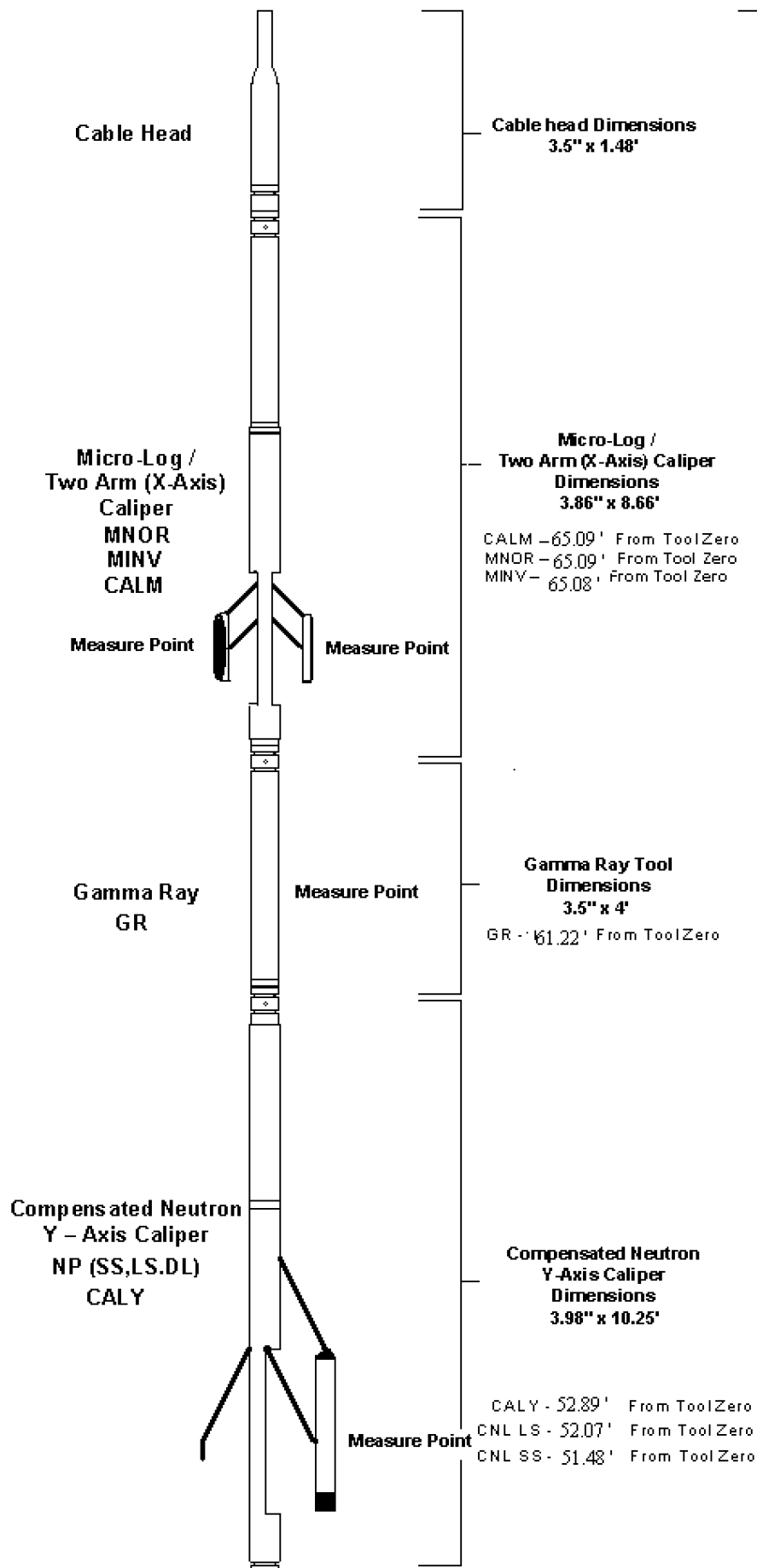


**DUAL INDUCTION - SP / BHC SONIC /
GAMMA RAY / LITHO-DENSITY / X CALIPER
COMPENSATED NEUTRON / Y-CALIPER
MICRO - LOG / M-CALIPER**



Digital Telemetry

**Digital Telemetry Section
Dimensions**
3.5" x 3.15'

**Tool String
Length Total**
73.64 '

**Compensated
Litho-Density (Pe)
X – Axis Caliper**

DP(SS,LS,DL)
RHOB
DRHO
PE
CALX
Measure Point

**Compensated Litho-Density
X-Axis Caliper
Dimensions**
3.98" x 9.35'

CALX - 38.94' From ToolZero
LDT w1 -
LDT w2 - -38.68' From ToolZero
LDT w3 -
LDT w4 -
LDT SS - 38.19' From ToolZero

**Borehole
Compensated
Sonic**

SP(SS,LS,DL)
DT
TTI
VDL
TT

Measure Point
Tool First Reading
Point

T-1
Transmitter 1

**Borehole Compensated Sonic
Tool Dimensions**
3.5" x 15.75'

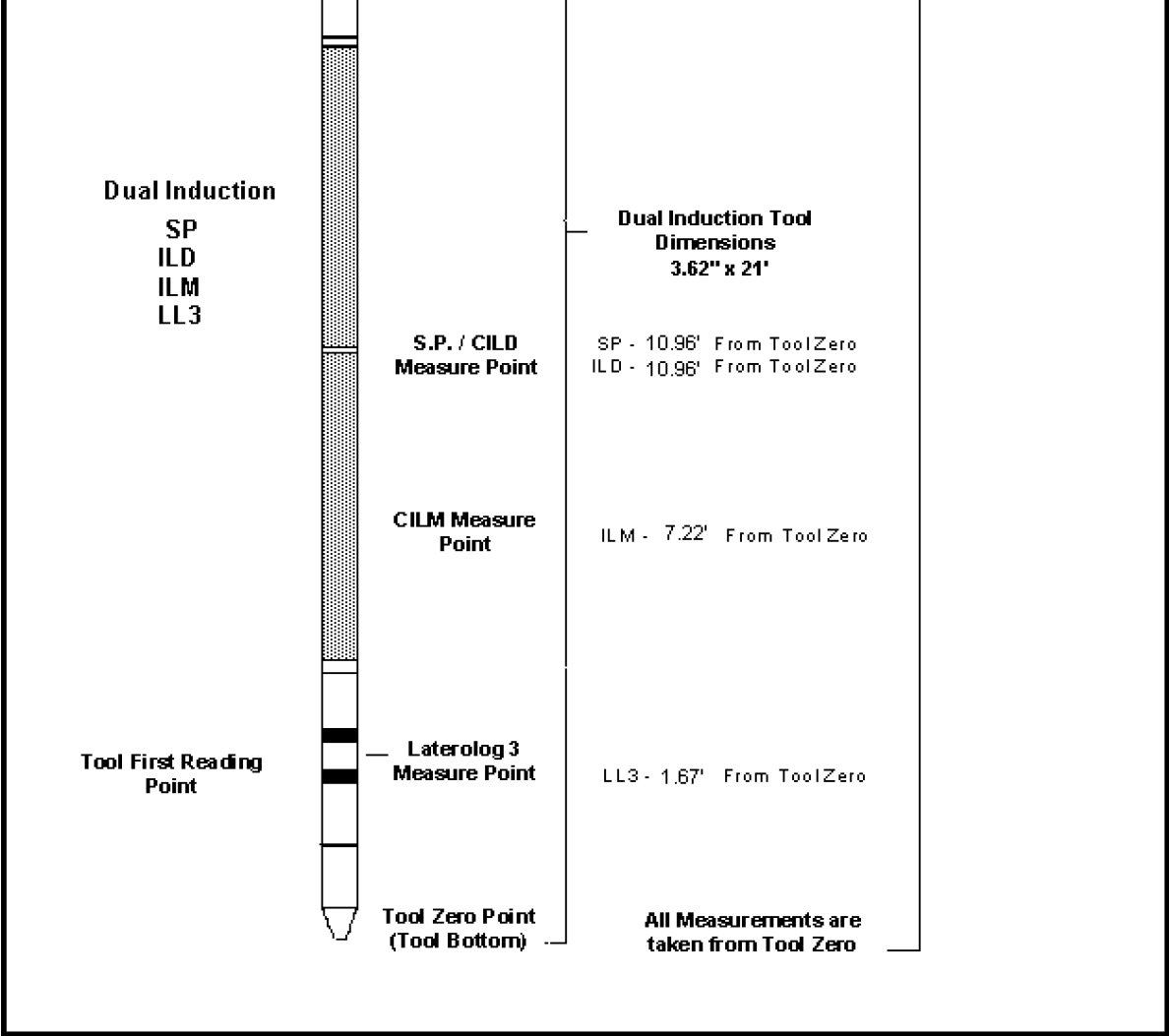
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

R-1
Receiver 1

R-2
Receiver 2

T2R1 - 28.54' From Tool Zero
T2R2 - 28.37' From Tool Zero

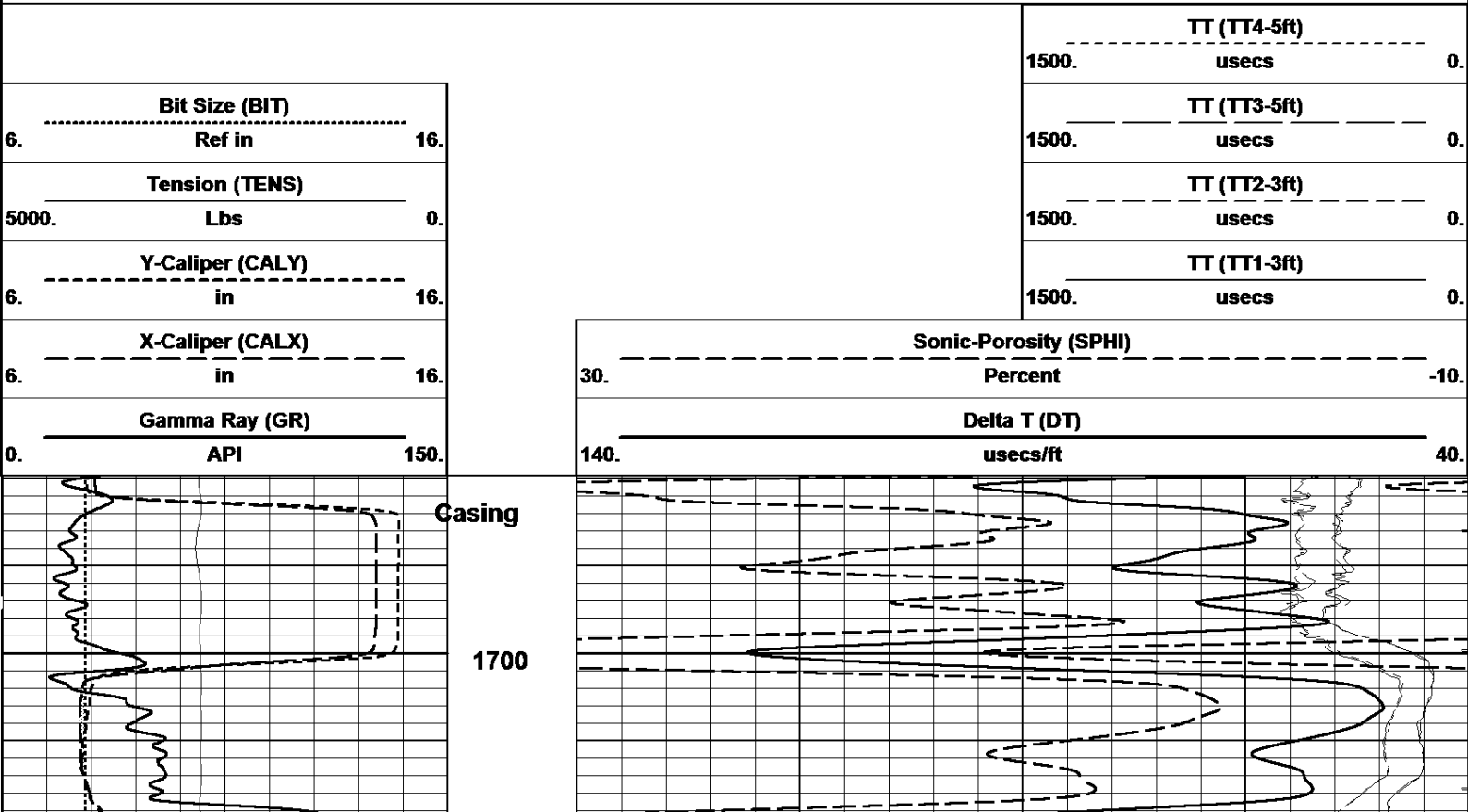
T-2
Transmitter 2

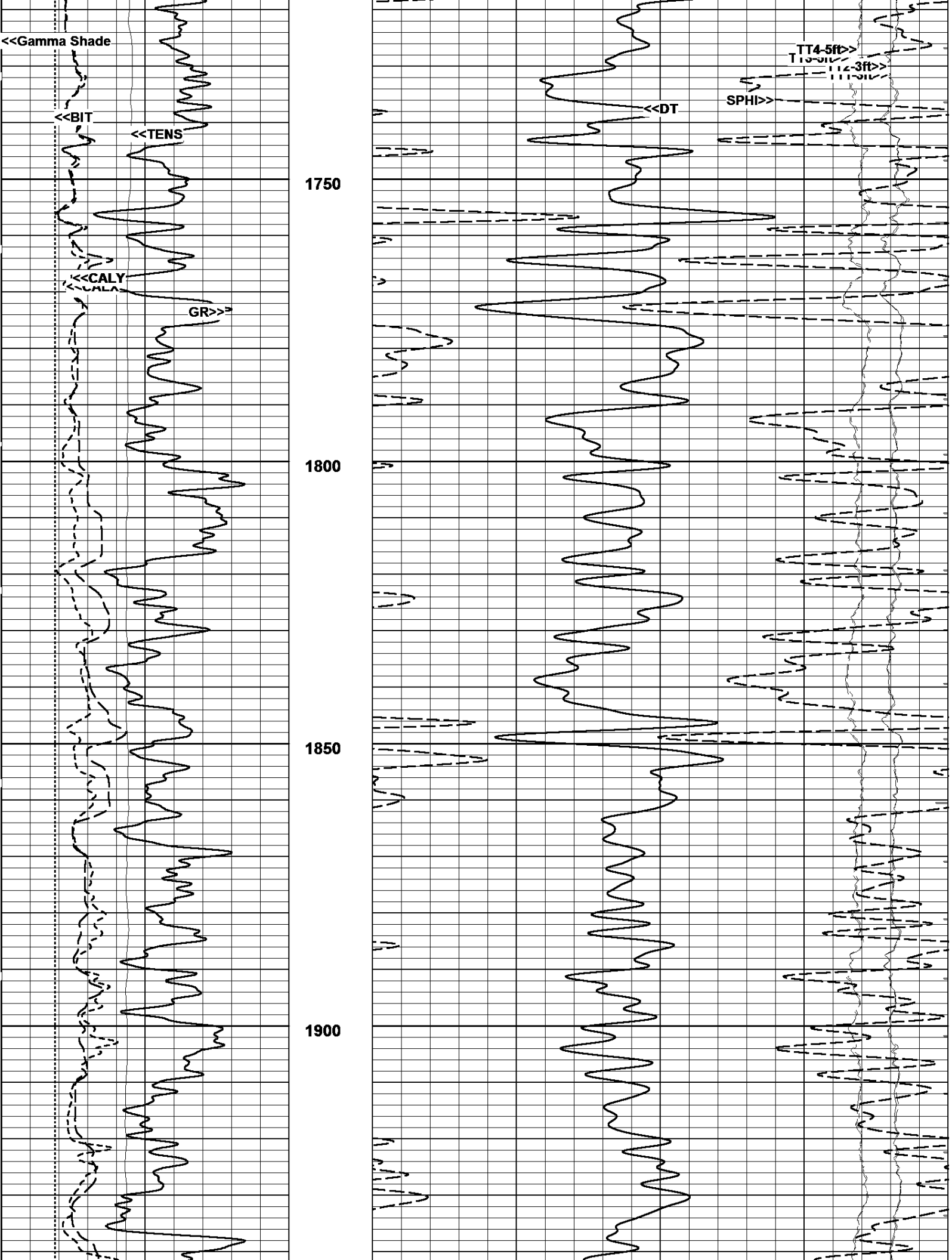


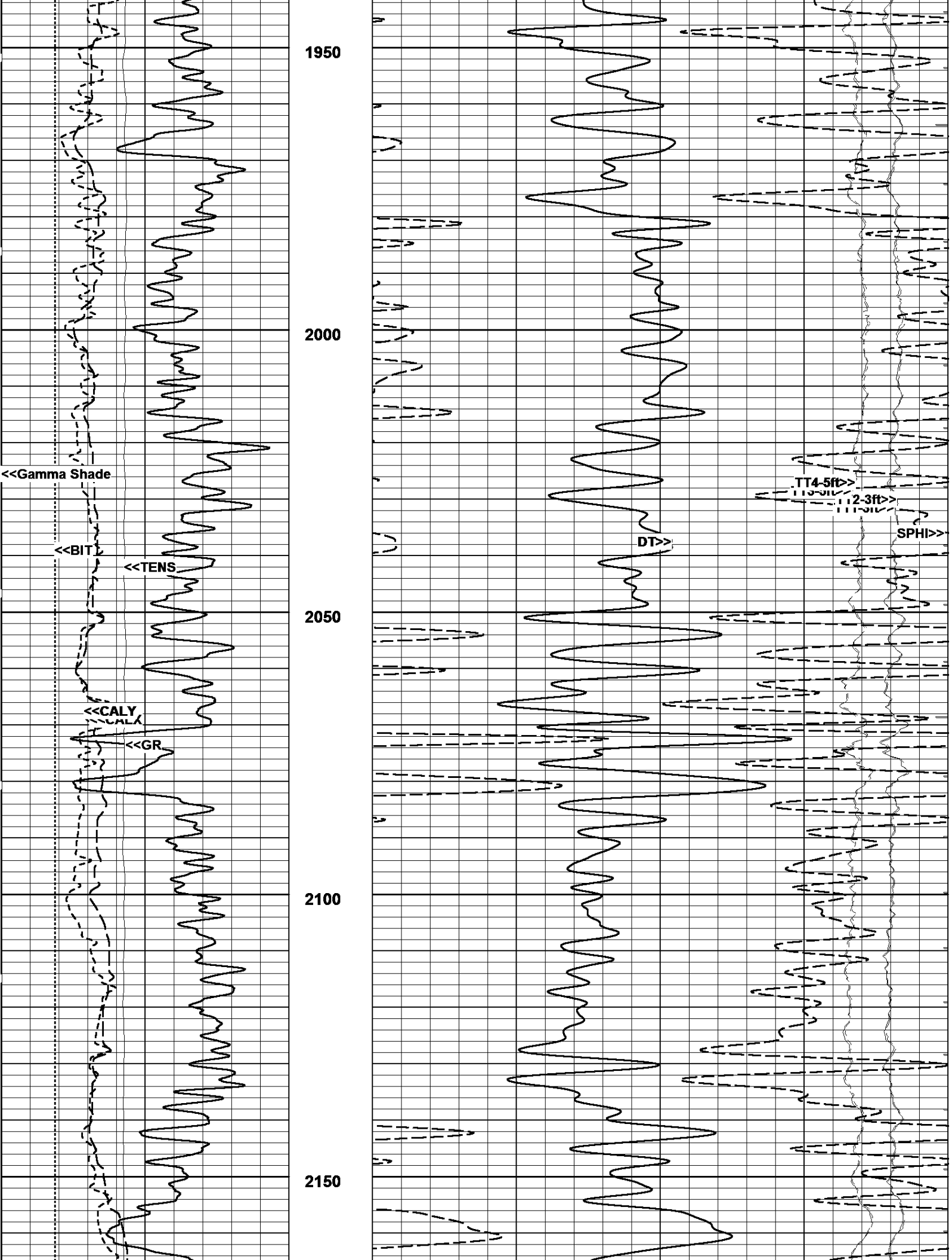
02/14/2014
13:23:48 => End Time

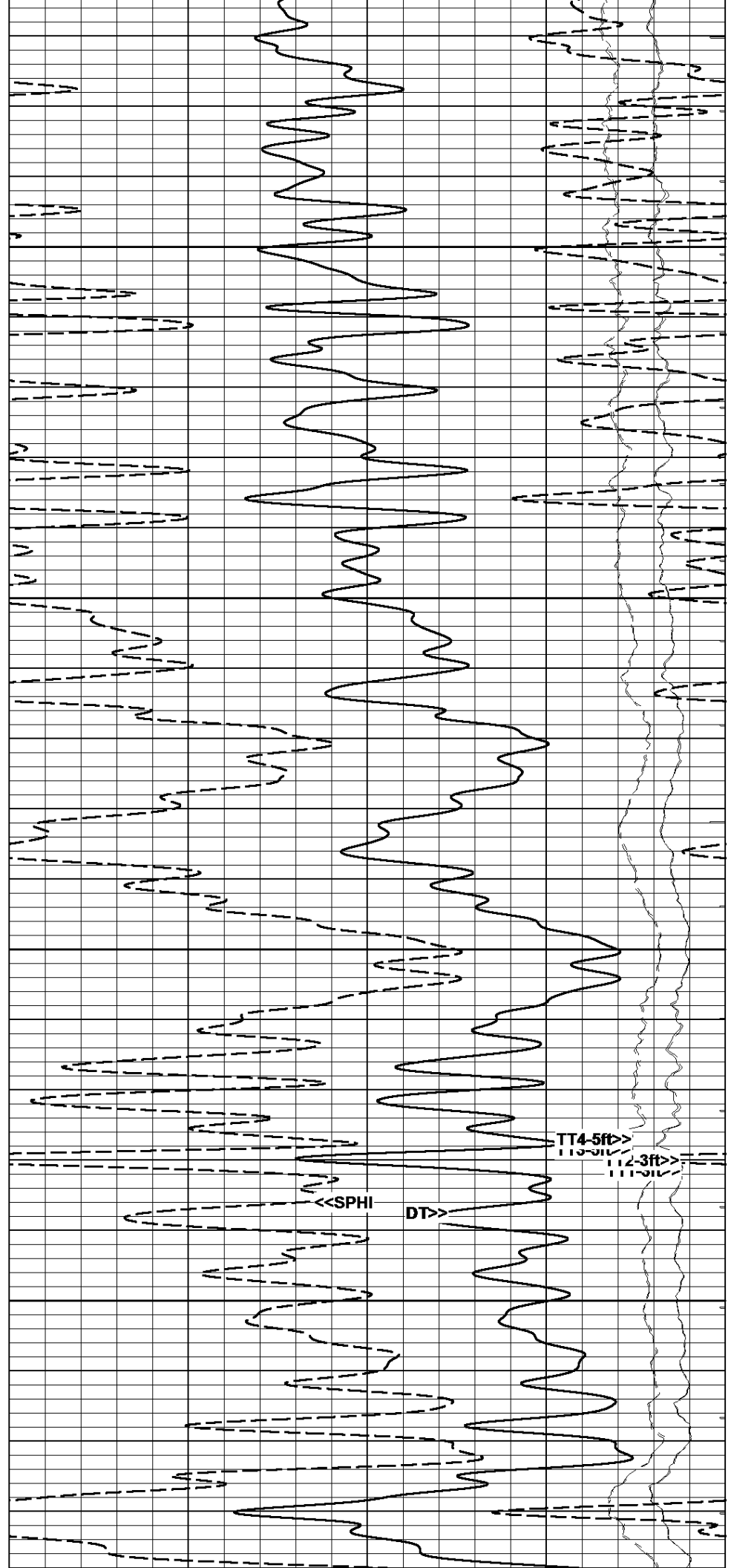
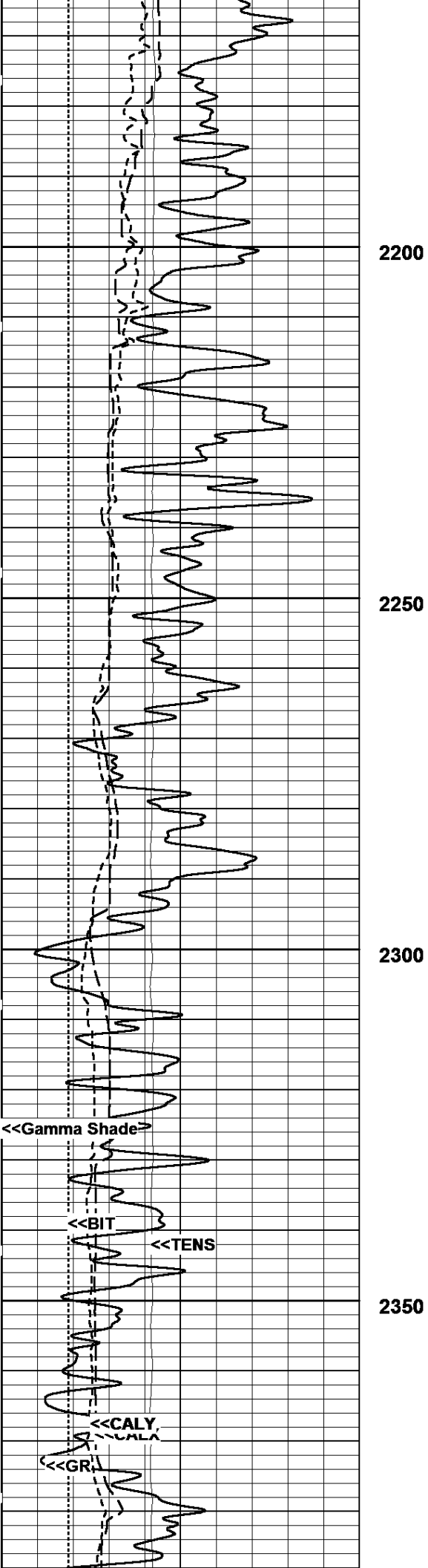
MAIN PASS (5"/100Ft)

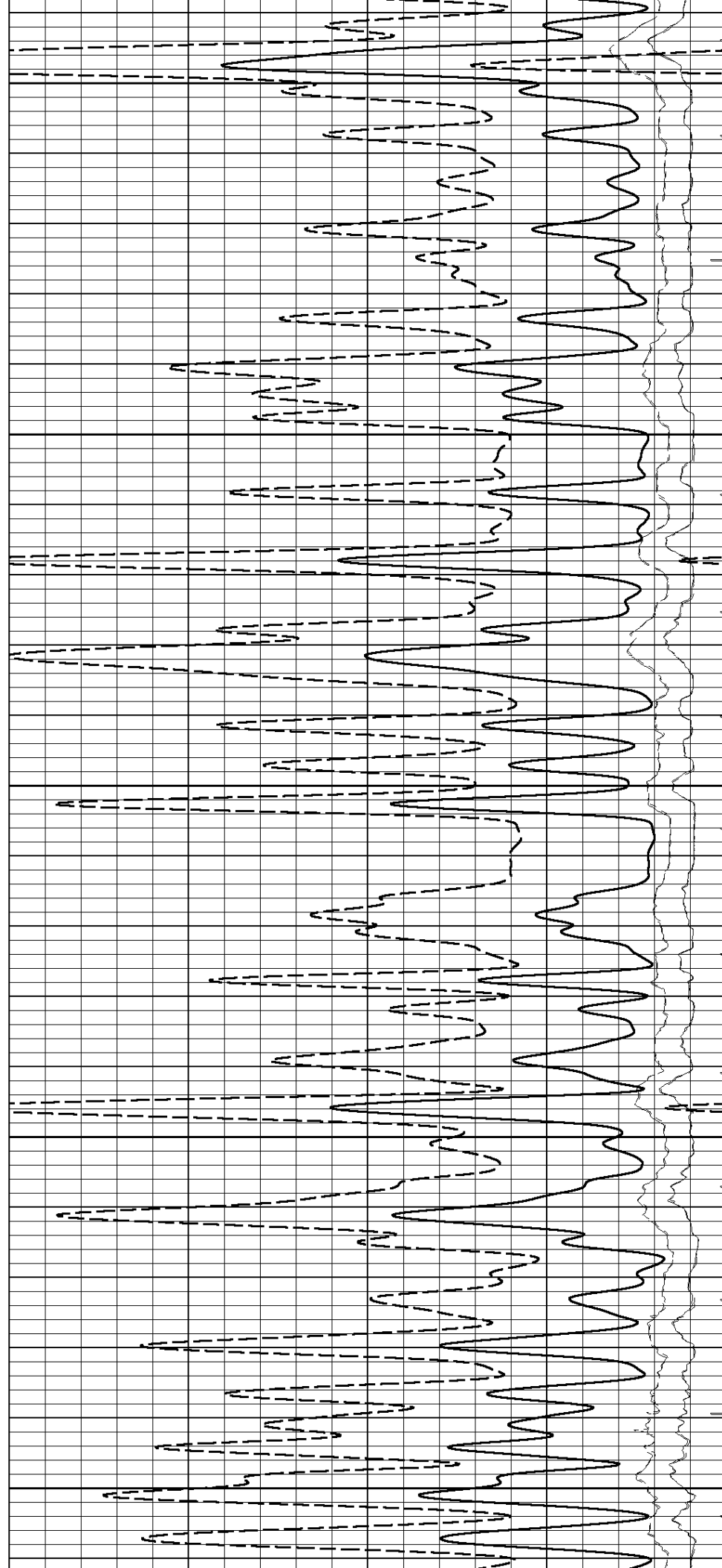
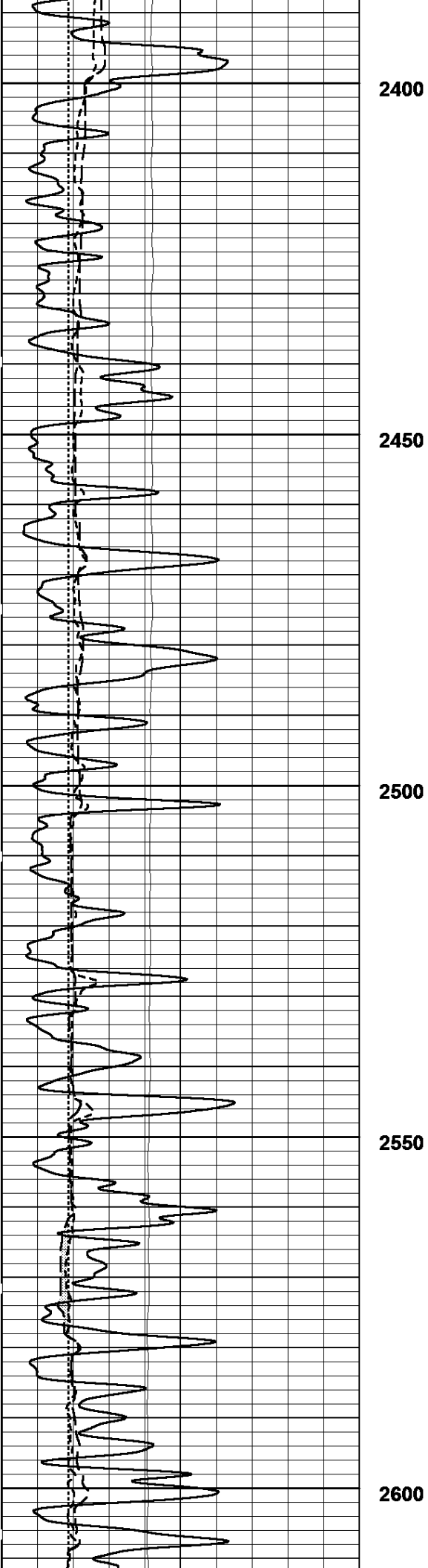
Log UP - (VER 11.17)
End Depth=> 1679.90 Feet

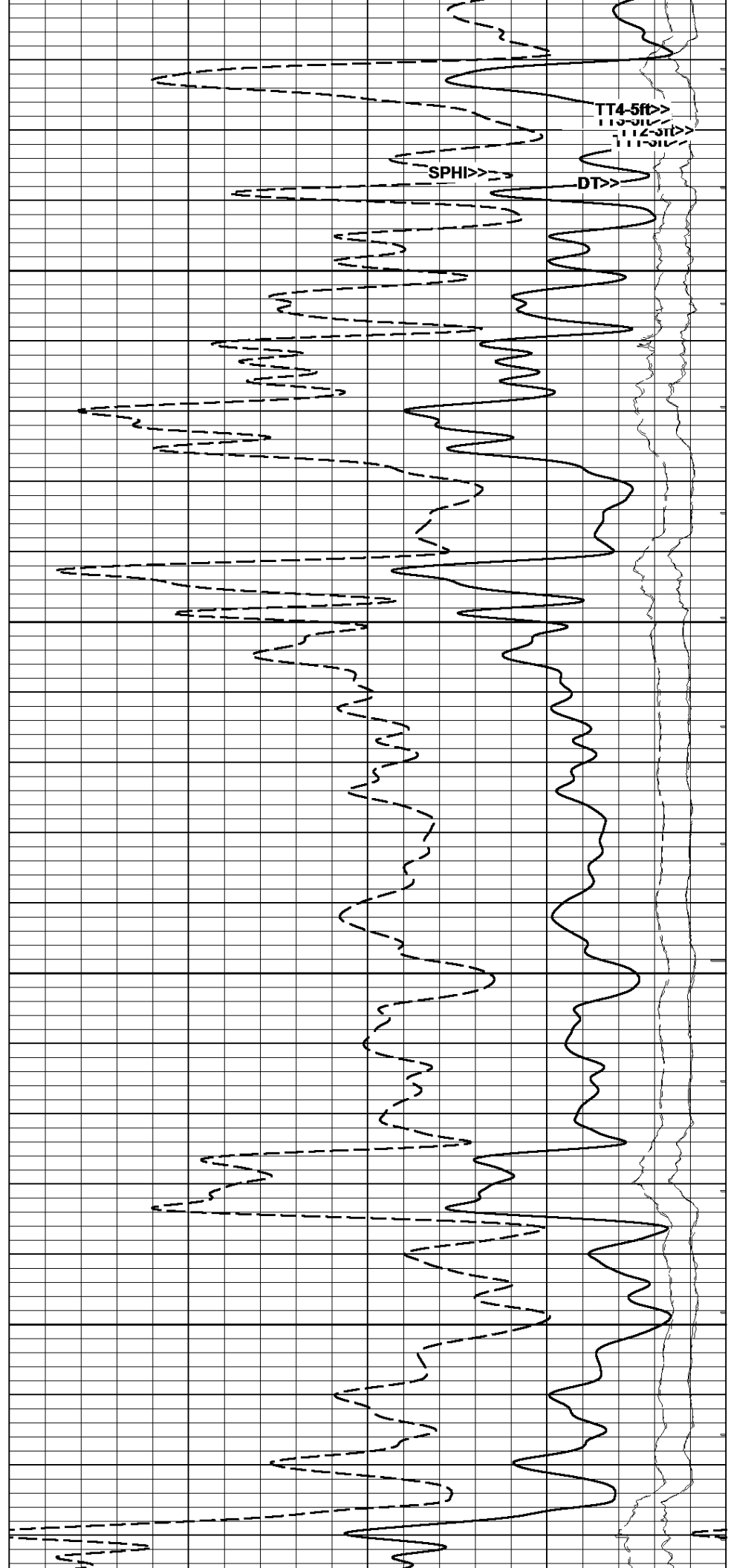
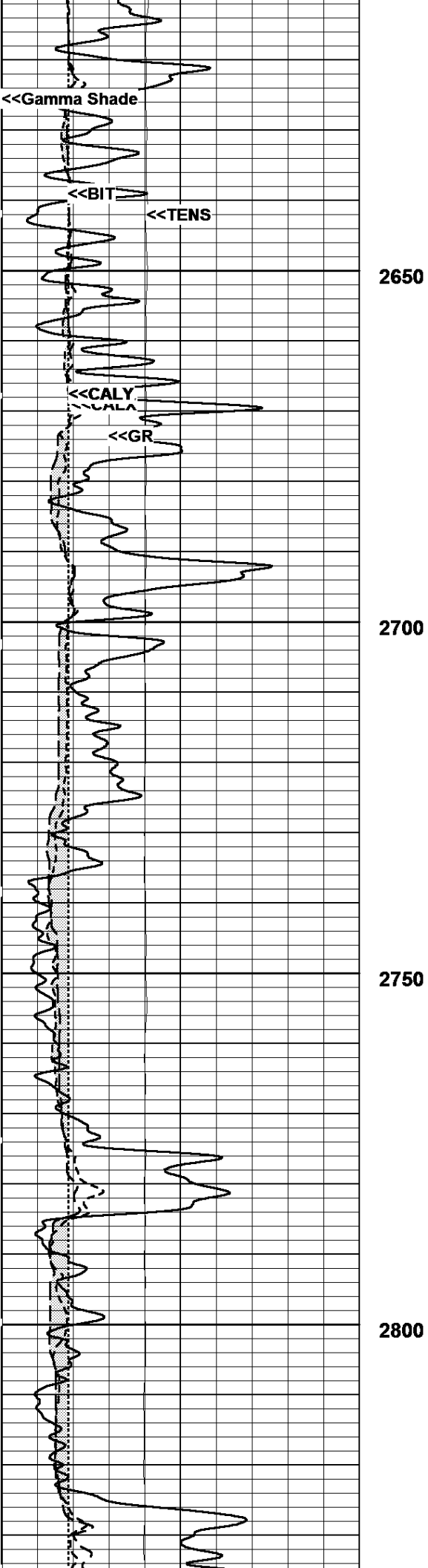


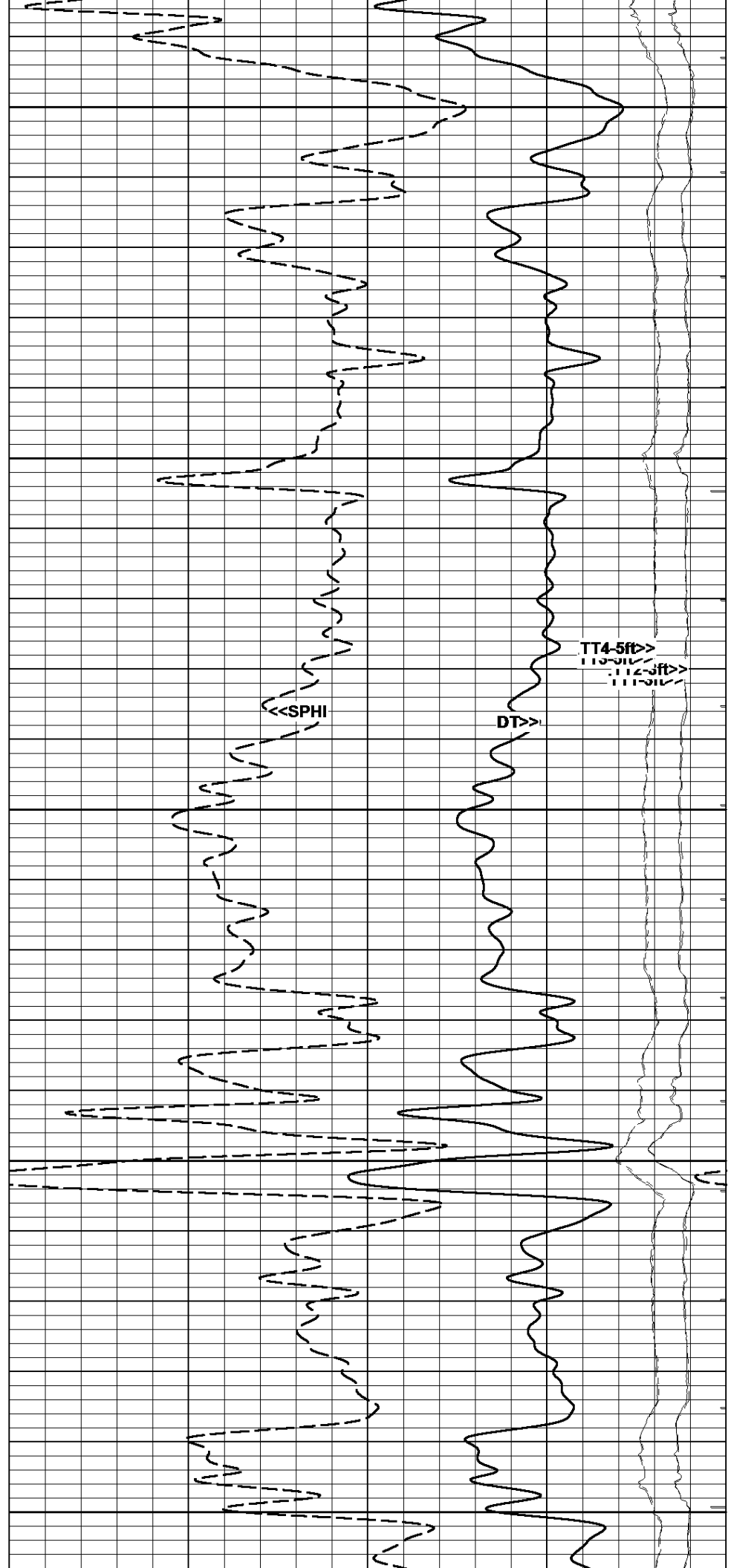
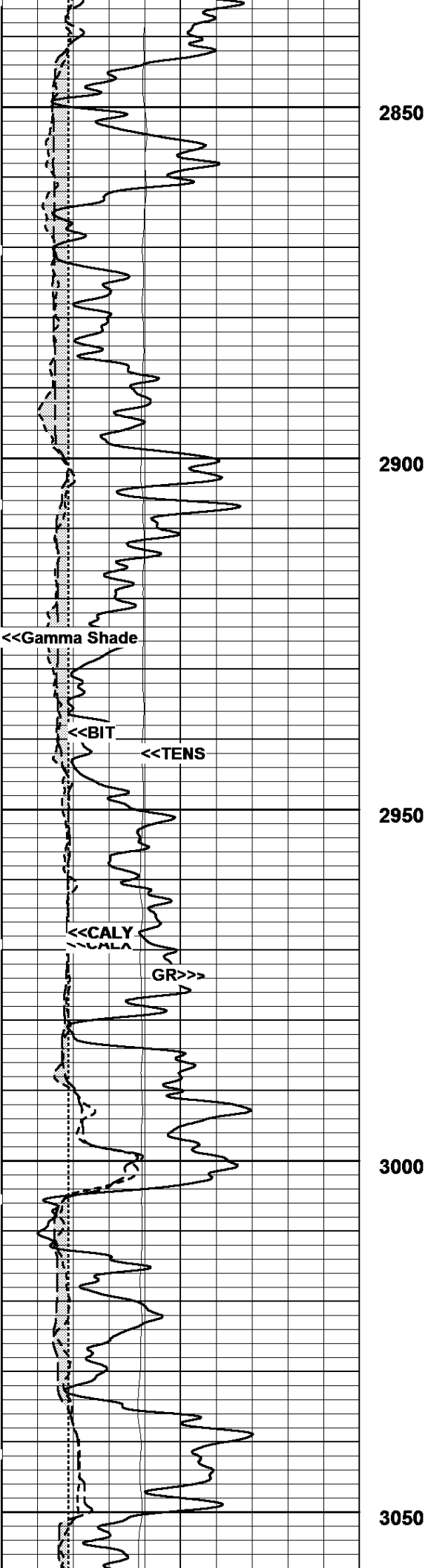


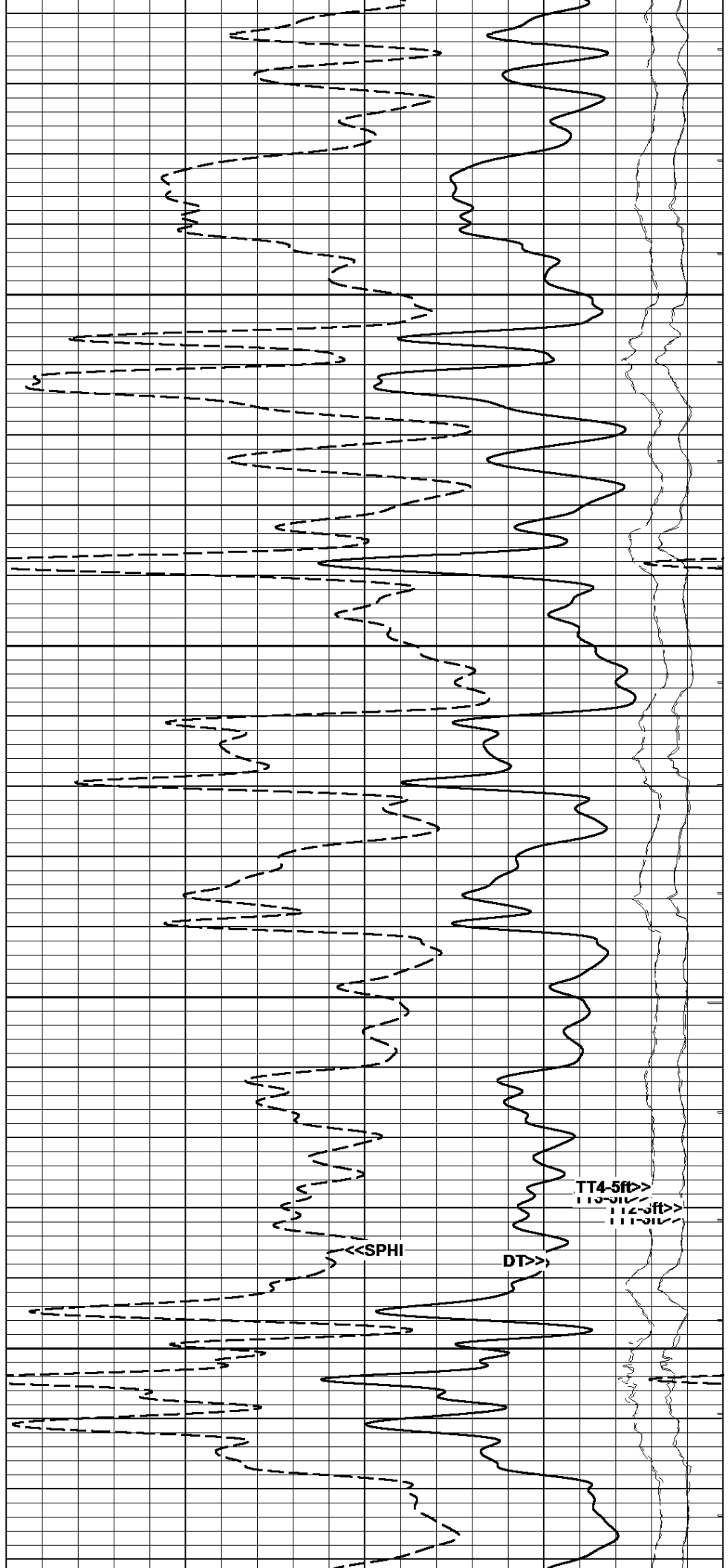
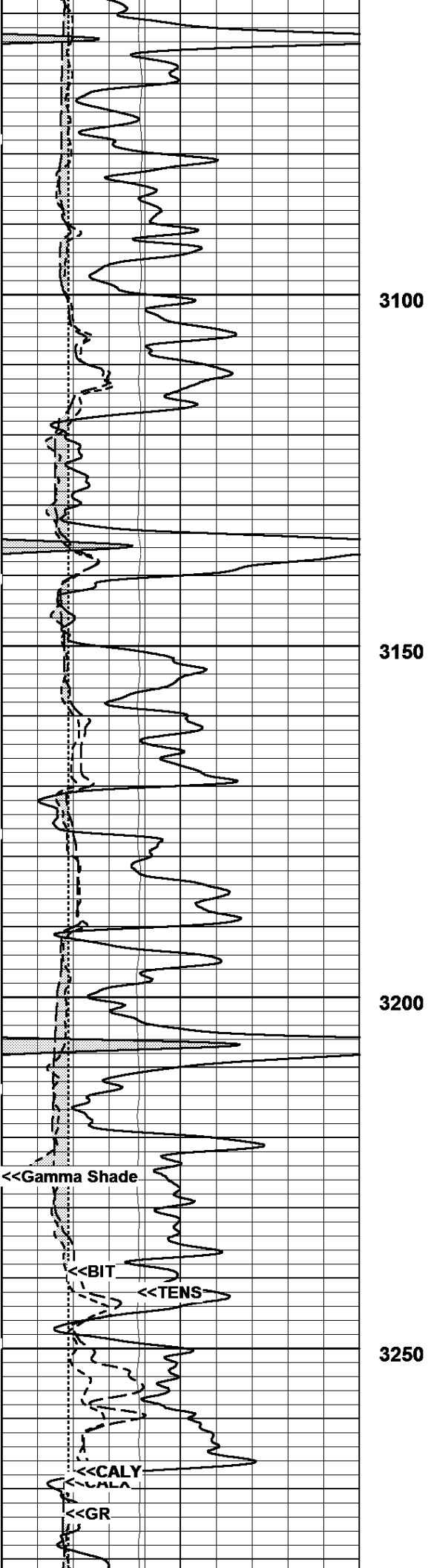


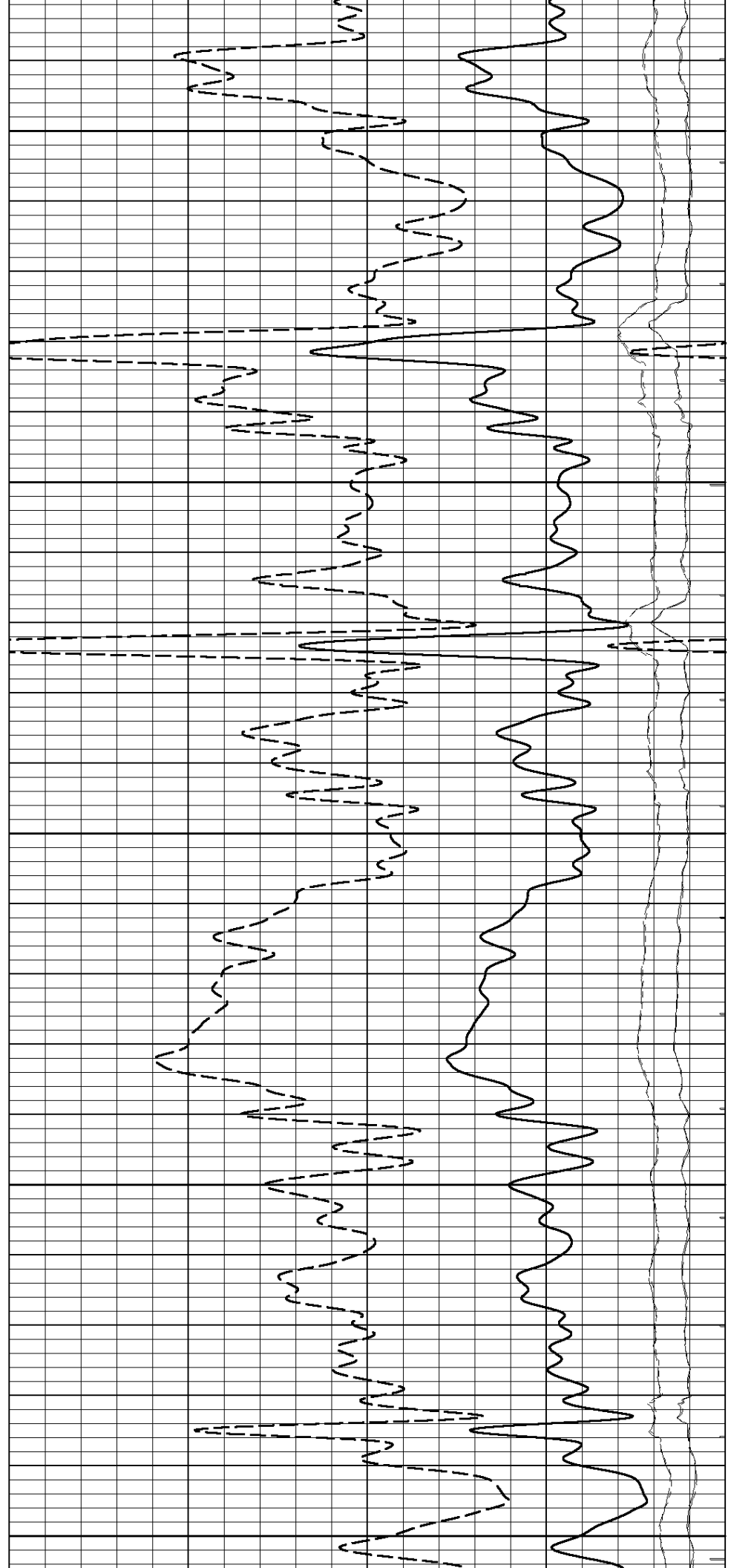
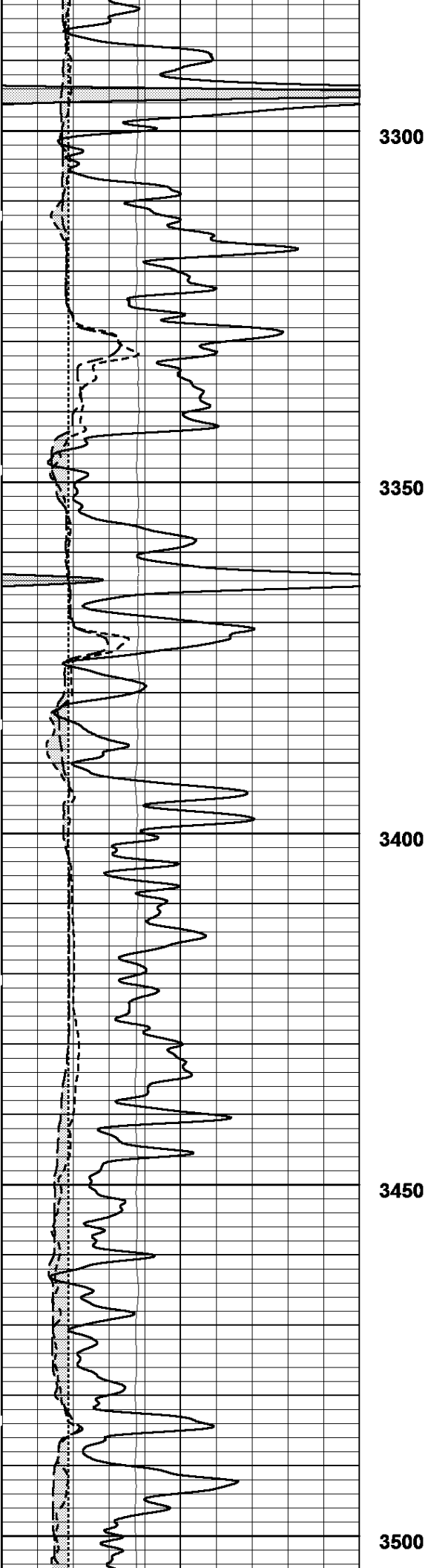


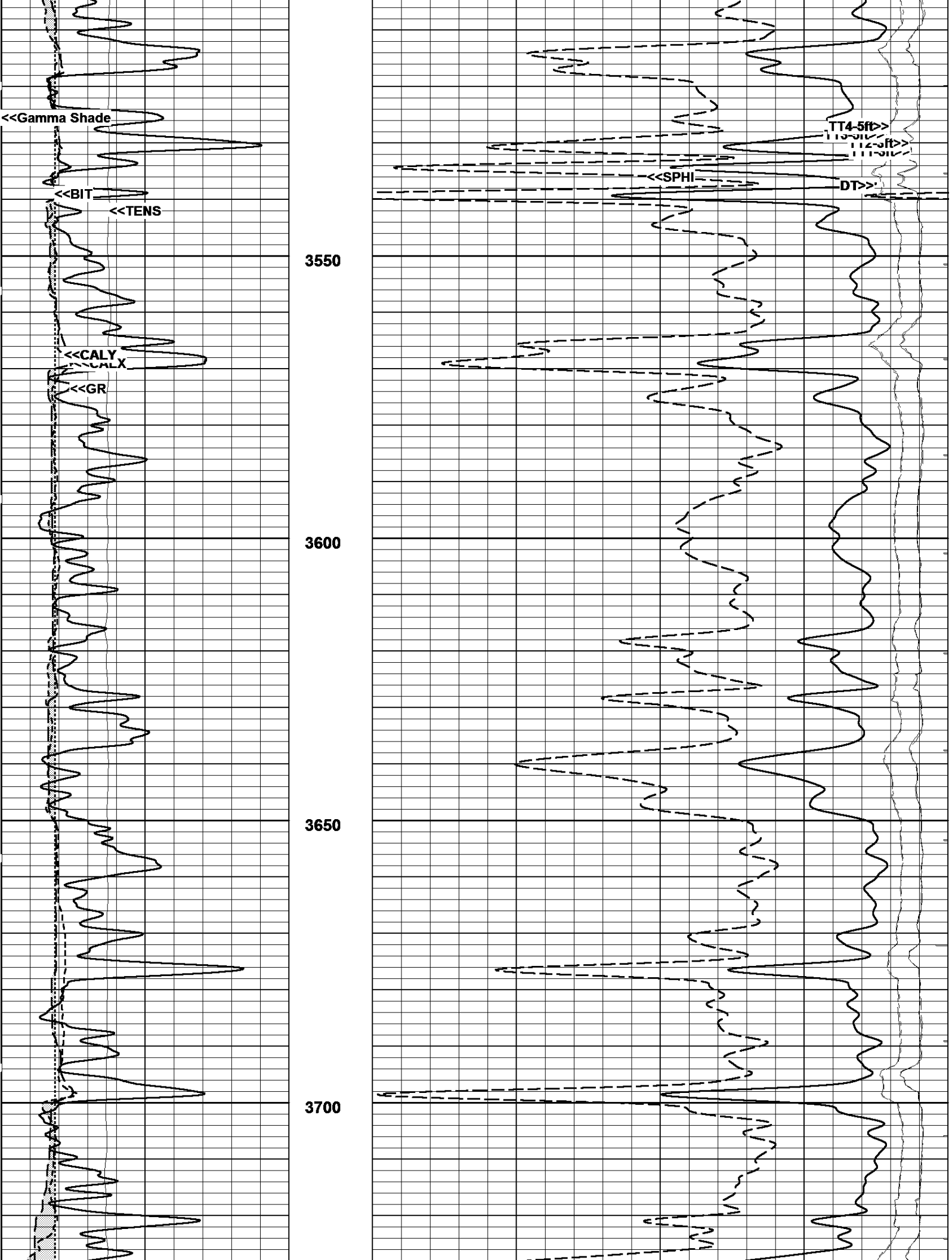


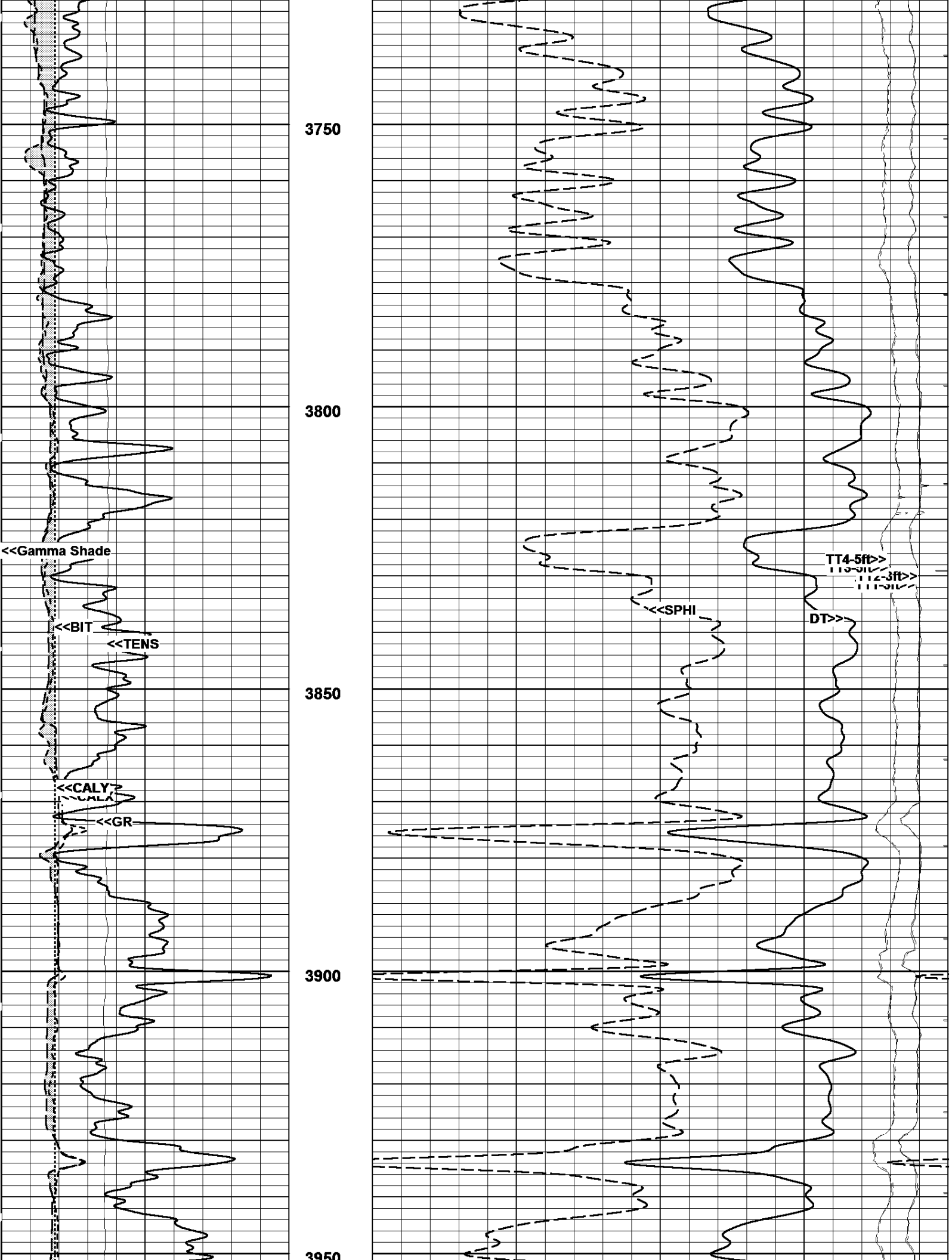


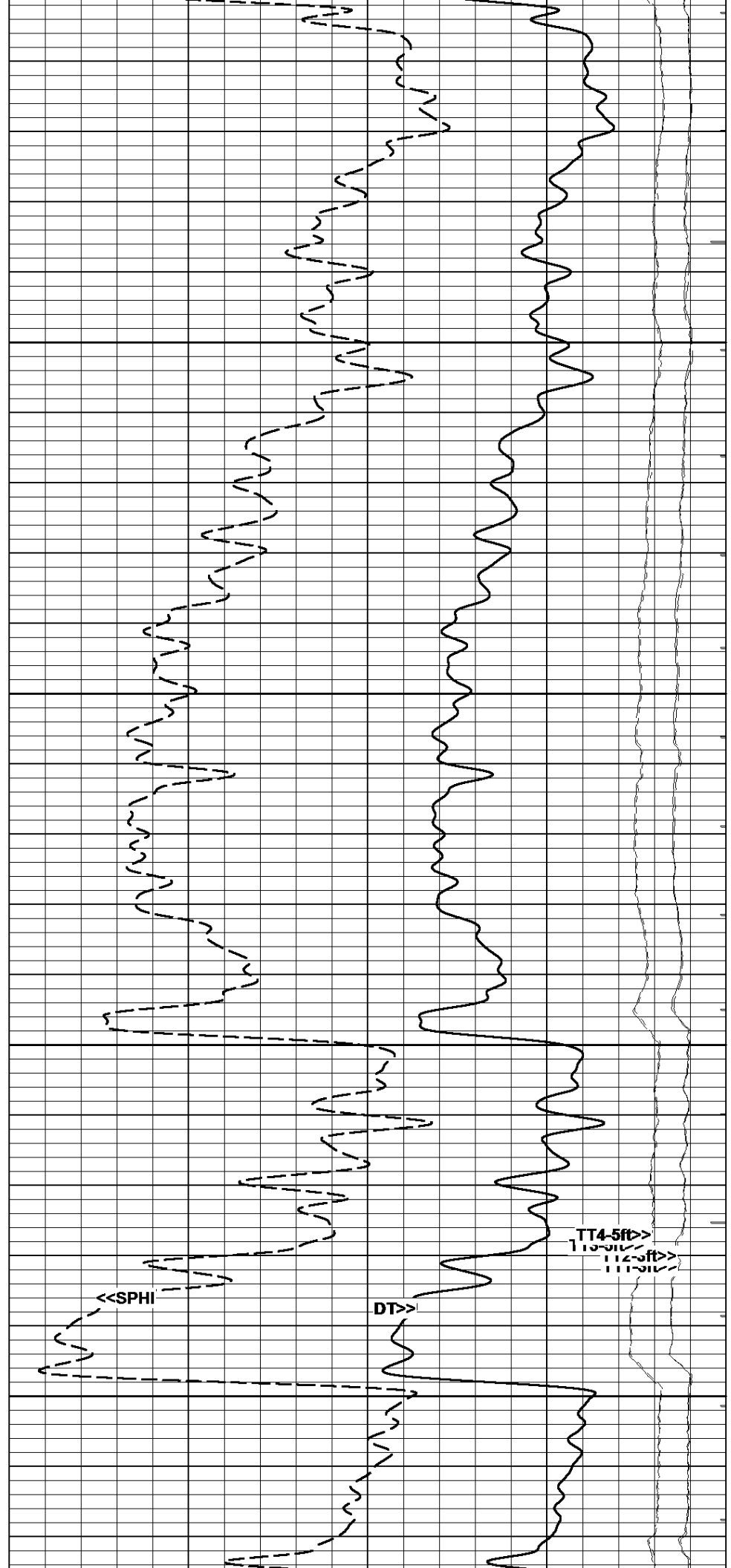
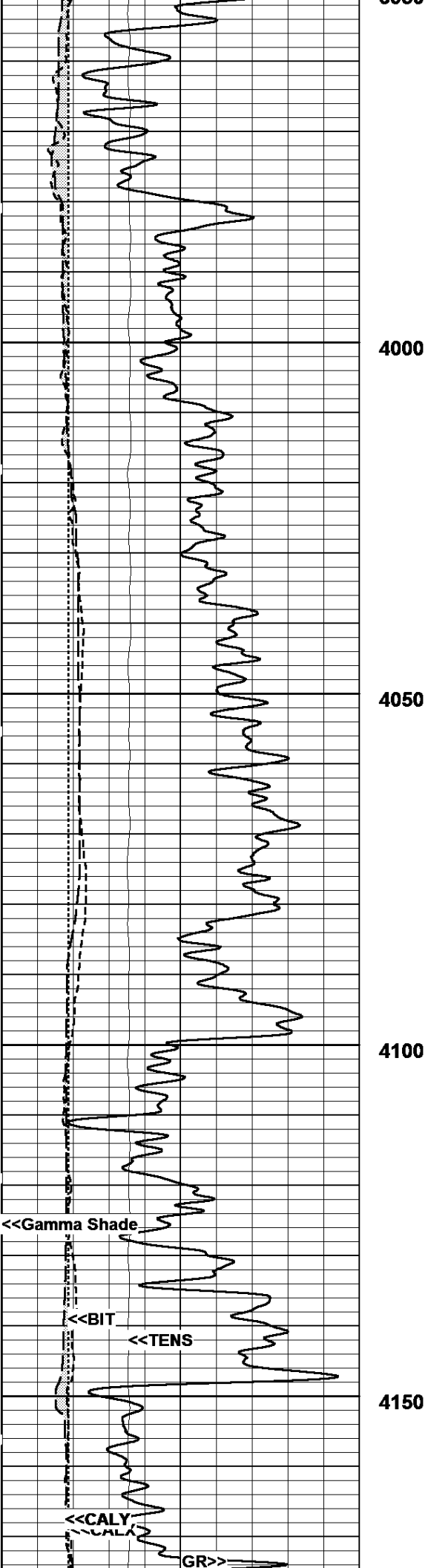


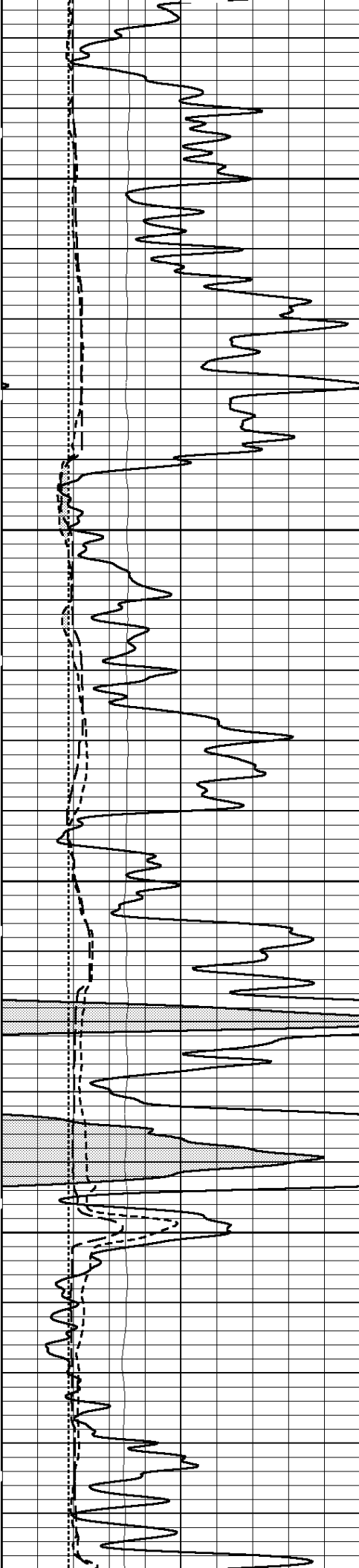










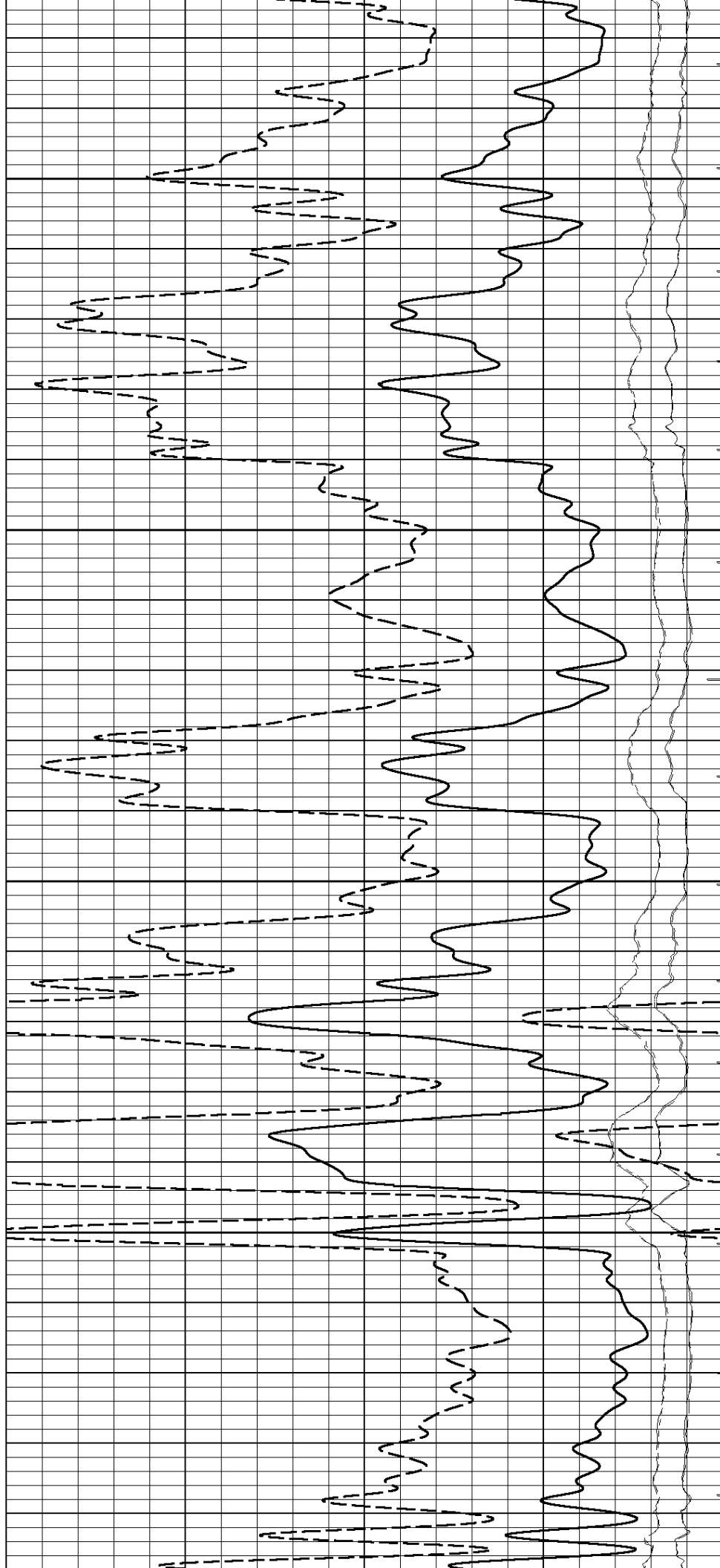


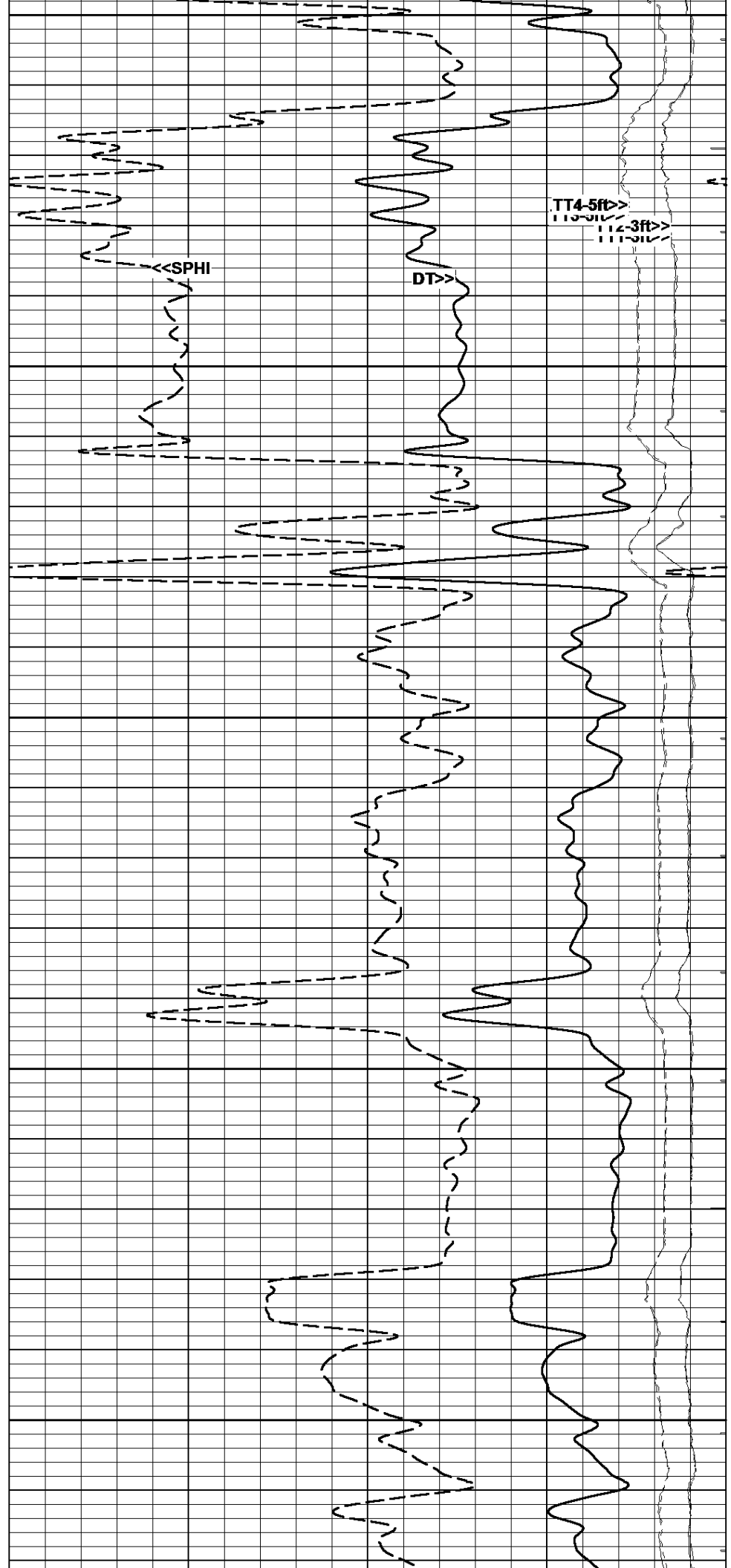
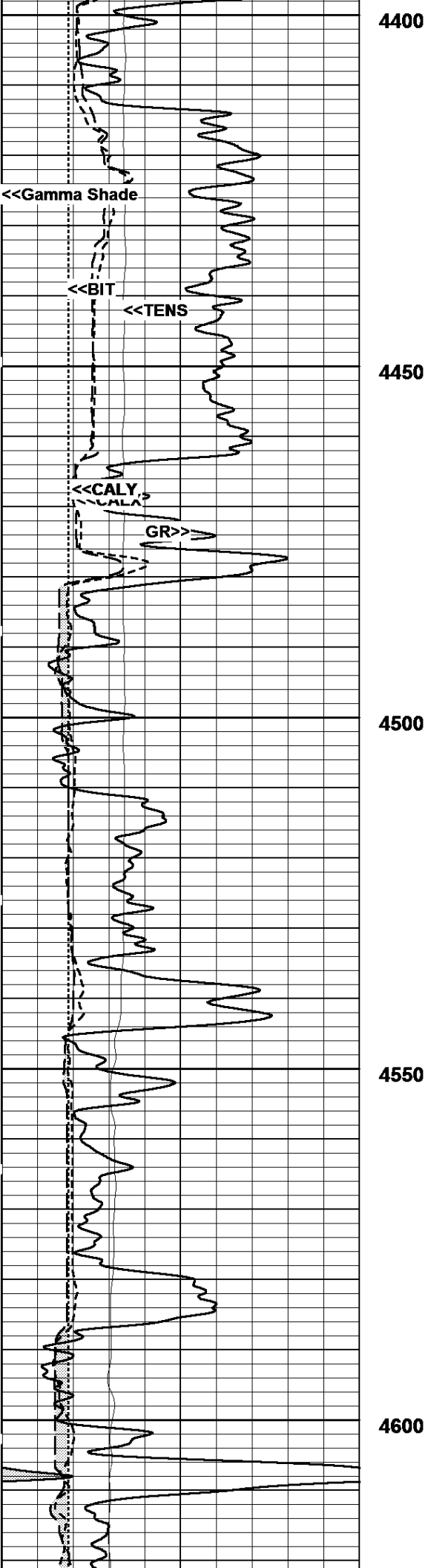
4200

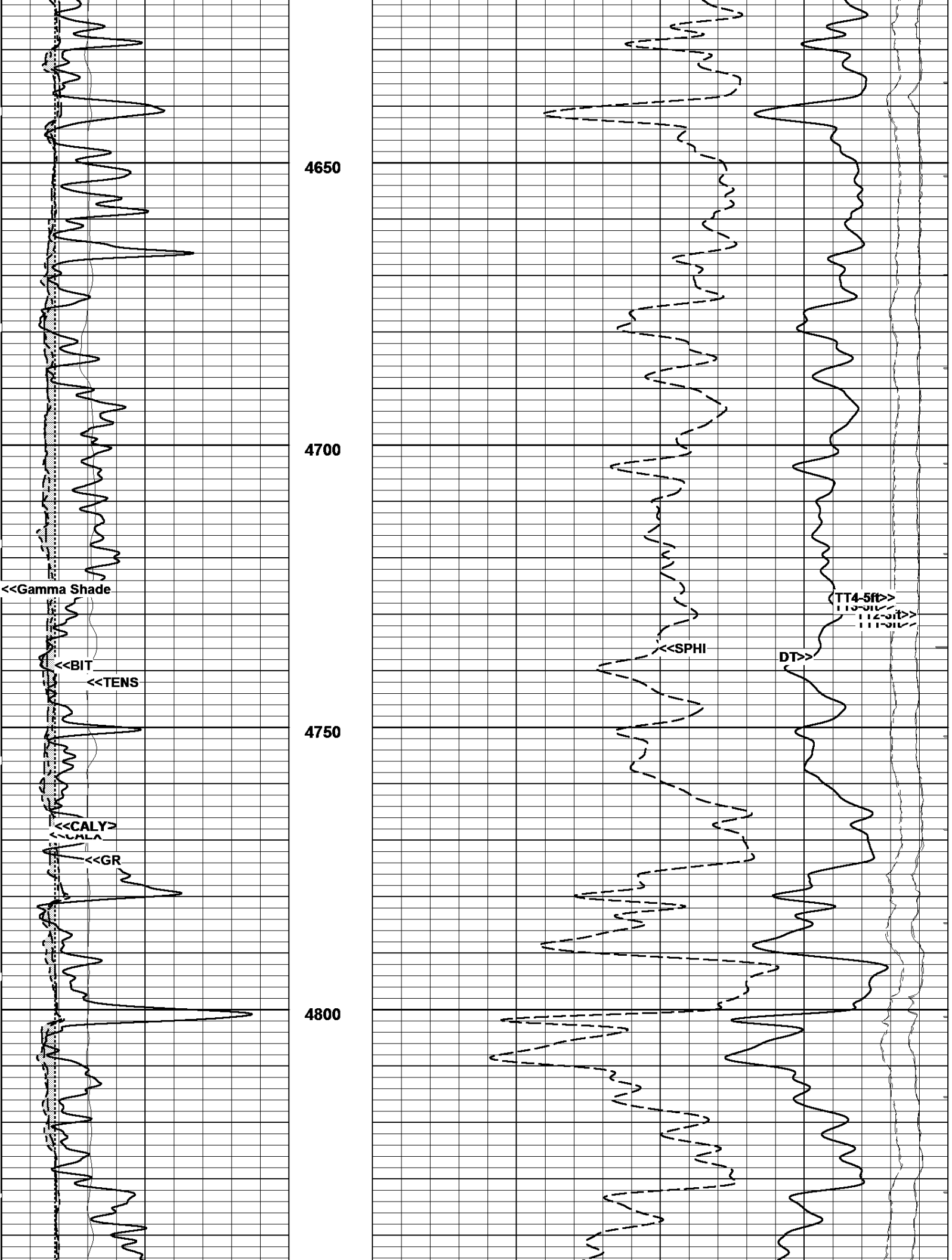
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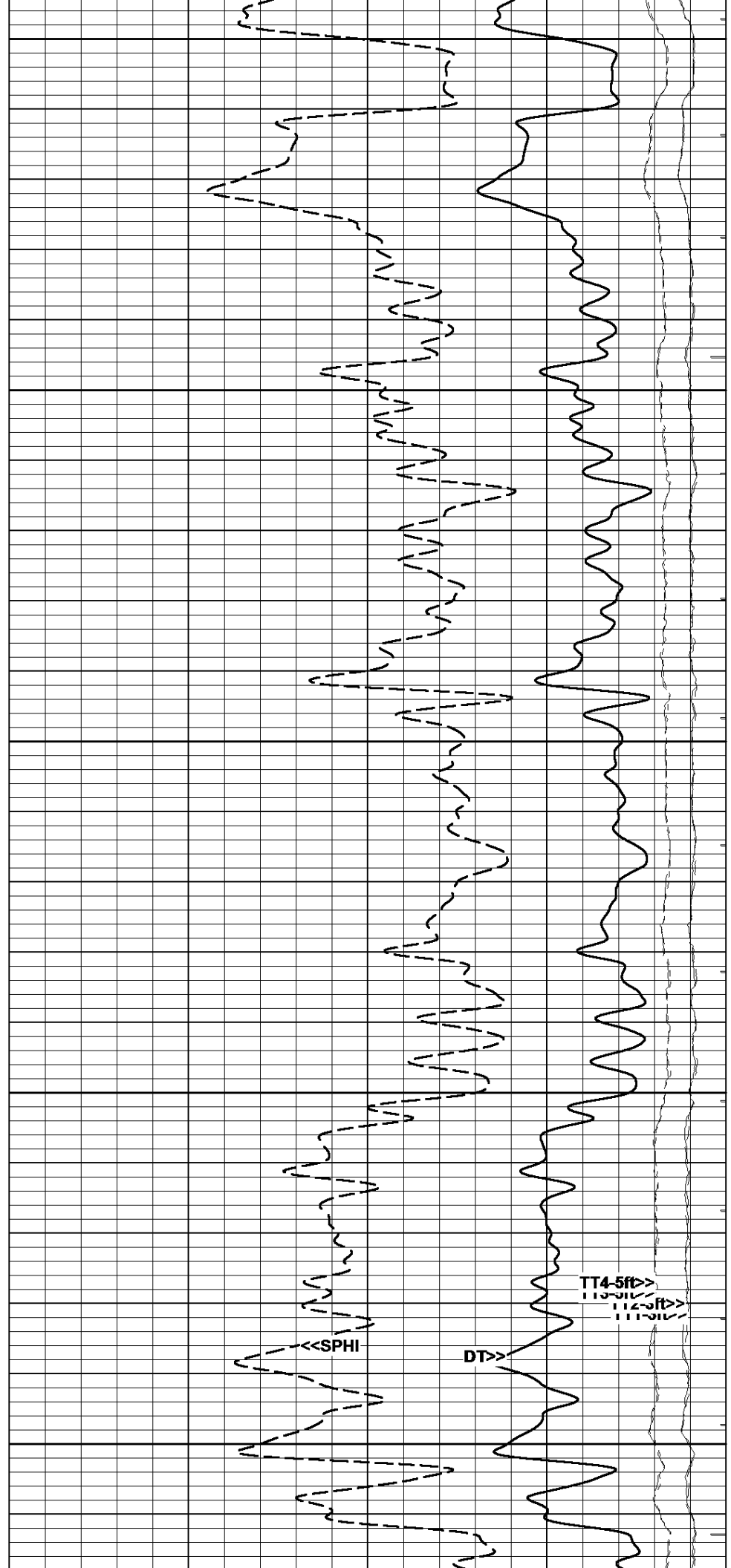
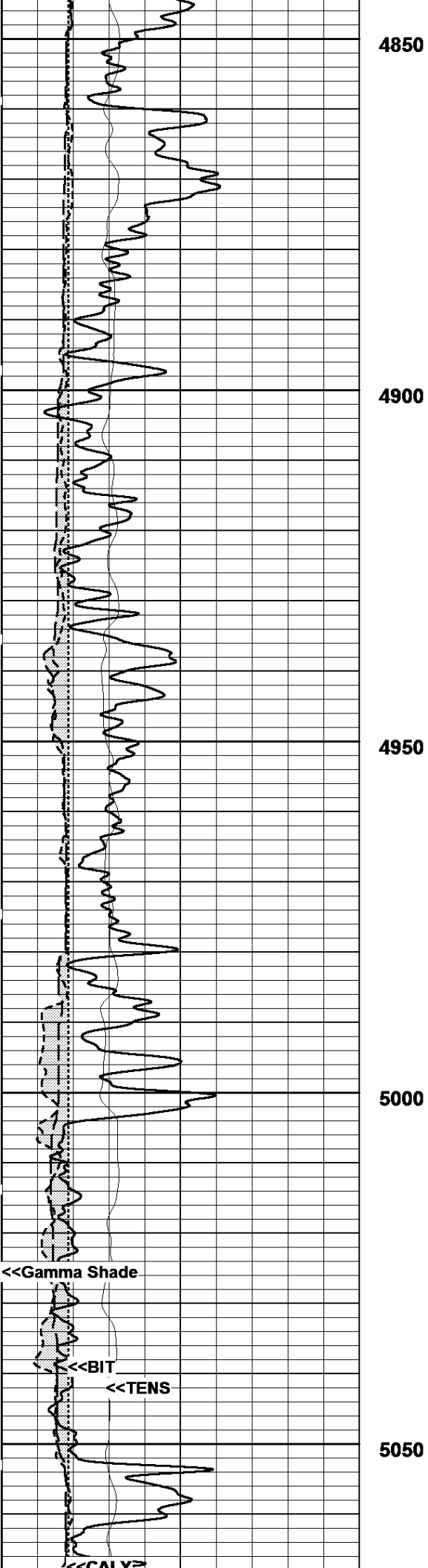
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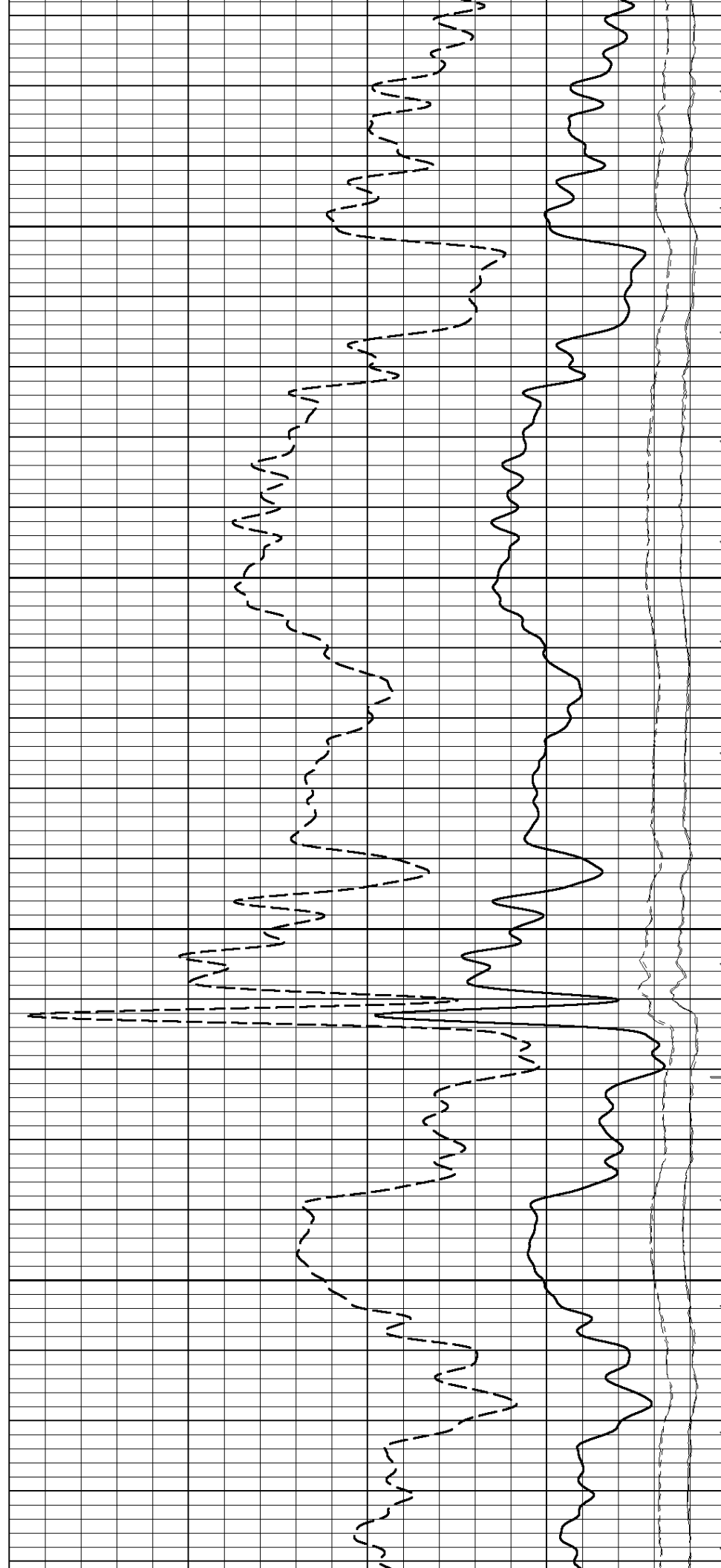
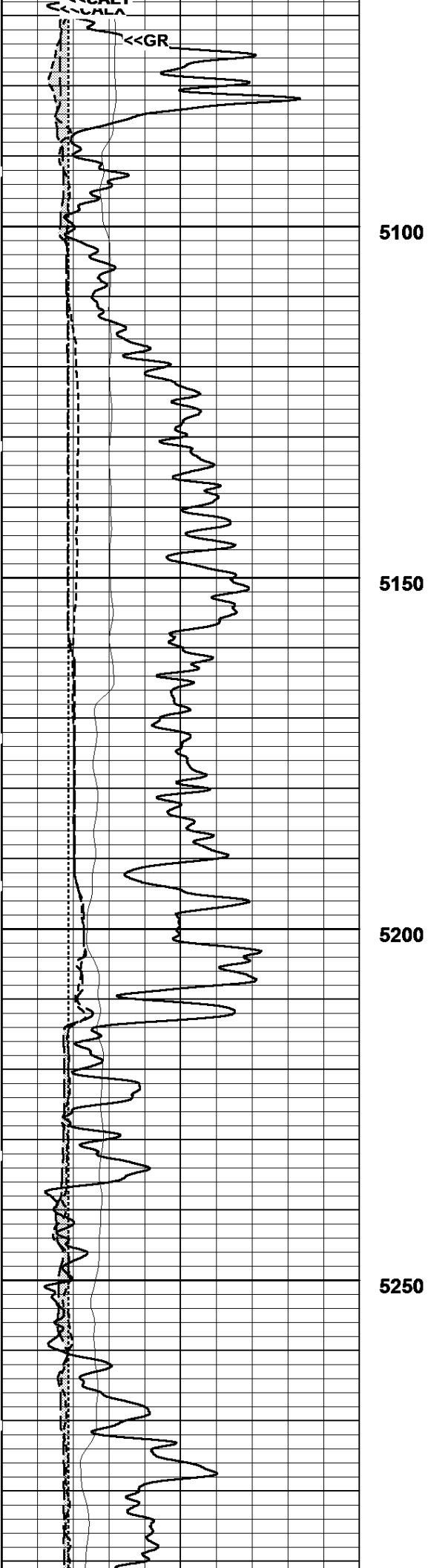
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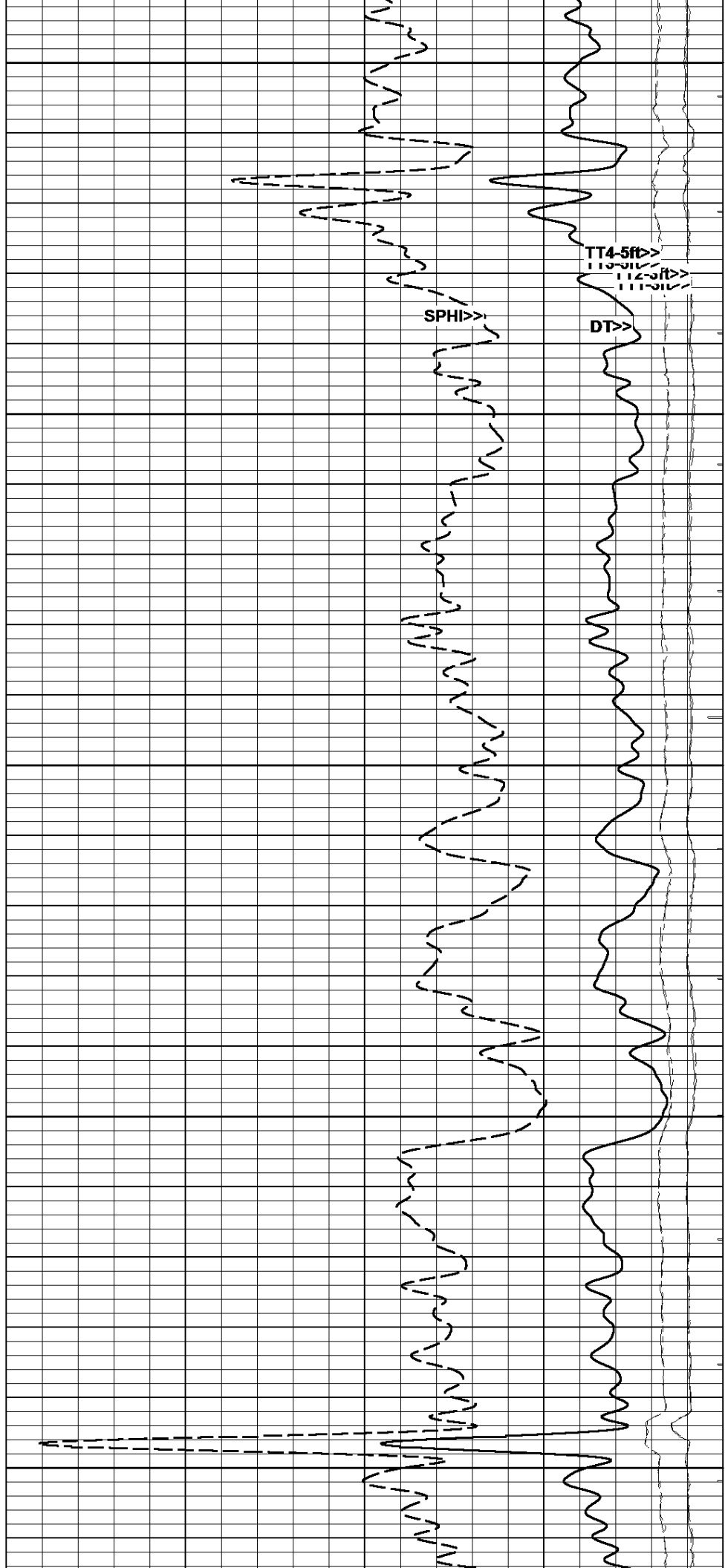
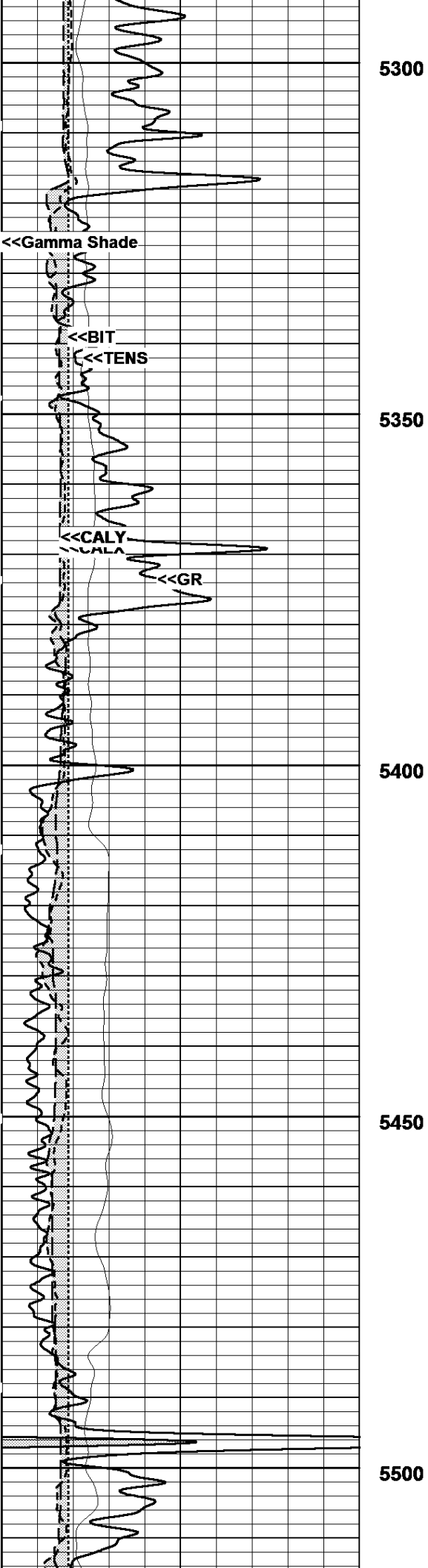


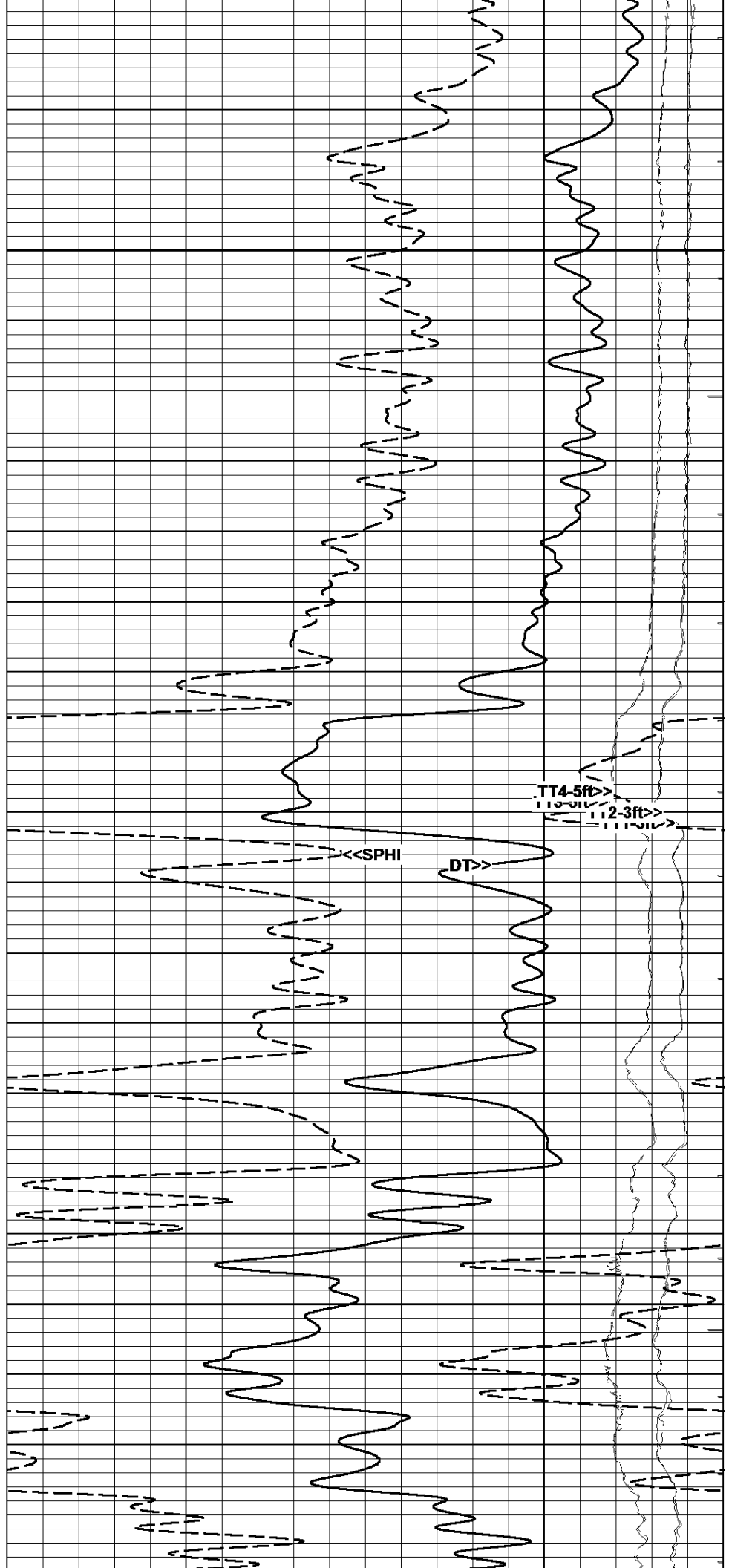
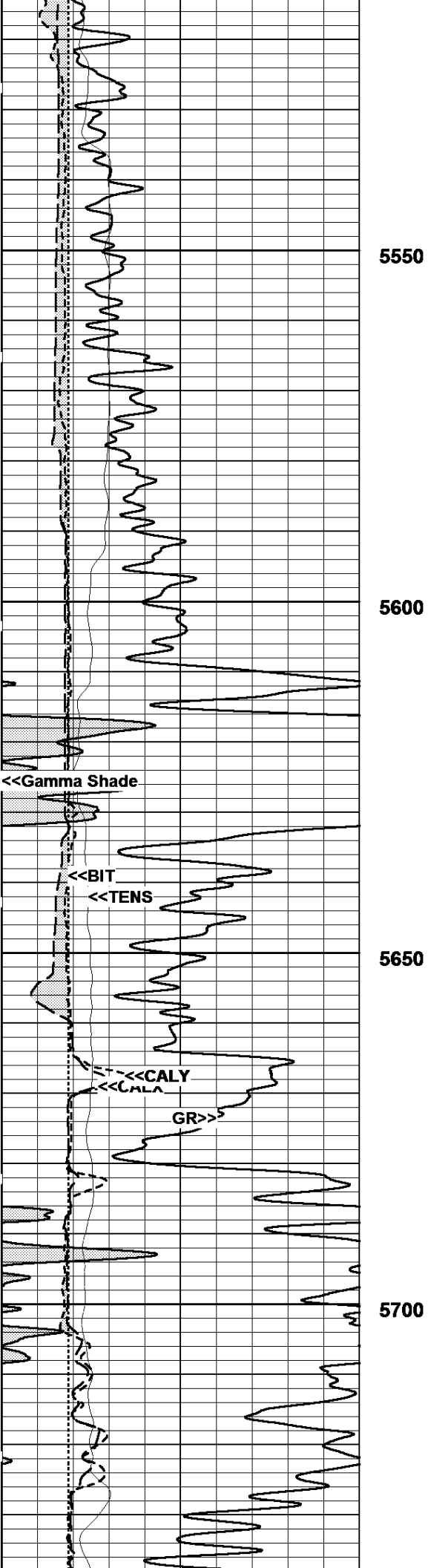


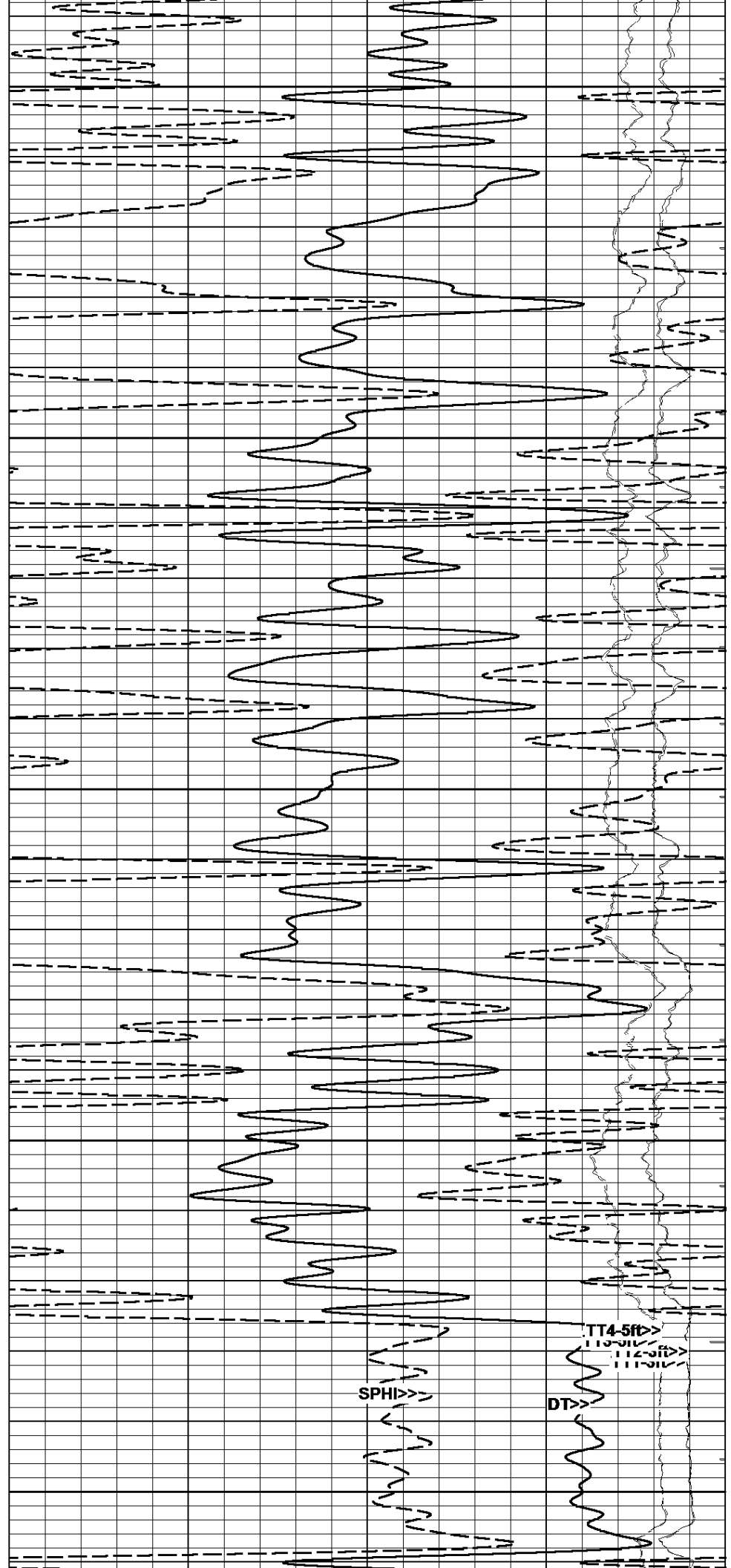
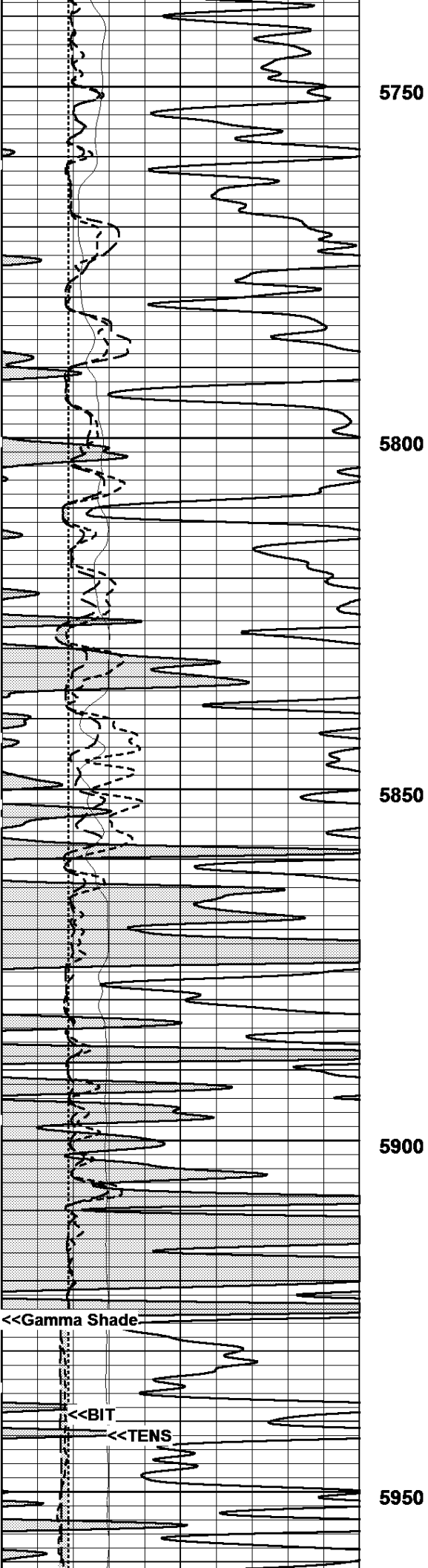


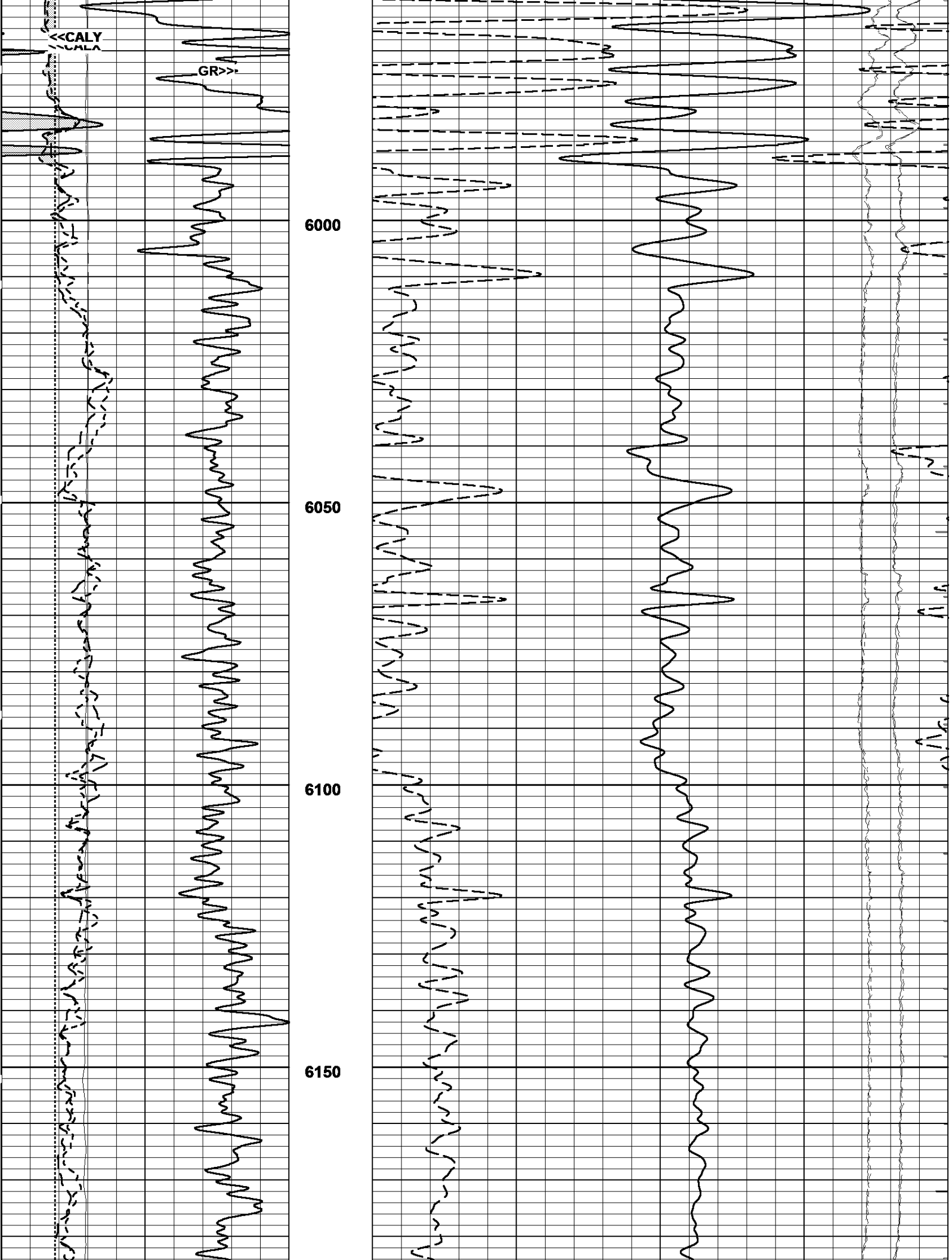


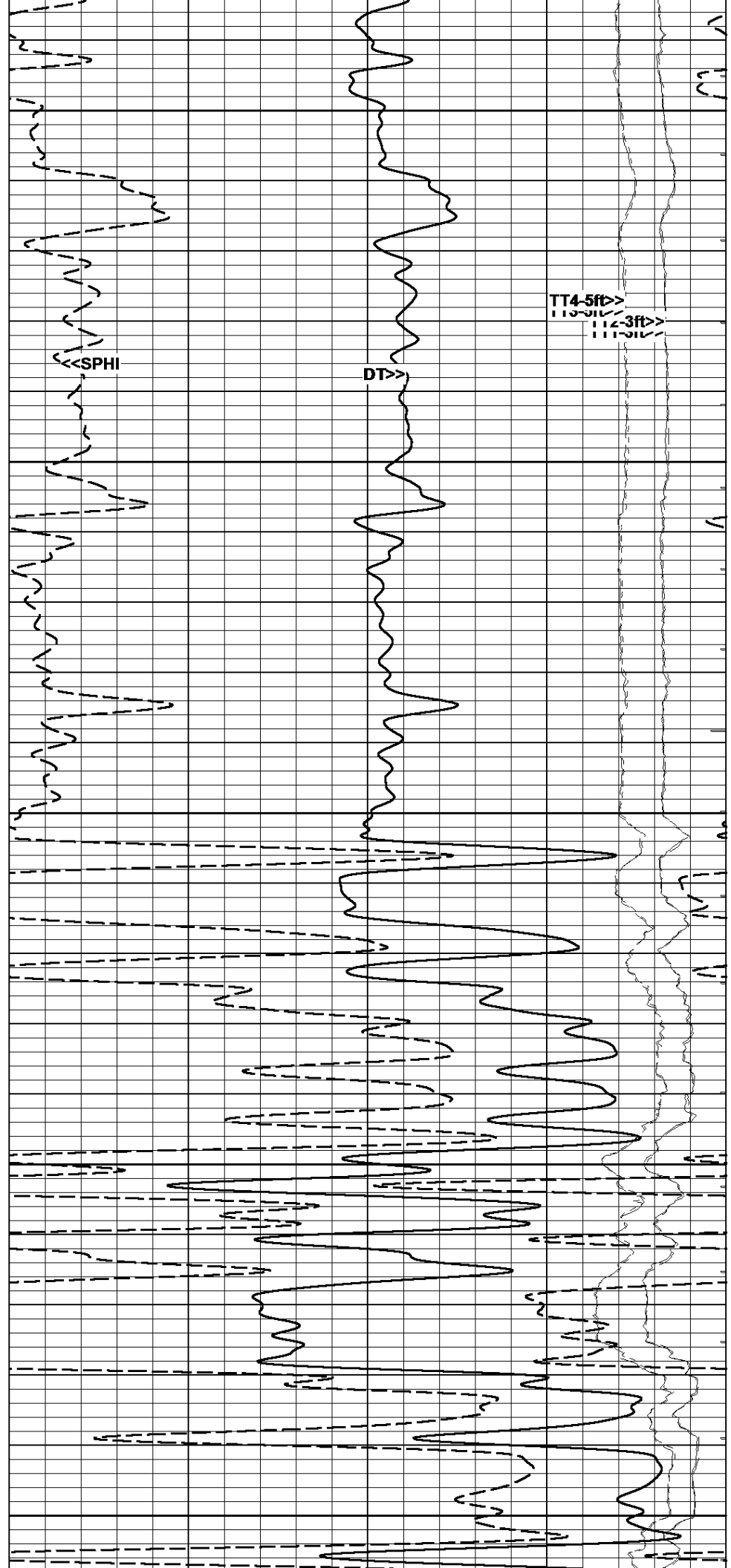
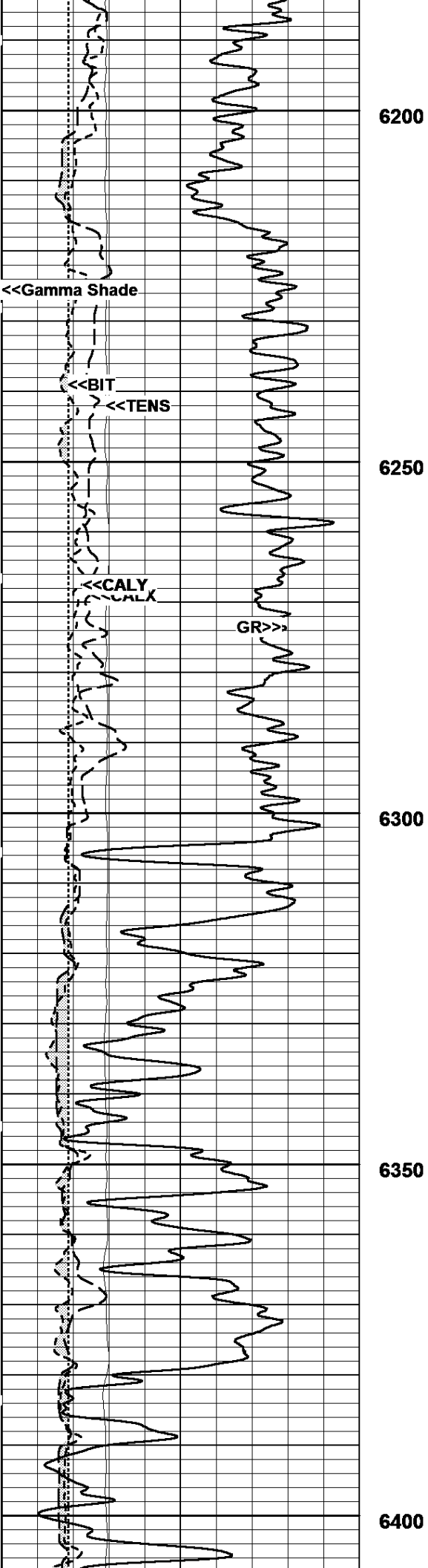


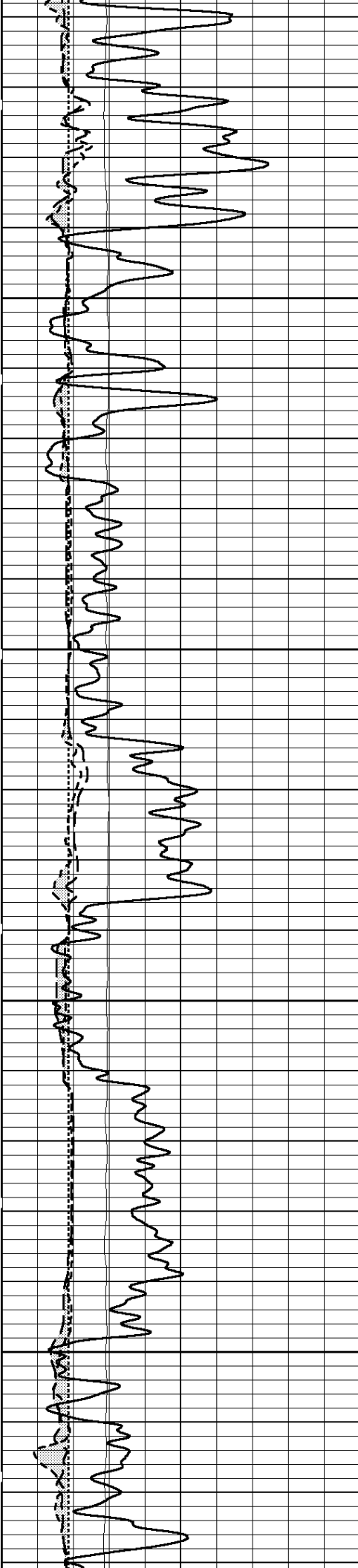










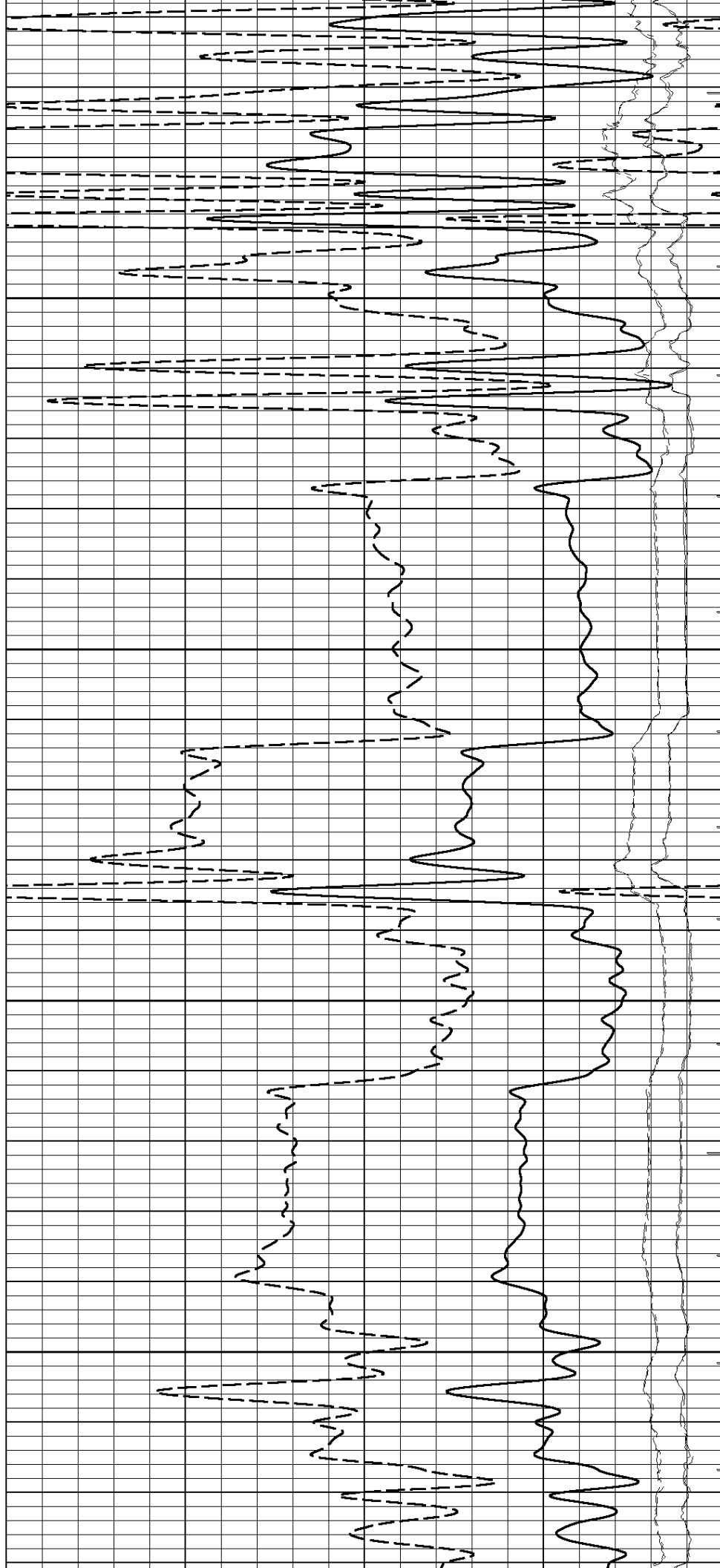


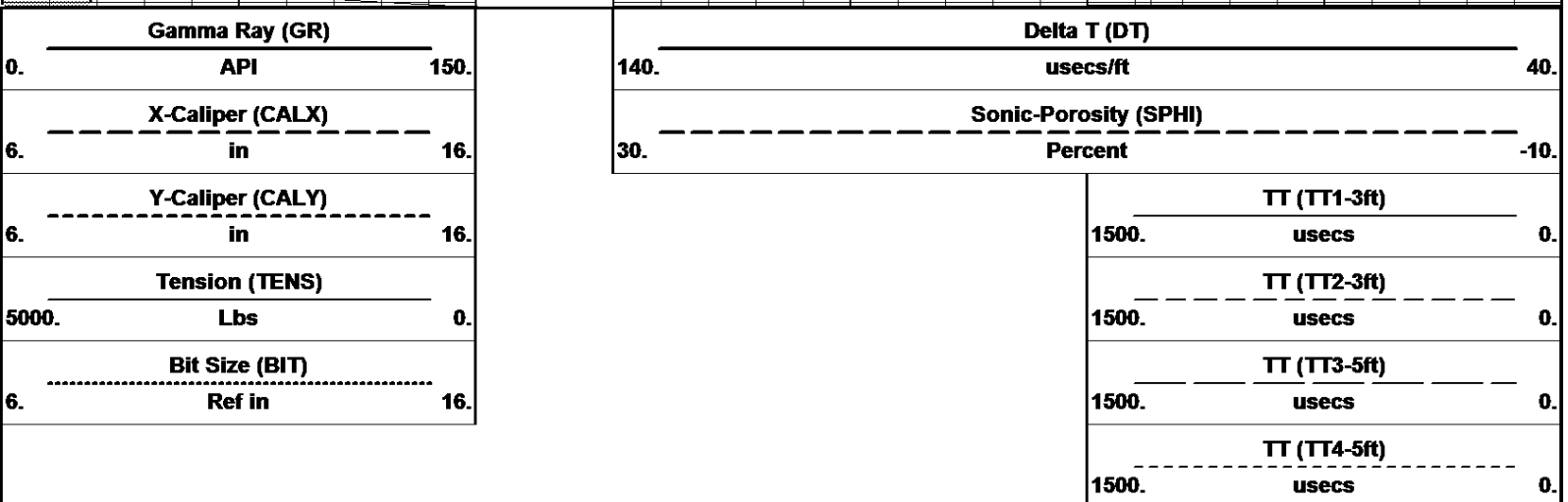
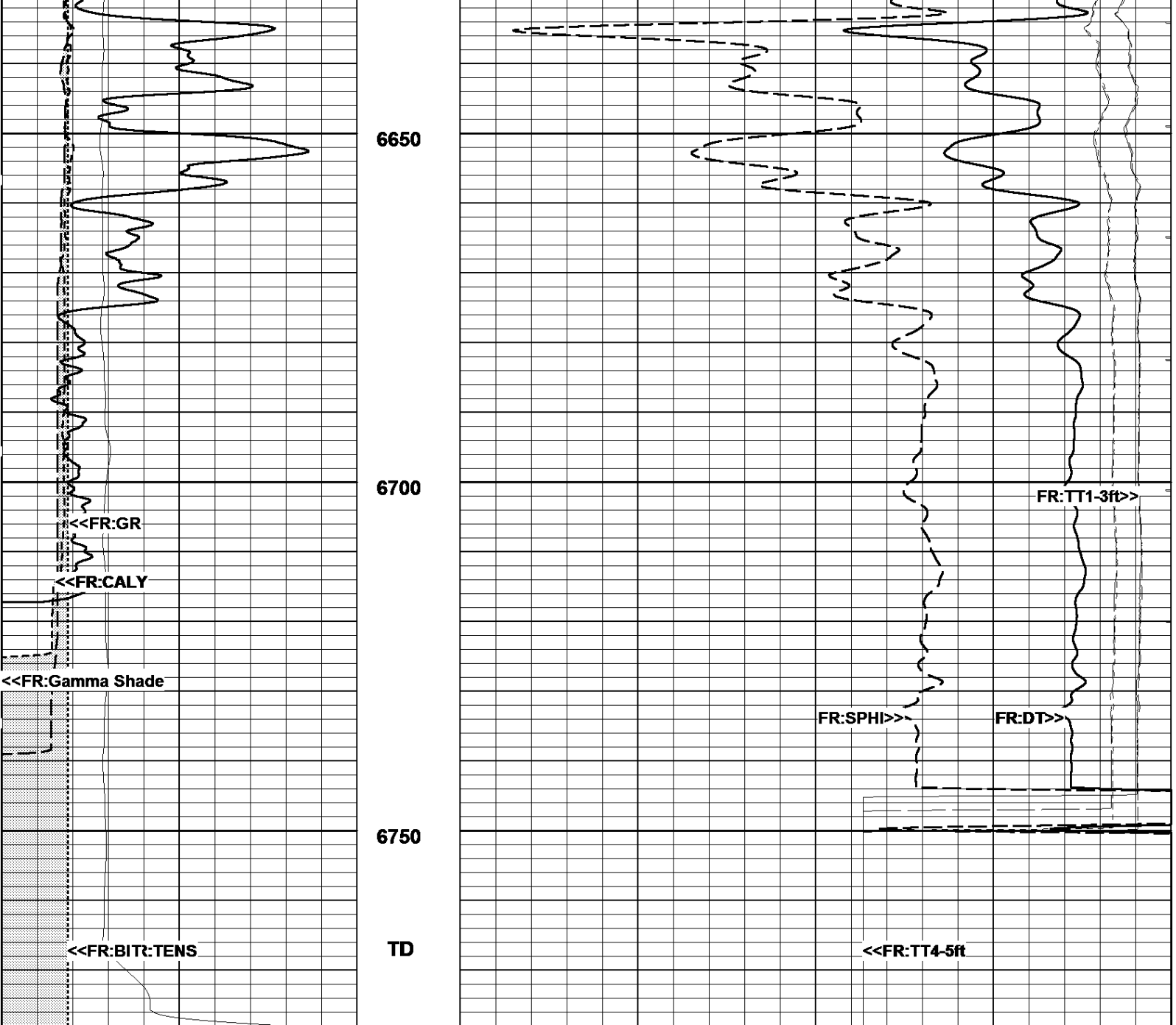
6450

6500

6550

6600





02/14/2014
11:11:32 => End Time

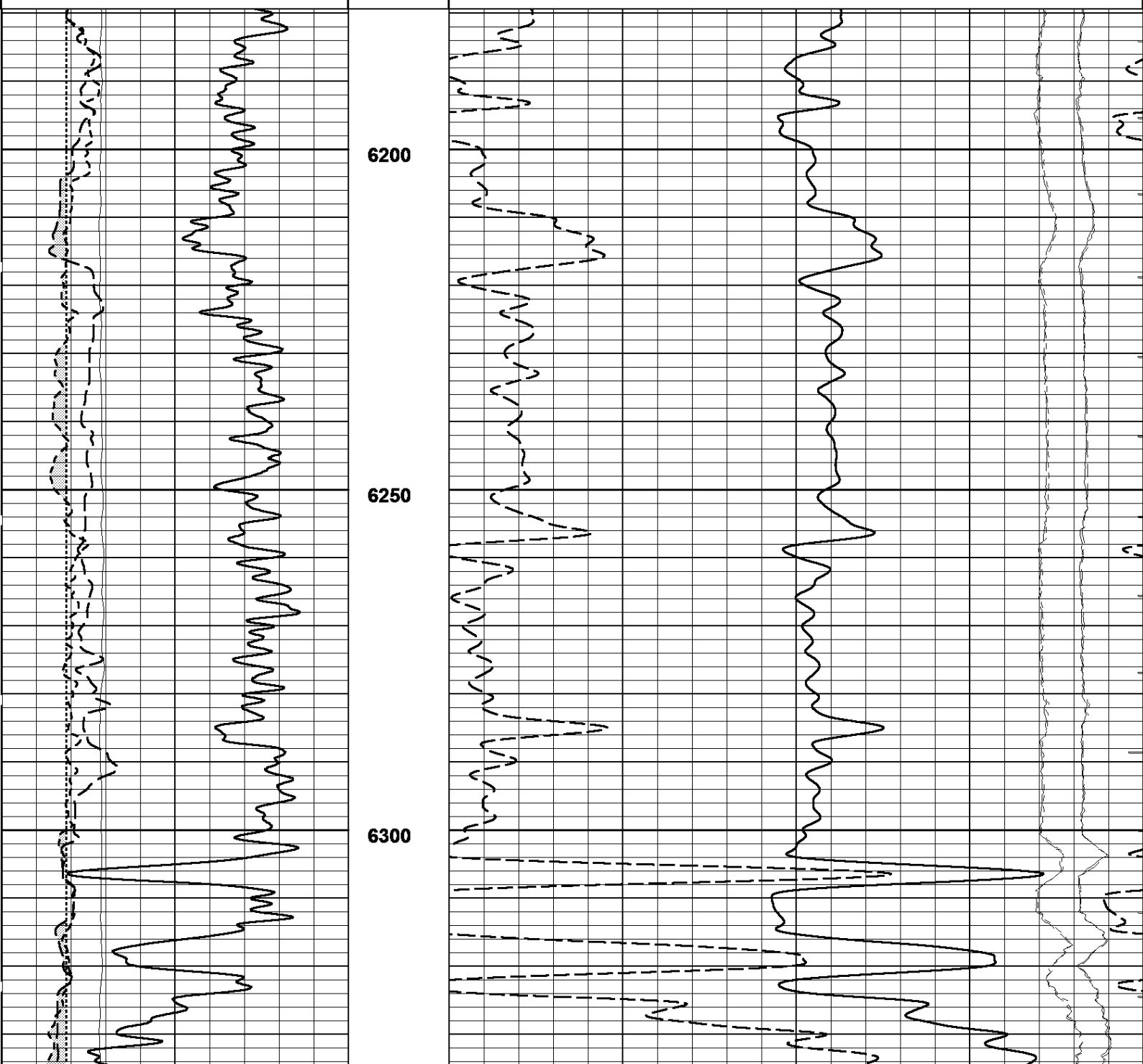
REPEAT PASS (5"/100Ft)

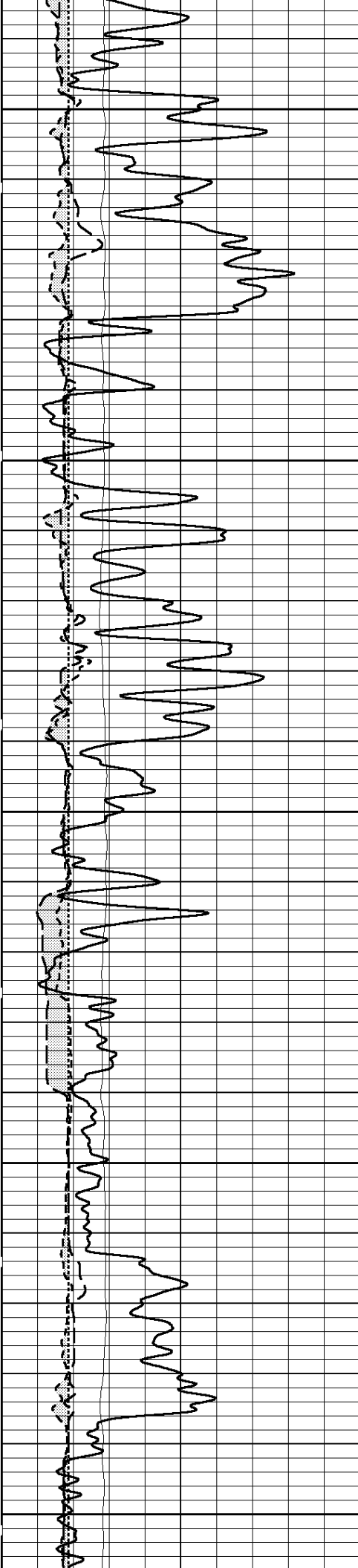
Log UP - (VER 11.17)
End Depth=> 6179.60 Feet

Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
5000.	Lbs	0.
Y-Caliper (CALY)		
6.	in	16.
X-Caliper (CALX)		
6.	in	16.
Gamma Ray (GR)		
0.	API	150.

TT (TT4-5ft)		
1500.	usecs	0.
TT (TT3-5ft)		
1500.	usecs	0.
TT (TT2-3ft)		
1500.	usecs	0.
TT (TT1-3ft)		
1500.	usecs	0.

Sonic-Porosity (SPHI)		
30.	Percent	-10.
Delta T (DT)		
140.	usecs/ft	40.





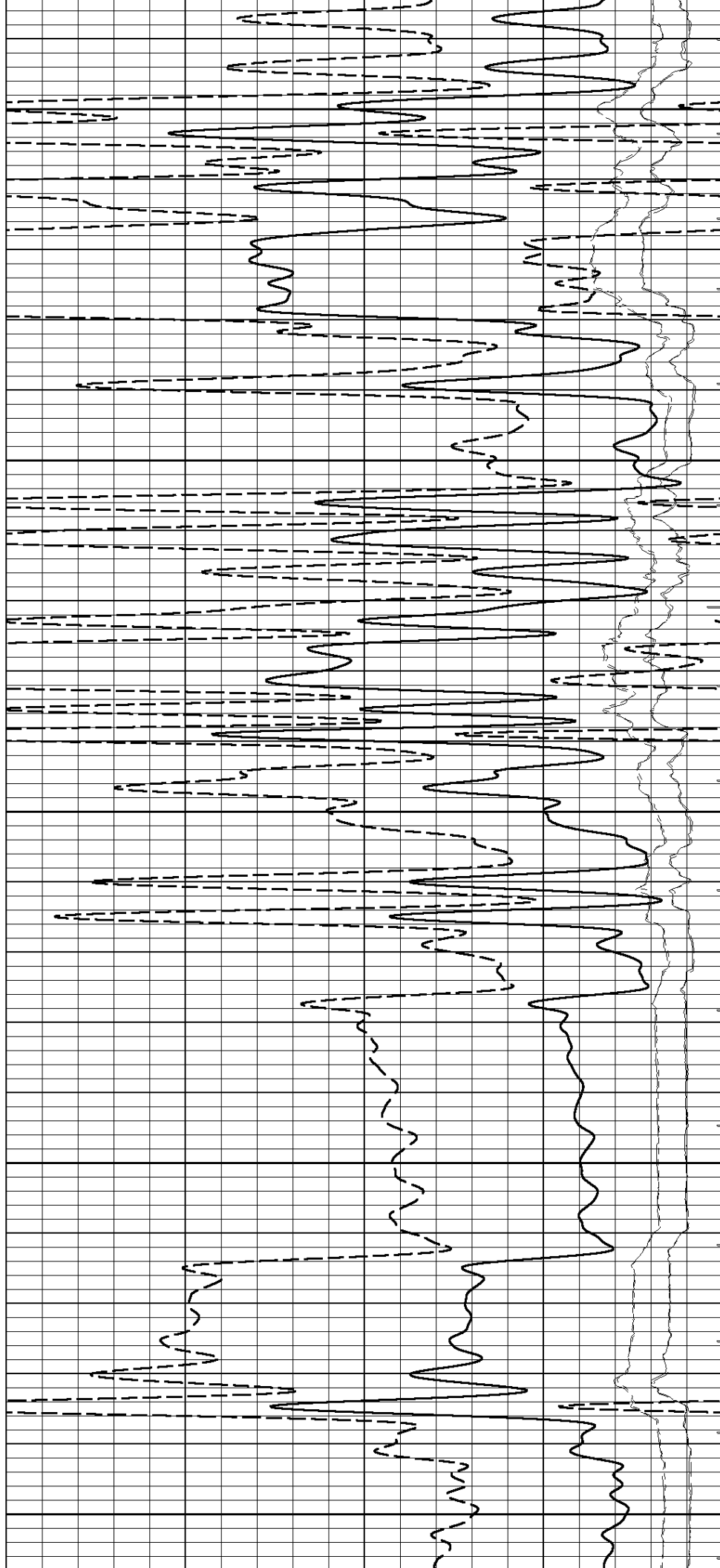
6350

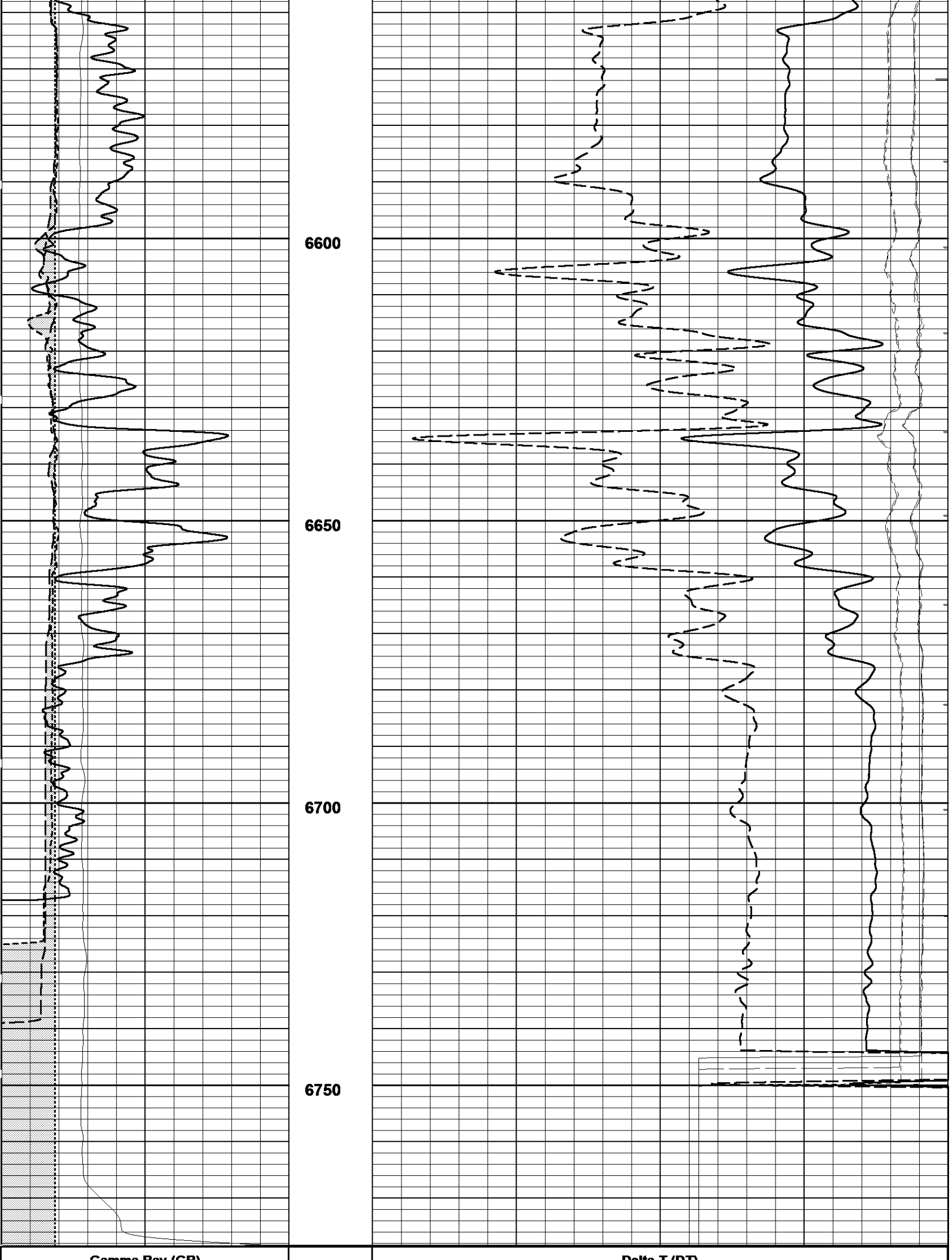
6400

6450

6500

6550





<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: right;">0.</td> <td style="width:33%; text-align: center;">API</td> <td style="width:33%; text-align: right;">150.</td> </tr> <tr> <td style="text-align: right;">6.</td> <td style="text-align: center;">X-Caliper (CALX) ----- in</td> <td style="text-align: right;">16.</td> </tr> <tr> <td style="text-align: right;">6.</td> <td style="text-align: center;">Y-Caliper (CALY) ----- in</td> <td style="text-align: right;">16.</td> </tr> <tr> <td style="text-align: right;">5000.</td> <td style="text-align: center;">Tension (TENS) ----- Lbs</td> <td style="text-align: right;">0.</td> </tr> <tr> <td style="text-align: right;">6.</td> <td style="text-align: center;">Bit Size (BIT) ----- Ref in</td> <td style="text-align: right;">16.</td> </tr> </table>	0.	API	150.	6.	X-Caliper (CALX) ----- in	16.	6.	Y-Caliper (CALY) ----- in	16.	5000.	Tension (TENS) ----- Lbs	0.	6.	Bit Size (BIT) ----- Ref in	16.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: right;">140.</td> <td style="width:33%; text-align: center;">usecs/ft</td> <td style="width:33%; text-align: right;">40.</td> </tr> <tr> <td style="text-align: right;">30.</td> <td style="text-align: center;">Sonic-Porosity (SPHI) ----- Percent</td> <td style="text-align: right;">-10.</td> </tr> </table>	140.	usecs/ft	40.	30.	Sonic-Porosity (SPHI) ----- Percent	-10.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"></td> <td style="width:33%; text-align: center;">TT (TT1-3ft) -----</td> <td style="width:33%;"></td> </tr> <tr> <td style="text-align: right;">1500.</td> <td style="text-align: center;">usecs</td> <td style="text-align: right;">0.</td> </tr> <tr> <td style="text-align: right;">1500.</td> <td style="text-align: center;">TT (TT2-3ft) ----- usecs</td> <td style="text-align: right;">0.</td> </tr> <tr> <td style="text-align: right;">1500.</td> <td style="text-align: center;">TT (TT3-5ft) ----- usecs</td> <td style="text-align: right;">0.</td> </tr> <tr> <td style="text-align: right;">1500.</td> <td style="text-align: center;">TT (TT4-5ft) ----- usecs</td> <td style="text-align: right;">0.</td> </tr> </table>		TT (TT1-3ft) -----		1500.	usecs	0.	1500.	TT (TT2-3ft) ----- usecs	0.	1500.	TT (TT3-5ft) ----- usecs	0.	1500.	TT (TT4-5ft) ----- usecs	0.
0.	API	150.																																				
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1500.	usecs	0.																																				
1500.	TT (TT2-3ft) ----- usecs	0.																																				
1500.	TT (TT3-5ft) ----- usecs	0.																																				
1500.	TT (TT4-5ft) ----- usecs	0.																																				

02/14/2014
10:55:49 => Start Time

REPEAT PASS (5"/100ft)

Log UP - (VER 11.17)
Start Depth=> 6778.40 Feet

GAMMA RAY CALIBBRATIONS									
<table style="width:100%;"> <tr> <td style="width:15%;">SERIAL NUM</td> <td style="border: 1px solid black; padding: 2px;">RG3007</td> </tr> <tr> <td>BLANKET NUM</td> <td style="border: 1px solid black; padding: 2px;">1A</td> </tr> </table>						SERIAL NUM	RG3007	BLANKET NUM	1A
SERIAL NUM	RG3007								
BLANKET NUM	1A								
MASTER CALIBRATIONS									
	BackGrnd	CalVal: 135.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME				
BASE CALS	33.583 - raw	217.987 - raw	0.732 - gain 0.000 - off	M/D/Y> 2/12/2014	H:M:S> 16:16:1				
WELL SITE CALIBRATIONS									
	BackGrnd	CalVal: 100.000 Mknu	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME				
PRE CAL	-0.059 - raw	26.967 - raw	3.700 - gain	M/D/Y> 11/12/2004	H:M:S> 12:40:27				

X CALIPER									
<table style="width:100%;"> <tr> <td style="width:15%;">SERIAL NUM</td> <td style="border: 1px solid black; padding: 2px;">RL4102</td> </tr> <tr> <td></td> <td style="border: 1px solid black; height: 20px;"></td> </tr> </table>						SERIAL NUM	RL4102		
SERIAL NUM	RL4102								
MASTER CALIBRATIONS									
	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME				
BASE CALS	2670.674 - raw	4680.506 - raw	0.002 - gain 0.685 - off	M/D/Y> 2/12/2014	H:M:S> 9:44:45				

Y CALIPER CALIBRATIONS									
<table style="width:100%;"> <tr> <td style="width:15%;">SERIAL NUM</td> <td style="border: 1px solid black; padding: 2px;">RN2002</td> </tr> <tr> <td></td> <td style="border: 1px solid black; height: 20px;"></td> </tr> </table>						SERIAL NUM	RN2002		
SERIAL NUM	RN2002								
MASTER CALIBRATIONS									
	ZeroVal: 6.000 mm	CalVal: 10.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME				
BASE CALS	1237.107 - raw	1865.787 - raw	0.006 - gain -1.871 - off	M/D/Y> 2/12/2014	H:M:S> 16:4:47				

Company	MIDWESTERN EXPLORATION COMPANY
----------------	---------------------------------------

Well	GARMAN #2-18
Field	GOOCH
County	STEVENS
State	KANSAS



BHC SONIC
GAMMA RAY
X-Y CALIPER



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