

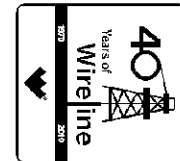


Weatherford

COMPENSATED SONIC

LOG

COMPANY **SHORELINE ENERGY PARTNERS, LLC.**
 WELL **SEIFERT 1-27**
 FIELD **WILDCAT**
 PROVINCE/COUNTY **HARPER**
 COUNTRY/STATE **U.S.A. / KANSAS**
 LOCATION **115' FNL & 150' FWL**



SEC 27 TWP 34S RGE 5W Other Services MFE/MAI MPD/MDN MML
 API Number 15-077-21753
 Permit Number
 Permanent Datum G.L., Elevation 1206 feet
 Log Measured From K.B. @ 10 FEET above Permanent Datum
 Drilling Measured From K.B.

Elevations: feet
 KB 1216.00
 DF 1214.00
 GL 1206.00

Date	28-SEP-2011
Run Number	ONE
Depth Driller	5355.00 feet
Depth Logger	5352.00 feet
First Reading	5339.00 feet
Last Reading	348.00 feet
Casing Driller	350.00 feet
Casing Logger	348.00 feet
Bit Size	7.875 inches
Hole Fluid Type	GEL
Density / Viscosity	9.00 lb/USg 67.00 CP
PH / Fluid Loss	9.00 13.80 ml/30Min
Sample Source	MUD PIT
Rm @ Measured Temp	1.50 @ 82.0 ohm-m
Rmf @ Measured Temp	1.20 @ 82.0 ohm-m
Rmc @ Measured Temp	1.80 @ 82.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.89 @ 137.0 ohm-m
Time Since Circulation	6 HOURS
Max Recorded Temp	137.00 deg F
Equipment Name	COMPACT
Equipment / Base	13226 OKC
Recorded By	B. ALLEN
Witnessed By	C. PARKER

BOREHOLE RECORD Last Edited: 28-SEP-2011 18:33

Bit Size inches 7.875	Depth From feet 350.00	Depth To feet 5355.00
-----------------------------	------------------------------	-----------------------------

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	350.00	29.00

REMARKS

TOOLS RAN: SHA, MCG, MML, MDN, MPD, MFE, MAI RAN IN COMBINATION

HARDWARE: MAI: TWO 0.5 INCH STANDOFFS USED.
 MDN: DUAL NEUTRON BOW SPRINGS USED.
 MPD: 8 INCH PROFILE PLATE USED.

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY
 ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TOTAL HOLE VOLUME FROM TD TO 3300' = 950 CU.FT.
 ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 3300' = 610 CU.FT.

SERVICE ORDER # 3534146
 RIG: LANDMARK DRILLING #6

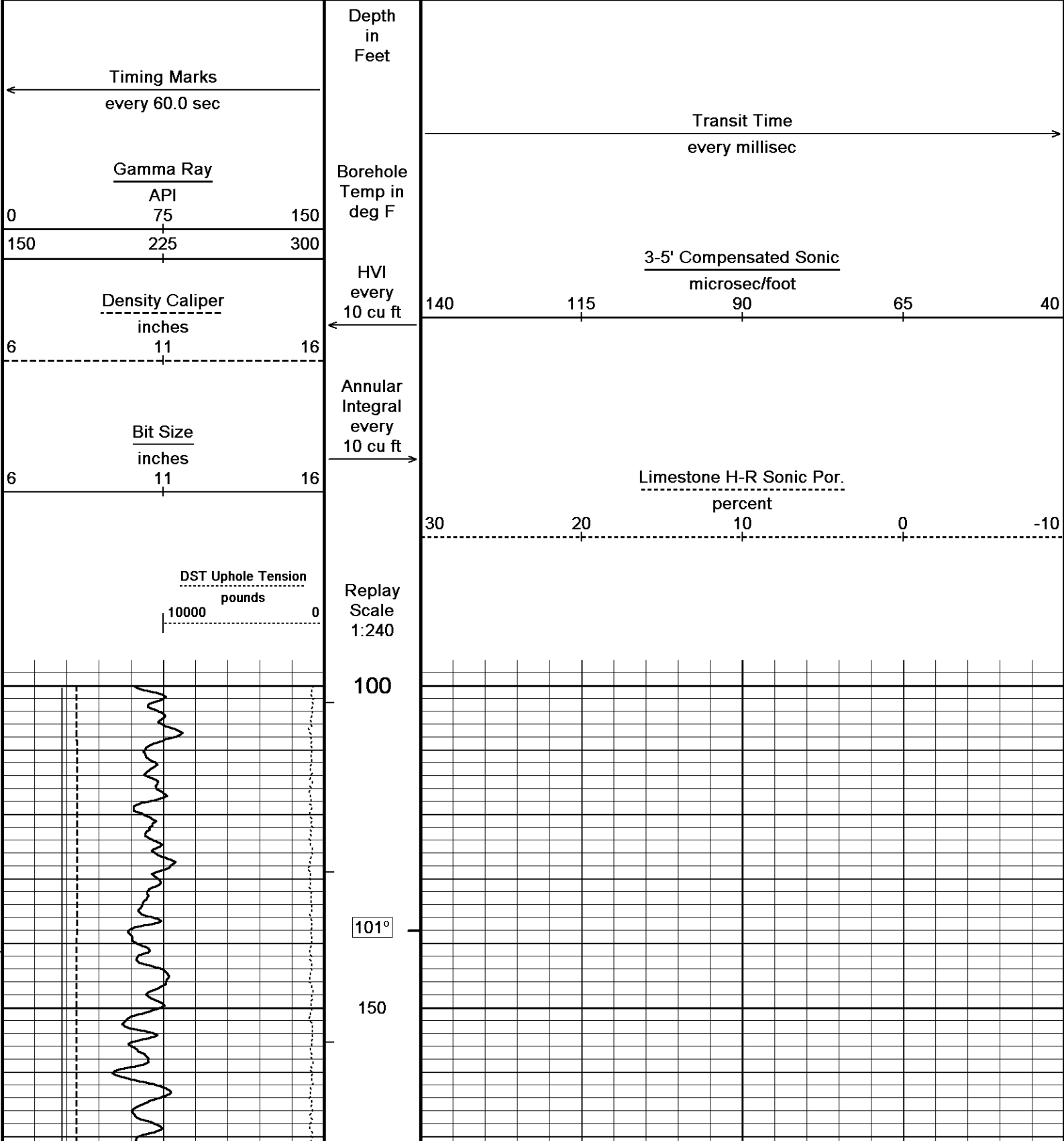
ENGINEER: B. ALLEN

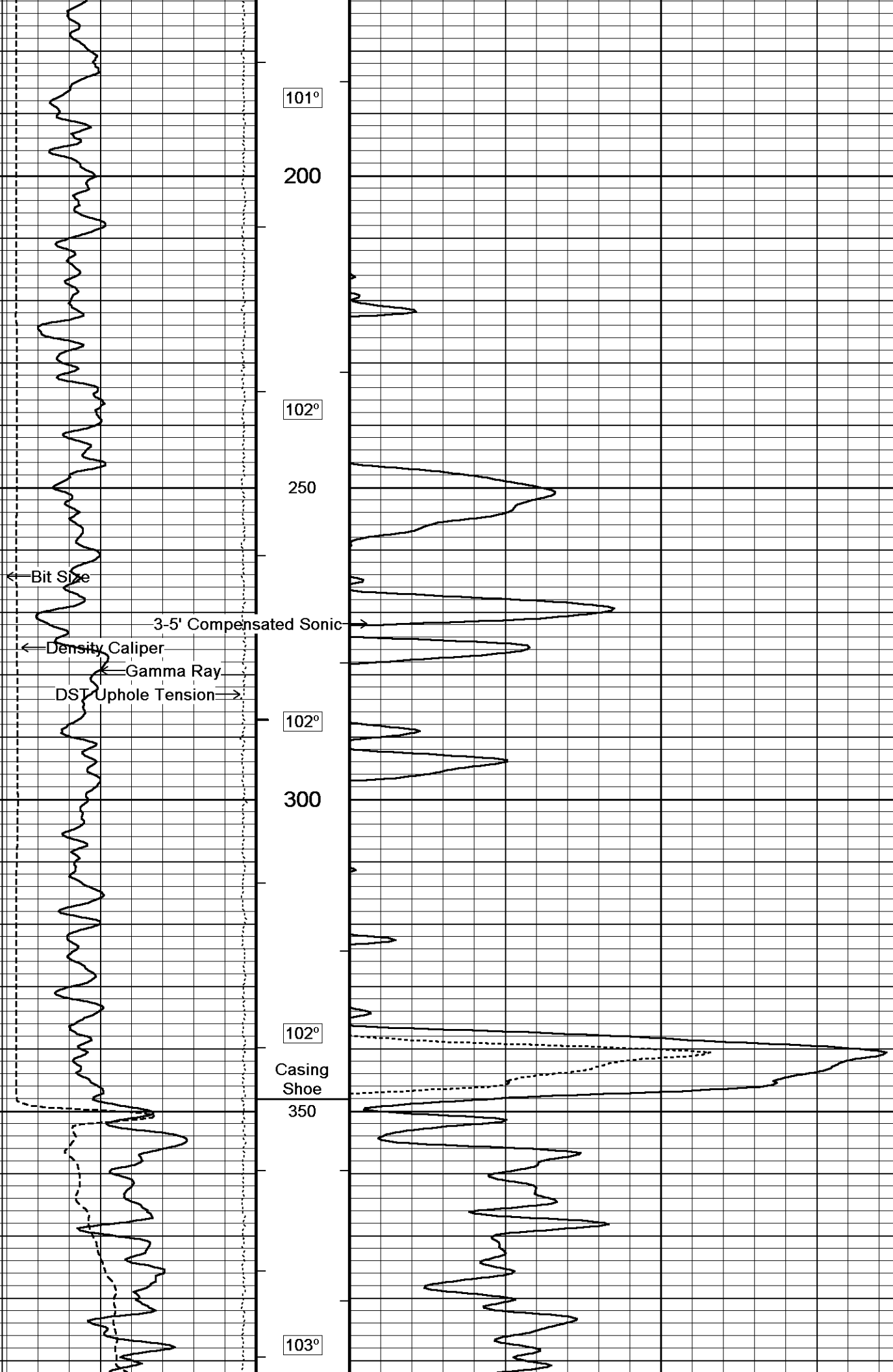
OPERATOR(S): R. POGUE

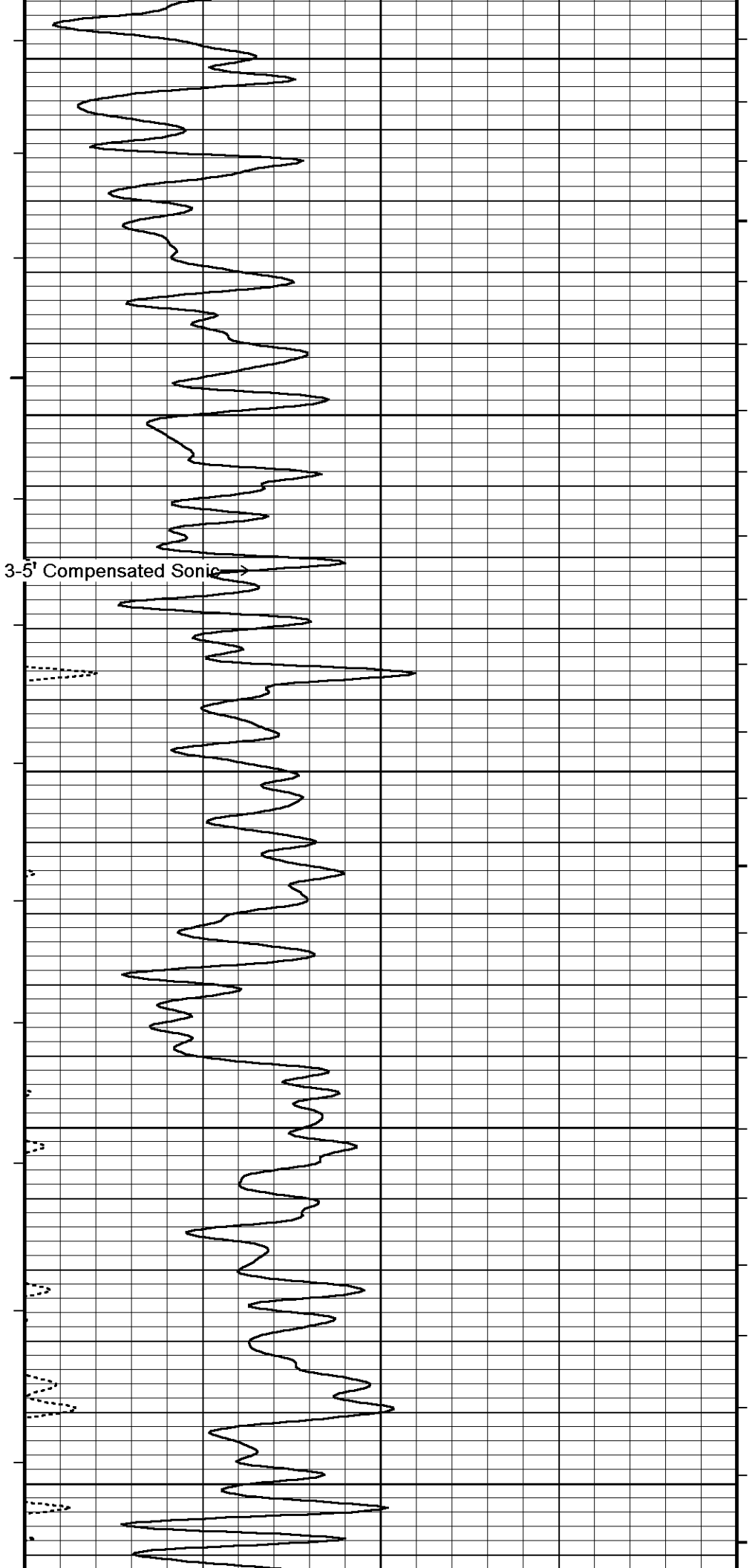
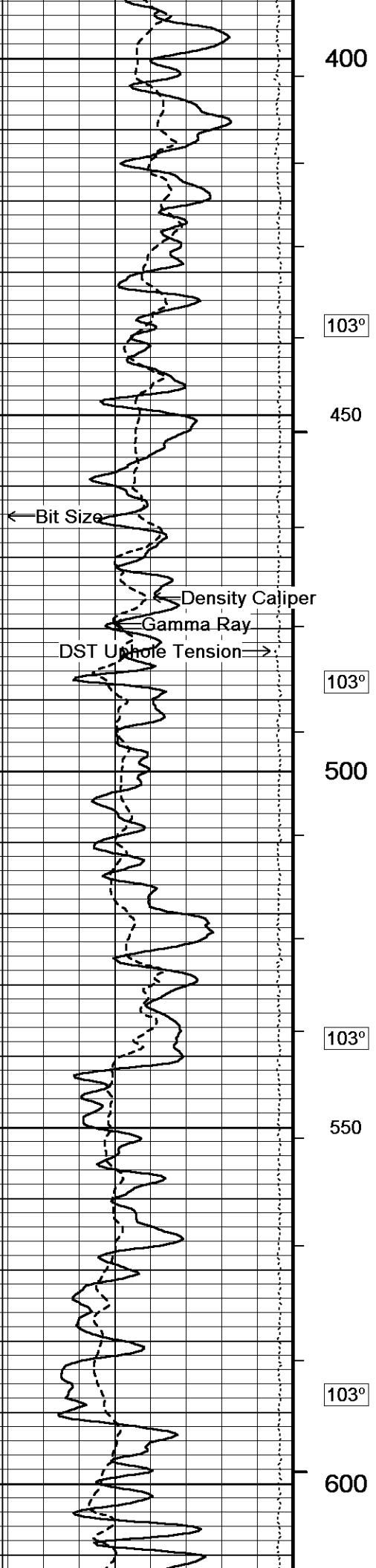
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

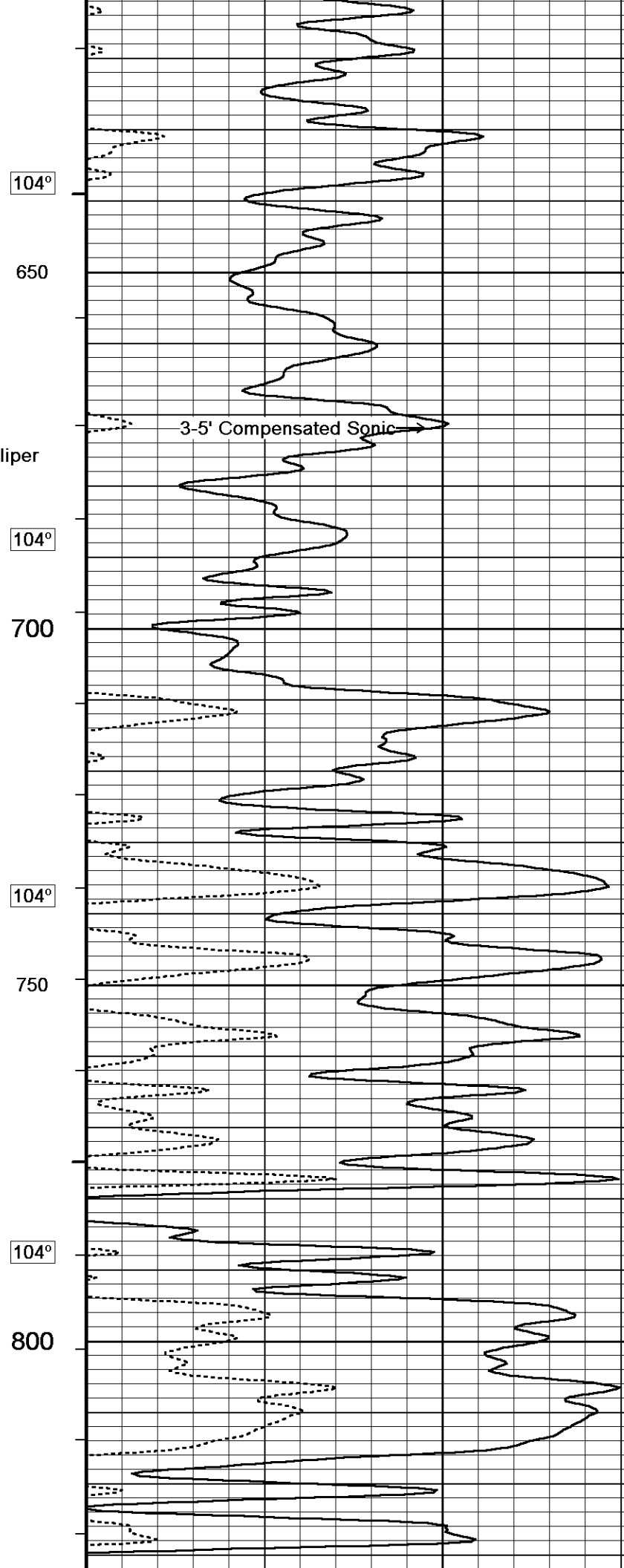
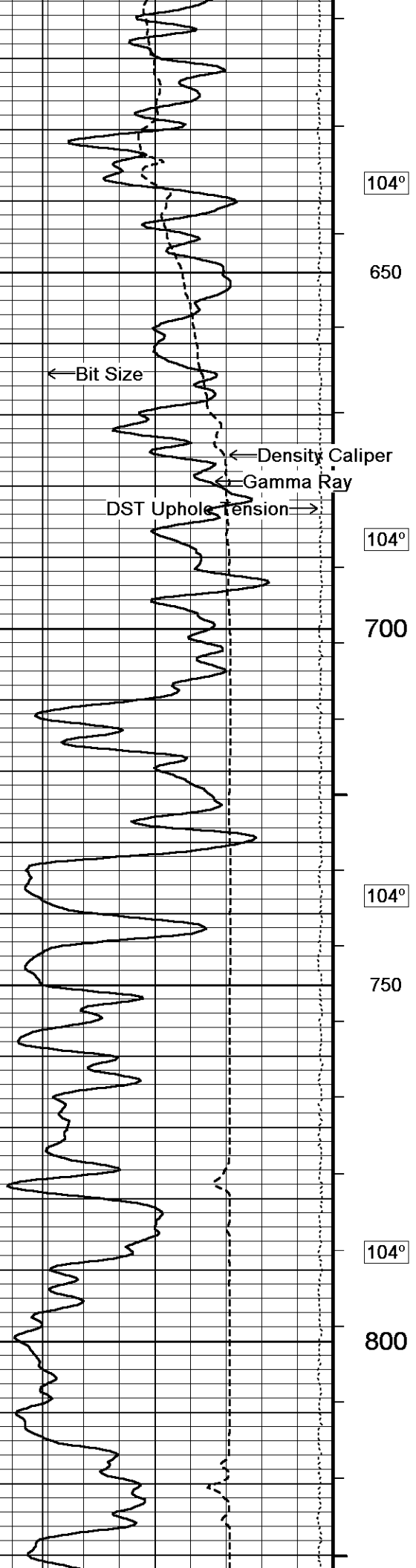
5 INCH MAIN LOG

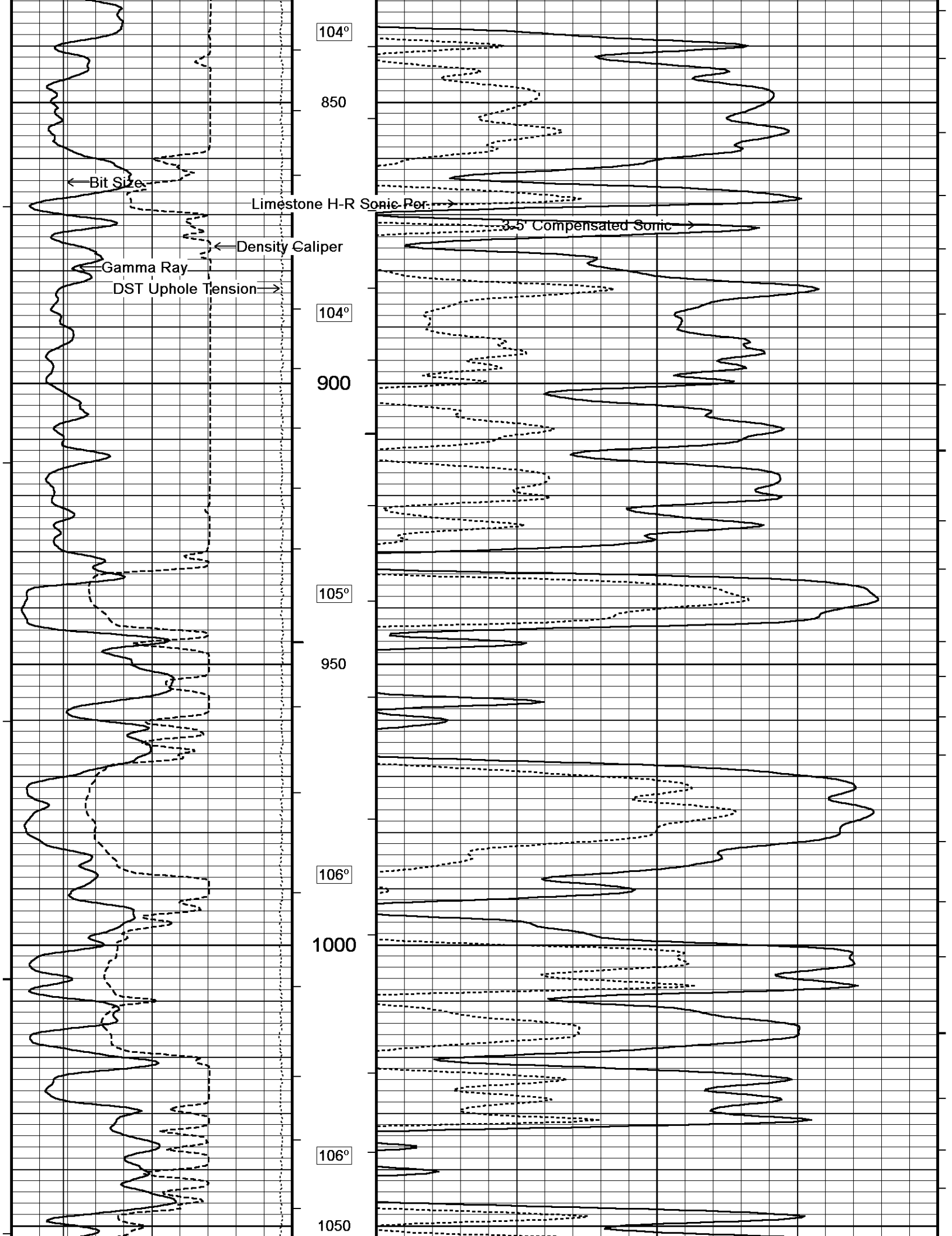
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-SEP-2011 08:14
 Filename: C:\Users\garciar\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27_003.dta Recorded on 28-SEP-2011 18:24
 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513

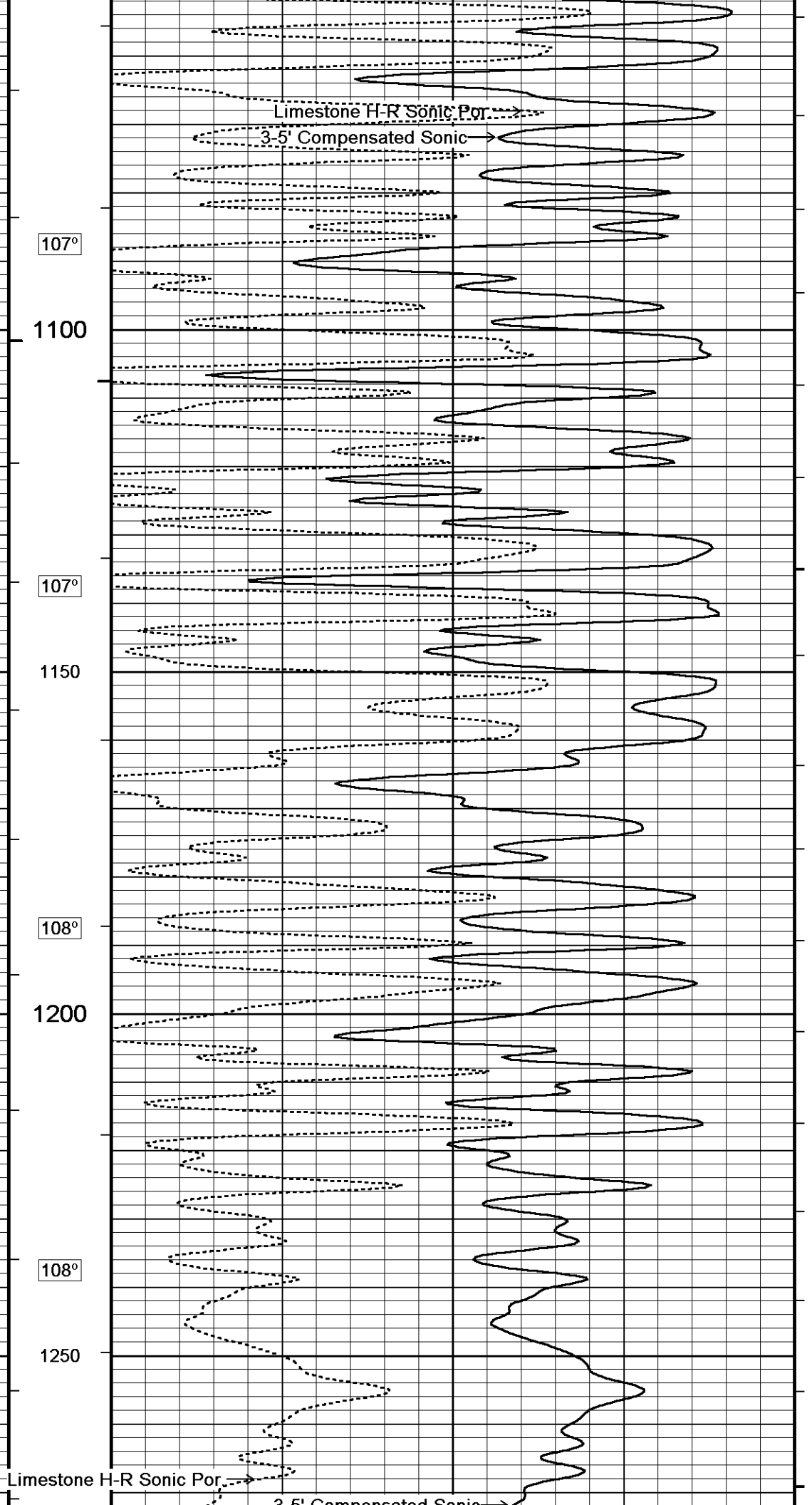


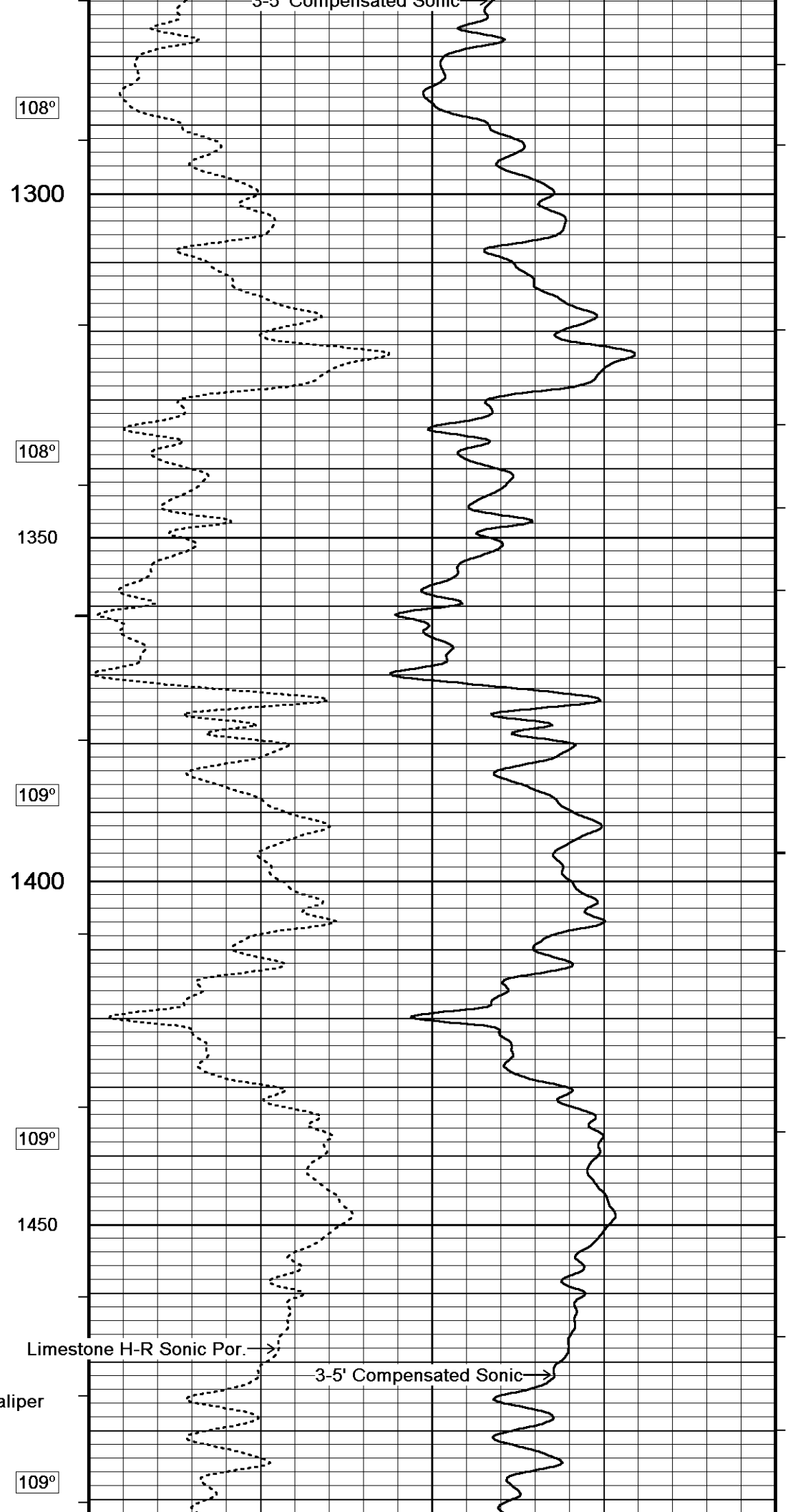
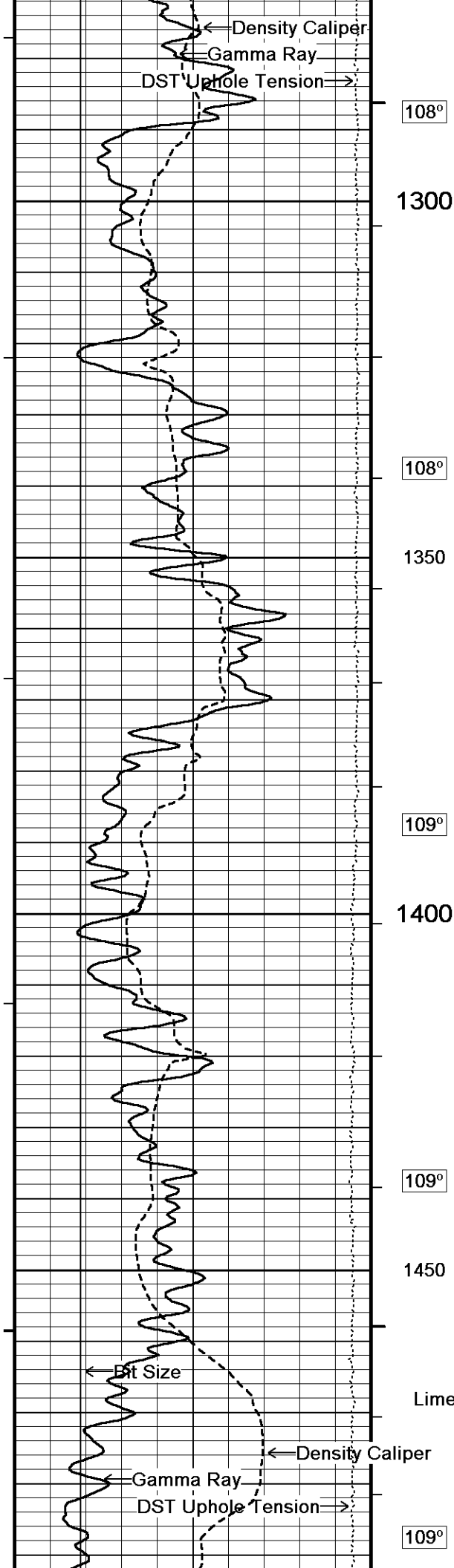


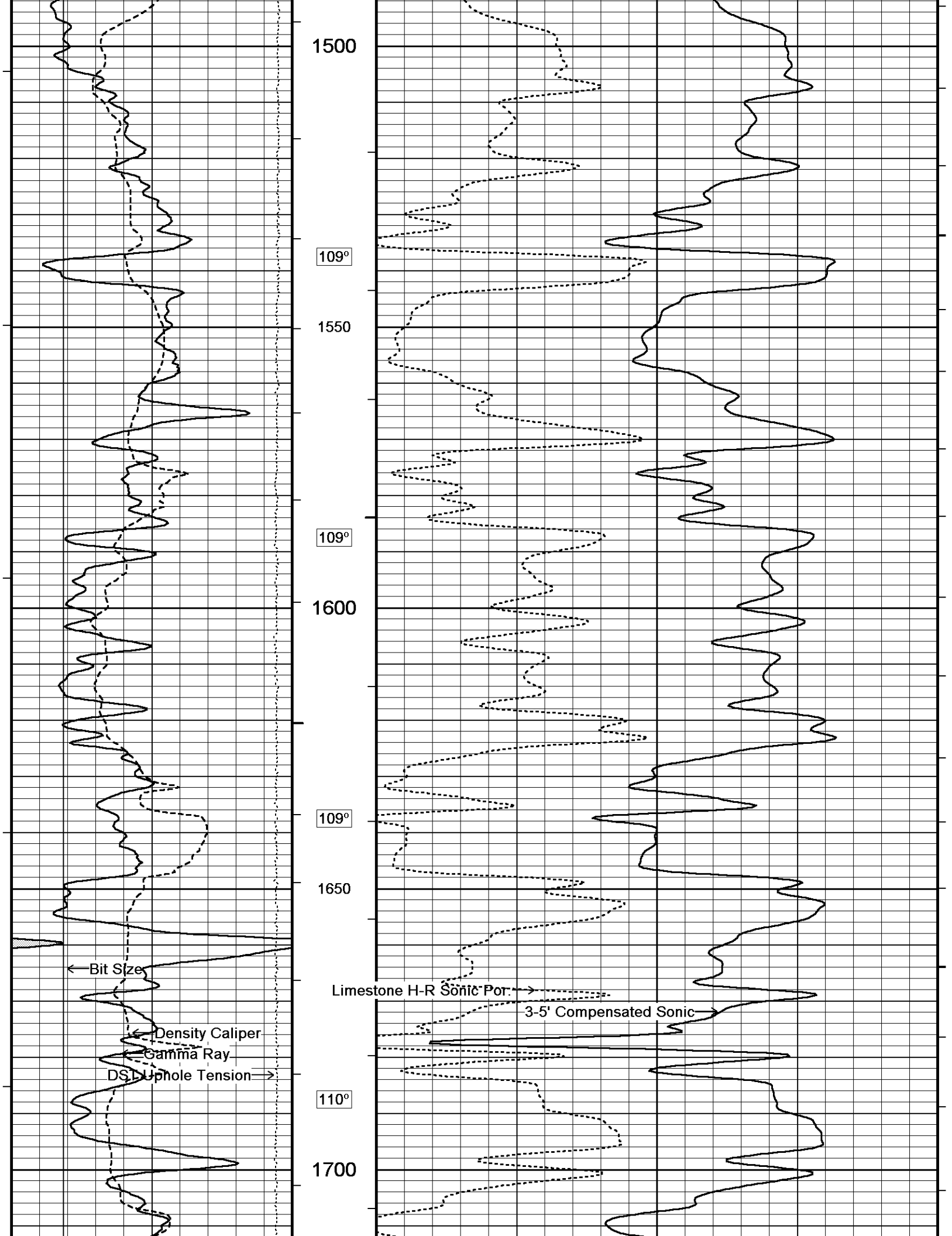


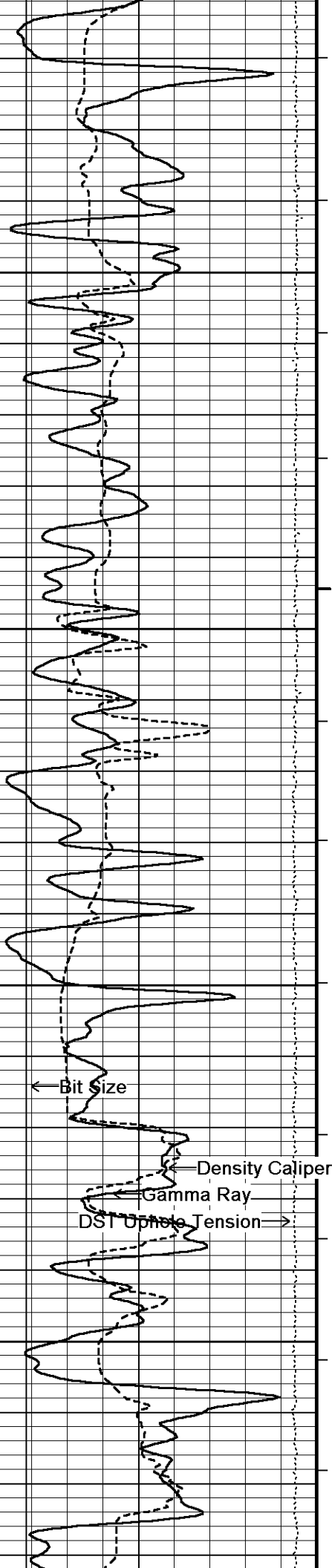












110°

1750

110°

1800

111°

1850

112°

1900

← Bit Size

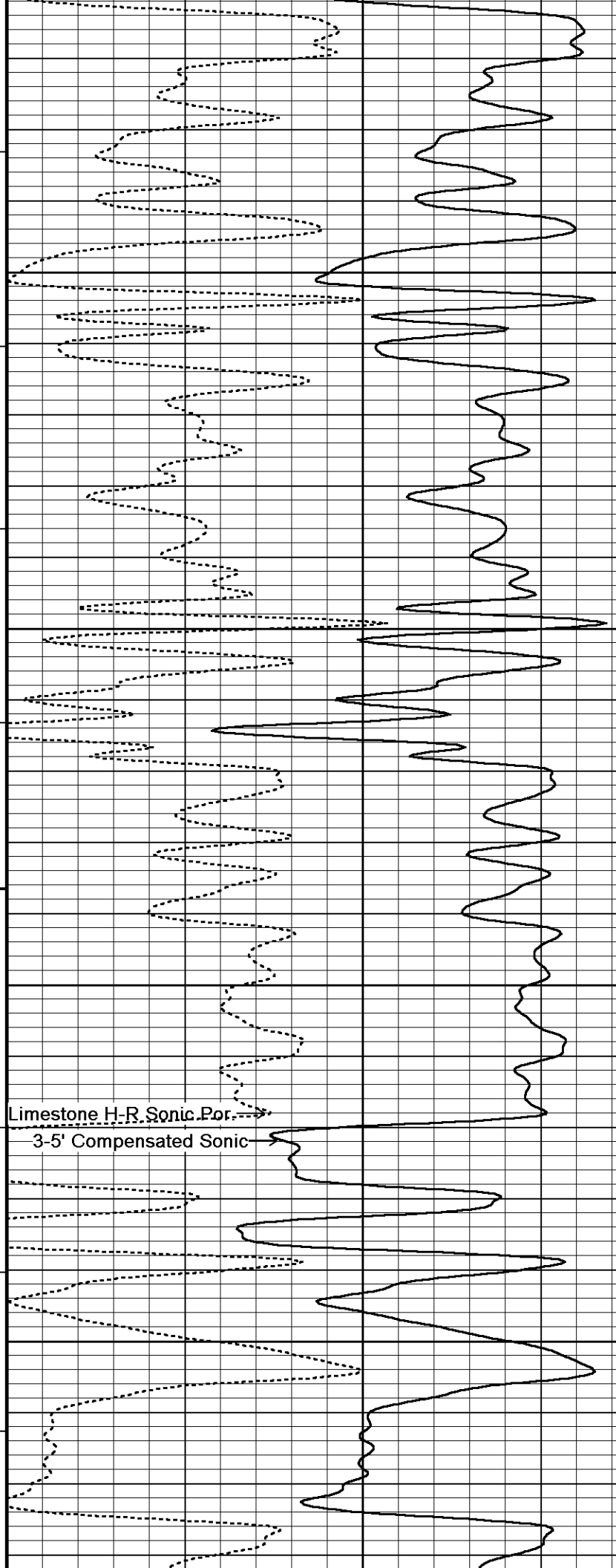
← Density Caliper

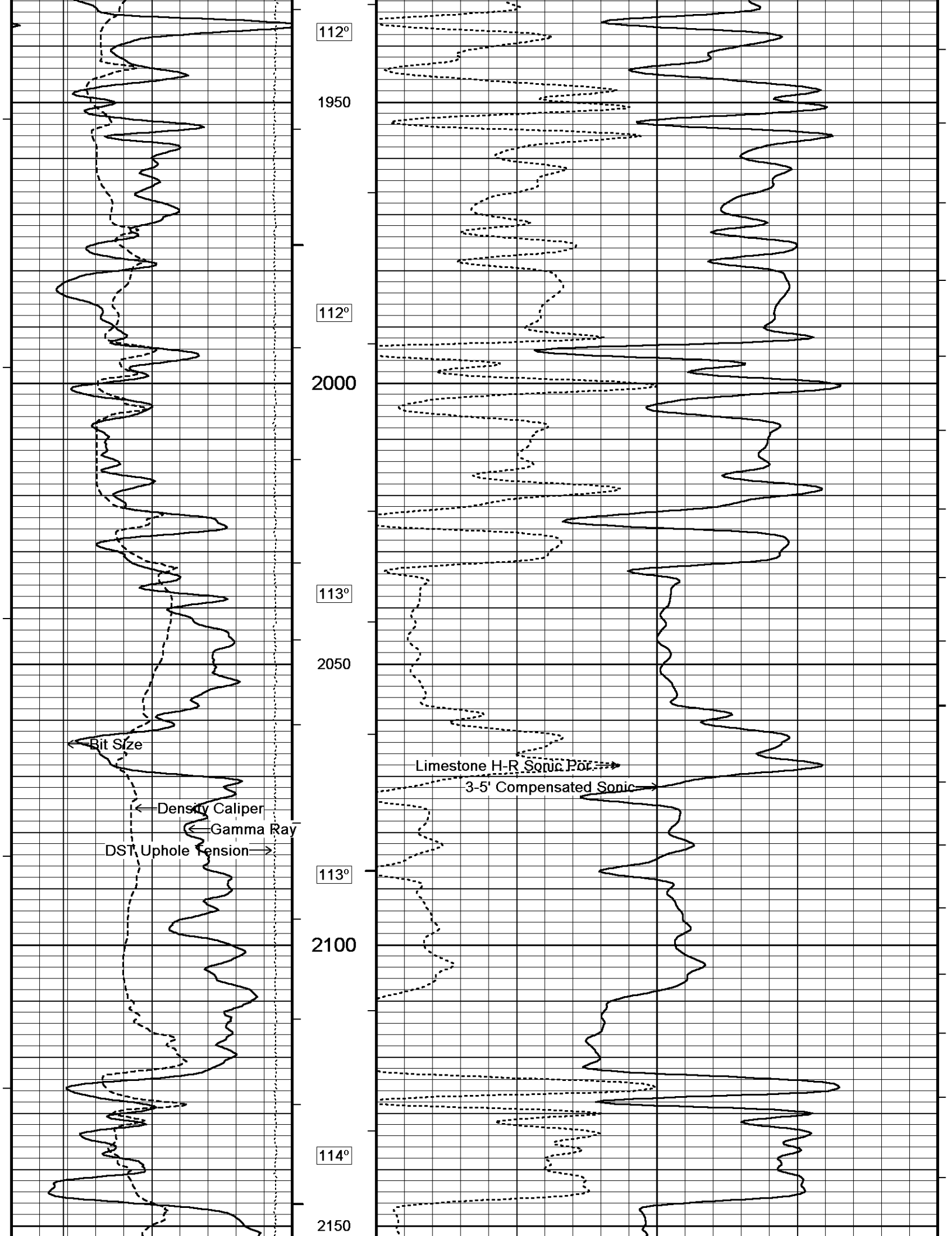
← Gamma Ray

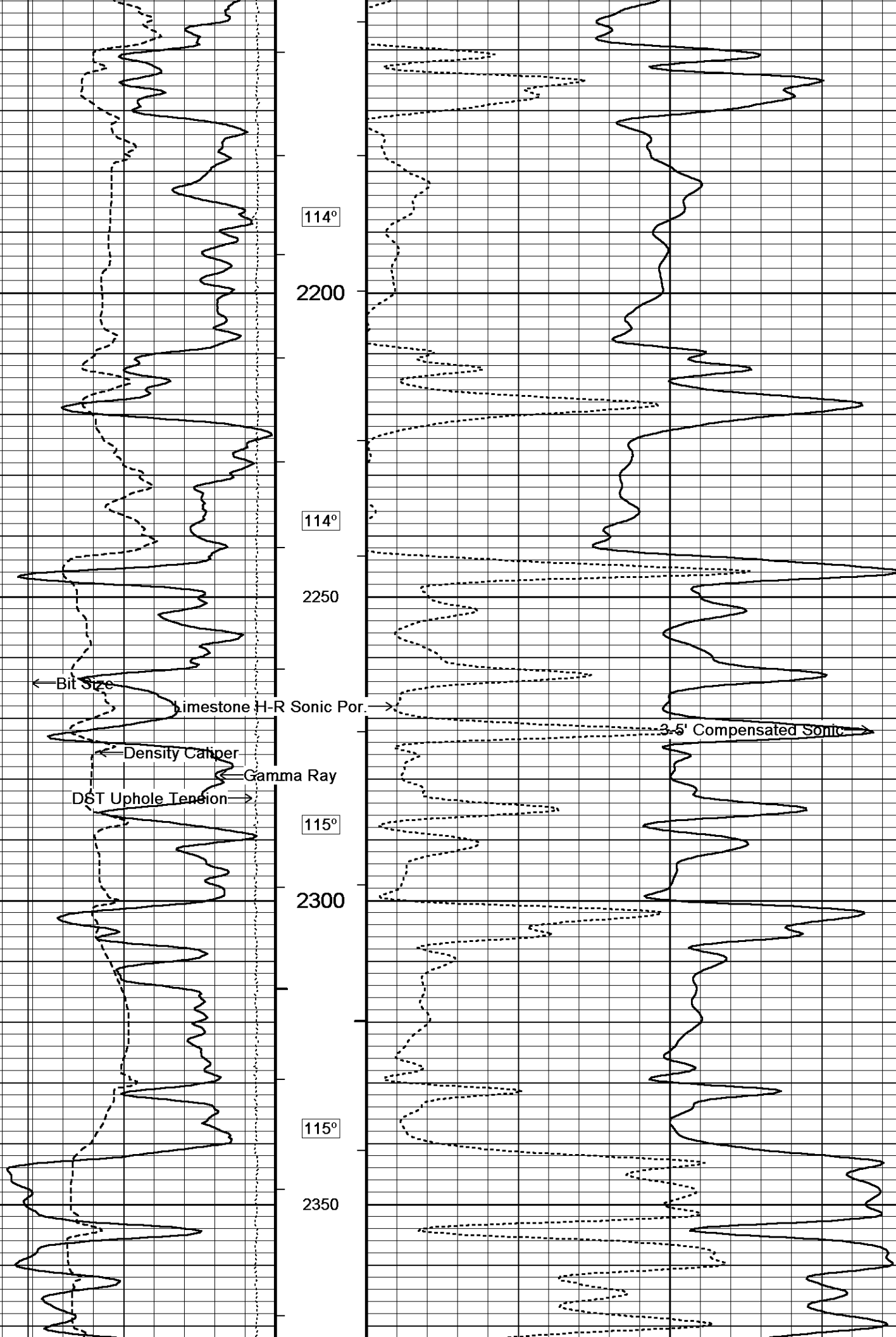
DST Uphole Tension →

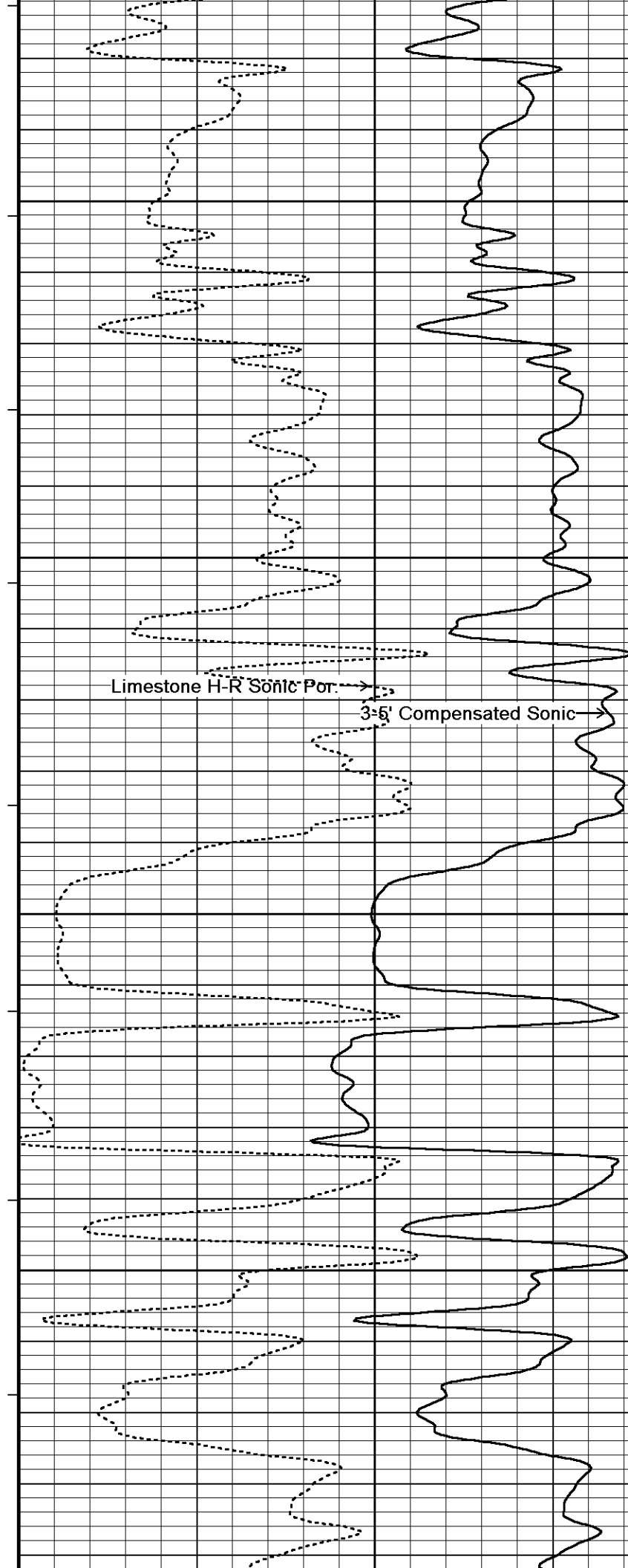
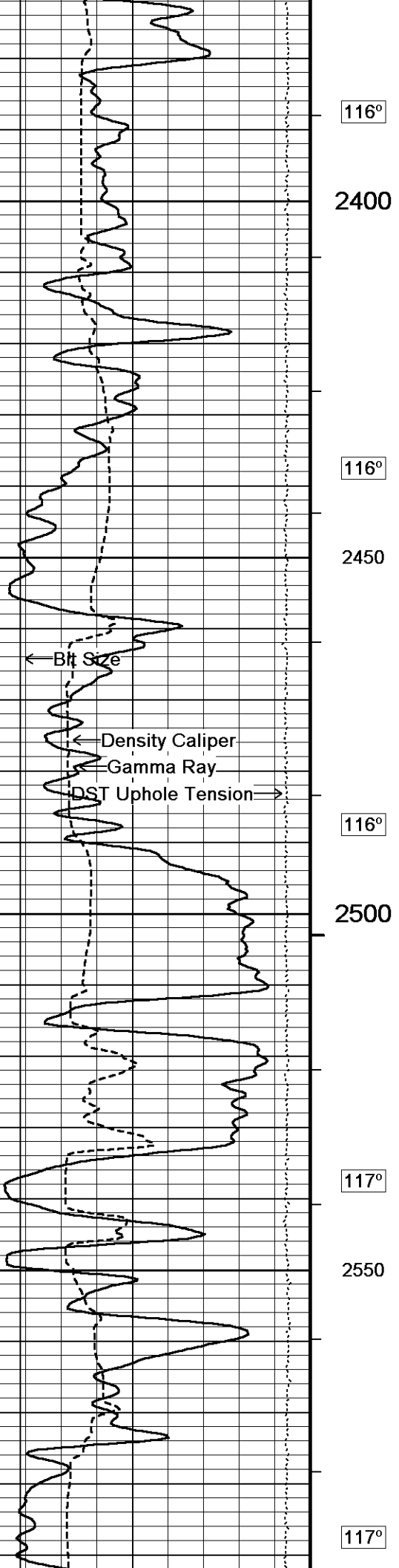
Limestone H-R Sonic Por. →

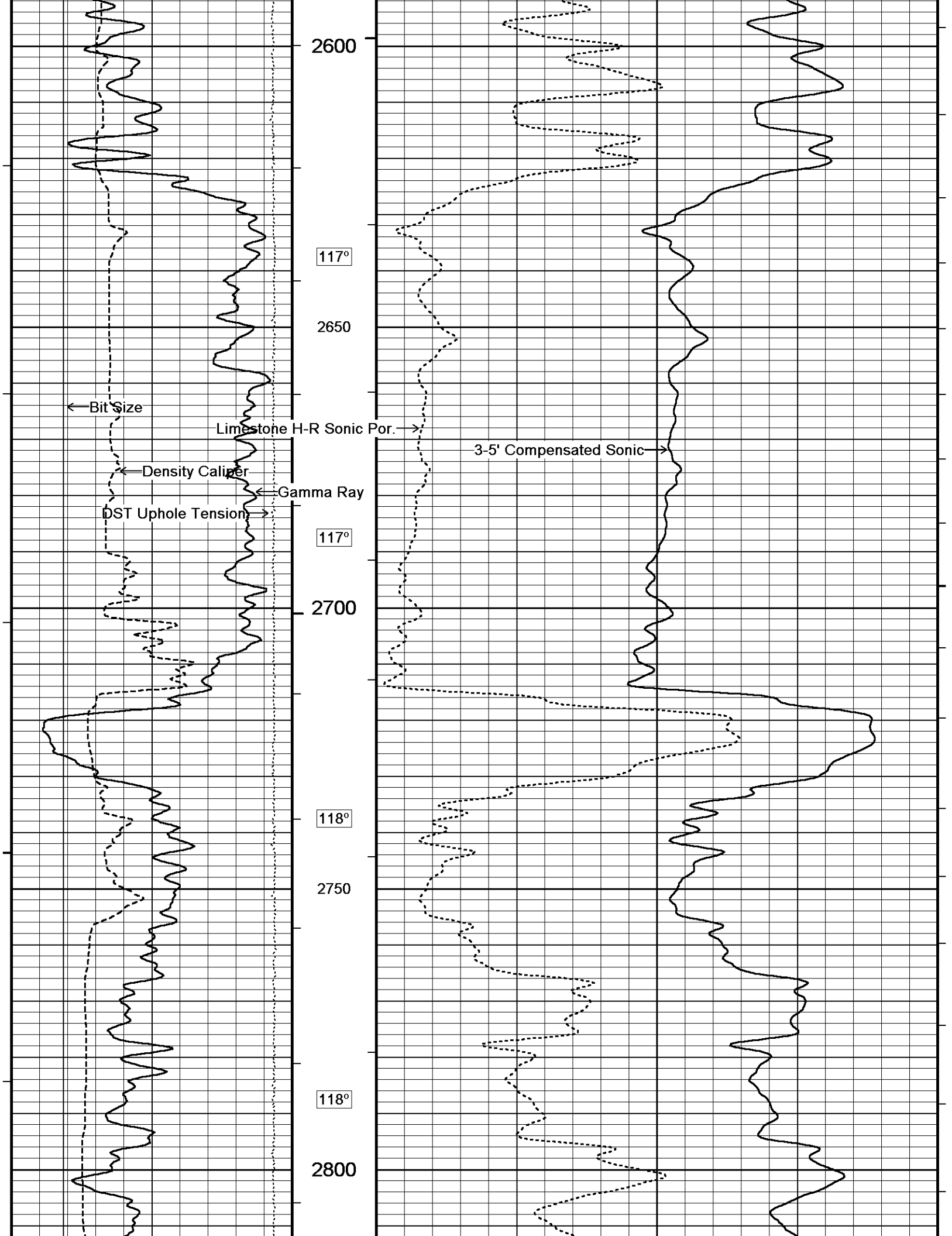
3-5' Compensated Sonic →

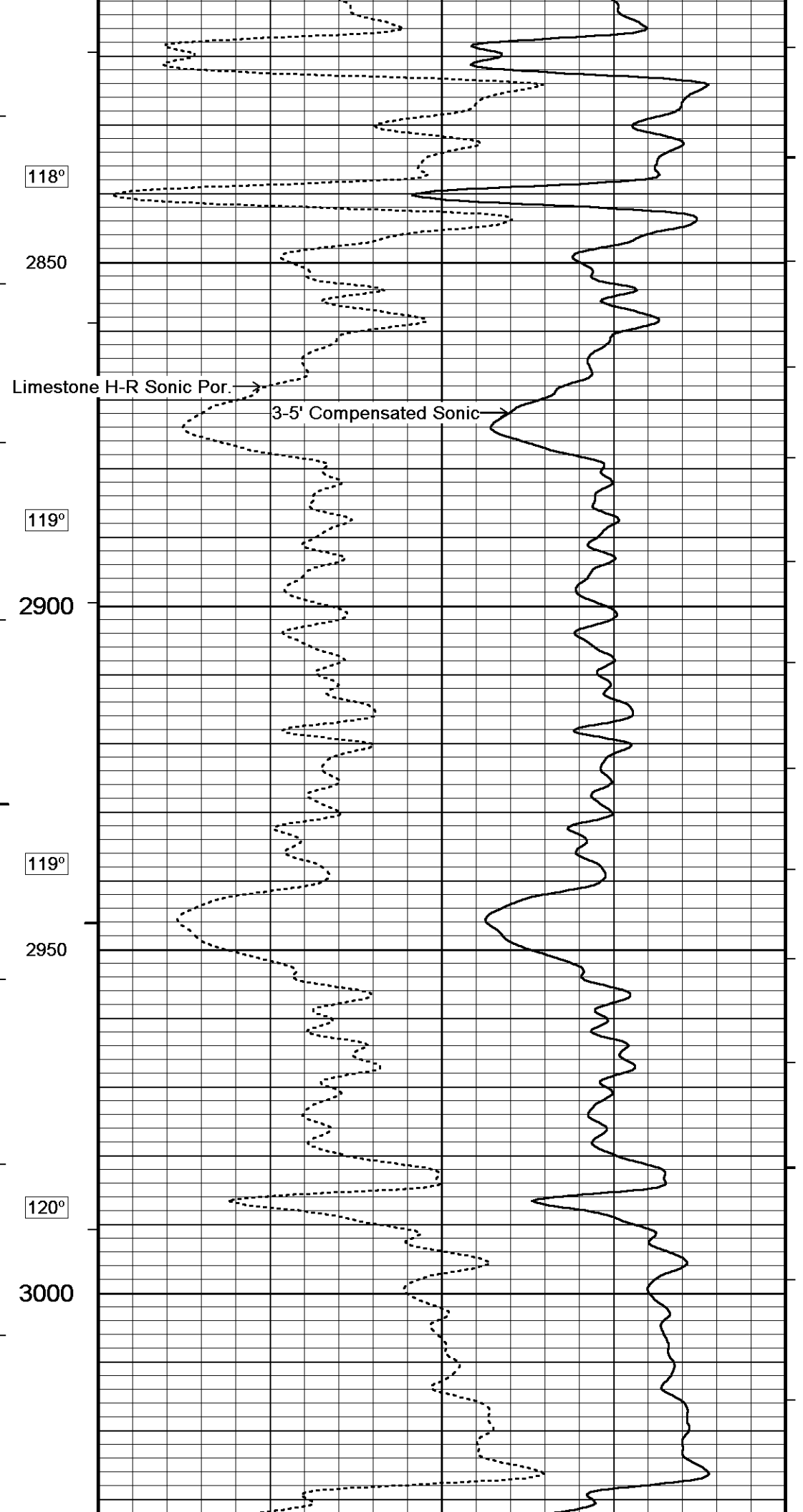
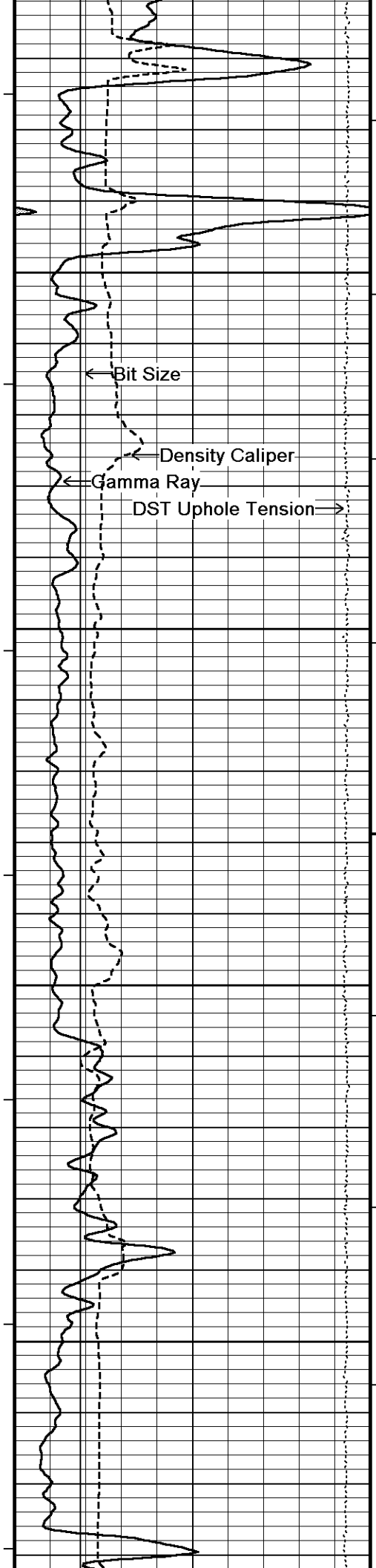


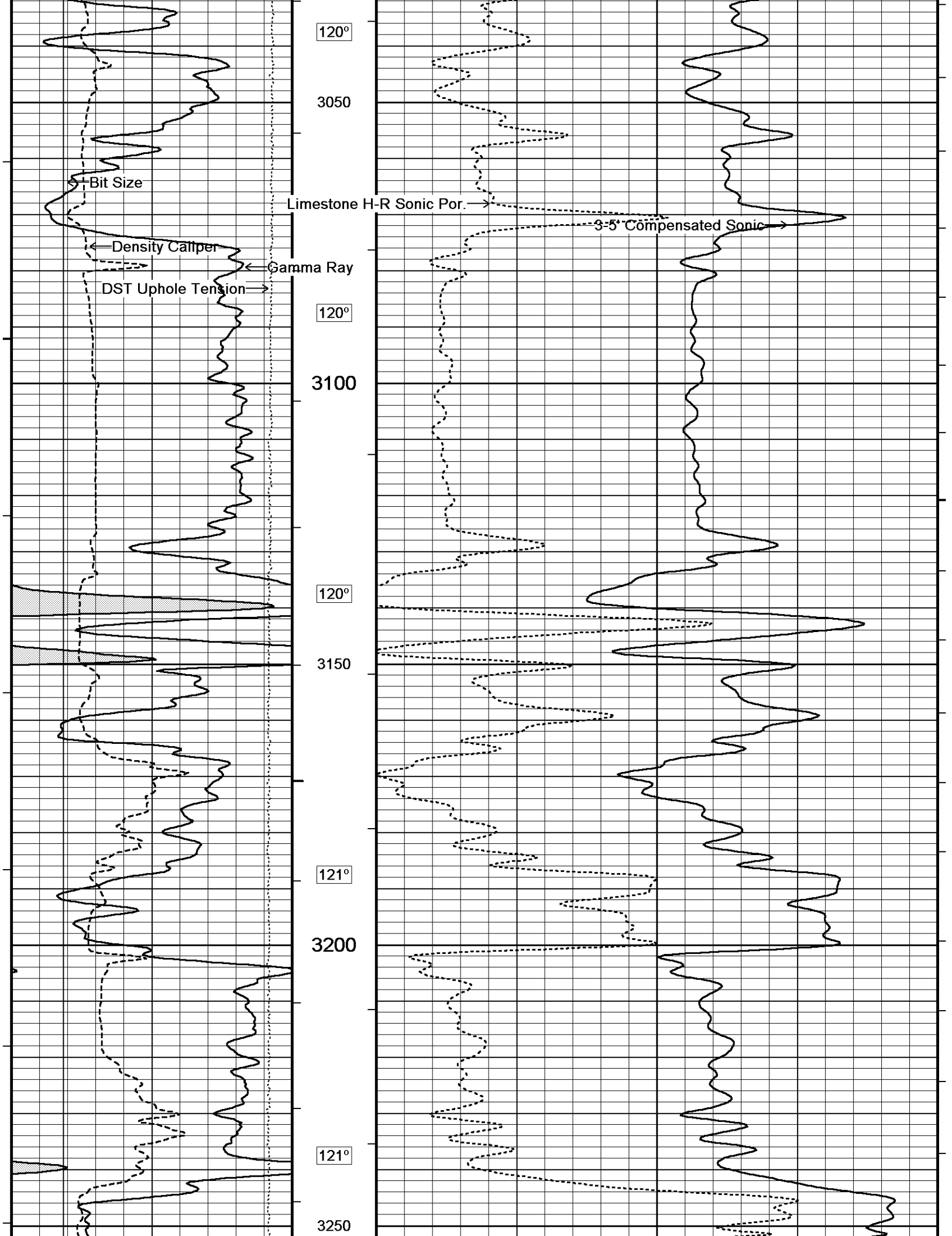


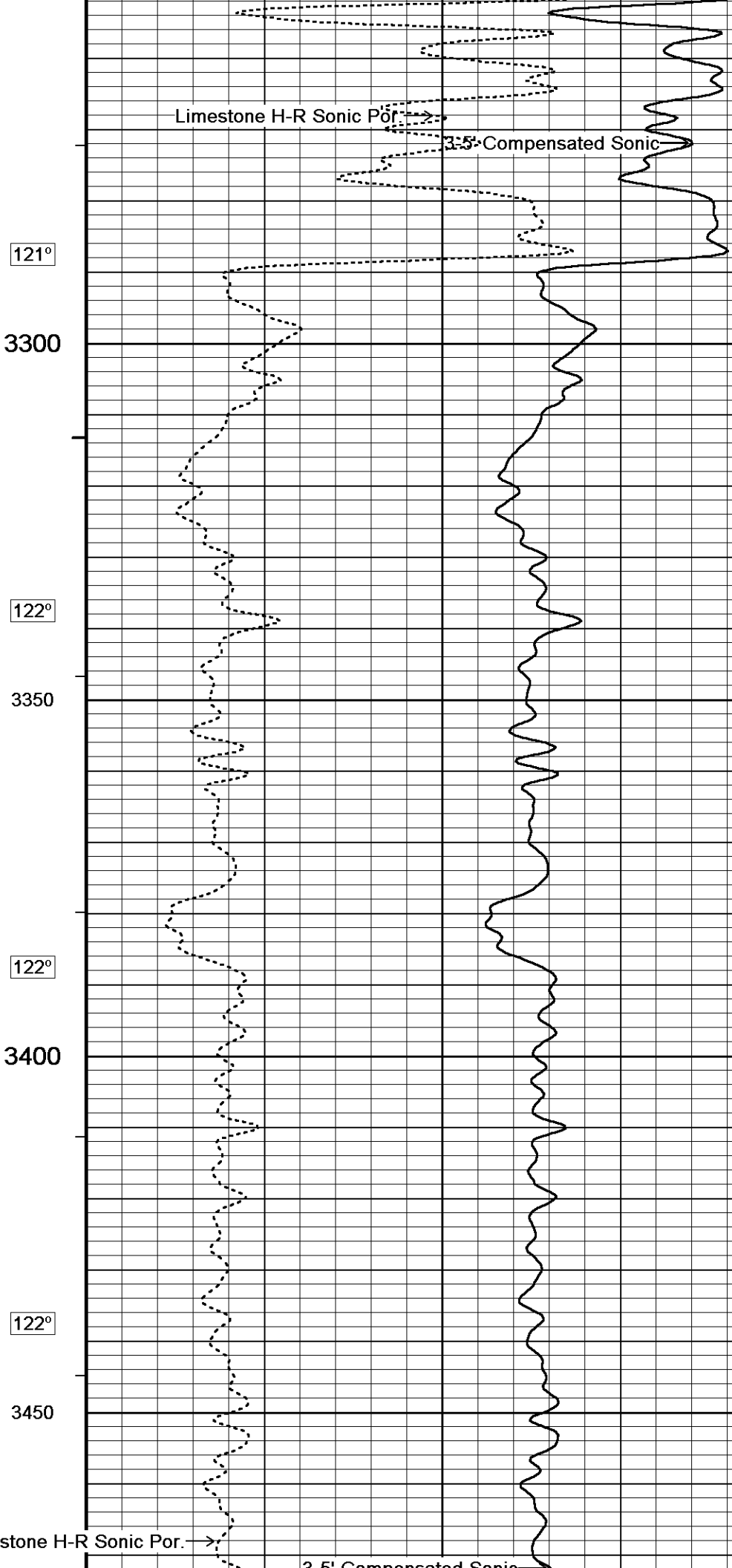
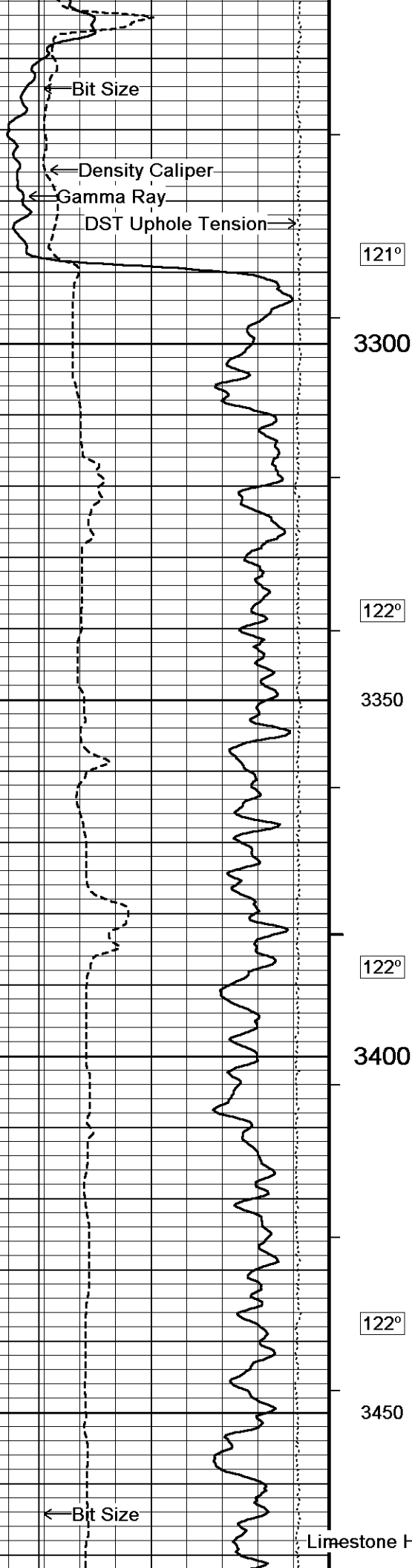


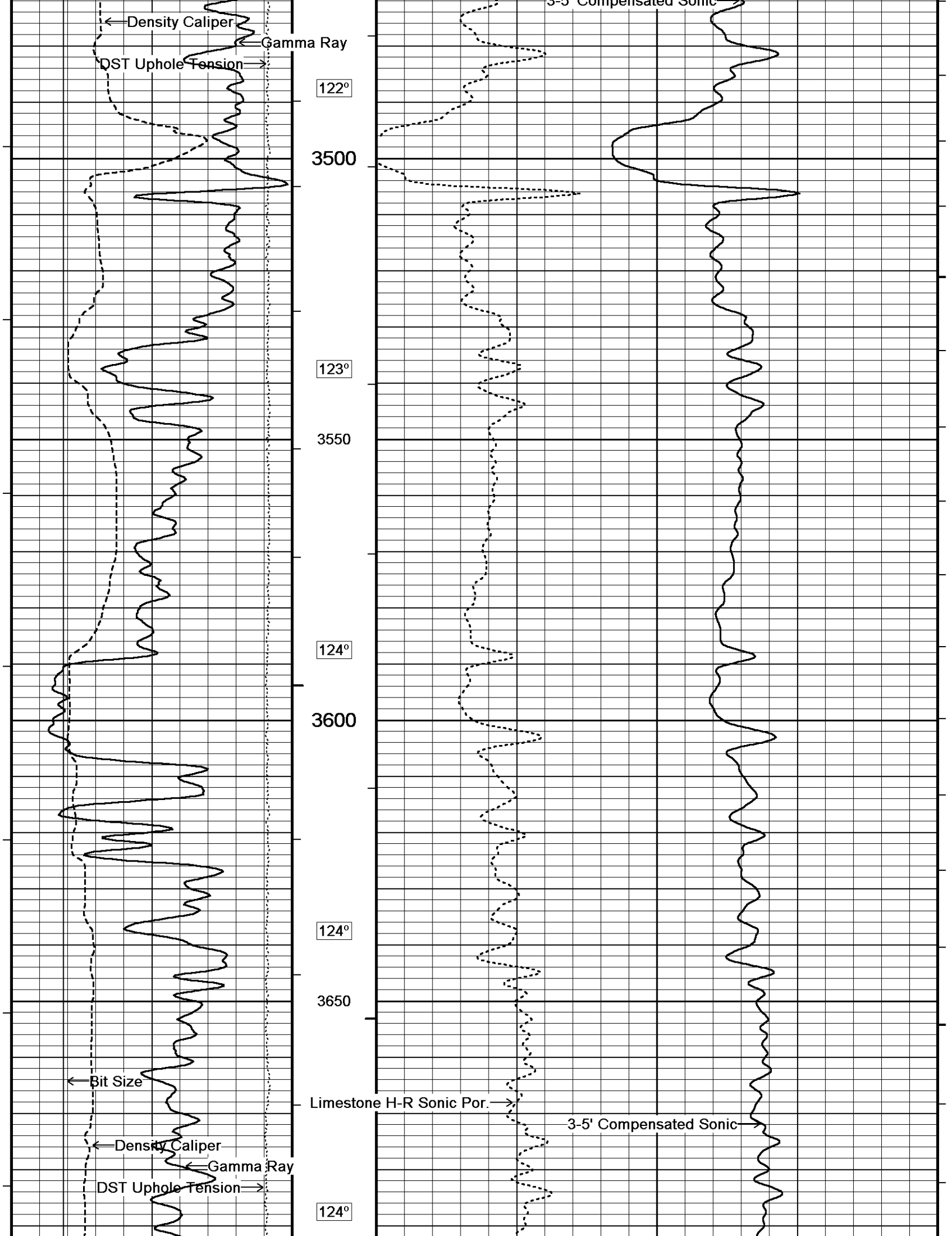


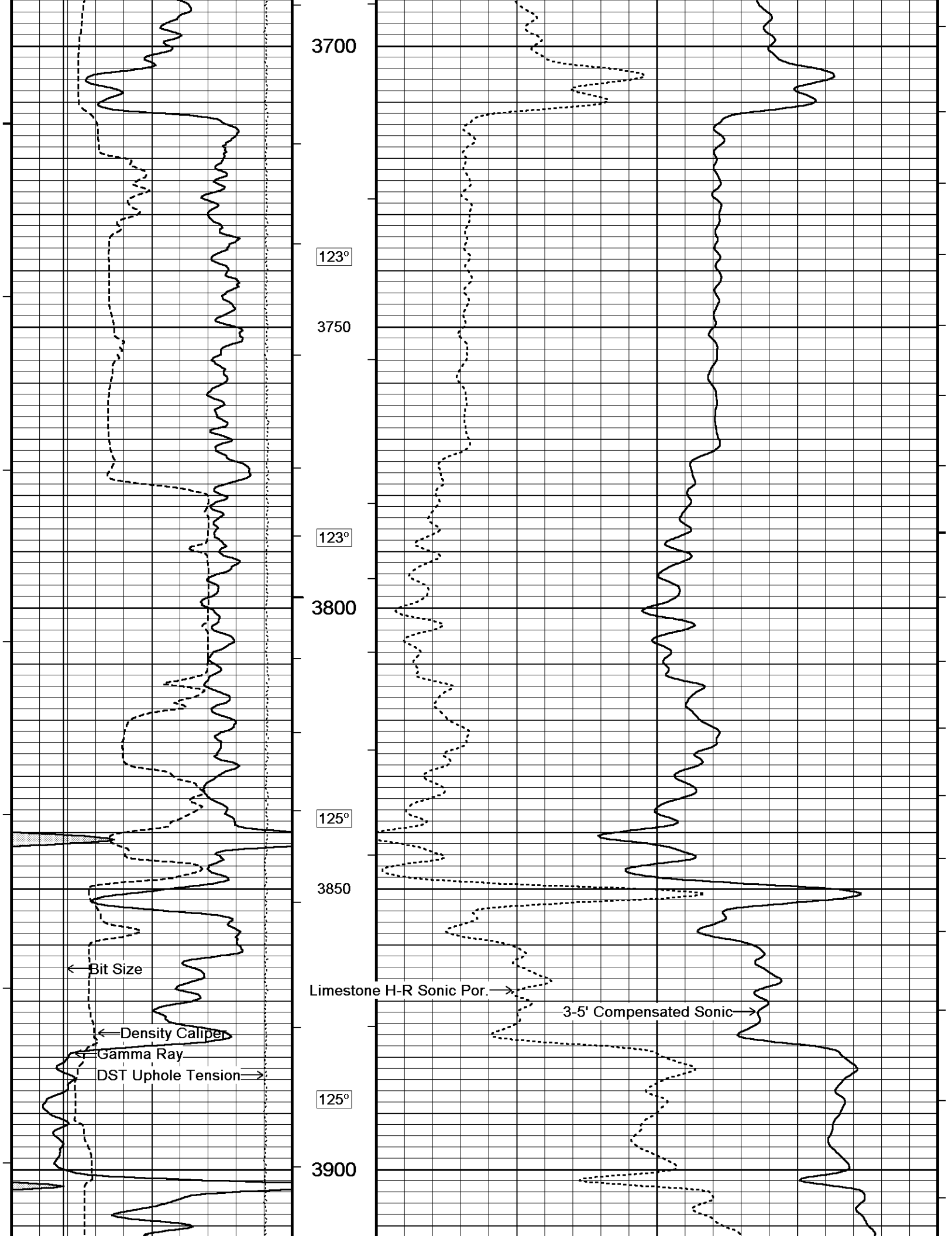


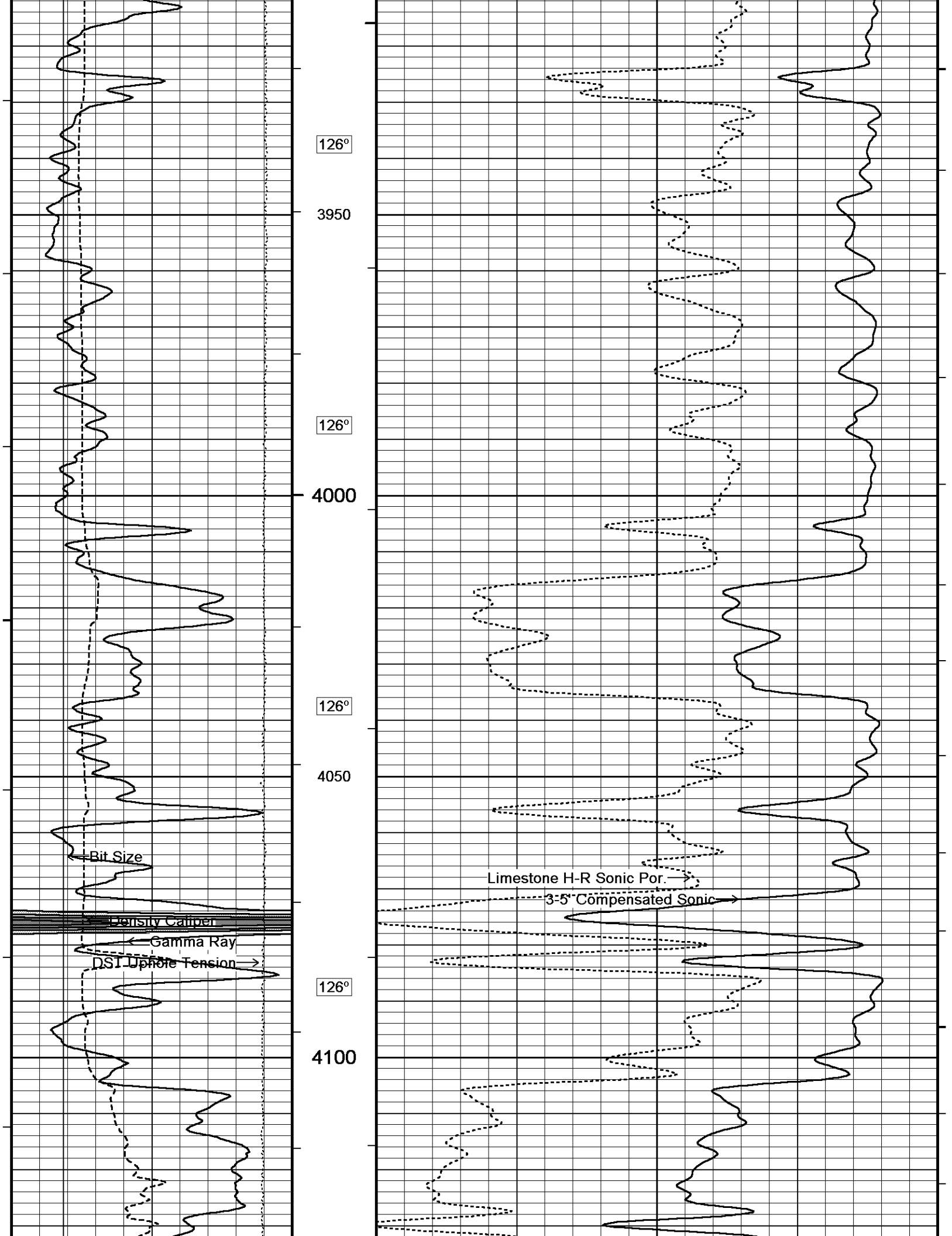


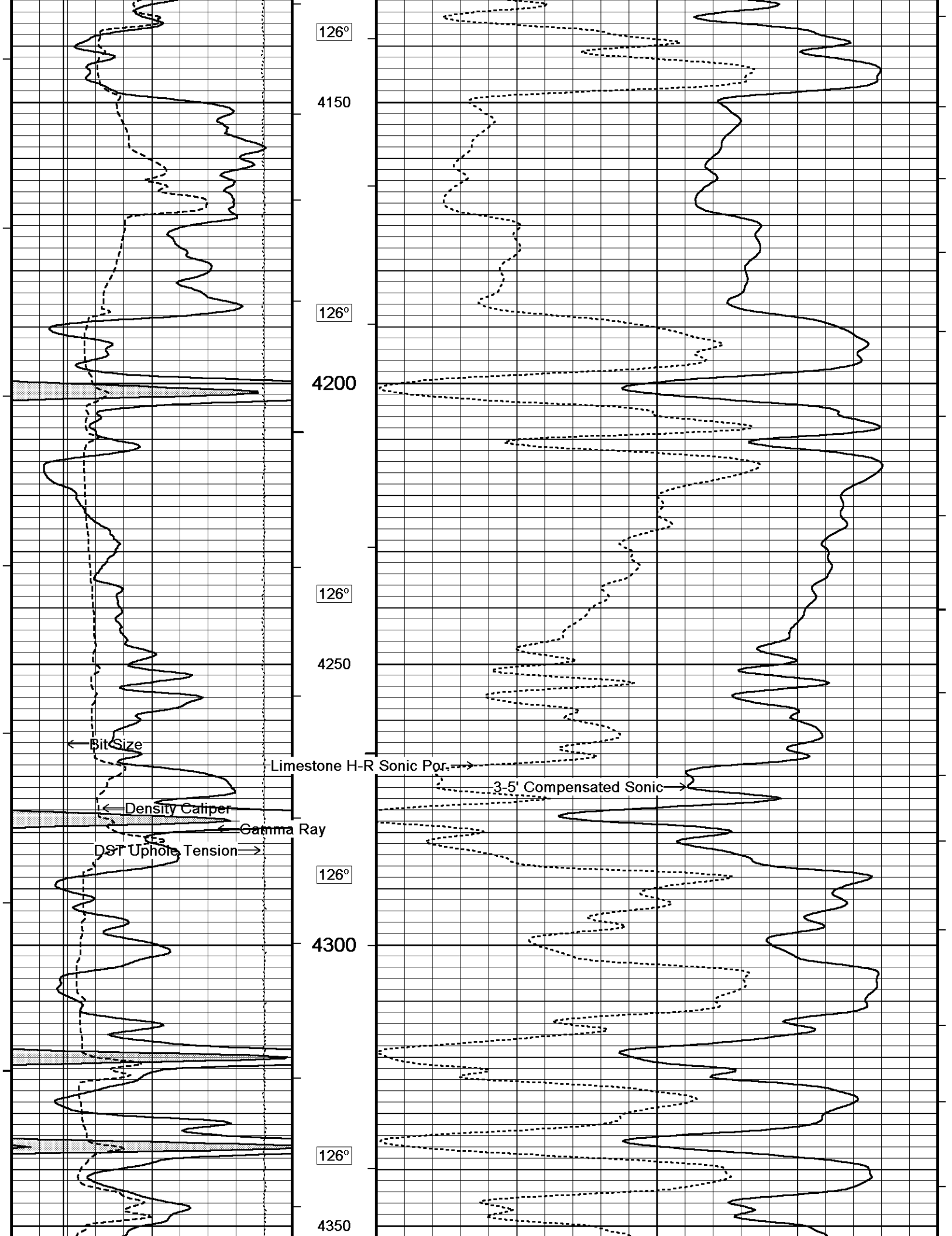


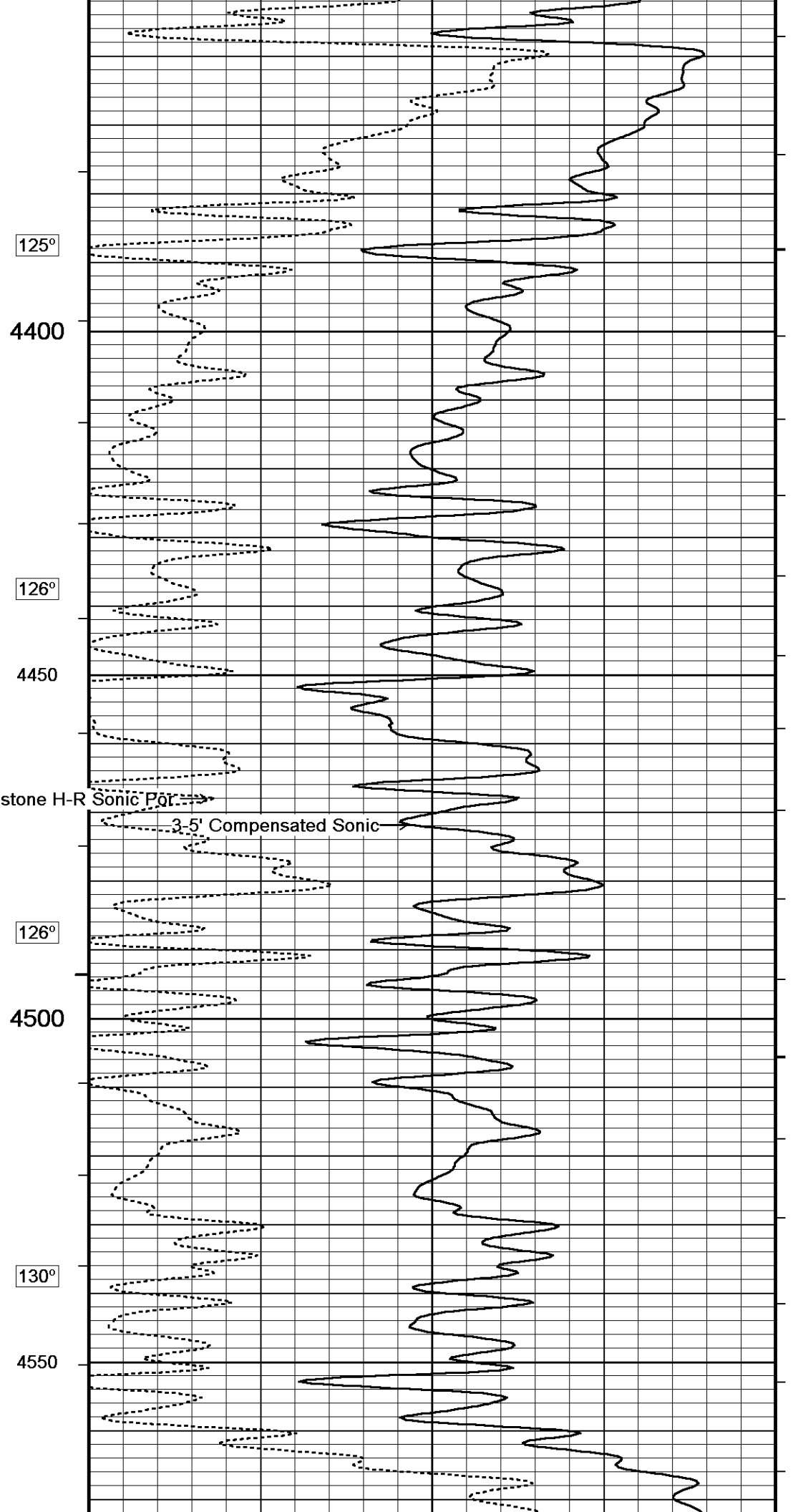
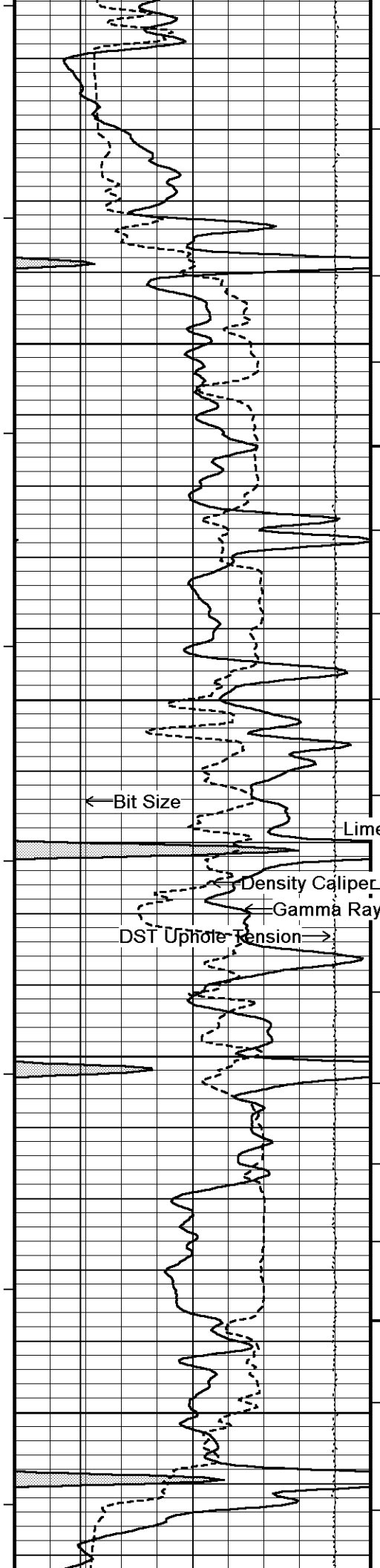


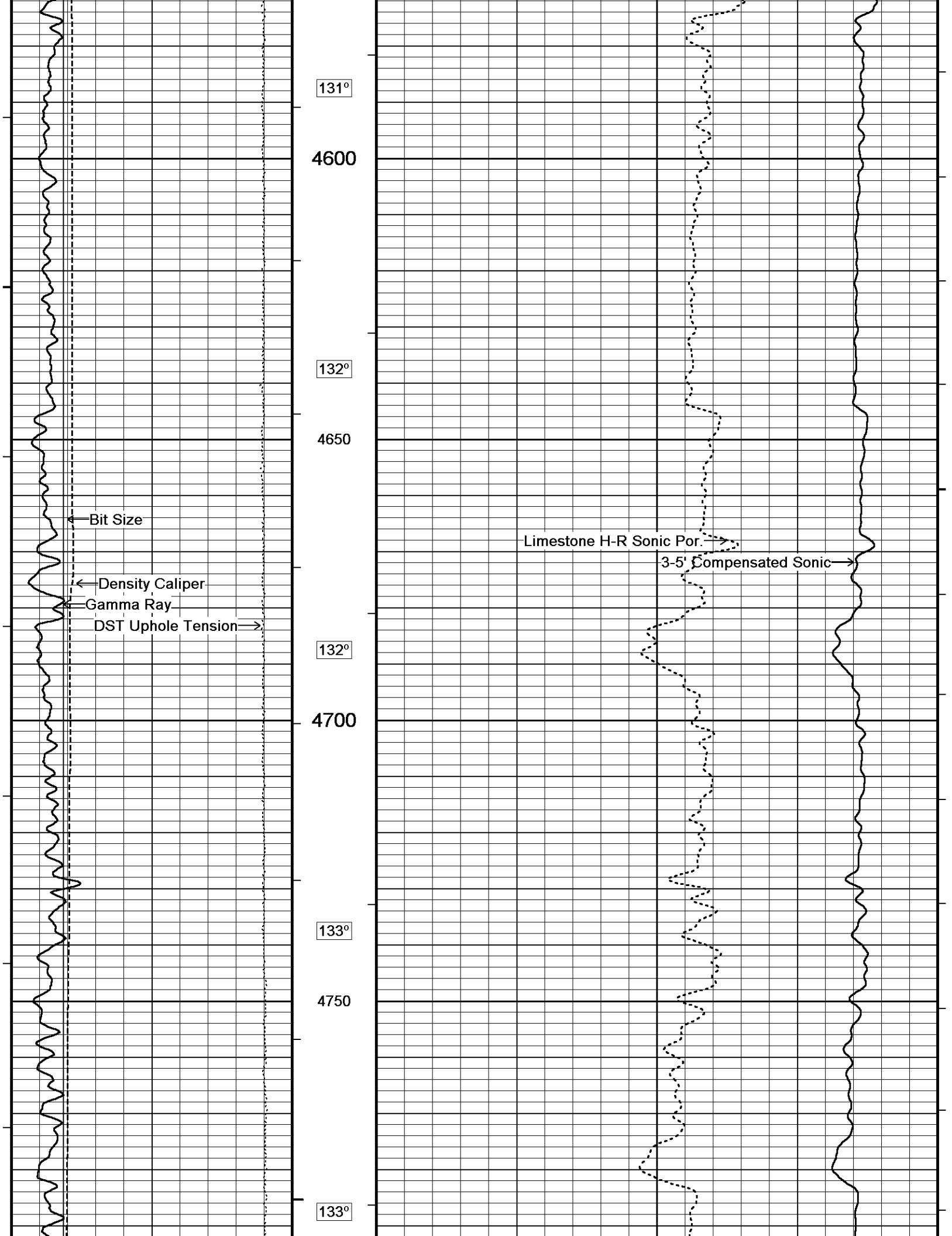


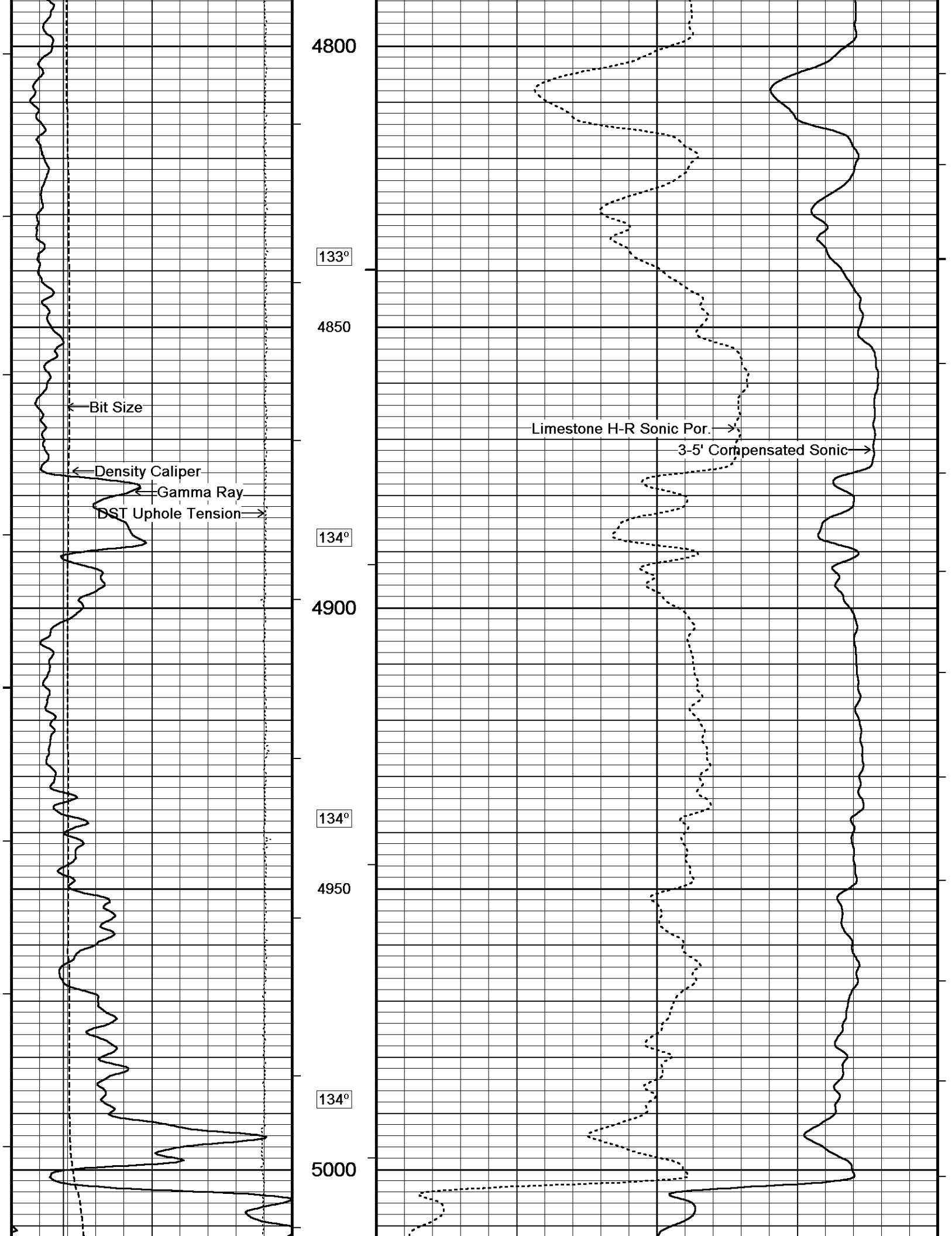


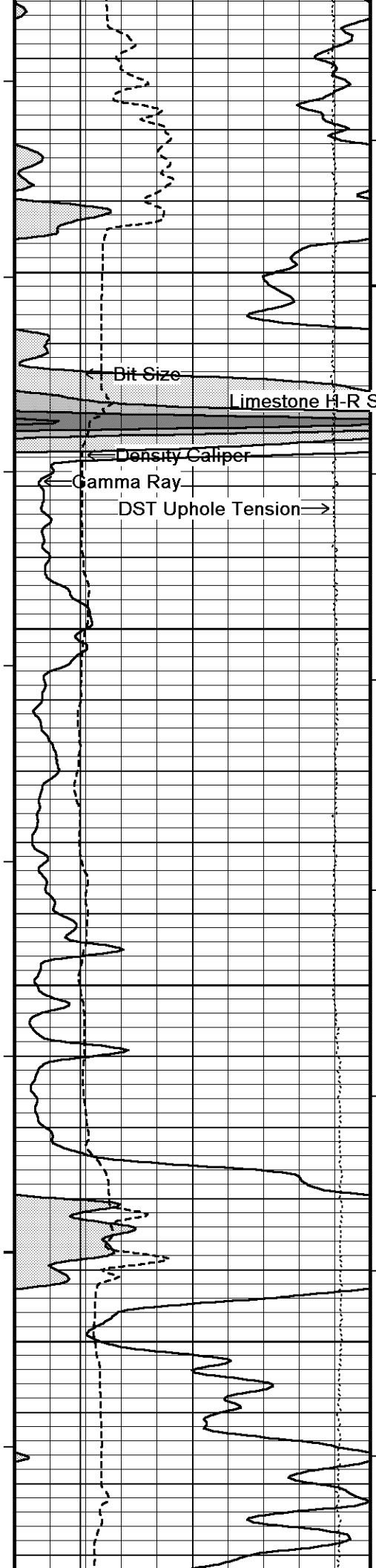












135°

5050

Bit Size

Limestone H-R Sonic Por.

Density Caliper

Gamma Ray

DST Uphole Tension

137°

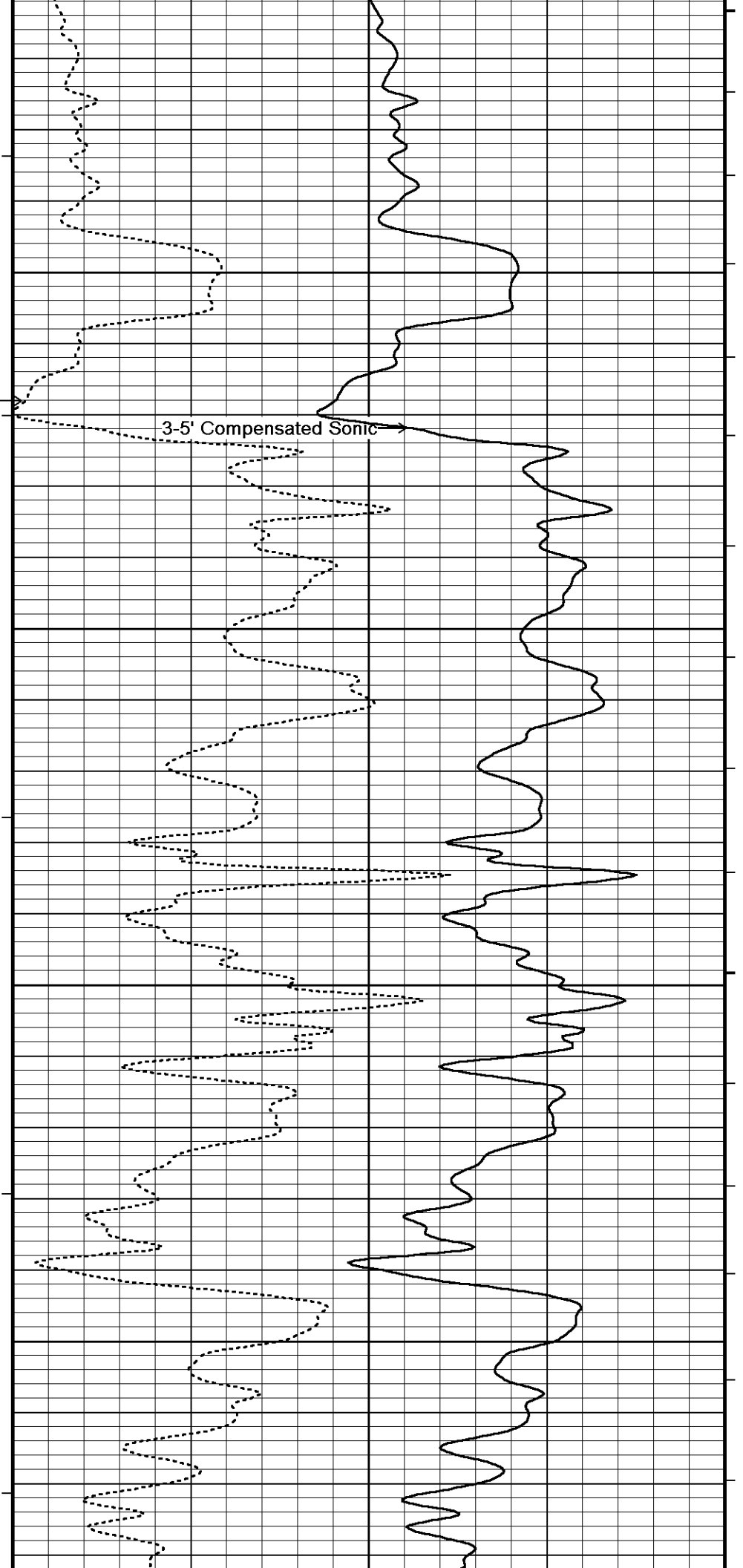
5100

137°

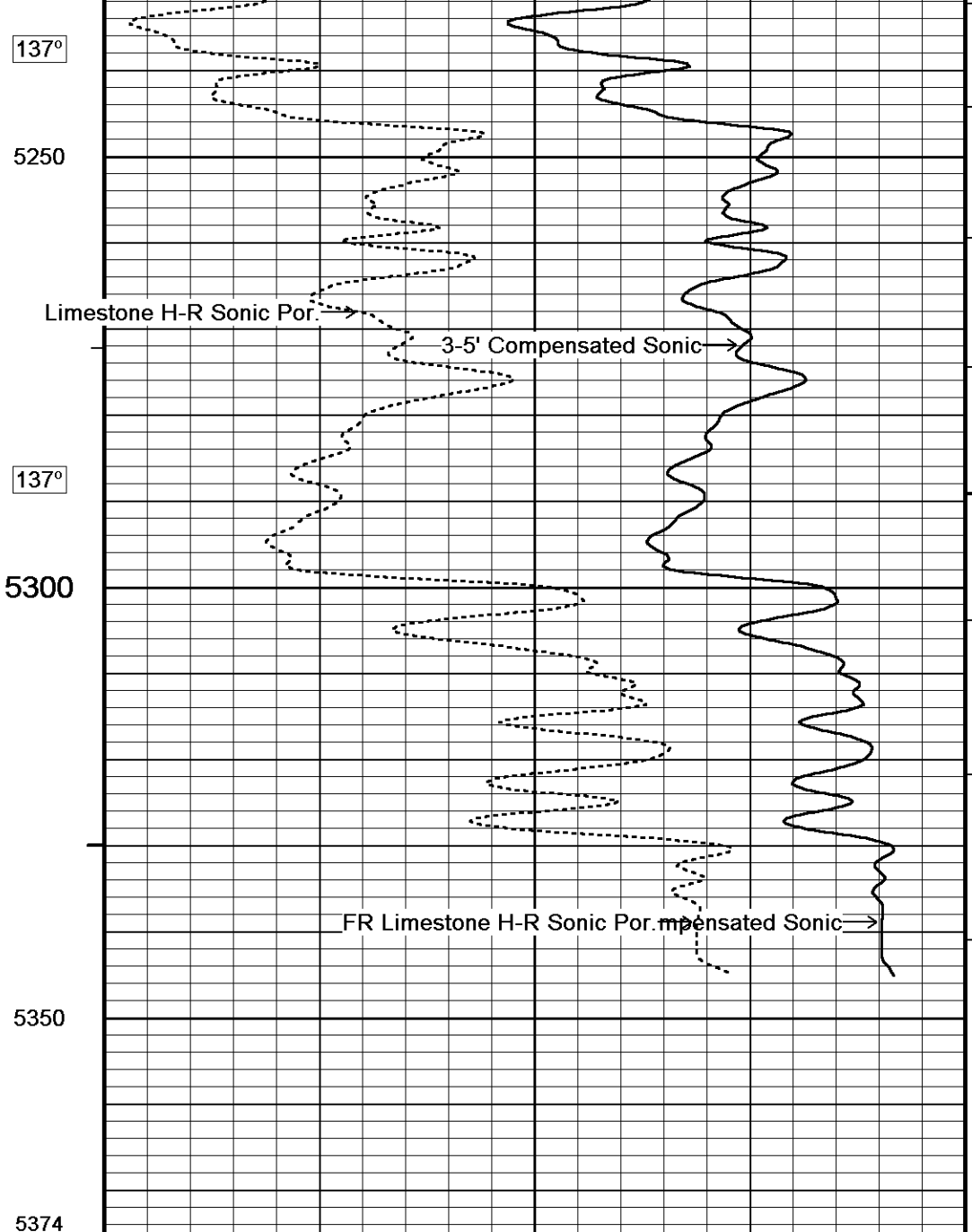
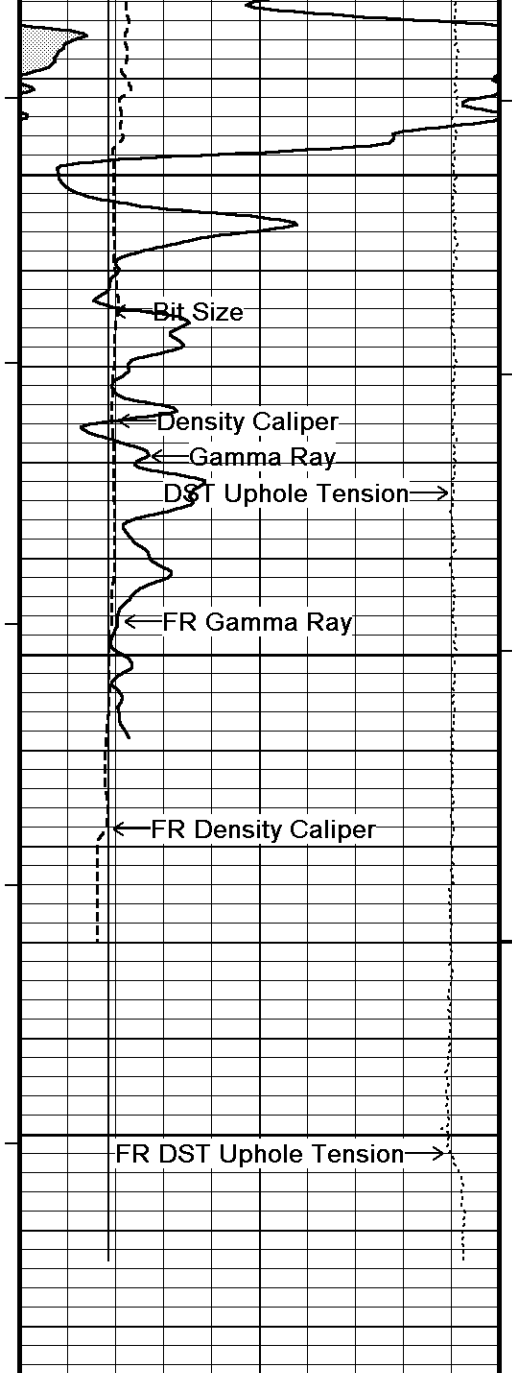
5150

137°

5200



3-5' Compensated Sonic



137°
5250
137°
5300
5350
5374

Depth in Feet

Timing Marks every 60.0 sec

Transit Time every millisecc

Gamma Ray

Borehole Temp in deg F		
0	75	150
150	225	300

3-5' Compensated Sonic

Density Caliper
inches

6	11	16
---	----	----

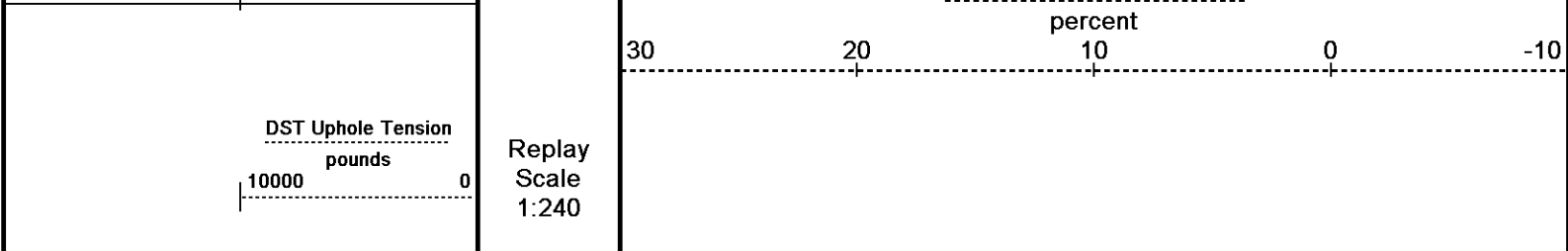
HVI every 10 cu ft
140 115 90 65 40

Bit Size
inches

6	11	16
---	----	----

Annular Integral every 10 cu ft

Limestone H-R Sonic Por.

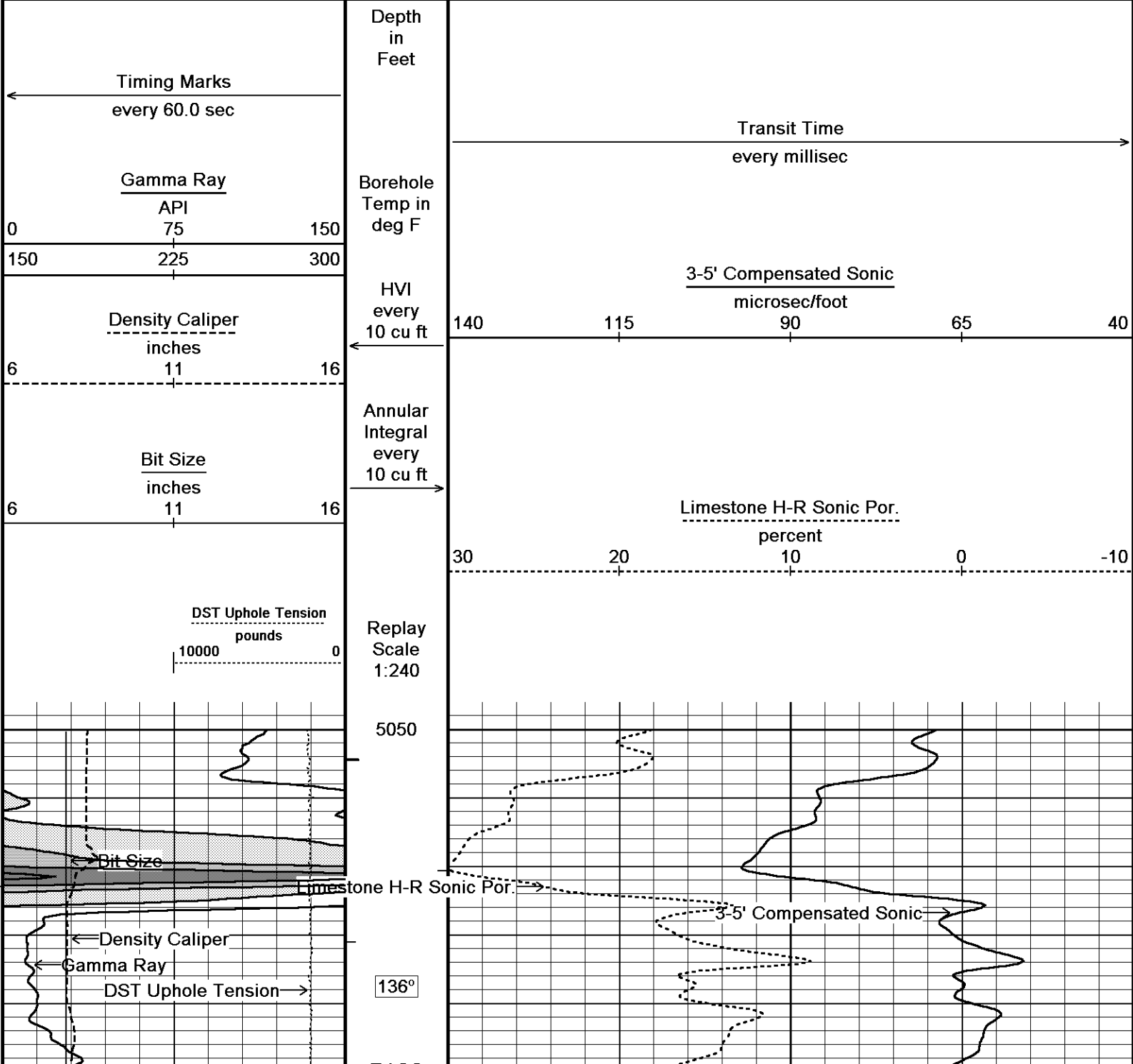


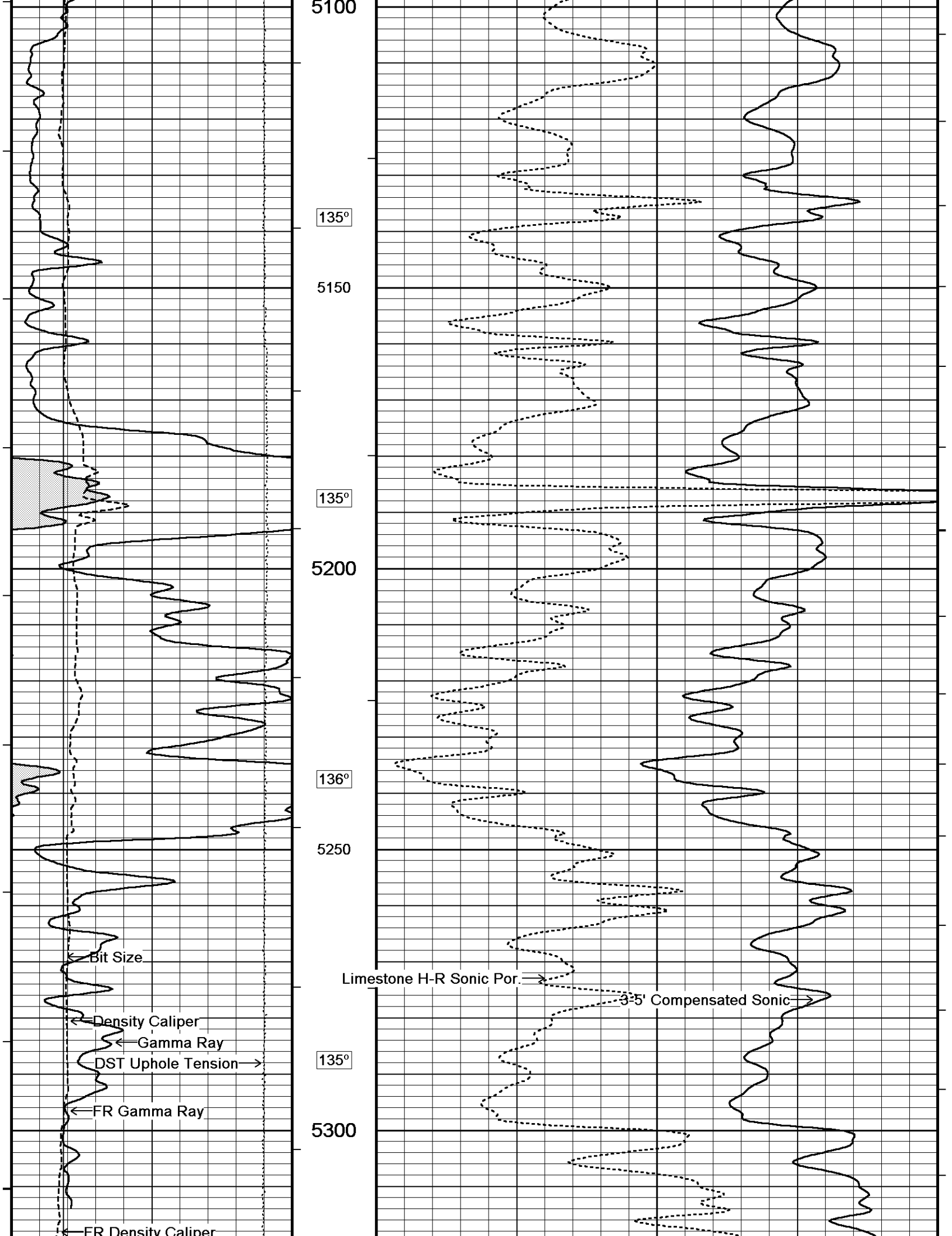
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 29-SEP-2011 08:14
 Filename: C:\Users\garcian\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27_003.dta
 Recorded on 28-SEP-2011 18:24
 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513

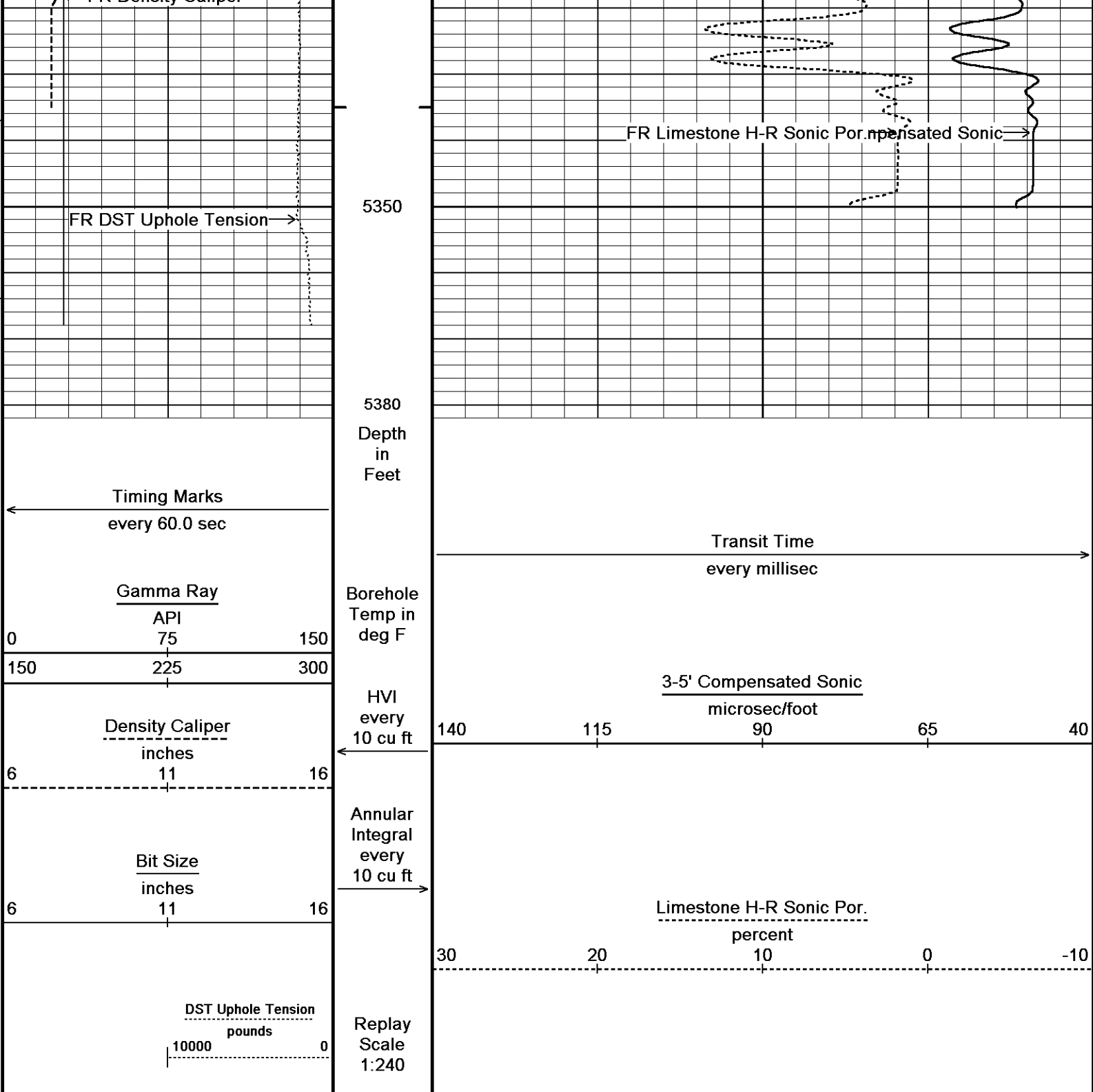
↑ 5 INCH MAIN LOG ↑

↓ REPEAT SECTION ↓

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 29-SEP-2011 08:14
 Filename: C:\Users\garcian\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27_002.dta
 Recorded on 28-SEP-2011 18:07
 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513







Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 29-SEP-2011 08:14
 Filename: C:\Users\garcian\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27_002.dta
 Recorded on 28-SEP-2011 18:07
 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Users\garcian\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27.dta
 Last Edited on 28-SEP-2011 18:30

General Constants All 000

General Parameters		
Mud Resistivity	1.500	ohm-metres
Mud Resistivity Temperature	82.000	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	None		

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 10-SEP-2011 14:39

Reading No	Measured	Calibrated (lbs)
1	14299.72	0.00
2	15662.60	358.00

Gamma Calibration MCG-D.A 328

Field Calibration on 28-SEP-2011 17:04

	Measured	Calibrated (API)
Background	42	29
Calibrator (Gross)	1361	926
Calibrator (Net)	1319	897

Gamma Constants MCG-D.A 328

Last Edited on 28-SEP-2011 17:04

Gamma Calibrator Number	13226	
Mud Density	1.08	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-D.A 328

Field Calibration on 28-SEP-2011 17:04

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

High Resolution Temperature Calibration MCG-D.A 328

Field Calibration on 28-SEP-2011 17:04

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	150.00	150.00

High Resolution Temperature Constants MCG-D.A 328

Last Edited on

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

Micro Normal and Micro Inverse Calibration MML-A 13

Base Calibration on 22-SEP-2011 17:10

Field Check on 28-SEP-2011 17:04

Base Calibration

		Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2	
Micro Normal	12.3	58.0	2.6	12.8	
Micro Inverse	16.4	77.4	1.7	8.4	

Channel	Base Check (ohm-m)		Field Check (ohm-m)	
Micro Normal	33.6		33.6	
Micro Inverse	16.6		16.6	

Micro Normal and Micro Inverse Constants MML-A 13

Last Edited on 28-SEP-2011 17:04

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 13

Base Calibration on 22-SEP-2011 16:35

Field Calibration on 28-SEP-2011 18:18

Base Calibration		
Reading No	Measured	Calibrator Size (in)

1	13606	5.98
2	16663	7.98
3	20008	9.95
4	23797	12.01
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.30	8.10

Neutron Calibration MDN-A.A 10

Base Calibration on 12-MAY-2011 19:29
Field Check on 28-SEP-2011 17:04

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)	
1248	1792
Ratio	0.696

Neutron Constants MDN-A.A 10

Last Edited on 28-SEP-2011 17:04

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
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 10-AUG-2011 15:44
Field Check on 28-SEP-2011 17:05

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	961.4	126.8

Base Check 280.8

Field Check 280.8

FE Constants MFE-A.A 65

Last Edited on 28-SEP-2011 17:05

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 101

Last Edited on 28-SEP-2011 17:05

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	17.50	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	Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	Depth (ft)
N/A		N/A	N/A	0.00
N/A		N/A	N/A	0.00
N/A		N/A	N/A	0.00
N/A		N/A	N/A	0.00
N/A		N/A	N/A	0.00

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
Sonic 2 Despiker	N/A

Induction Calibration MAI-B.J 393

Base Calibration on 22-SEP-2010 10:00
Field Check on 28-SEP-2011 17:05

Test Loop Calibration Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	17.4	474.6	9.3	966.2
2	6.5	382.5	7.6	821.4
3	3.5	251.8	5.2	566.0
4	2.1	131.0	2.6	279.2
Array Temperature	74.1		Deg F	

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	16.2	3824.1
2	0.0	0.0	31.7	3523.5
3	0.0	0.0	31.1	3140.9

4	0.0	0.0	20.8	2111.9
Deep	0.0	0.0	19.9	2110.3
Medium	0.0	0.0	44.9	4139.0
Shallow	0.0	0.0	46.1	5104.5

Array Temperature 0.0 95.0 Deg F

Induction Constants MAI-B.J 393

Last Edited on 28-SEP-2011 17:06

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		0.0020	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-B.J 393

Field Calibration on 28-SEP-2011 17:06

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

High Resolution Temperature Constants MAI-B.J 393

Last Edited on

Pre-filter Length 11

Caliper Calibration MPD-A 3

Base Calibration on 10-AUG-2011 16:37

Field Calibration on 28-SEP-2011 18:19

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)
8.43	8.10

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	47357	25239	60364	31945
Reference 2	20102	2812	25079	2547

Field Check at Base
1315.7 1670.4

Field Check
1315.7 1670.4

PE Calibration

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	242	1164		
Reference 1	19956	47156	0.429	0.399
Reference 2	5535	19946	0.282	0.273

Field Check at Base
241.8 1163.6

Field Check
241.8 1163.6

Density Constants MPD-A 3

Last Edited on 28-SEP-2011 17:05

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	1.08	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

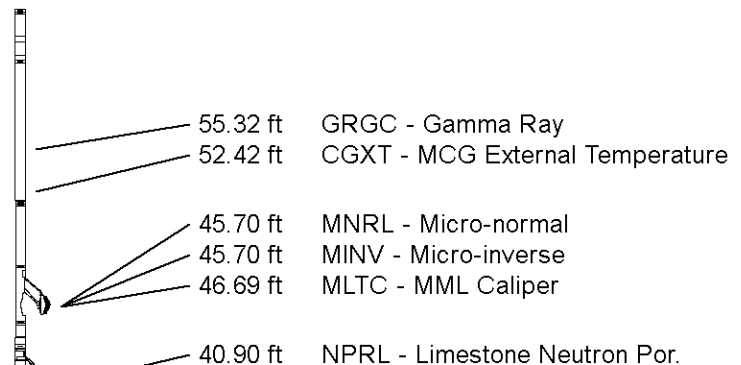
C:\Users\garcianr\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27.dta

SHA-F Compact Swivel Head Adaptor
SHA-F 45 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.A 328 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 13 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

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

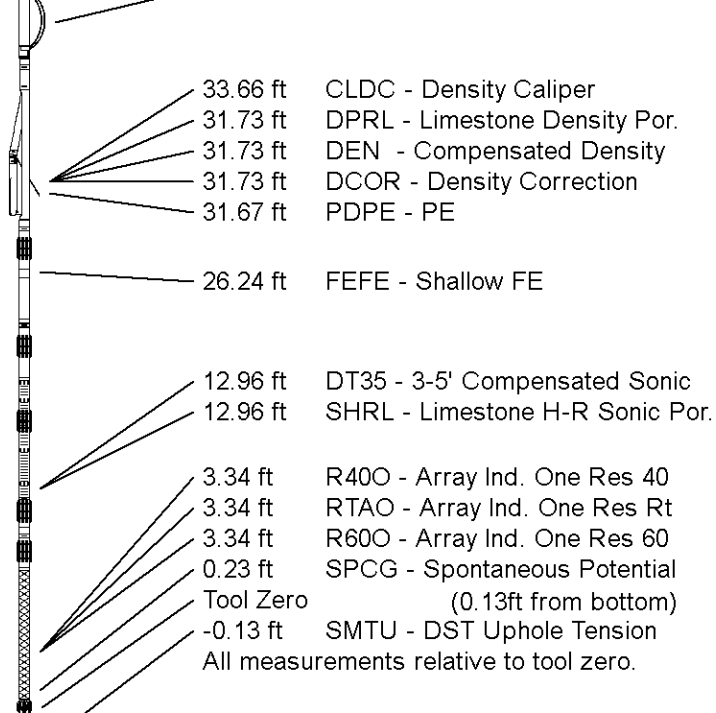
Compact Sonic

MSS-A.A 101 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in

Compact Induction

MAI-B.J 393 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 63.35 ft Weight: 482.8 lb



COMPANY	SHORELINE ENERGY PARTNERS, LLC.
WELL	SEIFERT 1-27
FIELD	WILDCAT
PROVINCE/COUNTY	HARPER
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	1216.00	feet	First Reading	5339.00	feet
Elevation Drill Floor	1214.00	feet	Depth Driller	5355.00	feet
Elevation Ground Level	1206.00	feet	Depth Logger	5352.00	feet



Weatherford[®]

COMPENSATED SONIC
LOG

