

Tucker

ENERGY SERVICES

BOREHOLE COMPENSATED

SONIC LOG

Company VICTORY OPERATING, INC. Well ILS LAND #1-21 Field County PAWNEE State KANSAS Country USA API No. 15-145-21687-0000		File No : TUL-58694 Company : VICTORY OPERATING, INC. Well : ILS LAND #1-21 Field : County : PAWNEE State : KANSAS Country : USA API No : 15-145-21687-0000	
Location : 2148' FNL & 1561' FWL NW SW SE NW		LSD : Sect : 21 Twp : 22S Rge : 16W	
Permanent Datum:	GL	Elevations:	Services:
Drilling Measured From:	KB	KB 2051.00	CNT
Log Measured From:	KB	DF 2050.00	CST
Above Permanent Datum:	11.00 Ft	GL 2040.00	LDT
Date	2012-09-18		MLT
Run Number	1		
Depth--Driller	4165.0	Ft	
Depth--Logger	4162.0	Ft	
First Reading	4139.0	Ft	
Last Reading	1003.0	Ft	
Casing--Driller	1003.0	Ft	
Casing--Logger	1003.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	CHEM-GEL		
Density	9.3	LBS/GAL	
Fluid Loss	10.0	CC	
PH/Viscosity	8.5	60.0 SEC	
Sample Source	MEASURED		
RMF@Measured Temp.	1.500	@ 70 F	
RMF@Measured Temp	1.200	@ 70 F	
RMC@Measured Temp.	1.800	@ 70 F	
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	0.930	@ 118 F	
Time Circulation Stopped	2012-09-17 22:56		
Max Recorded Temp.	118	F	
Equipment/Base	TRK 127	TULSA	
Recorded By	SHELDON TYLER		
Witnessed By	K. TALBOTT		

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)
7.875	4165.00	8.625	32.00	1003.00

Run Number	1		
Date	2012-09-18		
Date/Time On Bottom	2012-09-18 01:56		
Depth to Fluid	0.0 Ft		
Salinity	0.000 PPM		
RMF@BHT	0.740 @ 118 F		
RMC@BHT	1.120 @ 118 F		

Run Number 1

Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST

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.

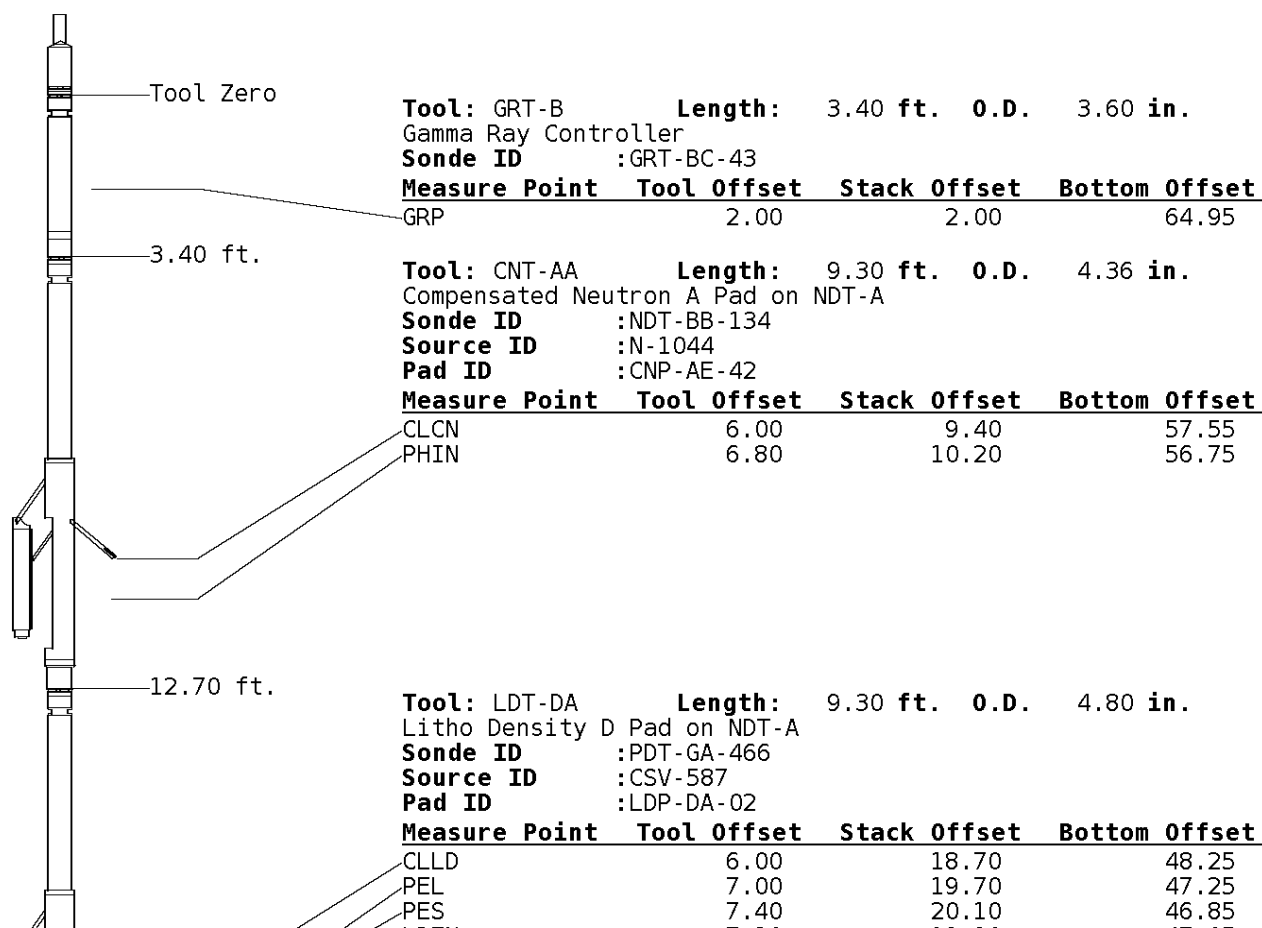
GRT: GRP.
 CNT: PHIN, CLCNIN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 MLT: NOR_R, INV_R, MSCLPIN.
 CST: PORS, DDCDTF, TT1PF, TT3PF, ITT.
 PIT: ILD, ILM, SPU, SFLAEC

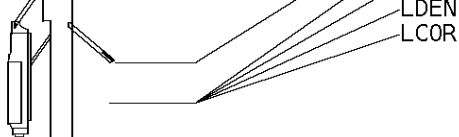
OPERATORS:

J.T
 A.DJAH
 B.SMITH

Tool String Schematic

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



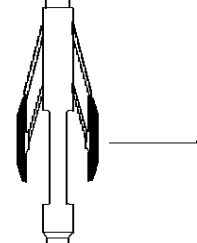


7.20 19.90 47.05

22.00 ft.

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
Micro Spherically Focused (IC)
Sonde ID :MST-DA-28

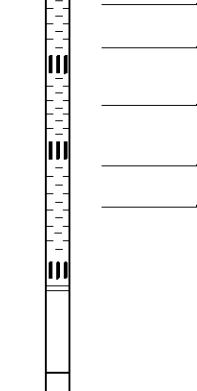
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	37.35
MSCLP	7.60	29.60	37.35
INV	7.60	29.60	37.35
NOR	7.60	29.60	37.35



31.66 ft.

Tool: CST-AD **Length:** 13.80 ft. **O.D.** 3.60 in.
Open Hole Sonic
Sonde ID :CST-AB-38

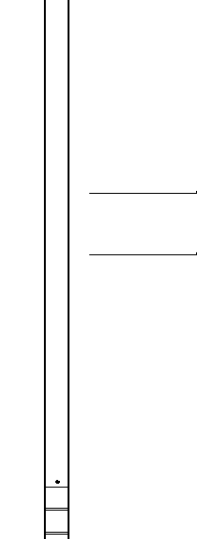
Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	36.46	30.49
TT3	5.80	37.46	29.49
CDT	7.30	38.96	27.99
TT4	8.80	40.46	26.49
TT2	9.80	41.46	25.49



45.46 ft.

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



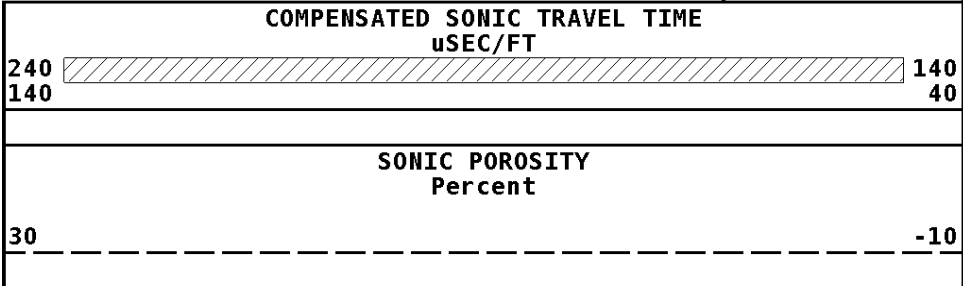
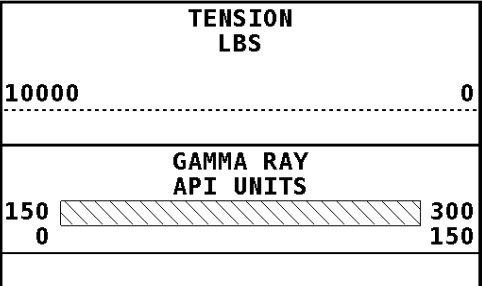


Well File: VICTORY ILSLAND 1-21 SEP18 QUINT
Segment: V1.D1.S5 Reprocess of MAIN
Reference: 0

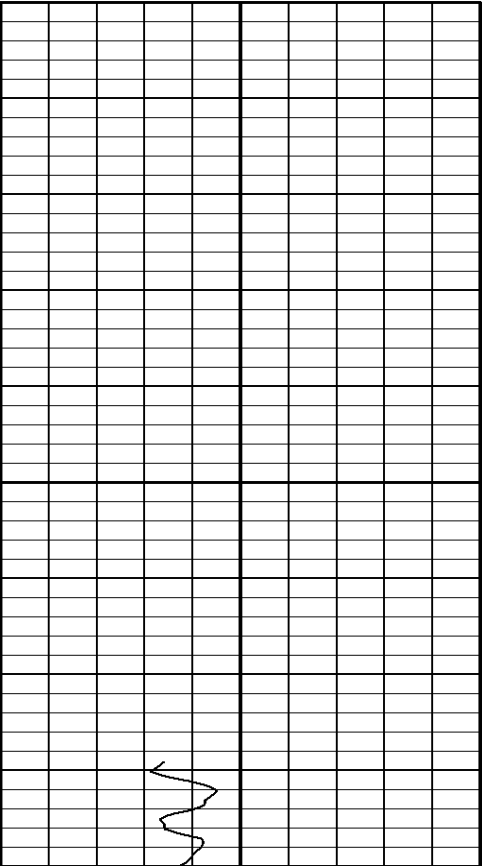
Scale: 1:240
Acquired: 2012-09/18 04:04 3.2.0-11172
Processed: 2012-09/18 05:01 3.2.0-11172

TT3 uSEC	
950	50

TT1 uSEC	
950	50

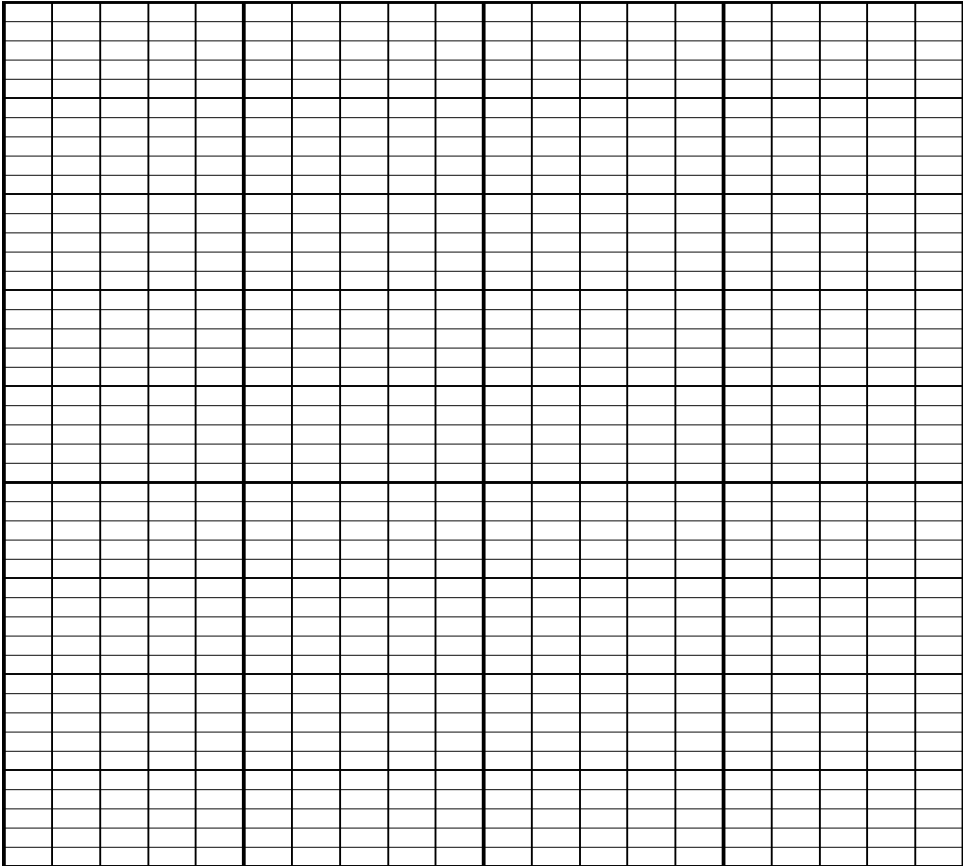


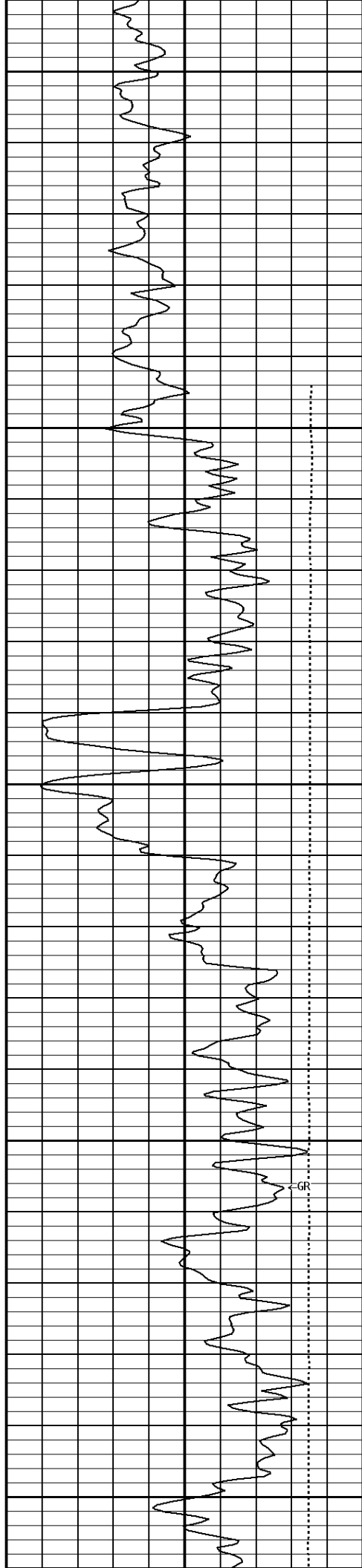
1:240 MAIN SECTION



File #1.1.5

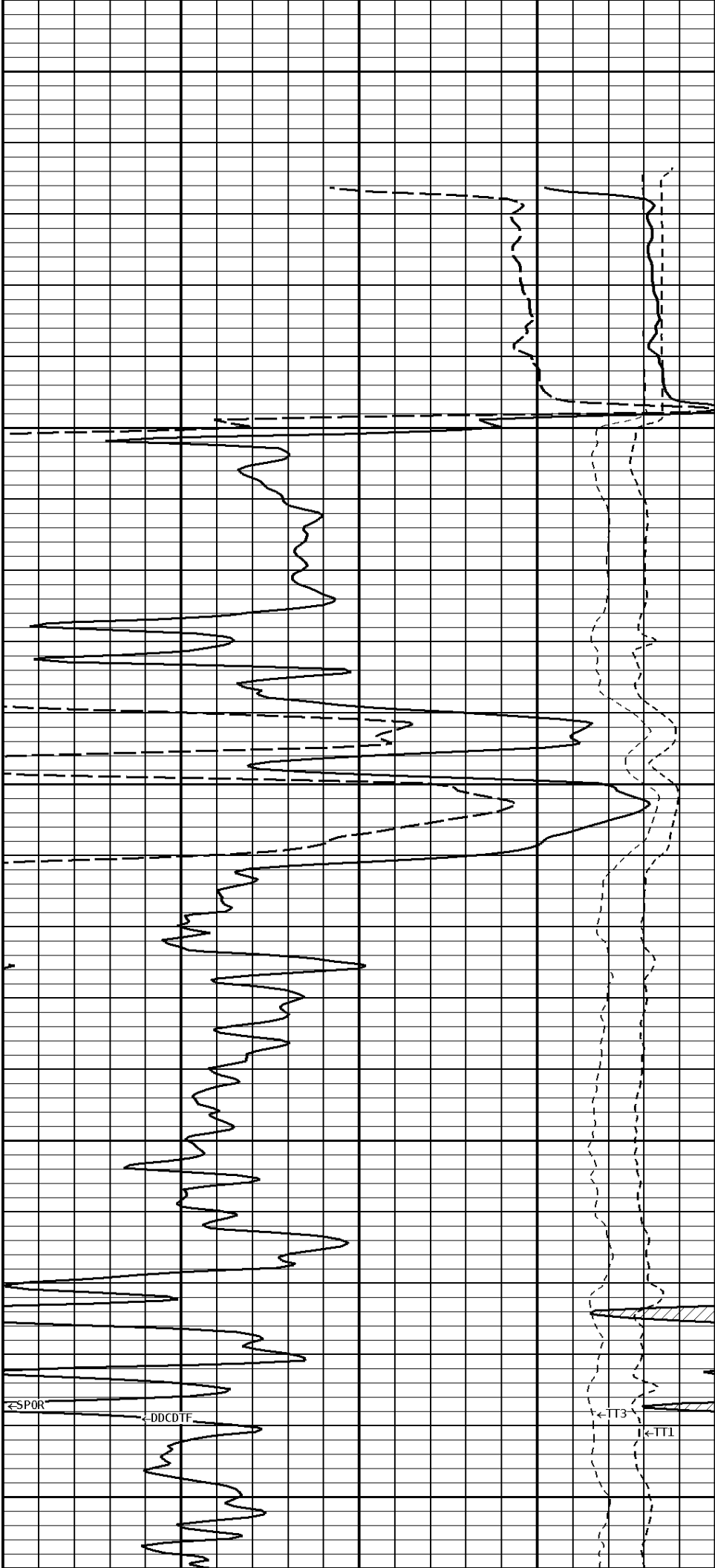
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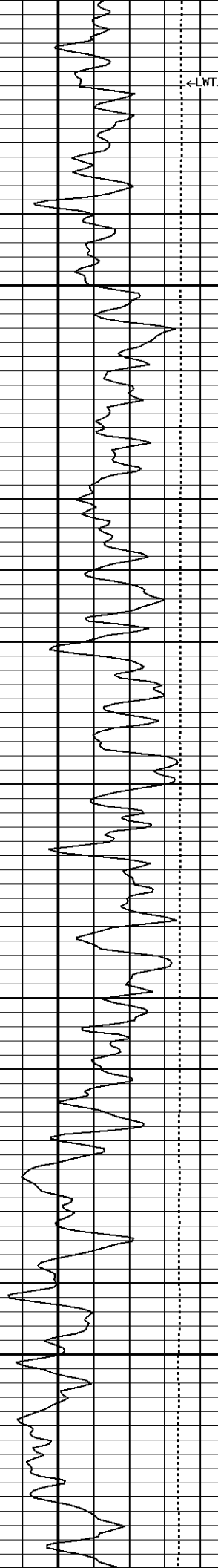




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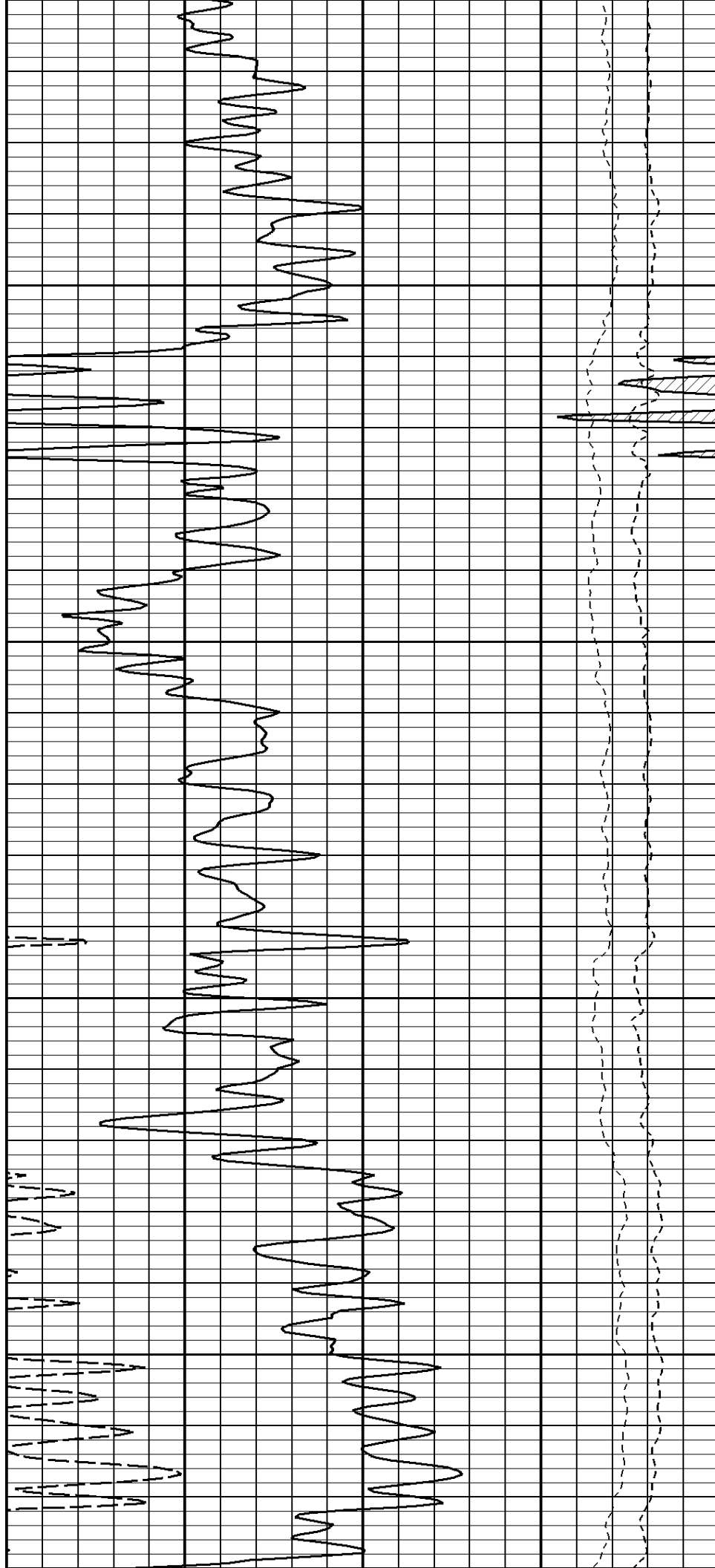
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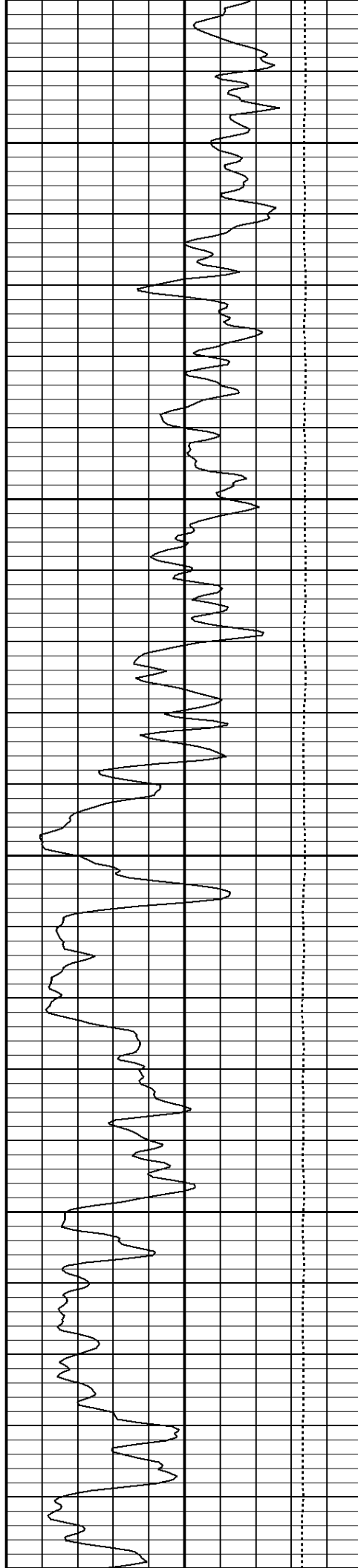




1200

1300

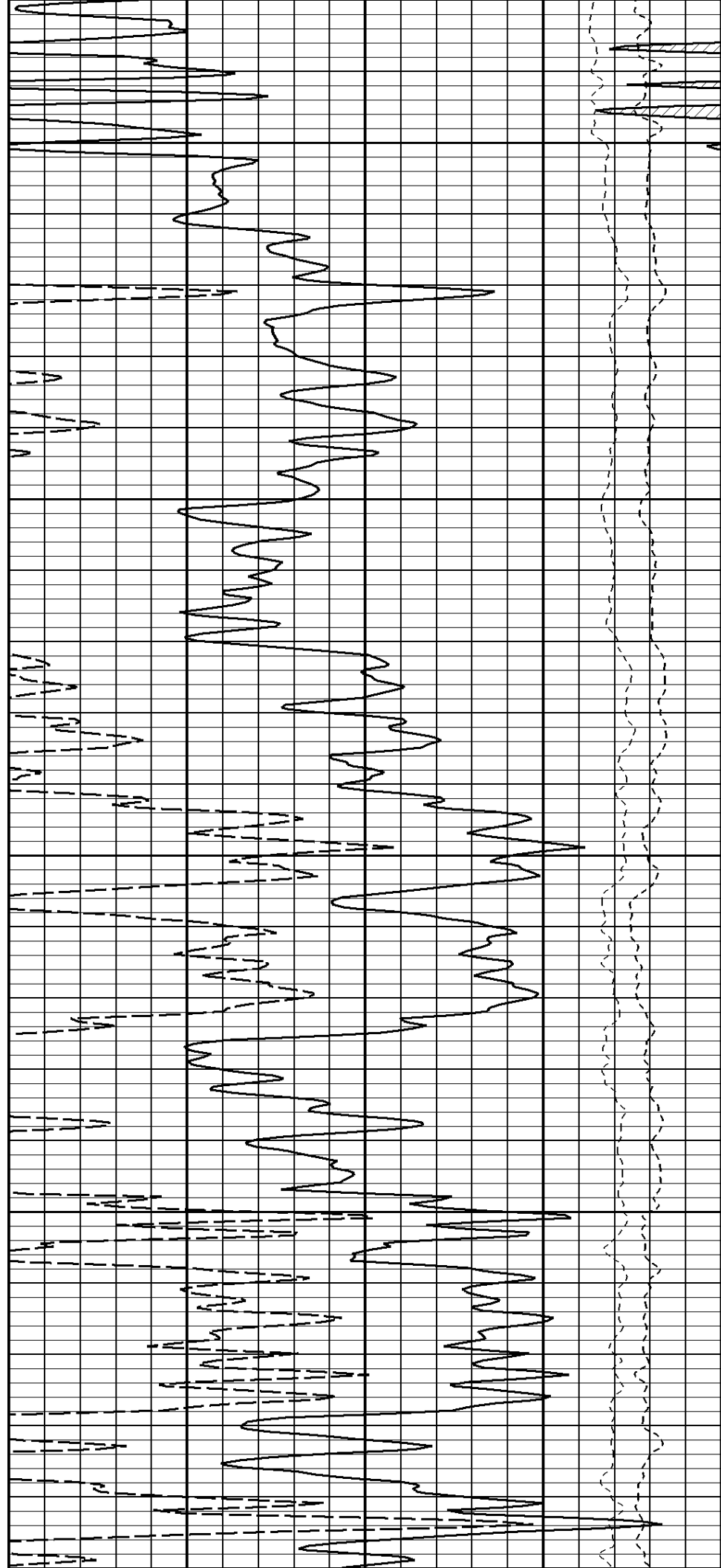


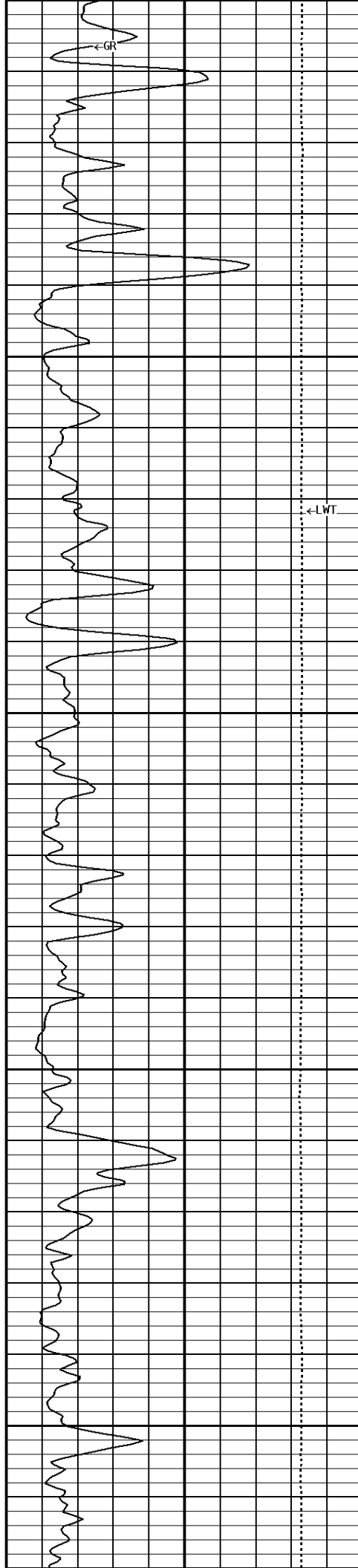


1400

1500

1600

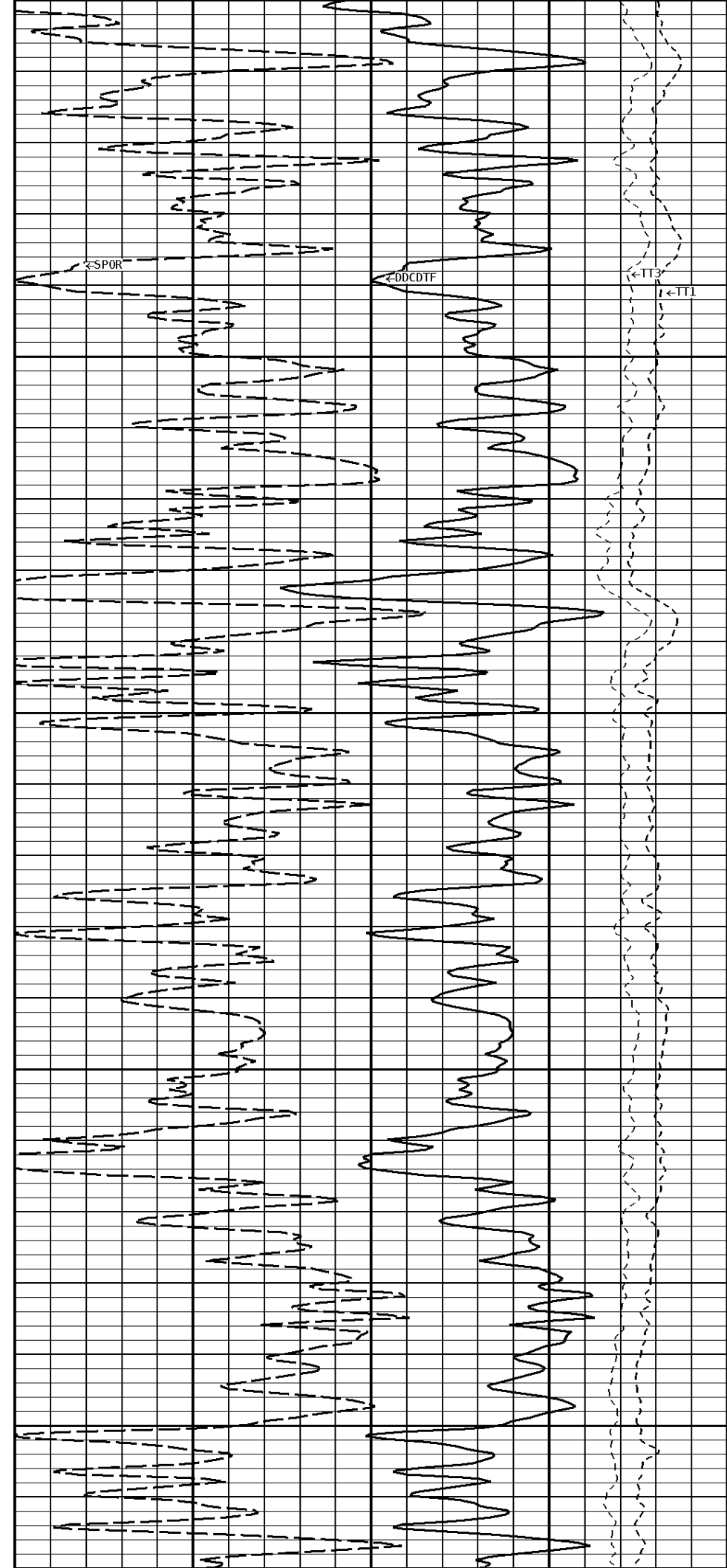


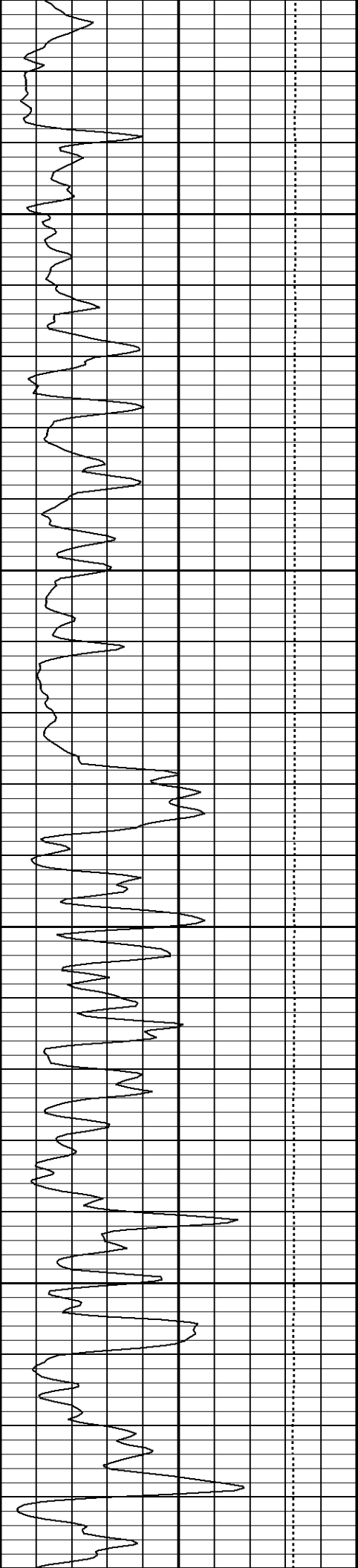


1600

1700

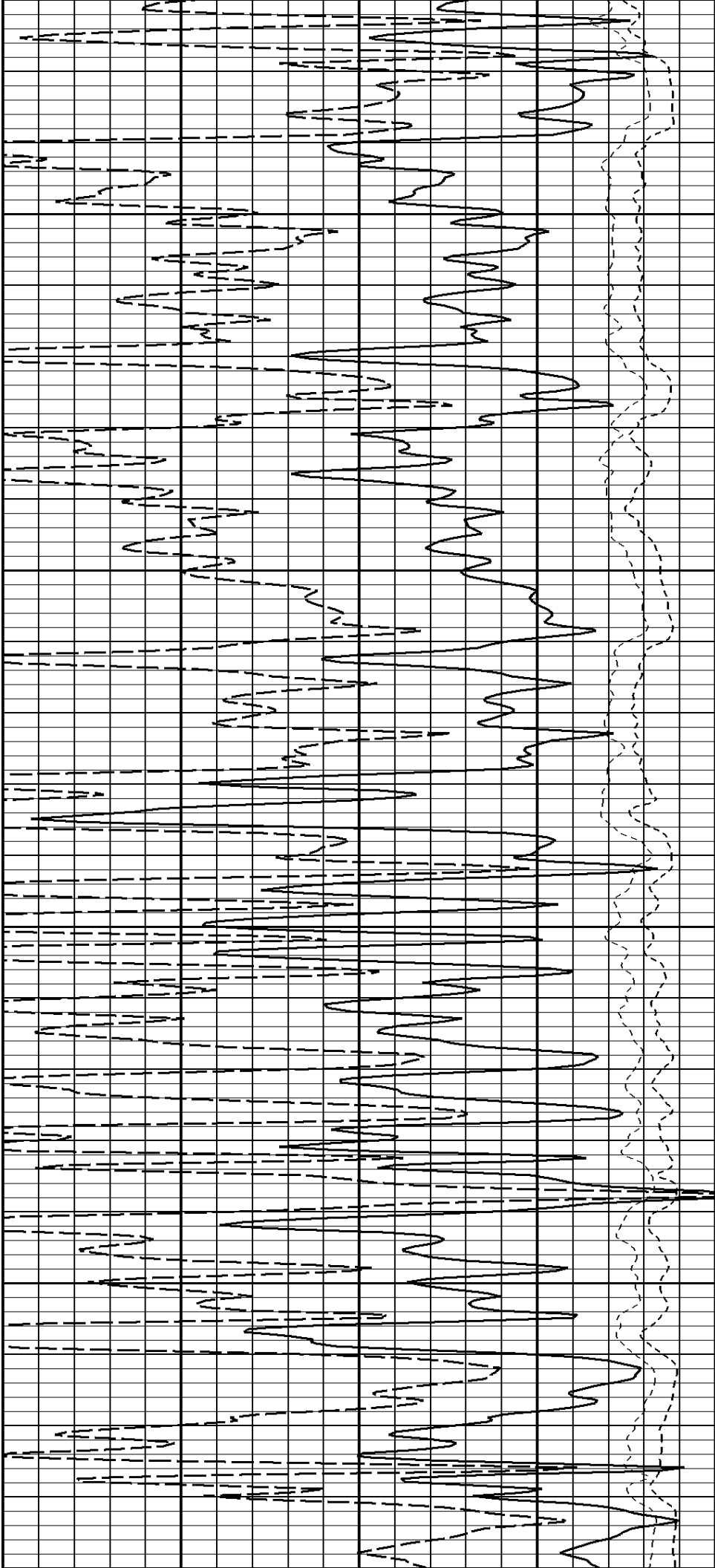
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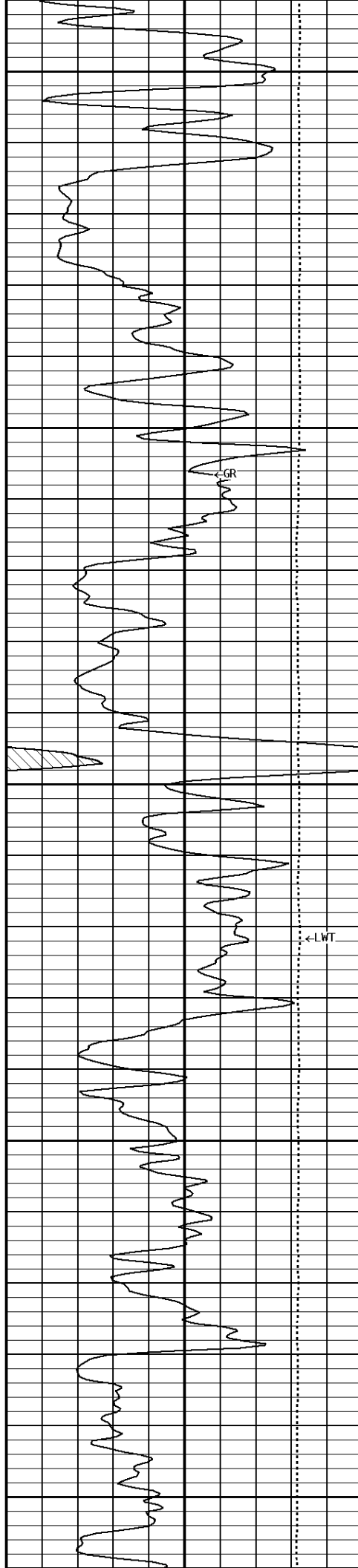




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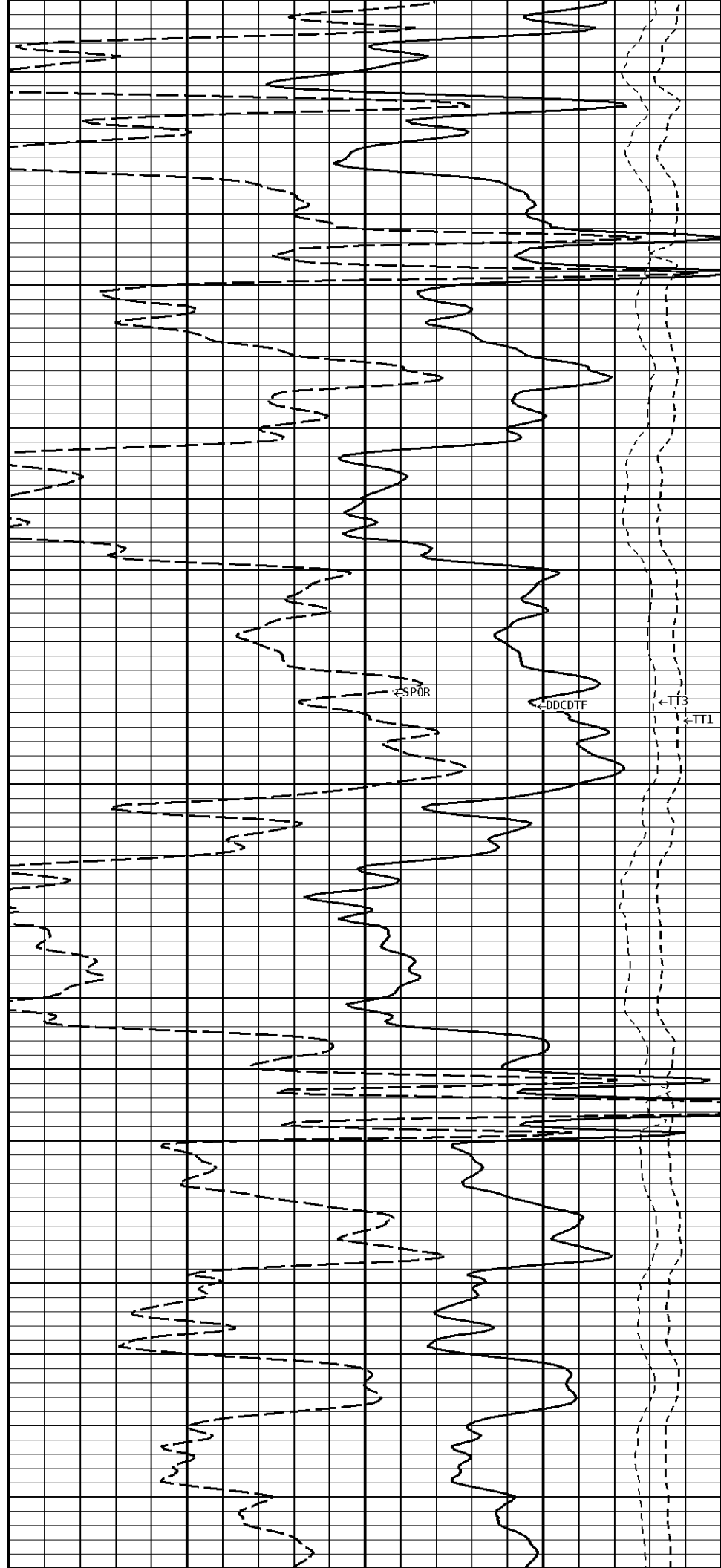
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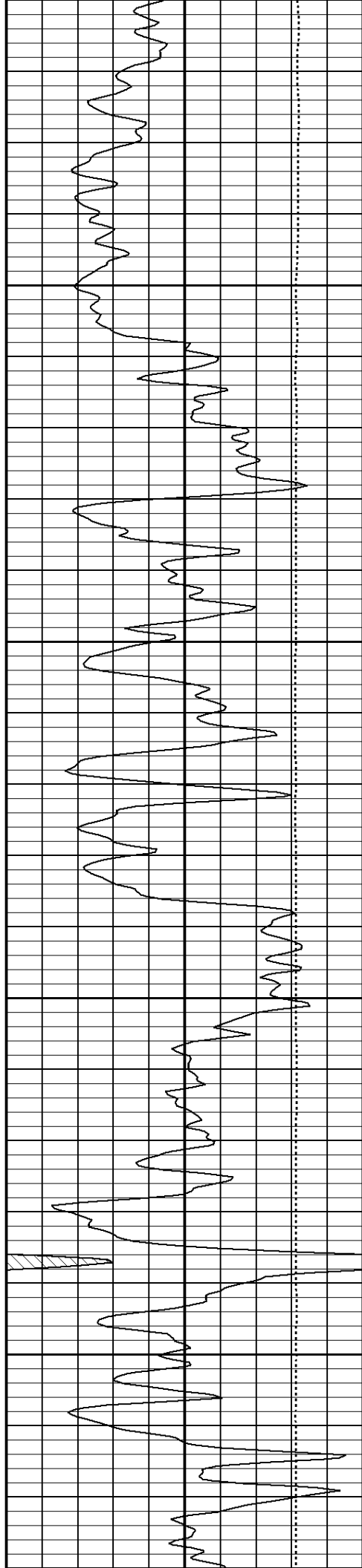




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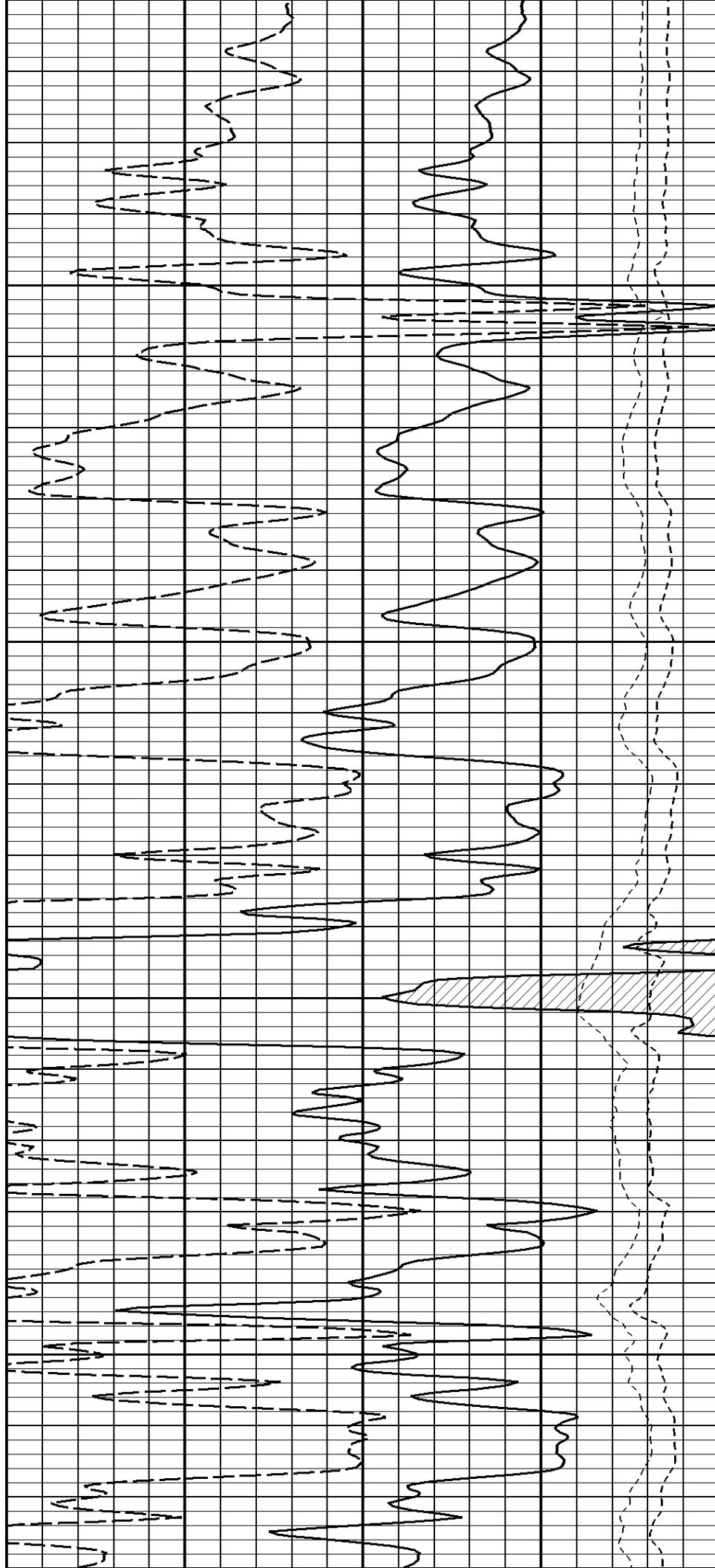
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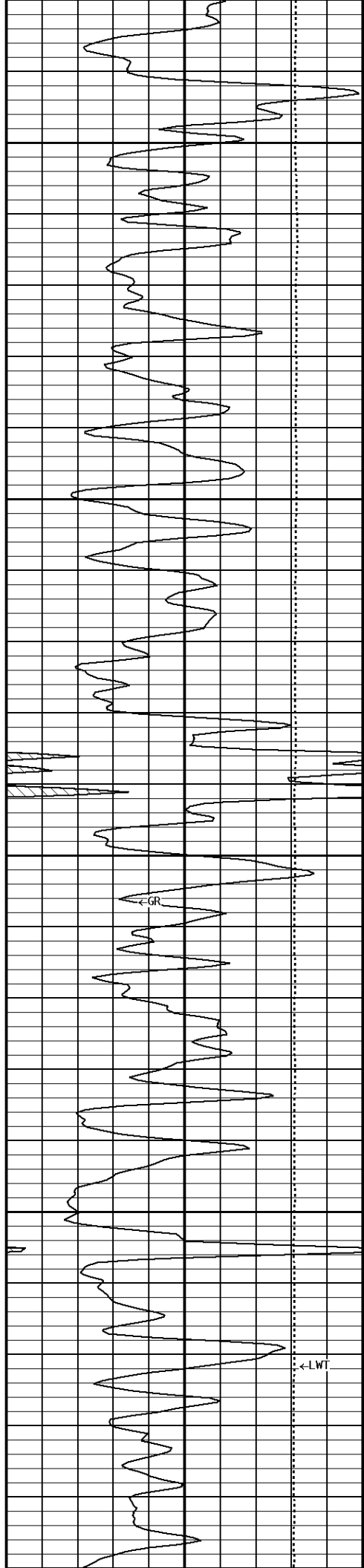




2300

2400

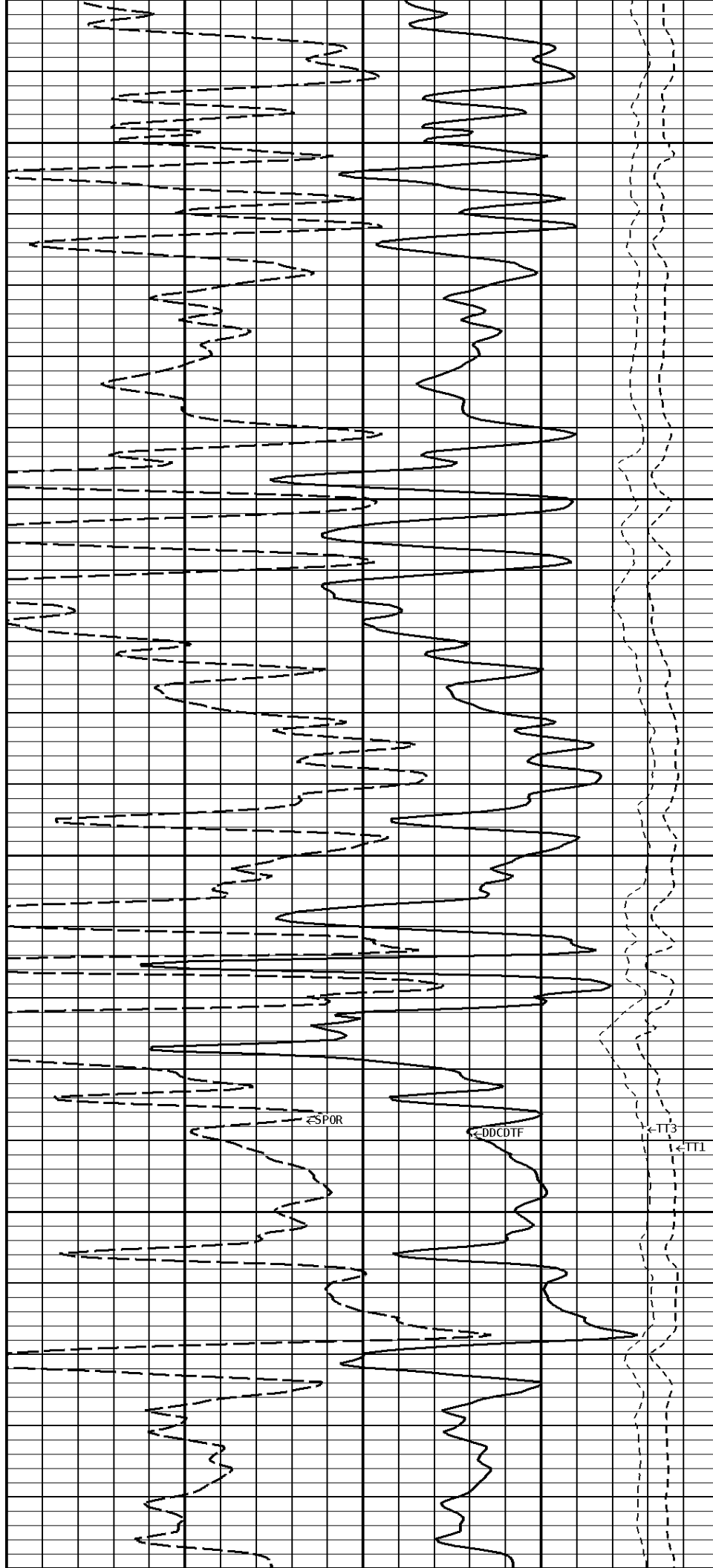


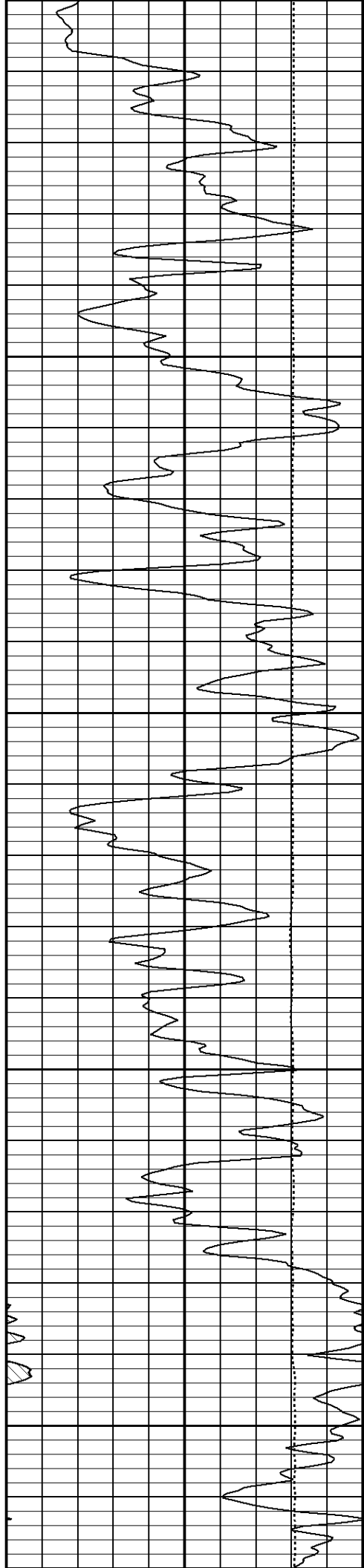


2500

2600

2700

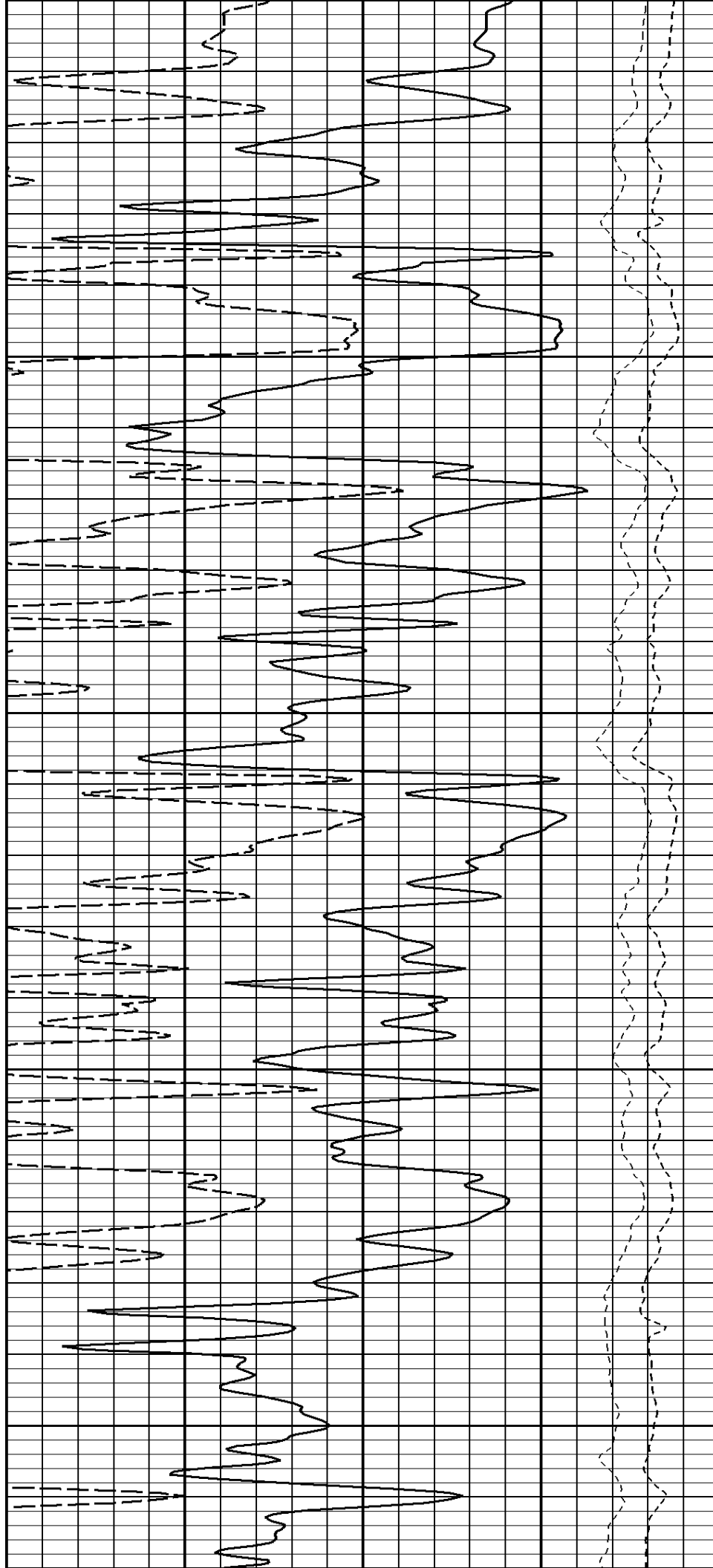


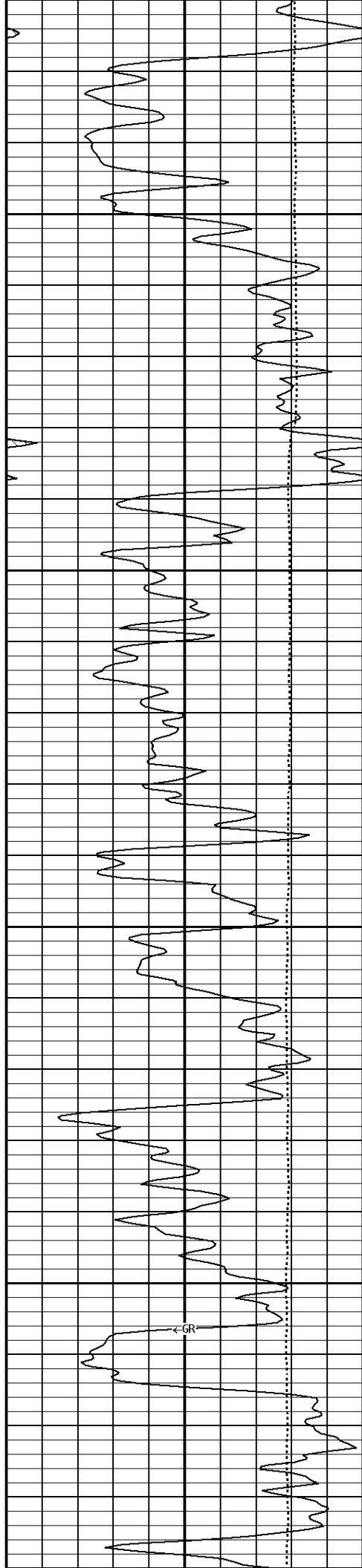


2700

2800

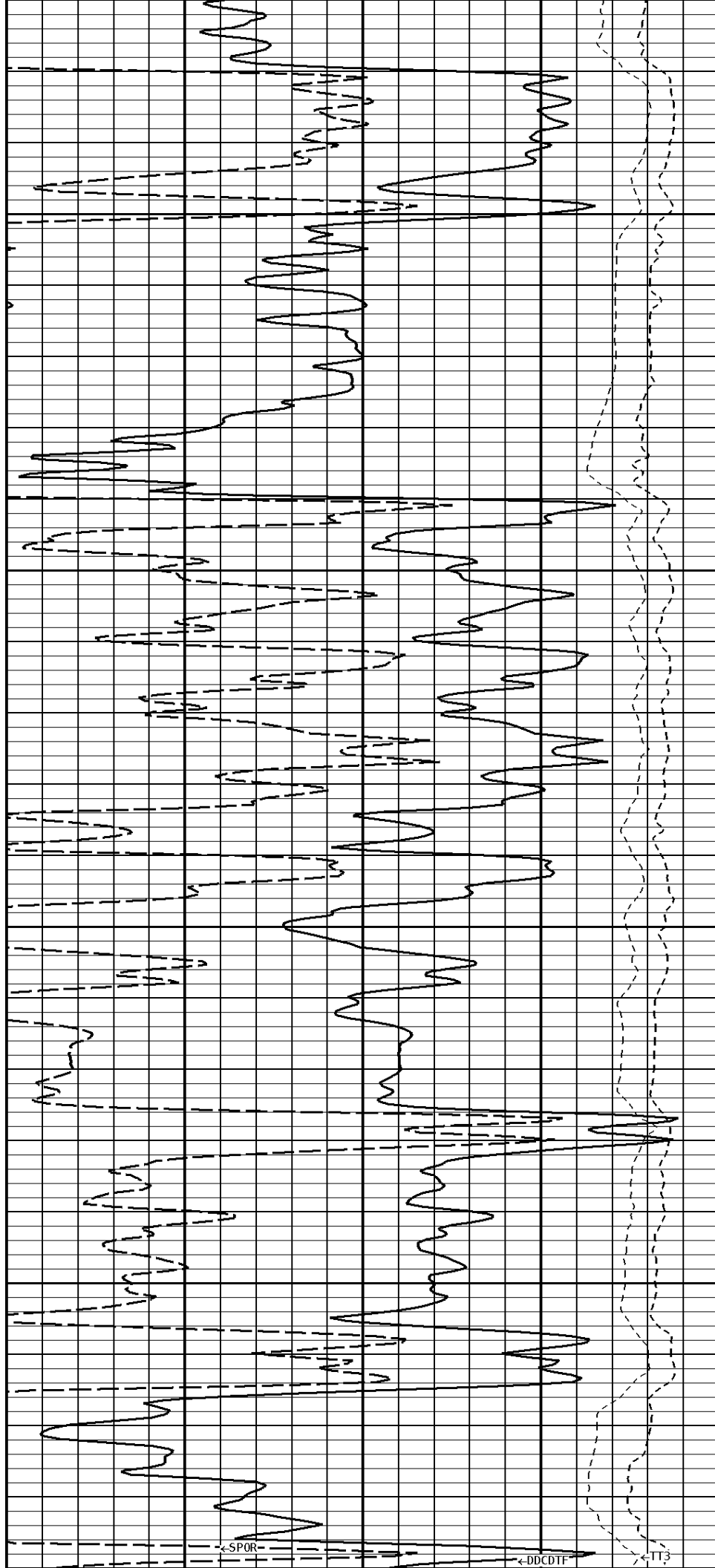
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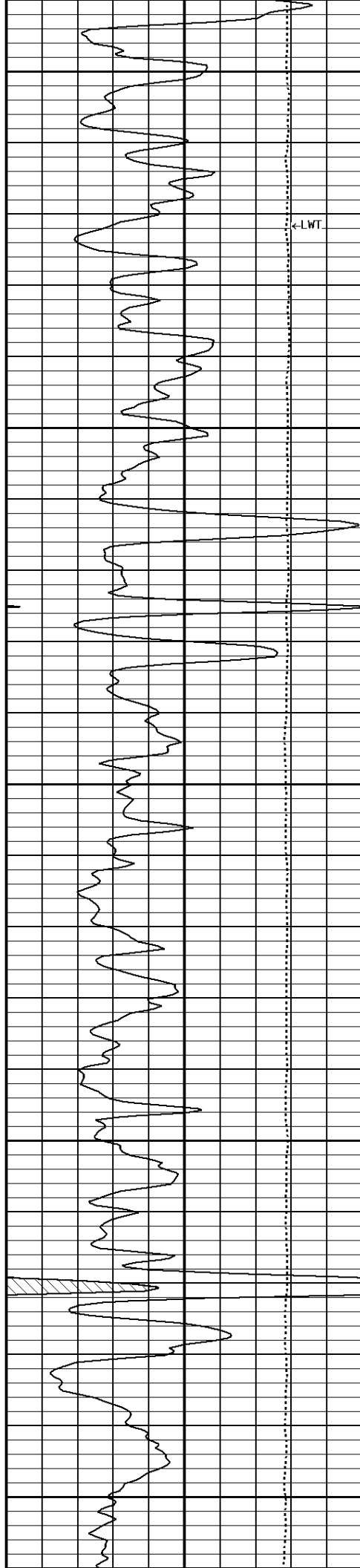




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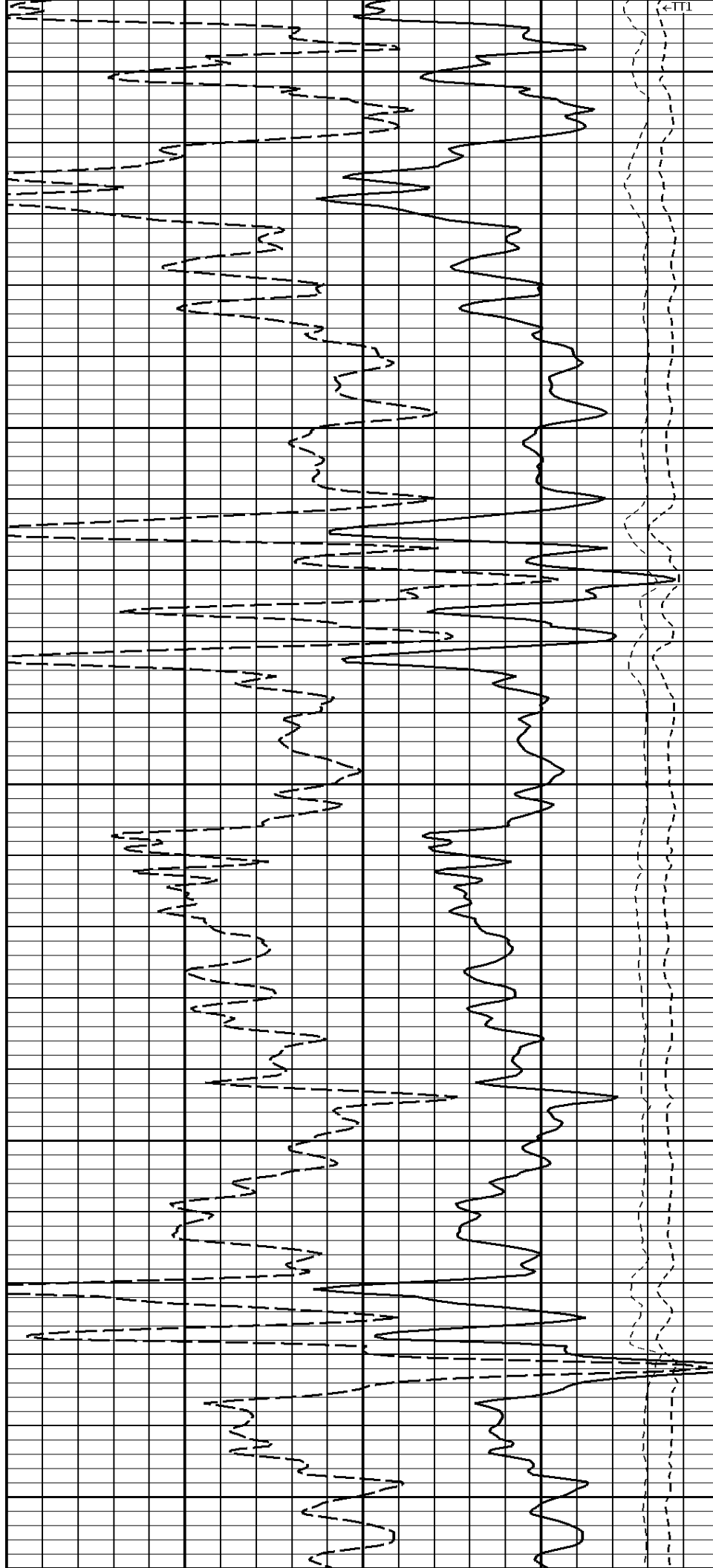
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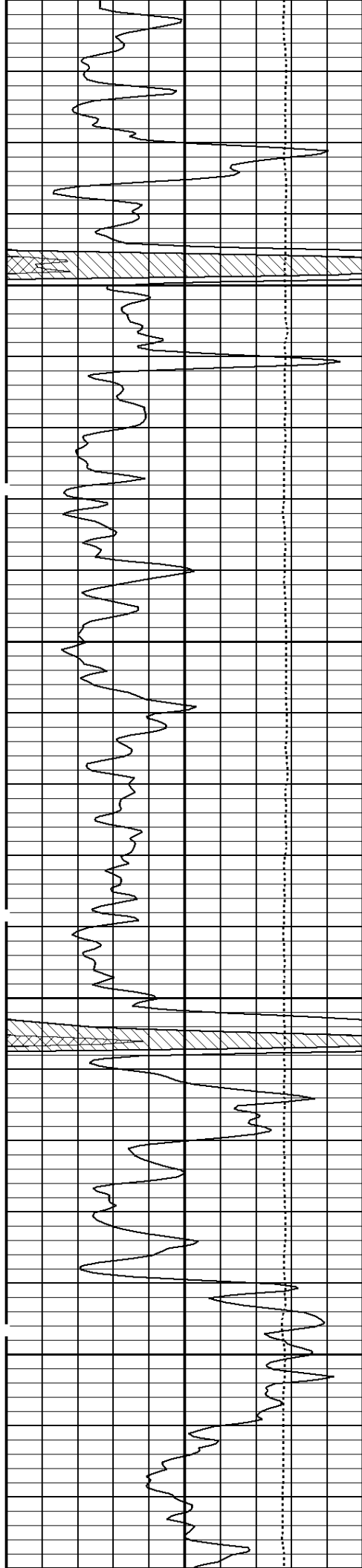




3200

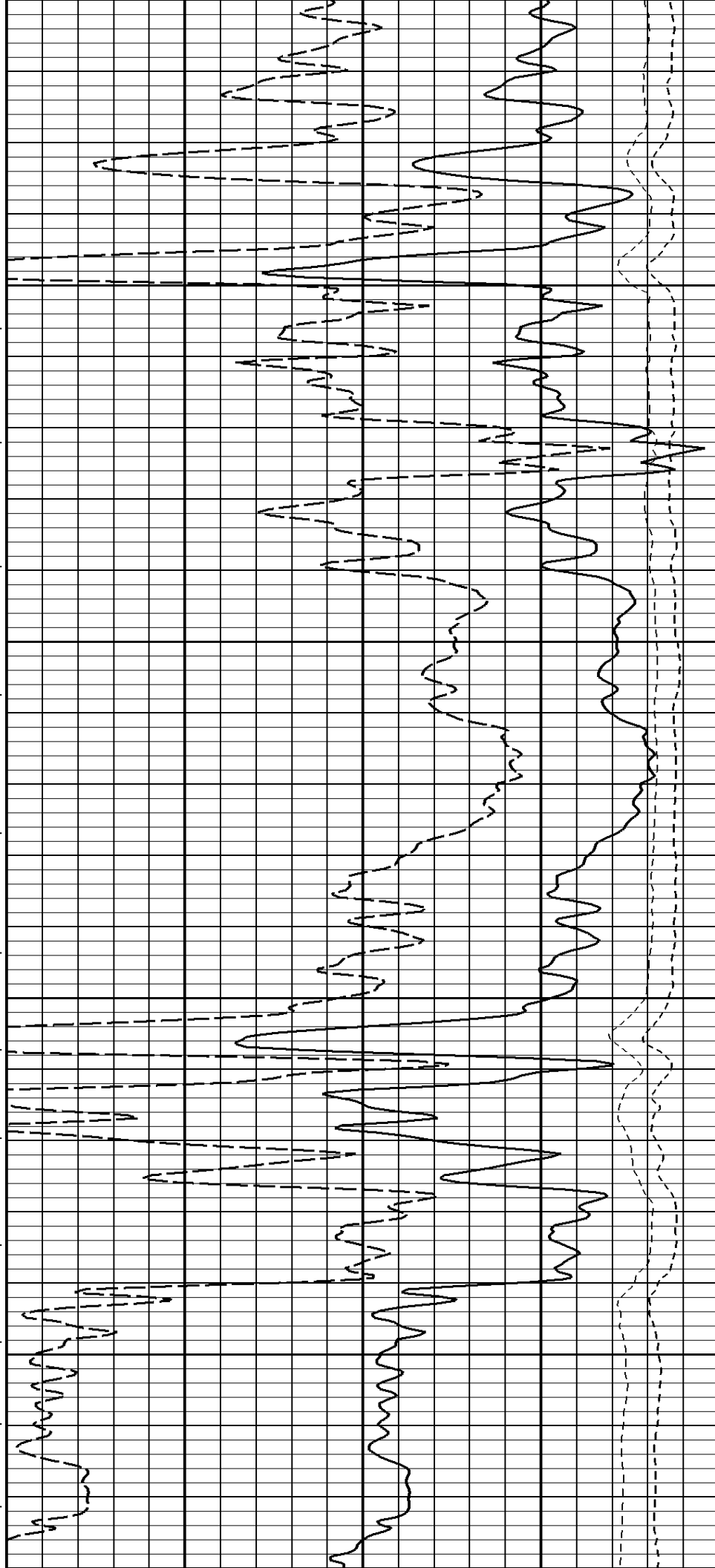
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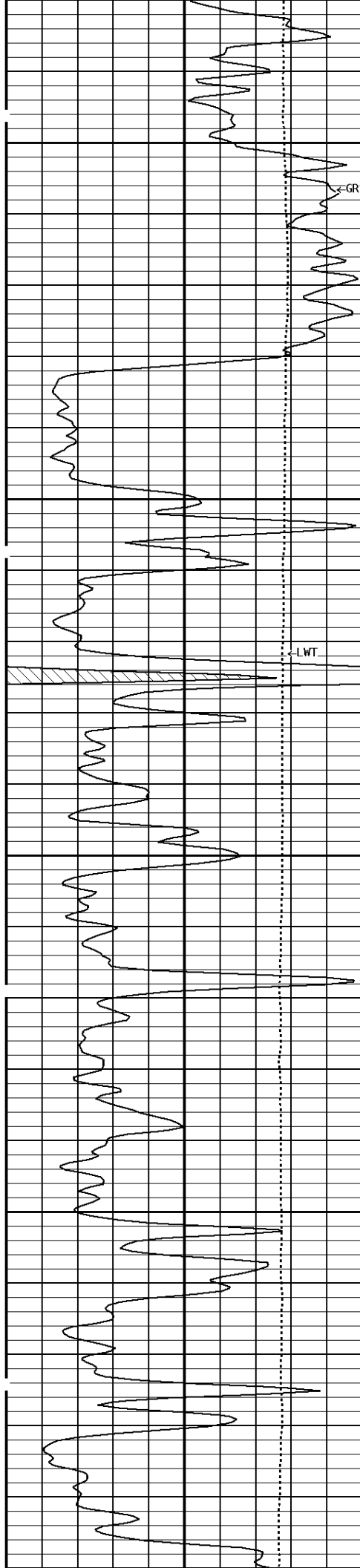




3400

3500

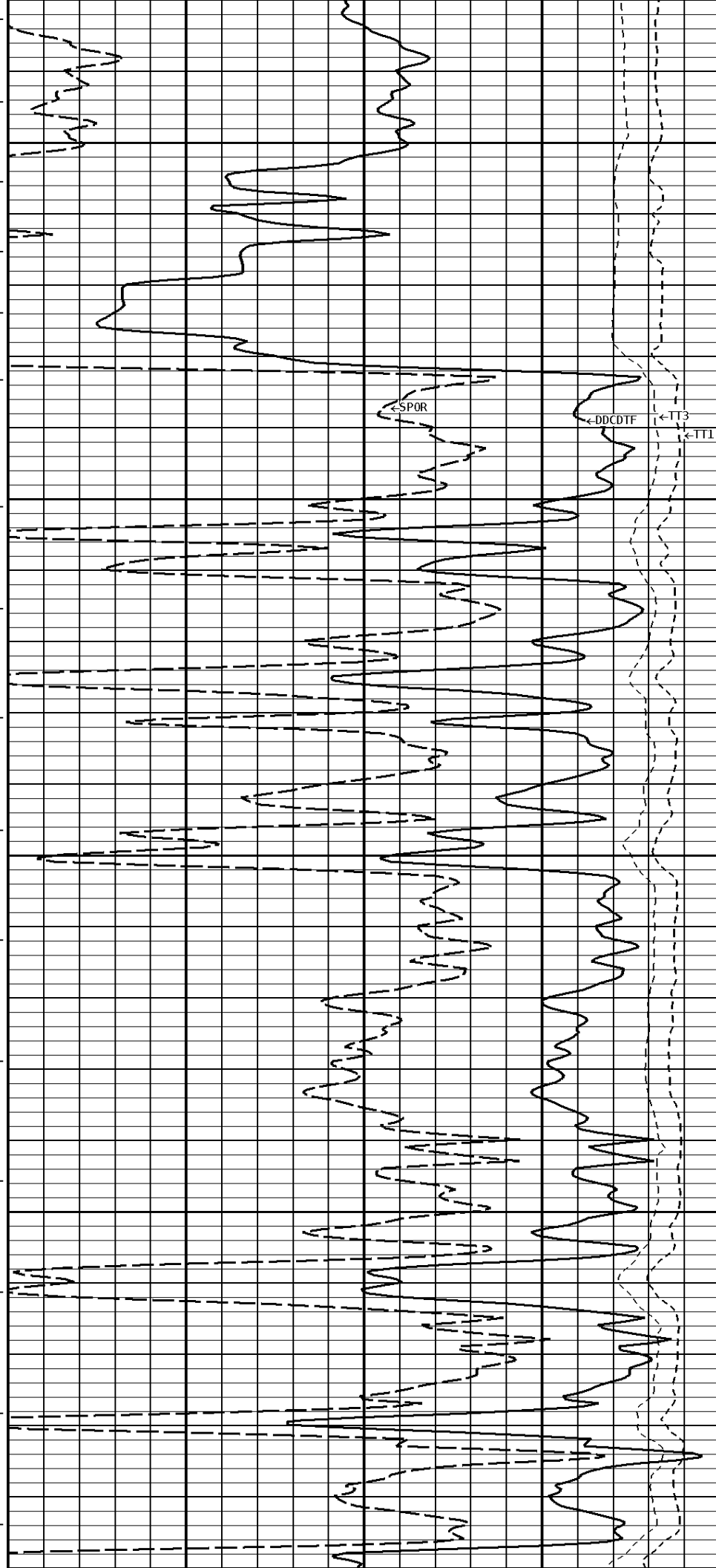


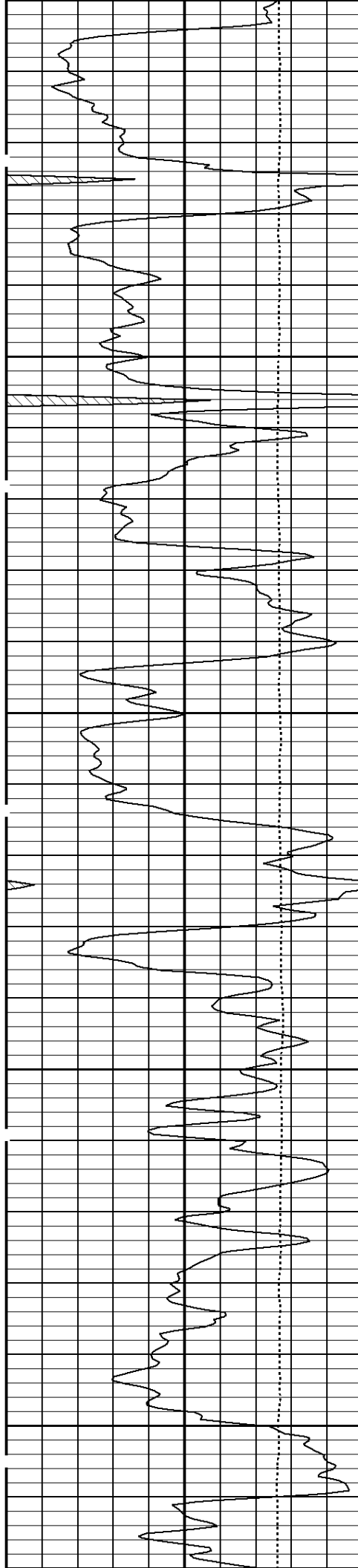


3600

3700

3800

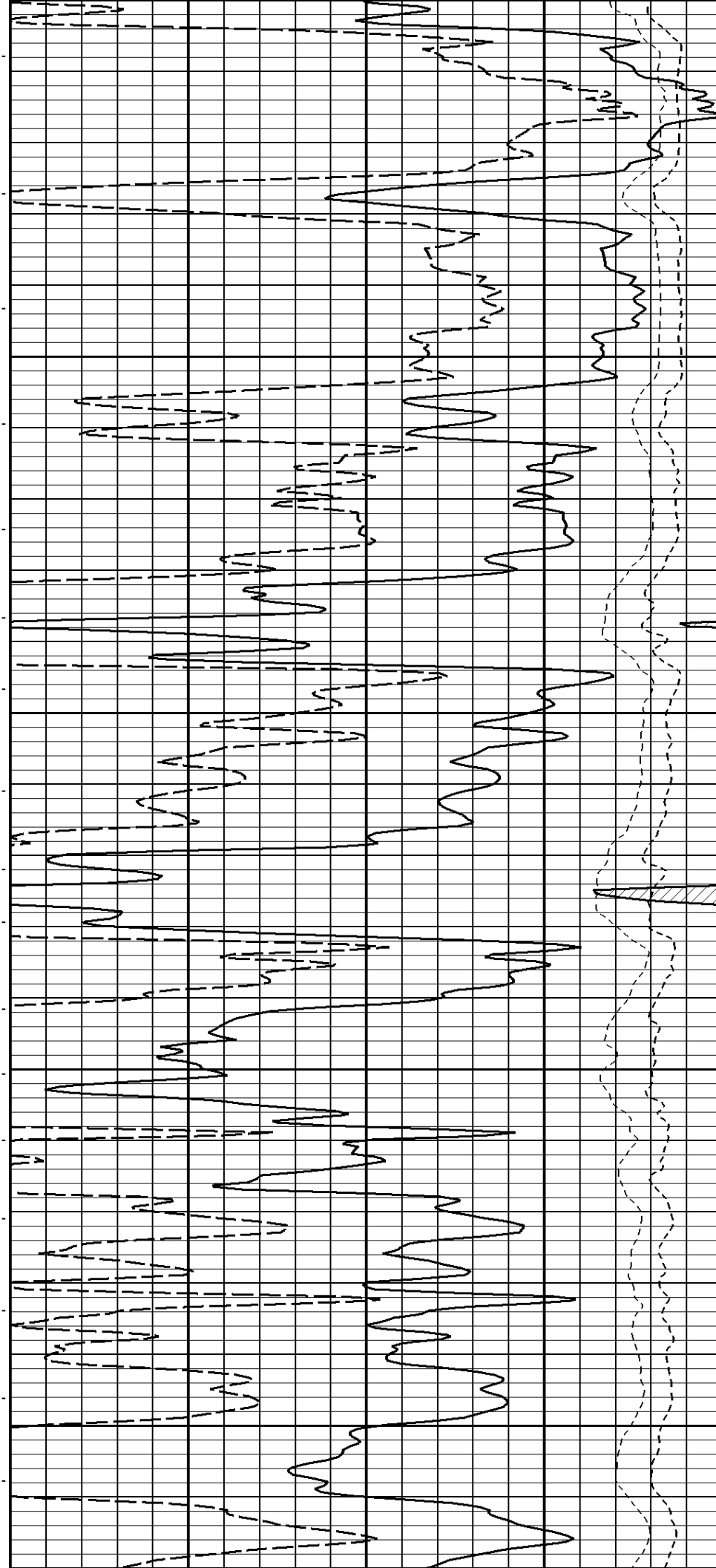


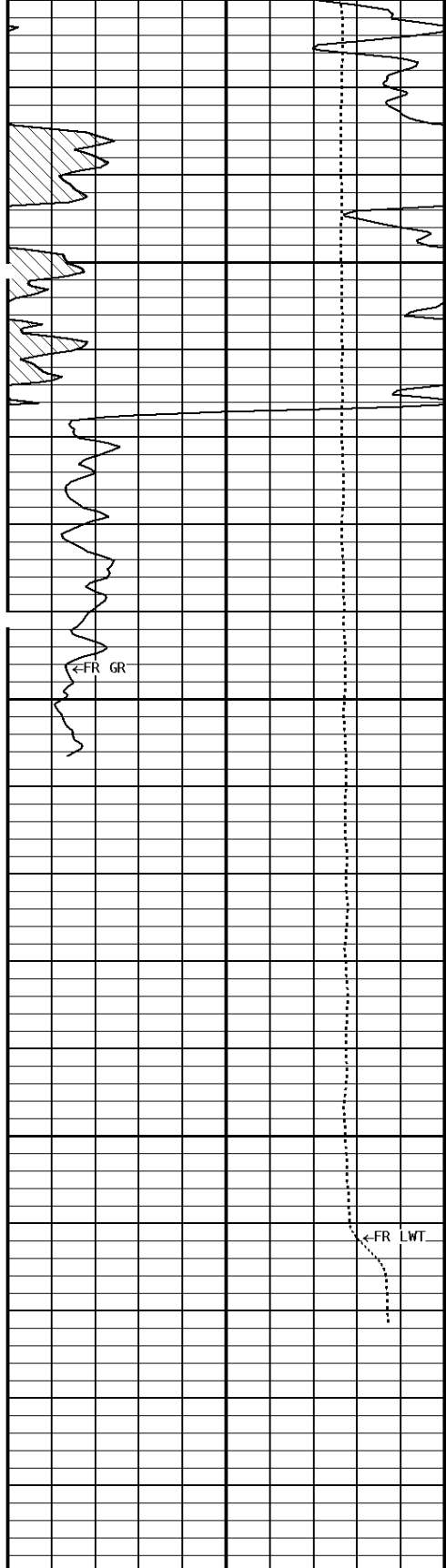


3800

3900

4000

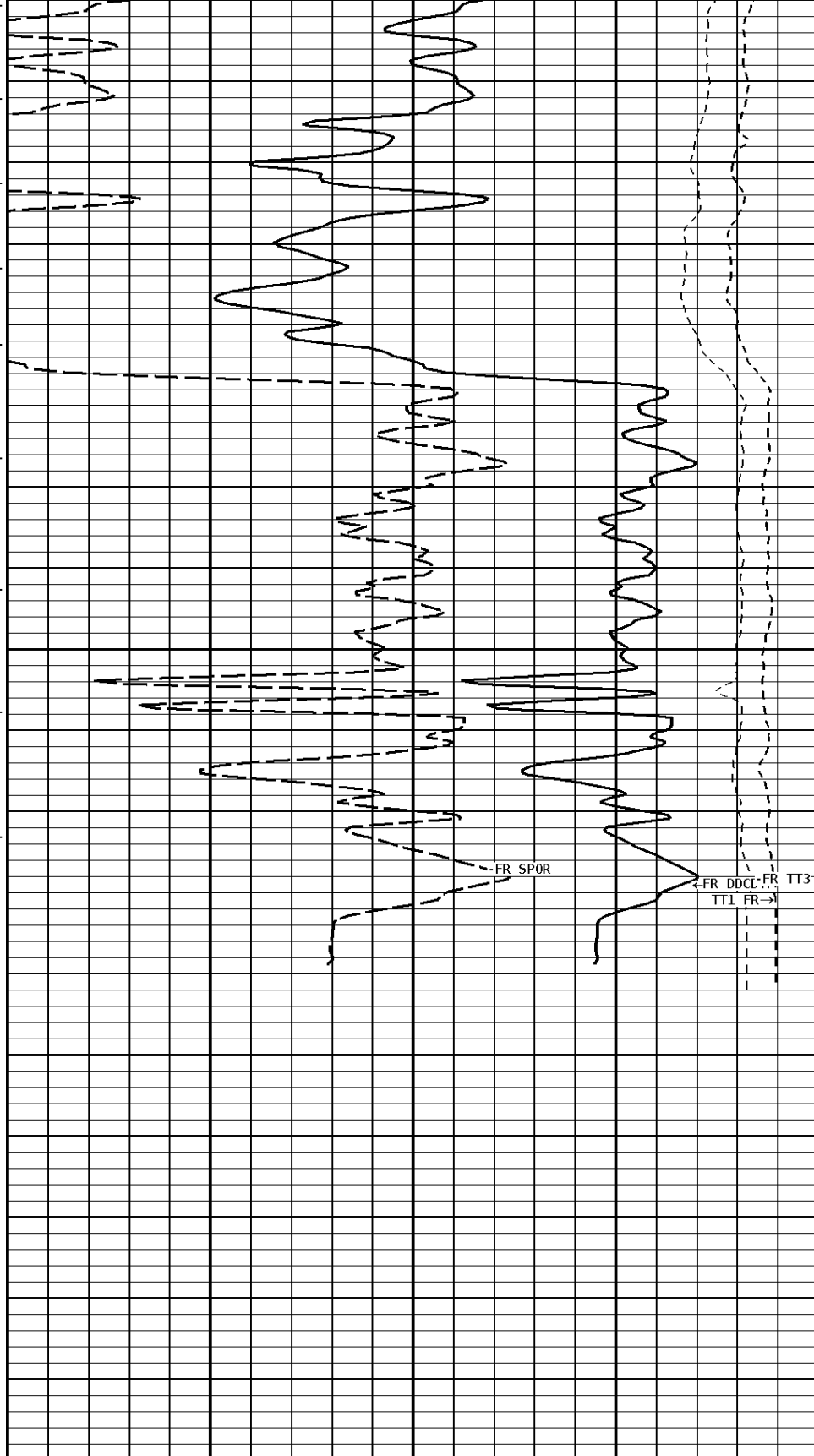




4100

4162

File #1.1.5



1:240 MAIN SECTION

GAMMA RAY
API UNITS

150 0 300 150

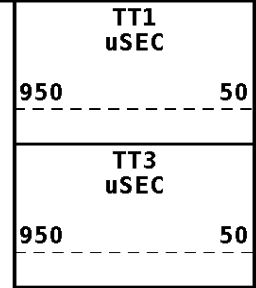
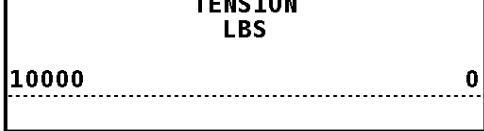
SONIC POROSITY
Percent

30

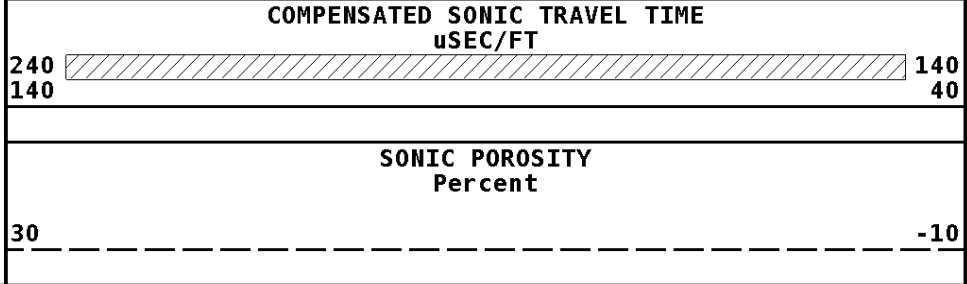
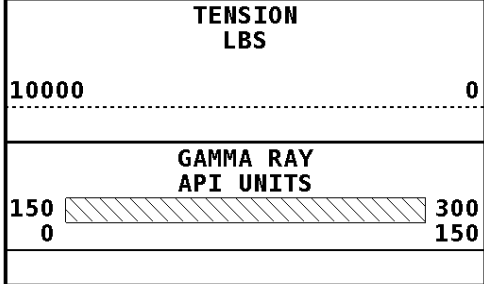
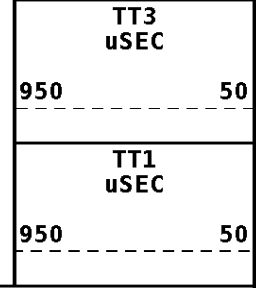
-10

TENSION

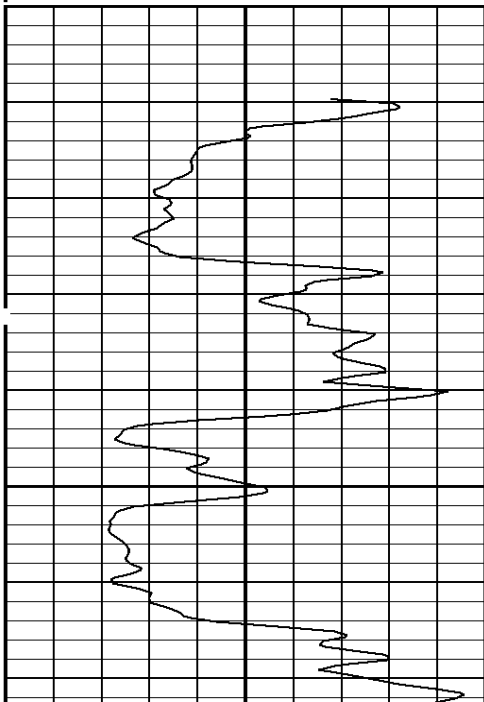
CONDENSATED GASES TRAVEL TIME



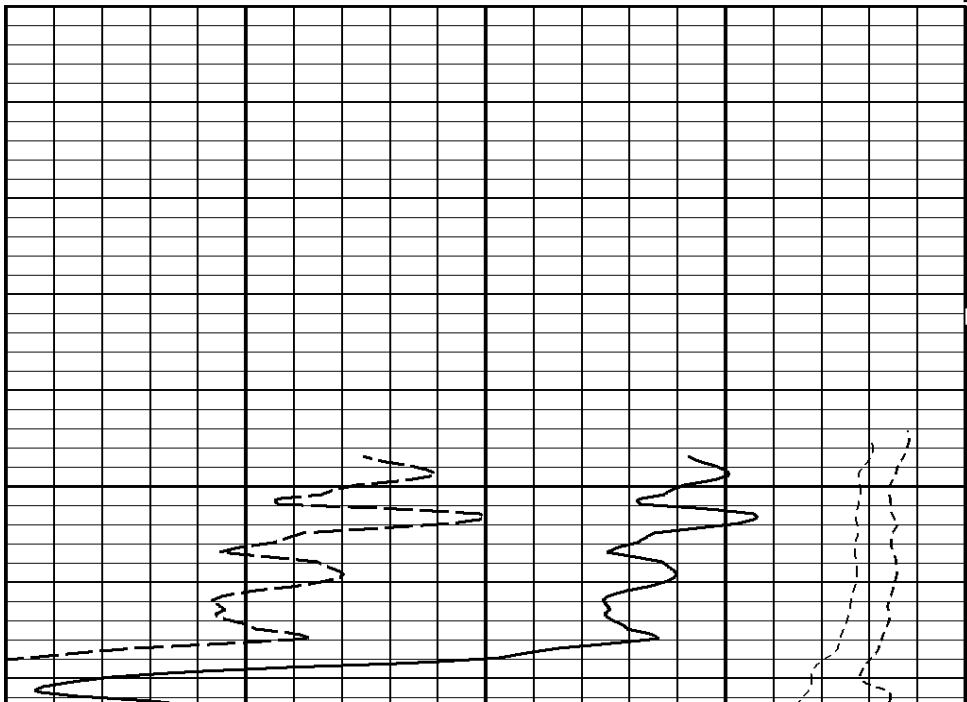
Well File: VICTORY ILSLAND 1-21_SEP18 QUINT Scale: 1:240
Segment: V1.D1.S3 Reprocess of REPEAT Acquired: 2012-09/18 03:52 3.2.0-11172
Reference: 0 Processed: 2012-09/18 04:01 3.2.0-11172

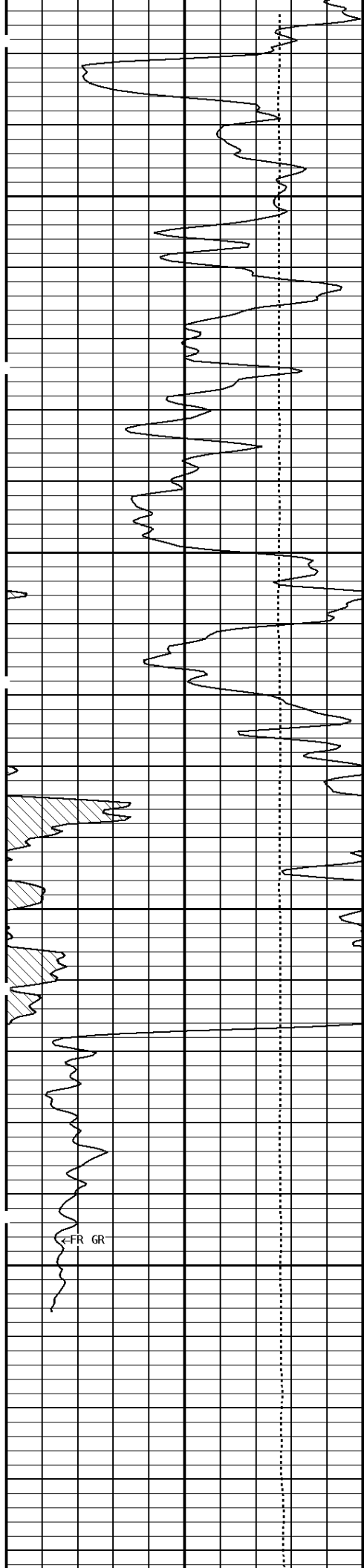


1:240 REPEAT SECTION



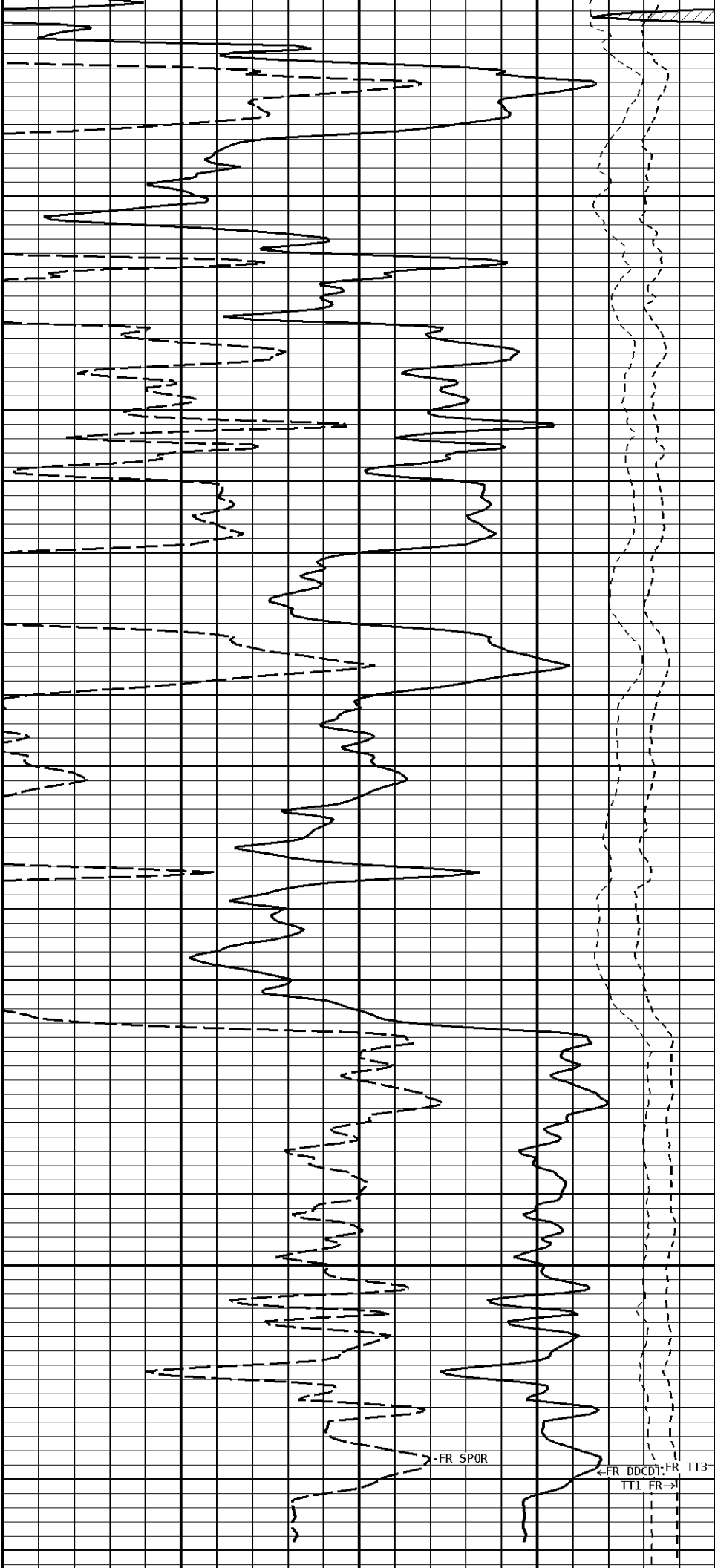
3900

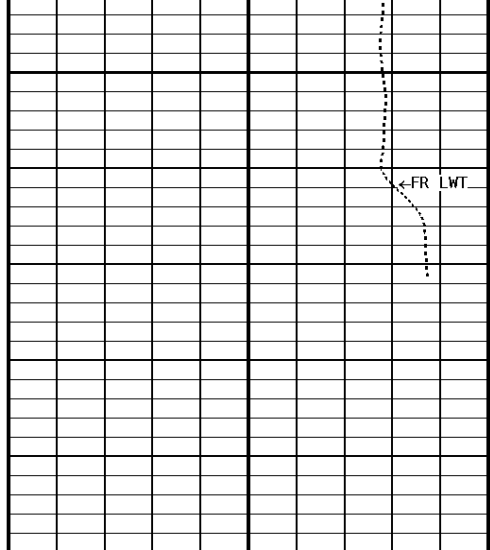




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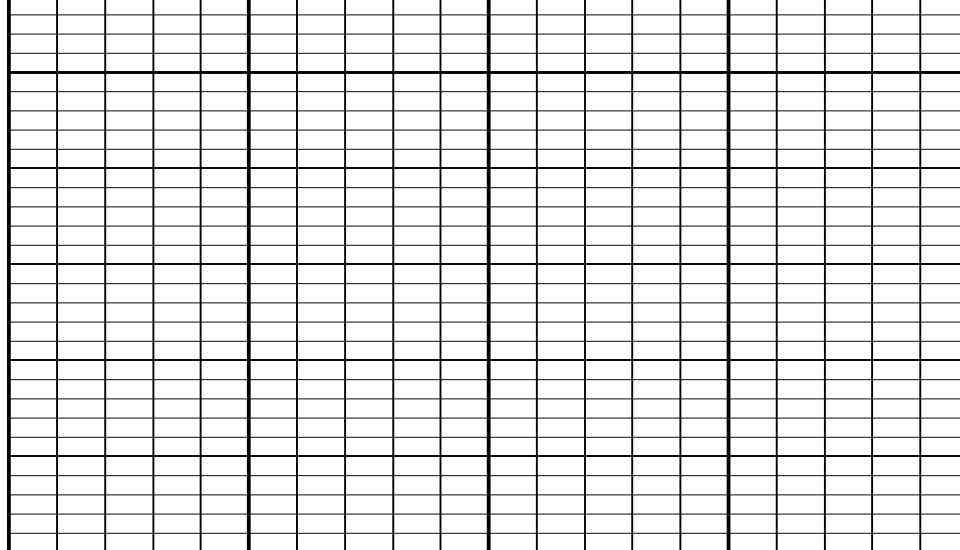
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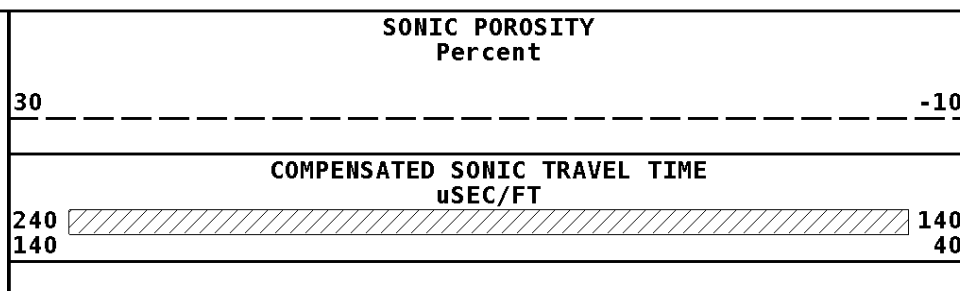
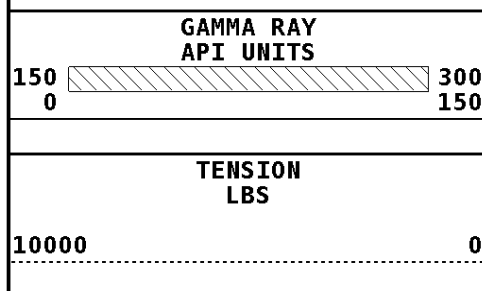


4162

File #1.1.3



1:240 REPEAT SECTION



TT1 uSEC	
950	50
TT3 uSEC	
950	50

* Calibration Summary *

Shop Calibration					
GRT-B					
Performed : 12-Jul-2012			Time : 09:53		
Sensor Suite : GR-GR5			ID : GRT-BC-43		
	Measured	Units	Calibrated	Units	
	Background	Jig	Jig		
GR	46	309	175	GRAPI	
Shop Calibration					
CST-AD					
Performed : 18-APR-2012			Time : 15:47		
Sensor Suite : SON-ANA			ID : CST-AB-38		
Transit Time					
T/R Pair	Measured		Calibrated	Units	
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	



Tucker
ENERGY SERVICES

Company: VICTORY OPERATING, INC.

Well: ILS LAND #1-21

Location: 2148' FNL & 1561' FWL

Logged: 2012-09-18

K.B. Elev: 2051.0