



Weatherford[®]

**COMPENSATED SONIC
WITH INTEGRATED TRANSIT TIME**

COMPANY				SHAKESPEARE OIL CO, INC.			
WELL				TUCKER 1-5			
FIELD				WILDCAT			
PROVINCE/COUNTY				SCOTT			
COUNTRY/STATE				U.S.A. / KANSAS			
LOCATION				2305' FSL & 2310' FEL			
SEC	TWP	RGE	Other Services				
5	16	34W	MPD/MDN				
API Number	15-171-20976		MAI/MFE				
Permit Number			MML				
Permanent Datum GL, Elevation 3102 feet					Elevations:		
Log Measured From KB					KB 3112.00		
Drilling Measured From KB					DF 3110.00		
					GL 3102.00		
Date	20-OCT-2013						
Run Number	ONE						
Service Order	3539909						
Depth Driller	4865.00				feet		
Depth Logger	4864.00				feet		
First Reading	4851.04				feet		
Last Reading	3800.00				feet		
Casing Driller	268.00				feet		
Casing Logger	262.00				feet		
Bit Size	7.875				inches		
Hole Fluid Type	CHEM						
Density / Viscosity	8.80 lb/USg		46.00 CP				
PH / Fluid Loss	10.50		8.80 ml/30Min				
Sample Source	MUDPIT						
Rm @ Measured Temp	0.46 @ 62.0		ohm-m				
Rmf @ Measured Temp	0.37 @ 62.0		ohm-m				
Rmc @ Measured Temp	0.55 @ 62.0		ohm-m				
Source Rmf / Rmc	CALC	CALC					
Rm @ BHT	0.27 @109.0		ohm-m				
Time Since Circulation	4 HRS						
Max Recorded Temp	109.00		deg F				
Equipment / Base	13057	LIB					
Recorded By	ROB HOFFMAN				DEREK CARTER		
Witnessed By	TIM PRIEST						
JOB #	LB13-297						

BOREHOLE RECORD				Last Edited: 21-OCT-2013 03:14
Bit Size inches		Depth From feet		Depth To feet
7.875		268.00		4865.00
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	268.00	24.00

REMARKS
- SOFTWARE ISSUE: WLS 13.05.9583
- TOOLS: MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION
- HARDWARE: MDN: DUAL BOWSPRING ECCENTRALIZER MFE: 1 X 0.5 INCH STANDOFF MSS: 2 X 0.5 INCH STANDOFF MAI: 2 X 0.5 INCH STANDOFF
- 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 3800 FT.: 370 CU. FT.

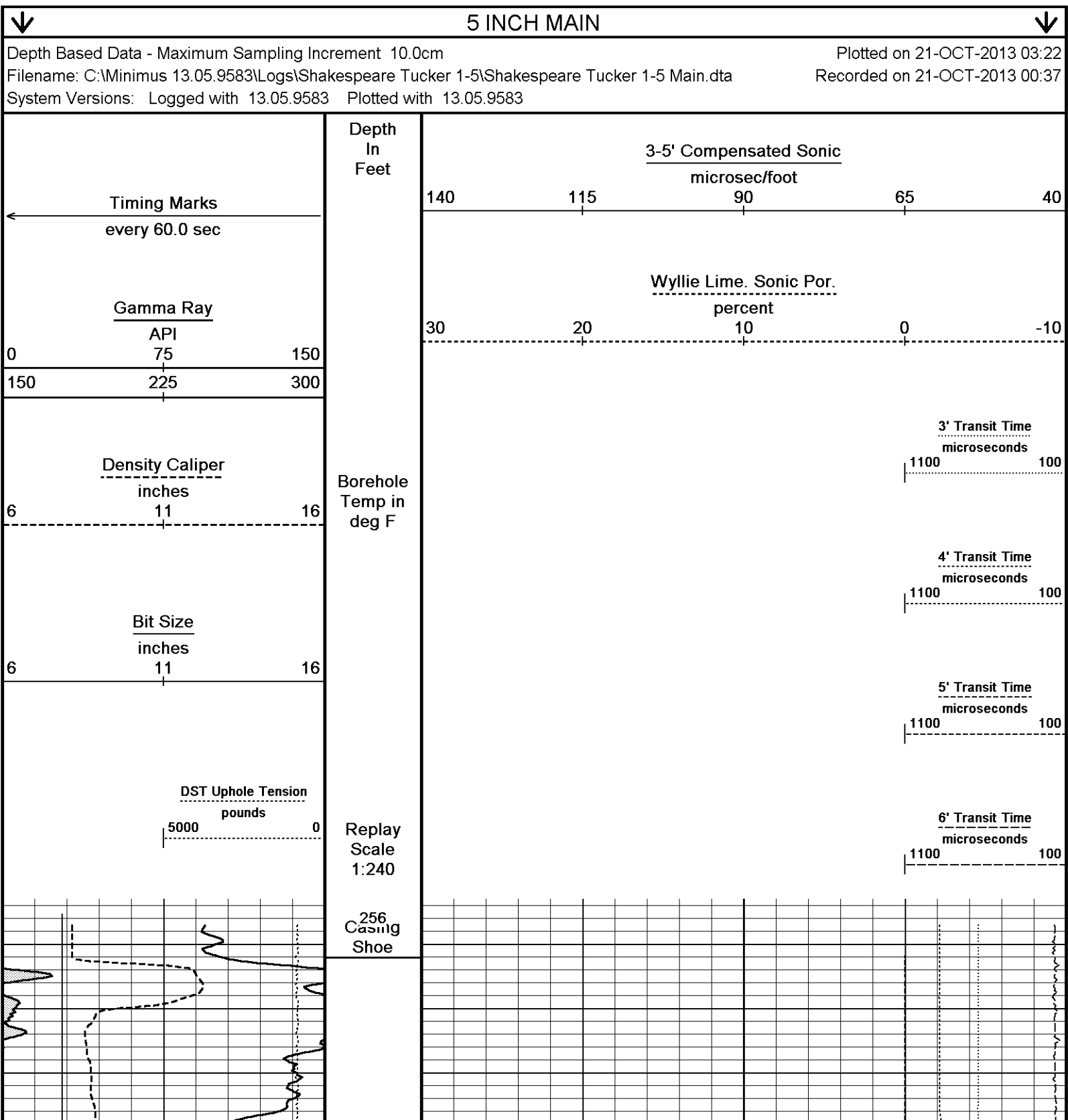
- ANNULAR HOLE VOLUME WITH 4.5 INCH CASING FROM TD TO 3800 FT.: 260 CU. FT.

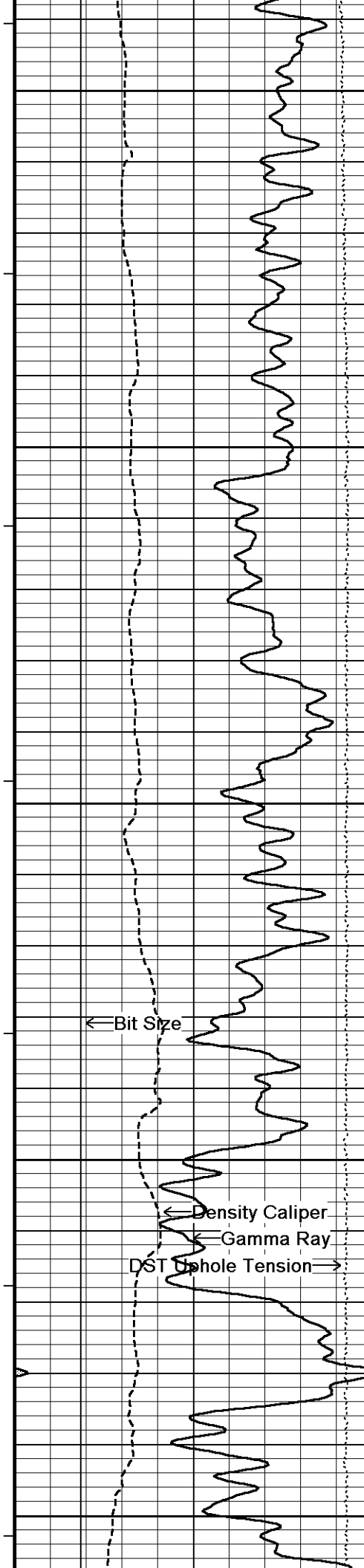
- RIG: HD DRILLING #2

- ENGINEER: ROB HOFFMAN, DEREK CARTER

- OPERATOR: OSCAR CRUZ

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.





300

83°

350

84°

400

← Bit Size

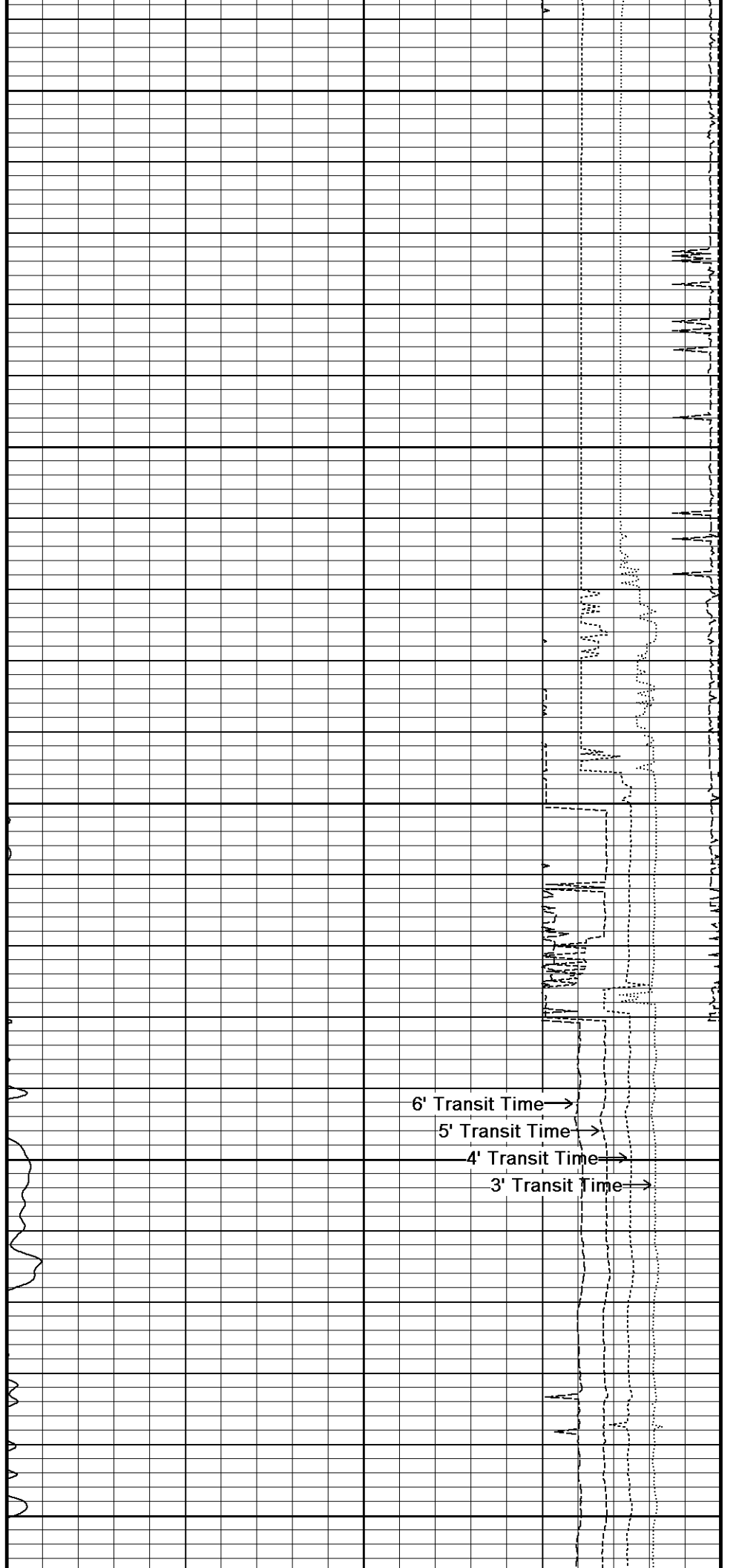
85°

450

← Density Caliper
← Gamma Ray
DST Up-hole Tension →

85°

500

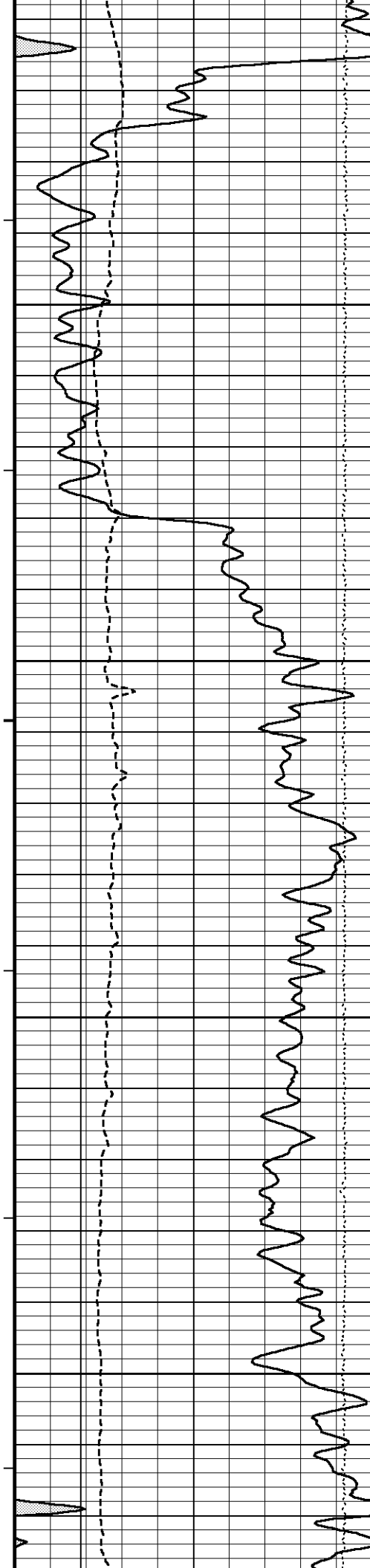


6' Transit Time →

5' Transit Time →

4' Transit Time →

3' Transit Time →



86°

550

86°

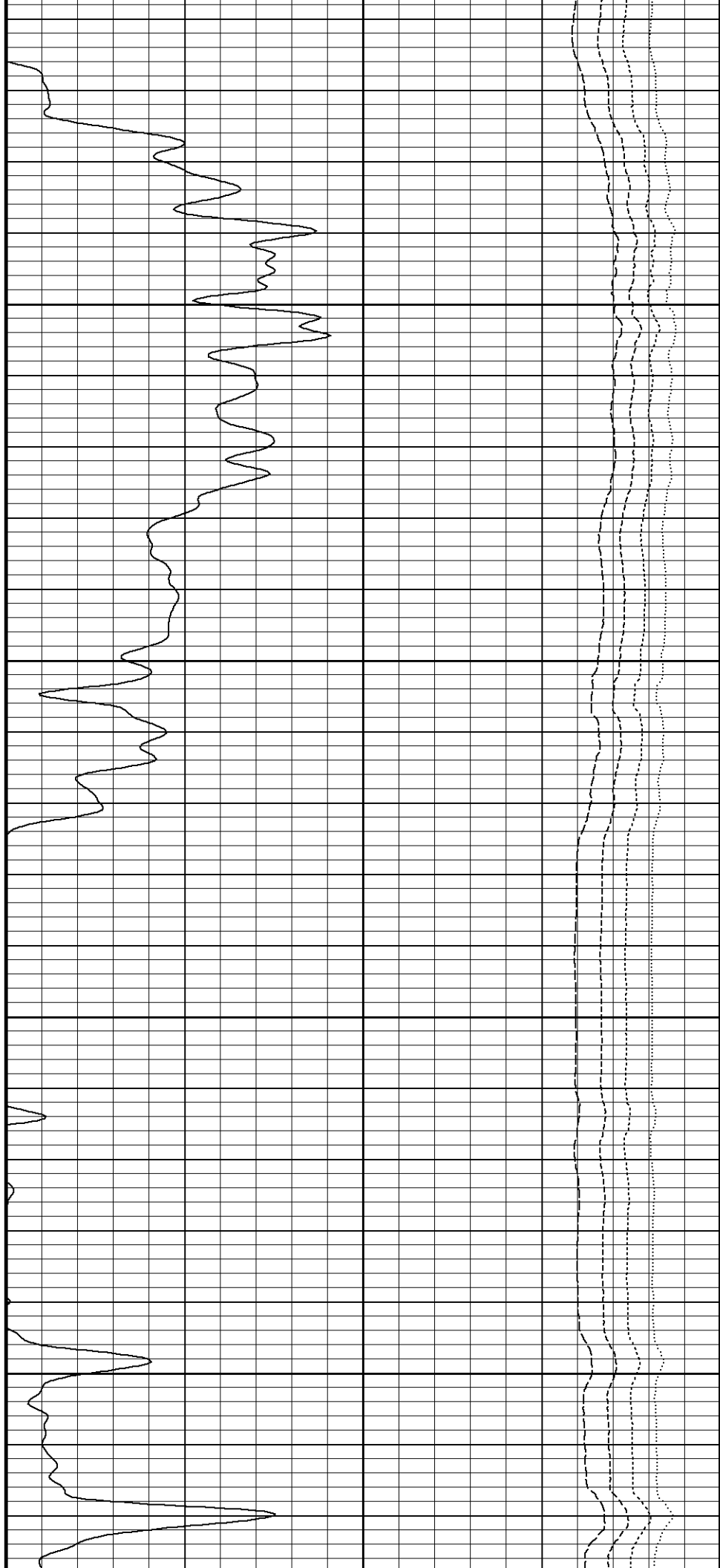
600

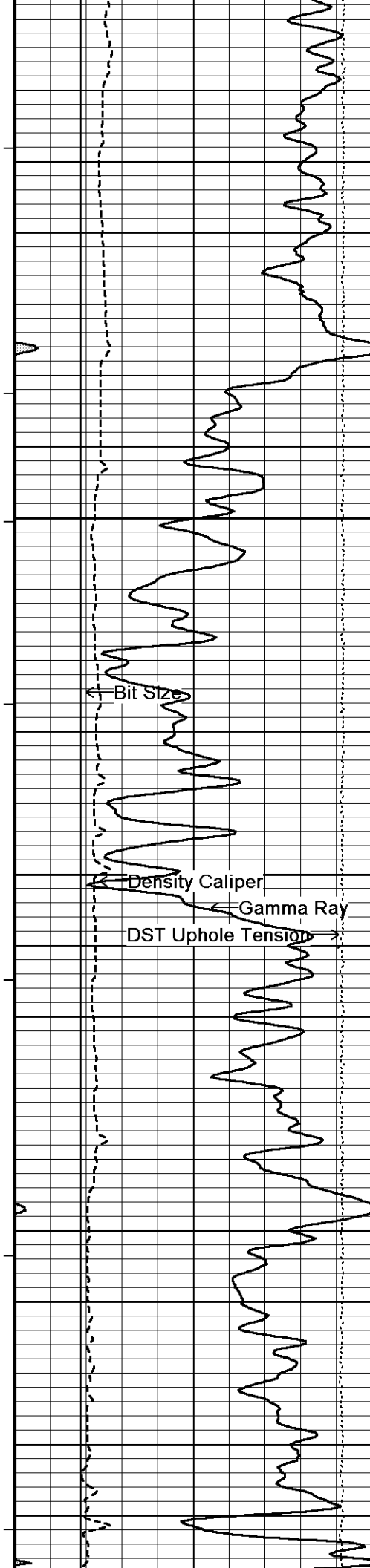
87°

650

87°

700





87°

750

88°

800

88°

850

89°

900

89°

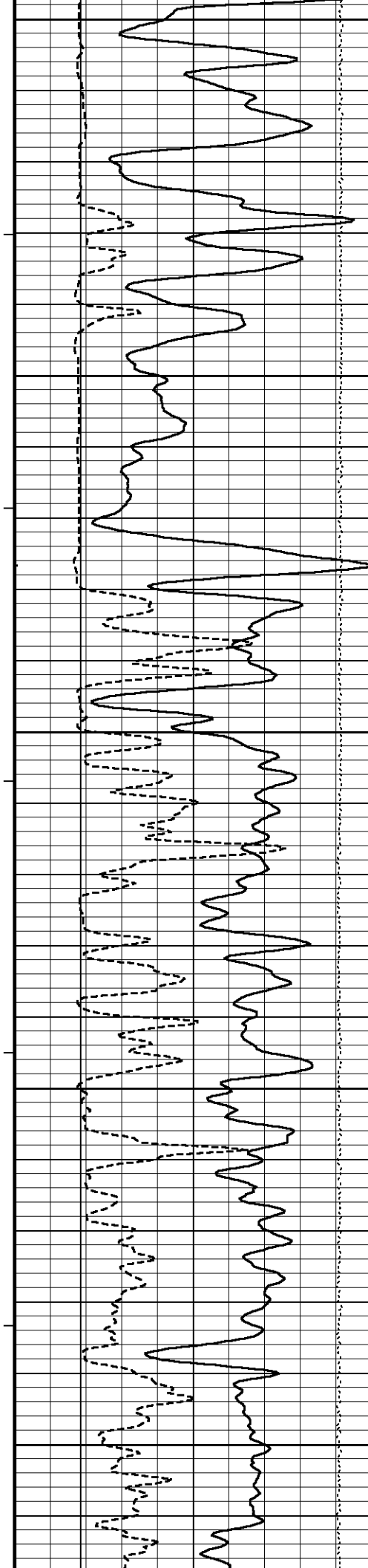
3-5' Compensated Sonic

6' Transit Time

5' Transit Time

4' Transit Time

3' Transit Time



950

89°

1000

89°

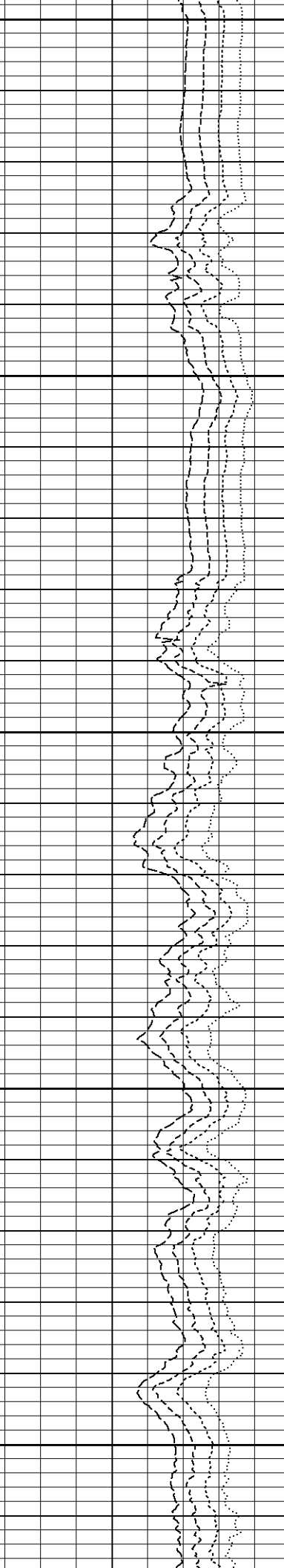
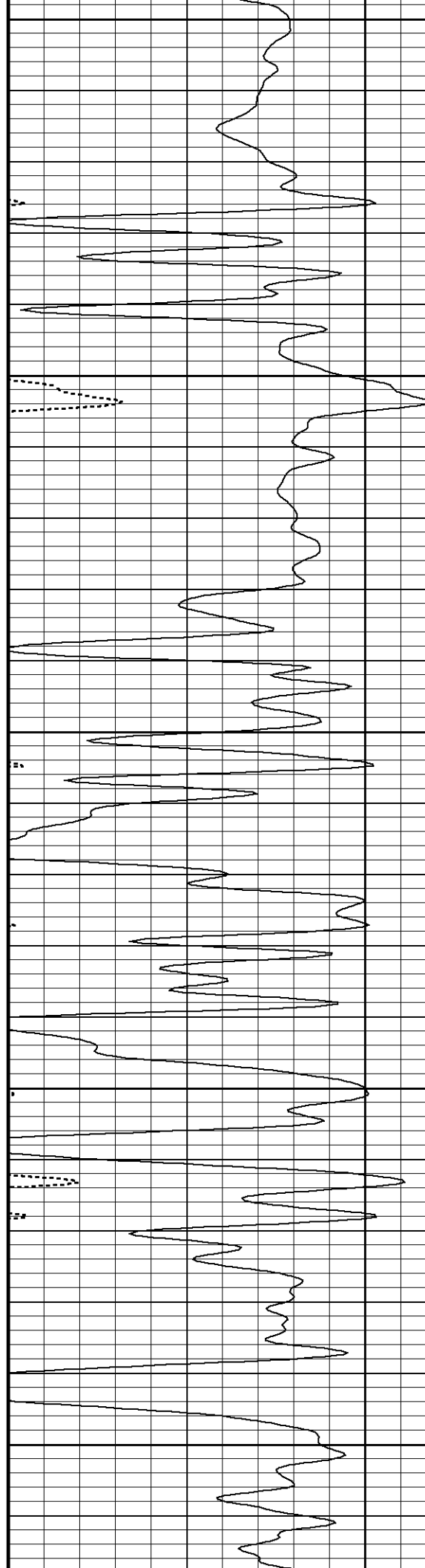
1050

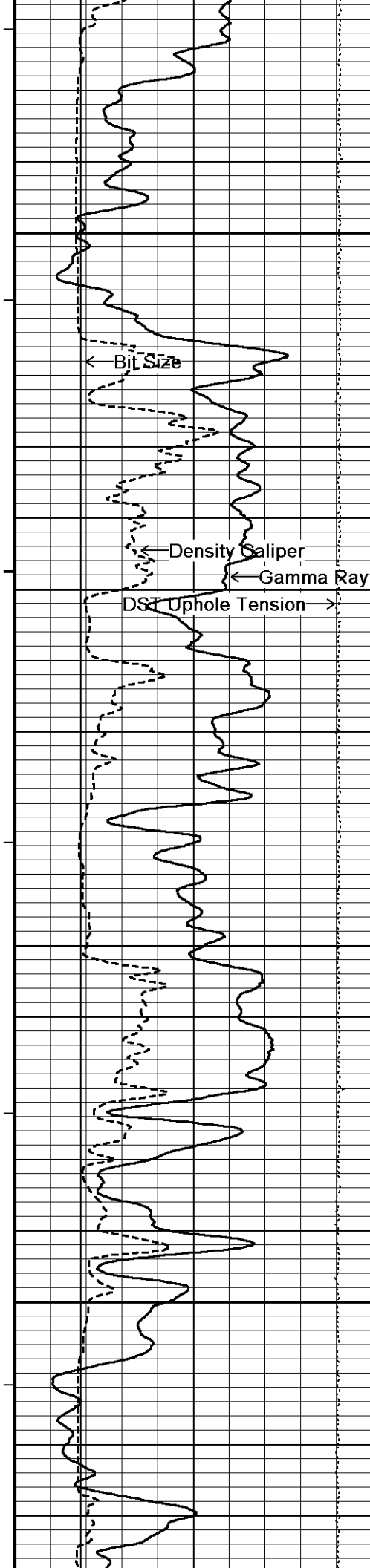
89°

1100

90°

1150





90°

1200

90°

1250

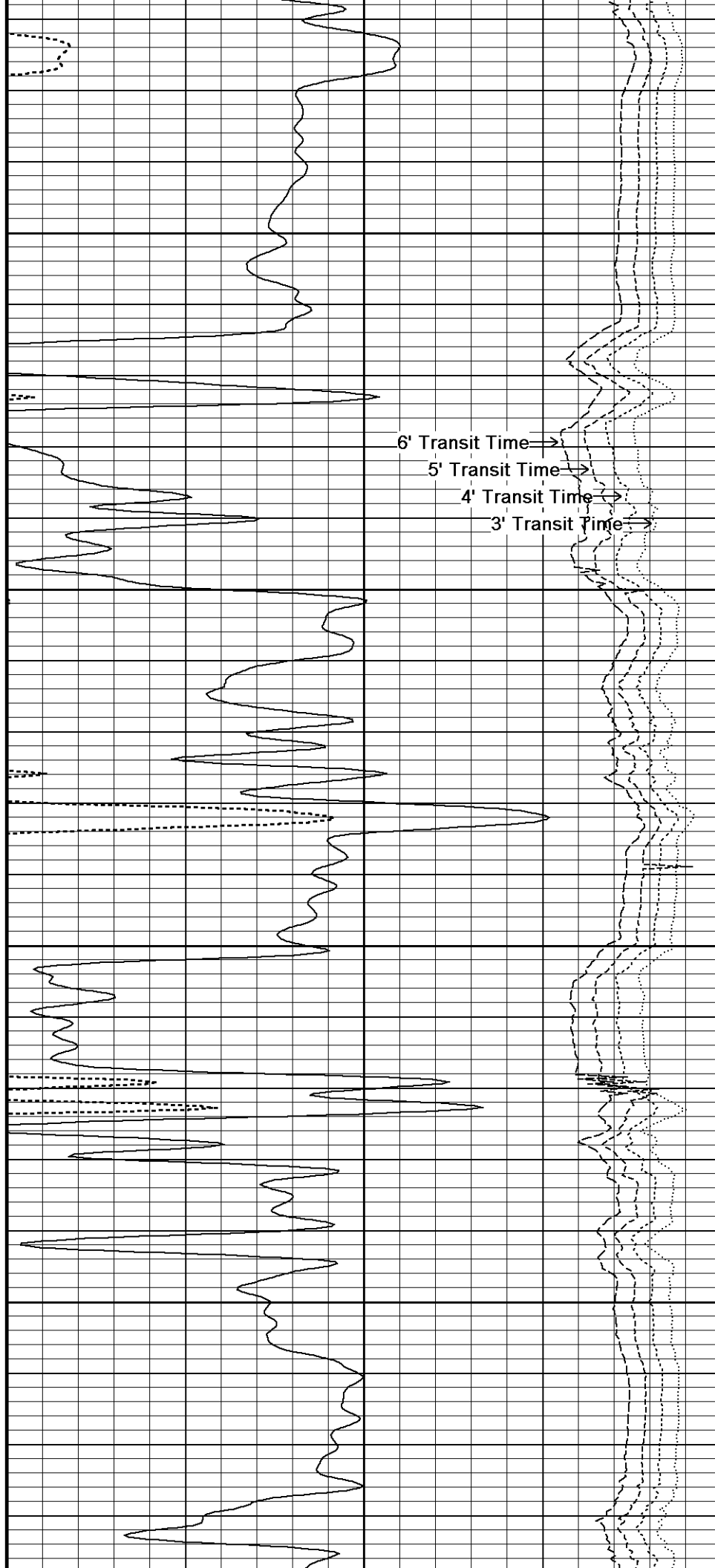
90°

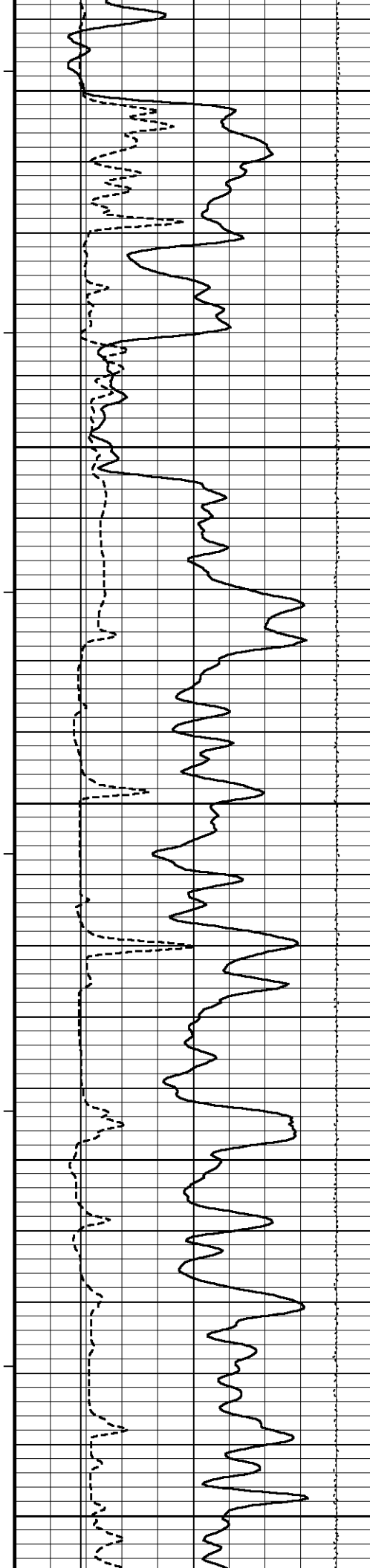
1300

91°

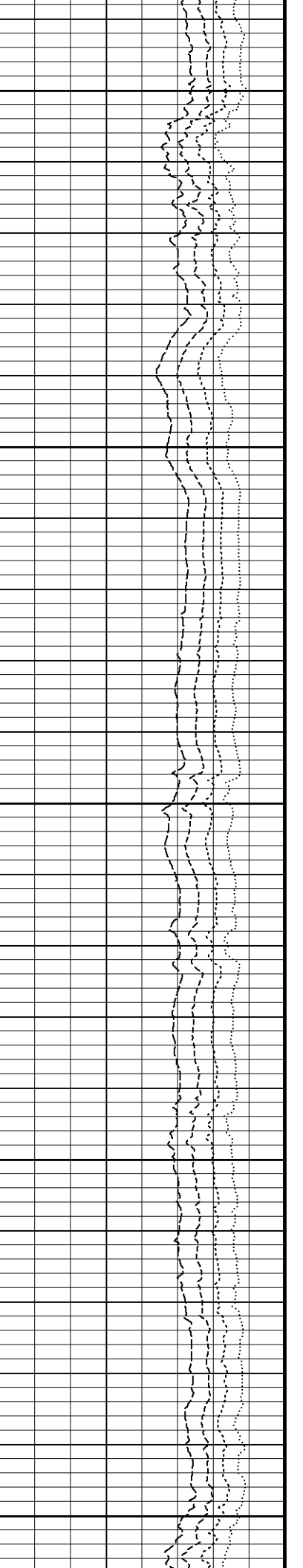
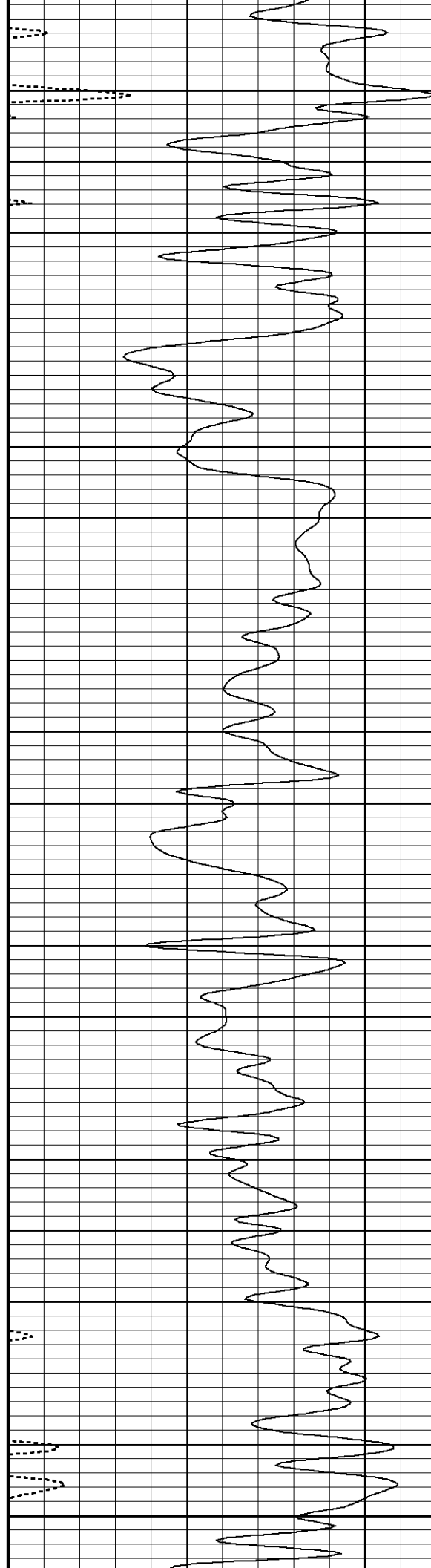
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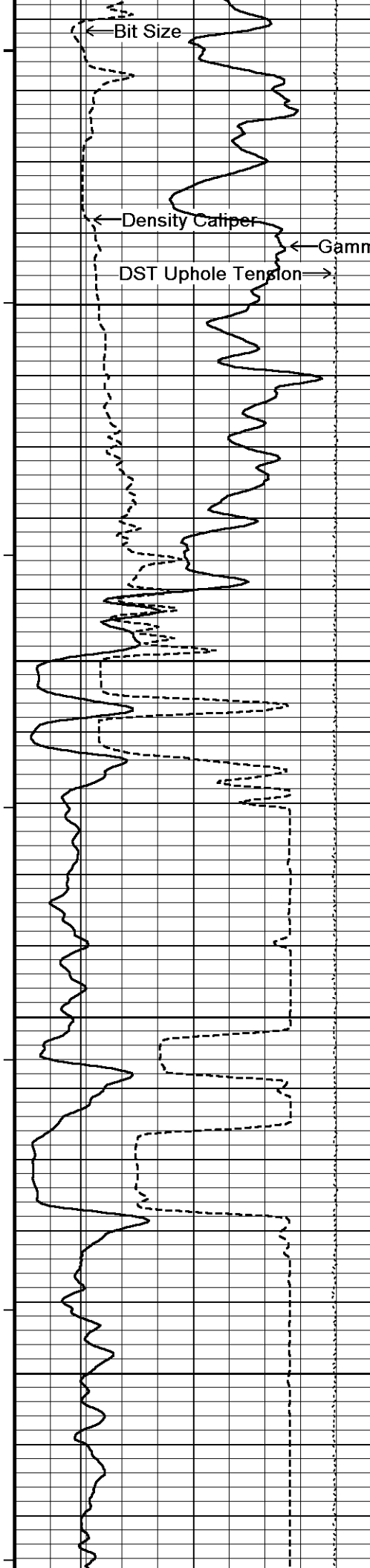
91°





91°
1400
91°
1450
92°
1500
92°
1550
92°
1600





93°

1650

93°

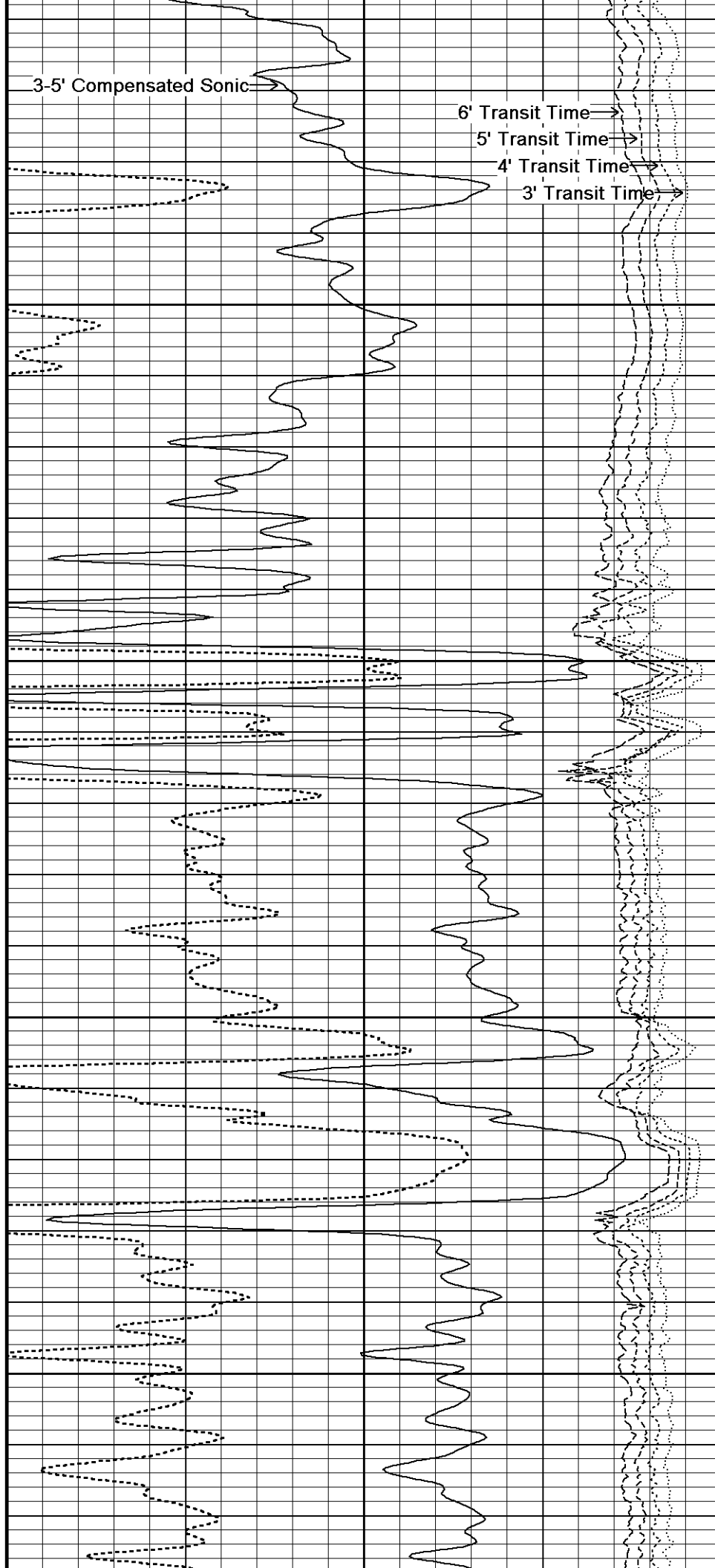
1700

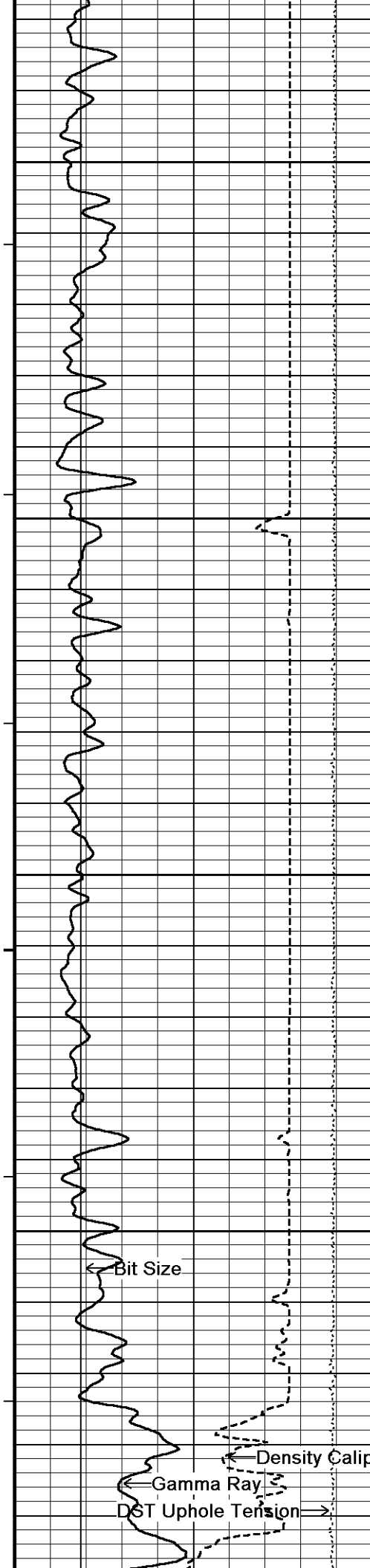
93°

1750

93°

1800





93°

1850

93°

1900

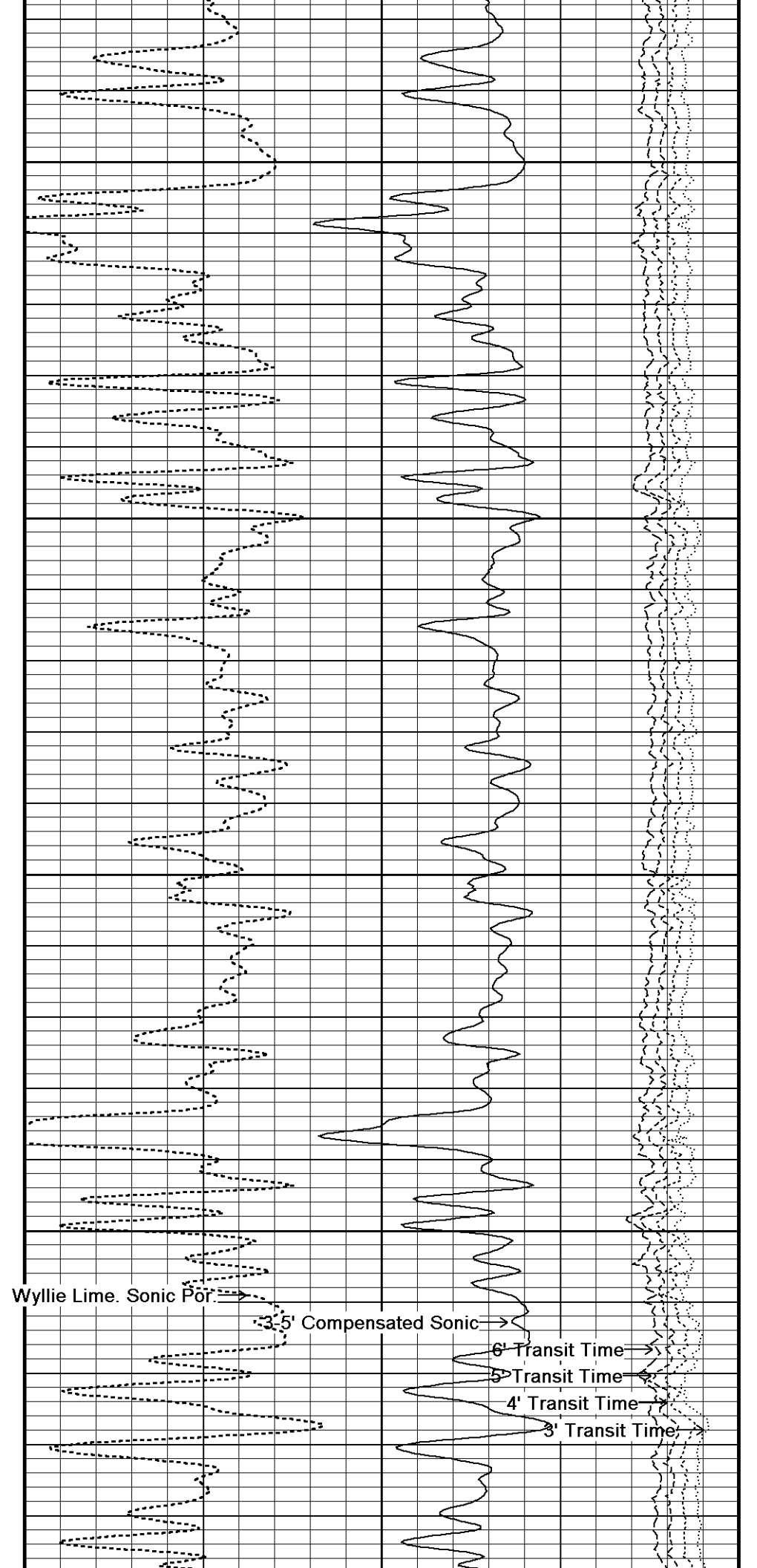
93°

1950

93°

2000

93°



Wyllie Lime. Sonic Por.

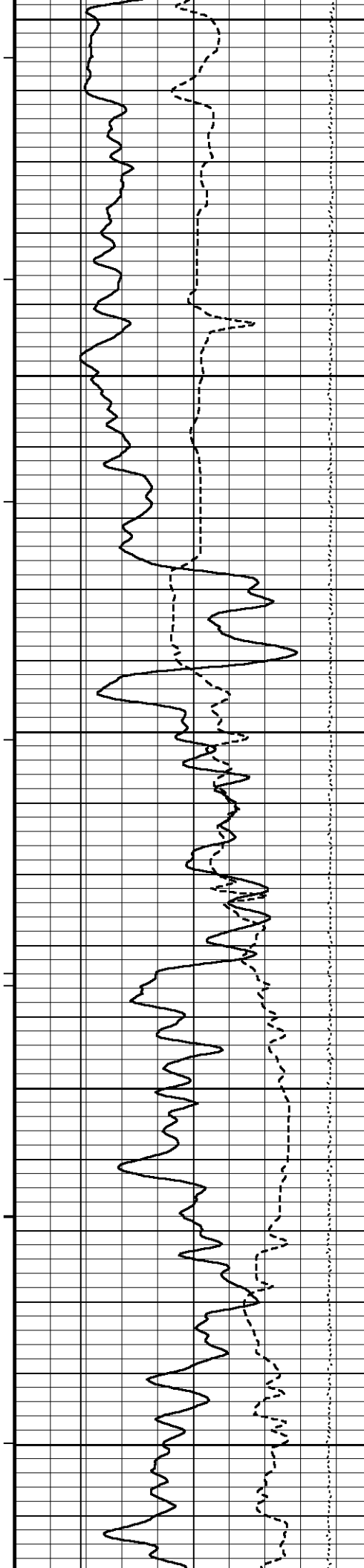
3-5' Compensated Sonic

6' Transit Time

5' Transit Time

4' Transit Time

3' Transit Time



2050

93°

2100

93°

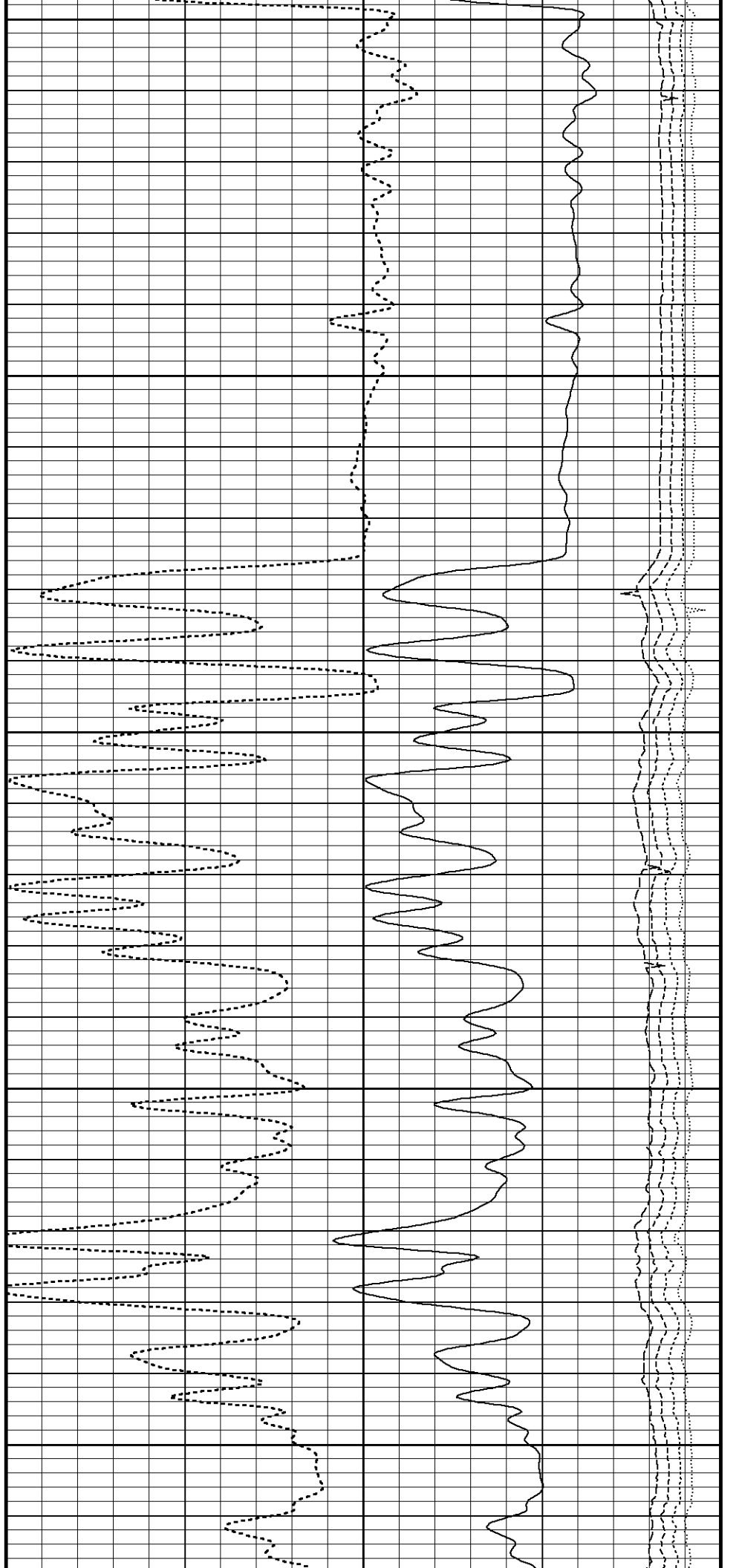
2150

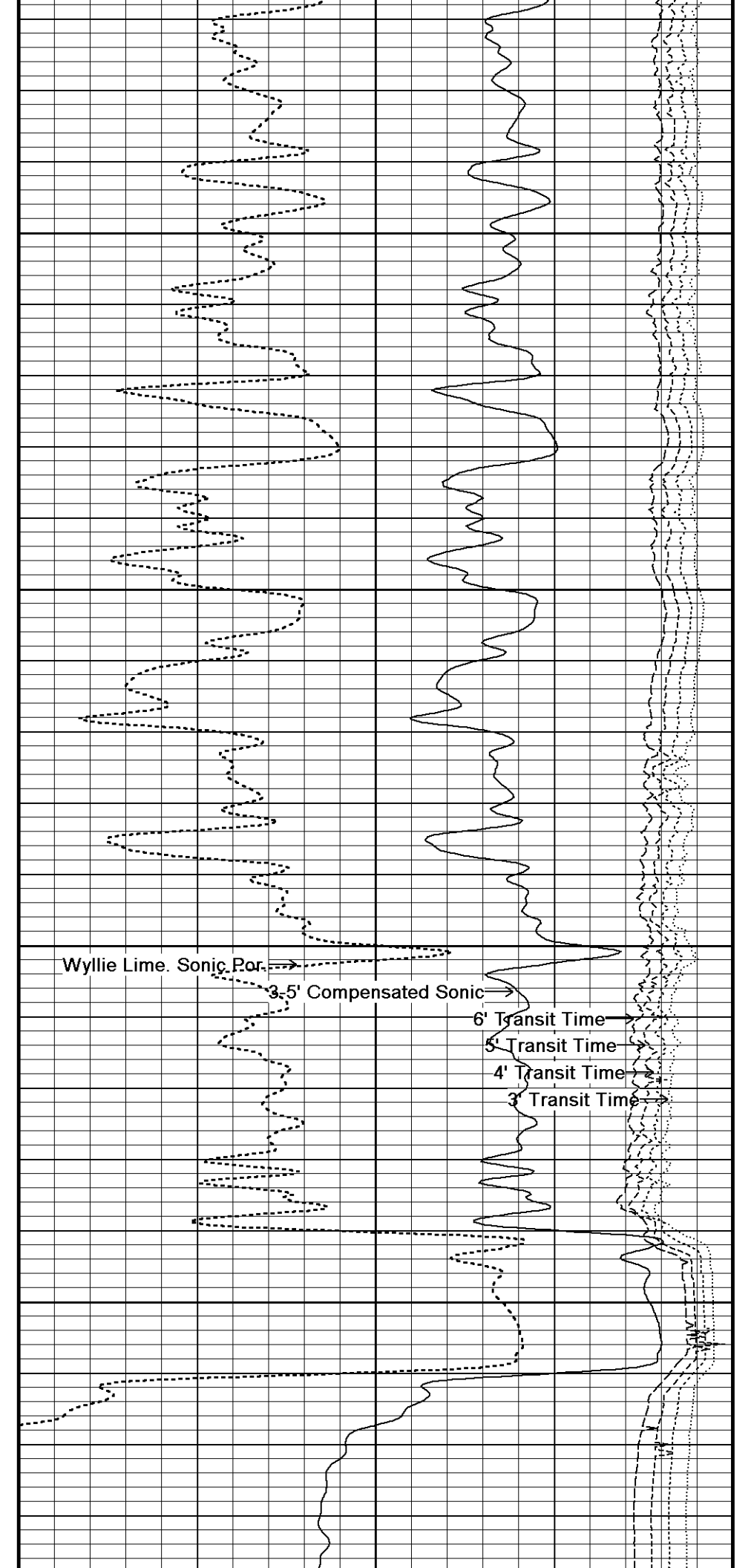
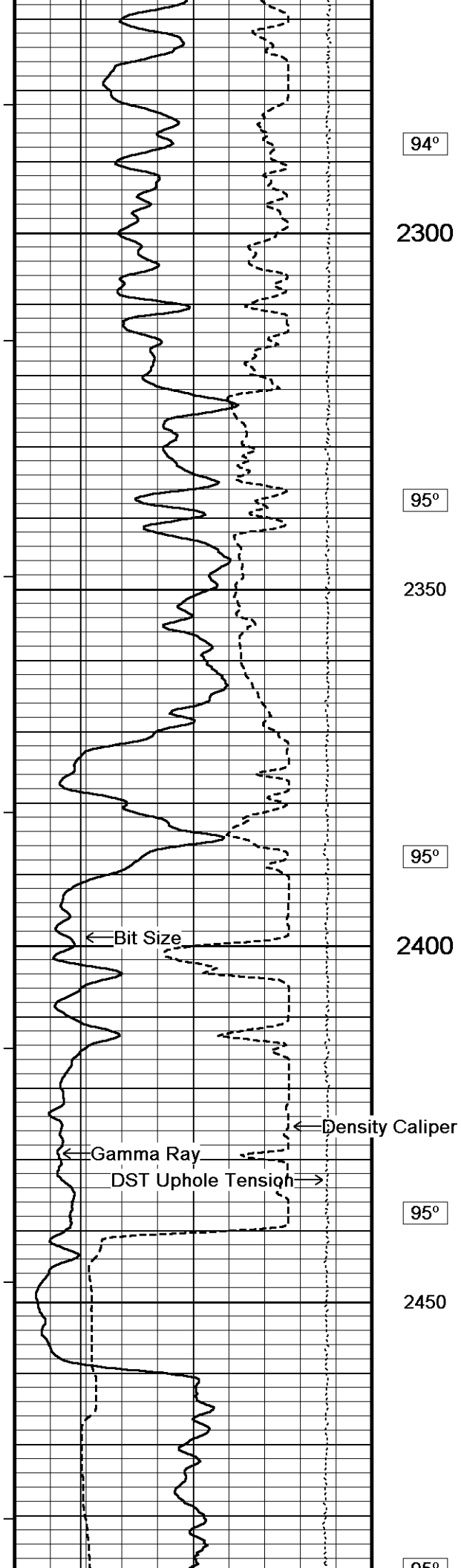
93°

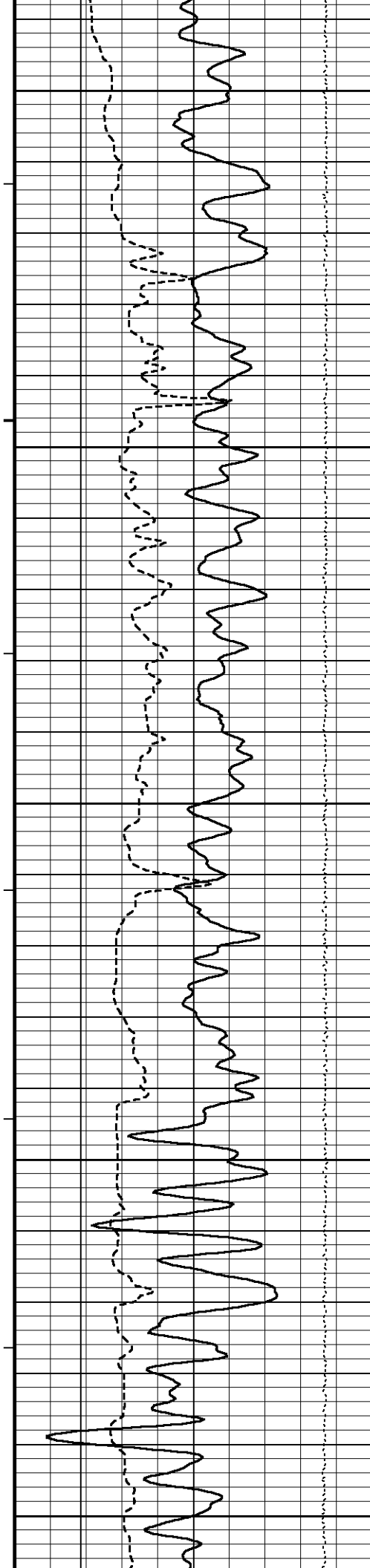
2200

94°

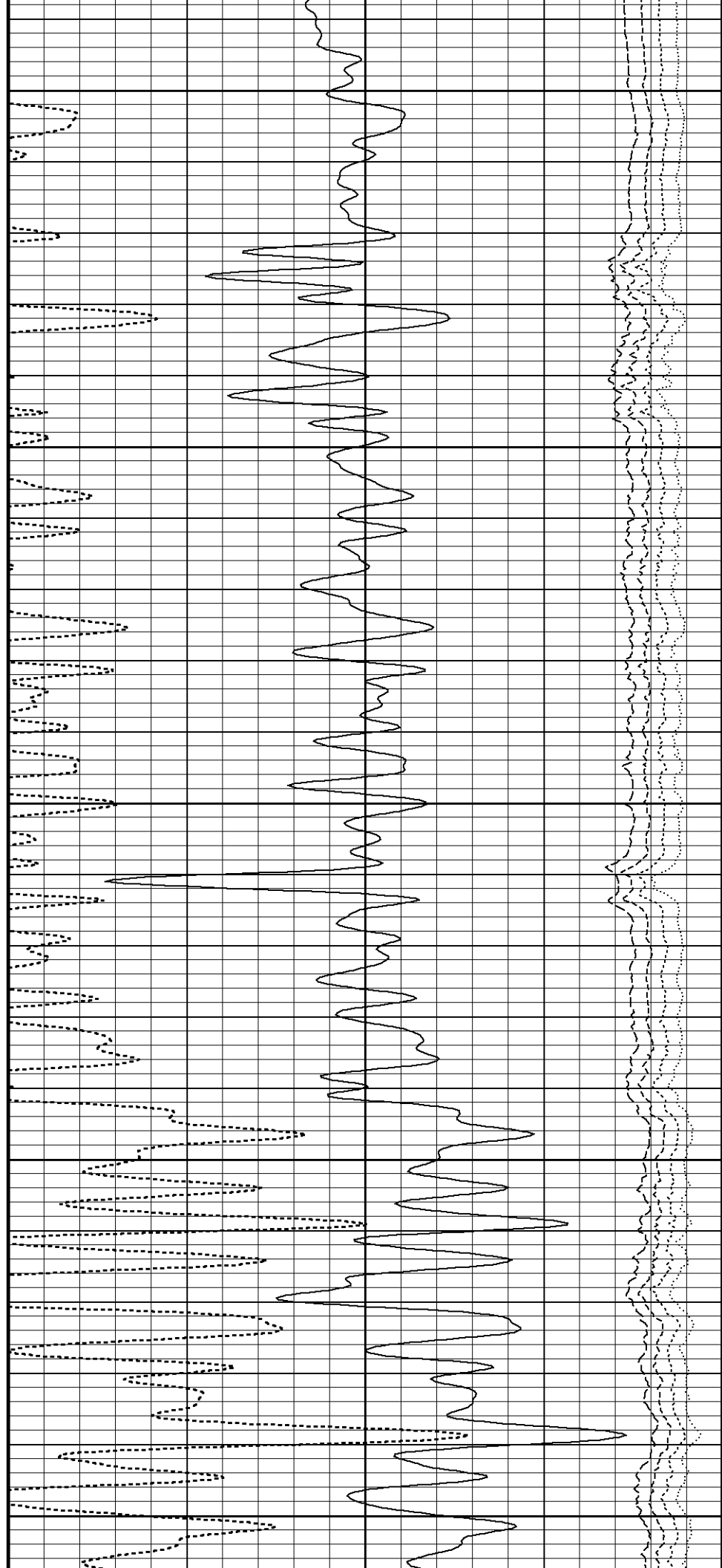
2250

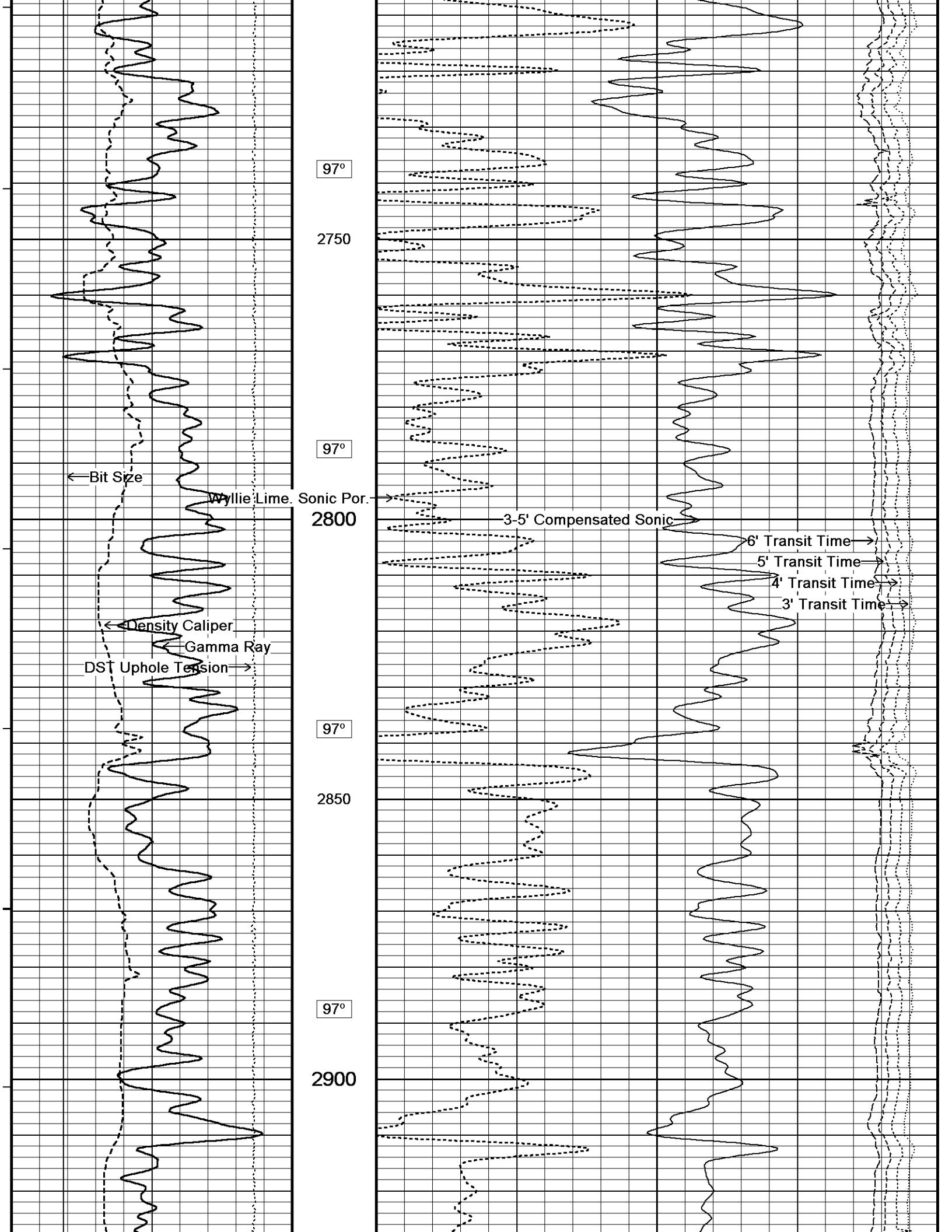


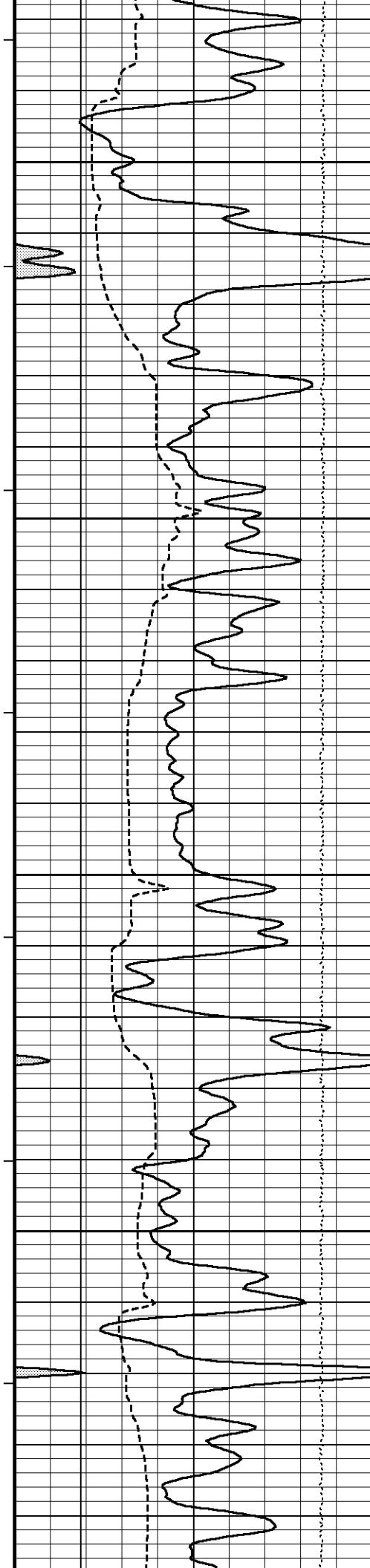




95°
2500
96°
2550
96°
2600
96°
2650
96°
2700







97°

2950

98°

3000

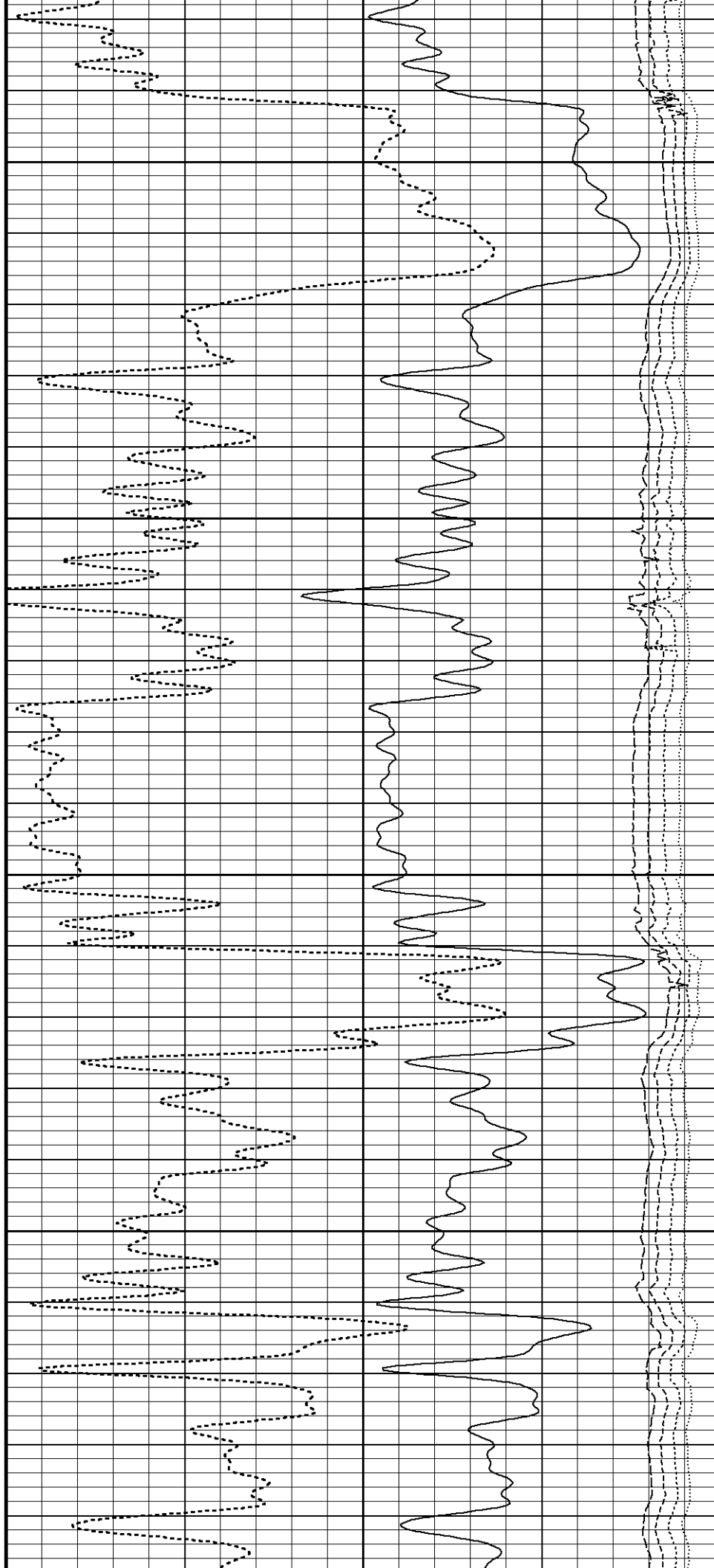
97°

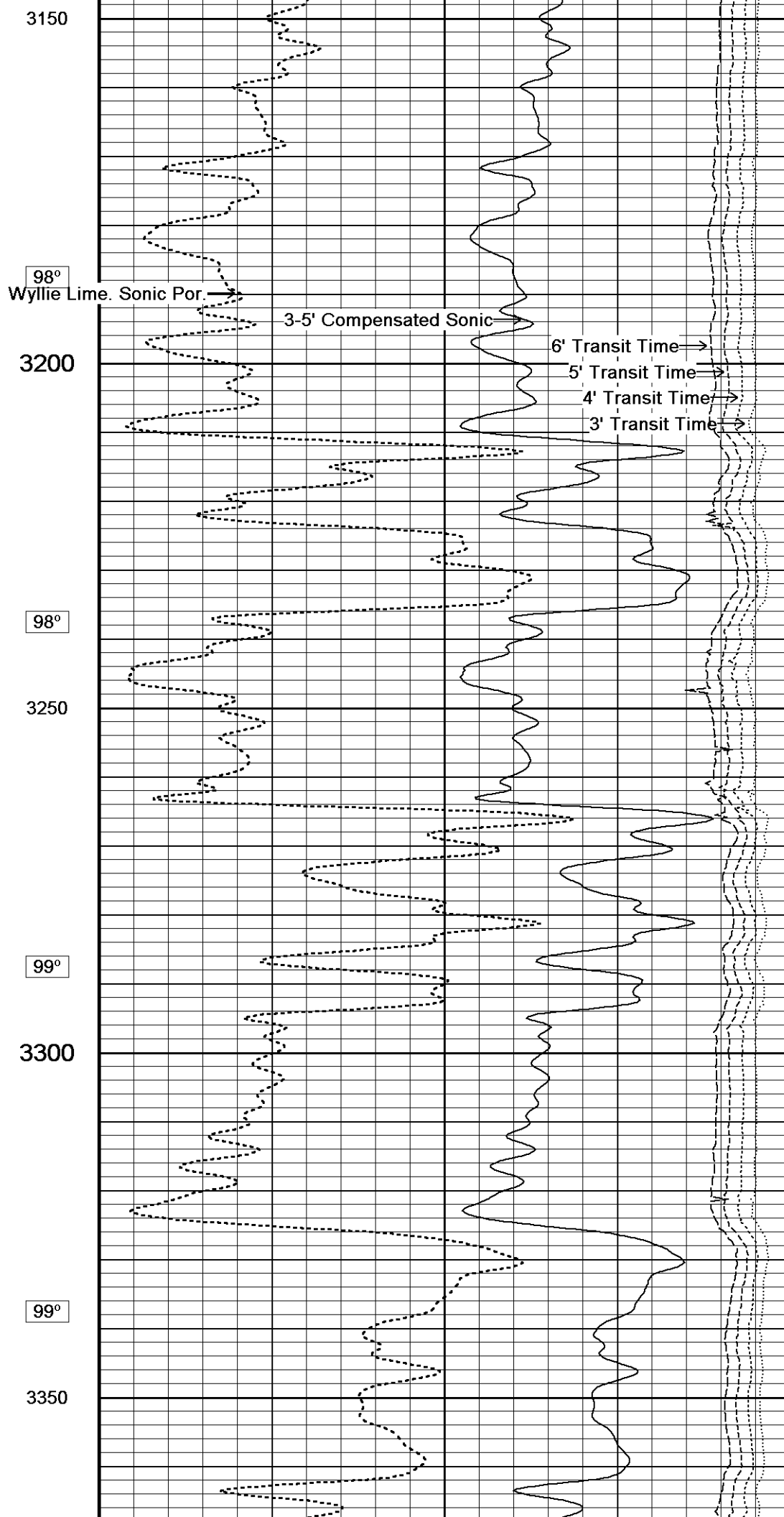
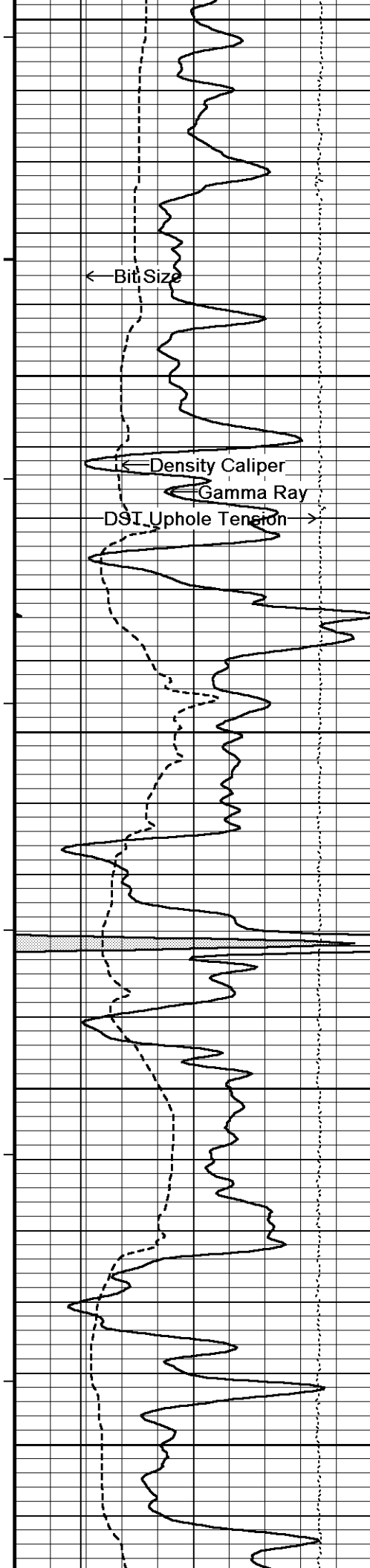
3050

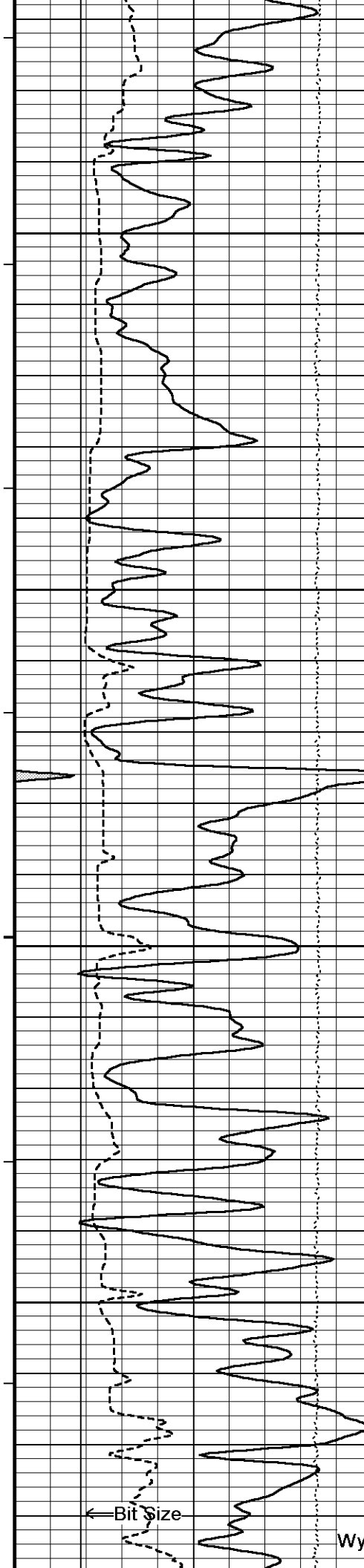
98°

3100

98°







99°

3400

99°

3450

99°

3500

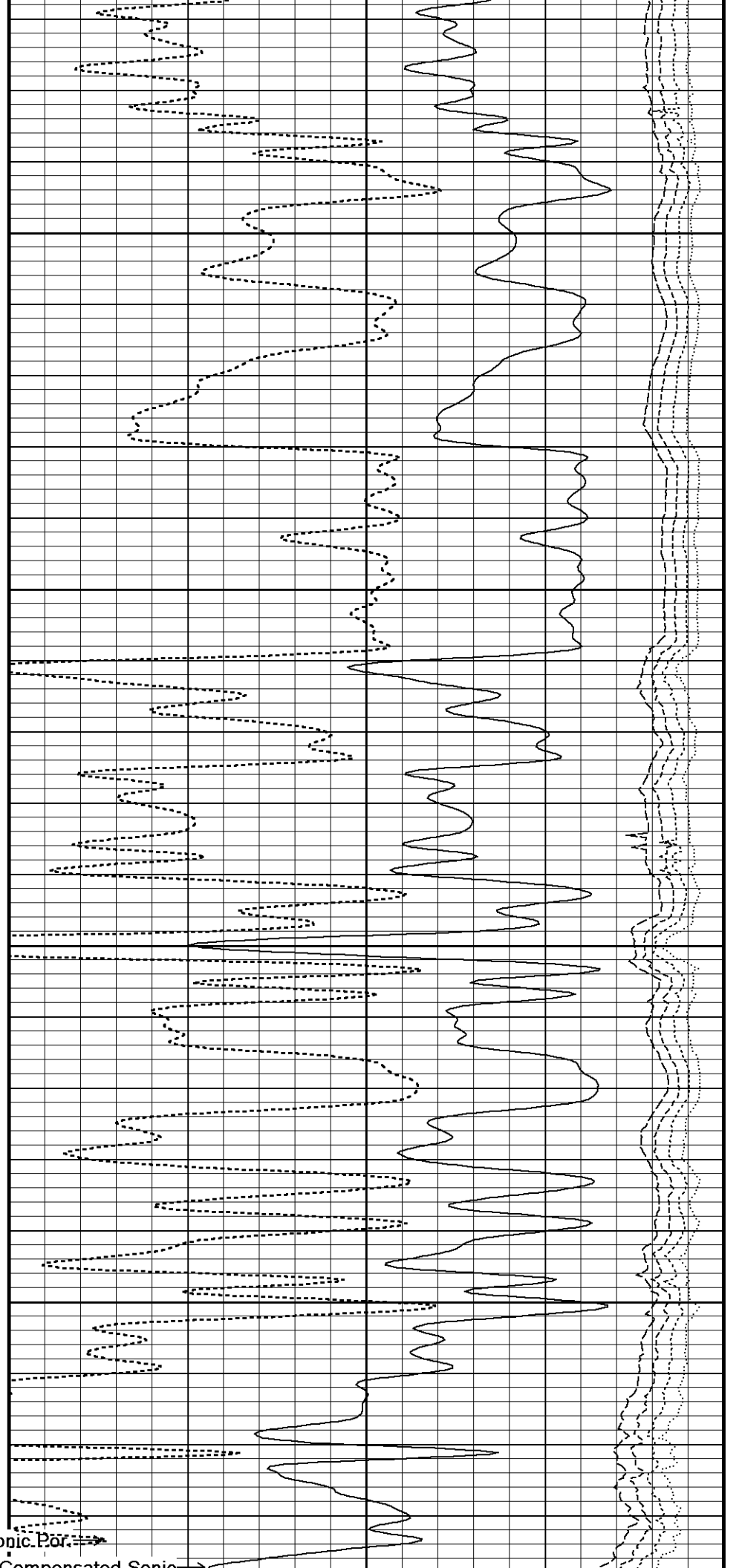
100°

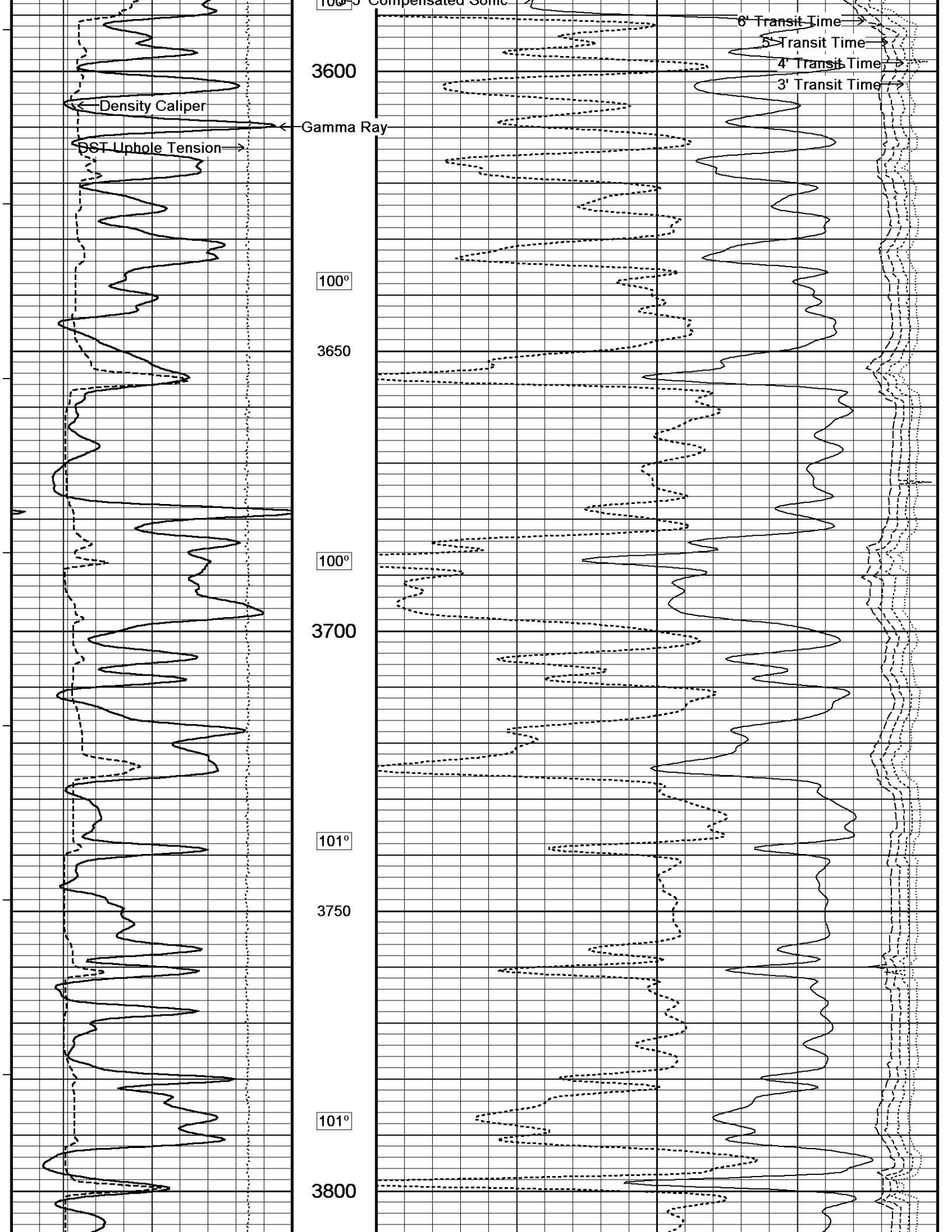
3550

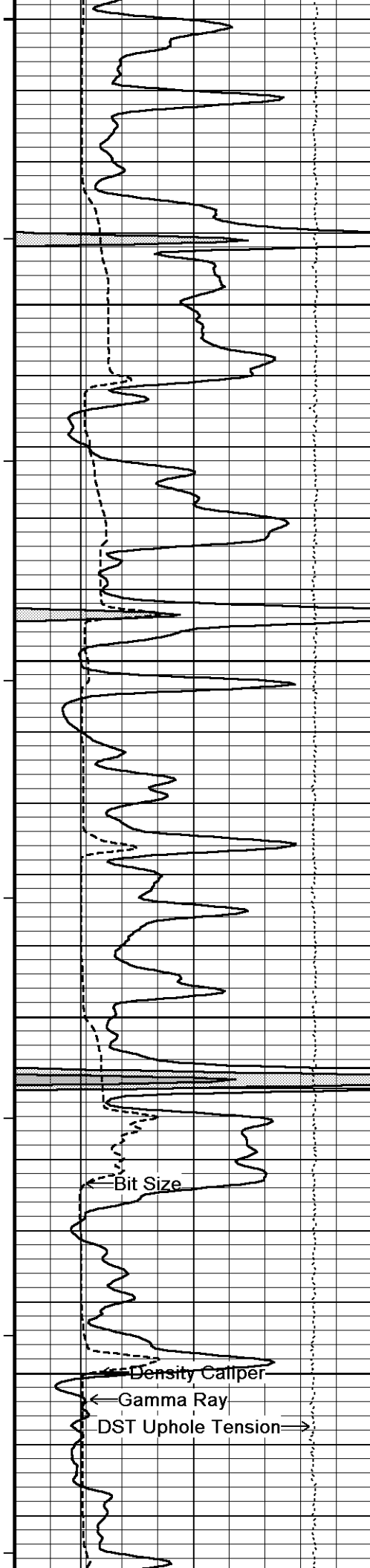
← Bit Size

Wyllie Lime. Sonic Por. →

100° 5' Compensated Sonic →







101°

3850

101°

3900

102°

3950

102°

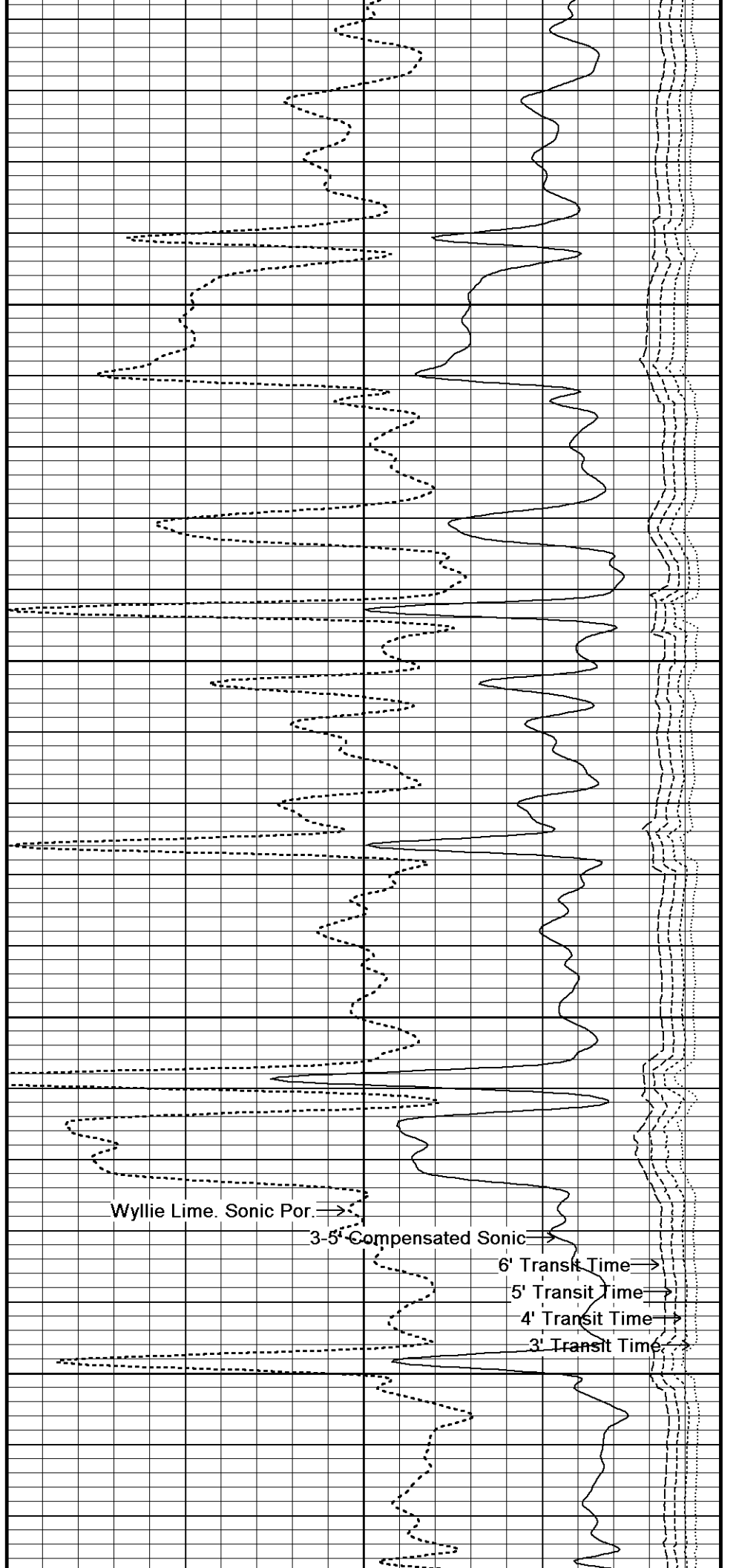
4000

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension



Wyllie Lime. Sonic Por.

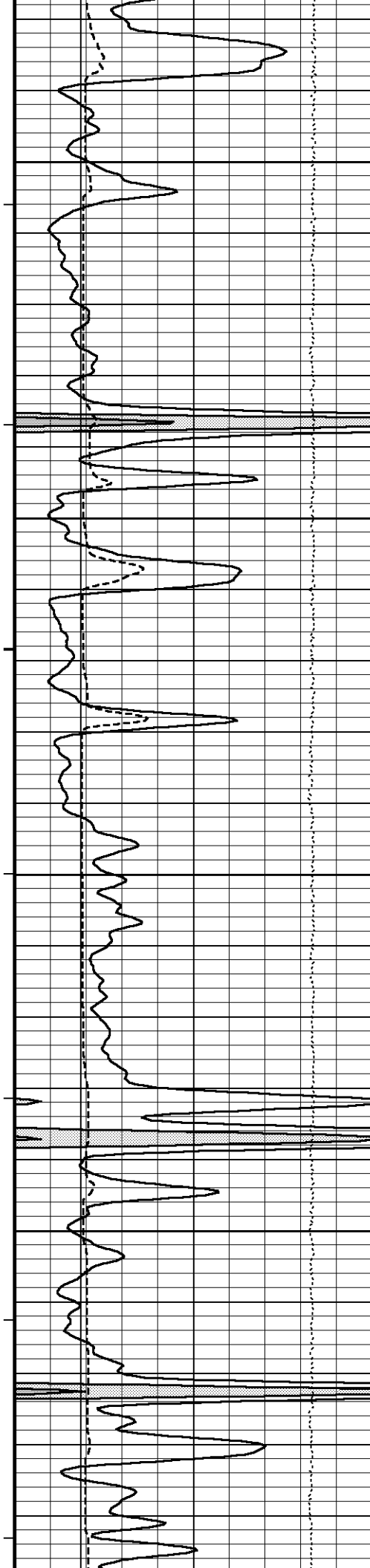
3-5' Compensated Sonic

6' Transit Time

5' Transit Time

4' Transit Time

3' Transit Time



102°

4050

103°

4100

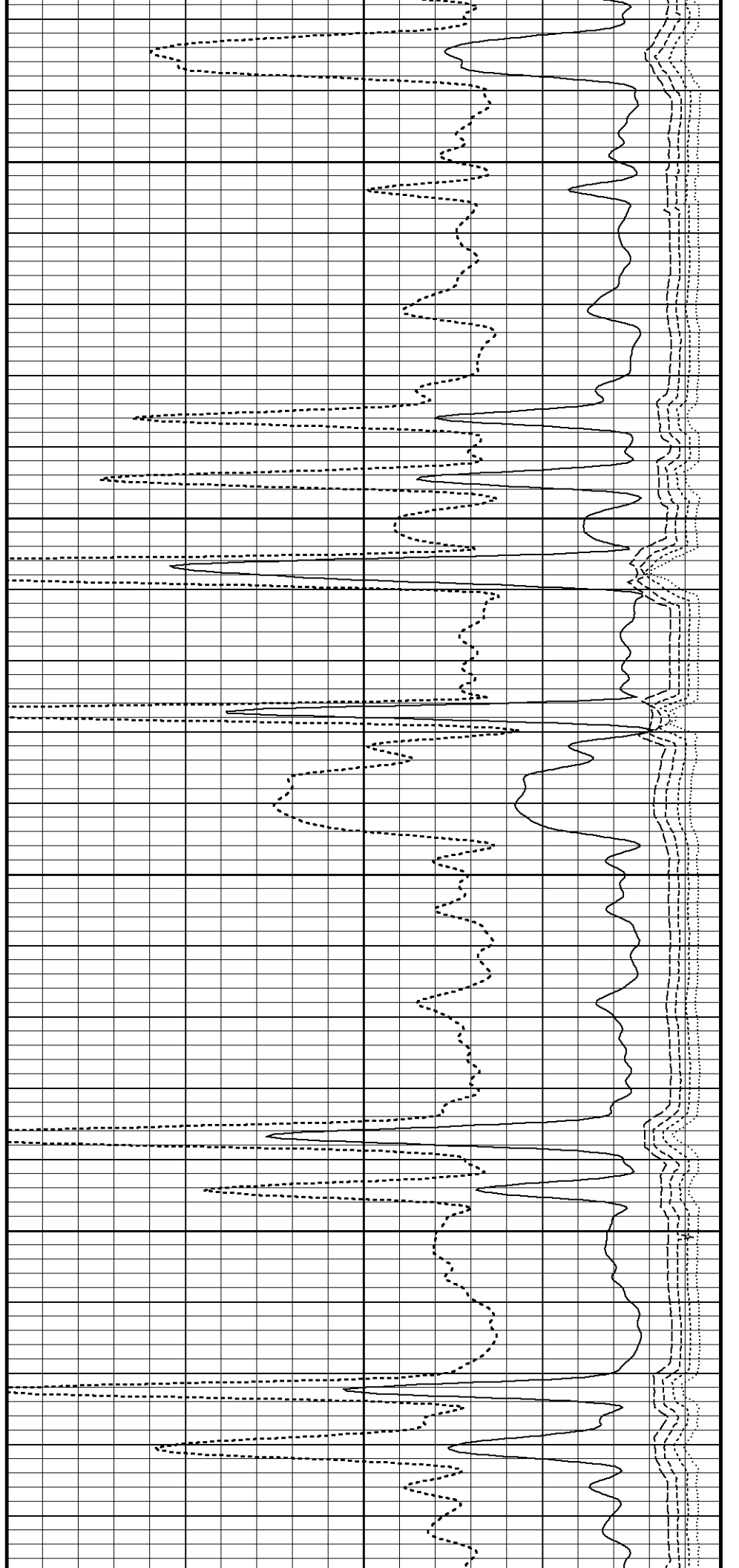
103°

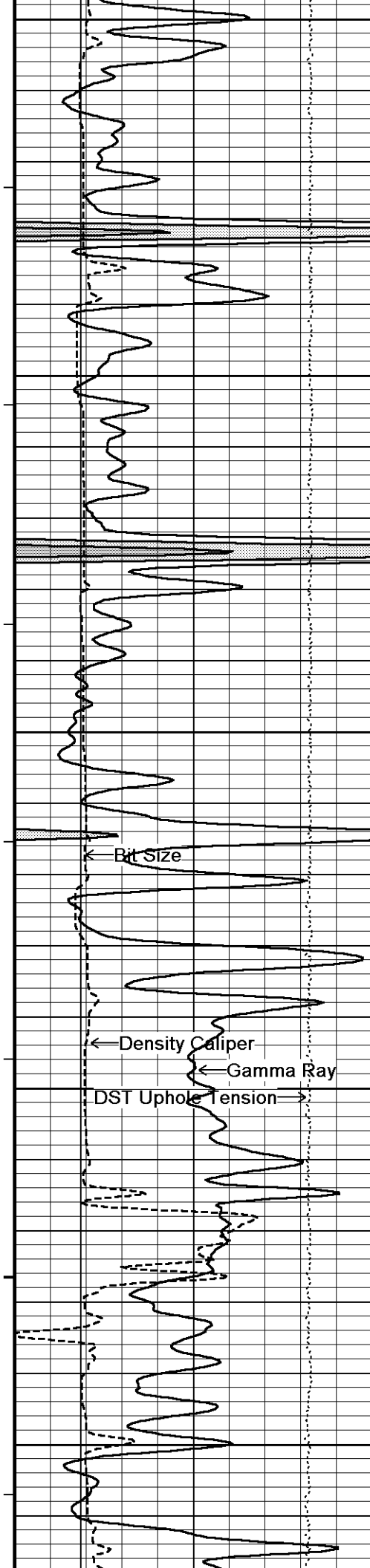
4150

103°

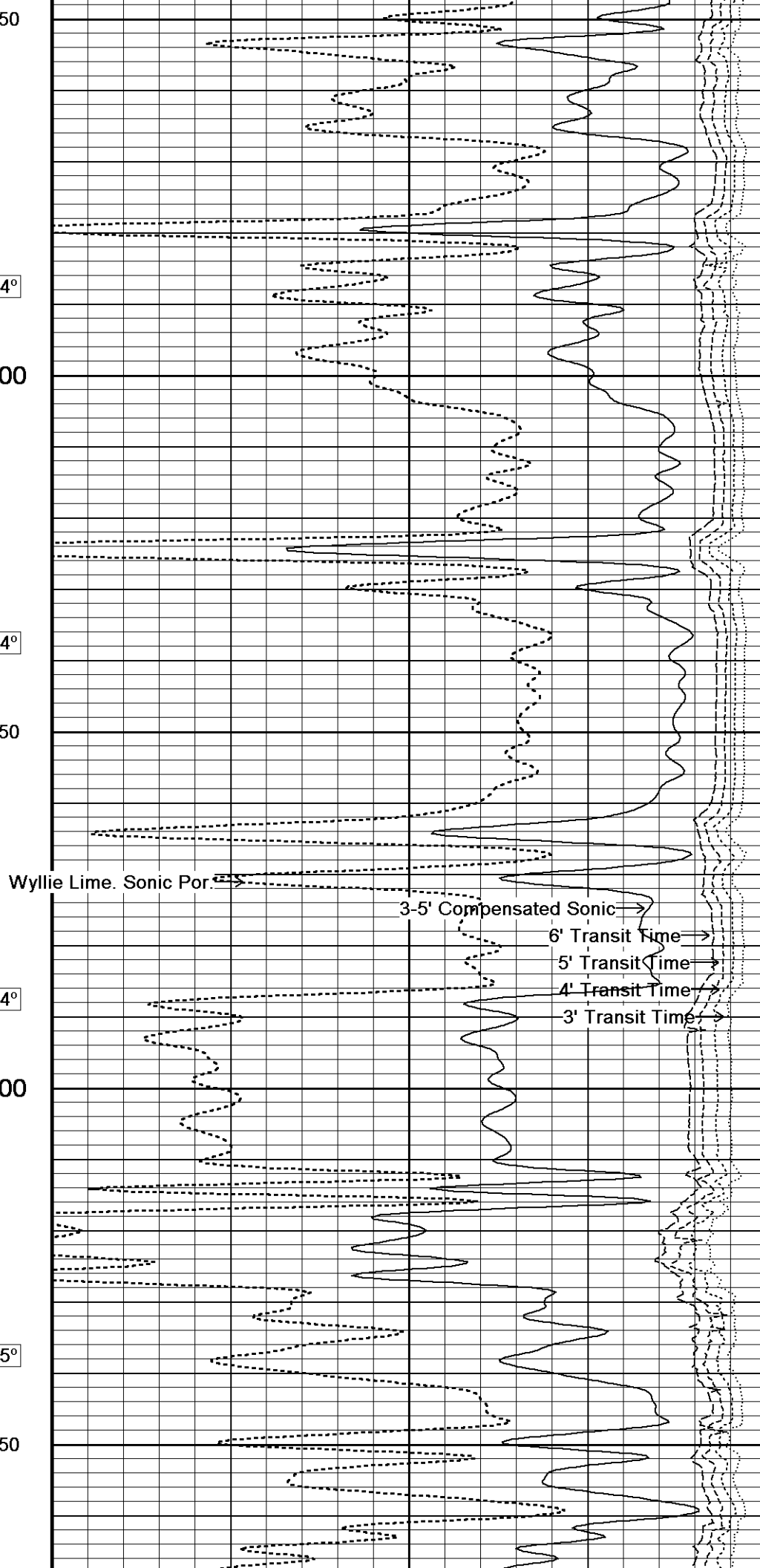
4200

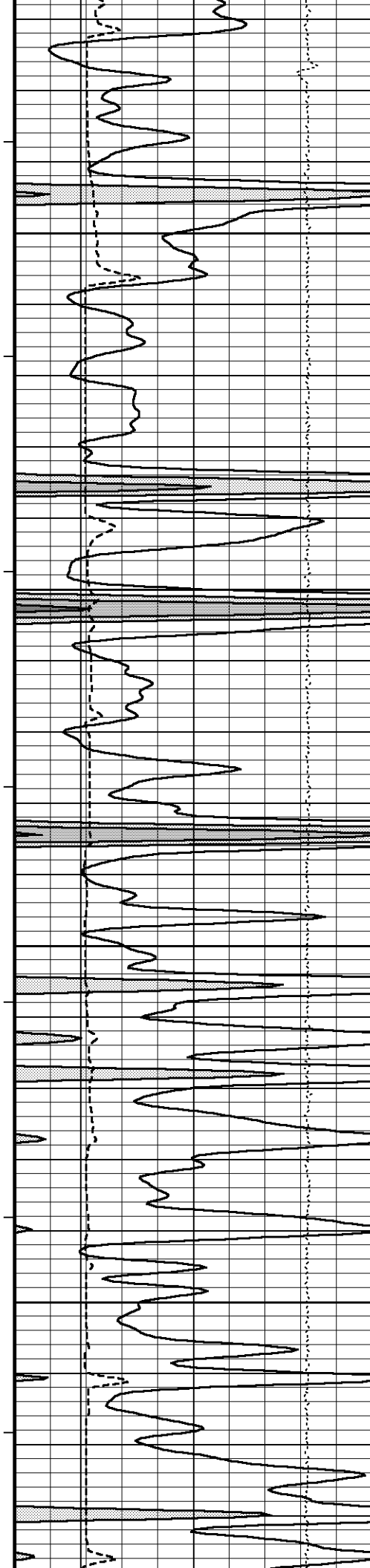
103°





4250
104°
4300
104°
4350
104°
4400
105°
4450





105°

4500

106°

4550

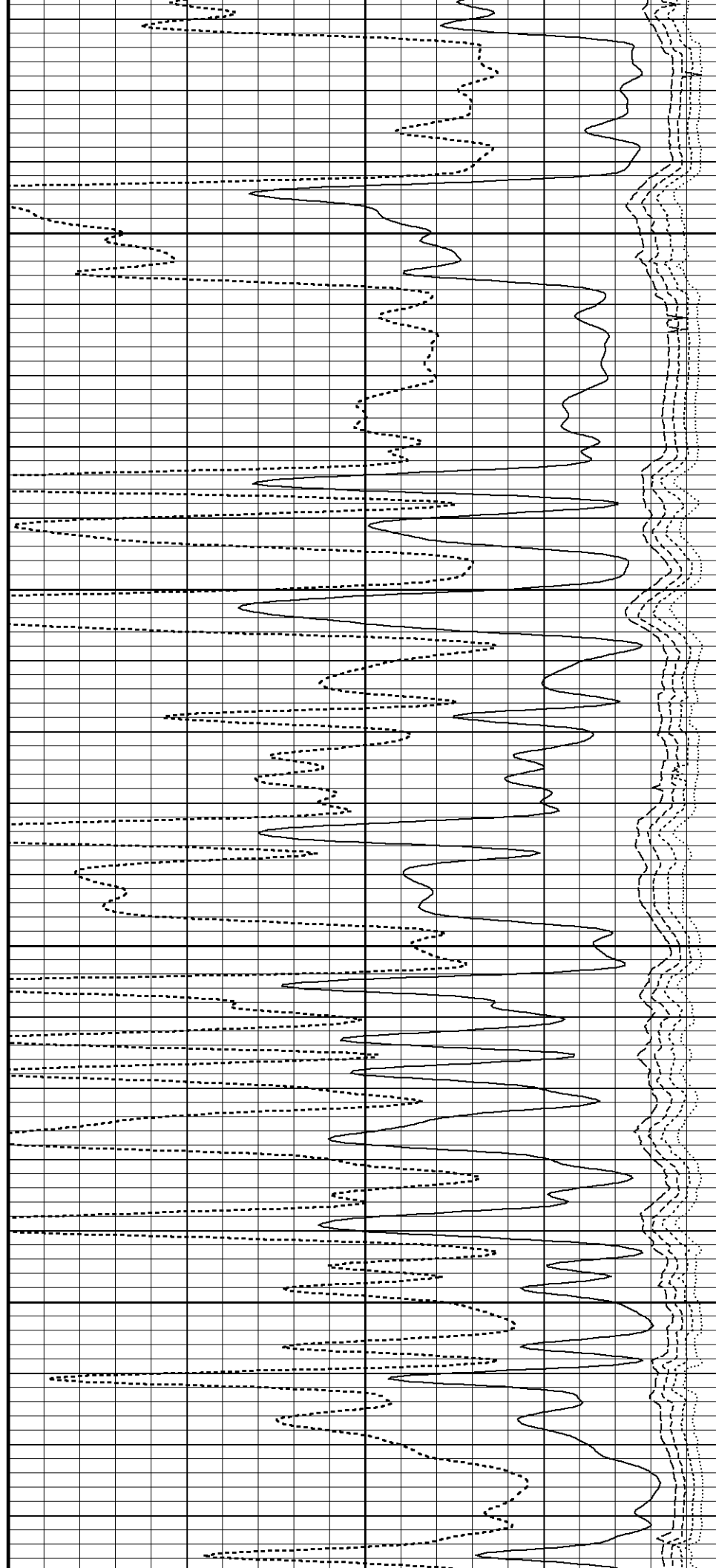
107°

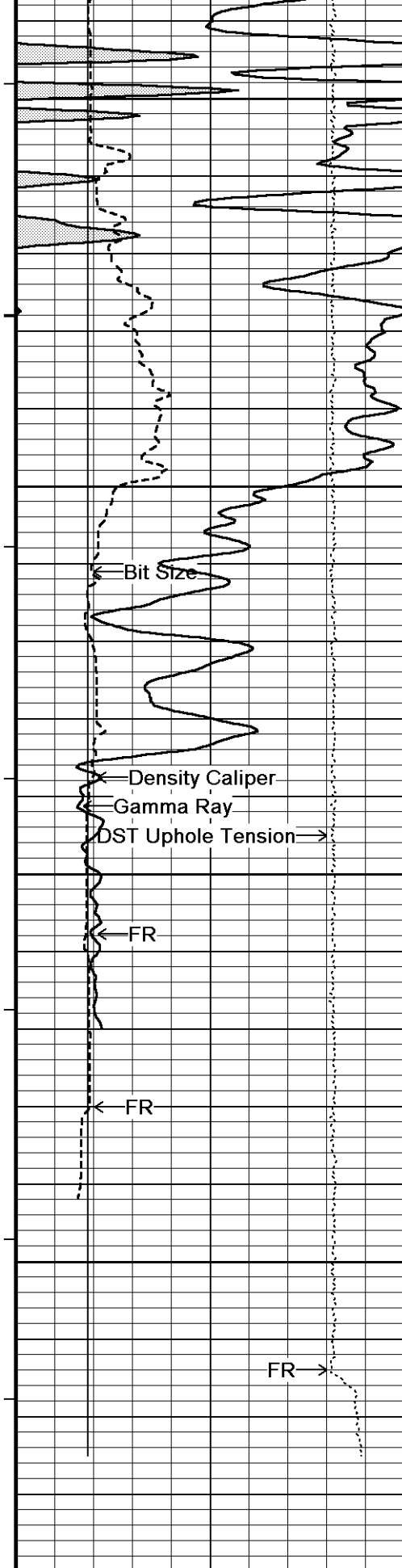
4600

108°

4650

109°





108

4700

109°

4750

109°

4800

109°

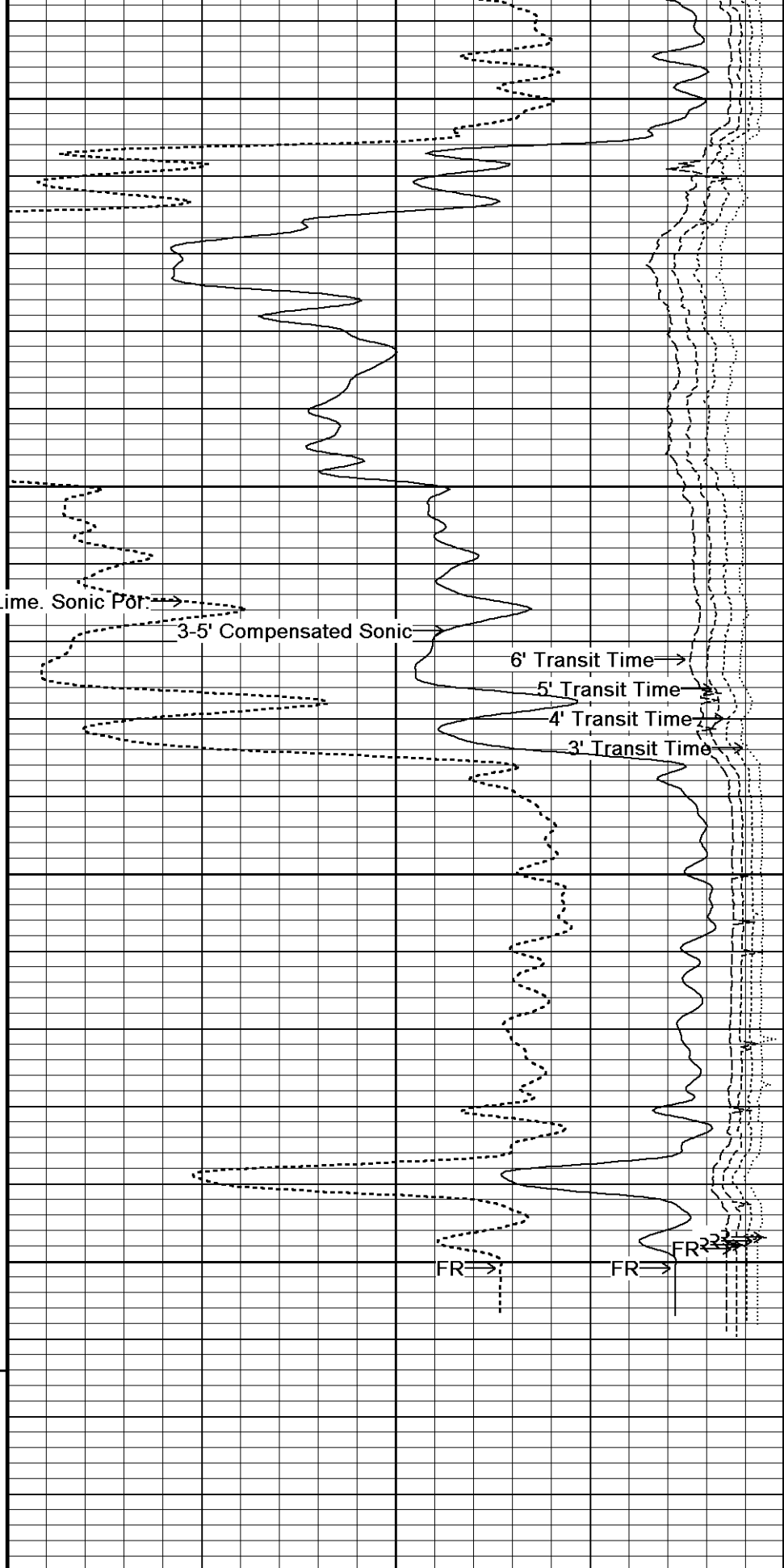
4850

TD

Depth
In
Feet

Timing Marks
every 60.0 sec

←



Wyllie Lime. Sonic Por. →

3-5' Compensated Sonic →

6' Transit Time →

5' Transit Time →

4' Transit Time →

3' Transit Time →

FR →

FR →

FR →

3-5' Compensated Sonic
microsec/foot

140

115

90

65

40

every 60.0 sec

Gamma Ray

API

75

225

300

Density Caliper

inches

11

Bit Size

inches

11

DST Uphole Tension

pounds

5000

0

Borehole
Temp in
deg F

Replay
Scale
1:240

Wyllie Lime. Sonic Por.

percent

30

20

10

0

-10

3' Transit Time

microseconds

1100

100

4' Transit Time

microseconds

1100

100

5' Transit Time

microseconds

1100

100

6' Transit Time

microseconds

1100

100

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 21-OCT-2013 03:22

Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Tucker 1-5\Shakespeare Tucker 1-5 Main.dta

Recorded on 21-OCT-2013 00:37

System Versions: Logged with 13.05.9583 Plotted with 13.05.9583



5 INCH MAIN



REPEAT SECTION



Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 21-OCT-2013 03:22

Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Tucker 1-5\Shakespeare Tucker 1-5 Repeat.dta

Recorded on 21-OCT-2013 00:19

System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

Timing Marks

every 60.0 sec

Gamma Ray

API

75

225

300

Density Caliper

inches

11

Depth
in
Feet

Borehole
Temp in
deg F

3-5' Compensated Sonic

microsec/foot

140

115

90

65

40

Wyllie Lime. Sonic Por.

percent

30

20

10

0

-10

3' Transit Time

microseconds

1100

100

4' Transit Time

microseconds

1100

100

Bit Size
inches

6 11 16

DST Uphole Tension
pounds

5000 0

Replay
Scale
1:240

5' Transit Time
microseconds

1100 100

6' Transit Time
microseconds

1100 100

4662

4700

108°

4750

Wyllie Lime. Sonic Pgr. →

3-5' Compensated Sonic →

6' Transit Time →

5' Transit Time →

4' Transit Time →

3' Transit Time →

107°

4800

← Bit Size

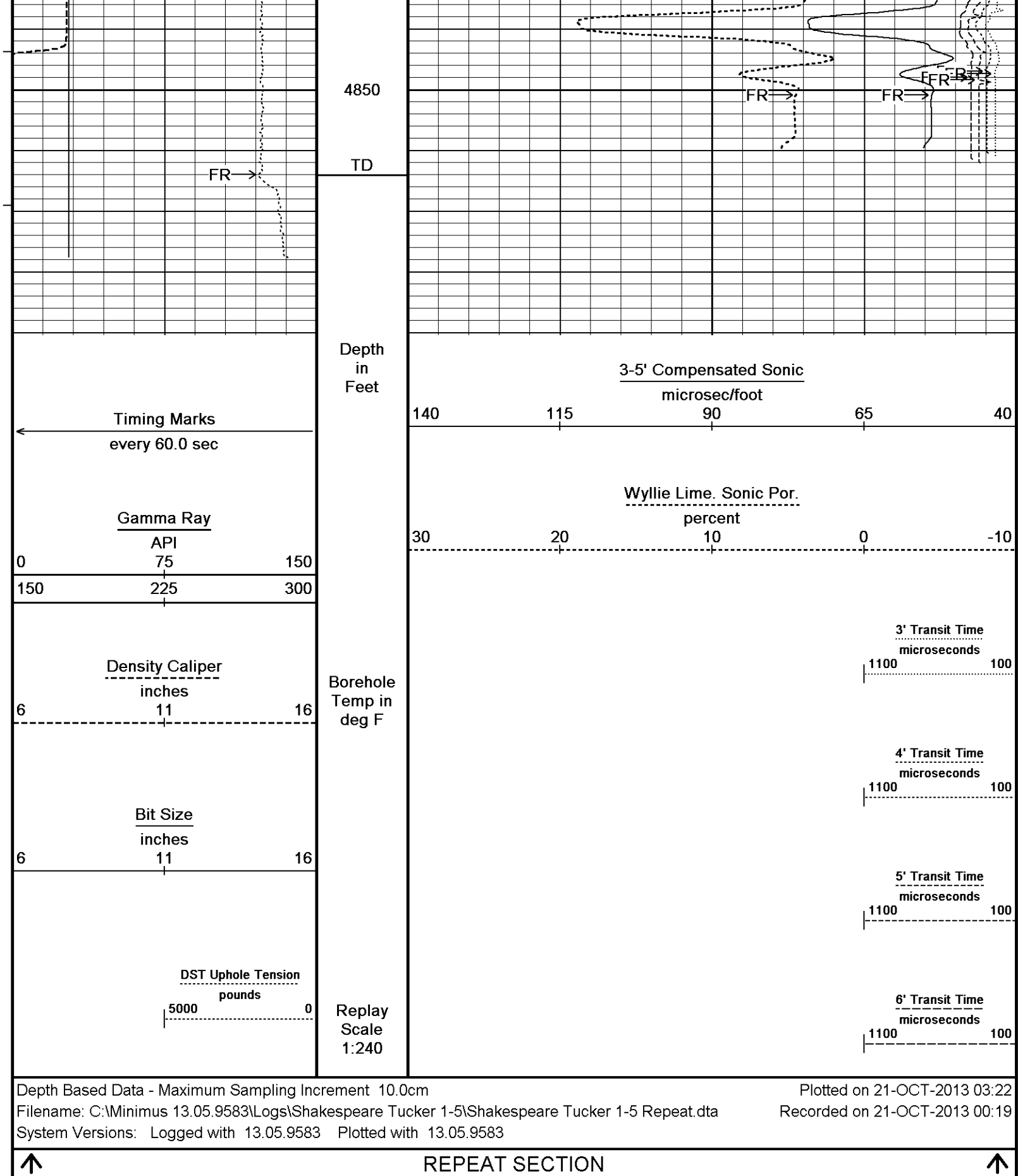
← Density Caliper

← Gamma Ray

→ DST Uphole Tension

← FR

← FR



BEFORE SURVEY CALIBRATION

C:\Minimus 13.05.9583\Logs\Shakespeare Tucker 1-5\Shakespeare Tucker 1-5 Main Detail.dta

General Constants All 000

Last Edited on 20-OCT-2013,21:58

General Parameters

Mud Resistivity	0.460	ohm-metres
Mud Resistivity Temperature	62.000	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	4.500	inches
Caliper for Differential Caliper	MMR Caliper	
Rwa Parameters		
Porosity used	Crossplot Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	
SW/APOR Tool Source	0.000	
Down-hole Tension Calibration SMS 0		
		Field Calibration on 20-OCT-2013 23:23
Reading No	Measured	Calibrated (lbs)
1	15564.19	1.00
2	17369.66	575.00
SP Calibration MCG-D.K 442		
		Field Calibration on 20-OCT-2013 18:26
	Measured	Calibrated (mV)
Reference 1	101.8	100.9
Reference 2	-99.5	-100.5
High Resolution Temperature Calibration MCG-D.K 442		
		Field Calibration on 20-OCT-2013,18:27
	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00
High Resolution Temperature Constants MCG-D.K 442		
		Last Edited on 20-OCT-2013,18:27
Pre-filter Length	11	
Gamma Calibration MCG-D.K 442		
		Field Calibration on 20-OCT-2013 18:30
	Measured	Calibrated (API)
Background	69	47
Calibrator (Gross)	1135	772
Calibrator (Net)	1067	725
Gamma Constants MCG-D.K 442		
		Last Edited on 20-OCT-2013,21:58
Gamma Calibrator Number	GRC38	
Mud Density	1.06	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%
Micro Laterolog Calibration MMR-A 11		
		Base Calibration on 31-DEC-1999 00:00
Base Calibration		Field Check on 31-DEC-1999 00:00
	Measured	Calibrated (ohm-m)
Ref 1	Ref 2	Ref 1
0.0	0.0	0.0
		Ref 2
		0.0
	Base Check (ohm-m)	Field Check (ohm-m)
	0.0	0.0
Micro Laterolog Constants MMR-A 11		
		Last Edited on
Pad Type	6 in Solid Nylon B23059	
Micro Laterolog K Factor	0.0128	
Standoff Offset	0.0000	inches

Mudcake Thickness Correction Constants

Mud Cake Source	Constant Value	
Mud Cake Thickness	0.4000	inches
Mud Cake Thickness Caliper		
Mud Cake Resistivity	0.1500	ohm-m
Mud Cake Resistivity Temp.	68.00	Deg F
Mud Cake Resistivity Source	Constant Value	
Temp. Source Rmc Correc.	MCG External Temperature	

Caliper Calibration MMR-A 11

Base Calibration on 01-OCT-2013 09:07

Field Calibration on 20-OCT-2013 18:23

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14311	5.98
2	17410	7.97
3	20706	9.86
4	24667	11.92
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.91	5.98

Micro Normal and Micro Inverse Calibration MMR-A 11

Base Calibration on 11-OCT-2013 11:00

Field Check on 20-OCT-2013 18:22

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.1	59.0	5.0	25.0
Micro Inverse	15.5	76.7	5.0	25.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	77.5	77.5
Micro Inverse	59.4	59.4

Micro Normal and Micro Inverse Constants MMR-A 11

Last Edited on 18-APR-2013,13:52

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	0.0000 inches

Neutron Calibration MDN-A.B 65

Base Calibration on 11-OCT-2013 14:23

Field Check on 20-OCT-2013 18:34

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3088	96	3714	110
	32.181		33.764	

Field Calibrator at Base

	Calibrated (cps)
Ratio	1674 2387
	0.701

Field Check

	Calibrated (cps)
Ratio	1677 2401
	0.695

Neutron Constants MDN-A.B 65

Last Edited on 20-OCT-2013,21:57

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	None
Formation Pressure	N/A kpsi

Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-B.J 352		Base Calibration on 11-OCT-2013 11:23
		Field Check on 20-OCT-2013 18:09
Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	965.0	126.8
Base Check		281.1
Field Check		281.1

FE Constants MFE-B.J 352		Last Edited on 20-OCT-2013,21:57
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 20-OCT-2013,21:57			
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 20-OCT-2013,18:08
	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 20-OCT-2013,18:08
Pre-filter Length	11	

Induction Calibration MAI-A.A 45				Base Calibration on 21-MAY-2013,16:47	
				Field Check on 20-OCT-2013 18:08	
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		0.0		Deg F	
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1			18.8	3850.9	
2			31.8	3628.8	
3			28.7	3048.9	
4			18.4	2078.8	
Deep			16.1	1910.9	
Medium			42.6	4059.9	
Shallow			49.8	5482.3	
Array Temperature				66.3	Deg F

Induction Constants MAI-A.A 45			Last Edited on 20-OCT-2013,21:57
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	

Photo Density Calibration MPD-B 31

Base Calibration on 11-OCT-2013 13:32

Field Check on 20-OCT-2013 18:14

Density Calibration

Base Calibration

Measured

Calibrated (sdu)

Near

Far

Near

Far

Reference 1

44679

22866

59556

30836

Reference 2

18345

1888

24941

2541

Field Check at Base

669.8

824.9

Field Check

668.7

823.6

PE Calibration

Base Calibration

Measured

Calibrated

WS

WH

Ratio

Ratio

Background

125

594

Reference 1

18704

44569

0.422

0.371

Reference 2

5436

18261

0.301

0.272

Field Check at Base

124.9

594.3

Field Check

124.5

593.5

Density Constants MPD-B 31

Last Edited on 20-OCT-2013,21:57

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	1.06	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	

Caliper Calibration MPD-B 31

Base Calibration on 11-OCT-2013 13:50

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18160	3.99
2	27038	5.98
3	35584	7.97
4	43976	9.86
5	53328	11.92
6	N/A	N/A

Field Calibration

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

DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Logs\Shakespeare Tucker 1-5\Shakespeare Tucker 1-5 Main Detail.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-D.K 442 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-Resistivity

MMR-A 11 LG: 8.59 ft WT: 81.6 lb OD: 4.88 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

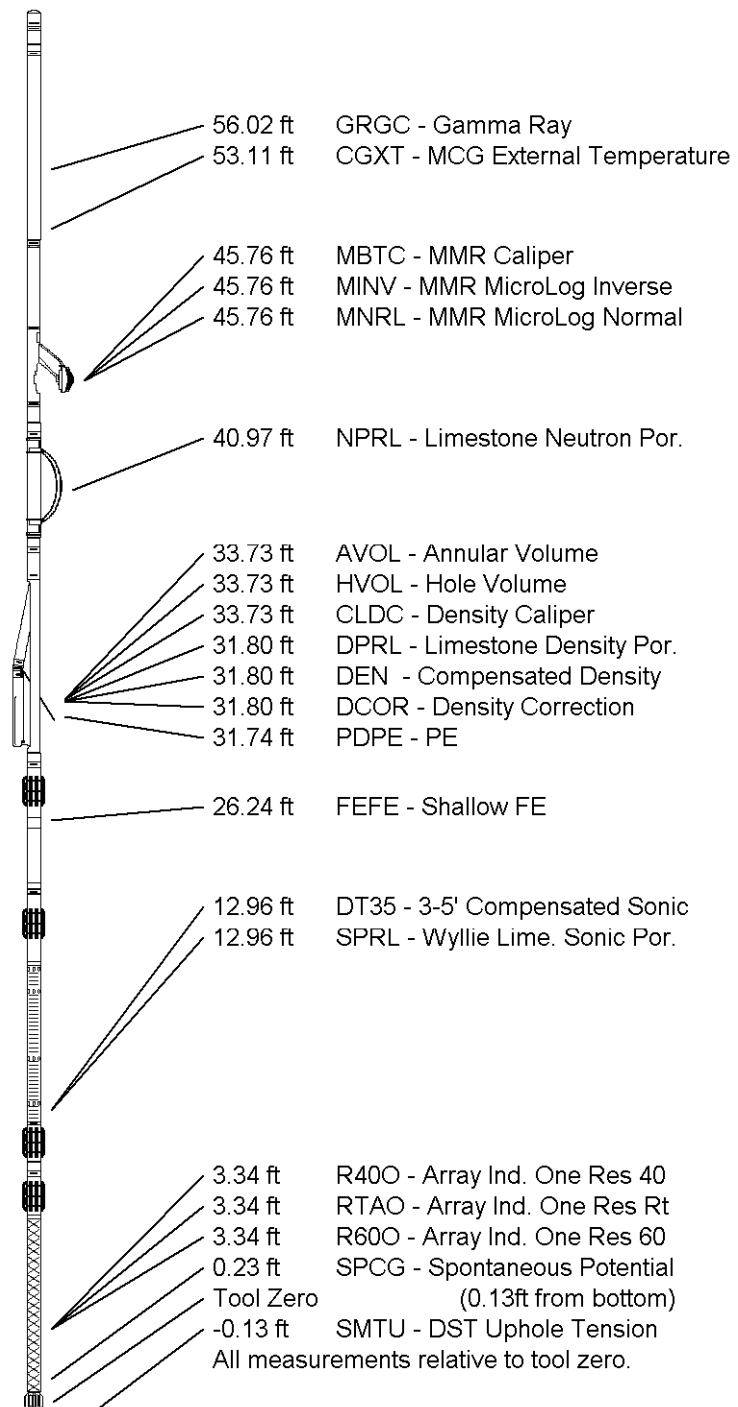
Compact Sonic

MSS-A.A 126 LG: 12.52 ft WT: 72.8 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: 62.88 ft Weight: 471.8 lb



WELL	TUCKER 1-5
FIELD	WILDCAT
PROVINCE/COUNTY	SCOTT
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	3112.00	feet	First Reading	4851.04	feet
Elevation Drill Floor	3110.00	feet	Depth Driller	4865.00	feet
Elevation Ground Level	3102.00	feet	Depth Logger	4864.00	feet



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