

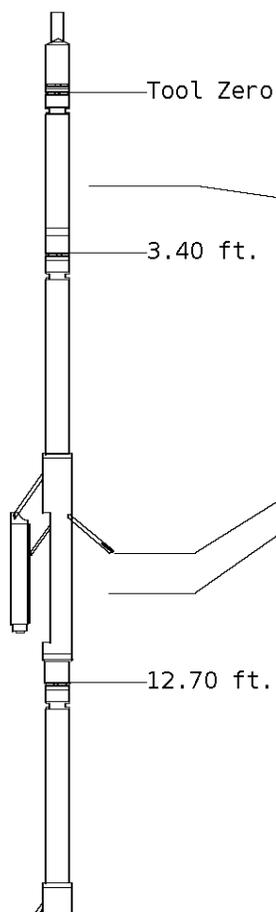
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, MLT AND PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 ANNULAR HOLE VOLUME CALCULATED USING 5.5" PRODUCTION CASING
 PHIN IS CALIPER CORRECTED

GRT: GRP, GRX
 CNT: PHIN, CLCNIN, PHXN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN, PRXL, PECLX, LDENNX, LCORX
 MLT: NOR_RF, INV_RF, MSCLPIN
 PIT: ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS:
 K. WARREN
 S.KEELEY

Tool String Schematic

Total Tool Length - 53.15 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 943.00 lbs.



Tool: GRT-B **Length:** 3.40 ft. **O.D.** 3.60 in.
 Gamma Ray Controller

Sonde ID :GRT-BA-14

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	51.15

Tool: CNT-AA **Length:** 9.30 ft. **O.D.** 4.36 in.
 Compensated Neutron A Pad on NDT-A

Sonde ID :NDT-BB-033

Source ID :N-1044

Pad ID :CNP-AA-121

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	43.75
PHIN	6.80	10.20	42.95

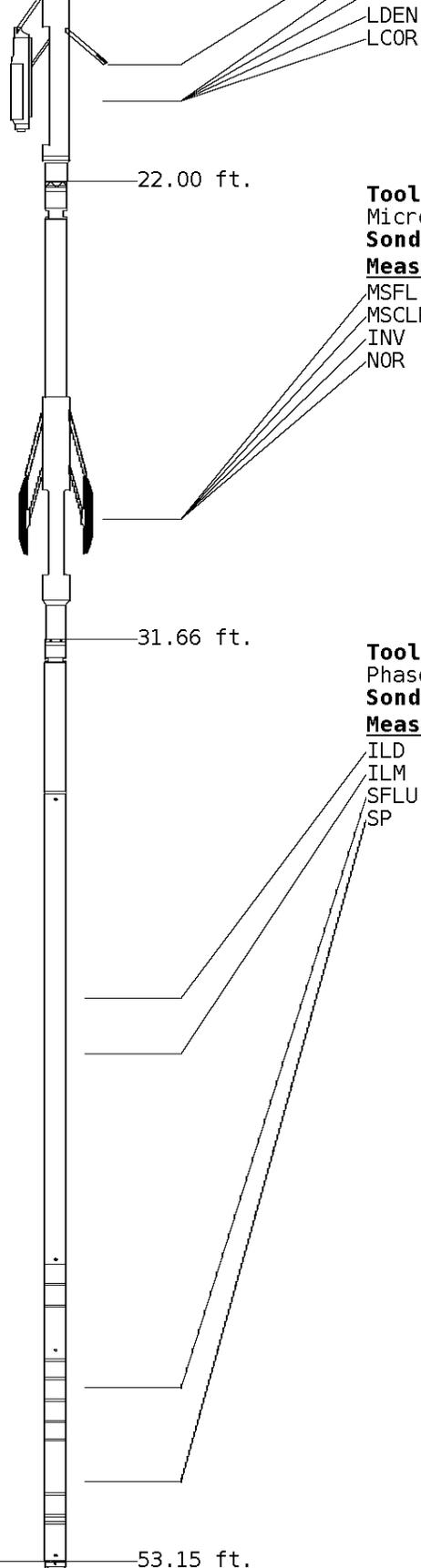
Tool: LDT-DA **Length:** 9.30 ft. **O.D.** 4.80 in.
 Litho Density D Pad on NDT-A

Sonde ID :PDT-GA-426

Source ID :63558B

Pad ID :LDP-DA-75

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	34.45
PEL	7.00	19.70	33.45
PES	7.40	20.10	33.05



7.20	19.90	33.25
7.20	19.90	33.25

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC,D)
Sonde ID :MST-DA-024

Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	23.55
MSCLP	7.60	29.60	23.55
INV	7.60	29.60	23.55
NOR	7.60	29.60	23.55

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-069

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	40.58	12.56
ILM	10.10	41.76	11.39
SFLU	17.49	49.15	4.00
SP	20.60	52.26	0.88

LWT ————— 53.15 ft.

Well File: VAL ENERGY ANDES 2-36 JUNE30 MSTK

Scale: 1:600 **Format:** DIL-600

Segment: V1.D1.S5 Reprocess of MAIN

Acquired: 2019-06/30 19:09 3.4.1-13968

Reference: 0

Processed: 2019-06/30 20:09 3.4.1-13968

TENSION LBS	0
10000	0

DEEP INDUCTION OHMM	
0.0	500.0
0.0	50.0

SPONTANEOUS POTENTIAL mV	
------------------------------------	--

SHALLOW FOCUSED RESISTIVITY OHMM	
0.0	500.0

→ ← 20

0.0 500.0
0.0 50.0

GAMMA RAY
API UNITS

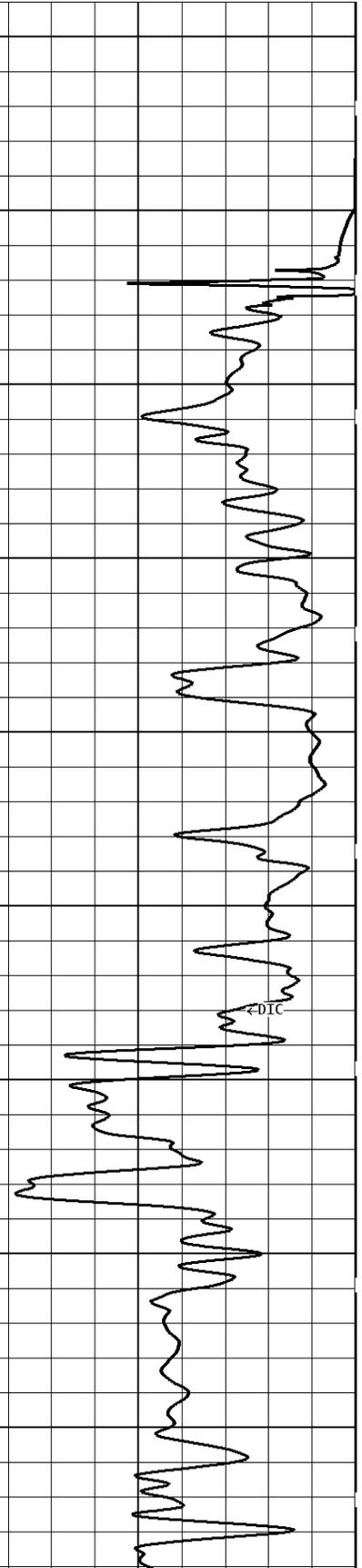
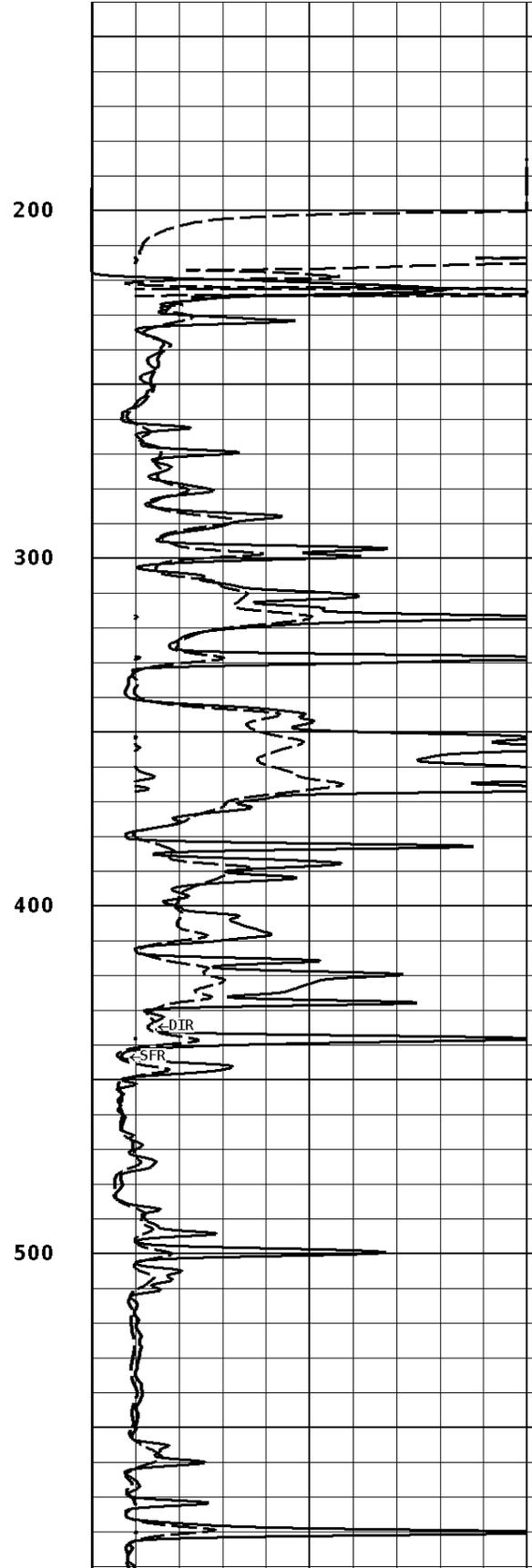
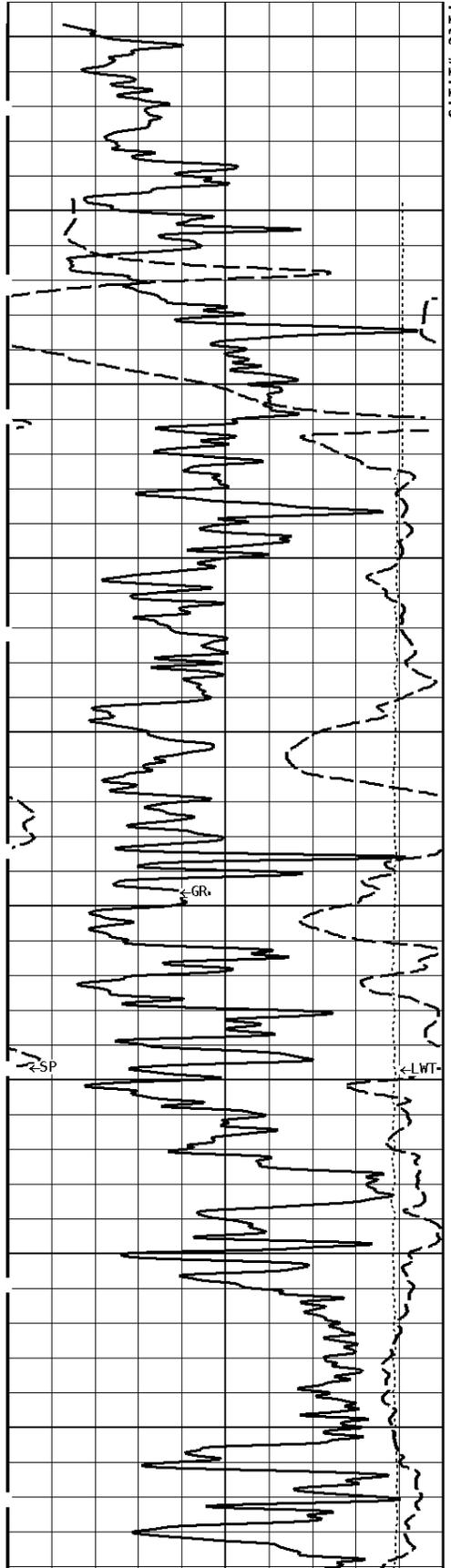
DEEP CONDUCTIVITY
MMHO

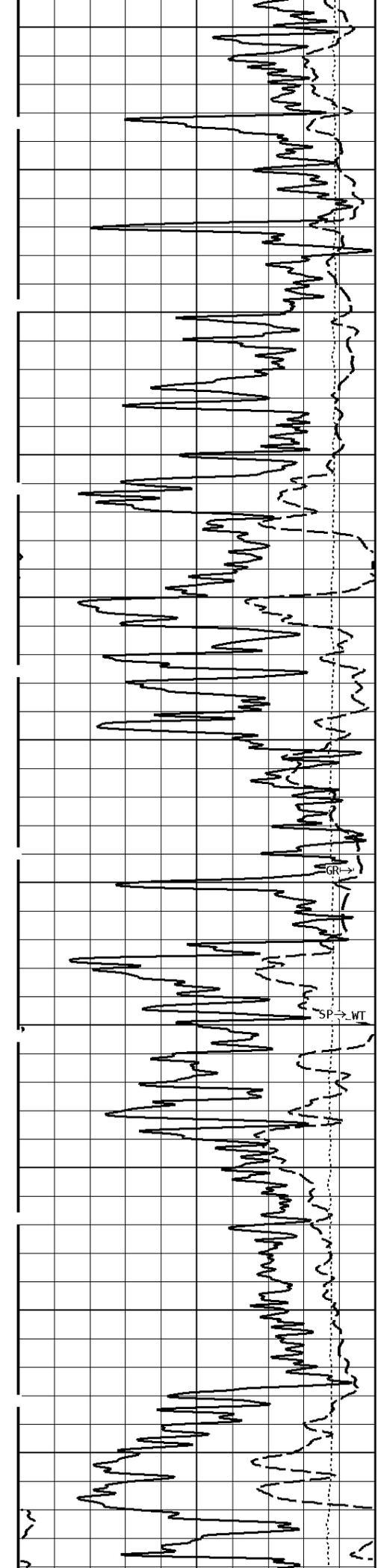
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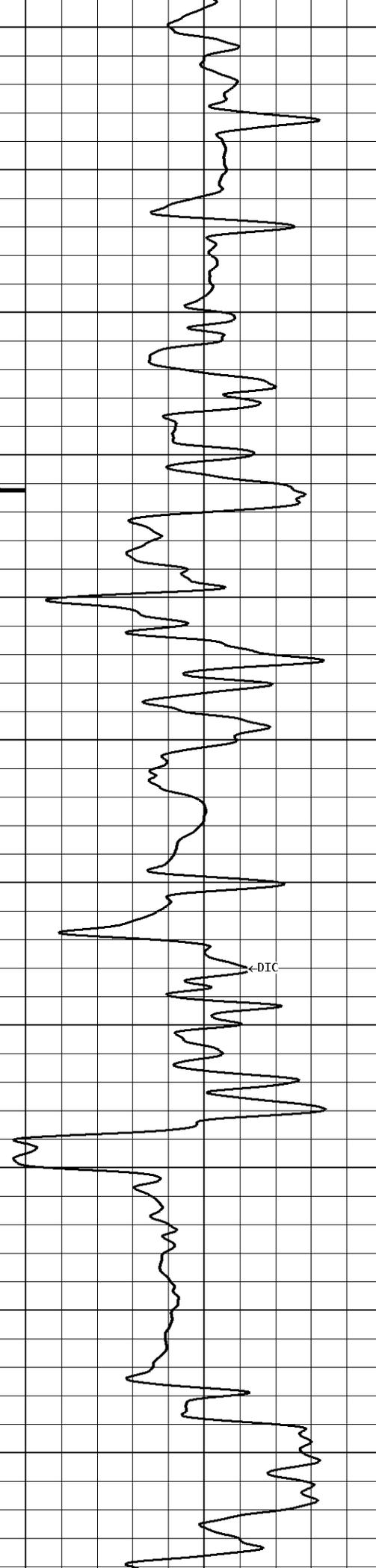
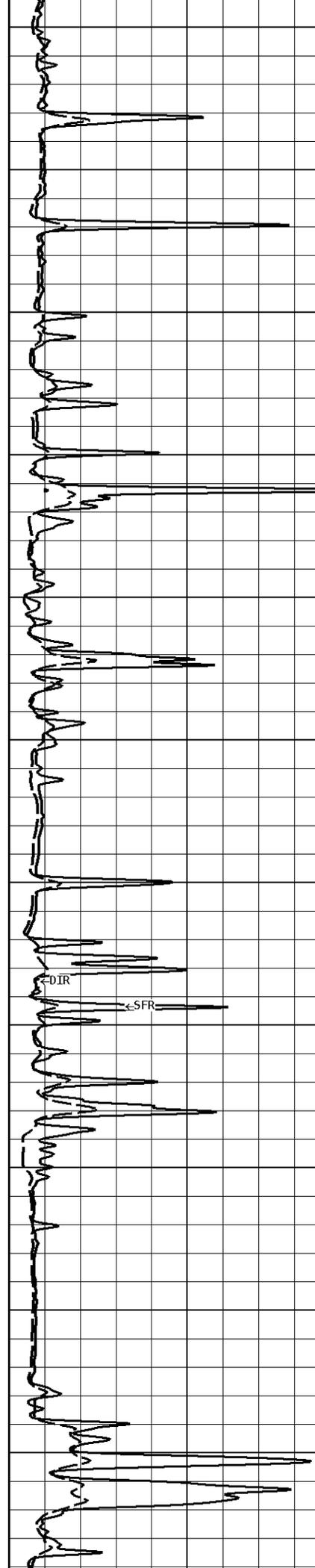
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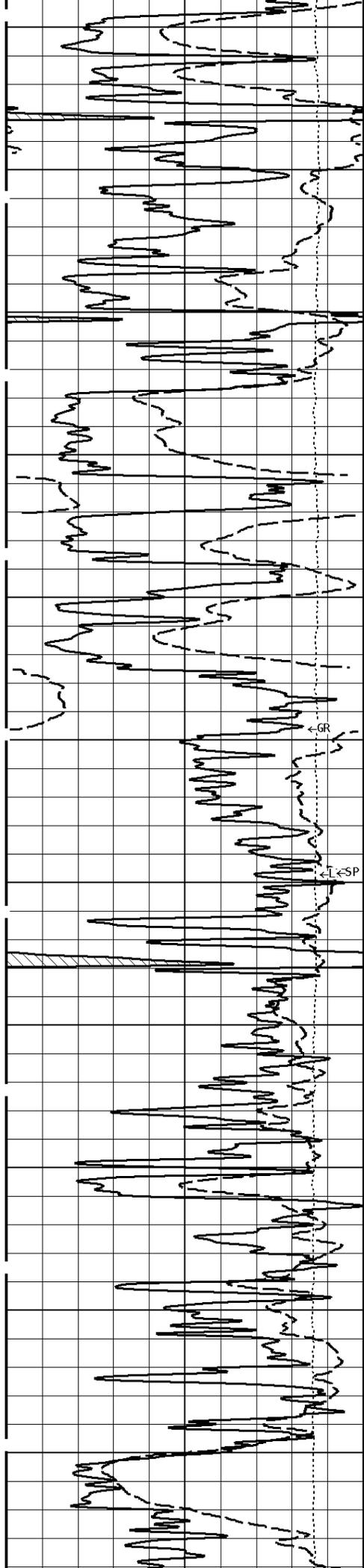
1:600 MAIN SECTION





600
700
800
900
1000
1100





1200

1300

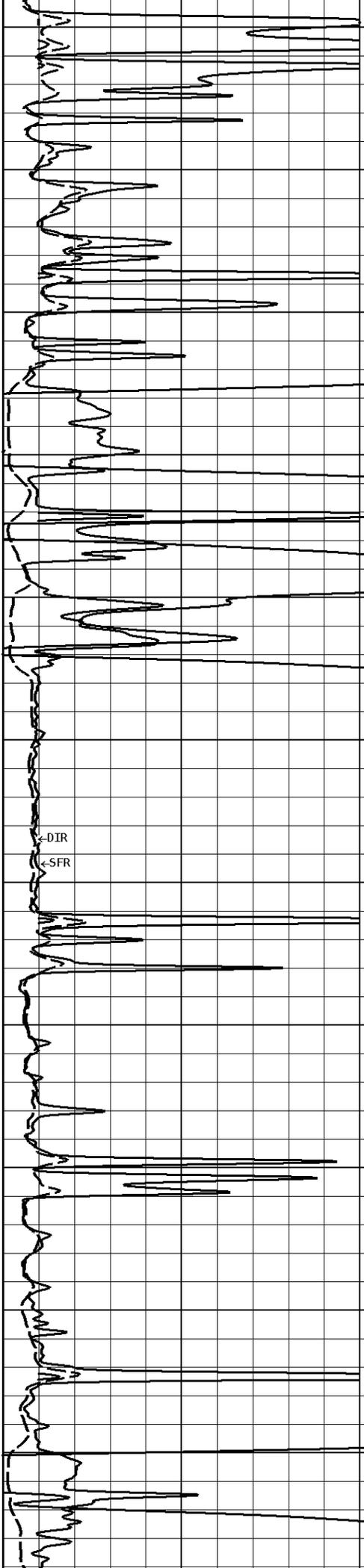
1400

1500

1600

←GR

←LSP

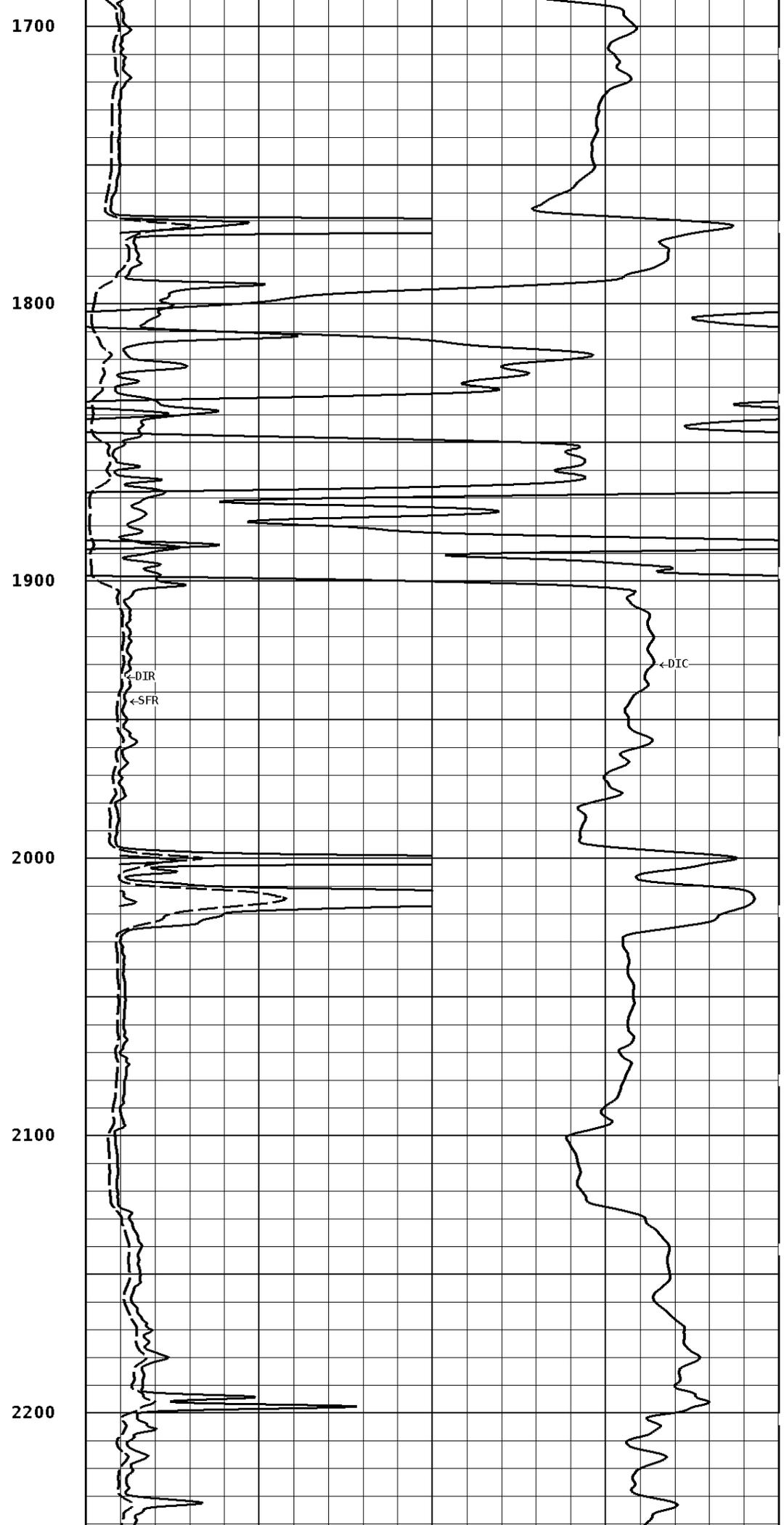
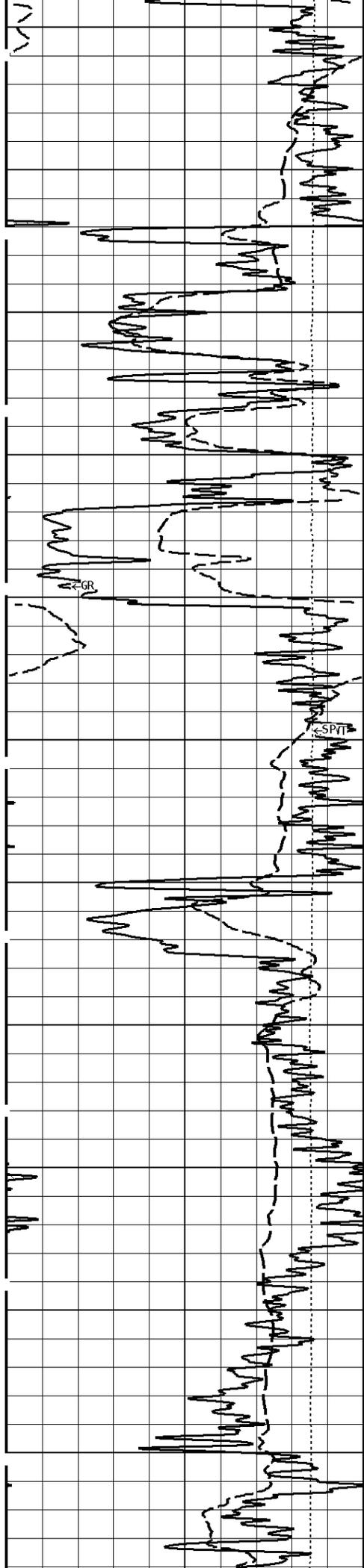


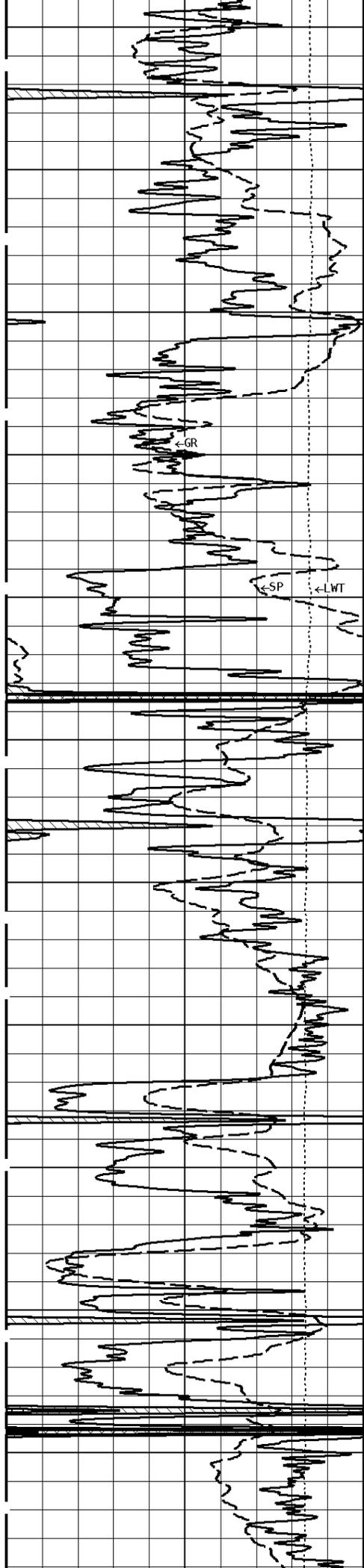
←DIR

←SFR



←DIC





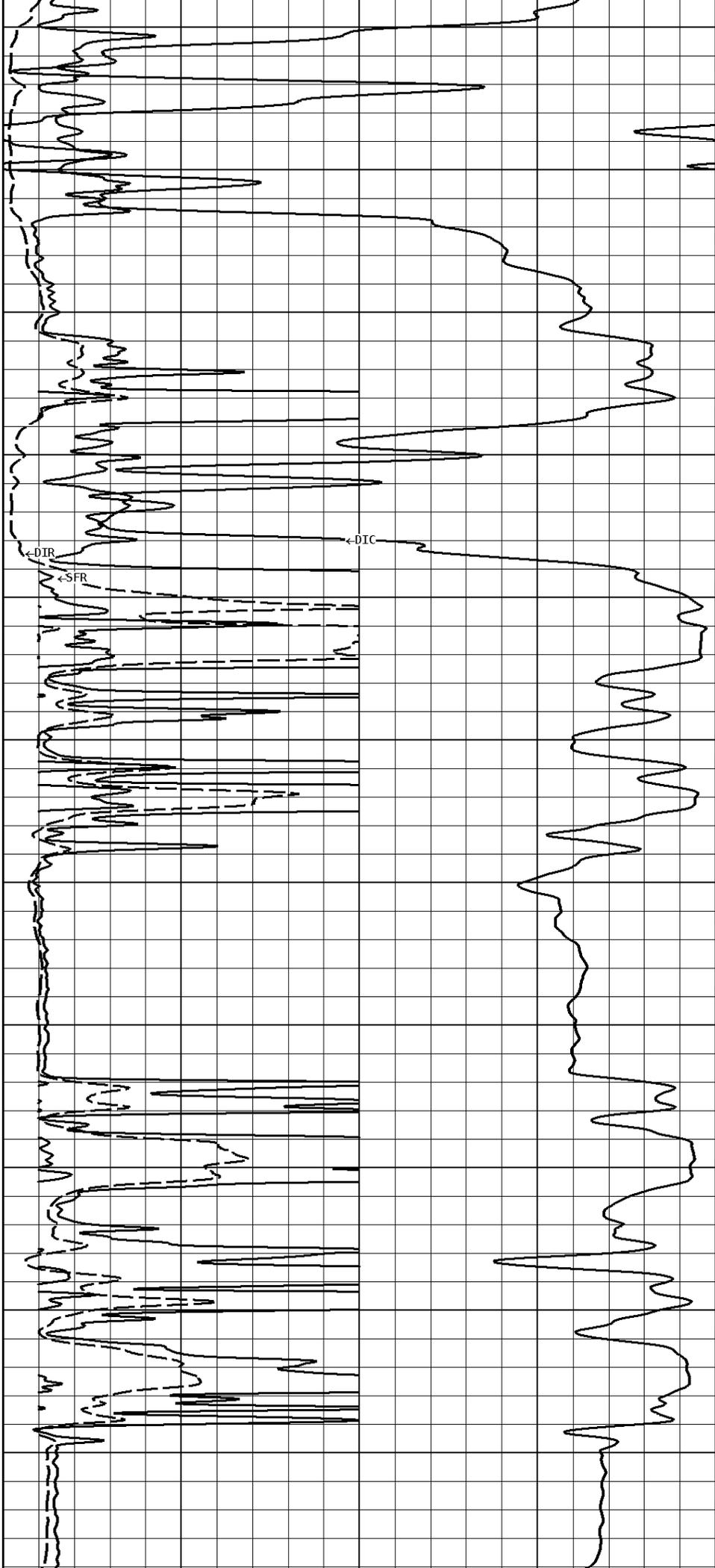
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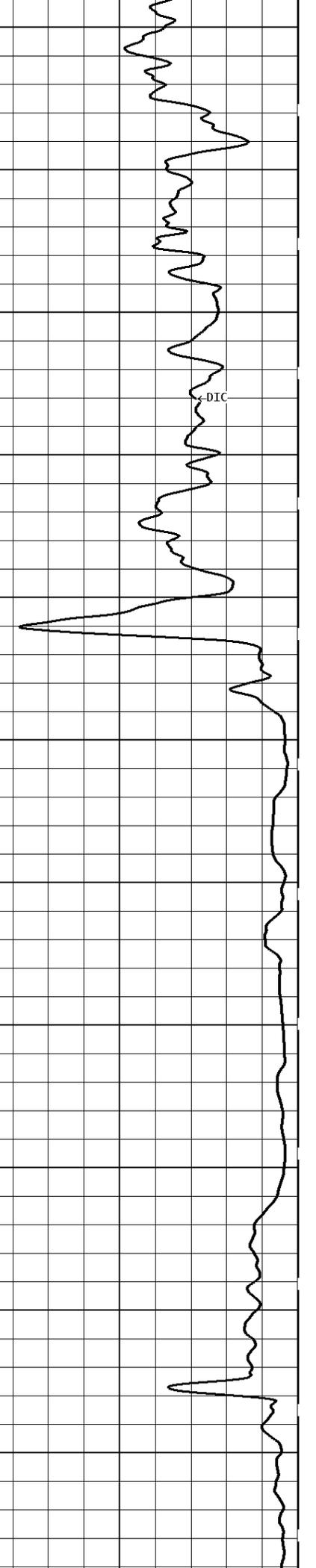
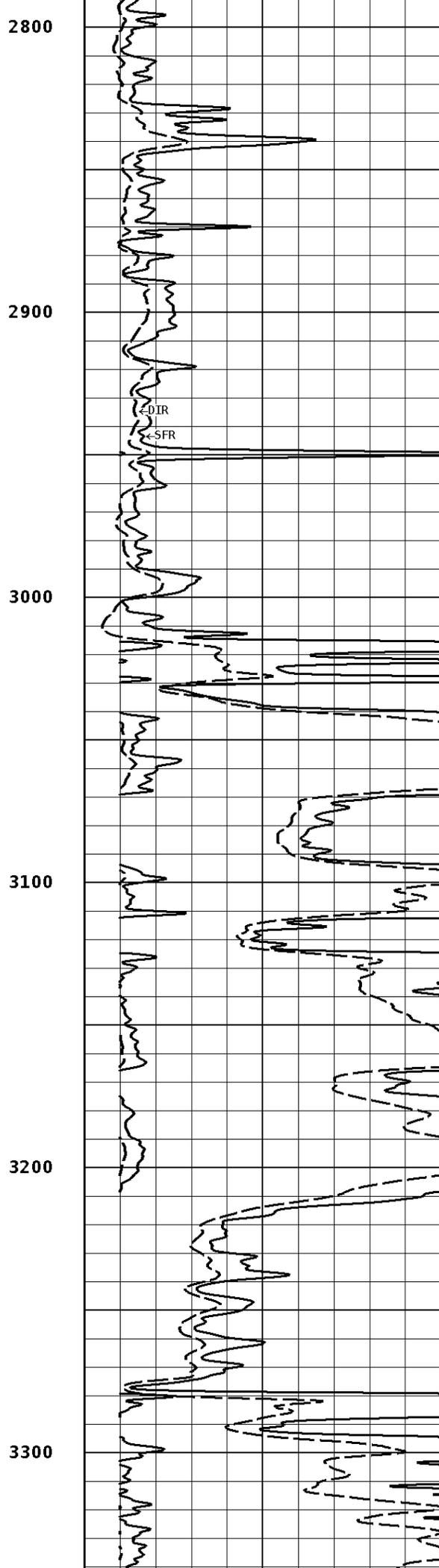
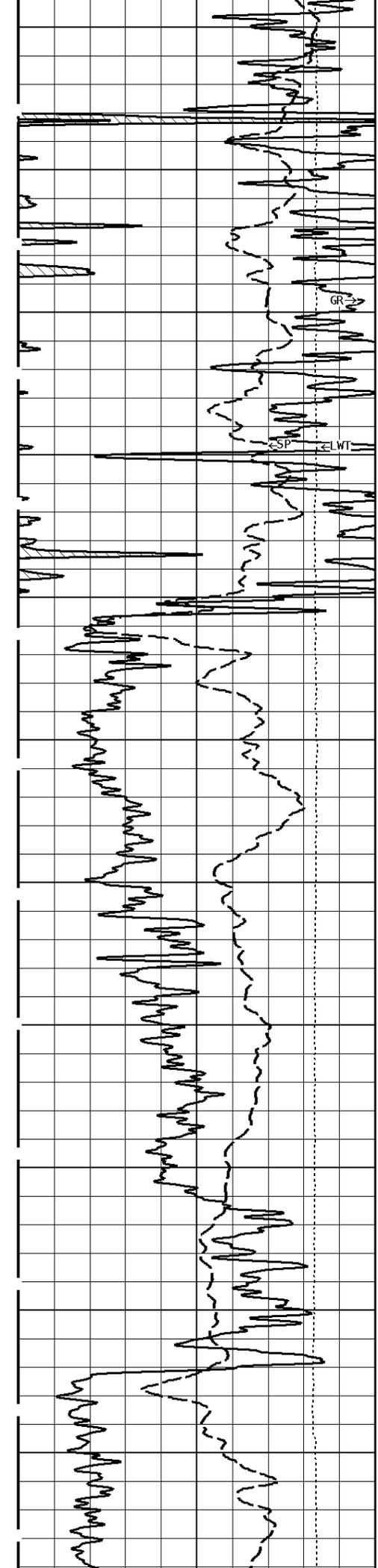
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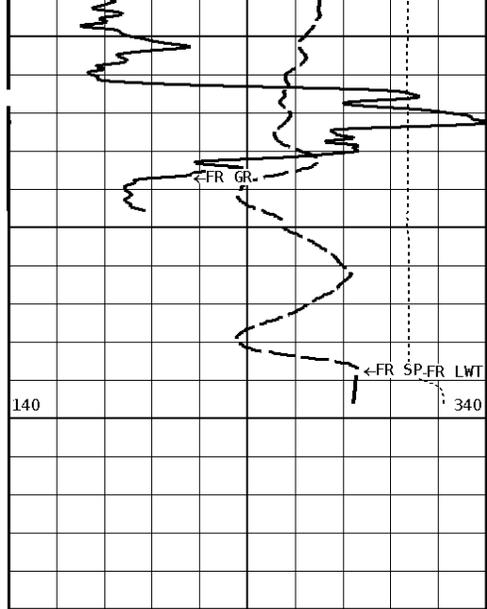
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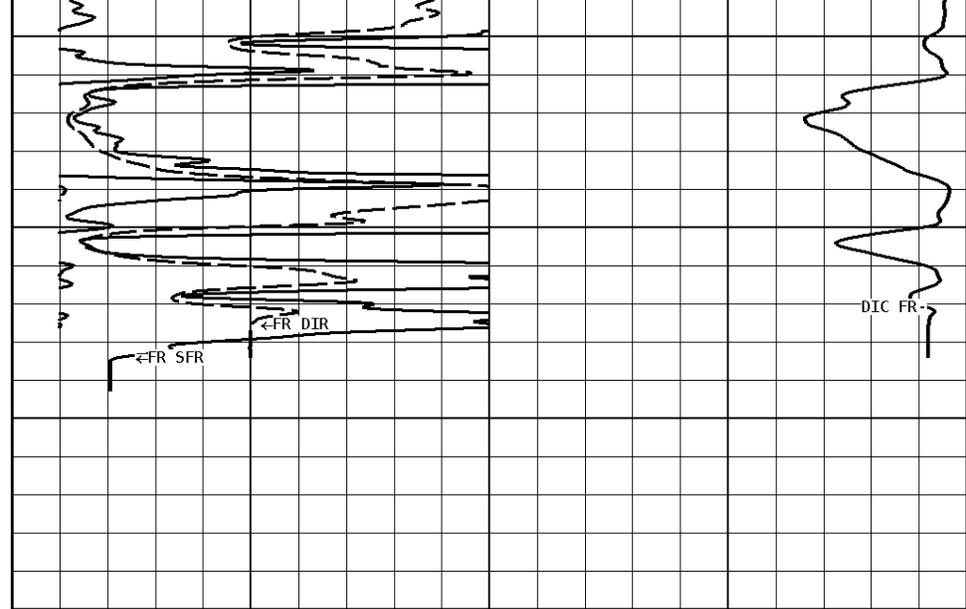
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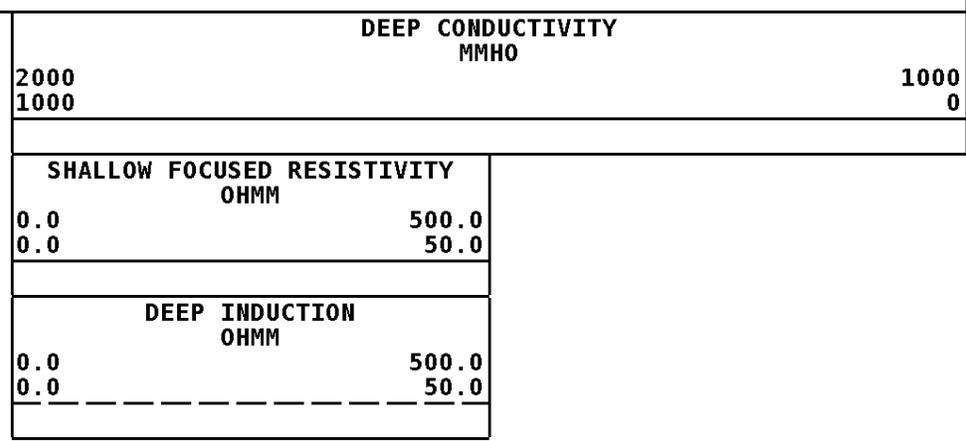
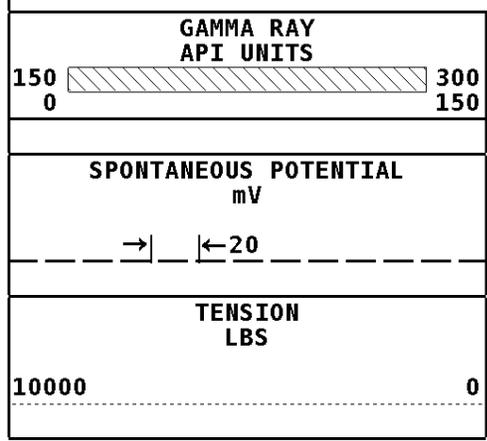




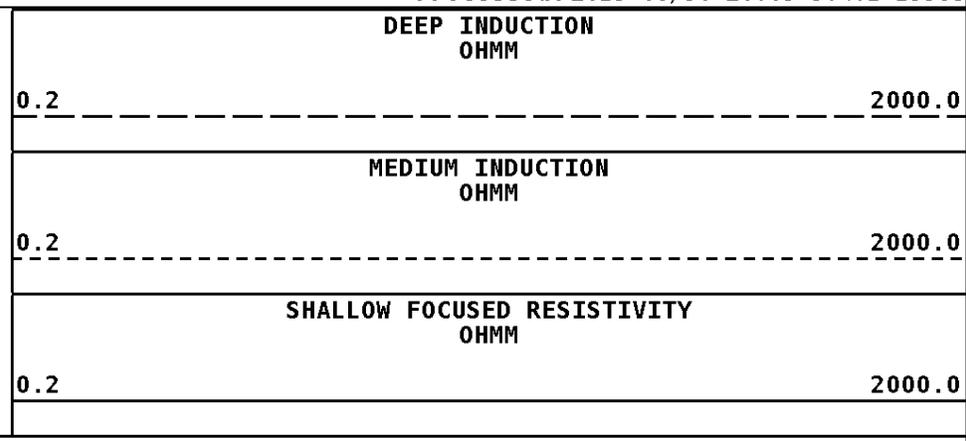
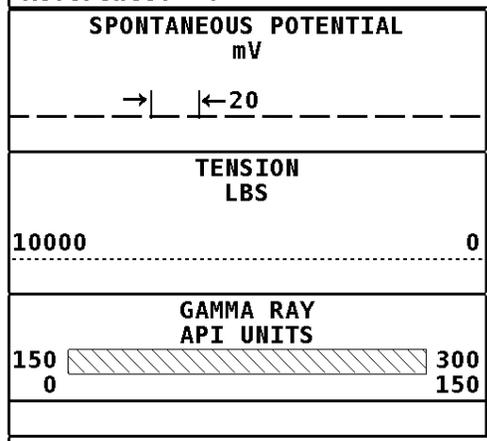
3400
3439



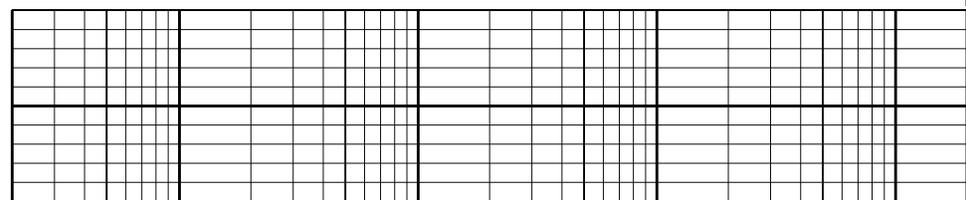
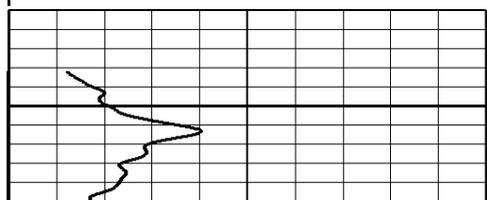
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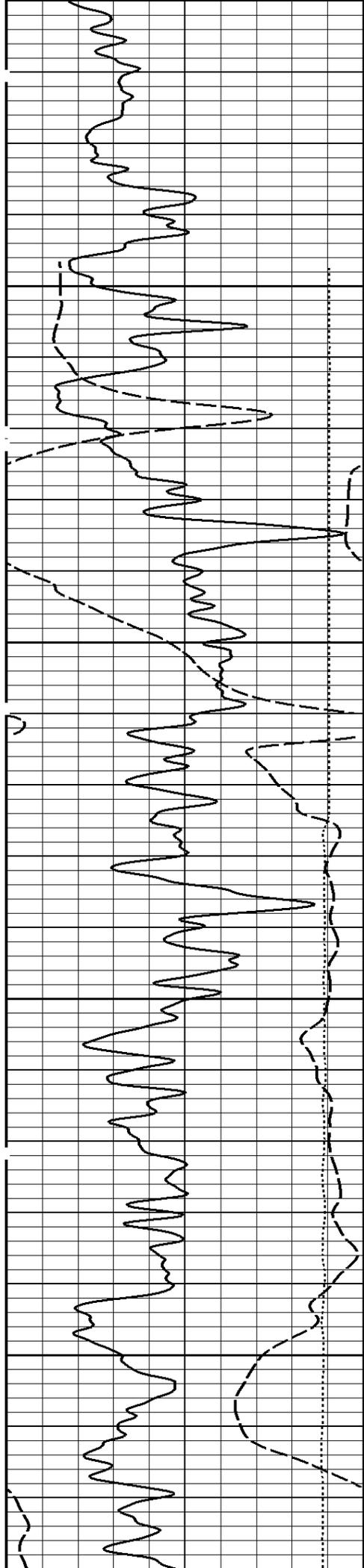


Well File: VAL ENERGY ANDES 2-36 JUNE30_MSTK Scale: 1:240 Format: DIL-240
 Segment: V1.D1.S5 Reprocess of MAIN Acquired: 2019-06/30 19:09 3.4.1-13968
 Reference: 0 Processed: 2019-06/30 20:09 3.4.1-13968



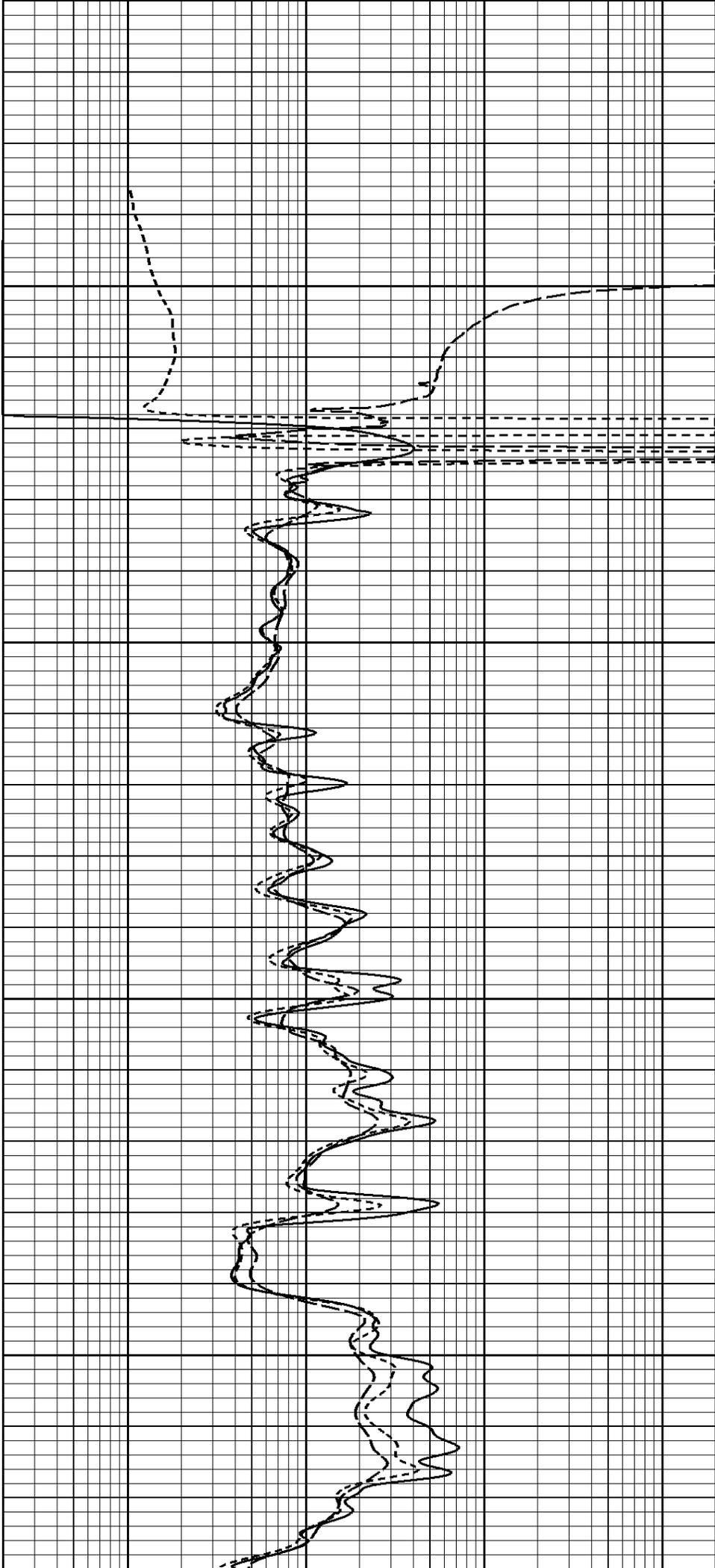
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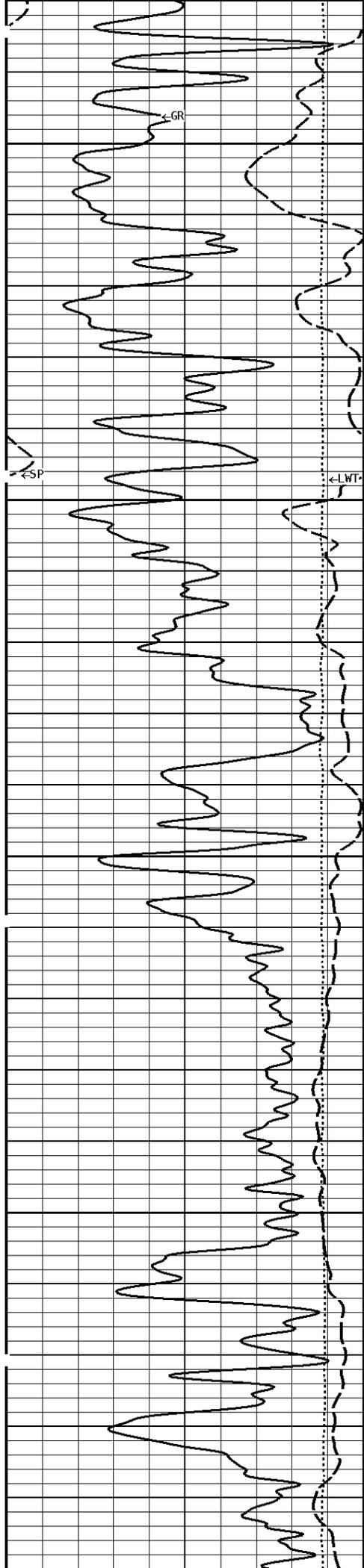




200

300

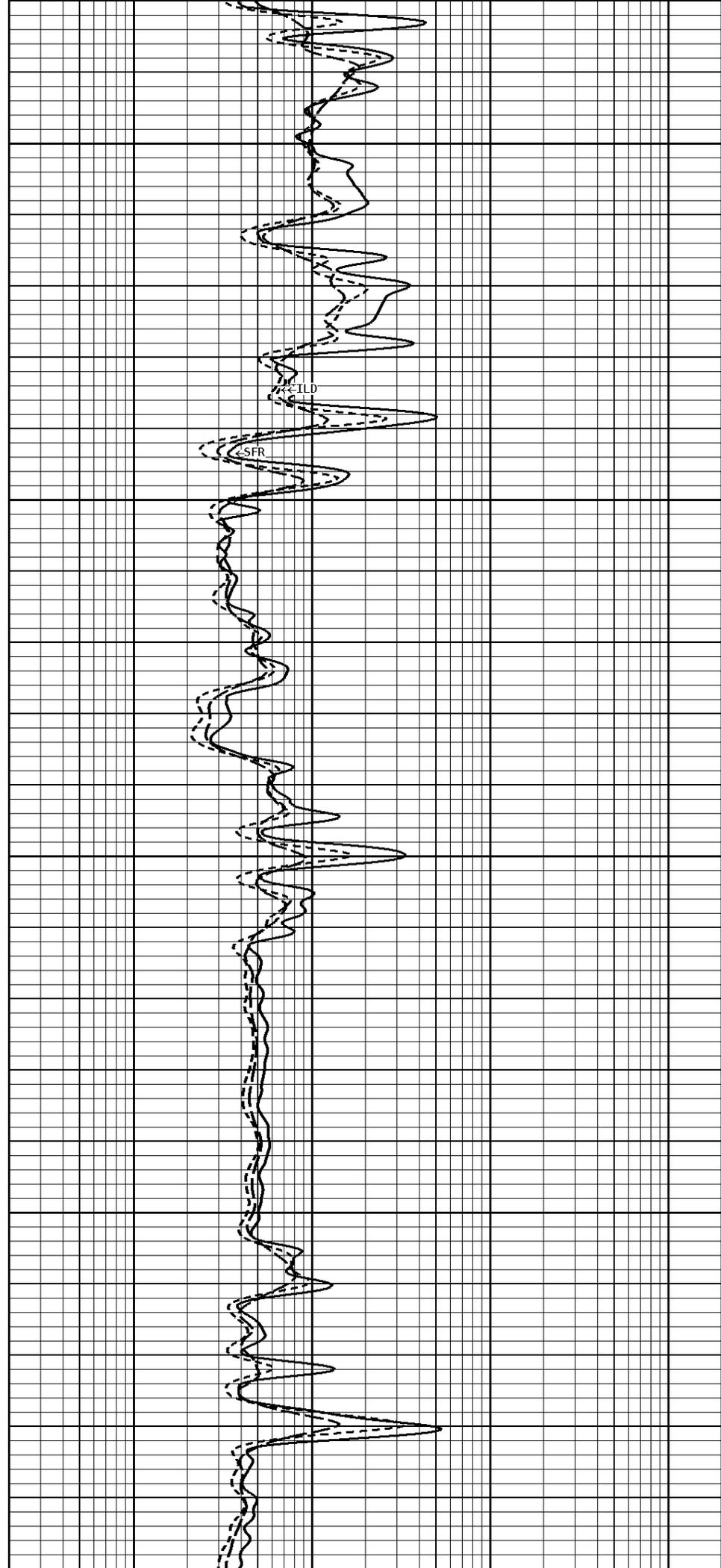




400

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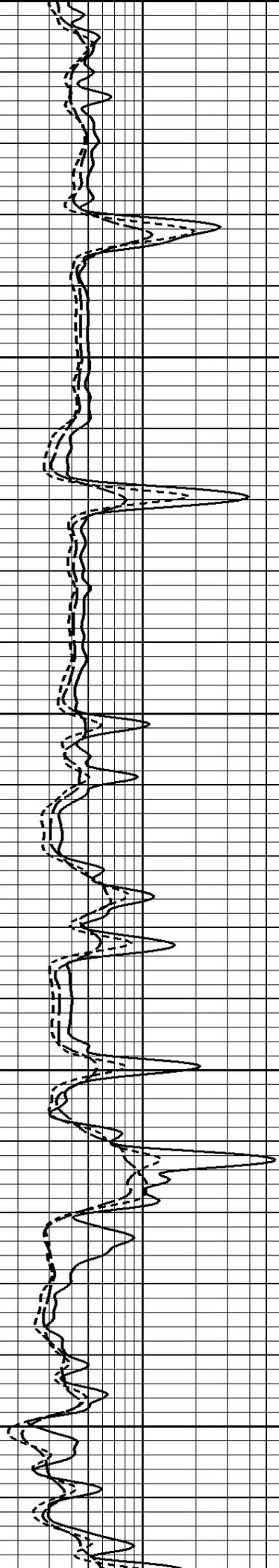
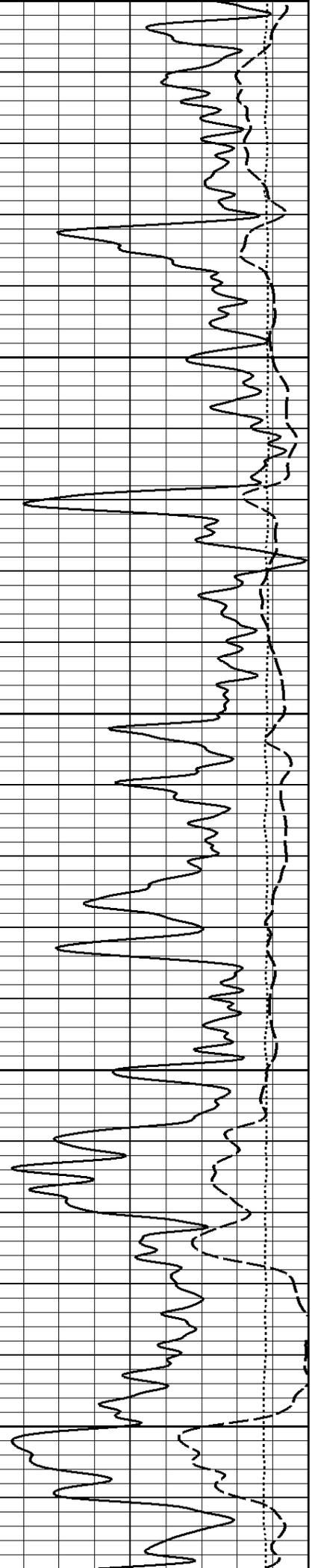
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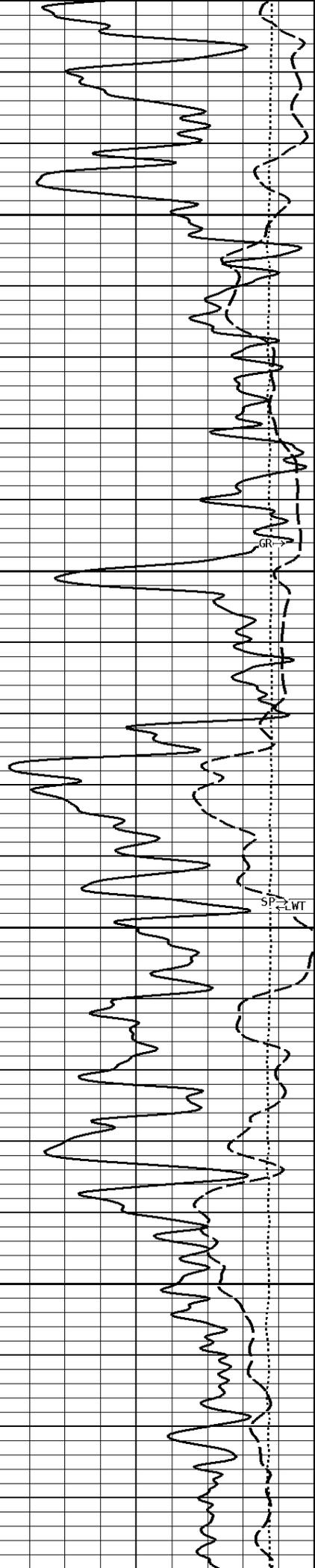


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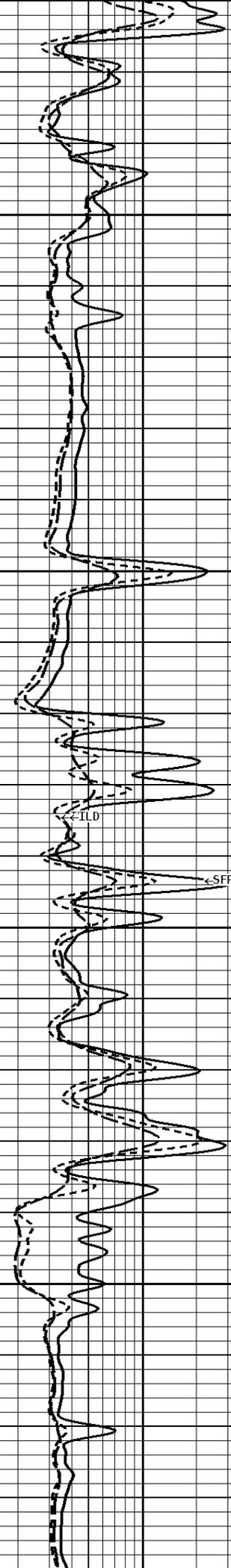
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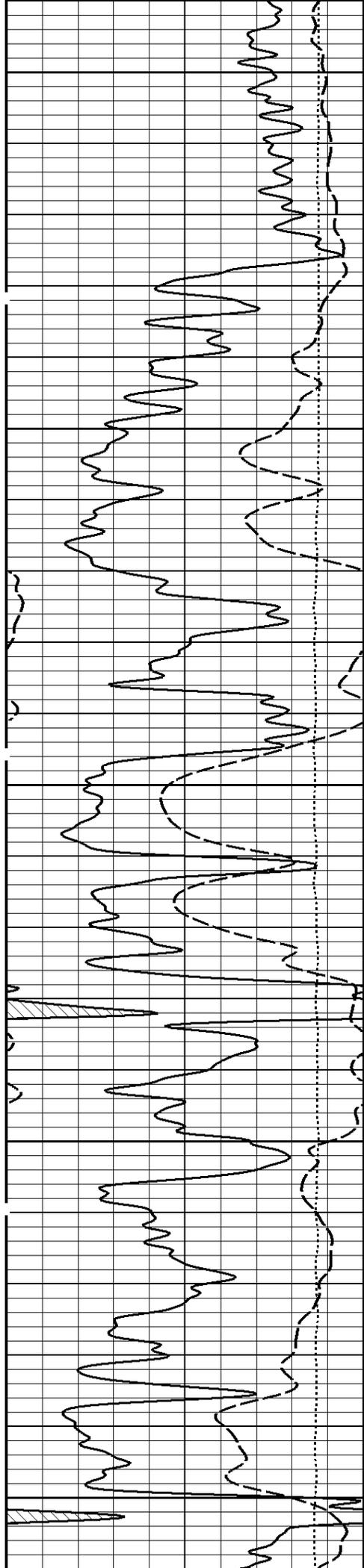
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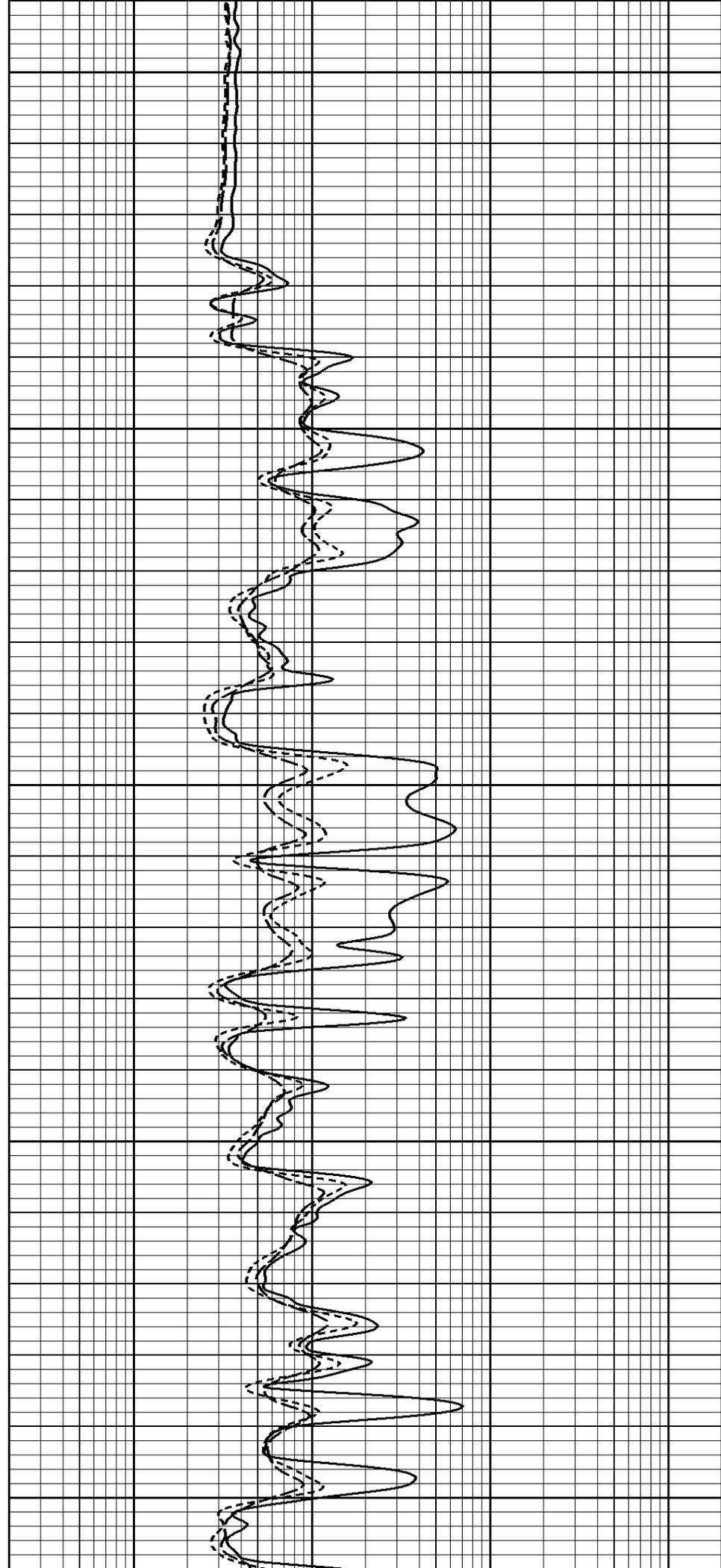
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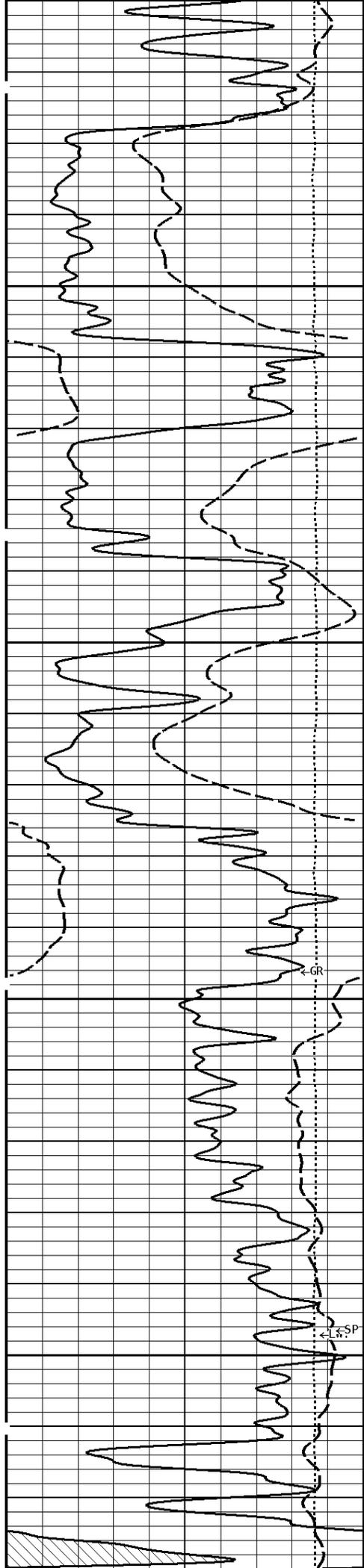
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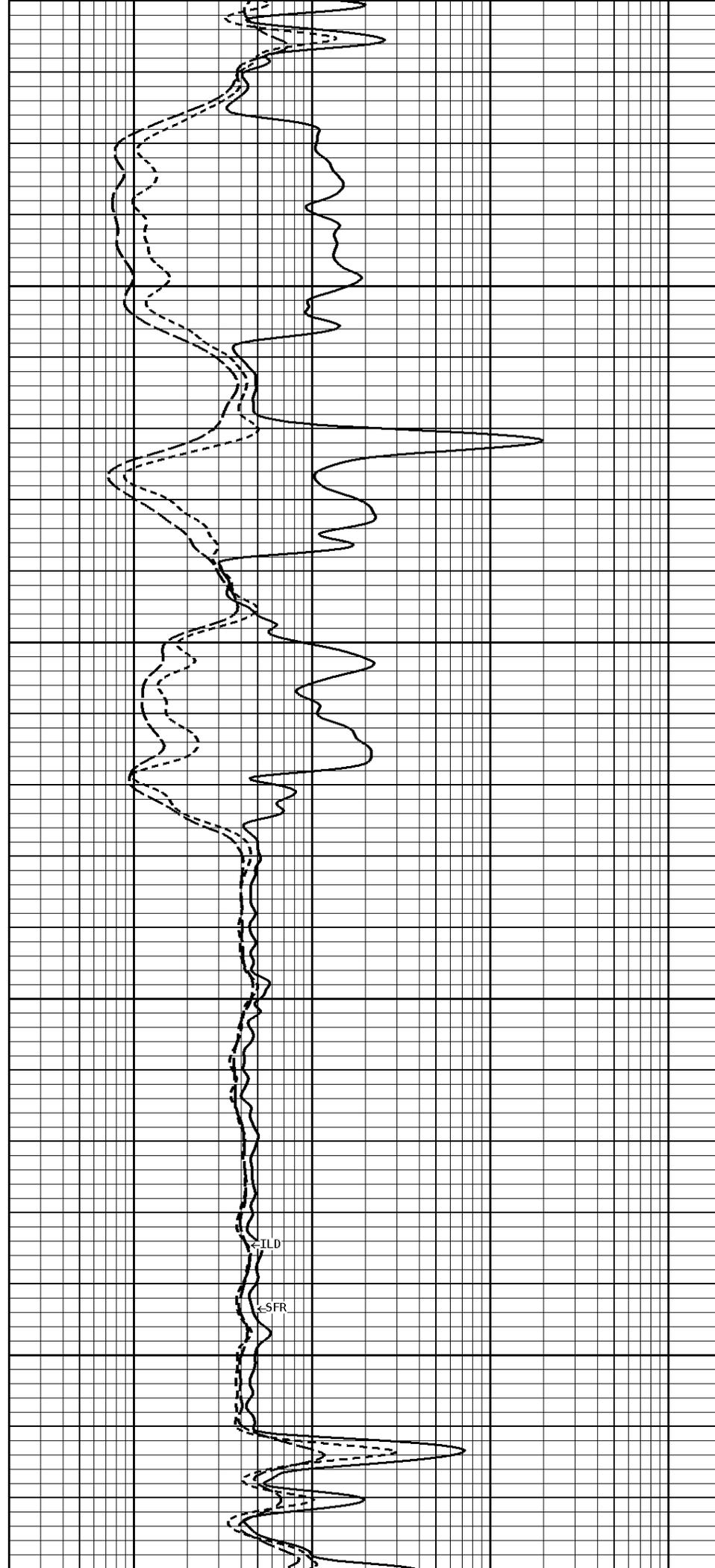
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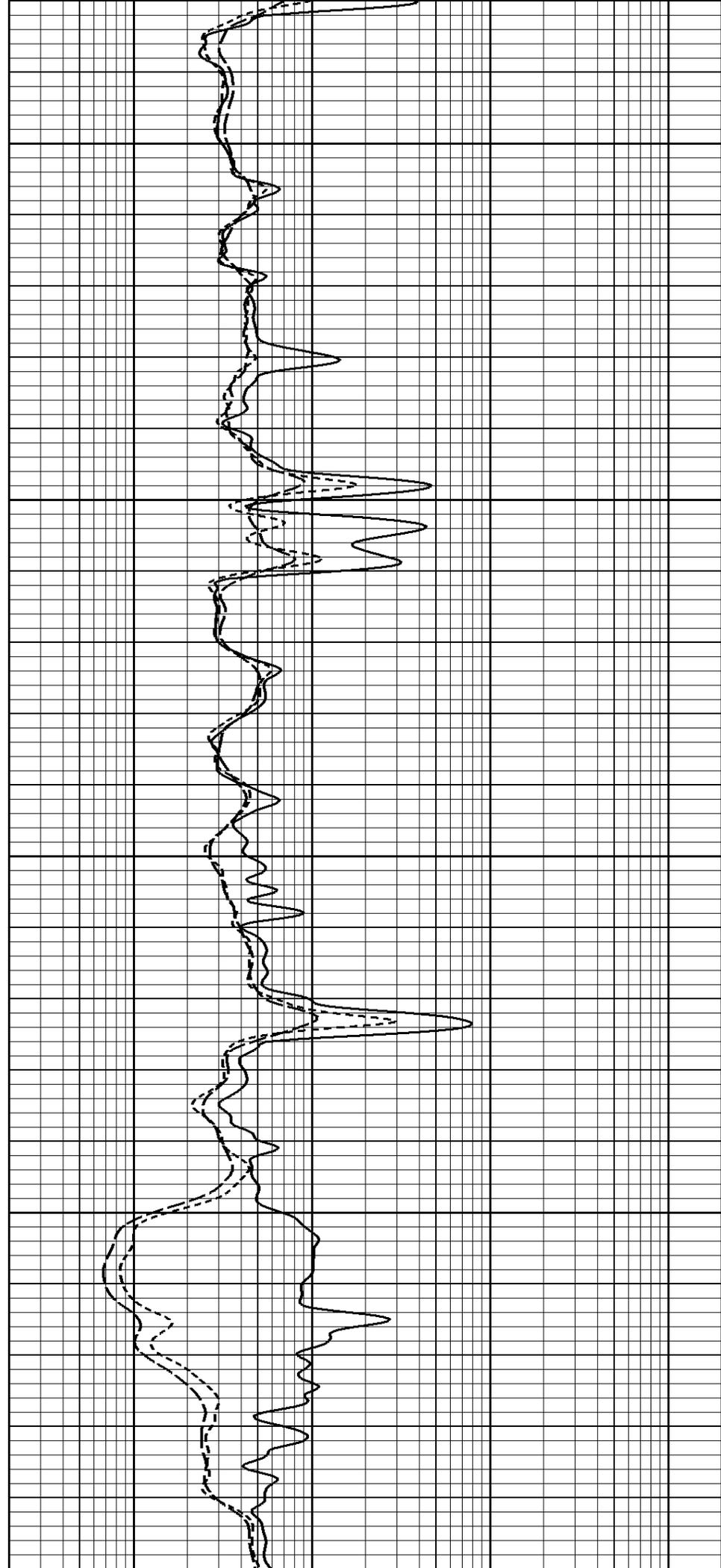
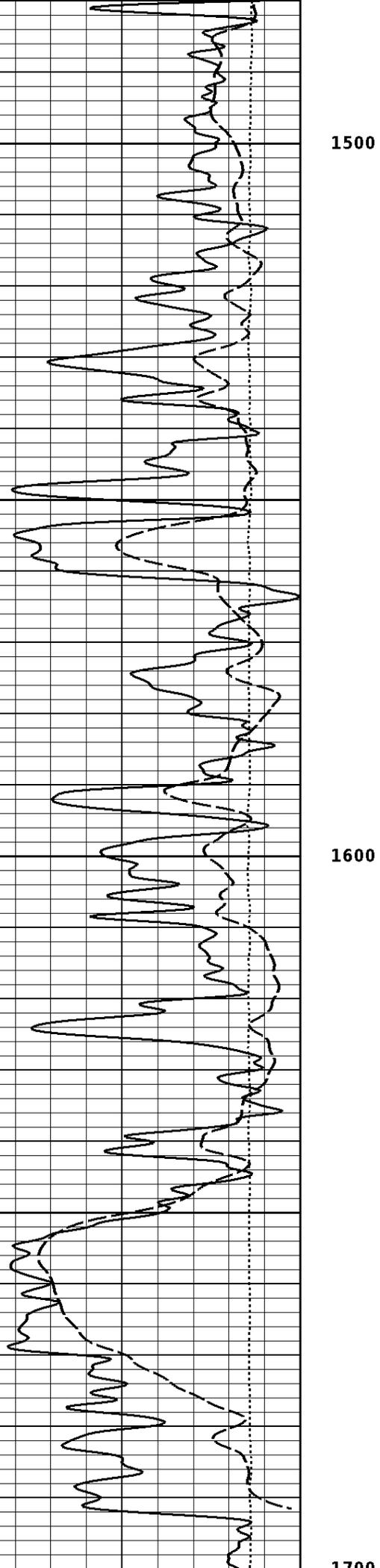


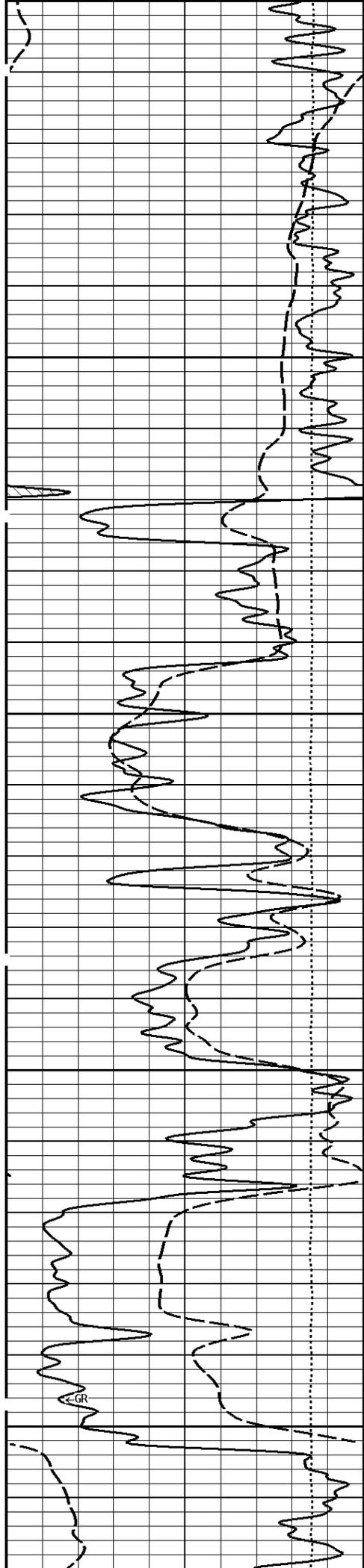


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1400



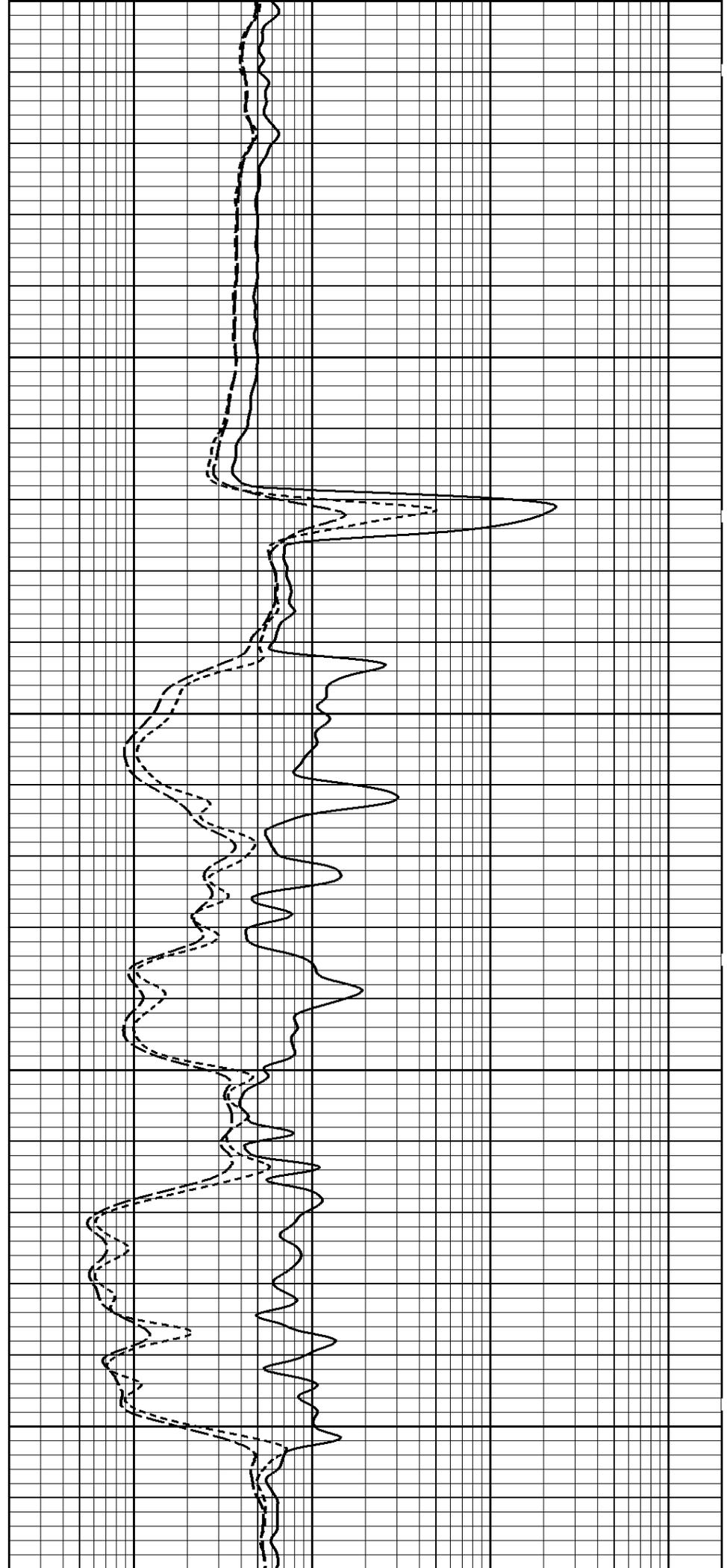


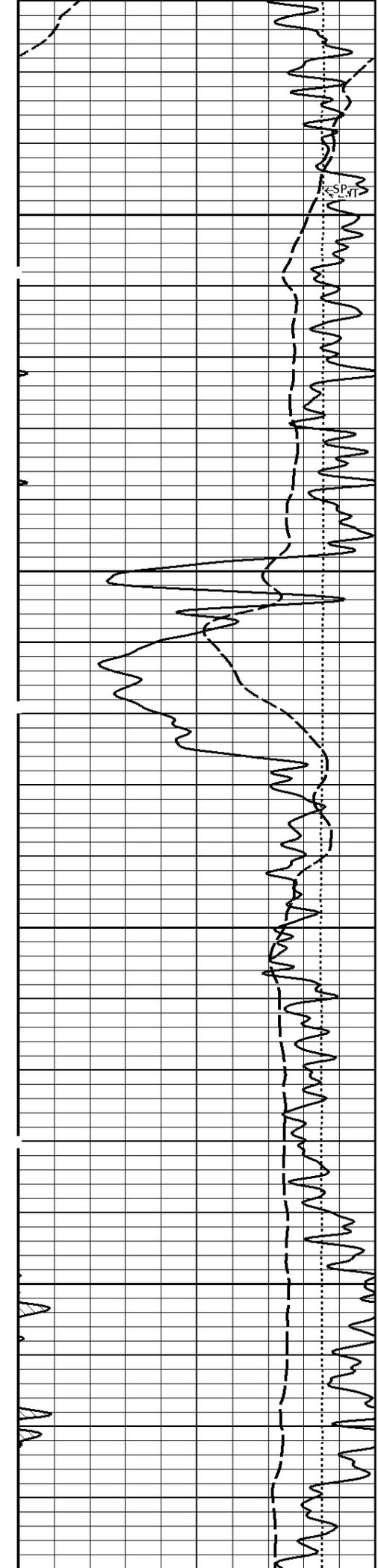


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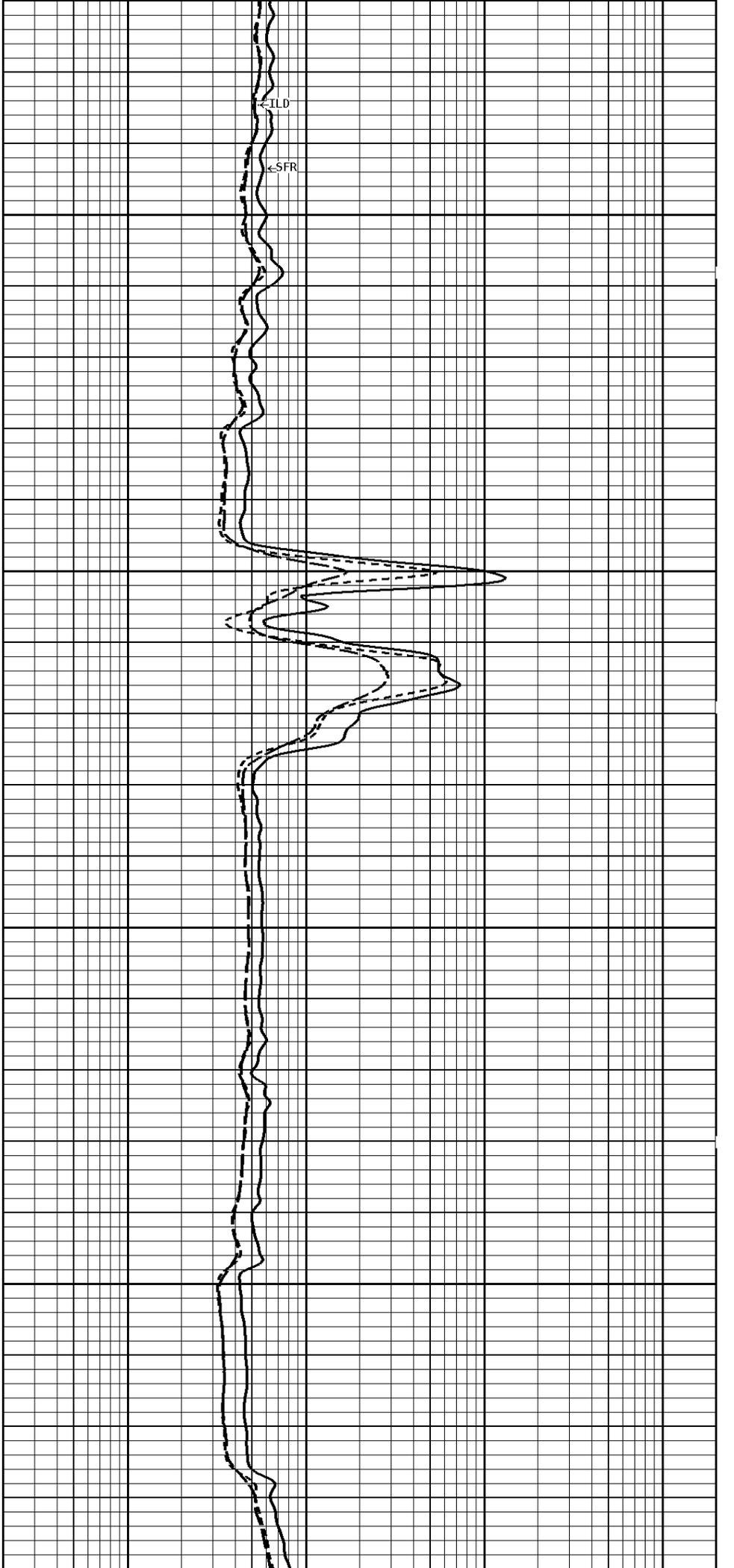
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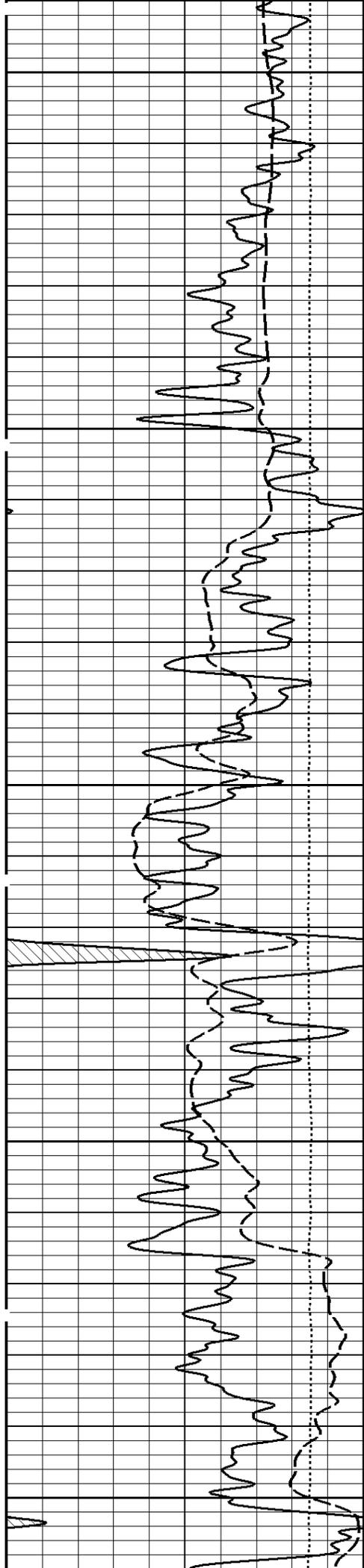
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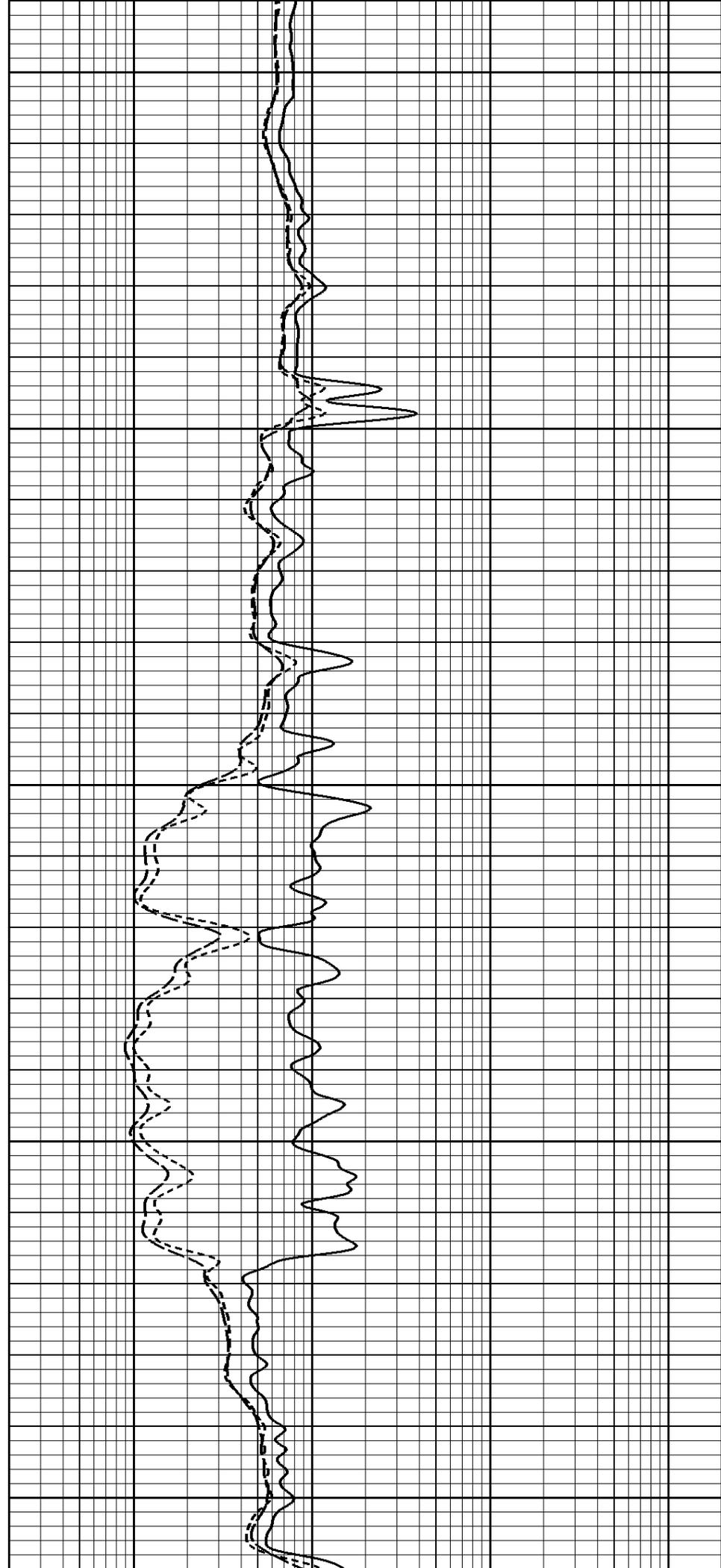
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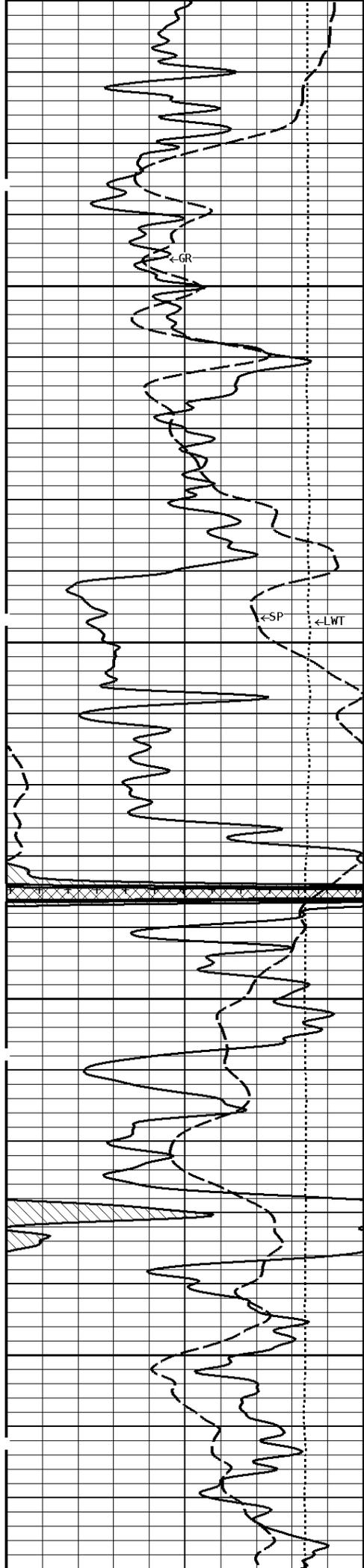
eSFR



2200

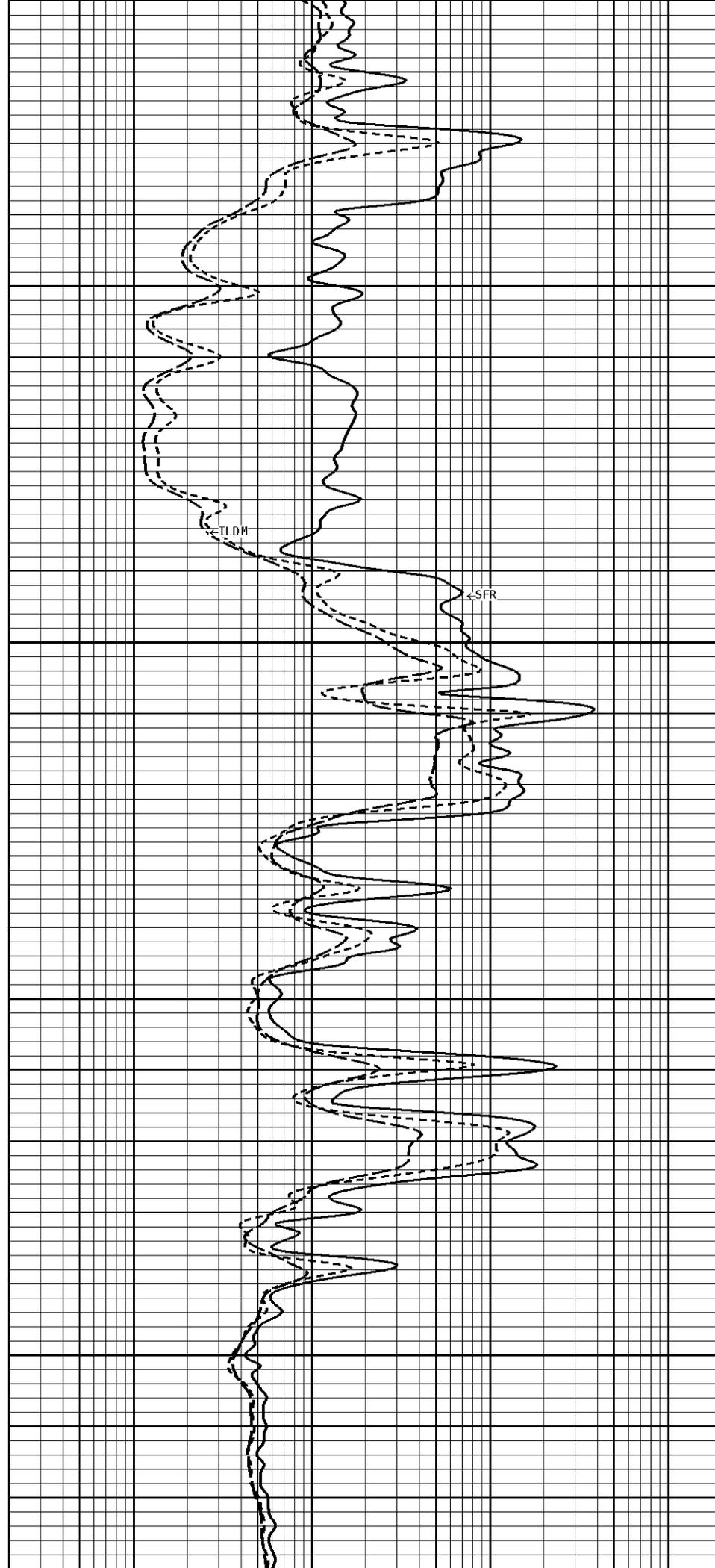
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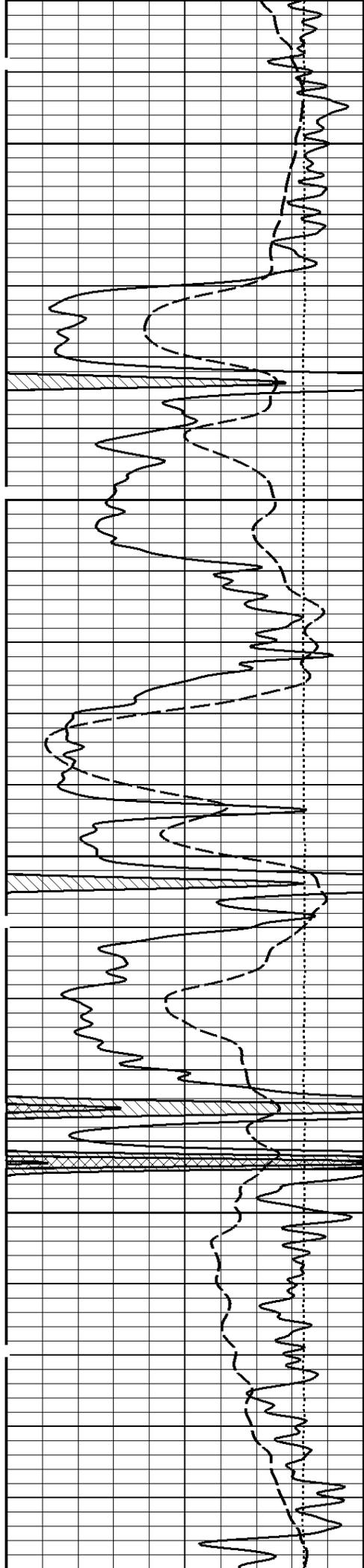
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ILD

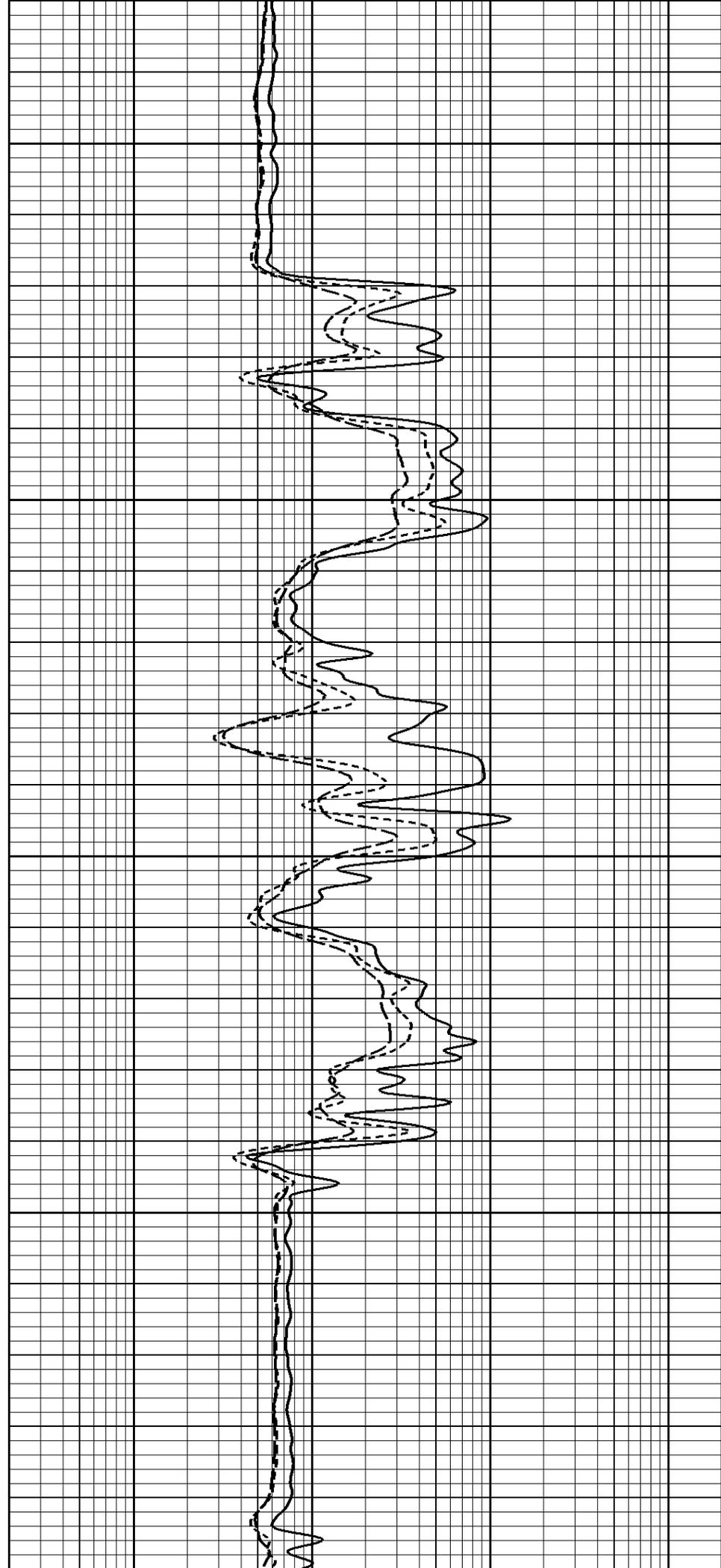
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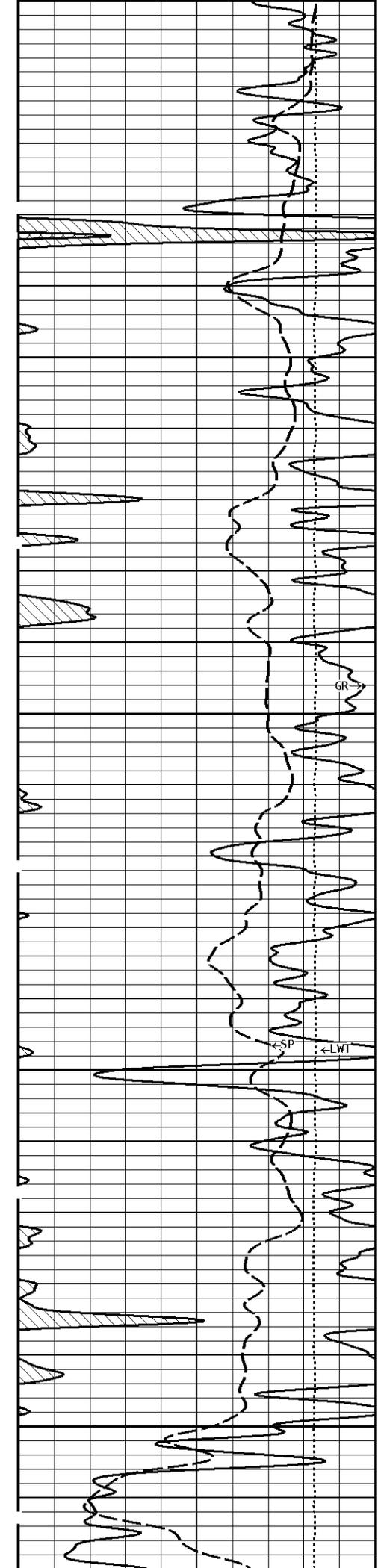


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2700

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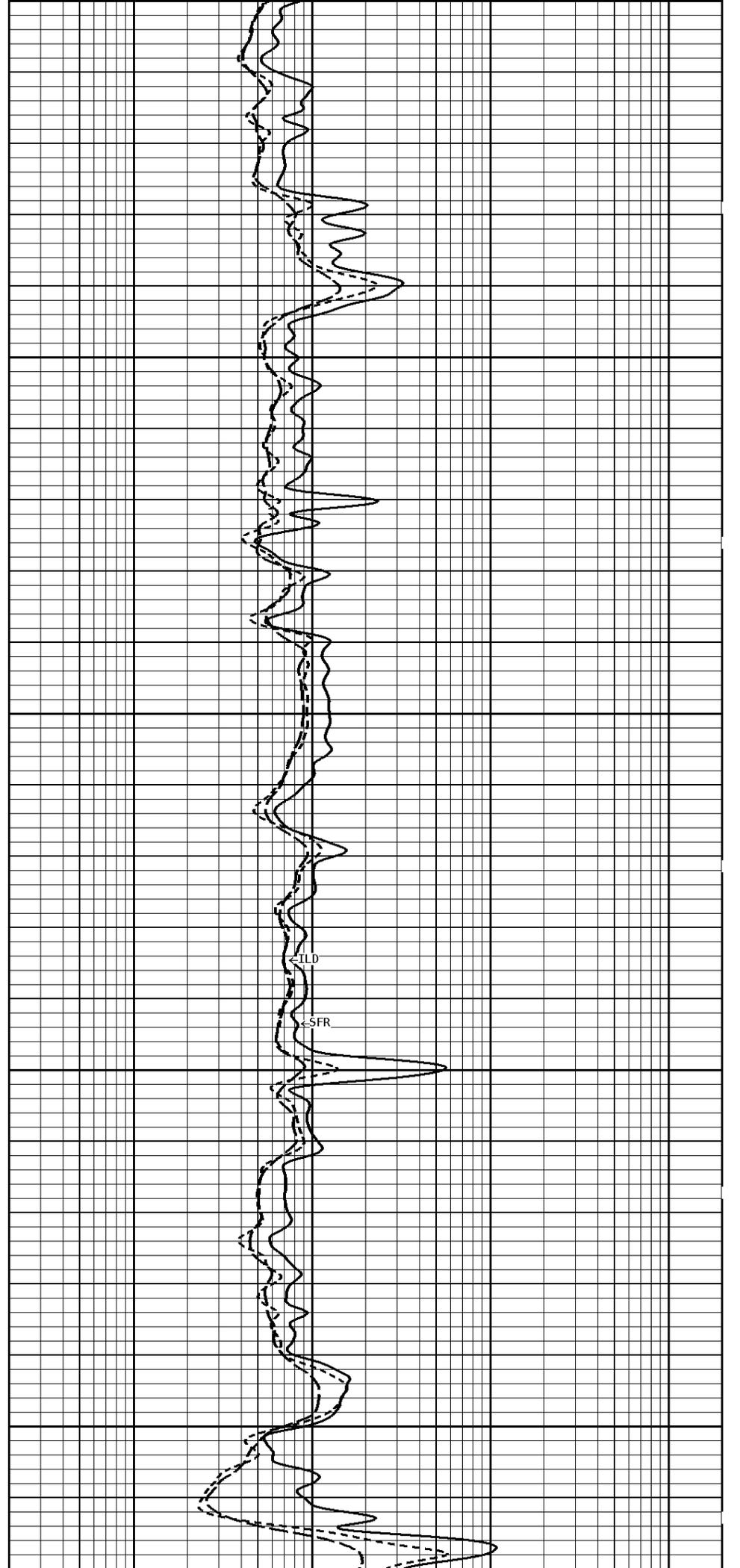


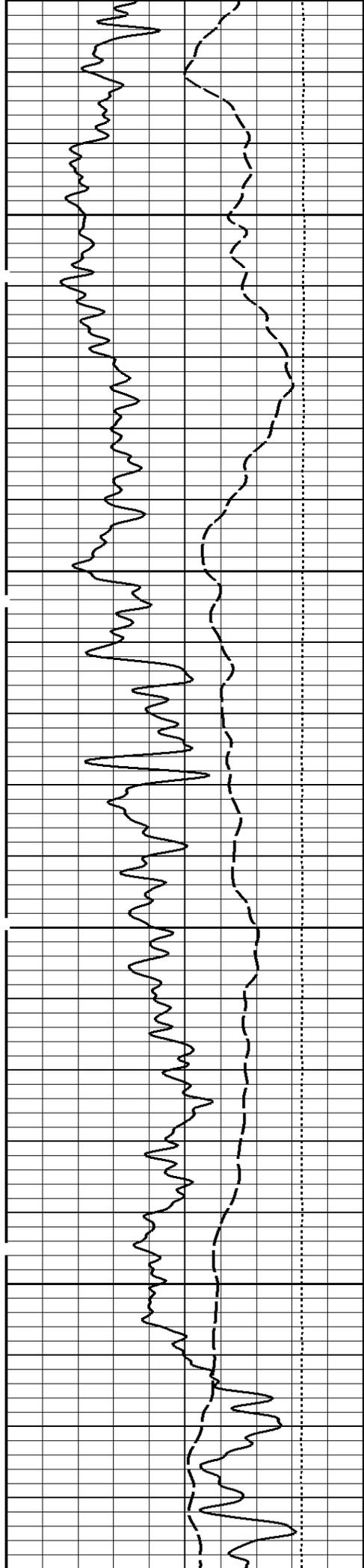


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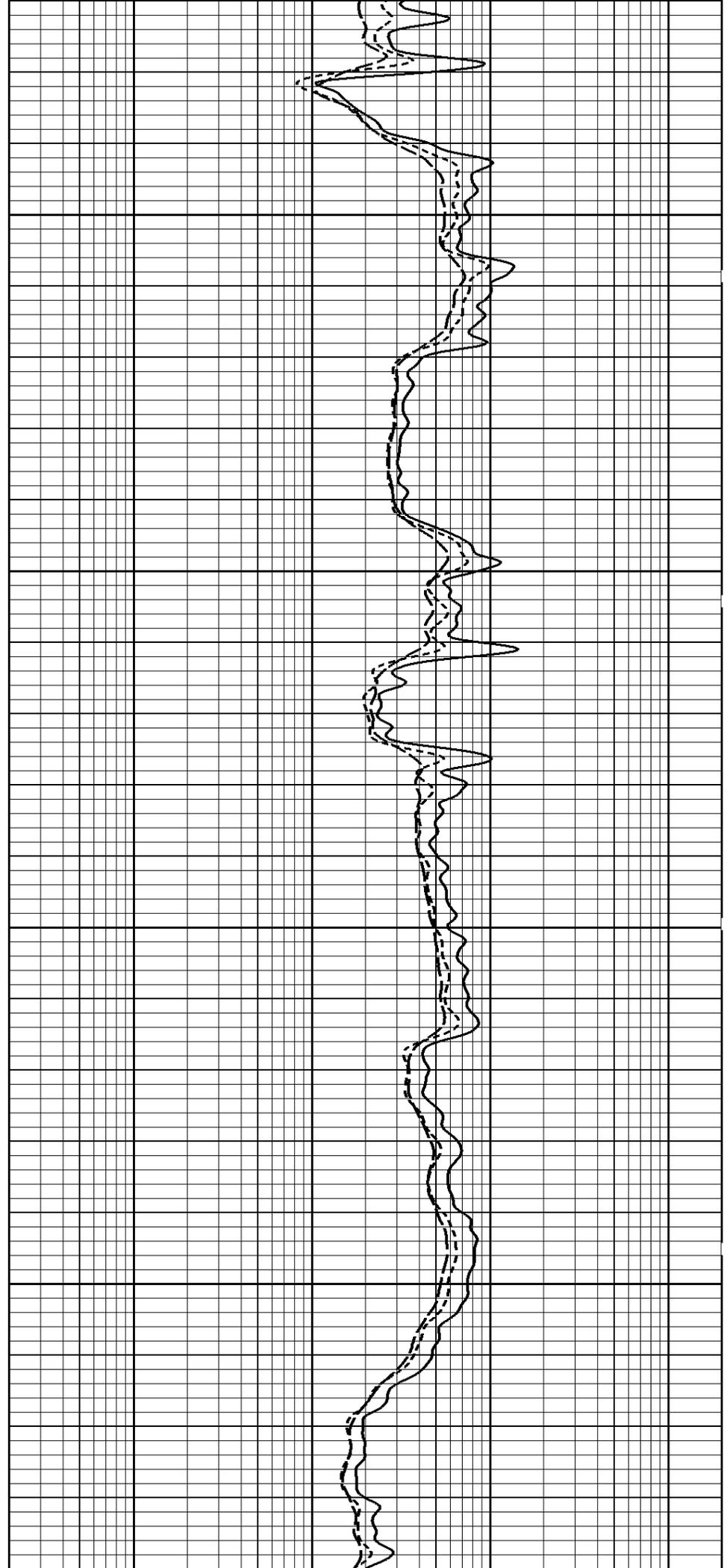
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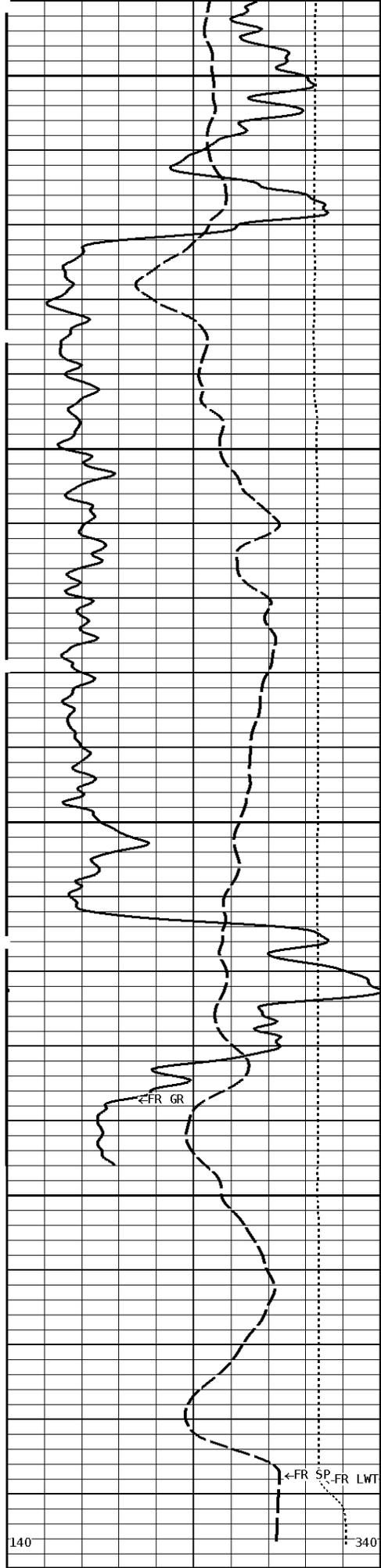




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3200





3300

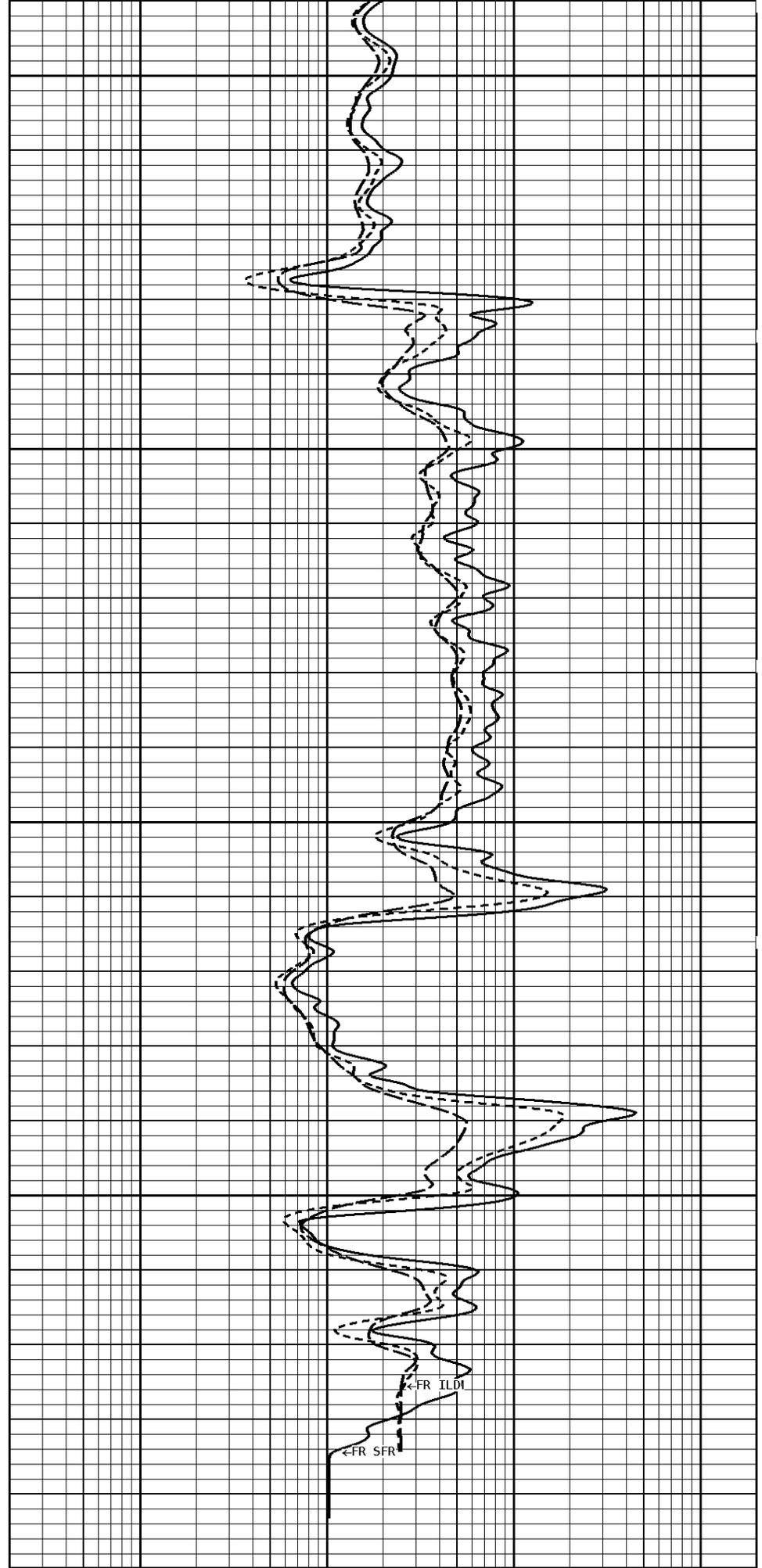
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3439

140

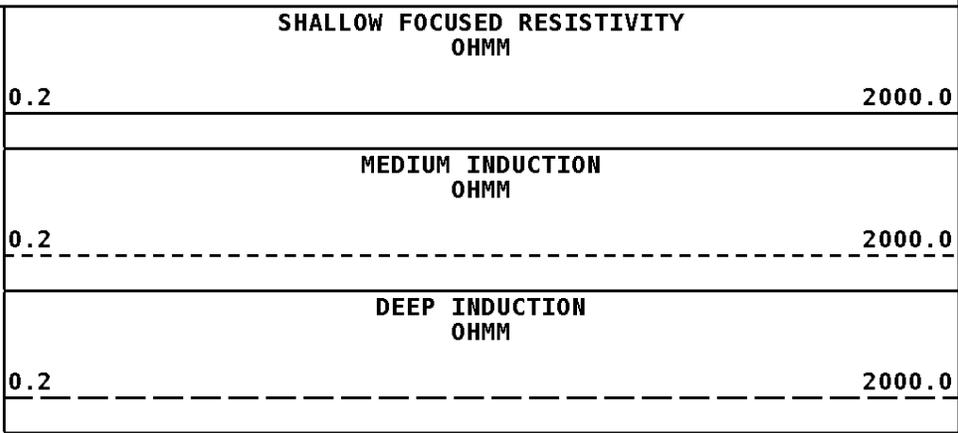
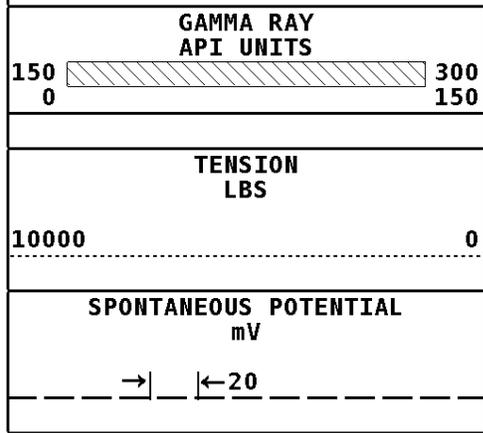
File #1.1.5

1:240 MAIN SECTION



CFR SFR

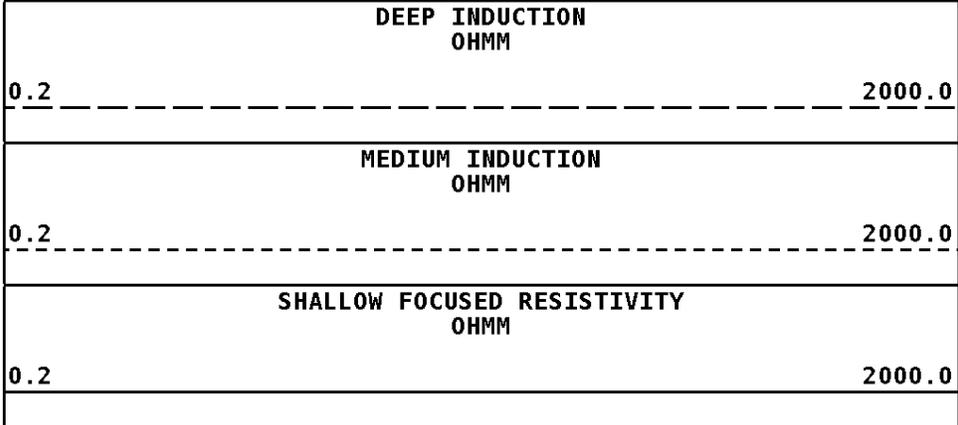
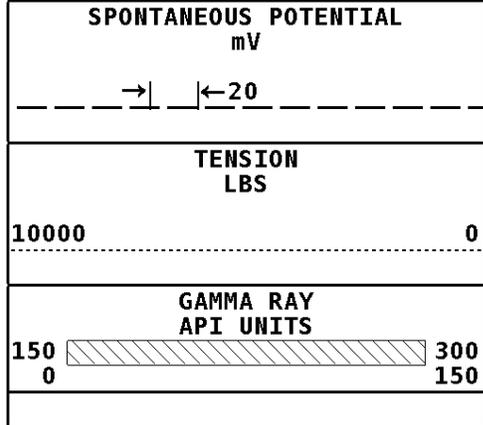
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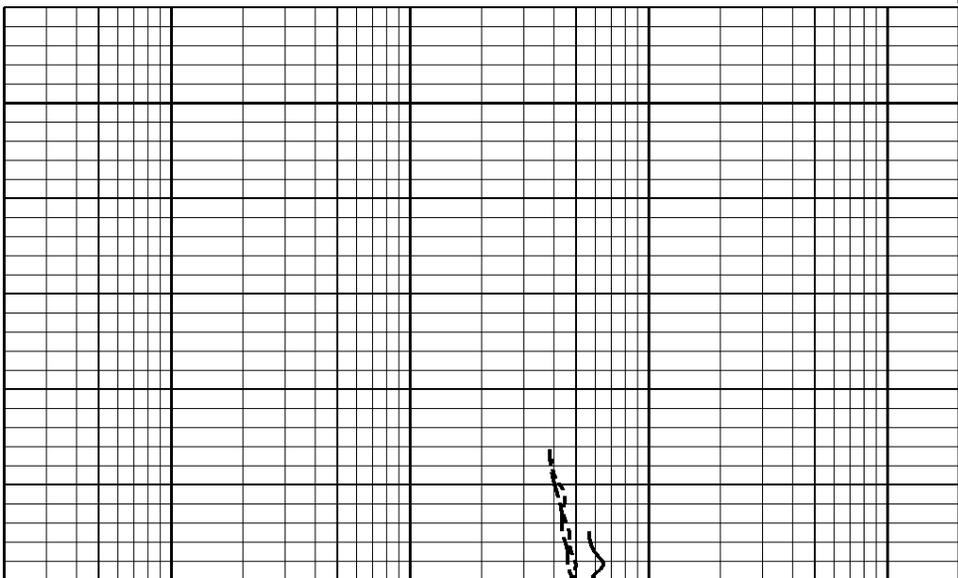
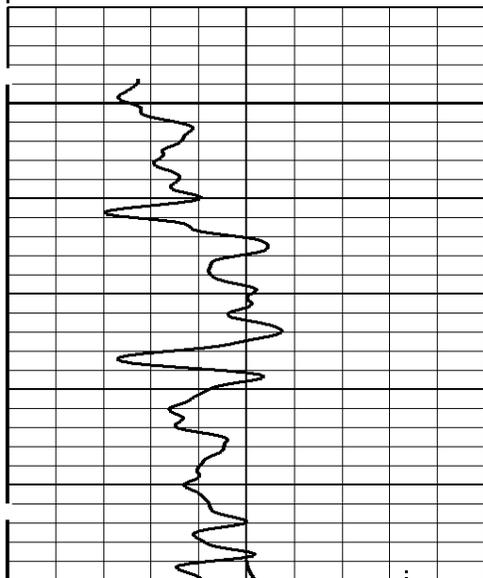
*** Borehole Zone Factors ***

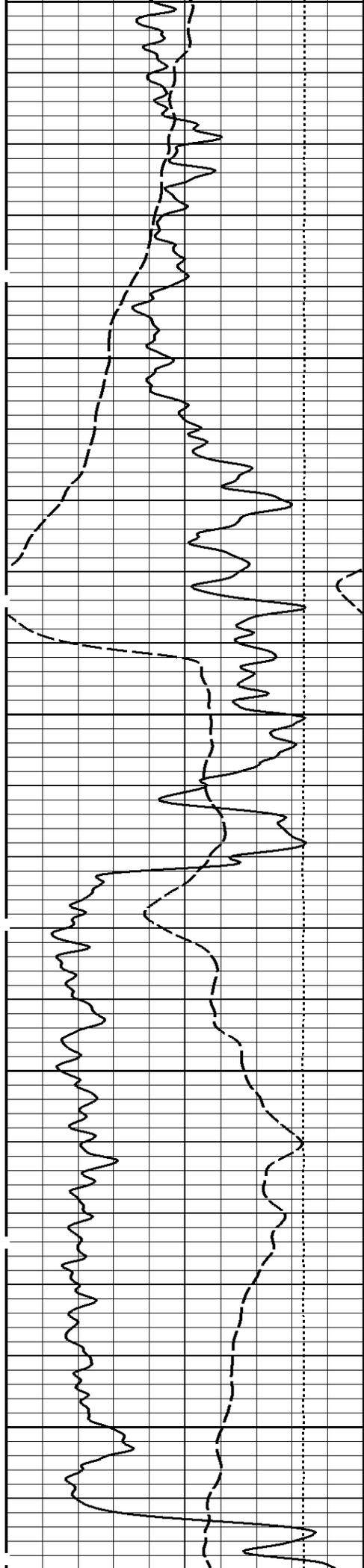
Zone 1 99999.0 to 0.0 Feet	
Drill Bit Size	7.875 in
Casing Diameter	5.500 in
BHT Depth	3439.000 ft
Borehole Temperature	110.0 degF
Temperature Gradient	1.00 DFHF
Resistivity Of Mud	2.000 ohmm
Resistivity Of Mud Temperature	70.00 degF

Well File: VAL ENERGY ANDES 2-36 JUNE30 MSTK **Scale:** 1:240 **Format:** DIL-240
Segment: V1.D1.S3 Reprocess of repeat **Acquired:** 2019-06/30 18:56 3.4.1-13968
Reference: 0 **Processed:** 2019-06/30 20:10 3.4.1-13968



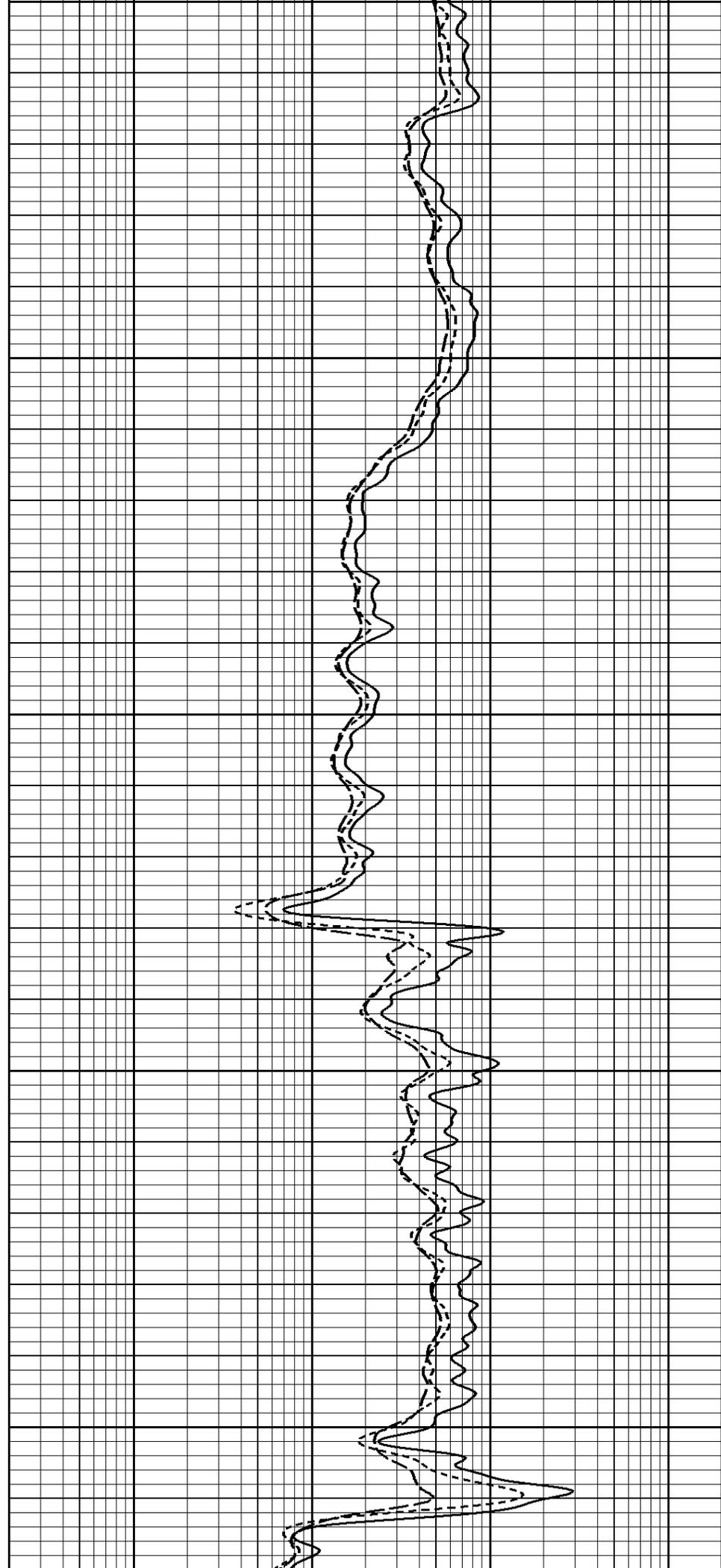
1:240 REPEAT SECTION

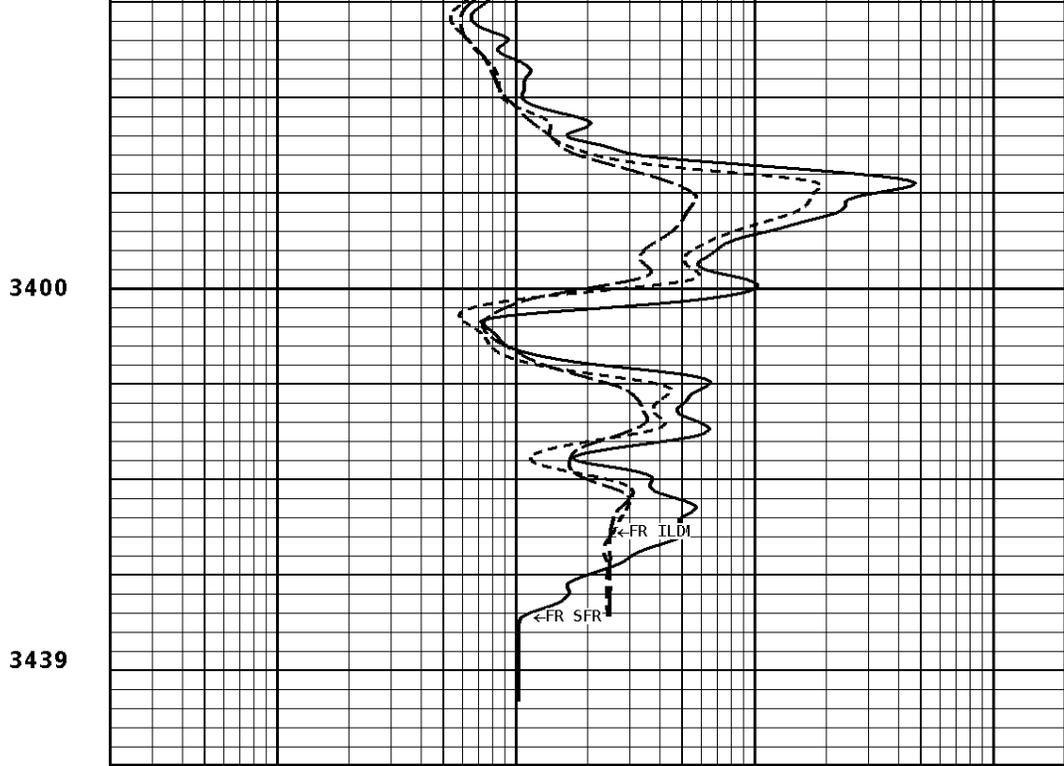
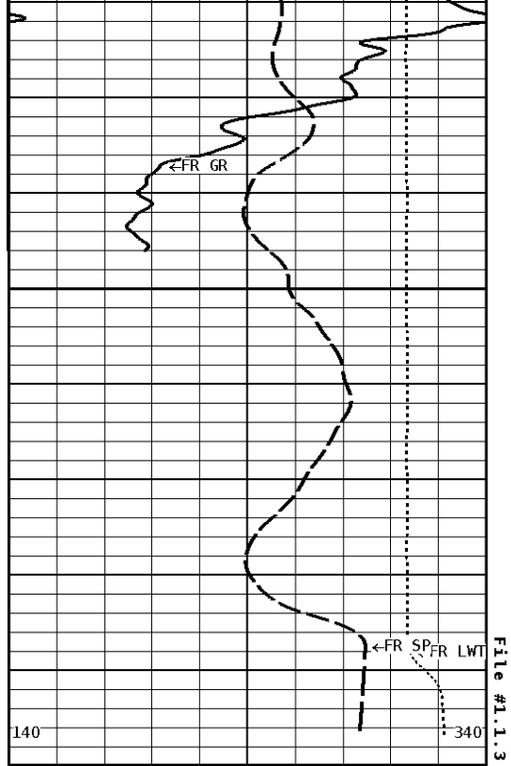




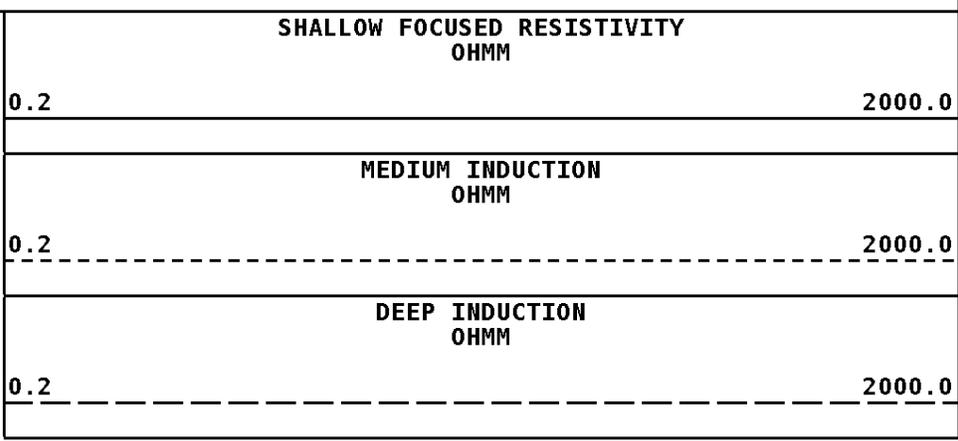
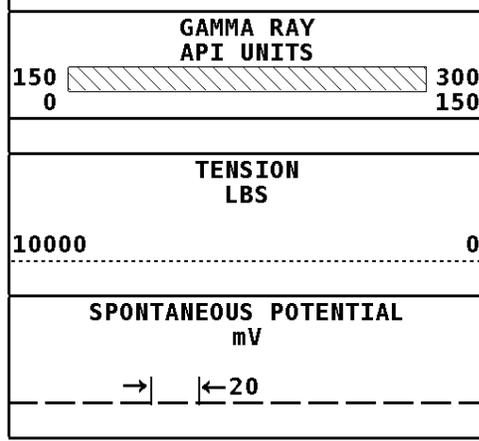
3200

3300





1:240 REPEAT SECTION



*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	7.875	in
Casing Diameter	5.500	in
BHT Depth	3439.000	ft
Borehole Temperature	110.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	2.000	ohmm
Resistivity Of Mud Temperature	70.00	degF

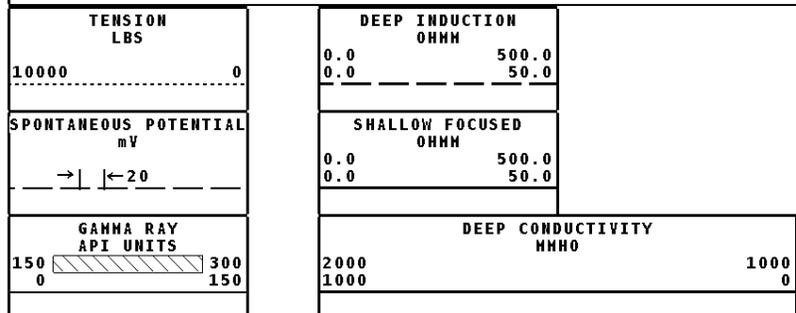
*** Calibration Summary ***

Shop Calibration GRT-B					
Performed : 16-May-2019			Time : 10:26		
Sensor Suite : GR-GR5			ID : GRT-BA-14		
	Measured	Units	Calibrated	Units	
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	64	323	160		

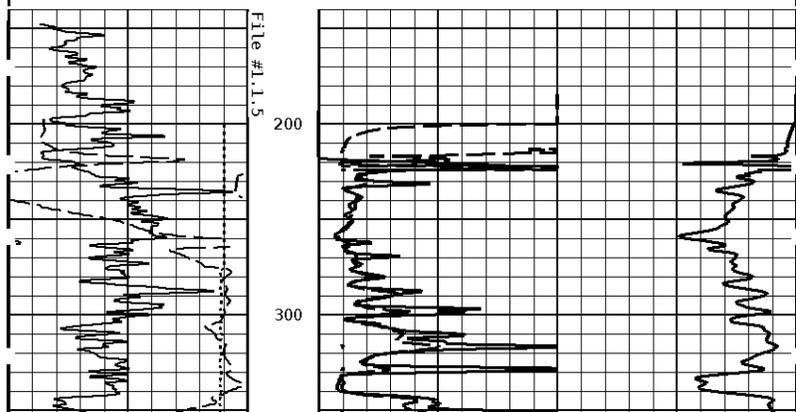
Shop Calibration PIT-CA					
Performed : 10-May-2019			Time : 12:41		
Sensor Suite : P-IND-T			ID : PIT-CA-069		

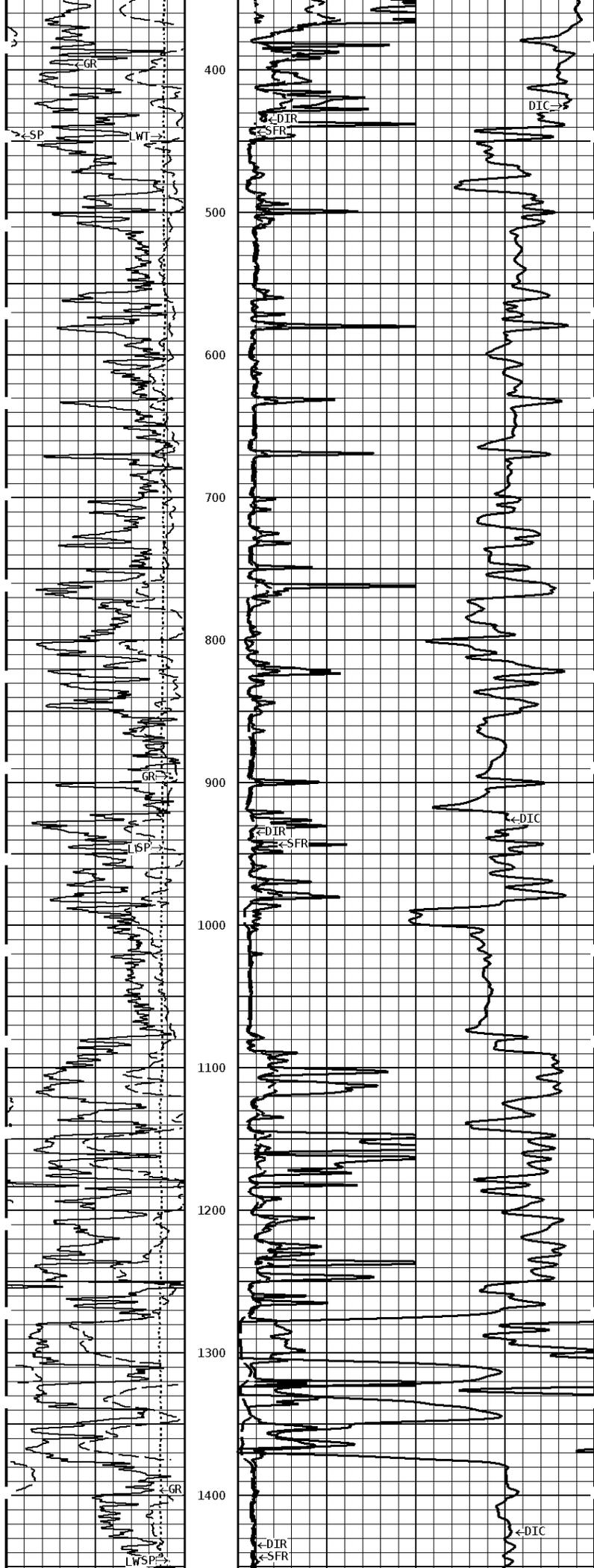
		Measured		Calibrated		Units
		R	X	R	X	
Medium						
Air		130176	131174	0.1	0.0	MMHOS
Zero		131068	131070	42.1	-8.1	MMHOS
Reference		249686	249128	5042.1	4991.9	MMHOS
Loop		130809	217169	3668.9	3615.4	MMHOS
Sonde Error				0.7	-8.2	MMHOS
Cond				5042.1	4991.9	MMHOS
Deep						
		Measured		Calibrated		Units
		R	X	R	X	
Air		128272	132045	-0.0	-0.1	MMHOS
Zero		131066	131073	56.3	-22.1	MMHOS
Reference		235111	234256	2056.3	1977.9	MMHOS
Loop		129176	221230	1746.0	1711.2	MMHOS
Sonde Error				-0.7	-5.8	MMHOS
Cond				2056.3	1977.9	MMHOS
Temperature						
		Measured		Calibrated		Units
		Low	High	Low	High	
		16980.0	56920.0	70.0	350.0	DEGF
Performed : 10-May-2019			Time : 12:32			
Sensor Suite : SFL			ID : PIT-CA-069			
Internal						
		Measured		Calibrated		Units
		Zero	Reference	Zero	Reference	
Im		32771.0	49574.9	0.0	7028.0	uA
Ib		32764.7	49879.2	0.0	1750.0	mA
MOM1		32784.7	59428.5	0.0	175.0	mV
Equivalent SFL					43.97	OHMM
Performed : 10-May-2019			Time : 12:29			
Sensor Suite : P-SP			ID : PIT-CA-069			
Internal						
		Measured		Calibrated		Units
		Zero	Reference	Zero	Reference	
		32795.0	58829.0	0.0	1000.0	mV

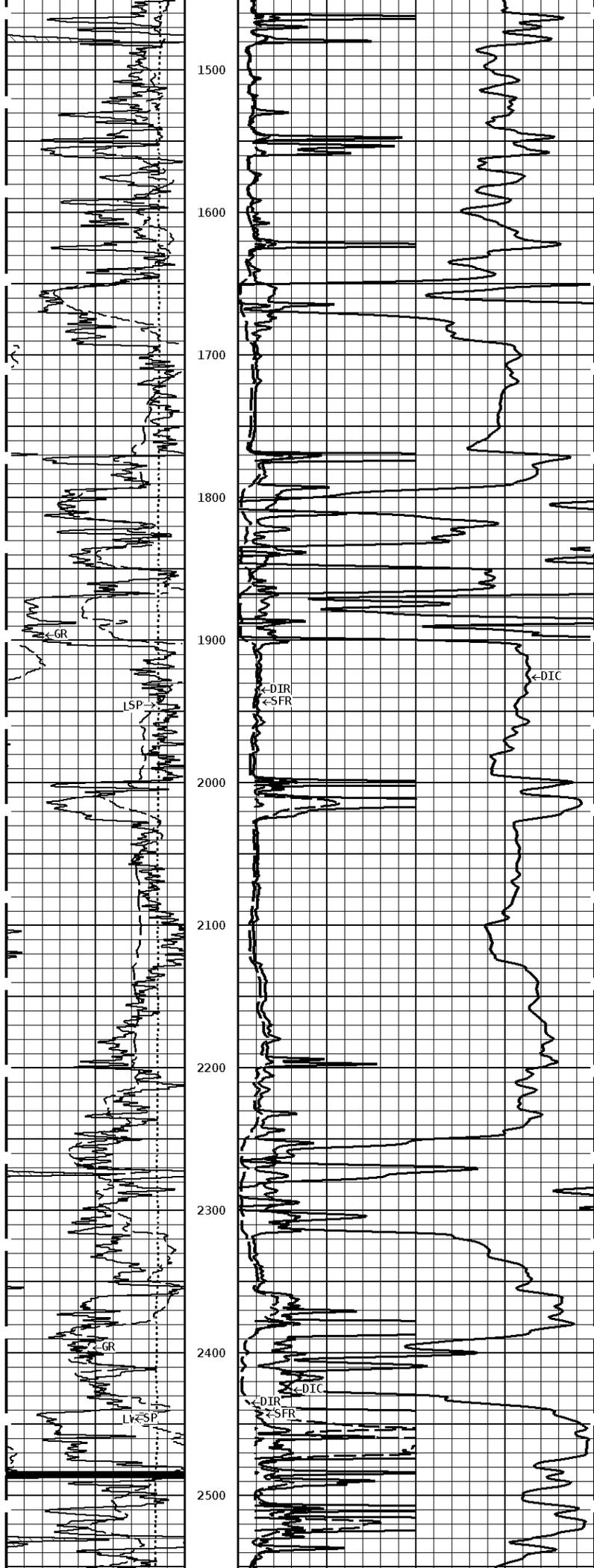
Well File: VAL ENERGY ANDES 2-36 JUNE30 MSTK Scale: 1:1200 Format: DIL1200
 Segment: V1.D1.S5 Reprocess of MAIN Acquired: 2019-06/30 19:09 3.4.1-13968
 Reference: 0 Processed: 2019-06/30 20:09 3.4.1-13968

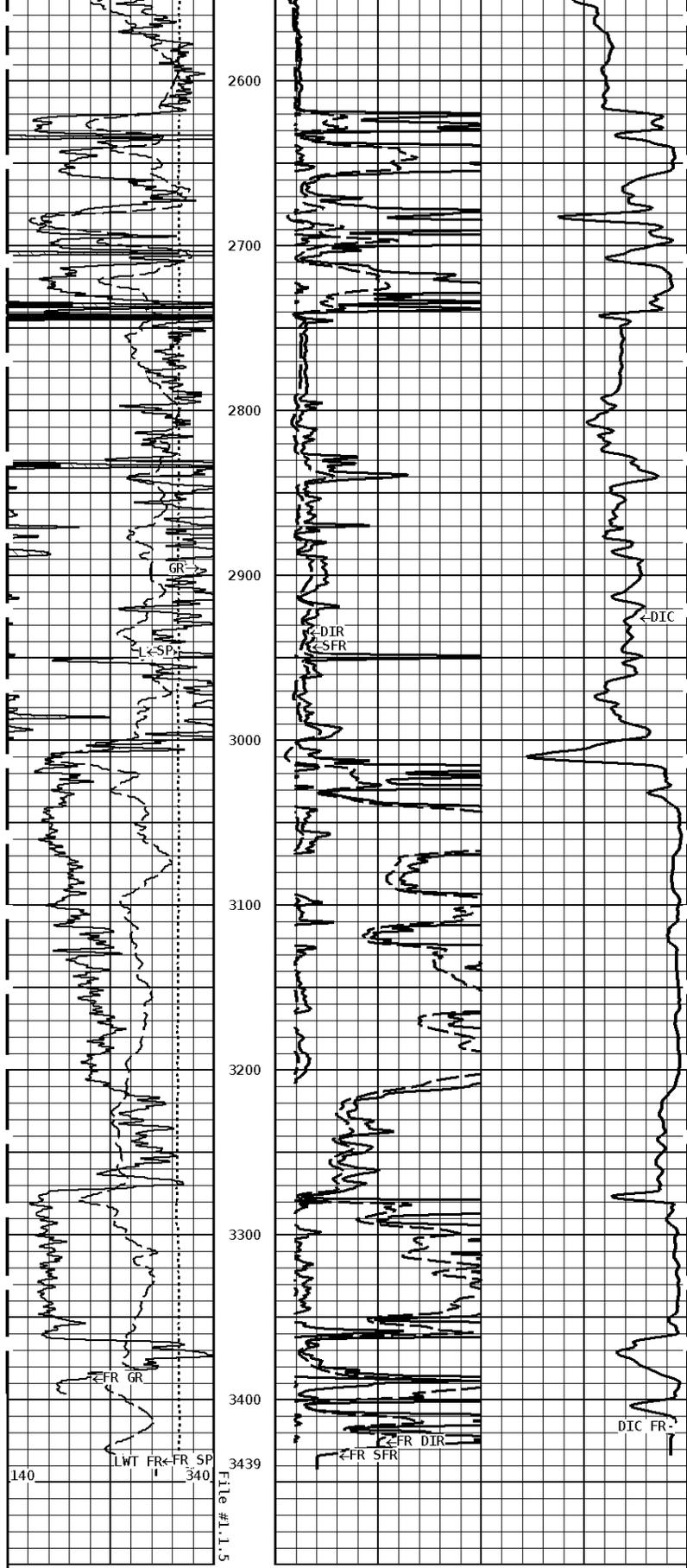


1:1200 MAIN SECTION

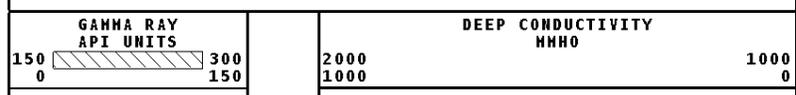








1:1200 MAIN SECTION



→		←	20
TENSION LBS			
10000			0

0.0	500.0
0.0	50.0
DEEP INDUCTION OHMM	
0.0	500.0
0.0	50.0



Company: VAL ENERGY, INC.
 Well: ANDES #2-36
 Location: 1650' FSL & 1980' FEL
 Logged: 06-30-2019
 K.B. Elev: 1223.0 Ft