

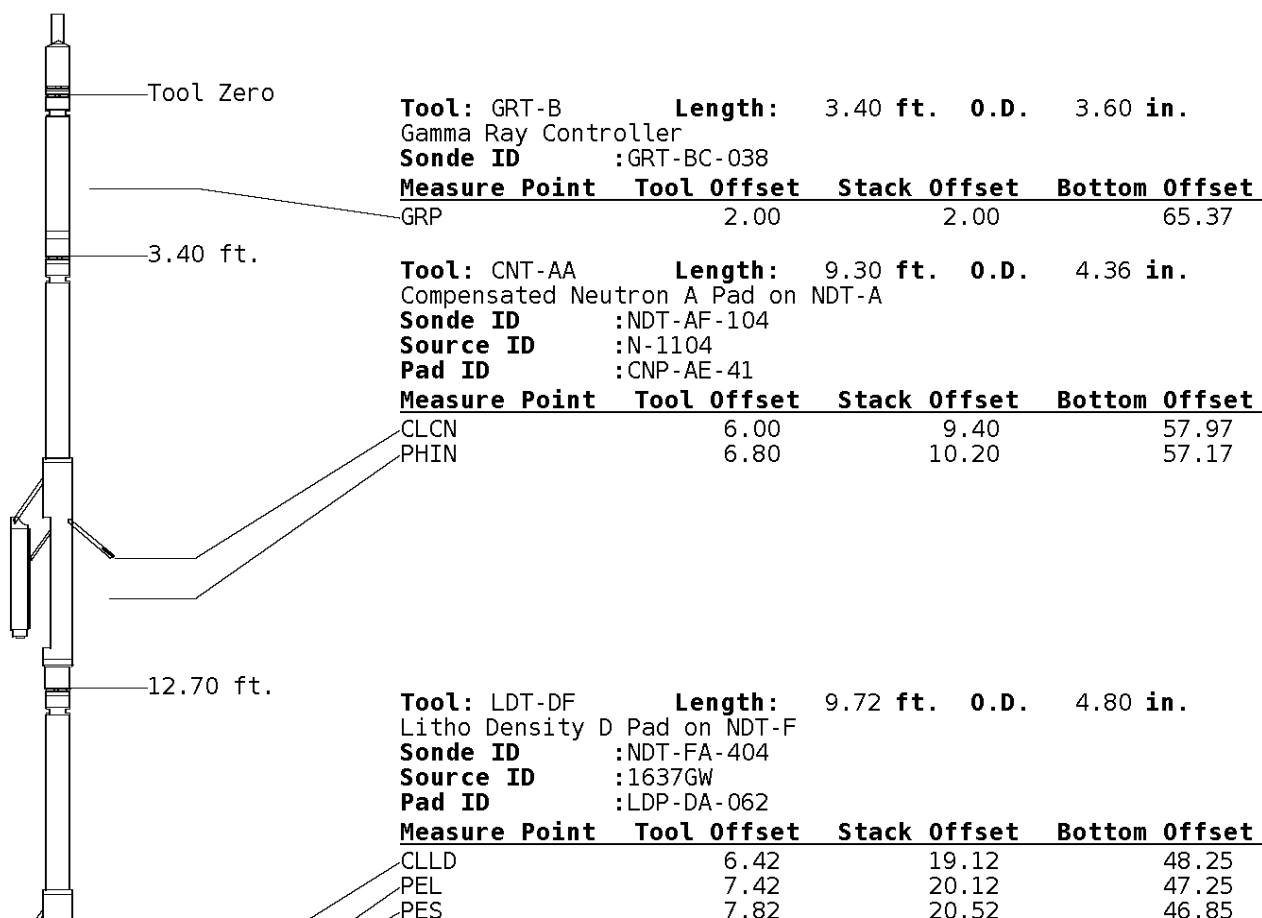
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, CST, MLT AND PIT RUN IN COMBINATION
CALIPERS ORIENTED ON X-Y AXIS
2.71 G/CC USED TO CALCULATE POROSITY
ANNULAR HOLE VOLUME CALCULATED USING 5.5" PRODUCTION CASING
PHIN IS CALIPER CORRECTED

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

OPERATORS:
D. RAGSDALE
J. VAUGHN

Tool String Schematic

Total Tool Length - 67.37 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 1171.00 lbs.



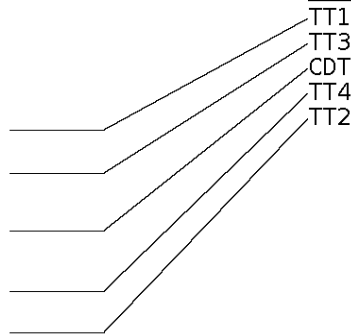


LDEN	7.62	20.32	47.05
LCOR	7.62	20.32	47.05

22.42 ft.

Tool: CST-AD **Length:** 13.80 ft. **O.D.** 3.60 in.
Open Hole Sonic
Sonde ID : CST-AB-24

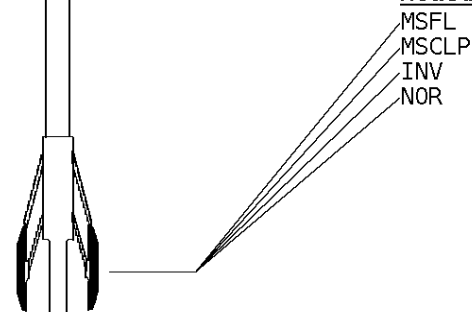
Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	27.22	40.15
TT3	5.80	28.22	39.15
CDT	7.30	29.72	37.65
TT4	8.80	31.22	36.15
TT2	9.80	32.22	35.15



36.22 ft.

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
Micro Spherically Focused (IC)
Sonde ID : MST-DA-13

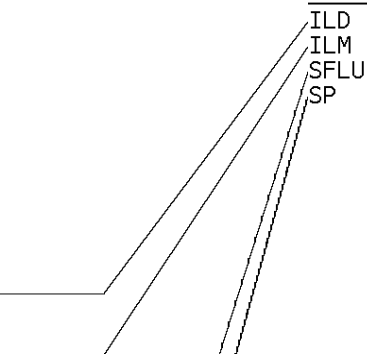
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	43.82	23.55
MSCLP	7.60	43.82	23.55
INV	7.60	43.82	23.55
NOR	7.60	43.82	23.55



45.88 ft.

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
Phased Dual Induction w/ RM & D
Sonde ID : PIT-AC-043

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	54.80	12.56
ILM	10.10	55.98	11.39
SFLU	17.49	63.37	4.00
SP	20.60	66.48	0.88



LWT — 67.37 ft.

Well File: MERIT_GOERING_JACOB_M-4_JAN27_QUINT

Scale: 1:600

Format: DIL-600

Segment: V1.D1.S7 MAIN

Acquired: 2020-01/27 13:30 3.4.1-13972

Reference: 0

Processed: 2020-01/27 14:53 3.4.1-13972

TENSION
LBS

10000

0

DEEP INDUCTION
OHMM

0.0

500.0

0.0

50.0

SPONTANEOUS POTENTIAL
mV

→

←20

SHALLOW FOCUSED RESISTIVITY
OHMM

0.0

500.0

0.0

50.0

GAMMA RAY
API UNITS

150

0

300

150

DEEP CONDUCTIVITY
MMHO

2000

1000

1000

0

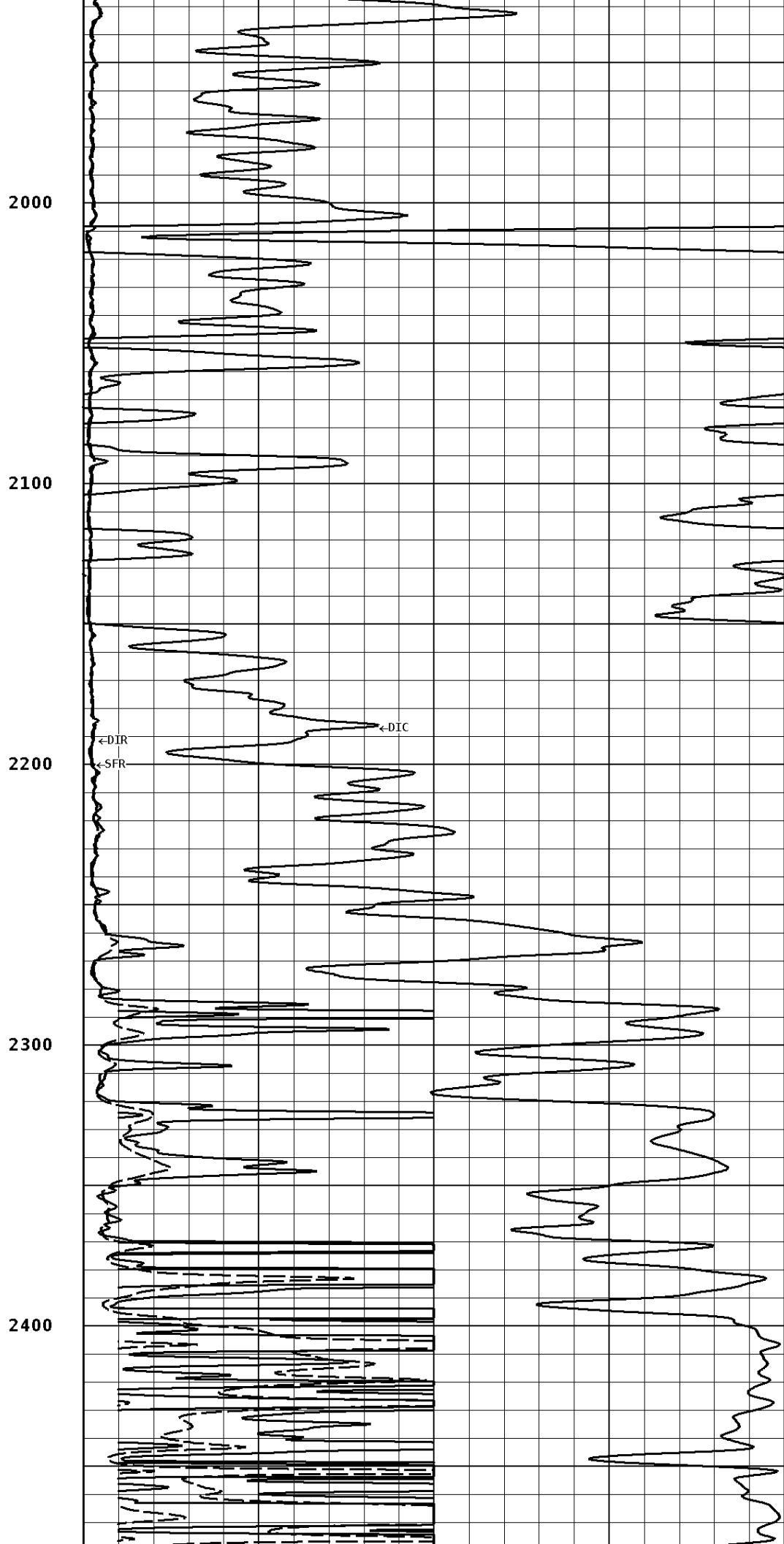
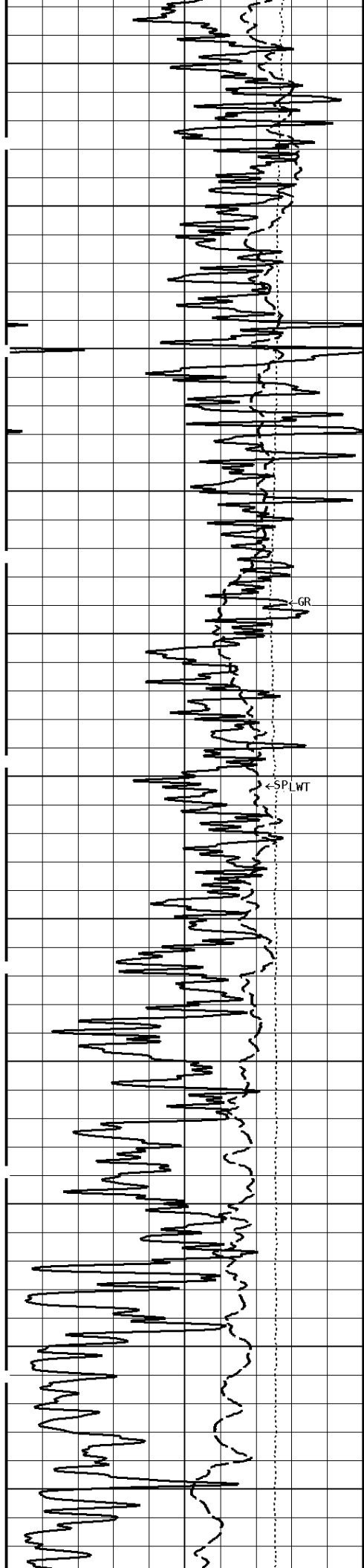
1:600 MAIN SECTION

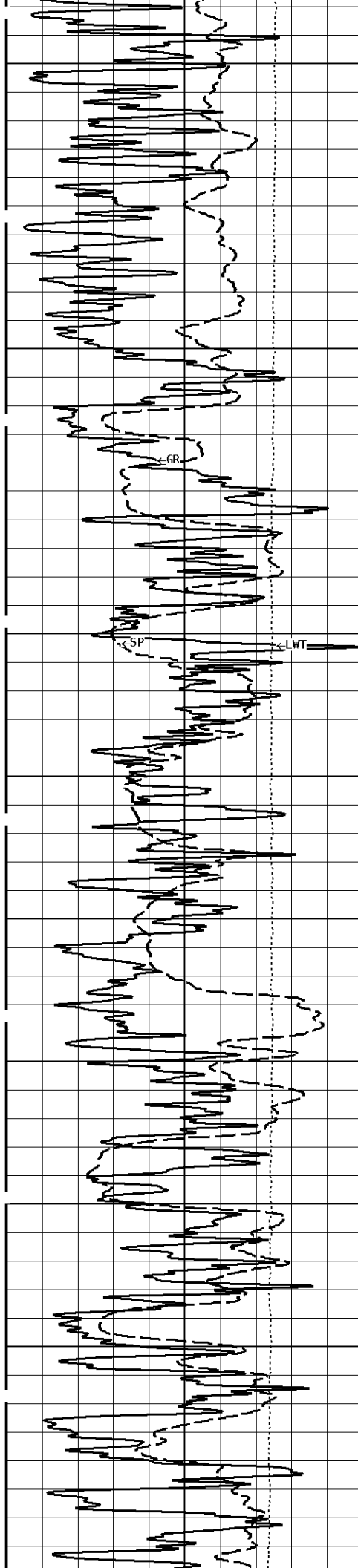
File #1.1.7

1700

1800

1900





2500

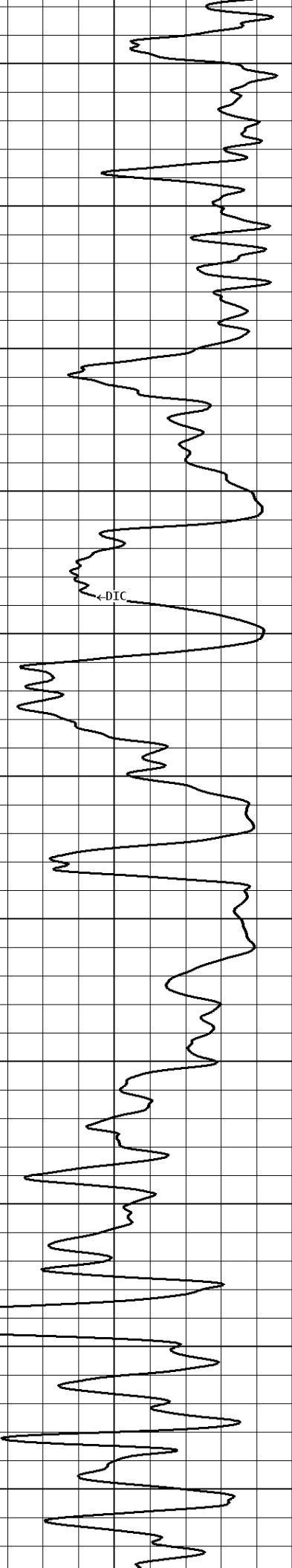
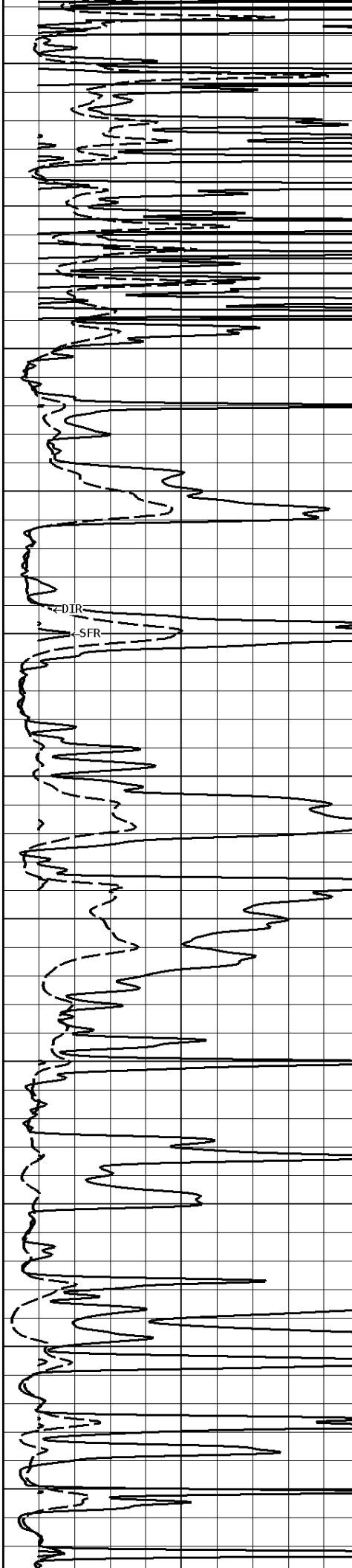
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2700

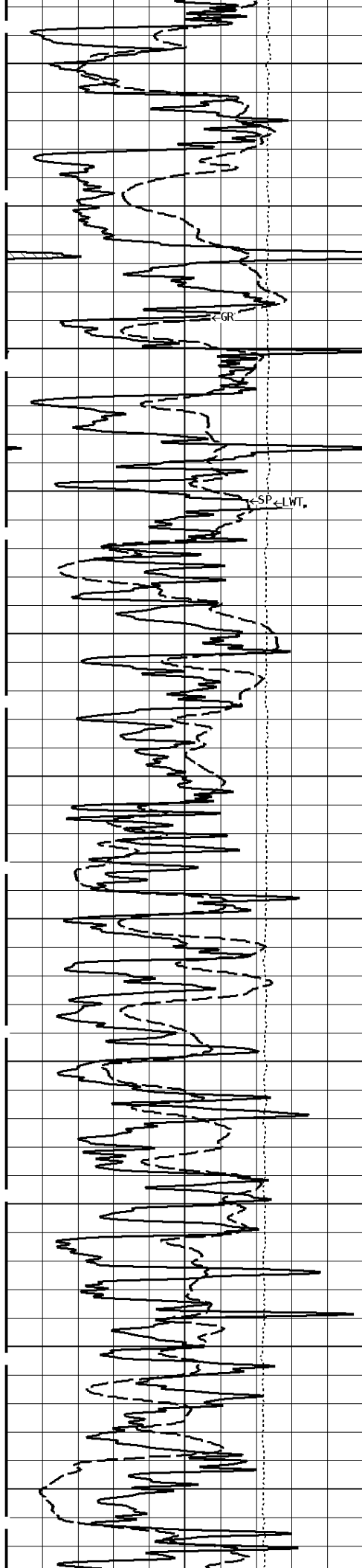
2800

2900

3000



DIC



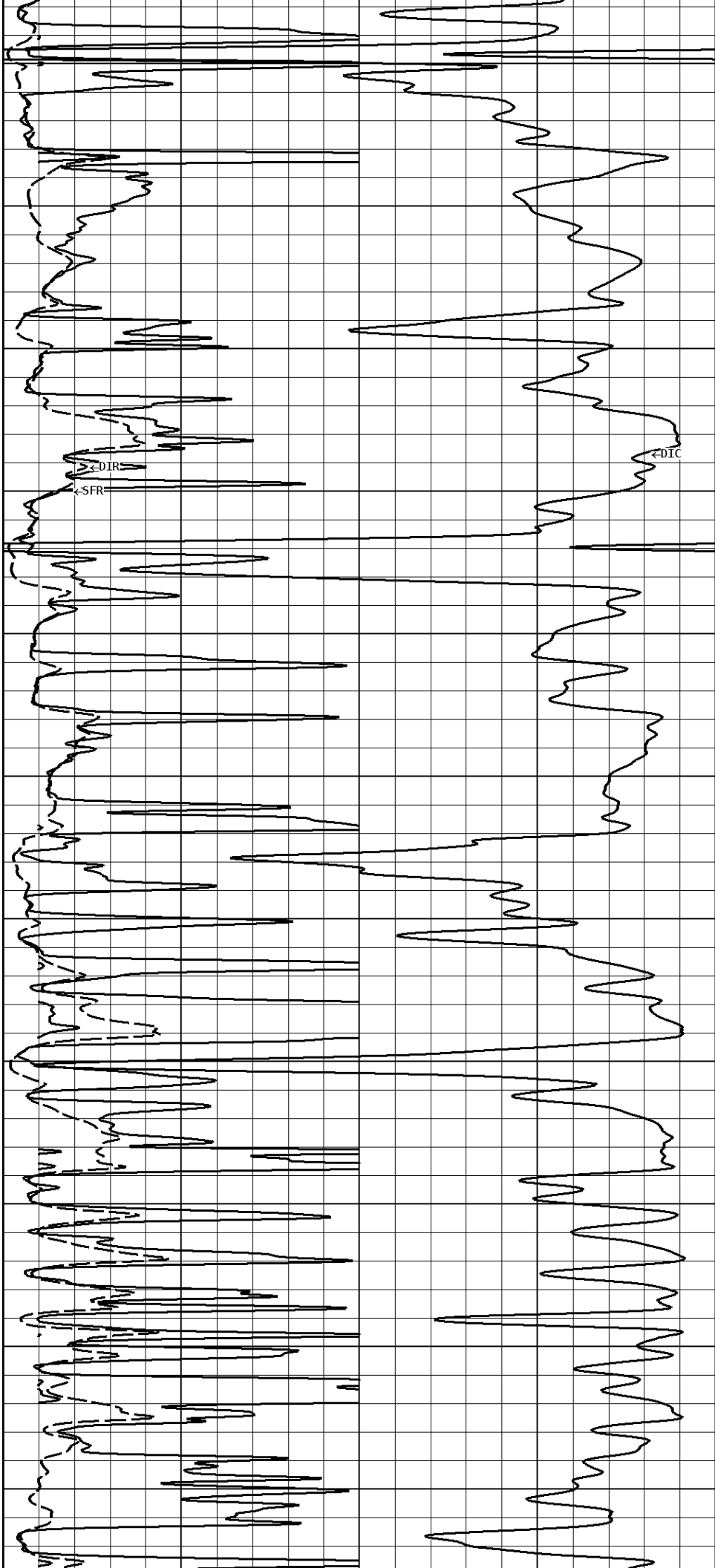
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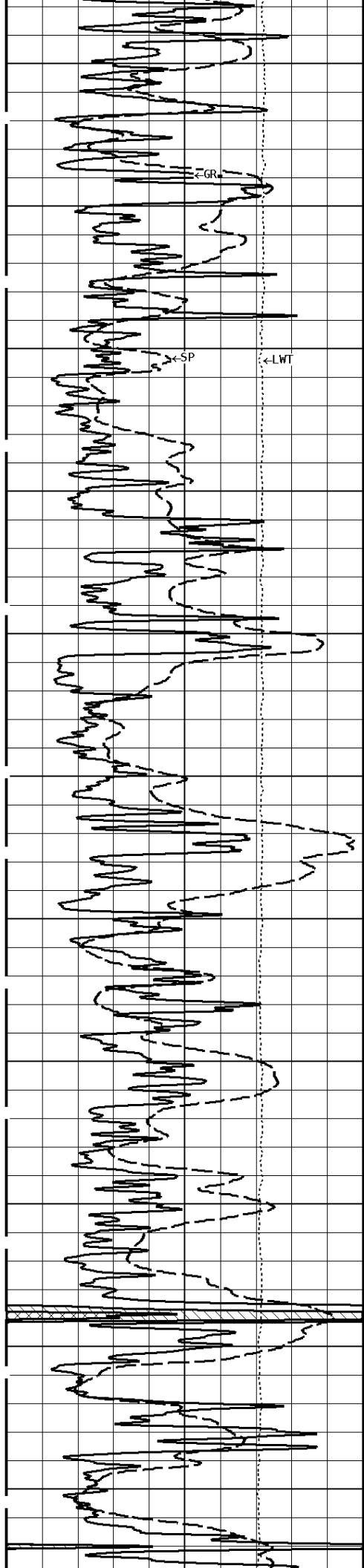
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3300

3400

3500





3600

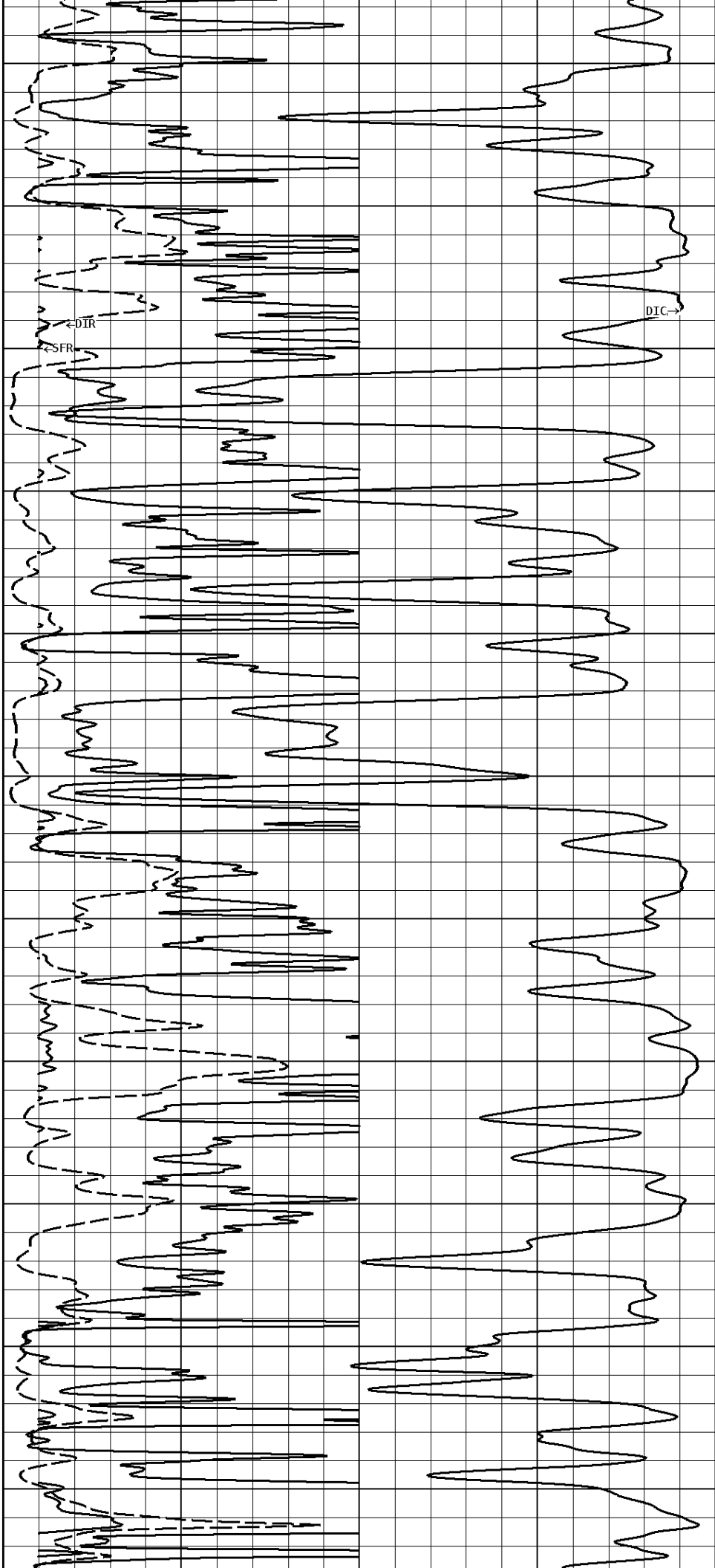
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3800

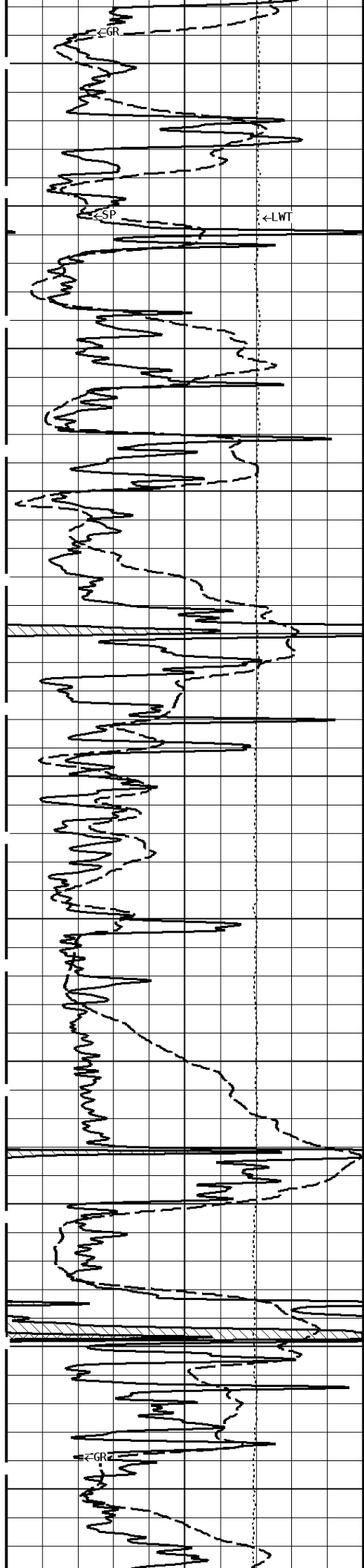
3900

4000

4100



DIC



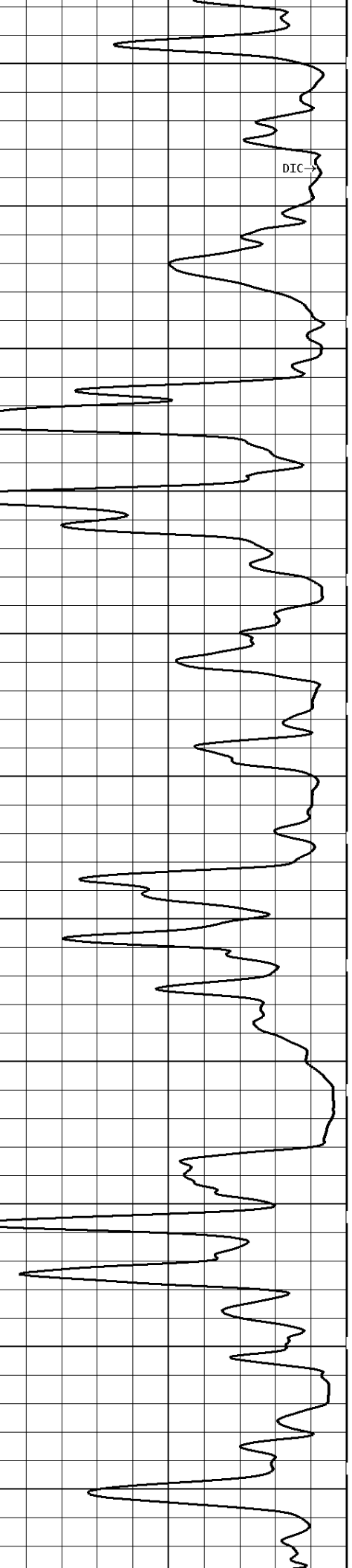
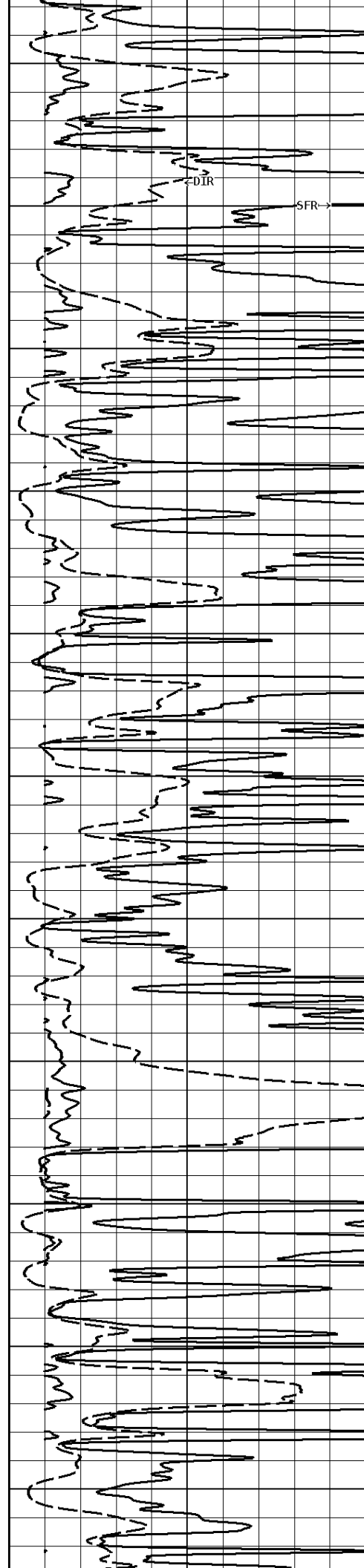
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4300

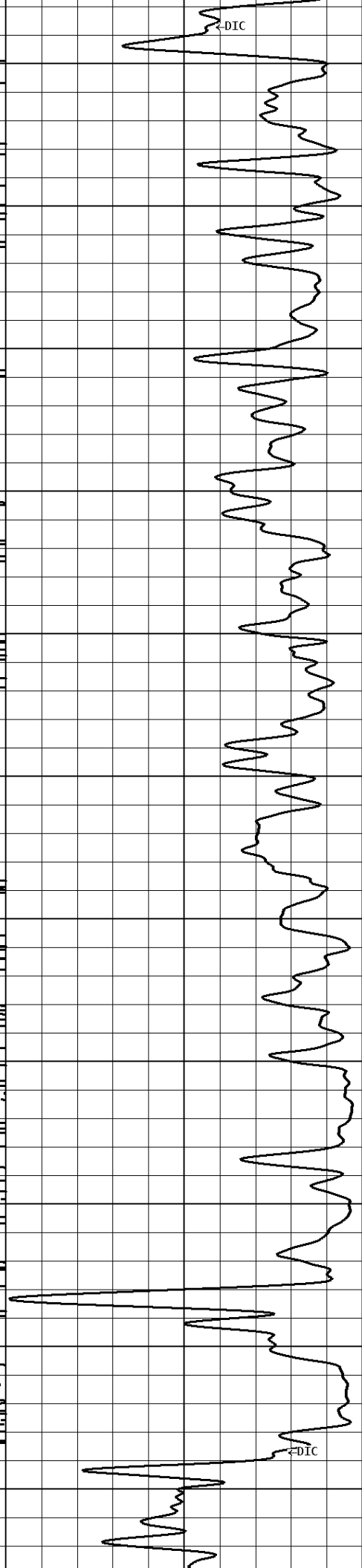
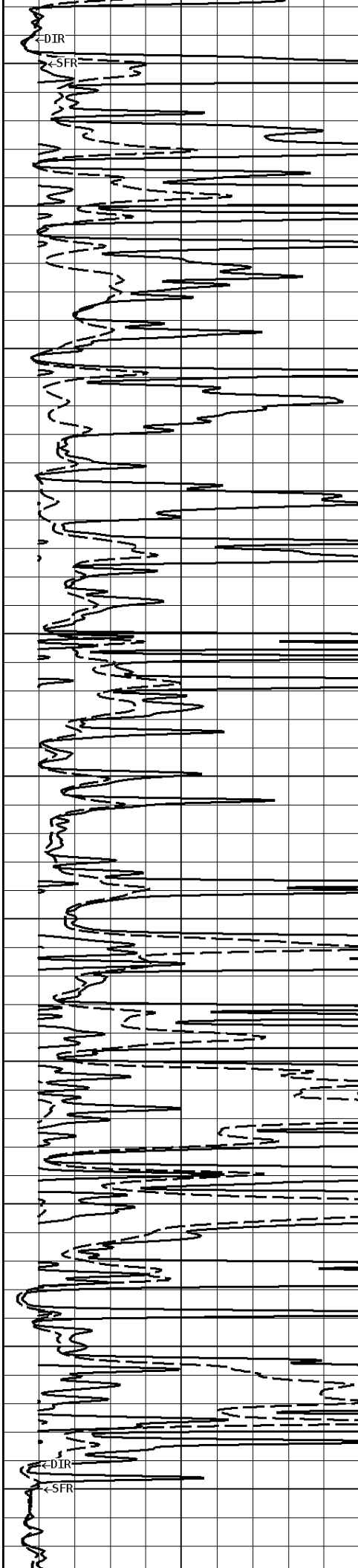
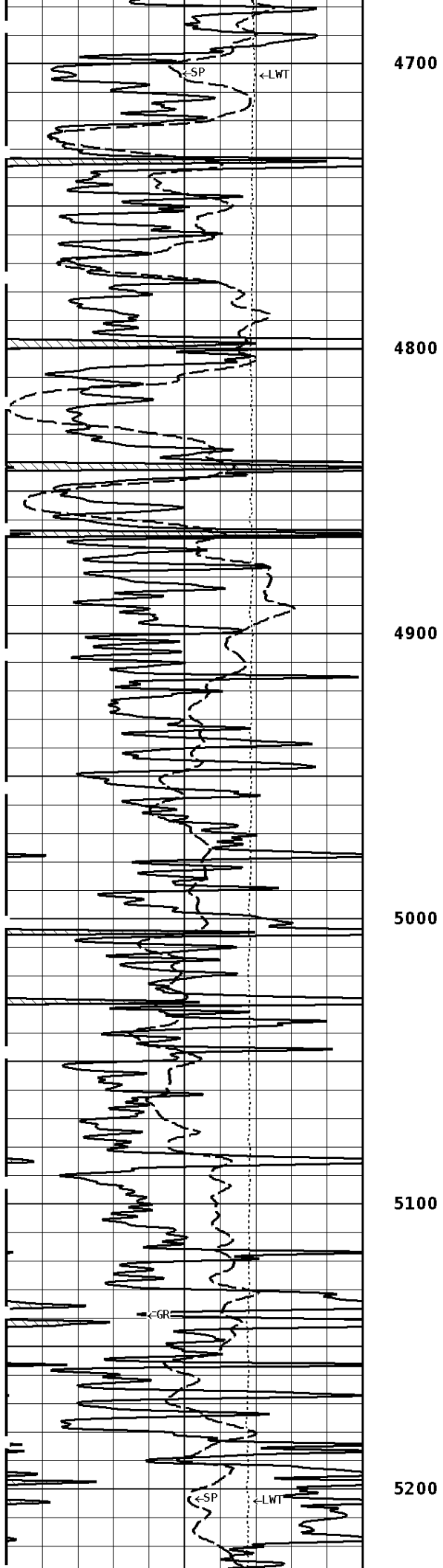
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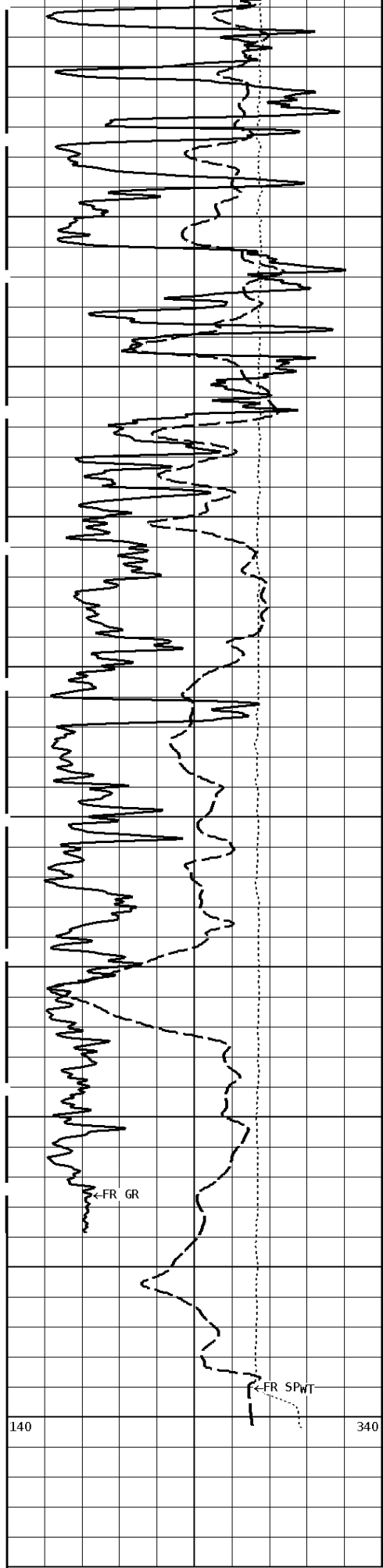
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4600



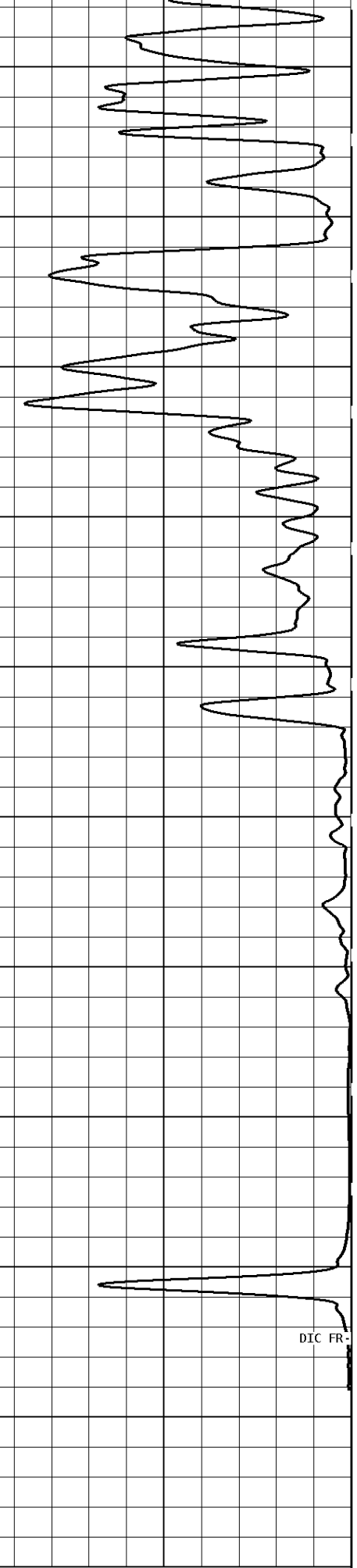
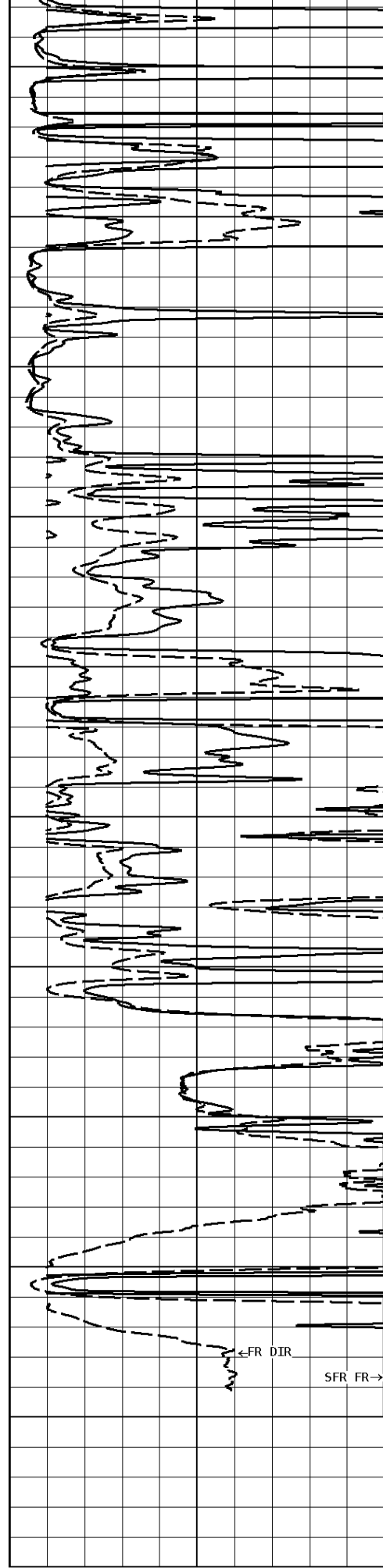
DIC



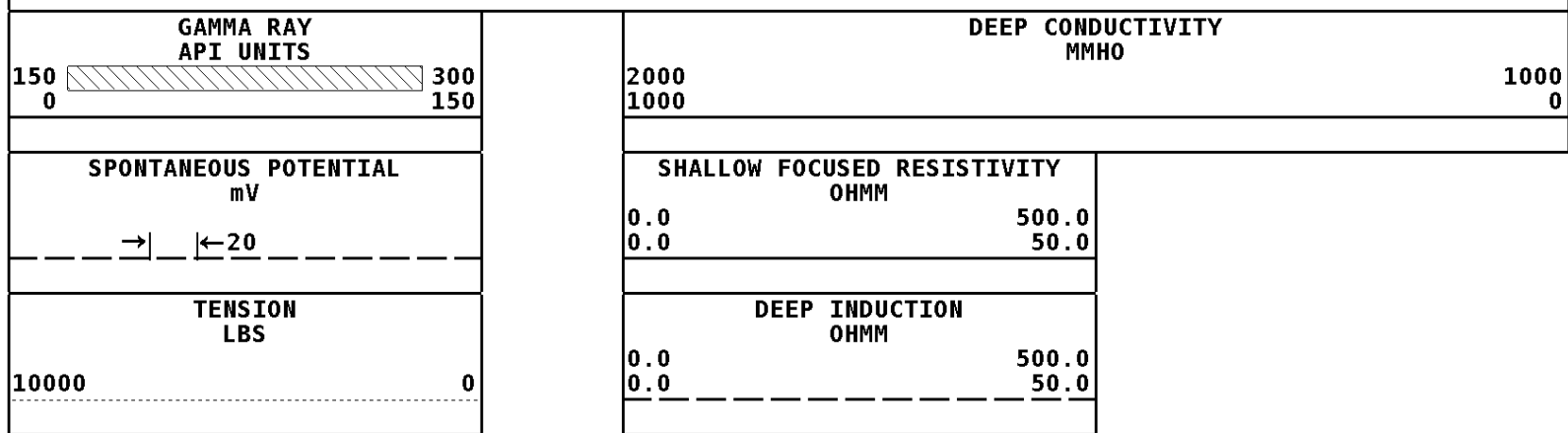


File #1.1.7

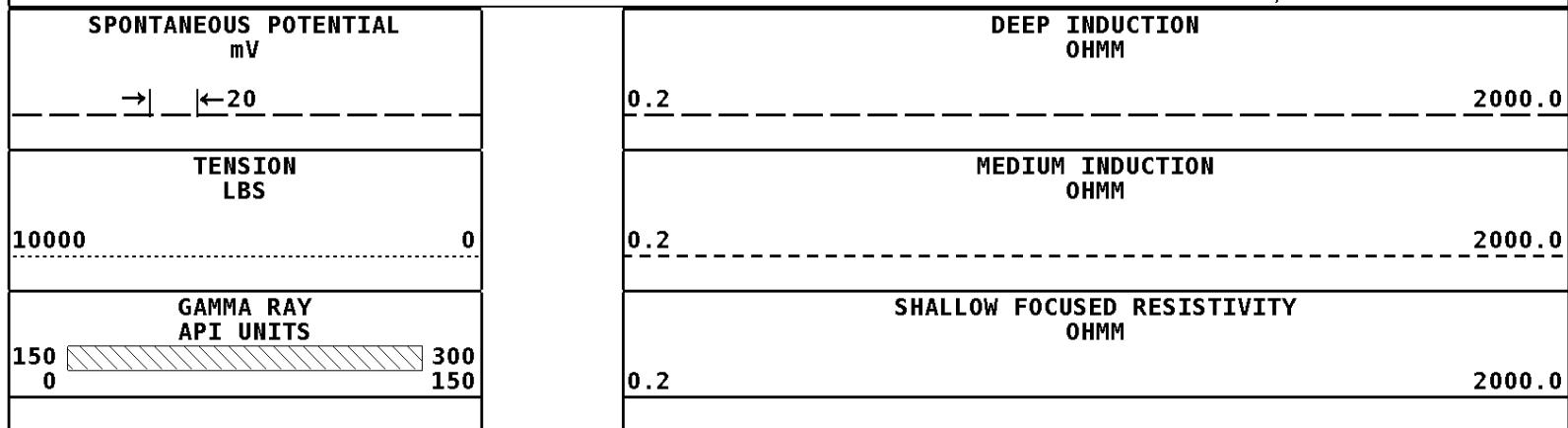
5300
5400
5500
5600
5691



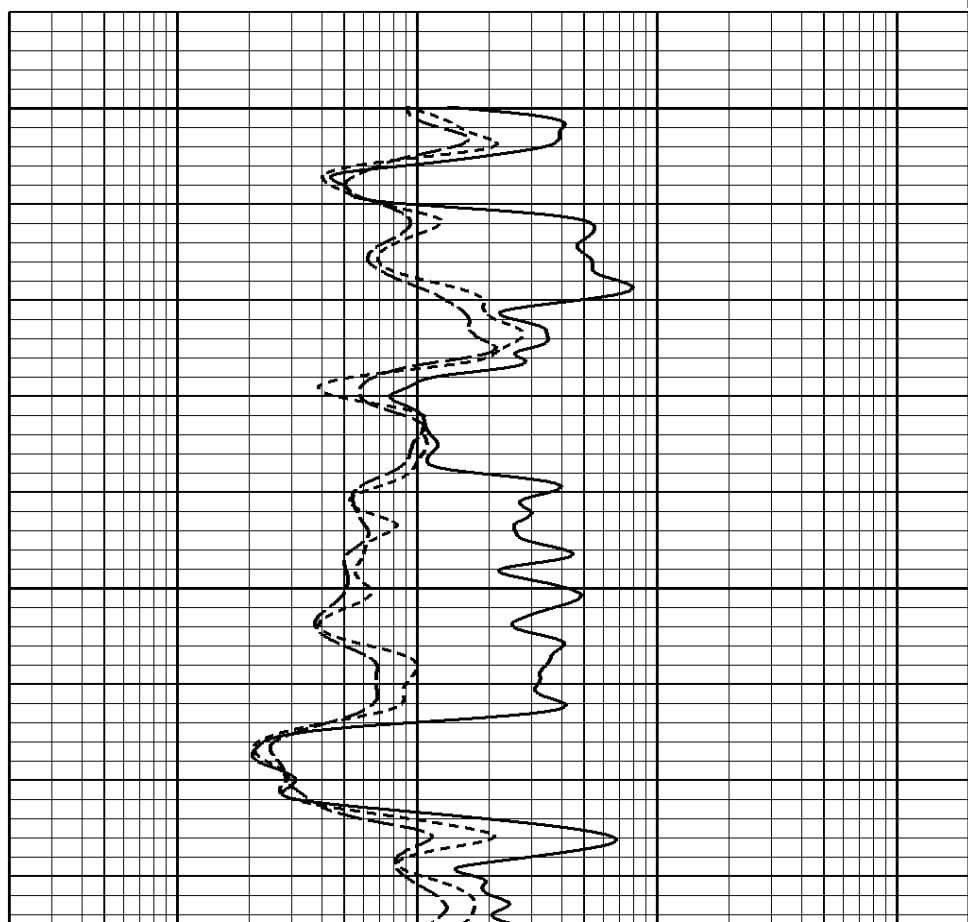
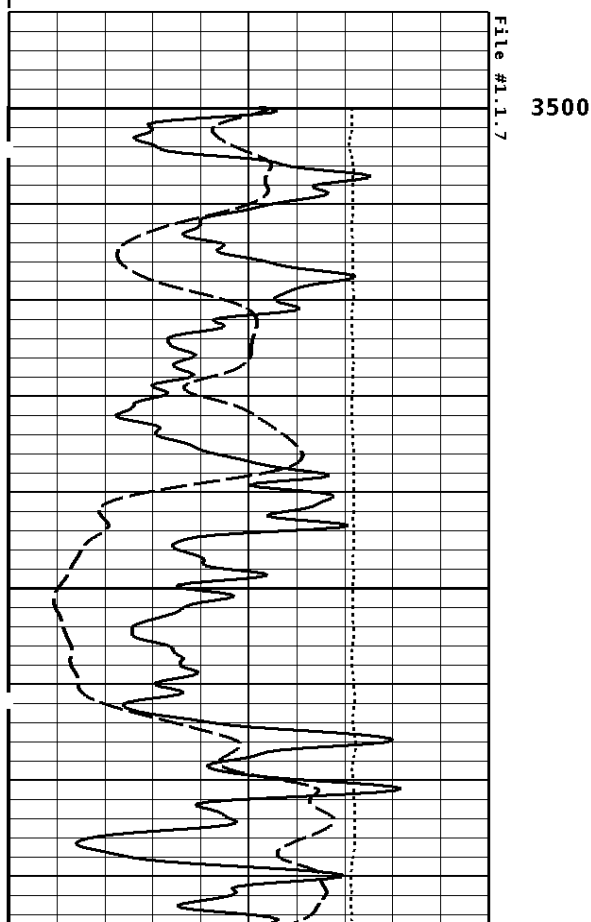
1:600 MAIN SECTION

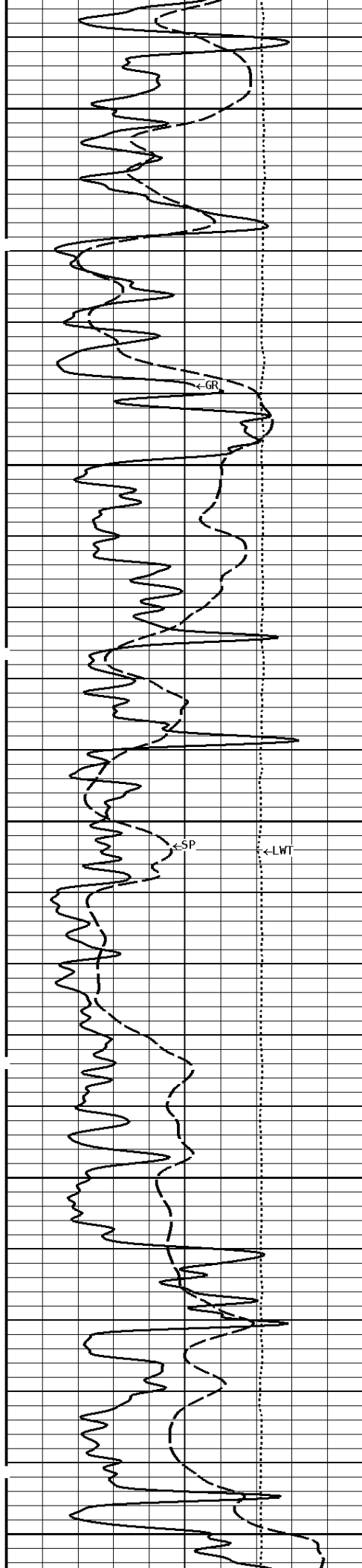


Well File: MERIT_GOERING_JACOB_M-4_JAN27_QUINT	Scale: 1:240	Format: DIL-240
Segment: V1.D1.S7 MAIN	Acquired: 2020-01/27 13:30 3.4.1-13972	
Reference: 0	Processed: 2020-01/27 14:53 3.4.1-13972	



1:240 MAIN SECTION

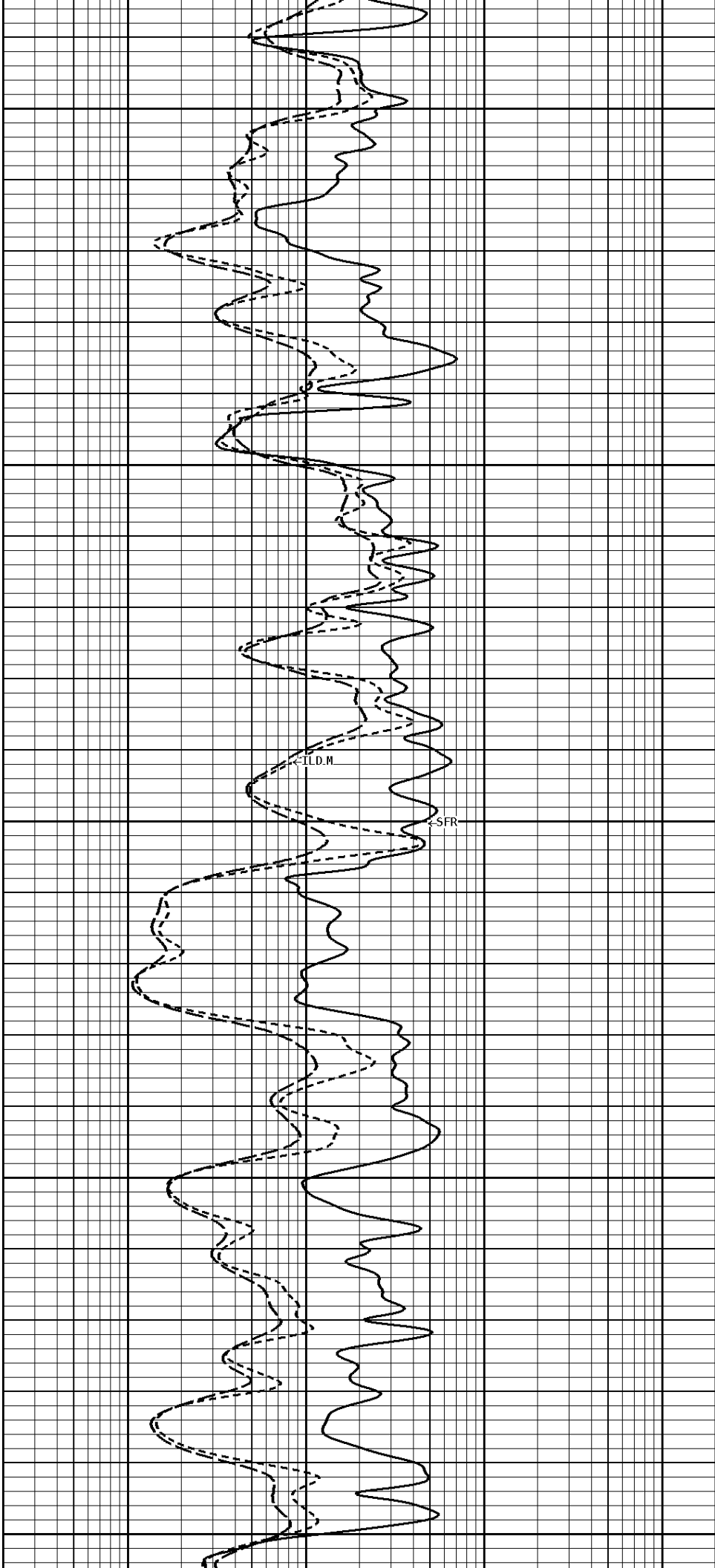


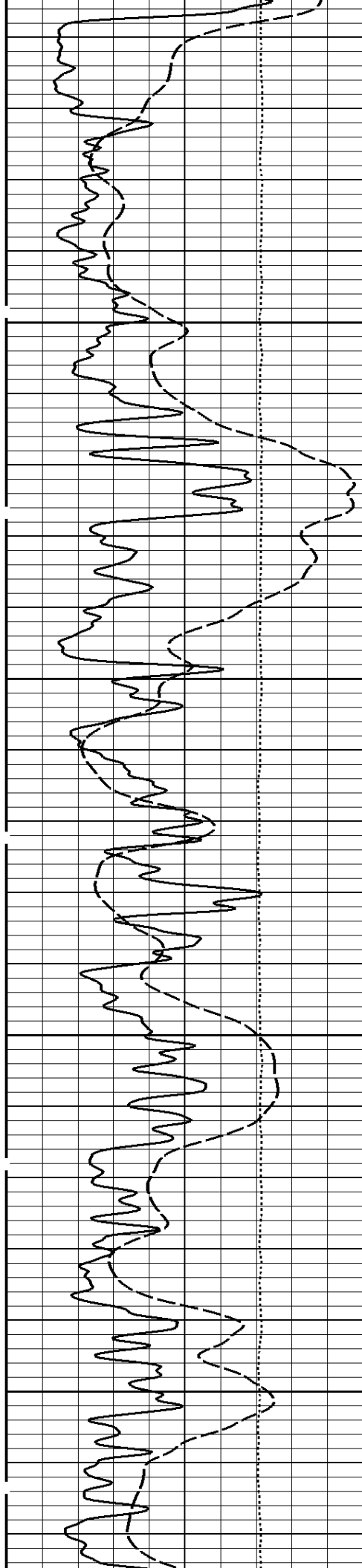


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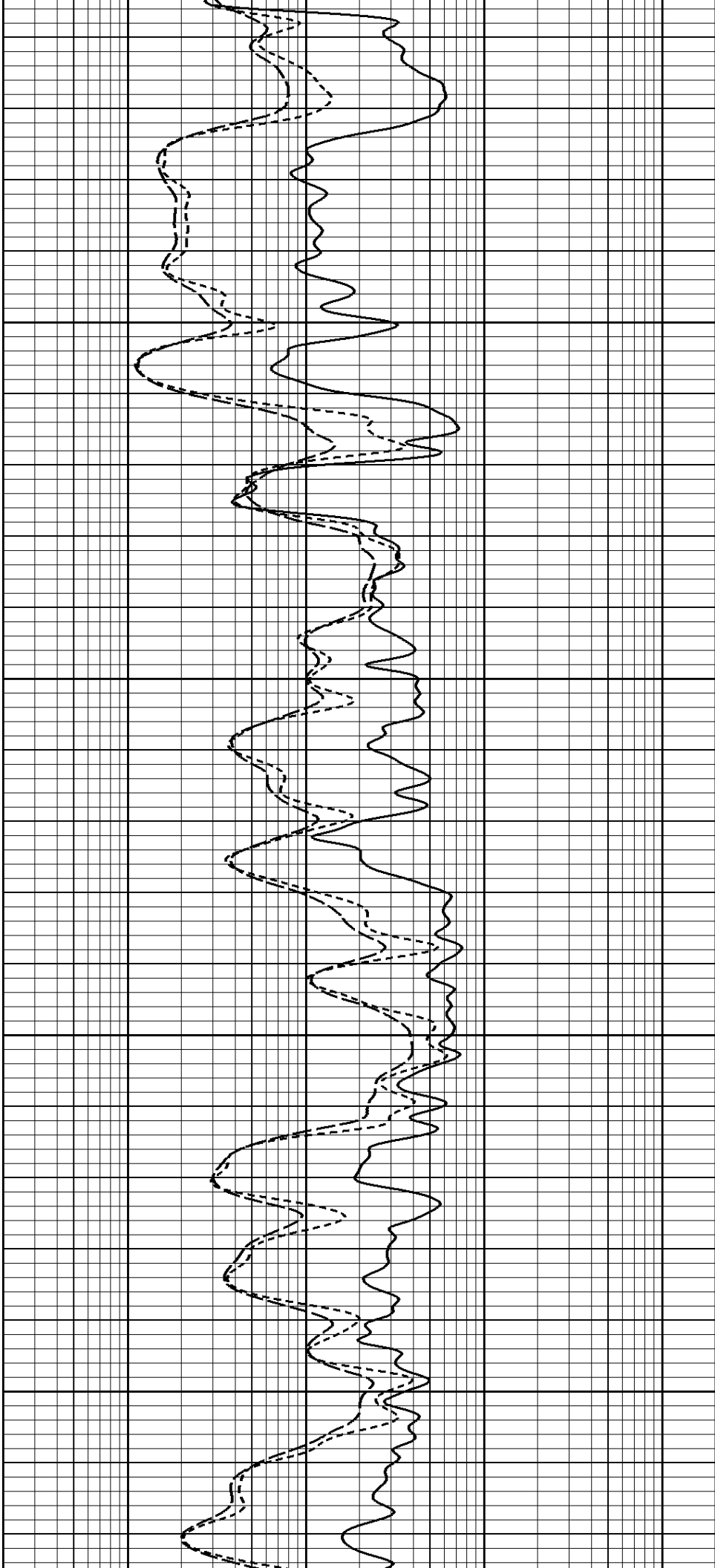
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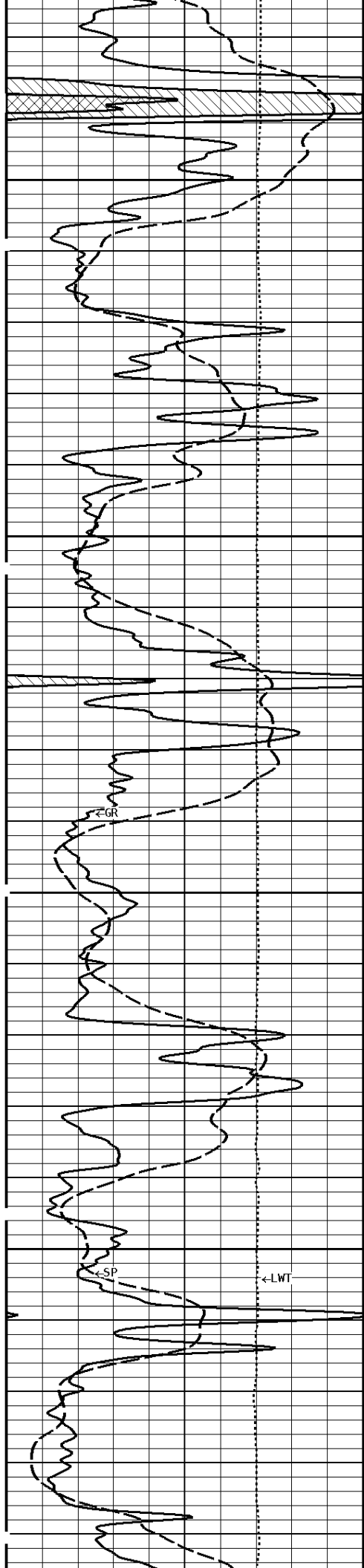




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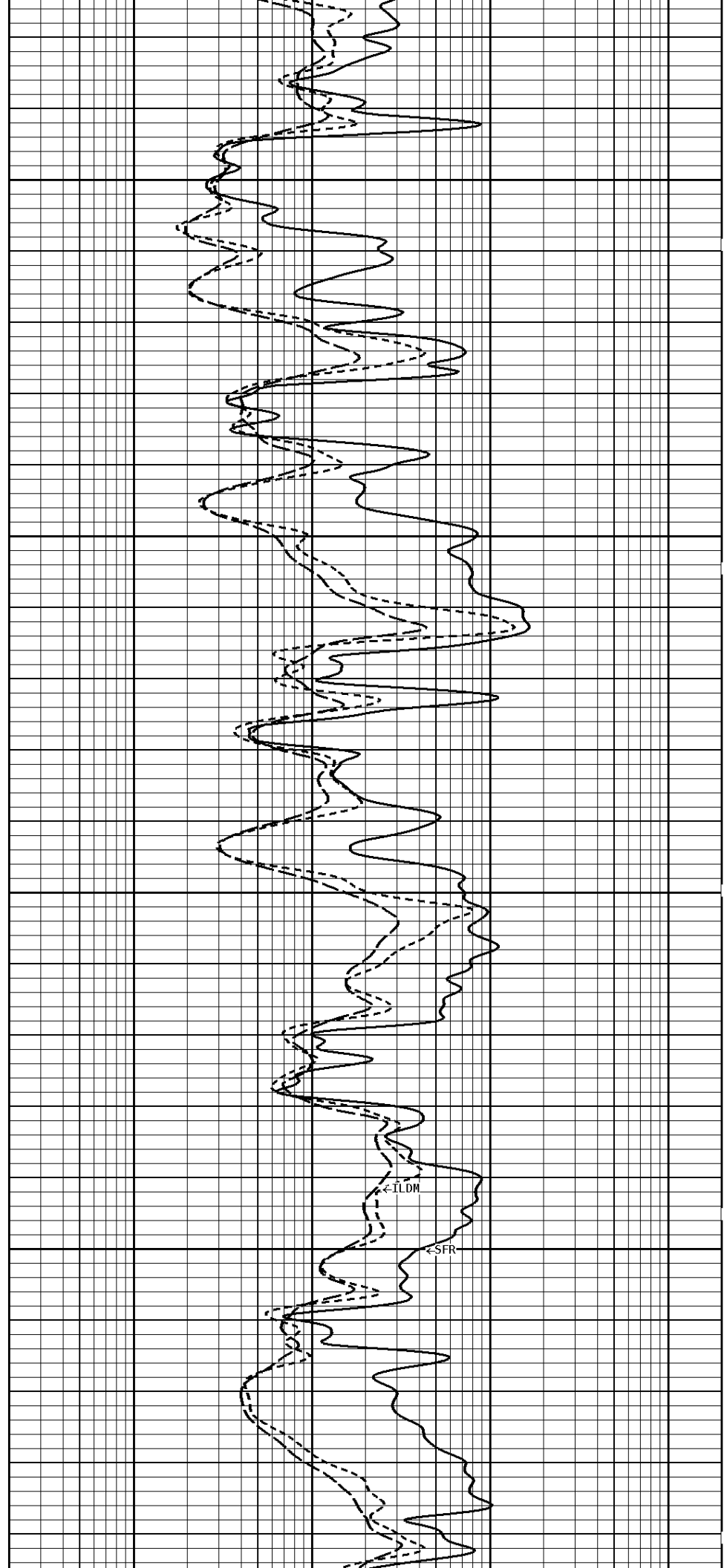
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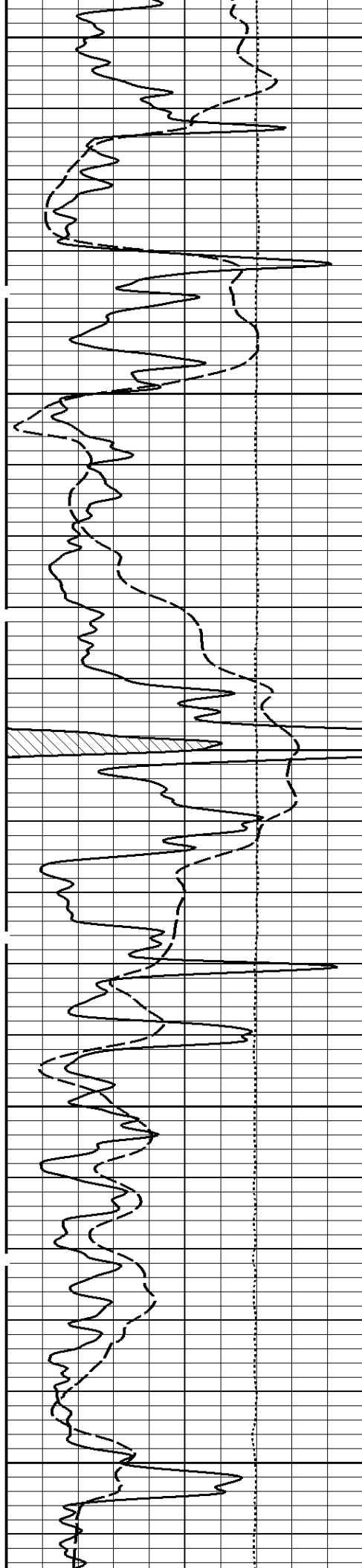




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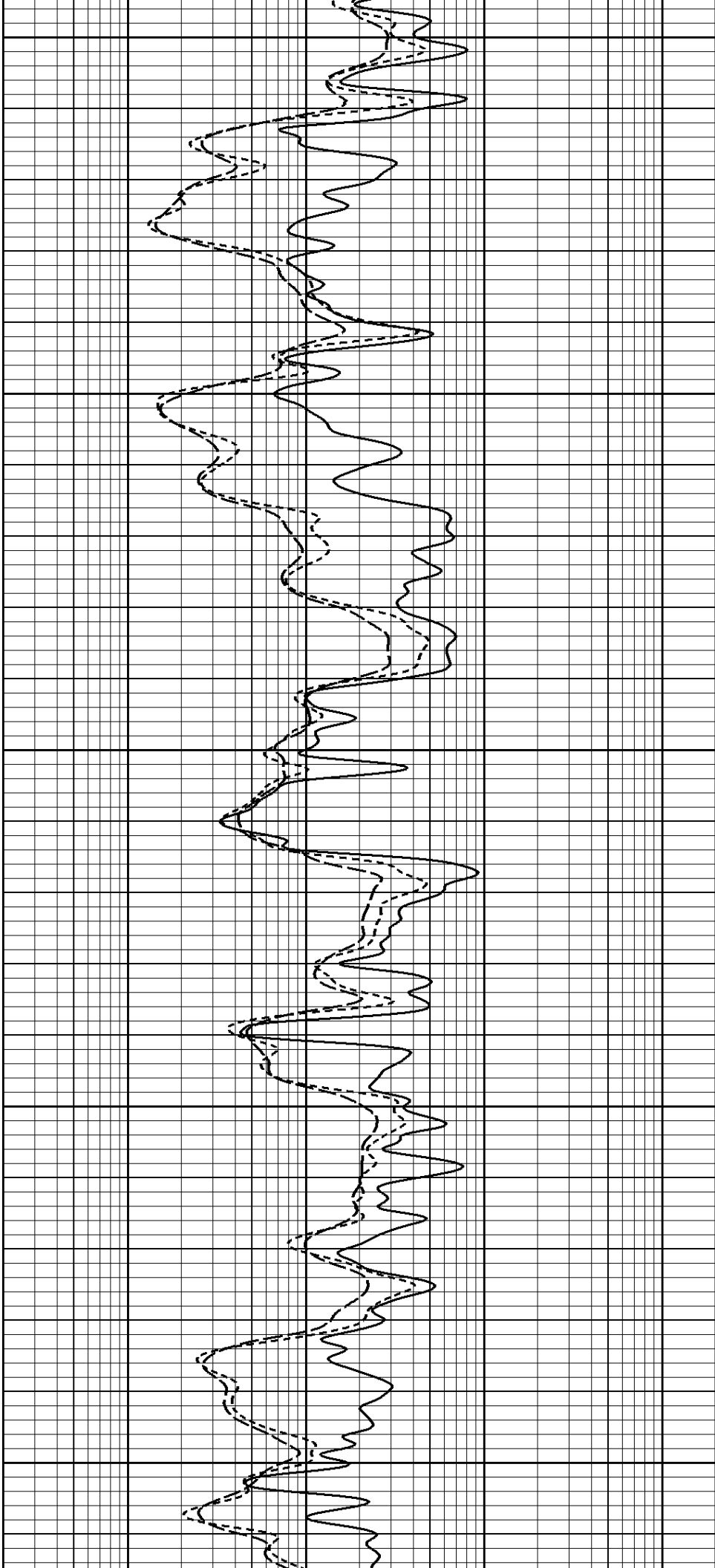
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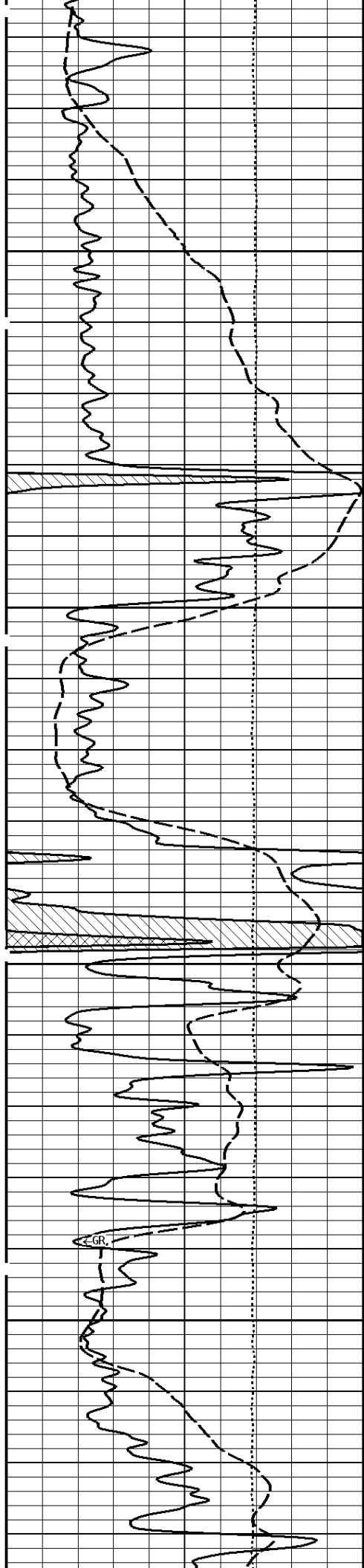




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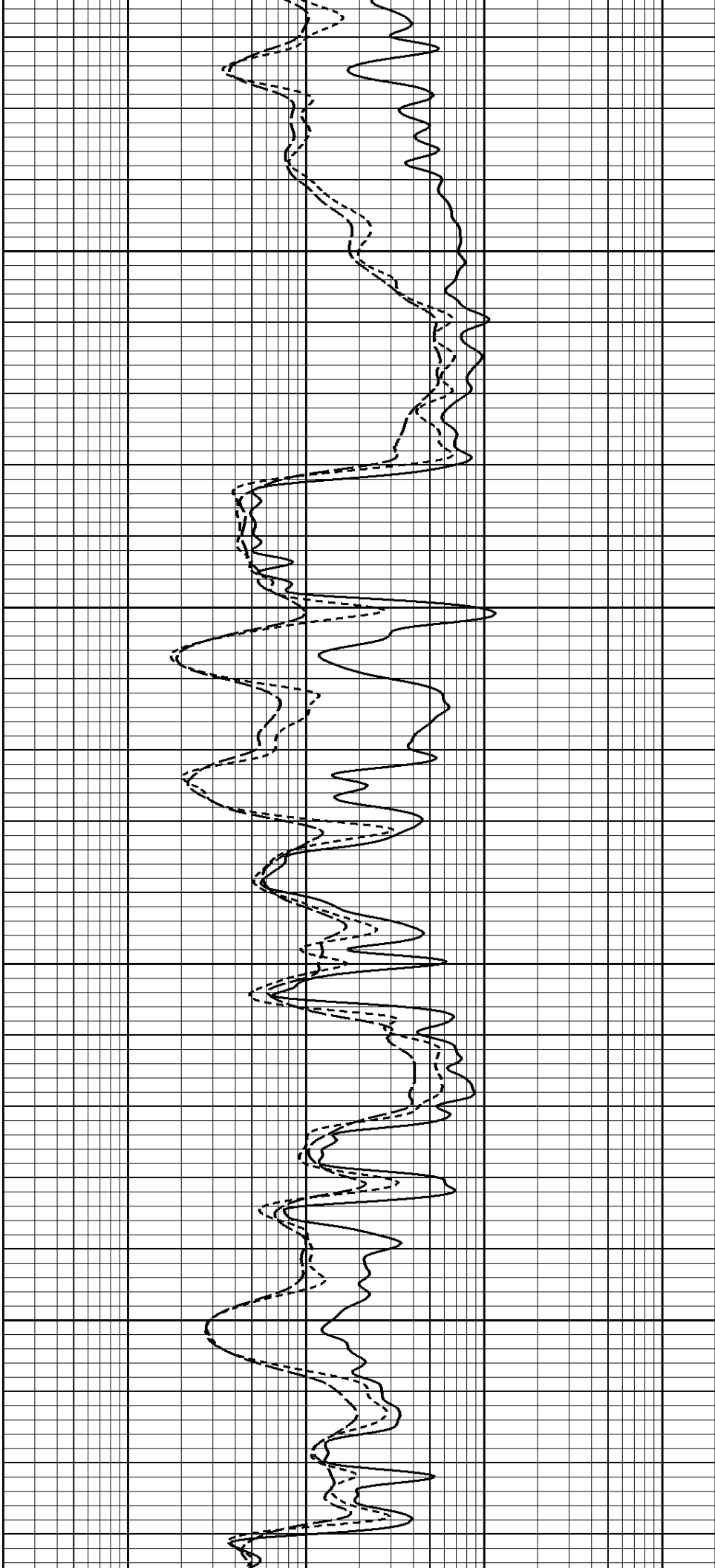
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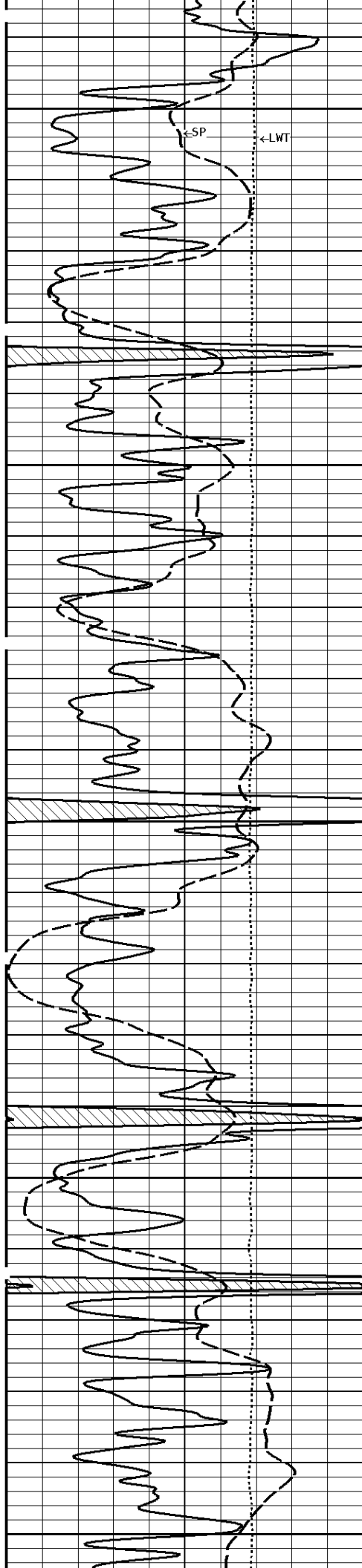




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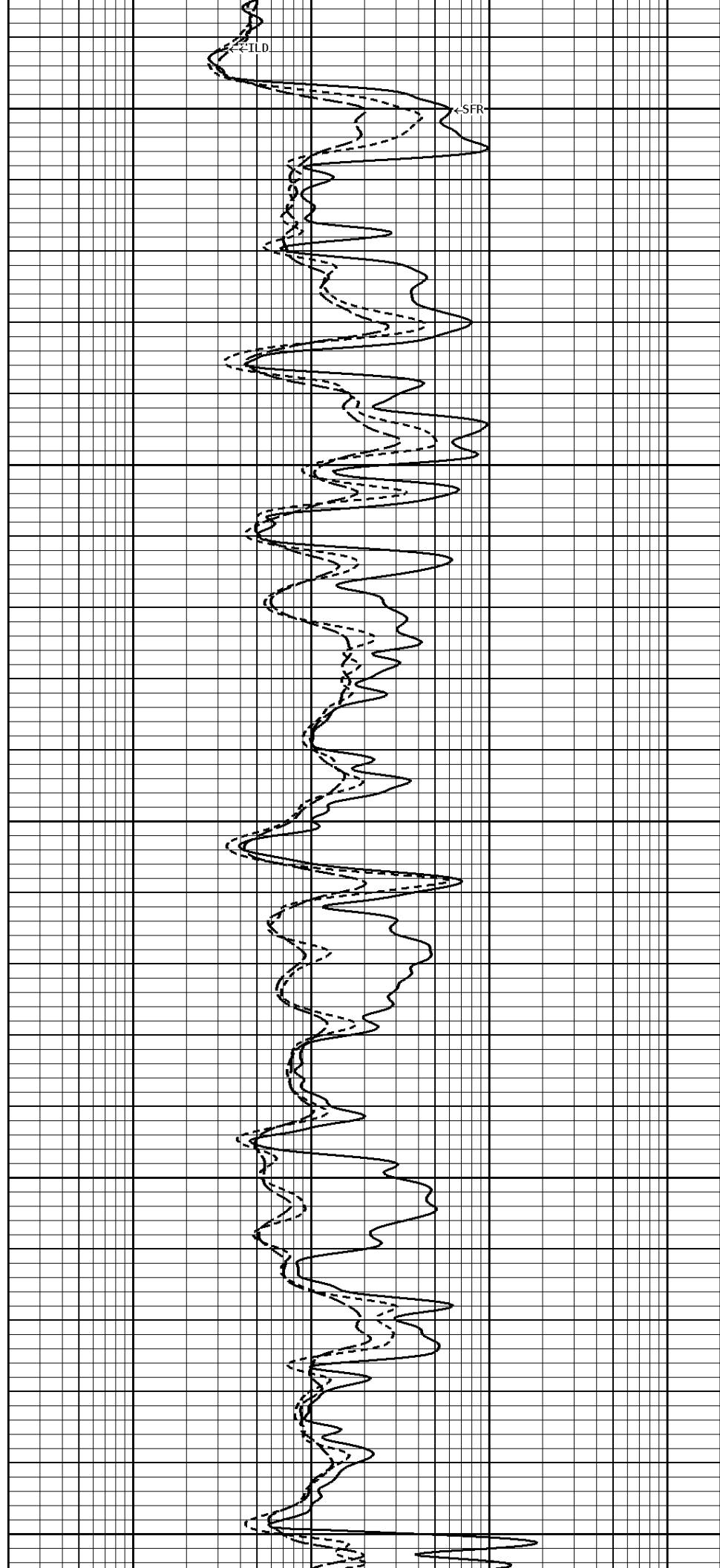


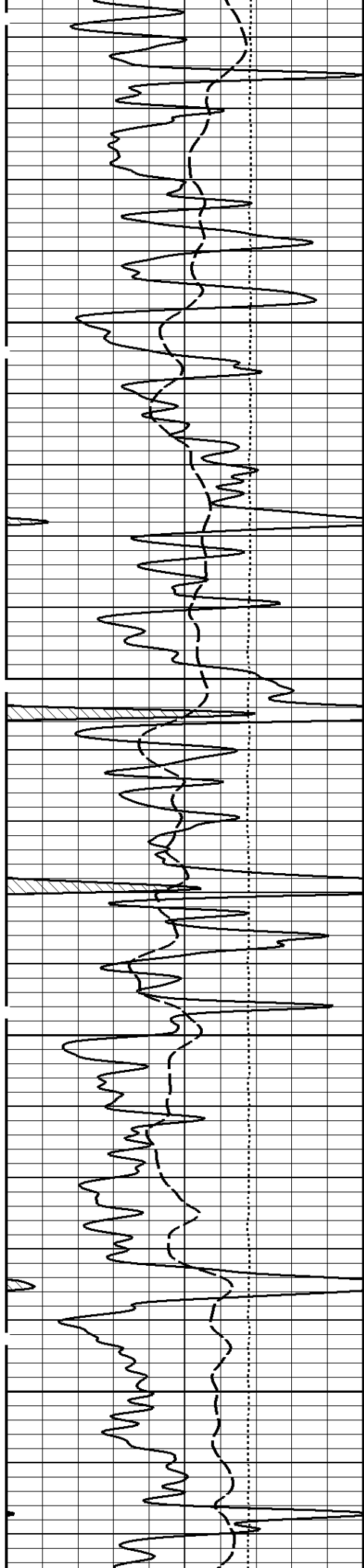


4700

4800

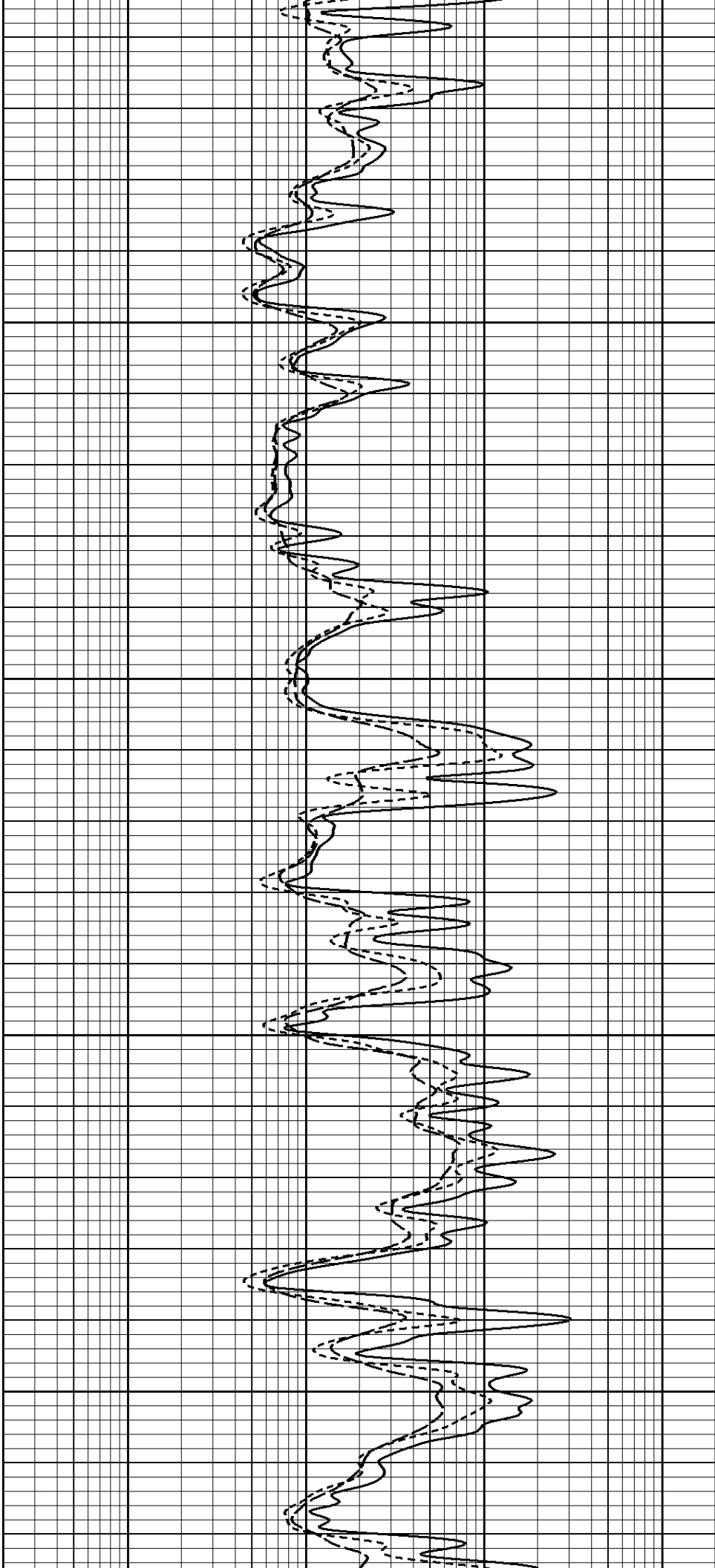
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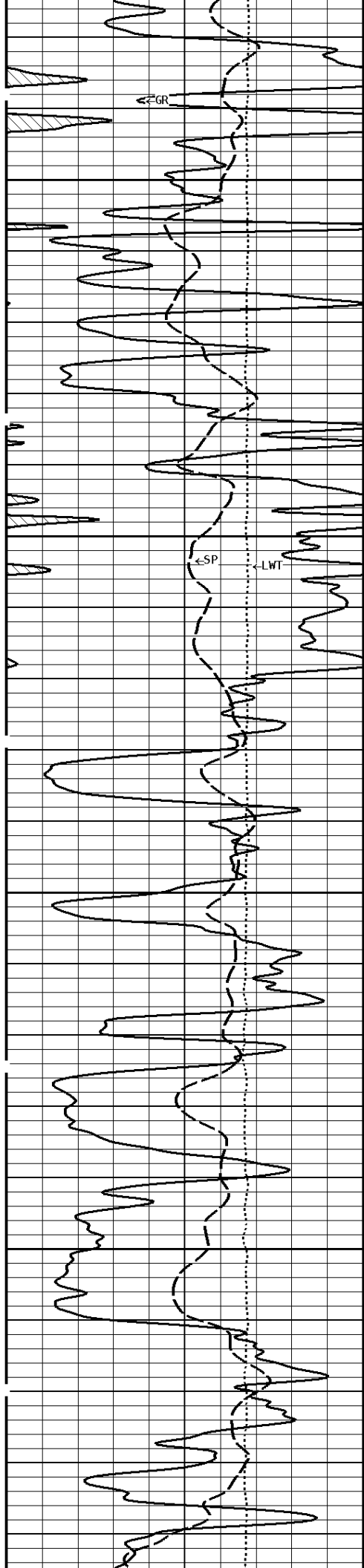




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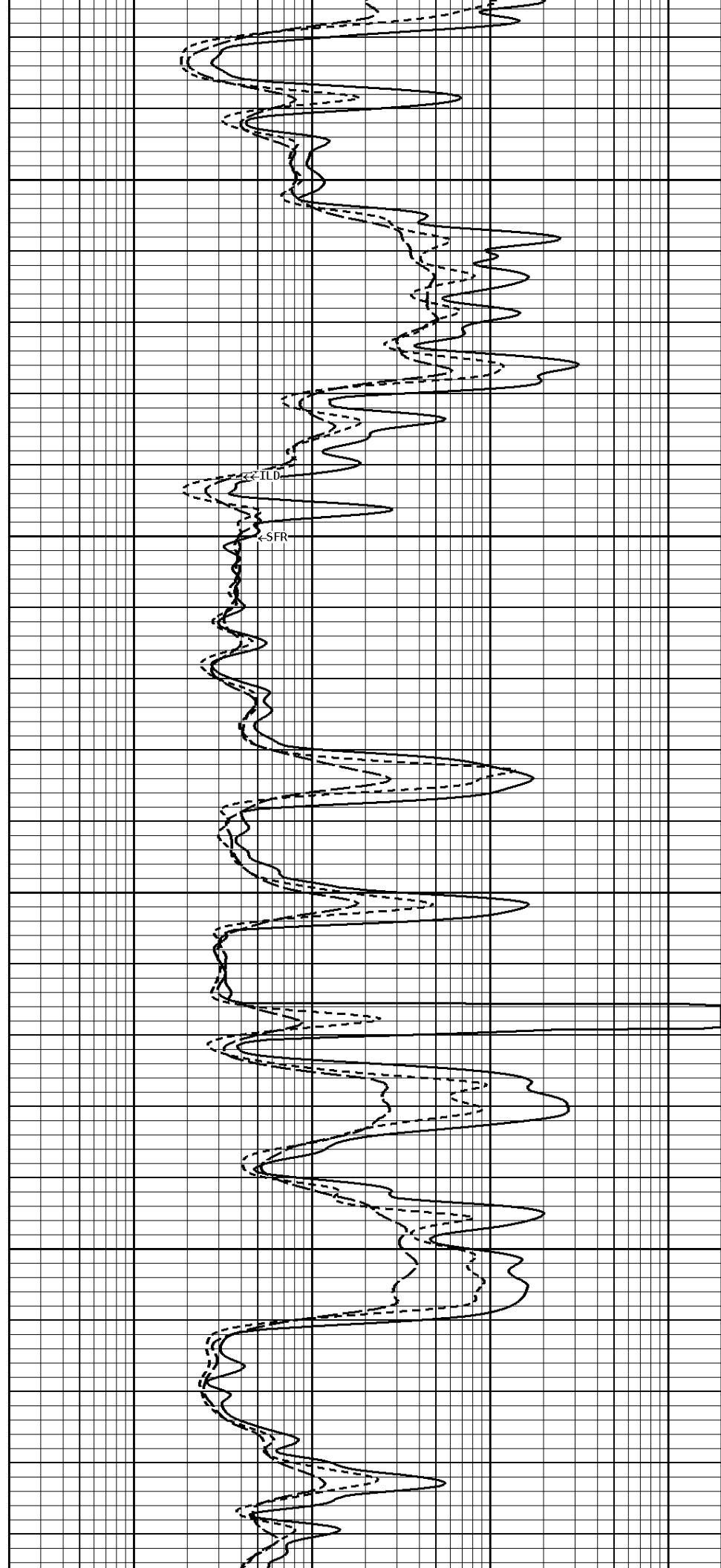
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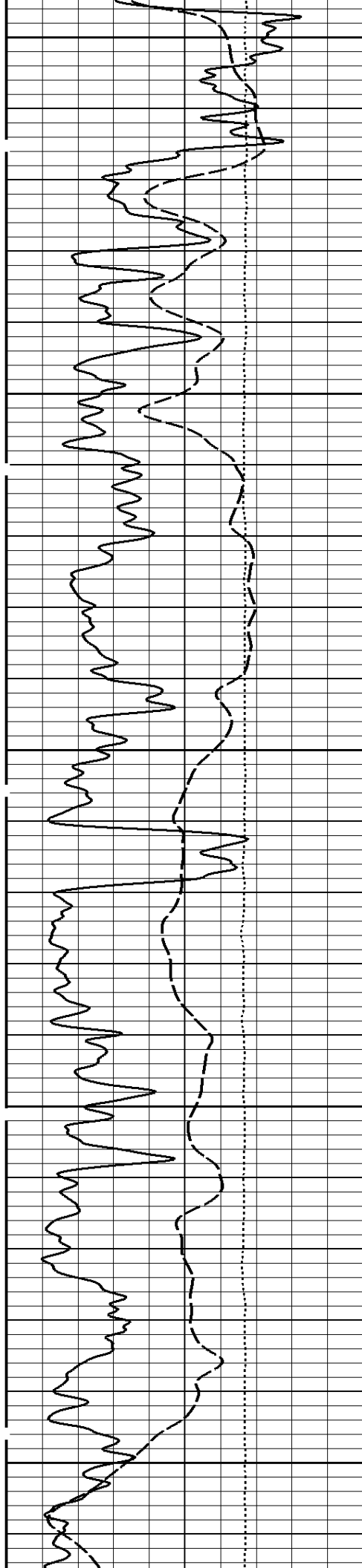




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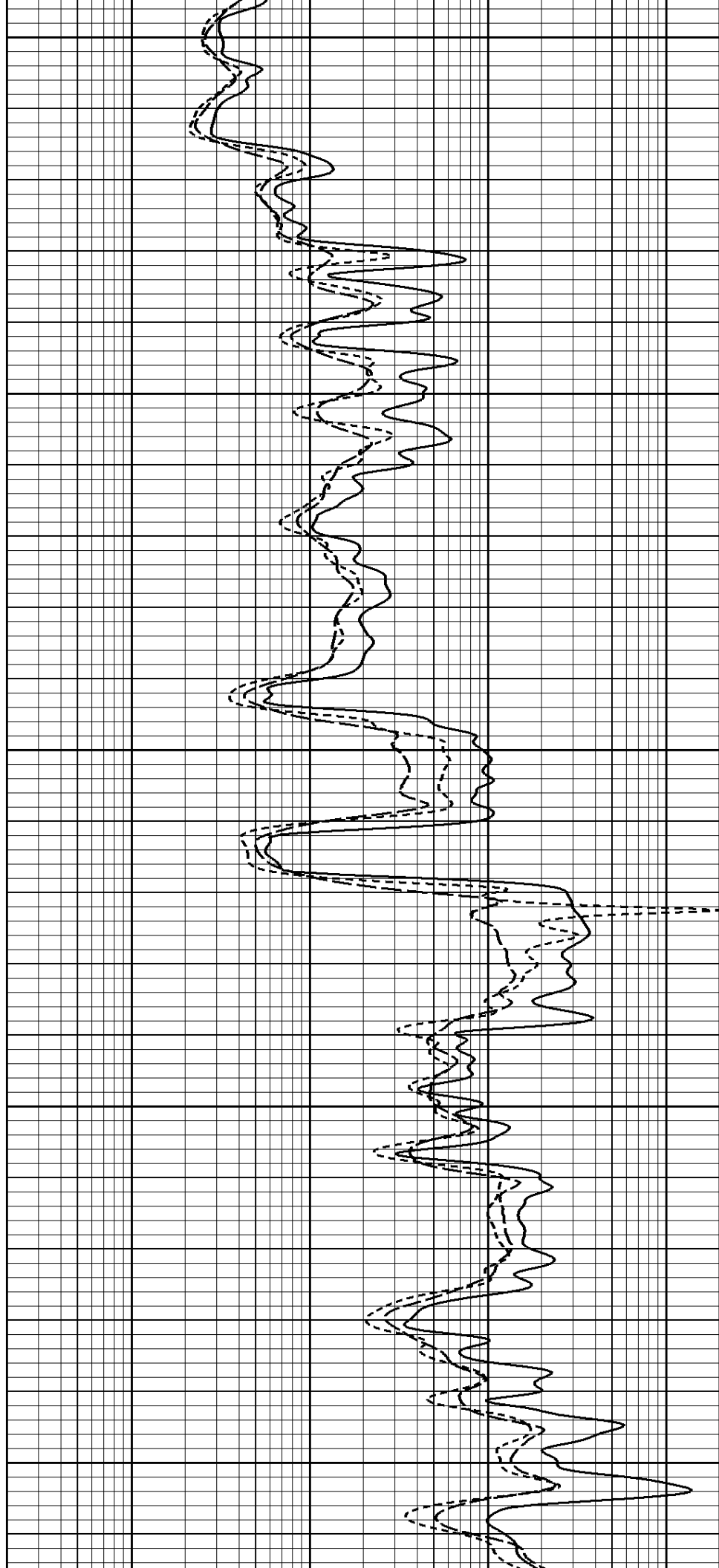
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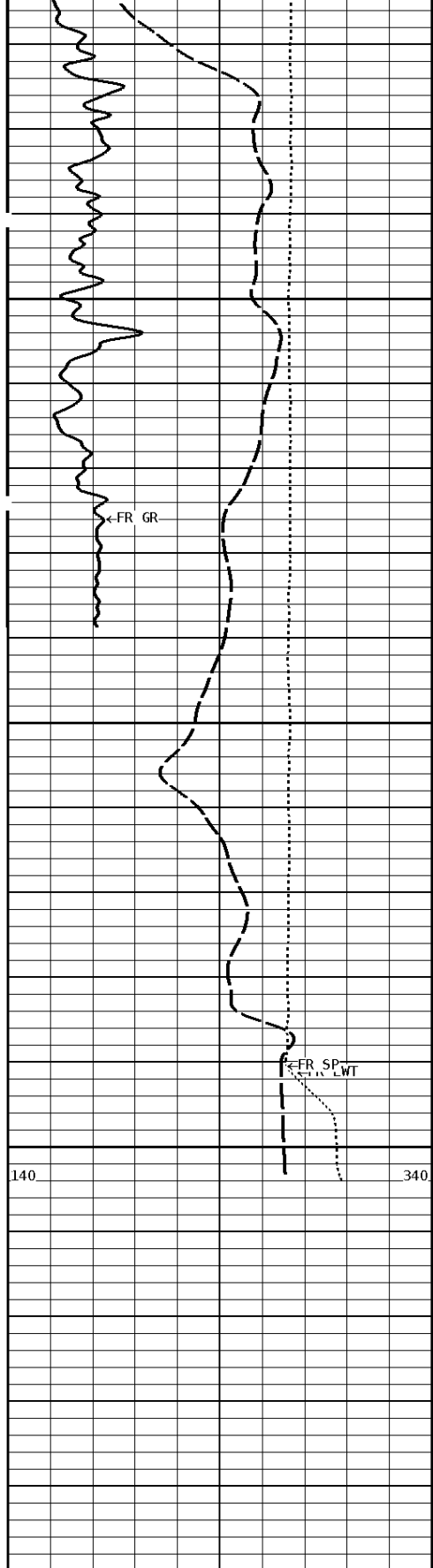




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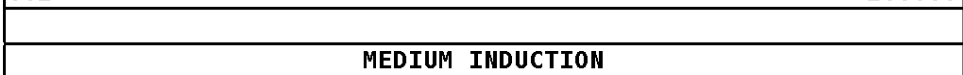
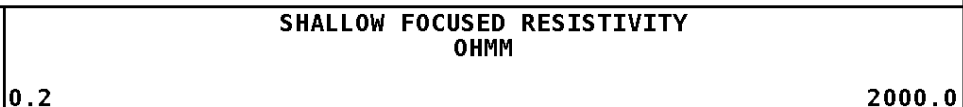
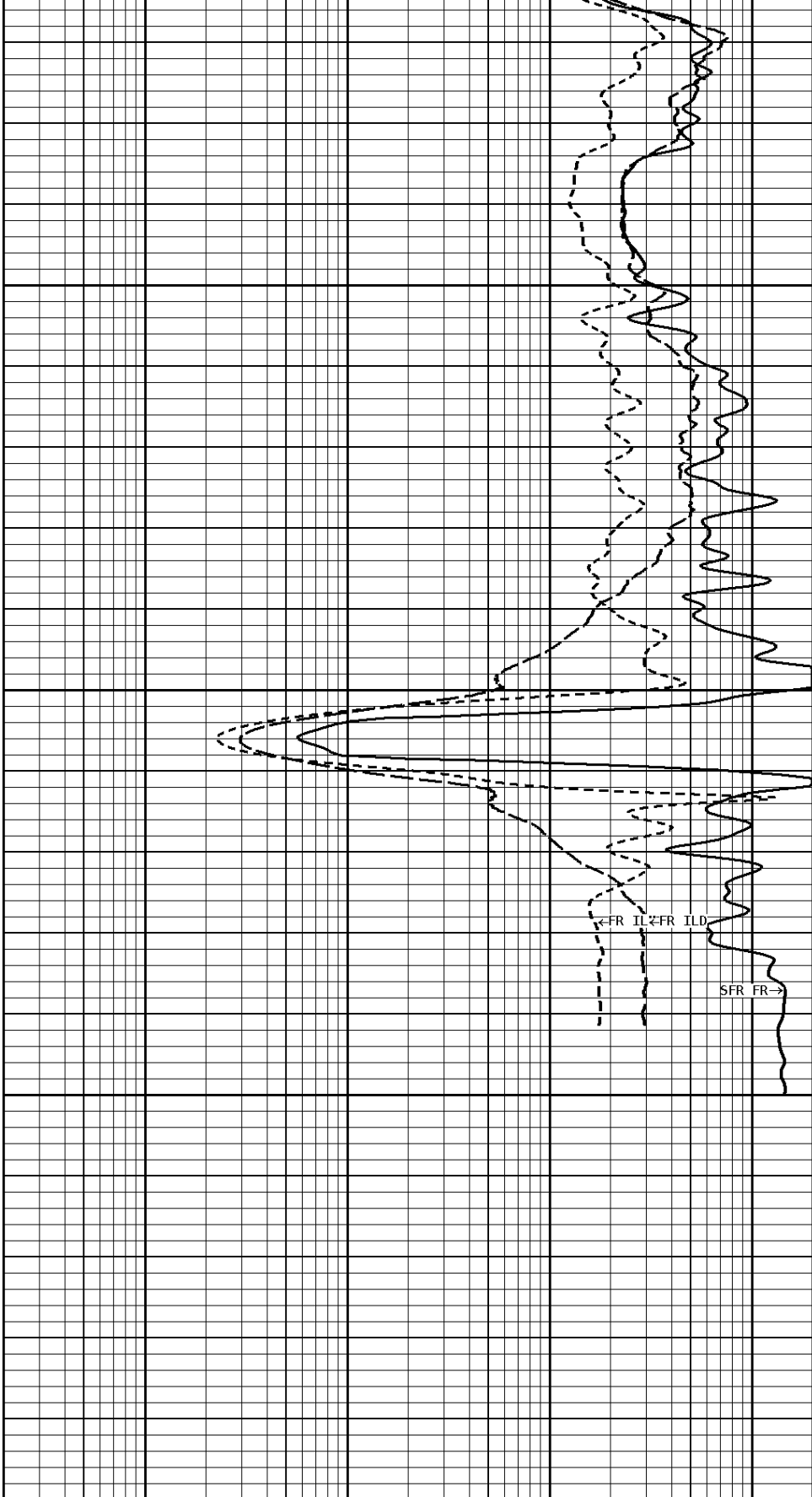
5600

5691

5700

File #1.1.7

1:240 MAIN SECTION



LBS

10000

0

SPONTANEOUS POTENTIAL
mV

→ | ← 20

OHMM

0.2

2000.0

DEEP INDUCTION
OHMM

0.2

2000.0

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet

Drill Bit Size	7.875	in
Casing Diameter	5.500	in
BHT Depth	5691.000	ft
Borehole Temperature	129.0	degF
Temperature Gradient	1.82	DCHM
Resistivity Of Mud	3.500	ohmm
Resistivity Of Mud Temperature	60.00	degF

Well File: MERIT_GOERING_JACOB_M-4_JAN27_QUINT

Scale: 1:240

Format: DIL-240

Segment: V1.D1.S6 Repeat

Acquired: Not Available

Reference: 0

Processed: Not Available

SPONTANEOUS POTENTIAL
mV

→ | ← 20

DEEP INDUCTION
OHMM

0.2

2000.0

TENSION
LBS

10000

0

MEDIUM INDUCTION
OHMM

0.2

2000.0

GAMMA RAY
API UNITS

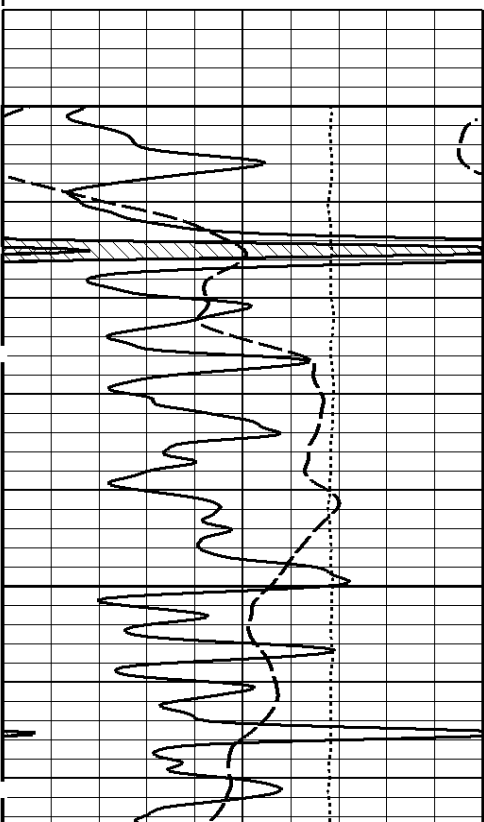
150 0 300 150

SHALLOW FOCUSED RESISTIVITY
OHMM

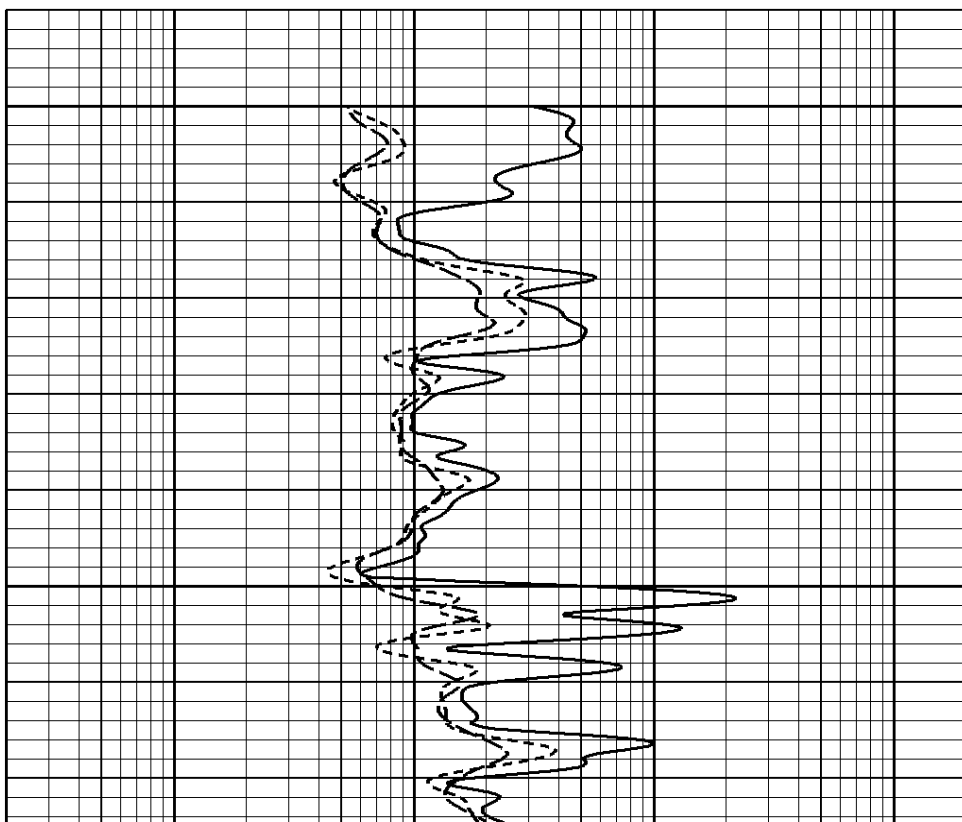
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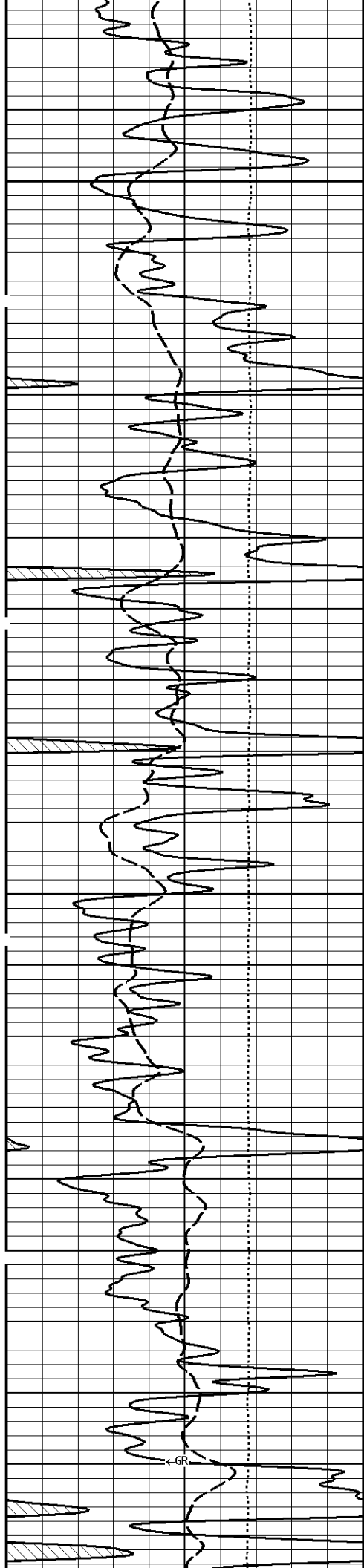
2000.0

1:240 REPEAT SECTION



4900

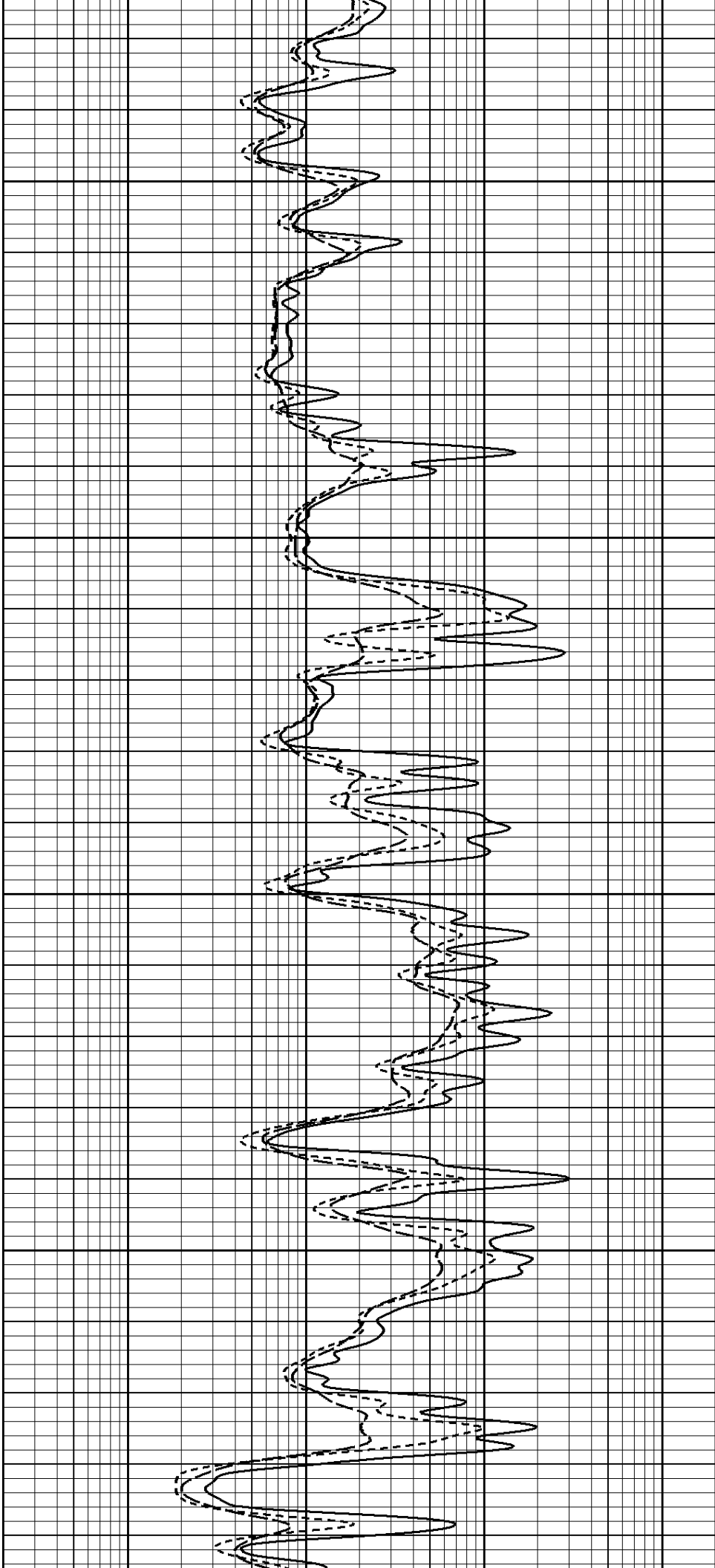


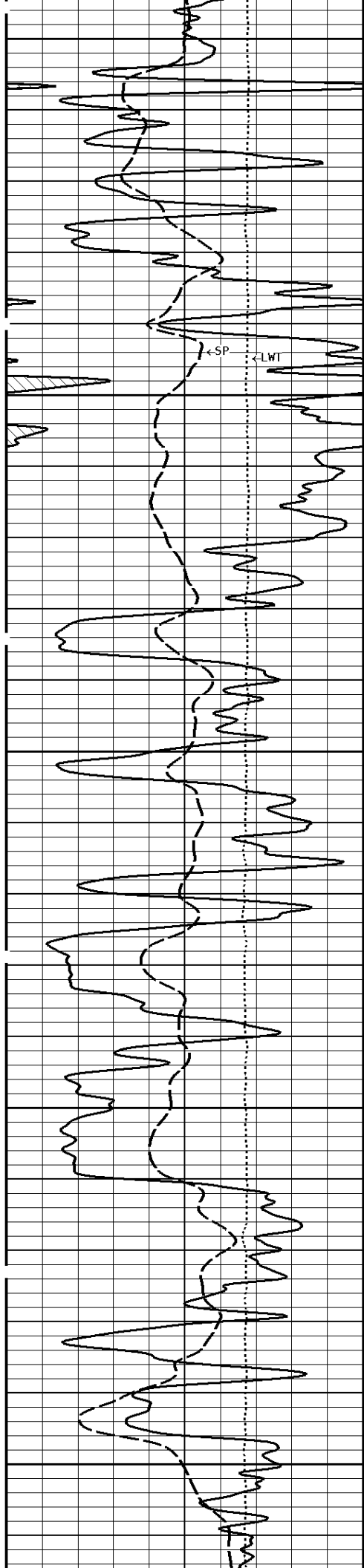


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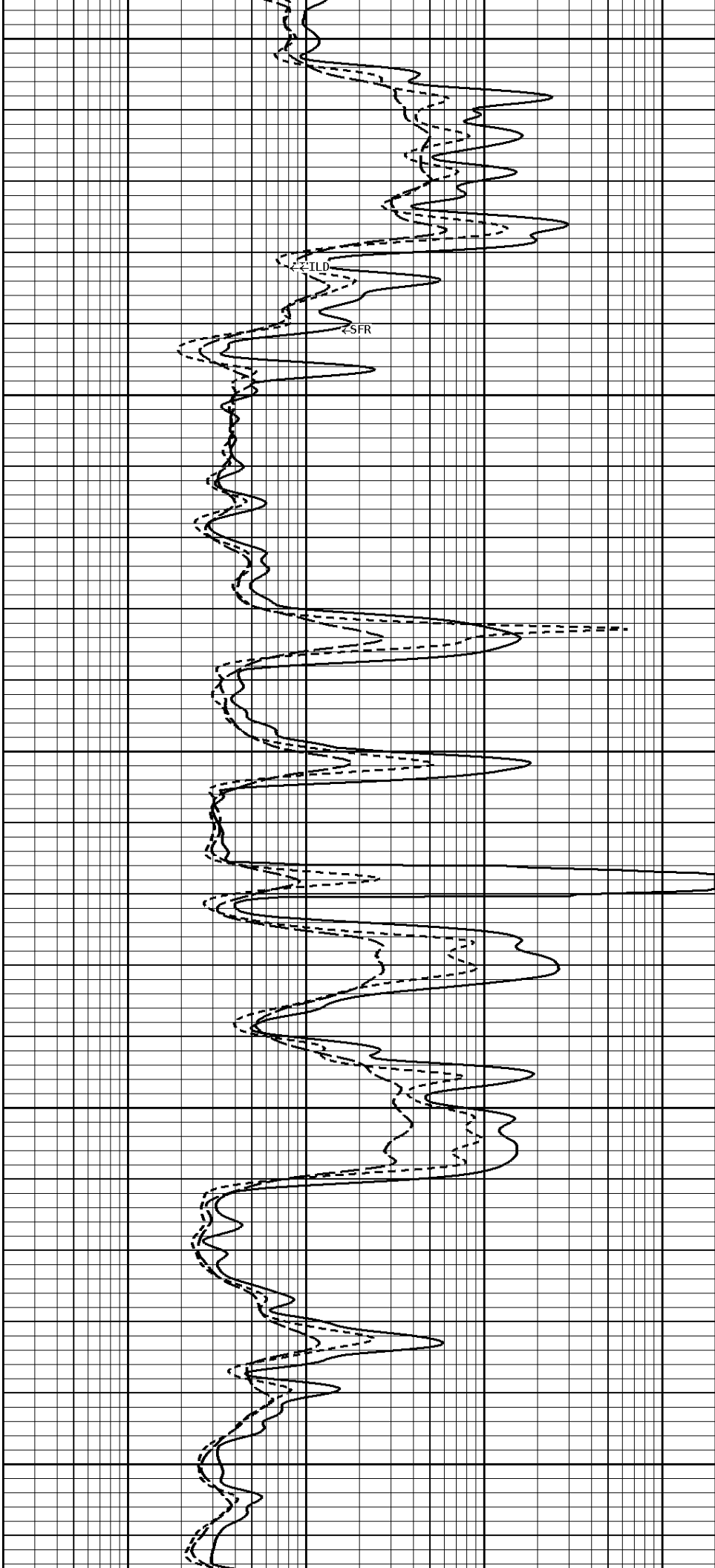
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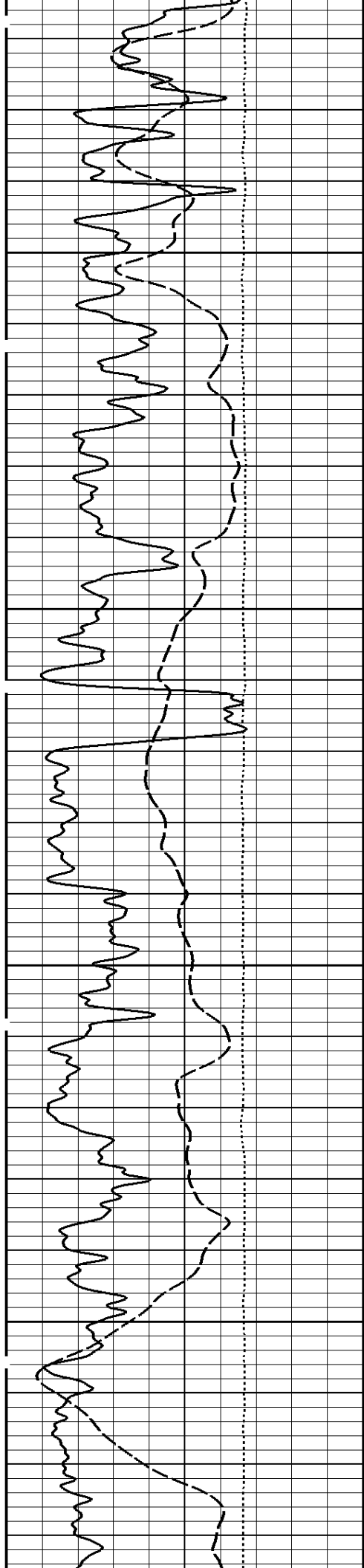




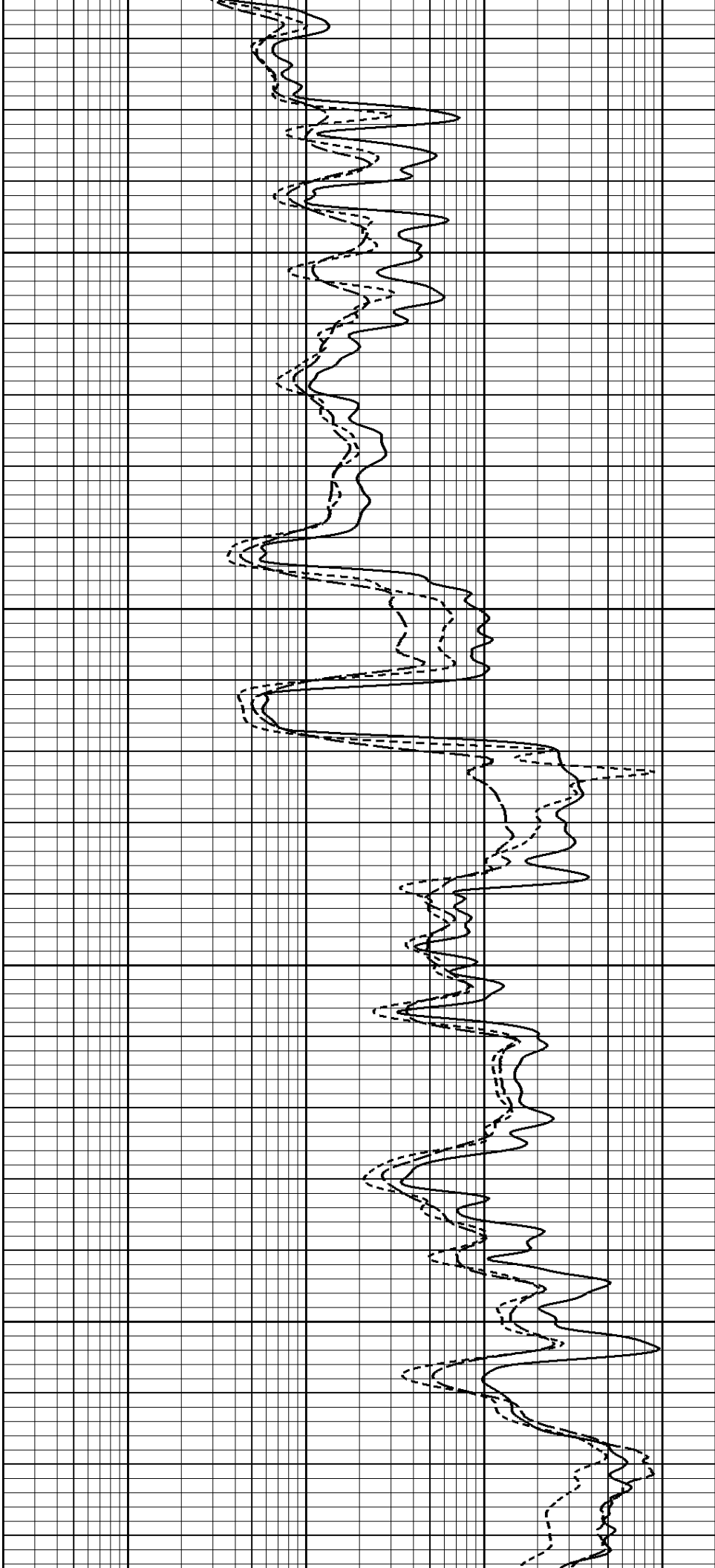
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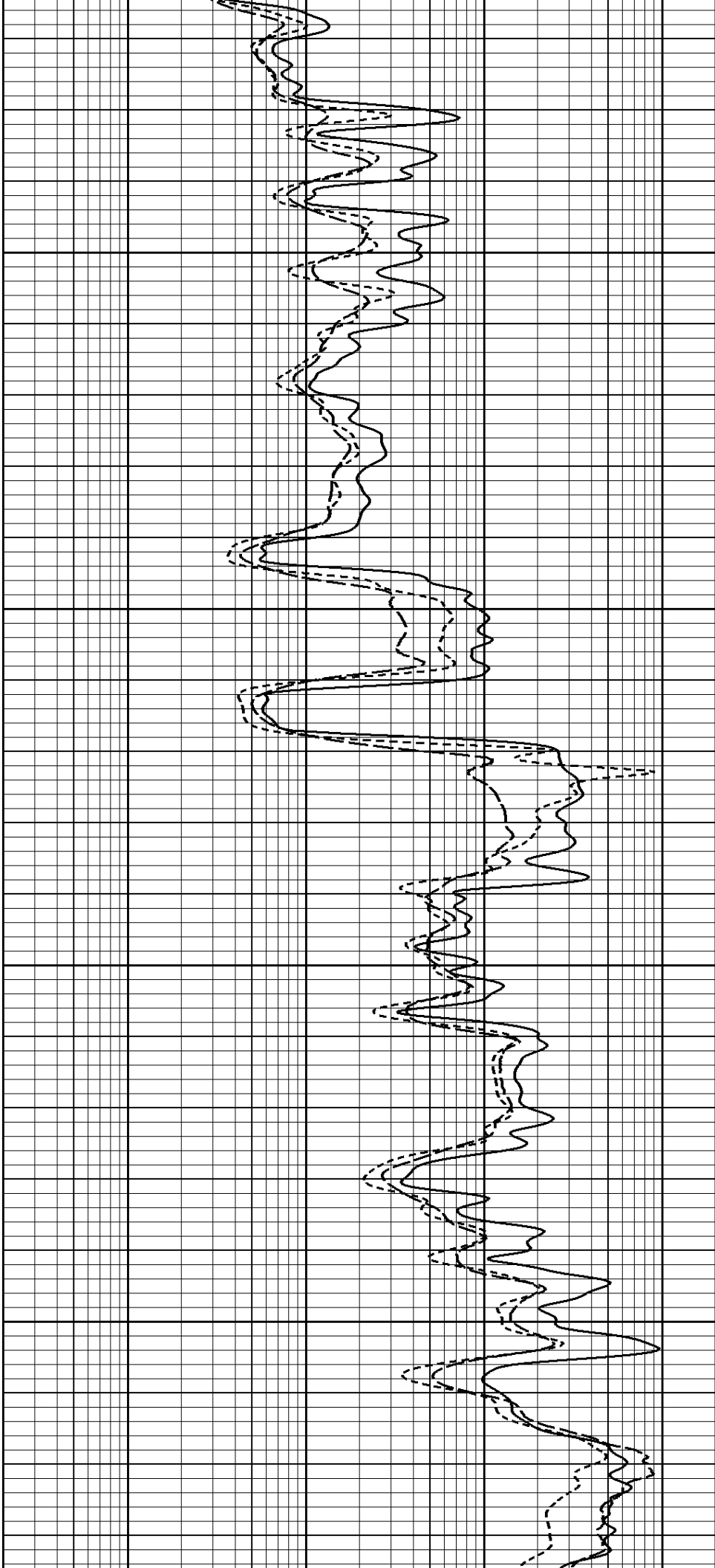
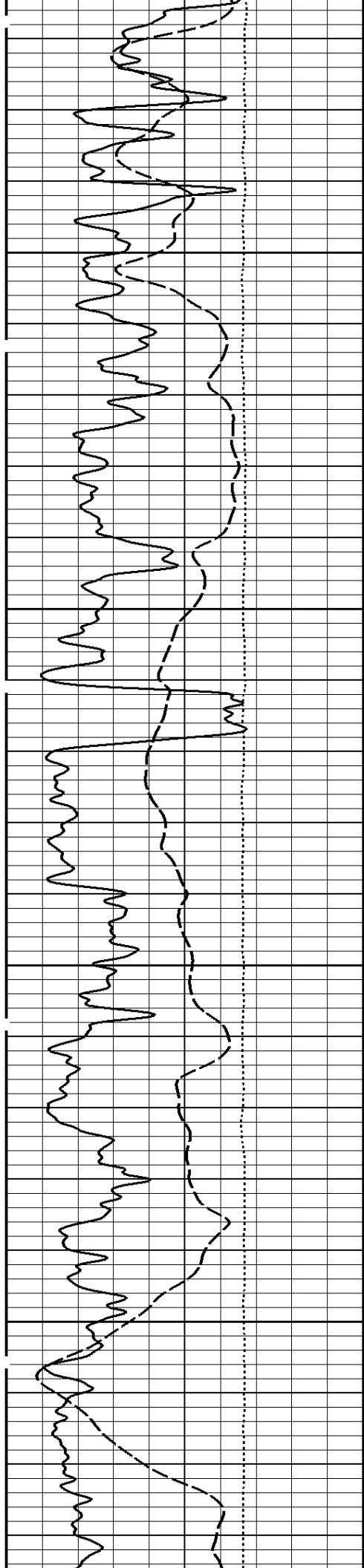


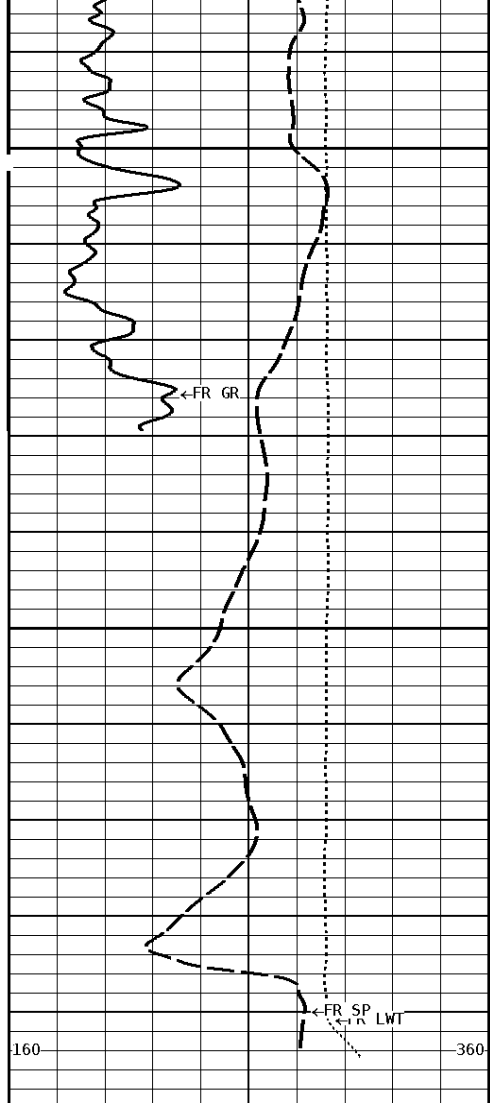


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5500

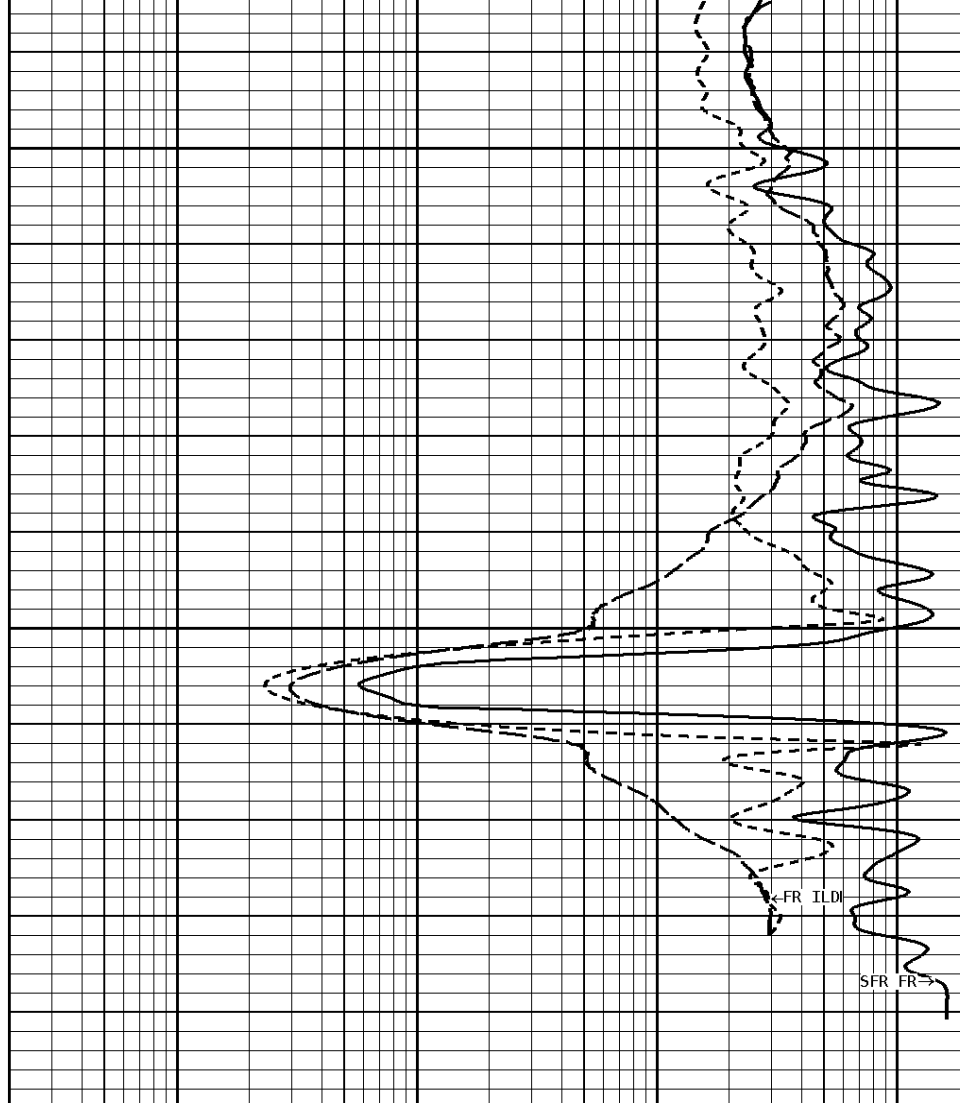




5600

5691

File #1.1.6



1:240 REPEAT SECTION

GAMMA RAY API UNITS	
150	300
0	150
TENSION LBS	
10000	0
SPONTANEOUS POTENTIAL mV	
→	←20

SHALLOW FOCUSED RESISTIVITY OHMM	
0.2	2000.0
MEDIUM INDUCTION OHMM	
0.2	2000.0
DEEP INDUCTION OHMM	
0.2	2000.0

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	7.875	in
Casing Diameter	5.500	in
BHT Depth	5693.000	ft
Borehole Temperature	129.0	degF
Temperature Gradient	1.82	DCHM
Resistivity Of Mud	3.500	ohmm
Resistivity Of Mud Temperature	60.00	degF

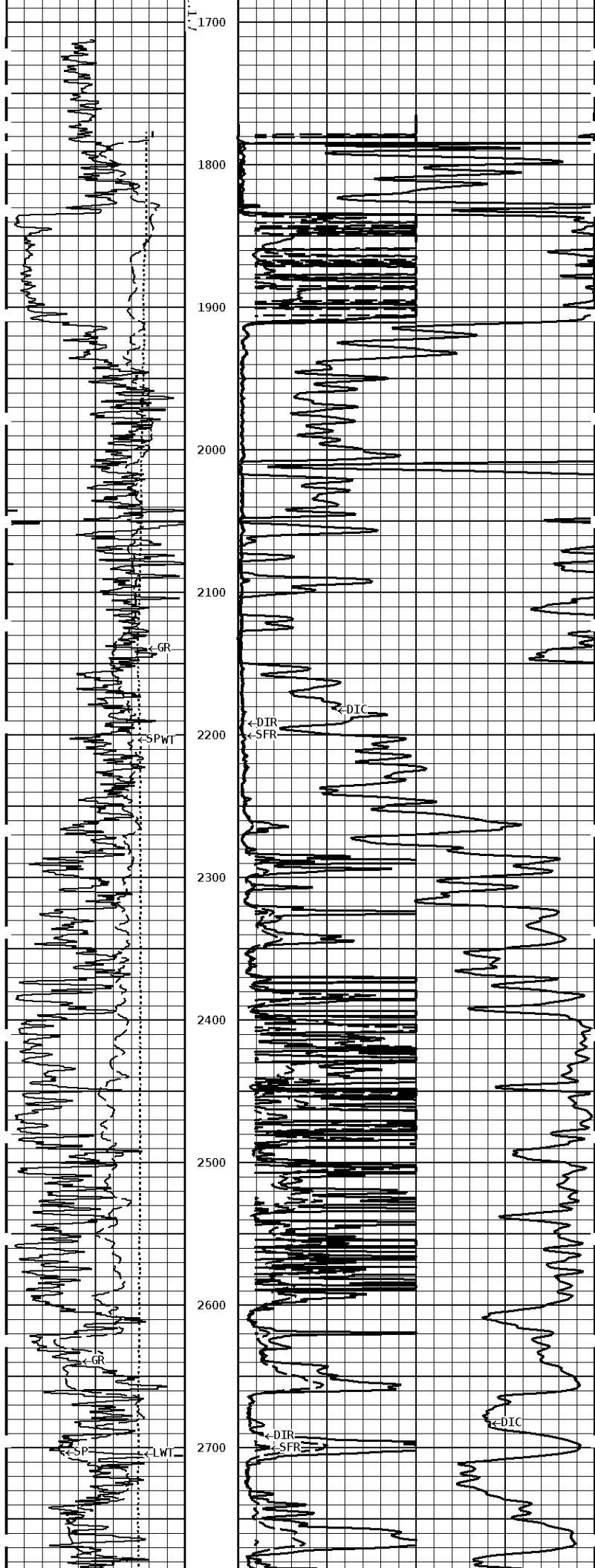
* Calibration Summary *

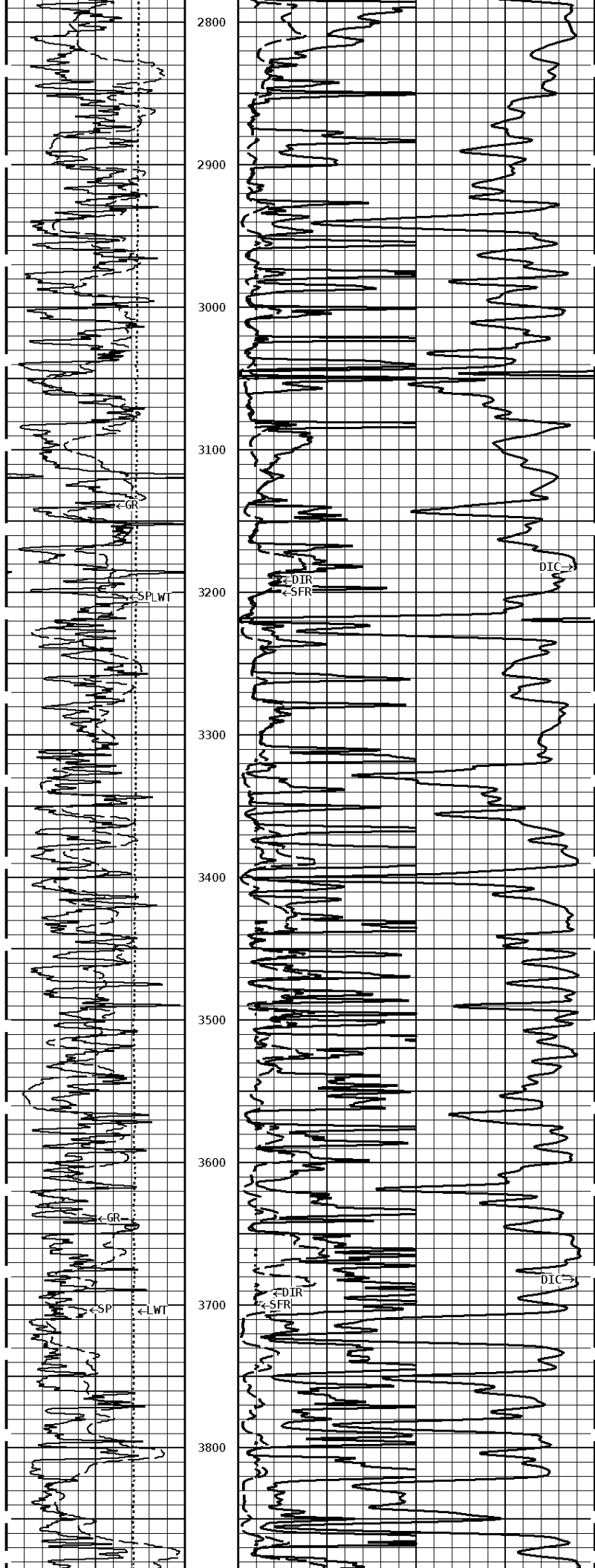
Shop Calibration GRT-B					
Performed : 24-JUN-2019			Time : 12:20		
Sensor Suite : GR-GR5			ID : GRT-BC-038		
	Measured	Units	Calibrated	Units	
GR	Background Jig		Jig		
	36 266	CPS	160		GRAPI

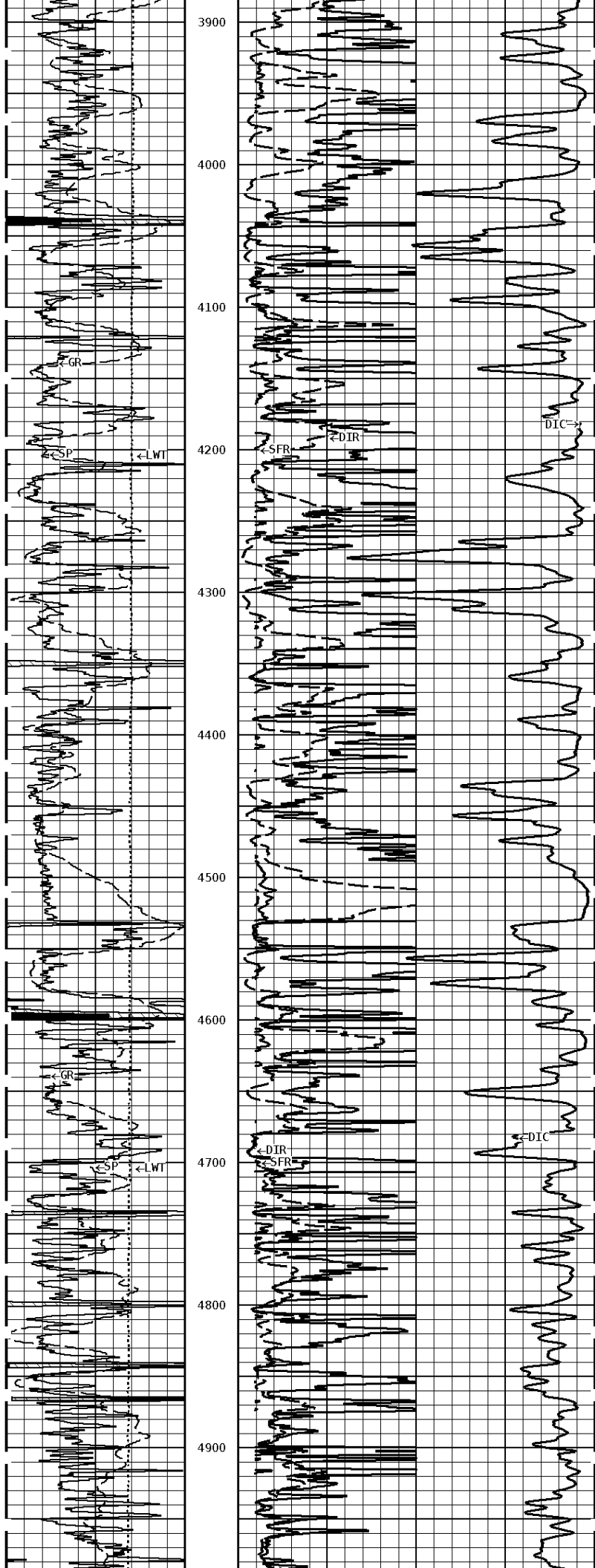
Shop Calibration PIT-CA					
Performed : 21-DEC-2019			Time : 21:46		
Sensor Suite : P-IND-T			ID : PIT-AC-043		
Medium					
	Measured		Calibrated		Units
	R X		R X		
Air	131492 129685		0.0 0.0		MMHOS
Zero	131066 131062		-18.1 59.6		MMHOS
Reference	244915 244454		4981.9 5059.6		MMHOS
Loop	130404 210498		3515.7 3611.2		MMHOS
Sonde Error			-0.5 -1.7		MMHOS
Cond			4981.9 5059.6		MMHOS
Deep					
	Measured		Calibrated		Units
	R X		R X		
Air	131939 129230		0.0 -0.0		MMHOS
Zero	131079 131067		-15.6 35.3		MMHOS
Reference	220620 224092		1984.4 2035.3		MMHOS
Loop	129308 206166		1595.4 1712.8		MMHOS
Sonde Error			-0.6 -7.8		MMHOS
Cond			1984.4 2035.3		MMHOS
Temperature					
	Measured		Calibrated		Units
	Low High		Low High		
	16980.0 56920.0		70.0 350.0		DEGF
Performed : 21-DEC-2019			Time : 21:46		
Sensor Suite : SFL			ID : PIT-AC-043		
Internal					
	Measured		Calibrated		Units
	Zero Reference		Zero Reference		
Im	32732.6 48929.1		0.0 7028.0		uA
Ib	32768.6 49680.1		0.0 1750.0		mA
MOM1	32722.0 56290.6		0.0 175.0		mV
Equivalent SFL			43.97		OHMM
Performed : 21-DEC-2019			Time : 21:47		
Sensor Suite : P-SP			ID : PIT-AC-043		
Internal					
	Measured		Calibrated		Units
	Zero Reference		Zero Reference		
	32774.5 58935.9		0.0 1000.0		mV

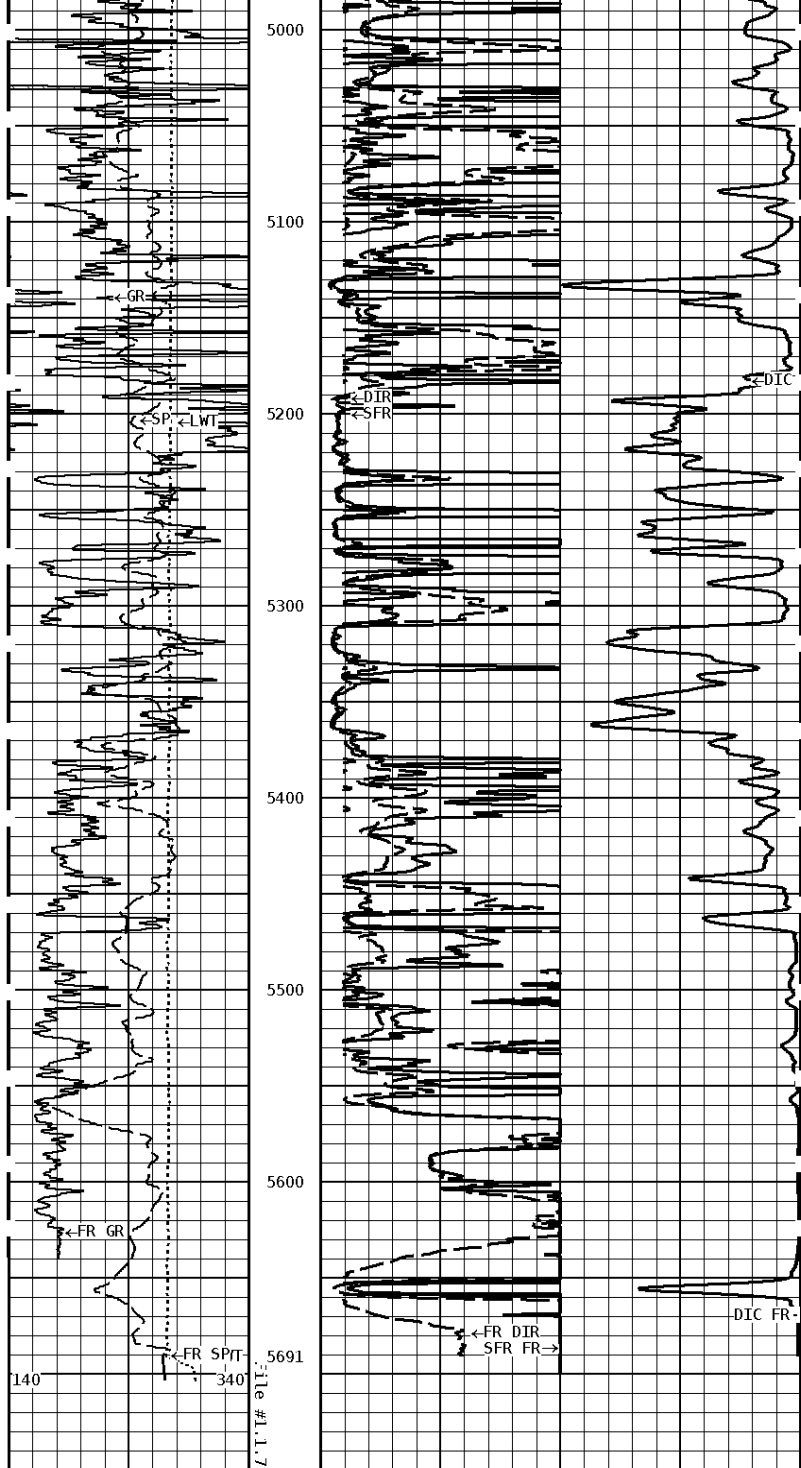
Well File: MERIT_GOERING_JACOB_M-4_JAN27_QUINT	Scale: 1:1200	Format: DIL1200
Segment: V1.D1.S7 MAIN	Acquired: 2020-01/27 13:30 3.4.1-13972	
Reference: 0	Processed: 2020-01/27 14:53 3.4.1-13972	

TENSION LBS	DEEP INDUCTION OHMM	
10000 0	0.0 500.0 0.0 50.0	
SPONTANEOUS POTENTIAL mV	SHALLOW FOCUSED OHMM	
→ ← 20	0.0 500.0 0.0 50.0	
GAMMA RAY API UNITS	DEEP CONDUCTIVITY MHMO	
150 0 300 150	2000 1000 1000 0	
1:1200 MAIN SECTION		
File #		









1:1200 MAIN SECTION

GAMMA RAY API UNITS	
150	300
0	150
SPONTANEOUS POTENTIAL mV	
→	← 20
TENSION LBS	
10000	0

DEEP CONDUCTIVITY MHMO	
2000	1000
1000	0
SHALLOW FOCUSED OHMM	
0.0	500.0
0.0	50.0
DEEP INDUCTION OHMM	
0.0	500.0
0.0	50.0

STEP

Company: MERIT ENERGY COMPANY
 Well: GOERING JACOB #M-4
 Location: 1340' FWL & 1184' FNL
 Logged: 01.27.2020

