Schlumberger

Company: **Nexus Energy Ltd**

9.5 in Section

Well: **Longtom−4 H**

Field: **Longtom**

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

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

EcoScope* Density Neutron
1:200 Measured Depth
Recorded Mode Log

Location

Total depth:	4648.0 m
Spud date:	21−Jun−08
Runs:	7 To 8

Elevation

K.B.	Top Drive
G.L.	−97.06 m
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

Service Order No.	X = E 616,897.309 m	Longitude Latitude
08ASQ0007	Y = N 5,781,704.499 m	E 148° 19' 59.944'' S 38° 06' 17.707''

Depth logged: 2680.00 m To 4638.31 m
Date logged: 01−Aug−08 To 10−Aug−08
Mag decl: 13.1° deg.
Mag dip: −68.59° deg.
Other services: See Remarks

Bore hole record

Hole size	from	to
9.5 in.	2591.0 m	4648.0 m

Casing record

Size	Density	from	to
10.75 in.	55.5 lb/ft	749.0 m	2591.0 m

Mud record

Type	from	to
Accolade SBM	2591.0 m	4648.0 m

Borehole deviation record

Min	Max	from	to
52.52 deg.	94.02 deg.	2621.57 m	3373.56 m

Surface equipment

Unit	OLU−KC−0702
Depth system	PDA

Software record

IDEAL Wis	ID13_0c_08		
SPM	hspm13_0c_03		
LWD	See Remarks		
MWD	See Remarks		

Bit Run Summary

Run number		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
Mud data			
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								
Environmental data											
GR											
Mud weight	ppg	12.0	12.1								
Bit size	in.	9.5	9.5								
Resistivity											
Neutron porosity											
Hole Size	in.	9.5	9.5								
Mud weight	ppg	12.0	12.1								
Temperature	ºC	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				

DISCLAIMER

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.

OTHER SERVICES FOR RUN7
- Directional Drilling
- Directional Surveys
- Annular Pressure & Temperature
- Shock & Vibrations

OTHER SERVICES FOR RUN8
- Directional Drilling
- Directional Surveys
- Annular Pressure & Temperature
- Shock & Vibrations

REMARKS: RUN NUMBER 7

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.

REMARKS: RUN NUMBER 8

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.

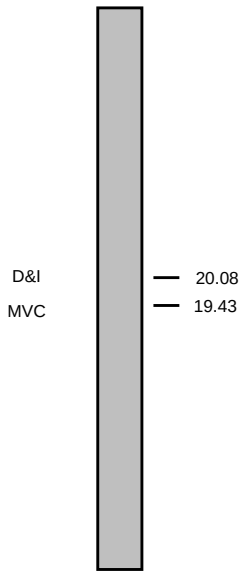
EQUIPMENT DESCRIPTION

RUN7 RUN8

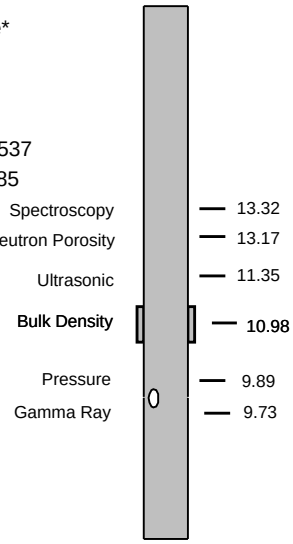
DOWNHOLE EQUIPMENT DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT

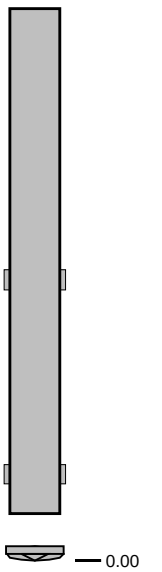
6−3/4" Telescope* 24.45
DHS: 9.2C02
MDC: E0330
MEC: 280
MDI: 1888
MVC: 256



6−3/4" EcoScope* 15.93
SN#963
DHS: v2.2
BladeOD: 9−1/8"
PNG C: 2149−41537
Source S/N: A2585



6−3/4" PowerDrive Xceed* 7.88
SN#241
DHS: 37B05
BladeOD: 9 3/8"

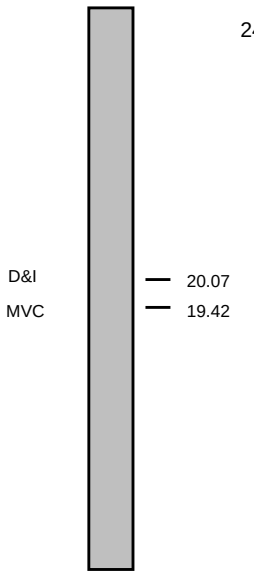


0.22
9−1/2" Reed Hycalog PDC Bit
SN#218795

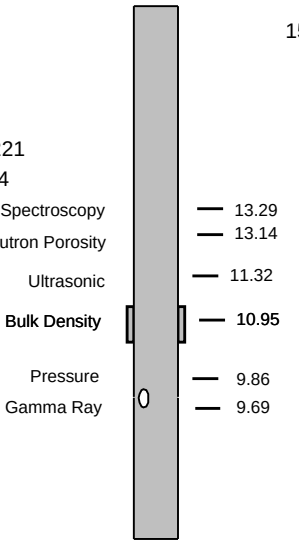
Maximum string diameter 9.50 in.
All lengths in Meters

DOWNHOLE EQUIPMENT

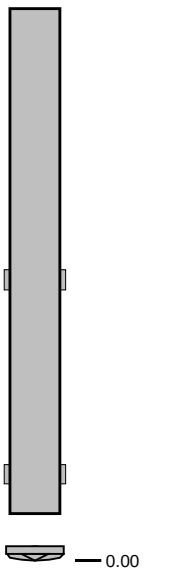
6−3/4" Telescope* 24.44
DHS: 9.2C02
MDC: FU22
MEC: 862
MDI: 2536
MVC: 282



6−3/4" EcoScope* 15.93
SN#805
DHS: v2.2
BladeOD: 9−1/8"
PNG C: 2242−41221
Source S/N: A2474



PowerDrive Xceed* 7.88
SN#267
DHS: 37B05
BladeOD: 9 3/8"



0.22
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
DVDMDHS	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 Coeeficient (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_TEMPCOR_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 Density Neutron **Vertical Scale: 1:200** **Graphics File Created: 15−Aug−2008 14:34**

PIP SUMMARY

Density Samples

Neutron Samples

Gamma Ray Samples

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

Ultrasonic Caliper, Vertical Diameter (UCVE)
6 (IN) 16

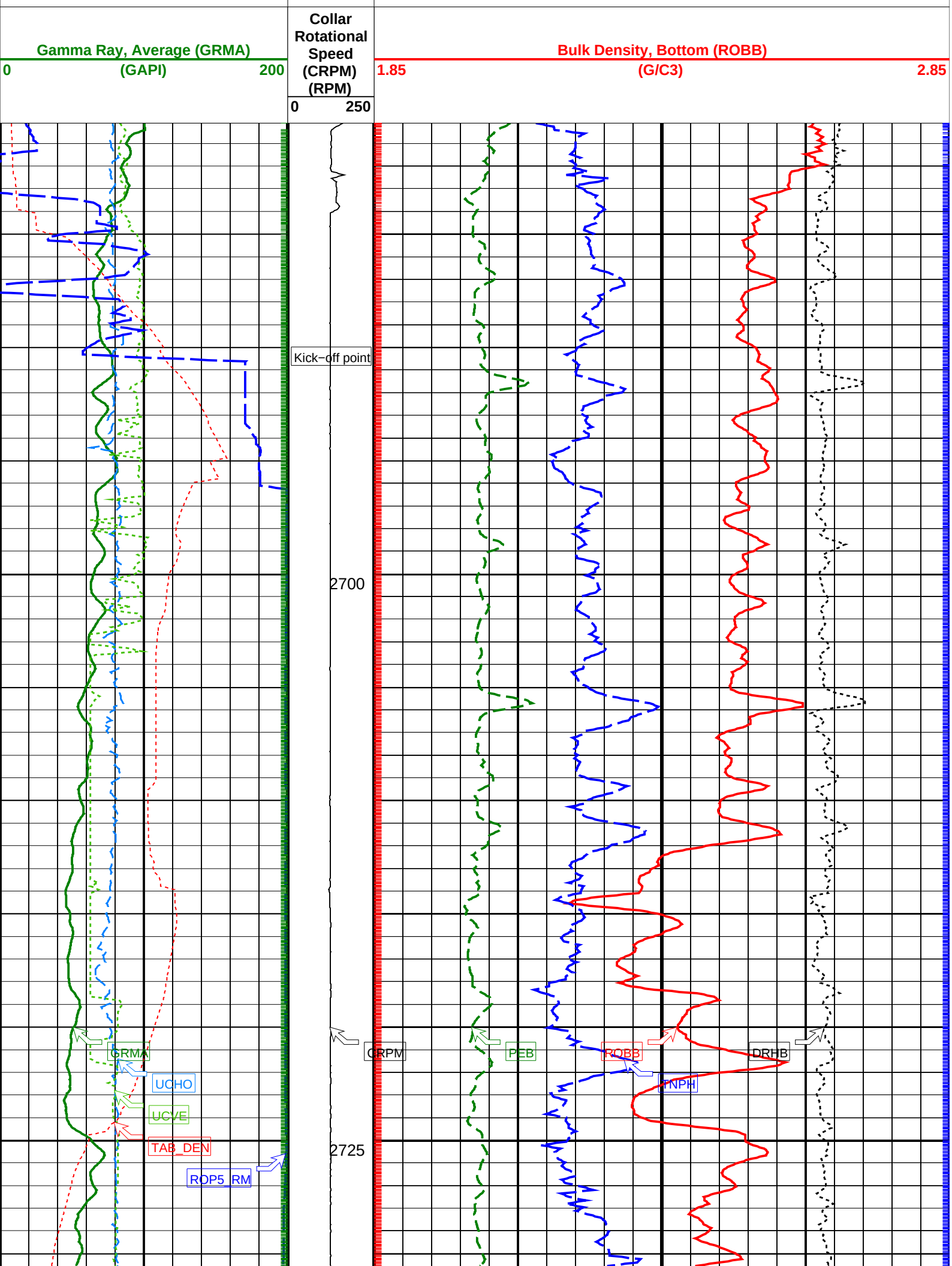
Ultrasonic Caliper, Horizontal Diameter (UCHO)
6 (IN) 16

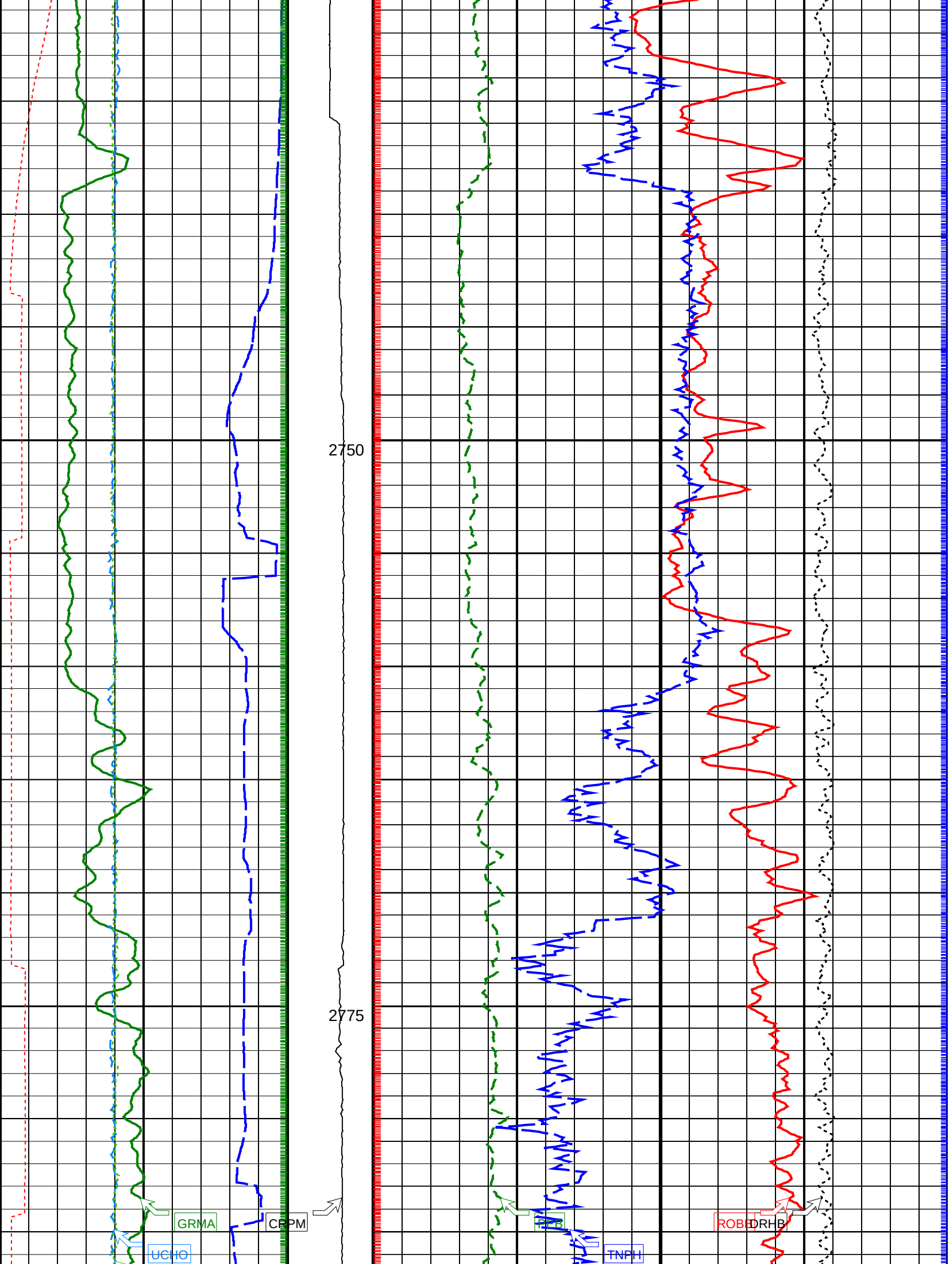
Time after BIT (between drilling and measurement) (TAB_DEN)
0 (HR) 10

Photoelectric Factor, Bottom (PEB)
0 (---- 10

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

Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH)
45 (PU) −15


Gamma Ray, Average (GRMA)
0
(GAPI)
200
Collar Rotational Speed (CRPM) (RPM)
0
250
Bulk Density, Bottom (ROBB)
1.85
(G/C3)
2.85
Kick-off point
2700
2725
GRMA
UCHO
UCVE
TAB_DEN
ROP5_RM
CRPM
PEB
ROBB
TNPH
DRHB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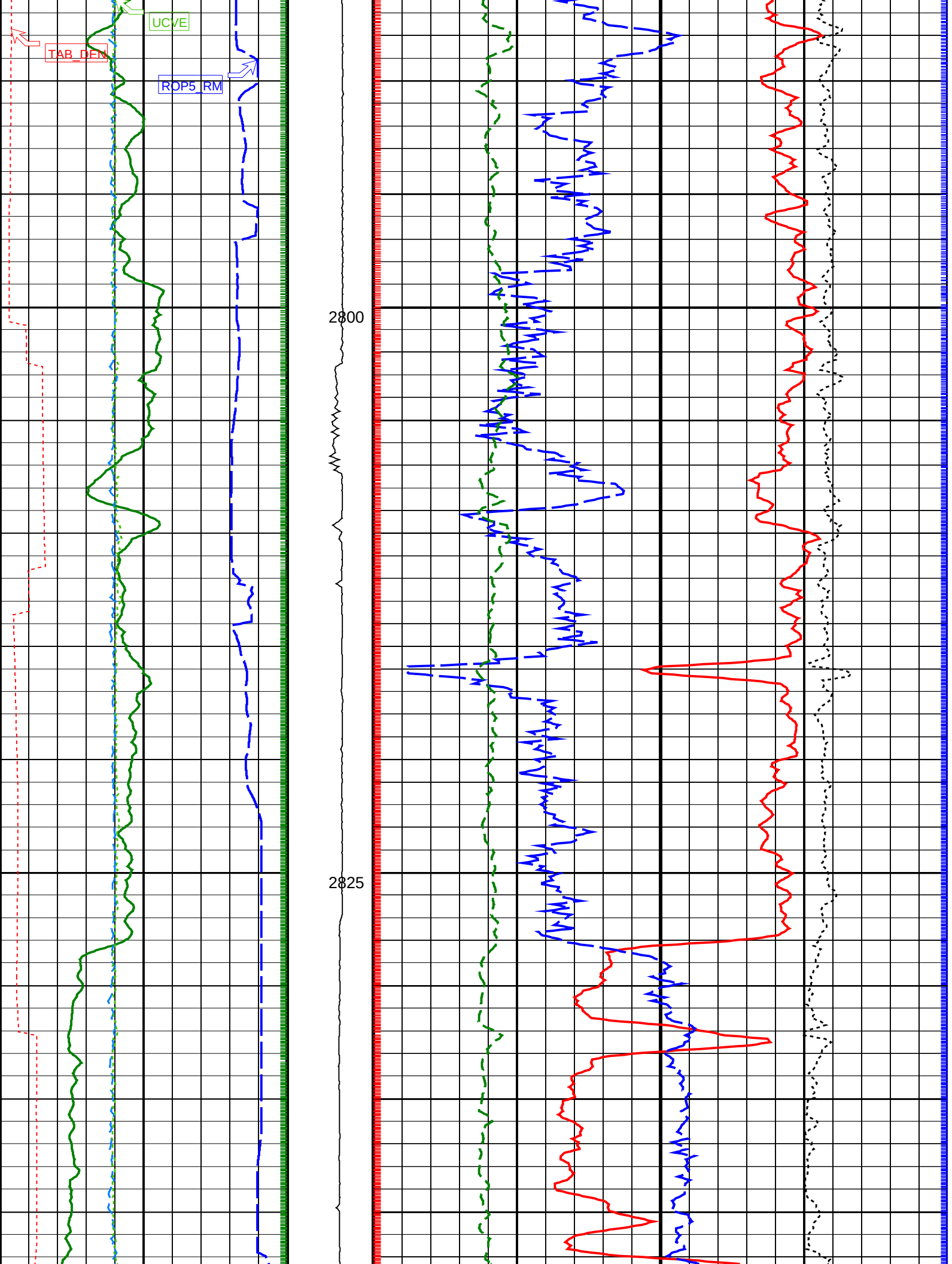
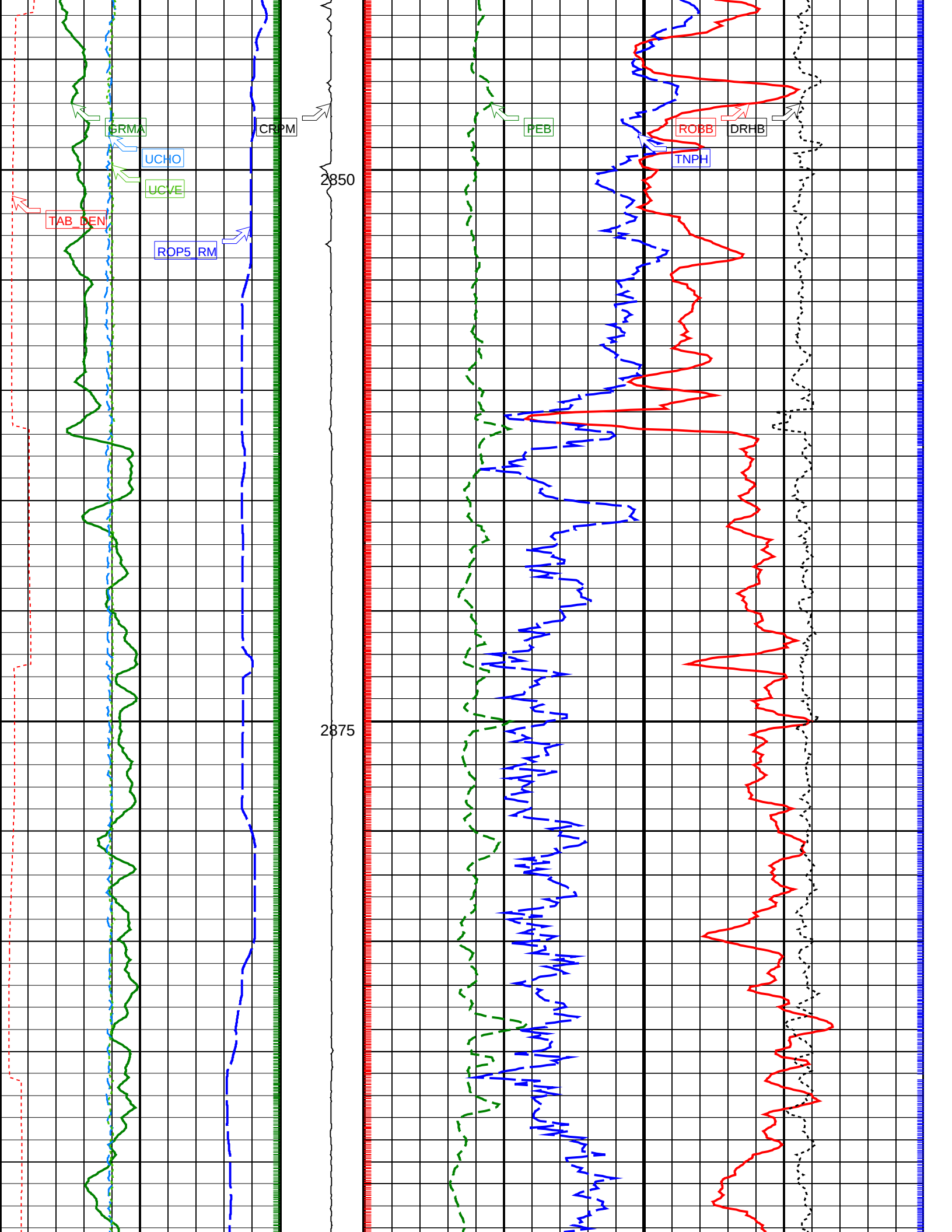
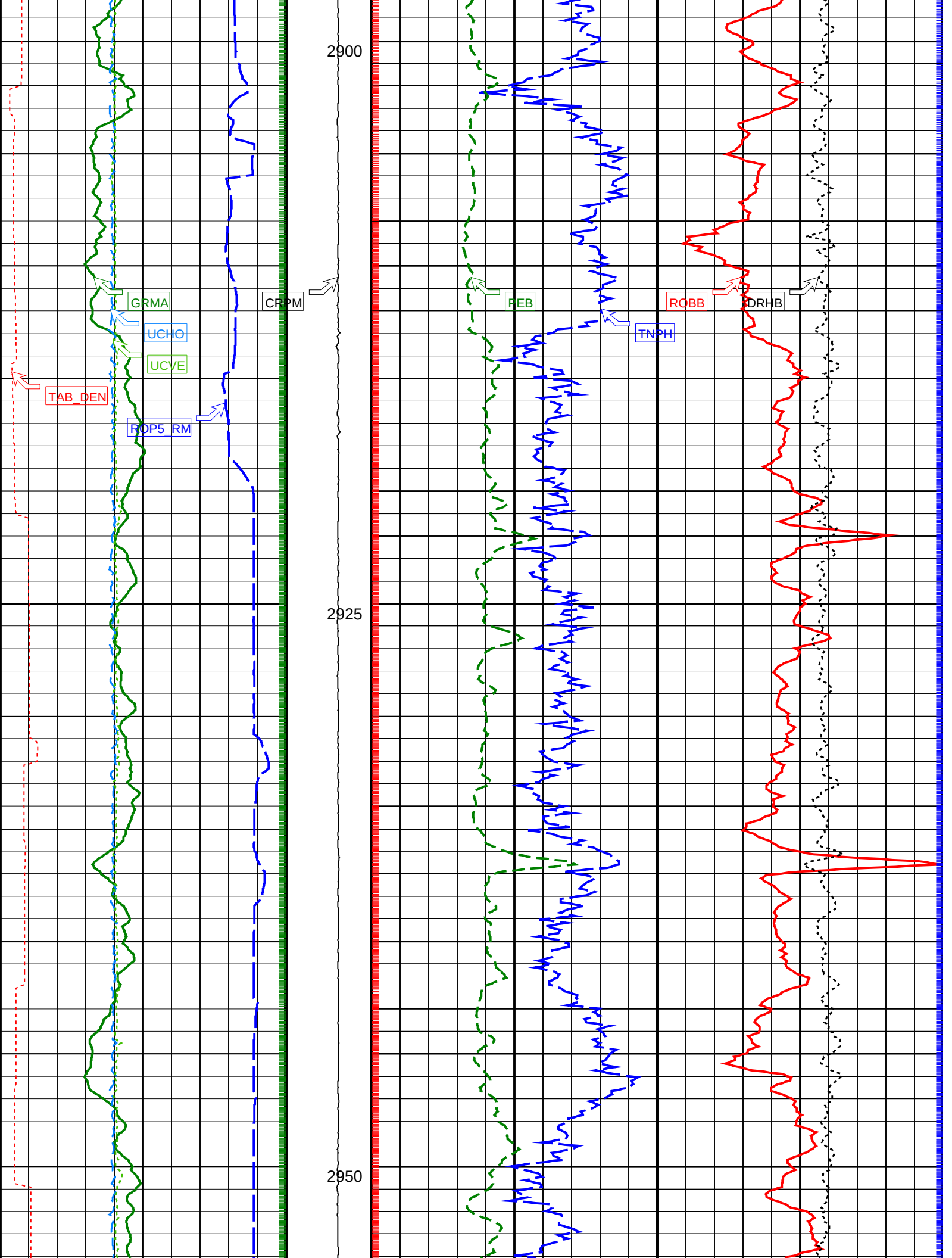
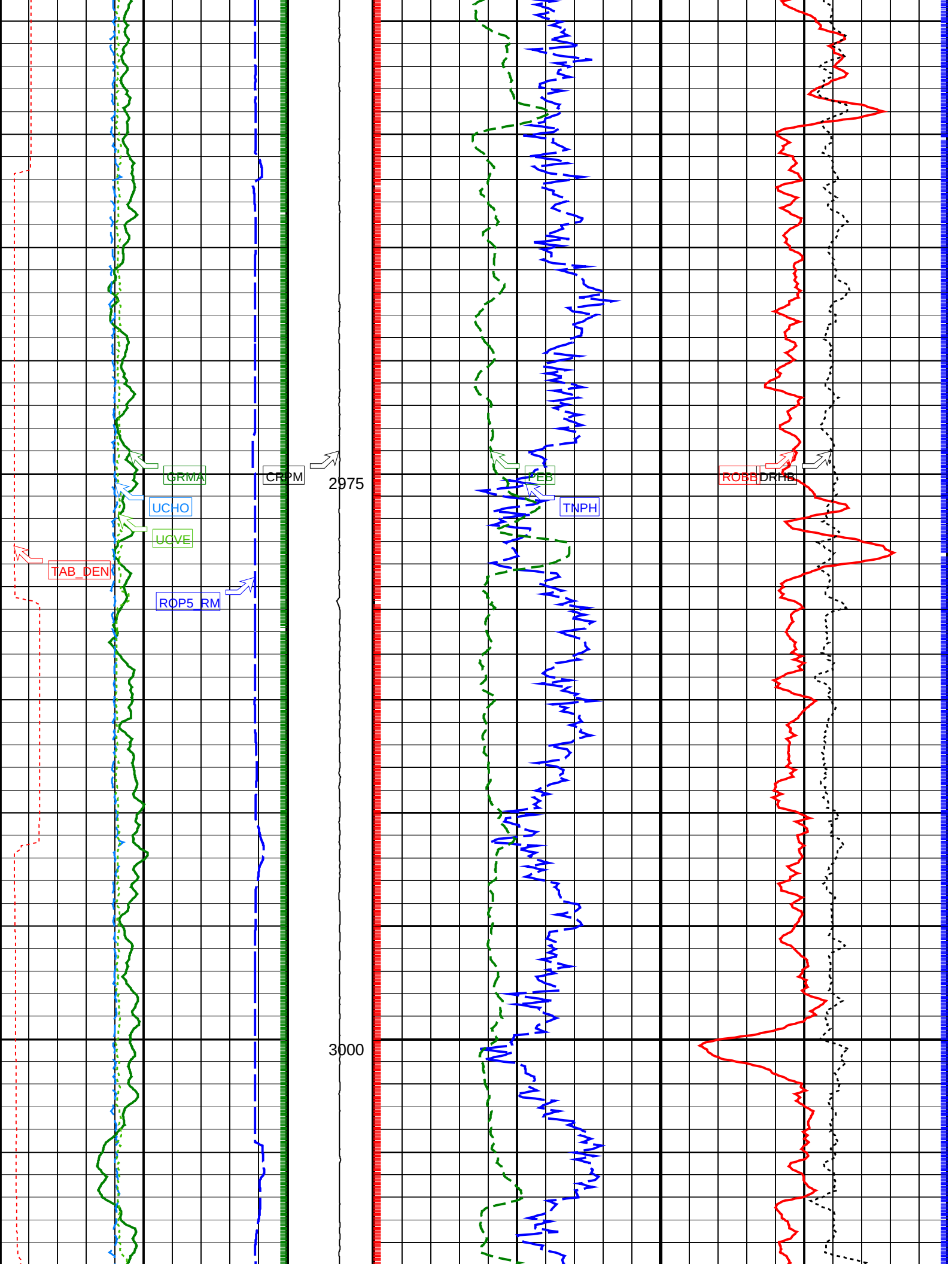
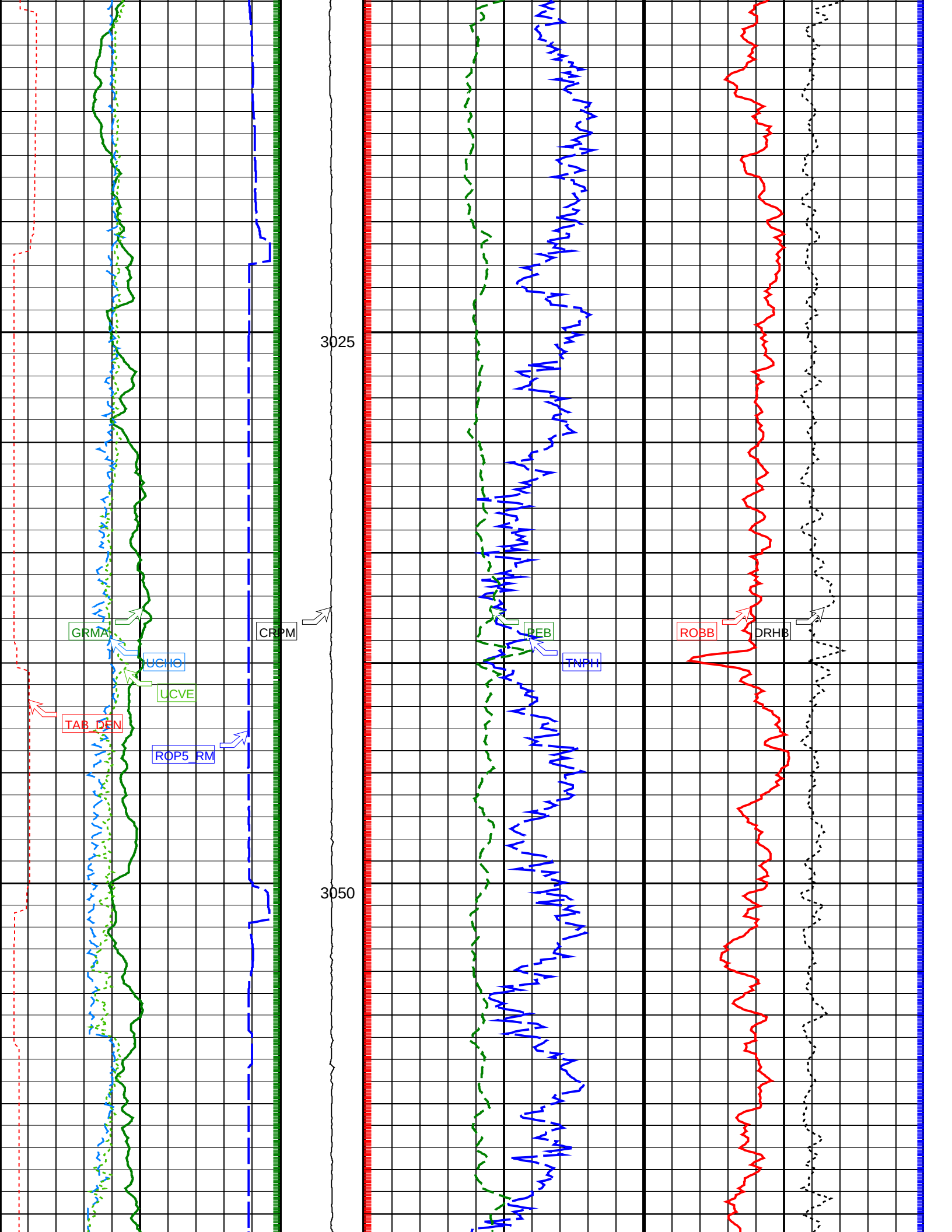
2775
GRMA
CBPM
UCHO
RHOB
TNPH
ROBB
DRHB

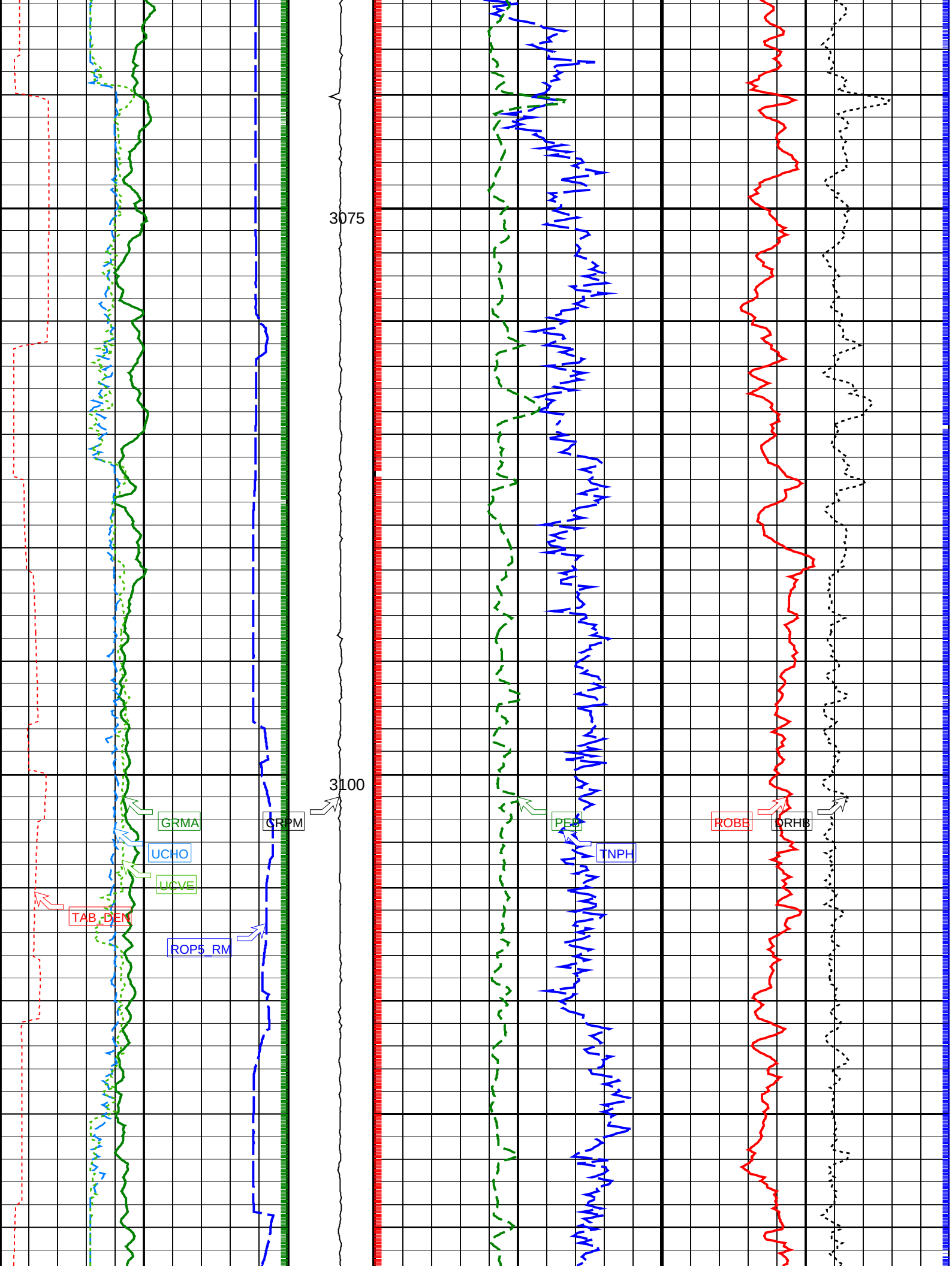

UCVE
TAB_DEN
ROP5_RM
2800
2825


GRMA
UCHO
UCVE
TAB_DEN
ROP5_RM
CRPM
PEB
ROBB
DRHB
TNPH
2850
2875


2900
2925
2950
GRMA
UCHO
UCVE
TAB_DEN
ROP5_RM
CRPM
PEB
TNPH
ROBB
DRHB


GRMA
CRPM
2975
UCHO
UCVE
TAB_DEN
ROP5_RM
TNPH
ROBB
DRHB
3000


3025
3050
GRMA
CRPM
RPEB
TNPH
ROBB
DRHB
UCHO
UCVE
TAB_DEN
ROP5_RM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GRPM
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PEB
TNPH
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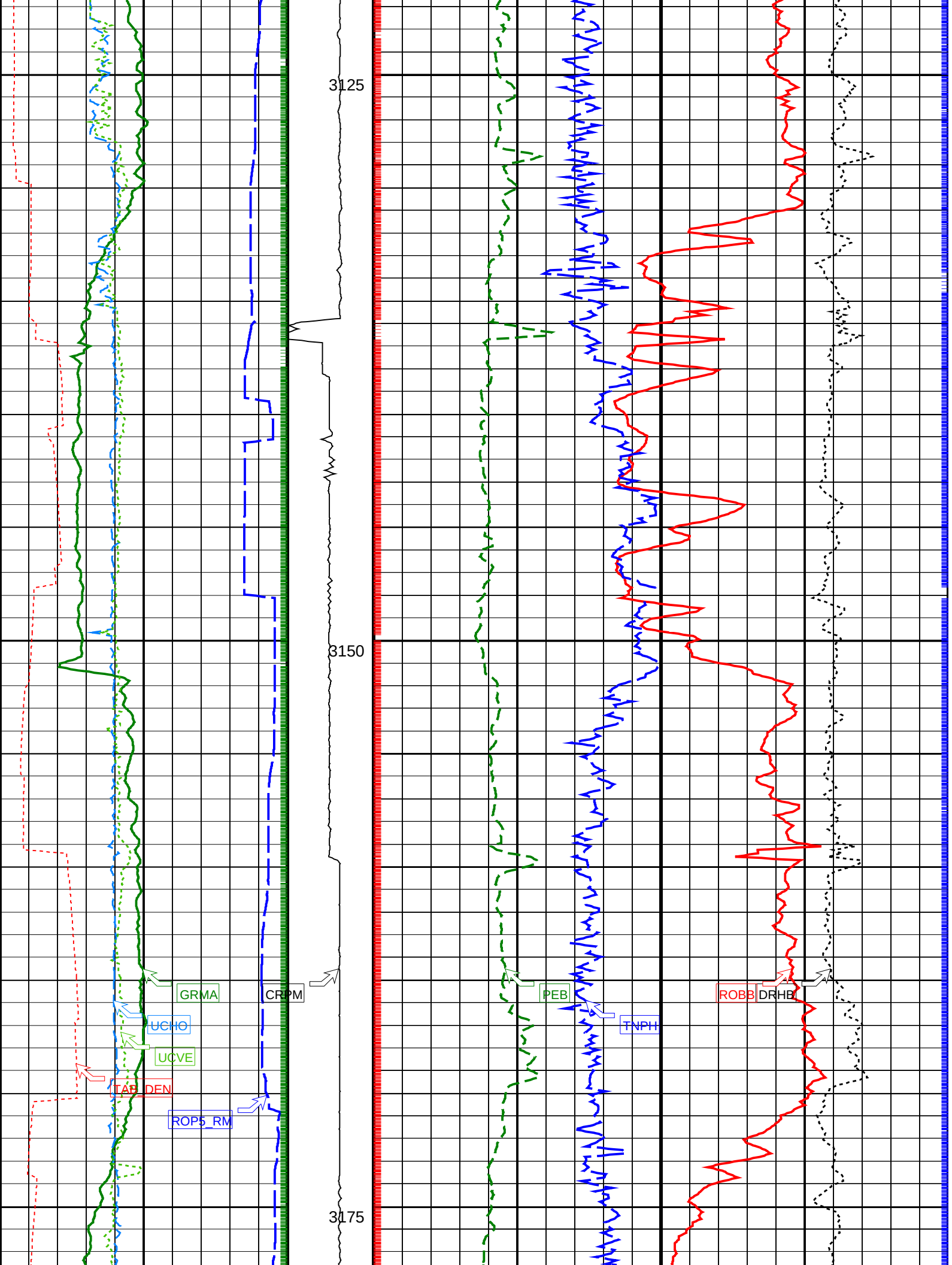
DRHB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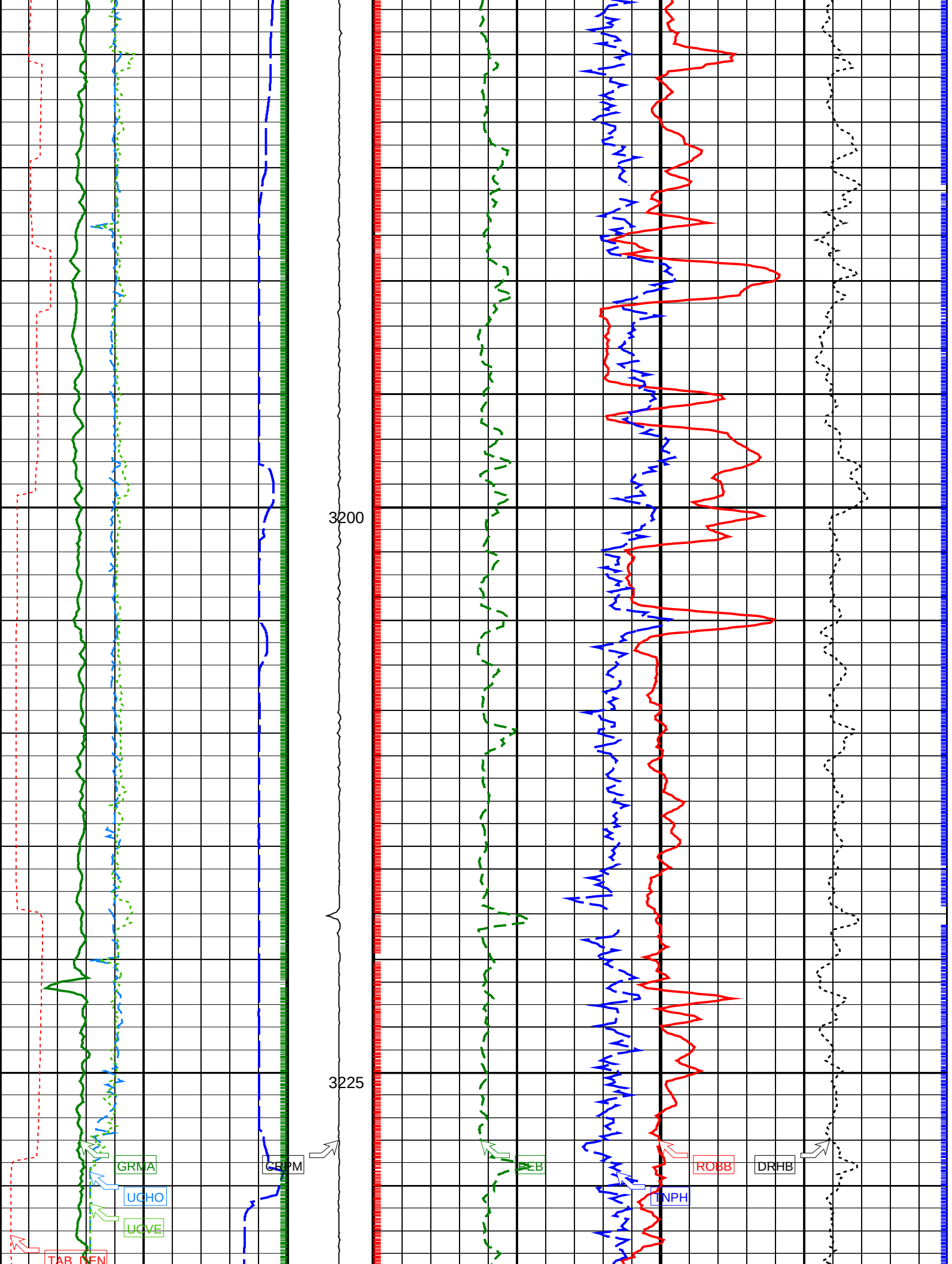
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TNPH
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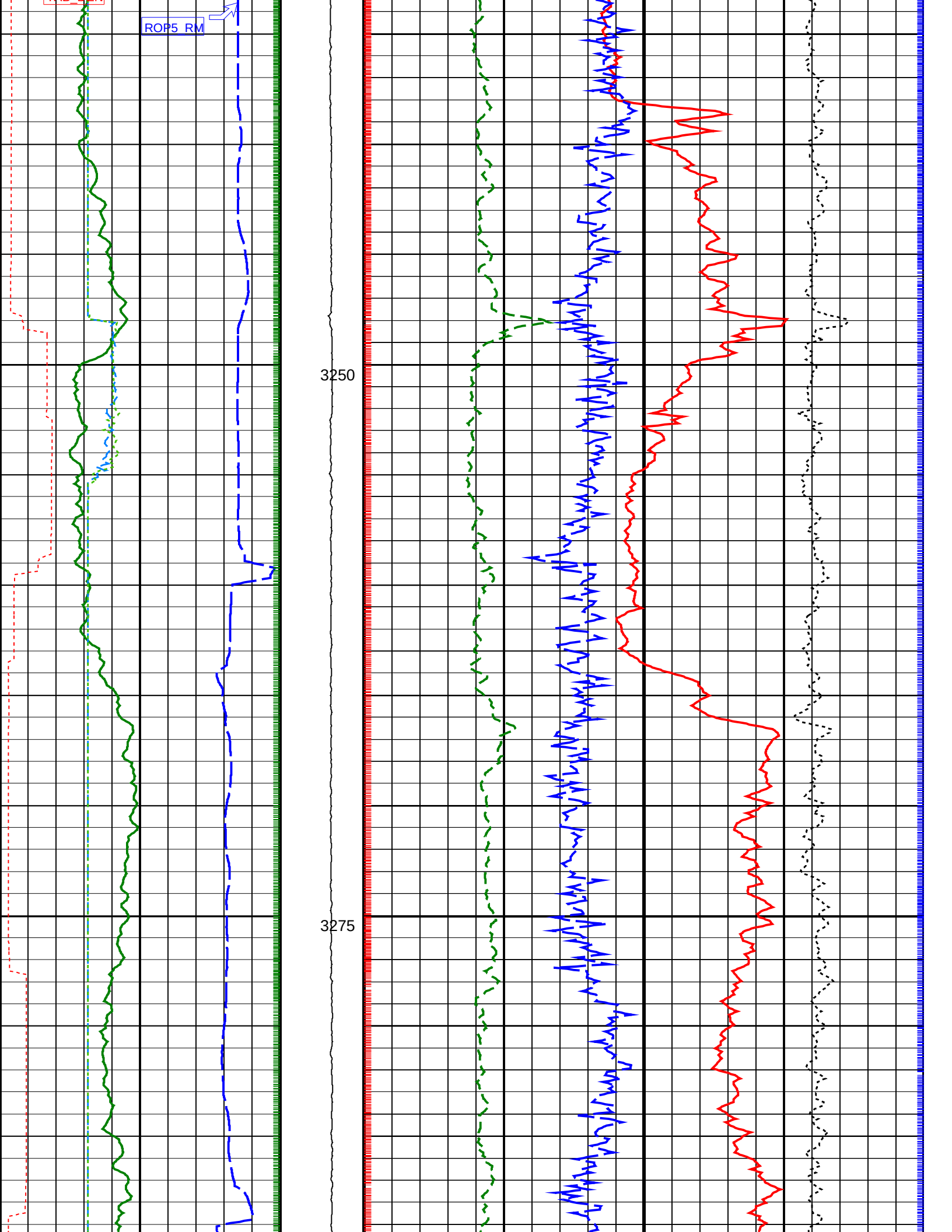
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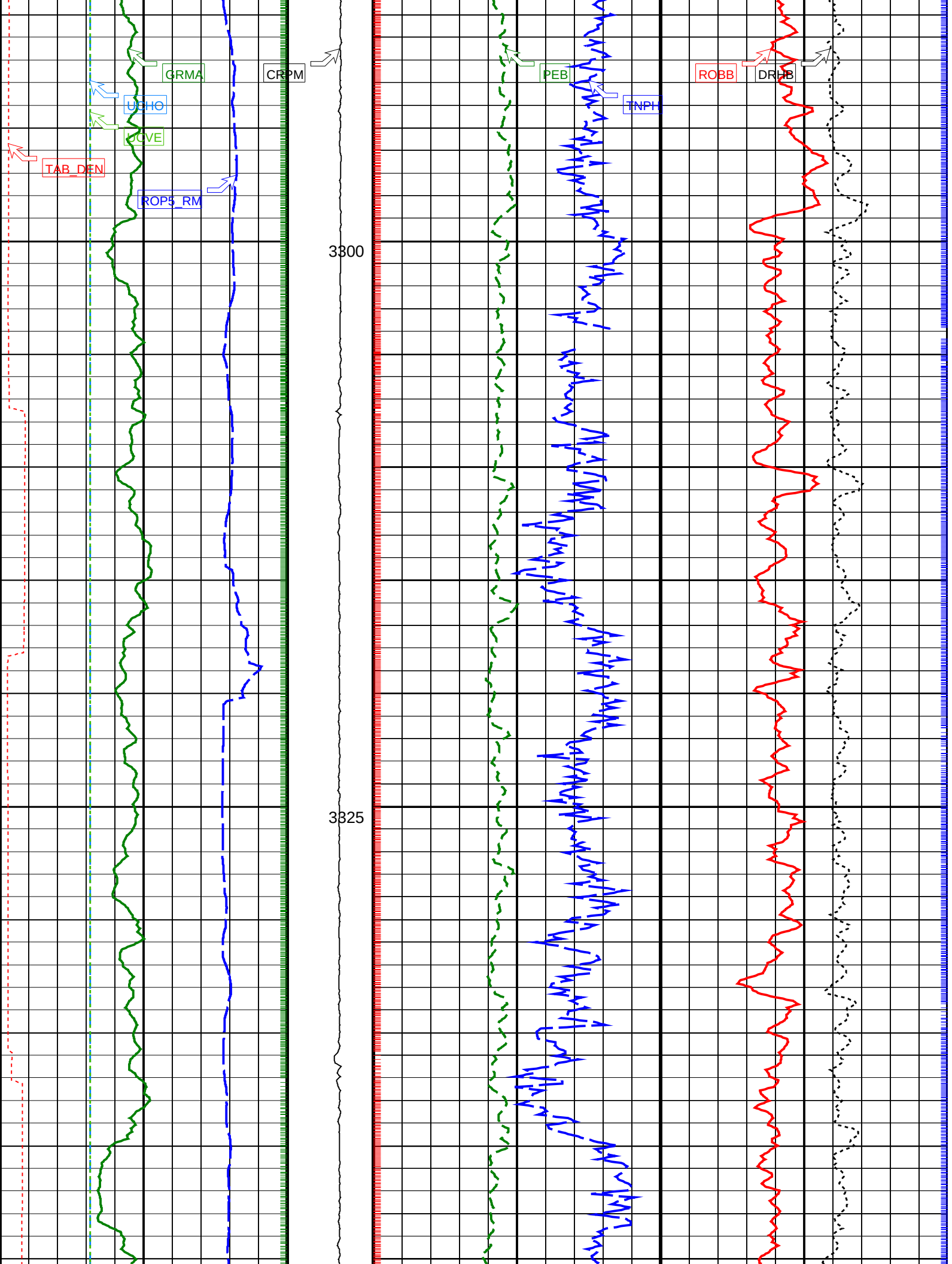
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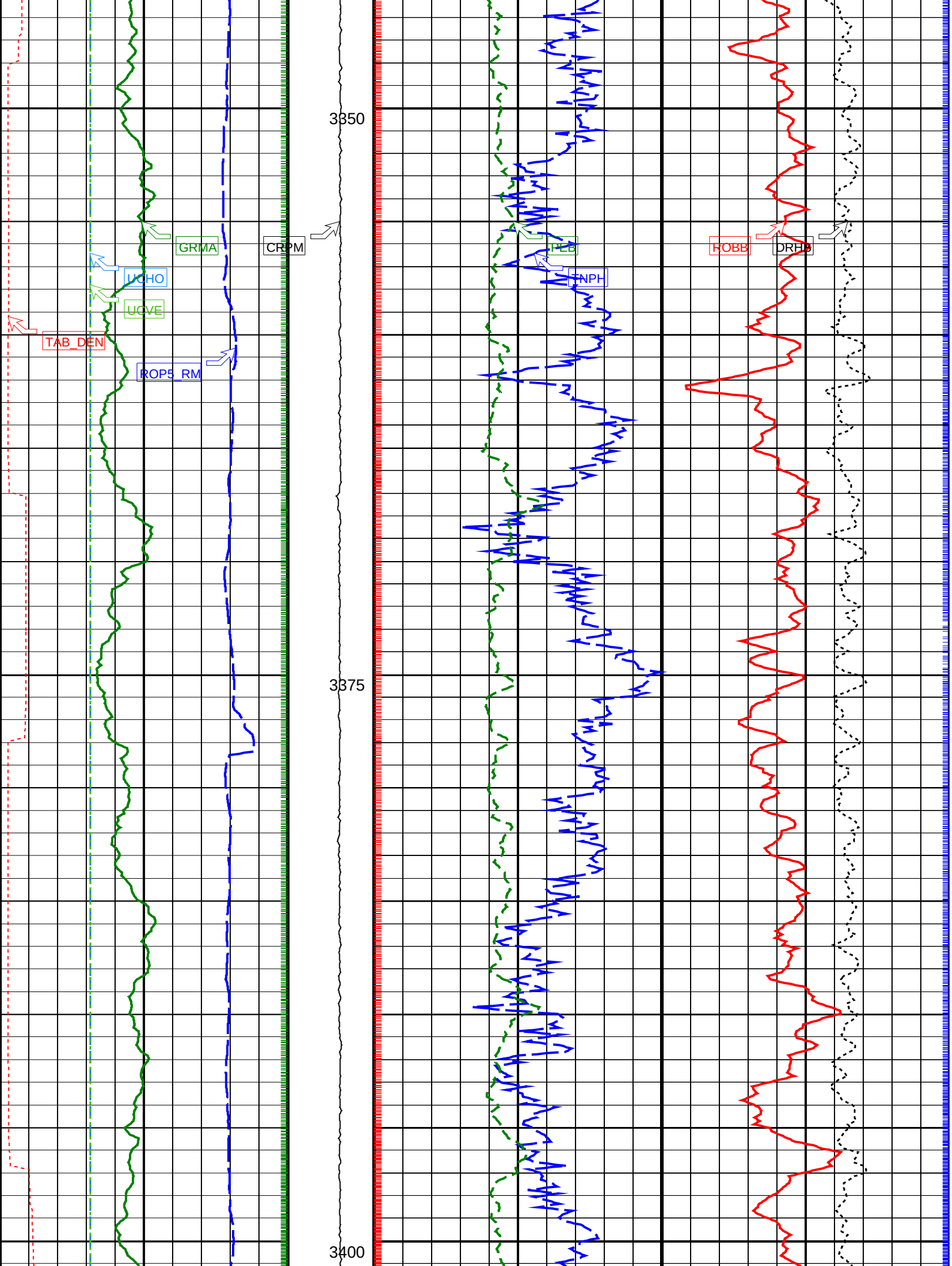
TNPH
ROBB
DRHB
3300
3325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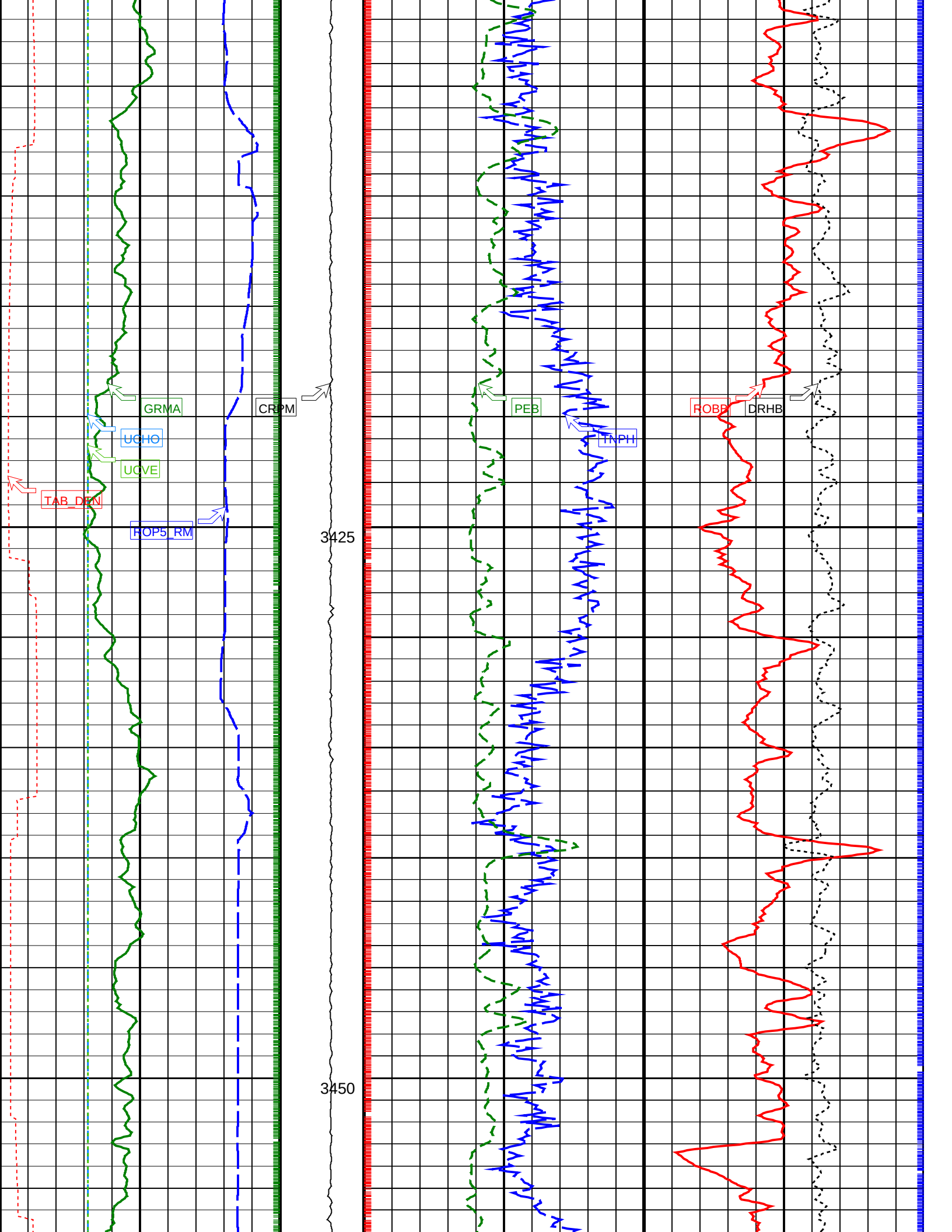
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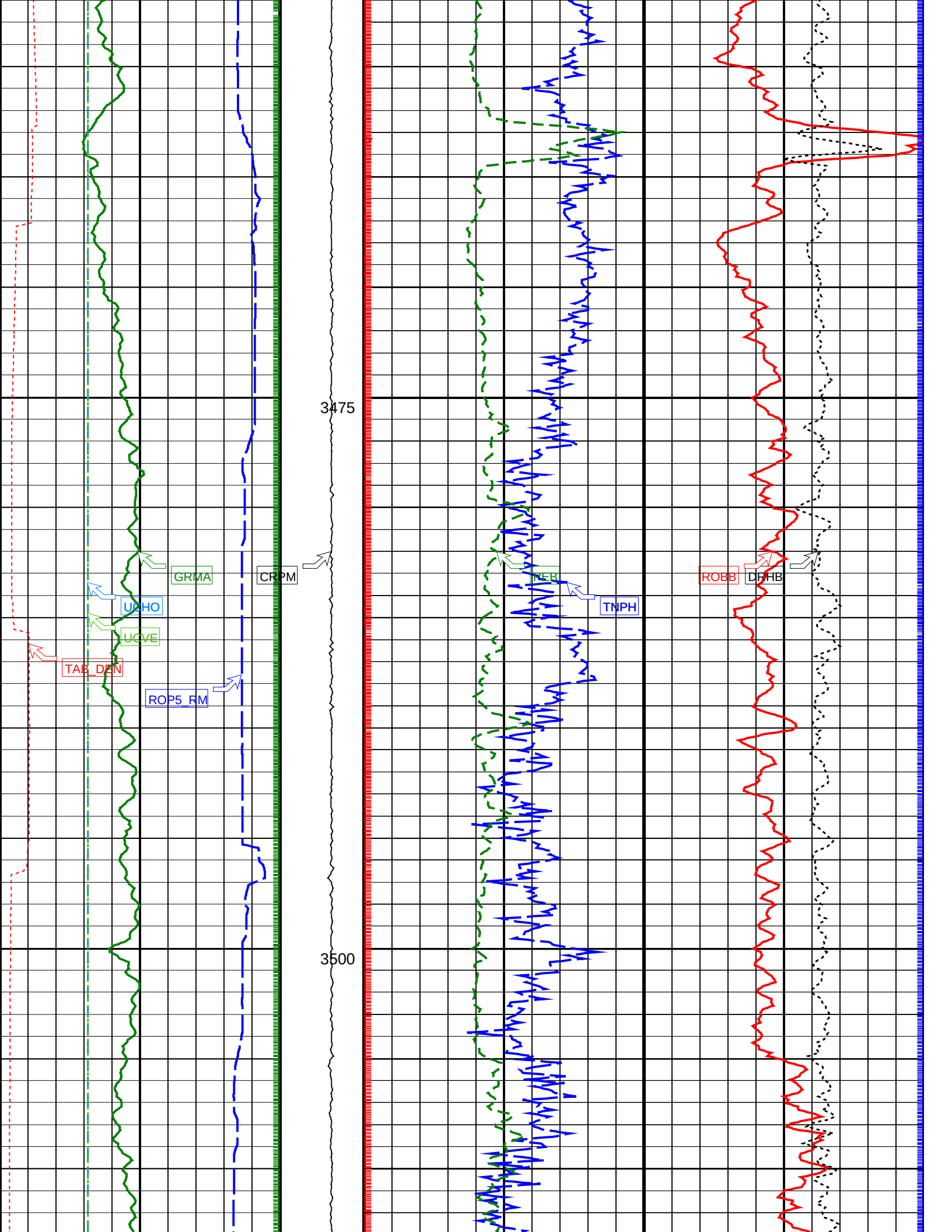
3450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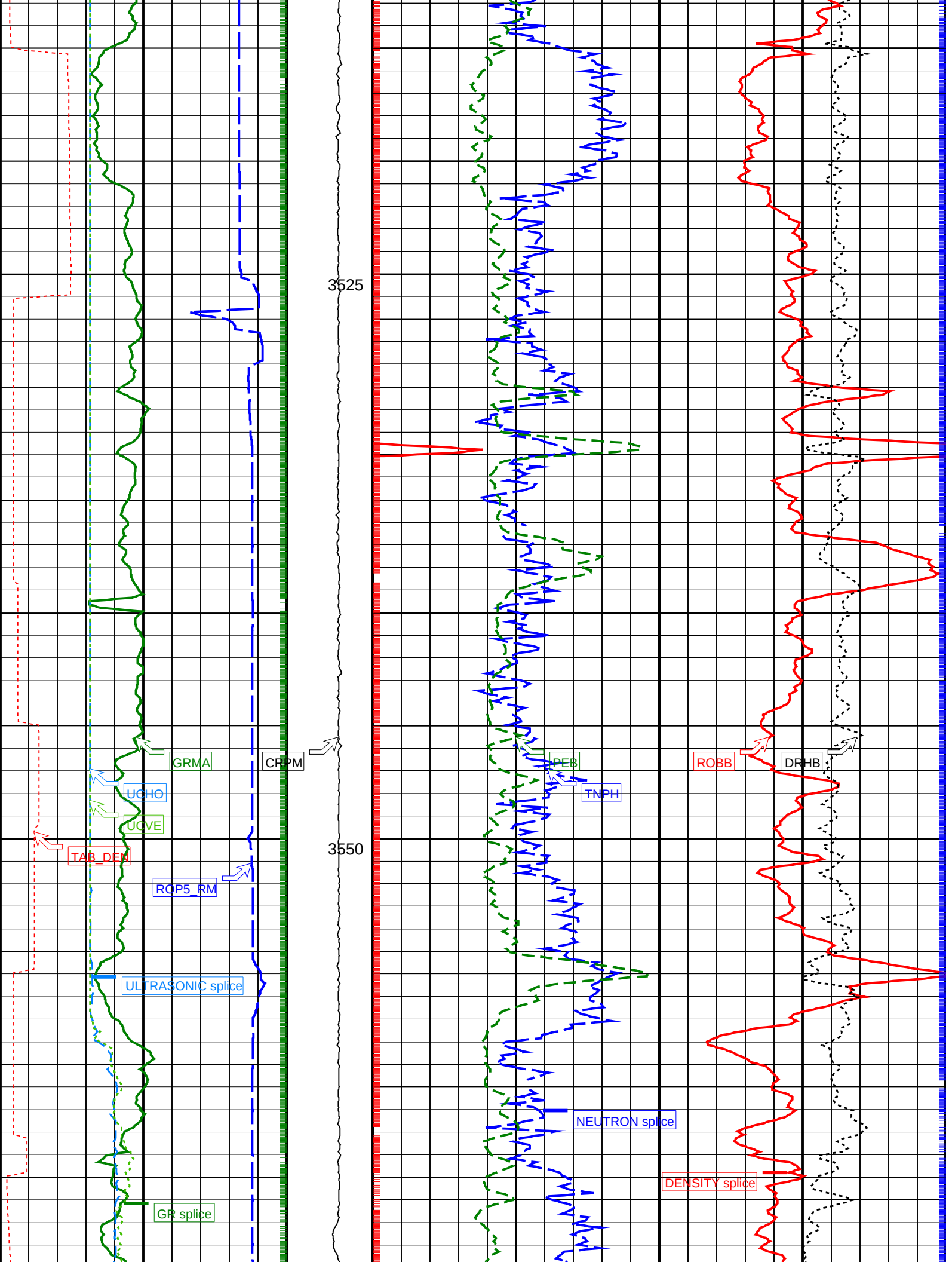
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ROP5_RM
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GR splice
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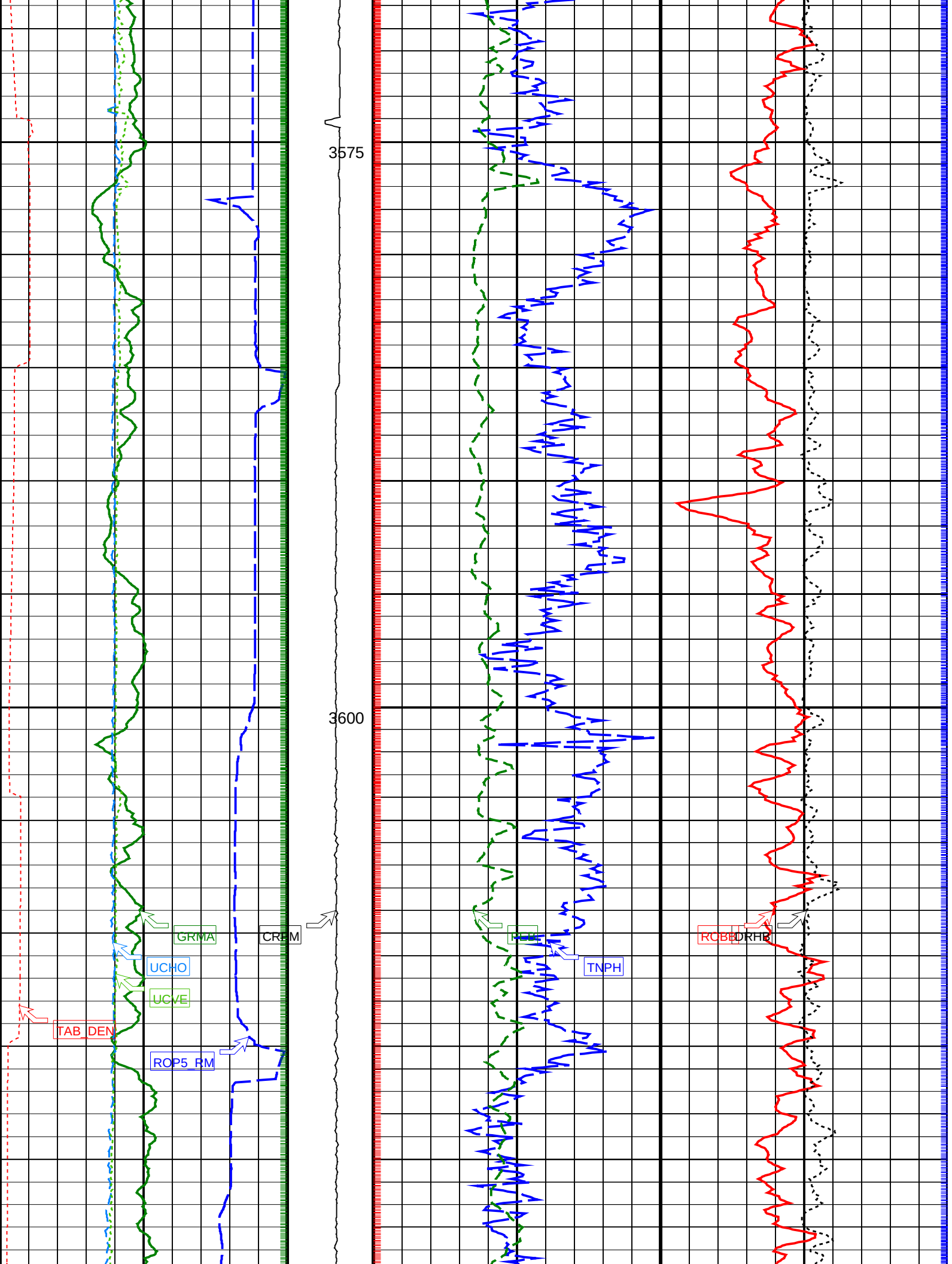
NEUTRON splice
ROBB
DRHB
DENSITY splice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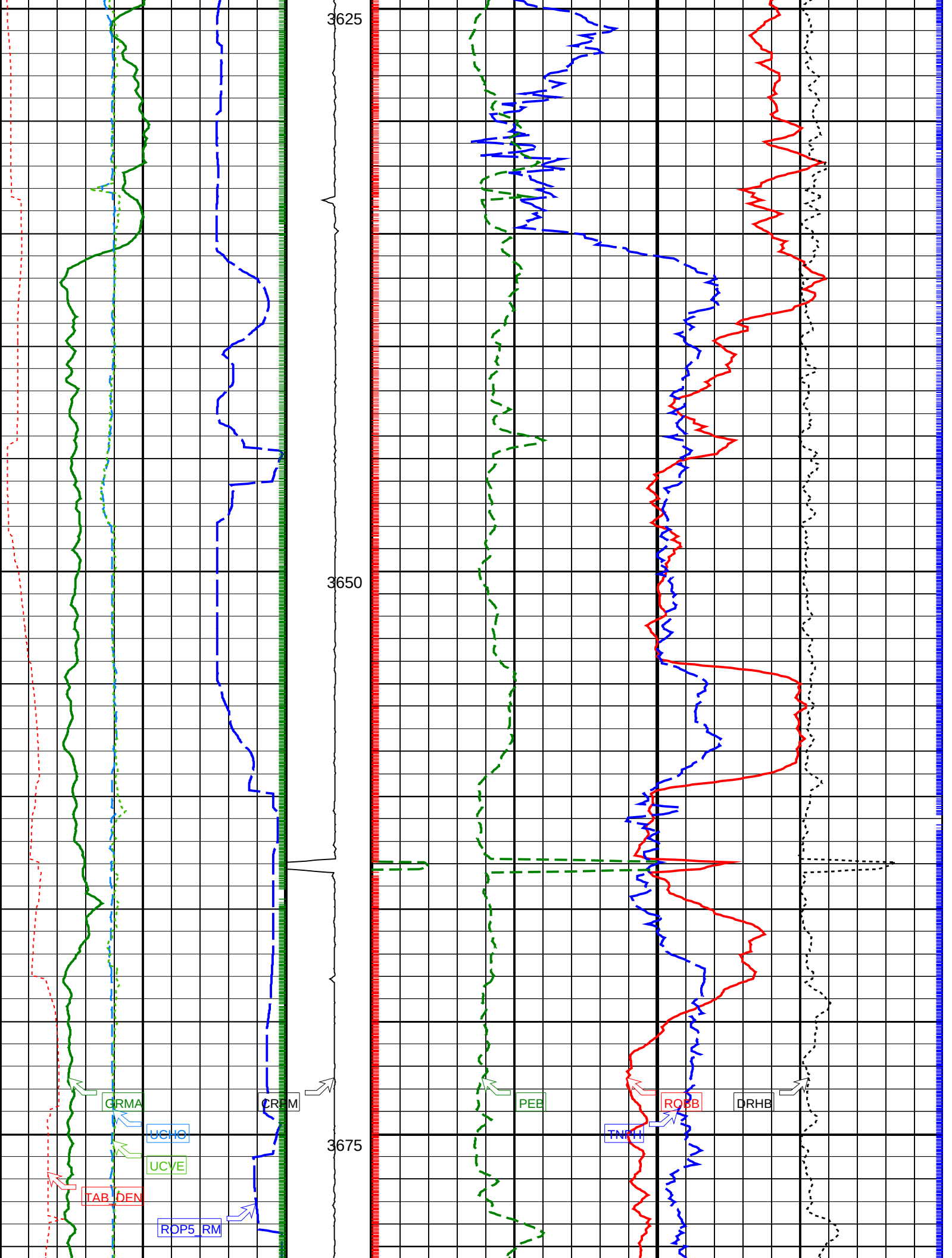
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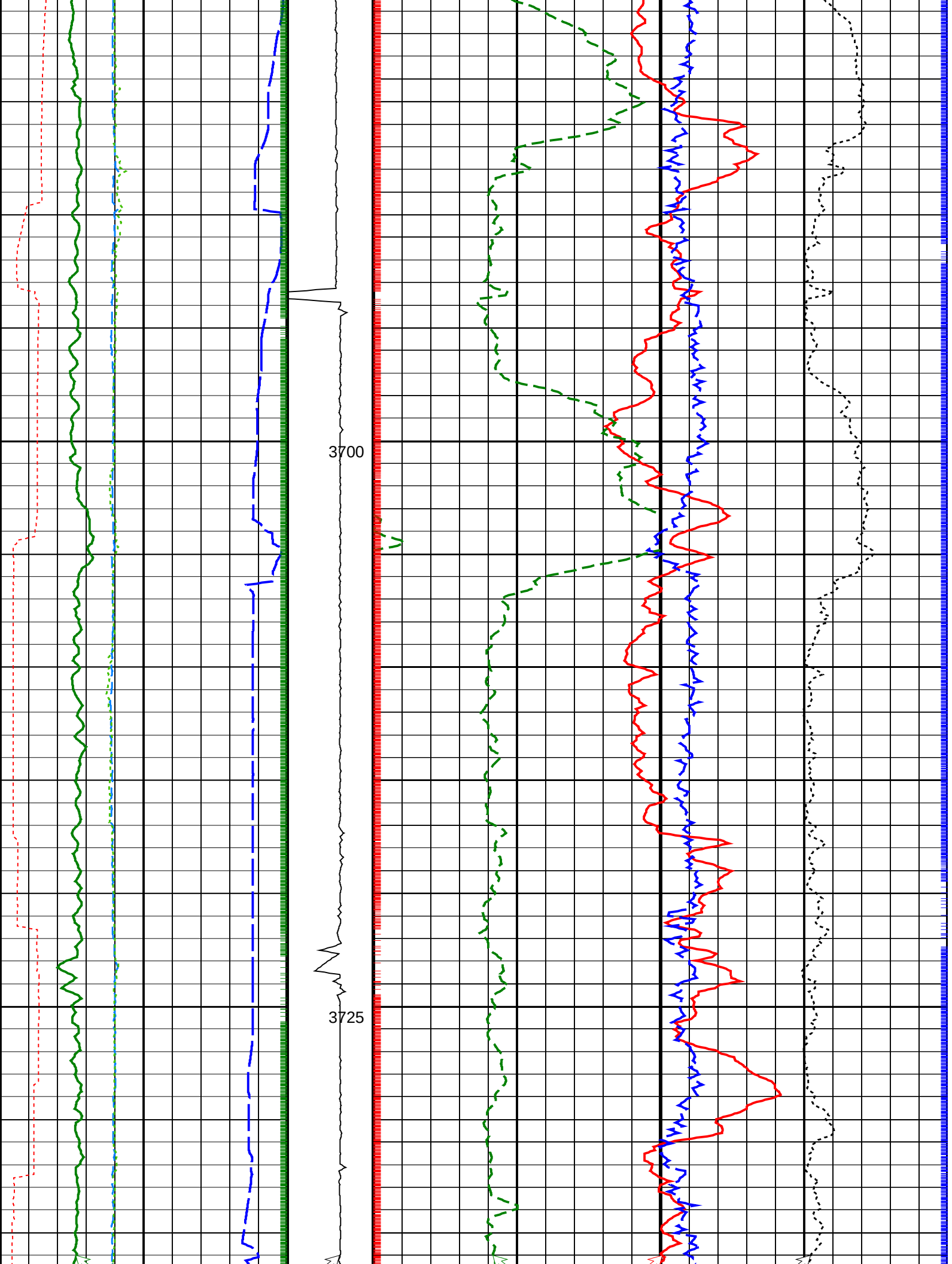
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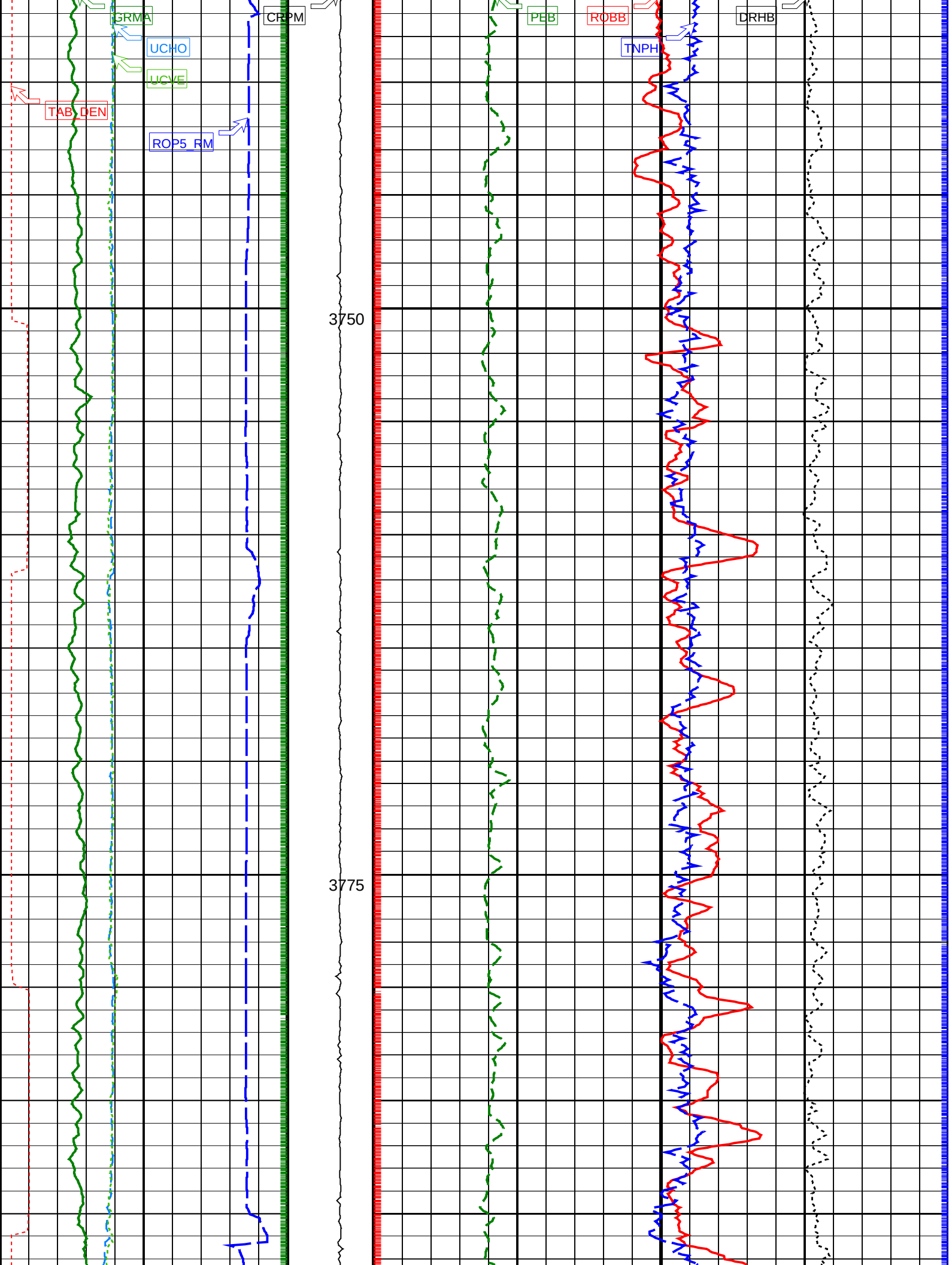
3725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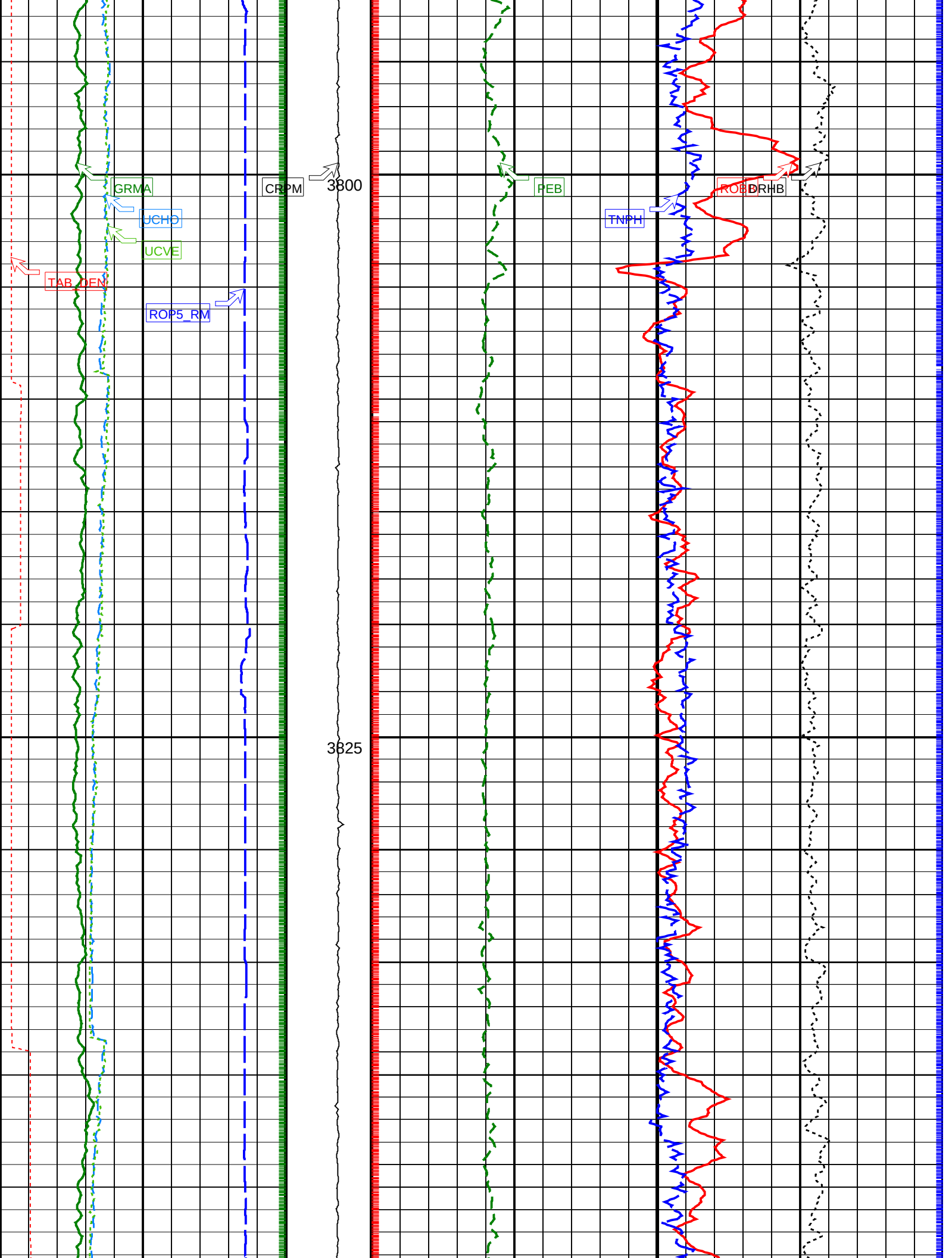
UCHO
UCVE
TAB_DEN
ROP5_RM
CRPM
PEB
ROBB
TNPH
DRHB
3750
3775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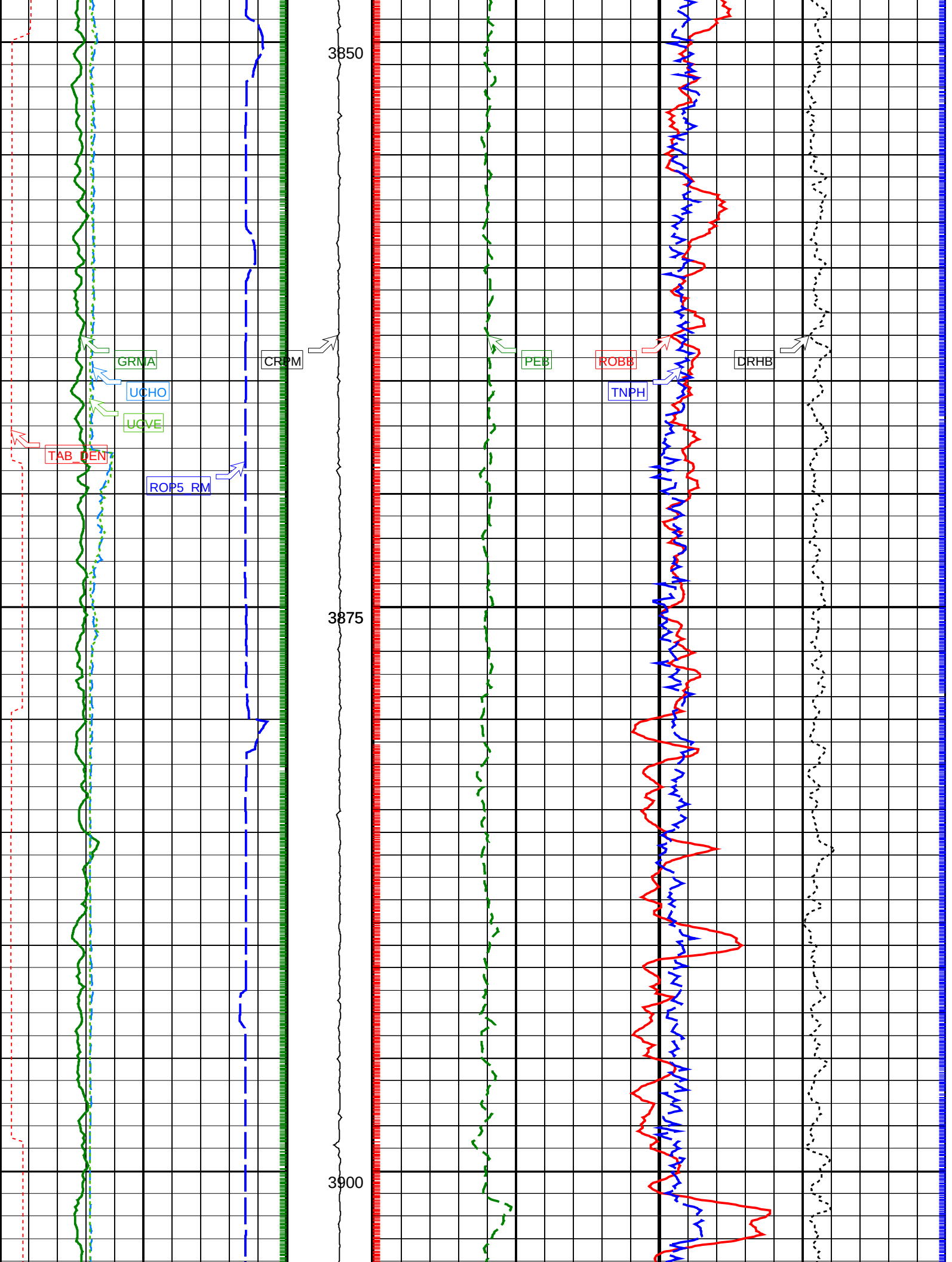
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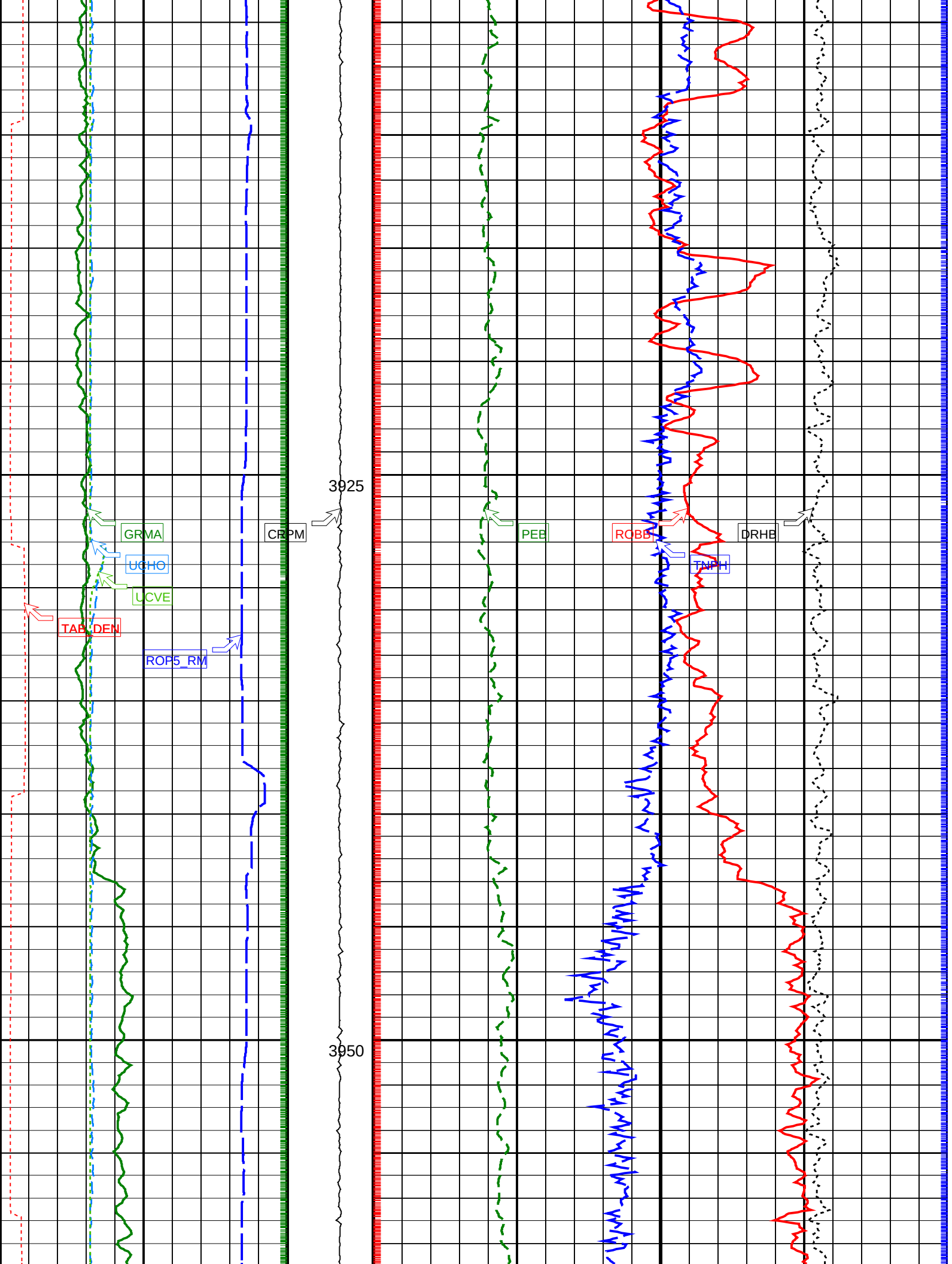
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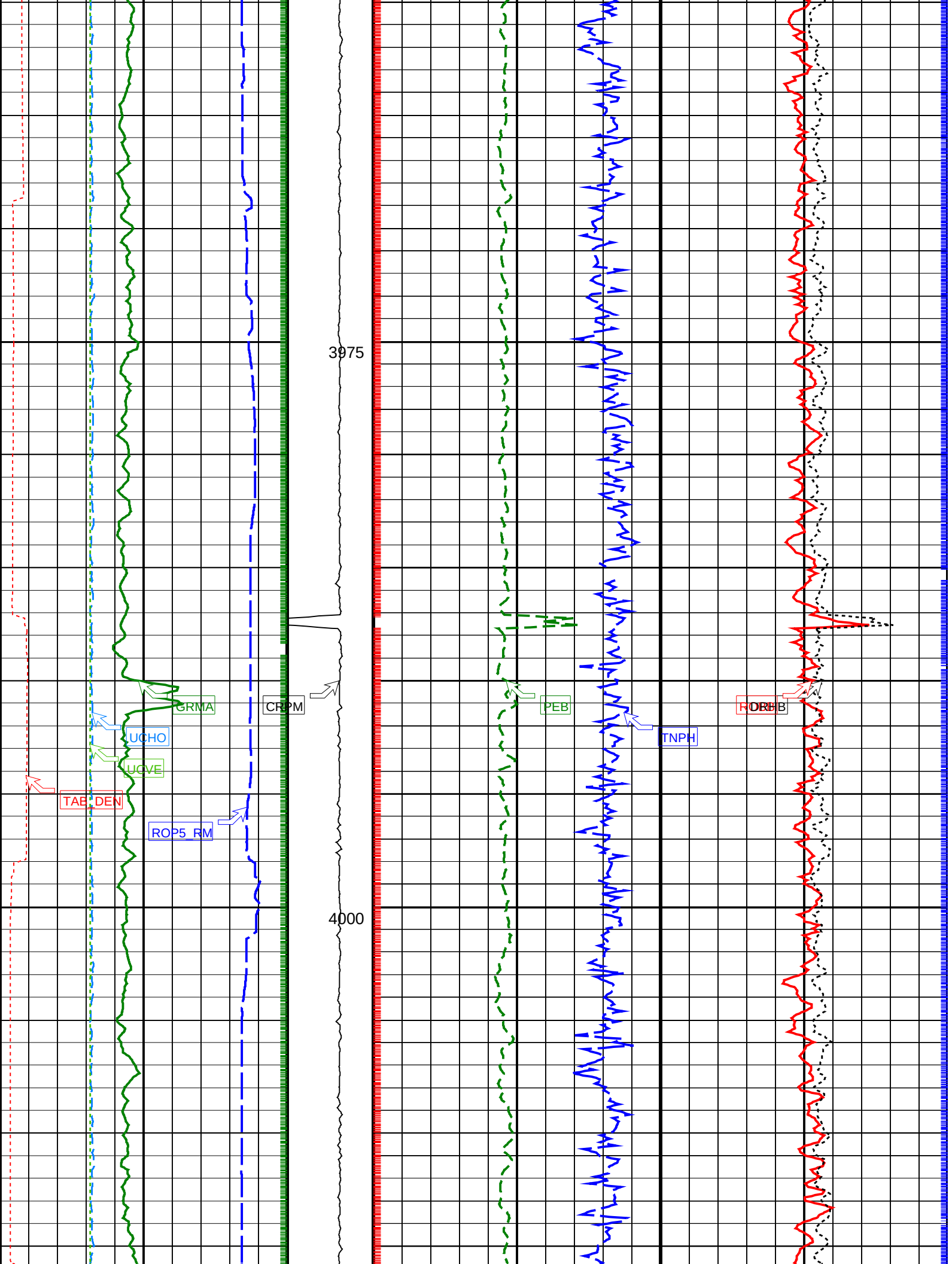
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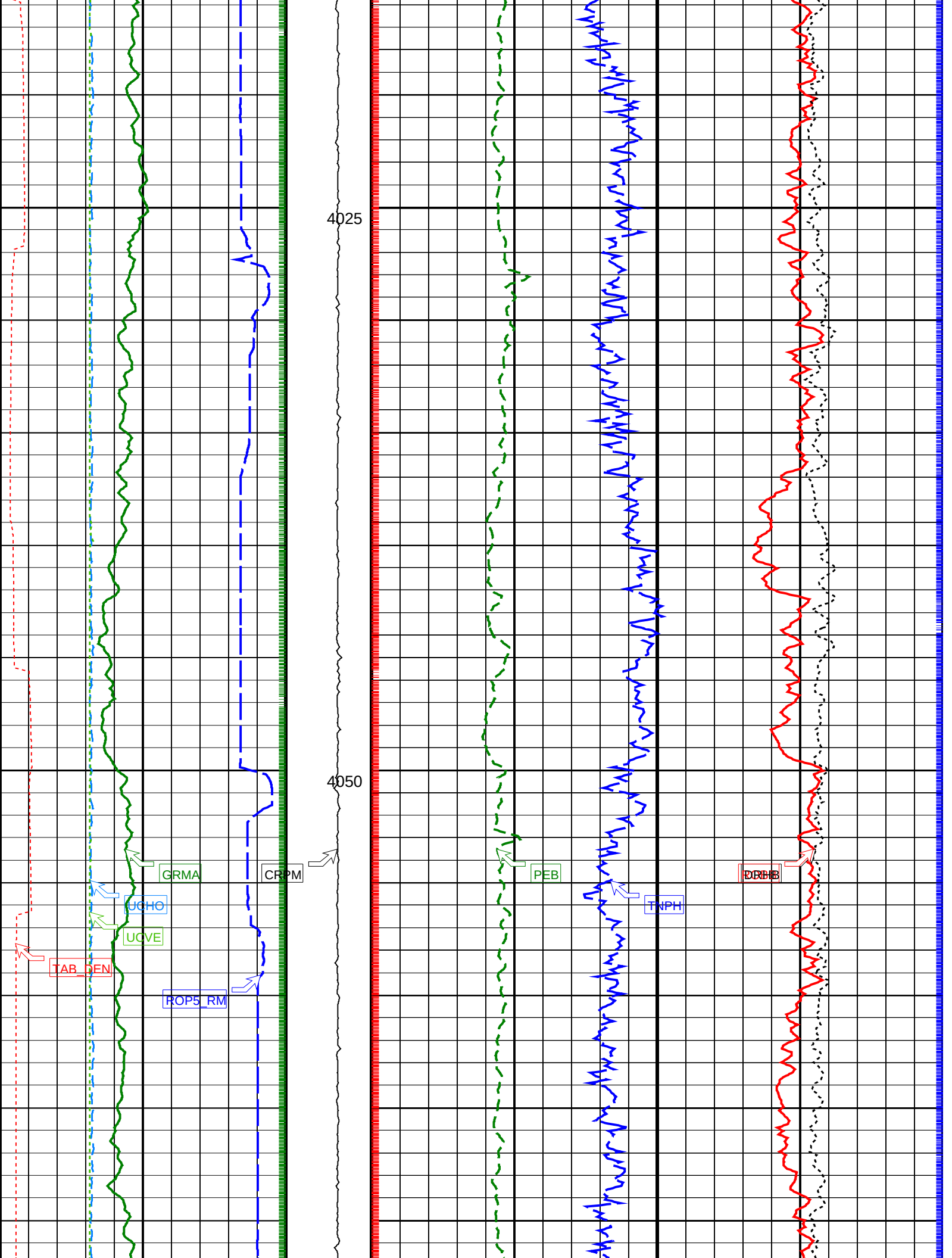
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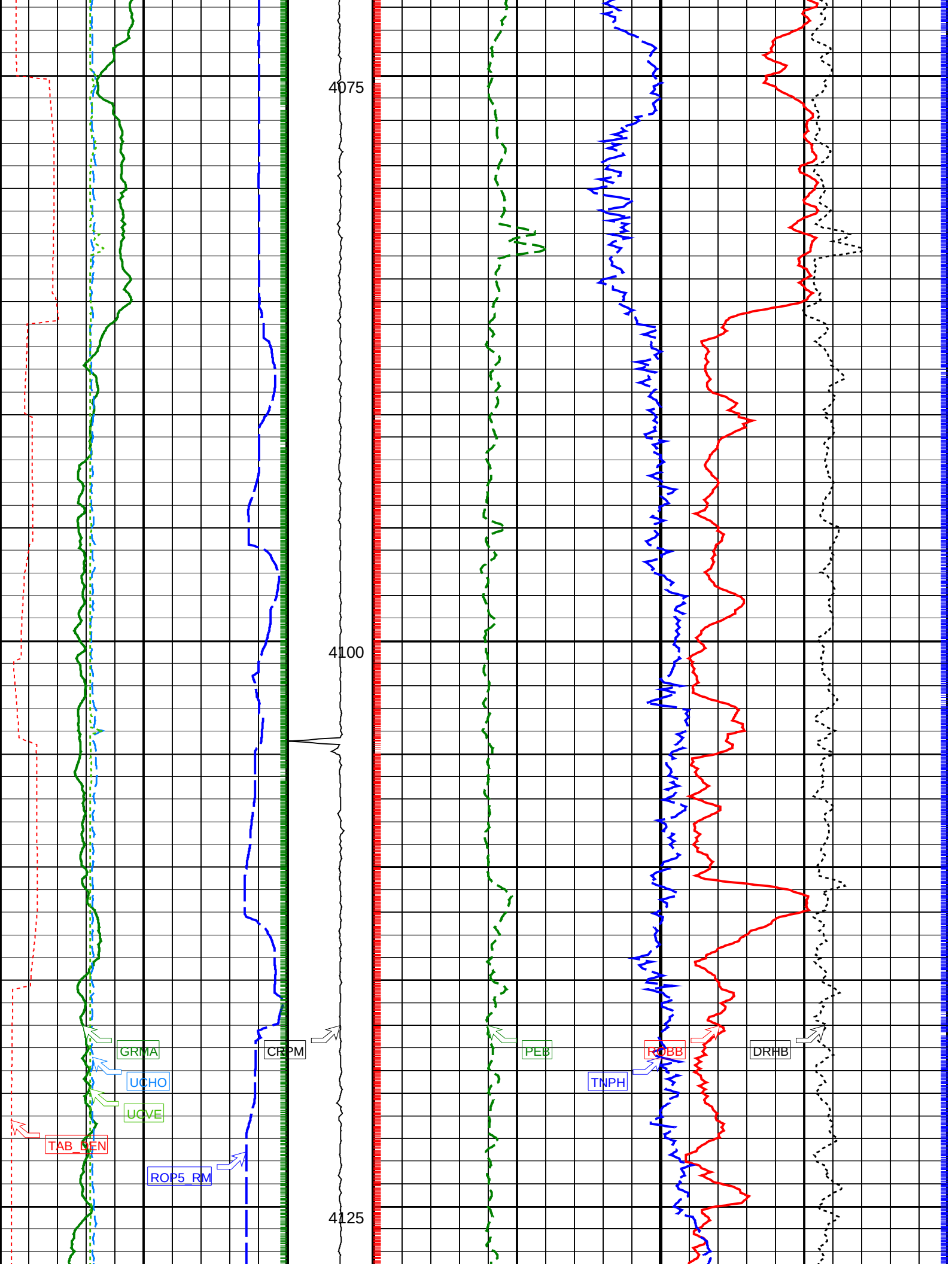
ROP5_RM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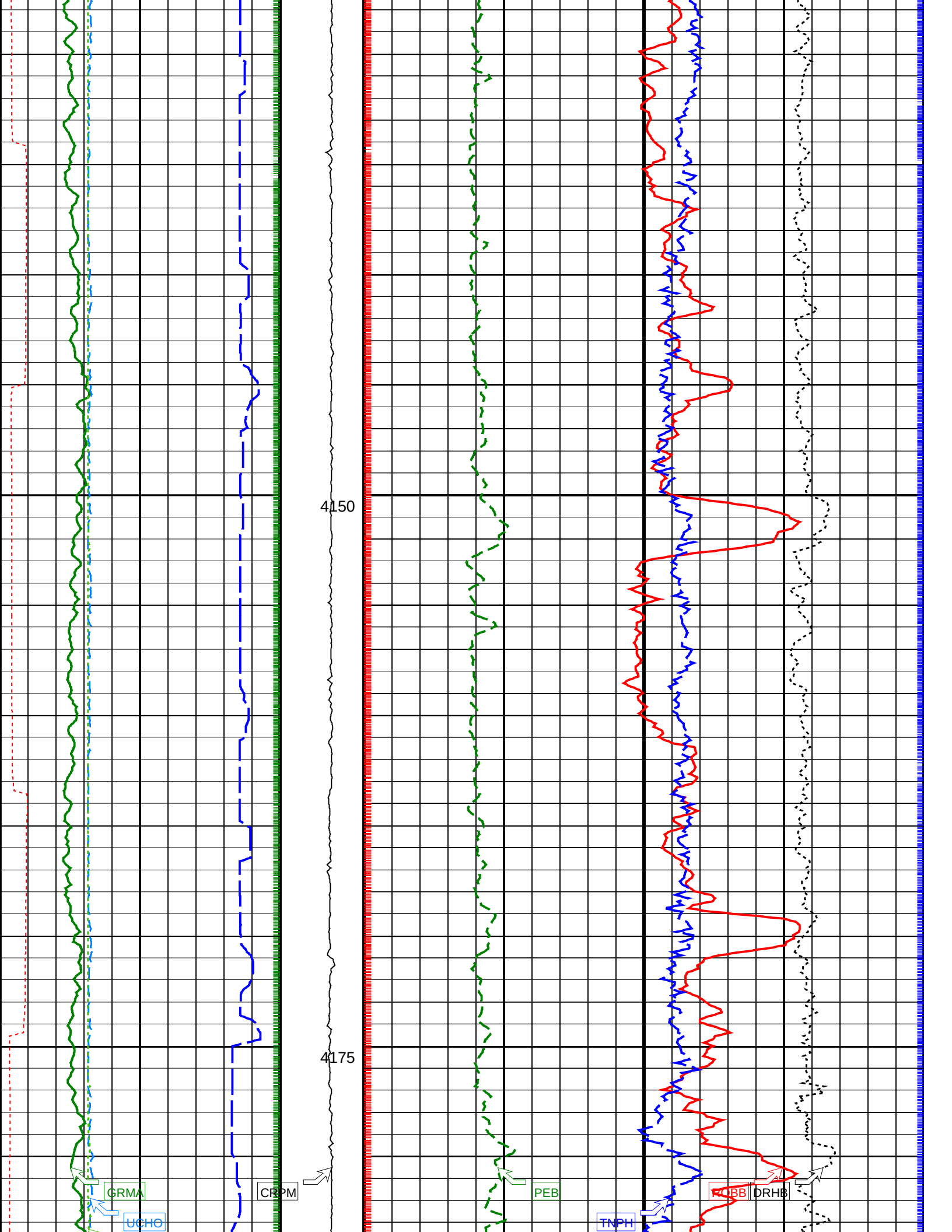
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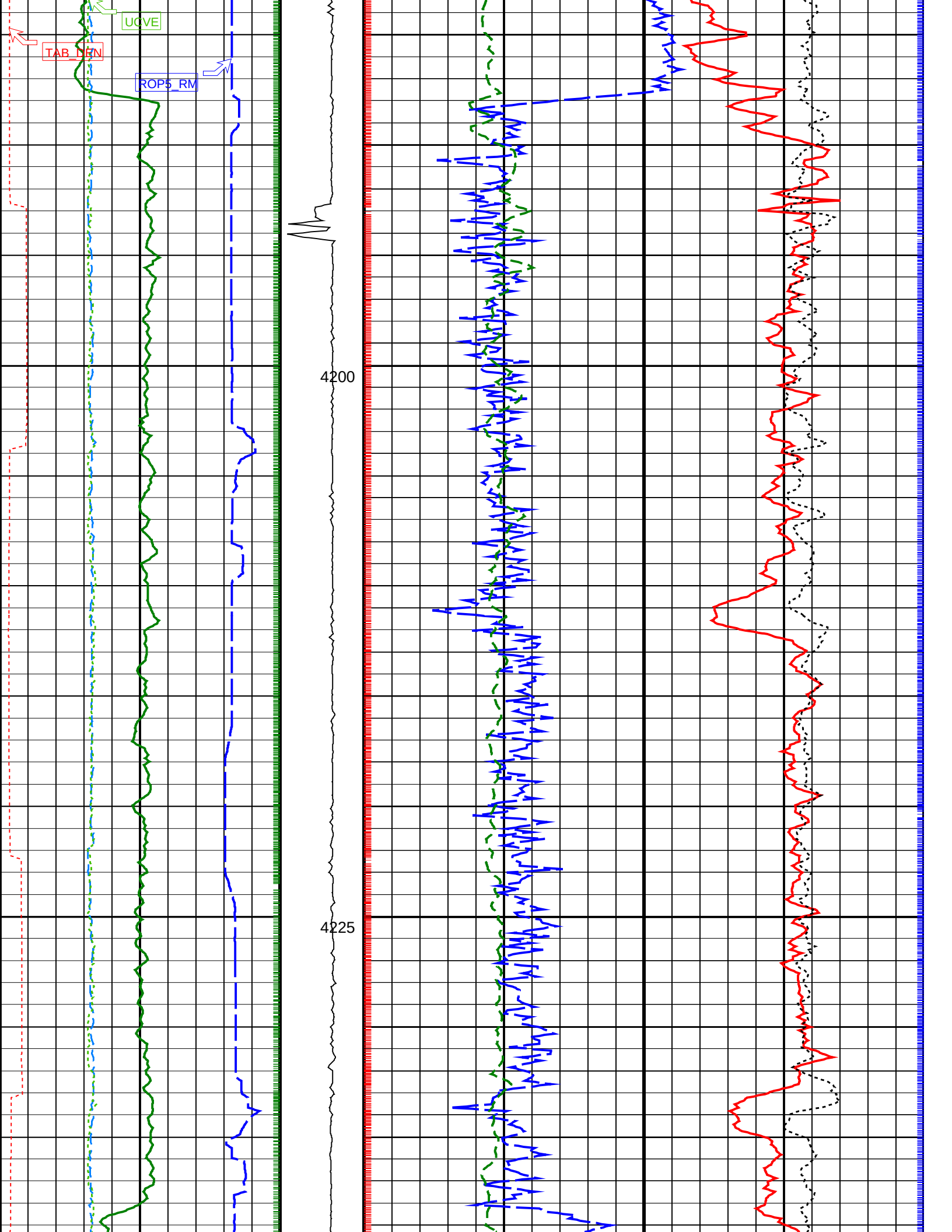
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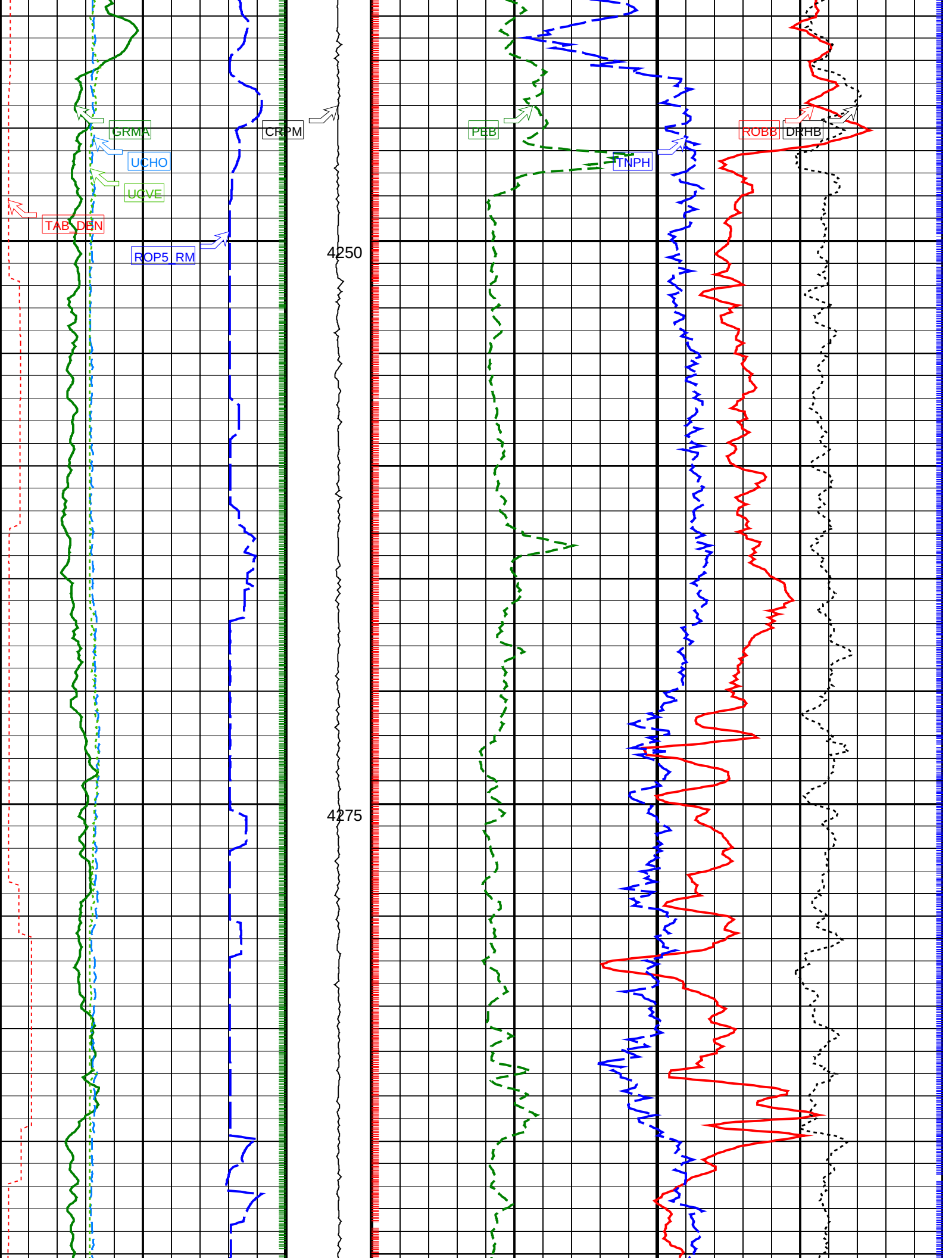
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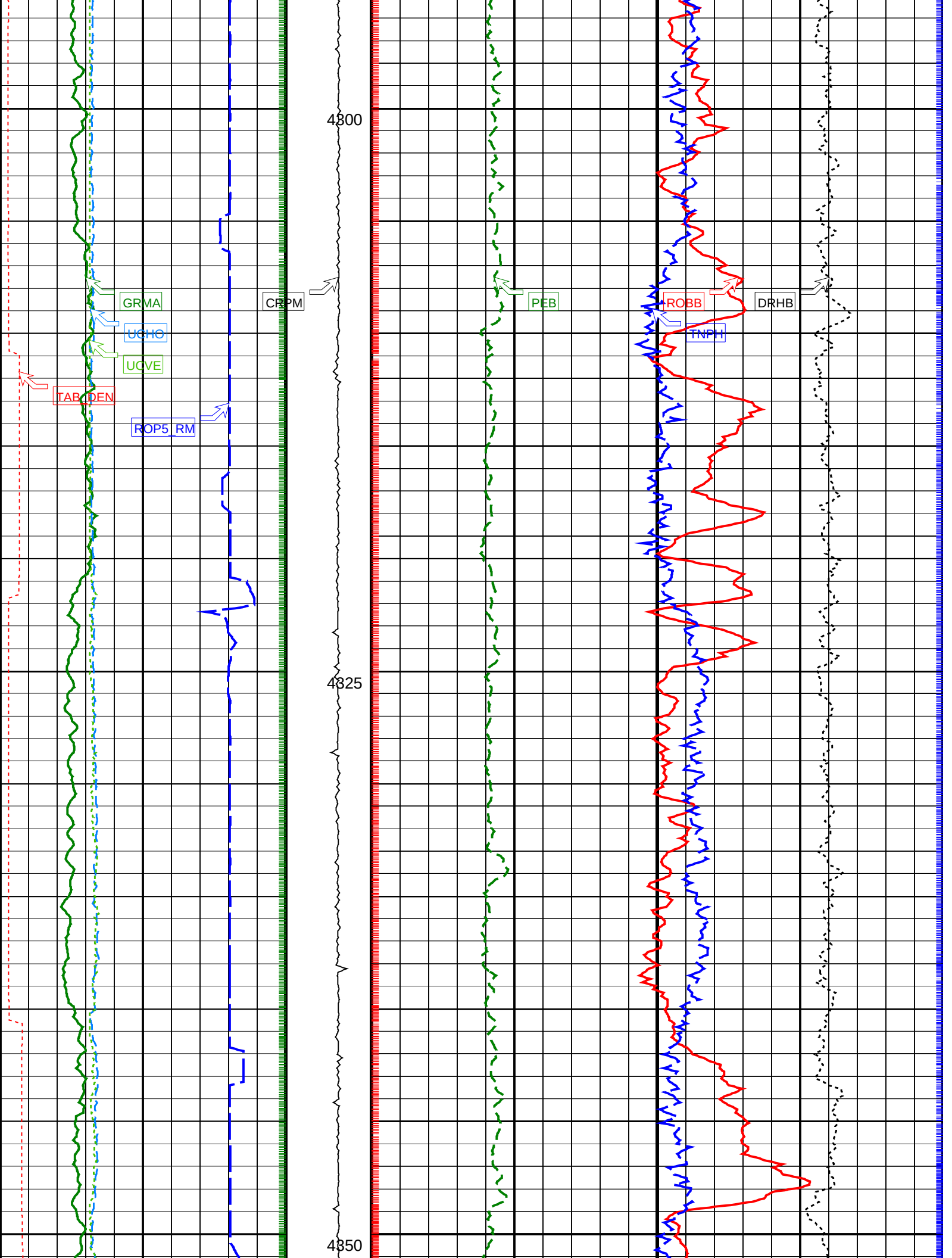
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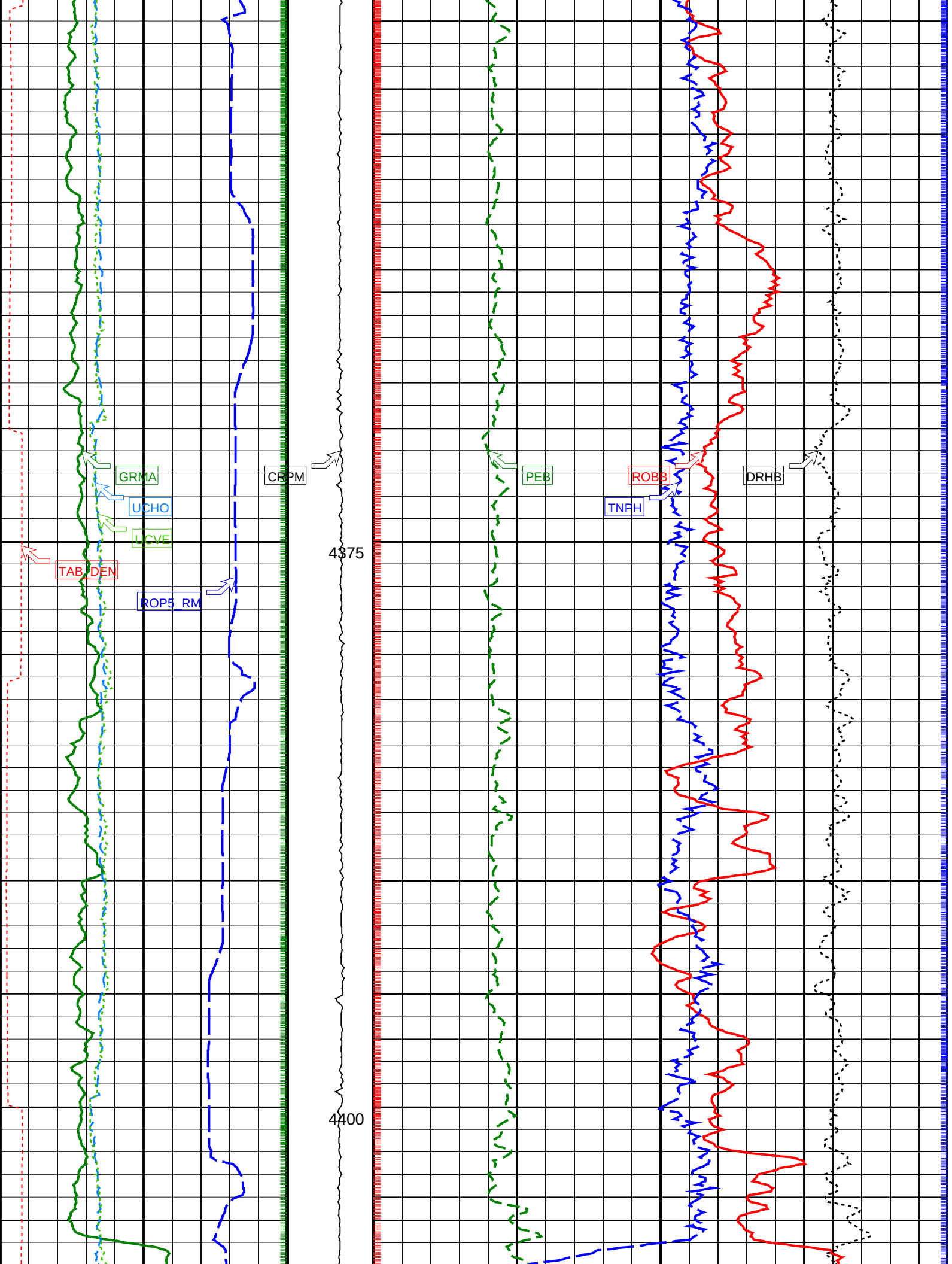
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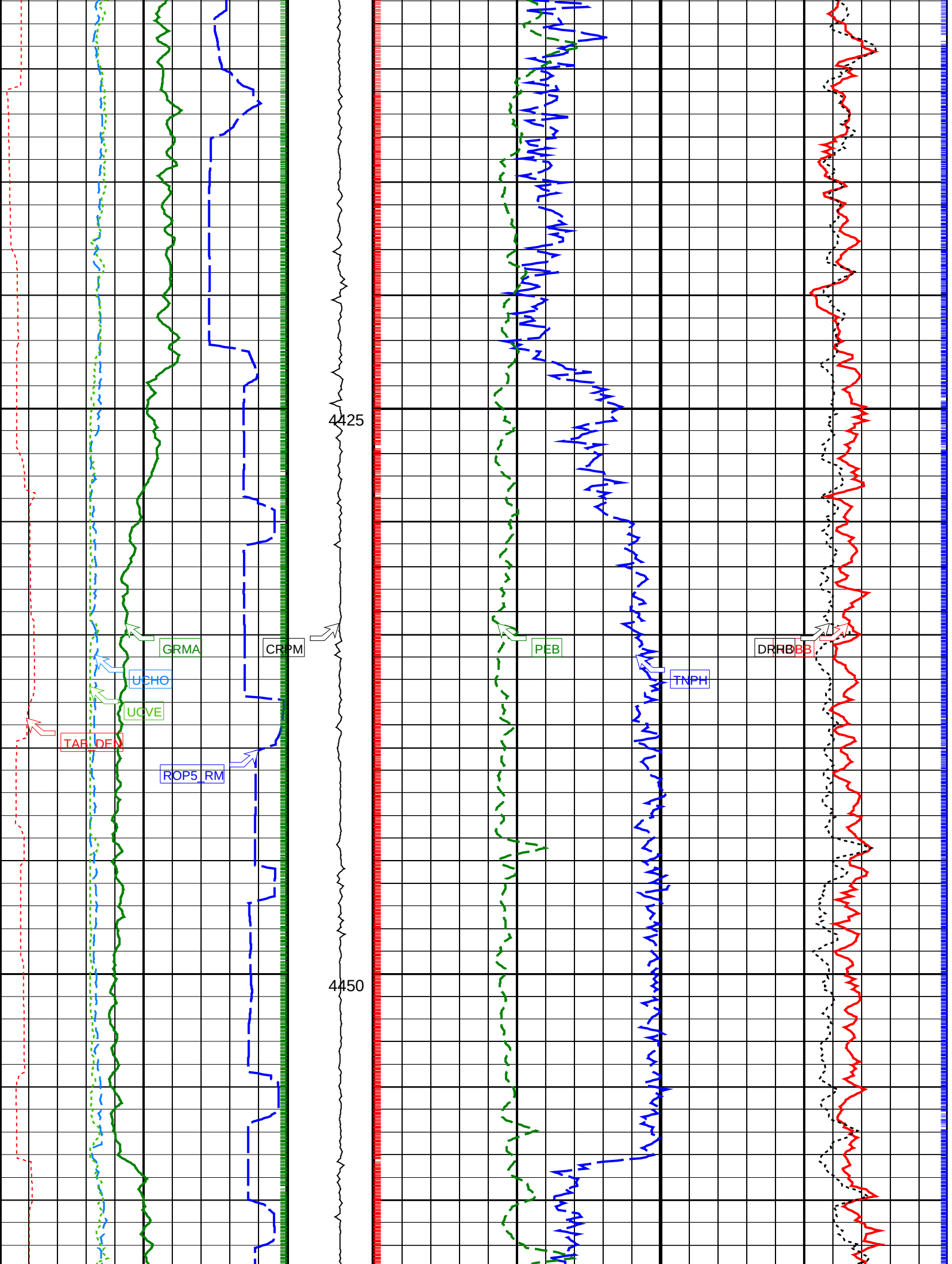
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TNPH
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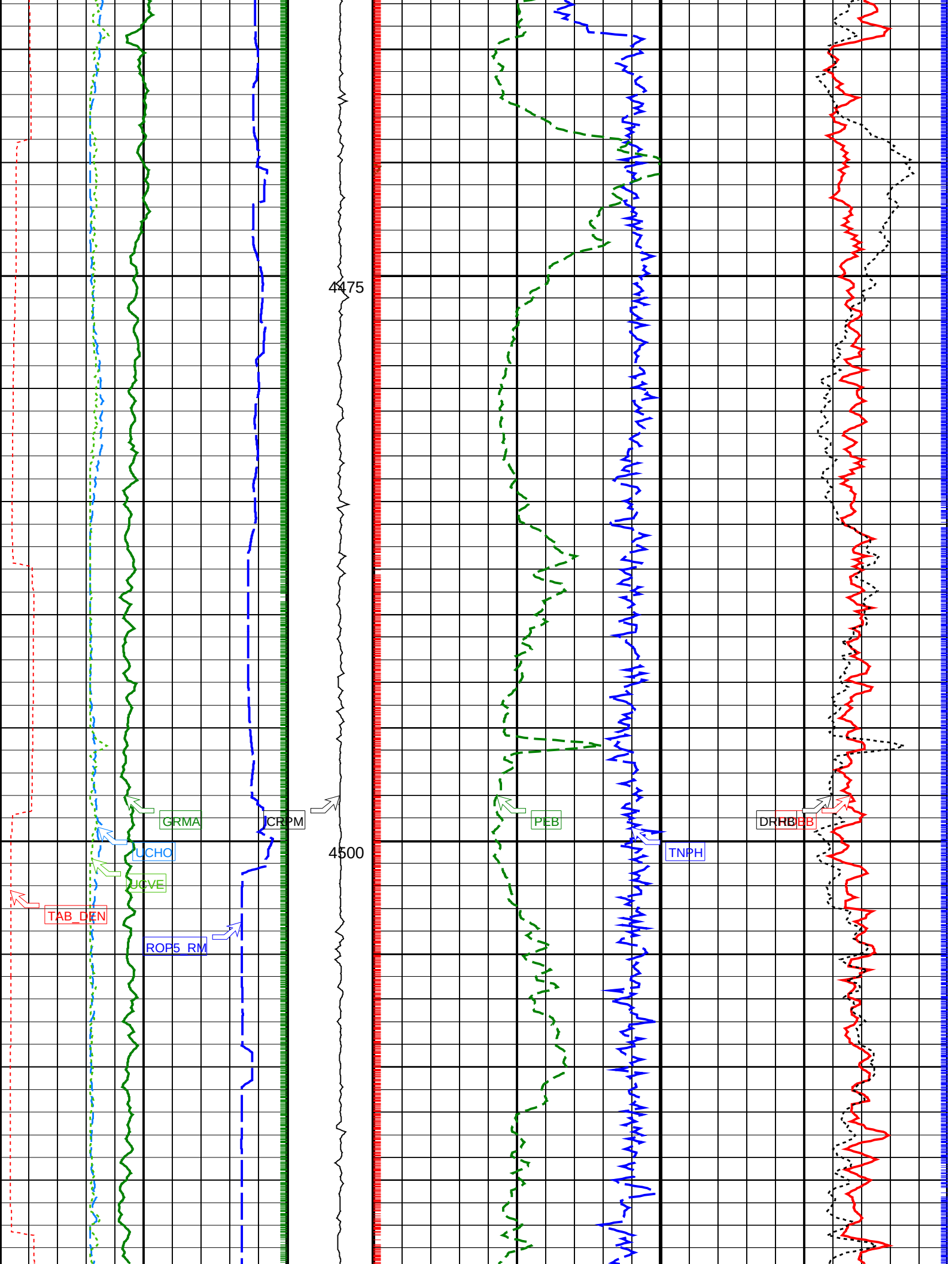
ROP5_RM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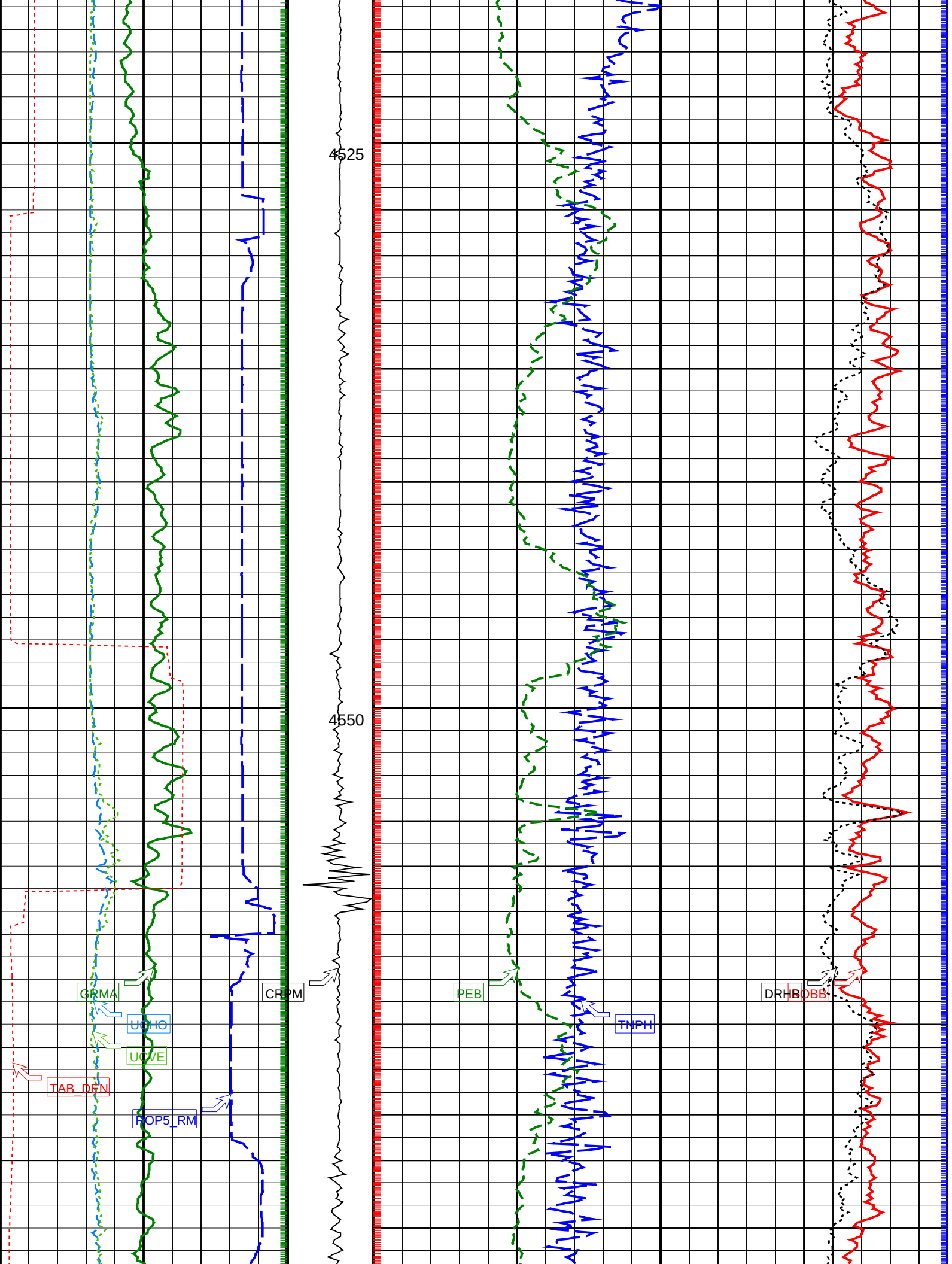
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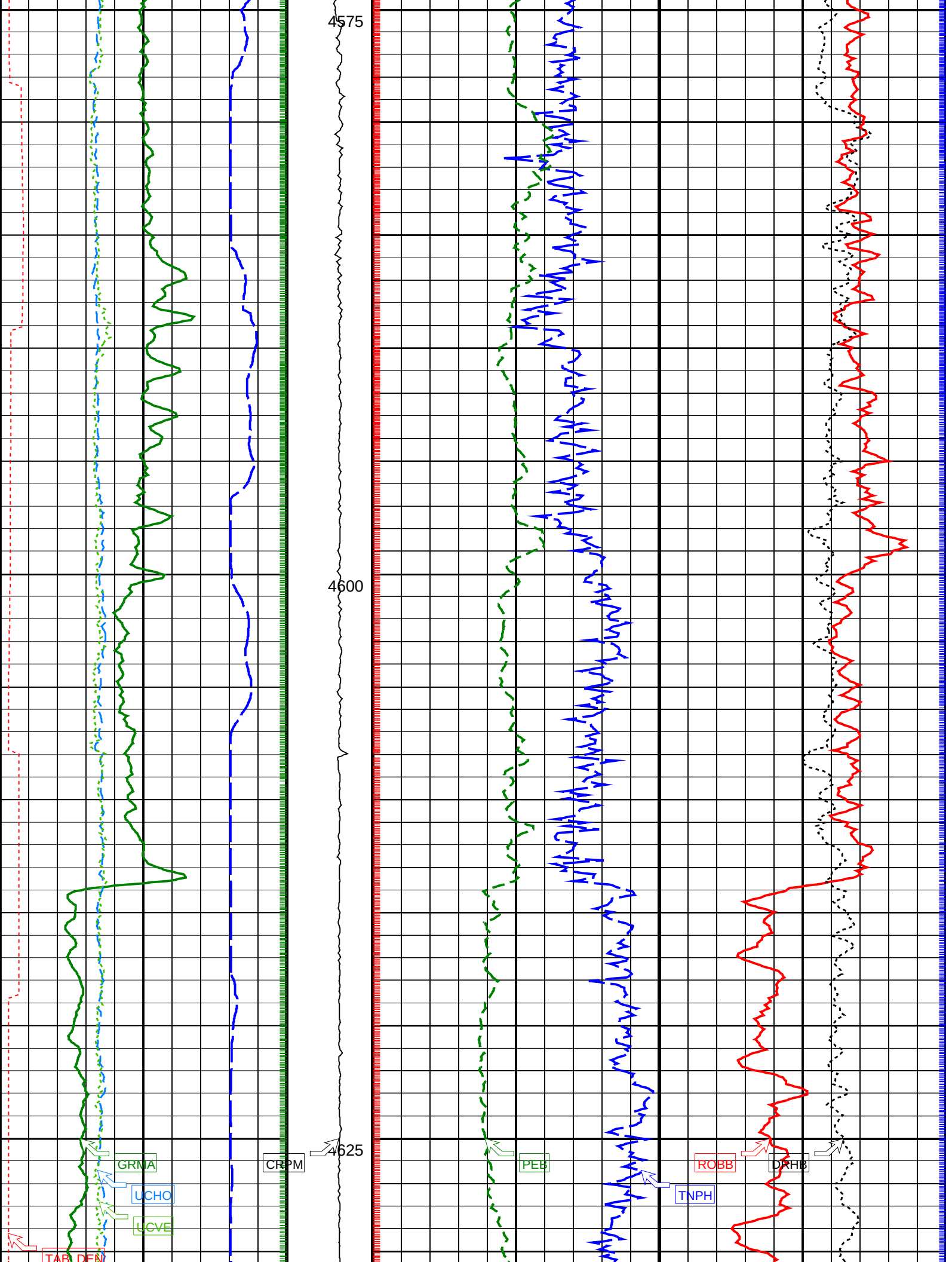
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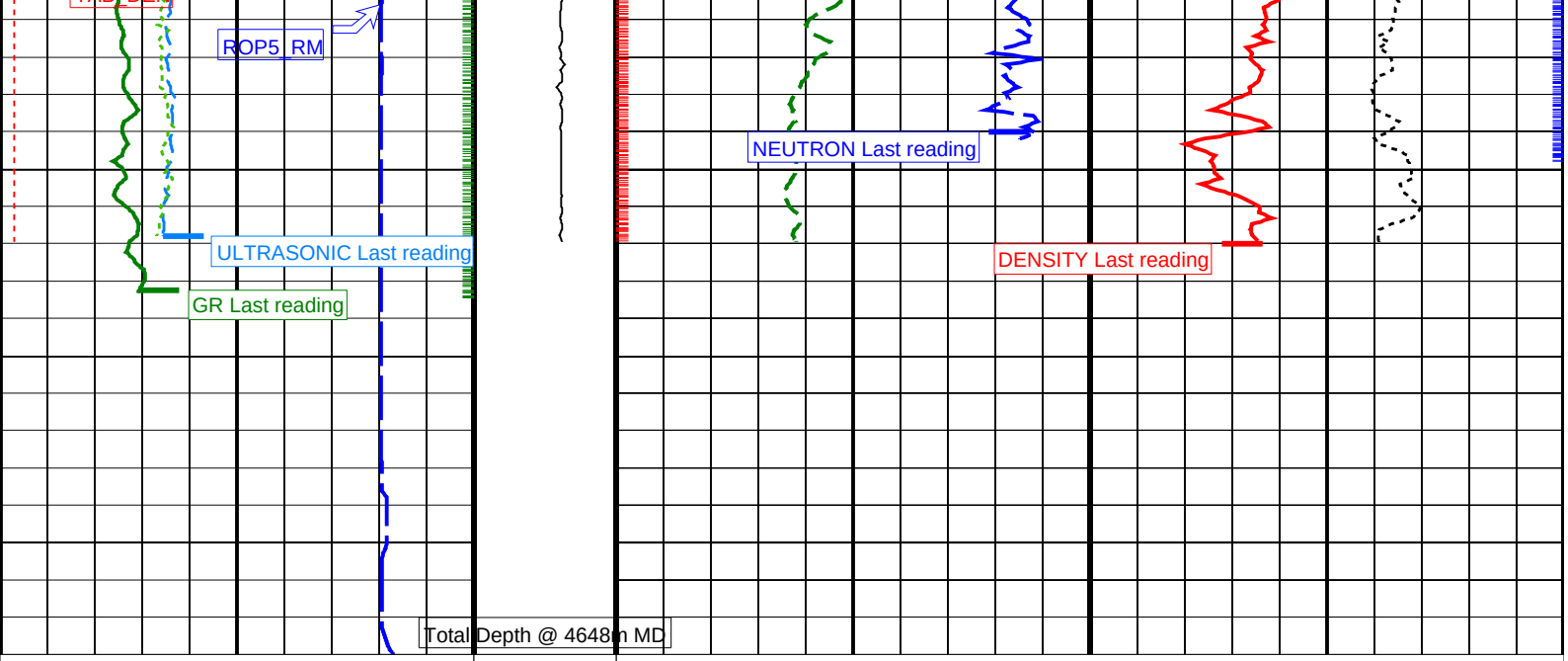

Gamma Ray, Average (GRMA)
0 (GAPI) 200

Collar Rotational Speed (CRPM) (RPM)
0 250

Bulk Density, Bottom (ROBB)
1.85 (G/C3) 2.85

Time after BIT (between drilling and measurement) (TAB_DEN)
0 (HR) 10

Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH)
45 (PU) −15

Ultrasonic Caliper, Horizontal Diameter (UCHO)
6 (IN) 16

Photoelectric Factor, Bottom (PEB)
0 (−−−− 10

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

Ultrasonic Caliper, Vertical Diameter (UCVE)
6 (IN) 16

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

PIP SUMMARY

Density Samples

Neutron Samples

Gamma Ray 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
Master		1.000
0.6000 (Minimum)	1.000 (Nominal)	1.400 (Maximum)

Phase	LSn Offset	Value
Master		0
−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
Master		0.9685
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)

Phase	Far 2 Offset	Value
Master		2.055
−3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

Phase	Far 1 Gain	Value
Master		1.012
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)

Phase	Far 1 Offset	Value
Master		1.318
−3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

Phase	Thermal Near gain	Value
Master		1.040
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)

Phase	Thermal Near offset	Value
Master		98.49
−500.0 (Minimum)	0 (Nominal)	500.0 (Maximum)

Phase	Epithermal Near gain	Value
Master		1.062
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)

Phase	Epithermal Near offset	Value
Master		100.3
−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
Master		2473
1000 (Minimum)	2000 (Nominal)	3000 (Maximum)

Phase	SS window 1 − Mg CPS	Value
Master		5868
2500 (Minimum)	5250 (Nominal)	8000 (Maximum)

Phase	SS window 3 − Mg CPS	Value
Master		12980
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
Master		445.1
200.0 (Minimum)	400.0 (Nominal)	600.0 (Maximum)

Phase	SS window 1 − Al CPS	Value
Master		3038
1500 (Minimum)	3000 (Nominal)	4500 (Maximum)

Phase	SS window 3 − Al CPS	Value
Master		9411
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
Master		67.38
50.00 (Minimum)	70.00 (Nominal)	90.00 (Maximum)

Phase	SS window 1 − Background CPS	Value
Master		80.21
50.00 (Minimum)	75.00 (Nominal)	100.0 (Maximum)

Phase	SS window 3 − Background CPS	Value
Master		382.8
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
Master		1.038
0.9000 (Minimum)	1.150 (Nominal)	1.400 (Maximum)

Phase	Short spacing water density G/C3	Value
Master		1.285
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
Master		−0.7470
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T2	Value
Master		0.6630
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T3	Value
Master		−0.7830
−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

Phase		Value
Master		0.6920
	−4.000 (Minimum) 0 (Nominal) 4.000 (Maximum)	

Phase		Value
Master		−0.7550
	−4.000 (Minimum) 0 (Nominal) 4.000 (Maximum)	

Phase		Value
Master		1.521
	−4.000 (Minimum) 0 (Nominal) 4.000 (Maximum)	

Phase	Phase−Shift T2 at 400KHz	Value
Master		−1.522
	−4.000 (Minimum) 0 (Nominal) 4.000 (Maximum)	

Phase	Phase−Shift T3 at 400KHz	Value
Master		1.515
	−4.000 (Minimum) 0 (Nominal) 4.000 (Maximum)	

Phase	Phase−Shift T4 at 400KHz	Value
Master		−1.514
	−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
Master		8.136
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	Attenuation T2	Value
Master		6.271
	4.000 (Minimum) 6.000 (Nominal) 8.000 (Maximum)	

Phase	Attenuation T3	Value
Master		4.743
	3.500 (Minimum) 5.500 (Nominal) 7.500 (Maximum)	

Phase	Attenuation T4	Value
Master		4.675
	2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)	

Phase	Attenuation T5	Value
Master		3.302
	2.000 (Minimum) 4.000 (Nominal) 6.000 (Maximum)	

Phase	Attenuation T1 at 400KHz	Value
Master		8.152
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	Attenuation T2 at 400KHz	Value
Master		6.273
	4.000 (Minimum) 6.000 (Nominal) 8.000 (Maximum)	

Phase	Attenuation T3 at 400KHz	Value
Master		4.751
	3.500 (Minimum) 5.500 (Nominal) 7.500 (Maximum)	

Phase	Attenuation T4 at 400KHz	Value
Master		4.675
	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
Master		1.094
	0.6000 (Minimum) 1.000 (Nominal) 1.400 (Maximum)	

Phase	SSn Offset	Value
Master		0
	−3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)	

Phase	LSn Gain	Value
Master		1.073
	0.6000 (Minimum) 1.000 (Nominal) 1.400 (Maximum)	

Phase	LSn Offset	Value
Master		0
	−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
Master		0.9877
	0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum)	

Phase	Far 2 Offset	Value
Master		2.073
	−3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)	

Phase	Far 1 Gain	Value
Master		0.9962
	0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum)	

Phase	Far 1 Offset	Value
Master		2.225
	−3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)	

Phase	Thermal Near gain ----	Value
Master		1.031
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)

Phase	Thermal Near offset ----	Value
Master		204.4
−500.0 (Minimum)	0 (Nominal)	500.0 (Maximum)

Phase	Epithermal Near gain ----	Value
Master		1.062
0.7000 (Minimum)	1.000 (Nominal)	1.300 (Maximum)

Phase	Epithermal Near offset ----	Value
Master		134.3
−300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)

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EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Gamma Density: Magnesium Block

Phase	LS window 3 − Mg CPS	Value
Master		2322
1000 (Minimum)	2000 (Nominal)	3000 (Maximum)

Phase	SS window 1 − Mg CPS	Value
Master		5729
2500 (Minimum)	5250 (Nominal)	8000 (Maximum)

Phase	SS window 3 − Mg CPS	Value
Master		12870
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
Master		432.2
200.0 (Minimum)	400.0 (Nominal)	600.0 (Maximum)

Phase	SS window 1 − Al CPS	Value
Master		3037
1500 (Minimum)	3000 (Nominal)	4500 (Maximum)

Phase	SS window 3 − Al CPS	Value
Master		9556
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
Master		61.92
50.00 (Minimum)	70.00 (Nominal)	90.00 (Maximum)

Phase	SS window 1 − Background CPS	Value
Master		83.35
50.00 (Minimum)	75.00 (Nominal)	100.0 (Maximum)

Phase	SS window 3 − Background CPS	Value
Master		398.4
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
Master		1.029
0.9000 (Minimum)	1.150 (Nominal)	1.400 (Maximum)

Phase	Short spacing water density G/C3	Value
Master		1.286
0.9000 (Minimum)	1.150 (Nominal)	1.400 (Maximum)

Master: 3−Aug−2008 13:35

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Resistivity: Air

Phase	Phase−Shift T1	Value
Master		0.7927
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T2	Value
Master		−0.8818
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T3	Value
Master		0.7569
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T4	Value
Master		−0.8984
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T5	Value
Master		0.7688
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T1 at 400KHz	Value
Master		0.9056
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T2 at 400KHz	Value
Master		−0.9300
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T3 at 400KHz	Value
Master		0.9110
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T4 at 400KHz	Value
Master		−0.9467
−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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EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Resistivity: Air

Phase	Attenuation T1	Value

Phase	Attenuation T2	Value

Phase	Attenuation T3	Value

Phase	Attenuation T4	Value
Master		8.376
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	Attenuation T5	Value
Master		6.057
	4.000 (Minimum) 6.000 (Nominal) 8.000 (Maximum)	

Phase	Attenuation T1 at 400KHz	Value
Master		4.976
	3.500 (Minimum) 5.500 (Nominal) 7.500 (Maximum)	

Phase	Attenuation T4	Value
Master		4.460
	2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)	

Phase	Attenuation T5	Value
Master		3.534
	2.000 (Minimum) 4.000 (Nominal) 6.000 (Maximum)	

Phase	Attenuation T1 at 400KHz	Value
Master		8.316
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	Attenuation T2 at 400KHz	Value
Master		6.129
	4.000 (Minimum) 6.000 (Nominal) 8.000 (Maximum)	

Phase	Attenuation T3 at 400KHz	Value
Master		4.914
	3.500 (Minimum) 5.500 (Nominal) 7.500 (Maximum)	

Phase	Attenuation T4 at 400KHz	Value
Master		4.521
	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.....: BGGM version 2007
Magnetic date.....: 29-Jun-2008
Magnetic field strength..: 1195.93 HCNT
Magnetic dec (+E/W-).....: 13.10 degrees
Magnetic dip.....: -68.59 degrees

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

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

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SCHLUMBERGER Survey Report 10-Aug-2008 05:11:28

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	7.16	192.11	29.63	871.98	3.09	-2.83	-4.29	5.14	236.55	2.15	PUP	None
20	901.94	8.22	183.91	29.69	901.40	7.05	-6.76	-4.82	8.30	215.50	1.56	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)
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

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 10-Aug-2008 05:11:28

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

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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)
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

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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)
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	

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Company: **Nexus Energy Ltd**

Schlumberger

Well: **Longtom-4 H**

Field: **Longtom**

Rig: **West Triton**

9.5 in Section

State: **Victoria**

State: Victoria

EcoScope* Density Neutron
1:200 Measured Depth
Recorded Mode Log