

JAMSTEC

C0020A

C0020

Aomori

Country: Japan

<p>Gamma Ray GR plot 1:200</p>			
<p>LOCATION</p>			
<p>Shimokita--oki X = 600698.8 M Y = 4559060.5 M</p>		<p>Elev.: K.B. 28.50 m G.L. -1180.00 m D.F. 28.50 m</p>	
<p>Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____</p>		<p>MSL _____ Drilling Floor _____ Drilling Floor _____</p>	
<p>Elev.: 0.00 m</p>		<p>28.50 m above Perm. Datum</p>	
<p>Pref. Aomori</p>	<p>Max. Well Deviation 1.22 deg</p>	<p>Longitude 142° 12.0328' E</p>	<p>Latitude 41° 10.5983' N</p>

[illegible]

Logging Date	9-Sep-2012					
Run Number	1					
Depth Driller	3674.5 m					
Schlumberger Depth	3672 m					
Bottom Log Interval	3672 m					
Top Log Interval	1691 m					
Casing Driller Size @ Depth	13.375 in @ 2461.5 m @					
Casing Schlumberger	2461 m					
Bit Size	10.625 in					
Type Fluid In Hole	KNPPmud					
Density	Viscosity		1.11 g/cm3		102 s	
Fluid Loss	PH		3.4 cm3		10.5	
Source Of Sample	Flowline					
RM @ Measured Temperature	0.082 ohm.m		@	25 degC		@
RMF @ Measured Temperature	0.073 ohm.m		@	23 degC		@
RMC @ Measured Temperature	0.095 ohm.m		@	26 degC		@
Source RMF	RMC		Press			
RM @ MRT	RMF @ MRT		0.055 @ 48		0.047	@ 48 @
Maximum Recorded Temperatures	48 degC		48		48	
Circulation Stopped	Time		9-Sep-2012		3:00	
Logger On Bottom	Time		10-Sep-2012		5:52	
Unit Number	Location		4803 JPOP			
Recorded By	Liu Jie/Montague					
Witnessed By	Mr. Yoshinori Sanada/Mr. Kyaw Moe					








[illegible]

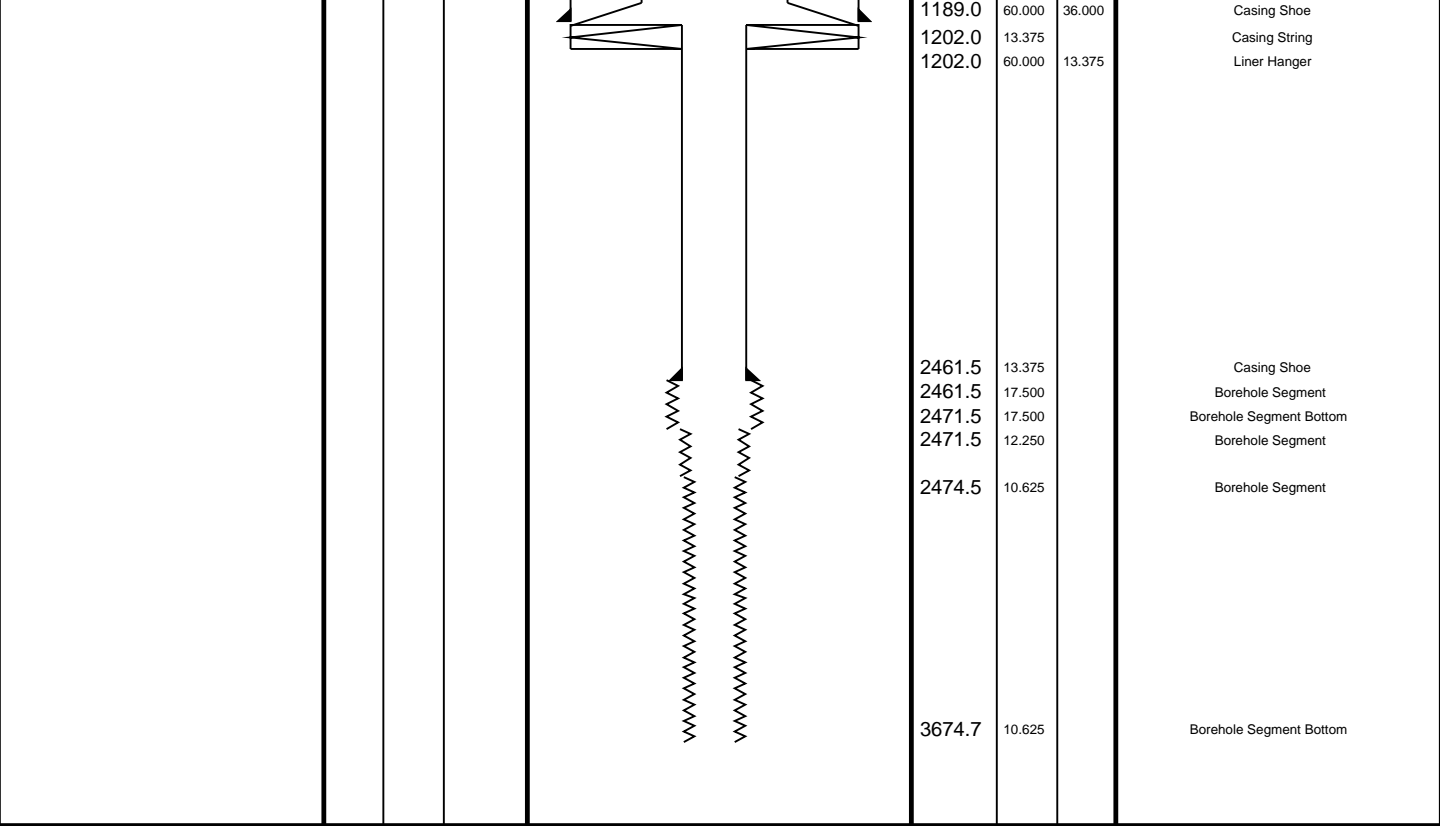
- Reduced activity flags count in Before Calibration summary.
- Caliper check in casing 12.5 in
- First run at TD seemed to drag and hang. Multiple attempts to push down
and then pulled main pass from deepest point reached.
- Repeat pass to cover 3210–3110 as requested.
- GR was logged to upper CSG which is 1691m.
- Wiper trip planned after CMR+ run and before MDT.
- ECRD run in place of mechanical weakponit for every run.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT	
GSR–U/Y	GSR–U
NCT–B	WITM (EDTS)–A
CNB–AB	
NCS–VB	

DOWNHOLE EQUIPMENT			
LEH–QT			23.89
LEH–QT			
AH–369	MDSB_EDTC		23.01
EDTC–B	Mud Tempe	—	22.57
EDTH–B 8466	CTEM	—	21.50
EDTC–B 8470	Gamma Ray	—	20.93
EDTG–A/B 77415	EFTB DIAG	—	0.5 IN
	TelStatus	—	Standoff
	EDTCB Ele	—	20.59
SPA–A			20.59
SPA–A 9933	SP SPARC	—	19.98
HNGS–BA			19.37
HNGS–BA 309	Upper_1	—	18.67
HNSH–BA 314	Lower_2	—	18.46
HNGC–B			16.87
HNGH–A 4058	HNGC Stat	—	16.34
HNGC–B 573			
HRLT–B			15.80
HRUH–B 857			2.0 IN
HRUC–B 857			Standoff
HRLS–B 855			2.0 IN
HRLH–B 872			Standoff
HRLC–B 866			
AH–270 873			
	High Res.	—	12.22
			2.0 IN

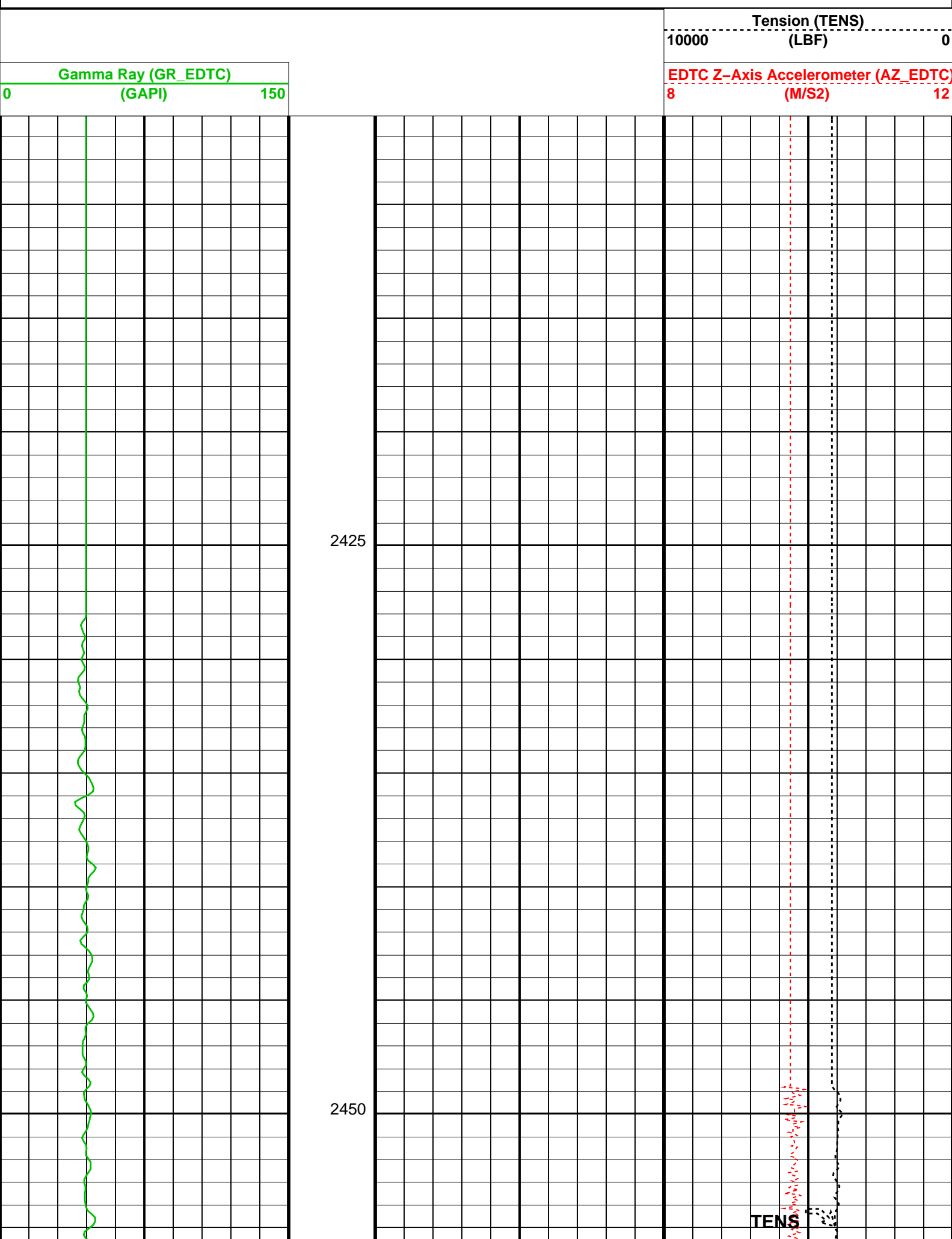


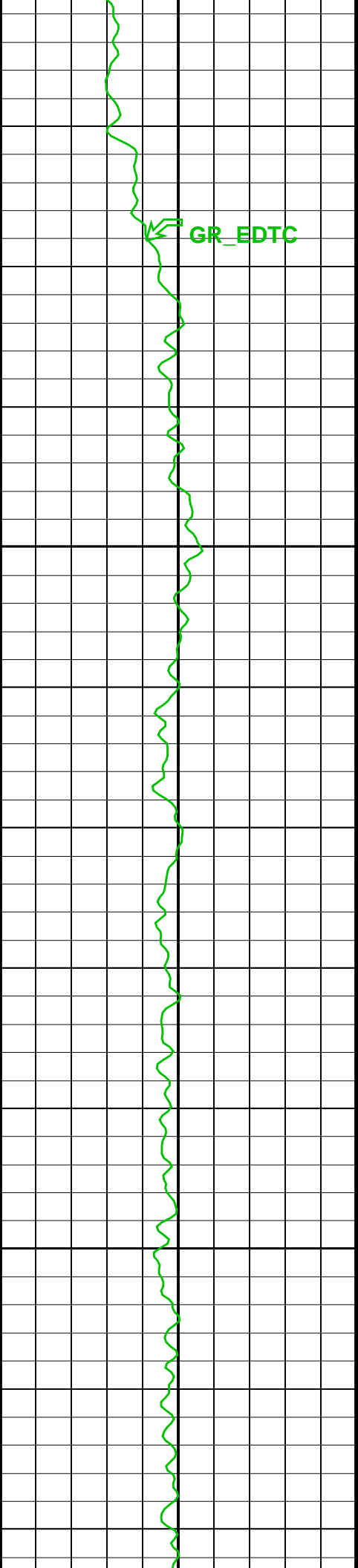
Main Log 1:200

MAXIS Field Log

Company: JAMSTEC Well: C0020A

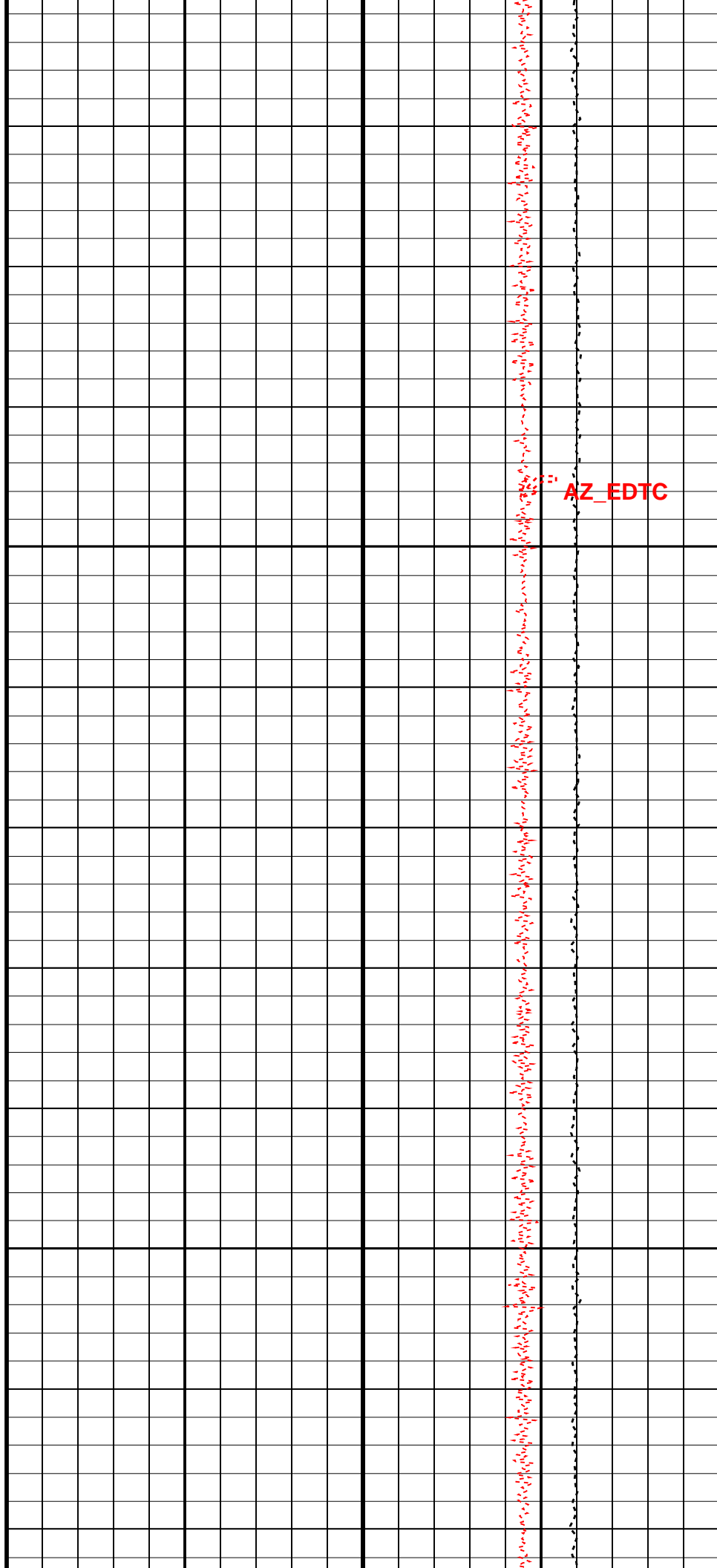
Input DLIS Files						
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Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_015PUP	FN:22	PRODUCER	10-Sep-2012 10:32	3673.6 M	2404.9 M
CLIENT	TLD_MCFL_CNL_HRLA_015PUC	FN:23	CUSTOMER	10-Sep-2012 10:32	3673.6 M	2404.9 M
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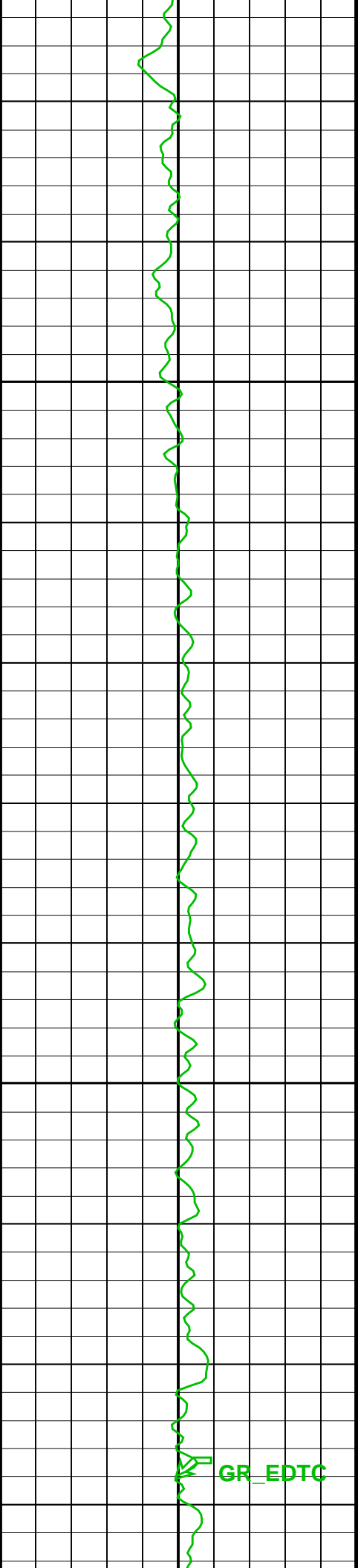




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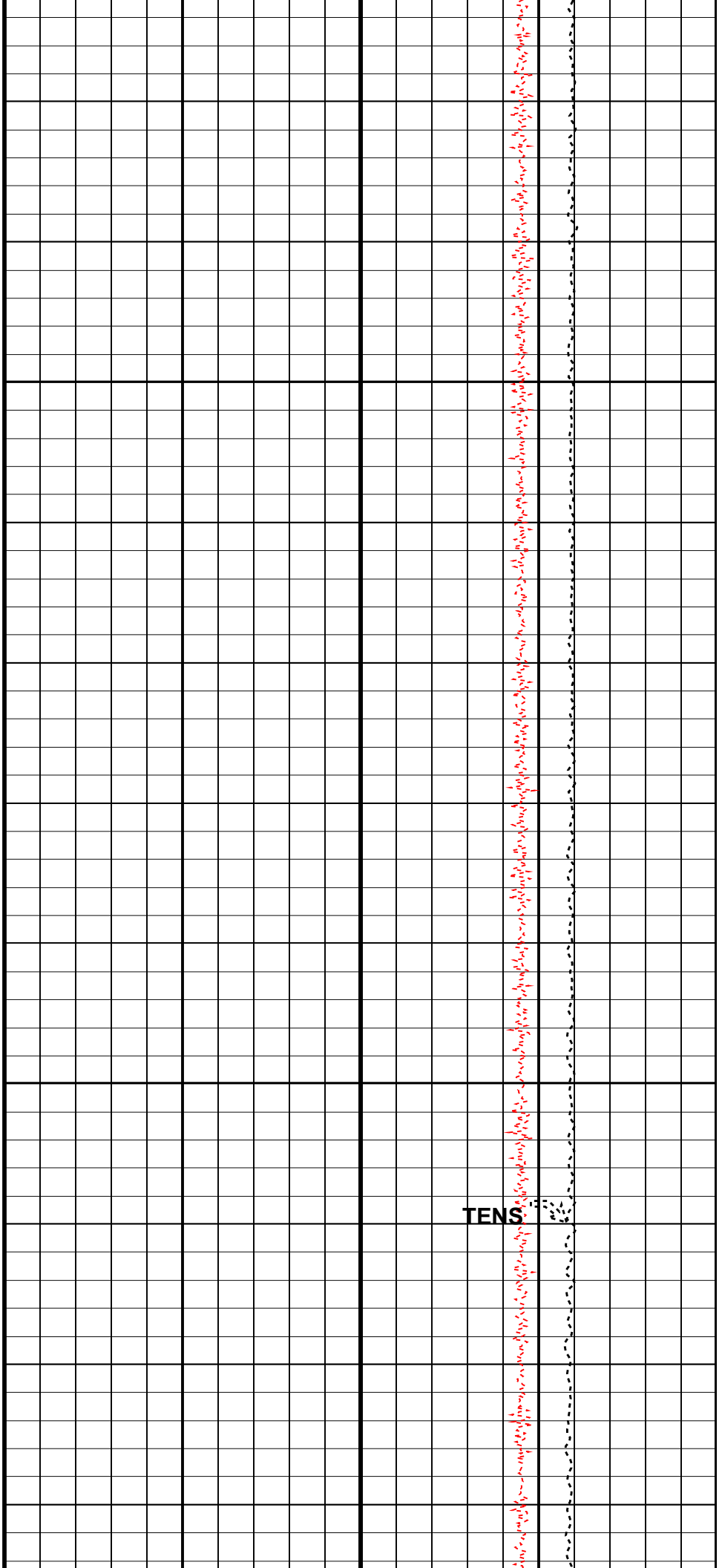




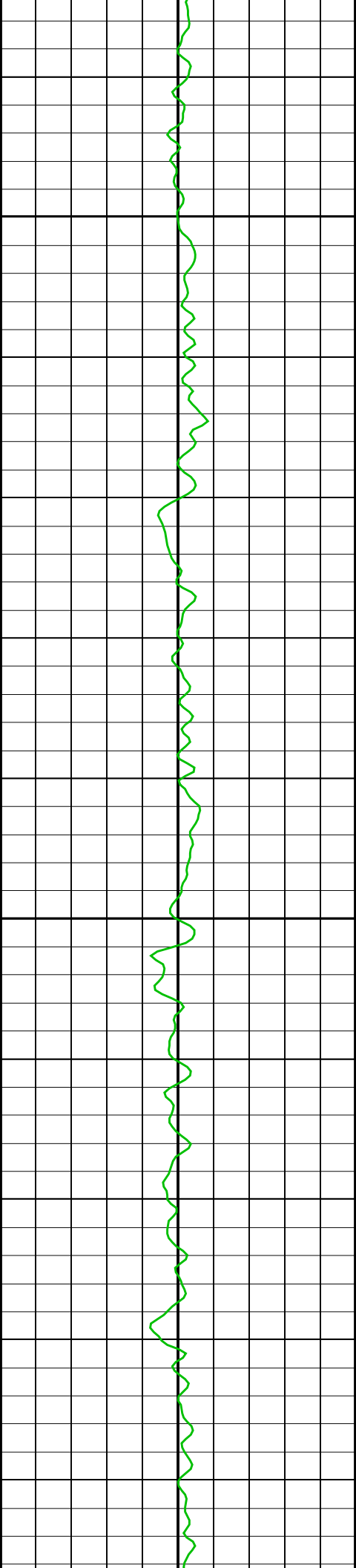
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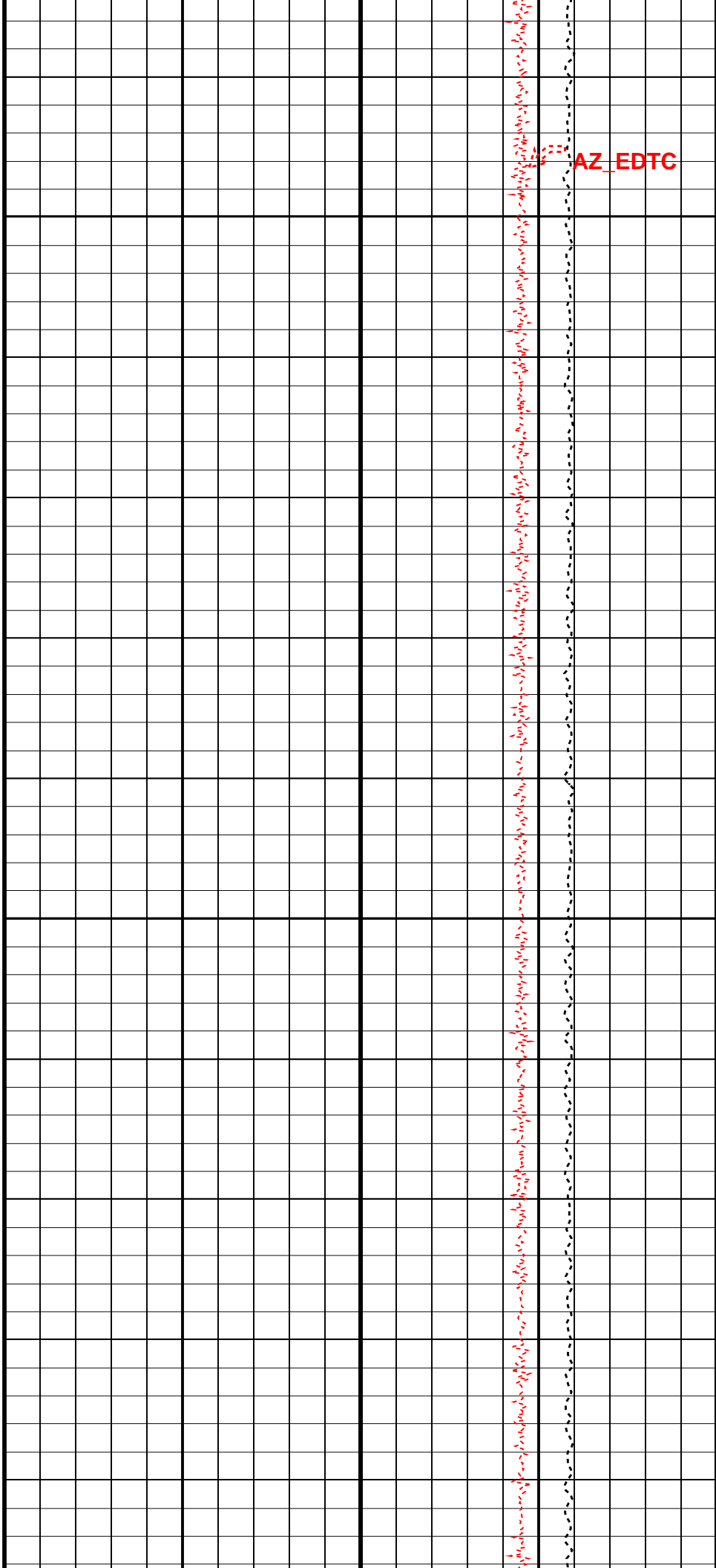


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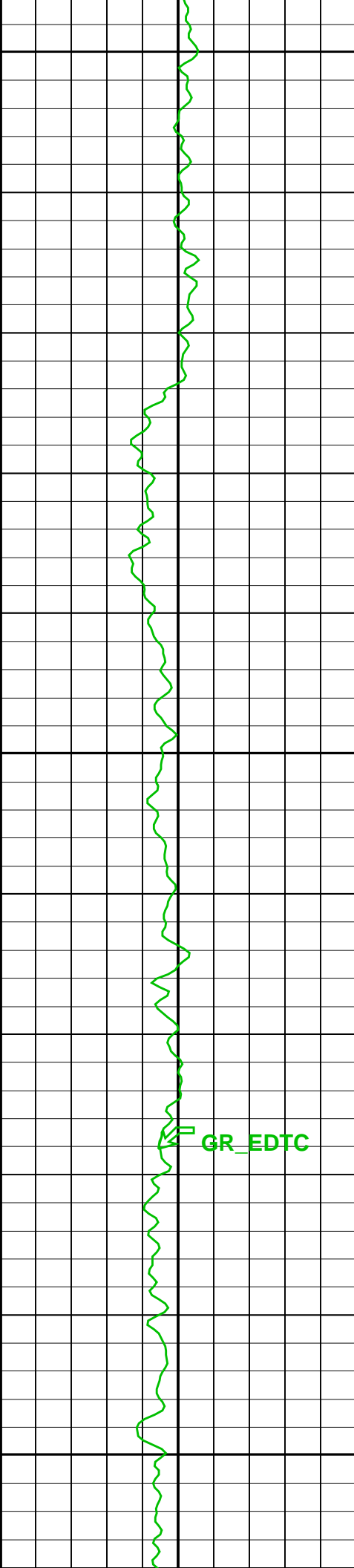


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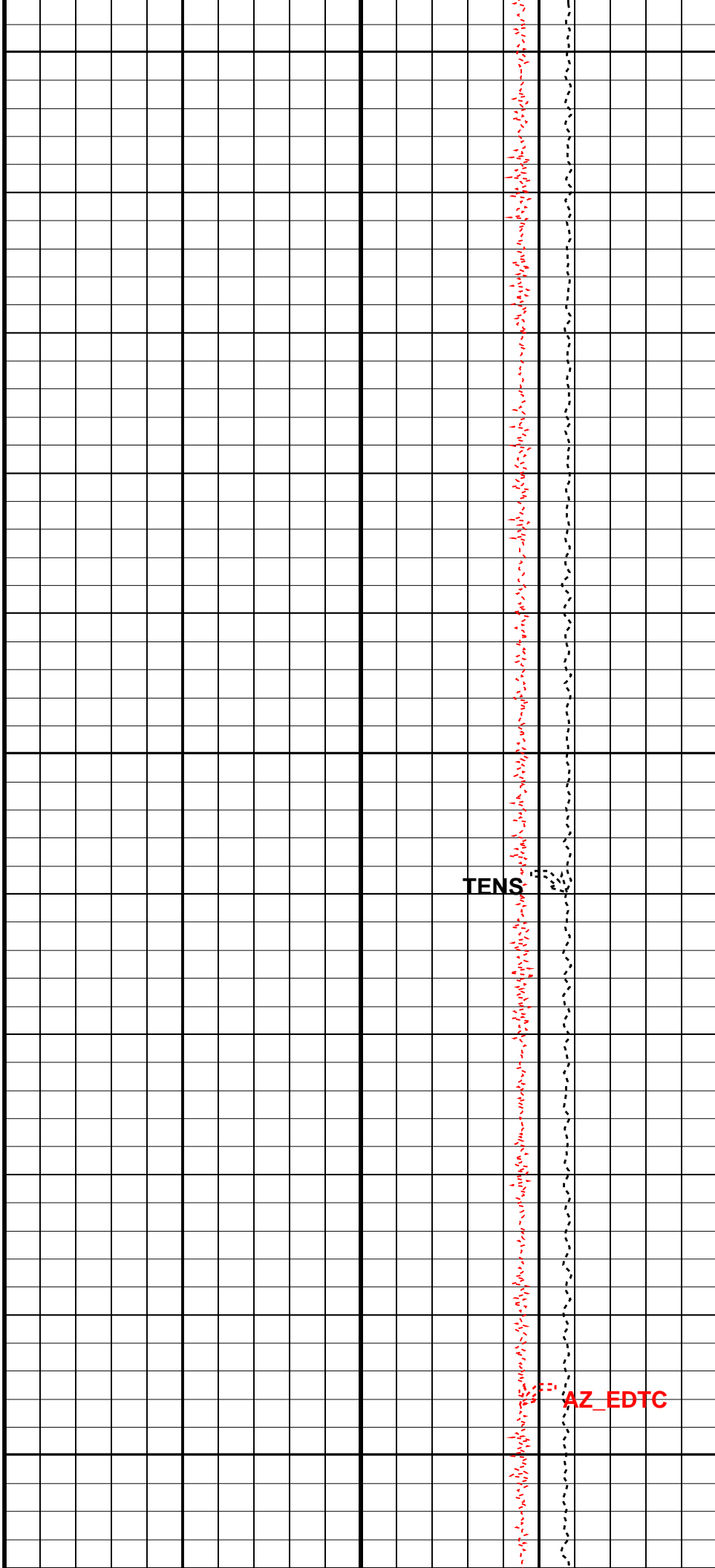


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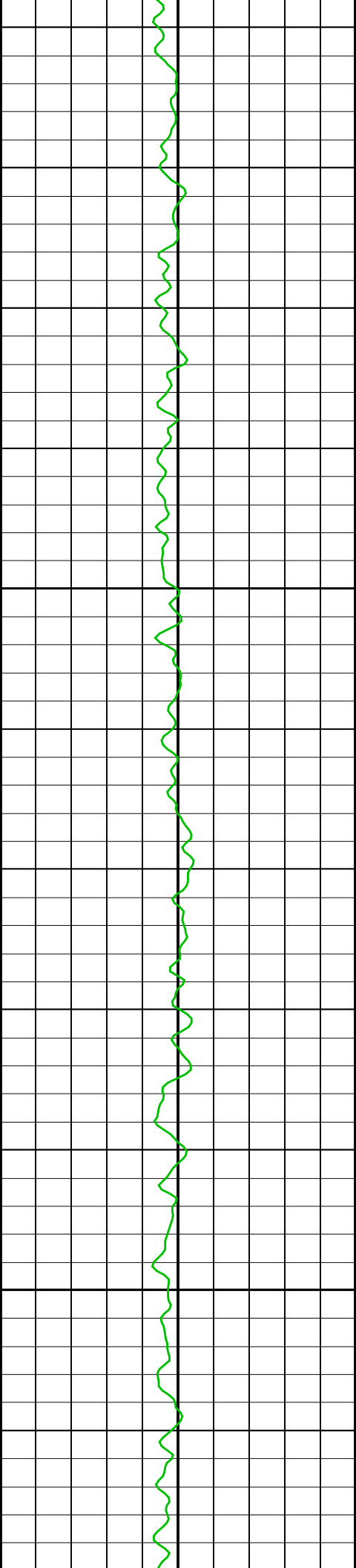
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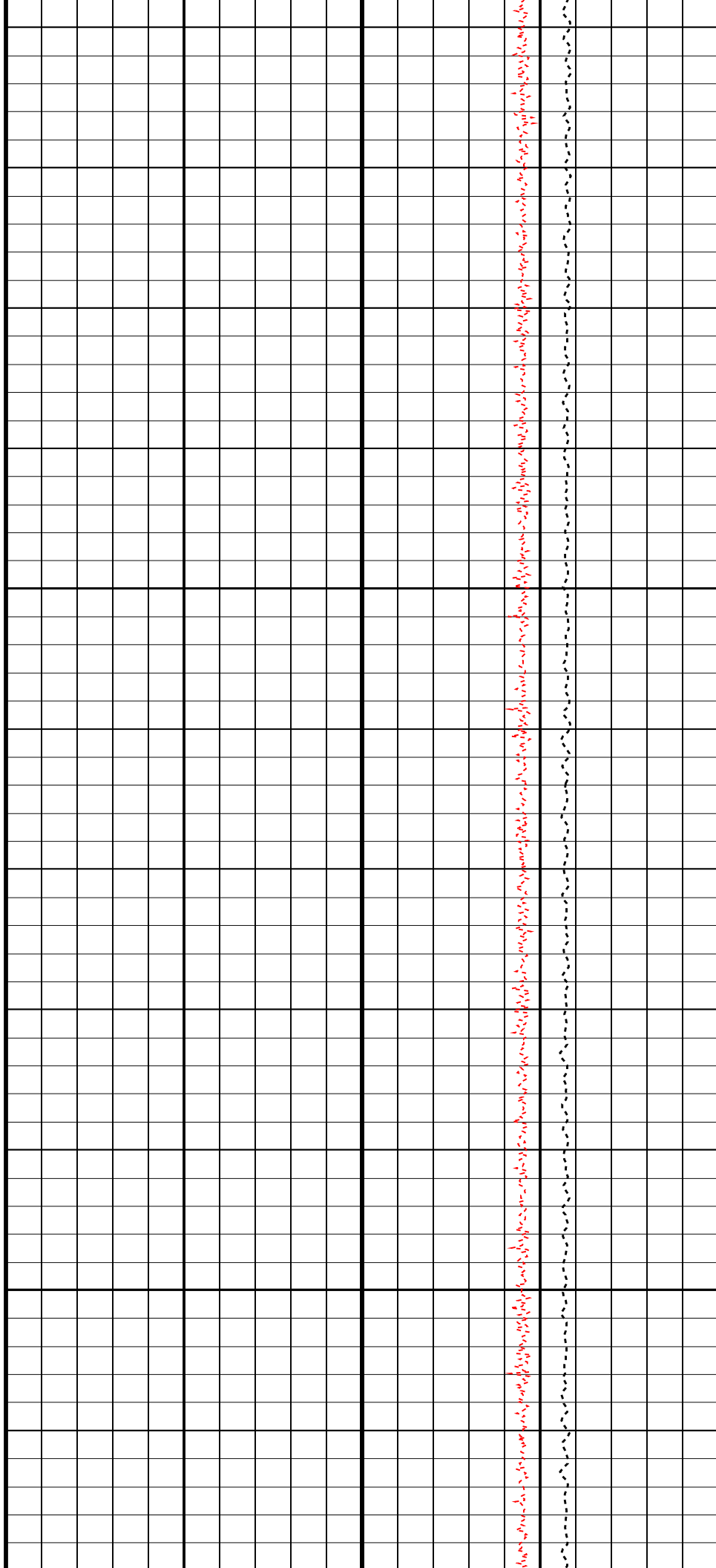
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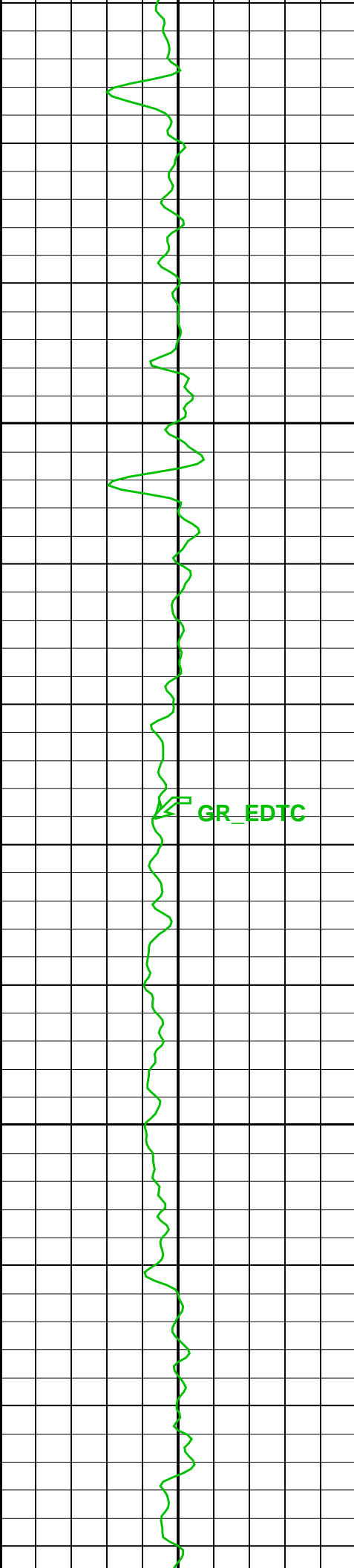
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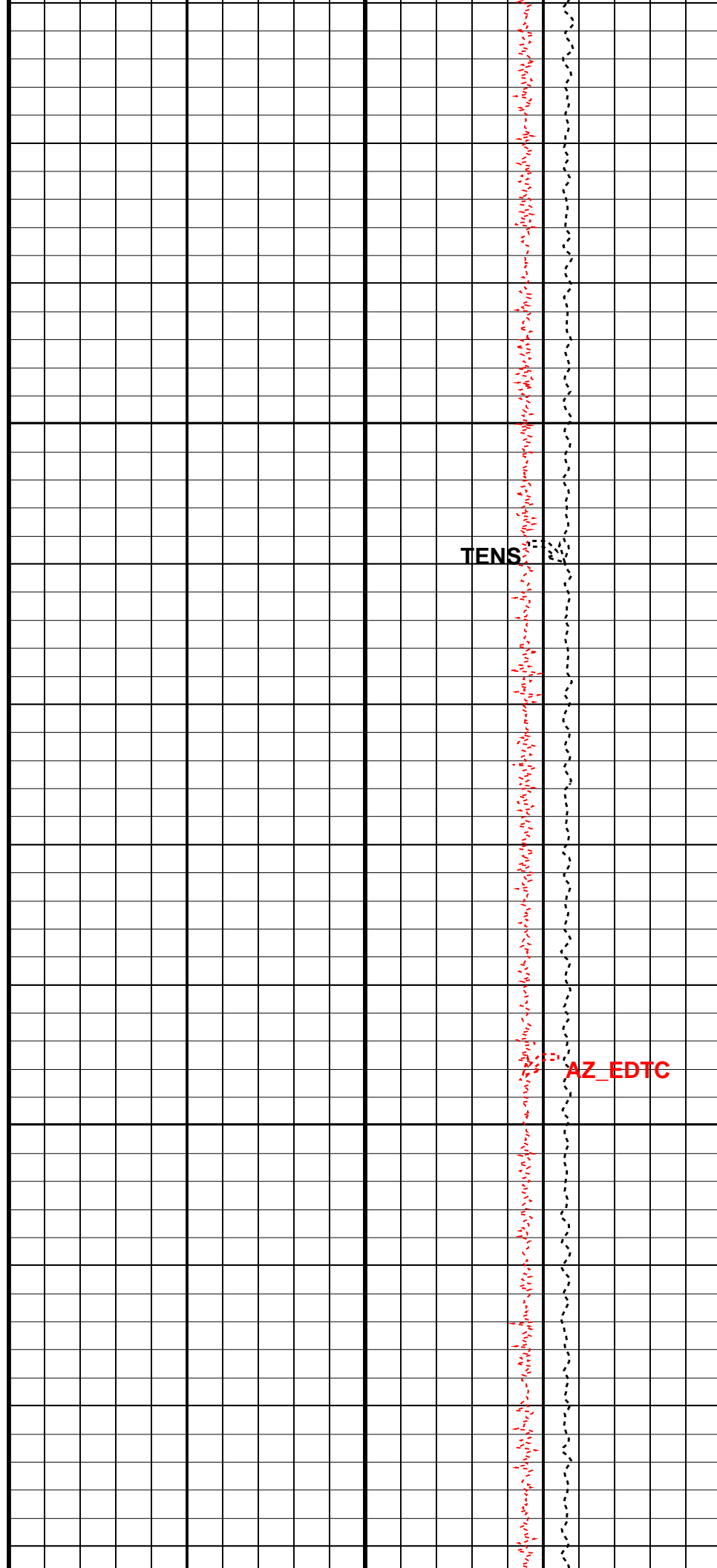
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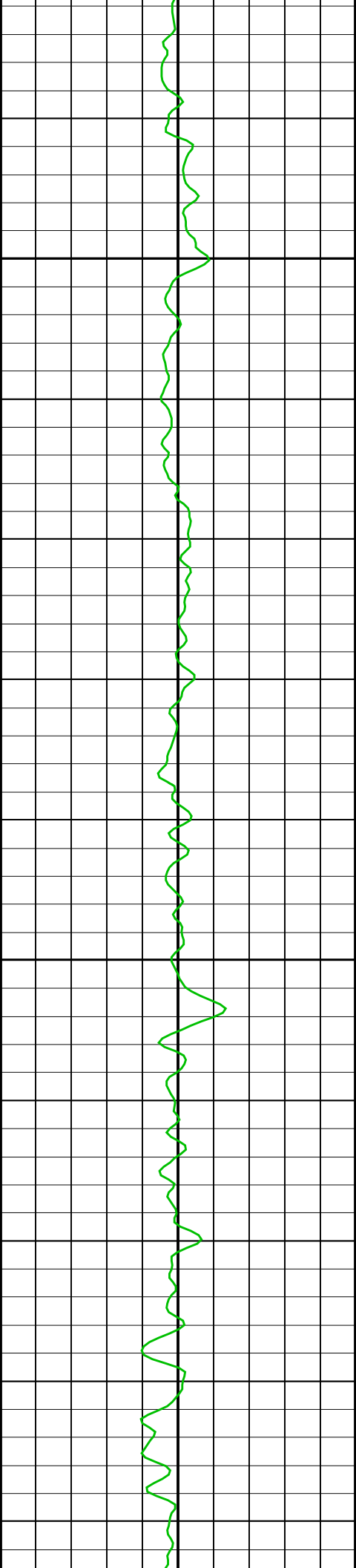




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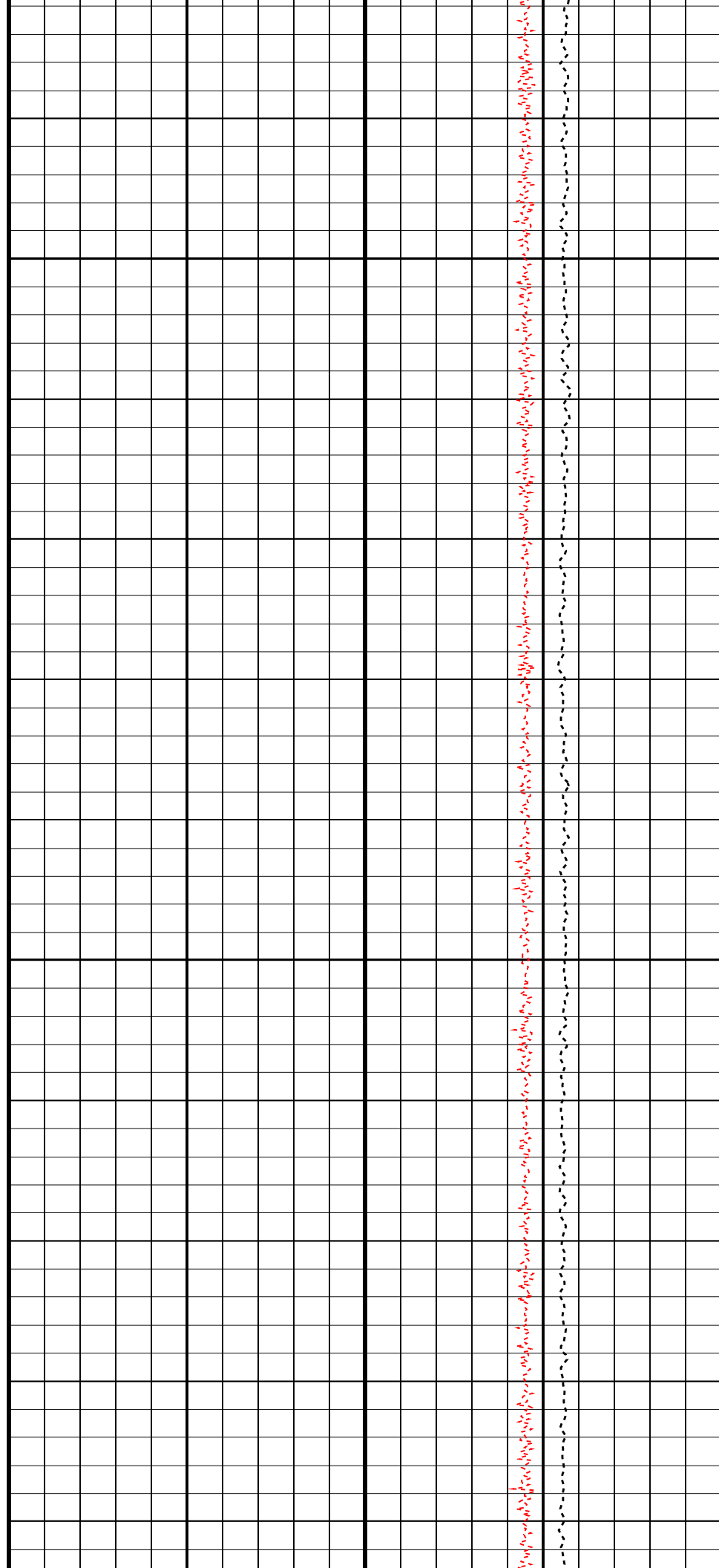
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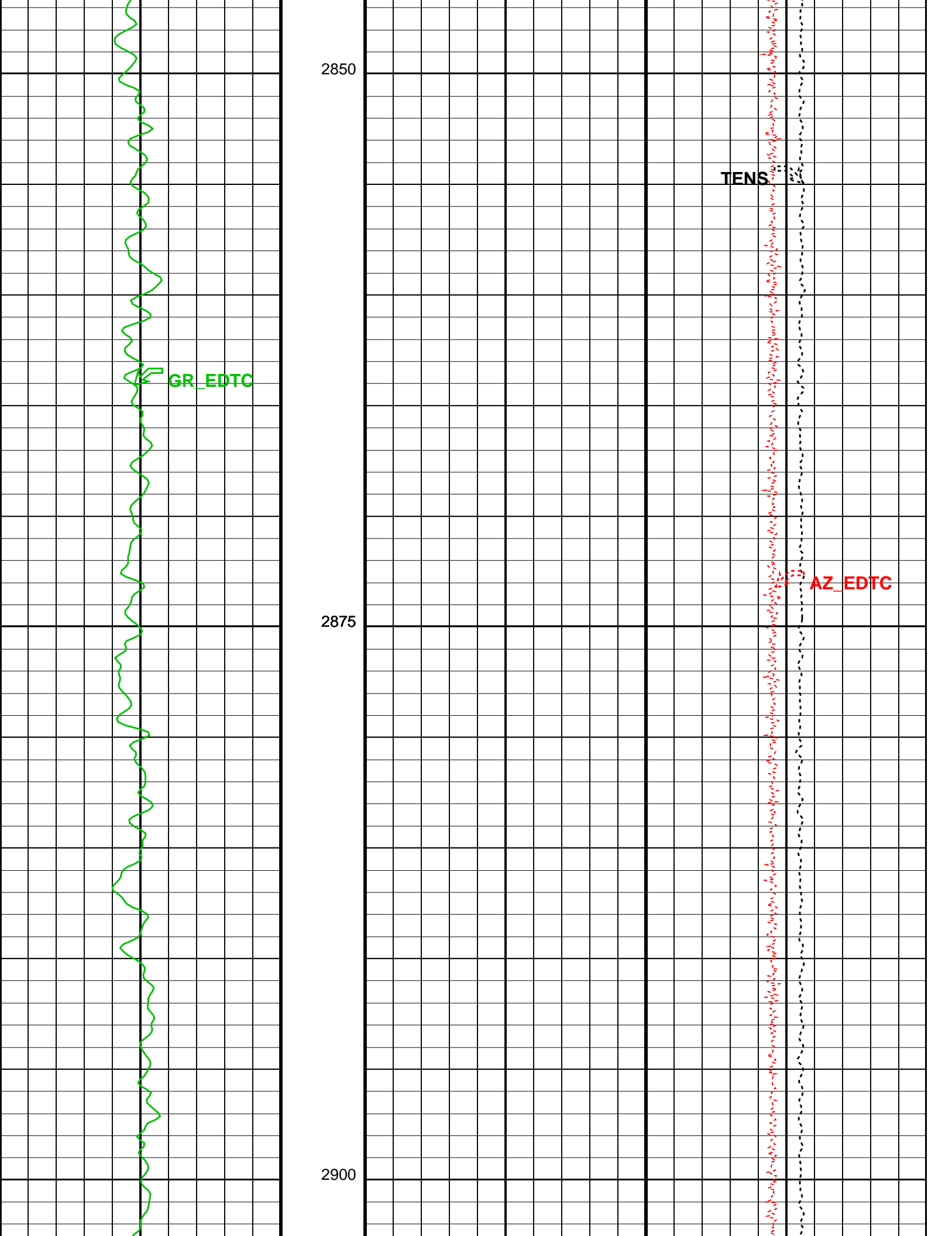


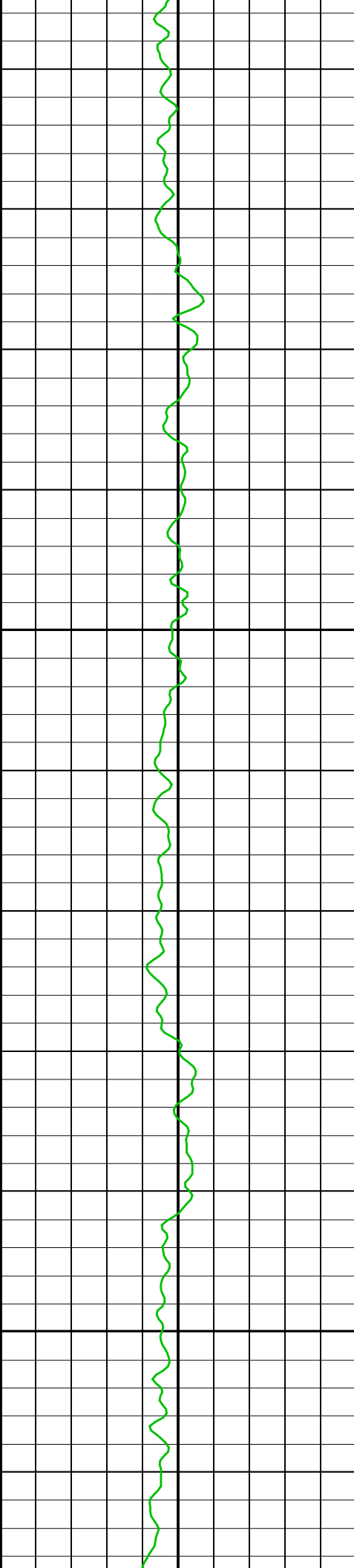


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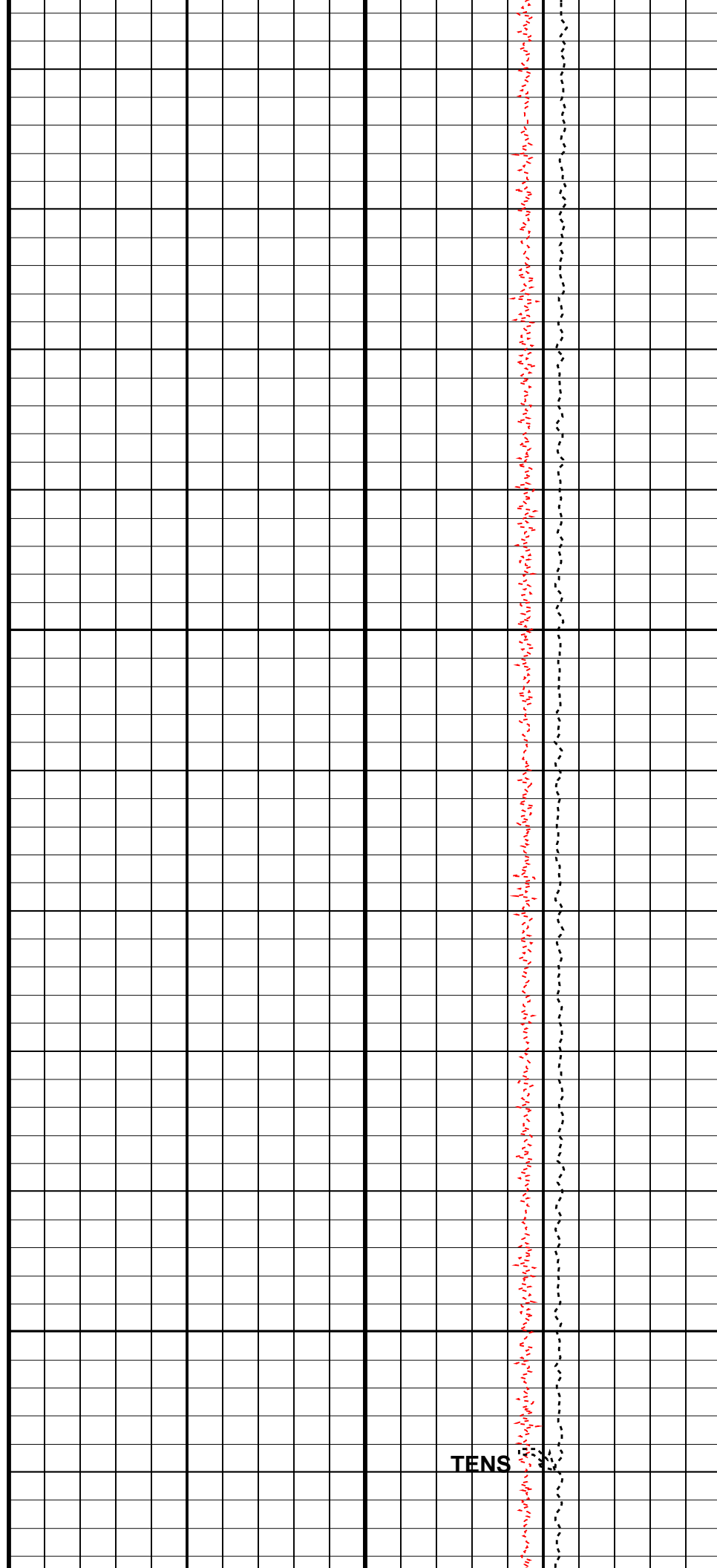




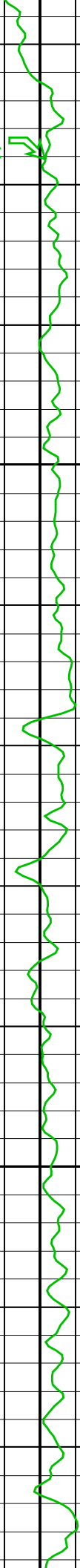
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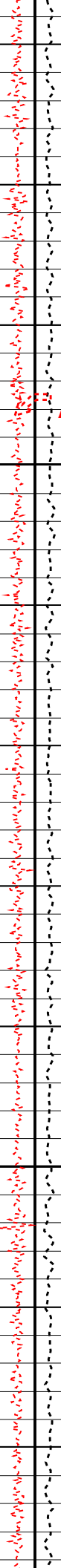
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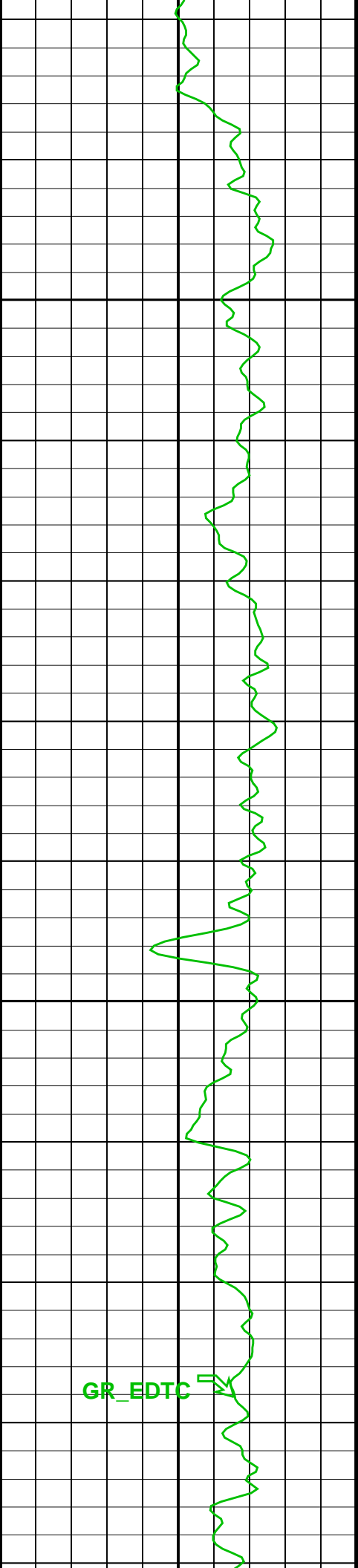


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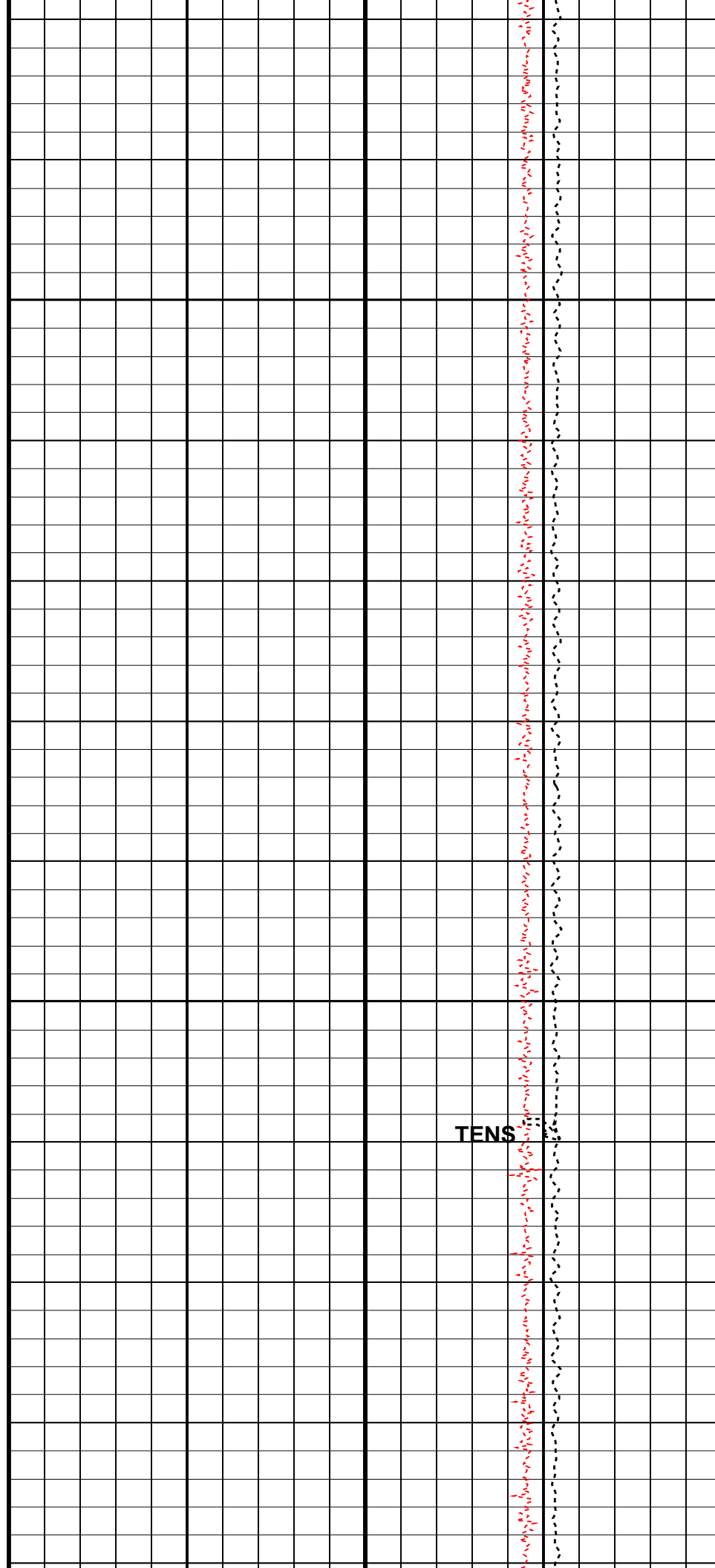


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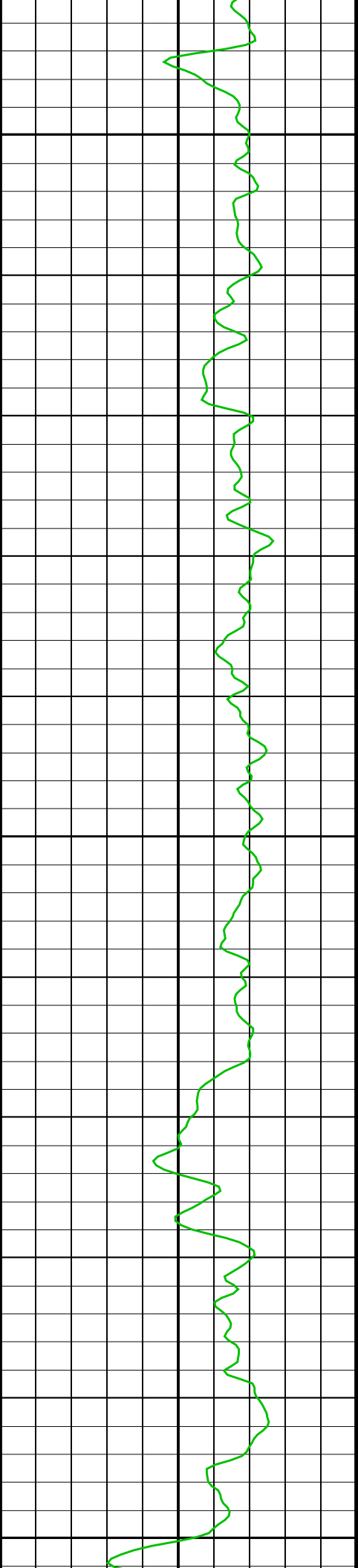


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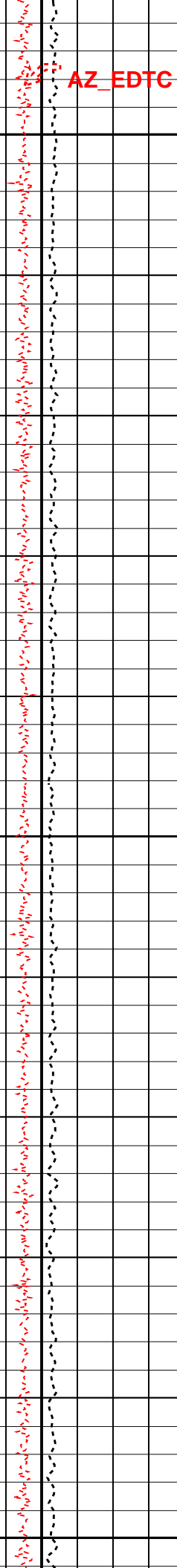
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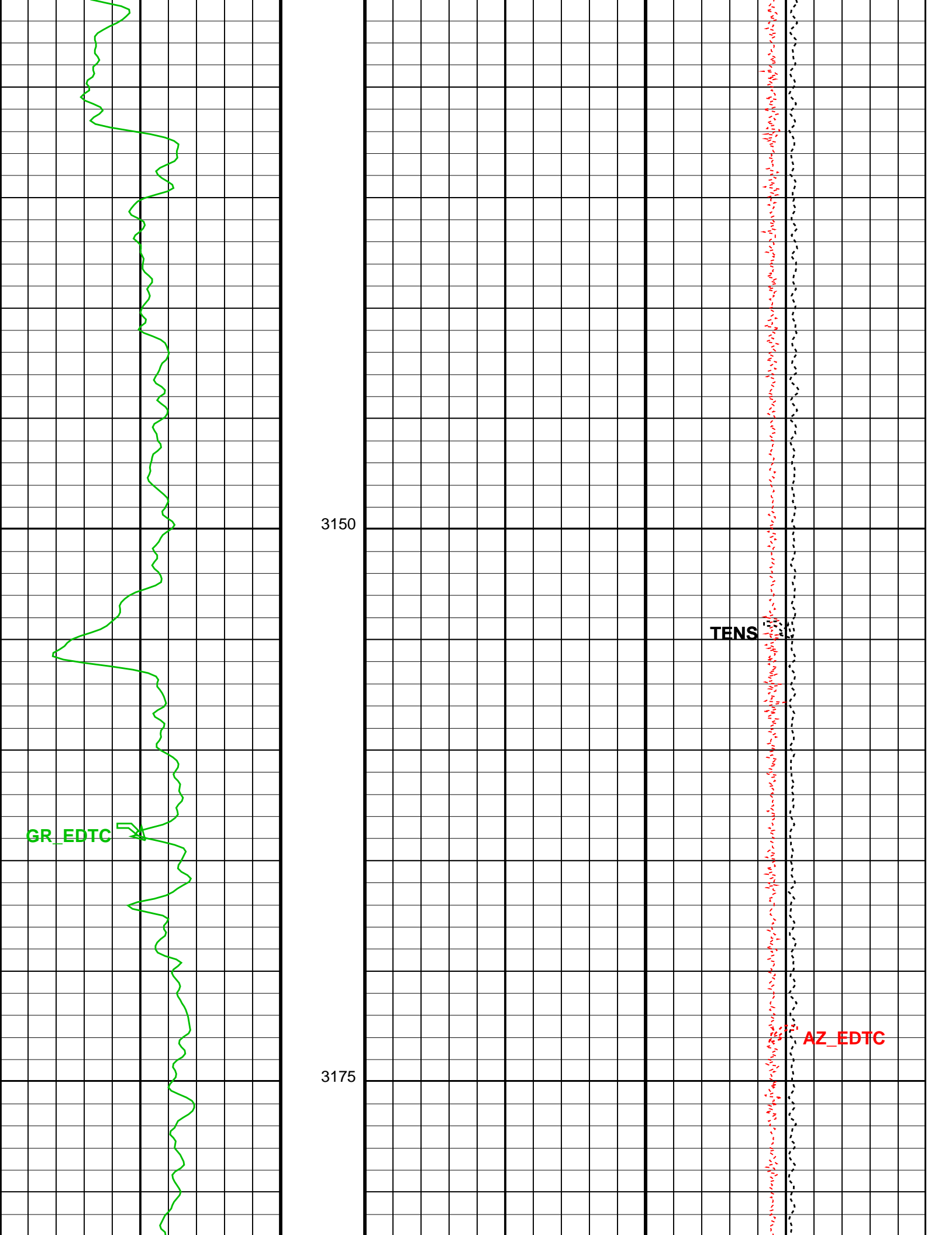
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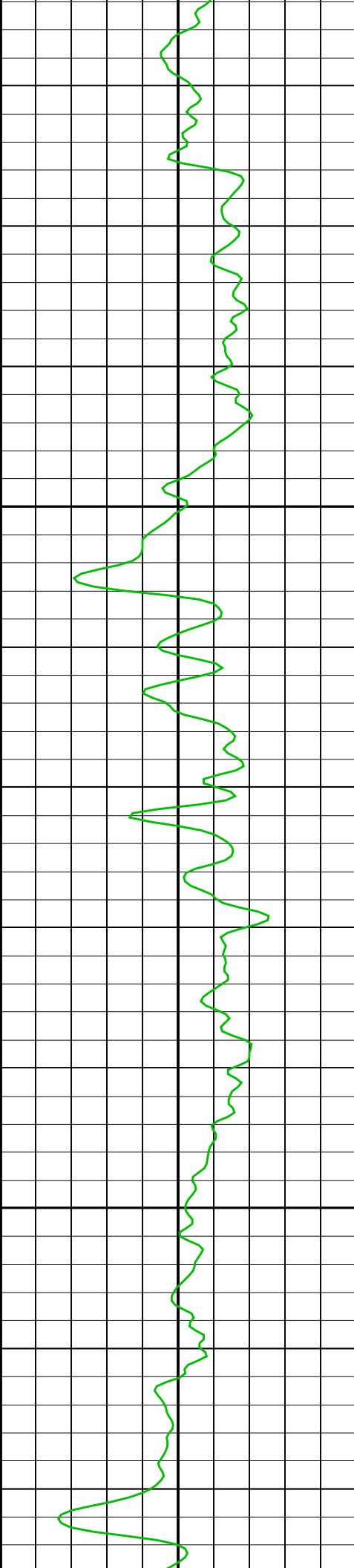
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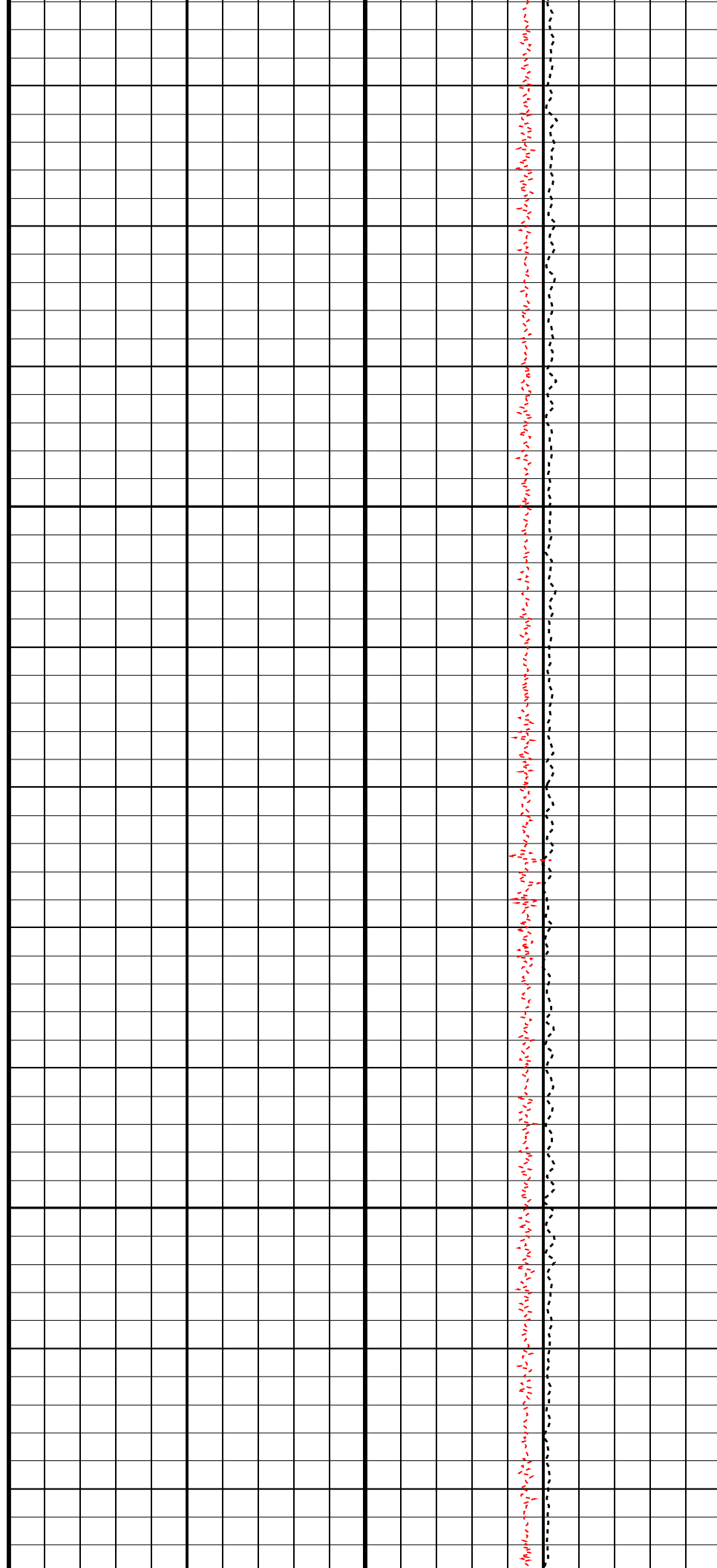
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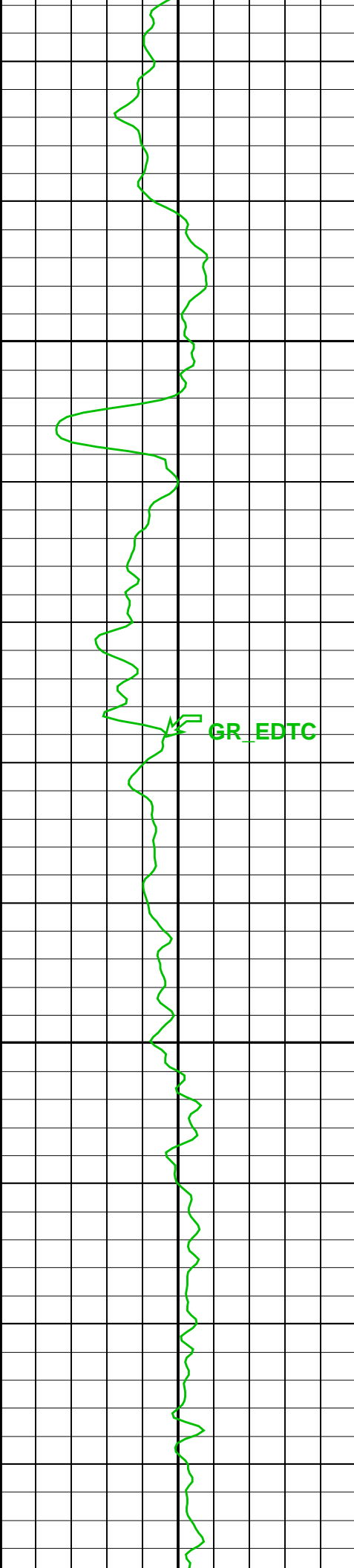




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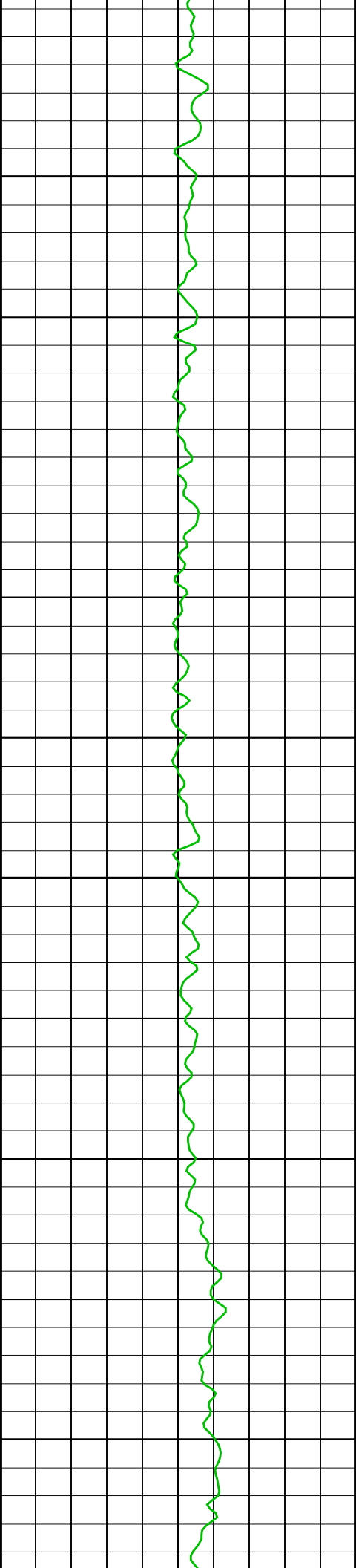


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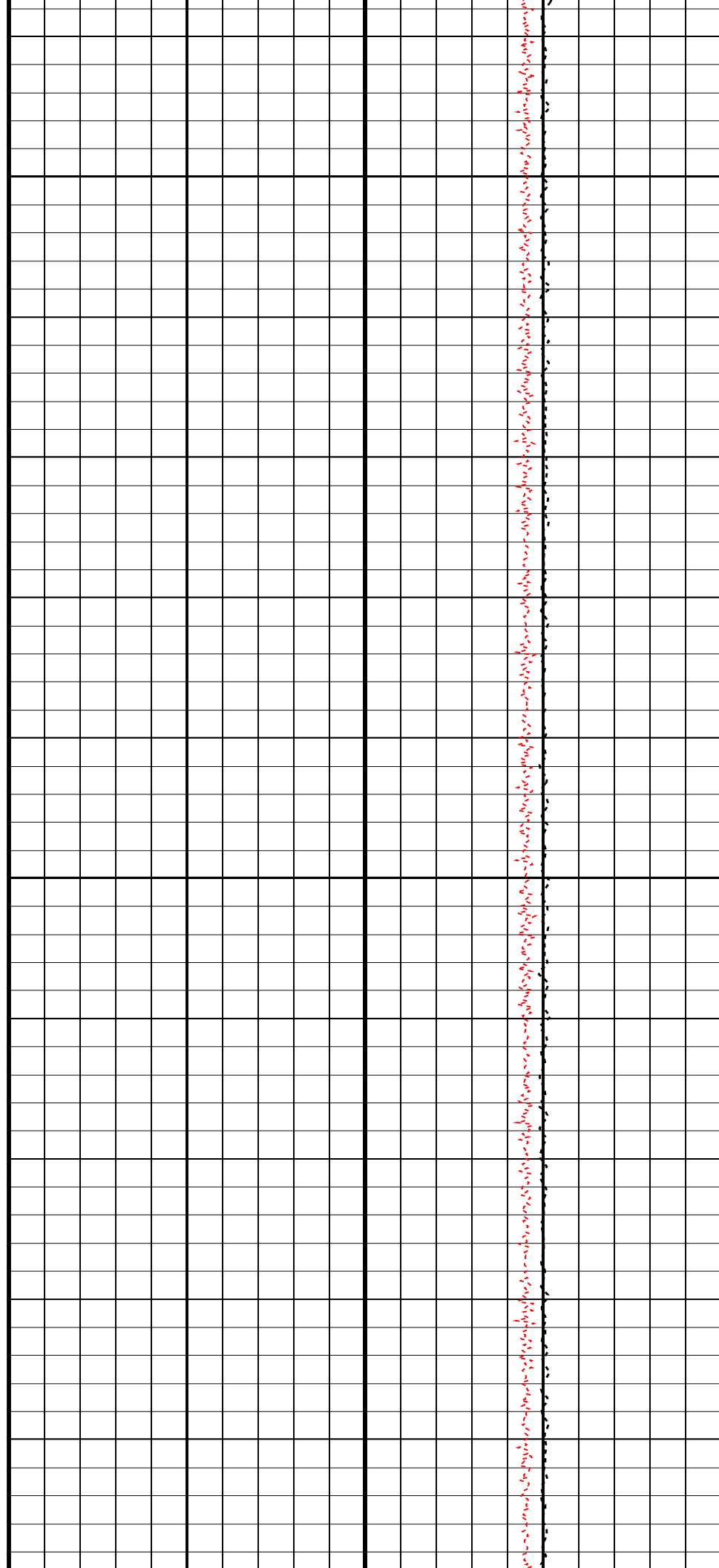
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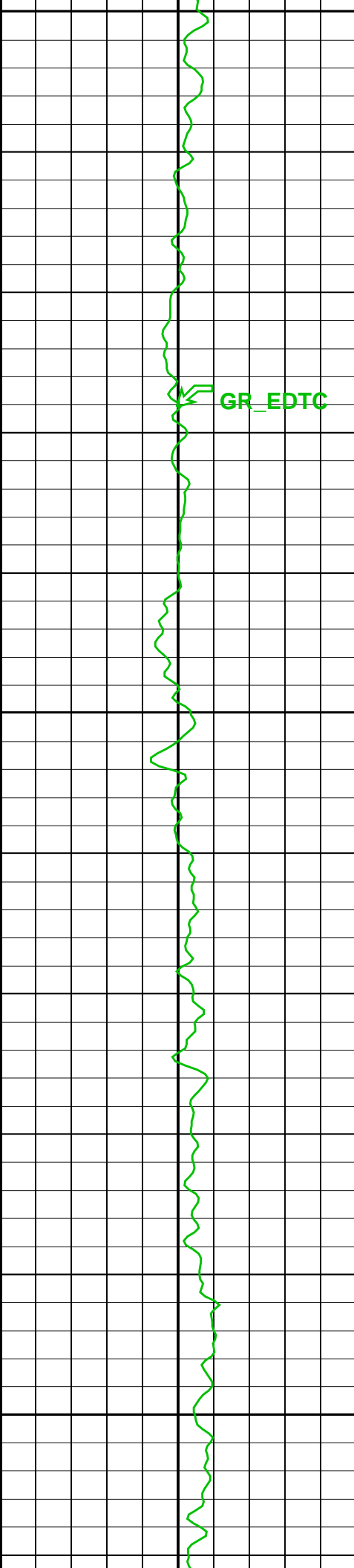


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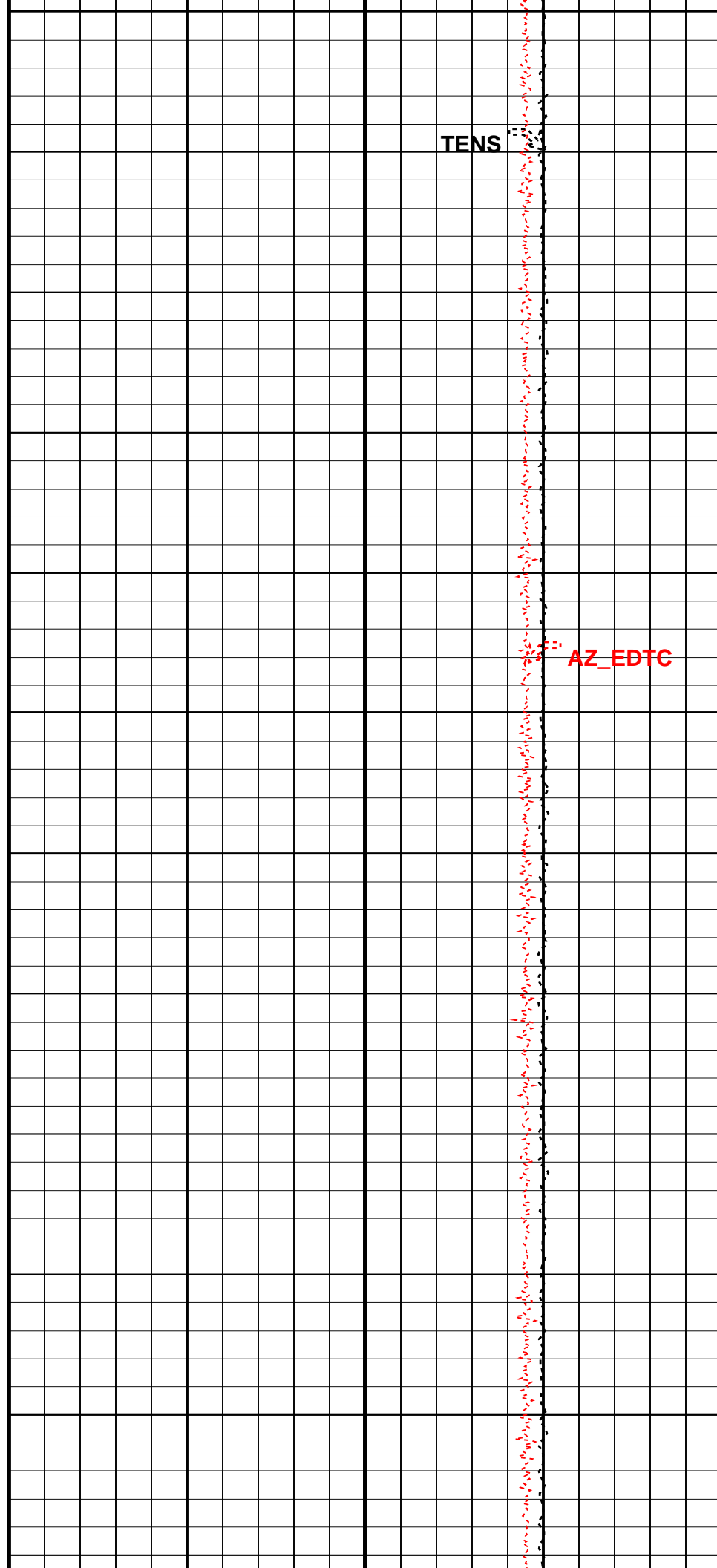


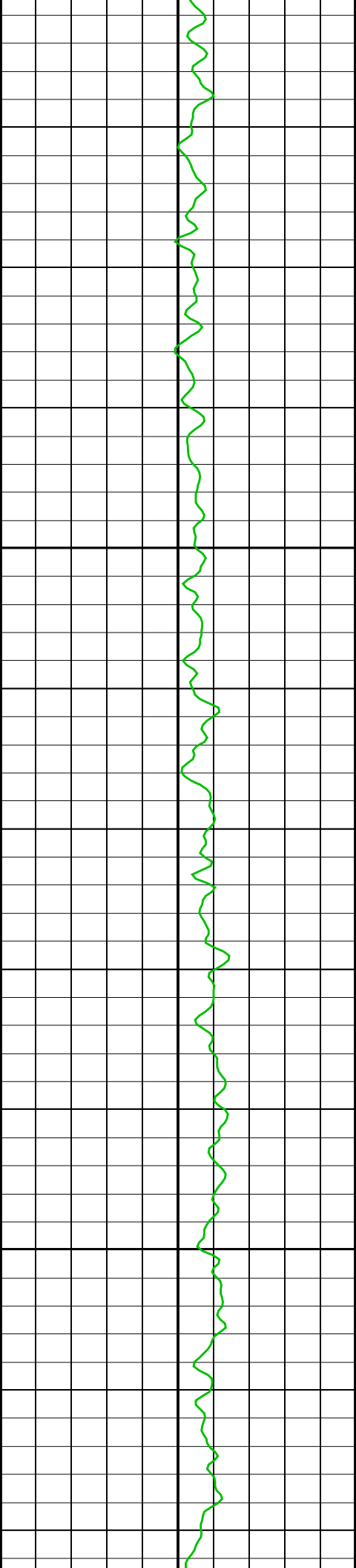


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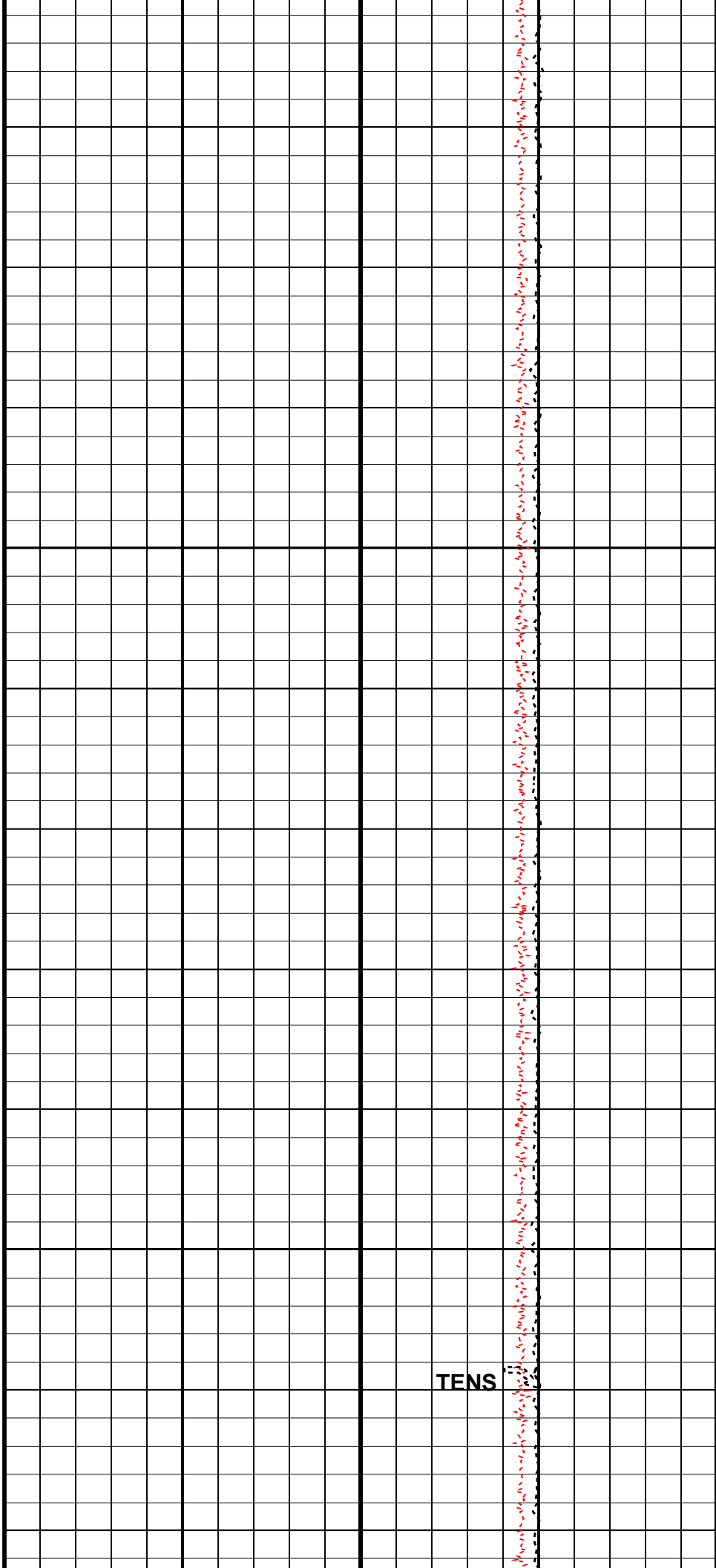




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TENS



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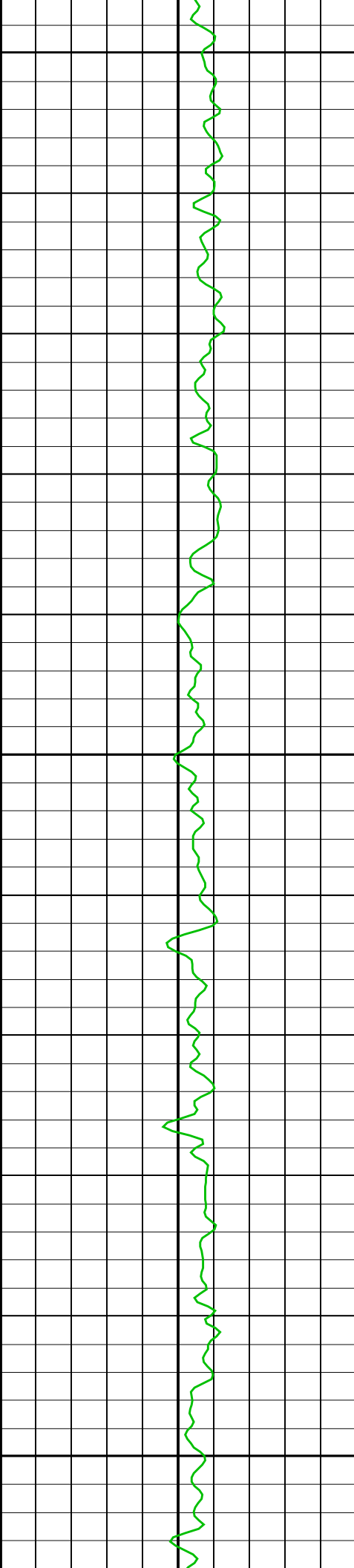
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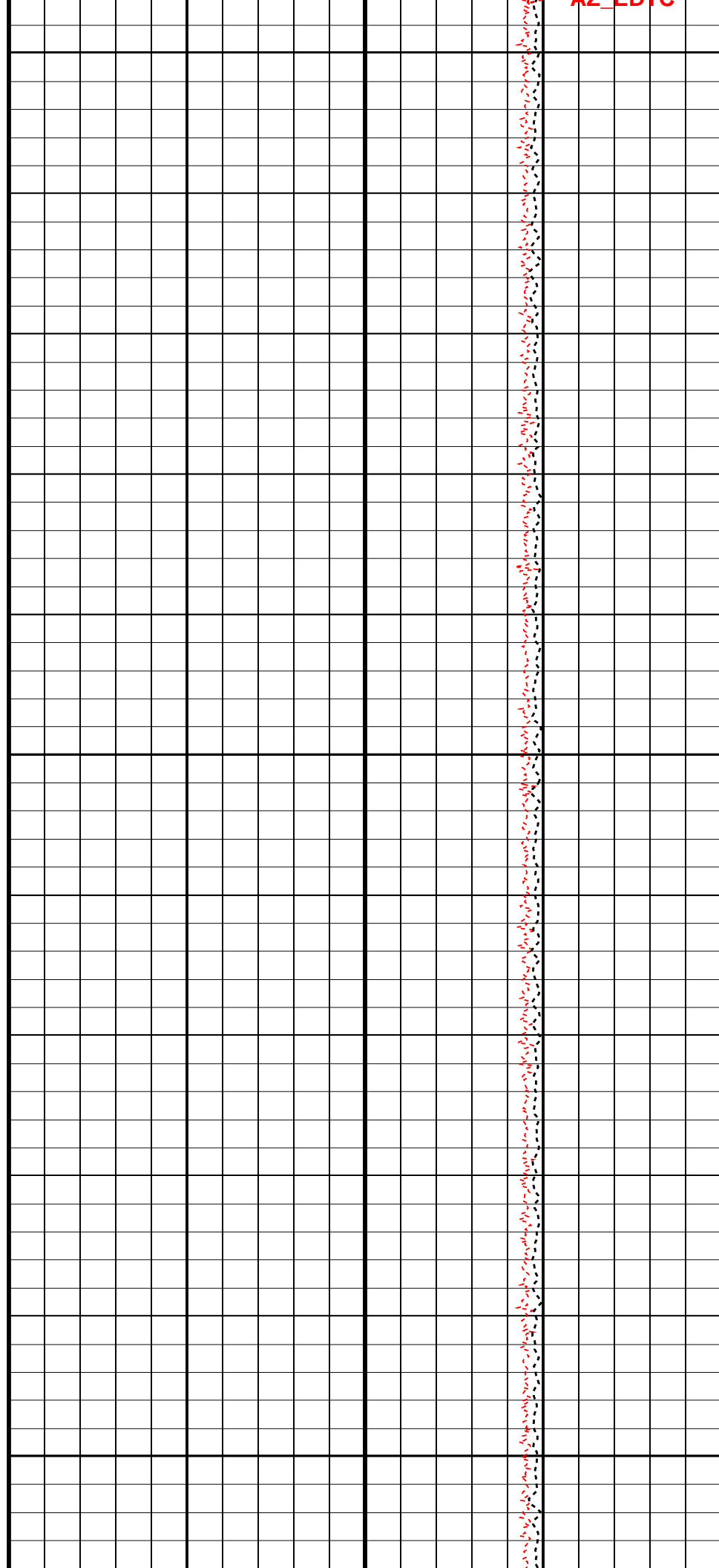
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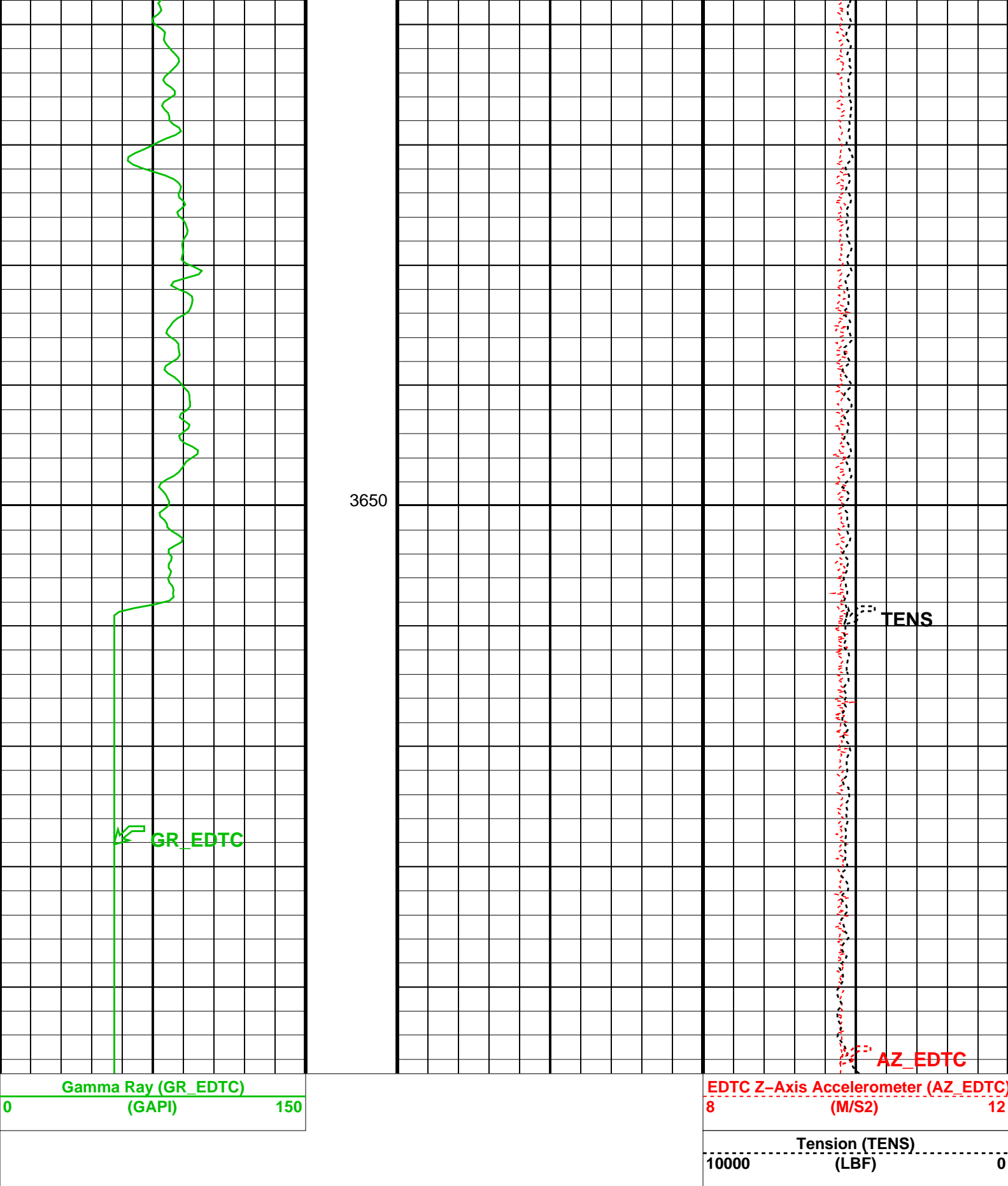
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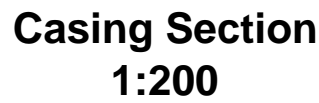


Parameters		
DLIS Name	Description	Value
System and Miscellaneous		
DO	Depth Offset for Playback	2.2 M
DORL	Depth Offset for Repeat Analysis	2.3 M
PP	Playback Processing	NORMAL

HILTH-FTB	19C1-222	HRLT-B	19C1-222
HNGC-B	HFE-5203-OP19.1-NUCL	HNGS-BA	HFE-5203-OP19.1-NUCL
SPA-A	19C1-222	EDTC-B	19C1-222

DEFAULT	TLD_MCFL_CNL_HRLA_013LUP	FN:18	PRODUCER	10-Sep-2012 05:42	3671.3 M	2425.1 M
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DEFAULT	TLD_MCFL_CNL_HRLA_015PUP	FN:22	PRODUCER	10-Sep-2012 10:32
CLIENT	TLD_MCFL_CNL_HRLA_015PUC	FN:23	CUSTOMER	10-Sep-2012 10:32
BACKUP	TLD_MCFL_CNL_HRLA_015PUP	FN:24	PRODUCER	10-Sep-2012 10:32



MAXIS Field Log

Well: C0020A

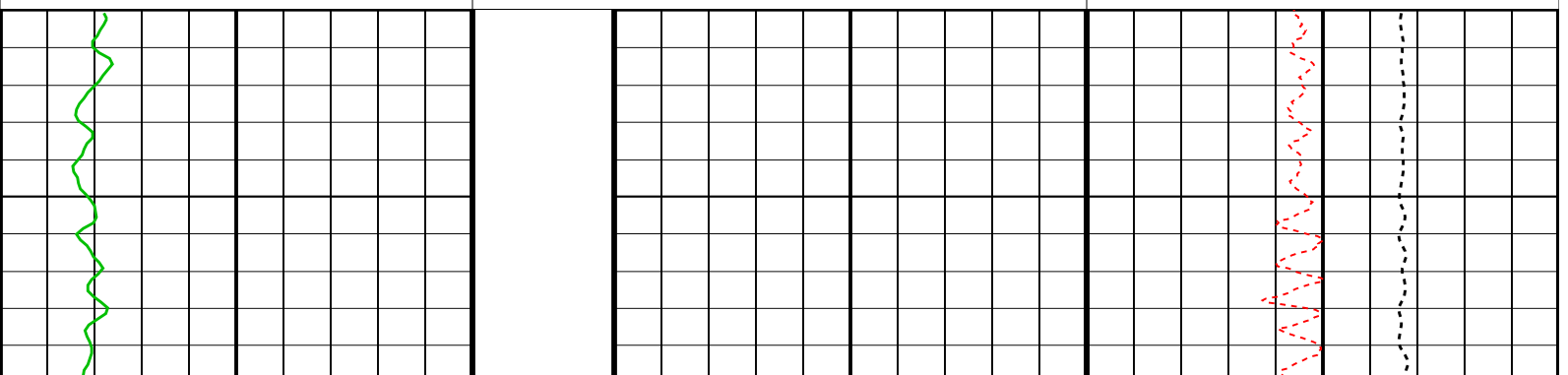
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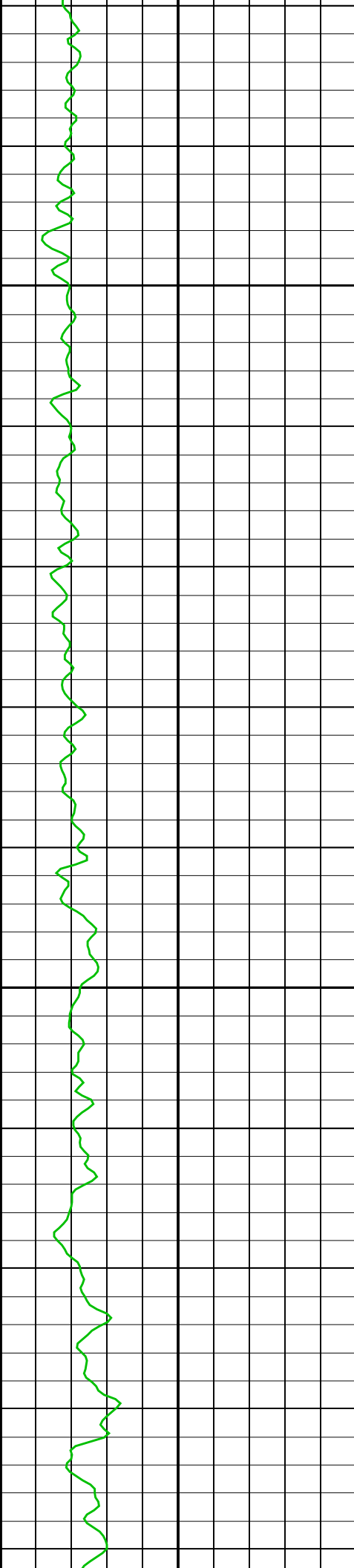
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HILTH-FTB	19C1-222	HRLT-B	19C1-222
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SPA-A	19C1-222	EDTC-B	19C1-222

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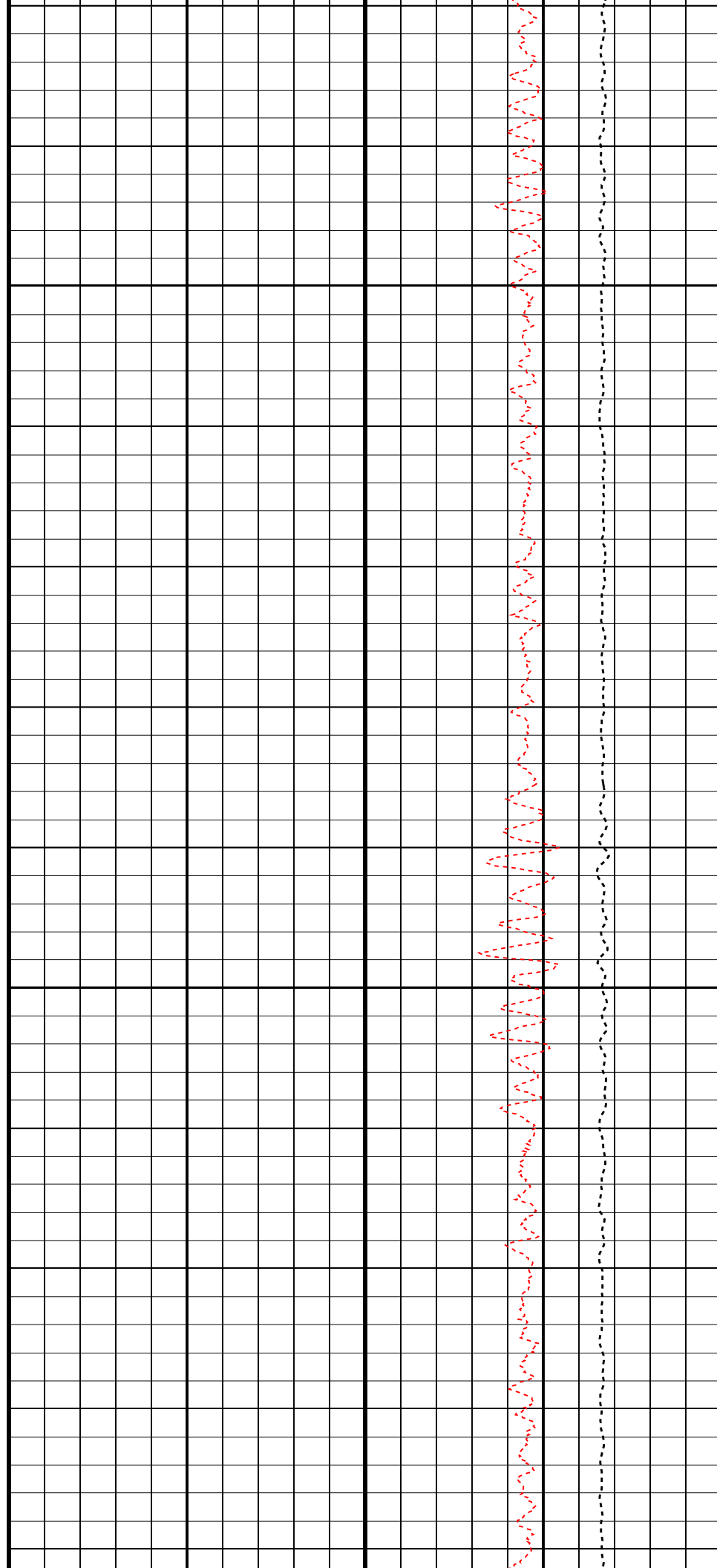
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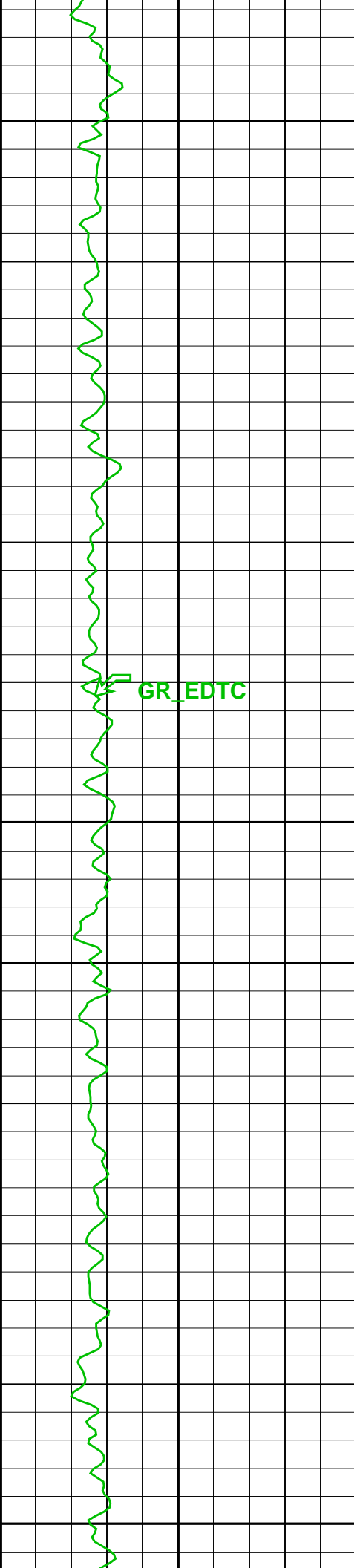




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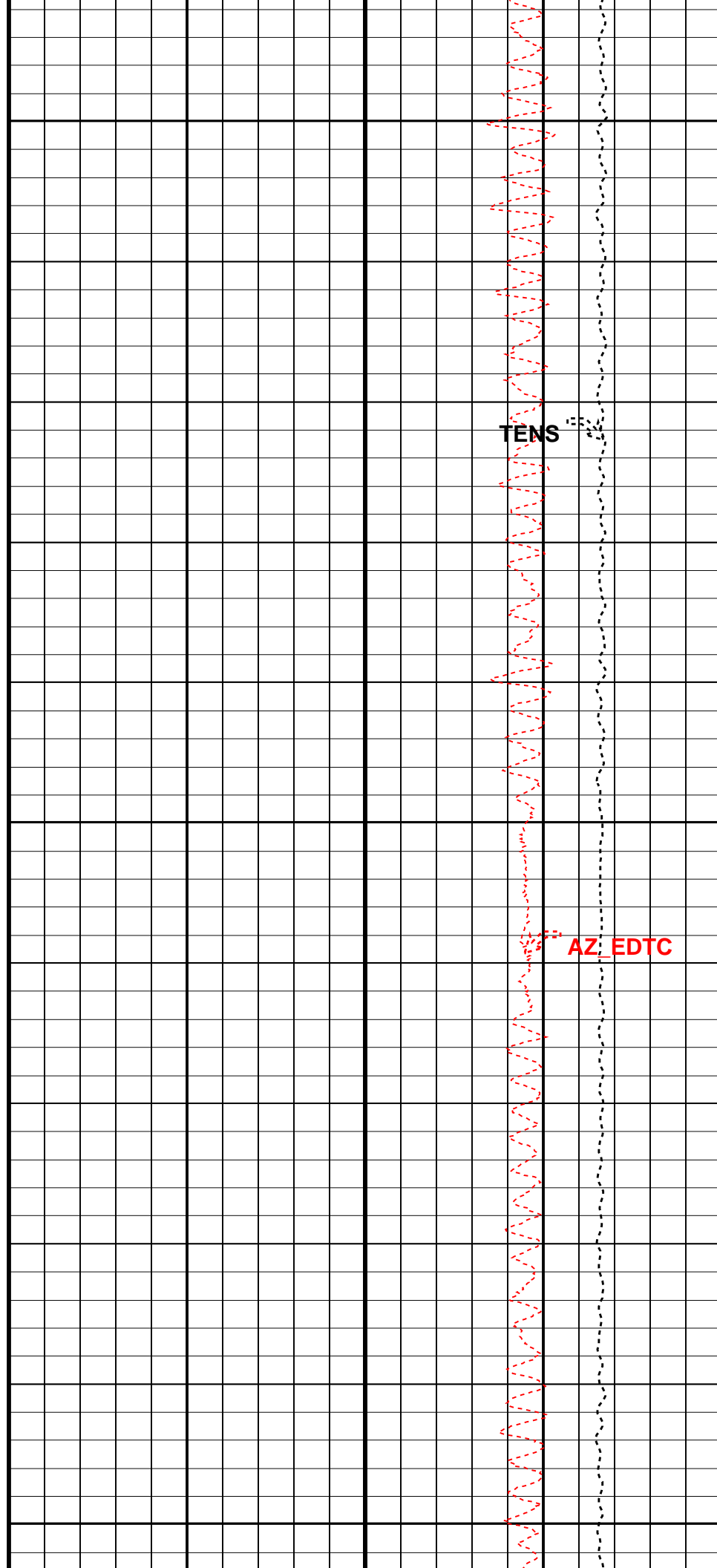


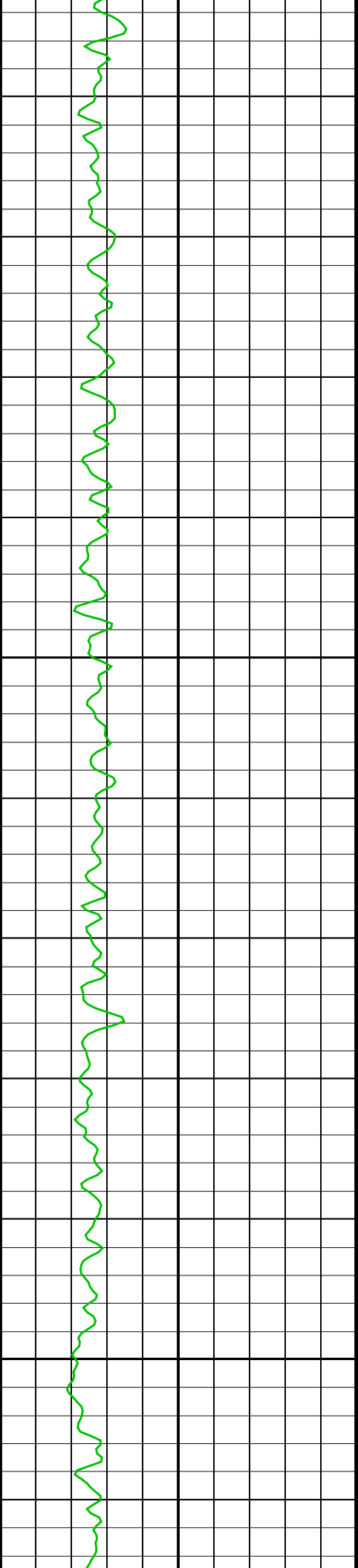


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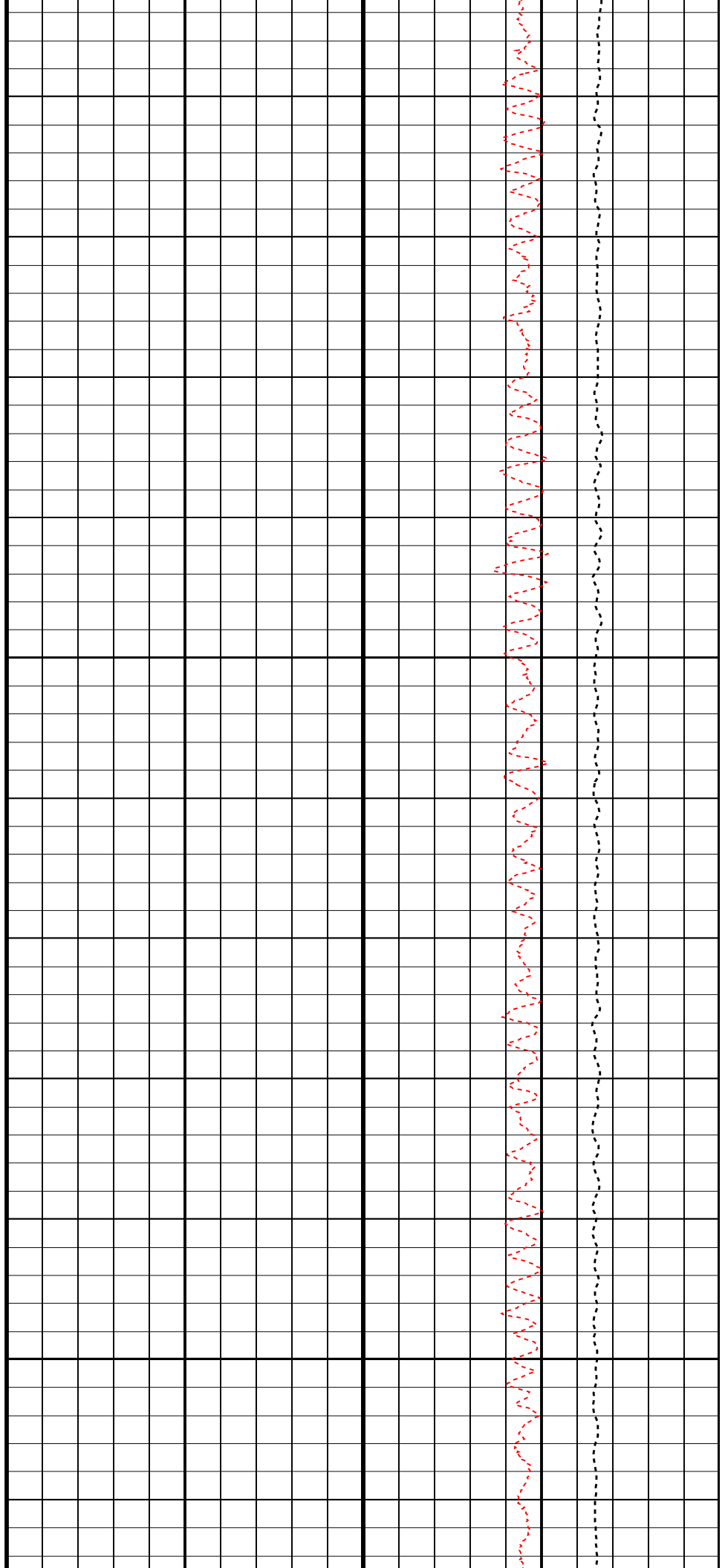
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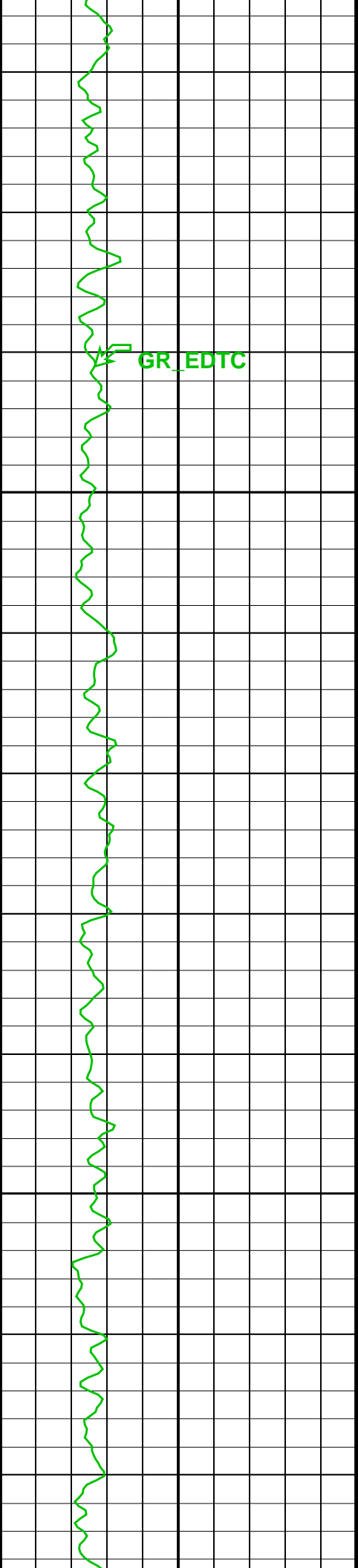




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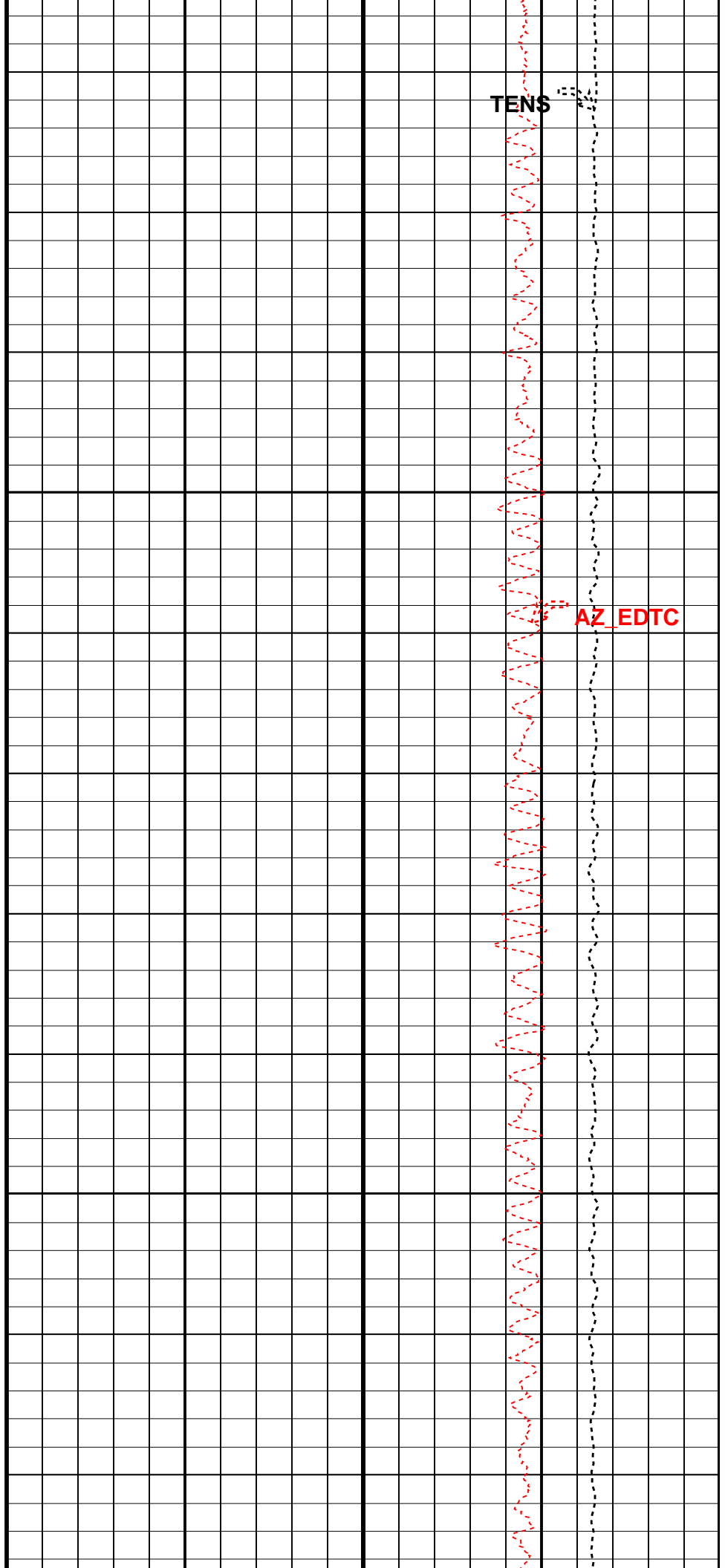
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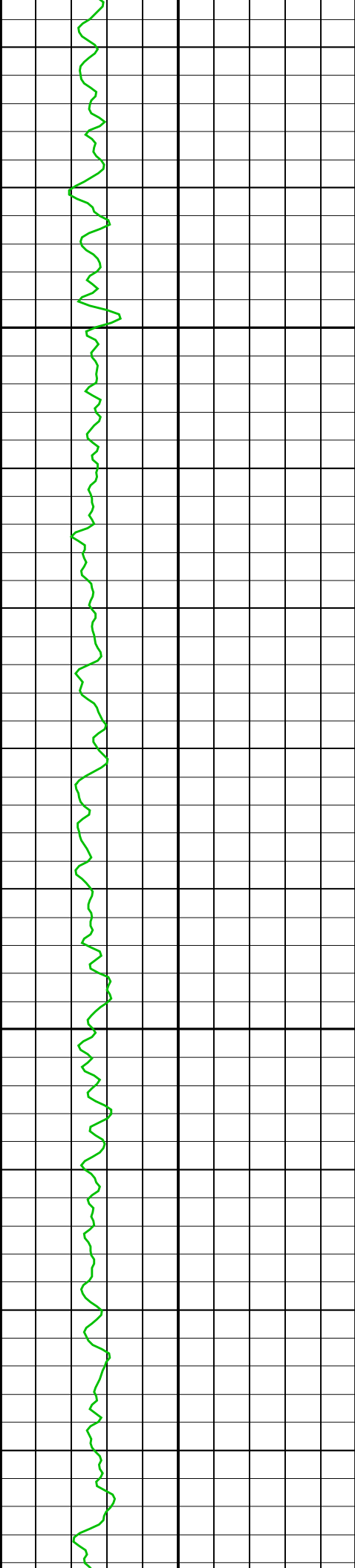
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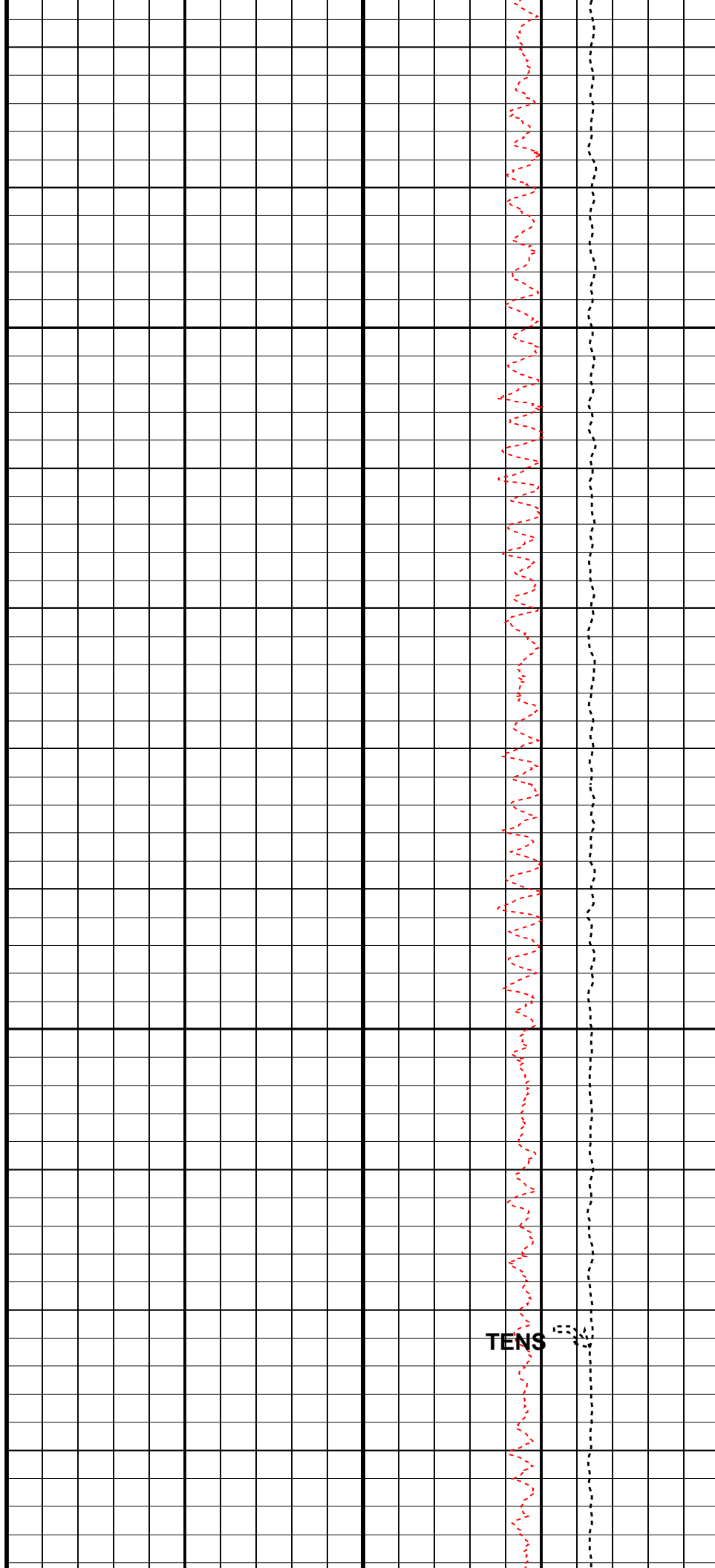
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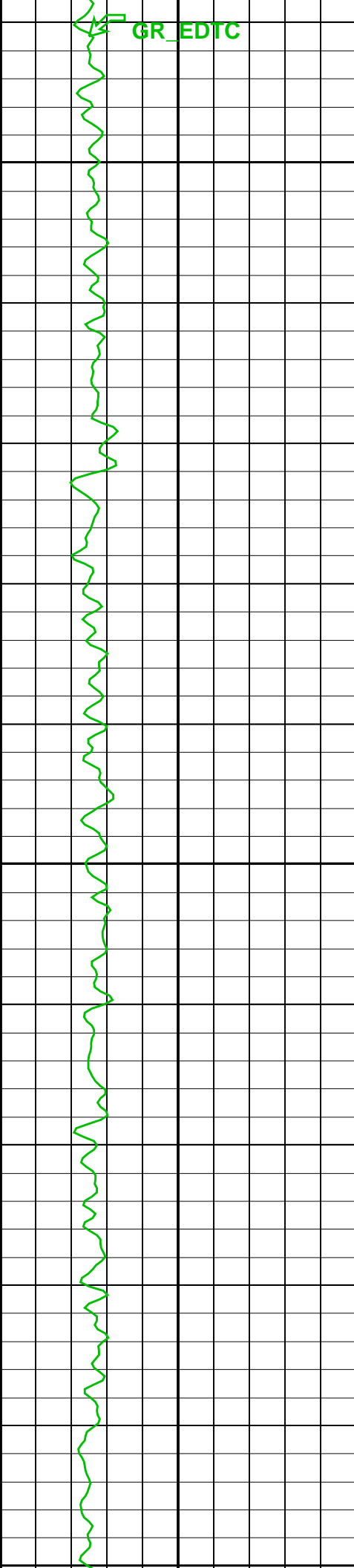


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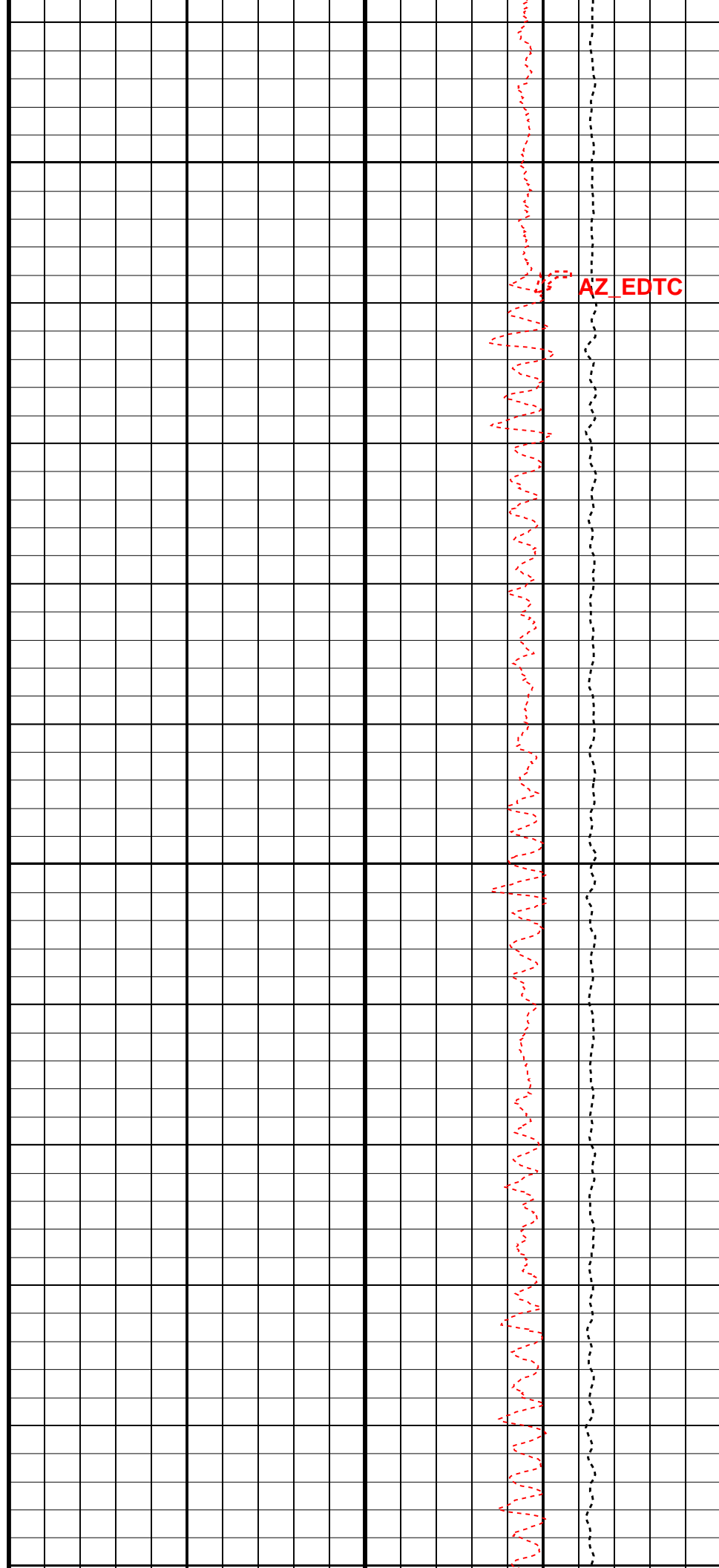


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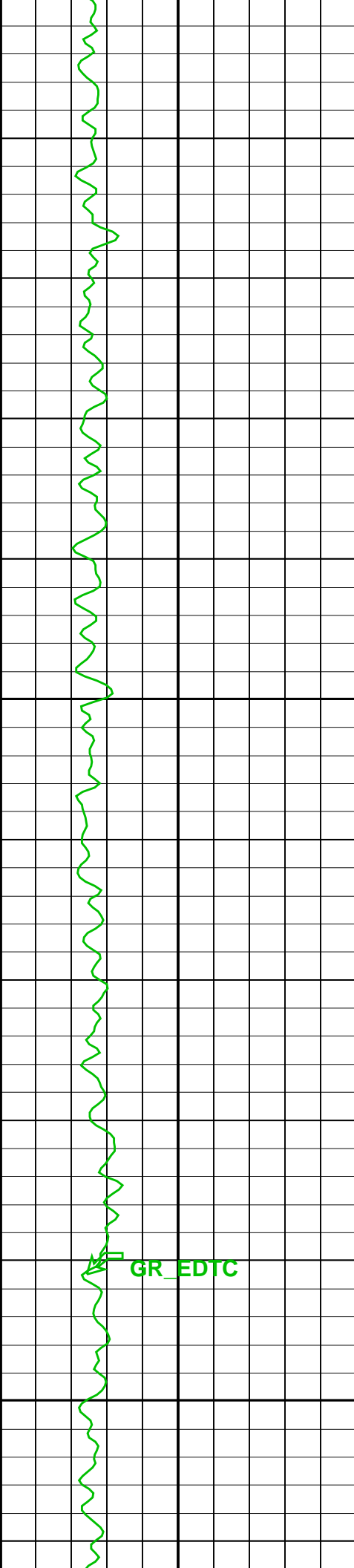
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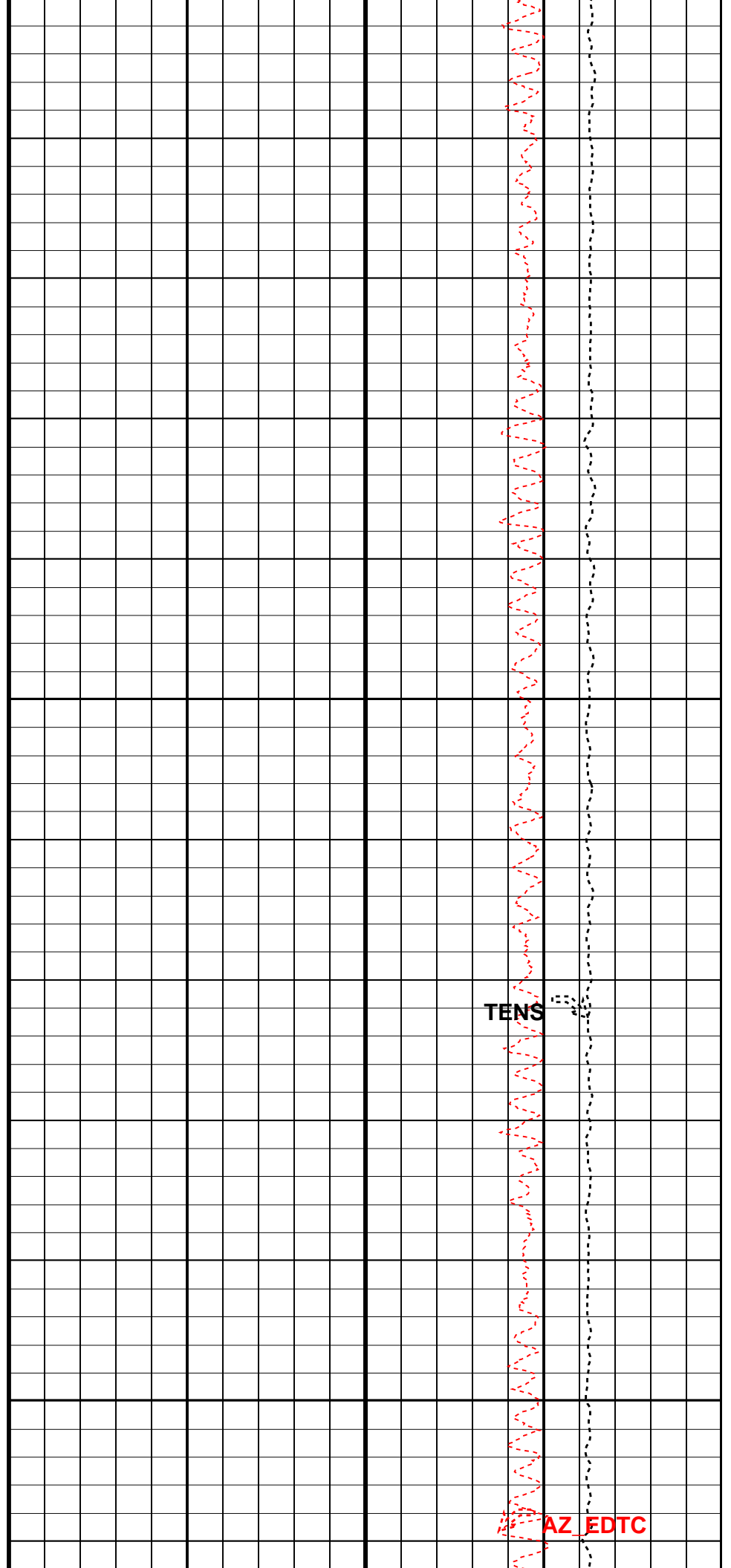


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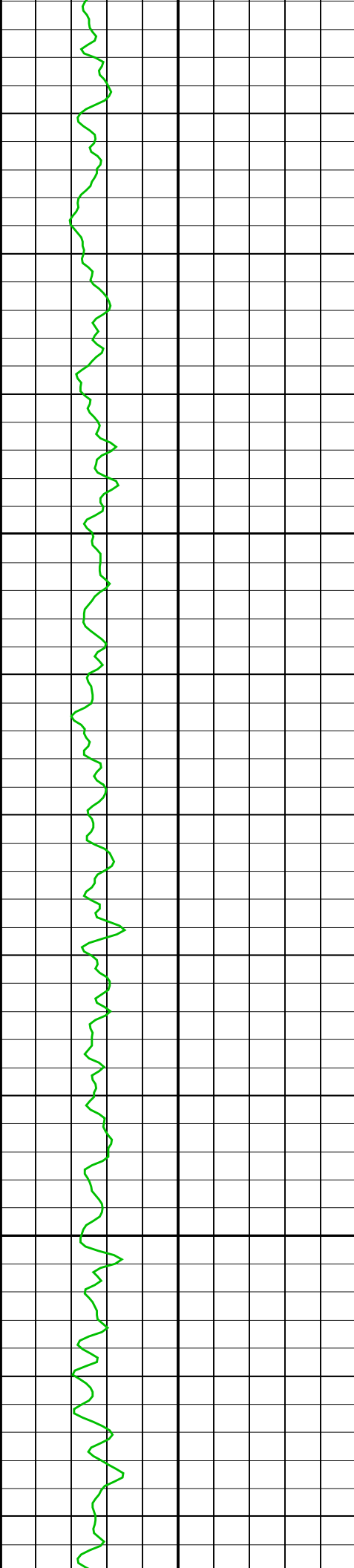
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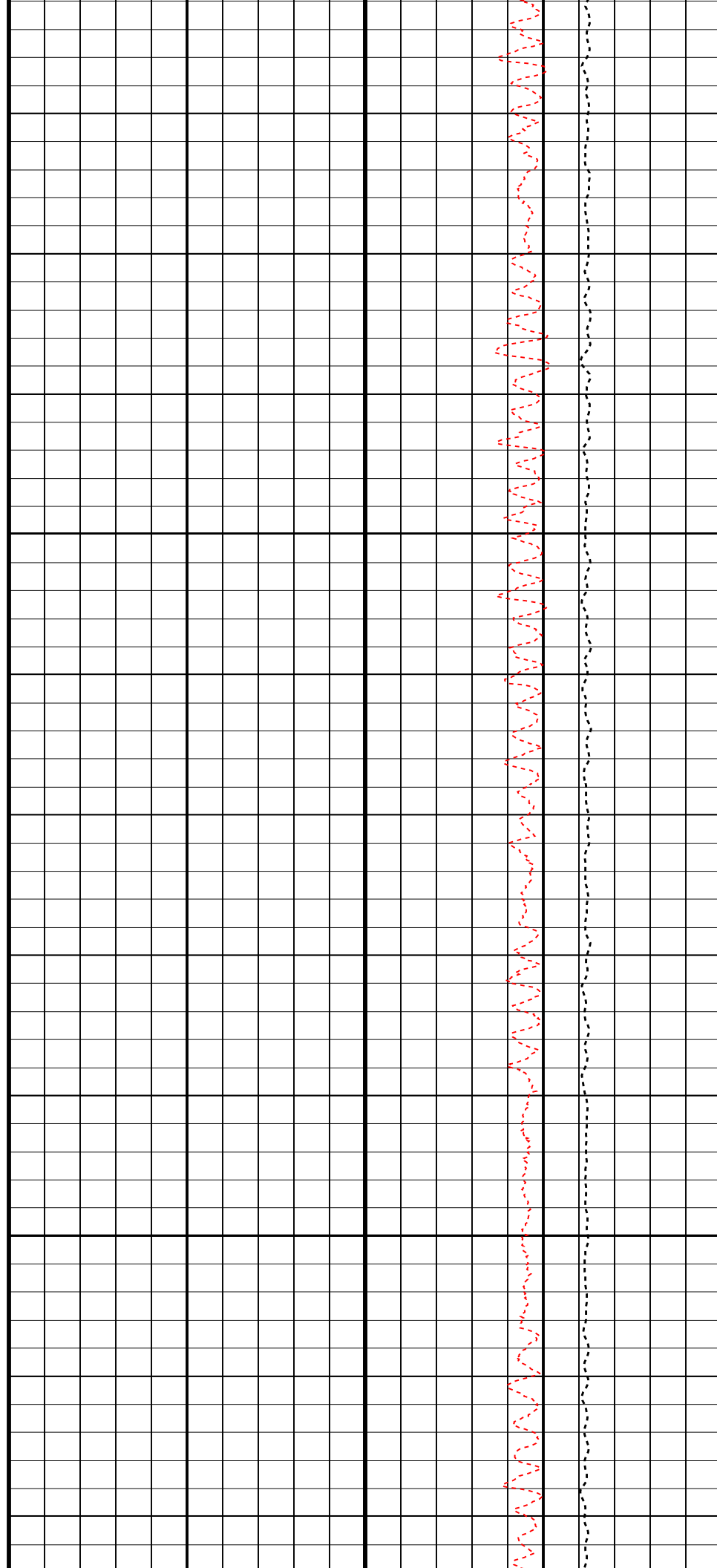
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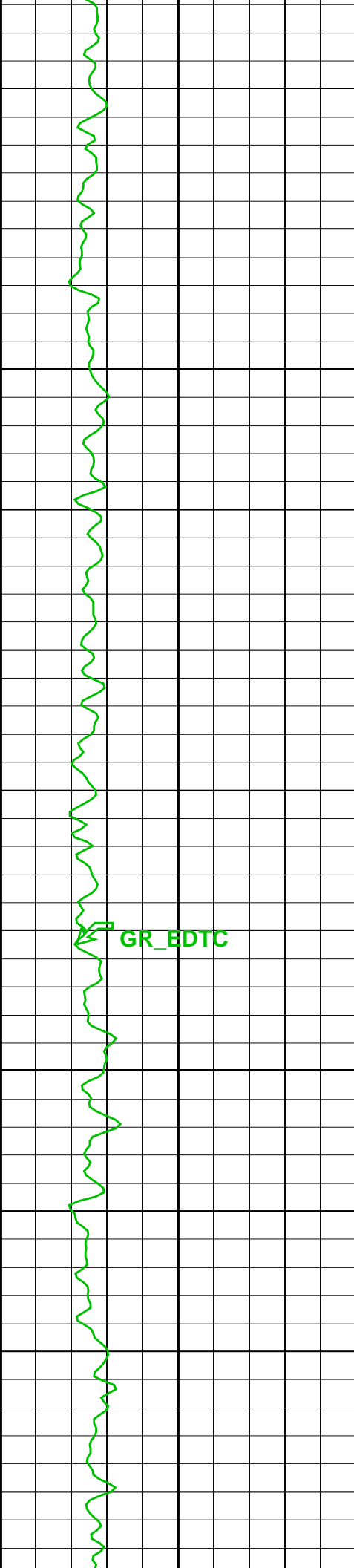
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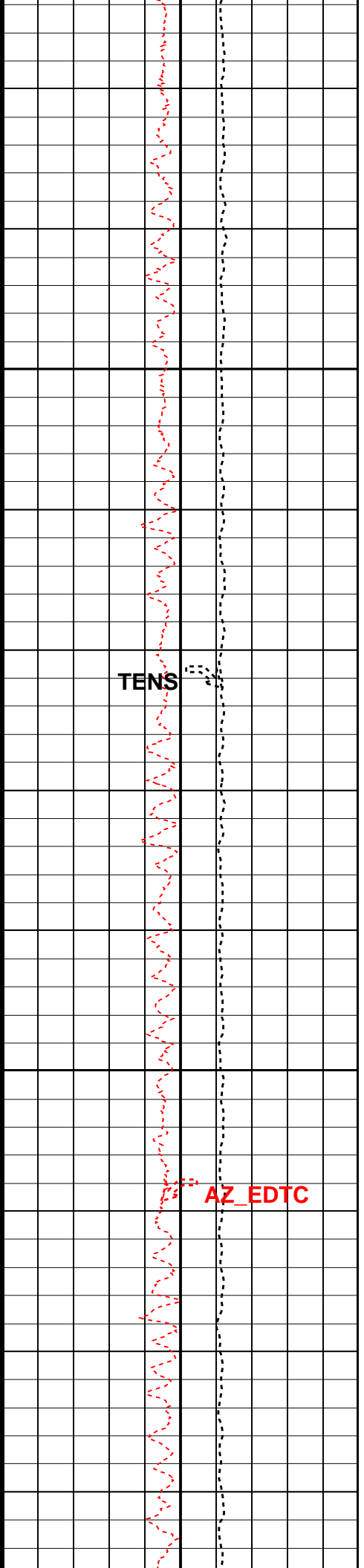
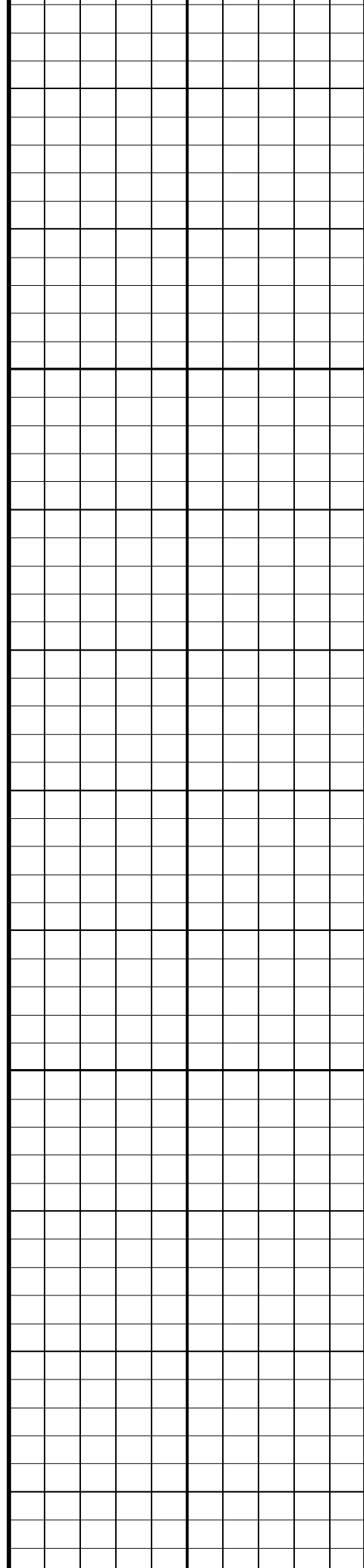




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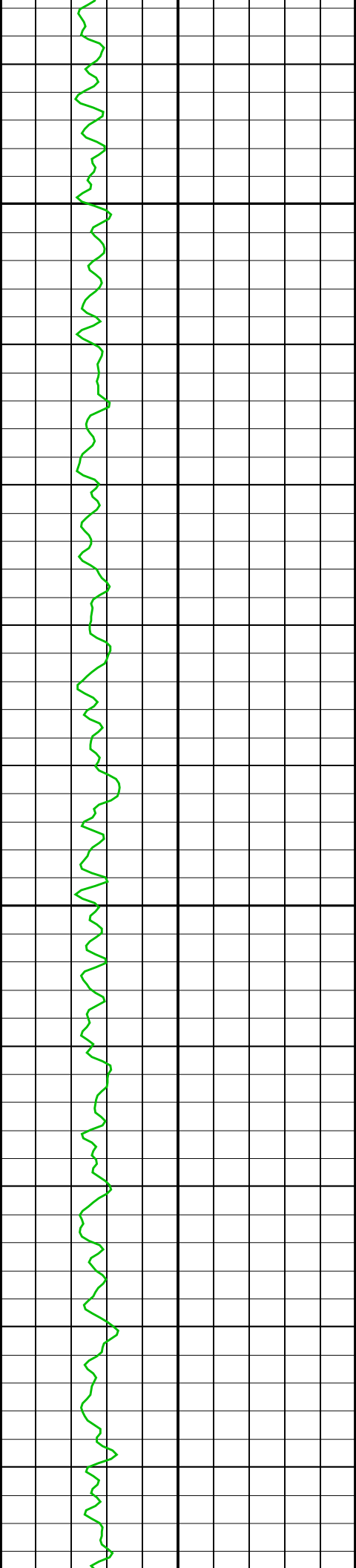
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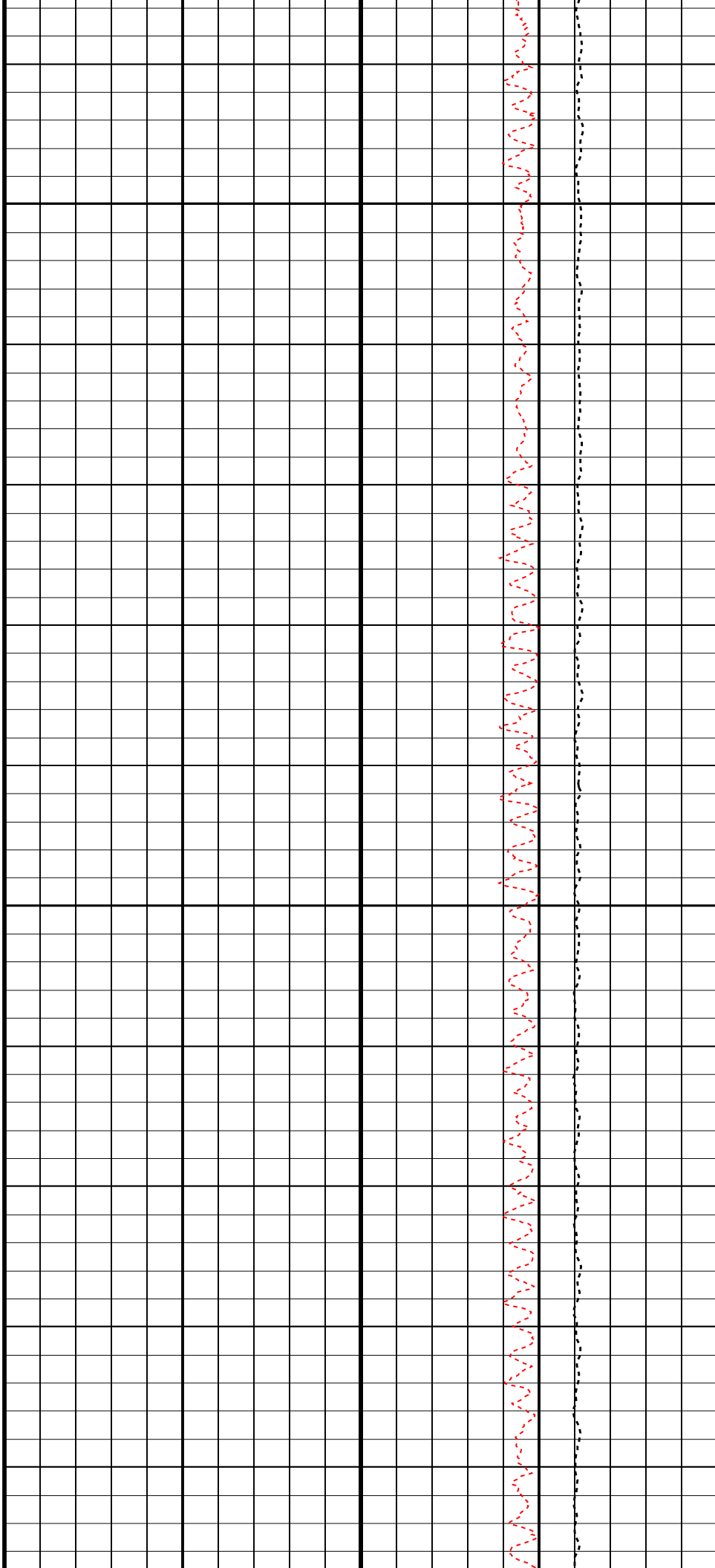
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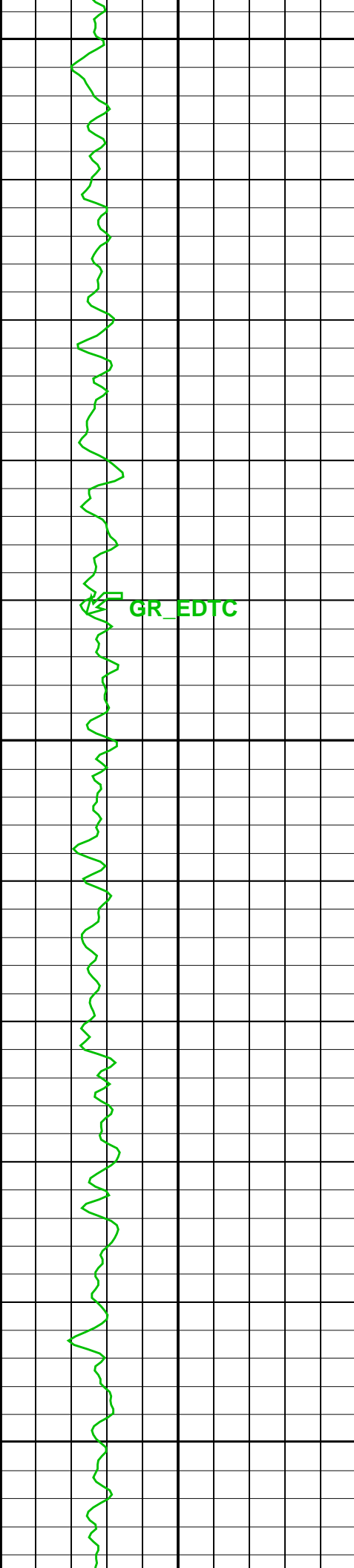
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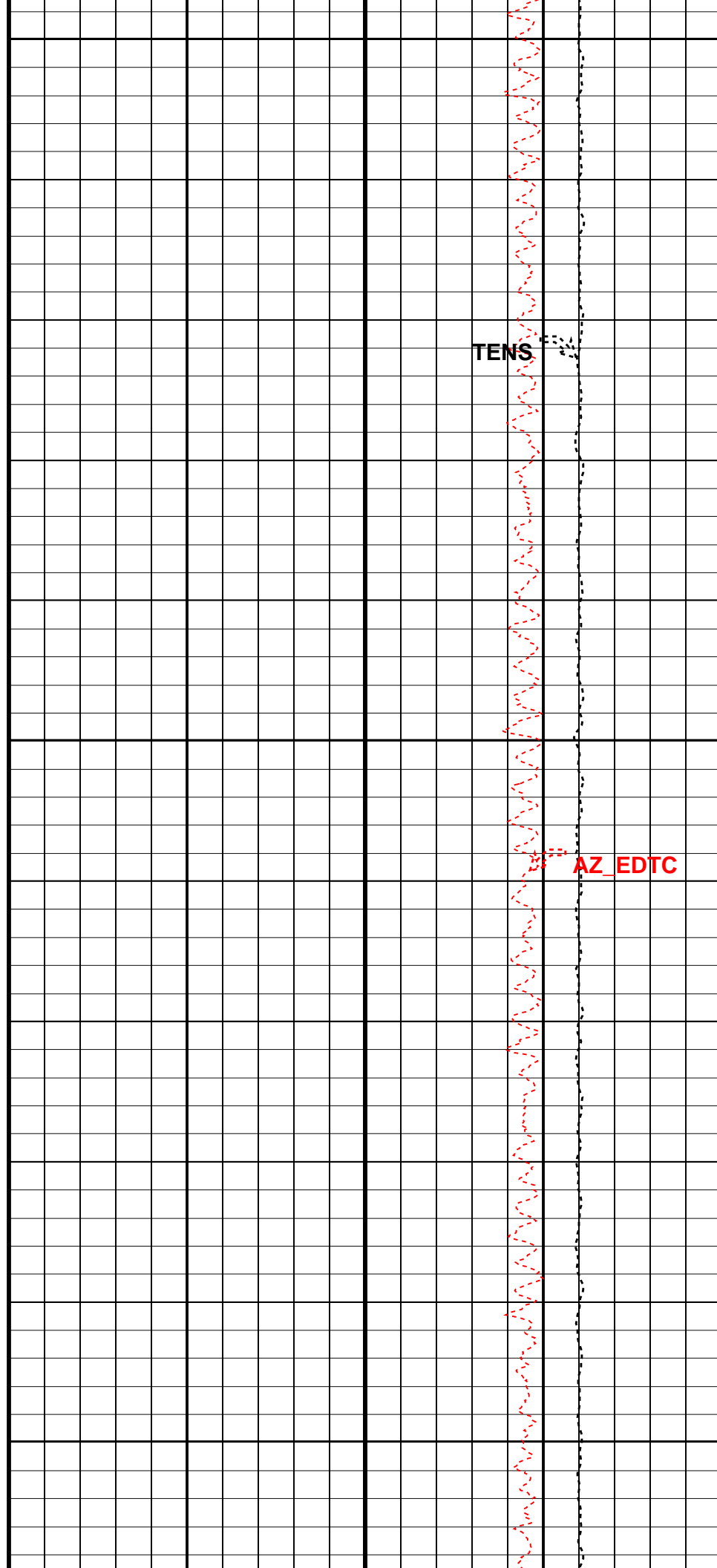


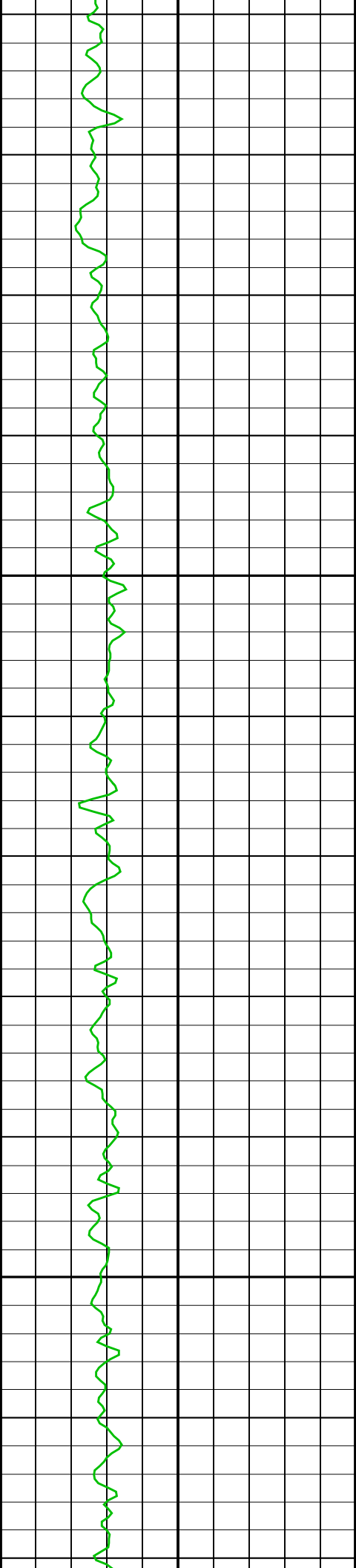


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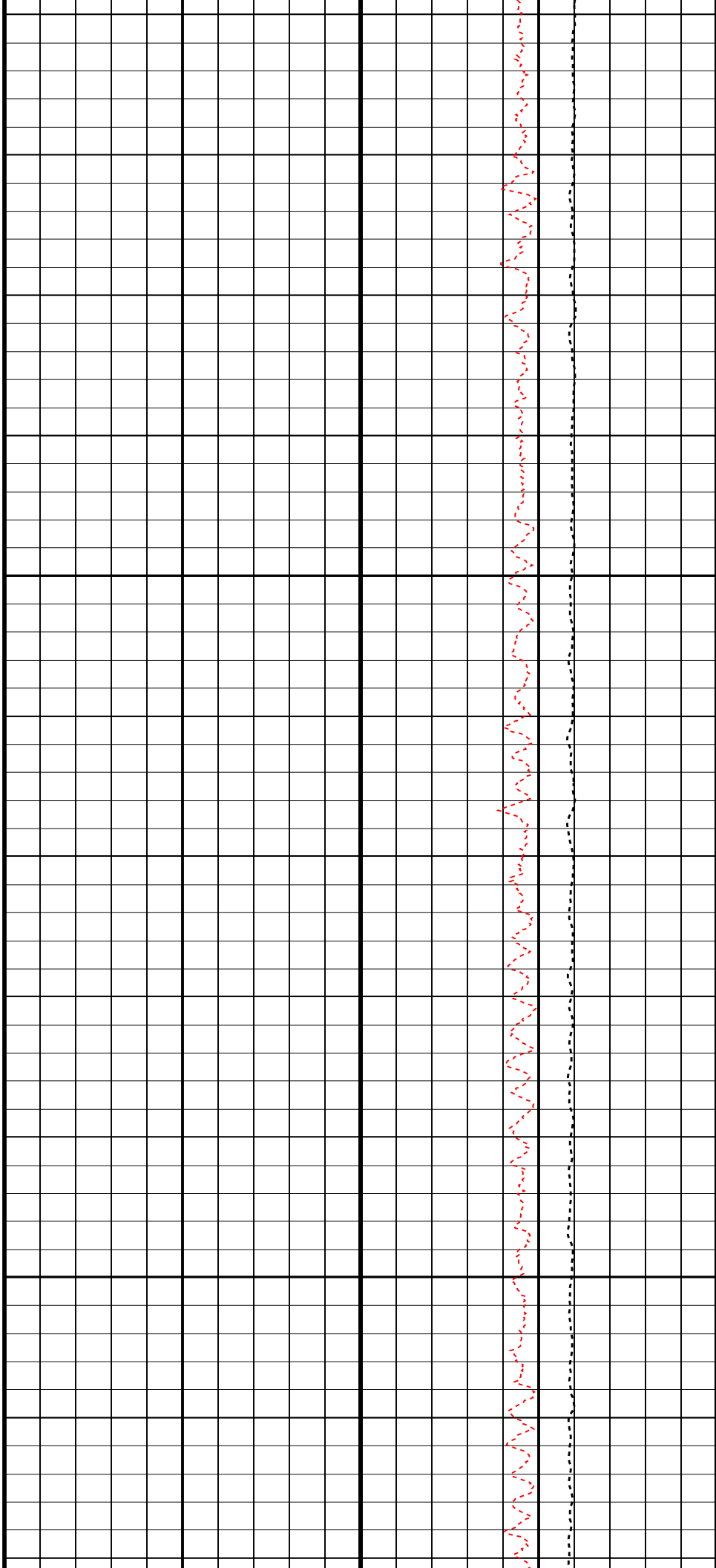
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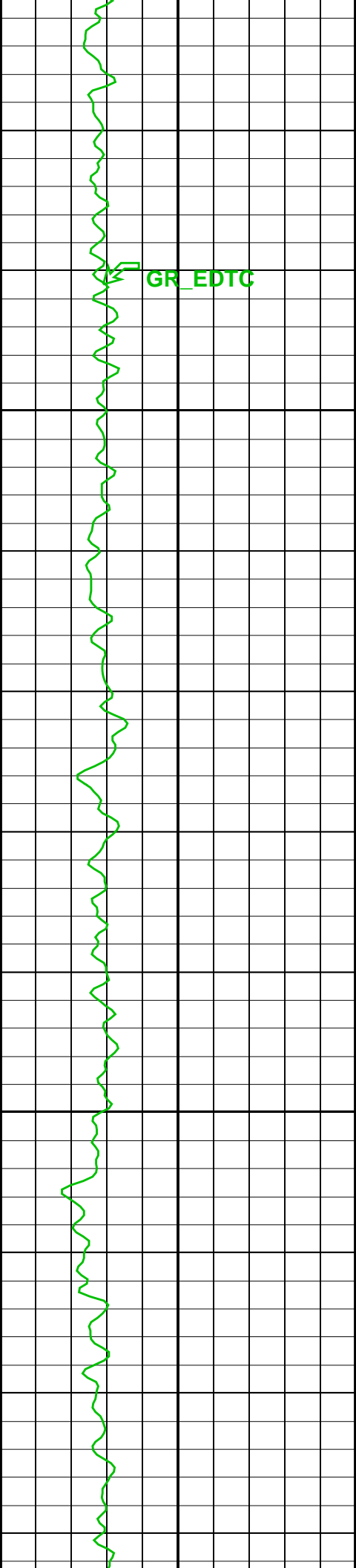




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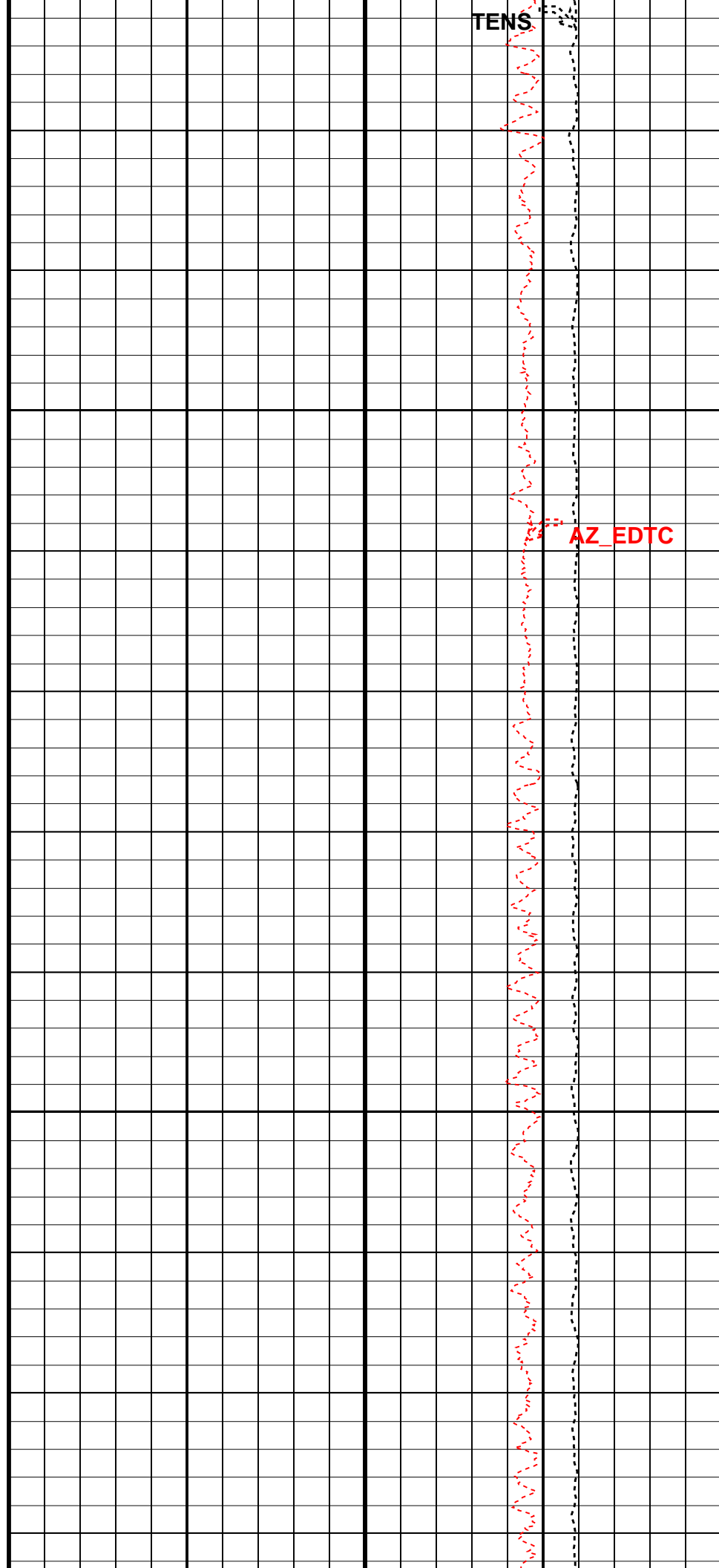
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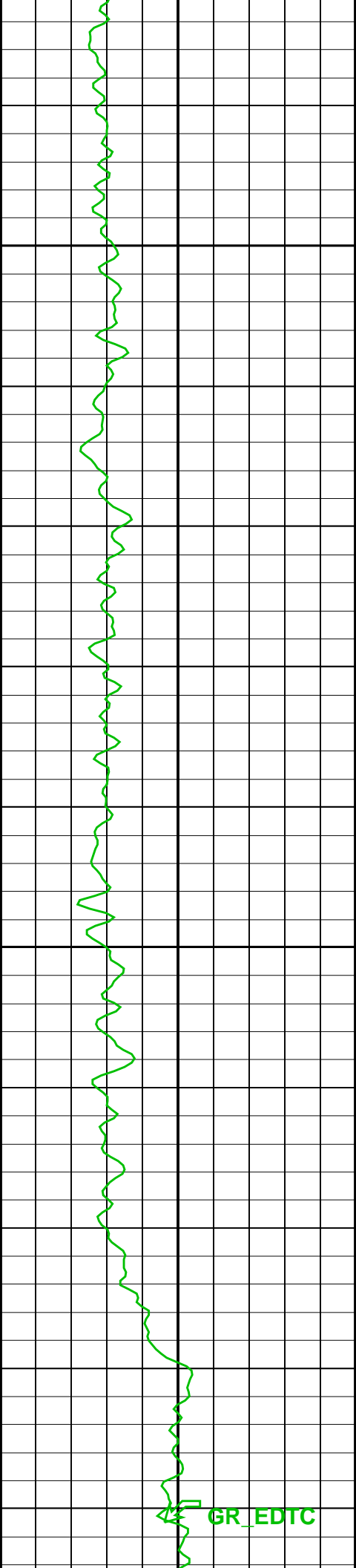




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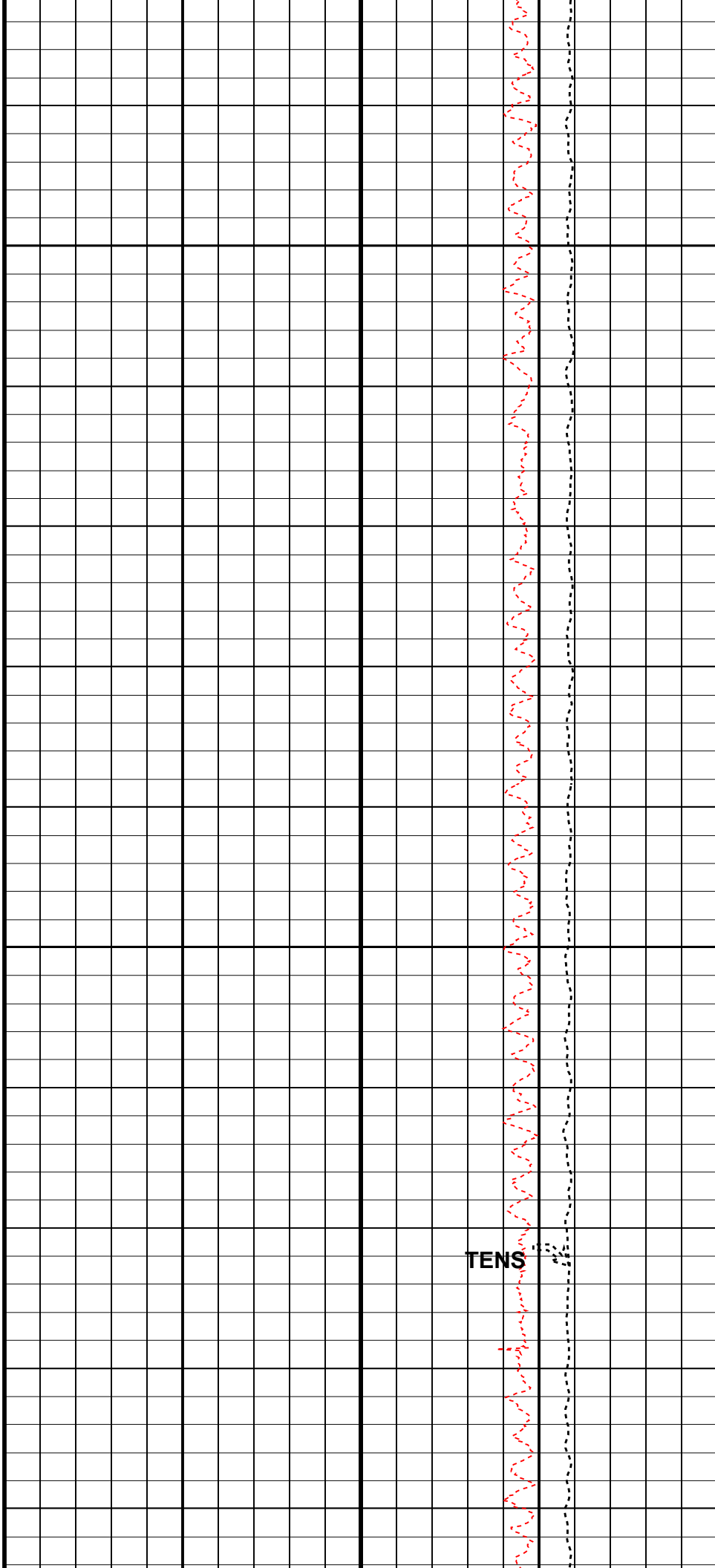




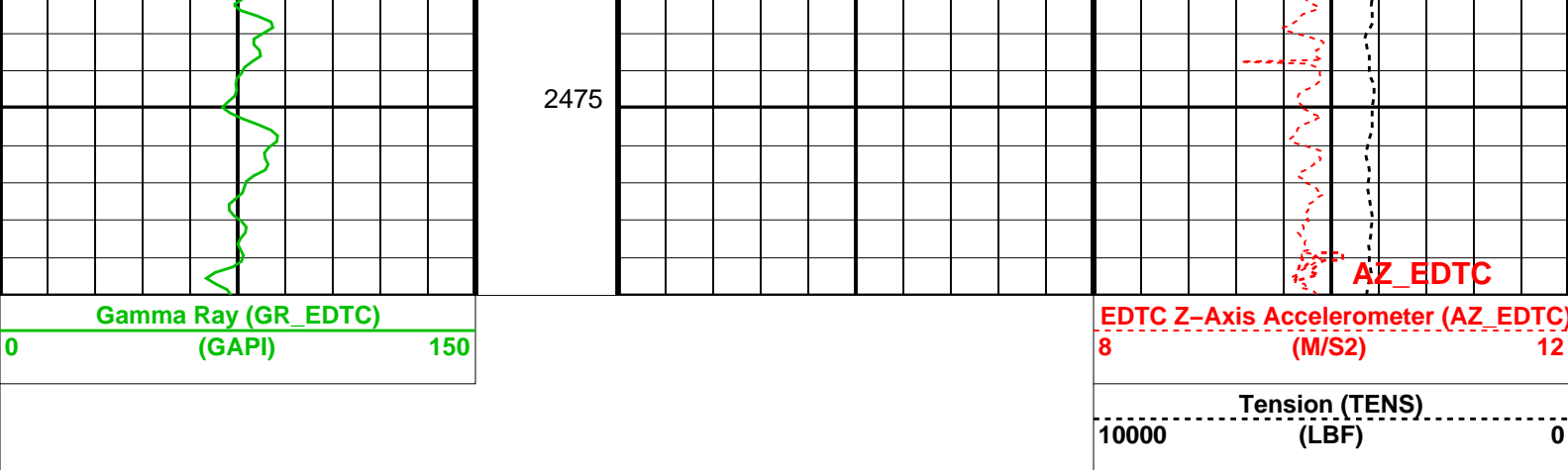
2425

2450

GR_EDTC



TENS



Parameters		
DLIS Name	Description	Value
System and Miscellaneous		
DO	Depth Offset for Playback	0.2 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL

Format: CORRELATION_EDTCB Vertical Scale: 1:200 Graphics File Created: 16-Sep-2012 00:12

OP System Version: 19C1-222			
HILTH-FTB	19C1-222	HRLT-B	19C1-222
HNGC-B	HFE-5203-OP19.1-NUCL	HNGS-BA	HFE-5203-OP19.1-NUCL
SPA-A	19C1-222	EDTC-B	19C1-222

Input DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_016LUP	FN:25	PRODUCER	10-Sep-2012 11:01	3246.1 M	1636.0 M
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_182PUP	FN:479	PRODUCER	16-Sep-2012 00:12		
CLIENT	TLD_MCFL_CNL_HRLA_182PUC	FN:480	CUSTOMER	16-Sep-2012 00:12		



Calibration Report

MAXIS Field Log

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
High resolution Integrated Logging Tool-DTS Wellsite Calibration – Stab Measurement Summary							
Before: 10-Sep-2012 1:32							
BS Window Ratio	0.7437	N/A	0.7445	N/A	N/A	N/A	
BS Window Sum	27440	N/A	27400	N/A	N/A	N/A	CPS
SS Window Ratio	0.4887	N/A	0.4893	N/A	N/A	N/A	
SS Window Sum	11390	N/A	11370	N/A	N/A	N/A	CPS
LS Window Ratio	0.3012	N/A	0.3024	N/A	N/A	N/A	
LS Window Sum	1273	N/A	1275	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Photo–multiplier High Voltages Calibrations							
Before: 10–Sep–2012 1:32							
BS PM High Voltage (Command)	1250	N/A	1248	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1430	N/A	1430	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1268	N/A	1267	N/A	N/A	N/A	V
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration							
Before: 10–Sep–2012 1:32							
BS Crystal Resolution	10.62	N/A	10.61	N/A	N/A	N/A	%
SS Crystal Resolution	8.716	N/A	8.852	N/A	N/A	N/A	%
LS Crystal Resolution	8.049	N/A	8.168	N/A	N/A	N/A	%
High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration							
Before: 10–Sep–2012 1:34							
Raw B0 Resistivity	3875	N/A	3863	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3793	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3835	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration							
Before: 4–Sep–2012 16:25							
HILT Caliper Zero Measurement	8.000	N/A	7.973	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.18	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration							
Before: 4–Sep–2012 16:07 After: Calibration not done							
Gamma Ray Background	30.00	N/A	4.349	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	165.0	N/A	176.5	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement							
Master: 6–Jul–2012 15:01 Before: 10–Sep–2012 1:29 After: 10–Sep–2012 14:40							
CNTC Background	27.48	27.48	27.24	27.67	0.4300	4.122	CPS
CFTC Background	29.17	29.17	27.02	26.74	–0.2864	4.376	CPS
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement							
Master: 6–Jul–2012 15:01							
Thermal Near Corr. (Tank)	5800	2645	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	1108	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.388	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration							
Before: 10–Sep–2012 1:28							
Z–Axis Acceleration	9.810	N/A	9.765	N/A	N/A	N/A	M/S2
High resolution Integrated Logging Tool–DTS Master Calibration – Inversion results							
Master: 18–Aug–2012 12:28							
Rho Aluminum	2.596	2.595	---	---	---	---	G/C3
Rho Magnesium	1.686	1.689	---	---	---	---	G/C3
Pe Aluminum	2.570	2.520	---	---	---	---	
Pe Magnesium	2.650	2.635	---	---	---	---	
High resolution Integrated Logging Tool–DTS Master Calibration – Deviation Summary							
Master: 18–Aug–2012 12:28							
BS Average Deviation	0	0.3647	---	---	---	---	%
BS Max Deviation	0	1.386	---	---	---	---	%
SS Average Deviation	0	0.6524	---	---	---	---	%
SS Max Deviation	0	2.044	---	---	---	---	%
LS Average Deviation	0	0.7838	---	---	---	---	%
LS Max Deviation	0	2.044	---	---	---	---	%
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 10–Sep–2012 1:27 After: 10–Sep–2012 14:39							
HRLT M0–M1 Voltage Plus – 0	0	N/A	–318.5	–317.9	0.6151	9.681	UV
HRLT M0–M1 Voltage Plus – 1	0	N/A	–332.3	–331.6	0.6586	9.681	UV
HRLT M0–M1 Voltage Plus – 2	0	N/A	–321.8	–322.3	–0.5164	9.681	UV
HRLT M0–M1 Voltage Plus – 3	0	N/A	–327.8	–327.4	0.3868	9.681	UV
HRLT M0–M1 Voltage Plus – 4	0	N/A	–320.0	–319.7	0.3028	9.681	UV
HRLT M0–M1 Voltage Plus – 5	0	N/A	–325.1	–324.9	0.2282	9.681	UV
HRLT M0–M1 Voltage Plus – 6	0	N/A	322.7	322.2	–0.5252	9.681	UV
HRLT M0–M1 Voltage Plus – 7	0	N/A	–322.7	–322.7	0	9.681	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12							
Before: 10–Sep–2012 1:27 After: 10–Sep–2012 14:39							
HRLT M1–M2 Voltage Plus – 0	0	N/A	1755	1752	–3.067	53.42	UV
HRLT M1–M2 Voltage Plus – 1	0	N/A	1833	1829	–3.863	53.42	UV
HRLT M1–M2 Voltage Plus – 2	0	N/A	1770	1773	2.578	53.42	UV
HRLT M1–M2 Voltage Plus – 3	0	N/A	1804	1802	–1.836	53.42	UV
HRLT M1–M2 Voltage Plus – 4	0	N/A	1762	1760	–1.483	53.42	UV
HRLT M1–M2 Voltage Plus – 5	0	N/A	1792	1790	–1.285	53.42	UV
HRLT M1–M2 Voltage Plus – 6	0	N/A	–1787	–1784	2.869	53.42	UV
HRLT M1–M2 Voltage Plus – 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT M2-M3 Voltage Plus – 0	0	N/A	1732	1729	-3.139	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1815	1811	-3.616	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1755	1758	2.903	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1794	1792	-2.173	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1748	1747	-1.014	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1779	1778	-0.8226	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1758	-1754	3.537	53.42	UV
HRLT M2-M3 Voltage Plus – 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT A3-A4 Voltage Plus – 0	0	N/A	68480	68350	-128.6	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	72050	71930	-121.6	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	69880	70010	122.4	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	71500	71440	-61.48	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	69490	69440	-44.79	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	70680	70630	-46.59	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-68820	-68720	103.1	2100	UV
HRLT A3-A4 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT A4-A5 Voltage Plus – 0	0	N/A	68670	68550	-121.7	2100	UV
HRLT A4-A5 Voltage Plus – 1	0	N/A	72320	72160	-156.4	2100	UV
HRLT A4-A5 Voltage Plus – 2	0	N/A	70130	70250	121.6	2100	UV
HRLT A4-A5 Voltage Plus – 3	0	N/A	71730	71670	-59.21	2100	UV
HRLT A4-A5 Voltage Plus – 4	0	N/A	69690	69640	-48.80	2100	UV
HRLT A4-A5 Voltage Plus – 5	0	N/A	70870	70840	-33.01	2100	UV
HRLT A4-A5 Voltage Plus – 6	0	N/A	-69070	-68980	97.95	2100	UV
HRLT A4-A5 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT A5-A6 Voltage Plus – 0	0	N/A	68430	68300	-128.0	2100	UV
HRLT A5-A6 Voltage Plus – 1	0	N/A	72180	72010	-166.4	2100	UV
HRLT A5-A6 Voltage Plus – 2	0	N/A	69950	70070	122.4	2100	UV
HRLT A5-A6 Voltage Plus – 3	0	N/A	71520	71450	-63.00	2100	UV
HRLT A5-A6 Voltage Plus – 4	0	N/A	69440	69400	-46.80	2100	UV
HRLT A5-A6 Voltage Plus – 5	0	N/A	70620	70580	-39.48	2100	UV
HRLT A5-A6 Voltage Plus – 6	0	N/A	-68940	-68840	98.81	2100	UV
HRLT A5-A6 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VTP

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT Torpedo-M0 Voltage – 0	0	N/A	-68060	-67930	129.4	2100	UV
HRLT Torpedo-M0 Voltage – 1	0	N/A	-71910	-71770	144.3	2100	UV
HRLT Torpedo-M0 Voltage – 2	0	N/A	-69760	-69870	-111.8	2100	UV
HRLT Torpedo-M0 Voltage – 3	0	N/A	-71440	-71350	88.98	2100	UV
HRLT Torpedo-M0 Voltage – 4	0	N/A	-69480	-69410	61.92	2100	UV
HRLT Torpedo-M0 Voltage – 5	0	N/A	-70670	-70610	55.64	2100	UV
HRLT Torpedo-M0 Voltage – 6	0	N/A	68660	68530	-124.5	2100	UV
HRLT Torpedo-M0 Voltage – 7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VBD

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT Bridle#9-M0 Voltage – 0	0	N/A	-68100	-67980	116.8	2100	UV
HRLT Bridle#9-M0 Voltage – 1	0	N/A	-72090	-71940	146.9	2100	UV
HRLT Bridle#9-M0 Voltage – 2	0	N/A	-69930	-70040	-114.2	2100	UV
HRLT Bridle#9-M0 Voltage – 3	0	N/A	-71570	-71500	67.99	2100	UV
HRLT Bridle#9-M0 Voltage – 4	0	N/A	-69550	-69510	44.68	2100	UV
HRLT Bridle#9-M0 Voltage – 5	0	N/A	-70730	-70680	49.45	2100	UV
HRLT Bridle#9-M0 Voltage – 6	0	N/A	68830	68710	-118.7	2100	UV
HRLT Bridle#9-M0 Voltage – 7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT ISO

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT Source Current Plus – 0	0	N/A	284.1	283.7	-0.3859	8.520	UA
HRLT Source Current Plus – 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array – B Wellsite Calibration – HRLT MV

Before: 10-Sep-2012 1:27 After: 10-Sep-2012 14:39

HRLT Vertical Voltage PI – 0	0	N/A	-320.7	-319.9	0.8388	9.681	UV
HRLT Vertical Voltage PI – 1	0	N/A	-327.1	-326.2	0.9191	9.681	UV

HRLT Vertical Voltage PI – 2	0	N/A	-315.7	-315.9	-0.2195	9.681	UV
HRLT Vertical Voltage PI – 3	0	N/A	-320.3	-319.7	0.6447	9.681	UV
HRLT Vertical Voltage PI – 4	0	N/A	-309.7	-309.3	0.4538	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	-330.0	-329.5	0.4847	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	330.4	329.6	-0.7355	9.681	UV
HRLT Vertical Voltage PI – 7	0	N/A	-322.7	-322.7	0	9.681	UV

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 26-Jul-2012 16:07 Before: 10-Sep-2012 1:31 After: 10-Sep-2012 14:44

Na 511 Peak Loc	40.00	38.55	38.56	38.60	0.03584	1.000	
Na 511 Peak Res	15.50	14.93	14.81	14.76	-0.05429	2.000	%
High Voltage	1150	1063	1053	1065	11.39	N/A	V
Na 1785 Peak Loc	142.6	139.0	139.2	138.6	-0.5731	7.000	
Na 1785 Peak Res	8.500	8.686	7.444	7.603	0.1590	2.000	%
Temperature	15.50	31.24	27.32	30.59	3.268	N/A	DEGC
Na Count Rate	45.00	35.45	34.94	32.38	-2.553	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 26-Jul-2012 16:07 Before: 10-Sep-2012 1:31 After: 10-Sep-2012 14:44

Na 511 Peak Loc	40.00	38.67	38.61	38.63	0.02083	1.000	
Na 511 Peak Res	15.50	15.39	15.14	14.92	-0.2206	2.000	%
High Voltage	1150	1086	1076	1088	11.15	N/A	V
Na 1785 Peak Loc	142.6	138.0	138.3	138.3	0.08160	7.000	
Na 1785 Peak Res	8.500	9.003	8.077	7.447	-0.6299	2.000	%
Temperature	15.50	31.26	27.40	32.47	5.069	N/A	DEGC
Na Count Rate	45.00	35.54	35.02	32.47	-2.546	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2

Master: 26-Jul-2012 16:07 Before: 10-Sep-2012 1:31 After: 10-Sep-2012 14:44

Coincidence Count Rate Ratio	1.000	0.9952	0.9972	0.9963	-0.0008773	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 26-Jul-2012 16:02

Na 511 Peak Set Point	40.00	40.00	--	--	--	--	
Th Peak Loc	209.6	208.3	--	--	--	--	
Th Peak Res	7.000	7.367	--	--	--	--	%
Background Count Rate	142.5	120.1	--	--	--	--	CPS
Gain Ratio	1.000	1.028	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 26-Jul-2012 16:02

Na 511 Peak Set Point	40.00	40.00	--	--	--	--	
Th Peak Loc	209.6	207.5	--	--	--	--	
Th Peak Res	7.000	7.217	--	--	--	--	%
Background Count Rate	142.5	119.6	--	--	--	--	CPS
Gain Ratio	1.000	1.021	--	--	--	--	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 10-Sep-2012 1:29

EDTC Z-Axis Acceleration	9.810	N/A	9.786	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 10-Sep-2012 1:29 After: 10-Sep-2012 14:39

Gamma Ray (Jig – Bkg)	163.5	N/A	163.5	161.6	-1.927	14.87	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	163.1	-1.944	15.00	GAPI

The GLS-VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT-B Water Temperature 26.0 DEGC.
Thermal Housing Size 3.374 IN.
NSR-F serial number 5229

High resolution Integrated Logging Tool-DTS / Equipment Identification







Primary Equipment:




HILT high-Resolution Mechanical Sonde	HRMS – H	3893
HILT Rxo Gamma-ray Device	HRGD – H	3901
HILT Micro Cylindrically Focused Log Dev	MCFL – H	3901
GR Logging Source	GLS – VJ	3753
HILT High Res. Control Cartridge	HRCC – H	3904
HILT Gamma-Ray Neutron Sonde-DTS	HGNS – H	3821
HGNS Gamma-Ray Device	HGR –	




Auxiliary Equipment:
Neutron Calibration Tank
Gamma Source Radioactive
HGNS Housing




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GSR – U/Y
HGNH –



2951

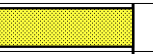

High resolution Integrated Logging Tool–DTS Wellsite Calibration														
Stab Measurement Summary														
Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value	Phase	LS Window Ratio			Value
Before				0.7445	Before				0.4893	Before				0.3024
	0.7065 (Minimum)	0.7437 (Nominal)	0.7809 (Maximum)		0.4643 (Minimum)	0.4887 (Nominal)	0.5132 (Maximum)			0.2862 (Minimum)	0.3012 (Nominal)	0.3163 (Maximum)		
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value	Phase	LS Window Sum CPS			Value
Before				27400	Before				11370	Before				1275
	26070 (Minimum)	27440 (Nominal)	28810 (Maximum)		10820 (Minimum)	11390 (Nominal)	11960 (Maximum)			1210 (Minimum)	1273 (Nominal)	1337 (Maximum)		
Before: 10–Sep–2012 1:32														



High resolution Integrated Logging Tool–DTS Wellsite Calibration														
Photo–multiplier High Voltages Calibrations														
Phase	BS PM High Voltage (Command) V			Value	Phase	SS PM High Voltage (Command) V			Value	Phase	LS PM High Voltage (Command) V			Value
Before				1248	Before				1430	Before				1267
	1150 (Minimum)	1250 (Nominal)	1350 (Maximum)		1330 (Minimum)	1430 (Nominal)	1530 (Maximum)			1168 (Minimum)	1268 (Nominal)	1368 (Maximum)		
Before: 10–Sep–2012 1:32														

High resolution Integrated Logging Tool–DTS Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			10.61	Before			8.852	Before			8.168
	9.625 (Minimum)	10.62 (Nominal)	11.62 (Maximum)		7.716 (Minimum)	8.716 (Nominal)	9.716 (Maximum)		7.049 (Minimum)	8.049 (Nominal)	9.049 (Maximum)
Before: 10–Sep–2012 1:32											



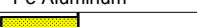
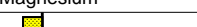
High resolution Integrated Logging Tool–DTS Wellsite Calibration														
MCFL Calibration														
Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3863	Before				3793	Before				3835
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			
Before: 10–Sep–2012 1:34														

High resolution Integrated Logging Tool–DTS Wellsite Calibration								
HILT Caliper Calibration								
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value	
Before			7.973	Before			12.18	
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)	
Before: 4–Sep–2012 16:25								



High resolution Integrated Logging Tool–DTS Wellsite Calibration								
Detector Calibration								
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig – Bkgd) GAPI		Value	
Before			4.349	Before			176.5	
After	NOT DONE		N/A	After	NOT DONE		N/A	
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)	
Before: 4–Sep–2012 16:07 After: Calibration not done								

High resolution Integrated Logging Tool–DTS Wellsite Calibration								
Zero Measurement								
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value	
Master			27.48	Master			29.17	

High resolution Integrated Logging Tool-DTS Wellsite Calibration																	
Ratio Measurement																	
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value	Phase	CNTC/CFTC (Tank)			Value			
Master	<div>EXCEEDS LIMIT</div>			2645	Master	<div>EXCEEDS LIMIT</div>			1108	Master	<div></div>			2.388			
4700 (Minimum)				5800 (Nominal)	6900 (Maximum)	1900 (Minimum)				2400 (Nominal)	2900 (Maximum)	2.120 (Minimum)				2.159 (Nominal)	2.540 (Maximum)
Master: 6-Jul-2012 15:01																	

High resolution Integrated Logging Tool—DTS Master Calibration							
Inversion results							
Phase	Rho Aluminum G/C3		Value	Phase	Rho Magnesium G/C3		Value
Master			2.595	Master			1.689
	2.586 (Minimum)	2.596 (Nominal)	2.606 (Maximum)		1.676 (Minimum)	1.686 (Nominal)	1.696 (Maximum)
Phase	Pe Aluminum		Value	Phase	Pe Magnesium		Value
Master			2.520	Master			2.635
	2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)		2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)
Master: 18–Aug–2012 12:28							

High resolution Integrated Logging Tool-DTS Master Calibration														
Deviation Summary														
Phase	BS Average Deviation %			Value	Phase	SS Average Deviation %			Value	Phase	LS Average Deviation %			Value
Master	<div><div></div></div>			0.3647	Master	<div><div></div></div>			0.6524	Master	<div><div></div></div>			0.7838
-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)					-1.000 (Minimum) 0 (Nominal) 1.000 (Maximum)					-1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)				
Phase	BS Max Deviation %			Value	Phase	SS Max Deviation %			Value	Phase	LS Max Deviation %			Value
Master	<div><div></div></div>			1.386	Master	<div><div></div></div>			2.044	Master	<div><div></div></div>			2.044
-1.600 (Minimum) 0 (Nominal) 1.600 (Maximum)					-2.500 (Minimum) 0 (Nominal) 2.500 (Maximum)					-3.500 (Minimum) 0 (Nominal) 3.500 (Maximum)				
Master: 18-Aug-2012 12:28														

High resolution Integrated Logging Tool—DTS Master Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				27.48	Master				29.17
	5.000 (Minimum)	27.48 (Nominal)	40.00 (Maximum)			5.000 (Minimum)	29.17 (Nominal)	40.00 (Maximum)	
Master: 6-Jul-2012 15:01									

High resolution Integrated Logging Tool–DTS Master Calibration									
Tank Measurement									
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value
Master	EXCEEDS LIMIT			2645	Master	EXCEEDS LIMIT			1108
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)			1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:

HRLT Sonde

HRLS – B

855

Auxiliary Equipment:

HRLT lower Housing

HRLH – B

872

HRLT Lower Cartridge

HRLC – B

866

HRLT upper Housing

HRUH – B

857



HRLT Upper Cartridge

















HRUC – B

















857

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M01						
Idx	Phase	HRLT M0–M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		–318.5	–322.7	–280.7	–379.7
	After		–317.9			
1	Before		–332.3	–322.7	–280.7	–379.7
	After		–331.6			
2	Before		–321.8	–322.7	–280.7	–379.7
	After		–322.3			
3	Before		–327.8	–322.7	–280.7	–379.7
	After		–327.4			
4	Before		–320.0	–322.7	–280.7	–379.7
	After		–319.7			
5	Before		–325.1	–322.7	–280.7	–379.7
	After		–324.9			
6	Before		322.7	322.7	379.7	280.7
	After		322.2			
7	Before		–322.7	–322.7	–280.7	–379.7
	After		–322.7			
(Minimum) (Nominal) (Maximum)						
Before: 10–Sep–2012 1:27						
After: 10–Sep–2012 14:39						

















High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1755	1781	2095	1549
	After		1752			
1	Before		1833	1781	2095	1549
	After		1829			
2	Before		1770	1781	2095	1549
	After		1773			
3	Before		1804	1781	2095	1549
	After		1802			
4	Before		1762	1781	2095	1549
	After		1760			
5	Before		1792	1781	2095	1549
	After		1790			
6	Before		–1787	–1781	–1549	–2095
	After		–1784			

7	Before		1781	2095	1549
	After		1781		
(Minimum) (Nominal) (Maximum)					
Before: 10-Sep-2012 1:27					
After: 10-Sep-2012 14:39					

















High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1732	1781	2095	1549
	After		1729			
1	Before		1815	1781	2095	1549
	After		1811			
2	Before		1755	1781	2095	1549
	After		1758			
3	Before		1794	1781	2095	1549
	After		1792			
4	Before		1748	1781	2095	1549
	After		1747			
5	Before		1779	1781	2095	1549
	After		1778			
6	Before		-1758	-1781	-1549	-2095
	After		-1754			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 10-Sep-2012 1:27						
After: 10-Sep-2012 14:39						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68480	70000	82360	60900
	After		68350			
1	Before		72050	70000	82360	60900
	After		71930			
2	Before		69880	70000	82360	60900
	After		70010			
3	Before		71500	70000	82360	60900
	After		71440			
4	Before		69490	70000	82360	60900
	After		69440			
5	Before		70680	70000	82360	60900
	After		70630			
6	Before		-68820	-70000	-60900	-82360
	After		-68720			
7	Before		70000	70000	82360	60900
	After		70000			

















	(Minimum)	(Nominal)	(Maximum)		
Before: 10-Sep-2012 1:27					
After: 10-Sep-2012 14:39					

















High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68670	70000	82360	60900
	After		68550			
1	Before		72320	70000	82360	60900
	After		72160			
2	Before		70130	70000	82360	60900
	After		70250			
3	Before		71730	70000	82360	60900
	After		71670			
4	Before		69690	70000	82360	60900
	After		69640			
5	Before		70870	70000	82360	60900
	After		70840			
6	Before		-69070	-70000	-60900	-82360
	After		-68980			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 10-Sep-2012 1:27					
After: 10-Sep-2012 14:39					

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68430	70000	82360	60900
	After		68300			
1	Before		72180	70000	82360	60900
	After		72010			
2	Before		69950	70000	82360	60900
	After		70070			
3	Before		71520	70000	82360	60900
	After		71450			
4	Before		69440	70000	82360	60900
	After		69400			
5	Before		70620	70000	82360	60900
	After		70580			
6	Before		-68940	-70000	-60900	-82360
	After		-68840			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 10-Sep-2012 1:27					
After: 10-Sep-2012 14:39					

HRLT MV						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.1	284.0	334.1	247.0
	After		283.7			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
(Minimum) (Nominal) (Maximum)						
Before: 10-Sep-2012 1:27						
After: 10-Sep-2012 14:39						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.7	-322.7	-280.7	-379.7
	After		-319.9			
1	Before		-327.1	-322.7	-280.7	-379.7
	After		-326.2			
2	Before		-315.7	-322.7	-280.7	-379.7
	After		-315.9			
3	Before		-320.3	-322.7	-280.7	-379.7
	After		-319.7			
4	Before		-309.7	-322.7	-280.7	-379.7
	After		-309.3			
5	Before		-330.0	-322.7	-280.7	-379.7
	After		-329.5			
6	Before		330.4	322.7	379.7	280.7
	After		329.6			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 10-Sep-2012 1:27						
After: 10-Sep-2012 14:39						

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:
HNGC Cartridge

HNGC – B

573

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:
HNGS Sonde

HNGS – BA

309

Auxiliary Equipment:
HNGS Sonde Housing
Gamma Source Radioactive

HNSH – BA
GSR – U

314

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value			
Master	<div><div></div></div>		38.55	Master	<div><div></div></div>		14.93	Master	<div><div></div></div>		1063			
Before	<div><div></div></div>		38.56	Before	<div><div></div></div>		14.81	Before	<div><div></div></div>		1053			
After	<div><div></div></div>		38.60	After	<div><div></div></div>		14.76	After	<div><div></div></div>		1065			
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)			12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)			850.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value			
Master	<div><div></div></div>		139.0	Master	<div><div></div></div>		8.686	Master	<div><div></div></div>		31.24			
Before	<div><div></div></div>		139.2	Before	<div><div></div></div>		7.444	Before	<div><div></div></div>		27.32			
After	<div><div></div></div>		138.6	After	<div><div></div></div>		7.603	After	<div><div></div></div>		30.59			
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)			7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)			-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS		Value											
Master	<div><div></div></div>		35.45											
Before	<div><div></div></div>		34.94											
After	<div><div></div></div>		32.38											
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)		

Master: 26-Jul-2012 16:07

Before: 10-Sep-2012 1:31

After: 10-Sep-2012 14:44

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check




Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master	<div><div></div></div>		38.67	Master	<div><div></div></div>		15.39	Master	<div><div></div></div>		1086
Before	<div><div></div></div>		38.61	Before	<div><div></div></div>		15.14	Before	<div><div></div></div>		1076
After	<div><div></div></div>		38.63	After	<div><div></div></div>		14.92	After	<div><div></div></div>		1088
37.50 (Minimum)40.00 (Nominal)43.50 (Maximum)				12.00 (Minimum)15.50 (Nominal)19.00 (Maximum)				850.0 (Minimum)1150 (Nominal)1600 (Maximum)			
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master	<div><div></div></div>		138.0	Master	<div><div></div></div>		9.003	Master	<div><div></div></div>		31.26
Before	<div><div></div></div>		138.3	Before	<div><div></div></div>		8.077	Before	<div><div></div></div>		27.40
After	<div><div></div></div>		138.3	After	<div><div></div></div>		7.447	After	<div><div></div></div>		32.47
135.0 (Minimum)142.6 (Nominal)150.3 (Maximum)				7.000 (Minimum)8.500 (Nominal)11.00 (Maximum)				−28.89 (Minimum)15.50 (Nominal)60.00 (Maximum)			
Phase	Na Count Rate CPS		Value								
Master	<div><div></div></div>		35.54								
Before	<div><div></div></div>		35.02								
After	<div><div></div></div>		32.47								
10.00 (Minimum)45.00 (Nominal)100.0 (Maximum)											

Master: 26-Jul-2012 16:07

Before: 10-Sep-2012 1:31

After: 10-Sep-2012 14:44

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9952
Before		0.9972
After		0.9963
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		






Master: 26-Jul-2012 16:07

Before: 10-Sep-2012 1:31

After: 10-Sep-2012 14:44

Hostile Natural Gamma Ray Sonde Master Calibration






Detector 1 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		40.00	Master		208.3	Master		7.367
38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)			201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)			5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)		
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master		120.1	Master		1.028			
10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)					

Master: 26-Jul-2012 16:02

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		40.00	Master		207.5	Master		7.217
38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)			201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)			5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)		
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master		119.6	Master		1.021			
10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)					

Master: 26-Jul-2012 16:02

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector

EDTG – A/B

77415

Enhanced DTS Cartridge

EDTC – B

8470

Auxiliary Equipment:


EDTC Housing

EDTH – B

8466

Enhanced DTS Cartridge Wellsite Calibration




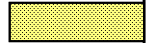


EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.786
9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)		

Before: 10-Sep-2012 1:29

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		2.743	Before		163.5	Before		165.0
After		4.343	After		161.6	After		163.1
0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			148.7 (Minimum) 163.5 (Nominal) 178.4 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		

Before: 10-Sep-2012 1:29

After: 10-Sep-2012 14:39

Company: JAMSTEC

Schlumberger

Well: C0020A

Field: C0020

Pref. Aomori

Country: Japan

Gamma Ray
GR plot
1:200