

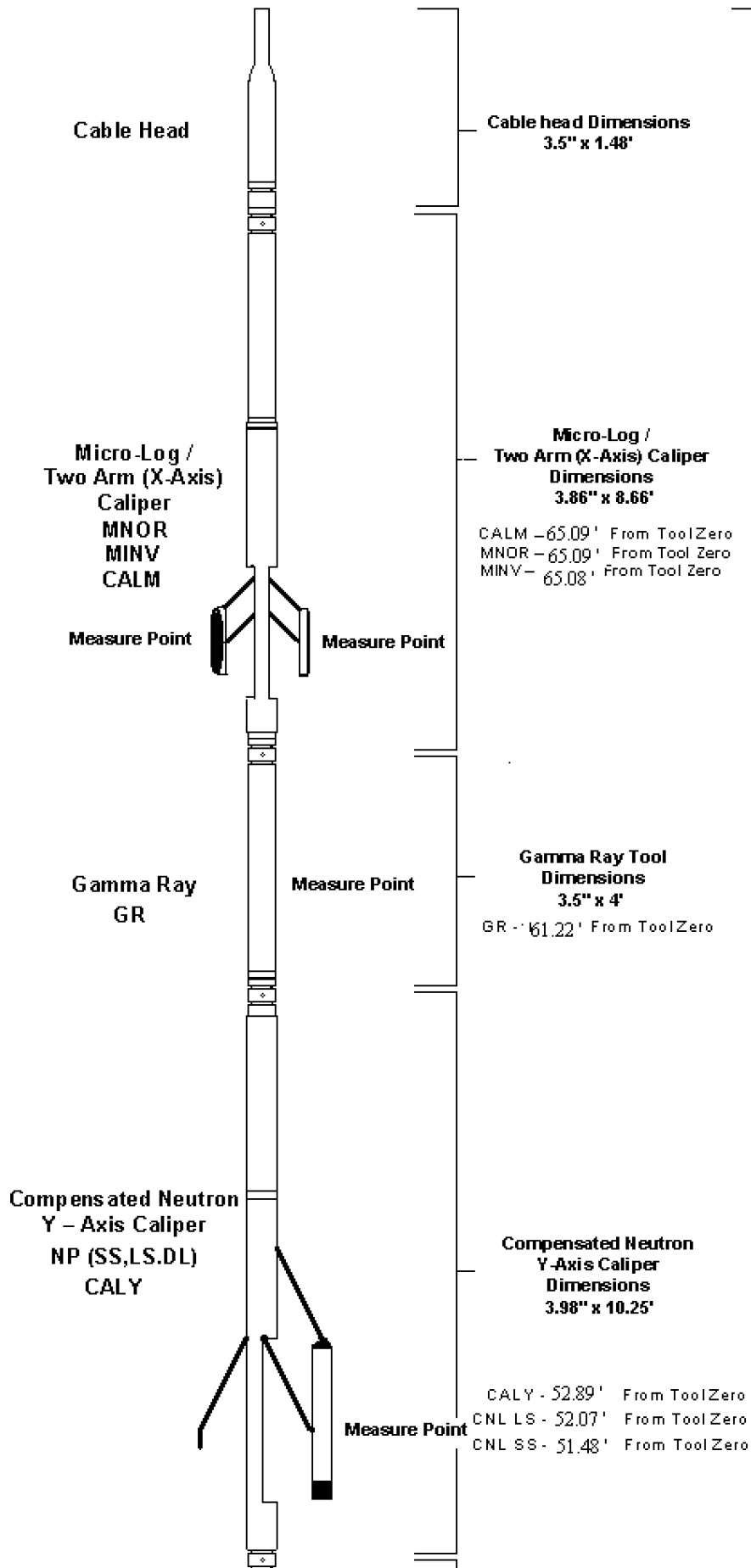
Company				K3 OIL & GAS OPERATING COMPANY			
Well				EATON #3-18			
Field				WILDCAT			
County				LANE			
State				KANSAS			
RECON BHC SONIC GAMMA RAY X-Y CALIPER							
SEC		TWP		RGE		OTHER SERVICES:	
18		16S		28W		DDT CNL	
Location, 879' FNL & 1966' FWL				NE/SW/NE/NW			
SURE: SAME		AP#:		015-101-22560-00-00			
Permanent Datum		Ground Level		Elev		ELEVATIONS	
Log Measured From		Kelly Bushing				K.B. 2657 G.L. 2649 D.F. N/A	
Drilling Measured From		Kelly Bushing					
Date	07-AUG-2015						
Run No.	ONE						
TD Driller	4540			ft			ft
TD RECON	4540			ft			ft
Bot Logged Interval	4539			ft			2100 ft
Top Logged Interval	3500			ft			2000 ft
Casing Depth Driller	8 5/8			in.			in.
Casing Depth RECON	8 5/8			in.			in.
Bit Size	7 7/8			in.			in.
Drilling Fluid Type	WBM						
Density	Viscosity			49			
Fluid Loss	PH			9.6			8.0
Source Of Sample	Flowline						
RM @ Measured Temp	3.37			Ohmm			@ 75 Ohmm @
RMF @ Measured Temp	2.53			Ohmm			@ 75 Ohmm @
RMC @ Measured Temp	3.01			Ohmm			@ 75 Ohmm @
RM @ MRT	1.91			Ohmm			@ 131 Ohmm @
Max Recorded Temp	131			DegF			DegF
Time Drilling Stopped	07-AUG-2015			02:00			
Time Circulation Stopped	07-AUG-2015			04:45			
Time Logger On Bottom	07-AUG-2015			17:17			
Unit Num	Location			S406			OKLAHOMA CITY, OK
Recorded By	K.HELDERMON						
Witnessed By	T.WILLIAMS						

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 Neglegence 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 #4

GENERAL REMARKS SECTION	
FIRST RUN IN THE HOLE CNL AND LDT LOGGED IN A LIMESTONE MATRIX TOP MARK - 283, BOTTOM MARK - 4387.5 CNL/LDT LOGGED MATRIX: 2.71 g/cc. CHLORIDES: 3800 LCM: TRACE THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.	AHV CALCULATED ON 5.5" PROD. CASING MICROLOG PAD APPEARS TO HAVE RIPPED AT ABOUT 4225' ON HDD REPEAT (FIRST PASS). BRIEFLY LOST COMMS AT ABOUT 1630' (FLAT SPOTS) CREW: M.CALLENINE

**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'**

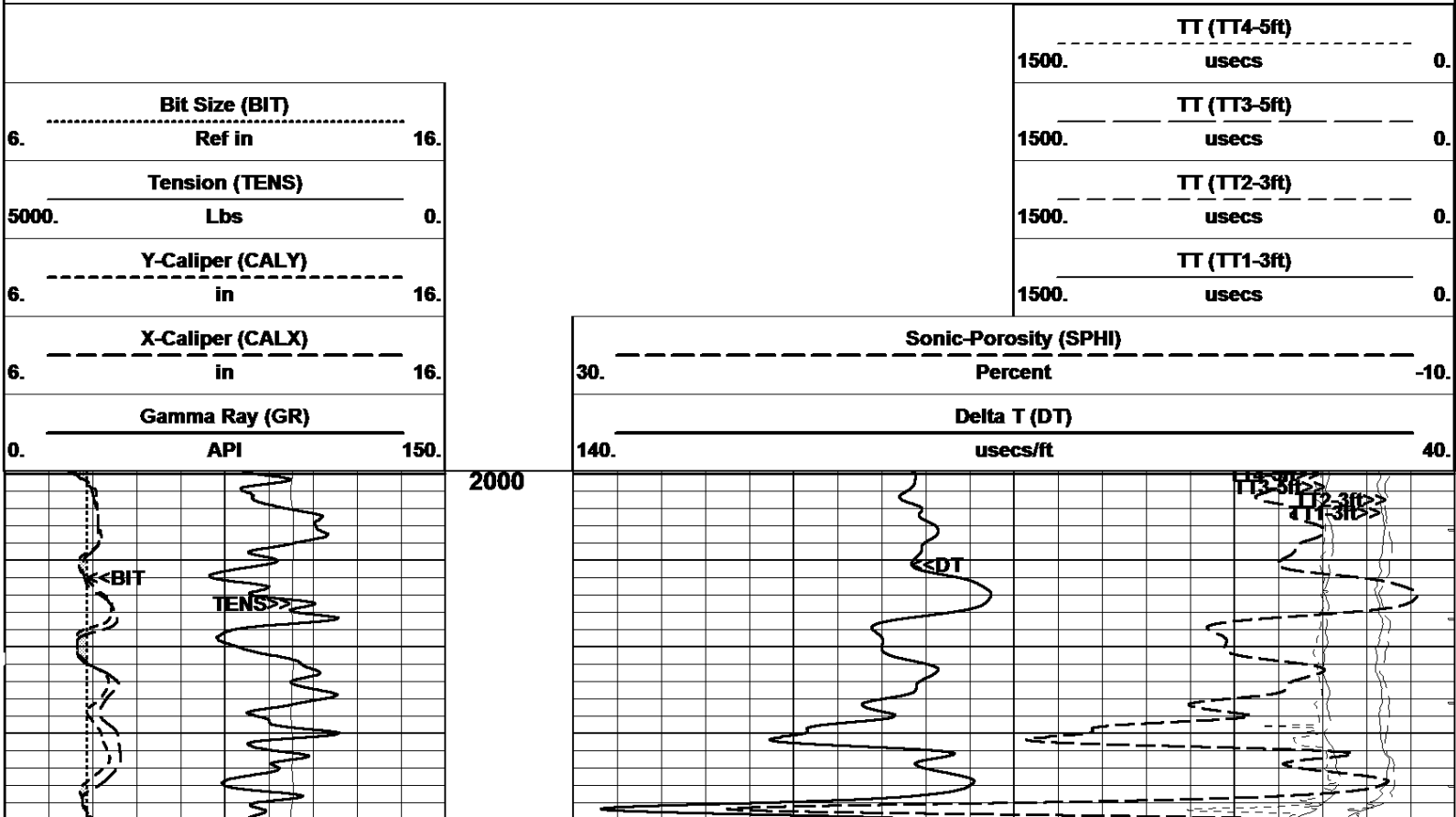
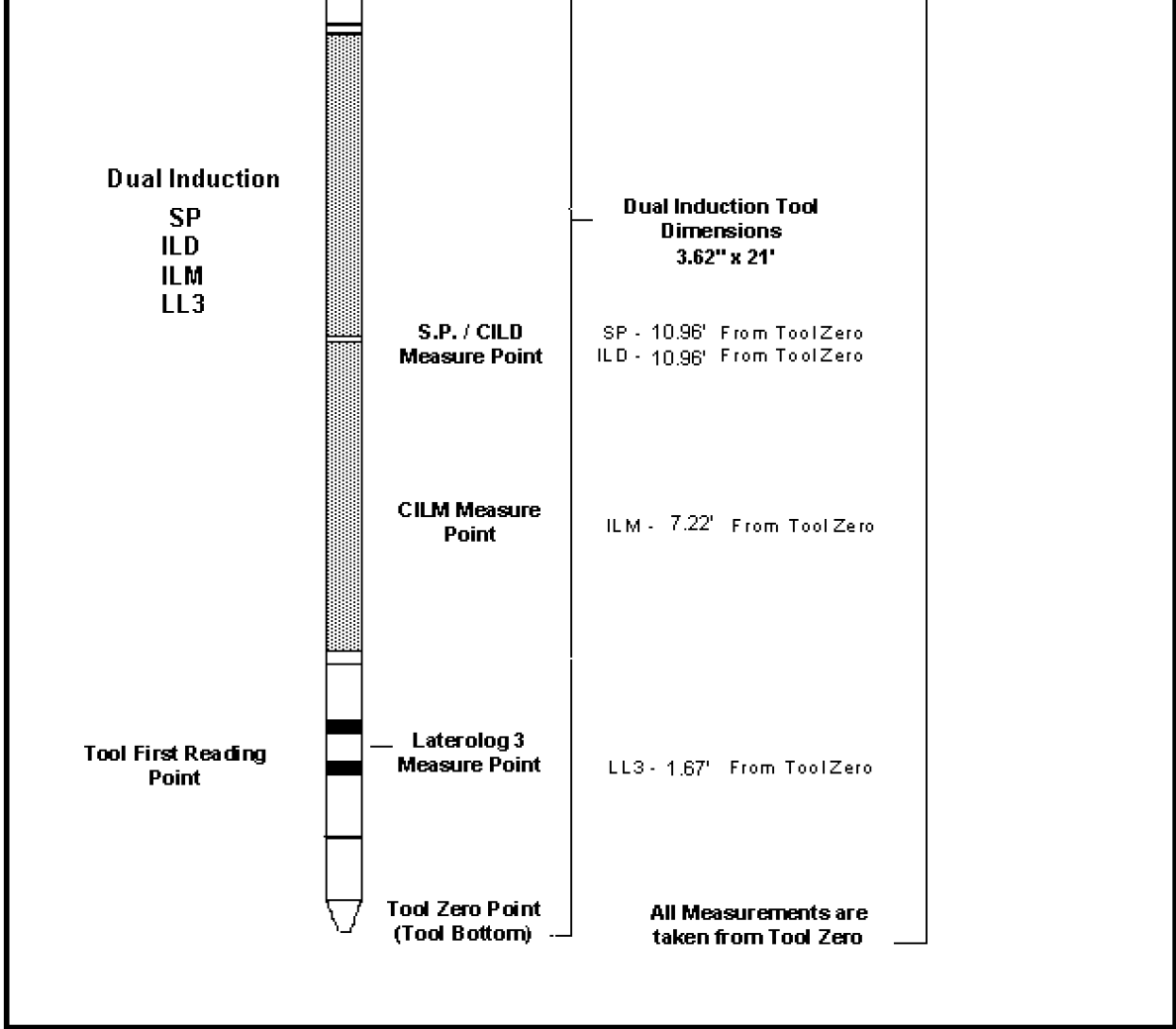
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

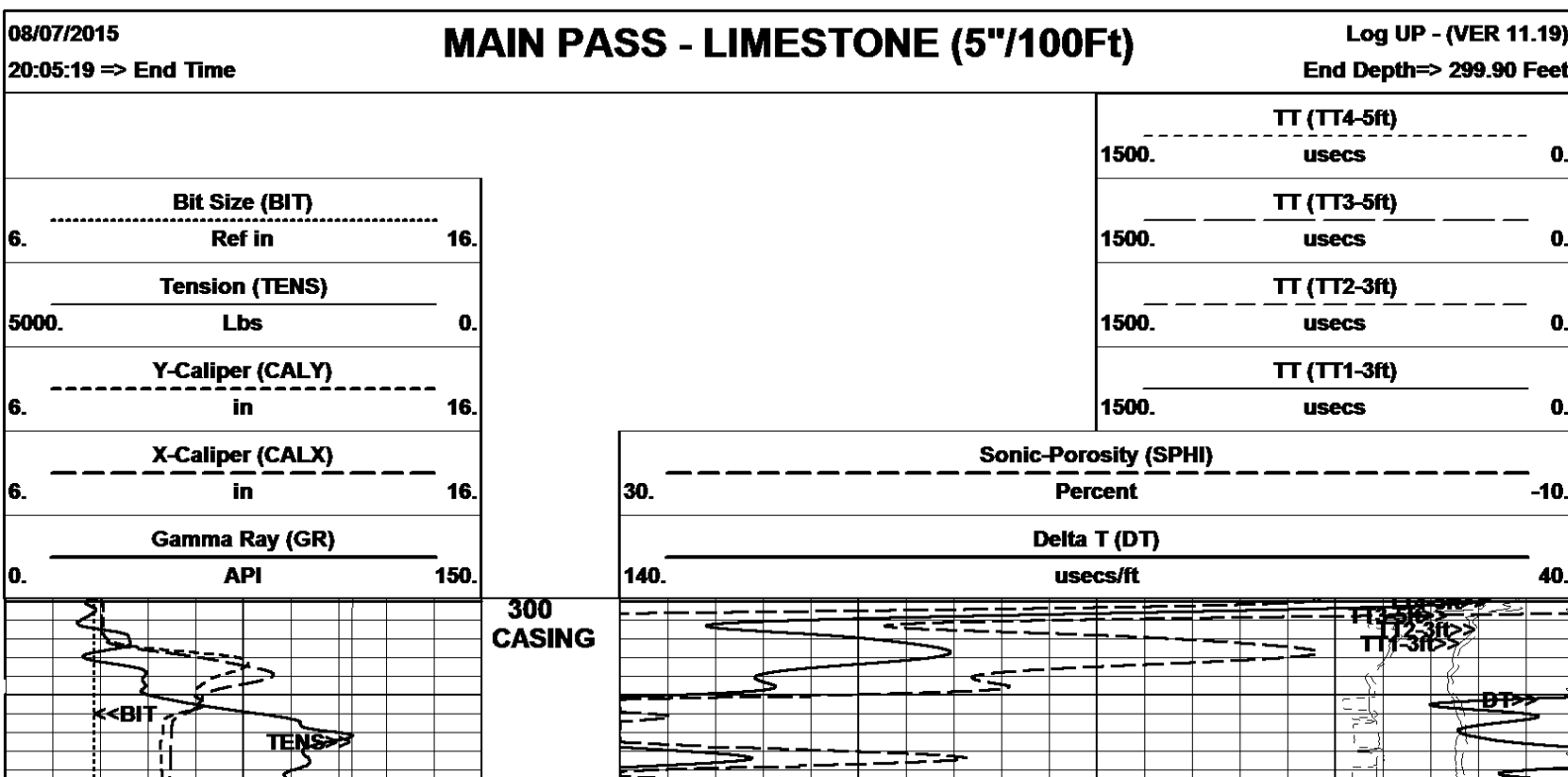
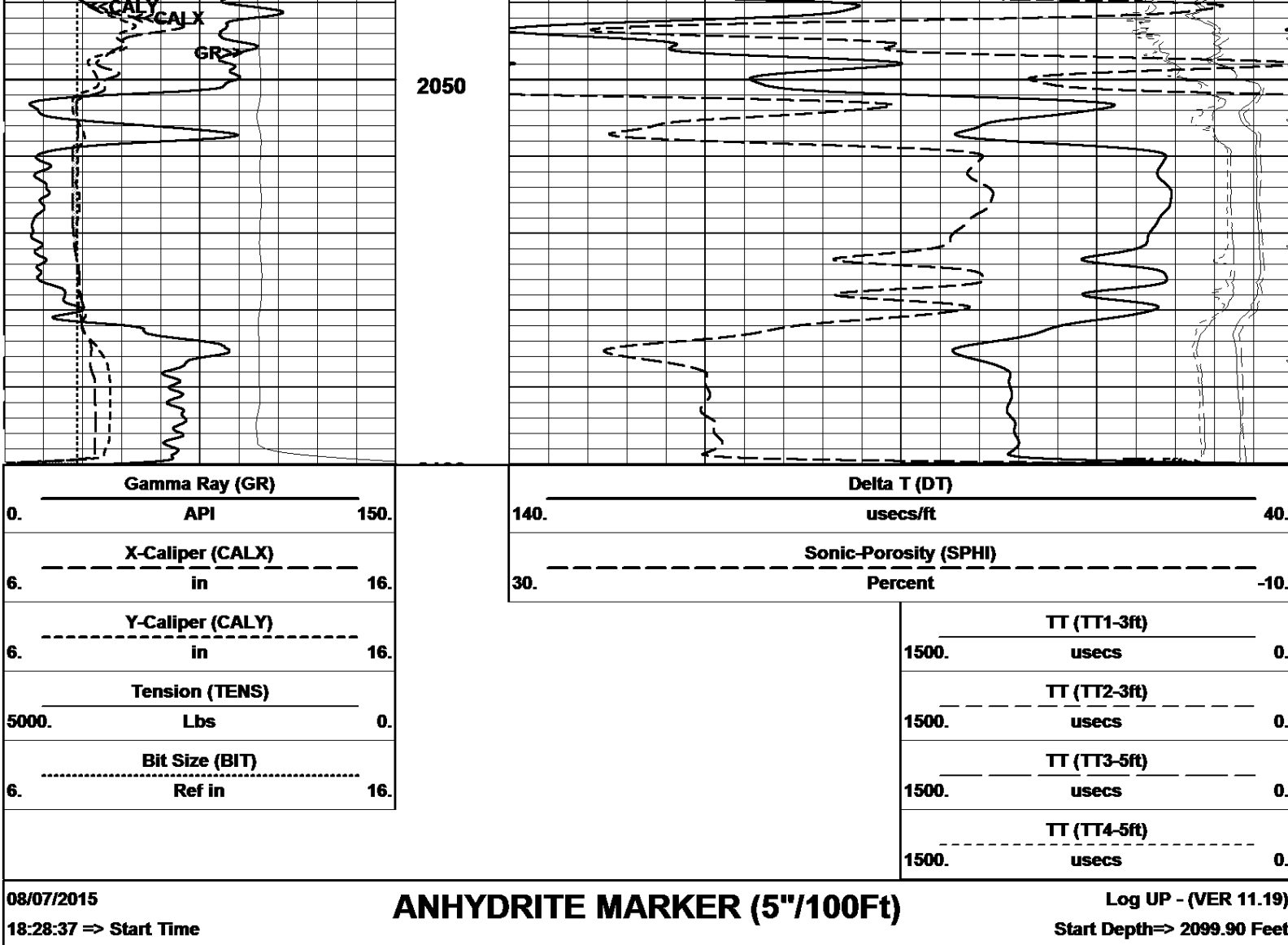
R-1
Receiver 1

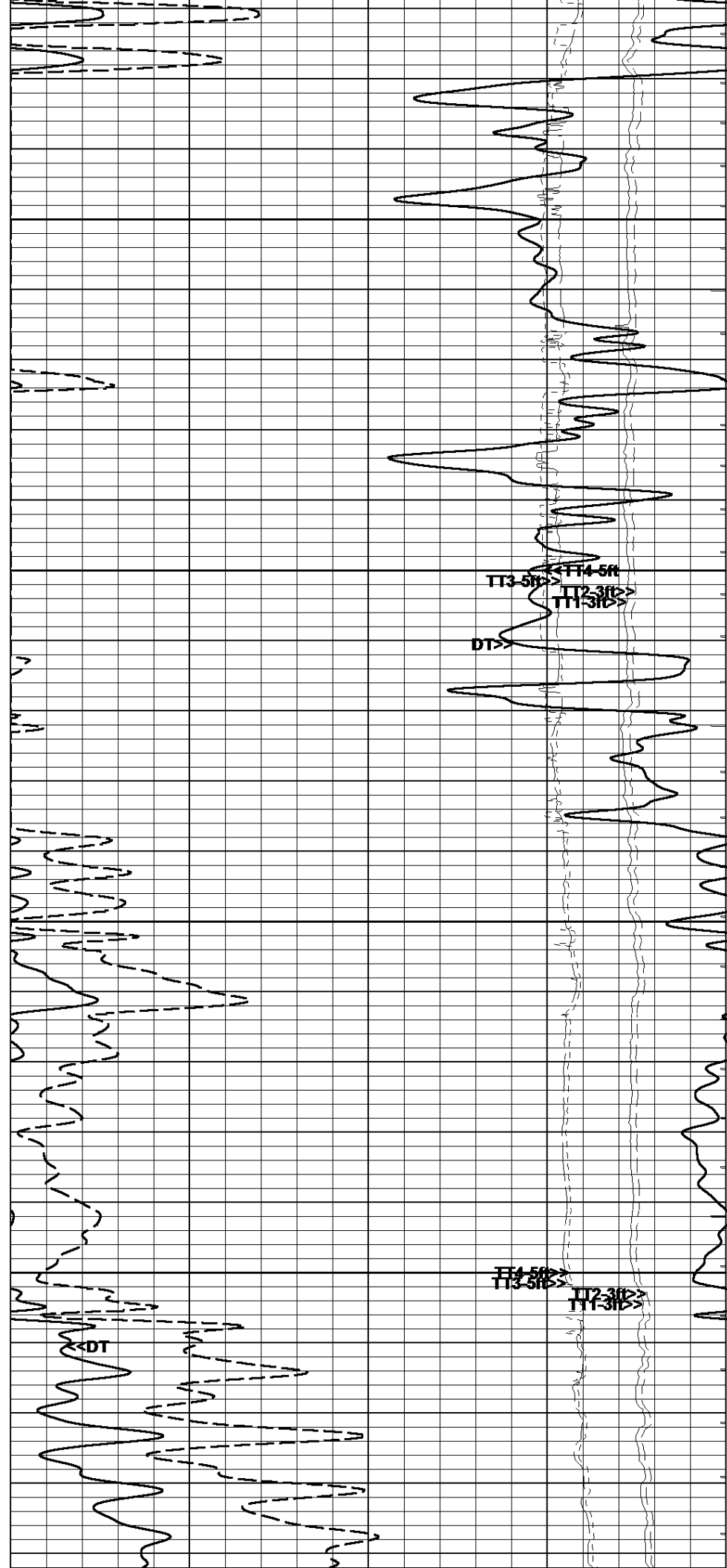
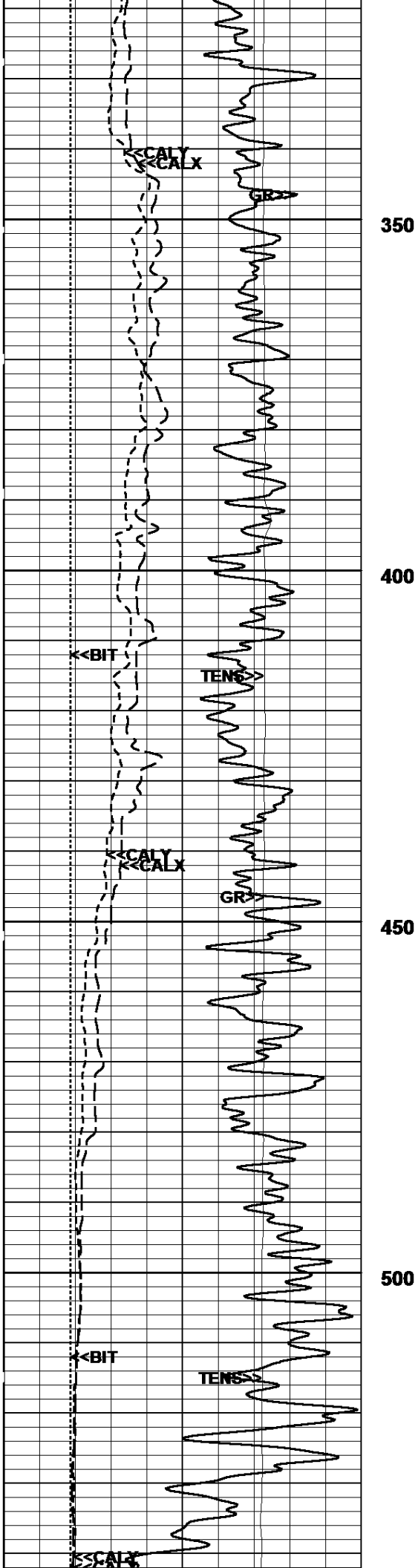
R-2
Receiver 2

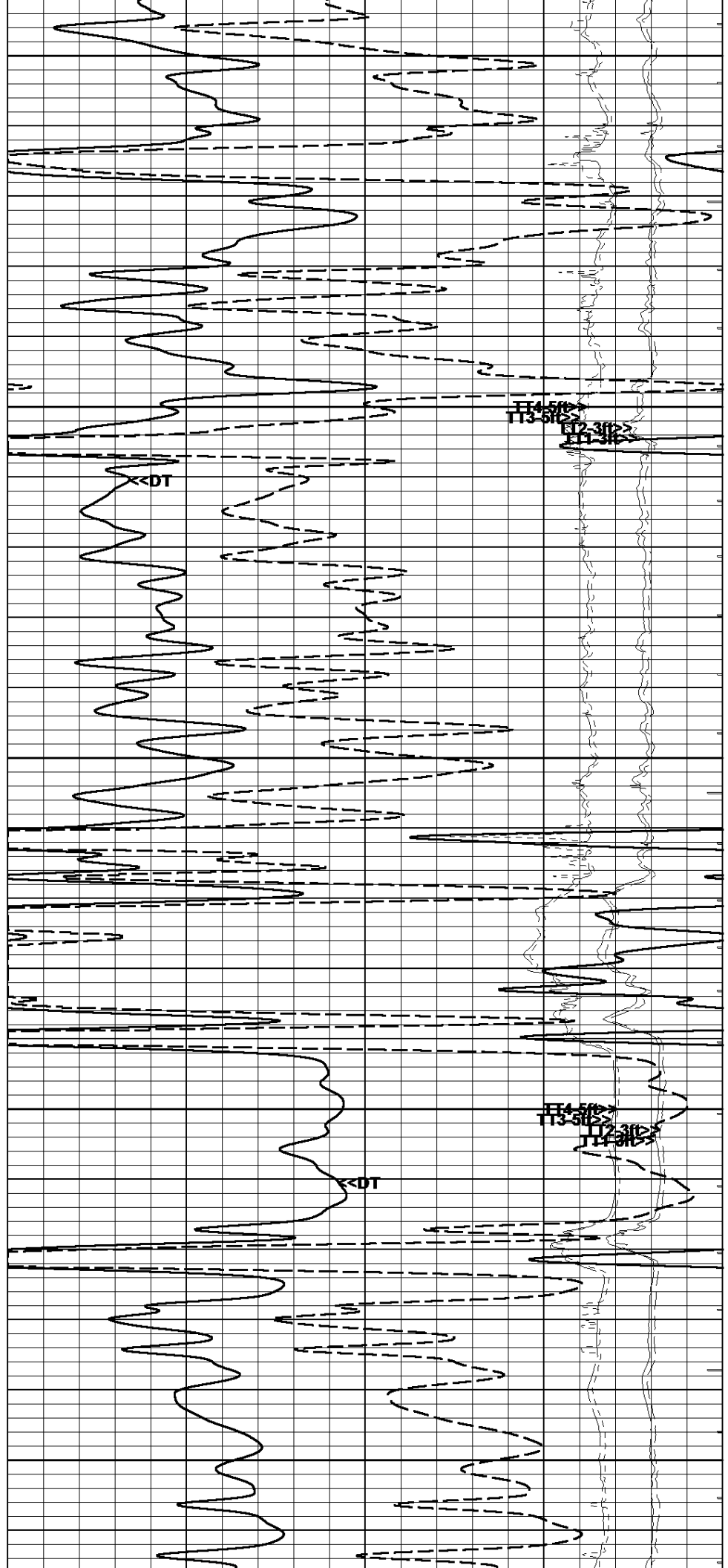
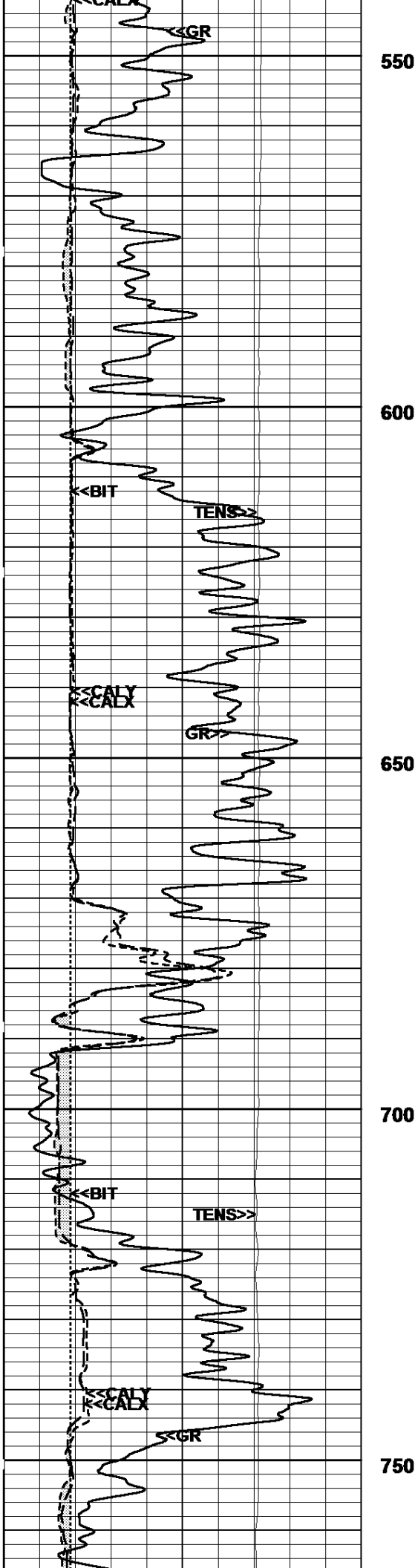
T2R1 - 28.54' From ToolZero
T2R2 - 28.37' From ToolZero

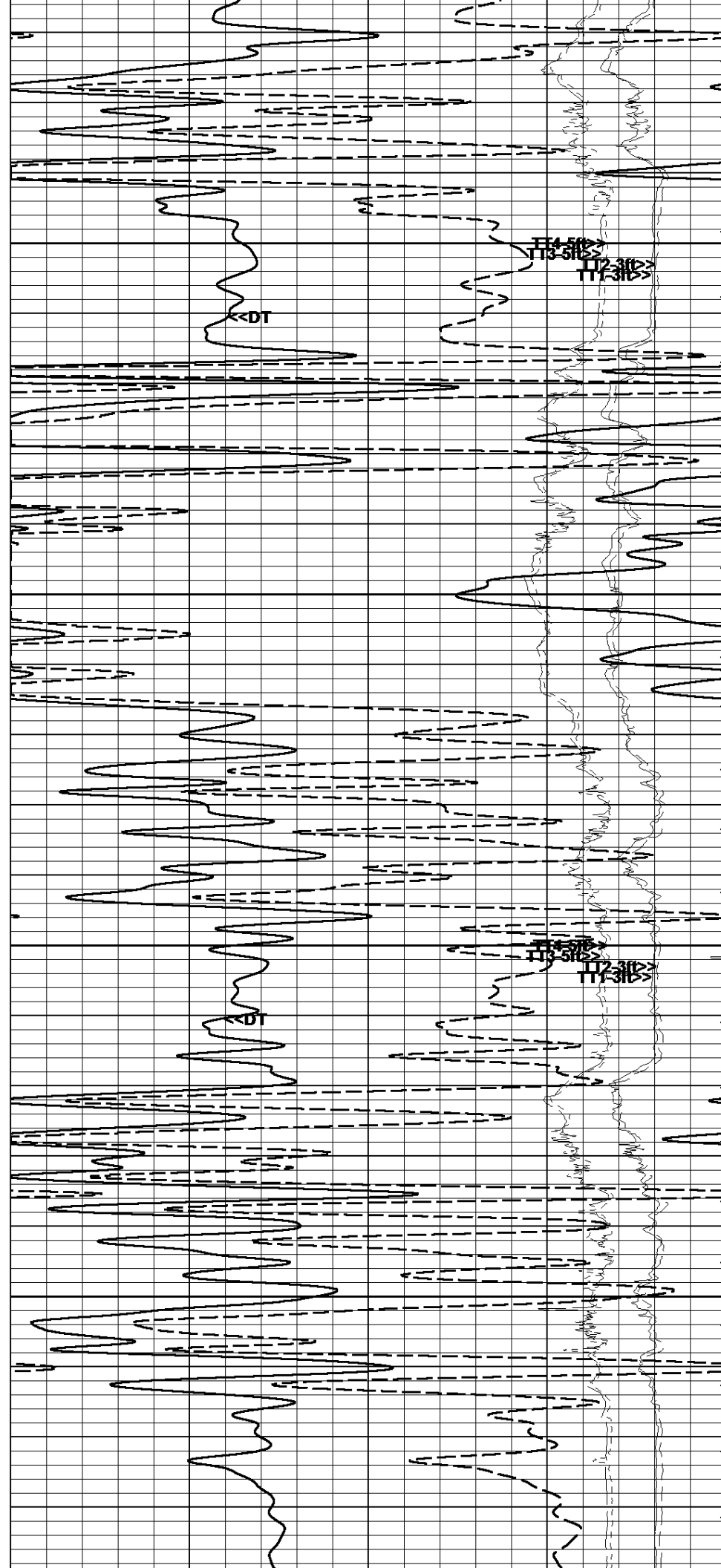
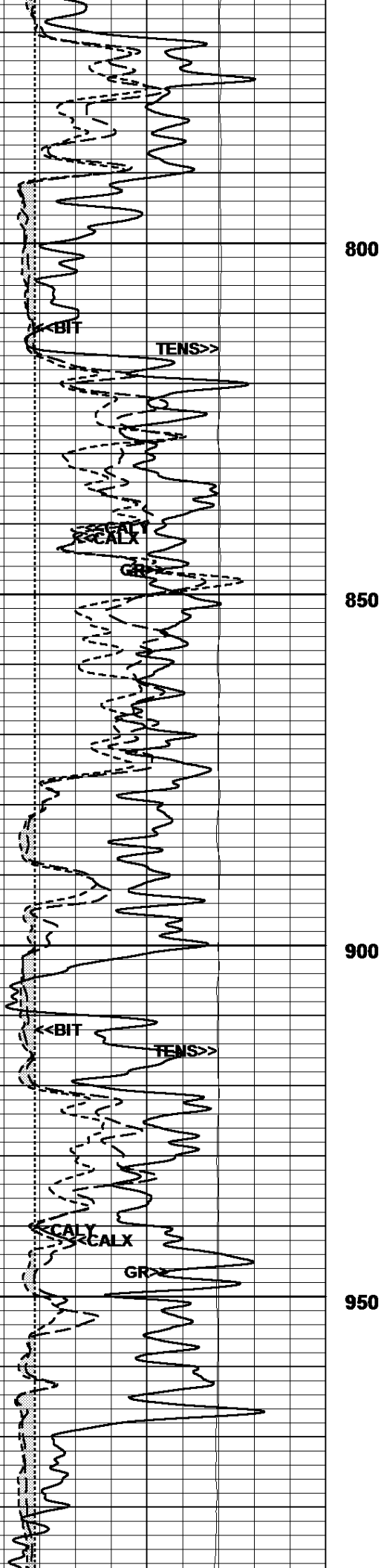
T-2
Transmitter 2

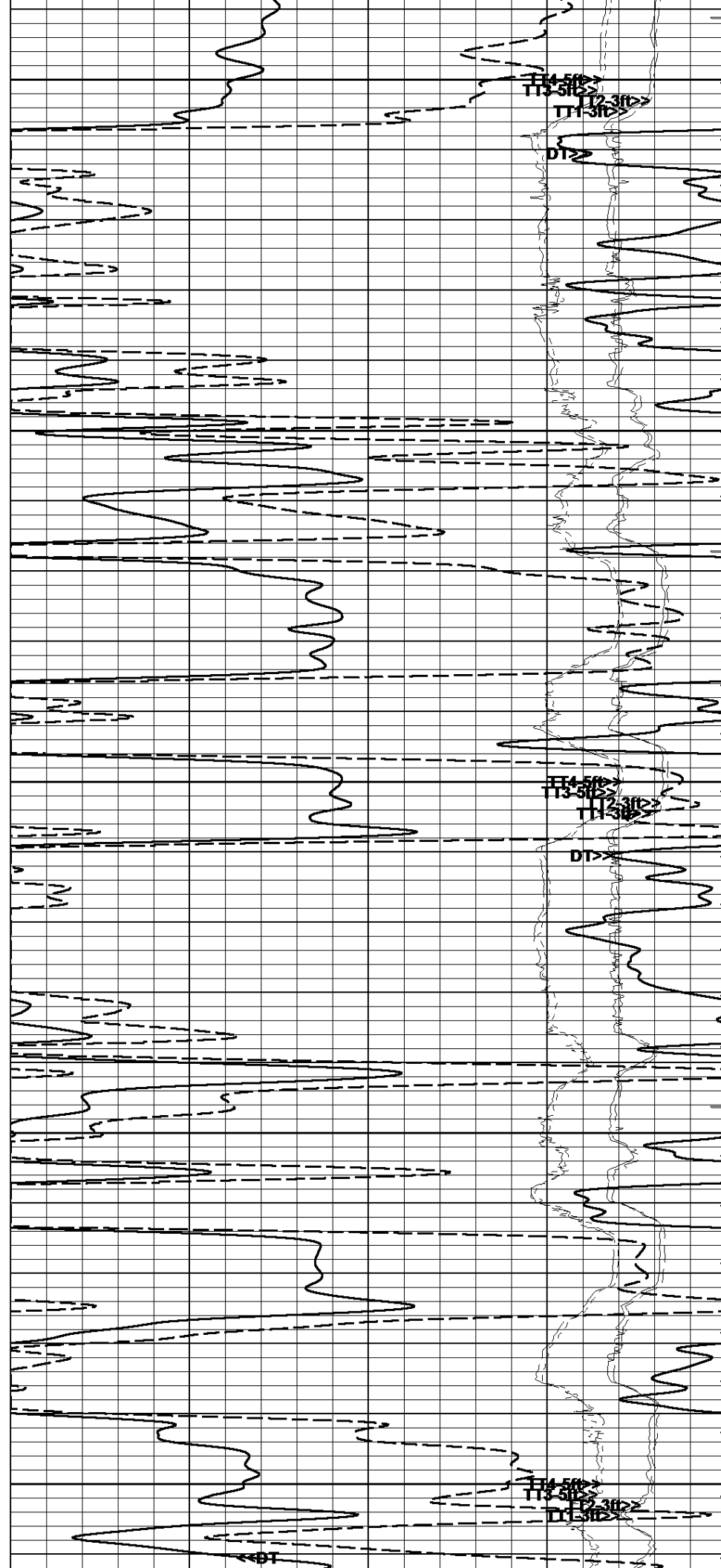
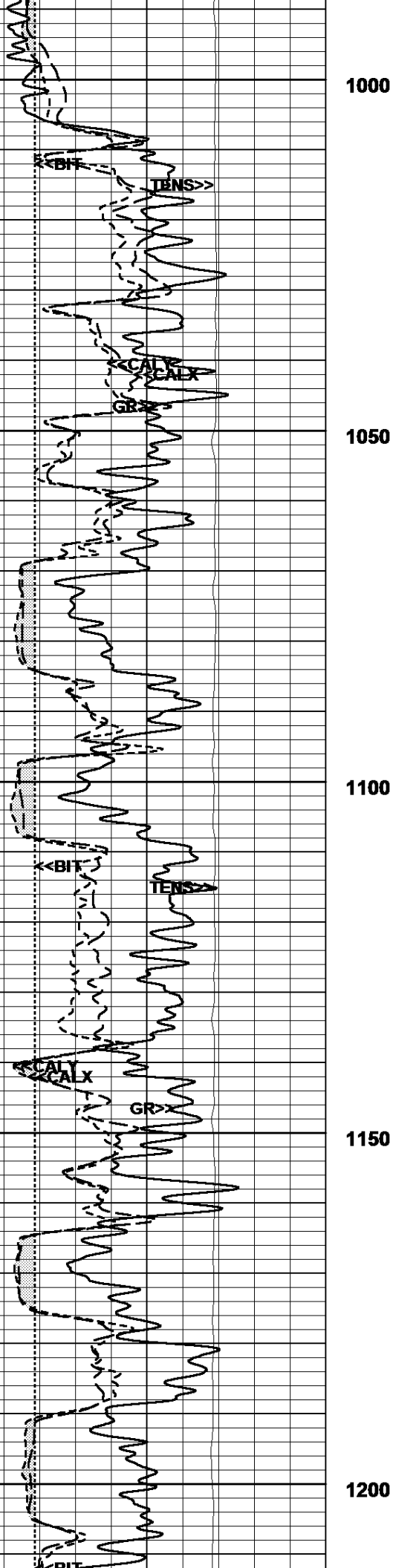


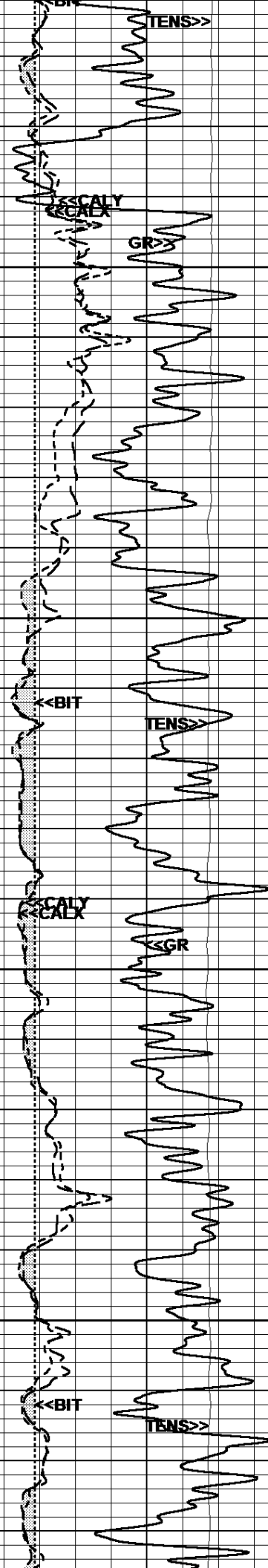










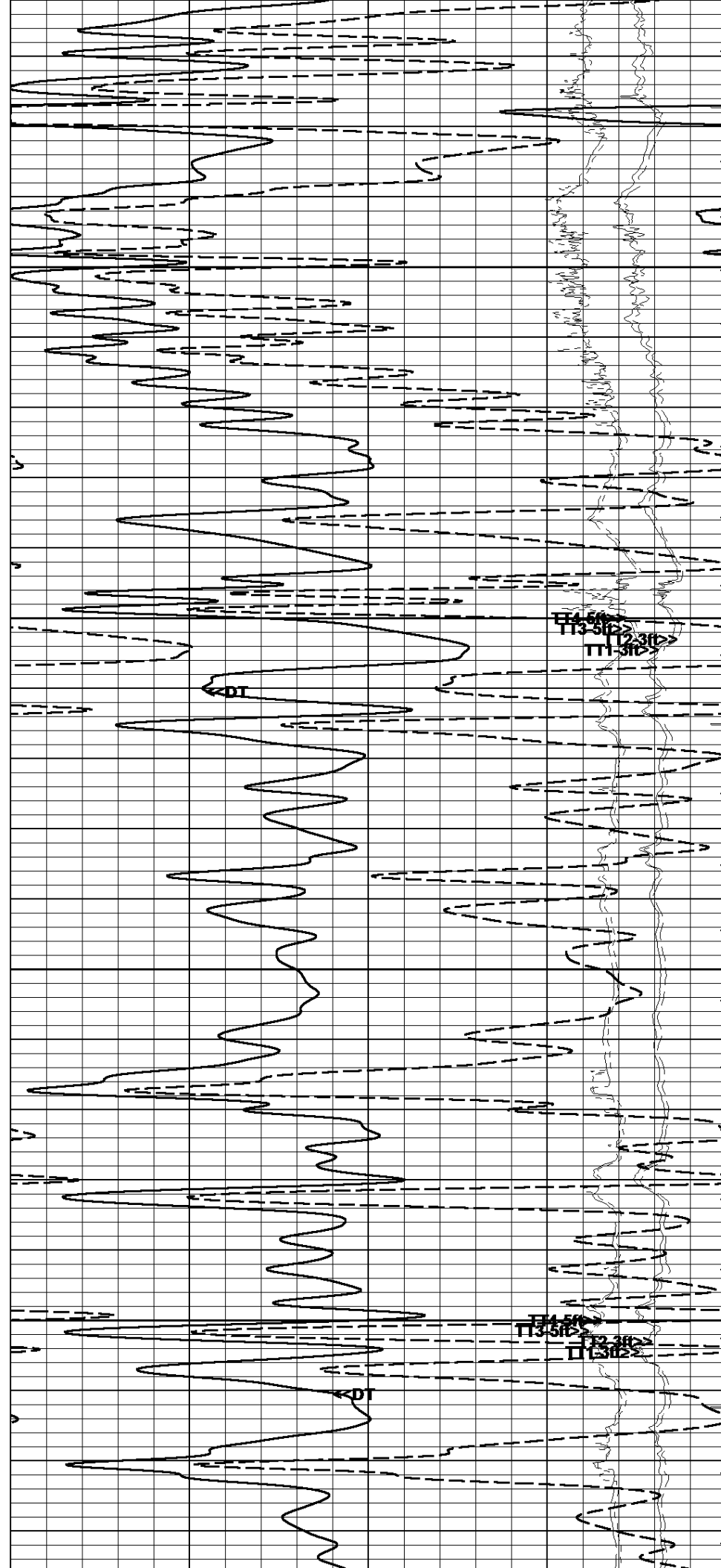


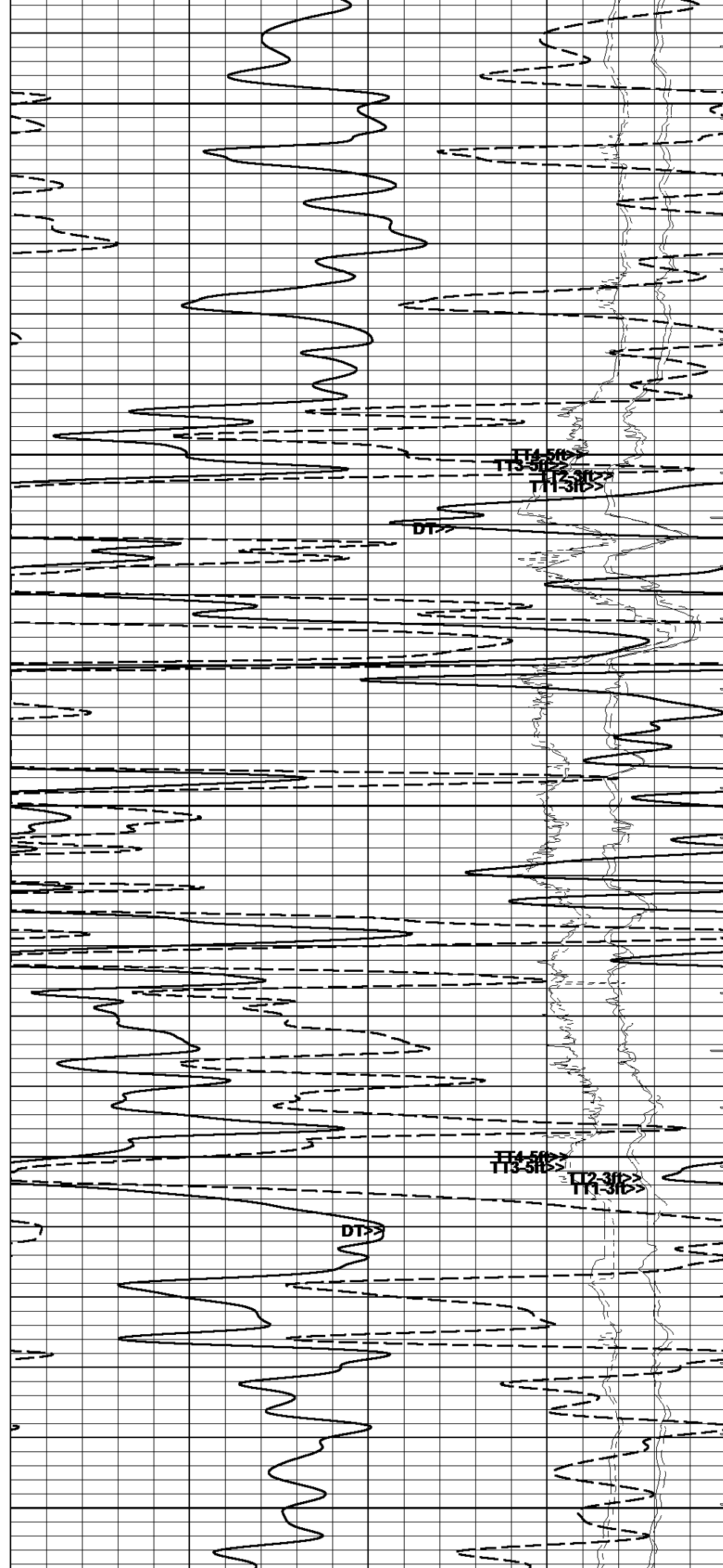
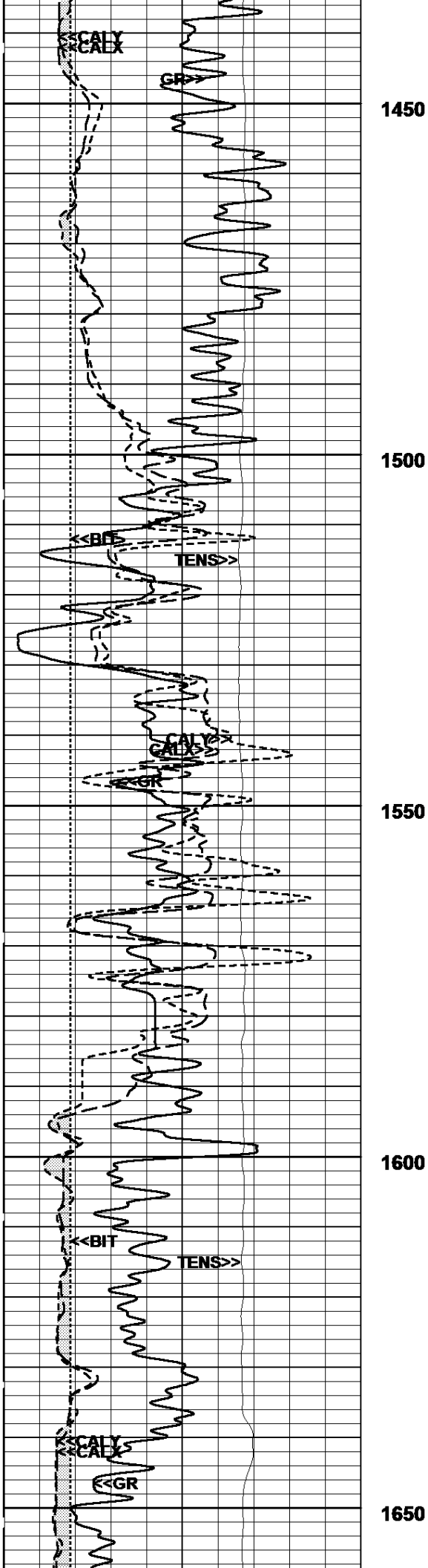
1250

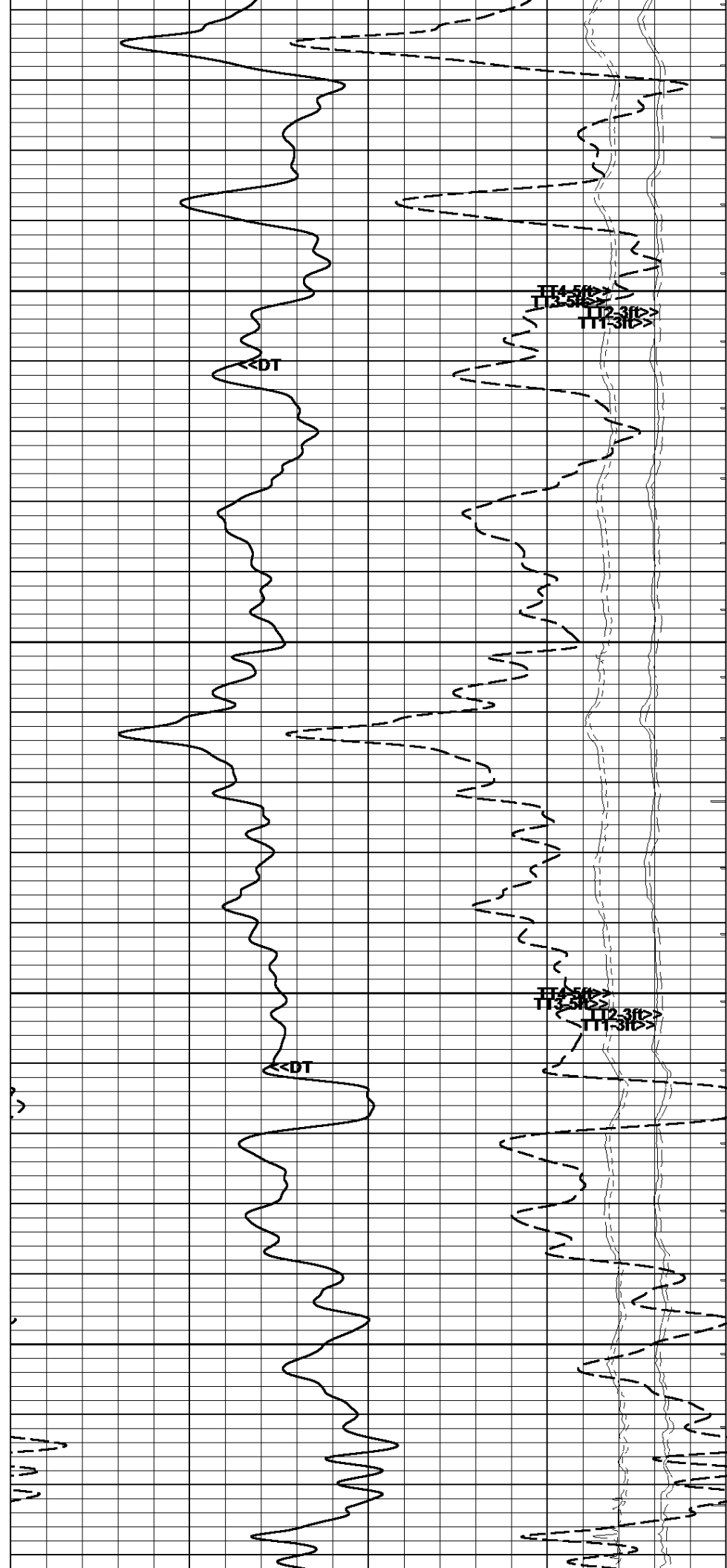
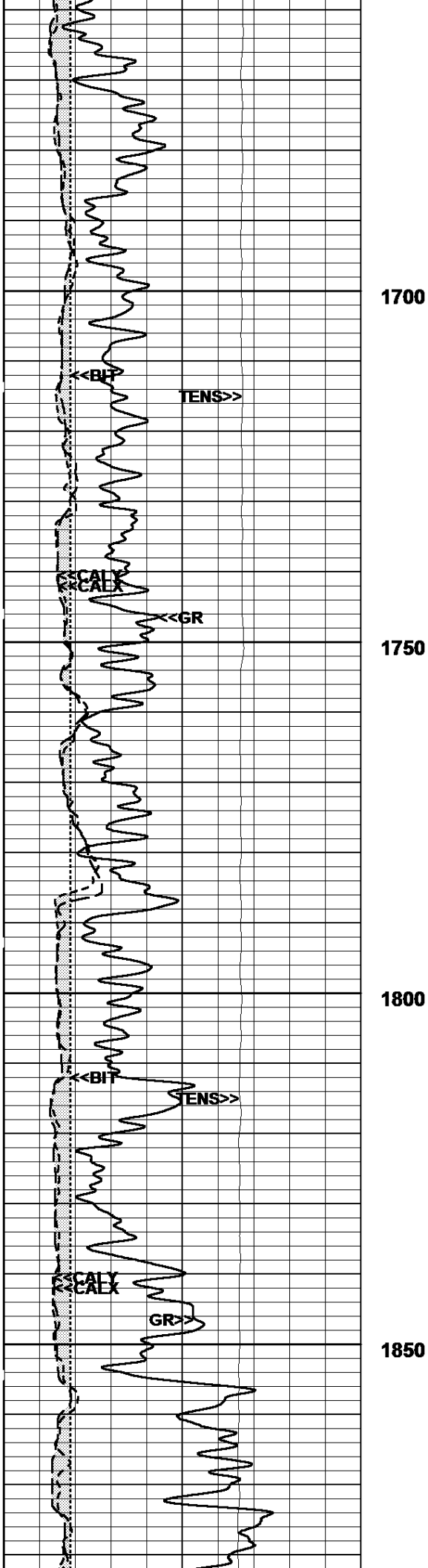
1300

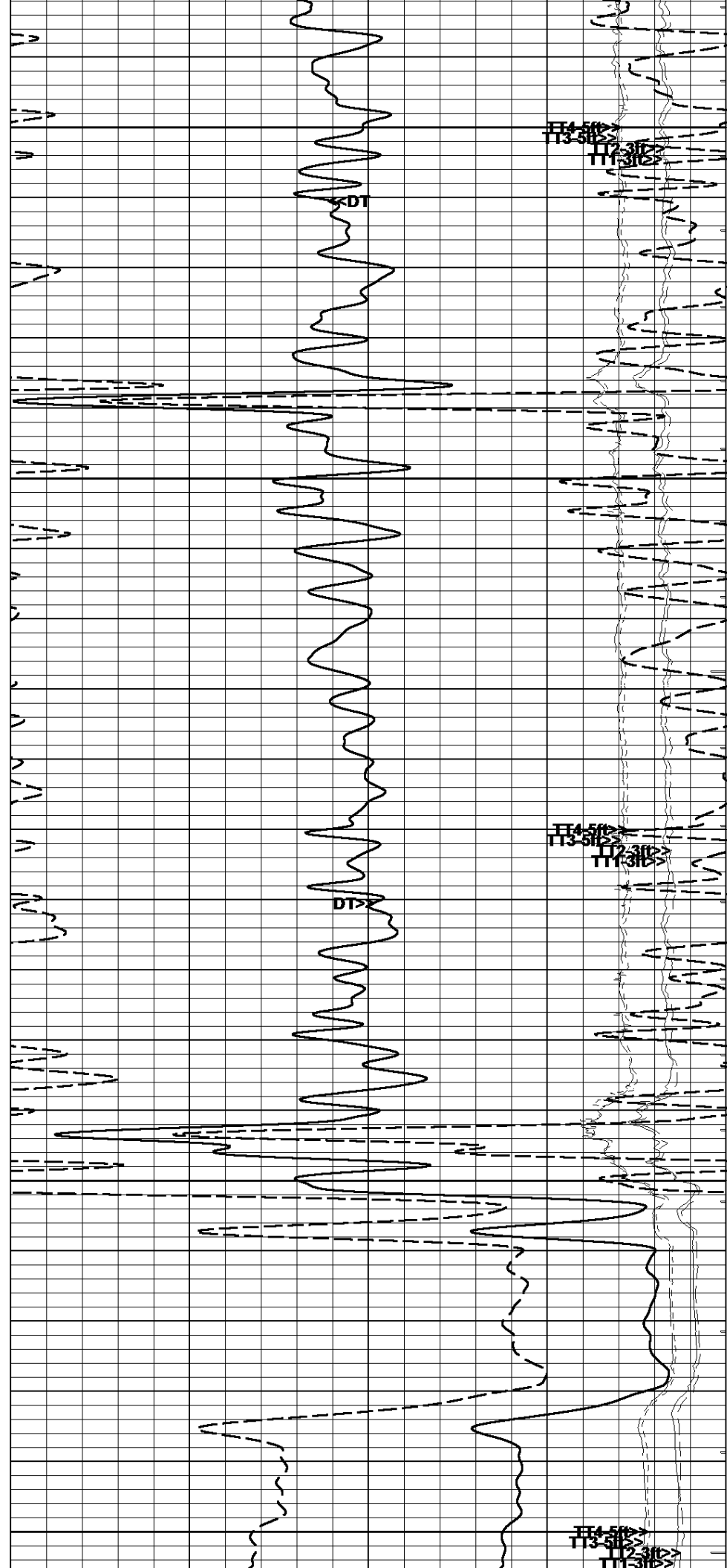
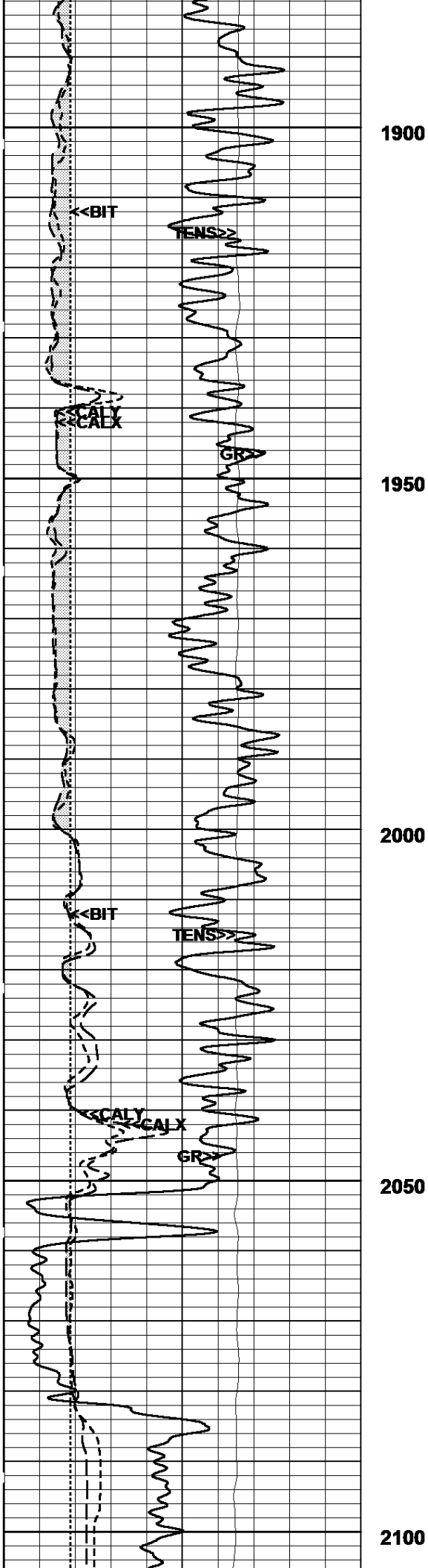
1350

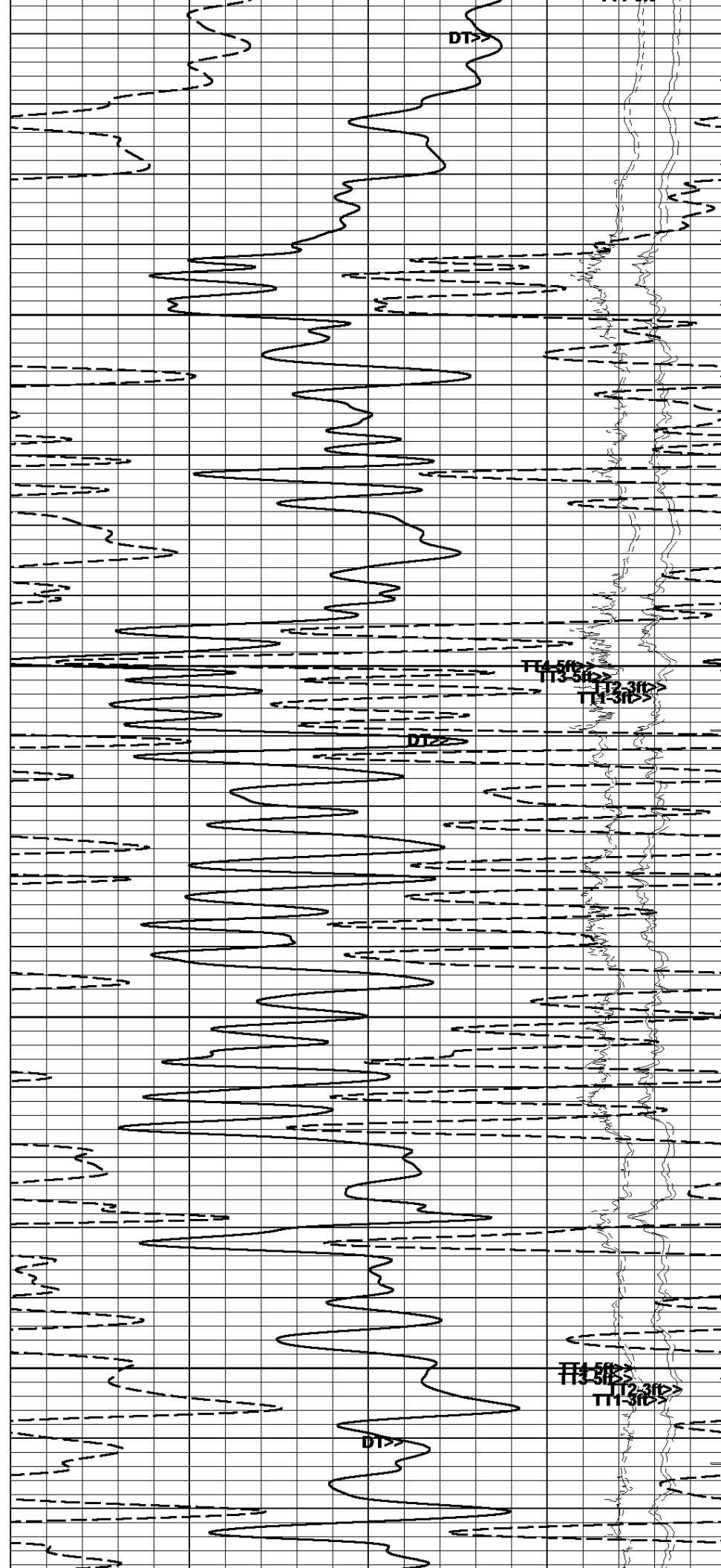
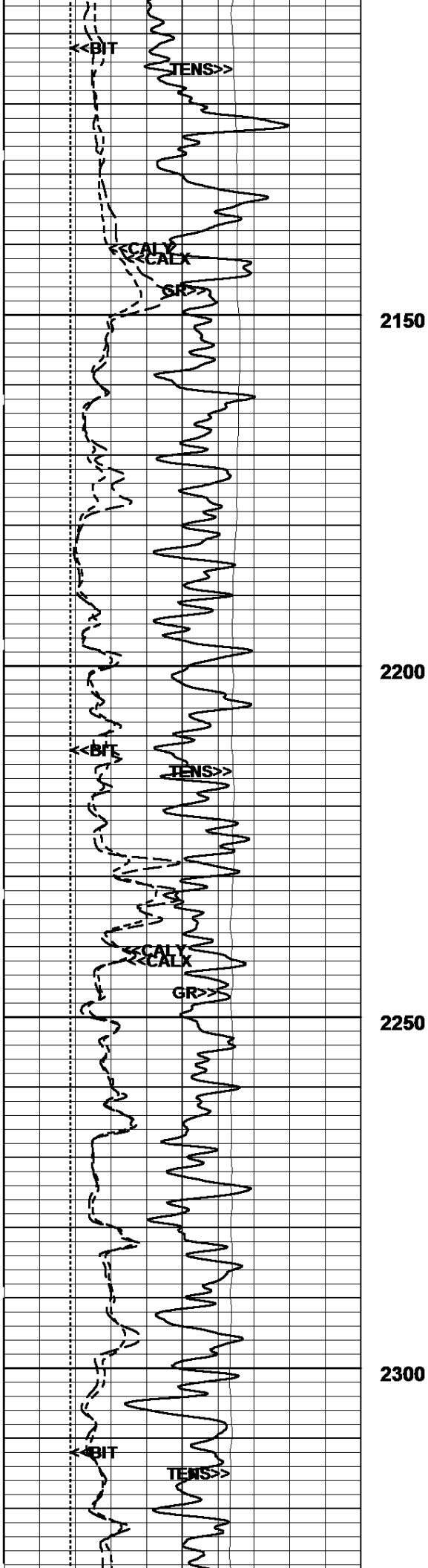
1400

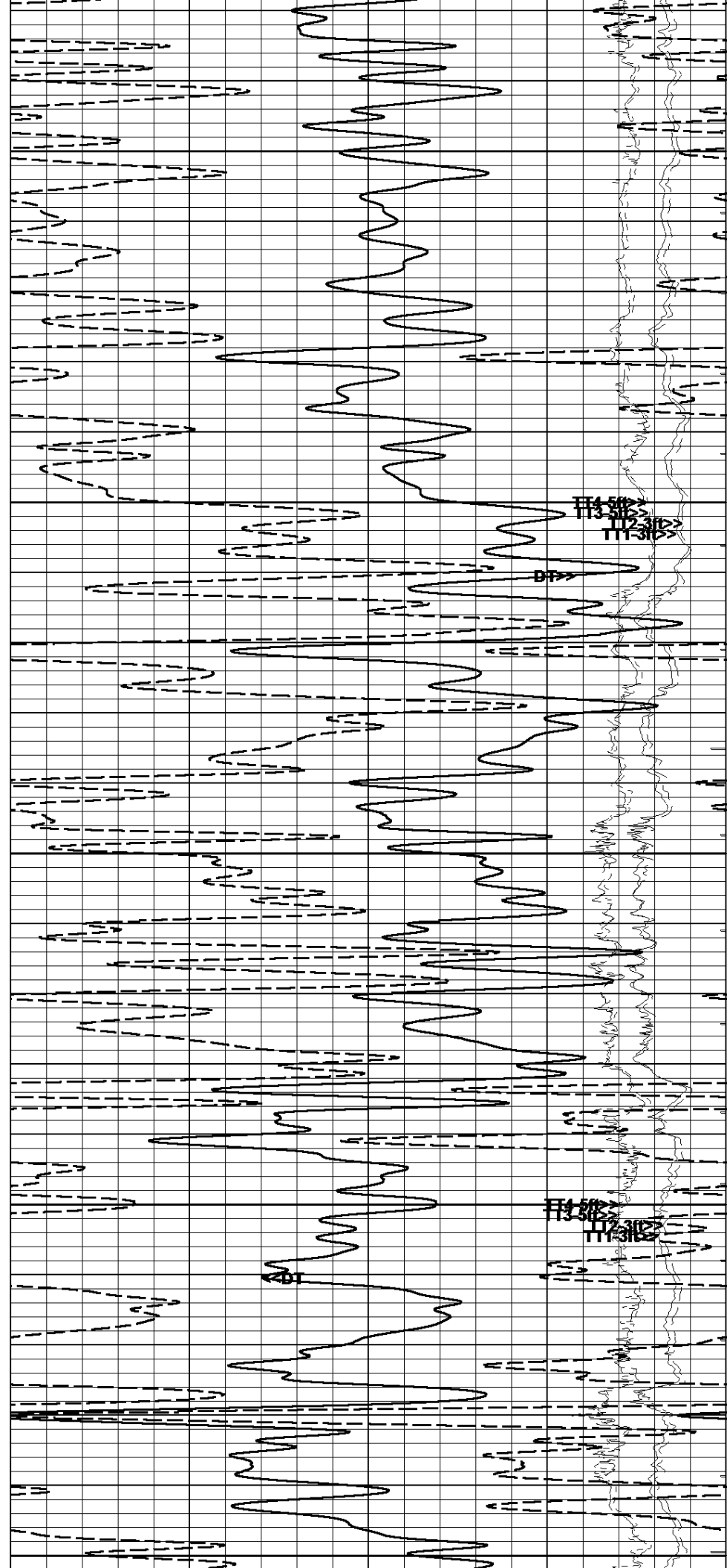
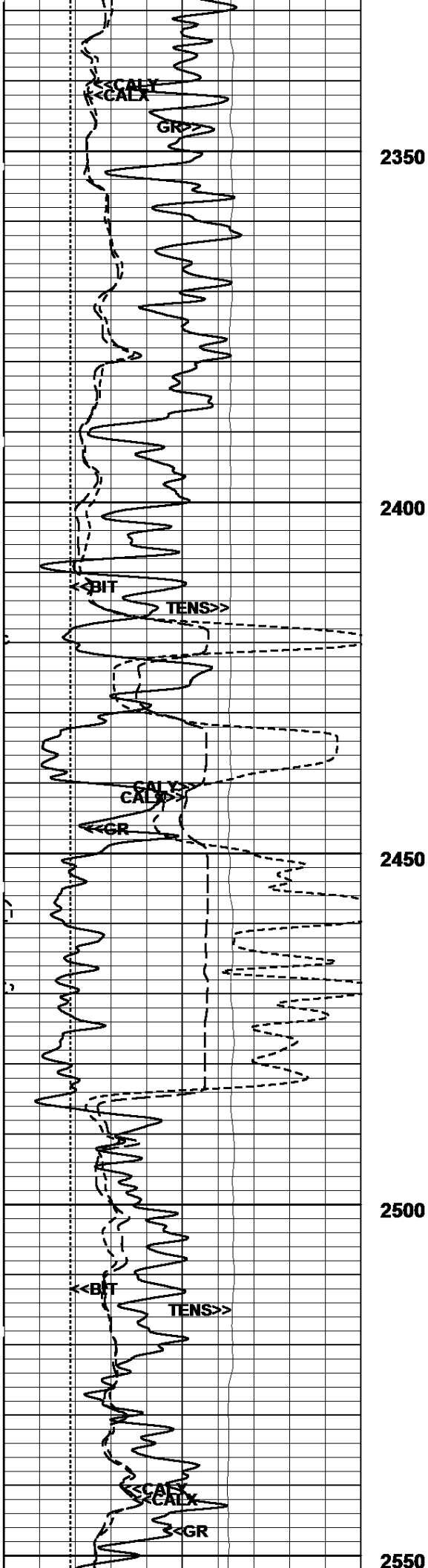


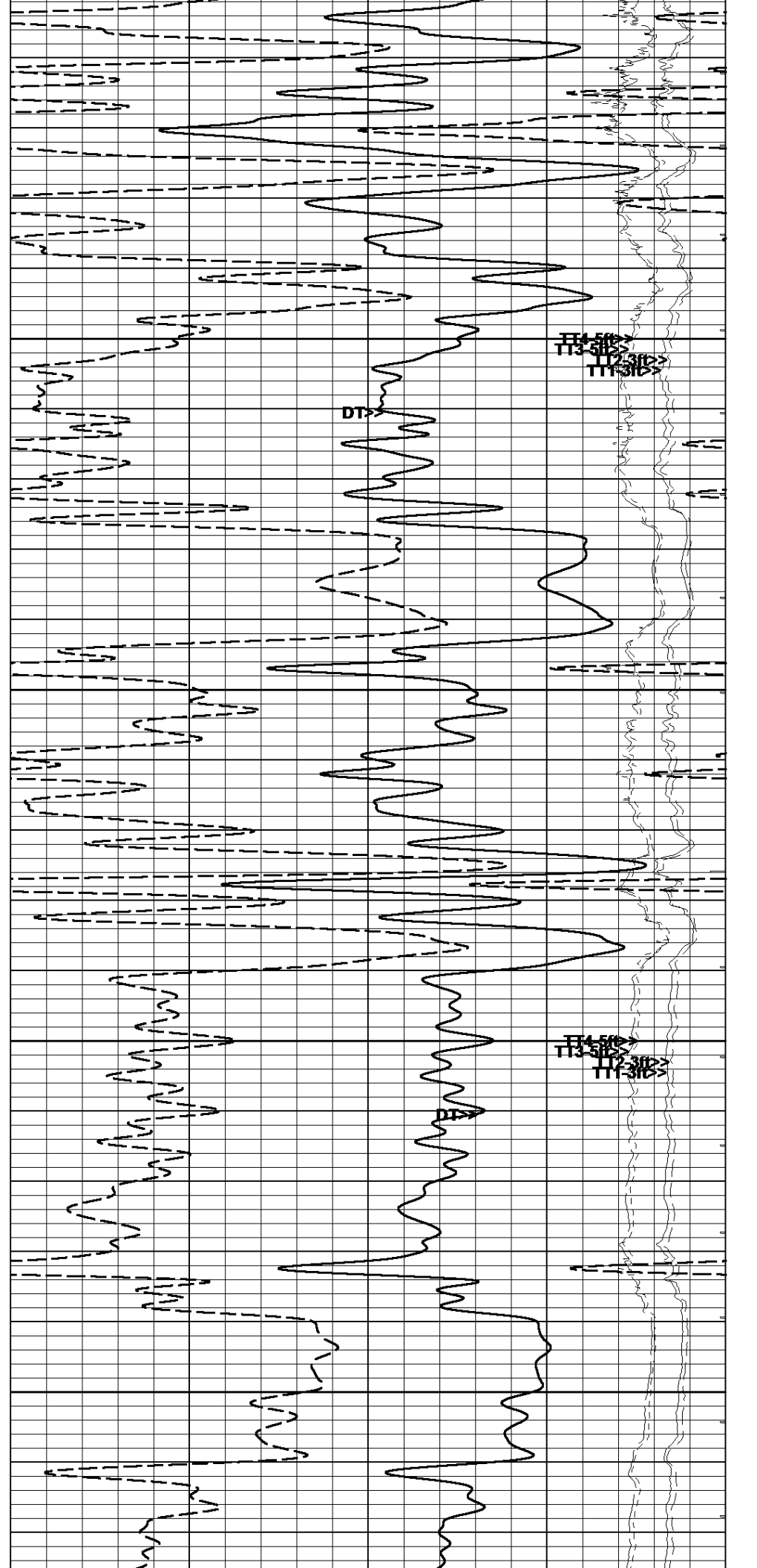
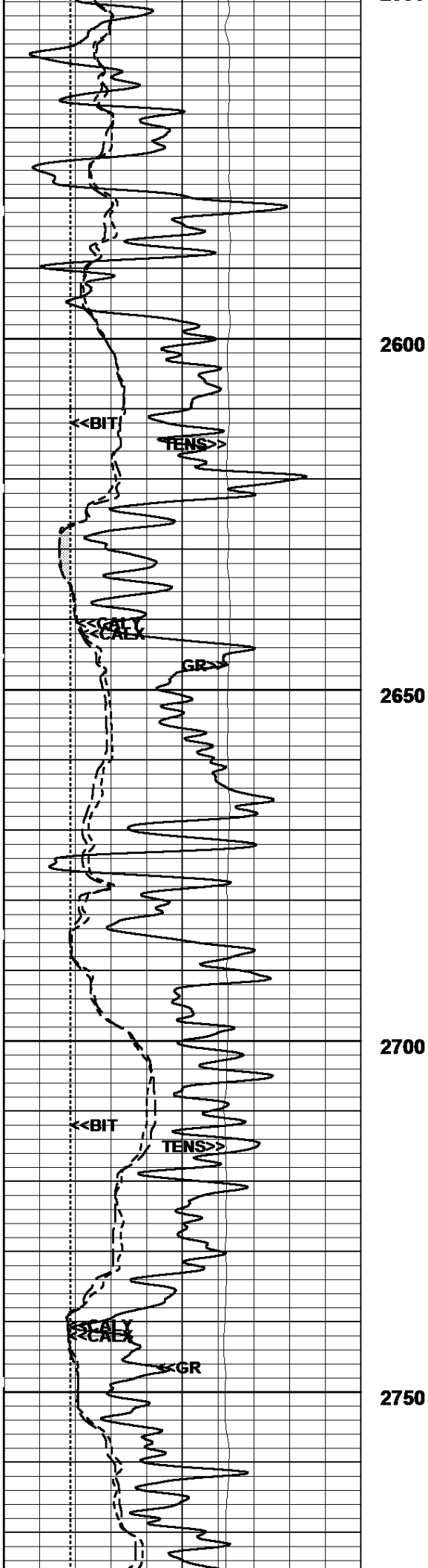


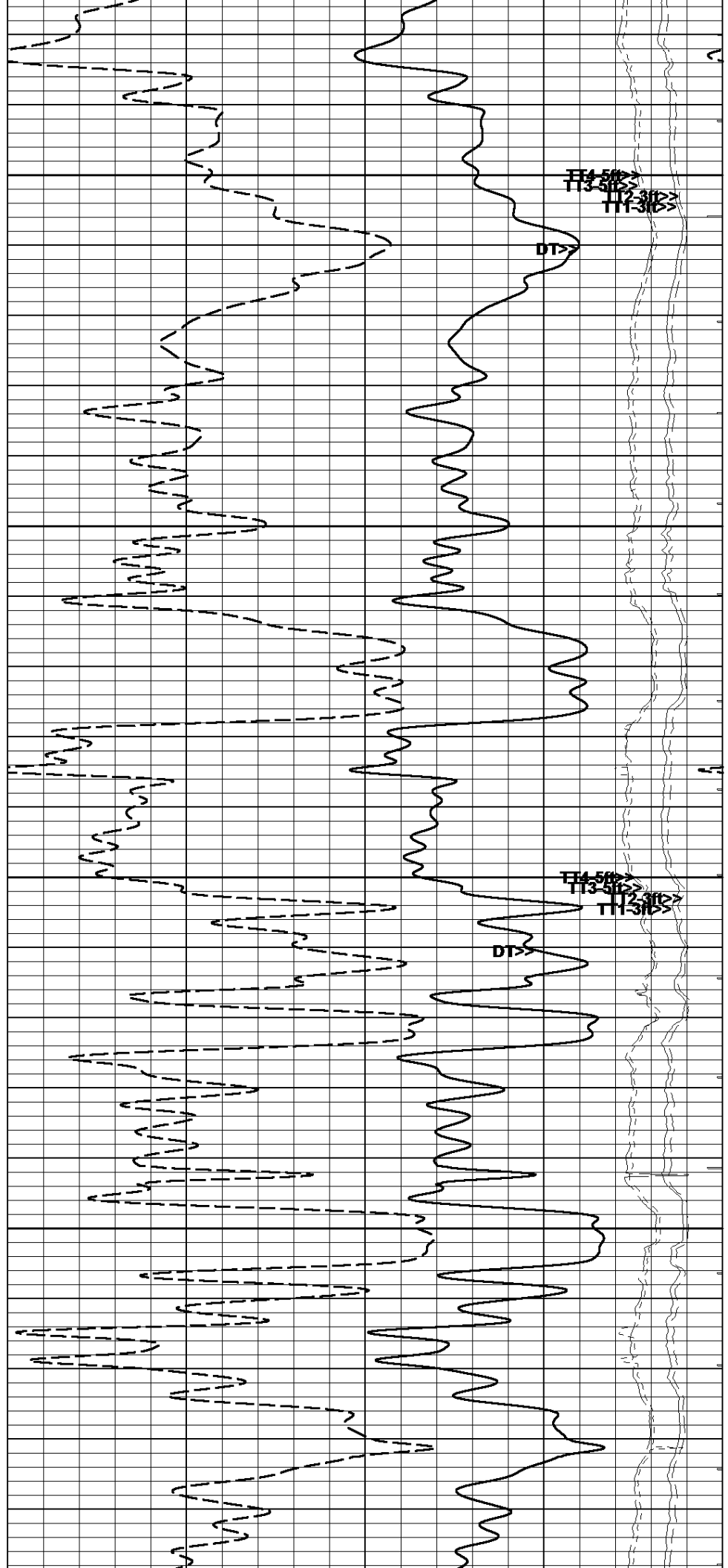
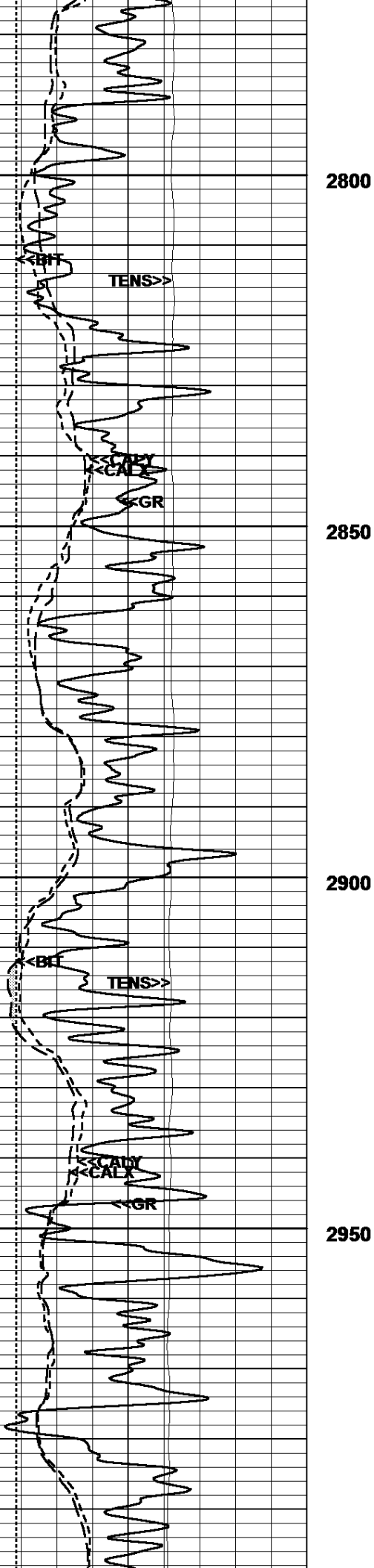












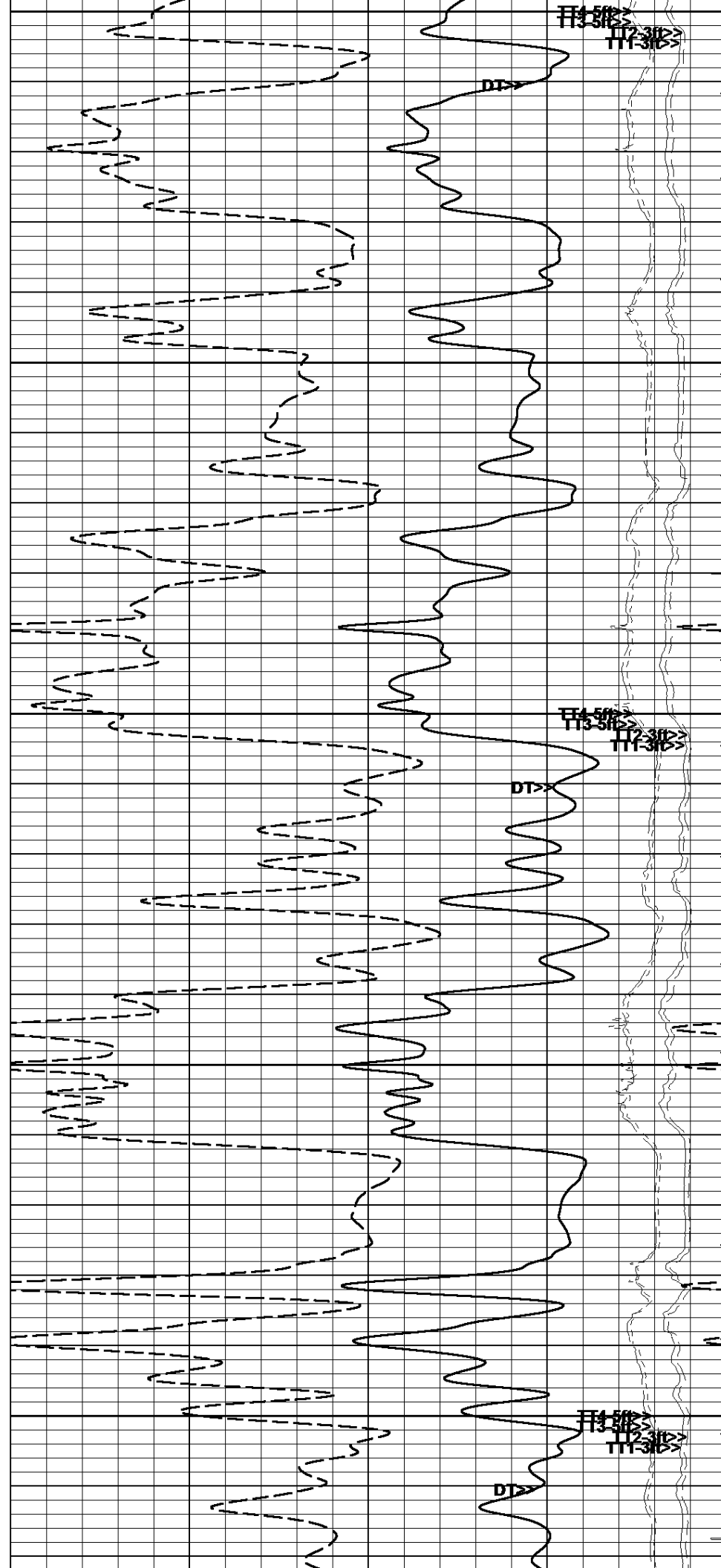
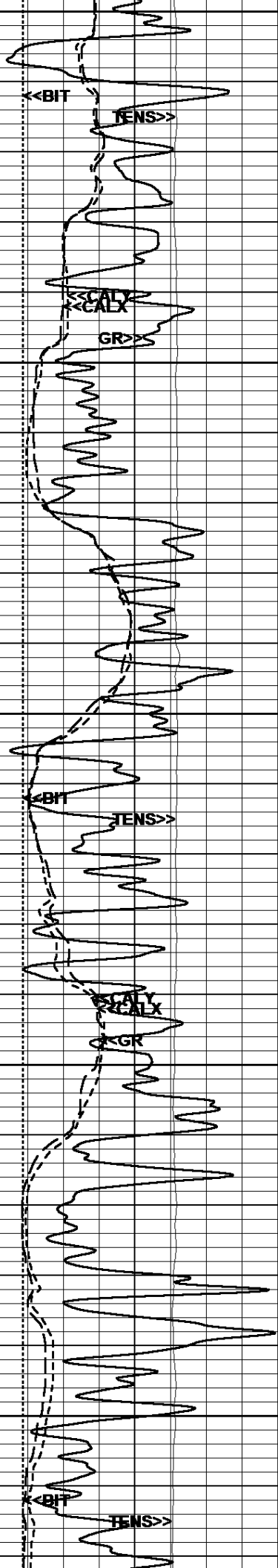
3000

3050

3100

3150

3200

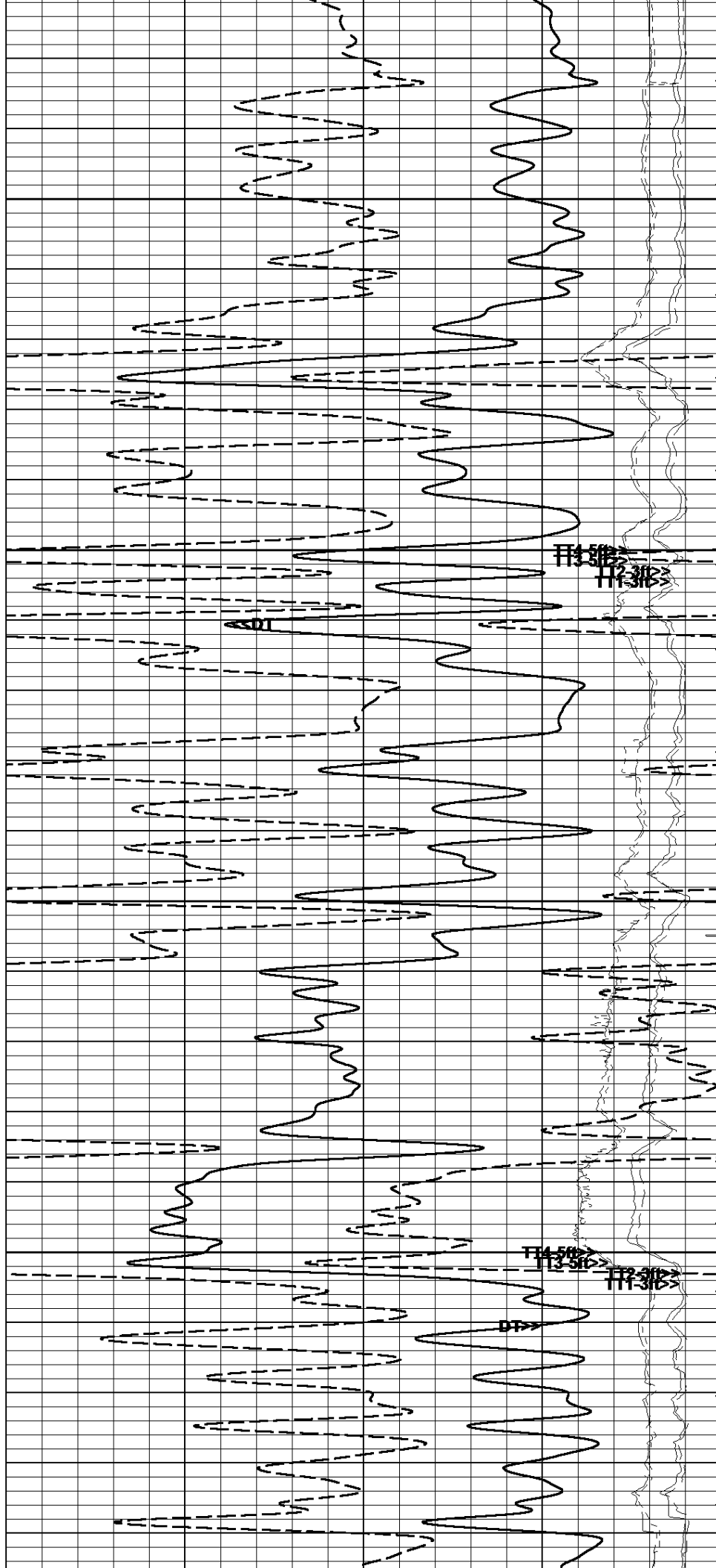
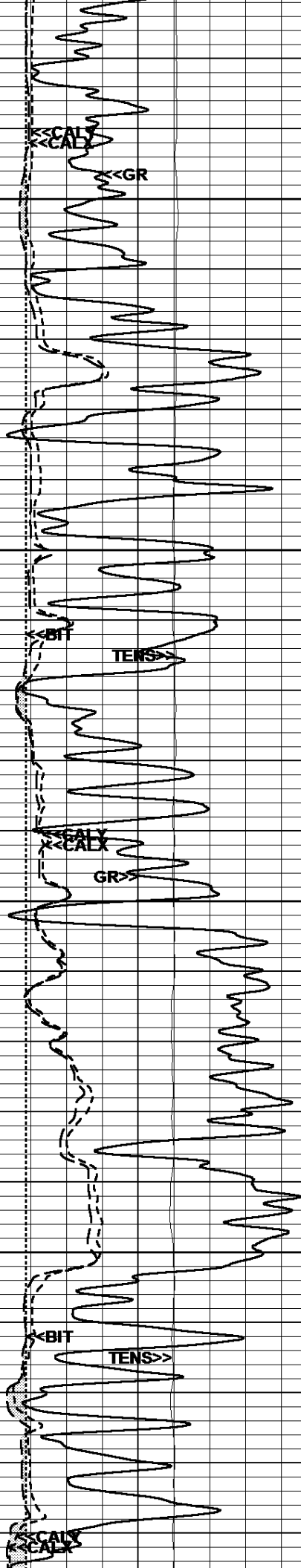


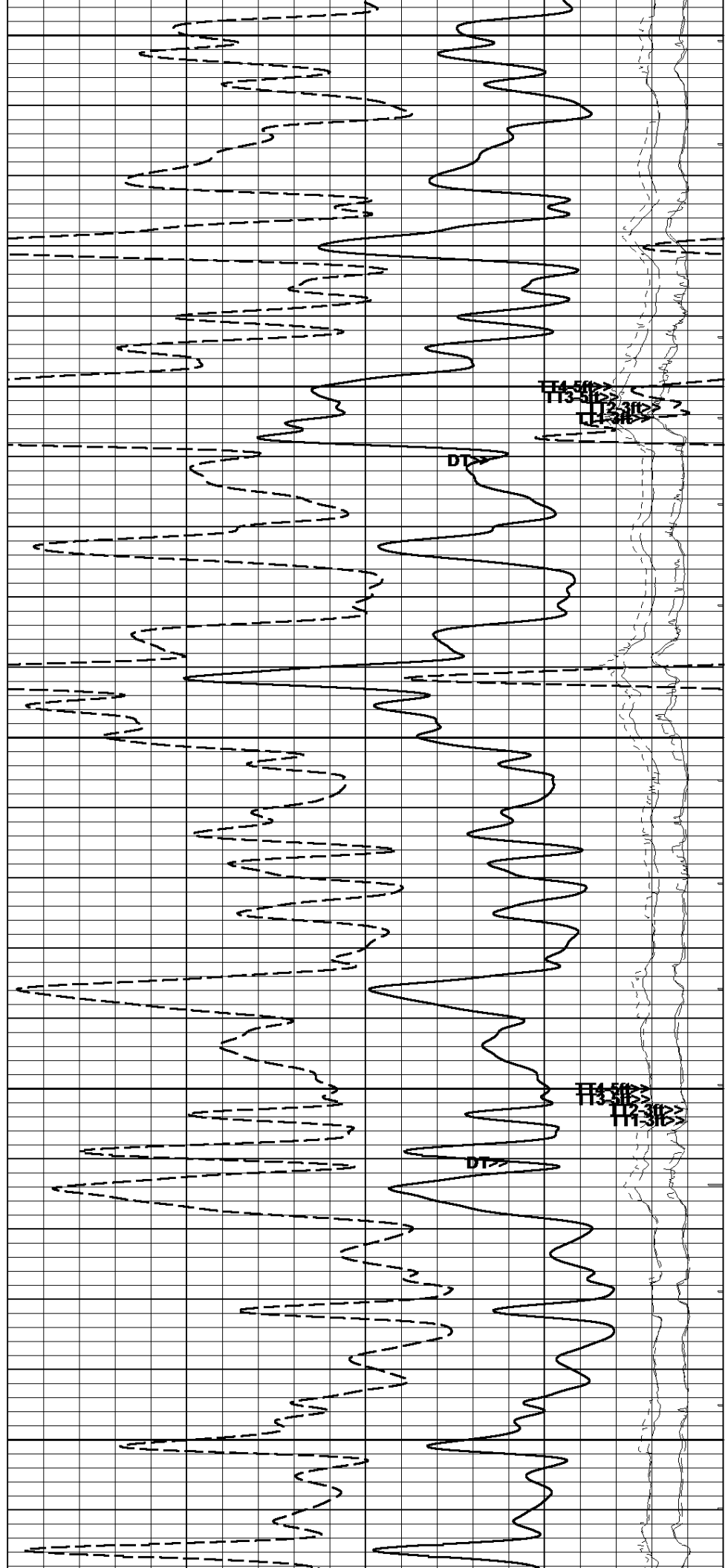
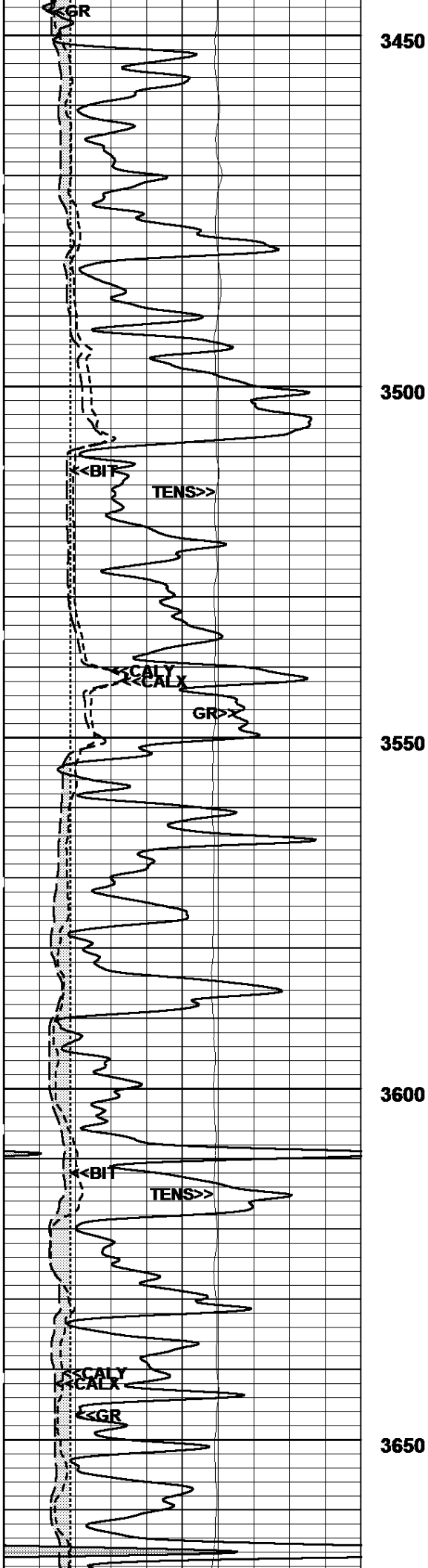
3250

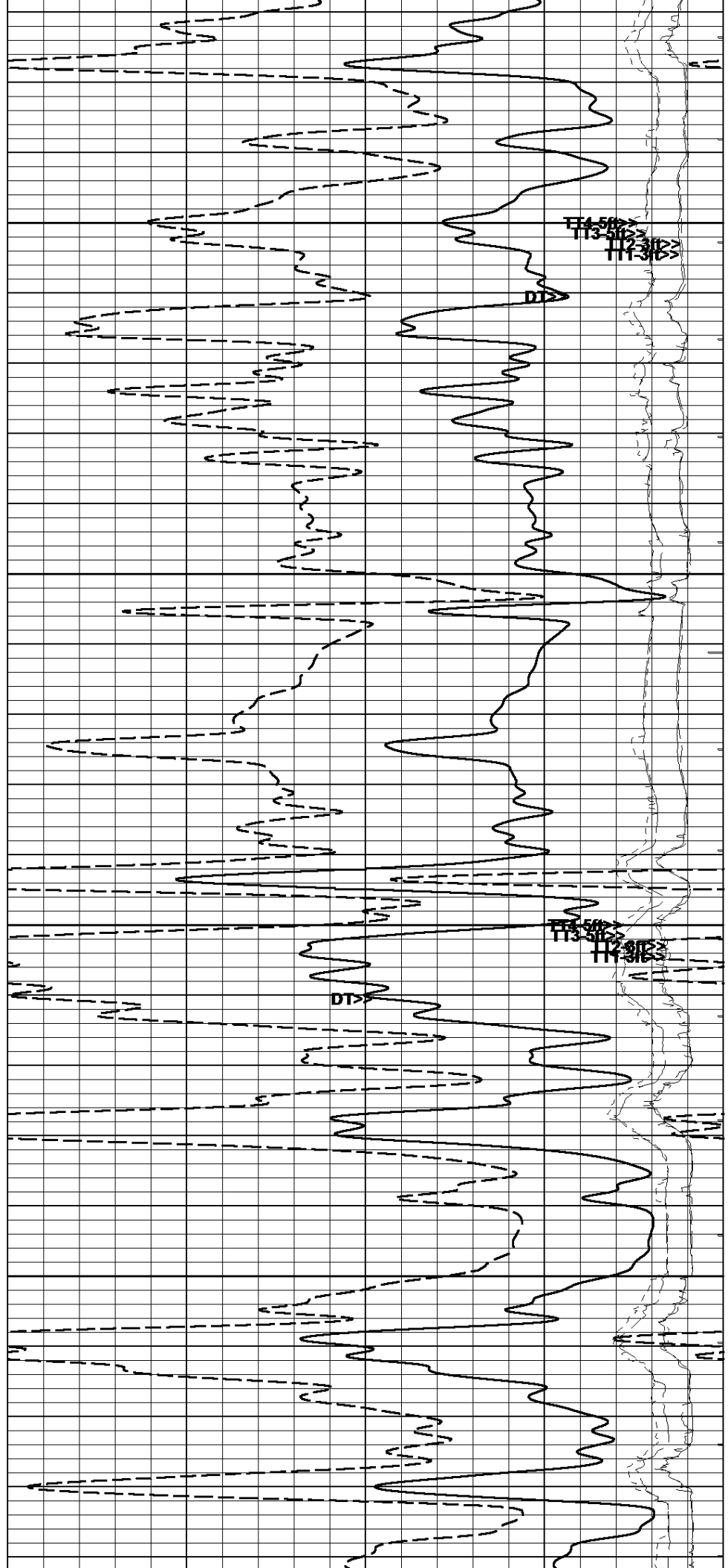
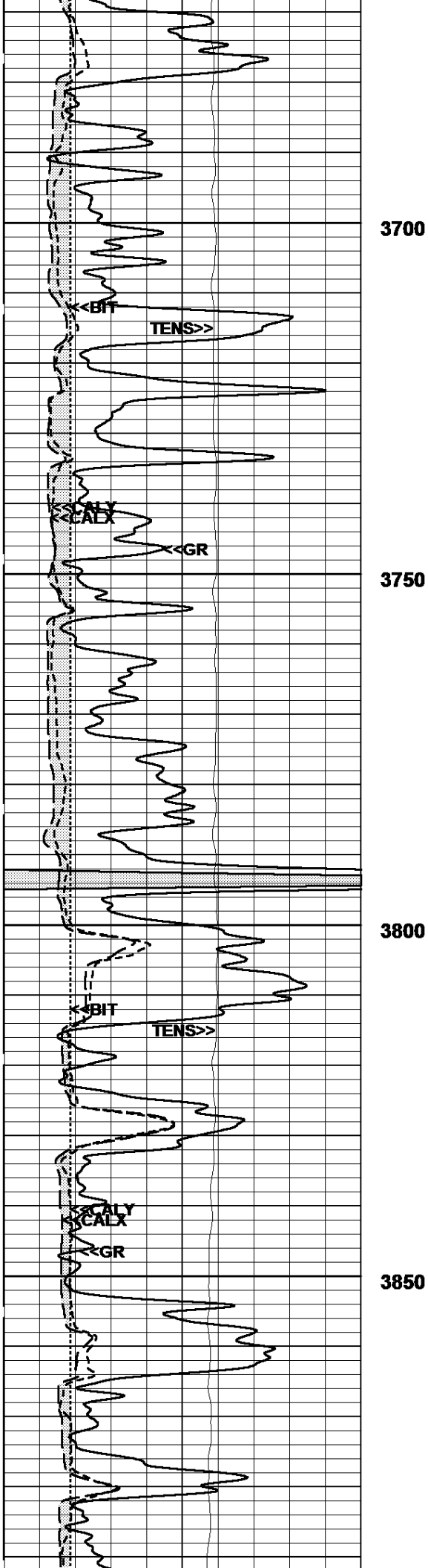
3300

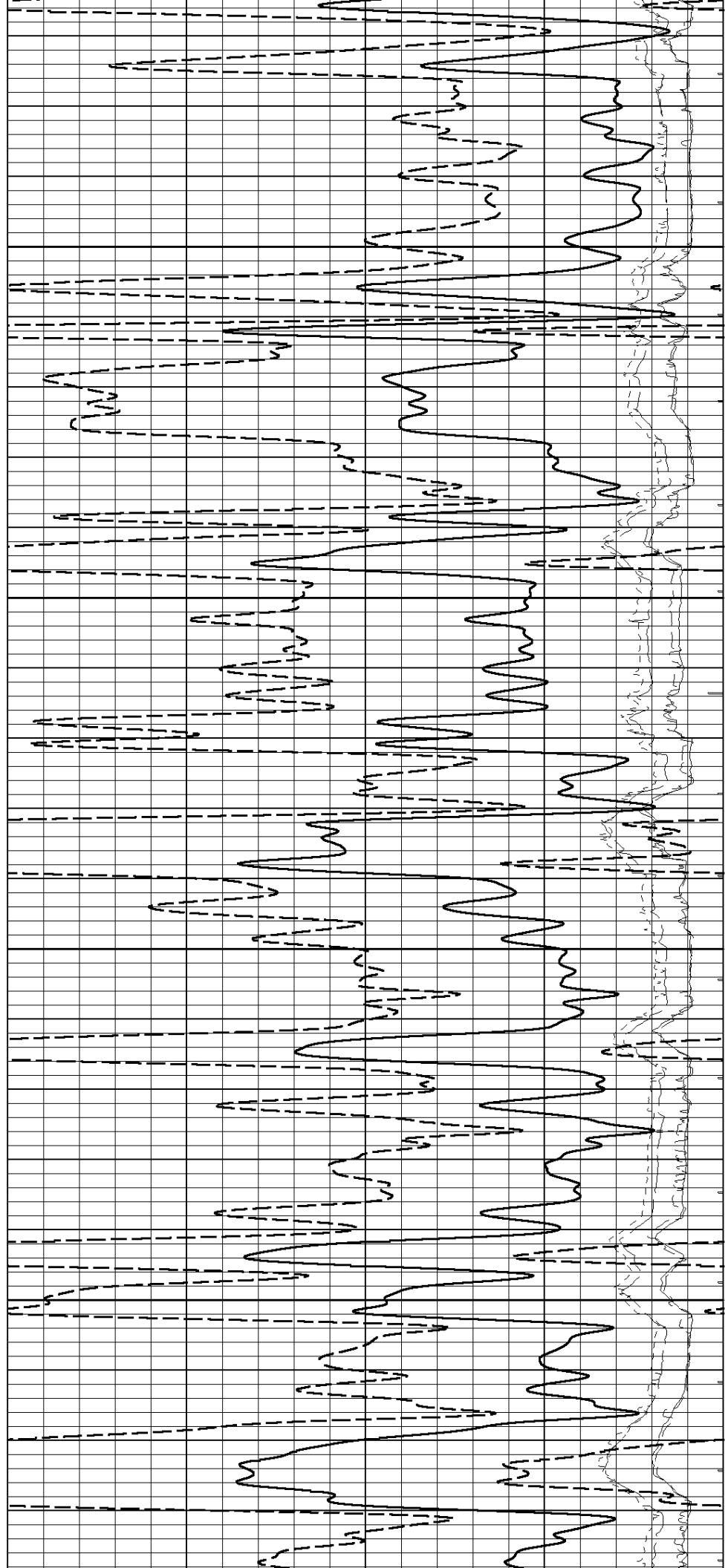
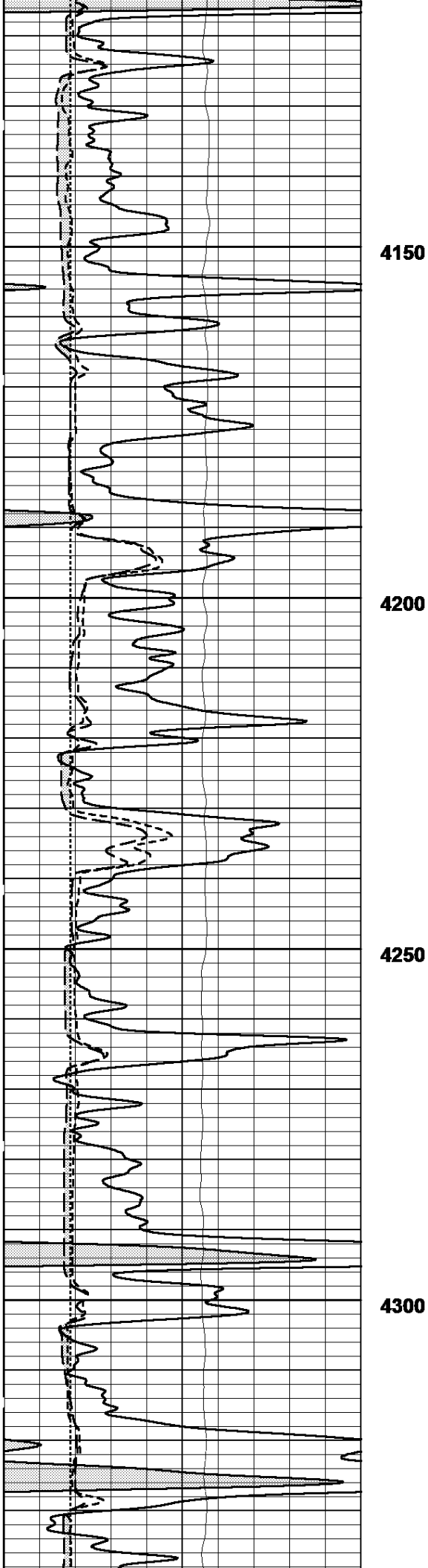
3350

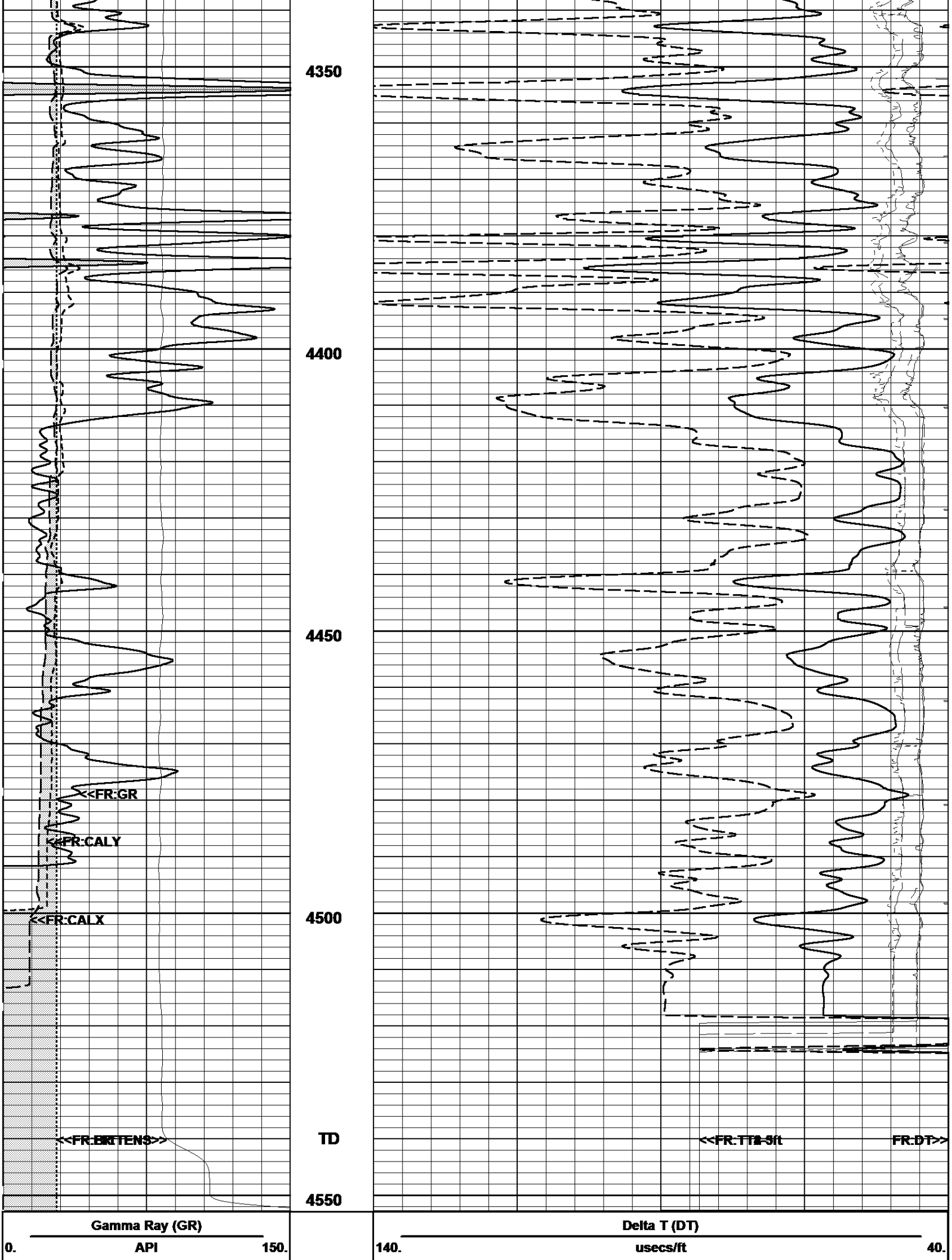
3400



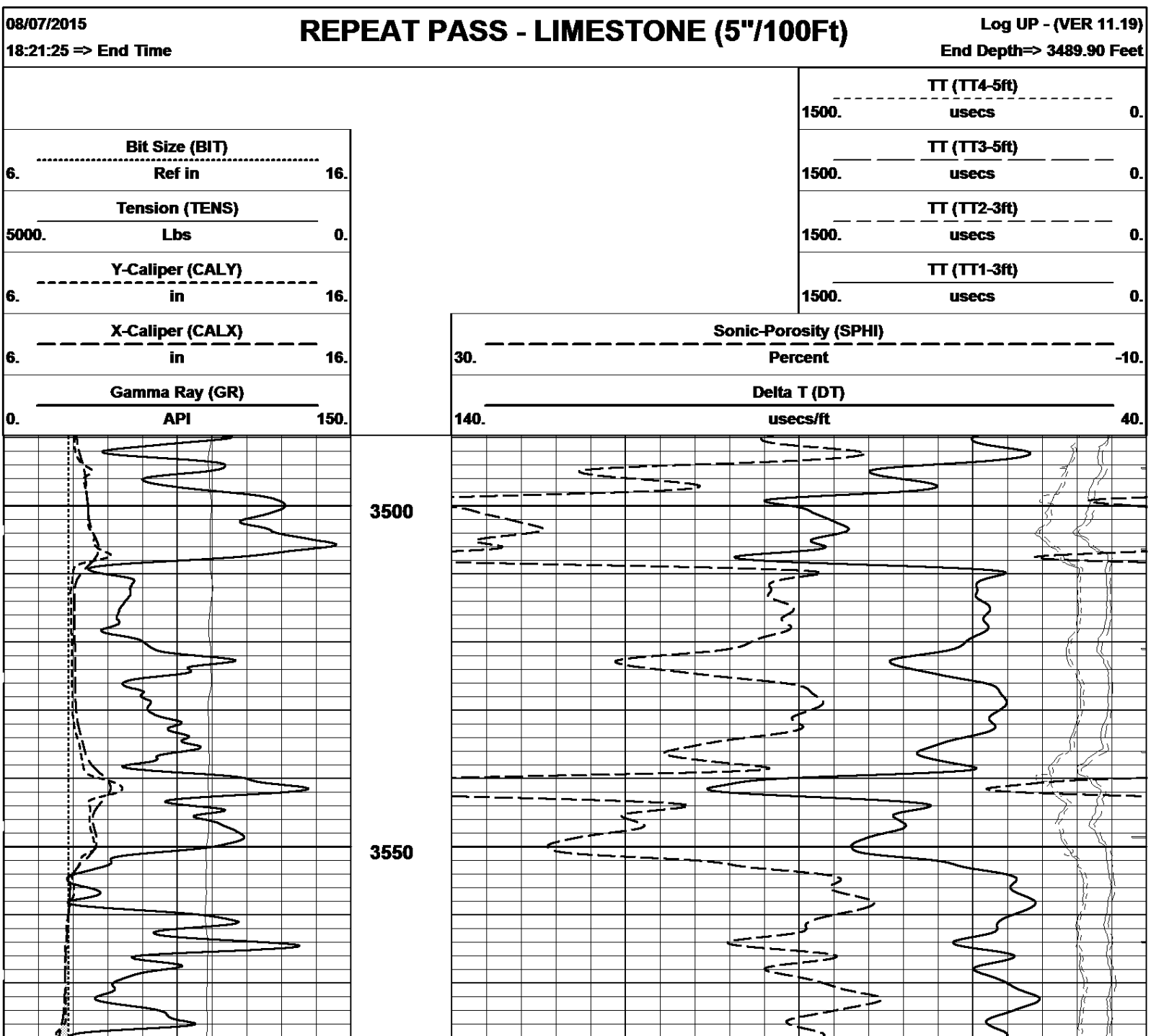


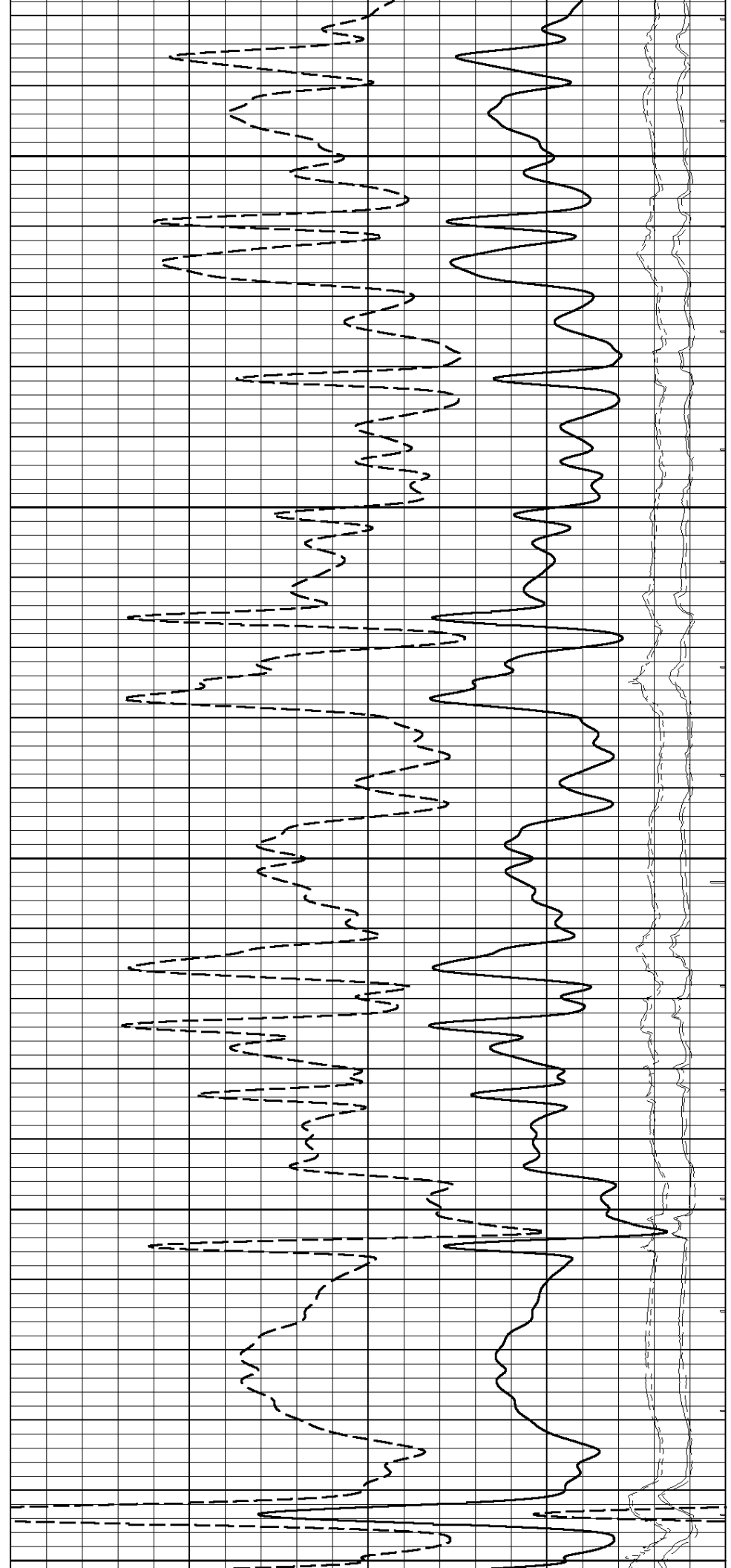
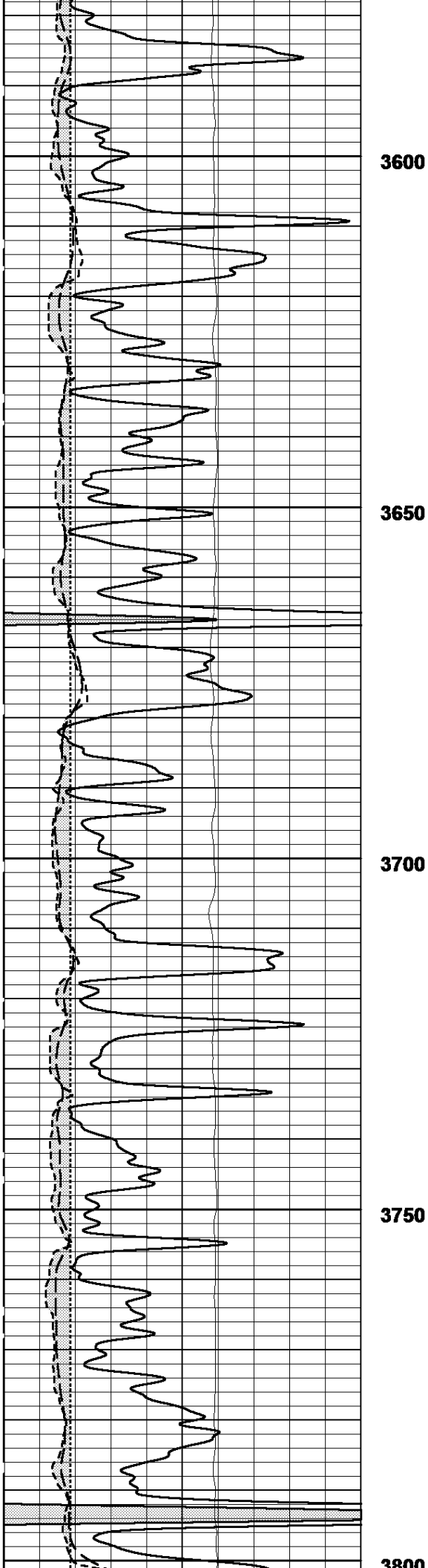


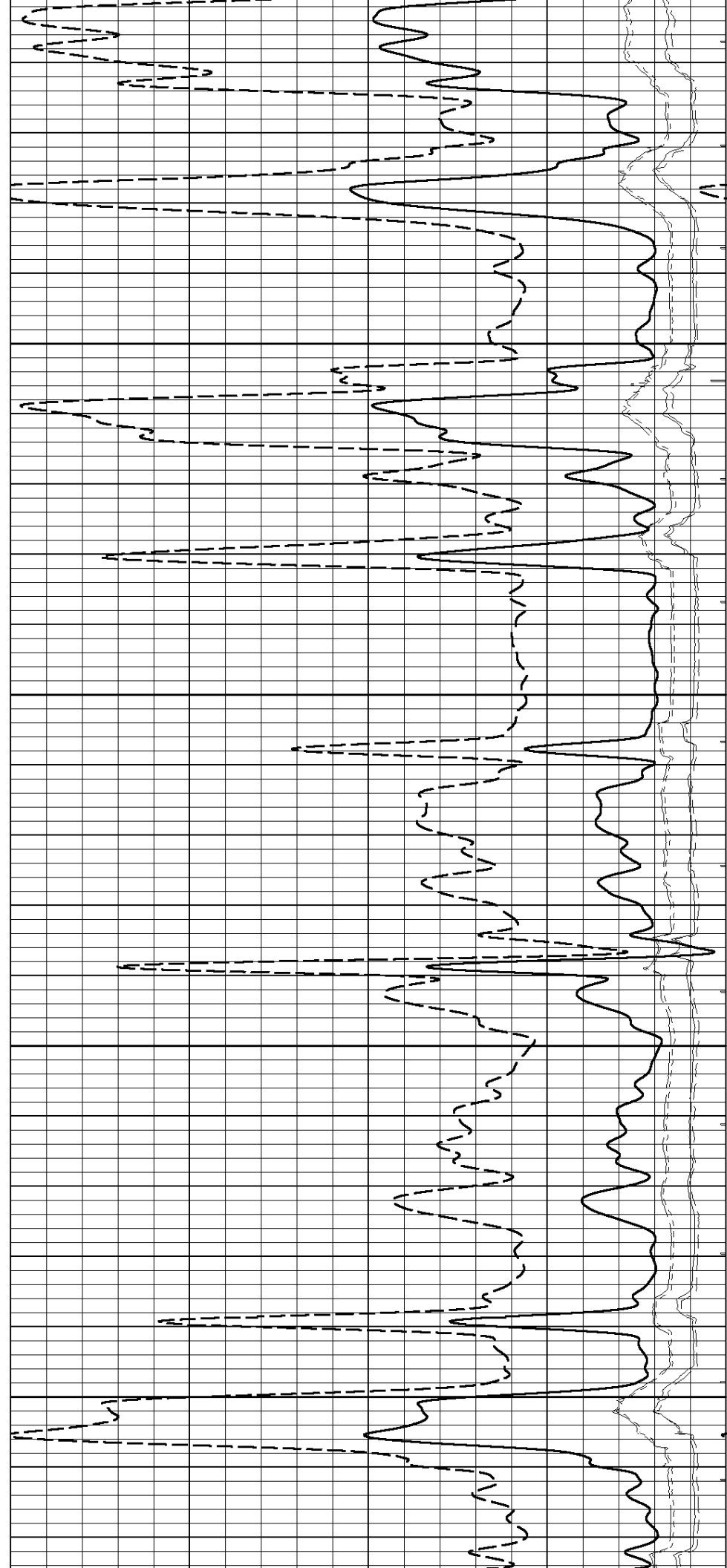
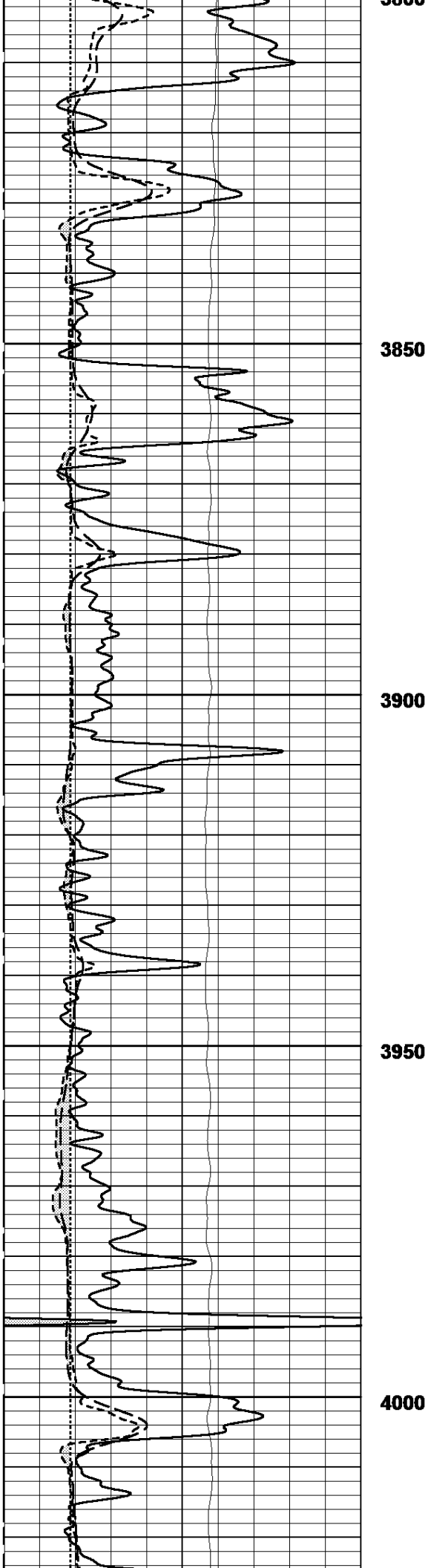


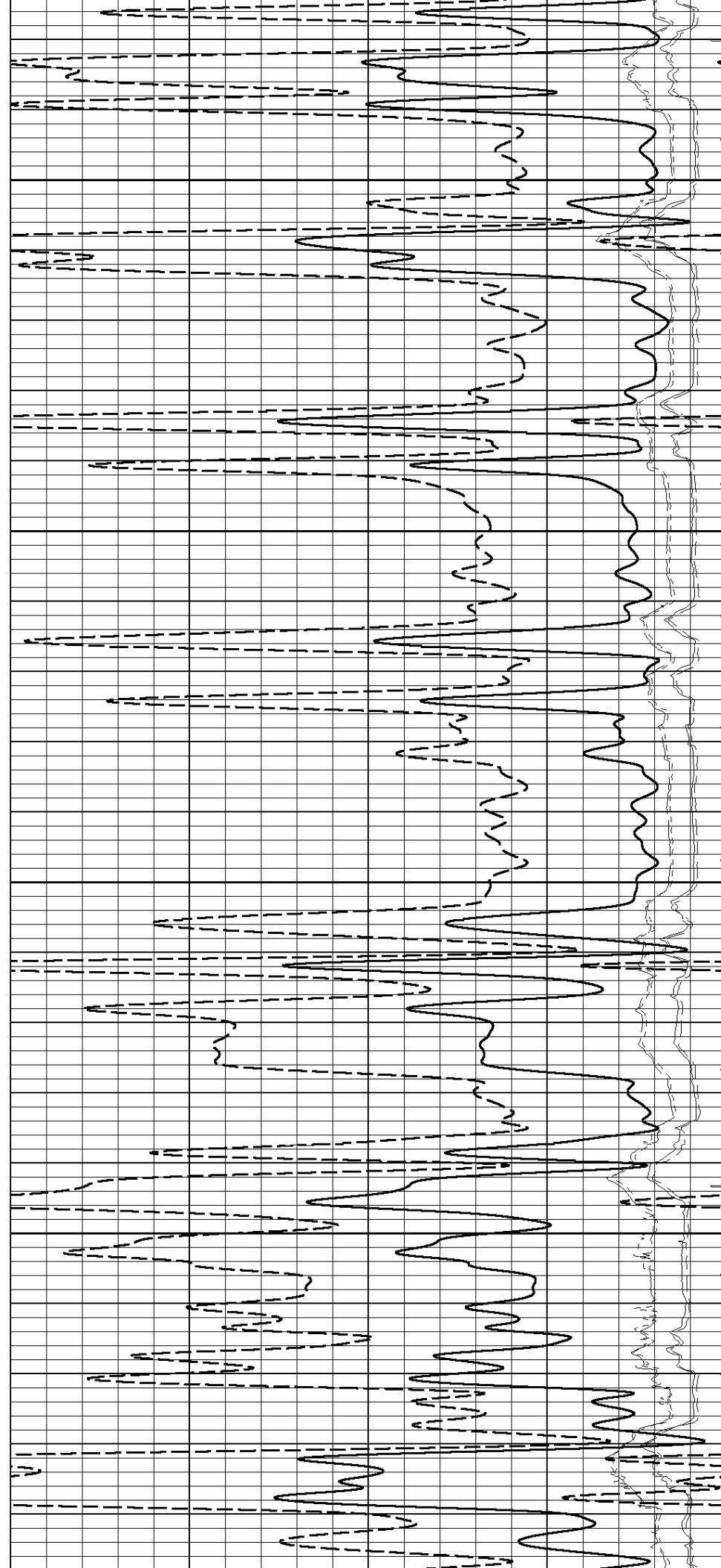
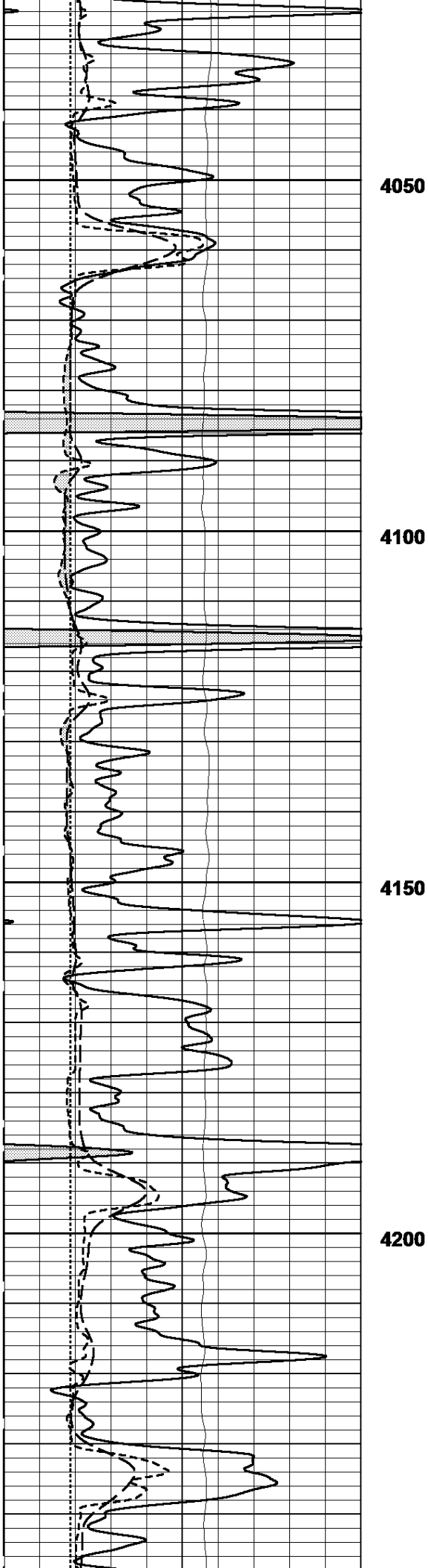


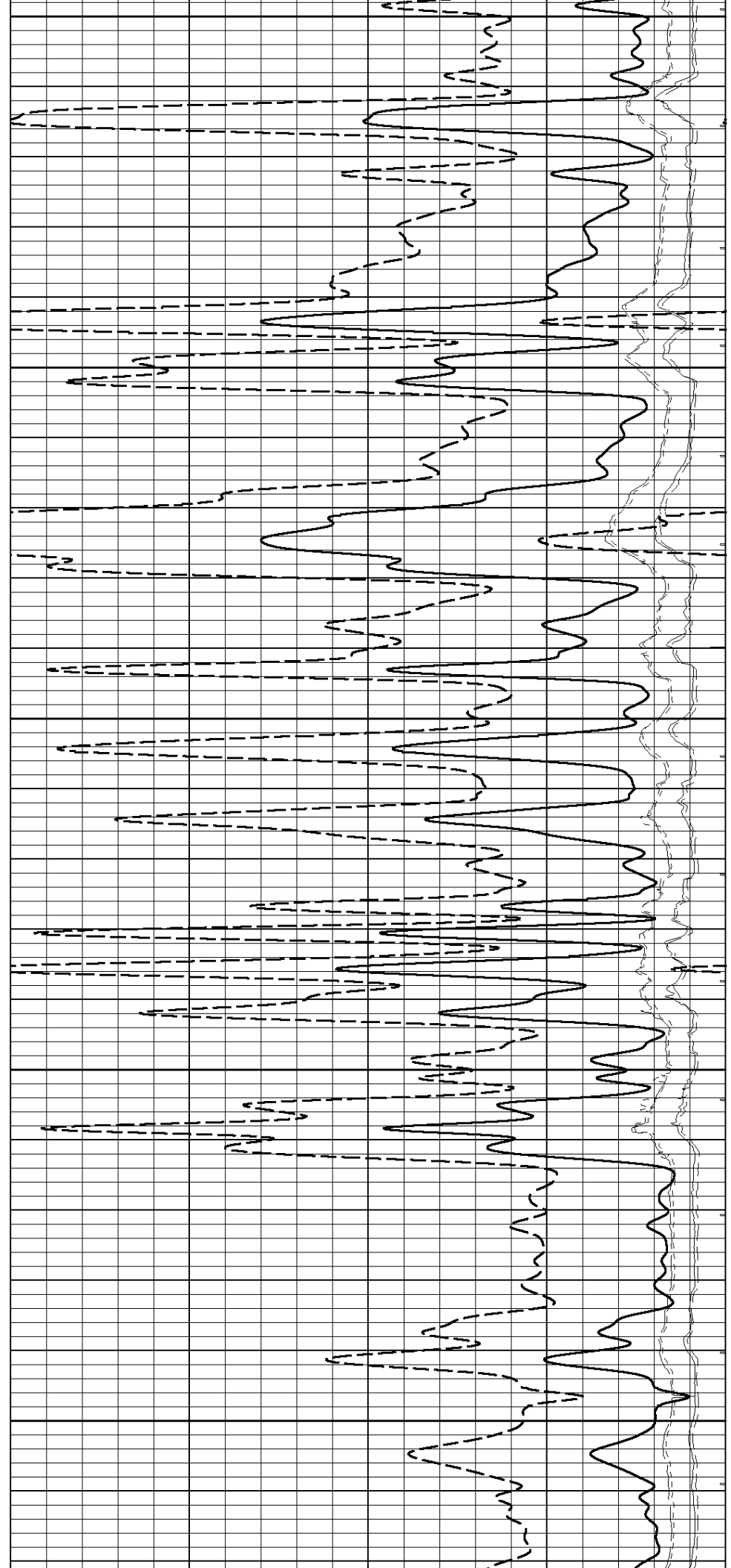
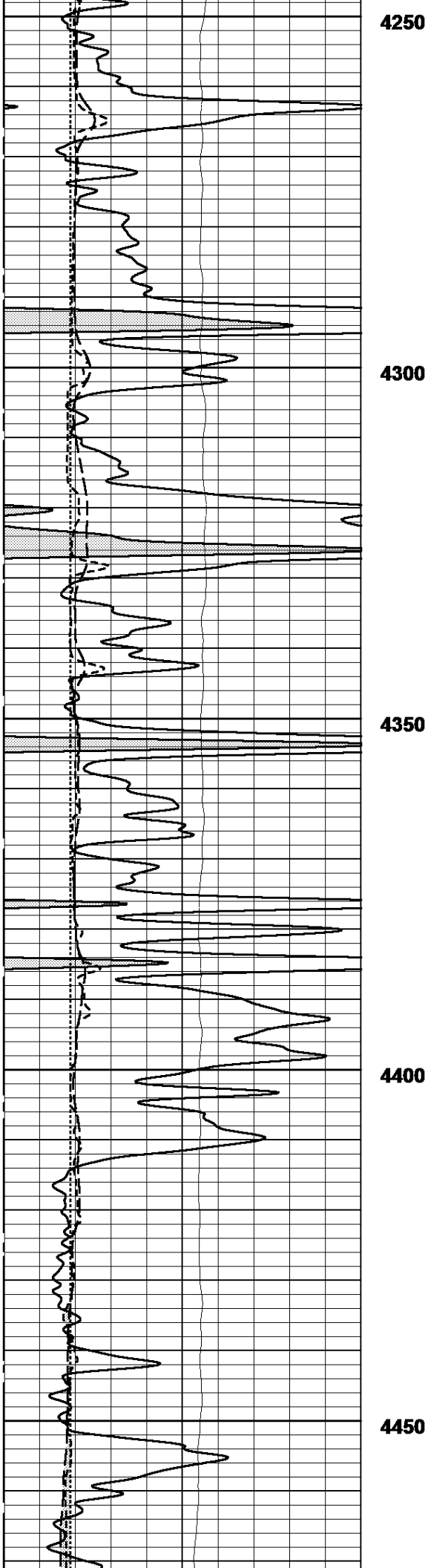
X-Caliper (CALX) 6. in 16.			Sonic-Porosity (SPHI) 30. Percent -10.					
Y-Caliper (CALY) 6. in 16.			TT (TT1-3ft) 1500. usecs 0.					
Tension (TENS) 5000. Lbs 0.			TT (TT2-3ft) 1500. usecs 0.					
Bit Size (BIT) 6. Ref in 16.			TT (TT3-5ft) 1500. usecs 0.					
			TT (TT4-5ft) 1500. usecs 0.					
08/07/2015			MAIN PASS - LIMESTONE (5"/100Ft)			Log UP - (VER 11.19)		
18:28:37 => Start Time						Start Depth=> 4552.70 Feet		

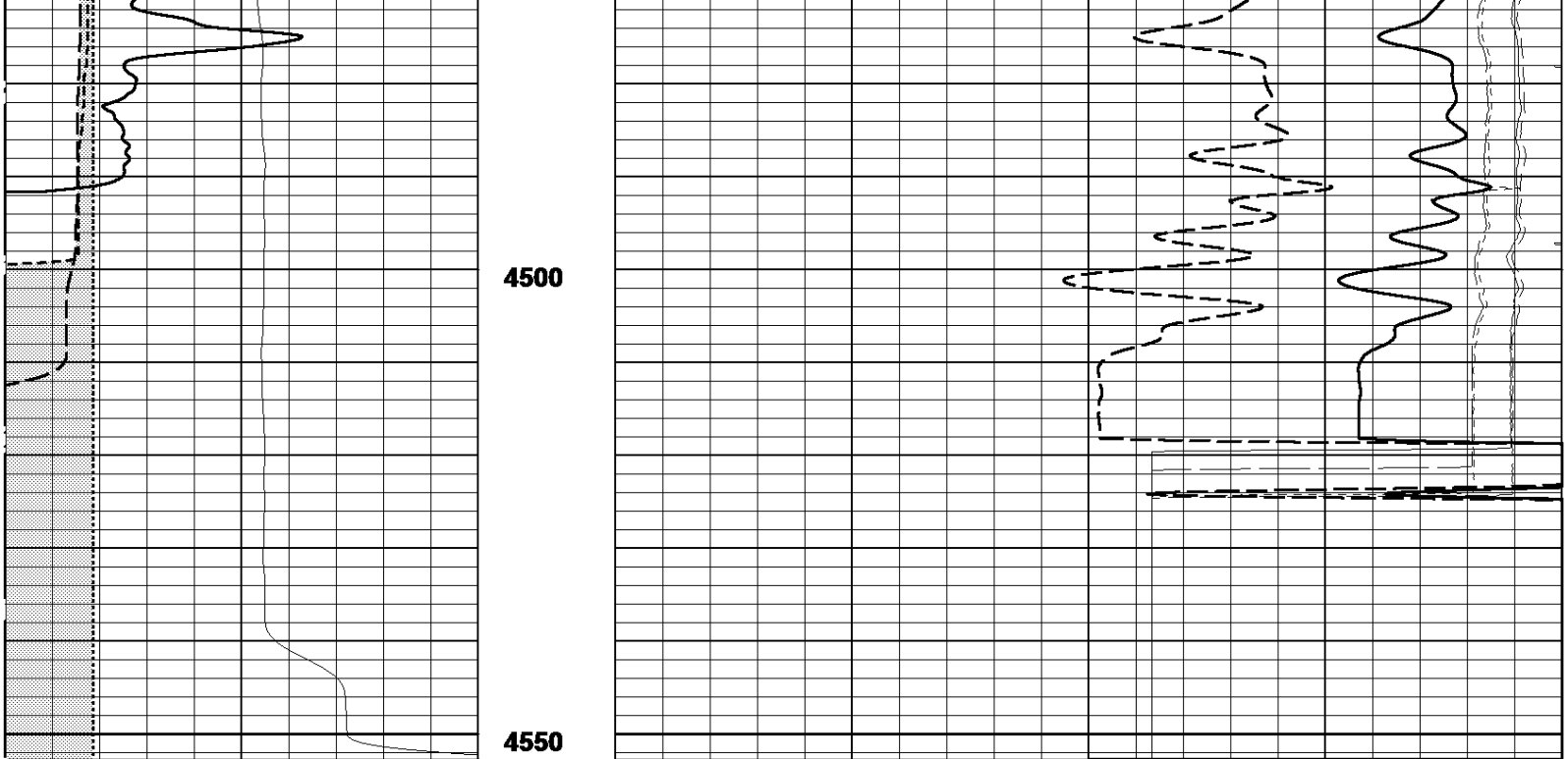










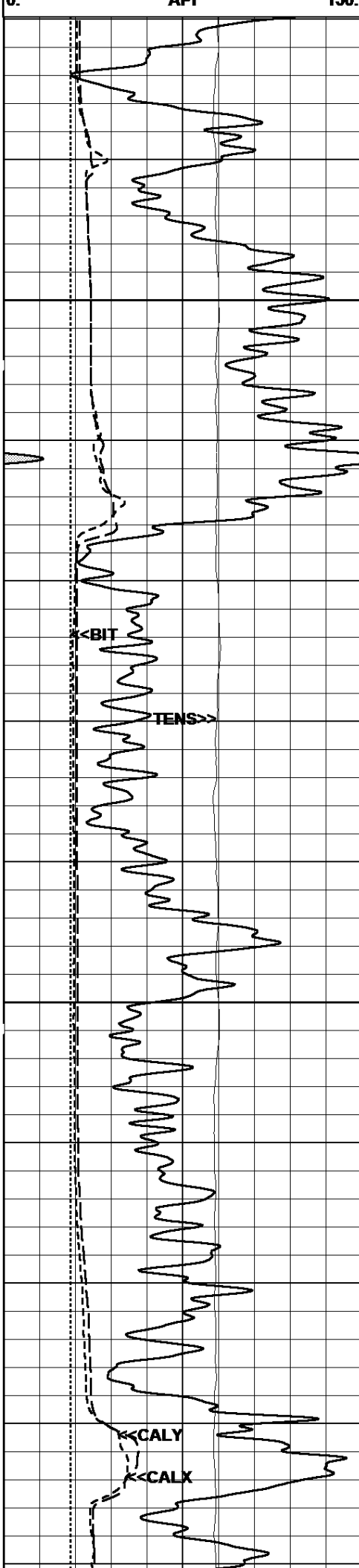


Gamma Ray (GR)			Delta T (DT)		
0.	API	150.	140.	usecs/ft	40.
X-Caliper (CALX)			Sonic-Porosity (SPHI)		
6.	in	16.	30.	Percent	-10.
Y-Caliper (CALY)			TT (TT1-3ft)		
6.	in	16.	1500.	usecs	0.
Tension (TENS)			TT (TT2-3ft)		
5000.	Lbs	0.	1500.	usecs	0.
Bit Size (BIT)			TT (TT3-5ft)		
6.	Ref in	16.	1500.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

08/07/2015	REPEAT PASS - LIMESTONE (5"/100ft)	Log UP - (VER 11.19)
17:27:20 ⇒ Start Time		Start Depth⇒ 4552.70 Feet

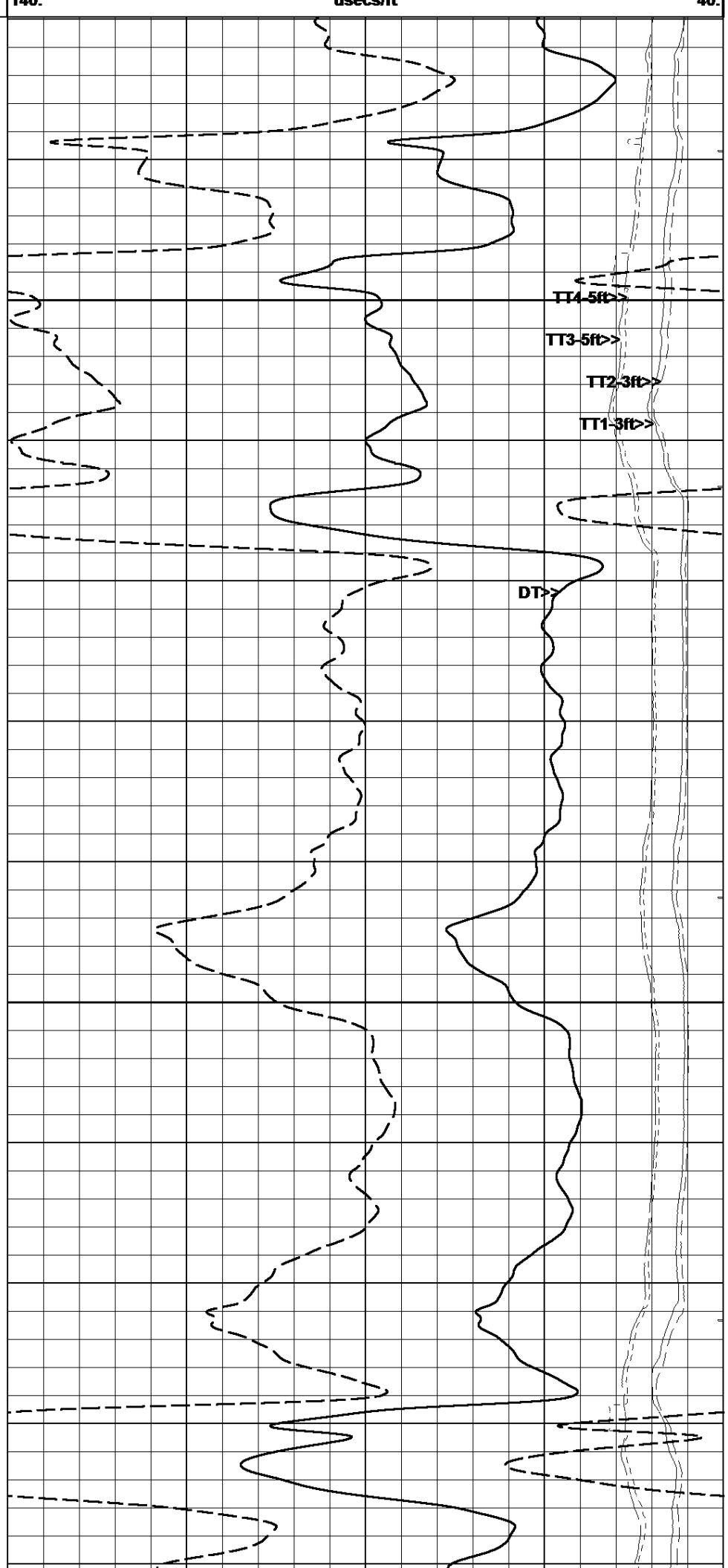
08/07/2015	HIGH DEFINITION PASS - LIMESTONE (20"/100ft)	Log UP - (VER 11.19)
18:21:25 ⇒ End Time		End Depth⇒ 3489.97 Feet

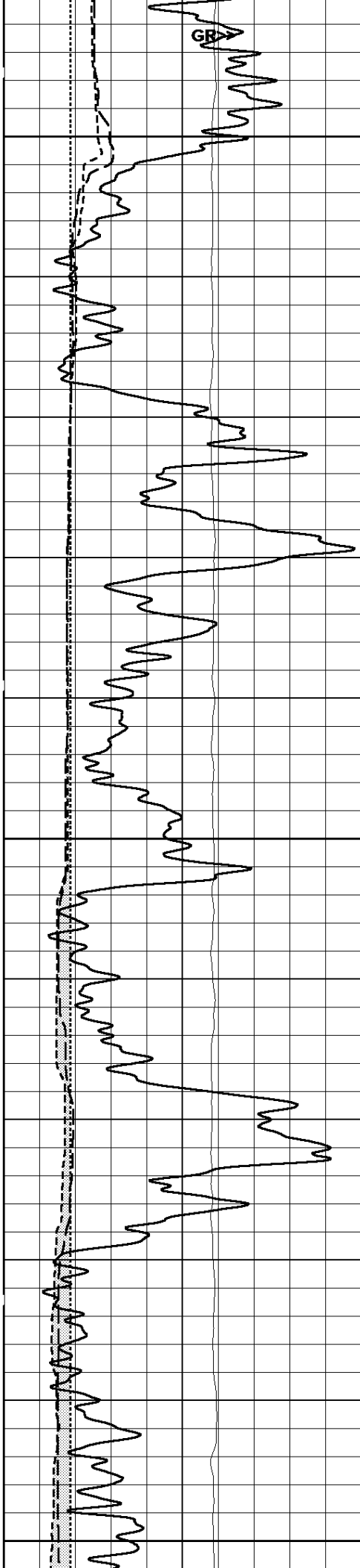
Bit Size (BIT)			TT (TT4-5ft)		
6.	Ref in	16.	1500.	usecs	0.
Tension (TENS)			TT (TT3-5ft)		
5000.	Lbs	0.	1500.	usecs	0.
Y-Caliper (CALY)			TT (TT2-3ft)		
6.	in	16.	1500.	usecs	0.
X-Caliper (CALX)			TT (TT1-3ft)		
6.	in	16.	1500.	usecs	0.
Gamma Ray (GR)			Sonic-Porosity (SPHI)		
0.	API	150.	30.	Percent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



3500

3525

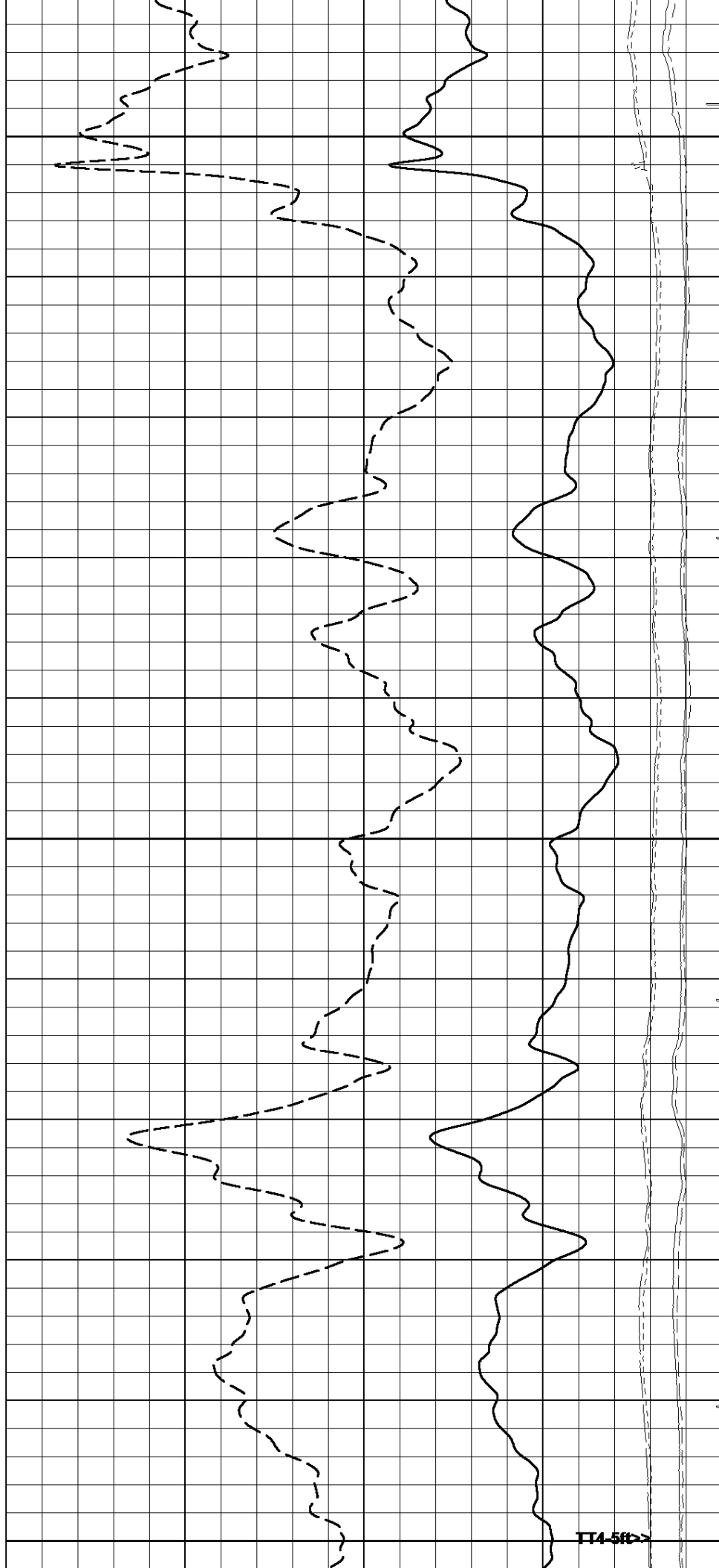




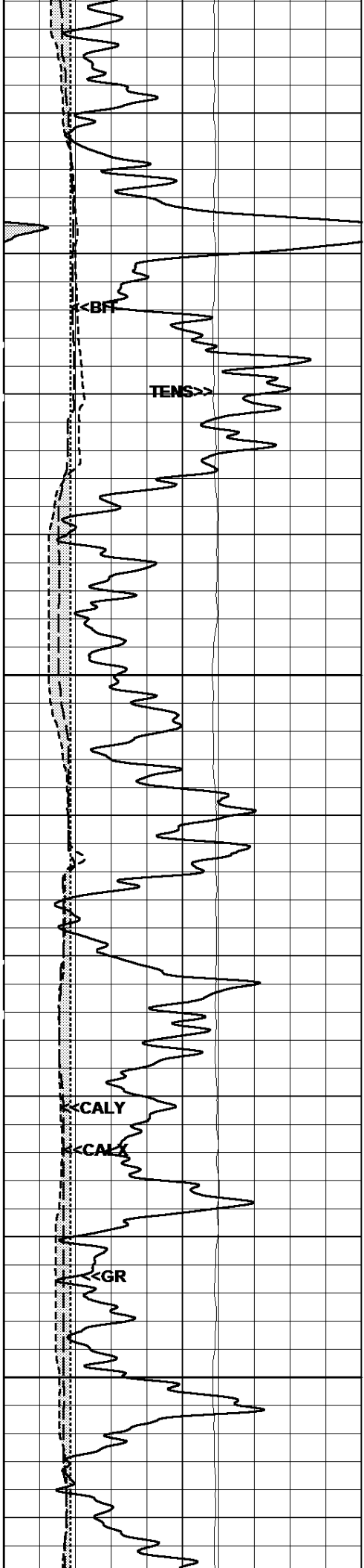
3550

3575

3600

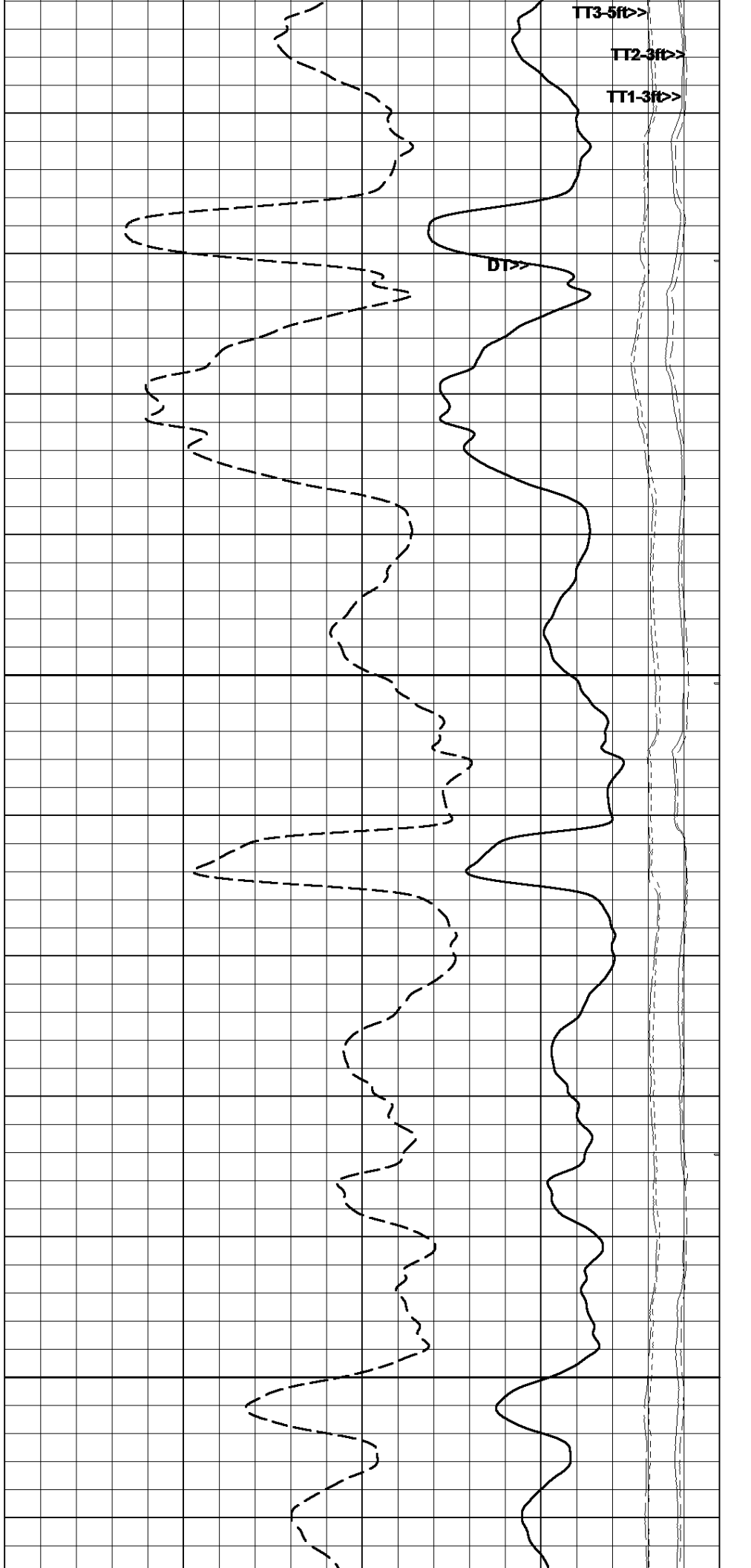


TT4-5ft>>



3625

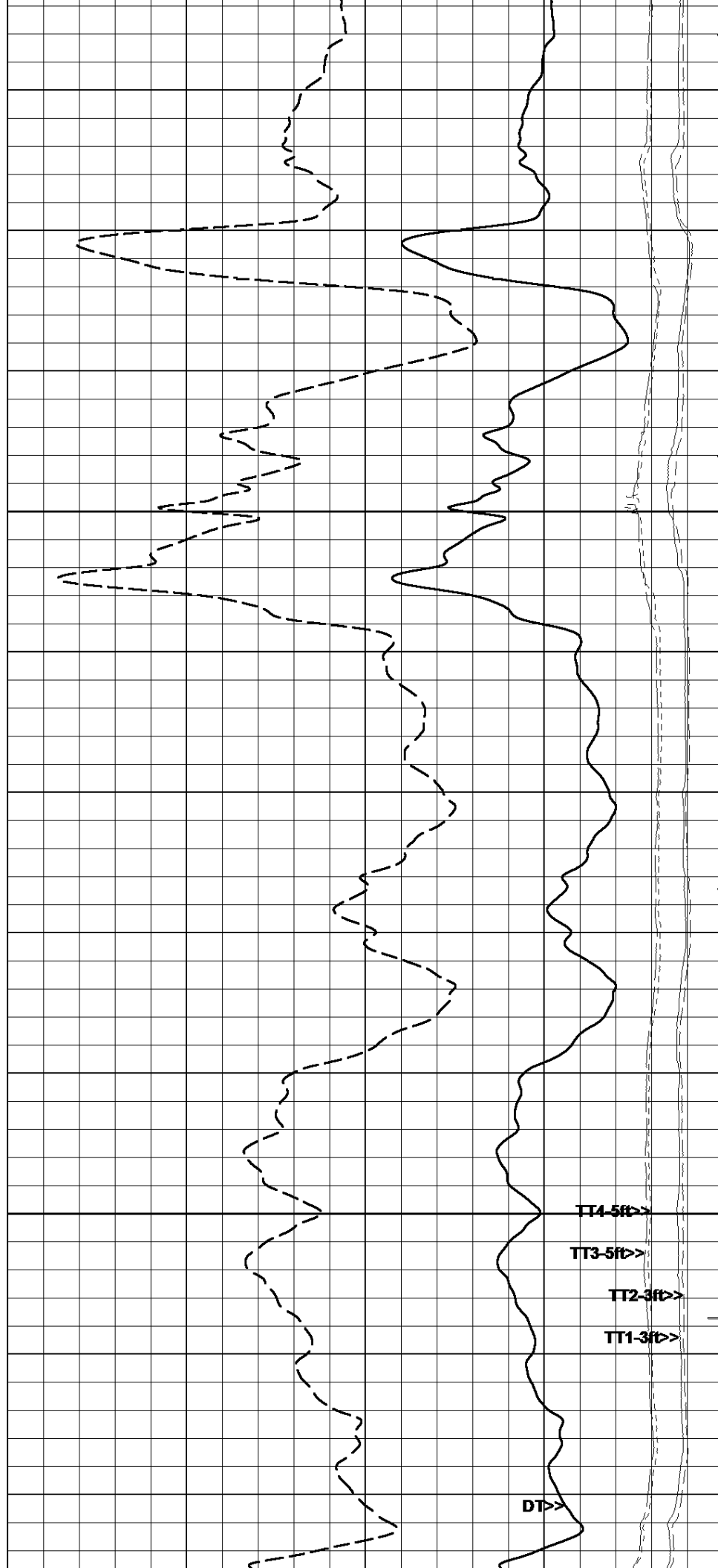
3650

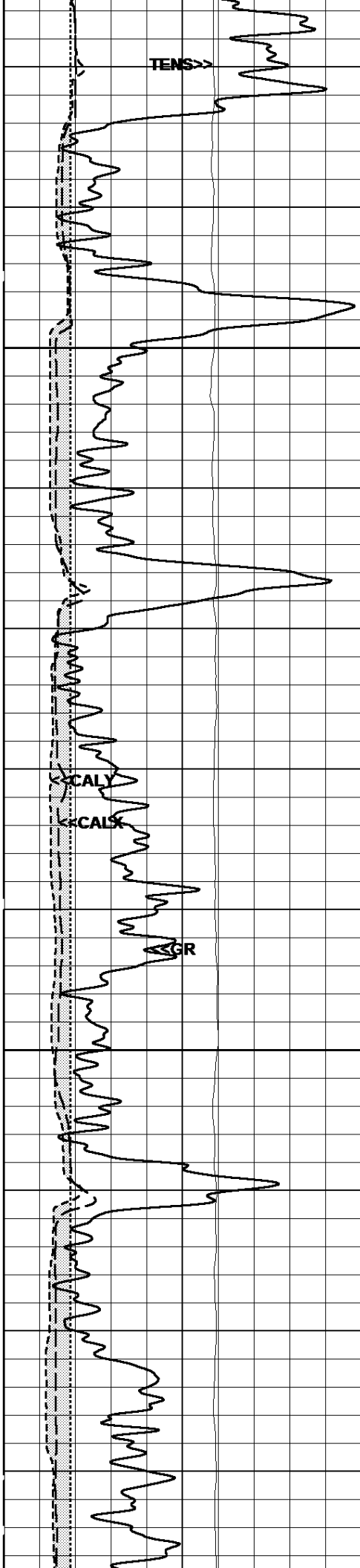




3675

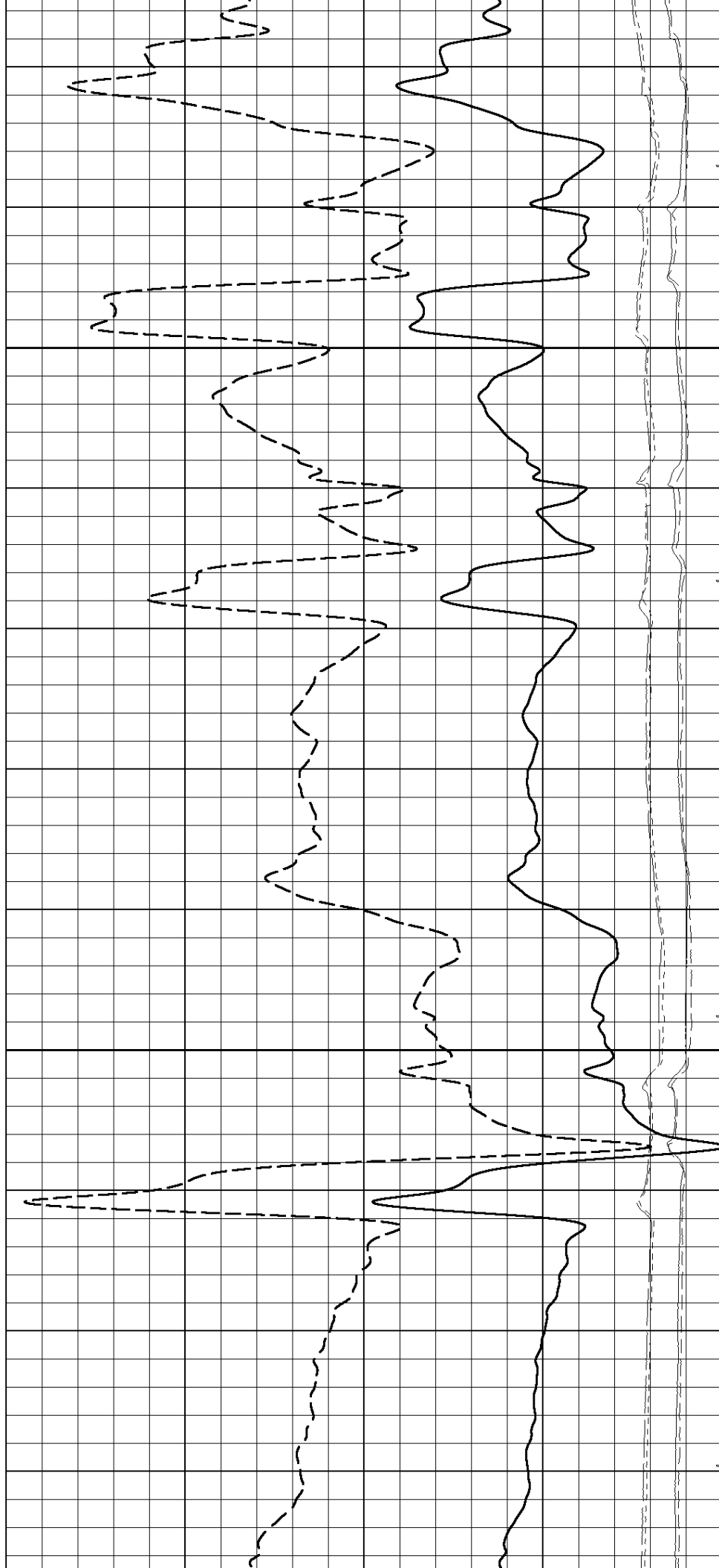
3700

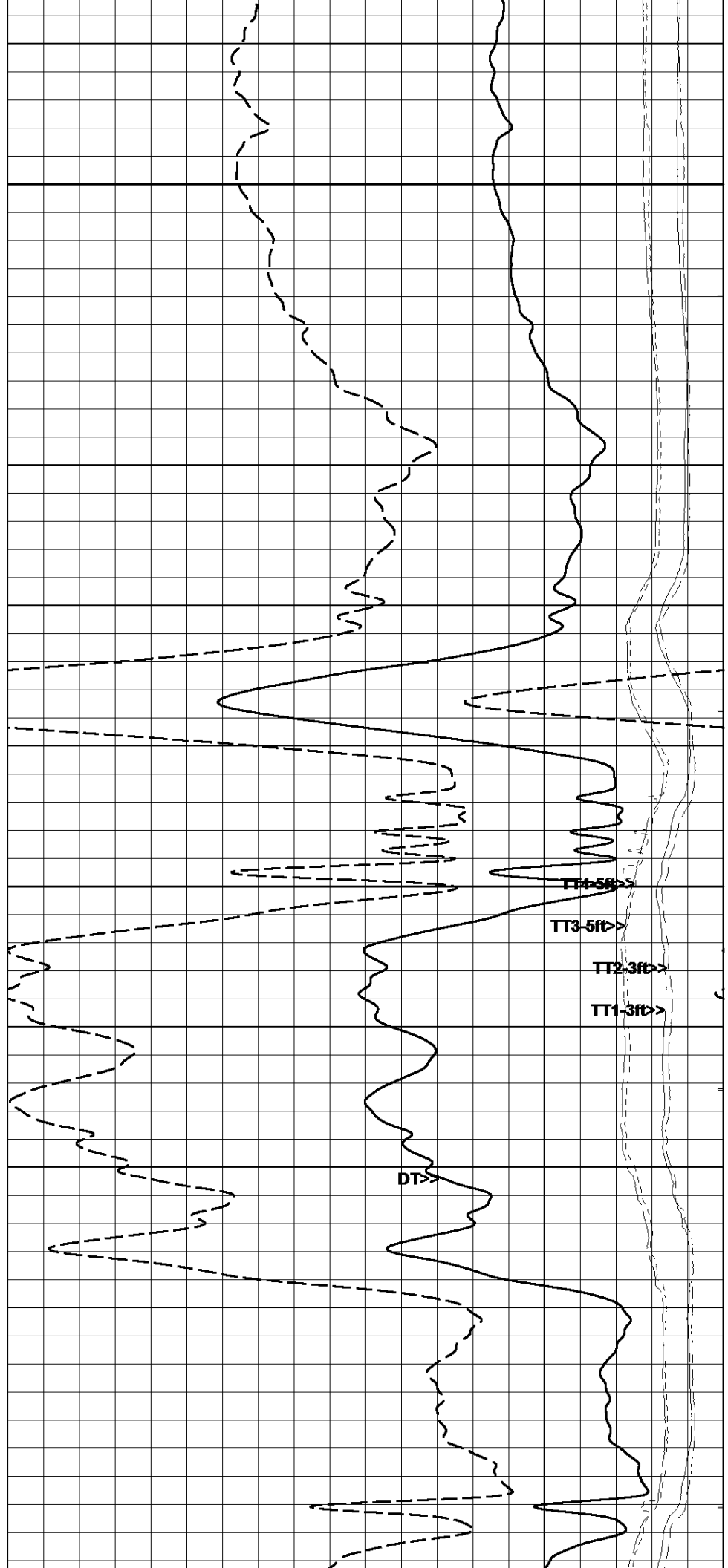
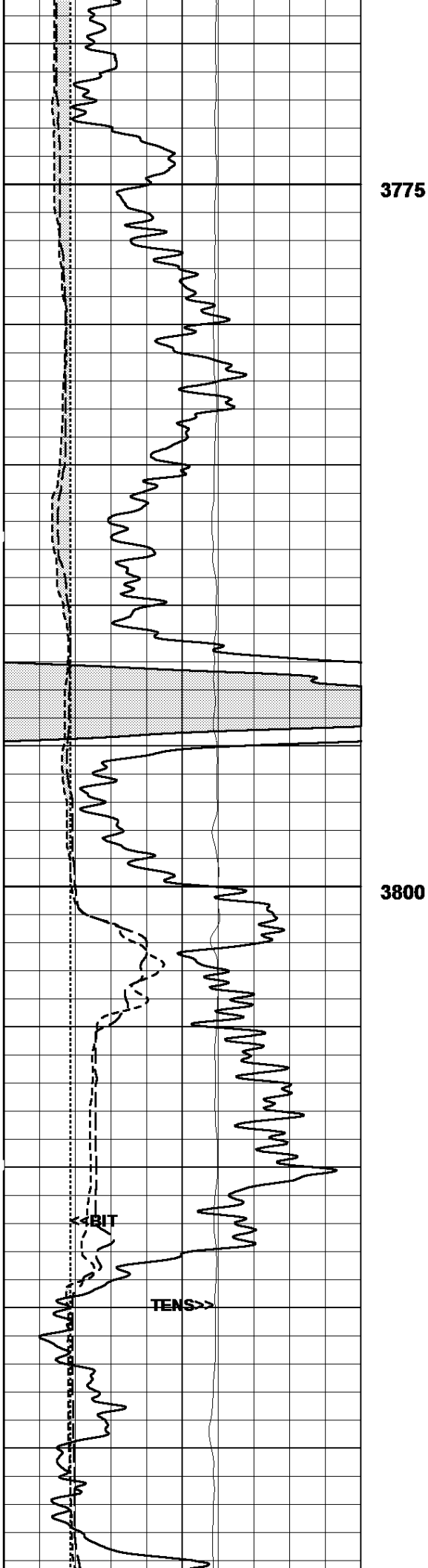




3725

3750

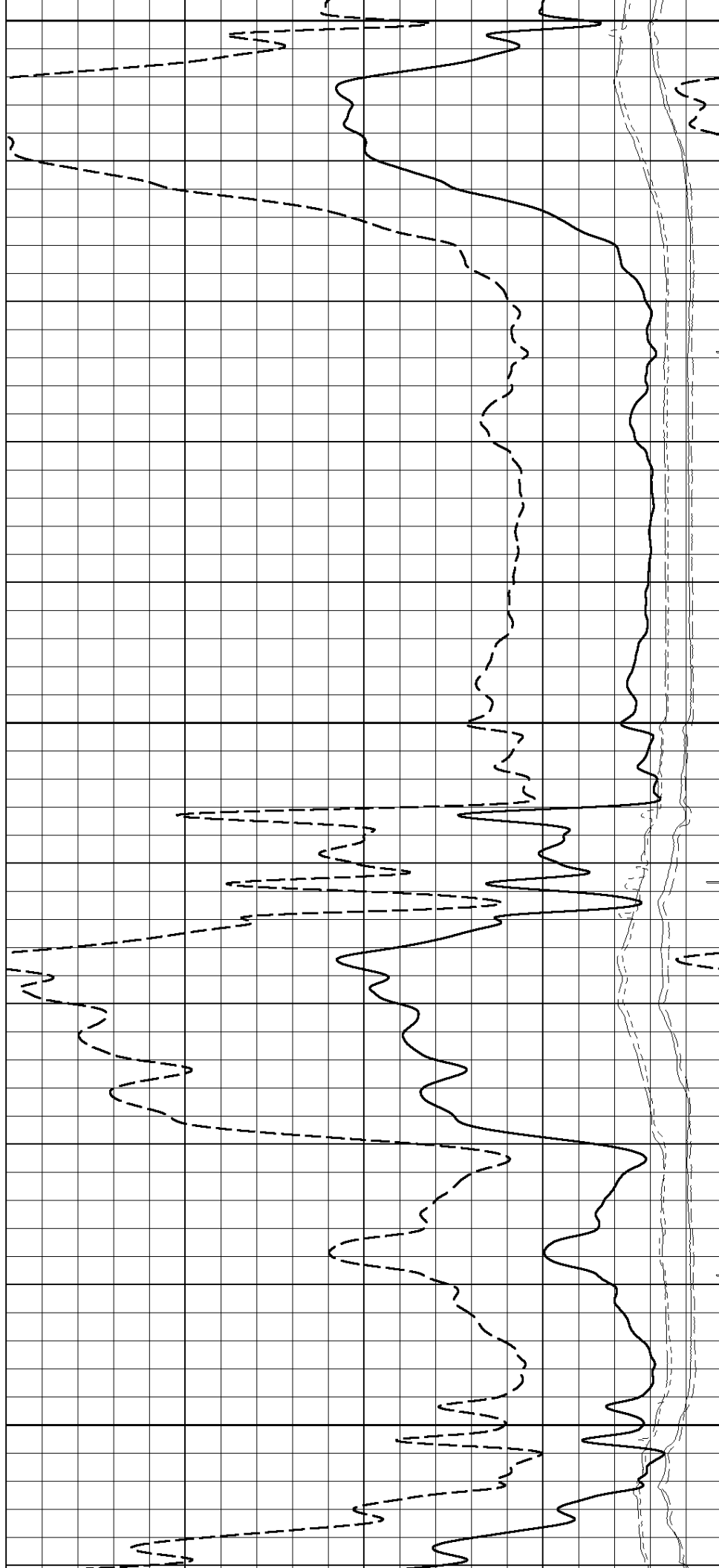
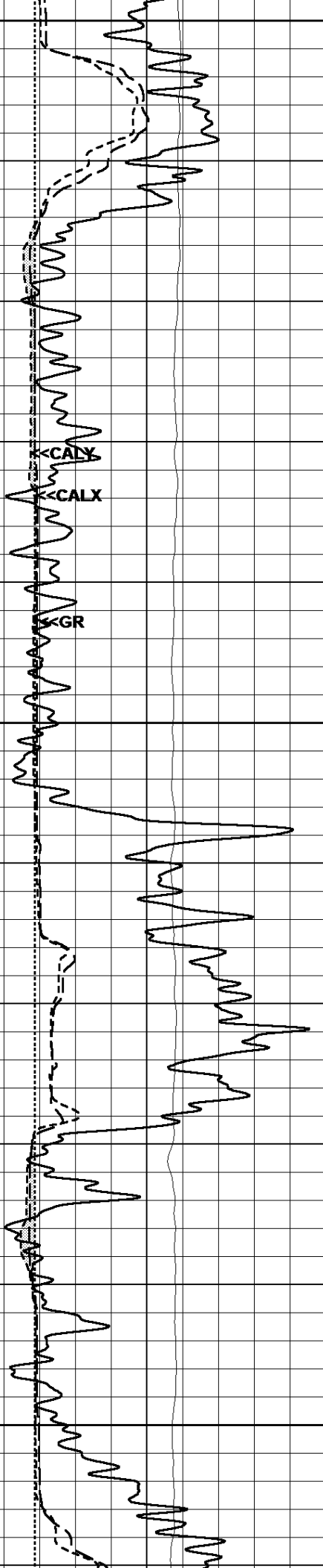


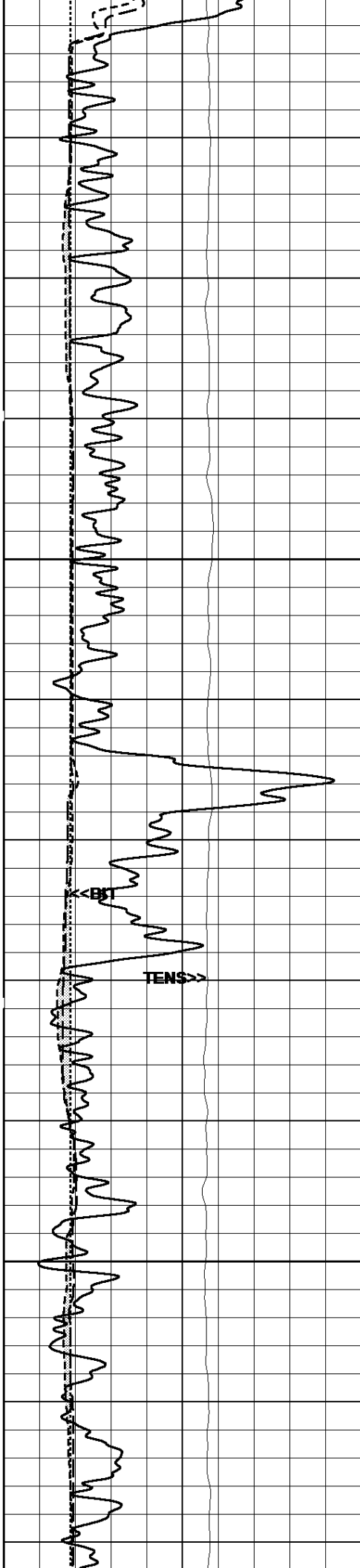


3825

3850

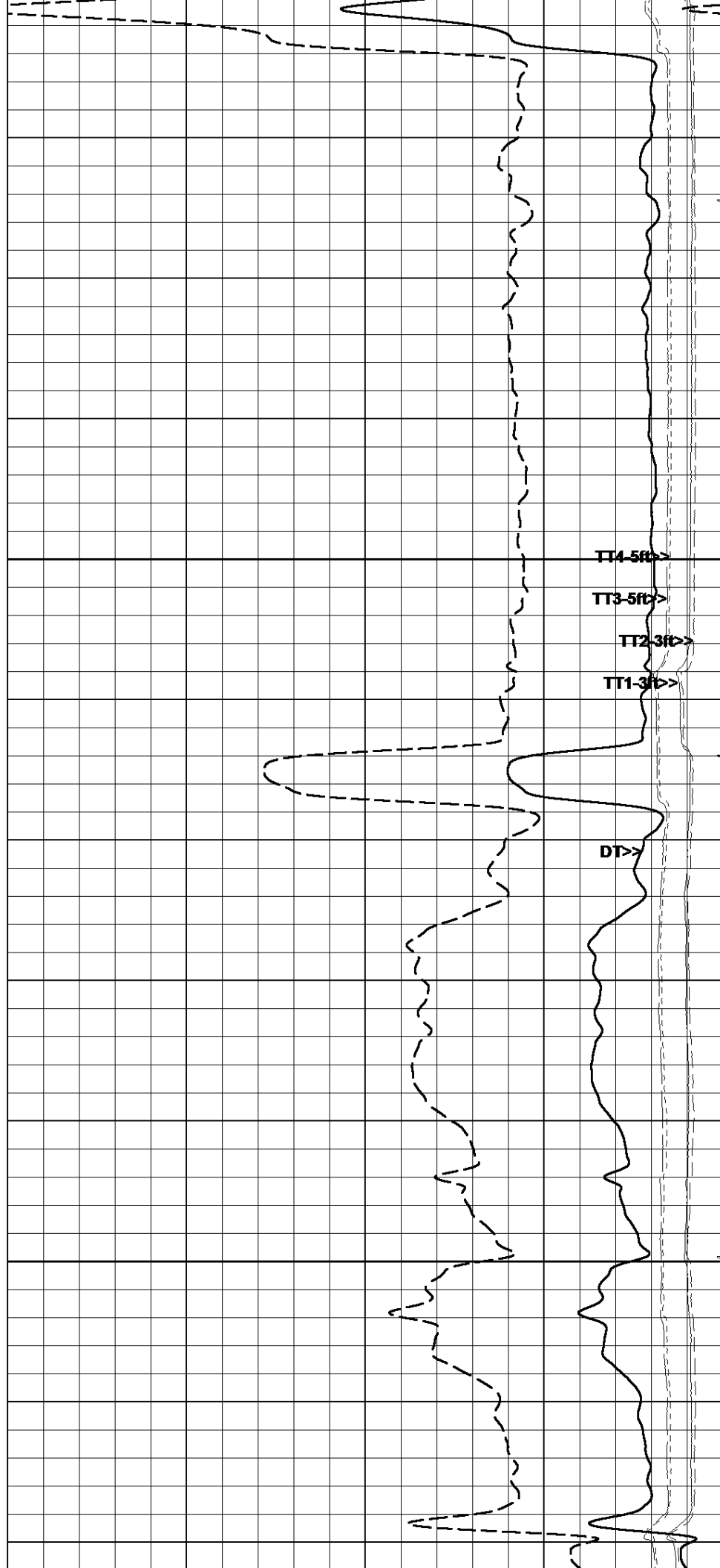
3875





3900

3925



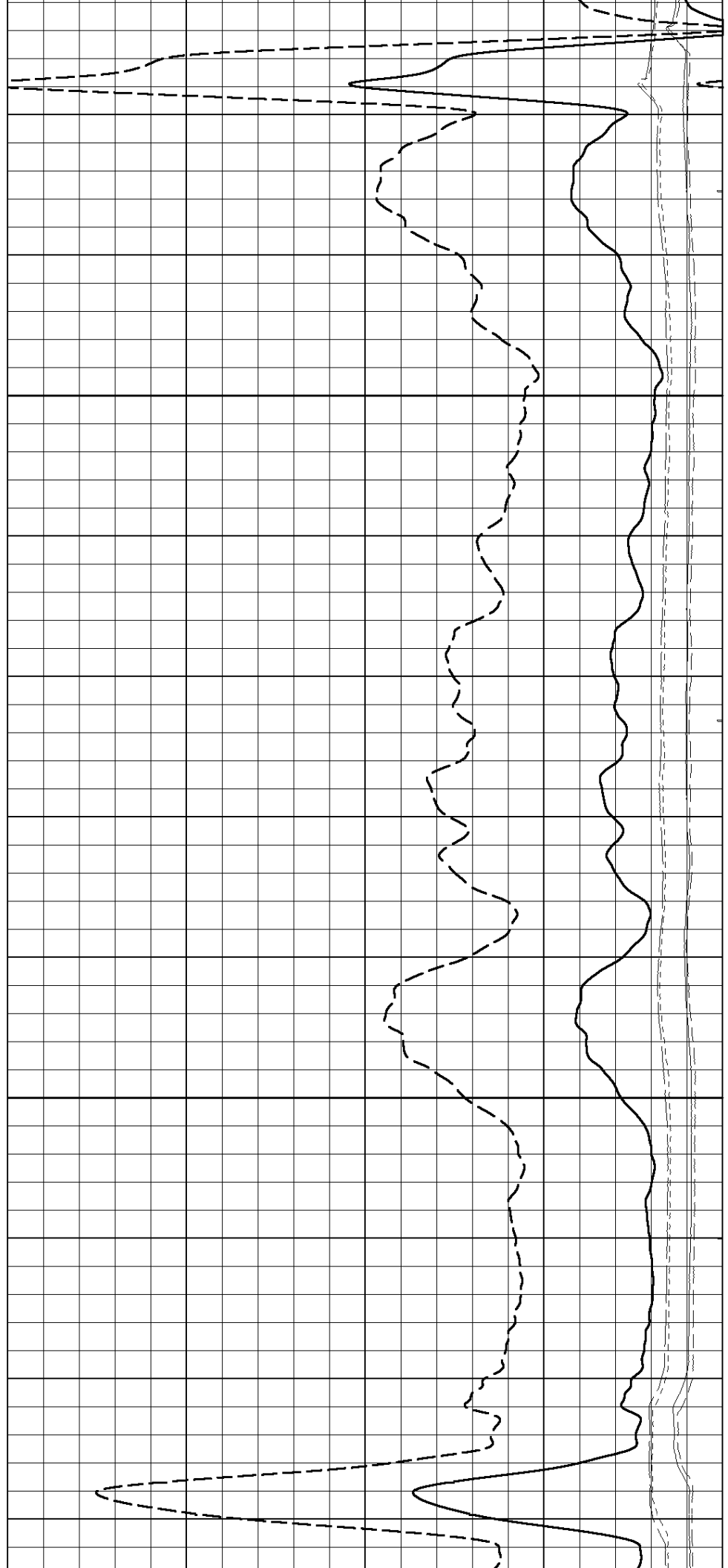
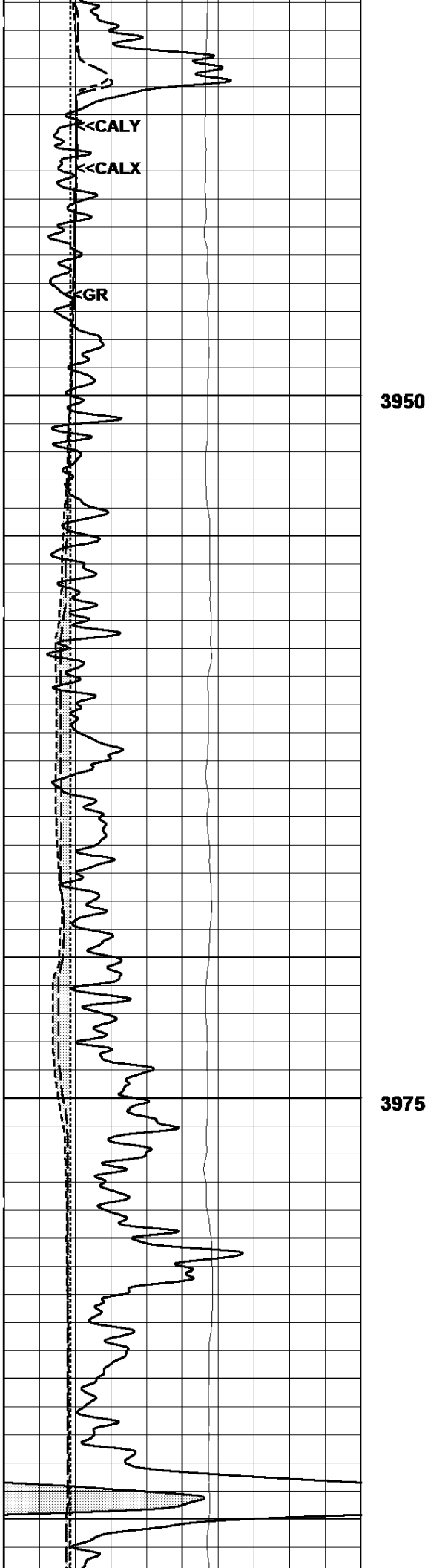
TT4-5ft>

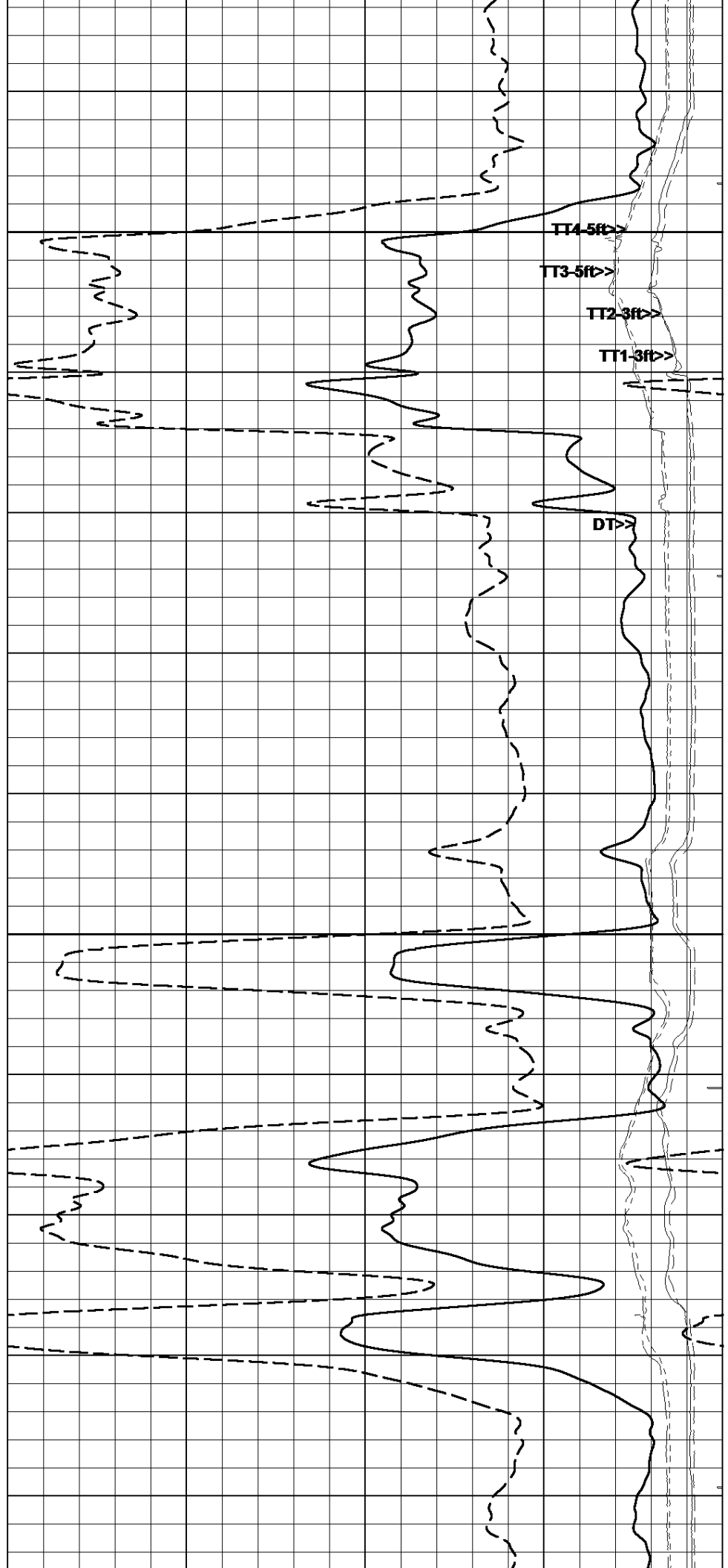
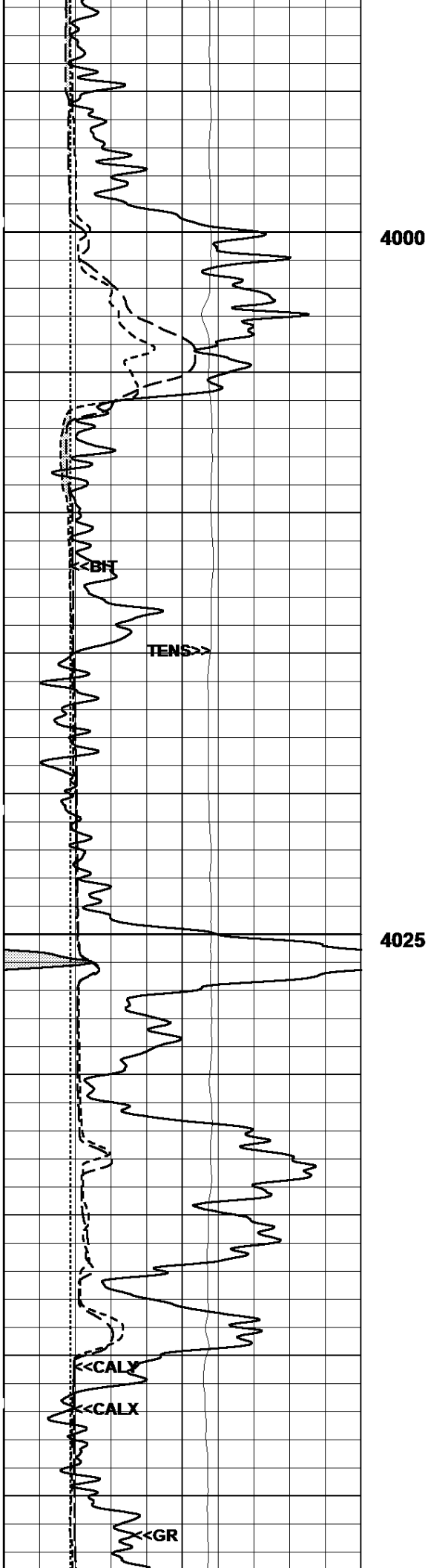
TT3-5ft>

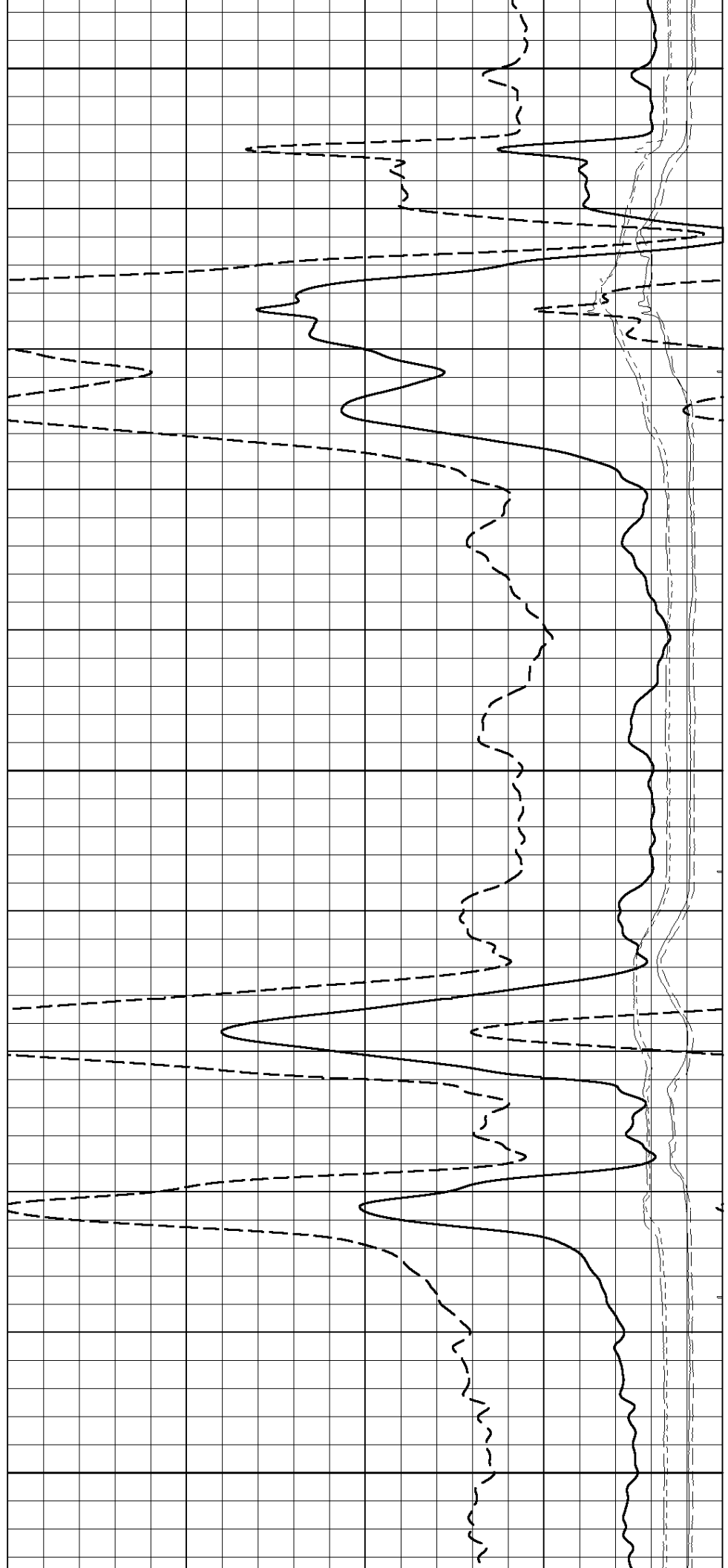
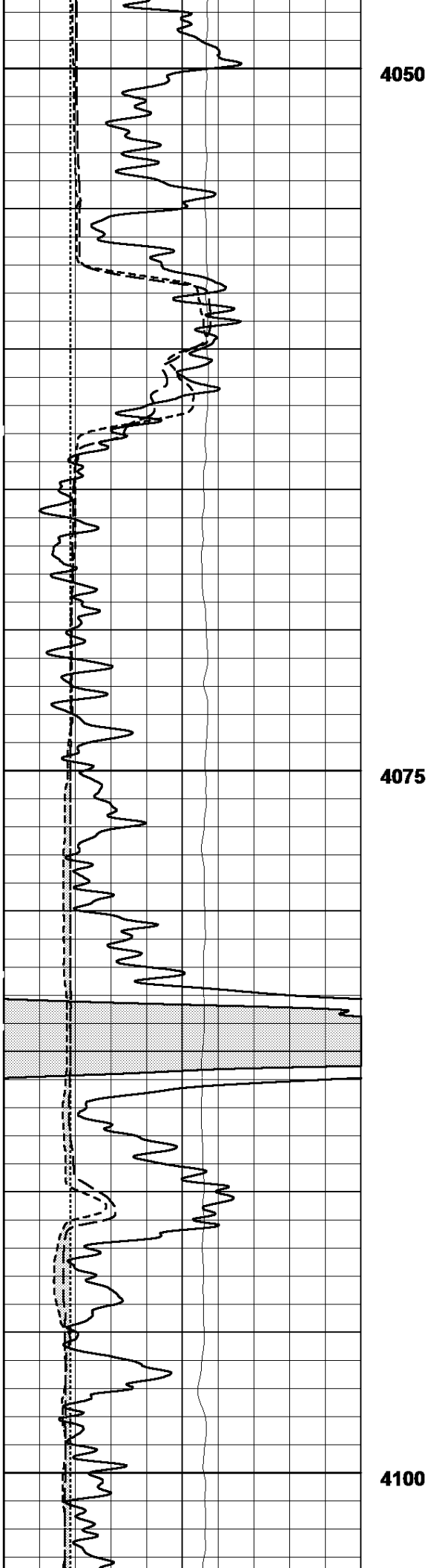
TT2-3ft>

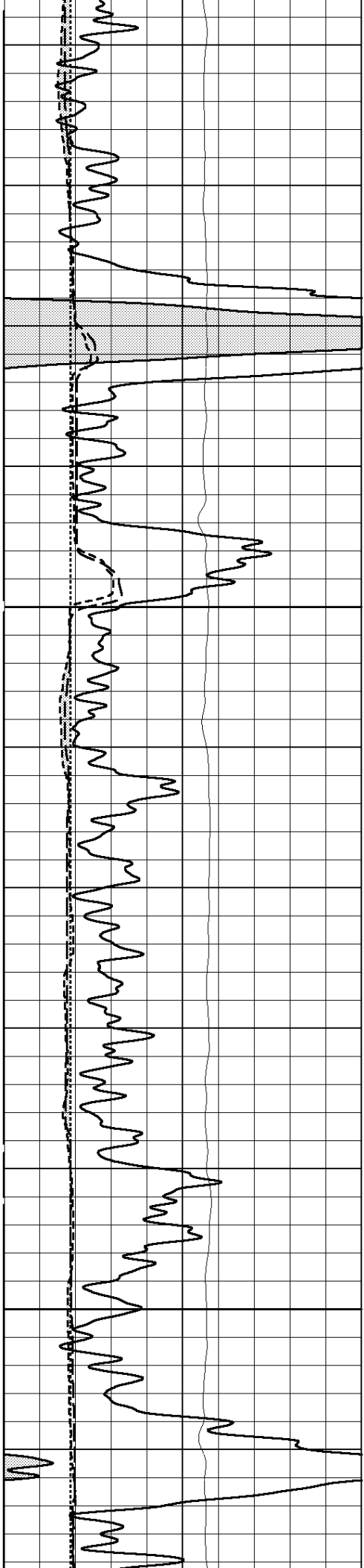
TT1-3ft>

DT>



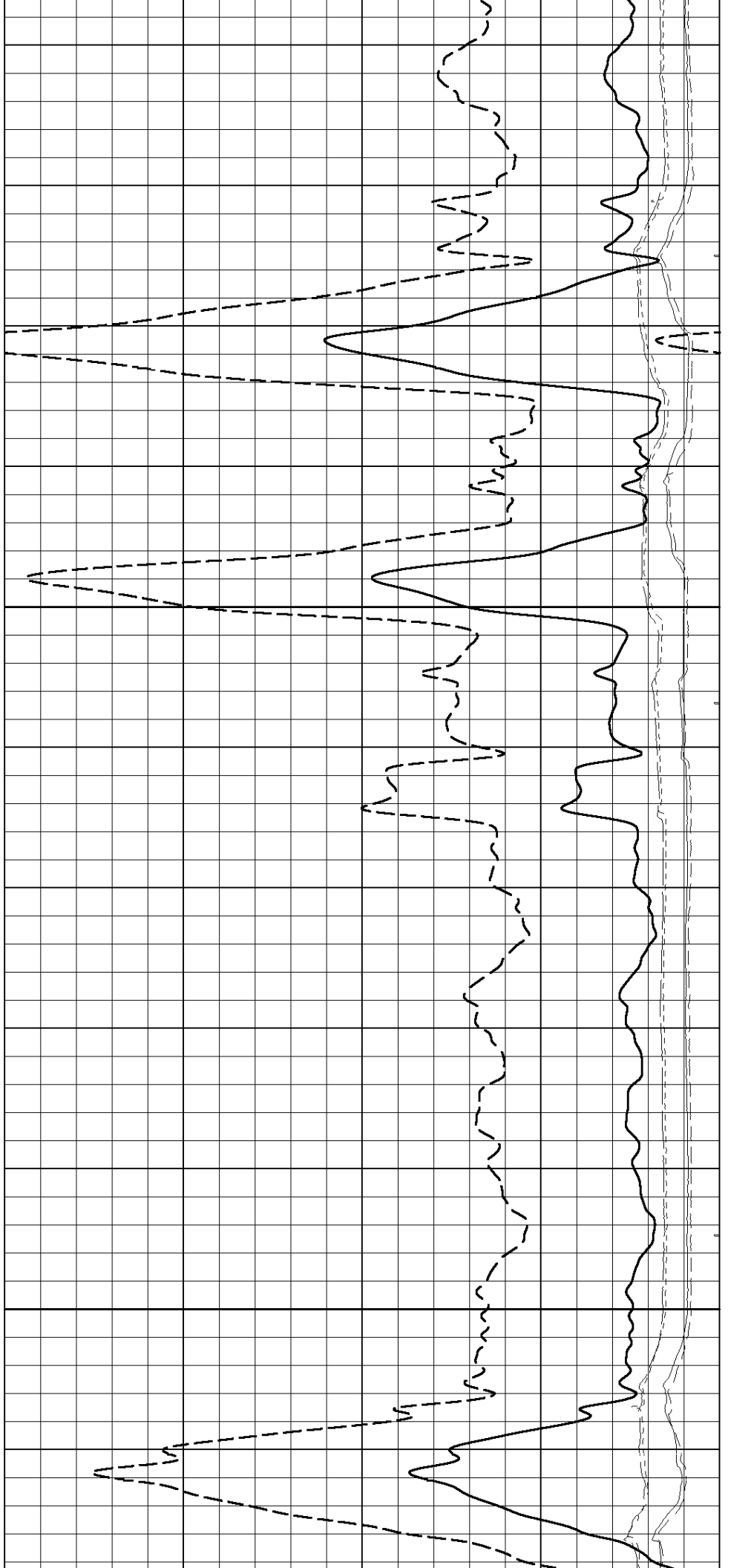


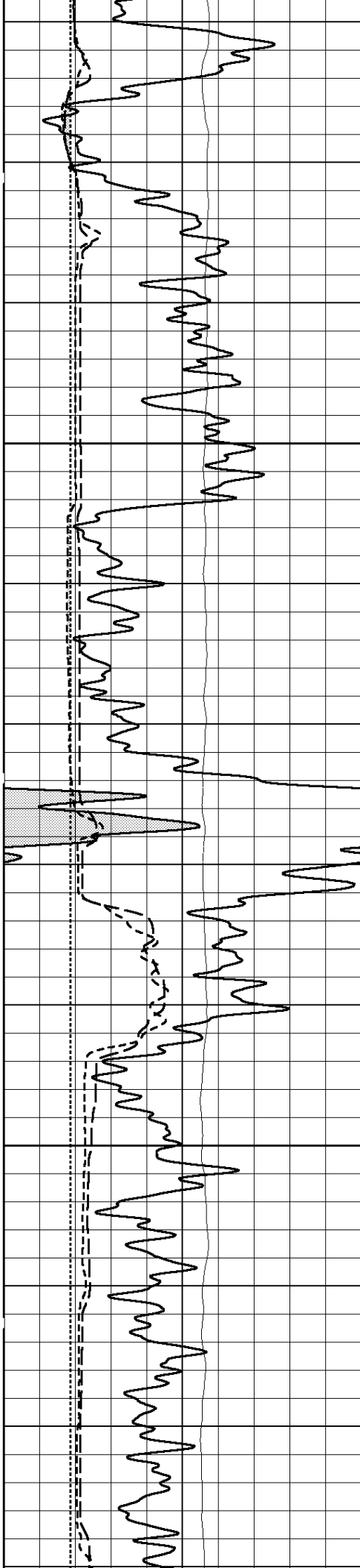




4125

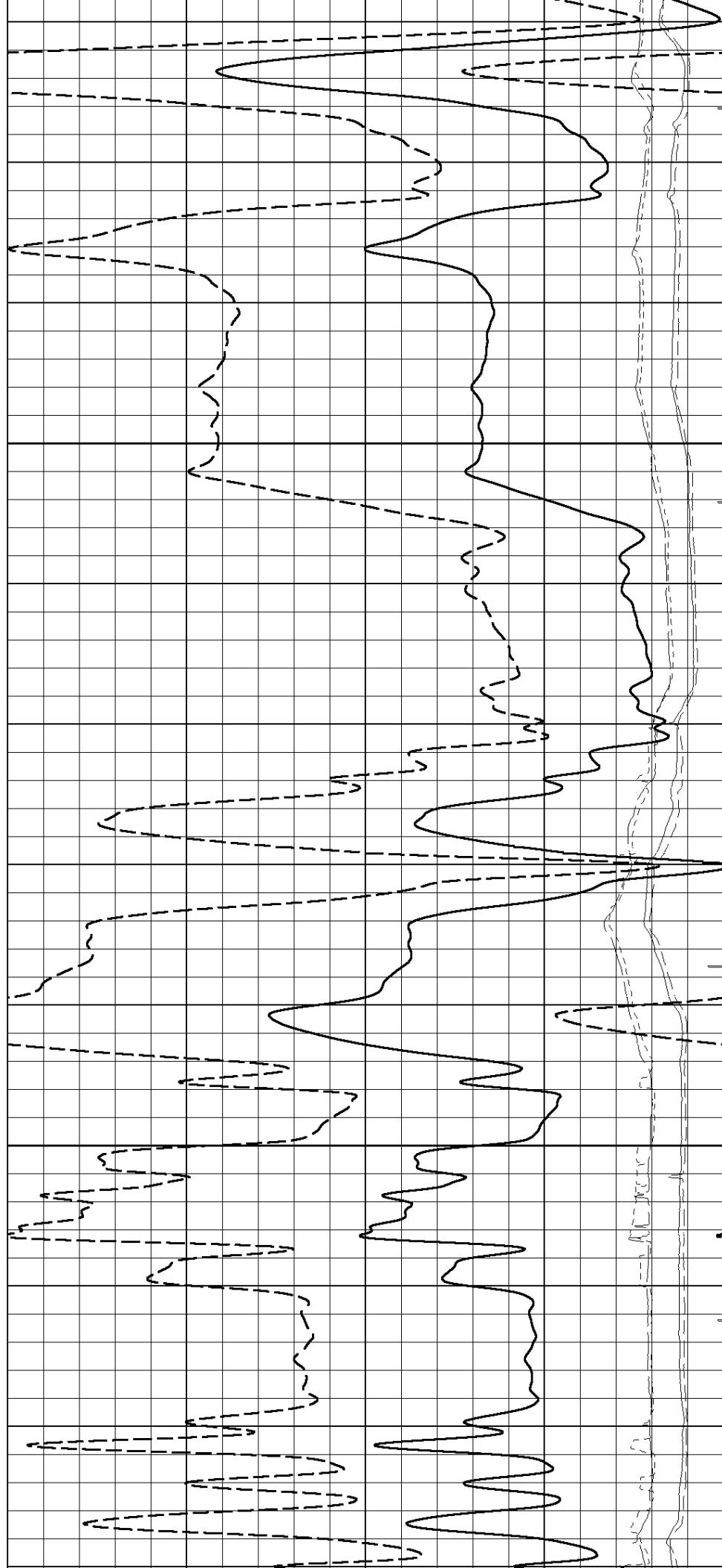
4150

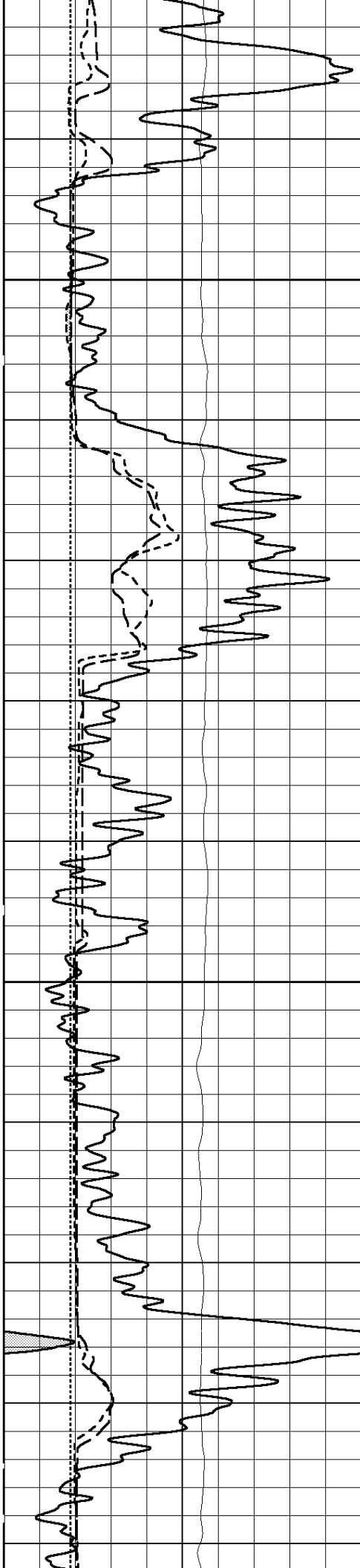




4175

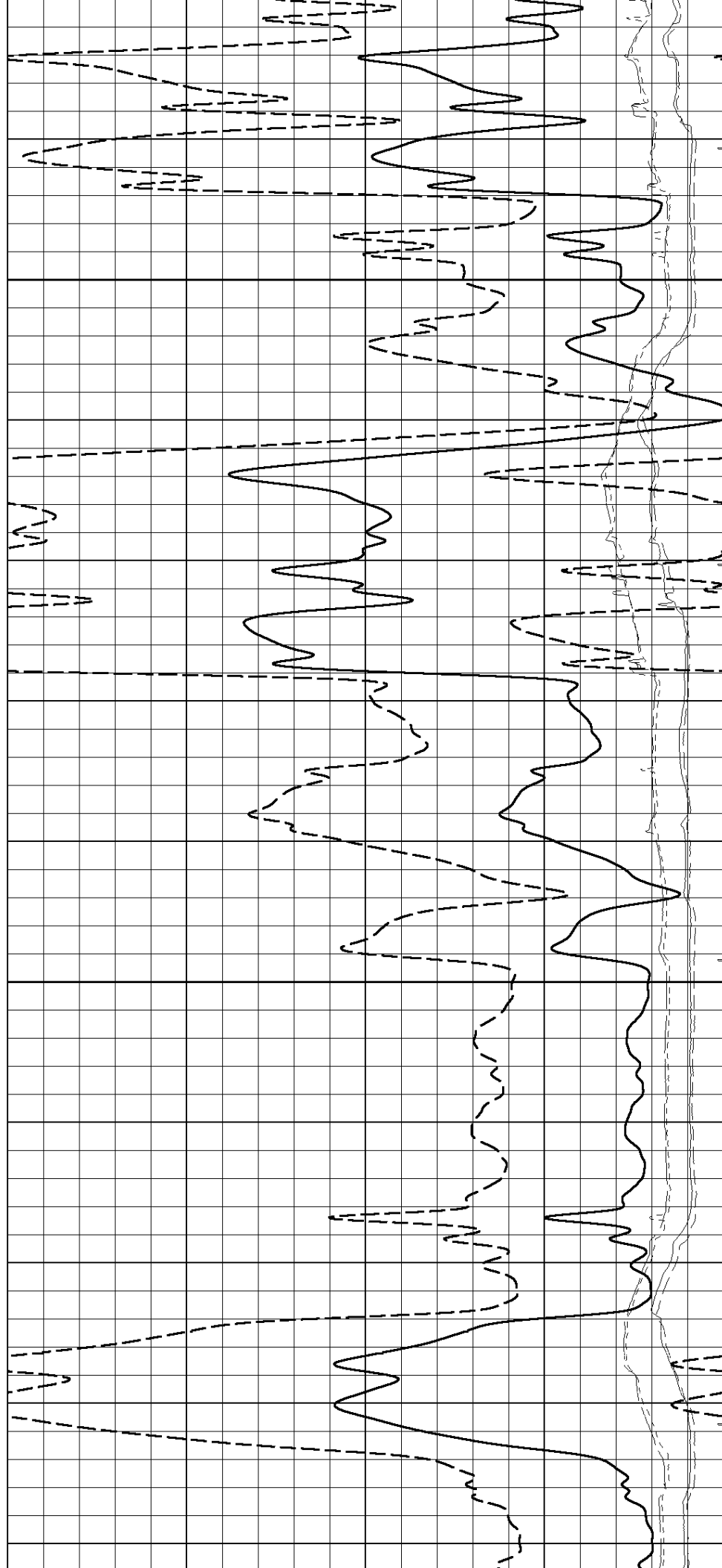
4200

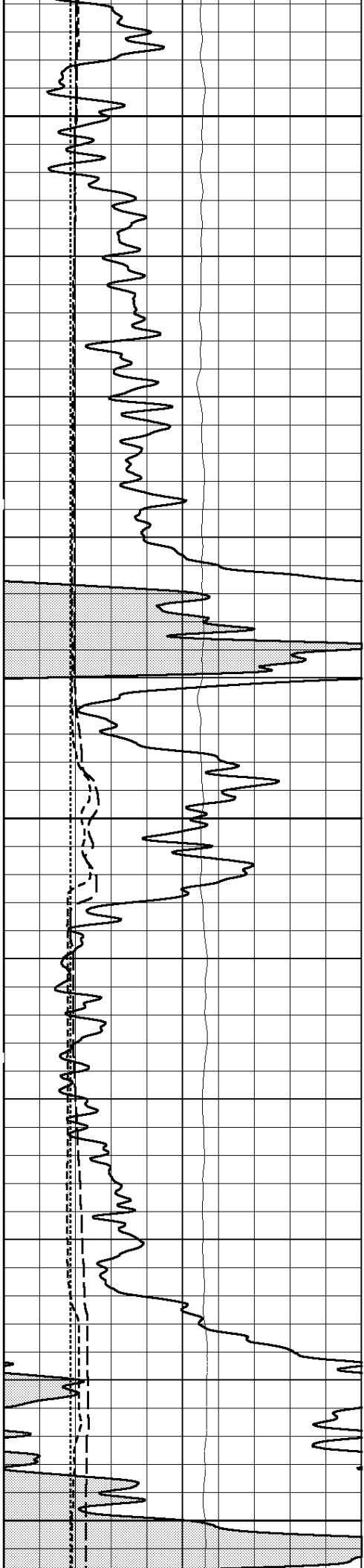




4225

4250

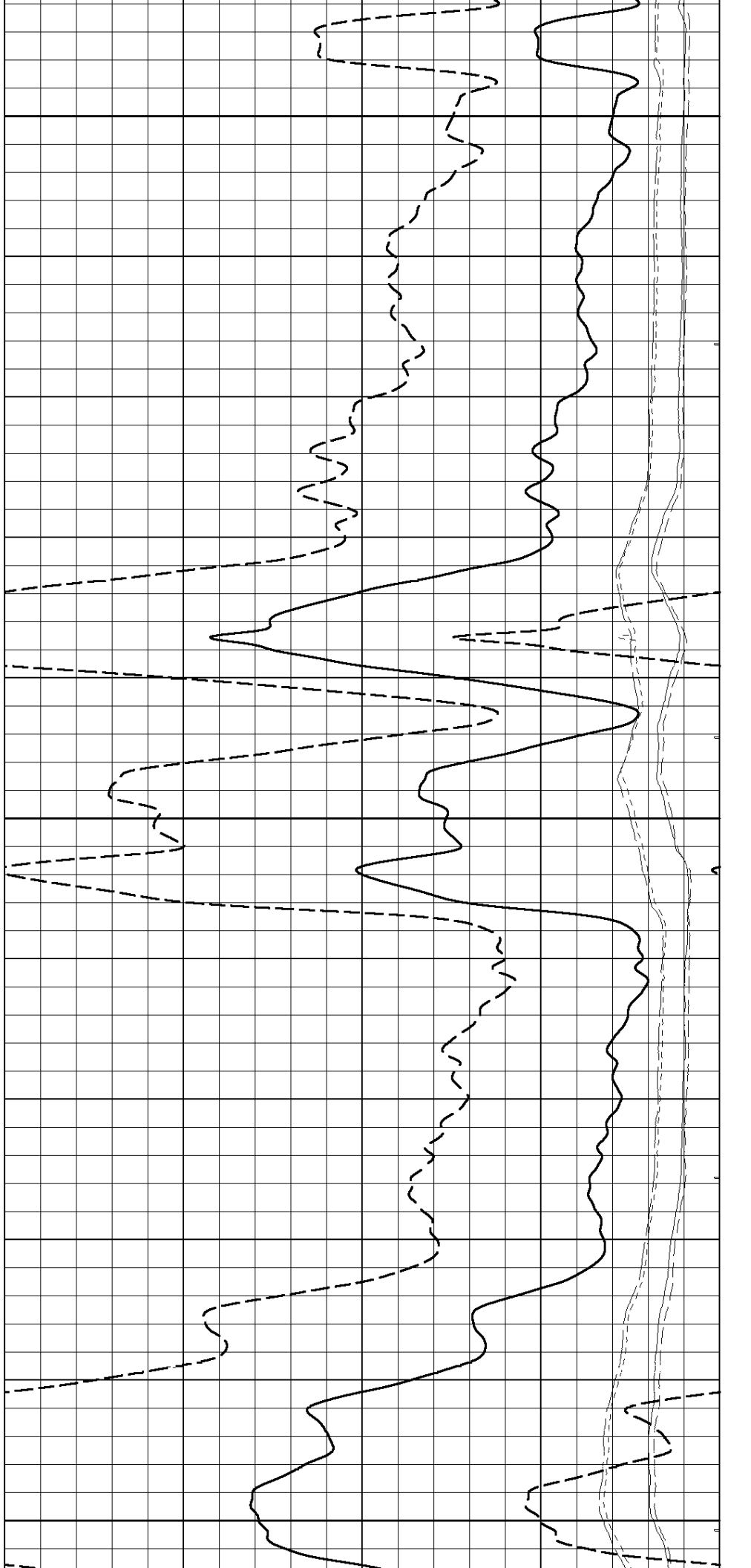


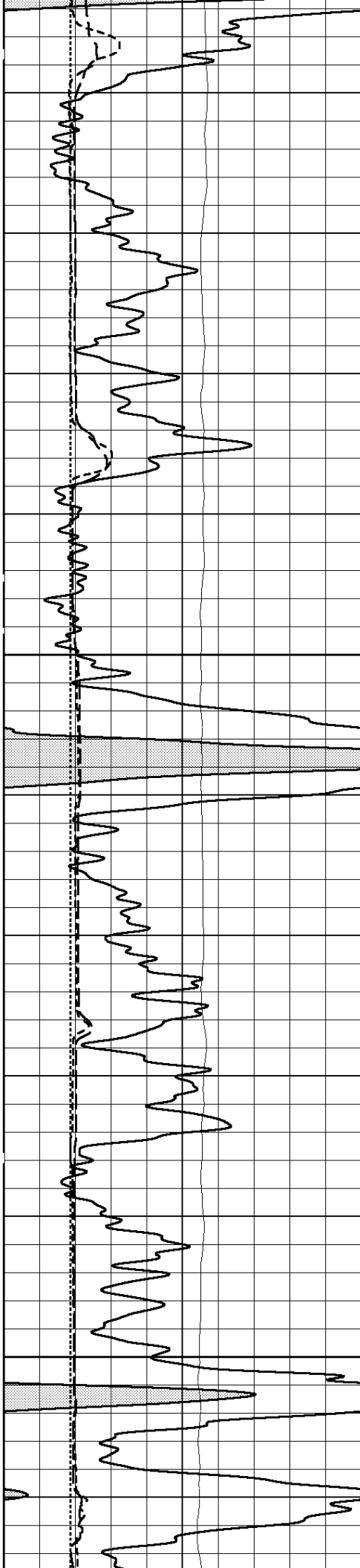


4275

4300

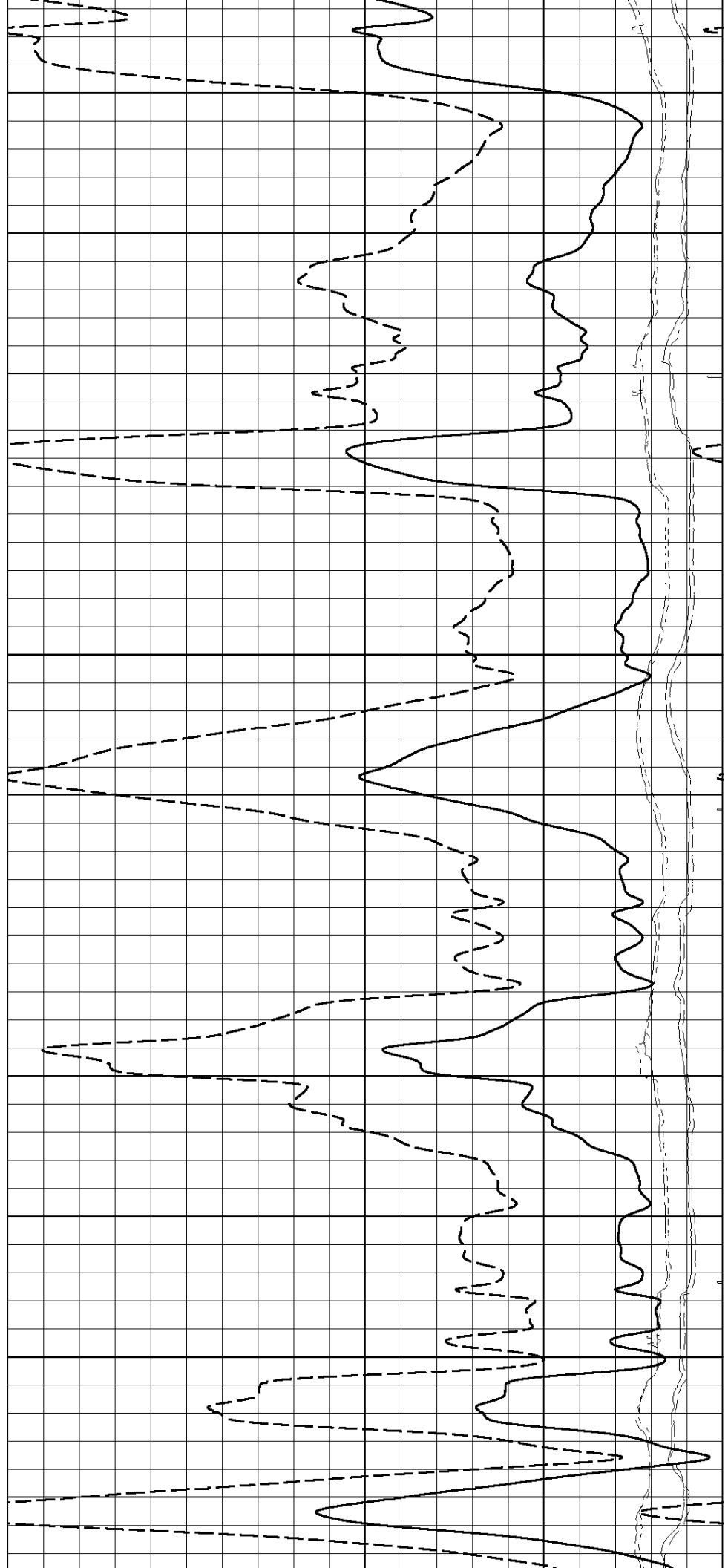
4325

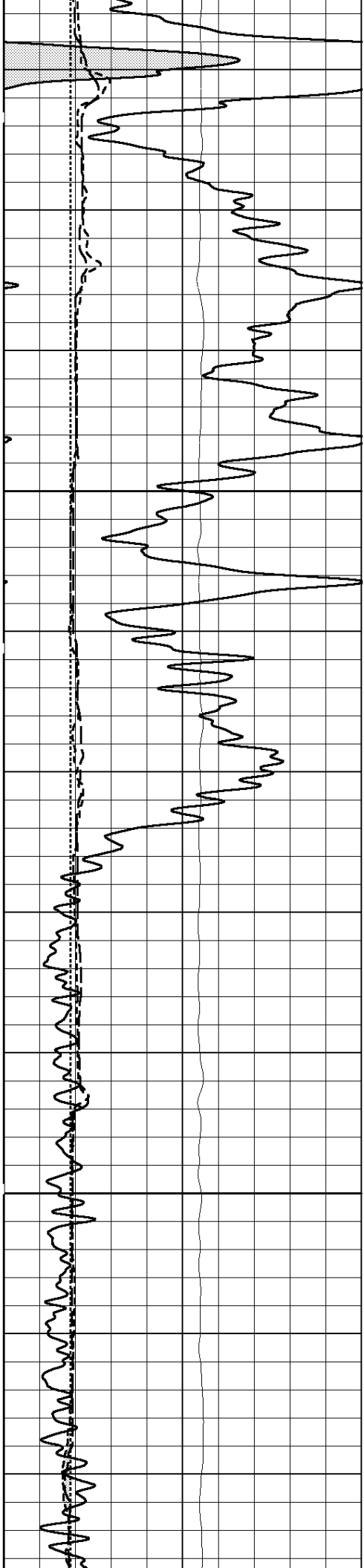




4350

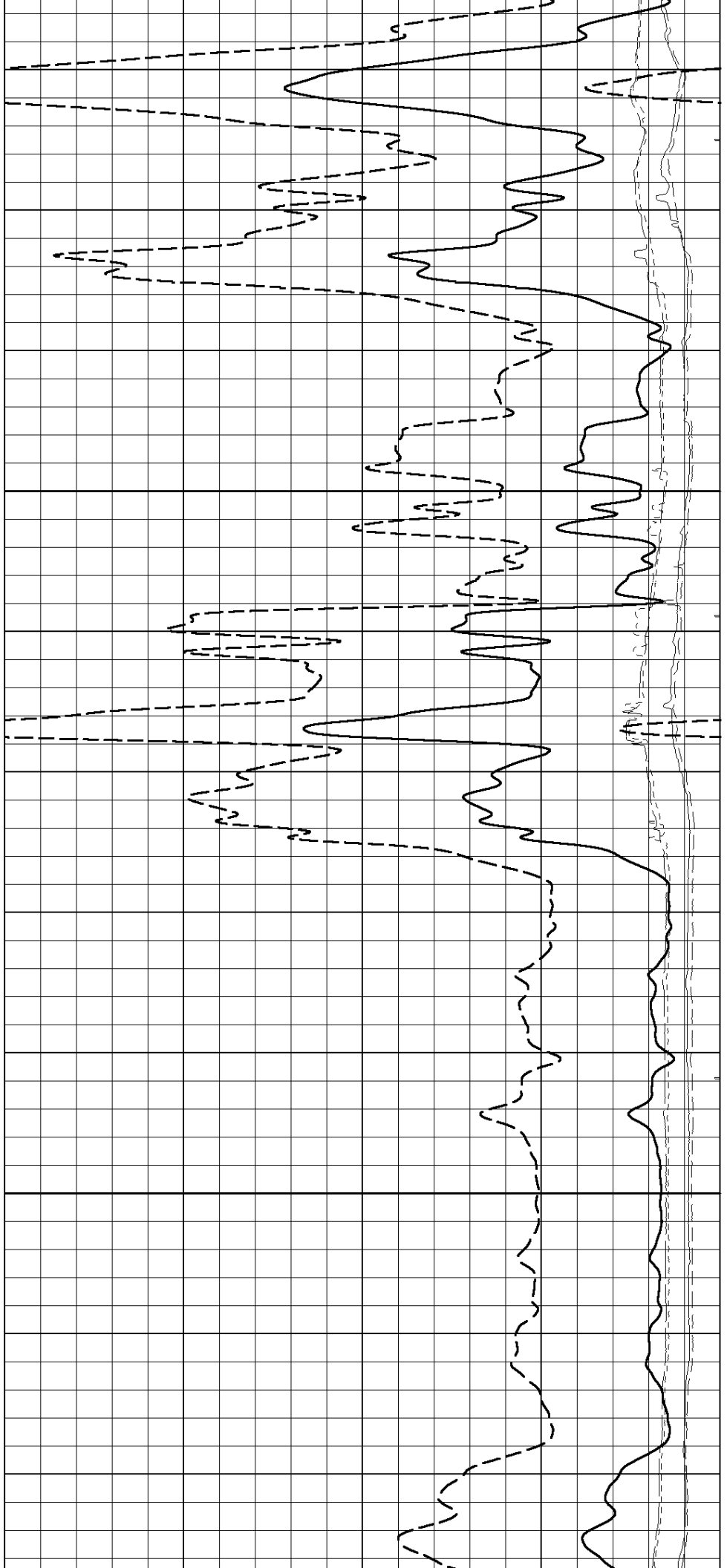
4375

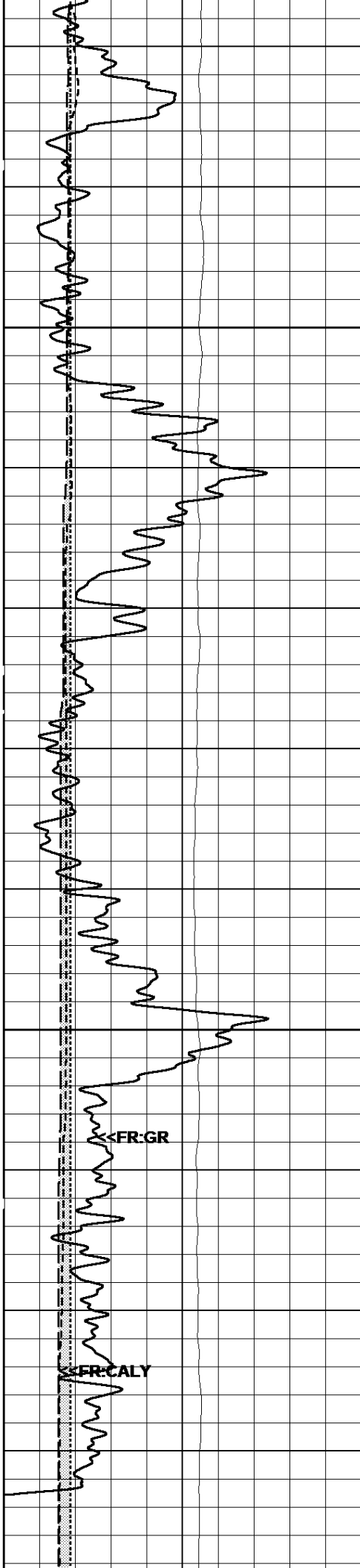




4400

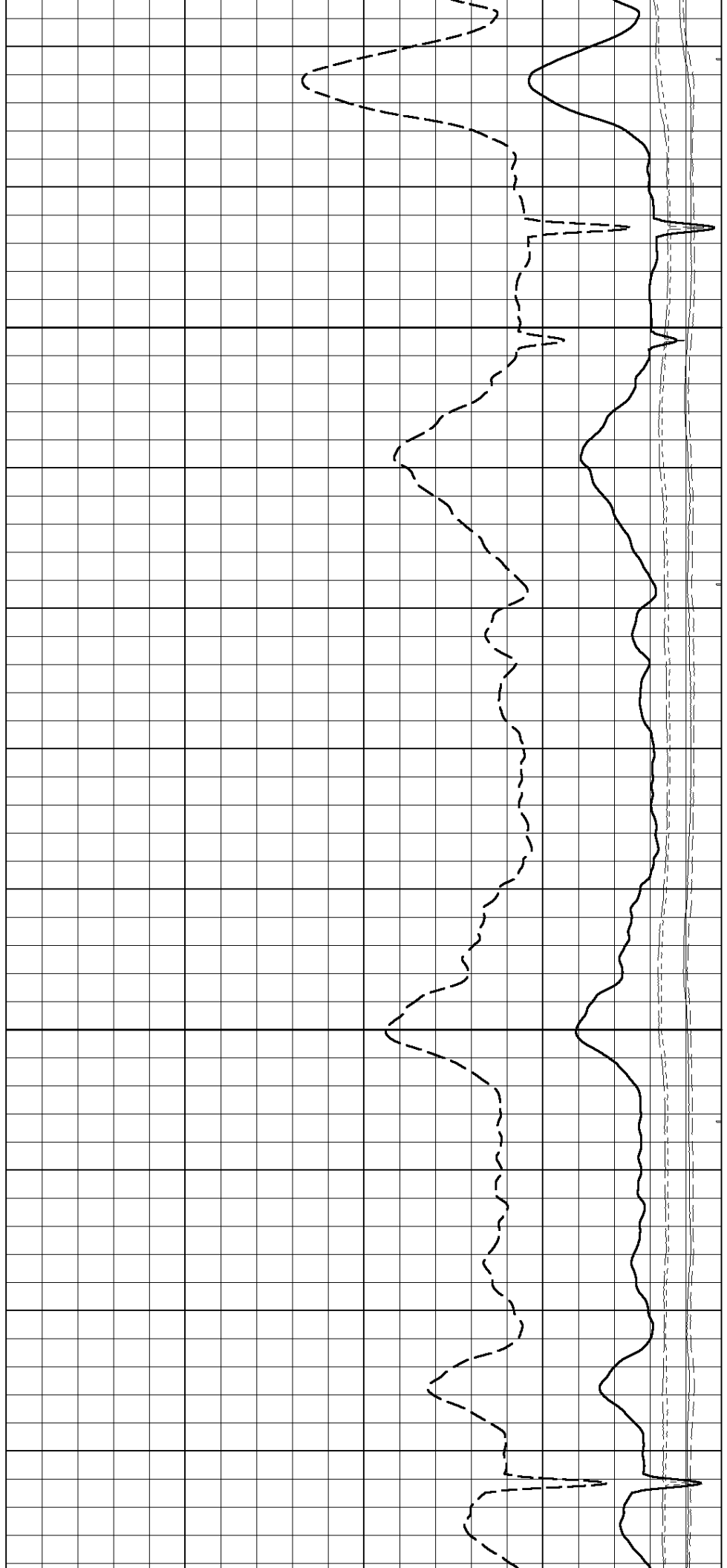
4425

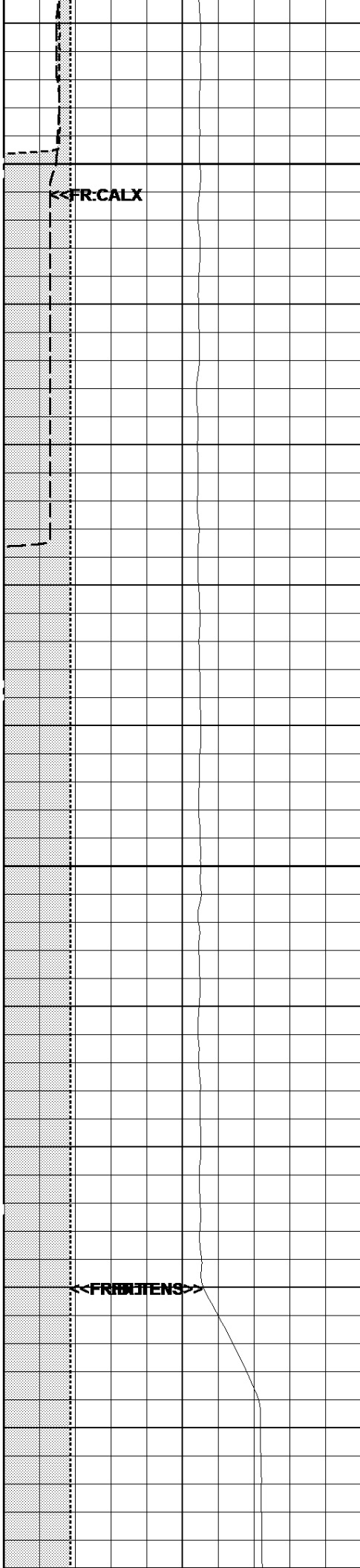




4450

4475

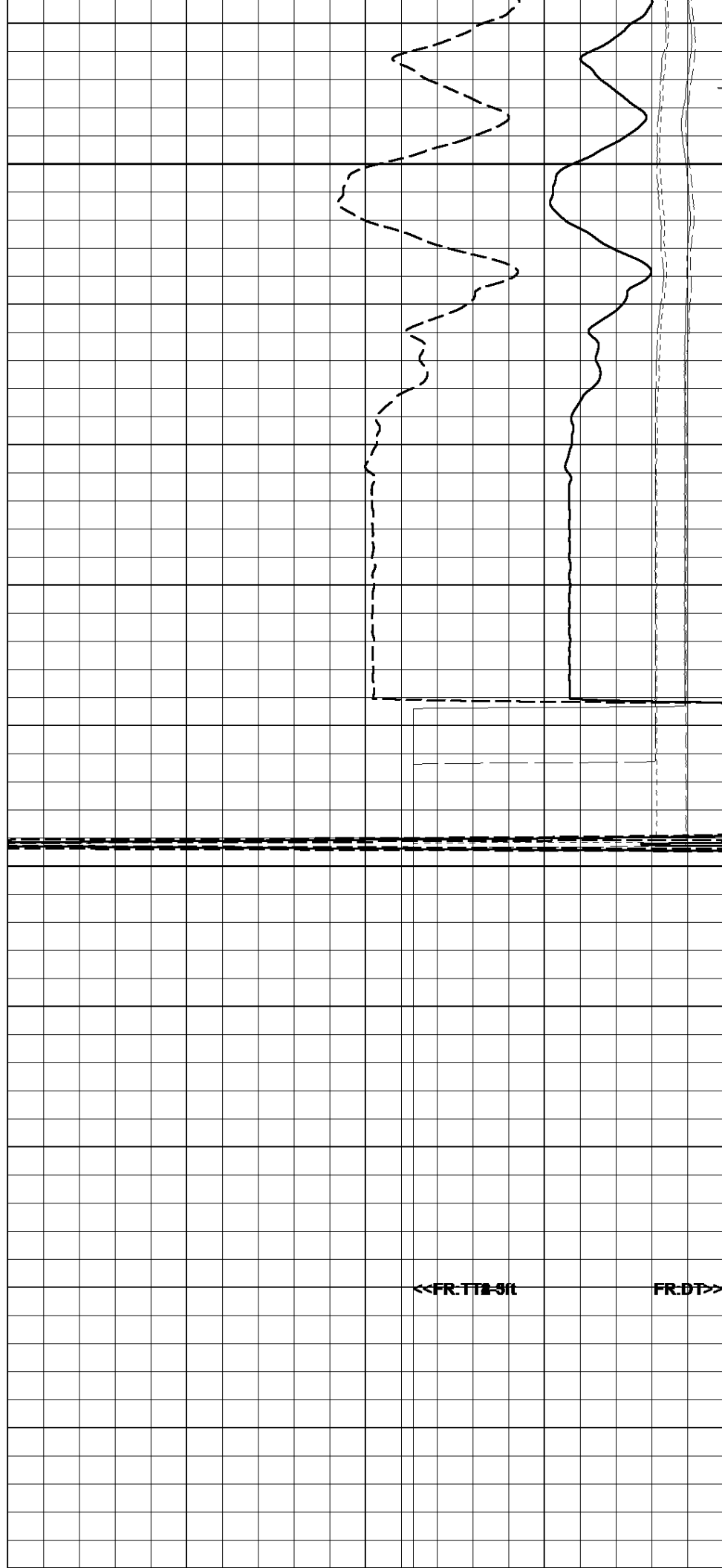




4500

4525

TD



4550																													
Gamma Ray (GR)										Delta T (DT)																			
0. API 150.										140. usecs/ft 40.																			
6. X-Caliper (CALX) 16.										30. Sonic Porosity (SPHI) 10.																			
6. Y-Caliper (CALY) 16.										1500. TT (TT1-3ft) 0.																			
5000. Tension (TENS) 0.										1500. TT (TT2-3ft) 0.																			
6. Bit Size (BIT) 16.										1500. TT (TT3-5ft) 0.																			
										1500. TT (TT4-5ft) 0.																			
08/07/2015										HIGH DEFINITION PASS - LIMESTONE (20"/100ft)										Log UP - (VER 11.19)									
17:27:20 => Start Time																				Start Depth=> 4552.75 Feet									

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	RL4102

MASTER CALIBRATIONS

	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1969.329 - raw	4042.166 - raw	0.002 - gain 2.200 - off	M/D/Y> 7/8/2015	H:M:S> 14:25:21

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	K3 OIL & GAS OPERATING COMPANY
Well	EATON #2-10

Well	EATON #3-18
Field	WILDCAT
County	LANE
State	KANSAS



BHC SONIC
GAMMA RAY
X-Y CALIPER