



Weatherford[®]

**COMPENSATED SONIC
WITH INTEGRATED TRANSIT TIME
LOG**

COMPANY **SHAKESPEARE OIL COMPANY**
 WELL **NIGHTINGALE #1-28**
 FIELD **WILDCAT**
 PROVINCE/COUNTY **SCOTT**
 COUNTRY/STATE **UNITED STATES / KANSAS**
 LOCATION **985' FNL & 335' FEL
NW SE NE NE**

SEC 28 TWP 16W RGE 34 Other Services
 API Number 15-171-20930 MA/MPD/MFN
 Permit Number MML
 Permanent Datum G.L., Elevation feet
 Log Measured From KB
 Drilling Measured From K.B. @ 10 FEET

Date	30-MAR-2013	Elevations:	KB 3140.00 DF 3138.00 GL 3130.00
Run Number	ONE		
Service Order	3539880		
Depth Driller	4875.00	feet	
Depth Logger	4873.00	feet	
First Reading	4860.00	feet	
Last Reading	263.00	feet	
Casing Driller	265.00	feet	
Casing Logger	263.00	inches	
Bit Size	7.880		
Hole Fluid Type	CHEMICAL	lb/USg	
Density / Viscosity	9.30 lb/USg	59.00 CP	
PH / Fluid Loss	10.00	10.00	
Sample Source	MUDPIT		
Rm @ Measured Temp	0.49 @ 72.0	ohm-m	
Rmf @ Measured Temp	0.39 @ 72.0	ohm-m	
Rmc @ Measured Temp	0.59 @ 72.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.32 @ 109.0	ohm-m	
Time Since Circulation	4 HOURS		
Max Recorded Temp	109.00	deg F	
Equipment / Base	13057 LIB		
Recorded By	W. STAMBAUGH		J. LAPOINT
Witnessed By	TIM PRIEST		
JOB #	LB13-084		

BOREHOLE RECORD		Last Edited: 30-MAR-2013 10:38	
Bit Size inches	Depth From feet	Depth To feet	
7.875	263.00	4875.00	
CASING RECORD			
Type	Size inches	Depth From feet	Shoe Depth feet
SURFACE	8.625	0.00	263.00
			Weight pounds/ft
			8.63

REMARKS

- SOFTWARE ISSUE: WLS 13.04.8492.
- MCG, MML, MDN, MPD, MFE, MSS, MAI RAN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
 - 0.5 INCH STANDOFF USED ON MFE.
 - TWO 0.5 INCH STANDOFFS USED ON MSS.
 - 0.5 INCH STANDOFF USED ON MAI.
- 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 SURFACE CASING: 2420 CU. FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 2000 FEET: 290 CU. FT.

- SERVICE ORDER # 3539880.

- RIG: HD RIG #2

- ENGINEER: W. STAMBAUGH, J. LAPOINT

- OPERATOR(S): K. RINEHART.

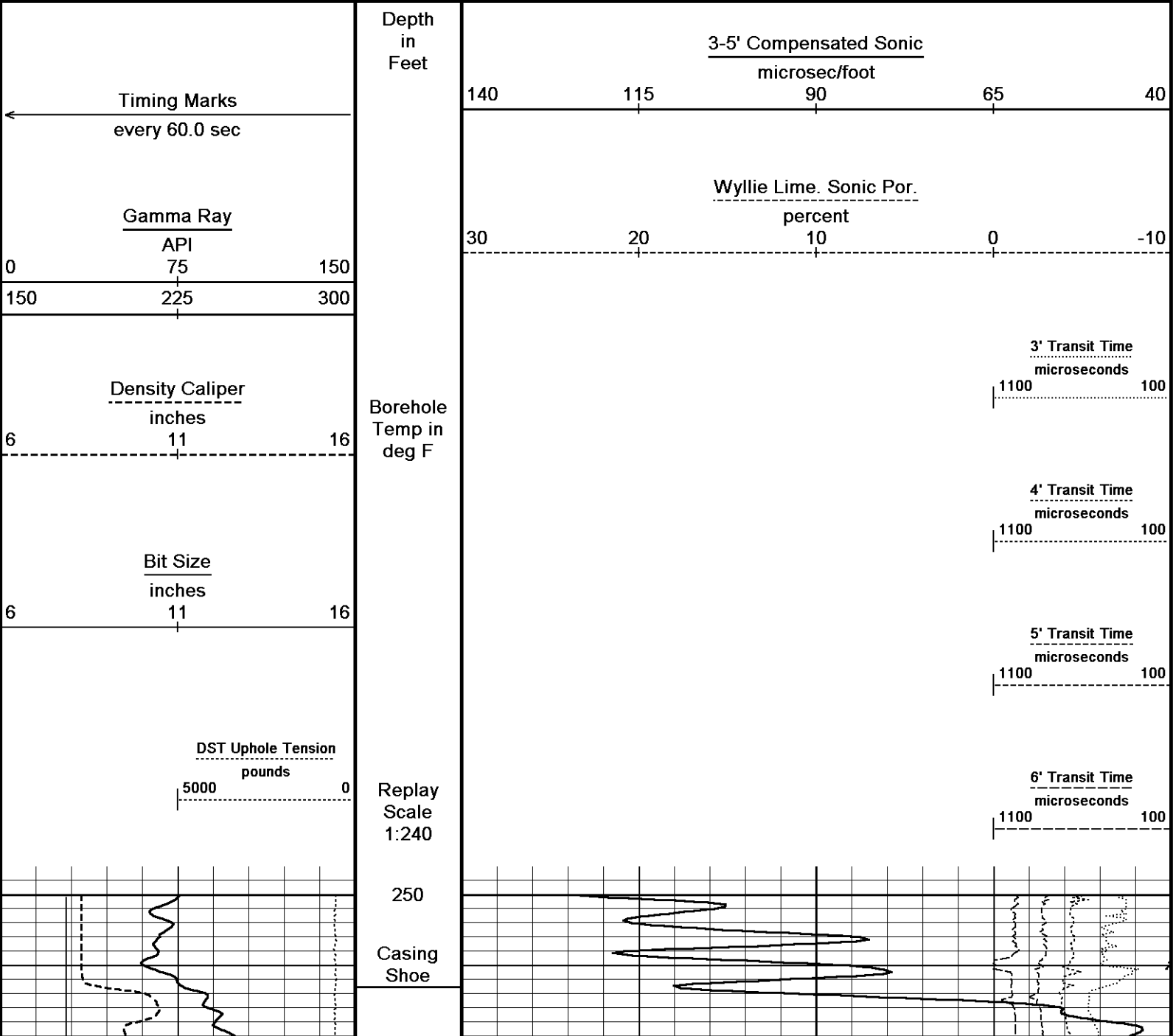
**** SOFTWARE ISSUE CHANGED FLUID LOSS TO MATCH PH. FLUID LOSS SHOULD BE 8.8 ML/30MIN. ****

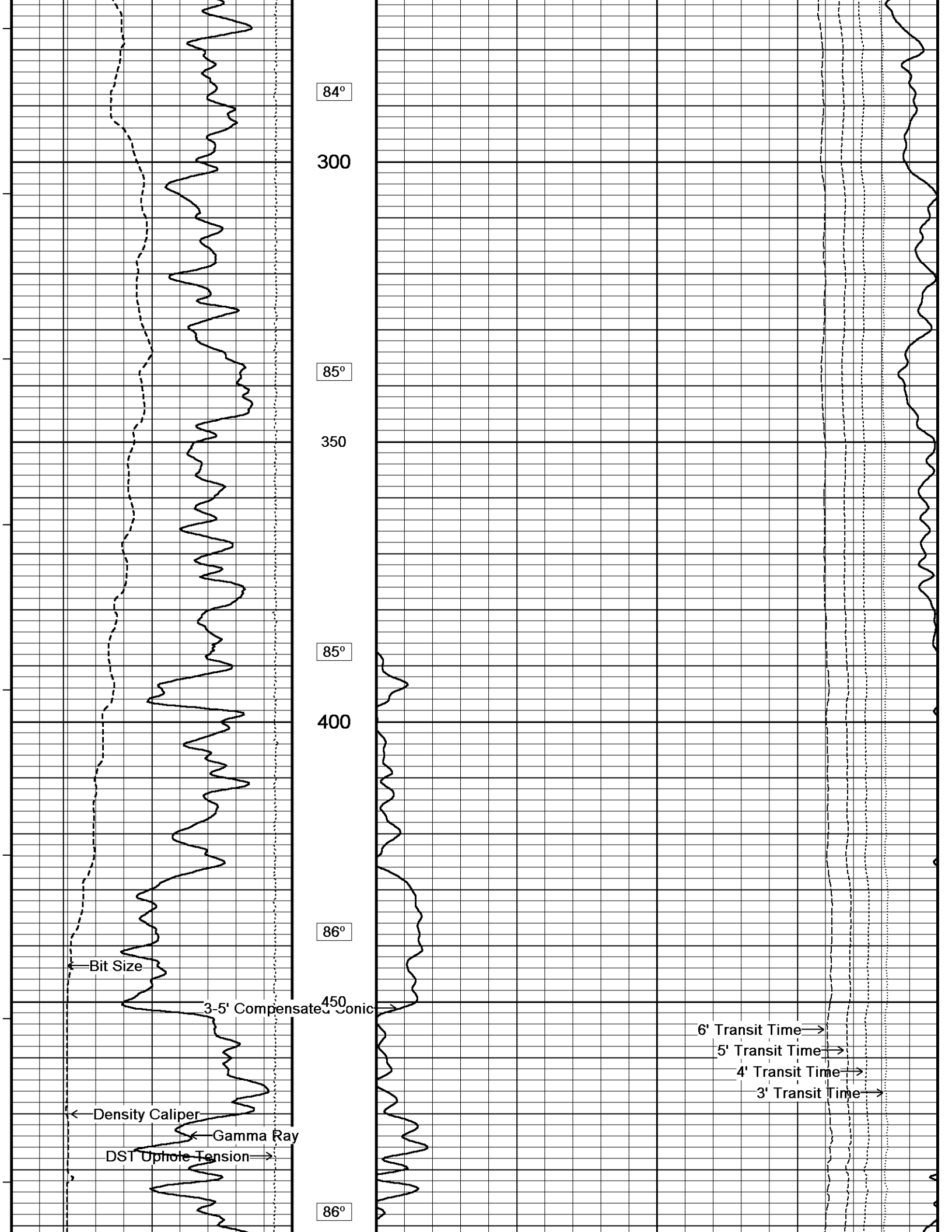
****HIGH RESOLUTION INTERVAL FROM 4550 FEET TO 4400 FEET.****

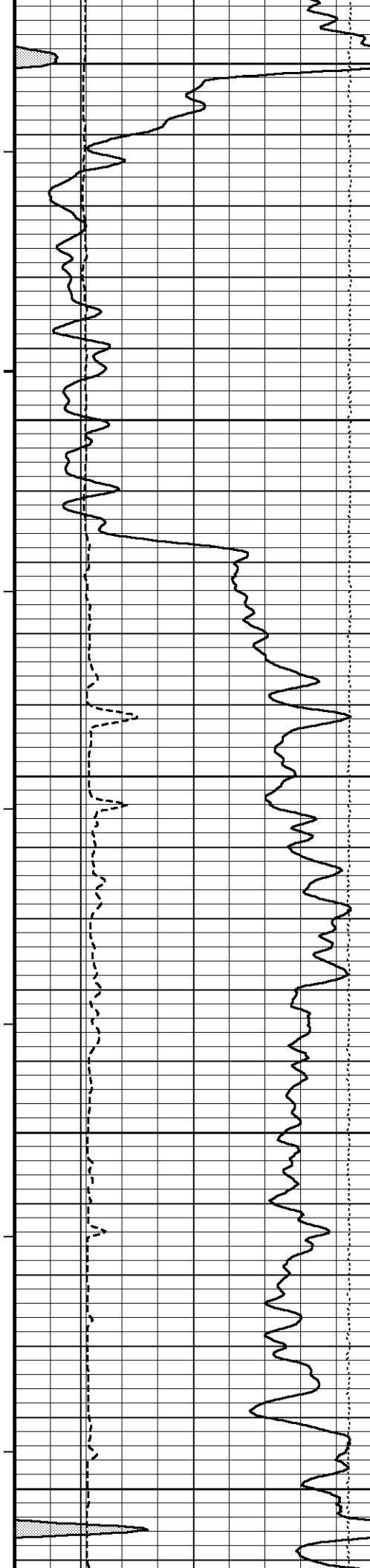
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 30-MAR-2013 15:10
Filename: C:\Minimus 13.04.8492\Data\Shakespeare Nighte...\Shakespeare Nightengale #1-28_003.dta Recorded on 30-MAR-2013 12:03
System Versions: Logged with 13.04.8492 Plotted with 13.04.8492







500

86°

550

87°

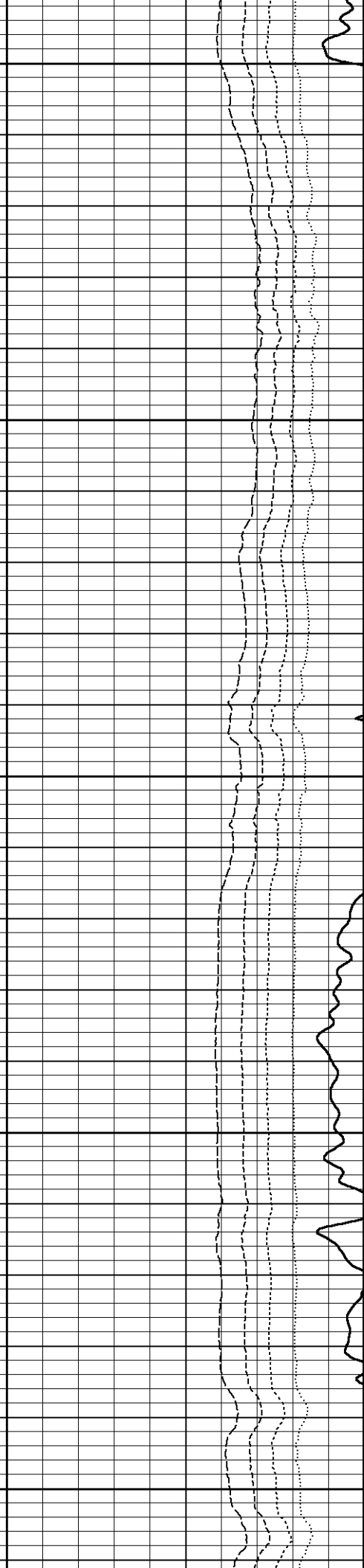
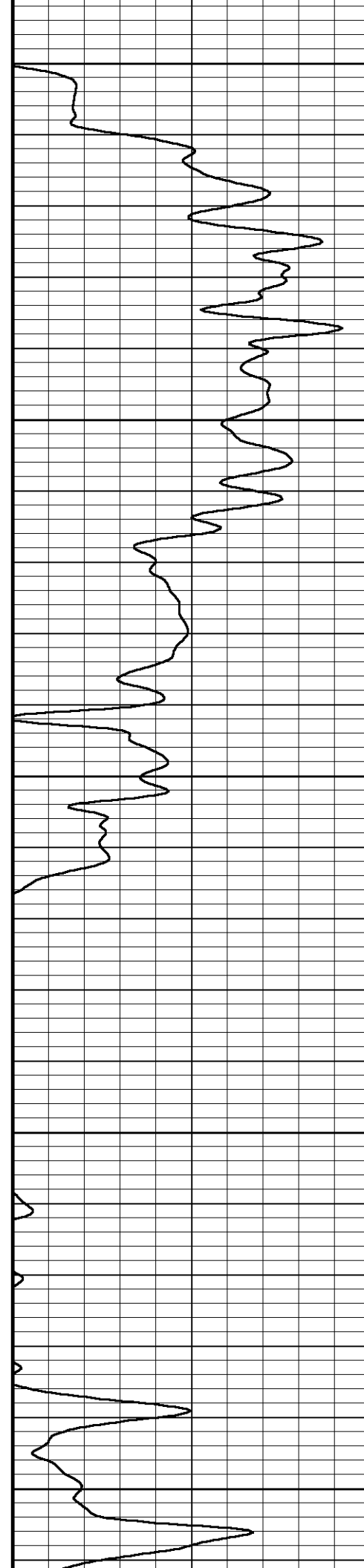
600

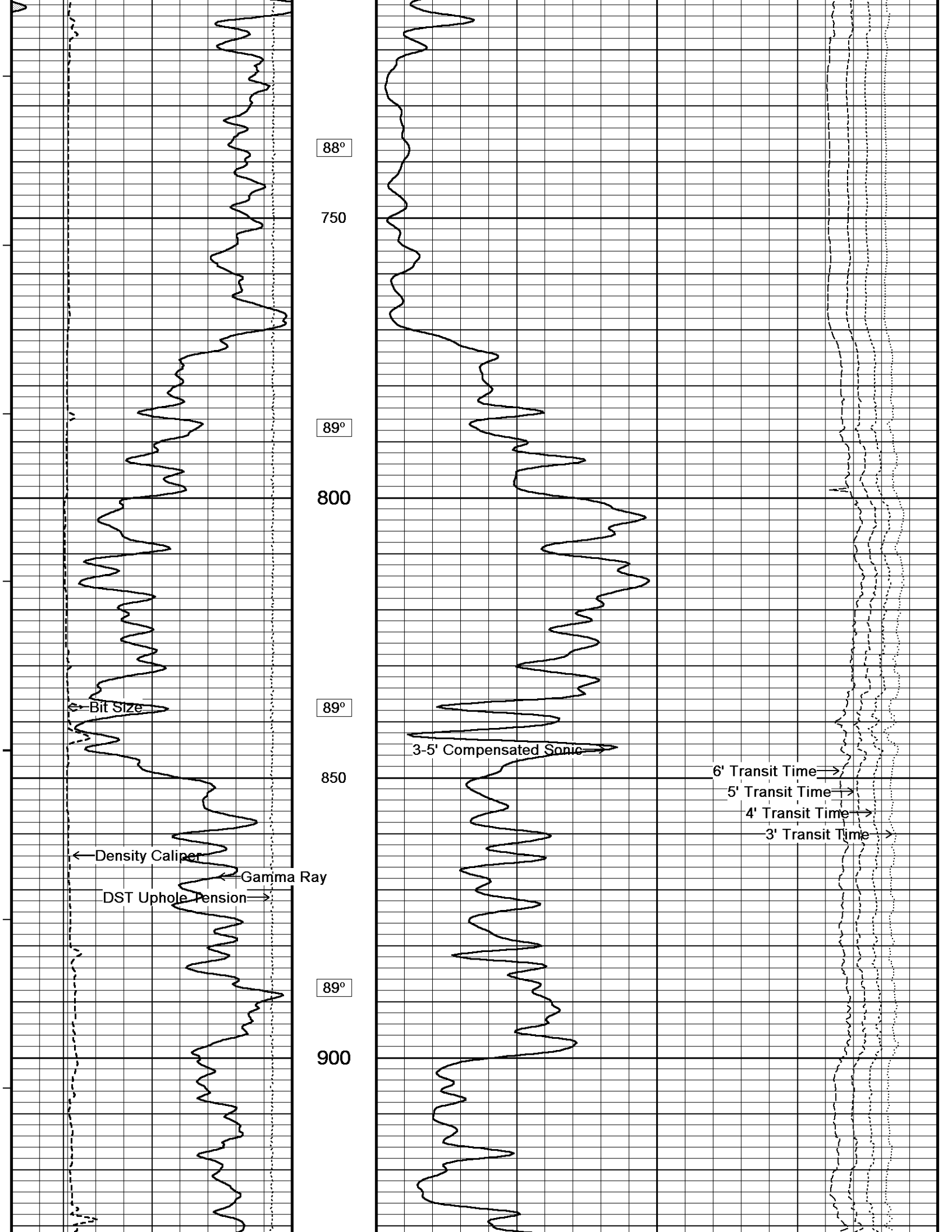
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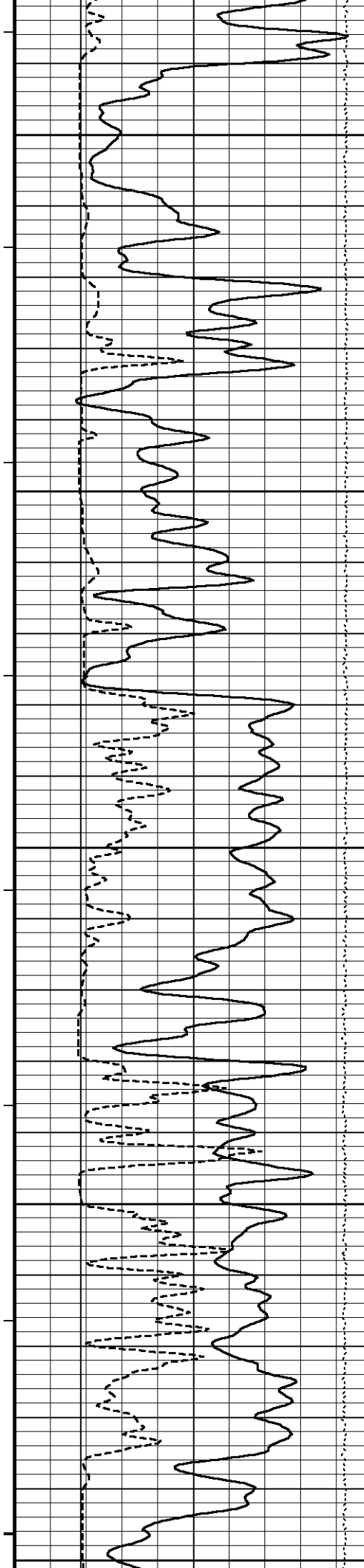
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88°

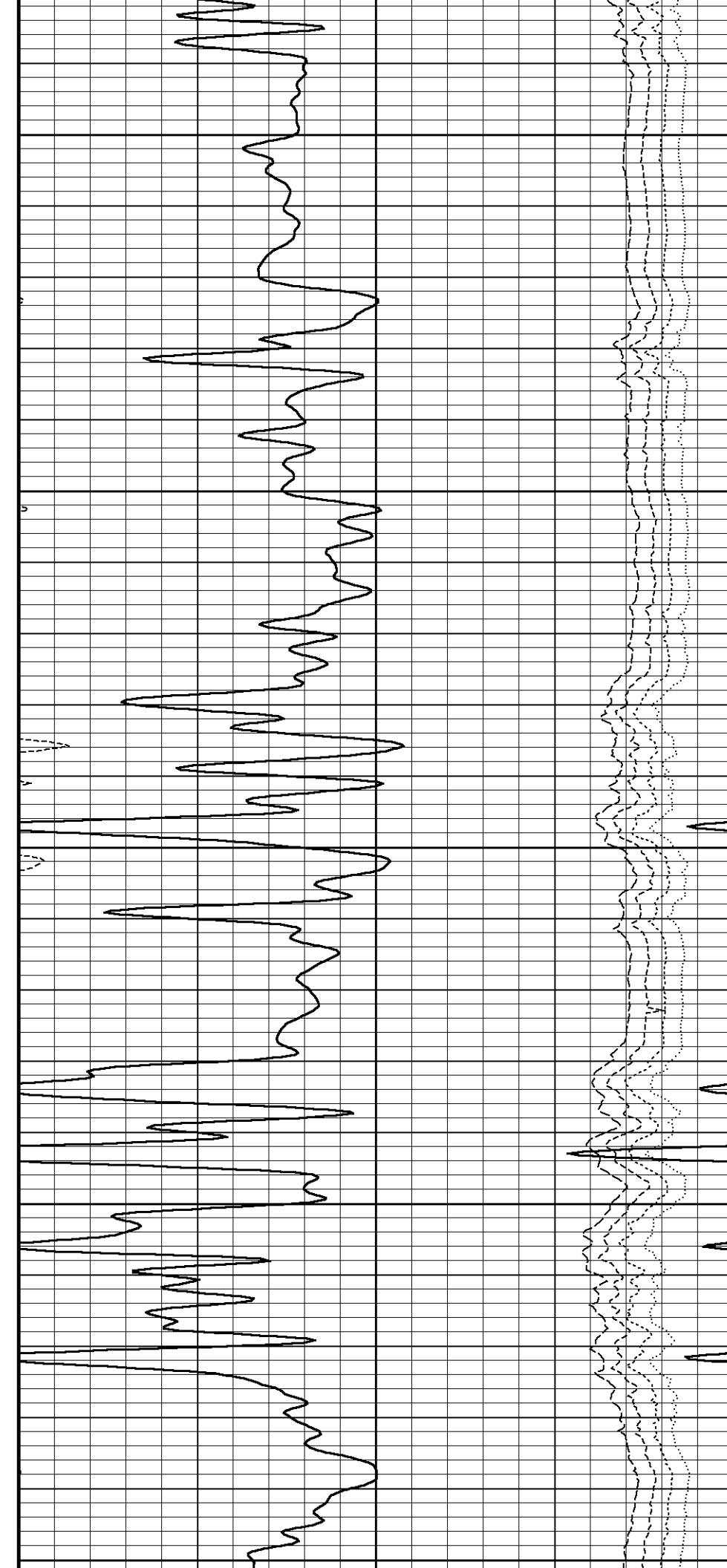
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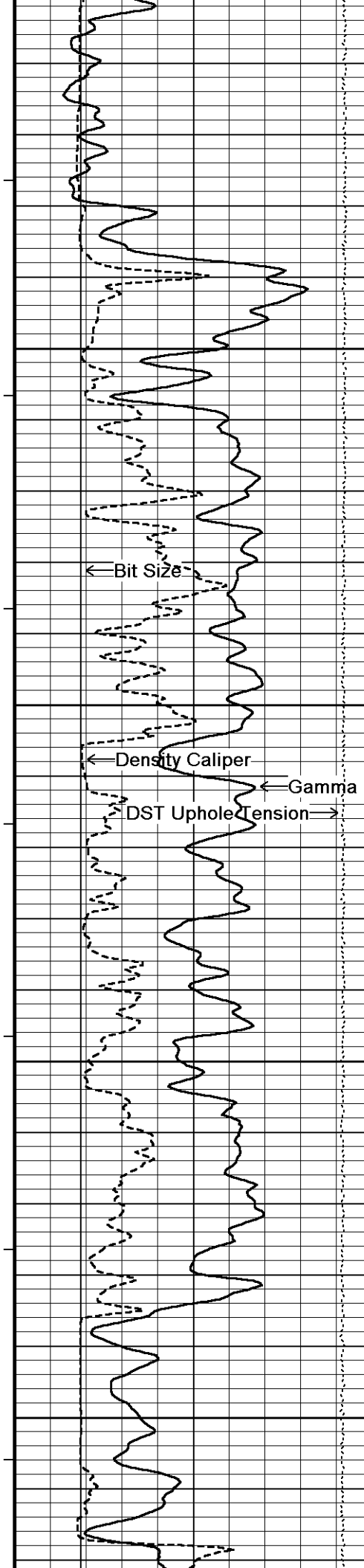




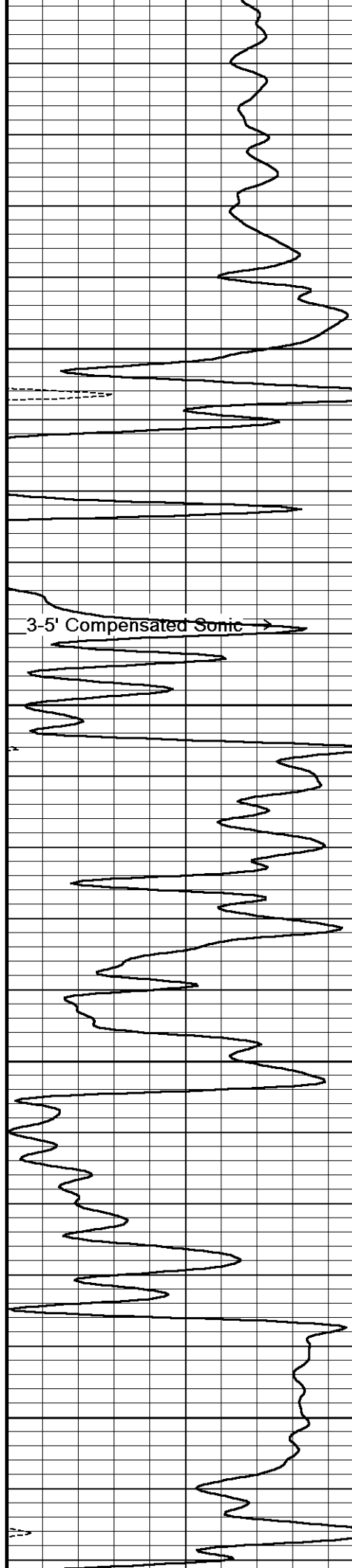


89°
950
90°
1000
90°
1050
90°
1100
91°
1150

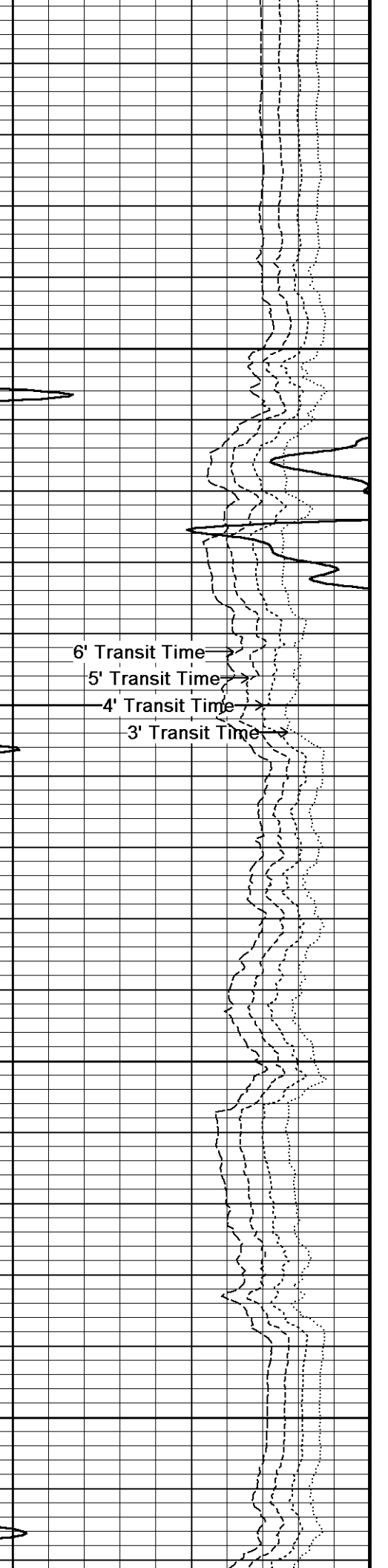


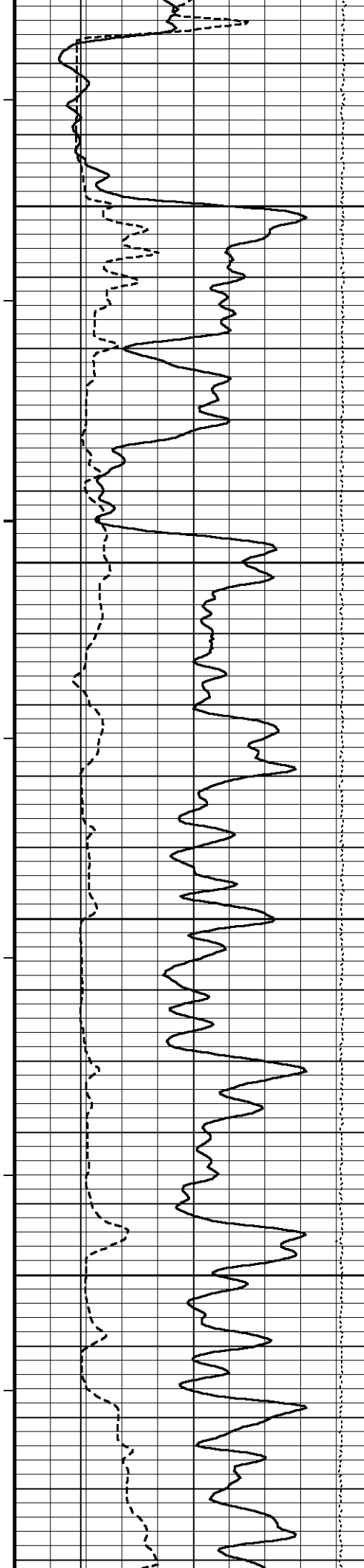


91°
1200
92°
1250
92°
1300
92°
1350



6' Transit Time
5' Transit Time
4' Transit Time
3' Transit Time





92°

1400

92°

1450

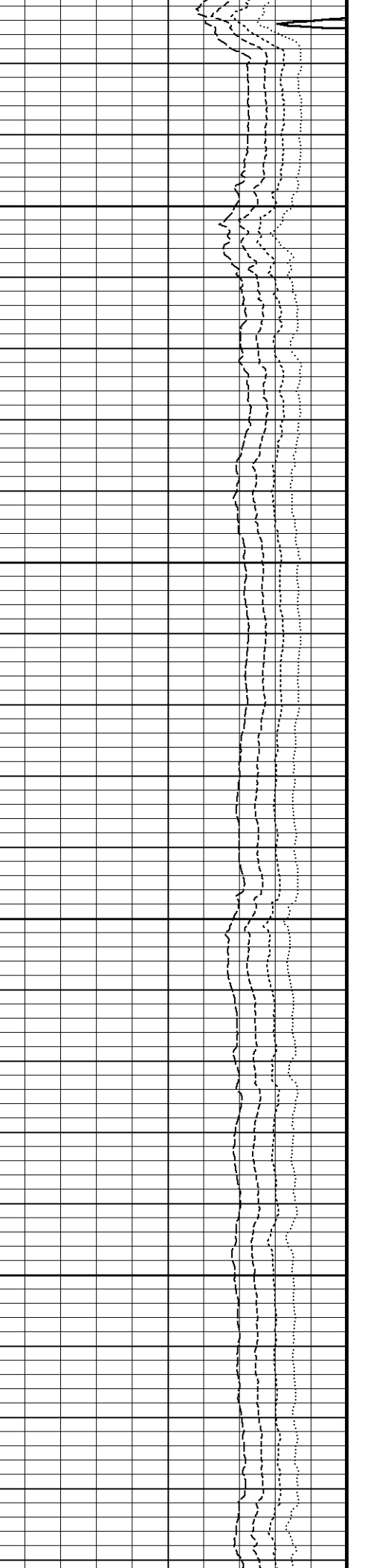
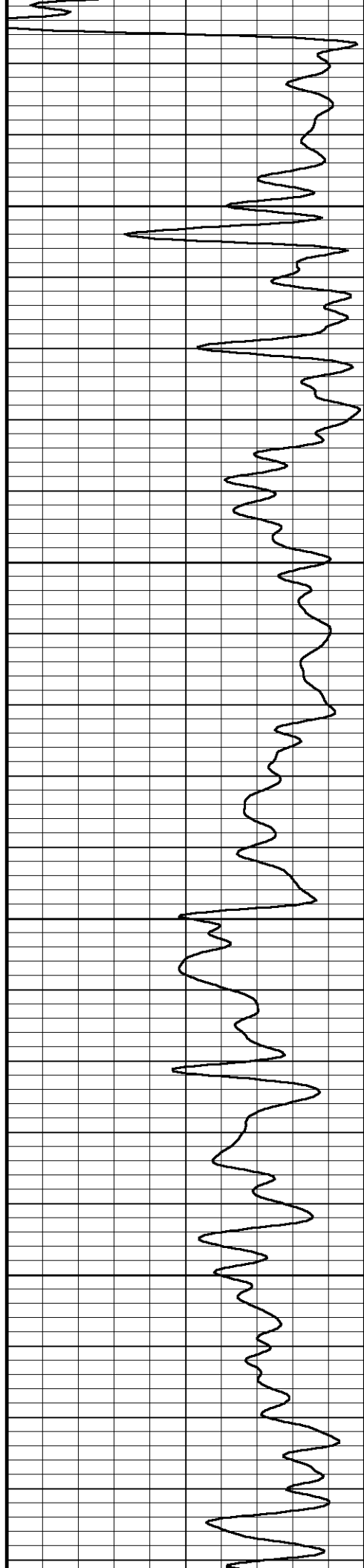
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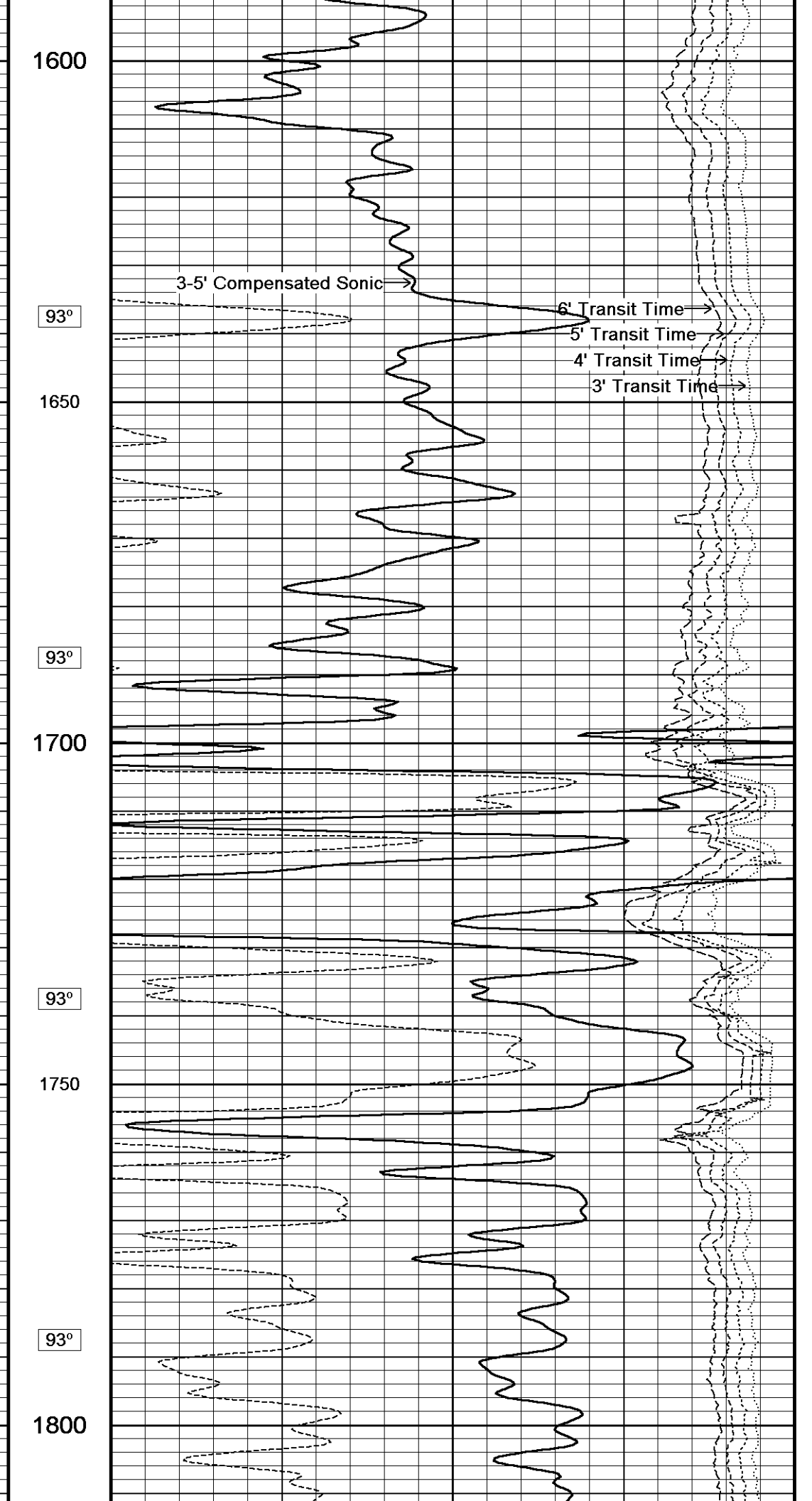
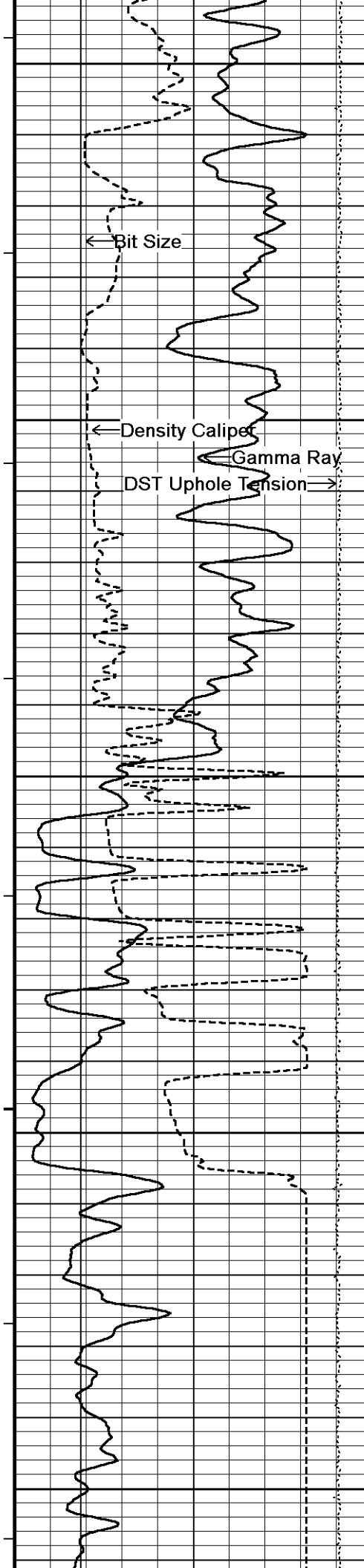
1500

93°

1550

93°





1600

93°

1650

93°

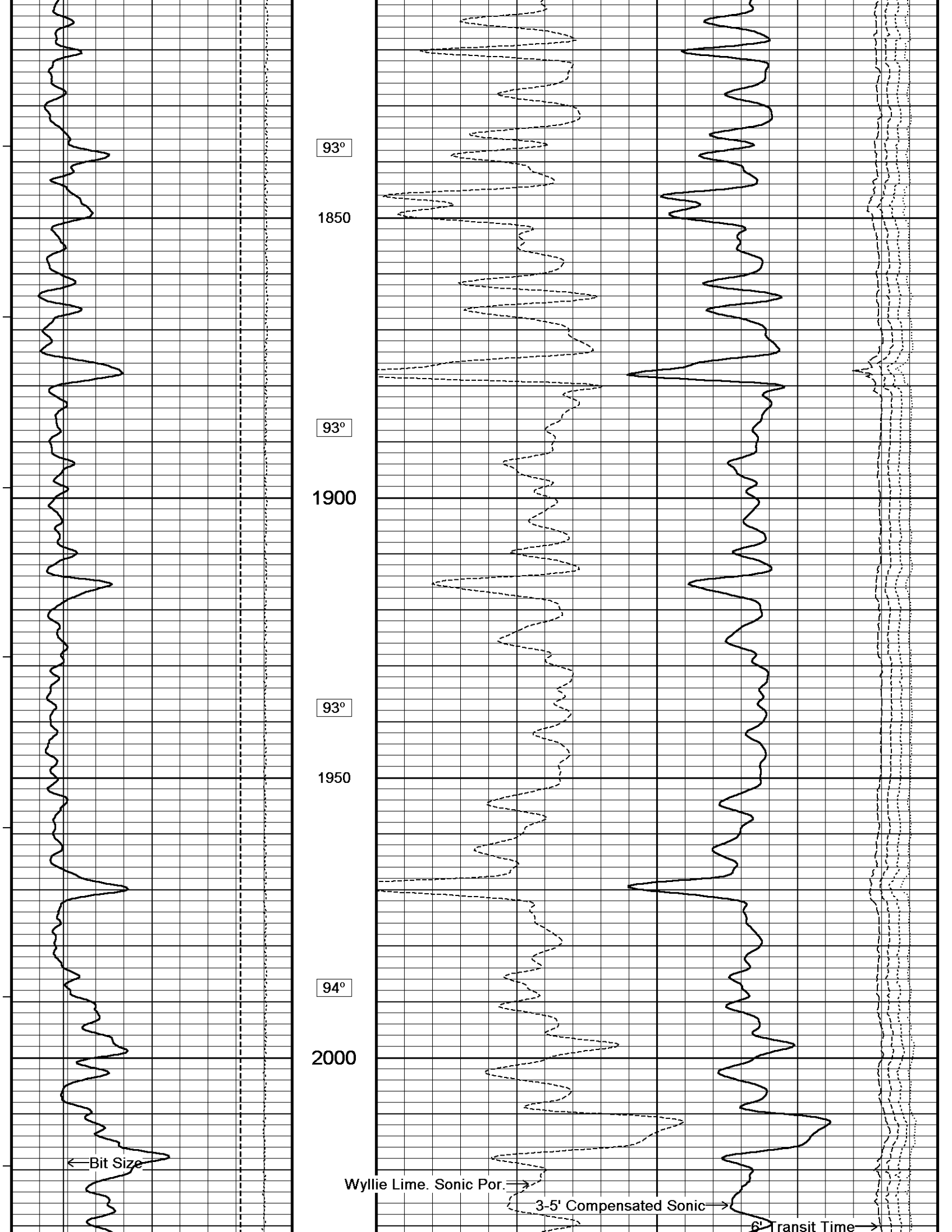
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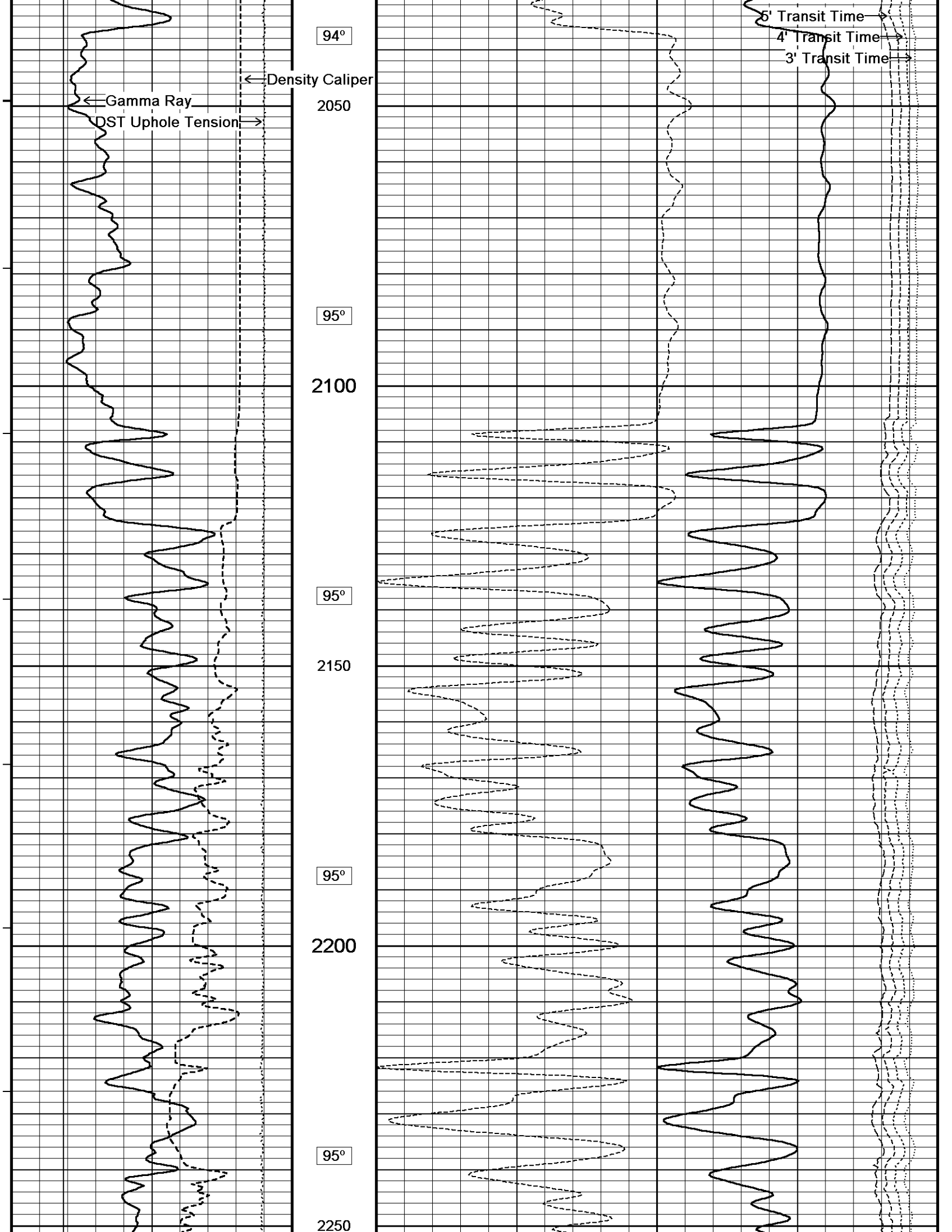
93°

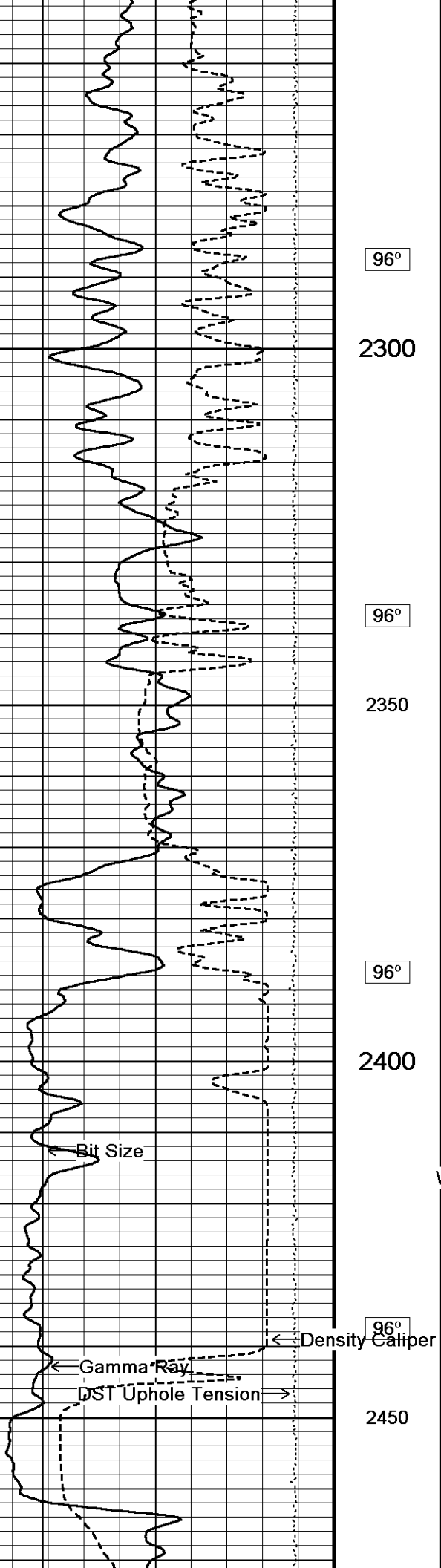
1750

93°

1800







96°

2300

96°

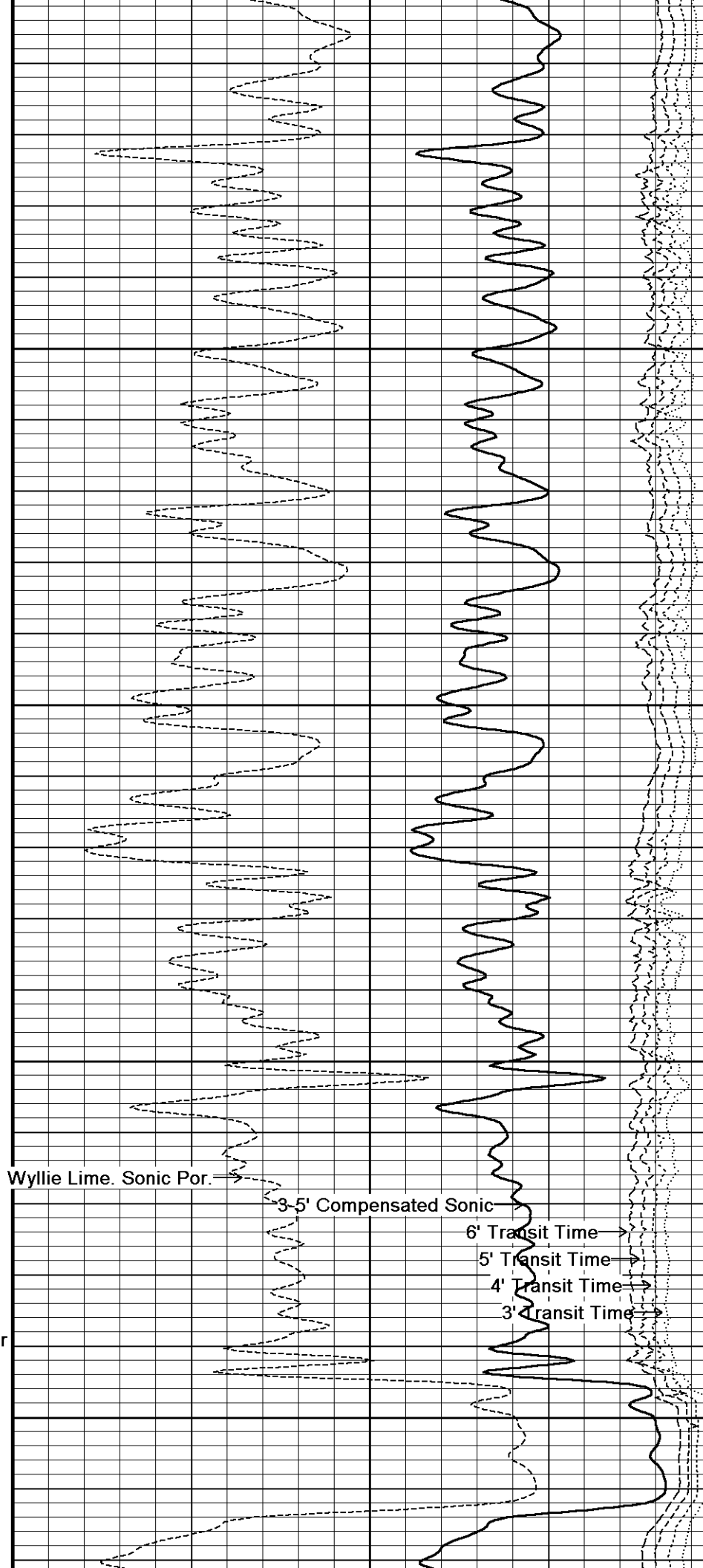
2350

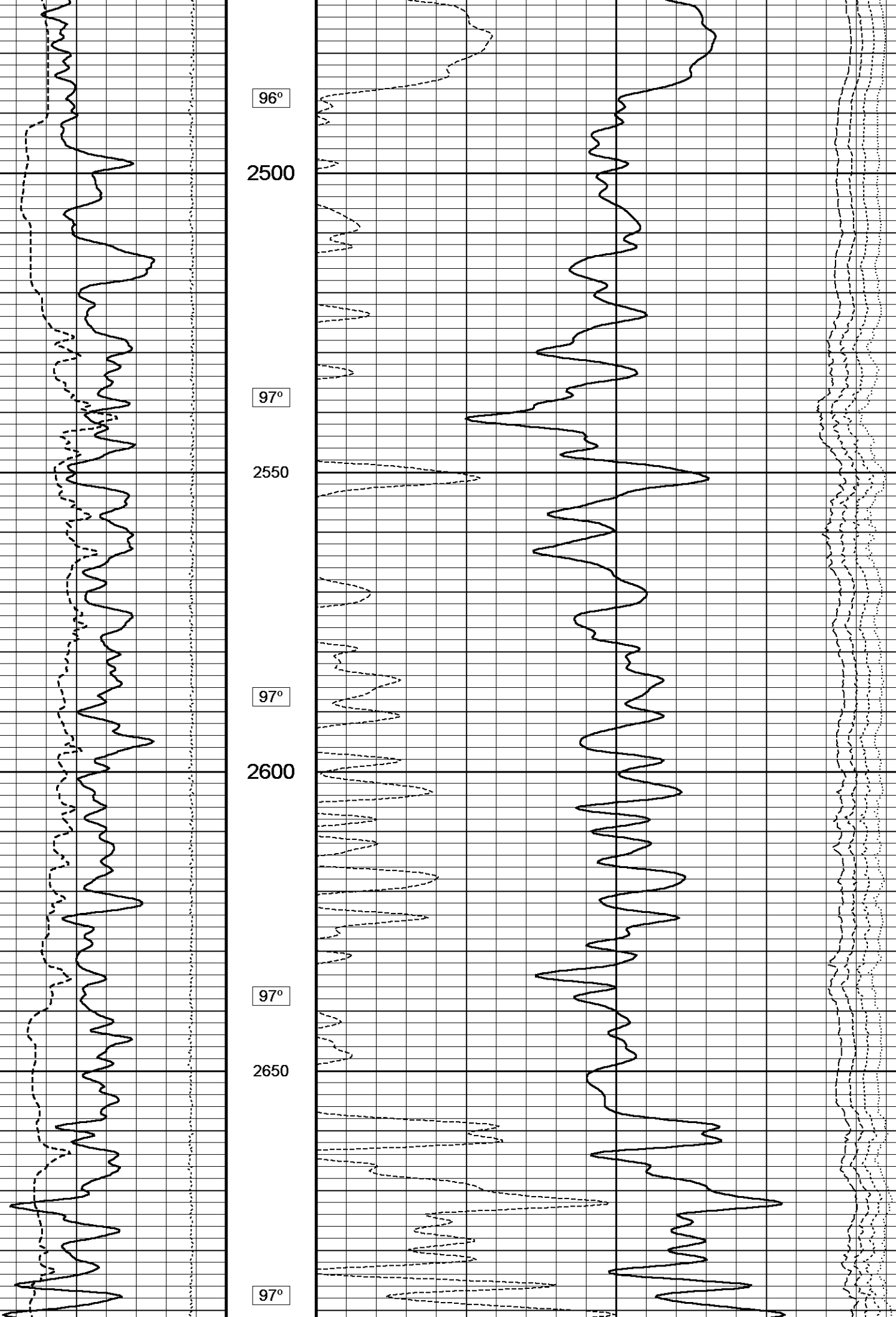
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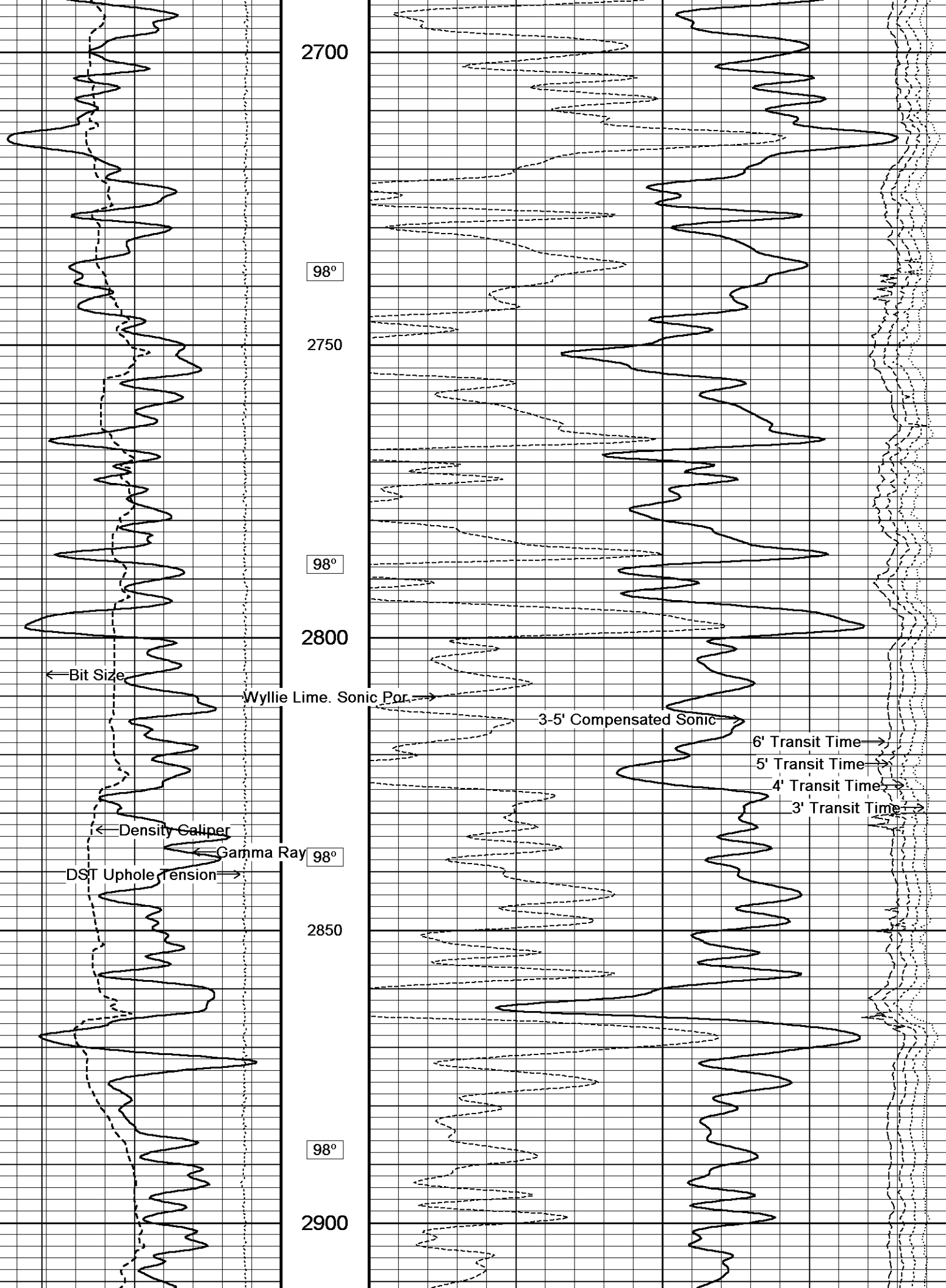
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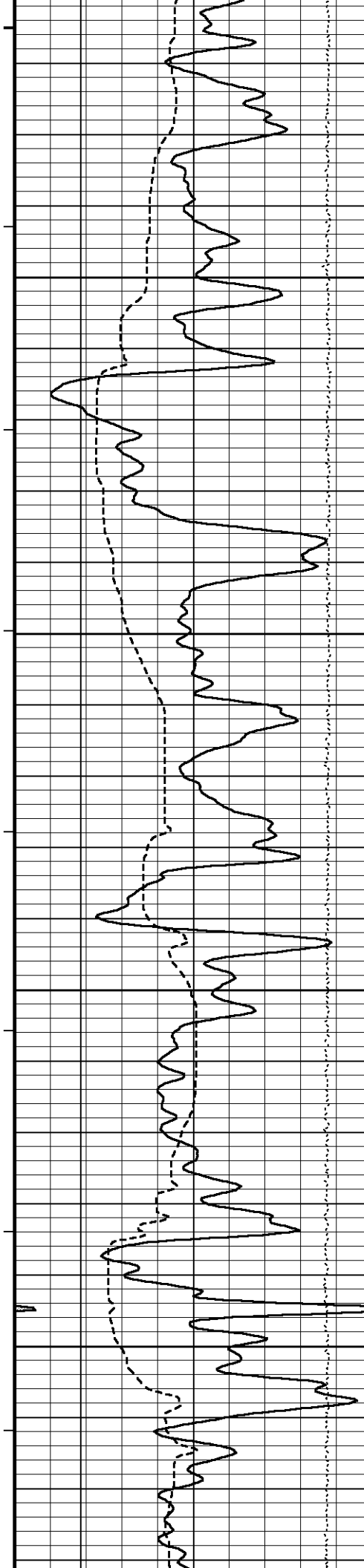
96°

2450









98°

2950

99°

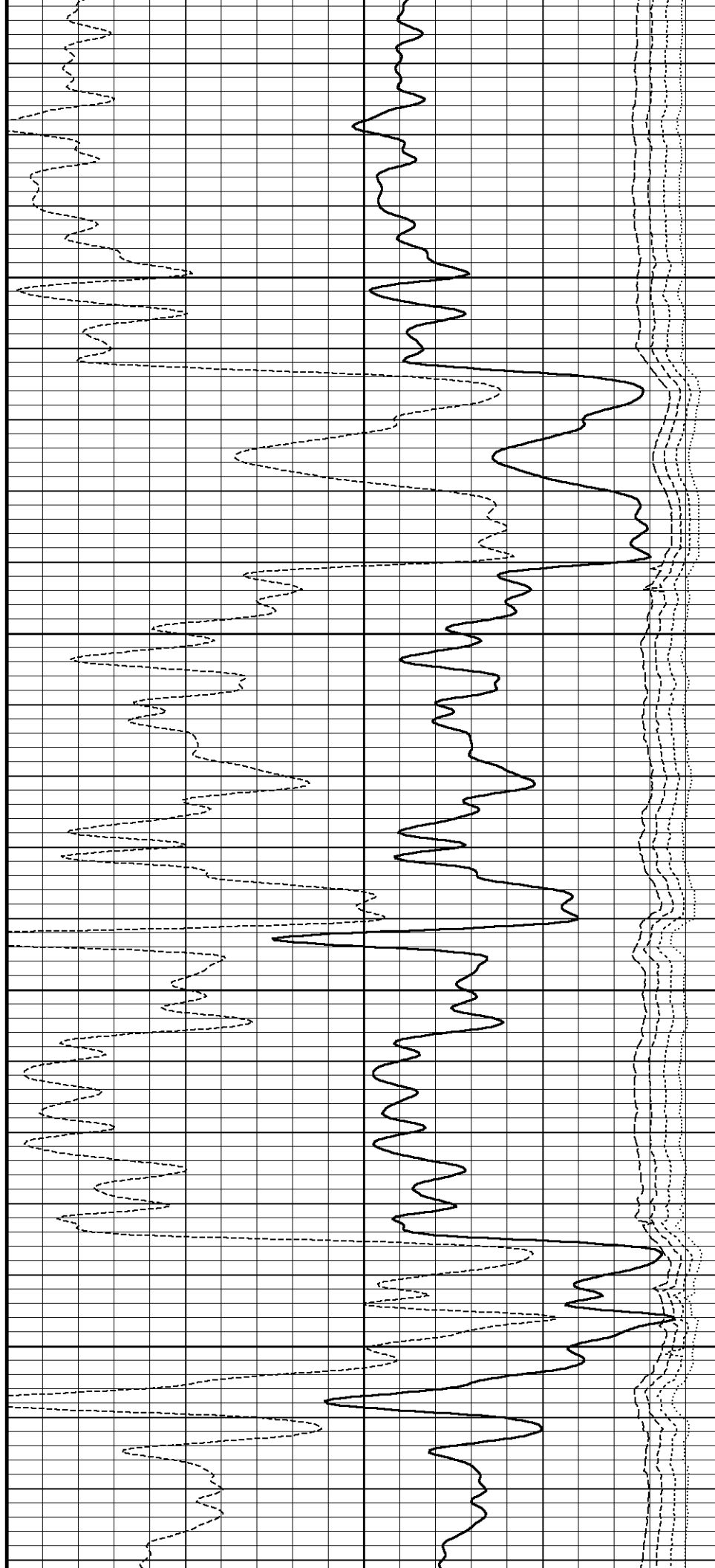
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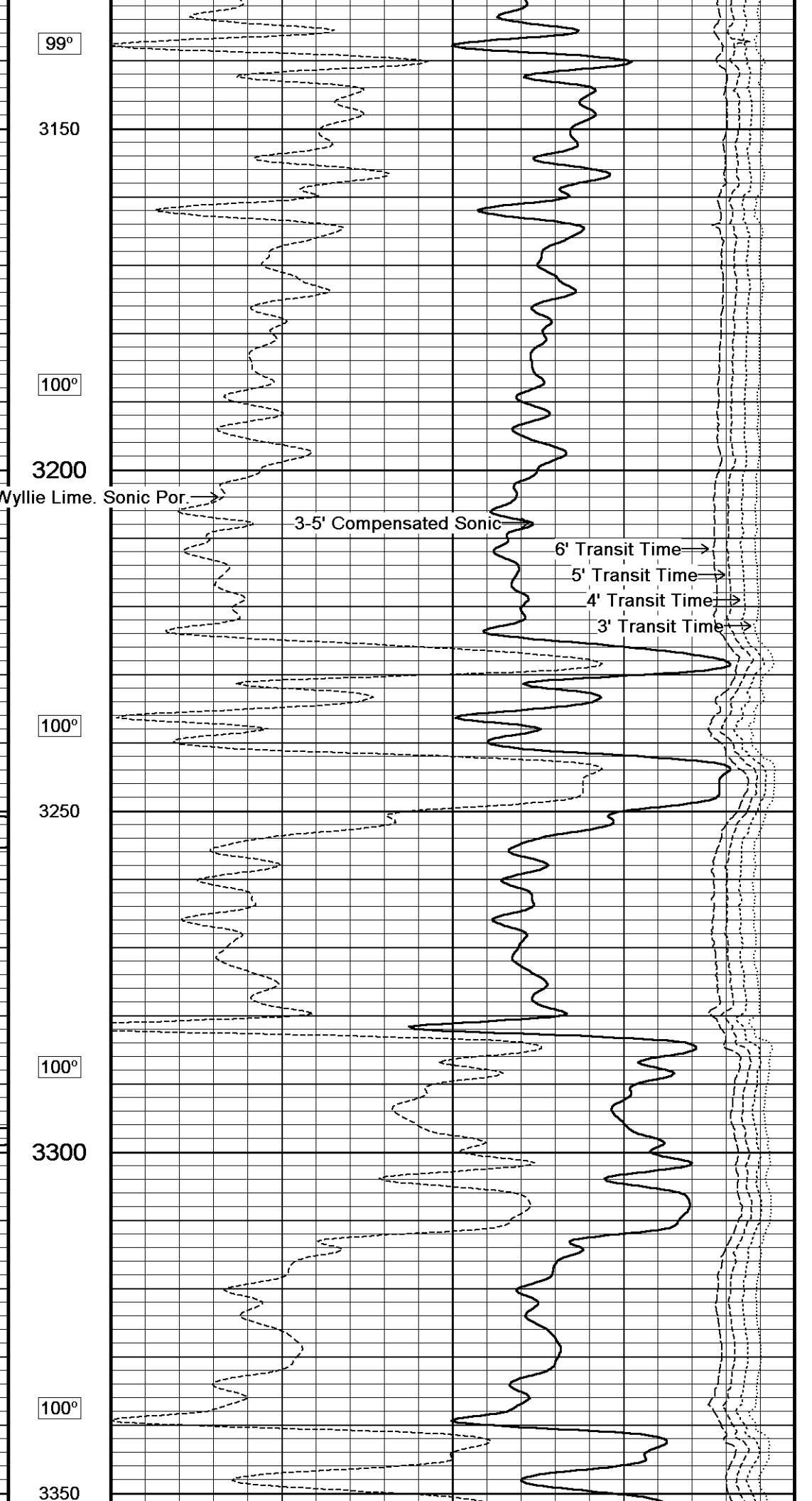
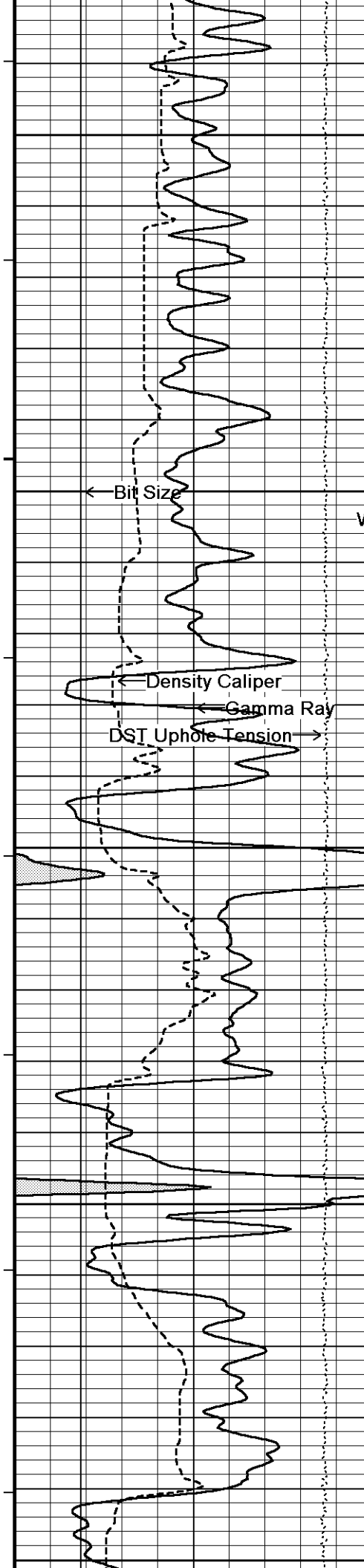
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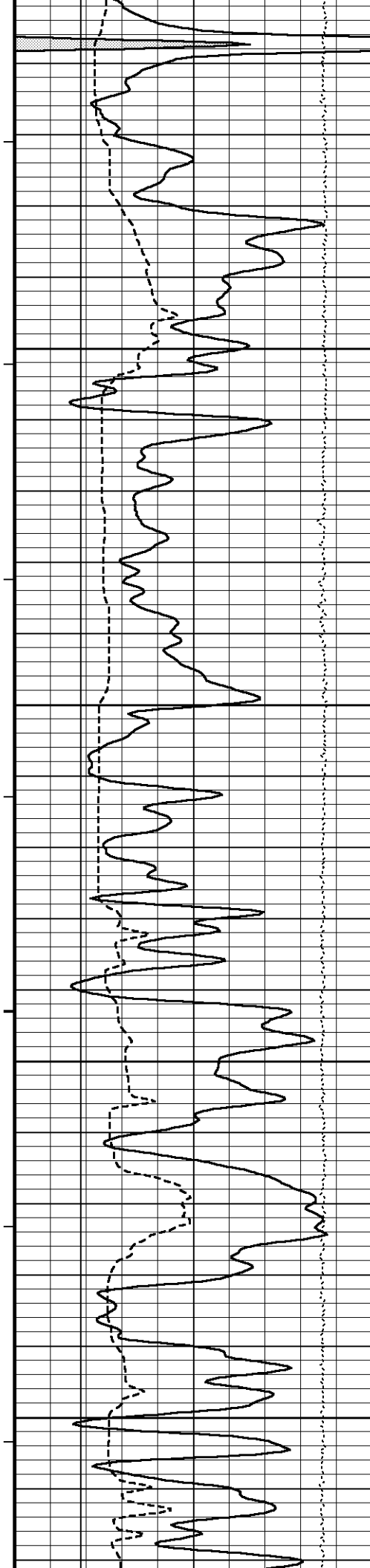
3050

99°

3100







101°

3400

101°

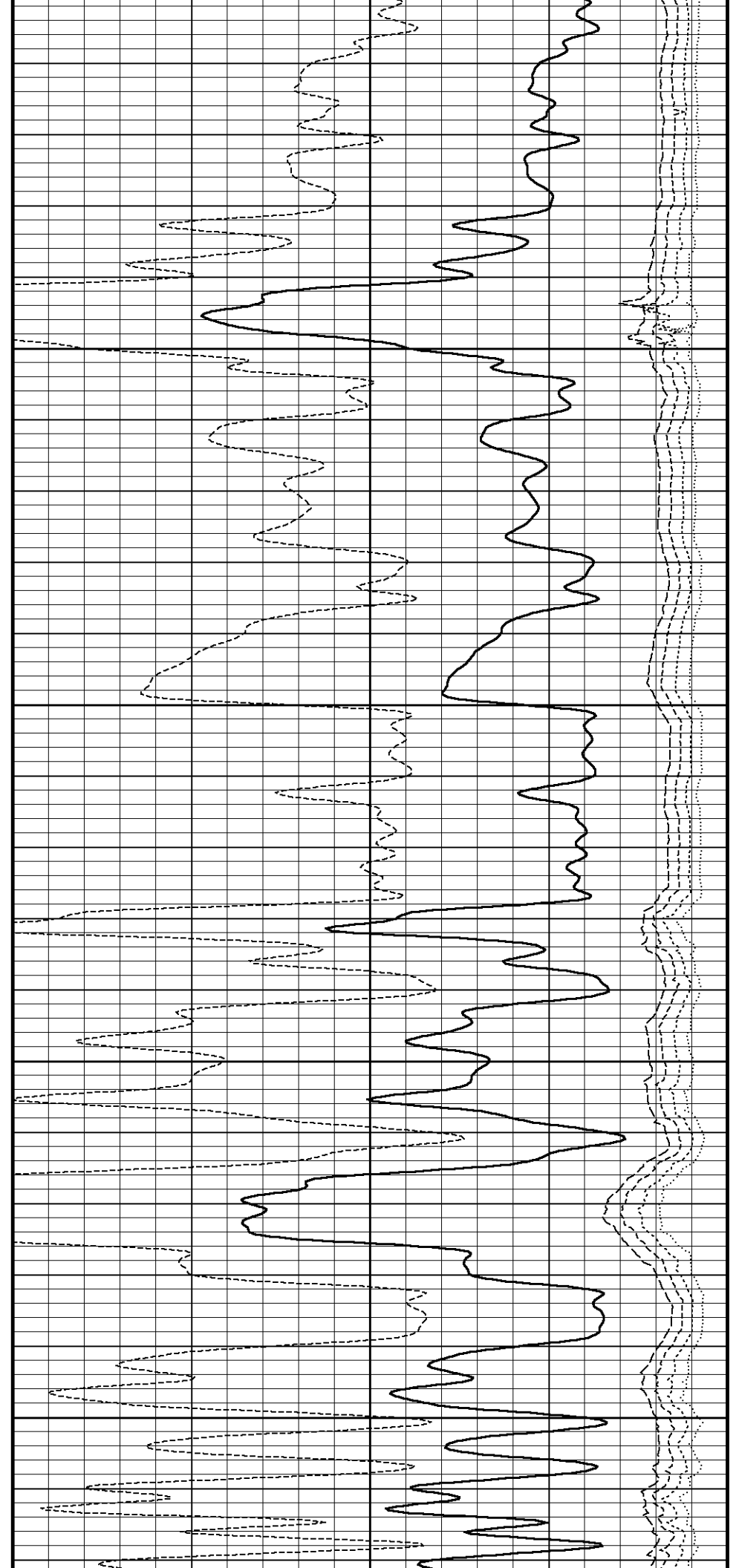
3450

101°

3500

101°

3550



102°

3600
Lime. Sonic Por.

102°

3650

102°

3700

102°

3750

103°

← Bit Size

← Density Caliper

← Gamma Ray

DST Uphole Tension →

→ Lime. Sonic Por.

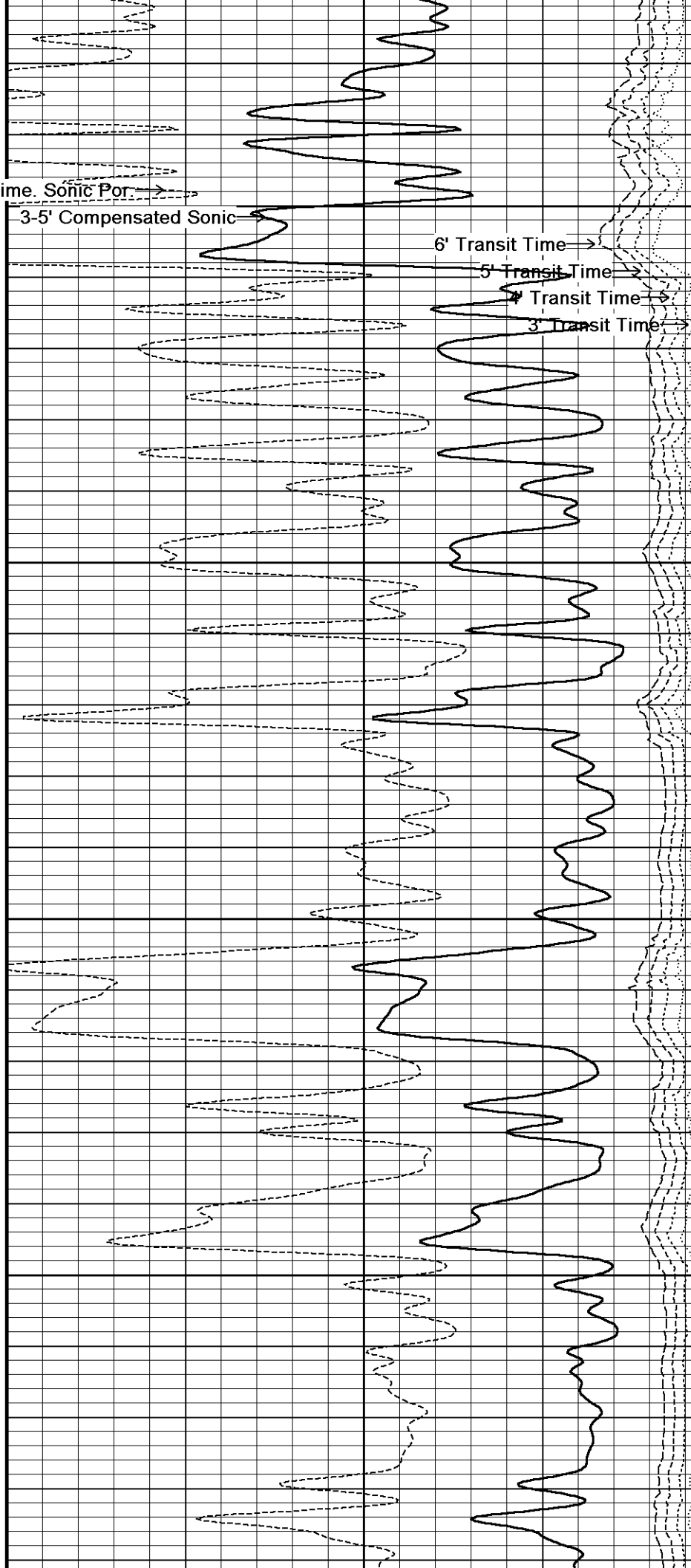
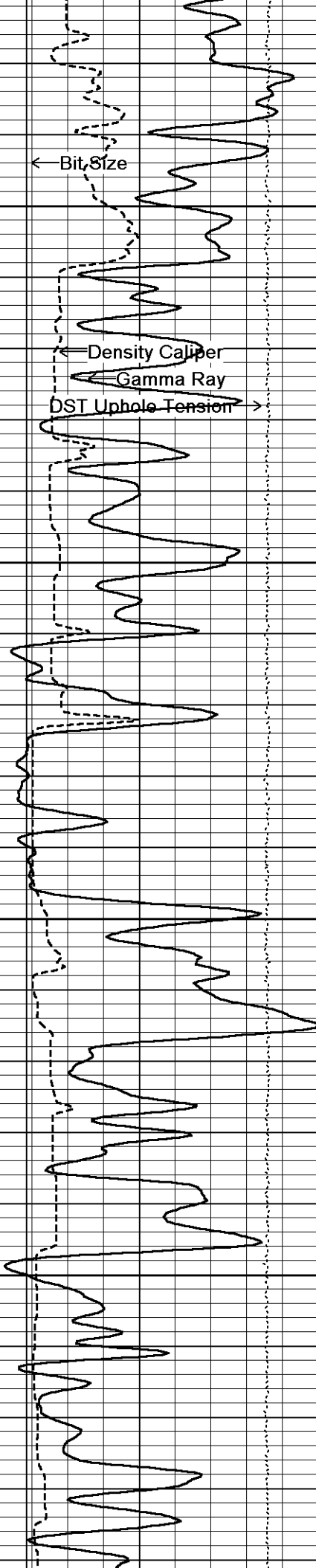
→ 3-5' Compensated Sonic

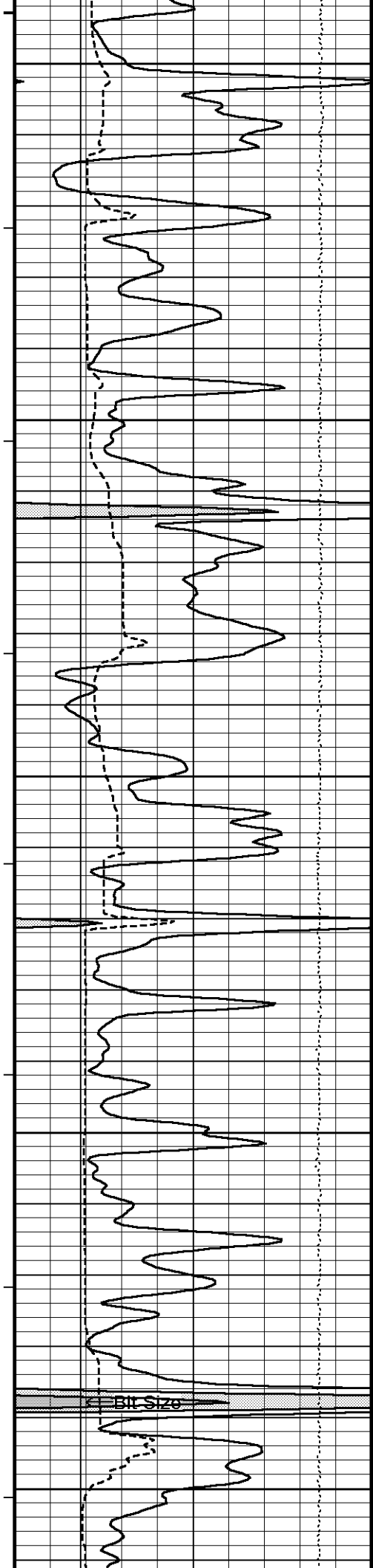
→ 6' Transit Time

→ 5' Transit Time

→ 4' Transit Time

→ 3' Transit Time





3800

103°

3850

103°

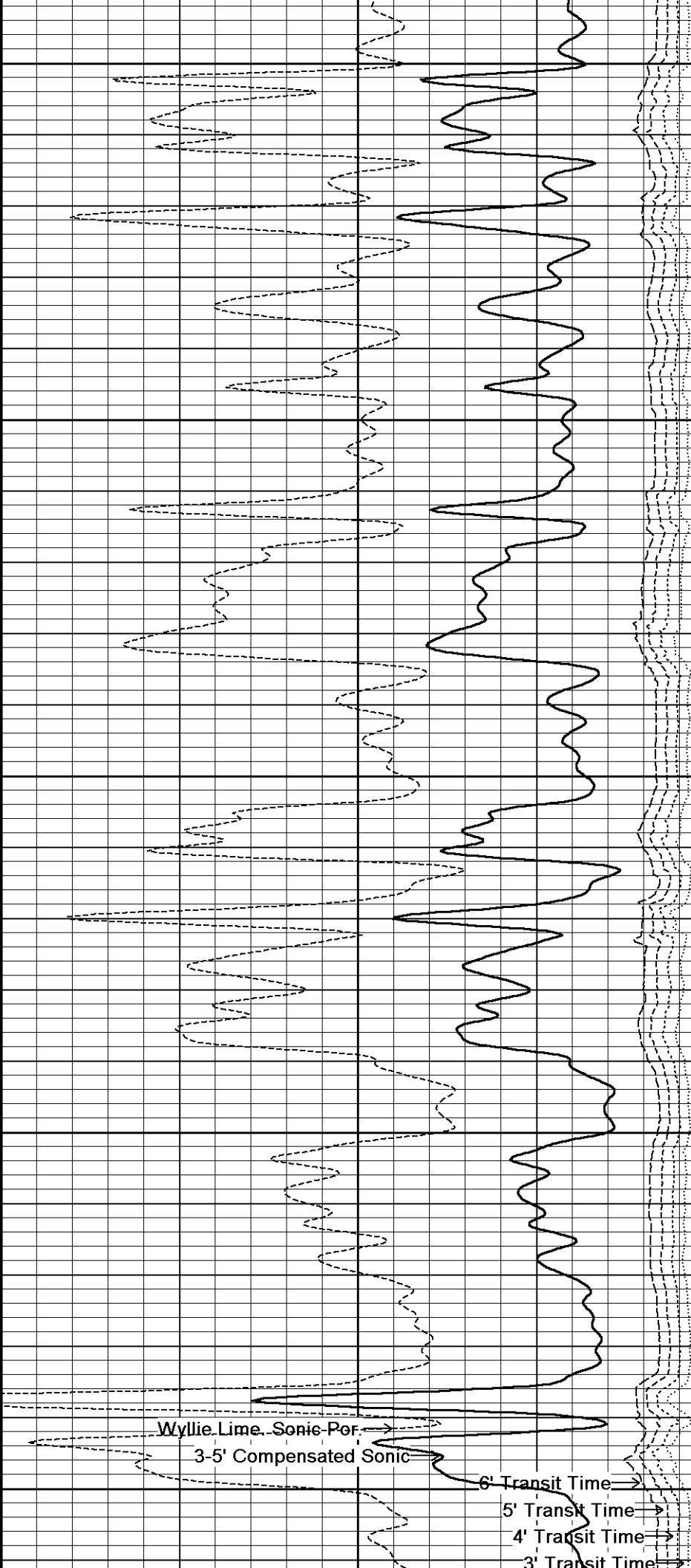
3900

103°

3950

103°

4000



← Density Caliper
← Gamma Ray
DST Uphole Tension →

103°

4050

104°

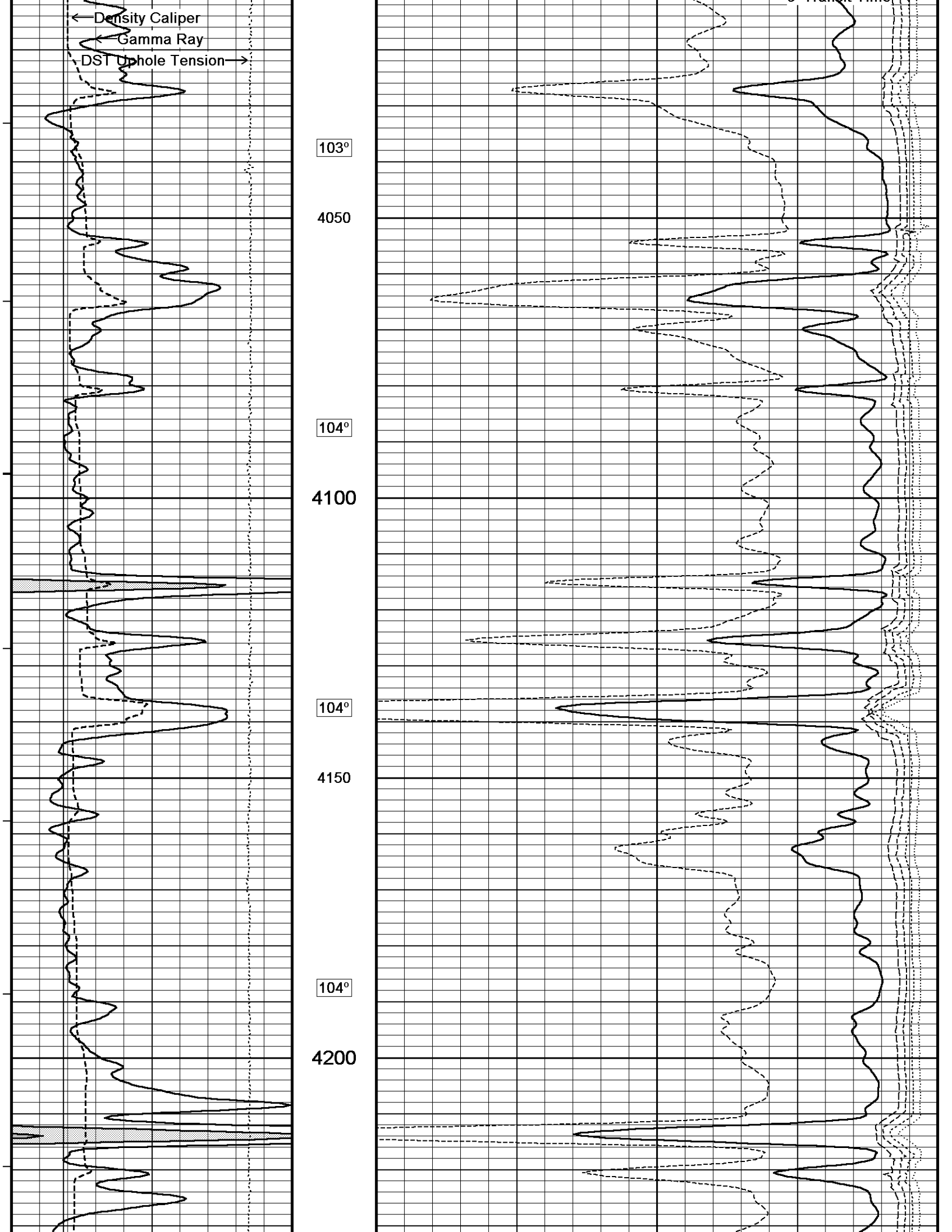
4100

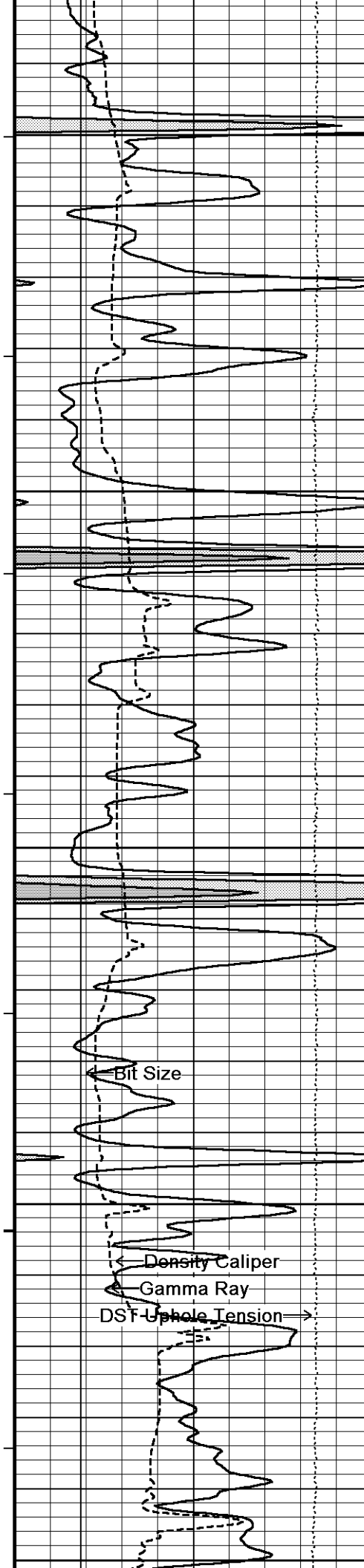
104°

4150

104°

4200





105°

4250

105°

4300

106°

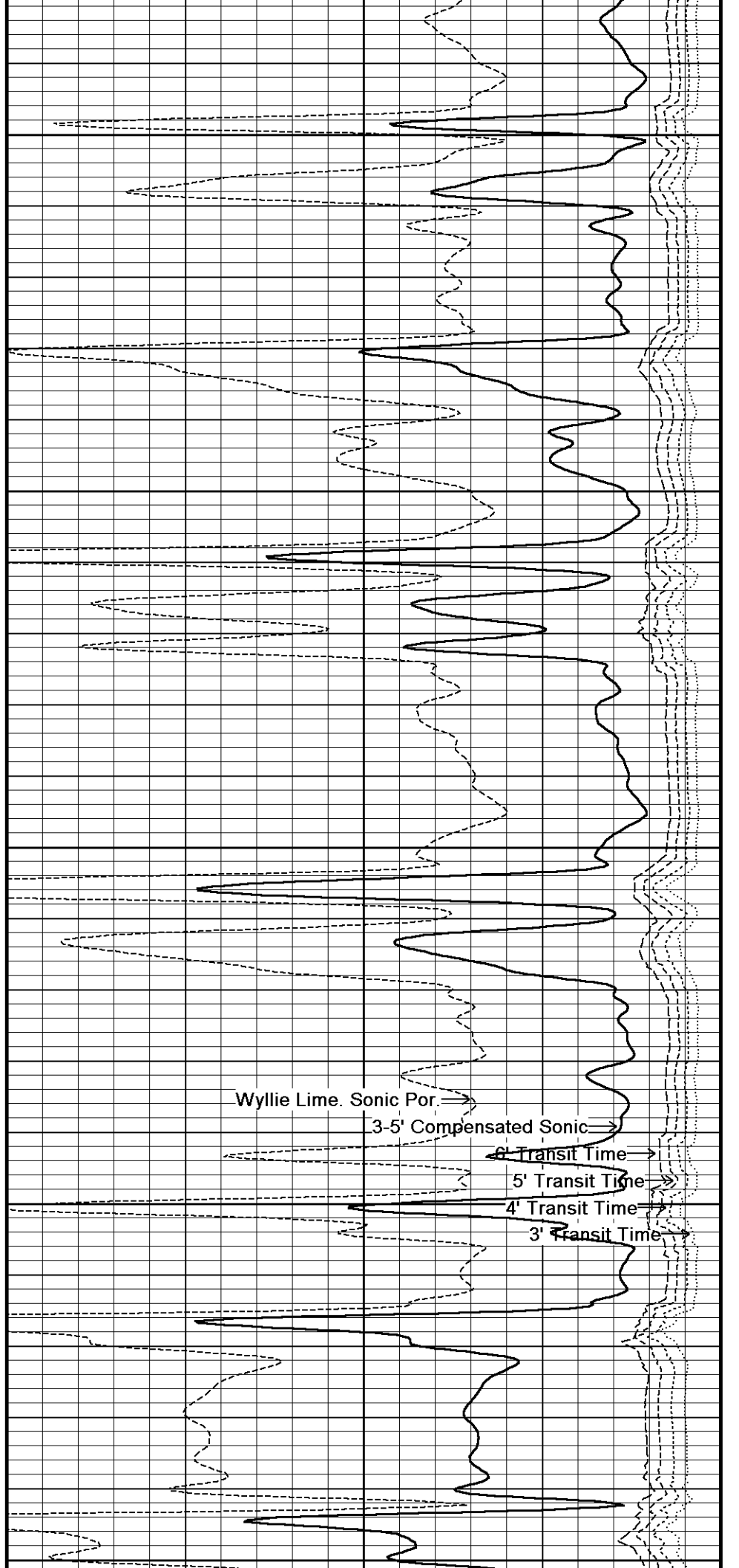
4350

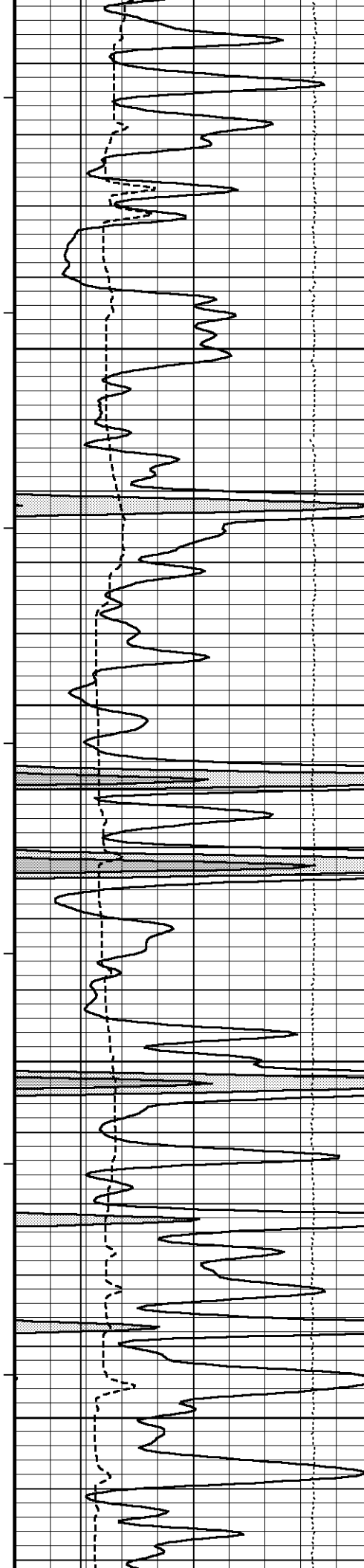
106°

4400

107°

4450





107°

4500

107°

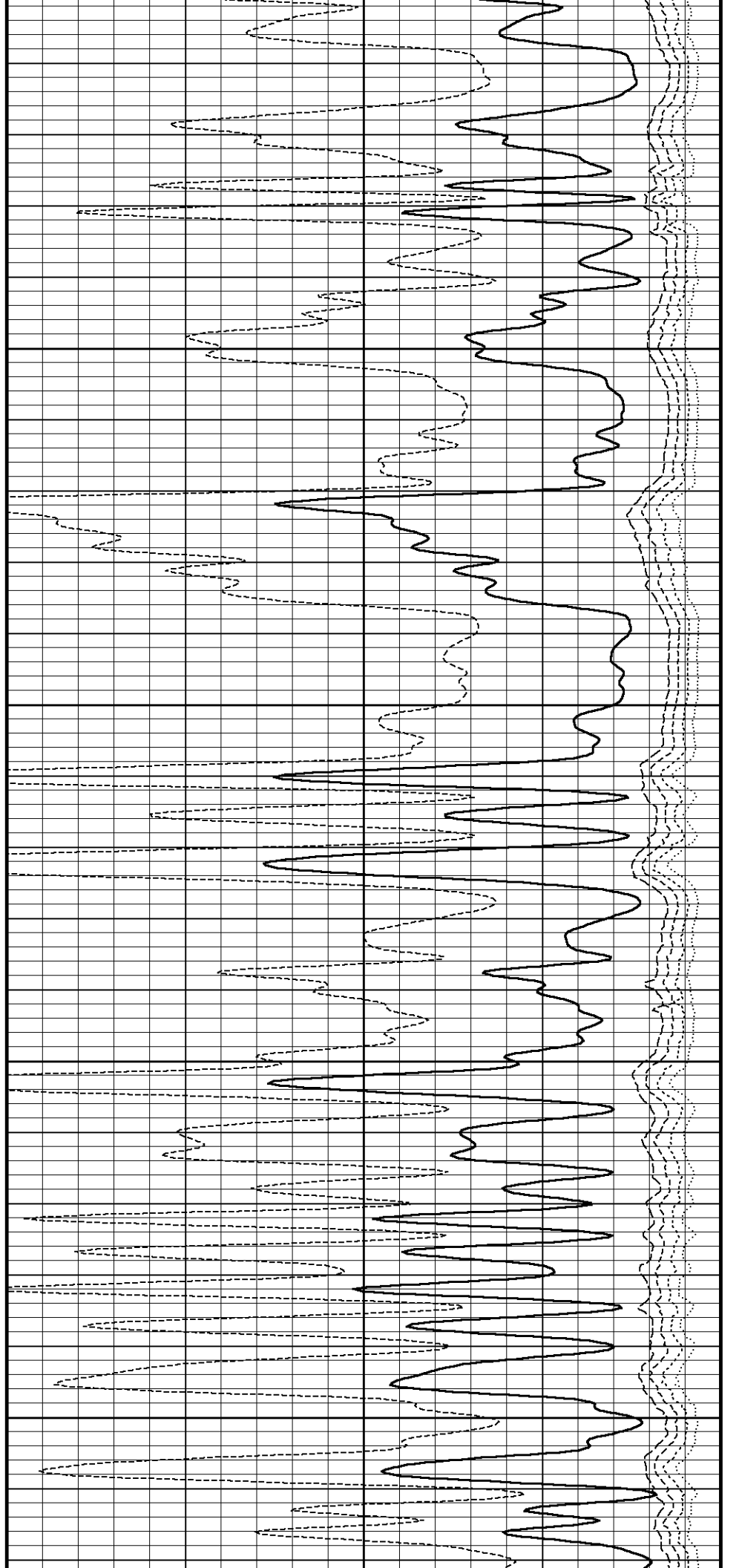
4550

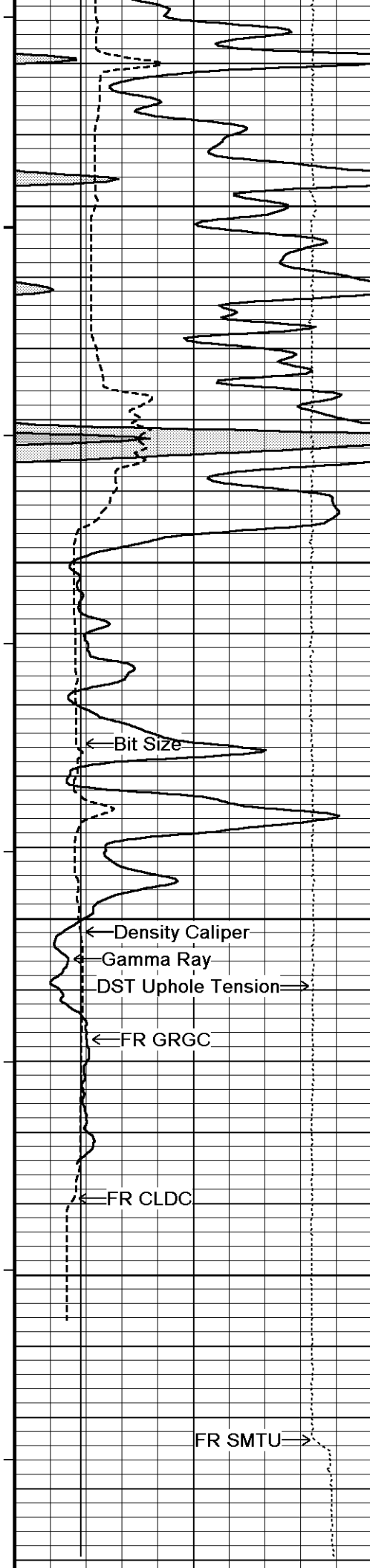
108°

4600

108°

4650





109°

4700

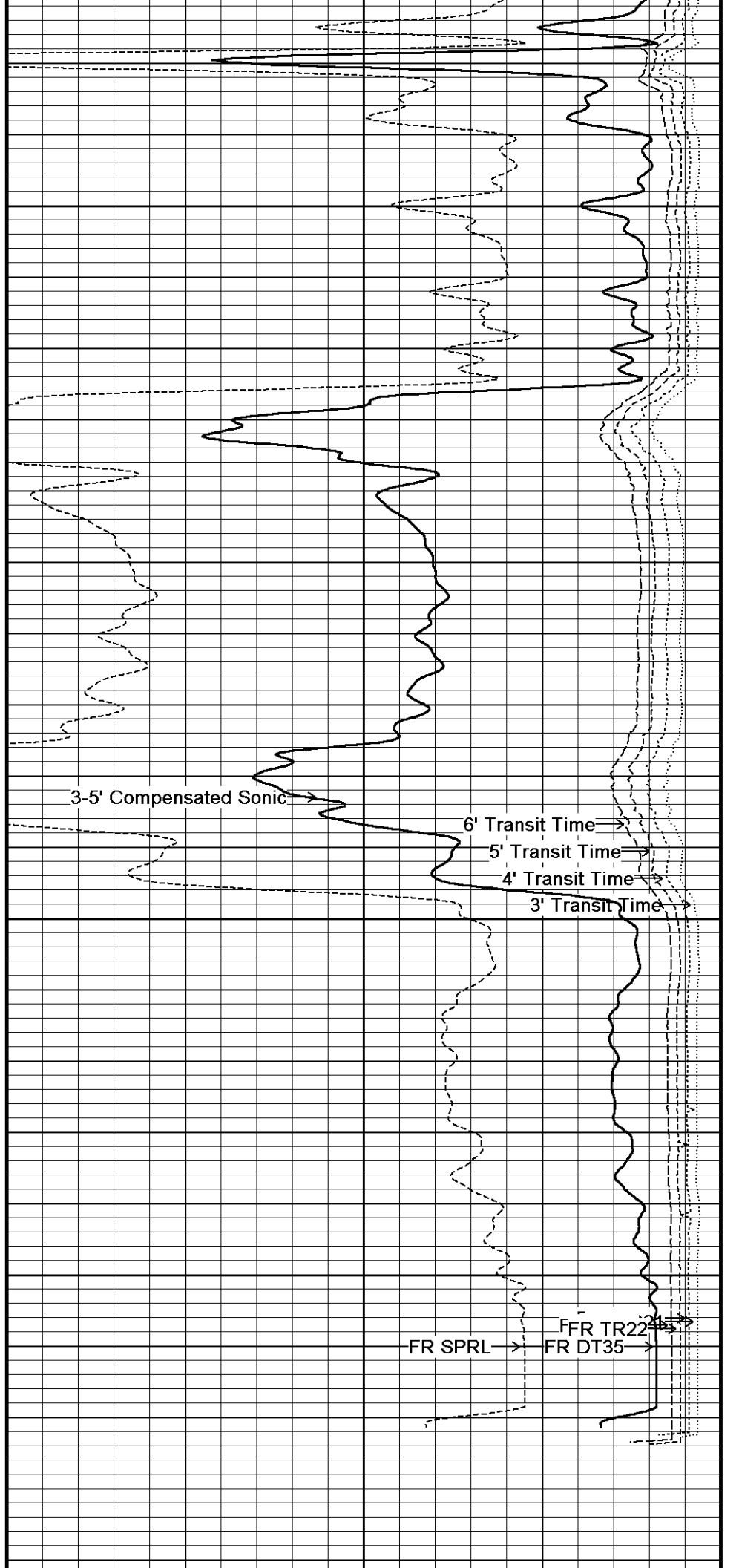
108°

4750

107°

4800

4850



3-5' Compensated Sonic →

6' Transit Time →

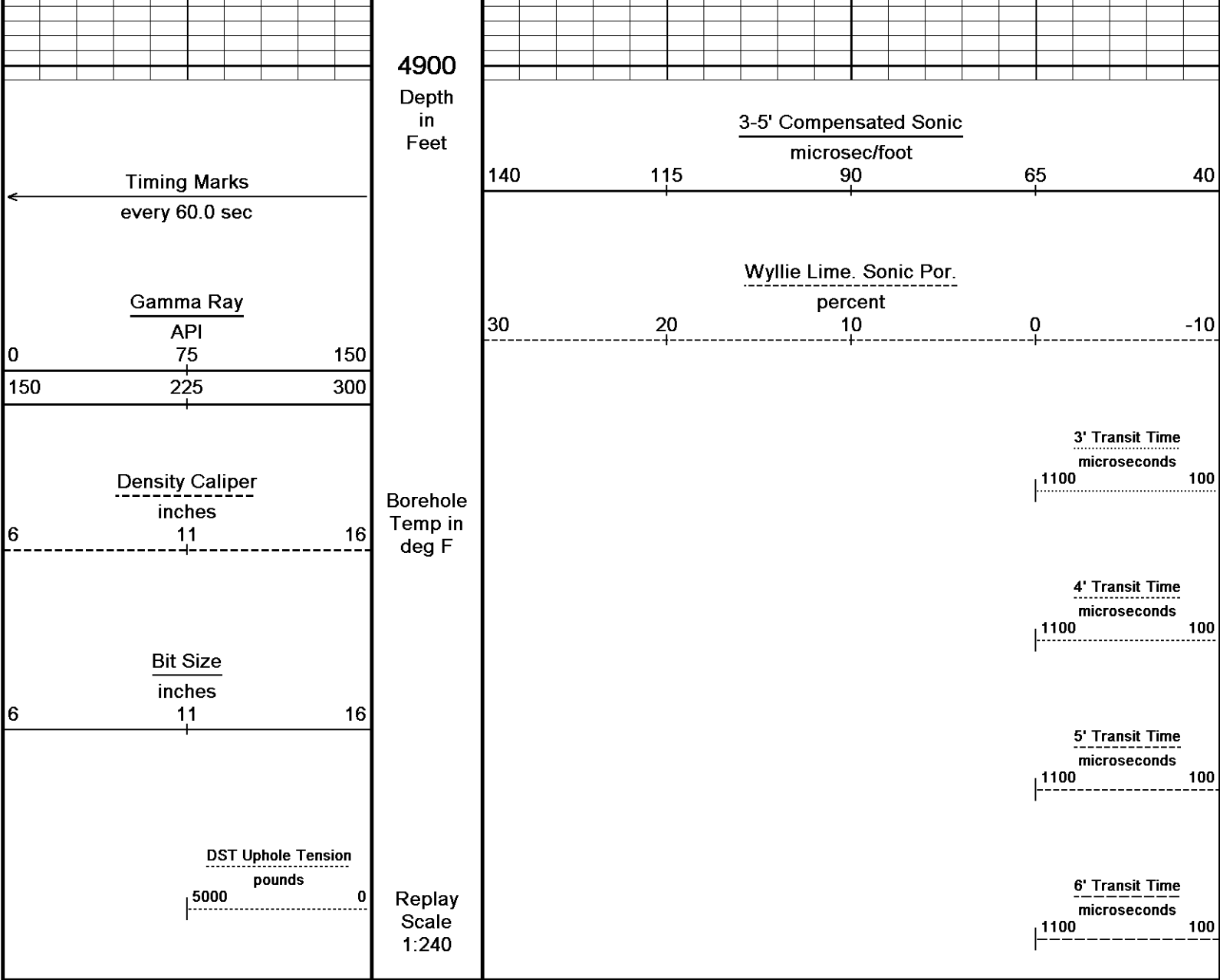
5' Transit Time →

4' Transit Time →

3' Transit Time →

FR SPRL →

FFR TR22 →
FR DT35 →

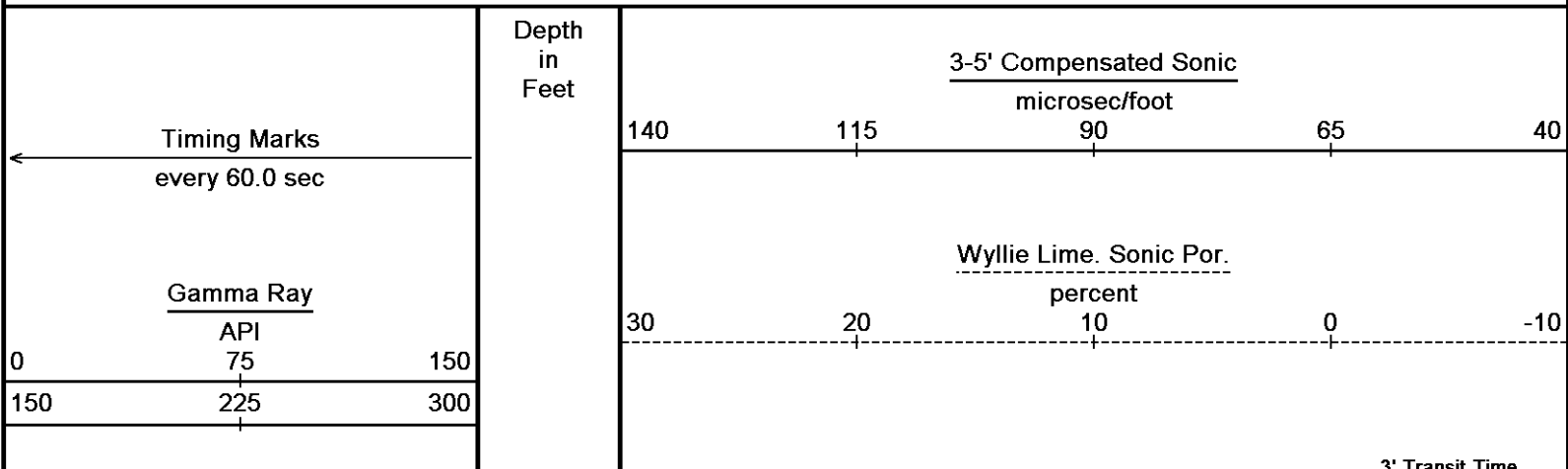


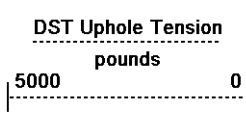
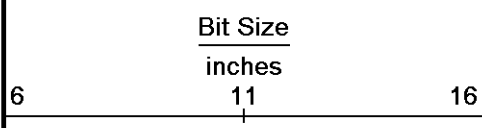
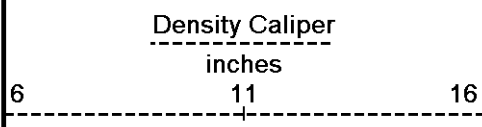
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 30-MAR-2013 15:10
 Filename: C:\Minimus 13.04.8492\Data\Shakespeare Nighte...\Shakespeare Nightengale #1-28_003.dta Recorded on 30-MAR-2013 12:03
 System Versions: Logged with 13.04.8492 Plotted with 13.04.8492

↑ **5 INCH MAIN** ↑

↓ **REPEAT SECTION** ↓

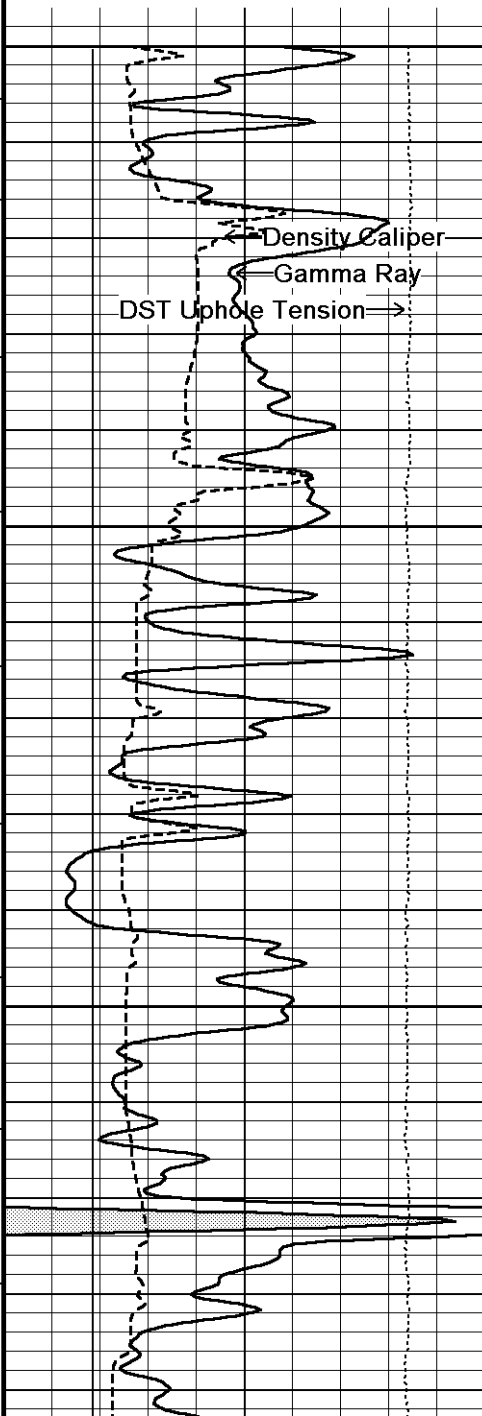
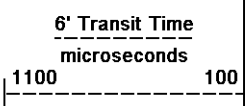
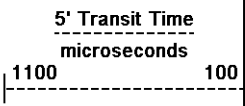
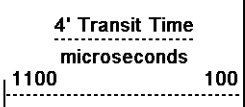
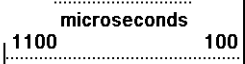
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 System Versions: Logged with 13.04.8492 Processed with 13.04.8492 Plotted with 13.04.8492





Borehole
Temp in
deg F

Replay
Scale
1:240



4400

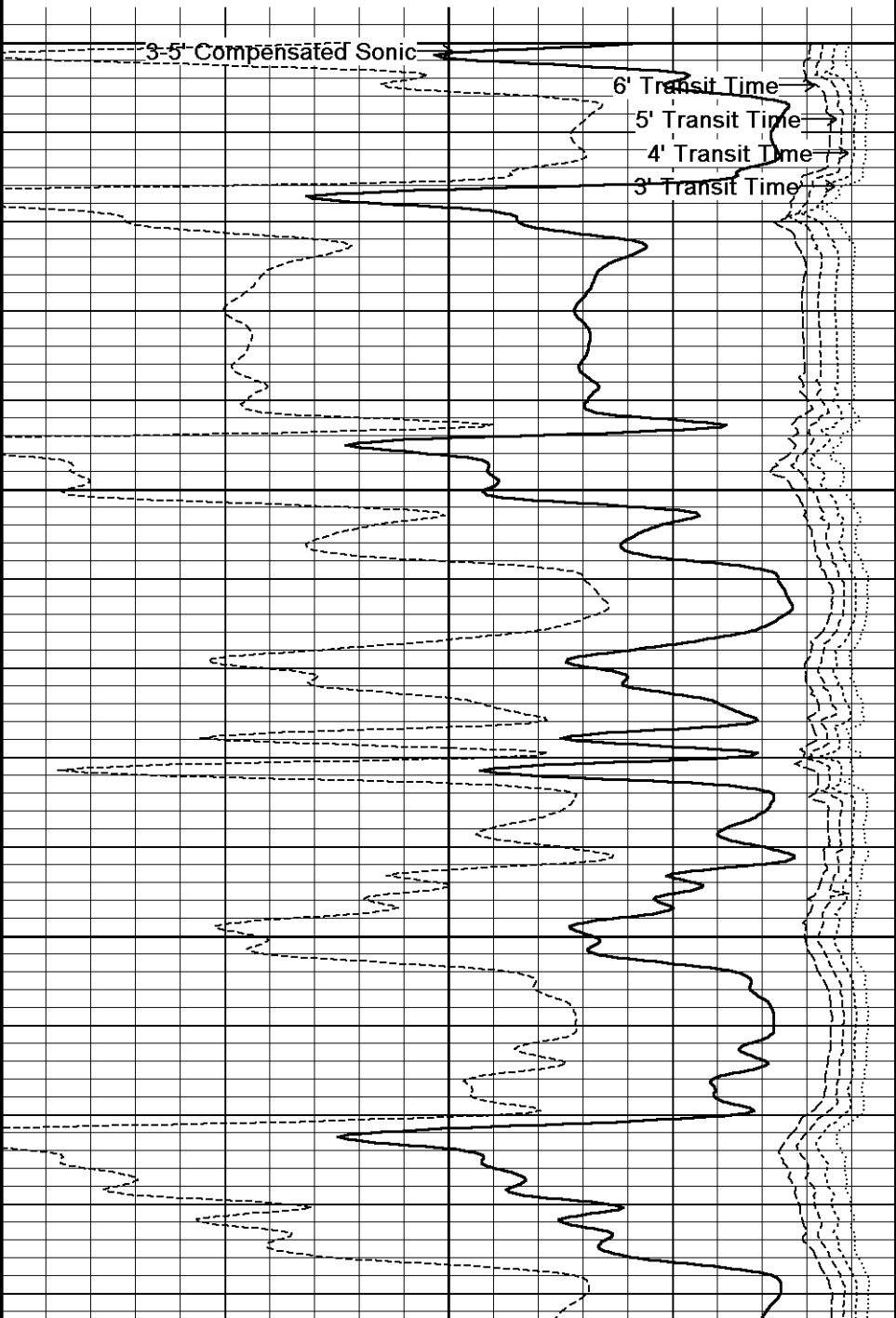
105°

4450

105°

4500

105°





4550

105°

4600

106°

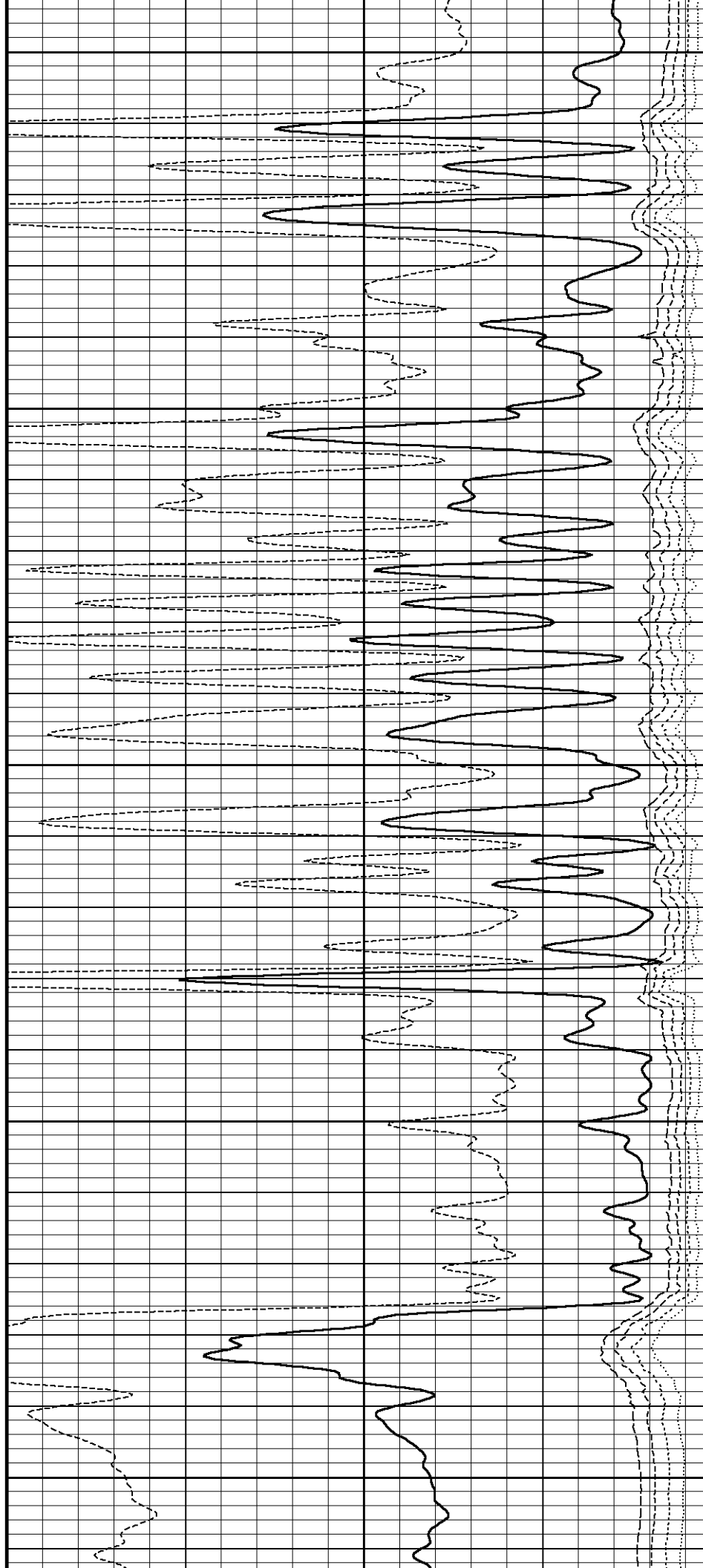
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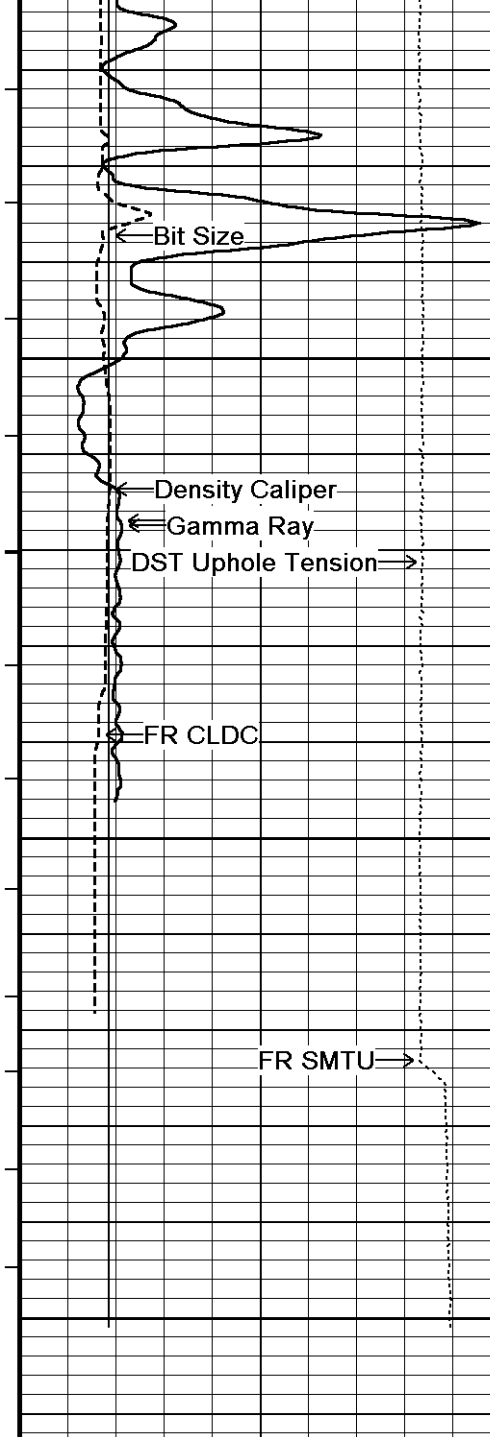
107°

4700

107°

4750





106°

Wyllie Lime. Sonic Por. →

4800

3-5' Compensated Sonic →

6' Transit Time →

5' Transit Time →

4' Transit Time →

3' Transit Time →

105°

4850

FR SPRL →

FR TR22 →

FR DT35 →

4900

4912

Depth
in
Feet

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

Timing Marks
every 60.0 sec

Gamma Ray

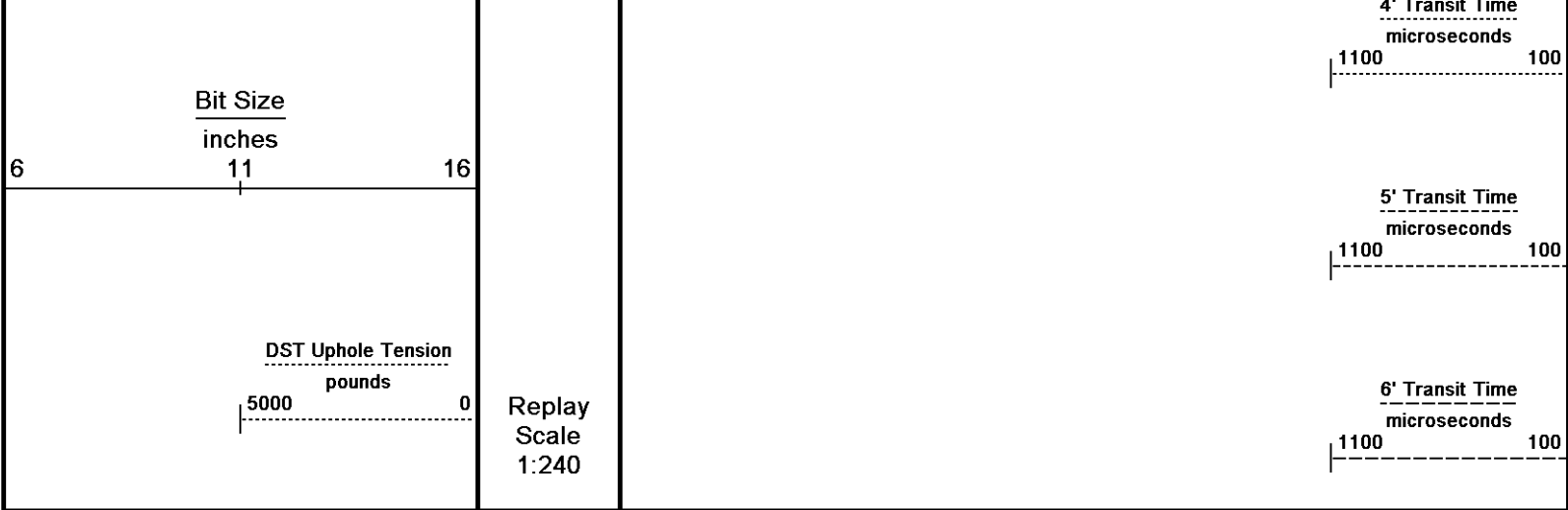
API

0 75 150
150 225 300

Density Caliper
inches

6 11 16

Borehole
Temp in
deg F



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 30-MAR-2013 15:10
 Filename: C:\Minimus 13.04.8492\Data\Shakespeare Nighte...\Shakespeare Nightengale #1-28_002.dta Recorded on 30-MAR-2013 11:03
 System Versions: Logged with 13.04.8492 Processed with 13.04.8492 Plotted with 13.04.8492

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 13.04.8492\Data\Shakespeare Nightengale #1-28\Shakespeare Nightengale #1-28_002.dta

General Constants All 000 Last Edited on 30-MAR-2013,09:17

General Parameters		
Mud Resistivity	0.490	ohm-metres
Mud Resistivity Temperature	72.000	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	5.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Six Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	

Down-hole Tension Calibration SMS 0 Field Calibration on 29-MAR-2013 11:57

Reading No	Measured	Calibrated (lbs)
1	13764.62	0.00
2	14299.14	460.00

Gamma Calibration MCG-B 34 Field Calibration on 28-MAR-2013 11:13

	Measured	Calibrated (API)
Background	71	49
Calibrator (Gross)	1120	774
Calibrator (Net)	1049	725

Gamma Constants MCG-B 34 Last Edited on 30-MAR-2013,09:13

Gamma Calibrator Number	GR38	
Mud Density	1.11	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-B 34 Field Calibration on 29-MAR-2013,12:58

Reference 1	Measured	101.0	Calibrated (mV)	100.0
Reference 2		-99.0		-100.0

High Resolution Temperature Calibration MCG-B 34			Field Calibration on 29-MAR-2013,12:58	
	Measured	Calibrated(Deg F)		
Lower	50.00	50.00		
Upper	75.00	75.00		

High Resolution Temperature Constants MCG-B 34		Last Edited on 29-MAR-2013,12:58		
Pre-filter Length	11			

Micro Laterolog Calibration MMR-A 11				Base Calibration on 31-DEC-1999 00:00	
				Field Check on 31-DEC-1999 00:00	
Base Calibration					
	Measured		Calibrated (ohm-m)		
	Ref 1	Ref 2	Ref 1	Ref 2	
	0.0	0.0	0.0	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.	20.00		Degrees C		
Mud Cake Resistivity Source	Constant Value				
Temp. Source Rmc Correc.	MCG External Temperature				

Micro Normal and Micro Inverse Calibration MMR-A 11				Base Calibration on 08-MAR-2013 17:36	
				Field Check on 28-MAR-2013 11:05	
Base Calibration					
	Measured		Calibrated (ohm-m)		
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2	
Micro Normal	12.4	60.0	5.0	25.0	
Micro Inverse	15.5	77.5	5.0	25.0	
Channel	Base Check (ohm-m)		Field Check (ohm-m)		
Micro Normal	76.3		76.3		
Micro Inverse	58.7		58.7		

Micro Normal and Micro Inverse Constants MMR-A 11				Last Edited on 05-NOV-2012,13:54	
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		

Caliper Calibration MMR-A 11				Base Calibration on 08-MAR-2013 17:30	
				Field Calibration on 28-MAR-2013 11:03	
Base Calibration					
Reading No	Measured		Calibrator Size (in)		
1	13647		5.98		
2	16765		7.97		
3	19976		9.86		
4	23885		11.92		
5	0		0.00		
6	N/A		N/A		
Field Calibration					
	Measured Caliper (in)		Actual Caliper (in)		
	6.02		5.98		

Neutron Calibration MDN-A.B 65				Base Calibration on 13-MAR-2013 16:17	
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Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2980	92	3714	110
Ratio	32.499		33.764	

Field Calibrator at Base

	Calibrated (cps)
	1736
Ratio	0.705

Field Check

	Calibrated (cps)
	1736
Ratio	0.688

Neutron Constants MDN-A.B 65

Last Edited on 29-MAR-2013,11:23

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	0.00	kpsi	
Temperature Source	None		
Temperature	20.00	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	None		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

FE Calibration MFE-B.J 352

Base Calibration on 16-JAN-2013 10:20

Field Check on 28-MAR-2013 11:02

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	964.3	126.8
Base Check		281.2
Field Check		281.5

FE Constants MFE-B.J 352

Last Edited on 29-MAR-2013,11:23

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	

Sonic Constants MSS-C.K 330

Last Edited on 29-MAR-2013,11:23

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
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-DEC-2012,10:54

	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 29-MAR-2013,12:59

Pre-filter Length	11
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Induction Calibration MAI-A.A 45

Base Calibration on 26-JUL-2012,09:22
Field Check on 28-MAR-2013 11:01

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
Channel 1	14.4	472.6	9.3	966.2
Channel 2	5.7	374.0	7.6	821.4
Channel 3	3.4	261.2	5.2	566.0
Channel 4	2.5	133.9	2.6	279.2

Array Temperature	78.4	Deg F
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Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1			18.3	3850.9
2			31.7	3628.9
3			28.6	3048.9
4			18.3	2078.8

Deep	16.0	1910.7		
Medium	42.5	4060.0		
Shallow	49.5	5482.7		
Array Temperature		58.1	Deg F	

Induction Constants MAI-A.A 45

Last Edited on 29-MAR-2013,12:59

Induction Model	RtAP-WBM			
Caliper for Borehole Corr.	Density Caliper			
Hole Size for Borehole Correction	2.500	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	

Caliper Calibration MPD-B 31

Base Calibration on 28-MAR-2013 13:43

Field Calibration on 28-MAR-2013 13:47

Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	16832	3.99	
2	24690	5.98	
3	33328	7.97	
4	41600	9.86	
5	50976	11.92	
6	N/A	N/A	

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.02	5.98

Photo Density Calibration MPD-B 31

Base Calibration on 13-MAR-2013 15:17

Field Check on 28-MAR-2013 13:51

Density Calibration				
Base Calibration				
		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	46119	23502	59556	30836
Reference 2	19149	1933	24941	2541
Field Check at Base				
	681.1	838.4		

Field Check

679.6 841.1

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	125	604		
Reference 1	19219	46004	0.421	0.371
Reference 2	5674	19062	0.301	0.272

Field Check at Base

125.1 603.7

Field Check

125.6 602.3

Density Constants MPD-B 31

Last Edited on 30-MAR-2013,09:12

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	1.11	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

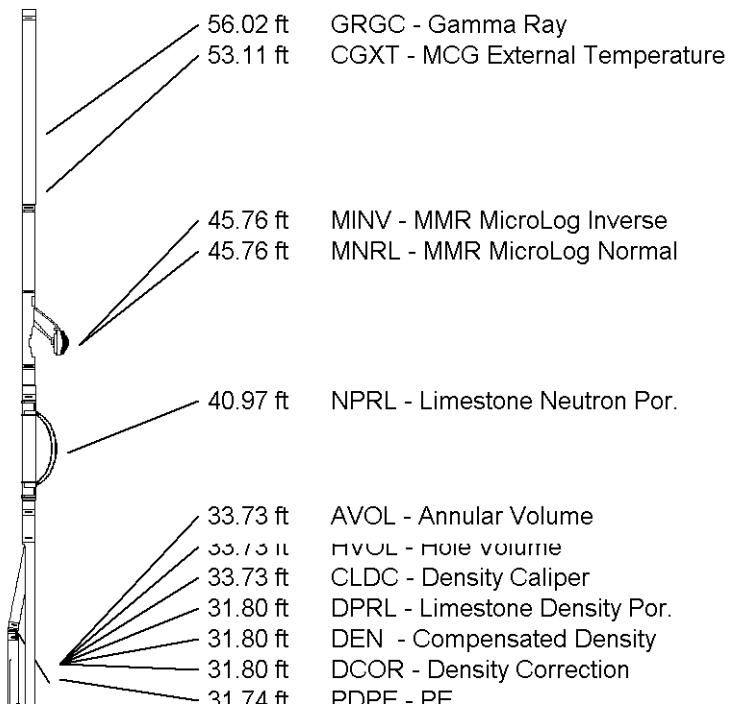
C:\Minimus 13.04.8492\Data\Shakespeare Nightengale #1-28\Shakespeare Nightengale #1-28_002.dta

Compact Comms Gamma
MCG-B 34 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

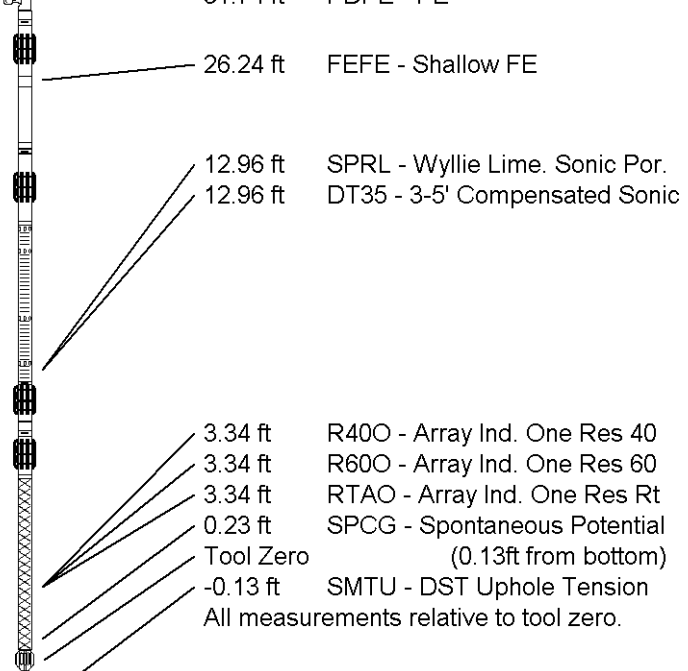


Compact Focused Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Sonic
MSS-C.K 330 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: 61.30 ft Weight: 456.4 lb



COMPANY SHAKESPEARE OIL COMPANY
WELL NIGHTINGALE #1-28
FIELD WILDCAT
PROVINCE/COUNTY SCOTT
COUNTRY/STATE UNITED STATES / KANSAS

Elevation Kelly Bushing	3140.00	feet	First Reading	4860.00	feet
Elevation Drill Floor	3138.00	feet	Depth Driller	4875.00	feet
Elevation Ground Level	3130.00	feet	Depth Logger	4873.00	feet



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