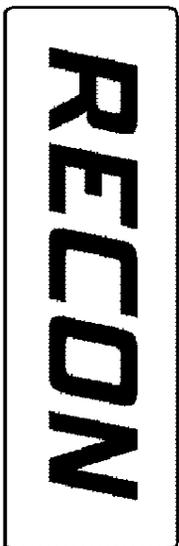


Company **CMX, INC.**
 Well **BUSHTON #2-36**
 Field **HEIKEN**
 County **ELLSWORTH**
 State **KANSAS**



**BHC SONIC
 GAMMA RAY
 X-Y CALIPER**

SEC	TWP	RGE	OTHER SERVICES:
36	17S	10W	DDT CNL
Location: 1360' FSL & 1660' FEL			ELEVATIONS K.B. 1768 G.L. 1760 D.F. 1766
SURF. SAME		SW/SE/NW/SE AP#: 015-053-21337-00-00	
Permanent Datum	Ground Level	Elev	1760
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		

Date	27-AUG-2015	
Run No.	ONE	
TD Driller	3255 ft	
TD RECON	3252 ft	
Bot Logged Interval	3251 ft	
Top Logged Interval	370 ft	
Casing Depth Driller	8 5/8 in.	@ 389
Casing Depth RECON	8 5/8 in.	@ 389
Bit Size	7 7/8 in.	
Drilling Fluid Type	WBM	
Density	9.4	40
Fluid Loss	PH	8.8
Source Of Sample	Flowline	
RM @ Measured Temp	5.32 Ohmm	@ 75
RMF @ Measured Temp	3.99 Ohmm	@ 75
RMC @ Measured Temp	6.65 Ohmm	@ 75
RM @ MRT	3.71 Ohmm	@ 104.7
Max Recorded Temp	104.7 DegF	
Time Circulation Stopped	26-AUG-2015	18:30
Time Drilling Stopped	27-AUG-2015	11:30
Time Logger On Bottom	27-AUG-2015	14:50
Unit Num	S406	OKLAHOMA CITY, OK
Recorded By	K.HELDERRMON	
Witnessed By	K.LebLanc	

All interpretations are based on inferences from electrical or other readings, and therefore, RECON cannot and will not guarantee the accuracy of any interpretations of log data. RECON shall not be liable for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from

interpretations made by any of our officers, agents or employees, except in the case of provable Gross Negligence or willfull damage. Interpretations are also subject to the terms and conditions of our Price Schedule and General Service Agreement.

RIG INFORMATION

Drill Contr/Rig#	DUKE DRILLING #2
------------------	------------------

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
 CNL AND LDT LOGGED IN A LIMESTONE MATRIX
 TOP MARK - 324, BOTTOM MARK - 3126.2
 CNL/LDT LOGGED MATRIX: 2.71 g/cc.

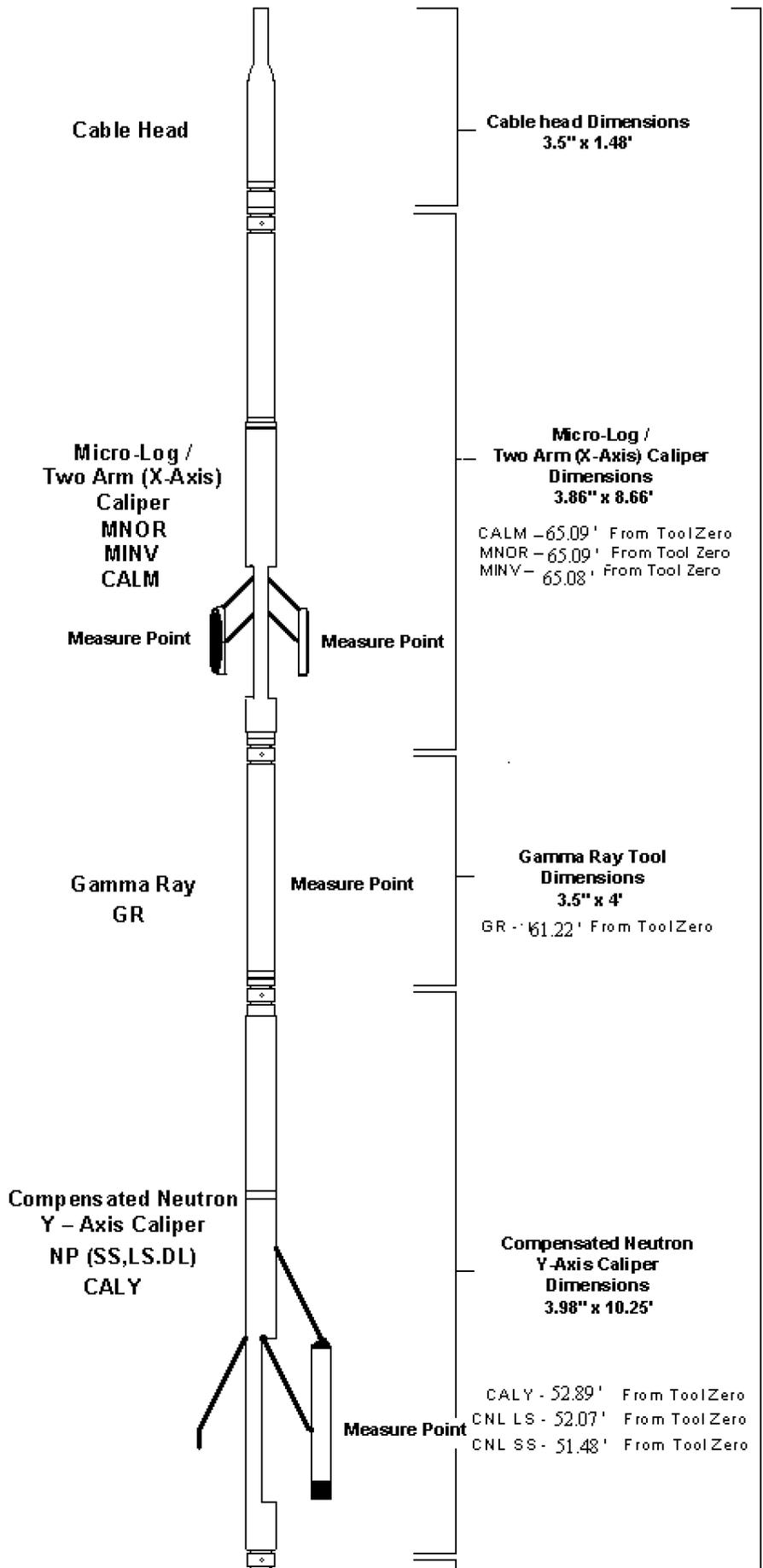
CHLORIDES: 6500
 LCM: NONE

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

AHV CALCULATED ON 5.5" PROD. CASING

CREW: J.THOMAS

**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'**

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

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

**Tool String
Length Total
73.64'**

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

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

**Borehole
Compensated
Sonic**

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

SP(SS,LS,DL)
DT
TTI
VDL
TT
Measure Point
Tool First Reading
Point

T-1
Transmitter 1

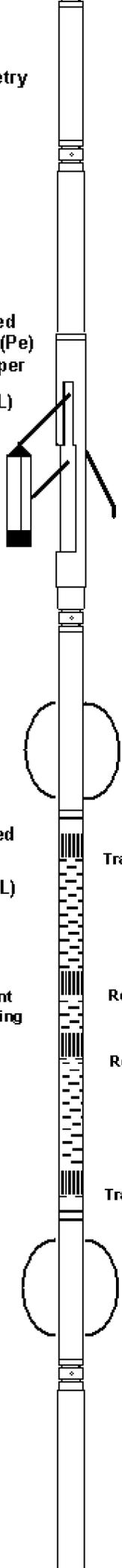
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

R-1
Receiver 1

R-2
Receiver 2

T2R1 - 28.54' From ToolZero
T2R2 - 28.37' From ToolZero

T-2
Transmitter 2



Dual Induction

SP
ILD
ILM
LL3



Dual Induction Tool Dimensions
3.62" x 21'

SP - 10.96' From ToolZero
ILD - 10.96' From ToolZero

S.P. / CILD Measure Point

ILM - 7.22' From ToolZero

CILM Measure Point

LL3 - 1.67' From ToolZero

Tool First Reading Point

Laterolog 3 Measure Point

Tool Zero Point (Tool Bottom)

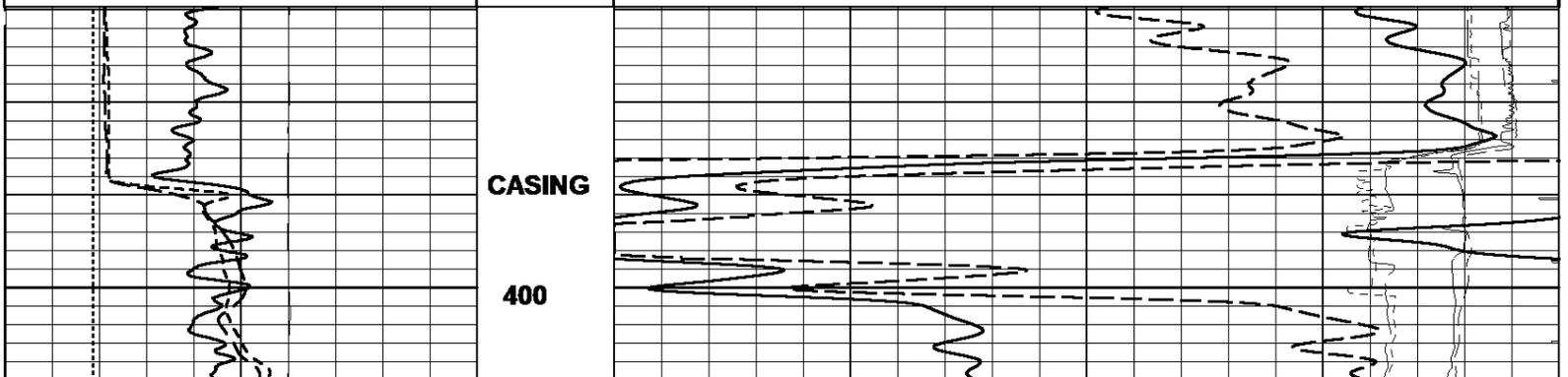
All Measurements are taken from Tool Zero

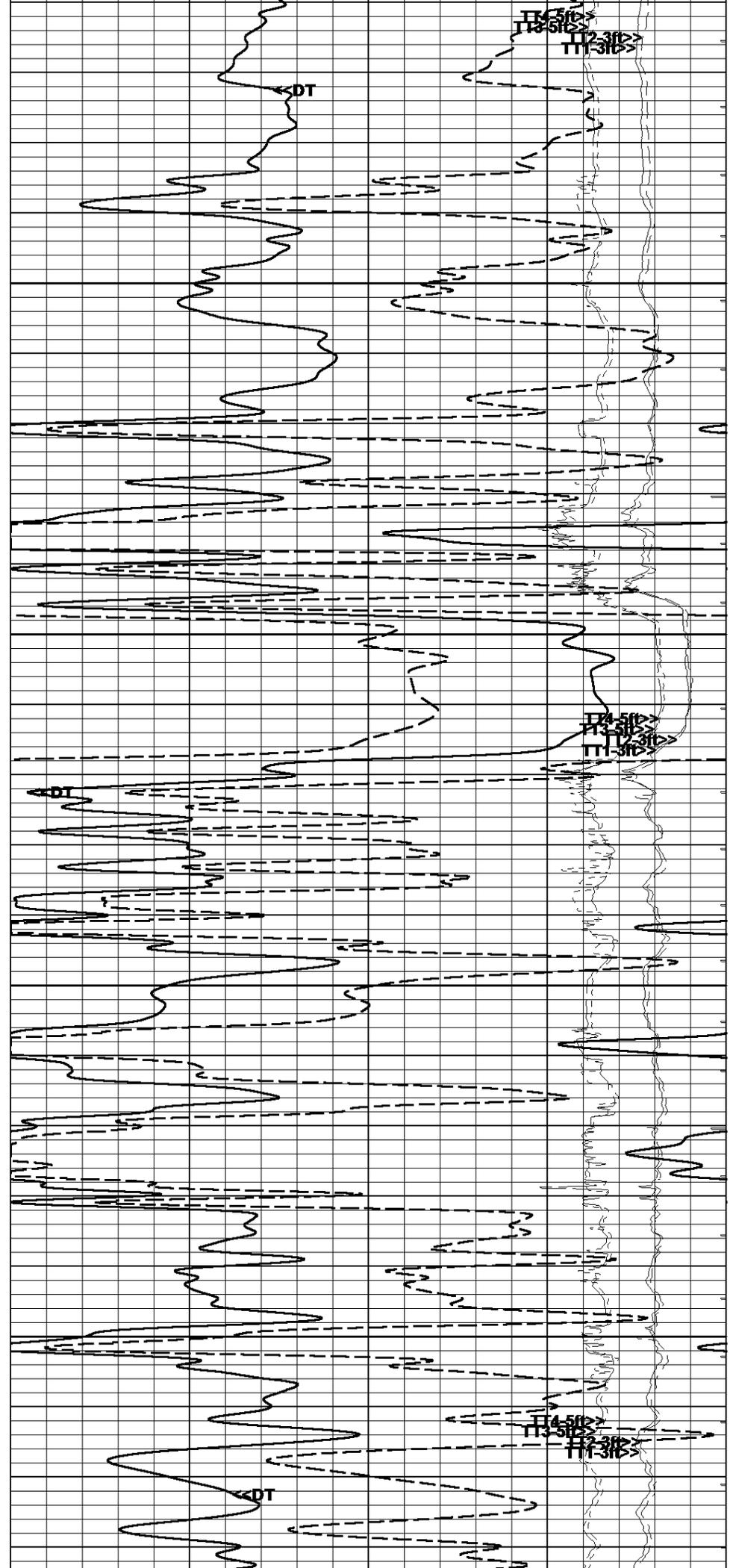
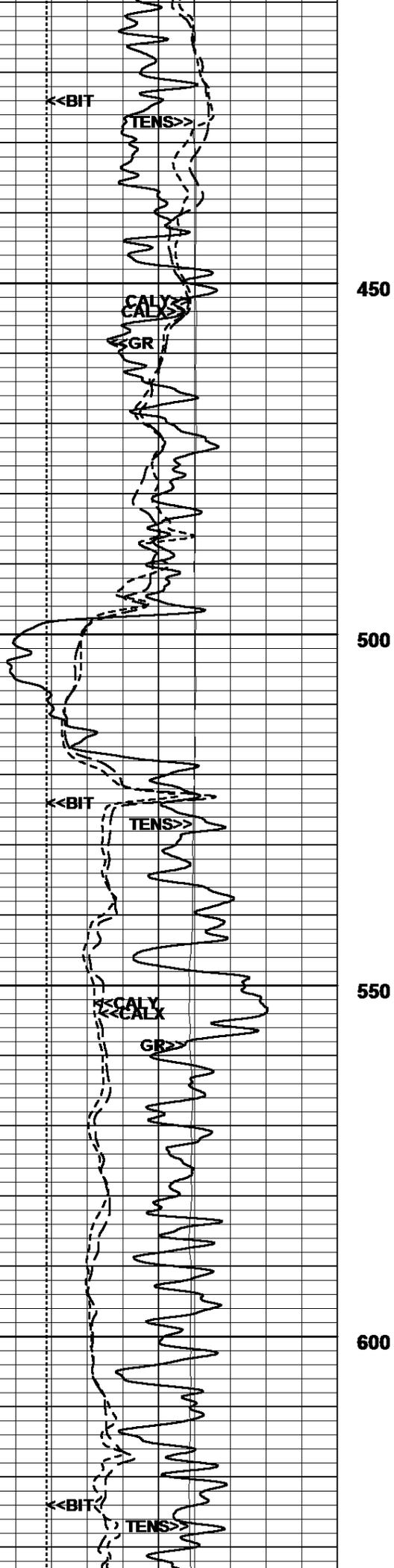
08/27/2015
16:46:11 => End Time

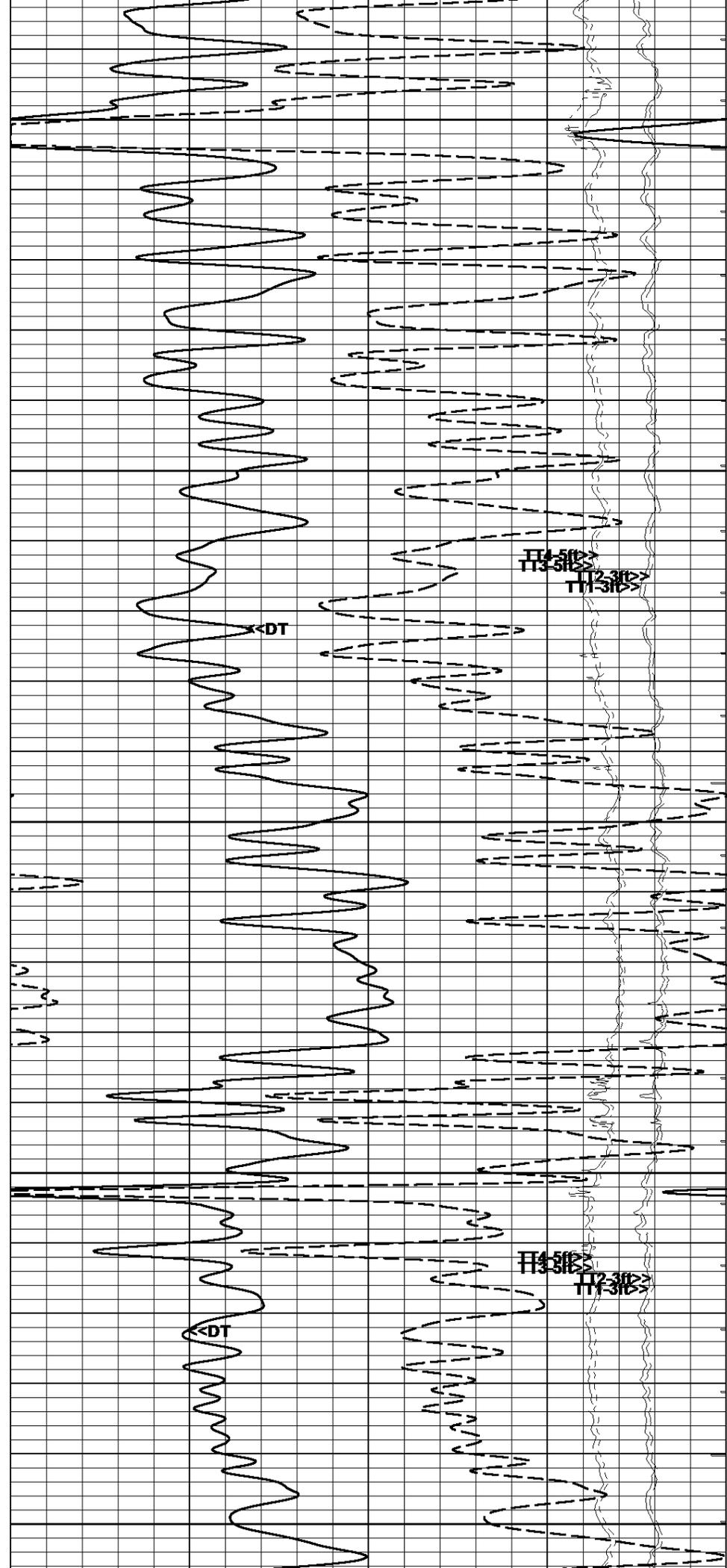
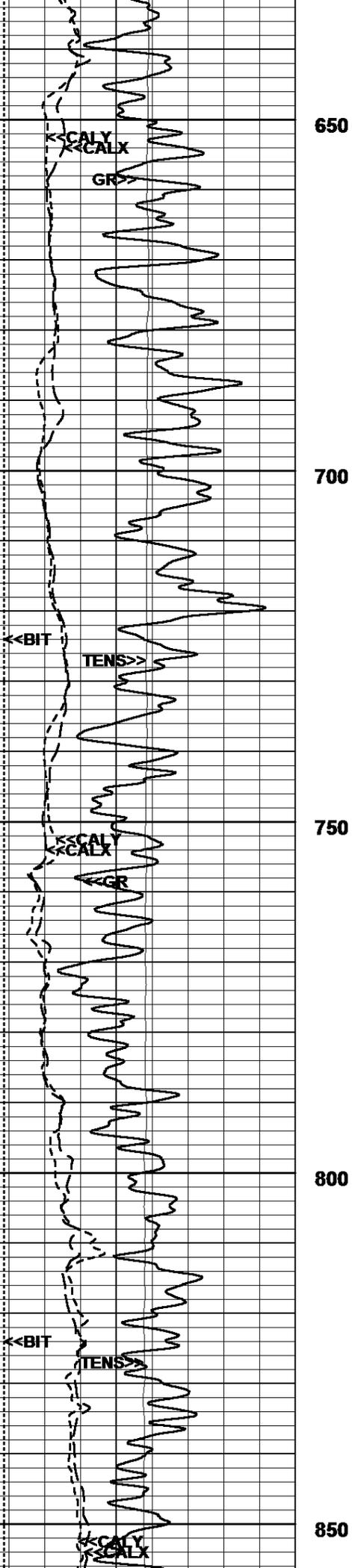
MAIN PASS - LIMESTONE (5"/100Ft)

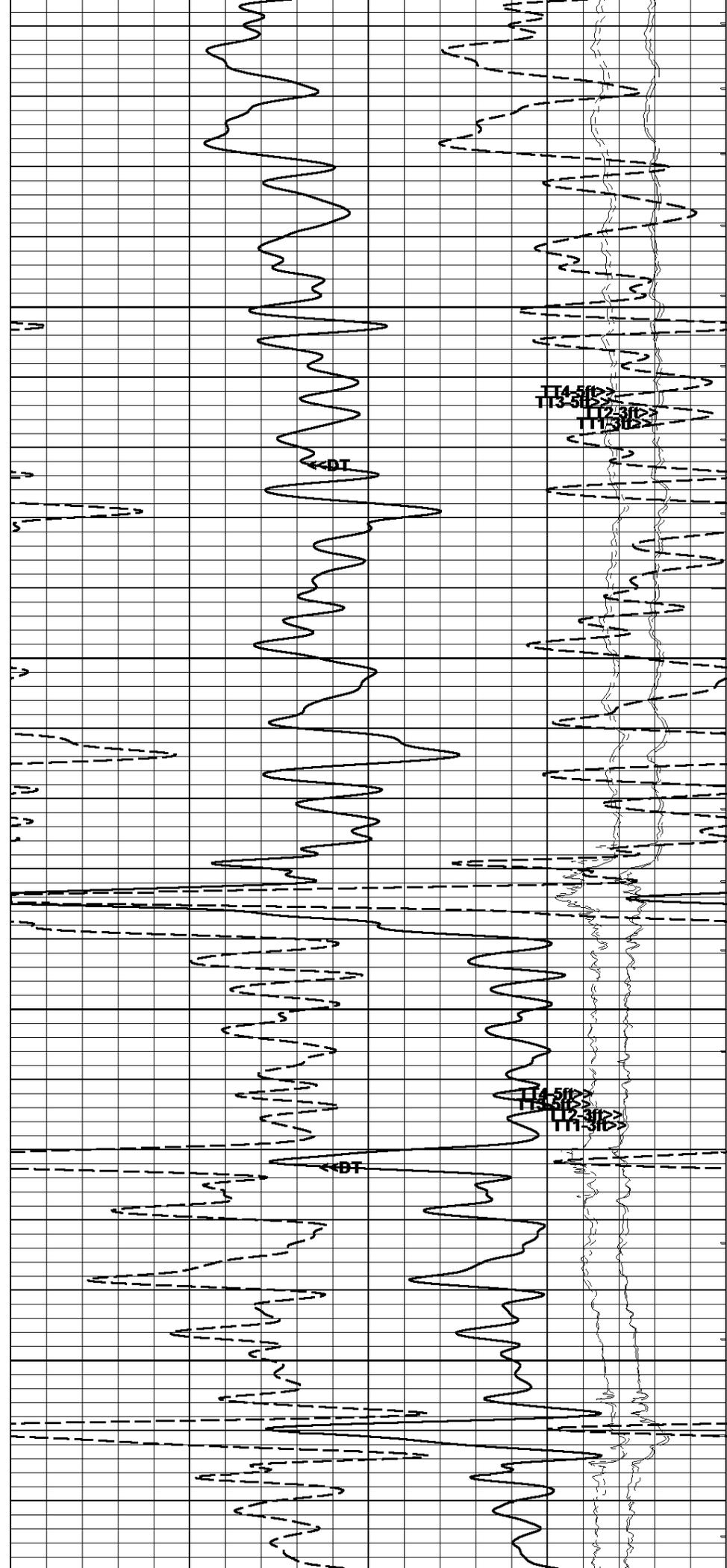
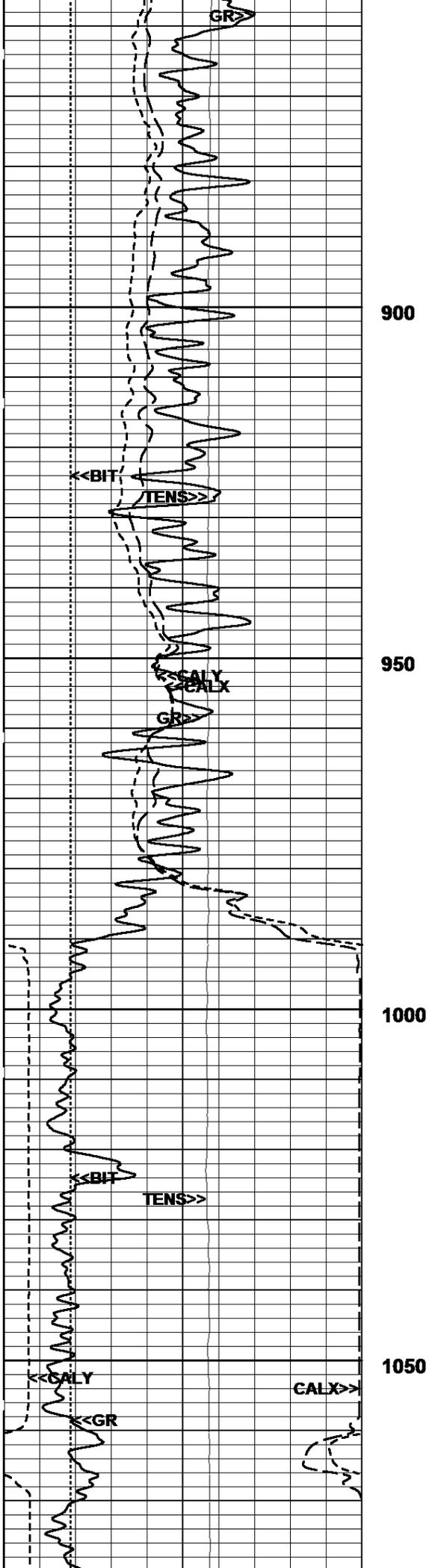
Log UP - (VER 11.19)
End Depth=> 369.90 Feet

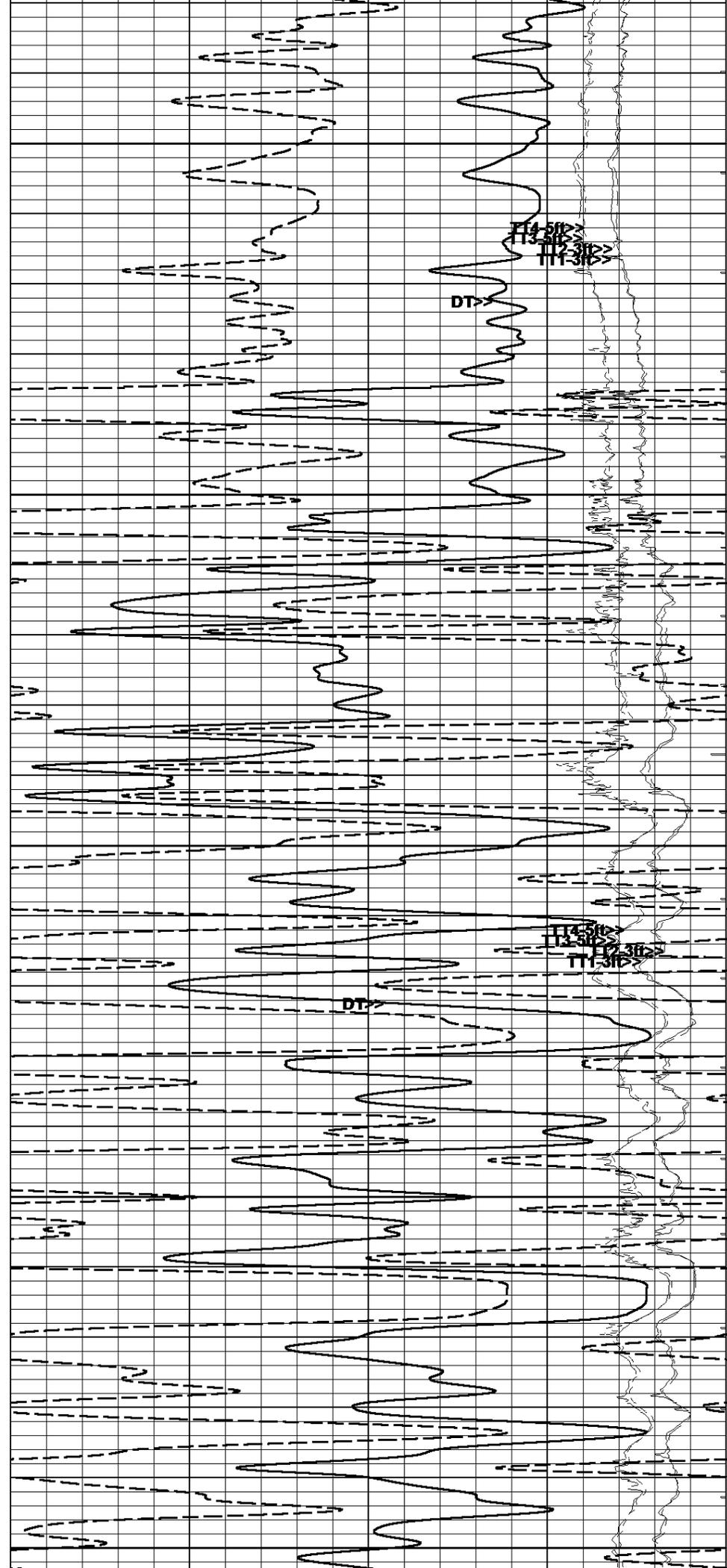
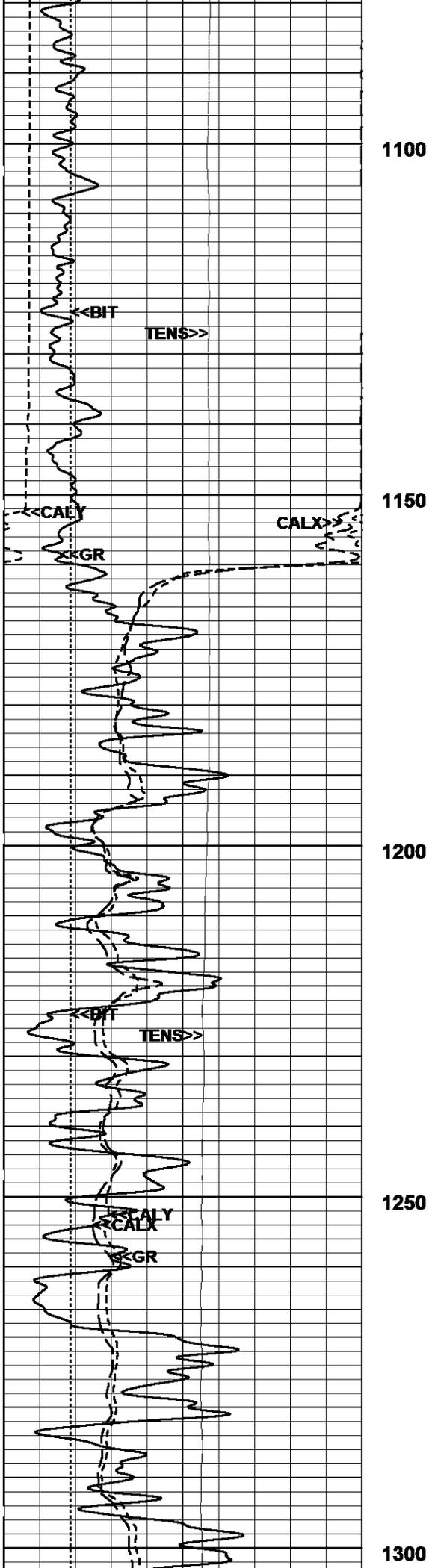
<p>Bit Size (BIT)</p> <p>6. ----- Ref in ----- 16.</p>		<p>TT (TT4-5ft)</p> <p>1500. ----- usecs ----- 0.</p>	
<p>Tension (TENS)</p> <p>5000. ----- Lbs ----- 0.</p>		<p>TT (TT3-5ft)</p> <p>1500. ----- usecs ----- 0.</p>	
<p>Y-Caliper (CALY)</p> <p>6. ----- in ----- 16.</p>		<p>TT (TT2-3ft)</p> <p>1500. ----- usecs ----- 0.</p>	
<p>X-Caliper (CALX)</p> <p>6. ----- in ----- 16.</p>		<p>TT (TT1-3ft)</p> <p>1500. ----- usecs ----- 0.</p>	
<p>Gamma Ray (GR)</p> <p>0. ----- API ----- 150.</p>		<p>Sonic-Porosity (SPHI)</p> <p>30. ----- Percent ----- -10.</p>	
		<p>Delta T (DT)</p> <p>140. ----- usecs/ft ----- 40.</p>	

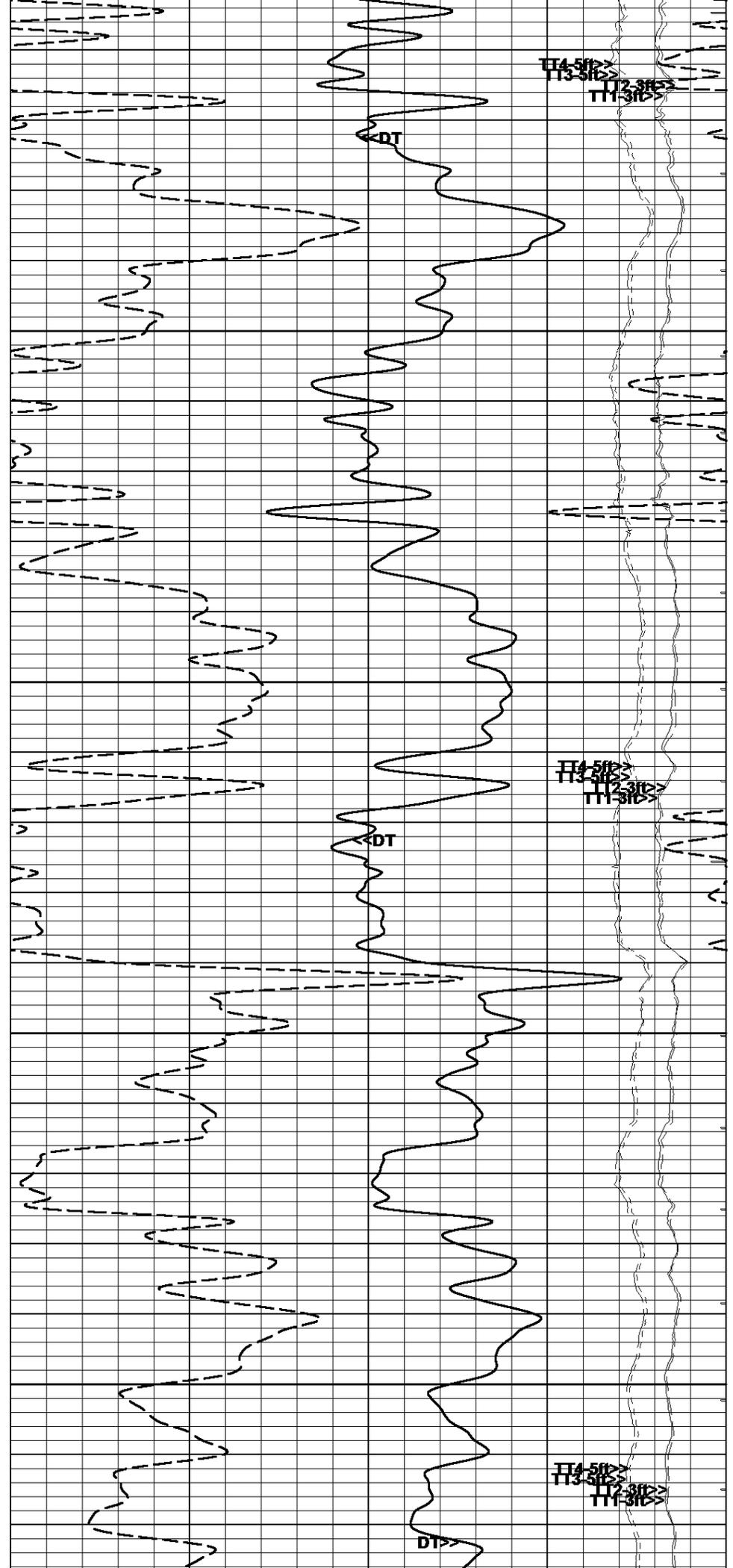
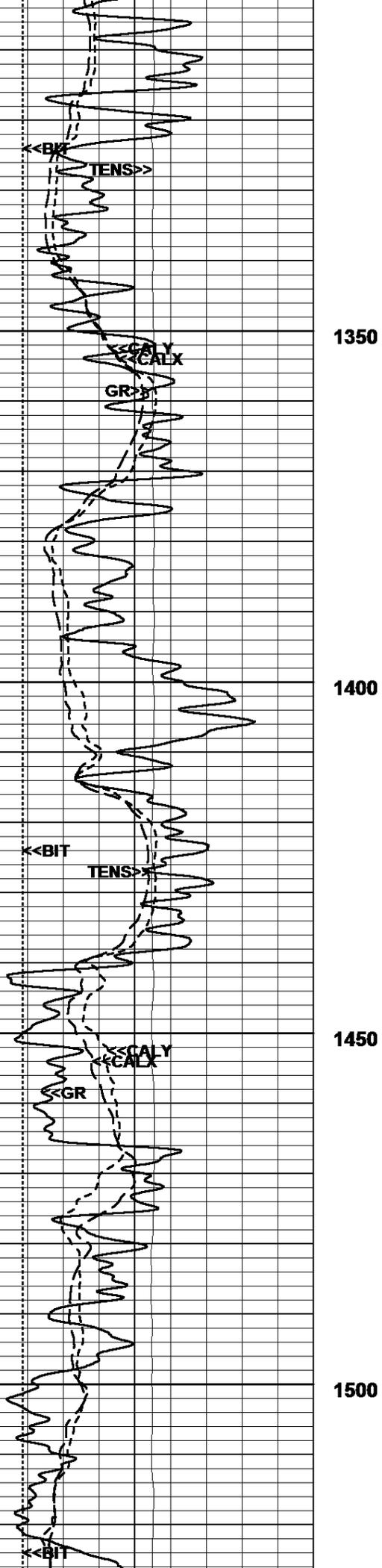


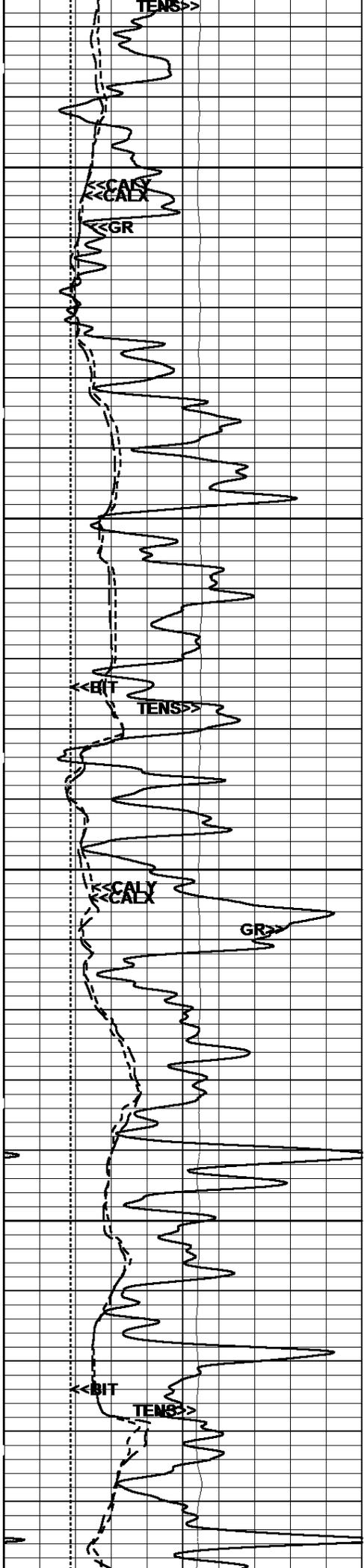










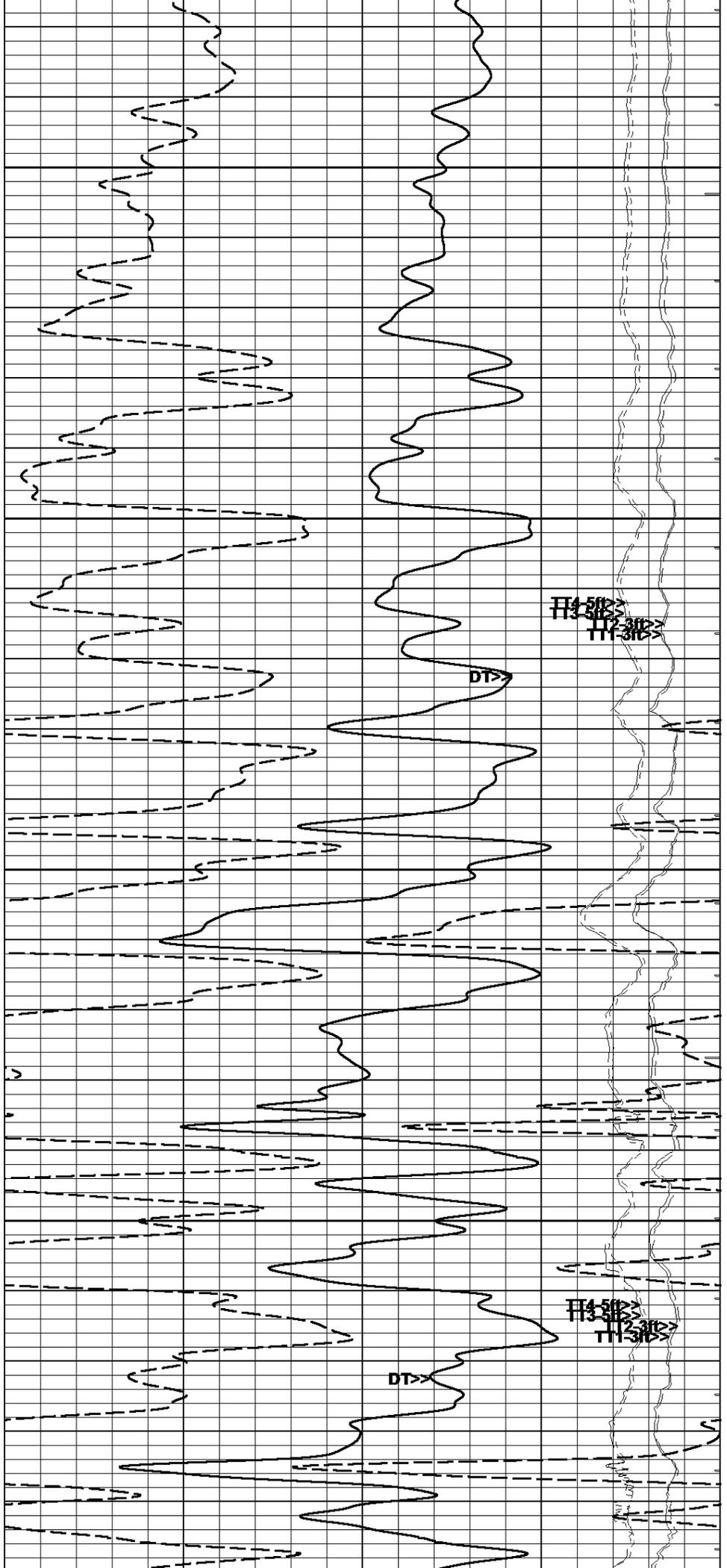


1550

1600

1650

1700

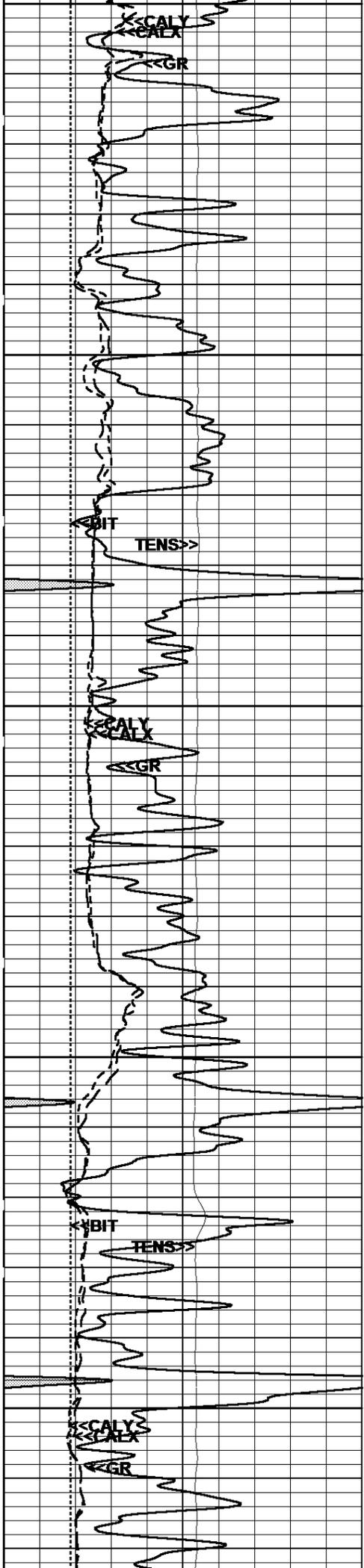


H1 3H
H2 3H

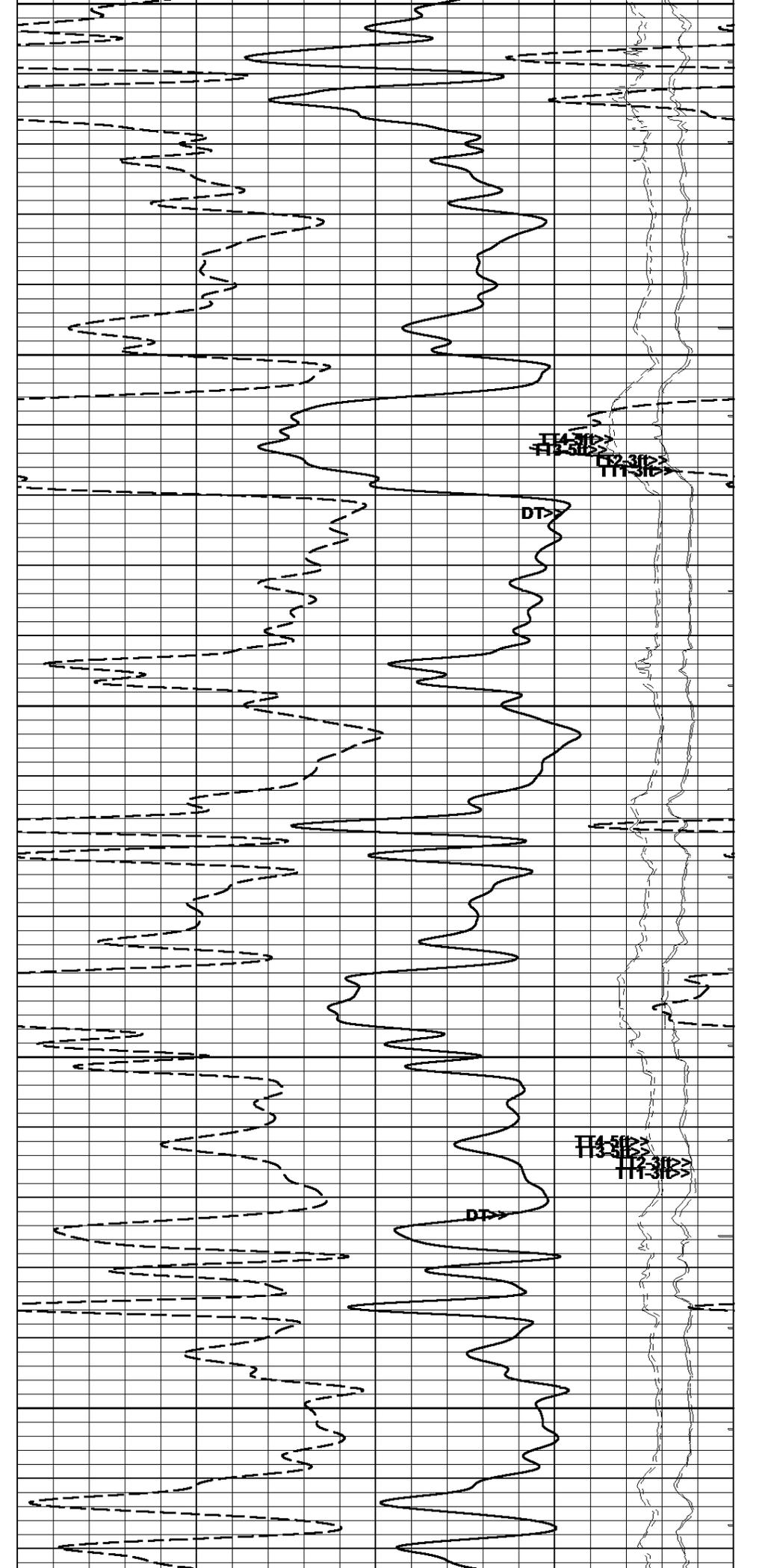
DT

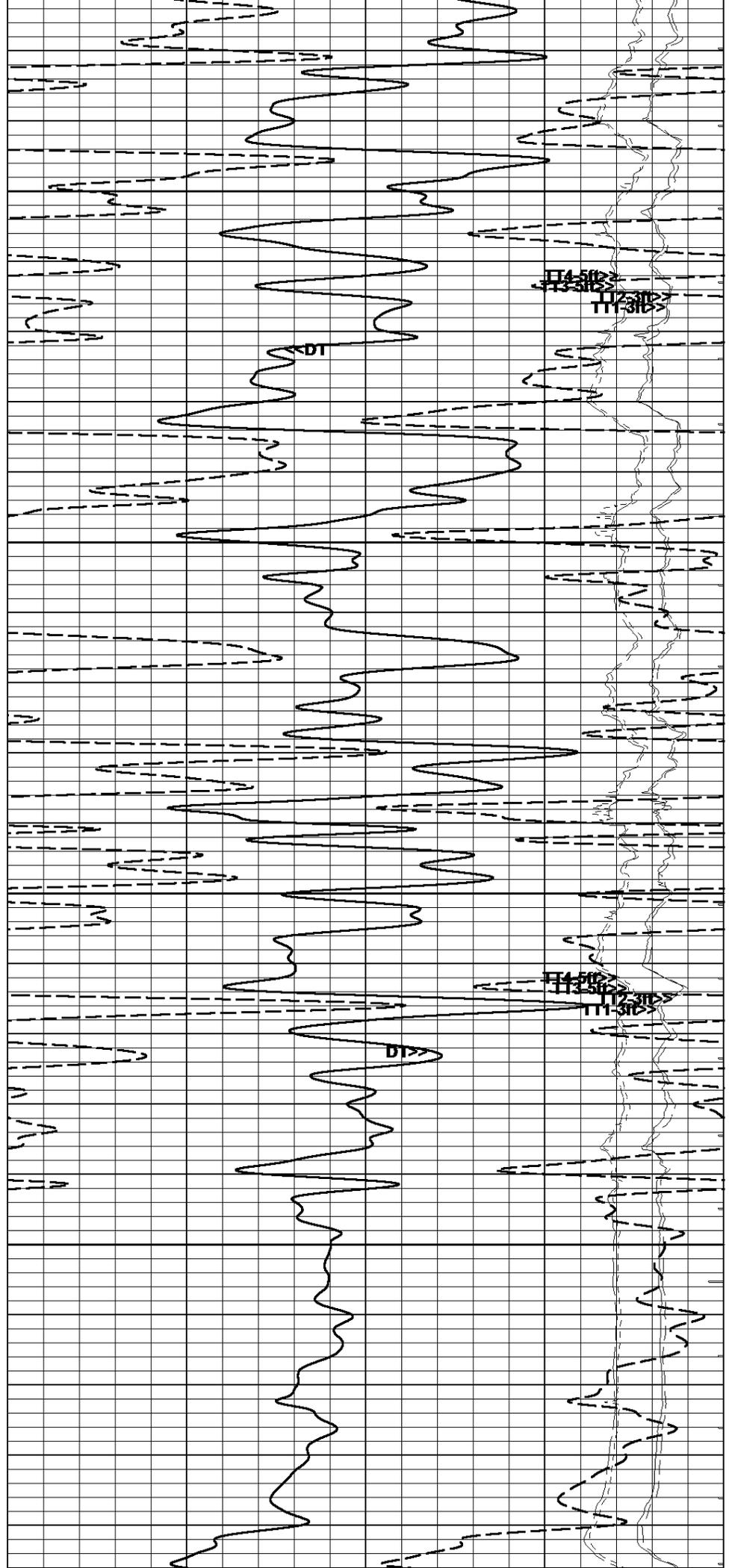
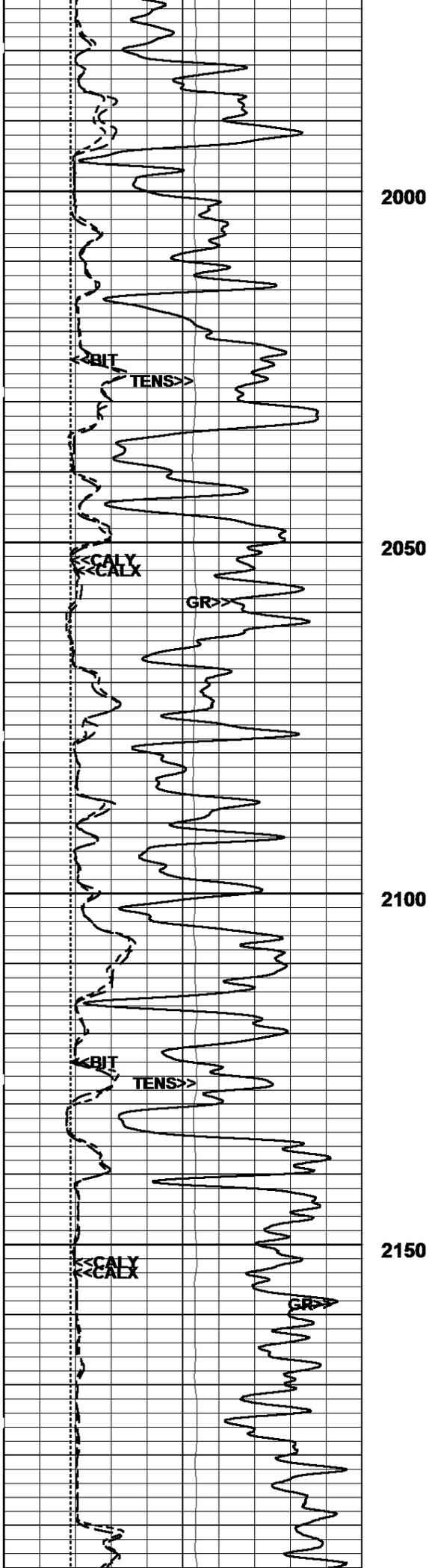
H3 3H
H4 3H

DT



1750
1800
1850
1900
1950





2200

<BIT
TENS>>

2250

<<CALX
CALX

<GR

2300

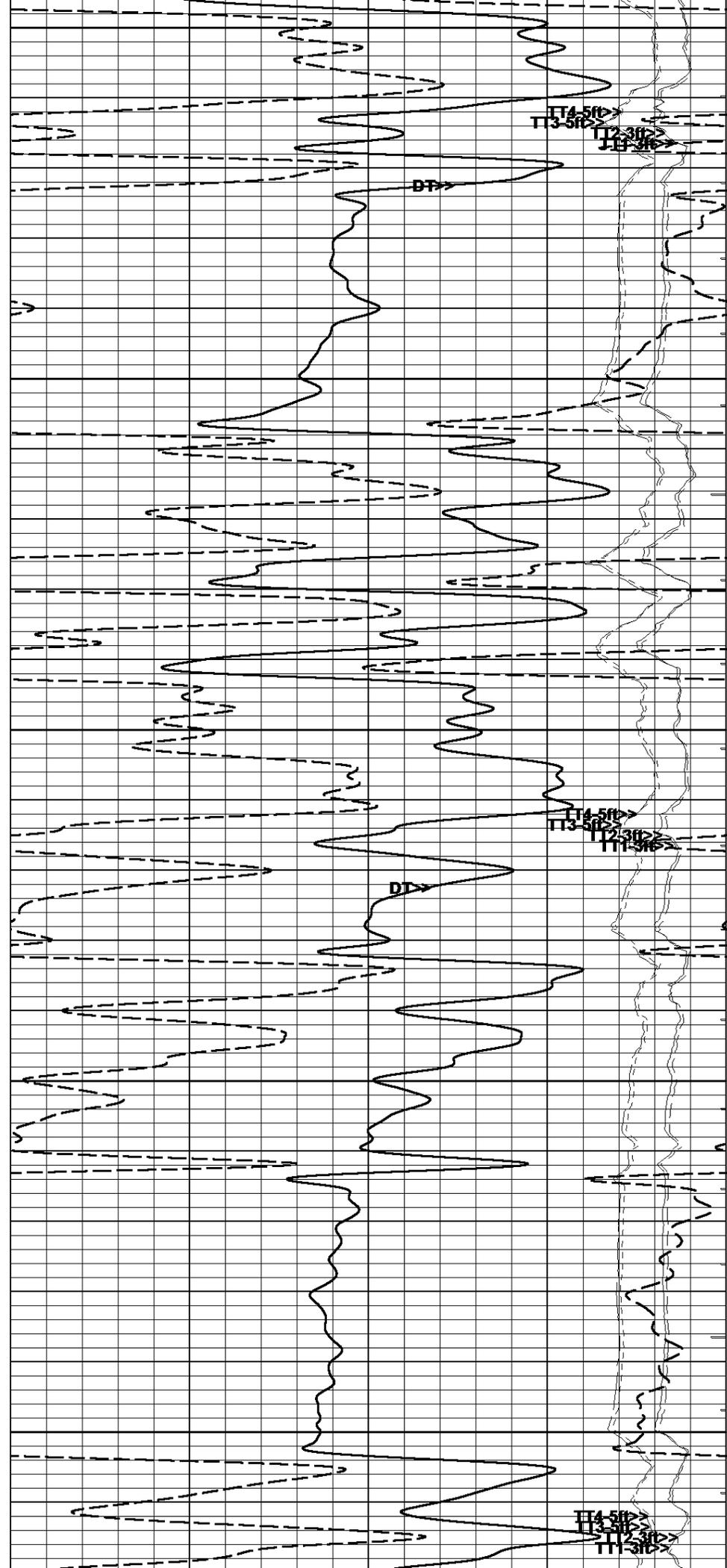
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TENS>>

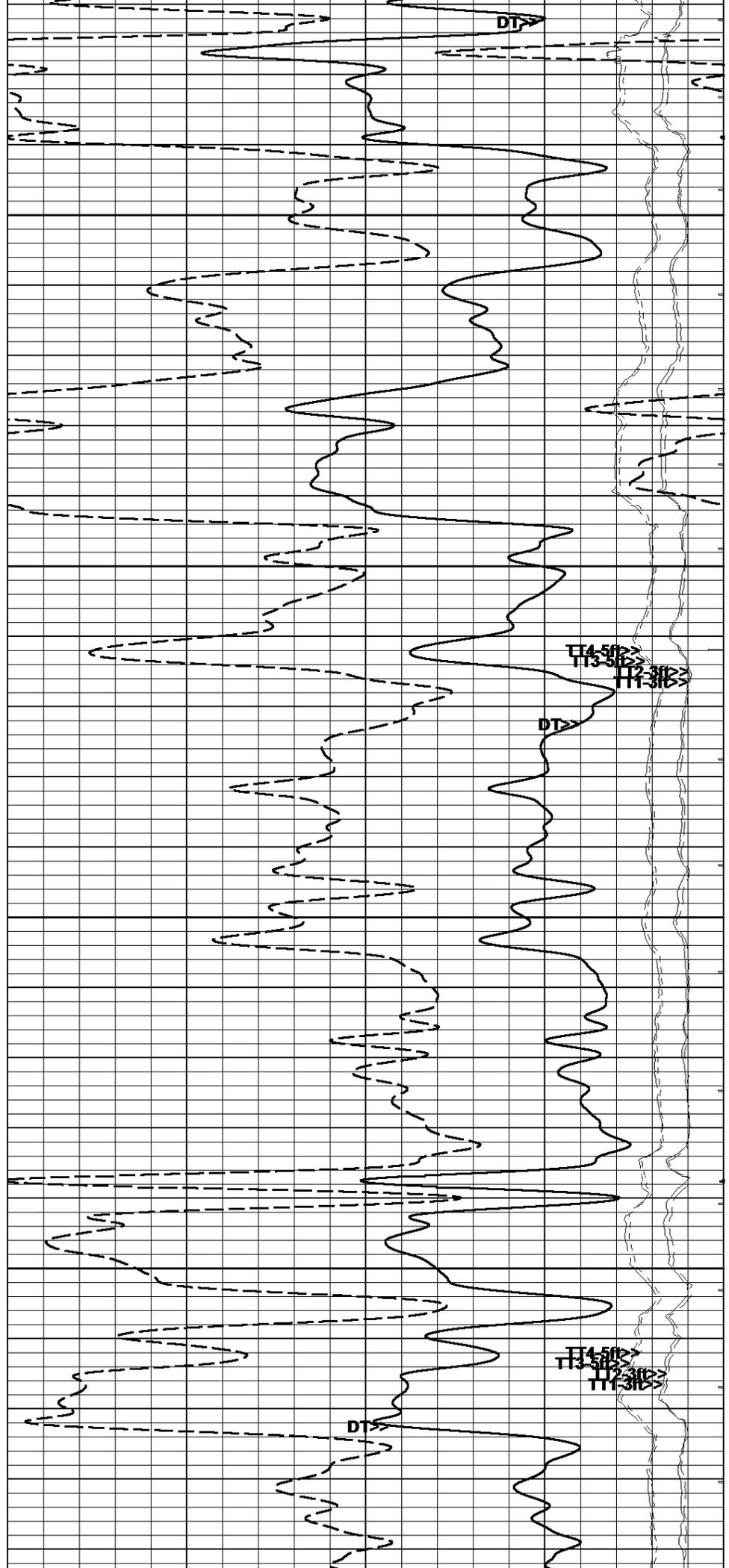
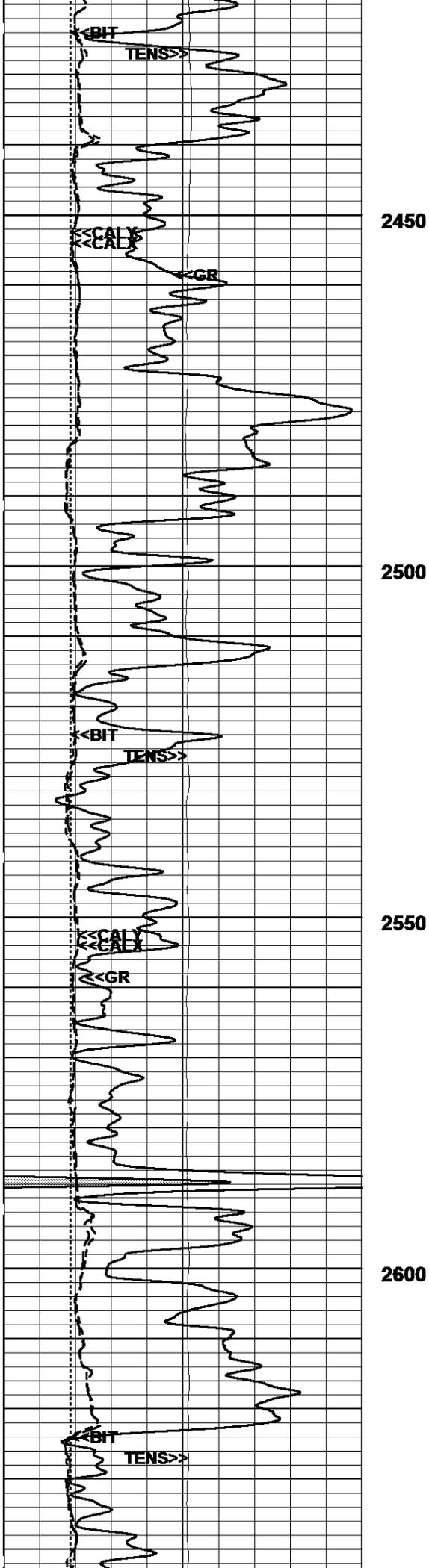
2350

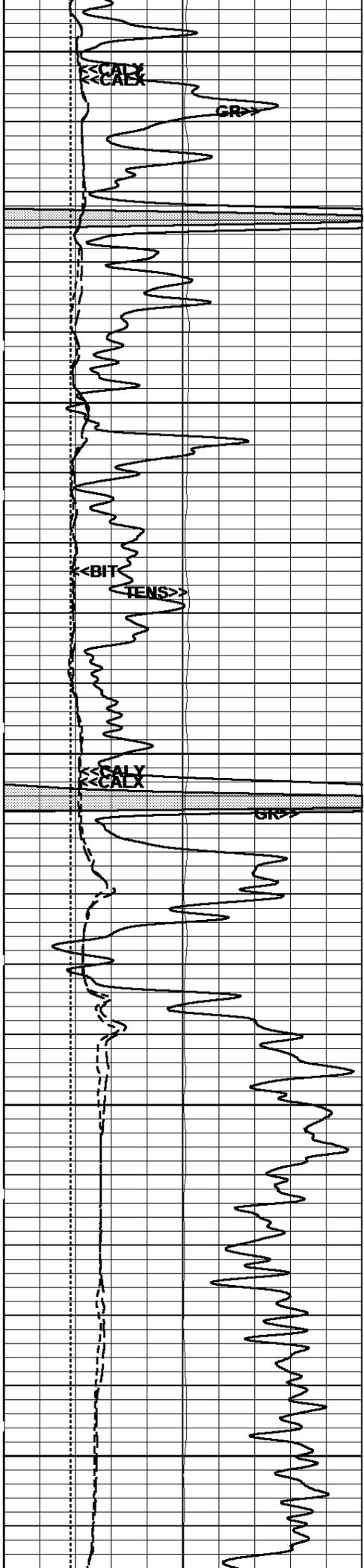
<<CALX

<GR

2400







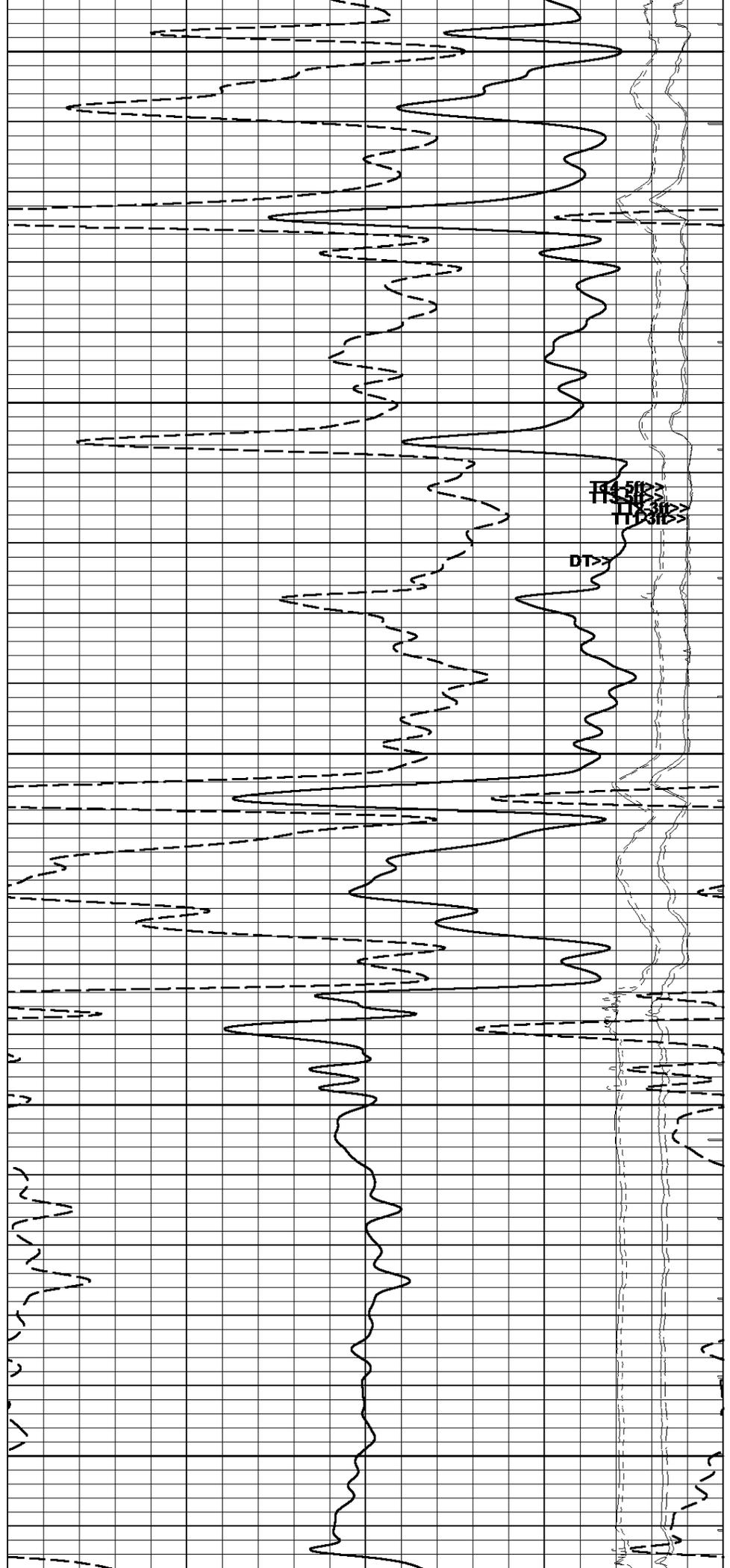
2650

2700

2750

2800

2850

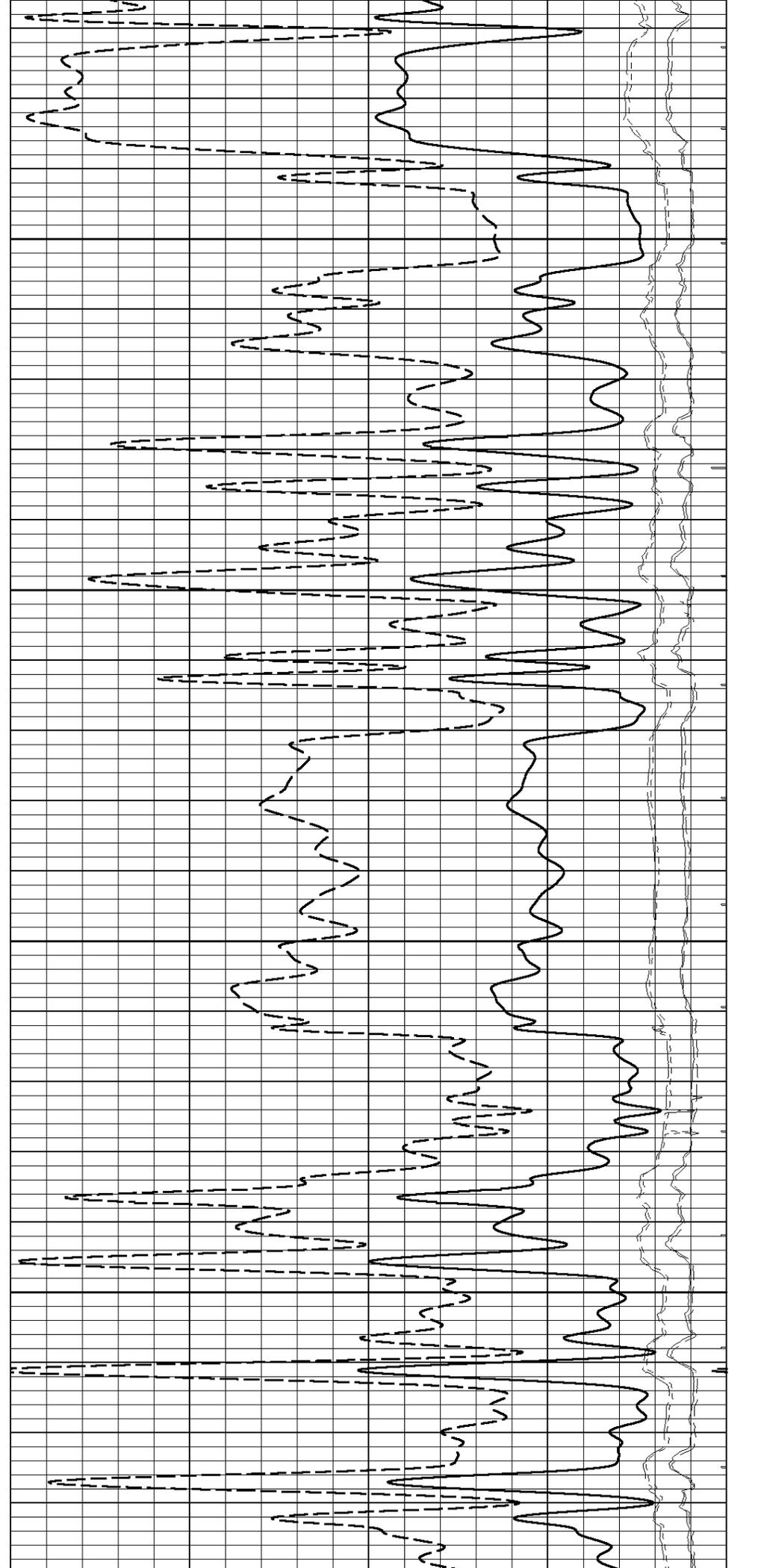
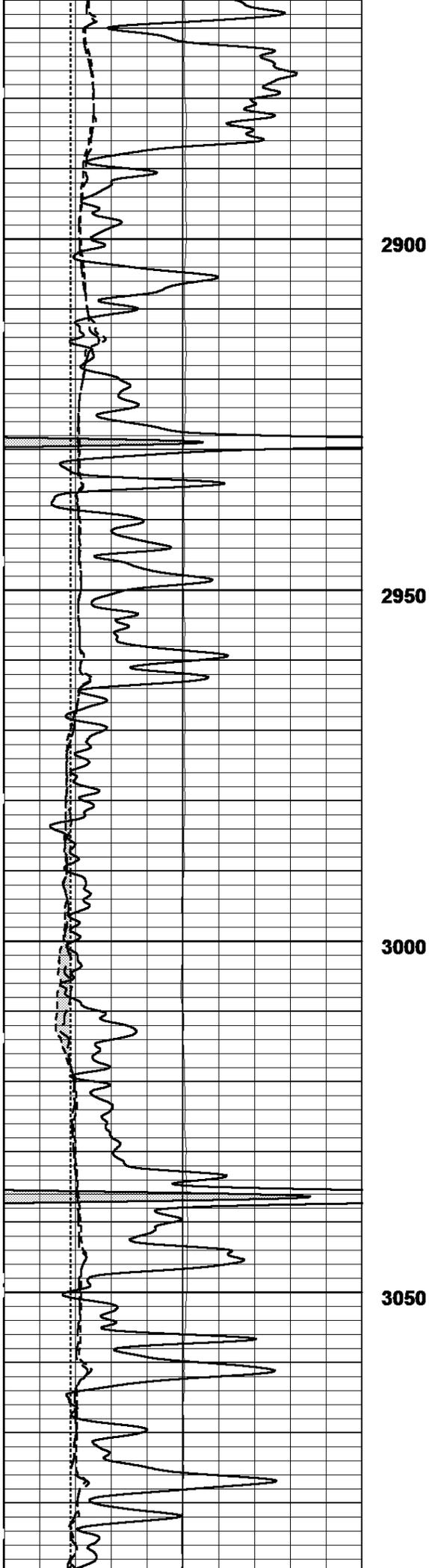


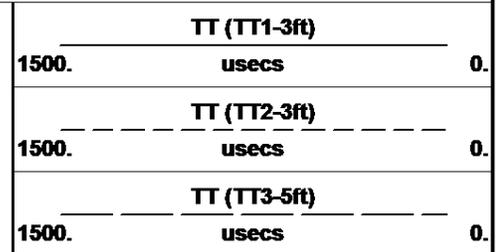
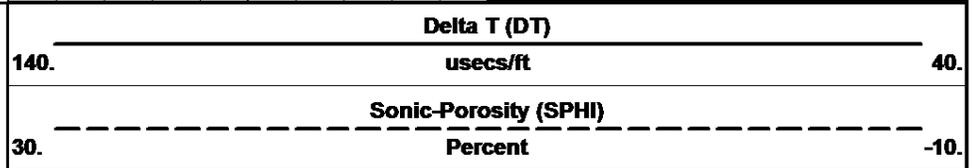
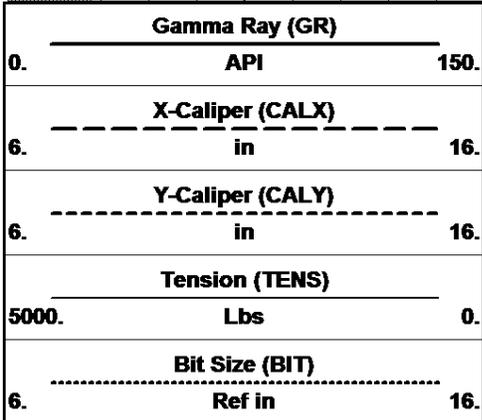
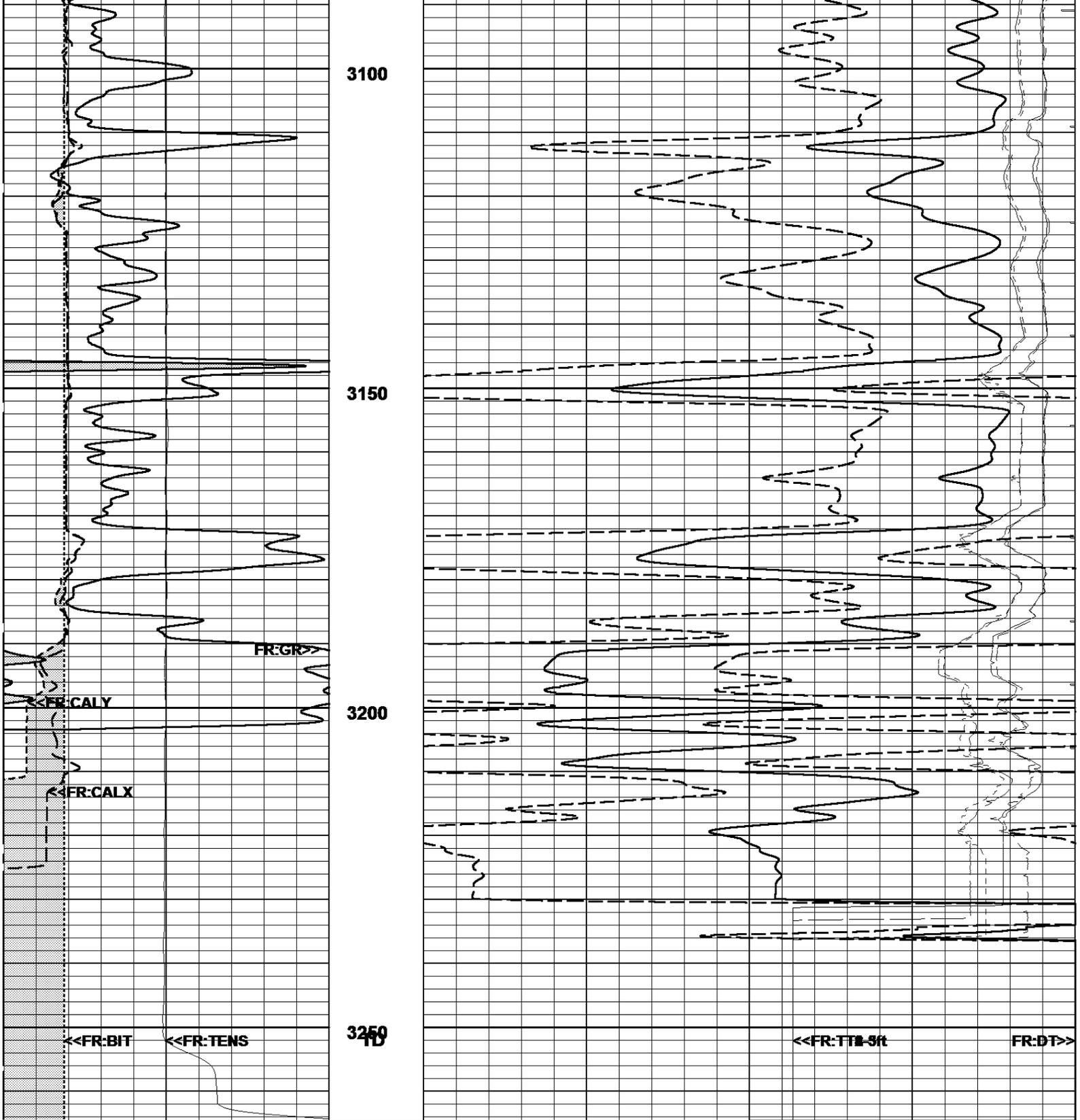
CALX
CALX
CALX

GRV

BT

FNSV





1500. TT (TT4-5ft) usecs 0.

08/27/2015
15:28:28 => Start Time

MAIN PASS - LIMESTONE (5"/100Ft)

Log UP - (VER 11.19)
Start Depth=> 3264.60 Feet

08/27/2015
15:14:49 => End Time

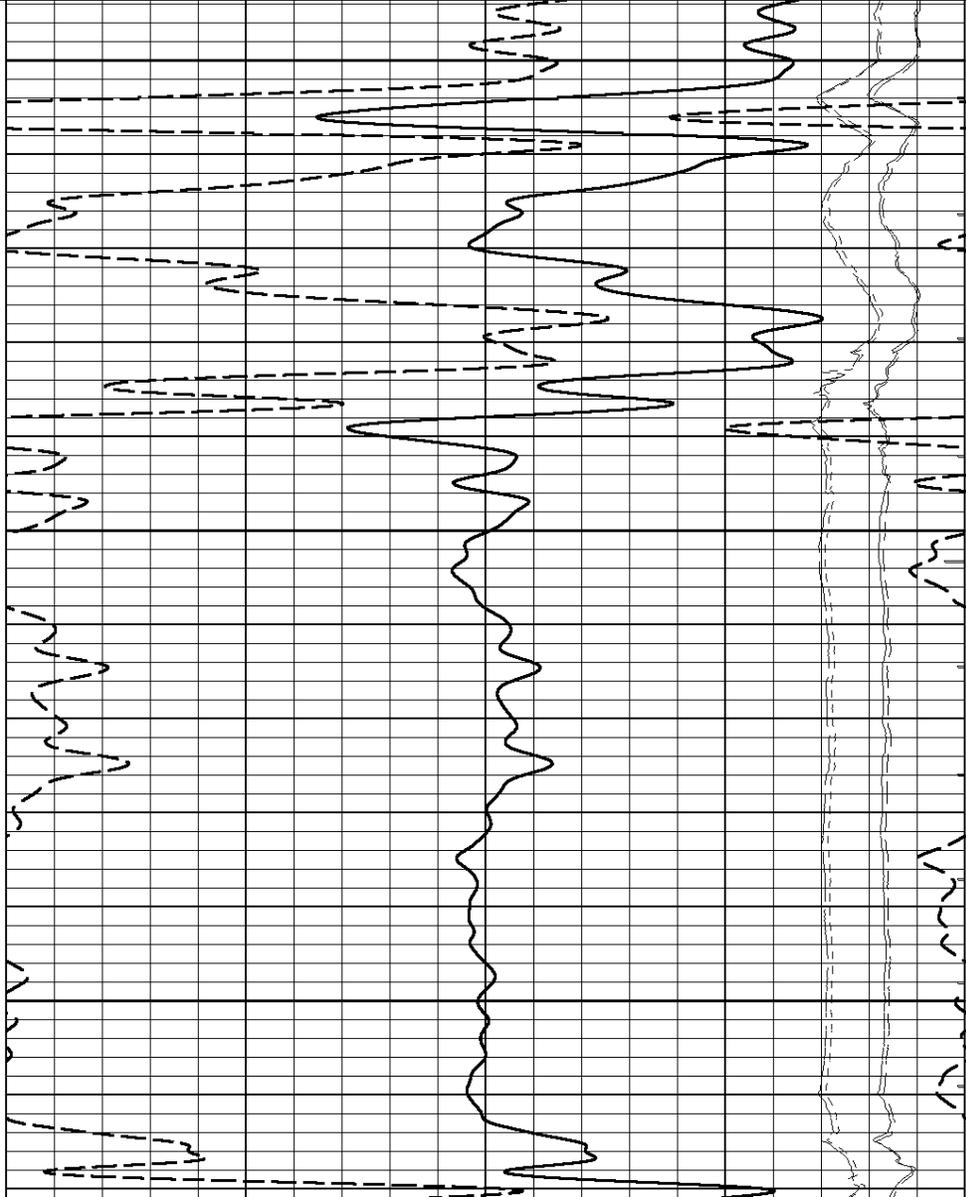
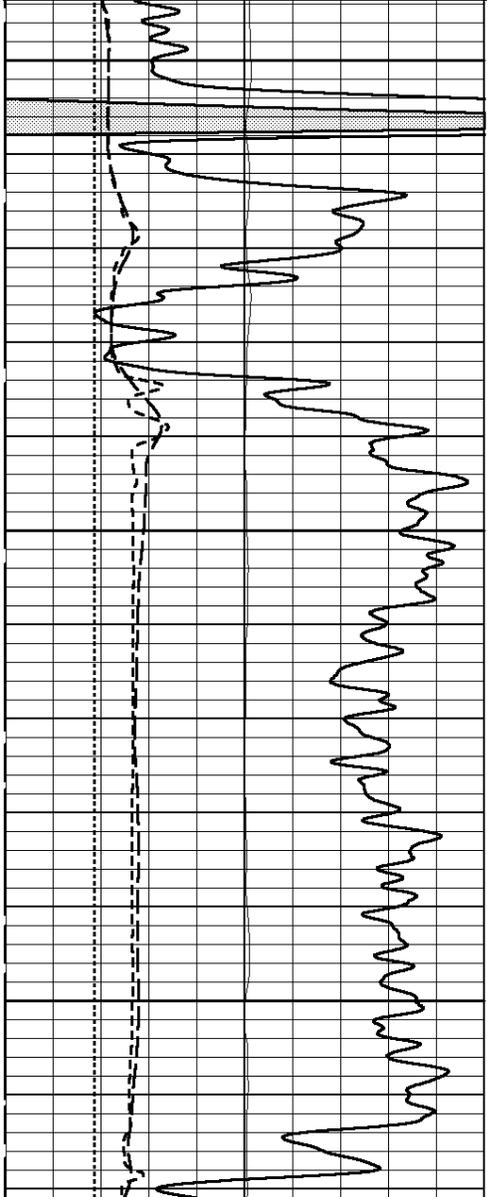
REPEAT PASS - LIMESTONE (5"/100Ft)

Log UP - (VER 11.19)
End Depth=> 2743.80 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.

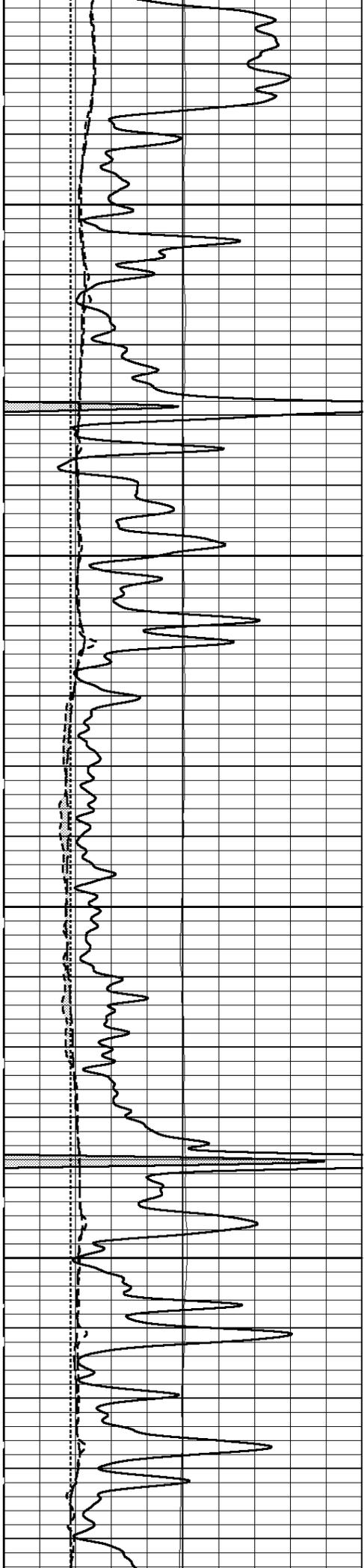
Sonic-Porosity (SPHI)		
30.	Percent	-10.
Delta T (DT)		
140.	usecs/ft	40.



2750

2800

2850

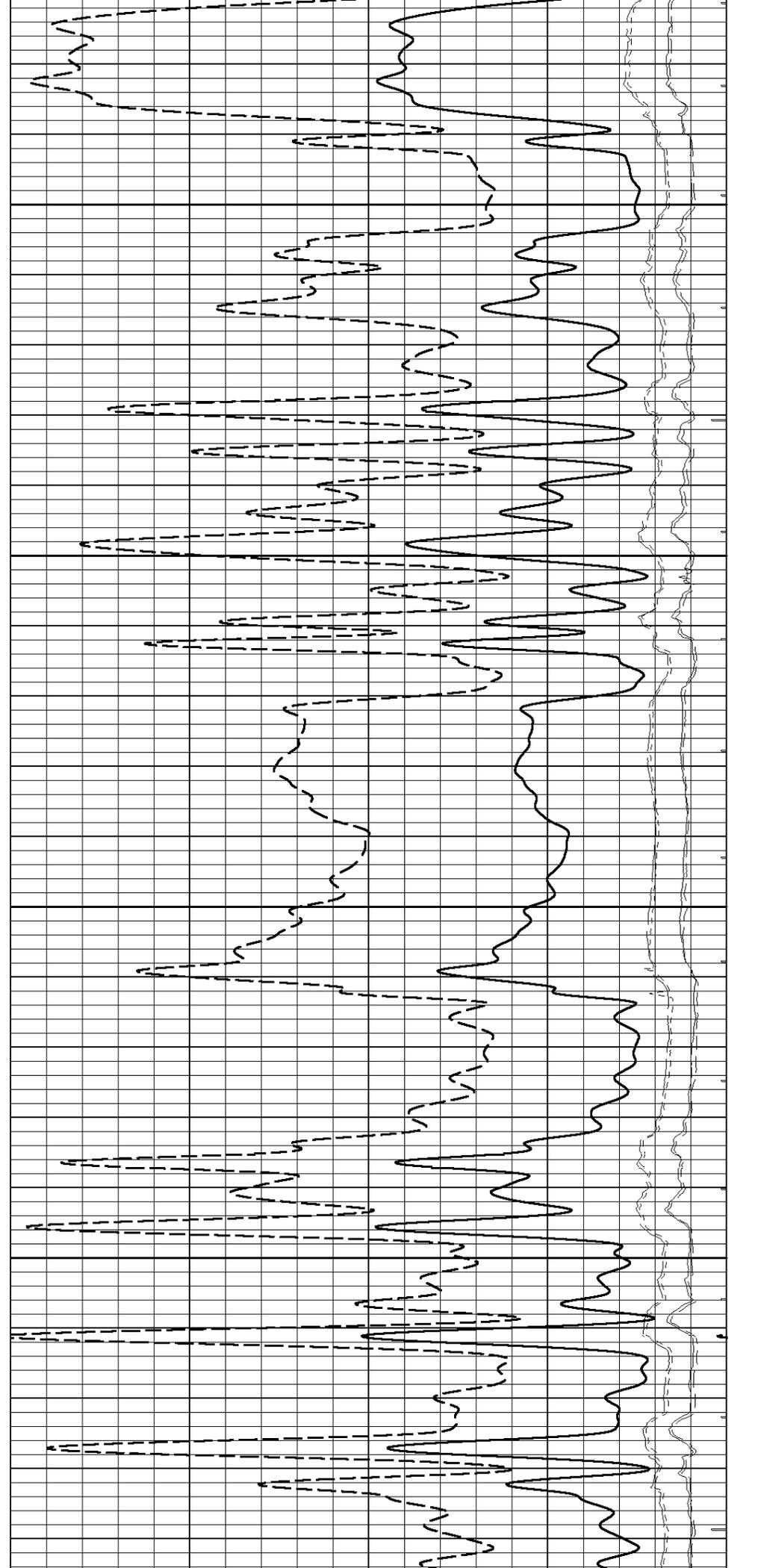


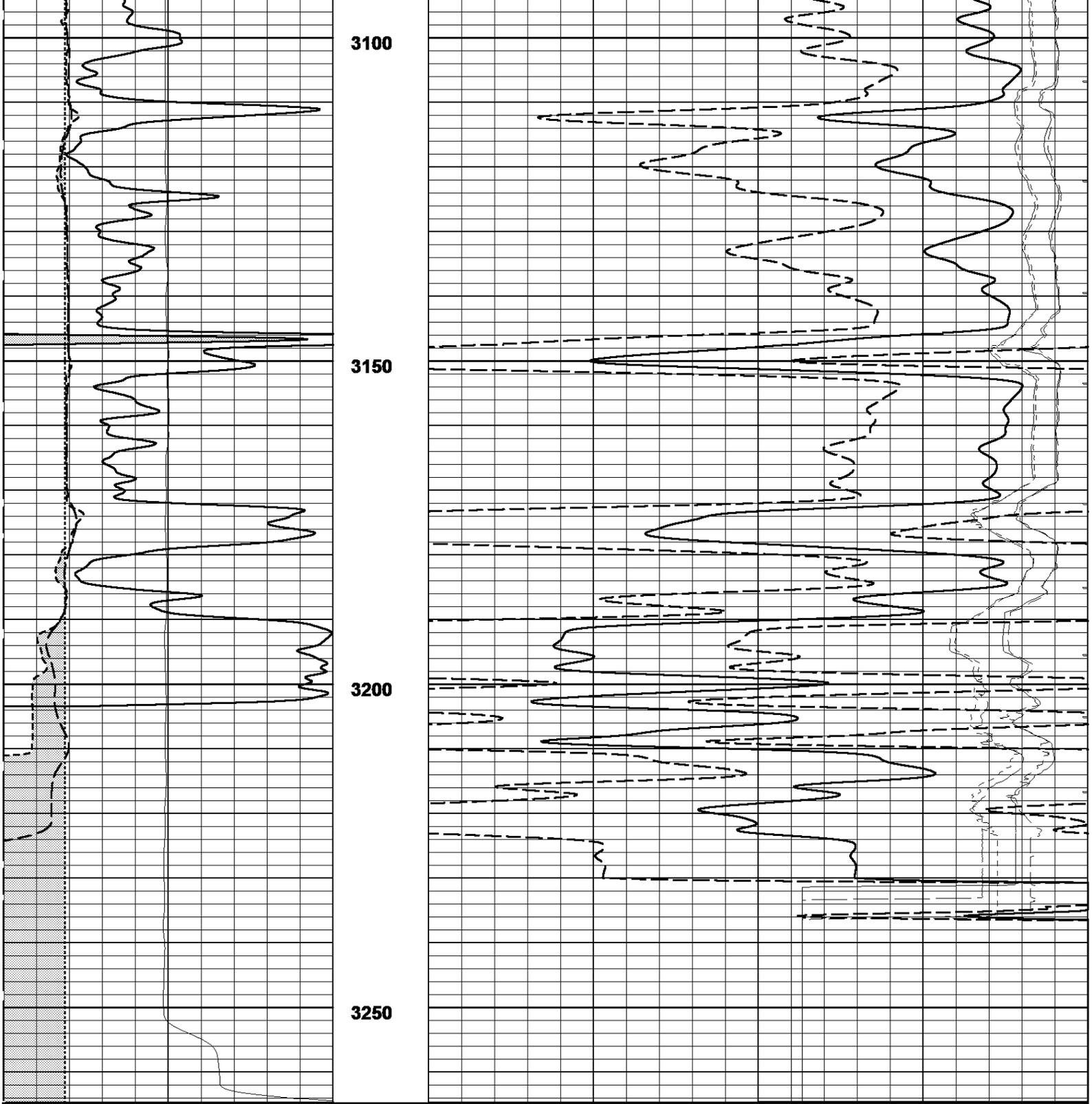
2900

2950

3000

3050

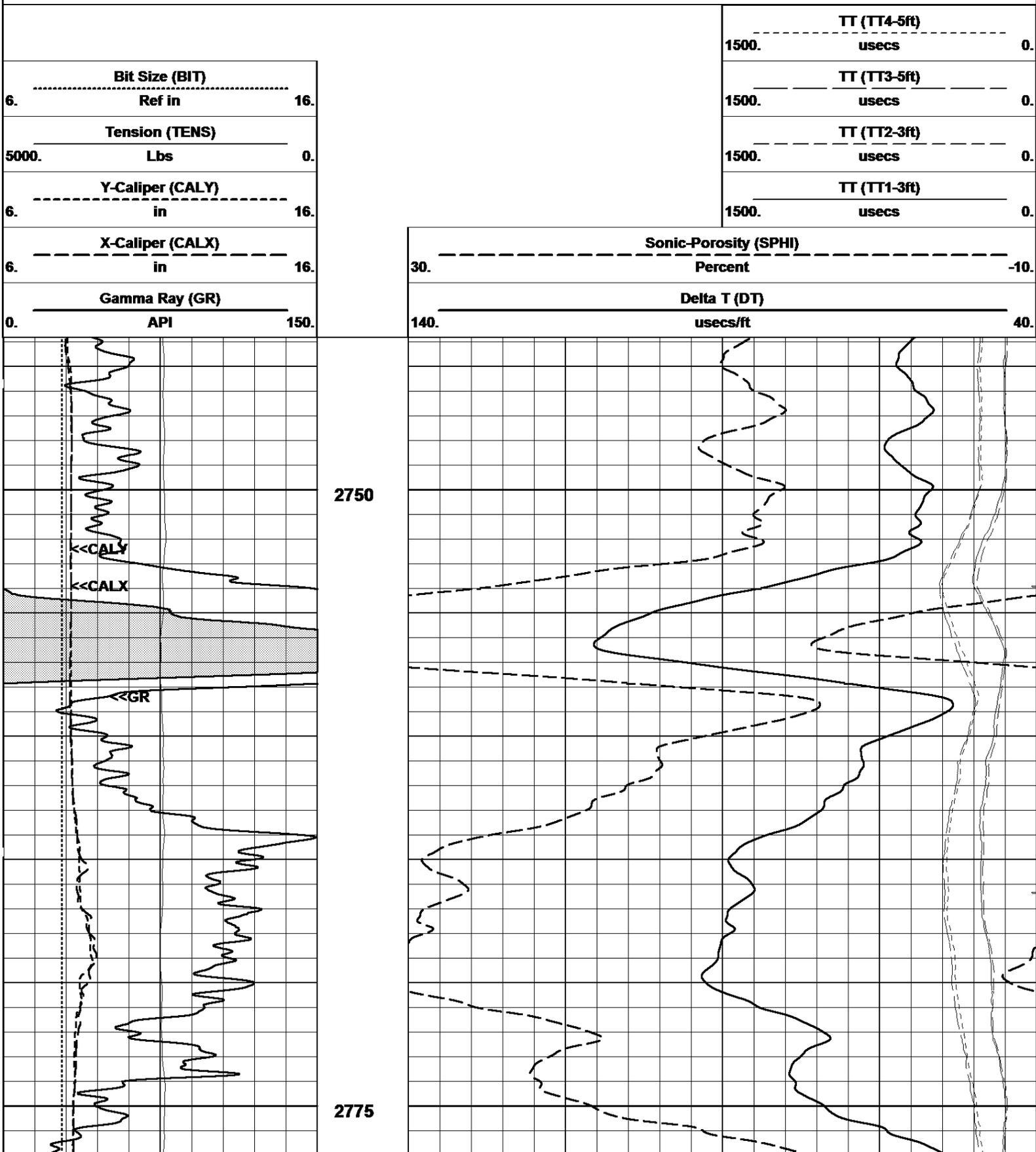


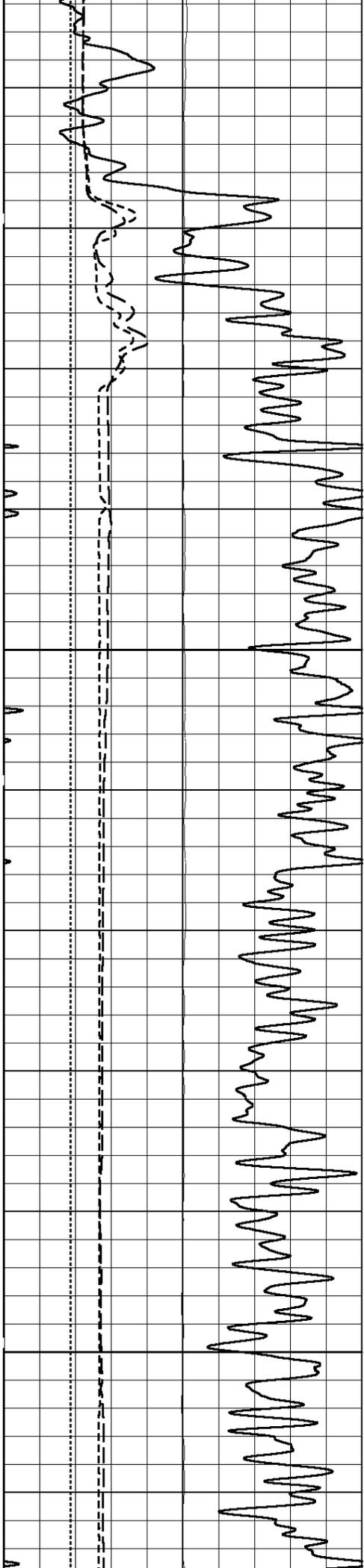


Gamma Ray (GR)		
0.	API	150.
X-Caliper (CALX)		
6.	in	16.
Y-Caliper (CALY)		
6.	in	16.
Tension (TENS)		
5000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.

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

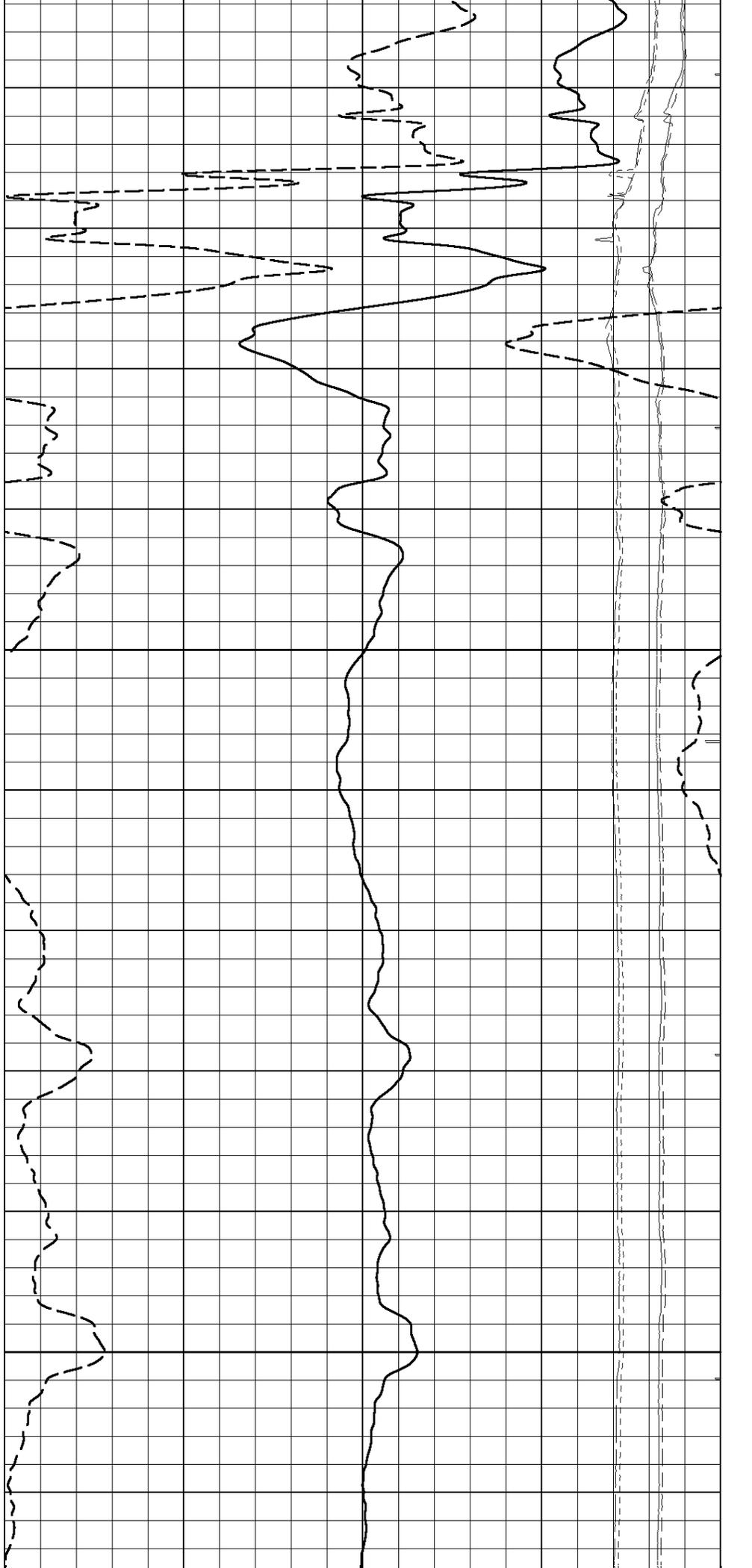
TT (TT1-3ft)		
1500.	usecs	0.
TT (TT2-3ft)		
1500.	usecs	0.
TT (TT3-5ft)		
1500.	usecs	0.
TT (TT4-5ft)		
1500.	usecs	0.

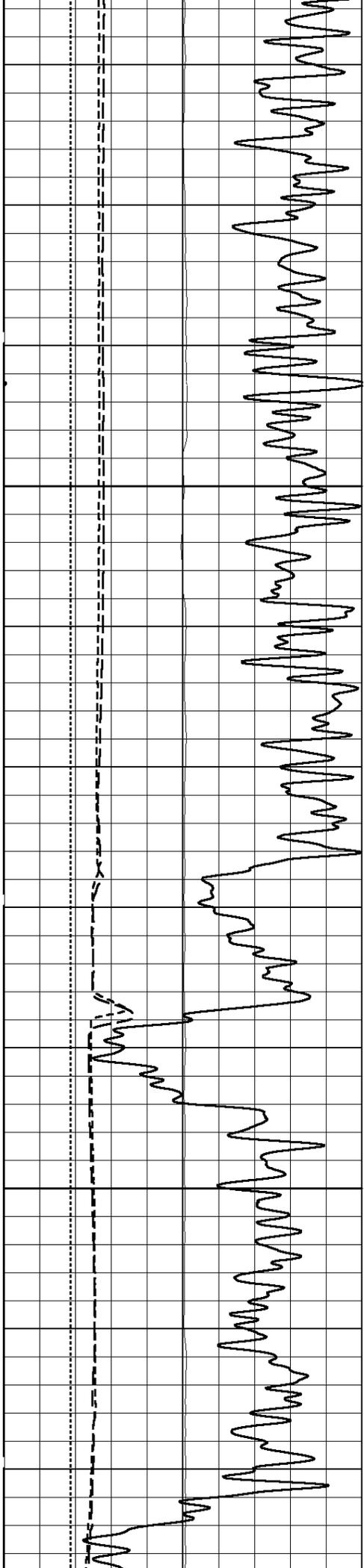




2800

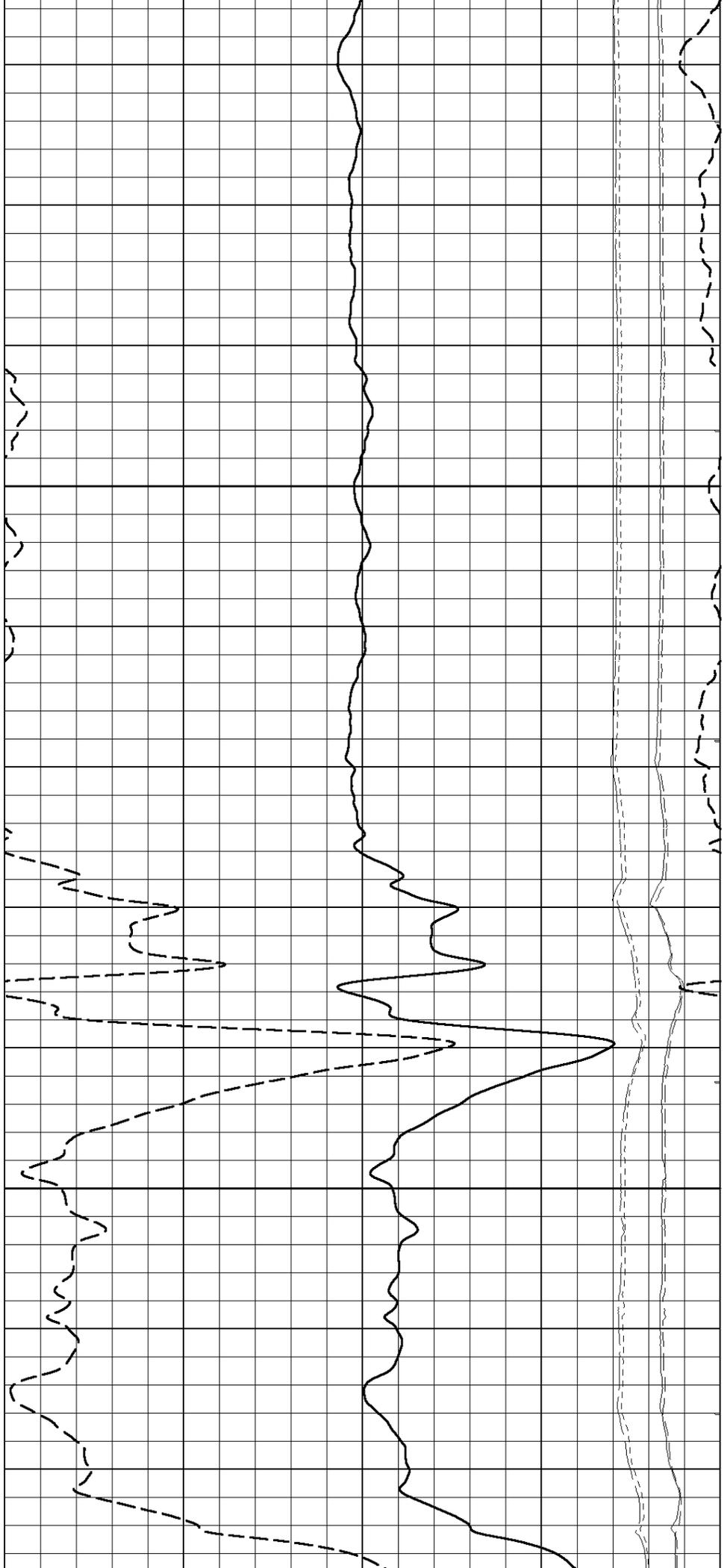
2825

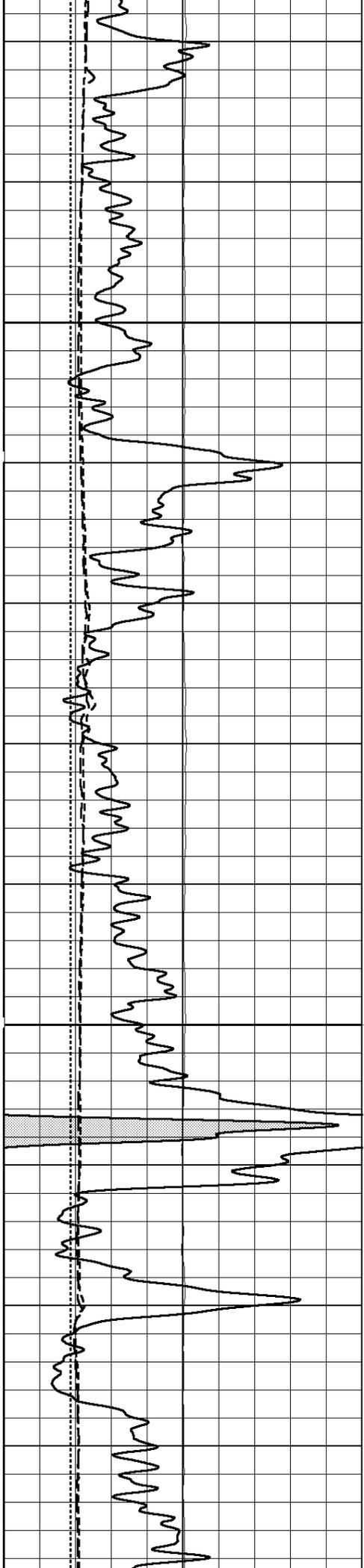




2850

2875

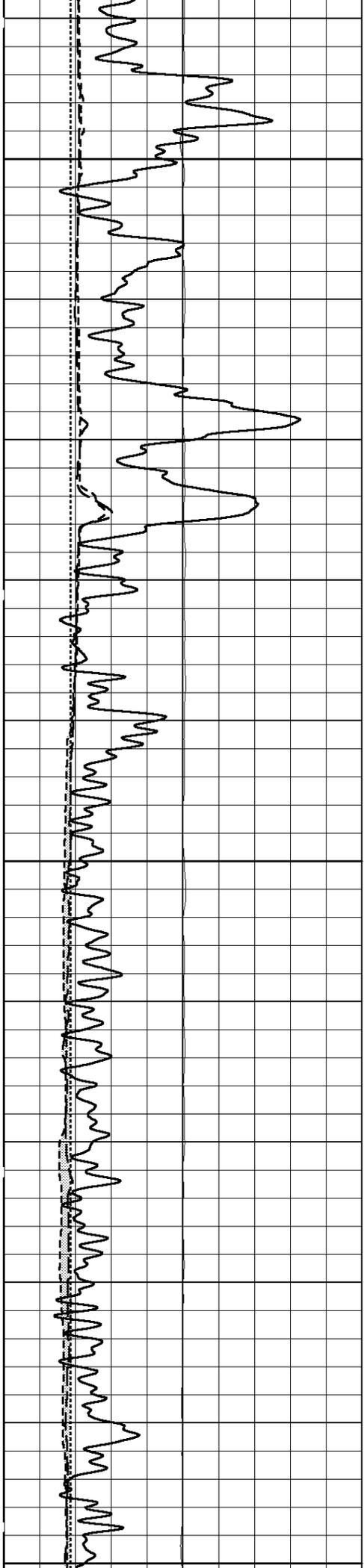




2900

2925

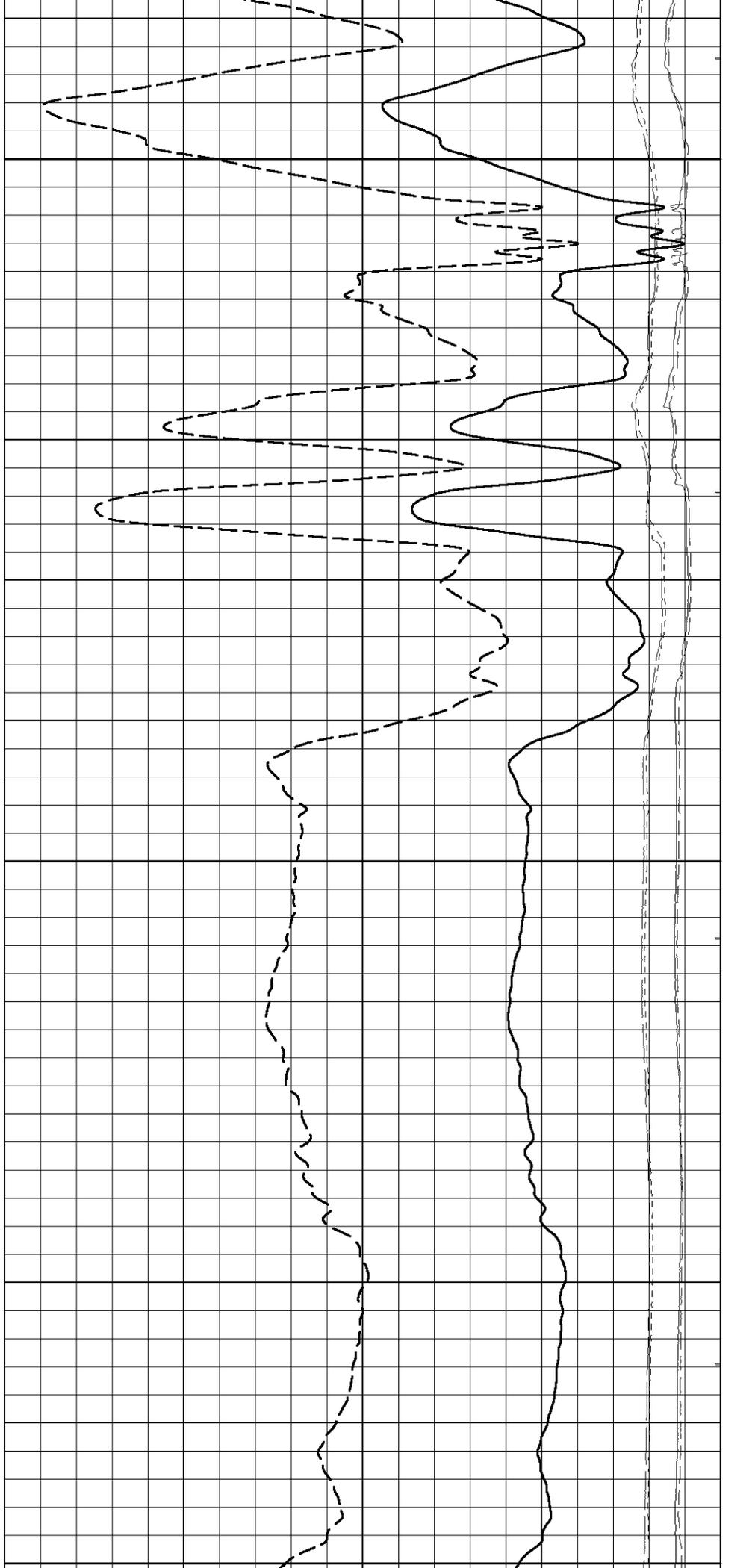


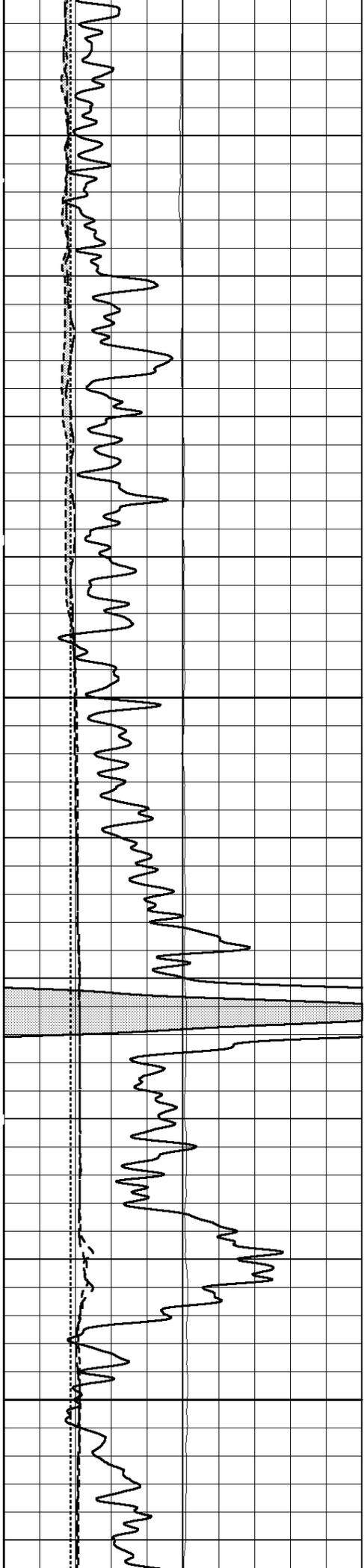


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2975

3000

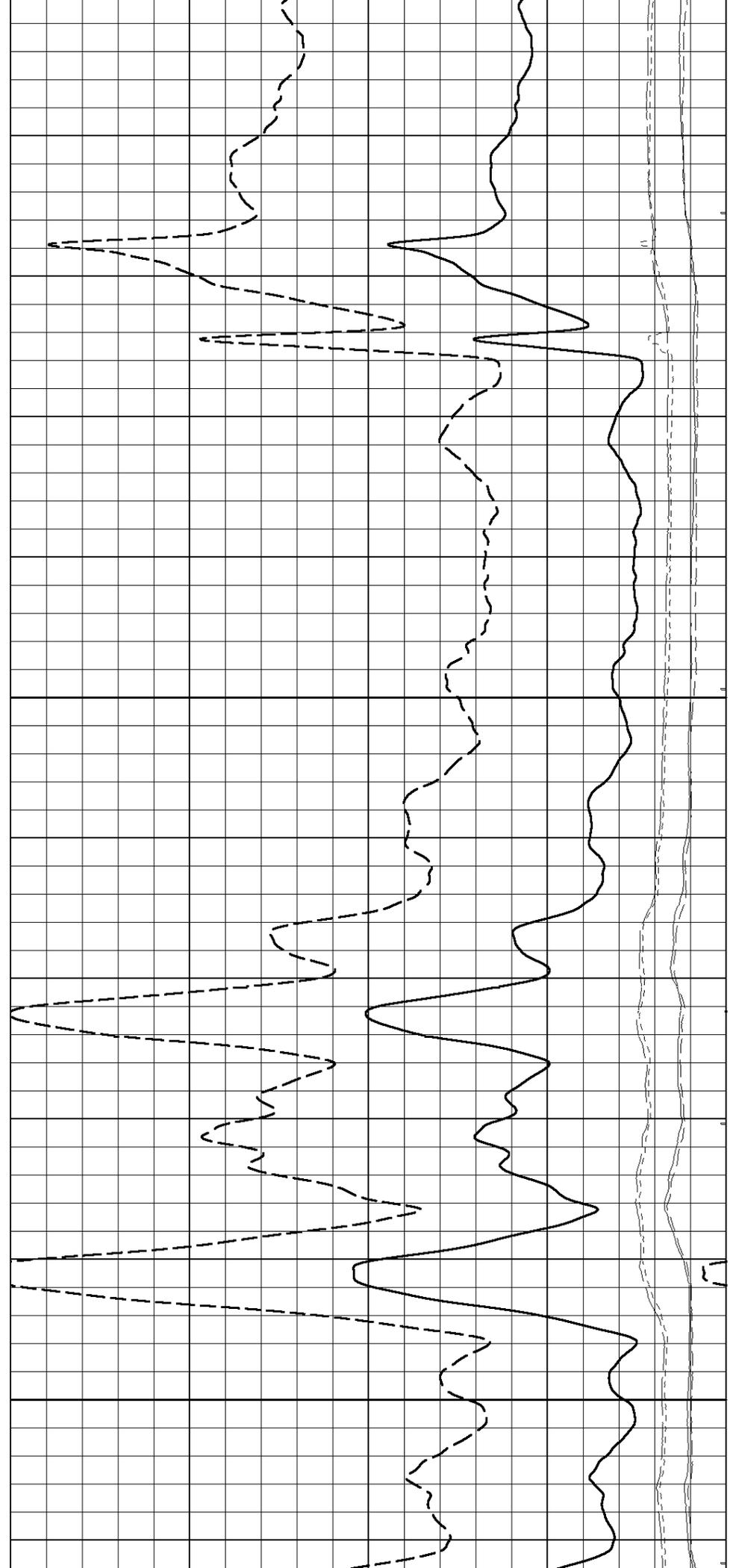


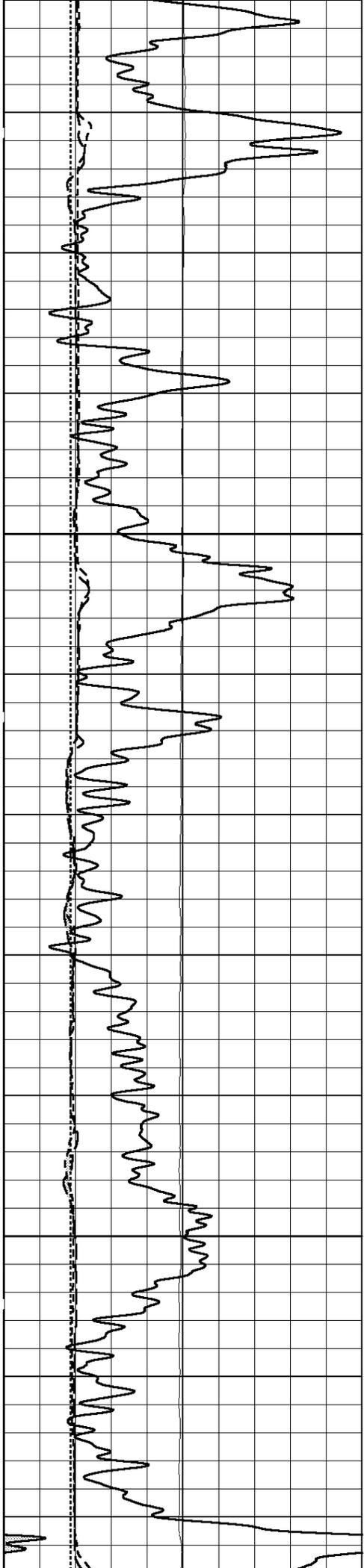


3000

3025

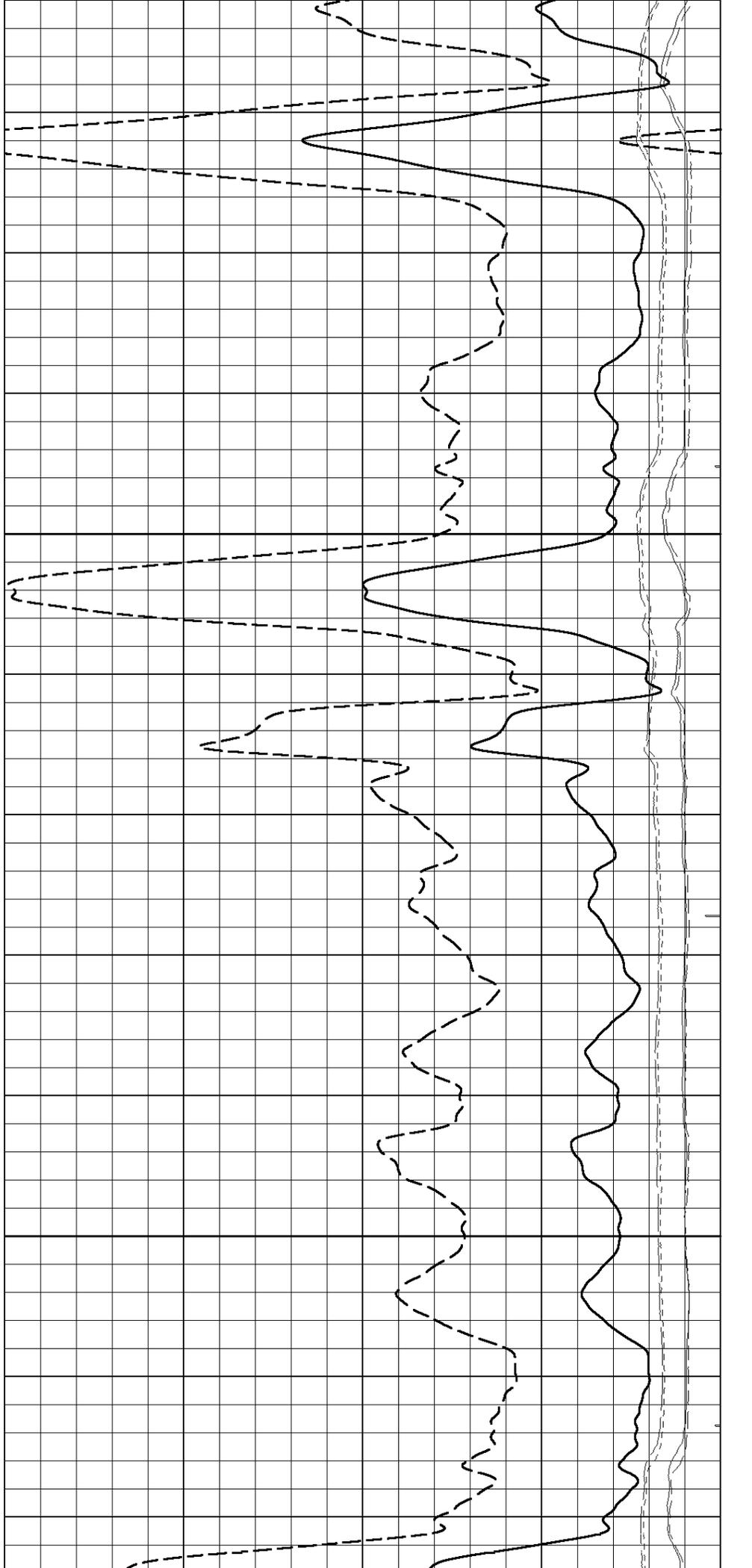
3050

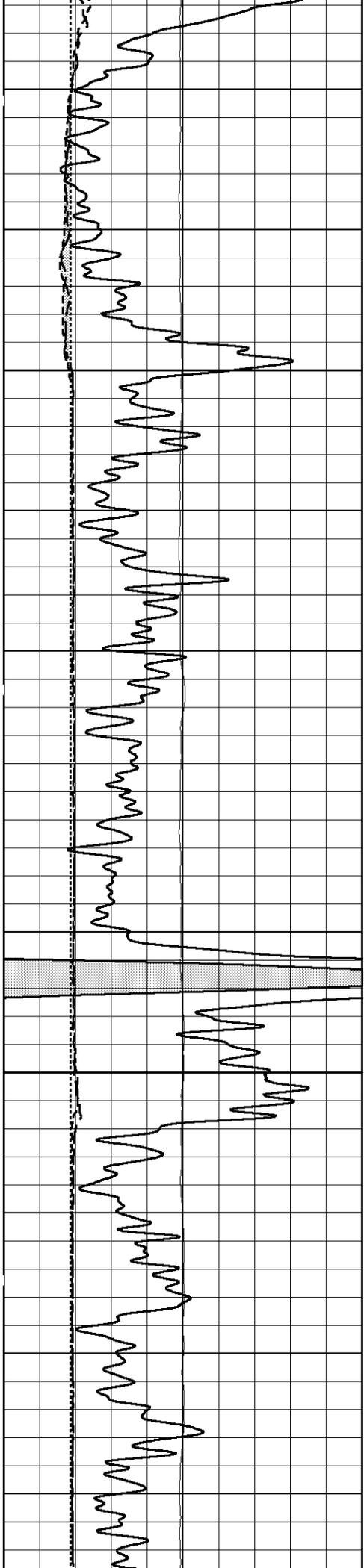




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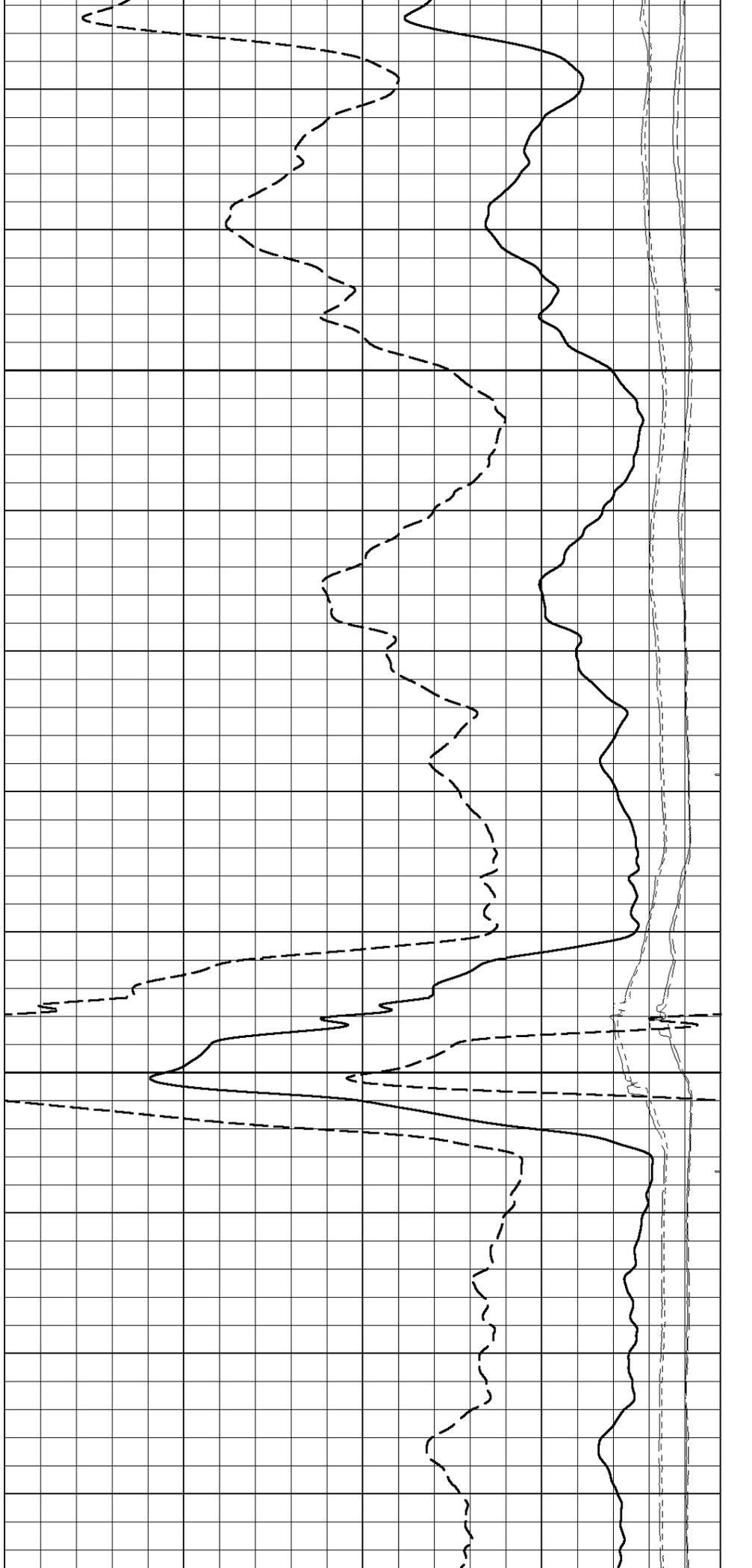
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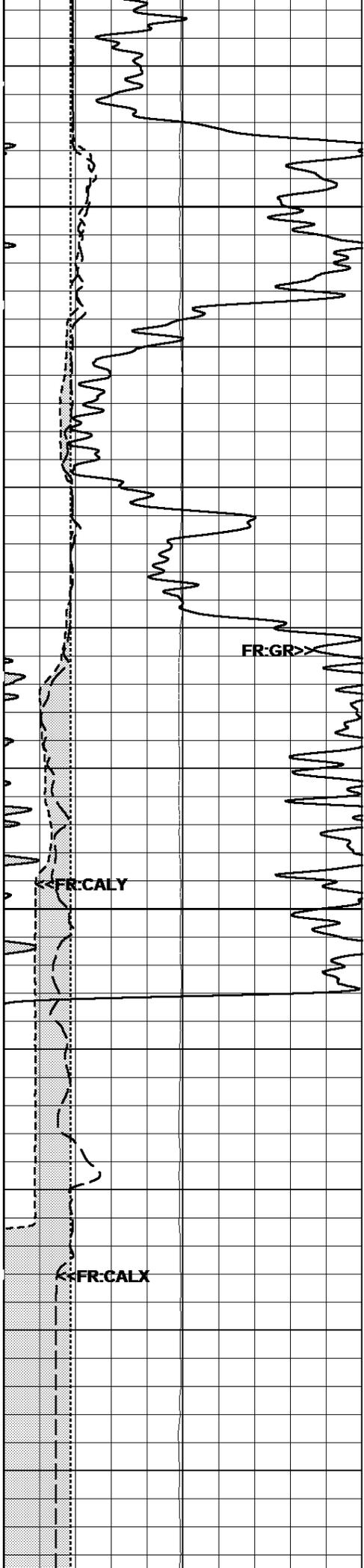




3125

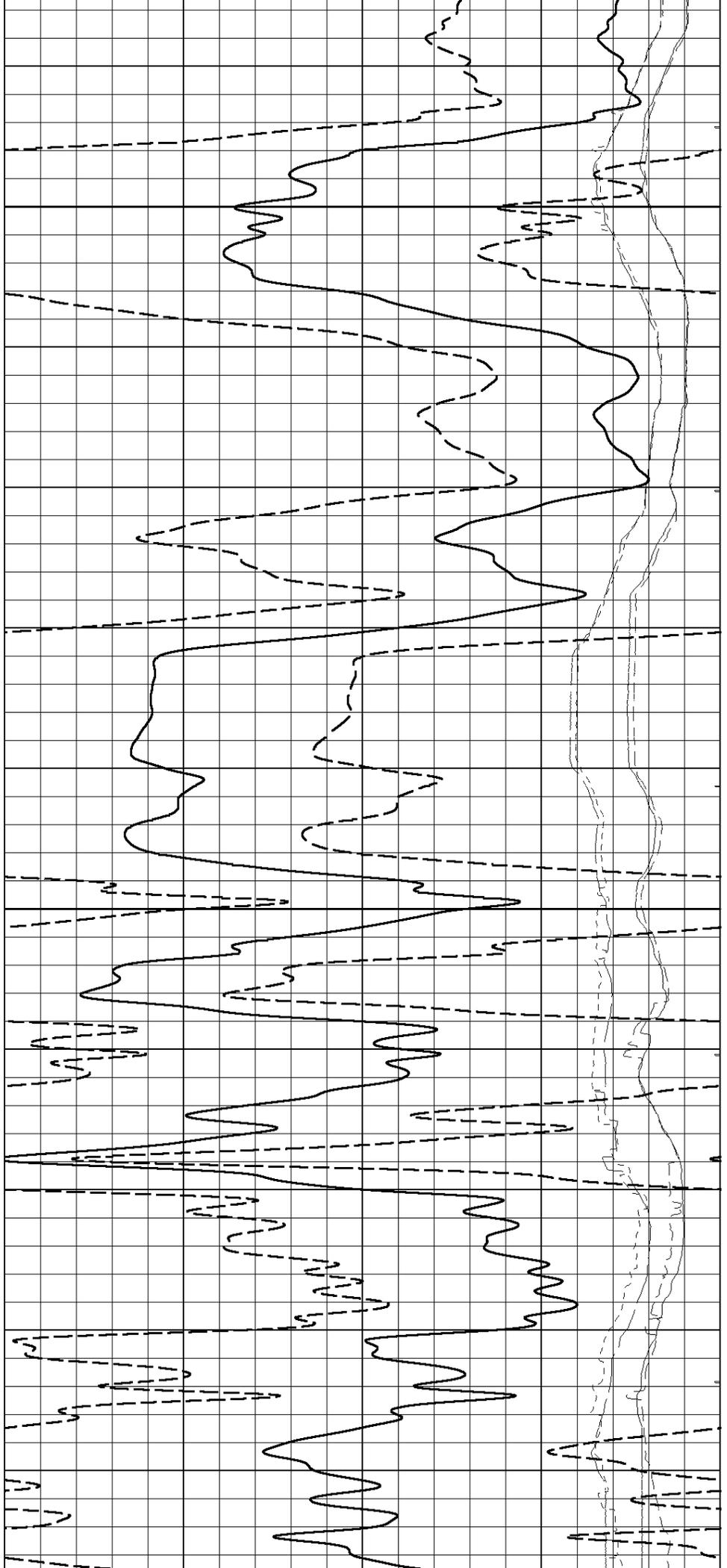
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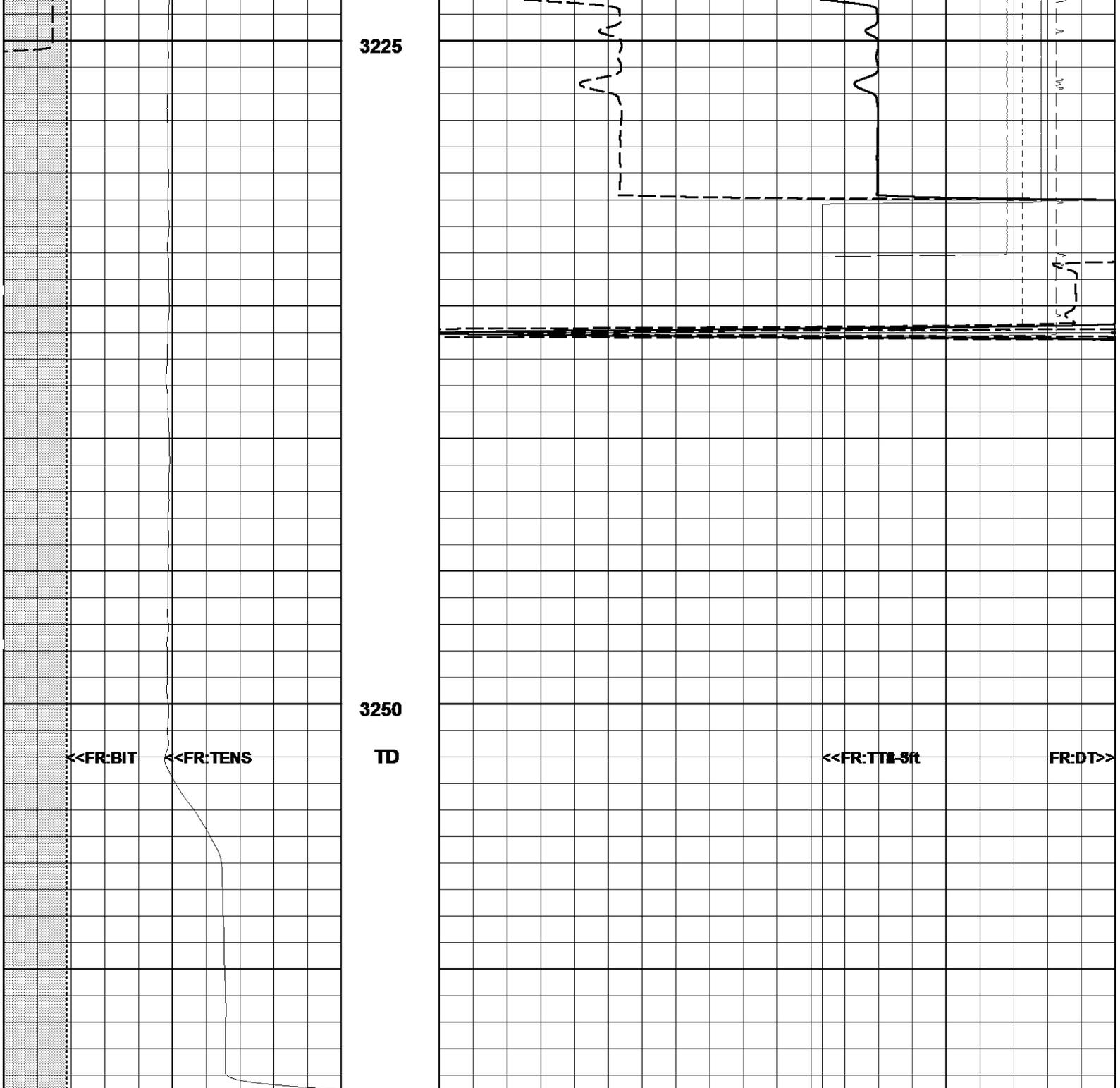




3175

3200





3225

3250

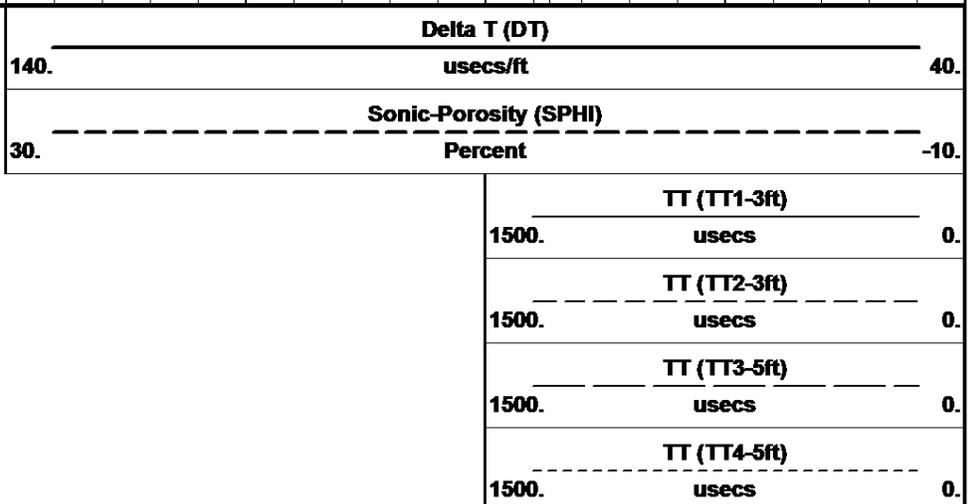
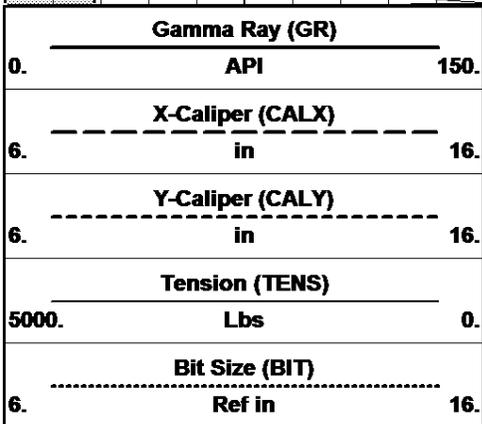
TD

<<FR:BIT

<<FR:TENS

<<FR:TT1-5ft

FR:DT>>



GAMMA RAY CALIBRATION

SERIAL NUM RG3007
BLANKET NUM 1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 175.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	31.235 - raw	207.385 - raw	0.993 - gain 0.000 - off	M/D/Y> 8/6/2015	H:M:S> 12:41:47

X CALIPER

SERIAL NUM RL4101

MASTER CALIBRATIONS

	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2657.837 - raw	4853.507 - raw	0.002 - gain 1.158 - off	M/D/Y> 8/8/2015	H:M:S> 12:7:34

Y CALIPER CALIBRATIONS

SERIAL NUM RN2016

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CalVal: 10.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	850.111 - raw	1578.062 - raw	0.005 - gain 1.329 - off	M/D/Y> 8/6/2015	H:M:S> 13:25:17

Company	CMX, INC.
Well	BUSHTON #2-36
Field	HEIKEN
County	ELLSWORTH
State	KANSAS



**BHC SONIC
 GAMMA RAY
 X-Y CALIPER**