



Potassium	%	n.a									
<b>Environmental data</b>											
<b>GR</b>											
Mud weight	ppg	11.65									
Bit size	in	9.875									
<b>Resistivity</b>											
<b>Neutron porosity</b>											
Hole Size	in	9.875									
Mud weight	ppg	11.65									
Temperature	°C	91.0									
Mud salinity	ppk	58.628									
Formation salinity		n.a									
Recording rate 1	SEC	6 (arc)									
Recording rate 2	SEC	5 (adn) 10 (sonic)									
Filtering GR		3 pts.									
Filtering density		3 pts.									
Filtering Neutron		3 pts.									
Company representative		R. C. Moore	G. Doty	D. Daniels							
D&M personnel		M. Amarasena	B. Low	W. Chehabi	C. Soper	S. Ahmad					

<p style="text-align: center;"><b>DISCLAIMER</b></p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p>		
<b>OTHER SERVICES FOR RUN2</b> Directional Drilling Directional Surveys Annular Pressure & Temperature Shock & Vibrations	<b>OTHER SERVICES FOR RUN</b>	<b>OTHER SERVICES FOR RUN</b>
<b>REMARKS: RUN NUMBER 2</b> Depth is referenced to Driller's depth  Gamma ray is corrected for mud weight, tool size and bit size  Resistivity is borehole compensated and environmentally corrected  Neutron porosity is corrected for the effects of borehole size (bit size), temperature, mud salinity and mud hydrogen index (a factor of mud weight, mud temperature and pressure)  Neutron porosity is calculated using a limestone matrix density of 2.71 g/cm3  ADN was run with a 9-3/8" clamp on stabilizer  Delta-T is borehole compensated  POOH upon reaching TD of CBA A33	<b>REMARKS: RUN NUMBER</b>	<b>REMARKS: RUN NUMBER</b>

<b>EQUIPMENT DESCRIPTION</b>		
<b>RUN2</b>	<b>RUN</b>	<b>RUN</b>
<b>DOWNHOLE EQUIPMENT</b>		

DOWNHOLE EQUIPMENT				
6-3/4" adnVISION*				35.91
9-3/8" Stabilizer	Neutron		— 33.91	
DHS: V8.4	Density		— 32.92	
S/N: 2400	UltraSonic		— 32.49	
6-3/4" sonicVISION*				29.33
DHS: V6.7	Receivers		— 26.28	
S/N: 46324	Transmitter		— 22.84	
9-5/8" NM-ILS				22.04
S/N: OSSO0812160				
6-3/4" TeleScope*				21.07
DHS: 9.2C02	D&I		— 16.71	
S/N: FU22	MVC		— 16.06	
9-5/8" NM-ILS				13.05
S/N: OSS051299F				
6-3/4" arcVISION*	Gamma Ray		— 8.62	11.98
DHS: V9.3	Resistivity		— 8.57	
S/N: VX02	ARC APWD		— 7.86	
6-3/4" PowerDrive X5				6.12
S/N: 1290				
9-7/8" Reed Hycalog PDC Bit			— 0.00	CBA A33
S/N: 220949				
Maximum string diameter 9.88 in.				
E148° 18' 32.826"				

Variable Name	Variable Description	Run Name & Value			
Run Number		2			
General Information					
BHT_RM	Bottom Hole Temperature (RM)	DEGC	91.000		
BSAL_RM	Mud Salinity (RM)	PPK	58.628		
BS_RM	Bit Size (RM)	IN	9.875		
COEF_M	User Defined FEXP in Clean Sand	----	1.650		
C_WS	Overpressure correction to Sw and M	----	1.000		
FEXP	Formation Factor Exponent(RM)	----	2.000		
FNUM	Formation Factor Enumerator(RM)	----	1.000		
FPHI_RM	Formation Factor Porosity Source (RM)	----	XPLOT		
MST_RM	Mud Sample temperature (RM)	DEGC	23.889		
MW_RM	Mud Weight (RM)	LB/G	11.650		
OBMF_RM	Oil Based Mud (RM)	----	YES		
RHOF_RM	Mud Filtrate Density (RM)	G/C3	1.000		
RHOM_RM	Matrix density (RM)	G/C3	2.710		
RMS_RM	Resistivity of Mud Sample (RM)	OHMM	1000.000		
RWA_COMP_M	Rwa computation model				
RWA_DEN_AD	Rwa Density Input ADN				
RWA_DEN_CD	Rwa Density Input CDN				
RWA_DEN_IN	Rwa Density Input				
RWA_FORM_M	Rwa computation formation model				
RWA_RES_IN	Rwa computation resistivity input				
RWS_RM	Resistivity of Connate Water (RM)	OHMM	1.000		
SHT_RM	Ground Level Temperature (Mud-Line When Offshore ) (RM)	DEGC	10.000		
TD_RM	Total Measured Depth (RM)	M	2579.000		
TWS_RM	Temperature of Connate Water (RM)	DEGC	23.889		
VF_ILLI	Fraction of illite in shales	----	0.500		
VF_KAOL	Fraction of kaolinite in shales	----	0.500		
VF_MONT	Fraction of montmorillonite in shales	----	0.000		
XPDM_RM	Cross plot density porosity multiplier	----	0.675		
XPNM_RM	Cross plot neutron porosity multiplier	----	0.325		
ADN					
ADN_CHASSIS_STR	Type String	Chassis	ADN		
ADN_COLLAR_STR	Type String	Collar	ADN		
ADN_DATA_FIX	ADN: Create A Corrected ADN Time Data File	----	NO		
ADN_DATA_LTB	ADN: Create An ADN LTB Data File	----	NO		
ADN_ORIENTATION	ADN Image Orientation	----	TOH		
ADN_STAB_STR	ADN Stabilizer Type String	----	TOH		
ALPHA_COMPUTE_D	Perform Density Enhanced Vertical Resolution process ?	----	YES		
ALPHA_COMPUTE_N	Perform Neutron Enhanced Vertical Resolution process ?	----	YES		
AVE_ADN	ADN/Array Channels: perform averaging(RM) :	----	YES		
A_DHS	ADN Down Hole Software Version String	----	YES		
CHI_RM	Caliper High limit from BS (RM)	IN	3.000		
CLO_RM	Caliper Low limit from BS (RM)	IN	0.000		
DEVI	Well Section Deviation	DEG	14.540		
DTIK_SEL	ADN: Density Tick Channel Name	----	LSAZ		
DTMUD	Delta-T for Mud	US/F	237.589		
DYN_IMG_COMPUTE	Generate Dynamic Normalized Image?	----	YES		
ECC_CORR_ADN	Perform Eccentering Correction for TNPH?	----	YES		
ENVCOR	Neutron Processing: Environmental Correction?	----	YES		
EVRL	EVR Process averaging number of samples (RM)	----	49		
FCD	Future Casing (Outer) Diameter	IN	TBA		
GCSE	Generalized Caliper Selection	----	BS		
HPS	ADSE-EB (High Pressure Inconel Chassis)?	----	NO		
IBS	Intergal Blade Stabilizer Collar?	----	NO		
IDQT	Image Derived Quality Threshold	----	2.000		
IHVS	Integrated Hole Volume Start Value(RM)	F3	0.000		
IMAGE_MAX_SOA	Image SOA (Quadrant) Right Scale	IN	2.500		
IMAGE_MAX_SPEF	Image PEF(Segment) Right Scale	----	6.000		
IMAGE_MAX_SRHOB	Image RHOB(Segment) Right Scale		G/C3	2.650	
IMAGE_MIN_SOA	Image SOA (Quadrant) Left Scale	IN	0.000		
IMAGE_MIN_SPEF	Image PEF(Segment) Left Scale	----	2.000		
IMAGE_MIN_SRHOB	Image RHOB(Segment) Left Scale		G/C3	2.050	
JSD_ADN	ADN Acquisition start date	G/C3	2.050		
LITHO_TYPE_ADN	Lithology (RM)	----	LIME		
N1FTU_6_RM	ADN: Neutron Bank 1 Far Tubes used :	----	1-2-3		
N2FTU_6_RM	ADN: Neutron Bank 2 Far Tubes used :	----	1-2-3		
NNTU_RM	ADN Neutron Near Banks Used	----	1-2		
NTIK_SEL	ADN: Neutron Tick Channel Name	----	FR11		
RSD	LWD run start date dd-mmm-yy	----	22-Jun-09		
RWA_COMP_MOD	Rwa computation model	----	BASIC		
RWA_DEN_ADN	Rwa Density Input	----	RHOB		
RWA_DEN_CDN	Rwa Density Input	----	RHOB		
RWA_DEN_INPUT	Rwa Density Input	----	RHOB		
RWA_FORM_MOD	Rwa computation formation model	----	CLASTIC		
RWA_RES_INPUT	Rwa computation resistivity input	----	RT		
SOCNL	Standoff Distance of the CNL Tool	----	1.000		
SSIZ_ADN	ADN Stabilizer Size	IN	9.331		
STOH	ADN Density Top of Hole Sector (Left Boundary):	----	SECTOR_0		
TRPM_RM	Average Tool Rotational Speed	RPM	20.000		
USMIN_RM	ADN:Minimum Ultrasonic standoff (RM)	IN	0.180		
USWF_RM	ADN:Process Ultrasonic Waveform?	----	YES		
VERS_ADN	ADN Downhole Software Version	----	8.400		
WSDI	Window Size of Dynamic Normalization Image	M	15.240		
ARC					
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	DB	8.950		
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.936		

A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	6.014	
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	5.566	
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	5.543	
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	3.912	
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	3.936	
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	DB	4.116	
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	DB	4.099	
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB		
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed	
ADHS	ARC Down Hole Software Version	----	v9.3b13	
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000	
ANISO_COMPUTE	Anisotropy Computation Option	----	YES	
APICG	ARC5 Gamma Ray Gain Factor	----	1.046	
APIG	ARC Gamma Ray API Gain Factor	----	-1.000	
ARC_DATA_FIX	ARC: Create A Corrected ARC Time Data File	----		NO
ARC_DATA_LTB	ARC: Create An ARC LTB Data File	----		NO
ATMP_ARC	ARC Select Temperature Channel	----	Annulus_Temp	
ATRN	ARC Tool Run Number	--	SLB #2, RIG #4	
ATSN	ARC Tool Serial Number	----	VX02	
AZMF	Formation DIP Azimuth	DEG	0.000	
BH_COMPUTE	Borehole Inversion Computation Option	----		YES
CALG	ARC Gamma Ray Cal Gain Factor	----	1.046	
CALI_SLCT_ARC	ARC Caliper Selection	----	BITSIZE	
CDPTH_ARC	Process Start Depth	M	30.480	
DIELEC_COMPUTE	Dielectric Computation Option	----		YES
DIPF	Formation DIP Angle	DEG	0.000	
ERRCT	Percentage Error Cutoff	----	4.500	
GRSH	GR Shale (Invasion Computation Cutoff)	GAPI	1000.000	
HIGH_BLEND	High Resistivity Threshold for Blending	OHMM	2.000	
INCLIN_B0	ARC Bias Constant (mg)	----	0.000	
INCLIN_B1	ARC Bias First-order Coefficient (mg/degC)	----	0.000	
INCLIN_B2	ARC Bias Secod-order Coeeficient (mg/degC)	----	0.000	
INCLIN_B3	ARC Bias Third-order Coeeficient (mg/degC)	----	0.000	
INCLIN_C0	ARC Current Scale Factor Constant (mA/g)	----	1.000	
INCLIN_C1	ARC Scale First-order Coeeficient (mA/g/degC)	----	0.000	
INCLIN_C2	ARC Scale Second-order Coeeficient (mA/g/degC)	----	0.000	
INCLIN_C3	ARC Scale Third-order Coeeficient (mA/g/degC)	----	0.000	
INVAS_COMPUTE	Invasion Computation Option	----		YES
JSD_ARC	ARC Acquisition start date	----	YES	
KPER	Potassium Concentration (RM)	----	0.000	
LOW_BLEND	Low Resistivity Threshold for Blending	OHMM	1.000	
MSWS	ARC Wizard Model Switch Window	M	1.524	
MULTIEFFECT_COM	Multi Effect Option	----	YES	
P11AC_RM	ARC: Air Calibration For Phase T1 to R1	DEG	-999.250	
P12A	ARC Air Cal Phase-Shift From T1 at 2 MHz	DEG	0.090	
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	1.267	
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-0.053	
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	-1.300	
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	-0.001	
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	1.279	
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-0.105	
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	-1.349	
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	0.002	
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	1.278	
POFFSET_ARC	ARC: Pressure Offset	PSI	0.000	
PRTD	Preferred Resistivity Log for Rt Display while Multi-Effects	----		P34B
PSOF_ADJ_T1	ARC: User Input Phase offset	DEG	0.000	
RESTIK	ARC resistivity tick source	----	Phase	
SHIG	ARC High Shock Risk Level	CPS	0.500	
SMED	ARC Medium Shock Risk Level	CPS	0.330	
SMIN	ARC Minimum Shock Risk Level	CPS	0.160	
SUPD	ARC Real Time Shock Update Rate	S	30.000	
TCODE_ARC	ARC Tool File Code	S	30.000	
TSIZ_ARC	ARC Tool Size	IN	6.750	
UNIFORM_COMPUTE	Uniform Rock Option	----		YES
VERS_ARC	ARC Down hole software version Number	----	9.300	
WRK	to Report Potassium Concentration (RM)	----	K_by_Wgt_%	

Schlumberger Drilling & Measurements

ID13 Parameter Insert Header Software version 3.0c

## IDEAL Version: ID14\_OC\_14

IDF

Format: VISION Resistivity 2MHz

Vertical Scale: 1:200

Graphics File Created: 27-Jun-2009 21:43

### PIP SUMMARY

→ ARC Gamma Ray Samples

└ ARC Resistivity Samples

ARC Phase-Shift Resistivity 40-in. at 2  
MHz (P40H)

ARC Attenuation Resistivity 40-in. at 2  
MHz (A40H)

0.2 (OHMM) 2000

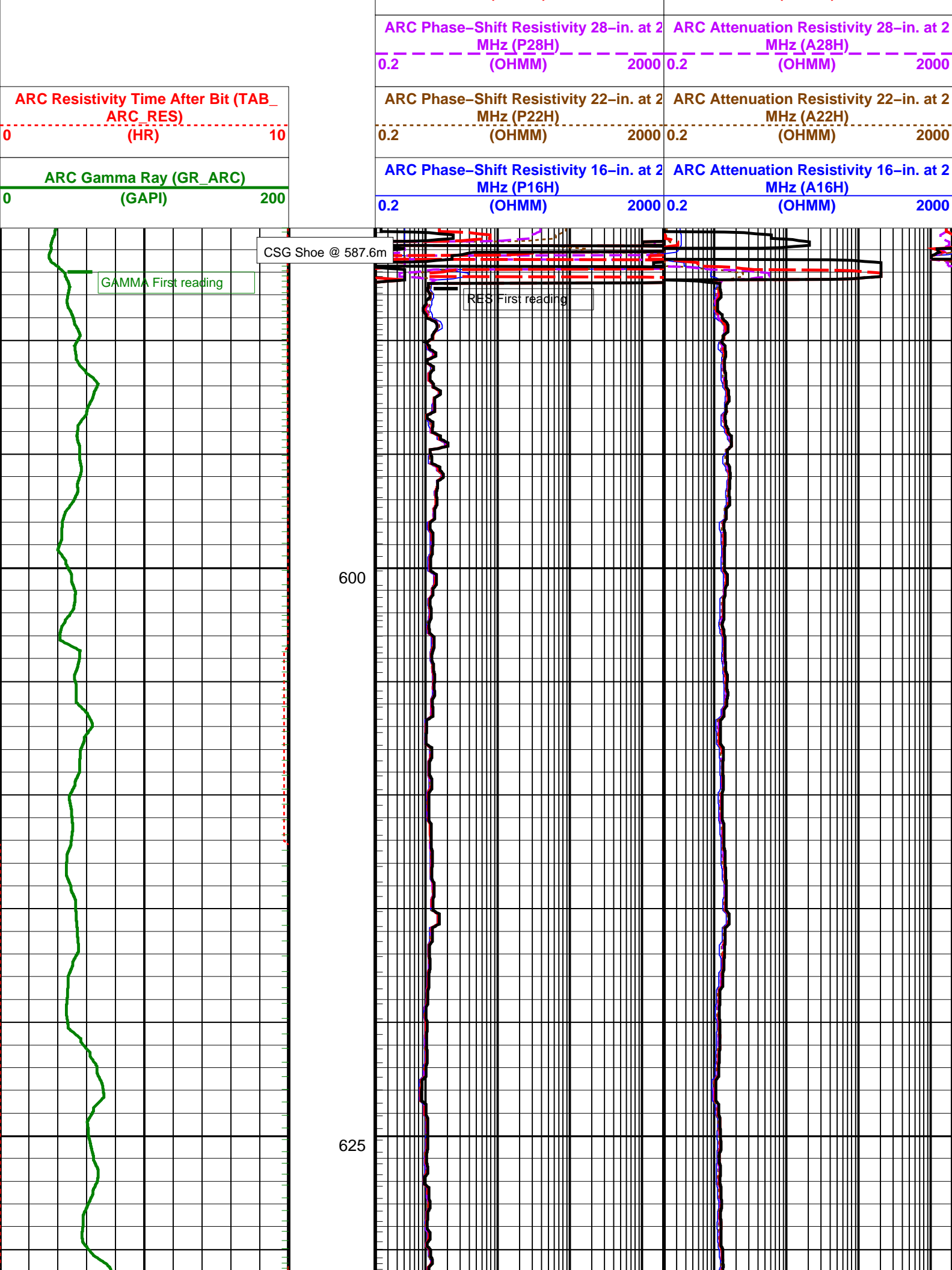
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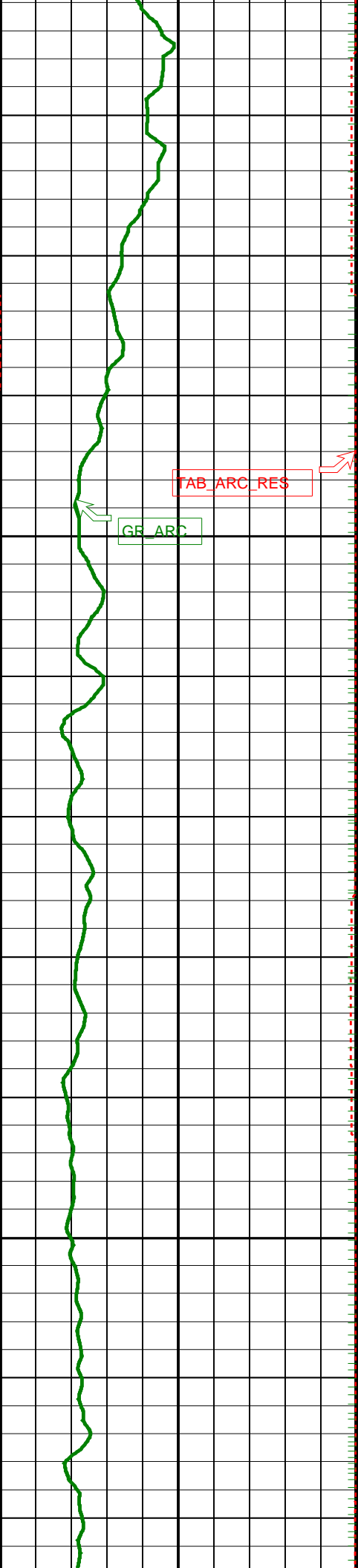
ARC Phase-Shift Resistivity 34-in. at 2  
MHz (P34H)

ARC Attenuation Resistivity 34-in. at 2  
MHz (A34H)

0.2 (OHMM) 2000

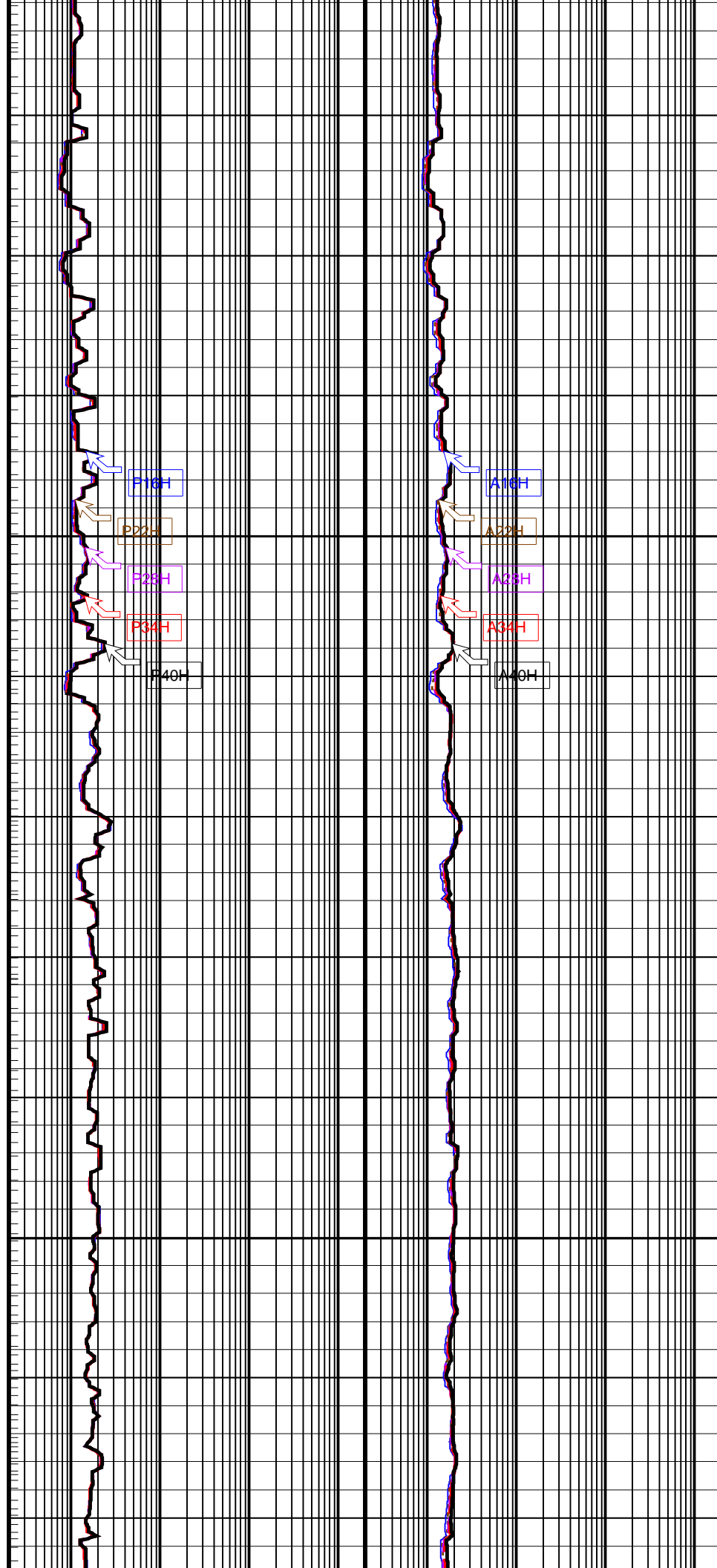
0.2 (OHMM) 2000

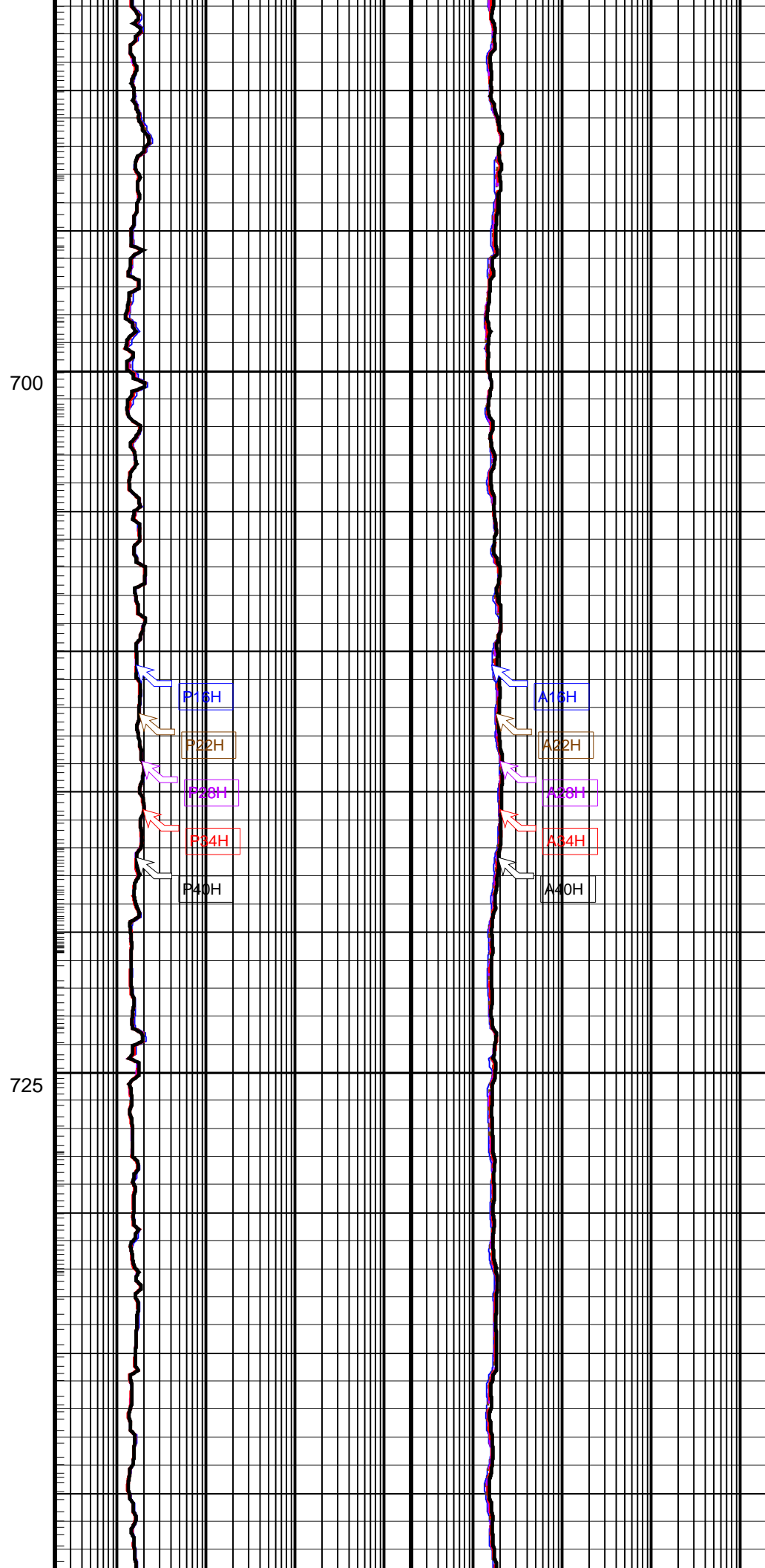
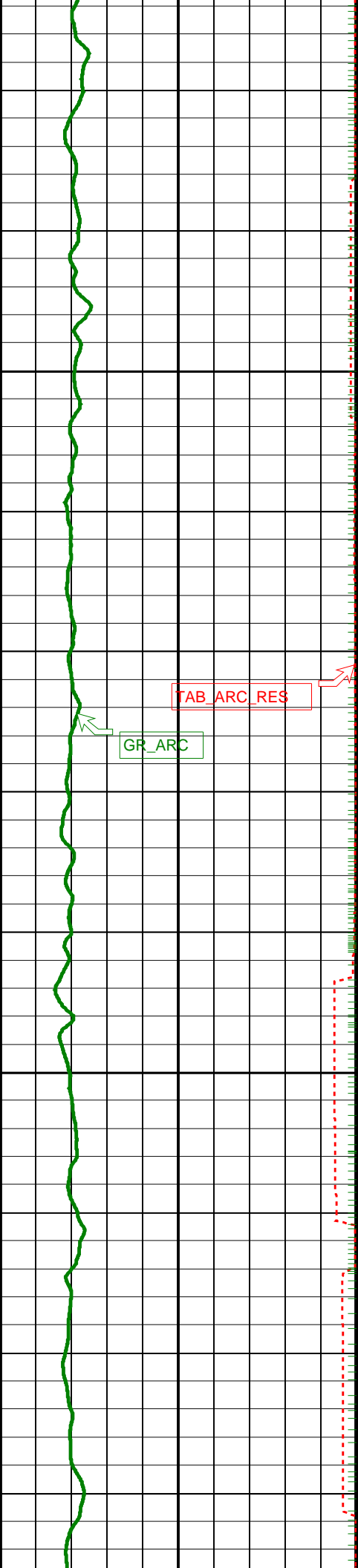




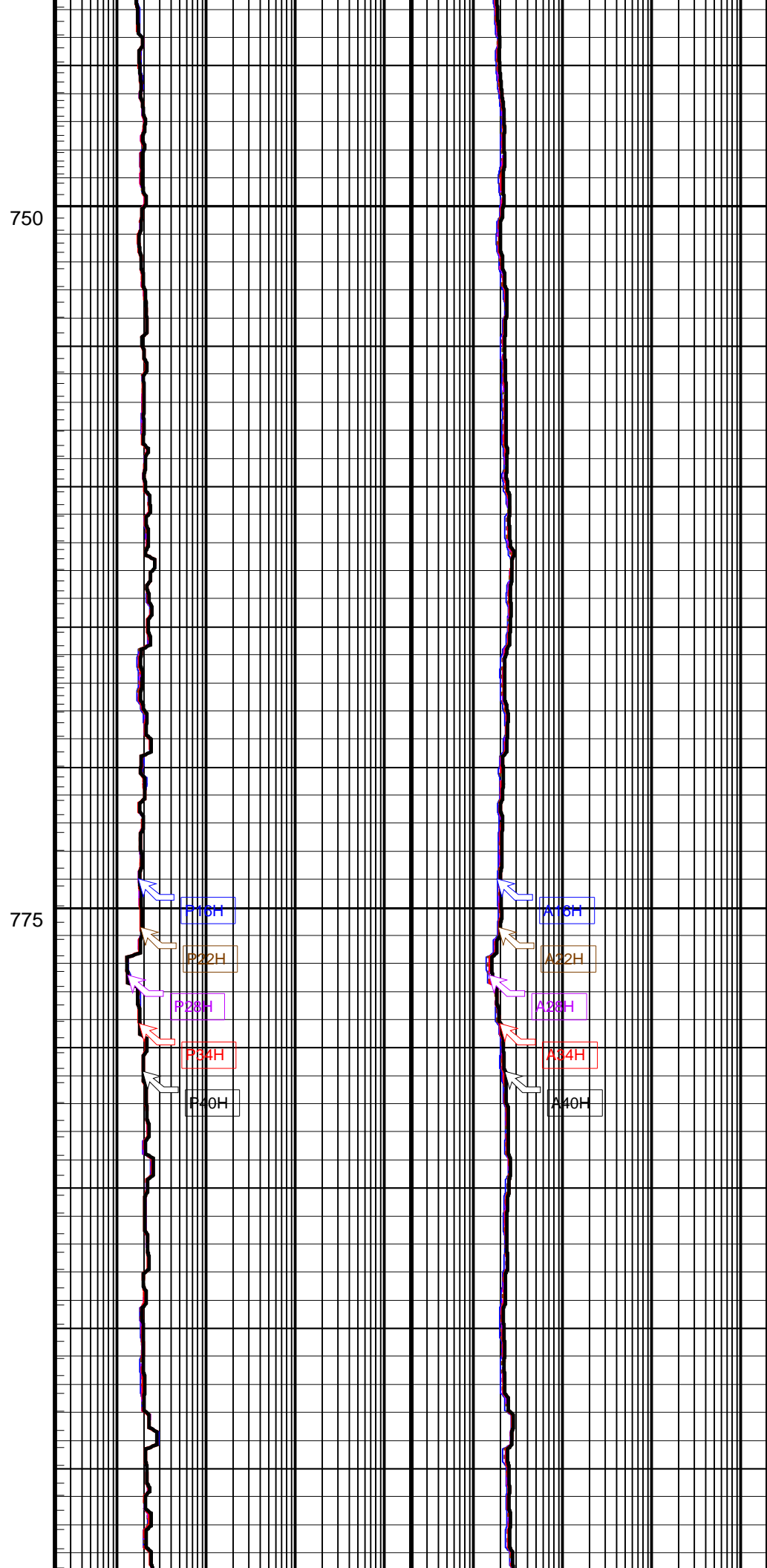
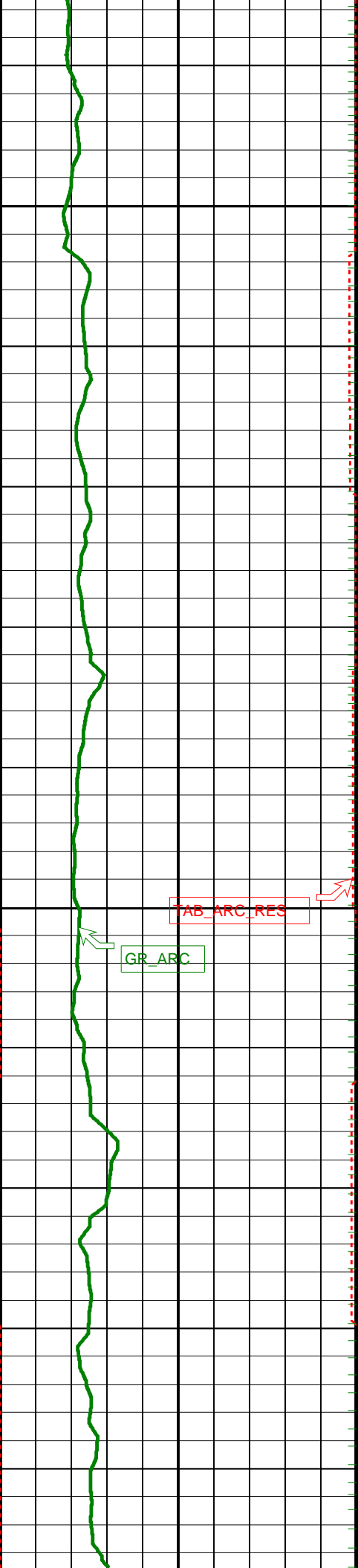
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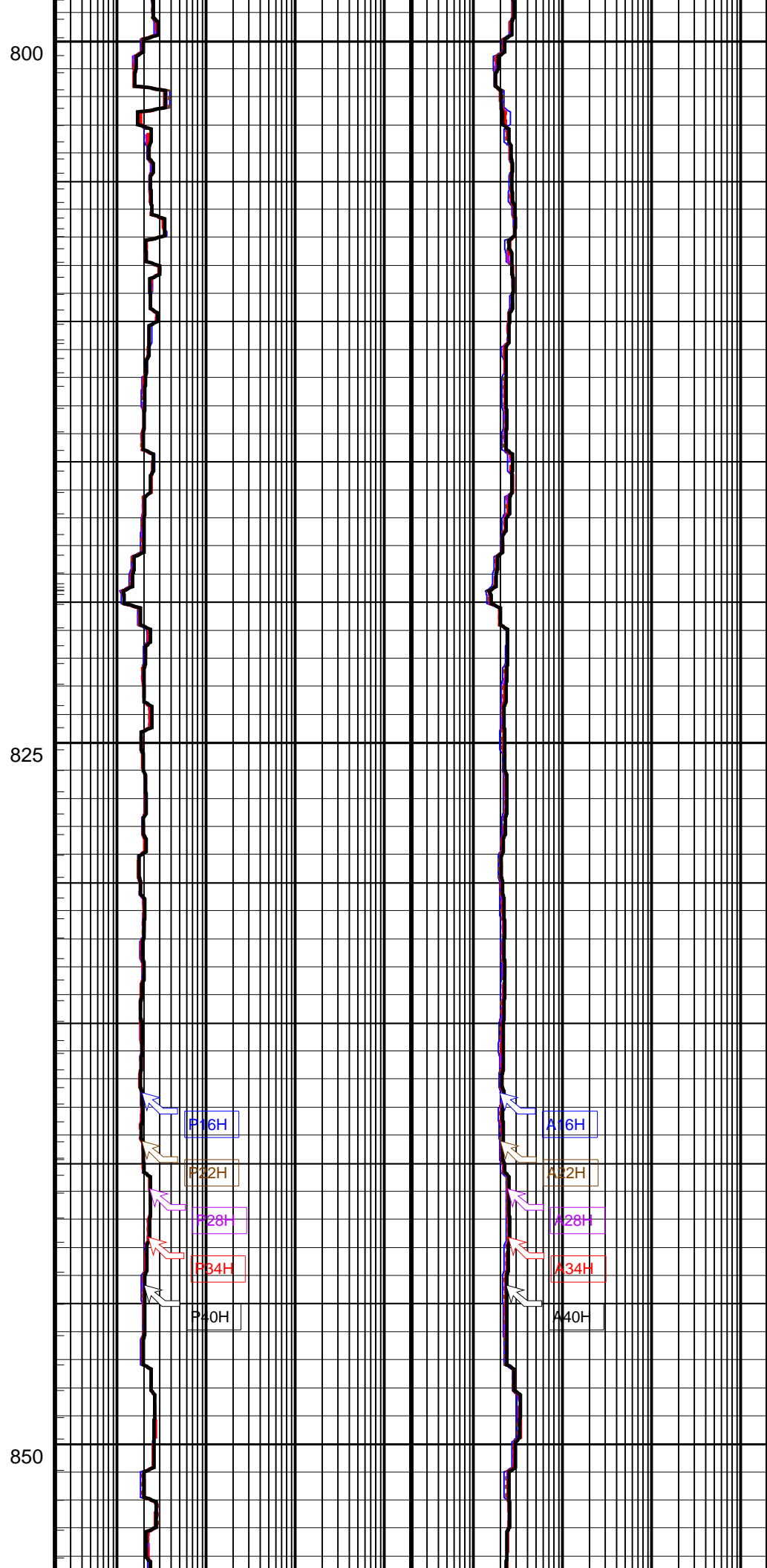
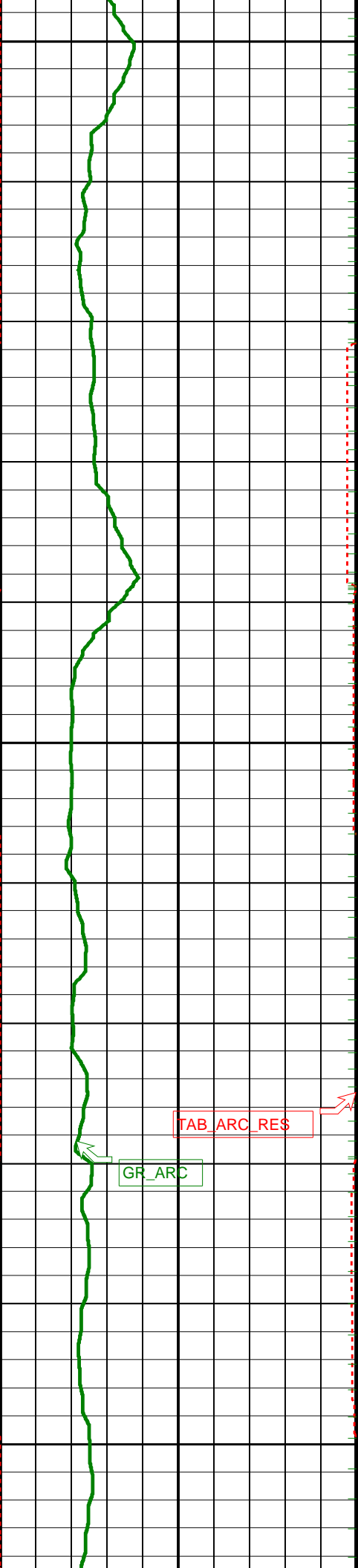
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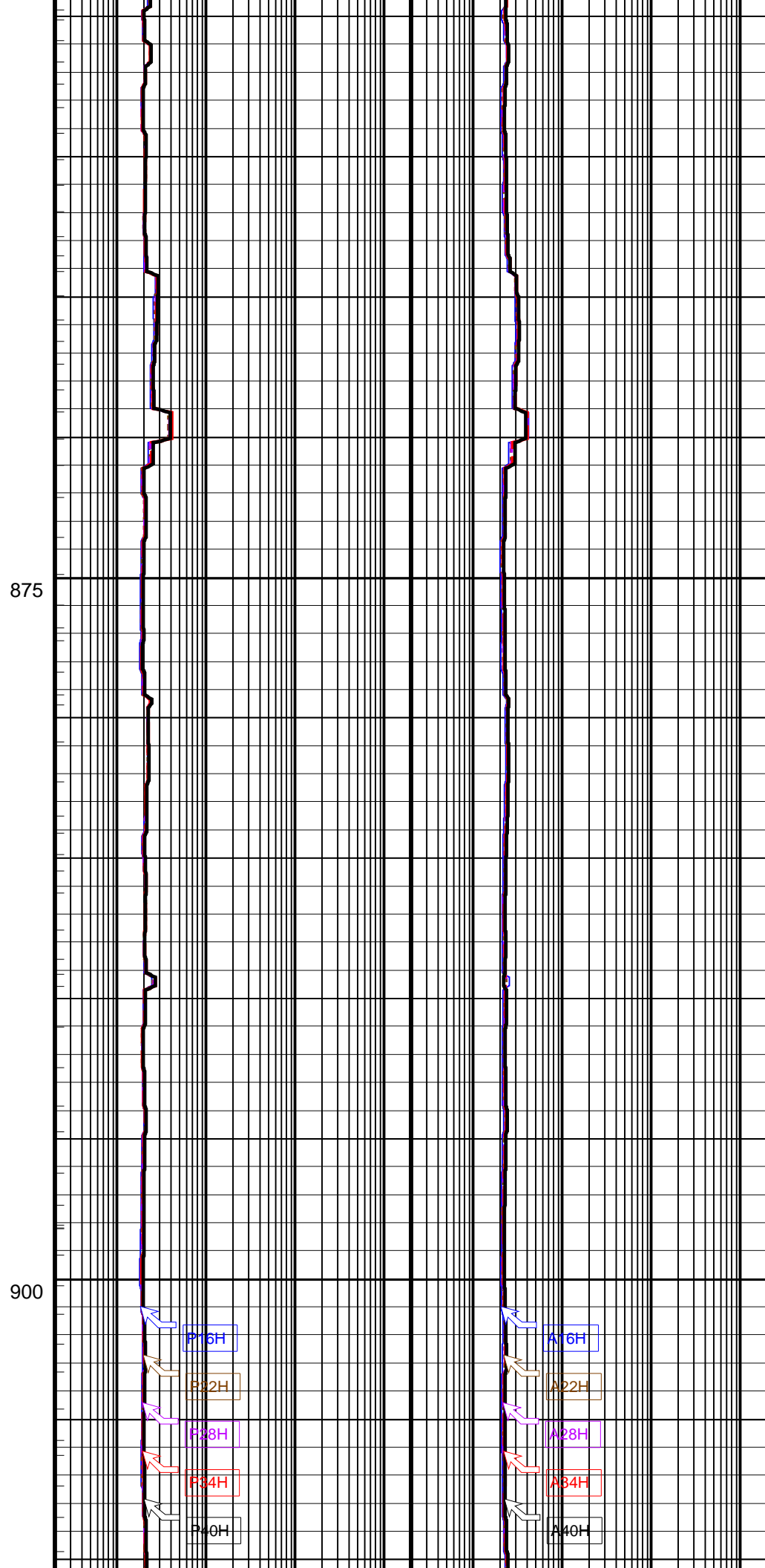
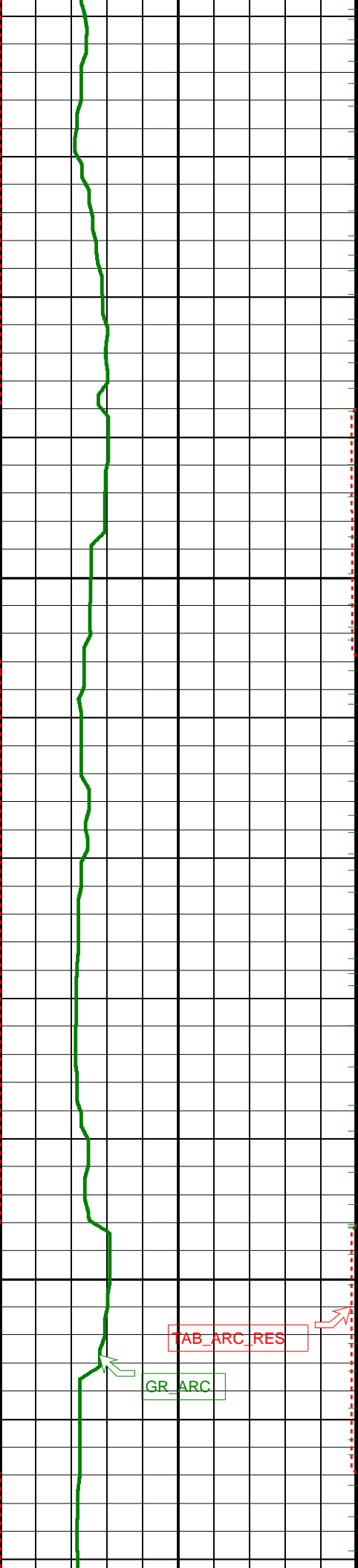


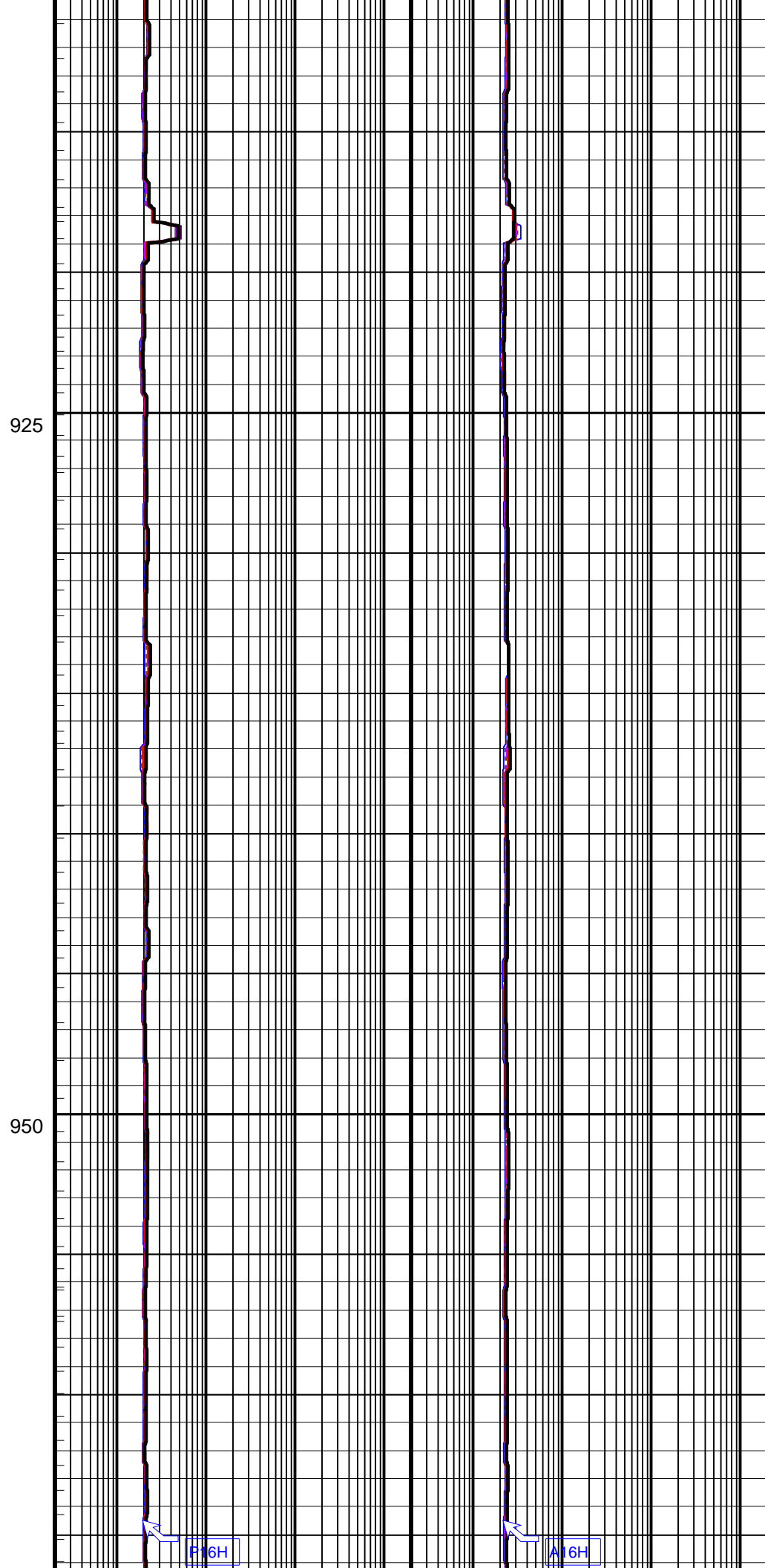
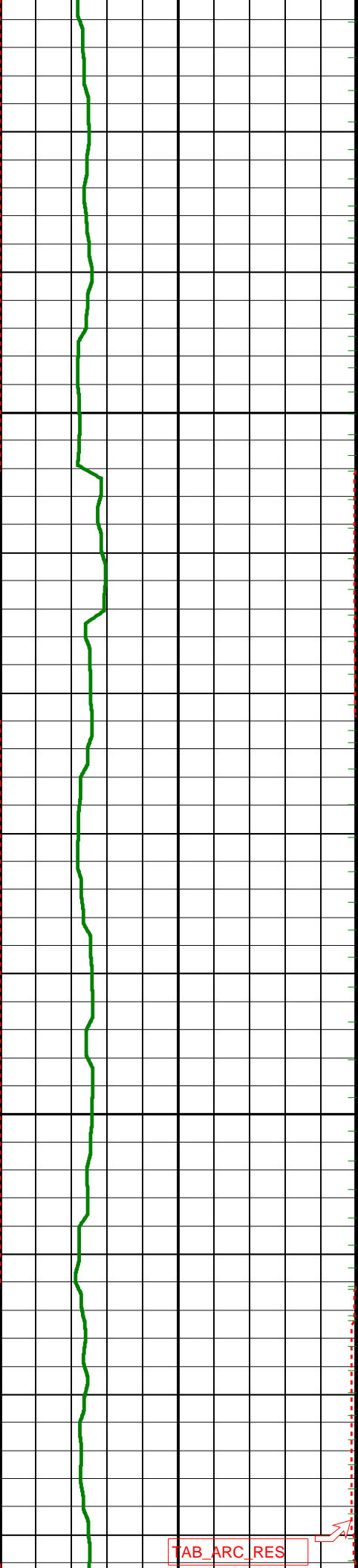


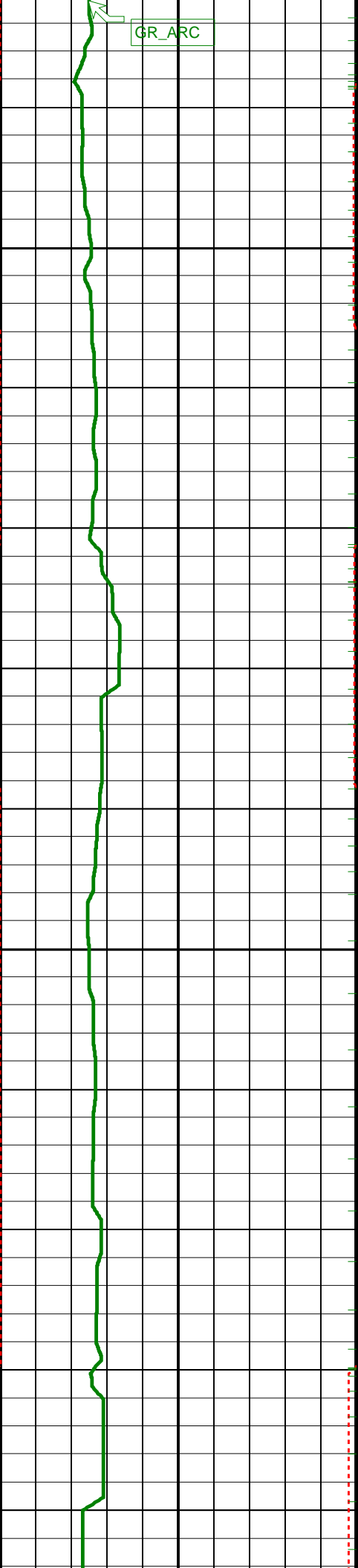






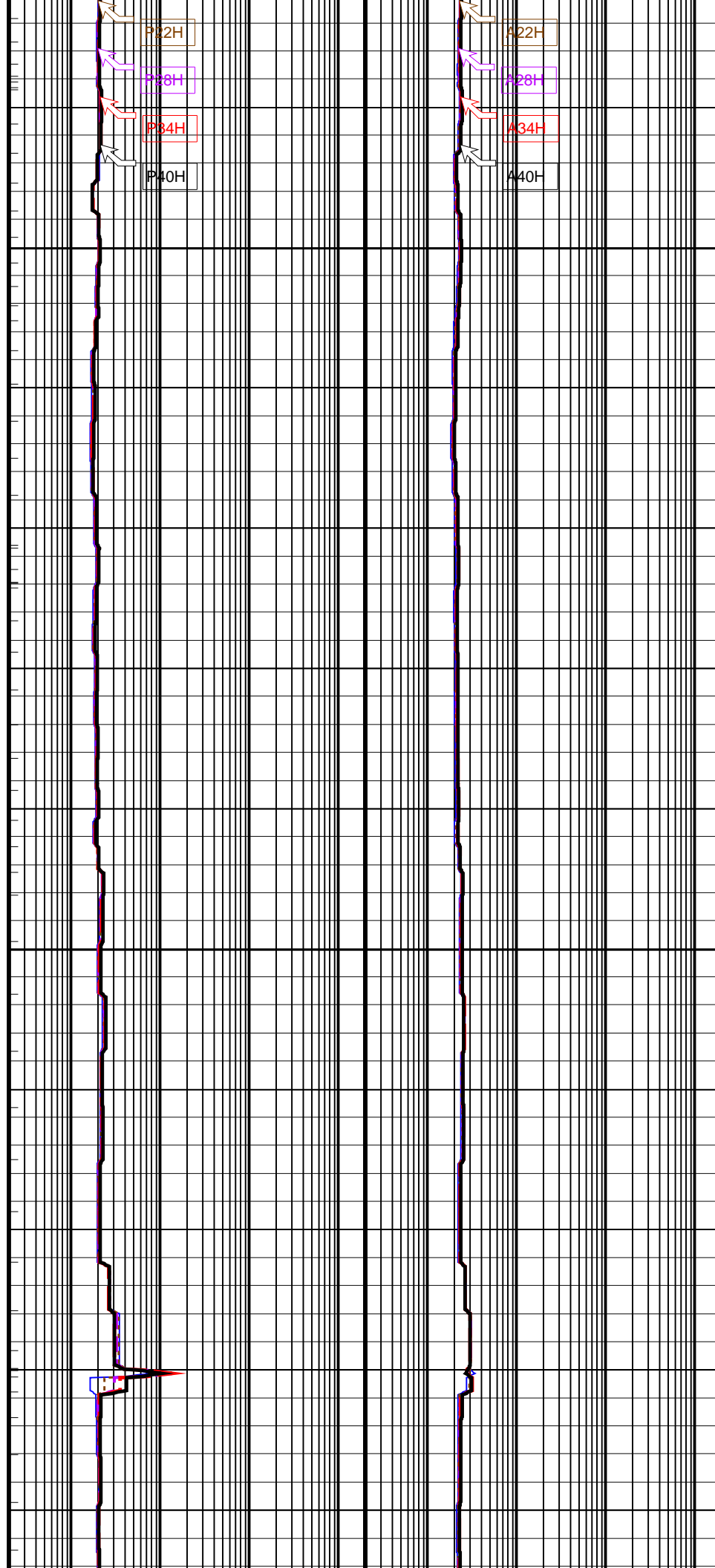


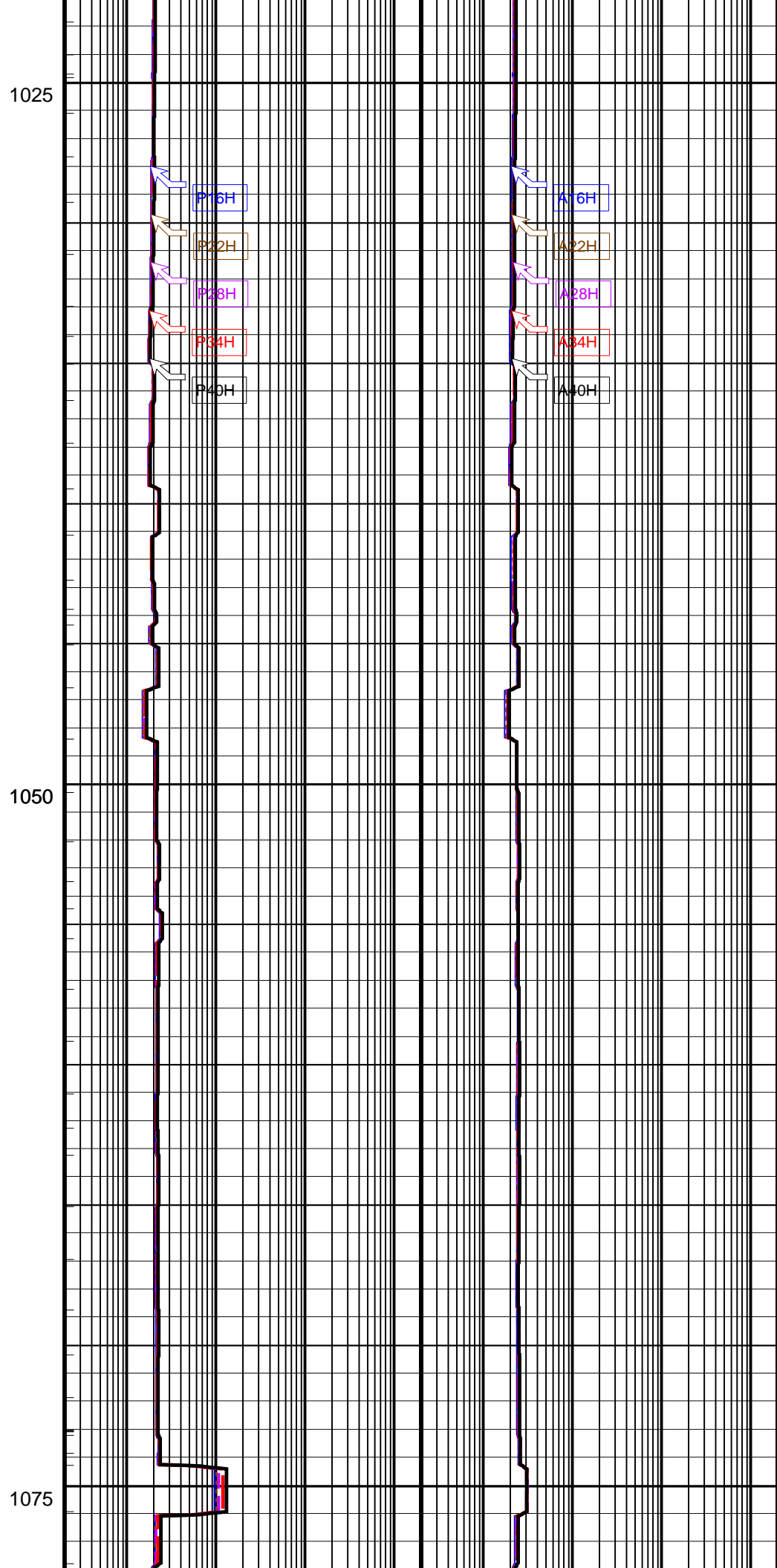
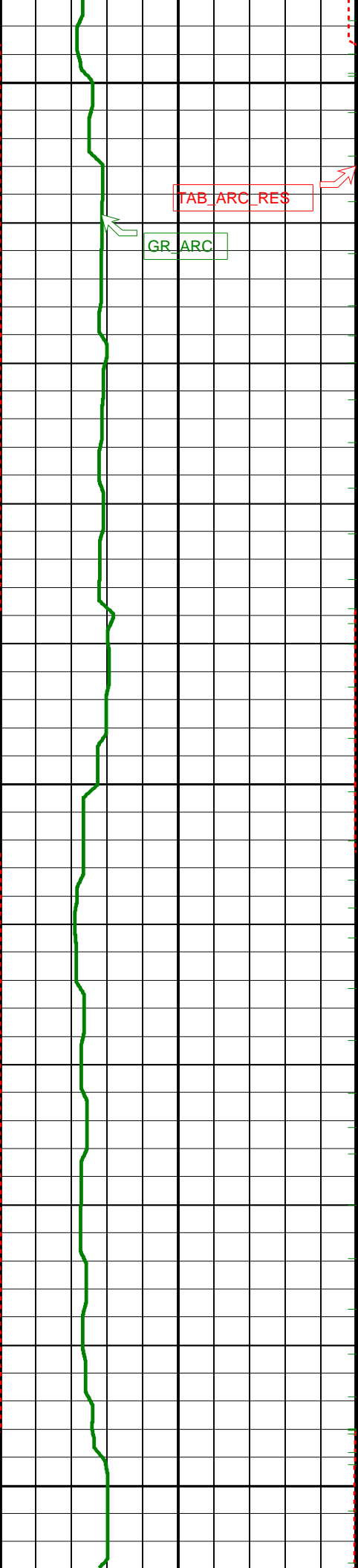


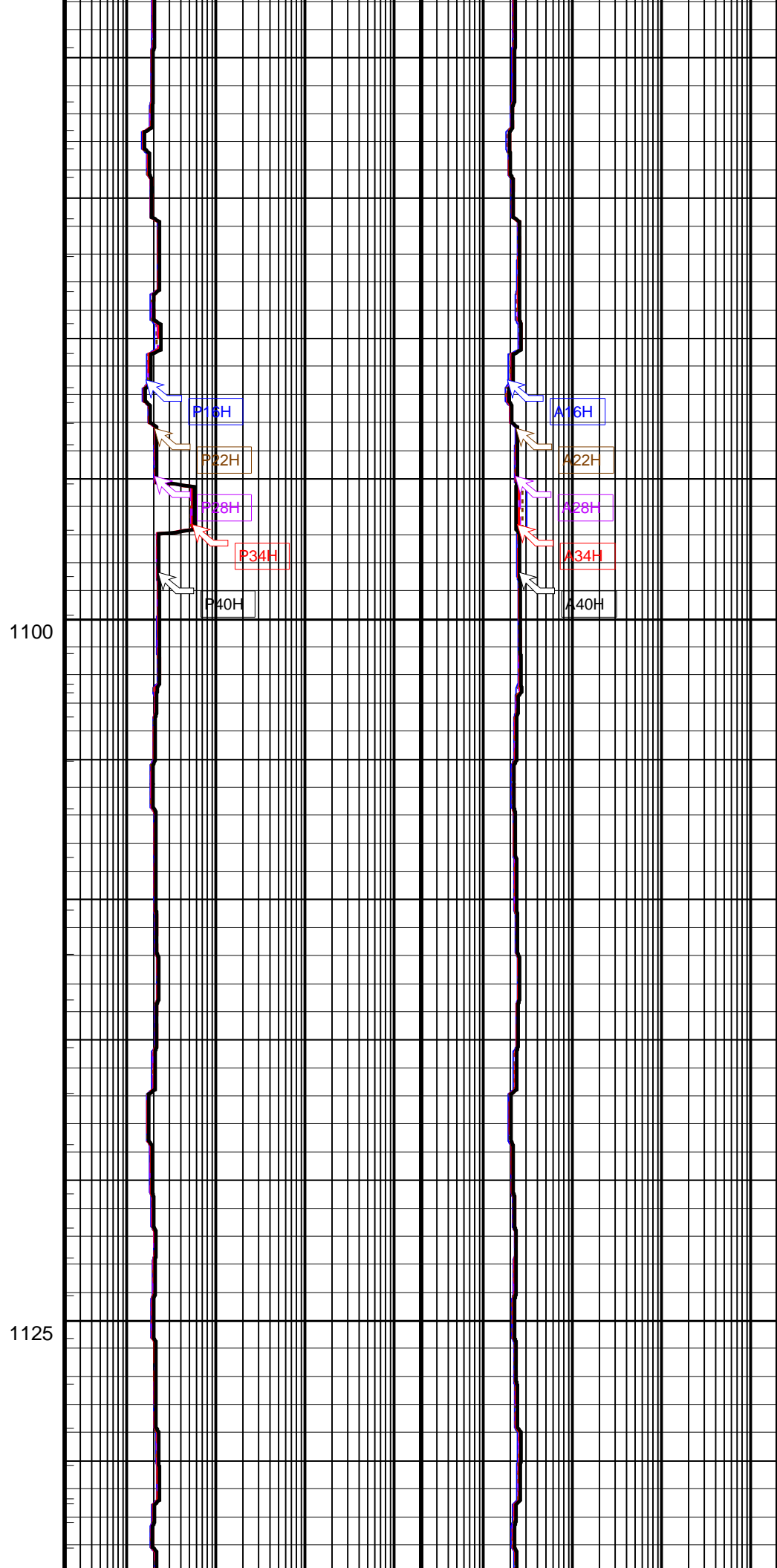
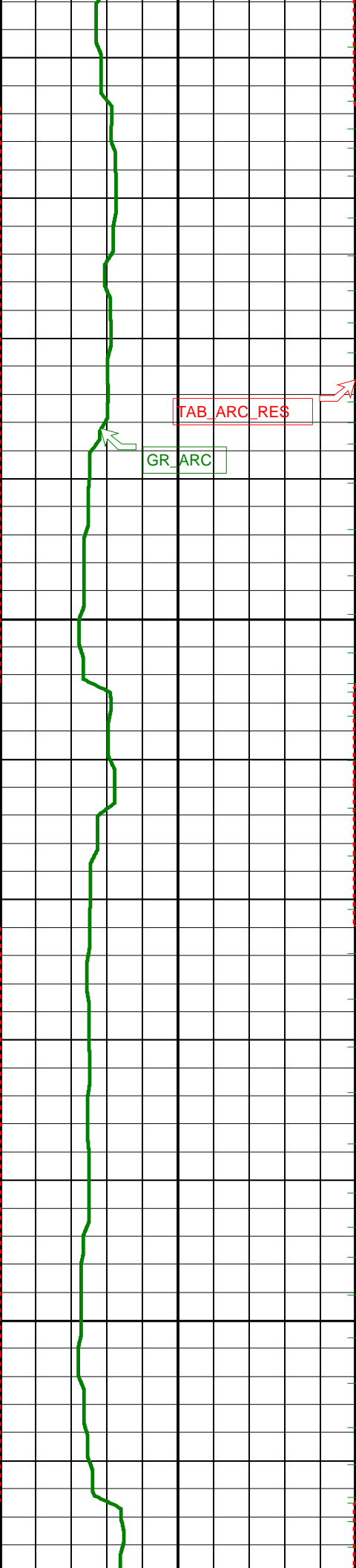


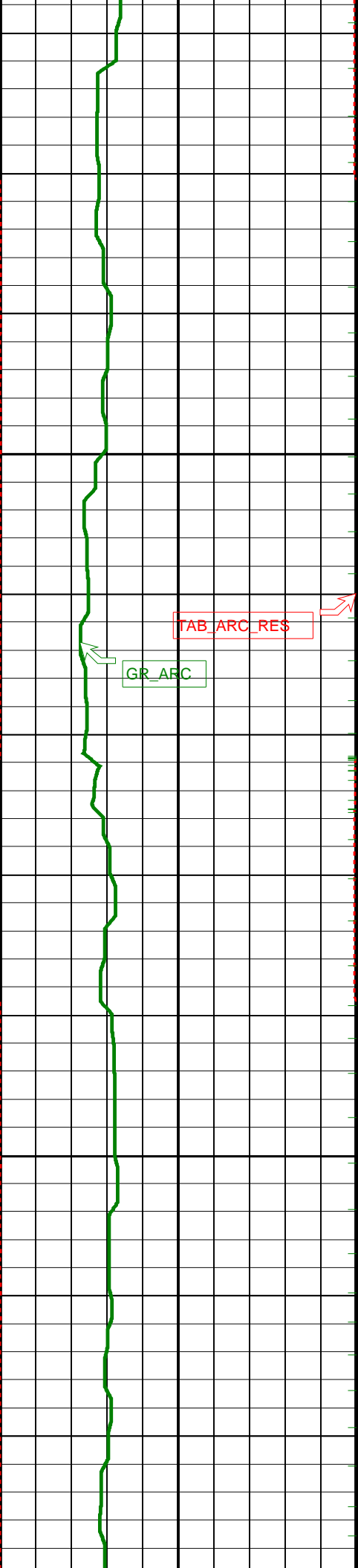
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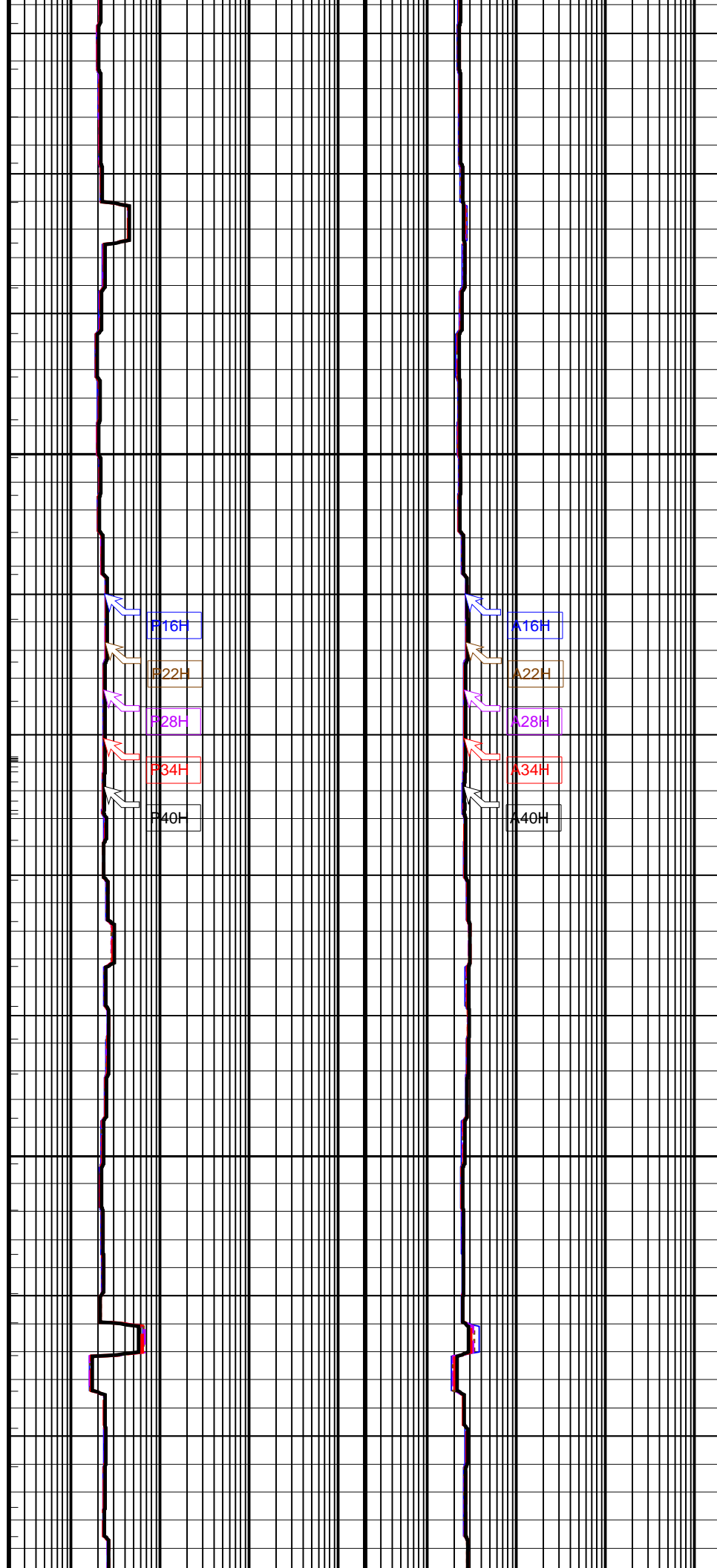




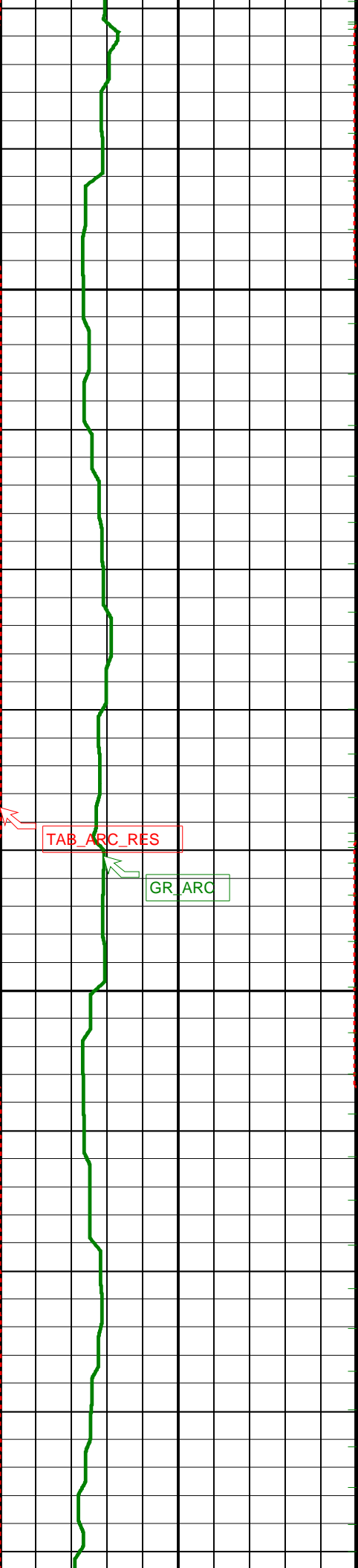


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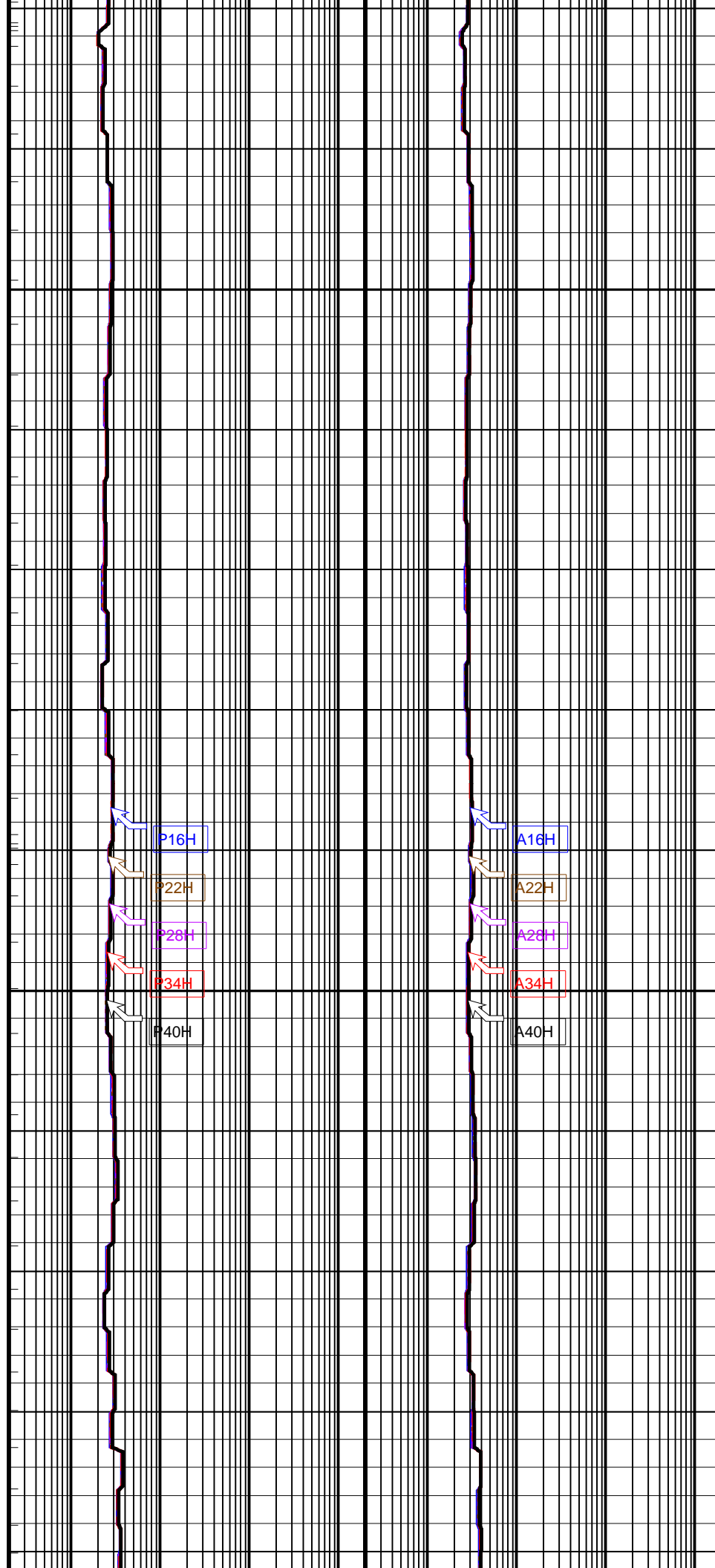


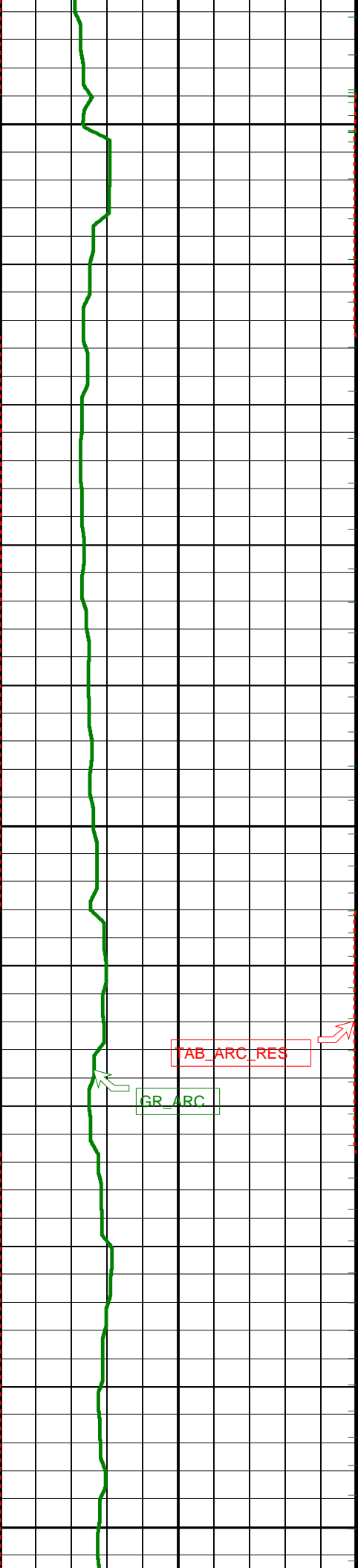




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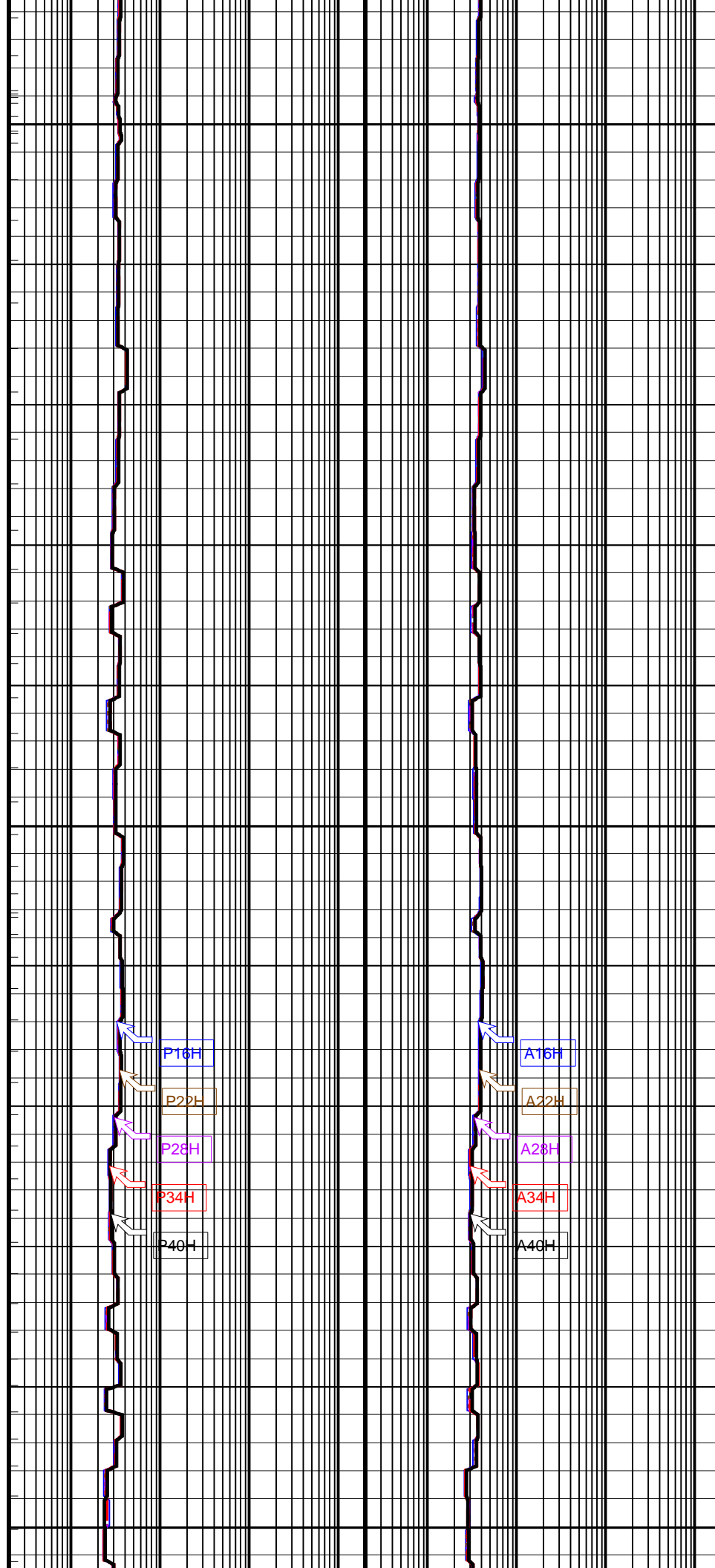


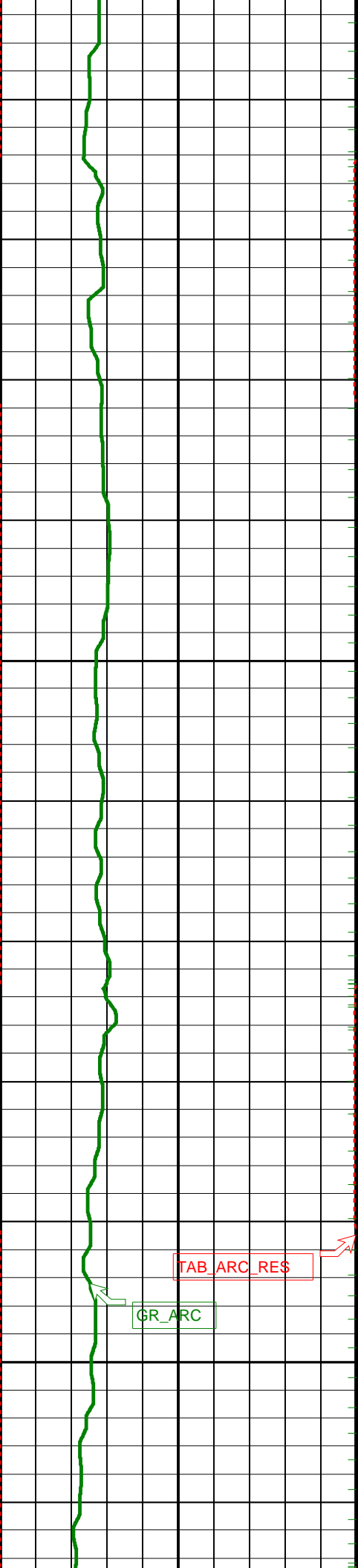


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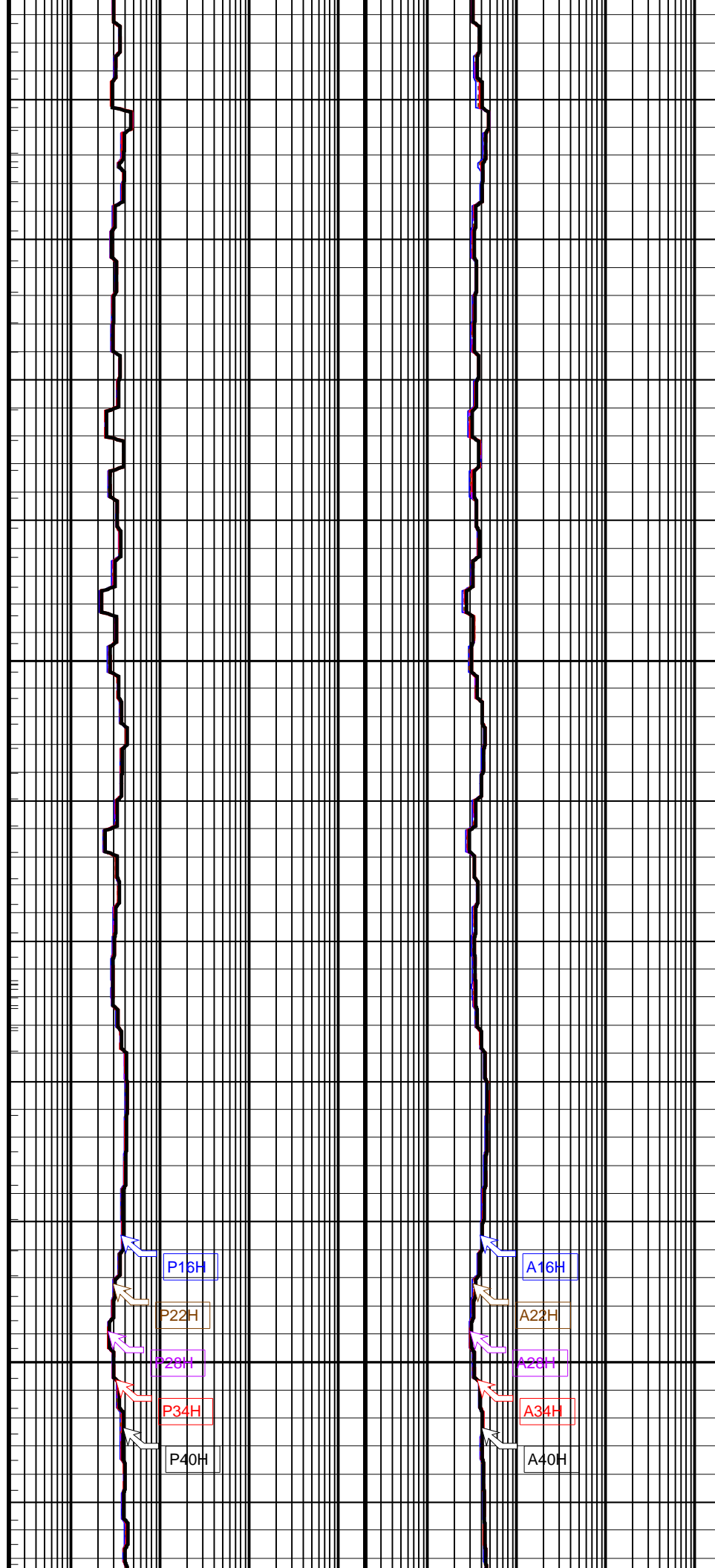
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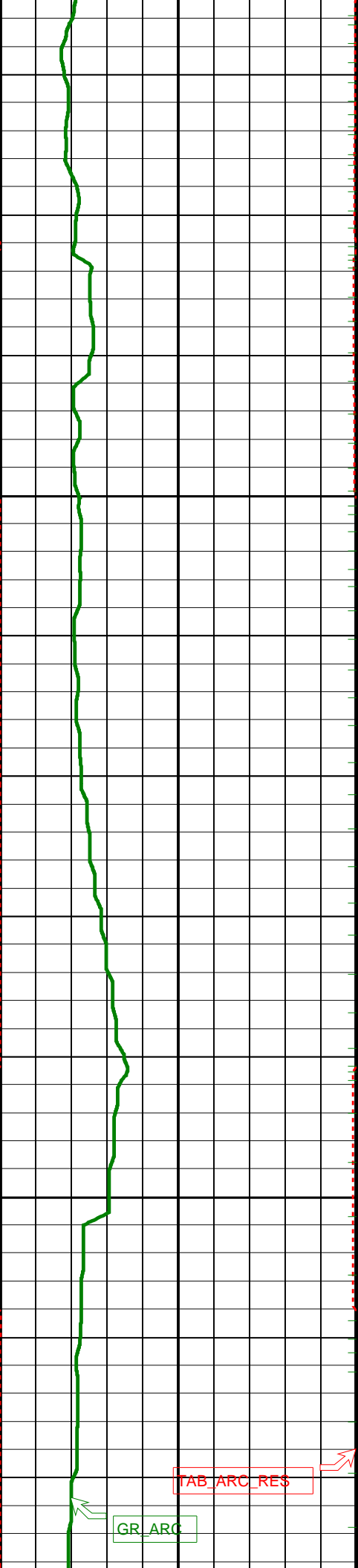




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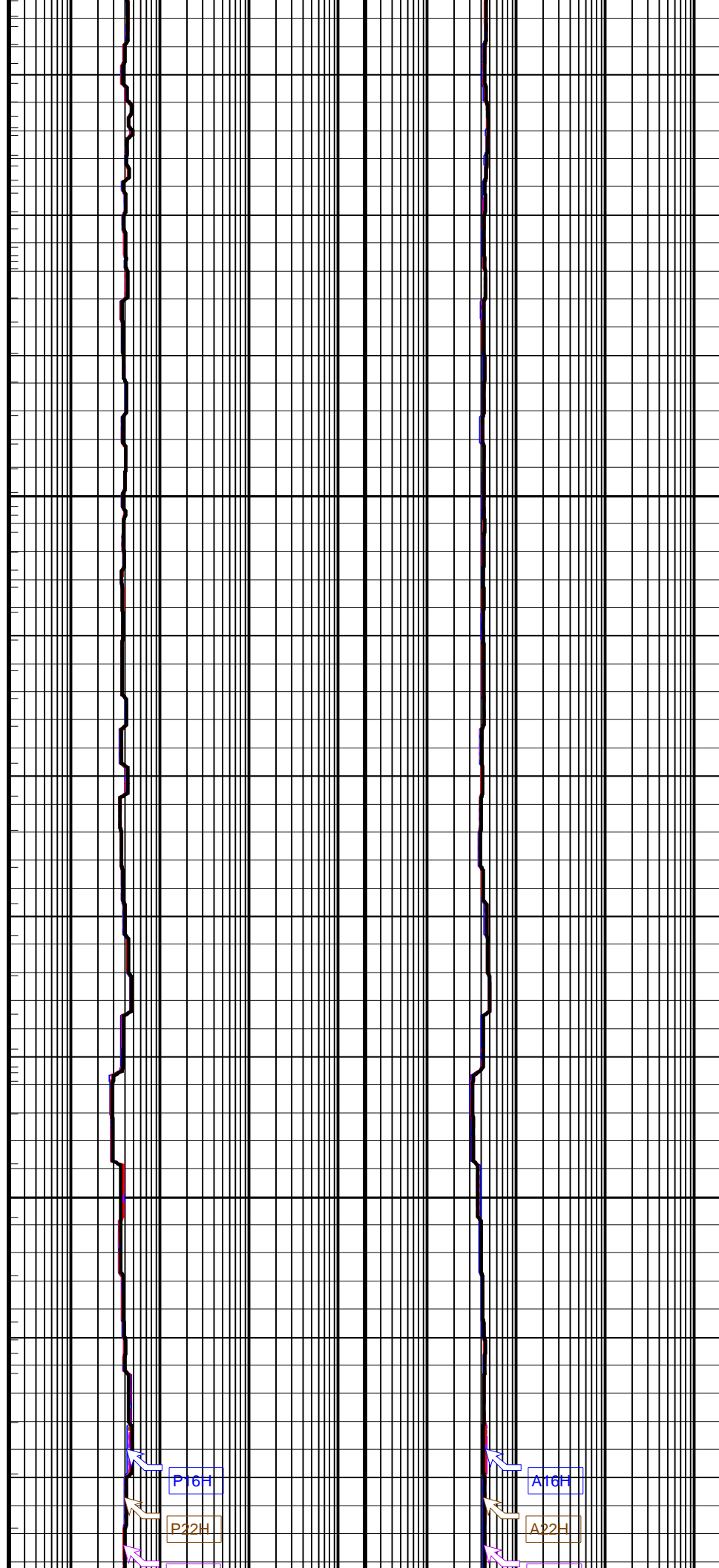
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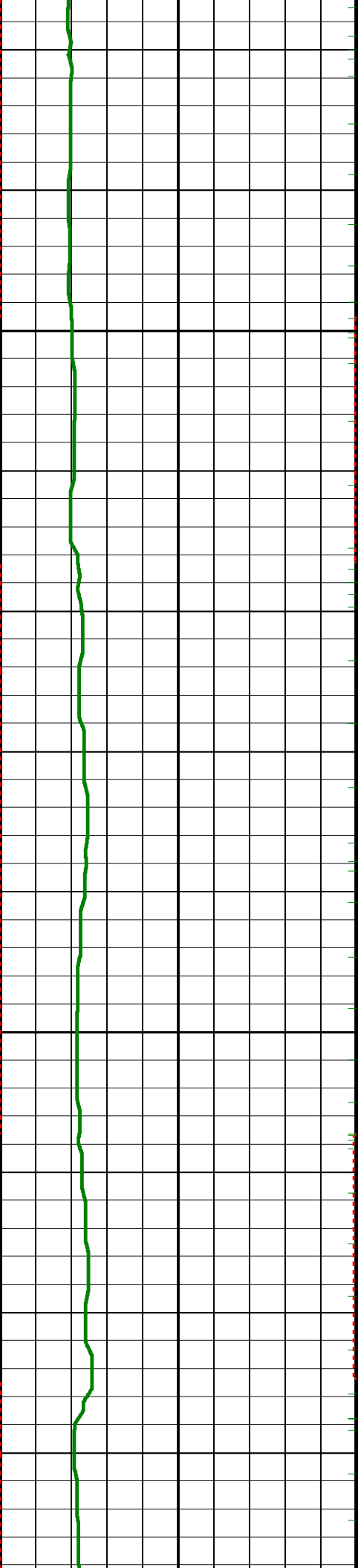




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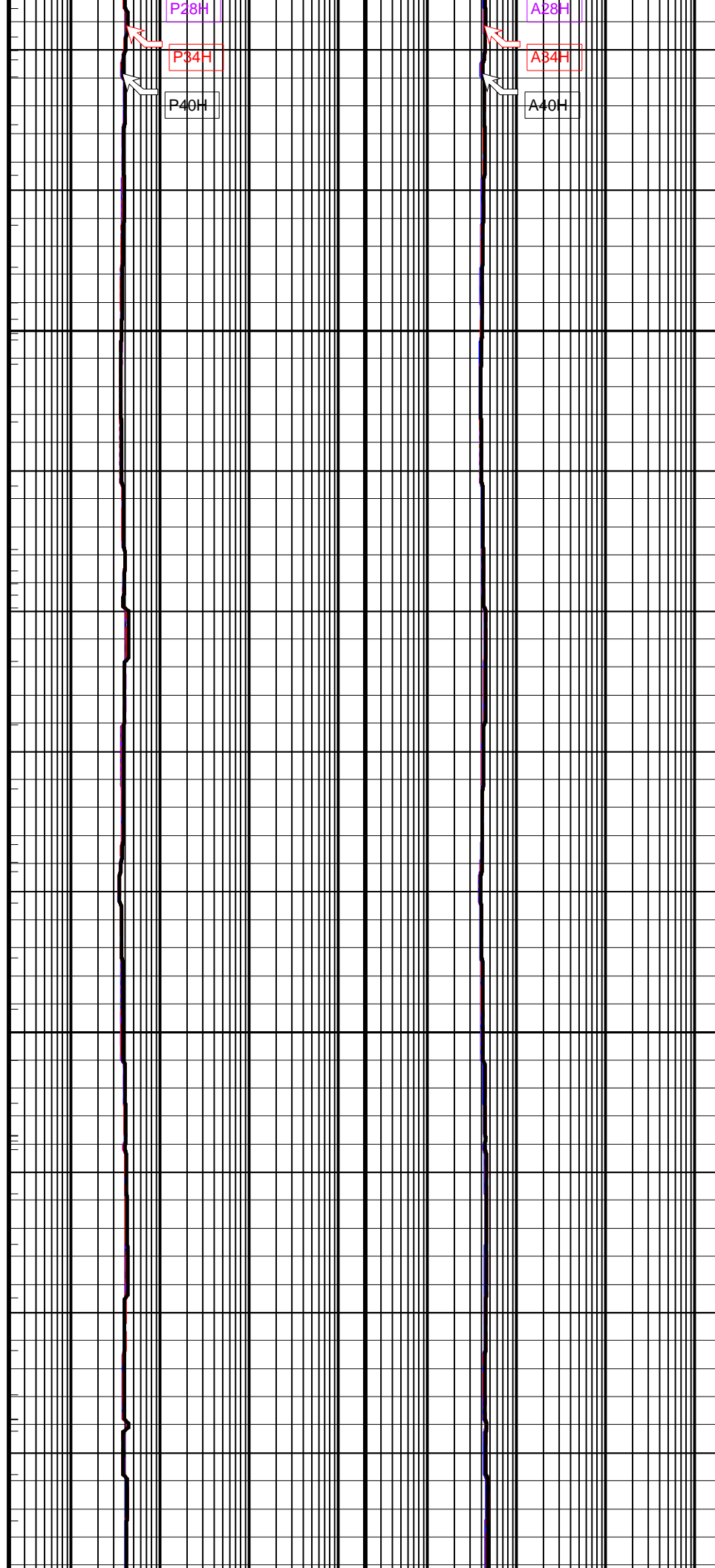
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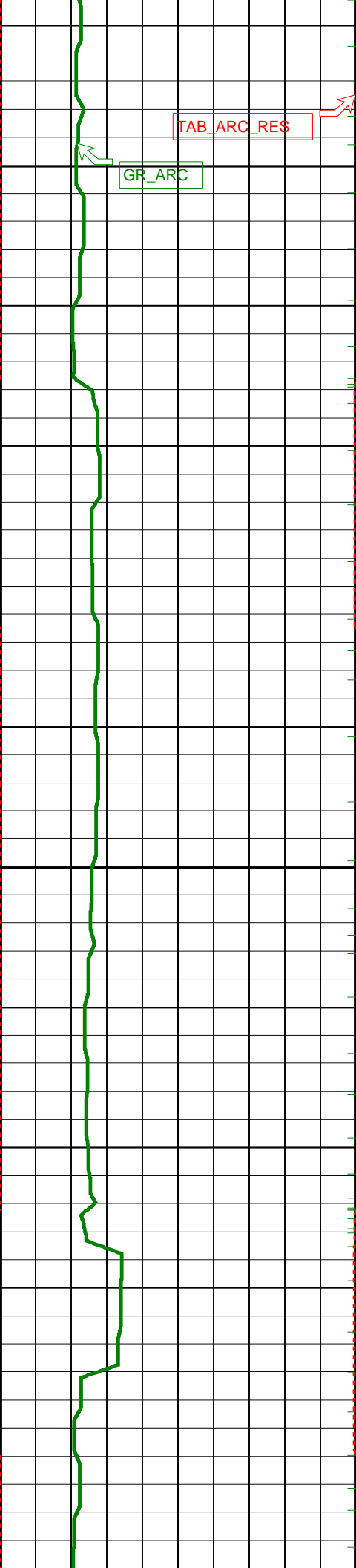




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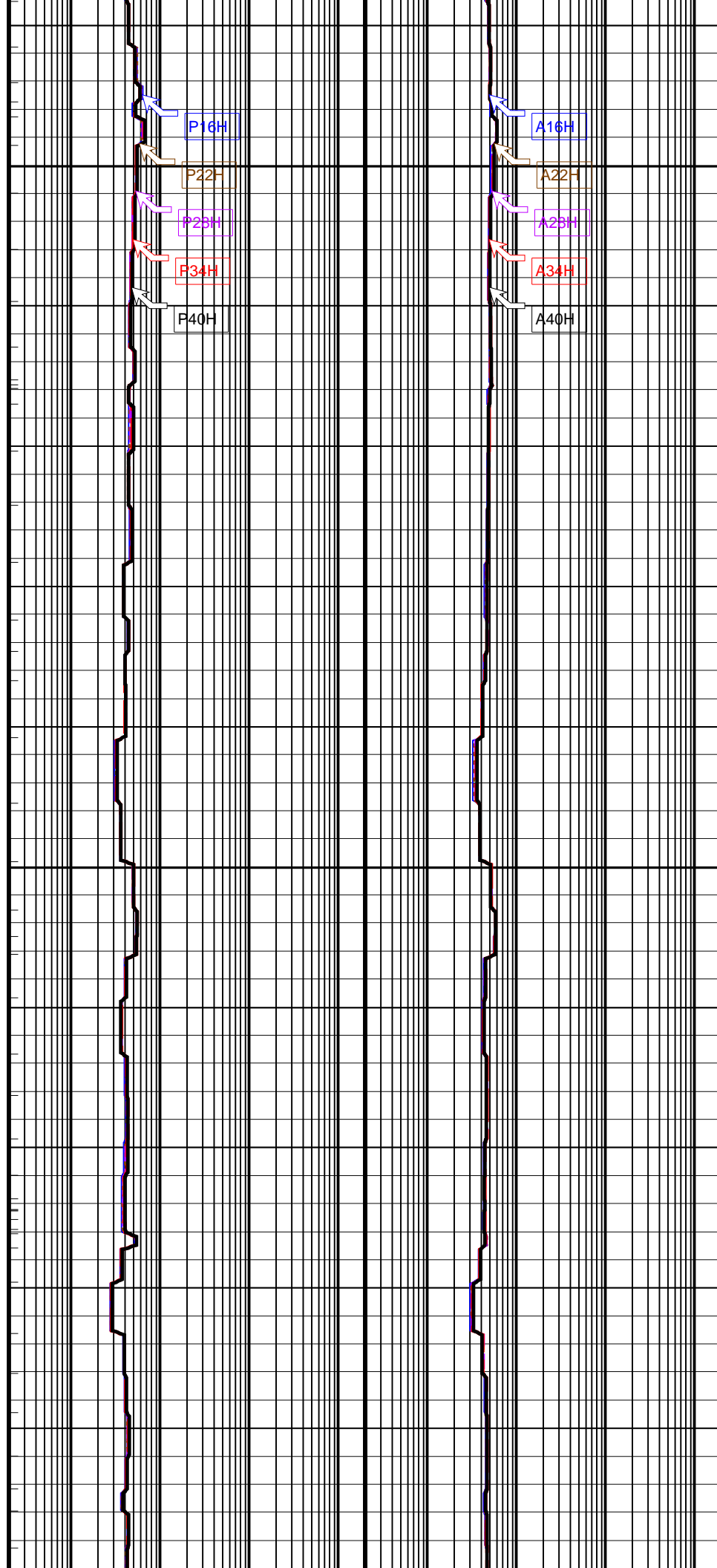
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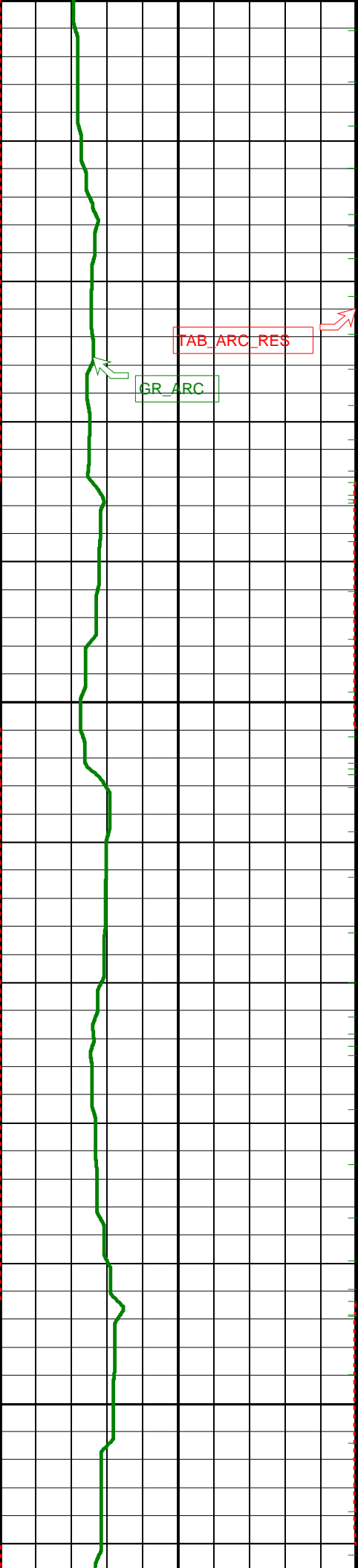




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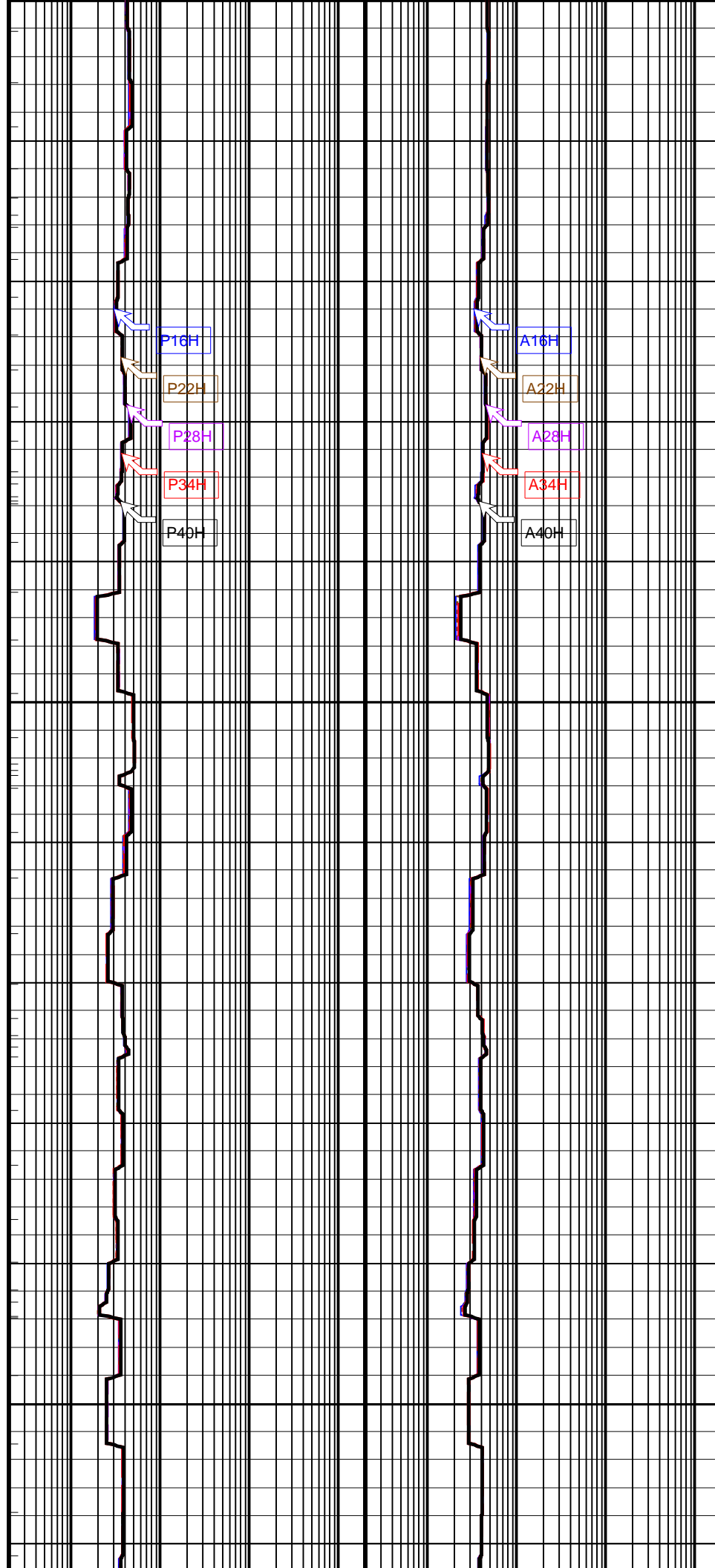


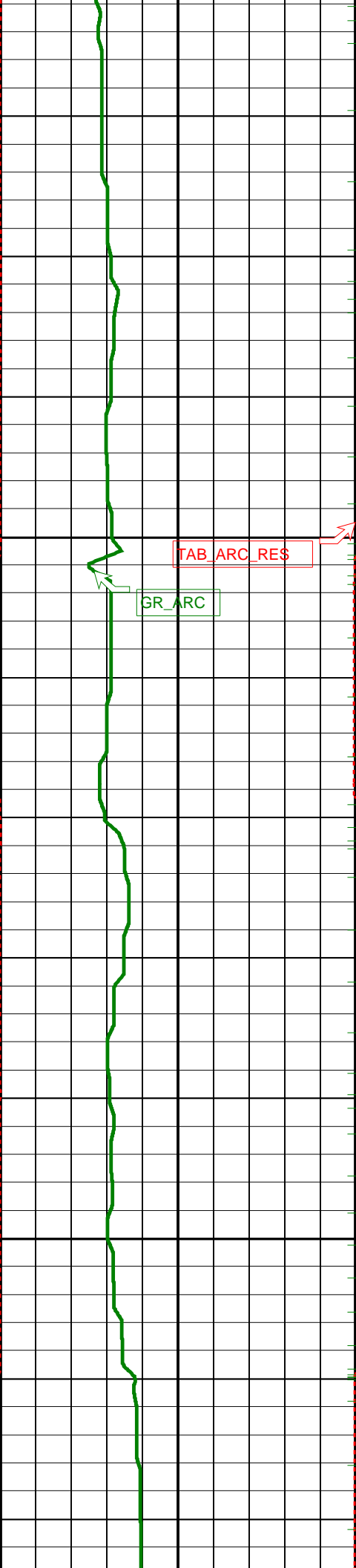


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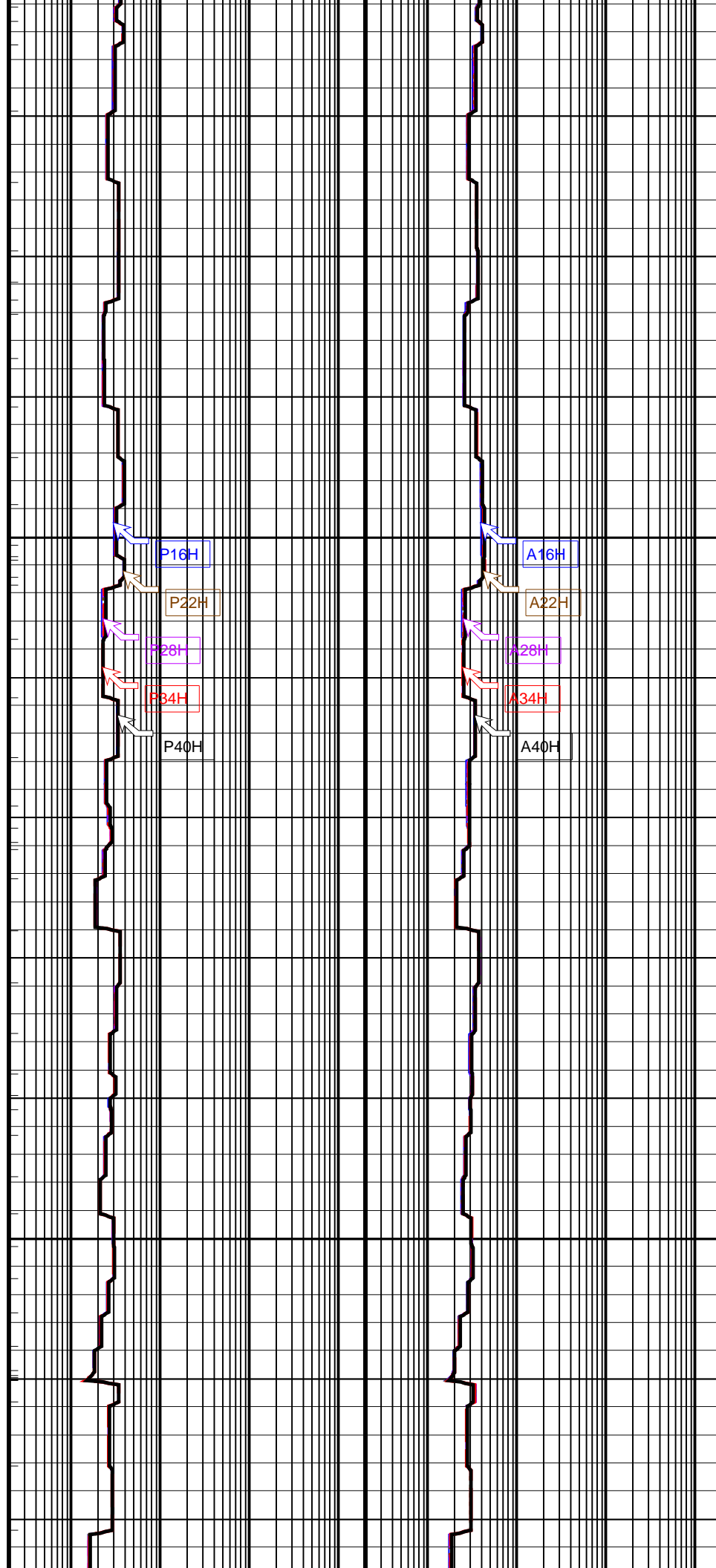
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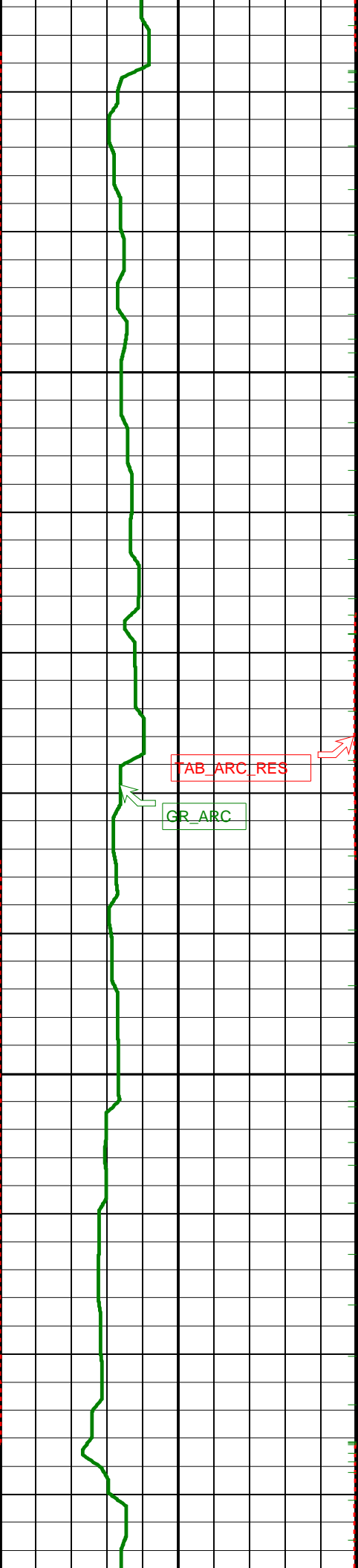


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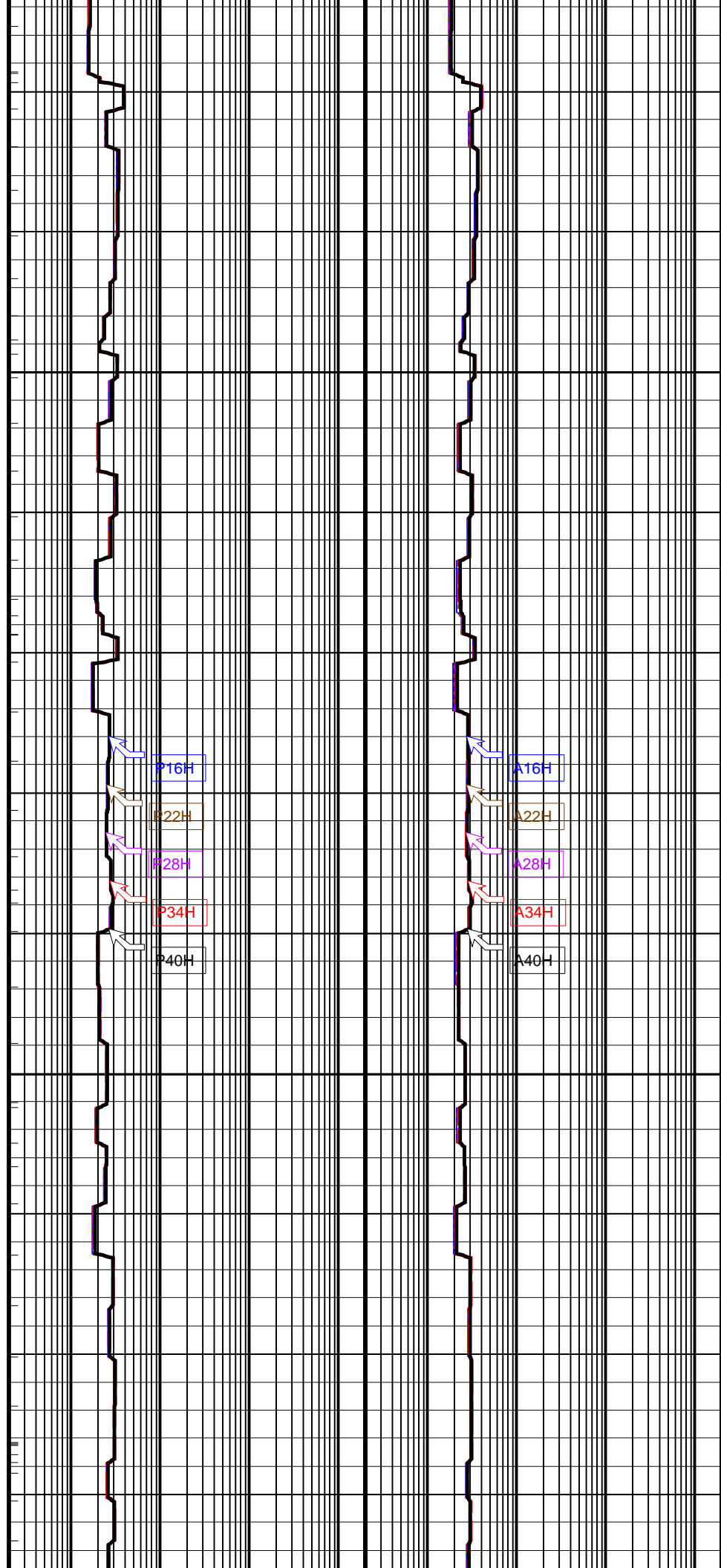


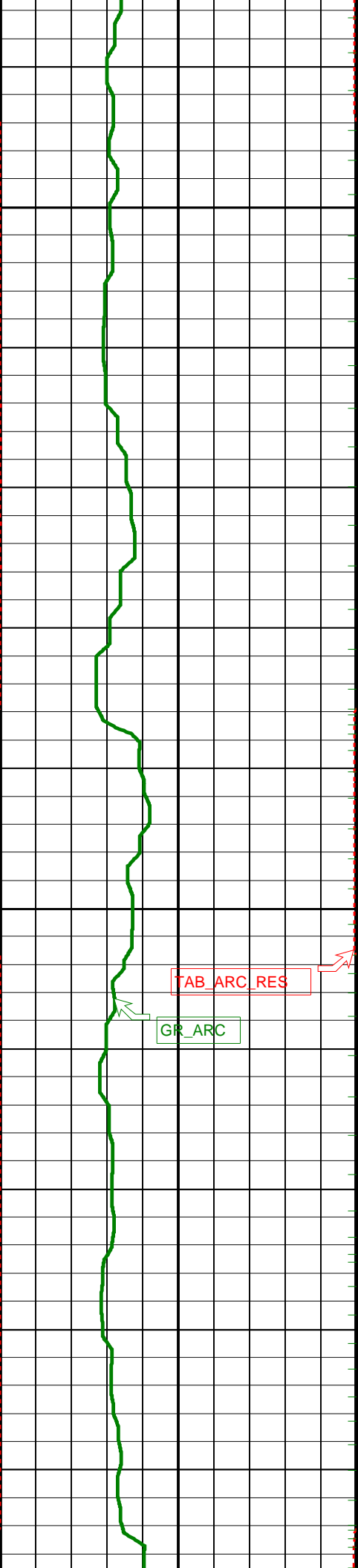




1650

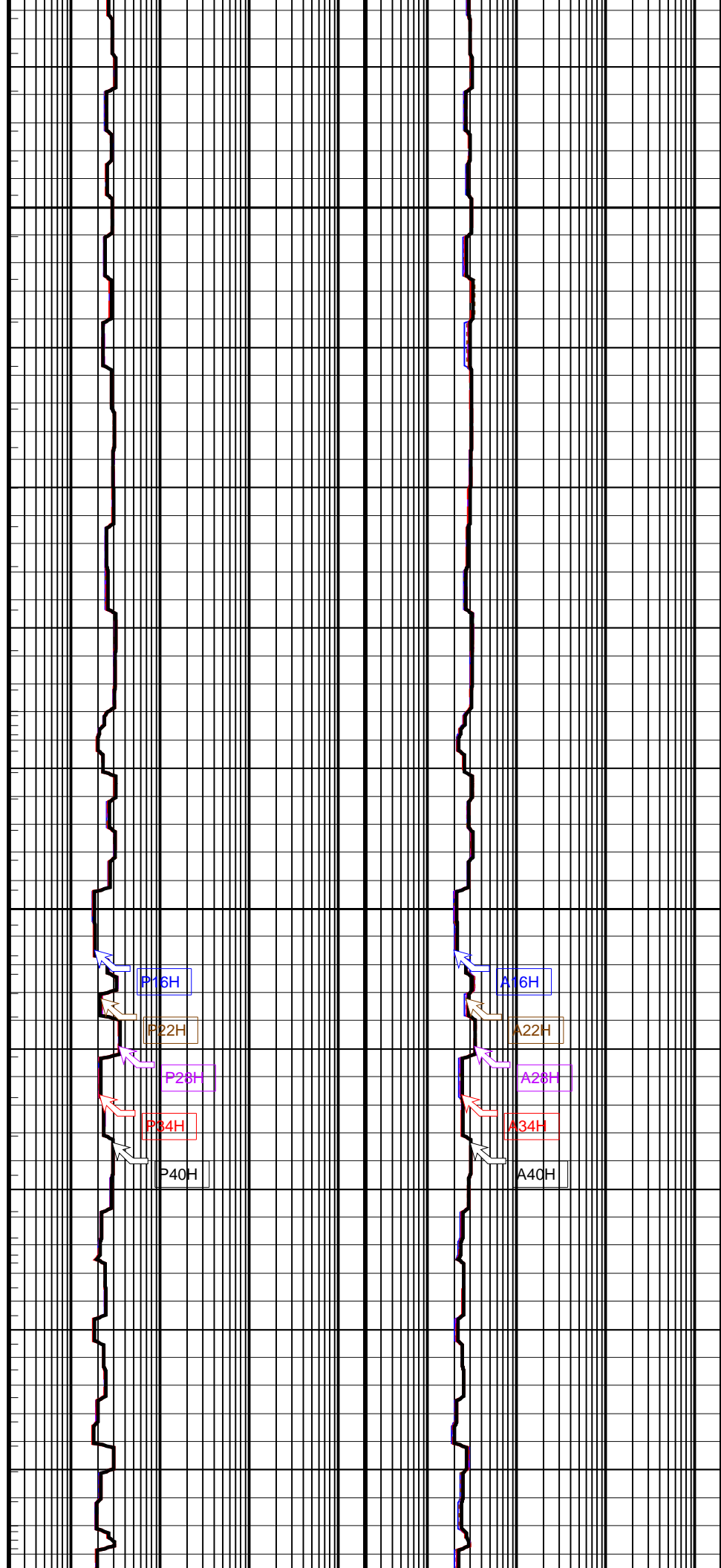
1675

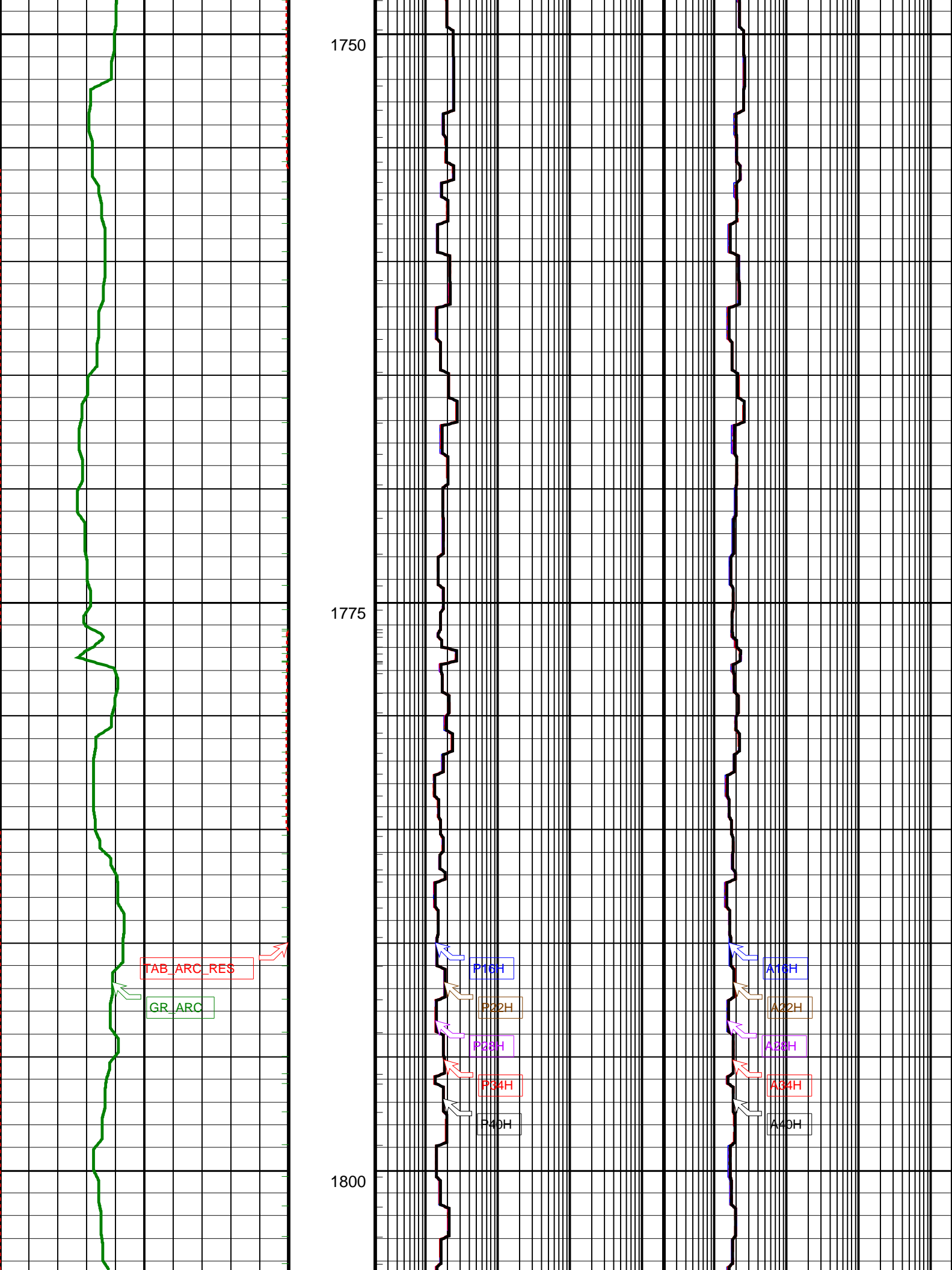


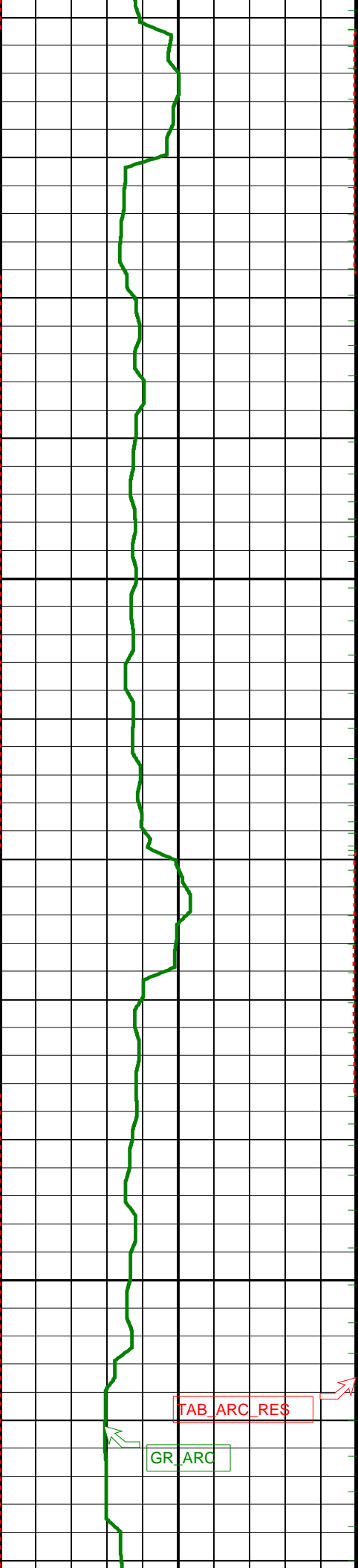


1700

1725

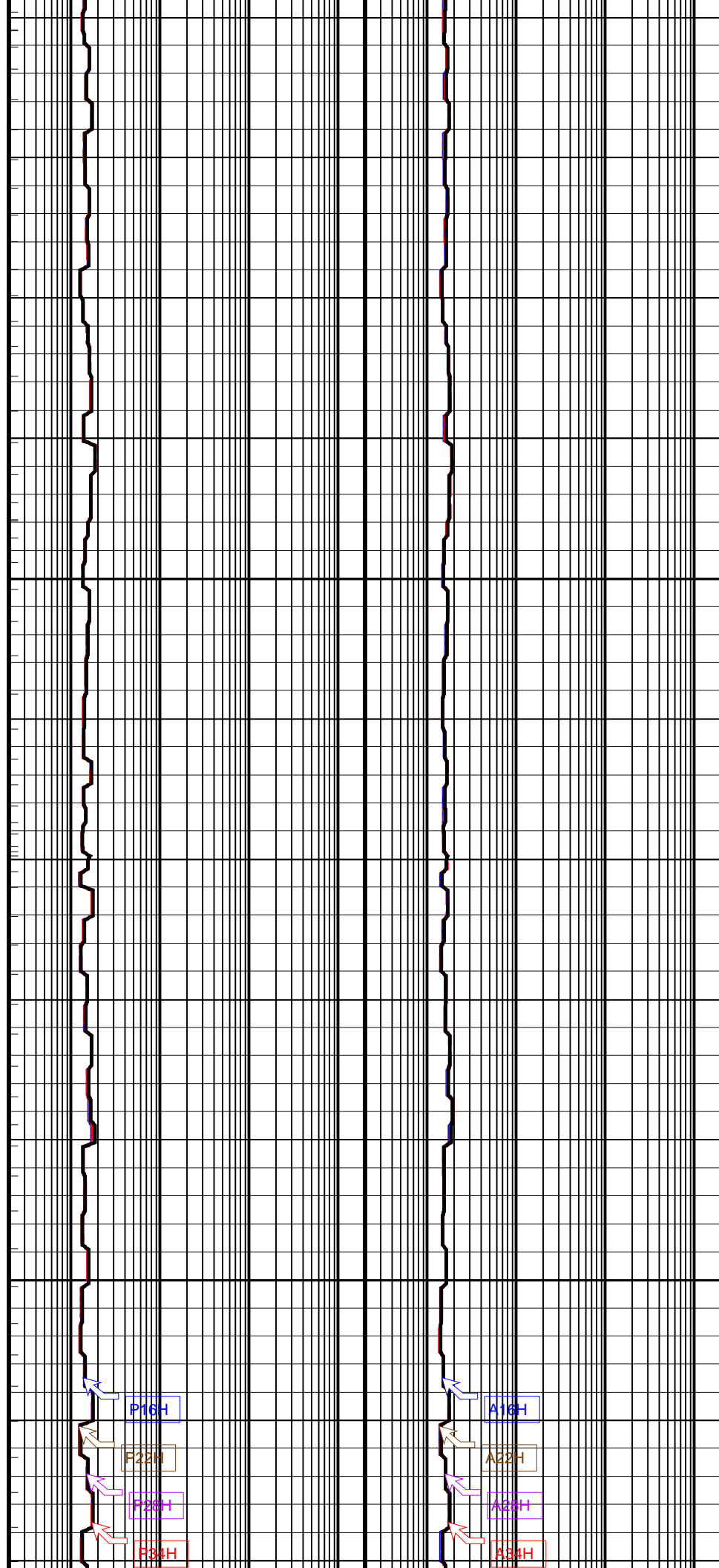


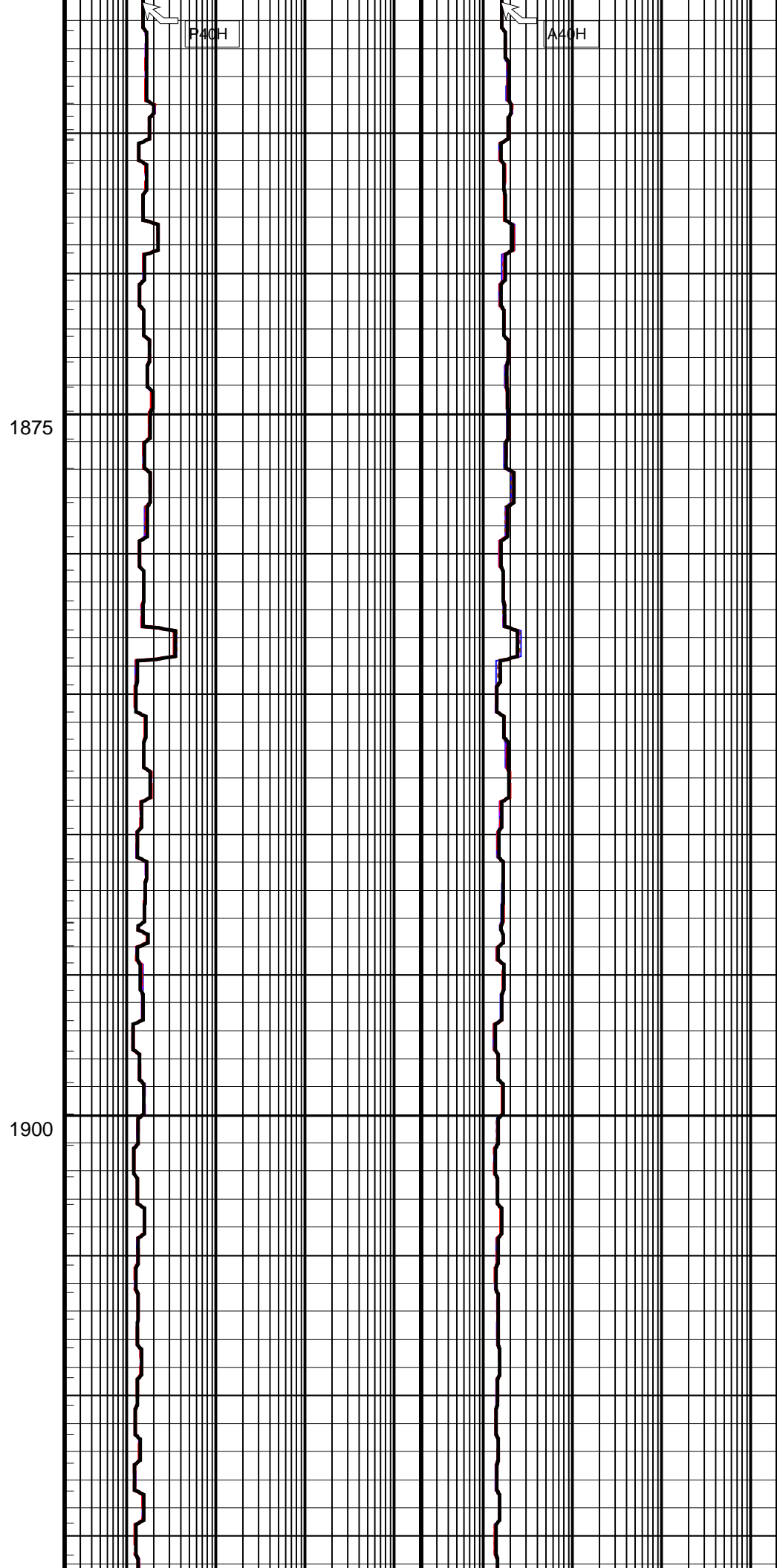
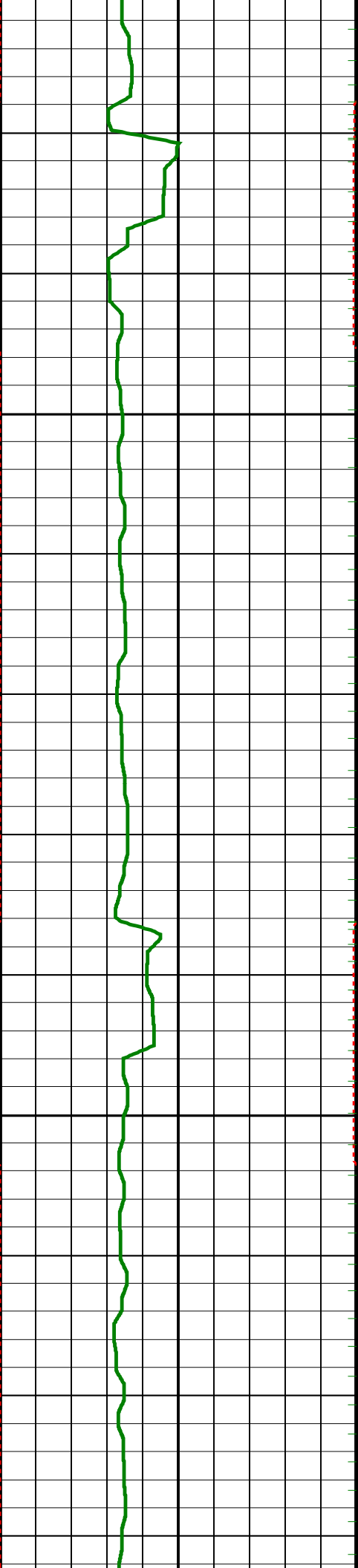


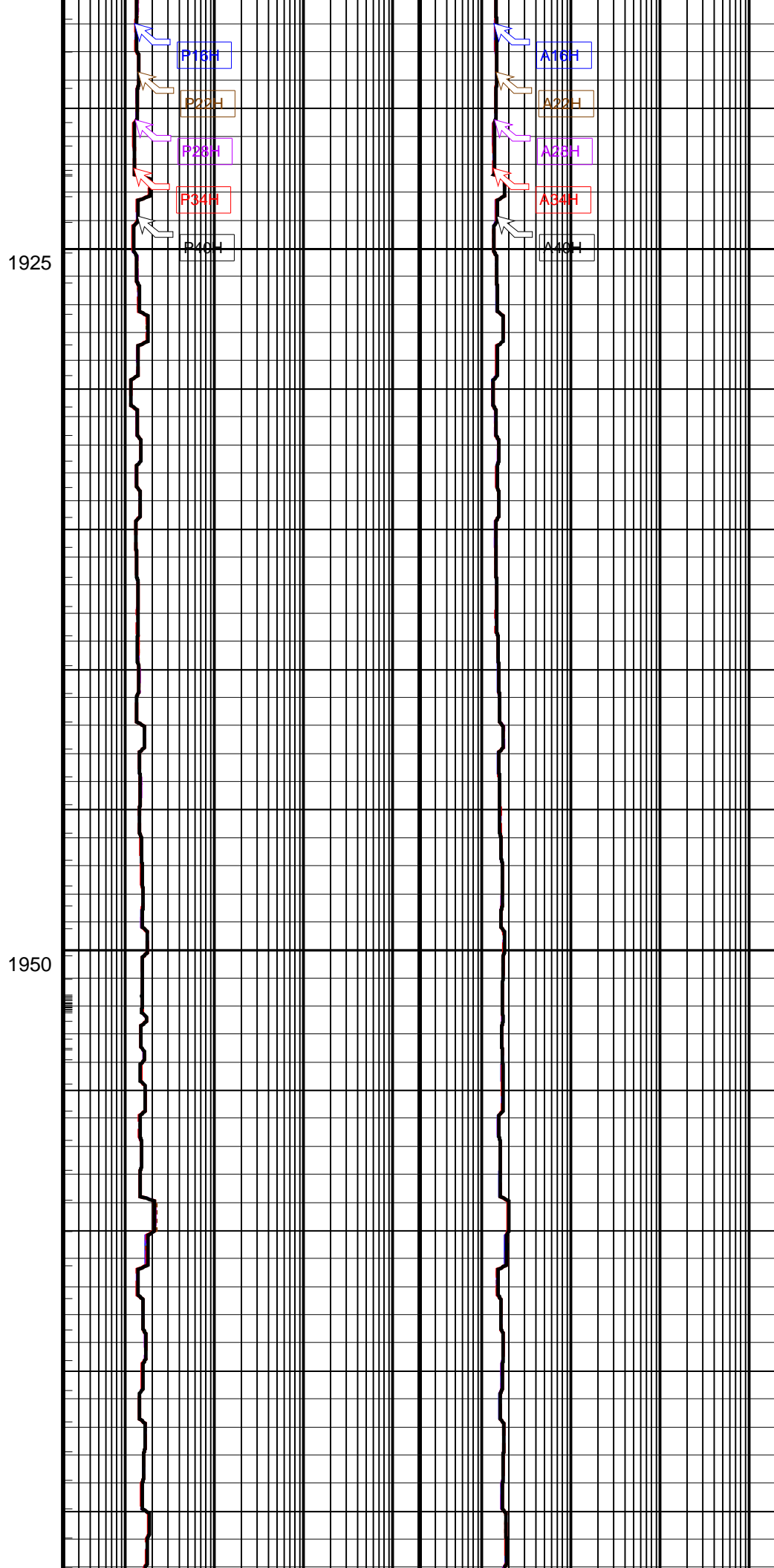
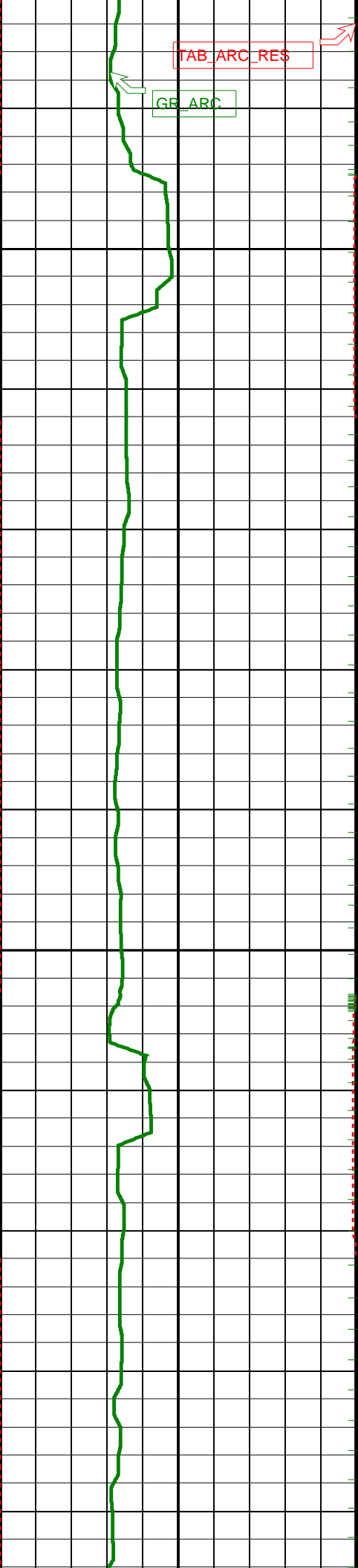


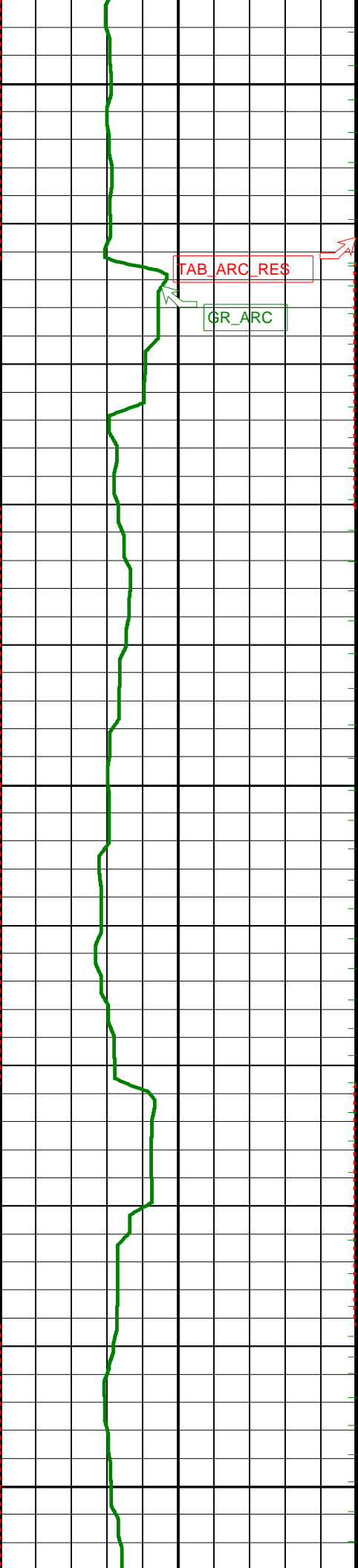
1825

1850





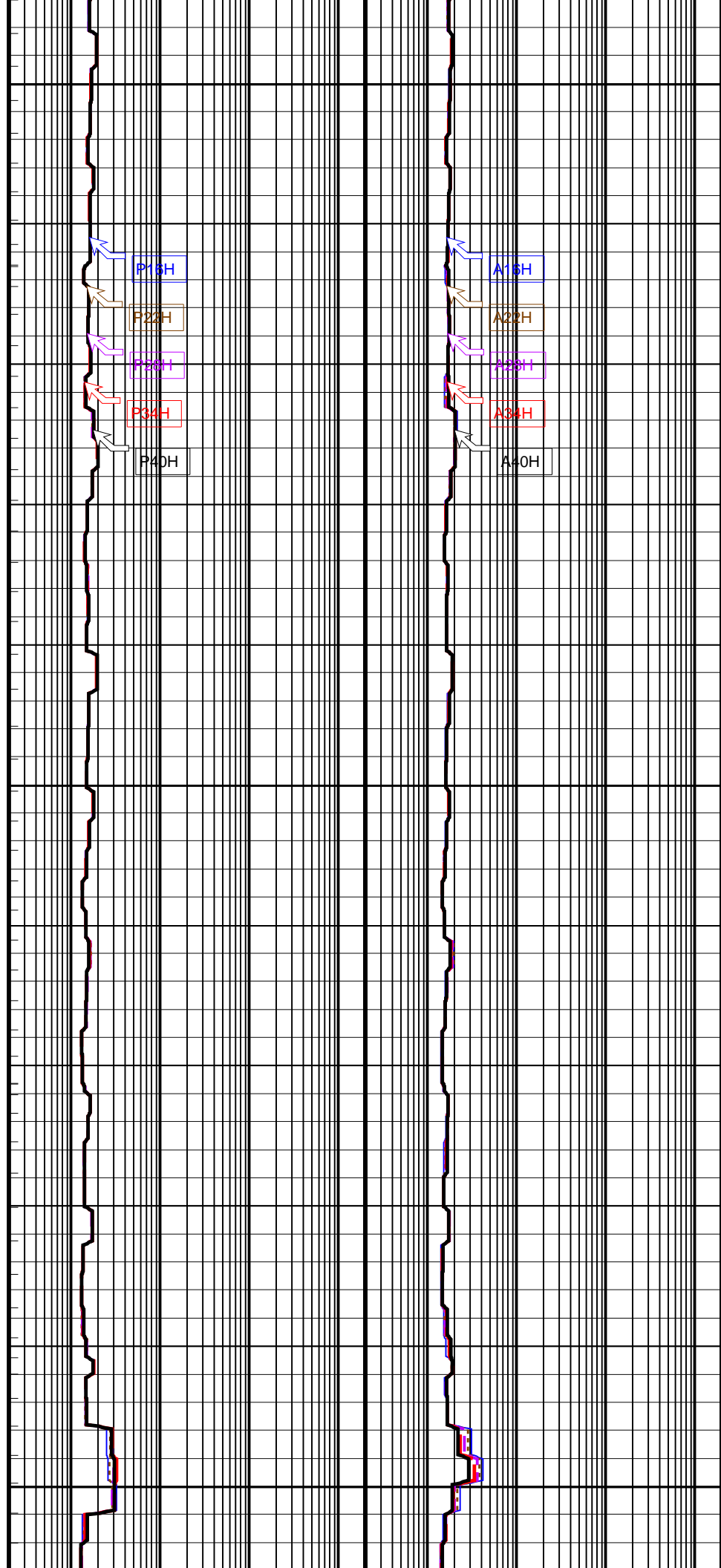


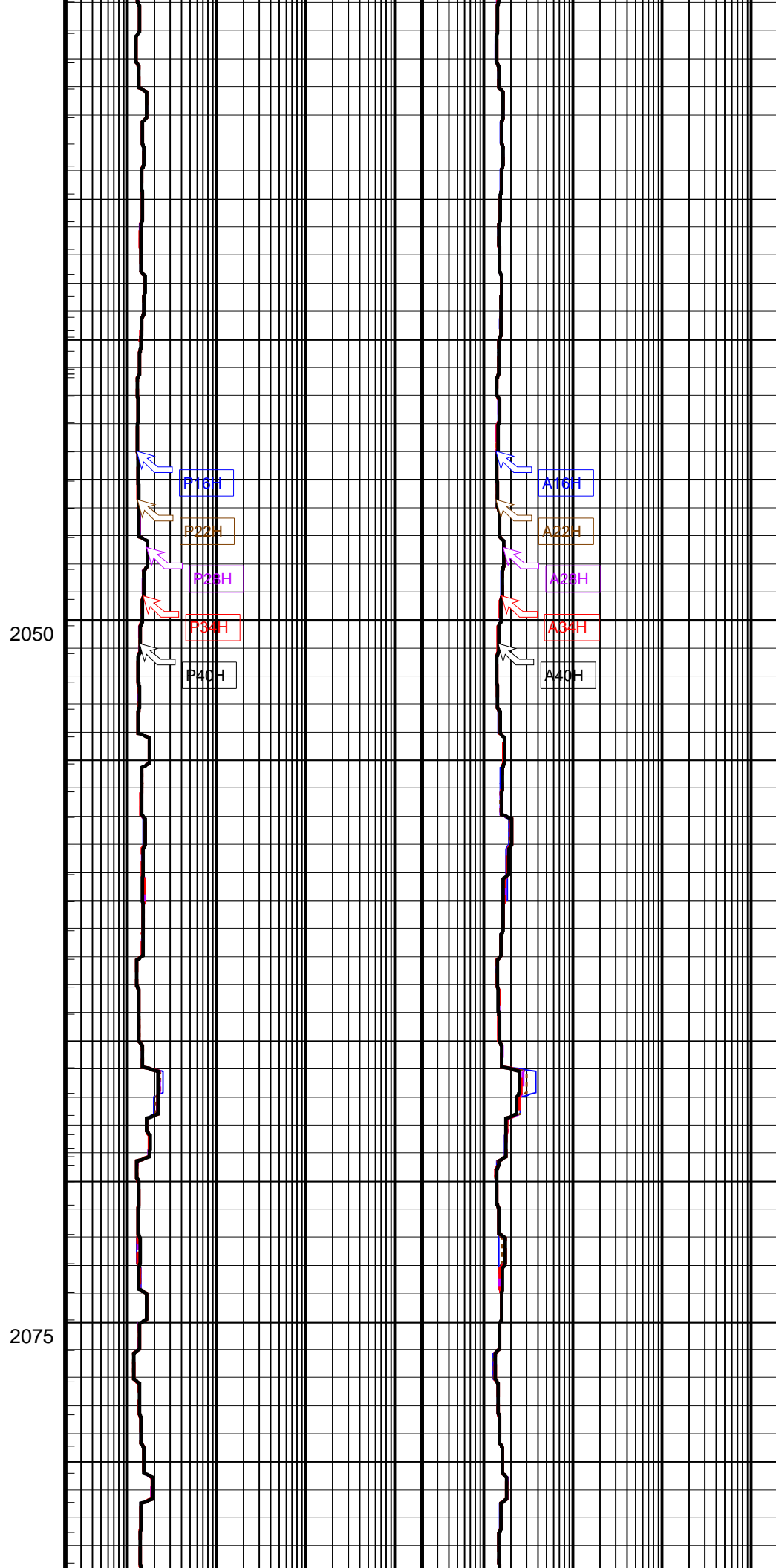
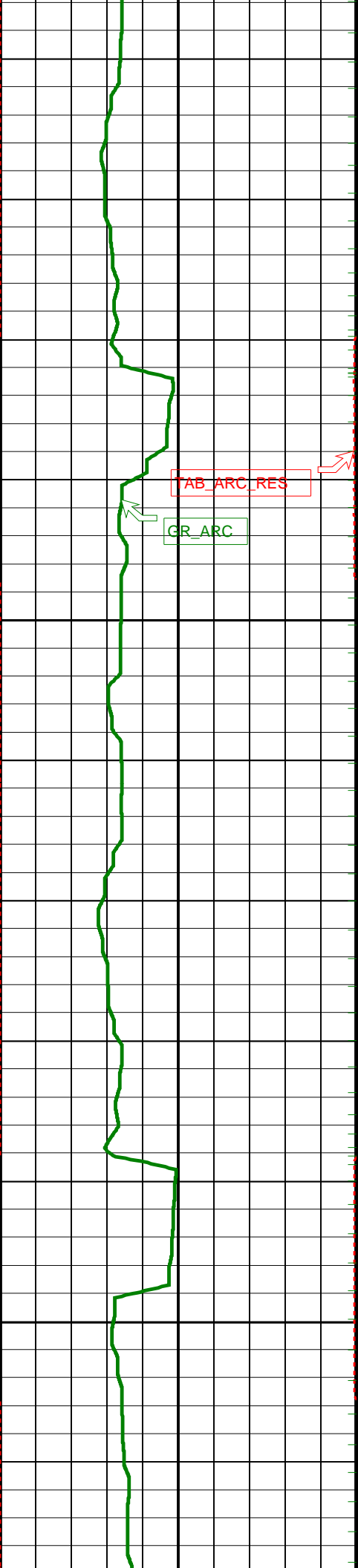


1975

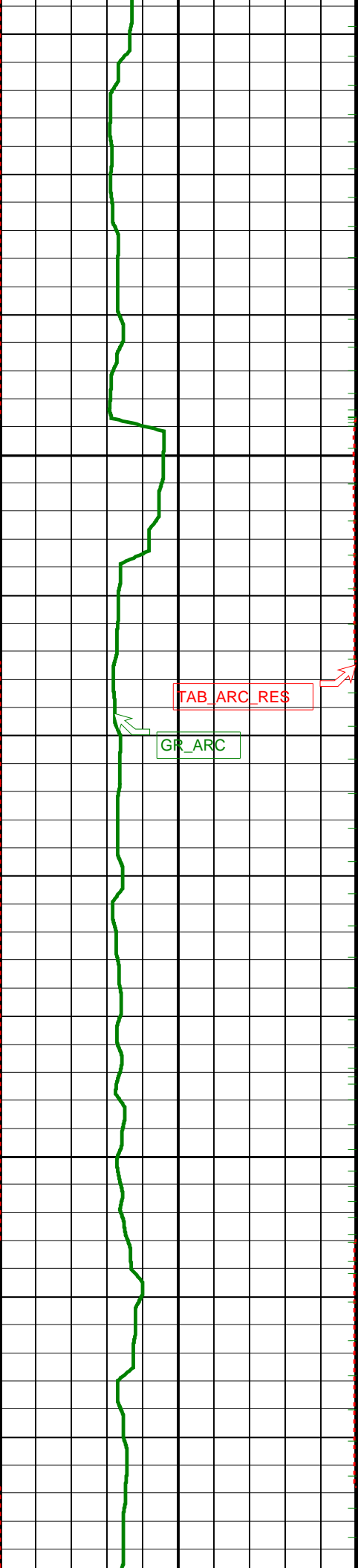
2000

2025



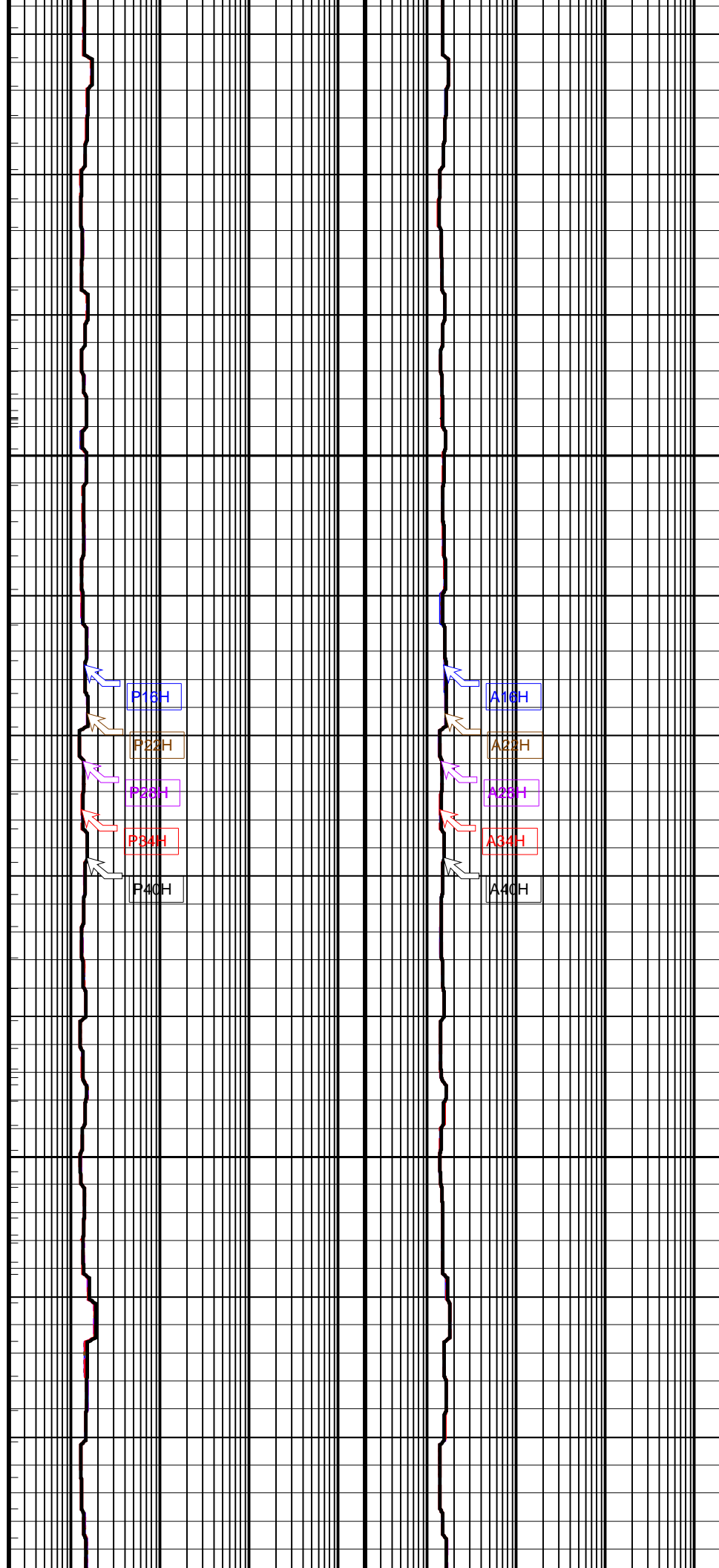


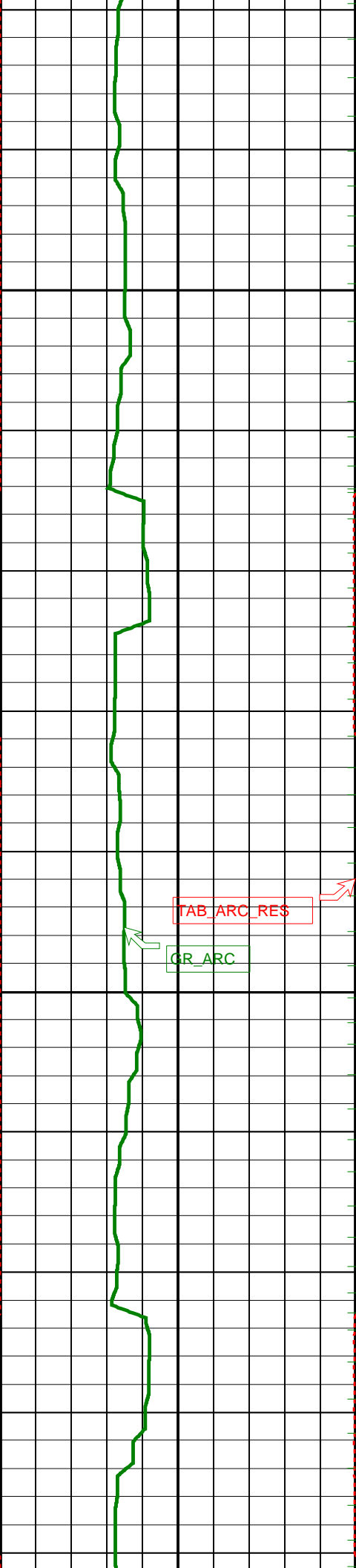




2100

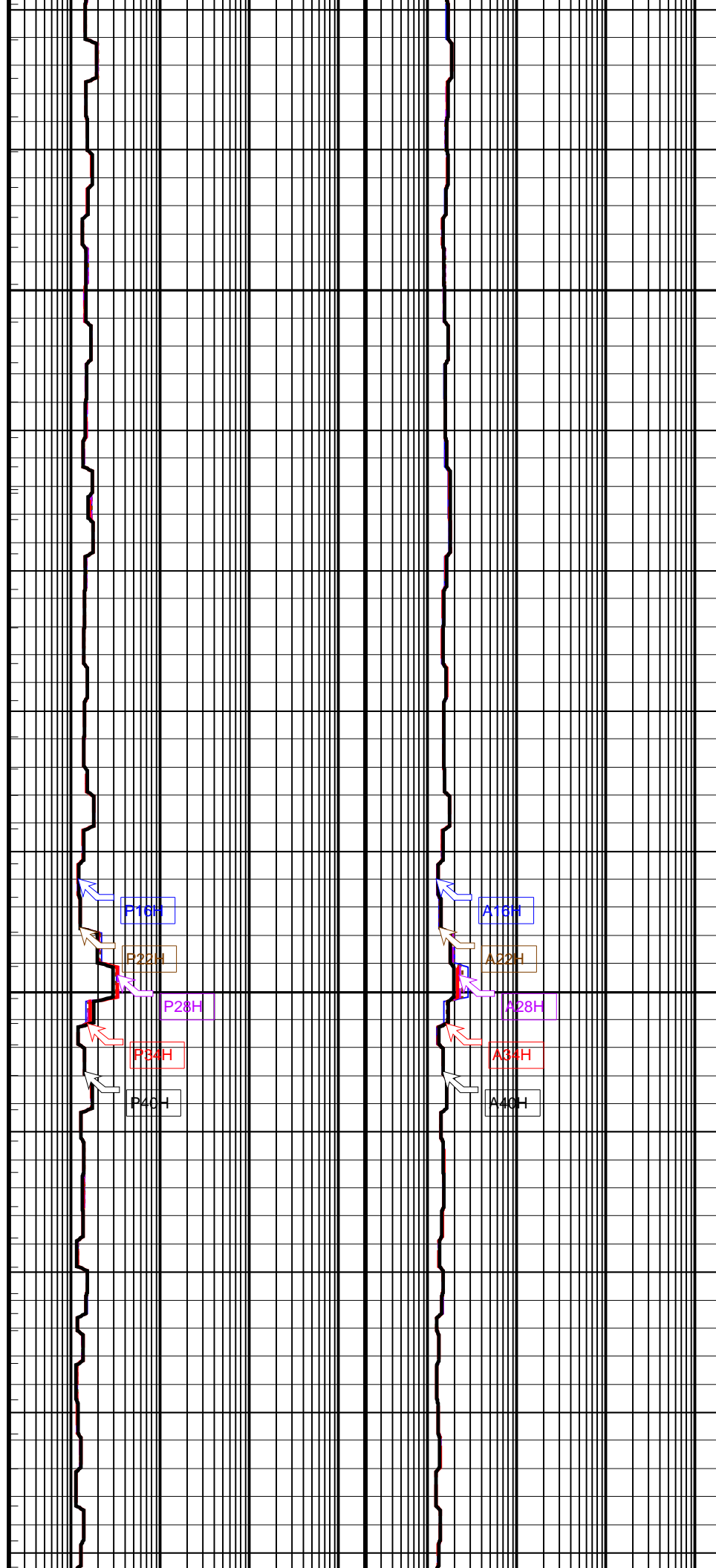
2125

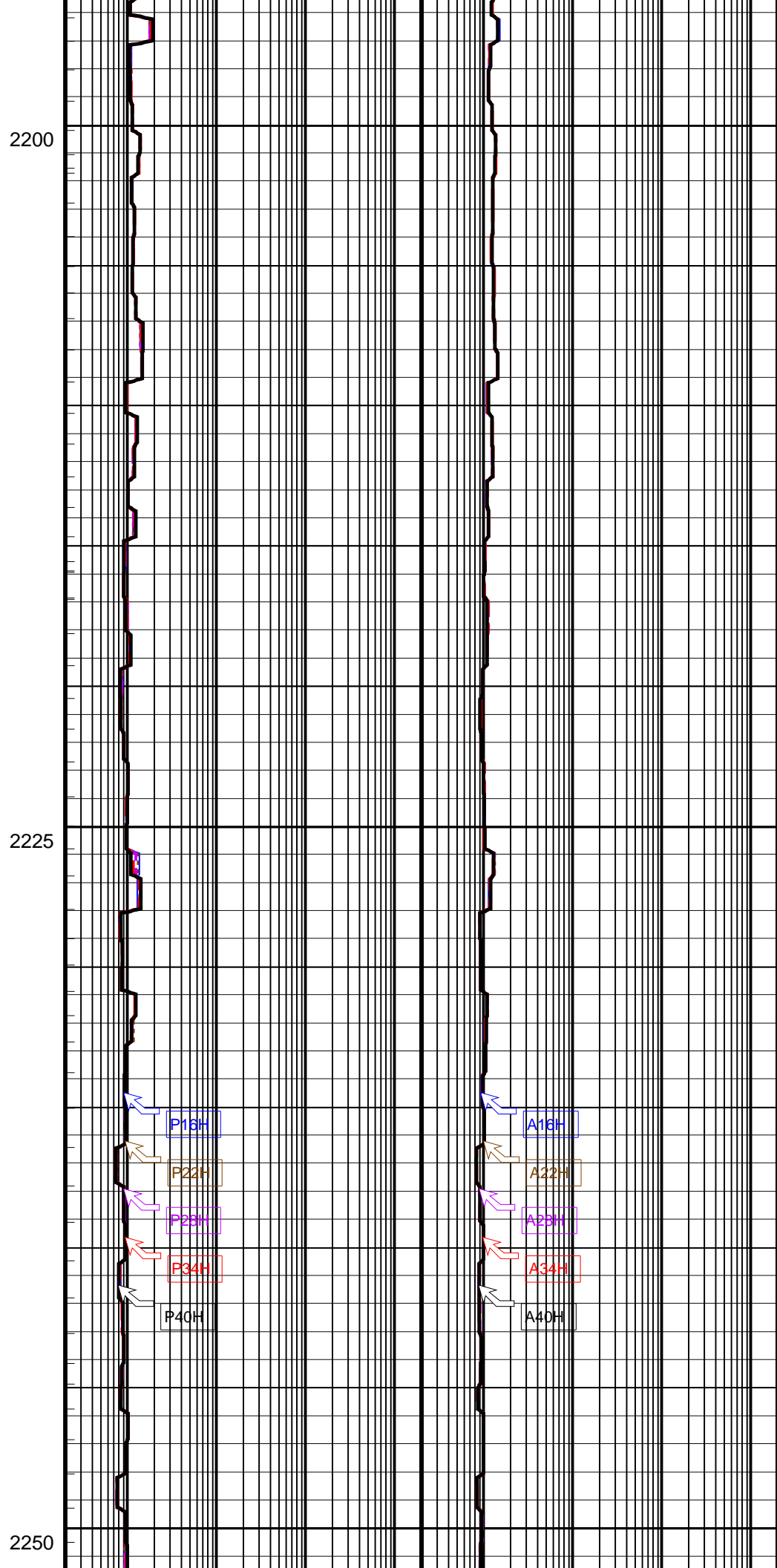
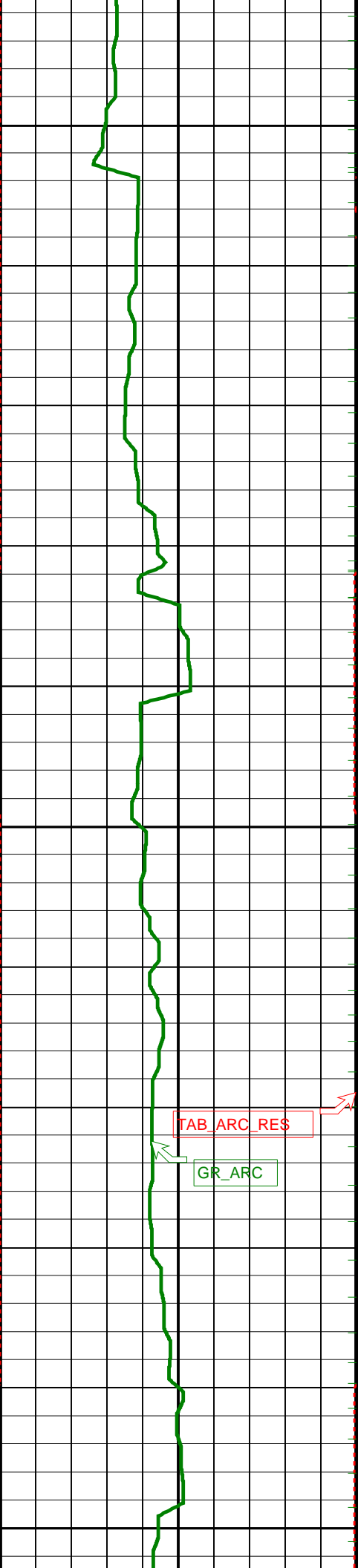


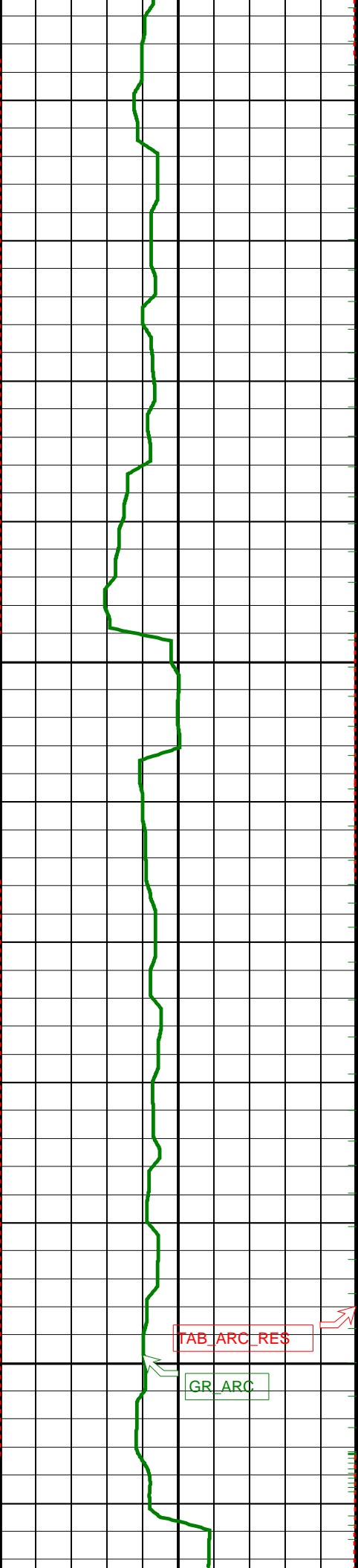


2150

2175

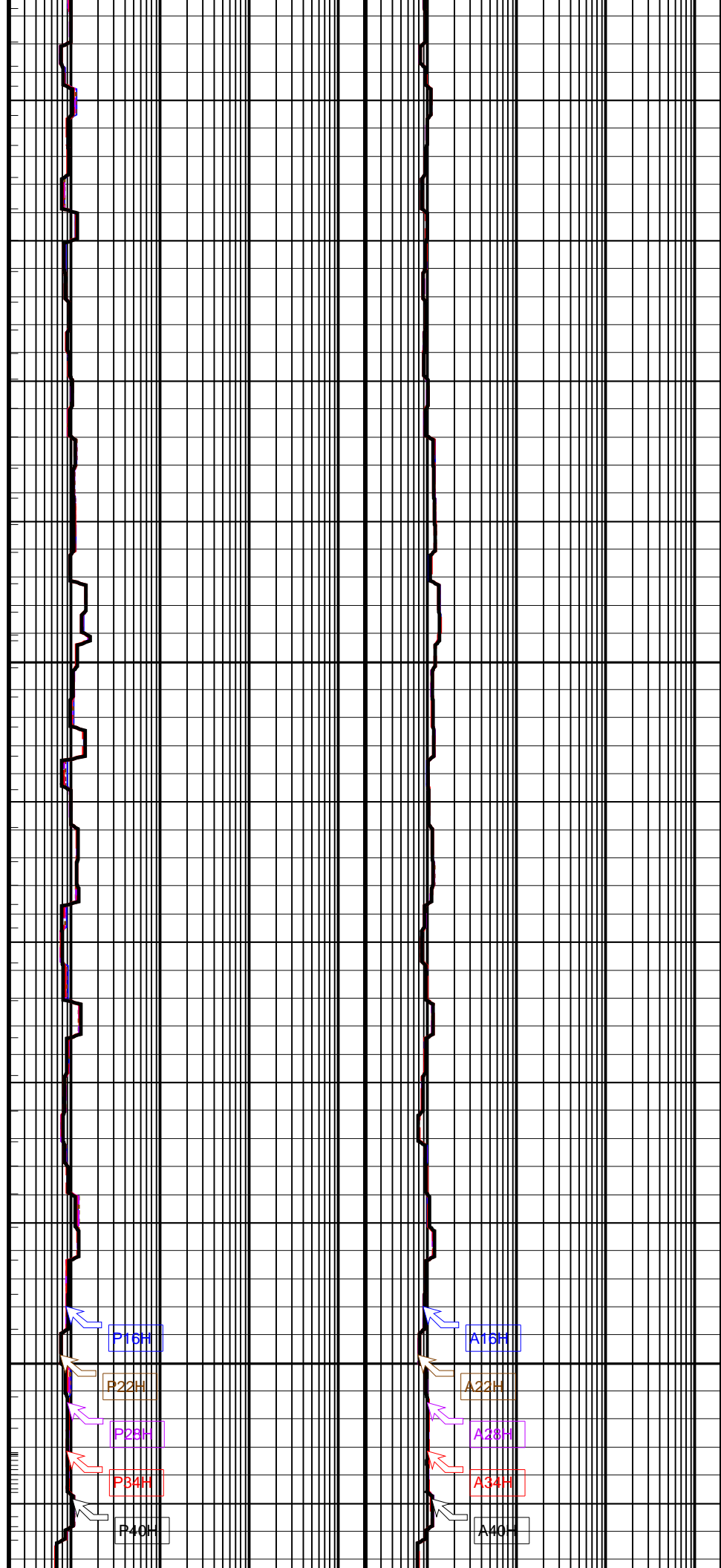


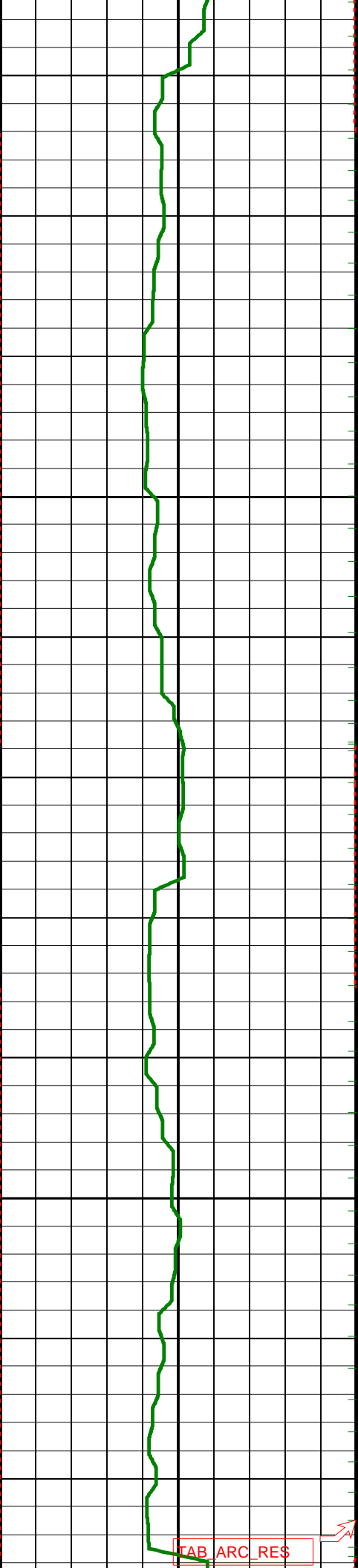




2275

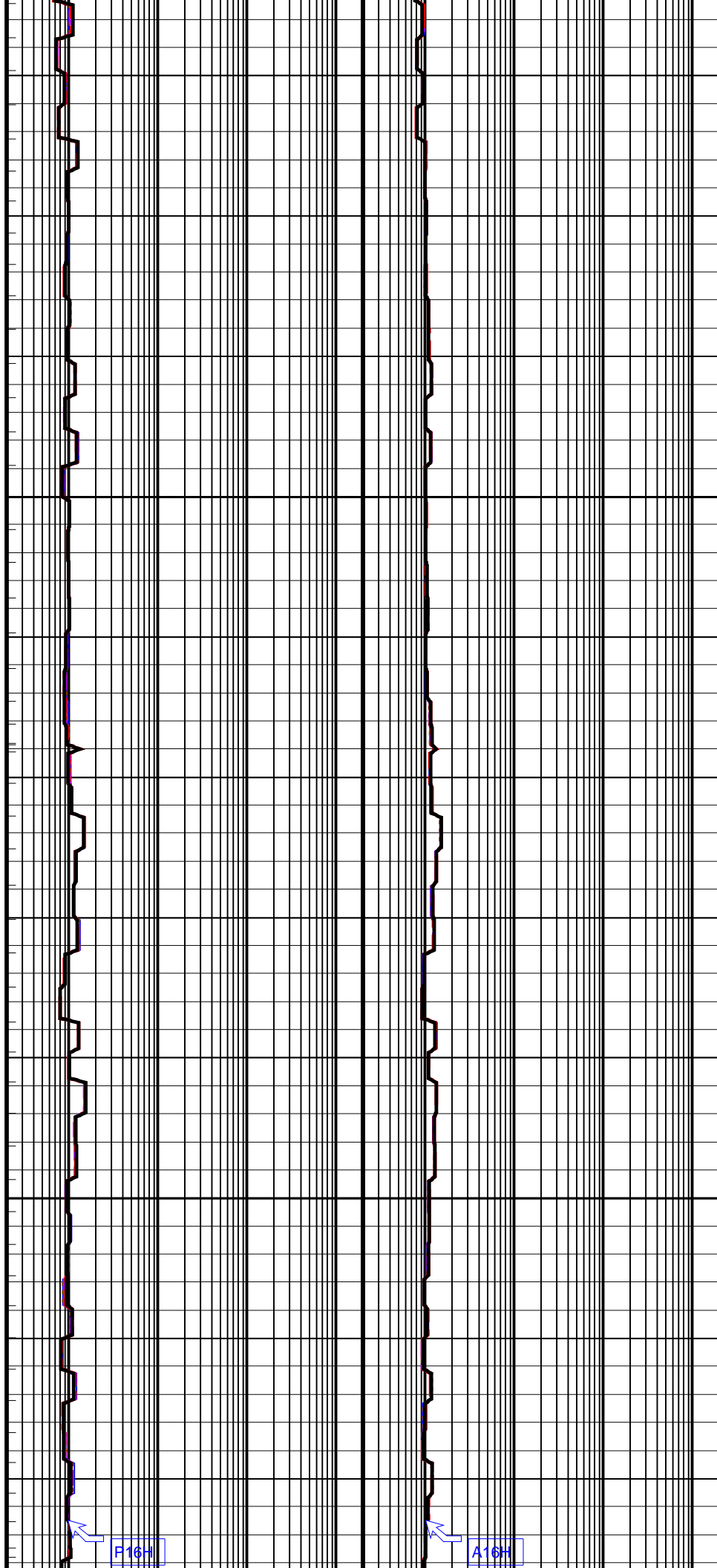
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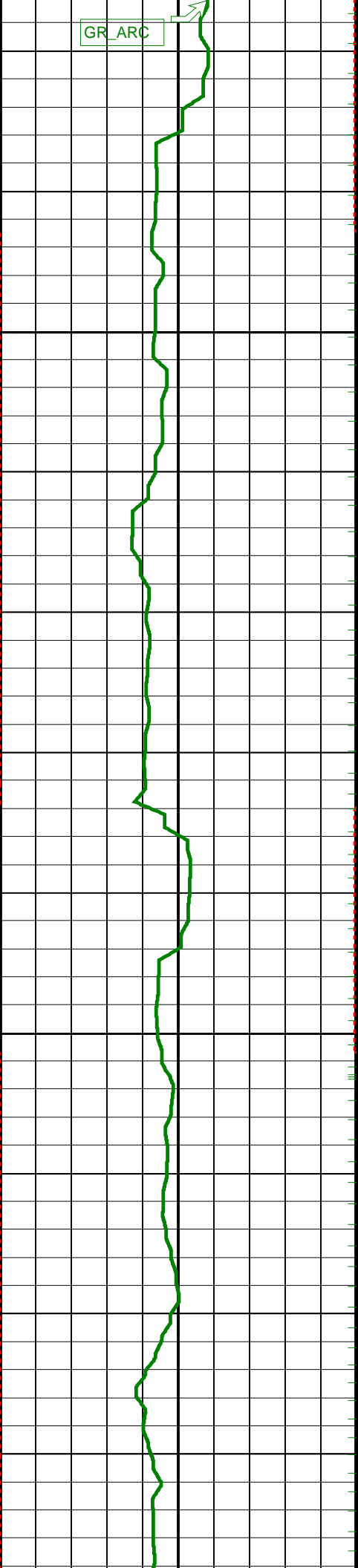




2325

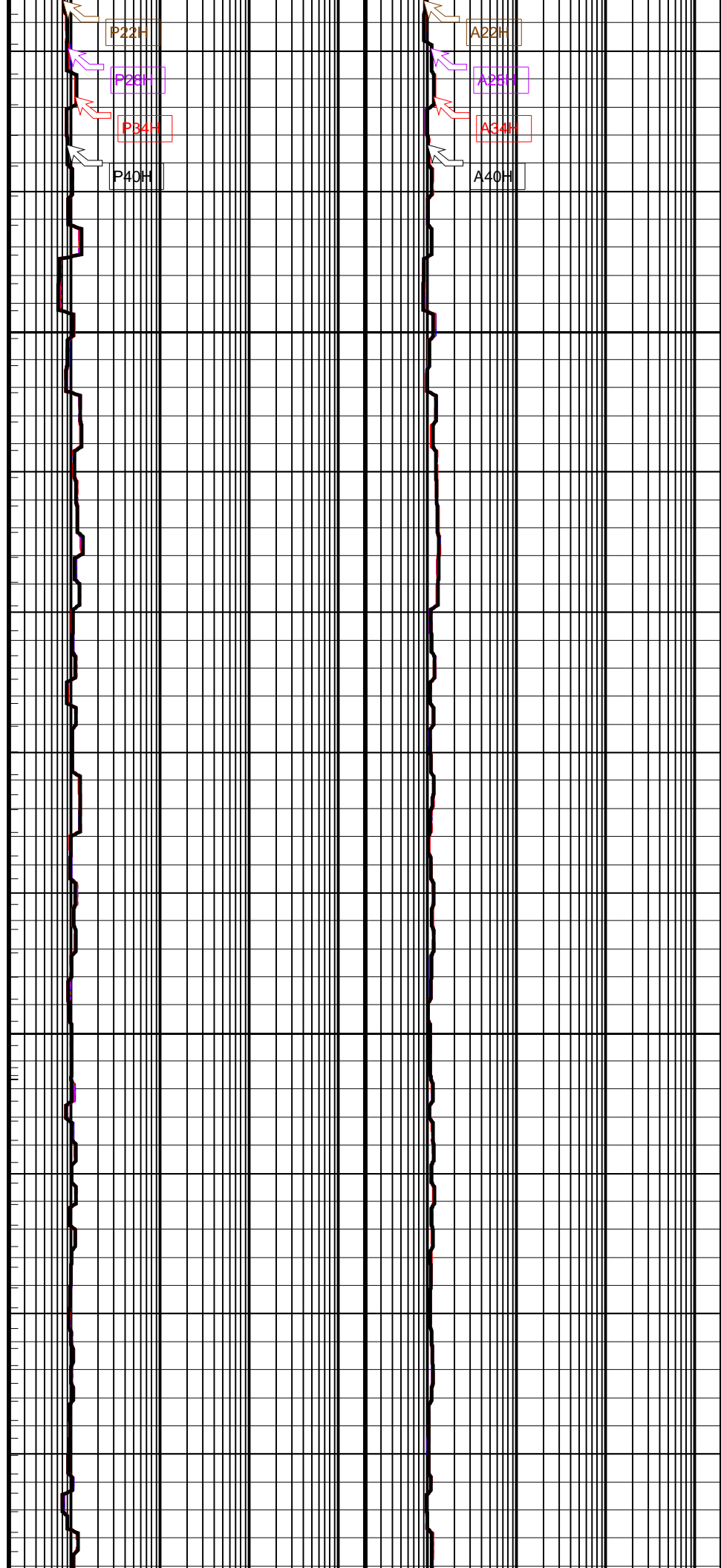
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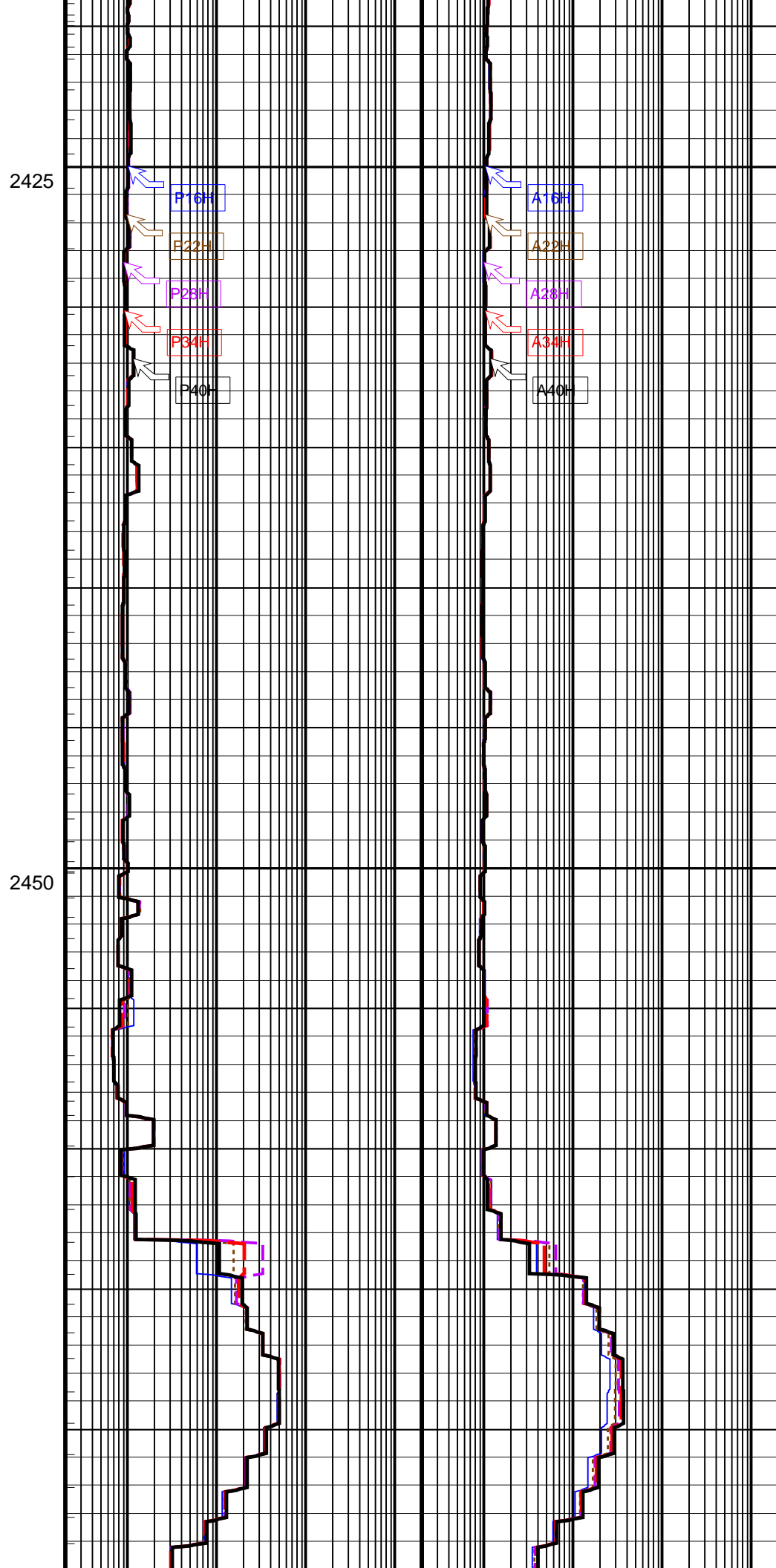
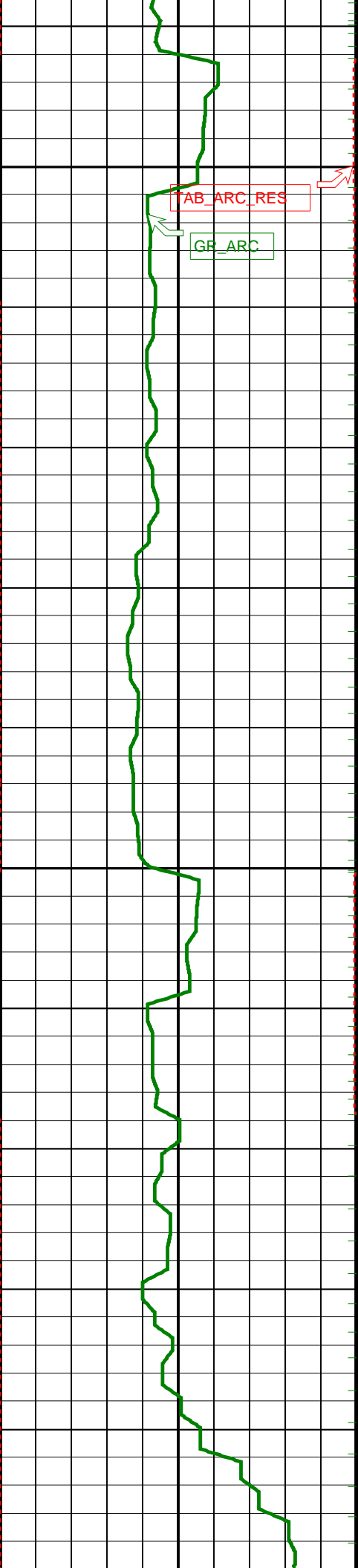


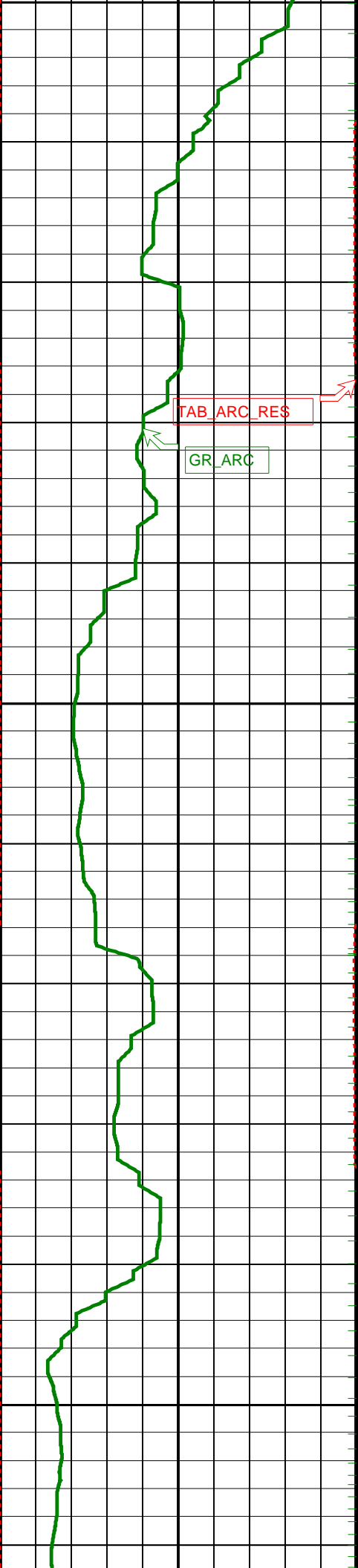


2375

2400



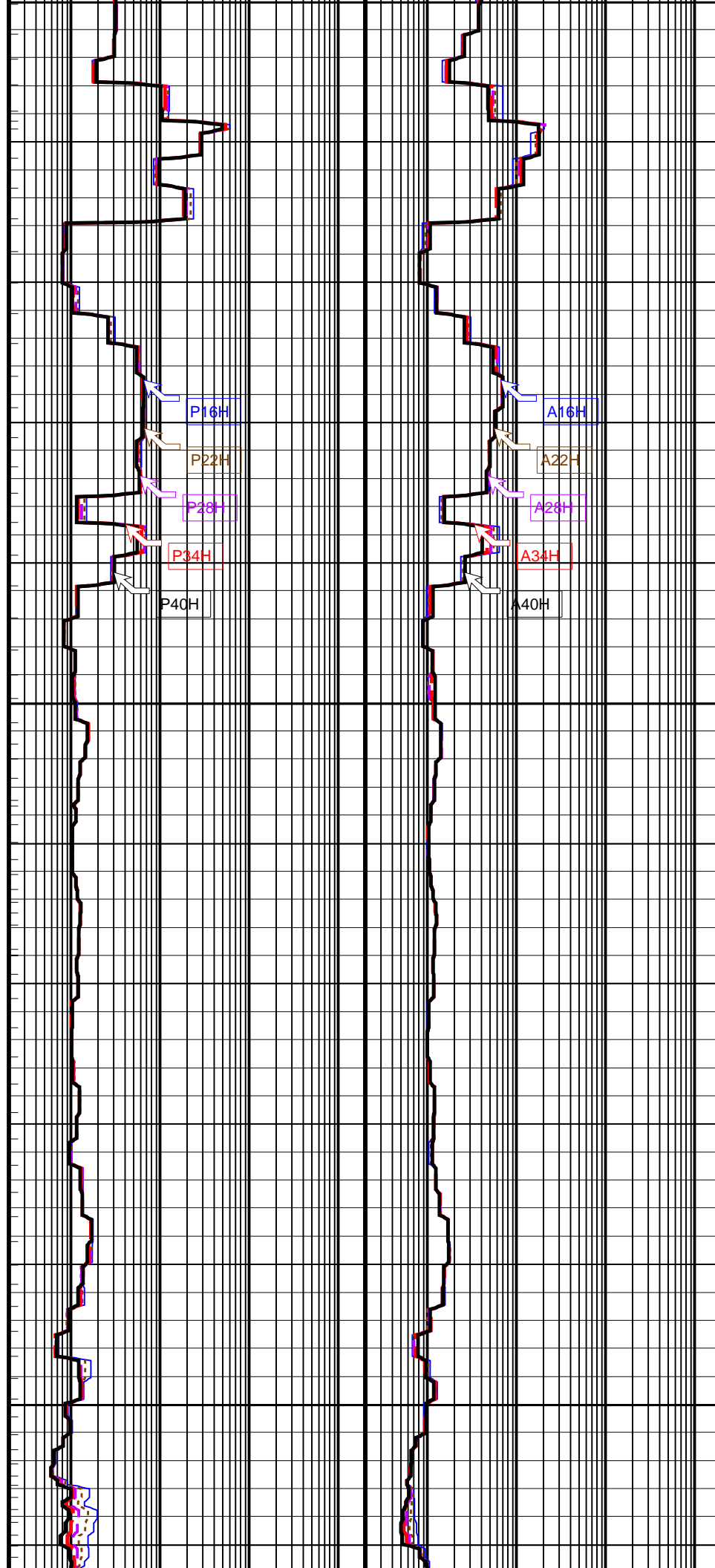




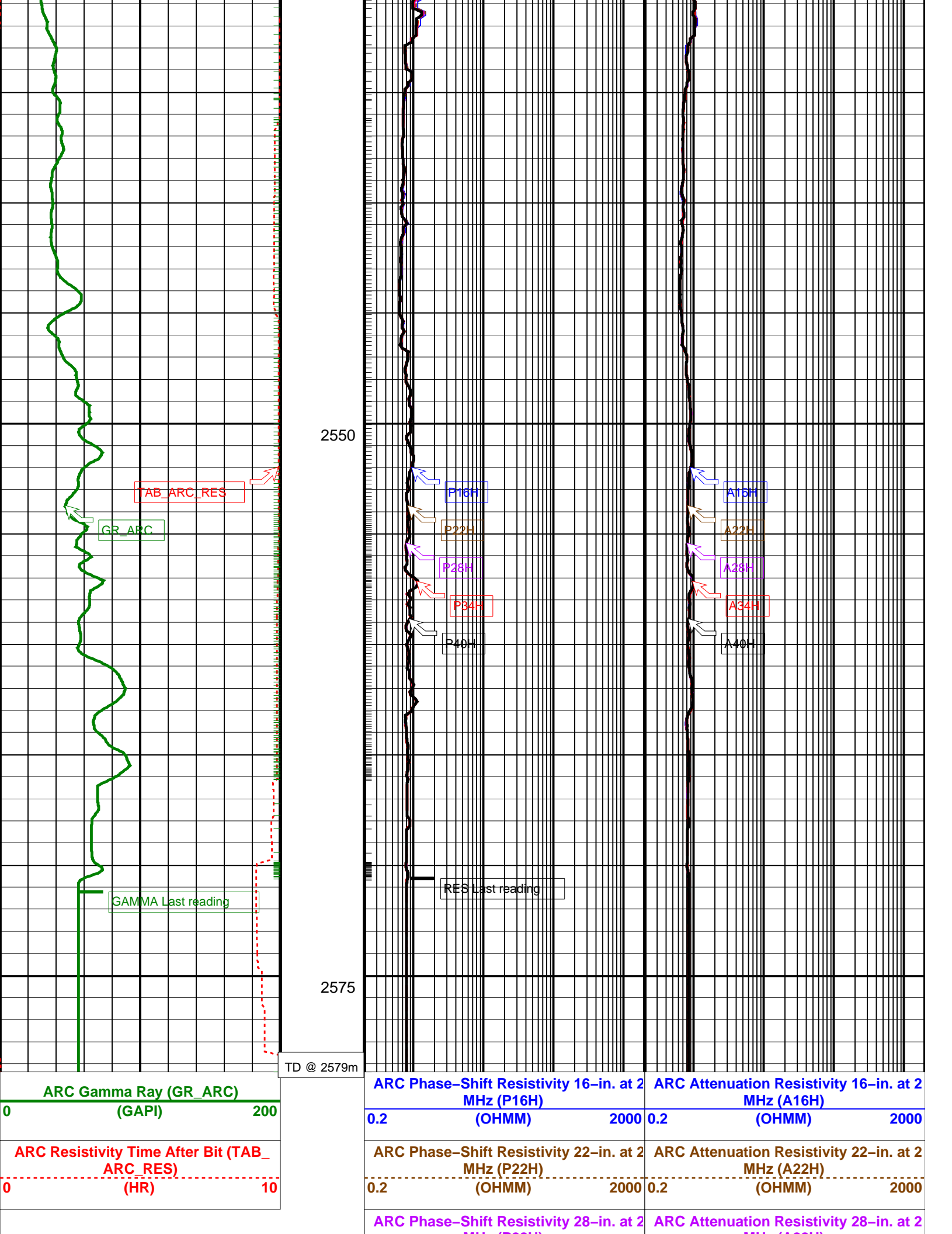
2475

2500




2525




























<div style="text-align: center;"> <b>PIP SUMMARY</b>  <span style="margin-right: 80px;"> ARC Gamma Ray Samples</span>  <span> ARC Resistivity Samples</span> </div>					
<b>IDEAL Version: ID14_0C_14</b> IDF					


Master: 13-Jun-2009 20:01														
6.75-in. Azimuthal Density Neutron Calibration														
Neutron: 3-Point Calibration														
Phase	Far 1 tube	1 Air Point Measure	CPS	Value	Phase	Far 1 tube	1 Rod Point Measure	CPS	Value	Phase	Far 1 tube	1 H2O Point Measure	CPS	Value
Master				17.93	Master				4.529	Master				2.114
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)			3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)			1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)	

Master: 13-Jun-2009 20:01			
6.75-in. Azimuthal Density Neutron Calibration			
Neutron: Water Block Check			
Phase	Far Neutron water porosity PU		Value
Master			106.2
	90.00 (Minimum)	100.0 (Nominal)	125.0 (Maximum)

Master: 17-Apr-2009 14:12											
6.75-in. Array Resistivity Compensated Calibration											
Resistivity: Air											
Phase	Phase-Shift T1		Value	Phase	Phase-Shift T2		Value	Phase	Phase-Shift T3		Value
Master			0.09000	Master			-0.05300	Master			-0.001000
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)
Phase	Phase-Shift T4		Value	Phase	Phase-Shift T5		Value	Phase	Phase-Shift T1 at 400KHz		Value
Master			-0.1050	Master			0.002000	Master			1.267
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)
Phase	Phase-Shift T2 at 400KHz		Value	Phase	Phase-Shift T3 at 400KHz		Value	Phase	Phase-Shift T4 at 400KHz		Value
Master			-1.300	Master			1.279	Master			-1.349
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)
Phase	Phase-Shift T5 at 400KHz		Value								
Master			1.278								

-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	
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Master: 17-Apr-2009 14:12											
6.75-in. Array Resistivity Compensated Calibration											
Resistivity: Air											
Phase	Attenuation T1		Value	Phase	Attenuation T2		Value	Phase	Attenuation T3		Value
Master			8.950	Master			6.014	Master			5.566
	6.500 (Minimum)	8.500 (Nominal)	10.50 (Maximum)		4.500 (Minimum)	6.500 (Nominal)	8.500 (Maximum)		2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)
Phase	Attenuation T4		Value	Phase	Attenuation T5		Value	Phase	Attenuation T1 at 400KHz		Value
Master			3.912	Master			4.116	Master			8.936
	2.600 (Minimum)	4.600 (Nominal)	6.600 (Maximum)		1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)		6.500 (Minimum)	8.500 (Nominal)	10.50 (Maximum)
Phase	Attenuation T2 at 400KHz		Value	Phase	Attenuation T3 at 400KHz		Value	Phase	Attenuation T4 at 400KHz		Value
Master			6.040	Master			5.543	Master			3.936
	4.500 (Minimum)	6.500 (Nominal)	8.500 (Maximum)		2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)		2.600 (Minimum)	4.600 (Nominal)	6.600 (Maximum)
Phase	Attenuation T5 at 400KHz		Value								
Master			4.099								
	1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)								

Master: 17-Apr-2009 13:43			
6.75-in. Array Resistivity Compensated Calibration			
Gamma Ray: Blanket			
Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS		Value
Master			5.022
	2.780 (Minimum)	4.800 (Nominal)	6.000 (Maximum)

Well.....	CBA A-33	Spud date.....	15-Jun-09
API number.....	n/a	Last survey date.....	24-Jun-09
Engineer.....	M. Amarasena, B. Low	Total accepted surveys....	164
	MD of first survey.....		0.00 m
Rig Label.....	ISDL 175	MD of last survey.....	2579.00 m
STATE.....	Victoria		

[(c)2009 IDEAL ID14\_0C\_14]  
SCHLUMBERGER Survey Report

28-Jun-2009 10:51:46

Seq	Measured depth	Incl angle	Azimuth	Course length	TVD depth	Vertical section	Displ +N/S-	Displ +E/W-	Displ Total	At Azim	DLS	Srvy Tool
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(deg)	100f	type	tool Corr
1	0.00	0.00	0.00	0.00	0.00	0.00	-2.70	8.71	9.12	107.22	0.00	TIP None
2	16.66	0.00	0.00	16.66	16.66	0.00	-2.70	8.71	9.12	107.22	0.00	MWD_M None
3	36.66	0.24	294.89	20.00	36.66	0.00	-2.68	8.67	9.08	107.19	0.37	MWD_M None
4	38.66	0.25	303.61	2.00	38.66	0.00	-2.68	8.66	9.07	107.18	0.59	MWD_M None
5	40.66	0.23	259.46	2.00	40.66	0.00	-2.68	8.66	9.06	107.18	2.76	MWD_M None
6	42.66	0.18	292.07	2.00	42.66	0.01	-2.68	8.65	9.05	107.19	1.90	MWD_M None
7	44.66	0.25	248.27	2.00	44.66	0.01	-2.68	8.64	9.05	107.21	2.64	MWD_M None
8	46.66	0.17	292.97	2.00	46.66	0.01	-2.68	8.64	9.04	107.22	2.68	MWD_M None
9	48.66	0.19	310.99	2.00	48.66	0.01	-2.67	8.63	9.04	107.21	0.91	MWD_M None
10	50.66	0.17	259.27	2.00	50.66	0.01	-2.67	8.63	9.03	107.21	2.41	MWD_M None
11	52.66	0.15	297.42	2.00	52.66	0.02	-2.67	8.62	9.02	107.22	1.62	MWD_M None
12	54.66	0.26	223.06	2.00	54.66	0.02	-2.67	8.62	9.02	107.24	4.01	MWD_M None
13	56.66	0.19	237.40	2.00	56.66	0.03	-2.68	8.61	9.02	107.28	1.36	MWD_M None
14	58.66	0.18	256.40	2.00	58.66	0.03	-2.68	8.60	9.01	107.31	0.94	MWD_M None
15	60.66	0.20	297.74	2.00	60.66	0.03	-2.68	8.60	9.01	107.32	2.06	MWD_M None
16	62.66	0.24	276.40	2.00	62.66	0.04	-2.68	8.59	9.00	107.32	1.38	MWD_M None
17	64.66	0.22	273.19	2.00	64.66	0.04	-2.68	8.58	8.99	107.33	0.36	MWD_M None
18	66.66	0.29	249.88	2.00	66.66	0.04	-2.68	8.57	8.98	107.35	1.89	MWD_M None
19	68.66	0.29	256.71	2.00	68.66	0.05	-2.68	8.56	8.97	107.39	0.53	MWD_M None
20	70.66	0.27	270.40	2.00	70.66	0.06	-2.68	8.55	8.96	107.41	1.06	MWD_M None
21	72.66	0.32	265.13	2.00	72.66	0.06	-2.68	8.54	8.96	107.44	0.87	MWD_M None
22	74.66	0.30	298.10	2.00	74.66	0.06	-2.68	8.53	8.94	107.44	2.70	MWD_M None
23	76.66	0.33	257.14	2.00	76.66	0.07	-2.68	8.52	8.93	107.46	3.39	MWD_M None
24	78.66	0.29	290.54	2.00	78.66	0.07	-2.68	8.51	8.92	107.47	2.78	MWD_M None
25	80.66	0.29	286.15	2.00	80.66	0.07	-2.68	8.50	8.91	107.47	0.34	MWD_M None
26	82.66	0.33	279.92	2.00	82.66	0.08	-2.67	8.49	8.90	107.48	0.80	MWD_M None
27	84.66	0.34	290.80	2.00	84.66	0.08	-2.67	8.48	8.89	107.48	0.98	MWD_M None
28	86.66	0.34	294.63	2.00	86.66	0.08	-2.67	8.47	8.88	107.47	0.35	MWD_M None
29	88.66	0.29	307.58	2.00	88.66	0.08	-2.66	8.46	8.87	107.46	1.32	MWD_M None
30	90.66	0.26	281.54	2.00	90.66	0.08	-2.66	8.45	8.86	107.45	1.94	MWD_M None
31	92.66	0.25	293.72	2.00	92.66	0.08	-2.65	8.44	8.85	107.45	0.84	MWD_M None
32	94.66	0.25	302.92	2.00	94.66	0.08	-2.65					

41	112.66	0.25	293.12	2.00	112.66	0.09	-2.63	8.37	8.77	107.44	0.34	MWD_M	None
42	114.66	0.21	265.48	2.00	114.66	0.10	-2.63	8.36	8.76	107.45	1.78	MWD_M	None
43	116.66	0.19	242.45	2.00	116.66	0.10	-2.63	8.35	8.76	107.48	1.25	MWD_M	None
44	118.66	0.25	225.46	2.00	118.66	0.11	-2.63	8.35	8.75	107.52	1.34	MWD_M	None
45	120.76	0.29	213.32	2.10	120.76	0.12	-2.64	8.34	8.75	107.58	1.01	MWD_M	None
46	122.66	0.39	203.57	1.90	122.66	0.13	-2.65	8.34	8.75	107.65	1.85	MWD_M	None
47	124.66	0.51	197.13	2.00	124.66	0.14	-2.67	8.33	8.75	107.75	1.98	MWD_M	None
48	126.66	0.68	191.96	2.00	126.66	0.16	-2.69	8.33	8.75	107.89	2.71	MWD_M	None
49	128.66	0.87	189.82	2.00	128.66	0.19	-2.71	8.32	8.75	108.06	2.93	MWD_M	None
50	130.66	0.97	187.72	2.00	130.66	0.22	-2.75	8.32	8.76	108.27	1.61	MWD_M	None
51	132.66	1.25	187.37	2.00	132.66	0.26	-2.78	8.31	8.77	108.52	4.27	MWD_M	None
52	134.66	1.40	186.55	2.00	134.66	0.30	-2.83	8.31	8.78	108.81	2.30	MWD_M	None
53	136.66	1.66	186.65	2.00	136.66	0.35	-2.88	8.30	8.79	109.15	3.96	MWD_M	None
54	138.76	1.90	186.78	2.10	138.76	0.41	-2.95	8.29	8.80	109.57	3.48	MWD_M	None
55	140.66	2.12	187.54	1.90	140.65	0.47	-3.01	8.28	8.82	109.99	3.55	MWD_M	None
56	142.66	2.37	188.74	2.00	142.65	0.55	-3.09	8.27	8.83	110.49	3.88	MWD_M	None
57	144.66	2.64	189.86	2.00	144.65	0.63	-3.18	8.26	8.85	111.04	4.18	MWD_M	None
58	146.66	2.85	190.62	2.00	146.65	0.72	-3.27	8.24	8.87	111.65	3.25	MWD_M	None
59	148.66	3.07	191.59	2.00	148.65	0.82	-3.37	8.22	8.89	112.31	3.44	MWD_M	None
60	150.66	3.34	192.90	2.00	150.64	0.93	-3.48	8.20	8.91	113.02	4.26	MWD_M	None
61	152.66	3.59	194.13	2.00	152.64	1.05	-3.60	8.17	8.93	113.78	3.97	MWD_M	None
62	154.66	3.82	195.57	2.00	154.64	1.17	-3.72	8.14	8.95	114.60	3.78	MWD_M	None
63	156.66	3.94	196.59	2.00	156.63	1.31	-3.85	8.10	8.97	115.45	2.11	MWD_M	None
64	158.66	4.15	198.51	2.00	158.63	1.45	-3.99	8.06	8.99	116.34	3.81	MWD_M	None
65	160.66	4.32	200.37	2.00	160.62	1.59	-4.13	8.01	9.01	117.28	3.33	MWD_M	None
66	162.66	4.46	202.53	2.00	162.61	1.74	-4.27	7.95	9.03	118.24	3.30	MWD_M	None
67	164.66	4.70	204.24	2.00	164.61	1.90	-4.42	7.89	9.04	119.25	4.21	MWD_M	None
68	166.66	4.88	205.96	2.00	166.60	2.07	-4.57	7.82	9.05	120.31	3.51	MWD_M	None
69	168.66	4.99	208.02	2.00	168.59	2.24	-4.72	7.74	9.07	121.39	3.18	MWD_M	None
70	170.66	5.05	210.33	2.00	170.59	2.42	-4.87	7.65	9.07	122.49	3.21	MWD_M	None
71	172.66	5.21	212.62	2.00	172.58	2.60	-5.03	7.56	9.08	123.62	3.96	MWD_M	None
72	174.66	5.26	214.97	2.00	174.57	2.78	-5.18	7.46	9.08	124.77	3.36	MWD_M	None
73	176.66	5.38	216.71	2.00	176.56	2.96	-5.33	7.35	9.08	125.94	3.06	MWD_M	None
74	178.66	5.47	218.25	2.00	178.55	3.15	-5.48	7.24	9.08	127.14	2.61	MWD_M	None
75	180.66	5.46	220.58	2.00	180.54	3.33	-5.63	7.11	9.07	128.34	3.39	MWD_M	None
76	182.66	5.57	222.21	2.00	182.53	3.52	-5.77	6.99	9.06	129.55	2.92	MWD_M	None
77	184.66	5.51	224.72	2.00	184.52	3.70	-5.91	6.85	9.05	130.77	3.80	MWD_M	None
78	187.46	5.48	227.37	2.80	187.31	3.96	-6.10	6.66	9.03	132.47	2.78	MWD_M	None
79	196.67	5.54	228.80	9.21	196.48	4.78	-6.69	6.00	8.99	138.09	0.50	MWD_M	None
80	209.16	5.89	229.07	12.49	208.91	5.94	-7.50	5.07	9.05	145.98	0.86	MWD_M	None
81	217.66	6.33	225.20	8.50	217.36	6.79	-8.12	4.40	9.24	151.53	2.16	MWD_M	None
82	227.85	7.48	218.96	10.19	227.47	7.97	-9.03	3.59	9.72	158.34	4.10	MWD_M	None
83	251.74	8.80	209.91	23.89	251.12	11.32	-11.83	1.70	11.95	171.83	2.34	MWD_M	None
84	267.36	9.50	202.96	15.62	266.55	13.80	-14.05	0.60	14.06	177.55	2.55	MWD_M	None
85	281.30	9.77	197.69	13.94	280.29	16.11	-16.23	-0.21	16.24	180.73	2.02	MWD_M	None
86	310.66	9.68	198.83	29.36	309.23	21.01	-20.94	-1.76	21.02	184.81	0.22	MWD_M	None
87	339.16	9.77	199.97	28.50	337.32	25.78	-25.48	-3.36	25.70	187.51	0.23	MWD_M	None
88	369.16	10.73	198.83	30.00	366.84	31.07	-30.52	-5.13	30.95	189.54	1.00	MWD_M	None
89	397.59	12.23	198.57	28.43	394.70	36.67	-35.88	-6.95	36.55	190.96	1.61	MWD_M	None
90	428.70	13.90	198.57	31.11	425.00	43.62	-42.55	-9.18	43.53	192.18	1.64	MWD_M	None
91	456.74	14.08	198.48	28.04	452.21	50.32	-48.97	-11.34	50.27	193.04	0.20	MWD_M	None
92	486.51	13.55	199.01	29.77	481.12	57.35	-55.71	-13.62	57.35	193.74	0.56	MWD_M	None
93	511.01	14.08	199.10	24.50	504.91	63.14	-61.23	-15.53	63.17	194.23	0.66	MWD_M	None
94	544.75	14.60	200.15	33.74	537.60	71.42	-69.11	-18.34	71.50	194.86	0.53	MWD_M	None
95	573.45	14.78	200.06	28.70	565.36	78.65	-75.94	-20.84	78.75	195.35	0.19	MWD_M	None
96	584.77	14.87	200.33	11.32	576.30	81.52	-78.66	-21.84	81.63	195.52	0.31	MWD_M	None
97	625.93	15.90	204.02	41.16	615.99	92.39	-88.76	-25.97	92.48	196.31	1.05	MWD_M	None
98	655.19	16.22	209.88	29.26	644.11	100.48	-95.97	-29.64	100.44	197.16	1.72	MWD_M	None
99	684.66	15.92	210.09	29.47	672.43	108.63	-103.03	-33.72	108.41	198.12	0.32	MWD_M	None
100	713.95	16.16	209.41	29.29	700.58	116.71	-110.06	-37.73	116.35	198.92	0.32	MWD_M	None
101	743.19	15.68	208.22	29.24	728.70	124.73	-117.08	-41.60	124.25	199.56	0.61	MWD_M	None
102	772.40	14.98	208.55	29.21	756.87	132.45	-123.88	-45.27	131.89	200.07	0.74	MWD_M	None
103	801.40	14.91	209.56	29.00	784.89	139.92	-130.42	-48.90	139.28	200.55	0.28	MWD_M	None
104	830.63	14.94	208.77	29.23	813.13	147.45	-136.99	-52.57	146.73	200.99	0.21	MWD_M	None
105	859.76	15.02	208.82	29.13	841.27	154.97	-143.59	-56.20	154.19	201.37	0.08	MWD_M	None
106	889.23	14.88	208.70	29.47	869.74	162.57	-150.25	-59.85	161.74	201.72	0.15	MWD_M	None
107	918.51	14.66	208.30	29.28	898.06	170.04	-156.81	-63.42	169.15	202.02	0.25	MWD_M	None
108	947.98	14.89	209.02	29.47	926.55	177.55	-163.41	-67.02	176.62	202.30	0.30	MWD_M	None
109	977.14	14.96	209.35	29.16	954.73	185.06	-169.96	-70.68	184.08	202.58	0.12	MWD_M	None
110	1006.32	14.71	208.53	29.18	982.93	192.52	-176.50	-74.30	191.50	202.83	0.34	MWD_M	None
111	1035.66	14.82	209.66	29.34	1011.31	200.00	-183.04	-77.93	198.94	203.06	0.32	MWD_M	None
112	1064.89	14.66	209.55	29.23	1039.57	207.43	-189.50	-81.61	206.33	203.30	0.17	MWD_M	None
113	1094.20	14.74	211.09	29.31	1067.92	214.85	-195.92	-85.36	213.71	203.54	0.41	MWD_M	None
114	1123.53	14.71	211.77	29.33	1096.29	222.29	-202.28	-89.25	221.10	203.81	0.18	MWD_M	None
115	1152.85	15.04	212.46	29.32	1124.63	229.79	-208.66	-93.25	228.55	204.08	0.39	MWD_M	None
116	1182.12	14.69	209.57	29.27	1152.92	237.28	-215.09	-97.12	236.00	204.30	0.85	MWD_M	None
117	1211.30	14.68	206.12	29.18	1181.15	244.67	-221.63	-100.58	243.38	204.41	0.91	MWD_M	None
118	1240.74	14.15	206.77	29.44	1209.66	252.00	-228.19	-103.84	250.70	204.47	0.57	MWD_M	None
119	1269.92	13.90	210.27	29.18	1237.97	259.07	-234.40	-107.21	257.76	204.58	0.92	MWD_M	None
120	1299.50	13.73	213.99	29.58	1266.70	266.10	-240.38	-110.97	264.76	204.78	0.93	MWD_M	None

121	1328.69	13.96	212.17	29.19	1295.04	273.05	-246.23	-114.78	271.67	204.99	0.51	MWD_M	None
122	1357.81	14.35	210.06	29.12	1323.27	280.15	-252.33	-118.46	278.75	205.15	0.68	MWD_M	None
123	1387.06	14.47	208.60	29.25	1351.60	287.42	-258.68	-122.02	286.01	205.25	0.40	MWD_M	None
124	1416.40	14.49	205.63	29.34	1380.01	294.76	-265.20	-125.36	293.34	205.30	0.77	MWD_M	None
125	1445.66	14.27	203.93	29.26	1408.36	302.02	-271.80	-128.41	300.61	205.29	0.50	MWD_M	None
126	1474.99	14.64	207.57	29.33	1436.76	309.33	-278.39	-131.59	307.92	205.30	1.02	MWD_M	None
127	1504.27	14.41	209.48	29.28	1465.10	316.67	-284.84	-135.10	315.25	205.37	0.55	MWD_M	None
128	1533.67	14.42	207.32	29.40	1493.58	323.99	-291.28	-138.58	322.56	205.44	0.56	MWD_M	None
129	1562.71	14.32	206.77	29.04	1521.71	331.20	-297.70	-141.85	329.77	205.48	0.18	MWD_M	None
130	1592.18	14.27	205.46	29.47	1550.27	338.47	-304.23	-145.06	337.04	205.49	0.34	MWD_M	None
131	1621.56	15.02	205.25	29.38	1578.69	345.90	-310.94	-148.24	344.47	205.49	0.78	MWD_M	None
132	1650.85	14.85	205.80	29.29	1606.99	353.44	-317.76	-151.49	352.02	205.49	0.23	MWD_M	None
133	1680.39	14.93	206.81	29.54	1635.54	361.03	-324.56	-154.85	359.61	205.51	0.28	MWD_M	None
134	1709.10	15.86	206.11	28.71	1663.22	368.65	-331.38	-158.25	367.23	205.53	1.01	MWD_M	None
135	1738.52	15.34	203.39	29.42	1691.55	376.55	-338.56	-161.56	375.14	205.51	0.93	MWD_M	None
136	1767.97	15.56	201.42	29.45	1719.94	384.37	-345.82	-164.55	382.97	205.45	0.59	MWD_M	None
137	1797.30	15.79	203.69	29.33	1748.18	392.27	-353.13	-167.59	390.88	205.39	0.68	MWD_M	None
138	1826.72	15.68	205.51	29.42	1776.50	400.24	-360.39	-170.91	398.86	205.37	0.52	MWD_M	None
139	1856.15	15.77	207.85	29.43	1804.83	408.21	-367.51	-174.49	406.83	205.40	0.66	MWD_M	None
140	1885.47	15.47	210.31	29.32	1833.06	416.10	-374.41	-178.33	414.71	205.47	0.76	MWD_M	None
141	1914.60	15.71	208.22	29.13	1861.12	423.92	-381.24	-182.15	422.52	205.54	0.64	MWD_M	None
142	1943.73	15.58	205.83	29.13	1889.17	431.78	-388.24	-185.72	430.37	205.57	0.69	MWD_M	None
143	1973.09	15.56	203.40	29.36	1917.46	439.65	-395.40	-189.00	438.25	205.55	0.68	MWD_M	None
144	2002.63	15.54	205.83	29.54	1945.92	447.56	-402.60	-192.30	446.17	205.53	0.67	MWD_M	None
145	2031.86	15.58	209.23	29.23	1974.07	455.39	-409.55	-195.92	454.00	205.57	0.95	MWD_M	None
146	2061.17	15.43	212.43	29.31	2002.32	463.21	-416.27	-199.94	461.80	205.66	0.90	MWD_M	None
147	2090.40	15.47	215.54	29.23	2030.49	470.94	-422.73	-204.29	469.50	205.79	0.86	MWD_M	None
148	2119.77	15.10	213.93	29.37	2058.82	478.62	-429.09	-208.70	477.15	205.94	0.58	MWD_M	None
149	2148.86	15.06	211.56	29.09	2086.91	486.15	-435.45	-212.79	484.67	206.04	0.65	MWD_M	None
150	2178.21	15.05	209.16	29.35	2115.26	493.76	-442.03	-216.65	492.27	206.11	0.65	MWD_M	None
151	2207.53	15.15	206.46	29.32	2143.56	501.39	-448.78	-220.21	499.90	206.14	0.74	MWD_M	None
152	2236.73	15.13	203.55	29.20	2171.75	509.01	-455.69	-223.43	507.52	206.12	0.79	MWD_M	None
153	2265.88	15.16	202.00	29.15	2199.89	516.60	-462.71	-226.38	515.12	206.07	0.42	MWD_M	None
154	2295.20	15.30	205.05	29.32	2228.18	524.29	-469.77	-229.45	522.82	206.03	0.85	MWD_M	None
155	2324.26	15.12	207.01	29.06	2256.22	531.91	-476.62	-232.80	530.44	206.03	0.57	MWD_M	None
156	2353.69	14.98	208.10	29.43	2284.64	539.55	-483.40	-236.33	538.08	206.05	0.33	MWD_M	None
157	2382.99	14.97	208.38	29.30	2312.95	547.12	-490.07	-239.92	545.64	206.08	0.08	MWD_M	None
158	2412.25	14.90	210.09	29.26	2341.22	554.66	-496.65	-243.60	553.17	206.13	0.46	MWD_M	None
159	2441.61	14.90	210.72	29.36	2369.59	562.19	-503.16	-247.42	560.70	206.18	0.17	MWD_M	None
160	2470.87	15.14	212.27	29.26	2397.85	569.75	-509.62	-251.38	568.25	206.26	0.49	MWD_M	None
161	2499.77	15.34	211.52	28.90	2425.74	577.33	-516.07	-255.39	575.81	206.33	0.30	MWD_M	None
162	2529.30	15.41	207.80	29.53	2454.21	585.14	-522.88	-259.27	583.62	206.37	1.02	MWD_M	None
163	2558.69	15.28	203.33	29.39	2482.55	592.91	-529.89	-262.62	591.40	206.36	1.23	MWD_M	None
164	2579.00	15.20	202.50	20.31	2502.15	598.24	-534.80	-264.70	596.72	206.33	0.35	Proj. TD	

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Company:	ESSO Australia Pty Ltd	Schlumberger
Well:	CBA A33	
Field:	Halibut	
Rig:	ISDL 175	9.875 in. Section
State:	Victoria	
VISION Resistivity (Trip Out)		
1:200 Measured Depth		
Recorded Mode Log		

