Schlumberger

Company: University Of Utah

Well: FORGE 78B-32

Field: None

County: Beaver Country:

Temperature Log

Gamma Ray

County: Beaver
Field: None
Location: Lat: 38.500171, Long: -112.88221
Well: FORGE 78B-32
Company: University Of Utah

Location: Lat: 38.500171, Long: -112.88221

Elev.: K.B. 5565.50 ft
G.L. 5536.00 ft
D.F.

Permanent Datum: Ground Level Elev.: 5536.00 f
Log Measured From: Kelly Bushing 29.50 ft above Perm.Datum
Drilling Measured From: Kelly Bushing

API Serial No.	Max.Hole Deviation	Longitude:	Latitude:
NRC 42-00090-03	0 deg	112° 52' 55.956" W	38° 30' 0.616" N

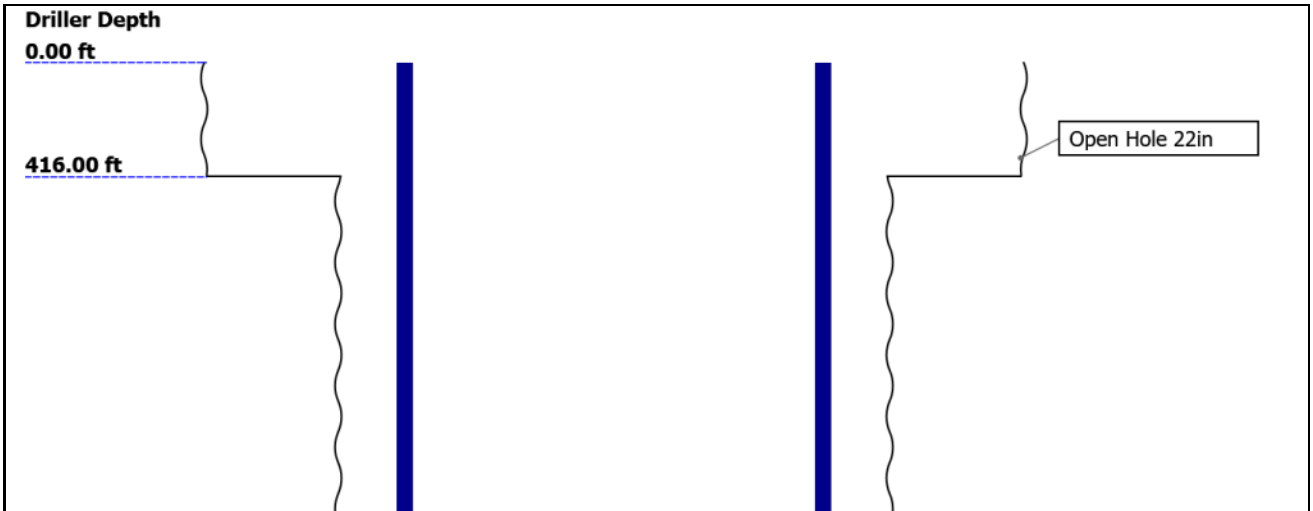
Logging Date			19-Jul-2021		19-Jul-2021		Logging Date		
Run Number			1A		2A		Run Number		
Depth Driller			8540.00 ft		8540.00 ft		Depth Driller		
Schlumberger Depth			8540.00 ft		8540.00 ft		Schlumberger Depth		
Bottom Log Interval							Bottom Log Interval		
Top Log Interval							Top Log Interval		
Casing Driller Size @ Depth			11.75 in @ 2989.00 ft		11.75 in @ 2989.00 ft		Casing Driller Size @ Depth		
Casing Schlumberger			2988 ft		2988 ft		Casing Schlumberger		
Bit Size			8.75 in		8.75 in		Bit Size		
Type Fluid In Hole			Water		Water		Type Fluid In Hole		
MUD	Density	Viscosity	8.3 lbm/gal		8.3 lbm/gal		MUD	Density	Viscosity
	Fluid Loss	PH						Fluid Loss	PH
	Source of Sample		Active Tank		Active Tank			Source of Sample	
RM @ Meas Temp			0.2 ohm.m @ 68 degF		2.84 ohm.m @ 95 degF		RM @ Meas Temp		
RMF @ Meas Temp			0.15 ohm.m @ 68 degF		2.13 ohm.m @ 95 degF		RMF @ Meas Temp		
RMC @ Meas Temp					4.26 ohm.m @ 95 degF		RMC @ Meas Temp		
Source RMF	RMC			Pressed	Calculated	Calculated	Source RMF	RMC	
RM @ BHT	RMF @ BHT		0.05 @ 320.87	0.03 @ 320.87	0.8 @ 353.72	0.6 @ 353.7	RM @ BHT	RMF @ BHT	
Max Recorded Temperatures			321.43 degF		354.56 degF		Max Recorded Temperatures		
Circulation Stopped	Time		19-Jul-2021	03:00:00	19-Jul-2021	03:00:00	Circulation Stopped	Time	
Logger on Bottom	Time		19-Jul-2021	07:53:00	19-Jul-2021	15:16:00	Logger on Bottom	Time	
Unit Number	Location:		9108	F.Morgan	9108	F.Morgan	Unit Number	Location:	
Recorded By			T.Mozena/C.Stiles/I.Nasir		T.Mozena/C.Stiles/I.Nasir		Recorded By		
Witnessed By			Virgil Welch		Virgil Welch		Witnessed By		

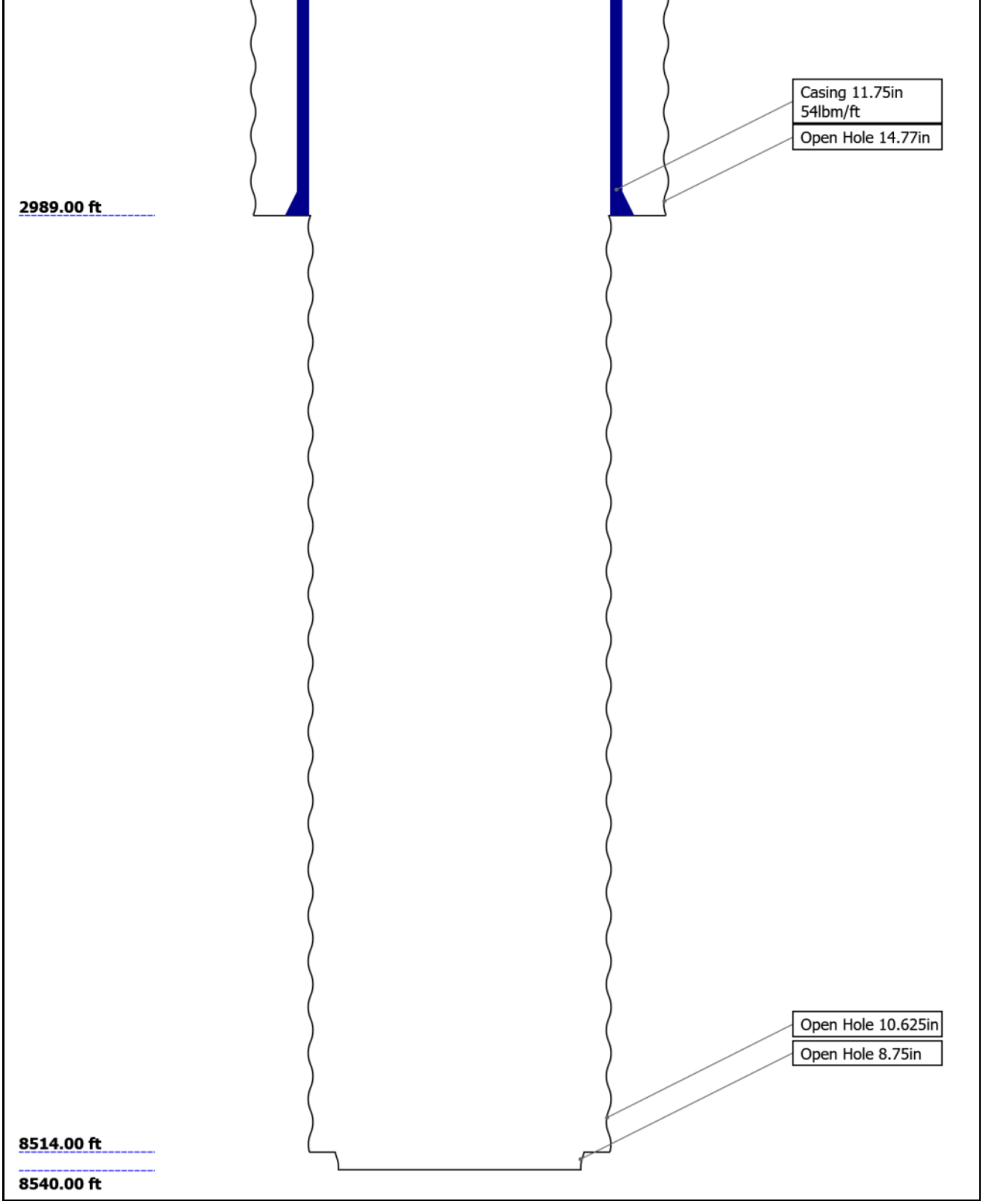
Logging Date			20-Jul-2021				Logging Date		
Run Number			3A				Run Number		
Depth Driller			8540.00 ft				Depth Driller		
Schlumberger Depth			8540.00 ft				Schlumberger Depth		
Bottom Log Interval							Bottom Log Interval		
Top Log Interval							Top Log Interval		
Casing Driller Size @ Depth			11.75 in @ 2989.00 ft				Casing Driller Size @ Depth		
Casing Schlumberger			2988 ft				Casing Schlumberger		
Bit Size			8.75 in				Bit Size		
Type Fluid In Hole			Water				Type Fluid In Hole		
MUD	Density	Viscosity	8.3 lbm/gal				MUD	Density	Viscosity
	Fluid Loss	PH						Fluid Loss	PH
	Source of Sample		Active Tank					Source of Sample	
RM @ Meas Temp			2.84 ohm.m @ 95 degF				RM @ Meas Temp		
RMF @ Meas Temp			2.13 ohm.m @ 95 degF				RMF @ Meas Temp		
RMC @ Meas Temp			4.26 ohm.m @ 95 degF				RMC @ Meas Temp		
Source RMF	RMC		Calculated	Calculated			Source RMF	RMC	
RM @ BHT	RMF @ BHT		0.8 @ 353.72	0.6 @ 353.72			RM @ BHT	RMF @ BHT	
Max Recorded Temperatures			354.56 degF				Max Recorded Temperatures		
Circulation Stopped	Time						Circulation Stopped	Time	
Logger on Bottom	Time						Logger on Bottom	Time	
Unit Number	Location:		9108	F.Morgan			Unit Number	Location:	
Recorded By							Recorded By		
Witnessed By							Witnessed By		

Disclaimer

Contents

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	22	14.77	10.625	8.75		
Top Driller (ft)	0	416	2989	8514		
Top Logger (ft)	0	416	2989	8514		
Bottom Driller (ft)	416	2989	8514	8540		
Bottom Logger (ft)	416	2989	8514	8540		
Casing						
Size (in)	11.75					

Weight (lbm/ft)	54					
Inner Diameter (in)	10.88					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	2989					
Bottom Logger (ft)	2988					

Survey Record

Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	True North	Total Correction Formula :	Magnetic Dec

Rig Location

Latitude :	38° 30' 0.616" N	Longitude :	112° 52' 55.956" W

Tie In Point

Measured Depth:	0.00 ft	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 ft	North Displacement:	0.00 ft	East Displacement:	0.00 ft

Survey Quality Index

28 : Tie-In Point

Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey

Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/ -S (ft)	E/ -W (ft)	Closure (ft)	at Azim (deg)	DLS deg/100ft	Tool Type	QI	CI	DI
1	0.00	0.00	0.00	- - - -	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0

Merge Composite

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[1]:Down	Down	4134.72 ft	7665.52 ft	19-Jul-2021 7:37:21 AM	19-Jul-2021 7:50:07 AM	ON	0.00 ft	Yes
1A	Log[2]:Up	Up	2952.88 ft	8529.53 ft	19-Jul-2021 7:53:53 AM	19-Jul-2021 1:26:07 PM	ON	9.38 ft	Yes
2A	Log[1]:Down	Down	3985.20 ft	8542.78 ft	19-Jul-2021 3:04:28 PM	19-Jul-2021 3:15:50 PM	ON	-3.12 ft	Yes
2A	Log[2]:Up	Up	2858.91 ft	8563.43 ft	19-Jul-2021 3:16:18 PM	19-Jul-2021 6:22:02 PM	ON	3.65 ft	Yes
3A	Log[2]:Down	Down	395.12 ft	8531.82 ft	20-Jul-2021 10:42:34 AM	20-Jul-2021 11:07:54 AM	ON	11.46 ft	Yes
3A	Log[3]:Up	Up	2970.28 ft	8518.54 ft	20-Jul-2021 11:08:28 AM	20-Jul-2021 5:38:29 PM	ON	17.71 ft	Yes

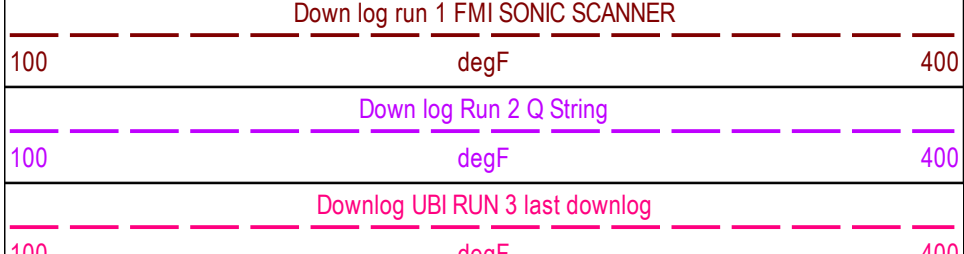
All depths are referenced to toolstring zero

Log

Company:University Of Utah Well:FORGE 78B-32

Merge Composite:S024

Description: Format: Log (TempLog) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Jul-2021 14:14:49



Cable Tension (TENS)		
10000	lbf	0

Gamma Ray (EHGR_EDTC).1 EDTC-B		
0	gAPI	150

Gamma Ray (ECGR_EDTC).2 EDTC-B		
0	gAPI	150

UP log Sonic Scanner FMI run 1		
100	degF	400

UP log UBI RUN 3 Last run		
100	degF	400

UP LOG RUN 2 Q STRING PEX		
100	degF	400

360
370
380
390
400
410
420
430
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450
460
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500
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530
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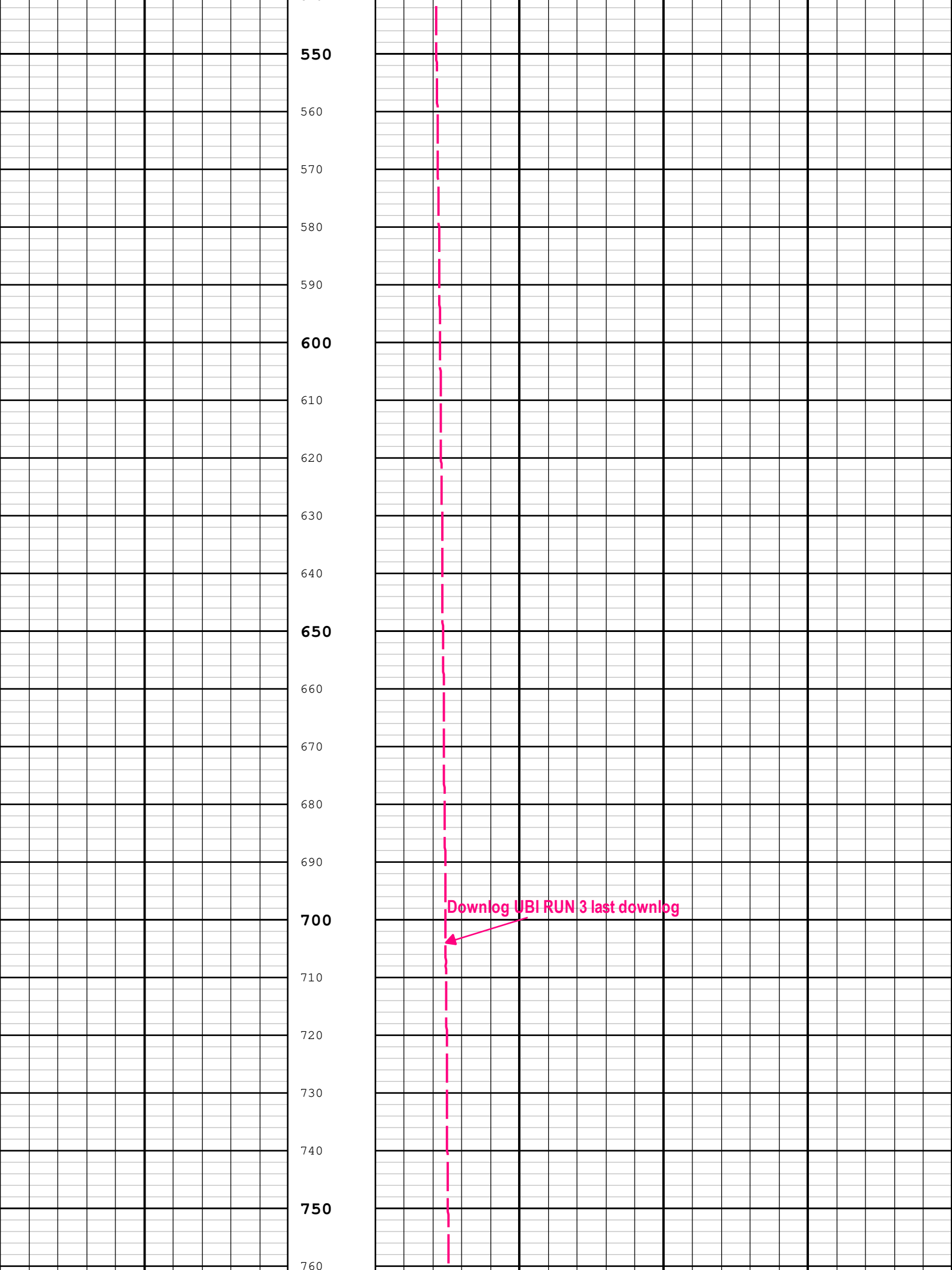
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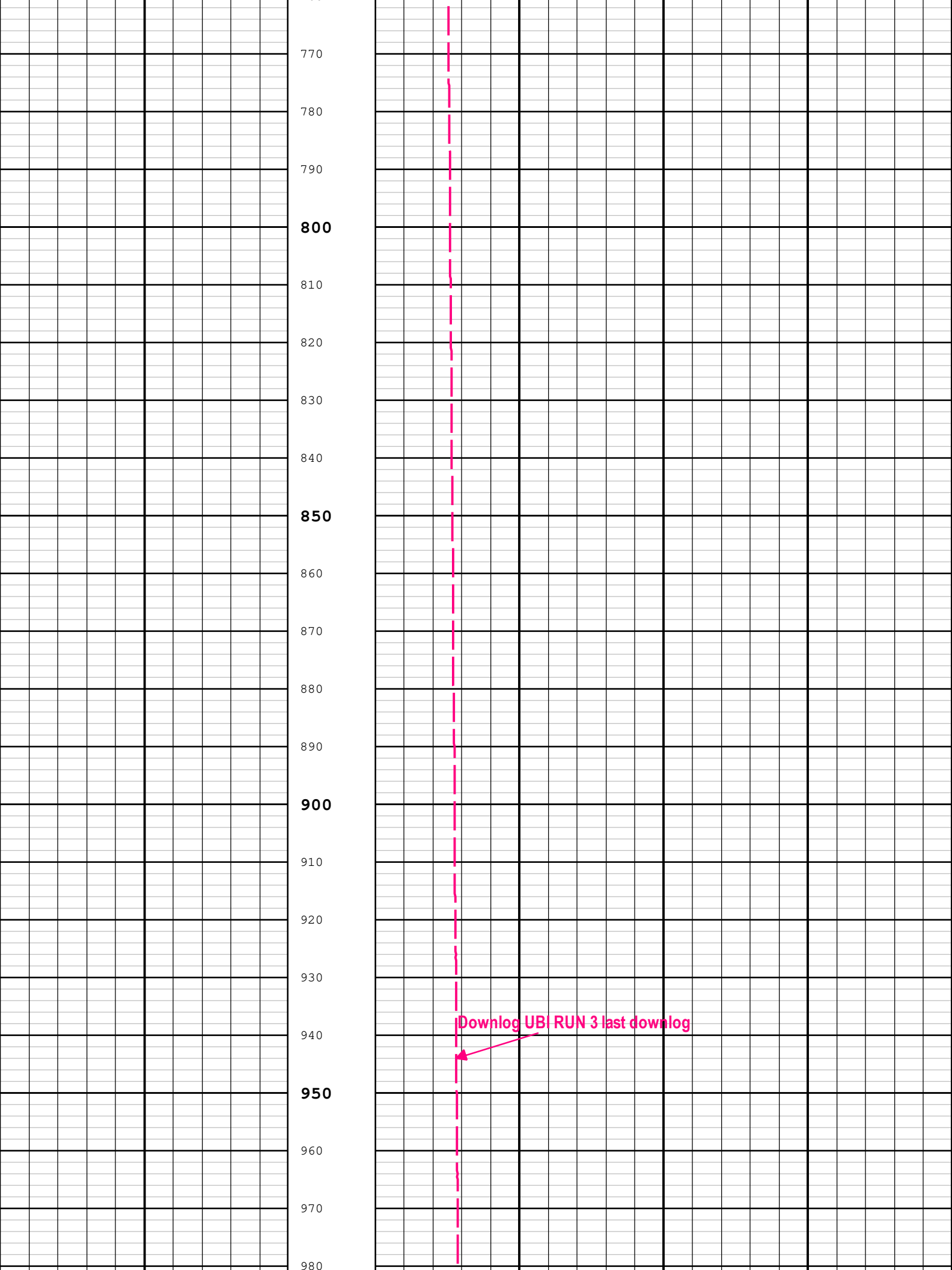
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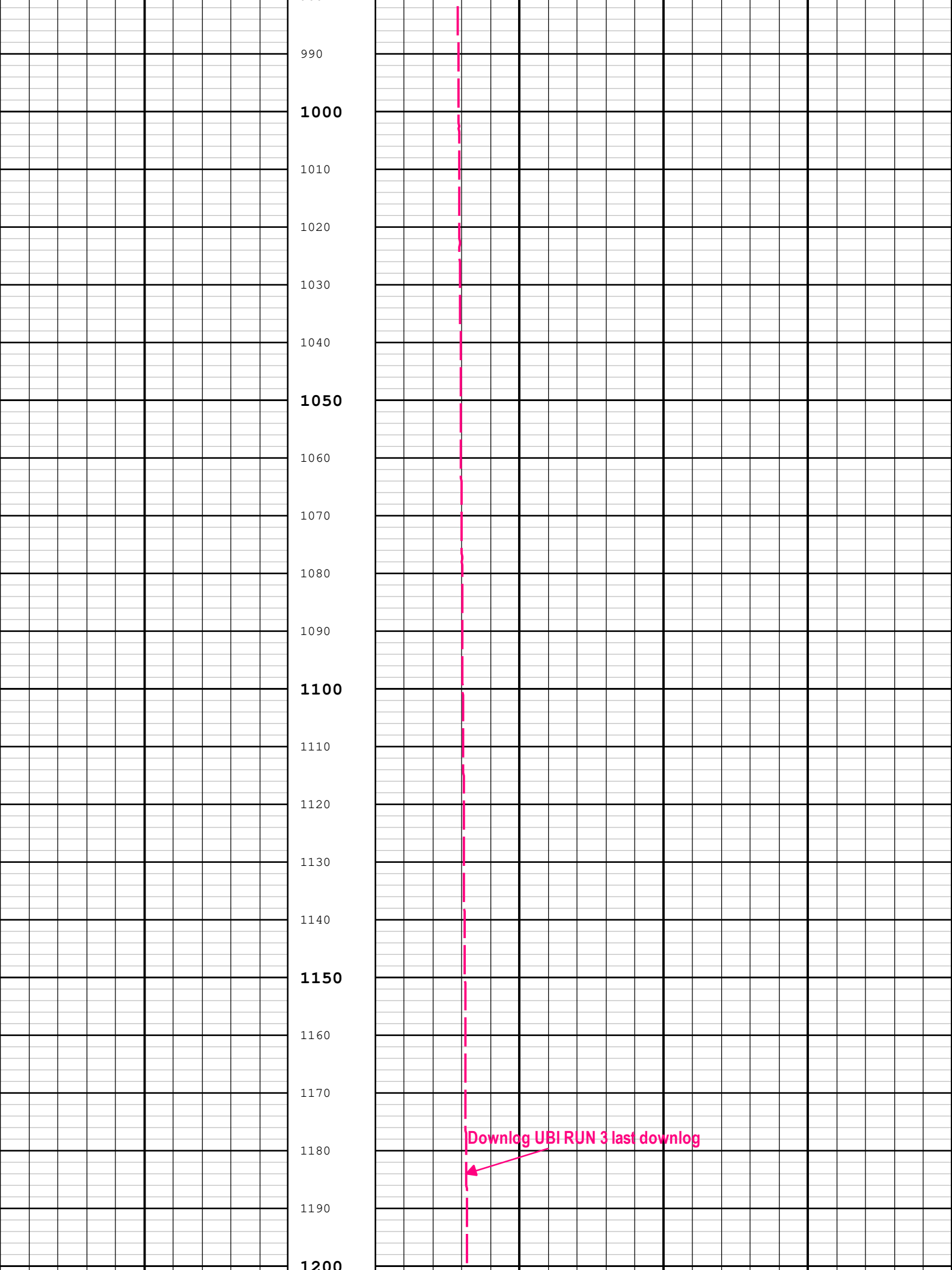
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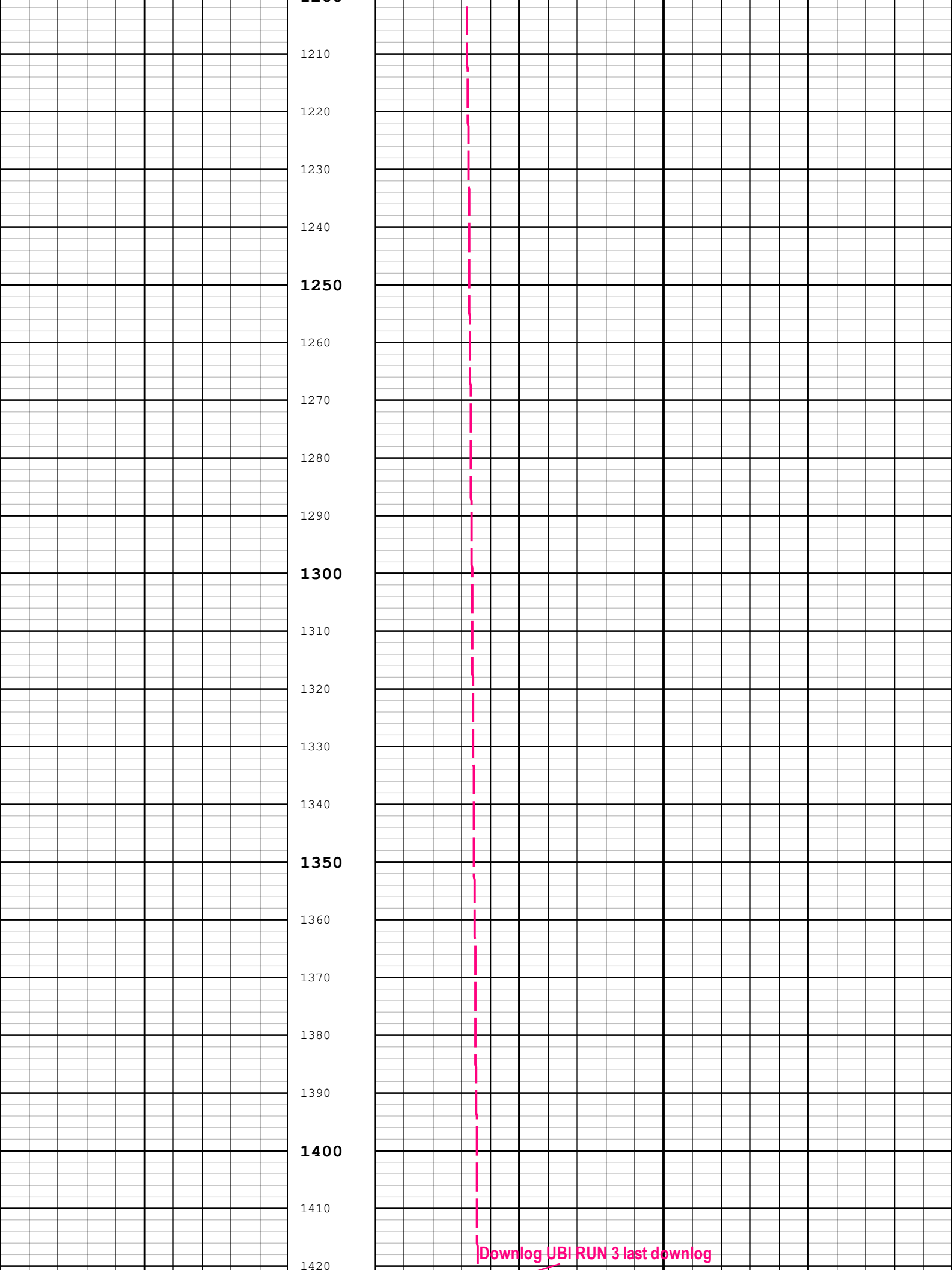
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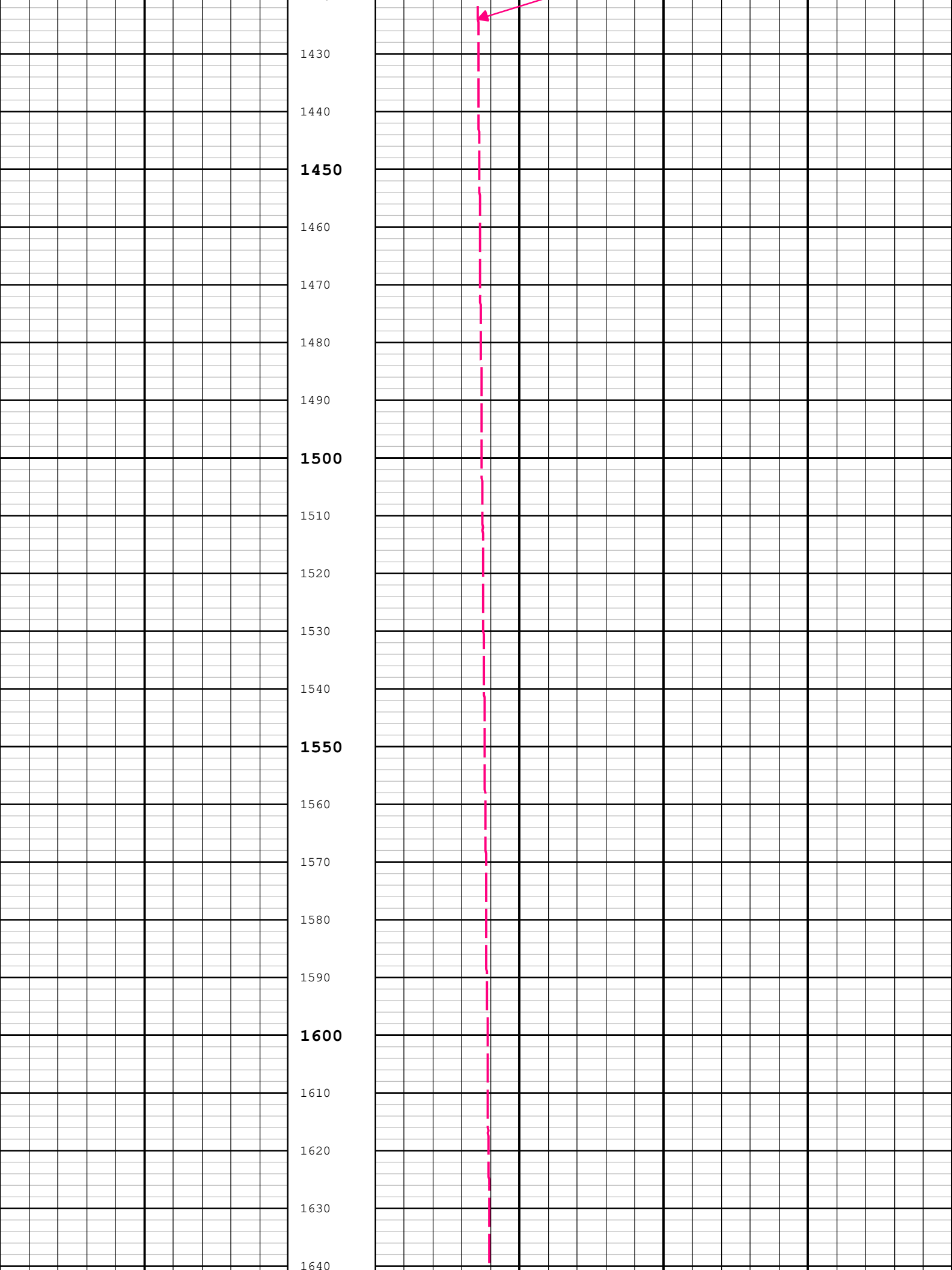
Downlog UBI RUN 3 last downlog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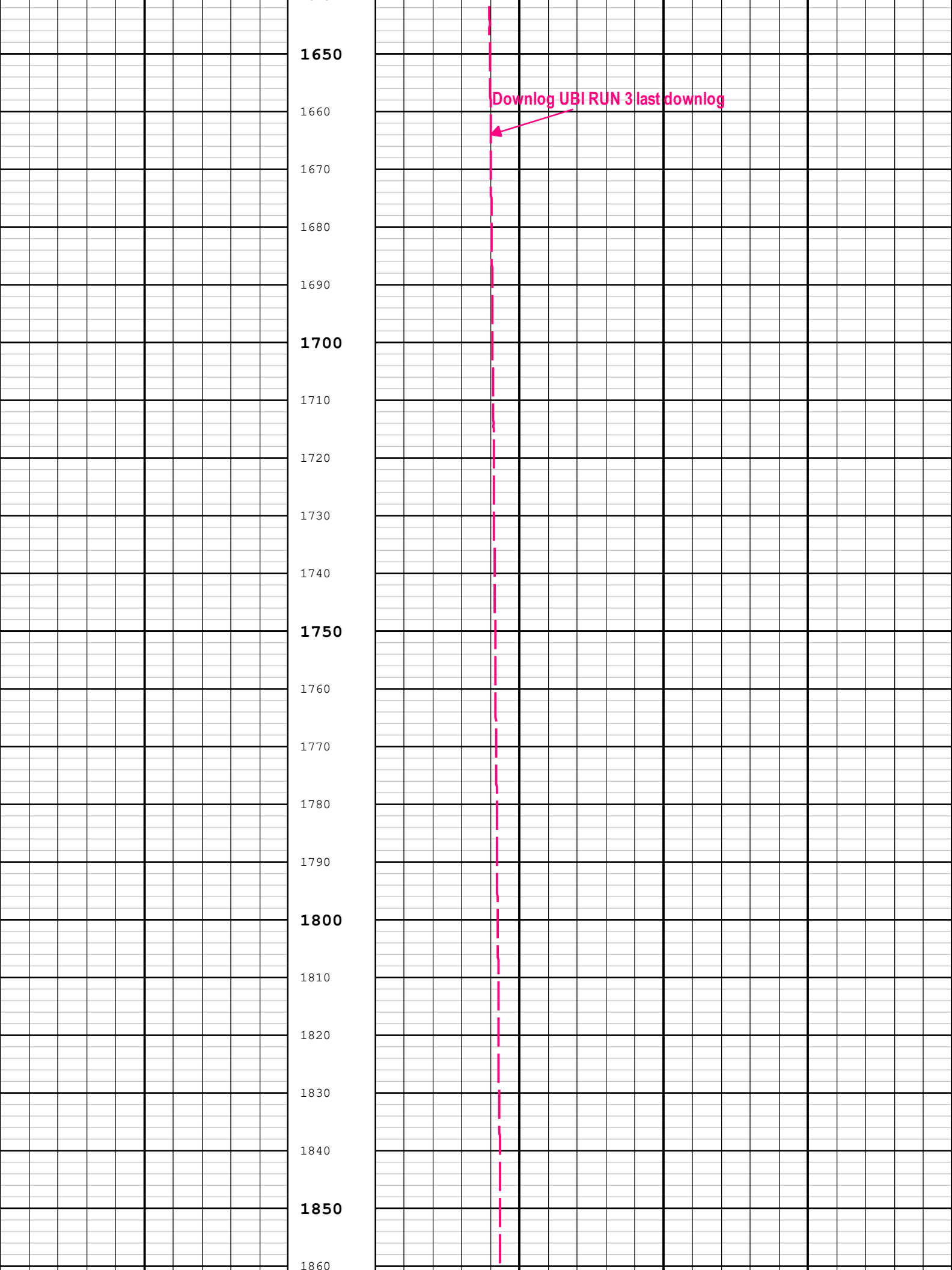
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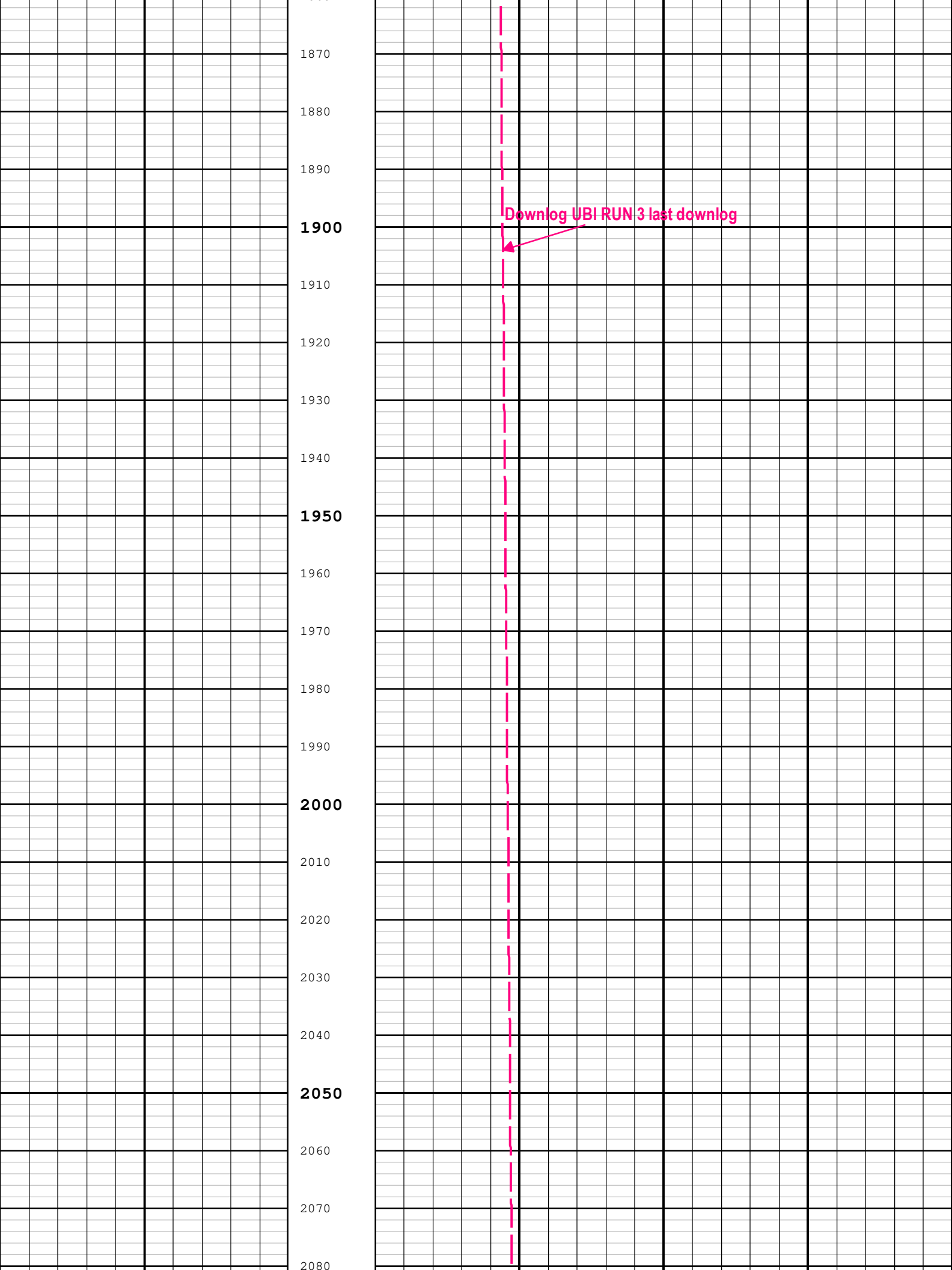
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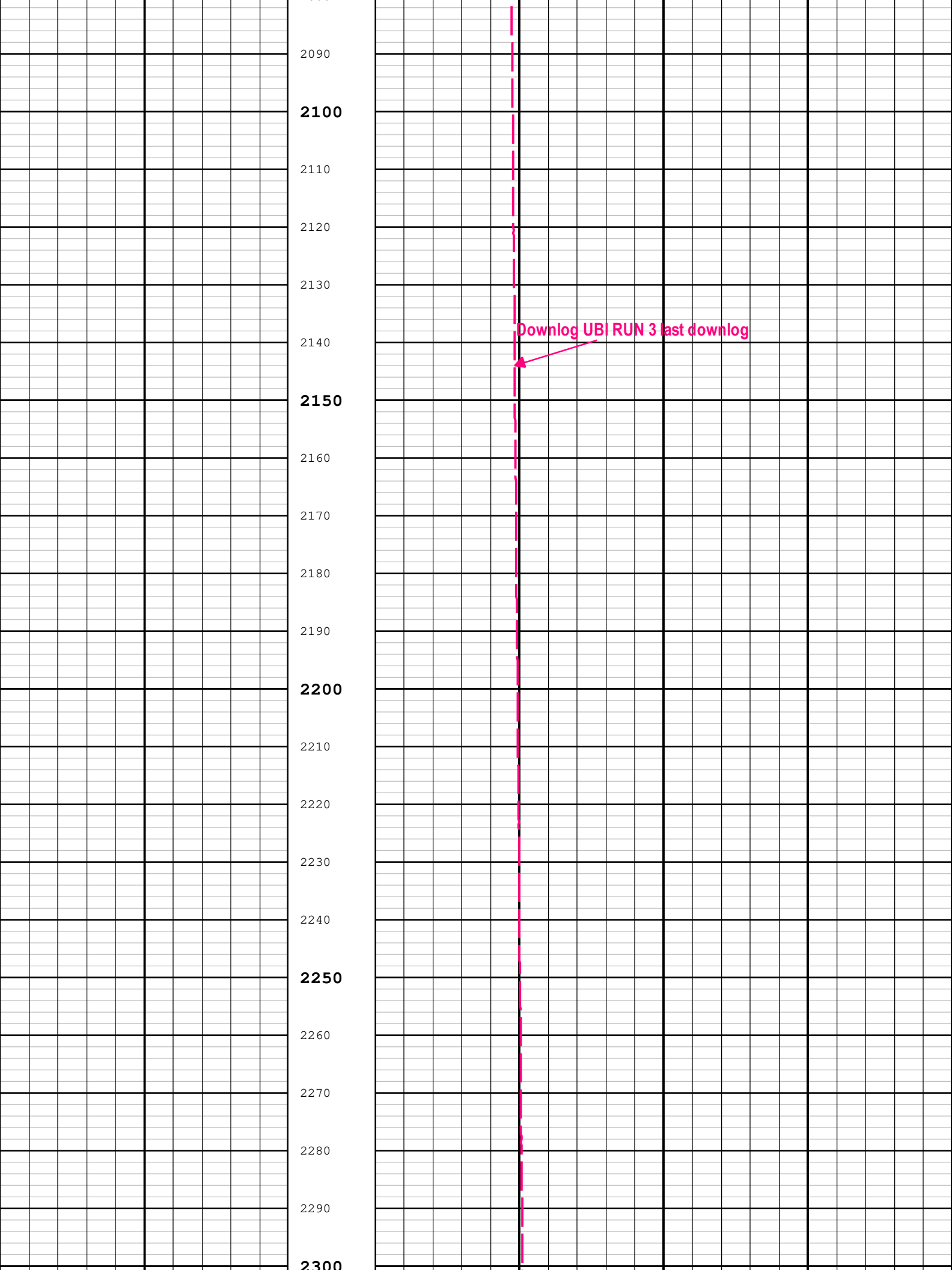
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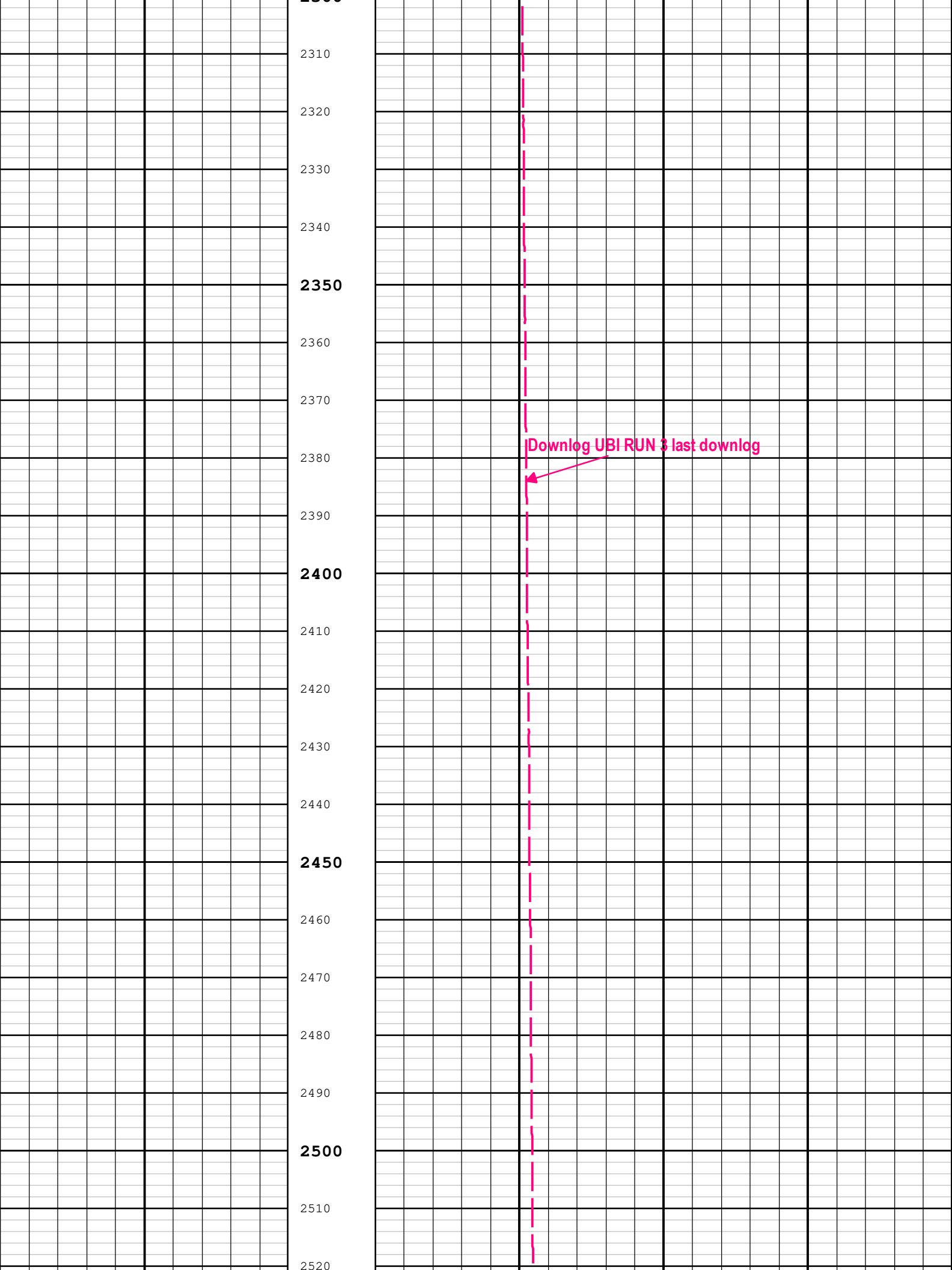
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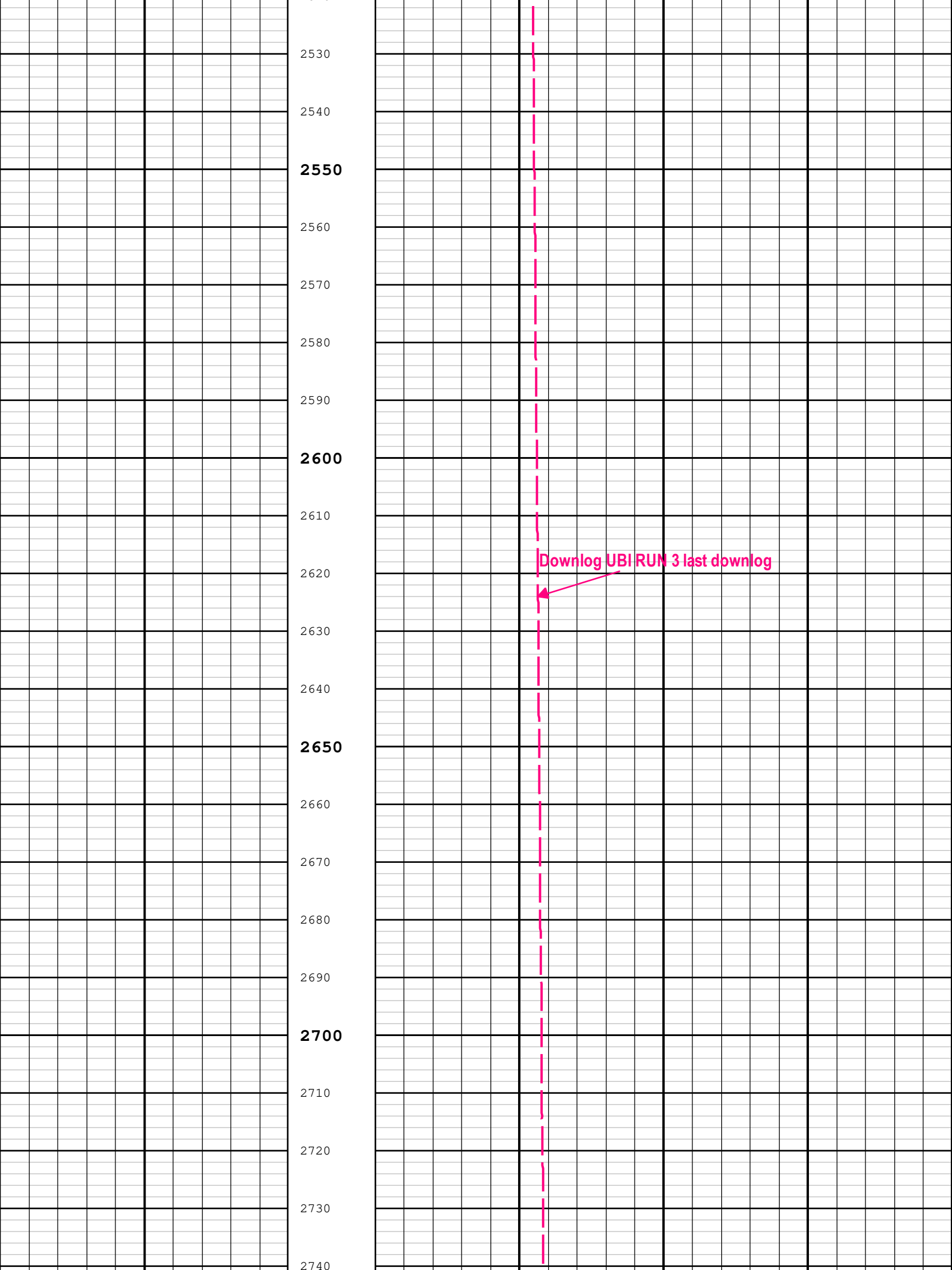
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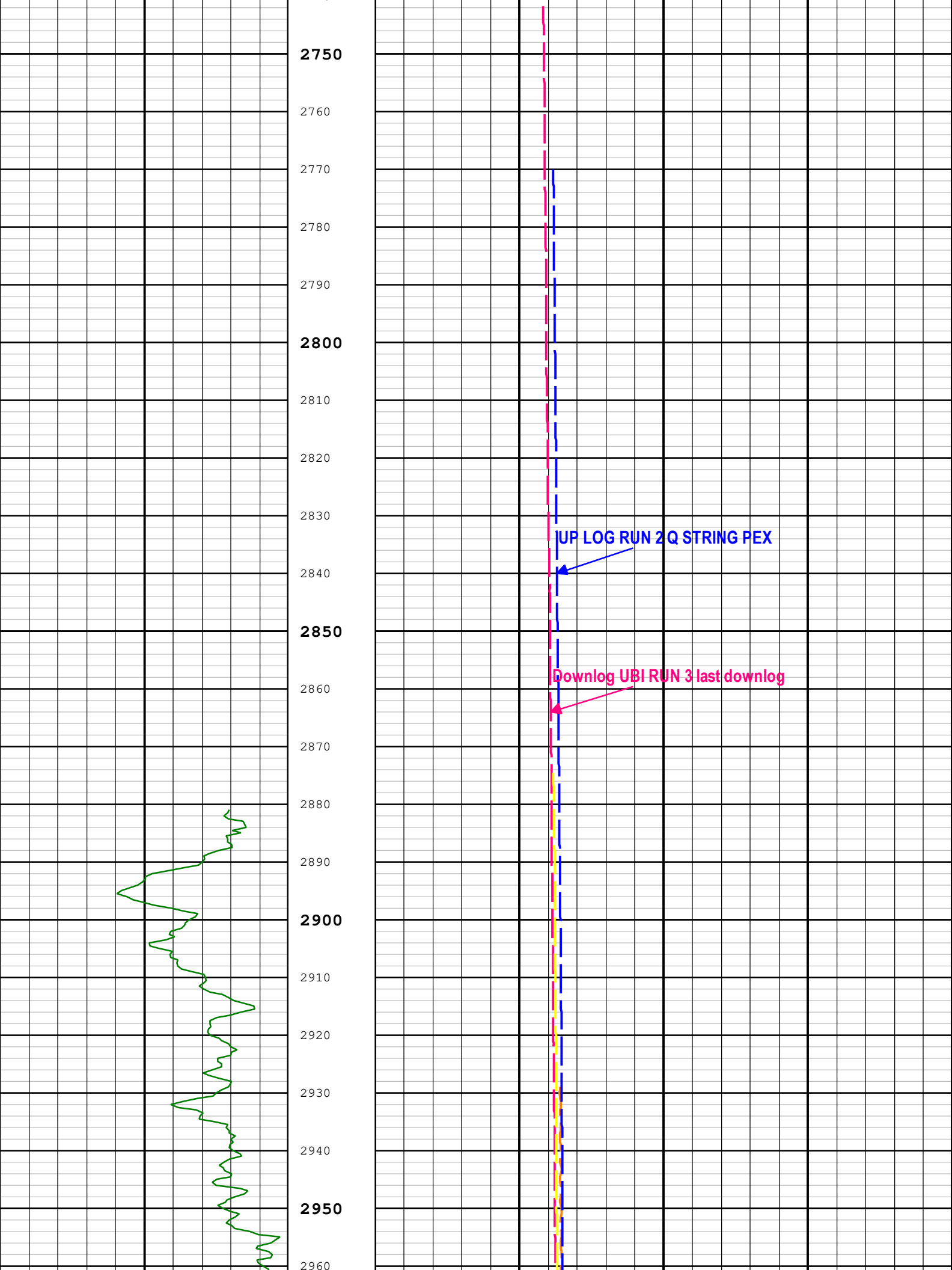
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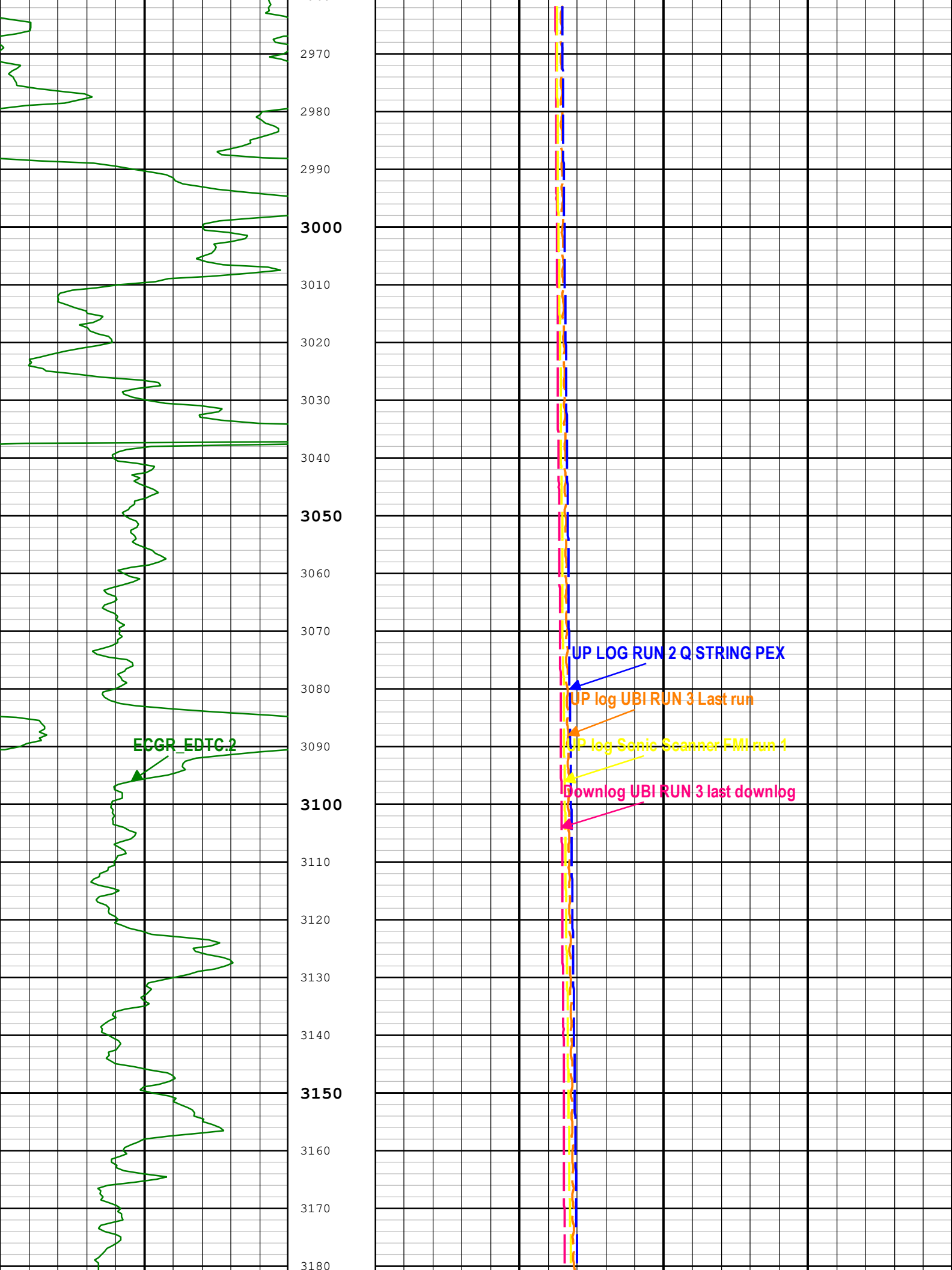
UP LOG RUN 2 Q STRING PEX
Downlog UBI RUN 3 last downlog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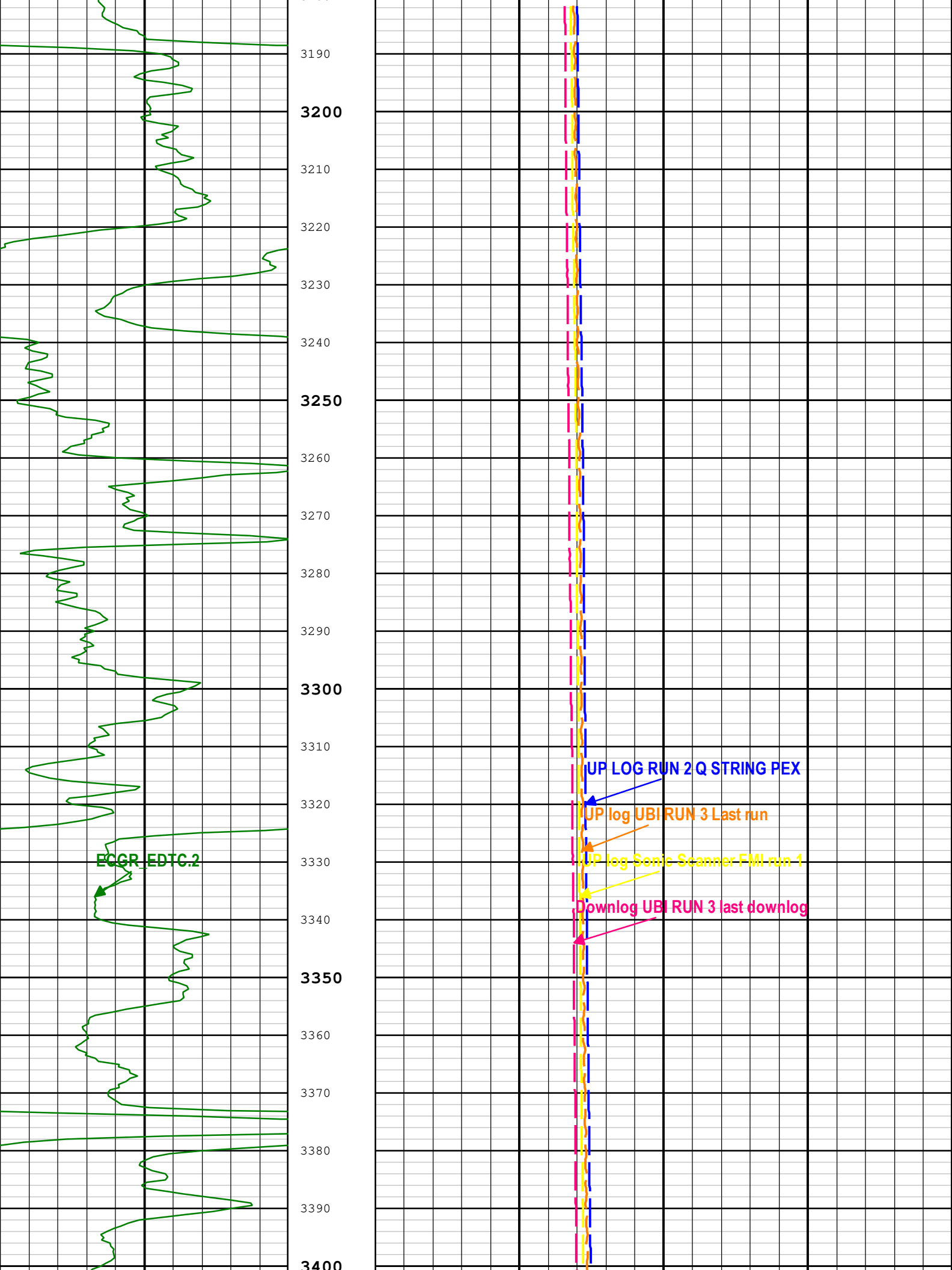
UP LOG RUN 2 Q STRING PEX
UP log UBI RUN 3 Last run
UP log Sonic Scanner FMI run 1
Downlog UBI RUN 3 last downlog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3380
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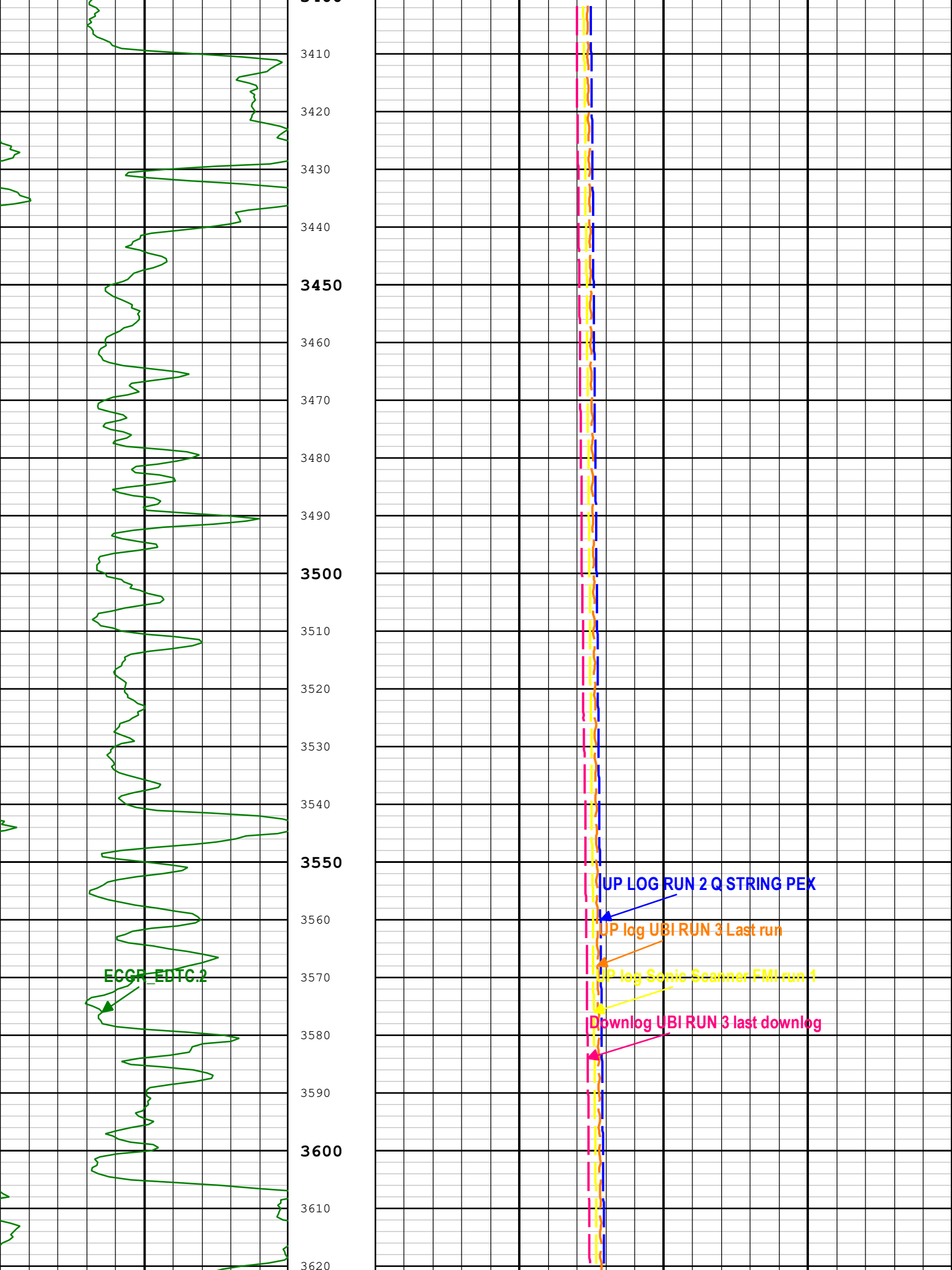
UP log Sonic Scanner FMI run 1
Downlog UBI RUN 3 last downlog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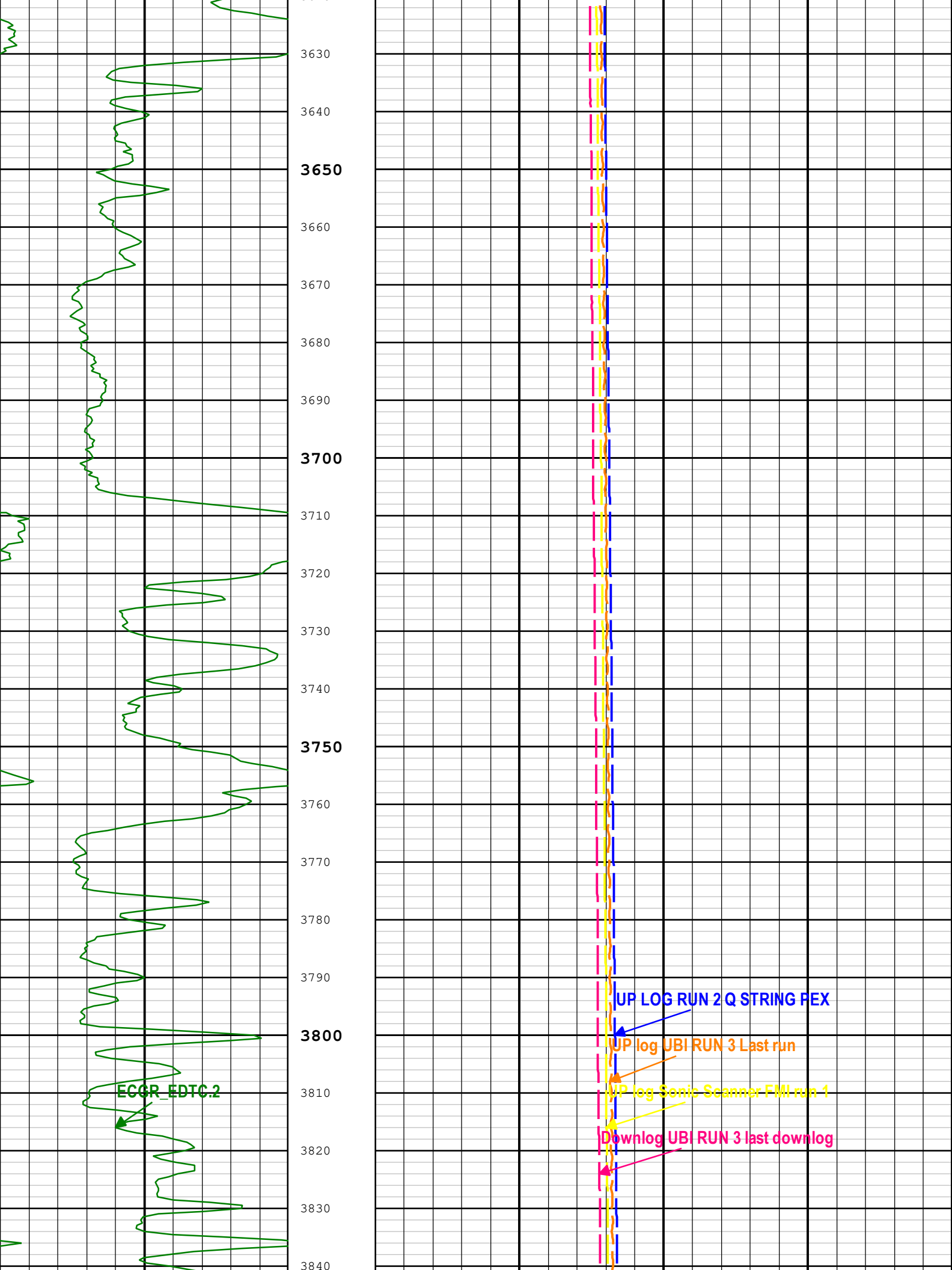
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UP log Sonic Scanner FMI run 1
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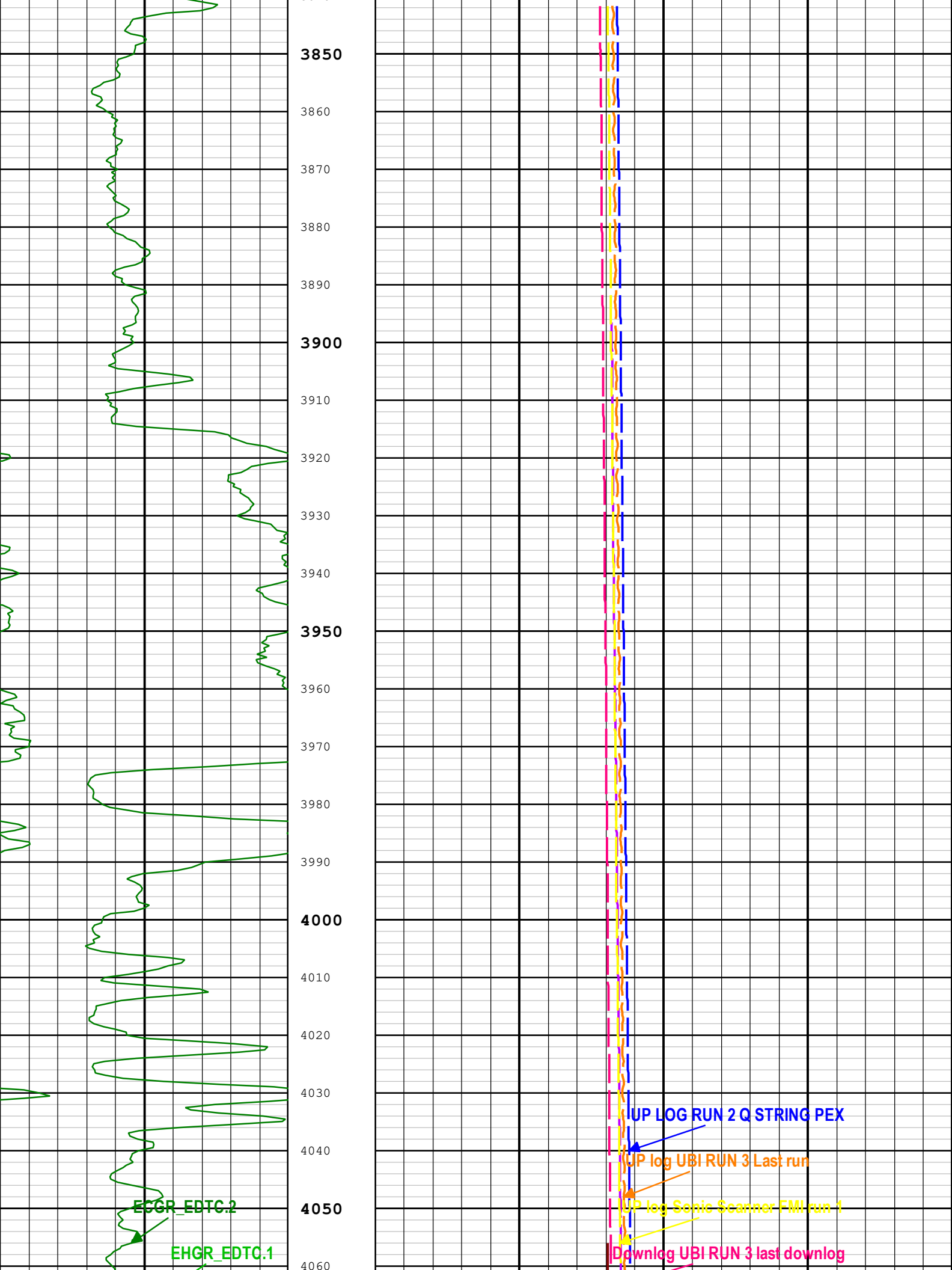
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4060
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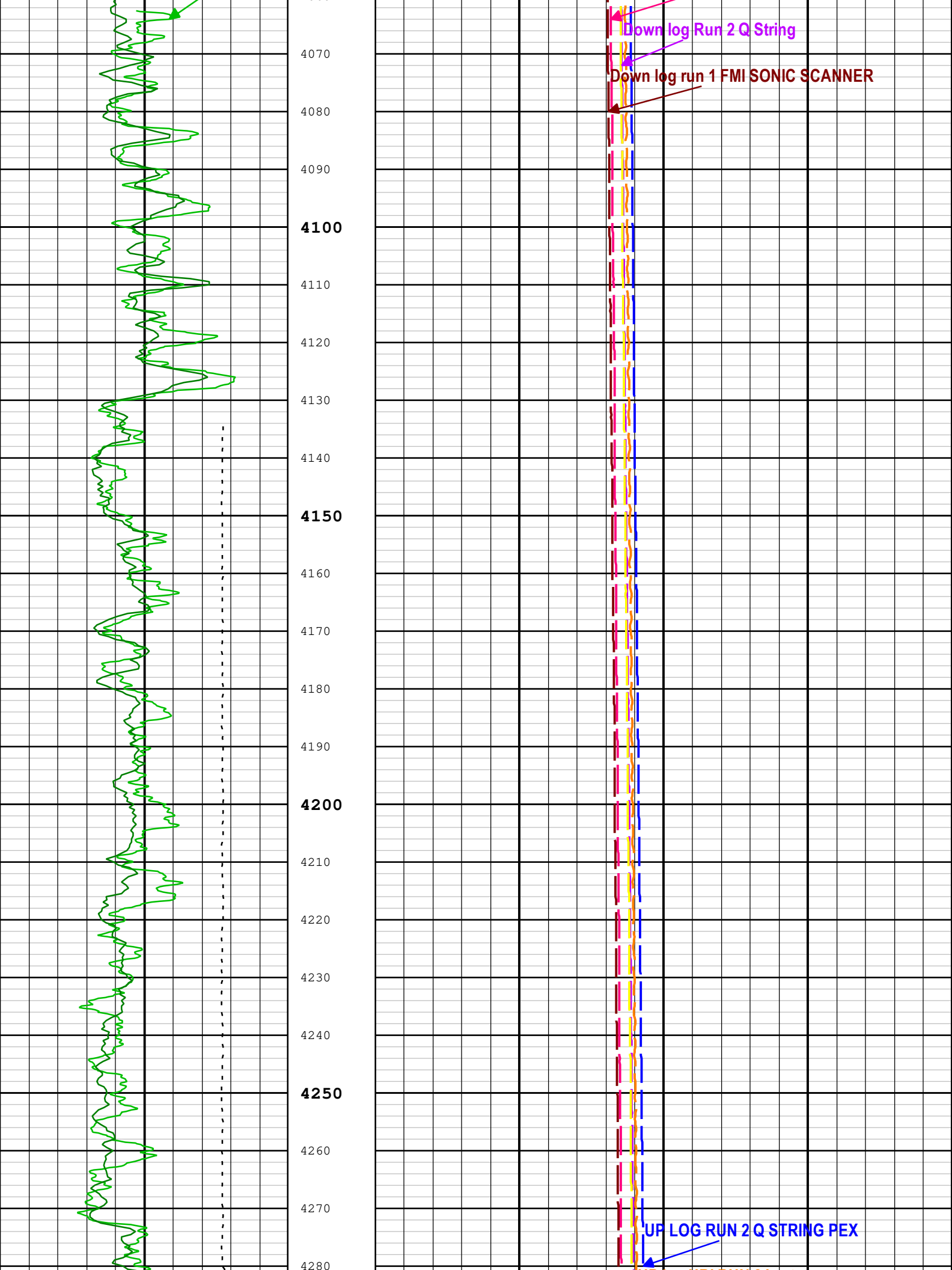
UP log Sonic Scanner FMI run 1
Downlog UBI RUN 3 last downlog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Down log run 1 FMI SONIC SCANNER
UP LOG RUN 2 Q STRING PEX
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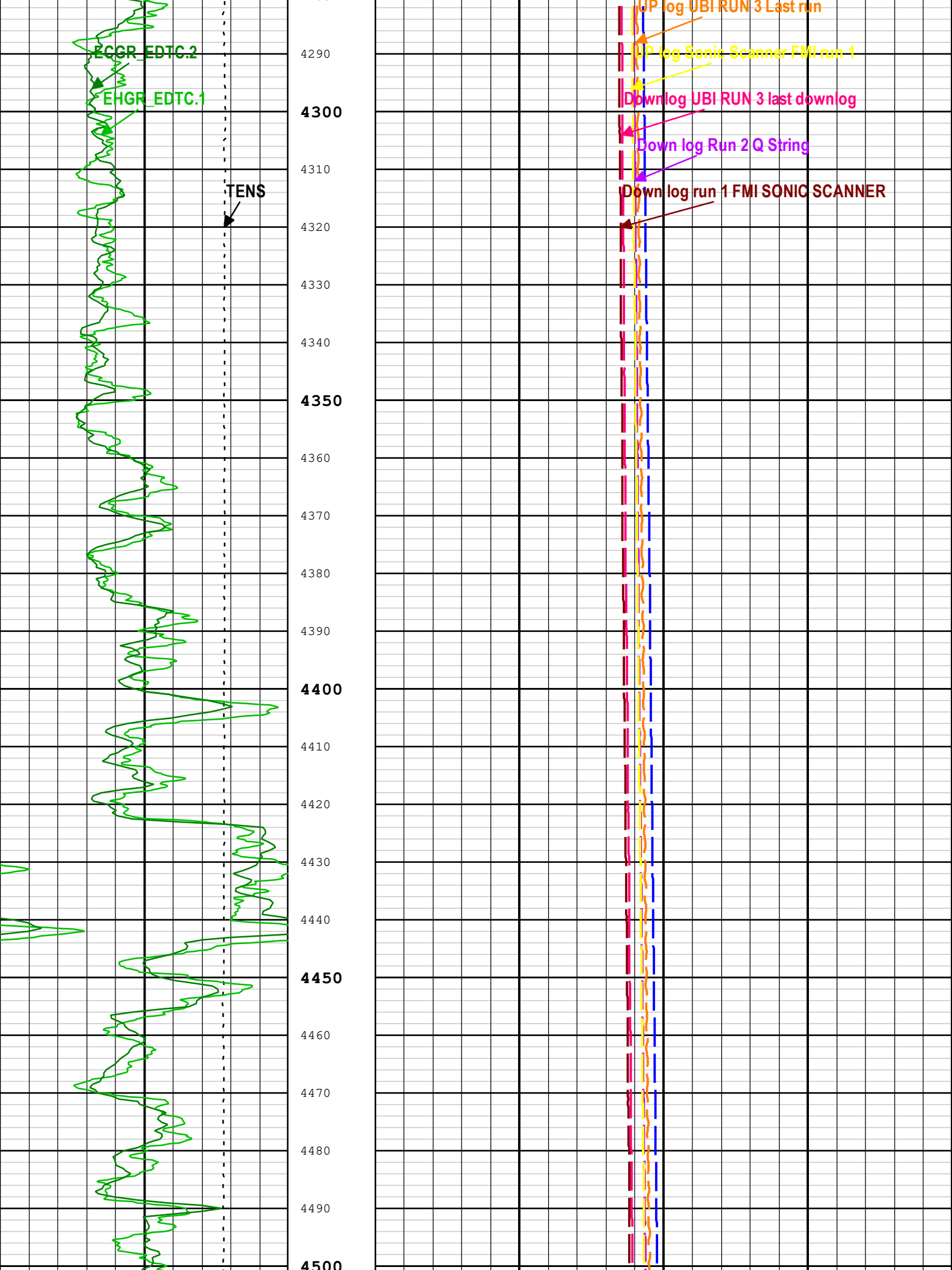
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EHGR_EDTC.1
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4390
4400
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4440
4450
4460
4470
4480
4490
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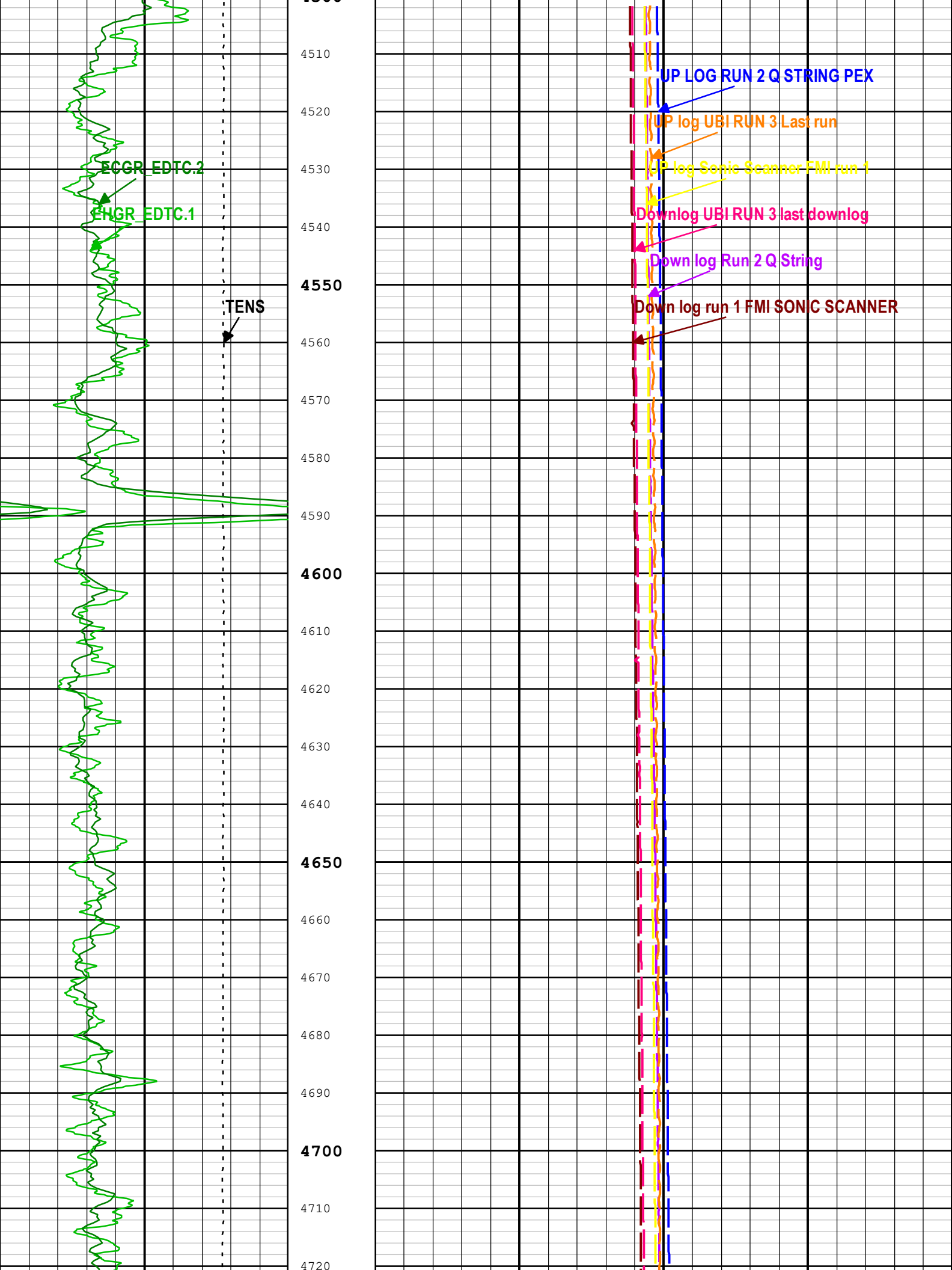
UP log UBI RUN 3 Last run
UP log Sonic Scanner FMI run 1
Down log UBI RUN 3 last down log
Down log Run 2 Q String
Down log run 1 FMI SONIC SCANNER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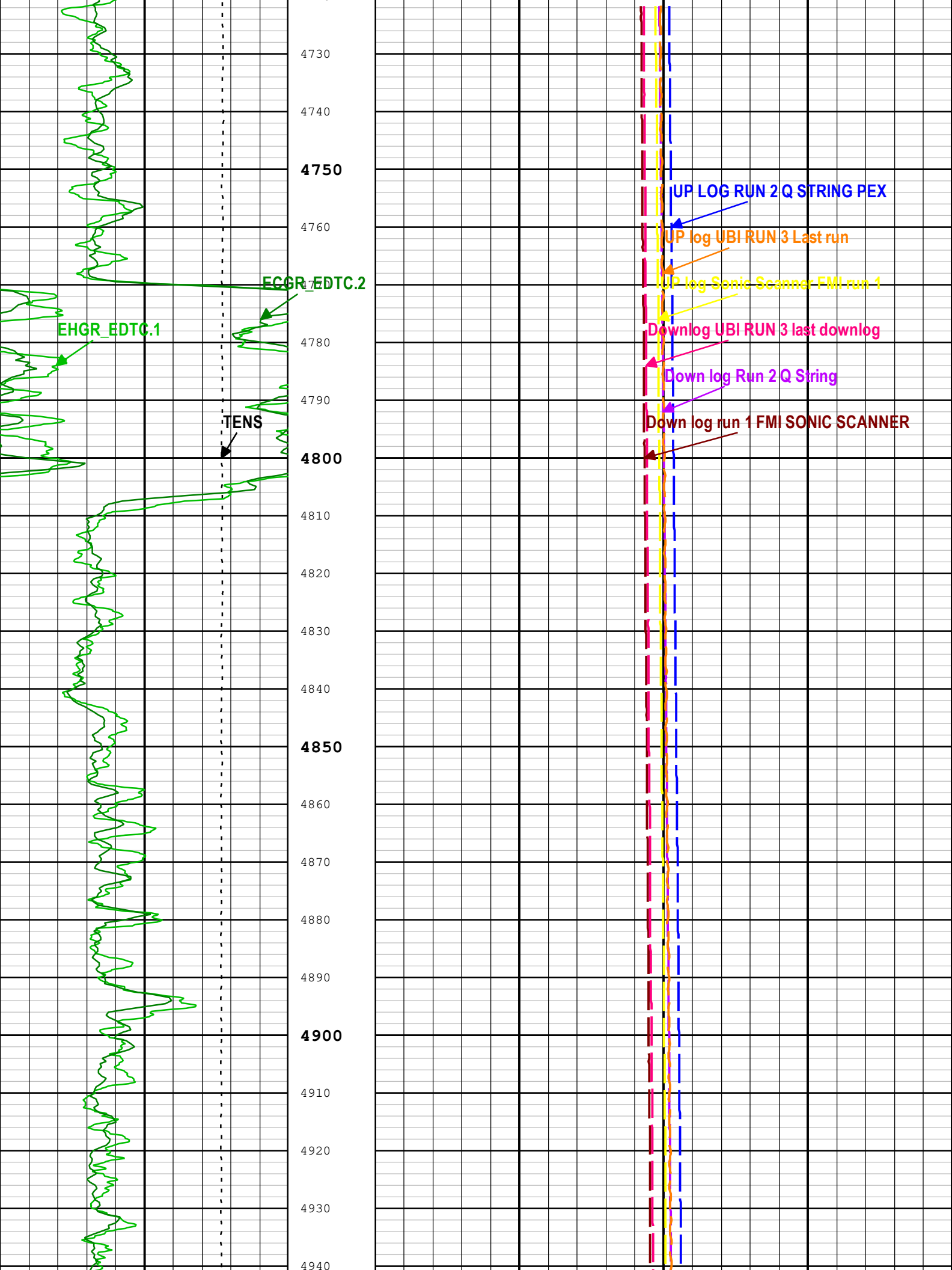
4630
4640
4650
4660
4670
4680
4690
4700
4710
4720
UP LOG RUN 2 Q STRING PEX
UP log UBI RUN 3 Last run
UP log Sonic Scanner FMI run 1
Downlog UBI RUN 3 last downlog
Down log Run 2 Q String
Down log run 1 FMI SONIC SCANNER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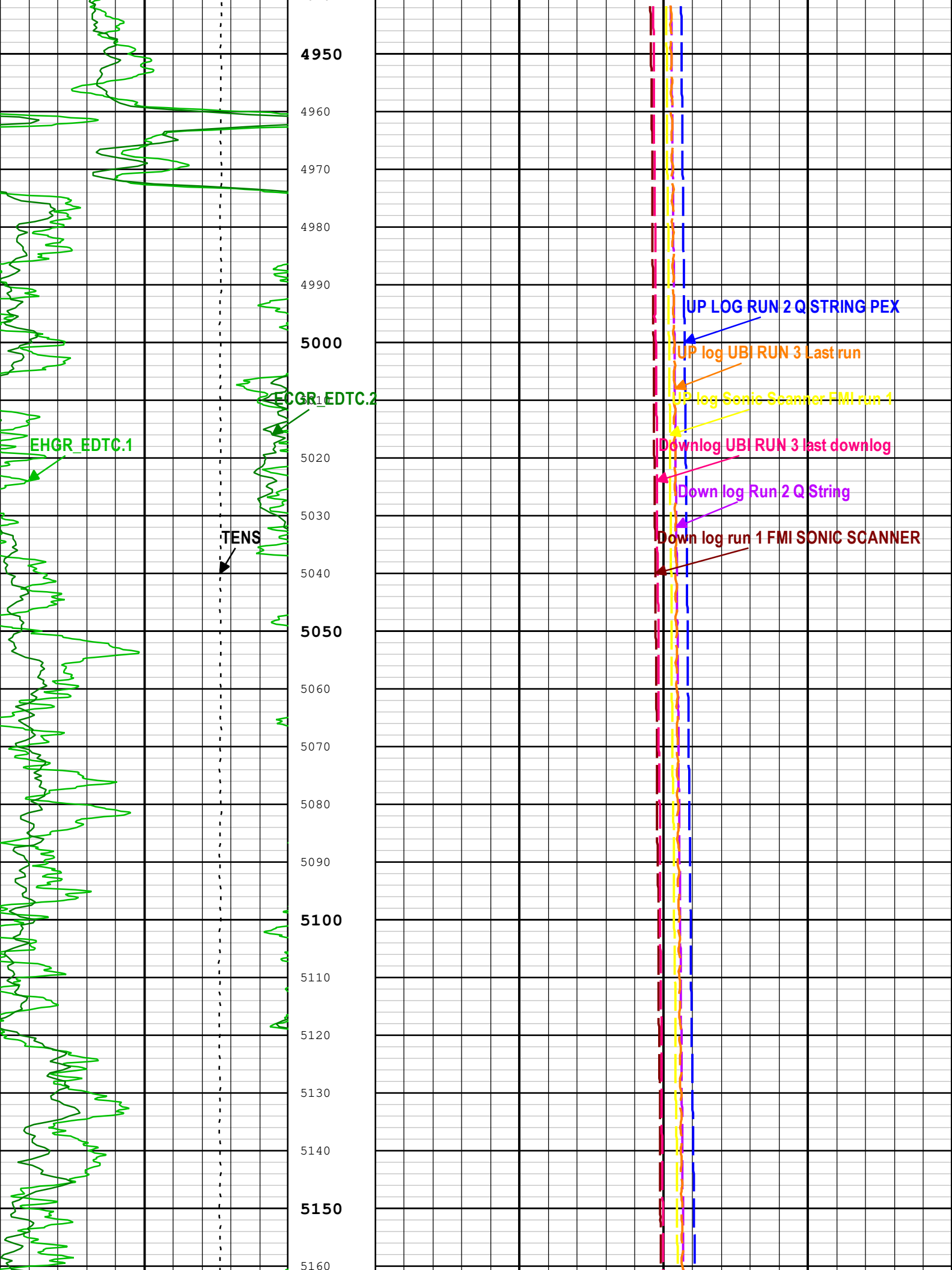
4890
4900
4910
4920
4930
4940
ECGR_EDTC.2
EHGR_EDTC.1
TENS
UP LOG RUN 2 Q STRING PEX
UP log UBI RUN 3 Last run
UP log Sonic Scanner FMI run 1
Downlog UBI RUN 3 last downlog
Down log Run 2 Q String
Down log run 1 FMI SONIC SCANNER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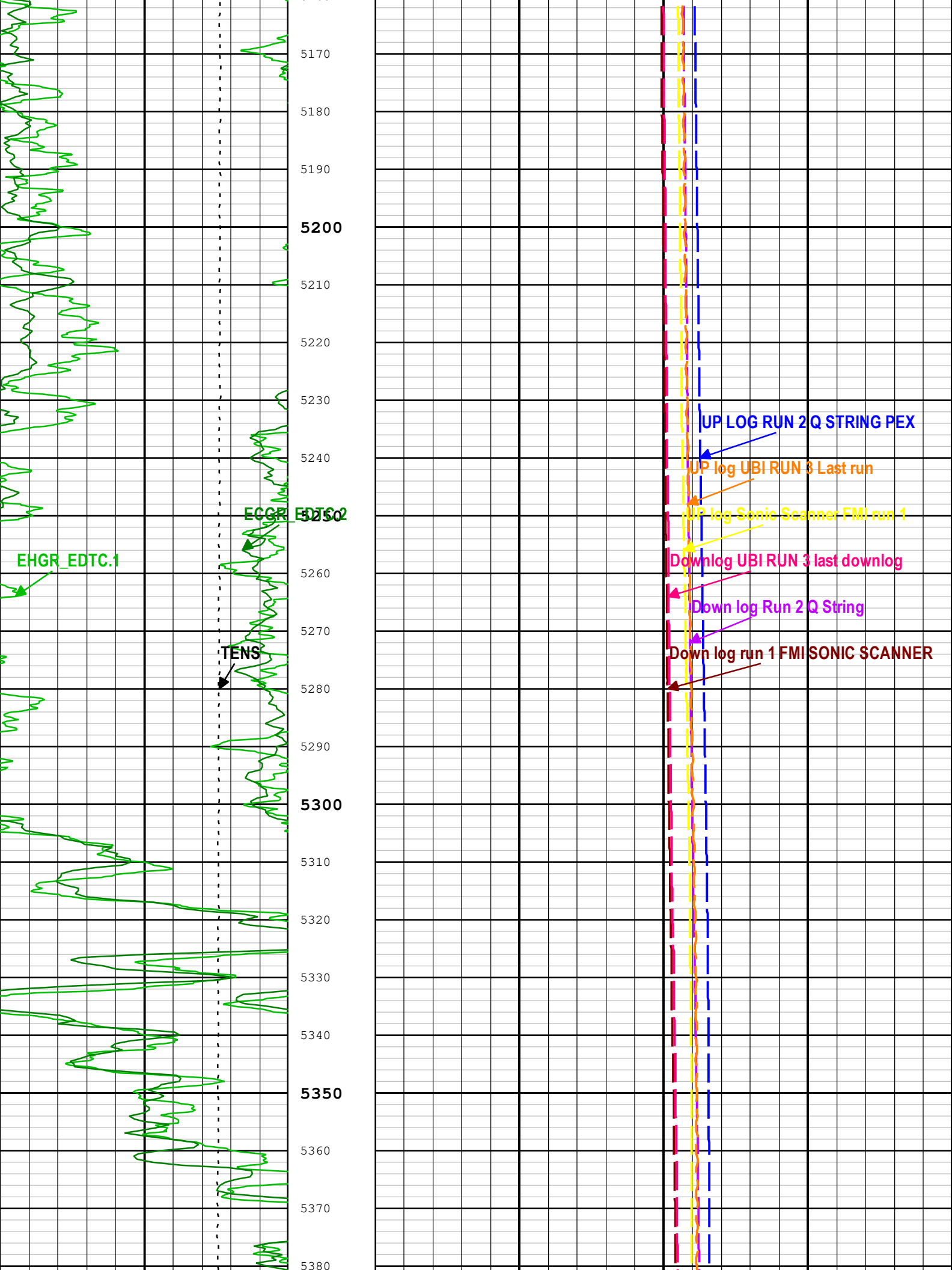
Down log run 1 FMI SONIC SCANNER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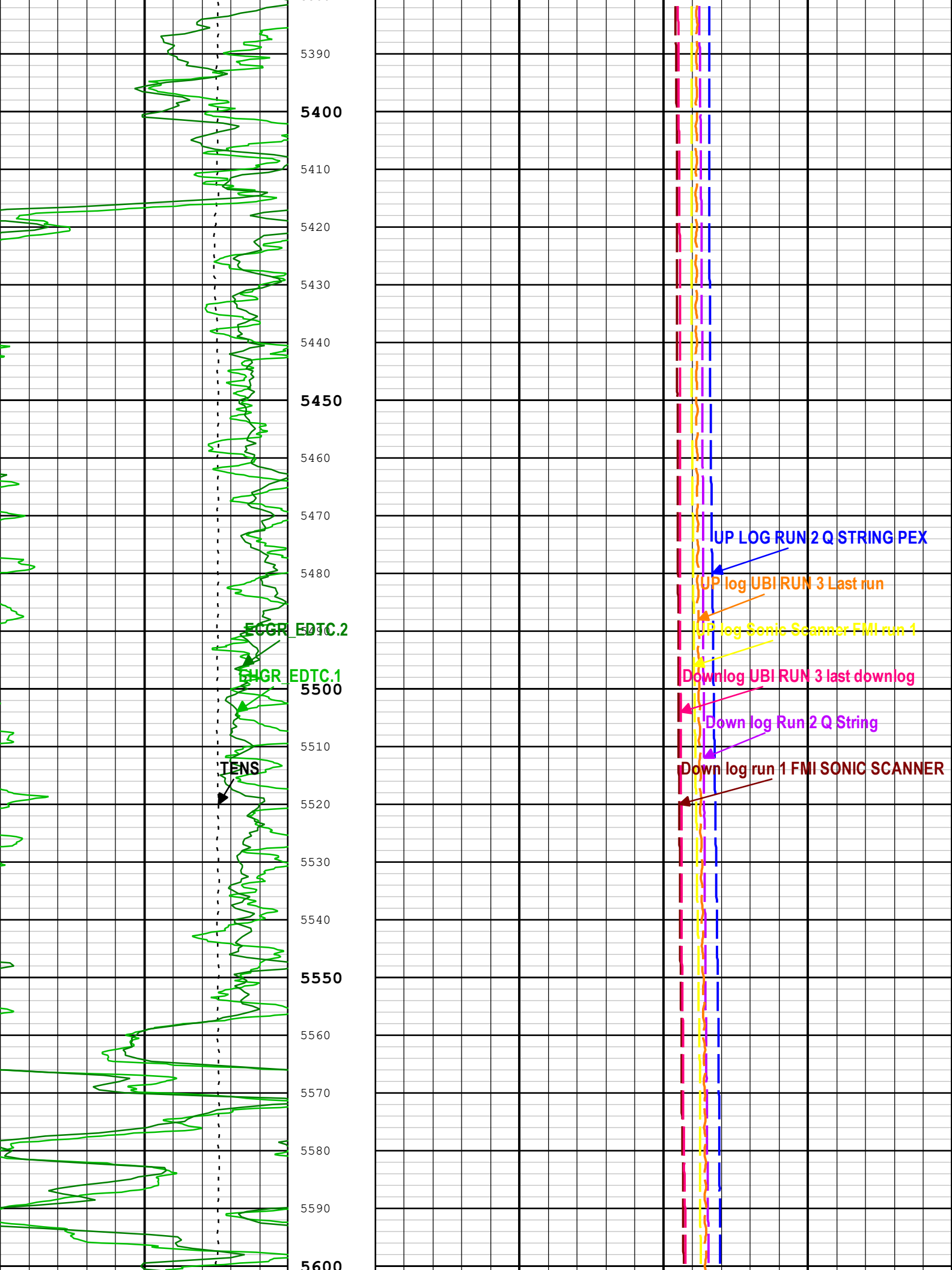
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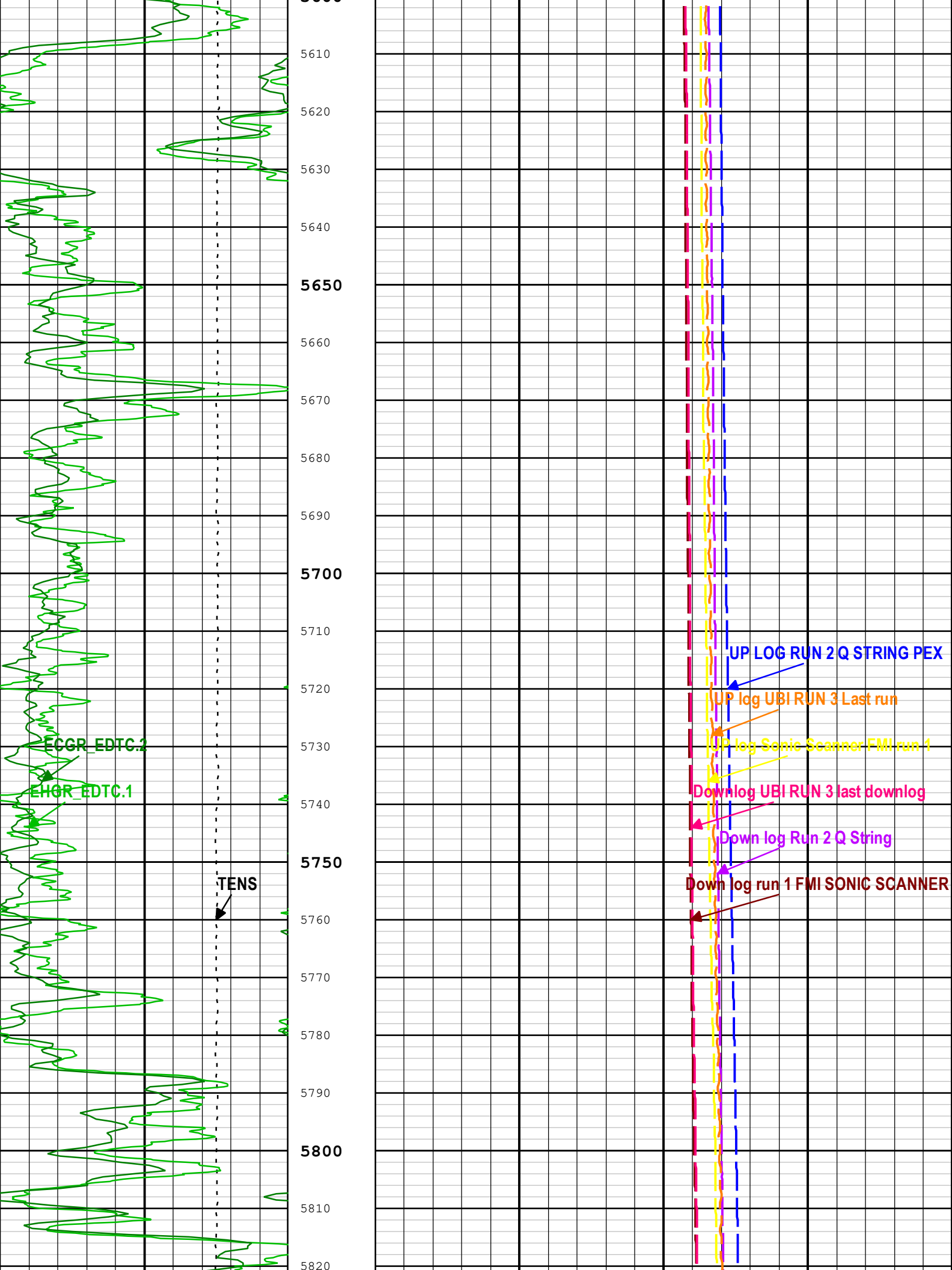
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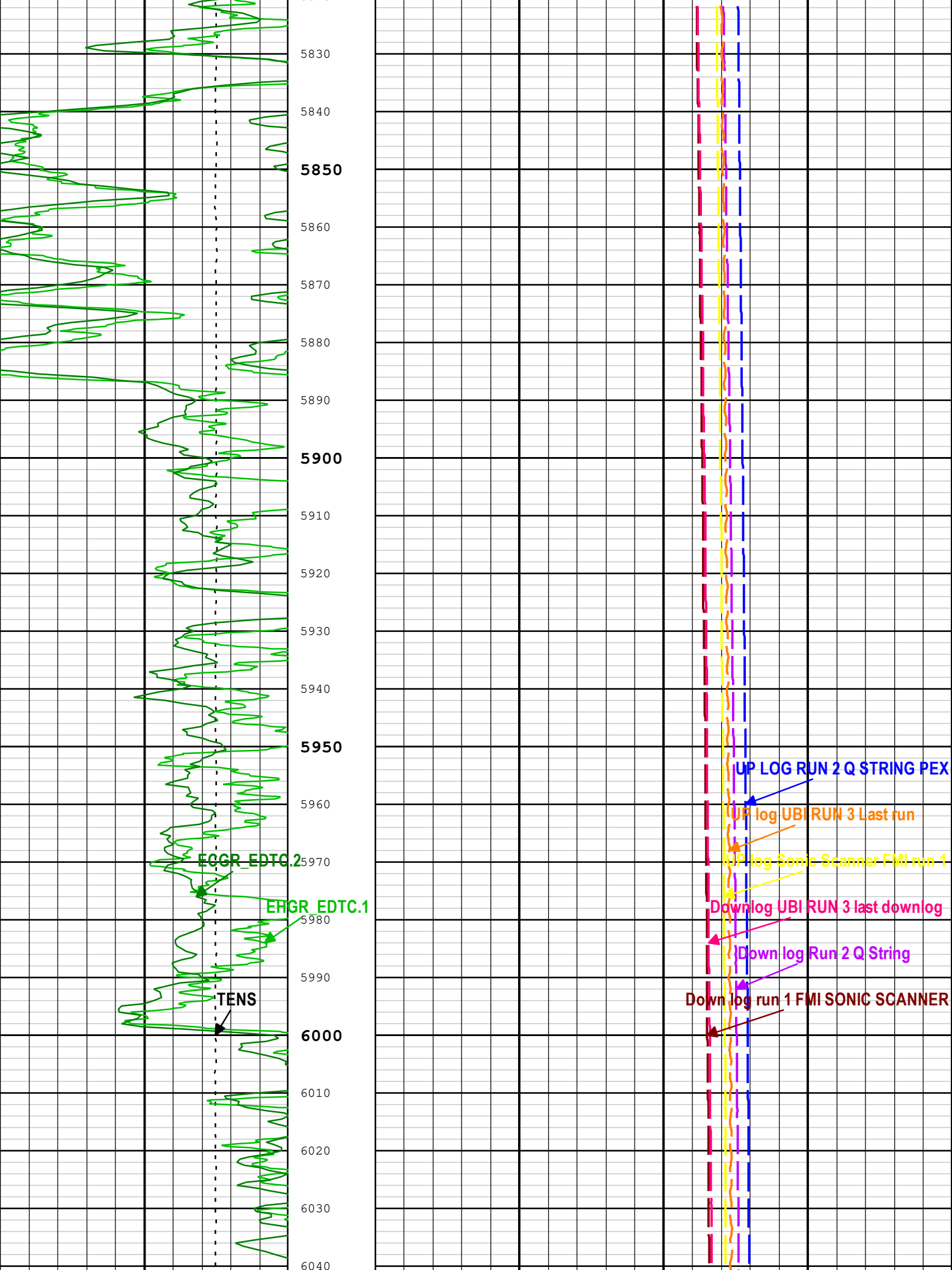
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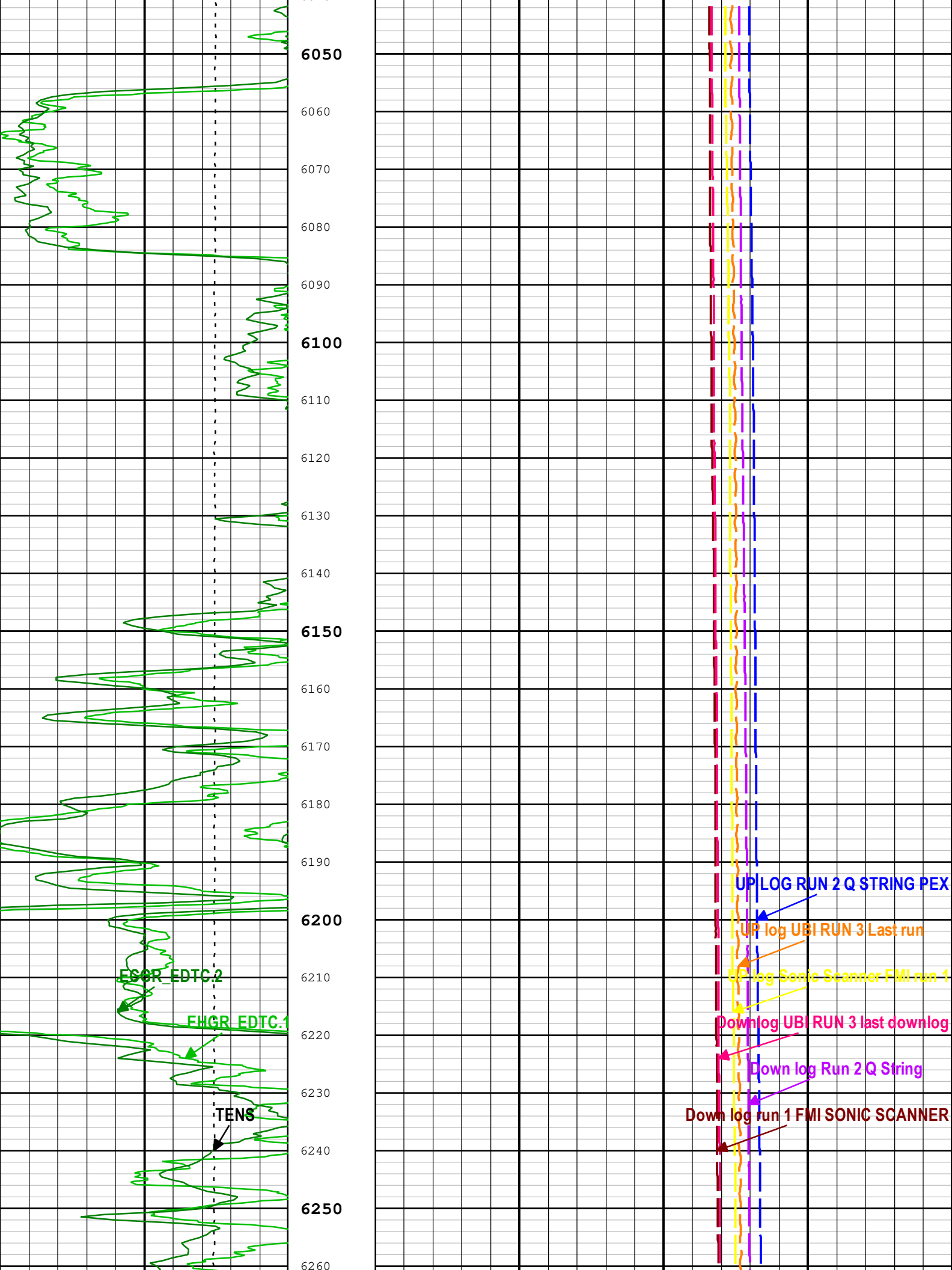
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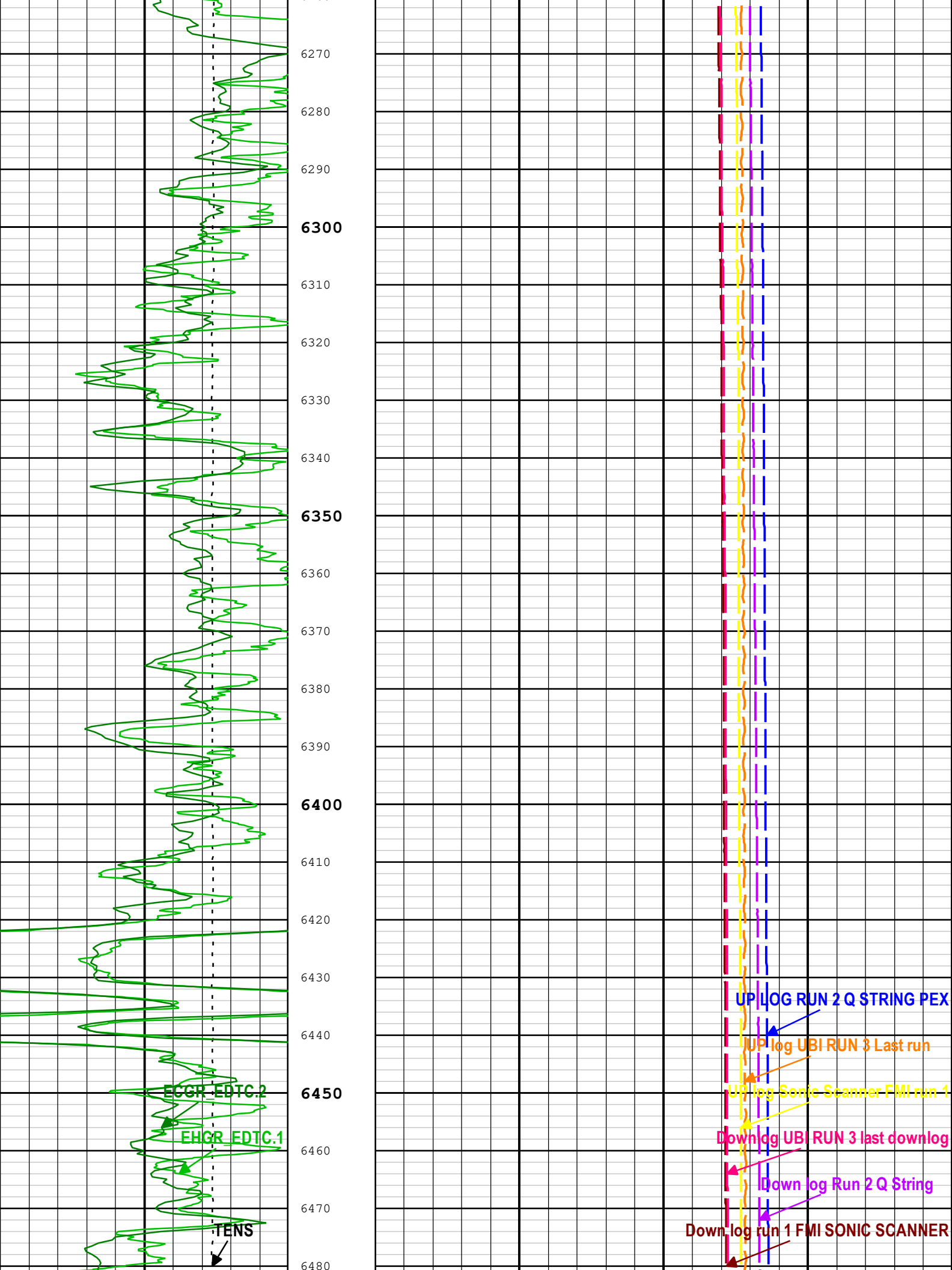
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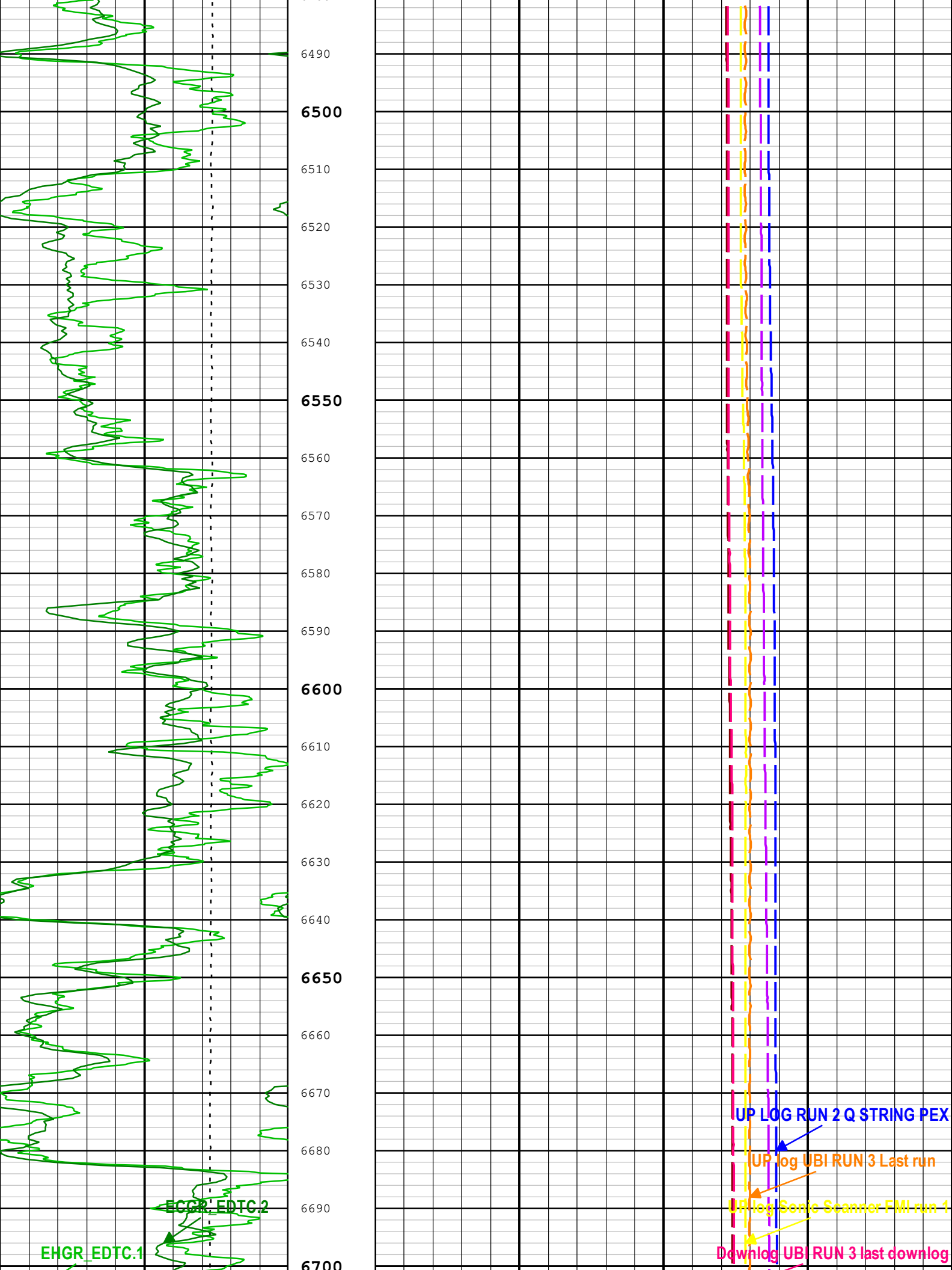
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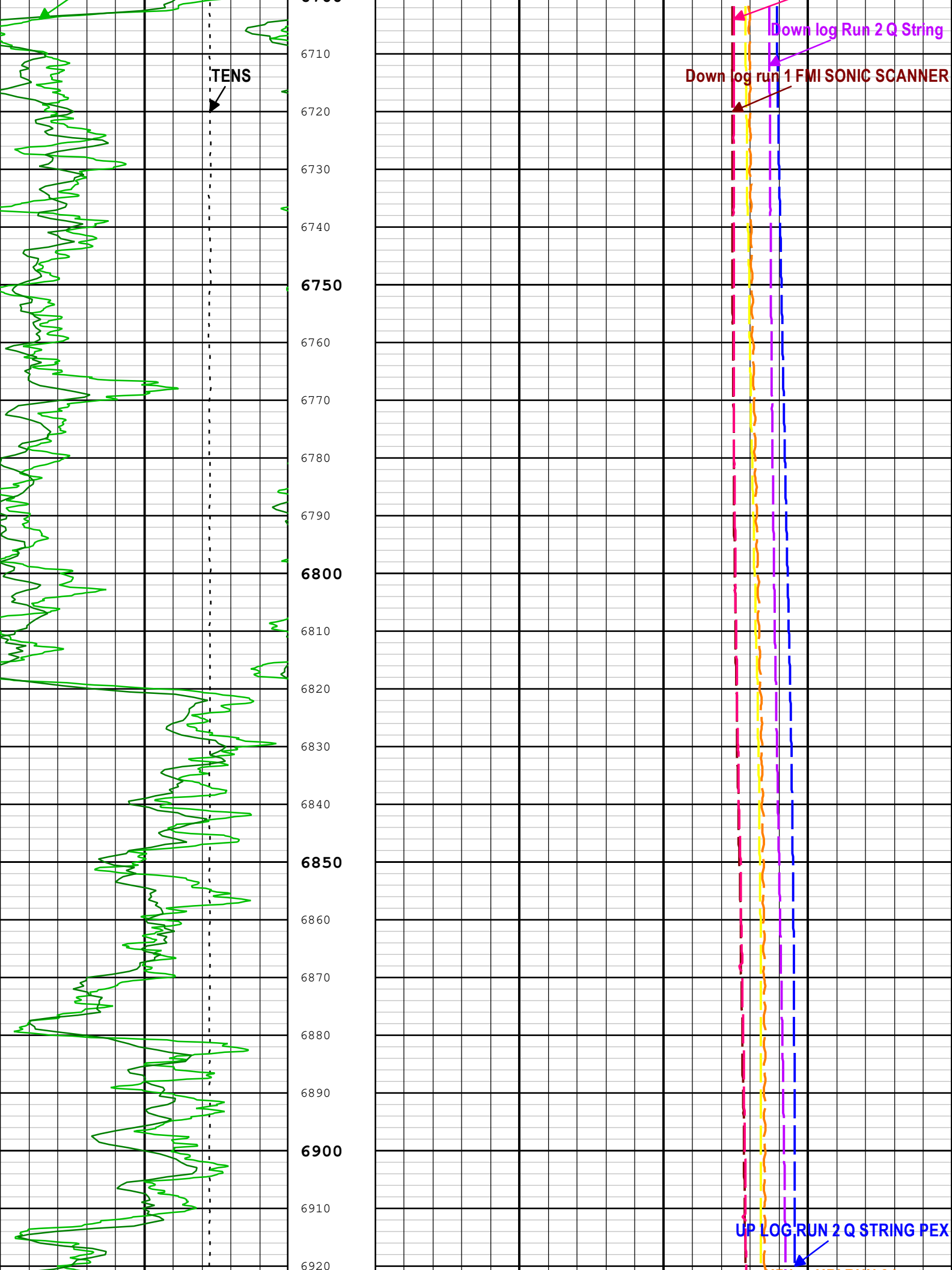
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Down log run 1 FMI SONIC SCANNER
UP LOG RUN 2 Q STRING PEX
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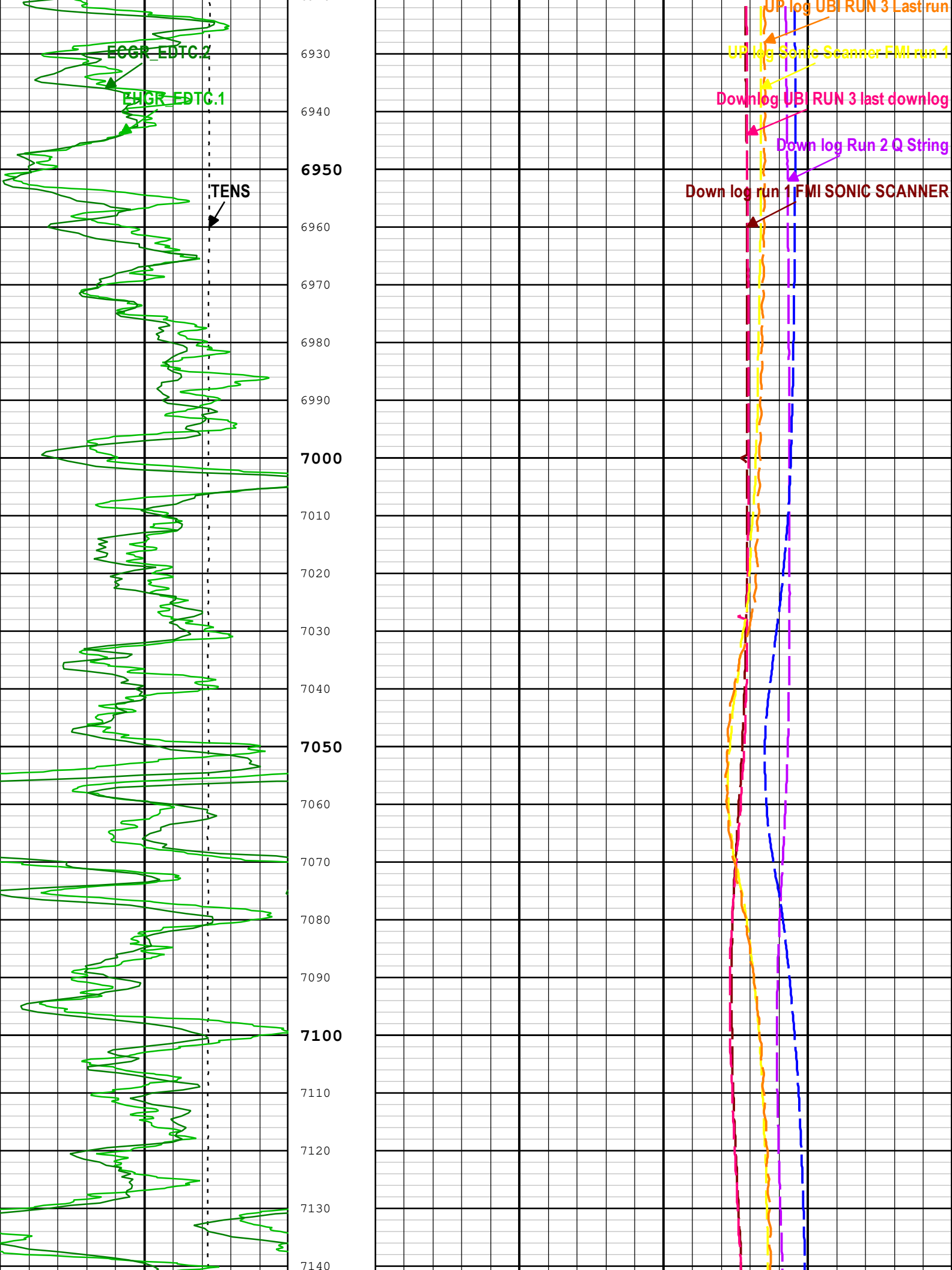
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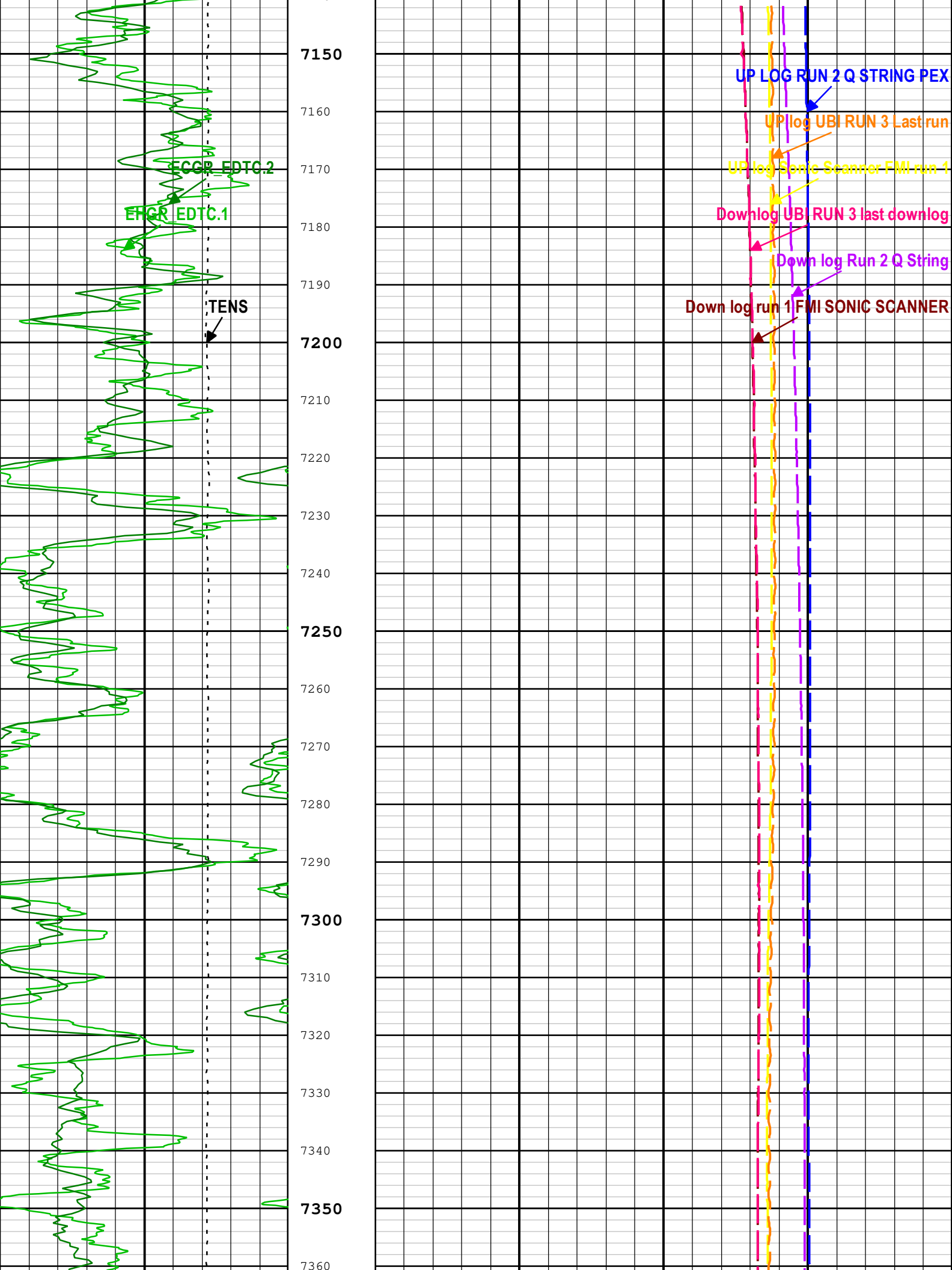
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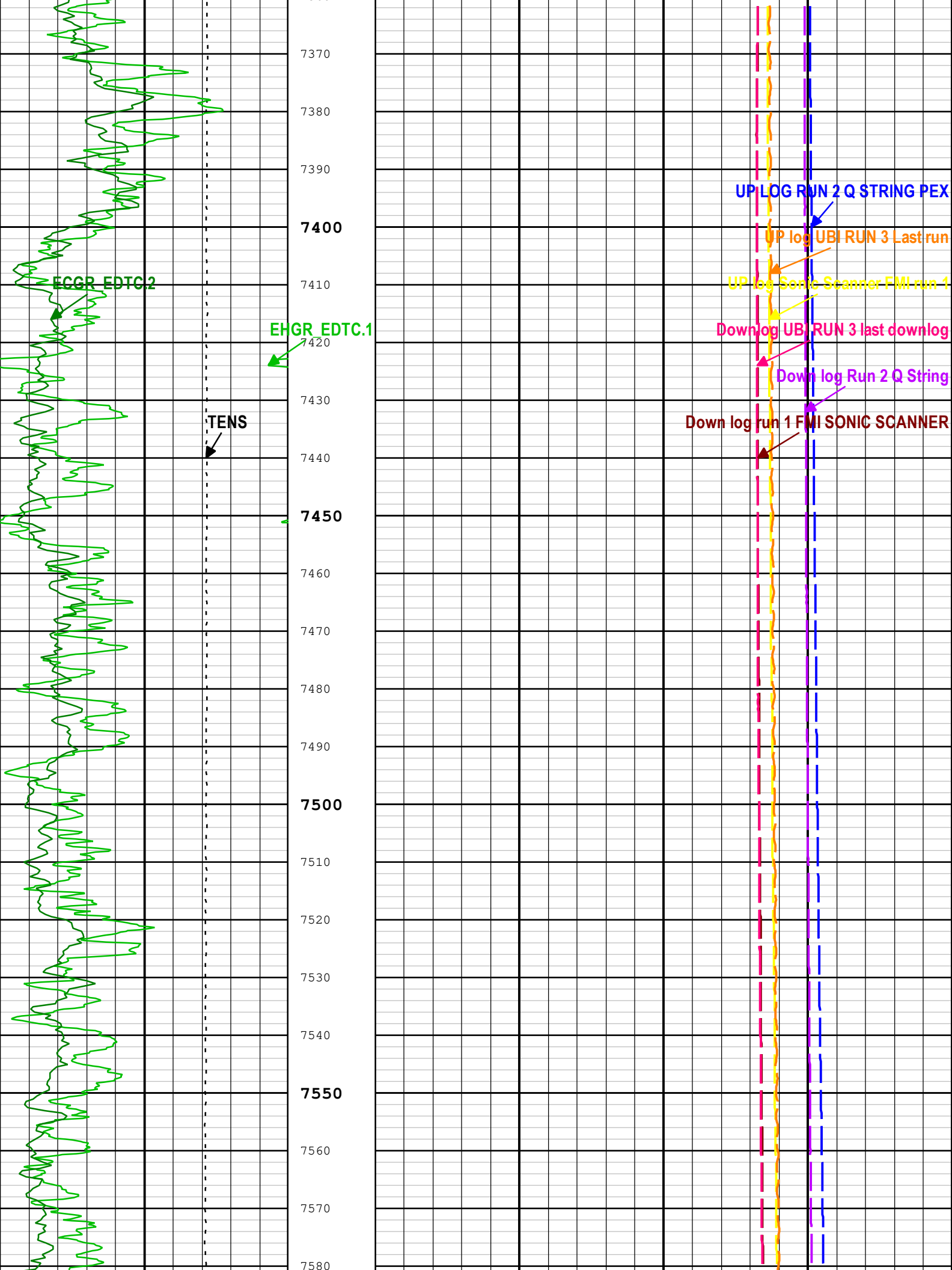
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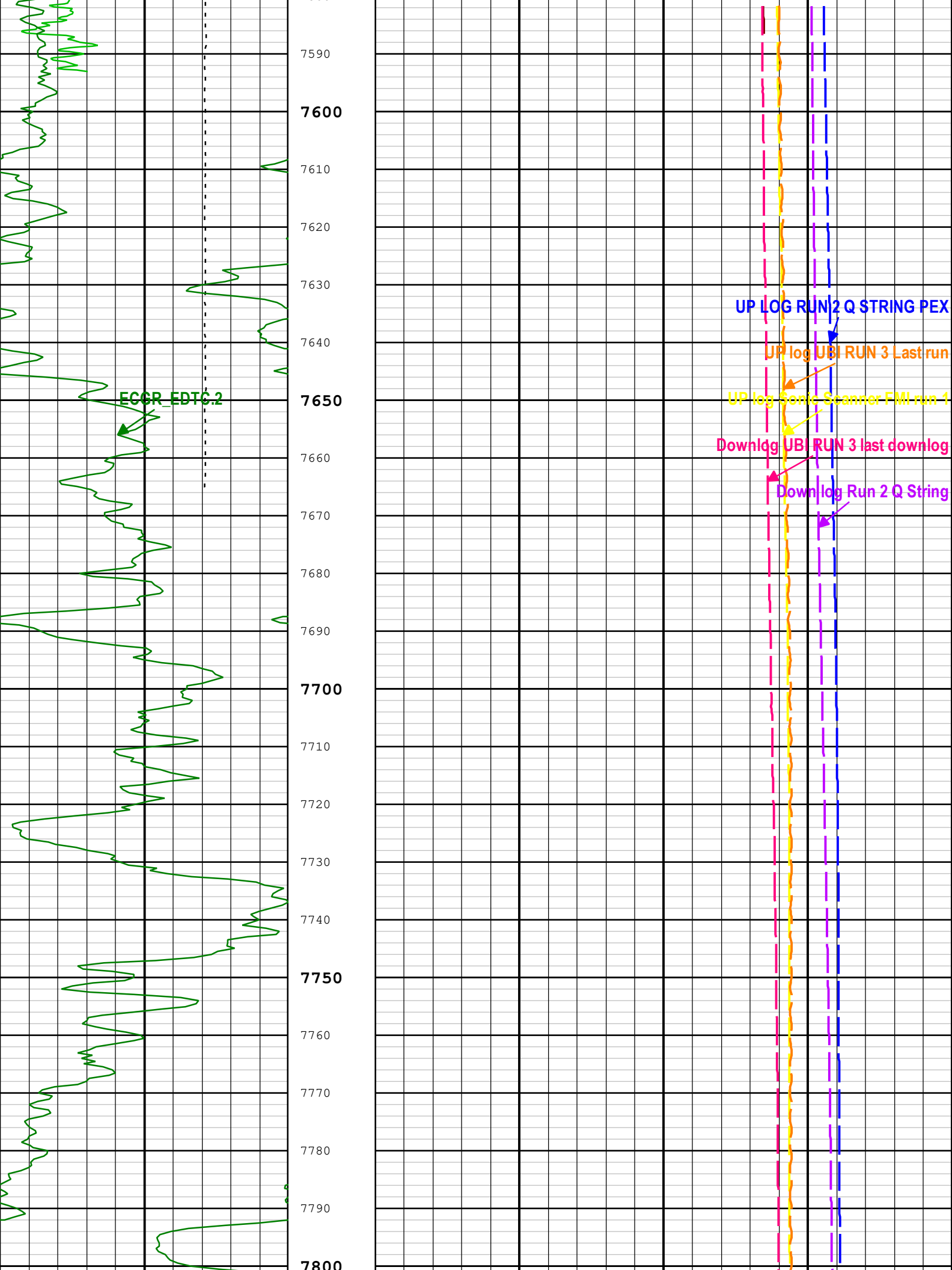
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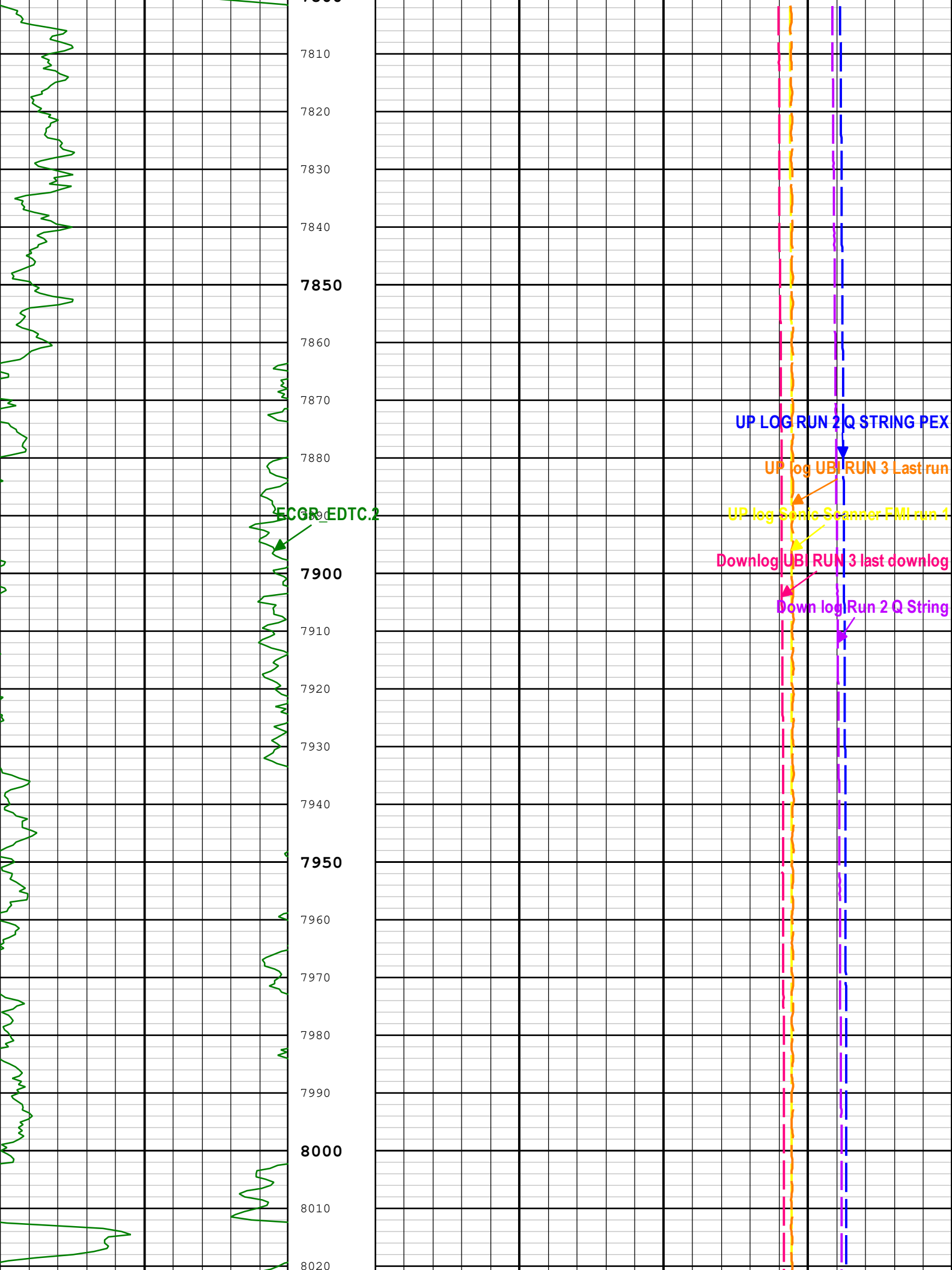
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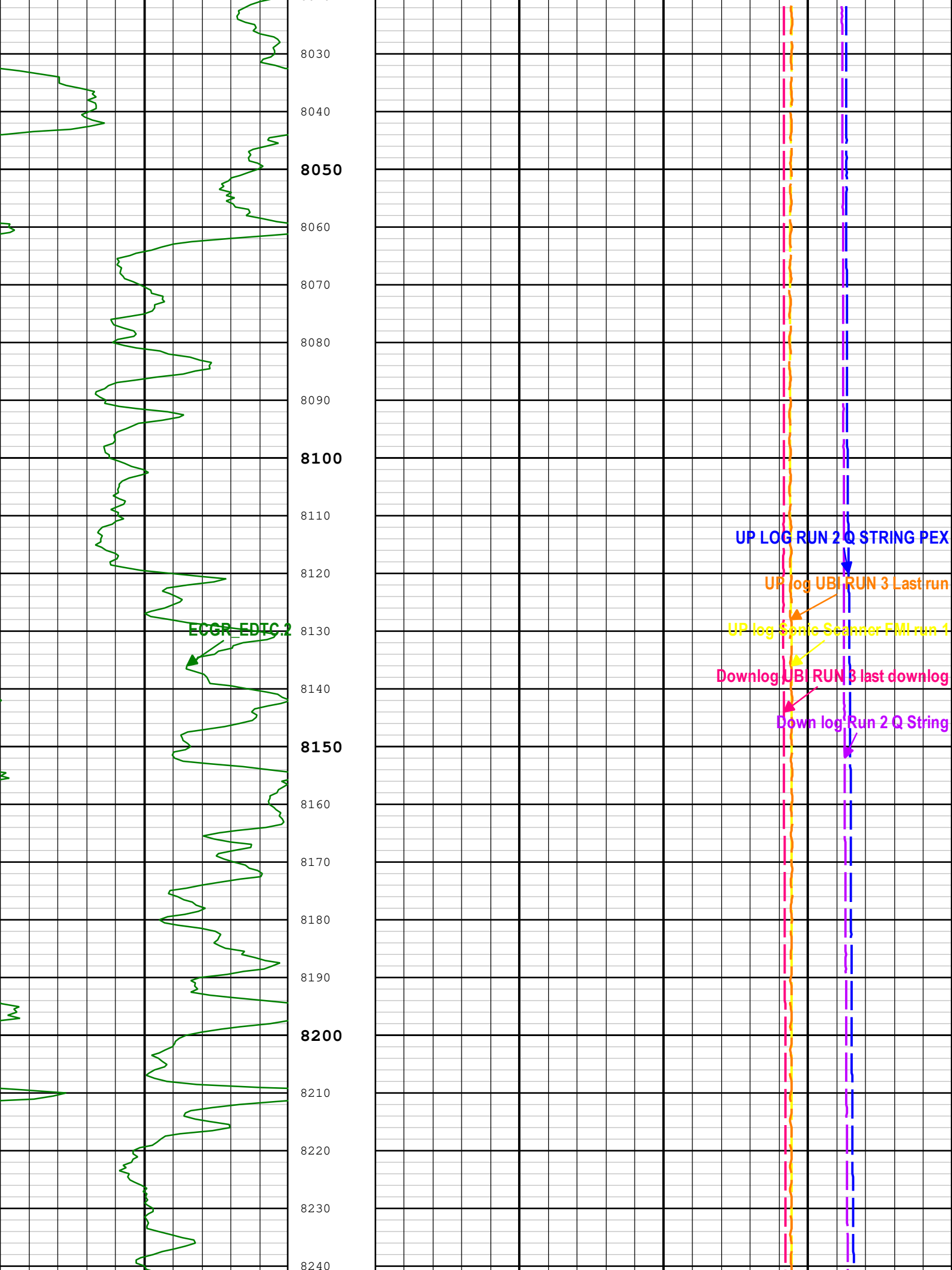
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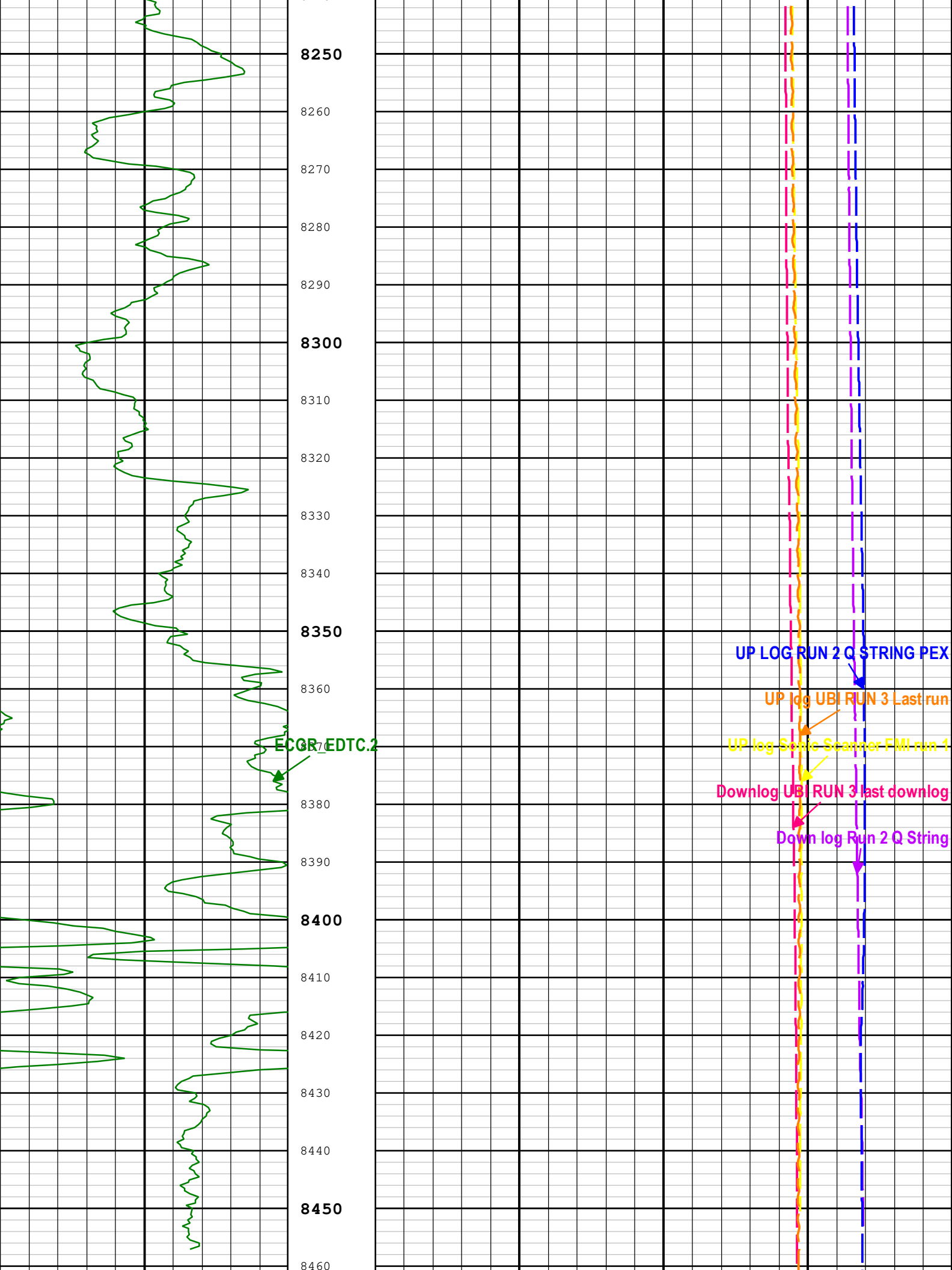
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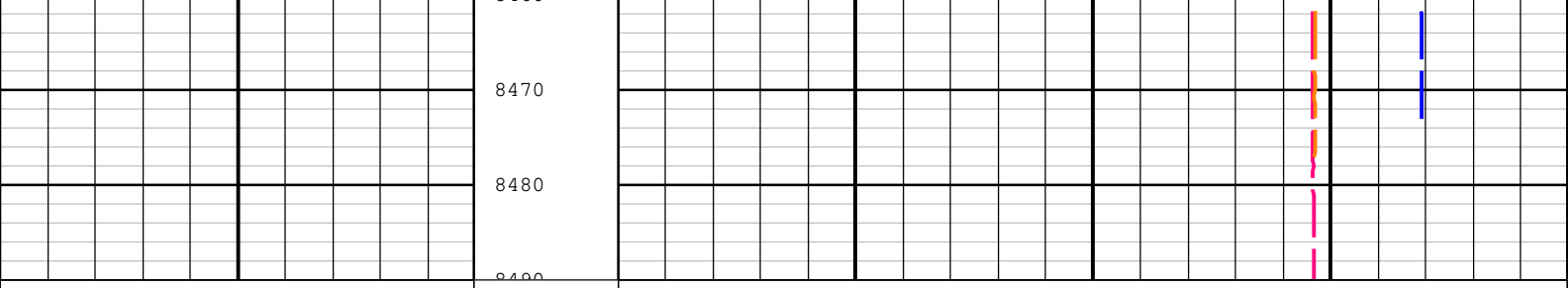

Description: Format: Log (TempLog) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 22-Jul-2021 14:14:49

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
C1_SHIFT	C1 Caliper Supplementary Offset	FBST-E	0.173	in
C2_SHIFT	C2 Caliper Supplementary Offset	FBST-E	-0.201	in
CBLO	Casing Bottom (Logger)	WLSESSION	2988	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DFD	Drilling Fluid Density	Borehole	8.3	lbm/gal
DPINV_LAGCUT	Lag Cut for Dipole Inversion	MAST-B	No	
DTST_SLO_MFL	Slowness Series of Mouse Clicks for Relabeling DTST_MFL	MAST-B	[0]	us/ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	C1	

1ADepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	14.77	2871.99	2989
BS	10.625	2989	8490

All depth are actual.

3A: Parameters

Parameter	Description	Tool	Value	Unit

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
AMIP	Adaptive Mode Initial Phase	FBST-E	0	deg

APM	Acquisition Phase Mode	FBST-E	WBM - Adaptive Phase Control		
EMXGMOD	EMEX and Gain Modes	FBST-E	Time Zoned		
FLM	Logging Mode	FBST-E	Full Image Mode		
GAIN_FBST	Electronic Gain Value in Manual Mode	FBST-E	0 dB		
GARM_A	Electronic Gain Value for Arm A	FBST-E	0 dB		
GARM_B	Electronic Gain Value for Arm B	FBST-E	0 dB		
GARM_C	Electronic Gain Value for Arm C	FBST-E	0 dB		
GARM_D	Electronic Gain Value for Arm D	FBST-E	0 dB		
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	ft/h	
MPSC	Manual Phase Shift Compensation	FBST-E	0	deg	
XVOL	EMEX Voltage	FBST-E	0	V	

1ATime Zoned Parameters

Pass Log[1]:Down

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXGMOD	EMEX= Manual and Gain= Manual	19-Jul-2021 07:37:21	19-Jul-2021 07:50:07	4134.72	7665.52
MAX_LOG_SPEED	981	19-Jul-2021 07:37:21	19-Jul-2021 07:50:07	4134.72	7665.52

Pass Log[2]:Up

EMXGMOD	EMEX= Auto and Gain= Auto	19-Jul-2021 07:54:03	19-Jul-2021 13:26:07	8529.53	2952.88

All depth are at tool zero.

3A: Parameters

Parameter	Description	Tool	Value	Unit
VRES	Vertical Resolution	USIT-E	0.4 in	

County: Beaver

Country:

Temperature Log

Gamma Ray