
5200
137°
5250
138°
5300
100
139°
5350


139°
5400
140°
5450
139°
5500
FR Gamma Ray
FR Density Caliper
Bit Size
0
0
5550
DST Uphole Tension
FR DST Uphole Tension
FR PE
PE
FR Compensated Density Correction
Limestone Density Por.
Compensated Density
5592
Depth

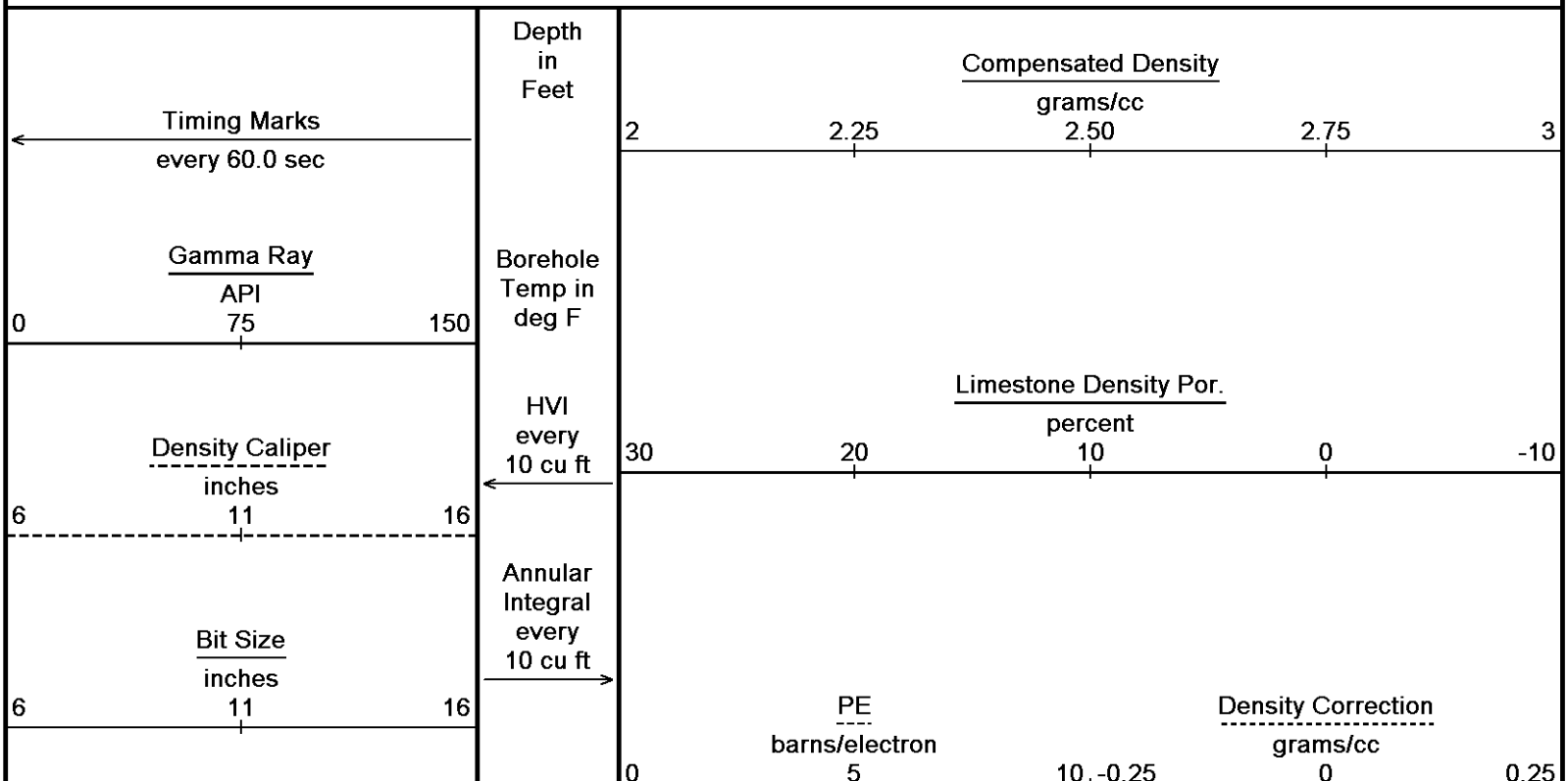


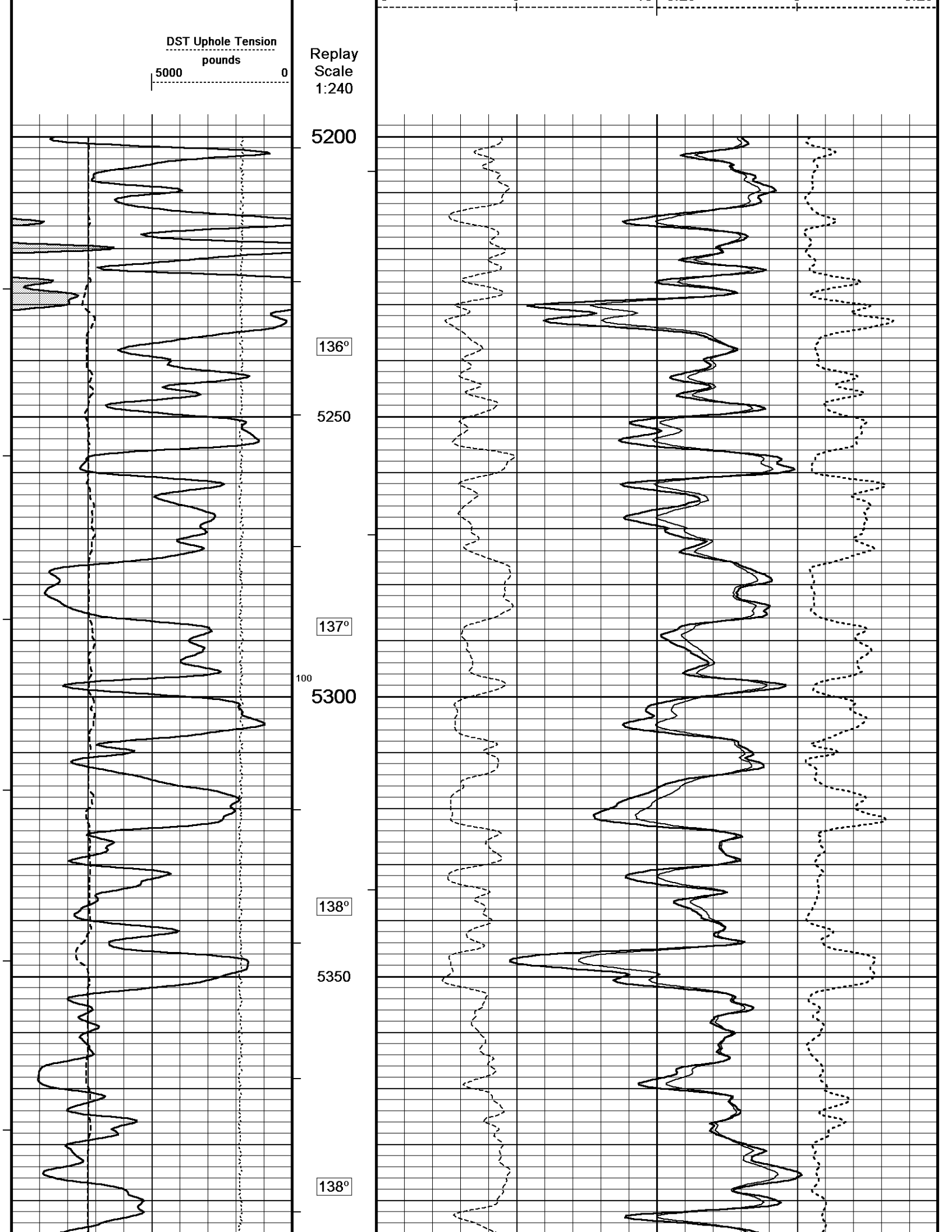
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 05-JUL-2011 19:07
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta
Recorded on 05-JUL-2011 16:55
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

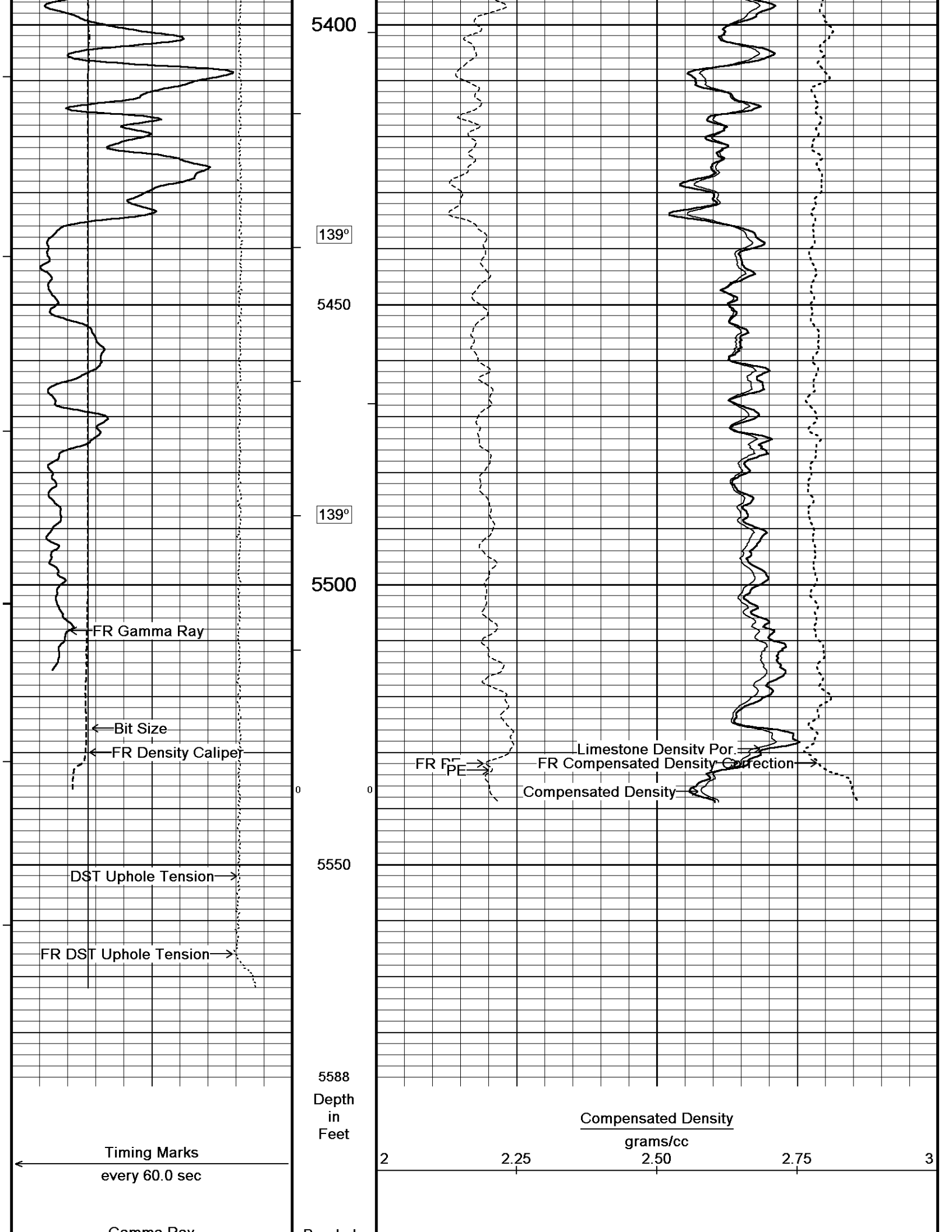
5 INCH MAIN PASS

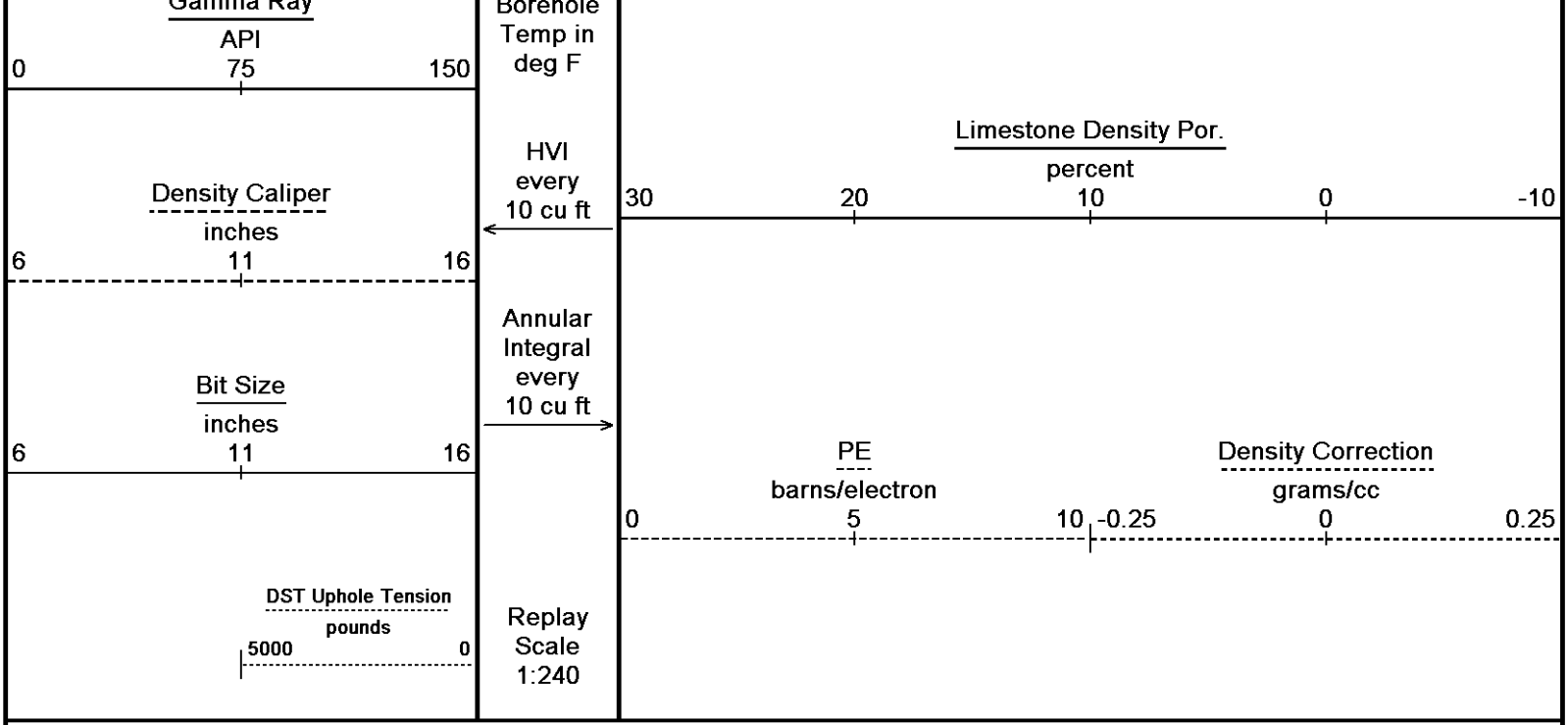
5 INCH REPEAT PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 05-JUL-2011 19:07
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_003.dta
Recorded on 05-JUL-2011 16:18
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186




DST Uphole Tension
pounds
5000
0
Replay
Scale
1:240
5200
136°
5250
137°
100
5300
138°
5350
138°


5400
139°
5450
139°
5500
FR Gamma Ray
Bit Size
FR Density Caliper
0
0
5550
DST Uphole Tension
FR DST Uphole Tension
5588
Depth
in
Feet
Timing Marks
every 60.0 sec
Limestone Density Por
FR Compensated Density Correction
PE
Compensated Density
Compensated Density
grams/cc
2
2.25
2.50
2.75
3



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 05-JUL-2011 19:07

Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_003.dta — Recorded on 05-JUL-2011 16:18

System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

5 INCH REPEAT PASS

BEFORE SURVEY CALIBRATION

C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta

General Constants All 000

Last Edited on 05-JUL-2011,10:26

General Parameters		
Mud Resistivity	1.370	ohm-metres
Mud Resistivity Temperature	84.000	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	7.000	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

Field Calibration on 05-JUN-2011 04:37

Reading No	Measured	Calibrated (lbs)
1	13499.89	0.00
2	14983.70	496.00

High Resolution Temperature Calibration MCG-B 34

Field Calibration on 05-MAR-2011,23:56

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

High Resolution Temperature Constants MCG-B 34

Last Edited on

Pre-filter Length	11

SP Calibration MCG-B 34

Field Calibration on 20-APR-2011 14:53

	Measured	Calibrated (mV)
Reference 1	106.7	100.0
Reference 2	-95.0	-100.0

Gamma Calibration MCG-B 34

Field Calibration on 04-JUL-2011 17:52

	Measured	Calibrated (API)
Background	68	48
Calibrator (Gross)	1100	773
Calibrator (Net)	1033	725

Gamma Constants MCG-B 34

Last Edited on 05-JUL-2011,10:27

Gamma Calibrator Number	grc38	
Mud Density	1.09	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Micro Normal and Micro Inverse Calibration MML-A 4

Base Calibration on 16-MAY-2011 09:23
Field Check on 04-JUL-2011 17:17

Base Calibration

	Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.1	60.1	2.6	12.8
Micro Inverse	15.6	78.3	1.7	8.4

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	32.2	32.2
Micro Inverse	16.3	16.3

Micro Normal and Micro Inverse Constants MML-A 4

Last Edited on 05-JUL-2011,10:27

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159	
Micro Normal K Factor	0.5110	
Micro Inverse K Factor	0.3380	
Standoff Offset	N/A	inches

Caliper Calibration MML-A 4

Base Calibration on 16-MAY-2011 09:38
Field Calibration on 04-JUL-2011 17:54

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14953	5.98
2	18280	7.97
3	21656	9.86
4	25588	11.92
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.10	5.98

Neutron Calibration MDN-A.B 65

Base Calibration on 02-JUL-2011 23:27
Field Check on 04-JUL-2011 18:14

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3269	103	3714	110
Ratio	31.795		33.764	

Field Calibrator at Base	Calibrated (cps)	
	1562	2227
Ratio	0.701	

Field Check	Calibrated (cps)	
	1585	2221
Ratio	0.714	

Neutron Constants MDN-A.B 65

Last Edited on 05-JUL-2011,10:28

Neutron Source Id	757	

Neutron Source Id	757	
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	None	
Formation Pressure	N/A	kpsi
Temperature Source	MCG External Temperature	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
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 21-JUN-2011 10:19
Field Check on 04-JUL-2011 17:15

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	953.6	126.8
Base Check		281.3
Field Check		281.3

FE Constants MFE-A.A 55

Last Edited on 05-JUL-2011,10:28

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

Sonic Constants MSS-A.A 126

Last Edited on 05-JUL-2011,10:29

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 Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft
Sonde Mode	Compensated	
Hole Type	Open Hole	

Sonde Parameters

	Measured	Calibrated
Offset	N/A	0.0000
Free Pipe	N/A	N/A

Peak Amplitude Source N/A

Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing N/A
Start Time (micro-sec) End Time (micro-sec) Discriminator (mV) N/A

N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
3' Waveform Filter	N/A	
4' Waveform Filter	N/A	
5' Waveform Filter	N/A	
6' Waveform Filter	N/A	
Semblance Level	N/A	
Semblance Window Width	N/A	micro-sec
Sonic 1 Despiker	N/A	N/A
Sonic 2 Despiker	N/A	N/A

High Resolution Temperature Calibration MAI-A.A 45

Field Calibration on 13-AUG-2010,13:31

	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

Pre-filter Length	11

Induction Calibration MAI-A.A 45

Base Calibration on 13-AUG-2010,13:32
Field Check on 04-JUL-2011 17:13

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	14.5	473.5	9.3	966.2
2	5.2	373.4	7.6	821.4
3	2.8	260.6	5.2	566.0
4	1.6	132.2	2.6	279.2

Array Temperature	86.2	Deg F

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High
1	0.0	0.0	20.2	3846.1
2	0.0	0.0	33.4	3631.8
3	0.0	0.0	30.3	3050.4
4	0.0	0.0	20.6	2093.8
Deep	0.0	0.0	18.2	1920.5
Medium	0.0	0.0	43.5	4051.0
Shallow	0.0	0.0	50.7	5475.8
Array Temperature	0.0		92.2	Deg F

Induction Constants MAI-A.A 45

Last Edited on 05-JUL-2011,10:29

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	

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	

Caliper Calibration MPD-B 65

Base Calibration on 01-JUL-2011 18:46
Field Calibration on 04-JUL-2011 18:03

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13710	3.99
2	22224	5.98
3	30784	7.97
4	39184	9.86
5	48352	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.97	5.98

Photo Density Calibration MPD-B 65

Base Calibration on 02-JUL-2011 22:55
Field Check on 04-JUL-2011 18:02

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	50829	24574	59556	30836
Reference 2	20710	2286	24941	2541

Field Check at Base

1245.3	1199.3

Field Check

1247.3	1189.8

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	226	1107		
Reference 1	19076	50633	0.381	0.371
Reference 2	5565	20564	0.274	0.272

Field Check at Base

225.7	1107.0

Field Check

226.2	1113.9

Density Constants MPD-B 65

Last Edited on 05-JUL-2011,10:28

Density Source Id	254	
Nylon Calibrator Number	695	
Aluminium Calibrator Number	698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.09	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 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.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-B 34 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 4 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

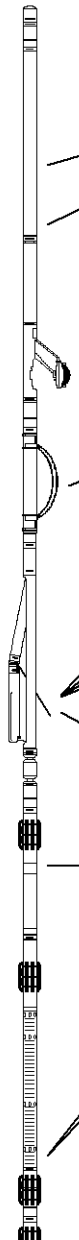
Compact Density/Caliper
MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 37 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Sonic
MSS-A.A 126 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in

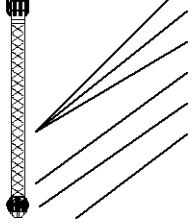
Compact Induction



57.56 ft	GRGC - Gamma Ray
54.65 ft	CGXT - MCG External Temperature
47.93 ft	MINV - Micro-inverse
47.93 ft	MNRL - Micro-normal
48.92 ft	MLTC - MML Caliper
43.13 ft	NPRL - Limestone Neutron Por.
35.89 ft	CLDC - Density Caliper
33.96 ft	DPRL - Limestone Density Por.
33.96 ft	DEN - Compensated Density
33.96 ft	DCOR - Density Correction
33.90 ft	PDPE - PE
26.24 ft	FEFE - Shallow FE
12.96 ft	DT35 - 3-5' Compensated Sonic
12.96 ft	SPRL - Wyllie Lime. Sonic Por.
3.34 ft	R40O - Array Ind. One Res 40

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

Total Length: 64.42 ft Weight: 496.0 lb



3.34 ft	RTAO - Array Ind. One Res Rt
3.34 ft	R60O - Array Ind. One Res 60
0.23 ft	SPCG - Spontaneous Potential
Tool Zero	(0.13ft from bottom)
-0.13 ft	SMTU - DST Uphole Tension

All measurements relative to tool zero.

COMPANY	OXY USA, INC.
WELL	ELIZABETH A. COX #6
FIELD	VICTORY
PROVINCE/COUNTY	HASKELL
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2979.00	feet	First Reading	553.00	feet
Elevation Drill Floor	2977.00	feet	Depth Driller	5560.00	feet
Elevation Ground Level	2968.00	feet	Depth Logger	5566.00	feet

Weatherford®

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