

STEP

energy services

BOREHOLE COMPENSATED SONIC LOG

Company MERIT ENERGY COMPANY, LLC Well DANIELS #1-28 Field WILDCAT County HASKELL State KANSAS Country USA API No. 15-081-22216-0100		File No : HAYS-70398 Company : MERIT ENERGY COMPANY, LLC Well : DANIELS #1-28 Field : WILDCAT County : HASKELL State : KANSAS Country : USA API No : 15-081-22216-0100	
Location : 1879' FEL & 2288' FNL SE/4 NE/4		LSD : Sect : 28 Twp : 27S Rge : 33W	
Permanent Datum:	GL	Elevations:	Services:
Drilling Measured From:	KB	KB 2985.00	Ft GRT MST
Log Measured From:	KB	DF 2984.00	Ft CNT PIT
Above Permanent Datum:	12.00 Ft	GL 2973.00	Ft LDT
Date	02-06-2020		
Run Number	1		
Depth--Driller	5616.0	Ft	
Depth--Logger	5604.0	Ft	
First Reading	5571.0	Ft	
Last Reading	1758.0	Ft	
Casing--Driller	1726.0	Ft	
Casing--Logger	1726.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	WBM		
Density	9.0		
Fluid Loss	5.6		
PH/Viscosity	11.5	58.0	
Sample Source	MEASURED		
RM@Measured Temp.	1.900	@ 50 F	
RMF@Measured Temp	1.620	@ 50 F	
RMG@Measured Temp.	2.190	@ 50 F	
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	0.830	@ 124 F	
Time Circulation Stopped	02-06-2020 11:27		
Max Recorded Temp.	124	F	
Equipment/Base	TRK-137	HAYS	
Recorded By	B.BAILEY		
Witnessed By	MARTIN LANGE, AUSTIN GARNER		

The customer is hereby warned that by providing the log data herein, STEP Energy Services does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. STEP Energy Services does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by STEP Energy Services personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by STEP Energy Services for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

Bitsize Intervals		Casing Strings			
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)	Top (Ft)
7.875	5616.00	8.625	17.00	1726.00	0.00

Run Number	1	
Date	02-06-2020	
Date/Time On Bottom	02-06-2020 16:00	
Depth to Fluid	0.0 Ft	
Salinity	625.000	
RMF@BHT	0.710 @ 124 F	
RMC@BHT	0.960 @ 124 F	

Run Number 1

Comments

GRT: GRP
CNT: PHIN, CLCNIN,
LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN
CST: PORL, CDTF, TTIPF, TT2PF, TT3PF, TT4PF, ITT
MLT: NOR_RF, INV_RF, MSCLPIN
PIT: ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS:
D. RAGSDALE
J. VAUGHN
D.LEGLEITER

Scale: 1:240 **Format:** CST-240

Acquired: Not Available

Processed: Not Available

NEUTRON (Y) CALIPER INCHES (IN)	
16 6	26 16
DENSITY (X) CALIPER INCHES (IN)	
16 6	26 16
BIT SIZE INCHES (IN)	
6	16
TENSION LBS	
10000	0
GAMMA RAY API UNITS	
150 0	300 150

COMPENSATED SONIC TRAVEL TIME uSEC/FT	
240 140	140 40
SONIC POROSITY PERCENT	
30	-10

1:240 MAIN SECTION

[illegible]

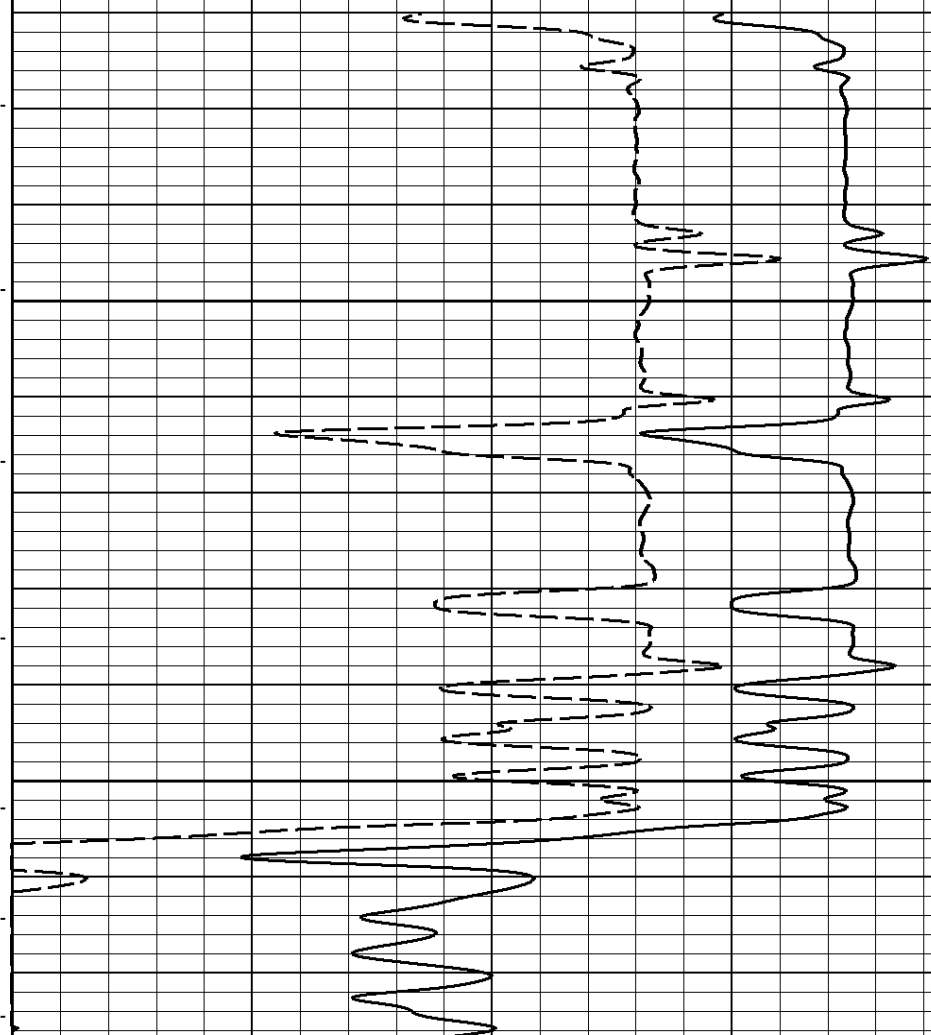
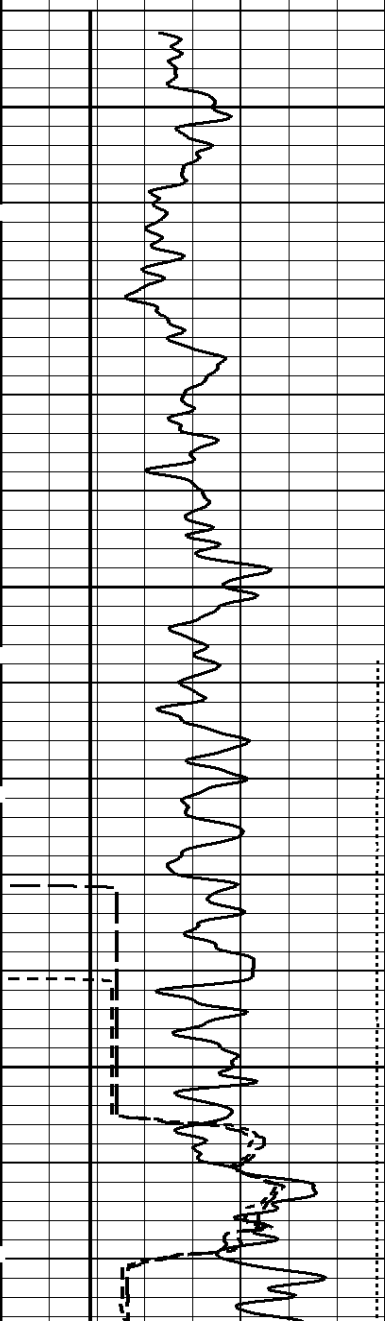
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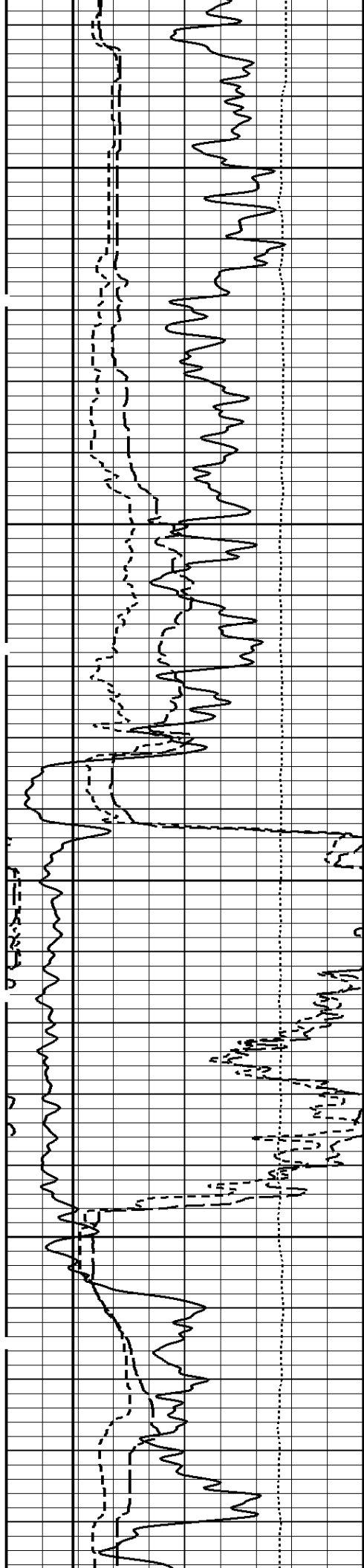
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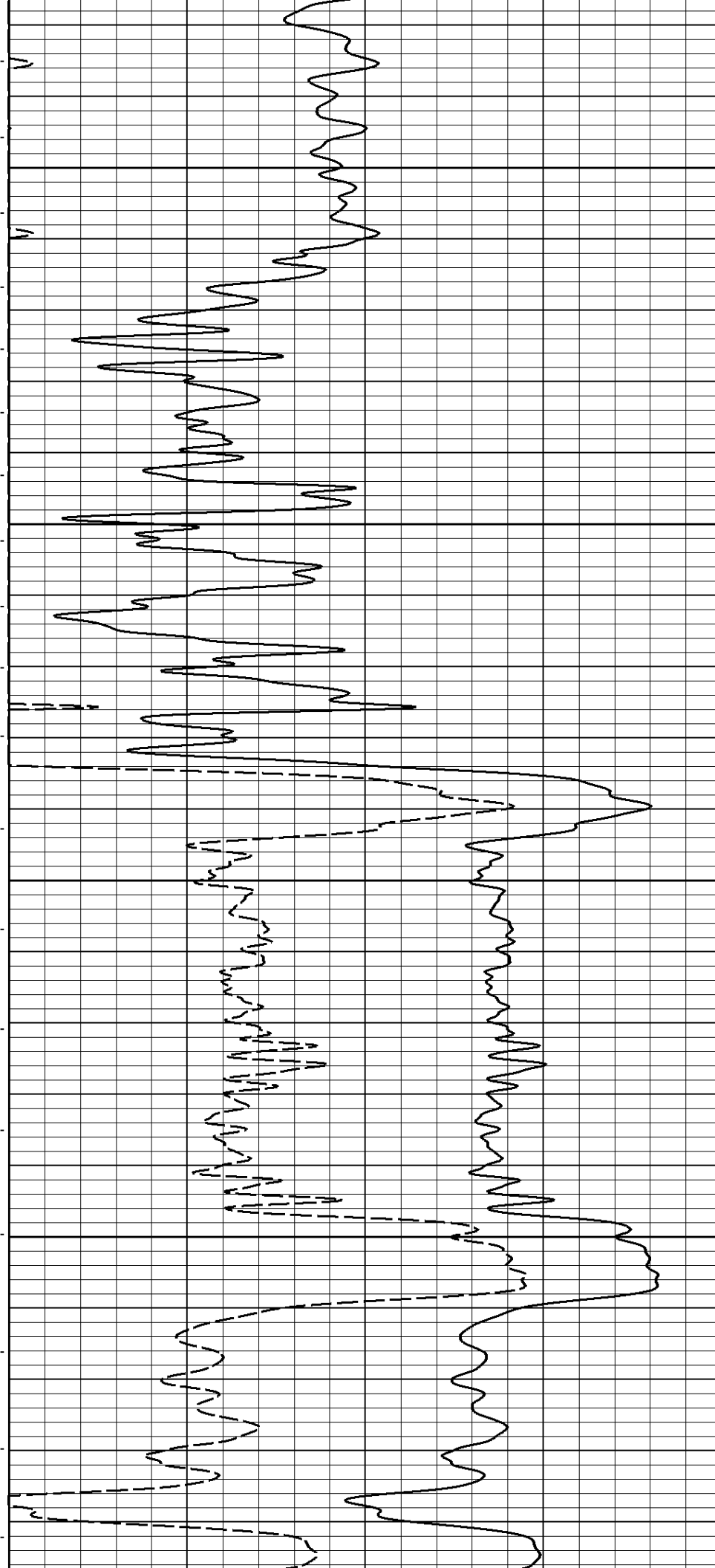
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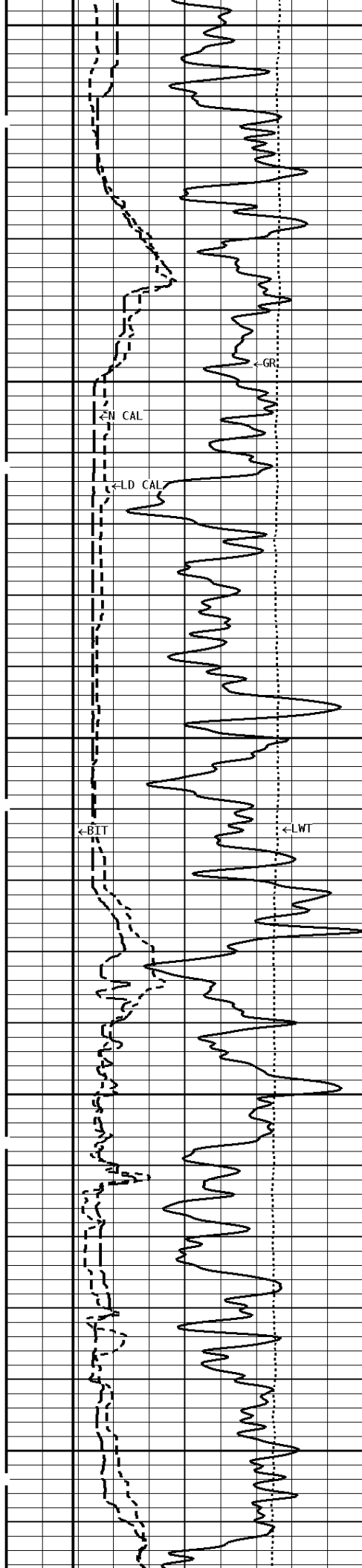




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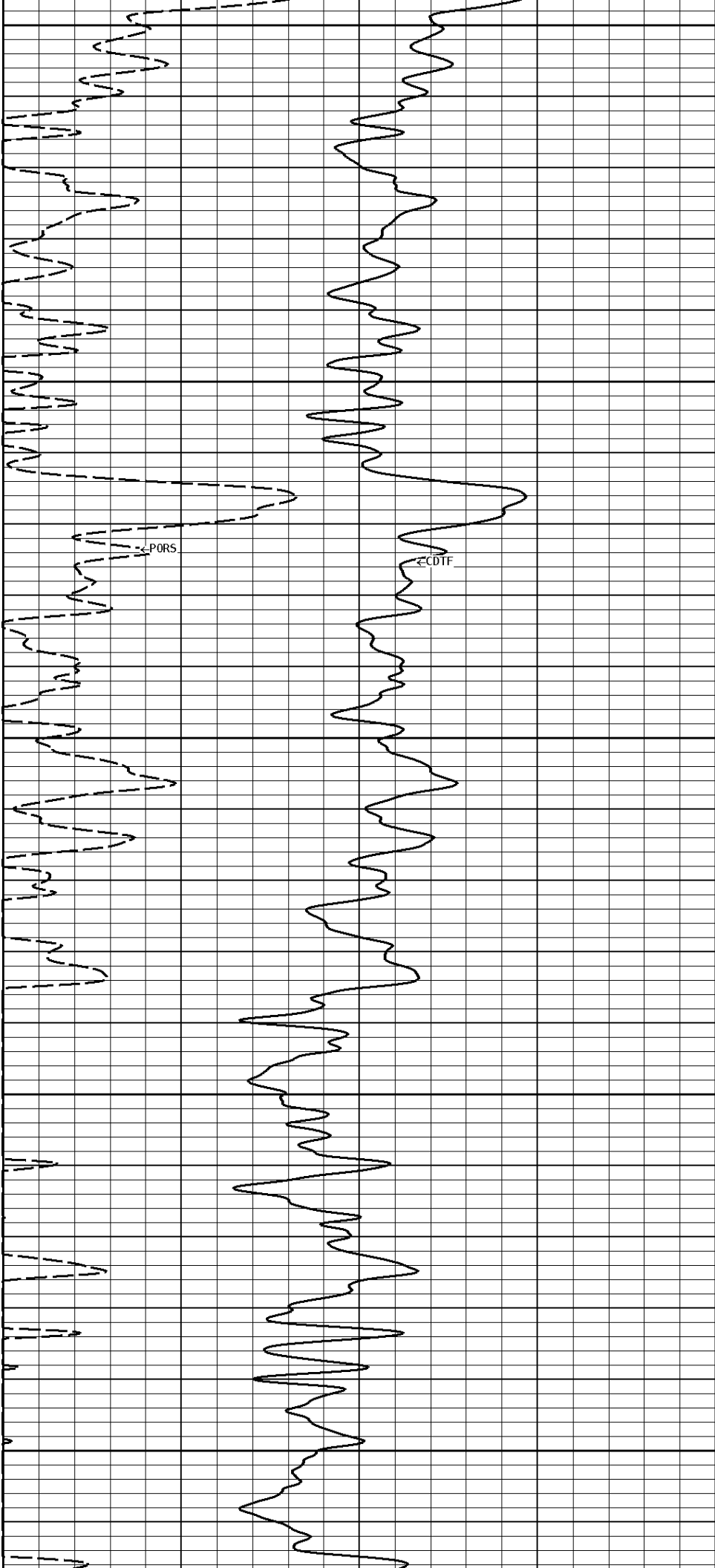


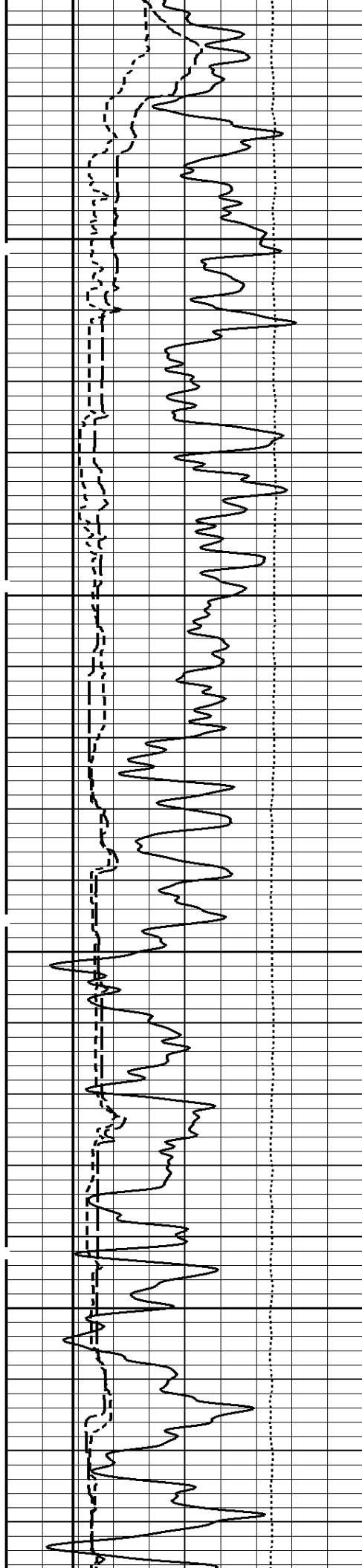


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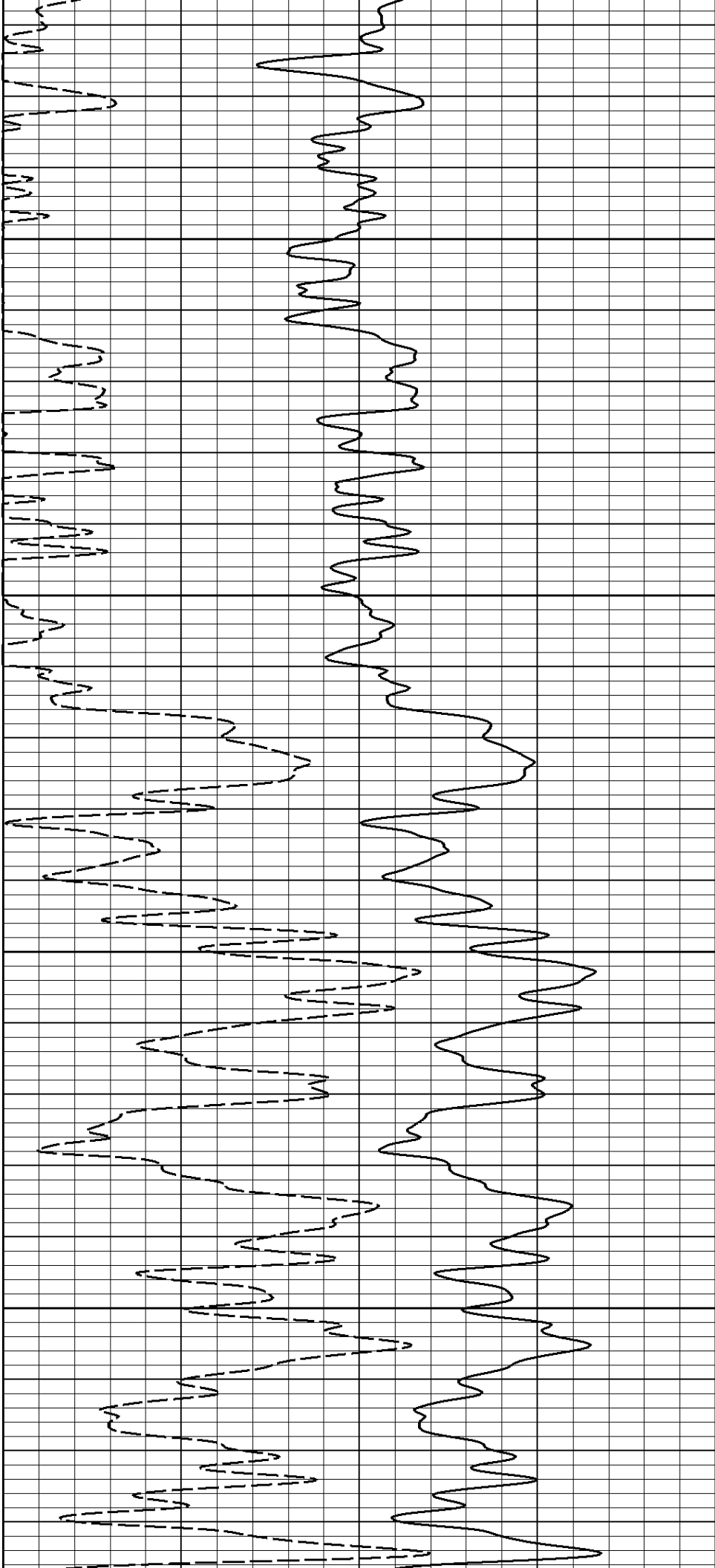
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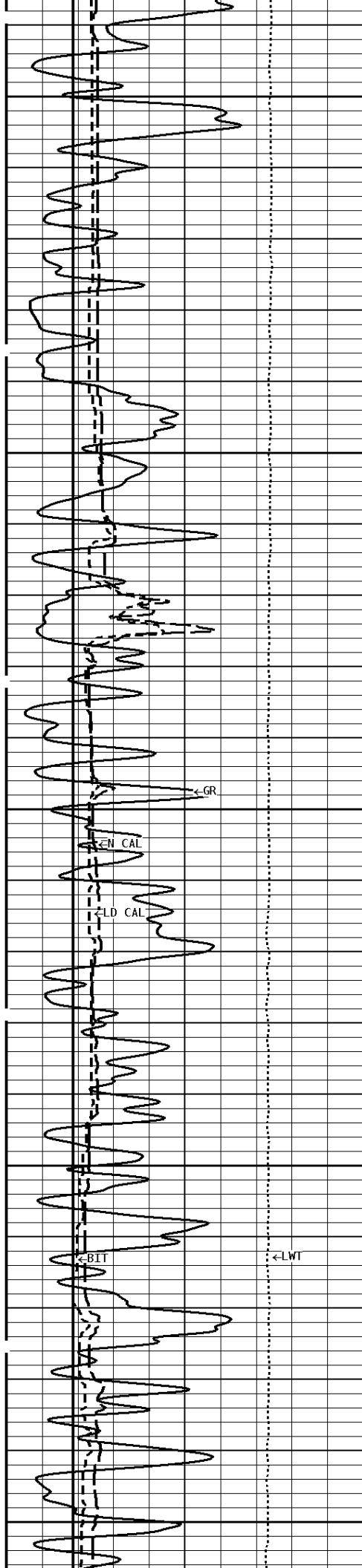




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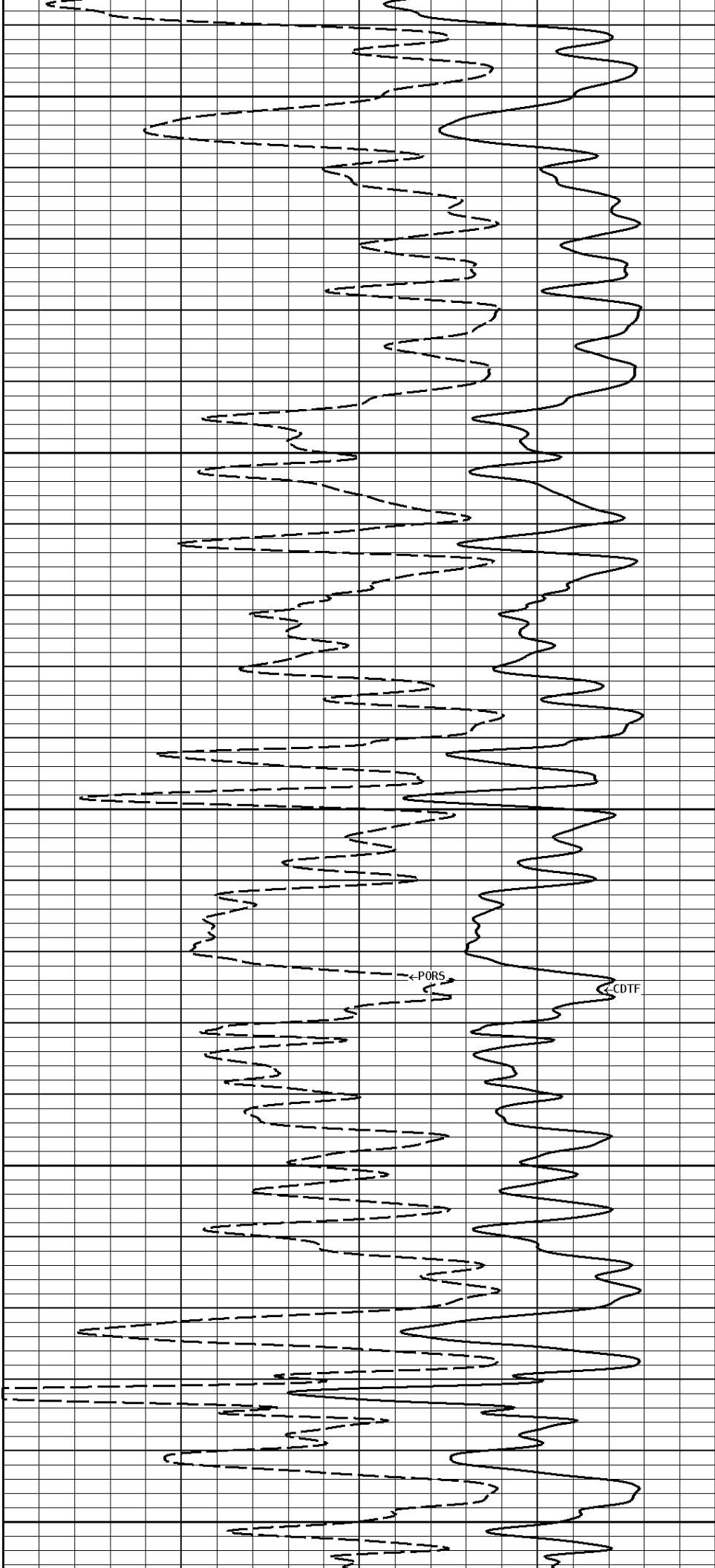
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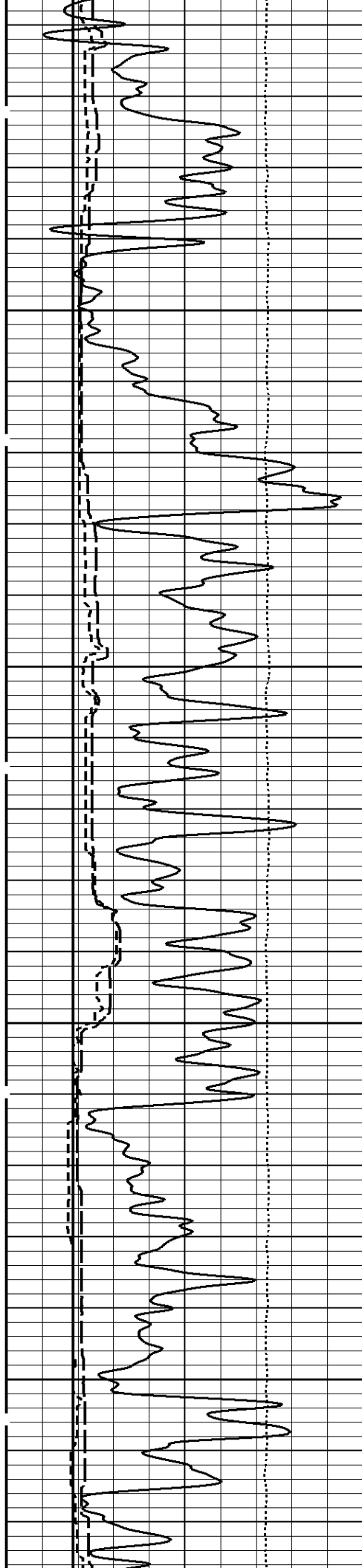




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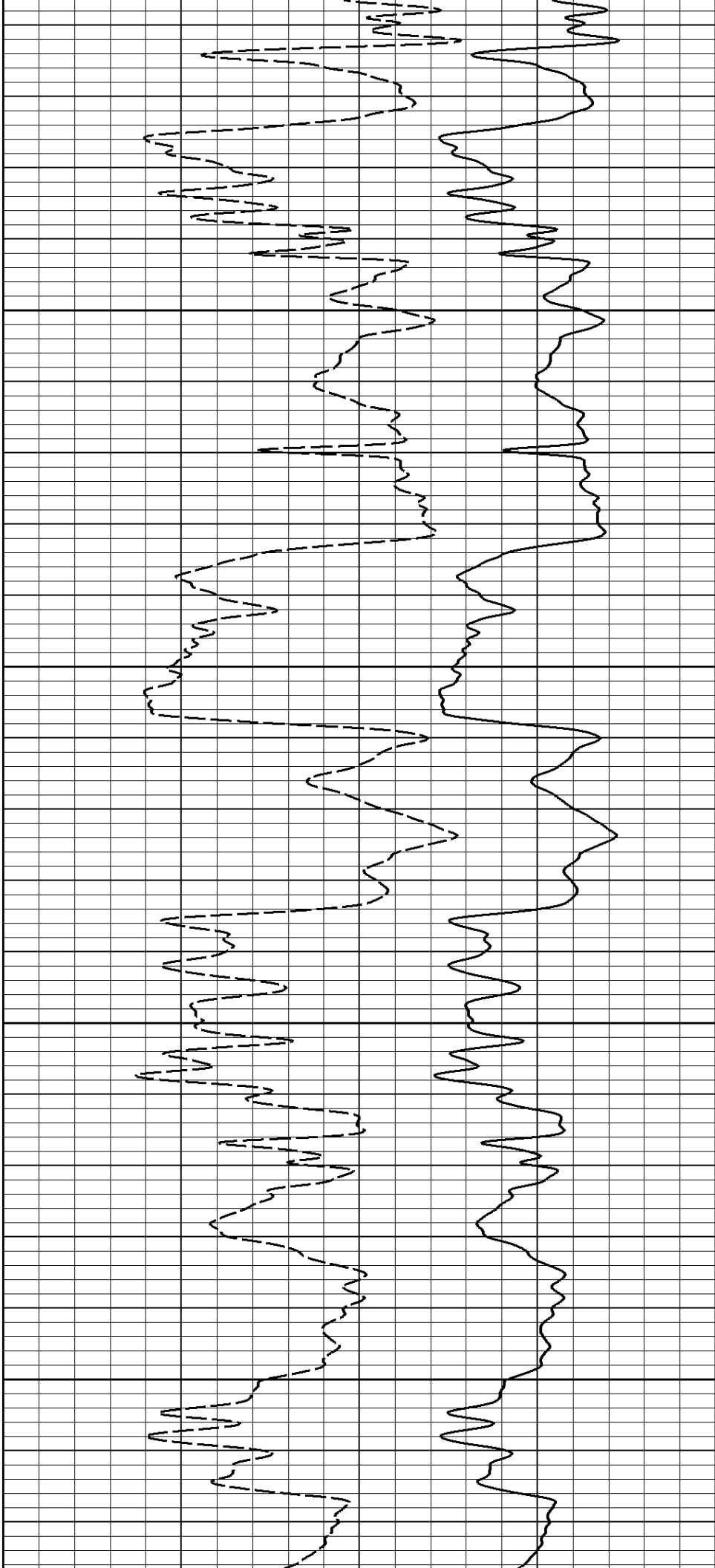
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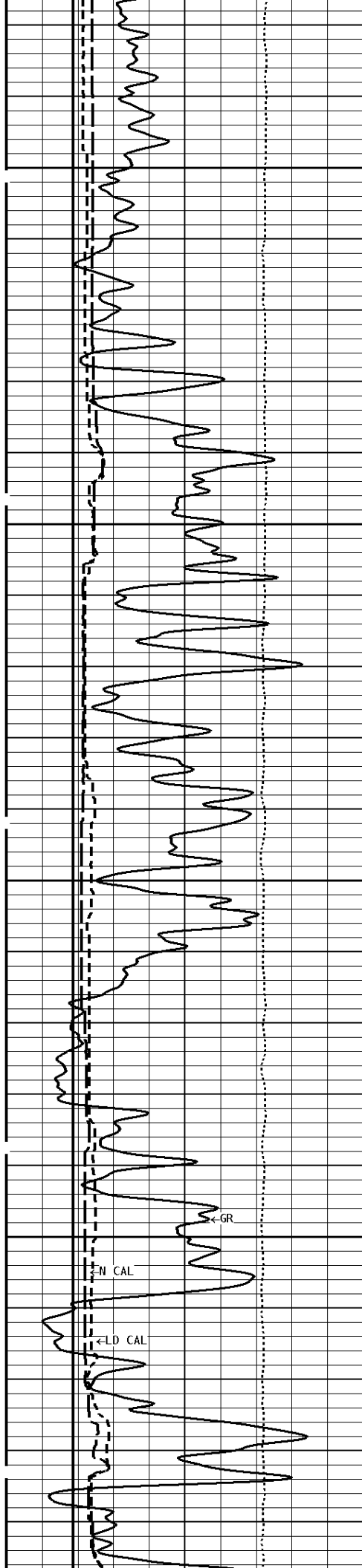




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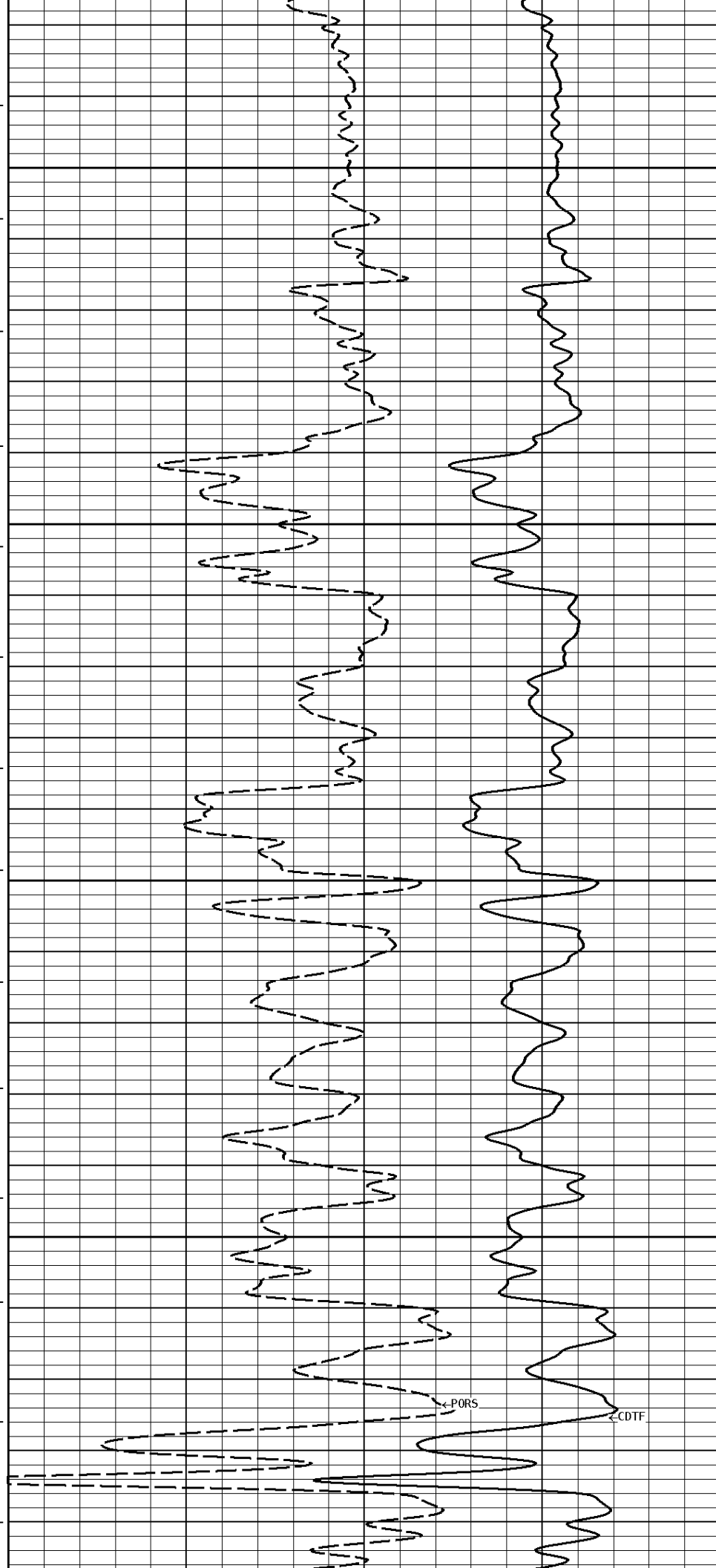
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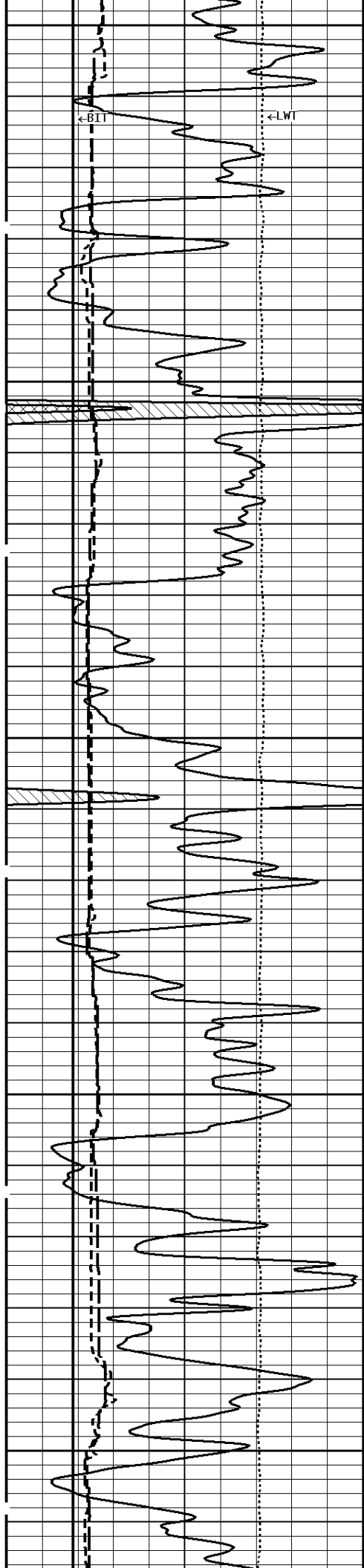




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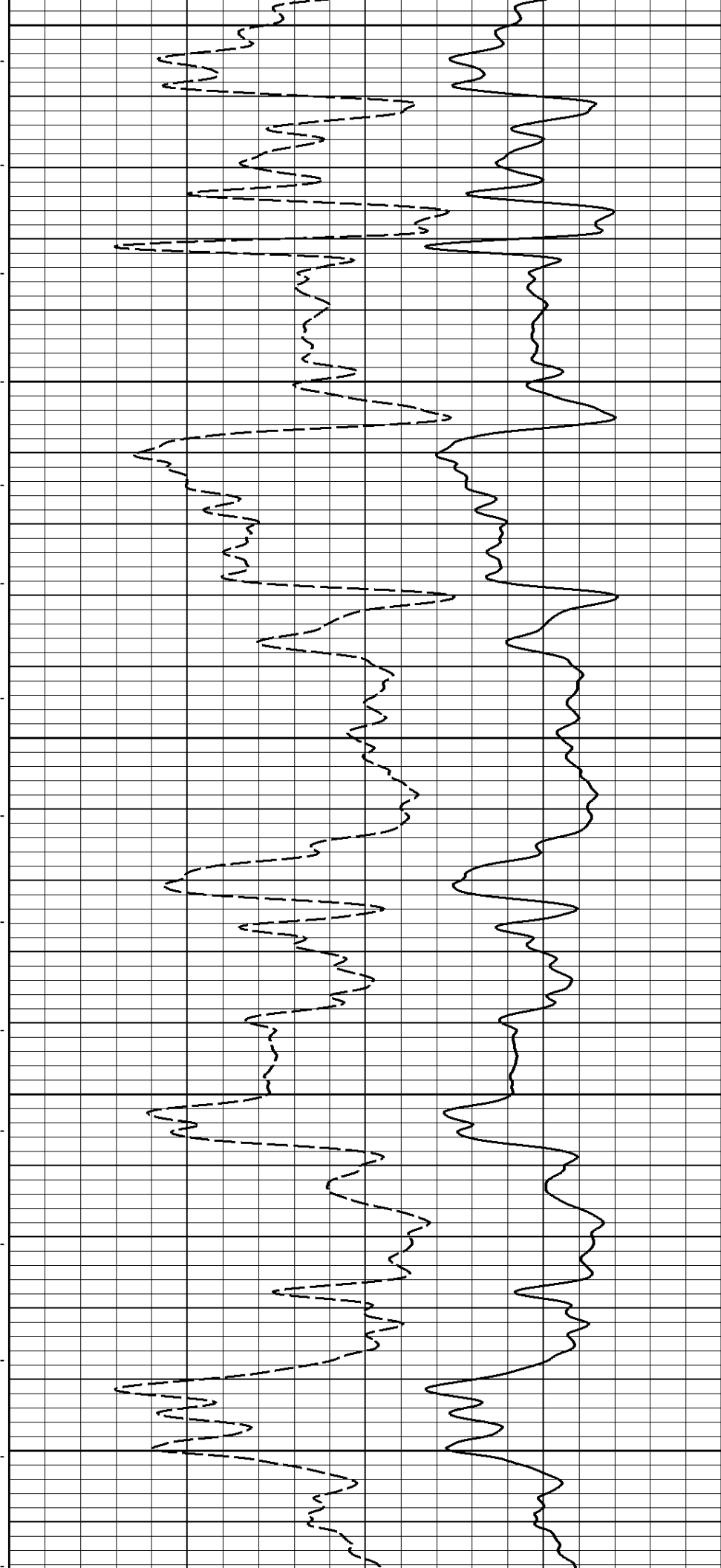


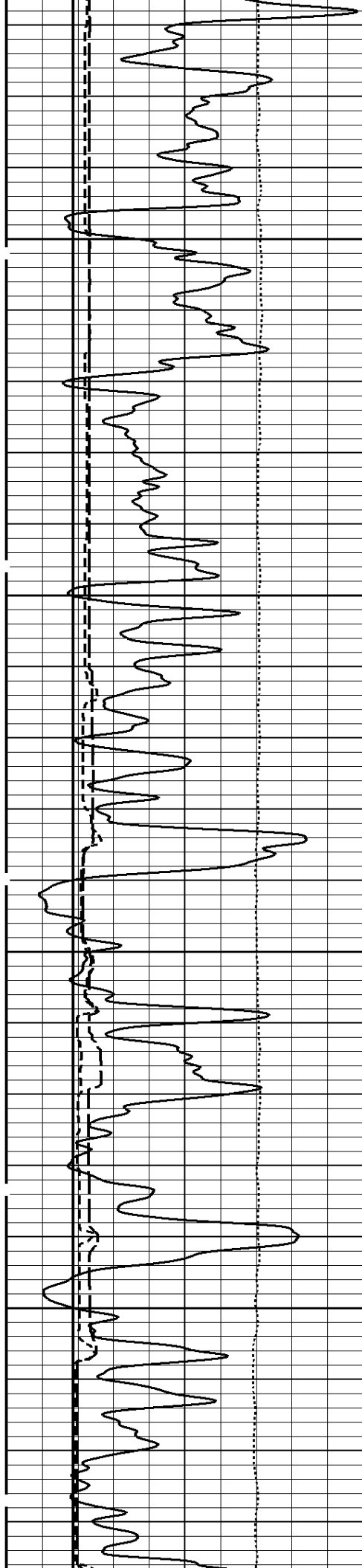


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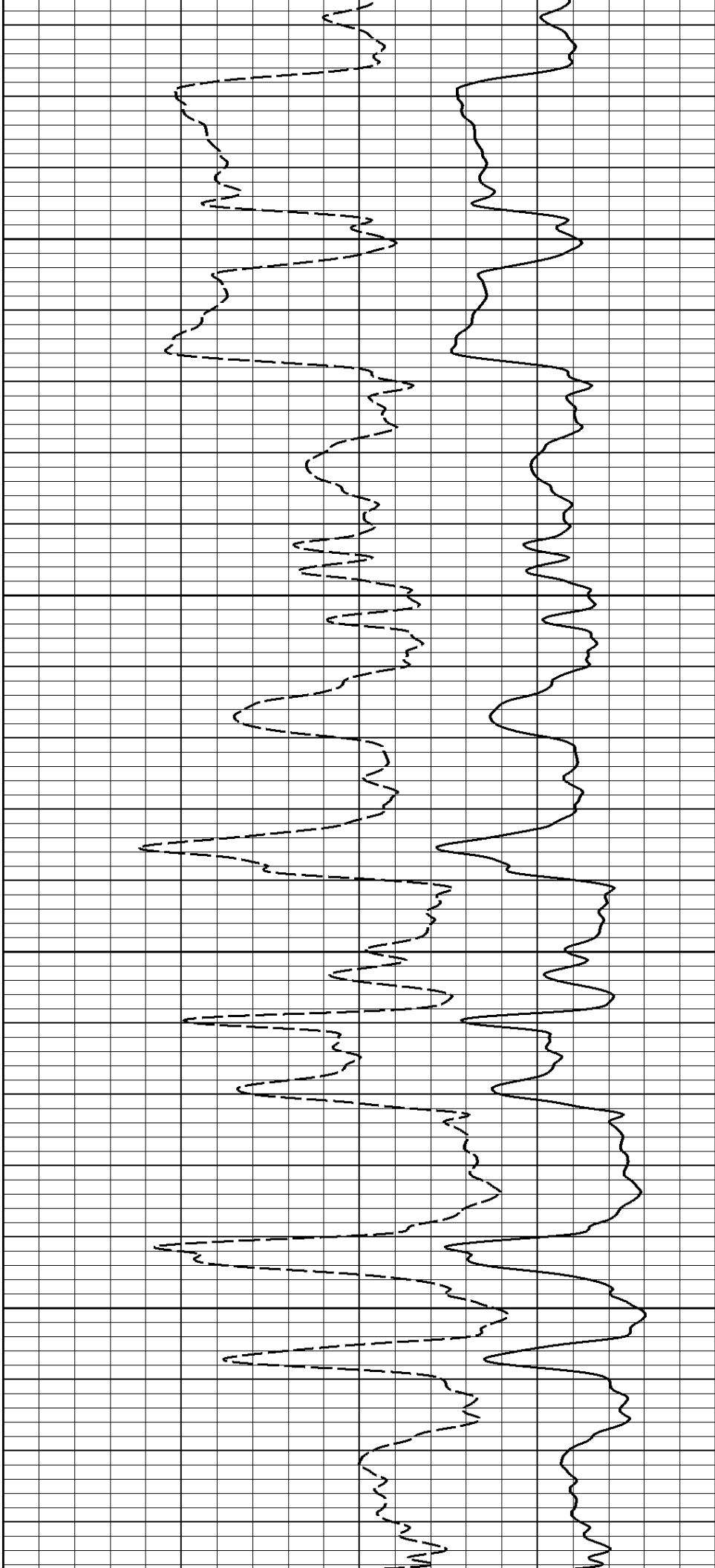
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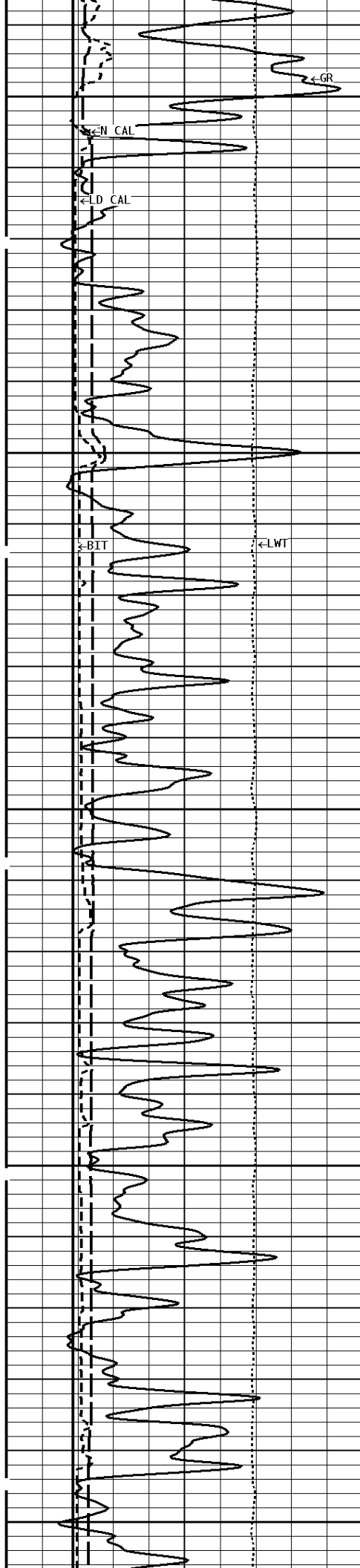




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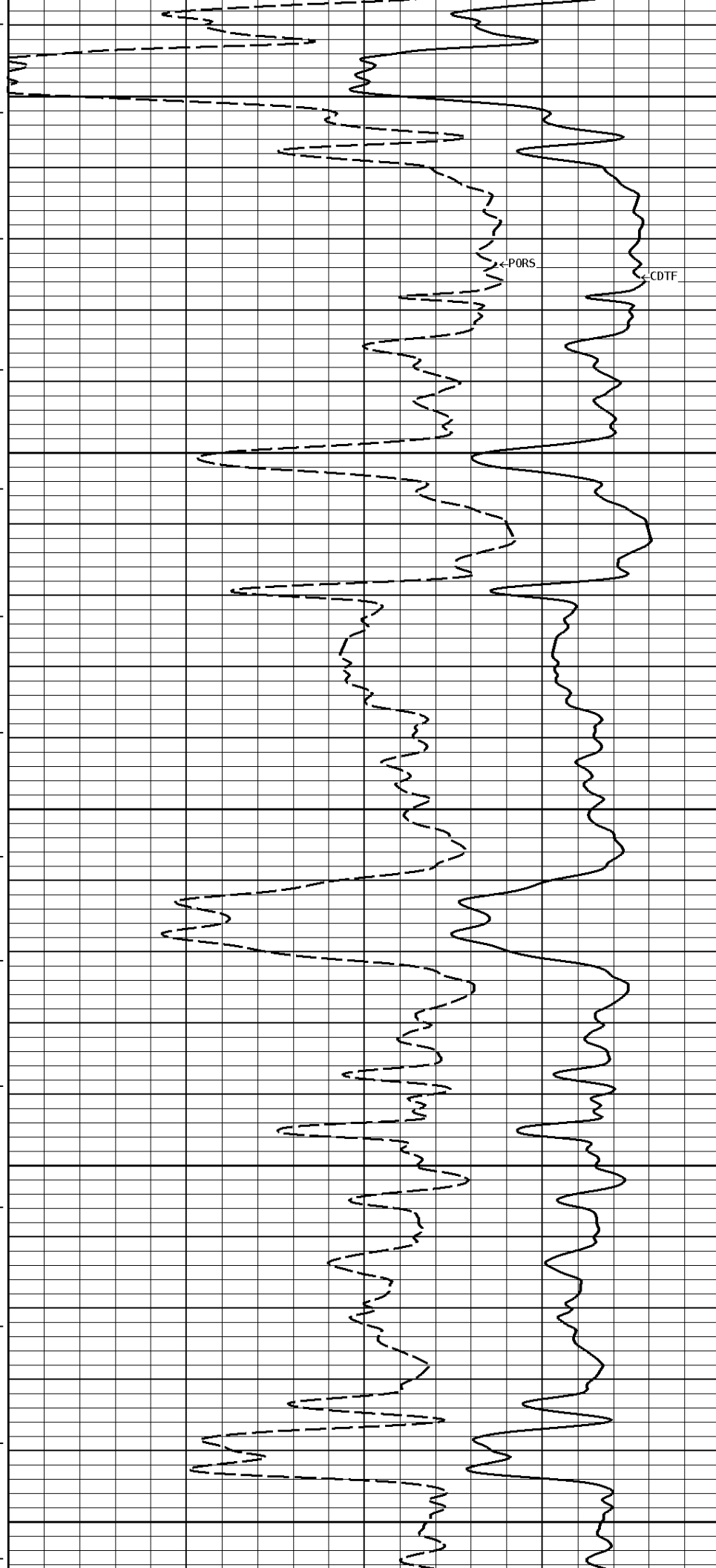
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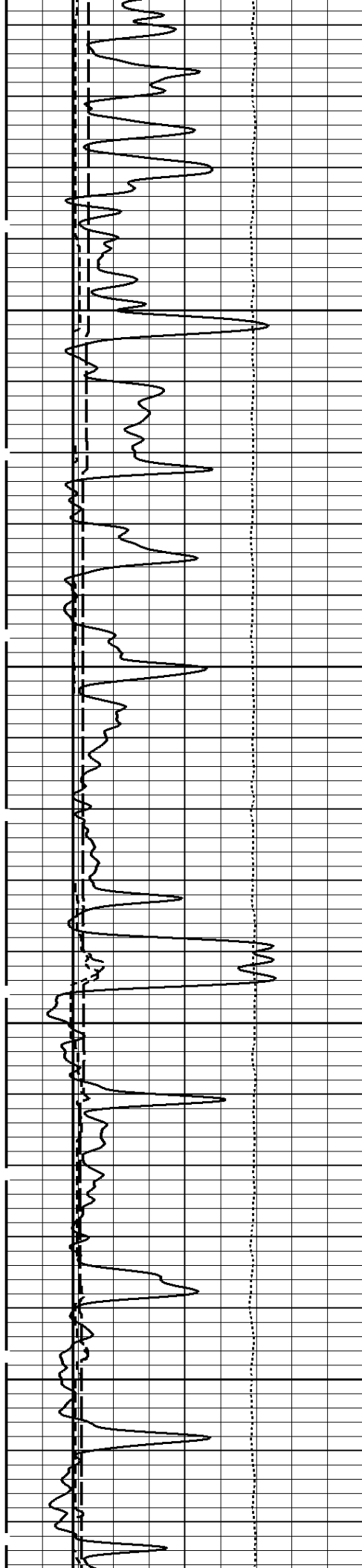




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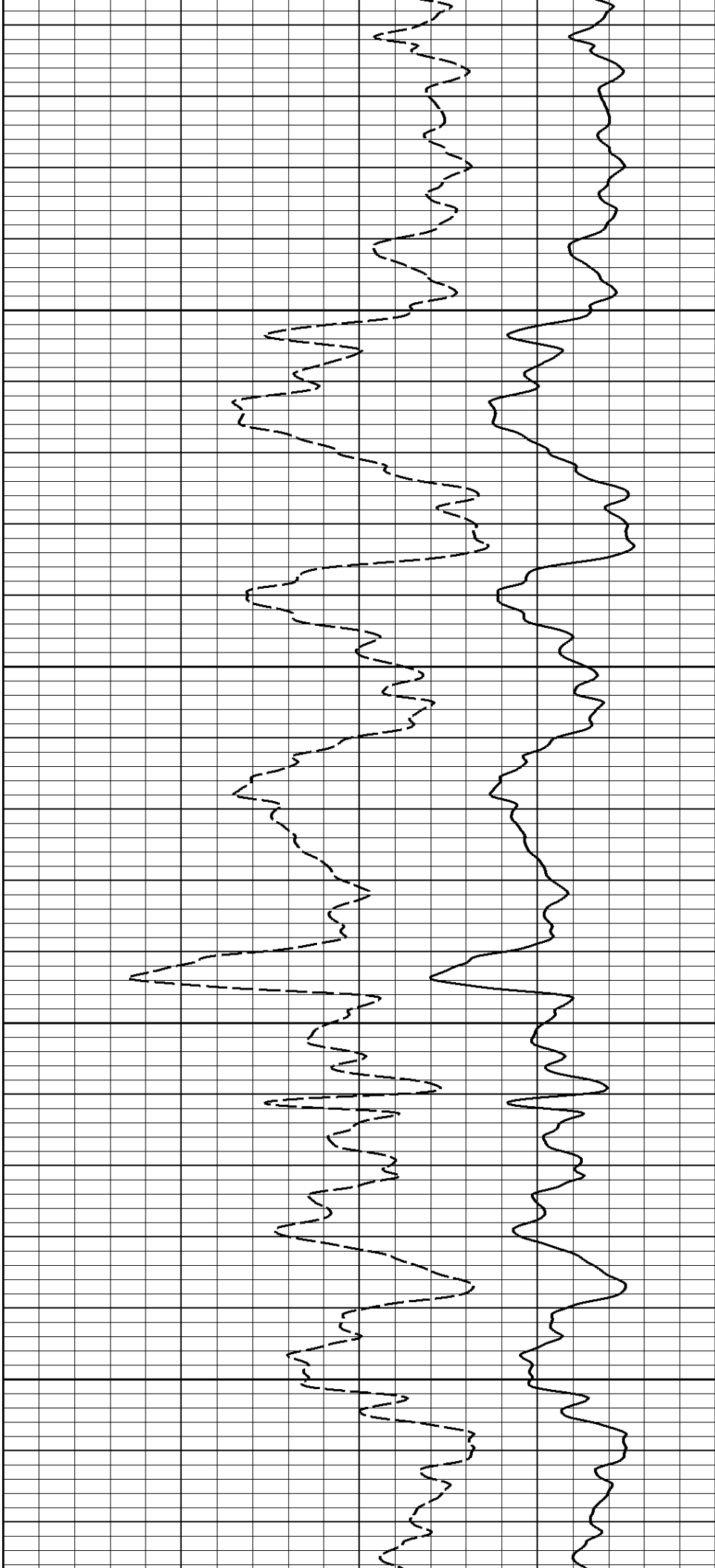
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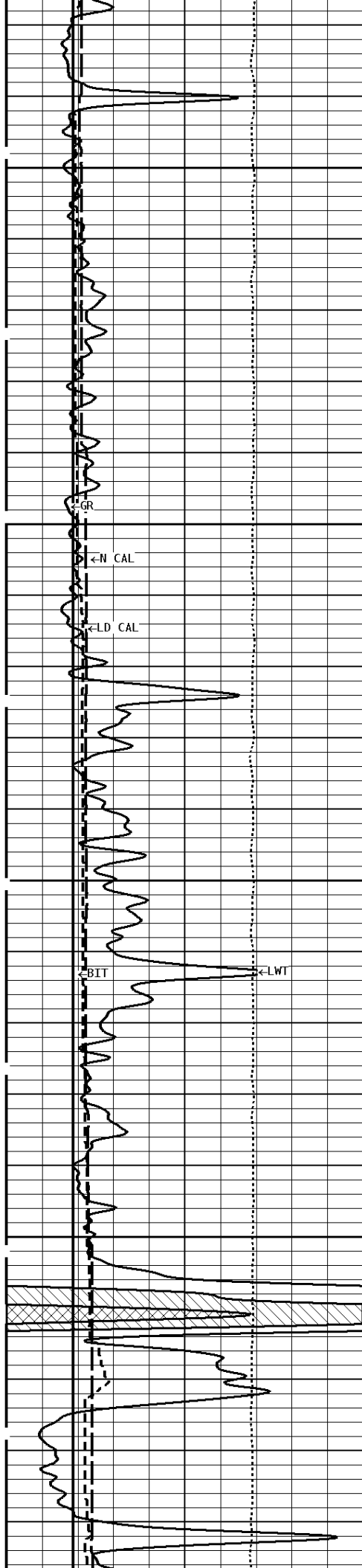




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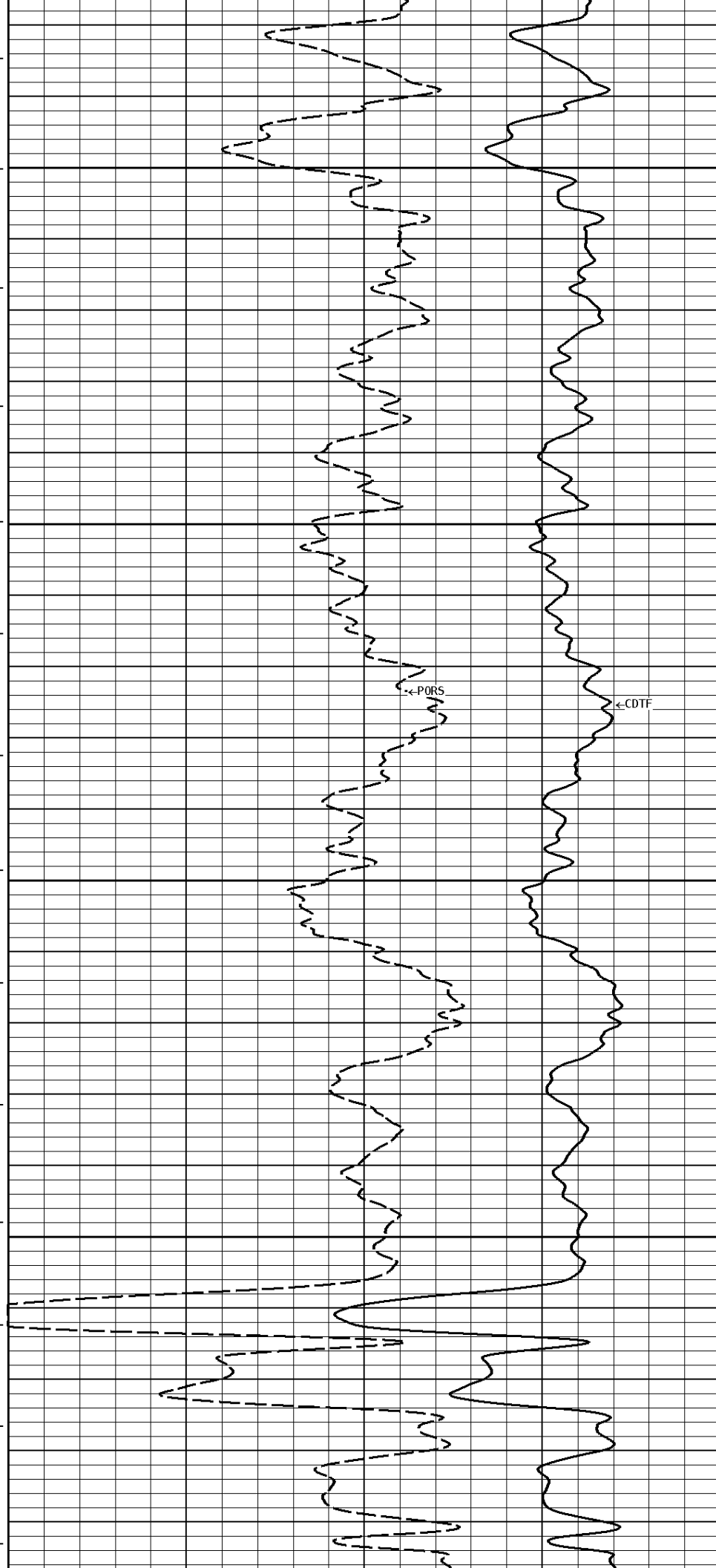
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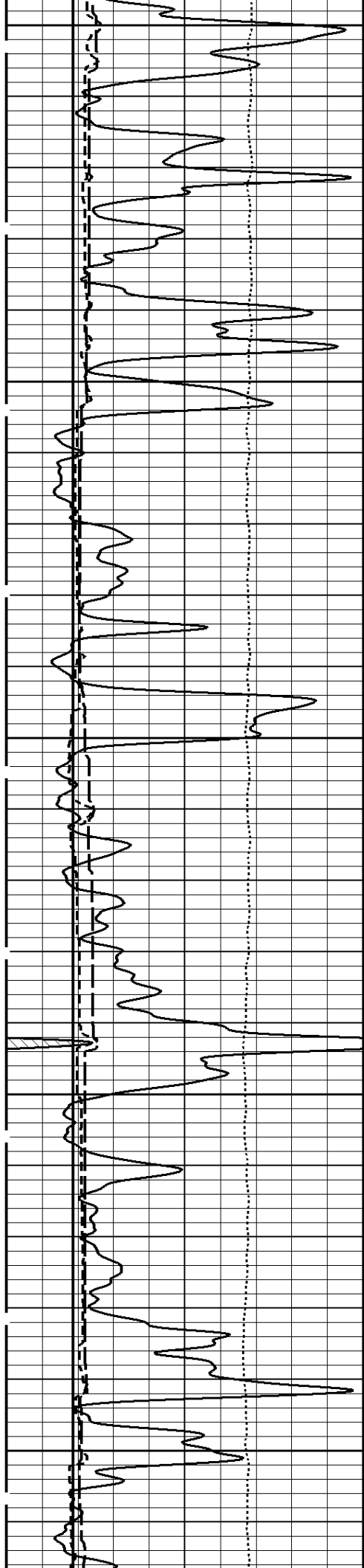




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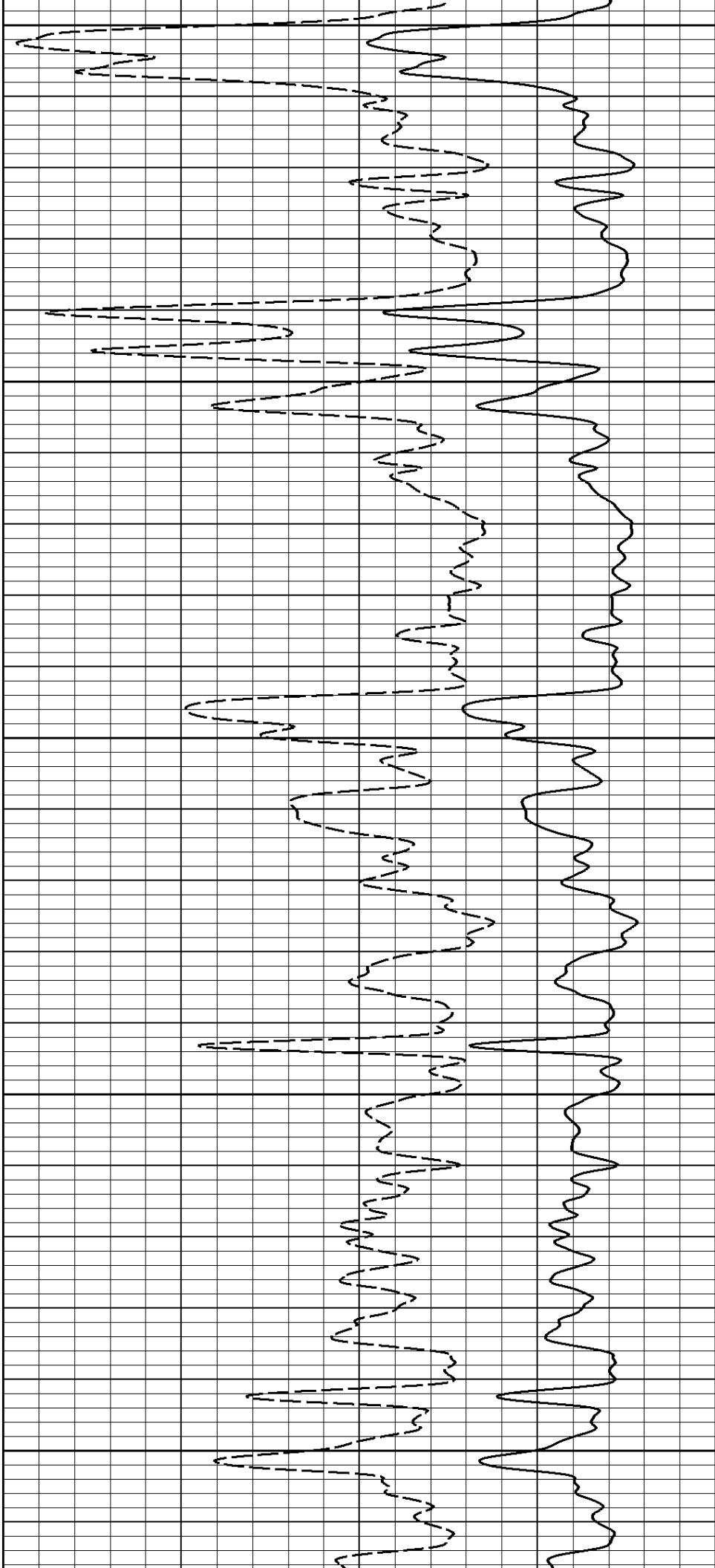


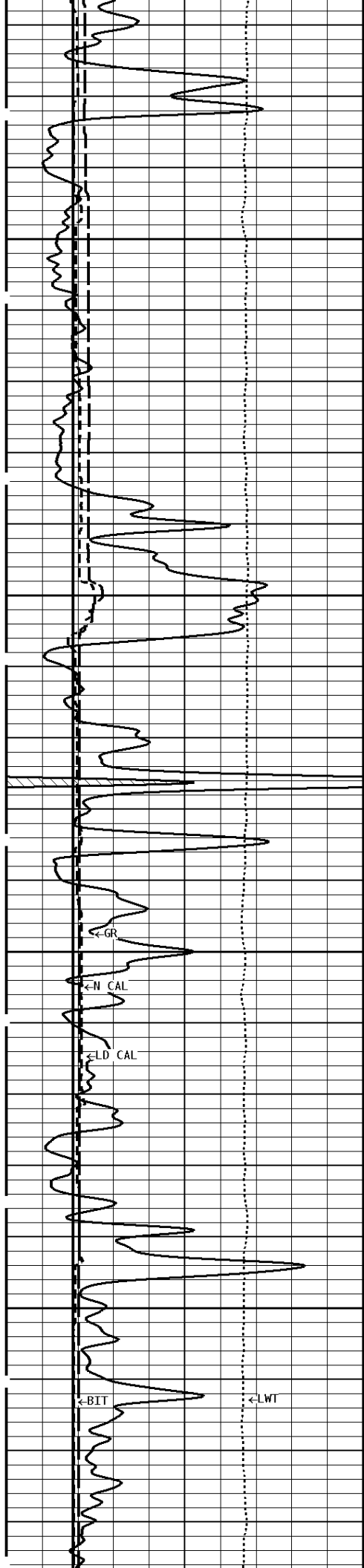


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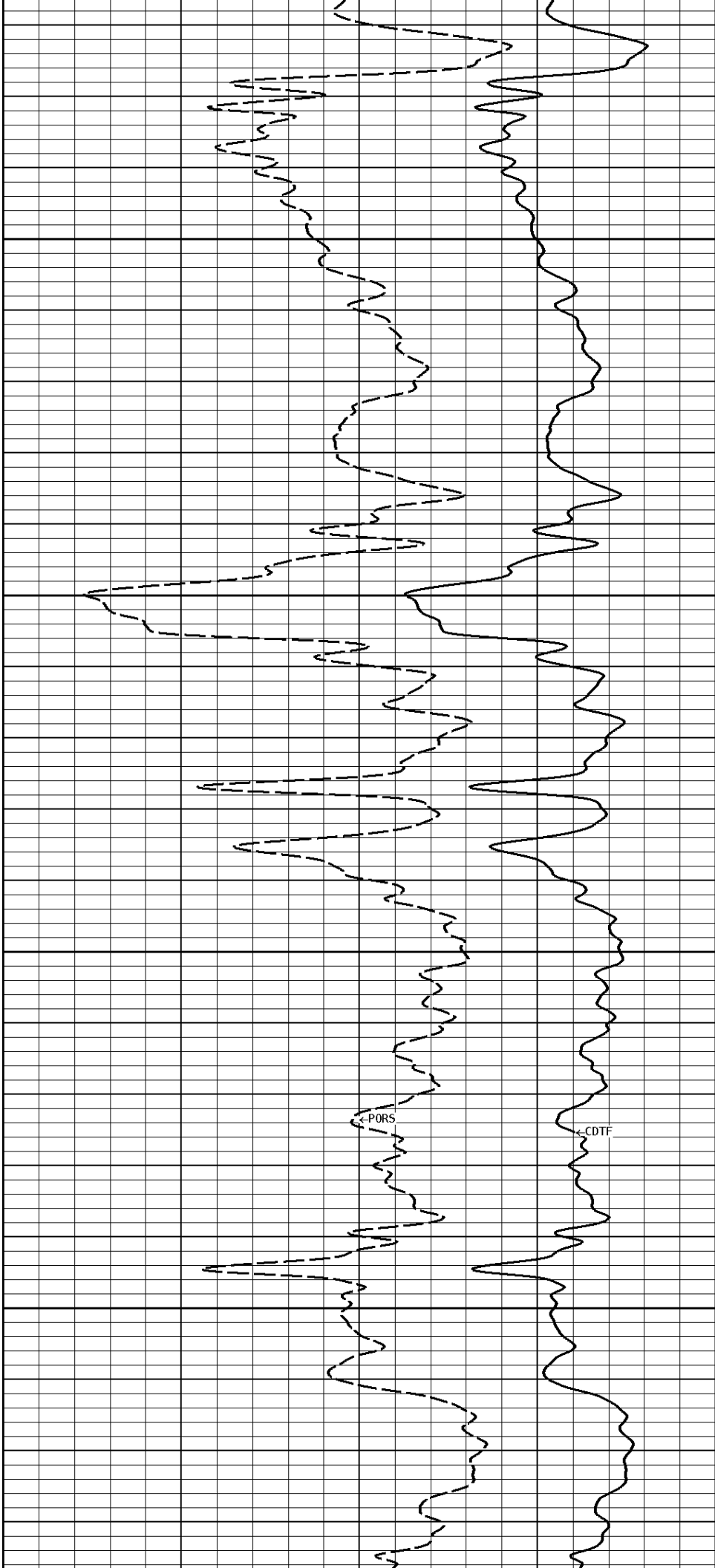
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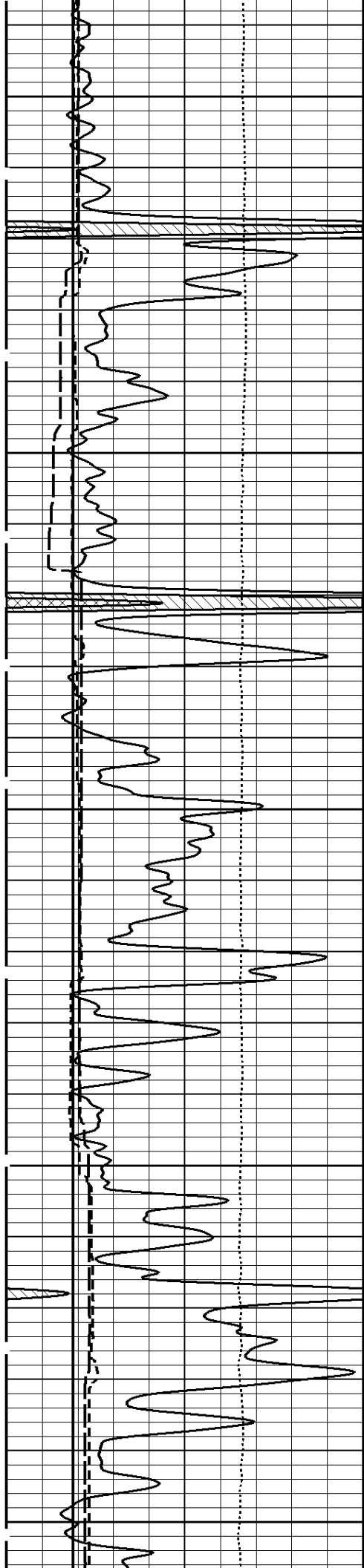




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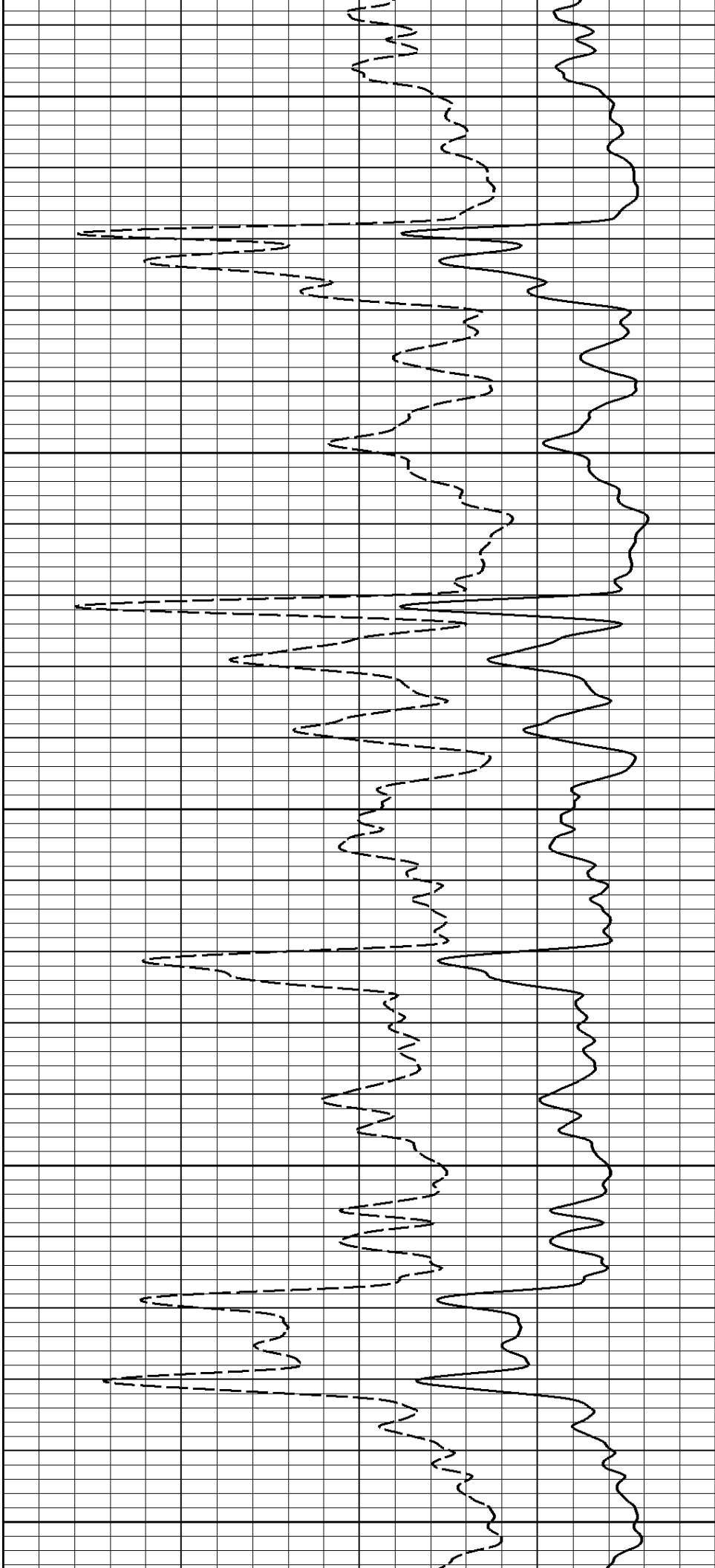
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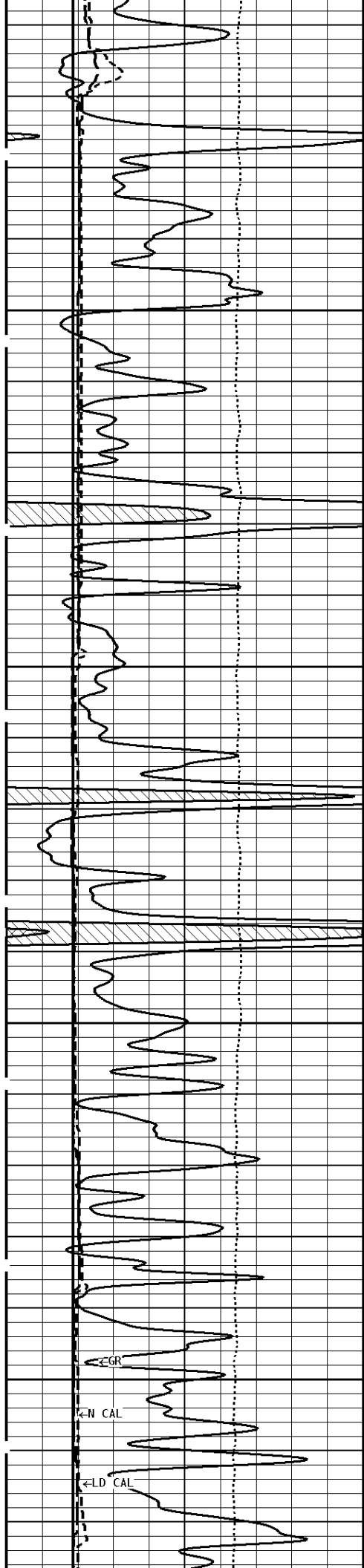




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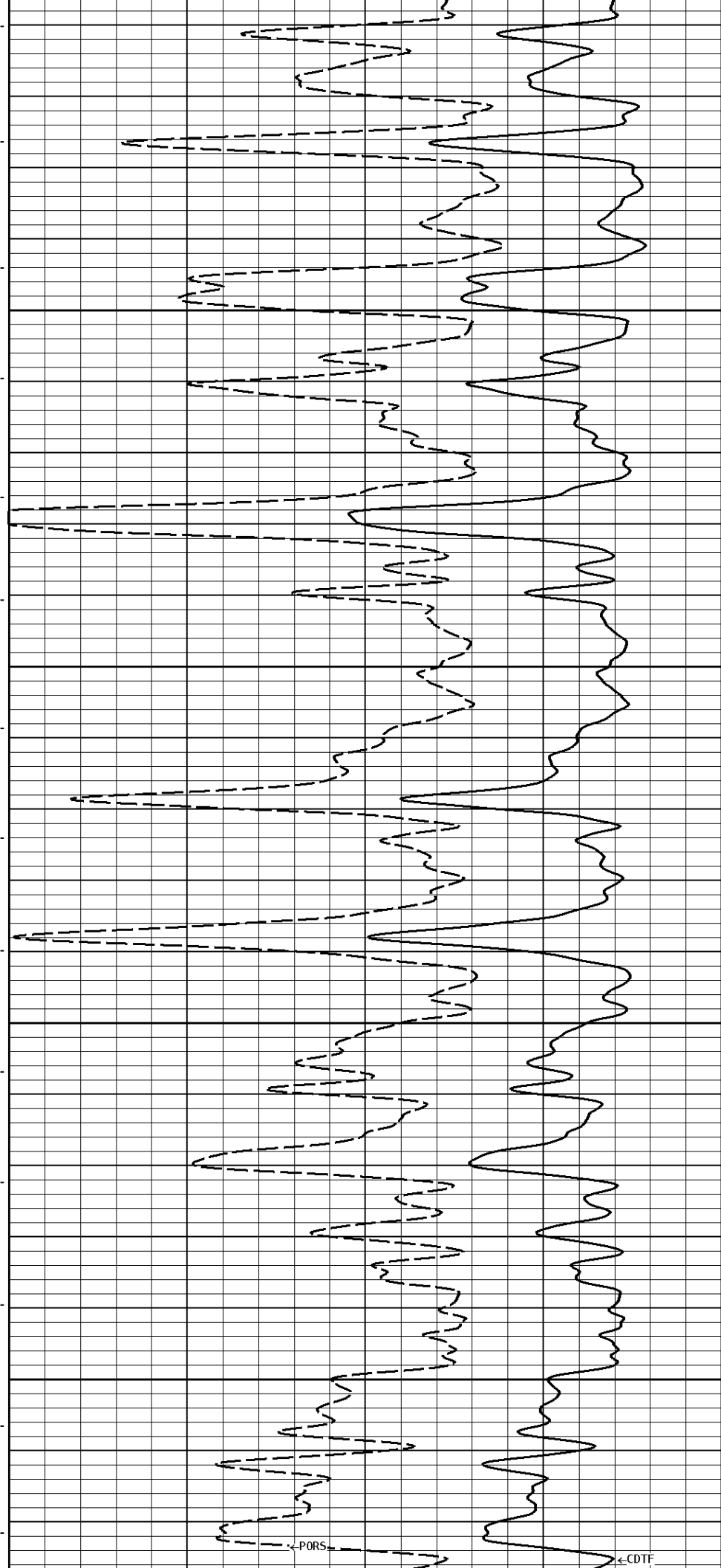
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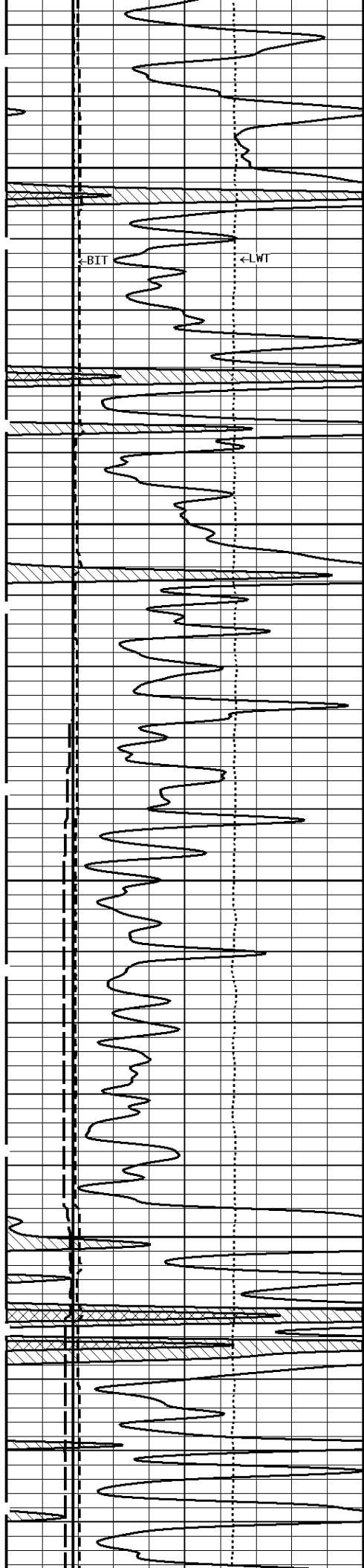




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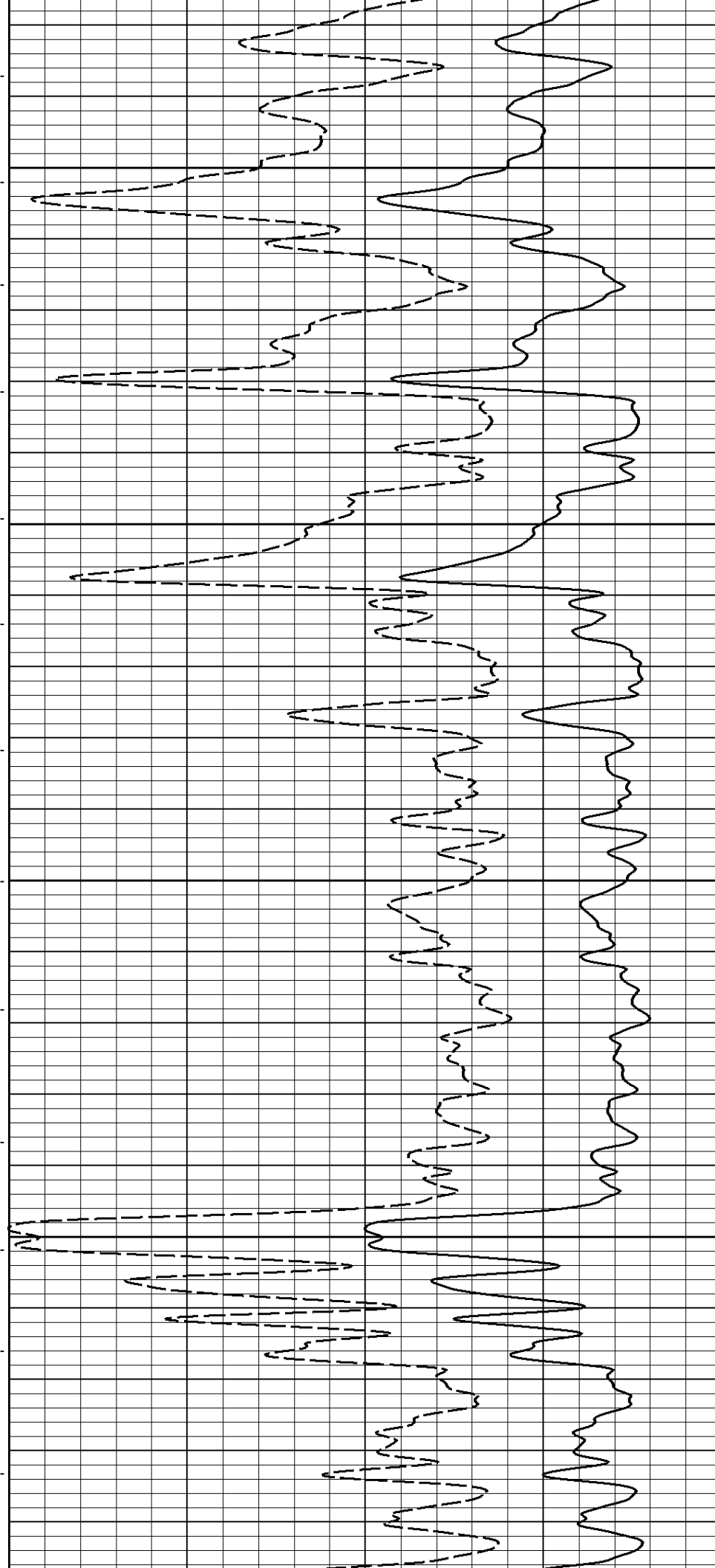
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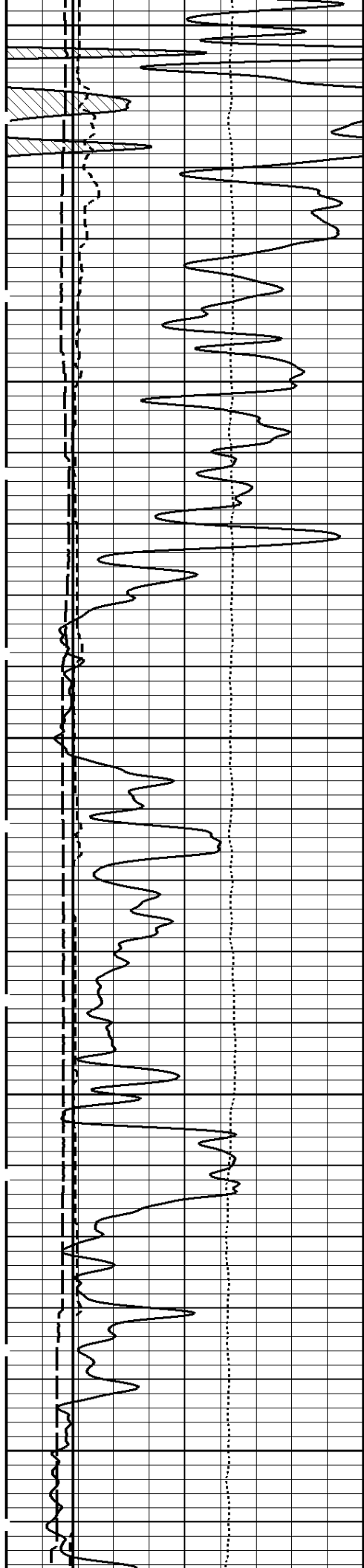




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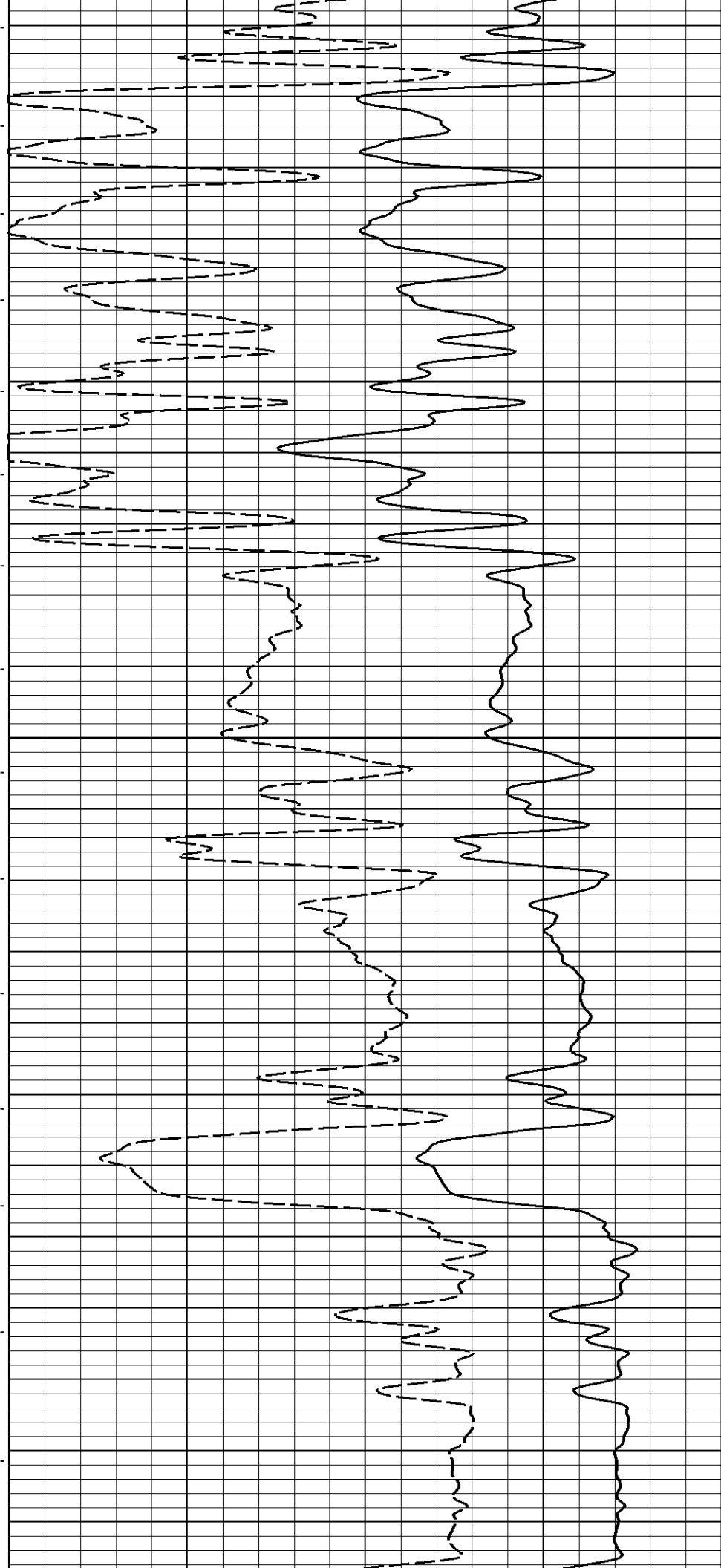


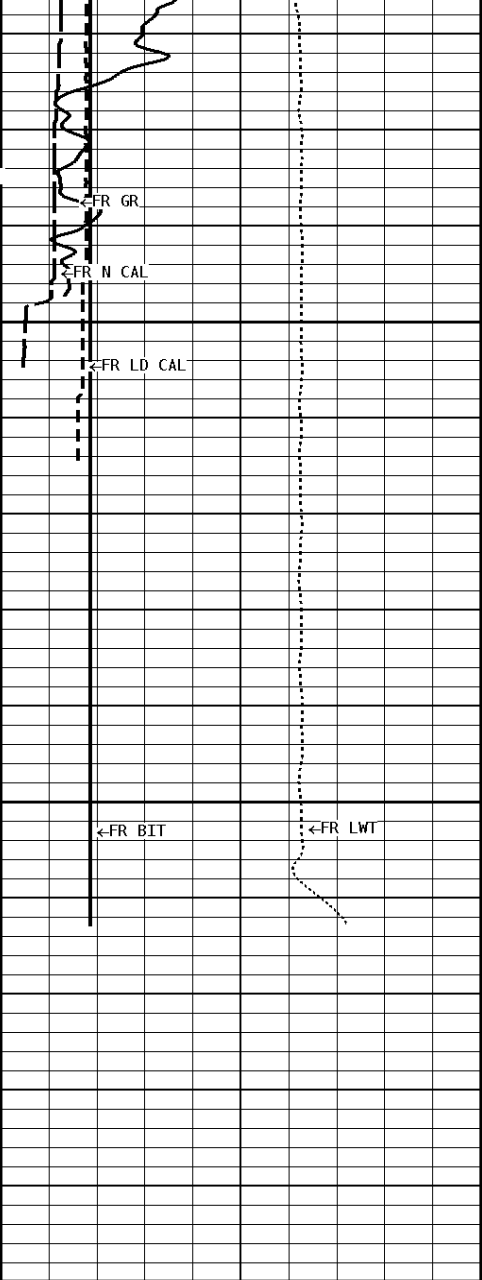


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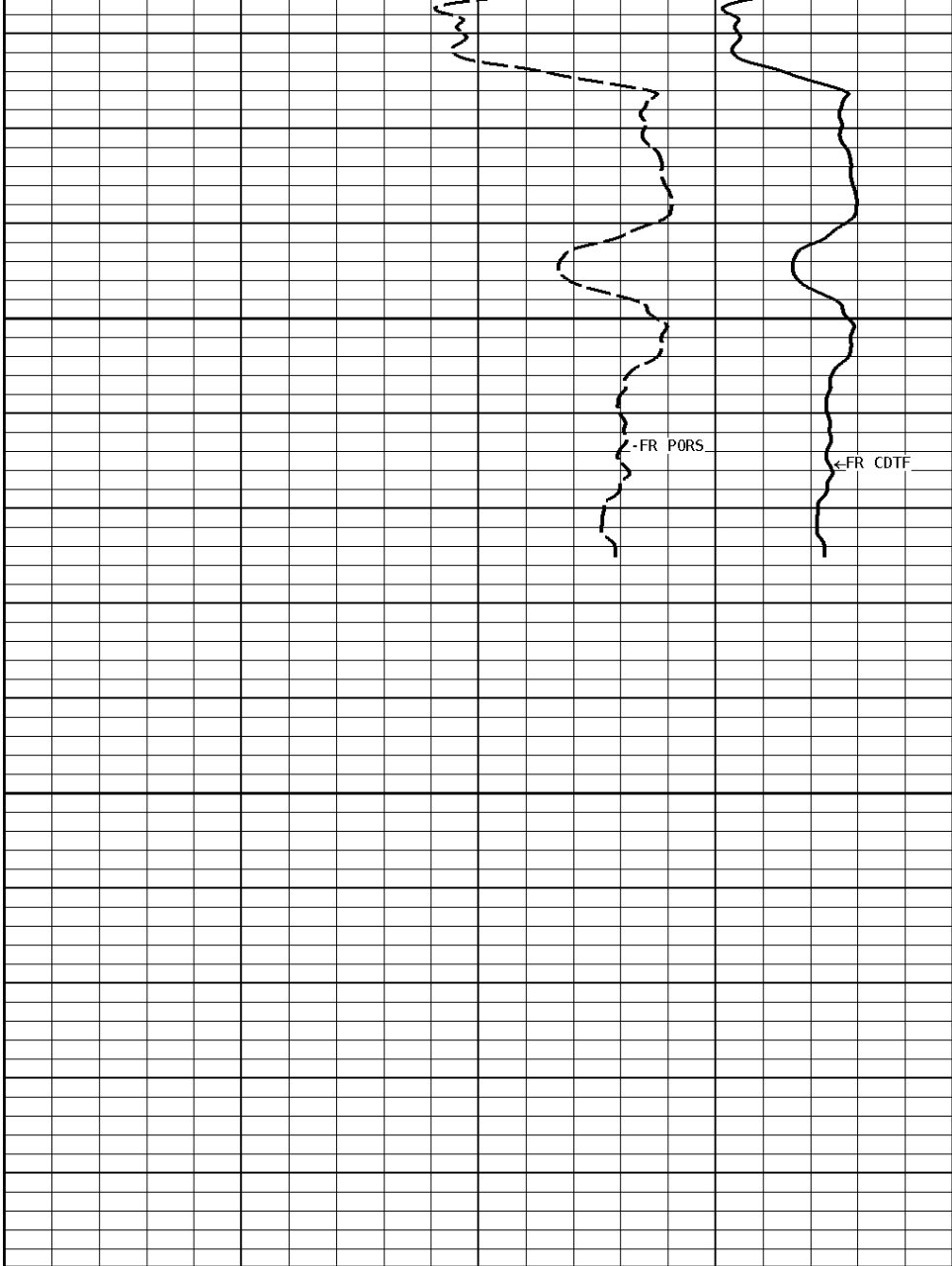
5400

5500





5600
5603



1:240 MAIN SECTION

GAMMA RAY API UNITS		
150		300
0		150
TENSION LBS		
10000		0
BIT SIZE INCHES (IN)		
6		16
DENSITY (X) CALIPER INCHES (IN)		
16		26
6		16
NEUTRON (Y) CALIPER		

SONIC POROSITY PERCENT		
30		-10
COMPENSATED SONIC TRAVEL TIME uSEC/FT		
240		140
140		40

INCHES (IN)	
16	26
6	16

Well File: MERIT DANIELS 1-28 FEB-6_QST	Scale: 1:240	Format: CST-240
Segment: V1.D1.S15 REPEAT FINAL	Acquired: 2020-02/06 16:34 3.4.1-13972	
Reference: 0	Processed: 2020-02/06 21:09 3.4.1-13972	

NEUTRON (Y) CALIPER INCHES (IN)	
16	26
6	16

DENSITY (X) CALIPER INCHES (IN)	
16	26
6	16

BIT SIZE INCHES (IN)	
6	16

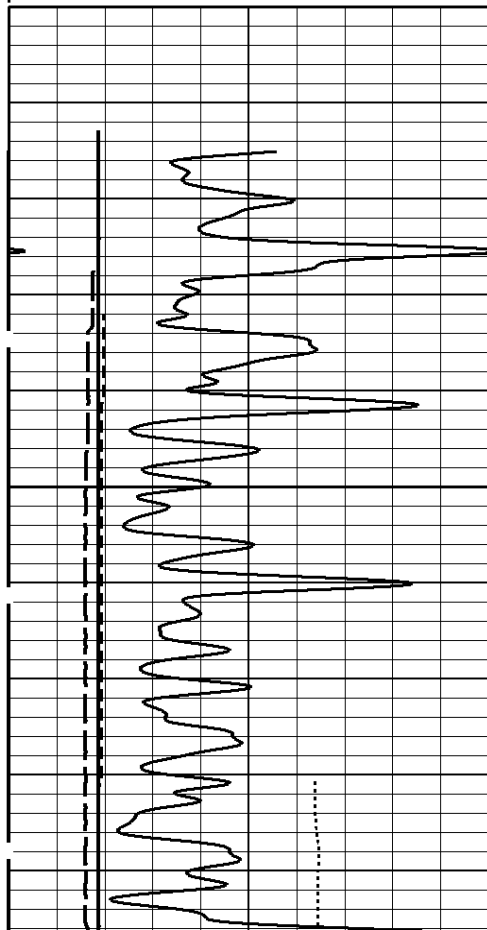
TENSION LBS	
10000	0

GAMMA RAY API UNITS	
150	300
0	150

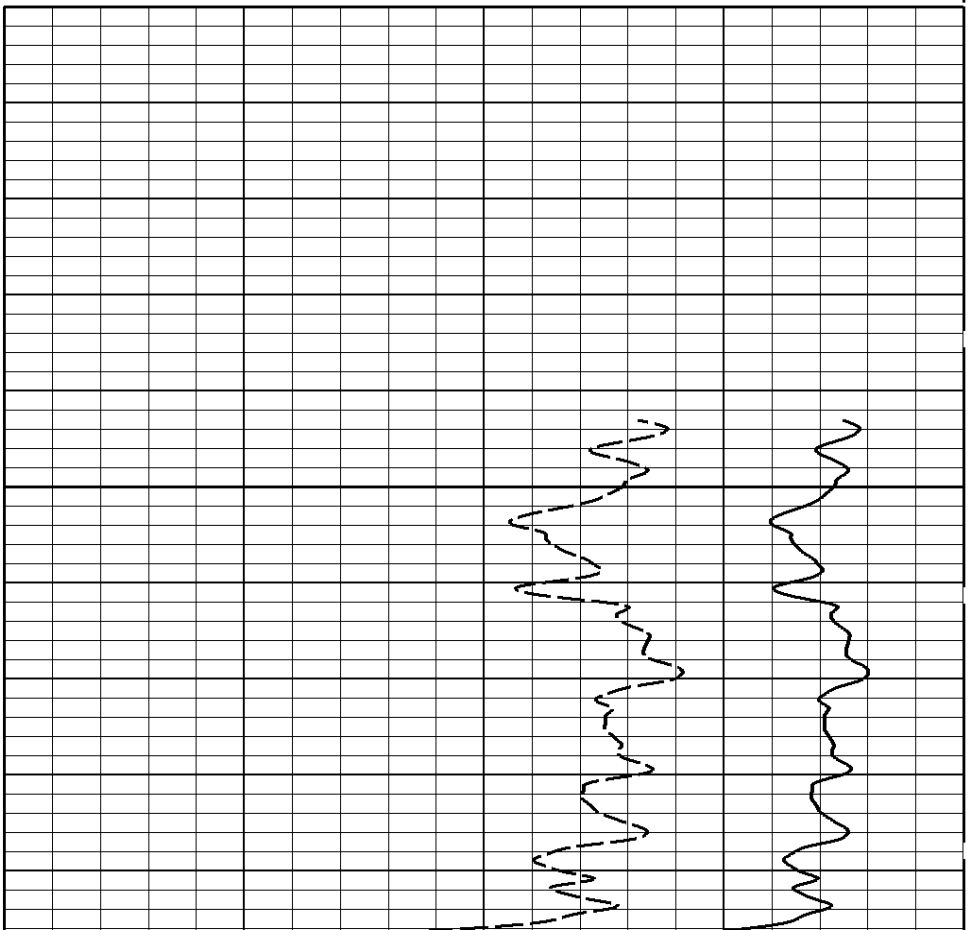
COMPENSATED SONIC TRAVEL TIME uSEC/FT	
240	140
140	40

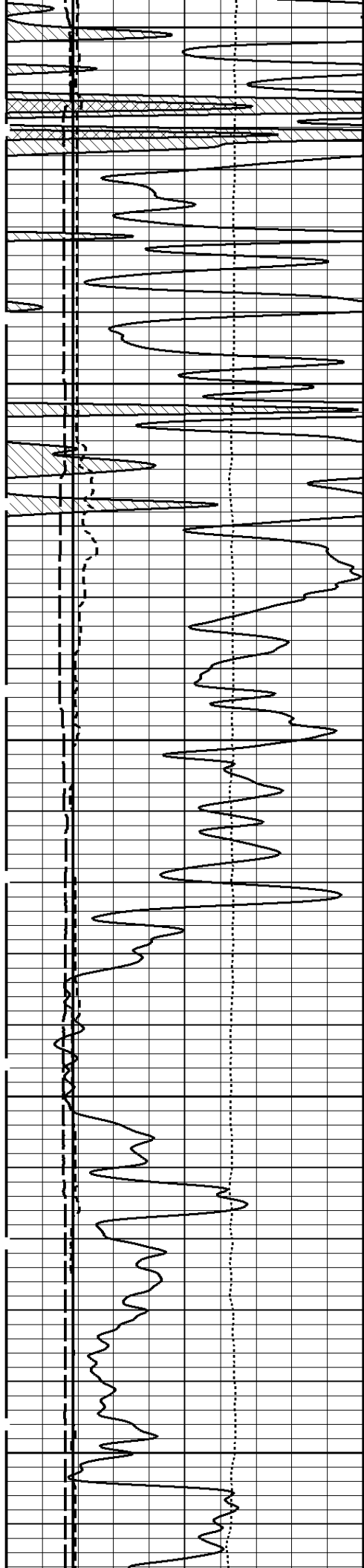
SONIC POROSITY PERCENT	
30	-10

1:240 REPEAT SECTION



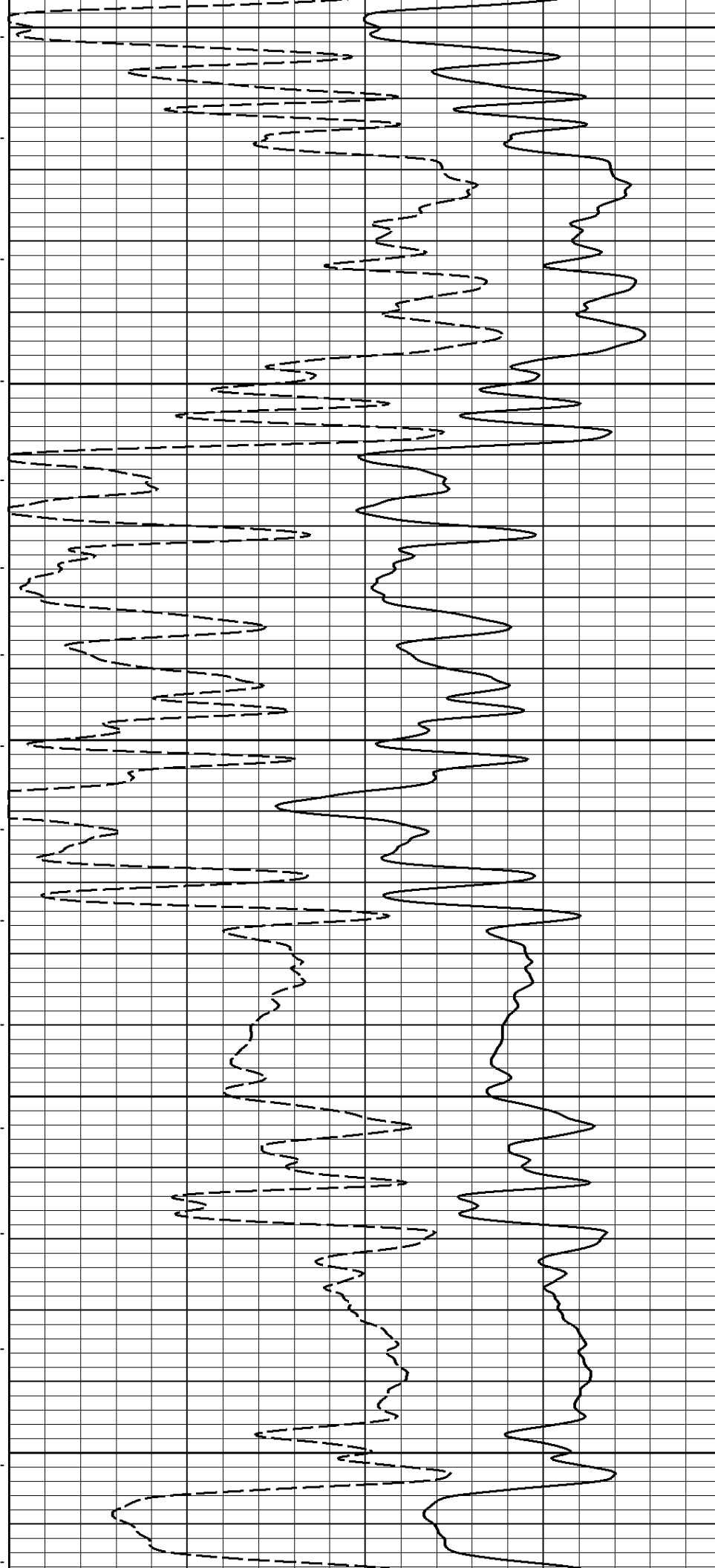
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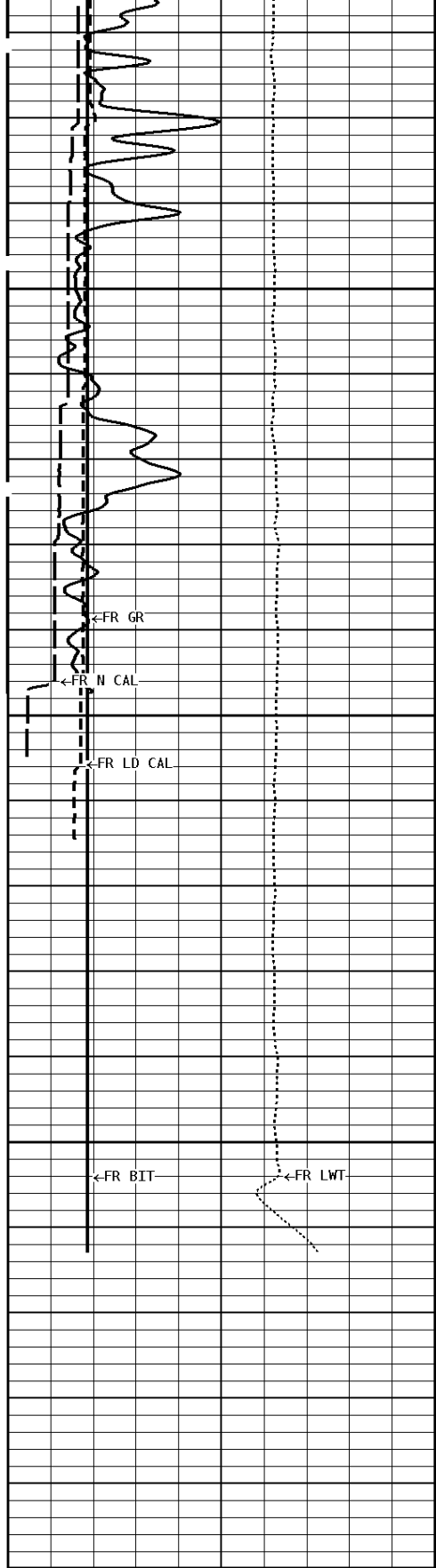




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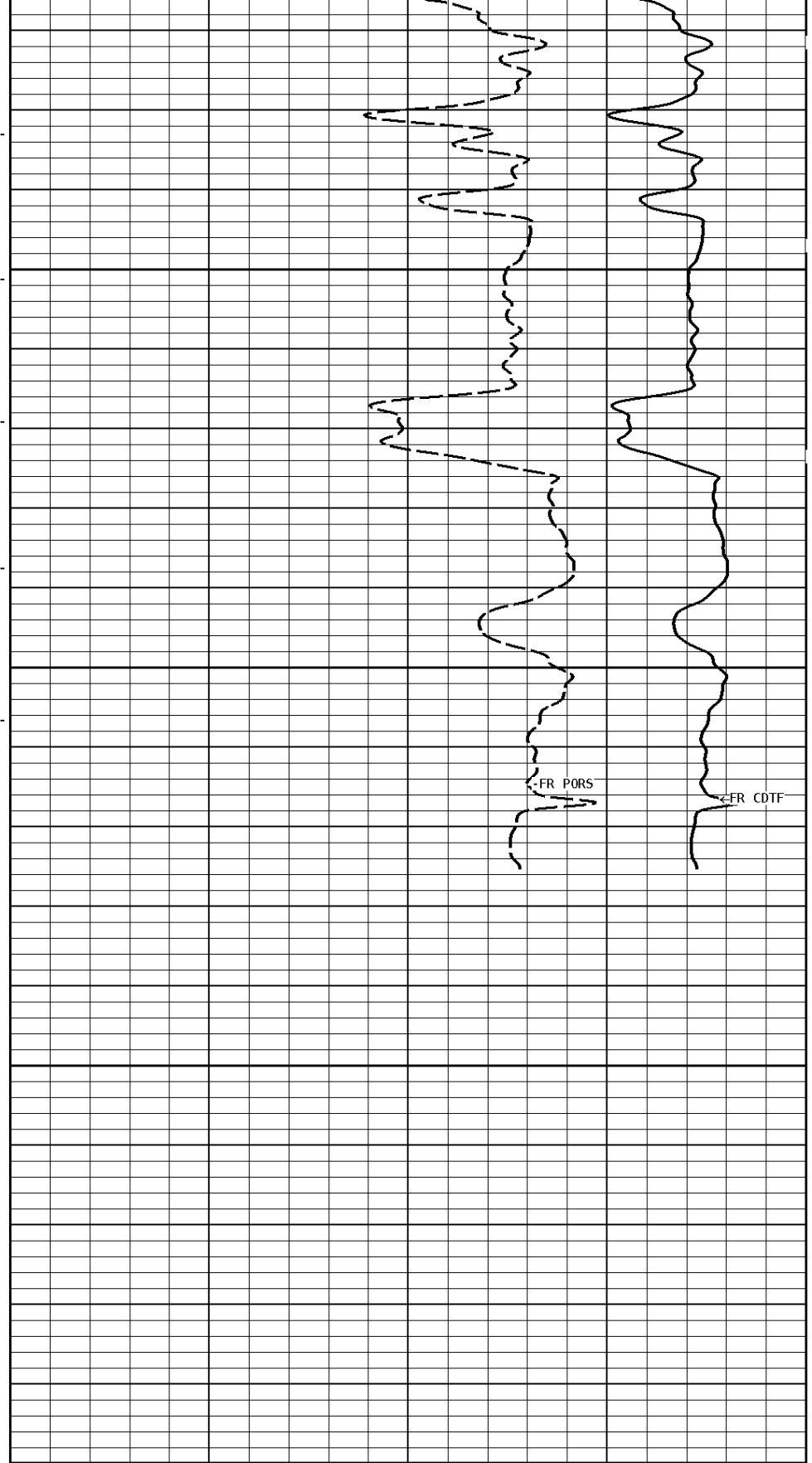




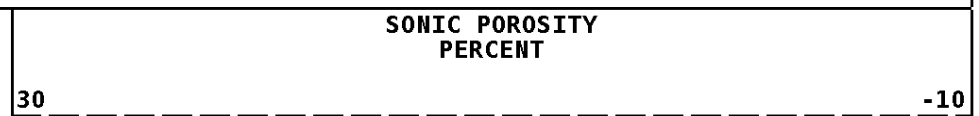
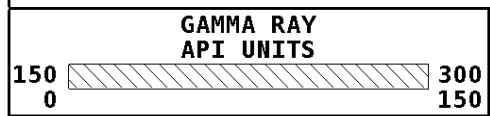
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5600
5604

File #1.1.15



1:240 REPEAT SECTION



TENSION LBS	
10000	0
BIT SIZE INCHES (IN)	
6	16
DENSITY (X) CALIPER INCHES (IN)	
16	26
6	16
NEUTRON (Y) CALIPER INCHES (IN)	
16	26
6	16

COMPENSATED SONIC TRAVEL TIME uSEC/FT	
240	140
140	40

*** Borehole Zone Factors ***

Zone 1	99999.0	to	0.0	Feet
Matrix Transit Time			47.5	us/ft
Fluid Transit Time			189.0	us/ft

*** Calibration Summary ***

Shop Calibration GRT-B				
Performed : 24-JUN-2019		Time : 12:20		
Sensor Suite : GR-GR5		ID : GRT-BC-038		
	Measured	Units	Calibrated	Units
GR	Background	Jig	Jig	
	36	266	160	GRAPI
Shop Calibration CST-AD				
Performed : 03-JAN-2020		Time : 17:36		
Sensor Suite : SON-ANA		ID : CST-AB-24		
	Measured	Transit Time	Calibrated	Units
T/R Pair				
T1R1	358.5		208.5	uS
T2R2	358.5		208.5	uS
T1R2	472.5		322.5	uS
T2R1	472.5		322.5	uS
	Measured	Amplitude	Calibrated	Units
T/R Pair				
T1R1	90.00		90.00	mV
T2R2	90.00		90.00	mV
T1R2	78.00		78.00	mV
T2R1	78.00		78.00	mV