

Company **MIDWESTERN EXPLORATION, LLC.**
Well **GOOCH #1-8**
Field **GOOCH**
County **STEVENS**
State **KANSAS**



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

SEC	TWP	RGE	OTHER SERVICES:	
08	35S	35W	DIL	LDT
Location. 940' FNL & 1980' FSL			CNL	MEL
SURF. SAME			ELEVATIONS	
Permanent Datum . Ground Level			K.B.	3002
Log Measured From . Kelly Bushing			G.L.	2990
Drilling Measured From Kelly Bushing			D.F.	3000

Date	03-APR-2013					
Run No.	ONE					
TD Driller	6800	ft.			ft.	
TD RECON	6796	ft.			ft.	
Bot Logged Interval	6795	ft.			ft.	
Top Logged Interval	3400	ft.			ft.	
Casing Depth Driller	8 5/8	in.	@	1660	in.	@
Casing Depth RECON	8 5/8	in.	@	1662	in.	@
Bit Size	7 7/8	in.			in.	
Drilling Fluid Type	LSND					
Density	9.1	ppg	50	sec/qt		
Fluid Loss	PH	7.2	cm3/30min	10.0	strip	
Source Of Sample	Flowline					
RM @ Measured Temp	3.44	Ohmm	@	75	Ohmm	@
RMF @ Measured Temp	2.58	Ohmm	@	75	Ohmm	@
RMC @ Measured Temp	4.30	Ohmm	@	75	Ohmm	@
RM @ MRT	1.93	Ohmm	@	139	Ohmm	@
Max Recorded Temp	139	DegF			DegF	
Time Drilling Stopped	03-APR-2013	08:15				
Time Circulation Stopped	03-APR-2013	17:30				
Time Logger On Bottom	03-APR-2013	22:51				
Unit Num	S407	OKLAHOMA CITY, OK.				
Recorded By	H. GARCIA					
Witnessed By	MR. B. DAUGHERTY					MR. 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 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 DRLG. #6

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE

CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK - 292, BOTTOM MARK - 6698.6
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

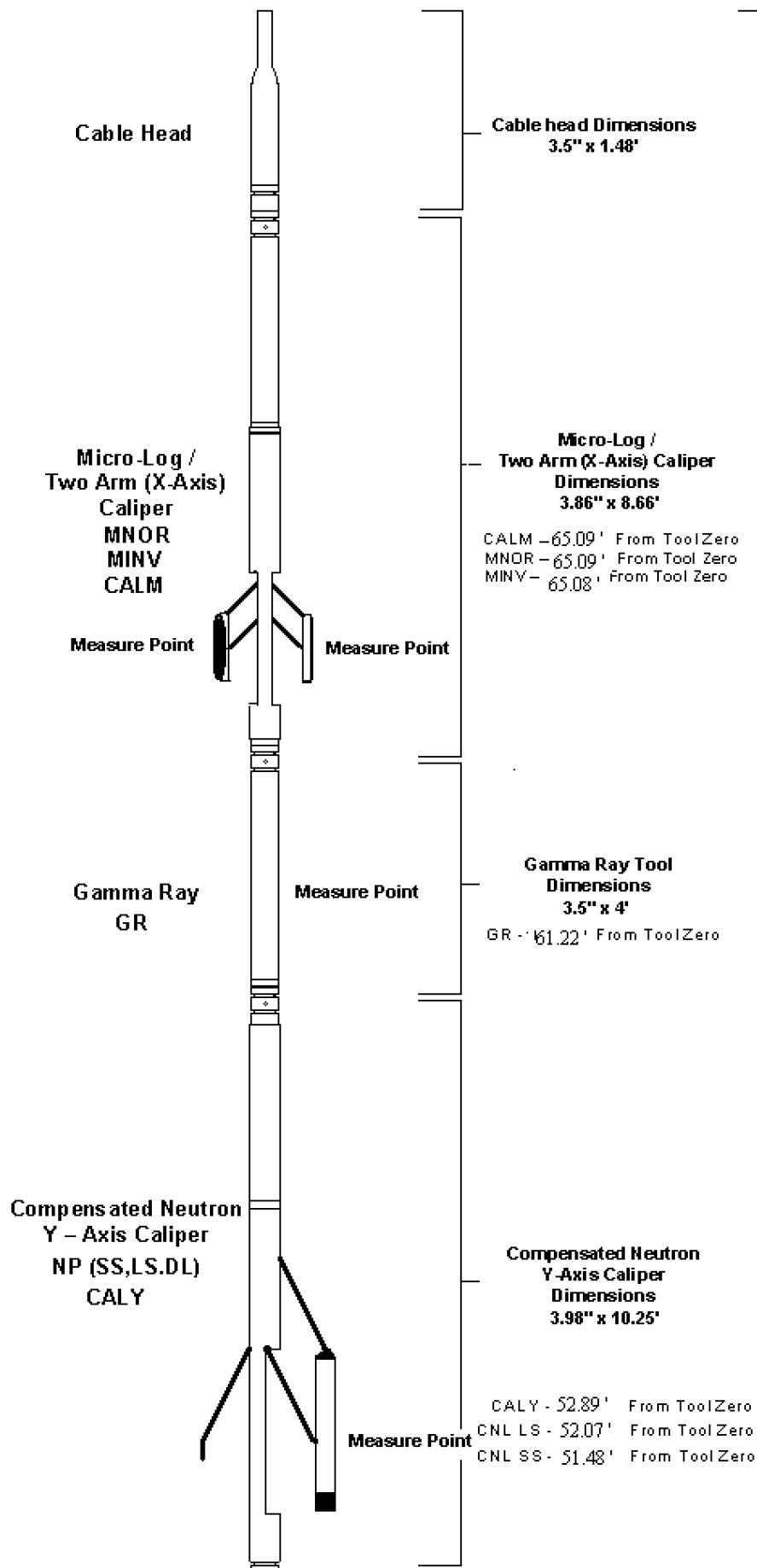
CHLORIDES: 1000 mg/l
LCM: 8 lb/bbl

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

AHV CALCULATED ON 5.5" PROD. CASING

CREW: J. ROSE, M. HAMILTON

**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'

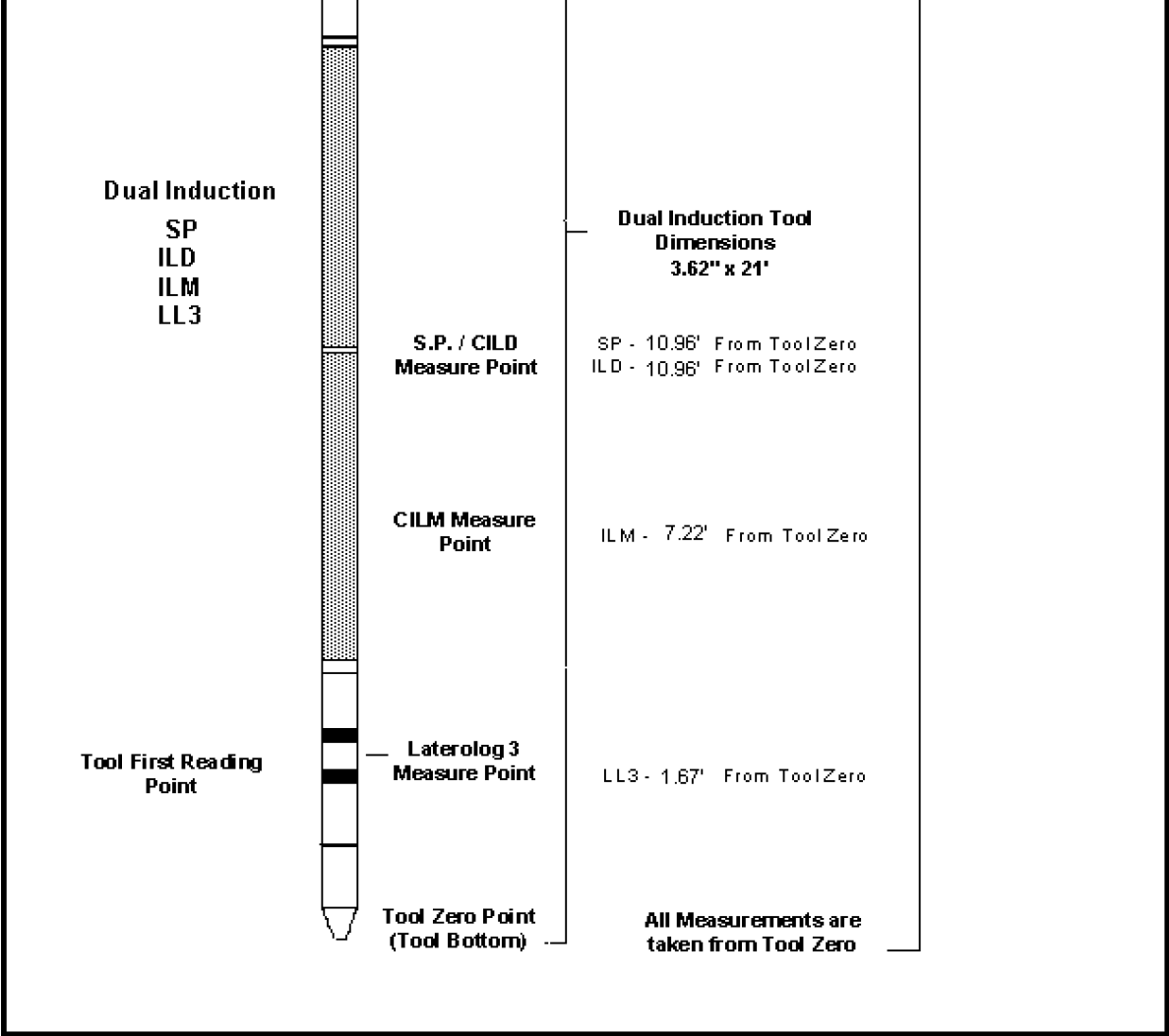
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

R-1
Receiver 1

R-2
Receiver 2

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

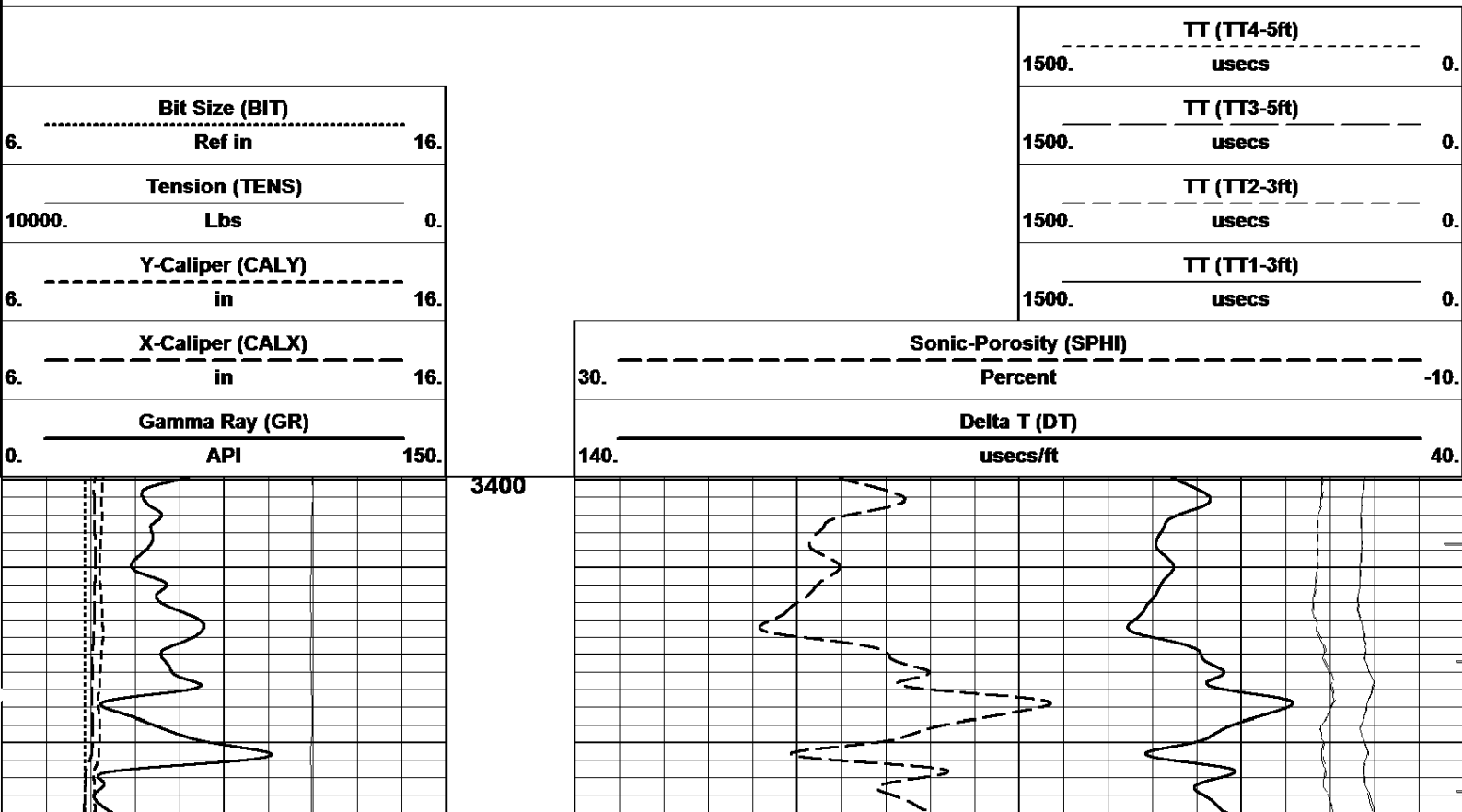
T-2
Transmitter 2



04/04/2013
01:25:28 => End Time

MAIN PASS (5"/100Ft)

Log UP - (VER 11.08)
End Depth=> 3399.90 Feet



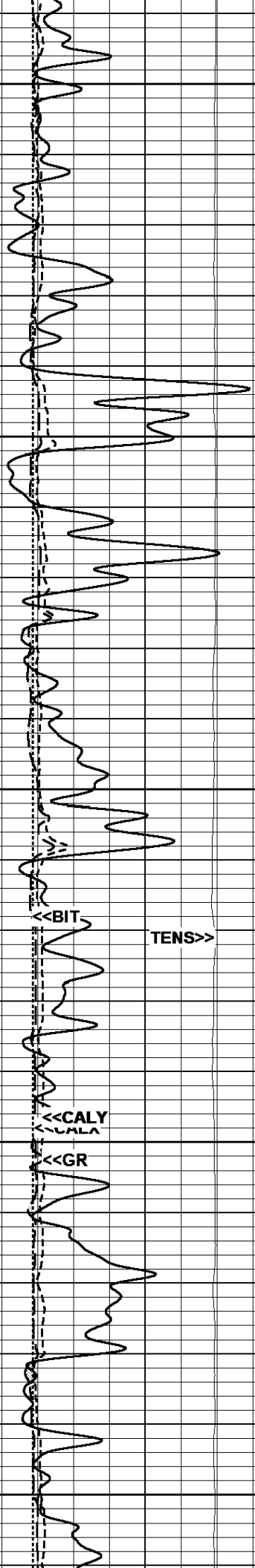
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3500

3550

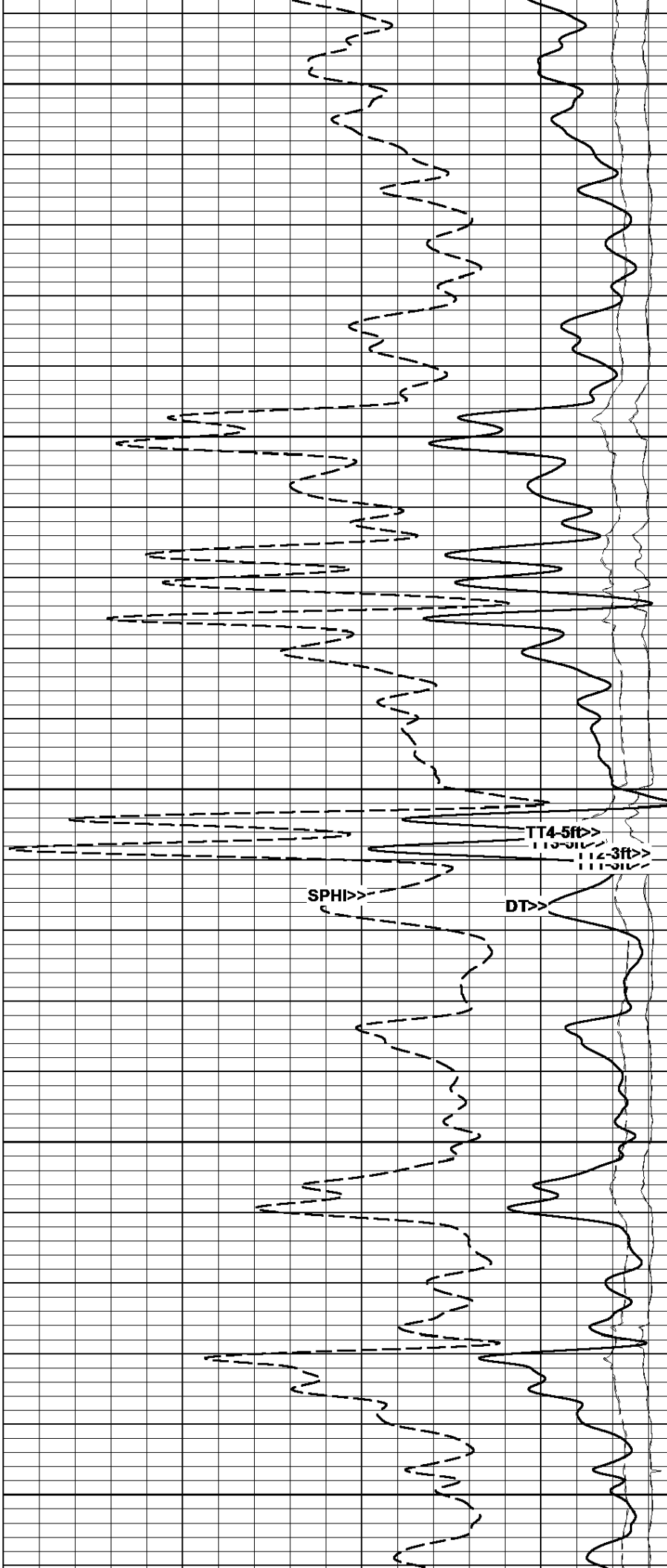
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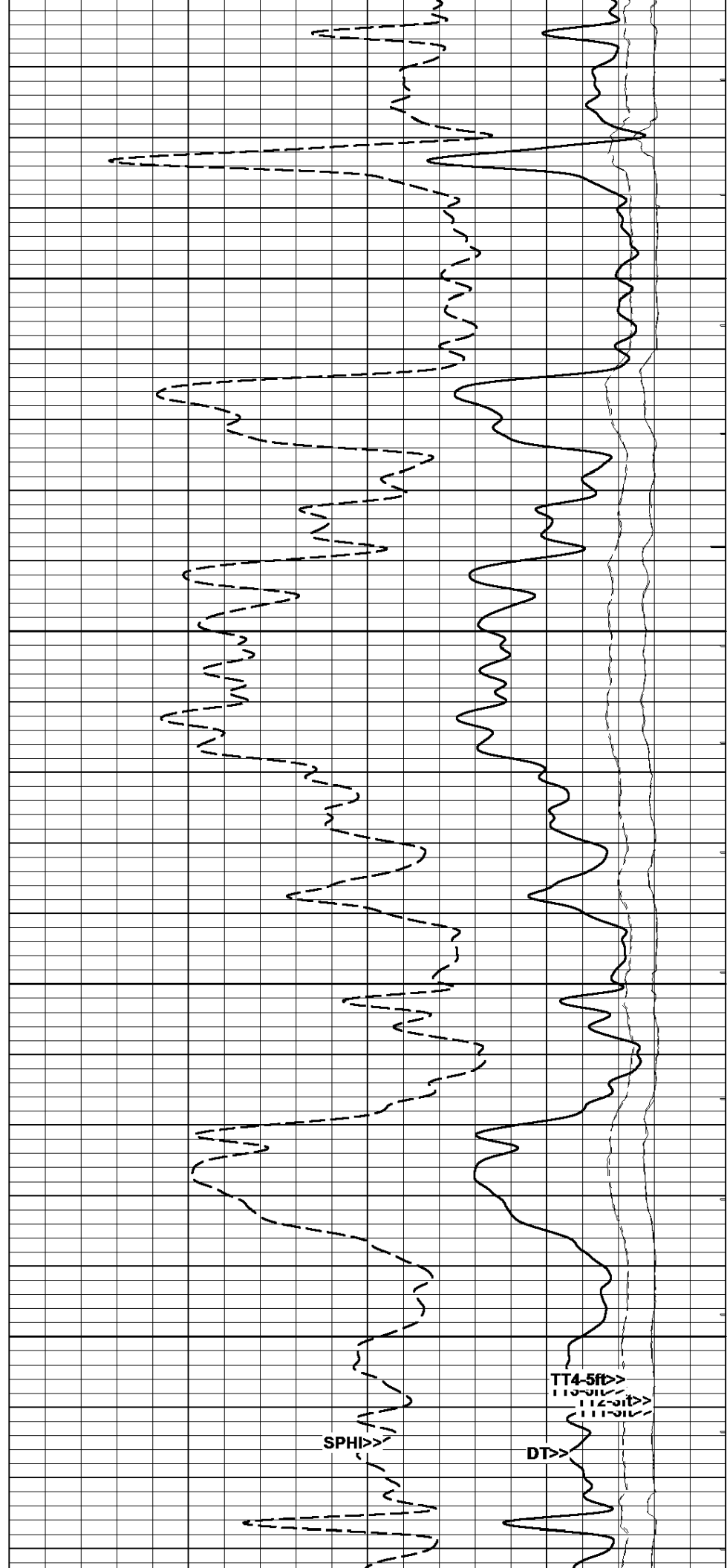
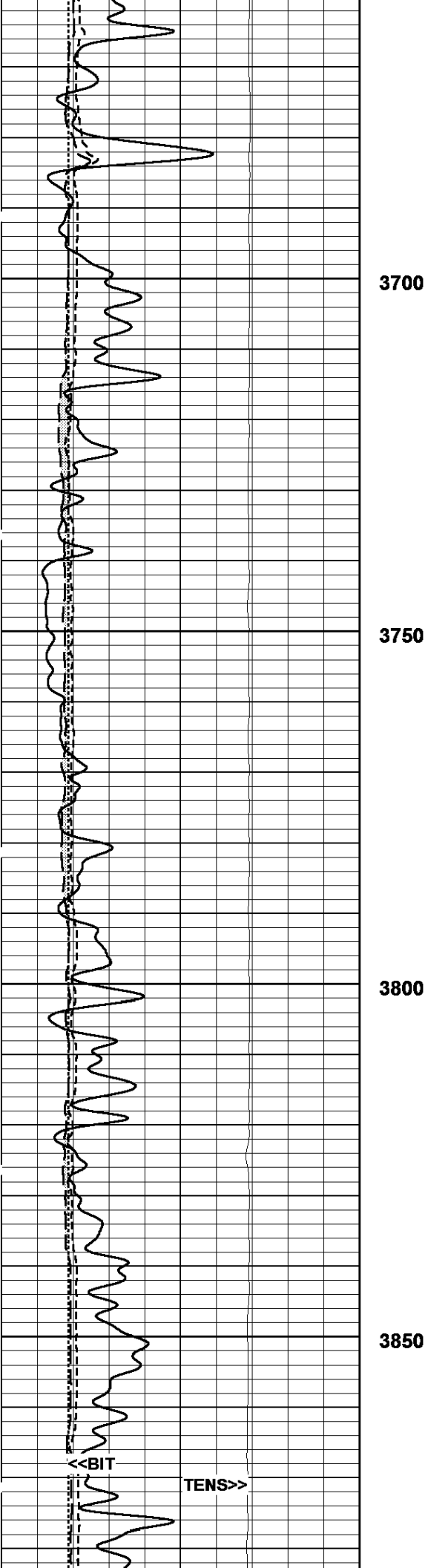
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TENS>>

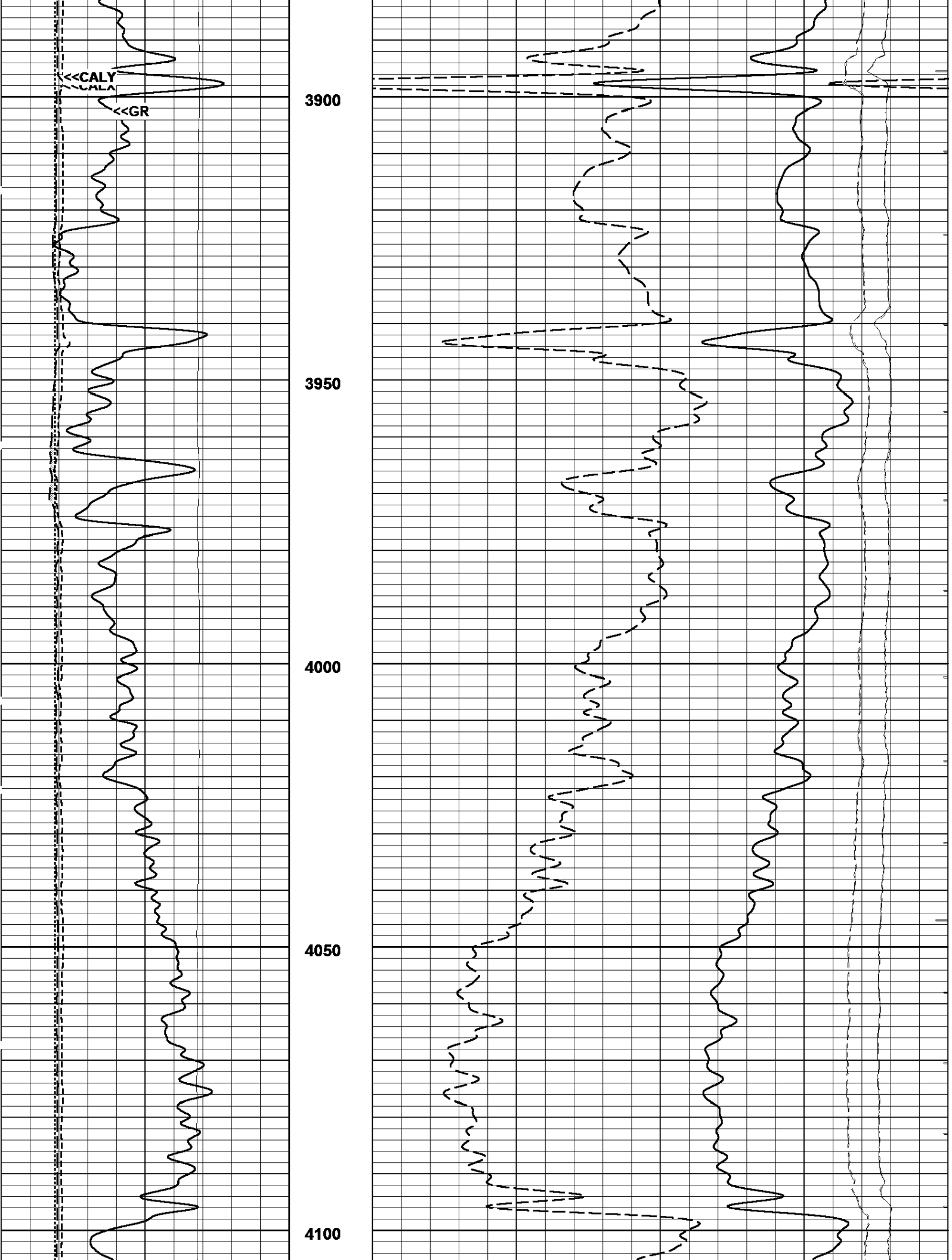
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CALA
<<GR

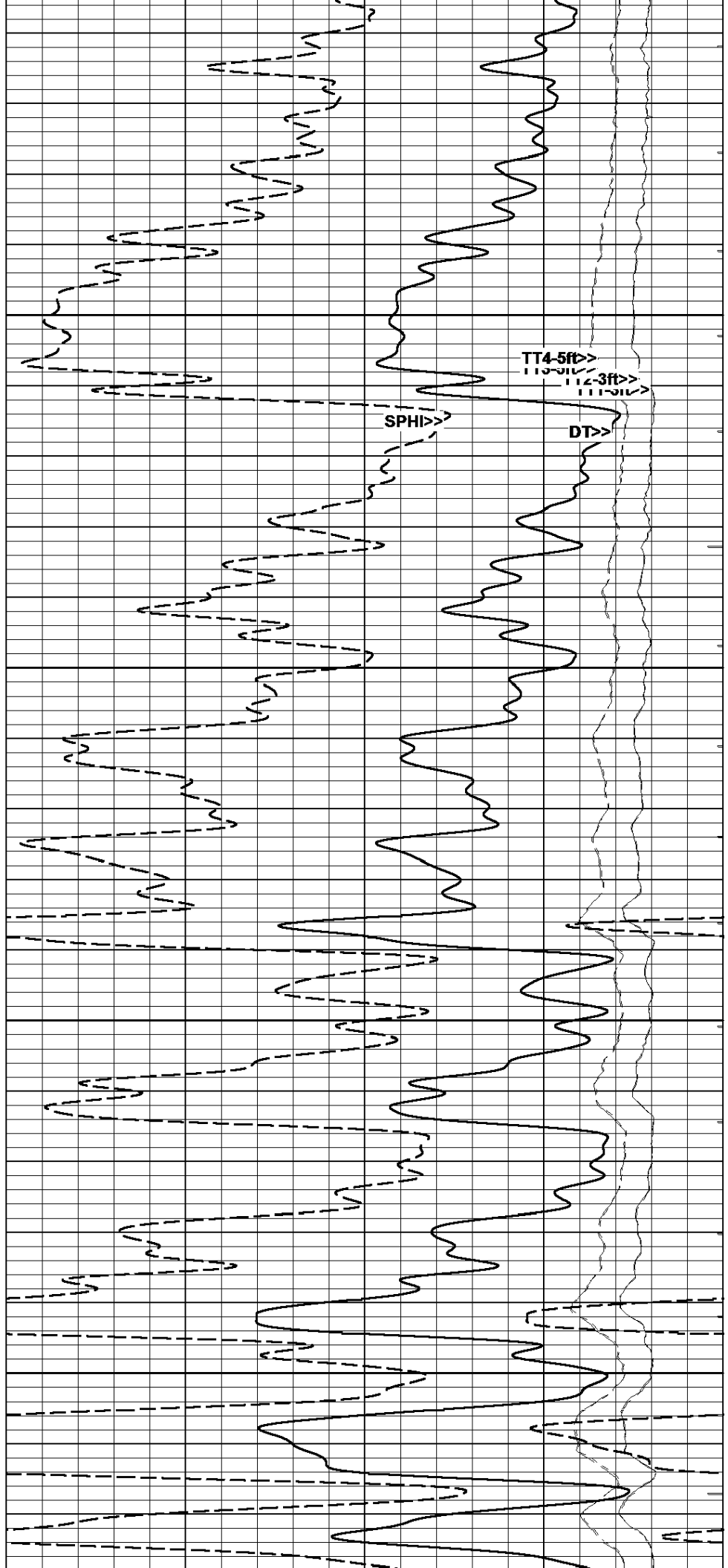
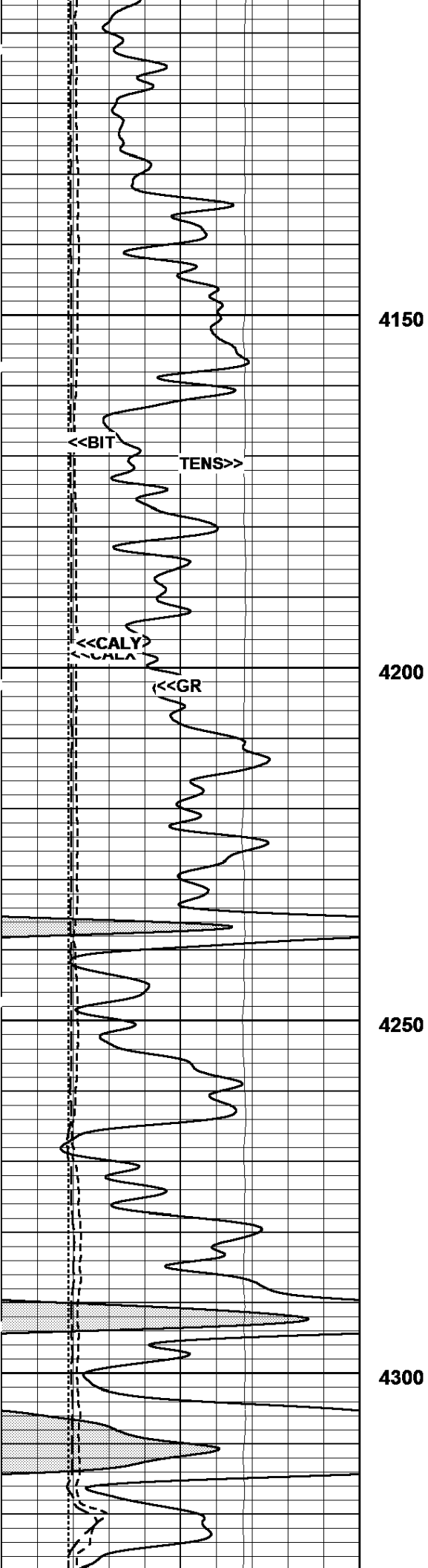


SPhi>>
DT>>

TT4-5ft>>
TT3-5ft>>
TT4-3ft>>
TT3-3ft>>









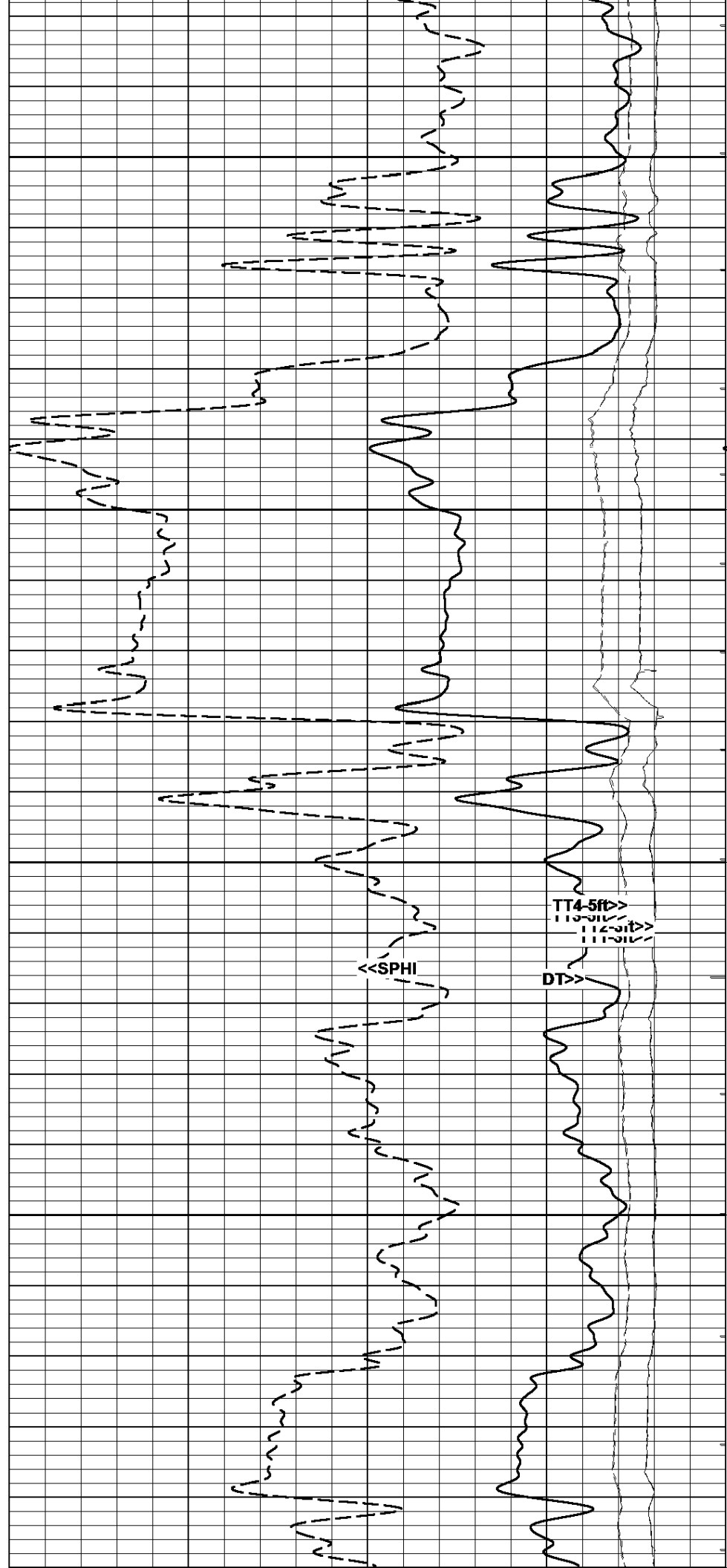
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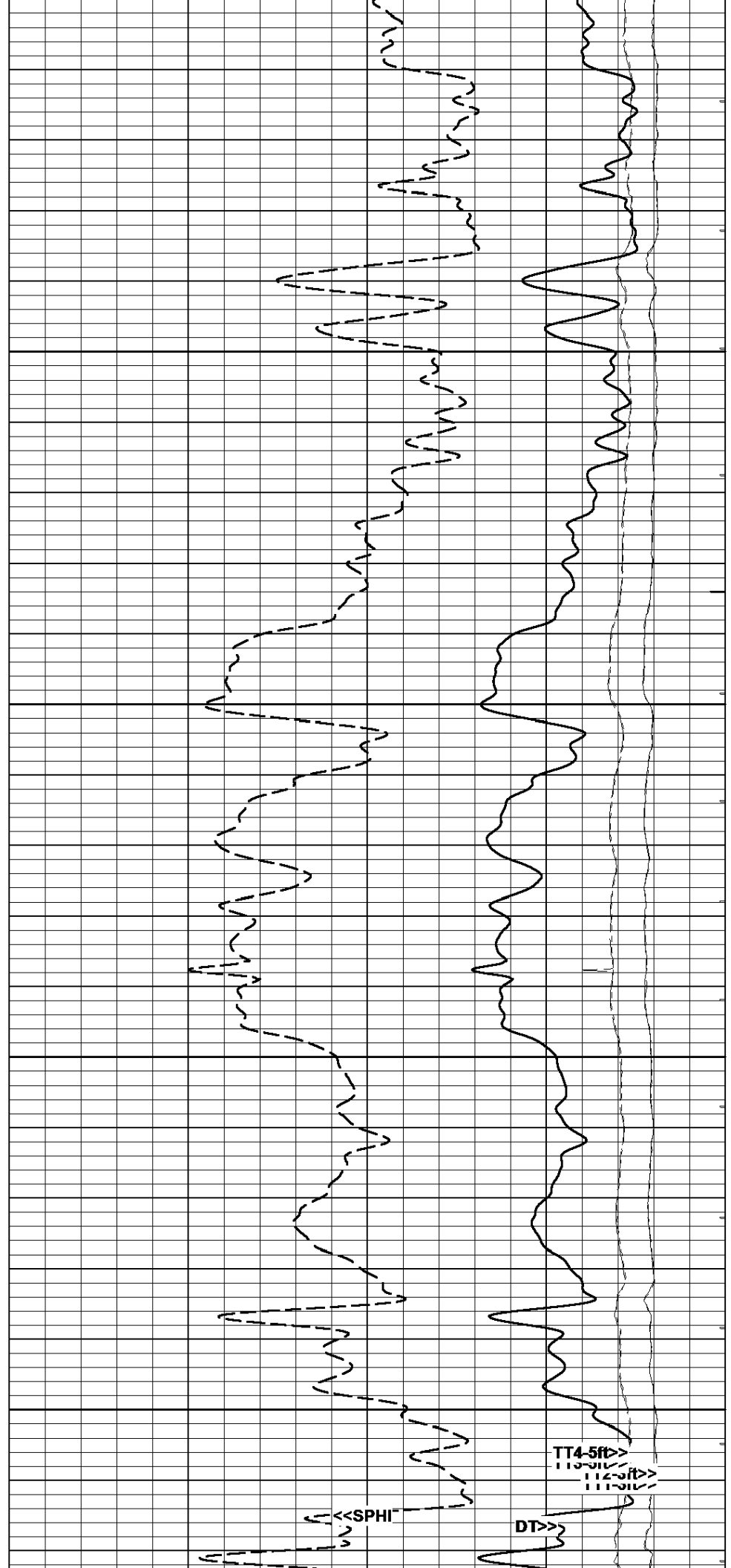
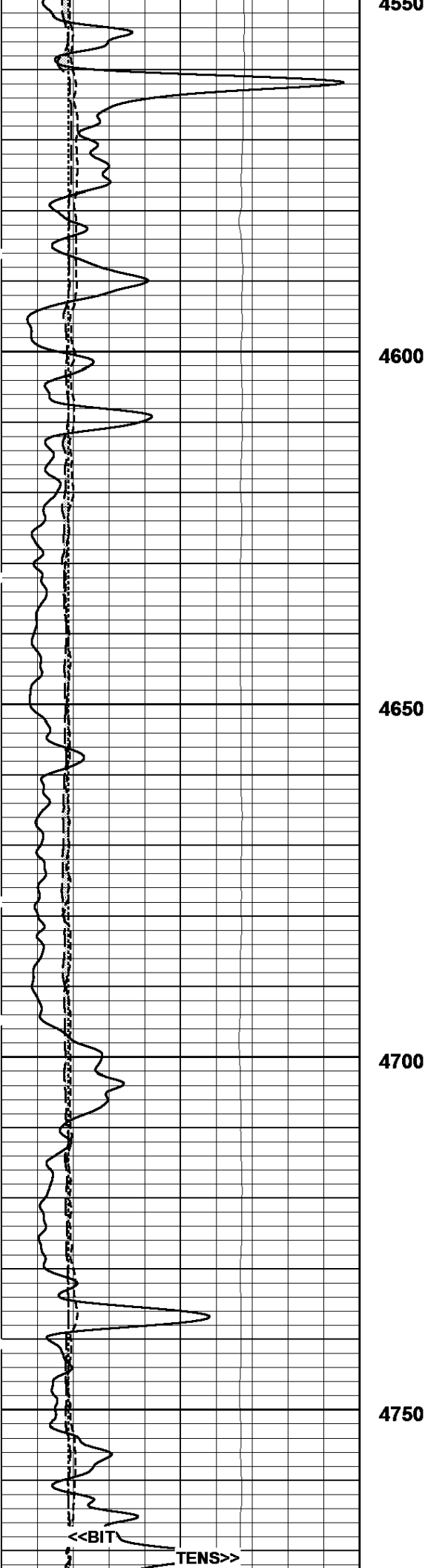
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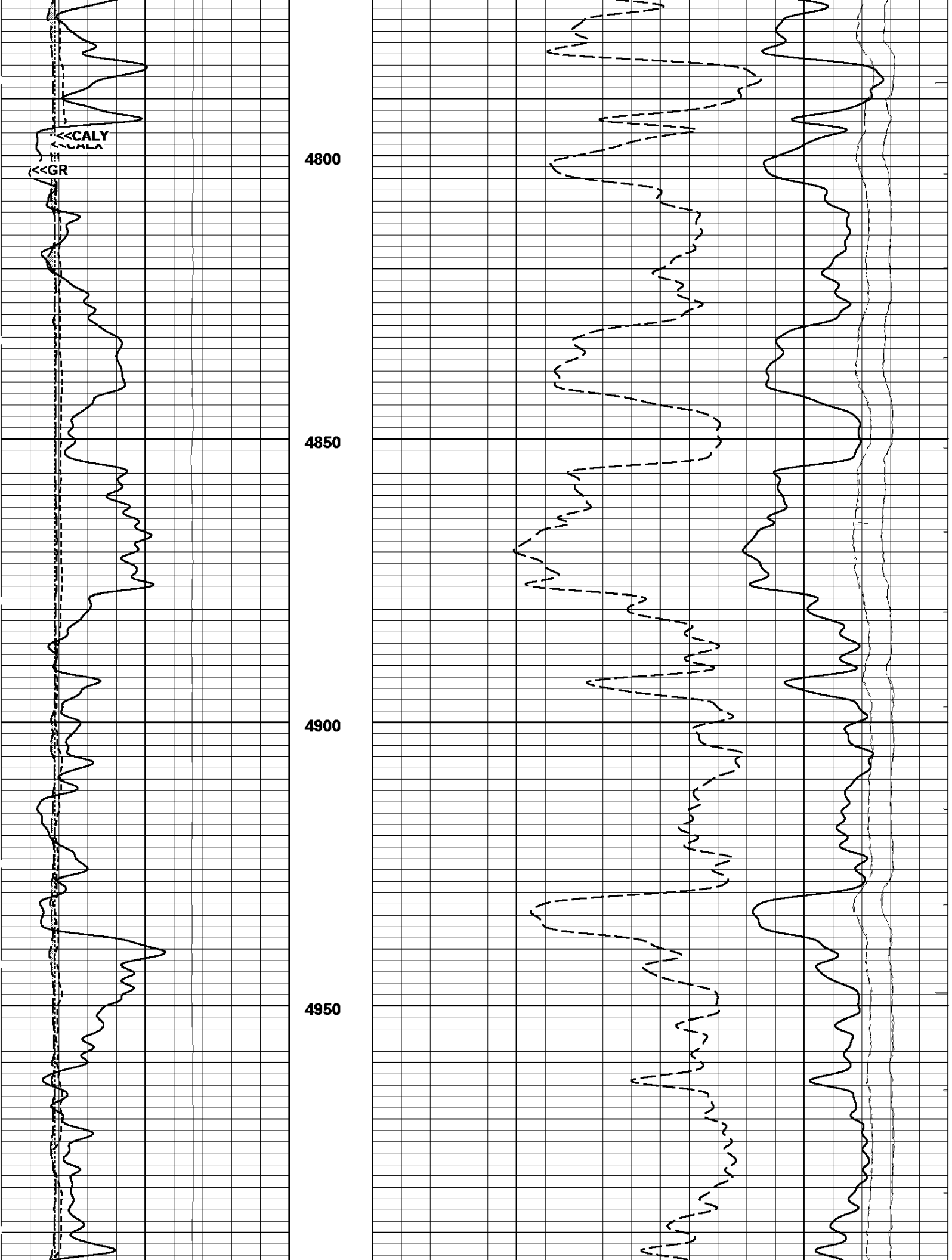
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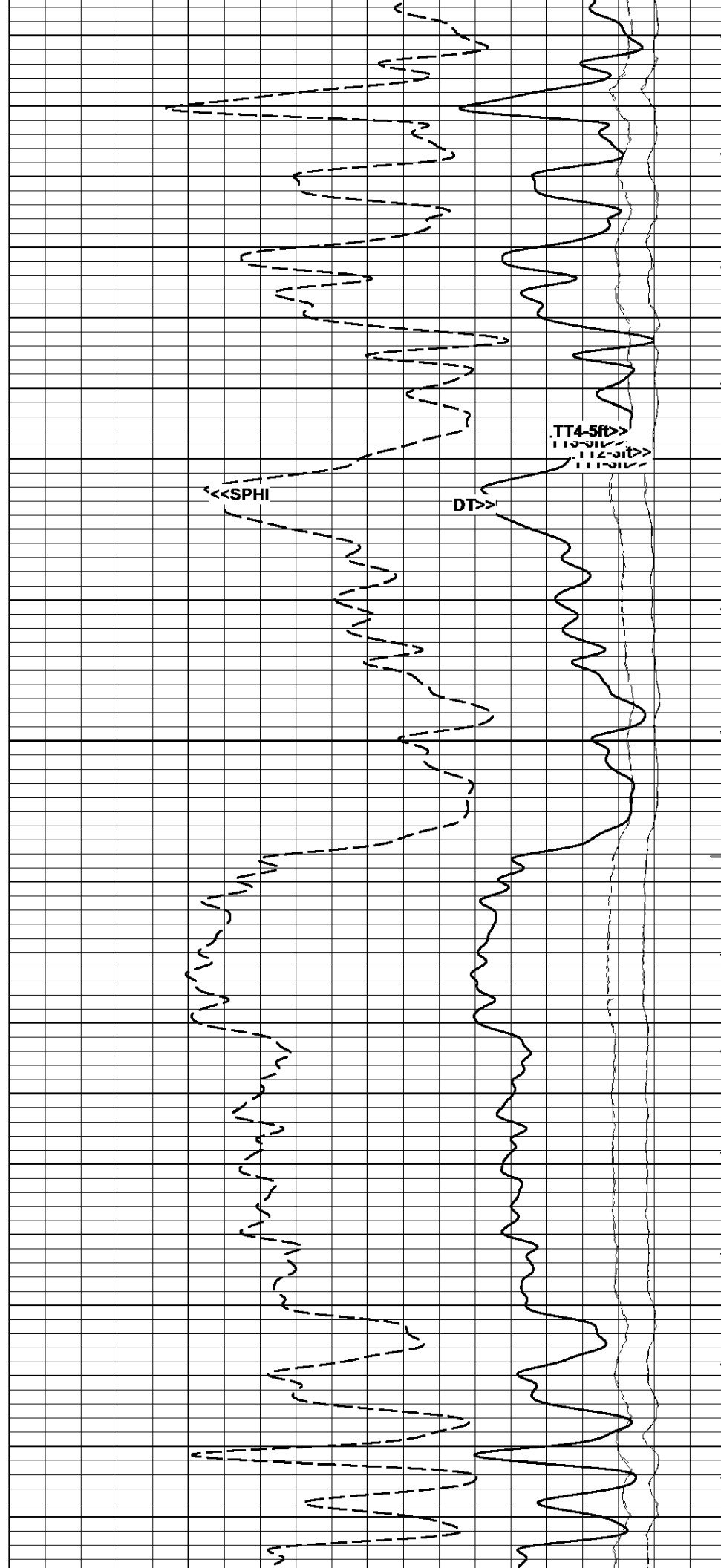
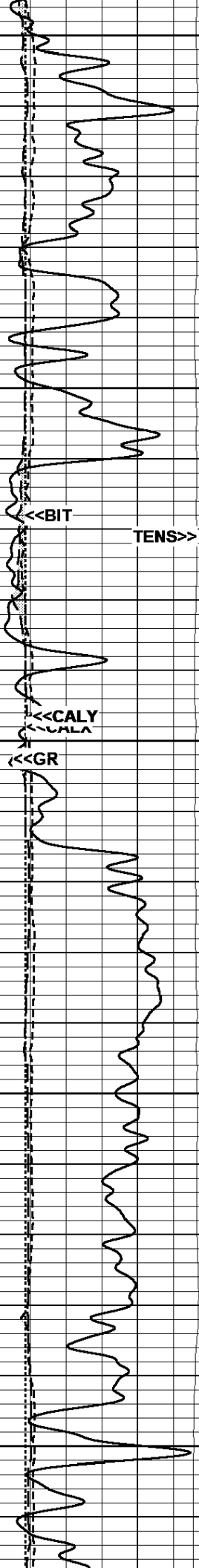
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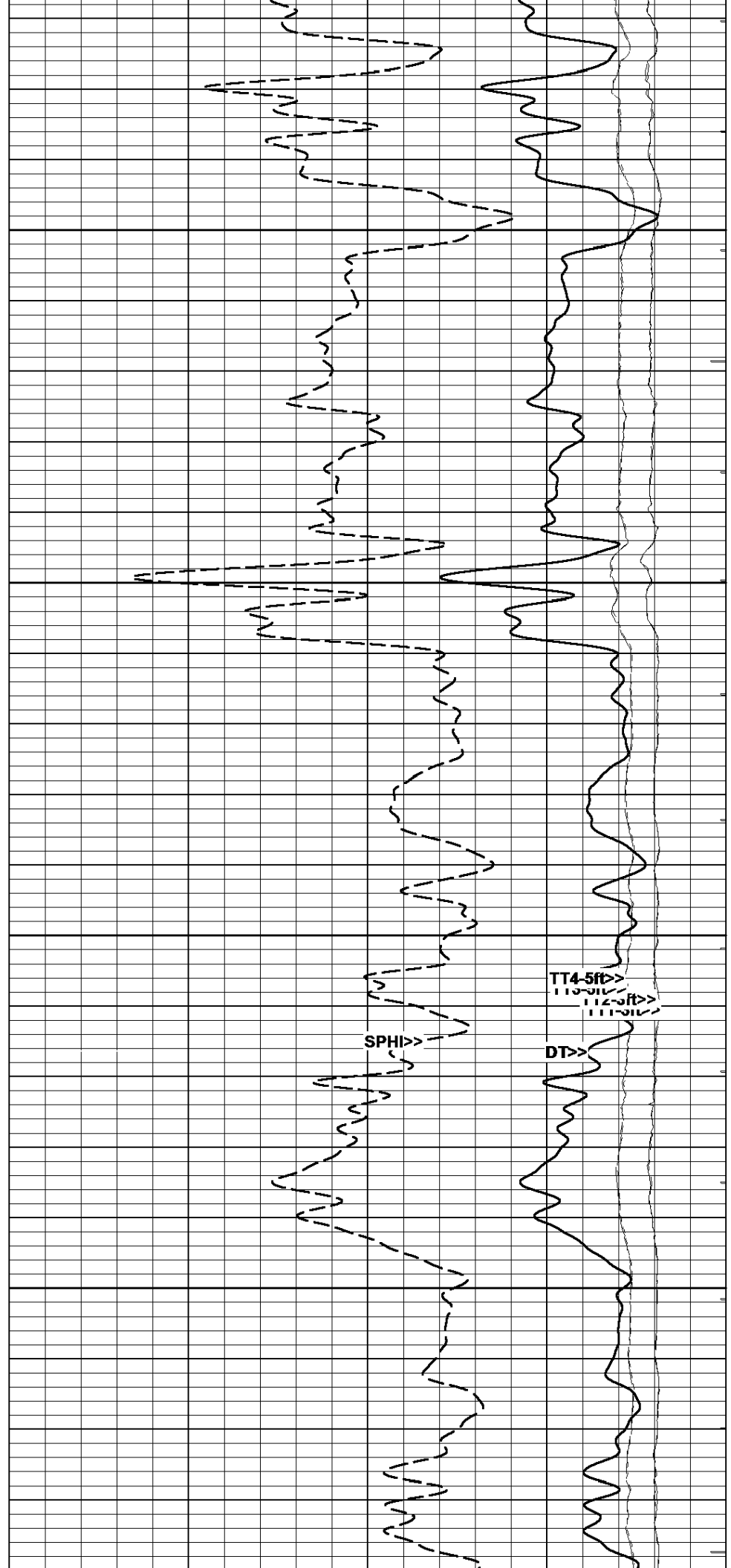
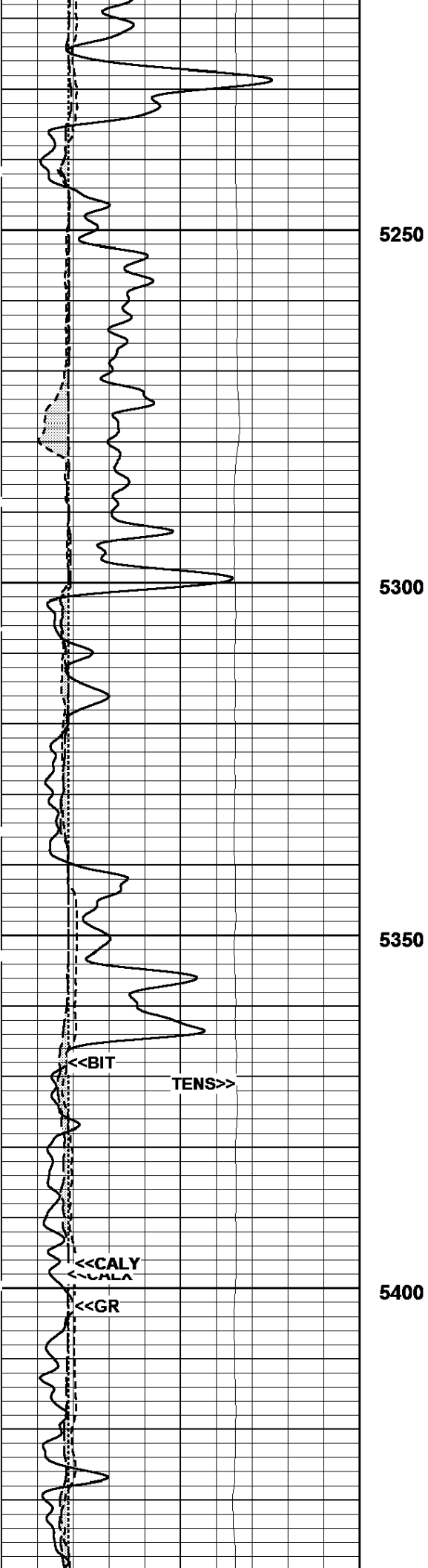
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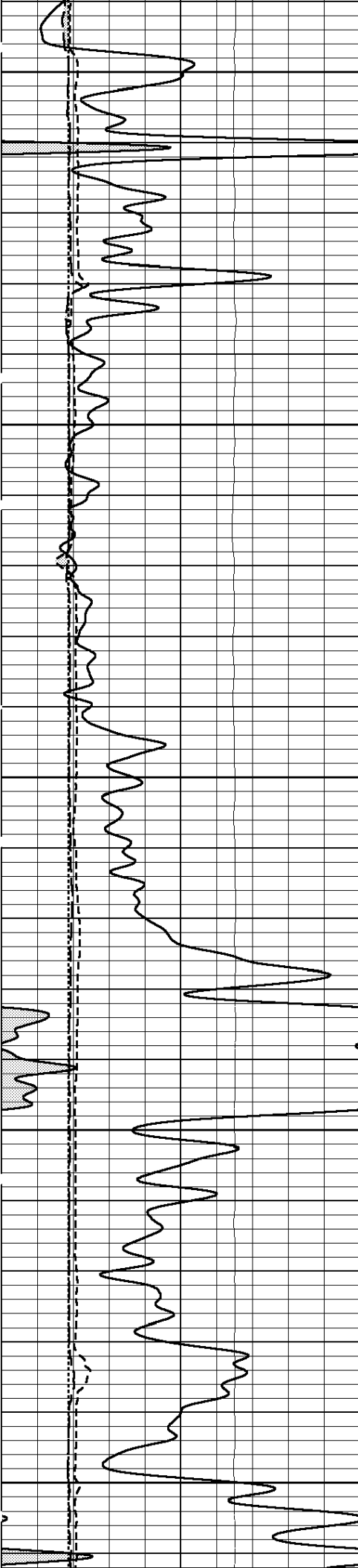
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5150

5200







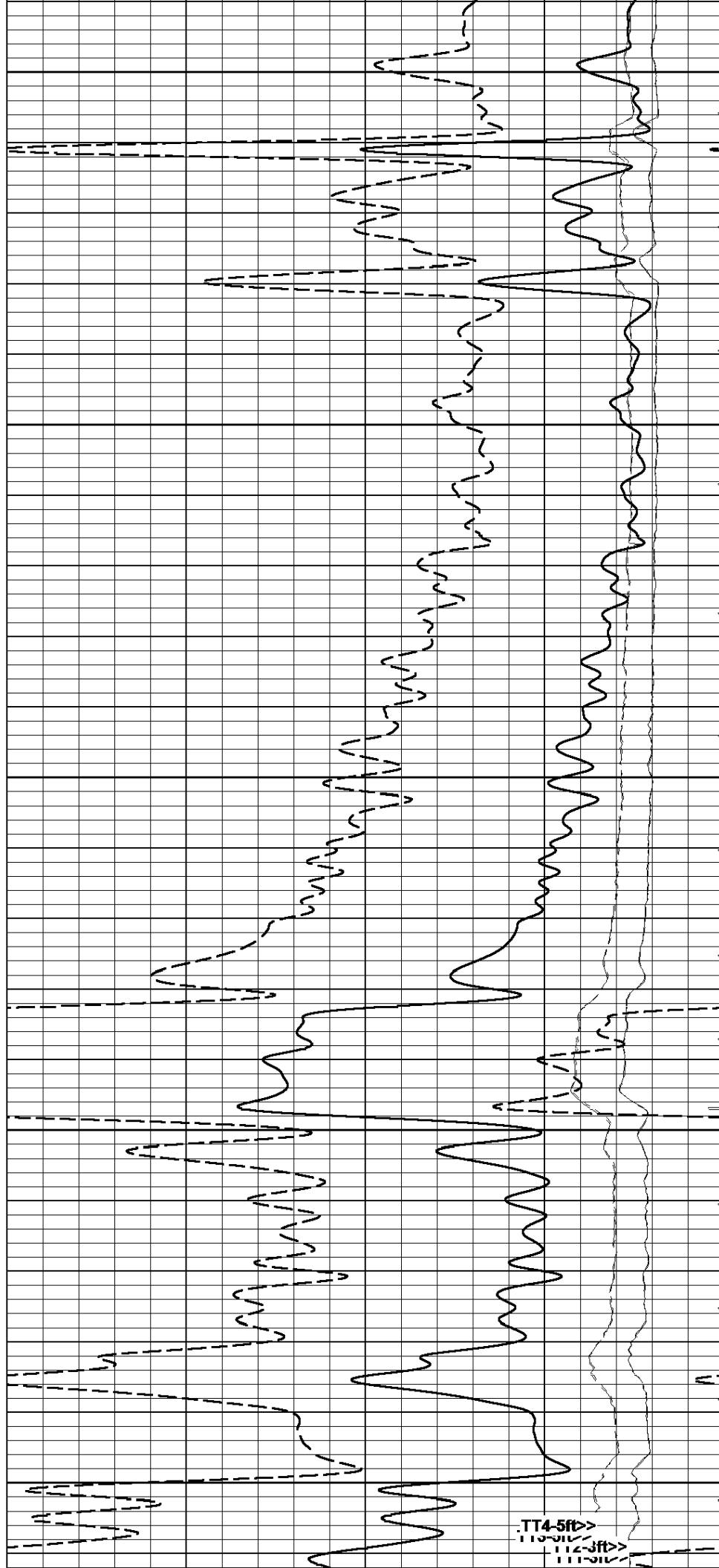
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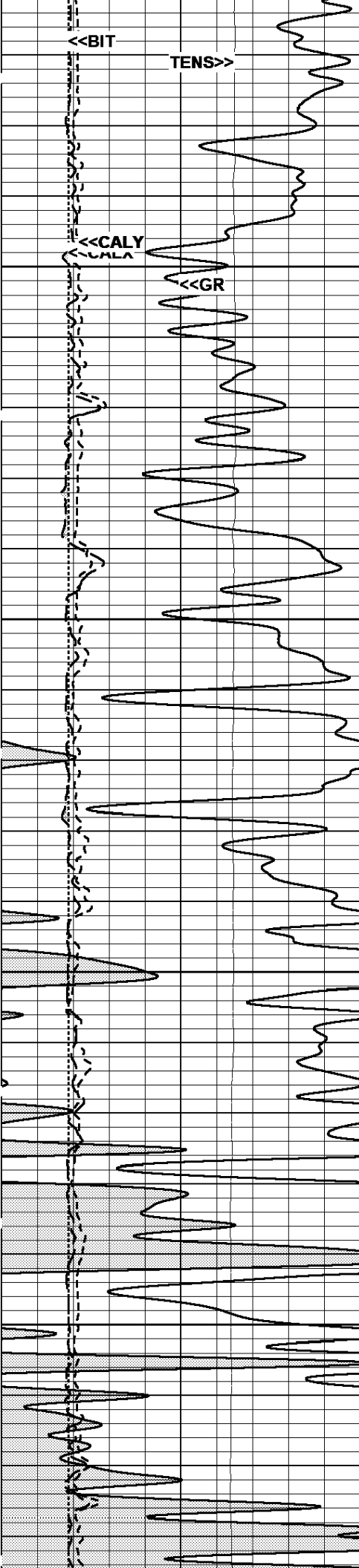
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TT4-5ft>>

TT2-3ft>>

TT1-3ft>>

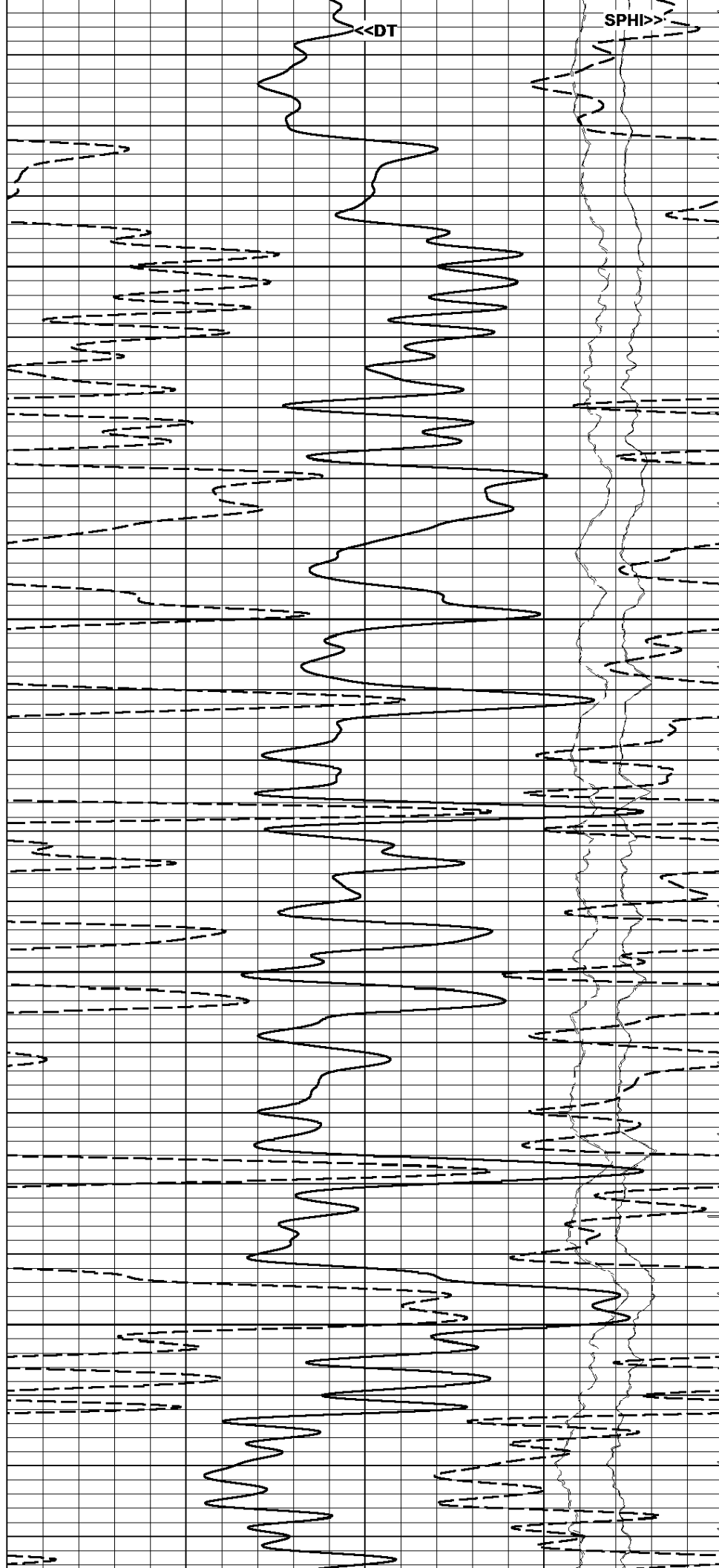


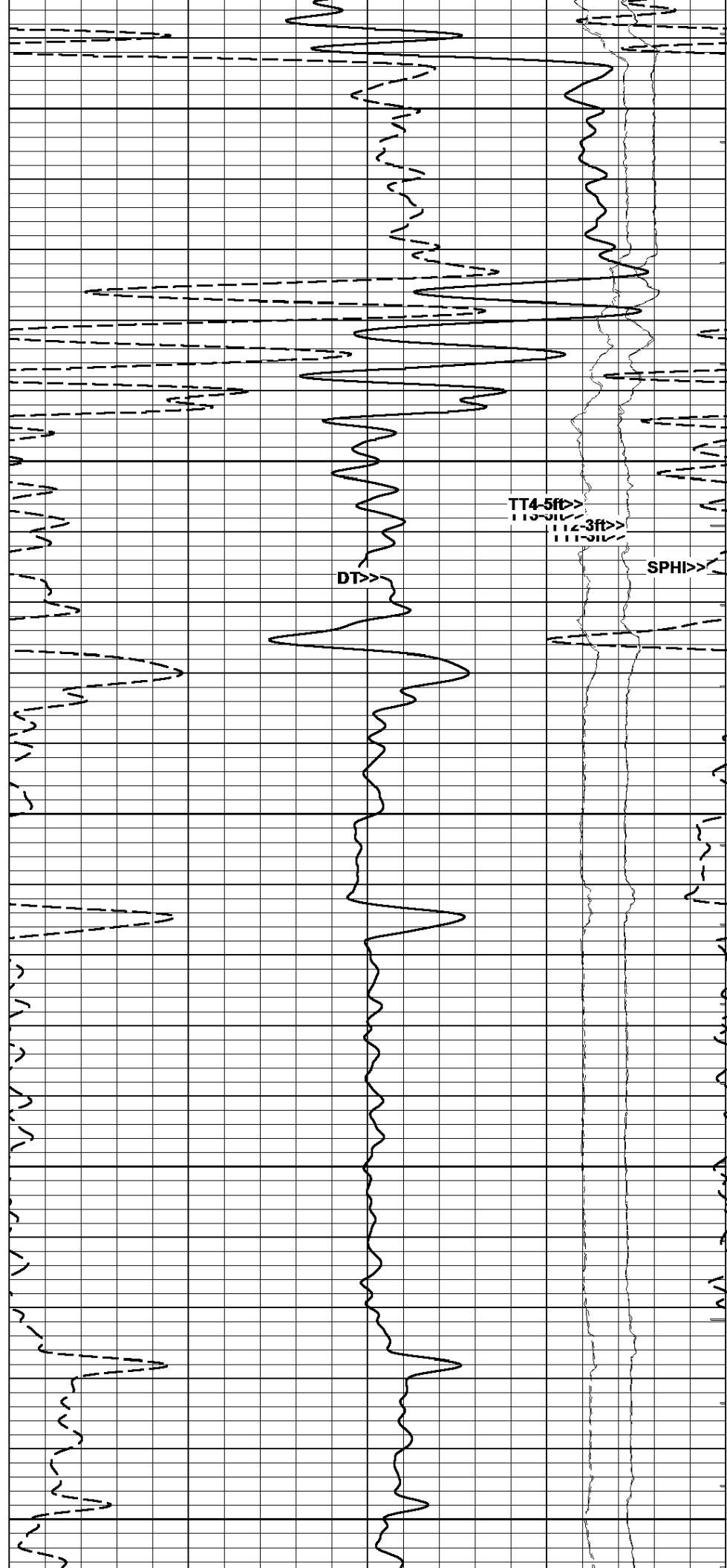
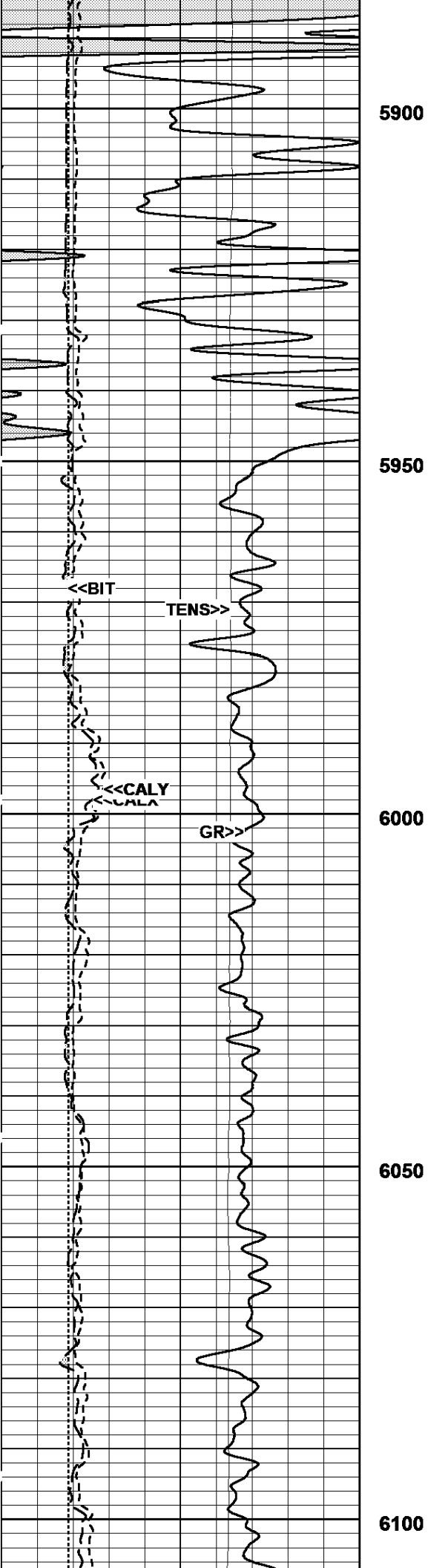
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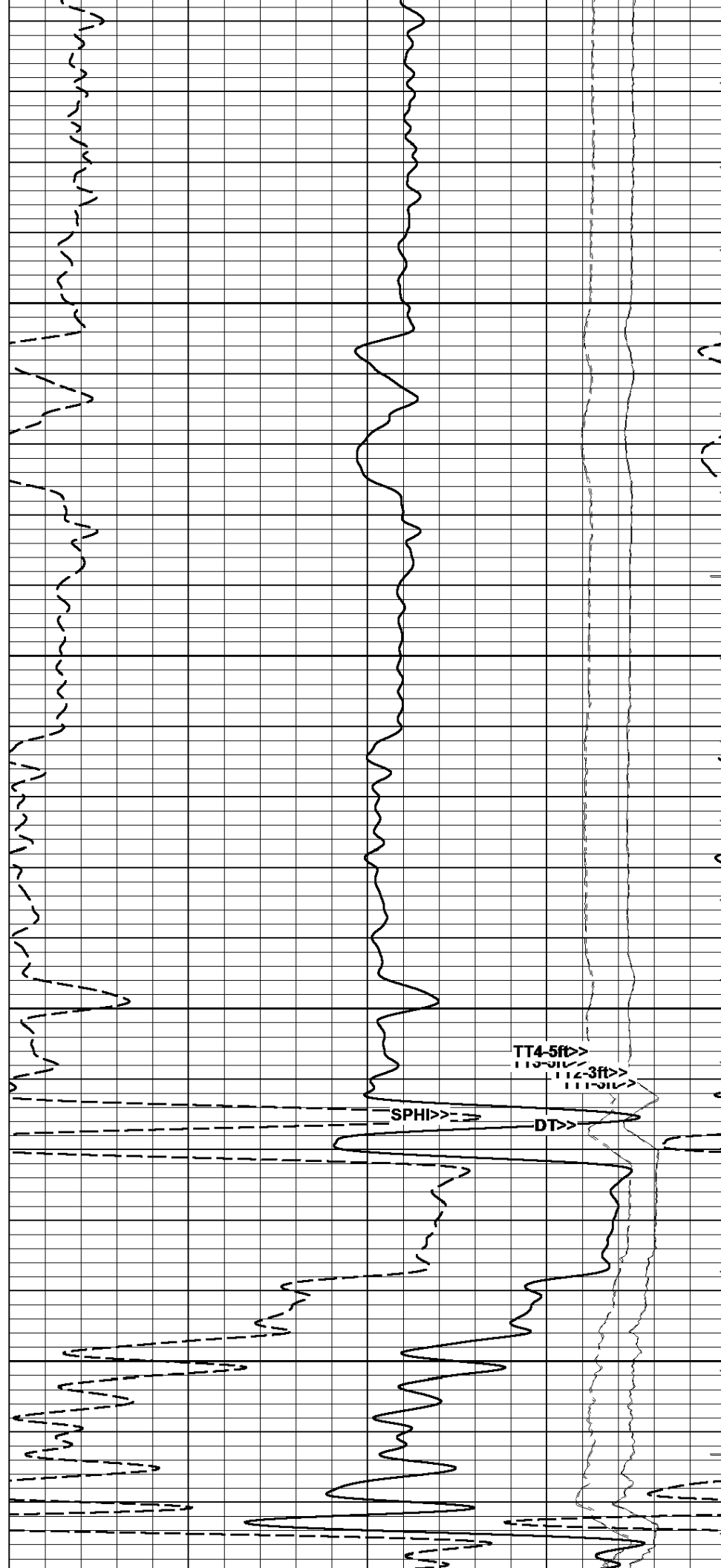
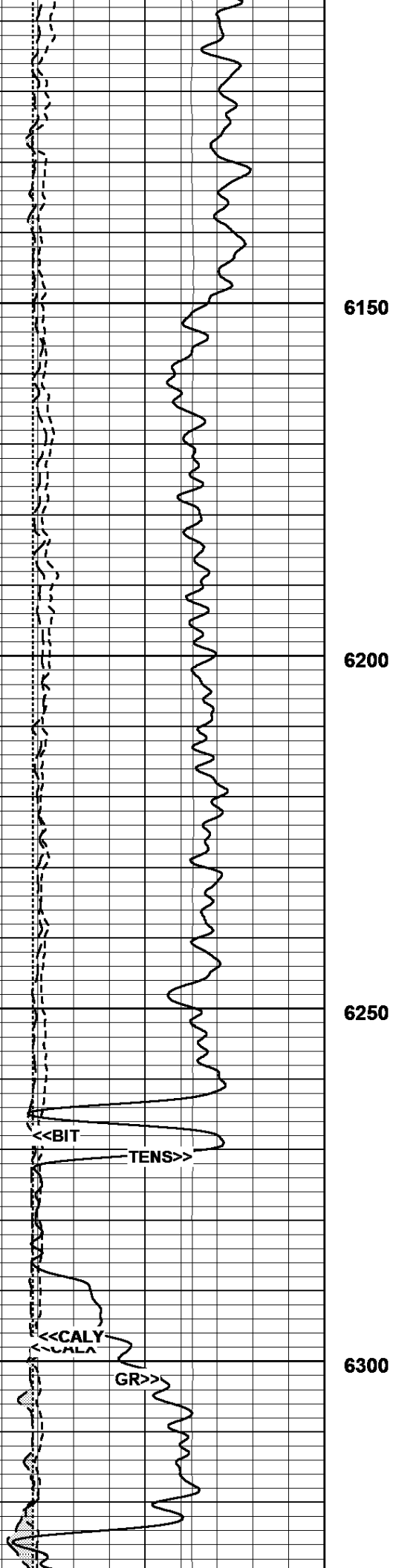
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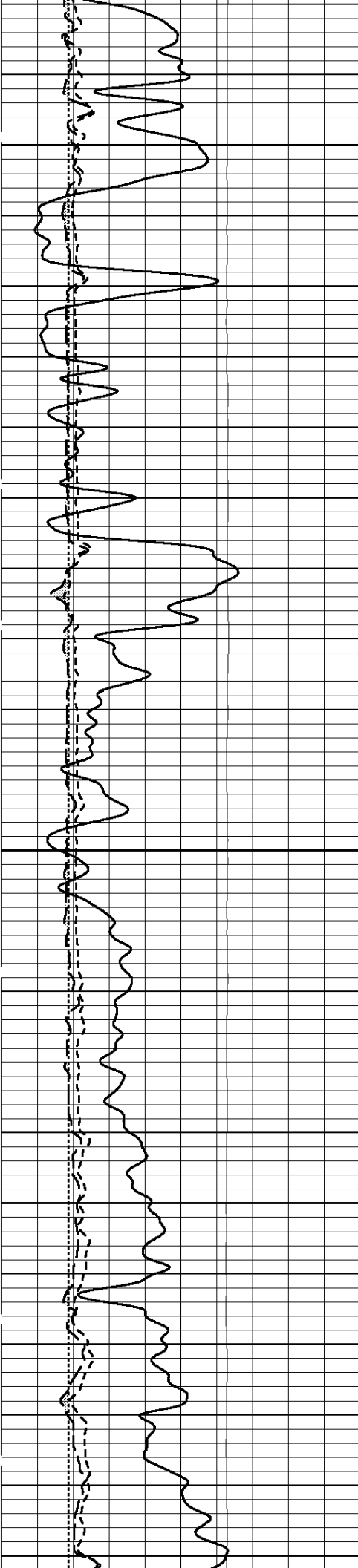
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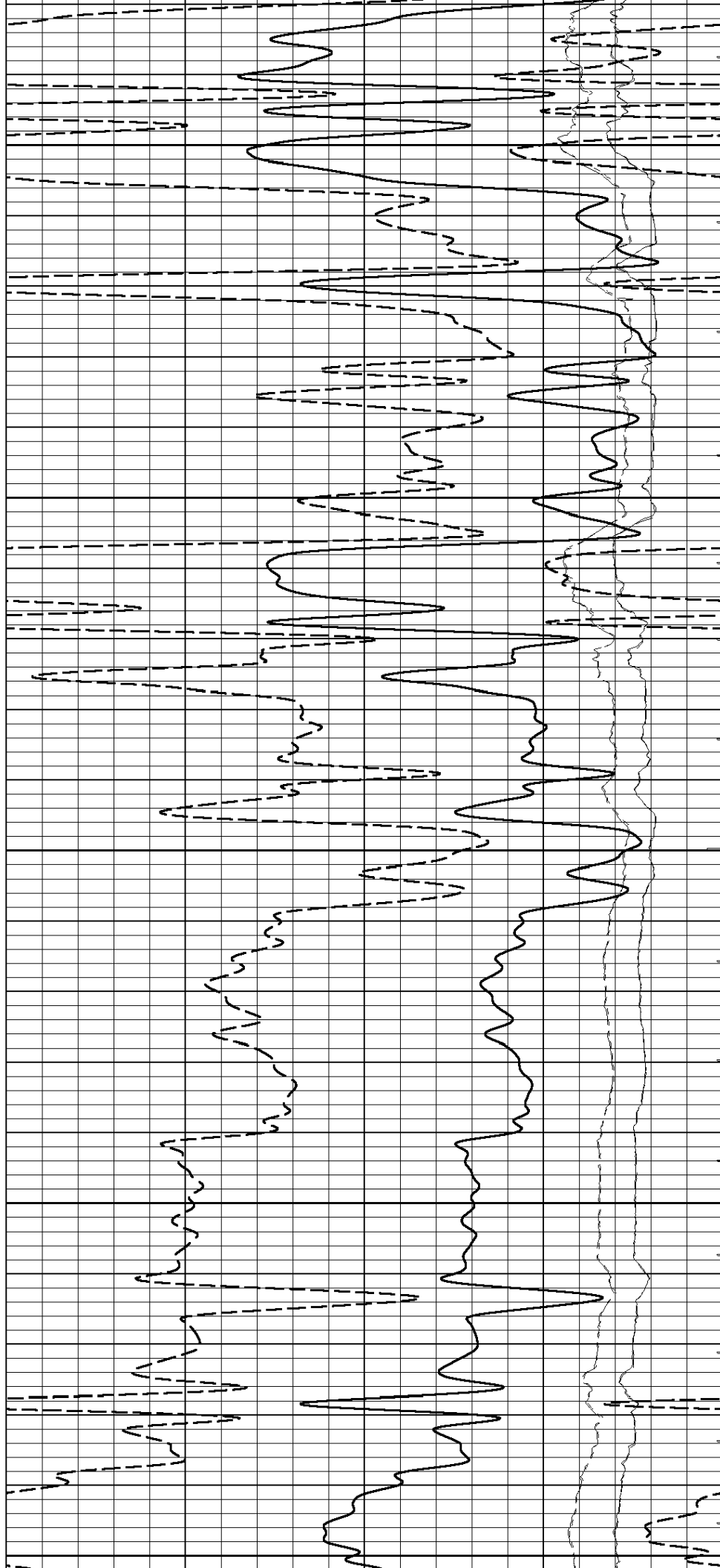
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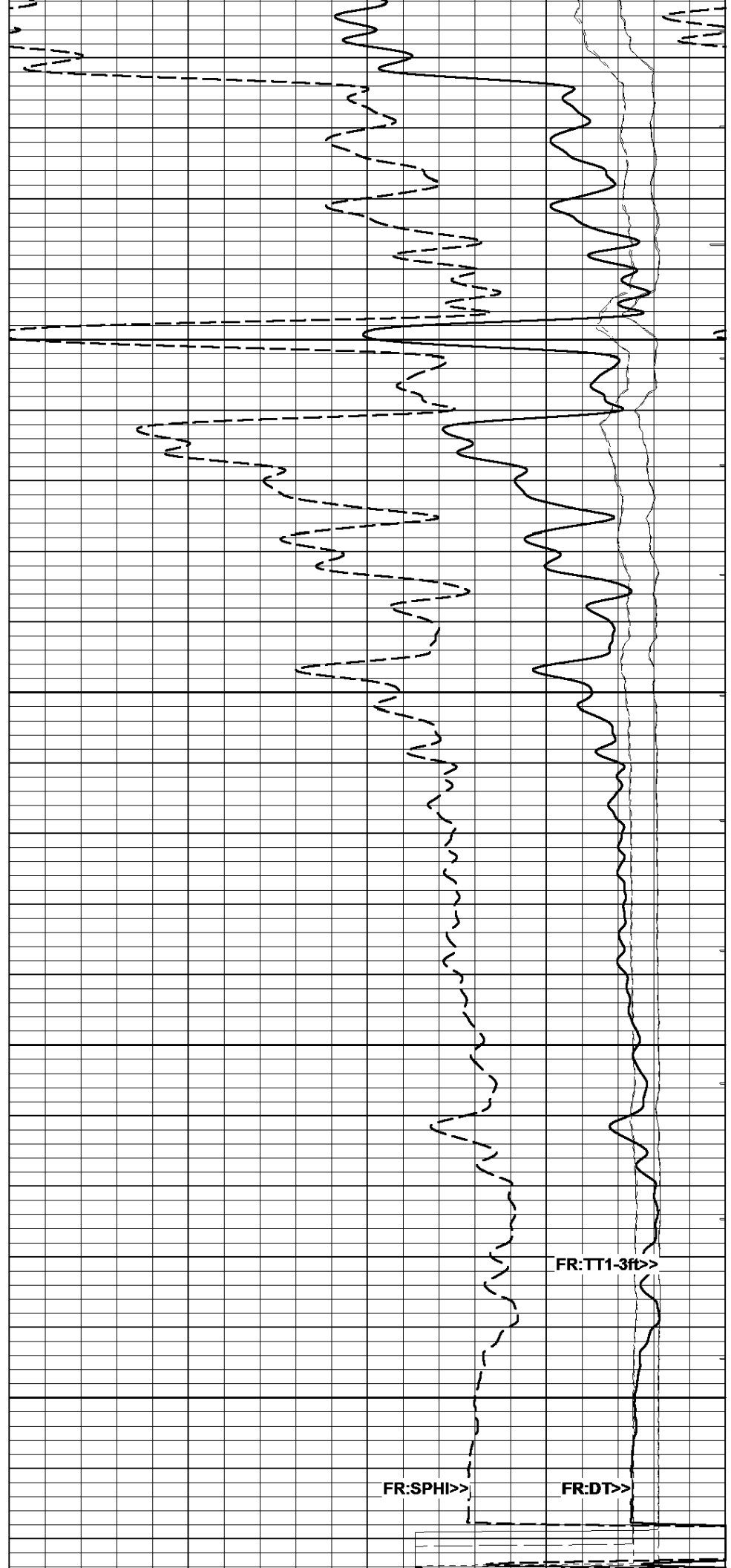
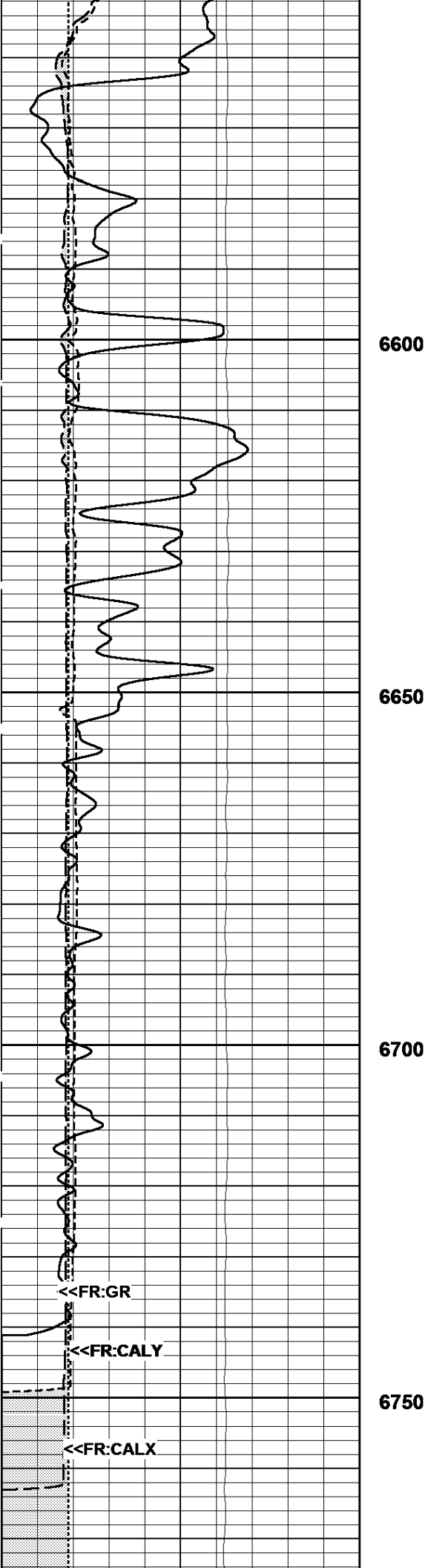
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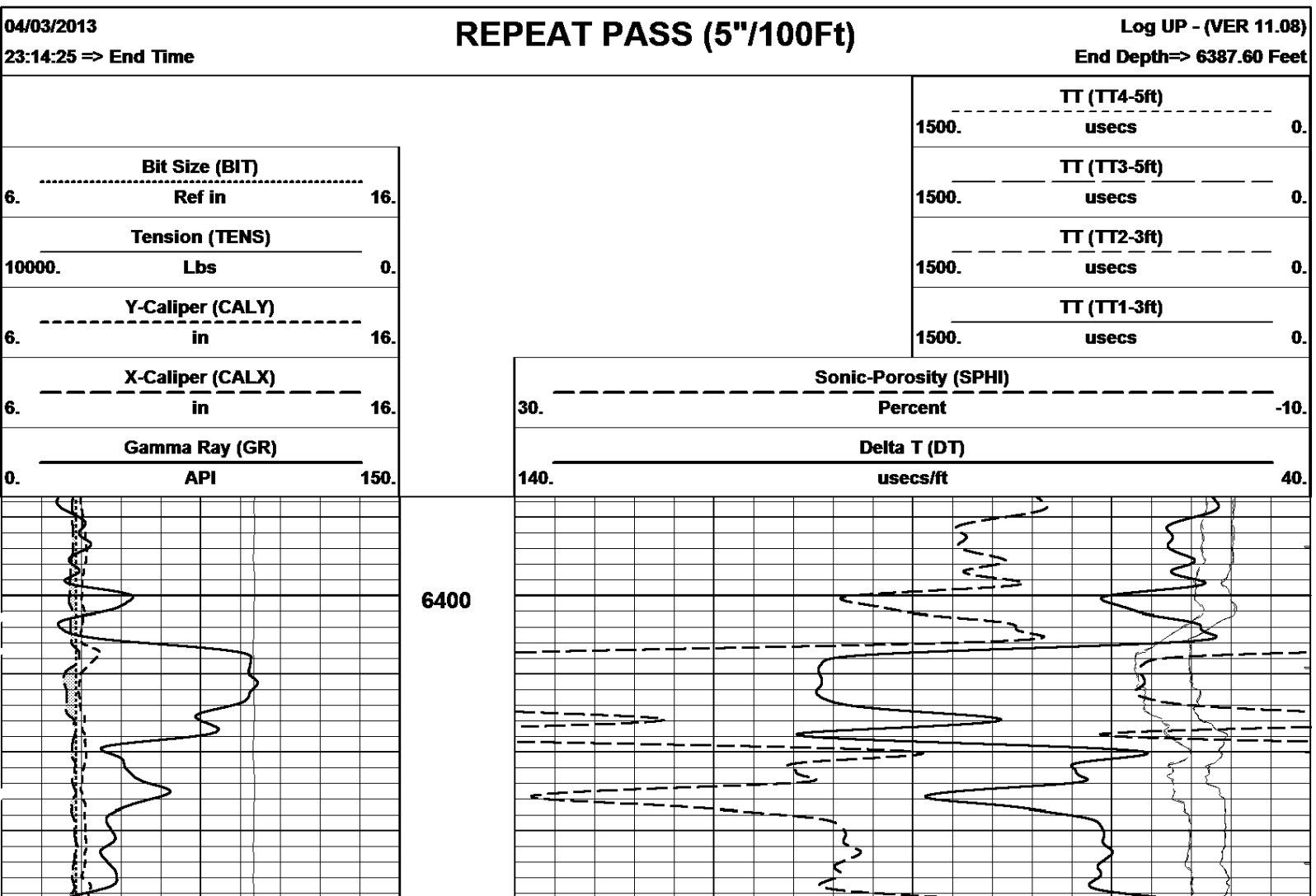
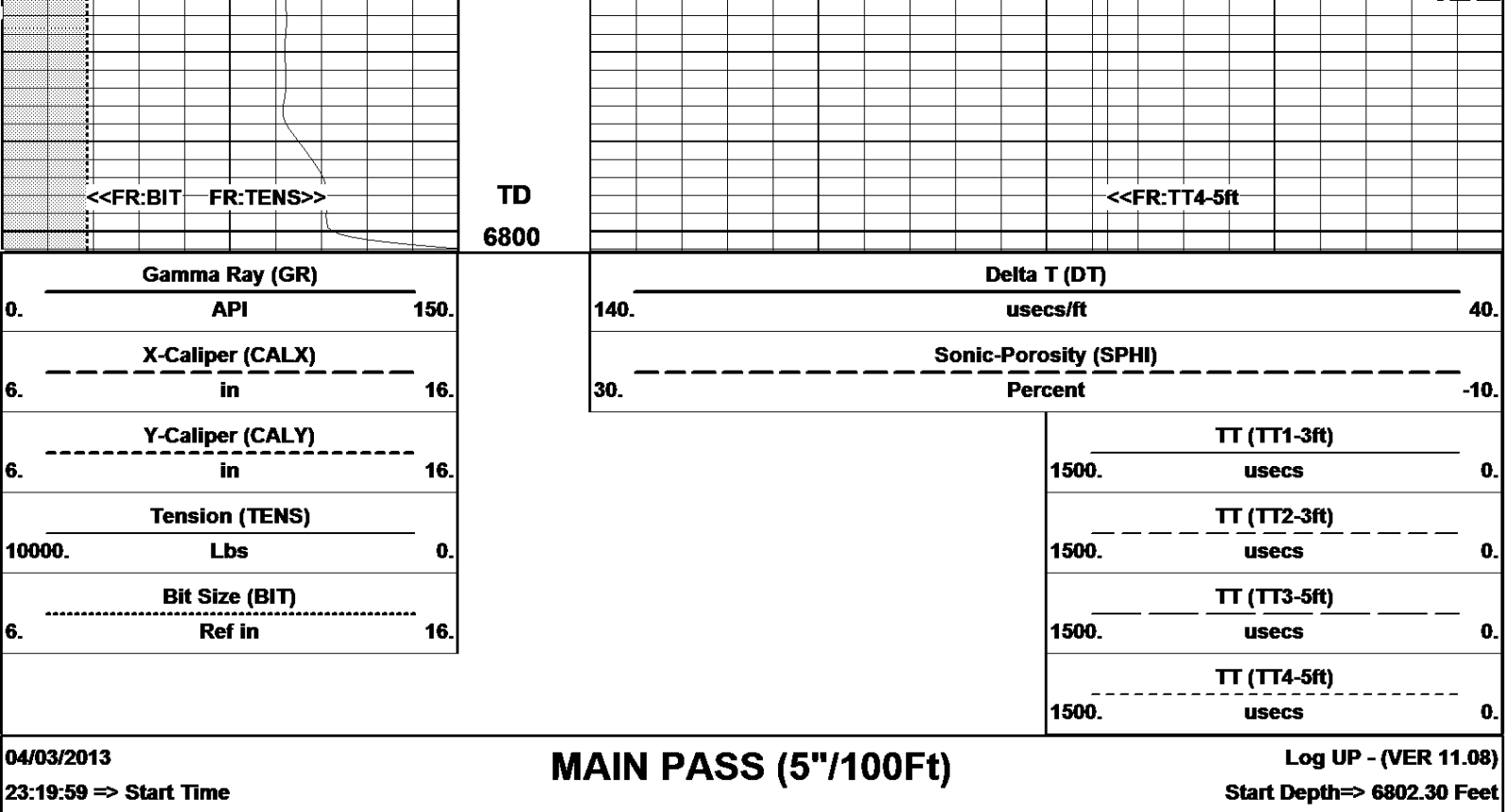
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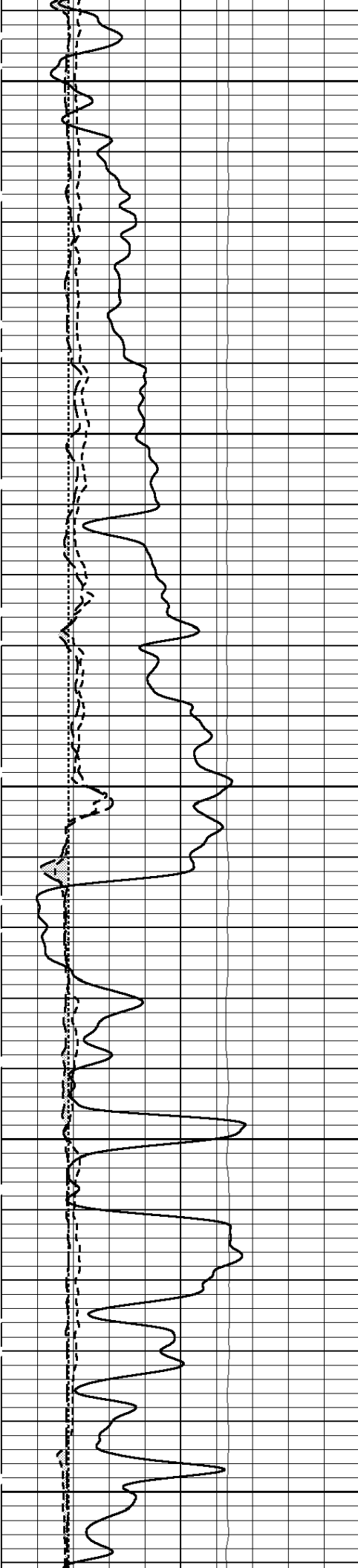
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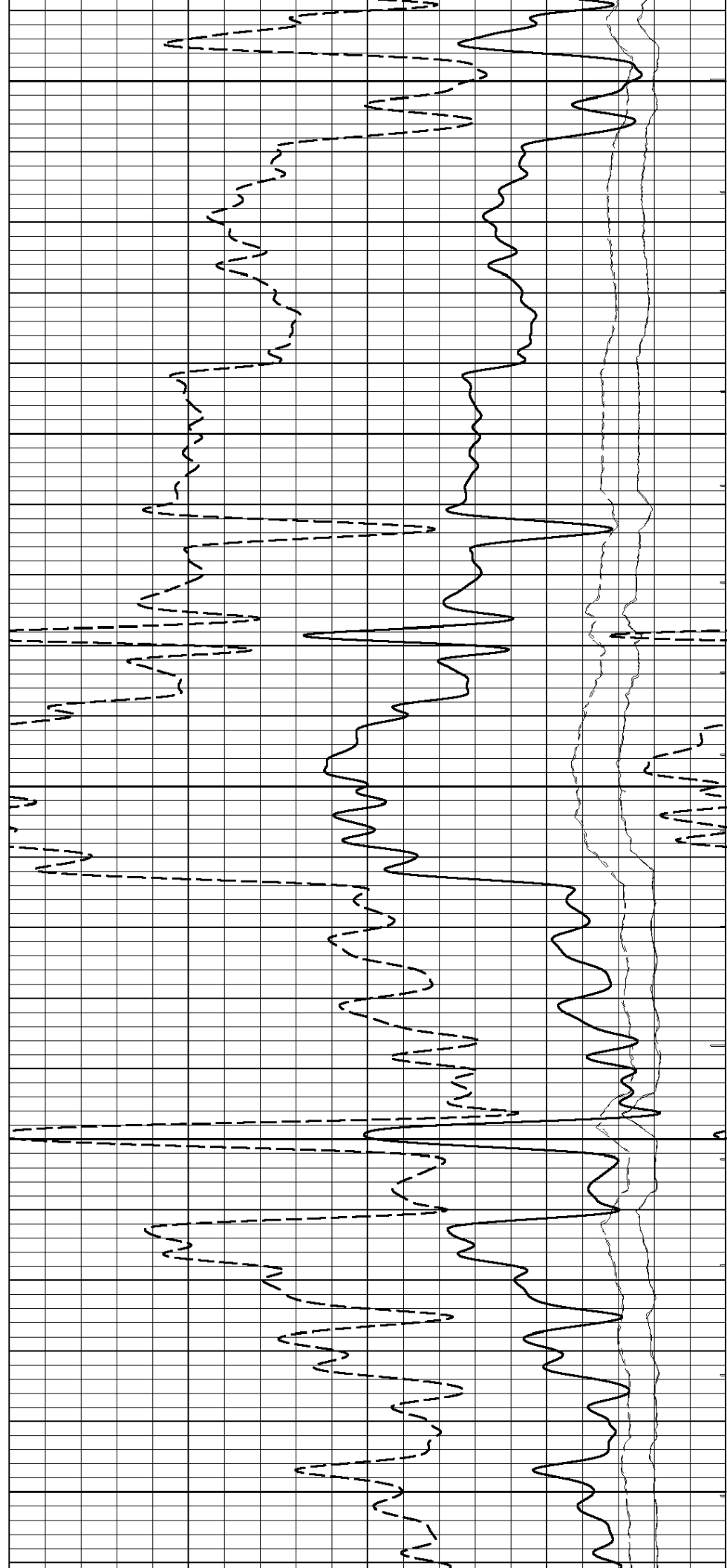
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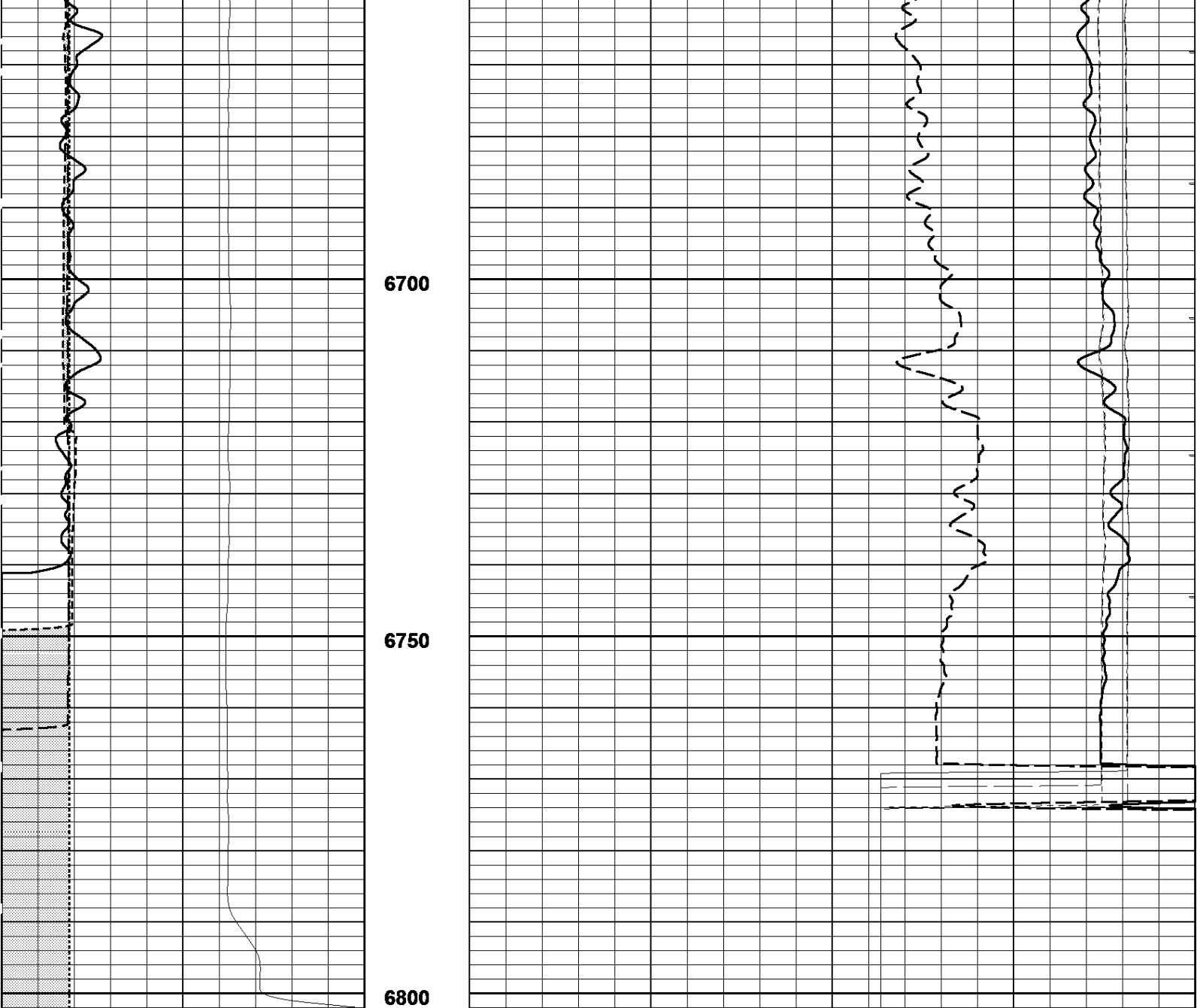
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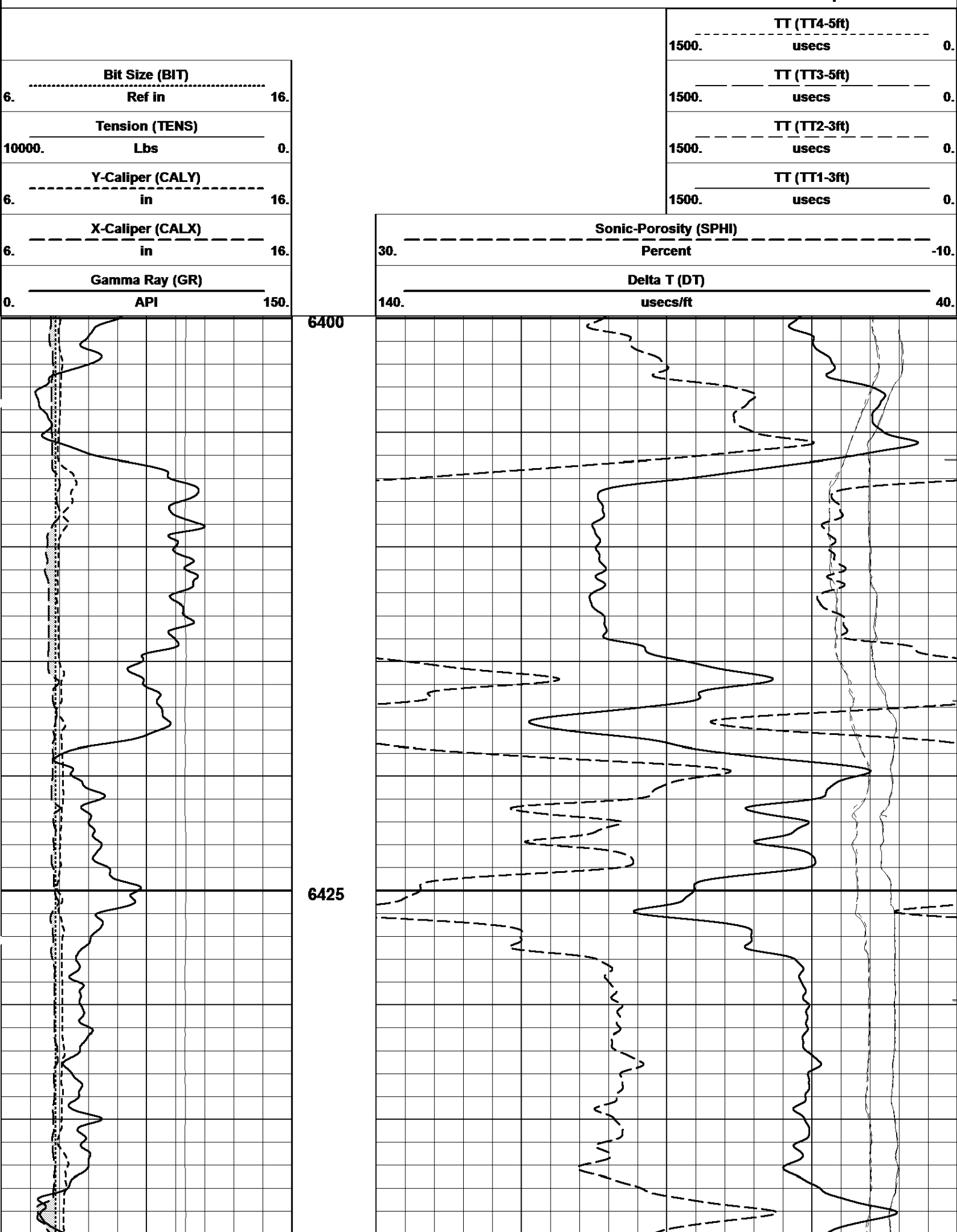


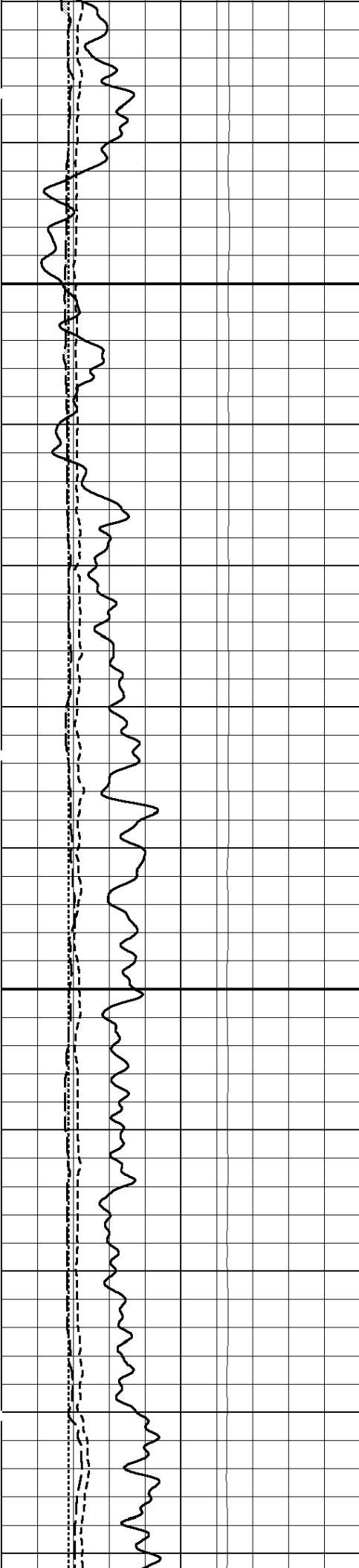


Gamma Ray (GR)		
0.	API	150.
X-Caliper (CALX)		
6.	in	16.
Y-Caliper (CALY)		
6.	in	16.
Tension (TENS)		
10000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.

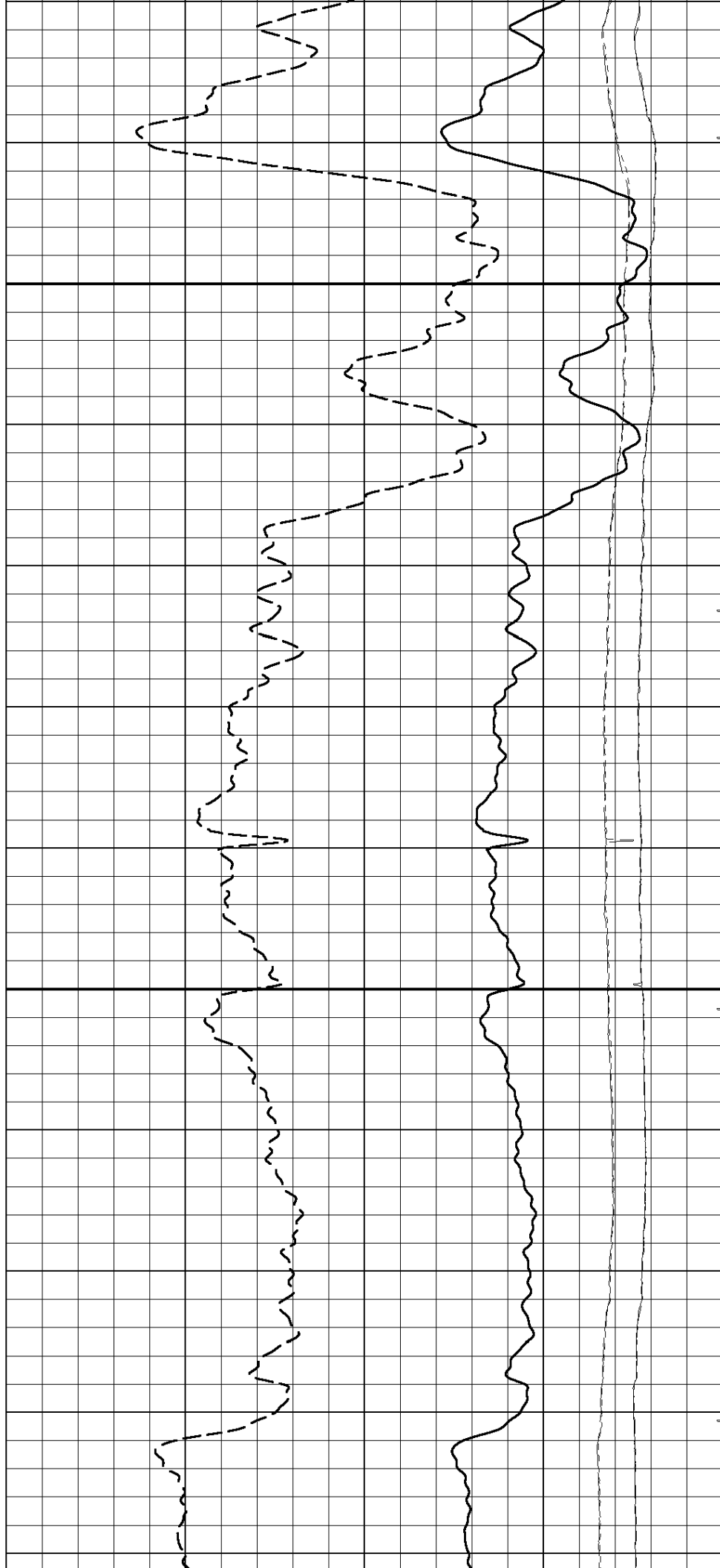
Delta T (DT)		
140.	usecs/ft	40.
Sonic-Porosity (SPHI)		
30.	Percent	-10.

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

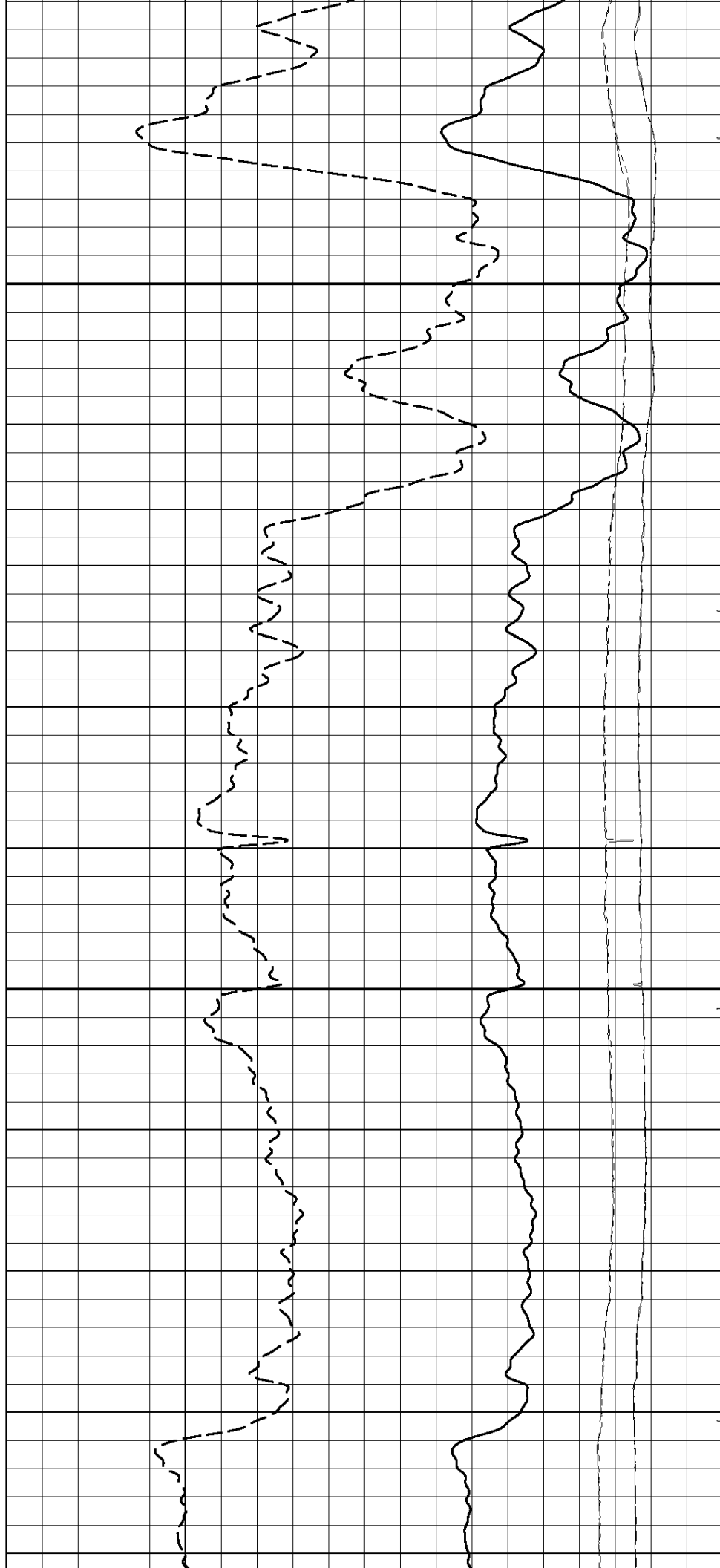
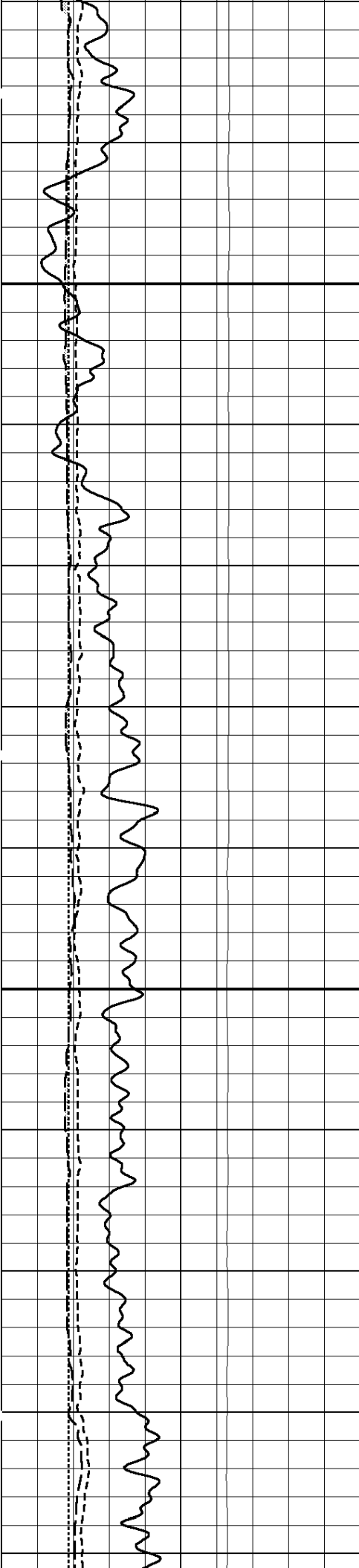


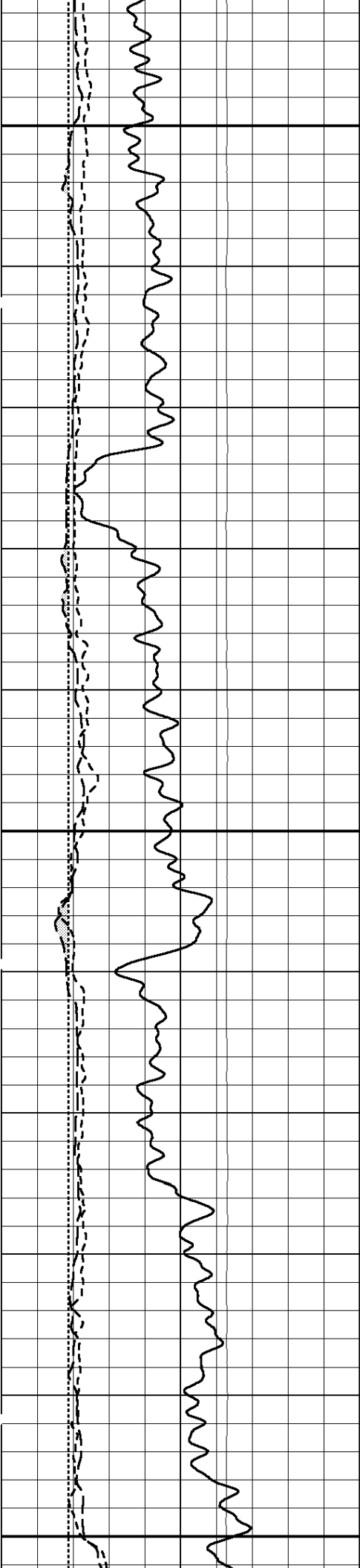


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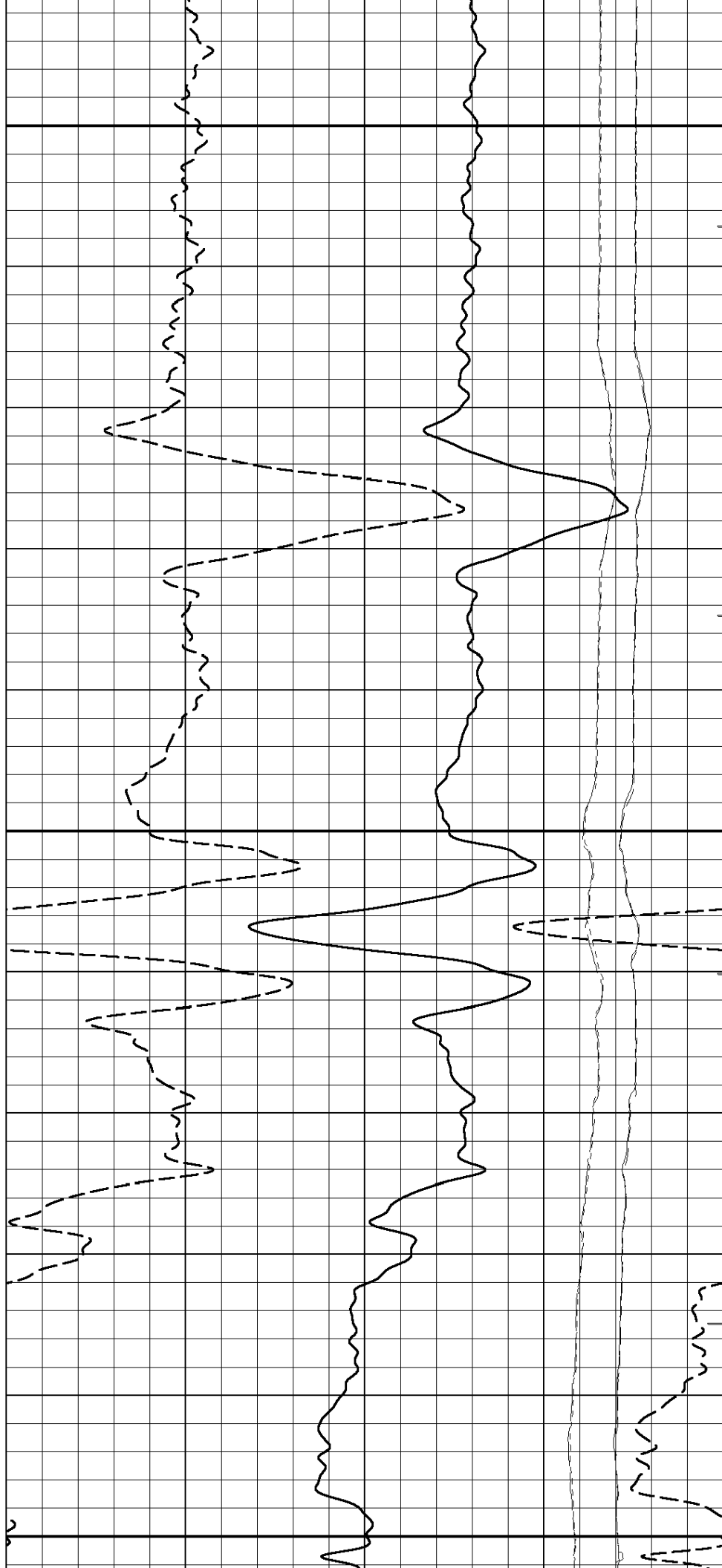


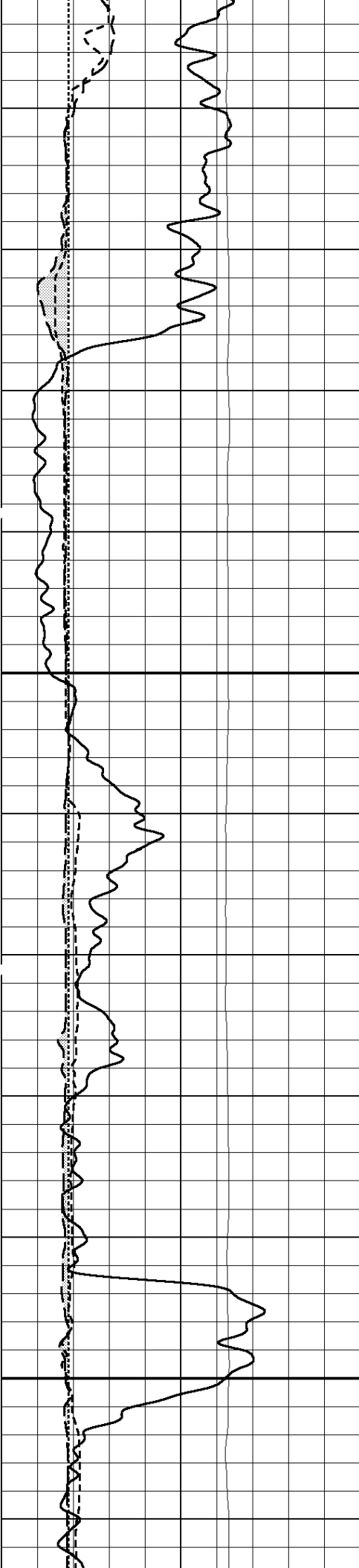


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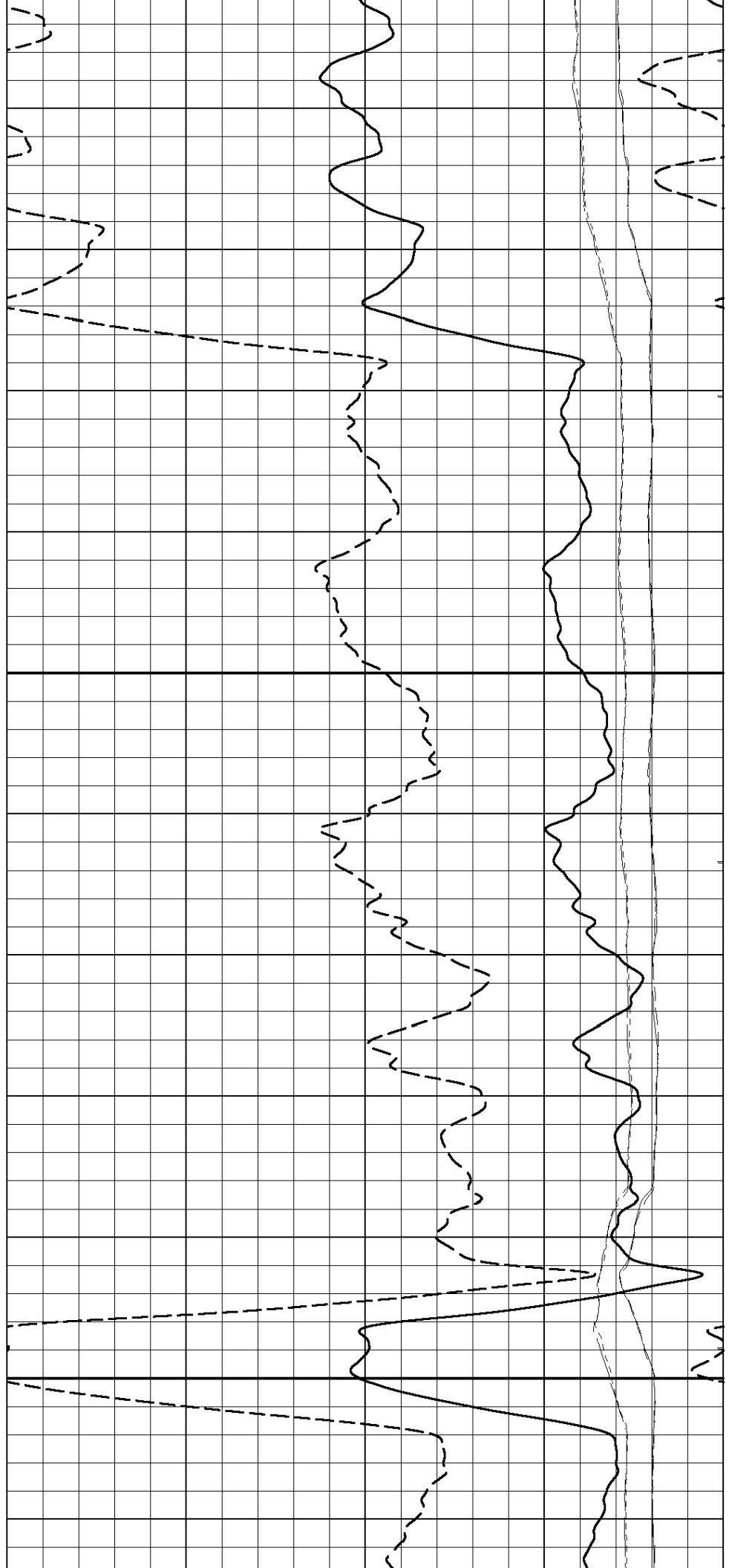
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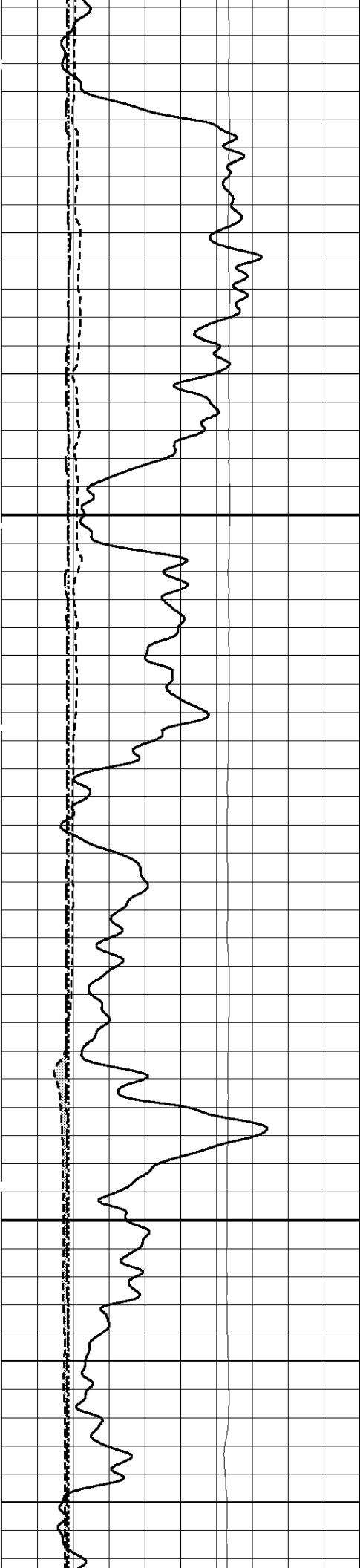




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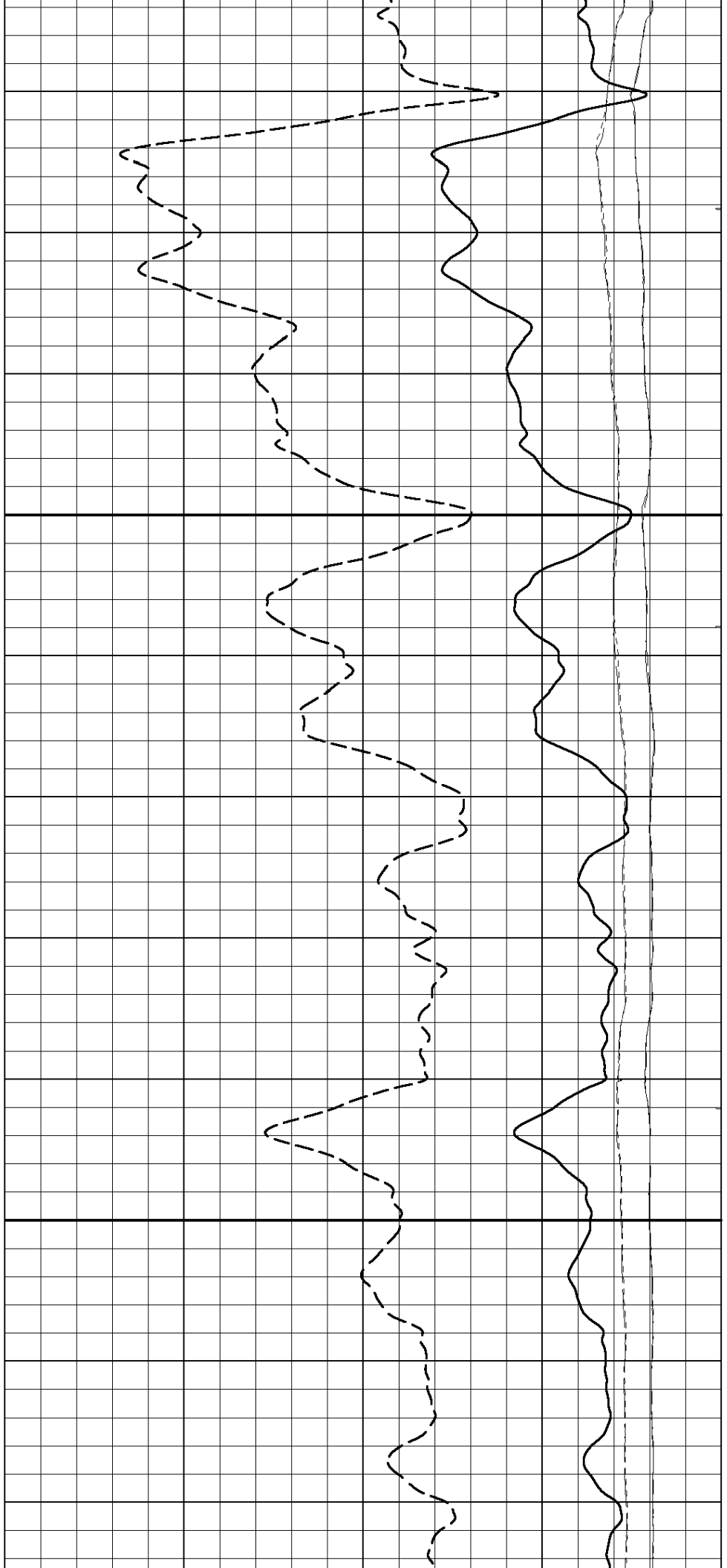


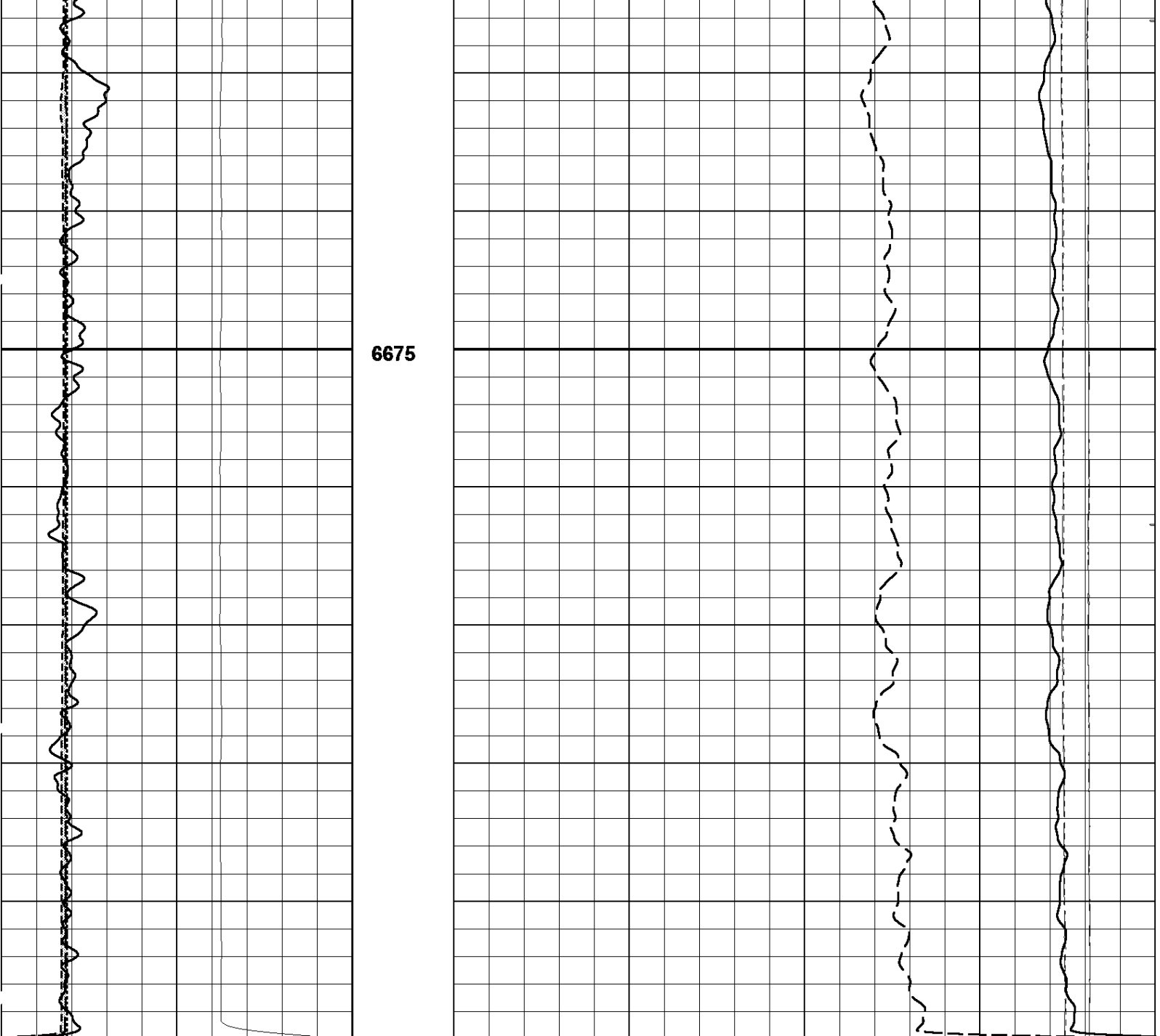
6600



6625

6650





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)		
10000.	Lbs	0.	1500.	usecs	0.
Bit Size (BIT)			TT (TT3-5ft)		
6.	Ref in	16.	1500.	usecs	0.
			TT (TT4-5ft)		
			1500.	usecs	0.

GAMMA RAY CALIBRATION

SERIAL NUM
BLANKET NUM

RG3011
1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 135.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	60.734 - raw	435.140 - raw	0.361 - gain 0.000 - off	M/D/Y> 2/7/2013	H:M:S> 14:15:20

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

SERIAL NUM

RL4101

MASTER CALIBRATIONS

	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2360.811 - raw	4312.826 - raw	0.002 - gain 1.162 - off	M/D/Y> 2/7/2013	H:M:S> 9:47:51

Y CALIPER CALIBRATIONS

SERIAL NUM

RN2007

MASTER CALIBRATIONS

	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	734.921 - raw	1470.267 - raw	0.005 - gain 2.002 - off	M/D/Y> 2/7/2013	H:M:S> 15:16:2

Company

MIDWESTERN EXPLORATION, LLC.

Well

GOOCH #1-8

Field

GOOCH

County

STEVENS

State

KANSAS

RECON

BHC SONIC
GAMMA RAY
X-Y CALIPER



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