Schlumberger

Company: **Nexus Energy Limited**

13.5 in. Section

Well: **Longtom−4**

Field: **Longtom**

Rig: **West Triton** State: **Victoria**

Rig: West Triton
Field: Longtom
Location: Bass Strait
Well: Longtom−4
Company: Nexus Energy Limited

VISION Service
1:200 Measured Depth
Recorded Mode Log

Location

		Elevation		
Total depth:	2600 m		K.B.	Top Drive
Spud date:	20−June−08		G.L.	−97.06 m
Runs:	3 To 4		D.F.	41.06 m

Permanent datum: Least Astronomical Tide Elev.: 0.0 m
Log measured from: Drill Floor 41.06 m above Perm. datum
Depth reference: Driller's Depth

Job no.	X = 616897.309m E	Longitude	Latitude
08ASQ0007	Y = 5781704.499m N	148° 19' 59.944" E	38° 06' 17.707" S

Depth logged: 749.0 m To 2573.0 m
Date logged: 29−Jun−08 To 7−Jul−08
Mag decl: 13.1 deg.
Mag dip: −68.59 deg.
Other services: See Remarks

Bore hole record

Hole size	from	to
13.5 in.	755.2 m	2600.0 m

Casing record

Size	Density	from	to
16.0 in.	246.7 lbm/m	128.8 m	749.0 m

Mud record

Type	from	to
OBM	755.2 m	2600.0 m

Borehole deviation record

Min	Max	from	to
0.19 deg.	52.52 deg.	755.2 m	2600.0 m

Surface equipment

Unit	OLU−KC−0702
Depth system	PDA/CLT

Software record

IDEAL Wis	ID13_0c_08		
HSPM	13_0c_03		
LWD	9.3B13,8.2A		
MWD	9.2C02		

Bit Run Summary

Run number		3	4
Bit size	in.	13.5	13.5
Bit start depth	m	749.0	2031.0
Bit end depth	m	2031.0	2600.0
Top interval logged	m	749.0	2004.0
Bottom interval logged	m	2004.0	2573.0
Begin log: time		16:00	14:00
Begin log: date		29−Jun−08	03−Jul−08
End log: time		05:00	00:00
End log: date		03−Jul−08	07−Jul−08
Mud data			
Depth	m	1685.0	2347.0
Type		OBM	OBM
Mud weight	ppg	12.1	12.0
Solids	%	17.5	18.8
Chlorides	mg/L	3775	n/a
Rm	ohm.m@°C	n/a	n/a
Rmf	ohm.m@°C	n/a	n/a
Rmc	ohm.m@°C	n/a	n/a

Potassium	%	n/a	n/a								
Environmental data											
GR											
Mud weight	ppg	12.1	12.0								
Bit size	in.	13.5	13.5								
Resistivity											
Neutron porosity											
Hole Size	in.	13.5	13.5								
Mud weight	ppg	12.1	12.0								
Temperature	ºC	61.0	60.0								
Mud salinity	ppk	84.0	54.1								
Formation salinity		n/a	n/a								
Recording rate 1	SEC	6 (Res)	10 (Res)								
Recording rate 2	SEC	10 (De,Nu)	10 (De,Nu)								
Filtering GR		3 pts	3 pts								
Filtering density		3 pts	3 pts								
Filtering Neutron		3 pts	3 pts								
Company representative		S.De Freitas	S.Stefan	S.T.D.Aung	P.Sellathurai	P.Dassens	J.Condon				
Anadrill personnel		YuDa	Chris.H								

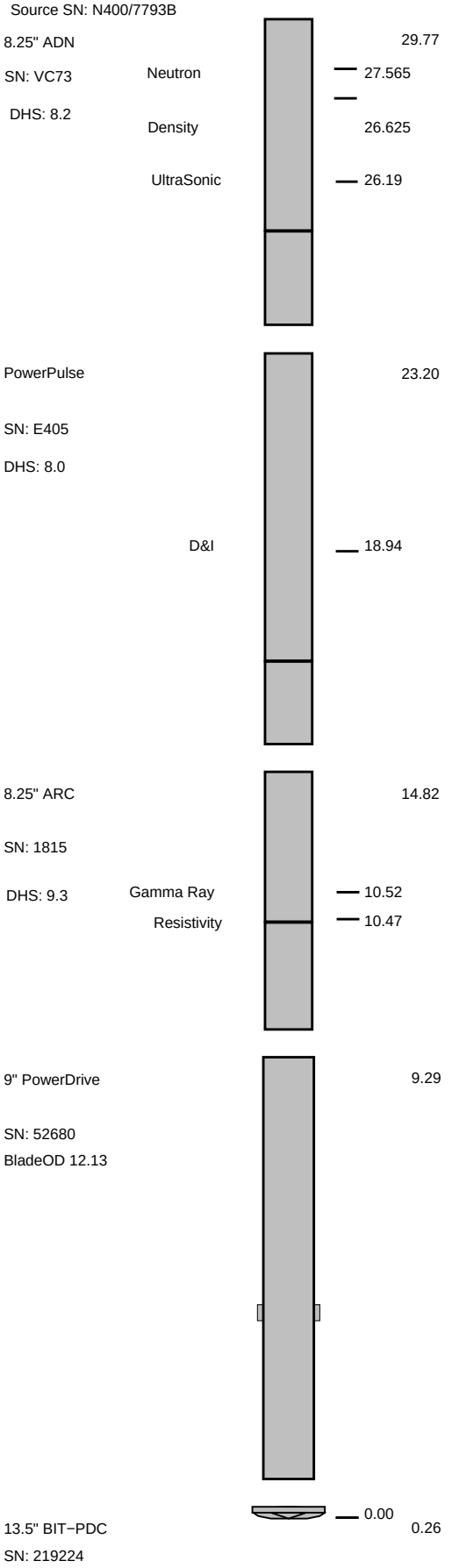
OTHER SERVICES FOR RUN3	OTHER SERVICES FOR RUN4	OTHER SERVICES FOR RUN
Directional Drilling Directional Surveys Shock & Vibrations	Directional Drilling Directional Surveys Shock & Vibrations	

REMARKS: RUN NUMBER 3	REMARKS: RUN NUMBER 4	REMARKS: RUN NUMBER
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. POOH due to reaching Downhole Tool Failure.	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. Low Data density between 2013.0m & 2019.0m due to tripping in speed before tagging botttom. POOH due to reaching TD.	

EQUIPMENT DESCRIPTION

RUN3	RUN4	RUN

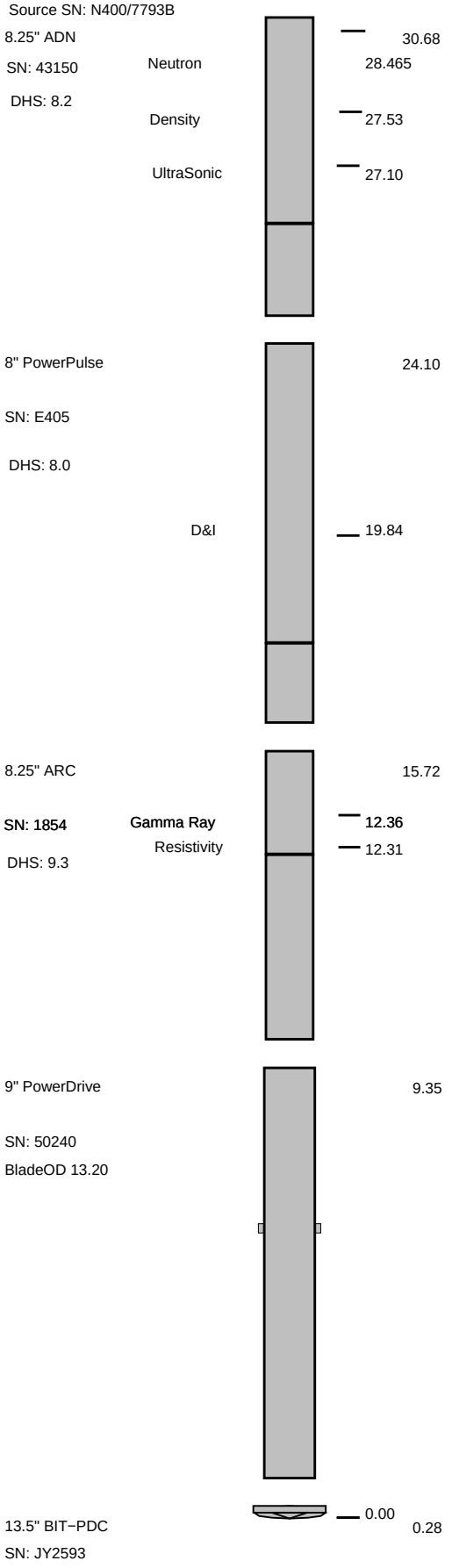
DOWNHOLE EQUIPMENT



Maximum string diameter 13.50 in.

All lengths in Meters

DOWNHOLE EQUIPMENT



Maximum string diameter 13.50 in.

All lengths in Meters

Variable Name	Variable Description		Run Name & Value	
	Run Number		3	4
	General Information			
BHT_RM	Bottom Hole Temperature (RM)	DEGC	84.000	92.000
BSAL_RM	Mud Salinity (RM)	PPK	84.000	54.100
BS_RM	Bit Size (RM)	IN	13.500	13.500
COEF_M	User Defined FEXP in Clean Sand	----	1.650	1.650
C_WS	Overpressure correction to Sw and M	----	1.000	1.000
FEXP	Formation Factor Exponent(RM)	----	2.000	2.000
FNUM	Formation Factor Enumerator(RM)	----	1.000	1.000
FPHI_RM	Formation Factor Porosity Source (RM)	----	DENSITY	DENSITY
MST_RM	Mud Sample temperature (RM)	DEGC	61.000	60.000
MW_RM	Mud Weight (RM)	LB/G	12.000	12.000
OBMF_RM	Oil Based Mud (RM)	----	YES	YES
RHOF_RM	Mud Filtrate Density (RM)	G/C3	1.000	1.000
RHOM_RM	Matrix density (RM)	G/C3	2.710	2.710
RMS_RM	Resistivity of Mud Sample (RM)	OHMM	1000.000	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	1.000
SHT_RM	Ground Level Temperature (Mud-Line When Offshore) (RM)	DEGC	22.000	22.000
TD_RM	Total Measured Depth (RM)	M	2031.000	2600.000
TWS_RM	Temperature of Connate Water (RM)	DEGC	24.000	24.000
VF_ILLI	Fraction of illite in shales	----	0.500	0.500
VF_KAOL	Fraction of kaolinite in shales	----	0.500	0.500
VF_MONT	Fraction of montmorillonite in shales	----	0.000	0.000
XPDM_RM	Cross plot density porosity multiplier	----	0.675	0.675
XPNM_RM	Cross plot neutron porosity multiplier	----	0.325	0.325
	ARC			
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	DB	8.438	8.586
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.462	8.591
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	6.238	6.067
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	6.221	6.072
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	5.150	5.303
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	5.167	5.307
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	4.185	4.022
A44A	**ARC Air Cal Attenuation From T4 at 400 KHz**	**DB**	**4.158**	**4.024**
A52A	**ARC Air Cal Attenuation From T5 at 2 MHz**	**DB**	**3.737**	**3.895**
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB	3.767	3.908
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed	No_Tx_Failed
ADHS	ARC Down Hole Software Version	----	No_Tx_Failed	No_Tx_Failed
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000	-50000.000
ANISO_COMPUTE	Anisotropy Computation Option	----	YES	YES
APICG	ARC5 Gamma Ray Gain Factor	----	1.115	1.165
APIG	ARC Gamma Ray API Gain Factor	----	-1.000	-1.000
ATMP_ARC	ARC Select Temperature Channel	----	Annulus_Temp	Annulus_Temp
ATRN	ARC Tool Run Number	----	3	4
ATSN	ARC Tool Serial Number	----	1815	1854
AZMF	Formation DIP Azimuth	DEG	0.000	0.000
BH_COMPUTE	Borehole Inversion Computation Option	----	YES	YES
CALG	ARC Gamma Ray Cal Gain Factor	----	1.115	1.165
CALI_SLCT_ARC	ARC Caliper Selection	----	BITSIZE	BITSIZE
CDPTH_ARC	Process Start Depth	M	30.480	30.480
DIELEC_COMPUTE	Dielectric Computation Option	----	YES	YES
DIPF	Formation DIP Angle	DEG	0.000	0.000
ERRCT	Percentage Error Cutoff	----	4.500	4.500
GRSH	GR Shale (Invasion Computation Cutoff)	GAPI	1000.000	1000.000
HIGH_BLEND	High Resistivity Threshold for Blending	OHMM	2.000	2.000
INCLIN_B0	ARC Bias Constant (mg)	----	0.000	0.000
INCLIN_B1	ARC Bias First-order Coefficient (mg/degC)	----	0.000	0.000
INCLIN_B2	ARC Bias Secod-order Coeeficient (mg/degC)	----	0.000	0.000
INCLIN_B3	ARC Bias Third-order Coeeficient (mg/degC)	----	0.000	0.000
INCLIN_C0	ARC Current Scale Factor Constant (mA/g)	----	1.000	1.000
INCLIN_C1	ARC Scale First-order Coeeficient (mA/g/degC)	----	0.000	0.000
INCLIN_C2	ARC Scale Second-order Coeeficient (mA/g/degC)	----	0.000	0.000
INCLIN_C3	ARC Scale Third-order Coeeficient (mA/g/degC)	----	0.000	0.000
INVAS_COMPUTE	Invasion Computation Option	----	YES	YES
JSD_ARC	ARC Acquisition start date	----	YES	YES
KPER	Potassium Concentration (RM)	----	0.000	0.000
LOW_BLEND	Low Resistivity Threshold for Blending	OHMM	1.000	1.000
MSWS	ARC Wizard Model Switch Window	M	1.524	1.524
MULTIEFFECT_COM	Multi Effect Option	----	YES	YES
P11AC_RM	ARC: Air Calibration For Phase T1 to R1	DEG	-999.250	-999.250
P12A	ARC Air Cal Phase-Shift From T1 at 2 MHz	DEG	2.172	0.575
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	-0.328	0.319
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-2.111	-0.549
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	0.306	-0.357
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	2.077	0.491
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	-0.313	0.338
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-2.142	-0.629
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	0.239	-0.403
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	2.056	0.481
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	-0.312	0.328
POFFSET_ARC	ARC: Pressure Offset	PSI	0.000	0.000
PRTD	Preferred Resistivity Log for Rt Display while Multi-Effects	----	P34B	P34B

PSOF_ADJ_T1	ARC: User Input Phase offset	DEG	0.000	0.000
RESTIK	ARC resistivity tick source	----	Phase	Phase
RSD	LWD run start date dd-mmm-yy	OHMM	29-Jun-08	03-Jul-08
RWA_COMP_MOD	Rwa computation model	----	CLAYCORR	CLAYCORR
RWA_DEN_ADN	Rwa Density Input	----	RHOB	RHOB
RWA_DEN_CDN	Rwa Density Input	----	RHOB	RHOB
RWA_DEN_INPUT	Rwa Density Input	----	RHOB	RHOB
RWA_FORM_MOD	Rwa computation formation model	----	CLASTIC	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	----	P28H	P28H
SHIG	ARC High Shock Risk Level	CPS	0.500	0.500
SMED	ARC Medium Shock Risk Level	CPS	0.330	0.330
SMIN	ARC Minimum Shock Risk Level	CPS	0.160	0.160
SUPD	ARC Real Time Shock Update Rate	S	30.000	30.000
TCODE_ARC	ARC Tool File Code	S	30.000	30.000
TSIZ_ARC	ARC Tool Size	IN	8.250	8.250
UNIFORM_COMPUTE	Uniform Rock Option	----	YES	YES
VERS_ARC	ARC Down hole software version Number	----	9.300	9.300
WRK	to Report Potassium Concentration (RM)	----	K_by_Wgt_%	K_by_Wgt_%
	ADN			
ADN_DATA_FIX	ADN: Create A Corrected ADN Time Data File	----	NO	NO
ADN_DATA_LTB	ADN: Create An ADN LTB Data File	----	NO	NO
ALPHA_COMPUTE_D	Perform Density Enhanced Vertical Resolution process ?	----	NO	YES
ALPHA_COMPUTE_N	Perform Neutron Enhanced Vertical Resolution process ?	----	NO	YES
AVE_ADN	ADN/Array Channels: perform averaging(RM) :	----	YES	YES
A_DHS	ADN Down Hole Software Version String	----	YES	YES
CHI_RM	Caliper High limit from BS (RM)	IN	3.000	3.000
CLO_RM	Caliper Low limit from BS (RM)	IN	0.000	0.000
DEVI	Well Section Deviation	DEG	20.870	25.000
DTIK_SEL	ADN: Density Tick Channel Name	----	LSAZ	LSAZ
DTMUD	Delta-T for Mud	US/F	216.000	208.000
DYN_IMG_COMPUTE	Generate Dynamic Normalized Image?	----	YES	YES
ENVCOR	Neutron Processing: Environmental Correction?	----	YES	YES
EVRL	EVR Process averaging number of samples (RM)	----	49	49
FAZ1_AVAIL	ADN8 Neutron Far Tube 1 Available?	----	YES	YES
FAZ2_AVAIL	ADN8 Neutron Far Tube 2 Available?	----	YES	YES
FAZ3_AVAIL	ADN8 Neutron Far Tube 3 Available?	----	YES	YES
FAZ4_AVAIL	ADN8 Neutron Far Tube 4 Available?	----	YES	YES
FAZ5_AVAIL	ADN8 Neutron Far Tube 5 Available?	----	YES	YES
FCD	Future Casing (Outer) Diameter	IN	0.000	0.000
GCSE	Generalized Caliper Selection	----	BS	BS
IDQT	Image Derived Quality Threshold	----	2.000	1.000
IHVS	Integrated Hole Volume Start Value(RM)	F3	0.000	0.000
IMAGE_MAX_SOA	Image SOA (Quadrant) Right Scale	IN	2.500	2.500
IMAGE_MAX_SPEF	Image PEF(Segment) Right Scale	----	6.000	6.000
IMAGE_MAX_SRHOB	Image RHOB(Segment) Right Scale	G/C3	2.650	2.650
IMAGE_MIN_SOA	Image SOA (Quadrant) Left Scale	IN	0.000	0.000
IMAGE_MIN_SPEF	**Image PEF(Segment) Left Scale**	**----**	**2.000**	**2.000**
IMAGE_MIN_SRHOB	**Image RHOB(Segment) Left Scale**	**G/C3**	**2.050**	**2.050**
JSD_ADN	ADN Acquisition start date	G/C3	2.050	2.050
LITHO_TYPE_ADN	Lithology (RM)	----	LIME	LIME
N1FTU_6_RM	ADN: Neutron Bank 1 Far Tubes used :	----	1-2-3	1-2-3
N2FTU_6_RM	ADN: Neutron Bank 2 Far Tubes used :	----	1-2-3	1-2-3
NNTU_8_RM	ADN: Neutron Near Tube used :	----	1-2-3	1-2-3
NTIK_SEL	ADN: Neutron Tick Channel Name	----	FAZ1	FAZ1
SOCNL	Standoff Distance of the CNL Tool	----	1.000	1.000
SSIZ_ADN	ADN Stabilizer Size	IN	8.250	8.250
STOH	ADN Density Top of Hole Sector (Left Boundary):	----	SECTOR_14	SECTOR_13
TRPM_RM	Average Tool Rotational Speed	RPM	20.000	20.000
USMIN_RM	ADN:Minimum Ultrasonic standoff (RM)	IN	0.180	0.180
USWF_RM	ADN:Process Ultrasonic Waveform?	----	YES	YES
VERS_ADN	ADN Downhole Software Version	----	8.200	8.200
WSDI	Window Size of Dynamic Normalization Image	M	4.572	4.572

Schlumberger Drilling & Measurements ID13 Parameter Insert Header Software vers:

Longtom−4 RM 200MD Log

Format: 200MD_ADN_ARC **Vertical Scale: 1:200** **Graphics File Created: 23−Sep−2008 21:27**

PIP SUMMARY

Density Ticks, 0.1−ft

ARC Gamma Ray Samples

ARC Resistivity Samples

Neutron Ticks, 0.1 ft

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

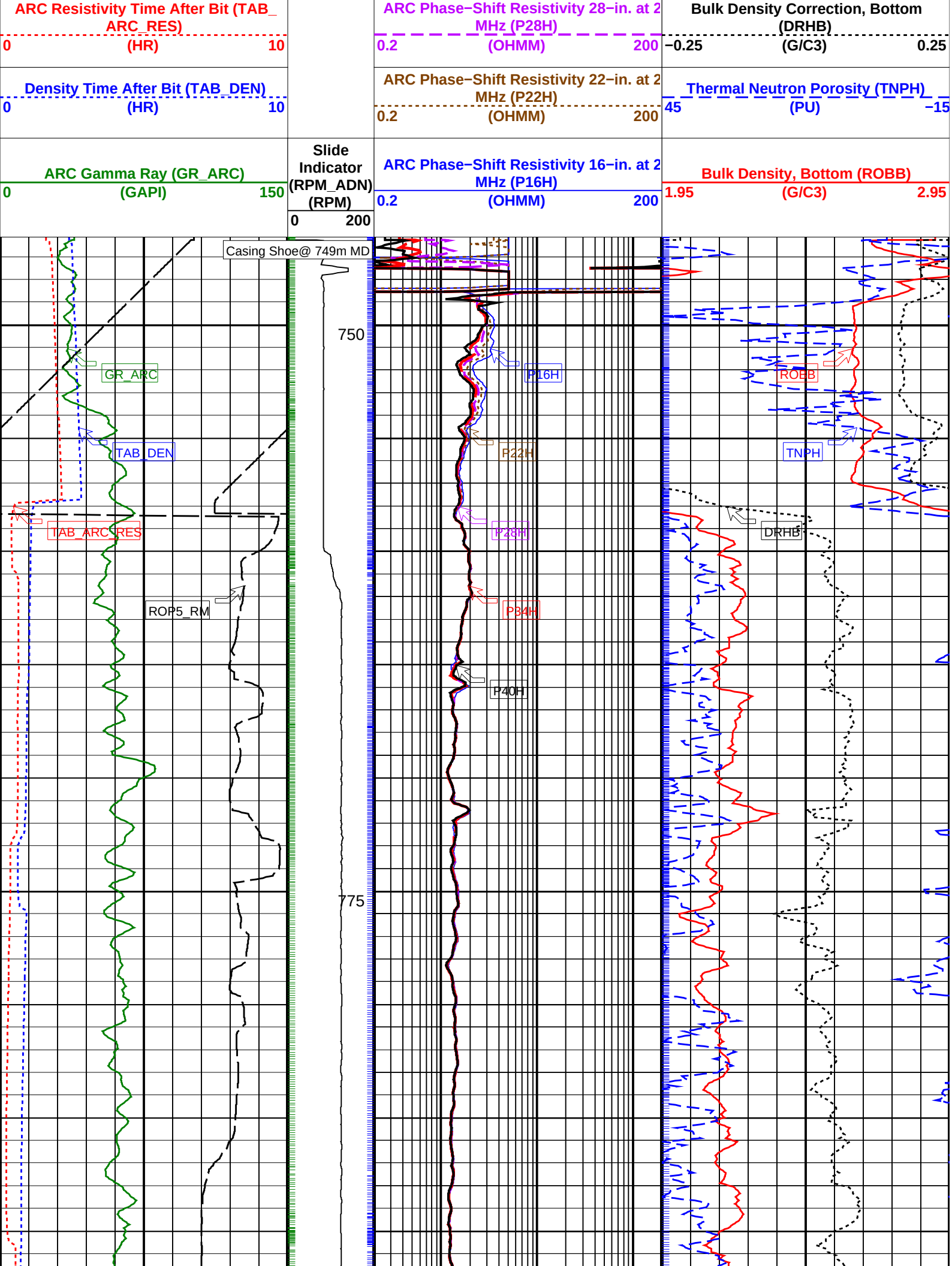
0.2 **(OHMM)** **200**

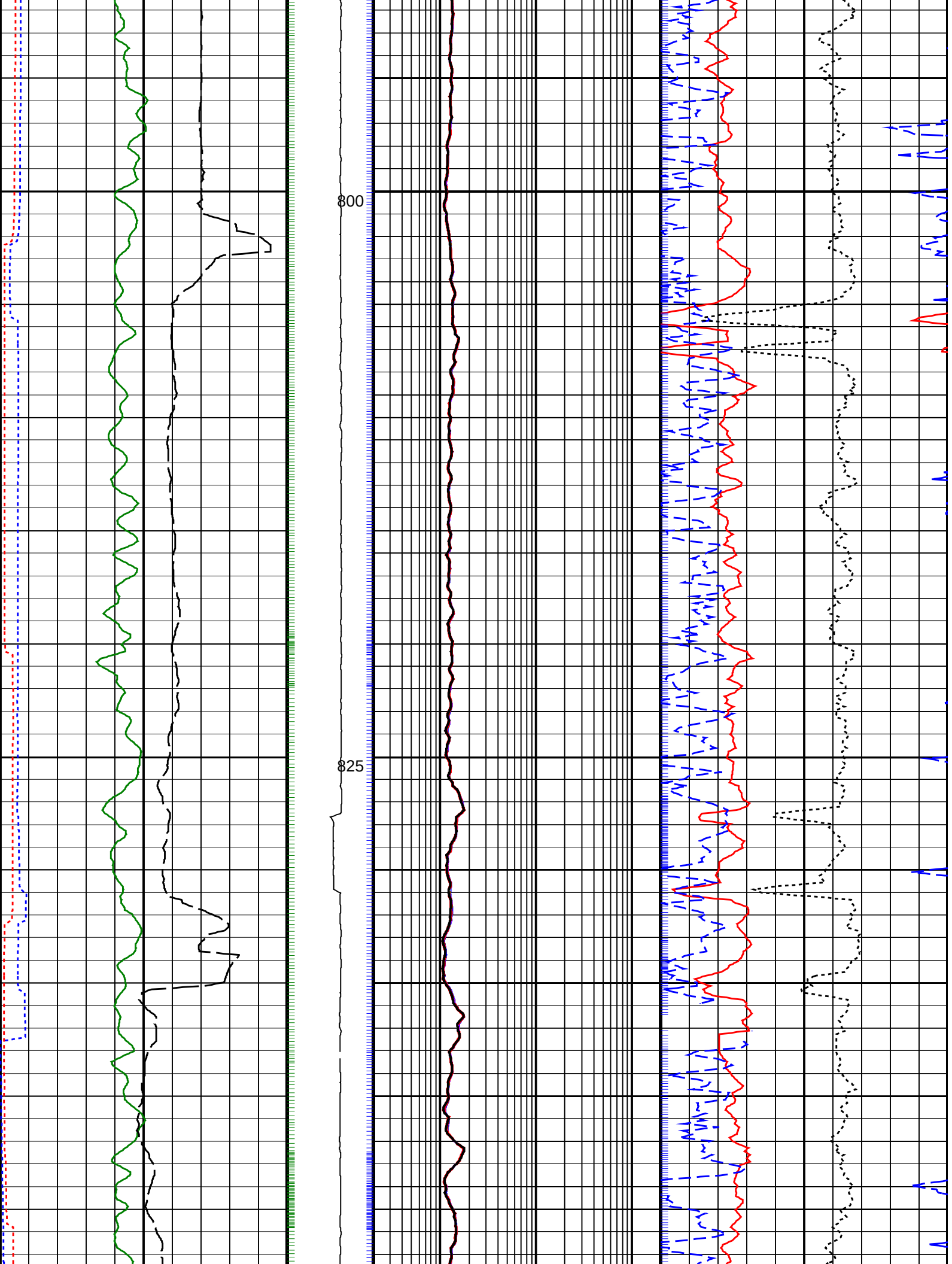
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)

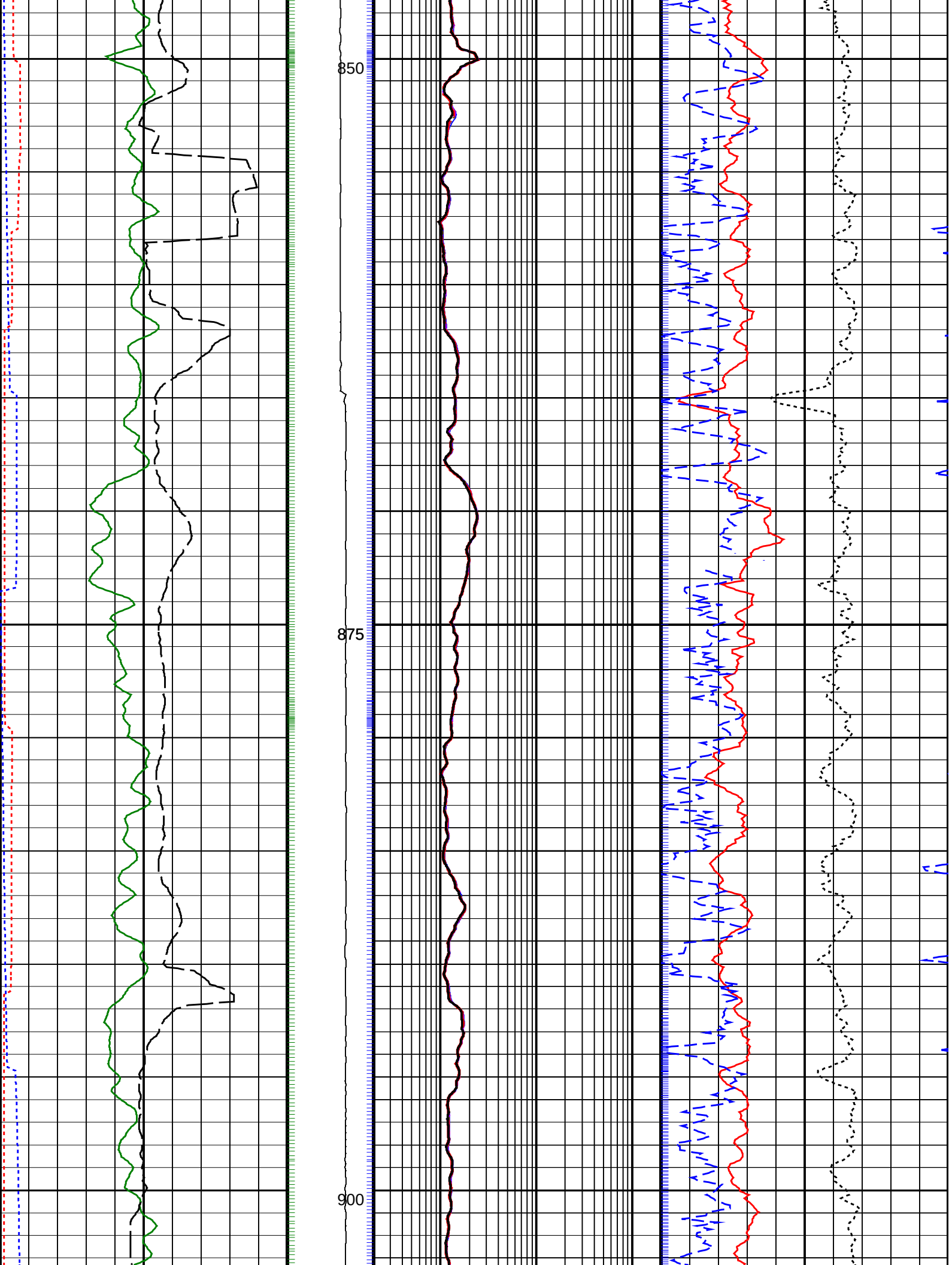
200 **(M/HR)** **0**

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

0.2 **(OHMM)** **200**


ARC Resistivity Time After Bit (TAB_ARC_RES)
0 (HR) 10
Density Time After Bit (TAB_DEN)
0 (HR) 10
ARC Gamma Ray (GR_ARC)
0 (GAPI) 150
Slide Indicator (RPM_ADN) (RPM)
0 200
ARC Phase−Shift Resistivity 28−in. at 2 MHz (P28H)
0.2 (OHMM) 200
ARC Phase−Shift Resistivity 22−in. at 2 MHz (P22H)
0.2 (OHMM) 200
ARC Phase−Shift Resistivity 16−in. at 2 MHz (P16H)
0.2 (OHMM) 200
Bulk Density Correction, Bottom (DRHB)
−0.25 (G/C3) 0.25
Thermal Neutron Porosity (TNPH)
45 (PU) −15
Bulk Density, Bottom (ROBB)
1.95 (G/C3) 2.95
Casing Shoe@ 749m MD
750
775
GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB


800
825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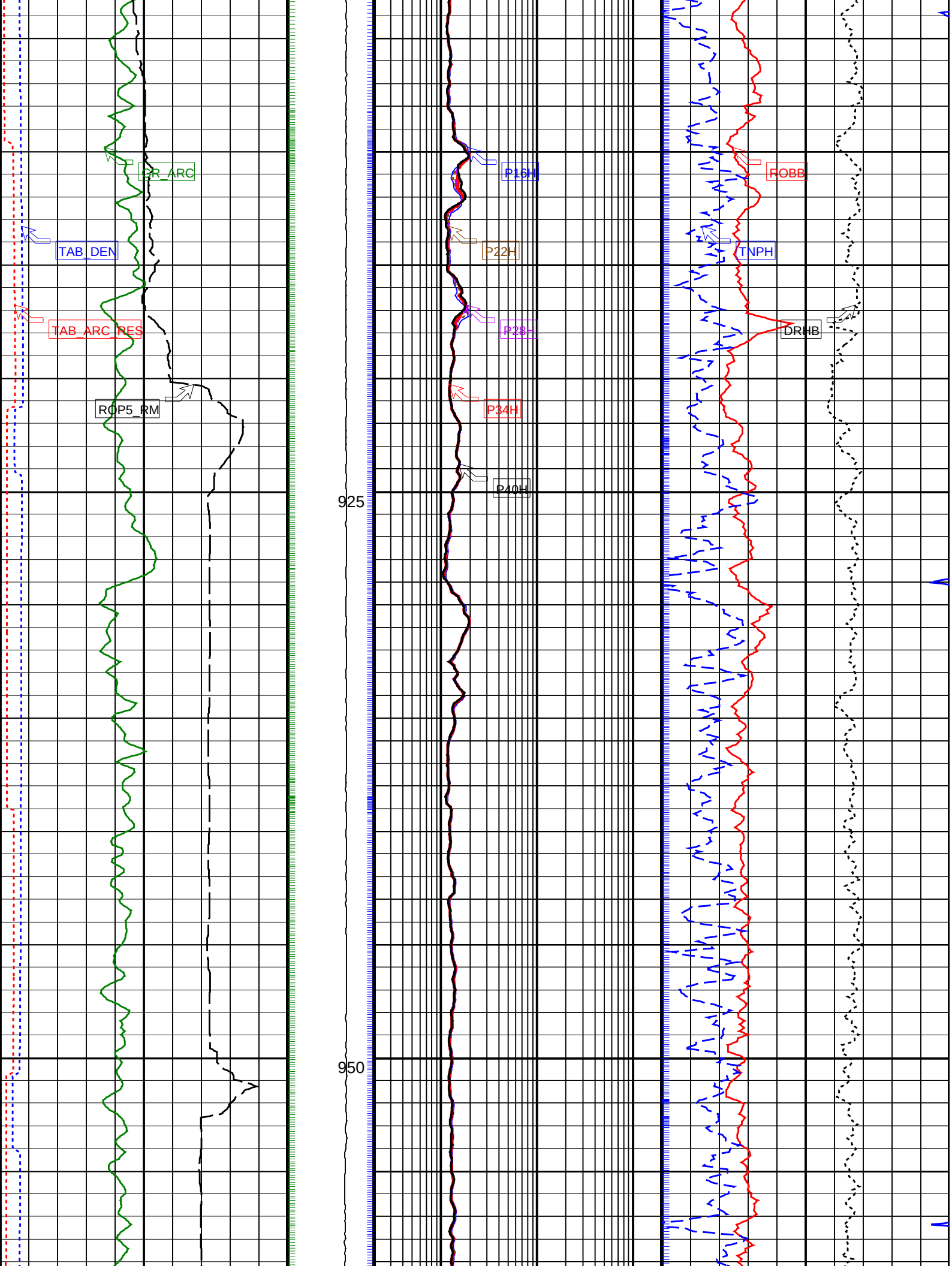
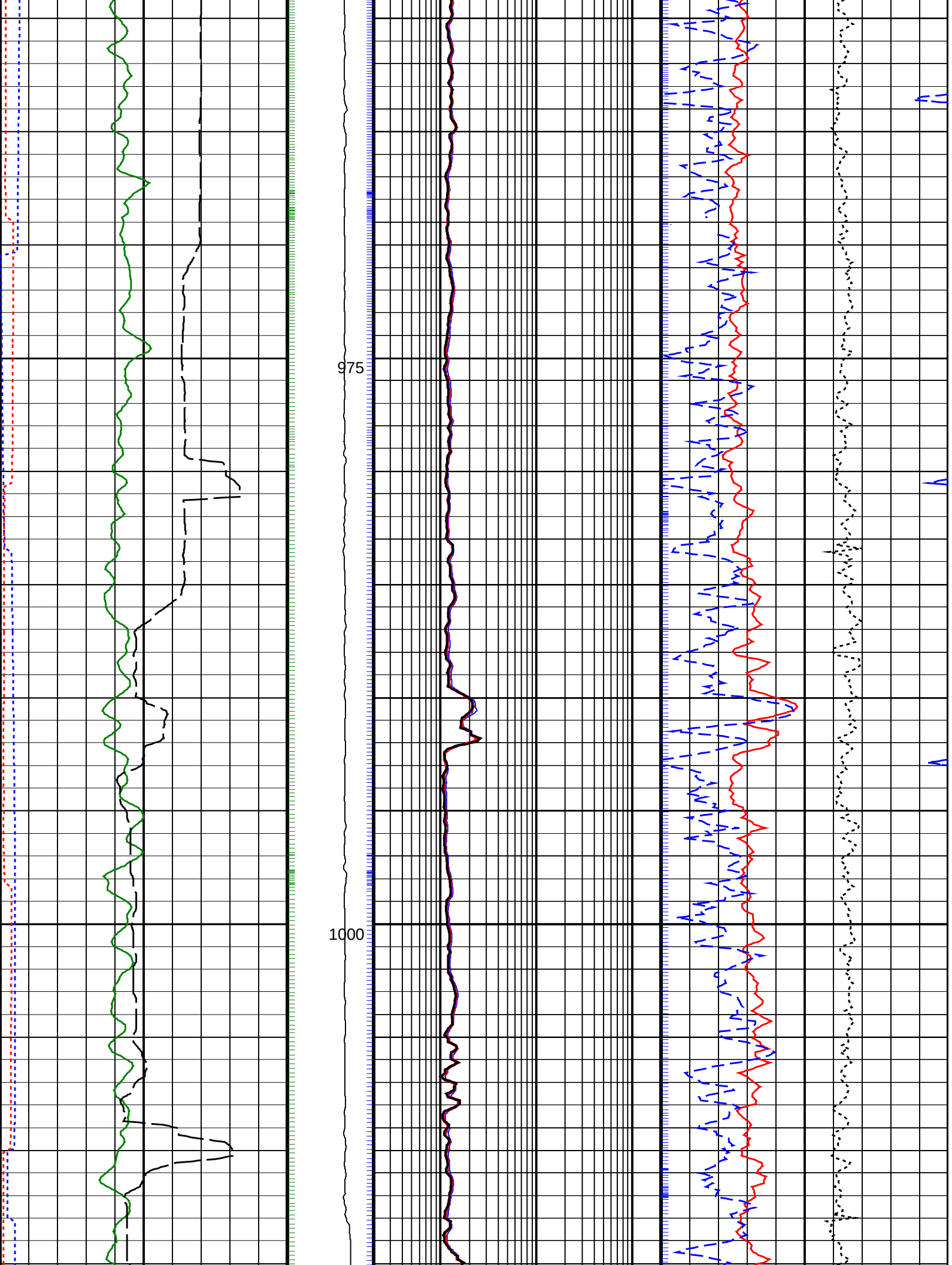
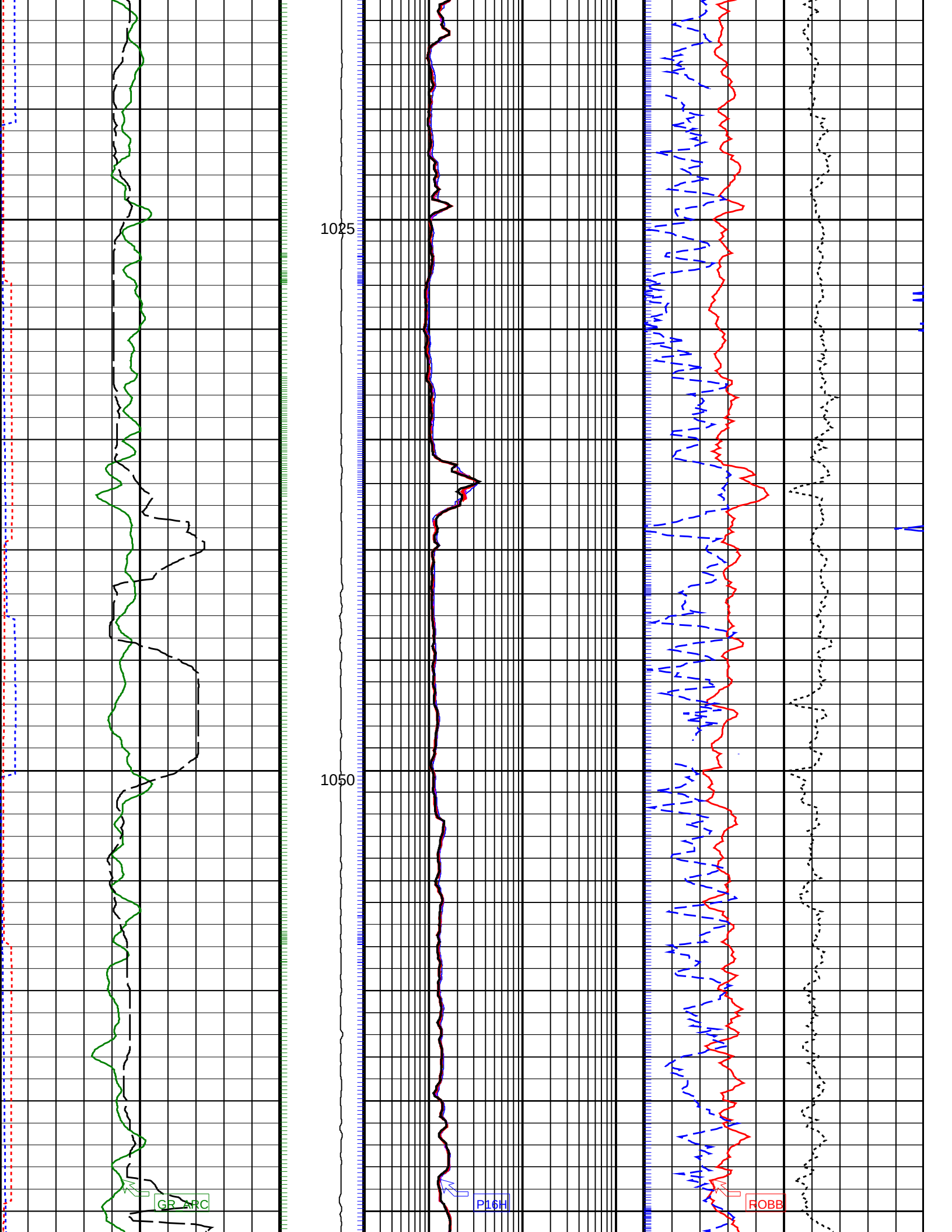
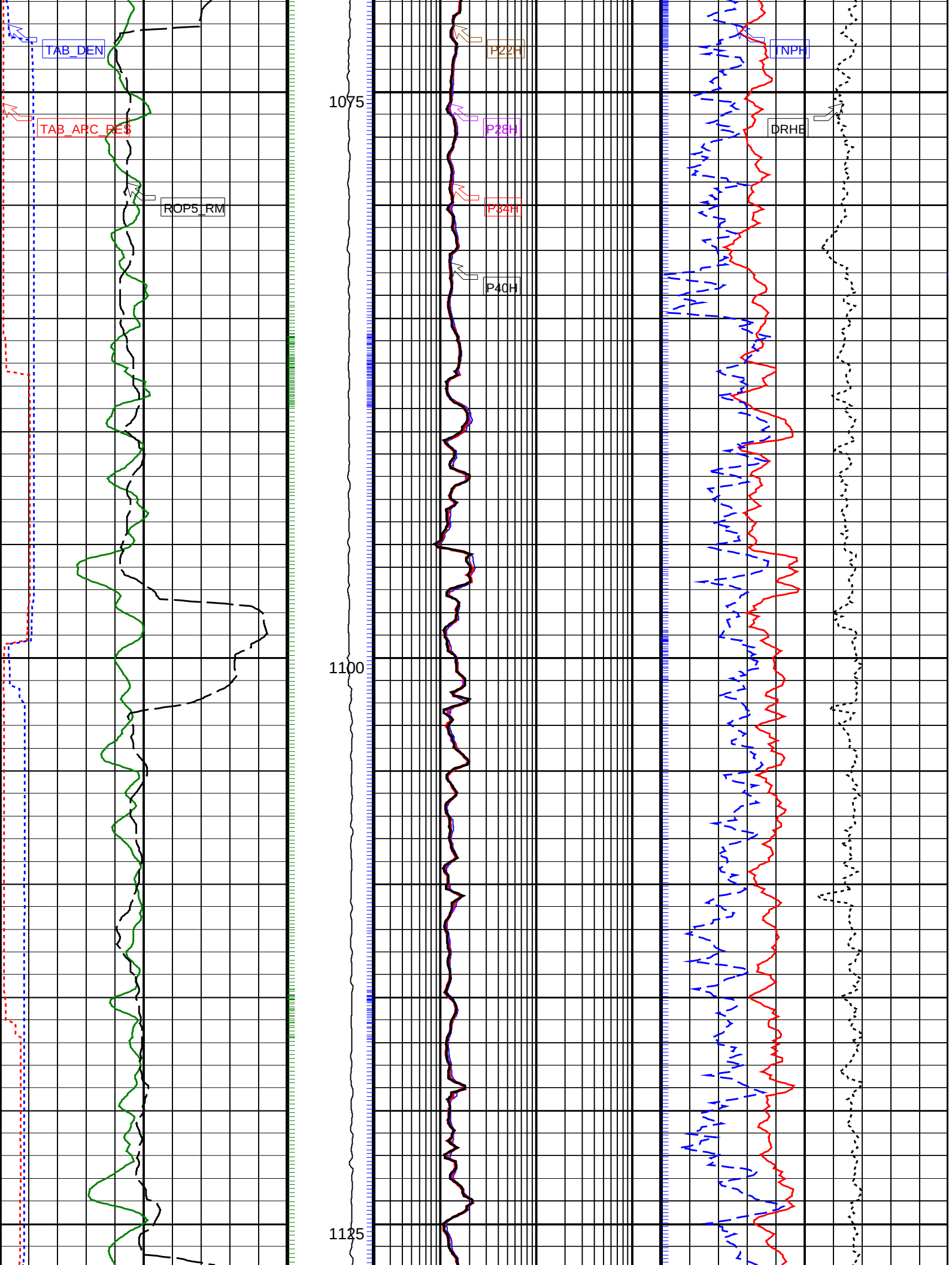
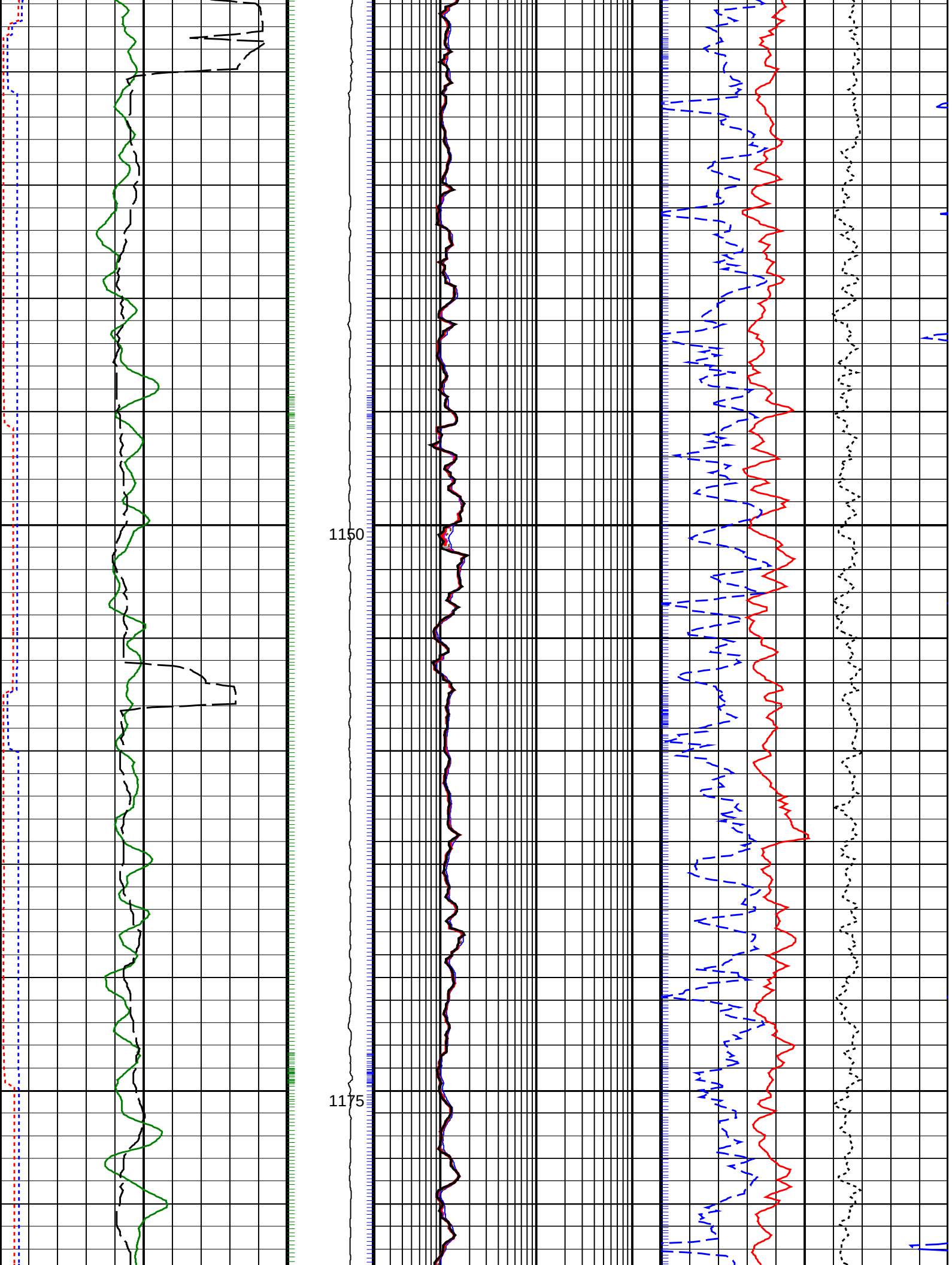
875
900

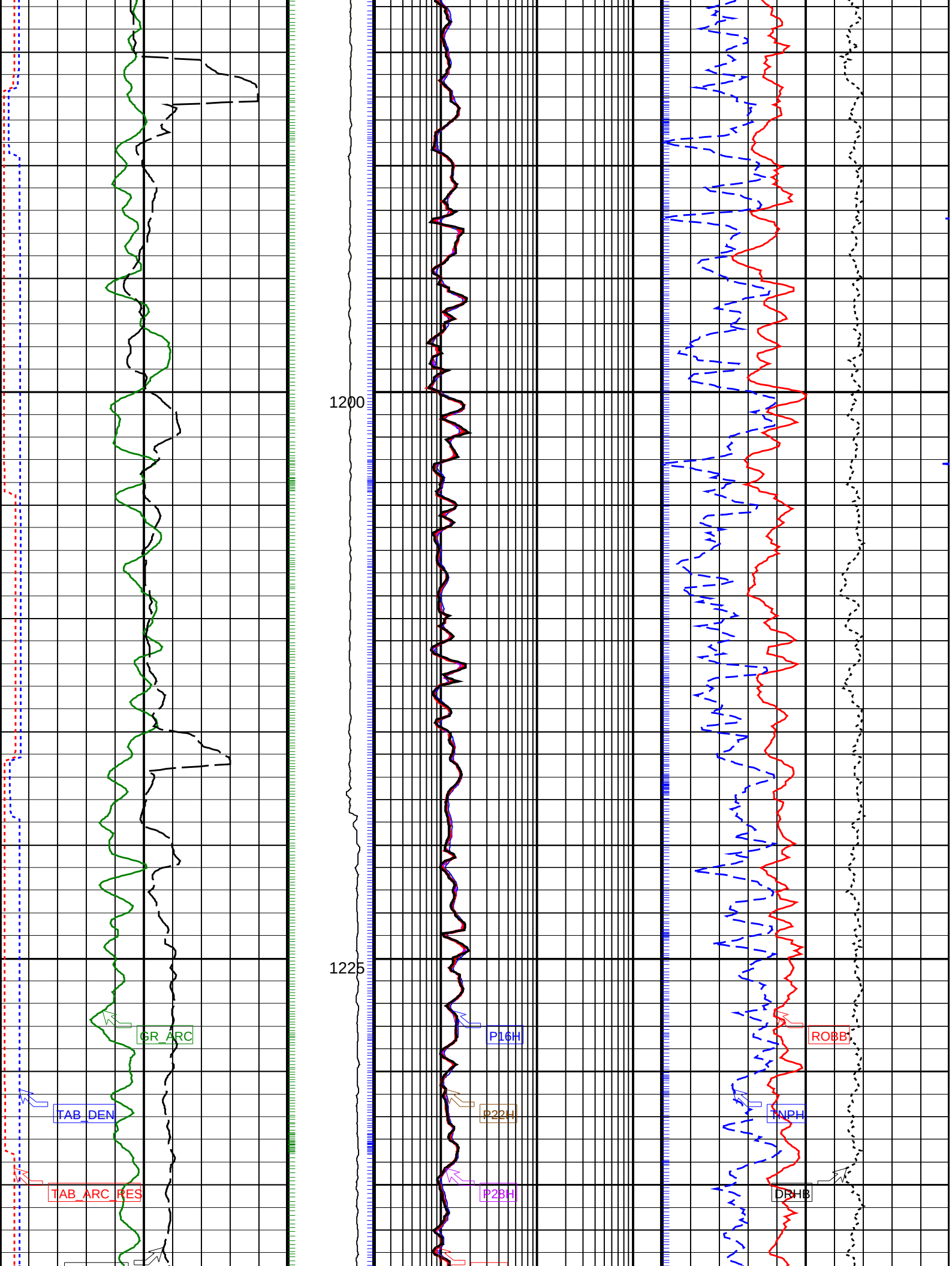

GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
925
950

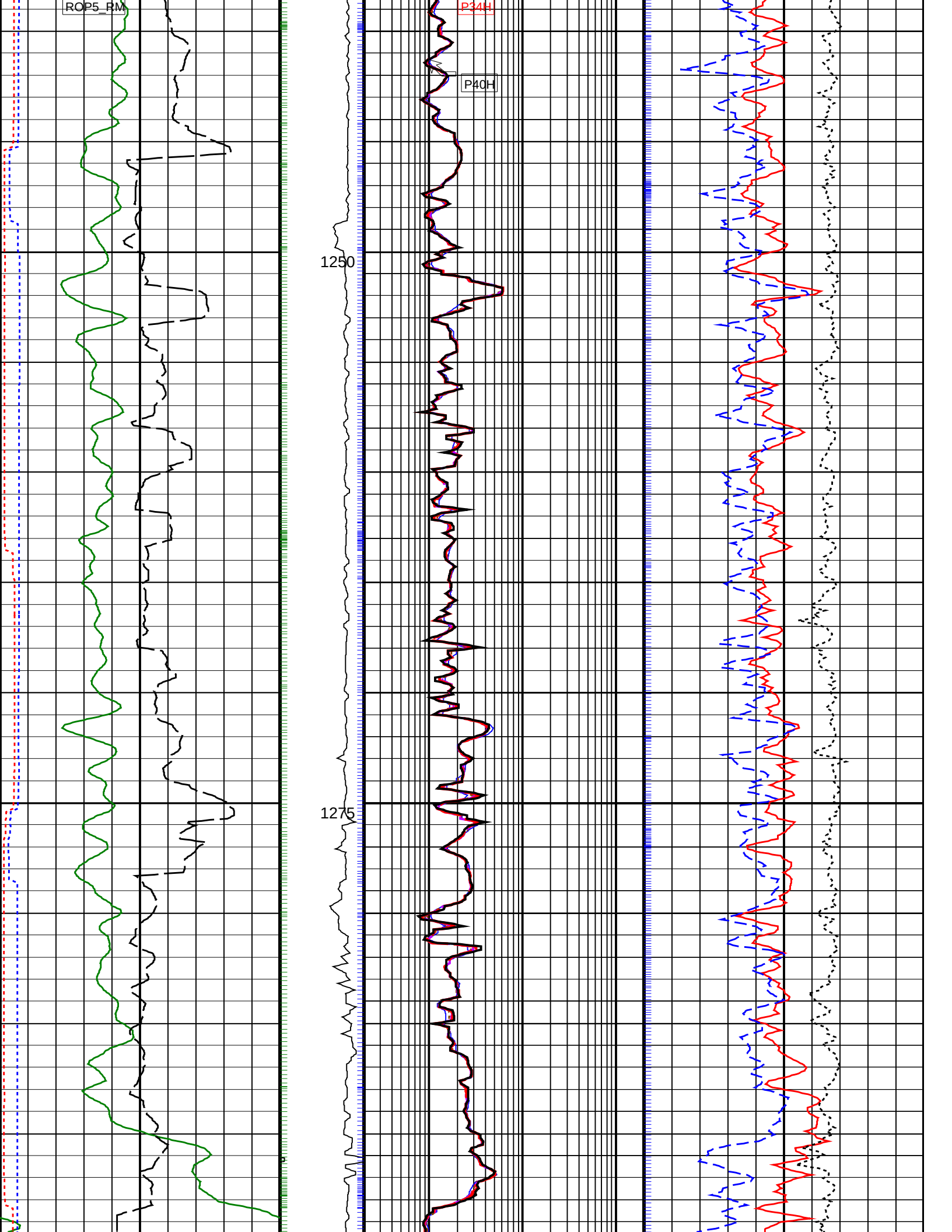

975
1000

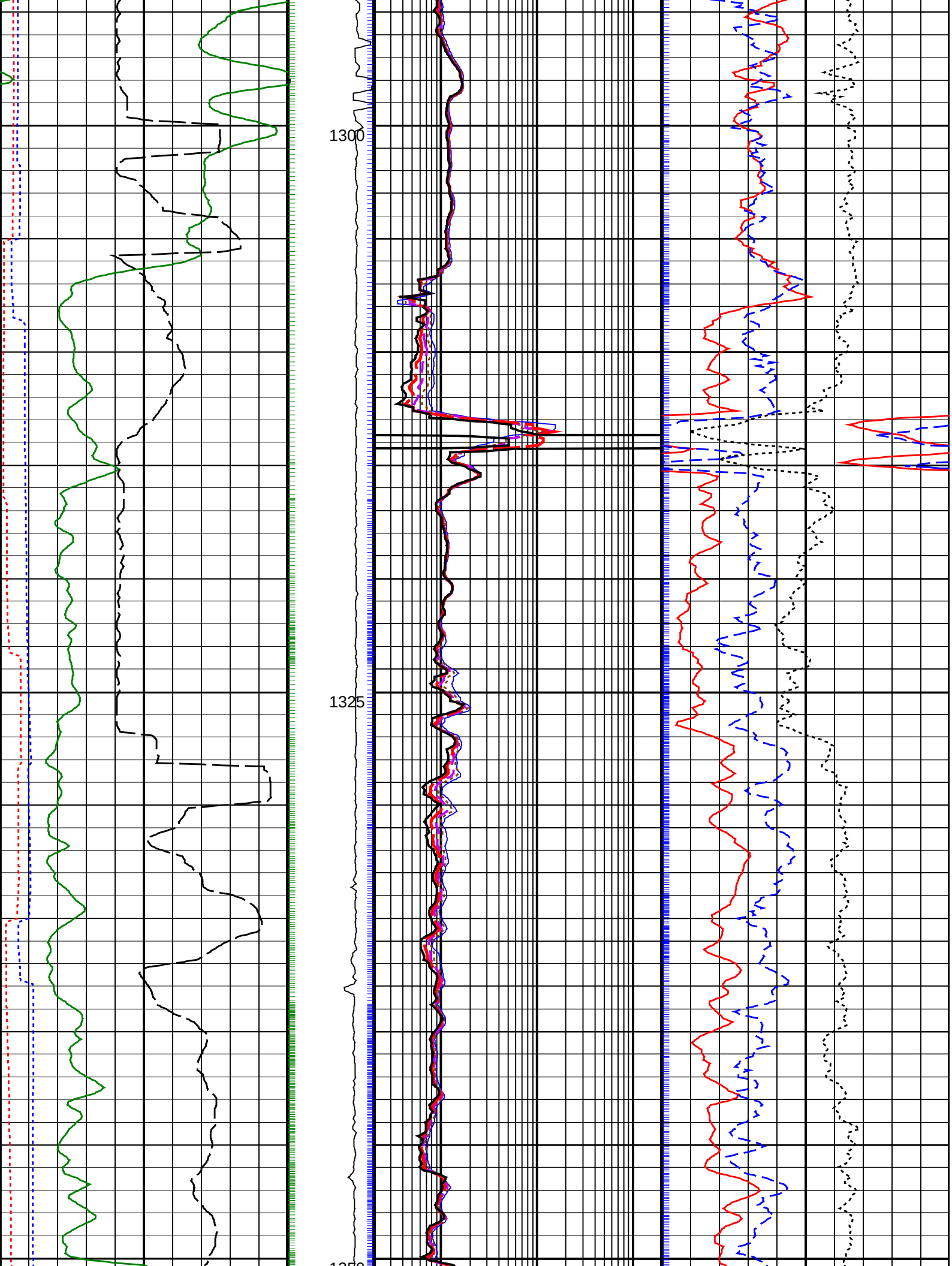

1025
1050
GR_ARC
P16H
ROBB


TAB_DEN
TAB_ARC_RES
ROP5_RM
P22H
P28H
P34H
P40H
TNPH
DRHE
1075
1100
1125


1150
1175


1200
1225
GR_ARC
TAB_DEN
TAB_ARC_RES
P16H
P22H
P28H
ROBB
TNPH
DRHB


ROP5_RM
P34H
P40H
1250
1275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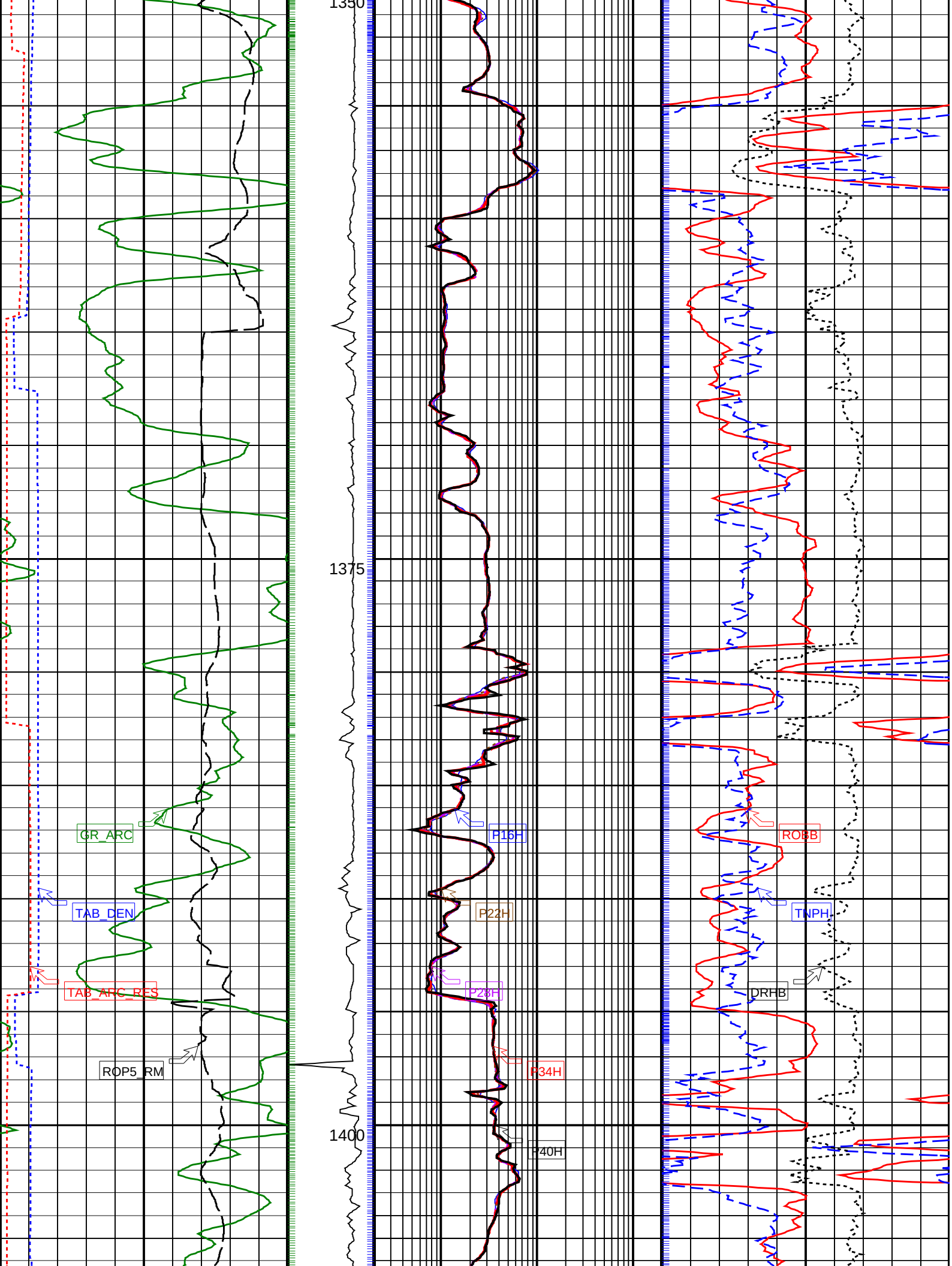
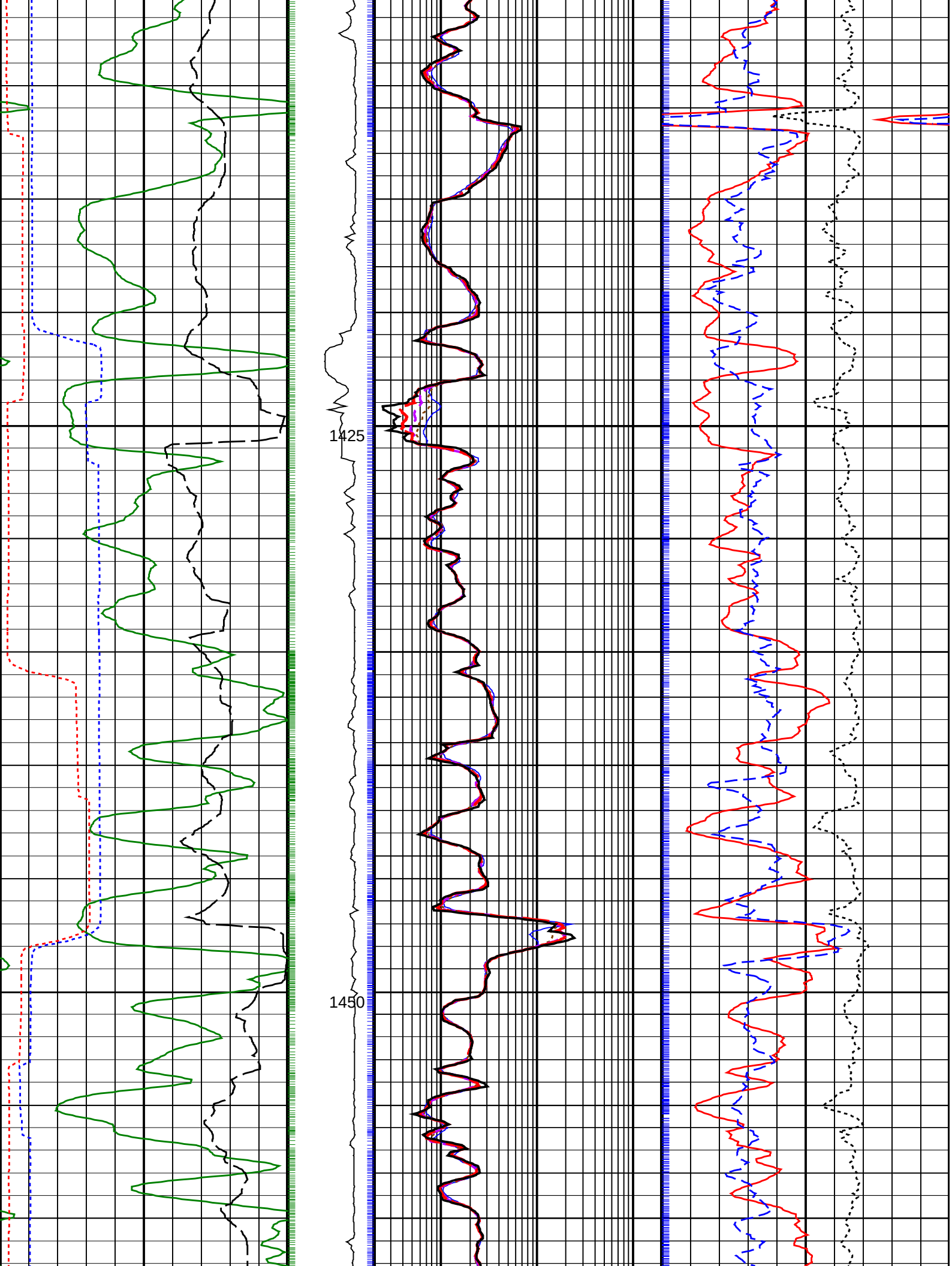
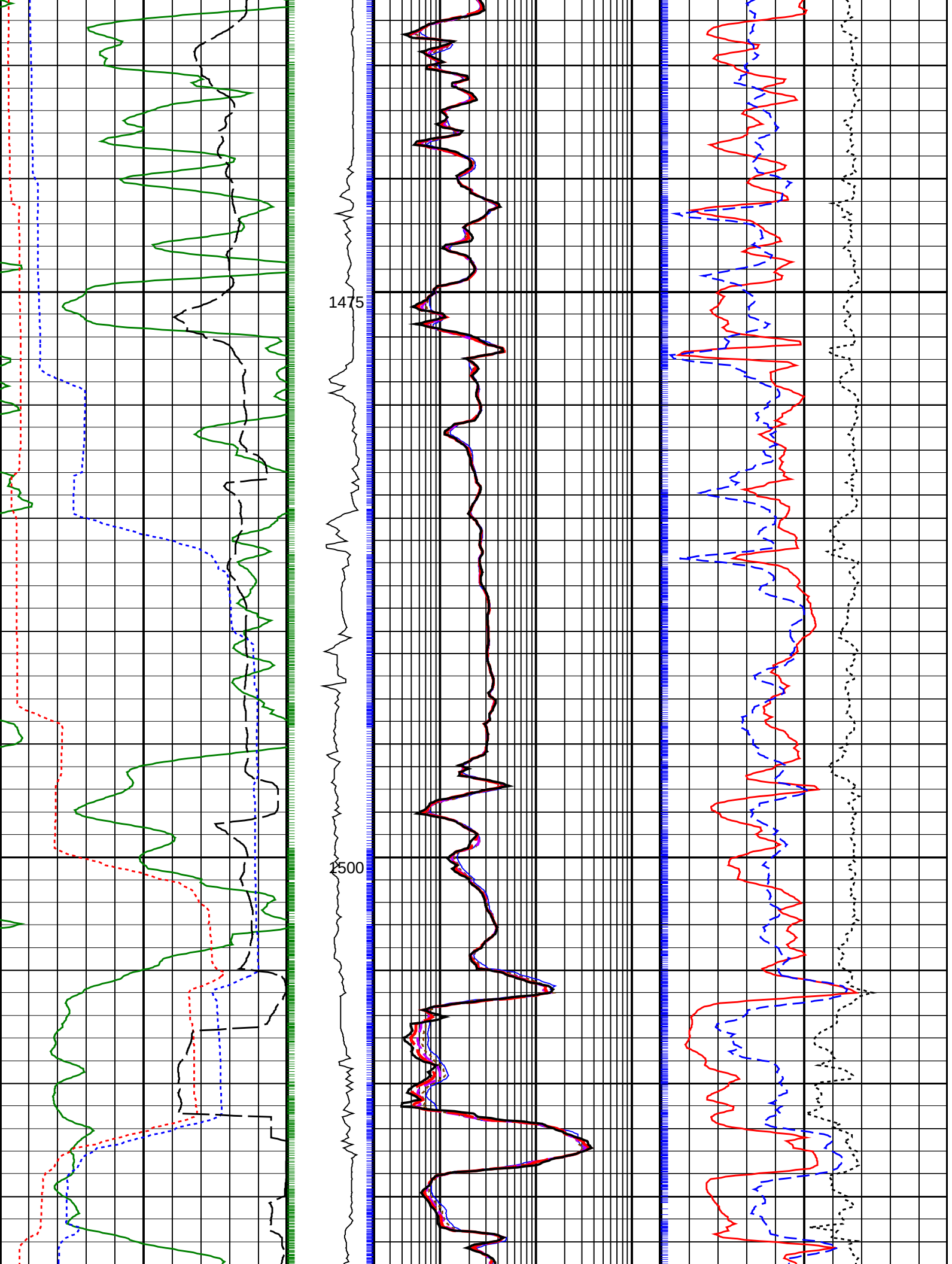
1325


1350
1375
1400
GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB


1425
1450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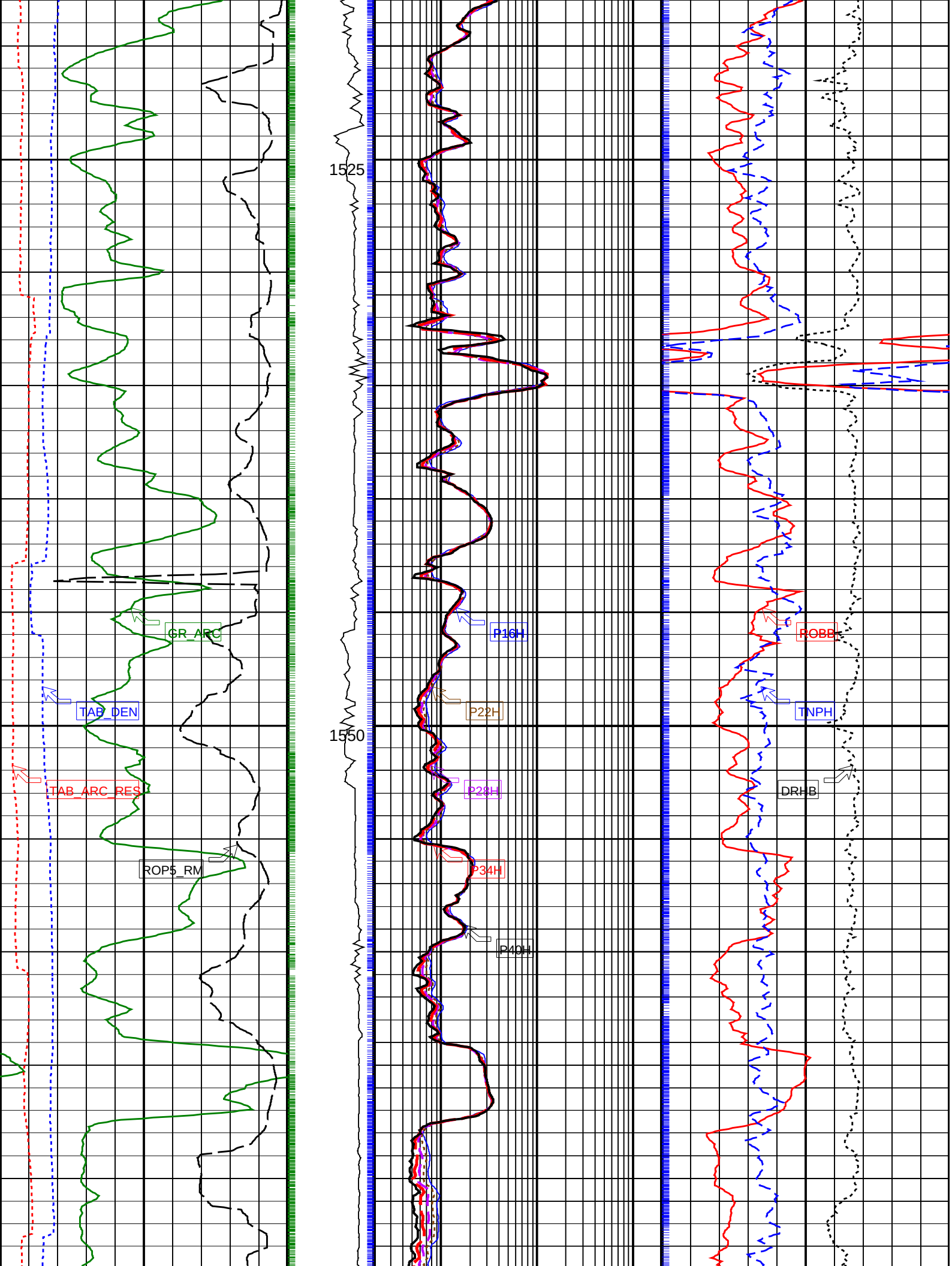
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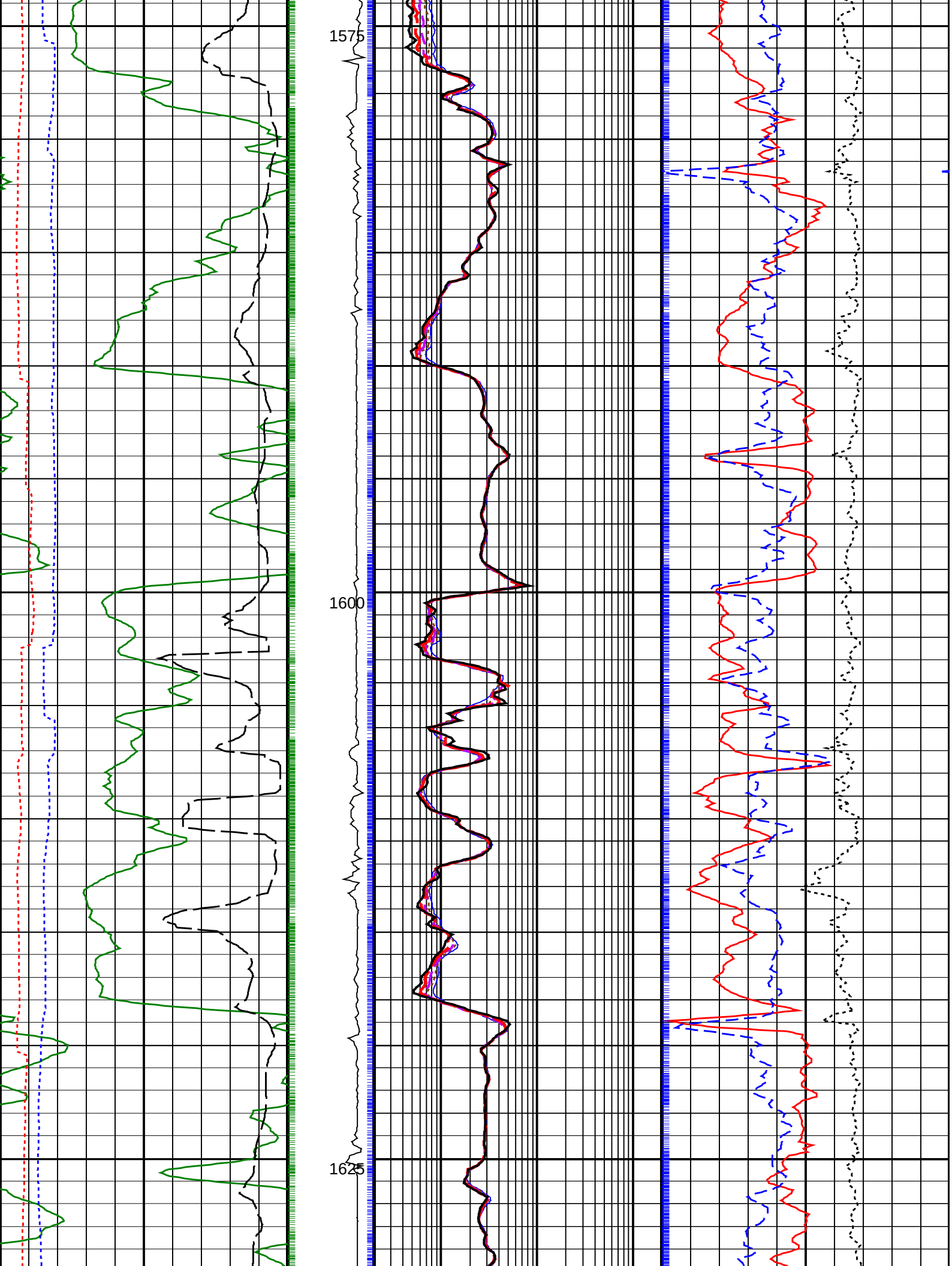
1550
GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB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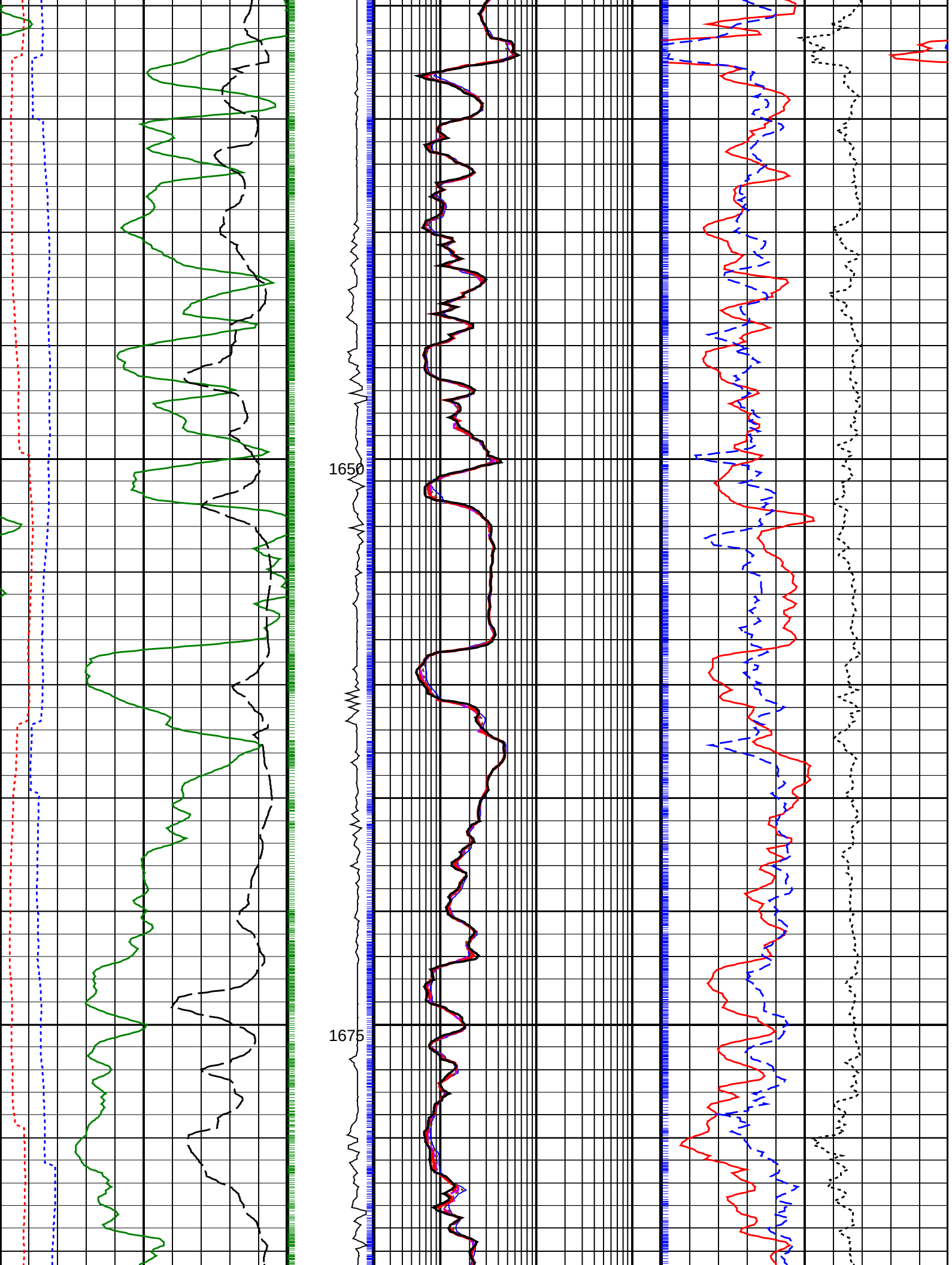
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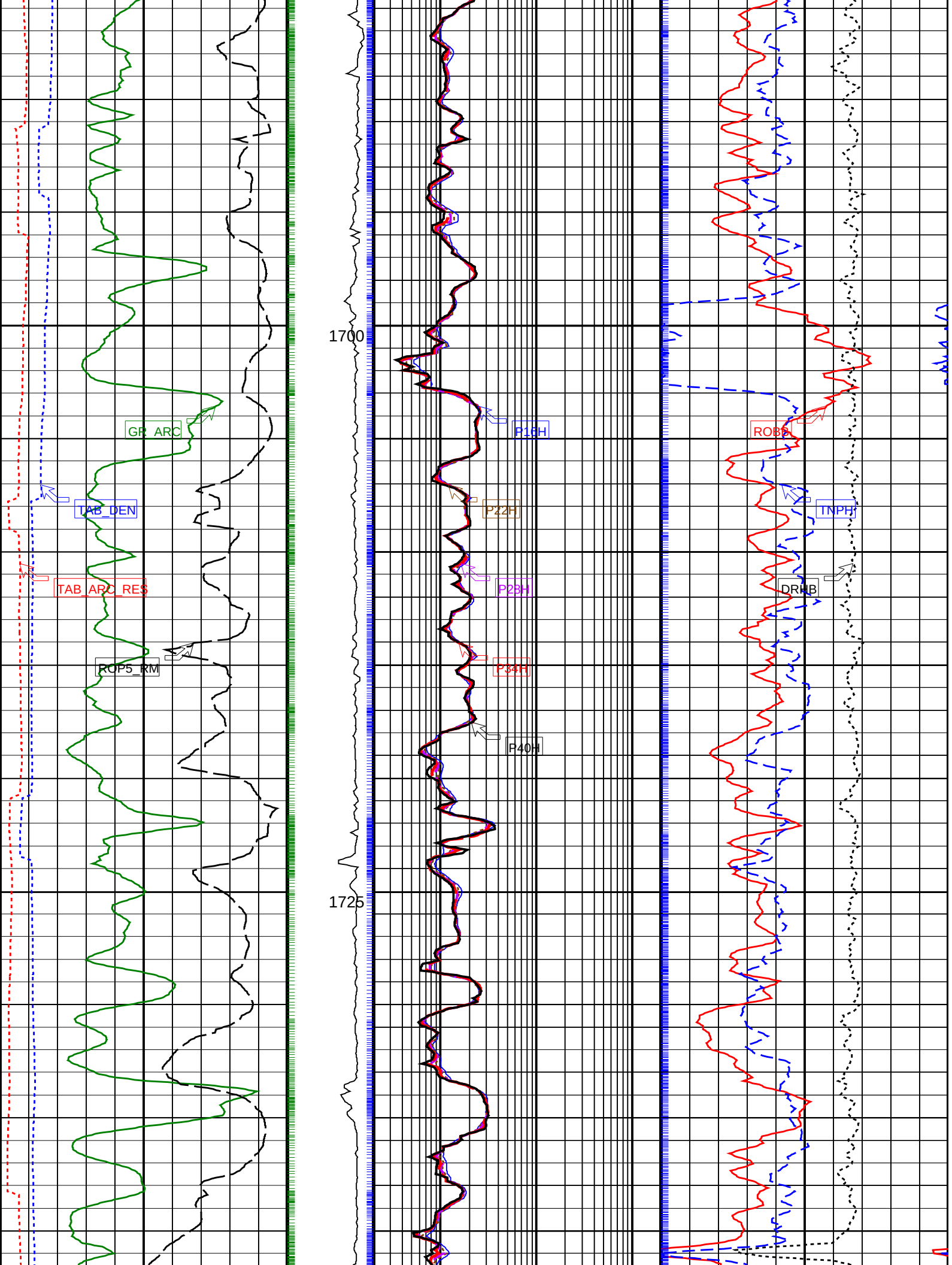
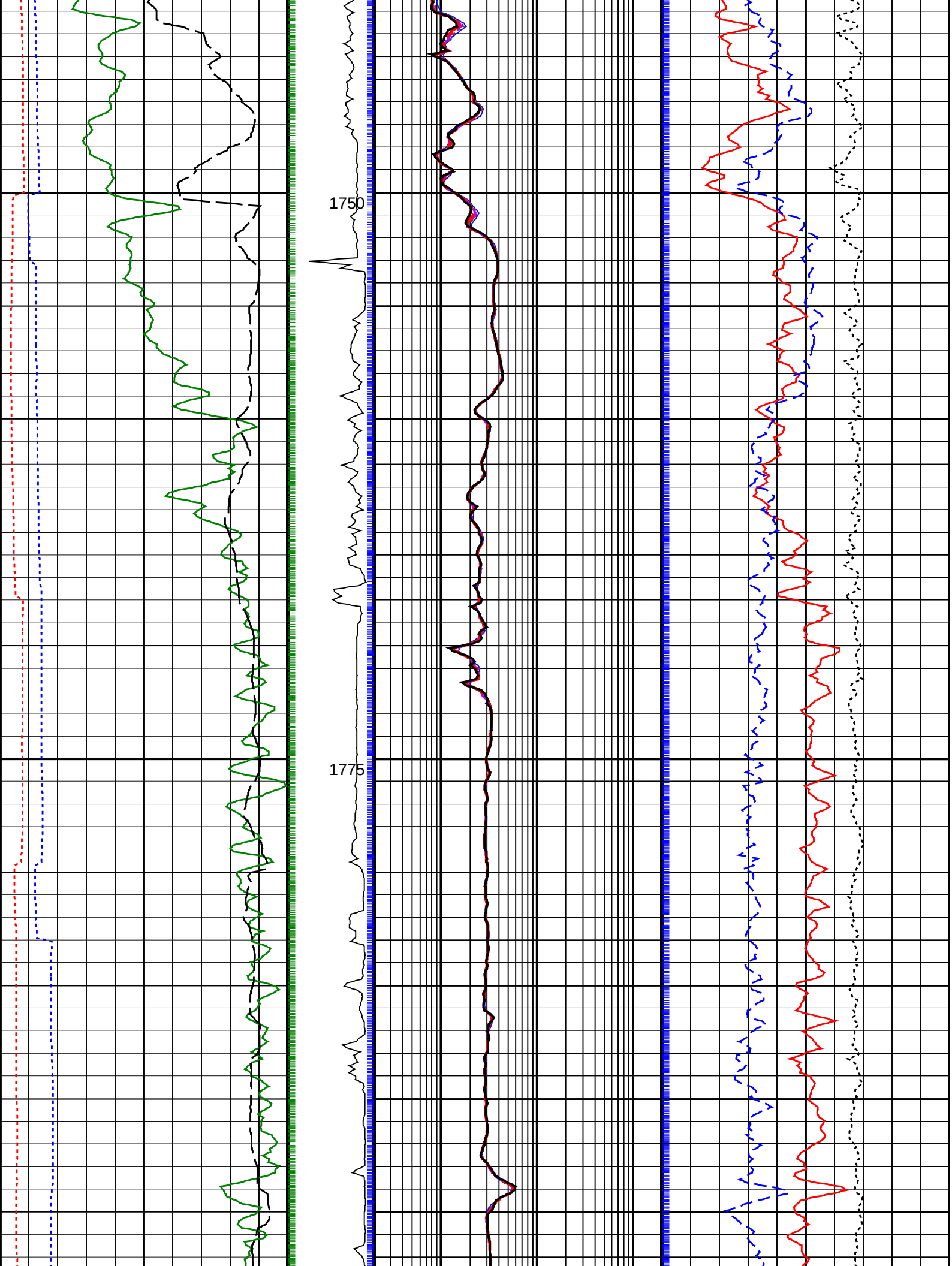
1675


1700
1725
GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB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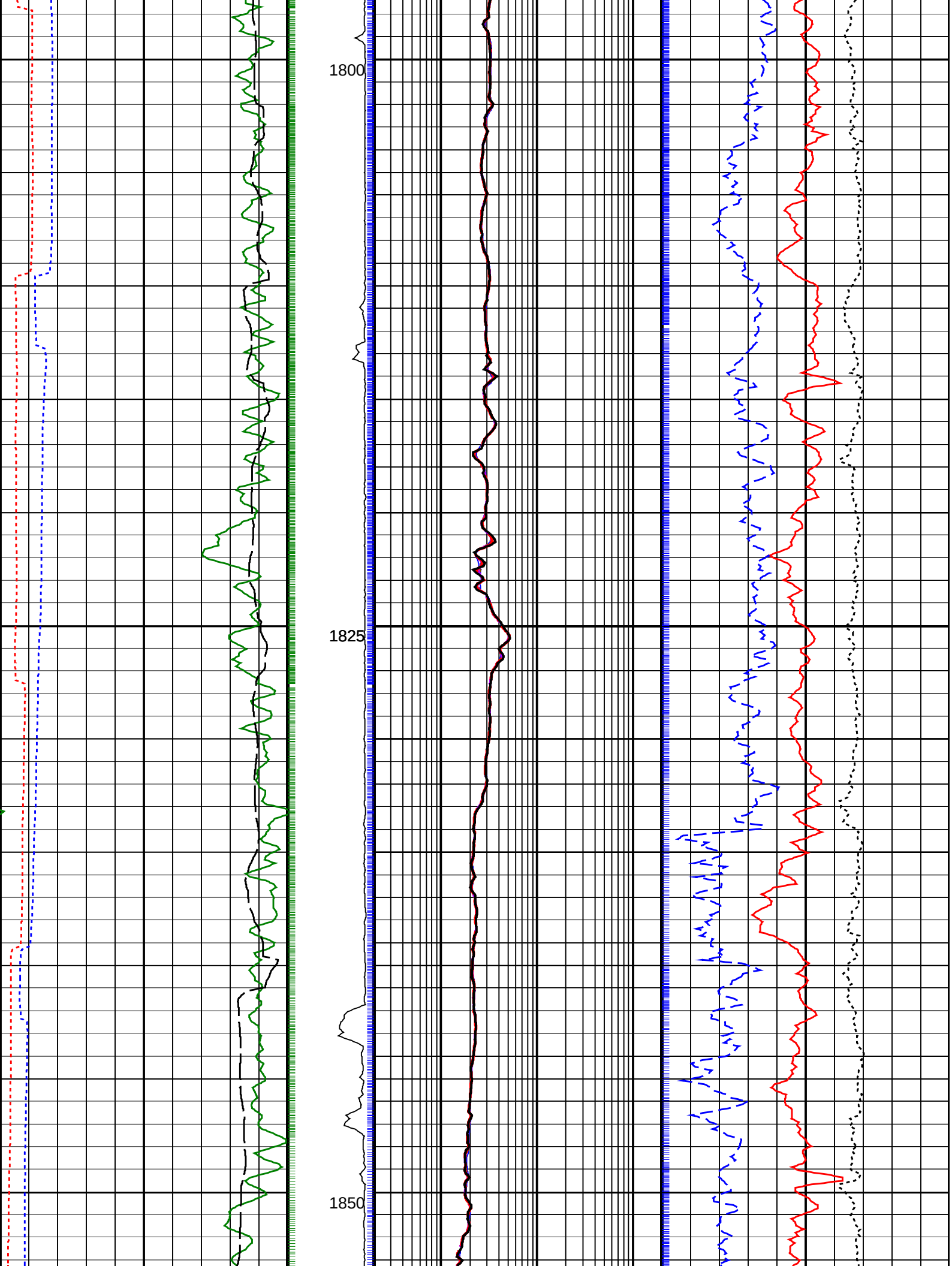
1775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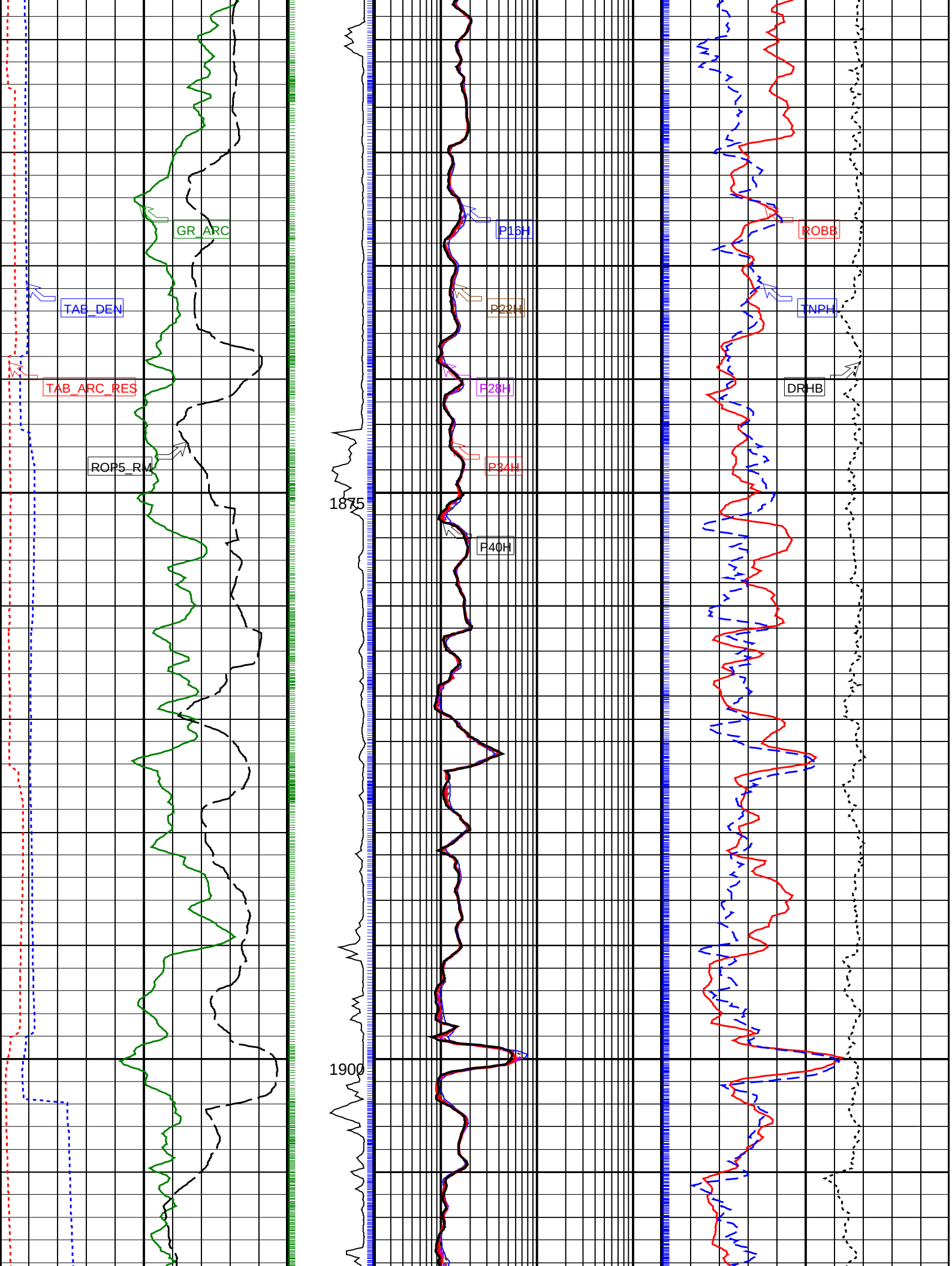
1850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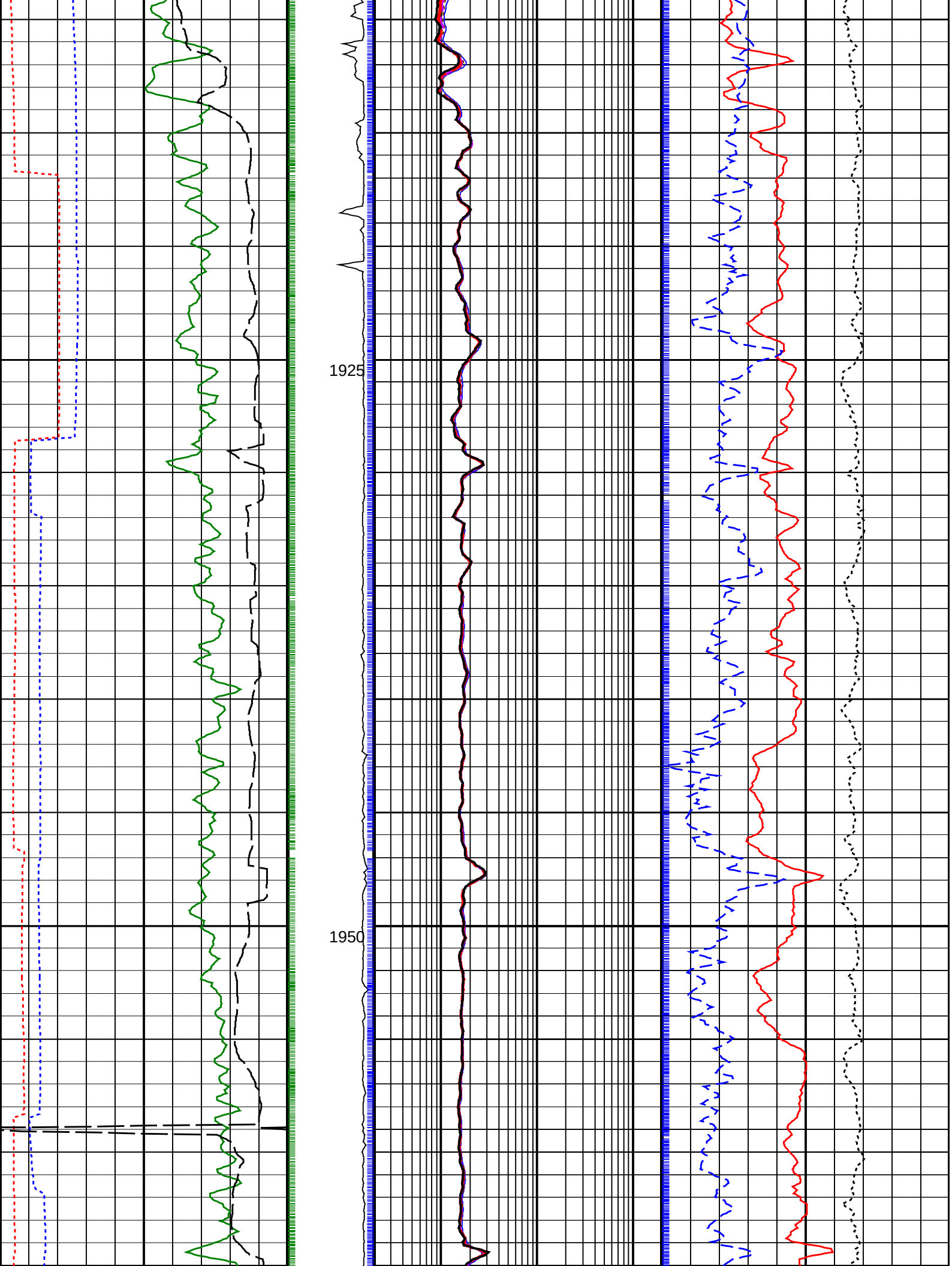
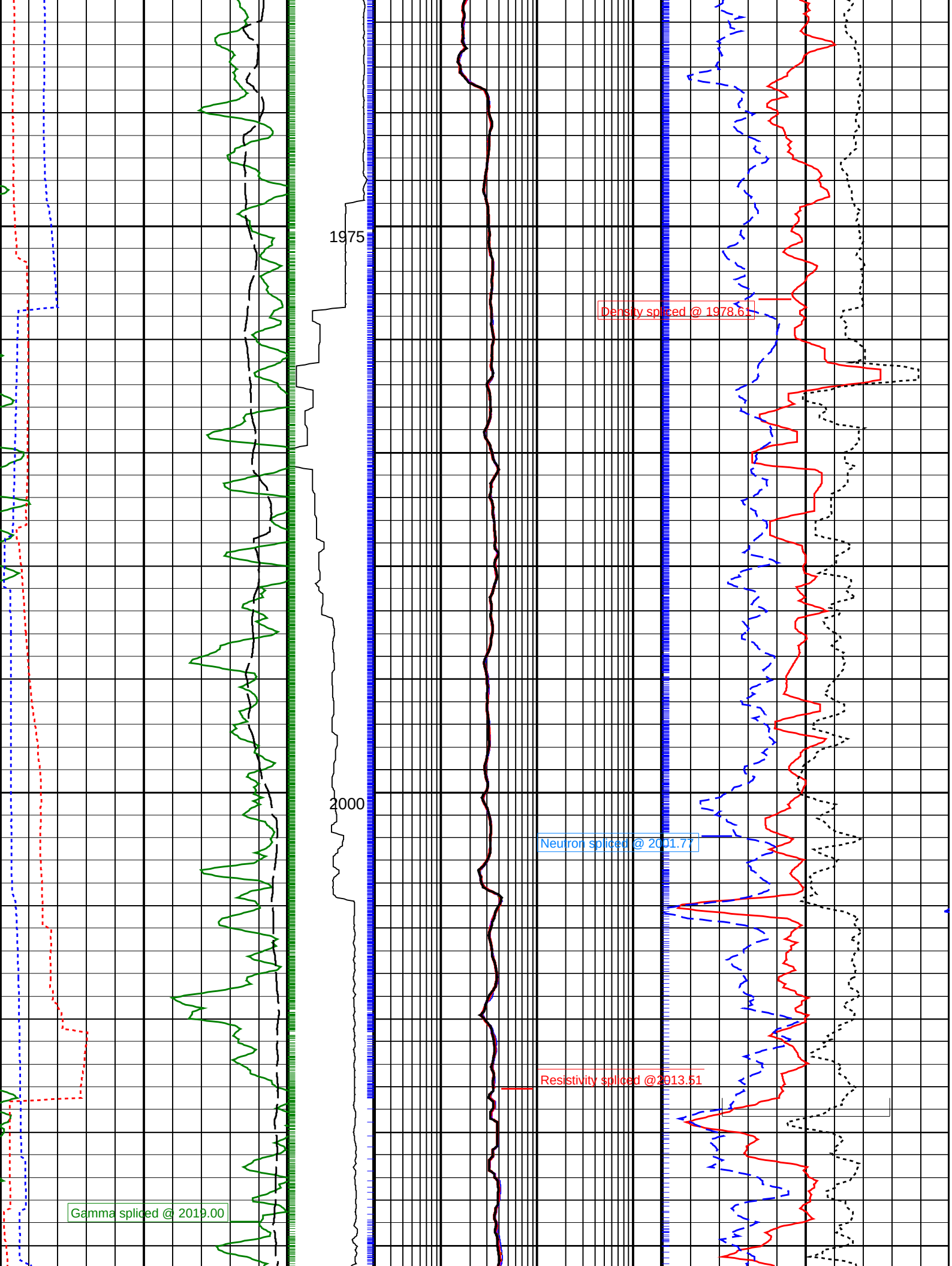
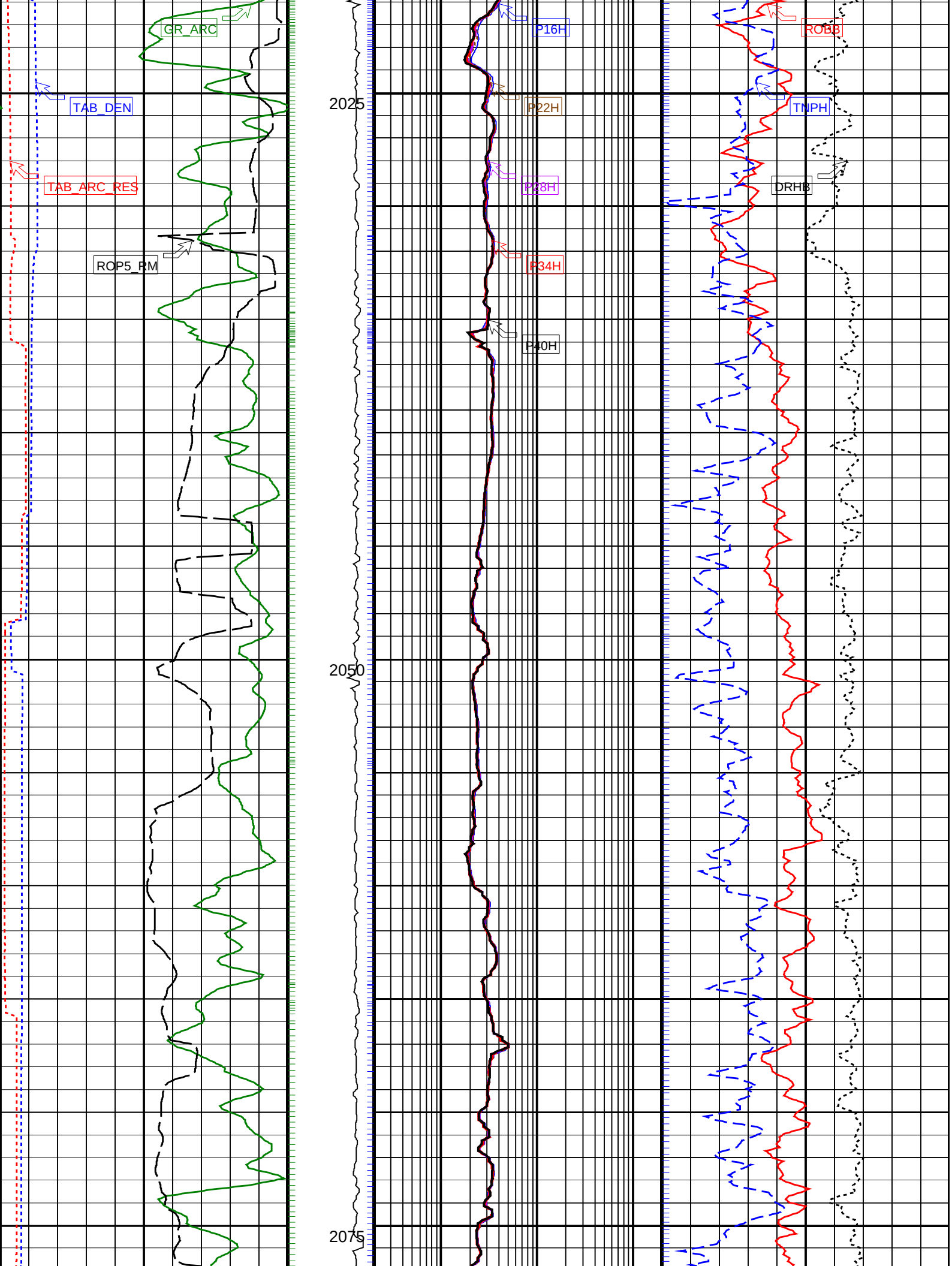
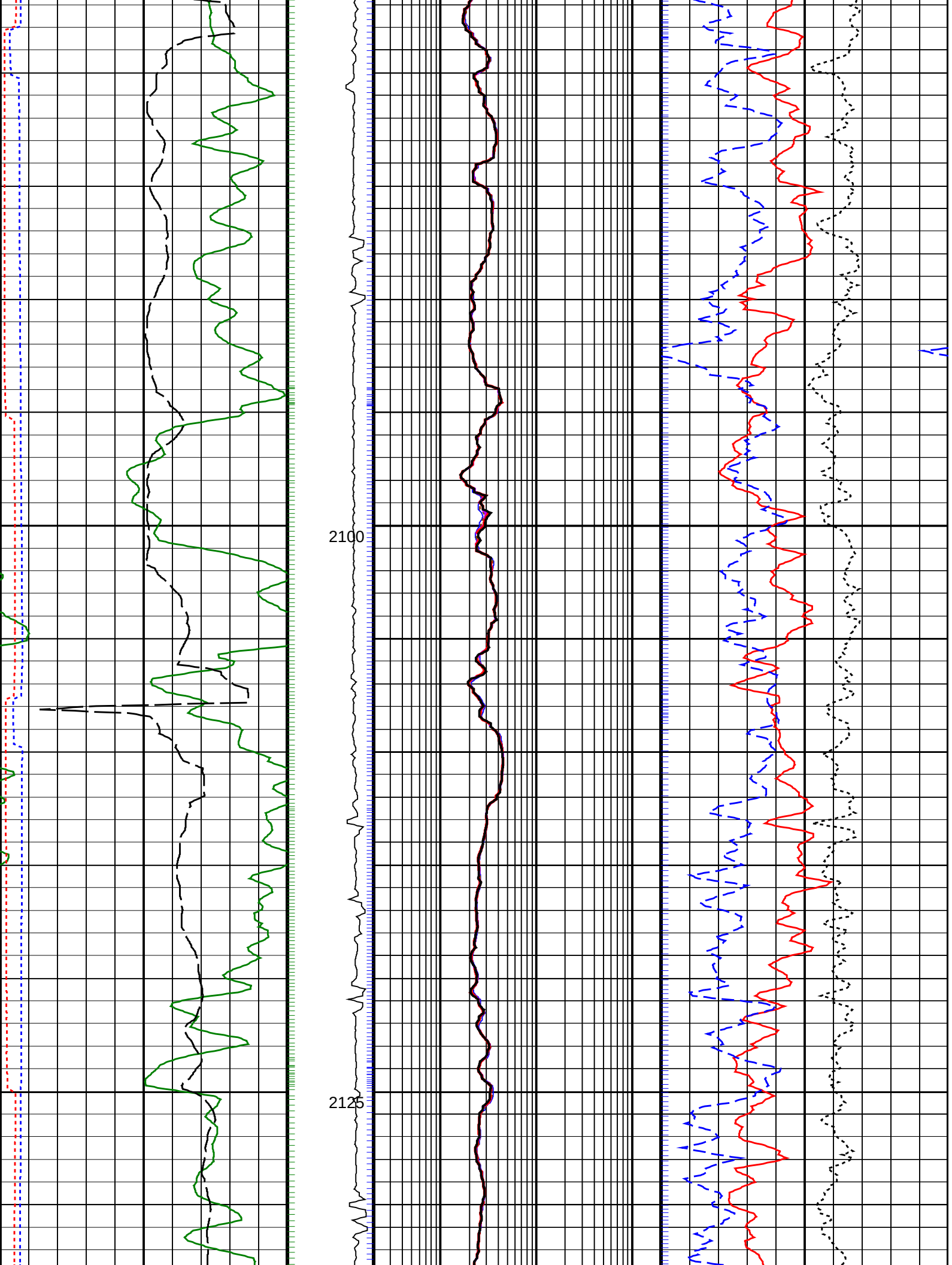
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
1875
1900
ROBB
TNPH
DRHB


1925
1950


1975
2000
Density spliced @ 1978.61
Neutron spliced @ 2001.77
Resistivity spliced @2013.51
Gamma spliced @ 2019.00


GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
2025
2050
2075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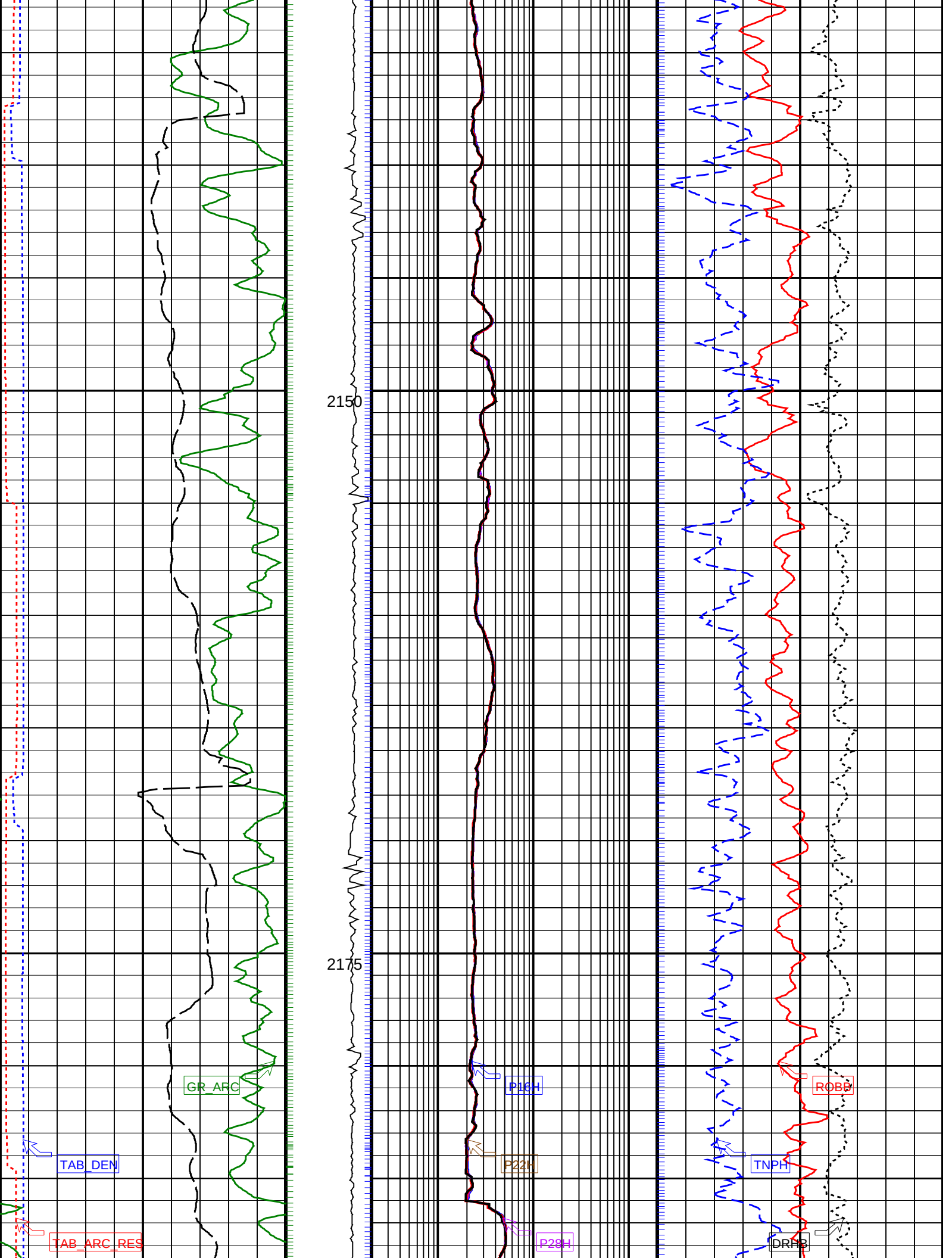
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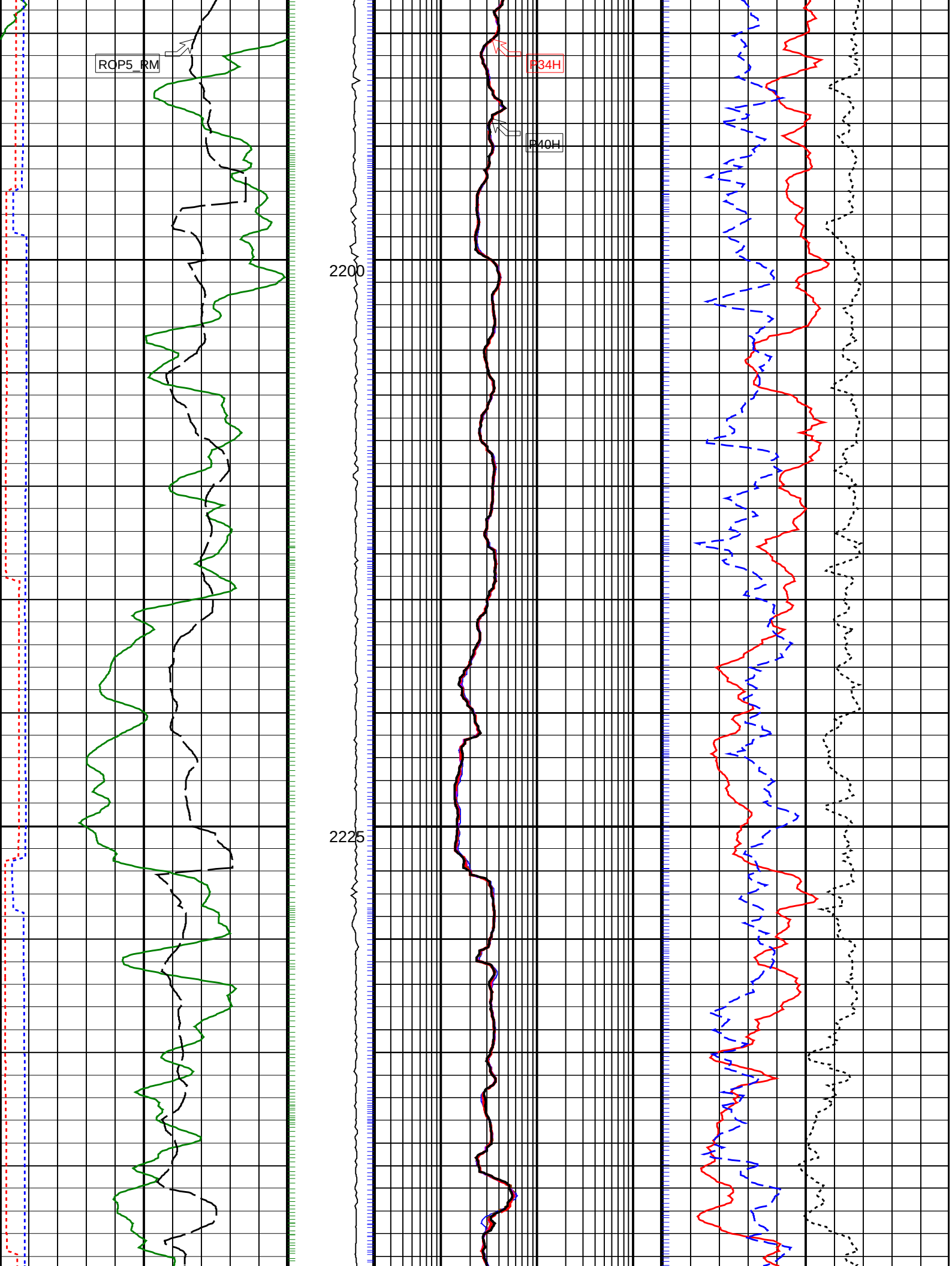
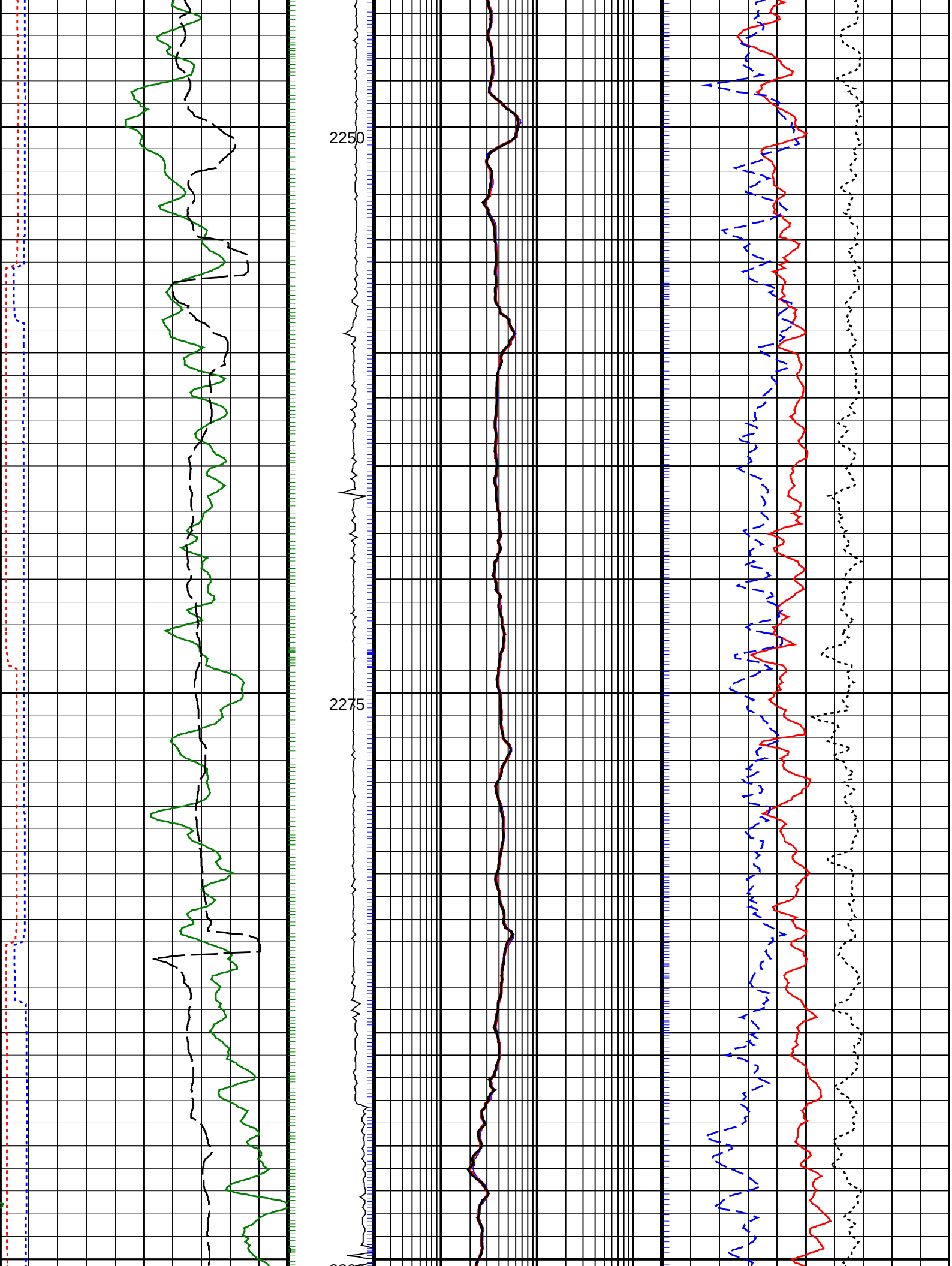
TAB_ARC_RES
P16H
P22H
P28H
ROBB
TNPH
DRHB


ROP5_RM
P34H
P40H
2200
2225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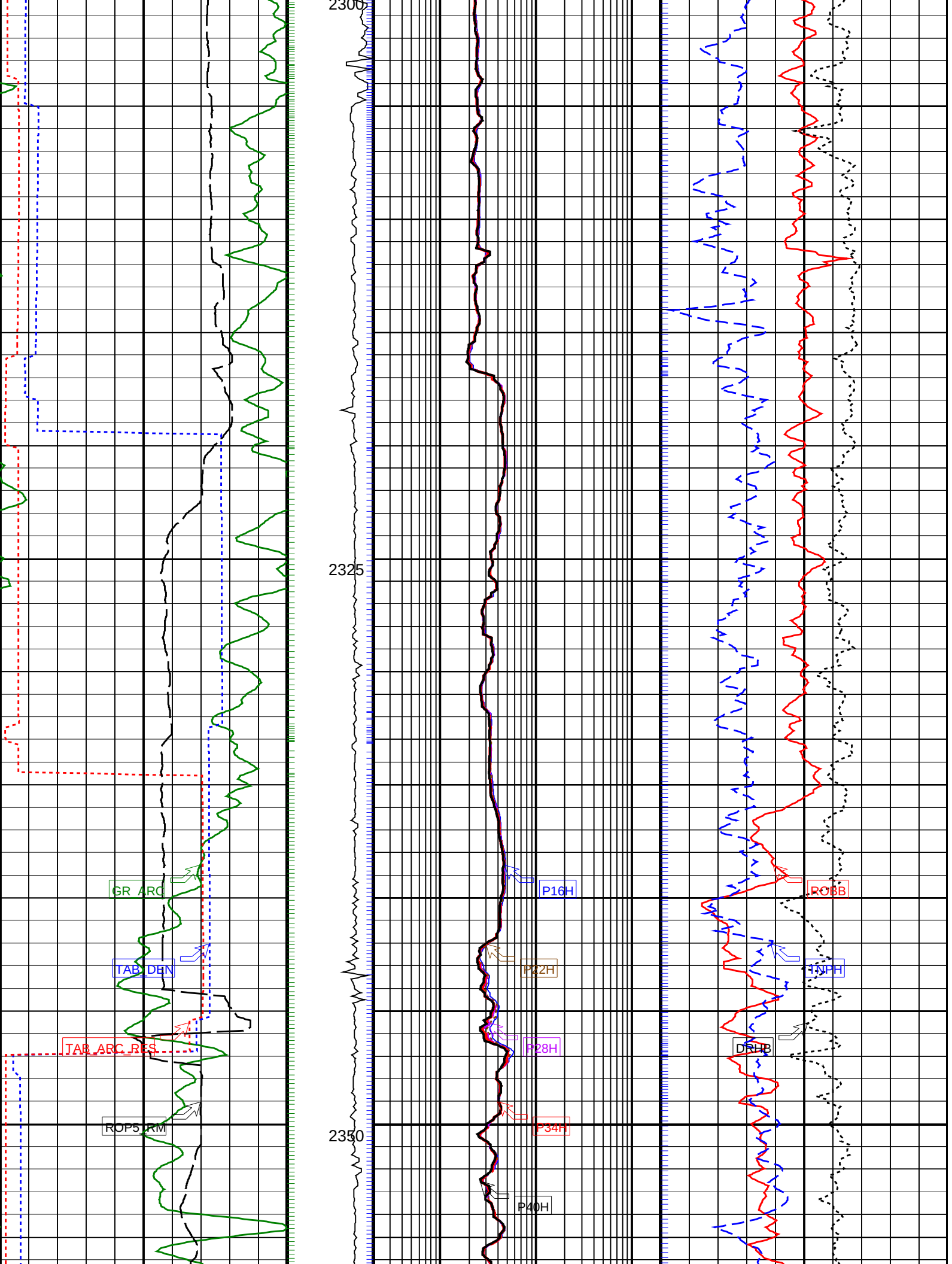
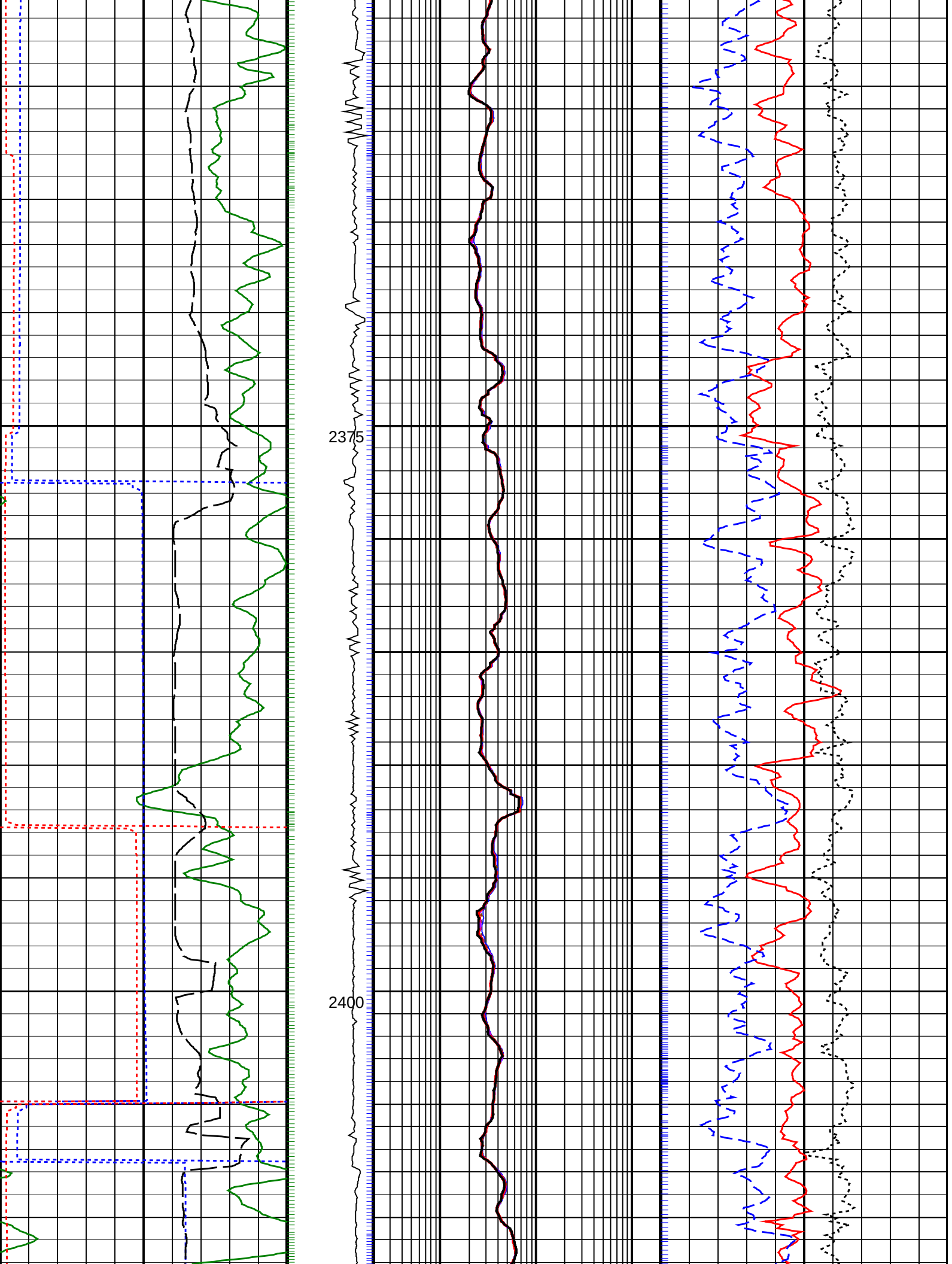
2275


2300
2325
2350
GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
ROPB
NPH
DRHB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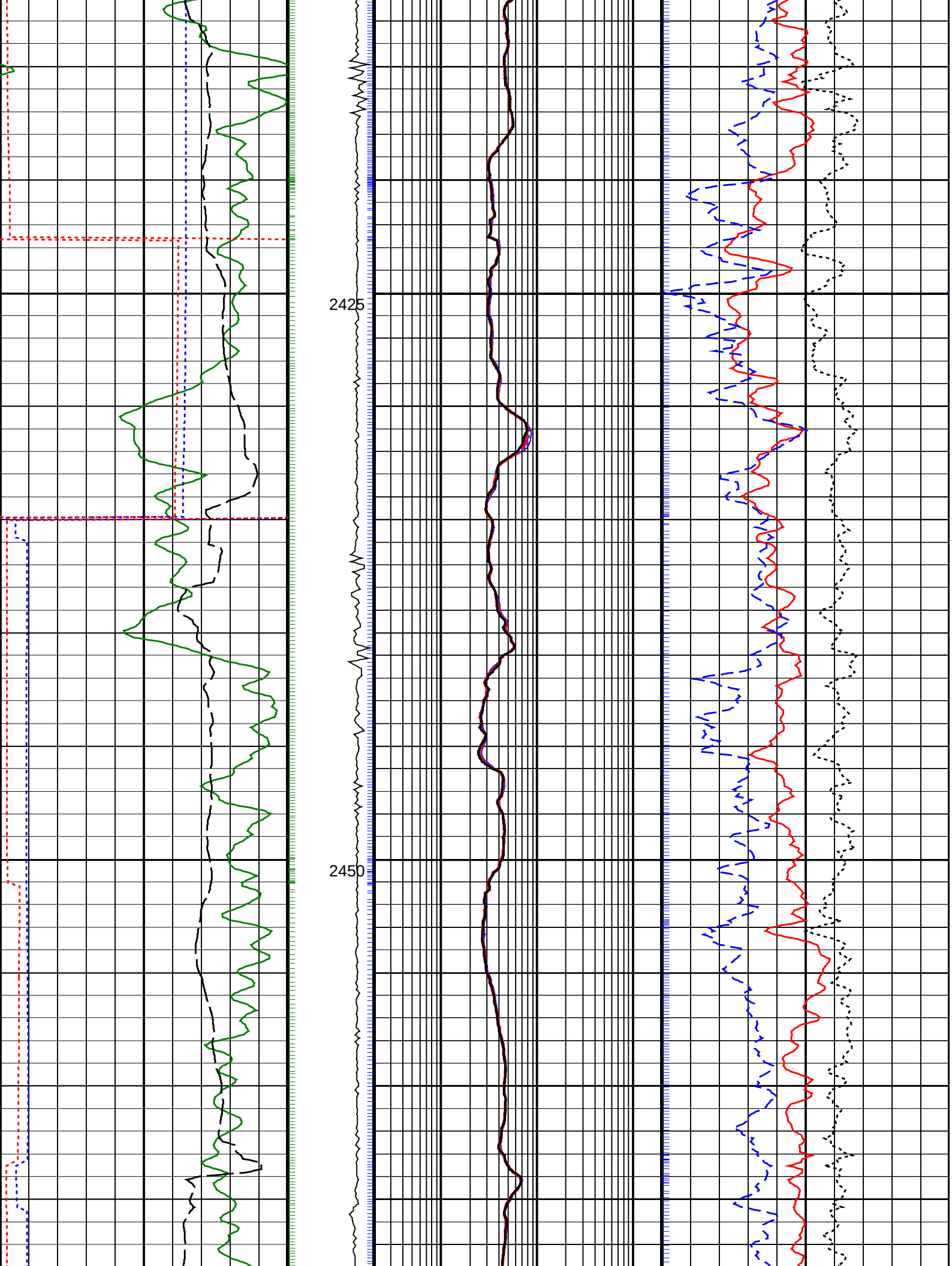
2400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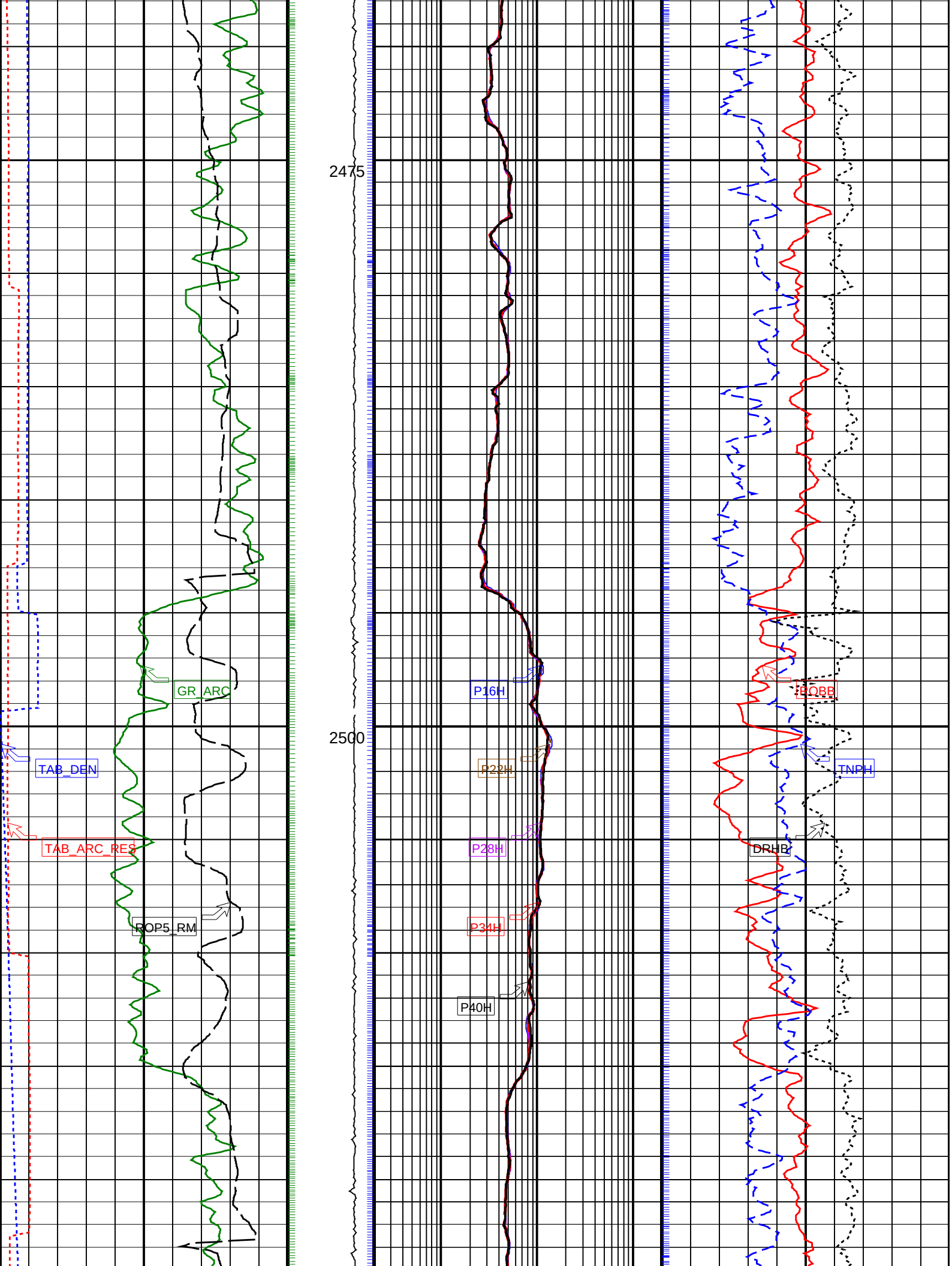
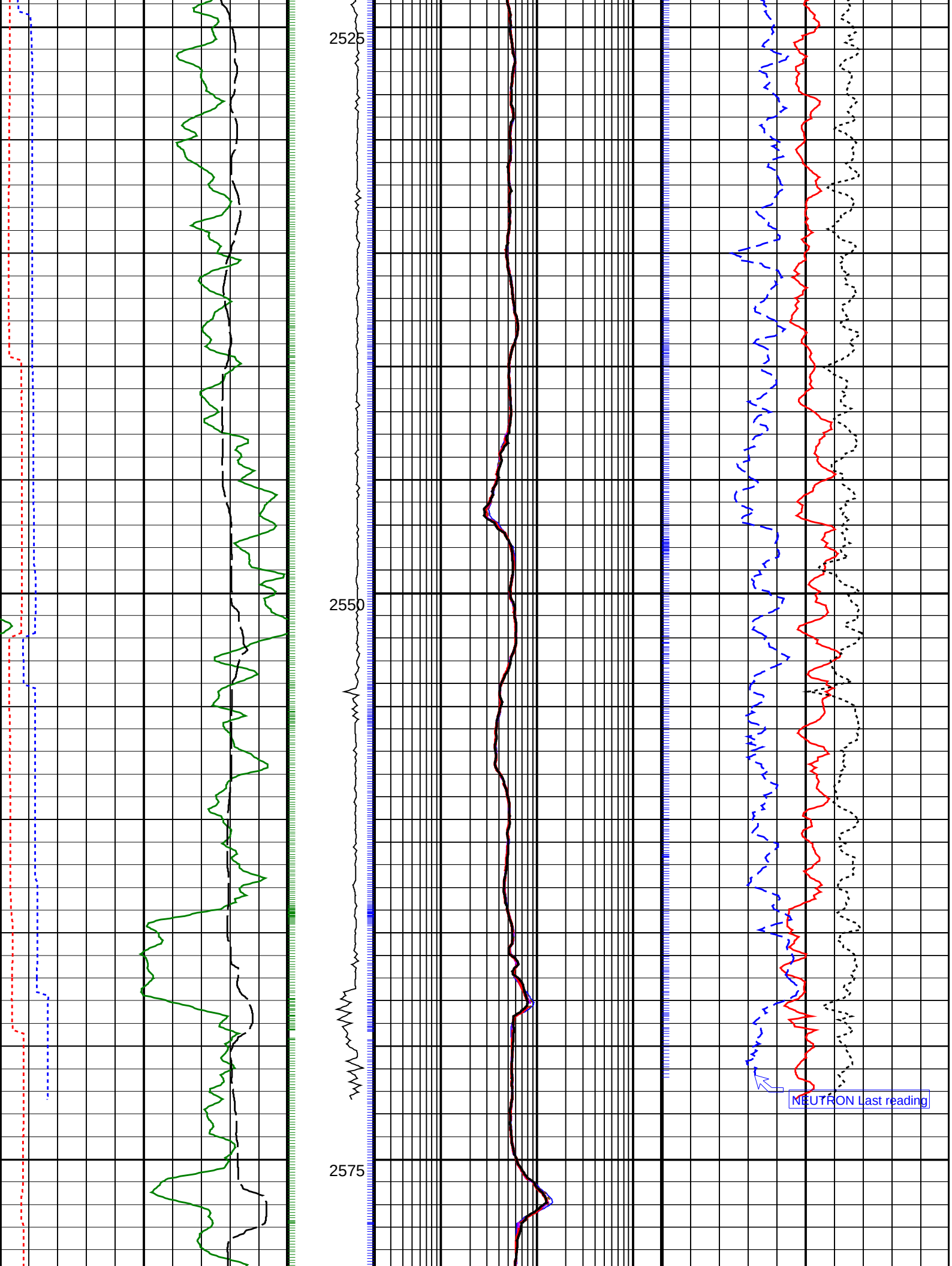
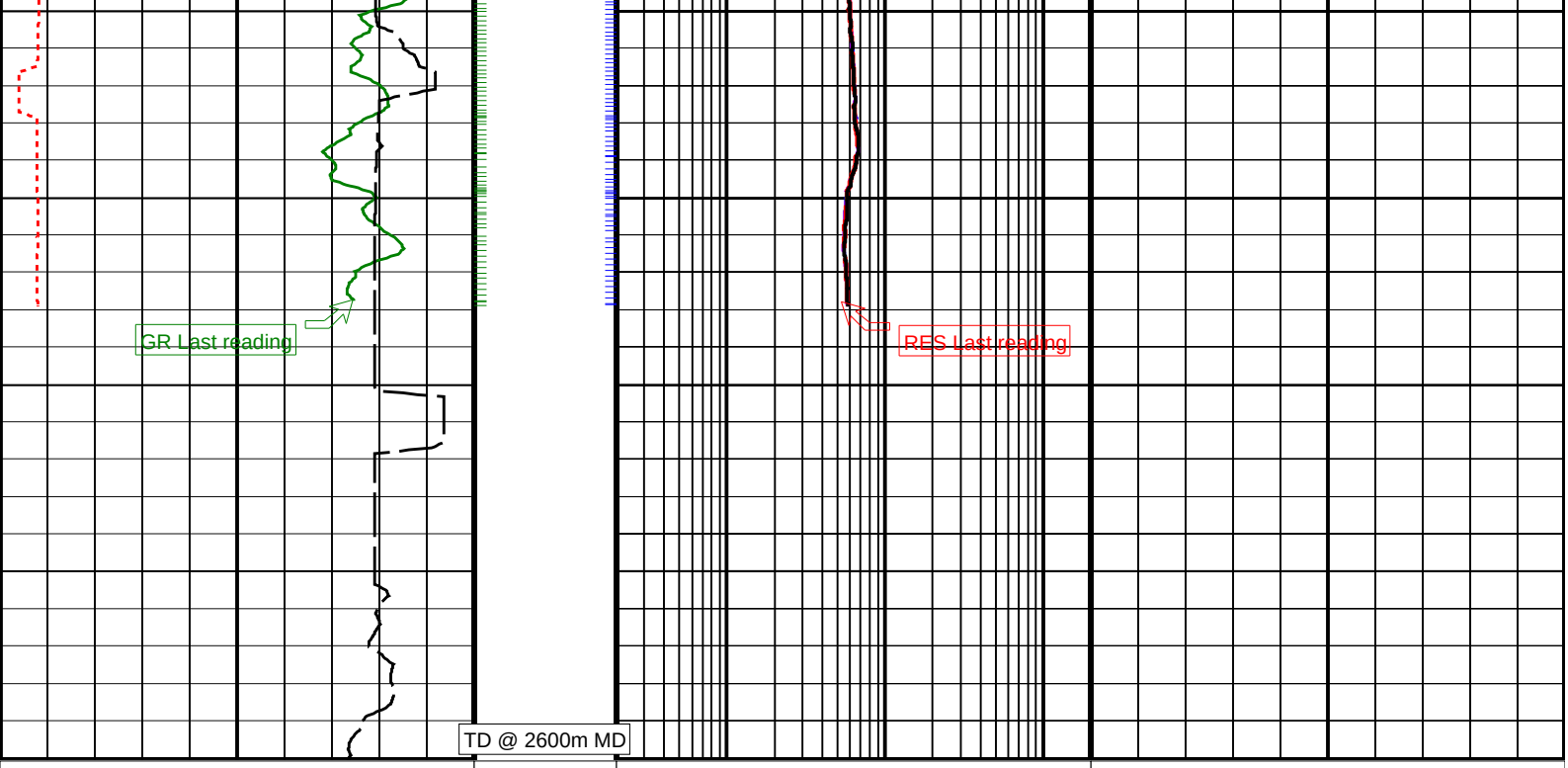
2450


2475
2500
GR_ARC
TAB_DEN
TAB_ARC_RES
ROP5_RM
P16H
P22H
P28H
P34H
P40H
RHOB
TNPH
DRHB


2525
2550
2575
NEUTRON Last reading



ARC Gamma Ray (GR_ARC) 0 (GAPI) 150	**Slide Indicator (RPM_ADN) (RPM)** 0 200	**ARC Phase−Shift Resistivity 16−in. at 2 MHz (P16H)** 0.2 (OHMM) 200	**Bulk Density, Bottom (ROBB)** 1.95 (G/C3) 2.95
Density Time After Bit (TAB_DEN) 0 (HR) 10		**ARC Phase−Shift Resistivity 22−in. at 2 MHz (P22H)** 0.2 (OHMM) 200	**Thermal Neutron Porosity (TNPH)** 45 (PU) −15
ARC Resistivity Time After Bit (TAB_ARC_RES) 0 (HR) 10		**ARC Phase−Shift Resistivity 28−in. at 2 MHz (P28H)** 0.2 (OHMM) 200	**Bulk Density Correction, Bottom (DRHB)** −0.25 (G/C3) 0.25
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 200 (M/HR) 0		**ARC Phase−Shift Resistivity 40−in. at 2 MHz (P40H)** 0.2 (OHMM) 200	
		ARC Phase−Shift Resistivity 34−in. at 2 MHz (P34H) 0.2 (OHMM) 200	

2600

PIP SUMMARY

Density Ticks, 0.1−ft

ARC Gamma Ray Samples

ARC Resistivity Samples

Neutron Ticks, 0.1 ft

IDEAL Version: ID13_0C_08

IDF

8.25−in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:	
Tool Name and Serial Number	ADN8 − AA
Neutron Logging Source	NSR − N400
Density Logging Source	GSRZ−7793B
Stabilizer Size	8.25 − in.
Calibration Status	AUTO −

Master: Calibration out of date 18−Jun−2008 18:24

8.25−in. Azimuthal Density Neutron Calibration

Density: Magnesium Block

Phase	LS window 3 − Mg CPS	Value
Master		1893
	250.0 (Minimum) 4125 (Nominal) 8000 (Maximum)	

Phase	SS window 1 − Mg CPS	Value
Master		5741
	700.0 (Minimum) 9350 (Nominal) 18000 (Maximum)	

Phase	SS window 3 − Mg CPS	Value
Master		14200
	2500 (Minimum) 23750 (Nominal) 45000 (Maximum)	

Master: Calibration out of date 18−Jun−2008 18:24

8.25−in. Azimuthal Density Neutron Calibration

Density: Aluminum Block

Phase	LS window 3 − Al CPS	Value
Master		319.4
	50.00 (Minimum) 725.0 (Nominal) 1400 (Maximum)	

Phase	SS window 1 − Al CPS	Value
Master		3200
	500.0 (Minimum) 4250 (Nominal) 8000 (Maximum)	

Phase	SS window 3 − Al CPS	Value
Master		9438
	1500 (Minimum) 15750 (Nominal) 30000 (Maximum)	

Master: Calibration out of date 18−Jun−2008 18:24

8.25−in. Azimuthal Density Neutron Calibration

Density: Background

Phase	LS window 3 − Background CPS	Value
Master		50.24
	15.00 (Minimum) 82.50 (Nominal) 150.0 (Maximum)	

Phase	SS window 1 − Background CPS	Value
Master		117.4
	40.00 (Minimum) 220.0 (Nominal) 400.0 (Maximum)	

Phase	SS window 3 − Background CPS	Value
Master		506.4
	150.0 (Minimum) 825.0 (Nominal) 1500 (Maximum)	

Master: Calibration out of date 18−Jun−2008 18:24

8.25−in. Azimuthal Density Neutron Calibration

Density: Water Block Check

Phase	Long spacing water density G/C3	Value
Master		1.044
	1.026 (Minimum) 1.043 (Nominal) 1.059 (Maximum)	

Phase	Short spacing water density G/C3	Value
Master		1.181
	1.112 (Minimum) 1.155 (Nominal) 1.198 (Maximum)	

Master: Calibration out of date 18−Jun−2008 18:24

8.25−in. Azimuthal Density Neutron Calibration

Neutron: 3−Point Calibration

Phase	Far Tube 1 Air Point Measure CPS	Value
Master		133.0
	110.0 (Minimum) 140.3 (Nominal) 170.0 (Maximum)	

Phase	Far Tube 1 Rod Point Measure CPS	Value
Master		28.11
	23.00 (Minimum) 31.16 (Nominal) 37.00 (Maximum)	

Phase	Far Tube 1 Water Point Measure CPS	Value
Master		17.51
	15.00 (Minimum) 20.65 (Nominal) 25.00 (Maximum)	

Phase	Far Tube 2 Air Point Measure CPS	Value
Master		148.9
	120.0 (Minimum) 150.4 (Nominal) 180.0 (Maximum)	

Phase	Far Tube 2 Rod Point Measure CPS	Value
Master		29.93
	24.00 (Minimum) 32.40 (Nominal) 38.00 (Maximum)	

Phase	Far Tube 2 Water Point Measure CPS	Value
Master		19.01
	15.00 (Minimum) 21.52 (Nominal) 26.00 (Maximum)	

Phase	Far Tube 3 Air Point Measure CPS	Value
Master		150.5
	120.0 (Minimum) 151.5 (Nominal) 180.0 (Maximum)	

Phase	Far Tube 3 Rod Point Measure CPS	Value
Master		30.82
	24.00 (Minimum) 32.40 (Nominal) 38.00 (Maximum)	

Phase	Far Tube 3 Water Point Measure CPS	Value
Master		19.24
	15.00 (Minimum) 21.53 (Nominal) 26.00 (Maximum)	

Phase	Far Tube 4 Air Point Measure CPS	Value
Master		141.4
	120.0 (Minimum) 150.4 (Nominal) 180.0 (Maximum)	

Phase	Far Tube 4 Rod Point Measure CPS	Value
Master		29.05
	24.00 (Minimum) 32.40 (Nominal) 38.00 (Maximum)	

Phase	Far Tube 4 Water Point Measure CPS	Value
Master		18.55
	15.00 (Minimum) 21.52 (Nominal) 26.00 (Maximum)	

Phase	Far Tube 5 Air Point Measure CPS	Value
Master		142.0
	110.0 (Minimum) 140.3 (Nominal) 170.0 (Maximum)	

Phase	Far Tube 5 Rod Point Measure CPS	Value
Master		29.97
	23.00 (Minimum) 31.16 (Nominal) 37.00 (Maximum)	

Phase	Far Tube 5 Water Point Measure CPS	Value
Master		19.05
	15.00 (Minimum) 20.65 (Nominal) 25.00 (Maximum)	

Phase	Near Tube 1 Air Point Measure CPS	Value
Master		1501
	1300 (Minimum) 1605 (Nominal) 1900 (Maximum)	

Phase	Near Tube 1 Rod Point Measure CPS	Value
Master		2116
	1800 (Minimum) 2375 (Nominal) 2800 (Maximum)	

Phase	Near Tube 1 Water Point Measure CPS	Value
Master		1075
	900.0 (Minimum) 1288 (Nominal) 1500 (Maximum)	

Phase	Near Tube 2 Air Point Measure CPS	Value
Master		977.8
	800.0 (Minimum) 1027 (Nominal) 1200 (Maximum)	

Phase	Near Tube 2 Rod Point Measure CPS	Value
Master		921.9
	600.0 (Minimum) 989.1 (Nominal) 1200 (Maximum)	

Phase	Near Tube 2 Water Point Measure CPS	Value
Master		465.3
	300.0 (Minimum) 532.3 (Nominal) 700.0 (Maximum)	

Phase	Near Tube 3 Air Point Measure CPS	Value
Master		1520
	1300 (Minimum) 1605 (Nominal) 1900 (Maximum)	

Phase	Near Tube 3 Rod Point Measure CPS	Value
Master		2263
	1800 (Minimum) 2375 (Nominal) 2800 (Maximum)	

Phase	Near Tube 3 Water Point Measure CPS	Value
Master		1156
	900.0 (Minimum) 1288 (Nominal) 1500 (Maximum)	

Master: Calibration out of date 18−Jun−2008 18:24

8.25−in. Azimuthal Density Neutron Calibration

Neutron: Water Block Check

Phase	Far Neutron water porosity PU	Value
Master		108.3
	90.00 (Minimum) / 100.0 (Nominal) / 120.0 (Maximum)	

8.25−in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:

Tool Name and Serial Number	ARC8 − AA	8270
ARC825 Calibration Status	−	

Master: Calibration out of date 8−Jun−2008 8:32

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase−Shift T1	Value
Master		2.172
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T2	Value
Master		−2.111
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T3	Value
Master		2.077
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T4	Value
Master		−2.142
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T5	Value
Master		2.056
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T1 at 400KHz	Value
Master		−0.3280
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T2 at 400KHz	Value
Master		0.3061
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T3 at 400KHz	Value
Master		−0.3131
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T4 at 400KHz	Value
Master		0.2386
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Phase	Phase−Shift T5 at 400KHz	Value
Master		−0.3115
	−3.900 (Minimum) / 0.1000 (Nominal) / 4.100 (Maximum)	

Master: Calibration out of date 8−Jun−2008 8:32

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Attenuation T1	Value
Master		8.438
	6.500 (Minimum) / 8.500 (Nominal) / 10.50 (Maximum)	

Phase	Attenuation T2	Value
Master		6.238
	4.500 (Minimum) / 6.500 (Nominal) / 8.500 (Maximum)	

Phase	Attenuation T3	Value
Master		5.150
	2.500 (Minimum) / 4.500 (Nominal) / 6.500 (Maximum)	

Phase	Attenuation T4	Value
Master		4.185
	2.600 (Minimum) / 4.600 (Nominal) / 6.600 (Maximum)	

Phase	Attenuation T5	Value
Master		3.737
	1.600 (Minimum) / 3.600 (Nominal) / 5.600 (Maximum)	

Phase	Attenuation T1 at 400KHz	Value
Master		8.462
	6.500 (Minimum) / 8.500 (Nominal) / 10.50 (Maximum)	

Phase	Attenuation T2 at 400KHz	Value
Master		6.221
	4.500 (Minimum) / 6.500 (Nominal) / 8.500 (Maximum)	

Phase	Attenuation T3 at 400KHz	Value
Master		5.167
	2.500 (Minimum) / 4.500 (Nominal) / 6.500 (Maximum)	

Phase	Attenuation T4 at 400KHz	Value
Master		4.158
	2.600 (Minimum) / 4.600 (Nominal) / 6.600 (Maximum)	

Phase	Attenuation T5 at 400KHz	Value
Master		3.767
	1.600 (Minimum) / 3.600 (Nominal) / 5.600 (Maximum)	

Master: Calibration out of date 8−Jun−2008 9:57

8.25−in. Array Resistivity Compensated Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS	Value
Master		8.026

4.960 (Minimum)	7.200 (Nominal)	9.650 (Maximum)

8.25−in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:

Tool Name and Serial Number	ADN8 − AA
Neutron Logging Source	NSR − N400
Density Logging Source	GSRZ−7793B
Stabilizer Size	8.25 − in.
Calibration Status	AUTO −

Master: Calibration out of date 18−Jun−2008 5:03

8.25−in. Azimuthal Density Neutron Calibration

Density: Magnesium Block

Phase	LS window 3 − Mg CPS	Value	Phase	SS window 1 − Mg CPS	Value	Phase	SS window 3 − Mg CPS	Value
Master		1922	Master		6126	Master		14490
	250.0 (Minimum) 4125 (Nominal) 8000 (Maximum)			700.0 (Minimum) 9350 (Nominal) 18000 (Maximum)			2500 (Minimum) 23750 (Nominal) 45000 (Maximum)	

Master: Calibration out of date 18−Jun−2008 5:03

8.25−in. Azimuthal Density Neutron Calibration

Density: Aluminum Block

Phase	LS window 3 − Al CPS	Value	Phase	SS window 1 − Al CPS	Value	Phase	SS window 3 − Al CPS	Value
Master		331.0	Master		3506	Master		9902
	50.00 (Minimum) 725.0 (Nominal) 1400 (Maximum)			500.0 (Minimum) 4250 (Nominal) 8000 (Maximum)			1500 (Minimum) 15750 (Nominal) 30000 (Maximum)	

Master: Calibration out of date 18−Jun−2008 5:03

8.25−in. Azimuthal Density Neutron Calibration

Density: Background

Phase	LS window 3 − Background CPS	Value	Phase	SS window 1 − Background CPS	Value	Phase	SS window 3 − Background CPS	Value
Master		50.65	Master		113.6	Master		482.1
	15.00 (Minimum) 82.50 (Nominal) 150.0 (Maximum)			40.00 (Minimum) 220.0 (Nominal) 400.0 (Maximum)			150.0 (Minimum) 825.0 (Nominal) 1500 (Maximum)	

Master: Calibration out of date 18−Jun−2008 5:03

8.25−in. Azimuthal Density Neutron Calibration

Density: Water Block Check

Phase	Long spacing water density G/C3	Value	Phase	Short spacing water density G/C3	Value
Master		1.035	Master		1.141
	1.026 (Minimum) 1.043 (Nominal) 1.059 (Maximum)			1.112 (Minimum) 1.155 (Nominal) 1.198 (Maximum)	

Master: Calibration out of date 18−Jun−2008 5:03

8.25−in. Azimuthal Density Neutron Calibration

Neutron: 3−Point Calibration

Phase	Far Tube 1 Air Point Measure CPS	Value	Phase	Far Tube 1 Rod Point Measure CPS	Value	Phase	Far Tube 1 Water Point Measure CPS	Value
Master		134.1	Master		28.96	Master		18.52
	110.0 (Minimum) 140.3 (Nominal) 170.0 (Maximum)			23.00 (Minimum) 31.16 (Nominal) 37.00 (Maximum)			15.00 (Minimum) 20.65 (Nominal) 25.00 (Maximum)	
Phase	Far Tube 2 Air Point Measure CPS	Value	Phase	Far Tube 2 Rod Point Measure CPS	Value	Phase	Far Tube 2 Water Point Measure CPS	Value
Master		148.3	Master		31.65	Master		19.90
	120.0 (Minimum) 150.4 (Nominal) 180.0 (Maximum)			24.00 (Minimum) 32.40 (Nominal) 38.00 (Maximum)			15.00 (Minimum) 21.52 (Nominal) 26.00 (Maximum)	
Phase	Far Tube 3 Air Point Measure CPS	Value	Phase	Far Tube 3 Rod Point Measure CPS	Value	Phase	Far Tube 3 Water Point Measure CPS	Value
Master		148.0	Master		31.29	Master		19.77
	120.0 (Minimum) 151.5 (Nominal) 180.0 (Maximum)			24.00 (Minimum) 32.40 (Nominal) 38.00 (Maximum)			15.00 (Minimum) 21.53 (Nominal) 26.00 (Maximum)	
Phase	Far Tube 4 Air Point Measure CPS	Value	Phase	Far Tube 4 Rod Point Measure CPS	Value	Phase	Far Tube 4 Water Point Measure CPS	Value
Master		142.4	Master		30.24	Master		19.21
	120.0 (Minimum) 150.4 (Nominal) 180.0 (Maximum)			24.00 (Minimum) 32.40 (Nominal) 38.00 (Maximum)			15.00 (Minimum) 21.52 (Nominal) 26.00 (Maximum)	
Phase	Far Tube 5 Air Point Measure CPS	Value	Phase	Far Tube 5 Rod Point Measure CPS	Value	Phase	Far Tube 5 Water Point Measure CPS	Value
Master		136.6	Master		30.08	Master		19.18

Master	110.0 (Minimum)	140.3 (Nominal)	170.0 (Maximum)	136.6
Master	23.00 (Minimum)	31.16 (Nominal)	37.00 (Maximum)	30.08
Master	15.00 (Minimum)	20.65 (Nominal)	25.00 (Maximum)	19.18

Phase	Near Tube 1 Air Point Measure CPS	Value
Master	1300 (Minimum) 1605 (Nominal) 1900 (Maximum)	1513

Phase	Near Tube 1 Rod Point Measure CPS	Value
Master	1800 (Minimum) 2375 (Nominal) 2800 (Maximum)	2116

Phase	Near Tube 1 Water Point Measure CPS	Value
Master	900.0 (Minimum) 1288 (Nominal) 1500 (Maximum)	1088

Phase	Near Tube 2 Air Point Measure CPS	Value
Master	800.0 (Minimum) 1027 (Nominal) 1200 (Maximum)	967.5

Phase	Near Tube 2 Rod Point Measure CPS	Value
Master	600.0 (Minimum) 989.1 (Nominal) 1200 (Maximum)	910.2

Phase	Near Tube 2 Water Point Measure CPS	Value
Master	300.0 (Minimum) 532.3 (Nominal) 700.0 (Maximum)	467.9

Phase	Near Tube 3 Air Point Measure CPS	Value
Master	1300 (Minimum) 1605 (Nominal) 1900 (Maximum)	1517

Phase	Near Tube 3 Rod Point Measure CPS	Value
Master	1800 (Minimum) 2375 (Nominal) 2800 (Maximum)	2152

Phase	Near Tube 3 Water Point Measure CPS	Value
Master	900.0 (Minimum) 1288 (Nominal) 1500 (Maximum)	1111

Master: Calibration out of date 18−Jun−2008 5:03

8.25−in. Azimuthal Density Neutron Calibration

Neutron: Water Block Check

Phase	Far Neutron water porosity PU	Value
Master	90.00 (Minimum) 100.0 (Nominal) 120.0 (Maximum)	116.3

8.25−in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:

Tool Name and Serial Number	ARC8 − AA	9078
ARC825 Calibration Status	−	

Master: Calibration out of date 28−Apr−2008 15:06

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase−Shift T1	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	0.5746

Phase	Phase−Shift T2	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	−0.5489

Phase	Phase−Shift T3	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	0.4914

Phase	Phase−Shift T4	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	−0.6287

Phase	Phase−Shift T5	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	0.4811

Phase	Phase−Shift T1 at 400KHz	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	0.3191

Phase	Phase−Shift T2 at 400KHz	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	−0.3568

Phase	Phase−Shift T3 at 400KHz	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	0.3384

Phase	Phase−Shift T4 at 400KHz	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	−0.4028

Phase	Phase−Shift T5 at 400KHz	Value
Master	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	0.3277

Master: Calibration out of date 28−Apr−2008 15:06

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Attenuation T1	Value
Master	6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)	8.586

Phase	Attenuation T2	Value
Master	4.500 (Minimum) 6.500 (Nominal) 8.500 (Maximum)	6.067

Phase	Attenuation T3	Value
Master	2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)	5.303

Phase	Attenuation T4	Value
Master	2.600	4.022

Phase	Attenuation T5	Value
Master	1.600	3.895

Phase	Attenuation T1 at 400KHz	Value
Master	6.500	8.591

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)

Phase	Attenuation T2 at 400KHz	Value
Master	4.500 (Minimum) / 6.500 (Nominal) / 8.500 (Maximum)	6.072

Phase	Attenuation T3 at 400KHz	Value
Master	2.500 (Minimum) / 4.500 (Nominal) / 6.500 (Maximum)	5.307

Phase	Attenuation T4 at 400KHz	Value
Master	2.600 (Minimum) / 4.600 (Nominal) / 6.600 (Maximum)	4.024

Phase	Attenuation T5 at 400KHz	Value
Master	1.600 (Minimum) / 3.600 (Nominal) / 5.600 (Maximum)	3.908

Master: Calibration out of date 26−Apr−2008 11:38

8.25−in. Array Resistivity Compensated Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS	Value
Master	4.960 (Minimum) / 7.200 (Nominal) / 9.650 (Maximum)	8.387

SCHLUMBERGER

Survey report 13-Sep-2008 17:54:50 Page 1 of 4

Client.....: Nexus Energy Limited
Field.....: Longtom

Well.....: Longtom-4
API number.....: 08ASQ0007
Engineer.....: Yuda/Chris.H/STDAung

Rig:.....: West Triton
State:.....: Victoria

Spud date.....: 20-June-08
Last survey date.....: 01-Sep-08
Total accepted surveys...: 77
MD of first survey.....: 0.00 m
MD of last survey.....: 2600.00 m

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Depth reference -----
Permanent datum.....: Least Astronomical Tide
Depth reference.....: Driller's Depth
GL above permanent.....: -97.06 m
KB above permanent.....: Top Drive
DF above permanent.....: 41.06 m

----- Vertical section origin----
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m

----- Platform reference point----
Latitude (+N/S-).....:
Departure (+E/W-).....:

Azimuth from Vsect Origin to target: 183.55 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2007
Magnetic date.....: 29-Jun-2008
Magnetic field strength..: 1195.93 HCNT
Magnetic dec (+E/W-).....: 13.10 degrees
Magnetic dip.....: -68.59 degrees

----- MWD survey Reference Criteria ---
Reference G.....: 1000.02 mGal
Reference H.....: 1195.93 HCNT
Reference Dip.....: -68.59 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.10 degrees
Grid convergence (+E/W-).: -0.82 degrees
Total az corr (+E/W-)....: 13.92 degrees
(Total az corr = magnetic dec - grid conv)
Survey Correction Type ...:
I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=Shell Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ D/M	Srvy tool type	Tool Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	97.03	0.00	0.00	97.03	97.03	0.00	0.00	0.00	0.00	0.00	0.00	MWD	None
3	116.15	0.69	328.34	19.12	116.15	-0.09	0.10	-0.06	0.12	328.34	0.04	MWD	None
4	124.06	0.56	358.29	7.91	124.06	-0.17	0.18	-0.09	0.20	333.96	0.04	MWD	None
5	147.44	0.36	43.93	23.38	147.44	-0.34	0.34	-0.04	0.35	353.53	0.02	MWD	None
6	204.75	0.52	335.69	57.31	204.75	-0.71	0.71	-0.02	0.71	358.29	0.01	MWD	None
7	324.05	0.78	189.14	119.30	324.04	-0.38	0.40	-0.37	0.55	317.18	0.01	MWD	None
8	382.91	0.23	326.57	58.86	382.90	-0.07	0.11	-0.50	0.51	281.89	0.02	MWD	None
9	412.77	0.34	250.06	29.86	412.76	-0.09	0.13	-0.62	0.63	281.47	0.01	MWD	None
10	442.90	0.19	118.87	30.13	442.89	-0.03	0.07	-0.66	0.66	276.14	0.02	MWD	None
11	531.83	0.85	328.15	88.93	531.82	-0.50	0.56	-0.88	1.04	302.55	0.01	MWD	None
12	563.30	0.97	289.41	31.47	563.29	-0.77	0.85	-1.25	1.51	304.08	0.02	MWD	None
13	651.66	0.44	355.43	88.36	651.64	-1.31	1.43	-1.98	2.45	305.85	0.01	MWD	None
14	741.14	0.59	334.49	89.48	741.12	-2.05	2.19	-2.21	3.11	314.76	0.00	MWD	None
15	750.39	0.71	327.45	9.25	750.37	-2.14	2.28	-2.26	3.21	315.27	0.02	MWD	None
16	783.28	0.52	304.12	32.89	783.25	-2.38	2.54	-2.49	3.56	315.50	0.01	PUP	None
17	812.94	2.32	203.29	29.66	812.91	-1.88	2.06	-2.84	3.51	305.96	0.08	PUP	None
18	842.62	5.16	197.90	29.68	842.52	-0.02	0.24	-3.49	3.50	273.94	0.10	PUP	None
19	872.25	7.16	192.11	29.63	871.98	3.09	-2.83	-4.29	5.14	236.55	0.07	PUP	None

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ D/M	Srvy tool type	Tool Corr (deg)
20	901.94	8.22	183.91	29.69	901.40	7.05	-6.76	-4.82	8.30	215.50	0.05	PUP	None
21	931.42	10.19	179.91	29.48	930.50	11.76	-11.47	-4.96	12.50	203.39	0.07	PUP	None
22	960.94	13.95	179.75	29.52	959.36	17.91	-17.64	-4.94	18.32	195.65	0.13	PUP	None
23	990.68	17.52	178.95	29.74	987.98	25.96	-25.71	-4.84	26.16	190.67	0.12	PUP	None
24	1020.40	20.88	177.48	29.72	1016.05	35.68	-35.47	-4.53	35.76	187.28	0.11	PUP	None
25	1050.08	24.28	176.64	29.68	1043.45	47.01	-46.85	-3.94	47.02	184.80	0.12	PUP	None
26	1078.64	25.70	178.42	28.56	1069.33	59.00	-58.90	-3.42	59.00	183.33	0.06	PUP	None
27	1108.28	26.85	180.79	29.64	1095.91	72.09	-72.02	-3.34	72.10	182.65	0.05	PUP	None
28	1137.39	27.64	182.43	29.11	1121.79	85.41	-85.34	-3.72	85.42	182.49	0.04	PUP	None
29	1166.97	28.48	183.83	29.58	1147.89	99.32	-99.23	-4.48	99.34	182.58	0.04	PUP	None
30	1196.40	29.46	184.58	29.43	1173.64	113.57	-113.45	-5.52	113.58	182.79	0.04	PUP	None

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ D/M	Srvy tool type	Tool Corr (deg)
31	1225.95	30.16	185.46	29.55	1199.28	128.26	-128.08	-6.81	128.26	183.04	0.03	PUP	None
32	1255.99	29.83	185.82	30.04	1225.30	143.27	-143.03	-8.29	143.27	183.32	0.01	PUP	None
33	1285.37	30.03	186.70	29.38	1250.76	157.91	-157.60	-9.88	157.91	183.59	0.02	PUP	None
34	1315.16	31.09	187.90	29.79	1276.41	173.02	-172.62	-11.81	173.03	183.91	0.04	PUP	None
35	1344.99	31.21	187.53	29.83	1301.94	188.41	-187.91	-13.88	188.42	184.23	0.01	PUP	None
36	1374.68	30.42	184.92	29.69	1327.44	203.60	-203.03	-15.54	203.62	184.38	0.05	PUP	None
37	1404.59	30.04	183.00	29.91	1353.28	218.66	-218.05	-16.58	218.68	184.35	0.03	PUP	None
38	1433.94	31.67	182.29	29.35	1378.48	233.71	-233.09	-17.27	233.72	184.24	0.06	PUP	None
39	1463.79	30.65	181.20	29.85	1404.02	249.14	-248.52	-17.74	249.16	184.08	0.04	PUP	None
40	1493.62	30.04	180.72	29.83	1429.76	264.20	-263.59	-18.00	264.20	183.91	0.02	PUP	None
41	1523.35	30.08	180.58	29.73	1455.50	279.07	-278.48	-18.16	279.07	183.73	0.00	PUP	None
42	1553.11	30.38	181.81	29.76	1481.21	294.04	-293.46	-18.48	294.04	183.60	0.02	PUP	None
43	1583.05	30.31	183.44	29.94	1507.05	309.16	-308.57	-19.17	309.16	183.55	0.03	PUP	None
44	1612.84	30.34	184.08	29.79	1532.76	324.21	-323.58	-20.16	324.21	183.56	0.01	PUP	None
45	1642.12	30.48	183.53	29.28	1558.01	339.03	-338.37	-21.14	339.03	183.57	0.01	PUP	None
46	1671.81	30.16	182.75	29.69	1583.64	354.01	-353.33	-21.96	354.01	183.56	0.02	PUP	None
47	1701.38	29.96	181.97	29.57	1609.24	368.82	-368.13	-22.57	368.82	183.51	0.01	PUP	None
48	1730.84	30.49	182.20	29.46	1634.69	383.65	-382.95	-23.11	383.65	183.45	0.02	PUP	None
49	1760.64	30.44	183.16	29.80	1660.38	398.75	-398.04	-23.82	398.76	183.42	0.02	PUP	None
50	1790.34	29.76	183.49	29.70	1686.07	413.65	-412.91	-24.68	413.65	183.42	0.02	PUP	None
51	1820.04	29.12	183.26	29.70	1711.94	428.25	-427.49	-25.54	428.25	183.42	0.02	PUP	None
52	1849.86	28.05	182.80	29.82	1738.12	442.51	-441.73	-26.30	442.51	183.41	0.04	PUP	None
53	1879.39	28.44	182.54	29.53	1764.14	456.49	-455.69	-26.95	456.49	183.38	0.01	PUP	None
54	1909.08	29.18	181.91	29.69	1790.15	470.79	-469.99	-27.50	470.79	183.35	0.03	PUP	None
55	1938.97	29.25	182.37	29.89	1816.24	485.37	-484.57	-28.05	485.38	183.31	0.01	PUP	None
56	1968.51	27.81	181.63	29.54	1842.19	499.48	-498.67	-28.54	499.48	183.28	0.05	PUP	None
57	1998.05	27.26	181.66	29.54	1868.38	513.13	-512.32	-28.93	513.13	183.23	0.02	PUP	None
58	2028.03	26.98	181.70	29.98	1895.07	526.79	-525.98	-29.33	526.80	183.19	0.01	PUP	None
59	2057.68	29.01	184.81	29.65	1921.25	540.70	-539.87	-30.14	540.71	183.19	0.08	PUP	None
60	2087.27	29.58	188.03	29.59	1947.06	555.15	-554.25	-31.76	555.16	183.28	0.06	PUP	None

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ D/M	Srvy tool type	Tool Corr (deg)
61	2116.78	29.55	188.02	29.51	1972.72	569.67	-568.67	-33.79	569.67	183.40	0.00	PUP	None
62	2146.82	30.97	187.12	30.04	1998.67	584.77	-583.67	-35.78	584.77	183.51	0.05	PUP	None
63	2176.36	31.76	185.57	29.54	2023.89	600.13	-598.95	-37.48	600.13	183.58	0.04	PUP	None
64	2206.21	31.48	183.82	29.85	2049.31	615.77	-614.55	-38.76	615.77	183.61	0.03	PUP	None
65	2235.88	31.35	183.41	29.67	2074.63	631.24	-629.98	-39.74	631.24	183.61	0.01	PUP	None
66	2265.38	32.11	184.62	29.50	2099.72	646.75	-645.46	-40.82	646.75	183.62	0.03	PUP	None
67	2295.13	31.69	185.04	29.75	2124.98	662.47	-661.12	-42.15	662.47	183.65	0.02	PUP	None
68	2325.11	33.21	184.84	29.98	2150.28	678.55	-677.15	-43.53	678.55	183.68	0.05	PUP	None
69	2355.31	35.92	185.28	30.20	2175.15	695.67	-694.22	-45.04	695.68	183.71	0.09	PUP	None
70	2385.09	36.82	184.07	29.78	2199.13	713.33	-711.82	-46.48	713.33	183.74	0.04	PUP	None
71	2413.59	37.70	183.21	28.50	2221.81	730.58	-729.03	-47.58	730.59	183.73	0.04	PUP	None
72	2472.44	42.55	182.99	58.85	2266.79	768.50	-766.89	-49.62	768.50	183.70	0.08	PUP	None
73	2502.19	45.34	182.77	29.75	2288.21	789.14	-787.51	-50.66	789.14	183.68	0.09	PUP	None
74	2531.76	48.61	183.24	29.57	2308.39	810.75	-809.10	-51.79	810.75	183.66	0.11	PUP	None
75	2561.19	50.89	182.57	29.43	2327.40	833.21	-831.53	-52.93	833.21	183.64	0.08	PUP	None
76	2578.22	52.52	183.03	17.03	2337.95	846.57	-844.88	-53.58	846.57	183.63	0.10	PUP	None
77	2600.00	52.52	183.03	21.78	2351.21	863.86	-862.14	-54.50	863.86	183.62	0.00	Proj. to TD	

Company: **Nexus Energy Limited**

Schlumberger

Well: **Longtom−4**

Field:	Longtom
Rig:	West Triton
State:	Victoria

13.5 in Section

VISION Service
1:200 Measured Depth
Real Time Data

Longtom−4 RM 200MD WashDown Log

ADN id13_0c_02

Format: 200MD_ADN_ARC Vertical Scale: 1:200 Graphics File Created: 24−Sep−2008 03:03

PIP SUMMARY

Density Ticks, 0.1−ft

ARC Gamma Ray Samples

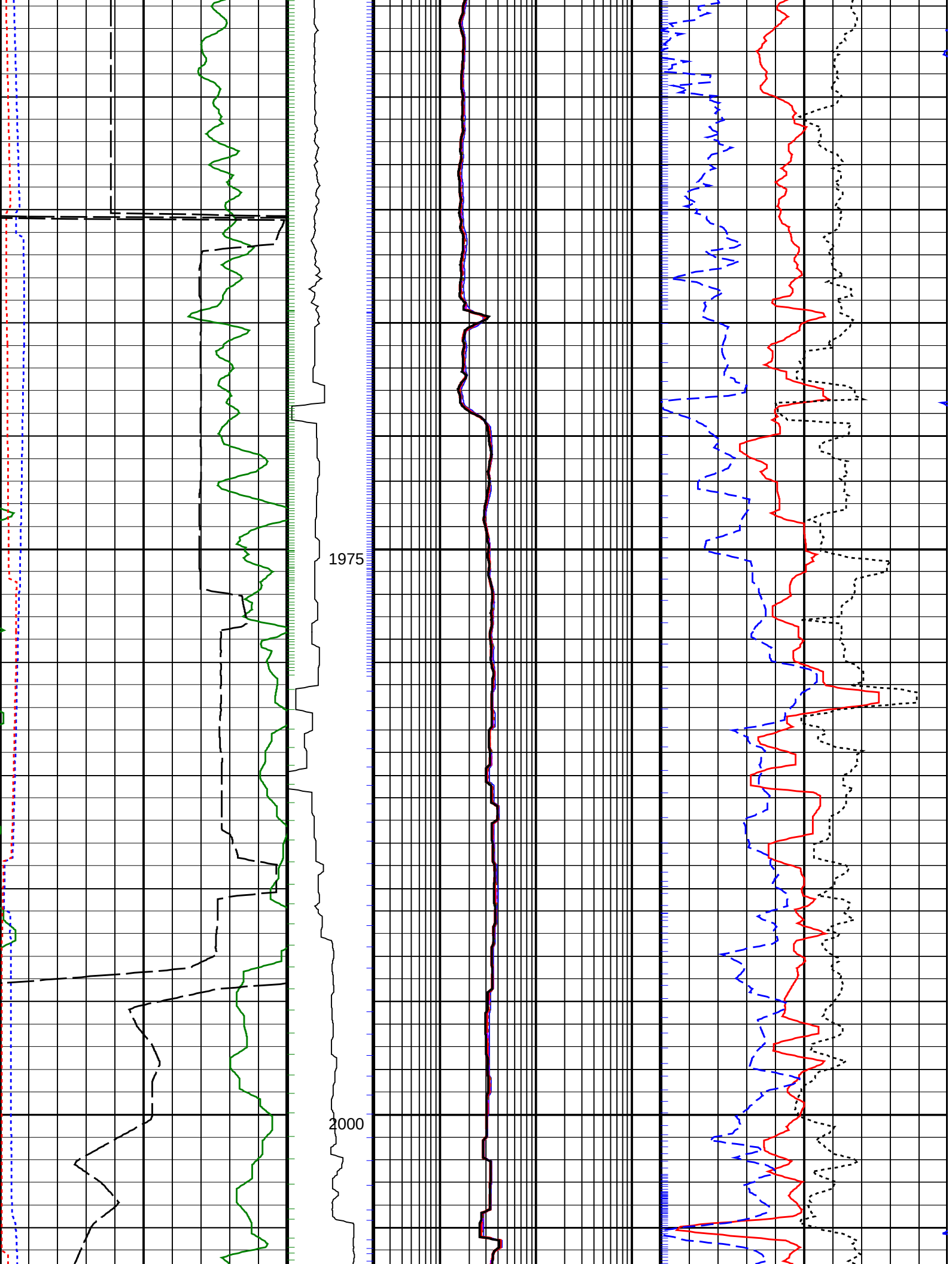
ARC Resistivity Samples

Neutron Ticks, 0.1 ft

	ARC Phase−Shift Resistivity 34−in. at 2 MHz (P34H) 0.2 (OHMM) 200	
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 200 (M/HR) 0	ARC Phase−Shift Resistivity 40−in. at 2 MHz (P40H) 0.2 (OHMM) 200	
ARC Resistivity Time After Bit (TAB_ARC_RES) 0 (HR) 10	ARC Phase−Shift Resistivity 28−in. at 2 MHz (P28H) 0.2 (OHMM) 200	Bulk Density Correction, Bottom (DRHB) −0.25 (G/C3) 0.25
Density Time After Bit (TAB_DEN) 0 (HR) 10	ARC Phase−Shift Resistivity 22−in. at 2 MHz (P22H) 0.2 (OHMM) 200	Thermal Neutron Porosity (TNPH) 45 (PU) −15
ARC Gamma Ray (GR_ARC) 0 (GAPI) 150	Slide Indicator (RPM_ADN) (RPM) 0 200	ARC Phase−Shift Resistivity 16−in. at 2 MHz (P16H) 0.2 (OHMM) 200
		Bulk Density, Bottom (ROBB) 1.95 (G/C3) 2.95

Start WashDown@1950m MD

1950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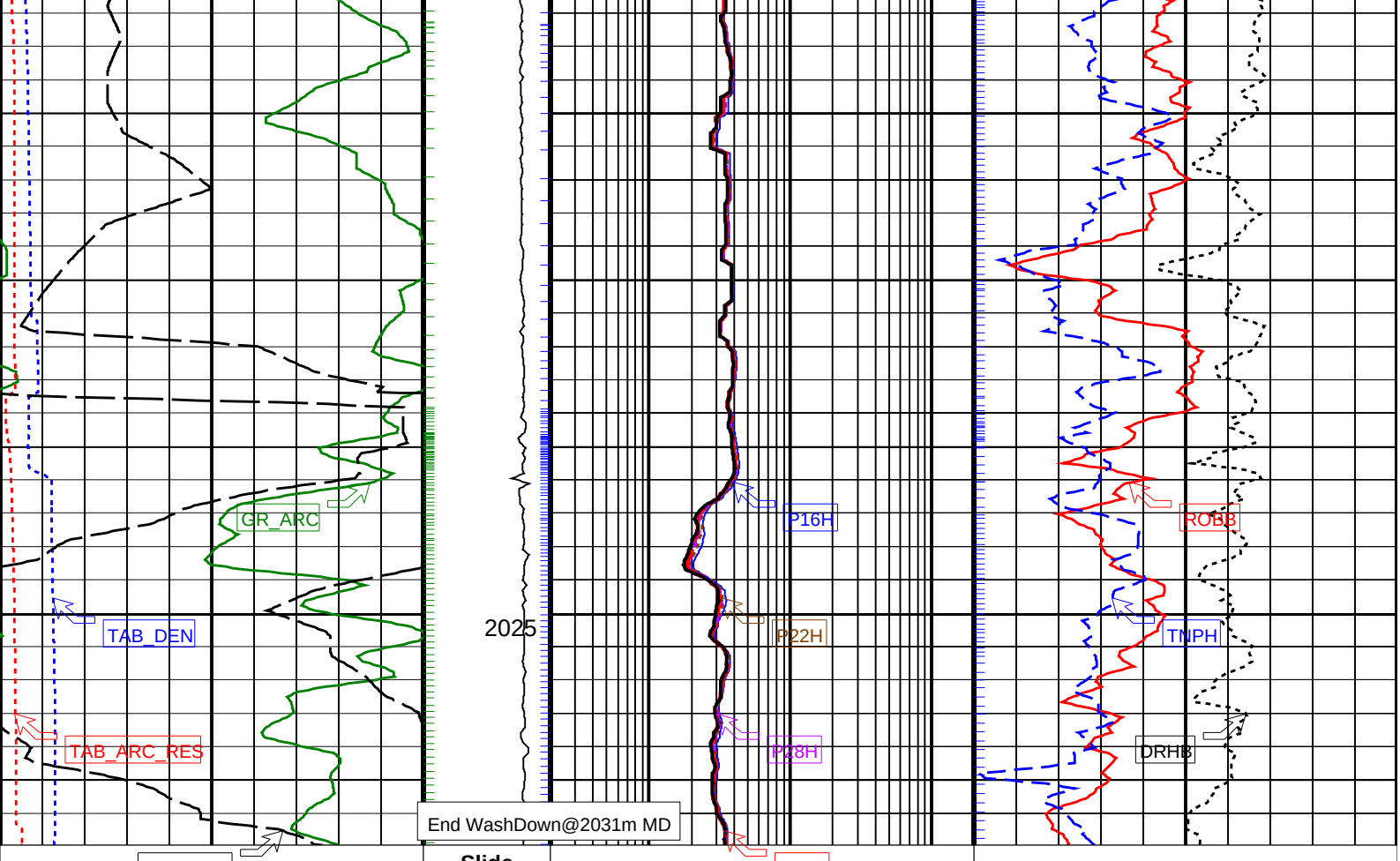
2000



ROP5_RM

ARC Gamma Ray (GR_ARC)
0 (GAPI) 150

Slide Indicator (RPM_ADN) (RPM)
0 200

ARC Phase−Shift Resistivity 16−in. at 2 MHz (P16H)
0.2 (OHMM) 200

Bulk Density, Bottom (ROBB)
1.95 (G/C3) 2.95

Density Time After Bit (TAB_DEN)
0 (HR) 10

ARC Phase−Shift Resistivity 22−in. at 2 MHz (P22H)
0.2 (OHMM) 200

Thermal Neutron Porosity (TNPH)
45 (PU) −15

ARC Resistivity Time After Bit (TAB_ARC_RES)
0 (HR) 10

ARC Phase−Shift Resistivity 28−in. at 2 MHz (P28H)
0.2 (OHMM) 200

Bulk Density Correction, Bottom (DRHB)
−0.25 (G/C3) 0.25

Rate of Penetration, Averaged over Last 5ft (ROP5_RM)
200 (M/HR) 0

ARC Phase−Shift Resistivity 40−in. at 2 MHz (P40H)
0.2 (OHMM) 200

ARC Phase−Shift Resistivity 34−in. at 2 MHz (P34H)
0.2 (OHMM) 200

PIP SUMMARY

Density Ticks, 0.1−ft

ARC Gamma Ray Samples

ARC Resistivity Samples

Neutron Ticks, 0.1 ft

IDEAL Version: ID13_0C_08

IDF

ADN id13_0c_02