Schlumberger

Company: **Beach Petroleum Ltd**

Well: **PeeJay−1**
Field: **Wildcat**
Rig: **West Triton** State: **Tasmania**

Rig: West Triton
Field: Wildcat
Location: T/39P TAS
Well: PeeJay−1
Company: Beach Petroleum Ltd

VISION Services
1:200 Measured Depth
Recorded Mode Log

Location

Total depth:	2183.0 m	Elevation	K.B. Top Drive
Spud date:	15−NOV−08		G.L. −78.00 m
Runs:	2 To 3		D.F. 34.15 m
Permanent datum:	Means Sea Level	Elev.:	0.00 m
Log measured from:	Drill Floor		34.15 m above Perm. datum
Depth reference:	Driiler's Depth		

Service Order no.	X = E 445,750.430 m	Longitude	Latitude
08ASQ0031	Y = N 5,516,918.630 m	146°21'35.4578 E	40°29'47.9079 S

Depth logged:	804.0 m To 2181.9 m	Mag decl: 13.22 deg.	Other services:
Date logged:	21−NOV−08 To 27−NOV−08	Mag dip: −70.86 deg.	See Remarks

Bore hole record

Hole size	from	to
36.00 in.	0.0 m	210.0 m
16.00 in.	210.0 m	810.0 m
12.25 in.	810.0 m	2183.0 m

Casing record

Size	Density	from	to
30.00 in.	310.0 lb/ft	0.0 m	206.0 m
13.375 in.	68.0 lb/ft	206.0 m	804.0 m

Mud record

Type	from	to
Sea Water	0.0 m	810.0 m
KCl/Polymer	810.0 m	2183.0 m

Borehole deviation record

Min	Max	from	to
0.00 deg.	1.45 deg.	0.0 m	2183.0 m

Surface equipment

Unit	OLU−KC−0702
Depth system	PDA−CLT

Software record

IDEAL Wis	ID13_OC_14		
HSPM	13_Oc_03		
LWD	See Remarks		
MWD	See Remarks		

OTHER SERVICES FOR RUN

OTHER SERVICES FOR RUN3
Directional Surveys
Shcok & Vibrations

OTHER SERVICES FOR RUN2
Directional Surveys
Annular Pressure & Temperature
Shock & Vibrations

REMARKS: RUN NUMBER

REMARKS: RUN NUMBER 3
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

REMARKS: RUN NUMBER 2
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

Delta−T is borehole compensated

POOH to change bit

Delta−T is borehole compensated

Button sensor failed @1680m & 1713m MD

POOH due to well TD

EQUIPMENT DESCRIPTION

RUN2	RUN3	RUN

DOWNHOLE EQUIPMENT

8−1/4" sadnVISION* 32.86
DHS: V8.3A
SN#42736
Neutron 28.74
Density 26.88
UltraSonic 26.66

8−1/4" sonicVISION* 23.50
DHS: V6.6b04
SN#41229
Delta−T 20.93

8−1/4" TeleScope* 15.79
DHS: 9.2c02
SN#VR52
D&I 11.48

8−1/4" arcVISION* 7.36
DHS: V9.3b Gamma Ray 4.12
SN#1196 Resistivity 4.07

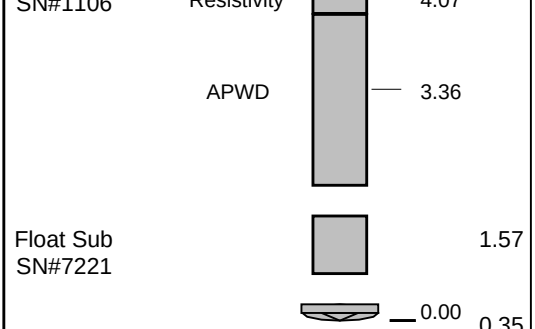
DOWNHOLE EQUIPMENT

8*1/4" sadnVISION* 31.24
DHS: V8.3A
SN#42736
Neutron 27.12
Density 25.26
UltraSonic 25.04

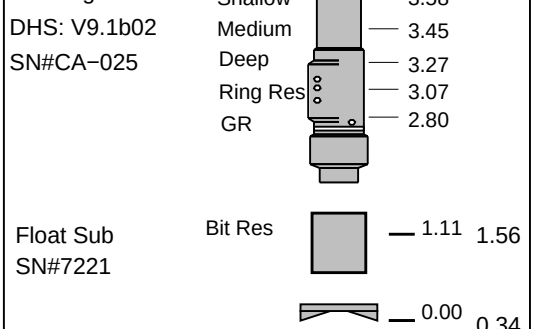
8−1/4" sonicVISION* 21.90
DHS: V6.6b04
SN#857
Delta−T 18.83

8−1/4" TeleScope* 14.25
DHS: 9.2c02
SN#VR52
D&I 9.94

8−1/4" geoVISION* Shallow 3.58 5.82



Maximum string diameter 12.25 in.
All lengths in Meters



Maximum string diameter 12.25 in.
All lengths in Meters

Bit Run Summary

Run number		2	3
Bit size	in	12.25	12.25
Bit start depth	m	810.0	1454.0
Bit end depth	m	1454.0	2183.0
Top interval logged	m	804.0	1450.6
Bottom interval logged	m	1450.6	2181.9
Begin log: time		16:00	01:46
Begin log: date		21−NOV−08	24−NOV−08
End log: time		19:30	01:50
End log: date		23−NOV−08	28−NOV−08
Mud data			
Depth	m	1296	1838
Type		WBM	WBM
Mud weight	lbs/galUS	9.5	9.5
Solids	%	3.1	4.9
Chlorides	ppm	35,000	38,100
Rm	ohm−m@degC	0.1254@21.8	0.0925@21.8
Rmf	ohm−m@degC	0.1118@21.7	0.0892@21.3
Rmc	ohm−m@degC	0.2670@21.6	0.1516@21.9
Potassium	%	3.66	3.76
Environmental data			
GR			
Mud weight	ppg	9.5	9.5
Bit size	in	12.25	12.25
Resistivity			
Neutron porosity			
Hole Size	in	12.25	12.25
Mud weight	lbs/galUS	9.5	9.5
Temperature	degC	21.8	21.8
Mud salinity	PPK	51.307	57.368
Formation salinity	PPK	N/A	N/A
Recording rate 1	SEC	5(ADN) 6(ARC)	5(ADN) 5(GVR)
Recording rate 2	SEC	10 (Sonic)	10 (Sonic)
Filtering GR		3 pts	3 pts
Filtering density		3 pts	3 pts
Filtering Neutron		3 pts	3 pts
Company representative		P Dane	S DeFreitas
Anadrill personnel		M Sihite	D Perkins

W Chehabi

Variable Name	Variable Description		Run Name & Value		
	Run Number		2		3
	General Information				
BHT_RM	Bottom Hole Temperature (RM)	DEGC	59.000		79.220
BSAL_RM	Mud Salinity (RM)	PPK	51.307		57.368
BS_RM	Bit Size (RM)	IN	12.250		12.250
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)	----	XPLOT		XPLOT
MST_RM	Mud Sample temperature (RM)	DEGC	21.800		21.800
MW_RM	Mud Weight (RM)	LB/G	9.500		9.500
OBMF_RM	Oil Based Mud (RM)	----	NO		NO
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	0.125		0.093
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	10.000		10.000
TD_RM	Total Measured Depth (RM)	M	1454.000		2183.000
TWS_RM	Temperature of Connate Water (RM)	DEGC	23.889		23.889
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	8.592		
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.581		
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	6.118		
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	6.135		
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	5.287		
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	5.274		
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	4.066		
A44A	**ARC Air Cal Attenuation From T4 at 400 KHz**	**DB**	**4.080**		
A52A	**ARC Air Cal Attenuation From T5 at 2 MHz**	**DB**	**3.872**		
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB	3.872		
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed		
ADHS	ARC Down Hole Software Version	----	No_Tx_Failed		
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000		
ANISO_COMPUTE	Anisotropy Computation Option	----	YES		
APICG	ARC5 Gamma Ray Gain Factor	----	1.049		
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	----	2		3
ATSN	ARC Tool Serial Number	----	1056		
AZMF	Formation DIP Azimuth	DEG	0.000		
BH_COMPUTE	Borehole Inversion Computation Option	----	YES		
CALG	ARC Gamma Ray Cal Gain Factor	----	1.049		
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	----	22-Nov-2008		
KPER	Potassium Concentration (RM)	----	3.661		3.766
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	0.492		
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	0.364		
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-0.431		
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	-0.376		
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	0.397		
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	0.378		
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-0.536		
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	-0.402		
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	0.380		
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	0.343		

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	
RSD	LWD run start date dd-mmm-yy	----	22-Nov-2008	24-Nov-2008
RWA_COMP_MOD	Rwa computation model	----	BASIC	BASIC
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	----	RT	RT
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	8.250	
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_%	K_by_Wgt_%
	SAD			
ADN_CHASSIS_STR	Type String	Chassis	ADN	ADN
ADN_COLLAR_STR	Type String	Collar	ADN	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
ADN_STAB_STR	ADN Stabilizer Type String	----	NO	NO
ALPHA_COMPUTE_D	Perform Density Enhanced Vertical Resolution process ?	----	YES	YES
ALPHA_COMPUTE_N	Perform Neutron Enhanced Vertical Resolution process ?	----	NO	NO
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	0.014	0.641
DTIK_SEL	ADN: Density Tick Channel Name	----	LSAZ	LSAZ
DTMUD	Delta-T for Mud	US/F	200.000	200.000
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
FCD	Future Casing (Outer) Diameter	IN	9.625	9.625
GCSE	Generalized Caliper Selection	----	BS	BS
IDQT	Image Derived Quality Threshold	----	2.000	2.000
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	----	22-Nov-2008	24-Nov-2008
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	12.000	12.000
STOH	ADN Density Top of Hole Sector (Left Boundary):	----	SECTOR_0	SECTOR_0
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	----	8.300	8.300
WSDI	Window Size of Dynamic Normalization Image	M	15.240	15.240
	RAB			
RAB/BTN_SLV_SIZE/PARAMETE	IN -- RAB: Button Sleeve Diameter		7/8	11
RAB/STAB_SIZE/PARAMETER	RAB: Stabilizer Diameter		IN	12-12.25
BDBHCA	RAB: Button Deep Borehole A Factor		----	-0.035
BDBHCB	RAB: Button Deep Borehole B Factor		----	-0.020
BHA_COEF_VER	RAB: BHA Coef Generator Version		----	80012.000
BITBHCA	RAB: Bit A Borehole Factor		----	0.114
BITBHCB	RAB: Bit B Borehole Factor		----	-0.037
BIT_K_FACTOR	RAB: Bit K Factor		----	4.643
BMBHCA	RAB: Button Medium Borehole A Factor		----	0.006
BMBHCB	RAB: Button Medium Borehole B Factor		----	-0.021
BSBHCA	RAB: Button Shallow Borehole A Factor		----	-0.009
BSBHCB	RAB: Button Shallow Borehole B Factor		----	-0.037
BUT_KIMP_A	RAB: Button Impedance Coeff A		----	0.002
BUT_KIMP_B	RAB: Button Impedance Coeff B		----	0.000
DBUTTON_K_FACTO	RAB: Button Deep K factor		----	0.003
DHS_VERSION	RAB: DownHole Software Version		----	9.100
GR_BHC_TOOLSIZE	RAB: Gamma-Ray Borehole Coeff 1		----	8.250
HI_CSDEPTH_OUT	RAB: Allow Hi-Resolution CS_DEPTH Image Data Output		----	NO
HI_DLIS_OUT	RAB: Allow Hi-Resolution DLIS Image Data Output		----	NO
HI_RIVER_OUT	RAB: Allow Hi-Resolution River for Image Data Output		----	NO
IMAGE_MAX_GR	RAB: GR Image Maximum Scale Value		GAPI	120.000
IMAGE_MAX_RES	RAB: Image Maximum Resistivity Value		OHMM	100.000
IMAGE_MIN_GR	RAB: GR Image Minimum Scale Value		GAPI	20.000
IMAGE_MIN_RES	RAB: Image Minimum Resistivity Value		OHMM	1.000
JSD_RAB	RAB Acquisition start date		----	24-Nov-2008
MAG_DECL_RAB	RAB: Magnetic Declination		DEG	13.220
MAG_INCL_RAB	RAB: Magnetic Dip		DEG	-70.860
MBUTTON_K_FACTO	RAB: Button Medium K Factor			0.004

MBUTTON_R_FACTO	RAB: Button Medium R Factor	----	0.004
OBM	RAB: Oil base Mud	----	NO
ORIENTATION_RM	Rab Image Orientation	----	NORTH
RABBDA0	RAB: Button Deep A0 Coeff	----	-0.102
RABBDA1	RAB: Button Deep A1 Coeff	----	0.090
RABBDA2	RAB: Button Deep A2 Coeff	----	-0.038
RABBDA3	RAB: Button Deep A3 Coeff	----	0.008
RABBDA4	RAB: Button Deep A4 Coeff	----	-0.001
RABBDA5	RAB: Button Deep A5 Coeff	----	0.000
RABBDMIN	RAB: Button Deep Minimum Value	----	0.038
RABBITA0	RAB: Bit A0 Coeff	----	0.767
RABBITA1	RAB: Bit A1 Coeff	----	-1.026
RABBITA2	RAB: Bit A2 Coeff	----	0.867
RABBITA3	RAB: Bit A3 Coeff	----	-0.361
RABBITA4	RAB: Bit A4 Coeff	----	0.072
RABBITA5	RAB: Bit A5 Coeff	----	-0.005
RABBITMIN	RAB: Bit Minimum Value	----	21.702
RABBMA0	RAB: Button Medium A0 Coeff	----	-0.103
RABBMA1	RAB: Button Medium A1 Coeff	----	0.088
RABBMA2	RAB: Button Medium A2 Coeff	----	-0.036
RABBMA3	RAB: Button Medium A3 Coeff	----	0.007
RABBMA4	RAB: Button Medium A4 Coeff	----	-0.001
RABBMA5	RAB: Button Medium A5 Coeff	----	0.000
RABBMMIN	RAB: Button Medium Minimum Value	----	0.041
RABBSA0	RAB: Button Shallow A0 Coeff	----	-0.113
RABBSA1	RAB: Button Shallow A1 Coeff	----	0.094
RABBSA2	RAB: Button Shallow A2 Coeff	----	-0.038
RABBSA3	RAB: Button Shallow A3 Coeff	----	0.007
RABBSA4	RAB: Button Shallow A4 Coeff	----	-0.001
RABBSA5	RAB: Button Shallow A5 Coeff	----	0.000
RABBSMIN	RAB: Button Shallow Minimum Value	----	0.055
RABDHS	RAB Down Hole Software	----	4.000
RABEC	RAB: Resistivity Env-Cor	----	YES
RABRNGA0	RAB: RING A0 Coeff	----	-0.095
RABRNGA1	RAB: RING A1 Coeff	----	0.084
RABRNGA2	RAB: RING A2 Coeff	----	-0.035
RABRNGA3	RAB: RING A3 Coeff	----	0.007
RABRNGA4	RAB: RING A4 Coeff	----	-0.001
RABRNGA5	RAB: RING A5 Coeff	----	0.000
RABRNGMIN	RAB: Ring Minimum Value	----	1.159
RAB_BIT_ECAL	Bit Resistivity for ECAL_RAB?	----	YES
RAB_BIT_INVERSI	Input Bit Resistivity for Inversion? (Recommended at the bit)	----	YES
RAB_CALIPER_CAL	Compute ECAL_RAB?	----	NO
RAB_DATA_FIX	RAB: Create A Corrected RAB Time Data File	----	NO
RAB_DATA_LTB	RAB: Create An RAB LTB Data File	----	NO
RAB_DEEPBTN_ECA	Deep Button Resistivity for ECAL_RAB?	----	YES
RAB_DEEPBTN_INV	Input Deep Button Resistivity for Inversion?	----	YES
RAB_INVERSION	Perform Rt Inversion?	----	NO
RAB_INVERSION_B	**RAB Bit Sensor Weight for Inversion[0,1]**	**----**	**1.000**
RAB_INVERSION_B	Ending Depth for GR Cutoff in Zone1 (default through the whole well)	M	30480.000
RAB_INVERSION_B	Ending Depth of Zone10	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone2	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone3	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone4	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone5	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone6	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone7	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone8	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone9	M	-304.571
RAB_INVERSION_C	Continuity Multiplier[0,1]	----	0.500
RAB_INVERSION_D	RAB Deep Button Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_D	RAB inversion for Dh?	----	YES
RAB_INVERSION_D	RAB inversion for Di?	----	YES
RAB_INVERSION_G	GR Cutoff for Shale Formation	----	75.000
RAB_INVERSION_G	GR Cutoff for Shale Formation in Zone1(default through the whole well)	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone10	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone2	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone3	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone4	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone5	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone6	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone7	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone8	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone9	GAPI	75.000
RAB_INVERSION_M	RAB Medium Button Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_R	Resistivity Cutoff for Shale Formation	OHMM	2.000
RAB_INVERSION_R	Resistive Invasion Allowed	----	NO
RAB_INVERSION_R	RAB Ring Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_R	RAB inversion for Rmud?	----	NO
RAB_INVERSION_R	RAB inversion for Rt?	----	YES
RAB_INVERSION_R	Rt to R-deepest separation penalty multiplier[0,1]	----	0.500
RAB_INVERSION_R	RAB inversion for Rxo?	----	YES
RAB_INVERSION_S	GR of Clean Sand Formation	----	-999.250
RAB_INVERSION_S	GR of Shale Formation	----	-999.250
RAB_INVERSION_S	RAB Shallow Button Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_T	Inversion Threshold[0, 0.3]	----	0.010
RAB_INVERSION_W	Formation Water Resistivity	OHMM	0.100
RAB_INVERSION_W	Formation Water Temperature	----	150.000
RAB_MEDIUMBTN_E	Medium Button Resistivity for ECAL_RAB?	----	YES
RAB_MEDIUMBTN_I	Input Medium Button Resistivity for Inversion?	----	YES
RAB_QUAD	RAB: Process Quadrant data ?	----	YES
RAB_RIGMODE_ECA	Bit on Bottom?	----	YES
RAB_RING_ECAL	Ring Resistivity for ECAL_RAB?	----	YES
RAB_RING_INVERS	Imput RING Resistivity for Inversion?	----	YES
RAB_SHALLOWBTN_	Shallow Button Resistivity for ECAL_RAB?	----	YES
RAB_SHALLOWBTN_	Input Shallow Button Resistivity for Inversion?	----	YES

RAB_TAB	RAB: Compute TAB ?	----	YES
RAB_TECHLOG	RAB: Generate Techlog ?	----	YES
RAB_TEMP_SELECT	RAB Temperature Selection	----	MEASURED
RAB_TICKS	RAB: Generate Ticks ?	----	YES
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	M	2.777
RINGBHCA	RAB: Ring Borehole A Factor	----	0.299
RINGBHCB	RAB: Ring Borehole B Factor	----	-0.117
RING_KIMP_A	RAB: Ring Impedance Coeff A	----	0.000
RING_KIMP_B	RAB: Ring Impedance Coeff B	----	0.000
RING_K_FACTOR	RAB: Ring K Factor	----	0.107
SBUTTON_K_FACTO	RAB: Button Shallow K Factor	----	0.005
SCALE_IMAGES	RAB: Process Image Data	----	YES
STAB	RAB: Run with Stabilizer	----	YES
TFF_OFFSET_RAB	RAB Time-Frame File Time Offset	S	0.000
TIMEFRAME_FILE_	RAB: Time Frame File Name	S	0.000
TOOLTYPE	RAB: Azimuthal Tool	----	YES
TS_VERSION	RAB: ToolScope Software Version	----	0.000
VRAB6	Rab Tool type (ENP/PILOT)	----	RAB8_ENP
WIN_SIZE_DYN_IM	RAB: Window Size for Scaling Dynamic Image	M	0.914

Schlumberger Drilling & Measurements ID13 Parameter Insert Header Software version 3.0c

IDEAL Version: ID13_0C_13

IDF

Format: Beach VISION Service RM Log **Vertical Scale: 1:200** **Graphics File Created: 02-Dec-2008 15:31**

PIP SUMMARY

Density Samples

Neutron Samples

ARC Gamma Ray Samples

ARC Resistivity Samples

Gamma Ray Samples

Ring Samples

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

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

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

RAB Gamma Ray (GR_RAB)
0 (GAPI) 200

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

ARC Gamma Ray (GR_ARC)
0 (GAPI) 200

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

Bulk Density Correction (DRHO)
-0.25 (G/C3) 0.25

Vertical Hole Diameter (VERD)
6 (IN) 16

Ring Resistivity (RES_RING)
0.2 (OHMM) 200

Photoelectric Factor (PEF)
0 (---- 10

Horizontal Hole Diameter (HORD)
6 (IN) 16

Bit Resistivity (RES_BIT)
0.2 (OHMM) 200

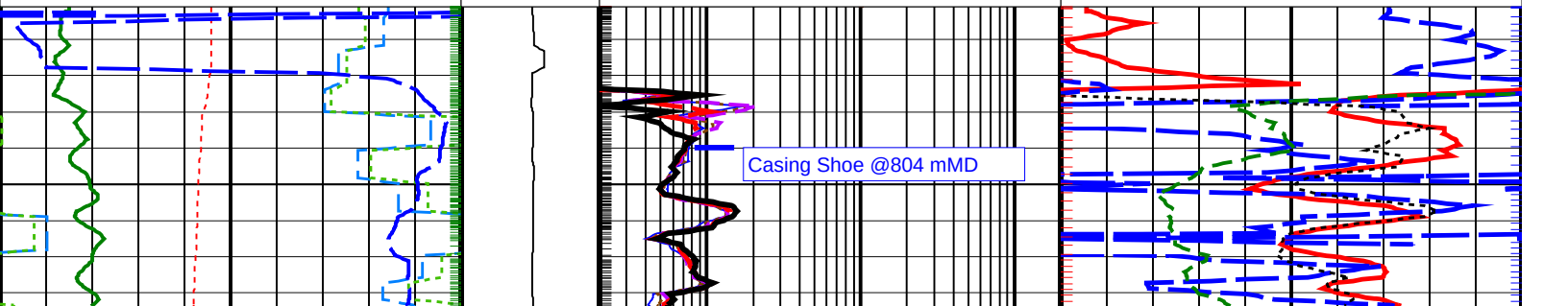
Thermal Neutron Porosity (TNPH)
45 (PU) -15

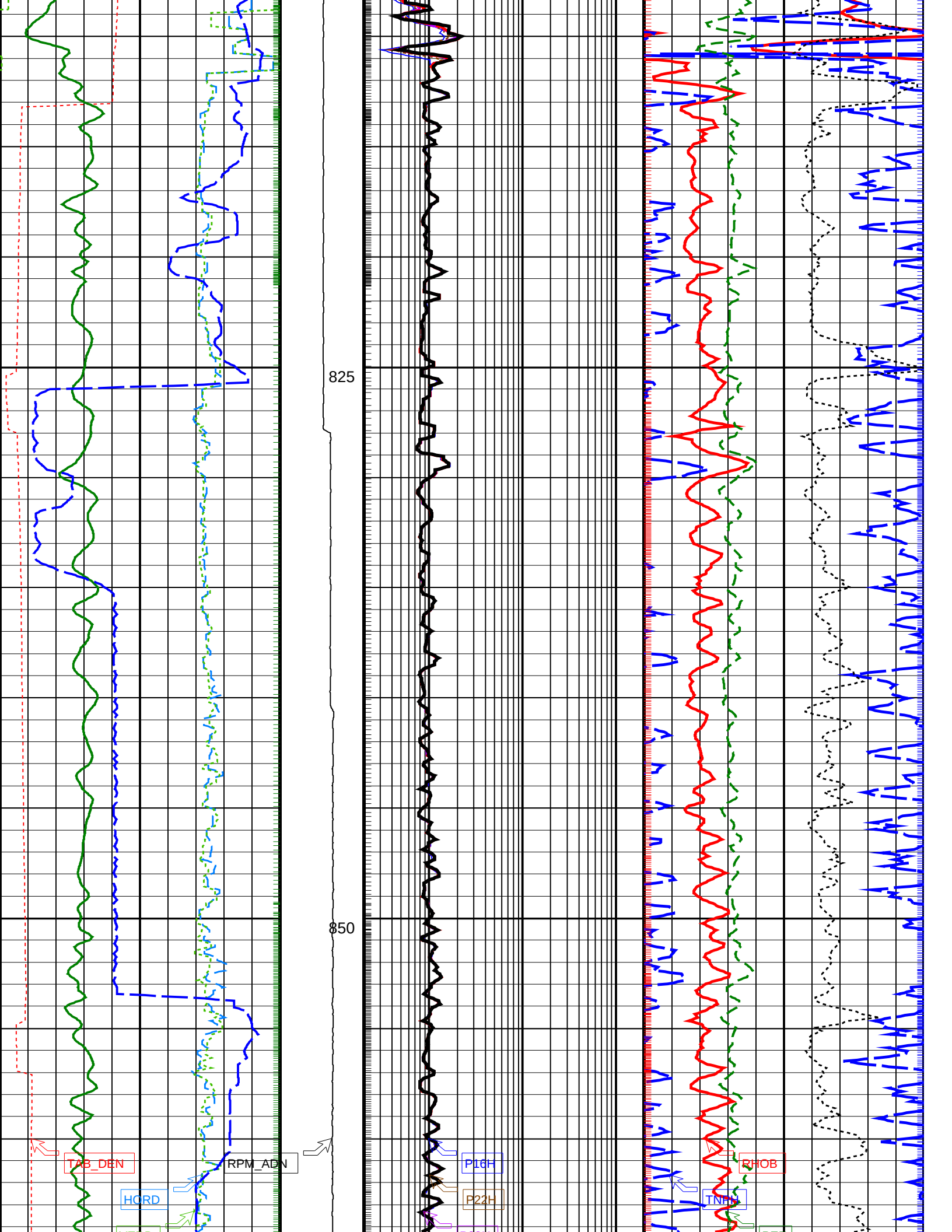
Density Time After Bit (TAB_DEN)
0 (HR) 10

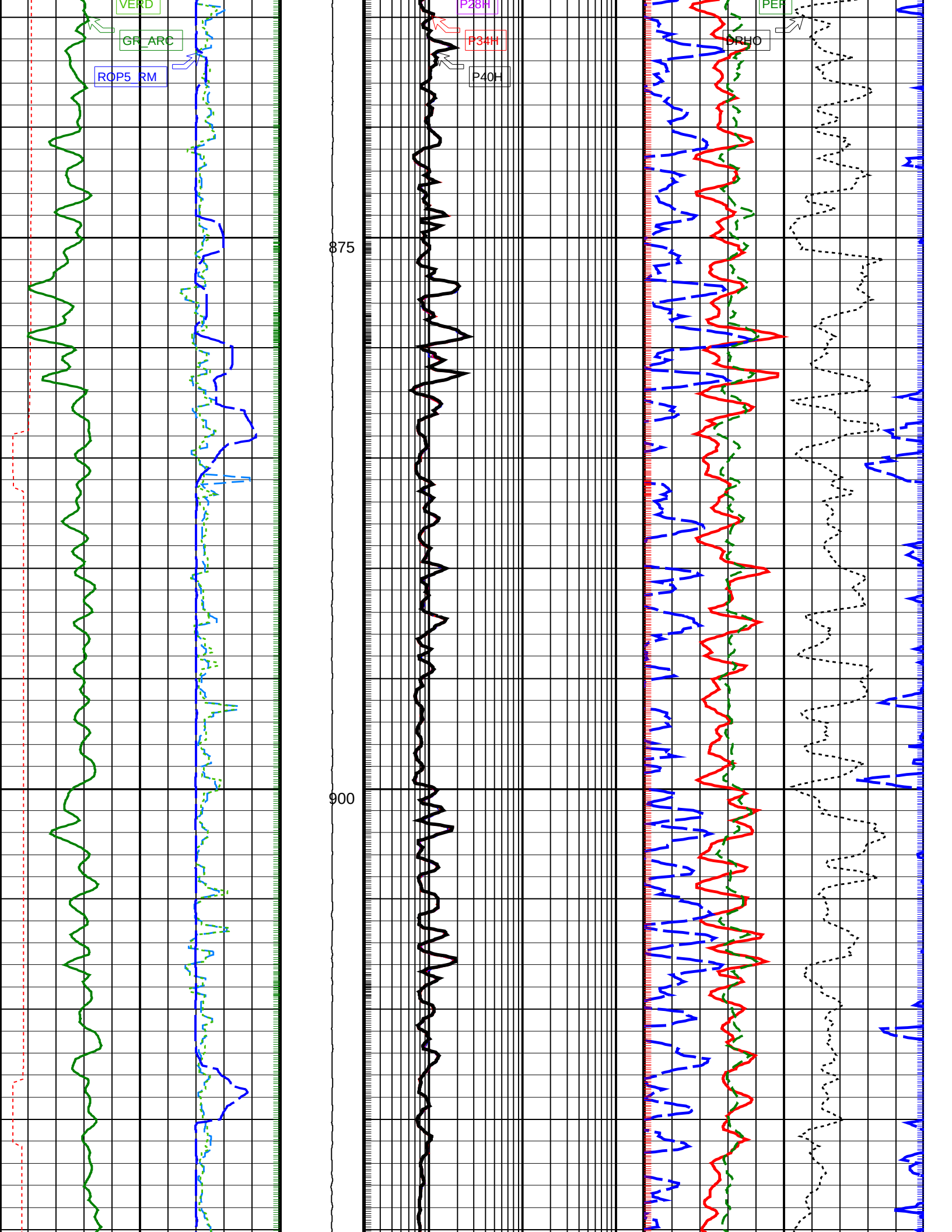
ADN Rotational Speed (RPM_ADN) (RPM)
0 250

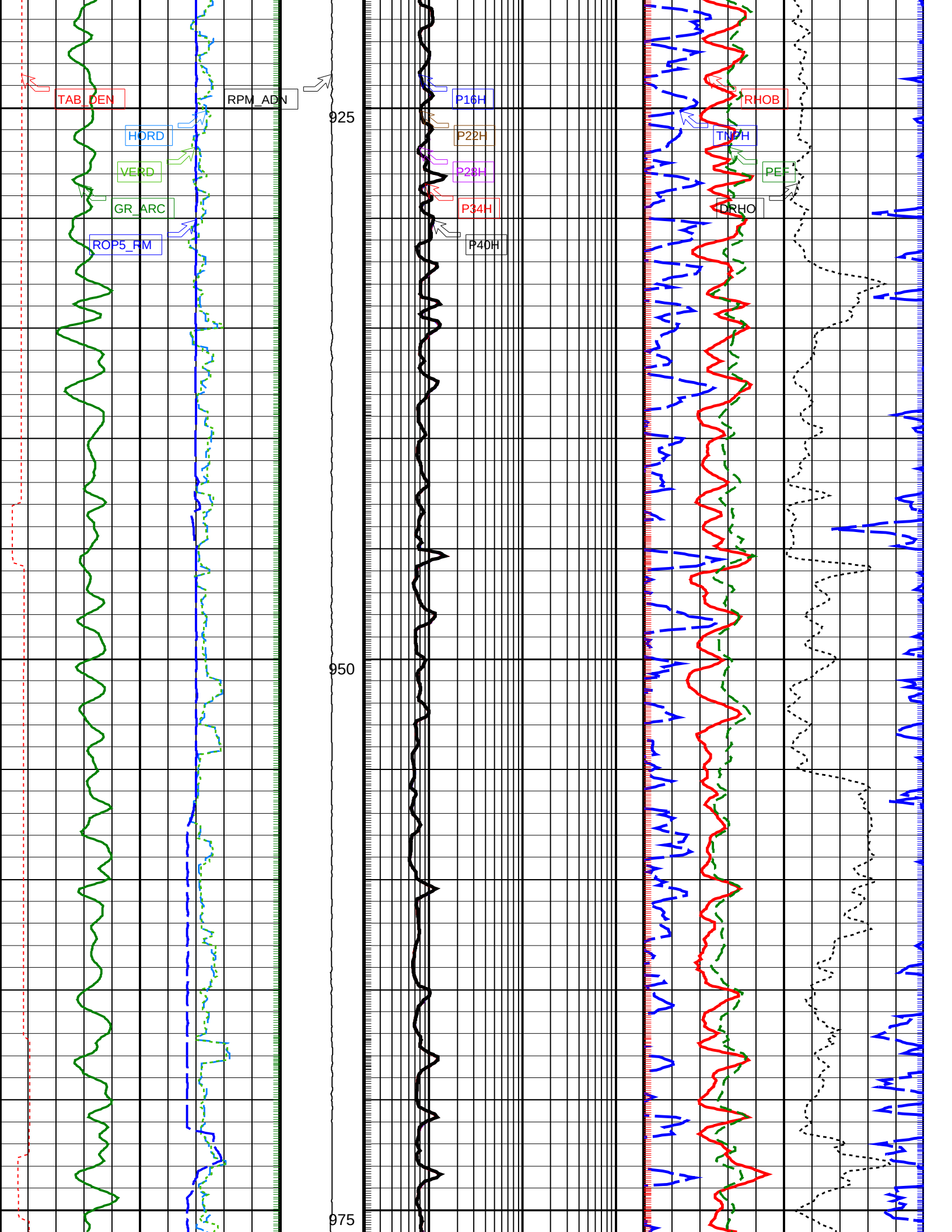
ARC Phase-Shift Resistivity 16-in. at 2 MHz (P16H)
0.2 (OHMM) 200

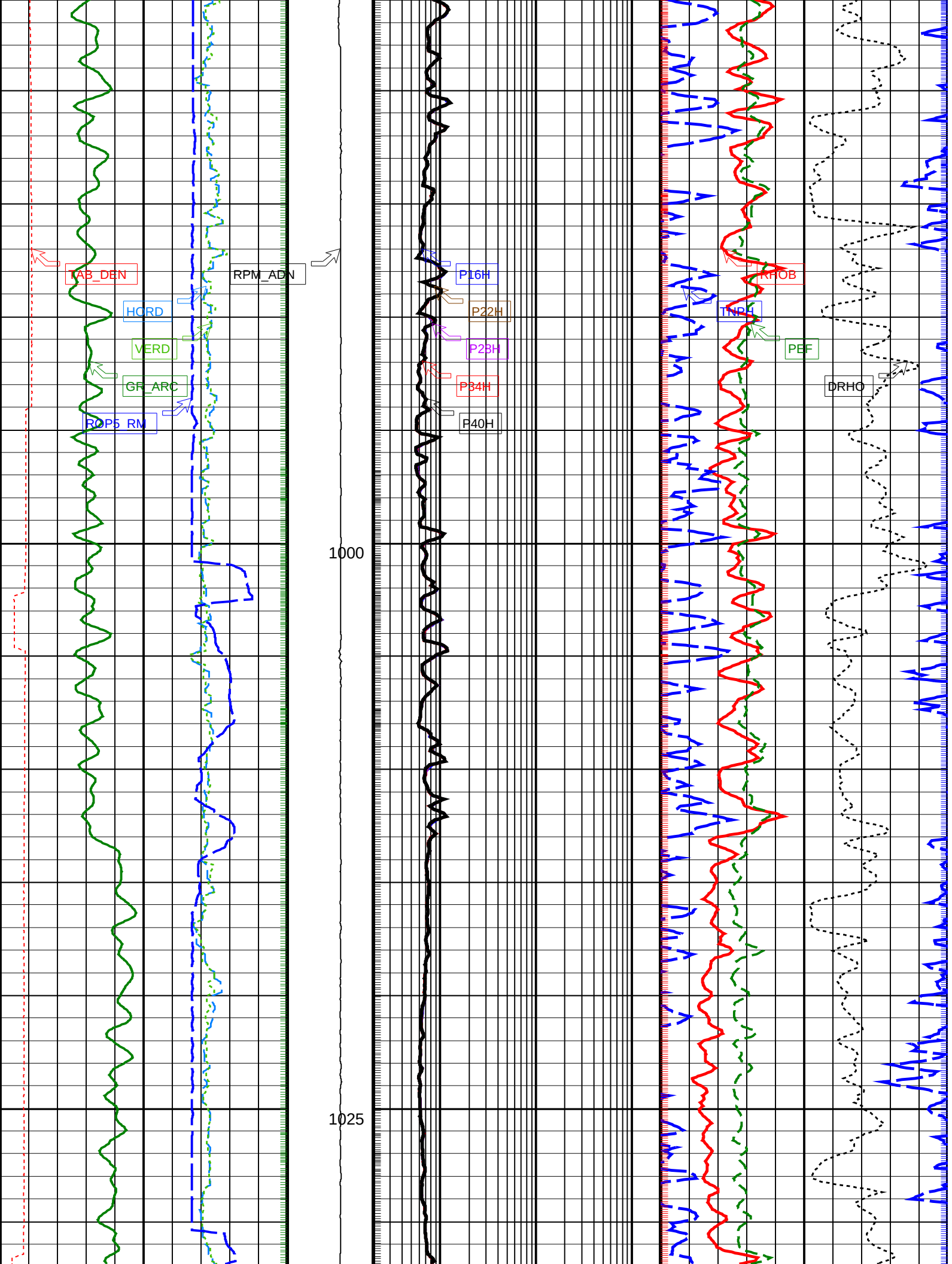
Bulk Density (RHOB)
1.95 (G/C3) 2.95

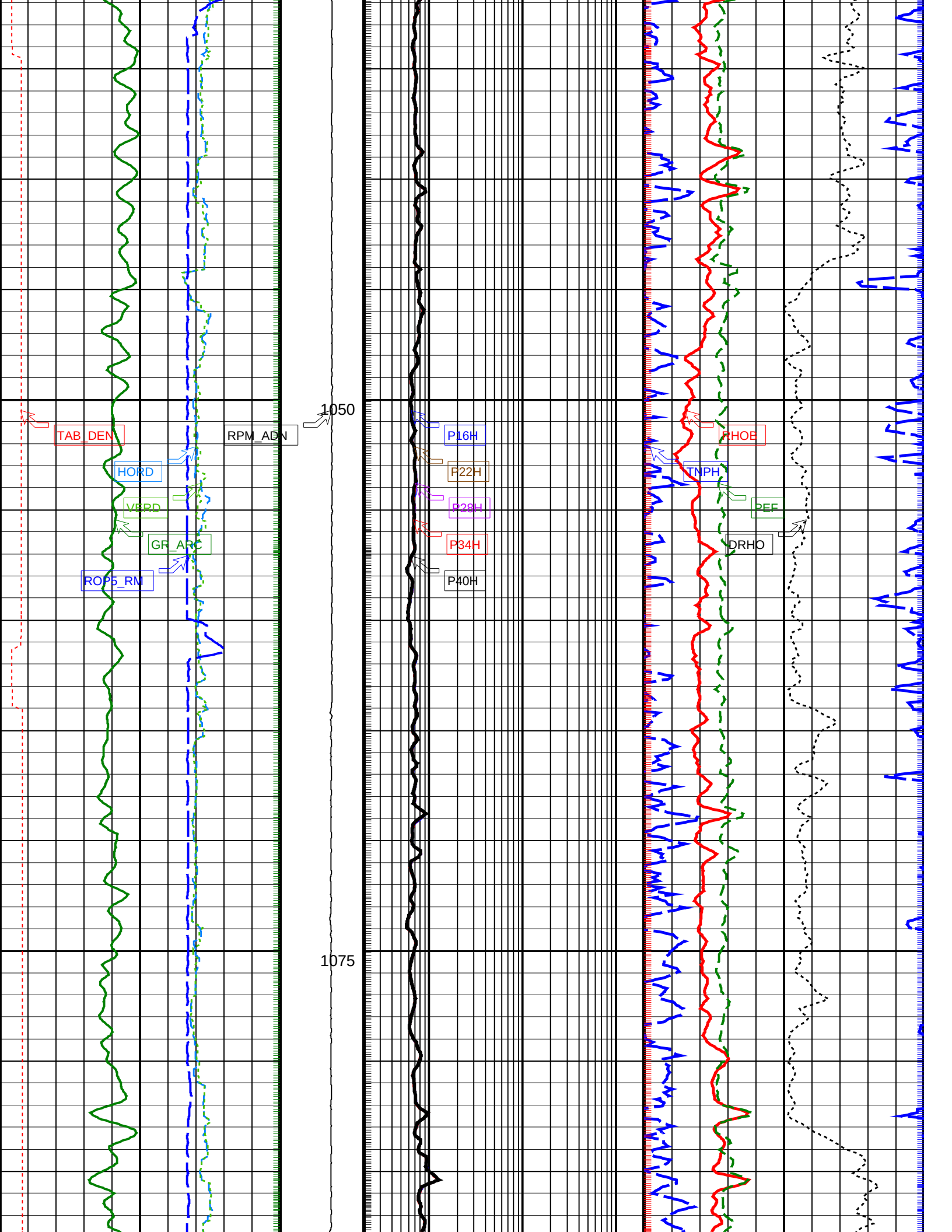


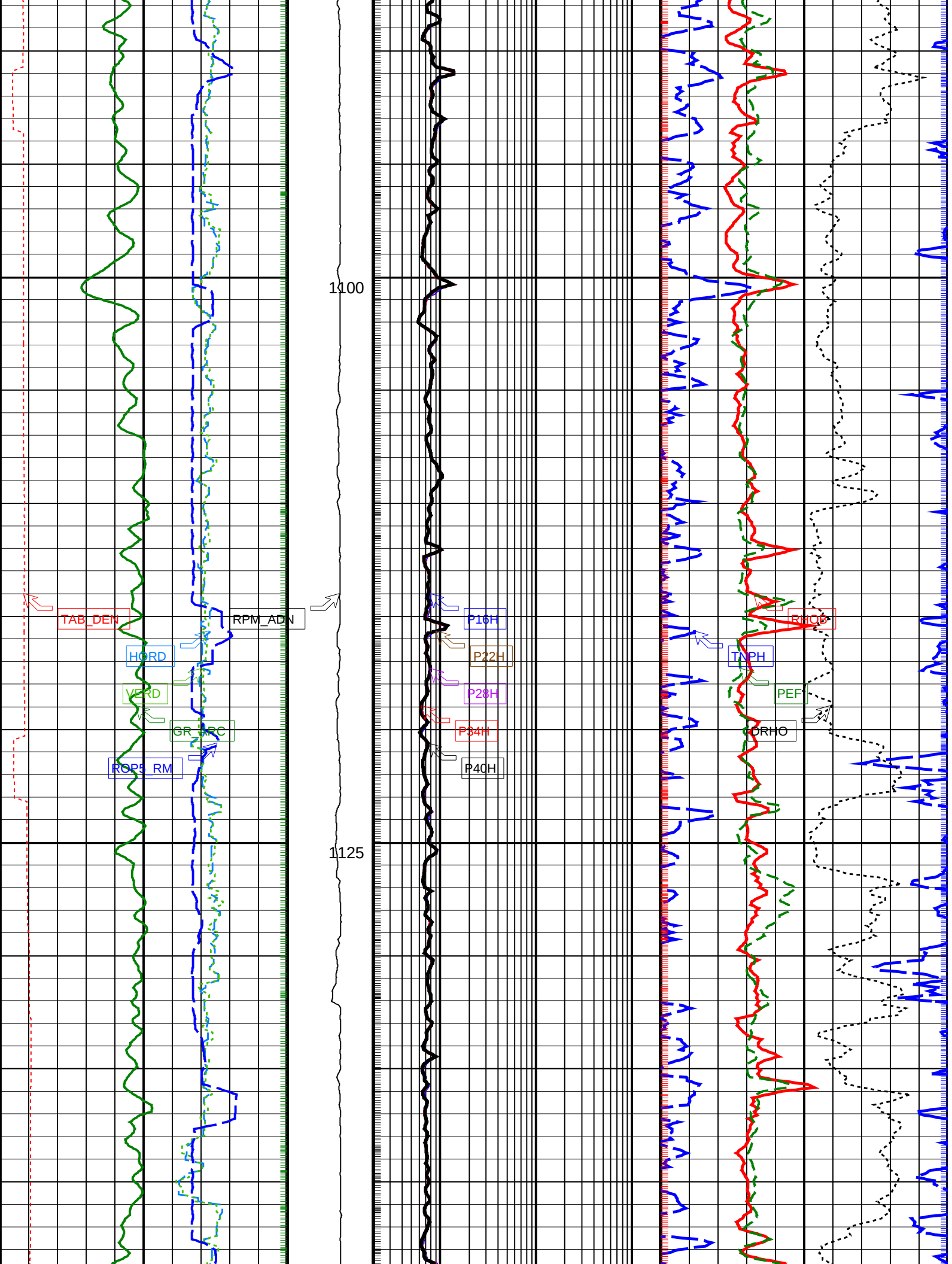

825
850
TAB_DEN
RPM_ADN
HCRD
P16H
P22H
RHOB
TNPH

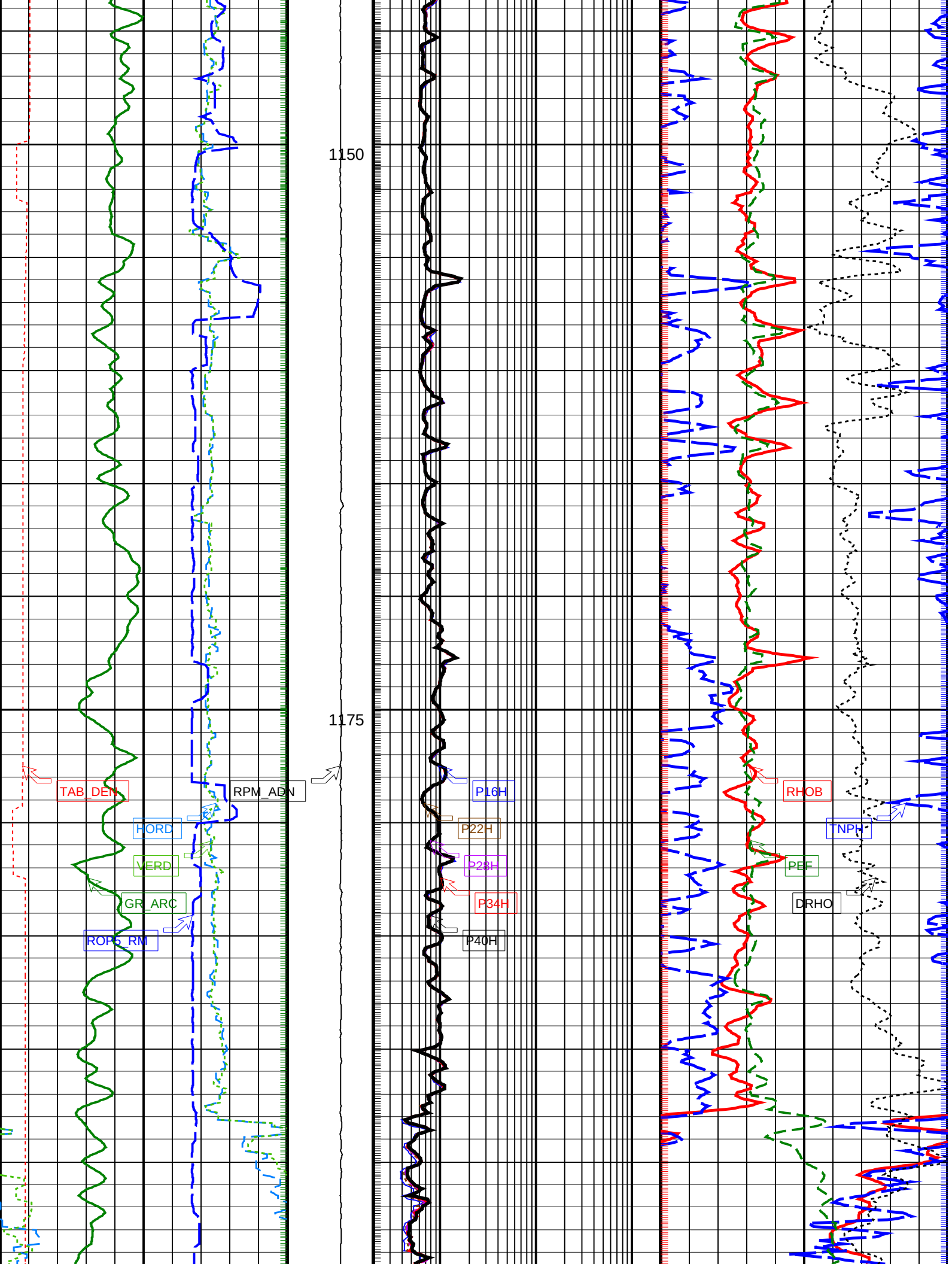

VERD
GR_ARC
ROP5_RM
P28H
P34H
P40H
DRHO
PER
875
900

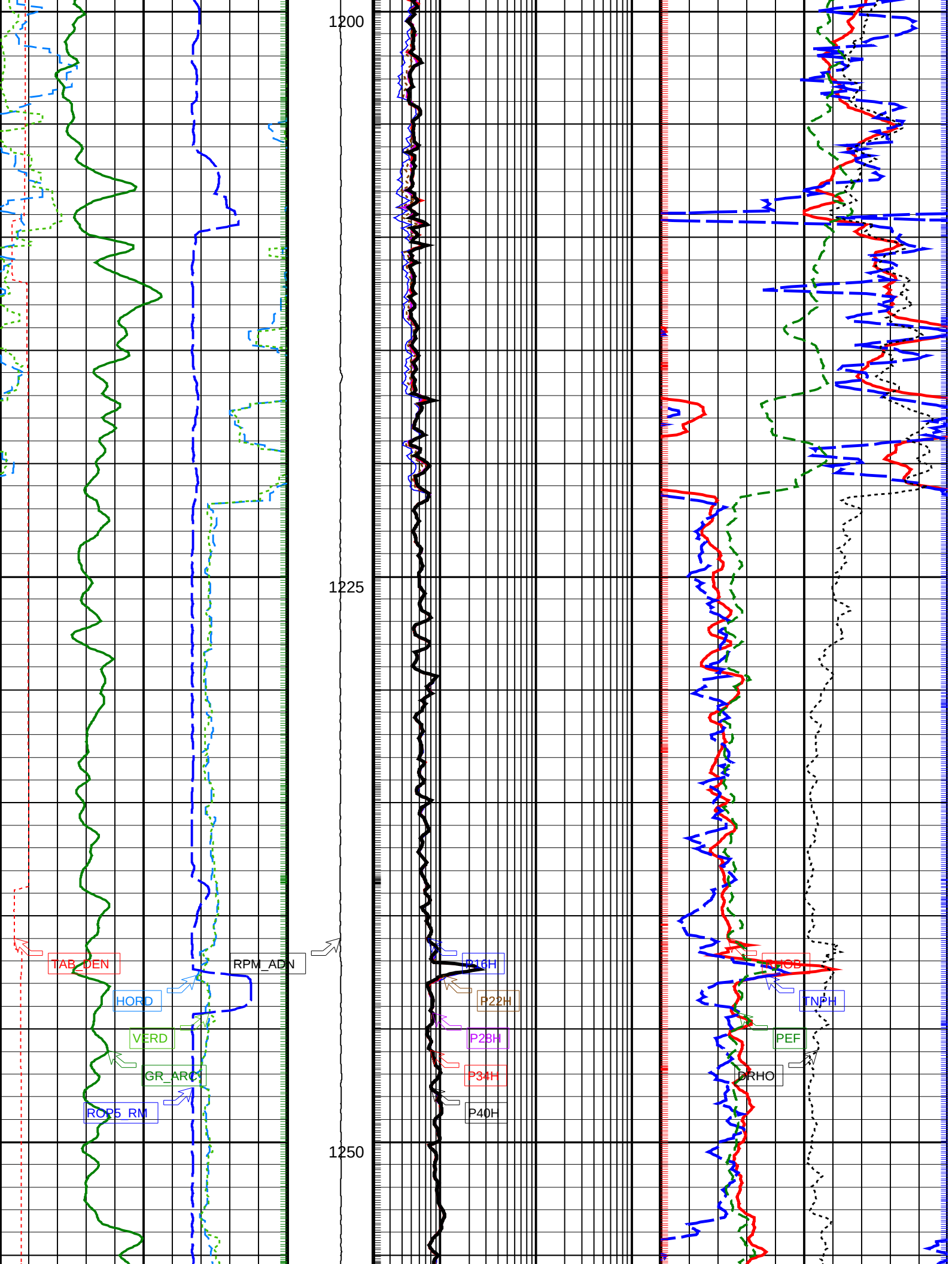

TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROP5_RM
P16H
P22H
P28H
P34H
P40H
RHOB
TNPH
PEF
DRHO
925
950
975

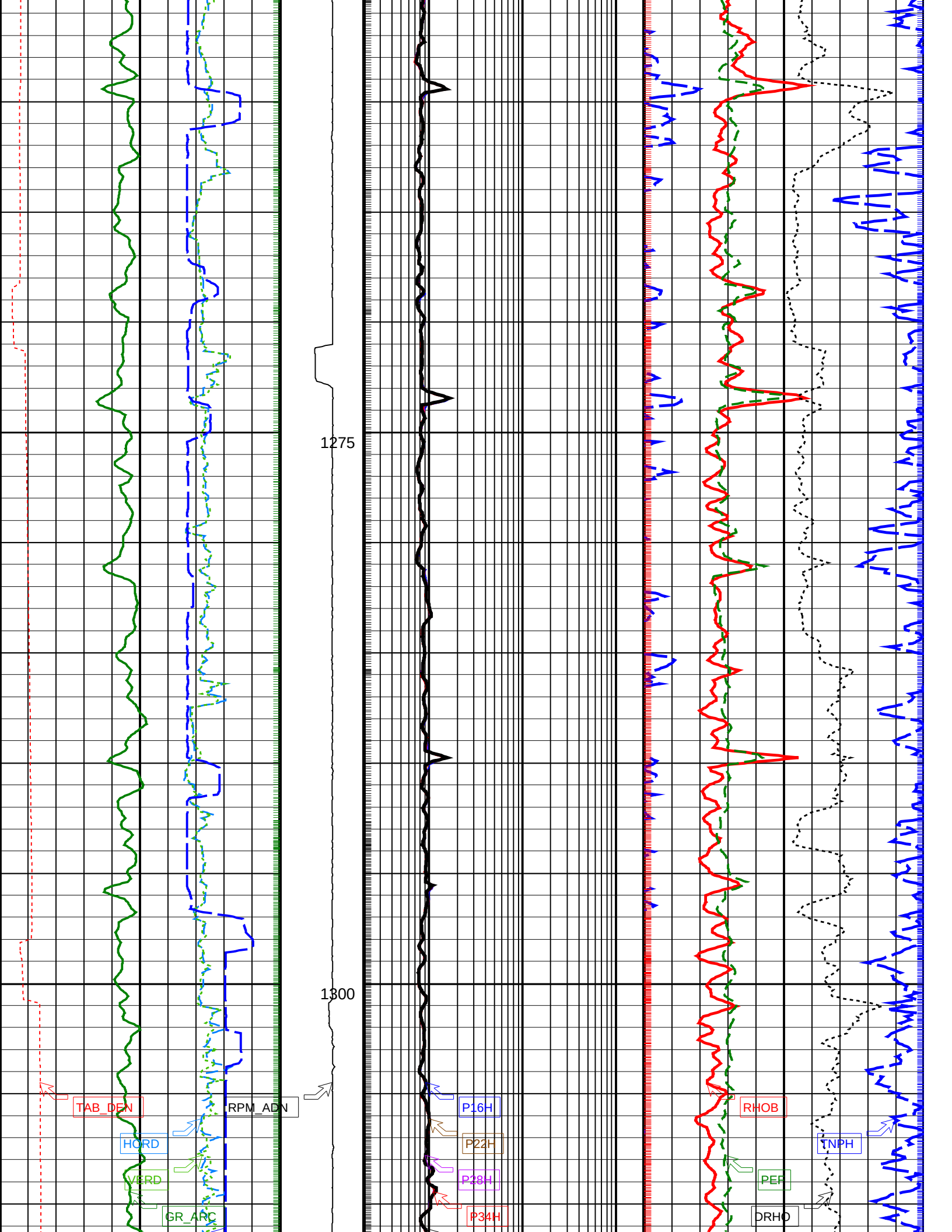

TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROP5_RM
P16H
P22H
P28H
P34H
P40H
RHOB
TNPH
PEF
DRHO
1000
1025

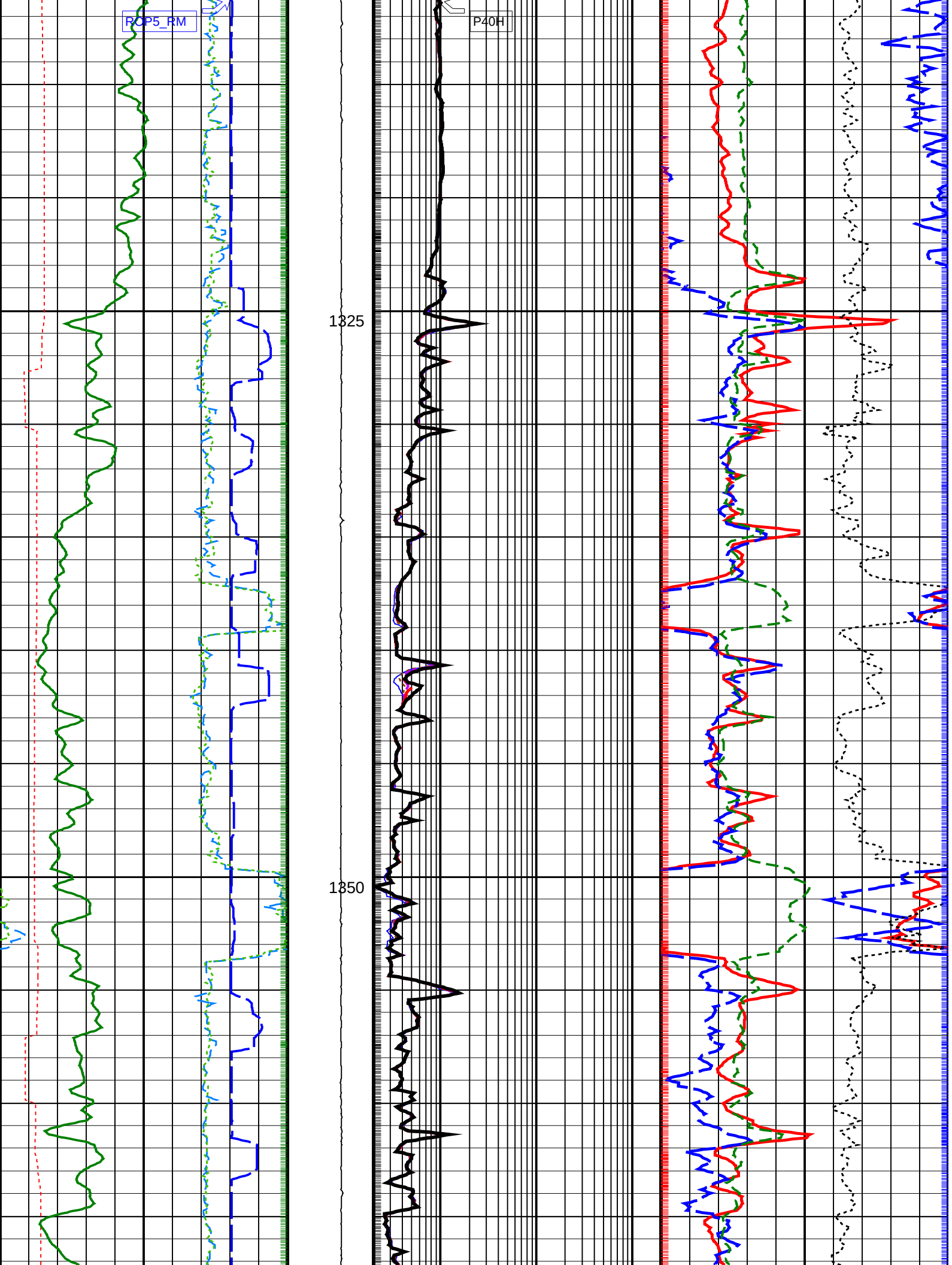

1050
1075
TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROP5_RM
P16H
P22H
P28H
P34H
P40H
RHOB
TNPH
PEF
DRHO

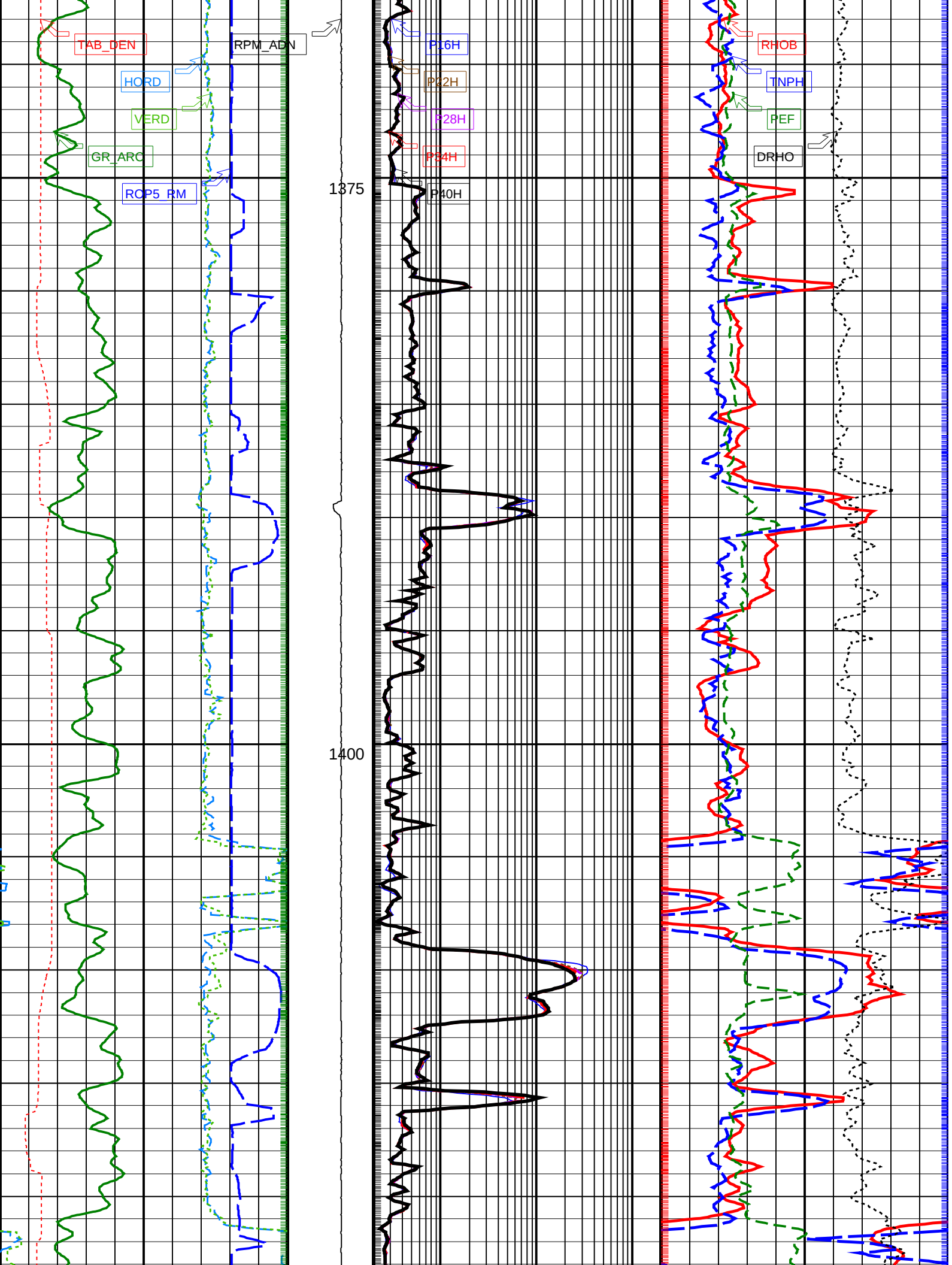

1100
1125
TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROP5_RM
P16H
P22H
P28H
P34H
P40H
RHOB
TNPH
PEF
CORHO

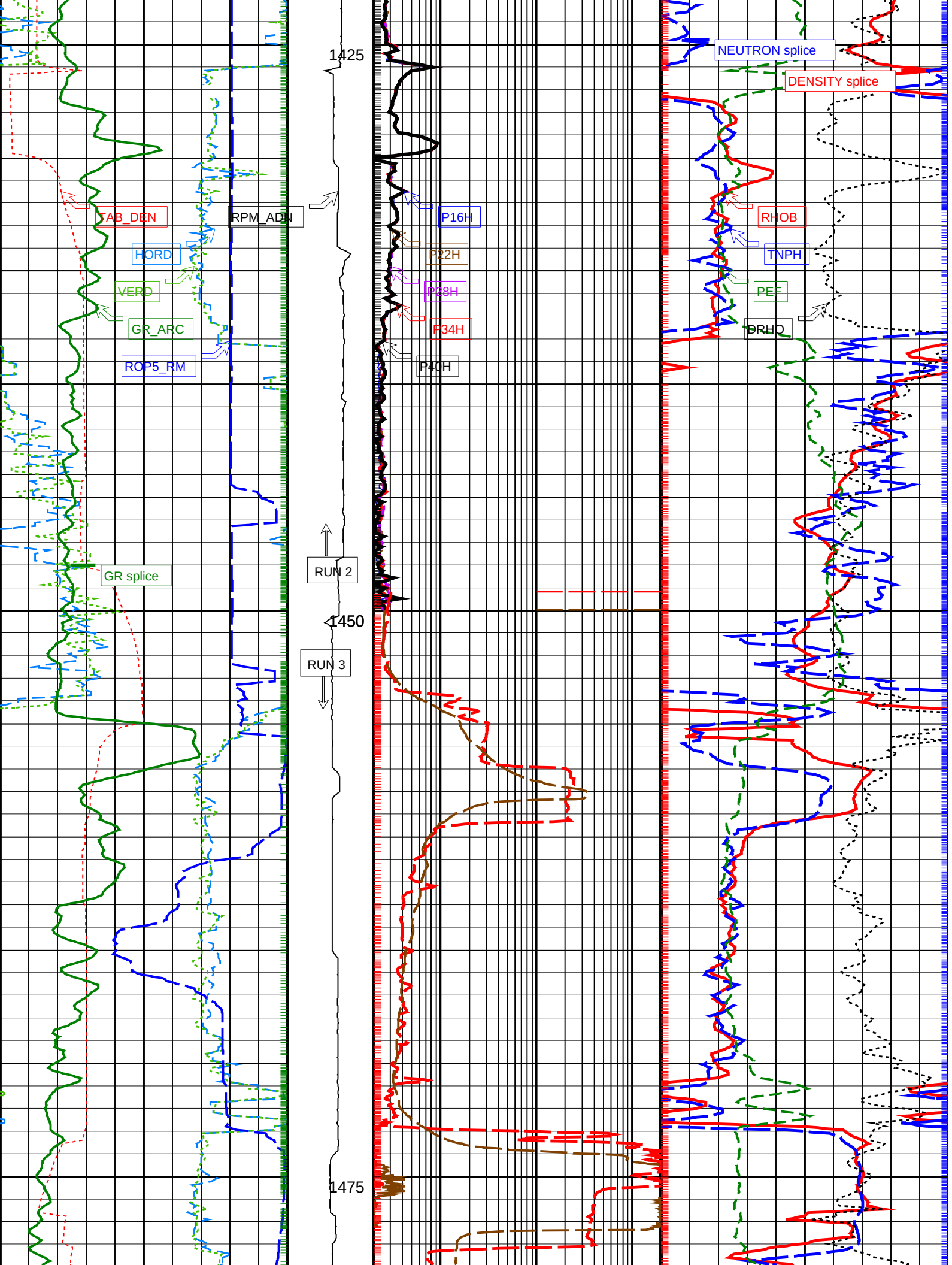

1150
1175
TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROPS_RM
P16H
P22H
P28H
P34H
P40H
RHOB
TNPH
PEF
DRHO

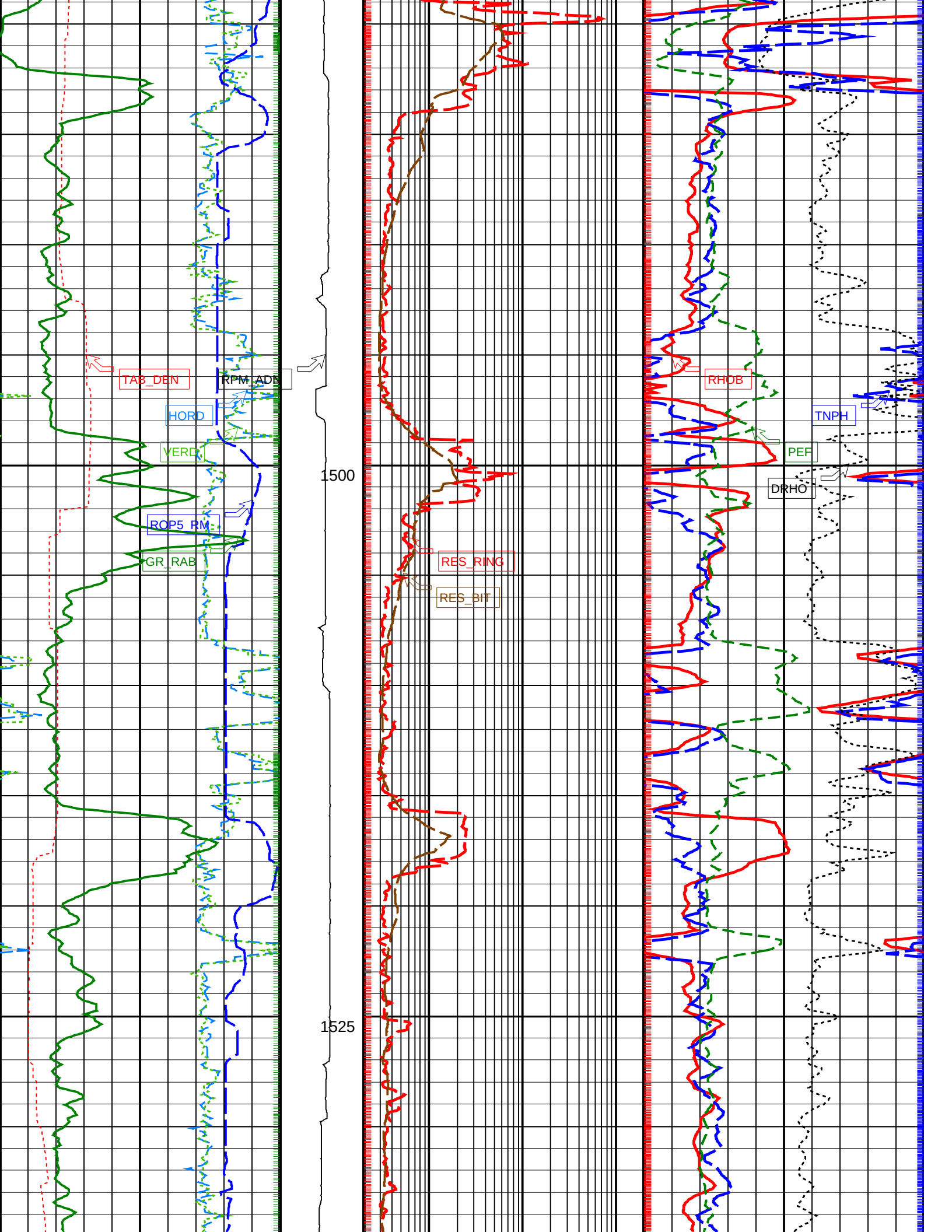

1200
1225
1250
TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROP5_RM
P16H
P22H
P28H
P34H
P40H
TNPH
PEF
DRHO

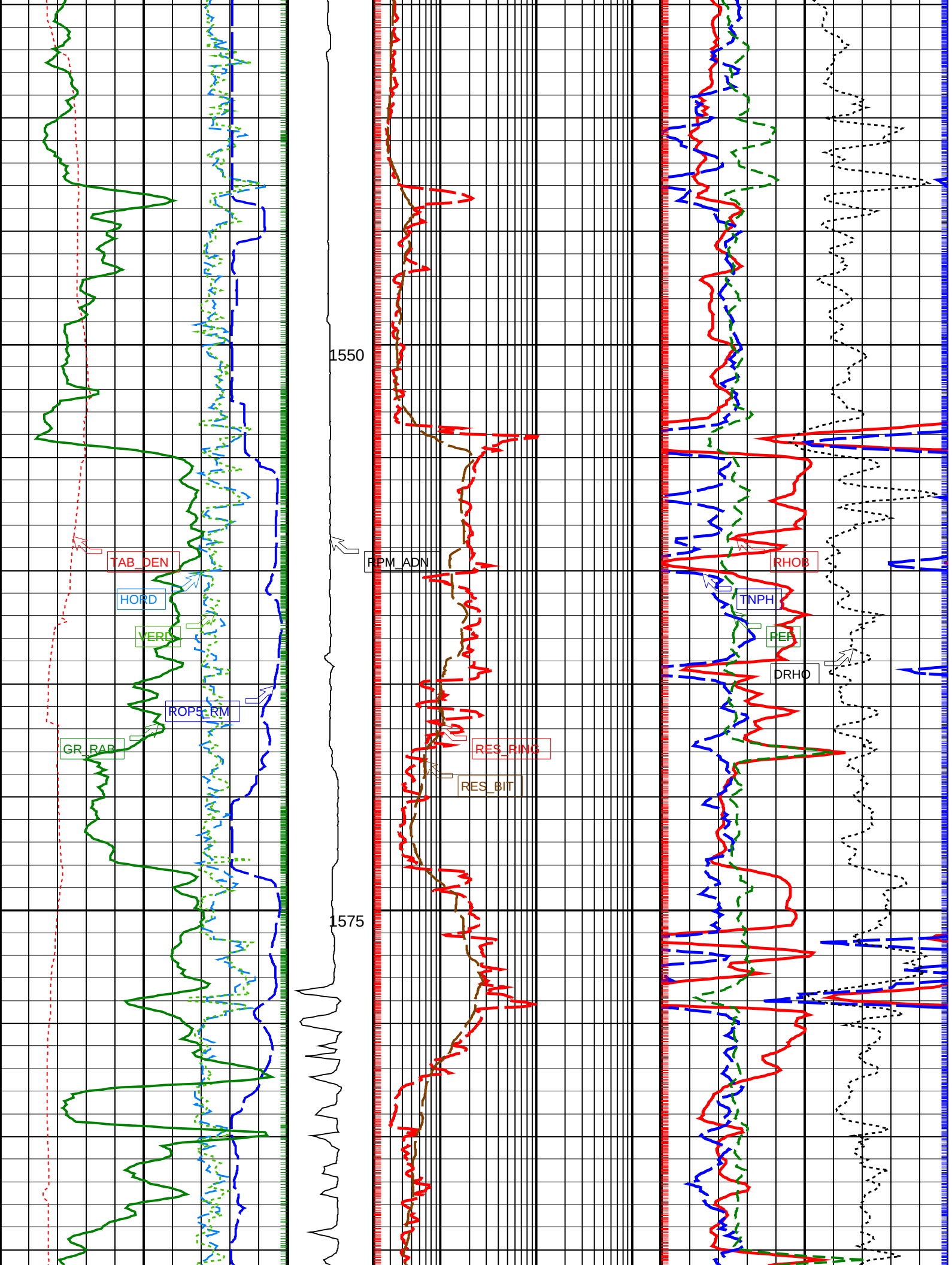

1275
1300
TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
P16H
P22H
P28H
P34H
RHOB
TNPH
PEF
DRHO

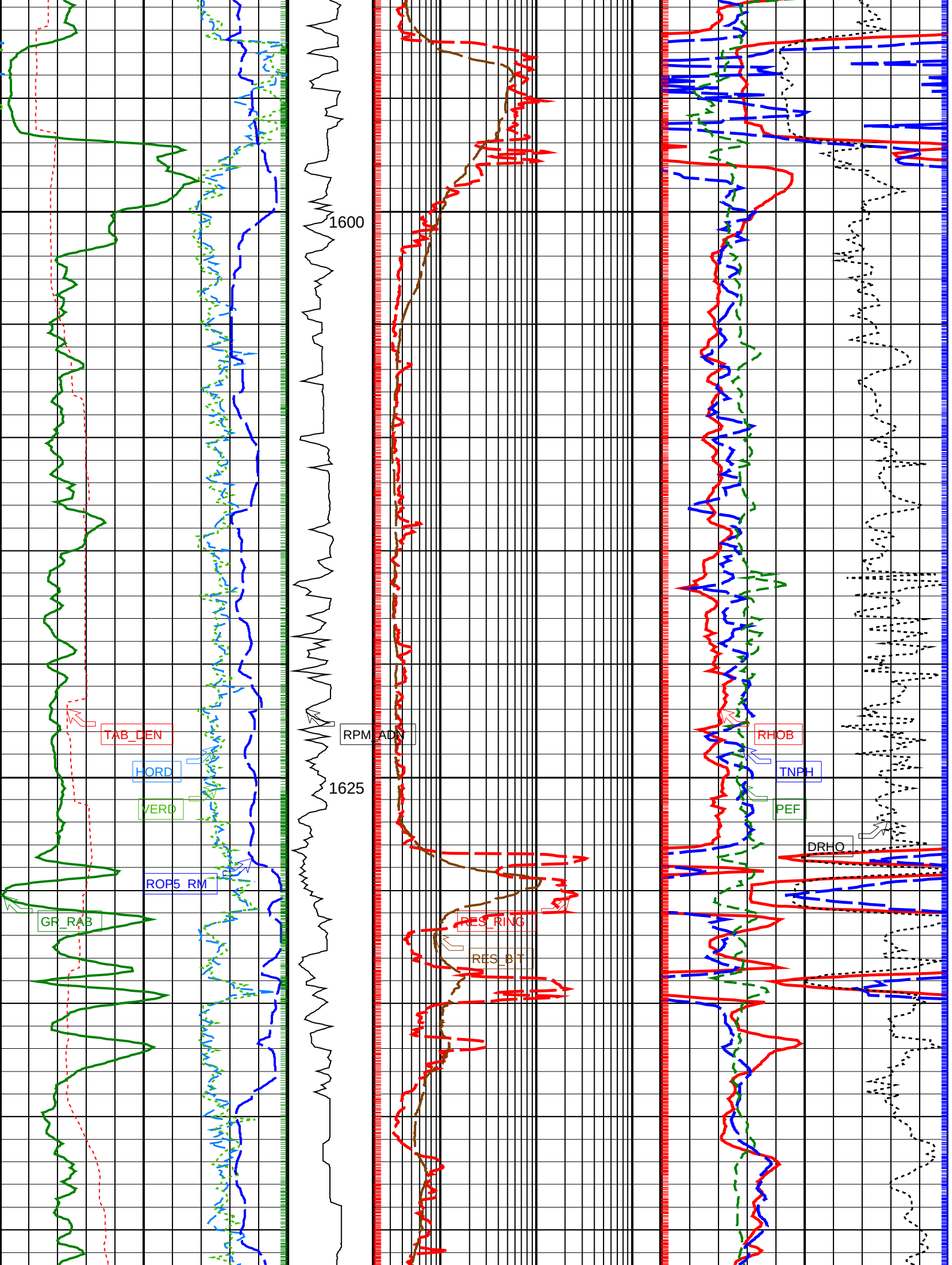

ROP5_RM
P40H
1325
1350

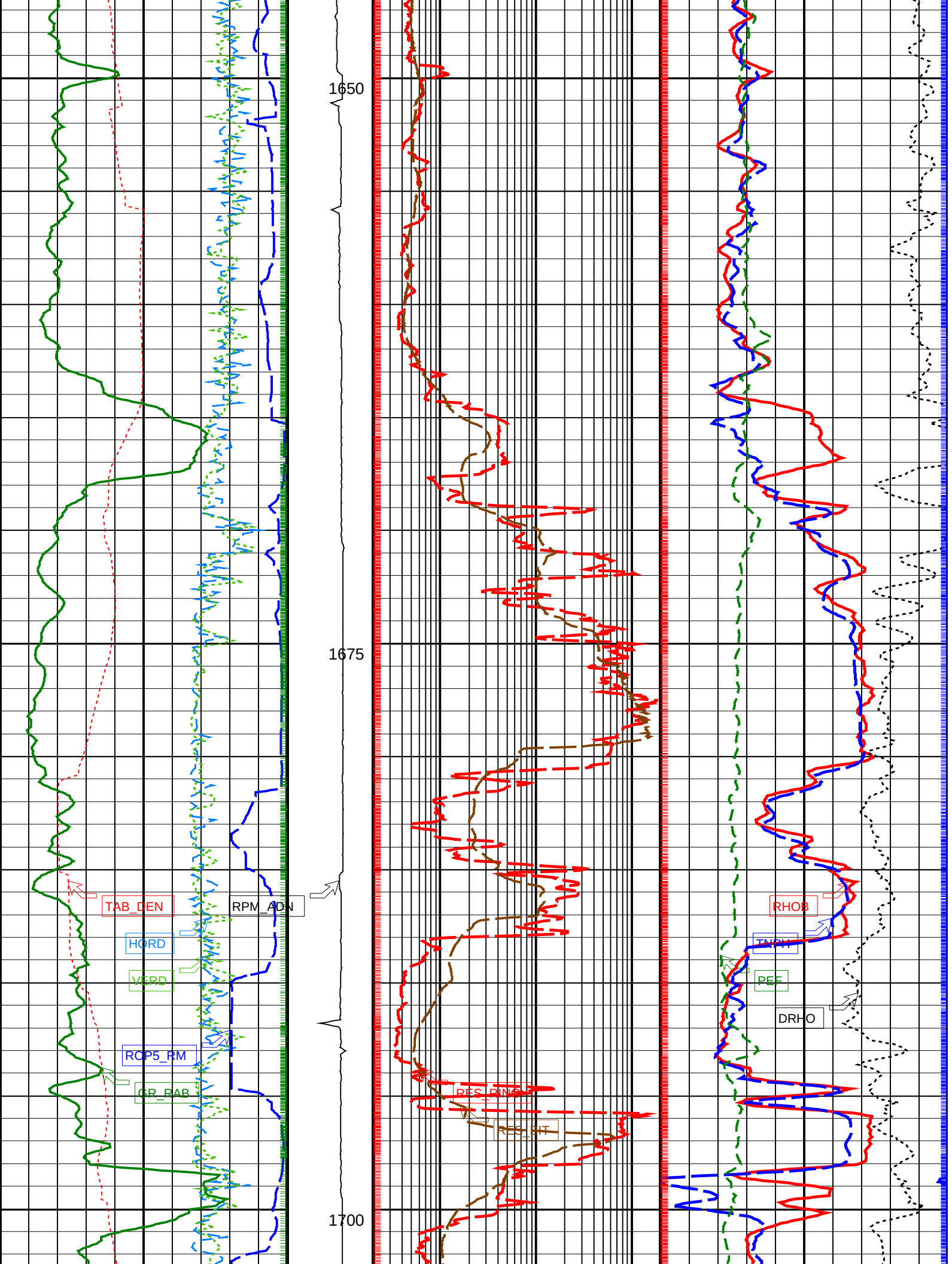

TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROP5_RM
P16H
P22H
P28H
P34H
P40H
RHOB
TNPH
PEF
DRHO
1375
1400

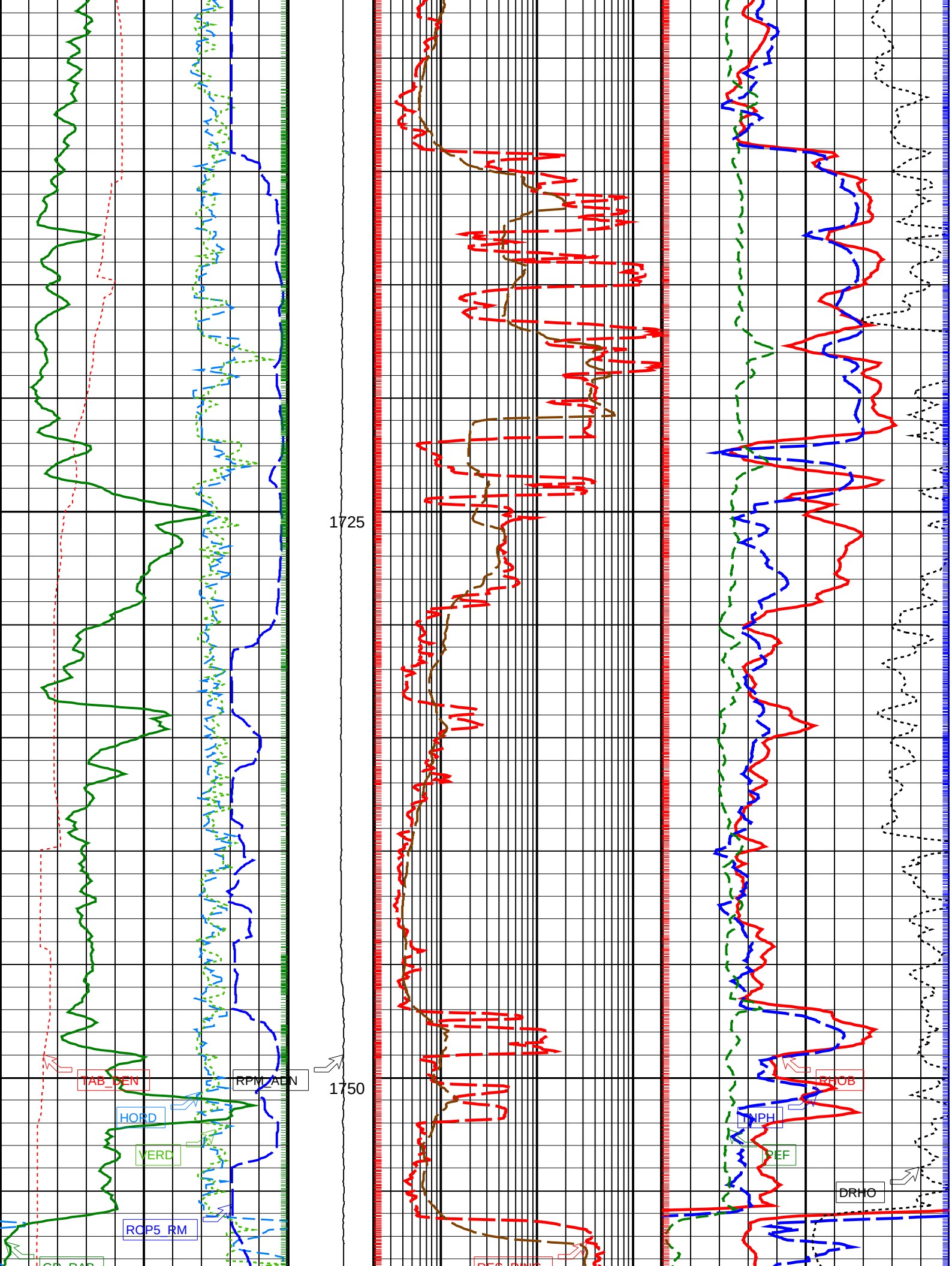

1425
1450
1475
TAB_DEN
RPM_ADN
HORD
VERD
GR_ARC
ROP5_RM
GR splice
P16H
P22H
P28H
P34H
P40H
RUN 2
RUN 3
NEUTRON splice
DENSITY splice
RHOB
TNPH
PEF
DRHO

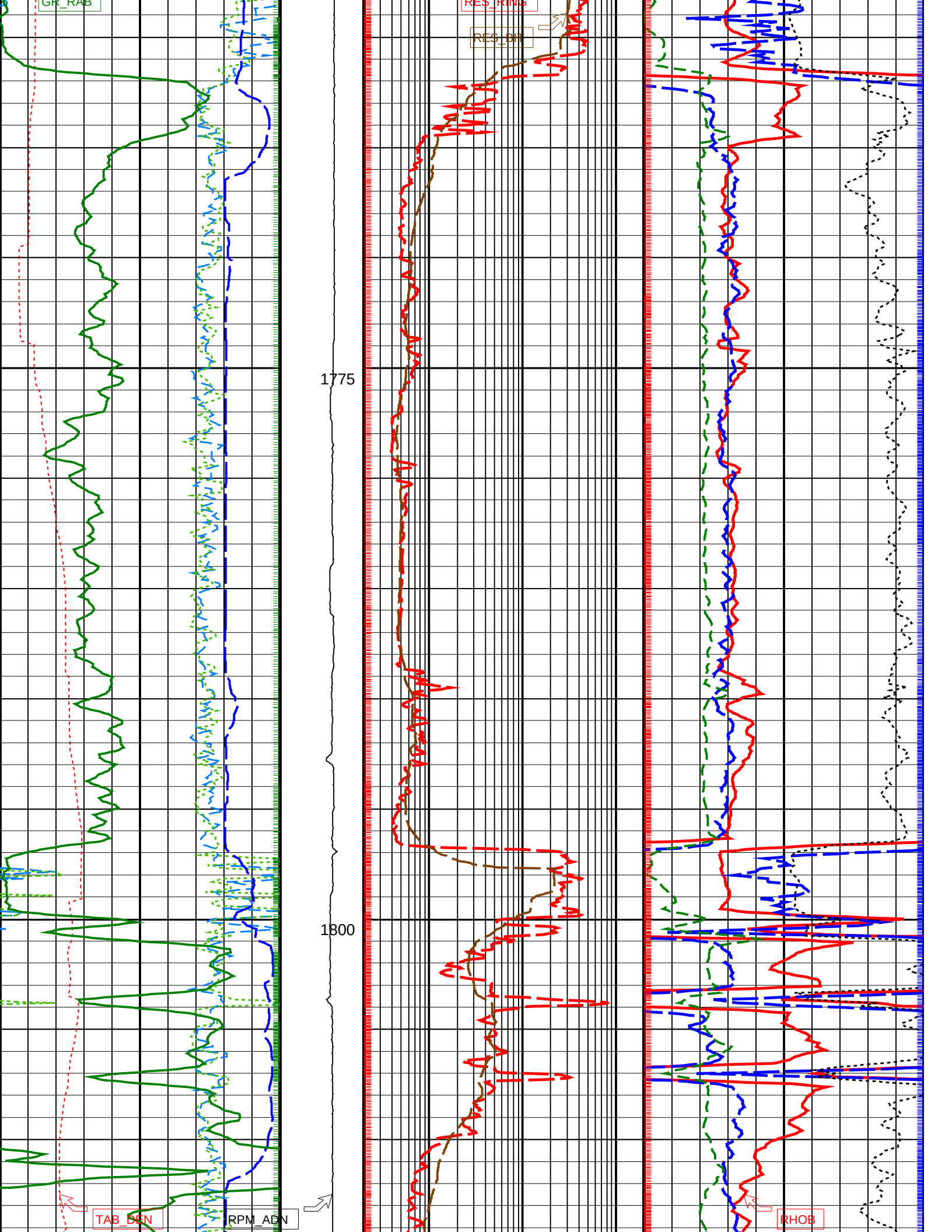

TAB_DEN
RPM_ADN
HORD
VERD
ROP5_RM
GR_RAB
1500
RES_RING
RES_BIT
RHOB
TNPH
PEF
DRHO
1525

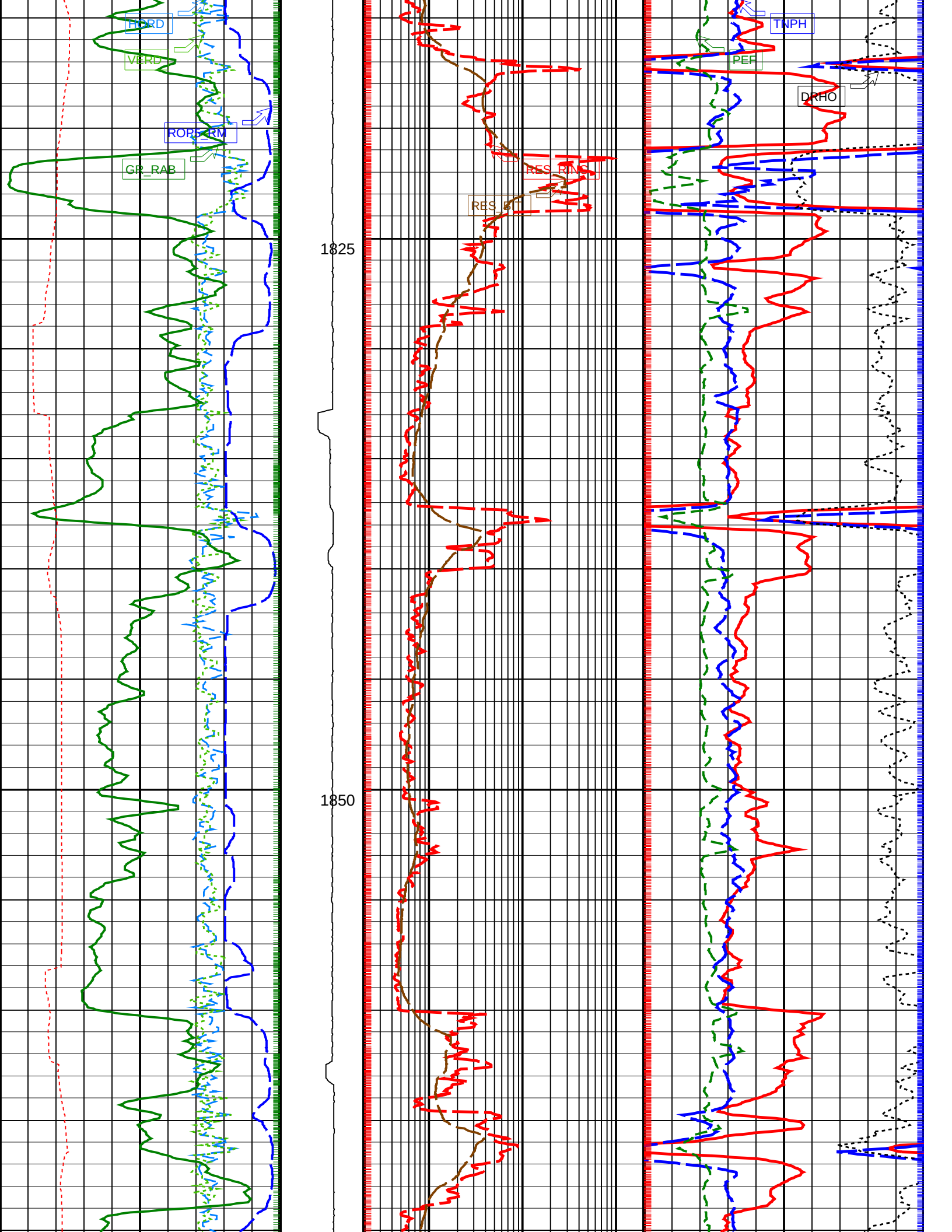

1550
1575
TAB_DEN
HORD
VERD
ROPS_RM
GR_RAB
RPM_ADN
RES_RING
RES_BIT
RHOB
TNPH
PEF
DRHO

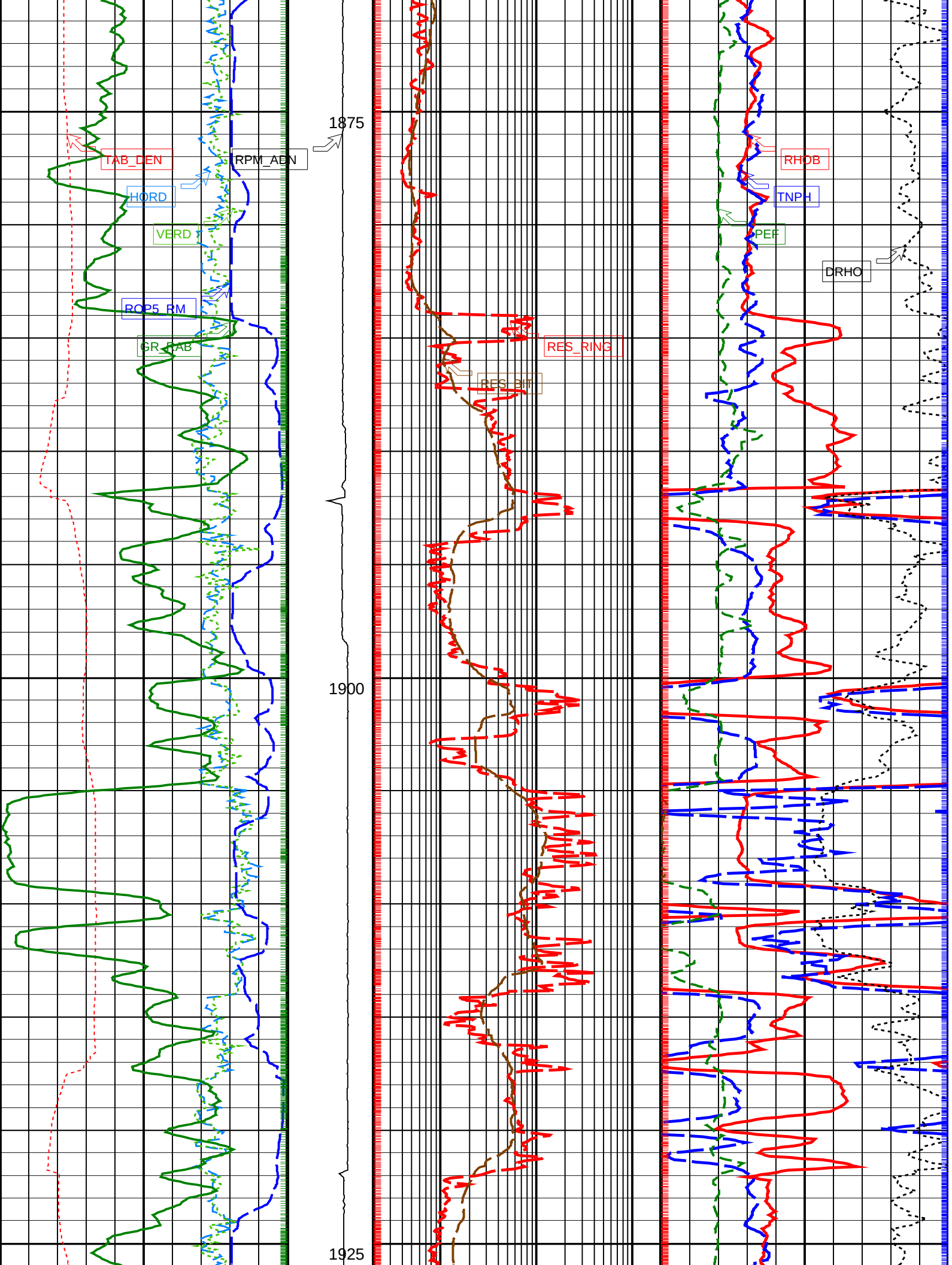

1600
1625
TAB_DEN
HORD
VERD
ROP5_RM
GR_RAB
RPM_ADN
RES_RING
RES_BIT
RHOB
TNPH
PEF
DRHO

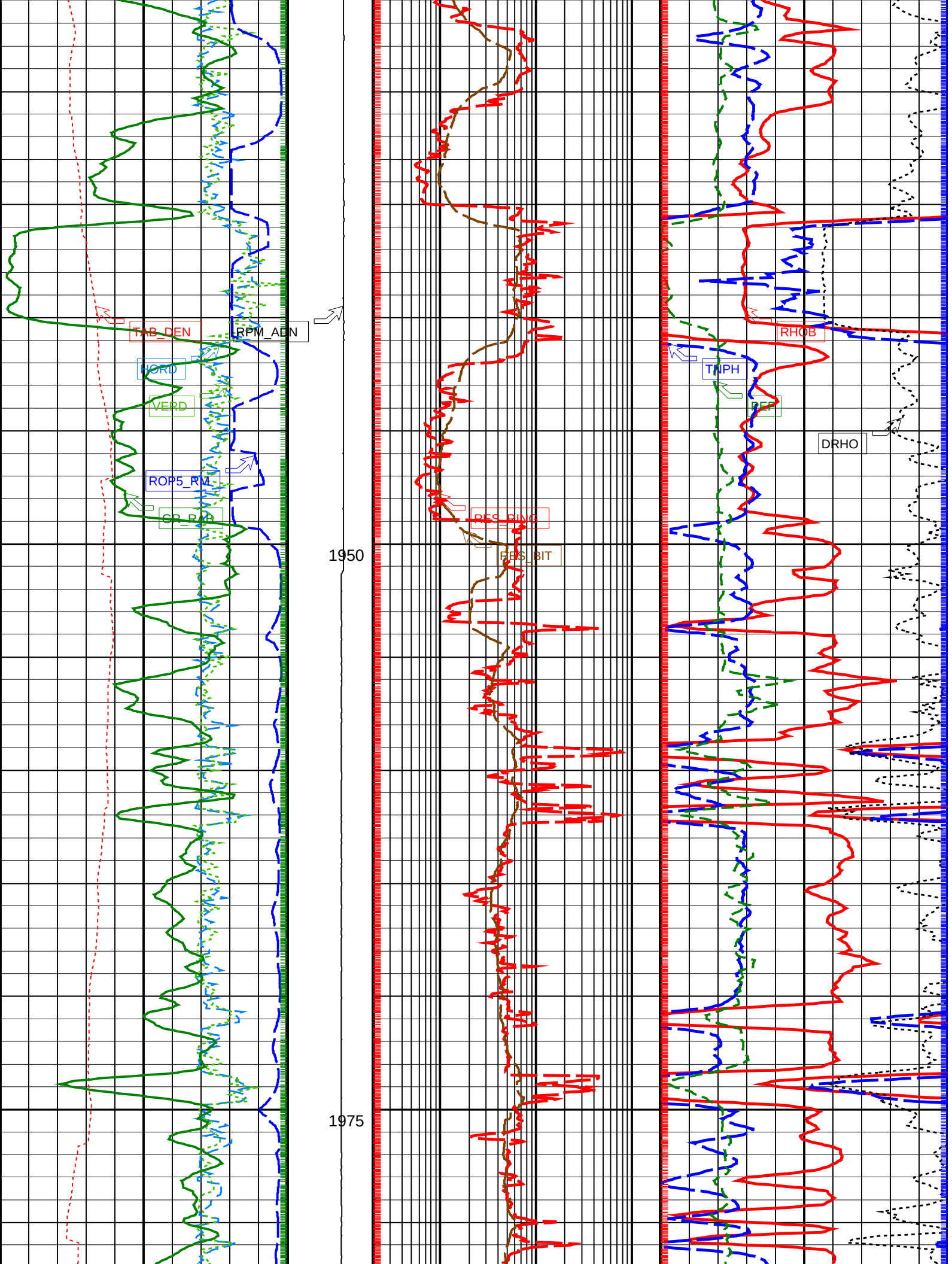

1650
1675
1700
TAB_DEN
RPM_ADN
HORD
VERD
ROP5_RM
GR_RAB
RES_DINC
RES_BIT
RHOB
TNPH
PEF
DRHO

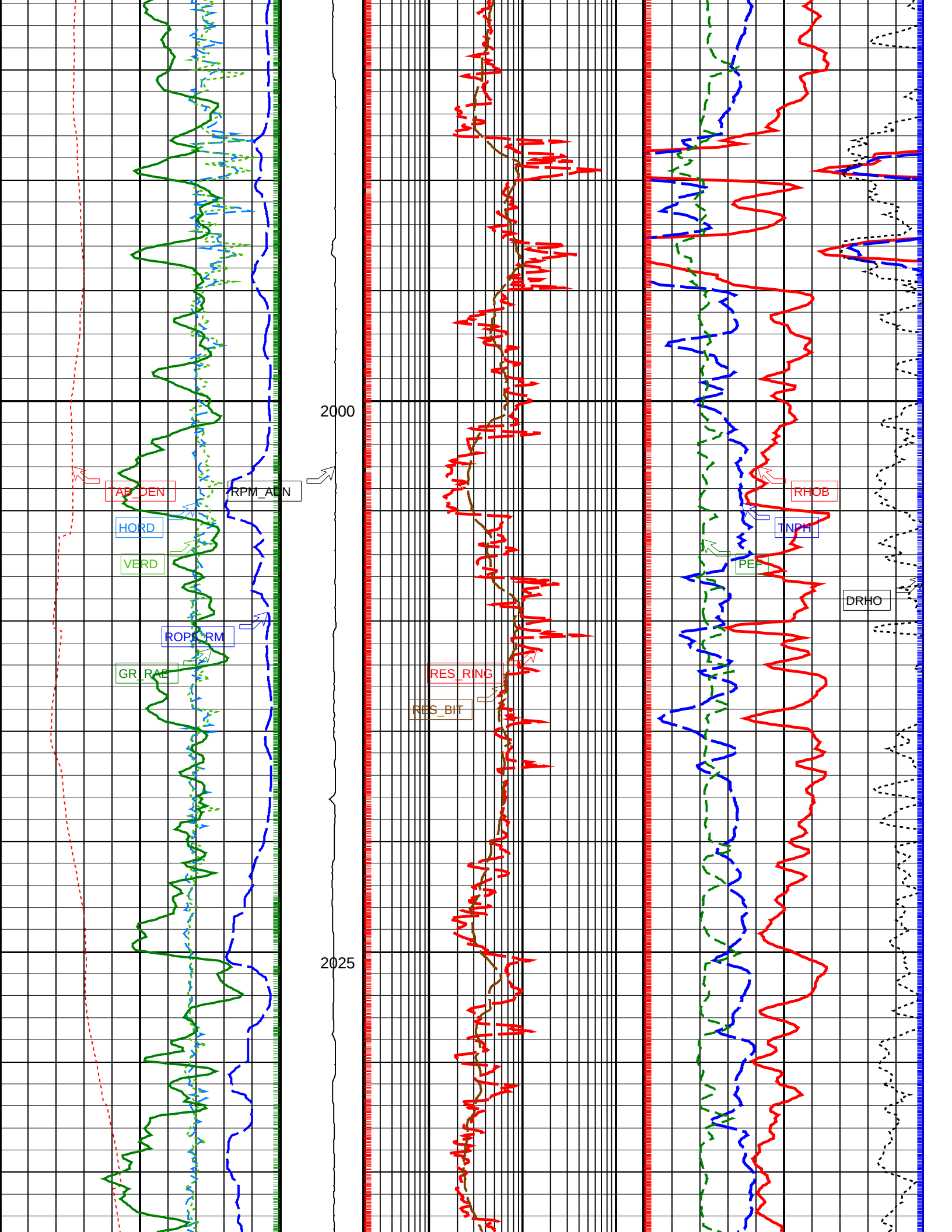

1725
1750
TAB_DEN
RPM_ADN
HORD
VERD
ROP5_RM
RHOB
TNPH
PEF
DRHO

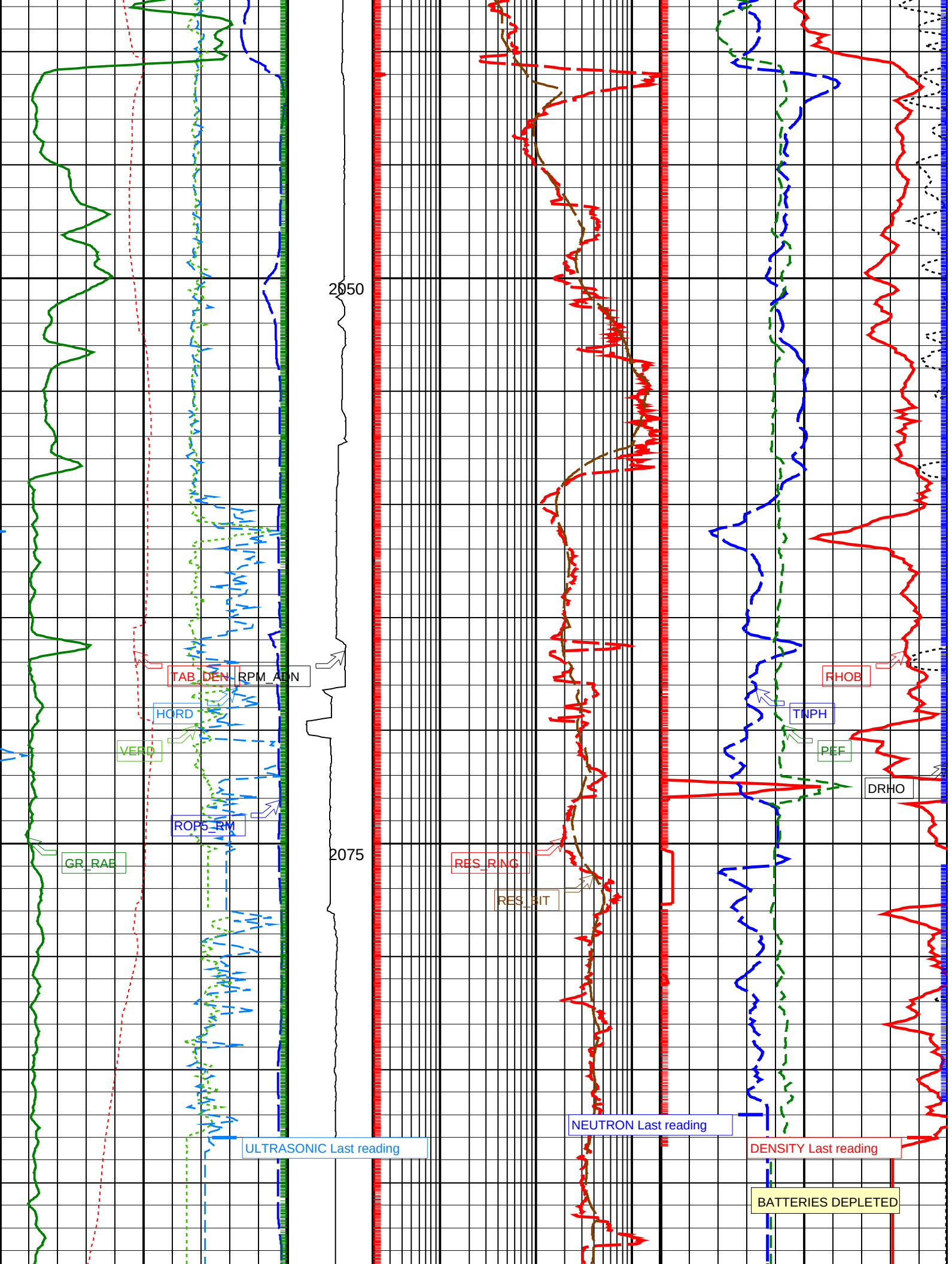

GR_RAB
RES_TRIM
RES_BIT
1775
1800
TAB_DEN
TRPM_ADN
RHOB

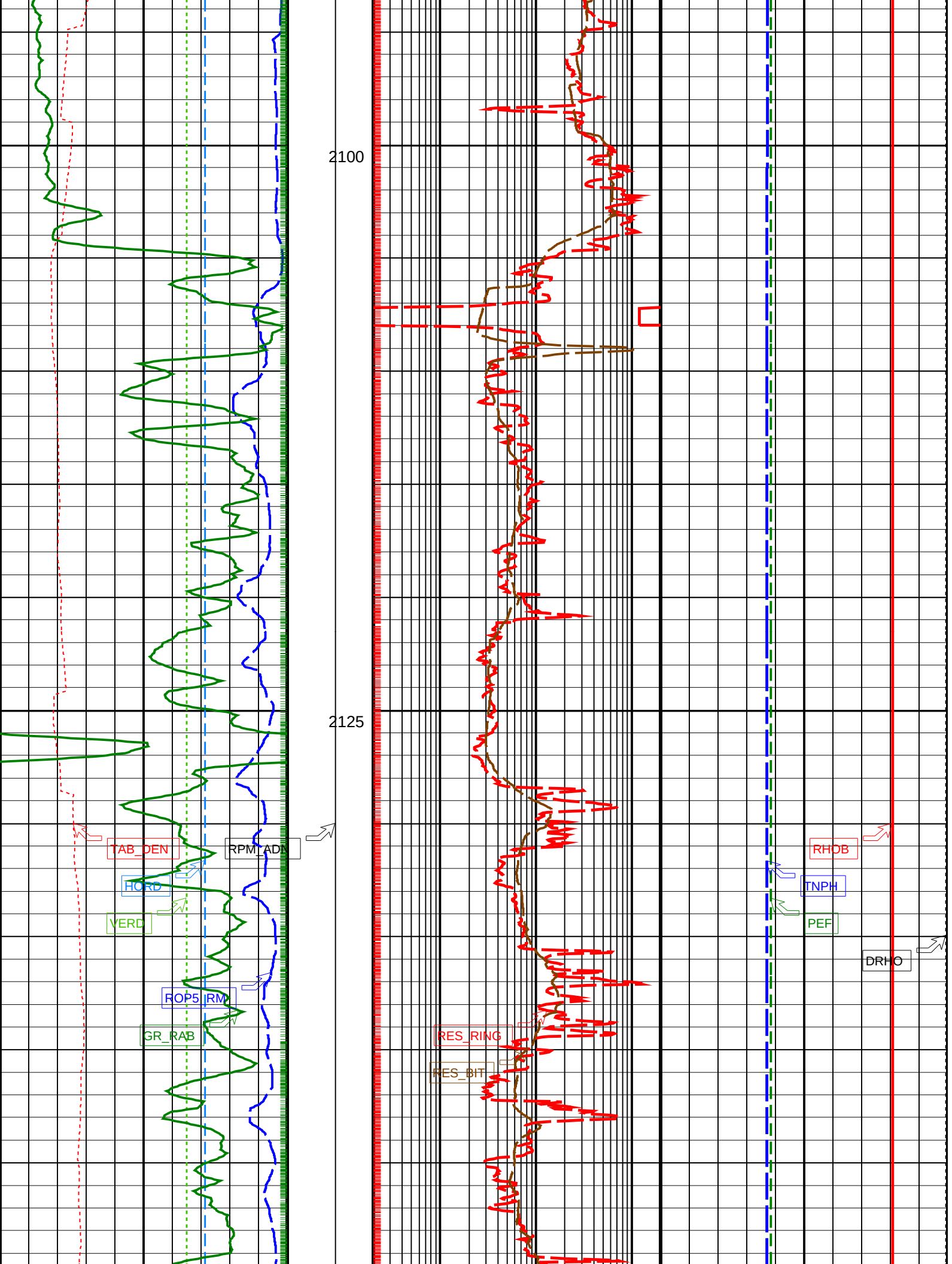

HORD
VERD
ROPS_RM
GR_RAB
RES_RING
RES_ST
TNPH
PEF
DRHO
1825
1850

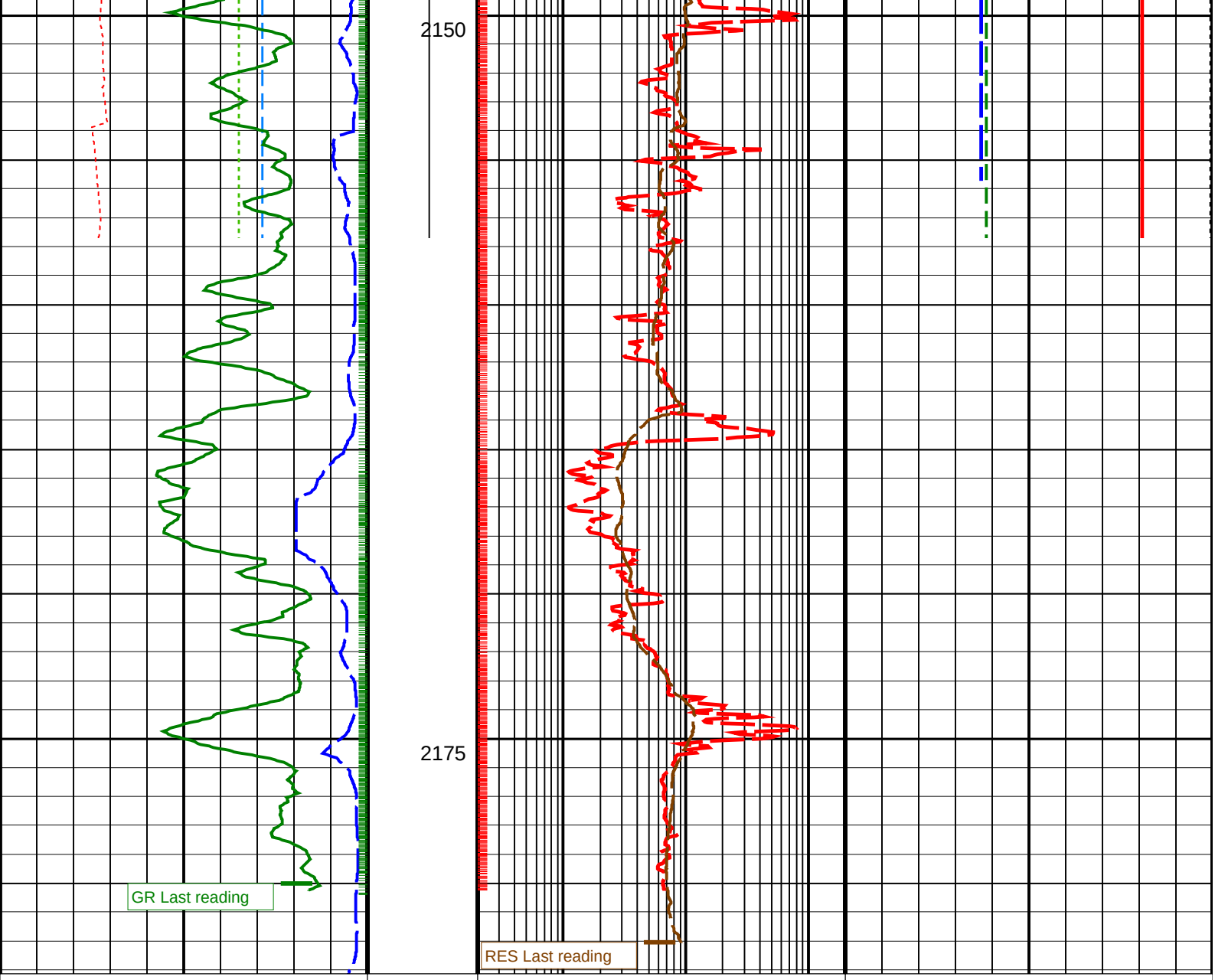

1875
1900
1925
TAB_DEN
RPM_AEN
HORD
VERD
ROP5_RM
GR_TAB
RES_RING
RES_BIT
RHOB
TNPH
PEF
DRHO


TAB_DEN
RPM_AEN
HORD
VERD
ROP5_RM
GR_RAB
RES_RING
RES_BIT
RHOB
TNPH
DRHO
1950
1975


2000
2025
TAB_DEN
RPM_ADN
HORD
VERD
ROPS_RM
GR_RAB
RES_RING
RES_BIT
RHOB
TNPH
PEF
DRHO


2050
2075
TAB_DEN
RPM_ADN
HORD
VERD
ROP5_RM
GR_RAB
RES_RING
RES_BIT
RHOB
TNPH
PEF
DRHO
NEUTRON Last reading
ULTRASONIC Last reading
DENSITY Last reading
BATTERIES DEPLETED


2100
2125
TAB_DEN
RPM_ADN
HORD
VERD
ROP5_IRM
GR_RAB
RES_RING
RES_BIT
RHOB
TNPH
PEF
DRHO



Density Time After Bit (TAB_DEN) 0 (HR) 10	ADN Rotational Speed (RPM_ADN) (RPM) 0 250	ARC Phase−Shift Resistivity 16−in. at 2 MHz (P16H) 0.2 (OHMM) 200	Bulk Density (RHOB) 1.95 (G/C3) 2.95
Horizontal Hole Diameter (HORD) 6 (IN) 16		Bit Resistivity (RES_BIT) 0.2 (OHMM) 200	Thermal Neutron Porosity (TNPH) 45 (PU) −15
Vertical Hole Diameter (VERD) 6 (IN) 16		Ring Resistivity (RES_RING) 0.2 (OHMM) 200	Photoelectric Factor (PEF) 0 (−−−− 10
ARC Gamma Ray (GR_ARC) 0 (GAPI) 200		ARC Phase−Shift Resistivity 22−in. at 2 MHz (P22H) 0.2 (OHMM) 200	Bulk Density Correction (DRHO) −0.25 (G/C3) 0.25
RAB Gamma Ray (GR_RAB) 0 (GAPI) 200		ARC Phase−Shift Resistivity 28−in. at 2 MHz (P28H) 0.2 (OHMM) 200	
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 200 (M/HR) 0		ARC Phase−Shift Resistivity 34−in. at 2 MHz (P34H) 0.2 (OHMM) 200	
		ARC Phase−Shift Resistivity 40−in. at 2 MHz (P40H) 0.2 (OHMM) 200	

PIP SUMMARY

Density Samples

Neutron Samples

ARC Gamma Ray Samples

ARC Resistivity Samples

Gamma Ray Samples

Ring Samples

IDEAL Version: ID13_0C_13

IDF

8.25−in. Stabilized Azimuthal Density Neutron / Equipment Identification

Primary Equipment:	
Tool Name and Serial Number	SADN − AA
Collar Type and Serial Number	NDDC − CA
Chassis Type and Serial Number	ADSE − GA
Stabilizer Type and Serial Number	IBS
Neutron Logging Source	NSR − C956
Density Logging Source	GSR − ZA2089
Stabilizer Size	12.0 − in.
Calibration Status	AUTO−

Master: 7−Nov−2008 1:18

8.25−in. Stabilized 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		991.6	Master		4832	Master		3826
	40.00 (Minimum) 700.0 (Nominal) 1400 (Maximum)			300.0 (Minimum) 3620 (Nominal) 7000 (Maximum)			300.0 (Minimum) 2880 (Nominal) 5000 (Maximum)	

Master: 7−Nov−2008 1:18

8.25−in. Stabilized 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		159.7	Master		2280	Master		2540
	10.00 (Minimum) 110.0 (Nominal) 200.0 (Maximum)			200.0 (Minimum) 1650 (Nominal) 3000 (Maximum)			200.0 (Minimum) 1930 (Nominal) 4000 (Maximum)	

Master: 7−Nov−2008 1:18

8.25−in. Stabilized 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		71.36	Master		102.3	Master		229.1
	17.00 (Minimum) 90.00 (Nominal) 170.0 (Maximum)			20.00 (Minimum) 120.0 (Nominal) 200.0 (Maximum)			50.00 (Minimum) 260.0 (Nominal) 500.0 (Maximum)	

Master: 7−Nov−2008 1:18

8.25−in. Stabilized 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		1.062	Master		1.363
	1.047 (Minimum) 1.062 (Nominal) 1.077 (Maximum)			1.336 (Minimum) 1.393 (Nominal) 1.450 (Maximum)	

Master: 7−Nov−2008 1:18

8.25−in. Stabilized 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		151.8	Master		53.91	Master		19.80
	100.0 (Minimum) 152.1 (Nominal) 190.0 (Maximum)			35.00 (Minimum) 55.33 (Nominal) 69.00 (Maximum)			13.00 (Minimum) 20.14 (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		149.1	Master		54.76	Master		19.48
	100.0 (Minimum) 152.1 (Nominal) 190.0 (Maximum)			35.00 (Minimum) 55.33 (Nominal) 69.00 (Maximum)			13.00 (Minimum) 20.14 (Nominal) 25.00 (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

Phase	Near Tube 1 Air Point Measure CPS	Value
Master		142.6
	100.0 (Minimum) 152.1 (Nominal) 190.0 (Maximum)	

Phase	Near Tube 1 Rod Point Measure CPS	Value
Master		53.08
	35.00 (Minimum) 55.33 (Nominal) 69.00 (Maximum)	

Phase	Near Tube 1 Water Point Measure CPS	Value
Master		18.60
	13.00 (Minimum) 20.14 (Nominal) 25.00 (Maximum)	

Phase	Near Tube 2 Air Point Measure CPS	Value
Master		1504
	1100 (Minimum) 1462 (Nominal) 2000 (Maximum)	

Phase	Near Tube 2 Rod Point Measure CPS	Value
Master		1564
	1200 (Minimum) 1519 (Nominal) 2000 (Maximum)	

Phase	Near Tube 2 Water Point Measure CPS	Value
Master		809.6
	640.0 (Minimum) 801.5 (Nominal) 1100 (Maximum)	

Phase	Near Tube 3 Air Point Measure CPS	Value
Master		1506
	1100 (Minimum) 1462 (Nominal) 2000 (Maximum)	

Phase	Near Tube 3 Rod Point Measure CPS	Value
Master		1563
	1200 (Minimum) 1519 (Nominal) 2000 (Maximum)	

Phase	Near Tube 3 Water Point Measure CPS	Value
Master		826.7
	640.0 (Minimum) 801.5 (Nominal) 1100 (Maximum)	

Phase	Near Tube 4 Air Point Measure CPS	Value
Master		1490
	1100 (Minimum) 1462 (Nominal) 2000 (Maximum)	

Phase	Near Tube 4 Rod Point Measure CPS	Value
Master		1544
	1200 (Minimum) 1519 (Nominal) 2000 (Maximum)	

Phase	Near Tube 4 Water Point Measure CPS	Value
Master		807.7
	640.0 (Minimum) 801.5 (Nominal) 1100 (Maximum)	

Master: 7−Nov−2008 1:18

8.25−in. Stabilized Azimuthal Density Neutron Calibration

Neutron: Water Block Check

Phase	Far Neutron water porosity PU	Value
Master		103.8
	60.00 (Minimum) 100.0 (Nominal) 120.0 (Maximum)	

8.25−in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:

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

Master: 11−Nov−2008 13:30

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase−Shift T1	Value
Master		0.4924
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T2	Value
Master		−0.4312
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T3	Value
Master		0.3971
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T4	Value
Master		−0.5360
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T5	Value
Master		0.3796
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T1 at 400KHz	Value
Master		0.3638
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T2 at 400KHz	Value
Master		−0.3755
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T3 at 400KHz	Value
Master		0.3781
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T4 at 400KHz	Value
Master		−0.4024
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase−Shift T5 at 400KHz	Value
Master		0.3431
	−3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Master: 11−Nov−2008 13:30

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Attenuation T1	Value
Master		8.592
	6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)	

Phase	Attenuation T2	Value
Master		6.118
	4.500 (Minimum) 6.500 (Nominal) 8.500 (Maximum)	

Phase	Attenuation T3	Value
Master		5.287
	2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)	

Phase	Attenuation T4	Value
Master		4.066
	2.600 (Minimum) 4.600 (Nominal) 6.600 (Maximum)	

Phase	Attenuation T5	Value
Master		3.872
	1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)	

Phase	Attenuation T1 at 400KHz	Value
Master		8.581
	6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)	

Phase	Attenuation T2 at 400KHz	Value
Master		6.135
4.500 (Minimum)	6.500 (Nominal)	8.500 (Maximum)

Phase	Attenuation T3 at 400KHz	Value
Master		5.274
2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)

Phase	Attenuation T4 at 400KHz	Value
Master		4.080
2.600 (Minimum)	4.600 (Nominal)	6.600 (Maximum)

Phase	Attenuation T5 at 400KHz	Value
Master		3.872
1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)

Master: 11−Nov−2008 14:05

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		7.556
4.960 (Minimum)	7.200 (Nominal)	9.650 (Maximum)

8.25−in. Resistivity At−the−Bit / Equipment Identification

Primary Equipment:

Tool Name and Serial Number	RAB8 − AA	859
Calibration Status	AUTO−	

Master: 13−Nov−2008 16:50

8.25−in. Resistivity At−the−Bit Calibration

Resistivity: Fixture

Phase	Ring/T1 factor ----	Value
Master		0.01100
0.009500 (Minimum)	0.01100 (Nominal)	0.01250 (Maximum)

Phase	Ring/T2 factor ----	Value
Master		0.01100
0.009500 (Minimum)	0.01100 (Nominal)	0.01250 (Maximum)

Phase	M0/T1 factor ----	Value
Master		1.050
0.9000 (Minimum)	1.050 (Nominal)	1.200 (Maximum)

Phase	M0/T2 factor ----	Value
Master		1.050
0.9000 (Minimum)	1.050 (Nominal)	1.200 (Maximum)

Phase	M2/T1 factor ----	Value
Master		0.9744
0.8500 (Minimum)	1.000 (Nominal)	1.150 (Maximum)

Phase	M2/T2 factor ----	Value
Master		0.9426
0.8500 (Minimum)	1.000 (Nominal)	1.150 (Maximum)

Phase	BTN shallow/T1 factor ----	Value
Master		0.0006700
0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)

Phase	BTN shallow/T2 factor ----	Value
Master		0.0006700
0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)

Phase	BTN medium/T1 factor ----	Value
Master		0.0006700
0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)

Phase	BTN medium/T2 factor ----	Value
Master		0.0006700
0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)

Phase	BTN deep/T1 factor ----	Value
Master		0.0006700
0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)

Phase	BTN deep/T2 factor ----	Value
Master		0.0006700
0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)

Master: 13−Nov−2008 18:39

8.25−in. Resistivity At−the−Bit Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor ----	Value
Master		8.213
6.500 (Minimum)	8.000 (Nominal)	9.500 (Maximum)

SCHLUMBERGER

Survey report

Client.....: BEACH PETROLEUM LTD
Field.....: WILDCAT

Well.....: PEEJAY-1
Service Order no.....: 08ASQ0031
Engineer.....: MARGANDA/DALLAS/SAM

Spud date.....: 15-NOV-2008
Last survey date.....: 02-Dec-08
Total accepted surveys...: 33

RIG:.....: WEST TRITON
STATE:.....: TASMANIA

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

----- Depth reference -----------------------
Permanent datum.....: MEAN SEA LEVEL
Depth reference.....: DRILLER'S DEPTH
GL above permanent.....: -78.00 m
KB above permanent.....: Top Drive
DF above permanent.....: 34.16 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: 0.00 degrees

MD of first survey.....: 0.00 m
MD of last survey.....: 2183.00 m

----- Geomagnetic data ----------------------
Magnetic model.....: BGGM version 2008
Magnetic date.....: 21-Nov-2008
Magnetic field strength..: 1223.97 HCNT
Magnetic dec (+E/W-).....: 13.22 degrees
Magnetic dip.....: -70.86 degrees

----- MWD survey Reference Criteria ---------
Reference G.....: 1000.23 mGal
Reference H.....: 1223.97 HCNT
Reference Dip.....: -70.86 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections ---------------------------
Magnetic dec (+E/W-).....: 13.22 degrees
Grid convergence (+E/W-).: 0.42 degrees
Total az corr (+E/W-)....: 12.80 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

[(c)2008 IDEAL ID13_0C_13]
SCHLUMBERGER Survey Report

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/ 10m)	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	112.16	0.00	0.00	112.16	112.16	0.00	0.00	0.00	0.00	0.00	0.00	DMAG	None
3	264.95	1.45	150.86	152.79	264.93	-1.69	-1.69	0.94	1.93	150.86	0.09	DMAG	None
4	294.47	1.15	140.54	29.52	294.45	-2.24	-2.24	1.31	2.60	149.69	0.13	DMAG	None
5	323.97	1.06	150.84	29.50	323.94	-2.71	-2.71	1.63	3.16	148.94	0.07	DMAG	None
6	413.38	0.46	197.79	89.41	413.34	-3.77	-3.77	1.93	4.24	152.97	0.09	DMAG	None
7	502.18	0.23	197.76	88.80	502.14	-4.28	-4.28	1.76	4.63	157.63	0.03	DMAG	None
8	591.80	0.37	226.93	89.62	591.76	-4.65	-4.65	1.50	4.89	162.17	0.02	DMAG	None
9	679.52	0.12	321.43	87.72	679.48	-4.77	-4.77	1.23	4.93	165.53	0.05	DMAG	None
10	768.28	0.20	271.31	88.76	768.24	-4.70	-4.70	1.02	4.81	167.76	0.02	DMAG	None
11	803.99	0.21	236.85	35.71	803.95	-4.73	-4.73	0.90	4.82	169.20	0.03	DMAG	None
12	842.85	0.43	127.38	38.86	842.81	-4.86	-4.86	0.96	4.95	168.84	0.14	PUP	None
13	930.97	0.44	102.94	88.12	930.93	-5.14	-5.14	1.55	5.37	163.20	0.02	PUP	None
14	1019.59	0.43	112.01	88.62	1019.54	-5.34	-5.34	2.19	5.77	157.68	0.01	PUP	None
15	1048.56	0.33	126.08	28.97	1048.51	-5.43	-5.43	2.36	5.92	156.50	0.05	PUP	None
16	1108.49	0.33	130.22	59.93	1108.44	-5.64	-5.64	2.63	6.22	155.00	0.00	PUP	None
17	1167.38	0.22	121.98	58.89	1167.33	-5.81	-5.81	2.86	6.47	153.82	0.02	PUP	None
18	1285.81	0.69	61.10	118.43	1285.76	-5.59	-5.59	3.67	6.68	146.67	0.05	PUP	None
19	1345.01	0.68	106.82	59.20	1344.95	-5.51	-5.51	4.32	7.01	141.92	0.09	PUP	None
20	1374.54	0.67	110.27	29.53	1374.48	-5.62	-5.62	4.65	7.30	140.41	0.01	PUP	None
21	1433.56	0.69	132.78	59.02	1433.50	-5.99	-5.99	5.24	7.95	138.83	0.05	PUP	None
22	1492.77	0.32	332.96	59.21	1492.71	-6.08	-6.08	5.42	8.15	138.28	0.17	DMAG	None
23	1552.04	0.36	351.94	59.27	1551.98	-5.75	-5.75	5.32	7.83	137.22	0.02	DMAG	None
24	1640.51	0.45	30.51	88.47	1640.44	-5.17	-5.17	5.46	7.52	133.47	0.03	DMAG	None
25	1729.59	0.54	20.07	89.08	1729.52	-4.48	-4.48	5.78	7.31	127.77	0.01	DMAG	None
26	1788.72	0.68	29.31	59.13	1788.65	-3.91	-3.91	6.05	7.20	122.89	0.03	DMAG	None
27	1818.45	0.58	32.16	29.73	1818.37	-3.63	-3.63	6.21	7.20	120.29	0.04	DMAG	None
28	1906.90	0.62	29.47	88.45	1906.82	-2.83	-2.83	6.69	7.26	112.97	0.01	DMAG	None
29	1995.04	0.79	12.68	88.14	1994.95	-1.83	-1.83	7.06	7.29	104.51	0.03	DMAG	None
30	2084.02	0.82	7.44	88.98	2083.92	-0.60	-0.60	7.27	7.30	94.69	0.01	DMAG	None
31	2142.80	1.09	57.68	58.78	2142.70	0.12	0.12	7.80	7.80	89.12	0.14	DMAG	None
32	2172.21	0.98	61.66	29.41	2172.10	0.39	0.39	8.26	8.27	87.31	0.04	DMAG	None
33	2183.00	0.98	61.66	10.79	2182.89	0.48	0.48	8.42	8.43	86.76	0.00	Proj. to TD	

[(c)2008 IDEAL ID13_0C_13]

Well:	**PeeJay−1**
Field:	**Wildcat**
Rig:	**West Triton**
State:	**Tasmania**

VISION Services
1:200 Measured Depth
Recorded Mode Log