

Tucker

WIRELINER SERVICES

PHASED INDUCTION

SHALLOW FOCUS SP LOG

Company C&G DRILLING Well HITE #1 Field DEBOIS County SEGWICK State KANSAS Country USA API No. 15-173-21014-0000		File No : TUL-58680 Company : C&G DRILLING Well : HITE #1 Field : DEBOIS County : SEGWICK State : KANSAS Country : USA API No : 15-173-21014-0000	
Location : 860' FNL & 1020' FEL NW SW NE NE		LSD : Sect : 3 Twp : 25S Rge : 2E	
Permanent Datum: Drilling Measured From: GL Log Measured From: KB Above Permanent Datum: 6.00 Ft		Elevations: KB 1361.00 Ft DF 1360.00 Ft GL 1354.00 Ft	
Services: CNT LDT PIT MLT			
Date	2012-08-28		
Run Number	1		
Depth--Driller	3290.0 Ft		
Depth--Logger	3290.0 Ft		
First Reading	3290.0 Ft		
Last Reading	200.0 Ft		
Casing--Driller	200.0 Ft		
Casing--Logger	200.0 Ft		
Bit Size	7.875 In		
Casing Size	8.625 In		
Hole Fluid Type	CHEM-GEL		
Density	9.3 LBS/GAL		
Fluid Loss	9.6 CC		
PH/Viscosity	8.8 MEASURED 56.0 SEC		
Sample Source	MEASURED		
RM@Measured Temp.	0.550 @ 80 F		
RMF@Measured Temp	0.440 @ 80 F		
RM@Measured Temp.	0.660 @ 80 F		
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	0.410 @ 109 F		
Time Circulation Stopped	2012-08-28 02:33		
Max Recorded Temp.	109 F		
Equipment/Base	TRK 127 TULSA		
Recorded By	SHELDON TYLER		
Witnessed By	T. GULLICK		

The customer is hereby warned that by providing the log data herein, Tucker Technologies, Inc. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. Tucker Technologies, Inc. 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 Tucker Technologies, Inc. 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 Tucker Technologies, Inc. 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	3290.00	8.625	32.00	200.00

Run Number	1	
Date	2012-08-28	
Date/Time On Bottom	2012-08-28 04:33	
Depth to Fluid	0.0 Ft	
Salinity	0.000 PPM	
RMF@BHT	0.330 @ 109 F	
RMC@BHT	0.500 @ 109 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.

DETAIL 2300 CUSTOMER REQUEST

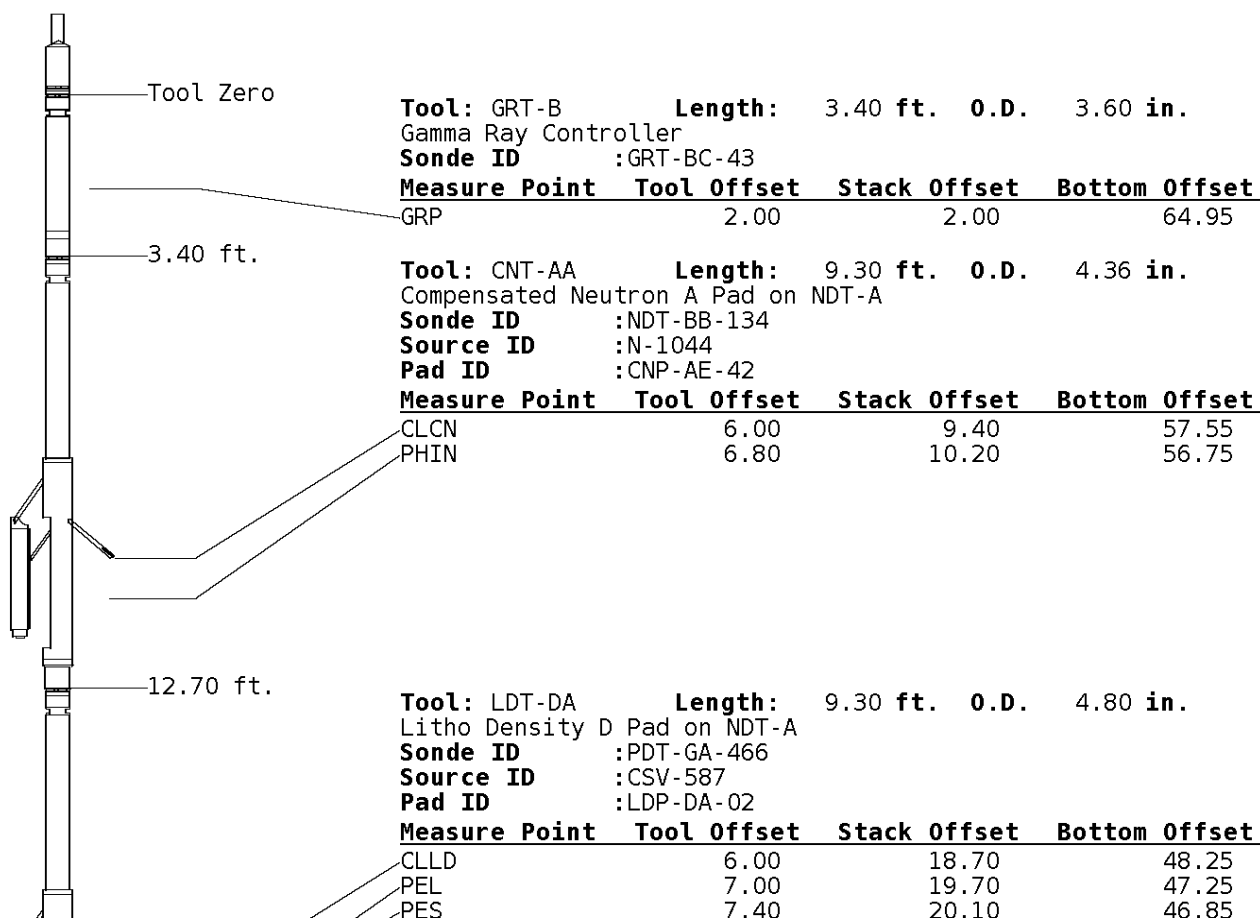
GRT: GRP.
 CNT: PHIN, CLCNIN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 MLT: NOR_R, INV_R, MSCLPIN.
 CST: PORS, DDCDTE, TT1PF, TT3PF, ITT.
 PIT: ILD, ILM, SPU, SFLAEC

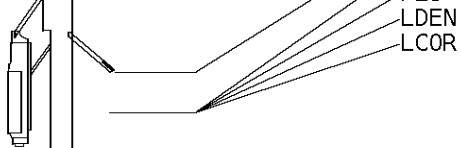
OPERATORS:

A.DJAH
 Z.HICKMAN
 J.THOMAS

Tool String Schematic

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



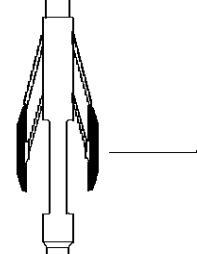


7.20 19.90 47.05
7.20 19.90 47.05

22.00 ft.

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
Micro Spherically Focused (IC)
Sonde ID :MLT-DA-21

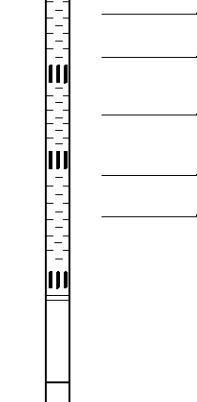
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	37.35
MSCLP	7.60	29.60	37.35
INV	7.60	29.60	37.35
NOR	7.60	29.60	37.35



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

LWT 66.95 ft.

Well File: CG DRILLING HITE 1 AUG28 QUINT

Scale: 1:600

Segment: V1.D1.S3 Reprocess of MAIN NO CST

Acquired: 2012-08/28 05:40 3.2.0-11172

Reference: 0

Processed: 2012-08/28 06:43 3.2.0-11172

TENSION
LBS

10000

0

SPONTANEOUS POTENTIAL
mV

→

←25

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

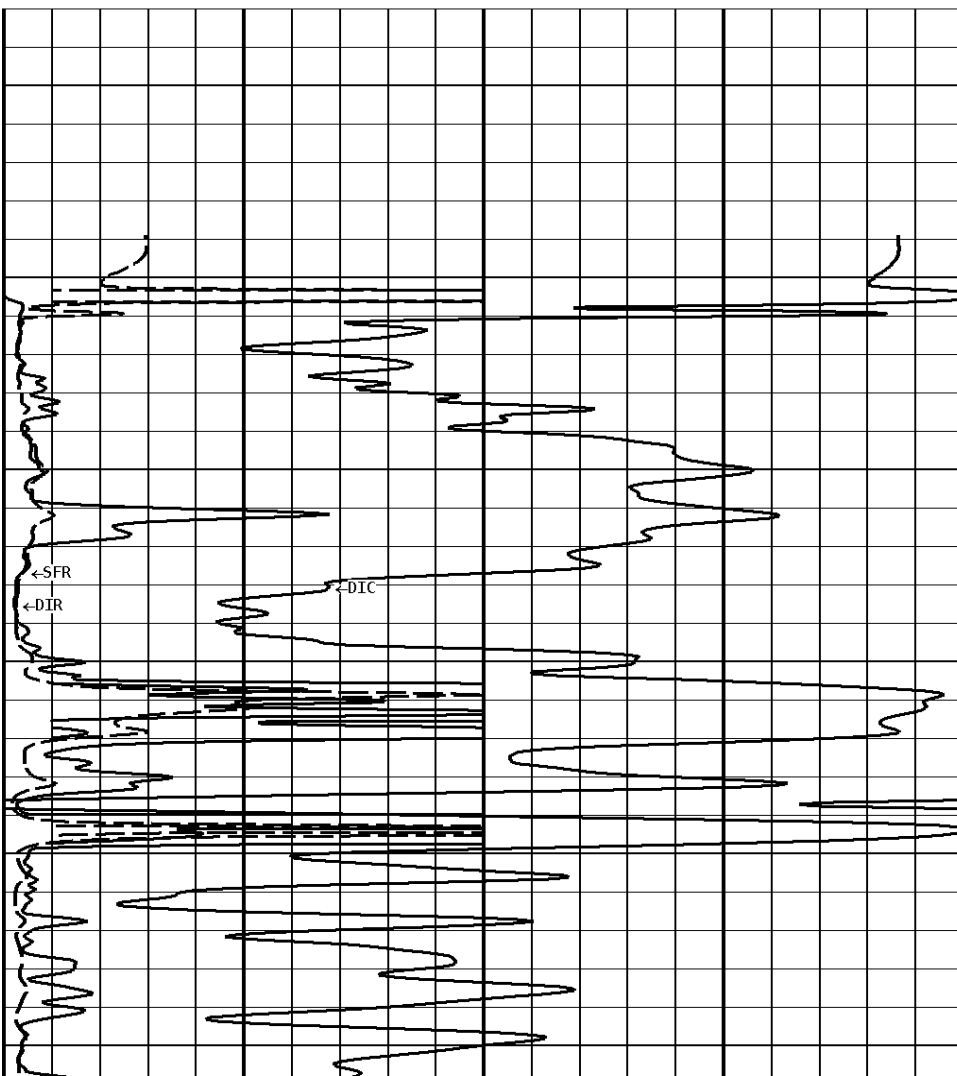
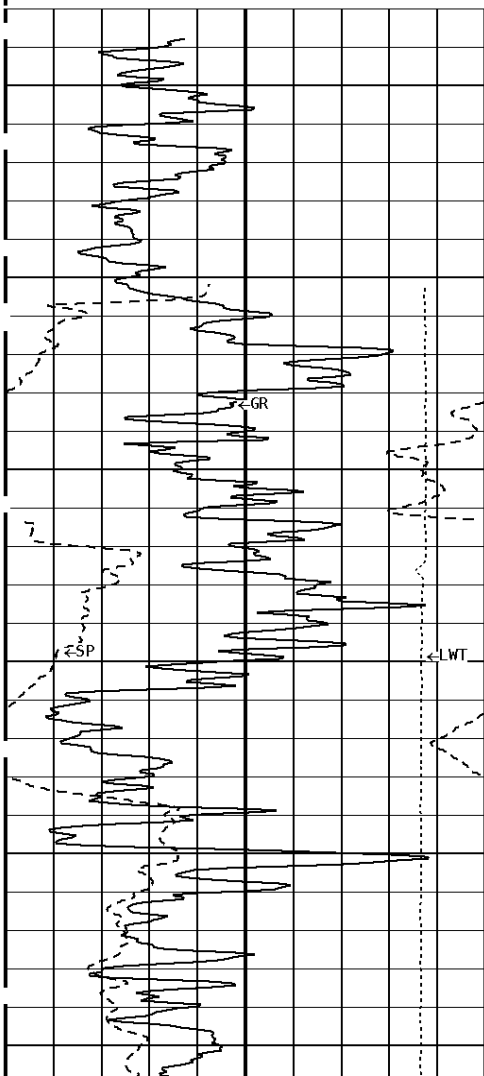
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2 INCH

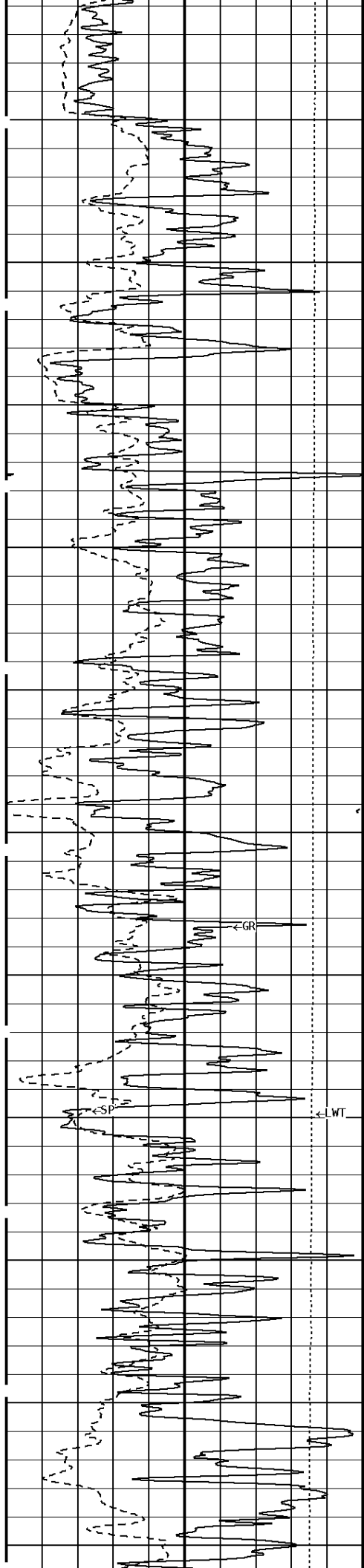
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200

300

400





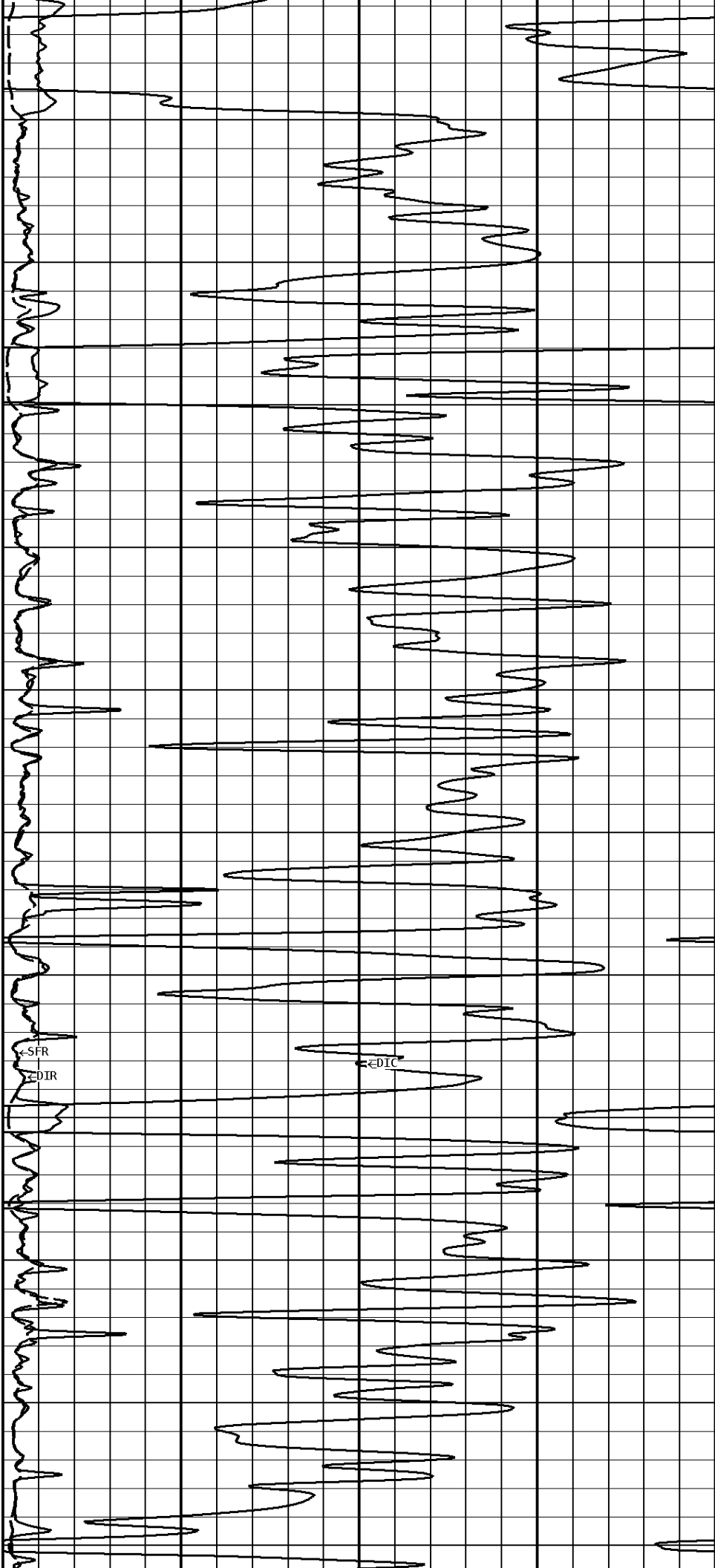
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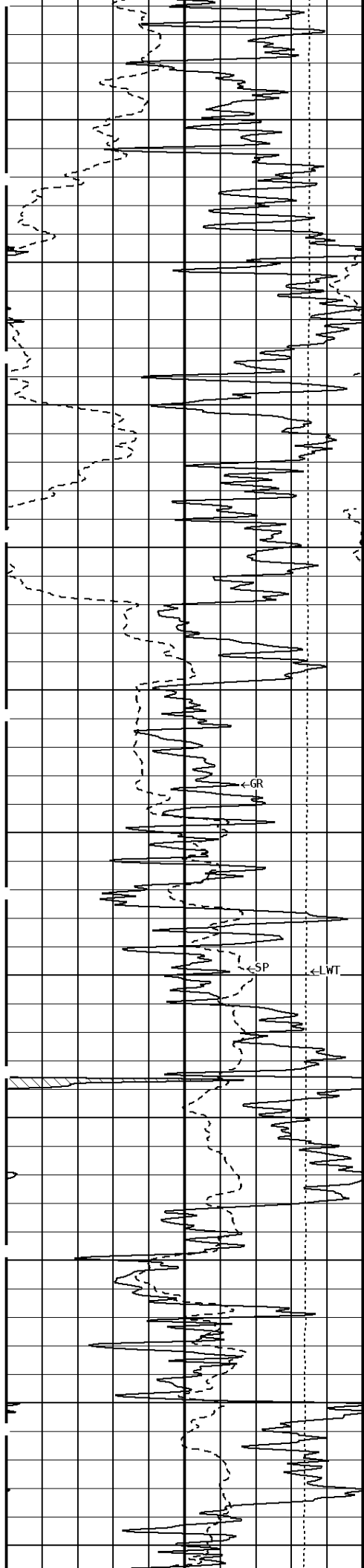
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700

800

900





1000

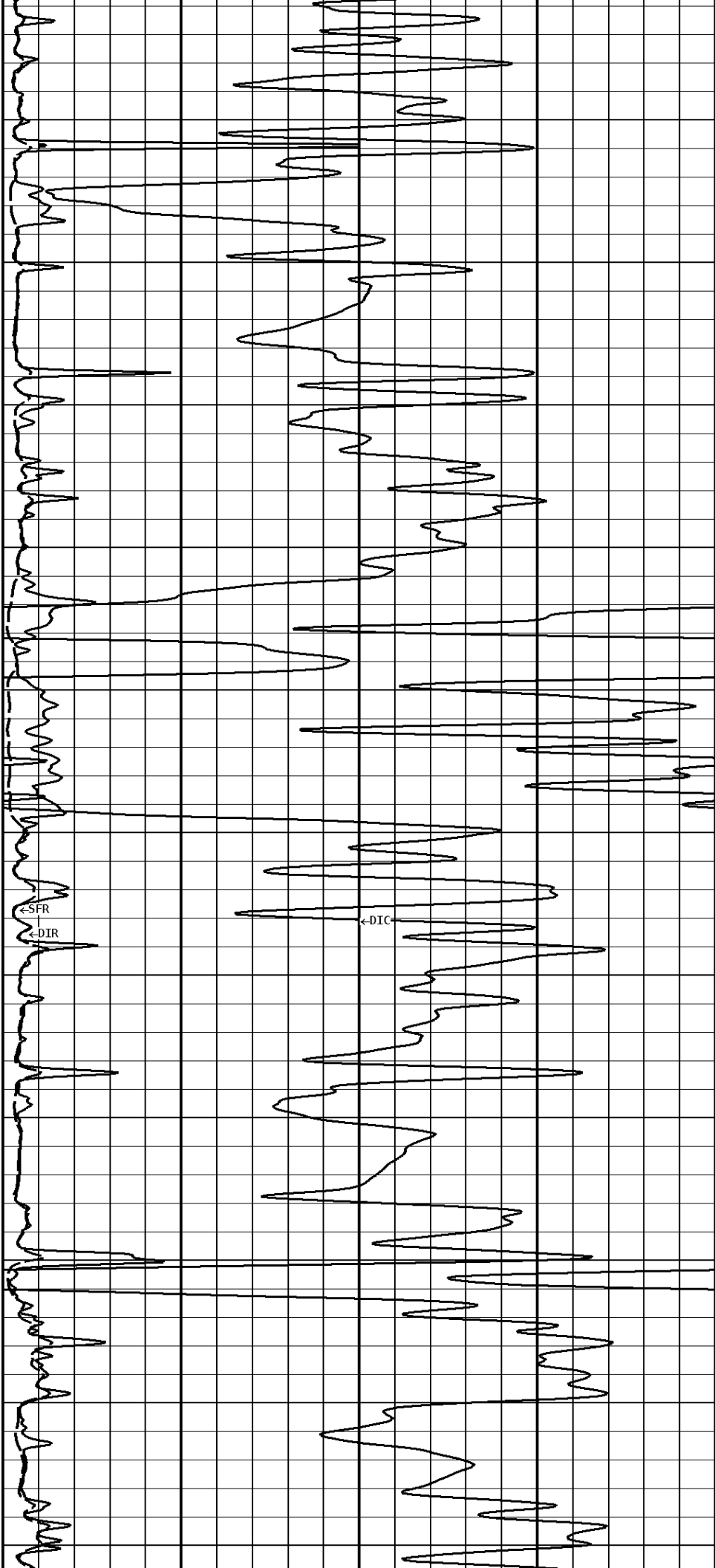
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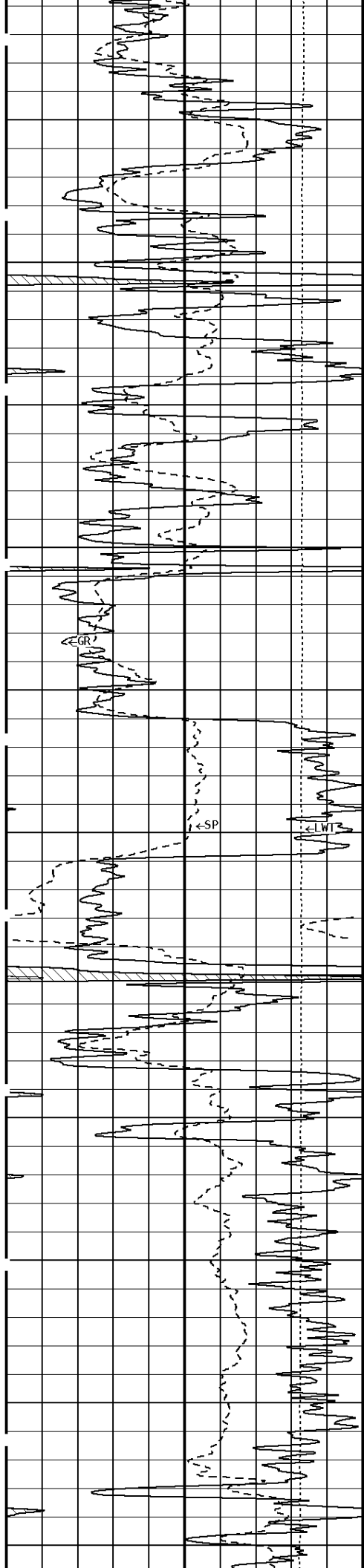
1200

1300

1400

1500





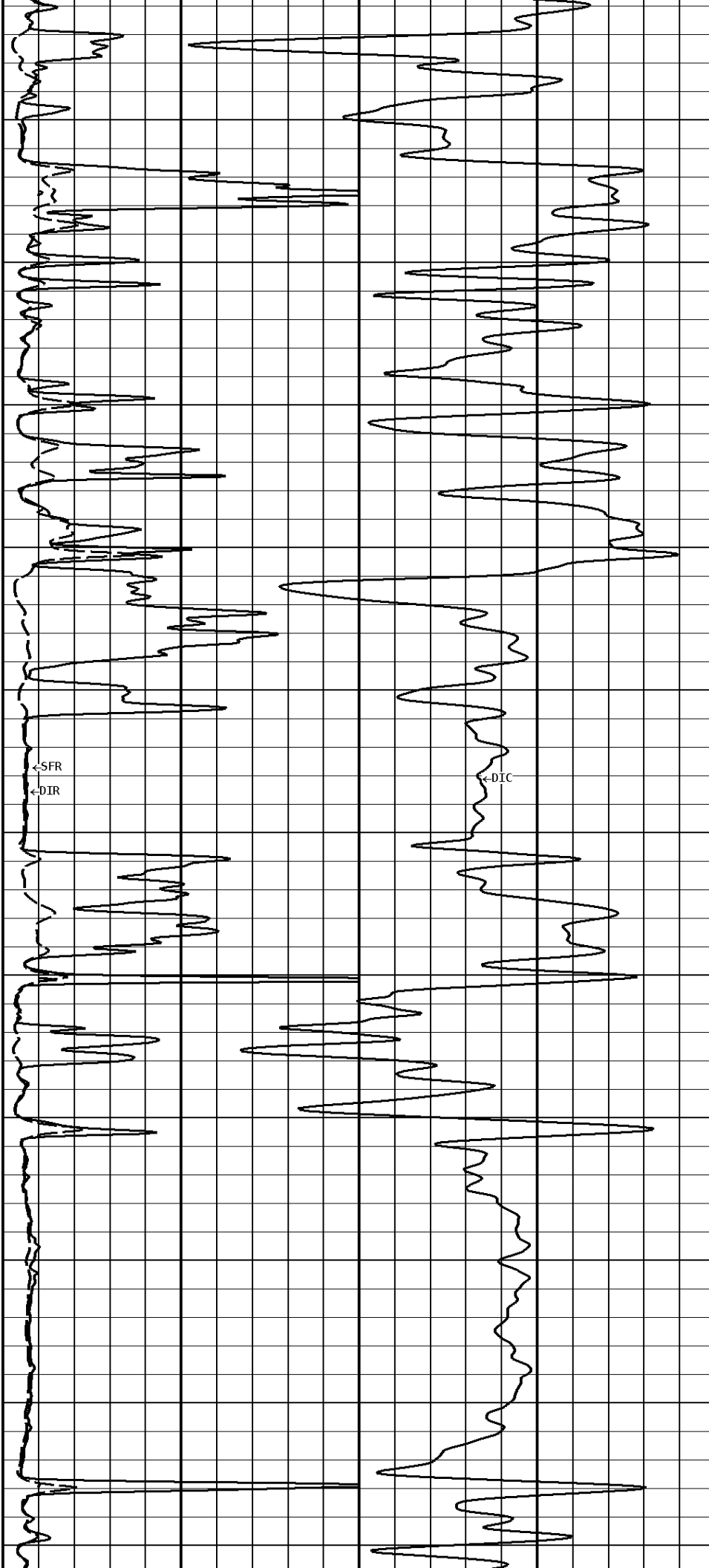
1600

1700

1800

1900

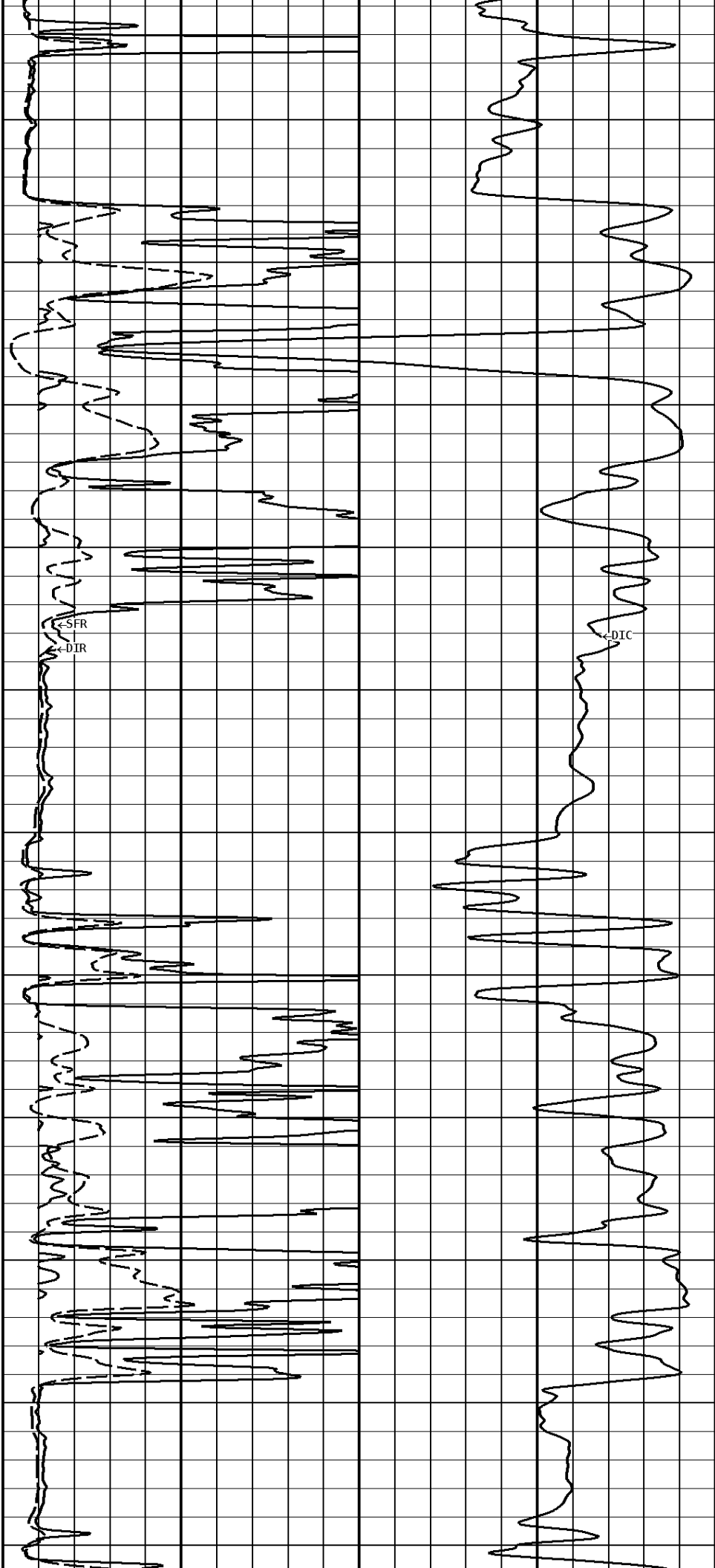
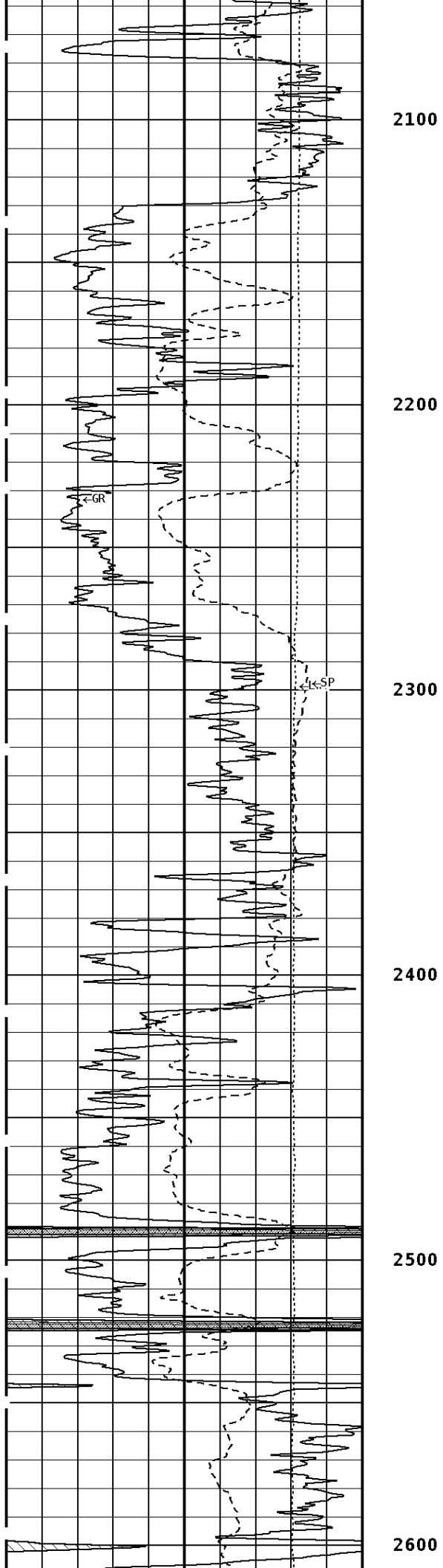
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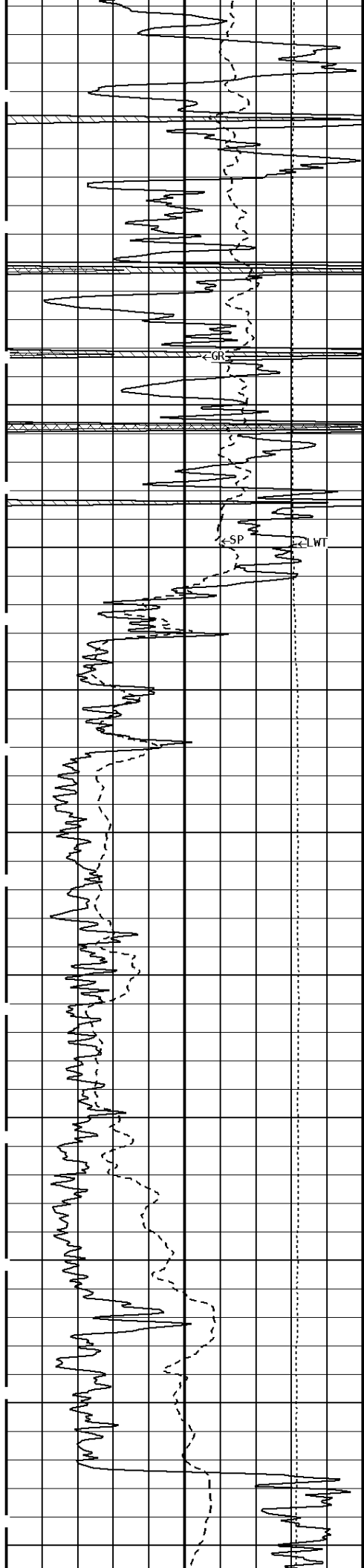


SFR

DIR

DIC





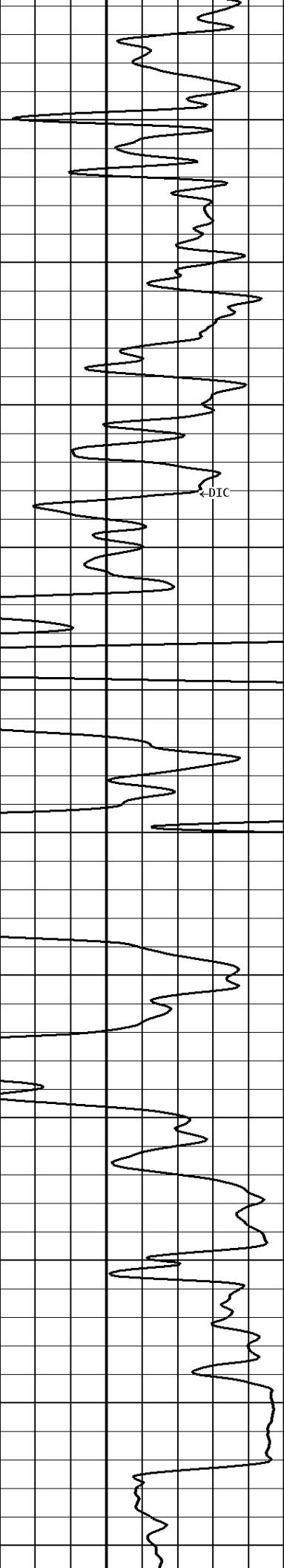
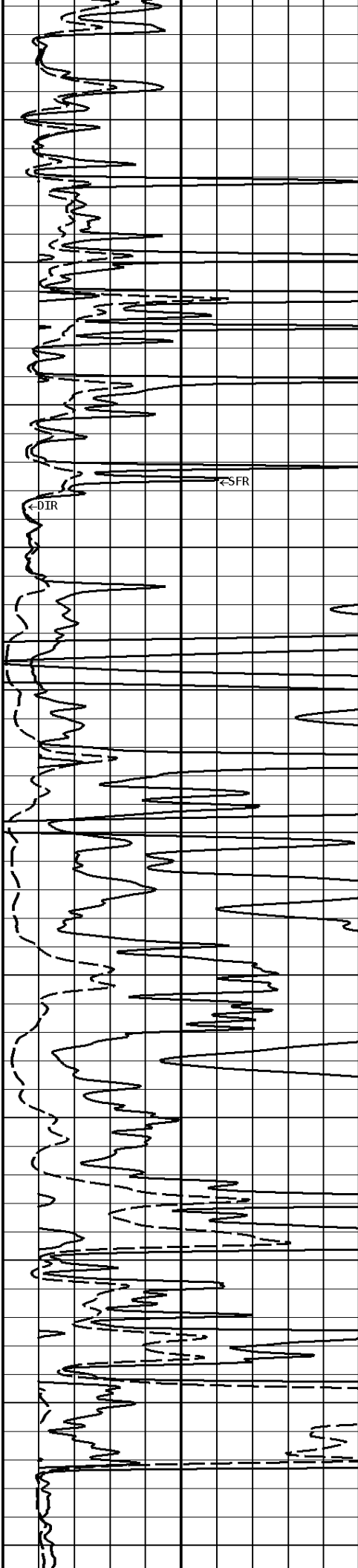
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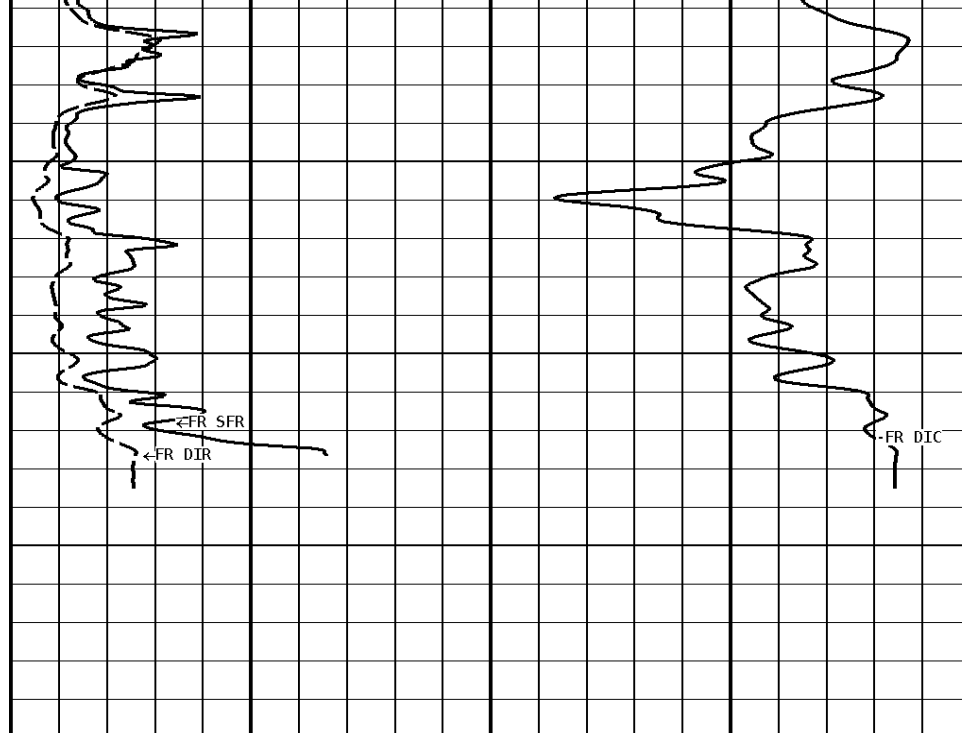
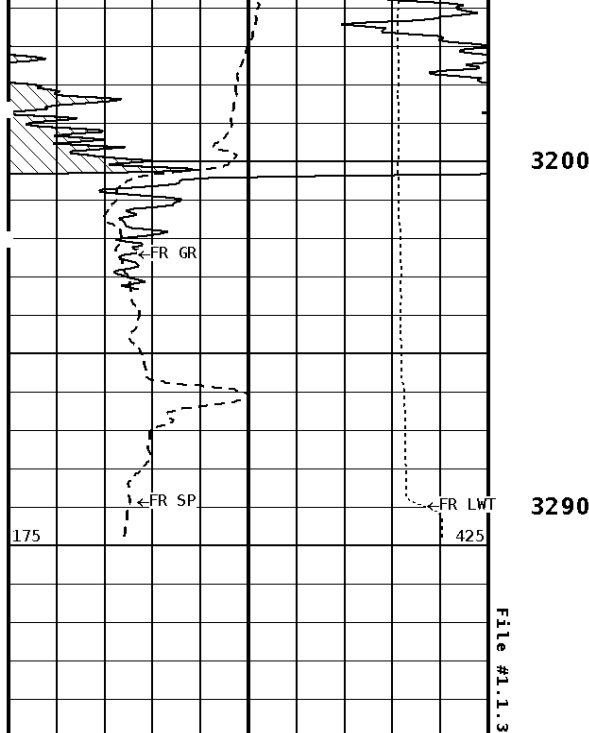
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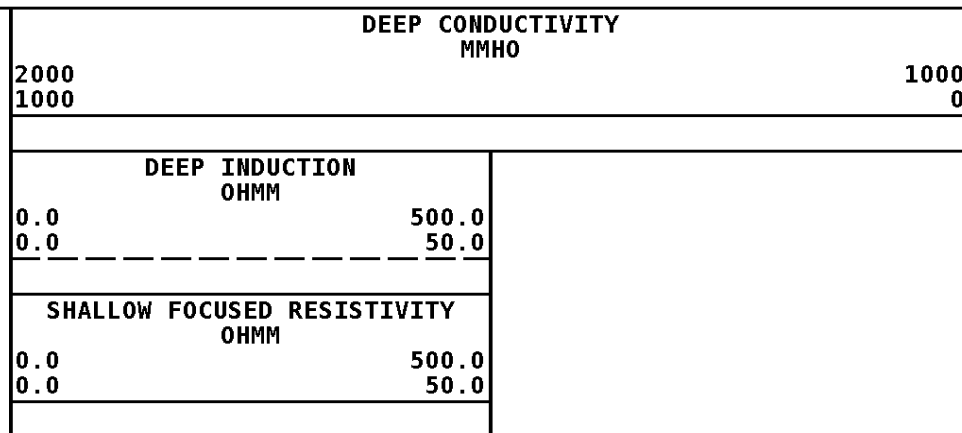
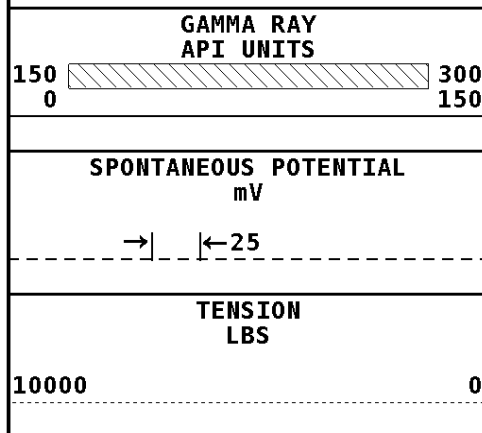
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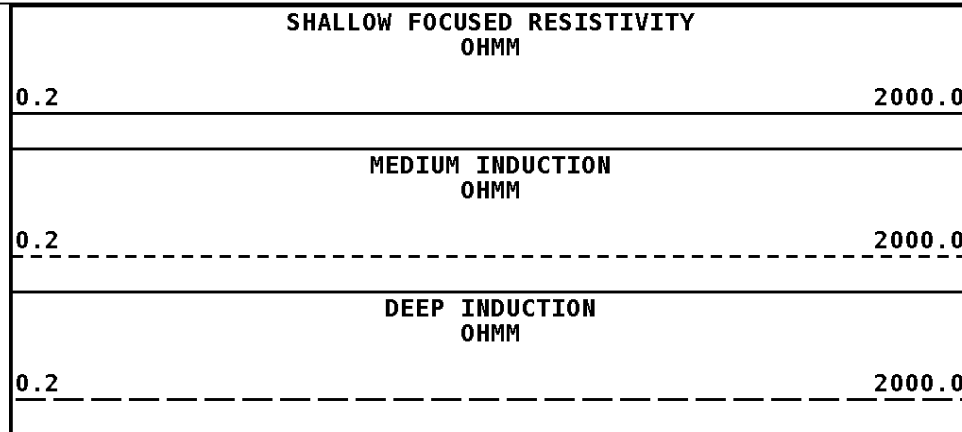
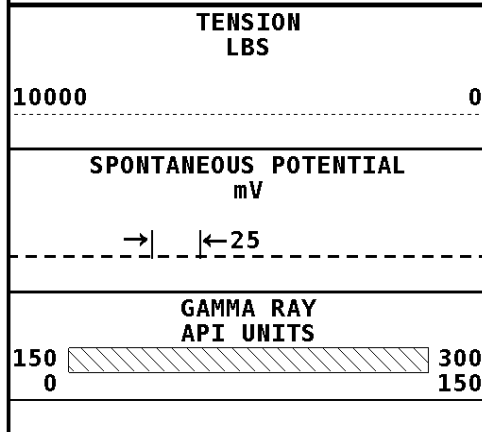




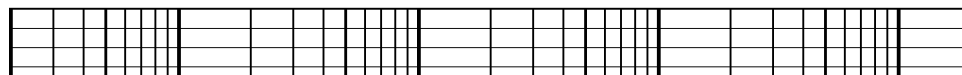
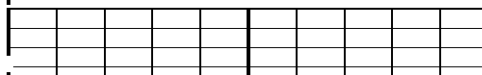
1:600 SECTION
2 INCH

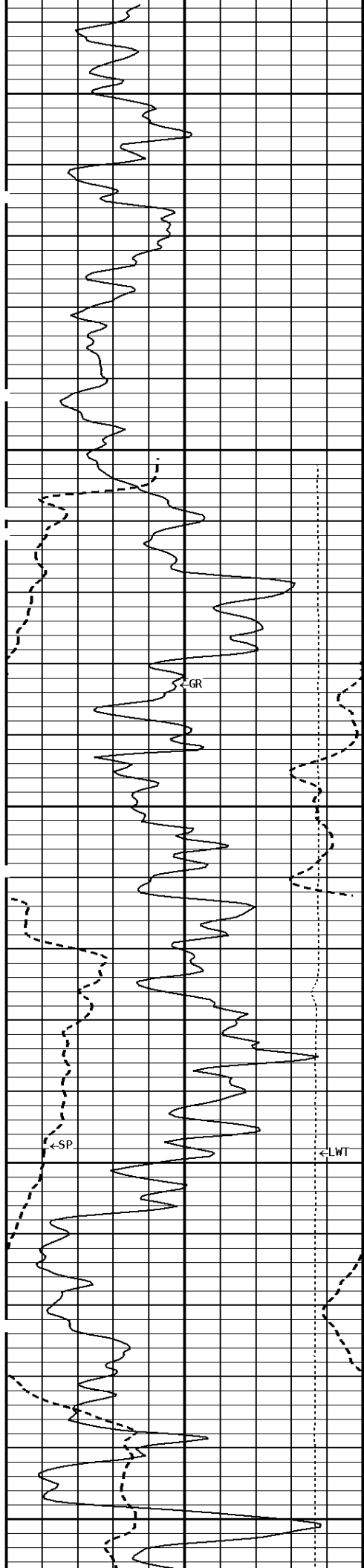


Well File: CG DRILLING HITE 1 AUG28 QUINT **Scale:** 1:240
Segment: V1.D1.S3 Reprocess of MAIN NO CST **Acquired:** 2012-08/28 05:40 3.2.0-11172
Reference: 0 **Processed:** 2012-08/28 06:43 3.2.0-11172



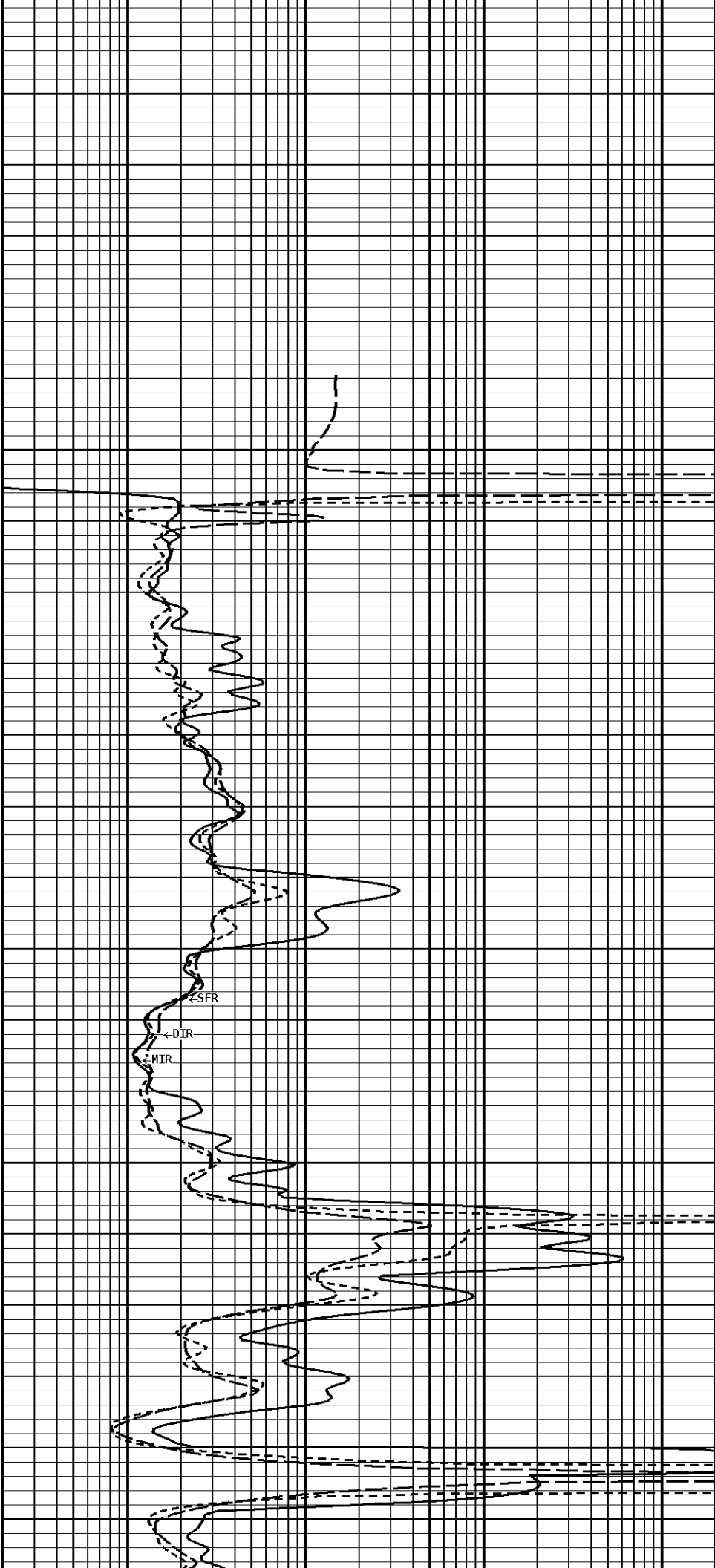
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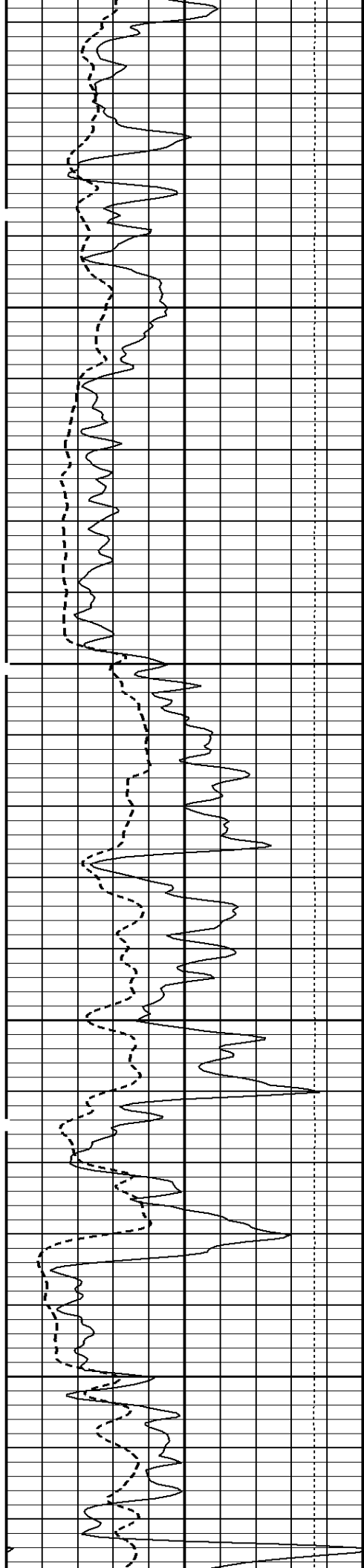




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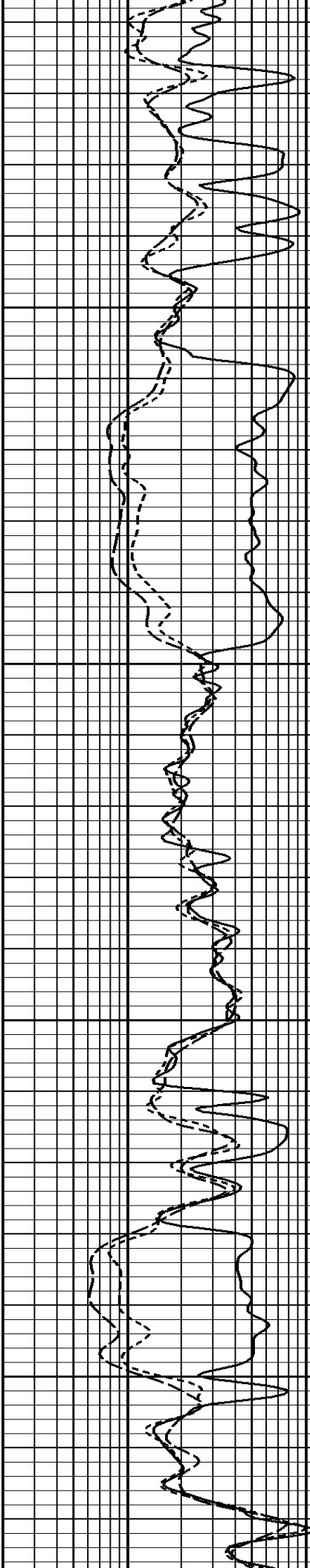
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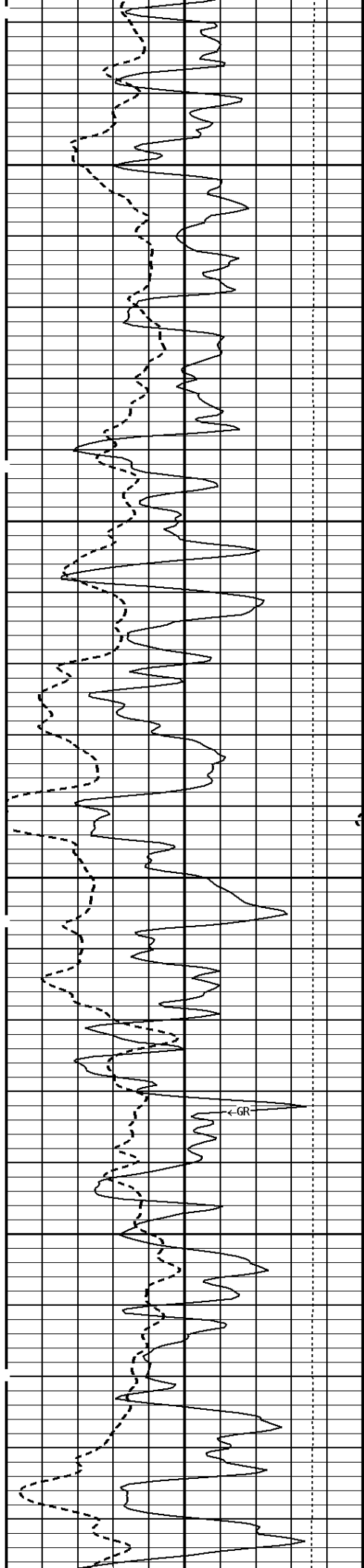




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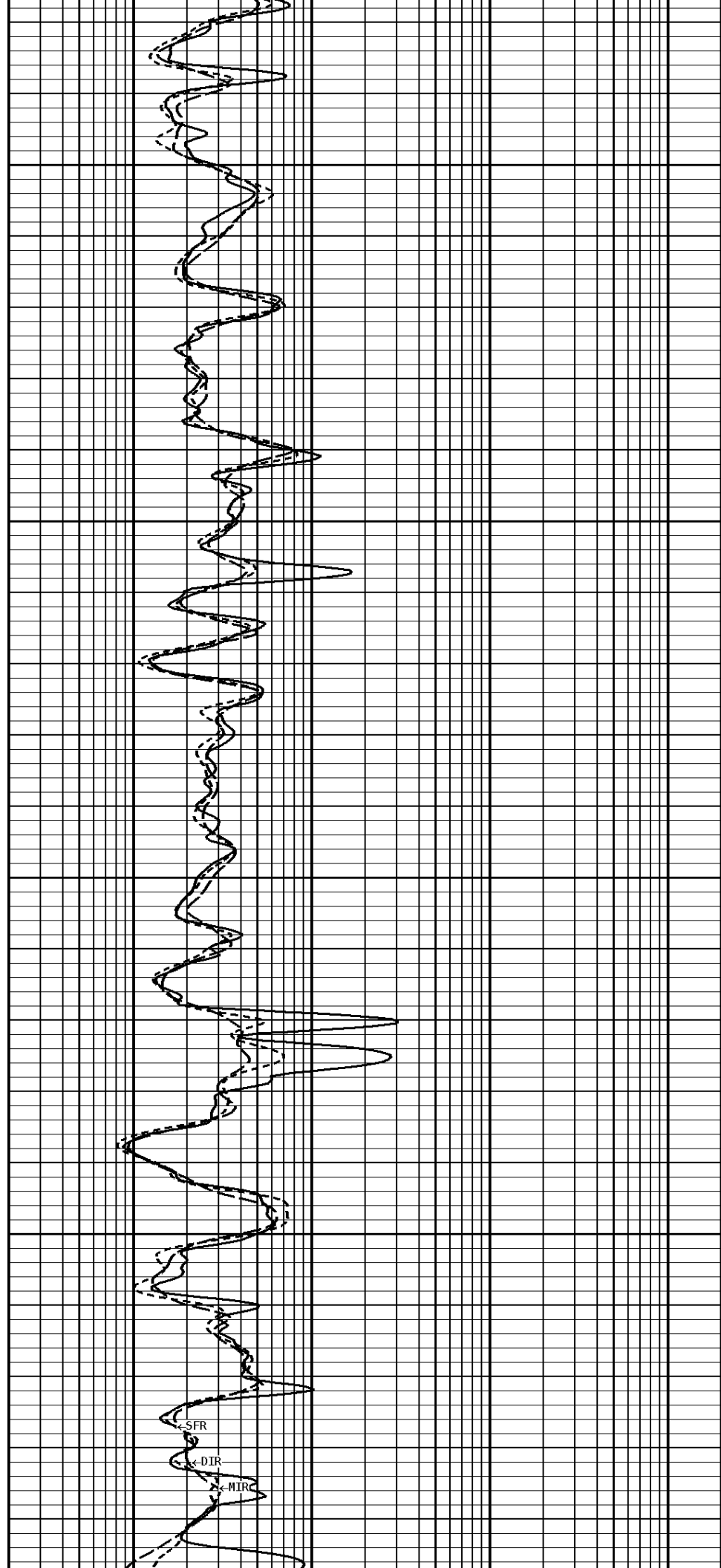
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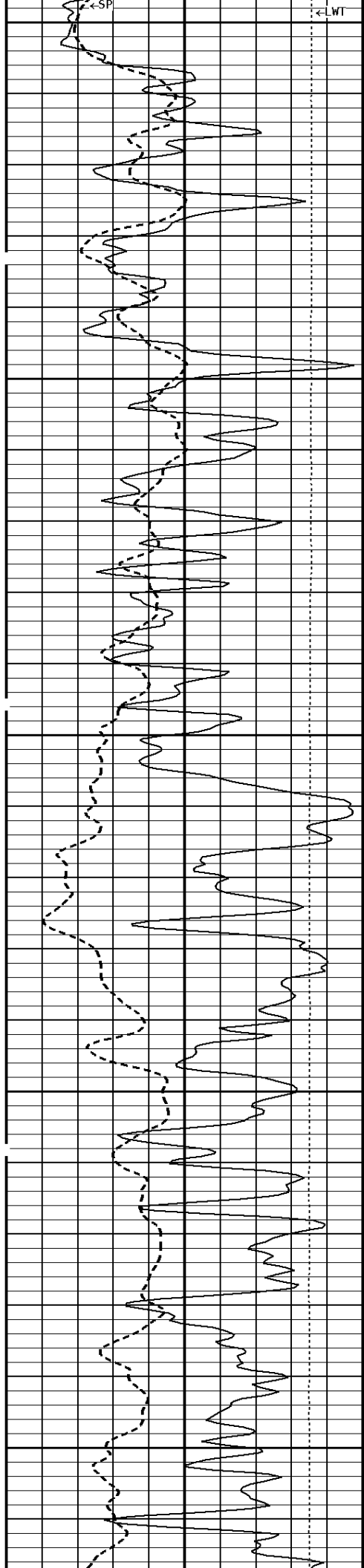




600

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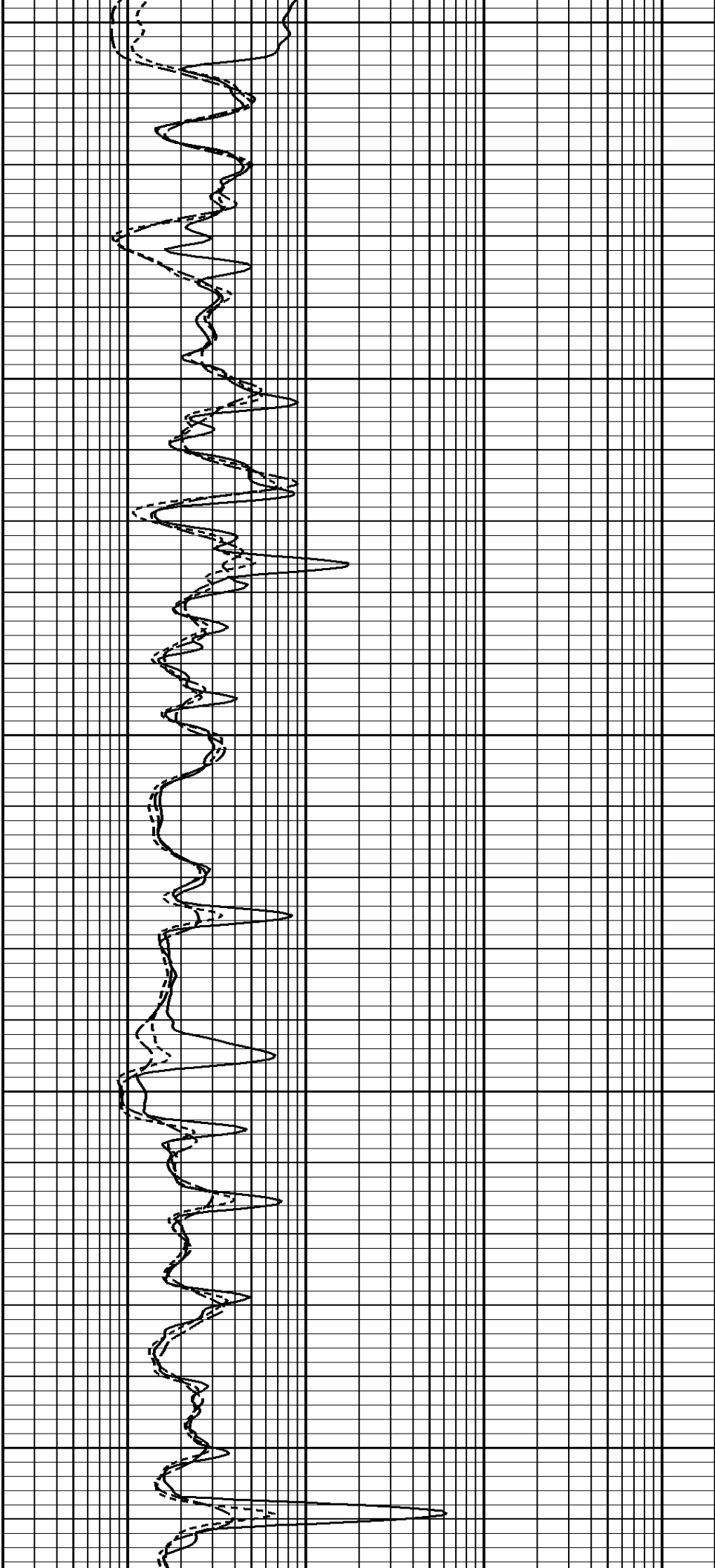


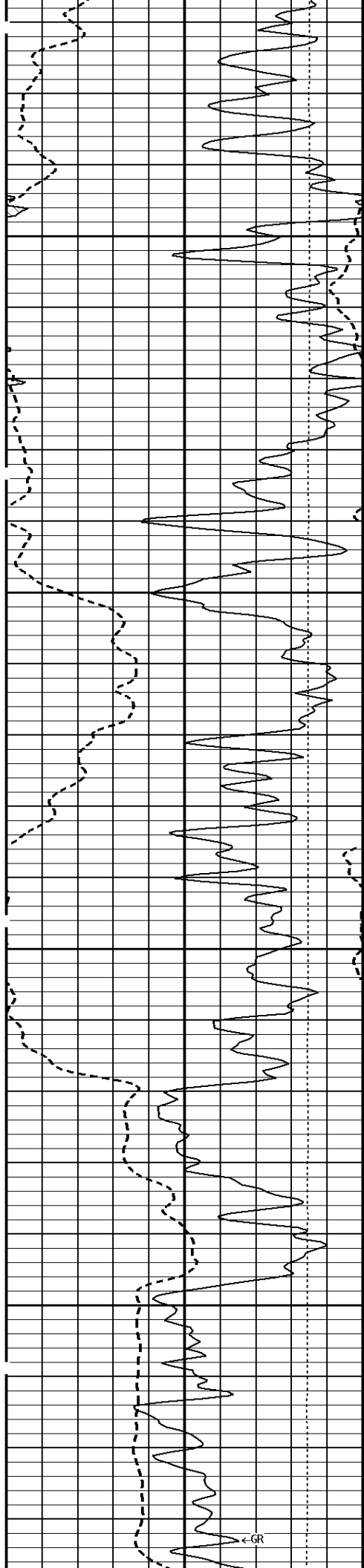


800

900

1000

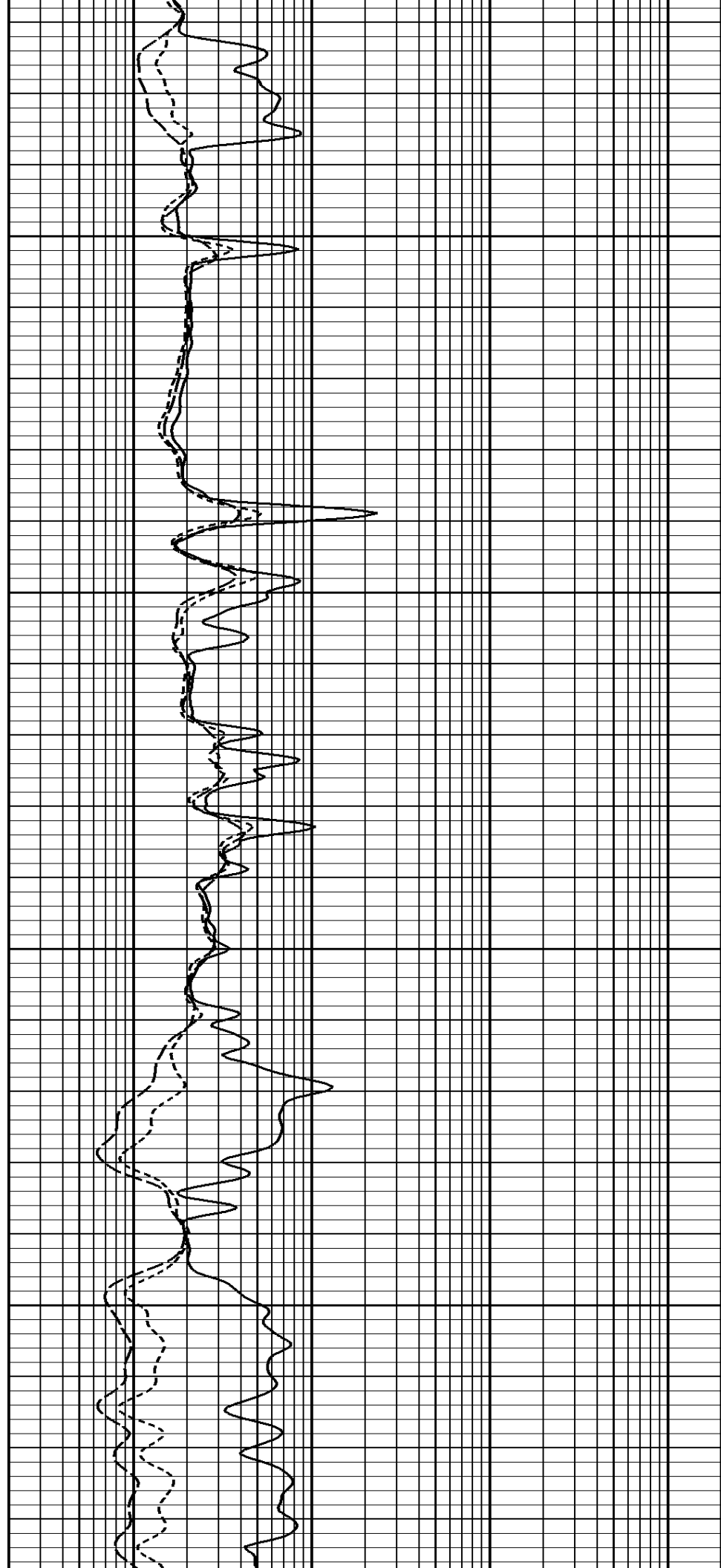


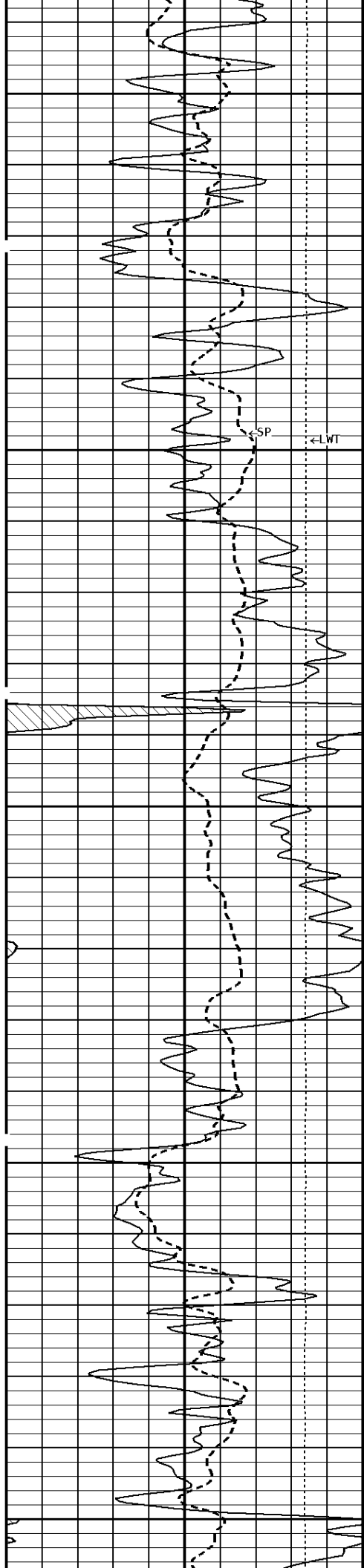


1100

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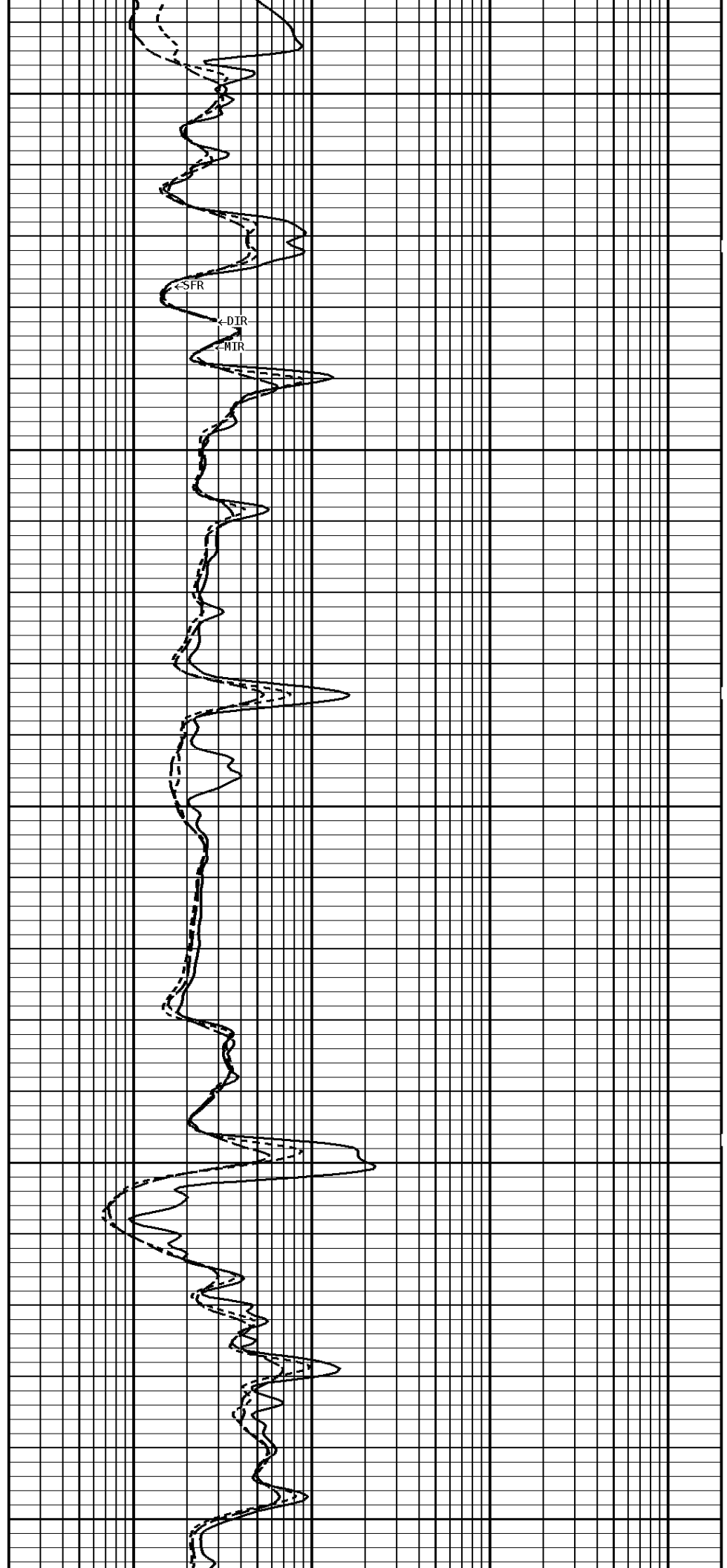
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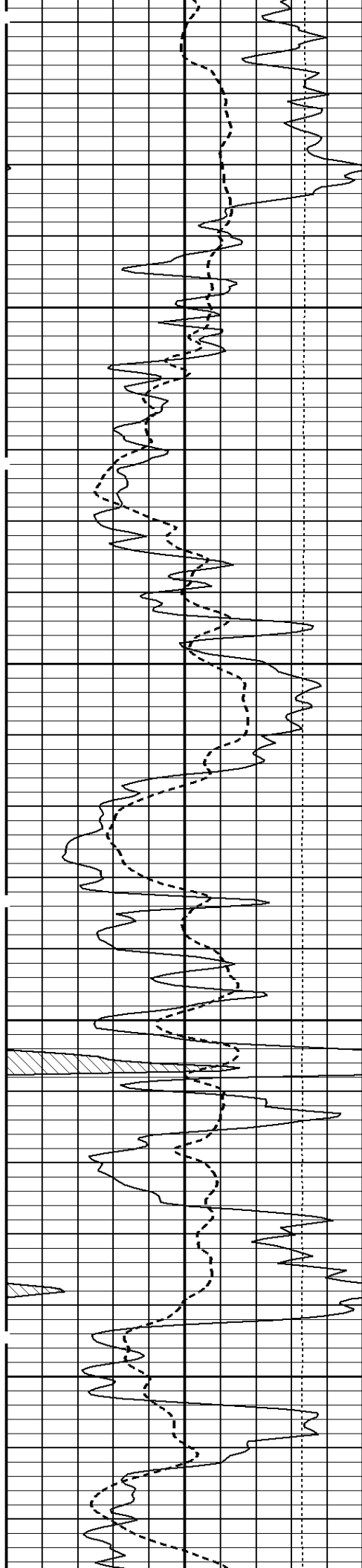




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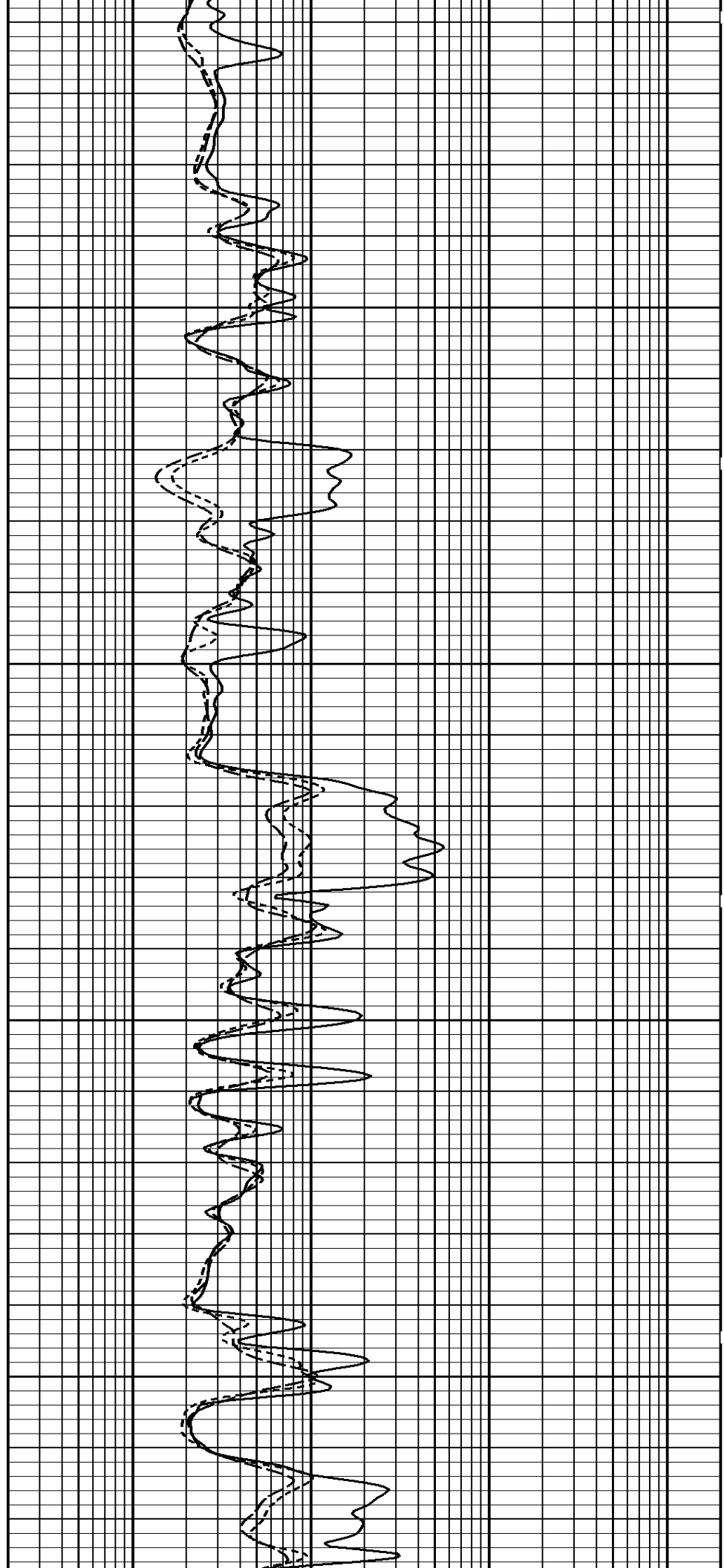
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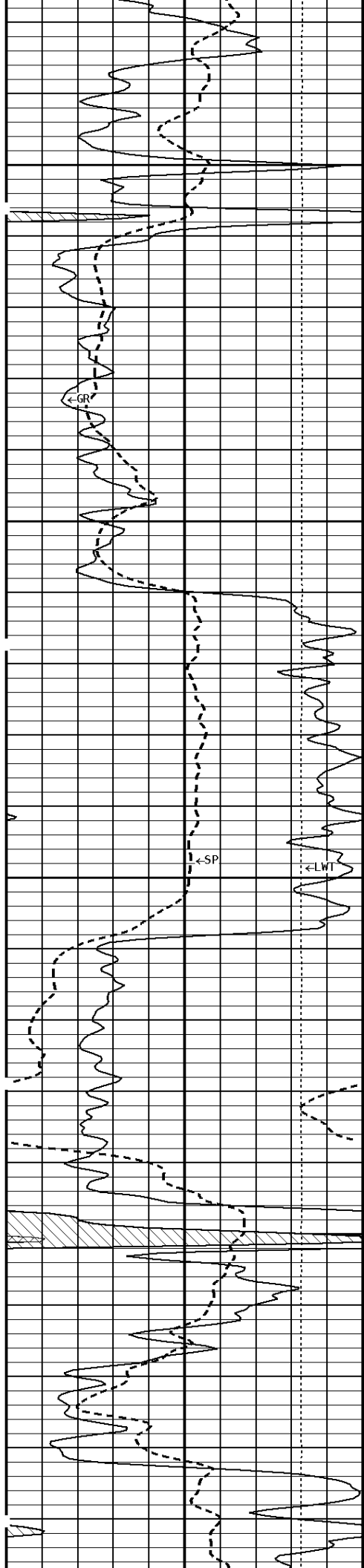




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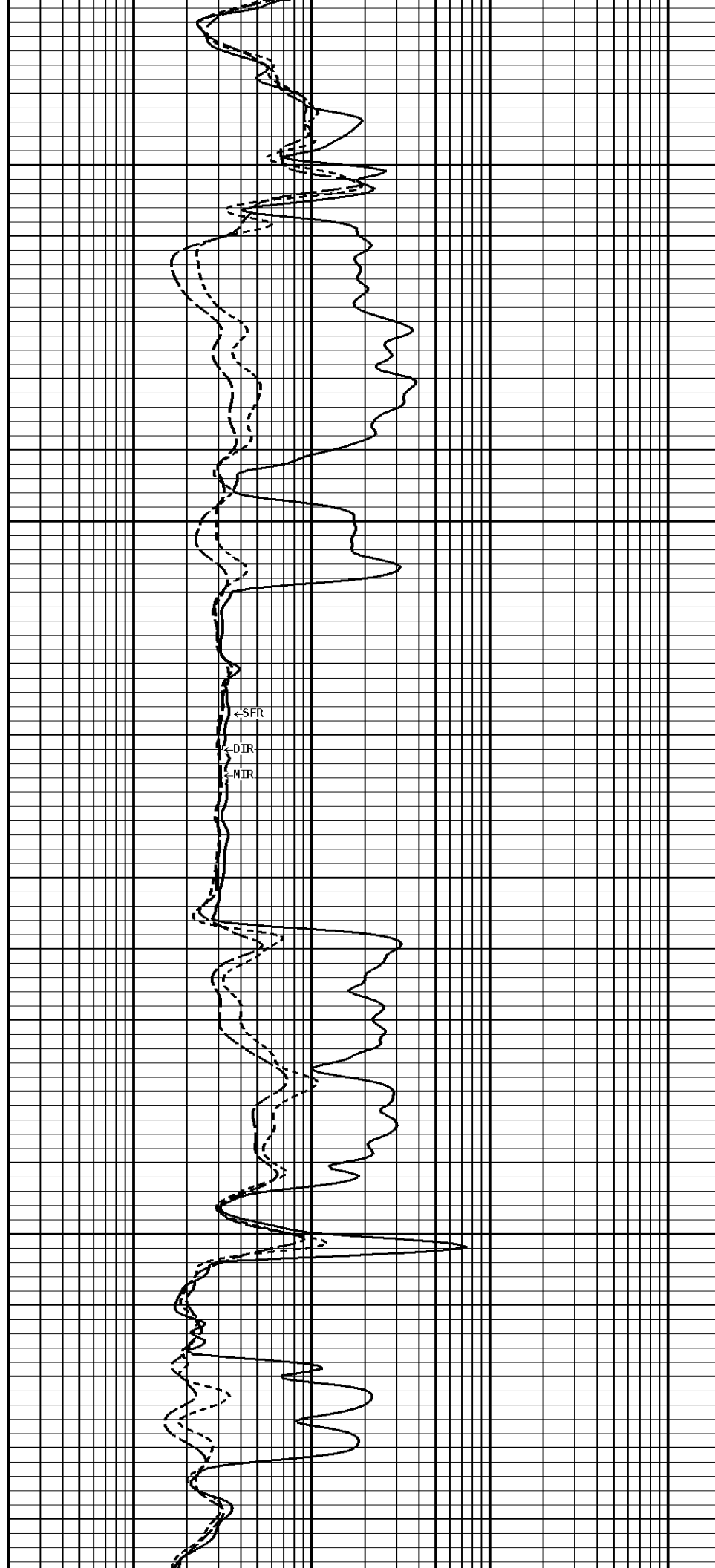
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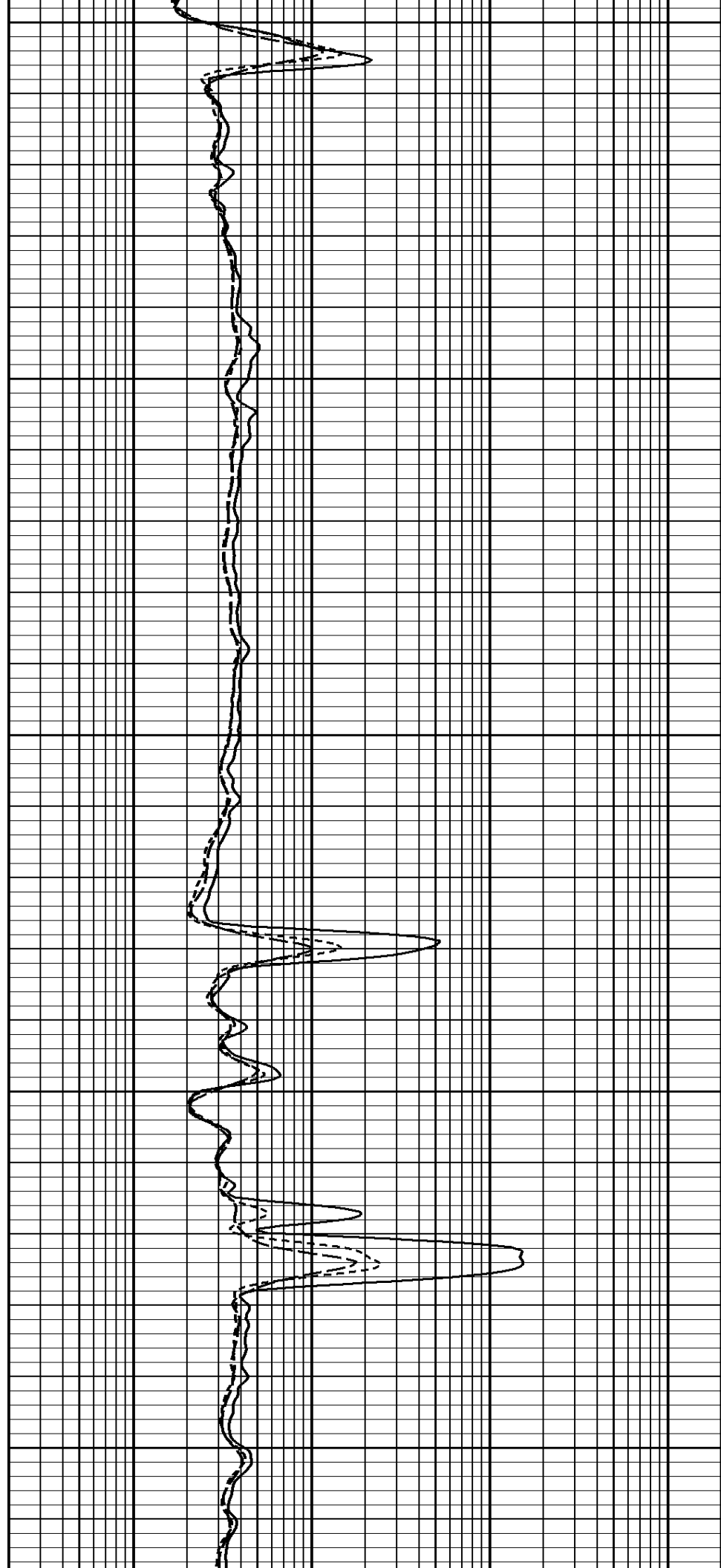
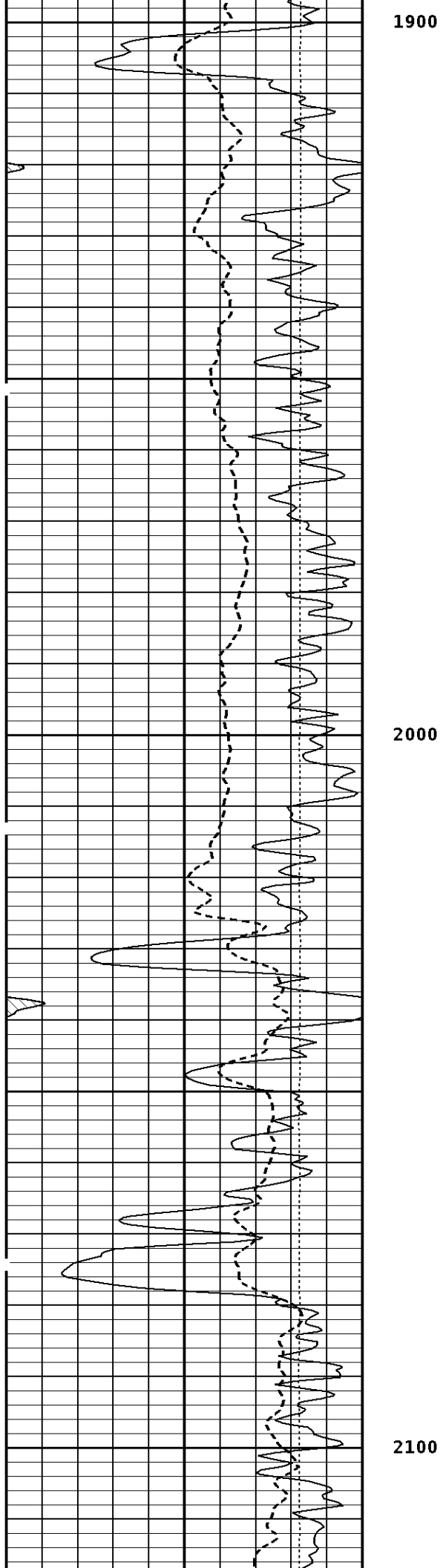


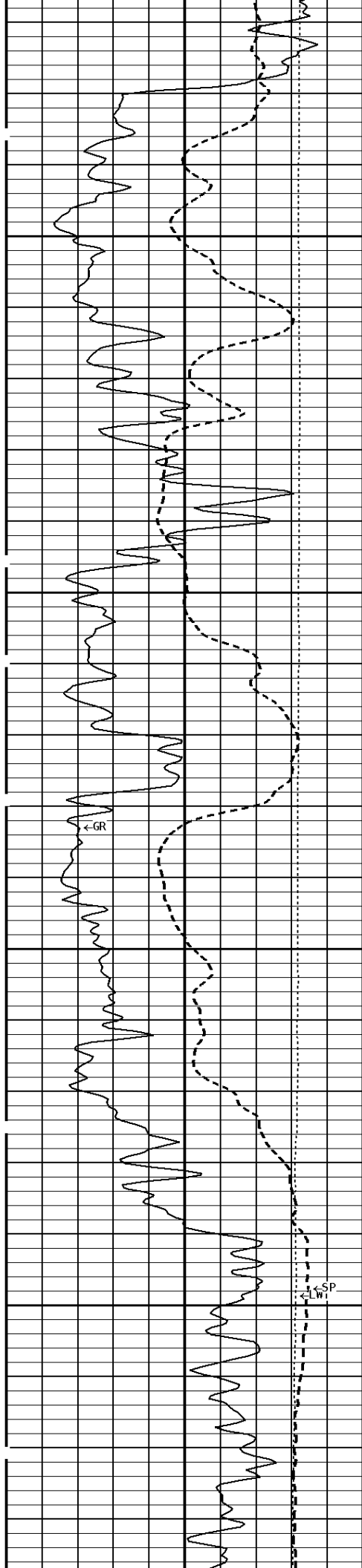


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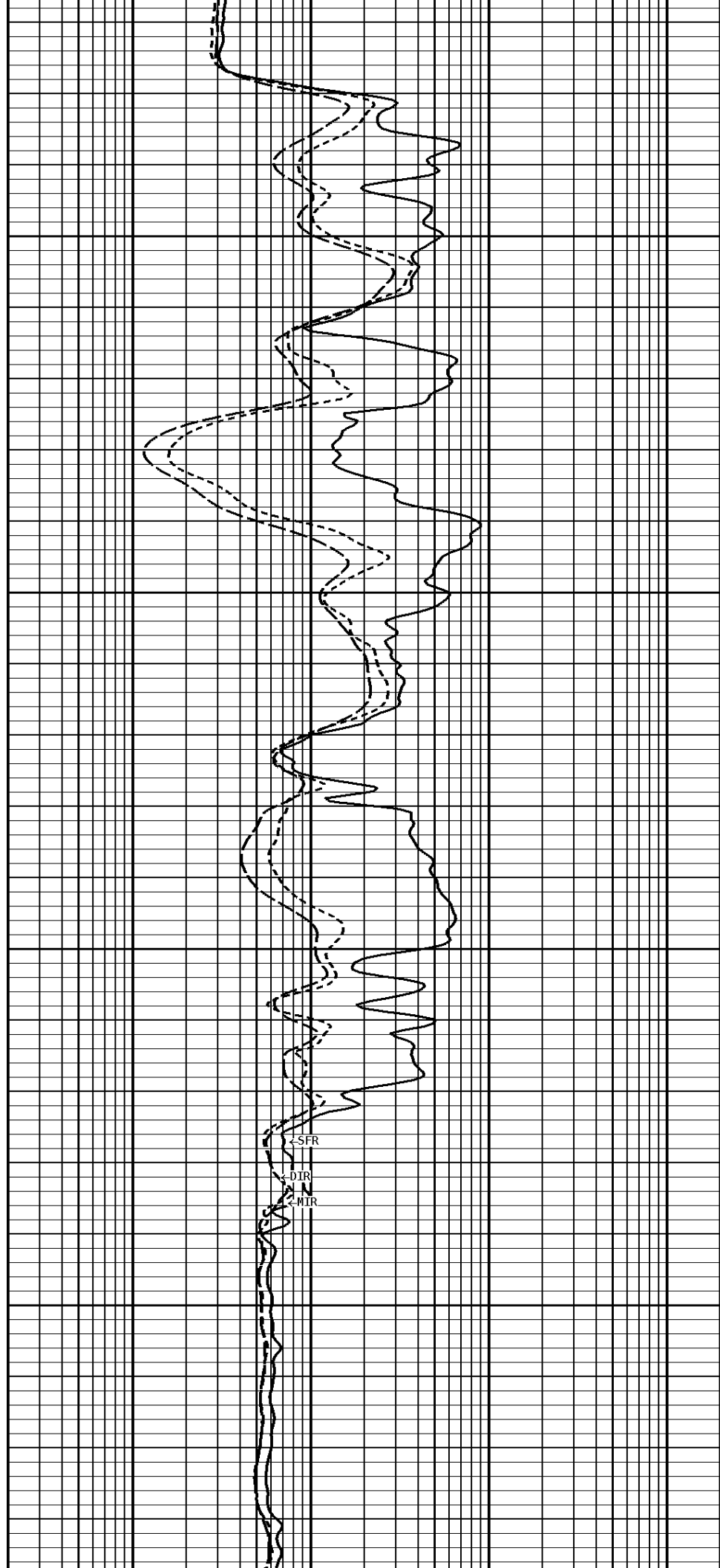


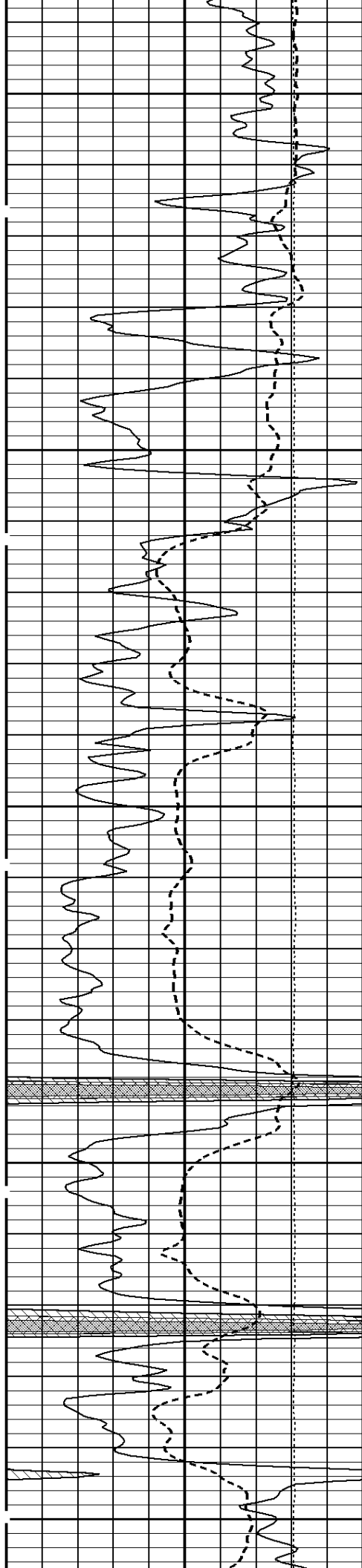




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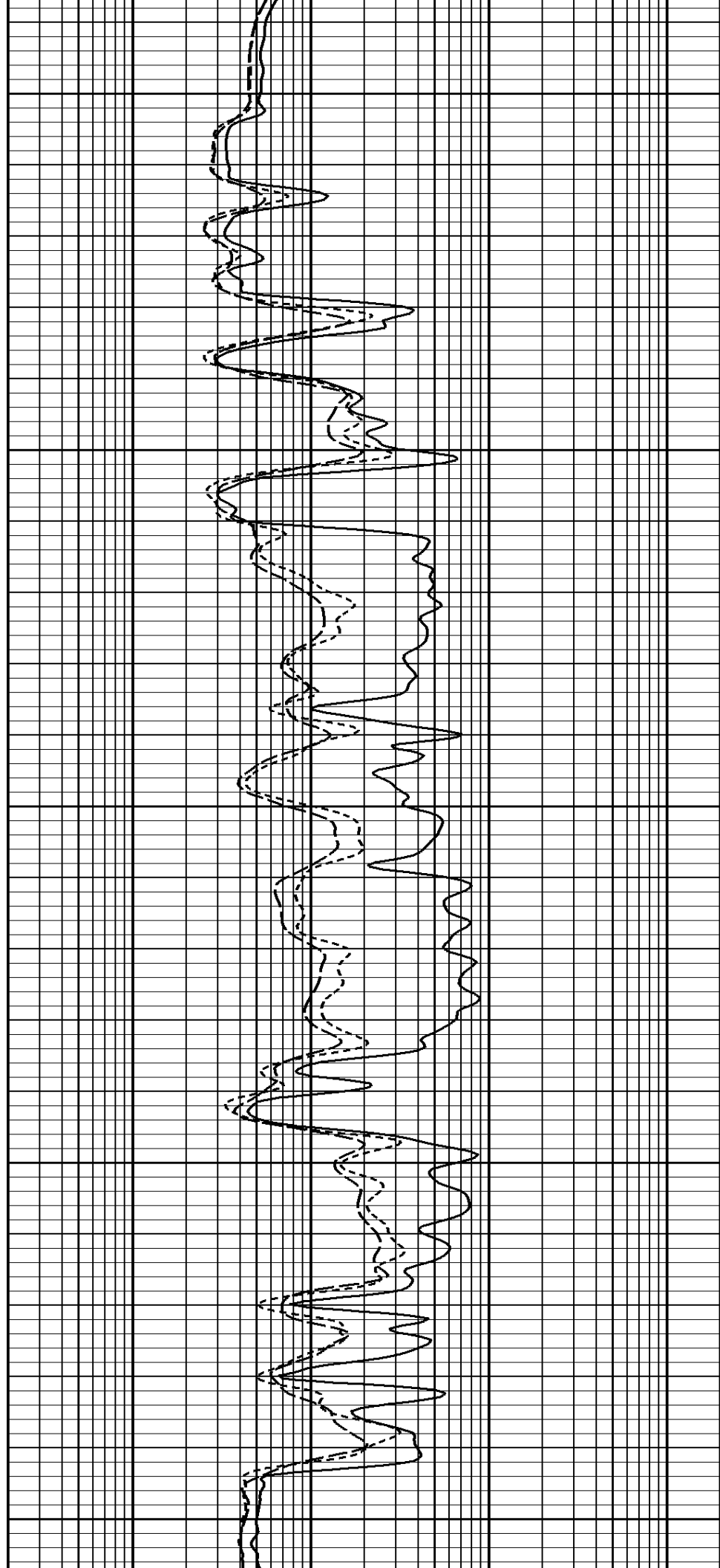
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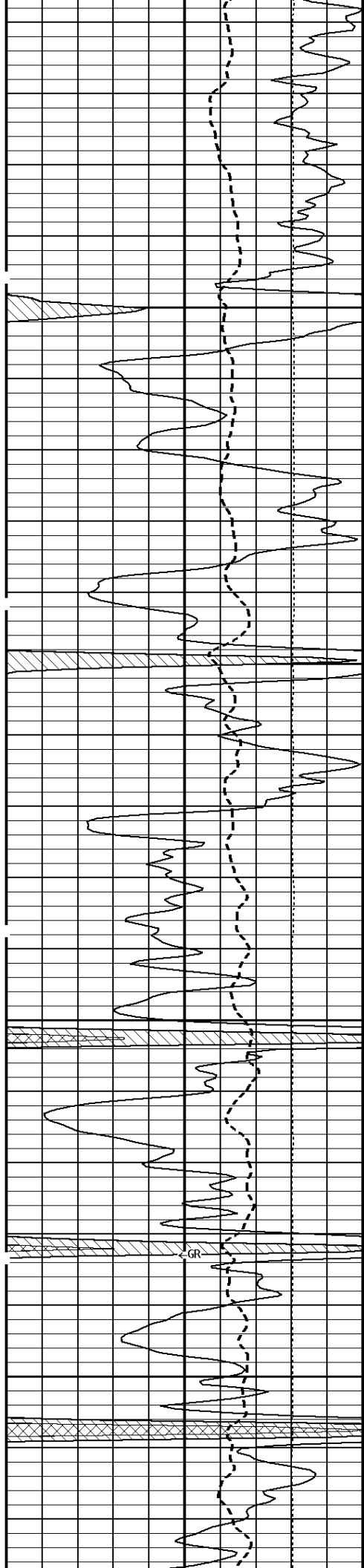




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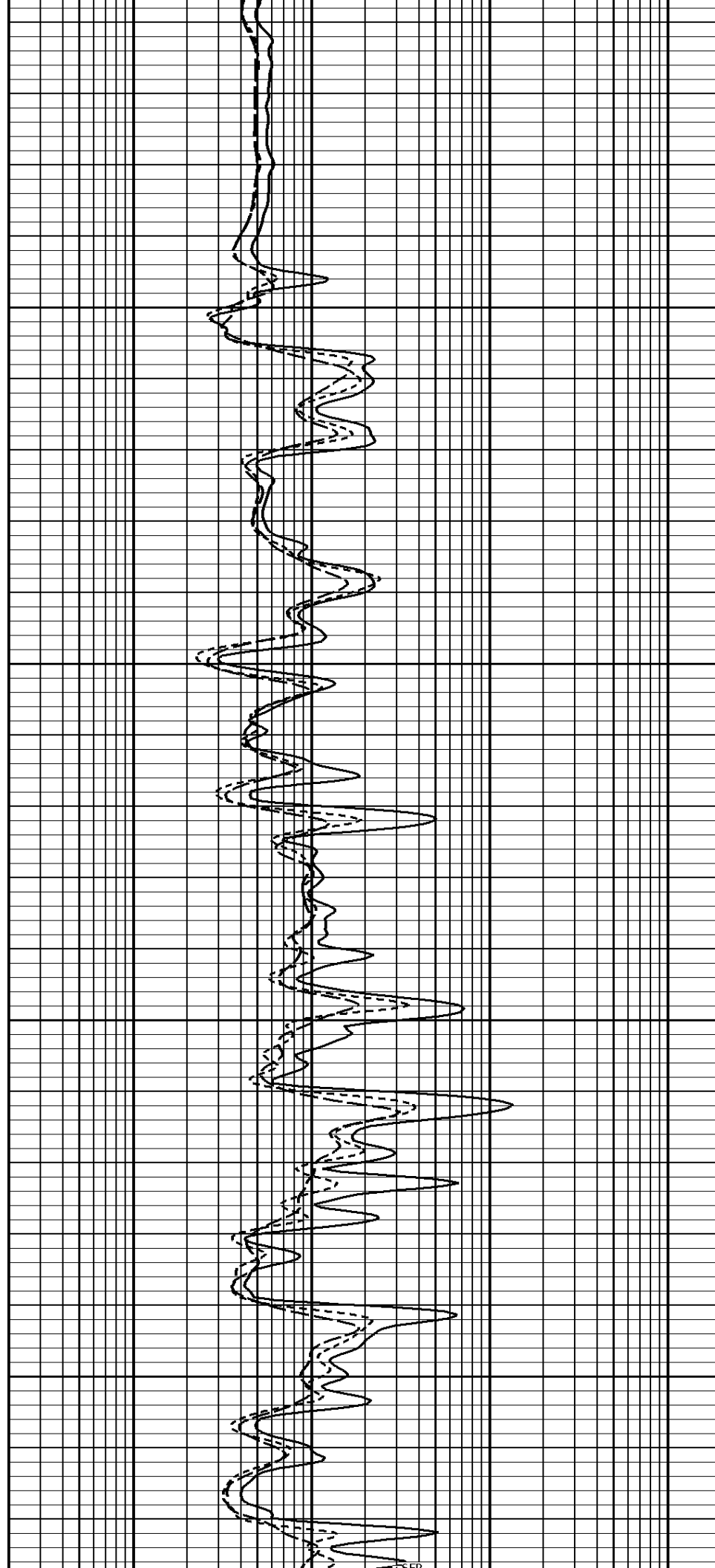
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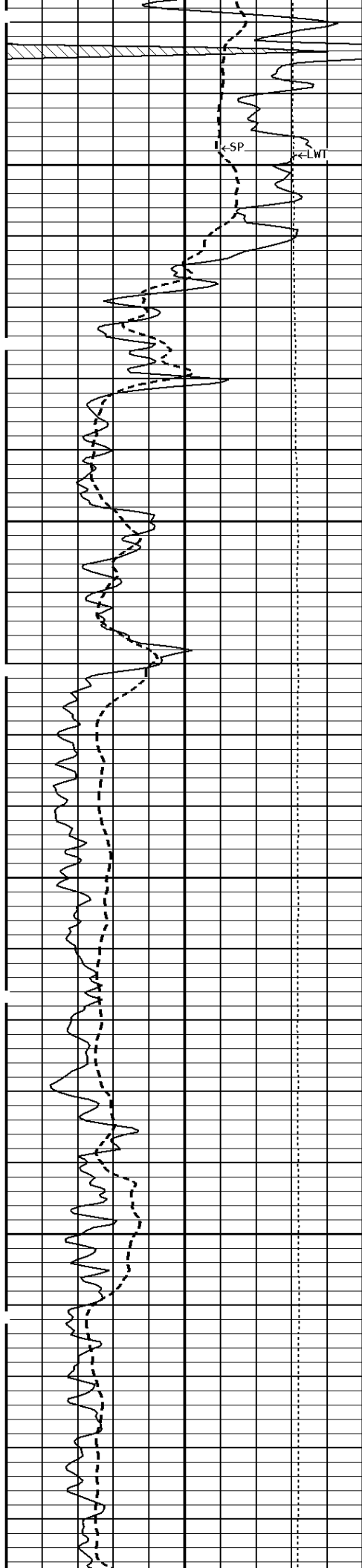




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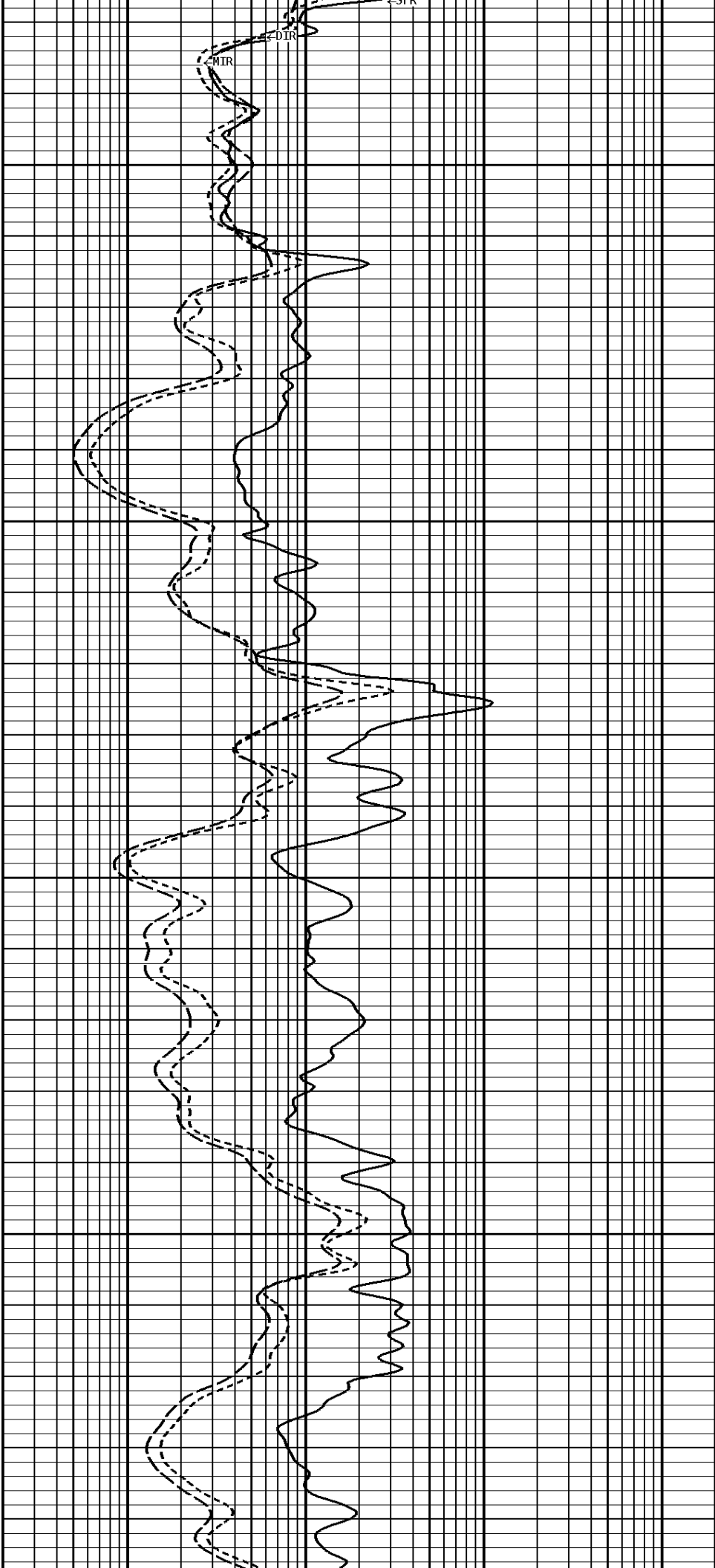
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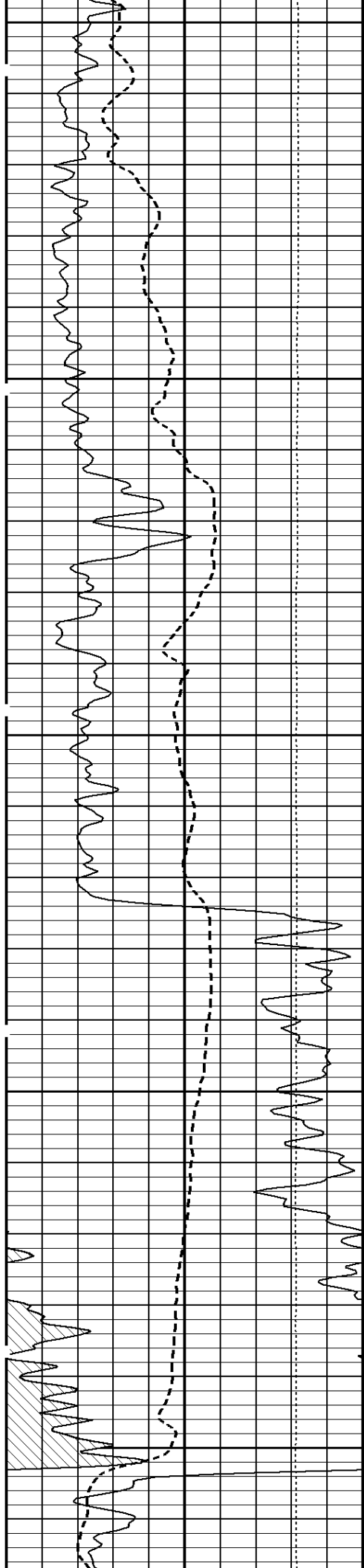


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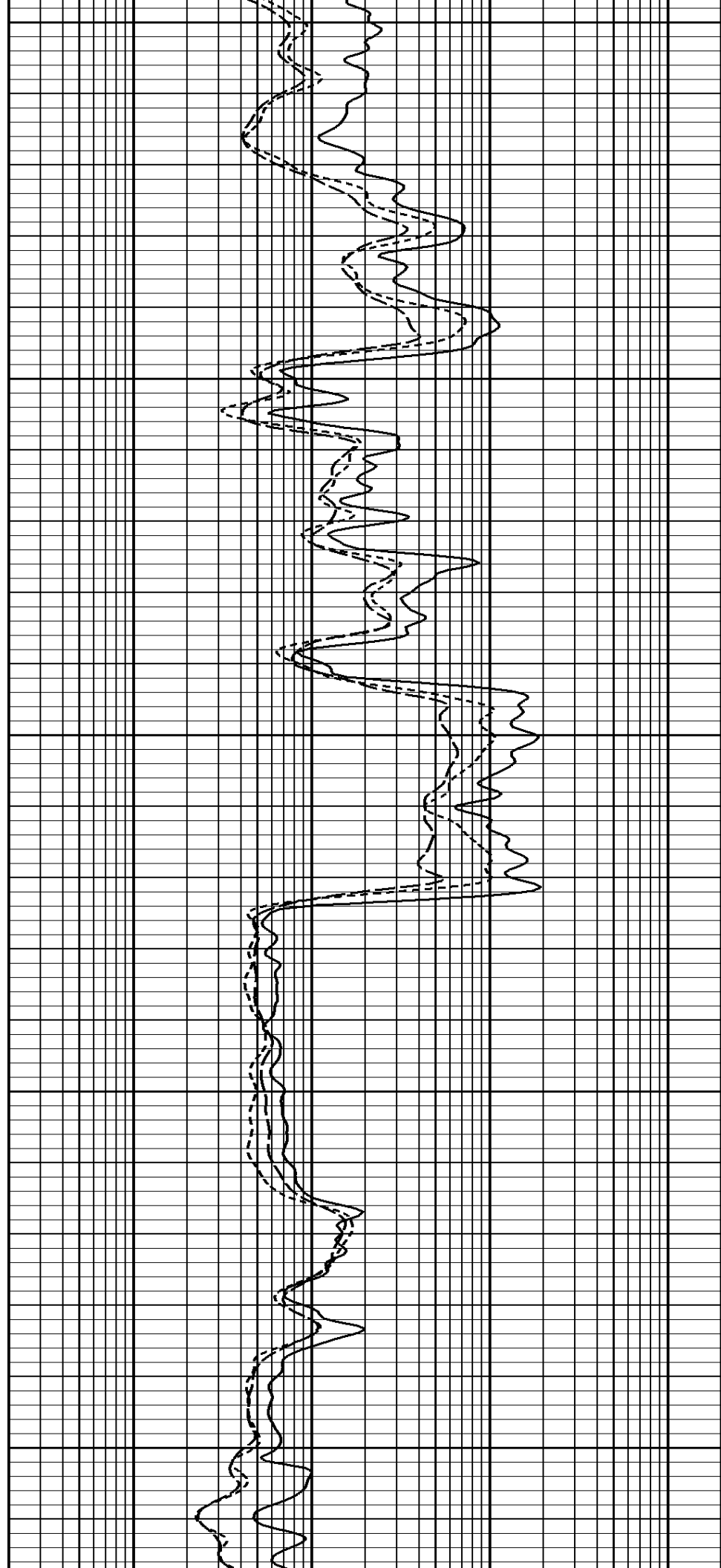
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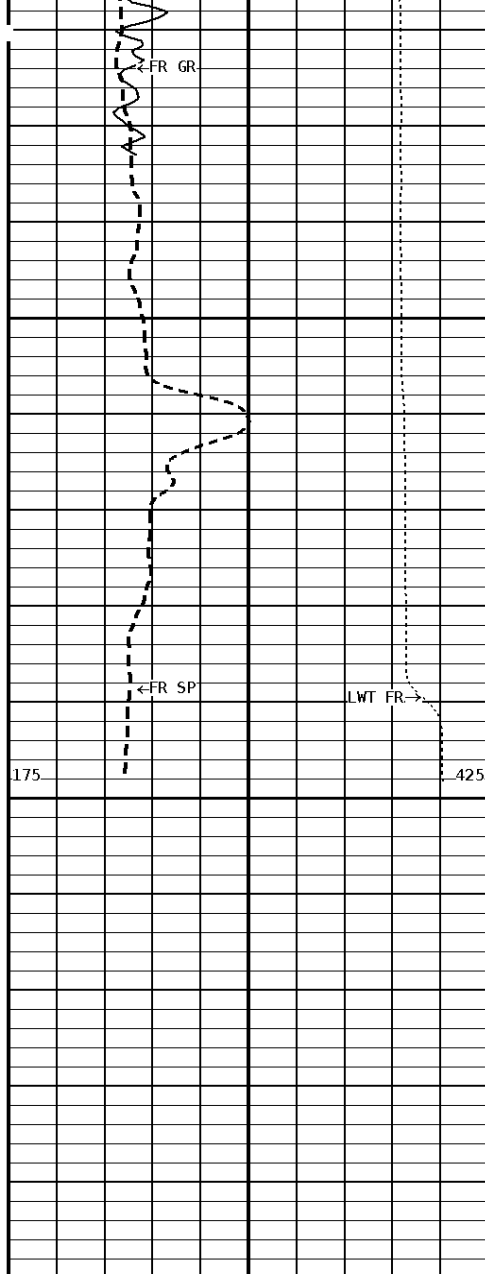


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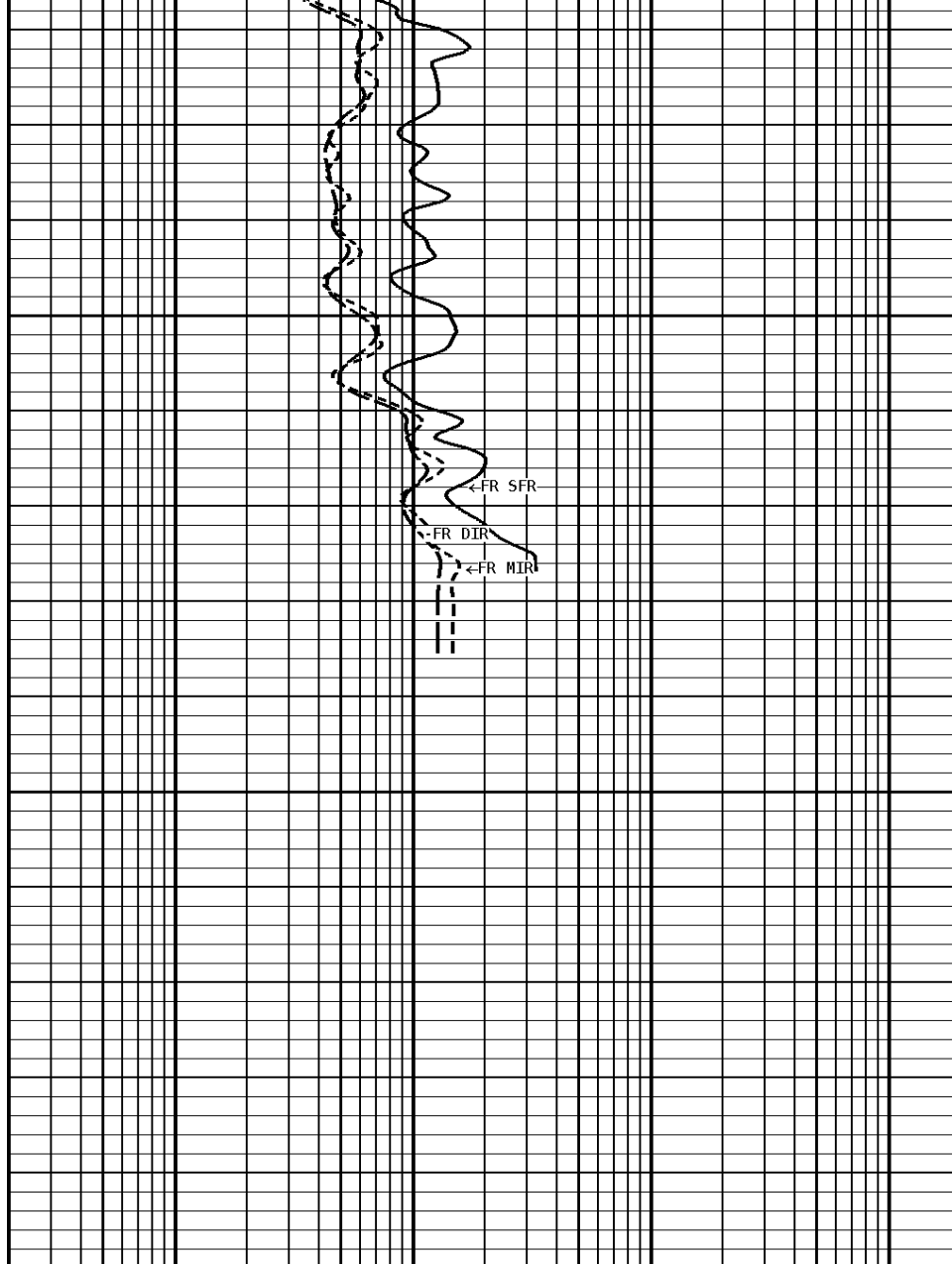
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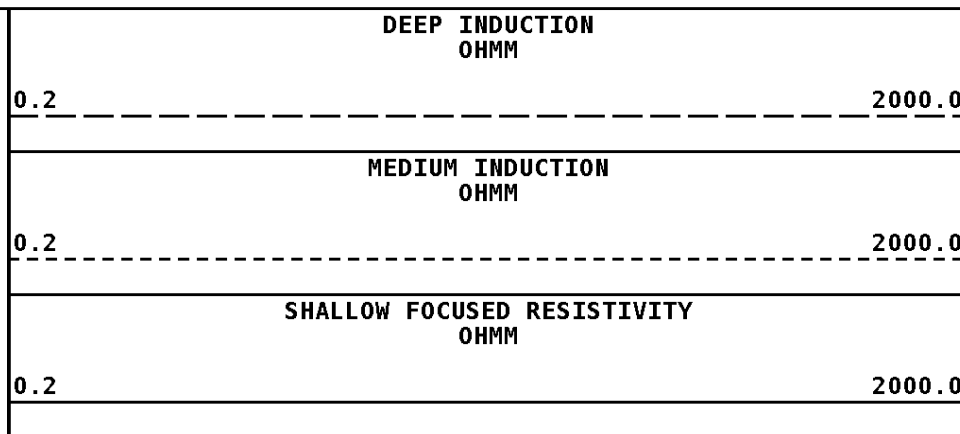
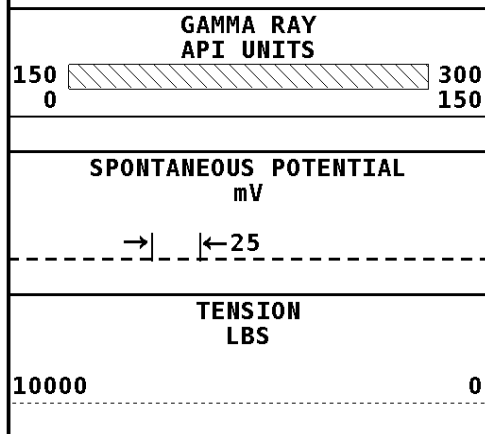


3290

File #1.1.3



1:240 MAIN SECTION

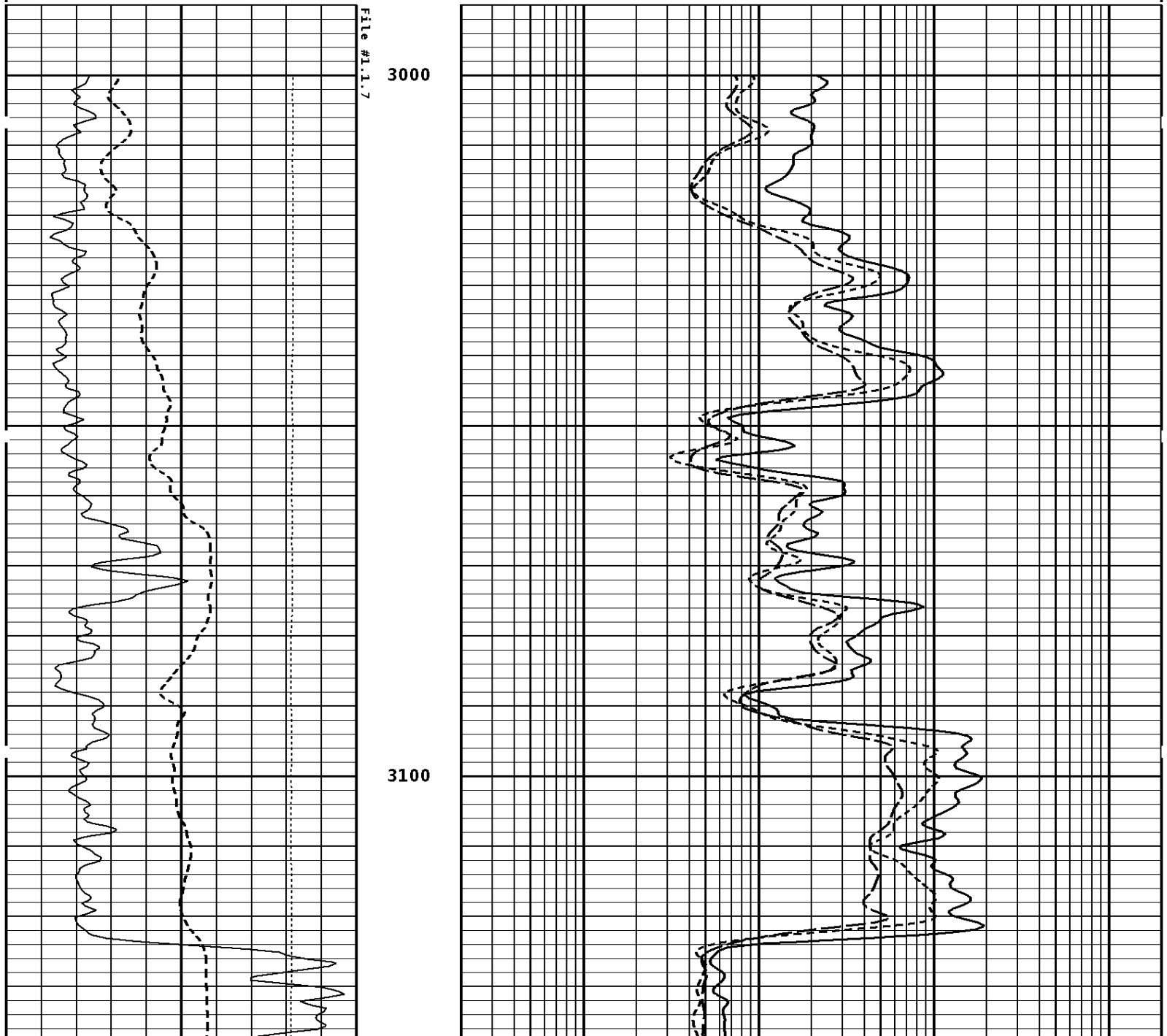


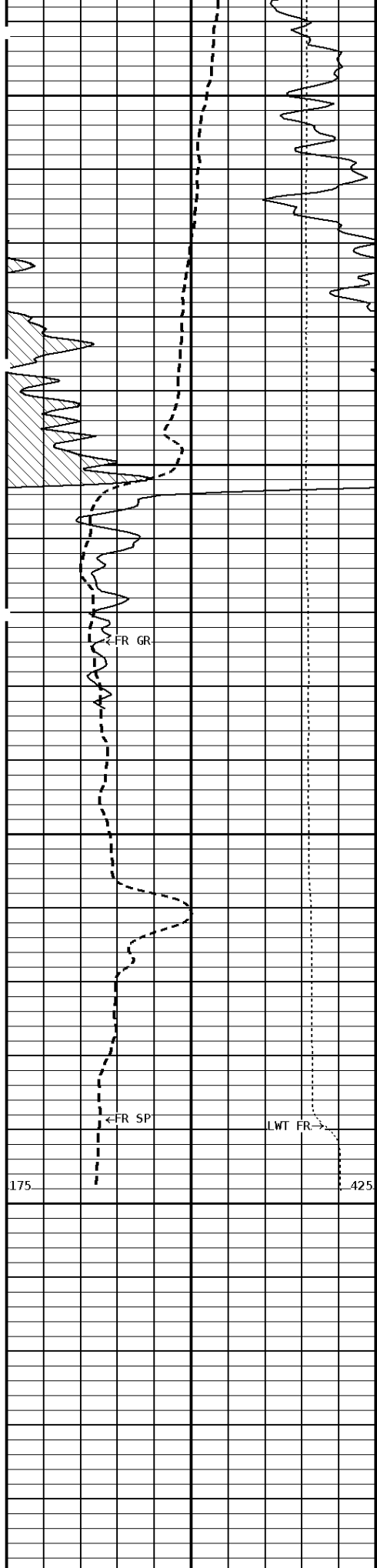
* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet			
Drill Bit Size		7.875	in
Resistivity Of Mud		0.200	ohm/m
Resistivity Of Mud Temperature		80.00	degF

TENSION LBS 1000000		SHALLOW FOCUSED RESISTIVITY OHMM 0.22000.0
SPONTANEOUS POTENTIAL mV → ←25		MEDIUM INDUCTION OHMM 0.22000.0
GAMMA RAY API UNITS 1500300150		DEEP INDUCTION OHMM 0.22000.0

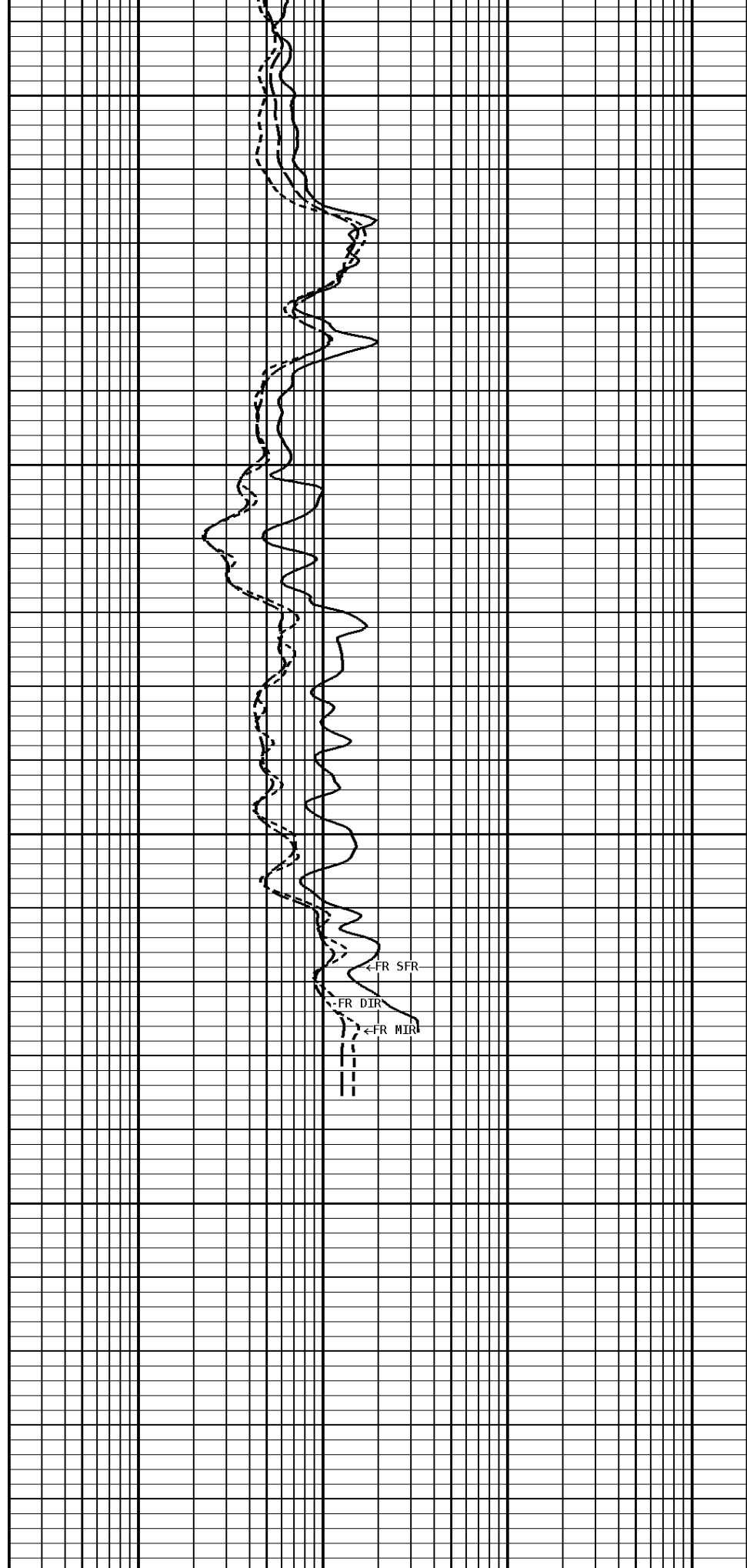
1:240 REPEAT SECTION



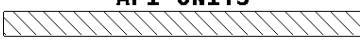


3200

3290



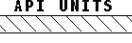
1:240 REPEAT SECTION

GAMMA RAY API UNITS 150  300 0 150		DEEP INDUCTION OHMM 0.2 ----- 2000.0	
SPONTANEOUS POTENTIAL mV → ← 25		MEDIUM INDUCTION OHMM 0.2 ----- 2000.0	
TENSION LBS 10000 ----- 0		SHALLOW FOCUSED RESISTIVITY OHMM 0.2 ----- 2000.0	

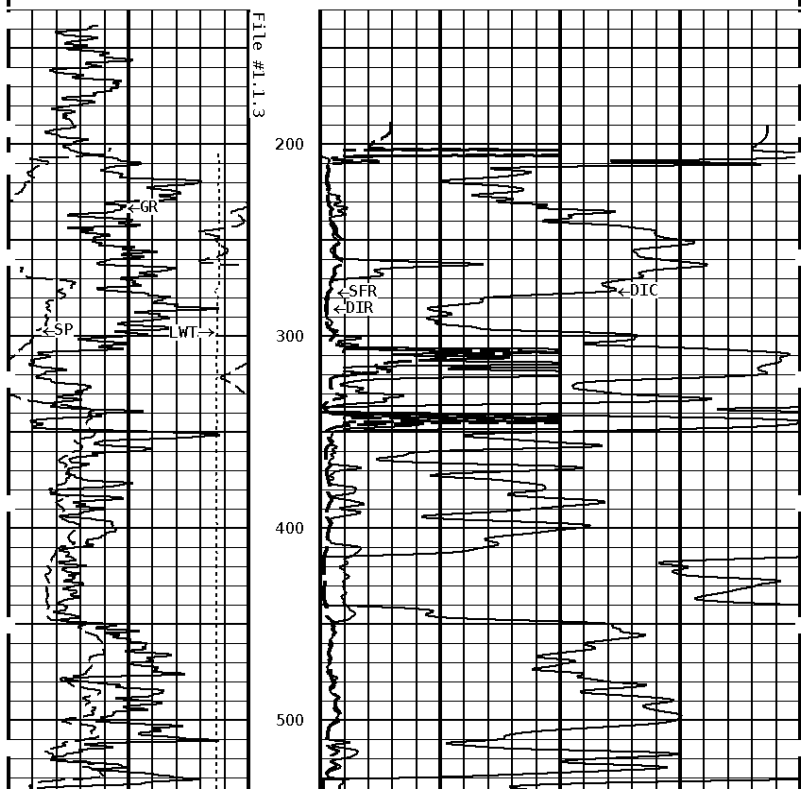
*** Borehole Zone Factors ***

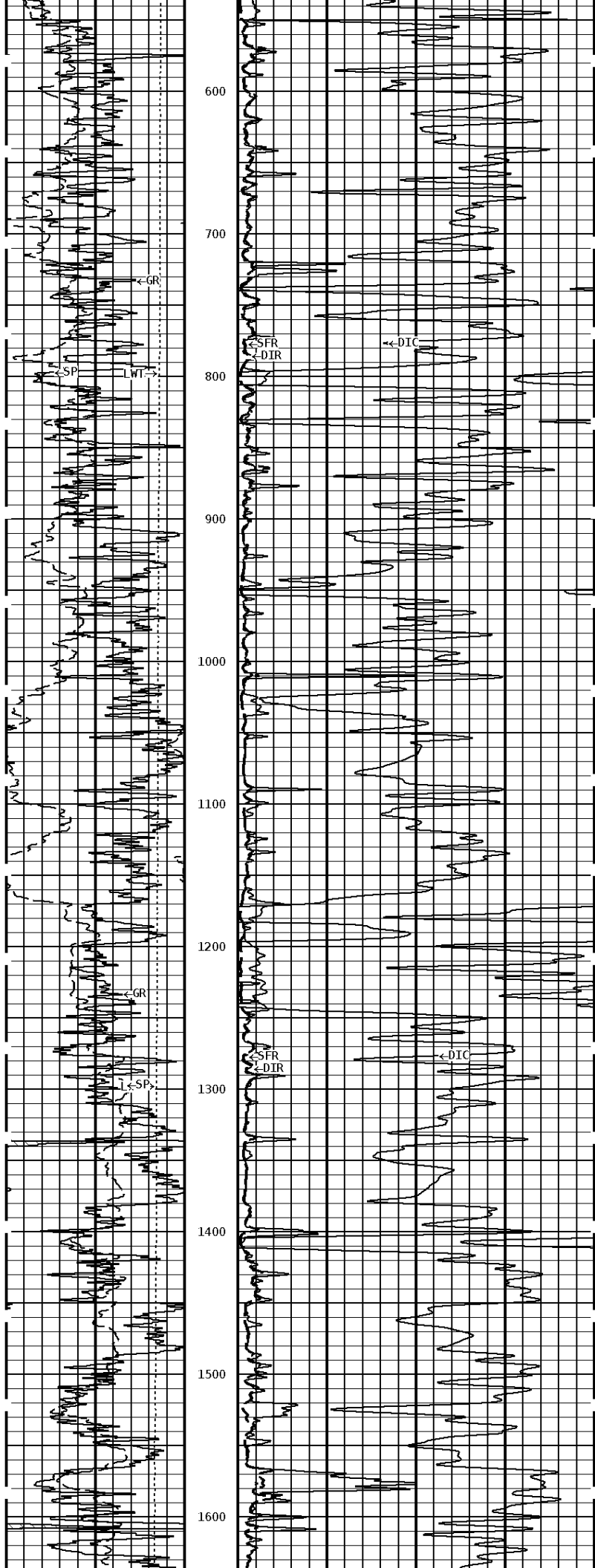
Zone 1 99999.0 to 0.0 Feet			
Drill Bit Size	_____	7.875	in
Resistivity Of Mud	_____	0.200	ohm/m
Resistivity Of Mud Temperature	_____	80.00	degF

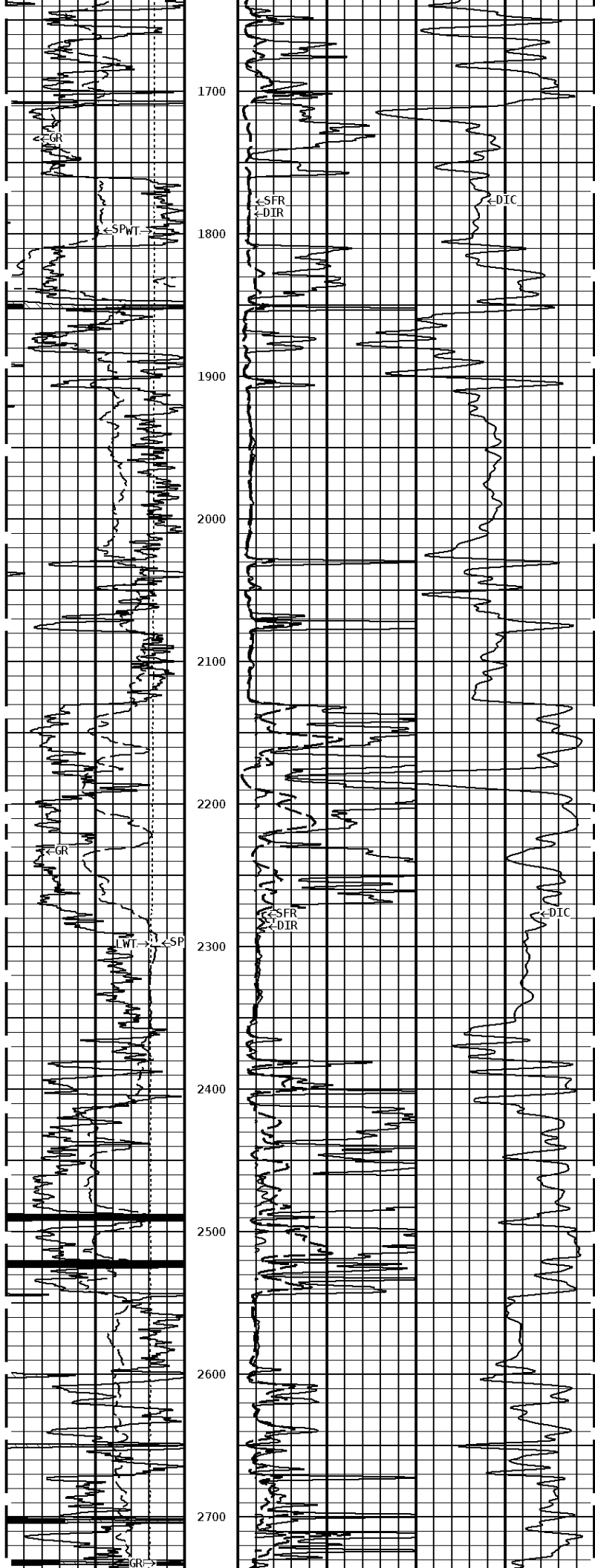
Well File: CG DRILLING HITE_1_AUG28 QUINT	Scale: 1:1200
Segment: V1.D1.S3 Reprocess of MAIN NO CST	Acquired: 2012-08/28 05:40 3.2.0-11172
Reference: 0	Processed: 2012-08/28 06:43 3.2.0-11172

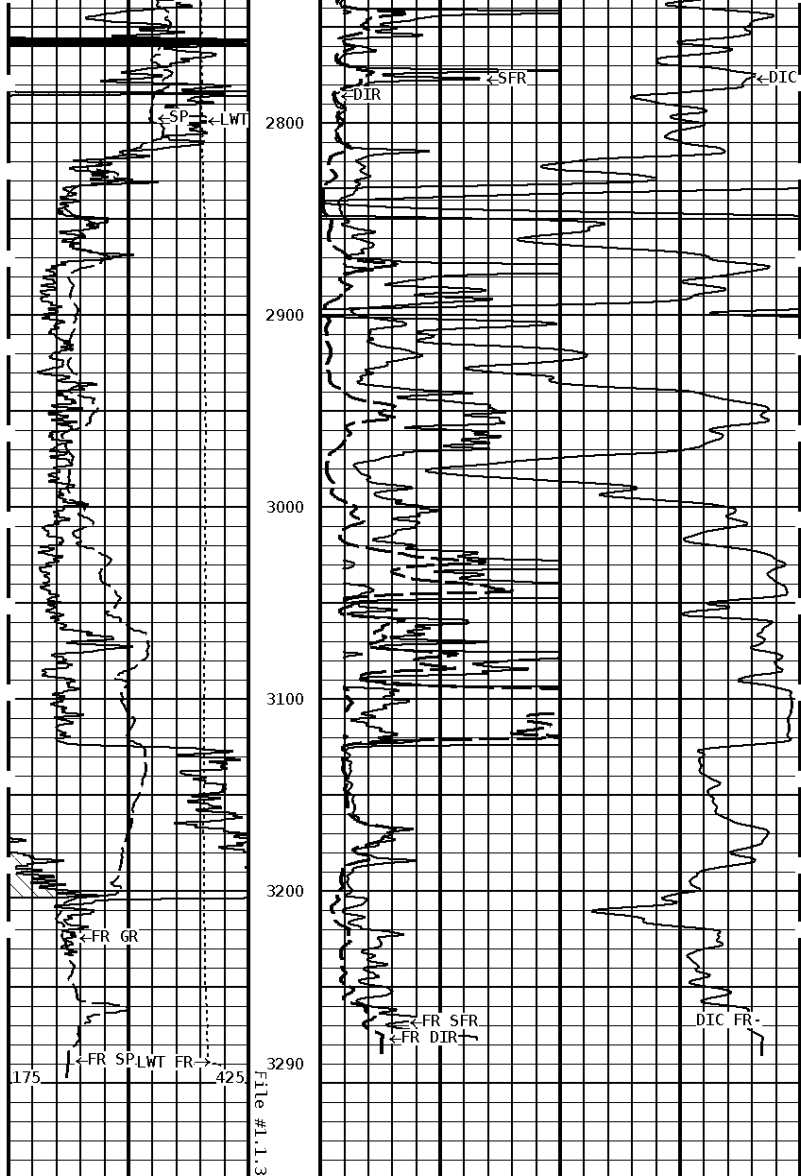
TENSION LBS 10000 ----- 0	DEEP INDUCTION OHMM 0.0 500.0 0.0 50.0
SPONTANEOUS POTENTIAL mV → ← 25	SHALLOW FOCUSED OHMM 0.0 500.0 0.0 50.0
GAMMA RAY API UNITS 150  300 0 150	DEEP CONDUCTIVITY MMHO 2000 1000 1000 0

1:1200 MAIN SECTION









1:1200 MAIN SECTION

