

Tucker

DUAL INDUCTION RESISTIVITY LOG

WIRELINE SERVICES

Company AMERICAN ENERGIES CORPORA		File No : 56803	
Well #1-11 MASTRE TRUST		Company : AMERICAN ENERGIES CORPORATION	
Field RITZ-CANTON		Well : #1-11 MASTRE TRUST	
County MCPHERSON		Field : RITZ-CANTON	
State KANSAS		County : MCPHERSON	
Country USA		State : KANSAS	
API No. 15-113-21346		Country : USA	
API No : 15-113-21346		API No : 15-113-21346	
Location : 1980' FSL & 1815' FEL W2 E2 NW SE		LSD : Sect : 11 Twp : 19S Rge : 2W	
Permanent Datum:	GL	Elevations:	Services:
Drilling Measured From:	KB	KB 1568.00	GRT
Log Measured From:	KB	DF 1567.00	CNT
Above Permanent Datum:	9.00 Ft	GL 1559.00	LDT
Date	2011-05-15		PIT
Run Number	1		
Depth--Driller	3500.0	Ft	
Depth--Logger	3500.0	Ft	
First Reading	3499.0	Ft	
Last Reading	202.0	Ft	
Casing--Driller	202.0	Ft	
Casing--Logger	202.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	CHEM		
Density	9.4	LBS/GAL	
Fluid Loss	9.2	CC	
PH/Viscosity	9.0	50.0 SEC	
Sample Source	FLOWLINE		
RMF@Measured Temp.	3.000	@ 60 F	
RMF@Measured Temp	3.450	@ 60 F	
RMF@Measured Temp.	2.550	@ 60 F	
Source RMF/RMC	CALCULATED	CALCULATED	
RM@BHT	1.530	@ 122 F	
Time Circulation Stopped			
Max Recorded Temp.	122	F	
Equipment/Base	TRK 127	TULSA	
Recorded By	T. MONTGOMERY		
Witnessed By	D. BARKER		

The customer is hereby warned that by providing the log data herein, T. W. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. W. 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. W. 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. W. 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	3500.00	8.625	32.00	202.00

Run Number	1		
Date	2011-05-15		
Date/Time On Bottom			
Depth to Fluid	0.0	Ft	
Salinity	0.000	PPM	
RMF@BHT	1.750	@ 122 F	
RMC@BHT	1.300	@ 122 F	

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.

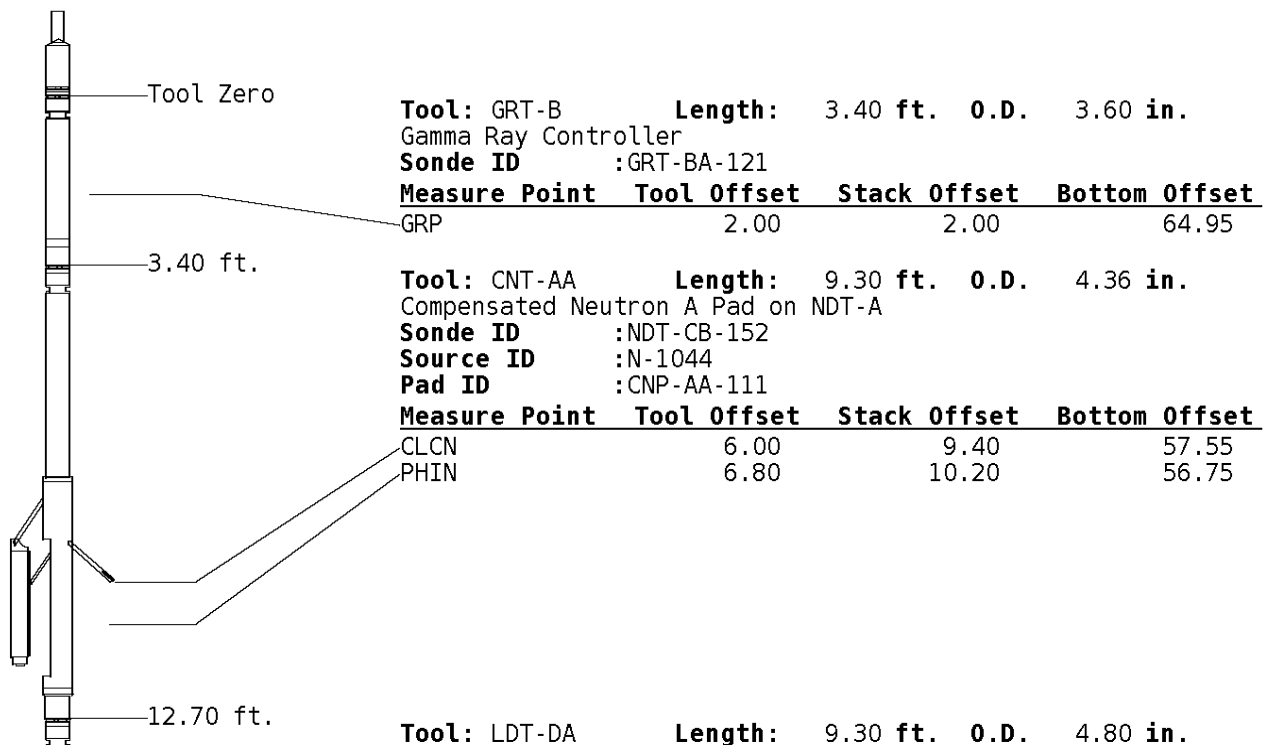
GRT: GRP.
 CNT: PHIN, CLCNIN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 MLT: NOR_R, INV_R, MSCLPIN.
 CST: PORS, DDCDTF, TT1PF, TT3PF, ITT.
 PIT: ILD, ILM, SPU, SFLAEC

OPERATORS:

J.THOMAS

Tool String Schematic

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



Litho Density D Pad on NDT-A
Sonde ID :PDT-GA-465
Source ID :CSV-587
Pad ID :LDP-DA-065

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	48.25
PEL	7.00	19.70	47.25
PES	7.40	20.10	46.85
LDEN	7.20	19.90	47.05
LCOR	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-NG-26

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-AD-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-CA-074

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: AMERICAN MASTRE 1-11 APR 15 QUINT

Scale: 1:600

Segment: V1.D1.S5 MN_REPRO

Acquired: 2011-05/15 13:46 3.2.0-9901

Reference: 0

Processed: 2011-05/16 10:00 3.2.0-9901

TENSION
LBS

10000

0

SPONTANEOUS POTENTIAL
mV

→ | ← 20

GAMMA RAY
API UNITS

150
0

300
150

SHALLOW FOCUSED RESISTIVITY
OHMM

0.0
0.0

500.0
50.0

DEEP INDUCTION
OHMM

0.0
0.0

500.0
50.0

DEEP CONDUCTIVITY
MMHO

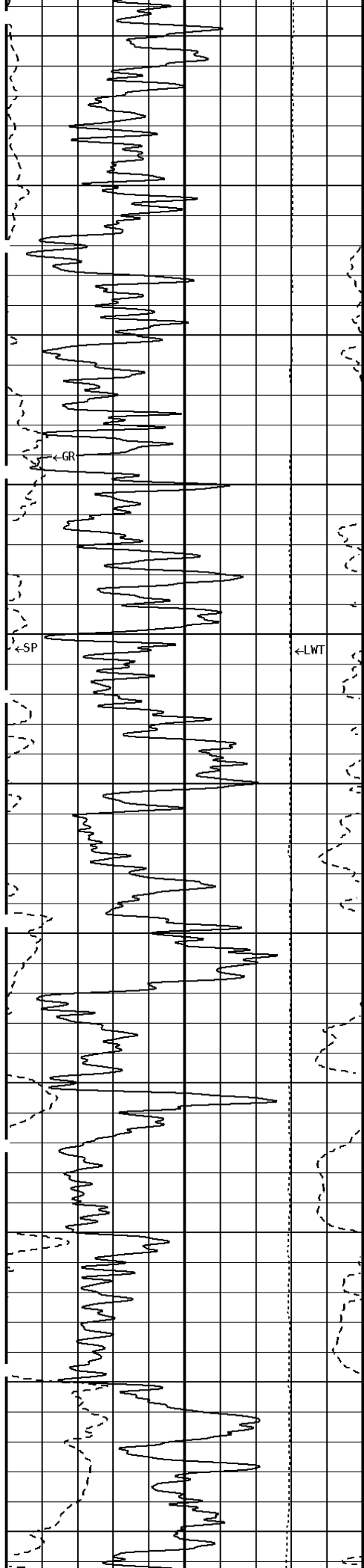
2000
1000

1000
0

1:600 SECTION
2 INCH

File #1.1.5

200



300

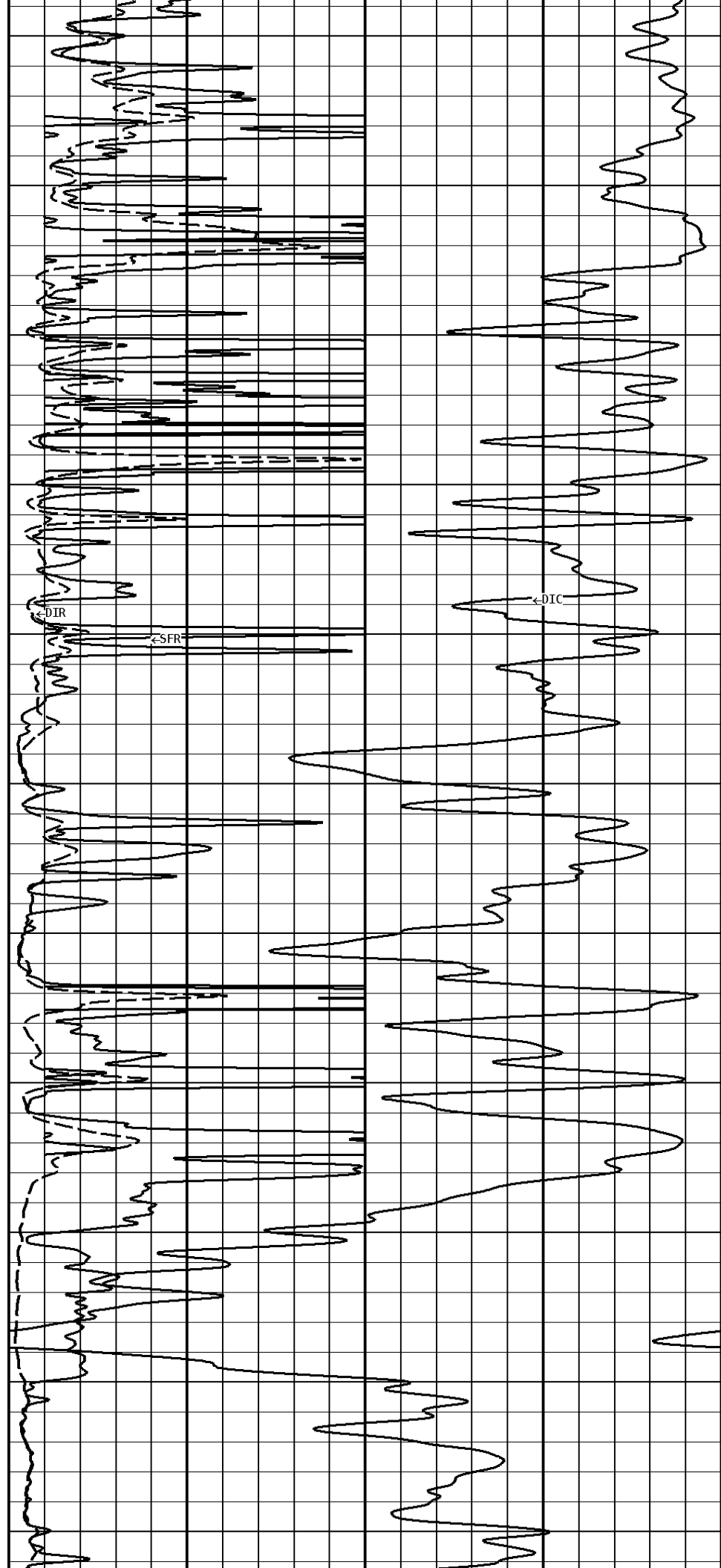
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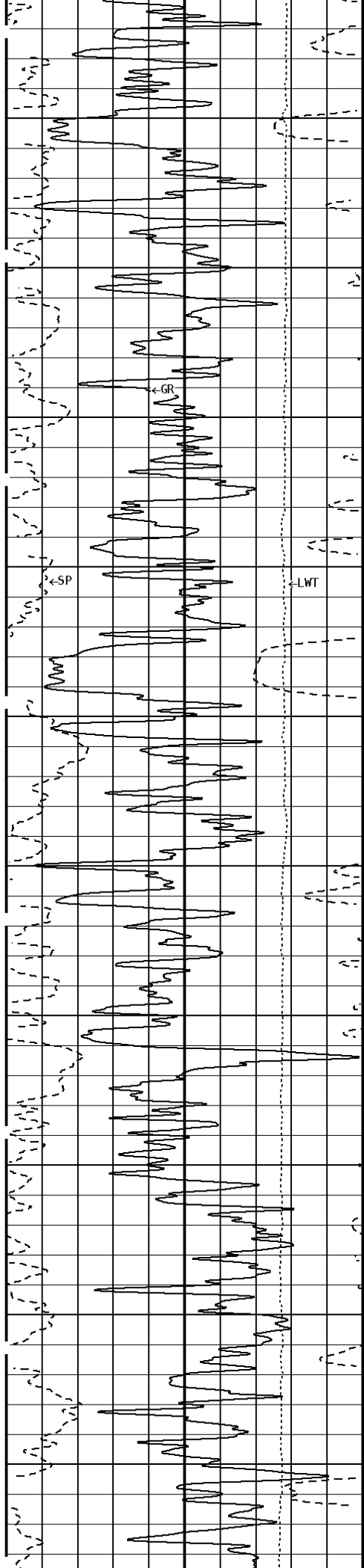
500

600

700

800





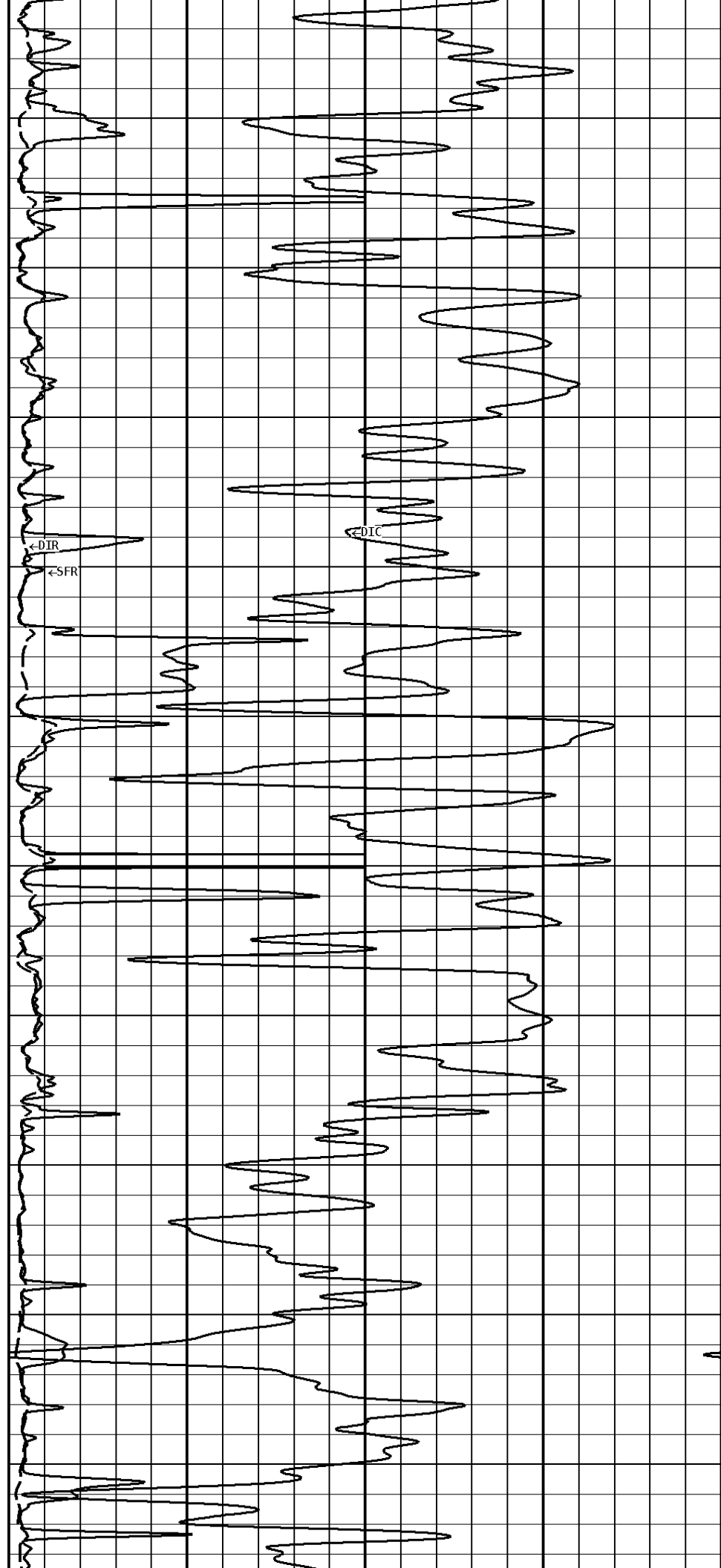
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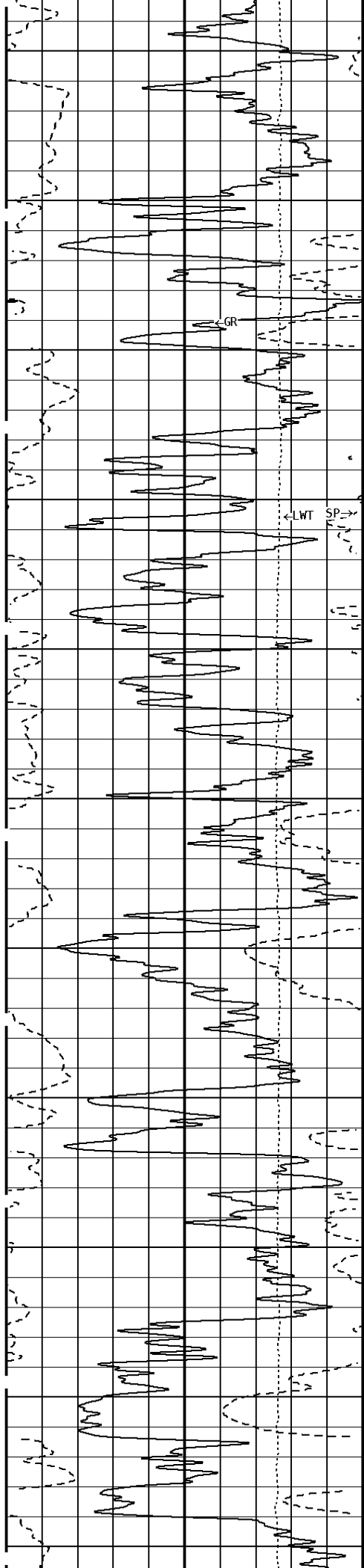
1000

1100

1200

1300





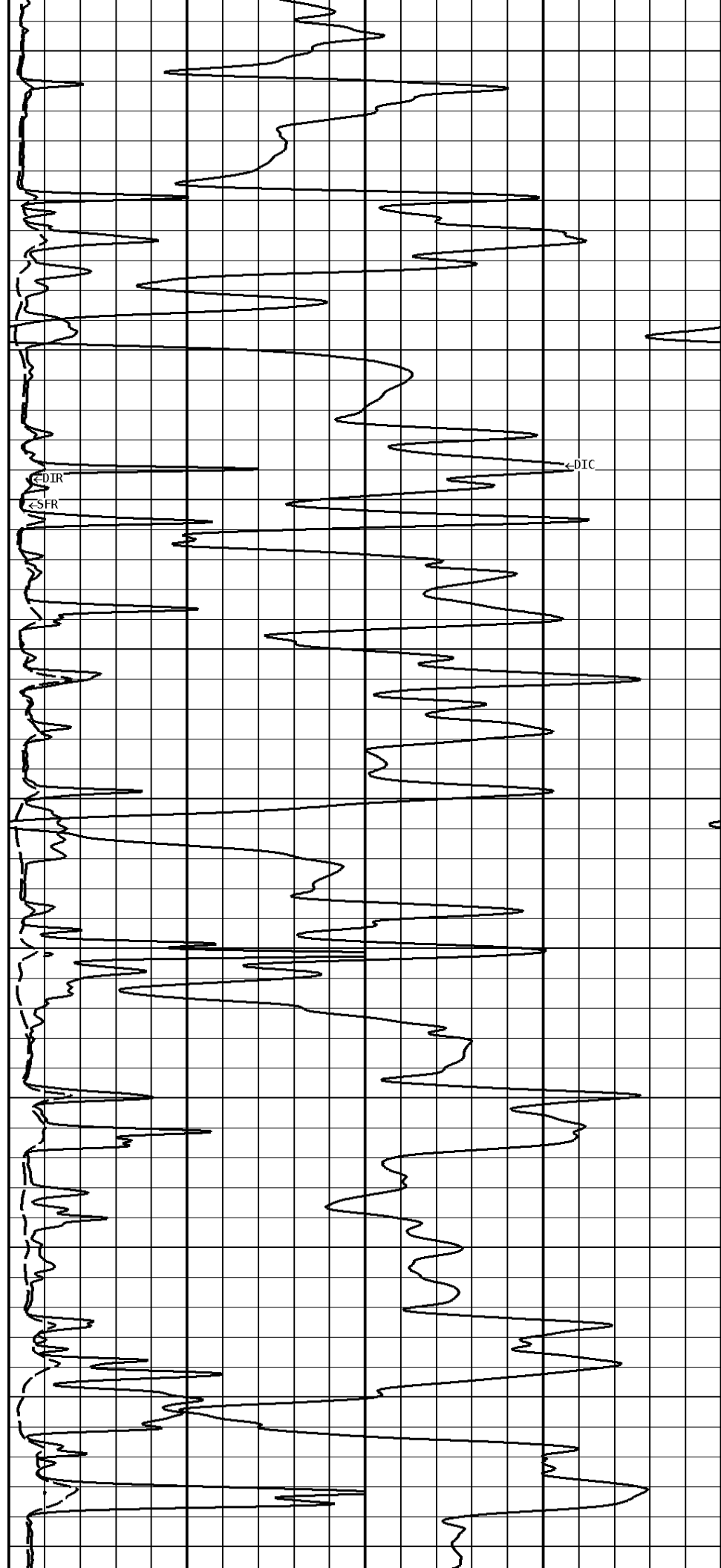
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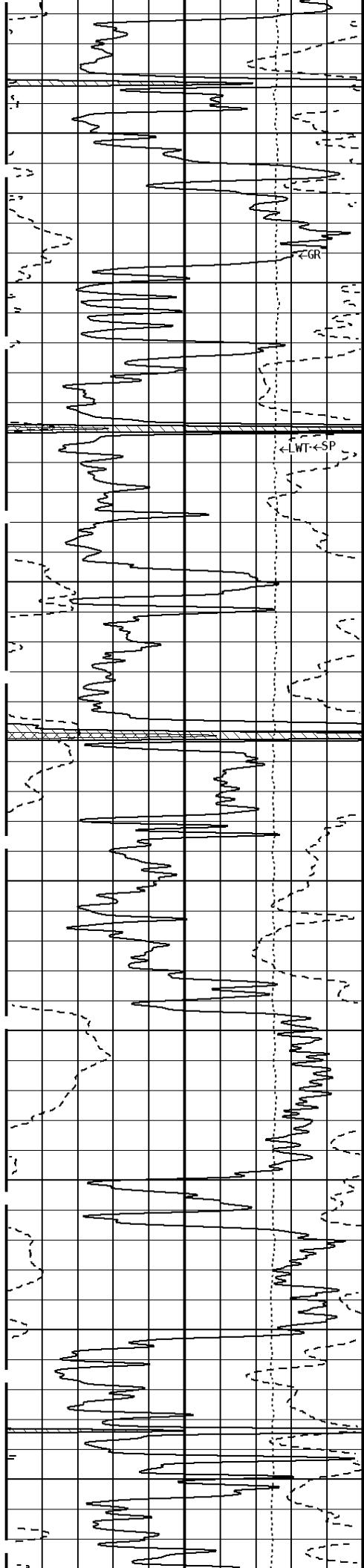
1500

1600

1700

1800





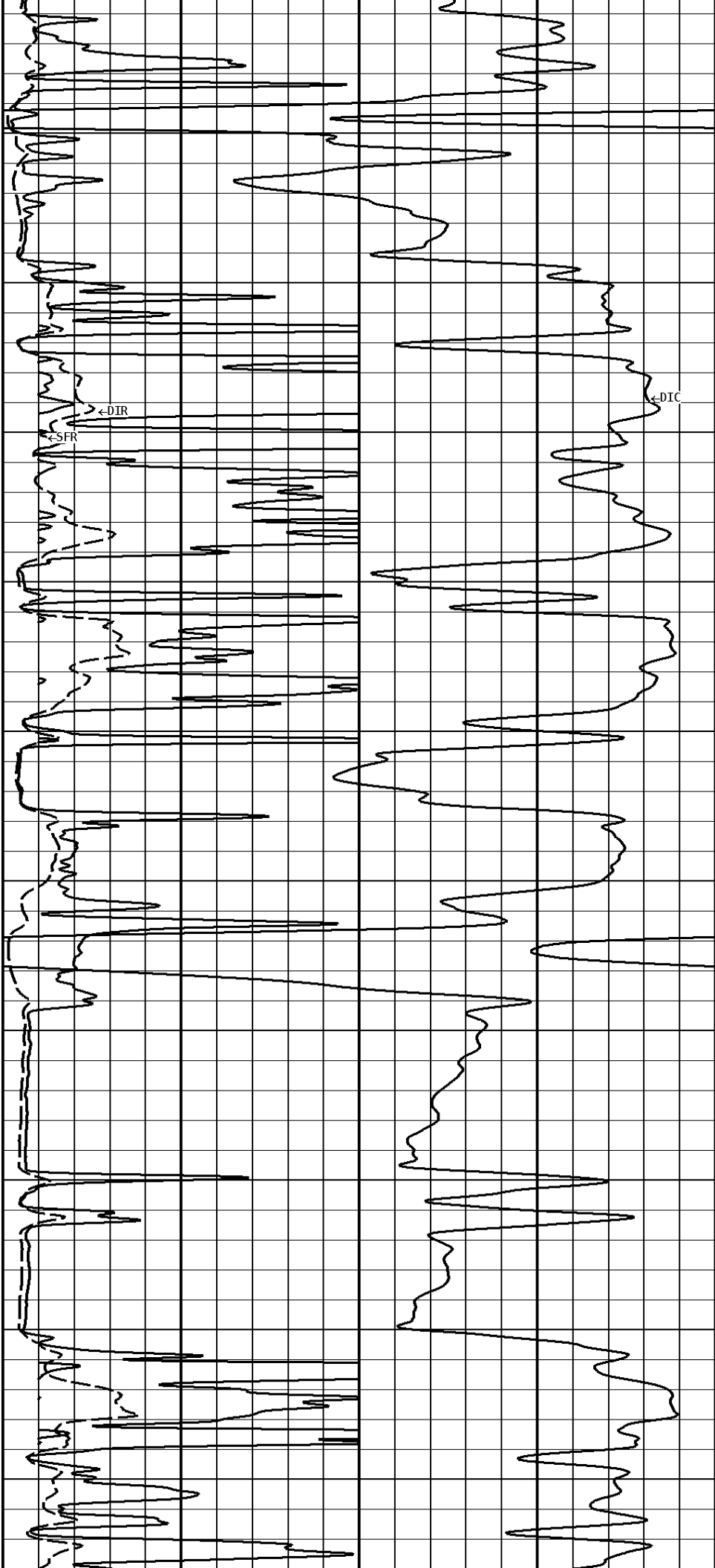
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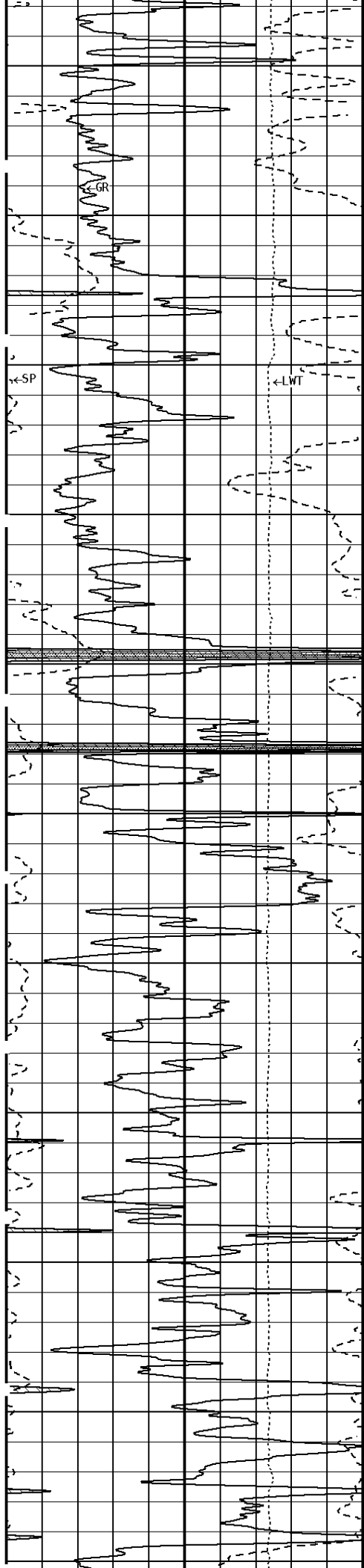
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2100

2200

2300





2400

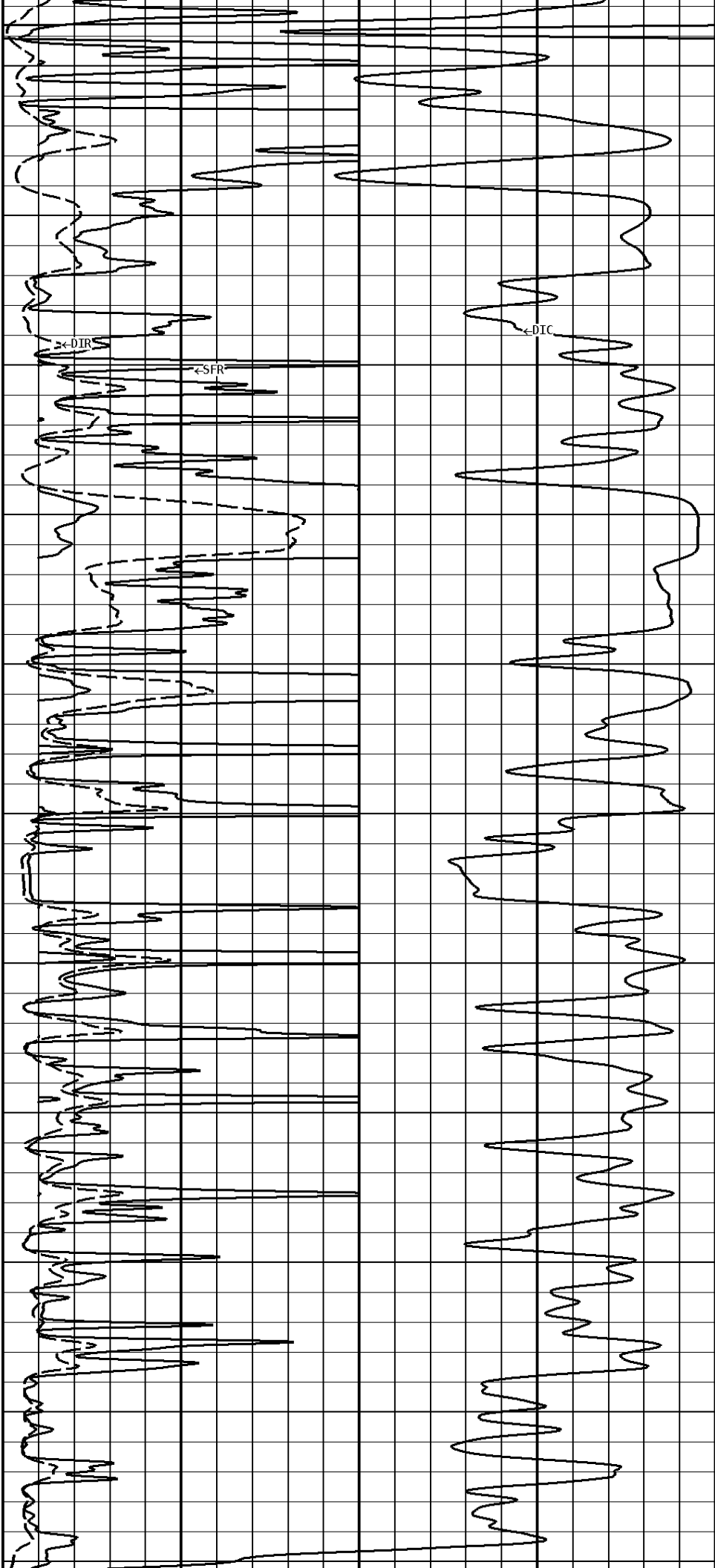
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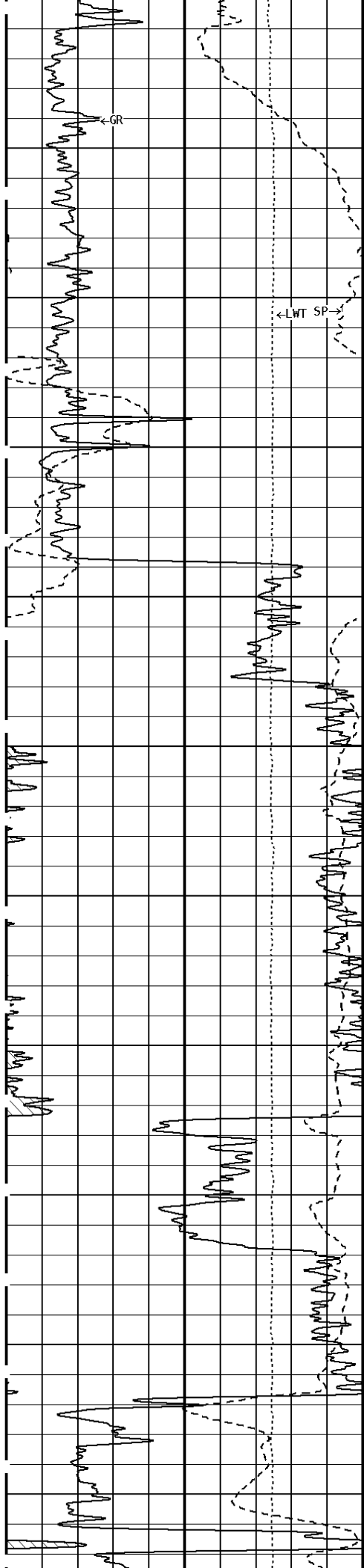
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2700

2800

2900





2900

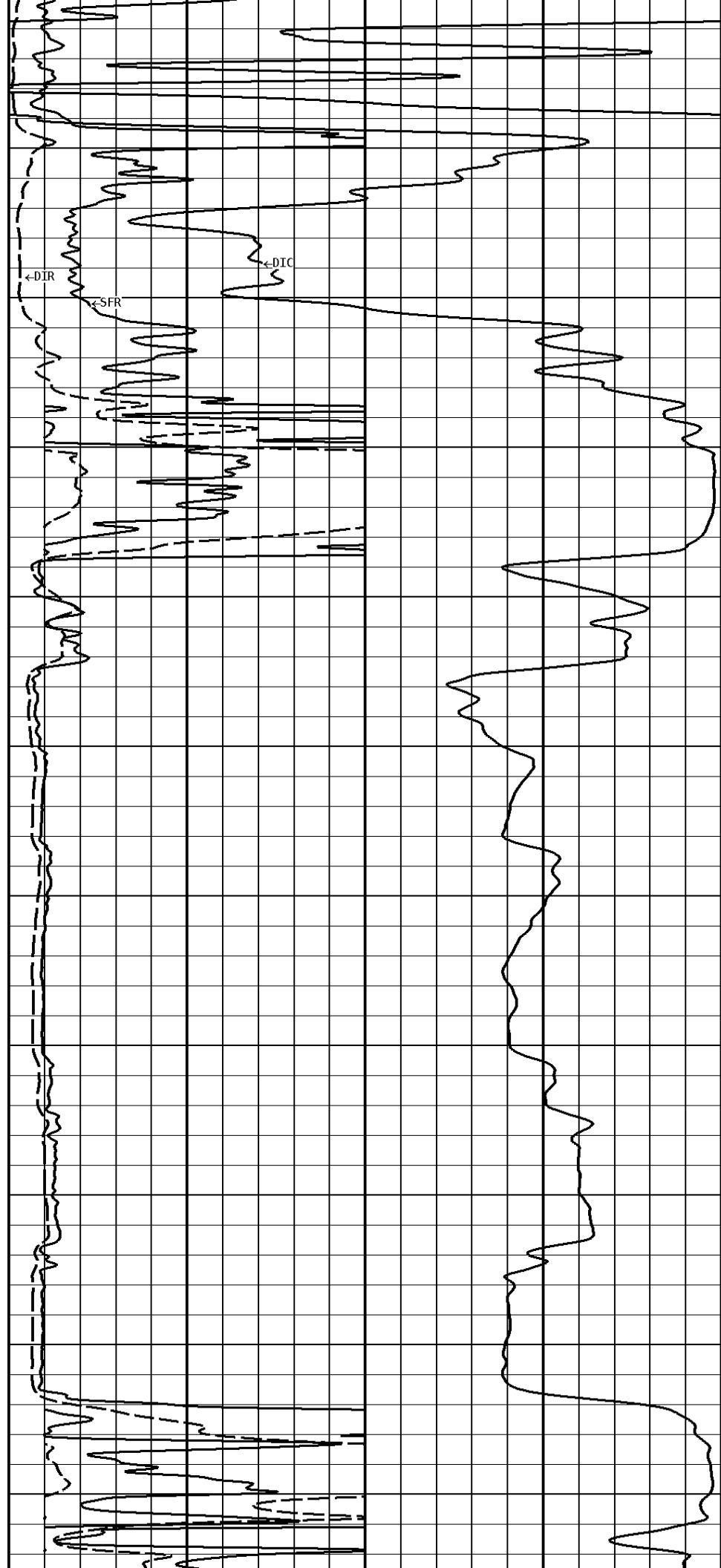
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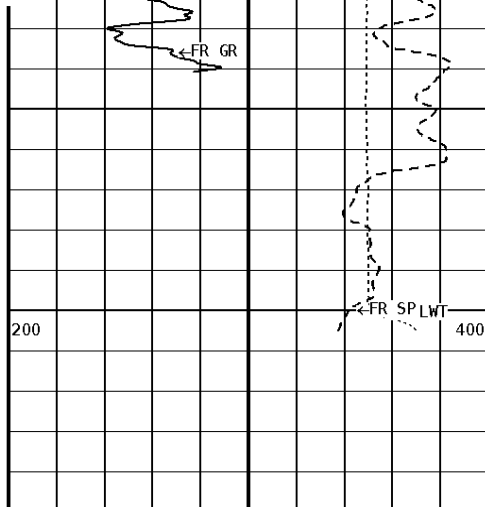
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3200

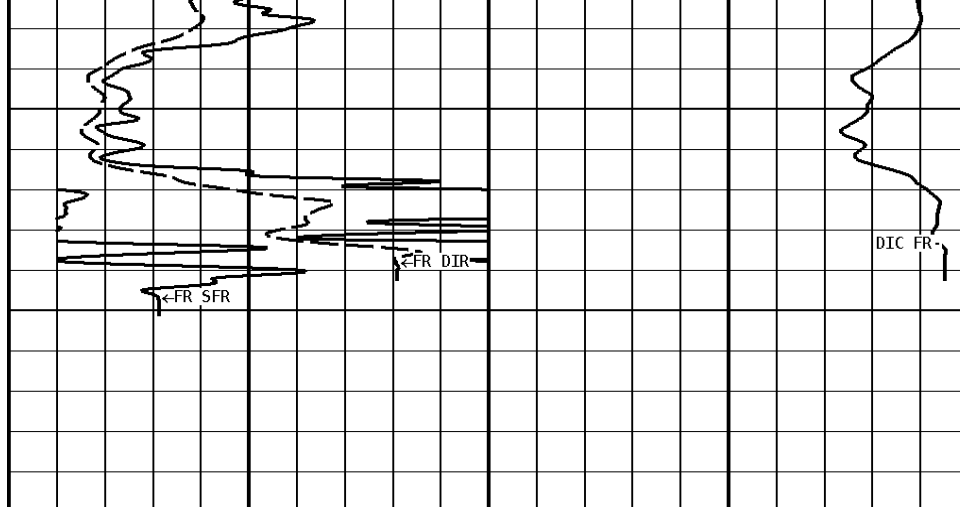
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3400



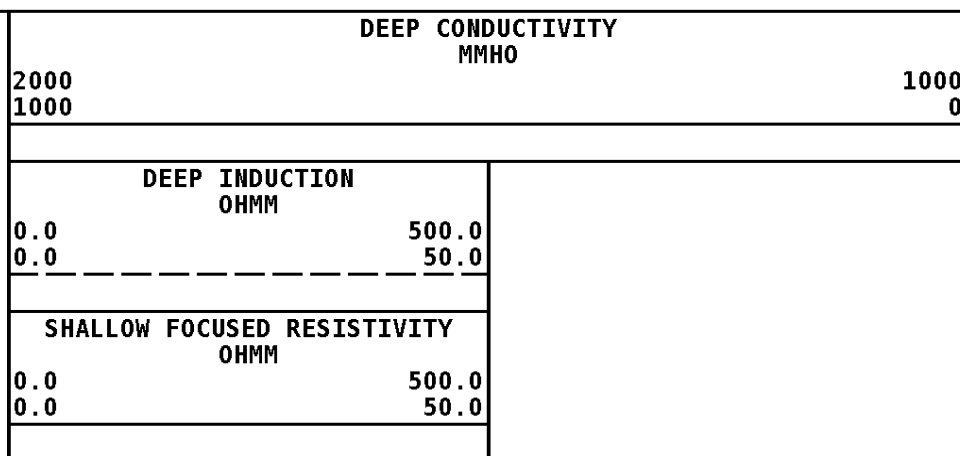
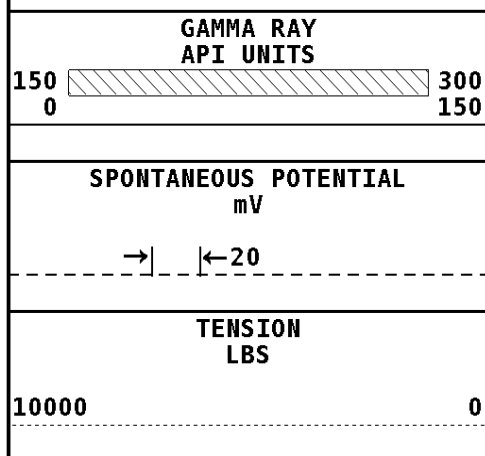


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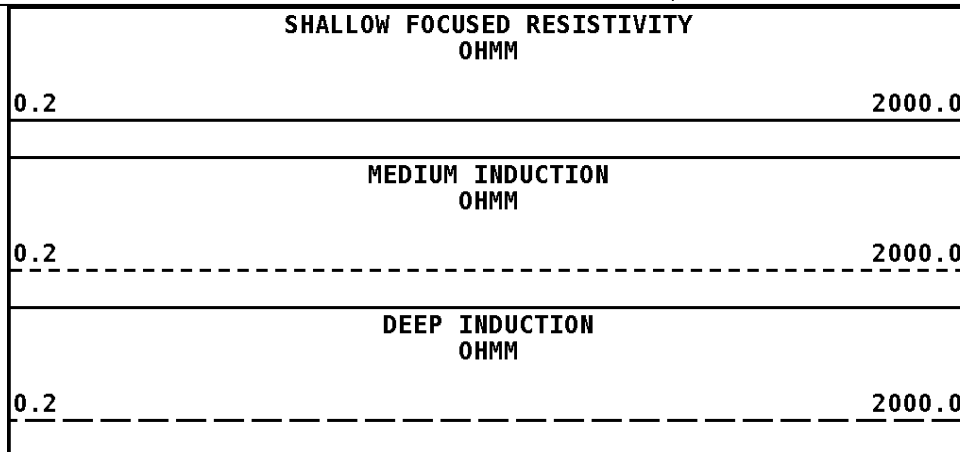
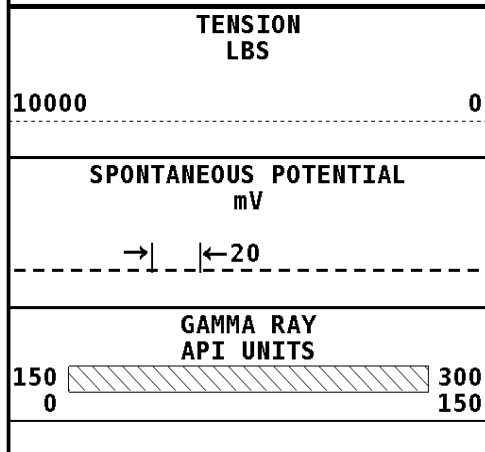


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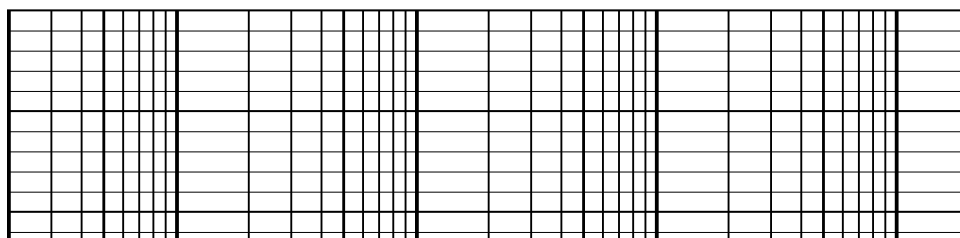
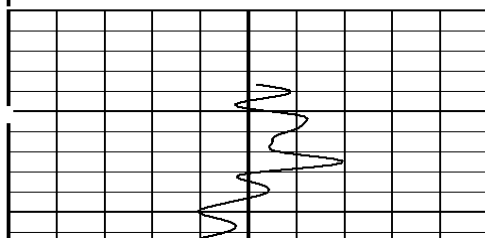
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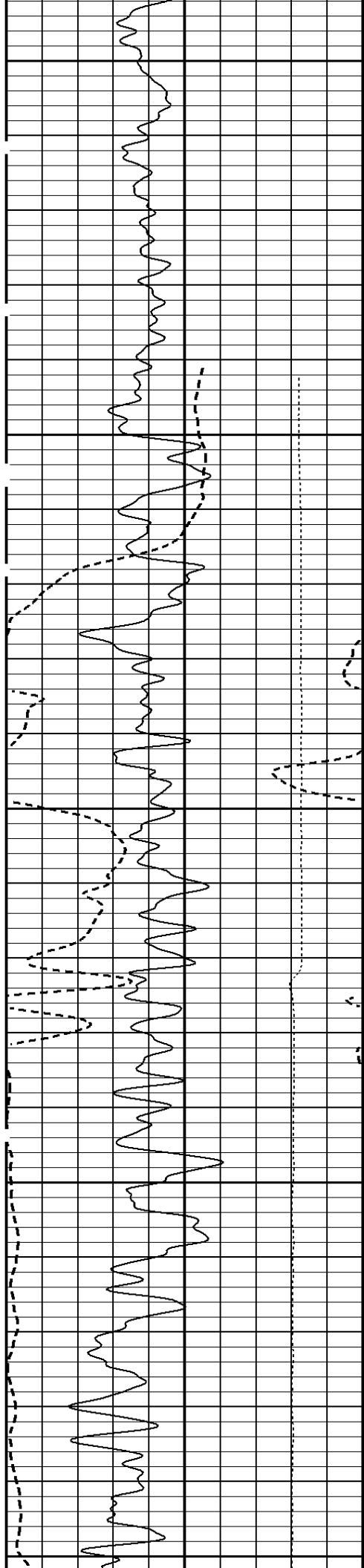


Well File: AMERICAN MASTRE 1-11 APR 15 QUINT	Scale: 1:240
Segment: V1.D1.S5 MN_REPRO	Acquired: 2011-05/15 13:46 3.2.0-9901
Reference: 0	Processed: 2011-05/16 10:00 3.2.0-9901



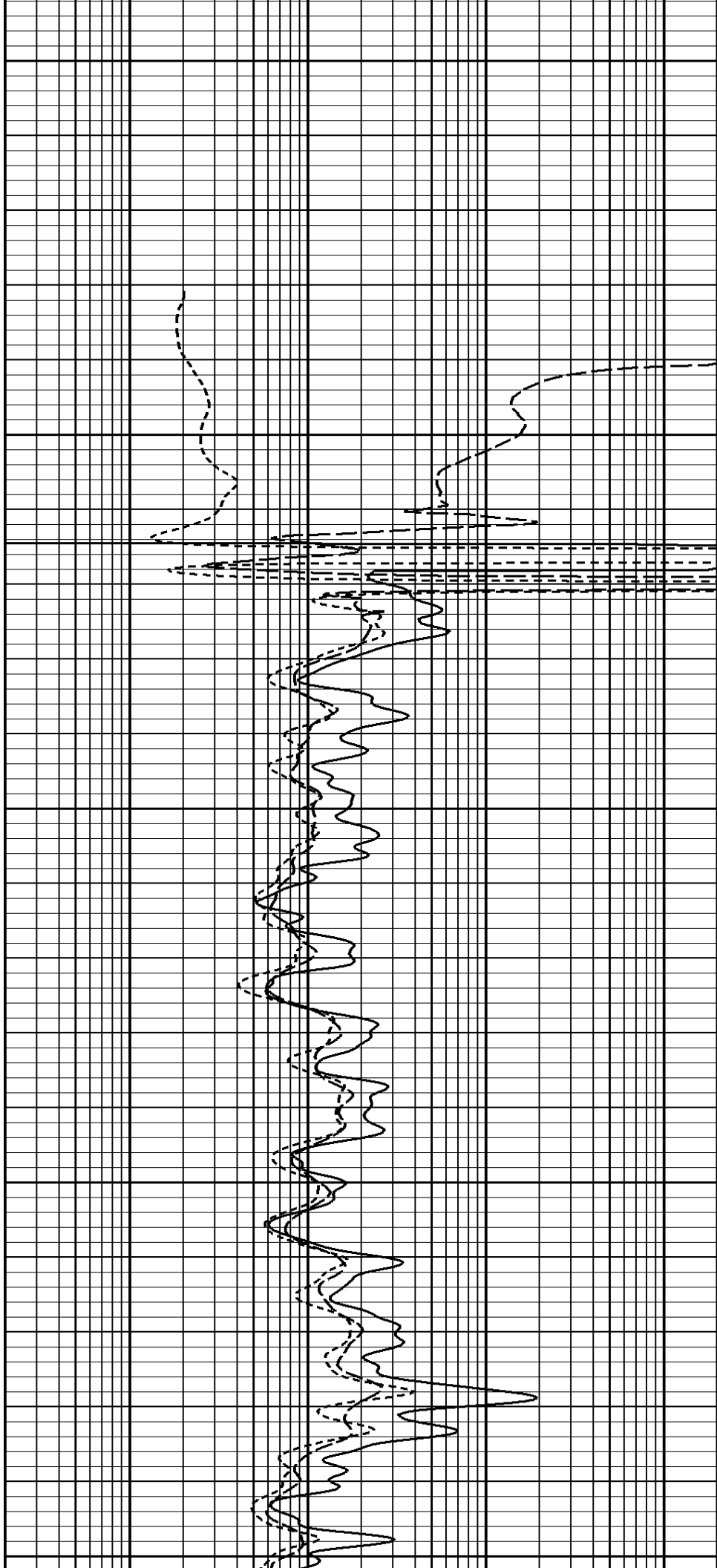
1:240 MAIN SECTION

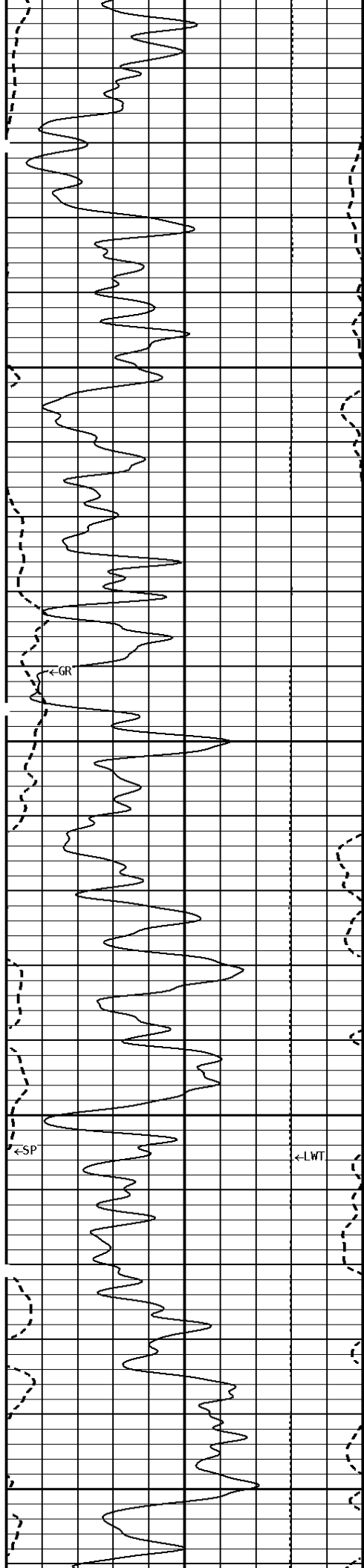




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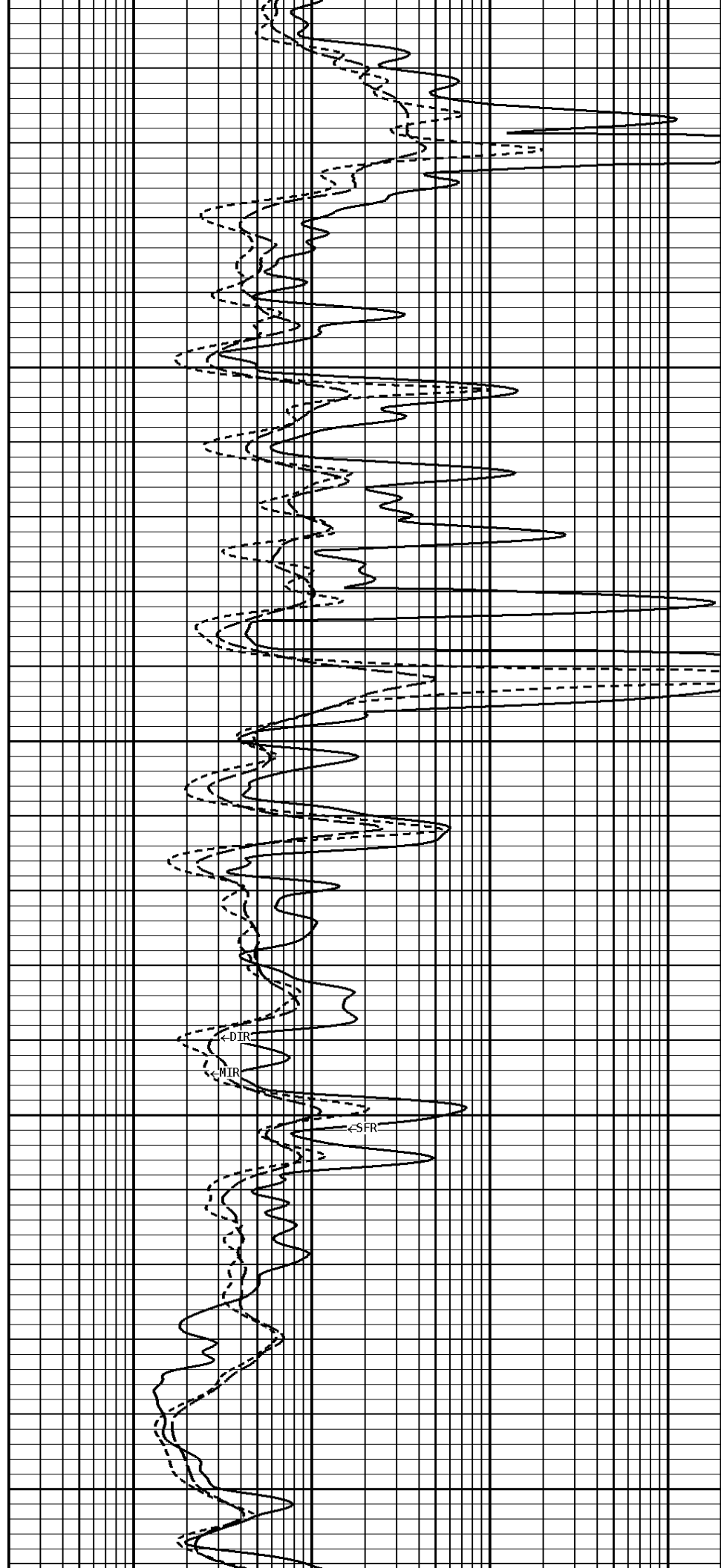
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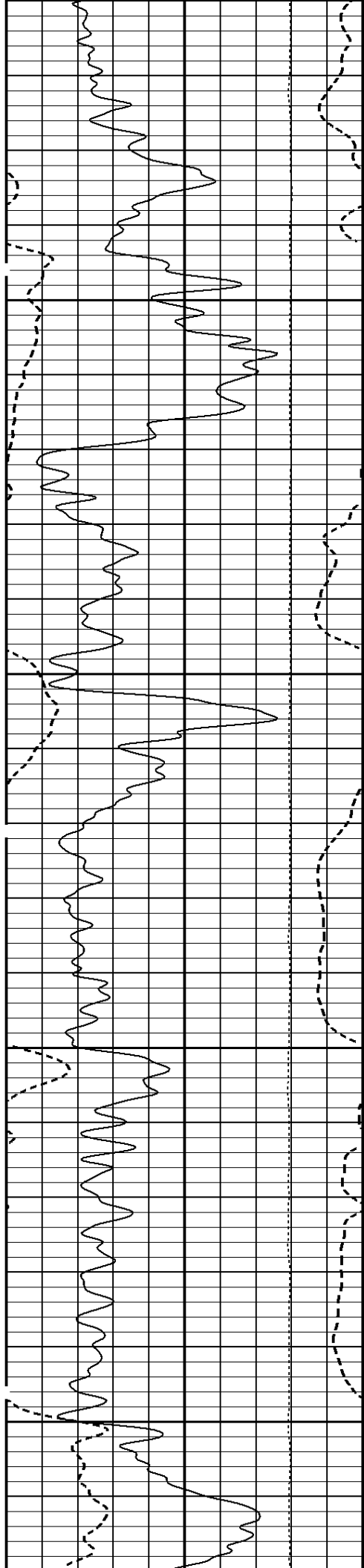




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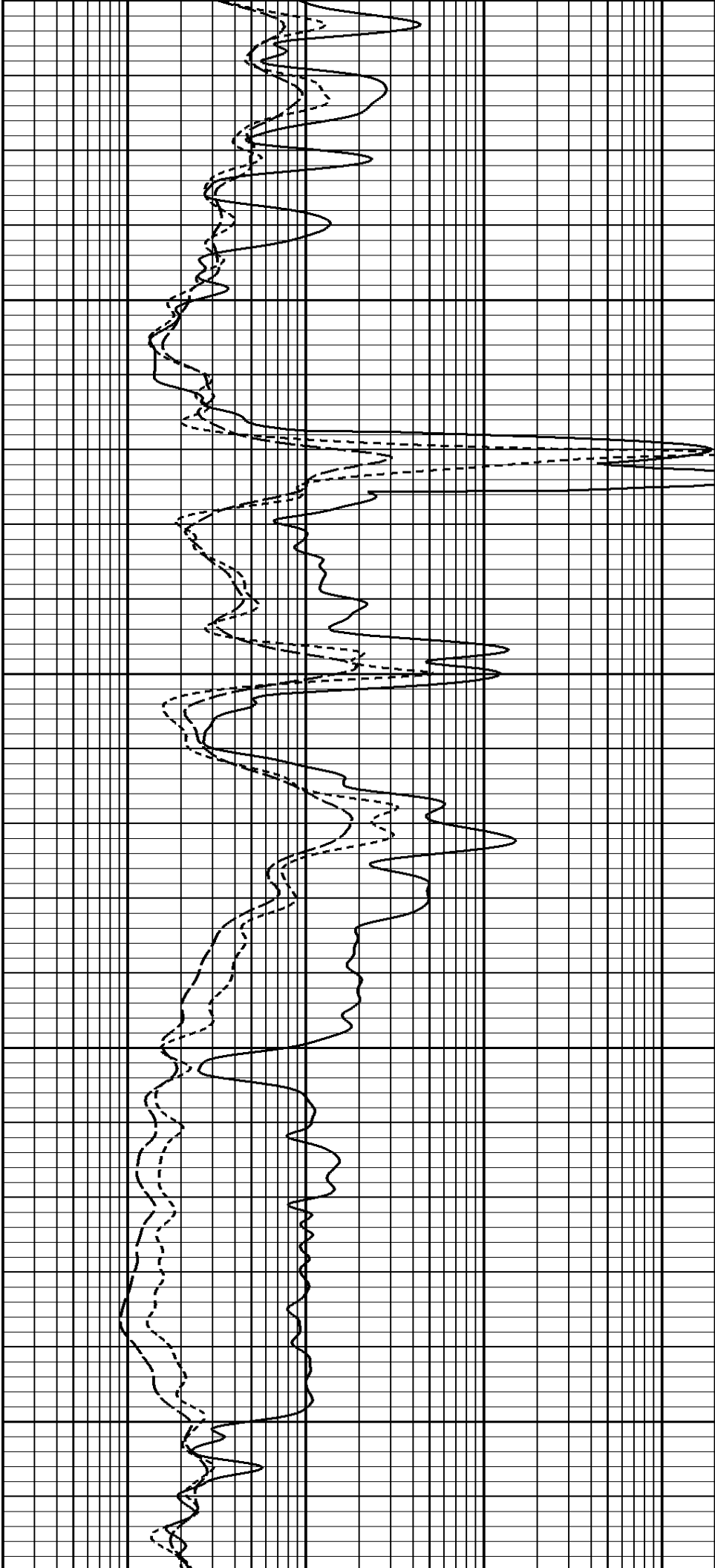
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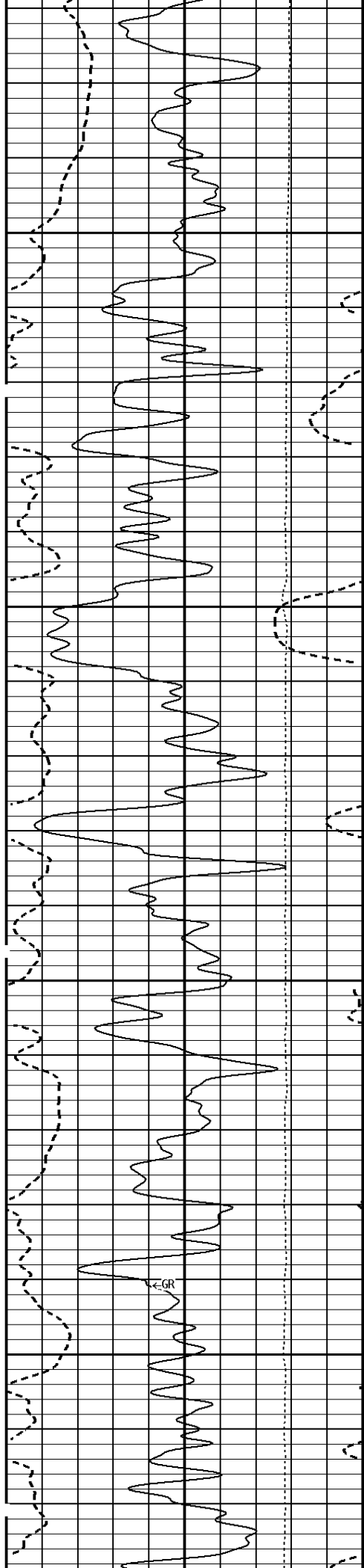




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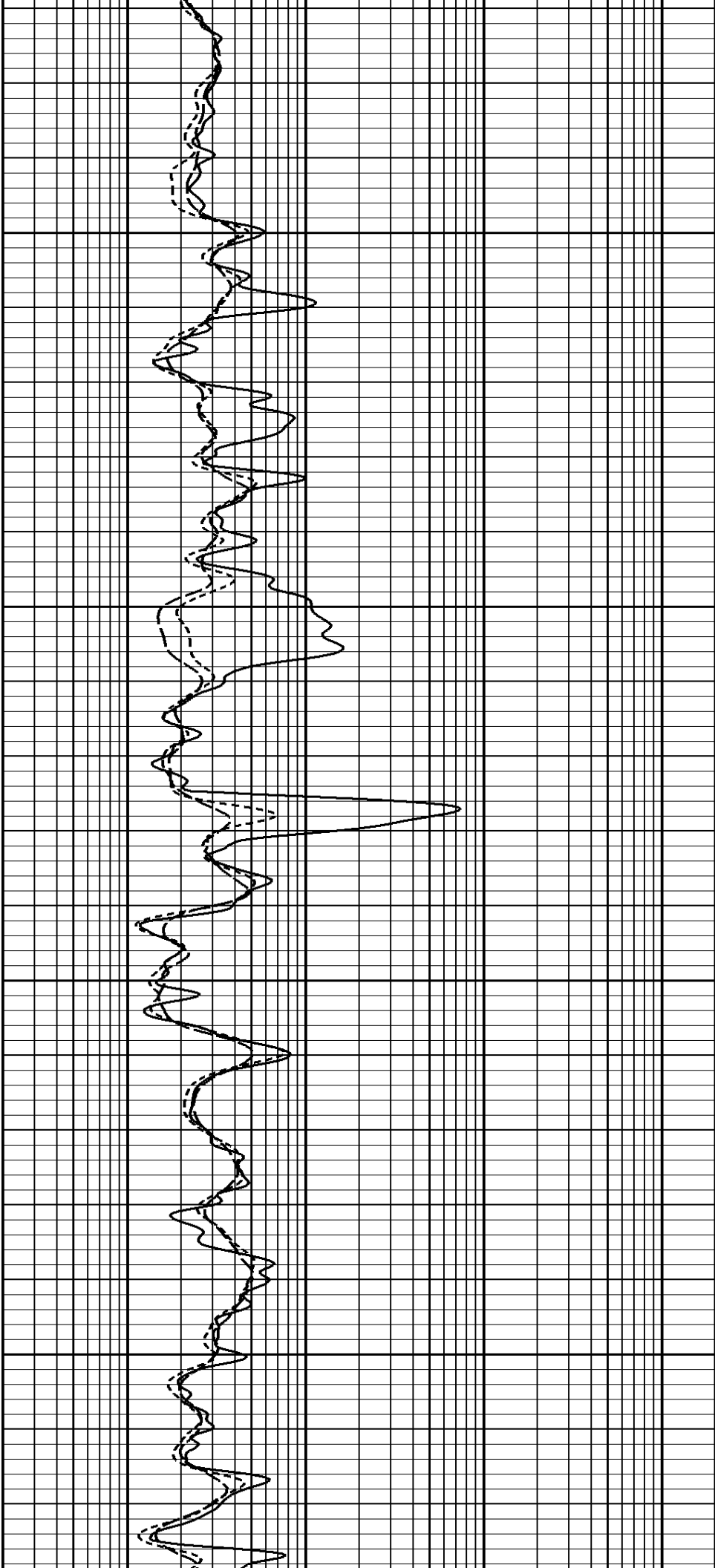
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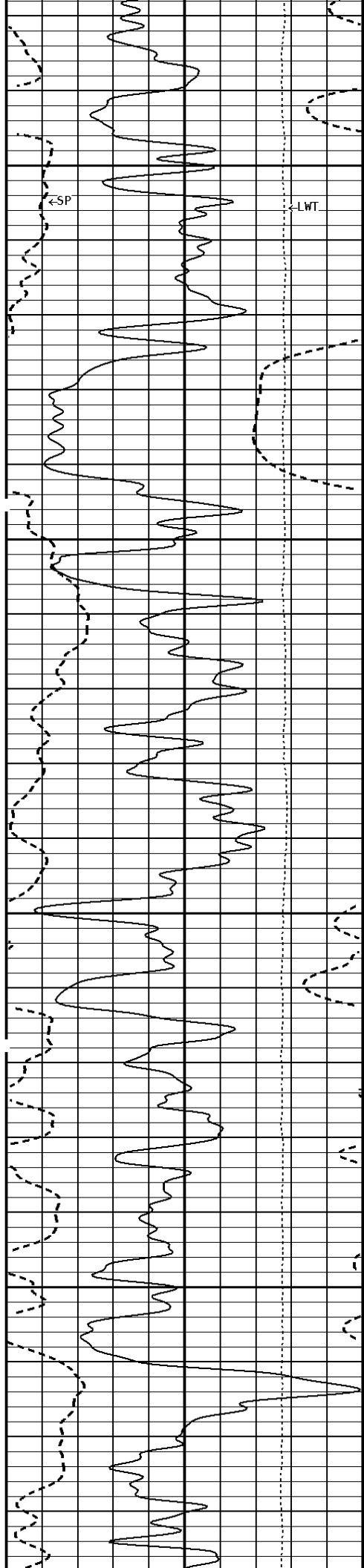




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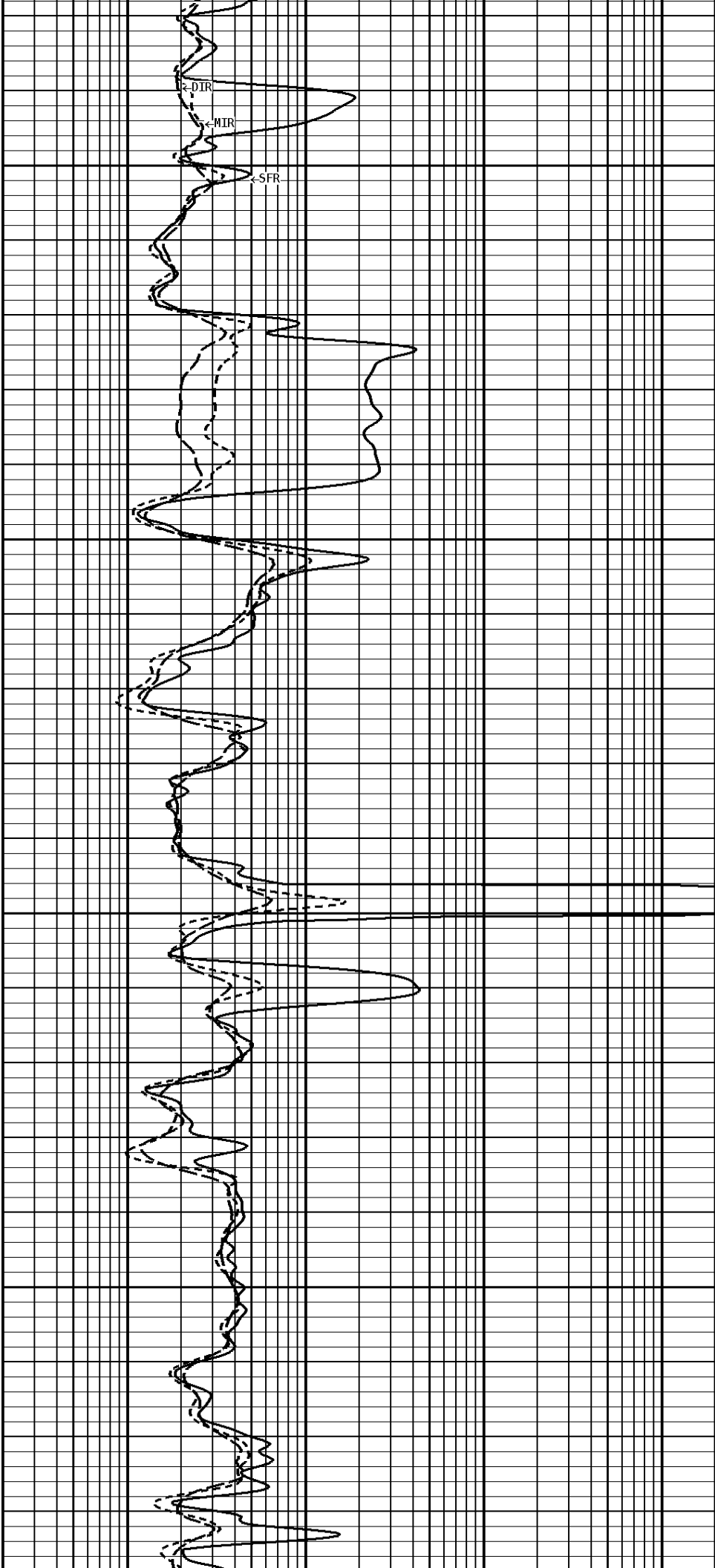
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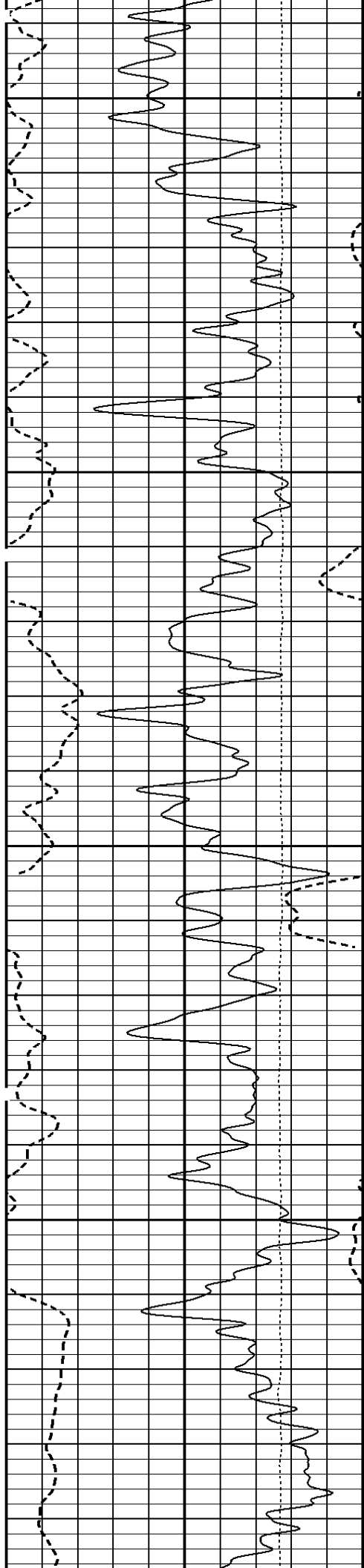




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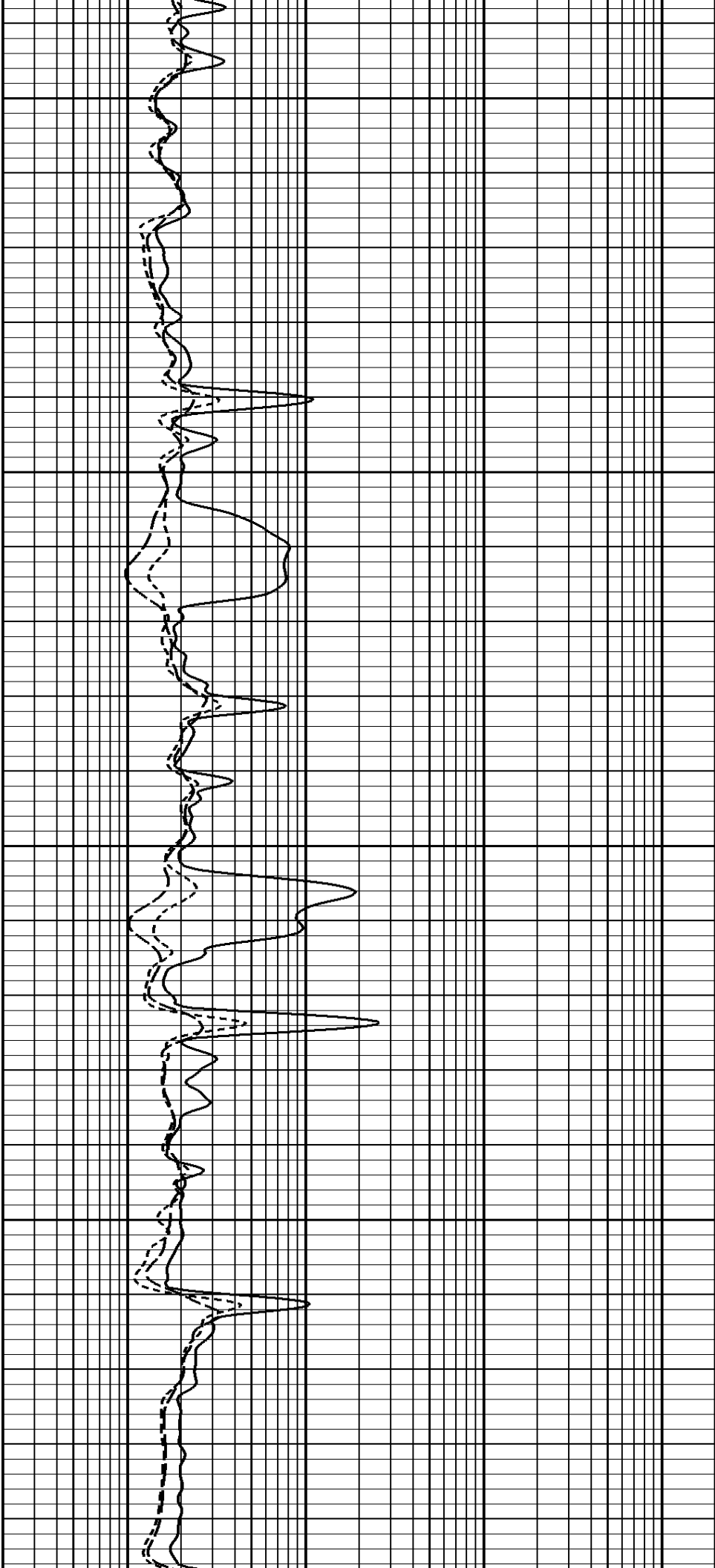
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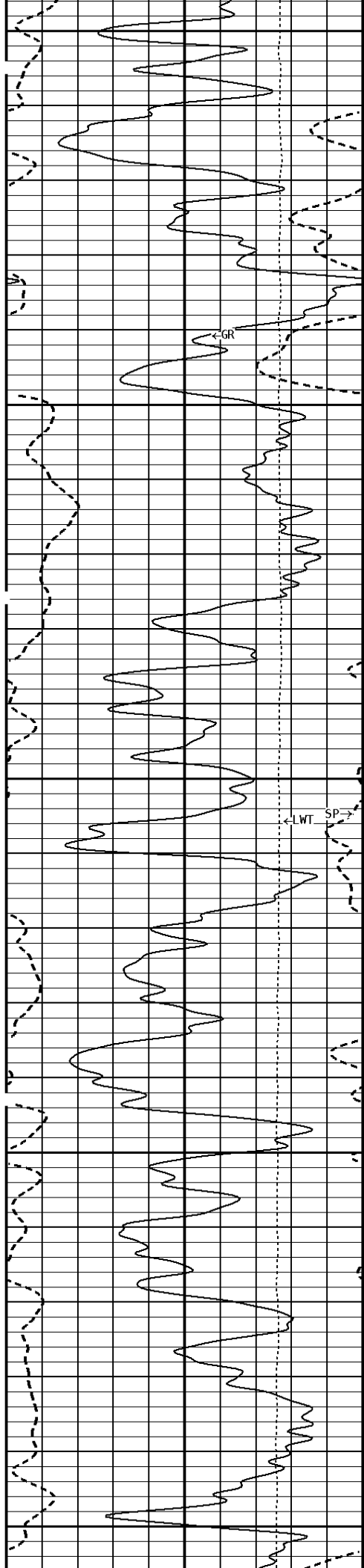




1200

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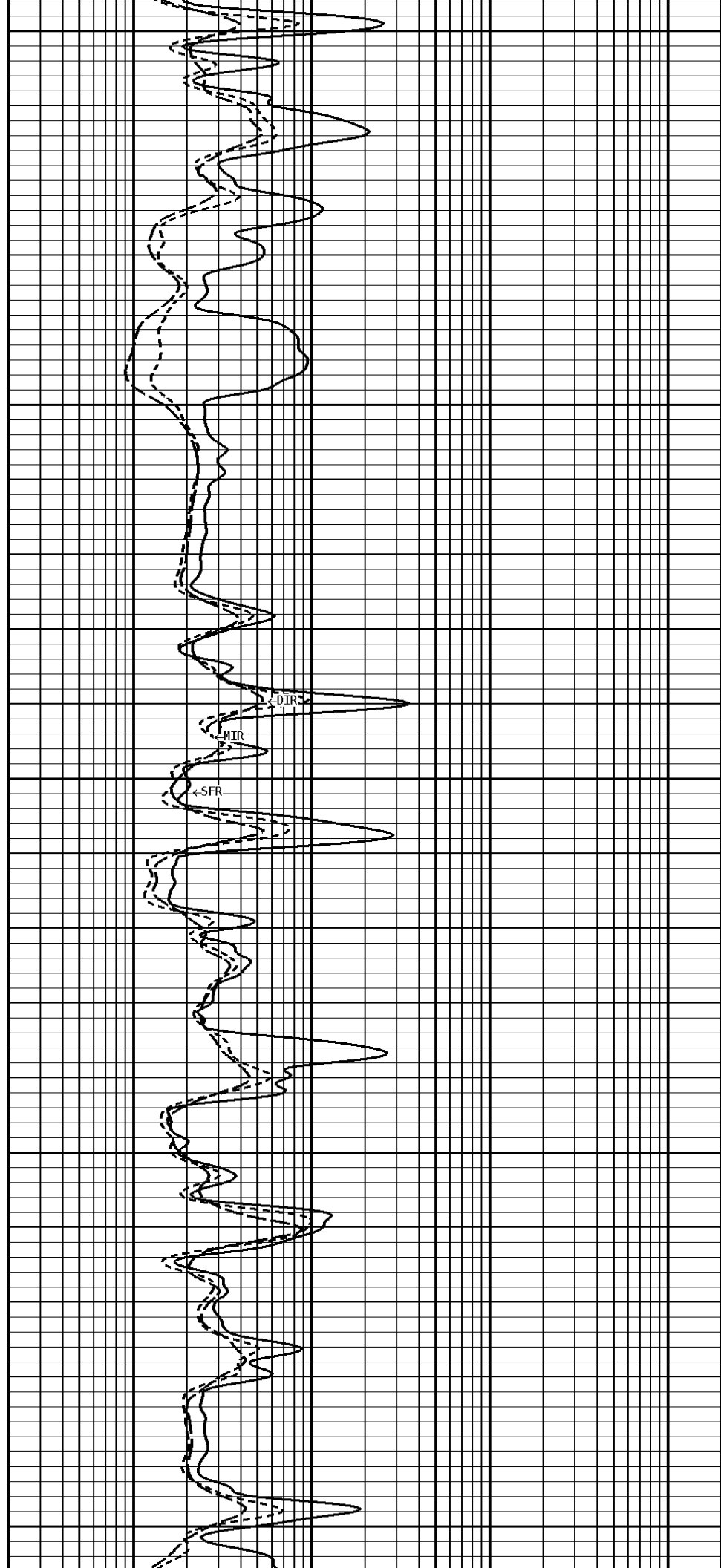


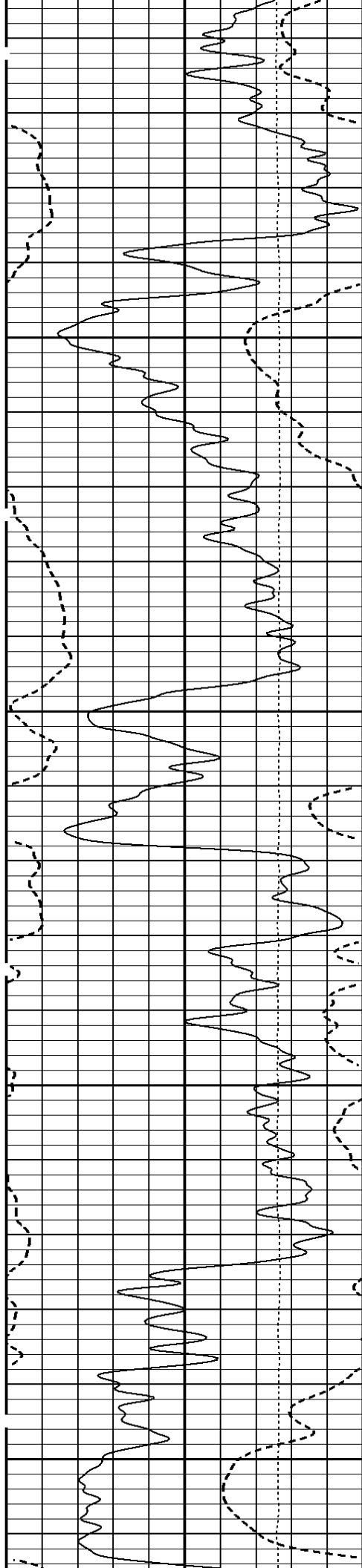


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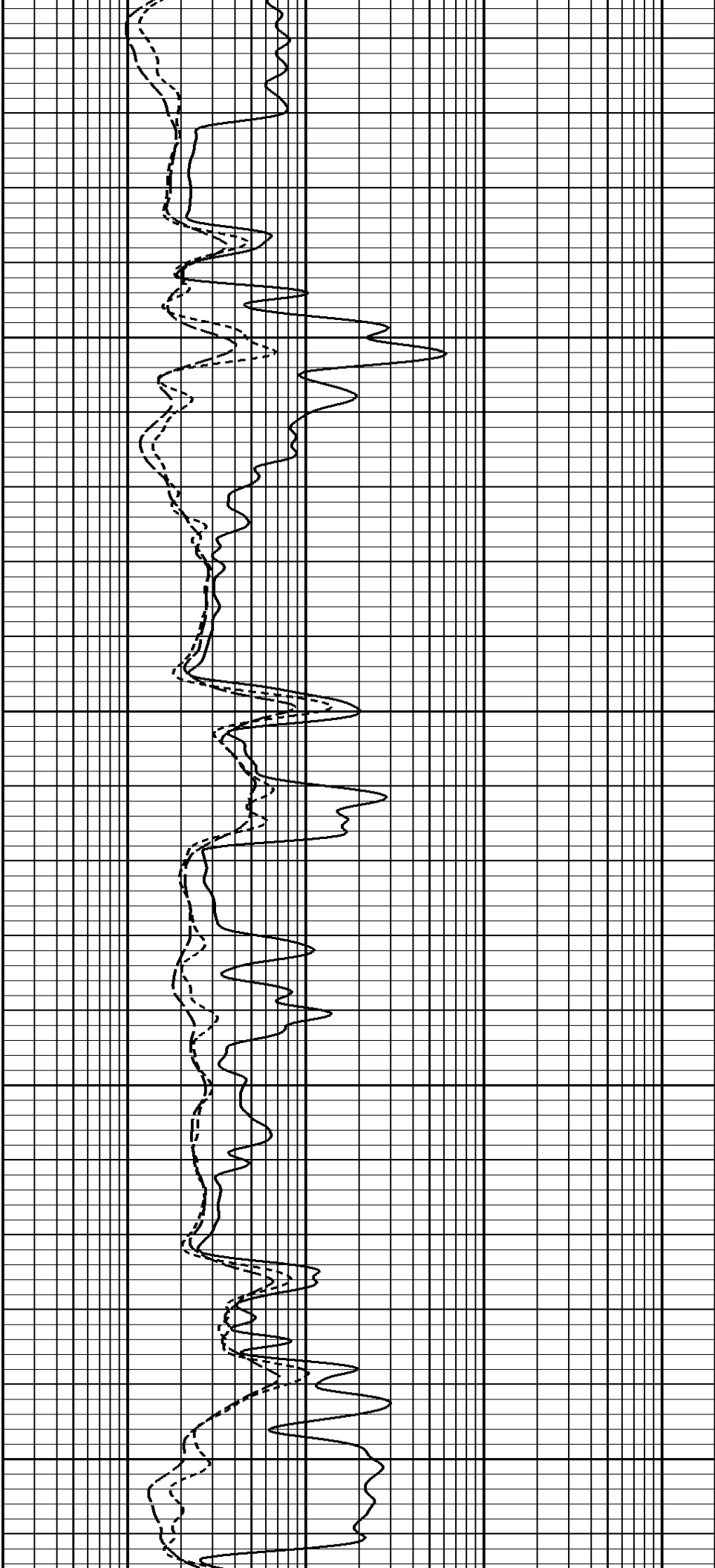
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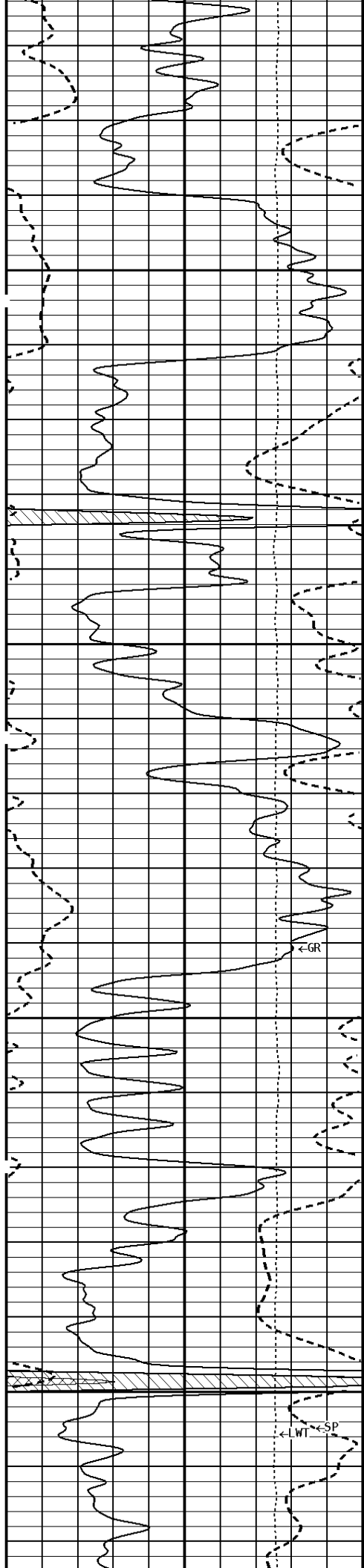




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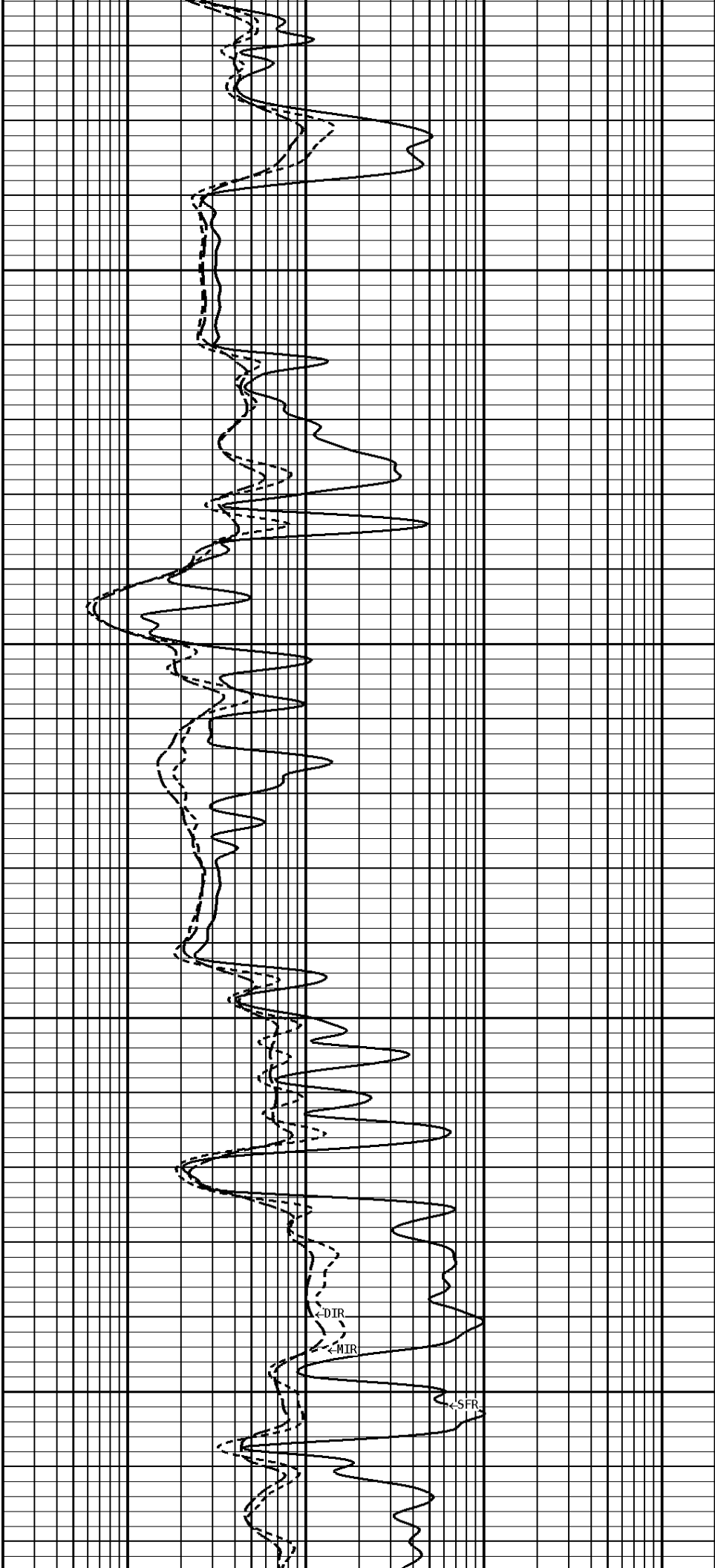
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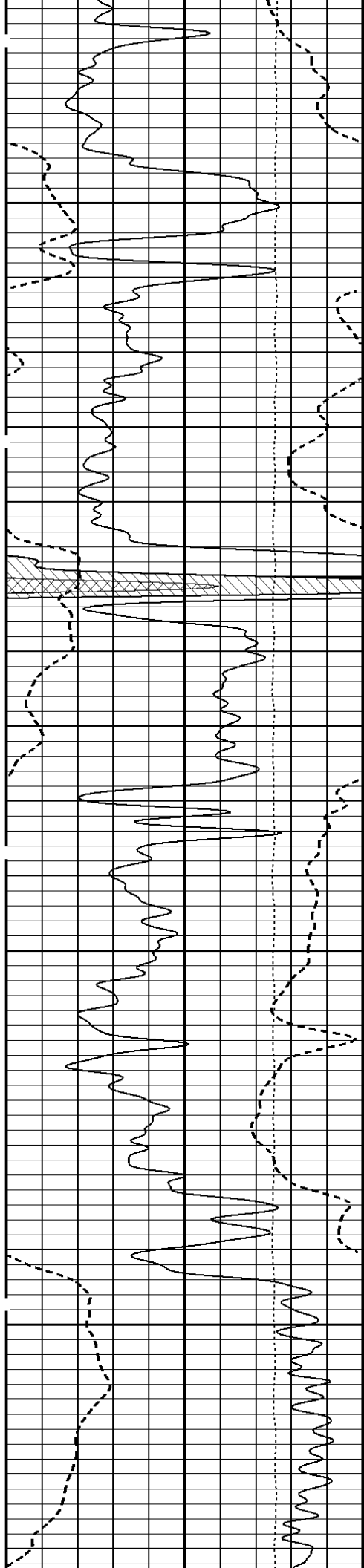




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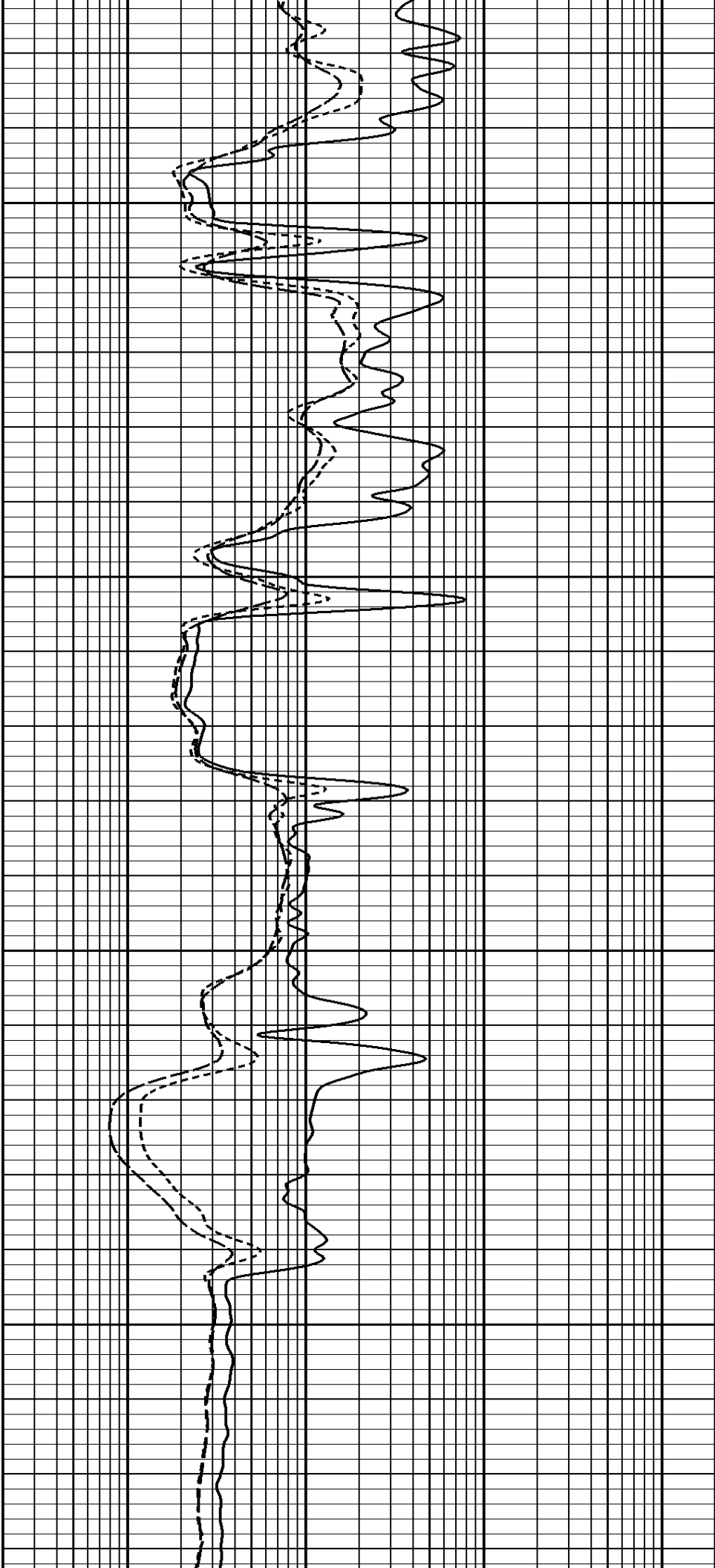
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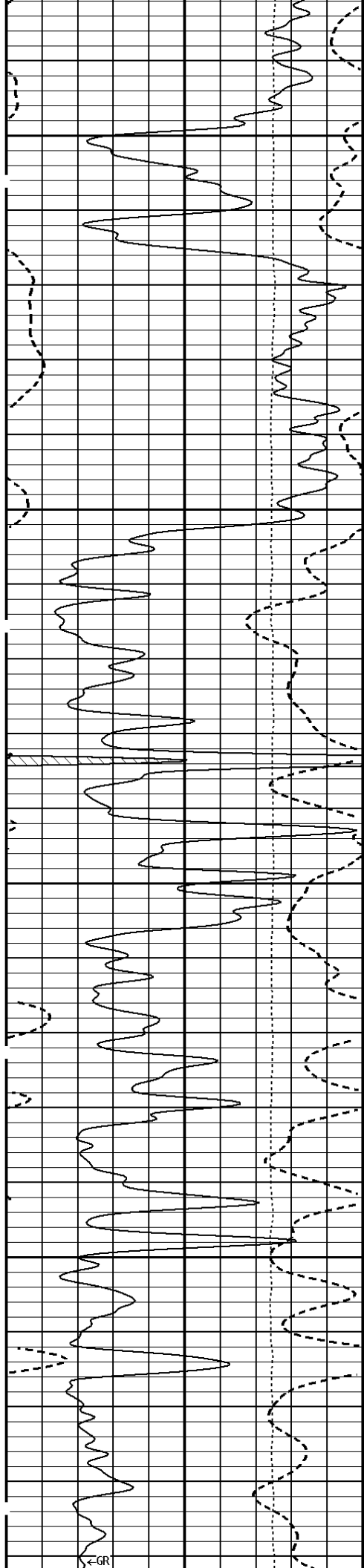




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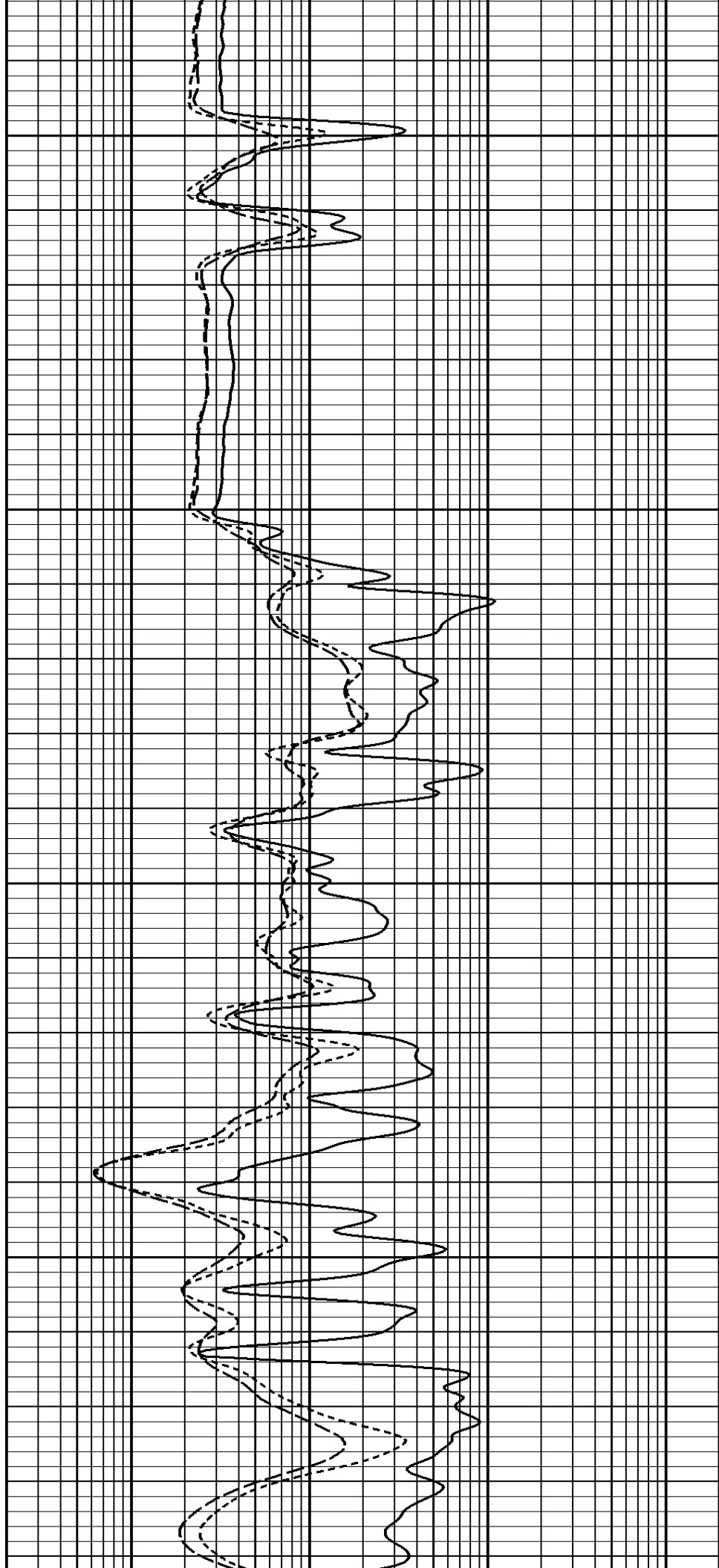
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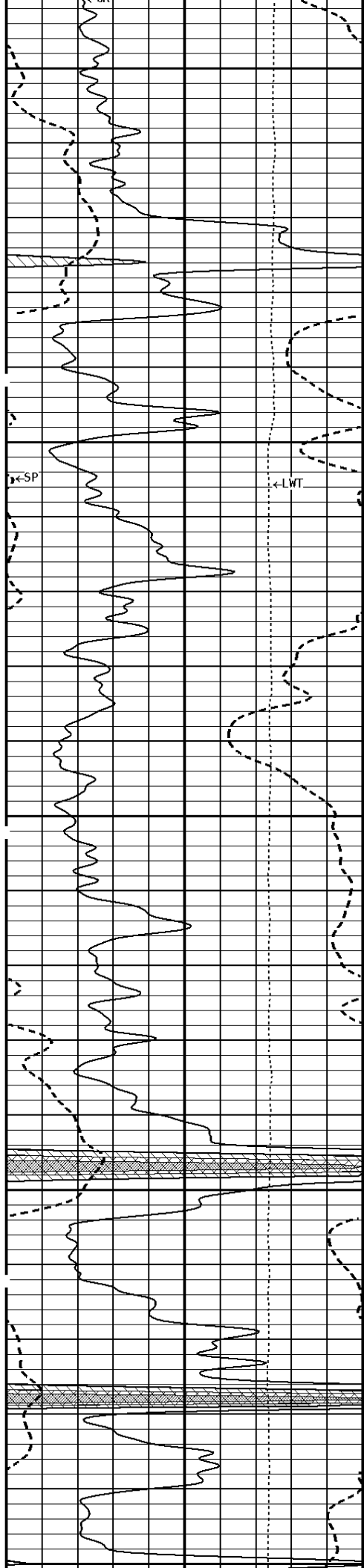




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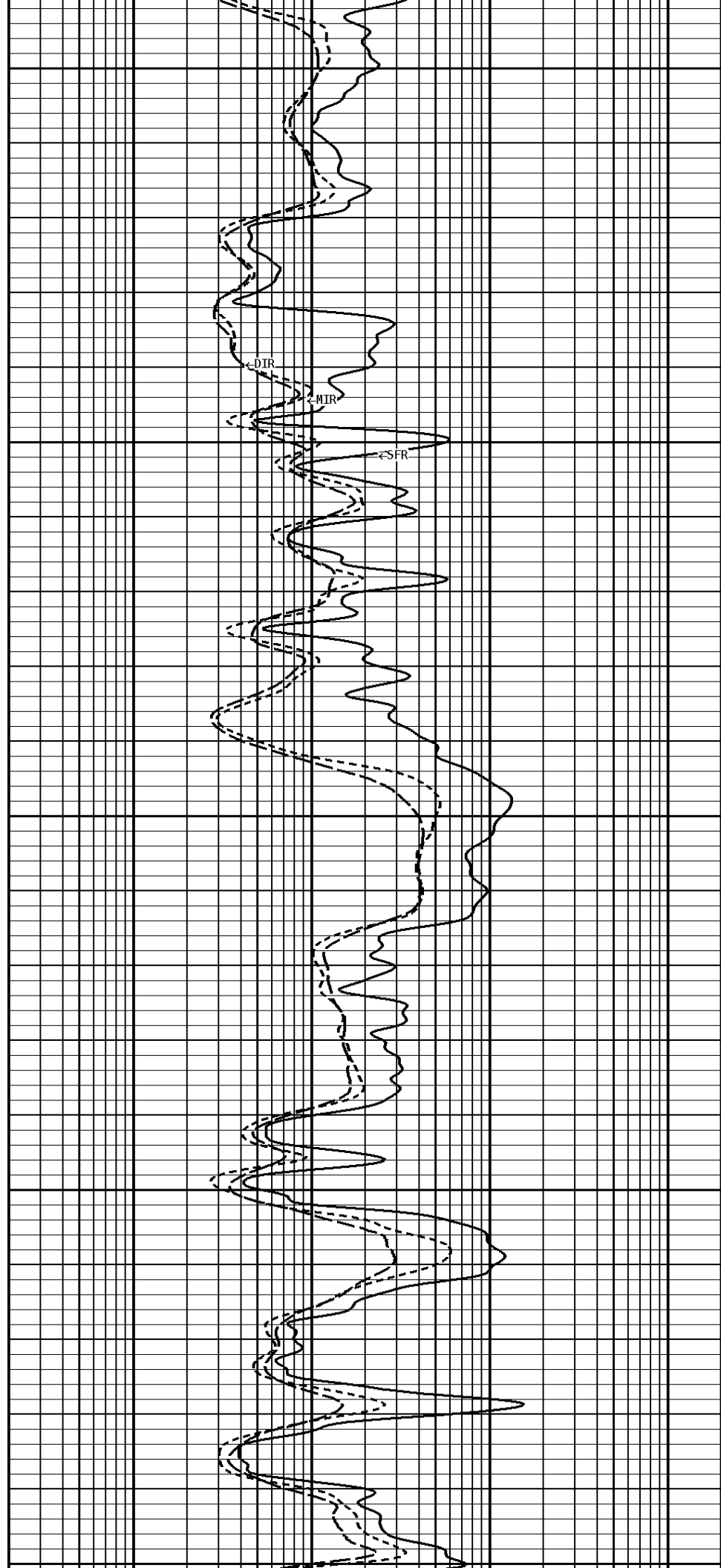
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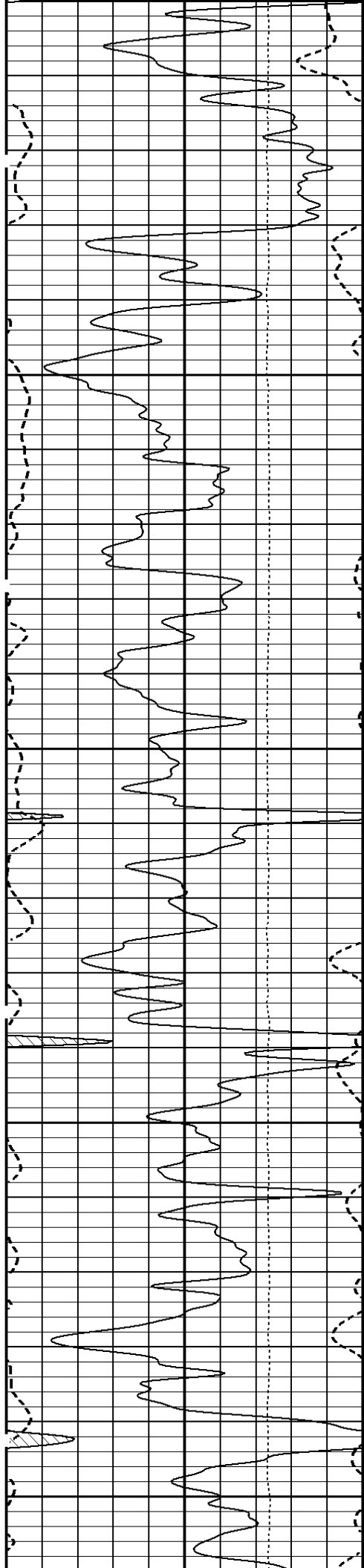




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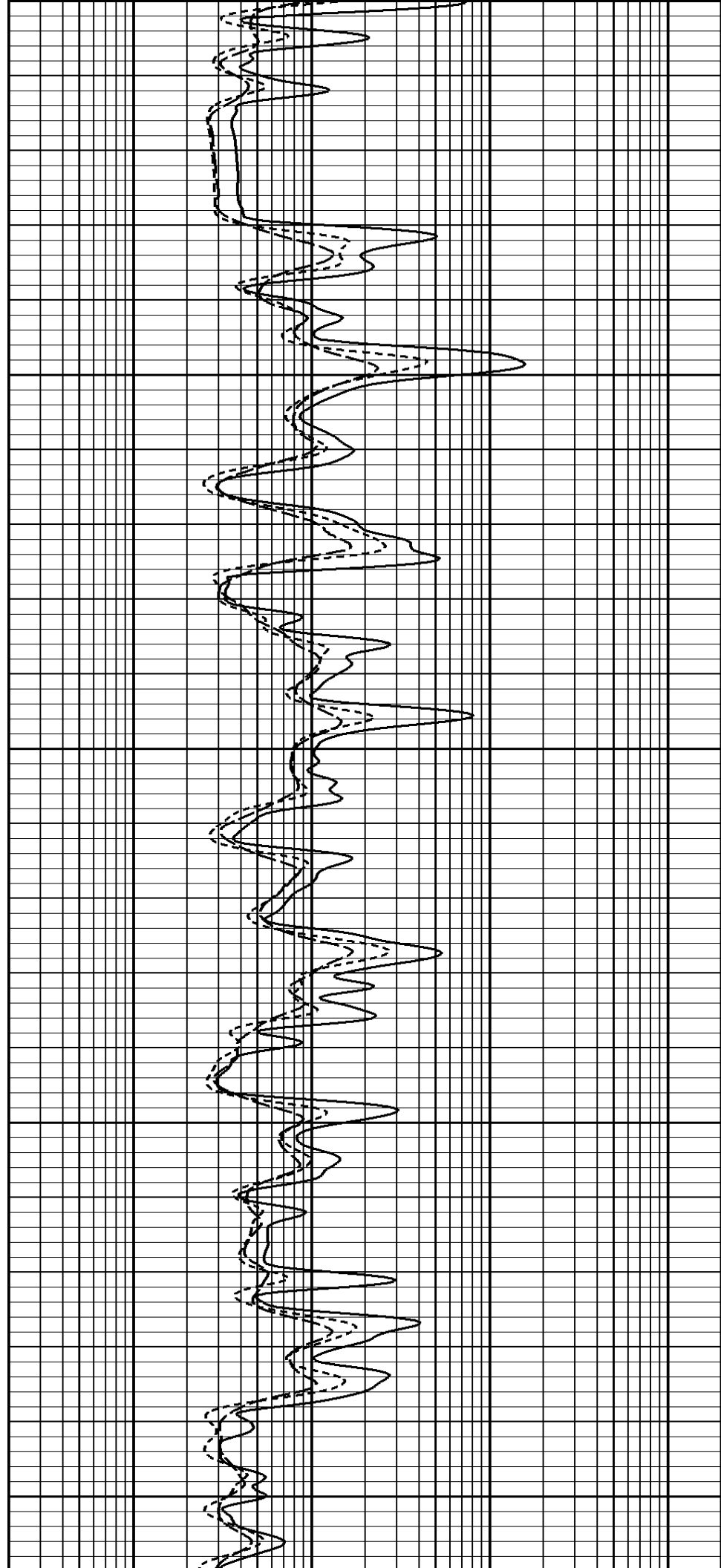
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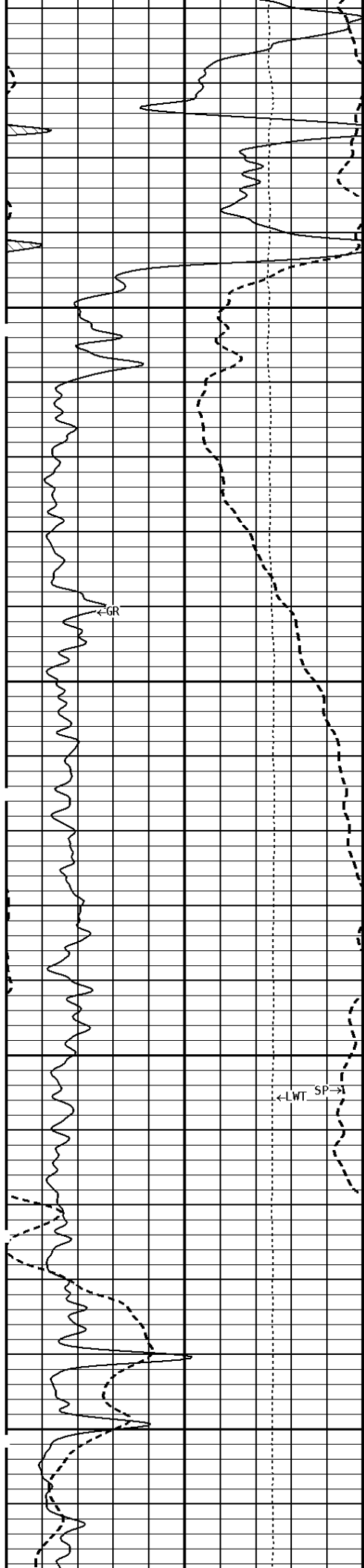




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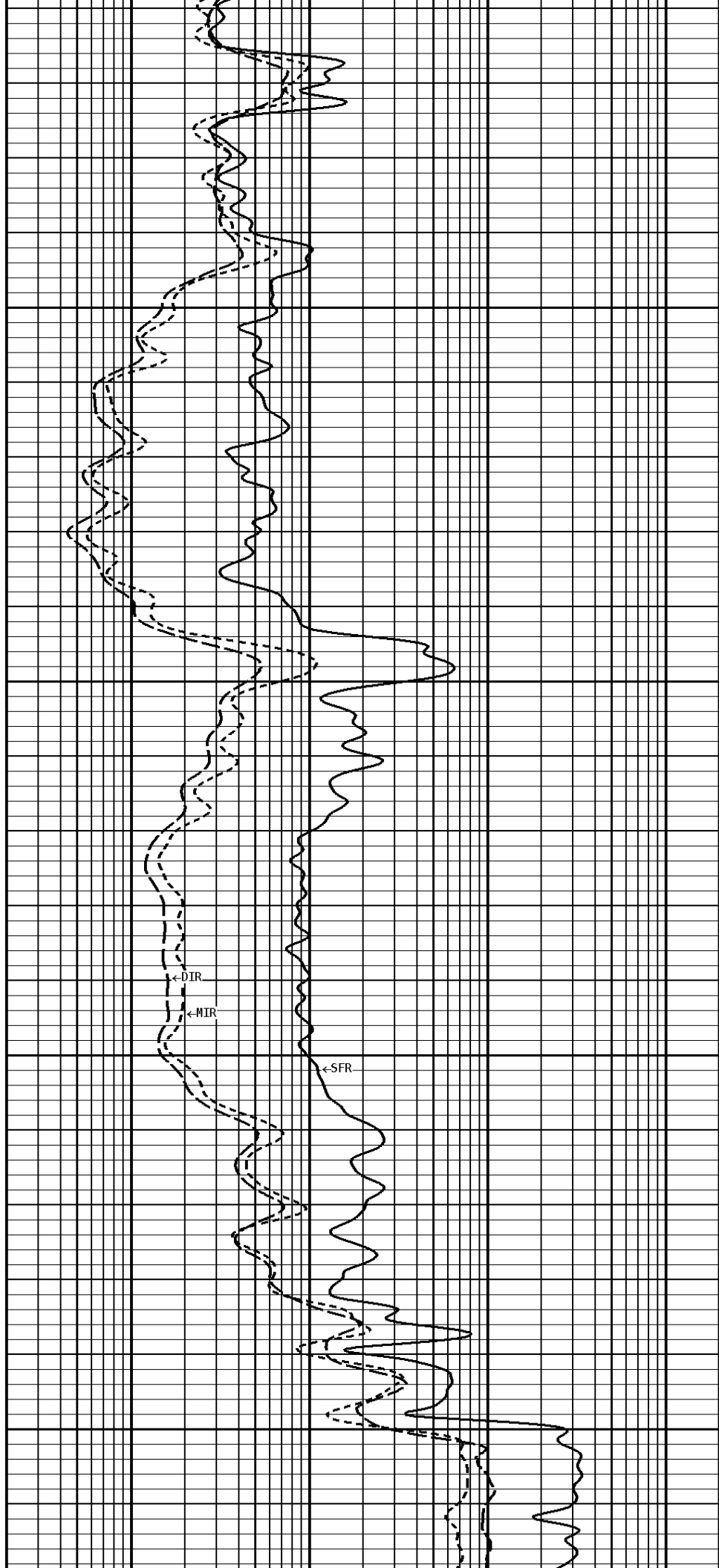
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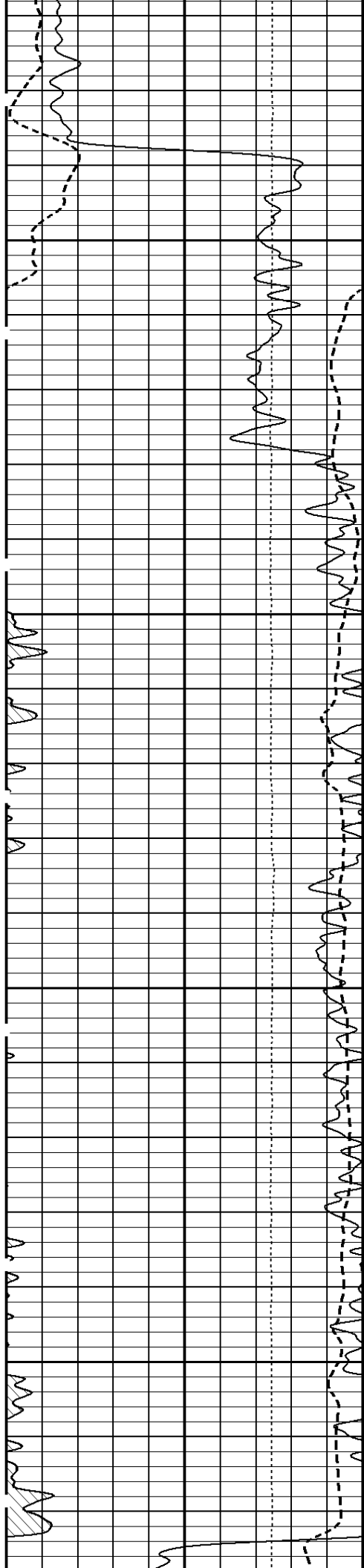




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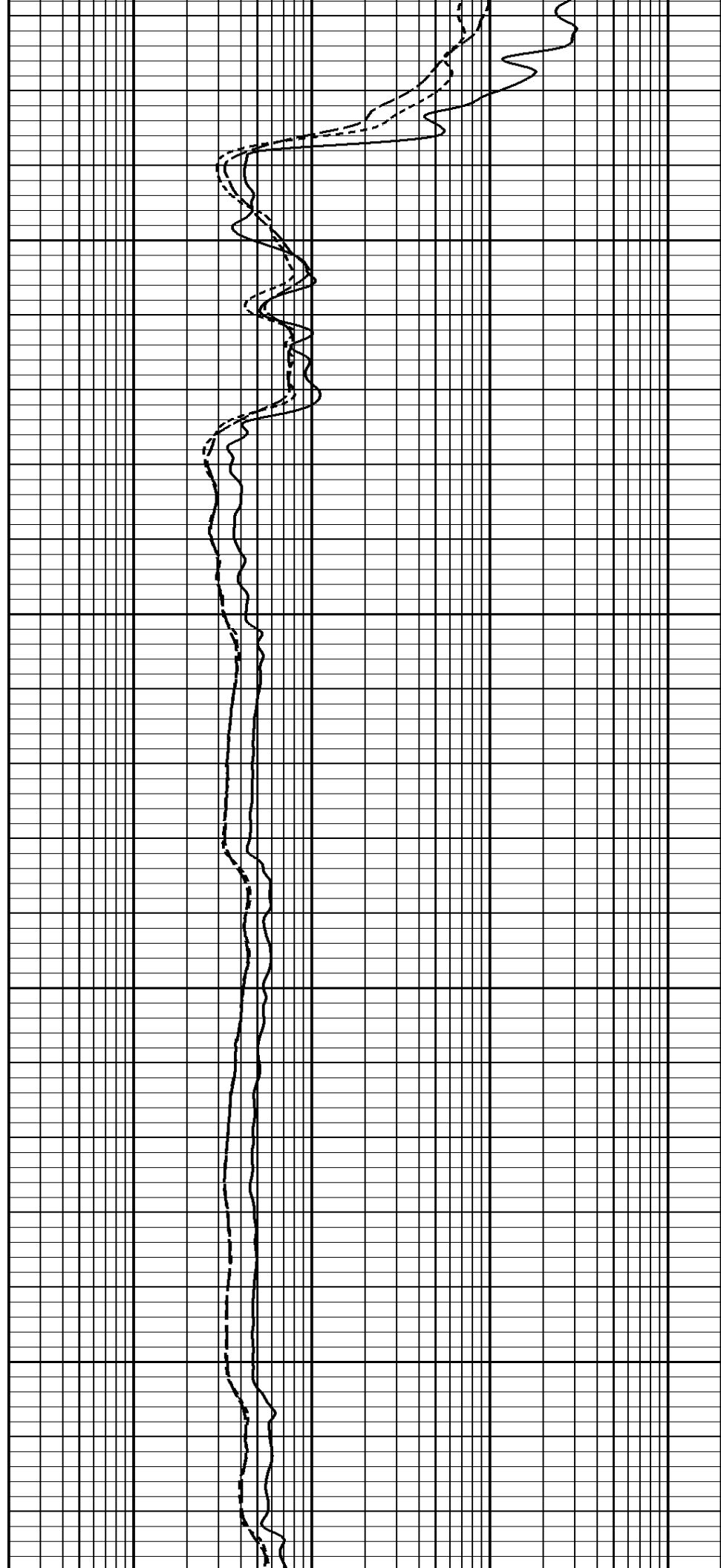
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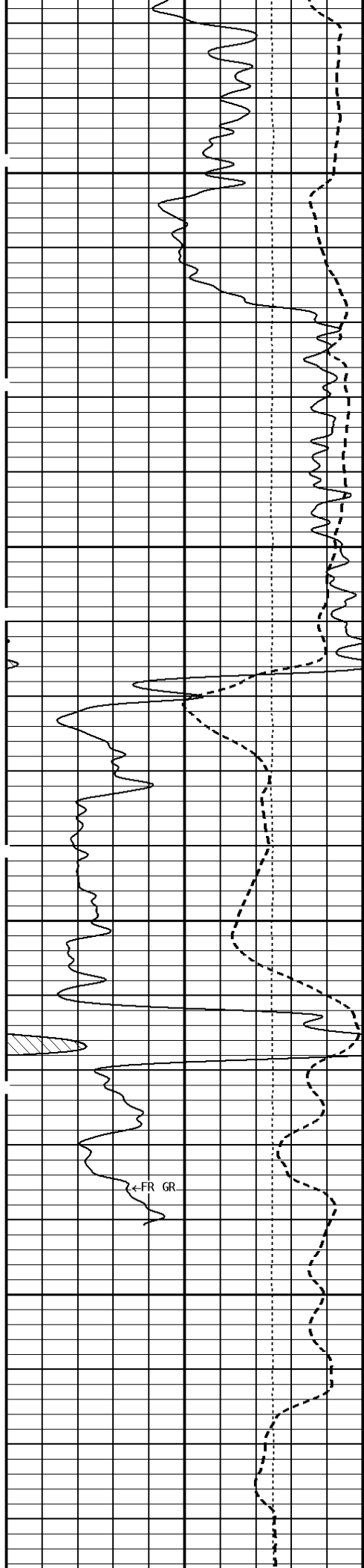




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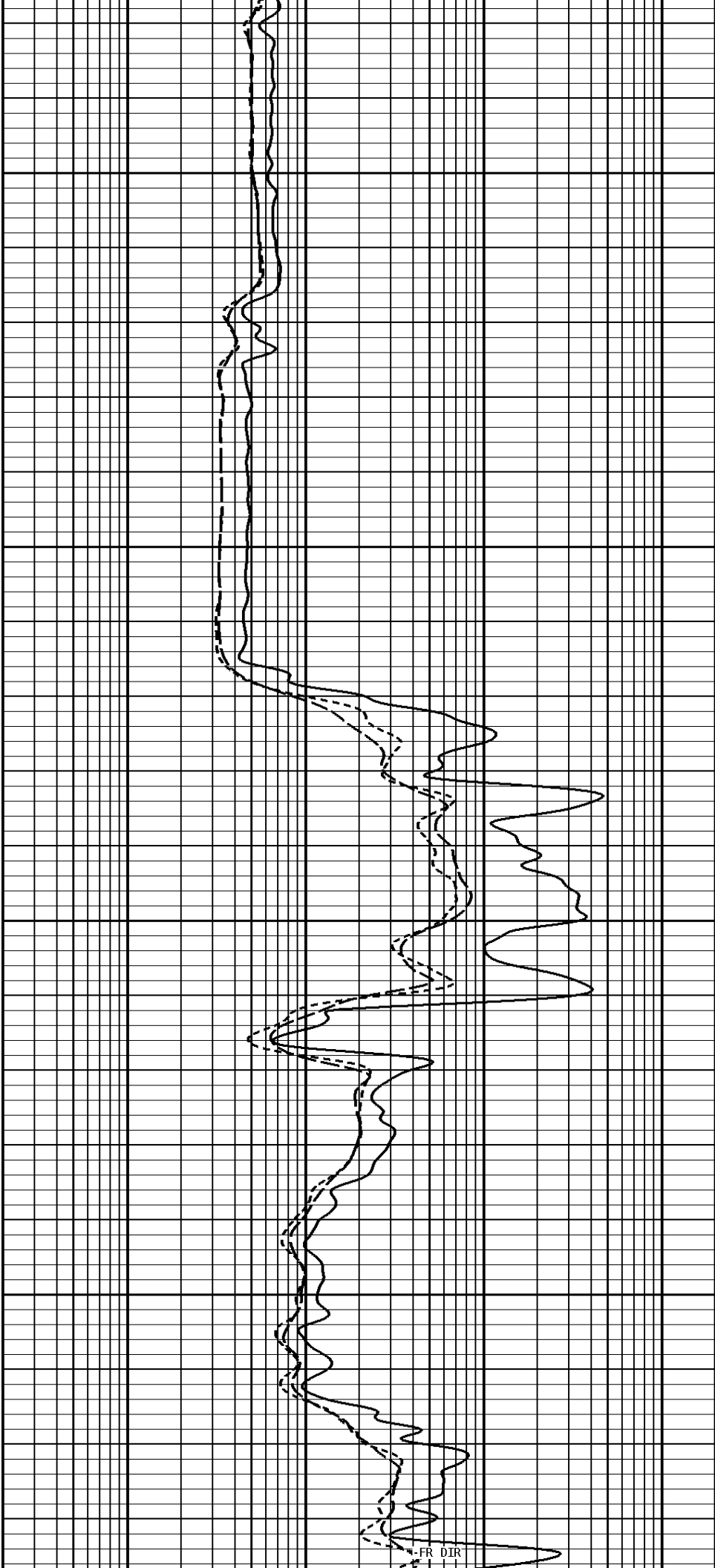
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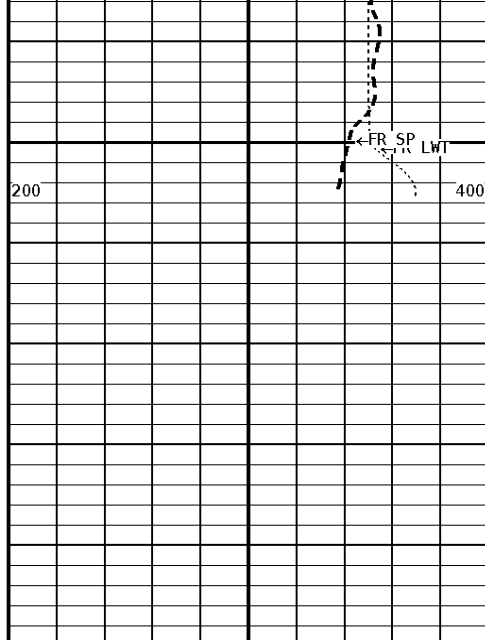




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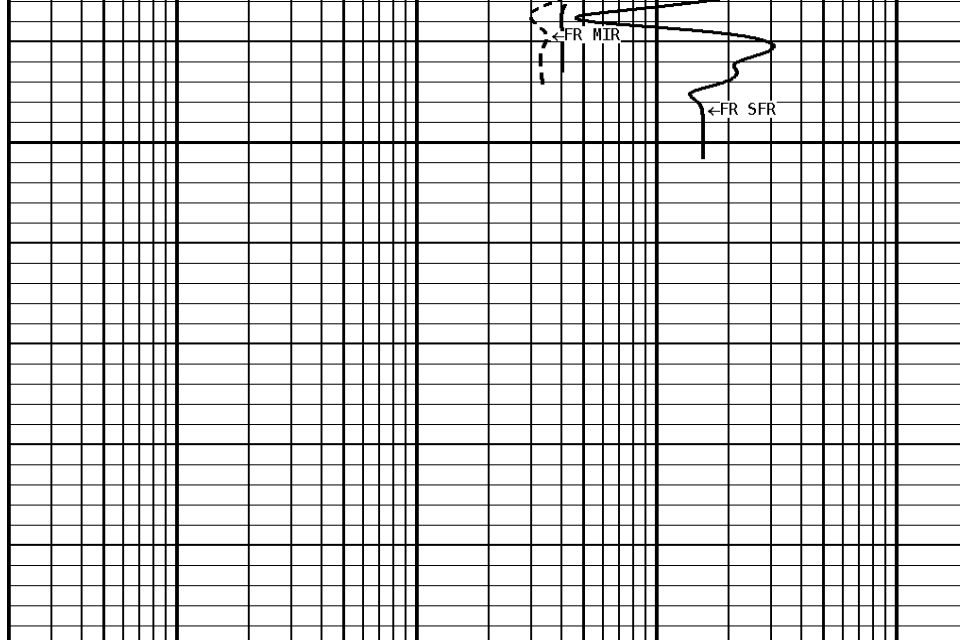
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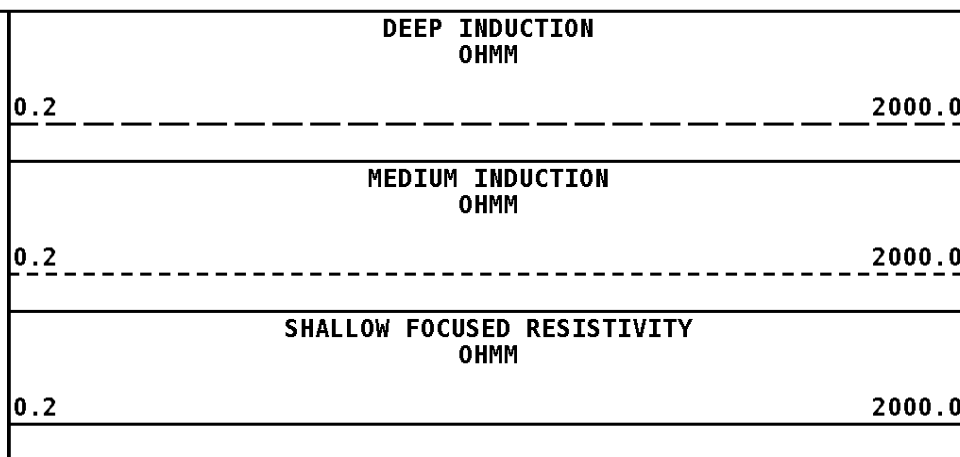
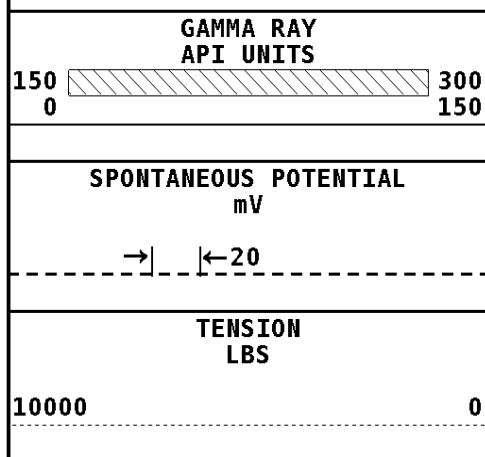


3500

File #1.1.5



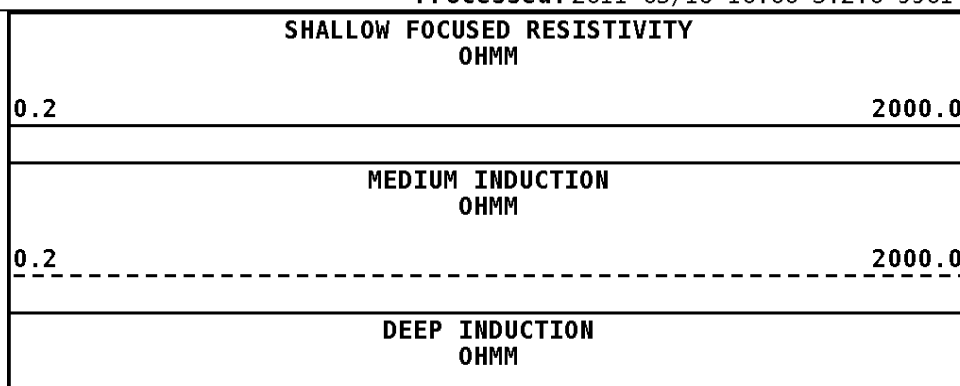
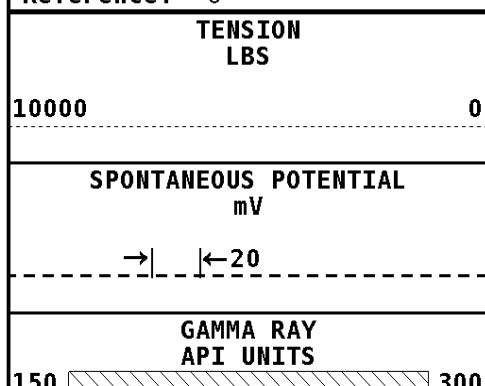
1:240 MAIN SECTION



* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	7.875	in
BHT Depth	3500.000	ft
Borehole Temperature	122.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	3.000	ohm/m
Standoff	1.5	
Resistivity Of Mud Temperature	50.00	degF

Well File: AMERICAN MASTRE 1-11 APR 15 QUINT	Scale: 1:240
Segment: V1.D1.S4 RPT_REPRO	Acquired: 2011-05/15 13:27 3.2.0-9901
Reference: 0	Processed: 2011-05/16 10:00 3.2.0-9901

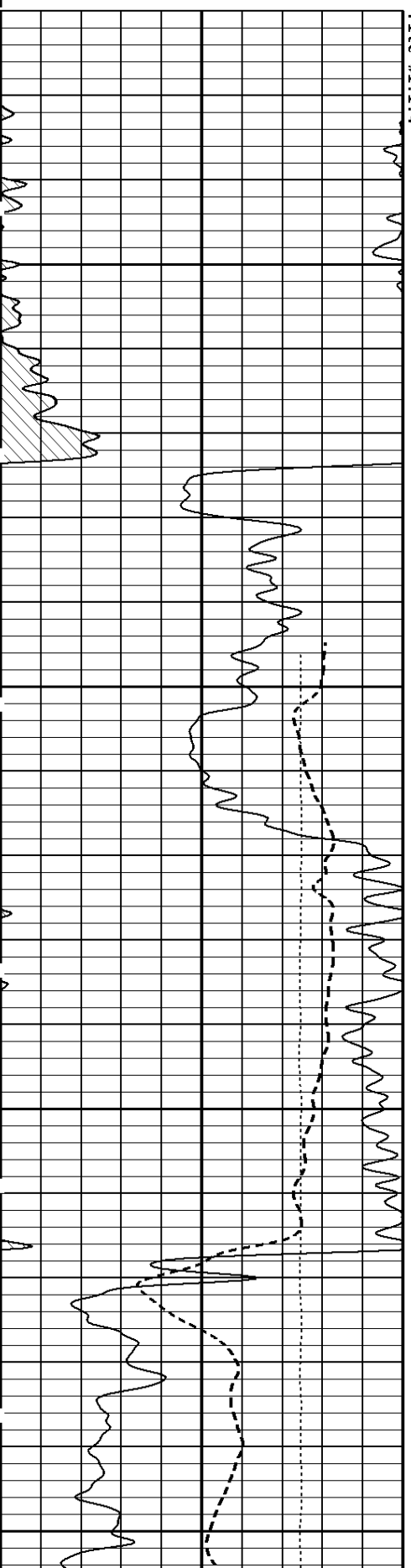


150 300 150
0

0.2

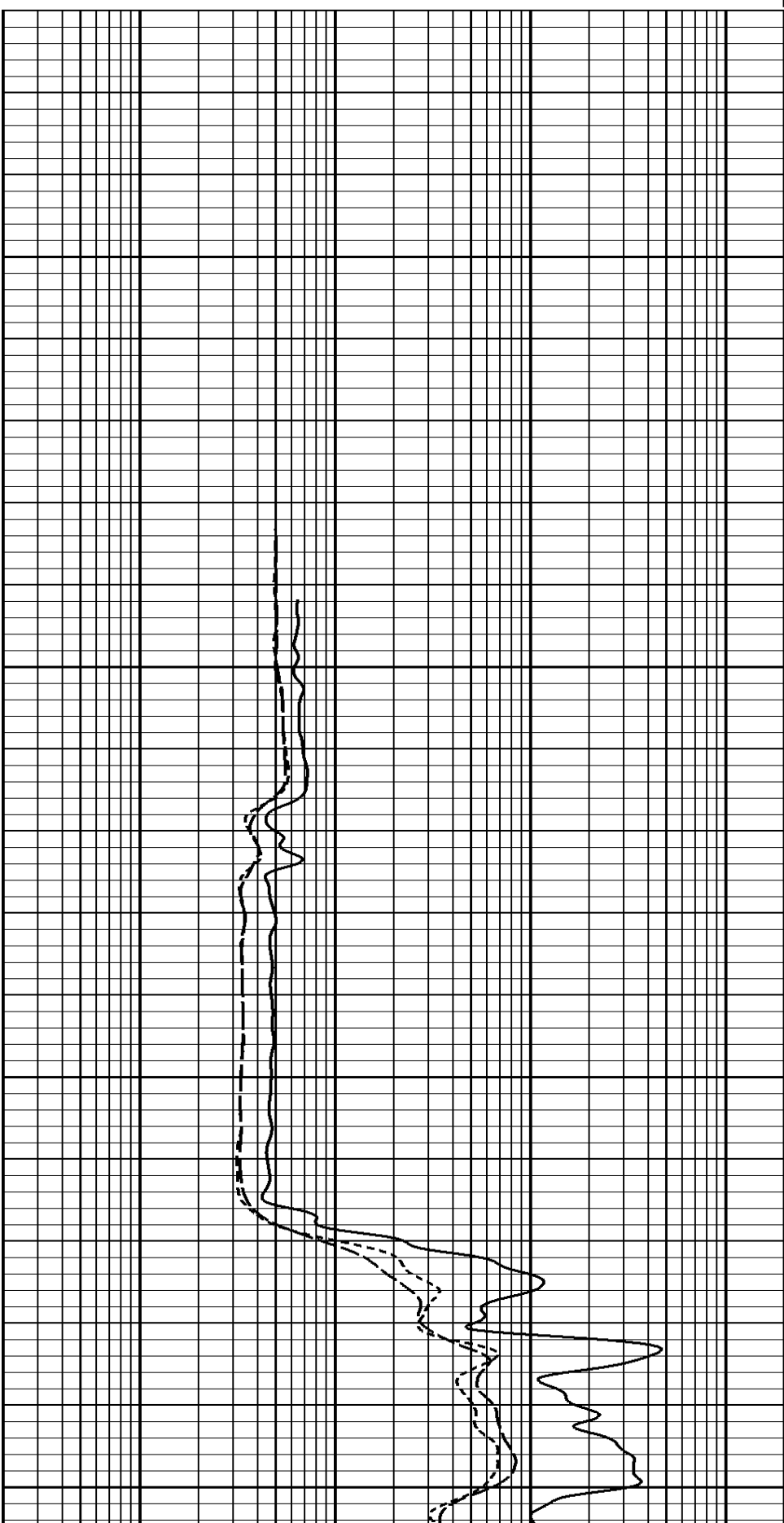
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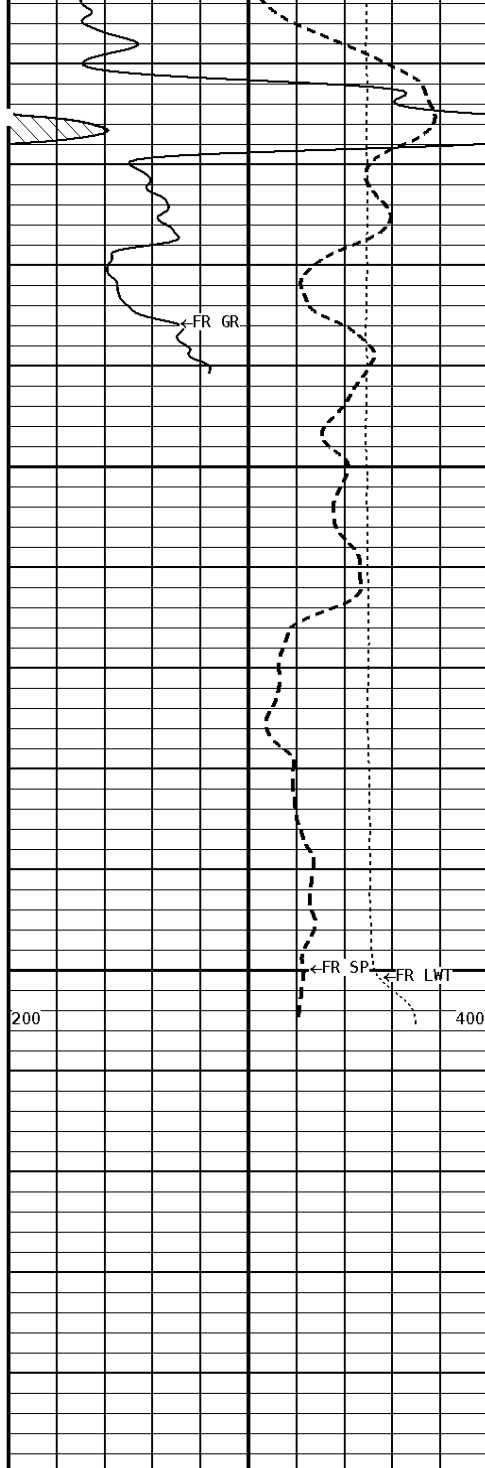
1:240 REPEAT SECTION



3300

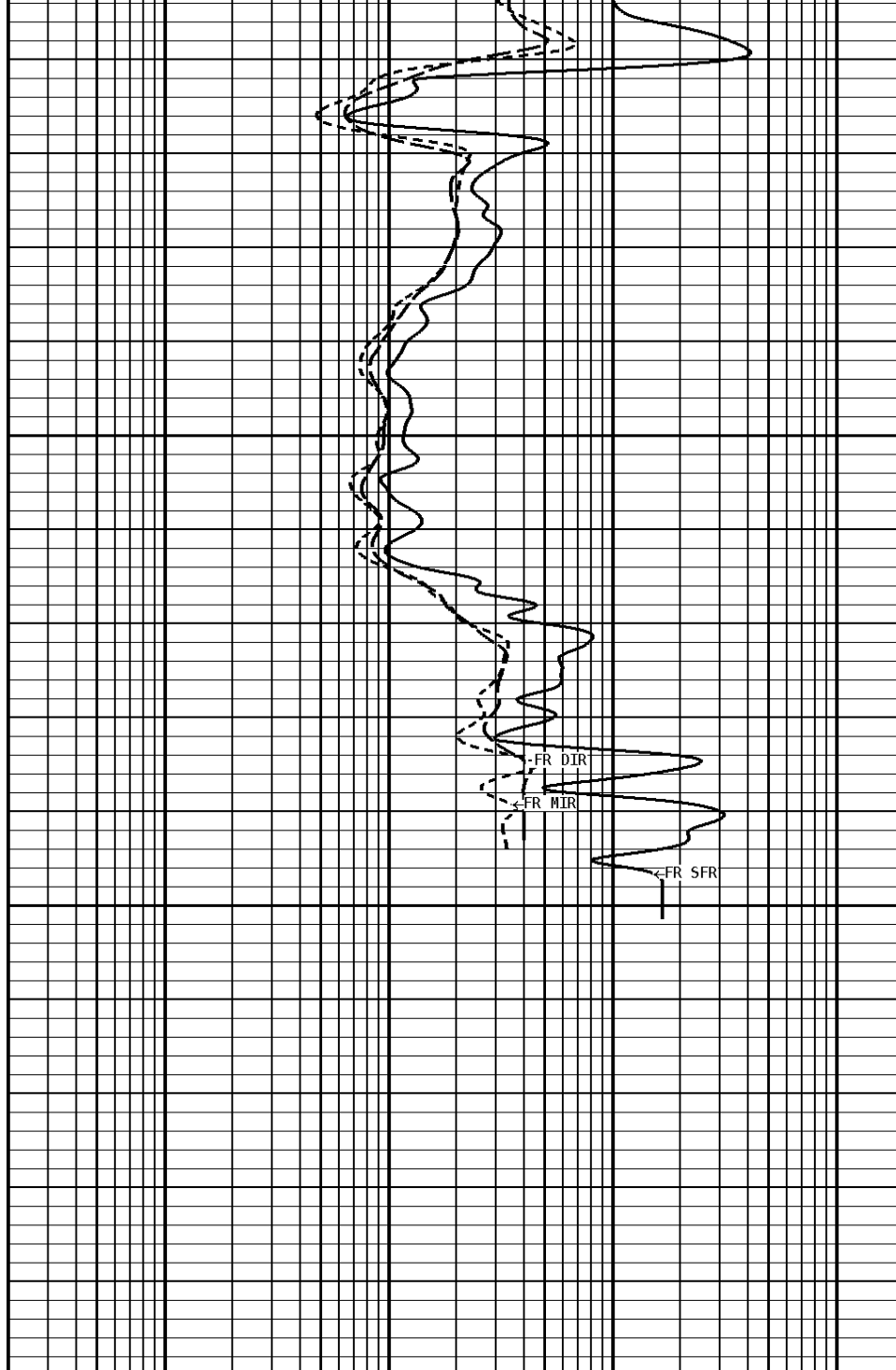
3400





File #1.1.4

3500



1:240 REPEAT SECTION

GAMMA RAY
API UNITS

150 0 300 150

SPONTANEOUS POTENTIAL
mV

→ | ← 20

TENSION
LBS

10000 0

DEEP INDUCTION
OHMM

0.2 2000.0

MEDIUM INDUCTION
OHMM

0.2 2000.0

SHALLOW FOCUSED RESISTIVITY
OHMM

0.2 2000.0

*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 Feet			
Drill Bit Size_____	7.875	in	
BHT Depth_____	3500.000	ft	
Borehole Temperature_____	122.0	degF	
Temperature Gradient_____	1.00	DFHF	
Resistivity Of Mud_____	3.000	ohm/m	
Standoff_____	1.5		
Resistivity Of Mud Temperature_____	50.00	degF	

*** Calibration Summary ***

Shop Calibration GRT-B						
Performed : 15-MAY-2011			Time : 08:17			
Sensor Suite : GR-GR5			ID : GRT-BA-121			
	Measured		Units	Calibrated		Units
	Background	Jig		Jig		
GR	50	360	CPS	175		GRAPI

Shop Calibration PIT-CA						
Performed : 26-OCT-2010			Time : 15:00			
Sensor Suite : P-IND-T			ID : PIT-CA-074			
Medium						
	Measured		Calibrated			
	R	X	R	X	Units	
Air	129085	131631	1.8	-0.9	MMHOS	
Zero	131073	131069	0.0	0.0	MMHOS	
Reference	250510	250460	5000.0	5000.0	MMHOS	
Loop	150493	177054	2800.2	1005.1	MMHOS	
Sonde Error			-0.2	-17.5	MMHOS	
Cond			5000.0	5000.0	MMHOS	
Deep						
	Measured		Calibrated			
	R	X	R	X	Units	
Air	129182	131225	0.2	-0.5	MMHOS	
Zero	131070	131069	0.0	0.0	MMHOS	
Reference	234261	234640	2000.0	2000.0	MMHOS	
Loop	150874	177126	1307.0	465.5	MMHOS	
Sonde Error			-5.0	-6.0	MMHOS	
Cond			2000.0	2000.0	MMHOS	
Temperature						
	Measured		Calibrated			
	Low	High	Low	High	Units	
	16980.0	56920.0	70.0	350.0	DEGF	

Performed : 26-Oct-2010			Time : 14:24			
Sensor Suite : SFL			ID : PIT-CA-074			
Internal						
	Measured		Calibrated			
	Zero	Reference	Zero	Reference	Units	
Im	32797.7	48515.7	0.0	7028.0	uA	
Ib	32772.2	49422.5	0.0	1750.0	mA	
MOM1	32741.3	56808.0	0.0	175.0	mV	
Equivalent SFL			43.97		OHMM	

Performed : 26-Oct-2010			Time : 13:58			
Sensor Suite : P-SP			ID : PIT-CA-074			
Internal						
	Measured		Calibrated			
	Zero	Reference	Zero	Reference	Units	
	32766.9	58975.1	0.0	1000.0	mV	

Performed : 10-SEP-2010			Time : 12:00			
Sensor Suite : P-RMUD			ID : PIT-CA-074			
Internal						
	Measured		Calibrated			
	Zero	Reference	Zero	Reference	Units	

	Zero	Reference	Zero	Reference	Units
Rmi	0.0	34825.0	0.0	290.6	mA
Rmv	0.0	34825.0	0.0	290.6	mV
Equivalent Rm				0.0871	OHMM