



Company: **Nexus Energy Ltd**

## 9.5 in Section

**Well: Longtom-4 H**

Field: Longtom

**Rig: West Triton**

State:

# Victoria

# EcoScope\* Service

## 1:200 Measured Depth

## Recorded Mode Log

Rig:		West Triton	
Field:		Longtom	
Location:		Bass Strait	
Well:		Longtom-4 H	
Company:		Nexus Energy Ltd	
<div style="text-align: right;"> <h1>EcoScope* Service</h1> <h2>1:200 Measured Depth</h2> <h3>Recorded Mode Log</h3> </div>			
Location			
Service Order No. 08ASQA0007	Total depth:	4648.0 m	K.B. Top Drive
	Spud date:	21-Jun-08	G.L. -97.06 m
	Runs:	7 To 8	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		
X = E 616,897.309 m	Longitude	Latitude	
Y = N 5,781,704.499 m	E 148° 19' 59.944" S	38° 06' 17.707"	

## Bit Run Summary

<b>Run number</b>		7	8								
Bit size	in.	9.5	9.5								
Bit start depth	m	2690.00	3577.00								
Bit end depth	m	3577.00	4648.00								
Top interval logged	m	2680.00	3567.27								
Bottom interval logged	m	3567.27	4638.31								
Begin log: time		08:49	08:21								
Begin log: date		2-Aug-08	7-Aug-08								
End log: time		21:49	02:39								
End log: date		5-Aug-08	10-Aug-08								
<b>Mud data</b>											
Depth	m	3525.00	4558.00								
Type		Accolade SBM	Accolade SBM								
Mud weight	ppg	12.0	12.1								
Solids	%	19.9	18.6								
Chlorides	ppm	281,320	291,174								
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							
<b>Environmental data</b>										
<b>GR</b>										
Mud weight	ppg	12.0	12.1							
Bit size	in.	9.5	9.5							
<b>Resistivity</b>										
<b>Neutron porosity</b>										
Hole Size	in.	9.5	9.5							
Mud weight	ppg	12.0	12.1							
Temperature	°C	101.0	120.0							
Mud salinity	ppk	60.48	61.15							
Formation salinity		n/a	n/a							
Recording rate 1	SEC	2 (GR, Res)	2 (GR, Res)							
Recording rate 2	SEC	4 (Den, Neu)	4 (Den, Neu)							
Filtering GR		3 pts	3 pts							
Filtering density		3 pts	3 pts							
Filtering Neutron		3 pts	3 pts							
Company representative		B. Openshaw	R. Rossouw							
Anadrill personnel		M. Kampen	M. Lu	S.T.D.Aung	P.Sellathurai	P.Dassens	J.Condon			

<p style="text-align: center;"><b>DISCLAIMER</b></p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p>		
<b>OTHER SERVICES FOR RUN7</b> Directional Drilling Directional Surveys Annular Pressure & Temperature Shock & Vibrations	<b>OTHER SERVICES FOR RUN8</b> Directional Drilling Directional Surveys Annular Pressure & Temperature Shock & Vibrations	
<b>REMARKS: RUN NUMBER 7</b> Depth is referenced to Driller's Depth.  Gamma Ray is corrected for mud weight,tool size and bit size.  Resistivity is borehole compensated and environmentally corrected.  Neutron porosity is corrected for the effects of borehole size(bit size),temperature,mud salinity,and mud hydrogen index (a factor of mud weight,mud temperature and pressure).  Neutron porosity is calculated using a limestone matrix density of 2.71 g/cm3.  POOH due to Downhole Tool Failure.	<b>REMARKS: RUN NUMBER 8</b> Depth is referenced to Driller's Depth.  Gamma Ray is corrected for mud weight,tool size and bit size.  Resistivity is borehole compensated and environmentally corrected.  Neutron porosity is corrected for the effects of borehole size(bit size),temperature,mud salinity,and mud hydrogen index (a factor of mud weight,mud temperature and pressure).  Neutron porosity is calculated using a limestone matrix density of 2.71 g/cm3.  POOH due to reaching TD.	

<b>EQUIPMENT DESCRIPTION</b>		
<b>RUN7</b>	<b>RUN8</b>	
<b>DOWNHOLE EQUIPMENT</b>	<b>DOWNHOLE EQUIPMENT</b>	

## DOWNHOLE EQUIPMENT

## DOWNHOLE EQUIPMENT

6-3/4" Telescope\*  
DHS: 9.2C02  
MDC: E0330  
MEC: 280  
MDI: 1888  
MVC: 256

24.45

D&I — 20.08  
MVC — 19.43

6-3/4" EcoScope\*  
SN#963  
DHS: v2.2  
BladeOD: 9-1/8"  
PNG C: 2149-41537  
Source S/N: A2585

15.93

Spectroscopy — 13.32  
Neutron Porosity — 13.17  
Ultrasonic — 11.35  
Bulk Density — 10.98  
Pressure — 9.89  
Gamma Ray — 9.73

6-3/4" Telescope\*  
DHS: 9.2C02  
MDC: FU22  
MEC: 862  
MDI: 2536  
MVC: 282

24.44

D&I — 20.07  
MVC — 19.42

6-3/4" EcoScope\*  
SN#805  
DHS: v2.2  
BladeOD: 9-1/8"  
PNG C: 2242-41221  
Source S/N: A2474

15.93

Spectroscopy — 13.29  
Neutron Porosity — 13.14  
Ultrasonic — 11.32  
Bulk Density — 10.95  
Pressure — 9.86  
Gamma Ray — 9.69

6-3/4" PowerDrive Xceed\*  
SN#241  
DHS: 37B05  
BladeOD: 9 3/8"

7.88

9-1/2" Reed Hycalog PDC Bit  
SN#218795

Maximum string diameter 9.50 in.  
All lengths in Meters

PowerDrive Xceed\*  
SN#267  
DHS: 37B05  
BladeOD: 9 3/8"

7.88

9-1/2" Red Hycalog PDC Bit  
SN#216535

Maximum string diameter 9.50 in.  
All lengths in Meters

Variable Name	Variable Description	Run Name & Value		
	Run Number		5	6
	General Information			
BHT_RM	Bottom Hole Temperature (RM)	DEGC	90.550	86.000
BSAL_RM	Mud Salinity (RM)	PPK	63.38	63.38
BS_RM	Bit Size (RM)	IN	9.500	9.500
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)	----	XPLOT	XPLOT
MST_RM	Mud Sample temperature (RM)	DEGC	20.000	20.000
MW_RM	Mud Weight (RM)	LB/G	12.200	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	10.000	10.000
TD_RM	Total Measured Depth (RM)	M	2841.920	2987.000
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
	DVD			
-----Parameters-----	Parameters-----	-----Sigma	-----Sigma	
-----Parameters-----	Parameters-----	-----Sigma	-----Sigma	
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	DB	8.531	8.649
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.520	8.670
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	5.907	5.776
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	5.924	5.766
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	5.130	5.248
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	5.109	5.273
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	4.305	4.175
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	DB	4.317	4.159
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	DB	3.684	3.810
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB	3.683	3.831
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed	No_Tx_Failed
ALPHA_DEN_OPT	Density Enhanced Vertical Resolution Processing Switch	----	NO	NO
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000	-50000.000
ANISO_COMPUTE	Anisotropy Computation Option	----	YES	YES
ATMP_ARC	ARC Select Temperature Channel	----	Annulus_Temp	Annulus_Temp
AZMF	Formation DIP Azimuth	DEG	0.000	0.000
BH_COMPUTE	Borehole Inversion Computation Option	----	YES	YES
CDPTH_ARC	Process Start Depth	M	30.480	30.480
CHI_RM	Caliper High Limit from BS (RM)	IN	10.000	10.000
CLO_RM	Caliper Low Limit from BS (RM)	IN	-5.000	-5.000
DIELEC_COMPUTE	Dielectric Computation Option	----	NO	NO
DIPF	Formation DIP Angle	DEG	0.000	0.000
DTMUD	Delta-T for Mud (RM)	US/F	204.102	206.800
DTMUD_DH	Delta-T for Mud Downhole (RT)	US/F	206.000	206.800
DVDM DHS	DVDM Down Hole Software Version	----	Karl 2	Karl 2
DVDM_DATA_LTB	DVDM: Create An DVDM LTB Data File	----	NO	NO
DVD_DATA_FIX	DVDM: Create A Corrected DVDM Time Data File	----	NO	NO
DYN_IMAGE_OPT	Generate Dynamic Normalized Image?	----	NO	NO
EDPTH	Wizard Process Stop Depth	----	50000	50000
EN_WIZARD	Enable ARC Wizard Processing	----	NO	NO
ERRCT	Percentage Error Cutoff	----	4.500	4.500
EVRL	EVR Process averaging number of samples (RM)	----	49	49
FWVN	Firmware Version Number	----	2.200	2.200
GCSE	Generalized Caliper Selection	----	BS	BS
GRSH	GR Shale (Invasion Computation Cutoff)	GAPI	1000.000	1000.000
GR_CF	Gamma Ray Correction Factor	----	1.800	1.800
GR_O2COR_OPT	Enable Gamma Ray Oxygen Activation Correction	----	YES	YES
HIGH_BLEND	High Resistivity Threshold for Blending	OHMM	2.000	2.000
IDQT	Image Derived Quality Threshold	----	2.000	2.000
IMAGE_MAX_DCRA	Image Density Caliper Right Scale	IN	8.000	8.000
IMAGE_MAX_IDDQ	Image Density Quality Right Scale	----	1.000	1.000
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_DCRA	Image Density Caliper Left Scale	IN	2.000	2.000
IMAGE_MIN_IDDQ	Image Density Quality Left Scale	----	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
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 Coefficient (mA/g/degC)	----	0.000	0.000
INVAS_COMPUTE	Invasion Computation Option	----	YES	YES
JSD	Acquisition start date	----	25-Jul-08	28-Jul-08
JSD_ARC	ARC Acquisition start date	----	25-Jul-08	28-Jul-08
LOW_BLEND	Low Resistivity Threshold for Blending	OHMM	1.000	1.000
MATR	Rock Matrix for Neutron Porosity Corrections	----	LIMESTONE	LIMESTONE
MSWS	ARC Wizard Model Switch Window	M	1.524	1.524
MULTIEFFECT_COM	Multi Effect Option	----	YES	YES
NEU_DCOR_OPT	Density Correction Source for Neutron Processing	----	Bottom	Bottom
NEU_FTUBE_OPT	Far Thermal Tube Selection	----	Both	Both
NEU_PRESCOR_OPT	Pressure Correction Source for Neutron Processing	----	Annulus_Press	Annulus_Press
NEU_TEMPOR_OPT	Temperature Correction Source for Neutron Processing	----	Tool_Temp	Tool_Temp
NTIK_SEL	Neutron Tick Channel Name	----	FAZ1	FAZ1
OACF	Oxygen Activation Correction Factor (RM)	----	8.000	8.000
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	2.418	1.772
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	-0.531	-0.307
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-2.506	-1.850
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	0.588	0.296
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	2.402	1.739
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	-0.525	-0.429
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-2.492	-1.839
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	0.709	0.278
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	2.413	1.769
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	-0.553	-0.256
PMUD	Potassium Concentration in Mud	----	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	----	25-Jul-08	28-Jul-08
RUN_DURATION_OP	Run Duration Type ?	----	Normal	Normal
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
SDPTH	Wizard Process Start Depth	----	100	100
SIG_PCOR_OPT	Porosity Correction Source for Sigma Processing	----	Best	Best
SPEC_CSG_DEPTH	Casing Depth for Spectroscopy Processing	M	30.480	30.480
SPEC_K_OPT	Potassium standard used during acquisition?	----	NO	YES
SPL_CLAY_MODEL	SpectroLith Clay Model	----	SUBARKOSE	SUBARKOSE
SPL_MG_OPT	Magnesium Flag Switch ?	----	OFF	OFF
SPL_SULFUR_MIN	SpectroLith Sulfur Mineral Option	----	PYRITE	PYRITE
STAB_SIZE	Stabilizer Size	IN	9.125	9.125
STOH	Top of Hole Sector	----	SECTOR_0	SECTOR_0
TRNO	Tool Run Number	----	5	6
TSIZ_ARC	ARC Tool Size	IN	6.750	6.750
TSNO	Tool Serial Number	----	VA86	763
UNIFORM_COMPUTE	Uniform Rock Option	----	YES	YES
VERS_ARC	ARC Down hole software version Number	----	2.200	2.200
WPPV	Water Phase as Percent of Total Volume in OBM	----	24.000	24.000
WPSL	Salinity of the Water Phase Emulsified within the OBM	PPK	63.380	63.380
WRK	to Report Potassium Concentration	----	K_by_Wgt_%	K_by_Wgt_%
WSDI	Window Size of Dynamic Normalization Image	M	4.572	4.572

Schlumberger Drilling & Measurements

ID13 Parameter Insert Header Software version 3.0c

## Longtom-4 H RM 200MD

Format: EcoScope RM Log      Vertical Scale: 1:200      Graphics File Created: 15-Aug-2008 14:34

### PIP SUMMARY

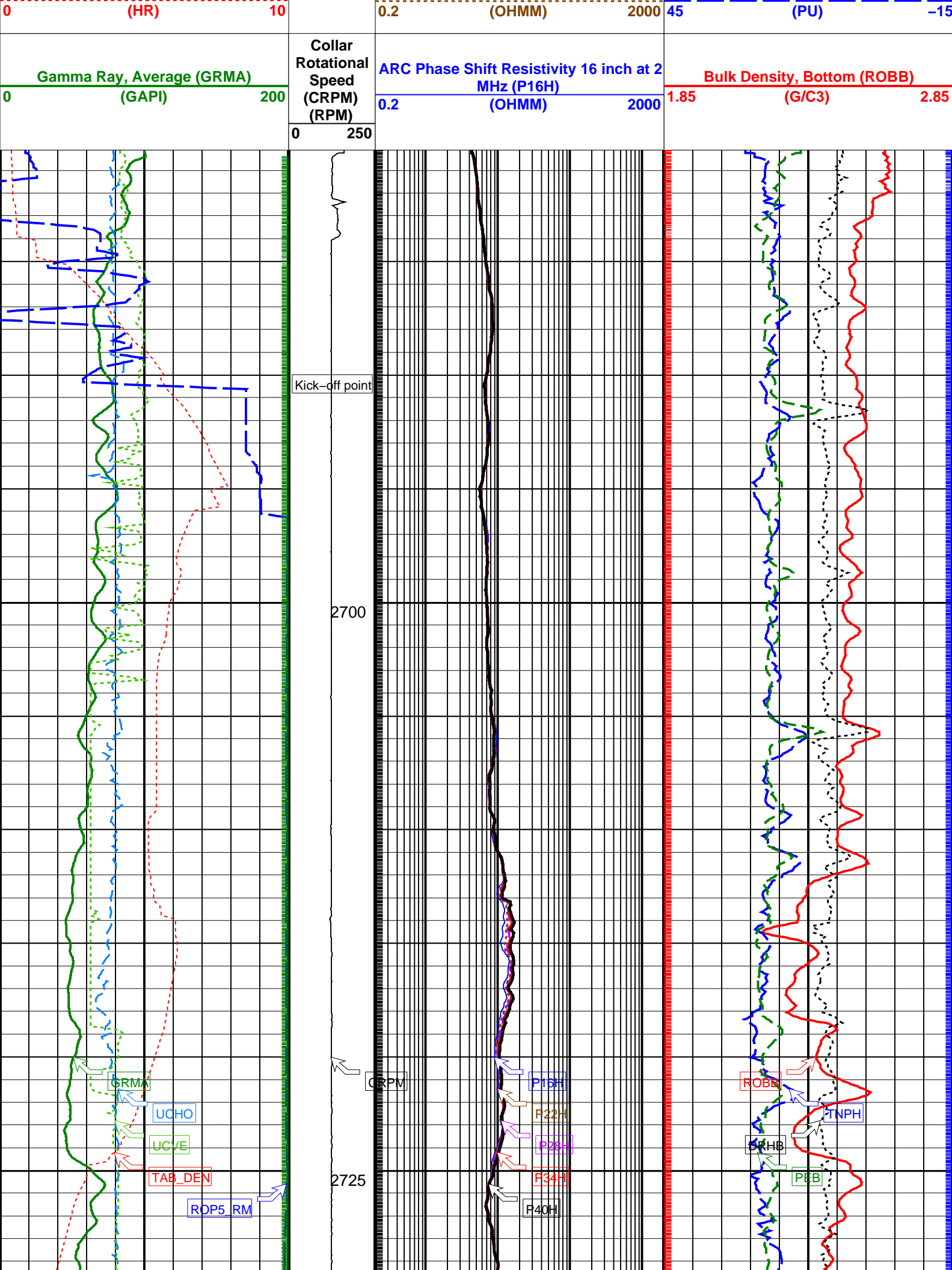
Density Samples

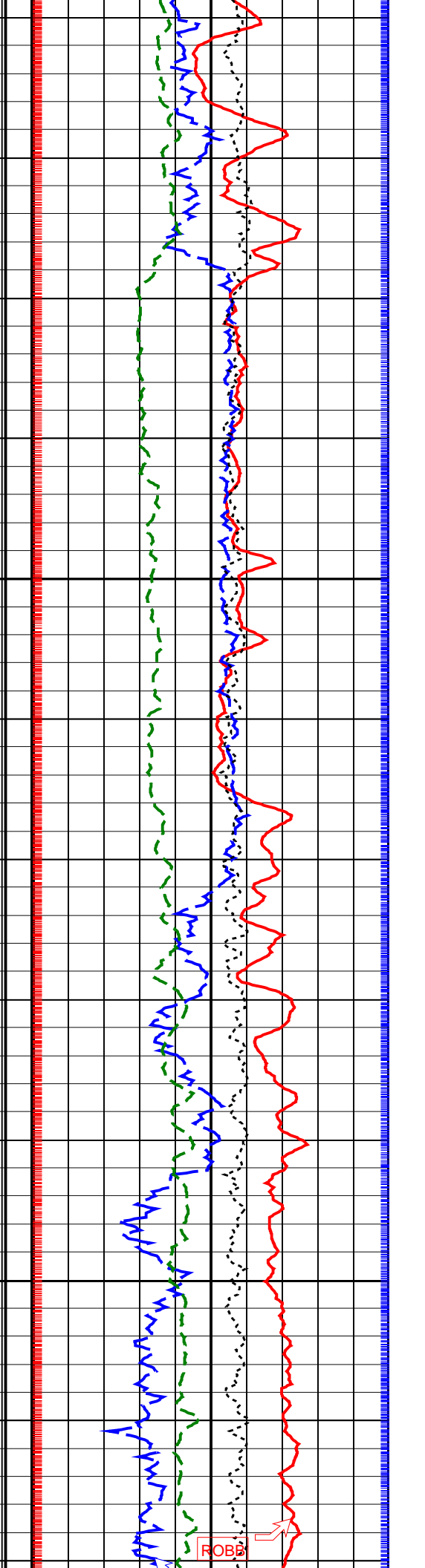
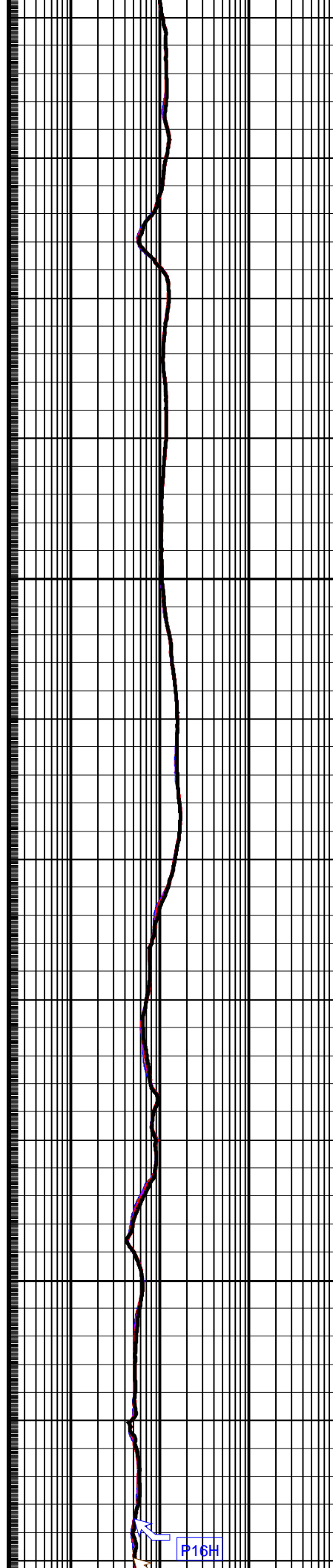
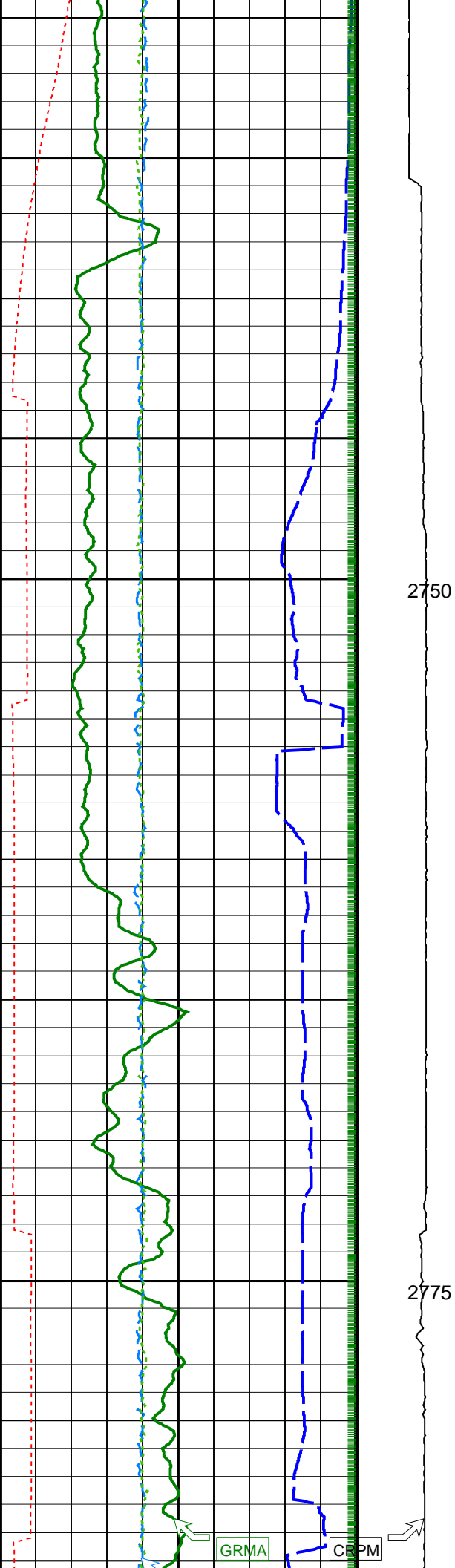
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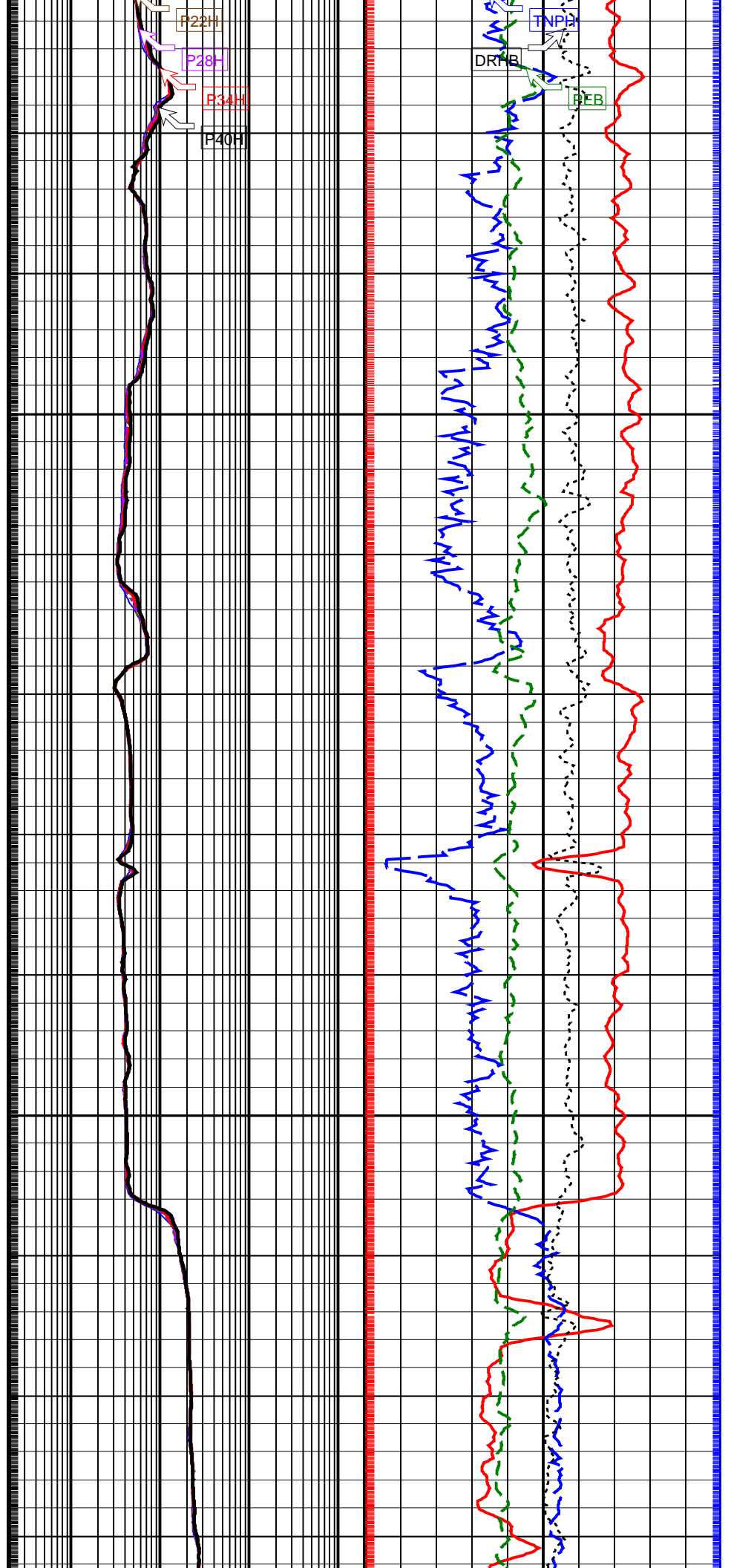
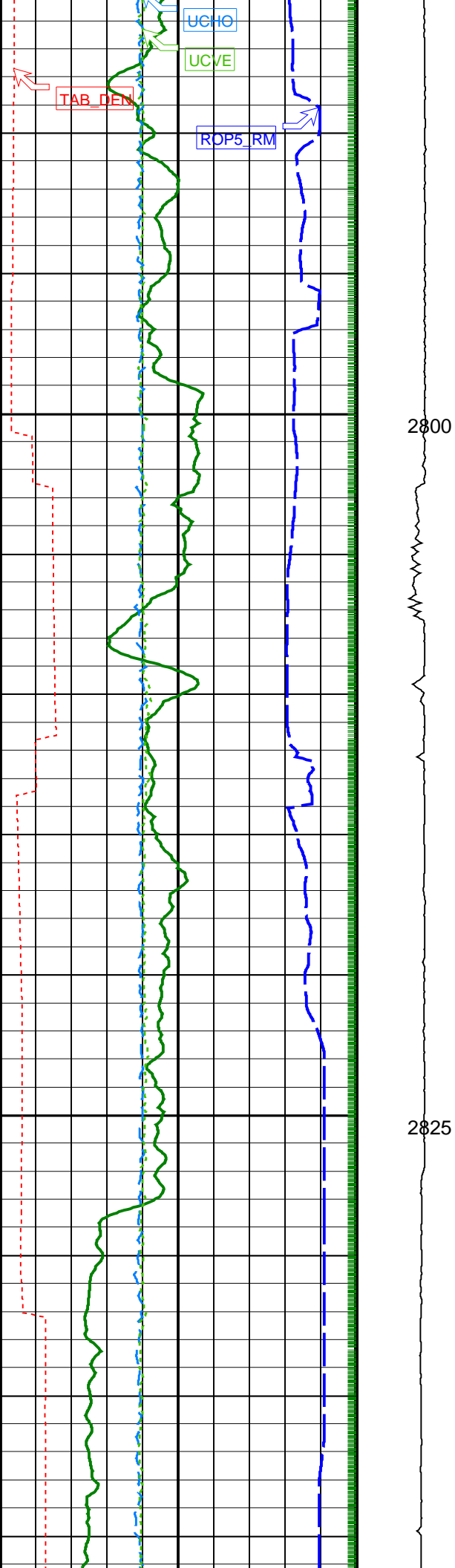
Gamma Ray Samples

Resistivity Samples

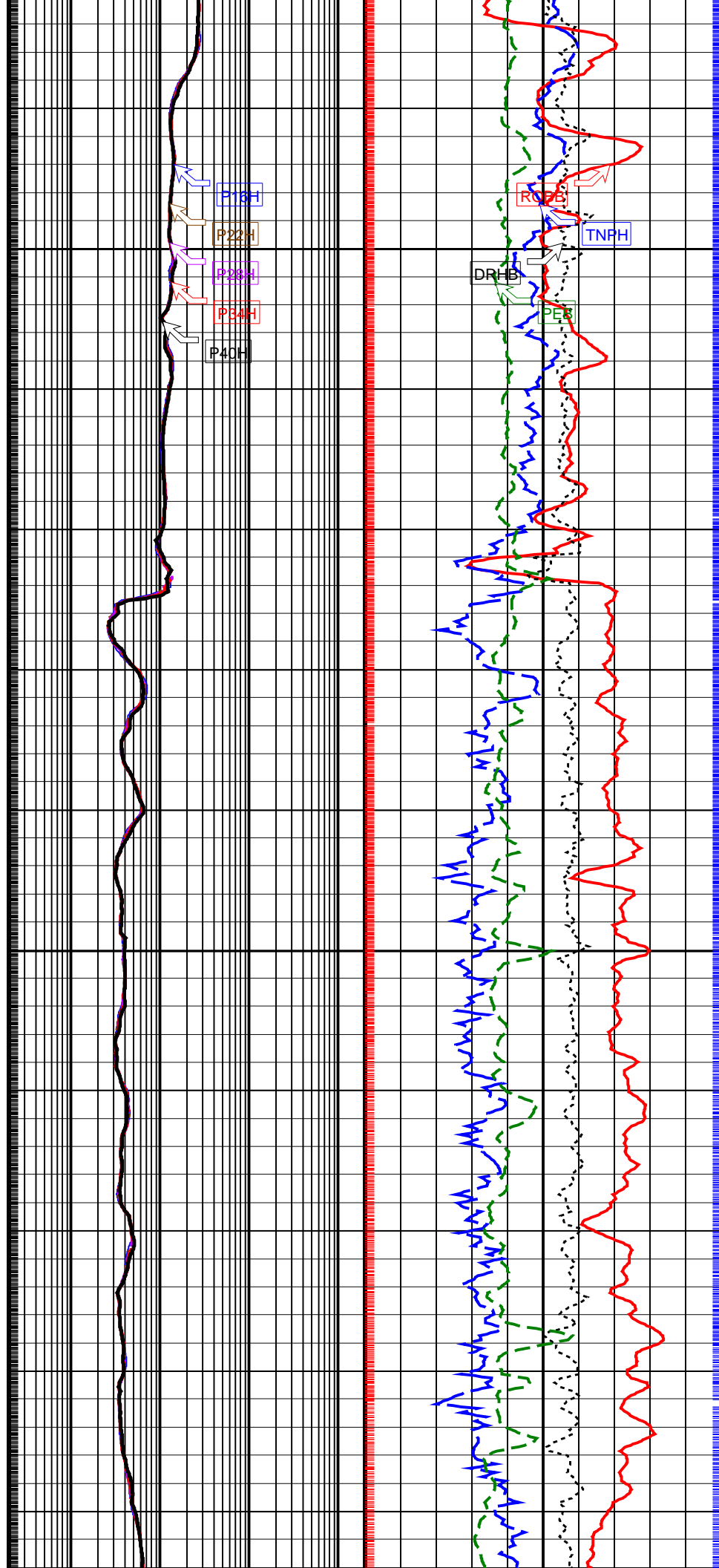
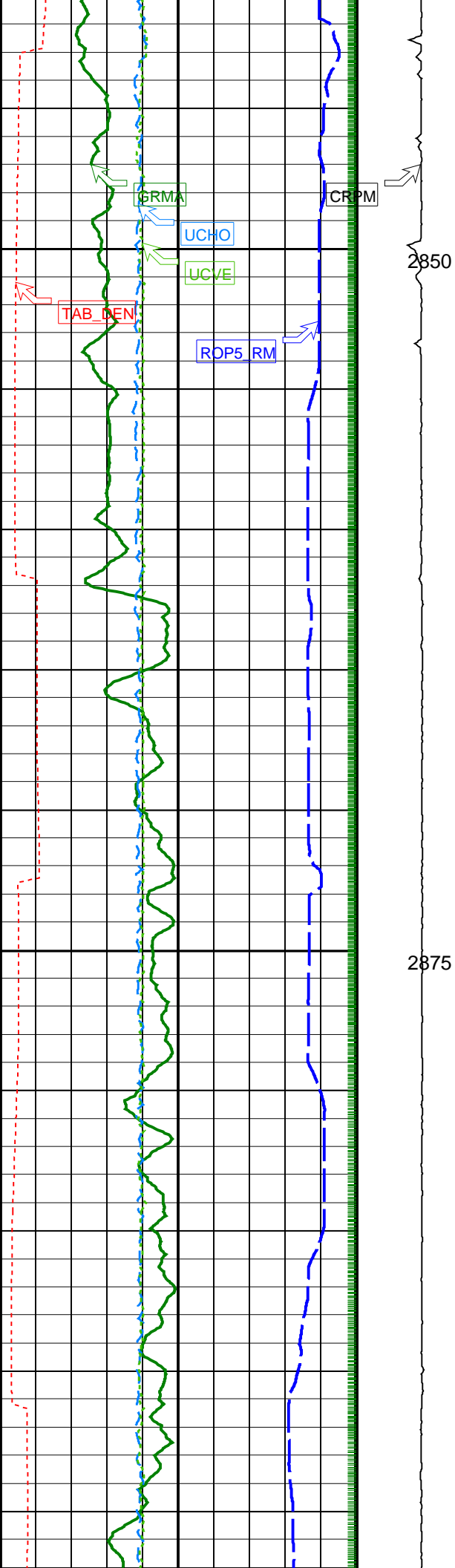
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 200 (M/HR) 0	ARC Phase Shift Resistivity 40 inch at 2 MHz (P40H) 0.2 (OHMM) 2000		0 10 Photoelectric Factor, Bottom (PEB) (-----)	
	ARC Phase Shift Resistivity 34 inch at 2 MHz (P34H) 0.2 (OHMM) 2000			
Ultrasonic Caliper, Vertical Diameter (UCVE) 6 (IN) 16	ARC Phase Shift Resistivity 28 inch at 2 MHz (P28H) 0.2 (OHMM) 2000			Bulk Density Correction, Bottom (DRHB) -0.25 (G/C3) 0.25
Ultrasonic Caliper, Horizontal Diameter (UCHO) 6 (IN) 16	ARC Phase Shift Resistivity 22 inch at 2 MHz (P22H)			
Time after BIT (between drilling and measurement) (TAB_DEN)				Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH)

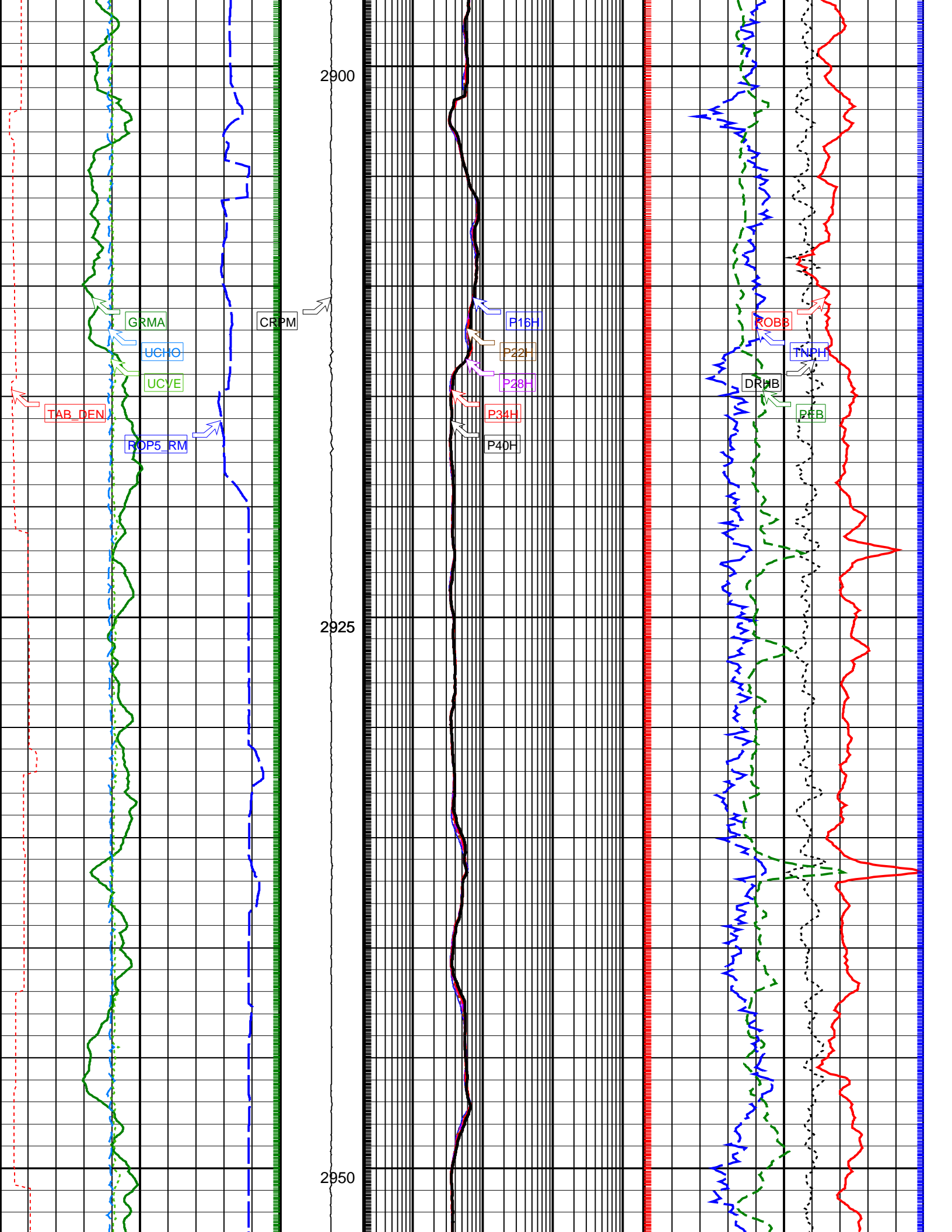


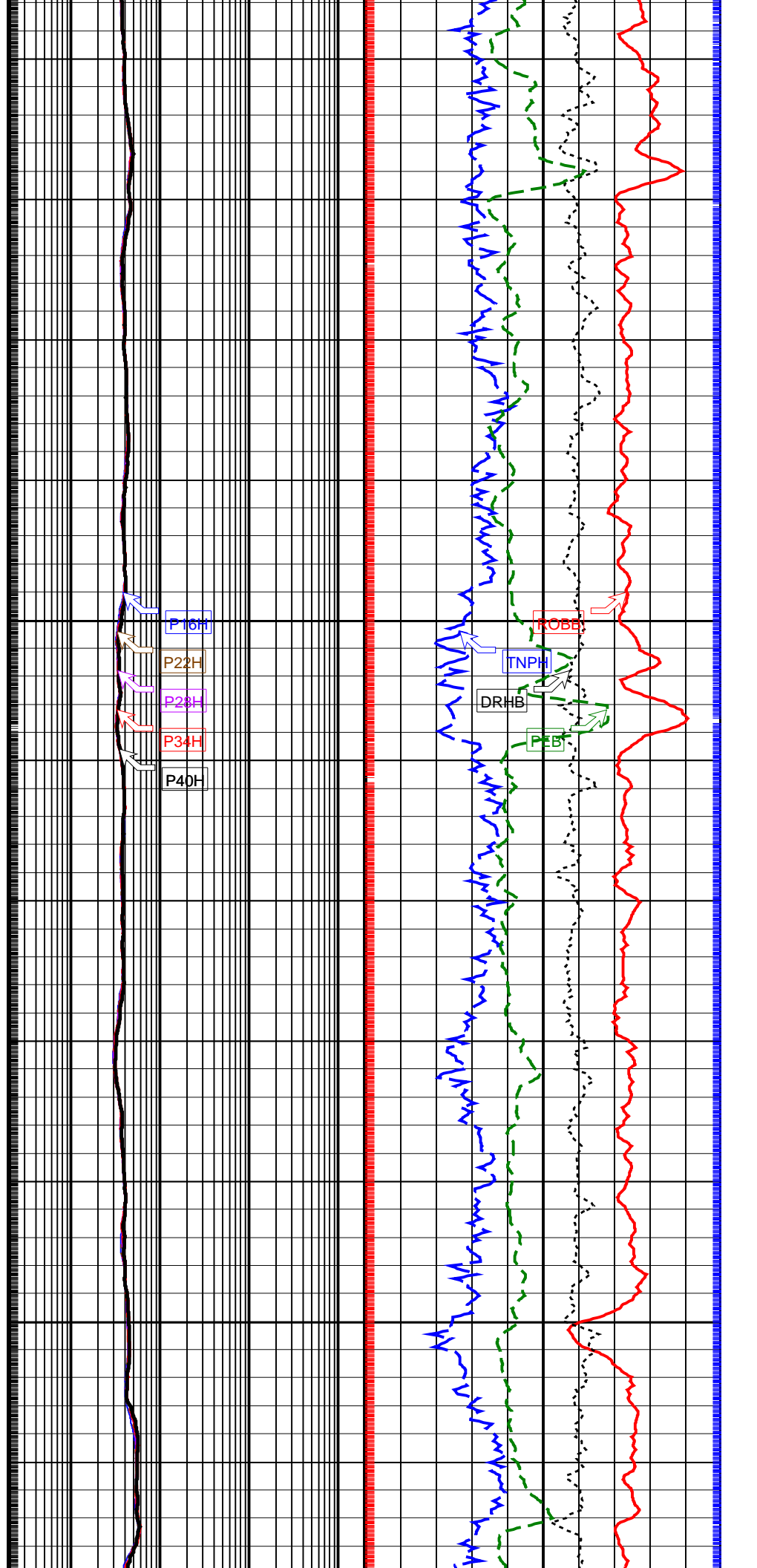
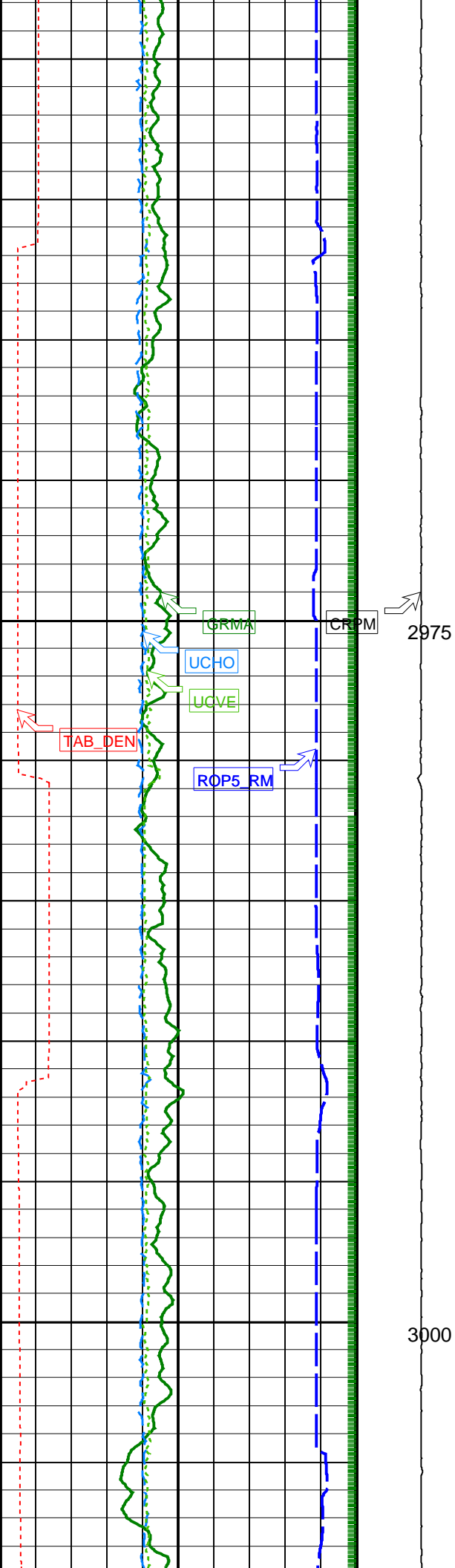


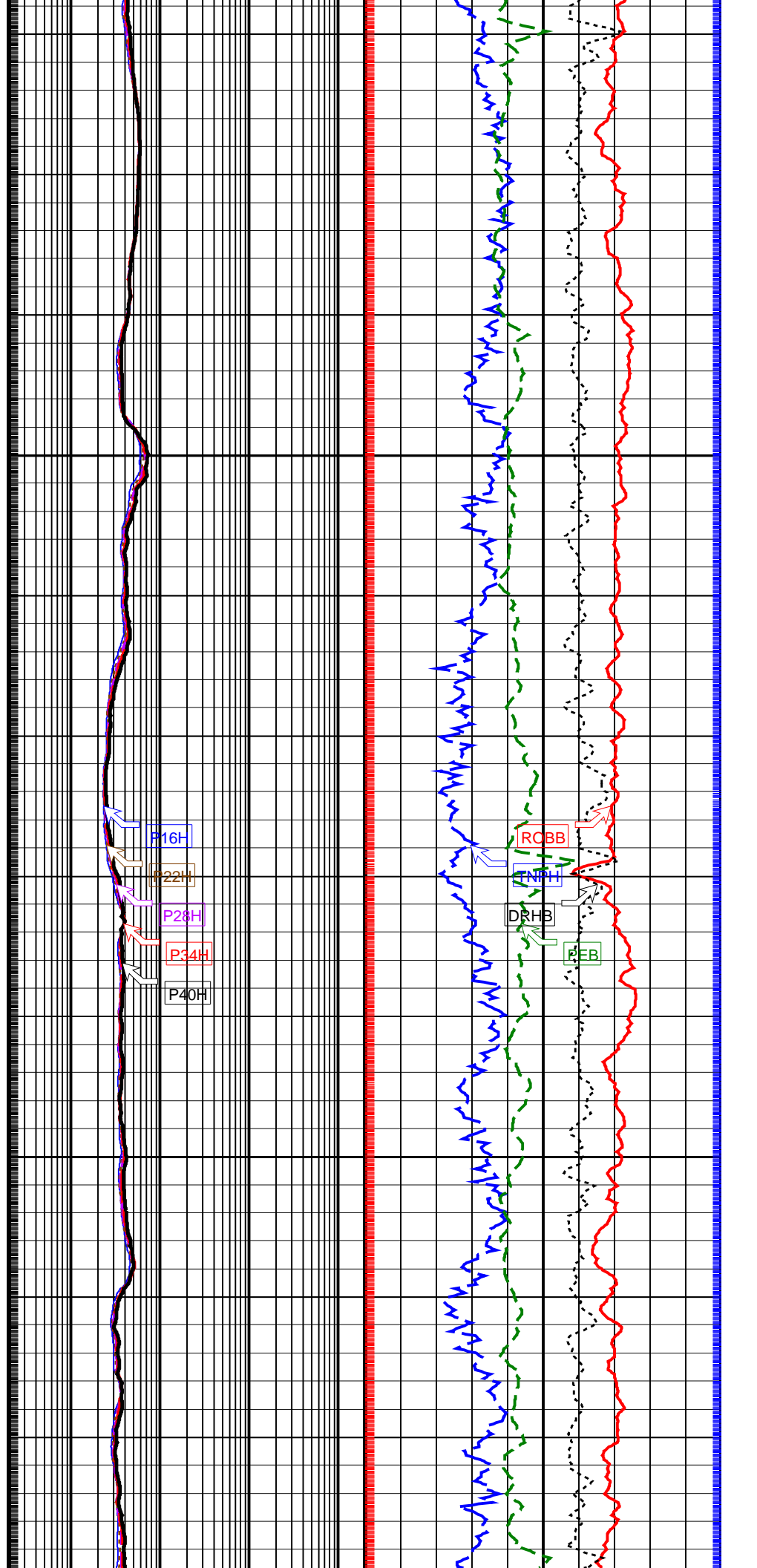
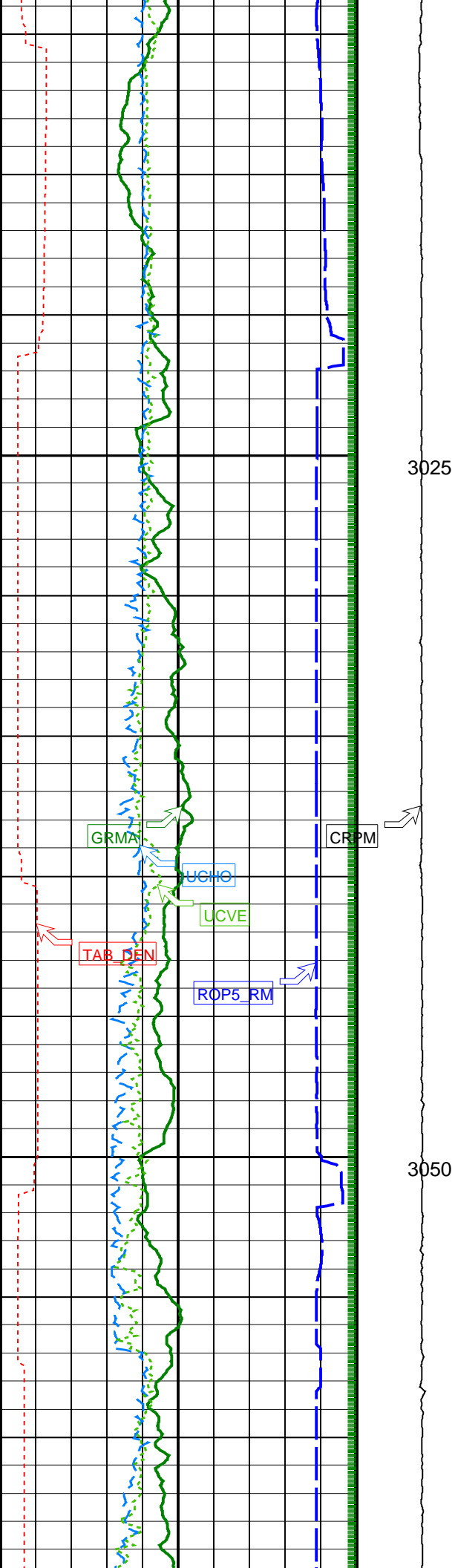


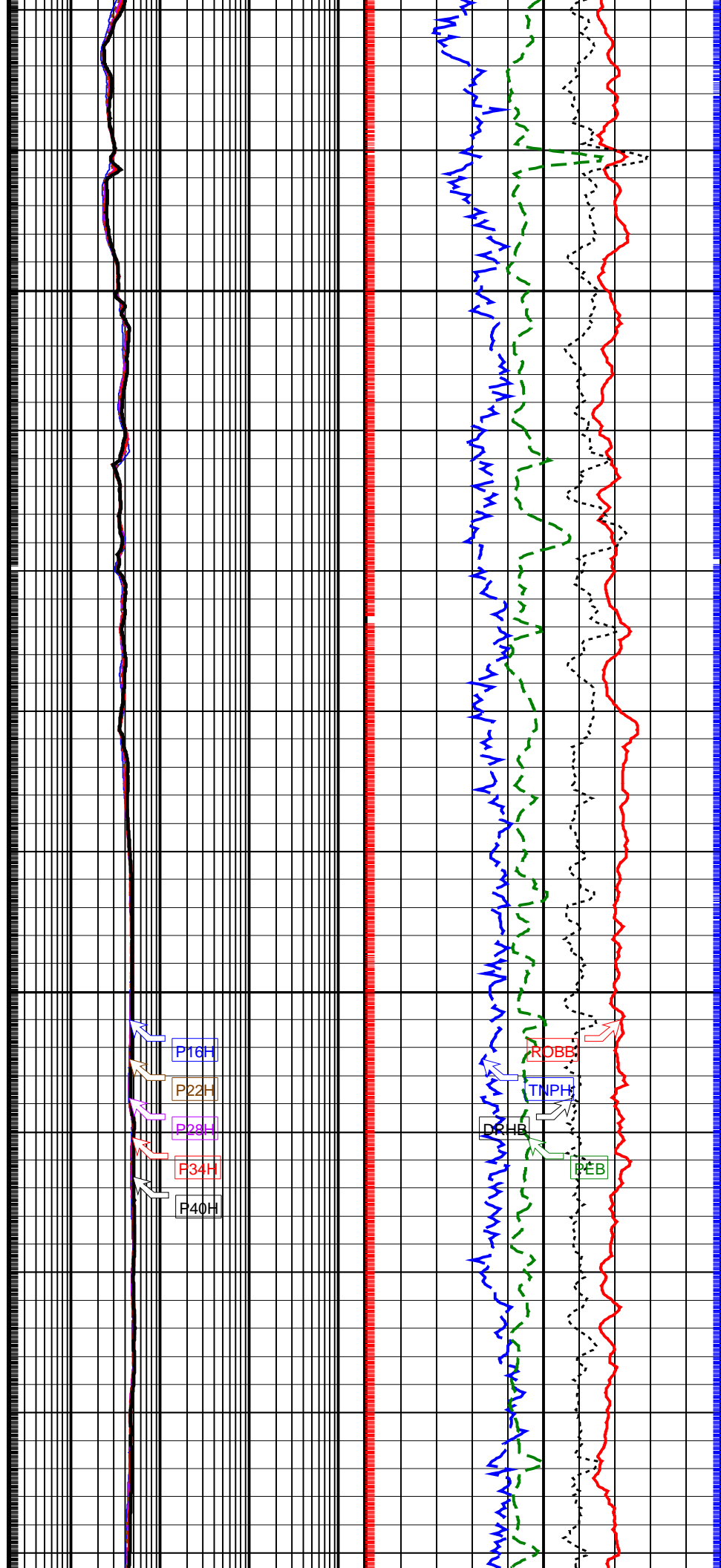
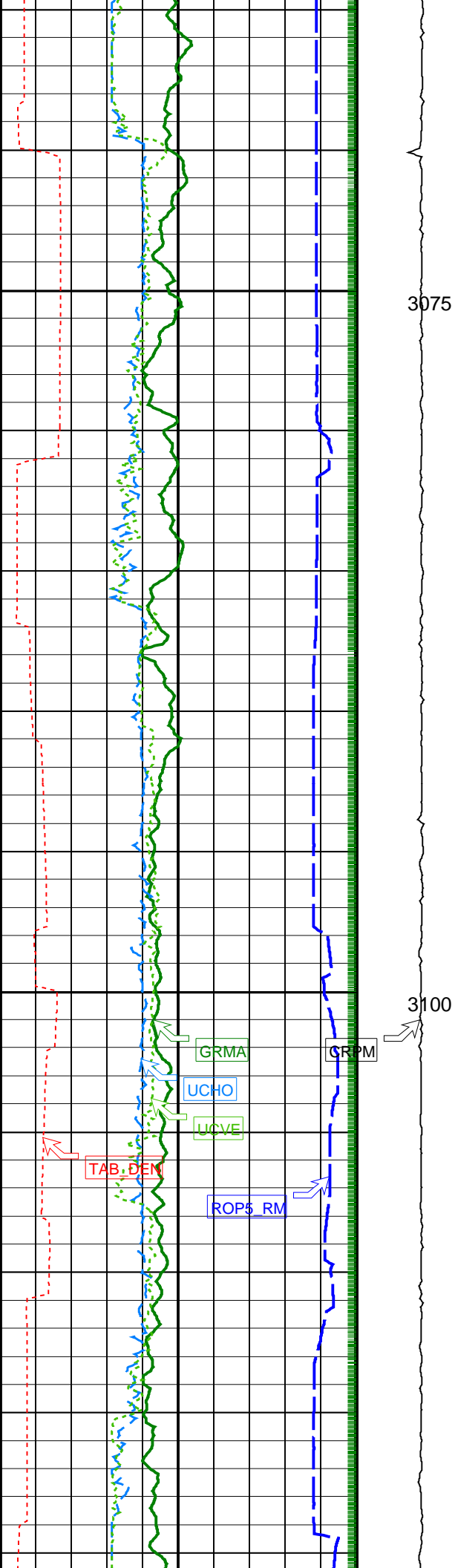


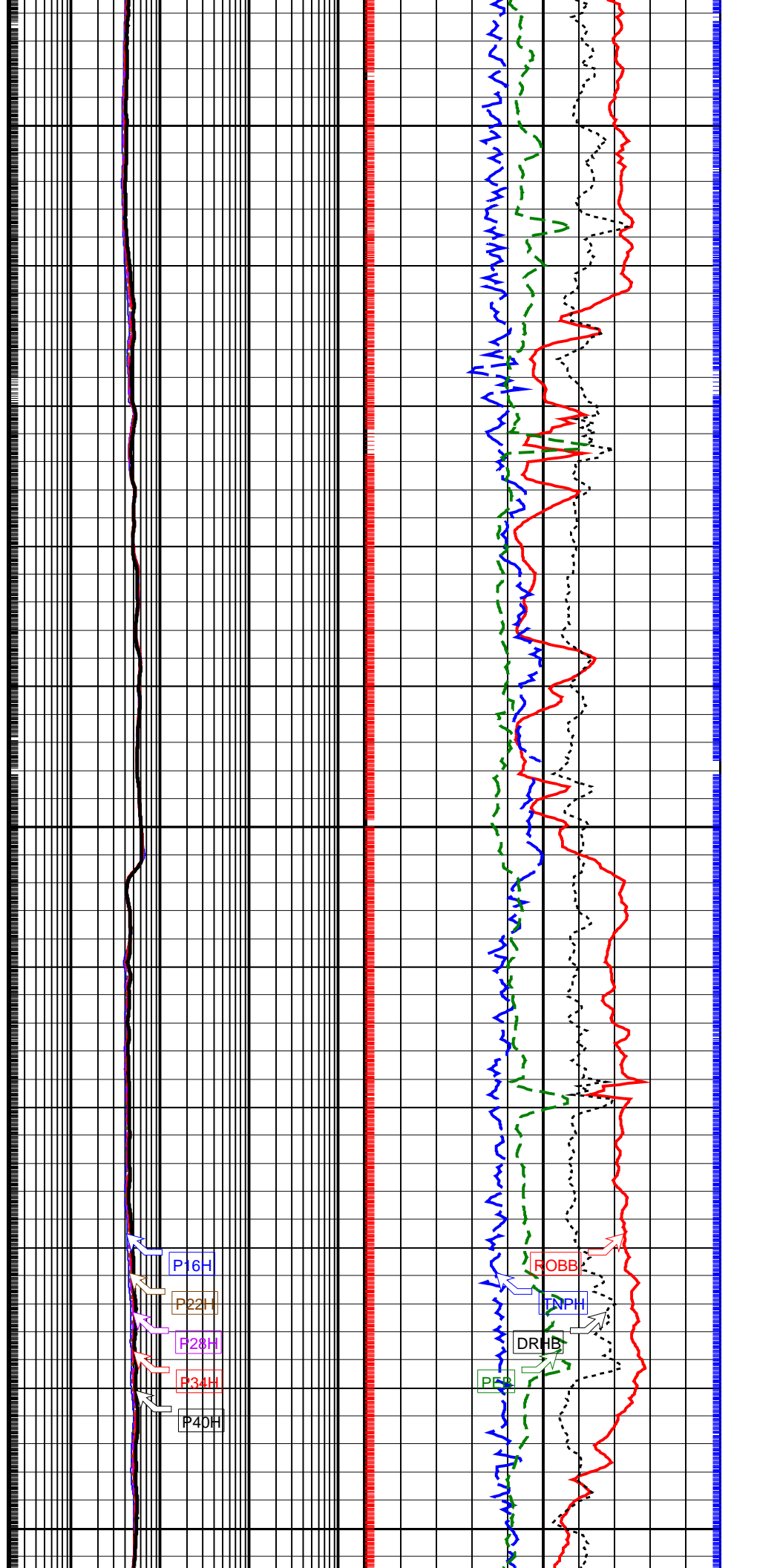
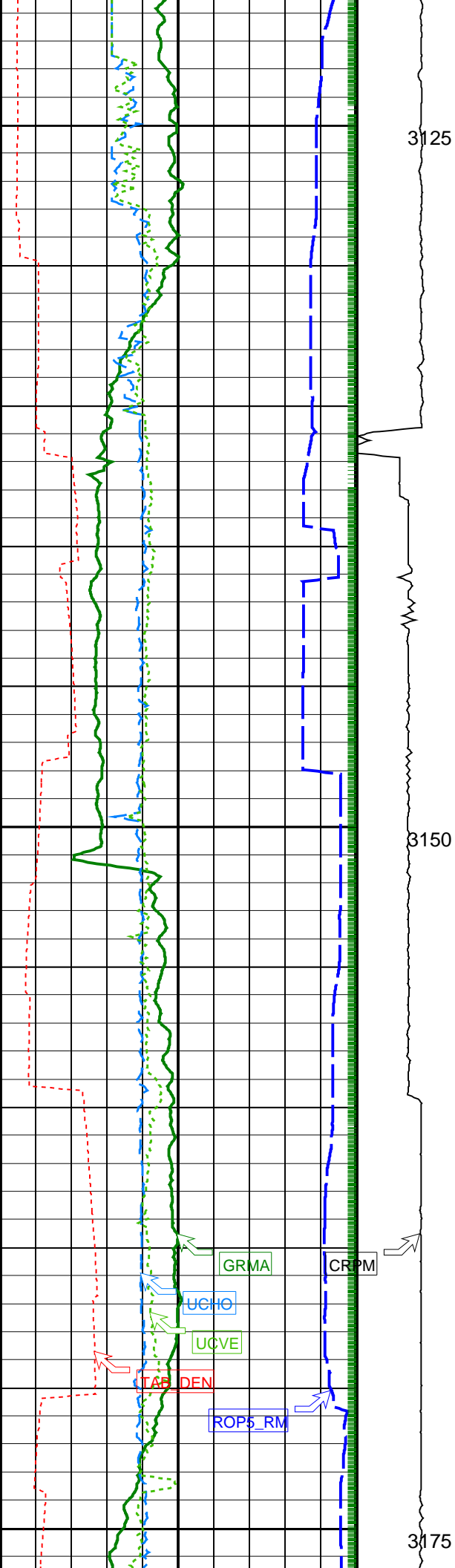


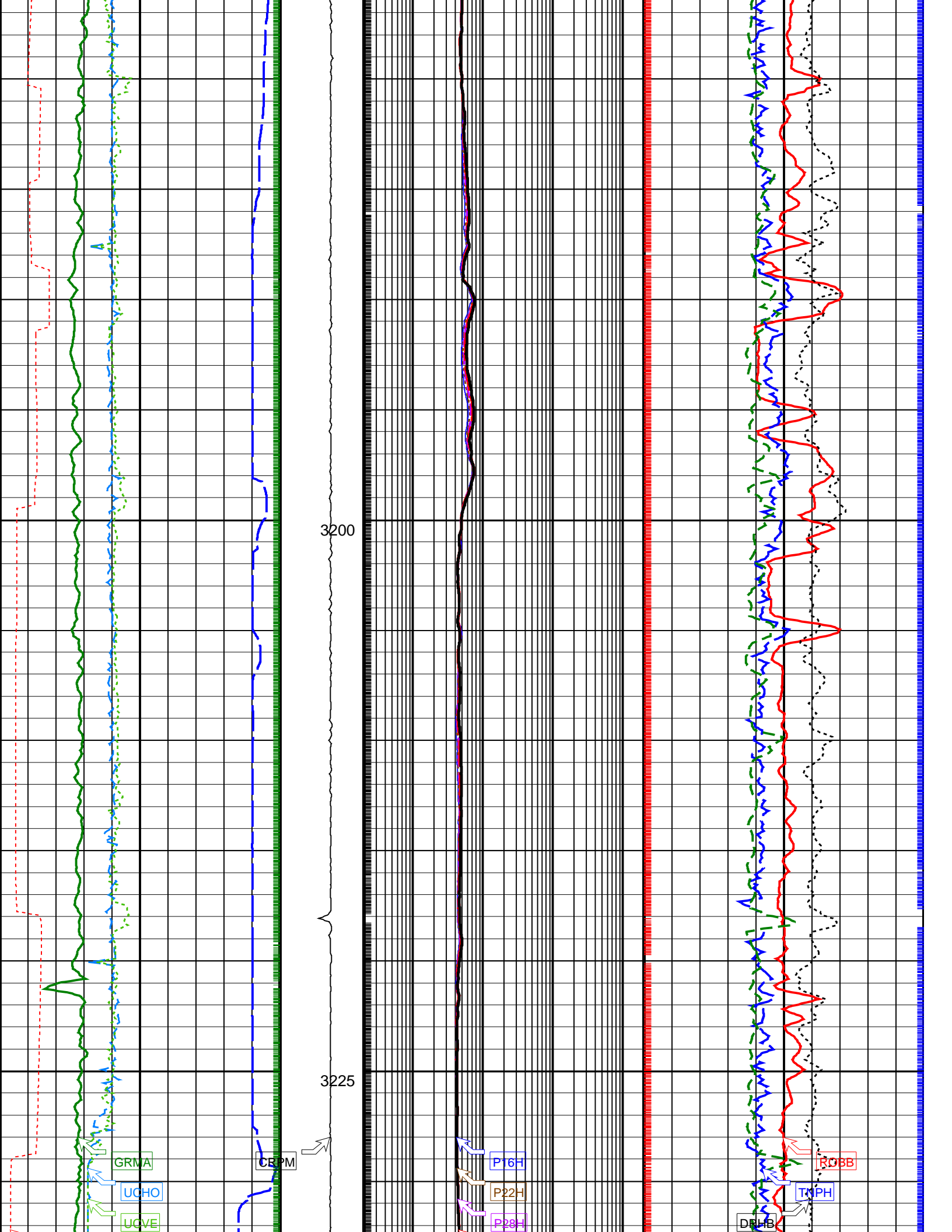


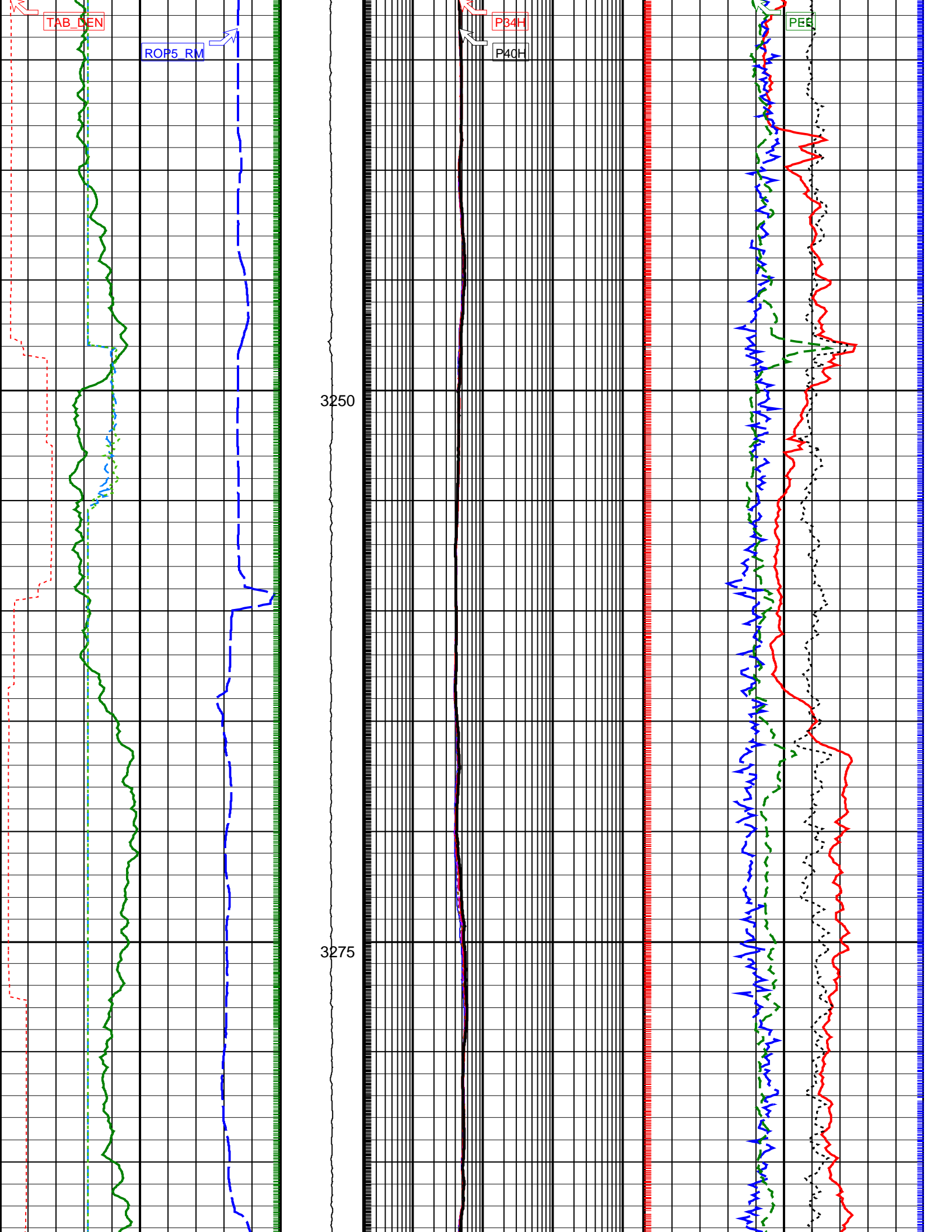




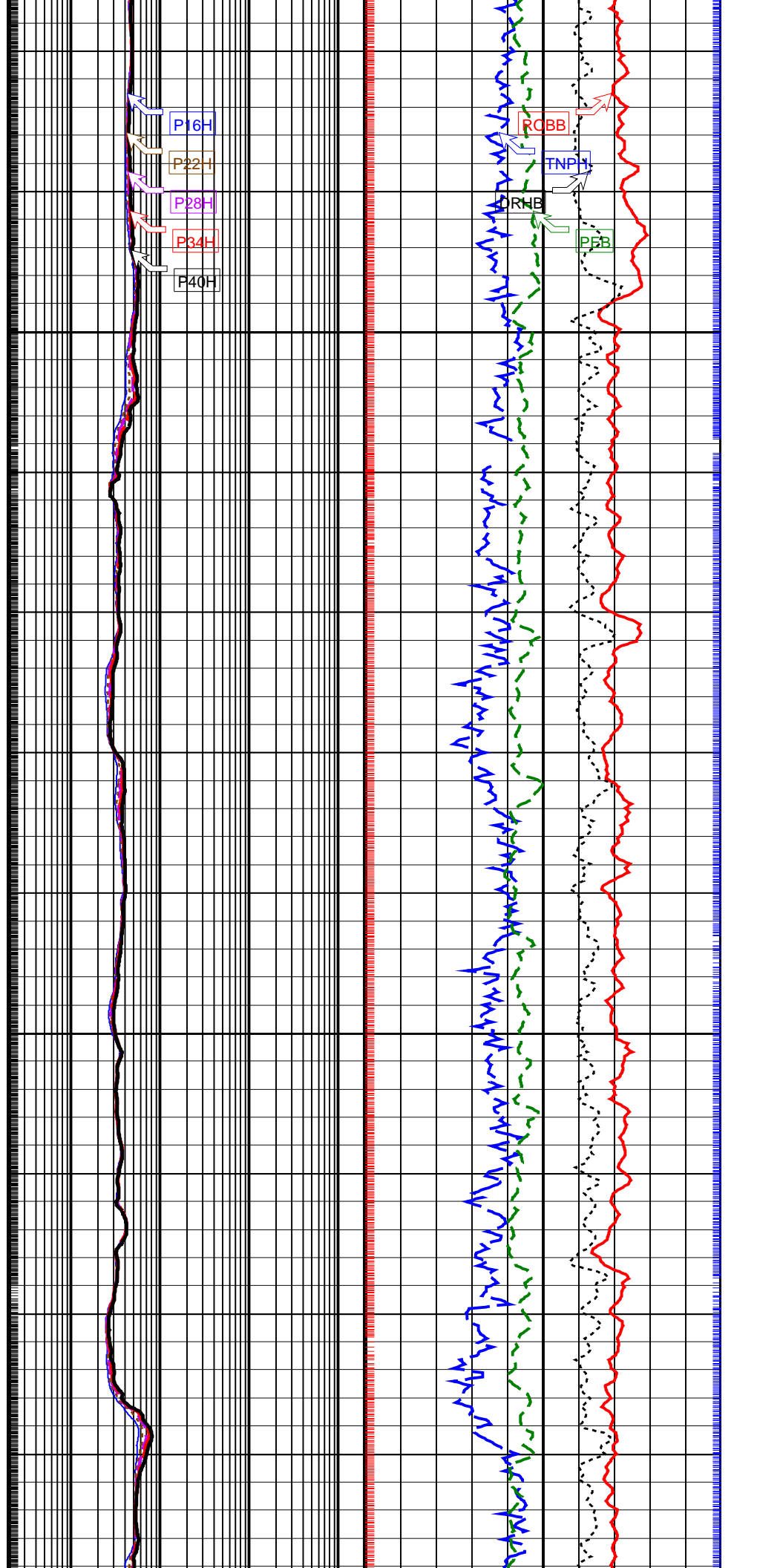
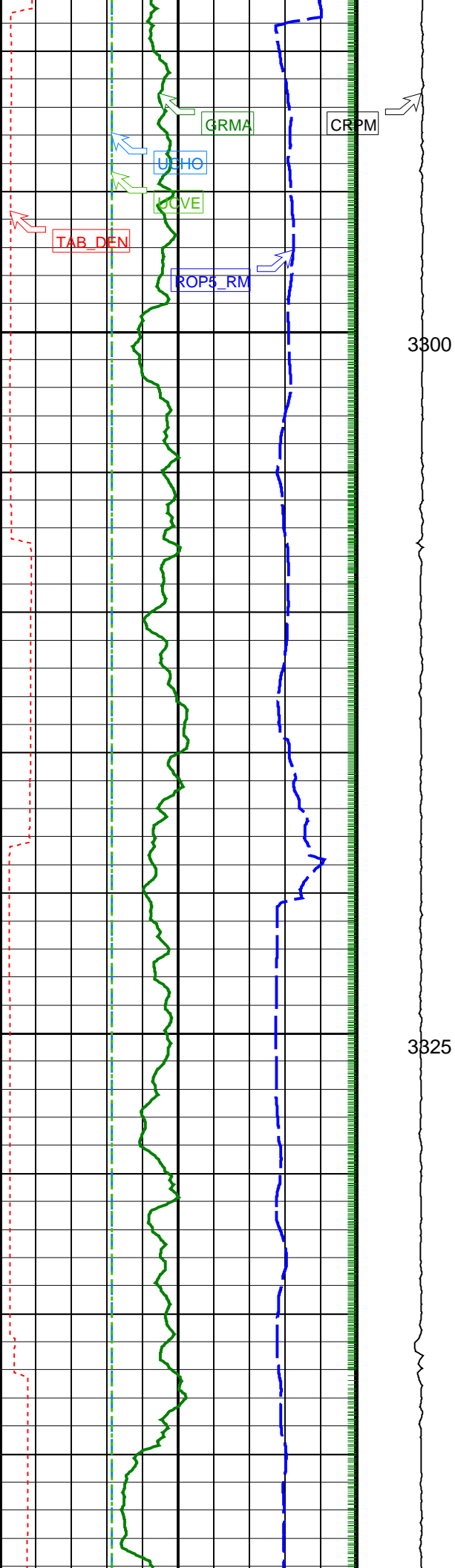


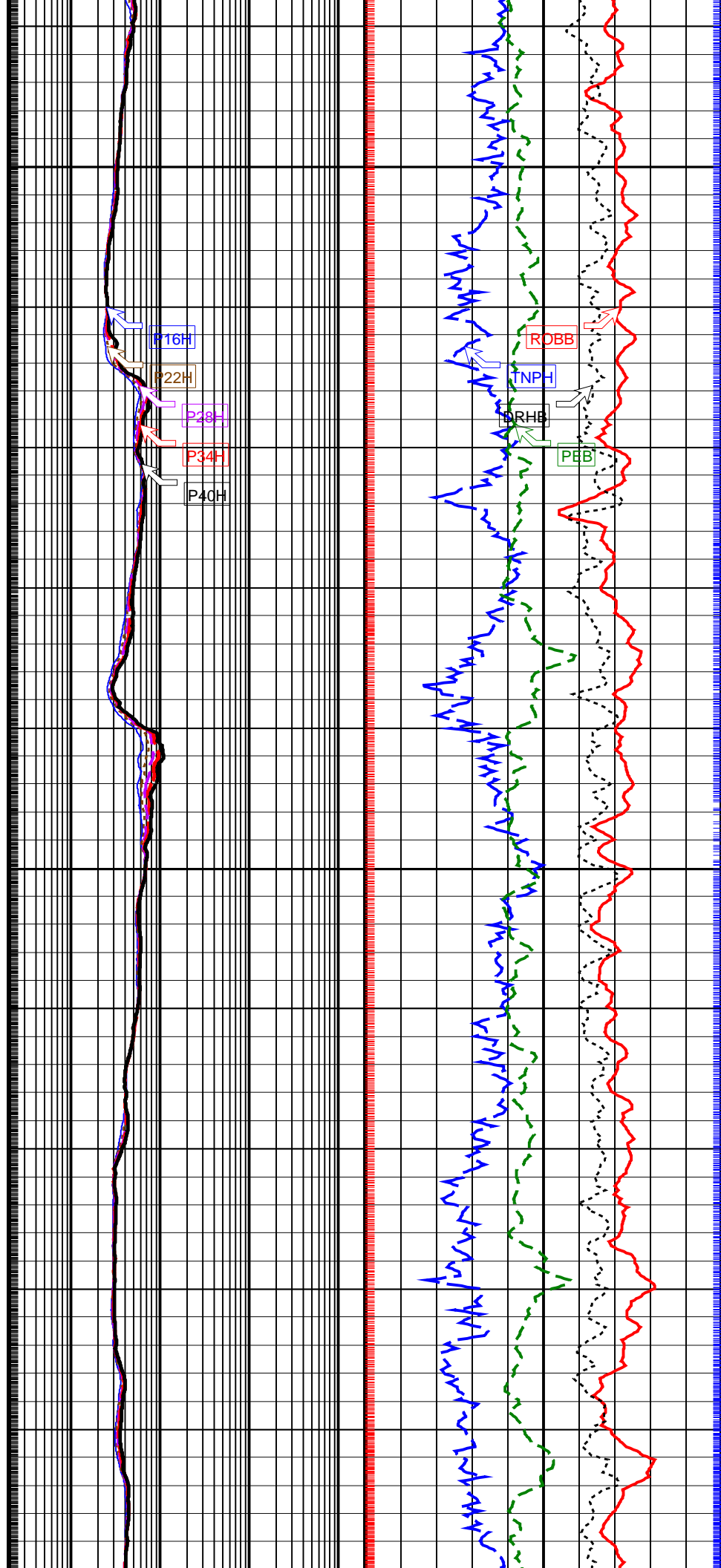
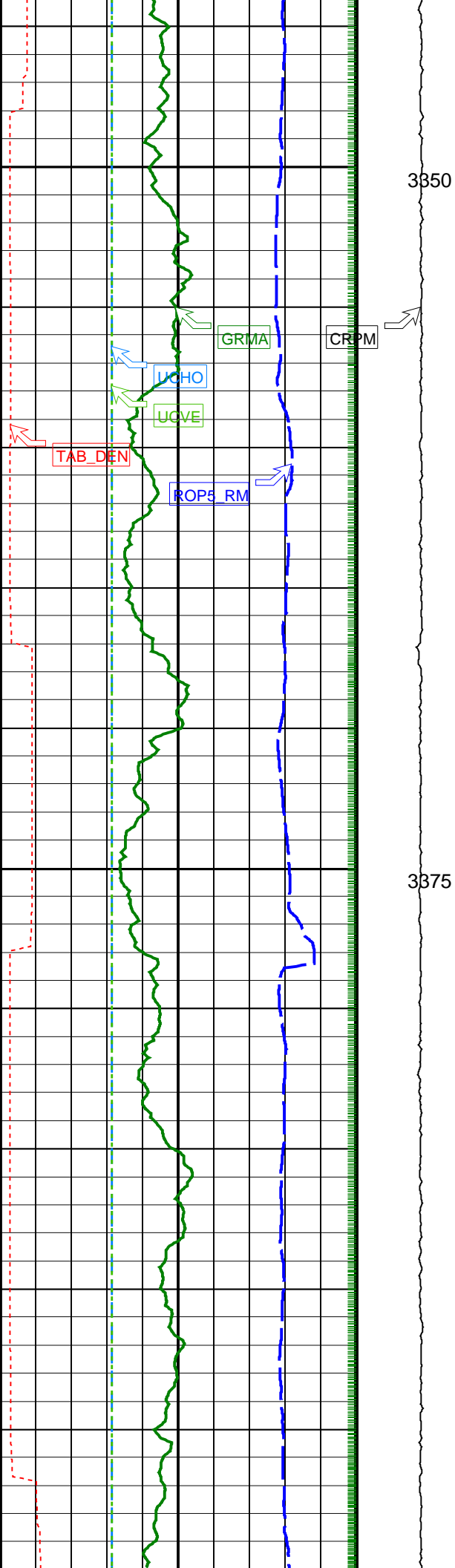


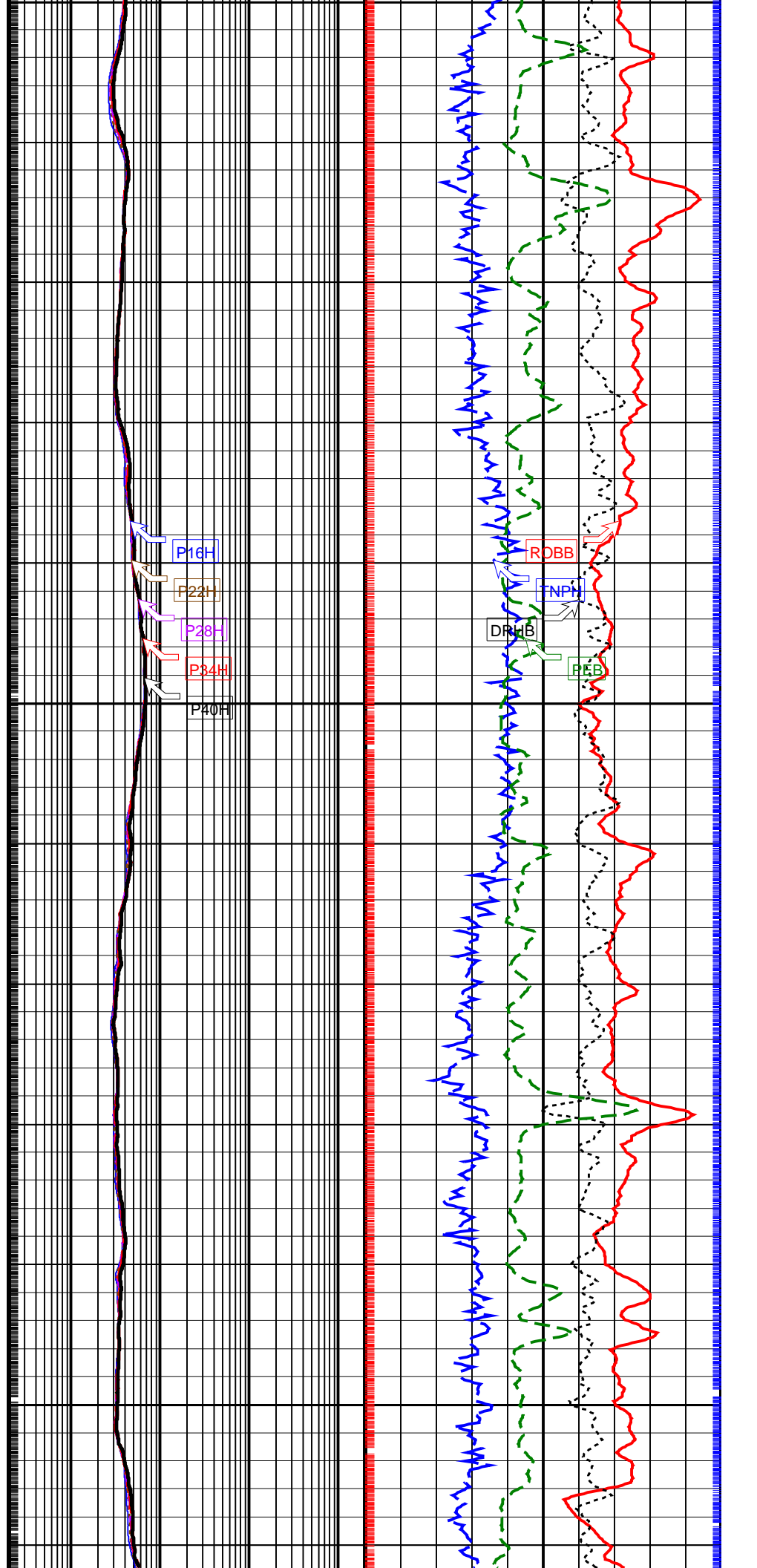
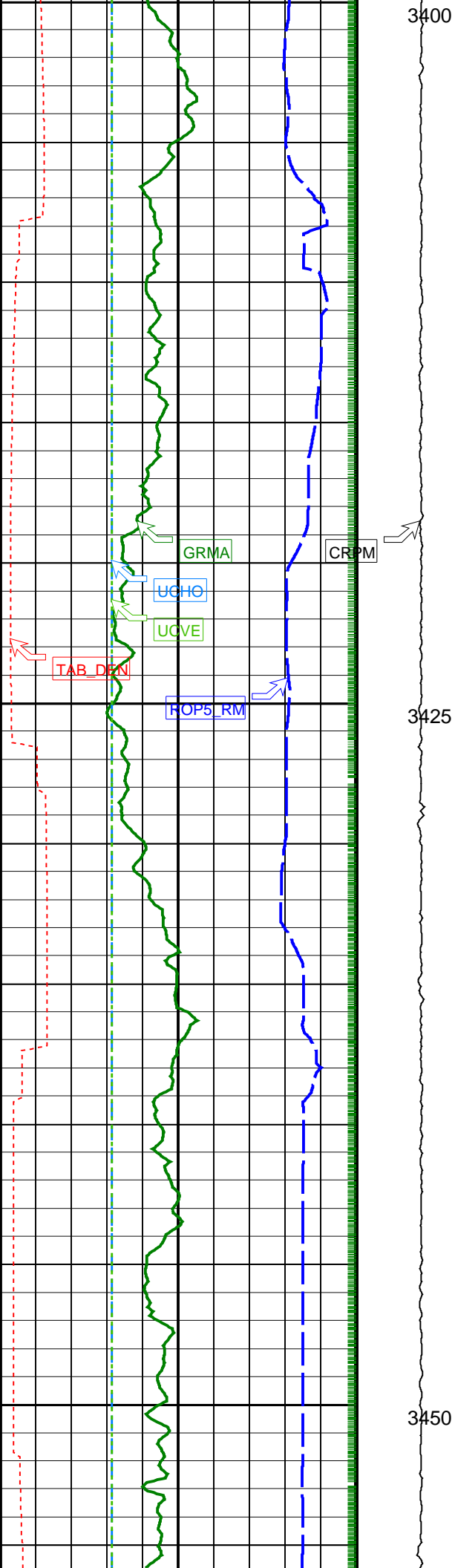


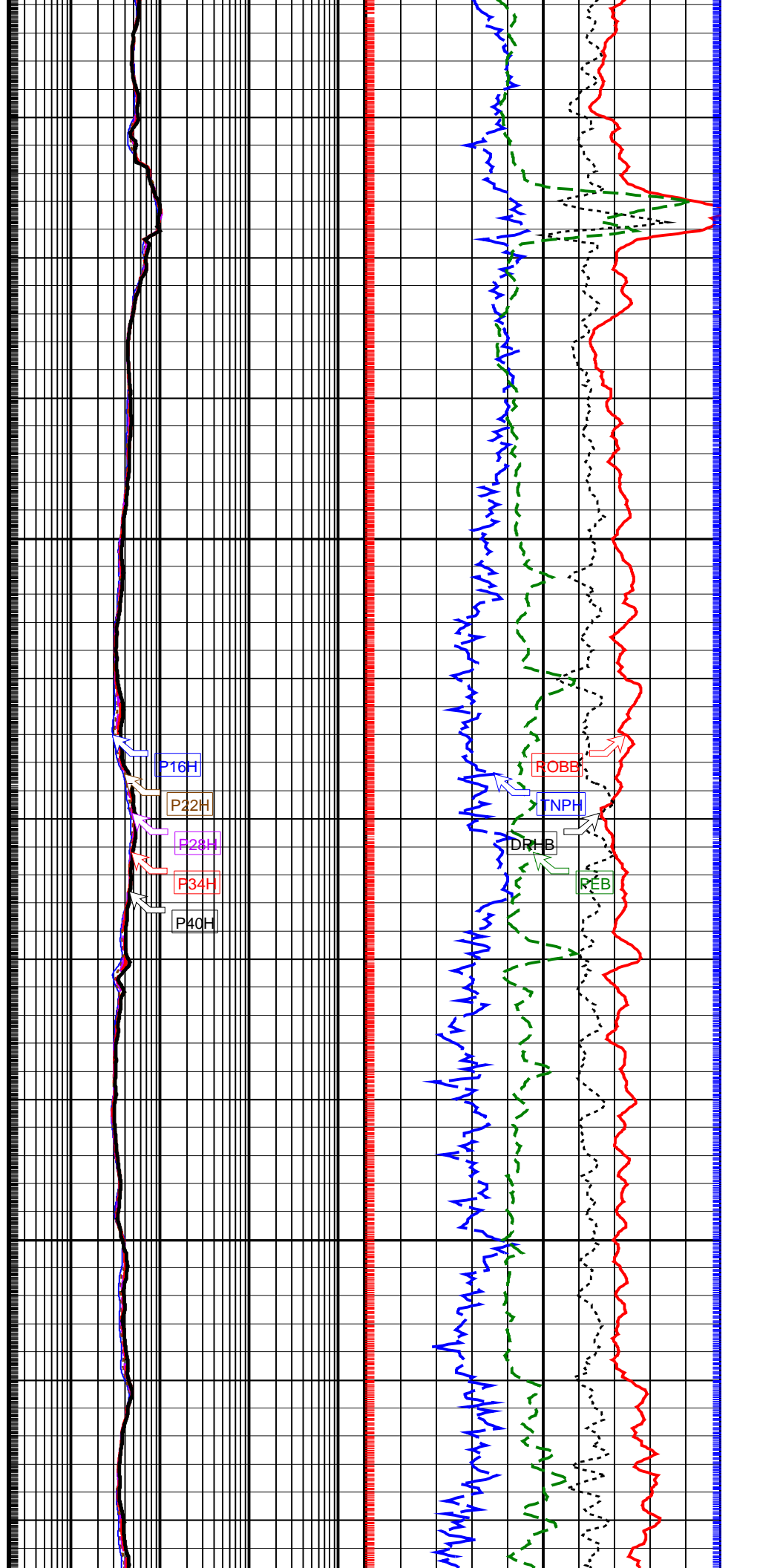
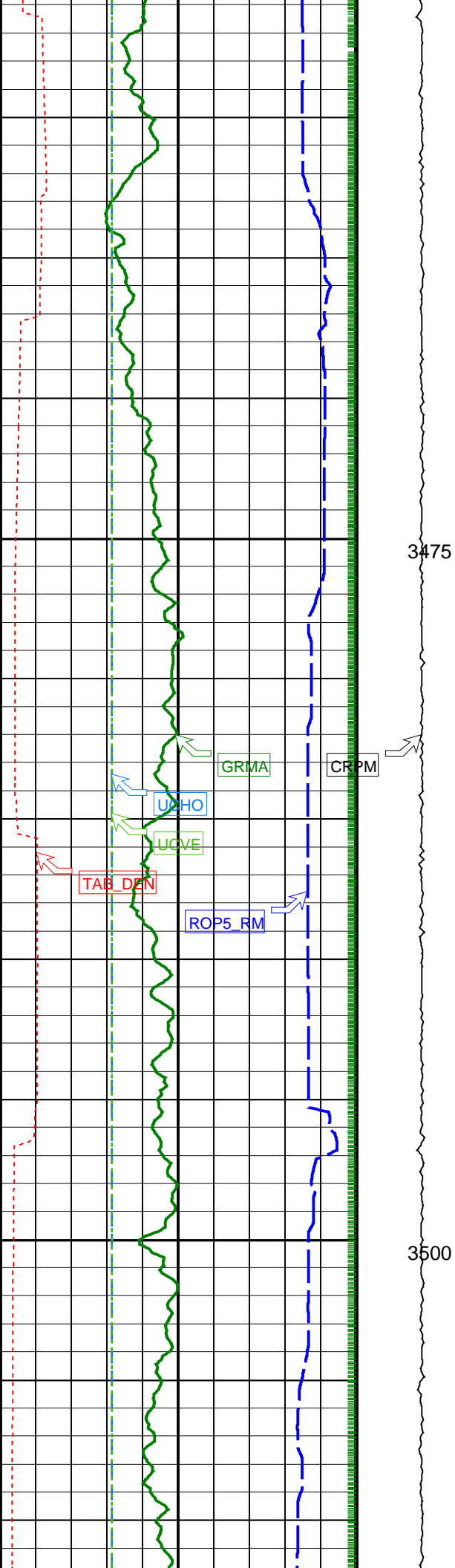


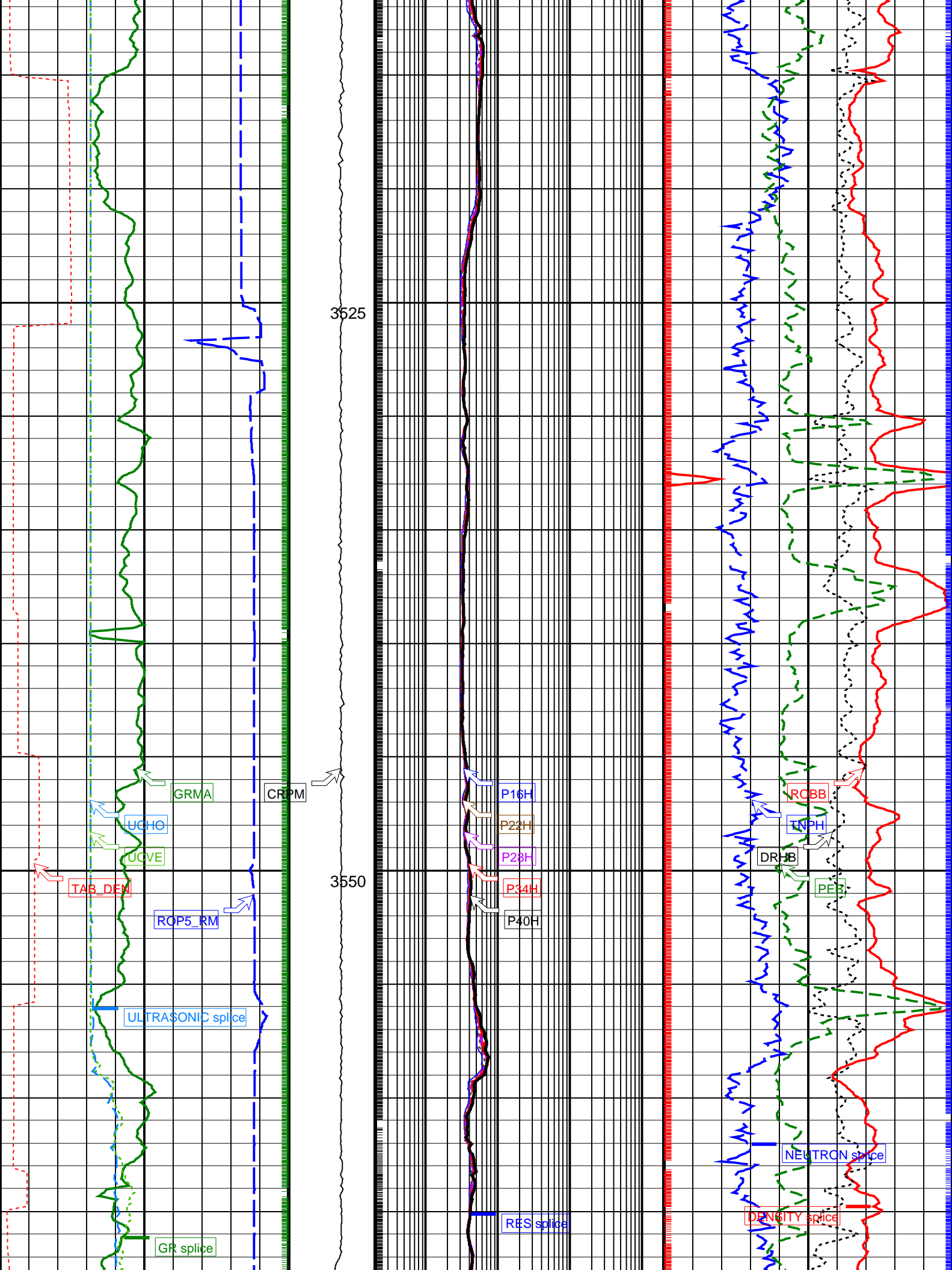


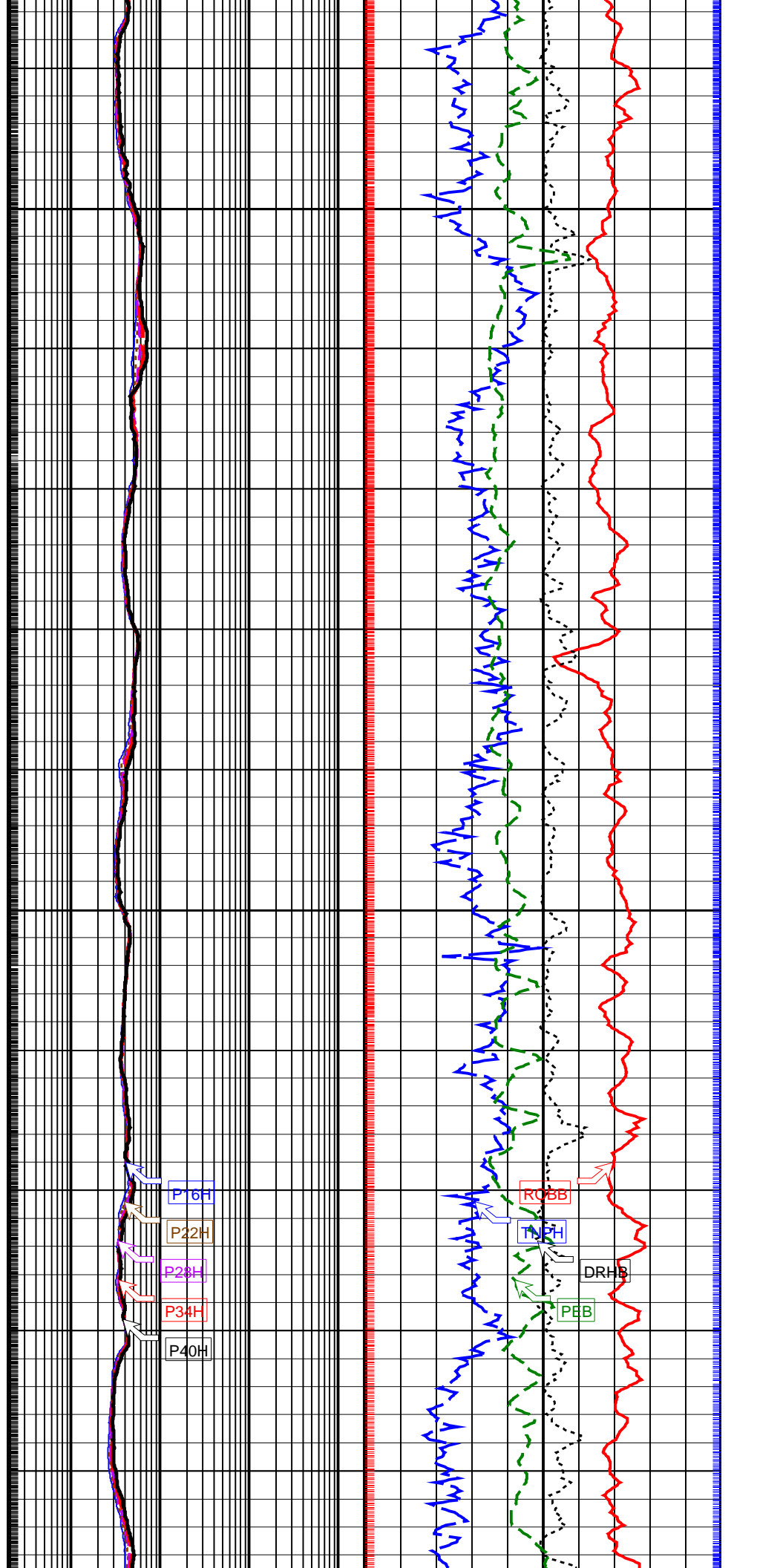
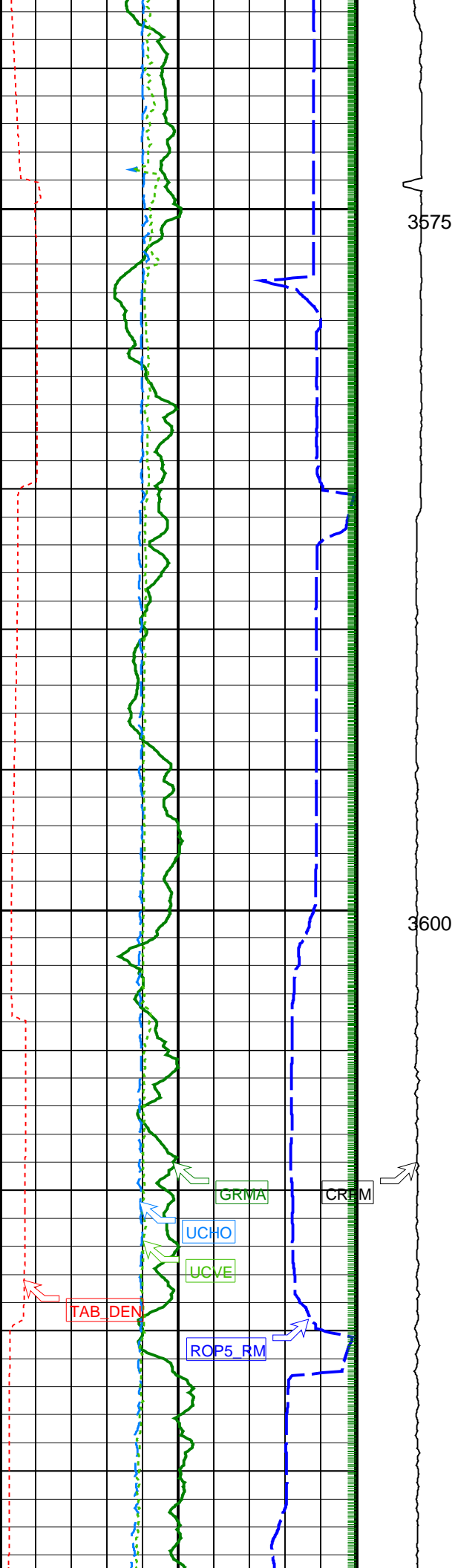


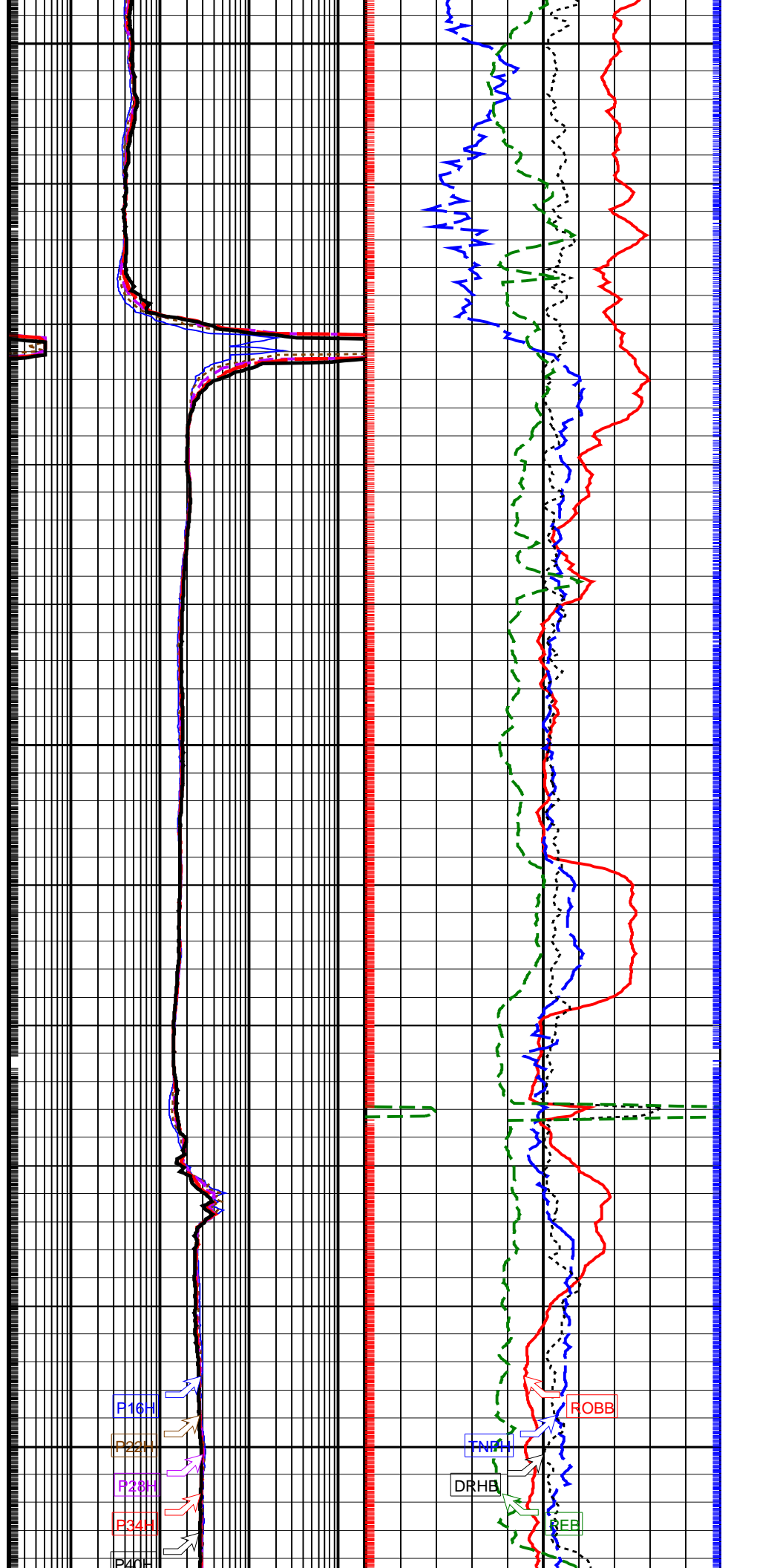
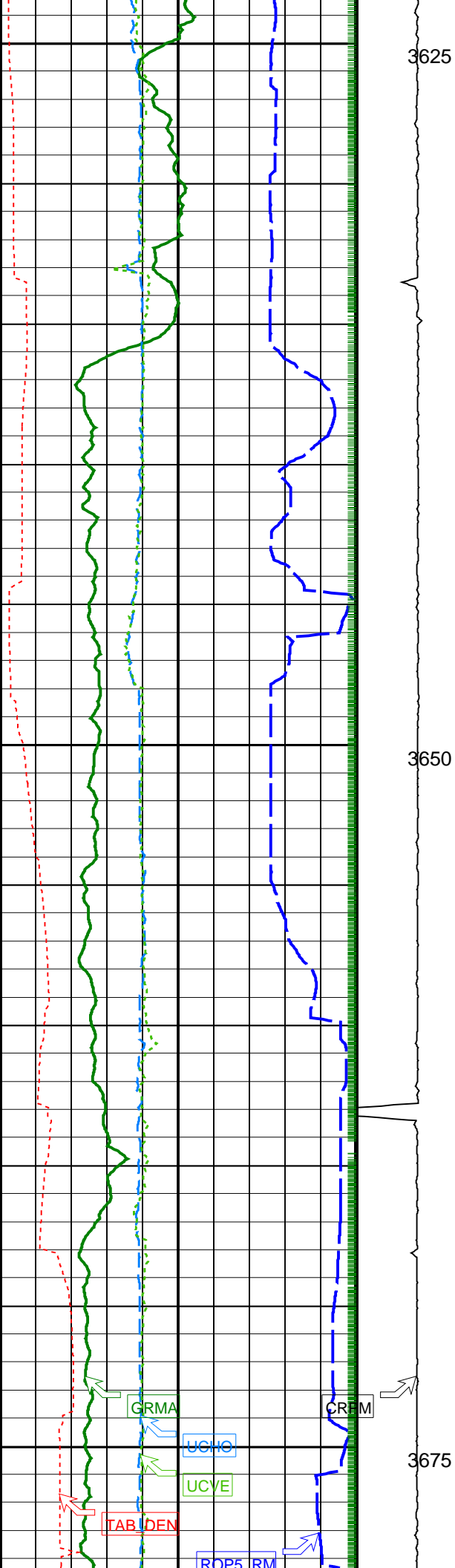


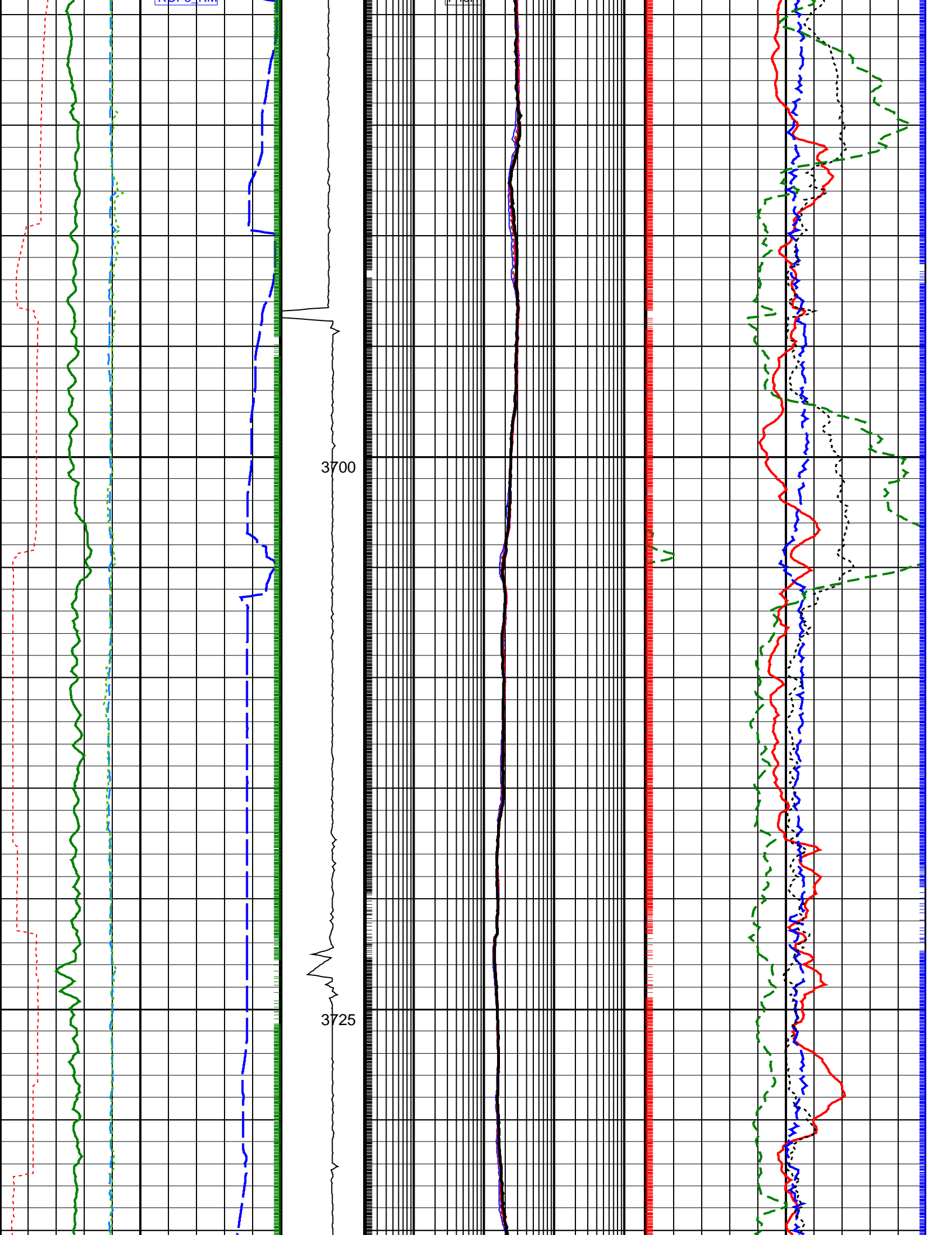




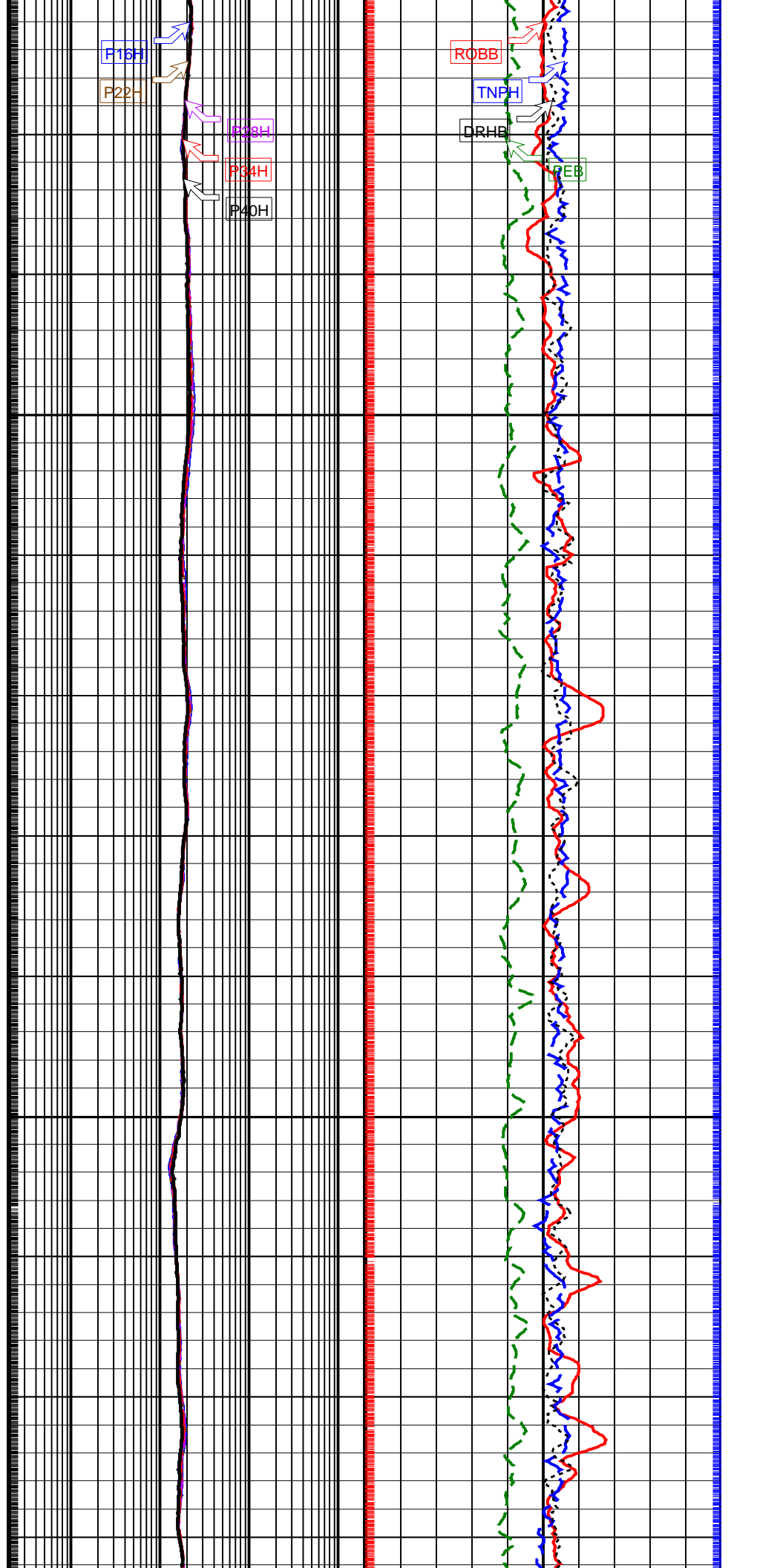
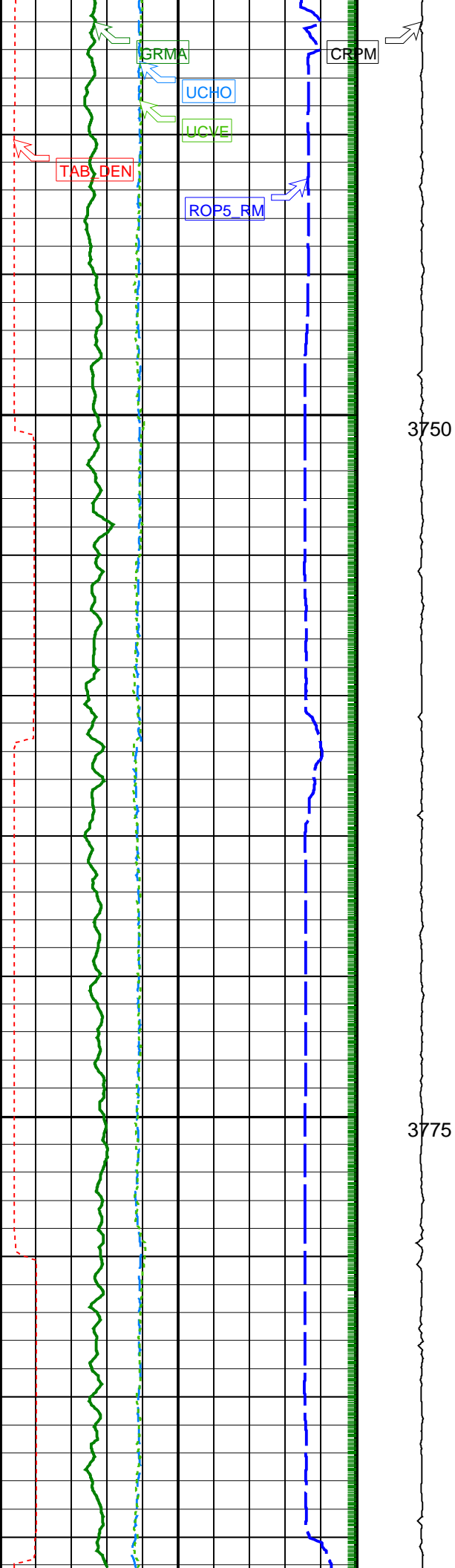


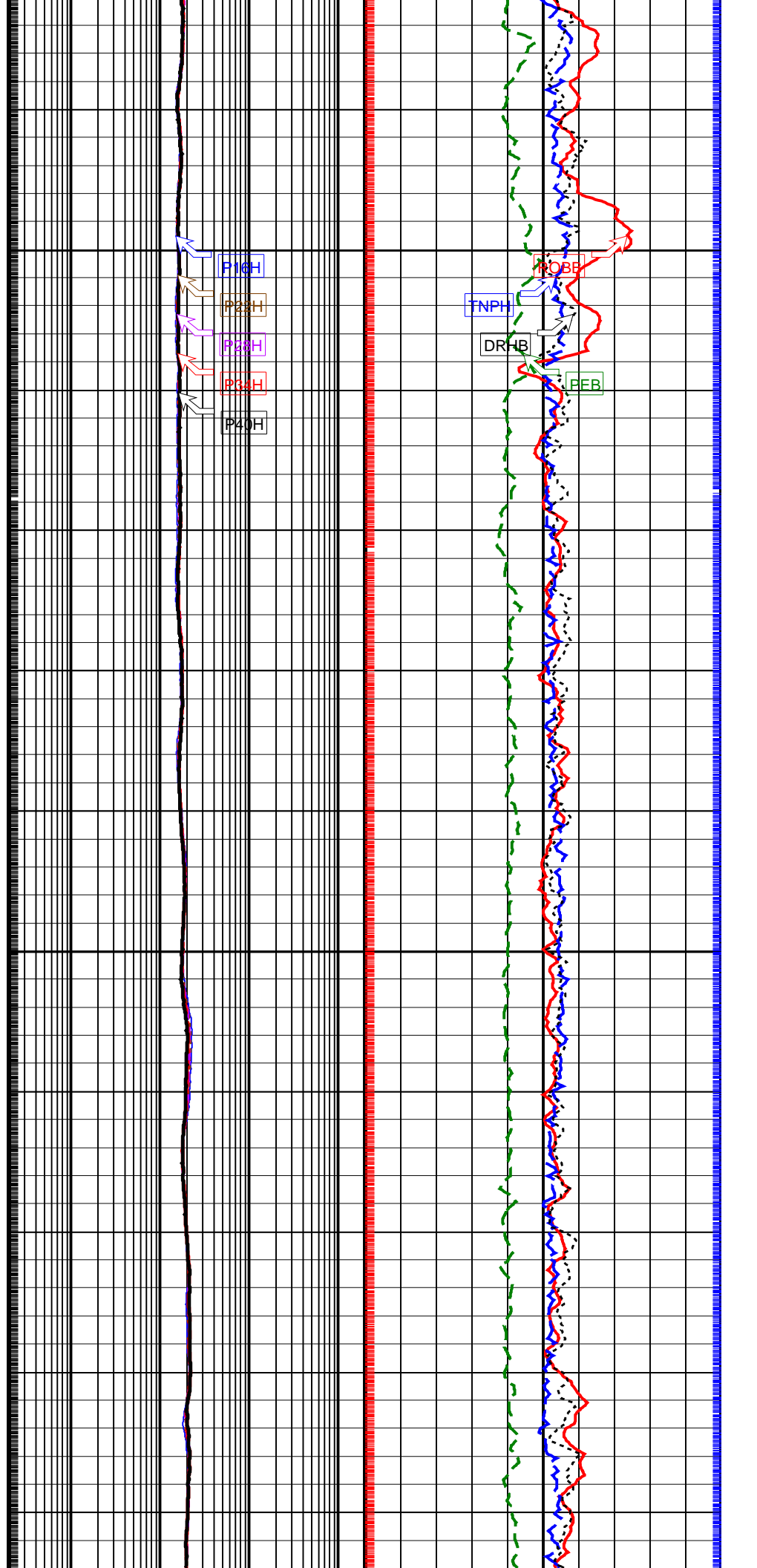
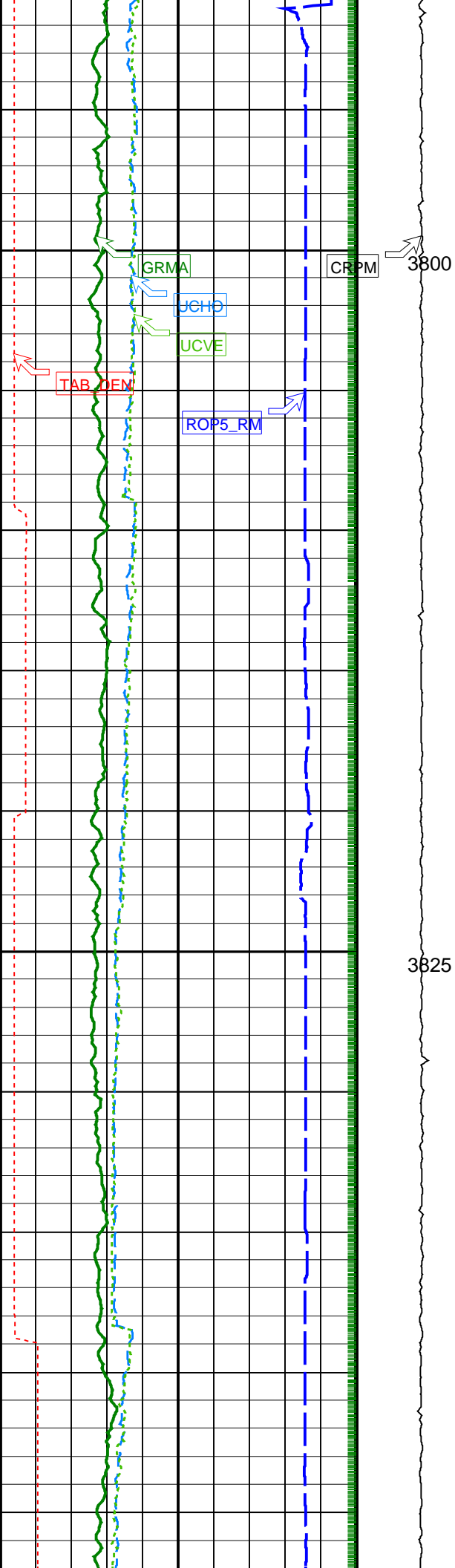


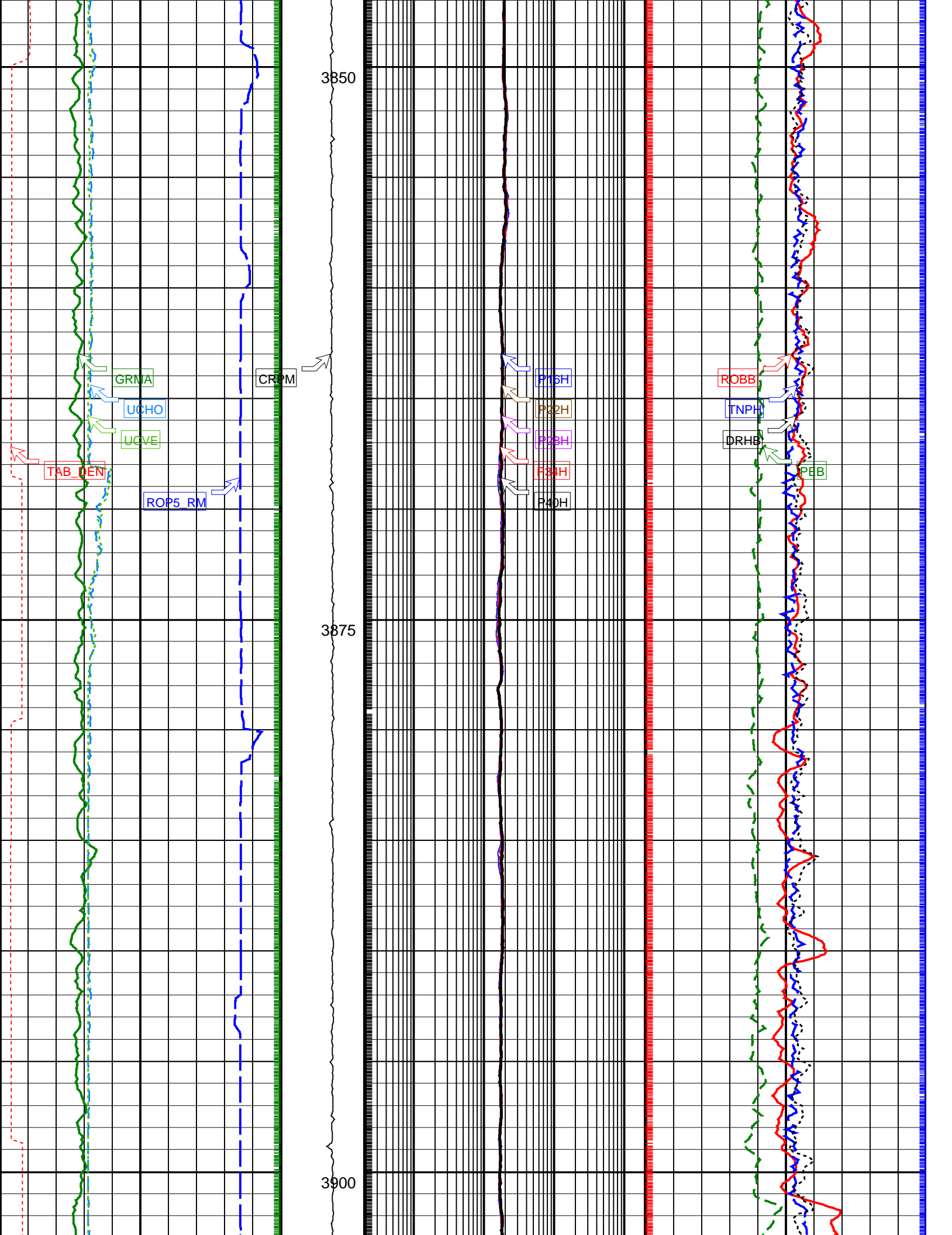


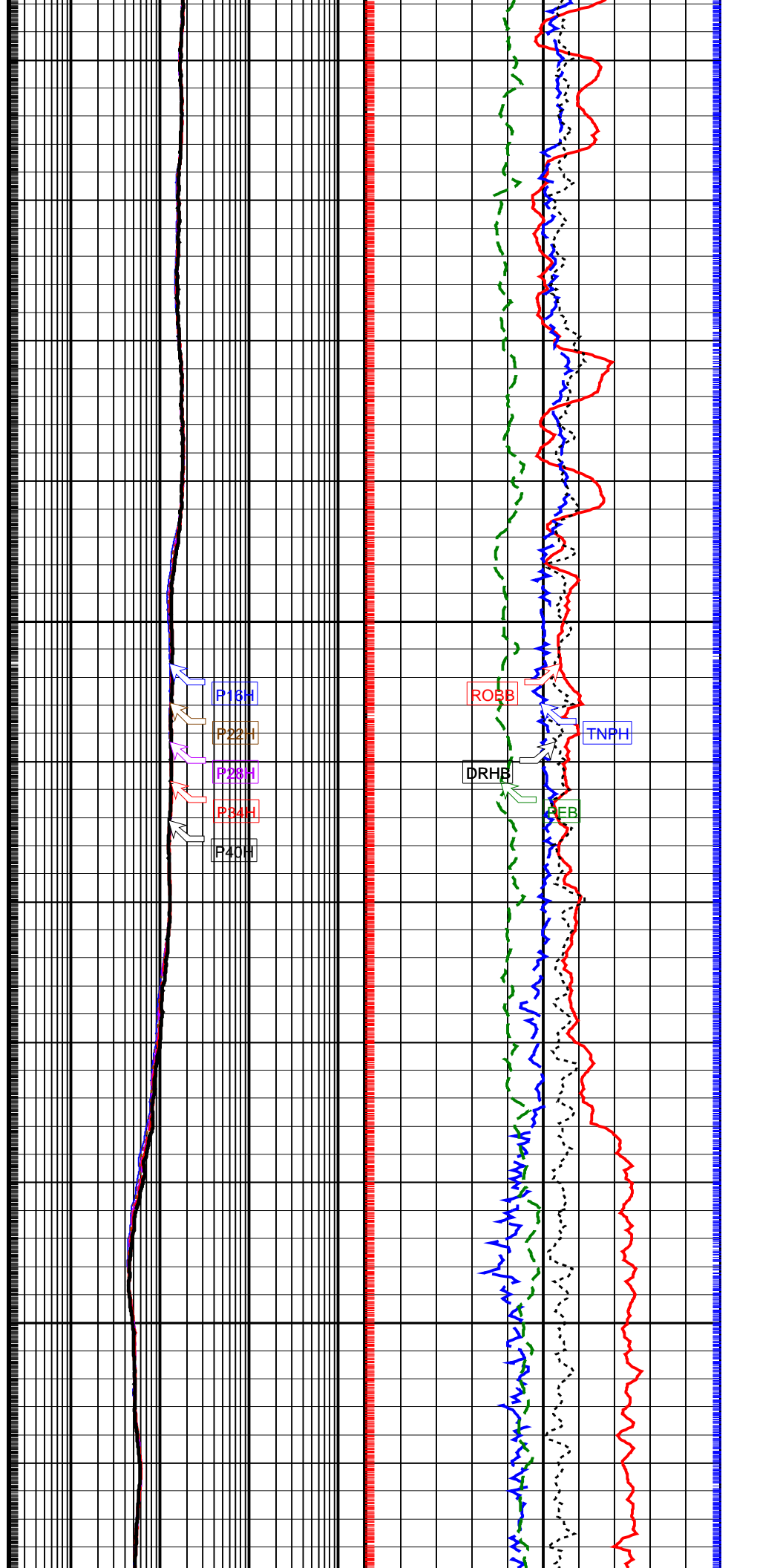
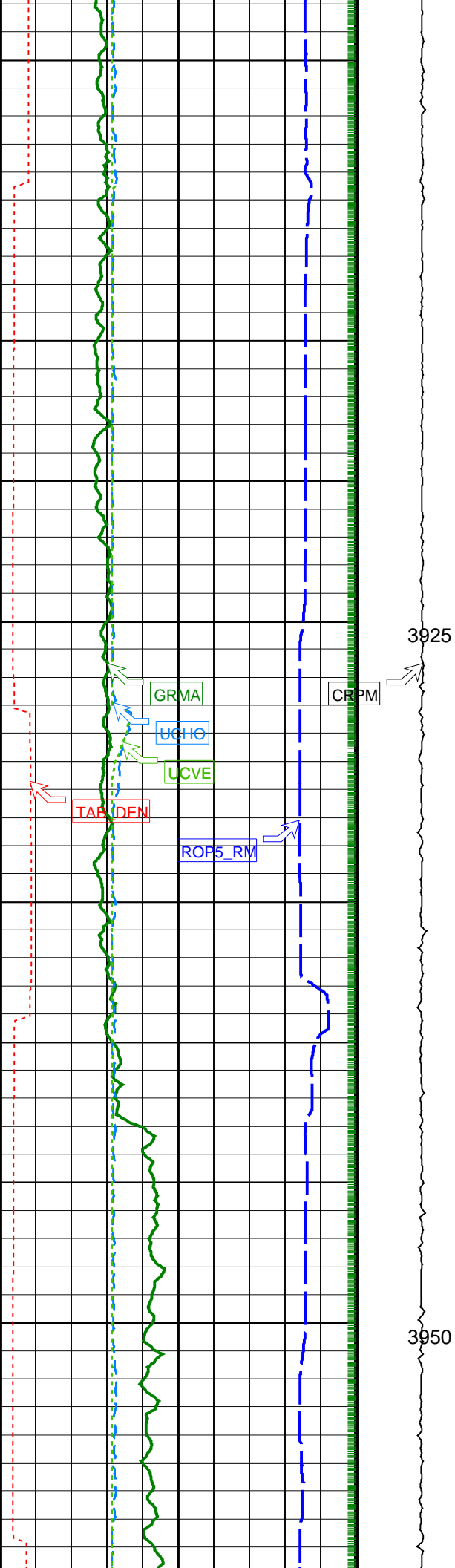


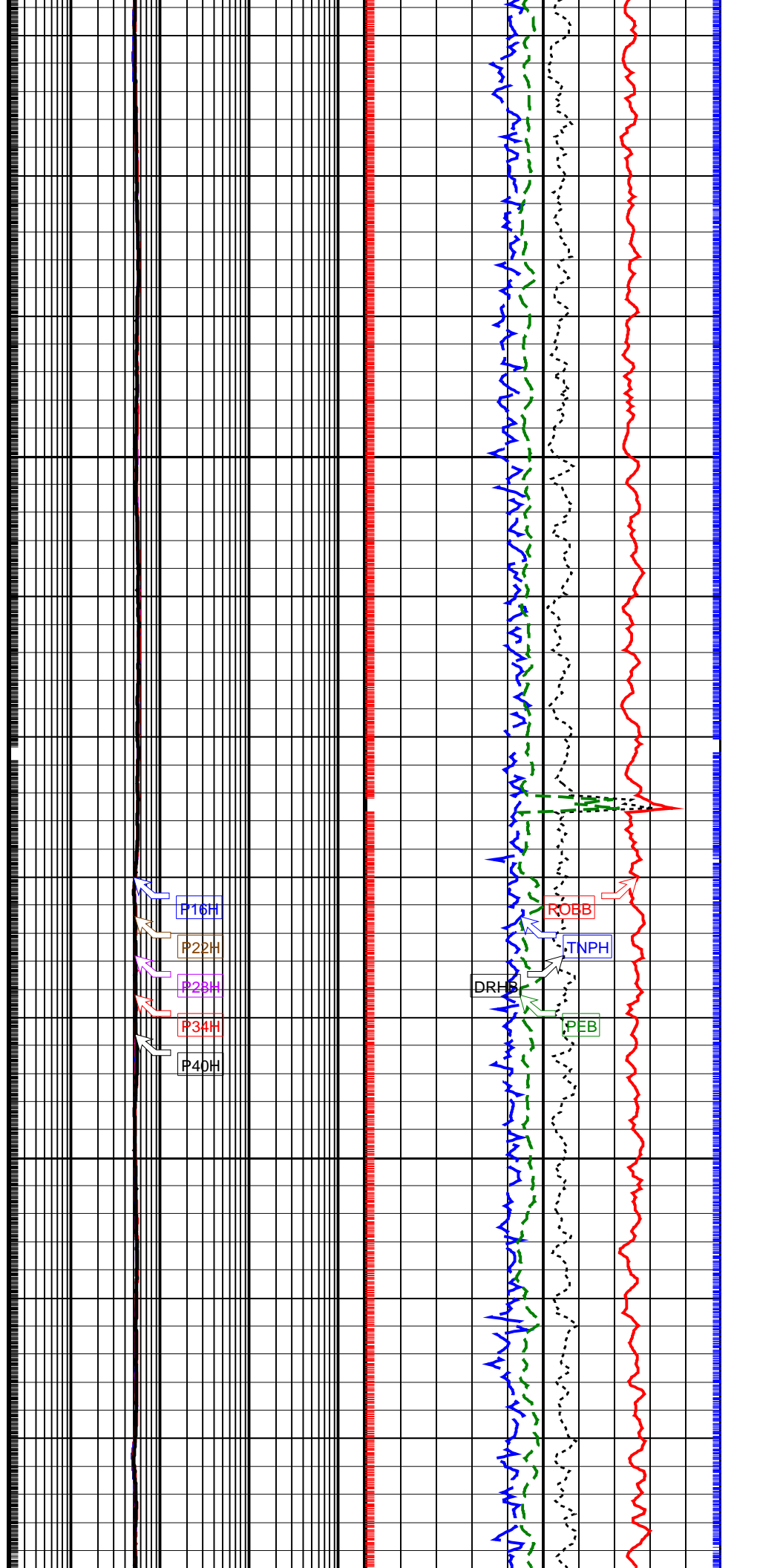
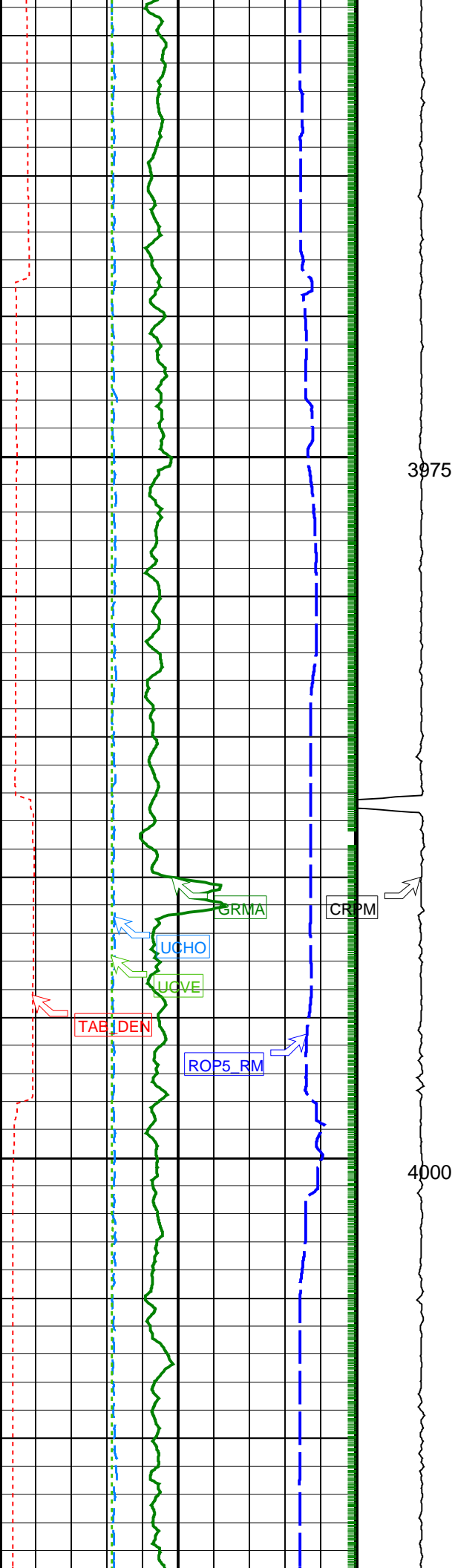


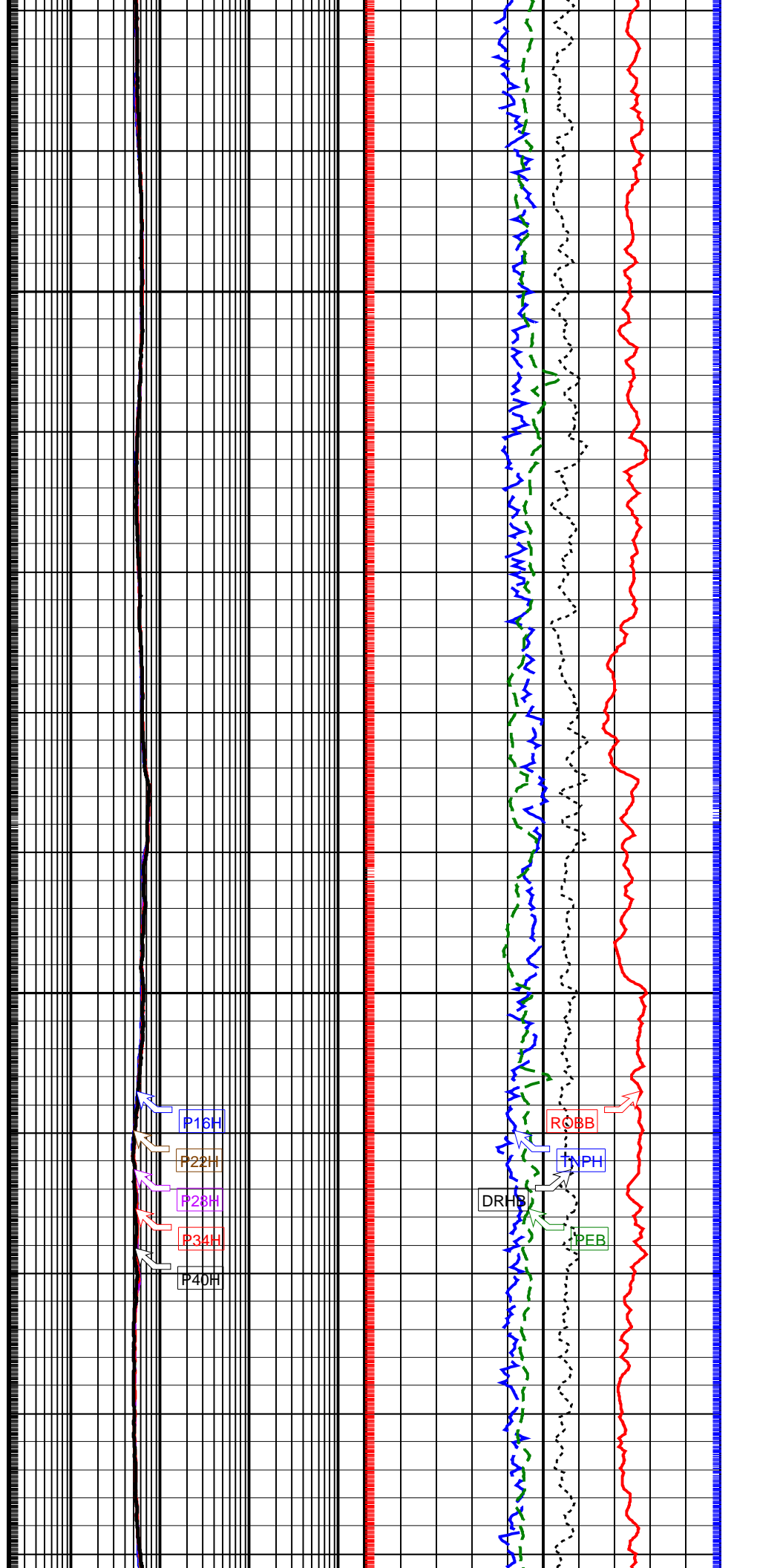
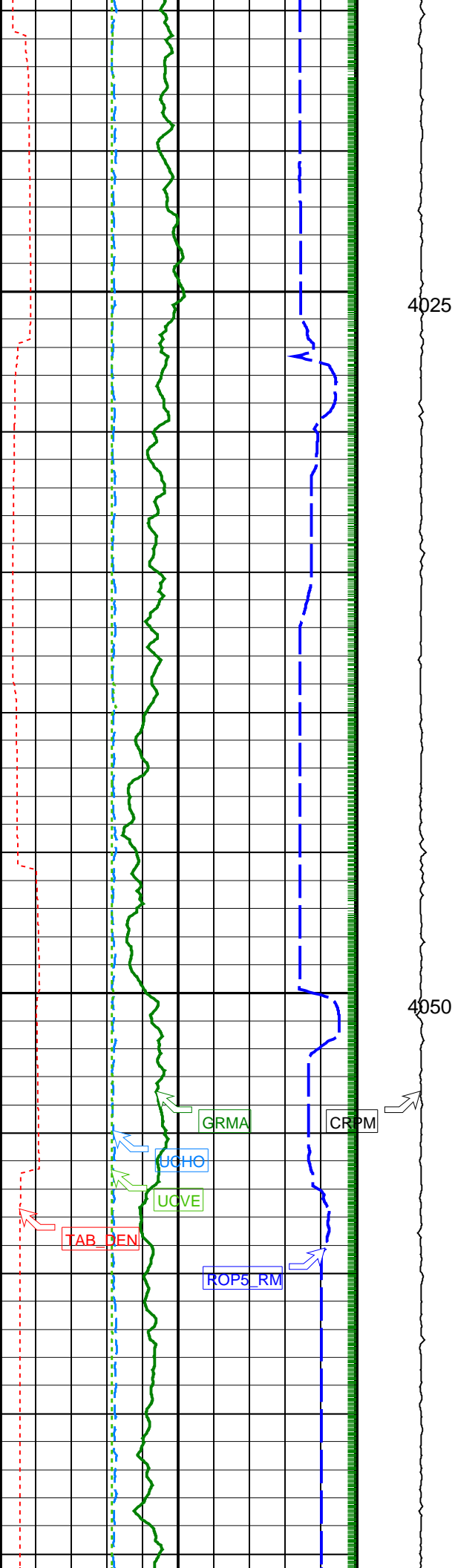


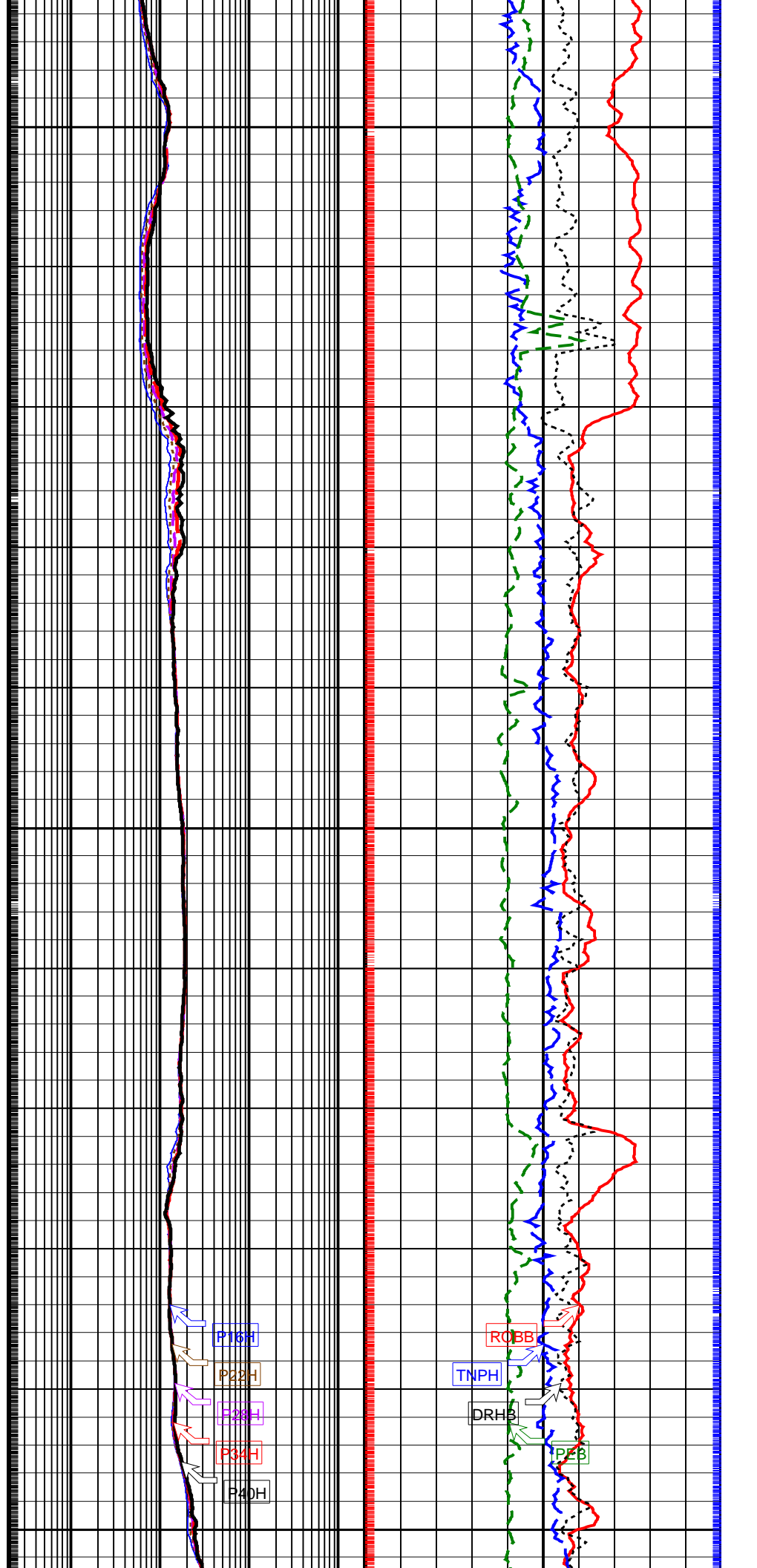
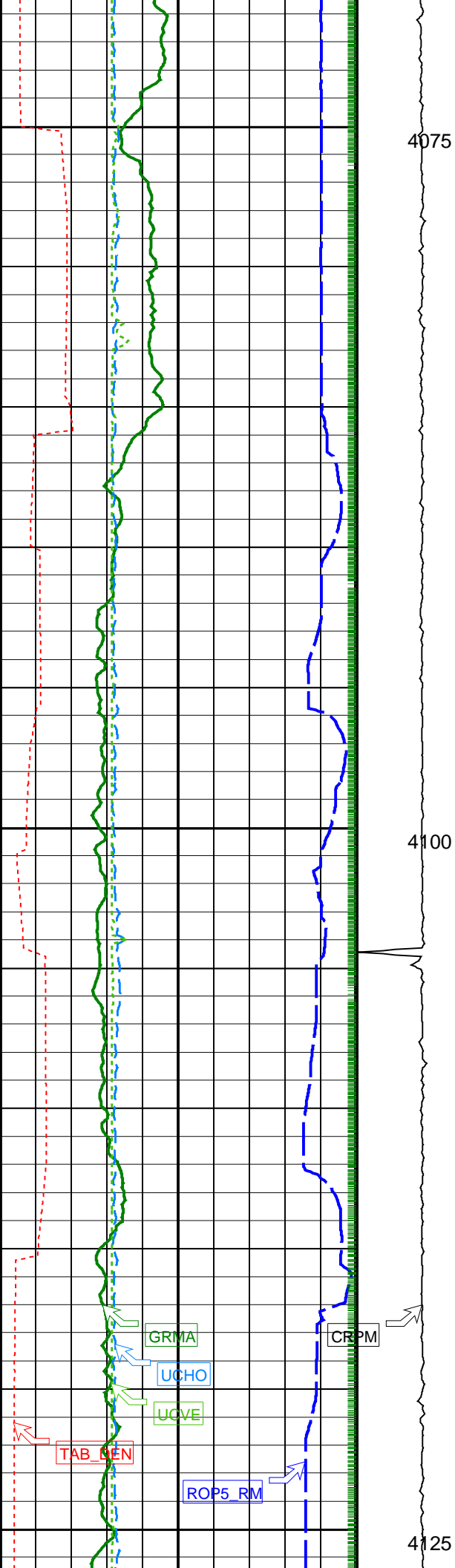


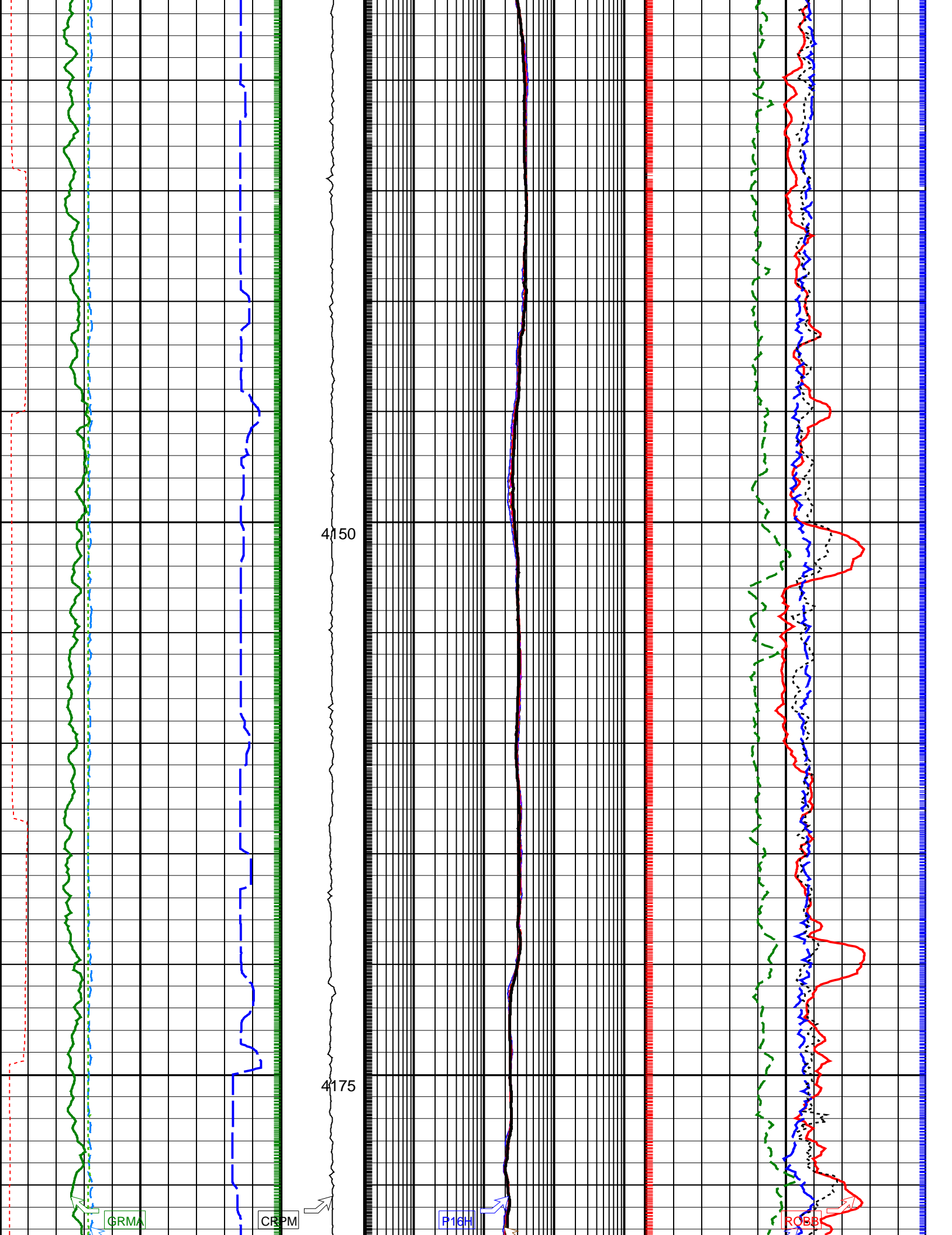




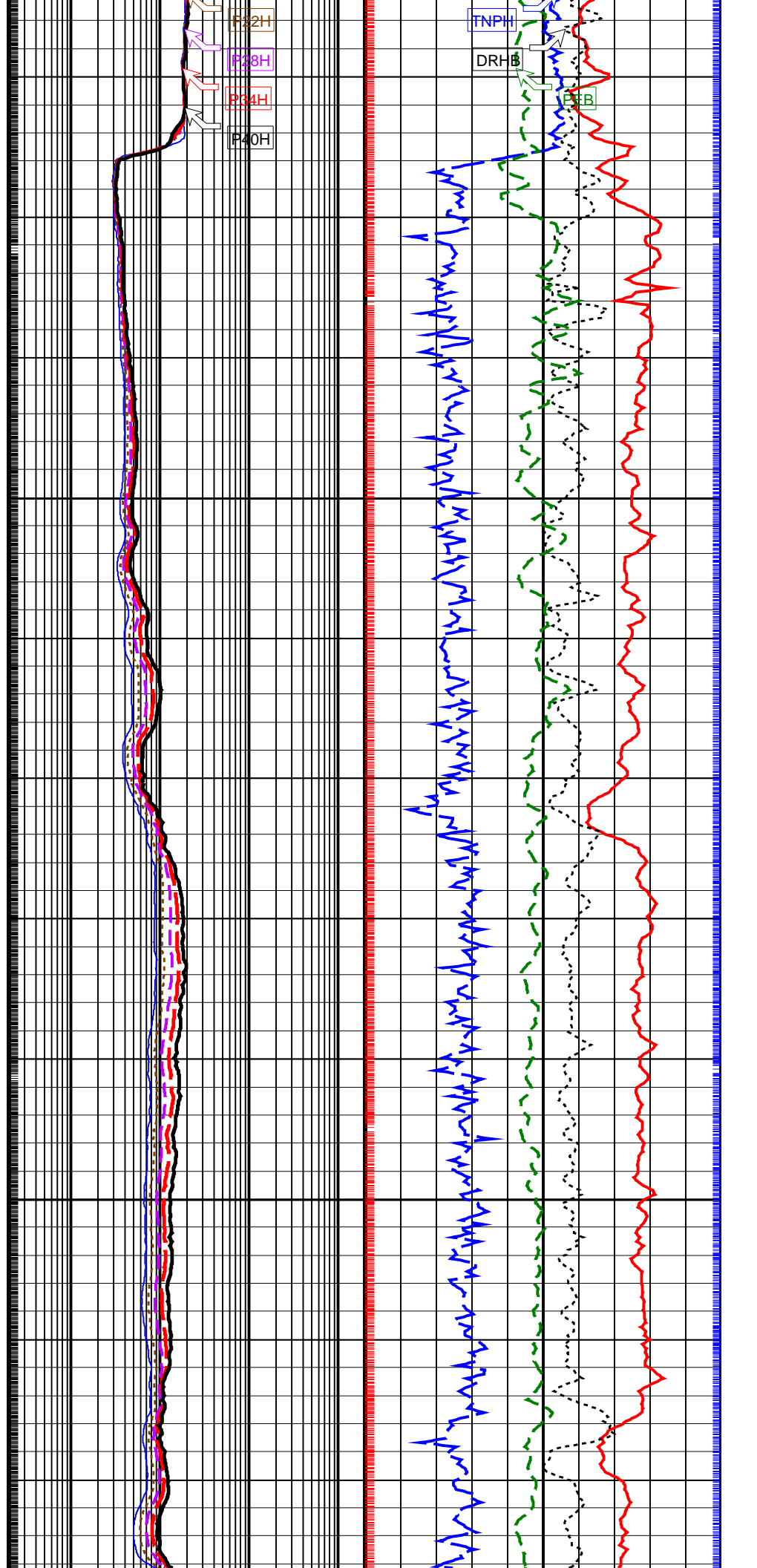
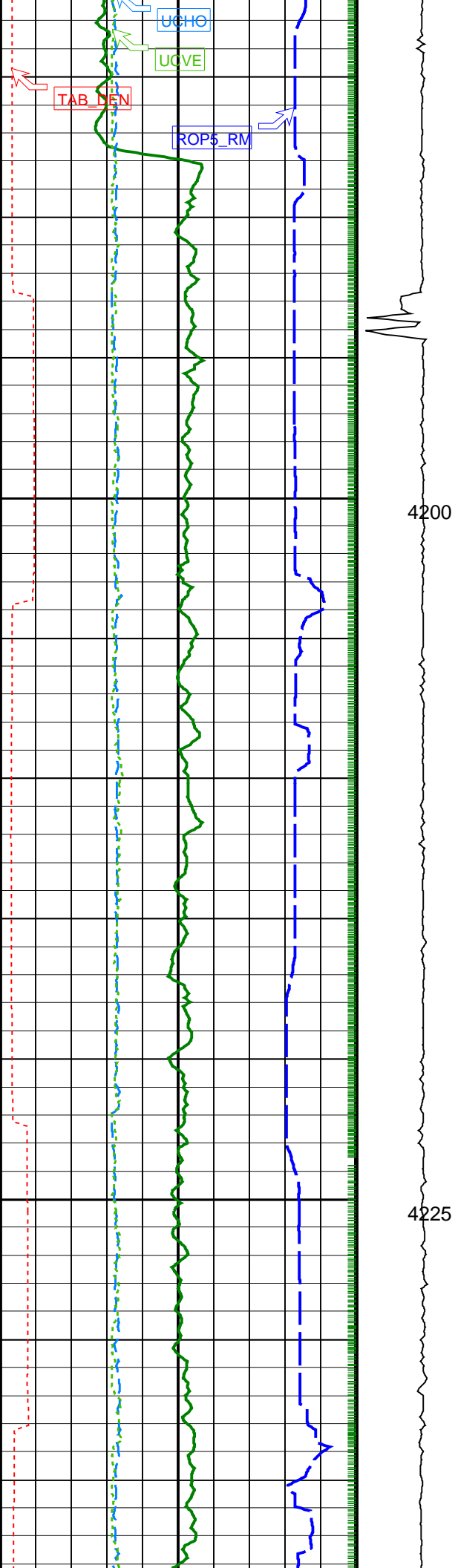


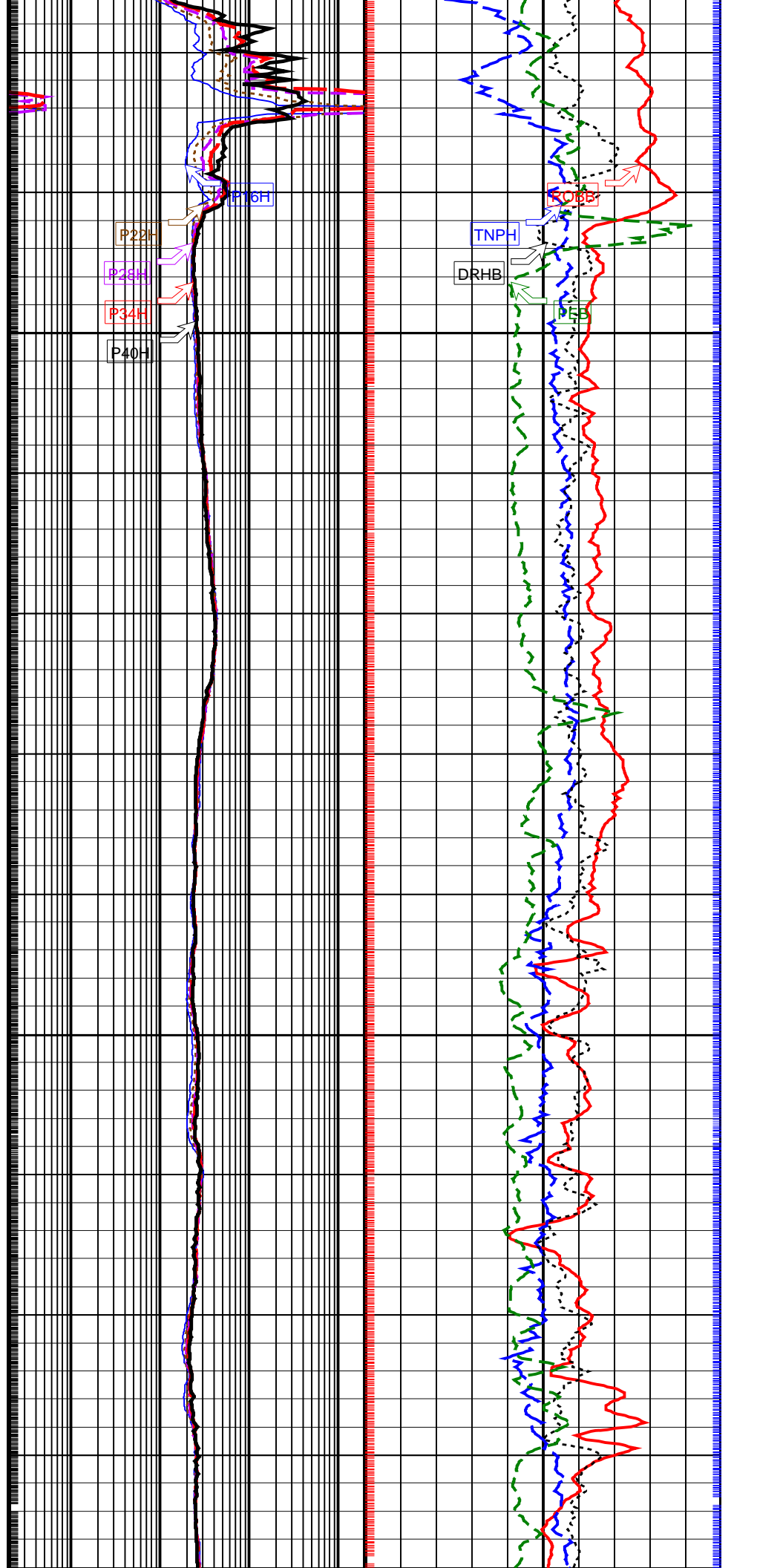
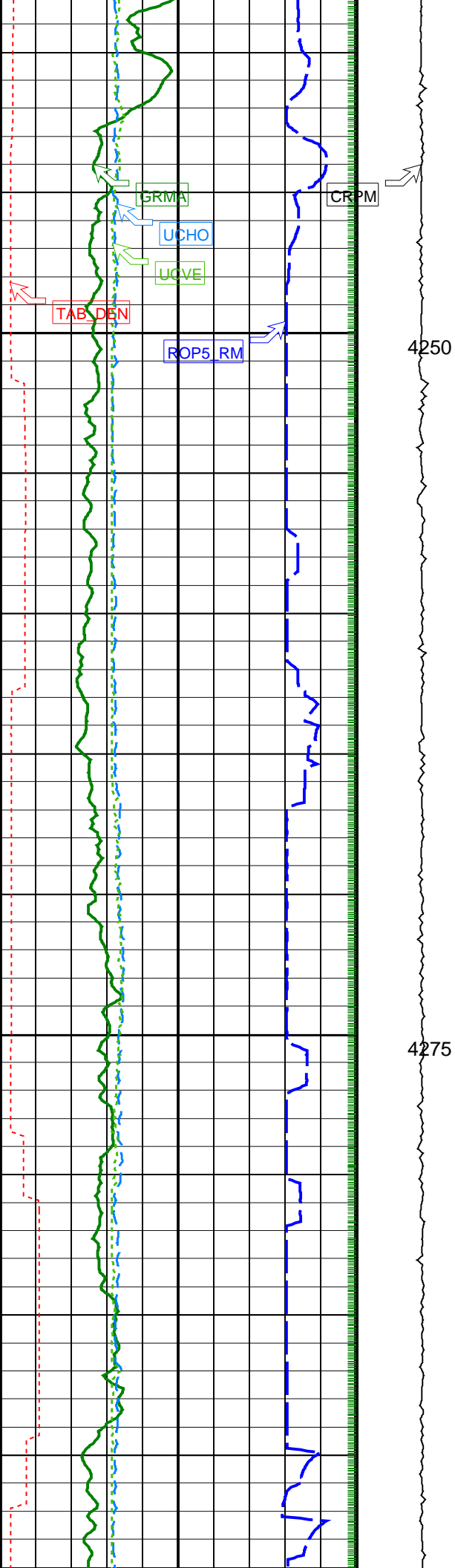


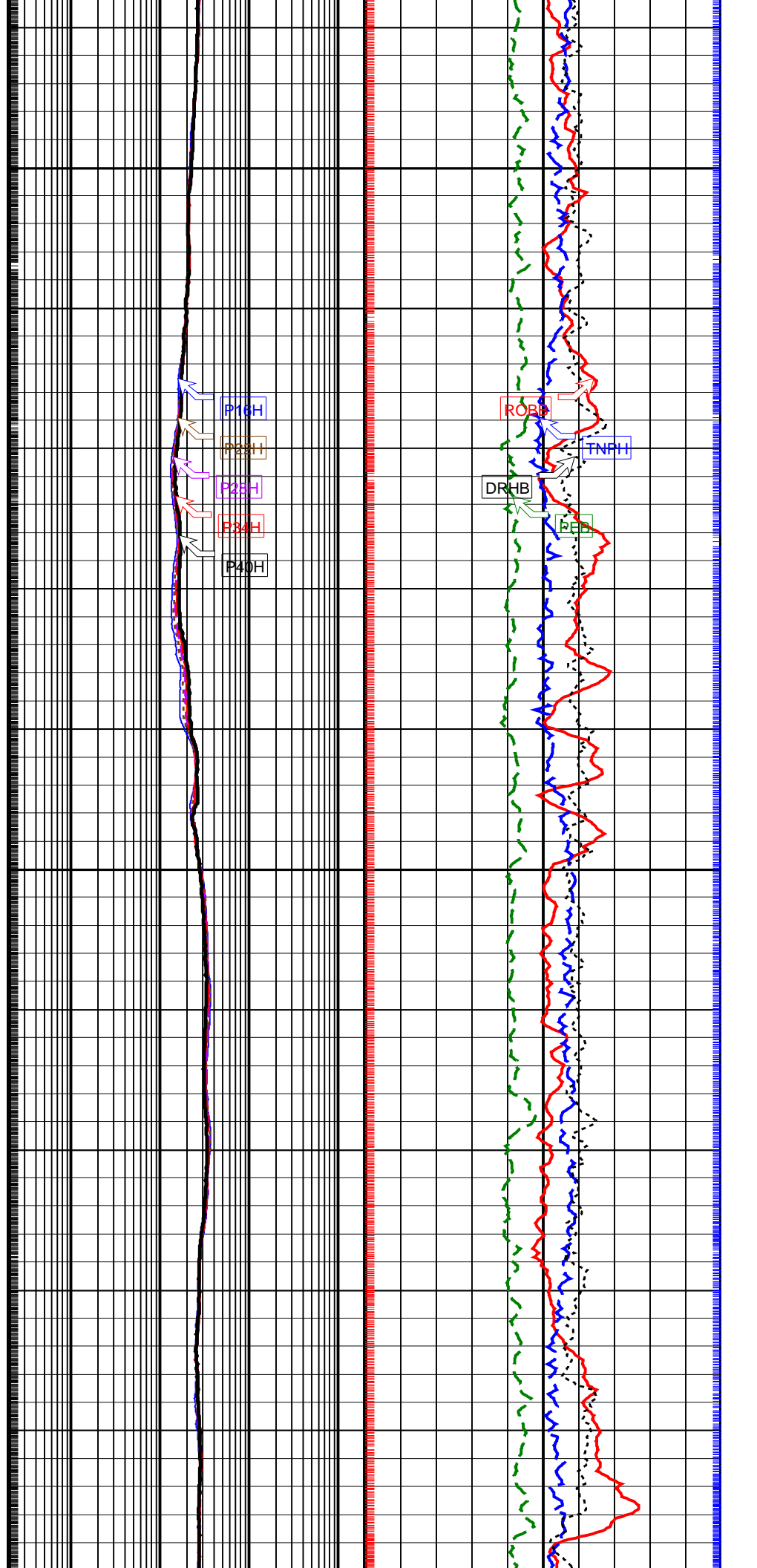
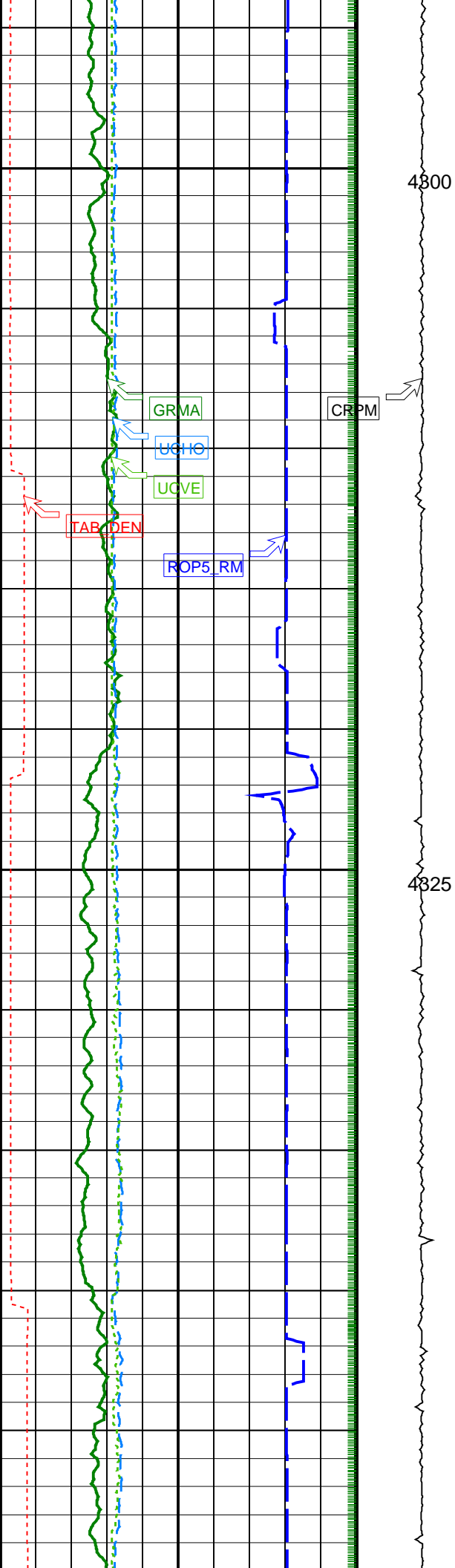


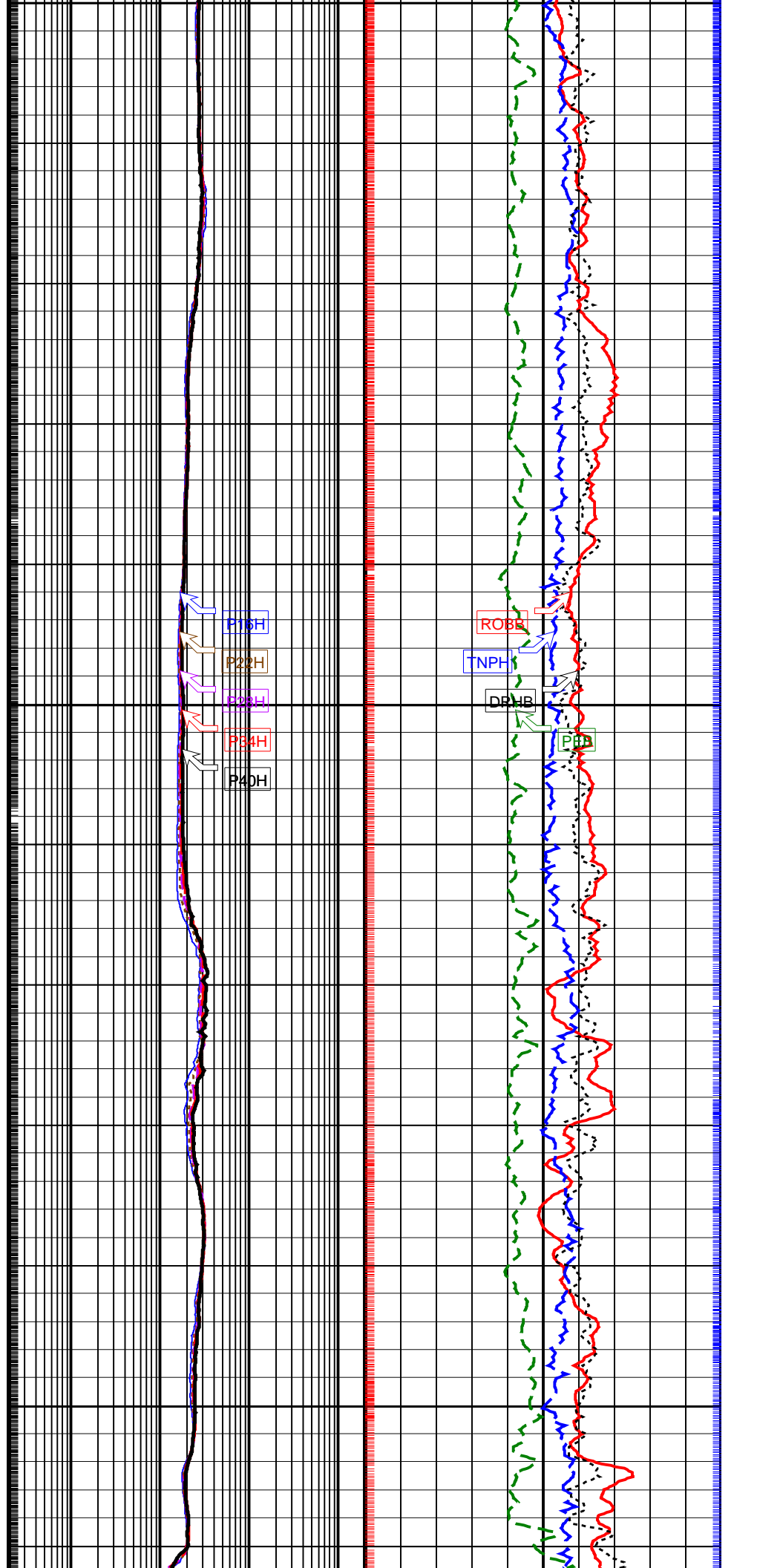
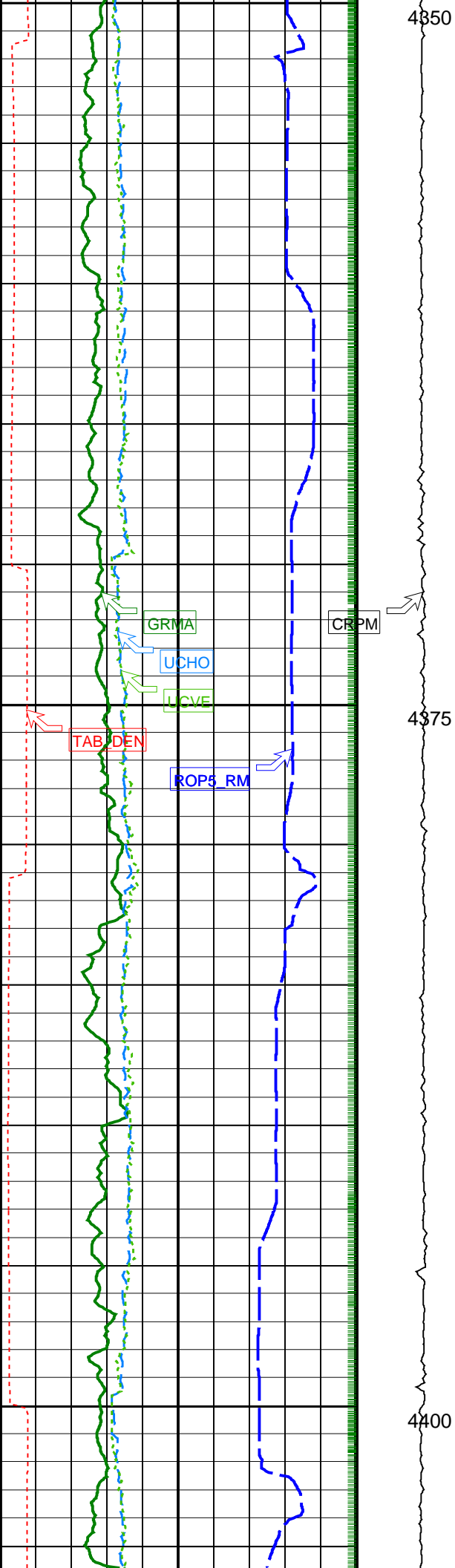


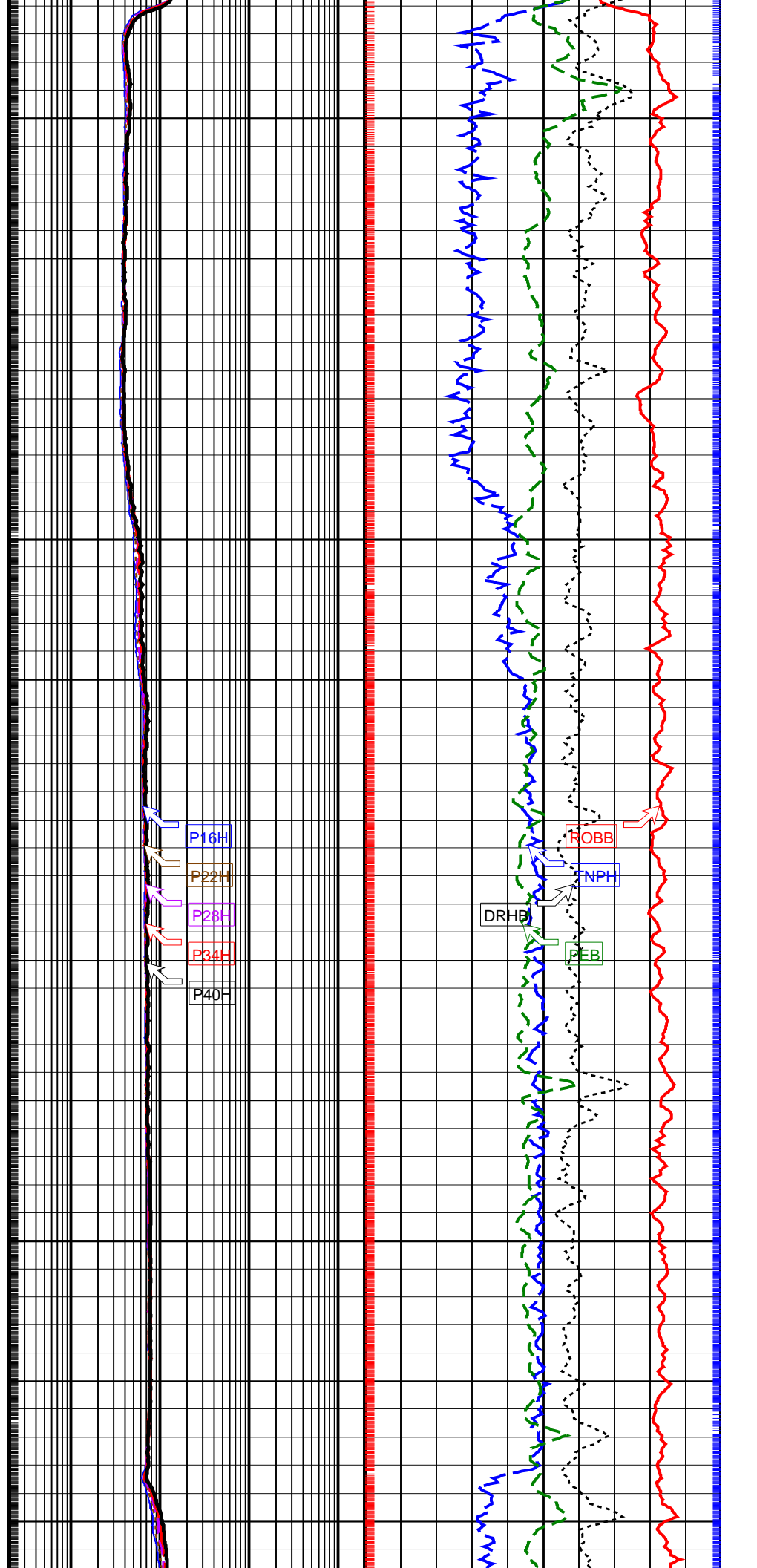
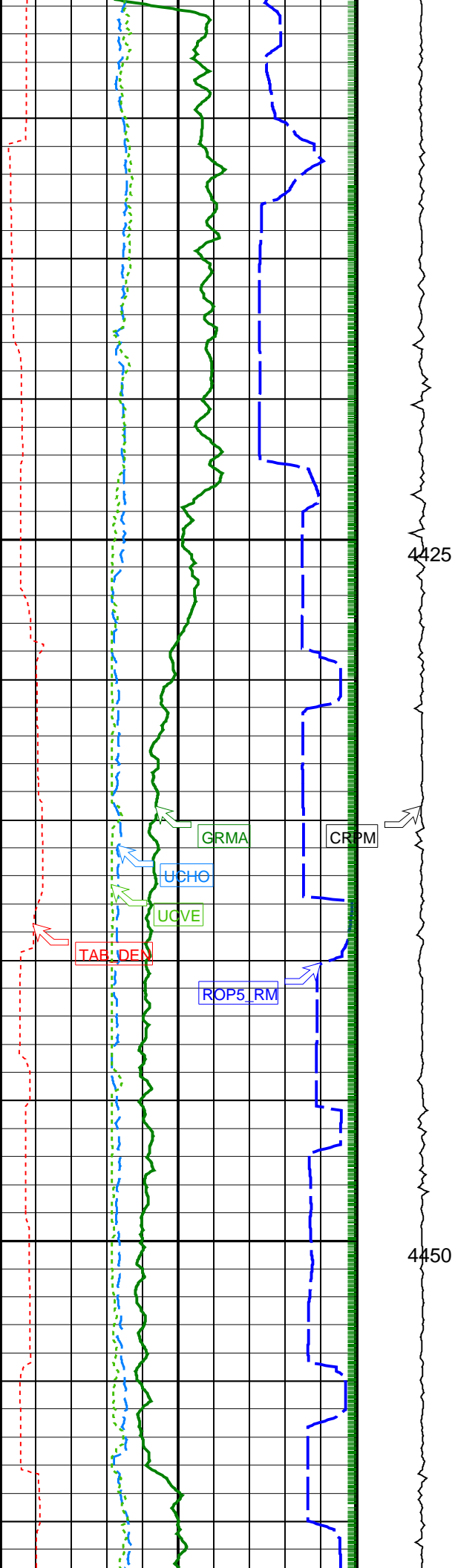


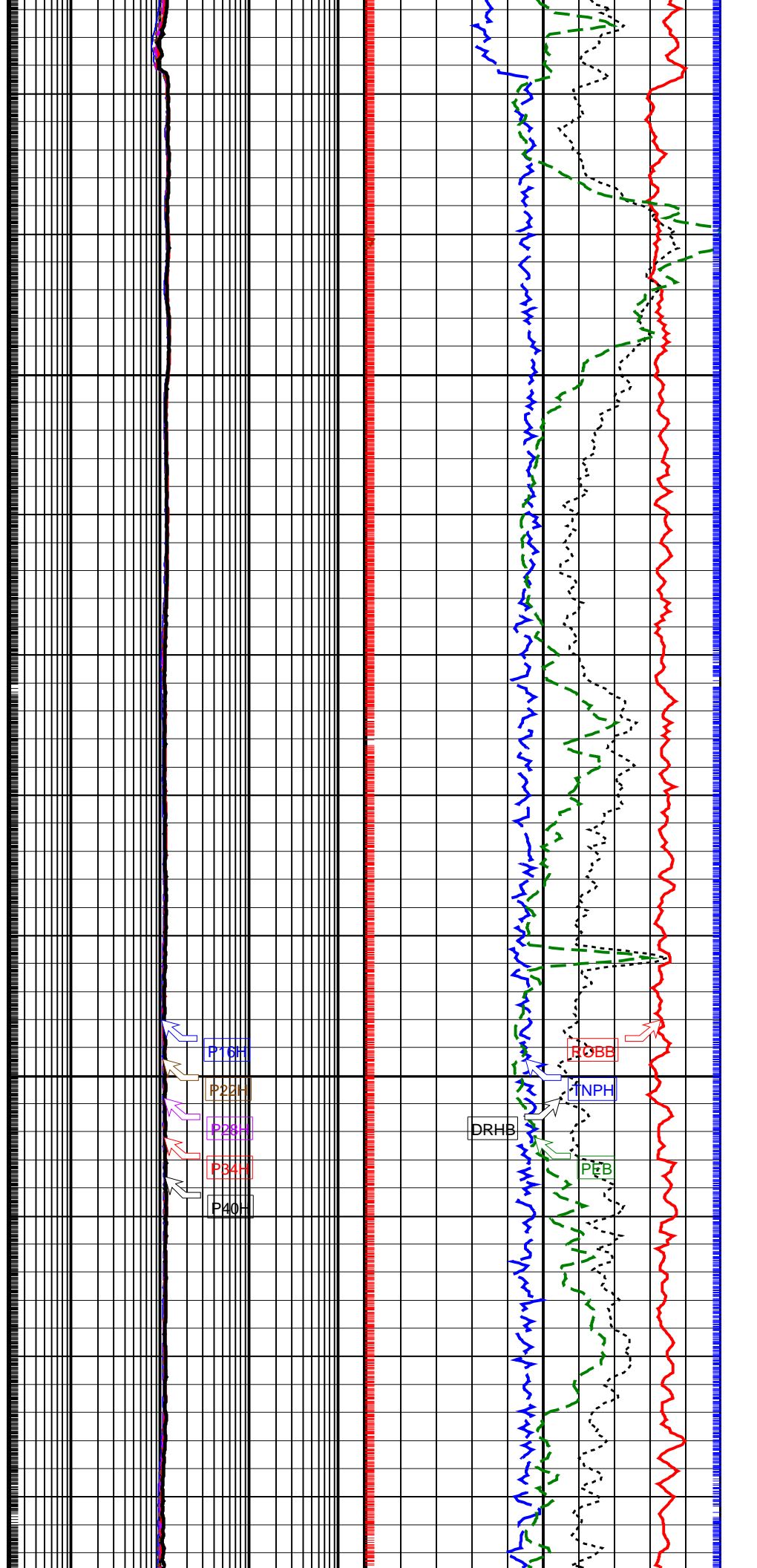
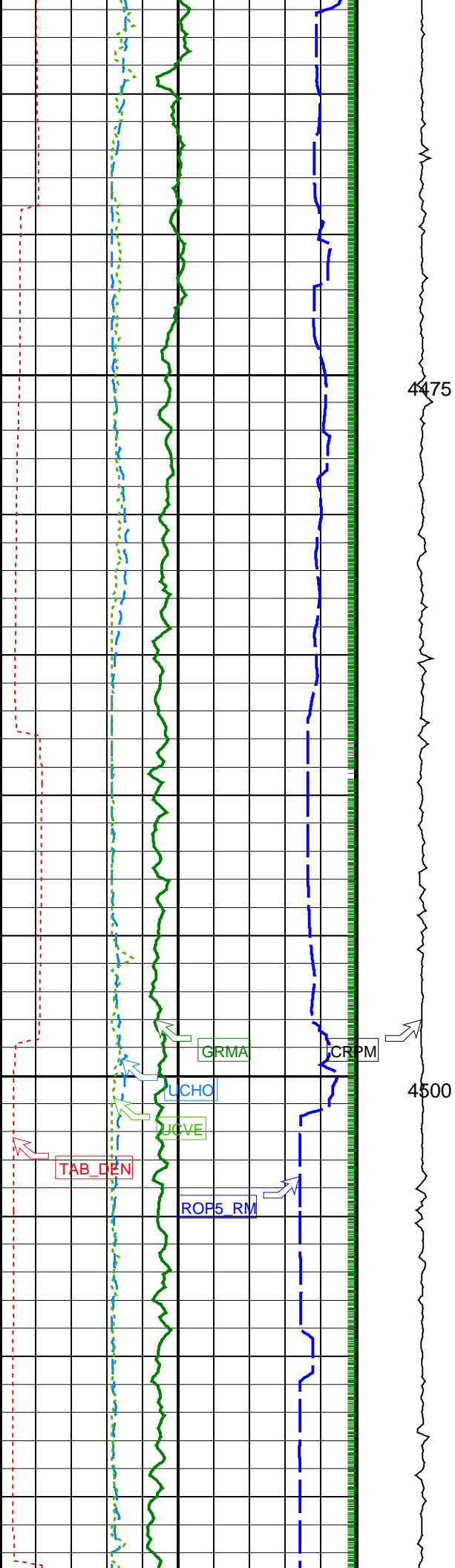


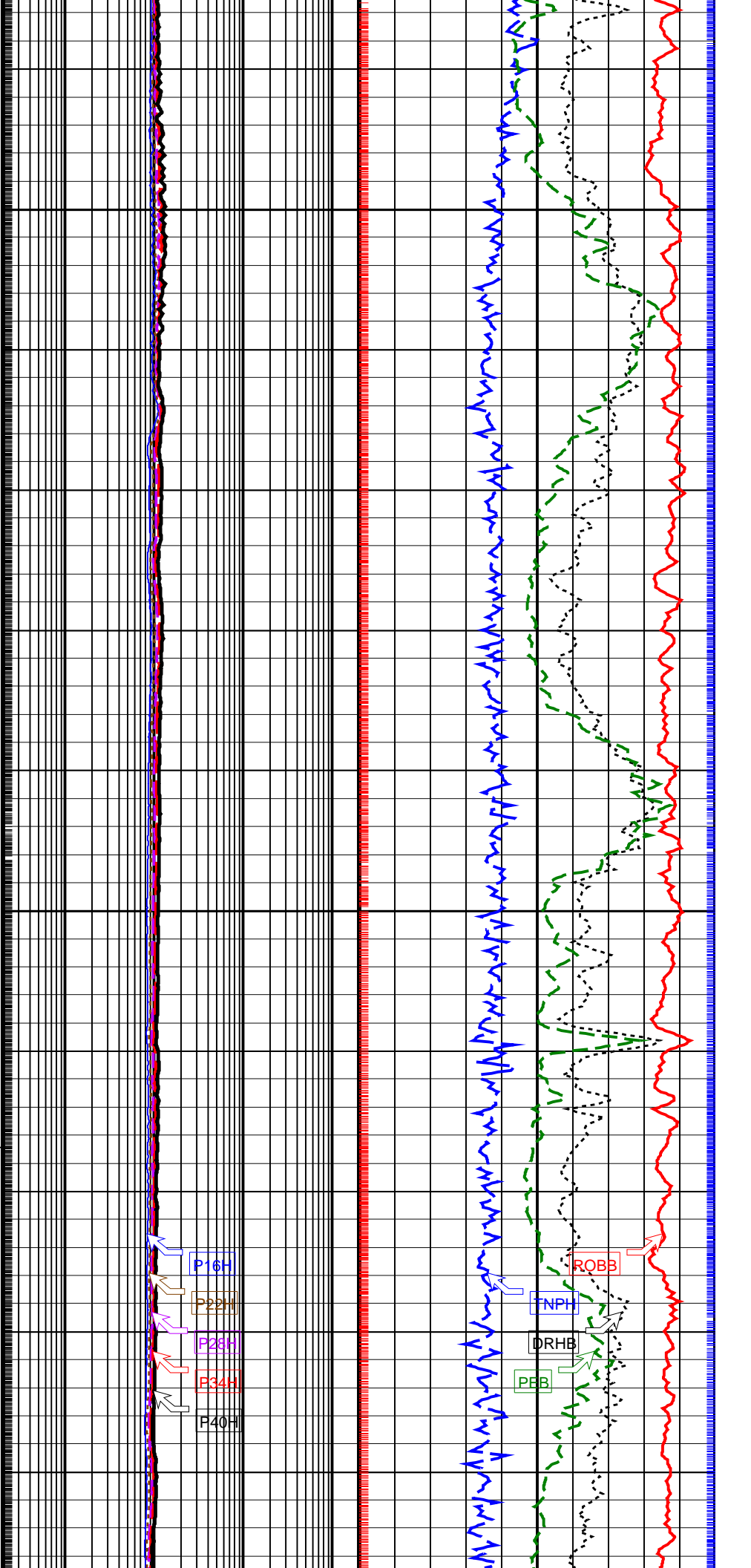
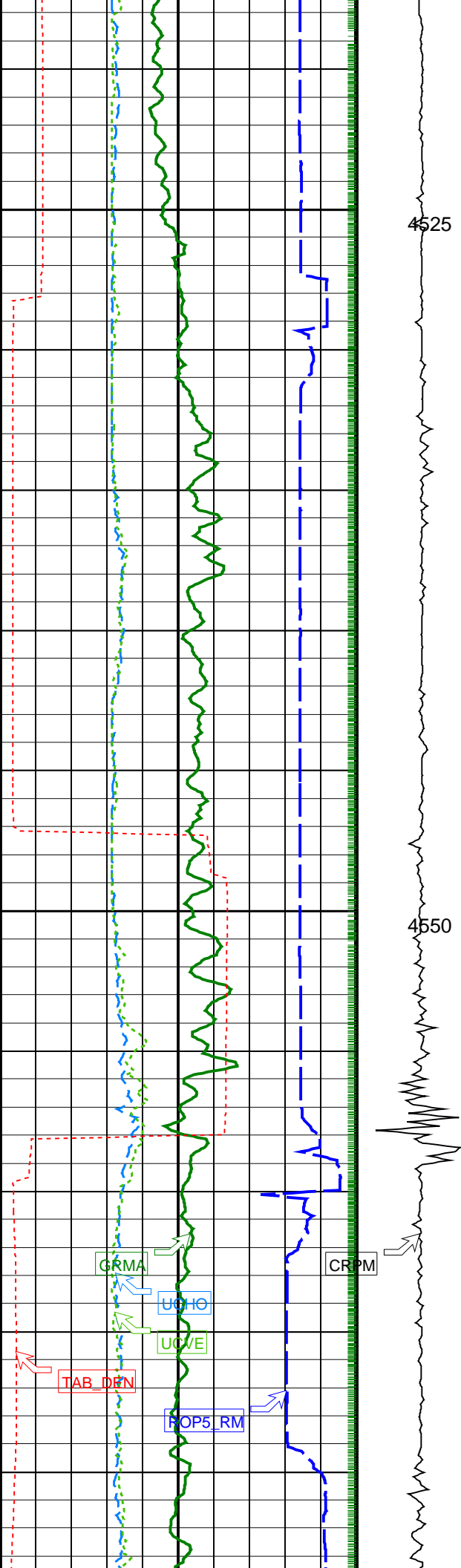


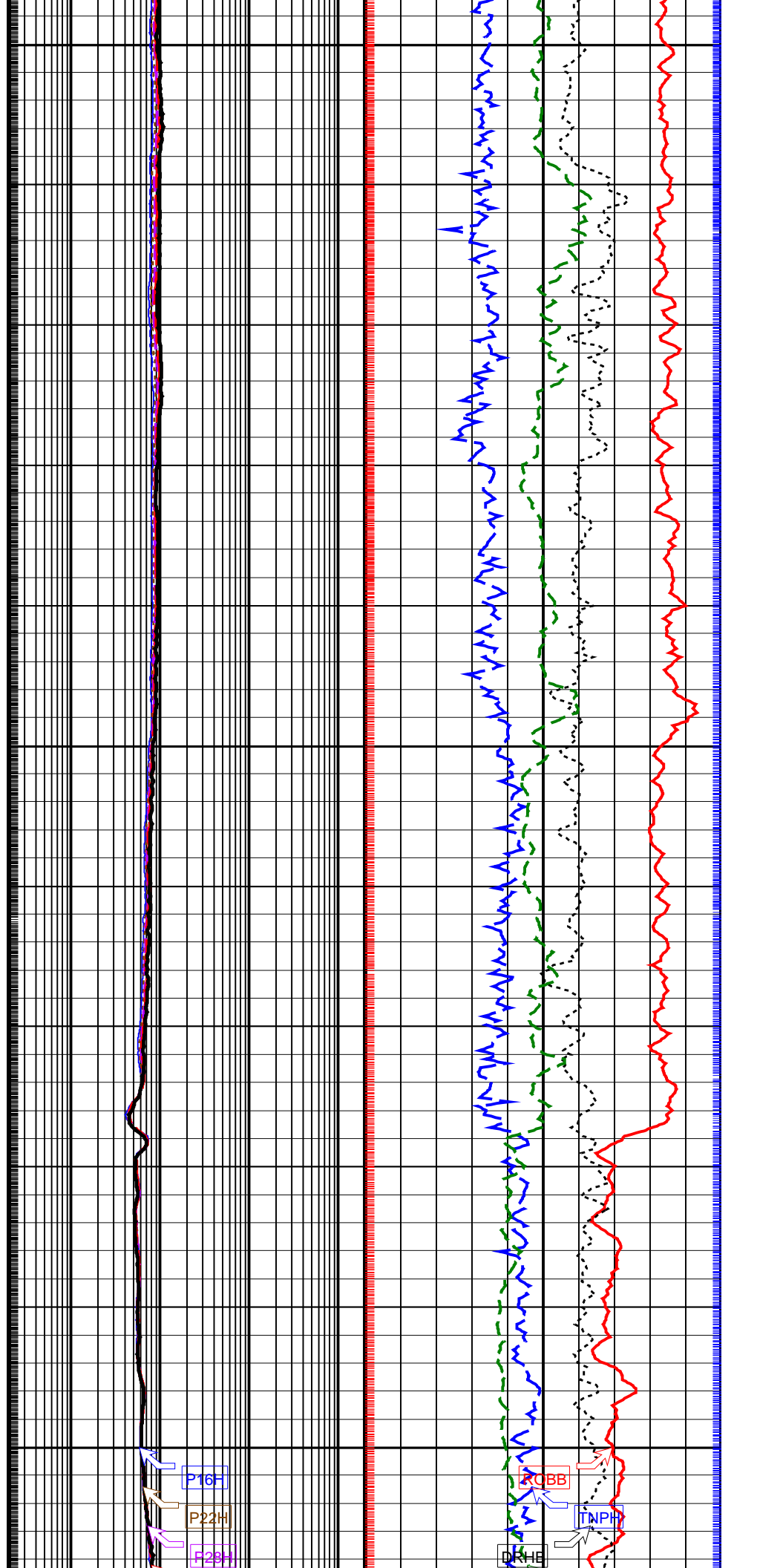
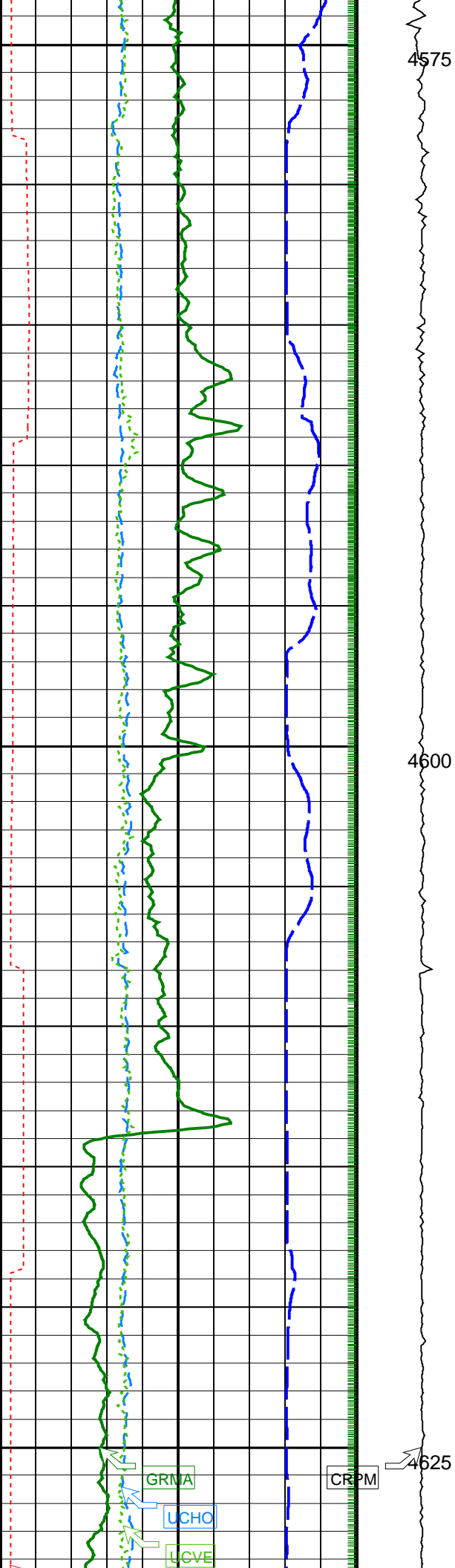




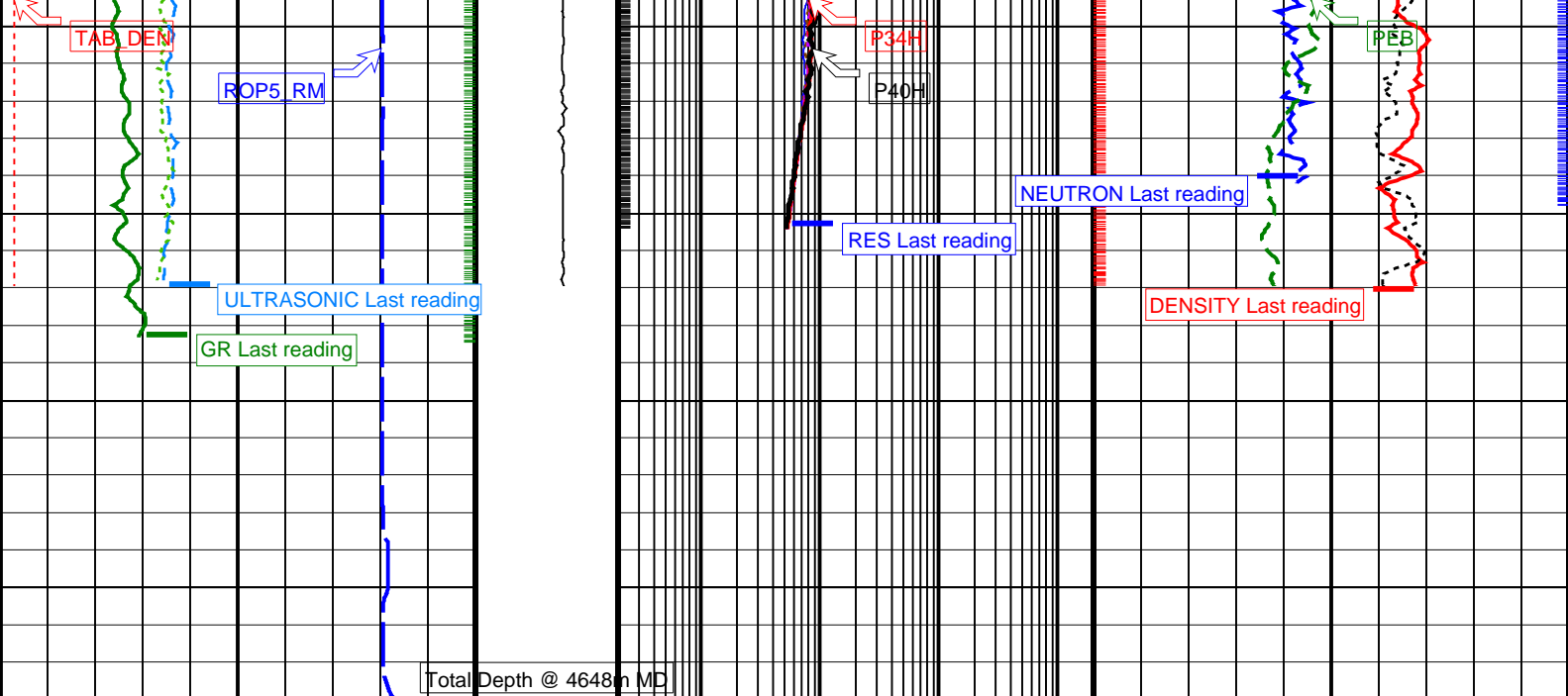












Gamma Ray, Average (GRMA) (GAPI)	Collar Rotational Speed (CRPM) (RPM)	ARC Phase Shift Resistivity 16 inch at 2 MHz (P16H) (OHMM)	Bulk Density, Bottom (ROBB) (G/C3)
0	250	0.2	1.85
200		2000	2.85
Time after BIT (between drilling and measurement) (TAB_DEN) (HR)		ARC Phase Shift Resistivity 22 inch at 2 MHz (P22H) (OHMM)	Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) (PU)
0		0.2	45
10		2000	-15
Ultrasonic Caliper, Horizontal Diameter (UCHO) (IN)		ARC Phase Shift Resistivity 28 inch at 2 MHz (P28H) (OHMM)	Bulk Density Correction, Bottom (DRHB) (G/C3)
6		0.2	-0.25
16		2000	0.25
Ultrasonic Caliper, Vertical Diameter (UCVE) (IN)		ARC Phase Shift Resistivity 34 inch at 2 MHz (P34H) (OHMM)	Photoelectric Factor, Bottom (PEB) (----
6		0.2	0
16		2000	10
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)		ARC Phase Shift Resistivity 40 inch at 2 MHz (P40H) (OHMM)	
200		0.2	
0		2000	

PIP SUMMARY

Density Samples

Gamma Ray Samples

Resistivity Samples





Neutron Samples









IDEAL Version: ID13\_0C\_08

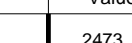



IDF





EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch / Equipment Identification		
Primary Equipment:		
Tool Name and Serial Number	ECO – 675	957
Calibration Status	Valid	
Neutron Logging Source	PNG – C	2149–4153
Density Logging Source	GSR – J/Z	A2585
Stabilizer Size	9.125 – in.	





Master: 29-Jul-2008 23:39					
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration					
SSn LSn : Water Tank					
Phase	SSn Gain	Value	Phase	SSn Offset	Value



Master		1.113	Master		0		
	0.6000 (Minimum)	1.000 (Nominal)	1.400 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Phase	LSn Gain ----		Value	Phase	LSn Offset ----		Value
Master		1.000	1.000	Master		0	0
	0.6000 (Minimum)	1.000 (Nominal)	1.400 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)





Master: 29-Jul-2008 23:39							
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration							
Neutron: Water Tank							
Phase	Far 2 Gain ----		Value	Phase	Far 2 Offset ----		Value
Master		0.9685	0.9685	Master		2.055	2.055
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Phase	Far 1 Gain ----		Value	Phase	Far 1 Offset ----		Value
Master		1.012	1.012	Master		1.318	1.318
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Phase	Thermal Near gain ----		Value	Phase	Thermal Near offset ----		Value
Master		1.040	1.040	Master		98.49	98.49
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-500.0 (Minimum)	0 (Nominal)	500.0 (Maximum)
Phase	Epithermal Near gain ----		Value	Phase	Epithermal Near offset ----		Value
Master		1.062	1.062	Master		100.3	100.3
	0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)		-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)











Master: 30-Jul-2008 2:33							
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration							
Gamma Density: Magnesium Block							
Phase	LS window 3 – Mg CPS		Value	Phase	SS window 1 – Mg CPS		Value
Master		2473	2473	Master		5868	5868
	1000 (Minimum)	2000 (Nominal)	3000 (Maximum)		2500 (Minimum)	5250 (Nominal)	8000 (Maximum)
Phase	SS window 3 – Mg CPS		Value	Phase	SS window 3 – Mg CPS		Value
Master		12980	12980	Master		12980	12980
	6000 (Minimum)	12000 (Nominal)	18000 (Maximum)		6000 (Minimum)	12000 (Nominal)	18000 (Maximum)











Master: 30-Jul-2008 2:33							
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration							
Gamma Density: Aluminum Block							
Phase	LS window 3 – Al CPS		Value	Phase	SS window 1 – Al CPS		Value
Master		445.1	445.1	Master		3038	3038
	200.0 (Minimum)	400.0 (Nominal)	600.0 (Maximum)		1500 (Minimum)	3000 (Nominal)	4500 (Maximum)
Phase	SS window 3 – Al CPS		Value	Phase	SS window 3 – Al CPS		Value
Master		9411	9411	Master		9411	9411
	4000 (Minimum)	8500 (Nominal)	13000 (Maximum)		4000 (Minimum)	8500 (Nominal)	13000 (Maximum)

Master: 30-Jul-2008 2:33							
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration							
Gamma Density: Background							
Phase	LS window 3 – Background CPS		Value	Phase	SS window 1 – Background CPS		Value
Master		67.38	67.38	Master		80.21	80.21
	50.00 (Minimum)	70.00 (Nominal)	90.00 (Maximum)		50.00 (Minimum)	75.00 (Nominal)	100.0 (Maximum)
Phase	SS window 3 – Background CPS		Value	Phase	SS window 3 – Background CPS		Value
Master		382.8	382.8	Master		382.8	382.8
	270.0 (Minimum)	370.0 (Nominal)	470.0 (Maximum)		270.0 (Minimum)	370.0 (Nominal)	470.0 (Maximum)





Master: 30-Jul-2008 2:33							
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration							
Gamma Density: Water Block Check							
Phase	Long spacing water density G/C3		Value	Phase	Short spacing water density G/C3		Value
Master		1.038	1.038	Master		1.285	1.285
	0.9000 (Minimum)	1.150 (Nominal)	1.400 (Maximum)		0.9000 (Minimum)	1.150 (Nominal)	1.400 (Maximum)



Master: 29-Jul-2008 19:14							
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration							
Resistivity: Air							
Phase	Phase-Shift T1		Value	Phase	Phase-Shift T2		Value
Master		-0.7470	-0.7470	Master		0.6630	0.6630
	-0.7470 (Minimum)	0.6630 (Maximum)	0.6630 (Maximum)		-0.7470 (Minimum)	0.6630 (Maximum)	0.6630 (Maximum)
Phase	Phase-Shift T3		Value	Phase	Phase-Shift T3		Value
Master		-0.7830	-0.7830	Master		-0.7830	-0.7830
	-0.7830 (Minimum)	0.6630 (Maximum)	0.6630 (Maximum)		-0.7830 (Minimum)	0.6630 (Maximum)	0.6630 (Maximum)







								
-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T4	Value	Phase	Phase-Shift T5	Value	Phase	Phase-Shift T1 at 400KHz	Value
Master		0.6920	Master		-0.7550	Master		1.521
-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T2 at 400KHz	Value	Phase	Phase-Shift T3 at 400KHz	Value	Phase	Phase-Shift T4 at 400KHz	Value
Master		-1.522	Master		1.515	Master		-1.514
-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T5 at 400KHz	Value						
Master		1.607						
-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)						

Master: 29-Jul-2008 19:14								
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration								
Resistivity: Air								
Phase	Attenuation T1	Value	Phase	Attenuation T2	Value	Phase	Attenuation T3	Value
Master		8.136	Master		6.271	Master		4.743
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)	4.000 (Minimum)	6.000 (Nominal)	8.000 (Maximum)	3.500 (Minimum)	5.500 (Nominal)	7.500 (Maximum)
Phase	Attenuation T4	Value	Phase	Attenuation T5	Value	Phase	Attenuation T1 at 400KHz	Value
Master		4.675	Master		3.302	Master		8.152
2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)	2.000 (Minimum)	4.000 (Nominal)	6.000 (Maximum)	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)
Phase	Attenuation T2 at 400KHz	Value	Phase	Attenuation T3 at 400KHz	Value	Phase	Attenuation T4 at 400KHz	Value
Master		6.273	Master		4.751	Master		4.675
4.000 (Minimum)	6.000 (Nominal)	8.000 (Maximum)	3.500 (Minimum)	5.500 (Nominal)	7.500 (Maximum)	2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)
Phase	Attenuation T5 at 400KHz	Value						
Master		3.323						
2.000 (Minimum)	4.000 (Nominal)	6.000 (Maximum)						




EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch / Equipment Identification		
Primary Equipment:		
Tool Name and Serial Number	ECO – 675	799
Calibration Status	Valid	
Neutron Logging Source	PNG – C	2242-4122
Density Logging Source	GSR – J/Z	A2474
Stabilizer Size	9.125 – in.	

Master: 4-Aug-2008 2:21								
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration								
SSn LSn : Water Tank								
Phase	SSn Gain ----	Value	Phase	SSn Offset ----	Value			
Master		1.094	Master		0			
0.6000 (Minimum)	1.000 (Nominal)	1.400 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)			
Phase	LSn Gain ----	Value	Phase	LSn Offset ----	Value			
Master		1.073	Master		0			
0.6000 (Minimum)	1.000 (Nominal)	1.400 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)			




Master: 4-Aug-2008 2:21								
EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration								
Neutron: Water Tank								
Phase	Far 2 Gain ----	Value	Phase	Far 2 Offset ----	Value			
Master		0.9877	Master		2.073			
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)			
Phase	Far 1 Gain ----	Value	Phase	Far 1 Offset ----	Value			

Master		0.9962	Master		2.225		
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)		
Phase	Thermal Near gain	----	Value	Phase	Thermal Near offset	----	Value
Master		1.031	Master		204.4		
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)	-500.0 (Minimum)	0 (Nominal)	500.0 (Maximum)		
Phase	Epithermal Near gain	-----	Value	Phase	Epithermal Near offset	-----	Value
Master		1.062	Master		134.3		
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)	-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)		




Master: 4-Aug-2008 3:57

EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration														
Gamma 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				2322	Master				5729	Master				12870
	1000 (Minimum)	2000 (Nominal)	3000 (Maximum)			2500 (Minimum)	5250 (Nominal)	8000 (Maximum)			6000 (Minimum)	12000 (Nominal)	18000 (Maximum)	



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EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration											
Gamma 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			432.2	Master			3037	Master			9556
	200.0 (Minimum)	400.0 (Nominal)	600.0 (Maximum)		1500 (Minimum)	3000 (Nominal)	4500 (Maximum)		4000 (Minimum)	8500 (Nominal)	13000 (Maximum)











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EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration														
Gamma Density: Background														
Phase	LS window 3 – Background		CPS	Value	Phase	SS window 1 – Background		CPS	Value	Phase	SS window 3 – Background		CPS	Value
Master				61.92	Master				83.35	Master				398.4
	50.00 (Minimum)	70.00 (Nominal)	90.00 (Maximum)			50.00 (Minimum)	75.00 (Nominal)	100.0 (Maximum)			270.0 (Minimum)	370.0 (Nominal)	470.0 (Maximum)	

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









EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration							
Gamma Density: Water Block Check							
Phase	Long spacing water density G/C3		Value	Phase	Short spacing water density G/C3		Value
Master			1.029	Master			1.286
	0.9000 (Minimum)	1.150 (Nominal)	1.400 (Maximum)		0.9000 (Minimum)	1.150 (Nominal)	1.400 (Maximum)

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EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration											
Resistivity: Air											
Phase	Phase-Shift T1		Value	Phase	Phase-Shift T2		Value	Phase	Phase-Shift T3		Value
Master			0.7927	Master			-0.8818	Master			0.7569
	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T4		Value	Phase	Phase-Shift T5		Value	Phase	Phase-Shift T1 at 400KHz		Value
Master			-0.8984	Master			0.7688	Master			0.9056
	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T2 at 400KHz		Value	Phase	Phase-Shift T3 at 400KHz		Value	Phase	Phase-Shift T4 at 400KHz		Value
Master			-0.9300	Master			0.9110	Master			-0.9467
	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)		-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)
Phase	Phase-Shift T5 at 400KHz		Value								
Master			0.9285								
	-4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)								

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## Resistivity: Air

Phase	Attenuation T1		Value	Phase	Attenuation T2		Value	Phase	Attenuation T3		Value
Master			8.376	Master			6.057	Master			4.976
	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)		4.000 (Minimum)	6.000 (Nominal)	8.000 (Maximum)		3.500 (Minimum)	5.500 (Nominal)	7.500 (Maximum)
Phase	Attenuation T4		Value	Phase	Attenuation T5		Value	Phase	Attenuation T1 at 400KHz		Value
Master			4.460	Master			3.534	Master			8.316
	2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)		2.000 (Minimum)	4.000 (Nominal)	6.000 (Maximum)		7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)
Phase	Attenuation T2 at 400KHz		Value	Phase	Attenuation T3 at 400KHz		Value	Phase	Attenuation T4 at 400KHz		Value
Master			6.129	Master			4.914	Master			4.521
	4.000 (Minimum)	6.000 (Nominal)	8.000 (Maximum)		3.500 (Minimum)	5.500 (Nominal)	7.500 (Maximum)		2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)
Phase	Attenuation T5 at 400KHz		Value								
Master			3.473								
	2.000 (Minimum)	4.000 (Nominal)	6.000 (Maximum)								

## SCHLUMBERGER

Survey report

10-Aug-2008 05:11:28

Client.....: Nexus Energy Ltd  
Field.....: Longtom

Well.....: Longtom-4 H  
API number.....: 08ASQ0007  
Engineer.....: MVK/ML/STDA

Australia.....: West Triton  
STATE.....: Victoria

Spud date.....: 21-June-08  
Last survey date.....: 10-Aug-08  
Total accepted surveys...: 147  
MD of first survey.....: 0.00 m  
MD of last survey.....: 4648.00 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.....: -55.96 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.....: BGM 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

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SCHLUMBERGER Survey Report

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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/ 100f)	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	1.10	MWD	None
4	124.06	0.56	358.29	7.91	124.06	-0.17	0.18	-0.09	0.20	333.96	1.34	MWD	None
5	147.44	0.36	43.93	23.38	147.44	-0.34	0.34	-0.04	0.35	353.53	0.52	MWD	None
6	204.75	0.52	335.69	57.31	204.75	-0.71	0.71	-0.02	0.71	358.29	0.27	MWD	None
7	324.05	0.78	189.14	119.30	324.04	-0.38	0.40	-0.37	0.55	317.18	0.32	MWD	None
8	382.91	0.23	326.57	58.86	382.90	-0.07	0.11	-0.50	0.51	281.89	0.50	MWD	None
9	412.77	0.34	250.06	29.86	412.76	-0.09	0.13	-0.62	0.63	281.47	0.37	MWD	None
10	442.90	0.19	118.87	30.13	442.89	-0.03	0.07	-0.66	0.66	276.14	0.49	MWD	None
11	531.83	0.85	328.15	88.93	531.82	-0.50	0.56	-0.88	1.04	302.55	0.35	MWD	None
12	563.30	0.97	289.41	31.47	563.29	-0.77	0.85	-1.25	1.51	304.08	0.59	MWD	None
13	651.66	0.44	355.43	88.36	651.64	-1.31	1.43	-1.98	2.45	305.85	0.31	MWD	None
14	741.14	0.59	334.49	89.48	741.12	-2.05	2.19	-2.21	3.11	314.76	0.08	MWD	None
15	750.39	0.71	327.45	9.25	750.37	-2.14	2.28	-2.26	3.21	315.27	0.47	MWD	None
16	783.28	0.52	304.12	32.89	783.25	-2.38	2.54	-2.49	3.56	315.50	0.29	PUP	None
17	812.94	2.32	203.29	29.66	812.91	-1.88	2.06	-2.84	3.51	305.96	2.54	PUP	None

18	842.62	5.16	197.90	29.68	842.52	-0.02	0.24	-3.49	3.50	273.94	2.94	PUP	None
19	872.25	7.12	192.11	29.63	871.98	3.09	-2.83	-4.29	5.14	236.55	2.15	PUP	None
20	901.94	8.26	183.91	29.69	901.40	7.05	-6.76	-4.82	8.30	215.50	1.56	PUP	None
21	931.42	10.19	179.91	29.48	930.50	11.76	-11.47	-4.96	12.50	203.39	2.14	PUP	None
22	960.94	13.95	179.75	29.52	959.36	17.91	-17.64	-4.94	18.32	195.65	3.88	PUP	None
23	990.68	17.52	178.95	29.74	987.98	25.96	-25.71	-4.84	26.16	190.67	3.67	PUP	None
24	1020.40	20.88	177.48	29.72	1016.05	35.68	-35.47	-4.53	35.76	187.28	3.48	PUP	None
25	1050.08	24.28	176.64	29.68	1043.45	47.01	-46.85	-3.94	47.02	184.80	3.51	PUP	None
26	1078.64	25.70	178.42	28.56	1069.33	59.00	-58.90	-3.42	59.00	183.33	1.71	PUP	None
27	1108.28	26.85	180.79	29.64	1095.91	72.09	-72.02	-3.34	72.10	182.65	1.60	PUP	None
28	1137.39	27.64	182.43	29.11	1121.79	85.41	-85.34	-3.72	85.42	182.49	1.14	PUP	None
29	1166.97	28.48	183.83	29.58	1147.89	99.32	-99.23	-4.48	99.34	182.58	1.10	PUP	None
30	1196.40	29.46	184.58	29.43	1173.64	113.57	-113.45	-5.52	113.58	182.79	1.08	PUP	None

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SCHLUMBERGER Survey Report

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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/ 100f)	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	0.85	PUP	None
32	1255.99	29.83	185.82	30.04	1225.30	143.27	-143.03	-8.29	143.27	183.32	0.38	PUP	None
33	1285.37	30.03	186.70	29.38	1250.76	157.91	-157.60	-9.88	157.91	183.59	0.50	PUP	None
34	1315.16	31.09	187.90	29.79	1276.41	173.02	-172.62	-11.81	173.03	183.91	1.25	PUP	None
35	1344.99	31.21	187.53	29.83	1301.94	188.41	-187.91	-13.88	188.42	184.23	0.23	PUP	None
36	1374.68	30.42	184.92	29.69	1327.44	203.60	-203.03	-15.54	203.62	184.38	1.59	PUP	None
37	1404.59	30.04	183.00	29.91	1353.28	218.66	-218.05	-16.58	218.68	184.35	1.06	PUP	None
38	1433.94	31.67	182.29	29.35	1378.48	233.71	-233.09	-17.27	233.72	184.24	1.73	PUP	None
39	1463.79	30.65	181.20	29.85	1404.02	249.14	-248.52	-17.74	249.16	184.08	1.19	PUP	None
40	1493.62	30.04	180.72	29.83	1429.76	264.20	-263.59	-18.00	264.20	183.91	0.67	PUP	None
41	1523.35	30.08	180.58	29.73	1455.50	279.07	-278.48	-18.16	279.07	183.73	0.08	PUP	None
42	1553.11	30.38	181.81	29.76	1481.21	294.04	-293.46	-18.48	294.04	183.60	0.70	PUP	None
43	1583.05	30.31	183.44	29.94	1507.05	309.16	-308.57	-19.17	309.16	183.55	0.84	PUP	None
44	1612.84	30.34	184.08	29.79	1532.76	324.21	-323.58	-20.16	324.21	183.56	0.33	PUP	None
45	1642.12	30.48	183.53	29.28	1558.01	339.03	-338.37	-21.14	339.03	183.57	0.32	PUP	None
46	1671.81	30.16	182.75	29.69	1583.64	354.01	-353.33	-21.96	354.01	183.56	0.52	PUP	None
47	1701.38	29.96	181.97	29.57	1609.24	368.82	-368.13	-22.57	368.82	183.51	0.45	PUP	None
48	1730.84	30.49	182.20	29.46	1634.69	383.65	-382.95	-23.11	383.65	183.45	0.56	PUP	None
49	1760.64	30.44	183.16	29.80	1660.38	398.75	-398.04	-23.82	398.76	183.42	0.50	PUP	None
50	1790.34	29.76	183.49	29.70	1686.07	413.65	-412.91	-24.68	413.65	183.42	0.72	PUP	None
51	1820.04	29.12	183.26	29.70	1711.94	428.25	-427.49	-25.54	428.25	183.42	0.67	PUP	None
52	1849.86	28.05	182.80	29.82	1738.12	442.51	-441.73	-26.30	442.51	183.41	1.12	PUP	None
53	1879.39	28.44	182.54	29.53	1764.14	456.49	-455.69	-26.95	456.49	183.38	0.42	PUP	None
54	1909.08	29.18	181.91	29.69	1790.15	470.79	-469.99	-27.50	470.79	183.35	0.82	PUP	None
55	1938.97	29.25	182.37	29.89	1816.24	485.37	-484.57	-28.05	485.38	183.31	0.24	PUP	None
56	1968.51	27.81	181.63	29.54	1842.19	499.48	-498.67	-28.54	499.48	183.28	1.53	PUP	None
57	1998.05	27.26	181.66	29.54	1868.38	513.13	-512.32	-28.93	513.13	183.23	0.57	PUP	None
58	2028.03	26.98	181.70	29.98	1895.07	526.79	-525.98	-29.33	526.80	183.19	0.29	PUP	None
59	2057.68	29.01	184.81	29.65	1921.25	540.70	-539.87	-30.14	540.71	183.19	2.57	PUP	None
60	2087.27	29.58	188.03	29.59	1947.06	555.15	-554.25	-31.76	555.16	183.28	1.73	PUP	None

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SCHLUMBERGER Survey Report

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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/ 100f)	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	0.03	PUP	None
62	2146.82	30.97	187.12	30.04	1998.67	584.77	-583.67	-35.78	584.77	183.51	1.51	PUP	None
63	2176.36	31.76	185.57	29.54	2023.89	600.13	-598.95	-37.48	600.13	183.58	1.17	PUP	None
64	2206.21	31.48	183.82	29.85	2049.31	615.77	-614.55	-38.76	615.77	183.61	0.98	PUP	None
65	2235.88	31.35	183.41	29.67	2074.63	631.24	-629.98	-39.74	631.24	183.61	0.26	PUP	None
66	2265.38	32.11	184.62	29.50	2099.72	646.75	-645.46	-40.82	646.75	183.62	1.02	PUP	None
67	2295.13	31.69	185.04	29.75	2124.98	662.47	-661.12	-42.15	662.47	183.65	0.49	PUP	None
68	2325.11	33.21	184.84	29.98	2150.28	678.55	-677.15	-43.53	678.55	183.68	1.55	PUP	None
69	2355.31	35.92	185.28	30.20	2175.15	695.67	-694.22	-45.04	695.68	183.71	2.75	PUP	None
70	2385.09	36.82	184.07	29.78	2199.13	713.33	-711.82	-46.48	713.33	183.74	1.18	PUP	None
71	2413.59	37.70	183.21	28.50	2221.81	730.58	-729.03	-47.58	730.59	183.73	1.09	PUP	None
72	2472.44	42.55	182.99	58.85	2266.79	768.50	-766.89	-49.62	768.50	183.70	2.51	PUP	None
73	2502.19	45.34	182.77	29.75	2288.21	789.14	-787.51	-50.66	789.14	183.68	2.86	PUP	None
74	2531.76	48.61	183.24	29.57	2308.39	810.75	-809.10	-51.79	810.75	183.66	3.39	PUP	None
75	2561.19	50.89	182.57	29.43	2327.40	833.21	-831.53	-52.93	833.21	183.64	2.42	PUP	None
76	2578.22	52.52	183.03	17.03	2337.95	846.57	-844.88	-53.58	846.57	183.63	2.99	PUP	None
77	2621.57	53.72	182.84	43.35	2363.97	881.25	-879.51	-55.36	881.25	183.60	0.85	PUP	None
78	2651.30	53.37	183.55	29.73	2381.63	905.16	-903.38	-56.69	905.16	183.59	0.69	PUP	None
79	2681.00	52.50	184.22	29.70	2399.54	928.86	-927.03	-58.30	928.86	183.60	1.05	PUP	None
80	2704.04	51.56	184.69	23.04	2413.71	947.02	-945.13	-59.71	947.02	183.61	1.34	PUP	None
81	2733.77	49.85	181.87	29.73	2432.54	970.02	-968.10	-61.03	970.02	183.61	2.84	PUP	None
82	2763.58	51.38	177.62	29.81	2451.46	993.00	-991.13	-60.92	993.00	183.52	3.70	PUP	None
83	2792.31	53.01	176.31	28.73	2469.07	1015.55	-1013.79	-59.71	1015.55	183.37	2.05	PUP	None
84	2820.01	54.07	176.82	27.70	2485.53	1037.66	-1036.03	-58.38	1037.68	183.23	1.25	PUP	None
85	2850.81	54.91	179.97	30.80	2503.42	1062.62	-1061.09	-57.68	1062.65	183.11	2.67	PUP	None
86	2881.69	57.25	185.74	30.88	2520.67	1088.23	-1086.66	-58.97	1088.26	183.11	5.26	PUP	None
87	2911.49	62.80	188.17	29.80	2535.55	1113.98	-1112.27	-62.11	1114.00	183.20	6.07	PUP	None
88	2941.41	65.11	188.76	29.92	2548.69	1140.76	-1138.86	-66.07	1140.77	183.32	2.41	PUP	None
89	2957.37	66.49	189.09	15.96	2555.23	1155.26	-1153.24	-68.33	1155.26	183.39	2.70	Xceed	None
90	2987.28	68.43	190.05	29.91	2566.69	1182.73	-1180.48	-72.92	1182.73	183.53	2.17	Xceed	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/ 100f)	Srvy tool type	Tool Corr (deg)
91	3016.23	69.92	189.15	28.95	2576.99	1209.63	-1207.16	-77.44	1209.64	183.67	1.80	Xceed	None
92	3046.70	71.87	185.88	30.47	2586.96	1238.35	-1235.69	-81.20	1238.36	183.76	3.65	Xceed	None
93	3076.34	72.83	185.30	29.64	2595.95	1266.58	-1263.80	-83.95	1266.59	183.80	1.14	Xceed	None
94	3106.22	72.92	185.49	29.88	2604.75	1295.12	-1292.23	-86.63	1295.13	183.84	0.21	Xceed	None
95	3136.04	75.98	186.22	29.82	2612.74	1323.82	-1320.81	-89.56	1323.84	183.88	3.21	Xceed	None
96	3164.24	80.13	185.24	28.20	2618.57	1351.38	-1348.25	-92.31	1351.41	183.92	4.60	Xceed	None
97	3194.93	79.46	185.98	30.69	2624.01	1381.57	-1378.31	-95.27	1381.60	183.95	0.98	Xceed	None
98	3224.35	81.52	184.32	29.42	2628.87	1410.57	-1407.21	-97.87	1410.61	183.98	2.73	Xceed	None
99	3254.13	84.39	184.05	29.78	2632.52	1440.12	-1436.68	-100.03	1440.16	183.98	2.95	Xceed	None
100	3283.78	87.22	180.52	29.65	2634.69	1469.67	-1466.22	-101.20	1469.71	183.95	4.64	Xceed	None
101	3313.51	90.41	179.55	29.73	2635.31	1499.34	-1495.94	-101.22	1499.36	183.87	3.42	Xceed	None
102	3343.47	93.13	182.41	29.96	2634.38	1529.25	-1525.88	-101.73	1529.26	183.81	4.01	Xceed	None
103	3373.36	94.02	181.60	29.89	2632.52	1559.07	-1555.69	-102.78	1559.08	183.78	1.23	Xceed	None
104	3402.75	93.92	178.26	29.39	2630.48	1588.32	-1585.00	-102.74	1588.33	183.71	3.46	Xceed	None
105	3431.88	91.13	178.07	29.13	2629.20	1617.30	-1614.09	-101.81	1617.30	183.61	2.93	Xceed	None
106	3461.34	91.68	178.76	29.46	2628.48	1646.63	-1643.53	-100.99	1646.63	183.52	0.91	Xceed	None
107	3492.03	91.51	180.60	30.69	2627.62	1677.23	-1674.20	-100.82	1677.24	183.45	1.83	Xceed	None
108	3521.63	91.27	178.88	29.60	2626.91	1706.76	-1703.79	-100.69	1706.77	183.38	1.79	Xceed	None
109	3551.39	91.44	180.83	29.76	2626.20	1736.45	-1733.54	-100.61	1736.46	183.32	2.00	Xceed	None
110	3564.74	91.37	180.85	13.35	2625.88	1749.78	-1746.89	-100.81	1749.80	183.30	0.17	PUP	None
111	3594.59	91.46	180.97	29.85	2625.14	1779.59	-1776.73	-101.28	1779.61	183.26	0.15	PUP	None
112	3624.29	91.46	182.60	29.70	2624.38	1809.26	-1806.40	-102.21	1809.29	183.24	1.67	PUP	None
113	3653.86	91.66	184.27	29.57	2623.58	1838.82	-1835.91	-103.98	1838.85	183.24	1.73	PUP	None
114	3684.08	90.29	183.77	30.22	2623.06	1869.04	-1866.05	-106.10	1869.06	183.25	1.47	PUP	None
115	3711.90	89.74	185.04	27.82	2623.05	1896.85	-1893.78	-108.23	1896.87	183.27	1.52	PUP	None
116	3740.99	88.54	184.85	29.09	2623.49	1925.93	-1922.76	-110.74	1925.95	183.30	1.27	PUP	None
117	3770.39	85.50	184.63	29.40	2625.02	1955.28	-1952.02	-113.17	1955.30	183.32	3.16	PUP	None
118	3799.79	83.81	184.62	29.40	2627.76	1984.55	-1981.19	-115.53	1984.56	183.34	1.75	PUP	None
119	3829.12	82.94	183.90	29.33	2631.14	2013.68	-2010.25	-117.69	2013.69	183.35	1.17	PUP	None
120	3859.22	84.01	183.23	30.10	2634.56	2043.58	-2040.09	-119.55	2043.59	183.35	1.28	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/ 100f)	Srvy tool type	Tool Corr (deg)
121	3888.65	86.13	183.06	29.43	2637.09	2072.90	-2069.37	-121.16	2072.91	183.35	2.20	PUP	None
122	3918.67	88.74	185.50	30.02	2638.44	2102.88	-2099.27	-123.40	2102.89	183.36	3.63	PUP	None
123	3948.20	89.63	186.27	29.53	2638.86	2132.38	-2128.64	-126.43	2132.39	183.40	1.21	PUP	None
124	3977.71	86.96	185.58	29.51	2639.73	2161.85	-2157.98	-129.47	2161.86	183.43	2.85	PUP	None
125	4006.54	83.81	184.14	28.83	2642.05	2190.58	-2186.61	-131.90	2190.58	183.45	3.66	PUP	None
126	4035.61	82.10	183.23	29.07	2645.62	2219.43	-2215.40	-133.76	2219.43	183.46	2.03	PUP	None
127	4065.35	82.21	183.76	29.74	2649.68	2248.89	-2244.80	-135.56	2248.89	183.46	0.55	PUP	None
128	4094.84	79.90	183.49	29.49	2654.26	2278.02	-2273.87	-137.40	2278.02	183.46	2.40	PUP	None
129	4124.38	77.56	183.62	29.54	2660.04	2306.99	-2302.79	-139.19	2306.99	183.46	2.42	PUP	None
130	4153.91	78.91	185.00	29.53	2666.06	2335.89	-2331.61	-141.37	2335.89	183.47	1.97	PUP	None
131	4183.07	81.41	187.28	29.16	2671.04	2364.59	-2360.17	-144.44	2364.59	183.50	3.51	PUP	None
132	4212.97	85.21	190.62	29.90	2674.52	2394.14	-2389.50	-149.06	2394.14	183.57	5.14	PUP	None
133	4242.27	89.94	193.94	29.30	2675.76	2423.07	-2418.09	-155.29	2423.07	183.67	6.01	PUP	None
134	4270.99	92.69	195.73	28.72	2675.10	2451.22	-2445.84	-162.64	2451.24	183.80	3.48	PUP	None
135	4301.34	92.03	195.79	30.35	2673.86	2480.86	-2475.03	-170.87	2480.92	183.95	0.67	PUP	None
136	4331.01	92.98	195.62	29.67	2672.56	2509.83	-2503.56	-178.90	2509.94	184.09	0.99	PUP	None
137	4360.69	90.97	195.41	29.68	2671.54	2538.85	-2532.14	-186.83	2539.02	184.22	2.08	PUP	None
138	4390.61	87.74	193.25	29.92	2671.87	2568.23	-2561.12	-194.24	2568.48	184.34	3.96	PUP	None
139	4419.25	84.58	189.93	28.64	2673.79	2596.52	-2589.11	-199.98	2596.82	184.42	4.87	PUP	None
140	4448.12	85.64	190.34	28.87	2676.25	2625.10	-2617.42	-205.04	2625.44	184.48	1.20	PUP	None
141	4478.07	84.87	191.52	29.95	2678.73	2654.70	-2646.73	-210.70	2655.10	184.55	1.43	PUP	None
142	4507.60	84.61	193.02	29.53	2681.44	2683.76	-2675.46	-216.95	2684.24	184.64	1.56	PUP	None
143	4538.99	84.55	192.67	31.39	2684.40	2714.60	-2705.93	-223.89	2715.18	184.73	0.34	PUP	None
144	4568.77	84.96	189.40	29.78	2687.12	2744.00	-2735.03	-229.57	2744.65	184.80	3.36	PUP	None
145	4598.48	84.84	186.02	29.71	2689.77	2773.51	-2764.35	-233.54	2774.20	184.83	3.46	PUP	None
146	4627.92	82.10	185.79	29.44	2693.11	2802.73	-2793.44	-236.55	2803.44	184.84	2.85	PUP	None
147	4648.00	82.10	185.79	20.08	2695.87	2822.60	-2813.23	-238.55	2823.33	184.85	0.00	Projection to TD	

Rig:	West Triton	9.5 in Section
State:	Victoria	
EcoScope* Service 1:200 Measured Depth Recorded Mode Log		