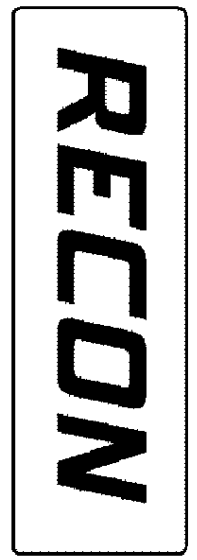


Company **GRAND MESA OPERATING CO.**
 Well **PARKINSON-GOUGH #1-8**
 Field **WILDCAT**
 County **SCOTT**
 State **KANSAS**



FULL WAVEFORM
SONIC
GAMMA RAY
X-Y CALLIPER

SEC	TWP	RGE	OTHER SERVICES:	
08	17S	33W	DIL	LDT
Location: 1885' FSL & 2050' FWL		NW SE NE SW	CNL	MEL
SURF. SAME	AP#:	015-171-21098	ELEVATIONS	
Permanent Datum	Ground Level	Elev	K.B.	3089
Log Measured From	Kelly Bushing		G.L.	3080
Drilling Measured From	Kelly Bushing		D.F.	3088

Date	30-OCT-2014			
Run No.	ONE			
TD Driller	5050	ft		ft
TD RECON	5053	ft		ft
Bot Logged Interval	5052	ft		ft
Top Logged Interval	2400	ft		ft
Casing Depth Driller	8 5/8	in.	@ 222	in.
Casing Depth RECON	8 5/8	in.	@ 220	in.
Bit Size	7 7/8	in.		in.
Drilling Fluid Type	Chemical			
Density	9.2	lb/gal	\$5	sec/qt
Fluid Loss	9.6	ml/30min	10.0	strip
PH	Flowline			
Source Of Sample				
RM @ Measured Temp	0.475	Ohmm	@ 75	Ohmm @
RMF @ Measured Temp	0.356	Ohmm	@ 75	Ohmm @
RMC @ Measured Temp	0.594	Ohmm	@ 75	Ohmm @
RM @ MRT	0.295	Ohmm	@ 125	Ohmm @
Max Recorded Temp	125	DegF		DegF
Time Drilling Stopped	29-OCT-2014		20:30	
Time Circulation Stopped	29-OCT-2014		22:00	
Time Logger On Bottom	30-OCT-2014		01:57	
Unit Num	S409	Location	OKLAHOMA CITY, OK	
Recorded By	H. GARCIA			
Witnessed By	MR. K. MATSON			

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. #4
------------------	---------------

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
 CNL AND LDT LOGGED IN A LIMESTONE MATRIX
 TOP MARK - 297, BOTTOM MARK - 5002.6
 CNL/LDT LOGGED MATRIX: 2.71 g/cc.

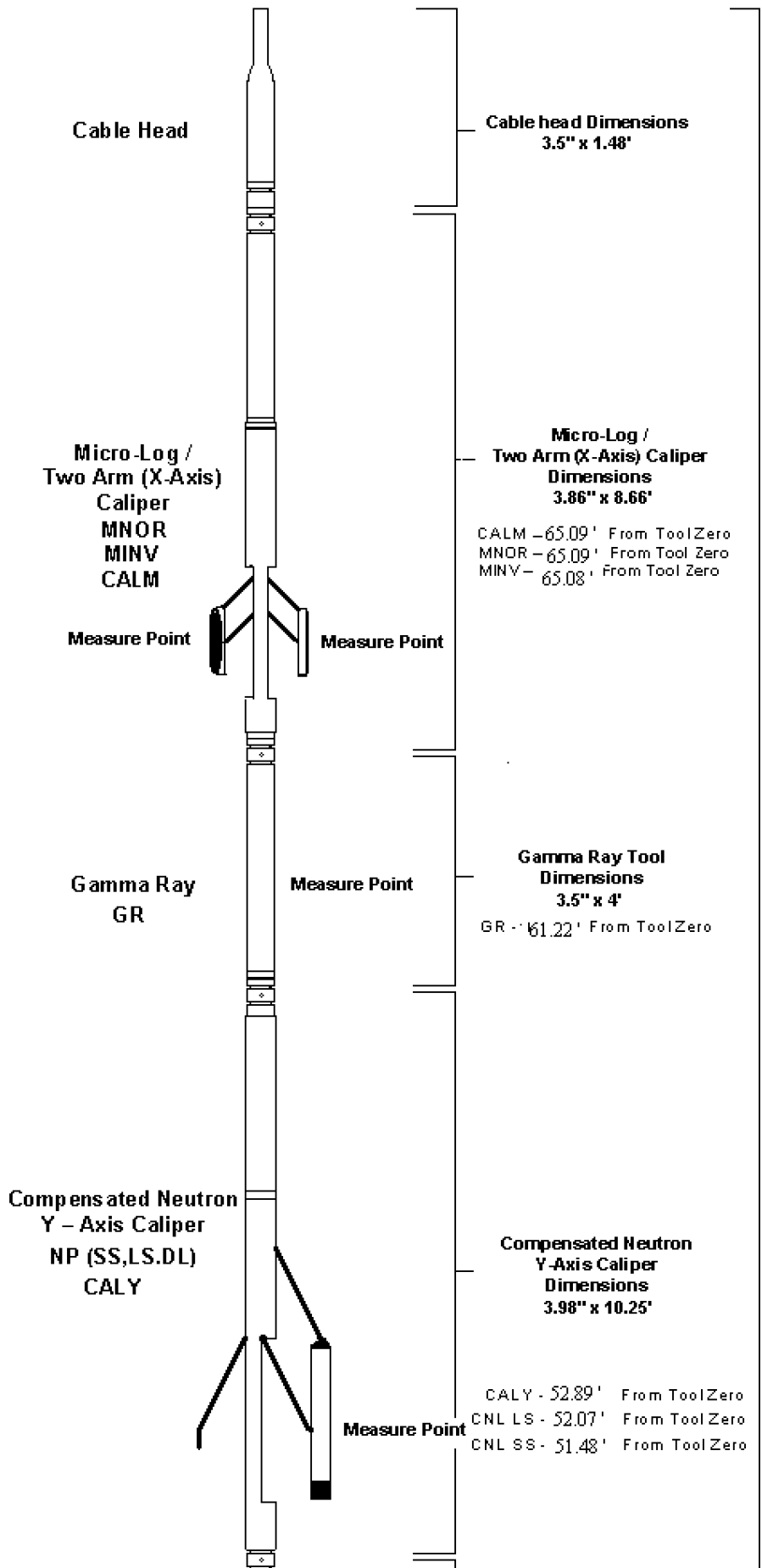
CHLORIDES: 8000 ppm
 LCM: 2 lbs/bbl

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

AHV CALCULATED ON 5.5" PROD. CASING

CREW: M. CALLENTINE

**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**

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 -
LDT w3 - } -38.68' From ToolZero
LDT w4 -
LDT SS - 38.19' From ToolZero

**Tool String
Length Total
73.64'**

**Borehole
Compensated
Sonic**

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

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

T-1
Transmitter 1

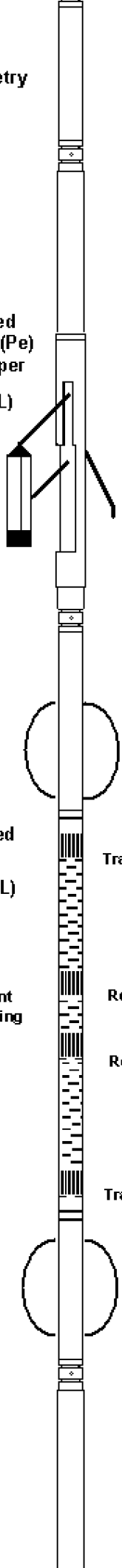
T1R1 - 33.35' From ToolZero
T1R2 - 31.35' From ToolZero

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



S.P. / CILD Measure Point

CILM Measure Point

Laterolog 3 Measure Point

Tool Zero Point (Tool Bottom)

Dual Induction Tool Dimensions
3.62" x 21'

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

ILM - 7.22' From ToolZero

LL3 - 1.67' From ToolZero

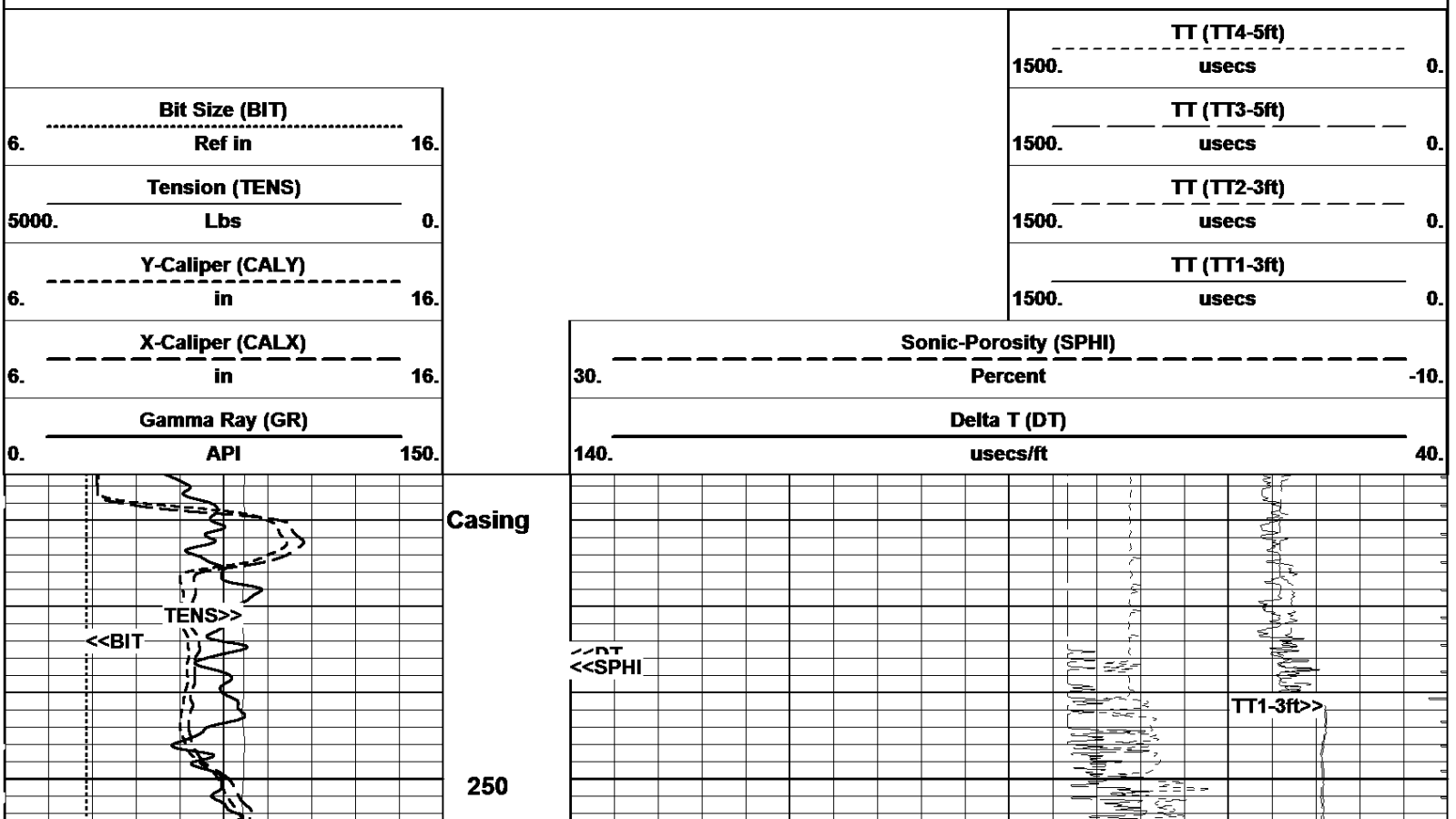
All Measurements are taken from Tool Zero

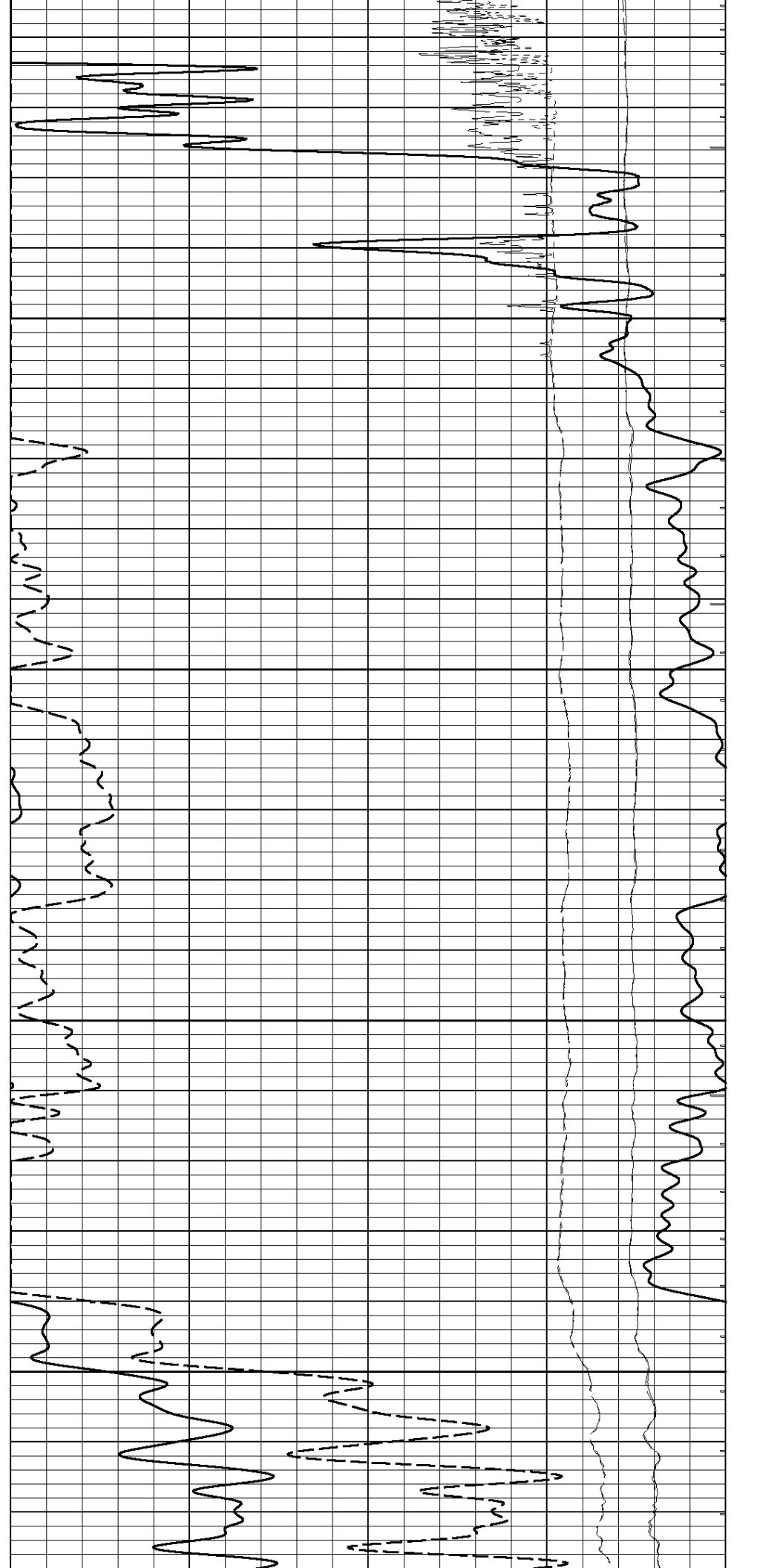
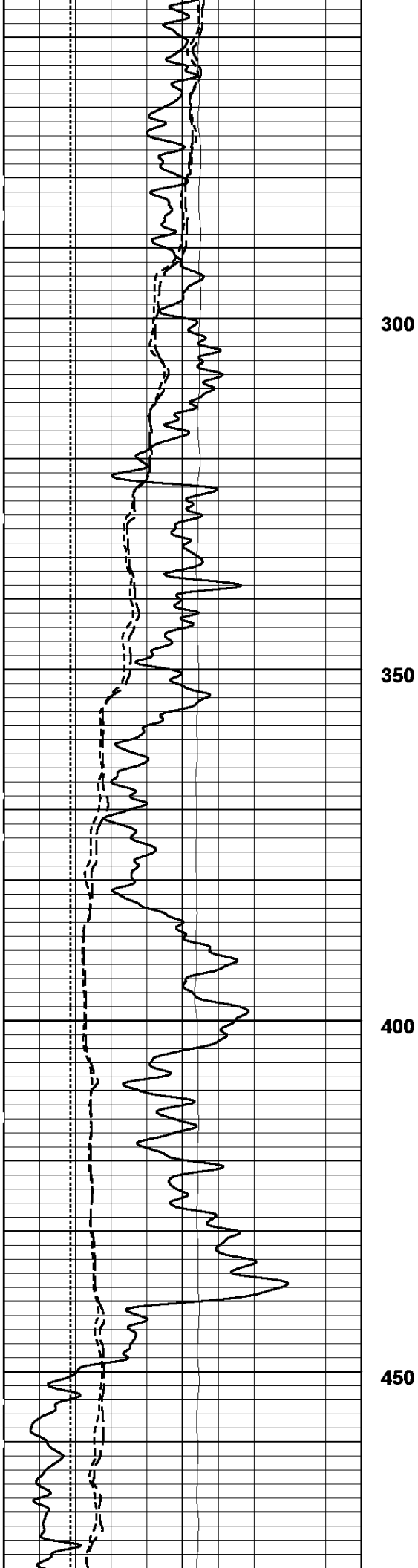
Tool First Reading Point

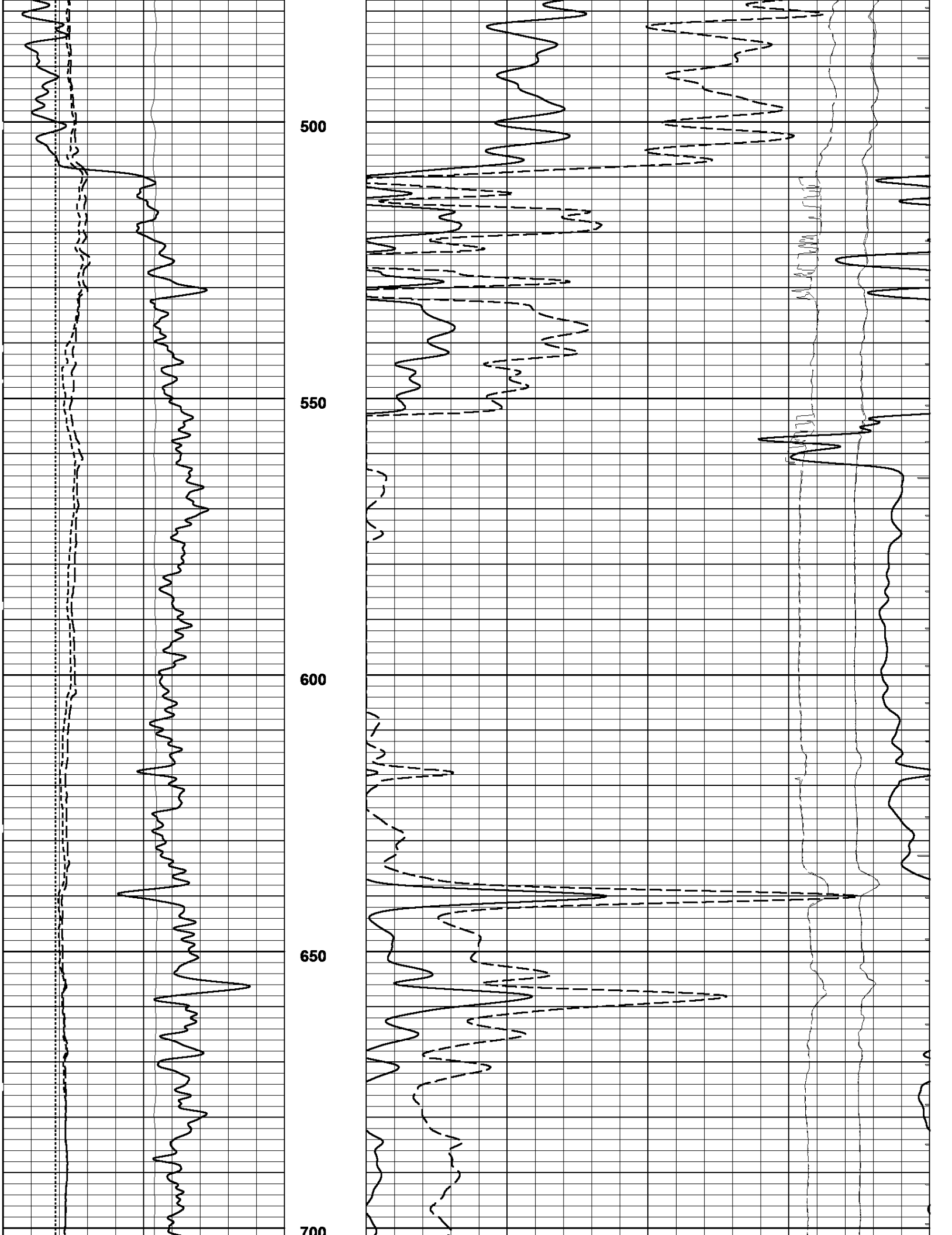
10/30/2014
02:33:40 => End Time

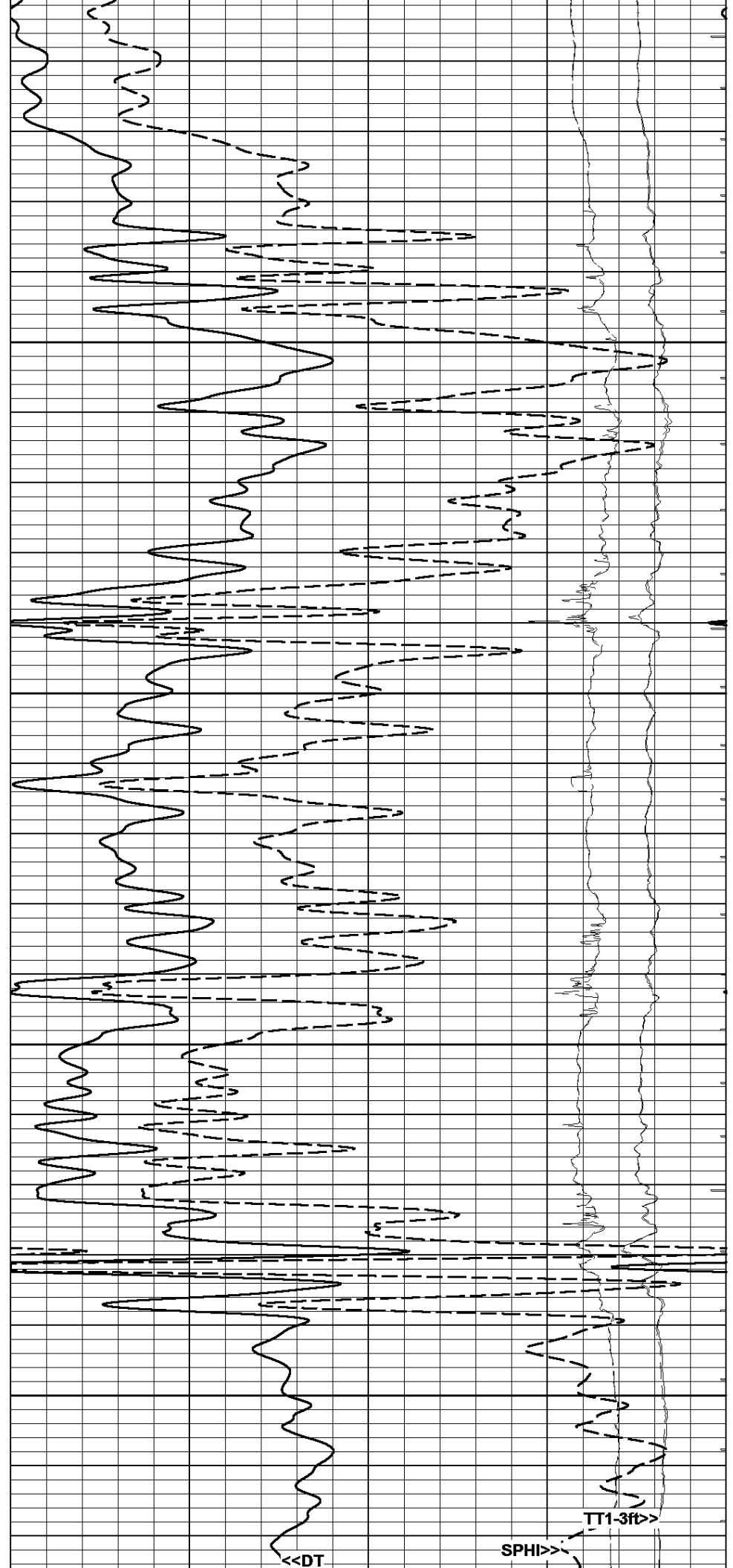
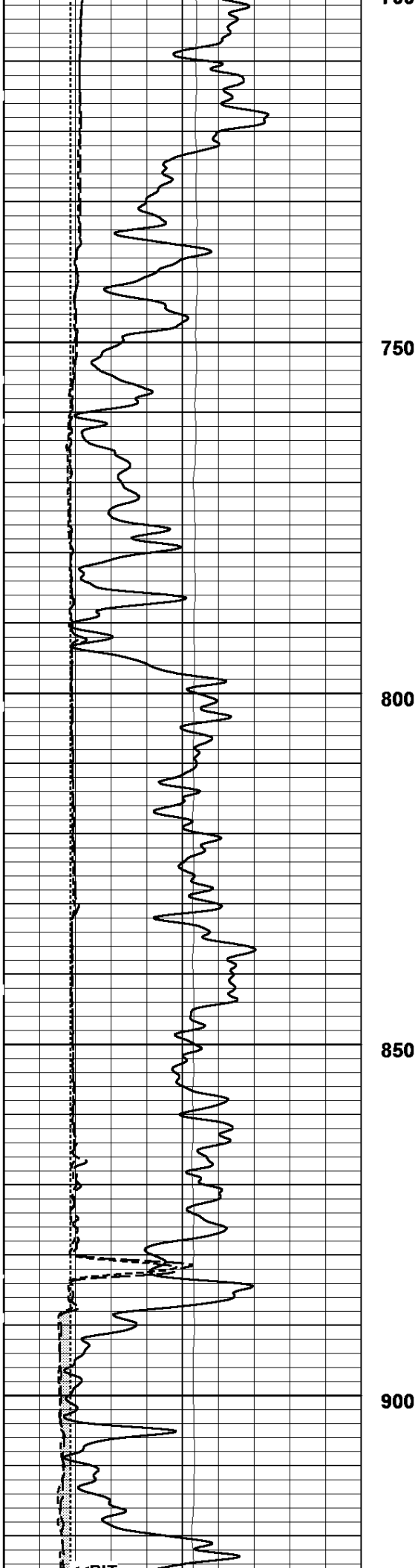
MAIN PASS (5"/100ft)

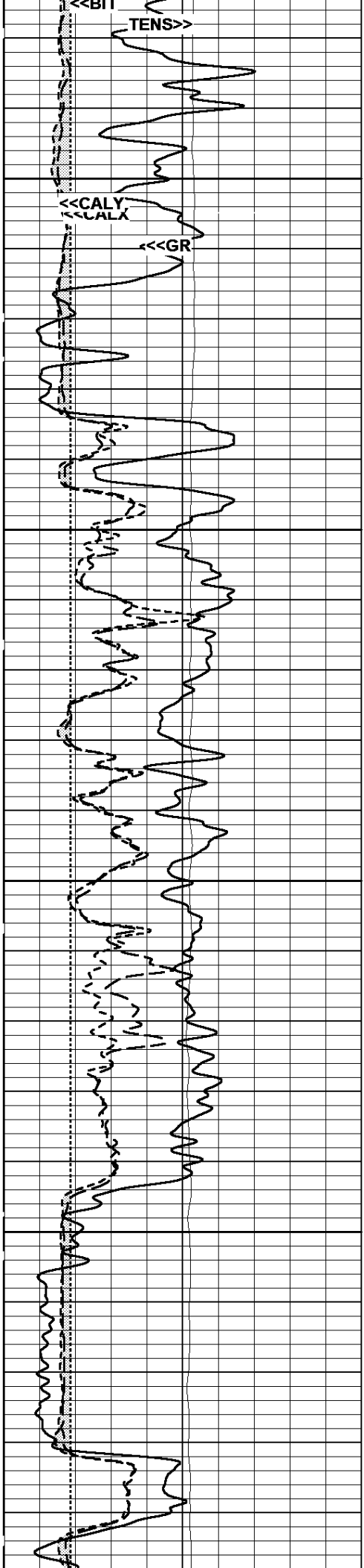
Log UP - (VER 11.19)
End Depth=> 214.90 Feet









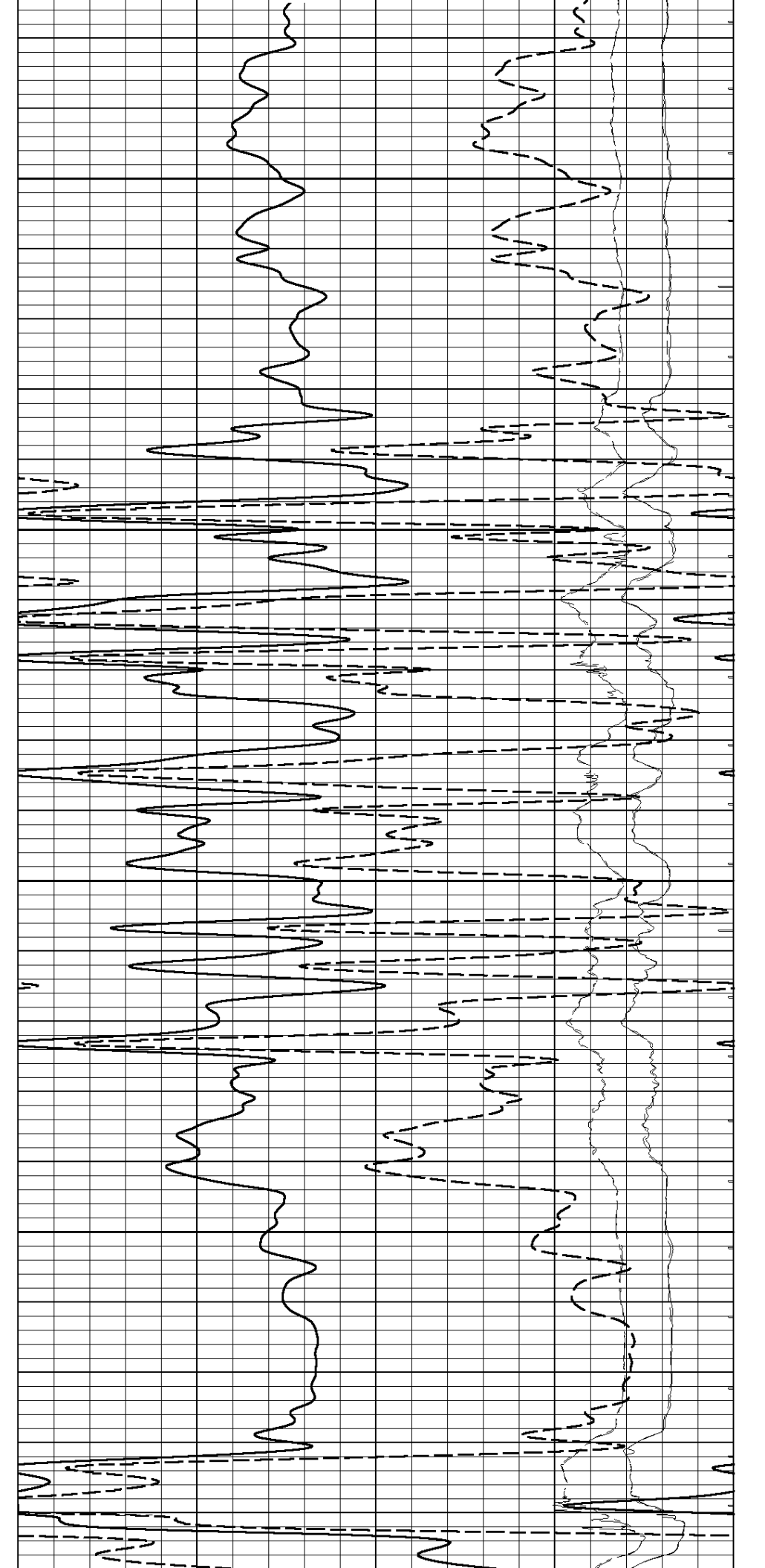


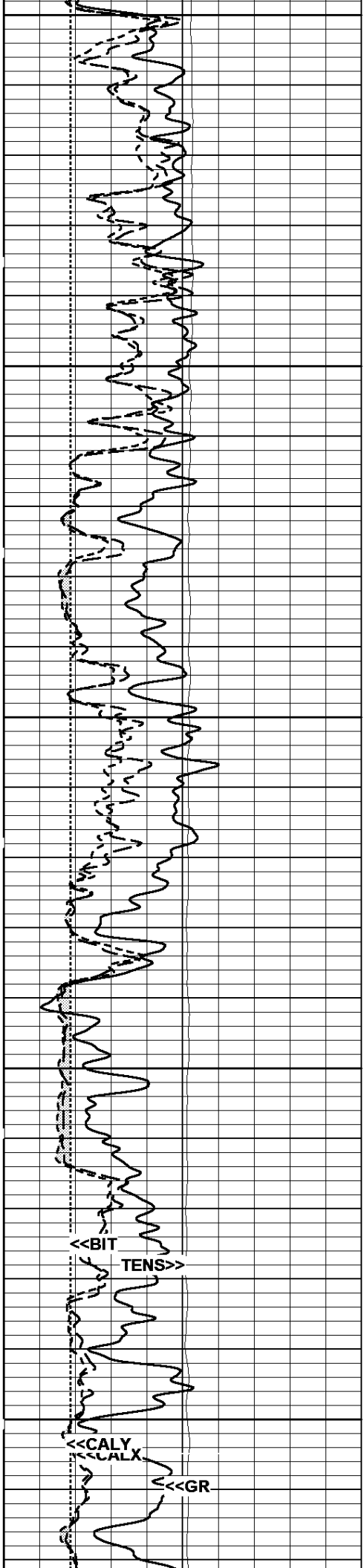
950

1000

1050

1100





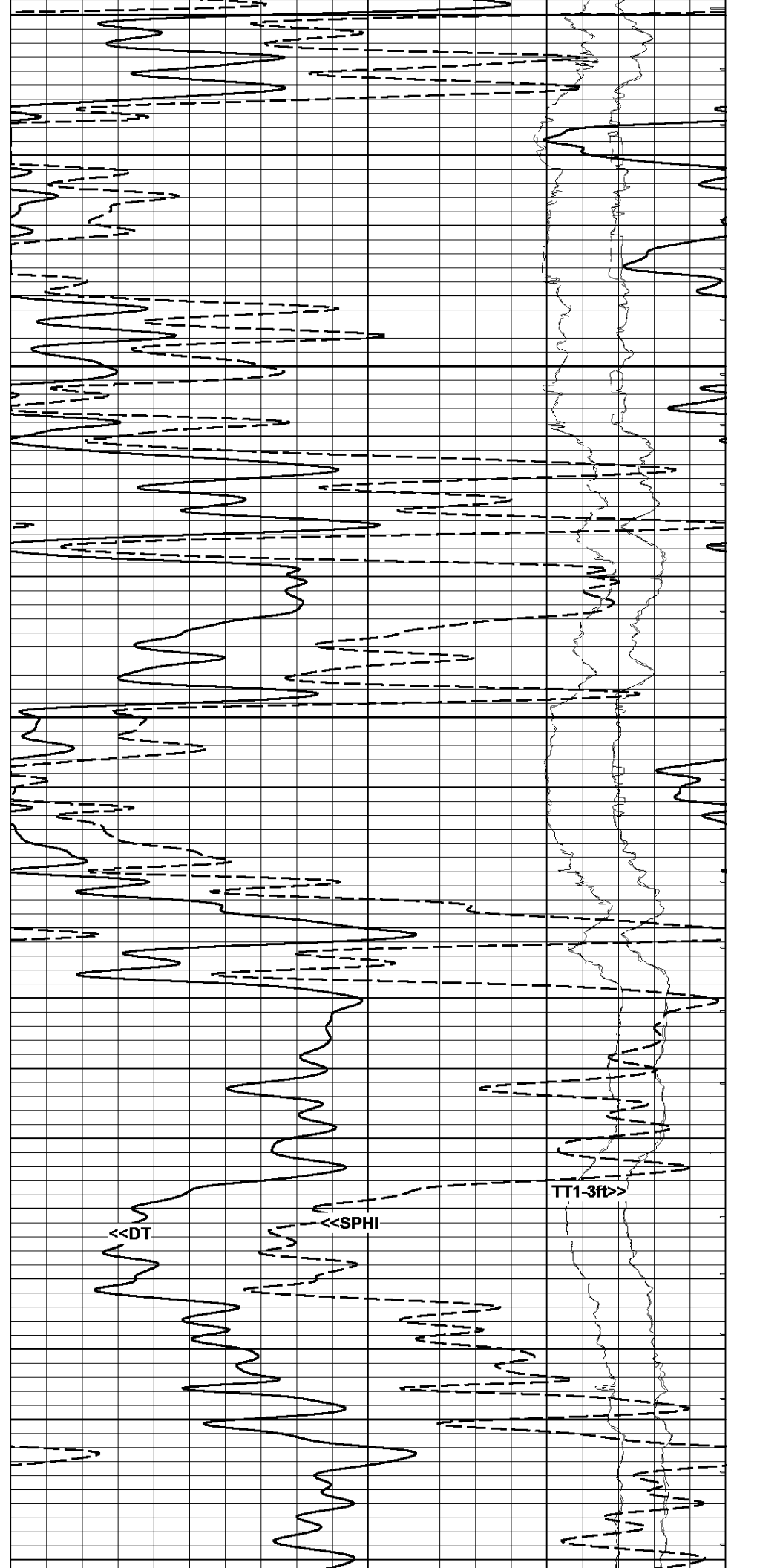
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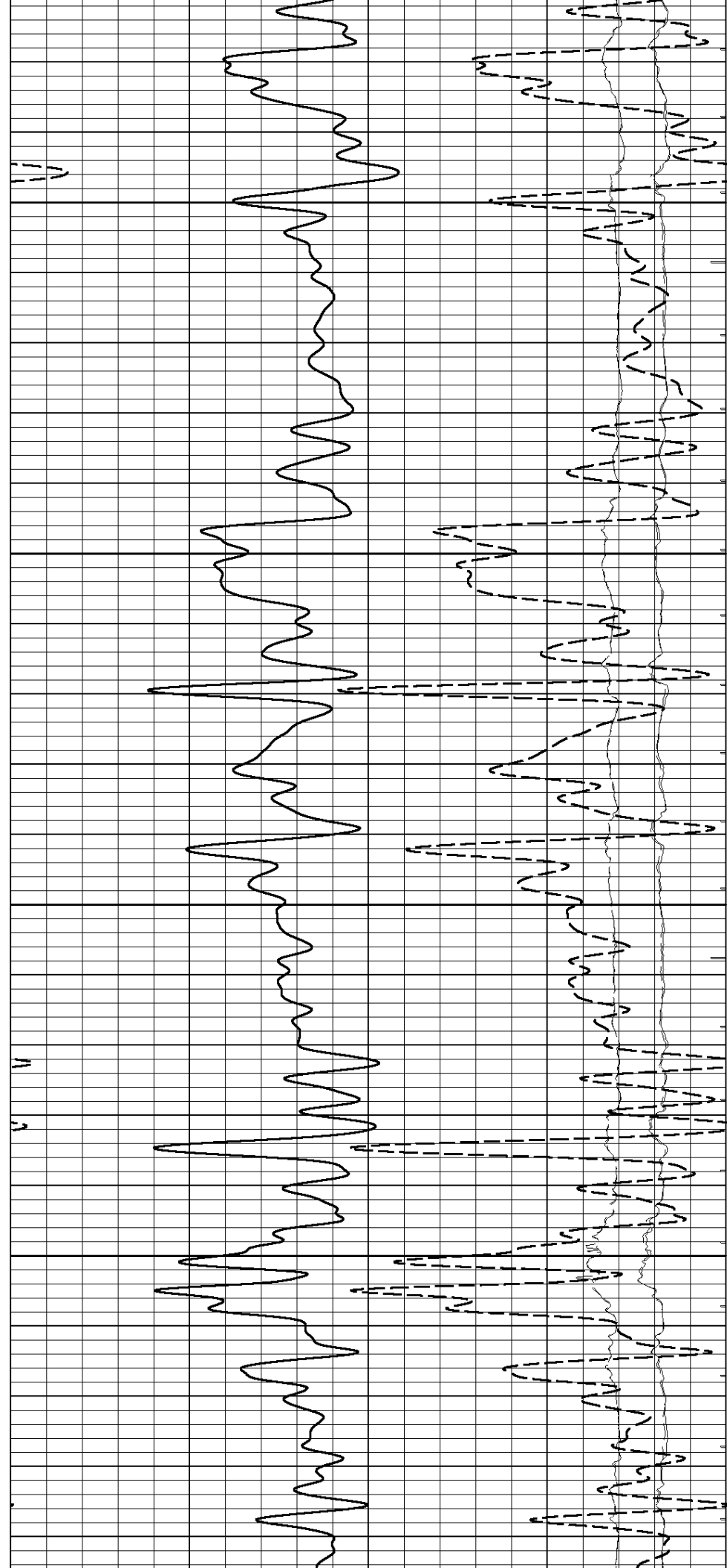
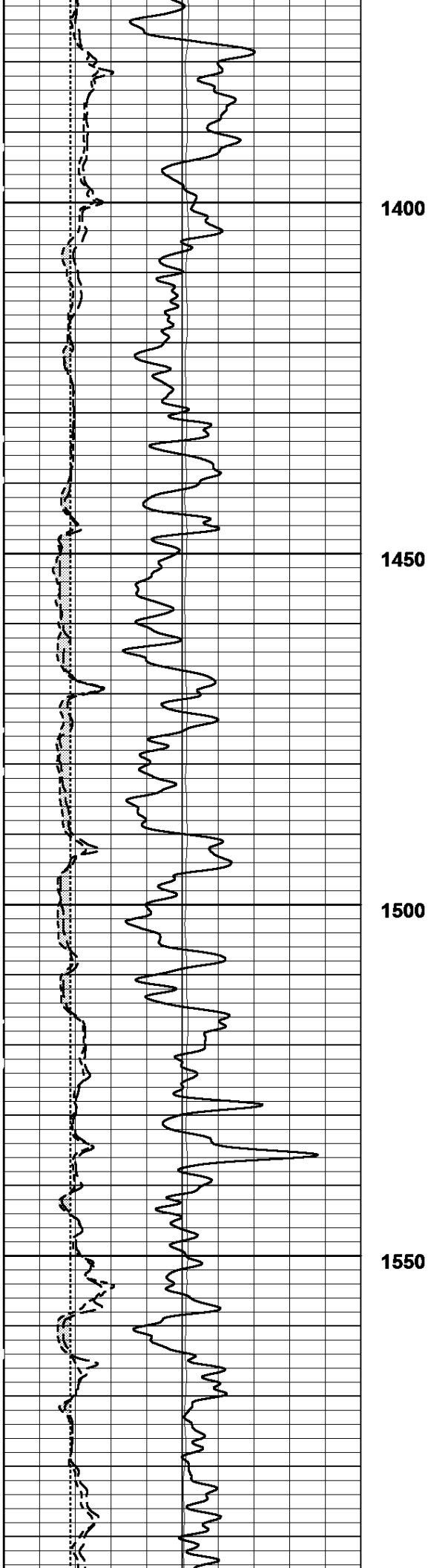
1200

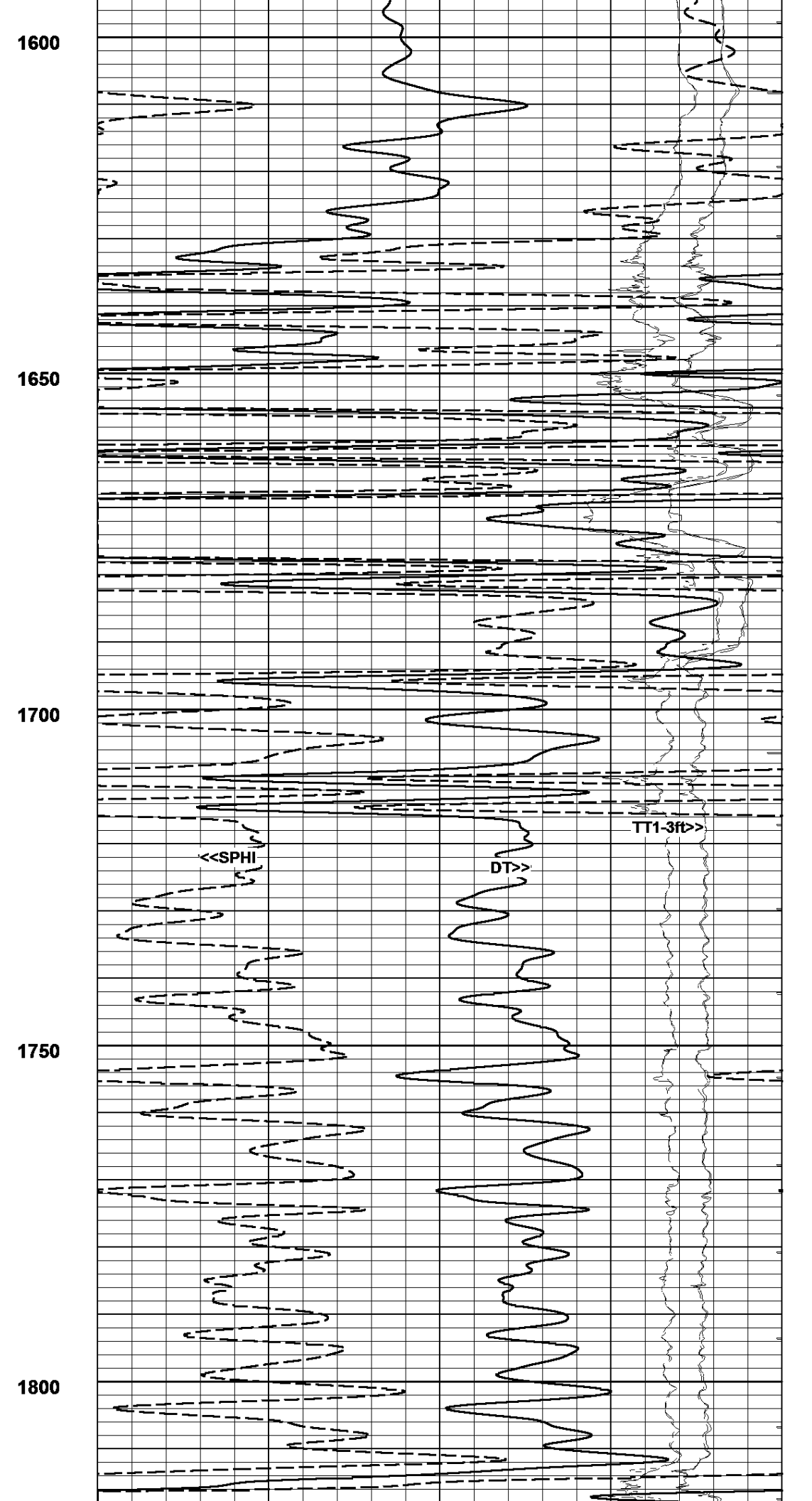
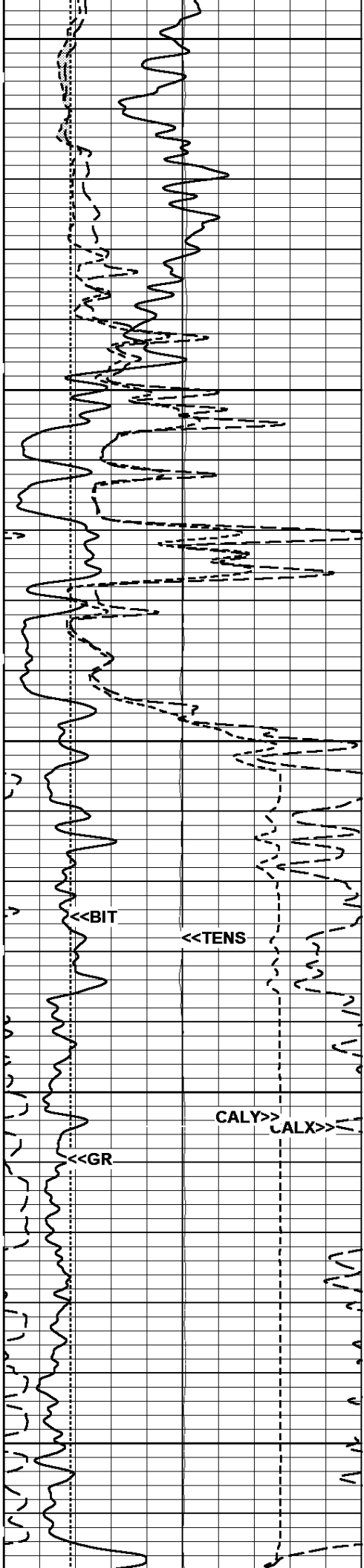
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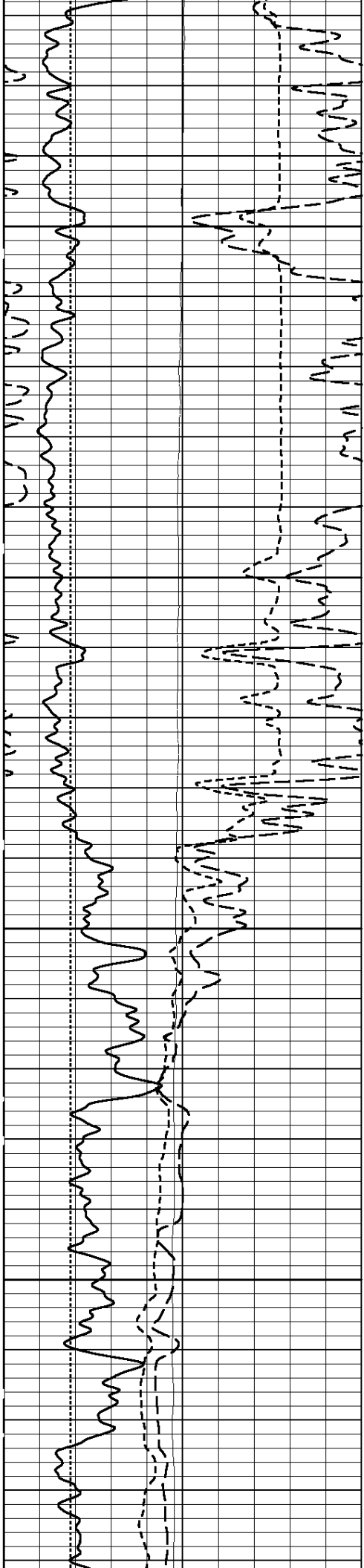
1300

1350







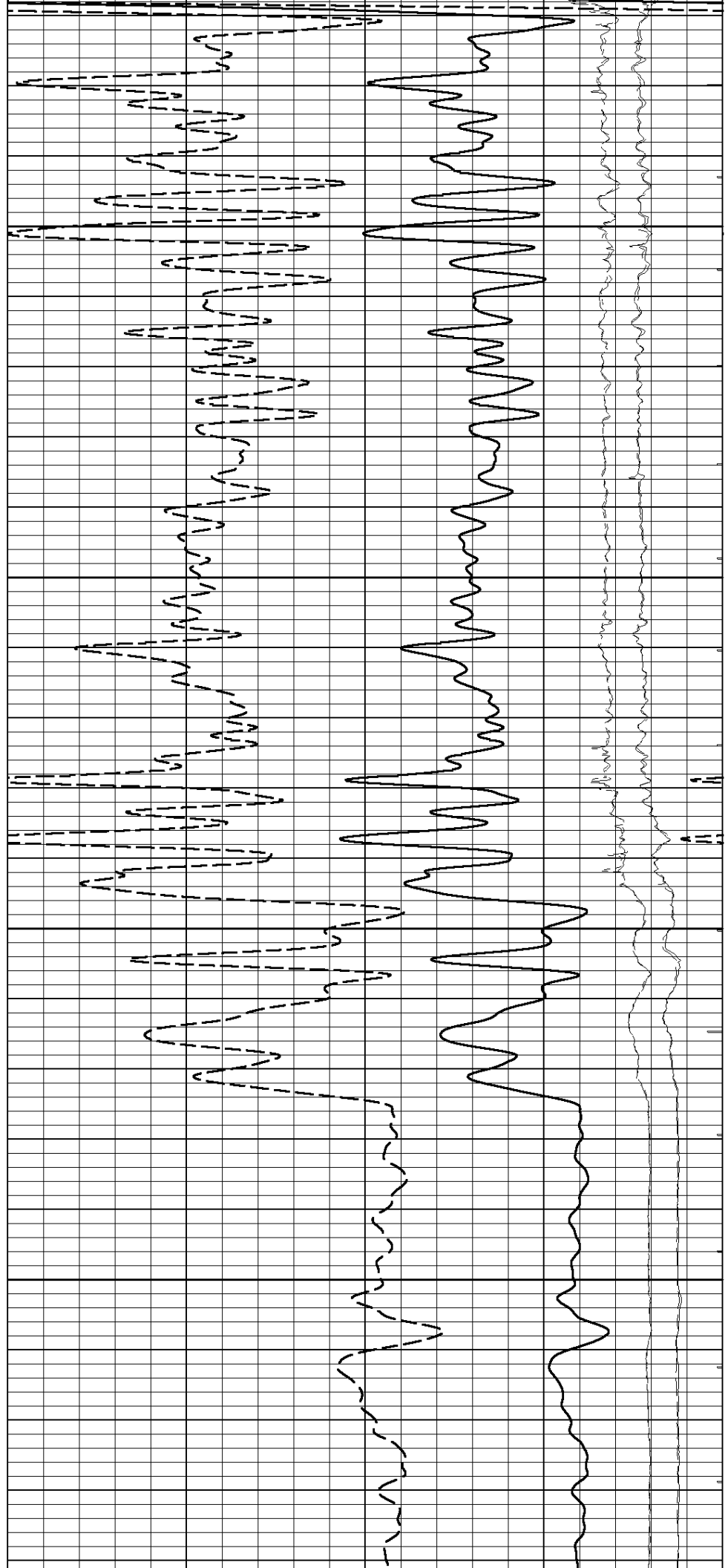


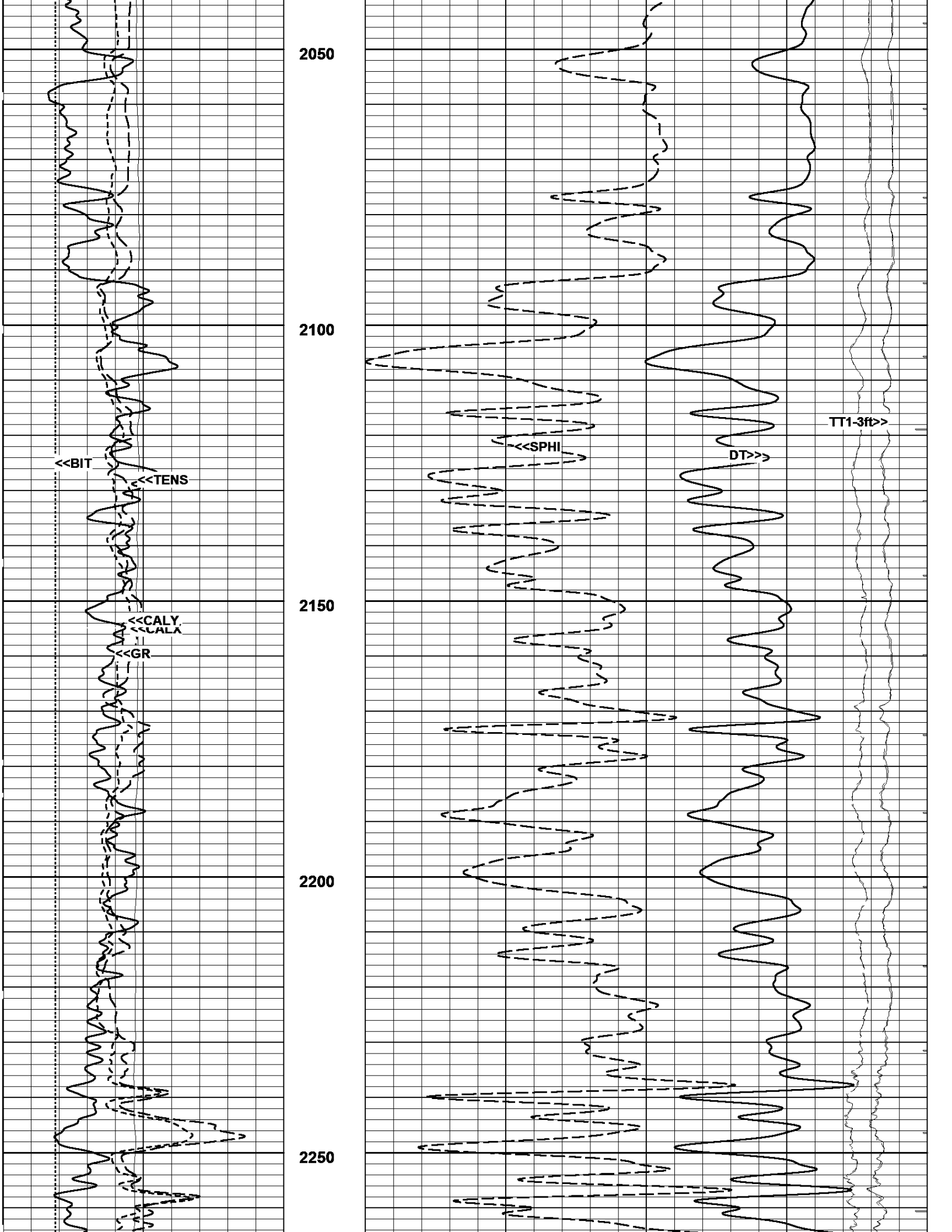
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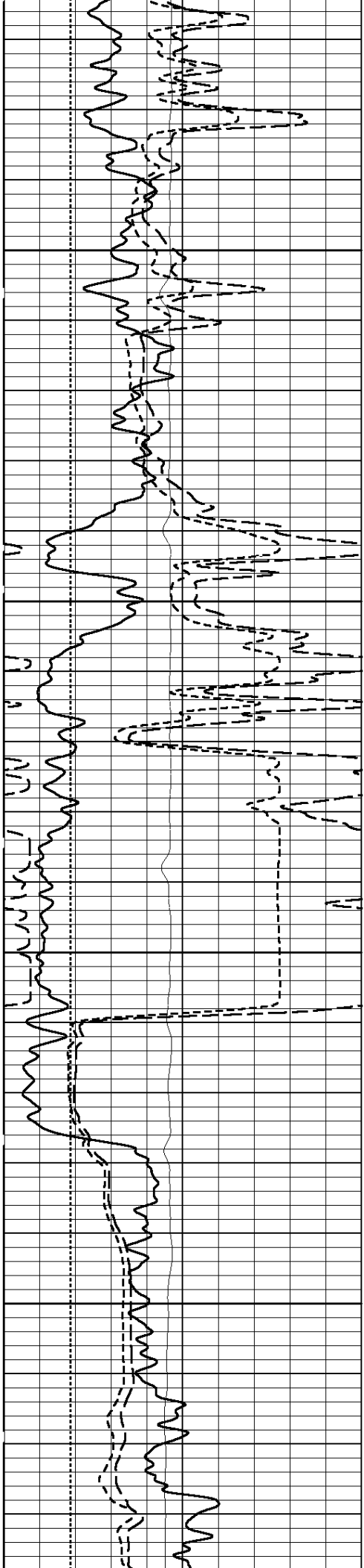
1900

1950

2000





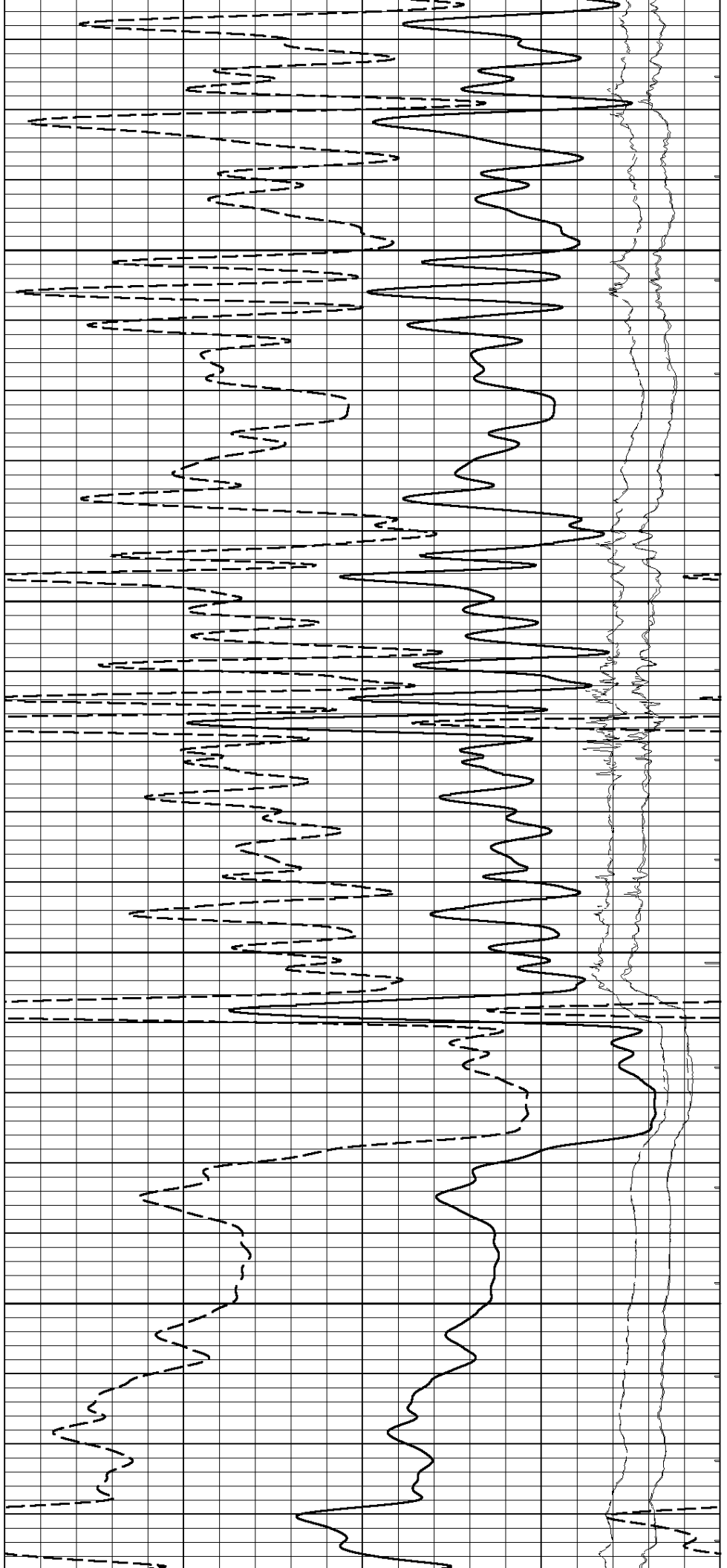


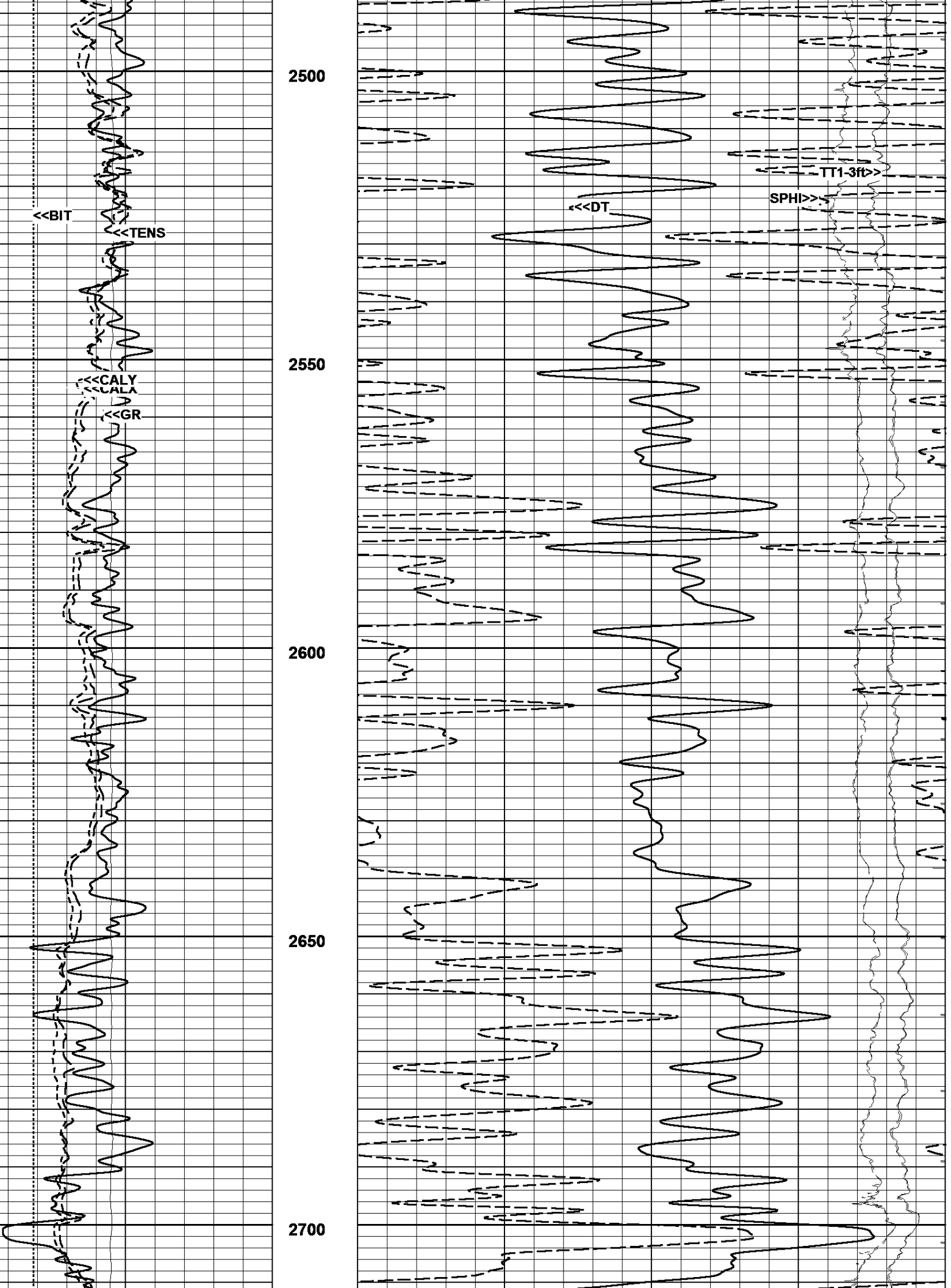
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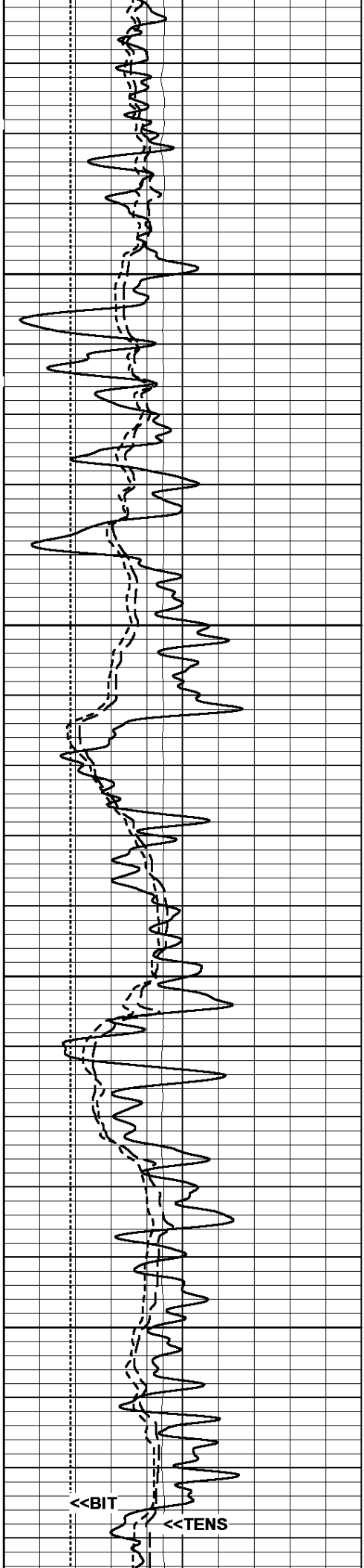
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2400

2450





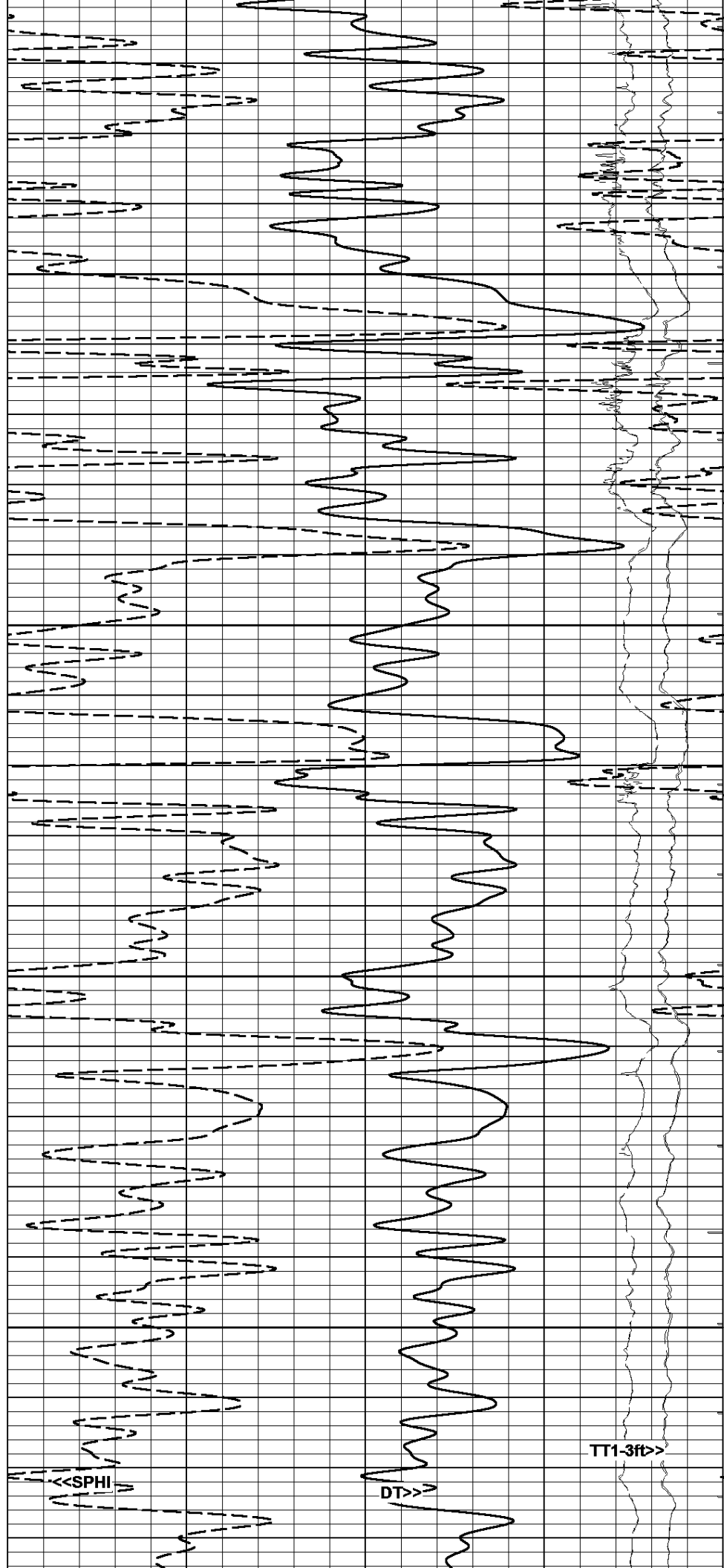


2750

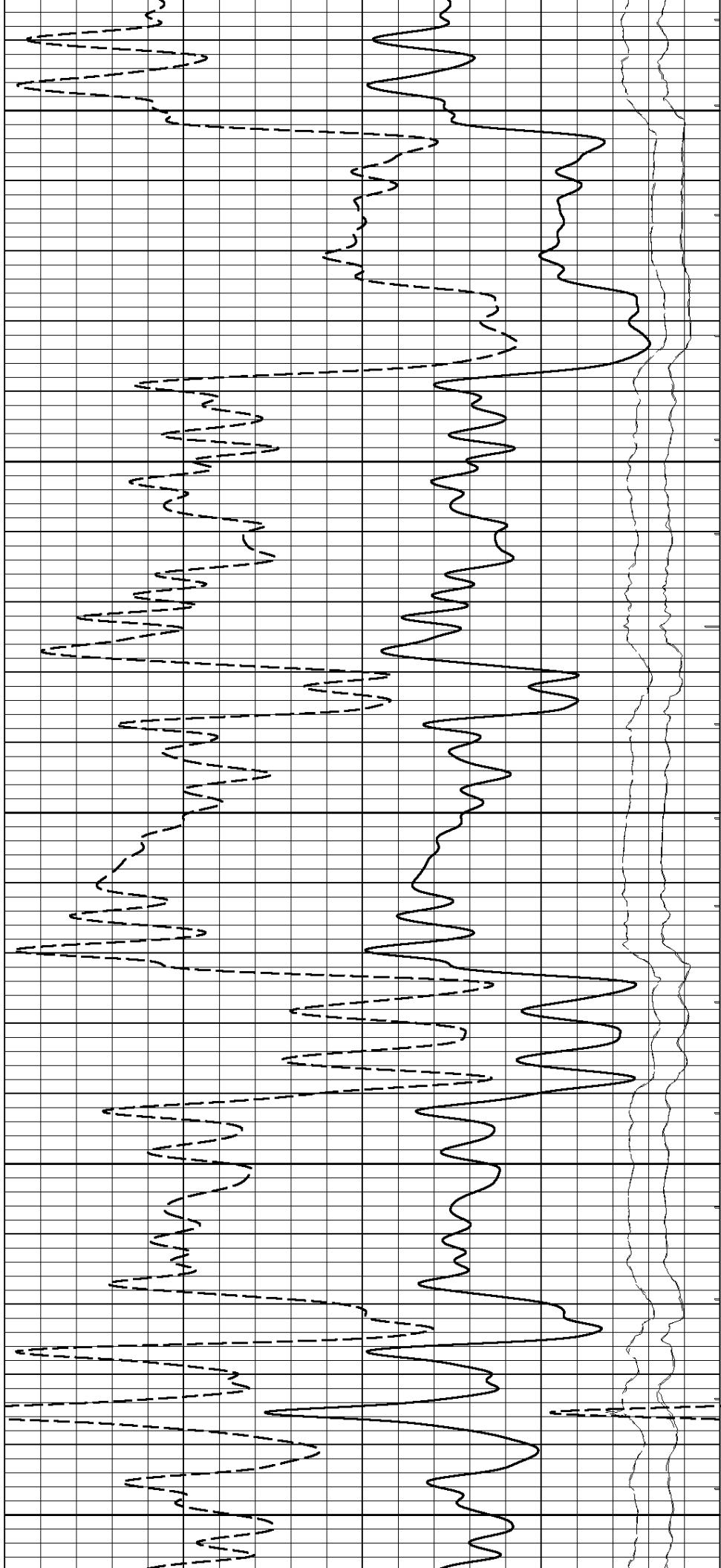
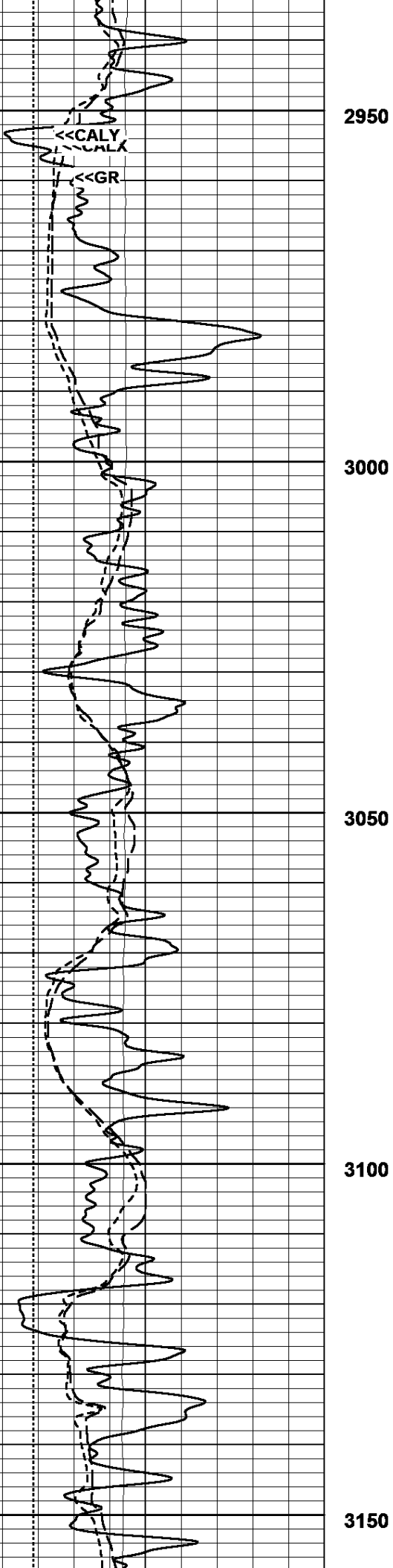
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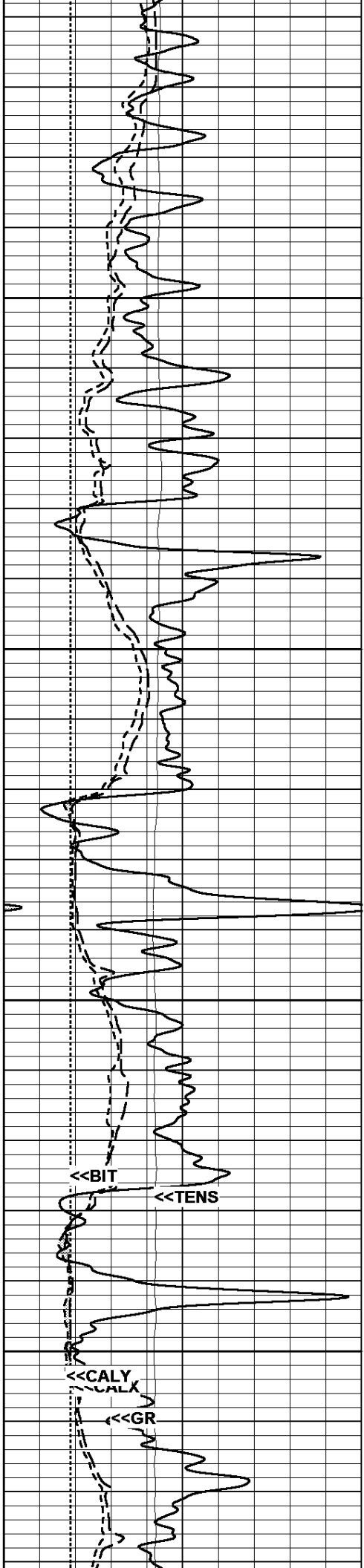
2850

2900



TT1-3ft>>



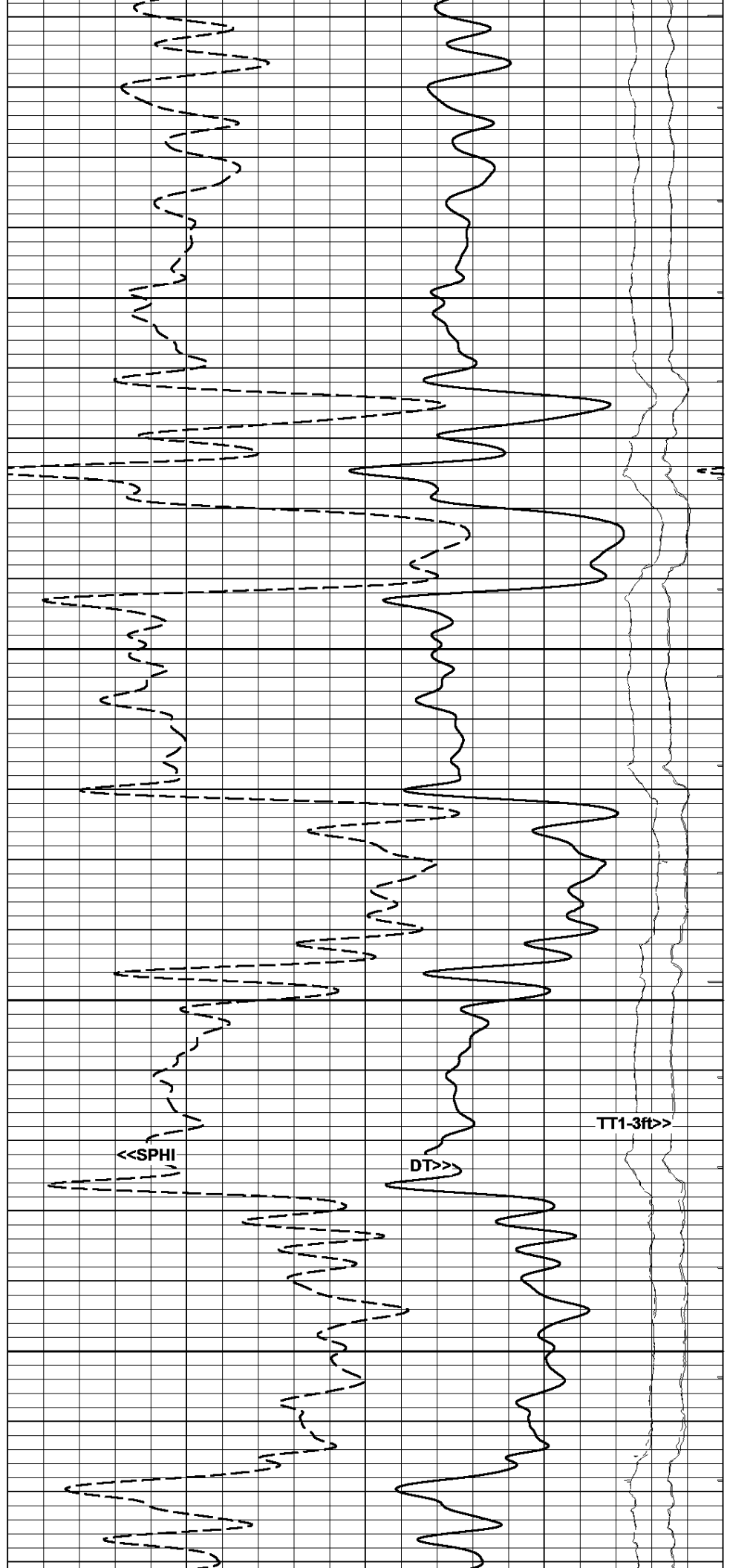


3200

3250

3300

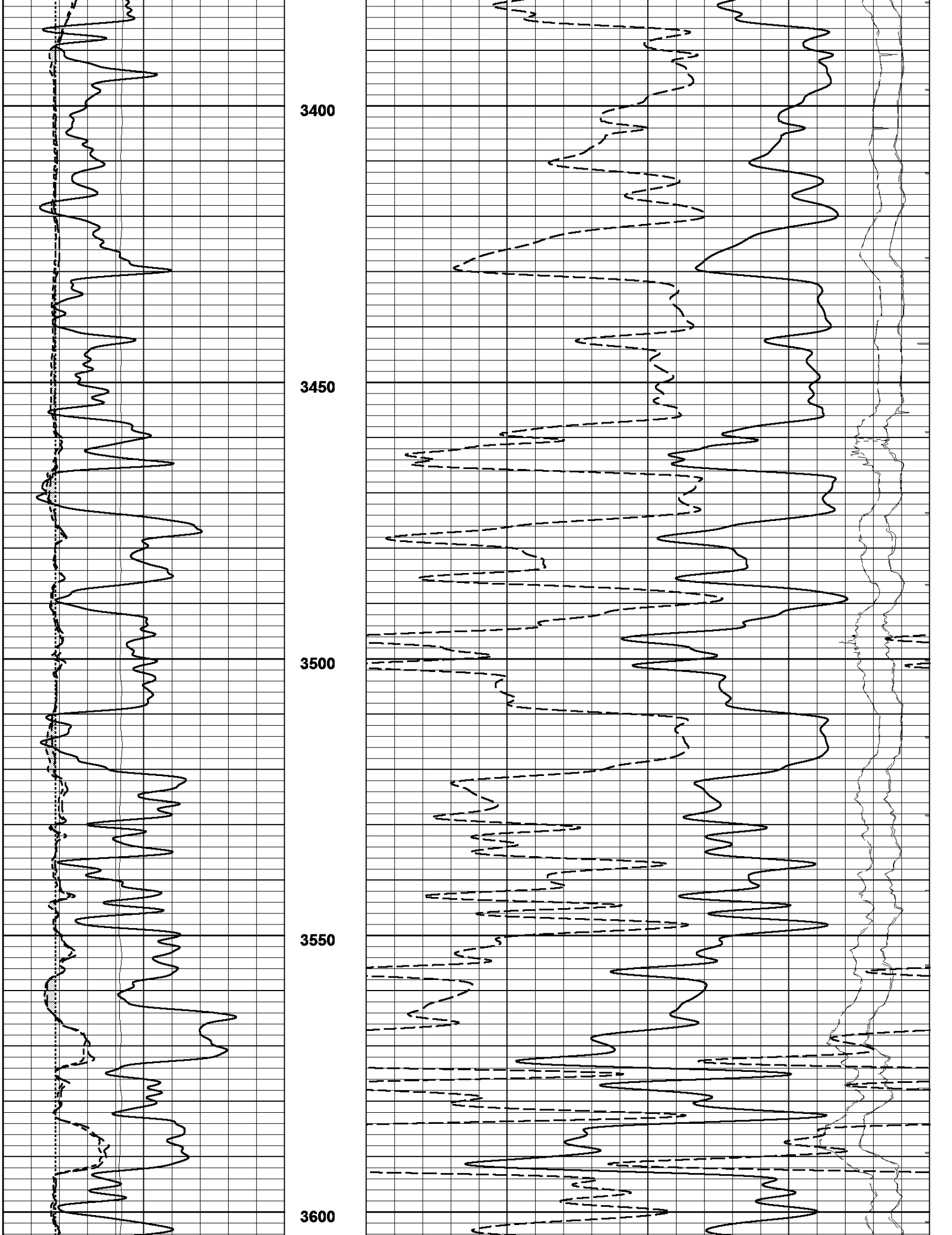
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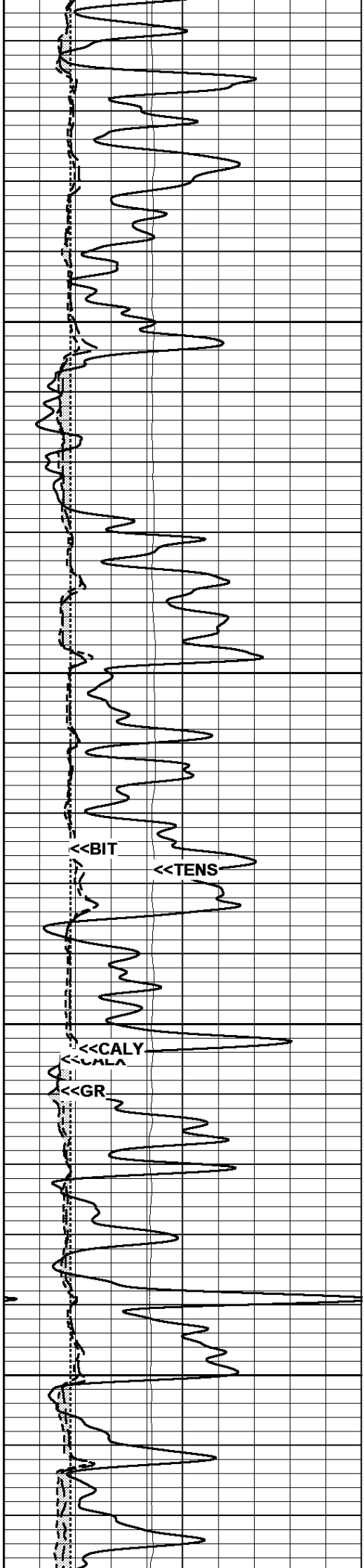


<<SPHI

<<DT>>

<<TT1-3ft>>



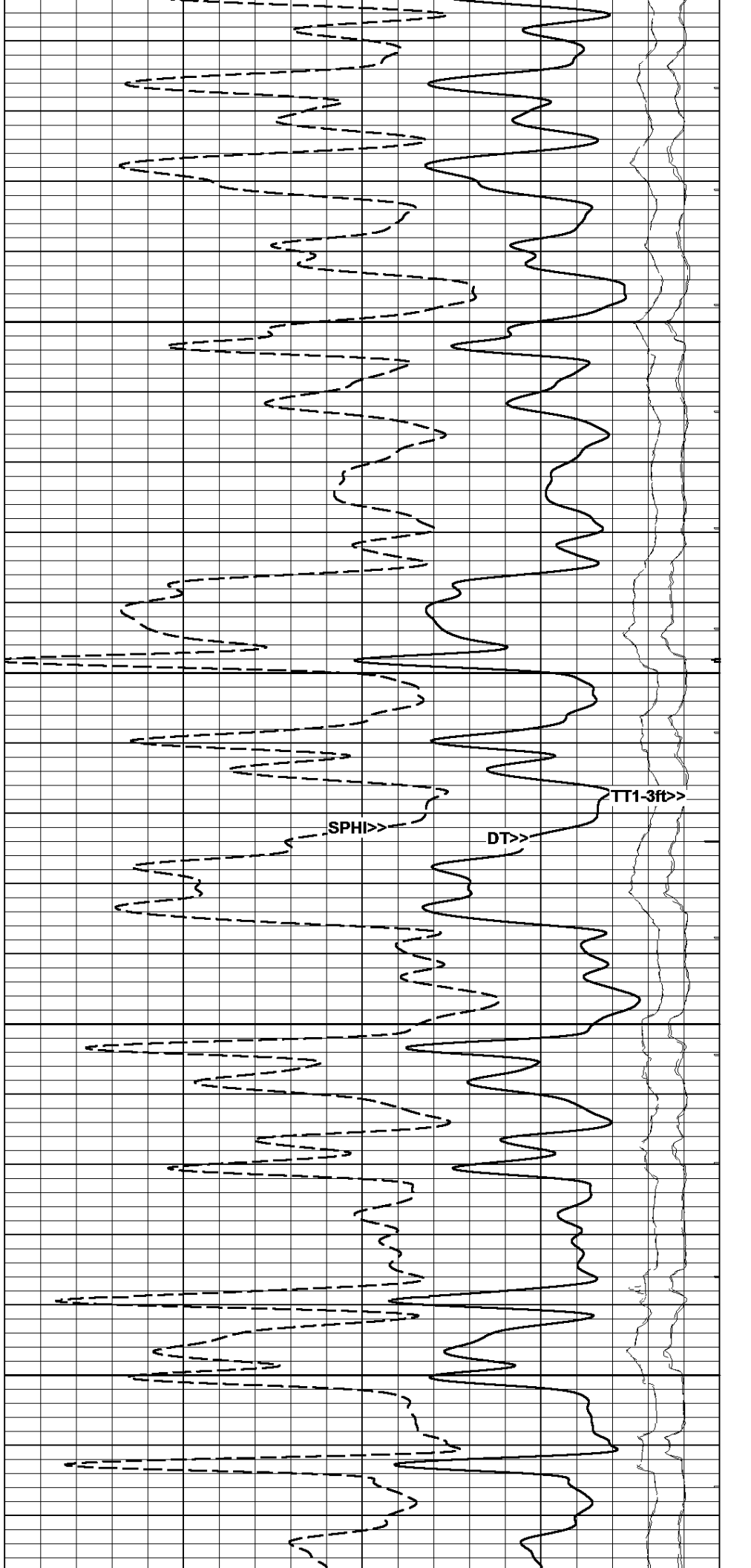


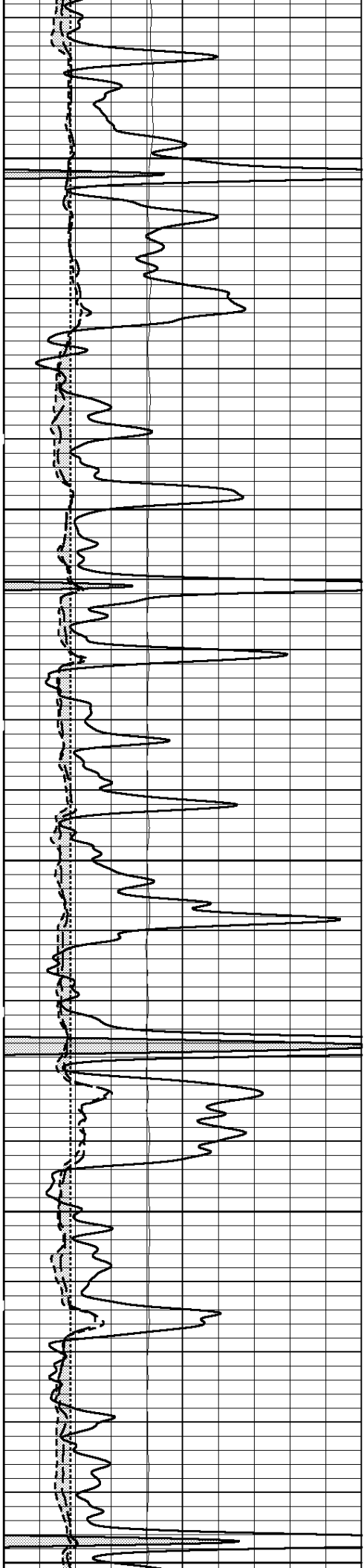
3650

3700

3750

3800





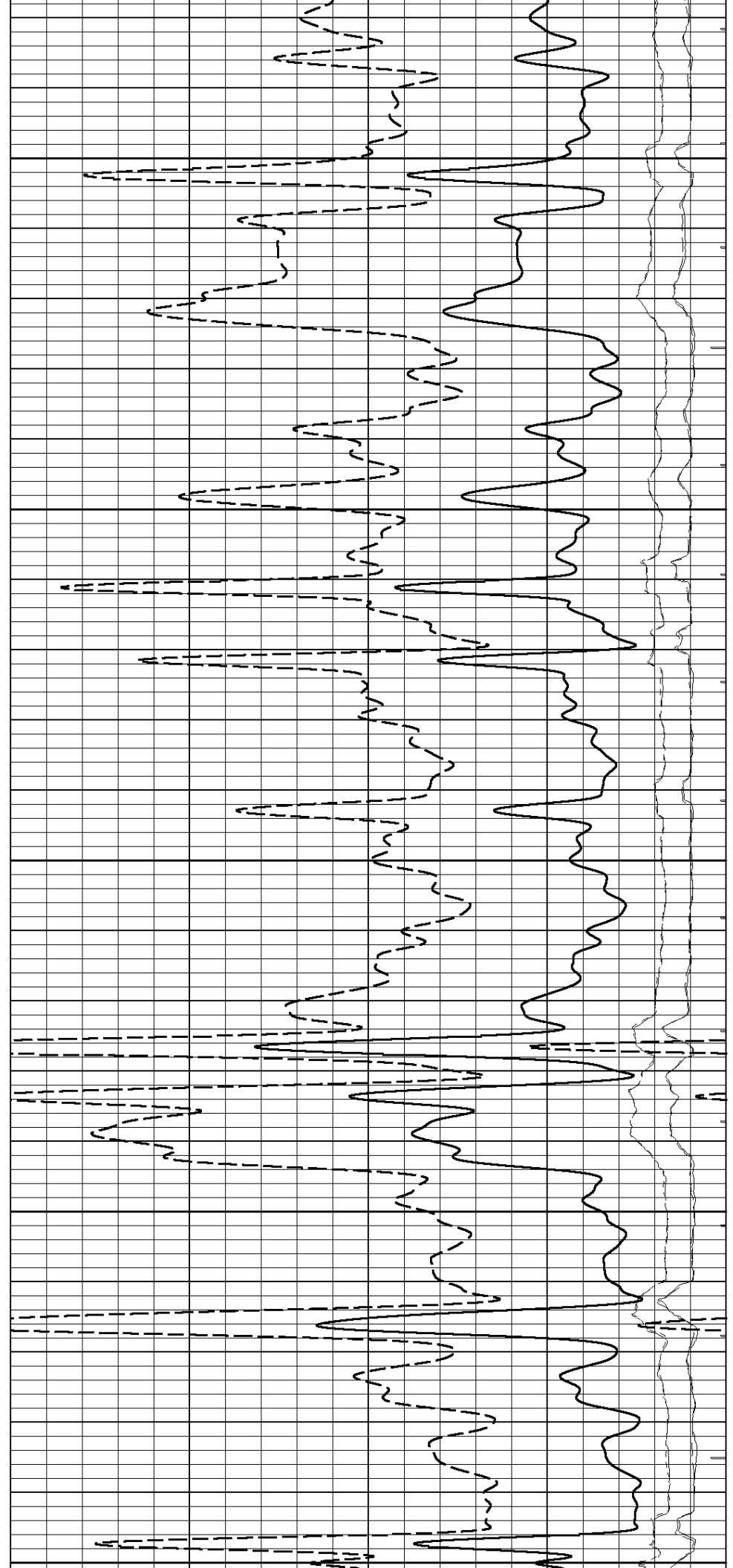
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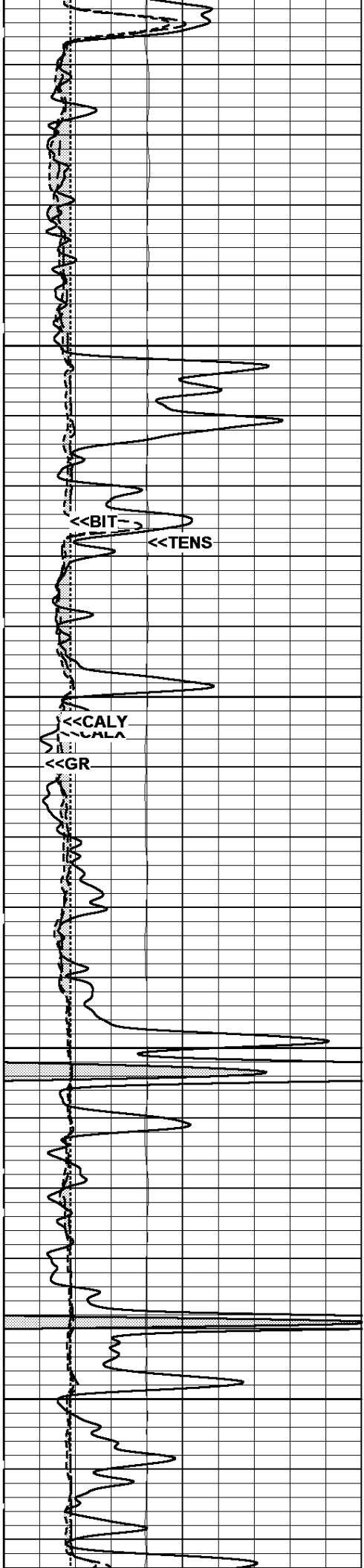
3900

3950

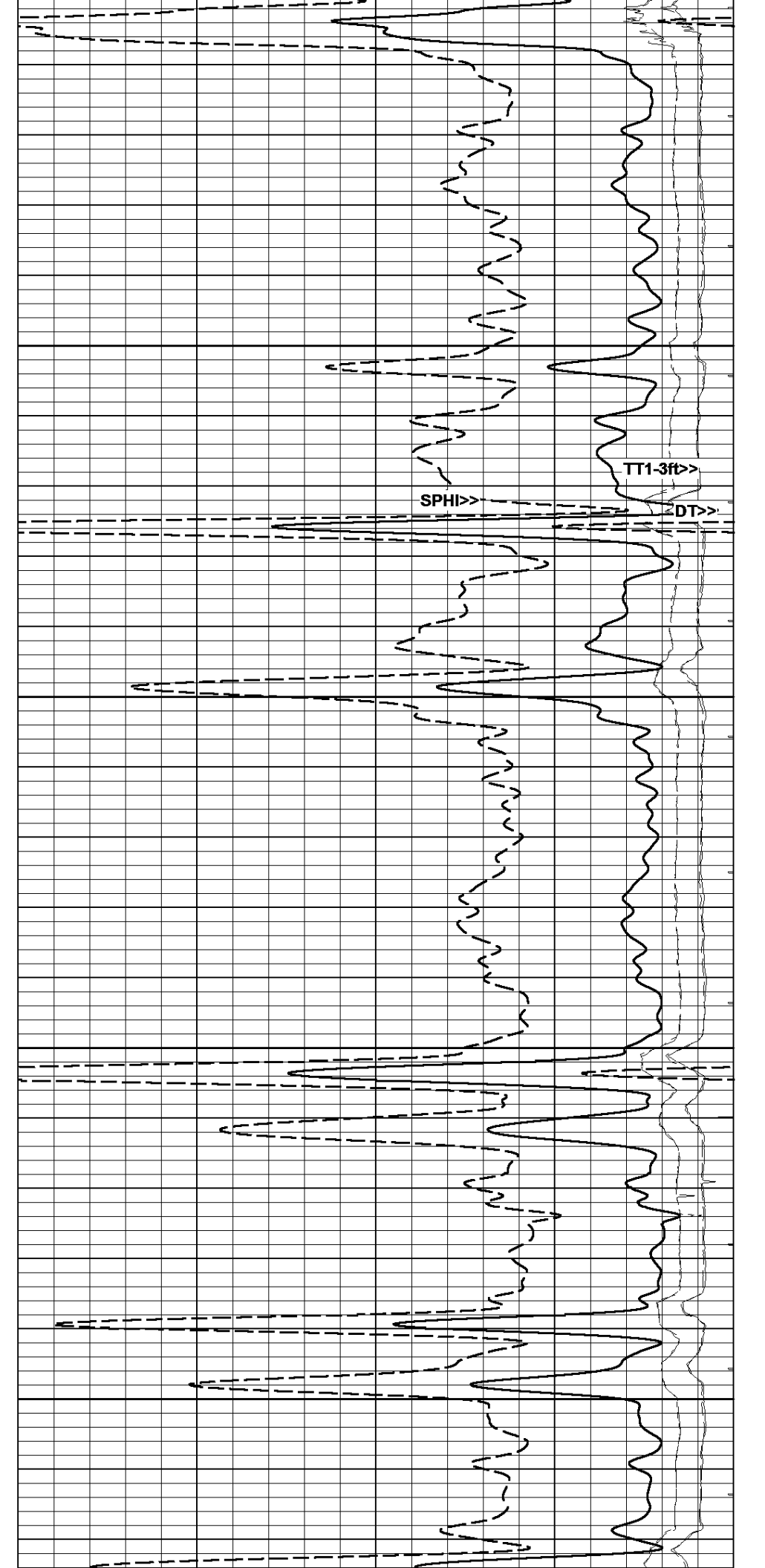
4000

4050

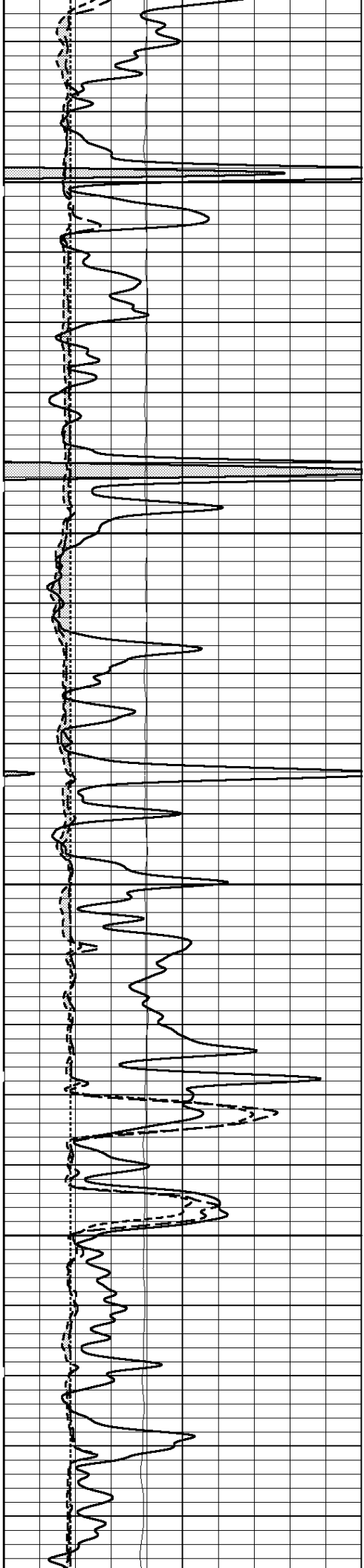




4050
4100
4150
4200
4250



<<DT>>
<<SPhi>>
<<TT1-3ft>>

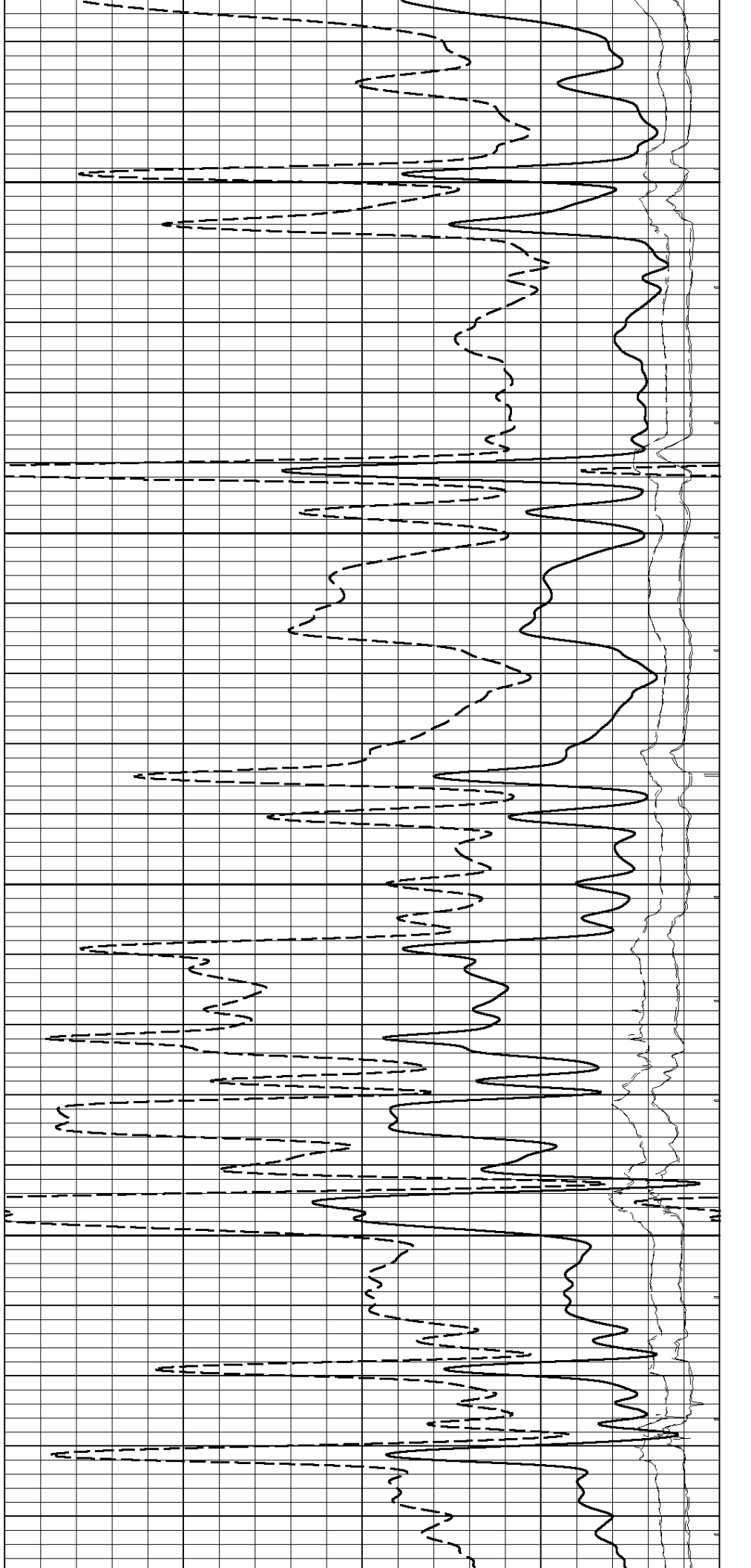


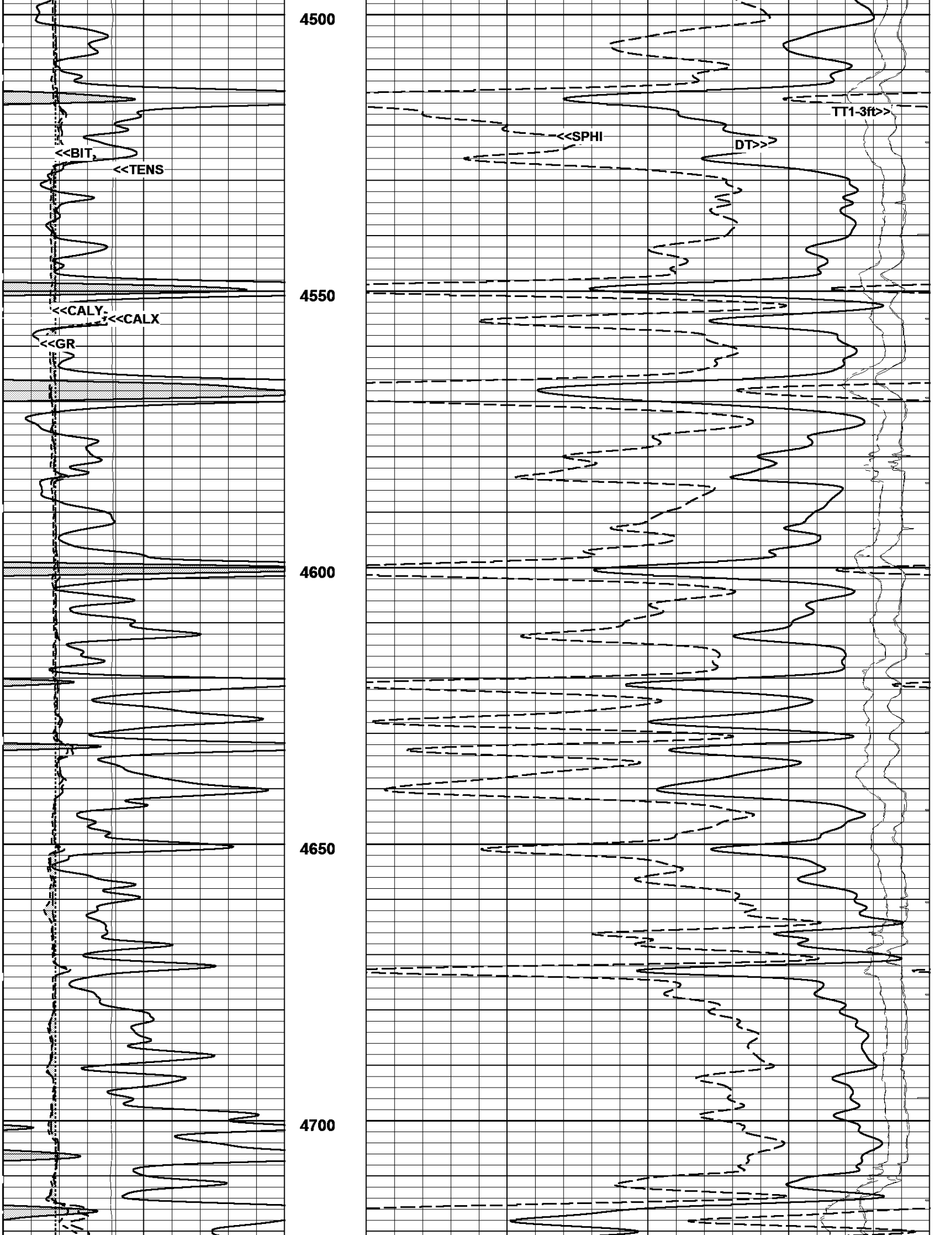
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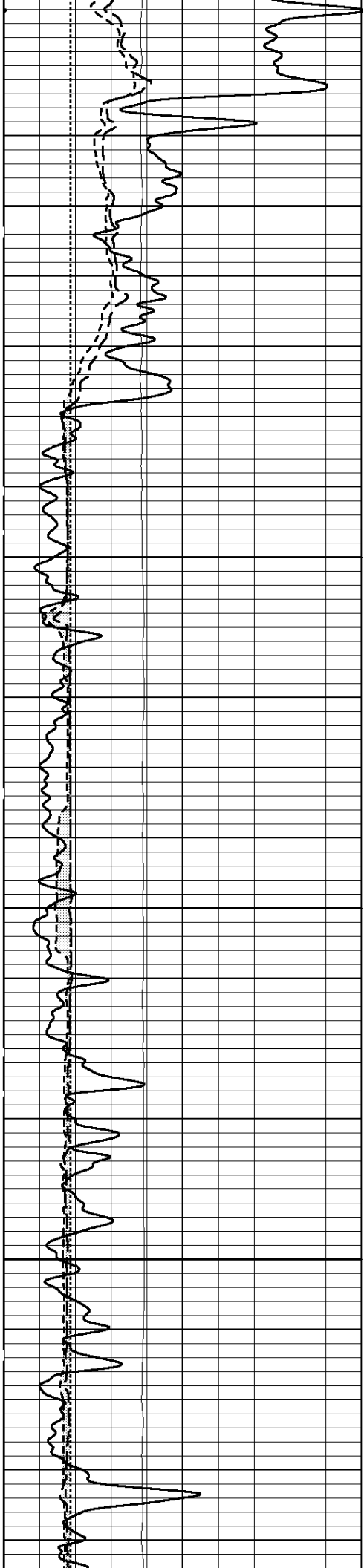
4350

4400

4450





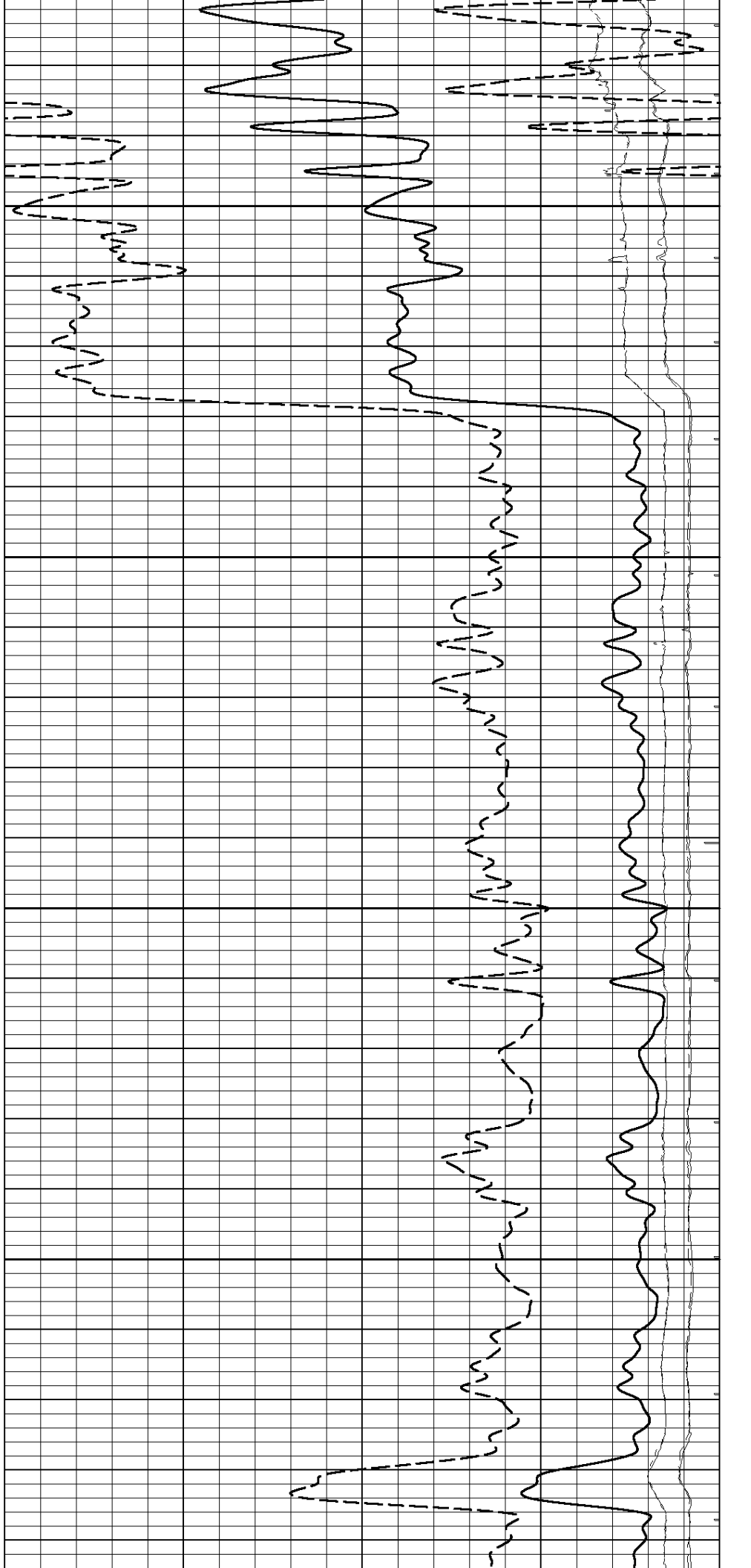


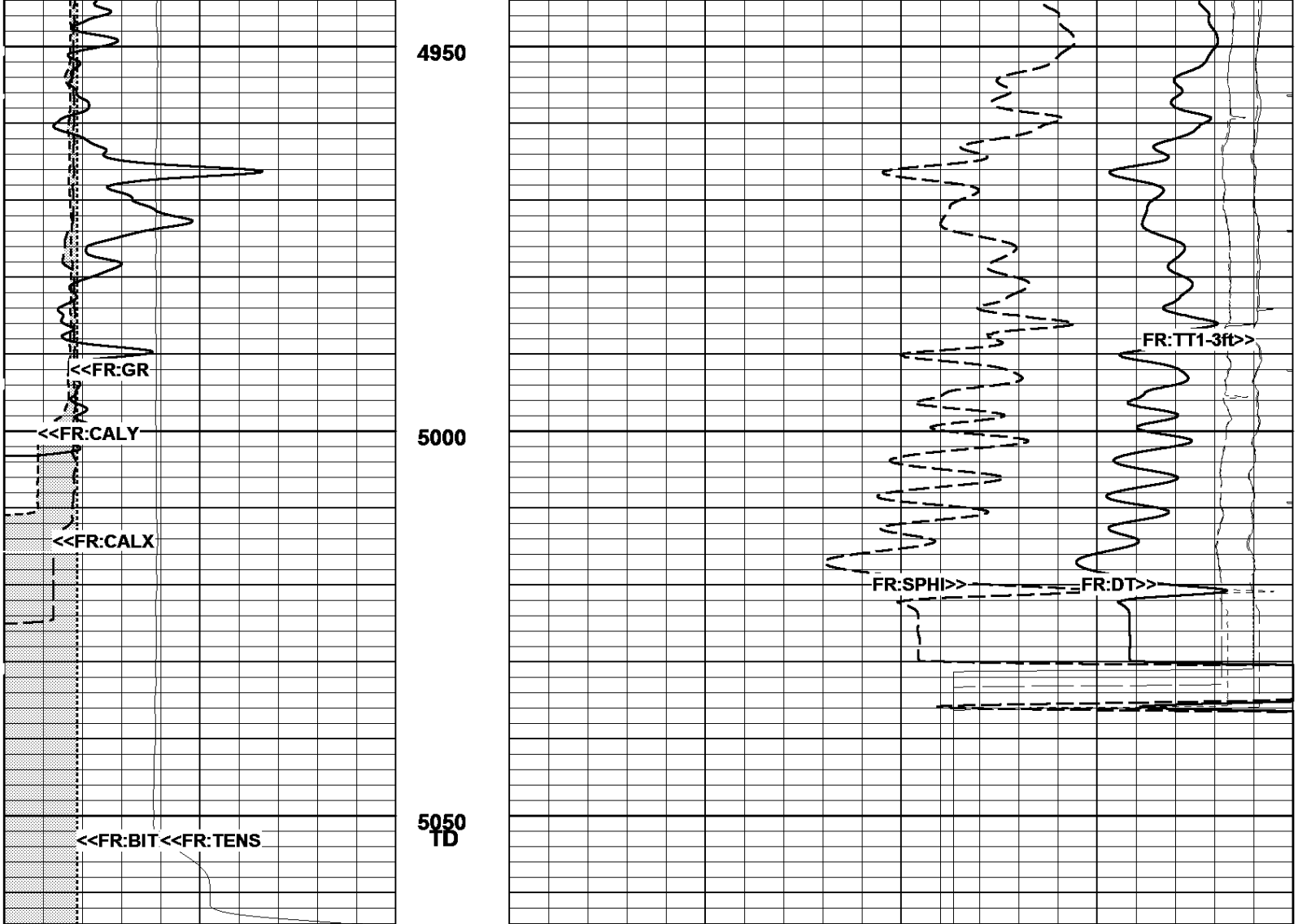
4750

4800

4850

4900





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.

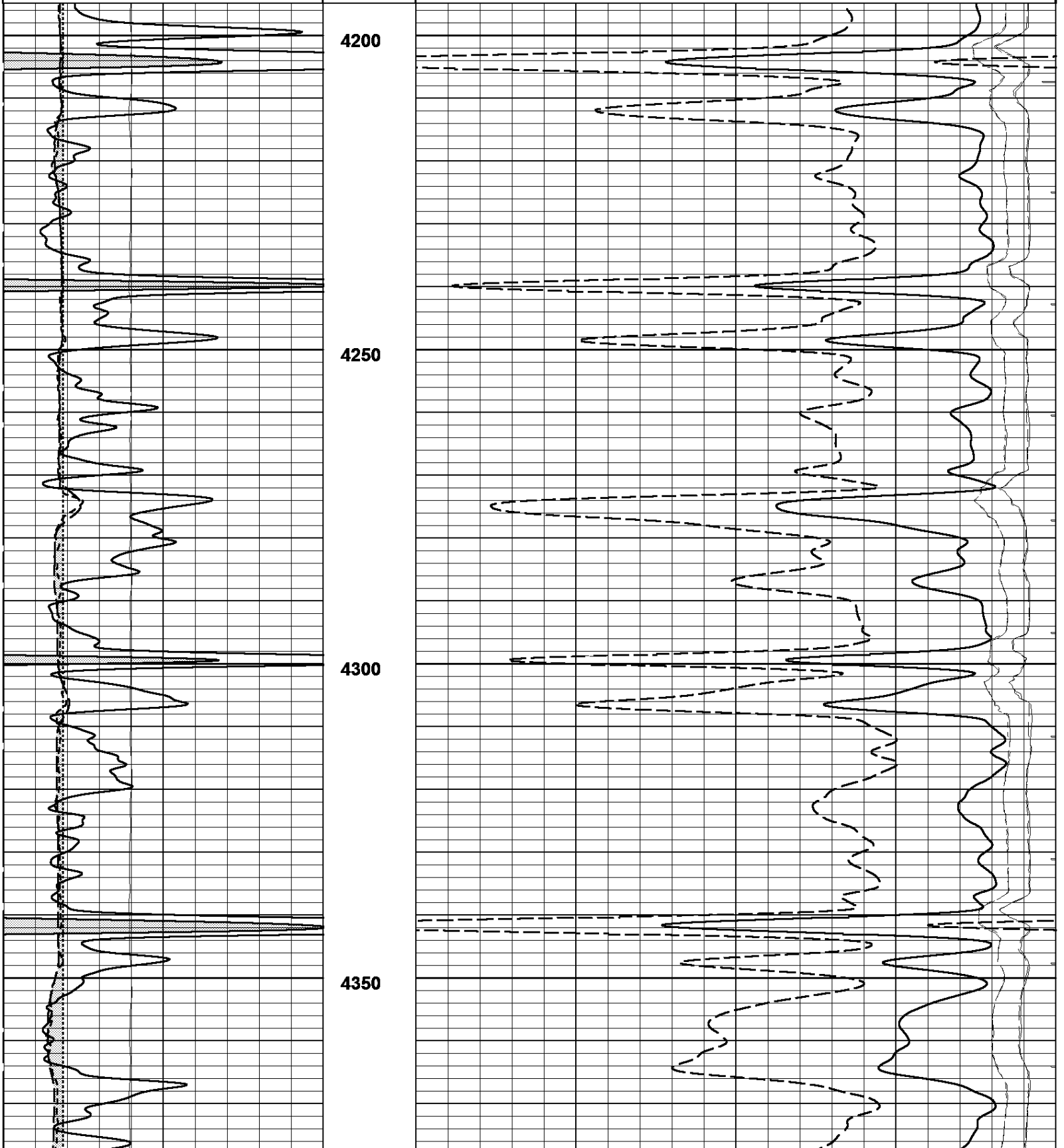
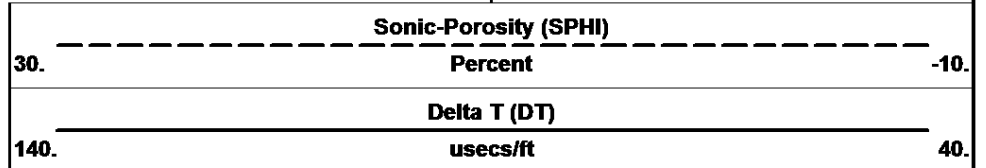
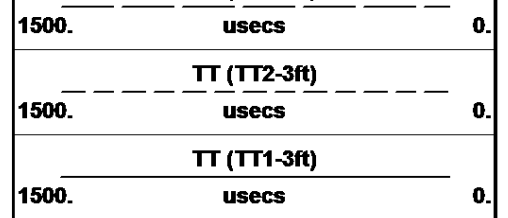
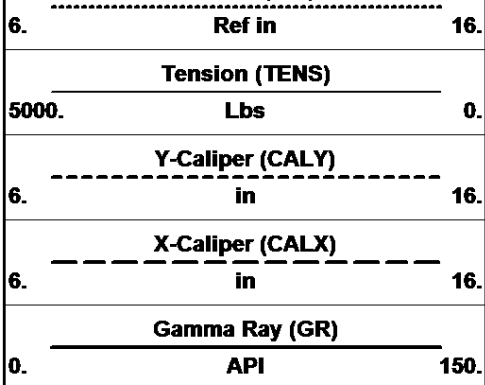
Delta T (DT)		
140.	usecs/ft	40.
Sonic-Porosity (SPHI)		
30.	Percent	-10.

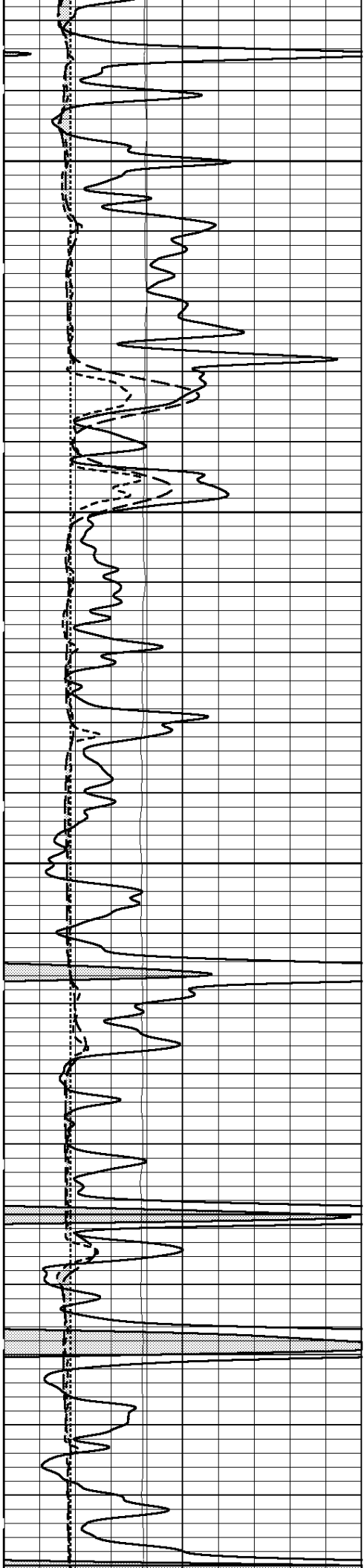
TT (TT1-3ft)		
1500.	usecs	0.
TT (TT2-3ft)		
1500.	usecs	0.
TT (TT3-5ft)		
1500.	usecs	0.
TT (TT4-5ft)		
1500.	usecs	0.

10/30/2014 **MAIN PASS (5"/100ft)** Log UP - (VER 11.19)
 01:59:04 => Start Time Start Depth=> 5064.40 Feet

10/30/2014 **REPEAT PASS (5"/100ft)** Log UP - (VER 11.19)
 02:33:40 => End Time End Depth=> 4195.10 Feet

Bit Size (BIT)		
TT (TT4-5ft)		
1500.	usecs	0.
TT (TT3-5ft)		





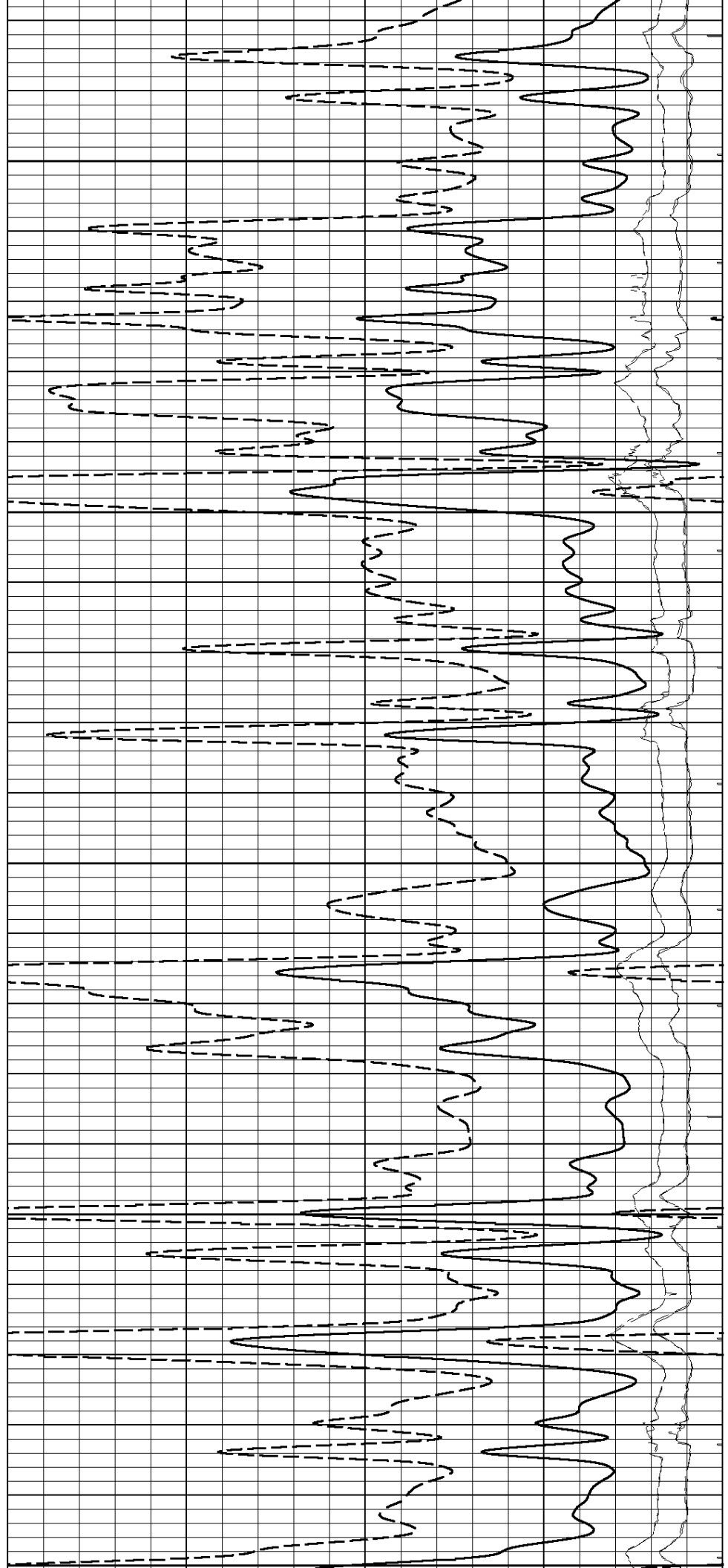
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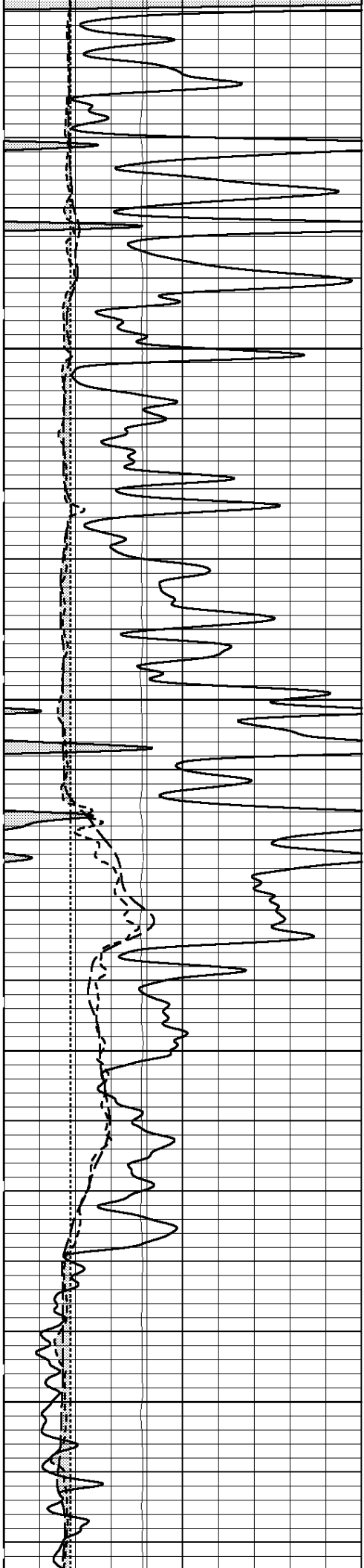
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4500

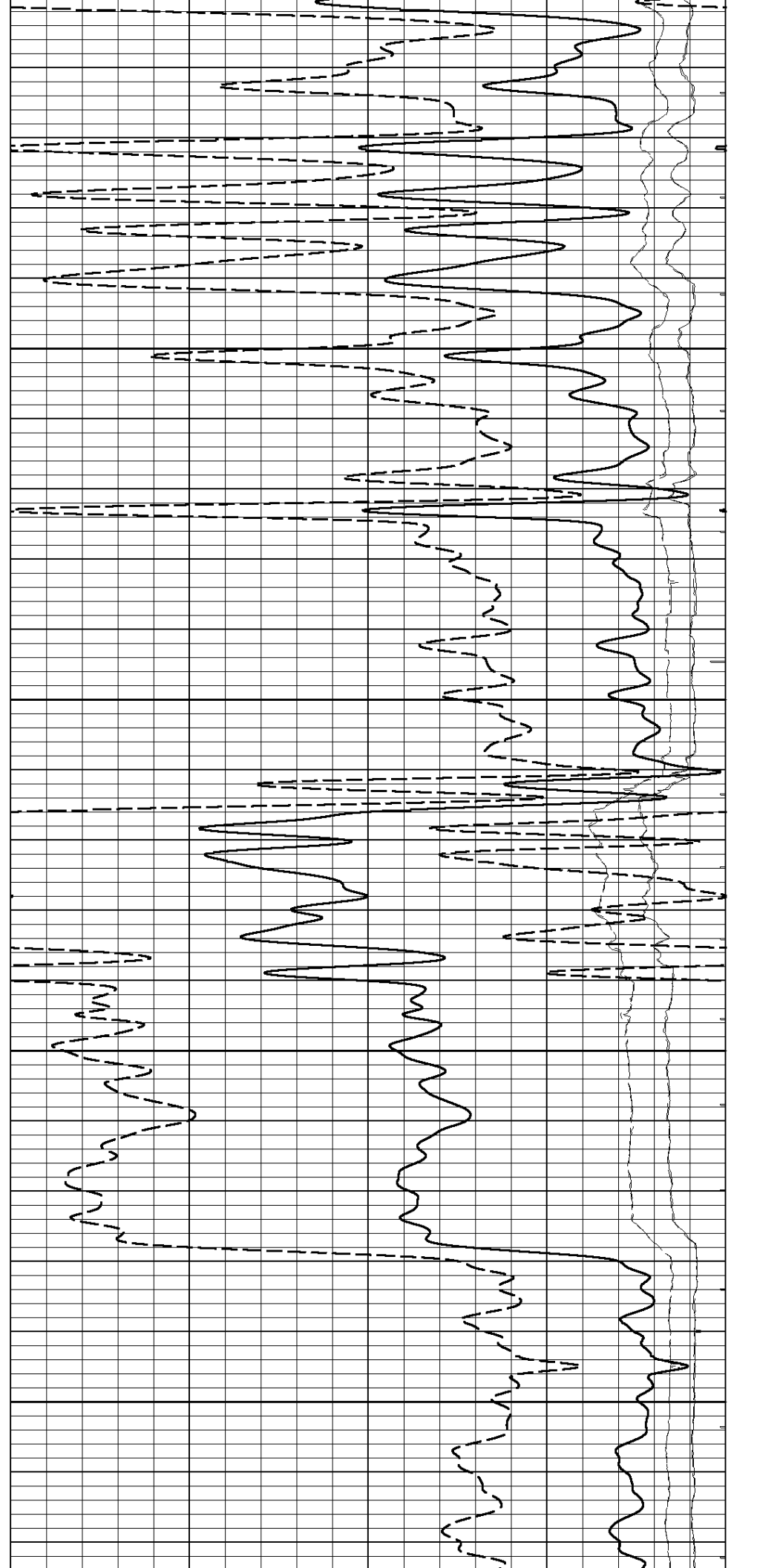
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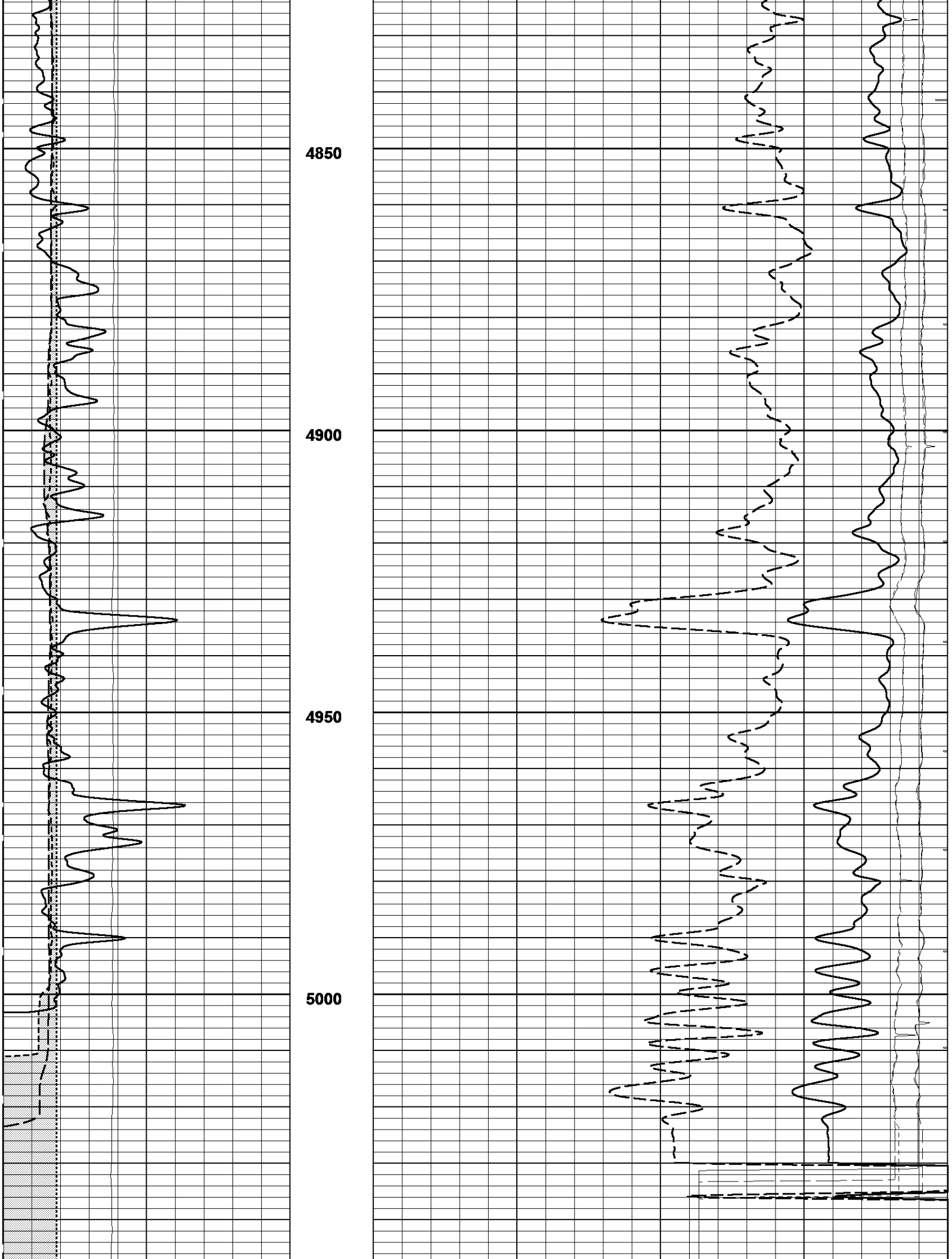
4600



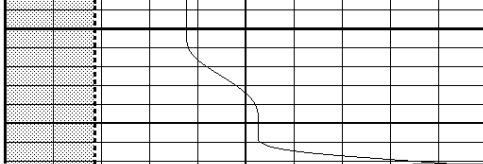


4600
4650
4700
4750
4800





5050



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.

10/30/2014 **REPEAT PASS (5"/100ft)** Log UP - (VER 11.19)
 01:59:04 => Start Time Start Depth=> 5064.40 Feet

GAMMA RAY CALIBRATION

SERIAL NUM
 BLANKET NUM

MASTER CALIBRATIONS

	BackGrnd	CalVal: 159.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	61.816 - raw	466.230 - raw	0.393 - gain 0.000 - off	M/D/Y> 10/14/2014	H:M:S> 11:20:56

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

MASTER CALIBRATIONS

	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	3091.229 - raw	4990.326 - raw	0.002 - gain -0.511 - off	M/D/Y> 10/13/2014	H:M:S> 13:3:41

Y CALIPER CALIBRATIONS

SERIAL NUM

MASTER CALIBRATIONS

	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1201.700 - raw	1932.862 - raw	0.005 - gain -0.574 - off	M/D/Y> 10/14/2014	H:M:S> 11:55:48

Company	GRAND MESA OPERATING CO.
Well	PARKINSON-GOUGH #1-8
Field	WILDCAT
County	SCOTT
State	KANSAS



FULL WAVEFORM
SONIC
GAMMA RAY
X-Y CALIPER