

**Tucker**  
ENERGY SERVICES

BOREHOLE COMPENSATED

SONIC LOG

Company: RUNNING FOXES PETROLEUM  
Well: ROUSH #11-10  
Field: LIVINGOOD SOUTH  
Country: BROWN  
State: KANSAS  
Country: USA  
API No.: 15-013-20035-0000

File No.: TUL-56861  
Company: RUNNING FOXES PETROLEUM INC.  
Well: ROUSH #11-10  
Field: LIVINGOOD SOUTH  
Country: BROWN  
State: KANSAS  
Country: USA  
API No.: 15-013-20035-0000

Location: 2250' FSL & 1880' FWL  
SE NW NE SW

LSD:                      Sect: 10                      Twp: 1S                      Rge: 15E

Permanent Datum:	GL	Elevations:	Ft	Services:	CNT	CST
Drilling Measured From:	KB	KB	1149.00	LDT	PIT	
Log Measured From:	KB	DF	1148.00	MLT		
Above Permanent Datum:	9.00 Ft	GL	1140.00			
Date:	08-04-2013					
Run Number	1					
Depth--Driller	3880.0 Ft					
Depth--Logger	3878.0 Ft					
First Reading	3855.0 Ft					
Last Reading	220.0 Ft					
Casing--Driller	220.0 Ft					
Casing--Logger	220.0 Ft					
Bit Size	7.875 In					
Casing Size	8.625 In					
Hole Fluid Type	CHEM-GEL					
Density	8.9 lb/gal					
Fluid Loss	8.0 ml/30min					
PH/Viscosity	9.5                      42.0 sec/qt					
Sample Source	MEASURED					
RMF@Measured Temp.	2.000 @ 75 F					
RMF@Measured Temp	1.600 @ 75 F					
RMF@Measured Temp.	2.400 @ 75 F					
Source RMF/RMC	CALCULATED/CALCULATED					
RM@BHT	1.340 @ 115 F					
Time Circulation Stopped	08-04-2013 7:00 am					
Max Recorded Temp.	115 F					
Equipment/Base	127 TULSA					
Recorded By	SHELDON TYLER					
Witnessed By	CHAD COUNTS					

The customer is hereby warned that by providing the log data herein, T. E. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. E. S. 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 T. E. S. 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 T. E. S. 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	3880.00	8.625	32.00	220.00	0.00

Run Number	1	
Date	08-04-2013	
Date/Time On Bottom	08-04-2013 10:00 am	
Depth to Fluid	0.0	Ft
Salinity	800.000	mg/L
RMF@BHT	1.070	@ 115 F
RMC@BHT	1.610	@ 115 F

Run Number 1

Comments

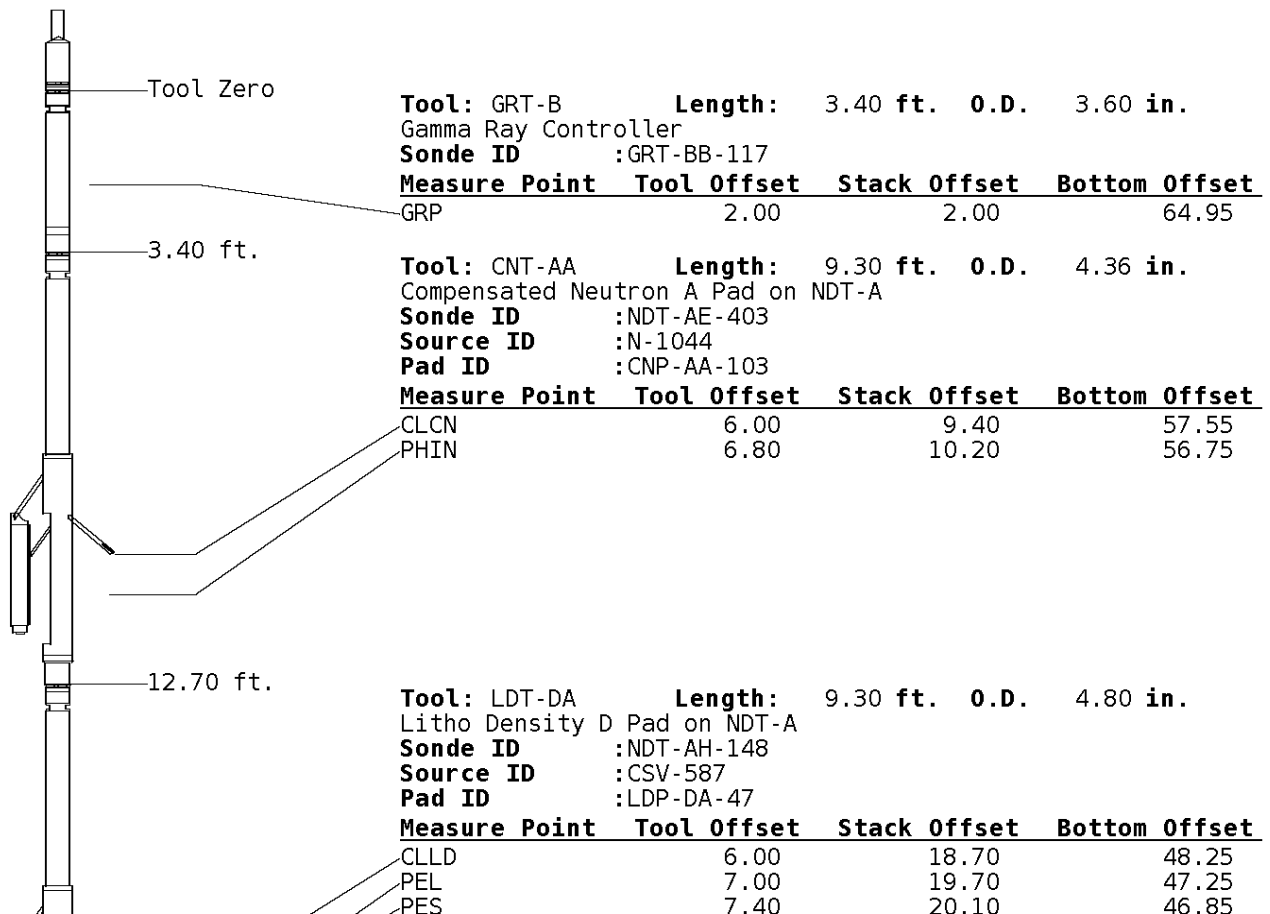
ALL PRESENTATIONS AS PER CUSTOMER REQUEST  
 GRT, CNT, LDT, MLT, CST AND PIT RUN IN COMBINATION.  
 CALIPERS ORIENTED ON X-Y AXIS.  
 2.71 G/CC USED TO CALCULATED POROSITY.  
 ANNULAR HOLE VOLUME CALCULATED UISING 5.500" PRODUCTION CASING.

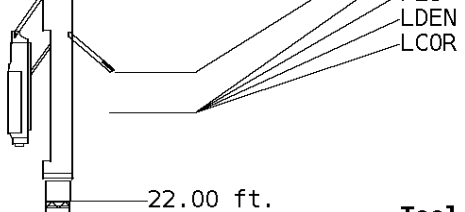
GRT: GRP.  
 CNT: PHIN, CLCNIN, PHXN.  
 LDT: PORL,LCORN,PECLN,LDENN,PORLLS,CLLDIN, PXRL,LCXRN,PECLNX,LDENNX,PXRLLS.  
 MLT: NOR\_RF, INV\_RF, MSCLPIN.  
 CST: PORS, CDTF, TT1PF, TT2PF, TT3PF, TT4PF, ITT.  
 PIT: ILD, ILM, SPU, SFLAEC

OPERATORS:  
 A.JAHO  
 J.JOHNSON

### Tool String Schematic

**Total Tool Length** - 66.95 ft.  
**Maximum Outside diameter** - 6.00 in.  
**Net Weight in Air** - 1171.00 lbs.

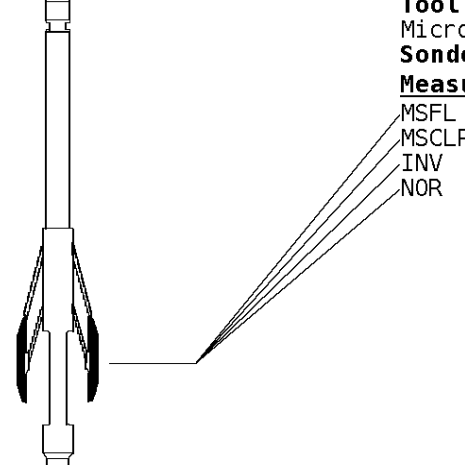




7.20 19.90 47.05  
 7.20 19.90 47.05

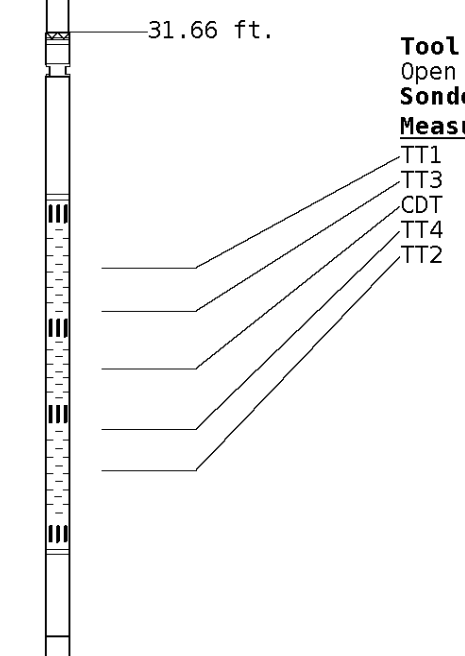
**Tool:** MST-DA      **Length:** 9.66 ft.   **O.D.** 6.00 in.  
 Micro Spherically Focused (IC)  
**Sonde ID** :MST-DA-31

Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	37.35
MSCLP	7.60	29.60	37.35
INV	7.60	29.60	37.35
NOR	7.60	29.60	37.35



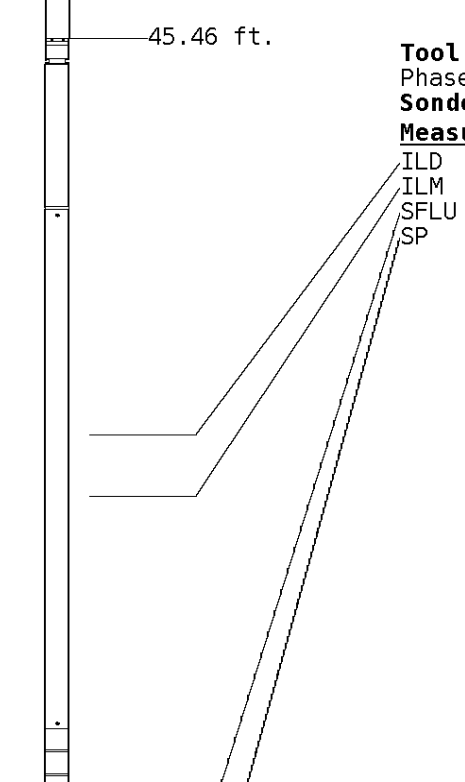
**Tool:** CST-AD      **Length:** 13.80 ft.   **O.D.** 3.60 in.  
 Open Hole Sonic  
**Sonde ID** :CST-AB-012

Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	36.46	30.49
TT3	5.80	37.46	29.49
CDT	7.30	38.96	27.99
TT4	8.80	40.46	26.49
TT2	9.80	41.46	25.49



**Tool:** PIT-CA      **Length:** 21.49 ft.   **O.D.** 3.62 in.  
 Phased Dual Induction w/ RM & D  
**Sonde ID** :PIT-AC-13

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	54.38	12.56
ILM	10.10	55.56	11.39
SFLU	17.49	62.95	4.00
SP	20.60	66.06	0.88



LWT 66.95 ft.

Well File: RFP ROUSH 11-10 AUGUST4 QUINT  
 Segment: V1.D1.S5 Reprocess of MAIN  
 Reference: 0

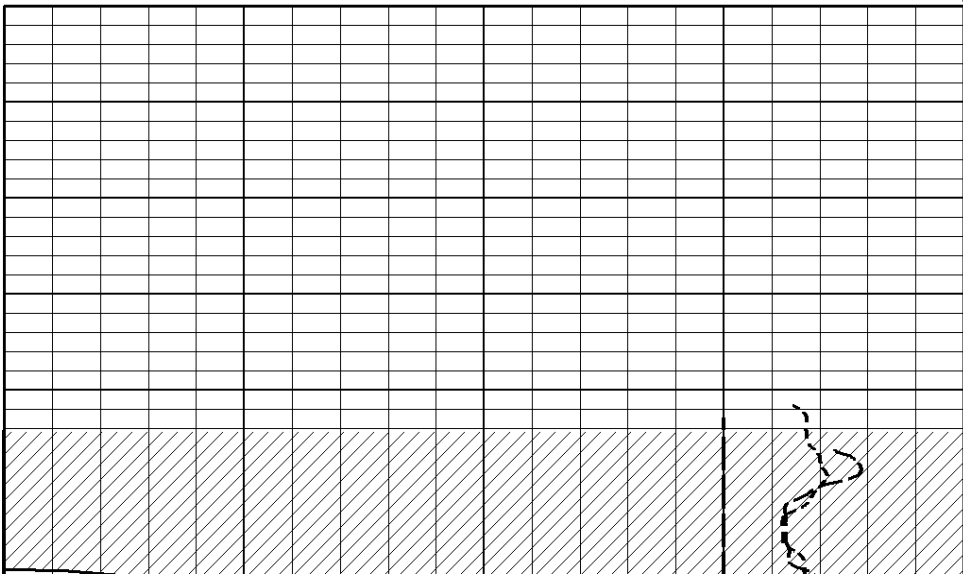
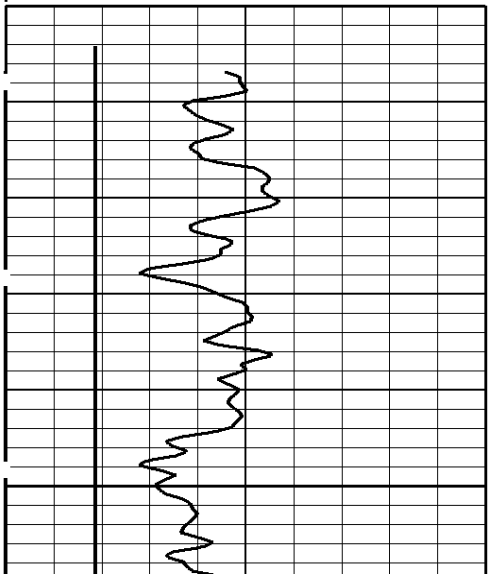
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 Processed: 2013-08/04 11:21 3.3.0-12217

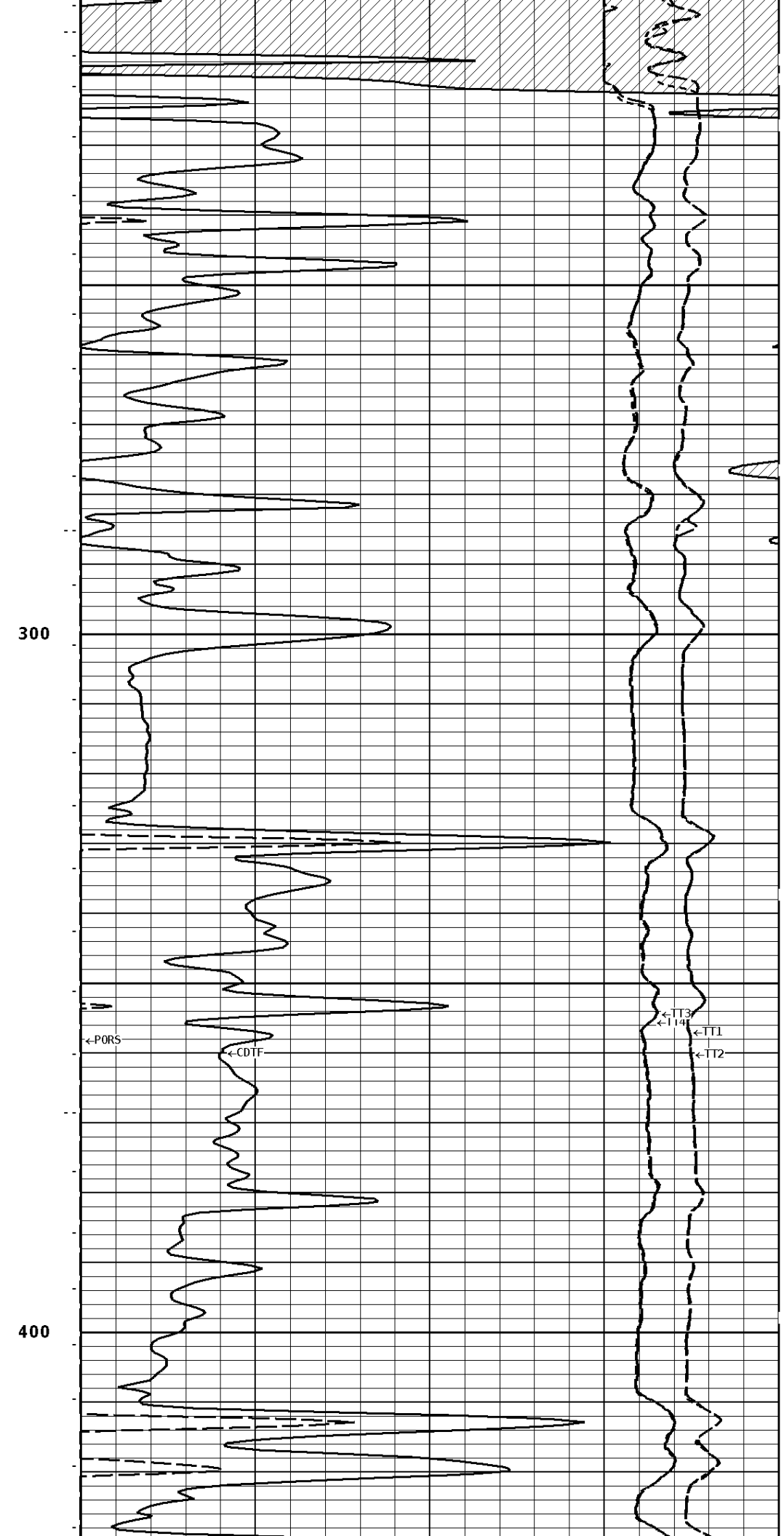
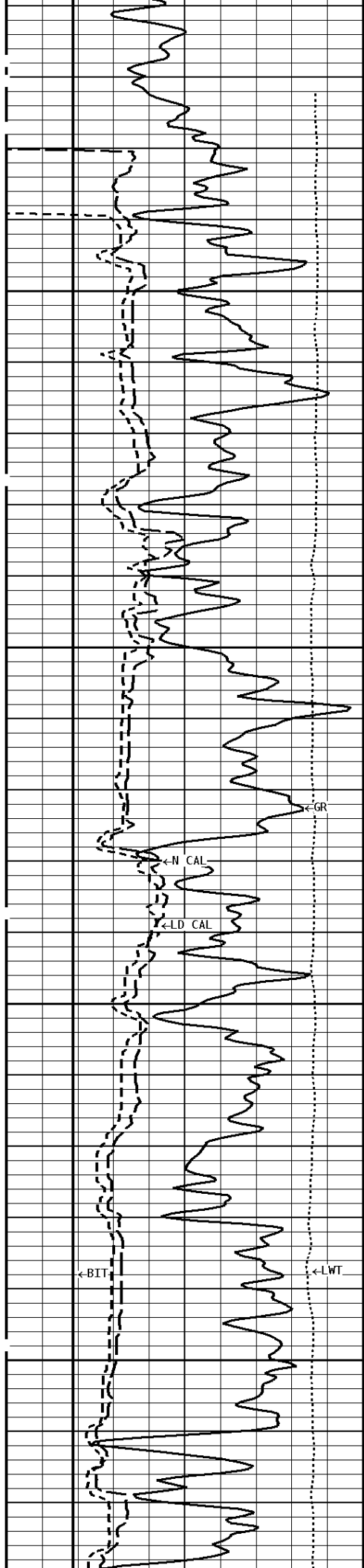
<b>NEUTRON (Y) CALIPER INCHES (IN)</b>	
16	26
6	16
<b>DENSITY (X) CALIPER INCHES (IN)</b>	
16	26
6	16
<b>BIT SIZE INCHES (IN)</b>	
6	16
<b>TENSION LBS</b>	
10000	0
<b>GAMMA RAY API UNITS</b>	
150	300
0	150

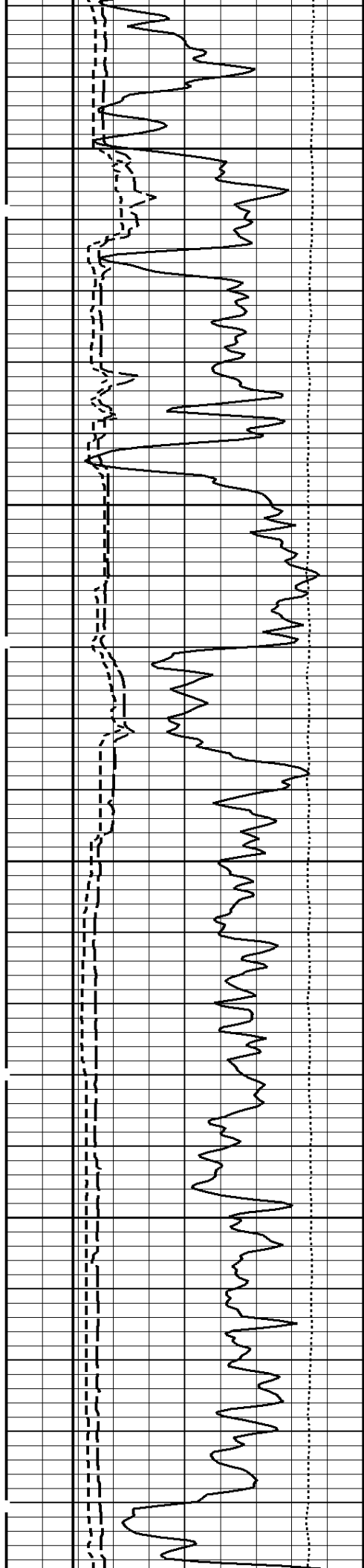
<b>TT4 uSEC</b>	
950	50
<b>TT3 uSEC</b>	
950	50
<b>TT2 uSEC</b>	
950	50
<b>TT1 uSEC</b>	
950	50

<b>COMPENSATED SONIC TRAVEL TIME uSEC/FT</b>	
240	140
<b>SONIC POROSITY PERCENT</b>	
30	-10

**1:240 MAIN SECTION**

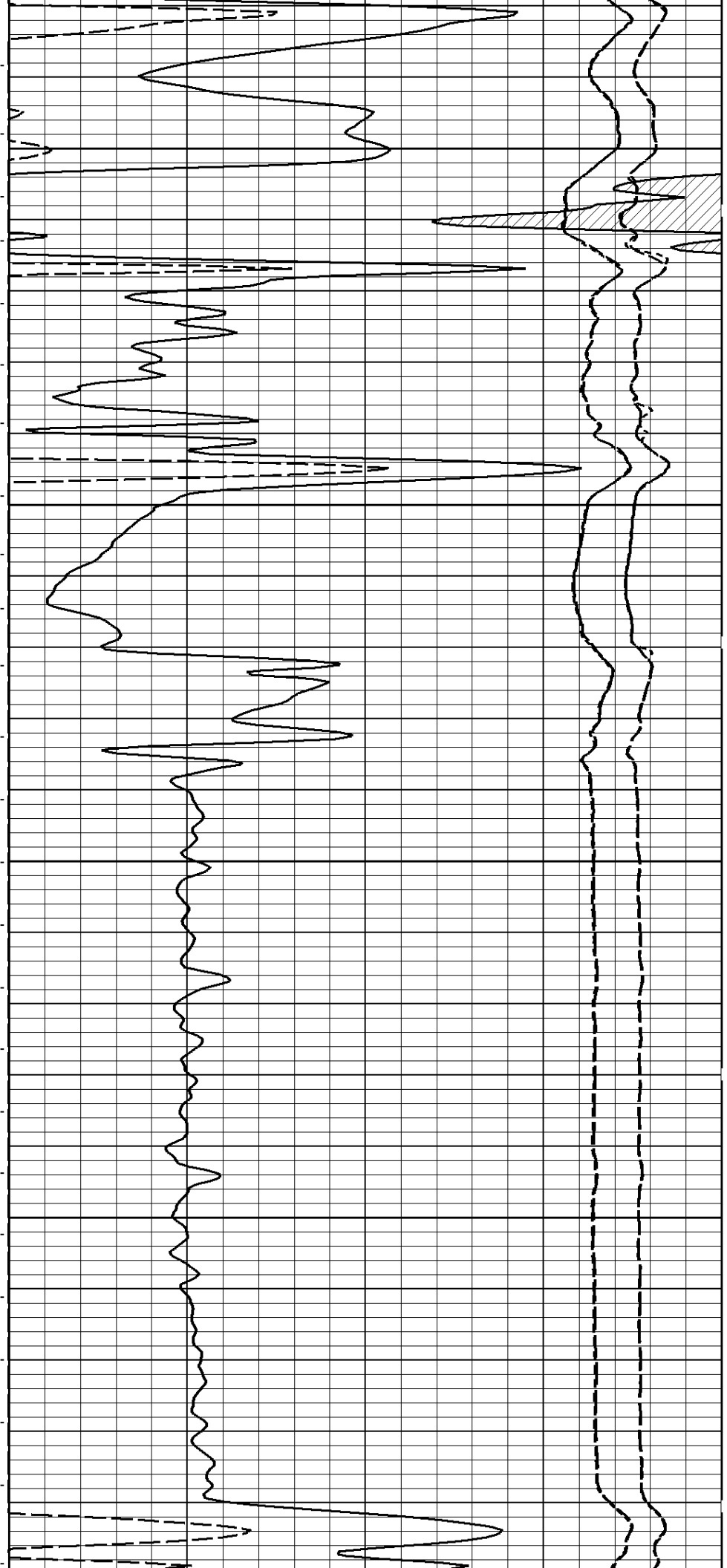


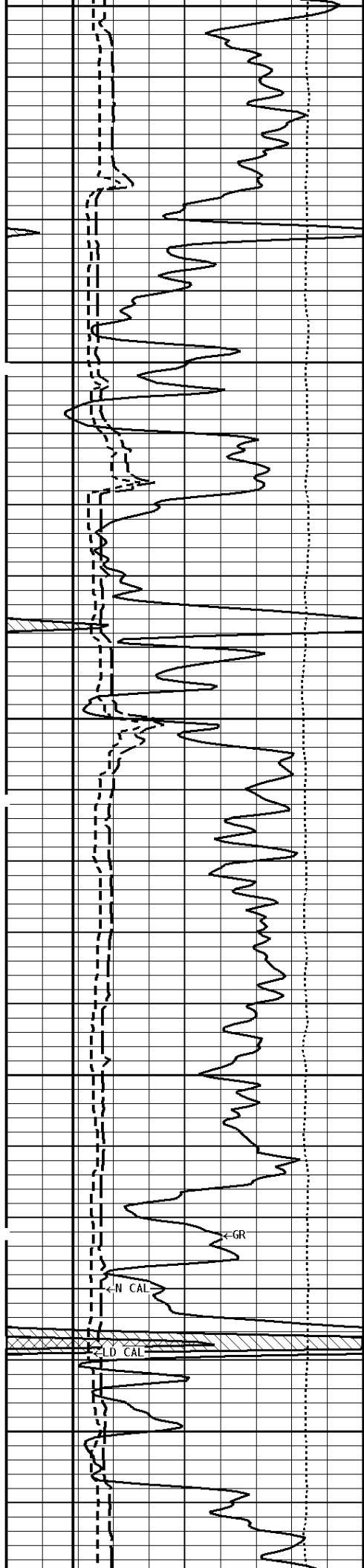




500

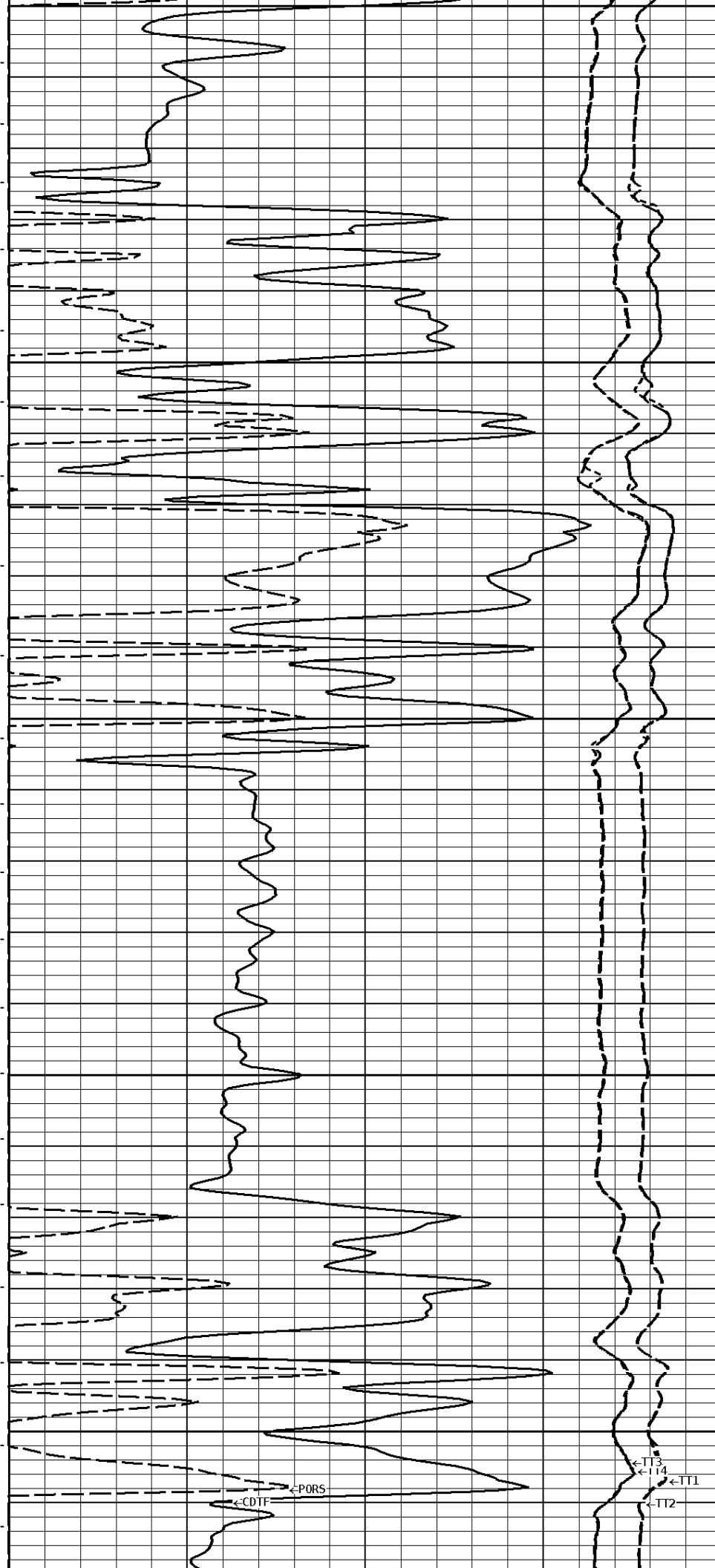
600

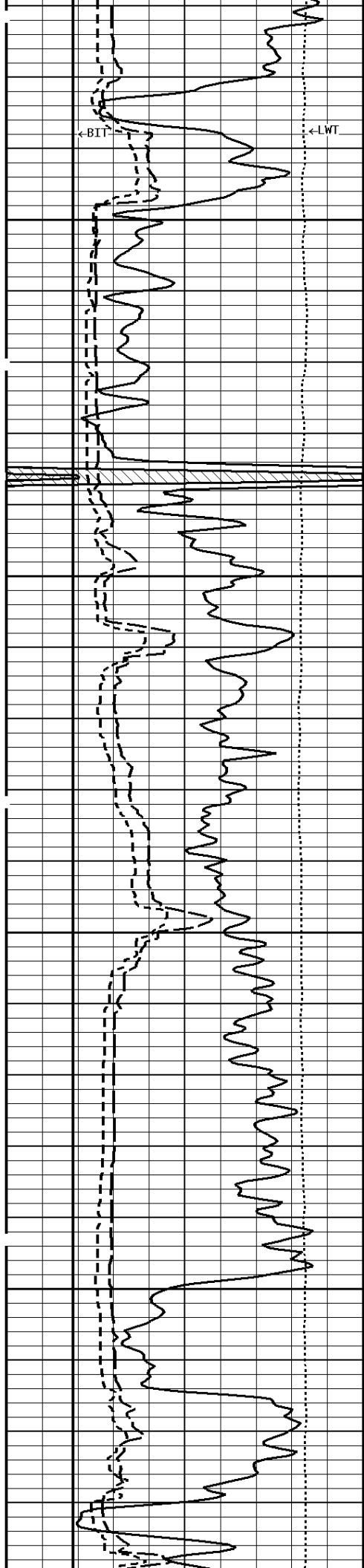




700

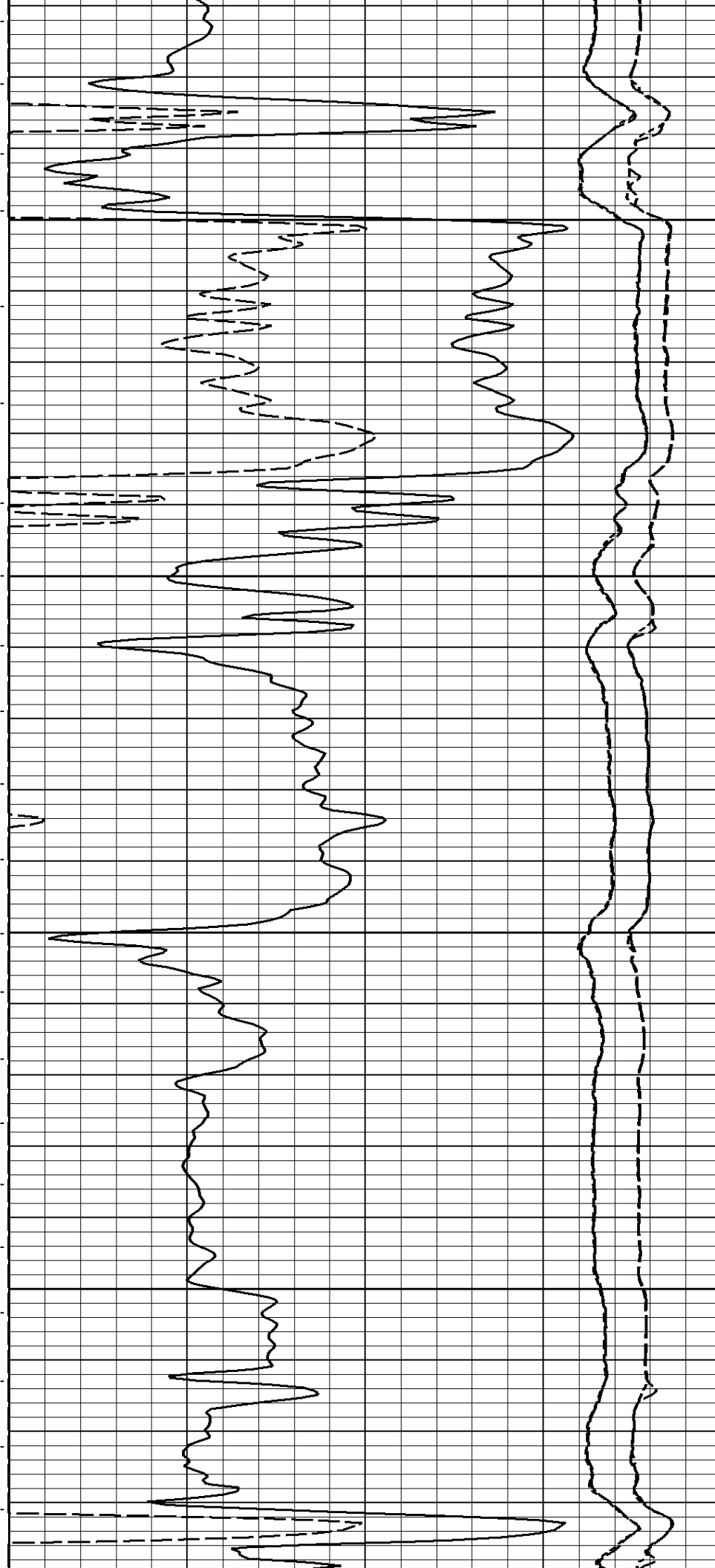
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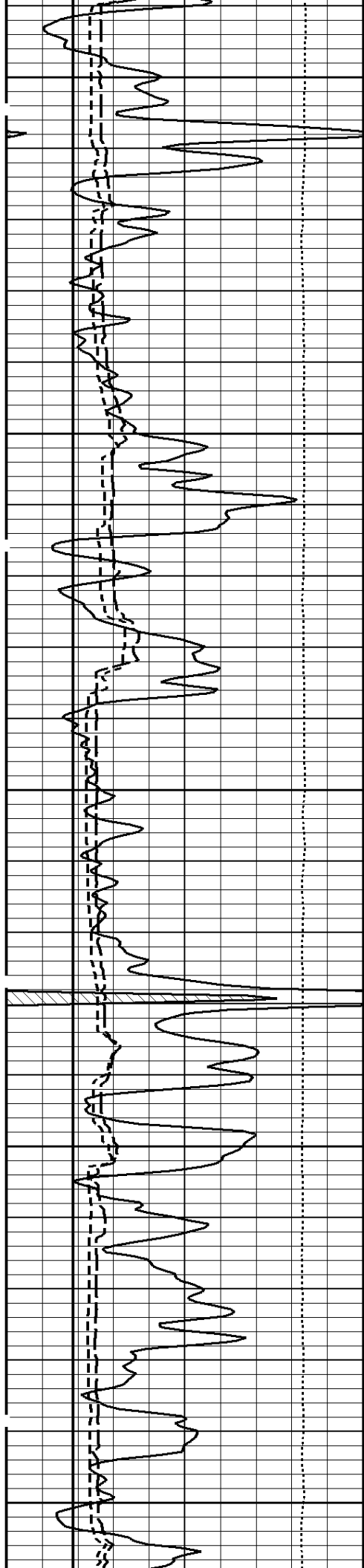




900

1000

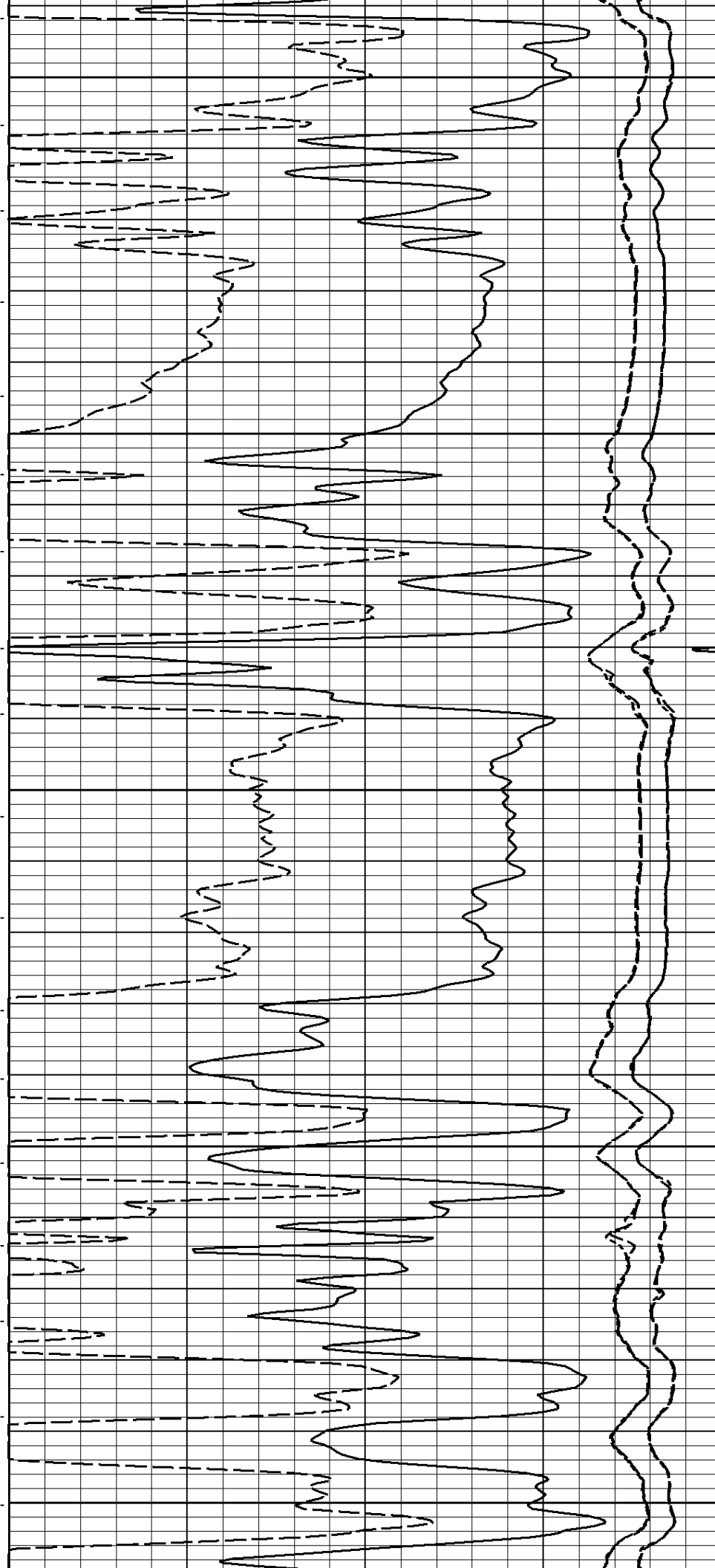


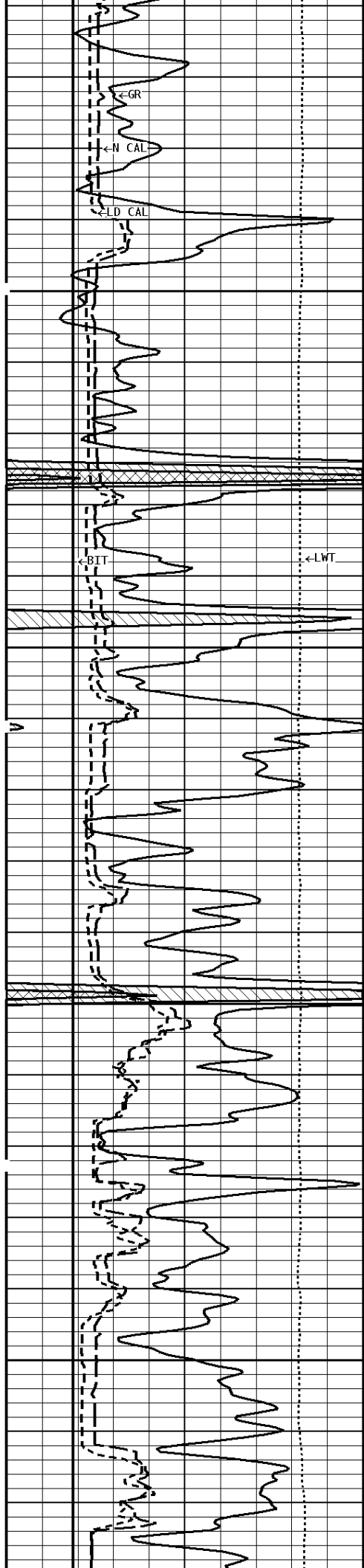


1100

1200

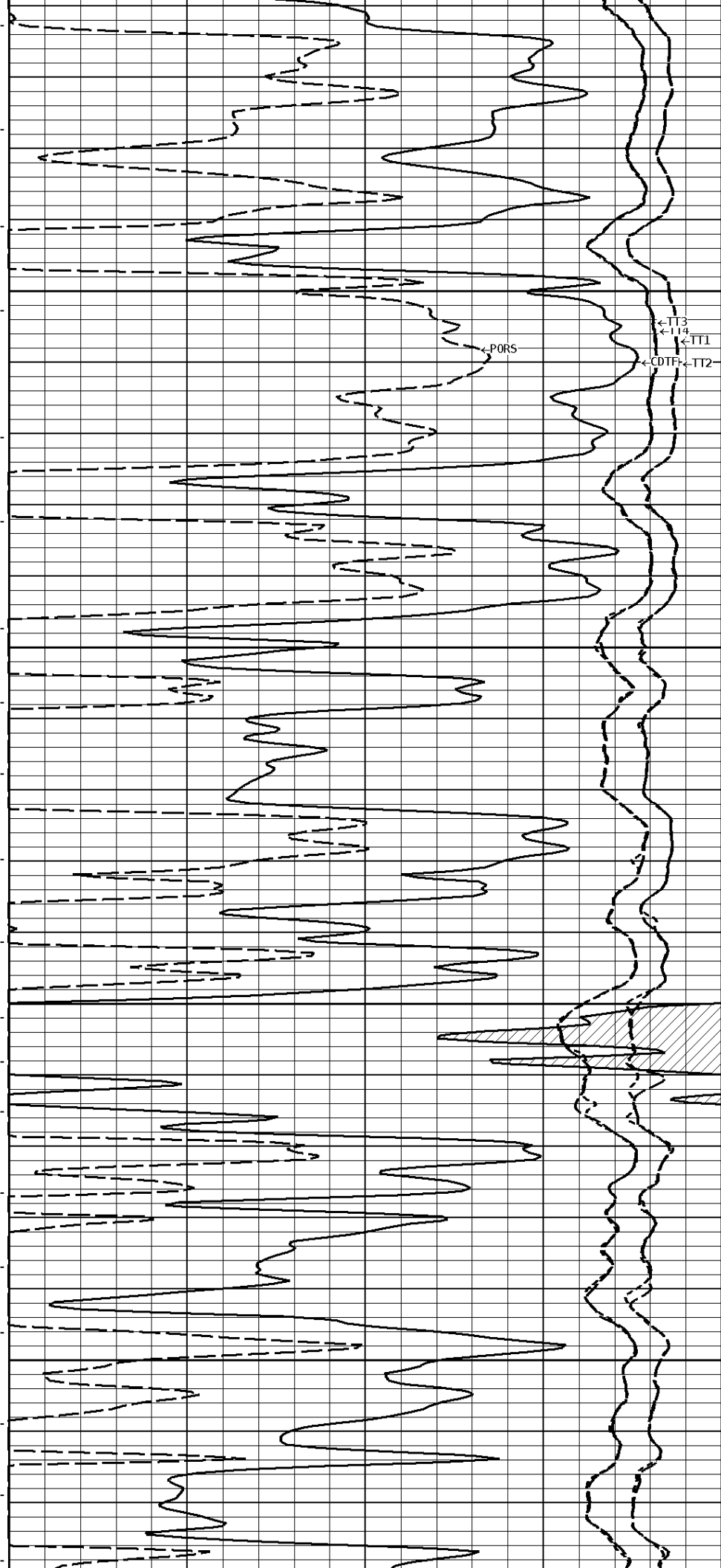
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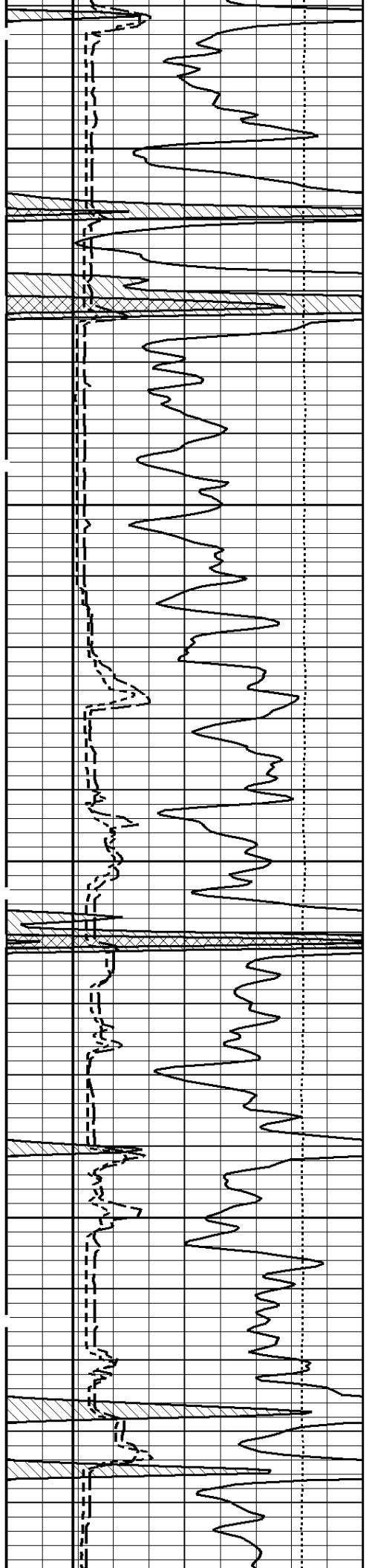




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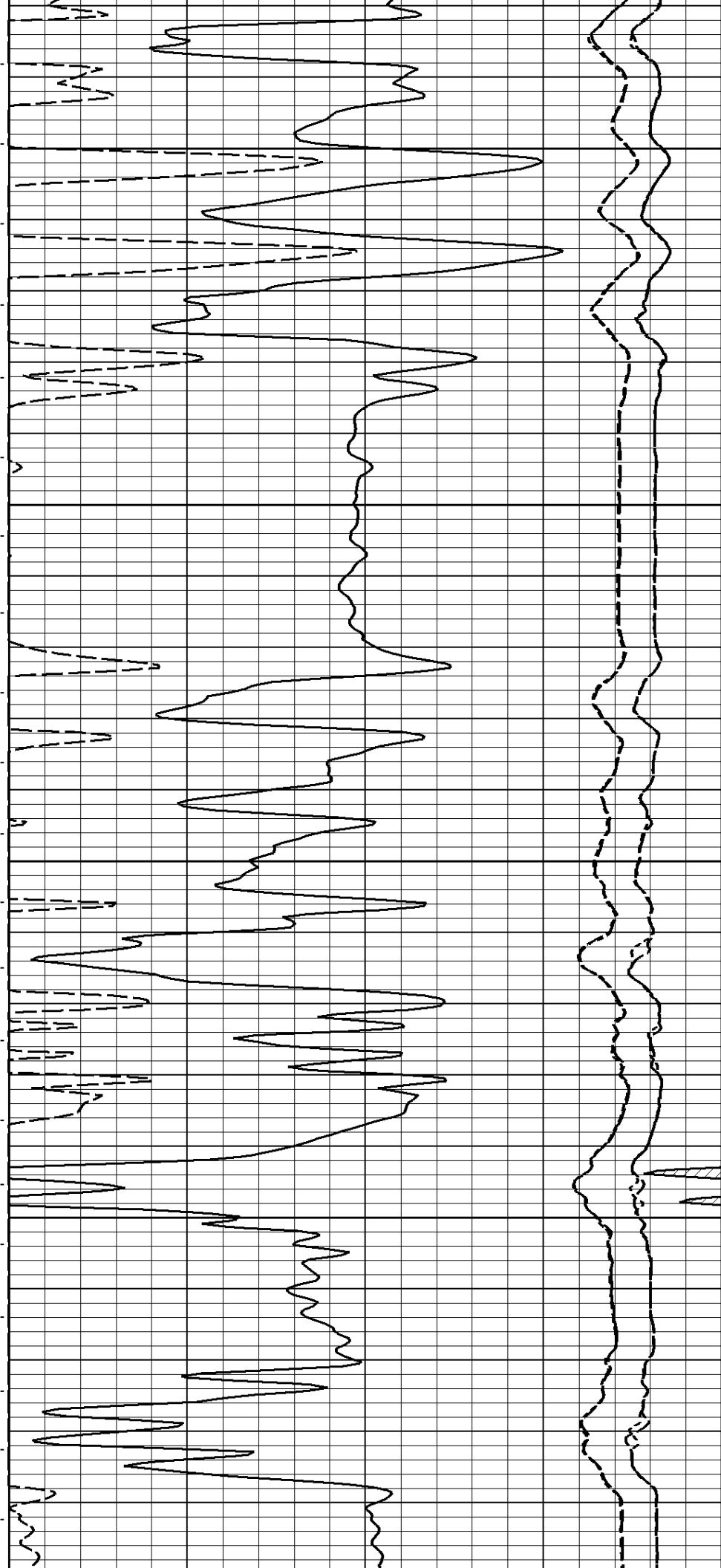
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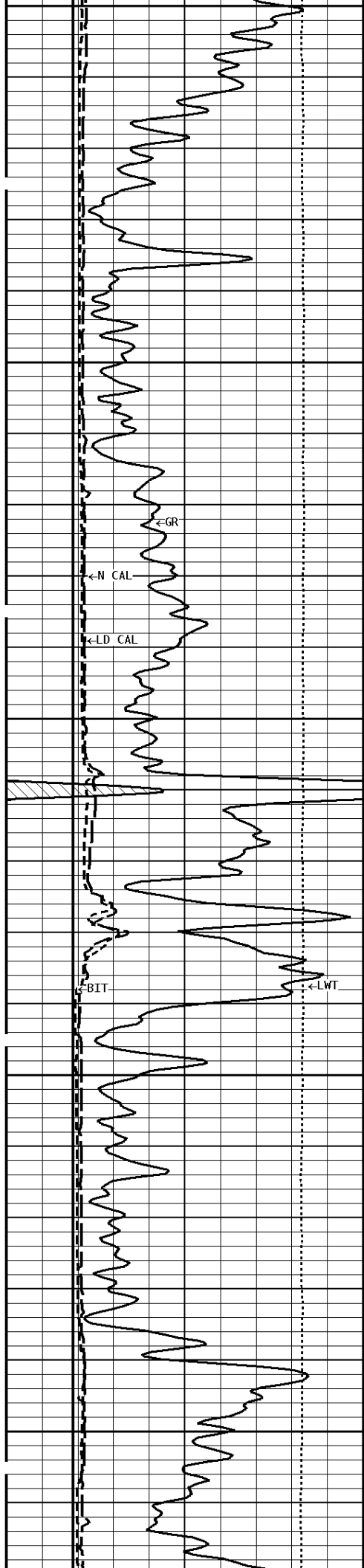




1600

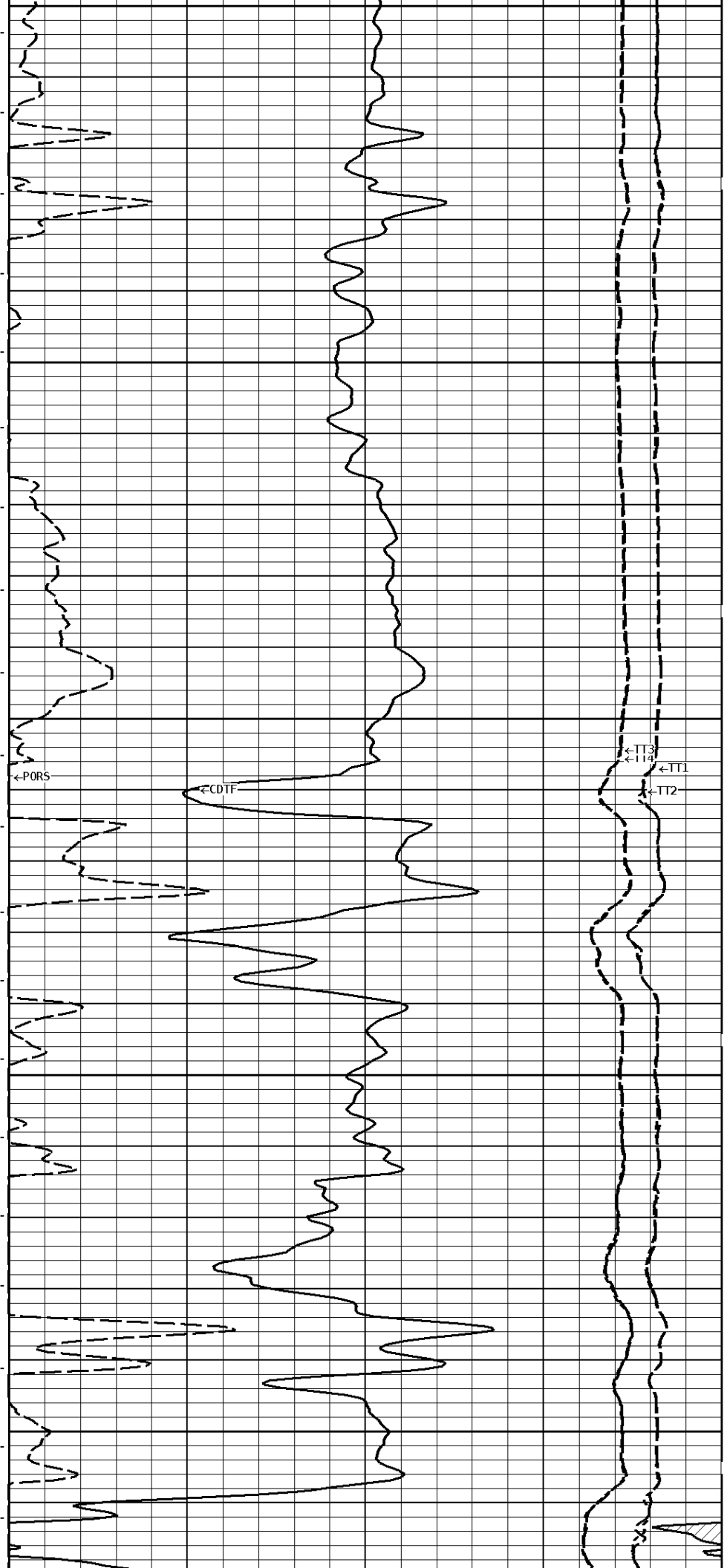
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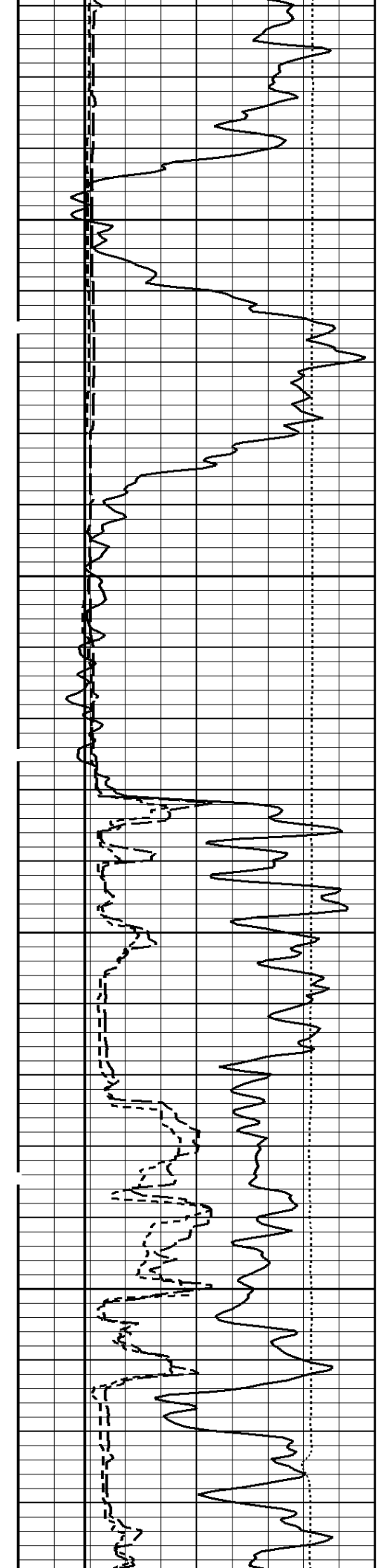




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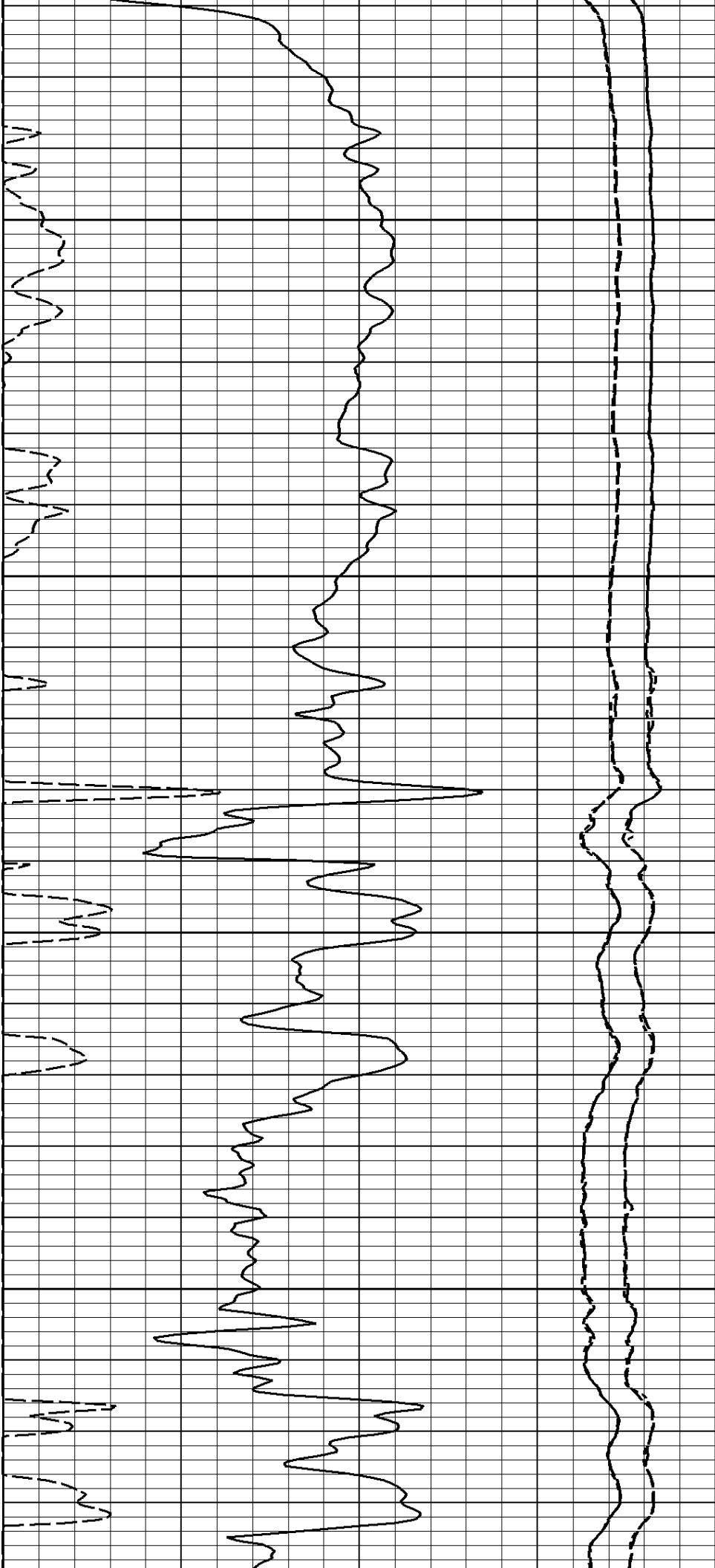
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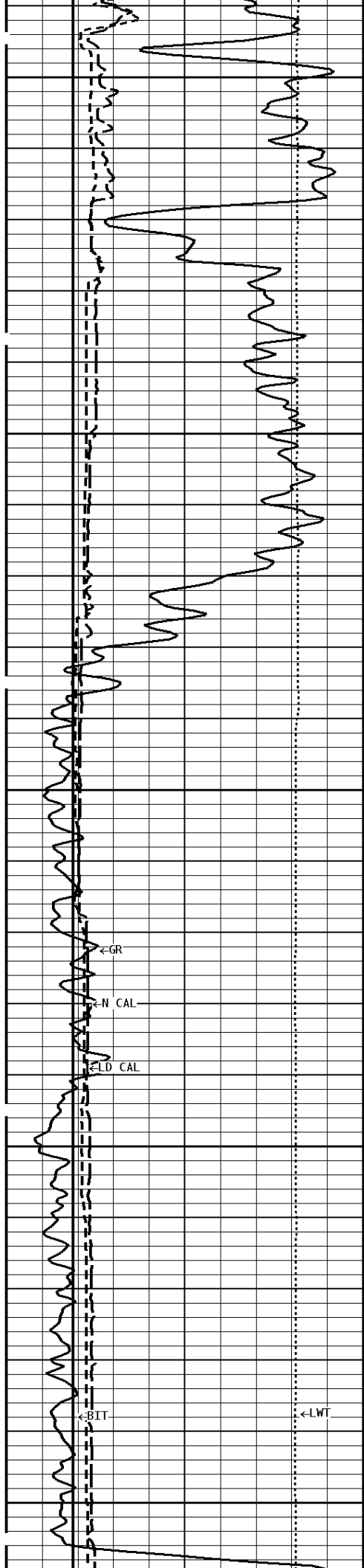




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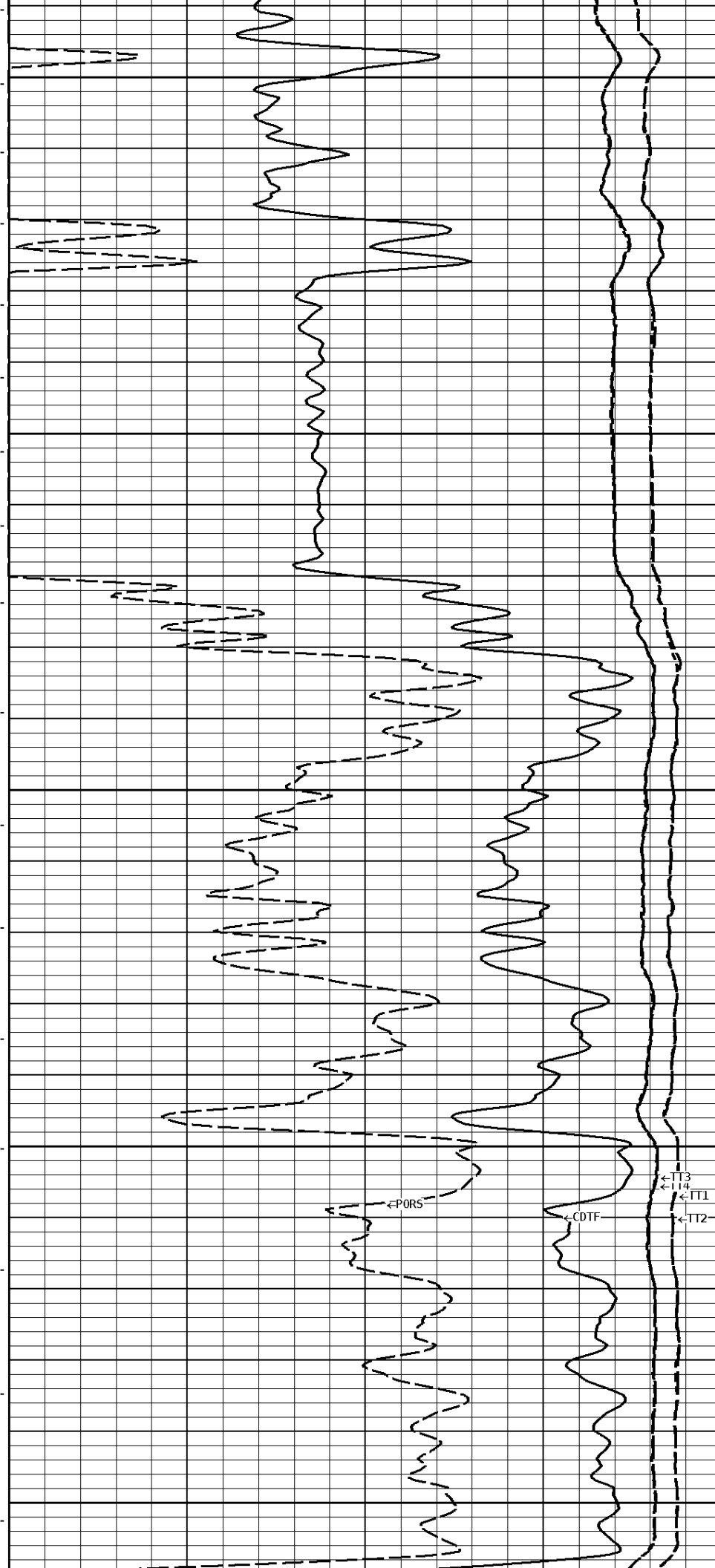


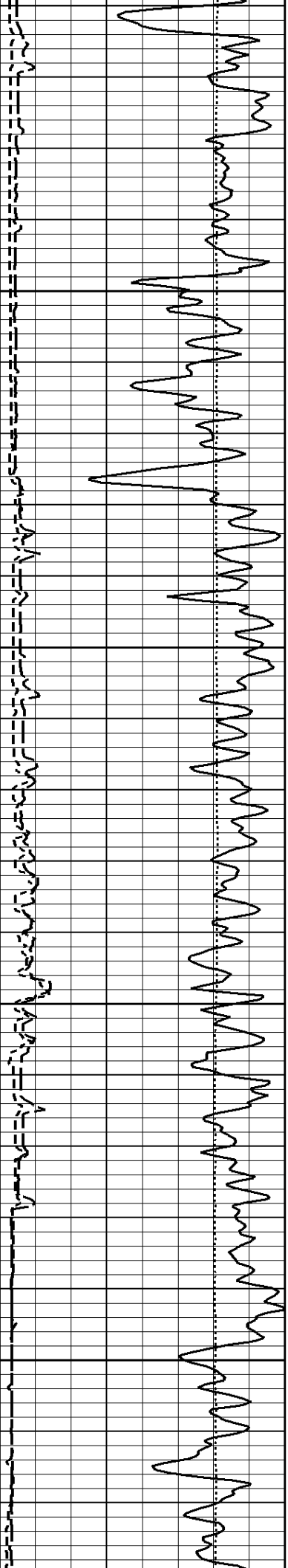


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2300

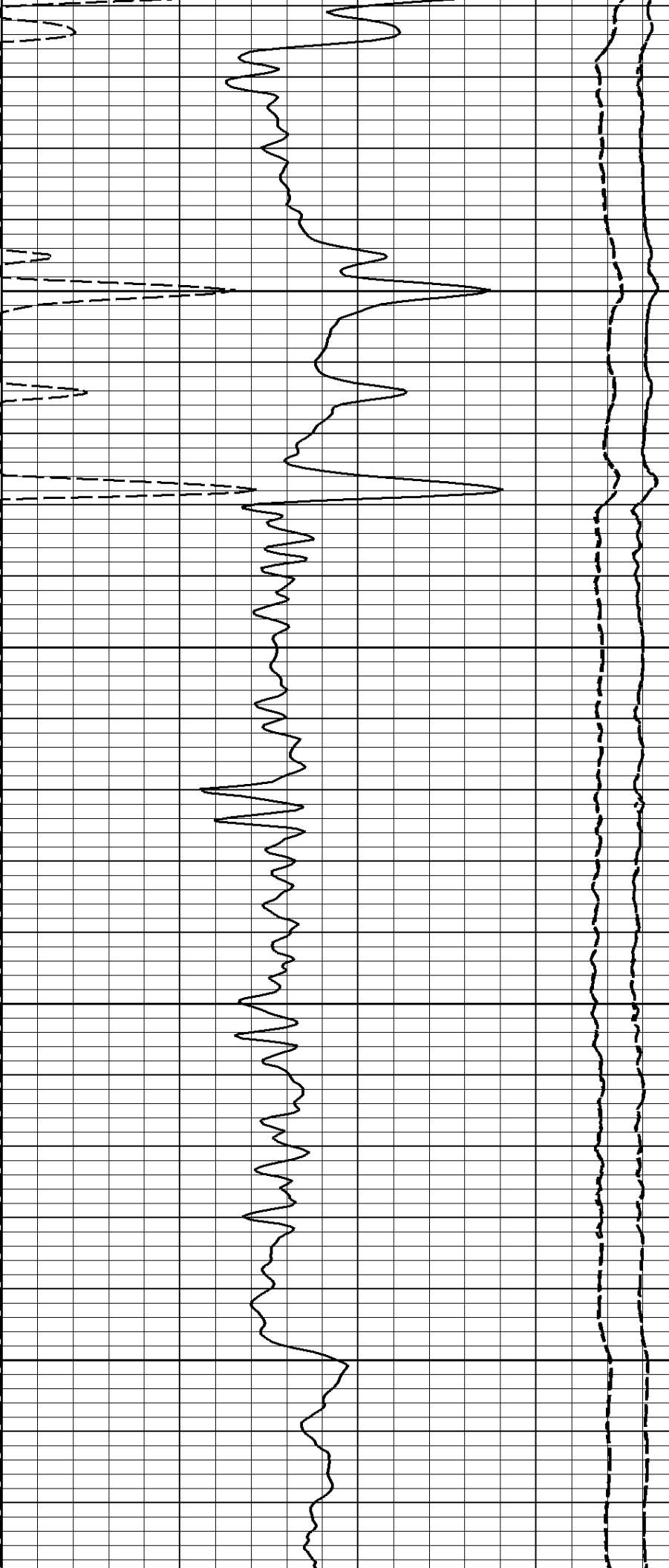
2400

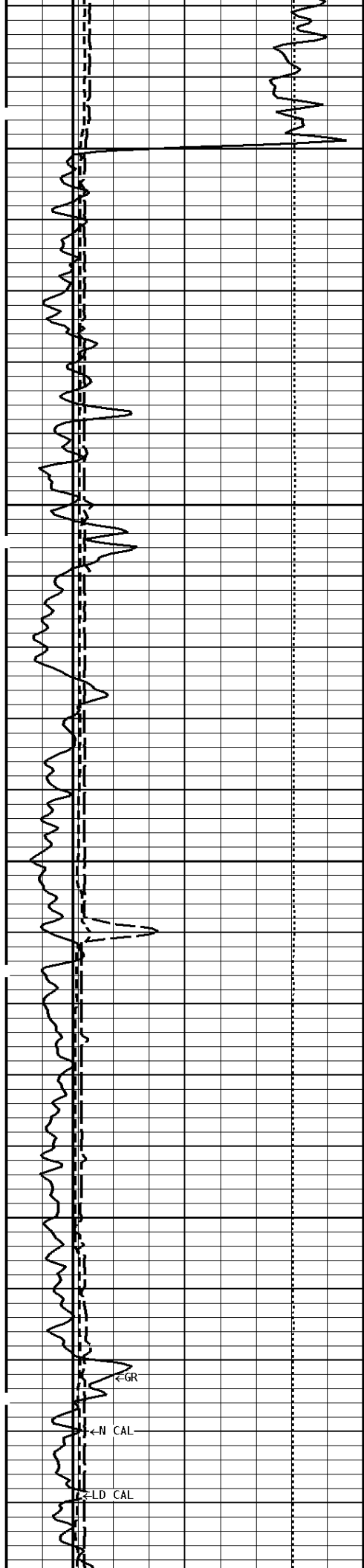




2500

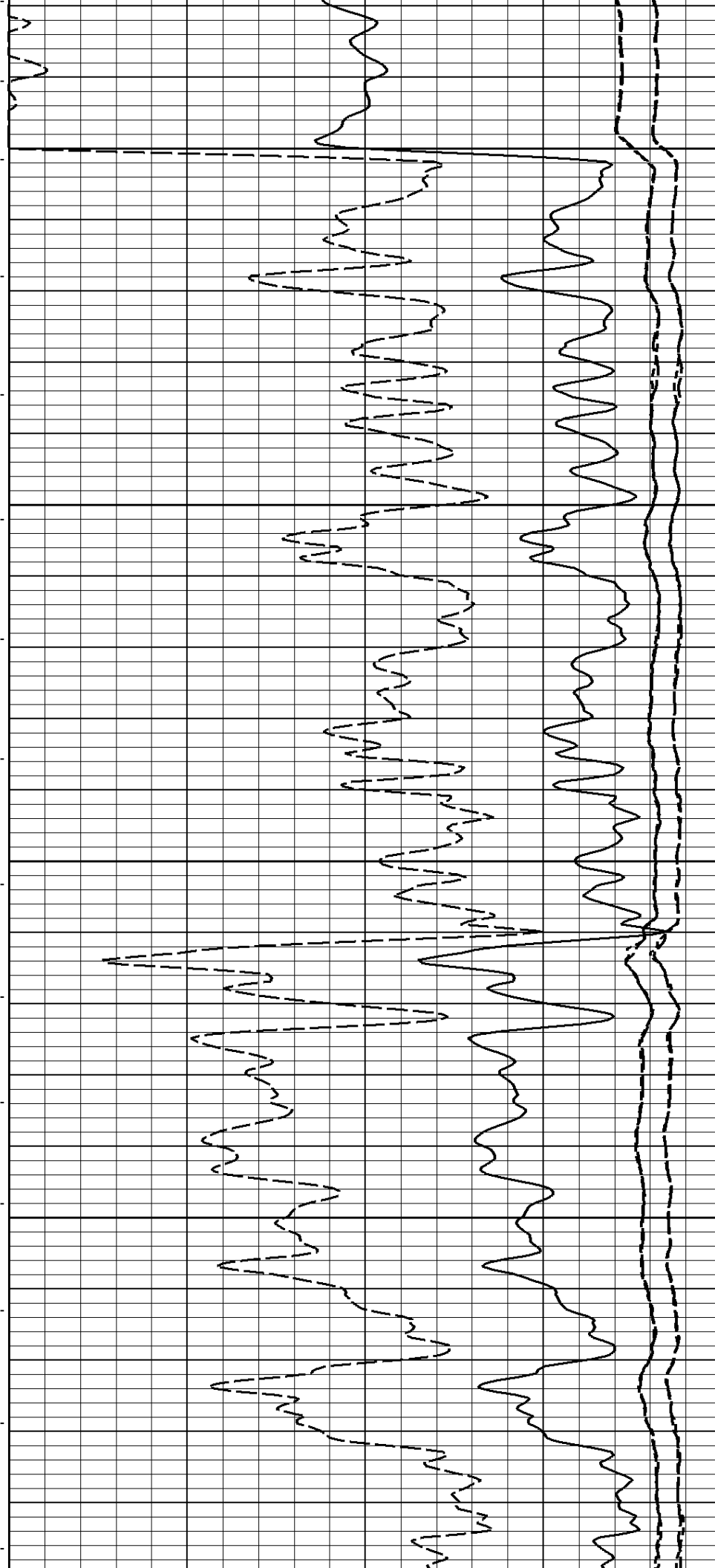
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2700

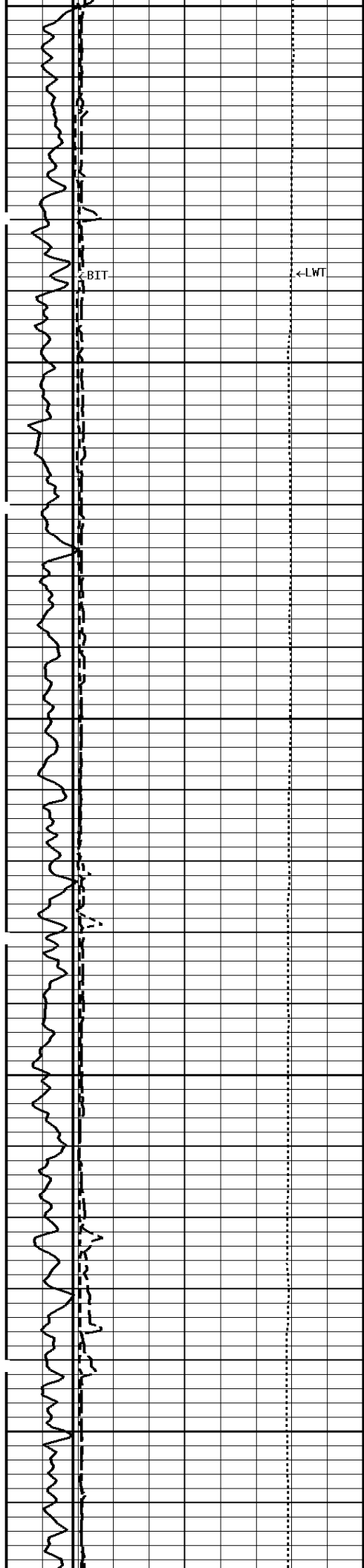
2800



←GR

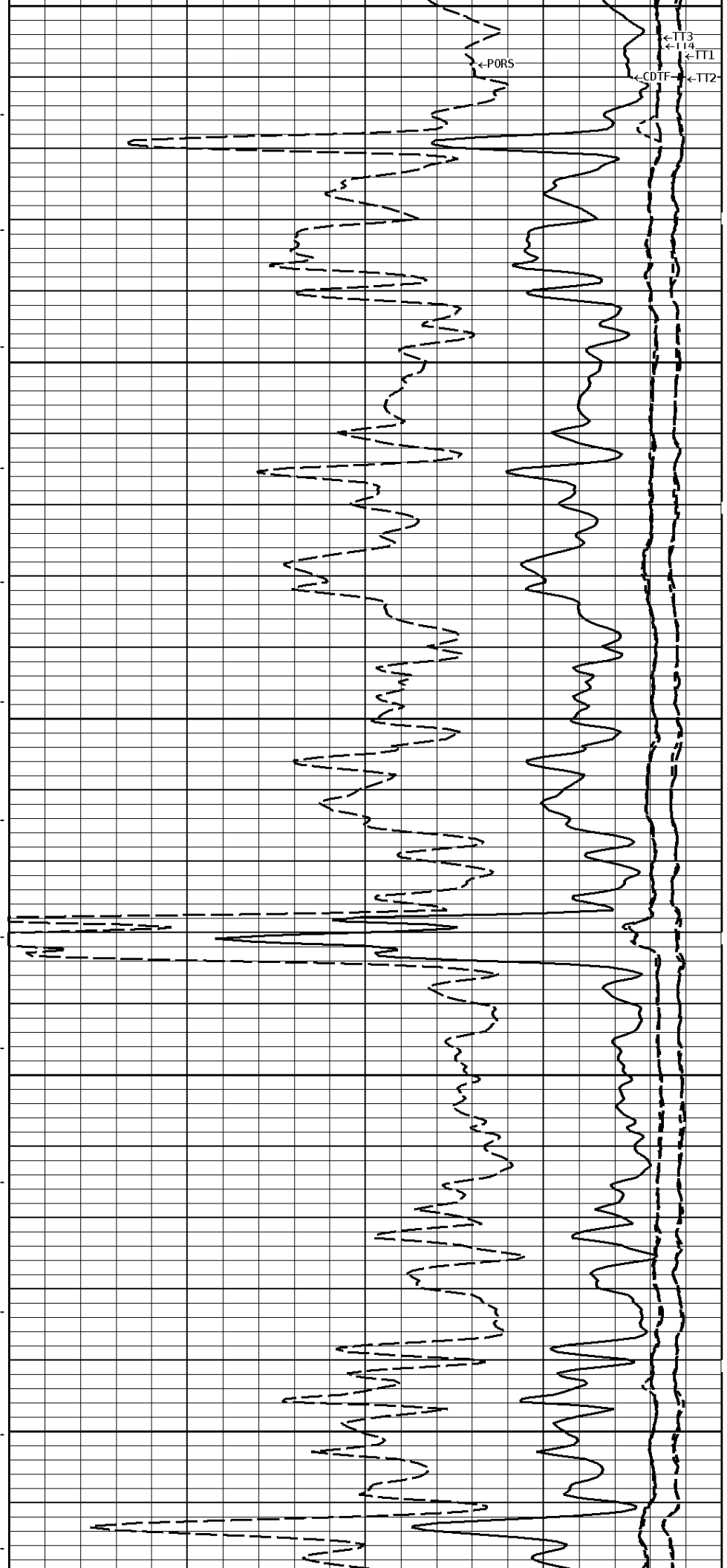
←N CAL

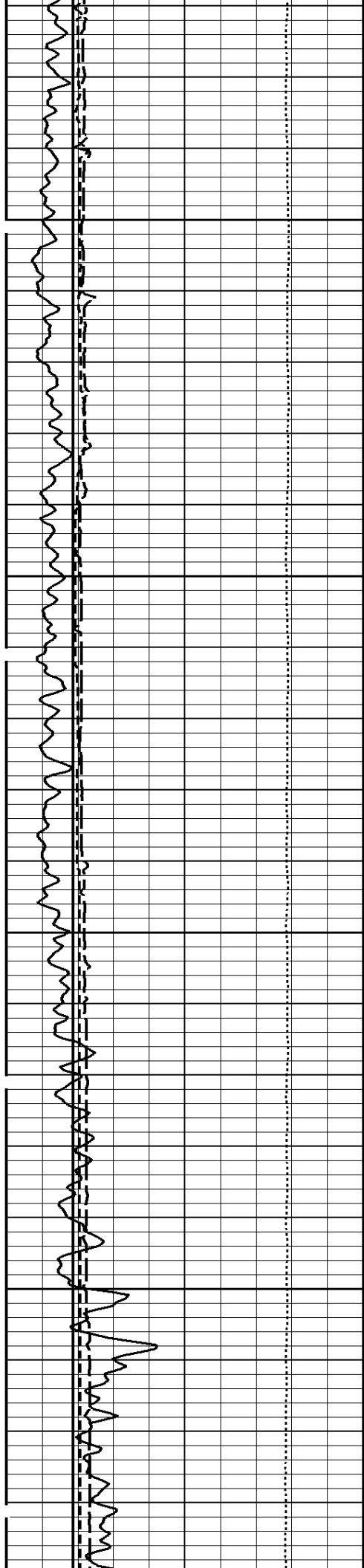
←LD CAL



2900

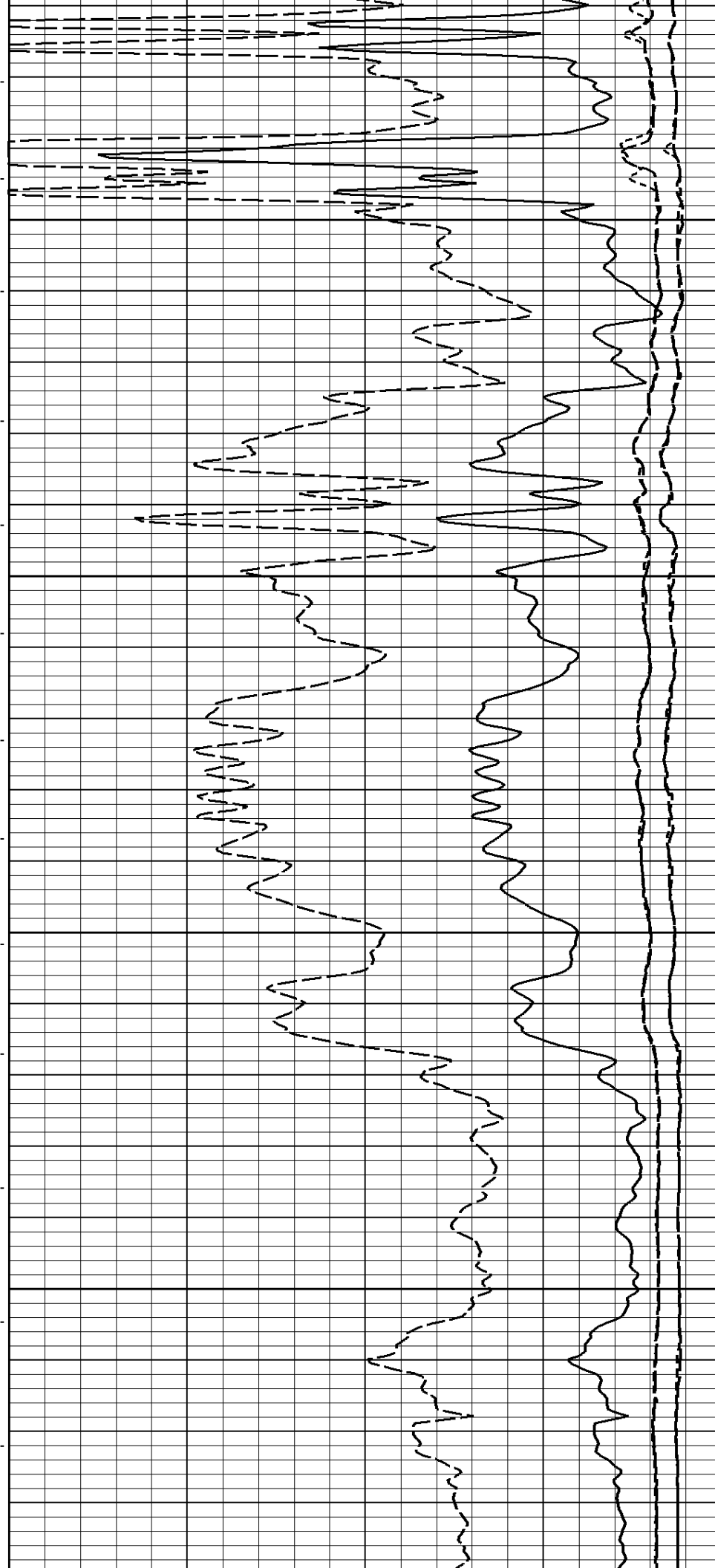
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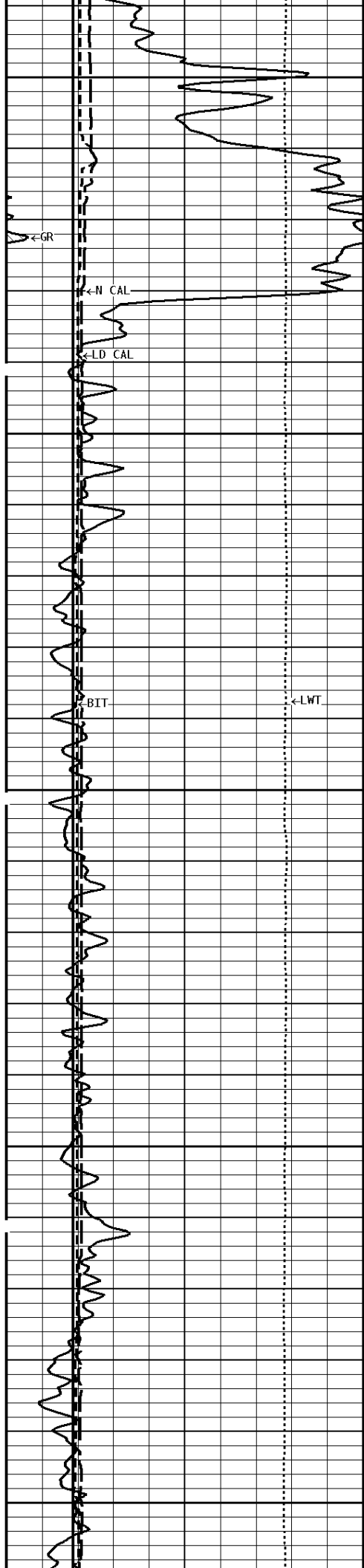




3100

3200

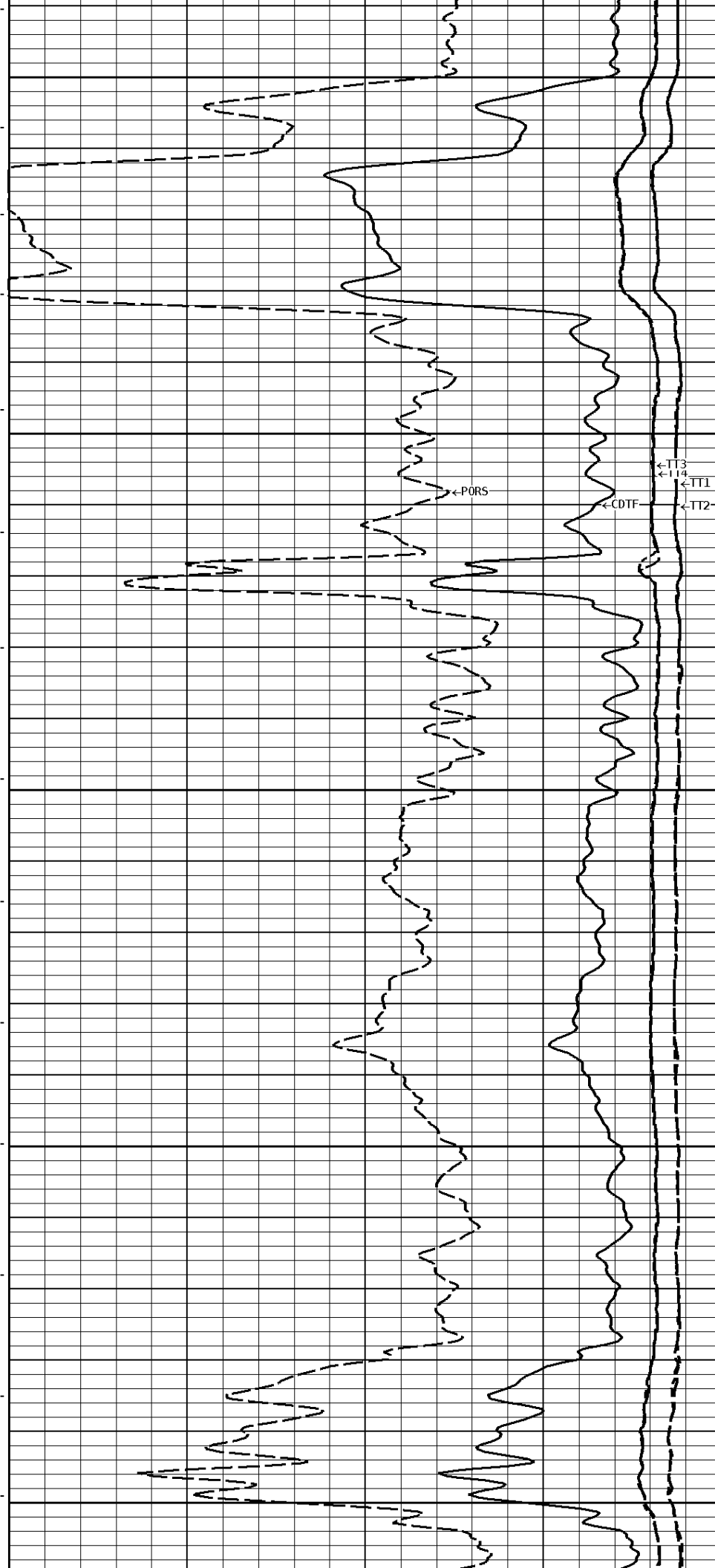




3300

3400

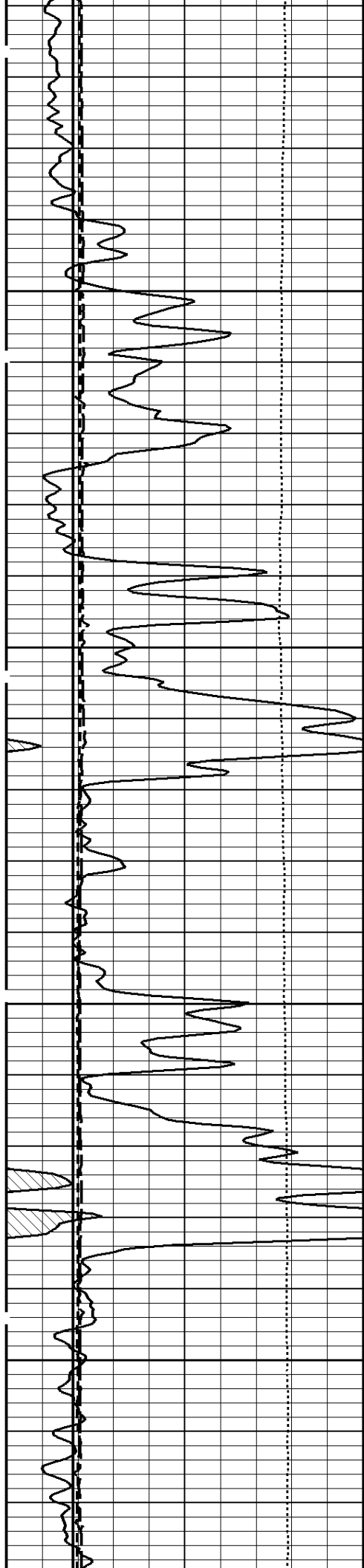
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←TT3  
←TT1  
←TT2

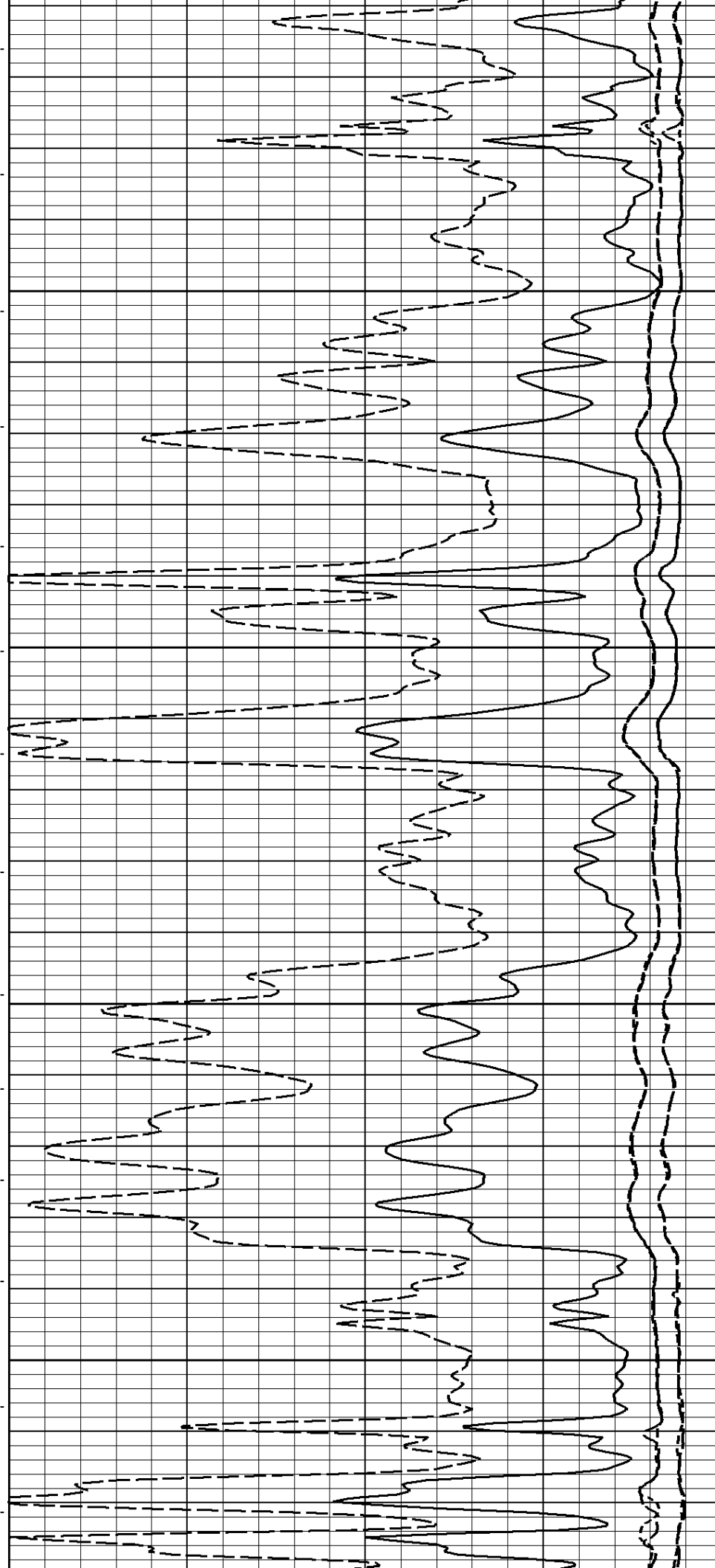
←PORS

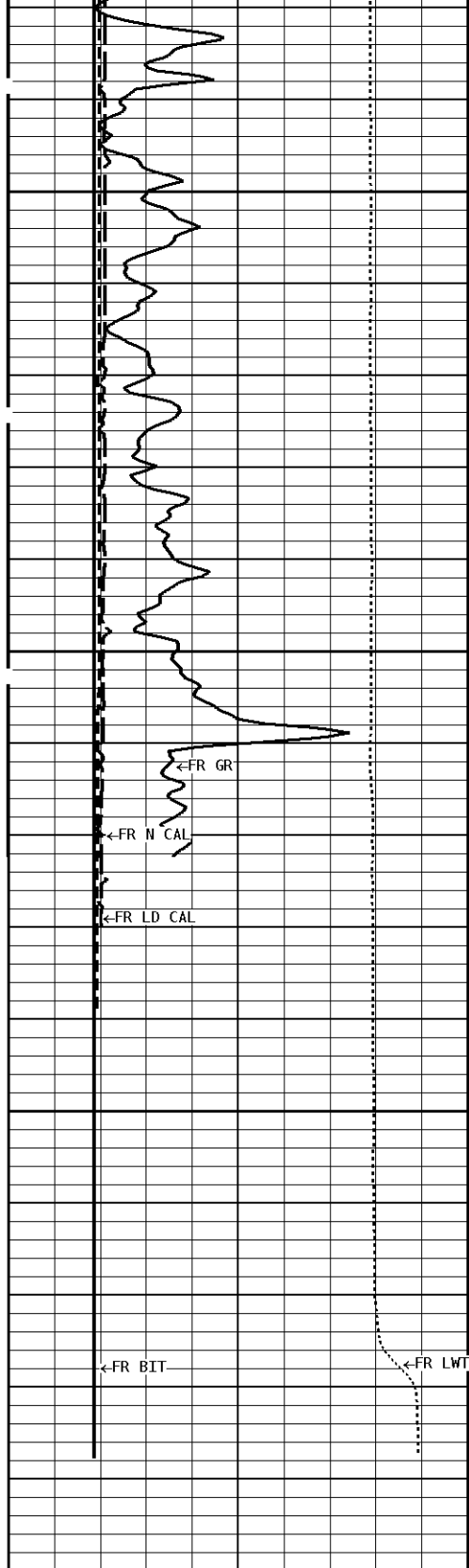
←CDTF



3600

3700



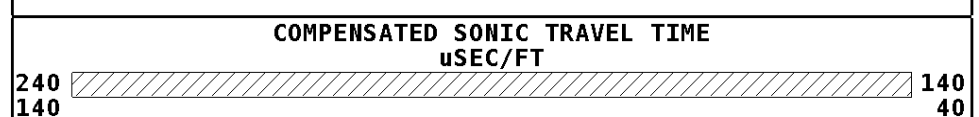
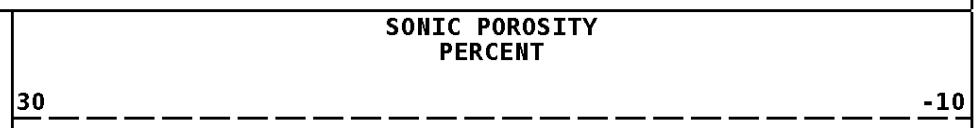
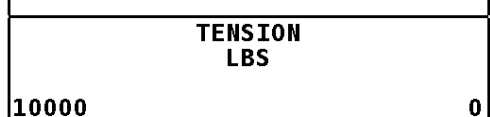
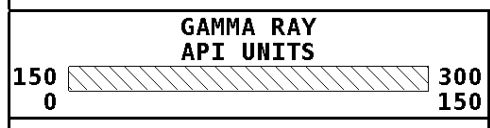
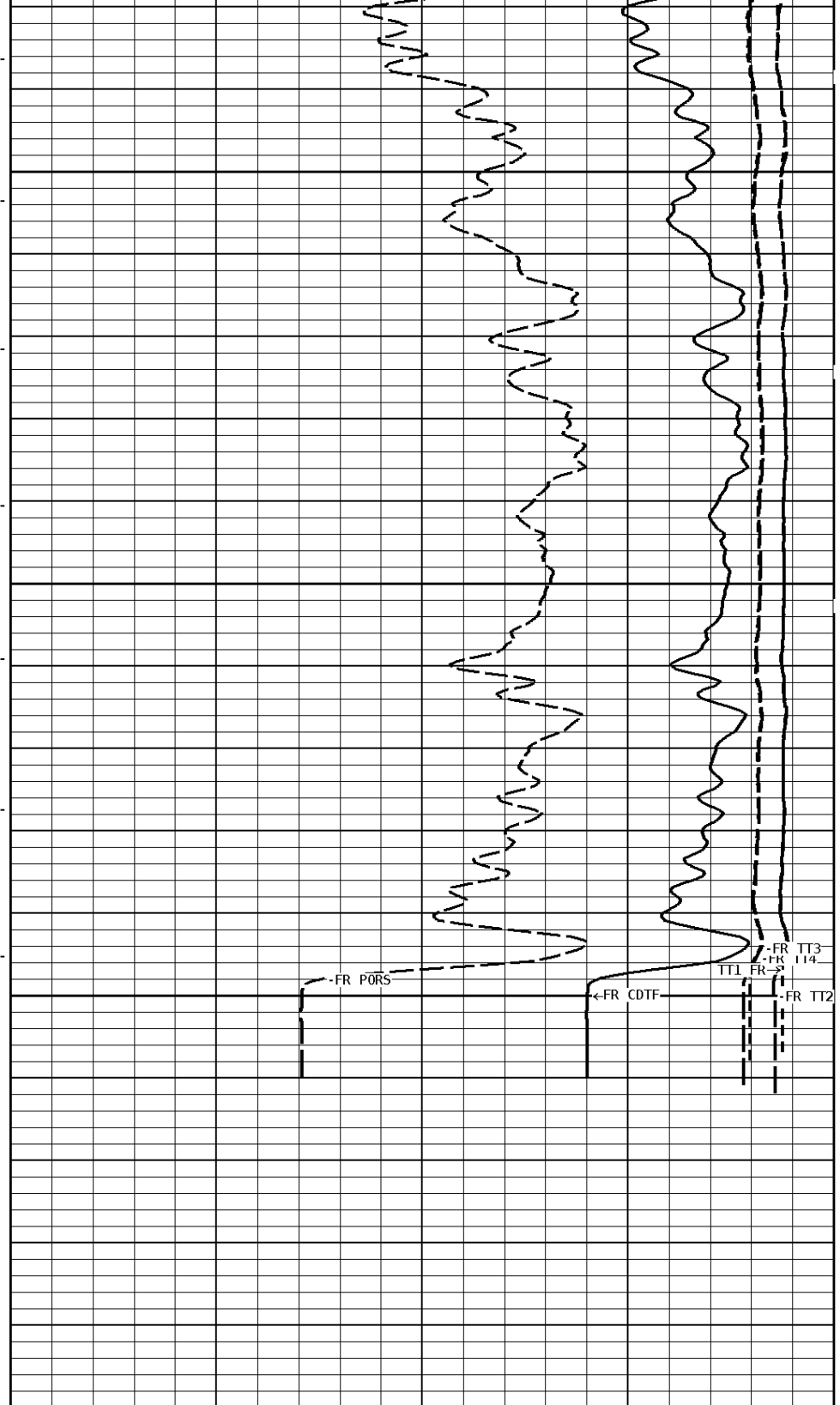


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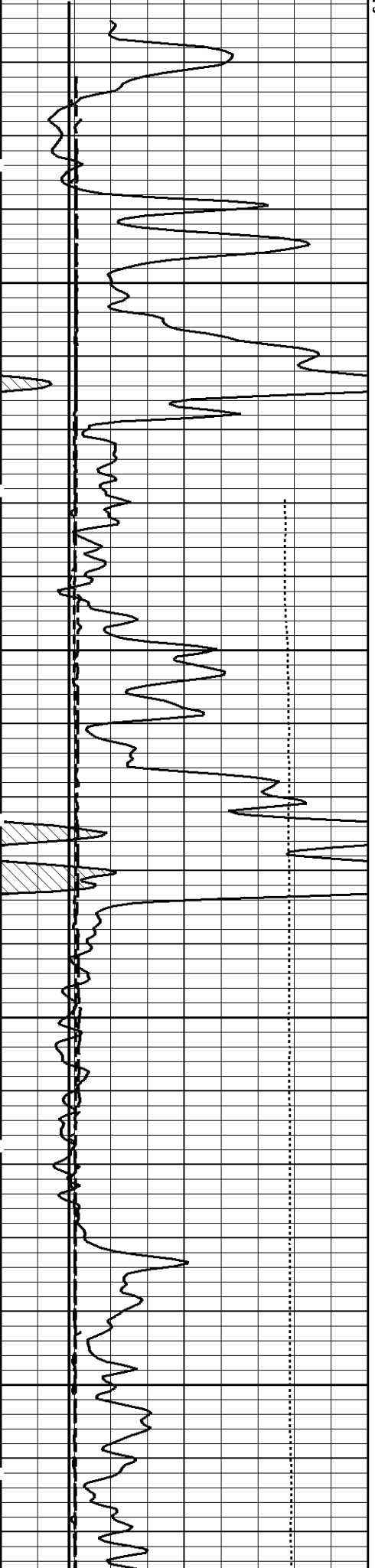
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3878

1:240 MAIN SECTION

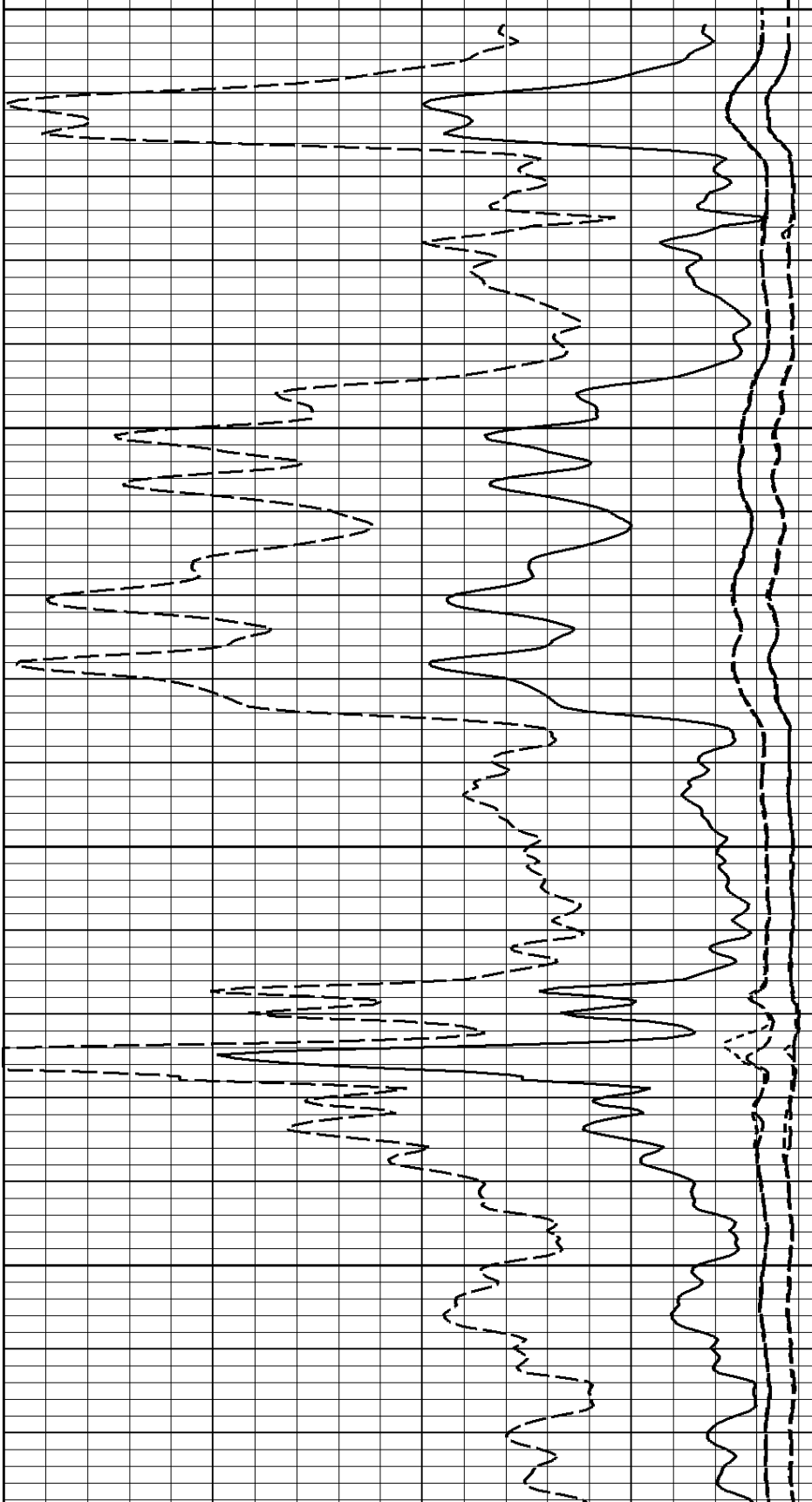


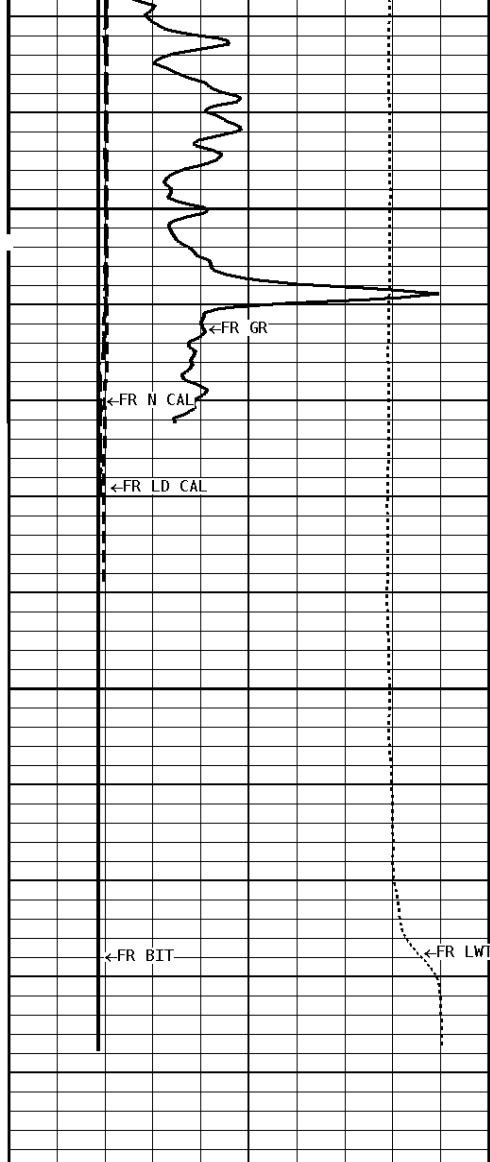




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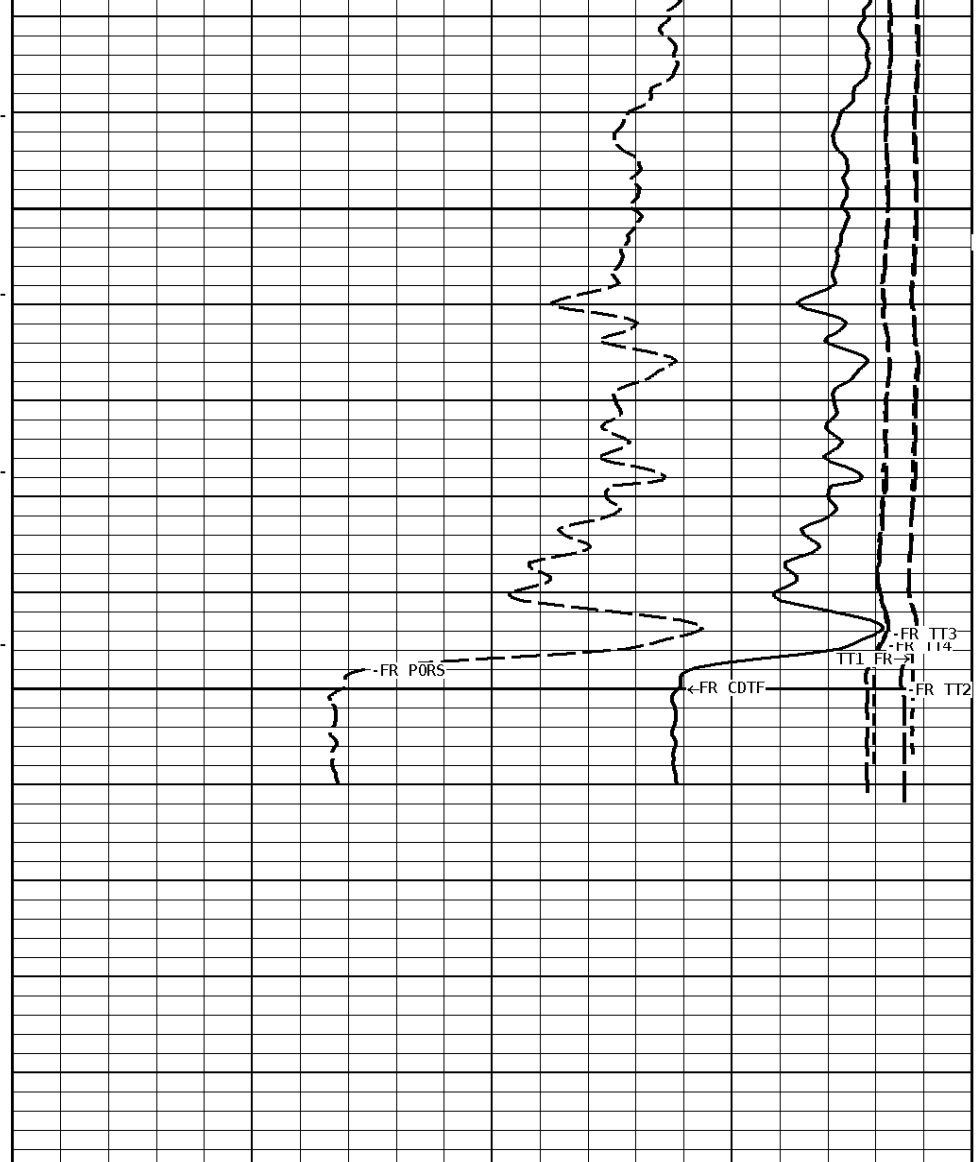




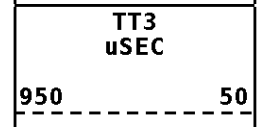
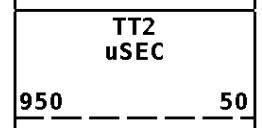
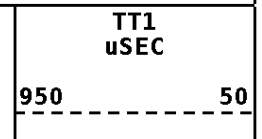
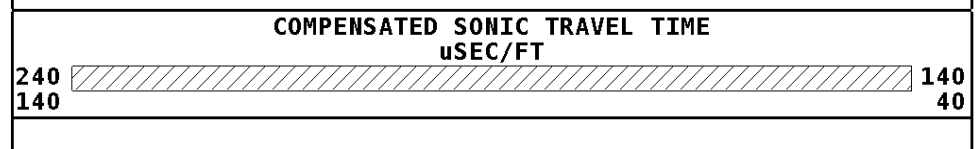
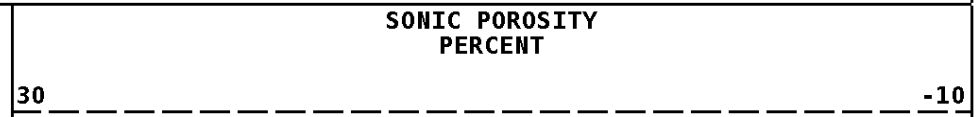
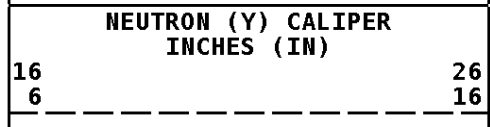
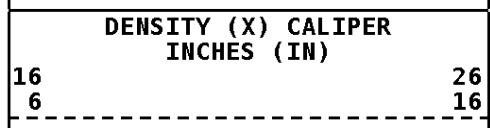
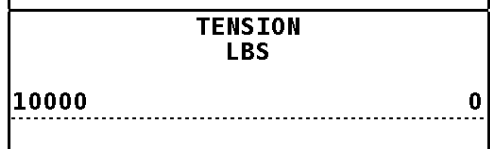
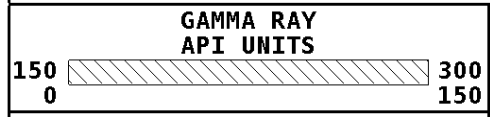
3800

3878

File #1.1.3



**1:240 REPEAT SECTION**



\* Borehole Zone Factors \*

<b>Zone 1 99999.0 to 0.0 Feet</b>		
Matrix Transit Time _____	47.5	us/ft
Fluid Transit Time _____	189.0	us/ft

\* Calibration Summary \*

<b>Shop Calibration</b>					
<b>GRT-B</b>					
Performed : 27-JUN-2013			Time : 09:38		
Sensor Suite : GR-GR5			ID : GRT-BB-117		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig		
	53	363	175	GRAPI	
		CPS			
<b>Shop Calibration</b>					
<b>CST-AD</b>					
Performed : 30-MAY-2013			Time : 15:49		
Sensor Suite : SON-ANA			ID : CST-AB-012		
	Measured		Transit Time		Units
T/R Pair			Calibrated		
T1R1	208.5		208.5	uS	
T2R2	208.5		208.5	uS	
T1R2	322.5		322.5	uS	
T2R1	322.5		322.5	uS	
			Amplitude		
T/R Pair	Measured		Calibrated		Units
T1R1	90.00		90.00		mV
T2R2	90.00		90.00		mV
T1R2	78.00		78.00		mV
T2R1	78.00		78.00		mV