

Bit Run Summary										
Run number		2	3	4						
Bit size	in.	8.5	8.5	8.5						
Bit start depth	m	851.0	1570.0	1930.0						
Bit end depth	m	2108.0	1625.0	2165.0						
Top interval logged	m	848.0	1562.3	1912.6						
Bottom interval logged	m	2090.7	1602.6	2132.9						
Begin log: time		11:40	20:15	21:47						
Begin log: date		01-Mar-05	04-Mar-05	05-Mar-05						
End log: time		02:30	22:30	07:54						
End log: date		04-Mar-05	04-Mar-05	07-Mar-05						
Mud data										
Depth	m	2084	2084	2165						

Type		KCL/PHPA/Glycol	KCL/PHPA/Glycol	KCL/PHPA/Glycol						
Mud weight	ppg	10.0	10.0	10.0						
Solids	%	7.1	7.1	8.1						
Chlorides	mg/L	31000	31000	31000						
Rm	ohm.m@°C	0.14@24.1	0.14@24.1	0.12@24.0						
Rmf	ohm.m@°C	0.12@23.5	0.12@23.5	0.13@24.9						
Rmc	ohm.m@°C	0.23@24.5	0.23@24.5	0.14@24.6						
Potassium	%	6.0	6.0	6.0						
Environmental data										
GR										
Mud weight	ppg	10.0	10.0	10.0						
Bit size	in.	8.5	8.5	8.5						
Resistivity										
Neutron porosity										
Hole Size	in.	8.5	8.5	8.5						
Mud weight	ppg	10.0	10.0	10.0						
Temperature	°C	70.6	70.6	69.0						
Mud salinity	ppm	45746	45746	47390						
Formation salinity										
Recording rate 1	SEC	10 sec.	10 sec.	10 sec.						
Recording rate 2	SEC	10 sec.	10 sec.	10 sec.						
Filtering GR		3 pt.	3 pt.	3 pt.						
Filtering density		3 pt.	3 pt.	3 pt.						
Filtering Neutron		3 pt.	3 pt.	3 pt.						
Company representative		B. Steel	M. Jackson	A. Bassett						
Anadrill personnel		K. Handley	M. Y. Tan	R. Burns	K. Wilson	D. Hay				

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.

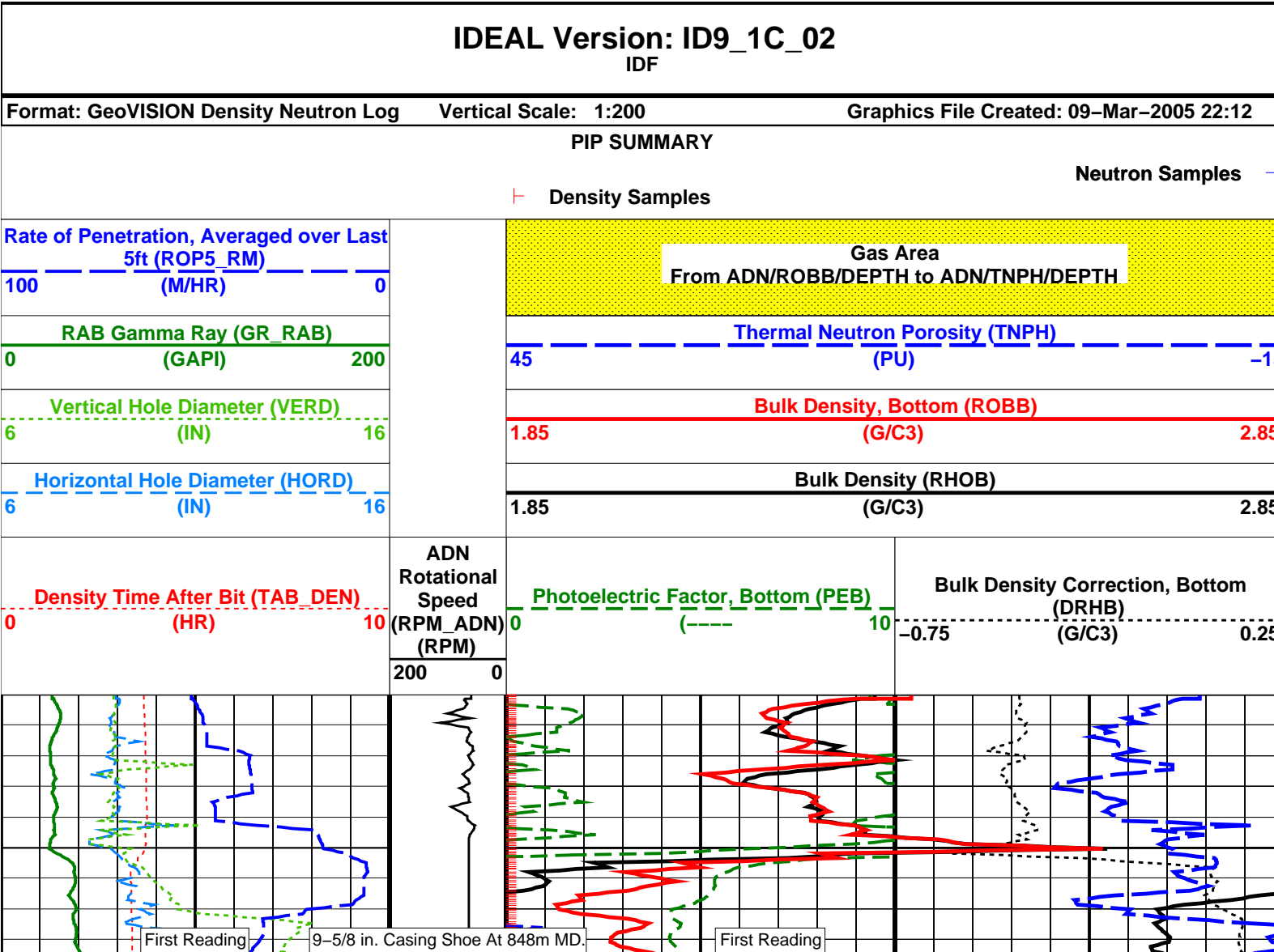
OTHER SERVICES FOR RUN2 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN3 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN4 Directional Drilling D&I Survey
REMARKS: RUN NUMBER 2 8-1/2 in. hole section was drilled from 851.0 m to 2108.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for mud weight, tool and bit size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index. Ultrasonic Caliper not available during sliding intervals.	REMARKS: RUN NUMBER 3 8-1/2 in. hole section was reamed from 1570.0 m to 1625.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for mud weight, tool and bit size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index. PEF readings were affected by the presence of Barite in the mud system.	REMARKS: RUN NUMBER 4 8-1/2 in. hole section was drilled from 1930.0 m to 2165.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for mud weight, tool and bit size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index. Ultrasonic Caliper not available during sliding intervals.

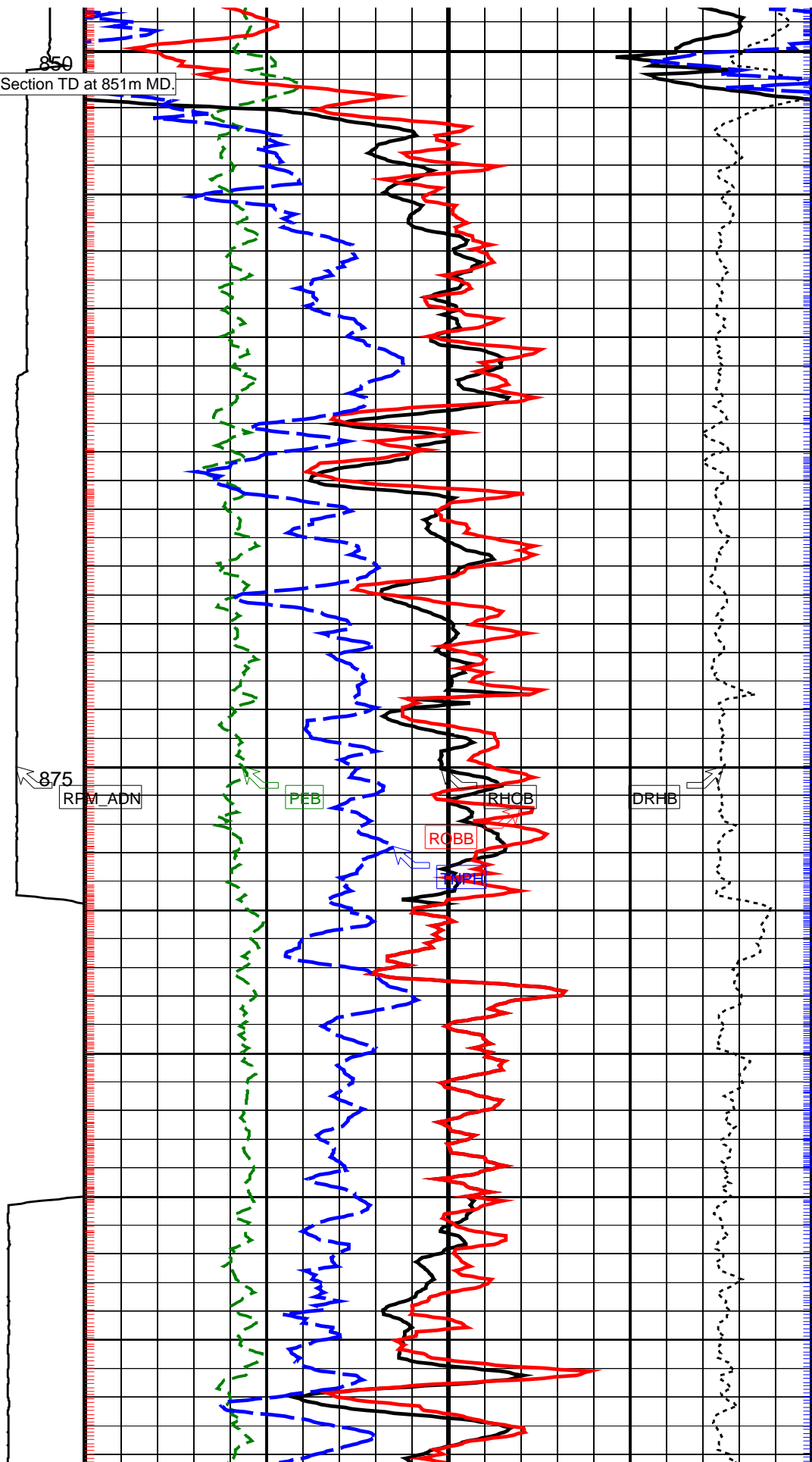
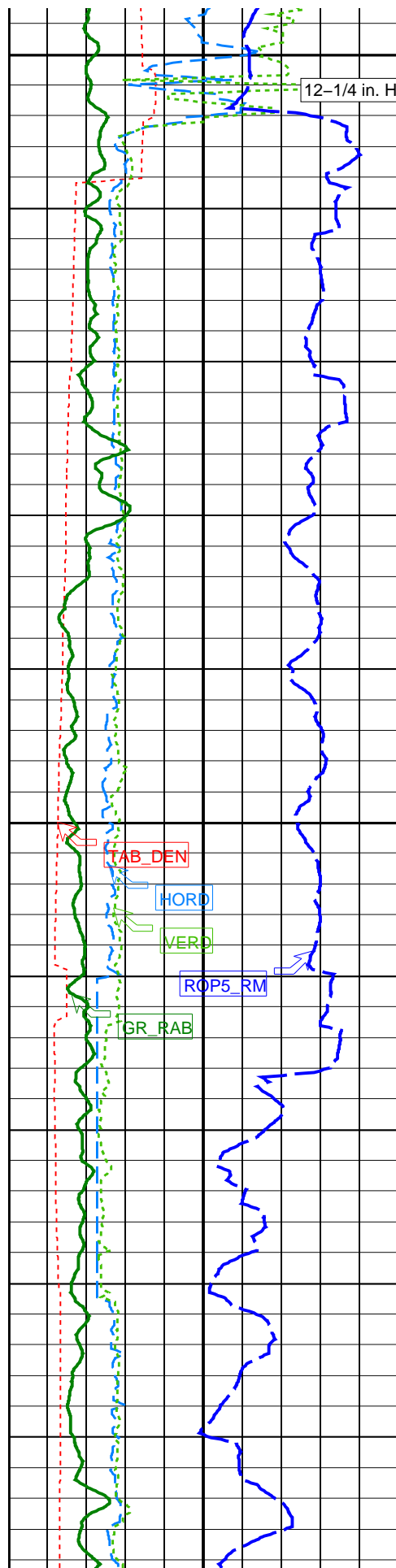
sliding intervals.	Barite in the mud system.	sliding intervals.
PEF readings were affected by the presence of Barite in the mud system.	POOH to change BHA.	PEF readings were affected by the presence of Barite in the mud system.
Data density compromised at high ROP.		Data density compromised at high ROP.
POOH due to drill plug.		POOH due to penetration rate.

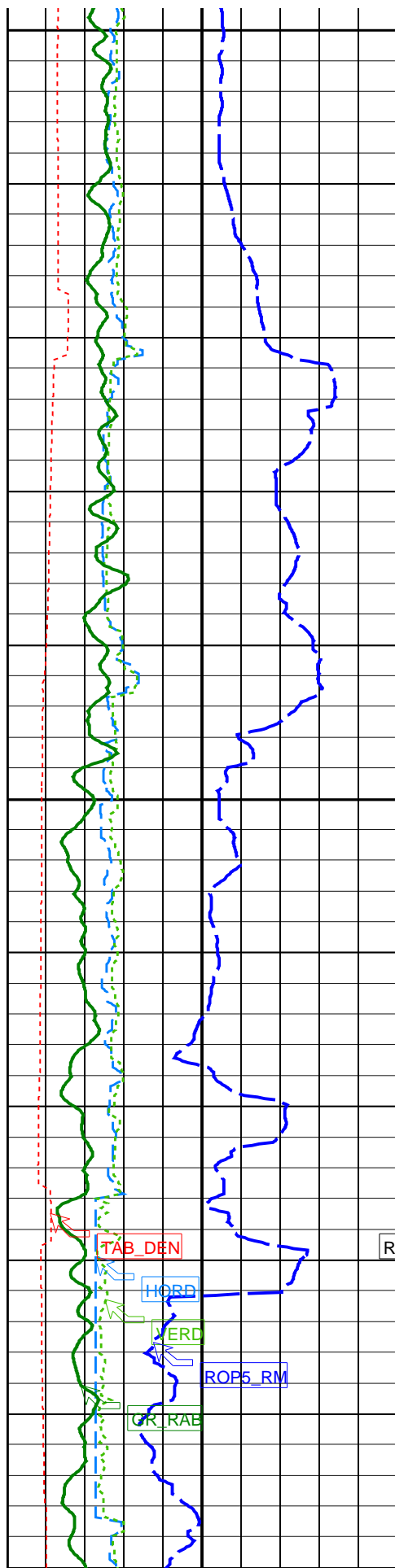
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RUN2			RUN3		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
6-3/4 in. ADN*6C	Neutron F	32.06	6-3/4 in. ADN*6C		24.34
S/N: FE55	Neutron N	31.91	S/N: FE55	Neutron F	22.38
8-1/4 in. IBS	Density S	31.04	8-1/4 in. IBS	Neutron N	22.23
NSR-M A202	Density L	30.94	NSR-M A202	Density S	21.36
GSR-J A1994	UltraSonic	30.56	GSR-J A1994	Density L	21.26
Software: V8.3A02	R-O Port	29.80	Software: V8.3A02	UltraSonic	20.88
				R-O Port	20.12
6-3/4 in. PowerPulse*		27.78			
MDC Z408			6-3/4 in. PowerPulse*		18.10
MEC 612			MDC Z408		
MDI 626			MEC 612		
Software: V7.0C00			MDI 626		
			Software: V7.0C00		
	D&I	23.61			
	Shallow	18.17		D&I	13.93
	Medium	18.05			
	Deep	17.87			
6-3/4 in. GVR*6	Ring Res	17.70			
S/N: 191	R-O Port	17.56	6-3/4 in. GVR*6		9.78
8-1/4 in. Stabilizer	GR	17.34	S/N: 191	Shallow	8.49
Software: V6.2B01			8-1/4 in. Stabilizer	Medium	8.37
			Software: V6.2B01	Deep	8.19
				Ring Res	8.02
				R-O Port	7.88
				GR	7.66
7 in. Cross Over Sub		16.38			
S/N: SBD2075					
6-7/16 in. NM Pony Collar		15.81			
S/N: 6649			6-3/4 in. GVR*6		6.70
			S/N: 191		
			8-1/4 in. Stabilizer		
			Software: V6.2B01		
6-3/4 in. NM Pony Collar		12.23			
S/N: SBD 1651					

EQUIPMENT DESCRIPTION					
RUN2			RUN3		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
6-3/4 in. ADN*6C	Neutron F	32.06	6-3/4 in. ADN*6C	Neutron F	32.10
S/N: FE55	Neutron N	31.91	S/N: FE55	Neutron N	31.95
8-1/4 in. IBS	Density S	31.04	8-1/4 in. IBS	Density S	31.08
NSR-M A202	Density L	30.94	NSR-M A202	Density L	30.98
GSR-J A1994	UltraSonic	30.56	GSR-J A1994	Ultrasonic	30.60
Software: V8.3A02	R-O Port	29.80	Software: V8.3A02	R-O Port	29.84
6-3/4 in. PowerPulse*		27.78	6-3/4 in. PowerPulse*		27.82
MDC Z408			MDC Z408		
MEC 612			MEC 612		
MDI 626			MDI 626		
Software: V7.0C00			Software: V7.0C00		
	D&I	23.61		D&I	23.65
	Shallow	18.17		Shallow	18.21
	Medium	18.05		Medium	18.09
	Deep	17.87		Deep	17.91
6-3/4 in. GVR*6	Ring Res	17.70	6-3/4 in. GVR*6	Ring Res	17.74
S/N: 191	R-O Port	17.56	S/N: 191	R-O Port	17.60
8-1/4 in. Stabilizer	GR	17.34	8-1/4 in. Stabilizer	GR	17.38
Software: V6.2B01			Software: V6.2B01		
7 in. Cross Over Sub		16.38	7 in. Cross Over Sub		16.42
S/N: SBD2075			S/N: SBD2075		
6-7/16 in. NM Pony Collar		15.81	6-3/4 in. NM Pony Collar		15.85
S/N: 6649			S/N: SBD1651		
6-3/4 in. NM Pony Collar		12.23	6-7/16 in. NM Pony Collar		12.80
S/N: SBD 1651			S/N: 6649		

<p>PowerPak* Mud Motor A700GT S/N: 7062 1.15 deg Bend 8-3/8 in. Motor Sleeve</p> <p>Reed Hycalog PDC Bit RSX272 S/N: 110936 OD 8-1/2 in.</p> <p>Maximum string diameter 8.50 in. All lengths in Meters</p>	<p>6-3/4 in. NM Pony Collar S/N: SBD 1651</p> <p>8-1/4 in. Stabilizer S/N: S11773</p> <p>6-13/16 in. Bit Sub S/N: E102-25</p> <p>Reed Hycalog PDC Bit DSX210GUW S/N: 110575 OD 8-1/2 in.</p> <p>Maximum string diameter 8.50 in. All lengths in Meters</p>	<p>PowerPak* Mud Motor A700GT S/N: N7311 1.20 deg. Bend 8-3/8 in. Motor Sleeve</p> <p>Hughes Insert Bit MX20DX S/N: 6027923 OD 8-1/2 in.</p> <p>Maximum string diameter 8.50 in. All lengths in Meters</p>
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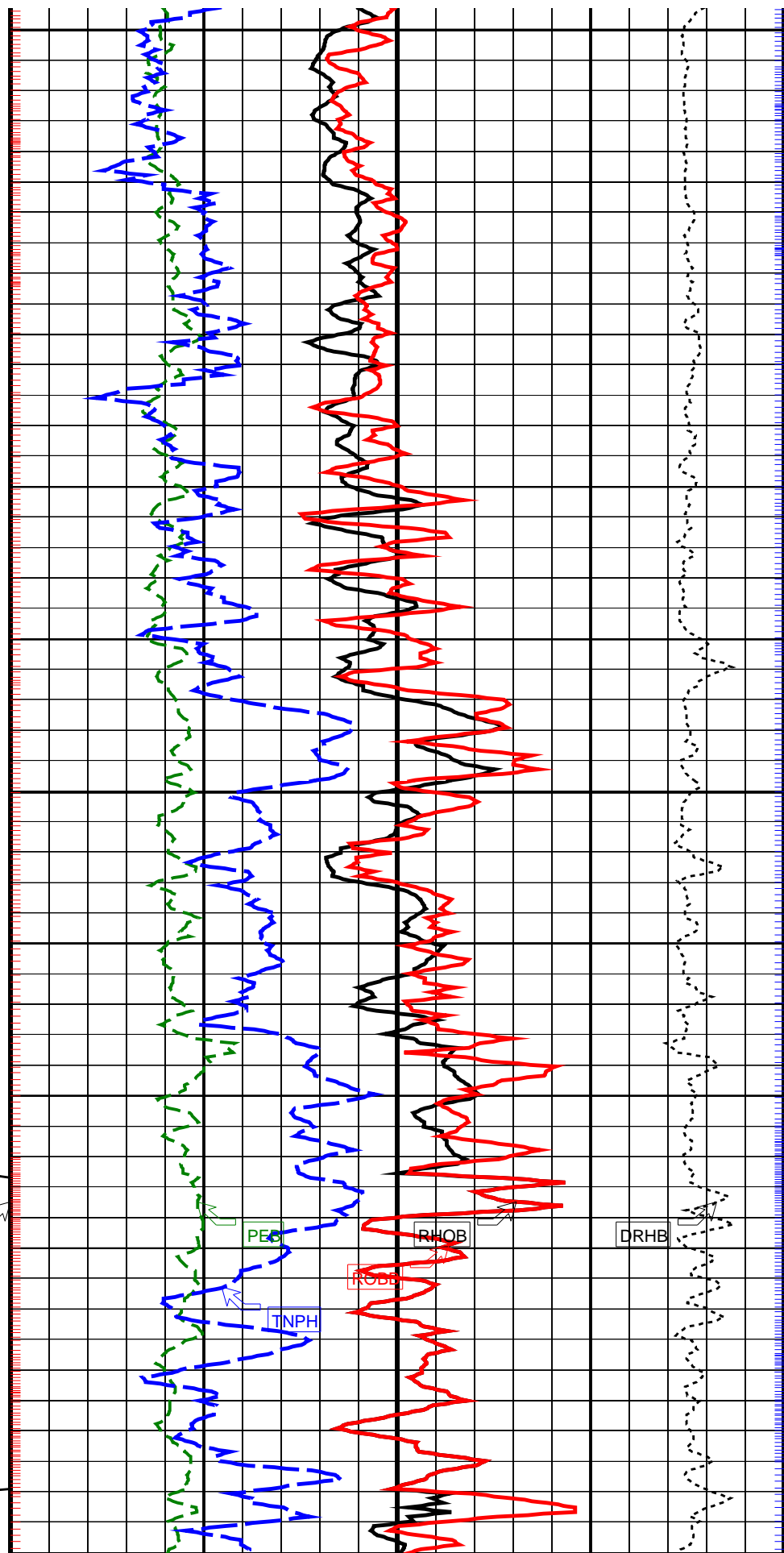


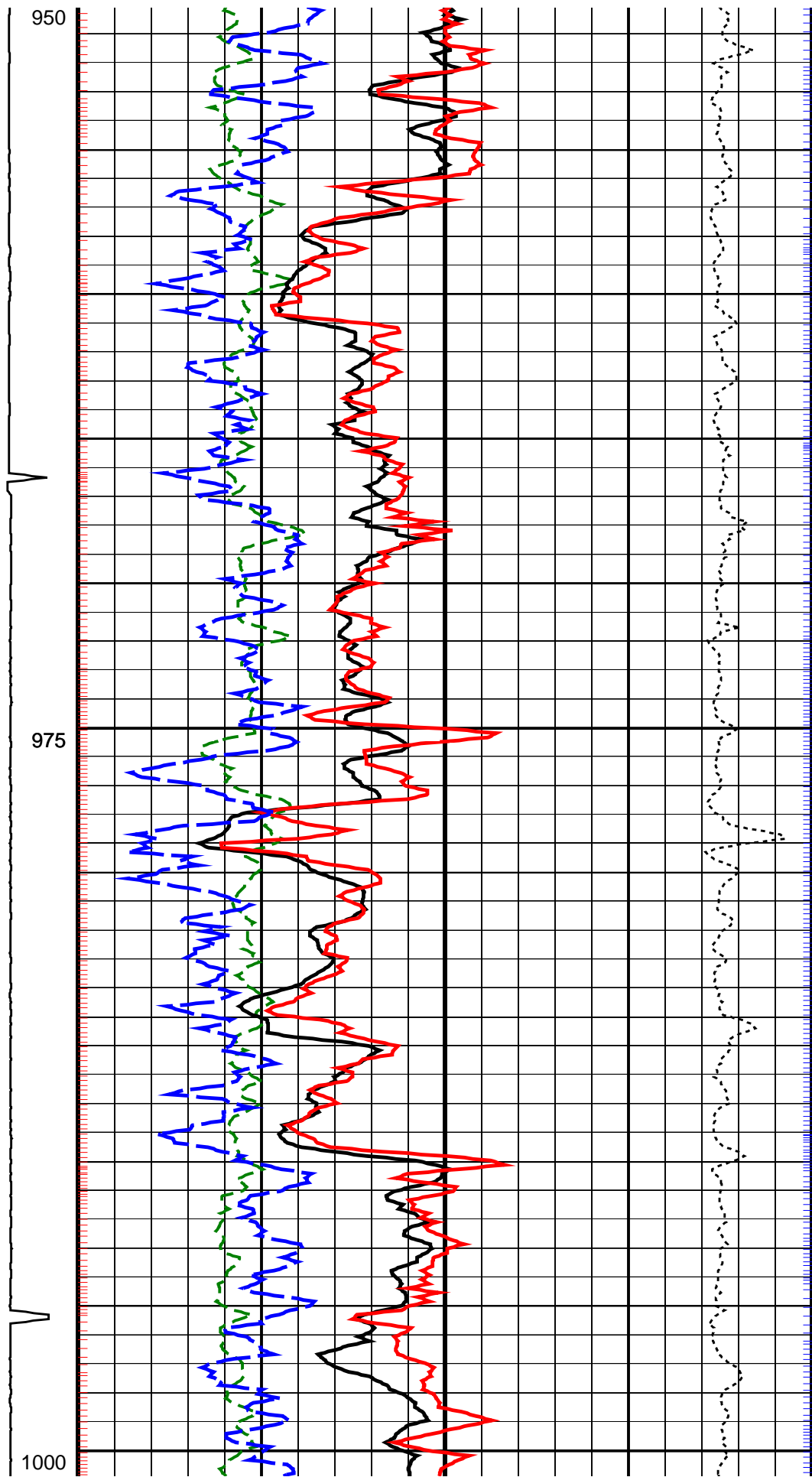
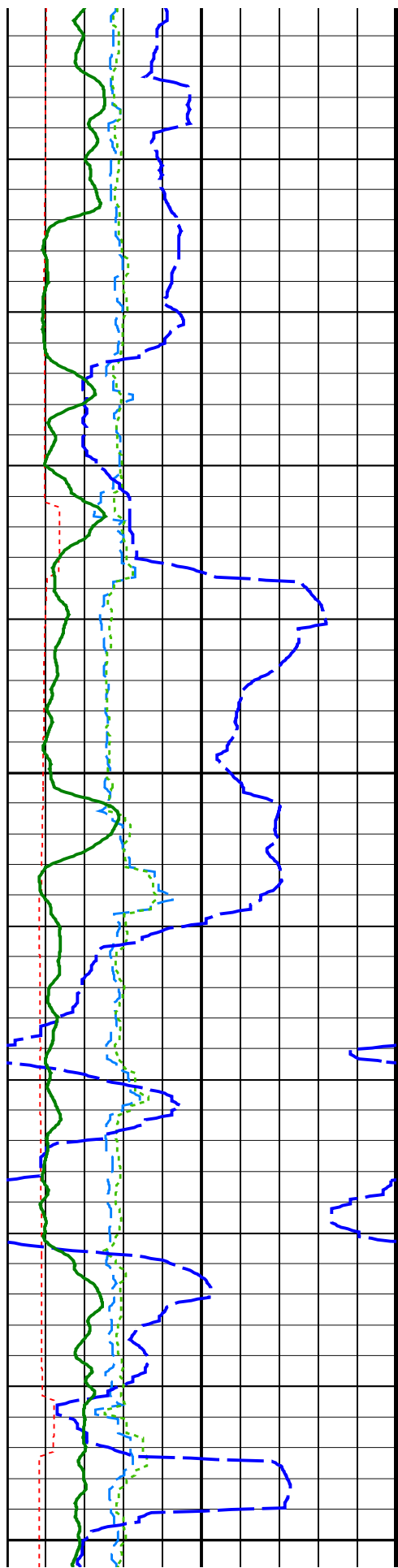


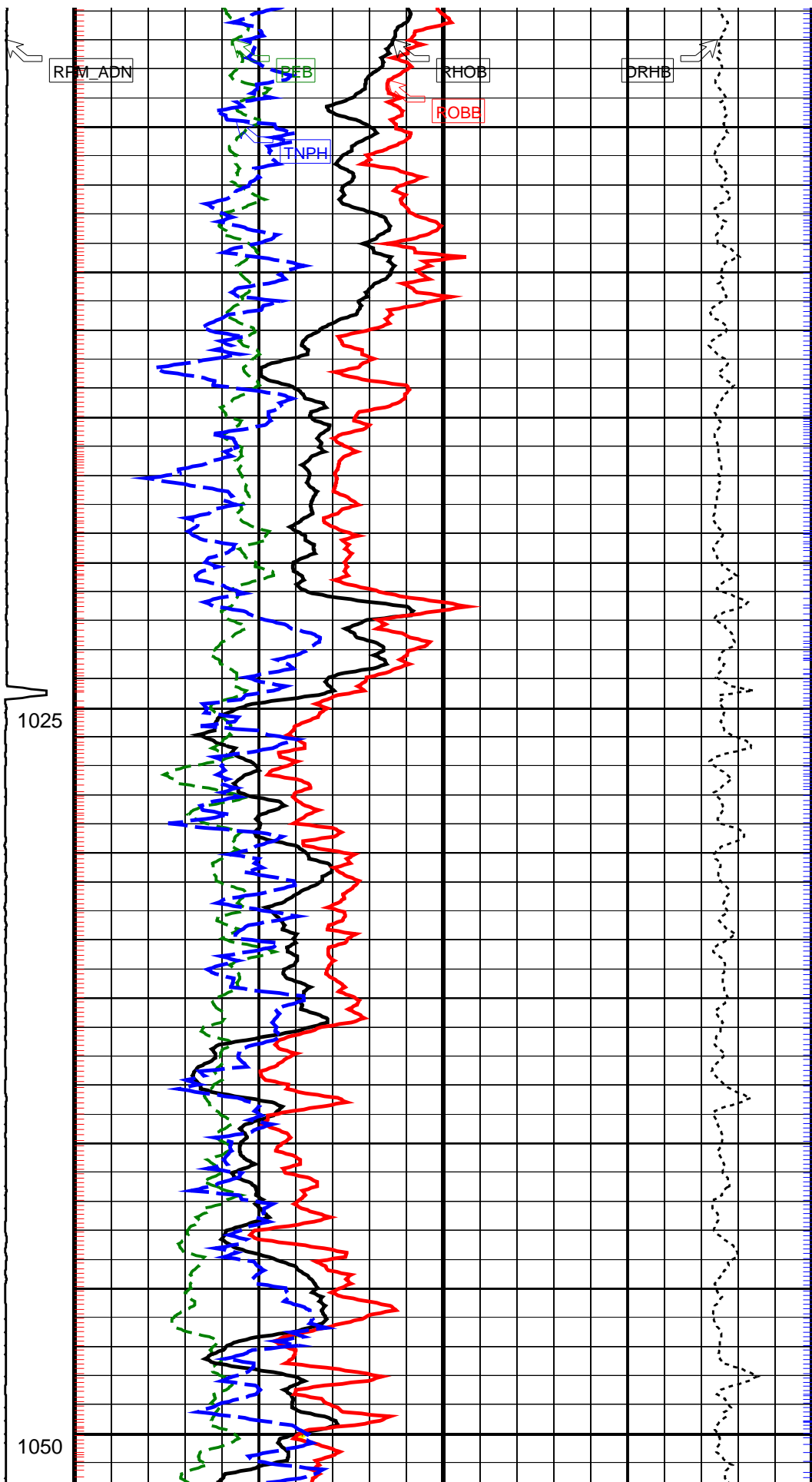
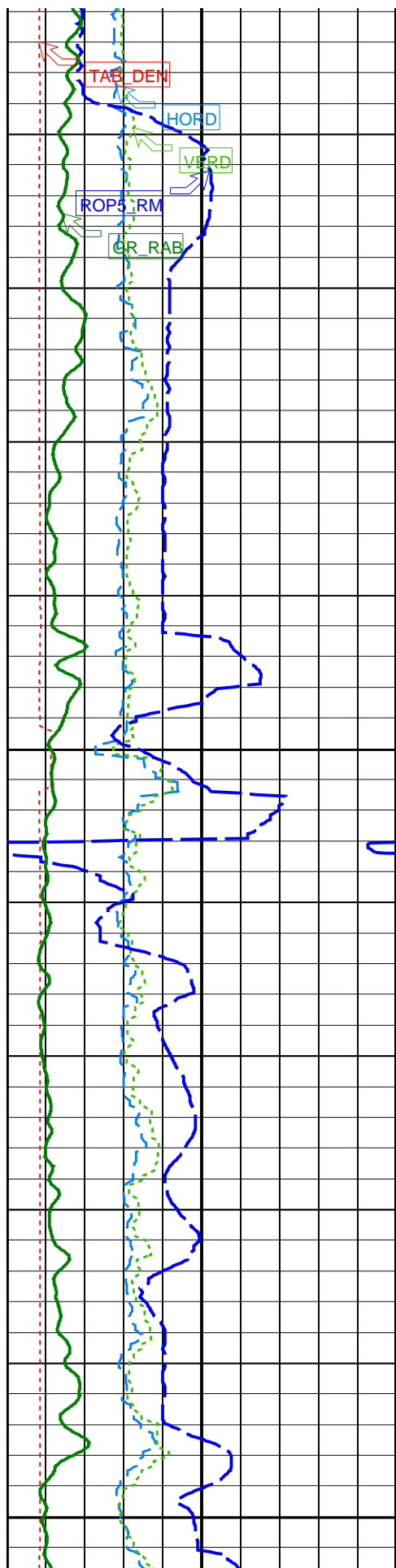
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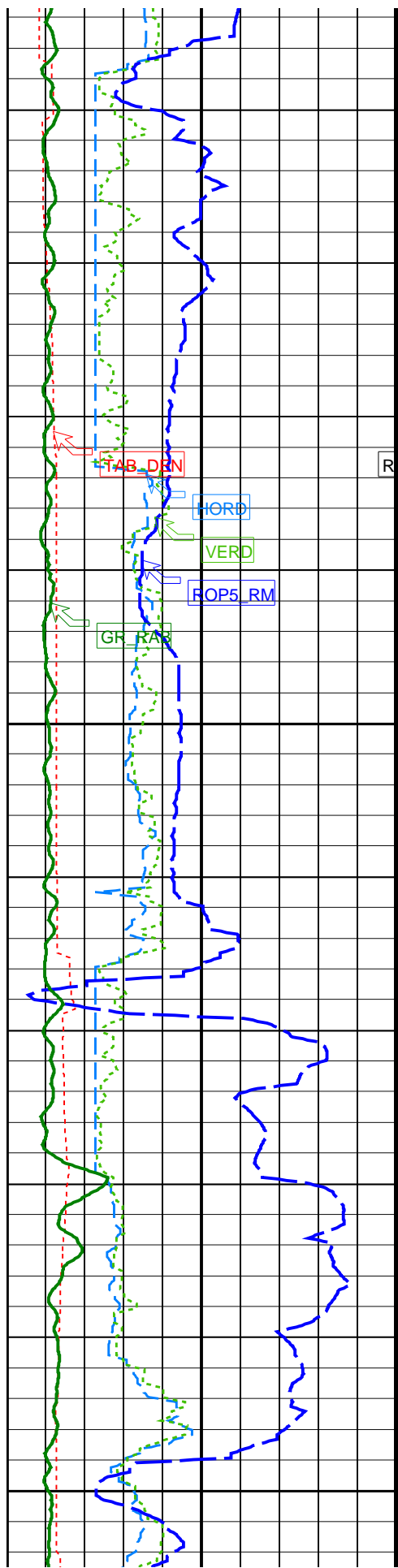
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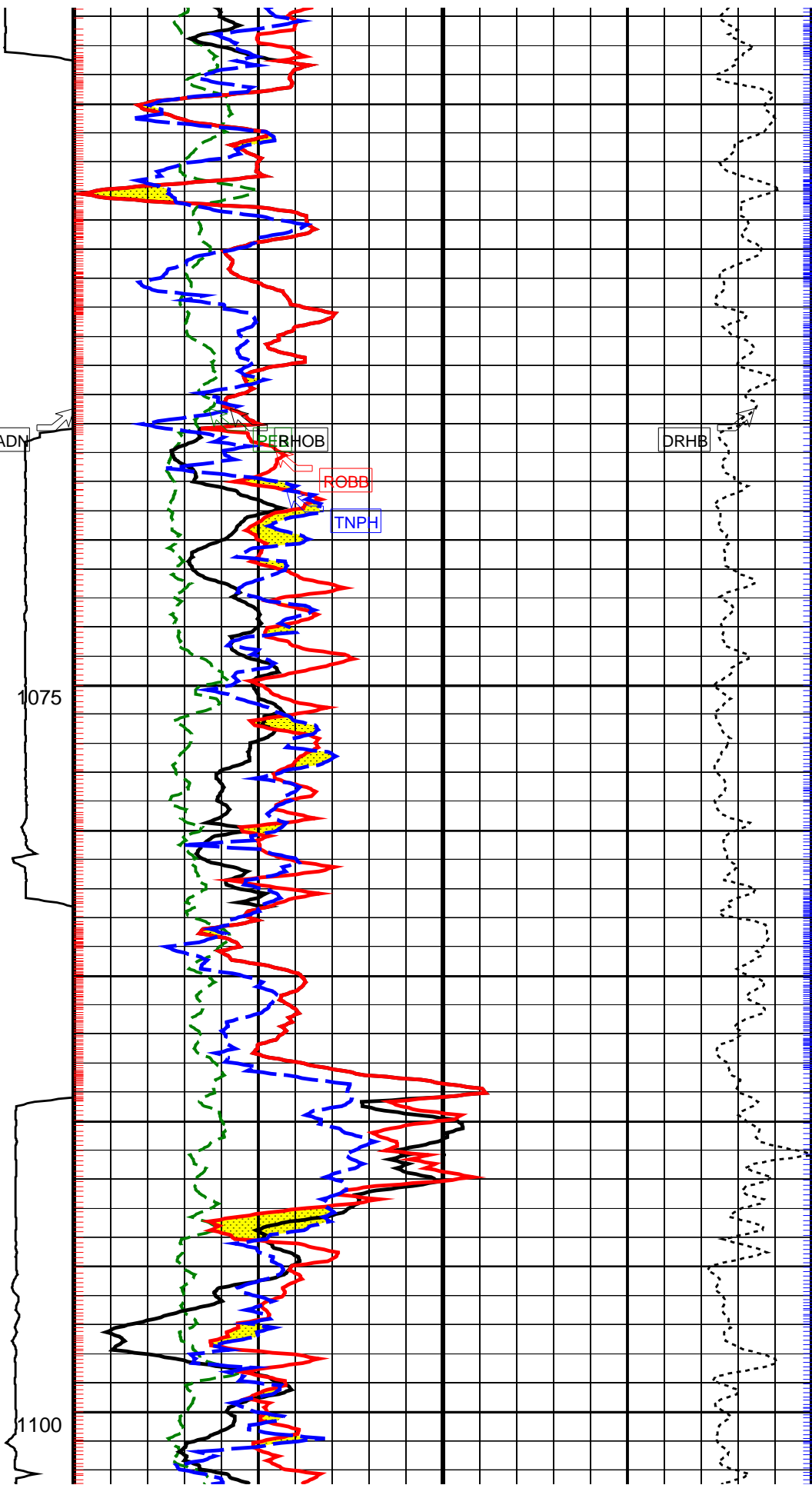


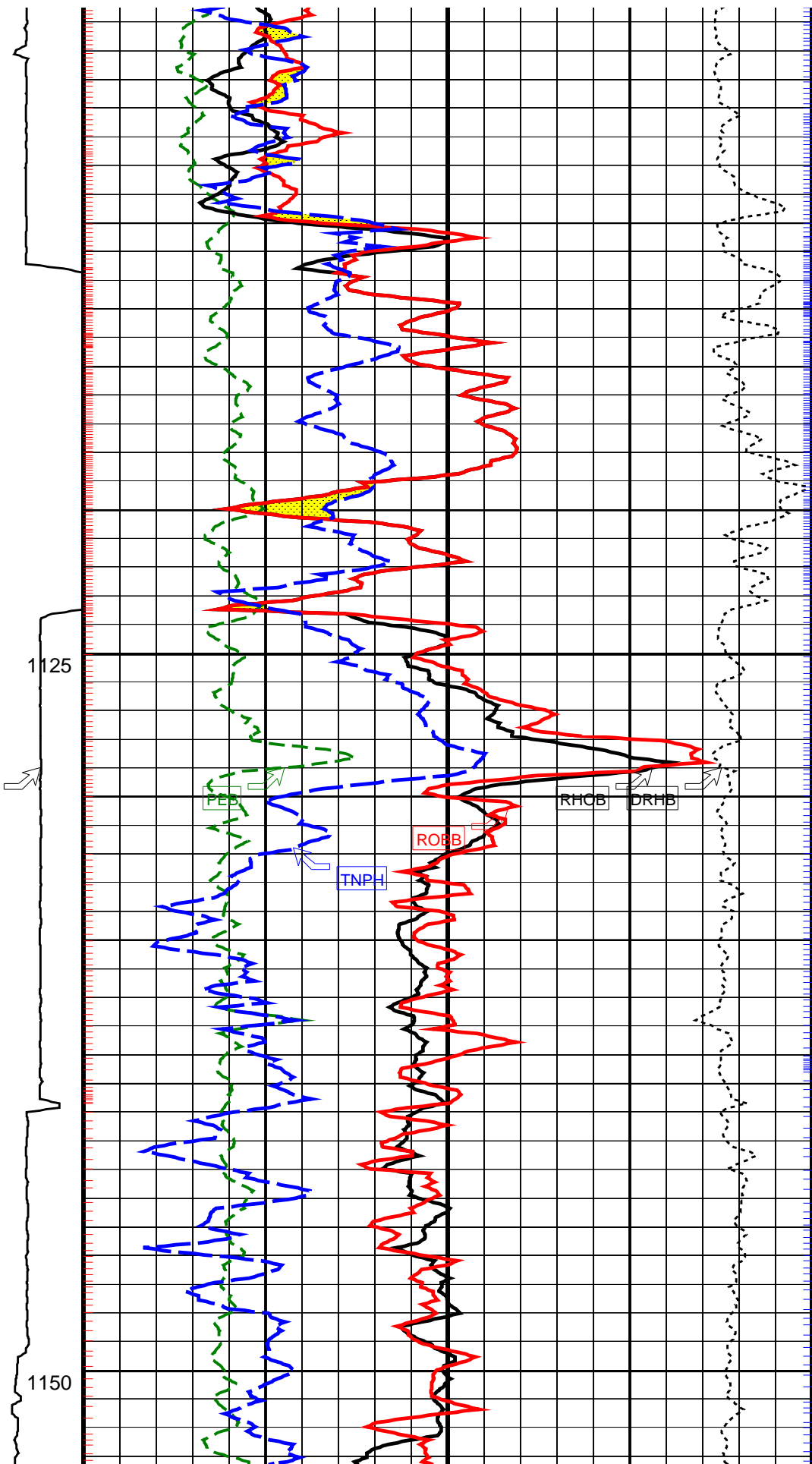
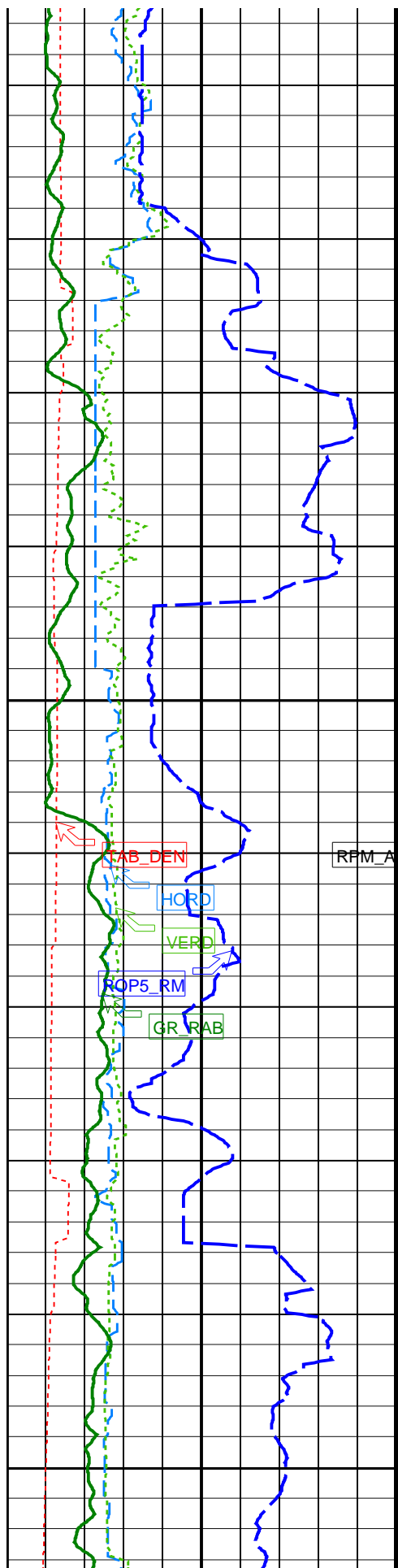


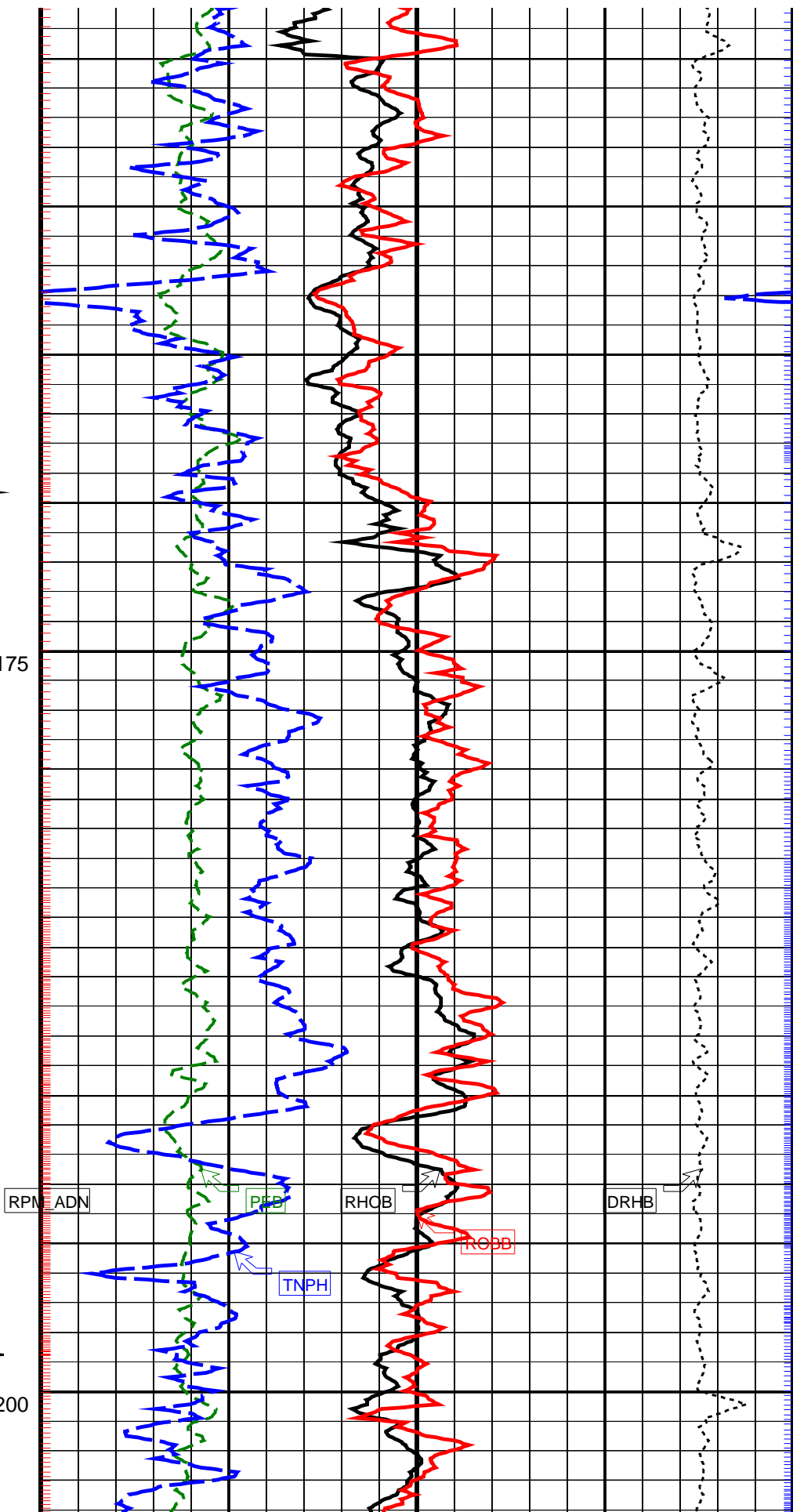
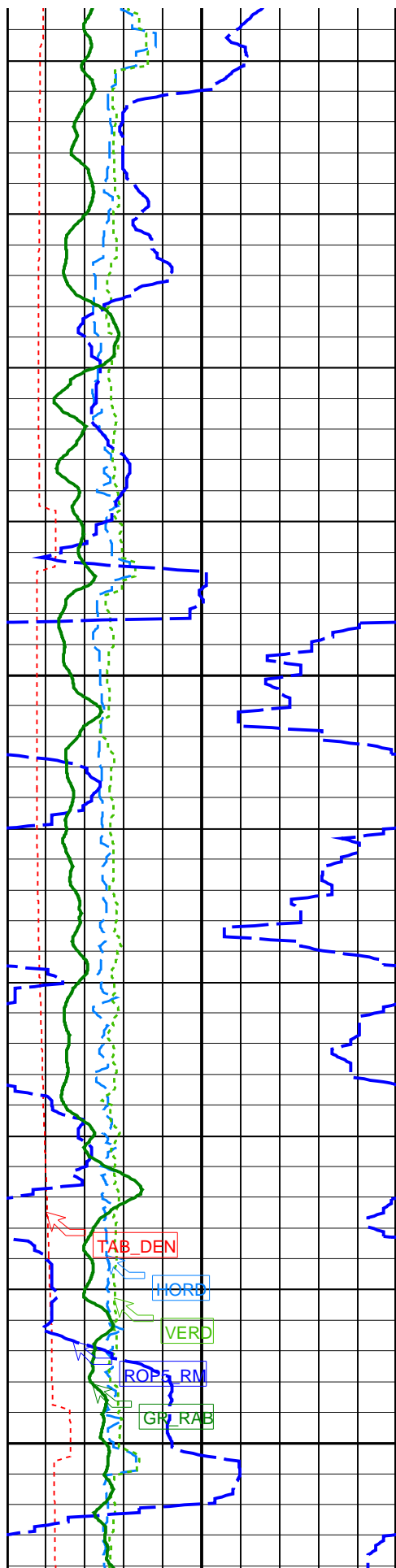
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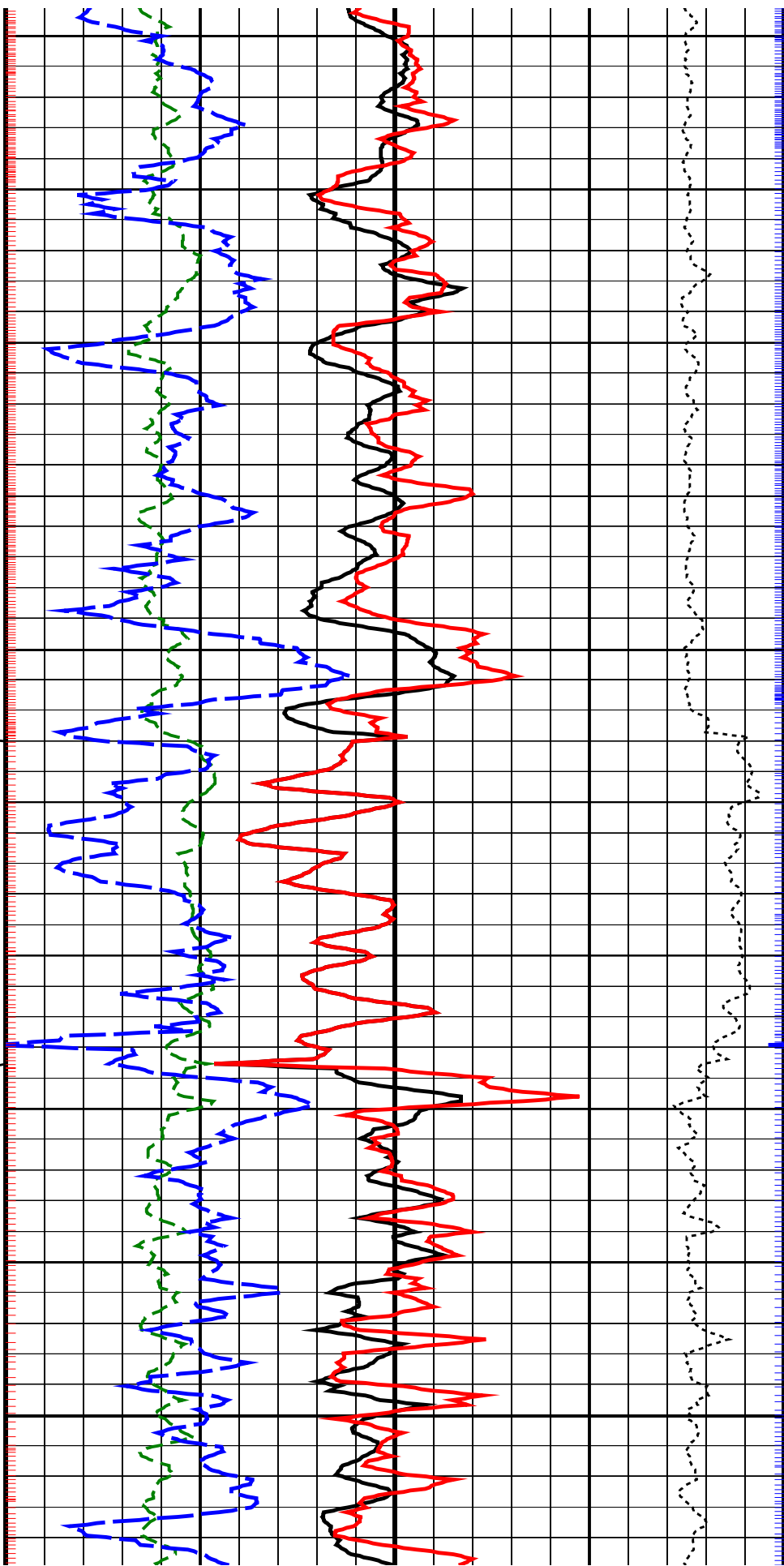
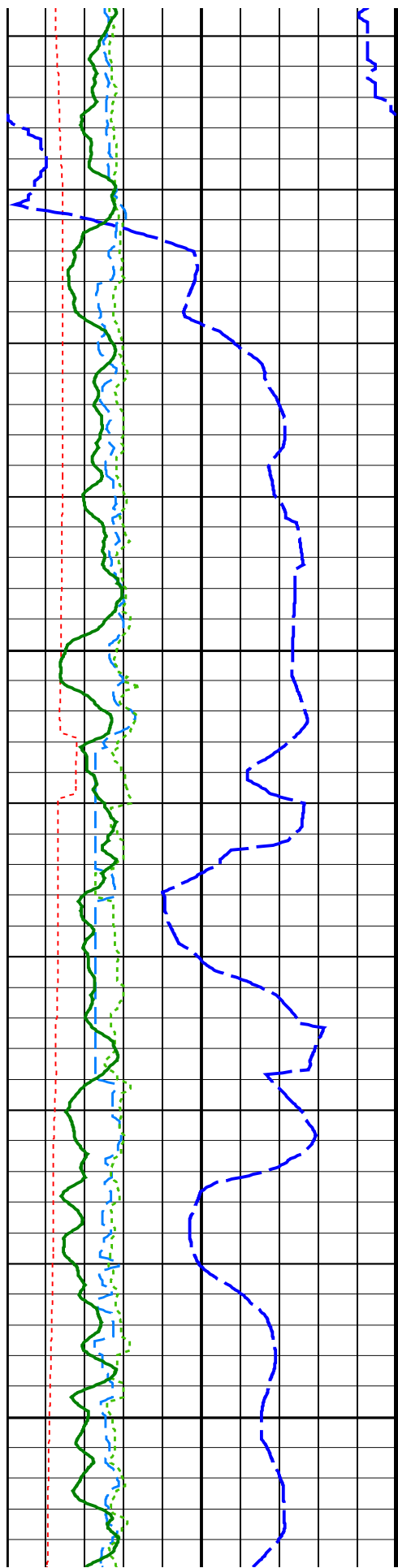
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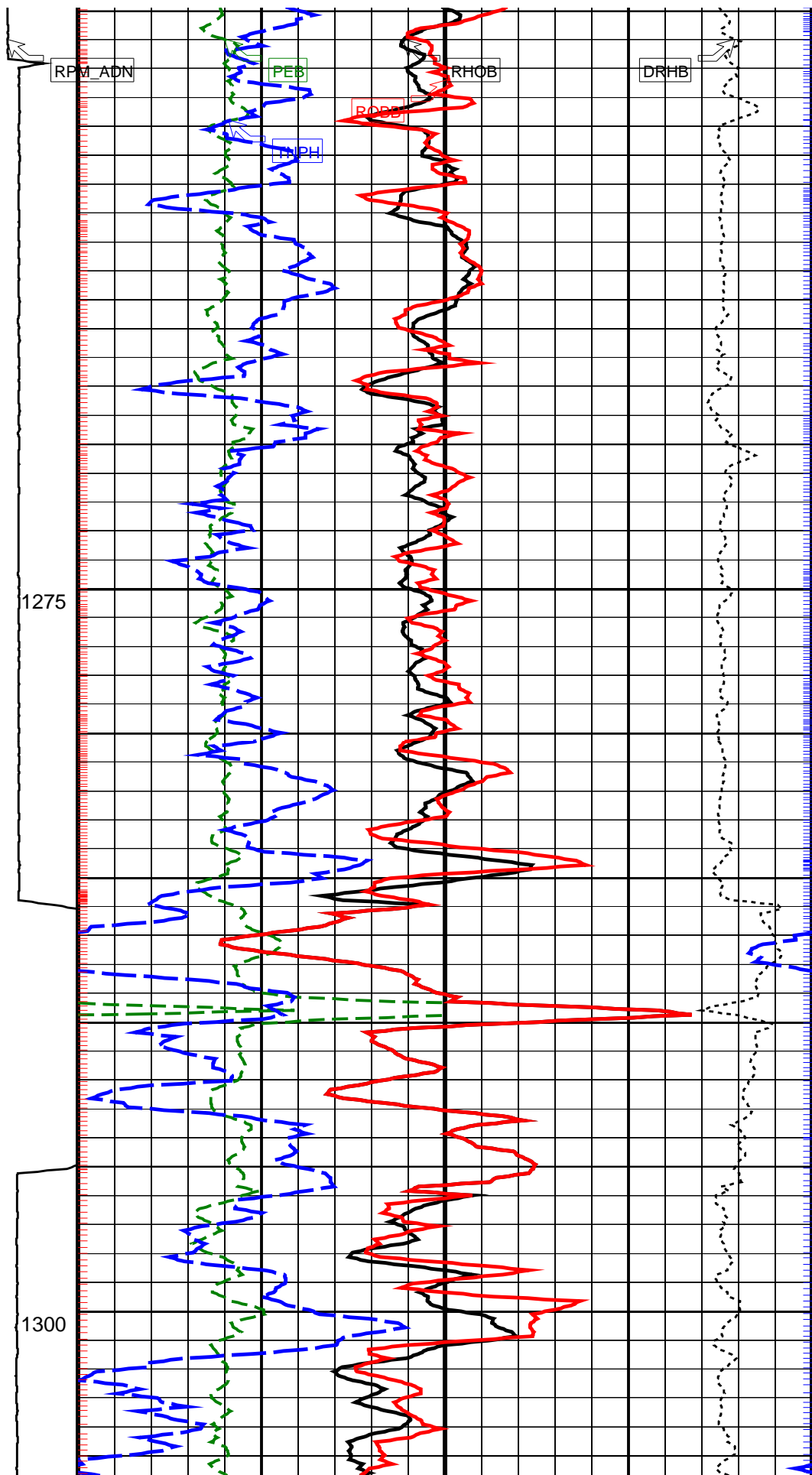
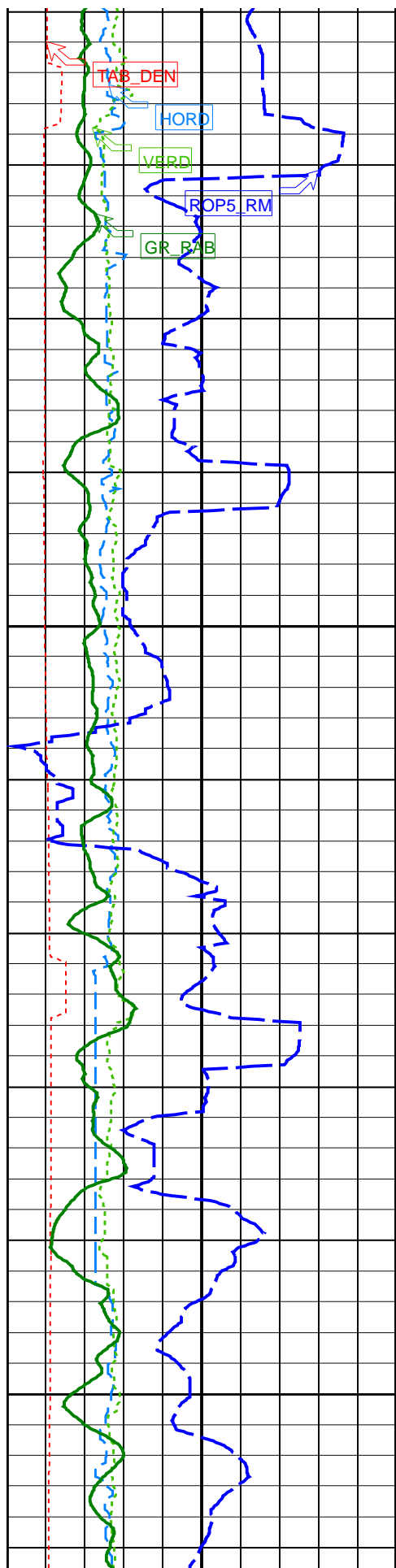
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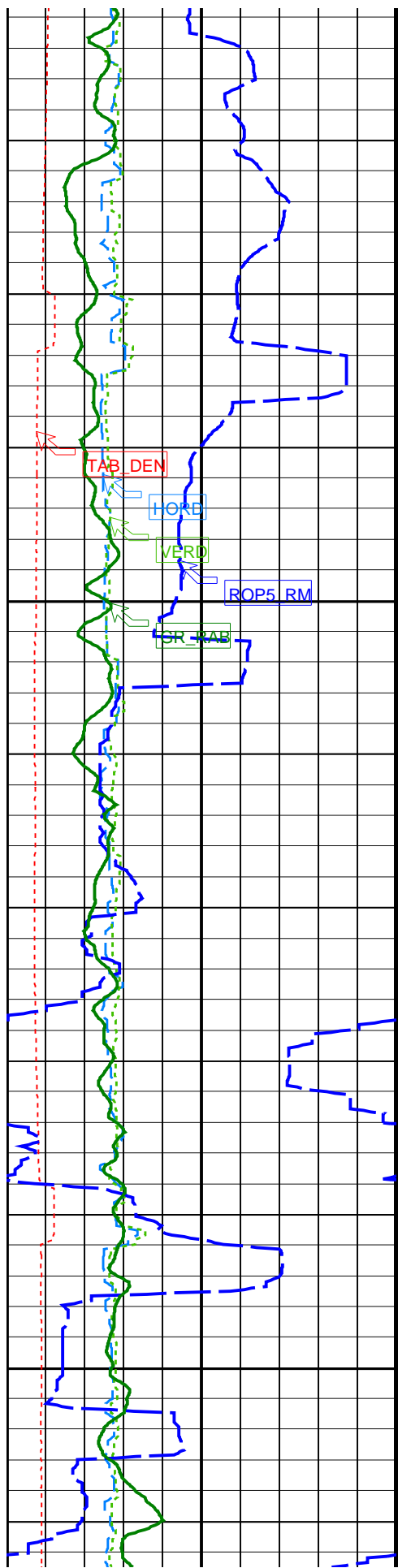






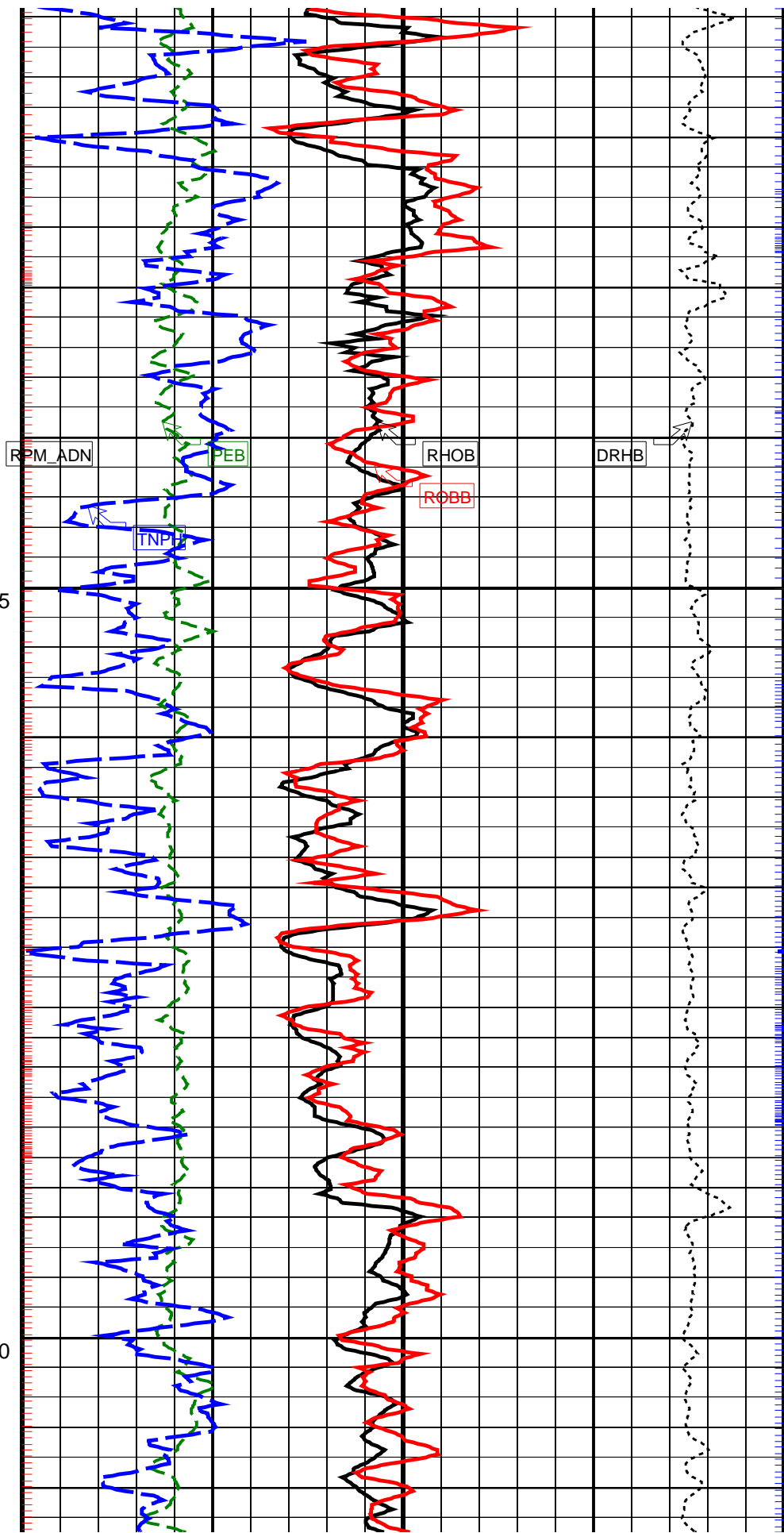


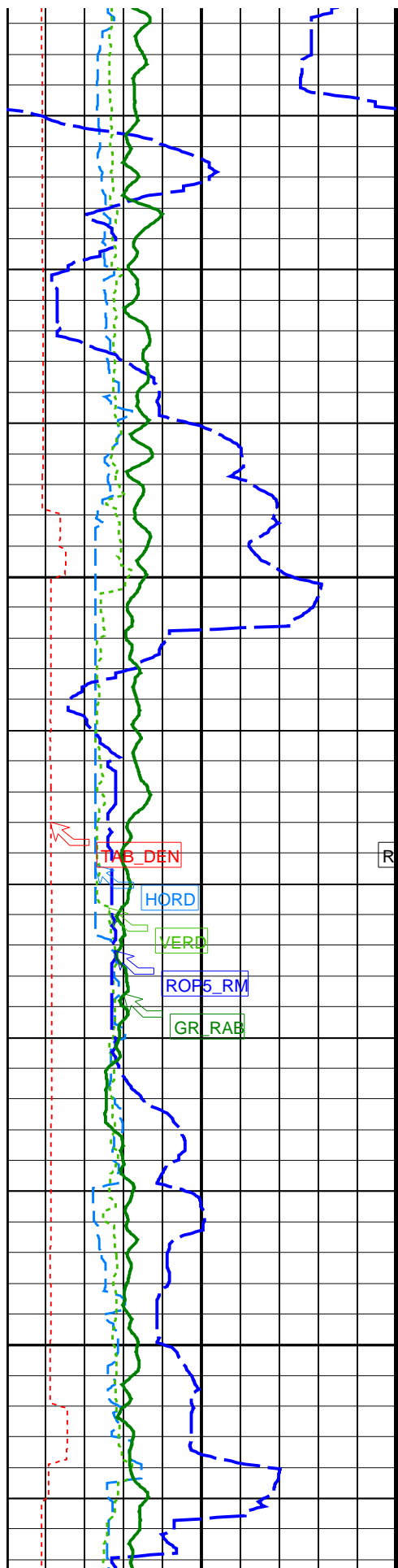




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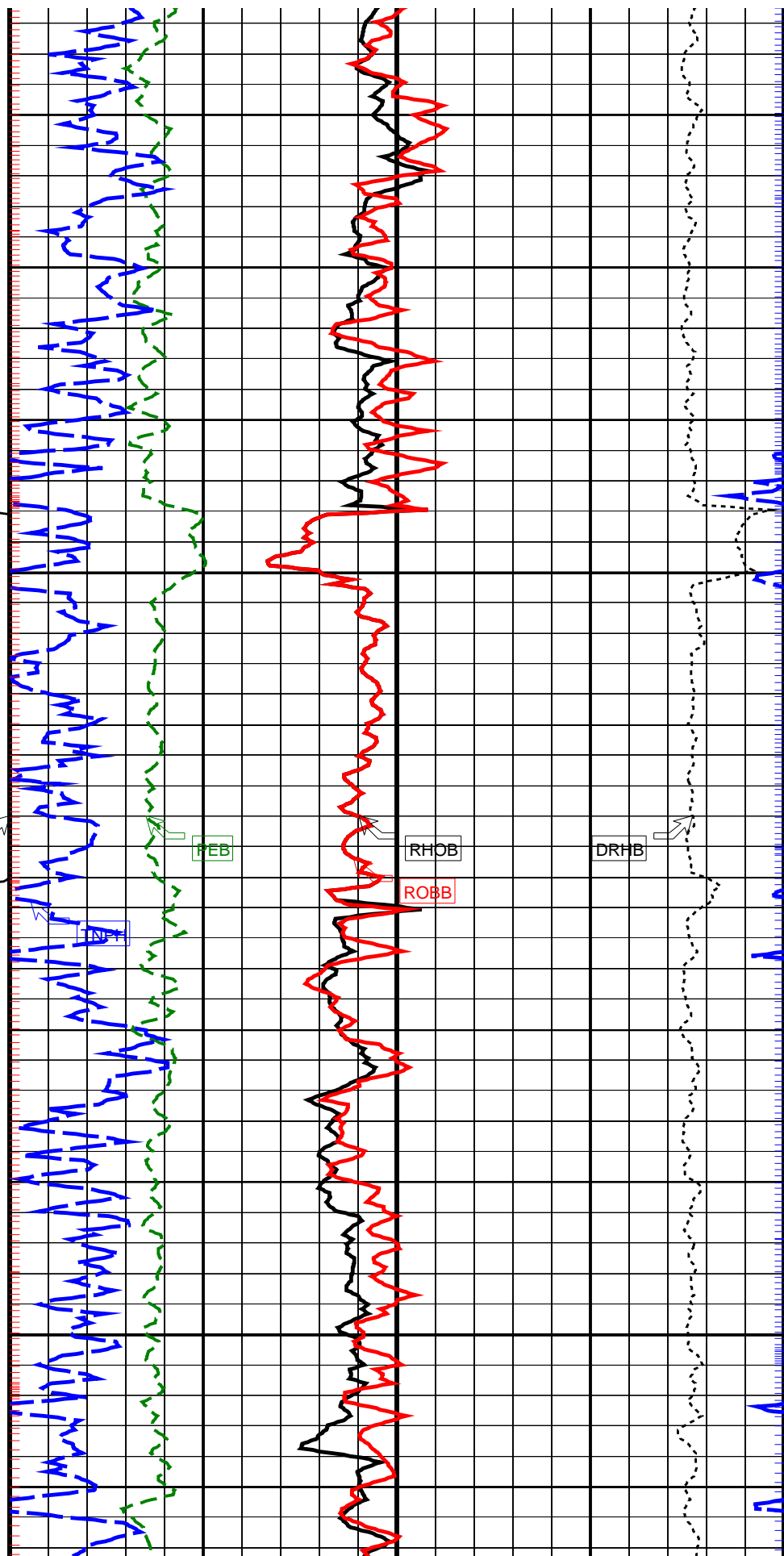


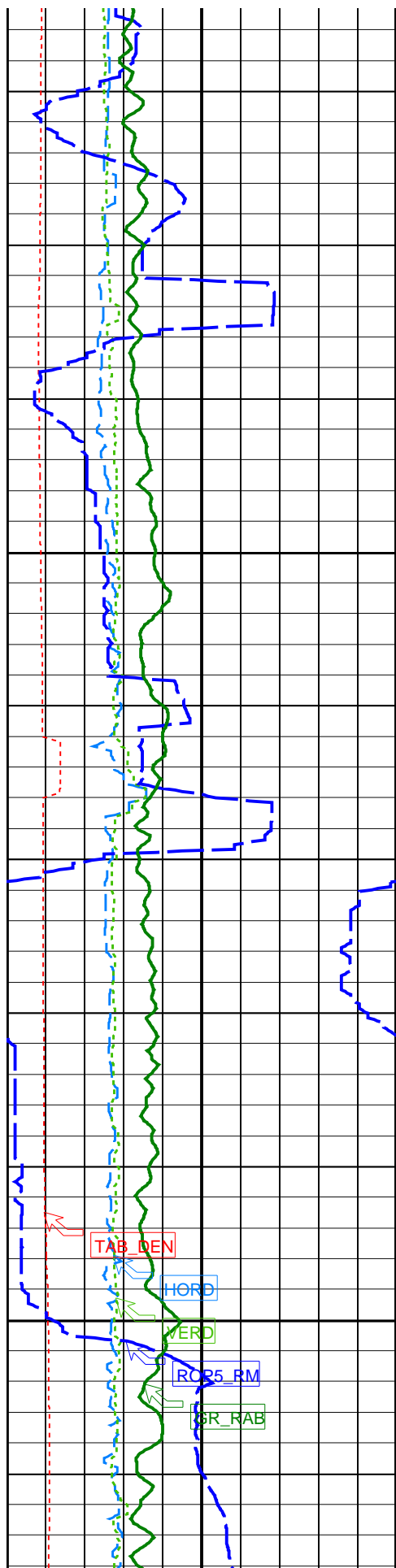


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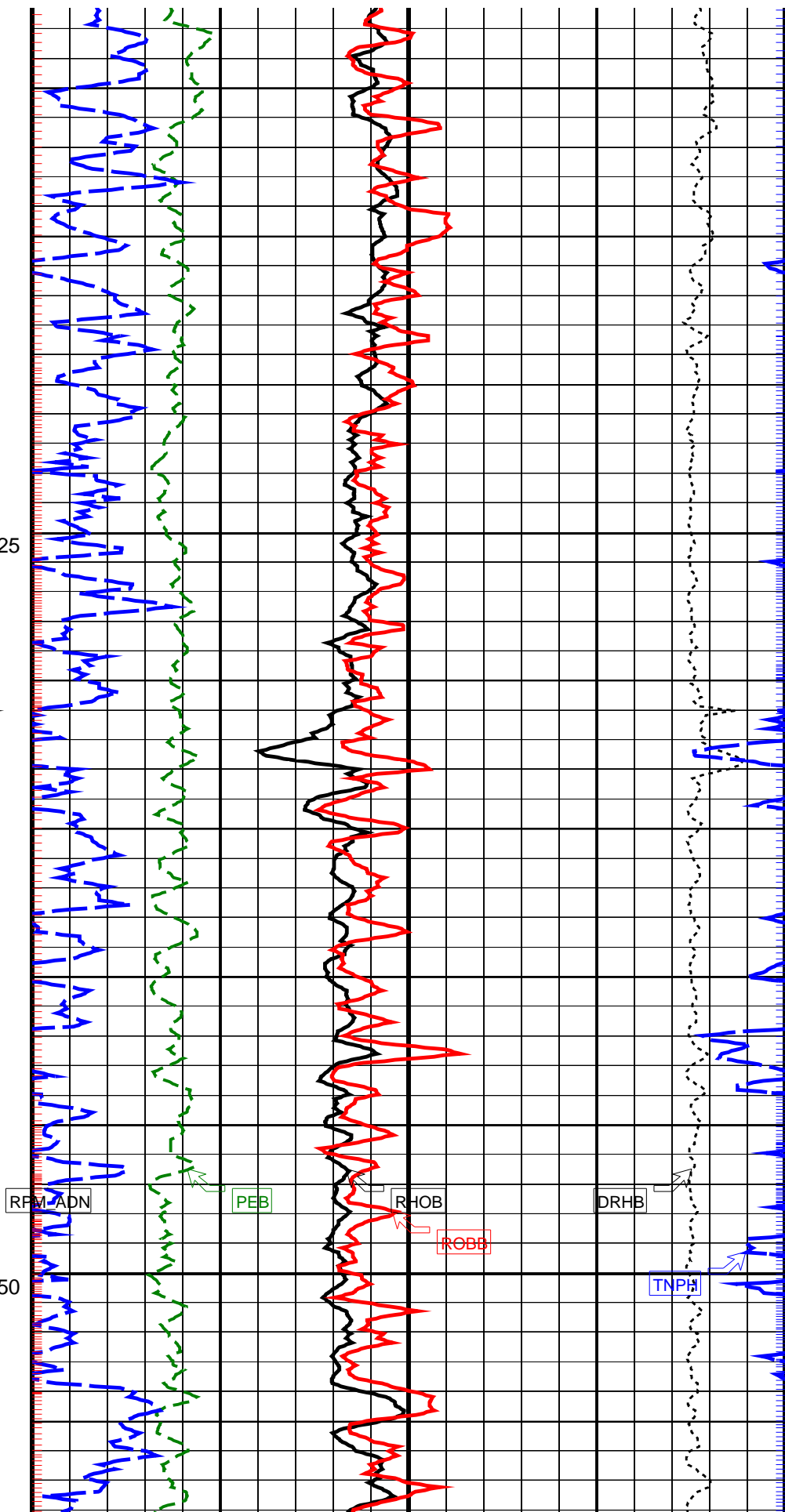
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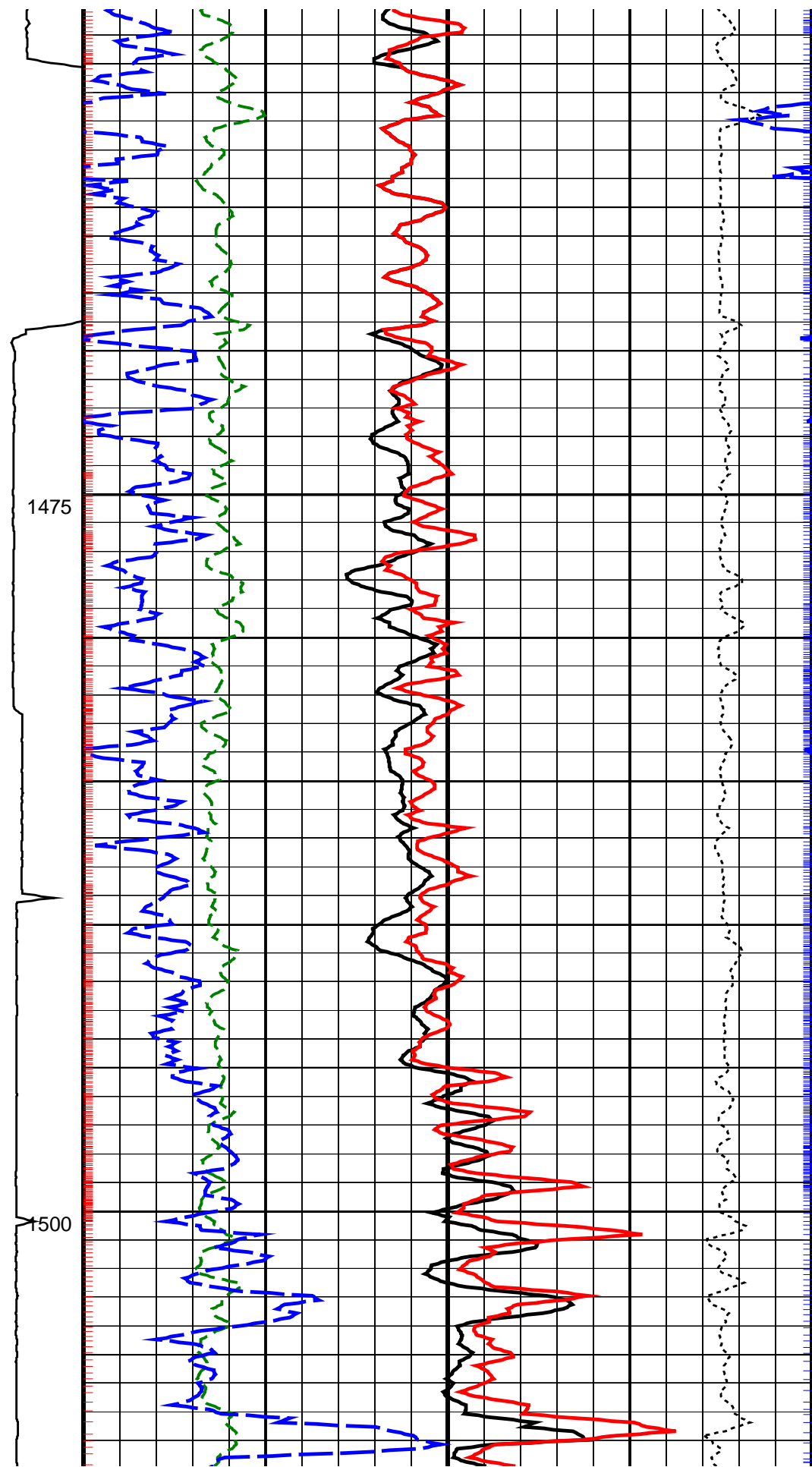
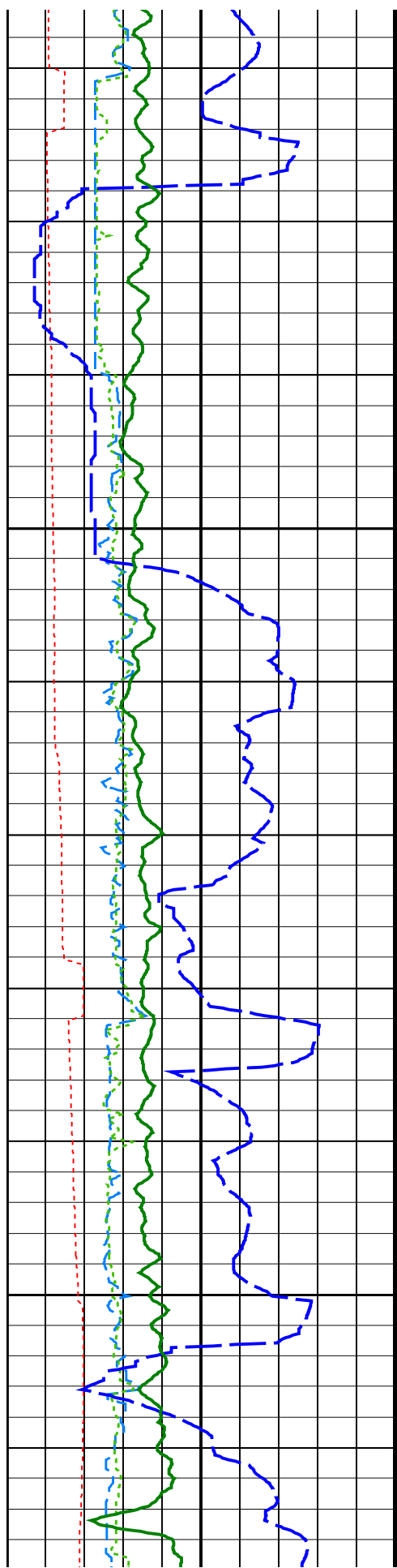




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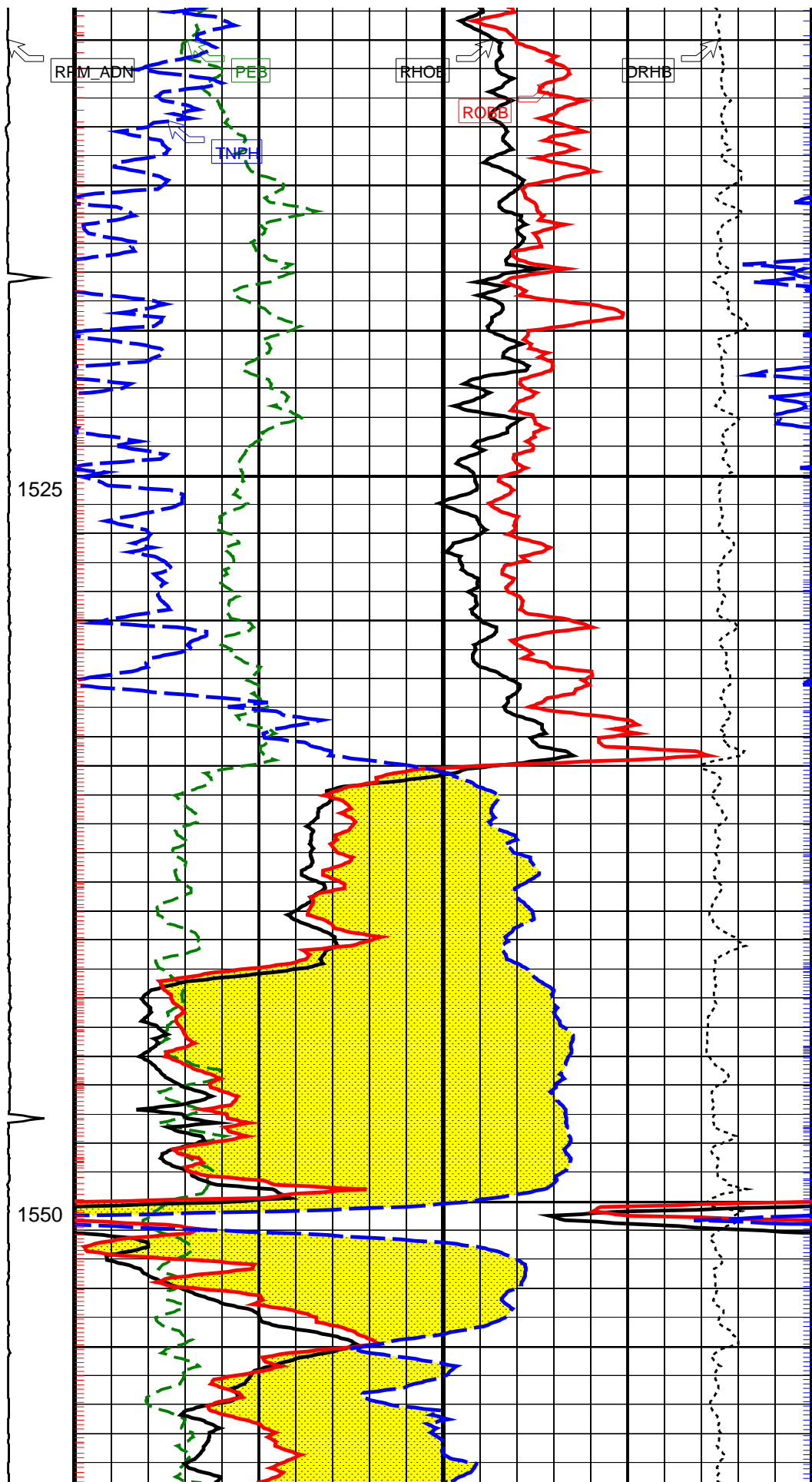
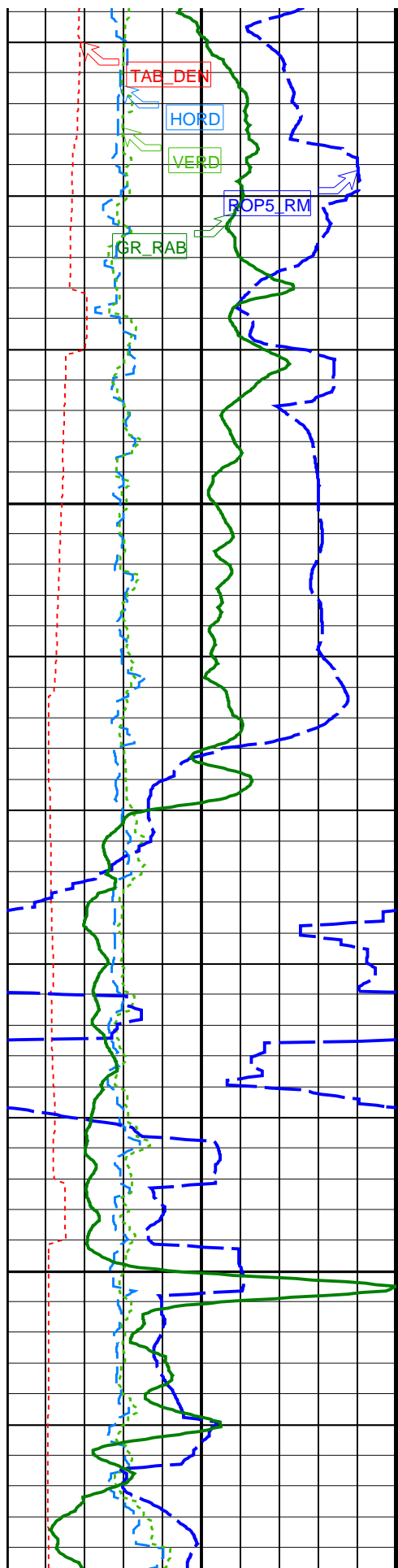
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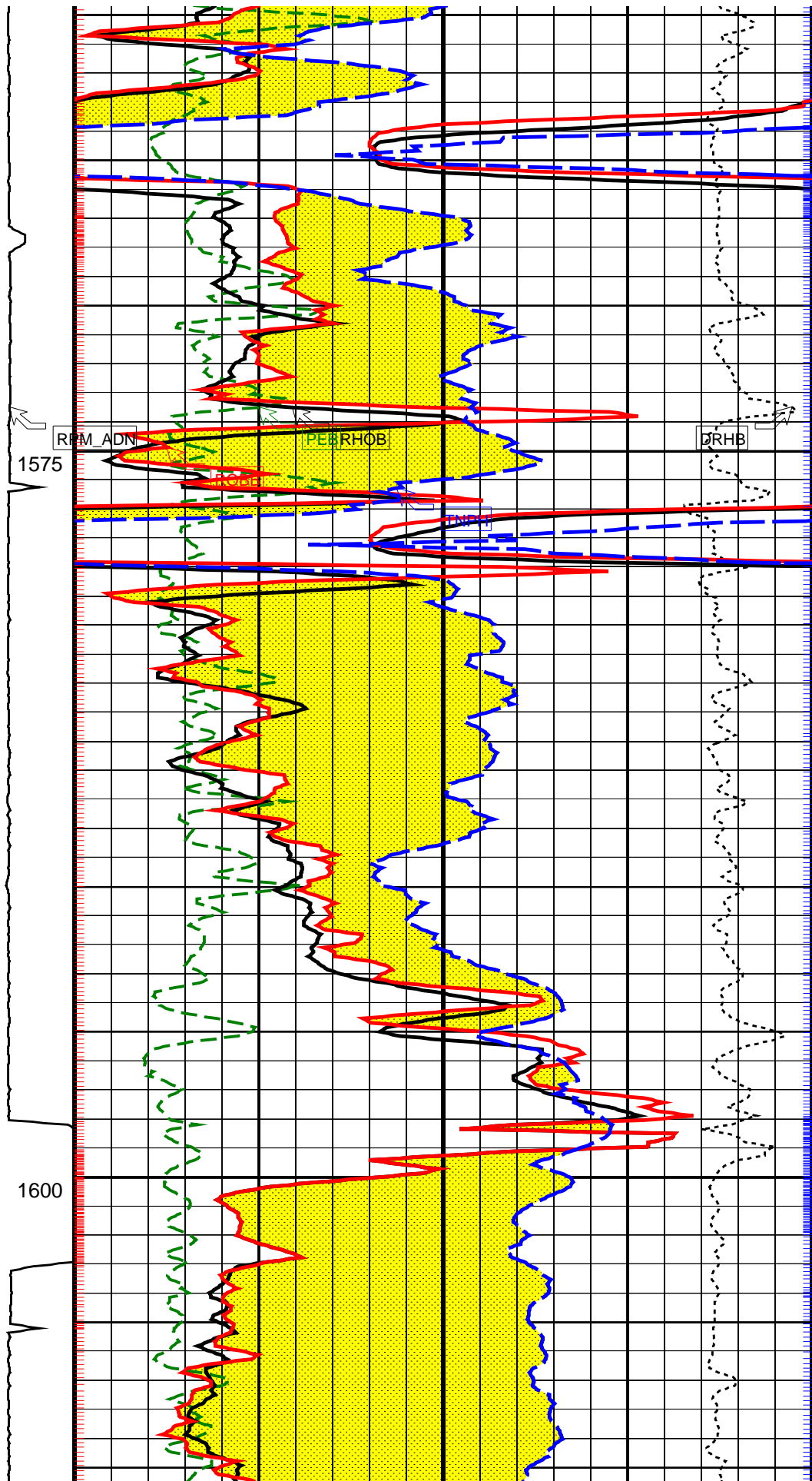
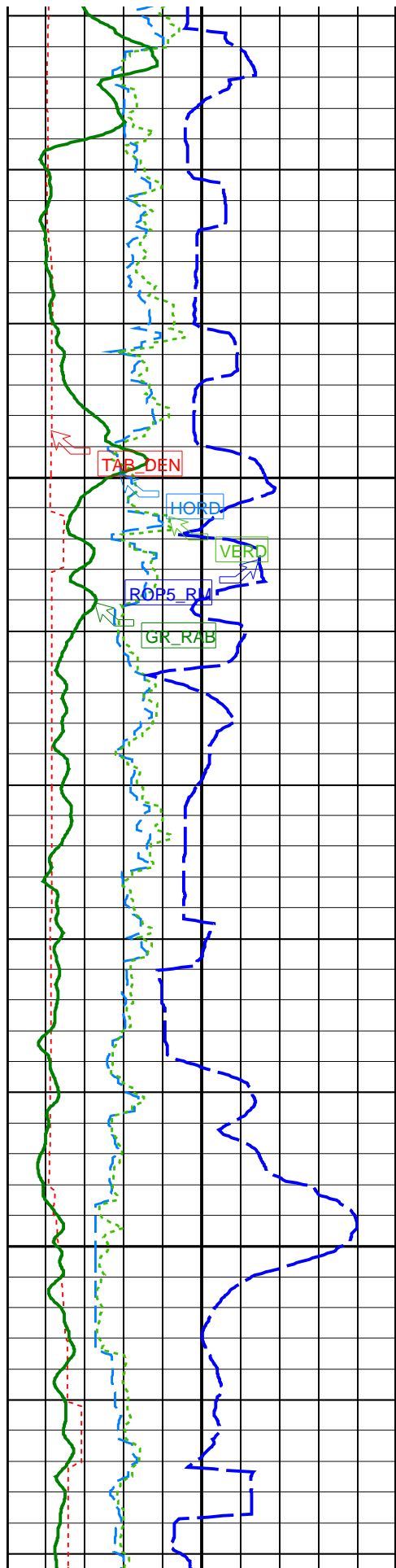


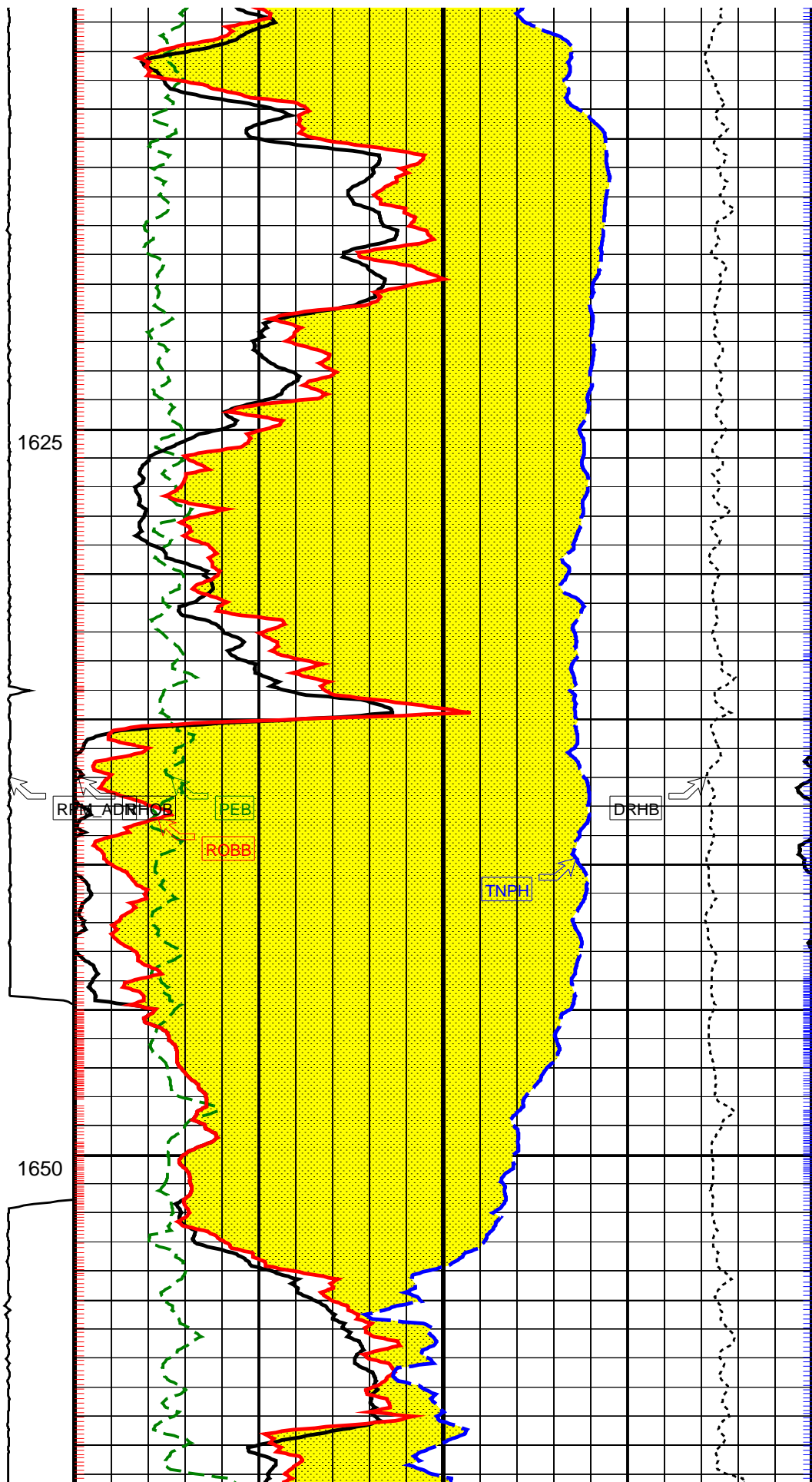
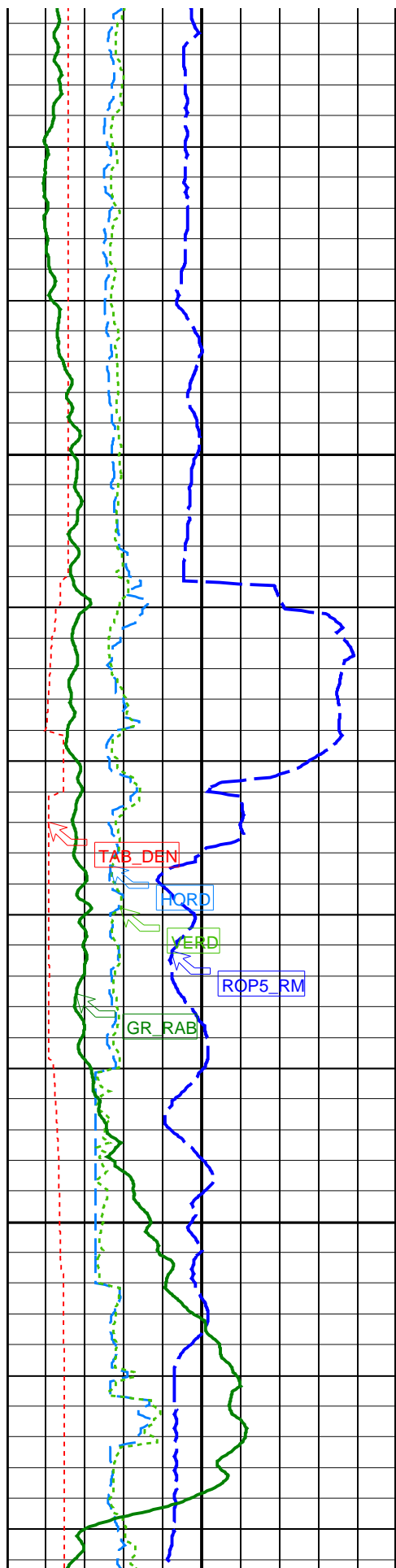


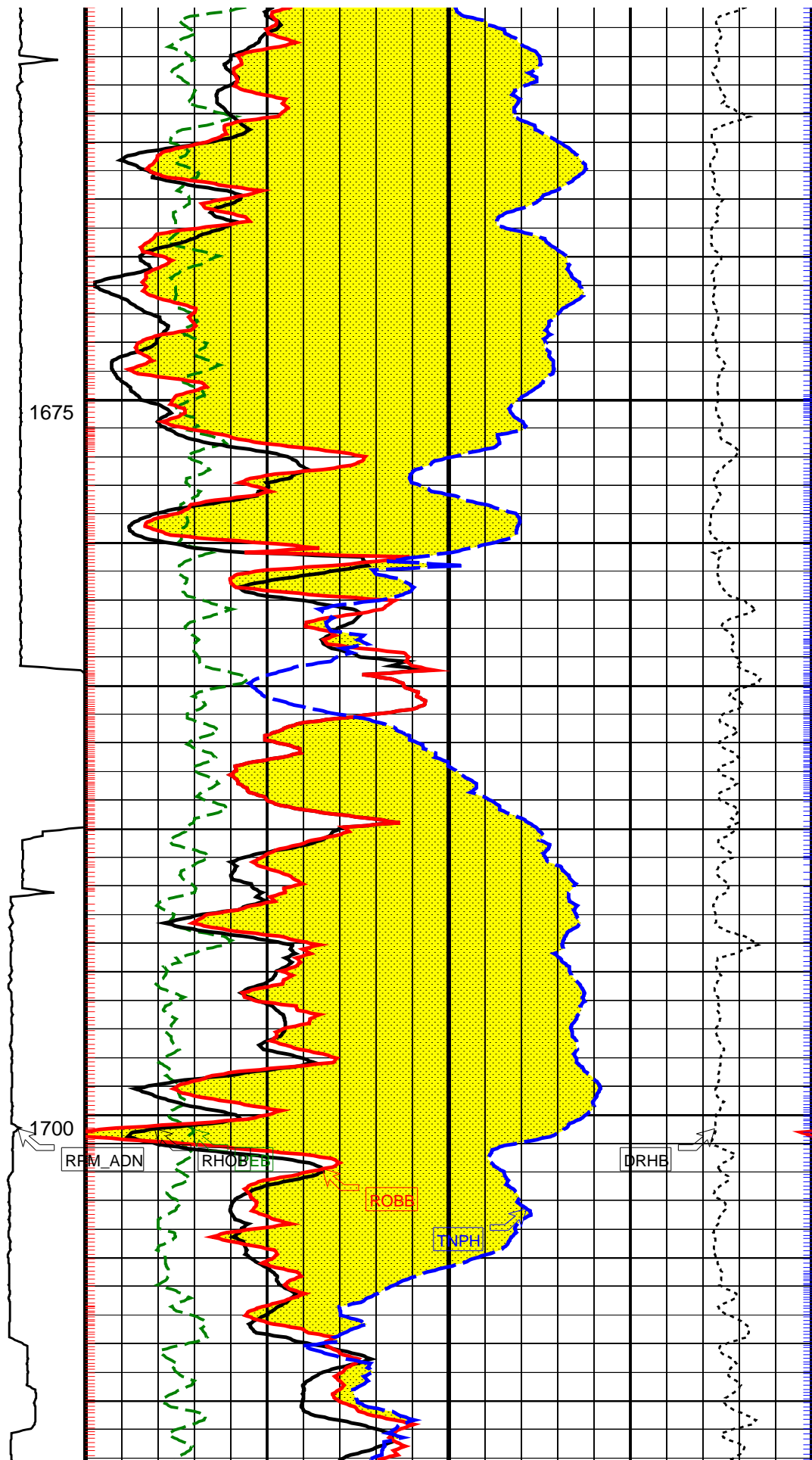
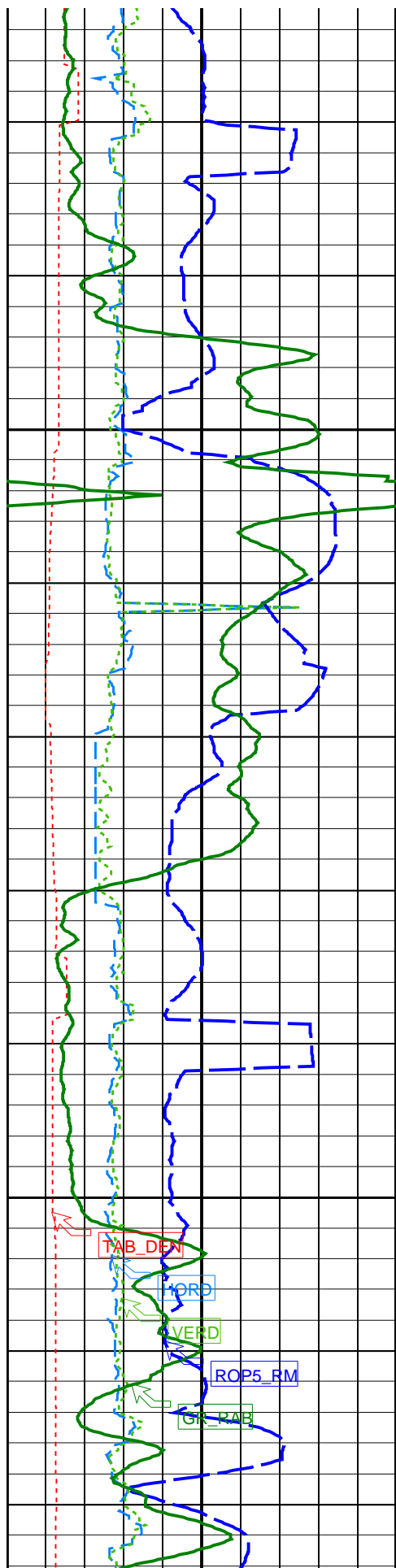
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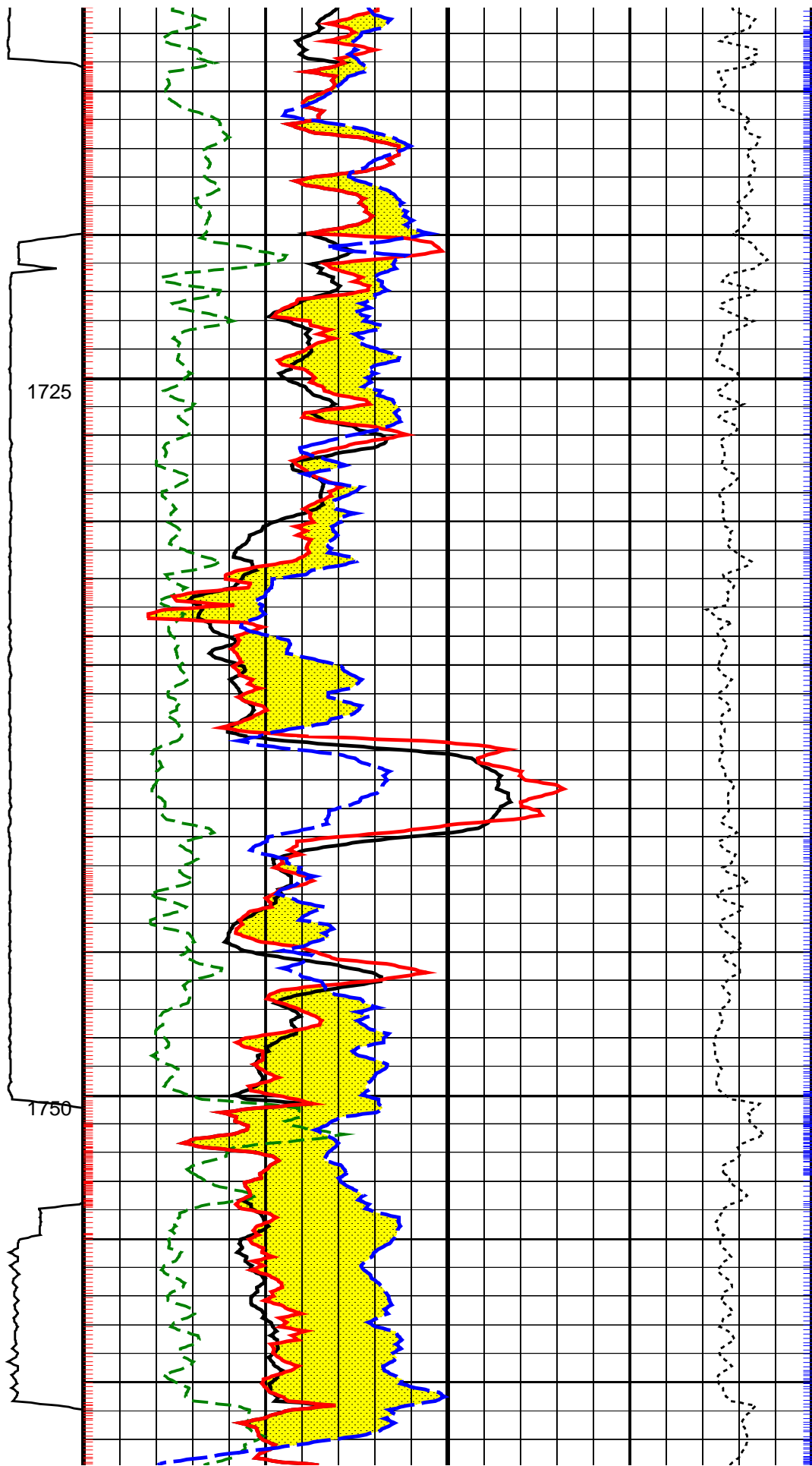
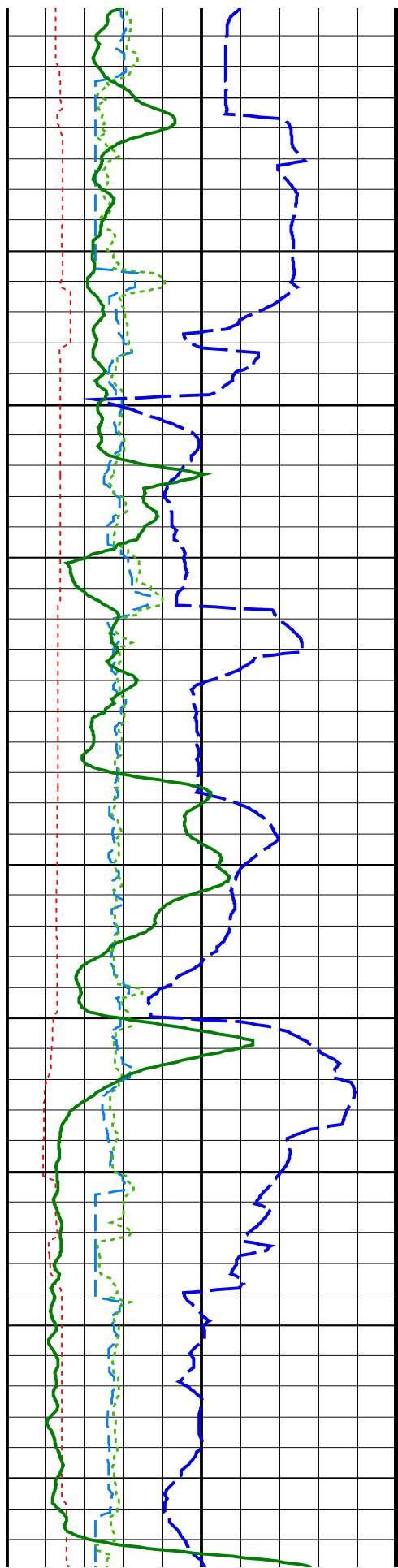
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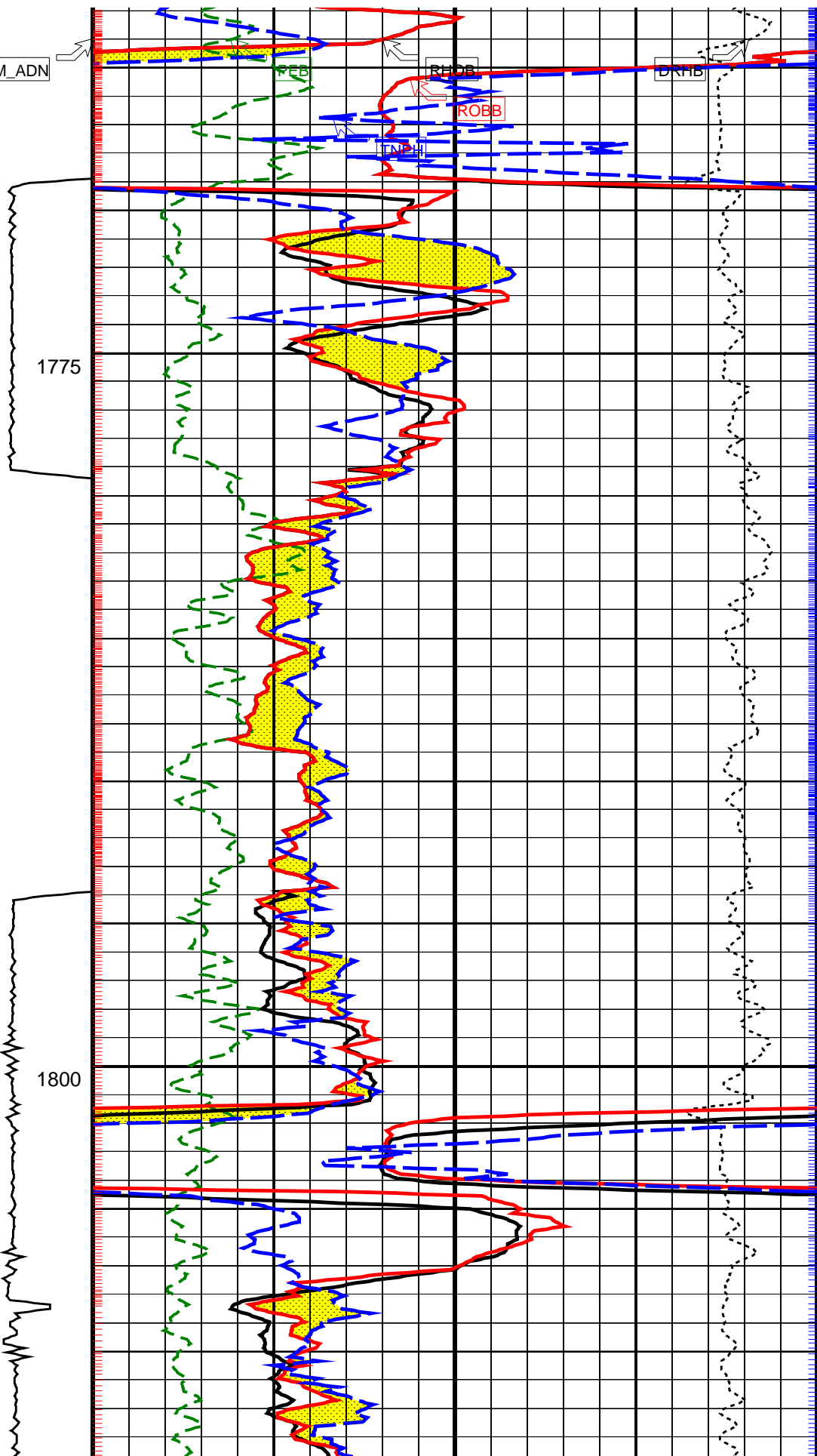
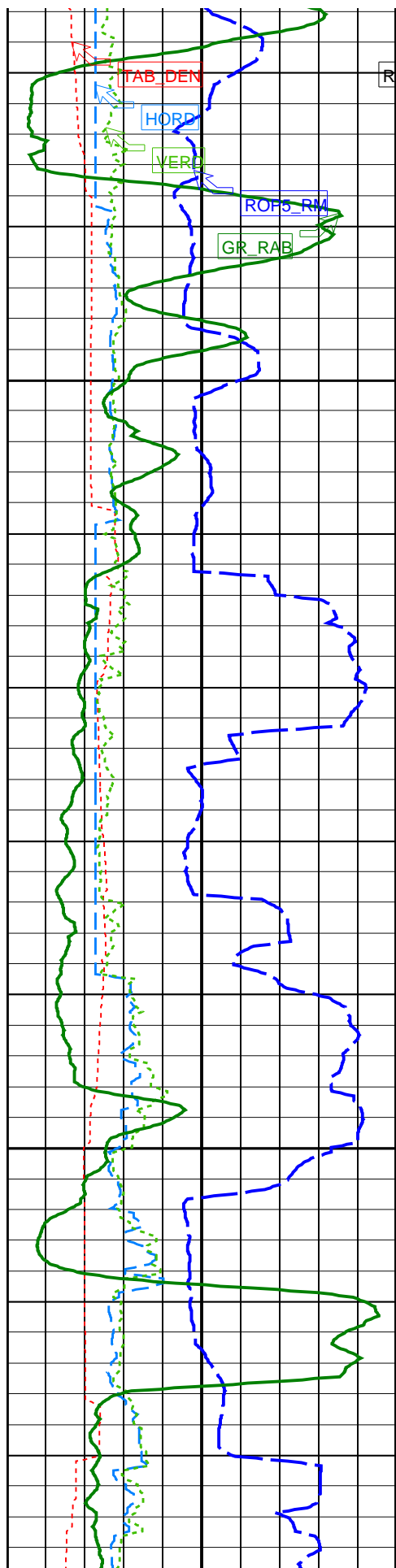


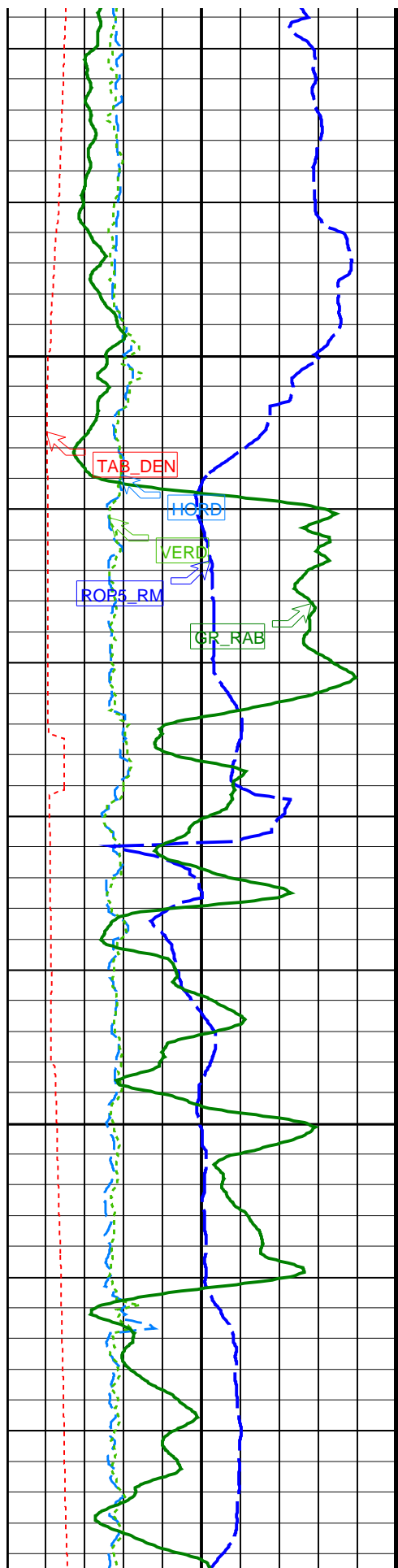












1825

RPM ADN

PEB

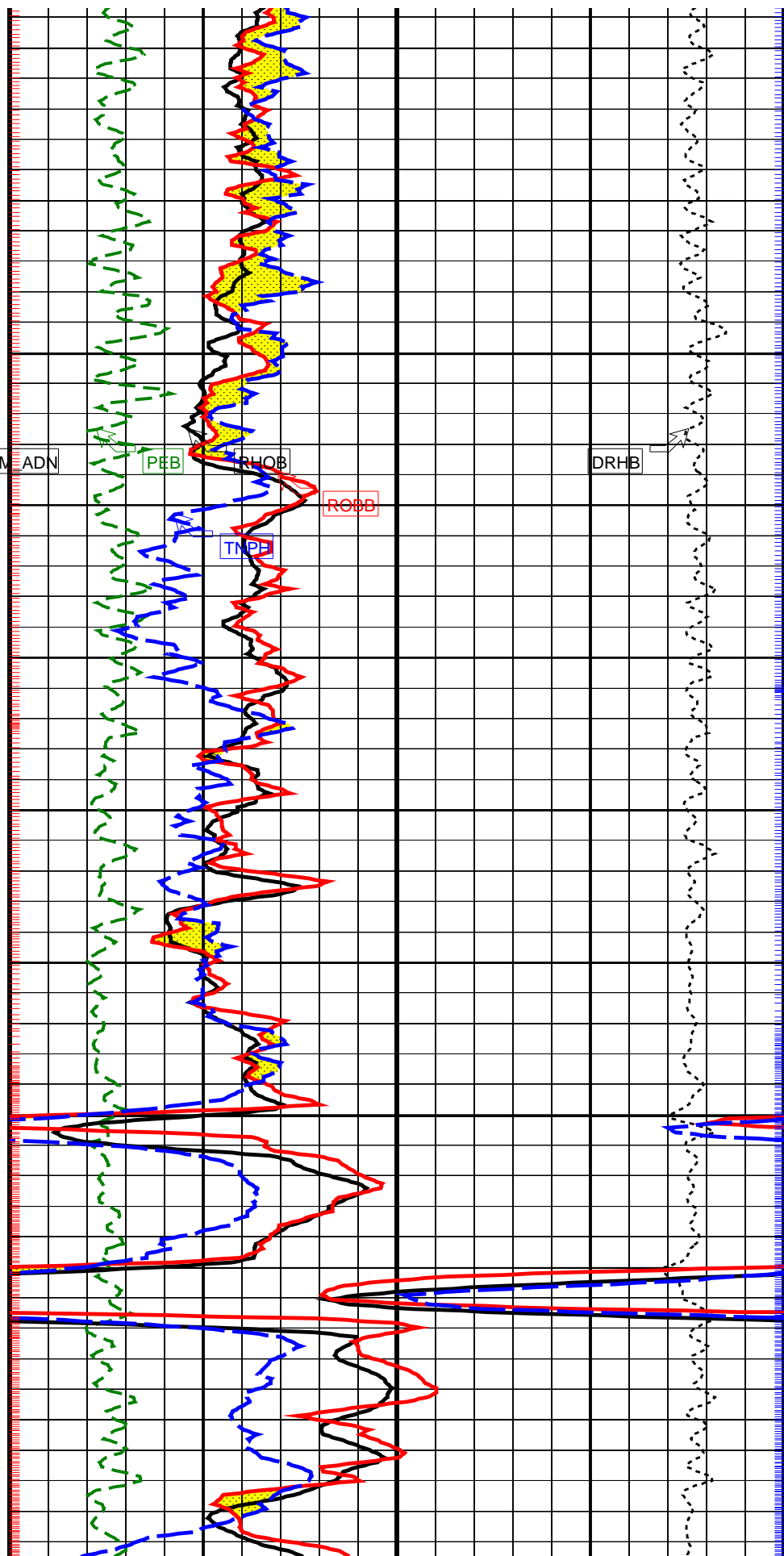
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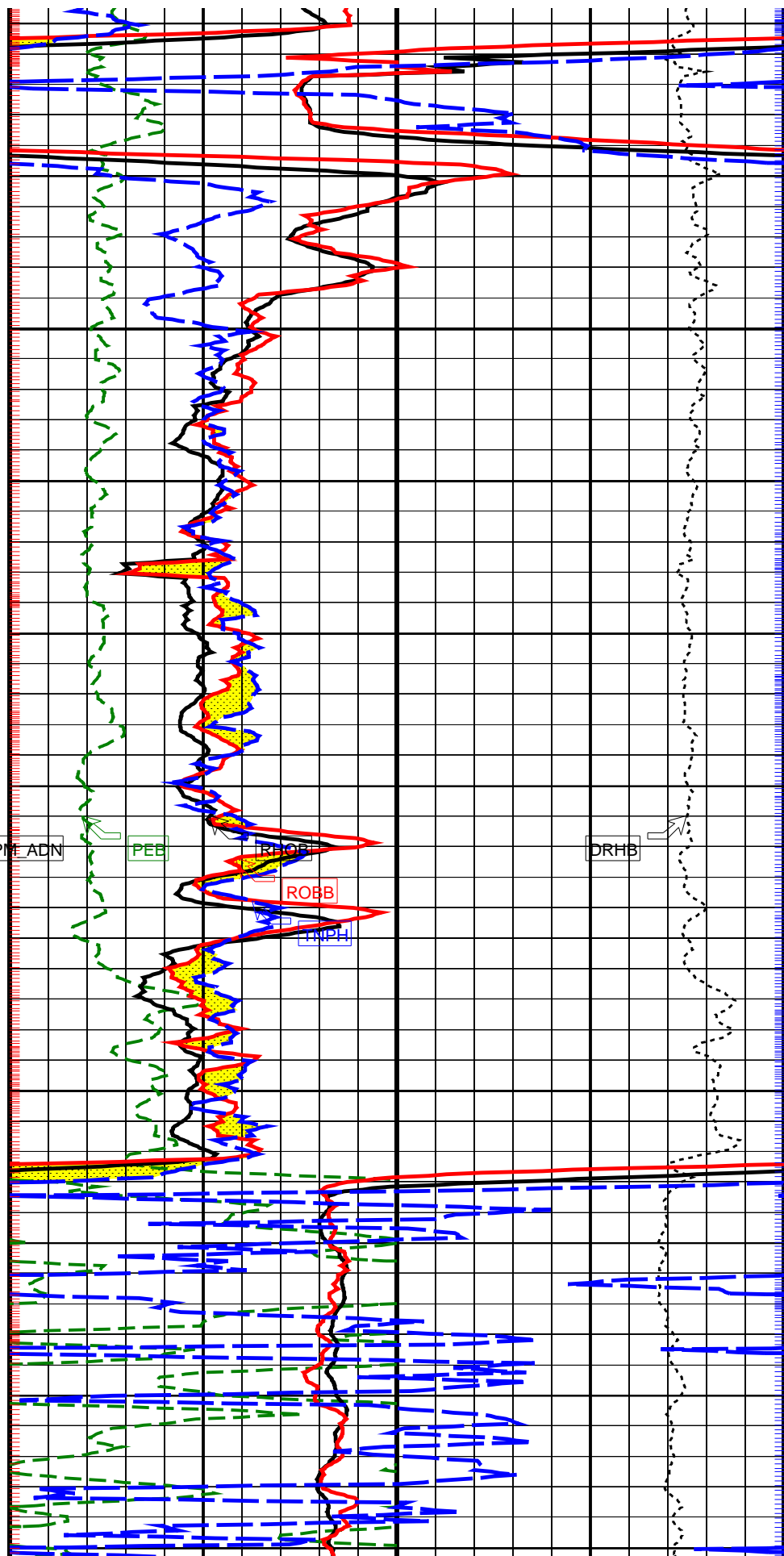
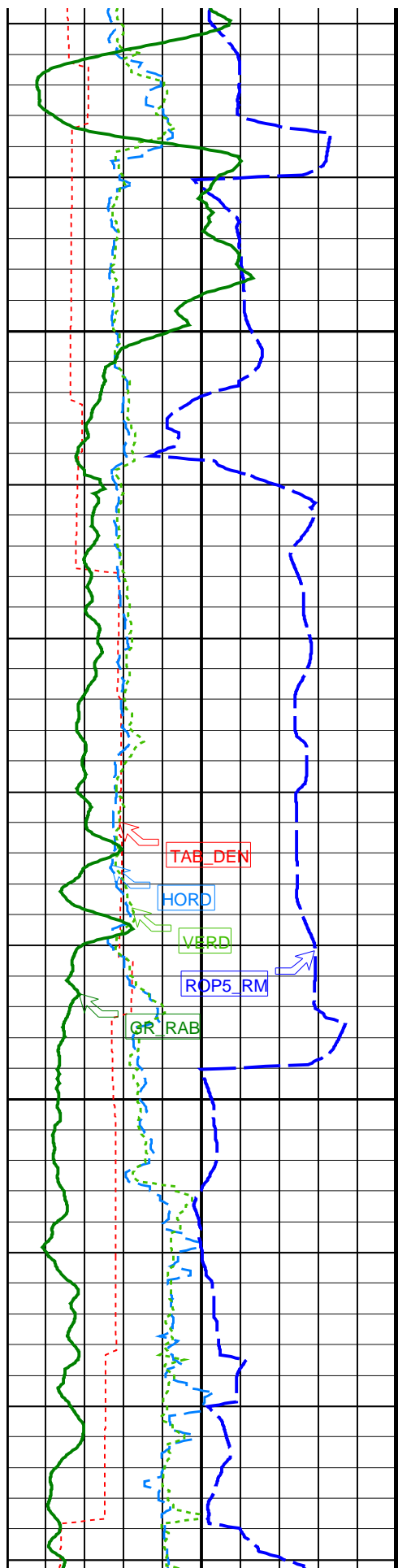
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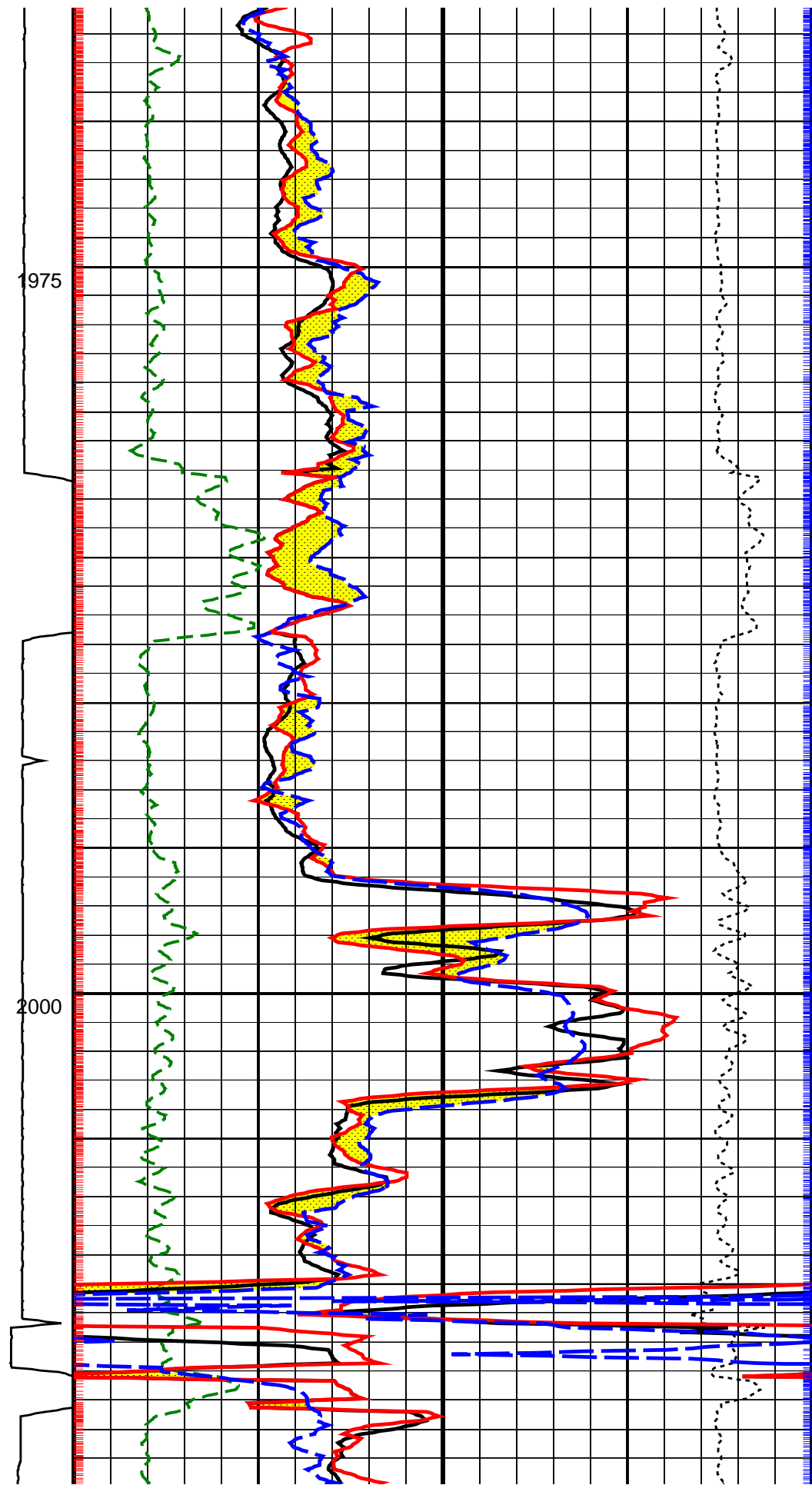
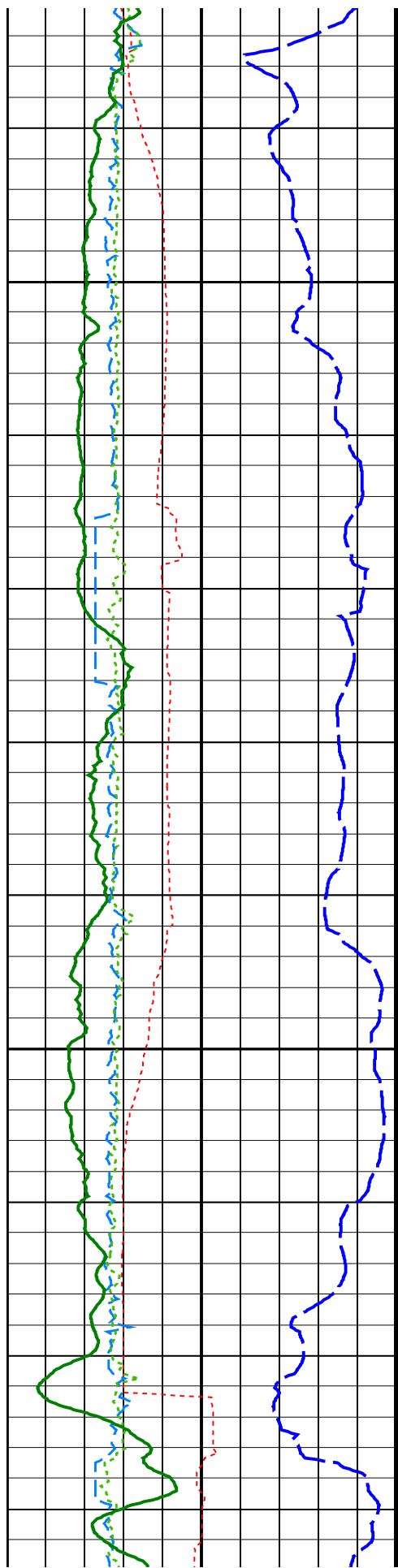
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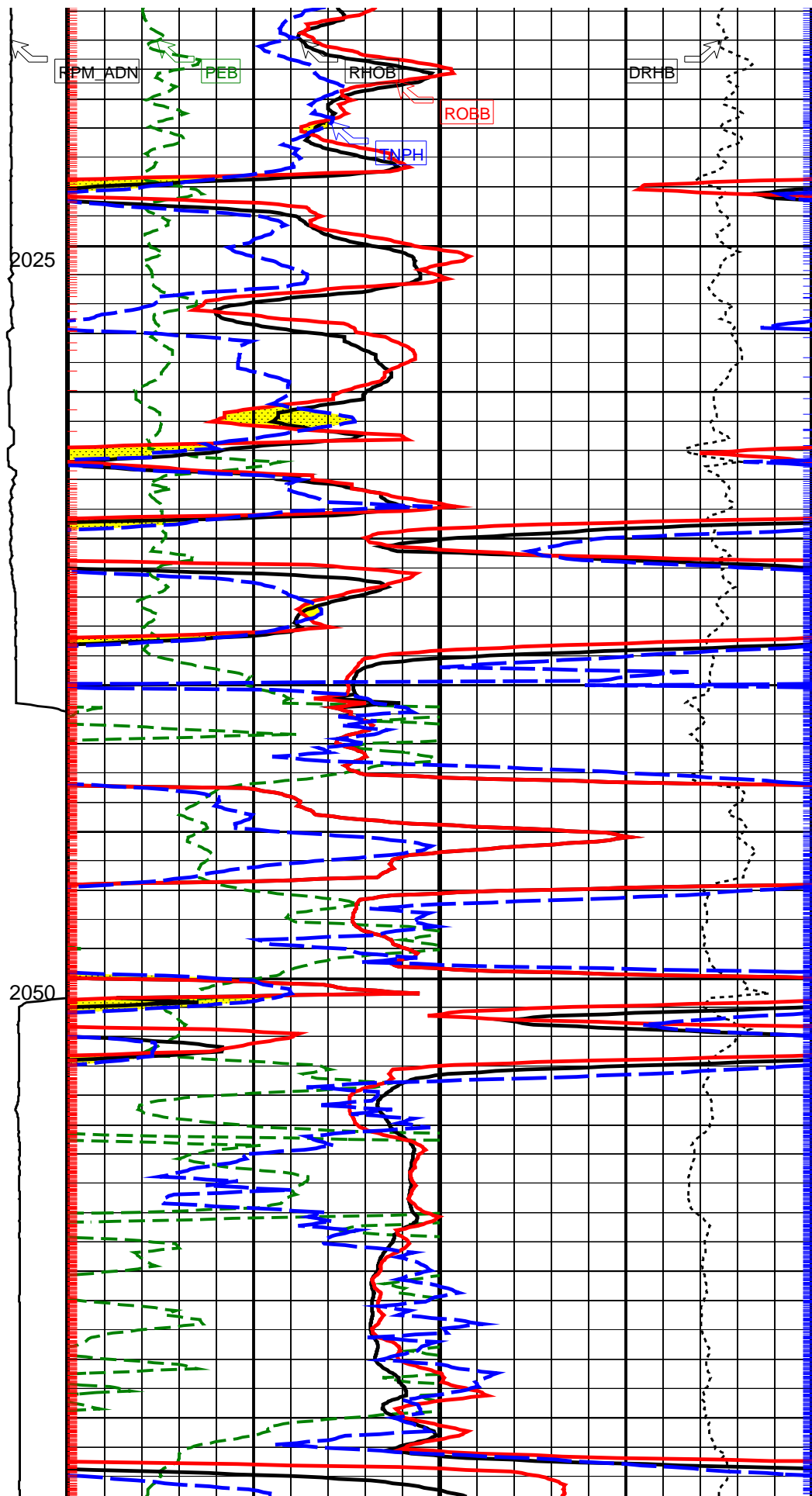
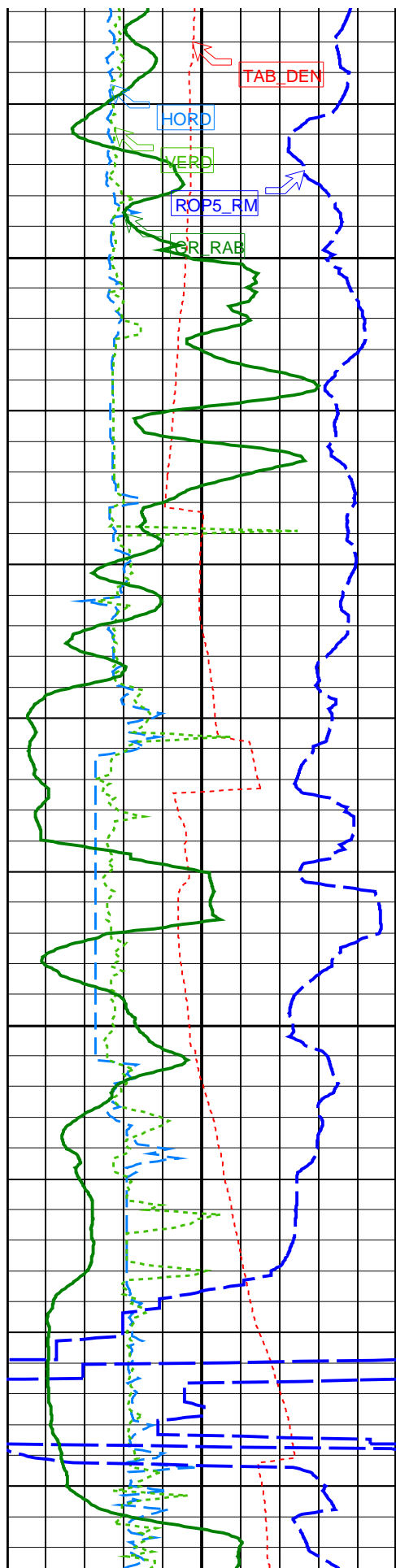
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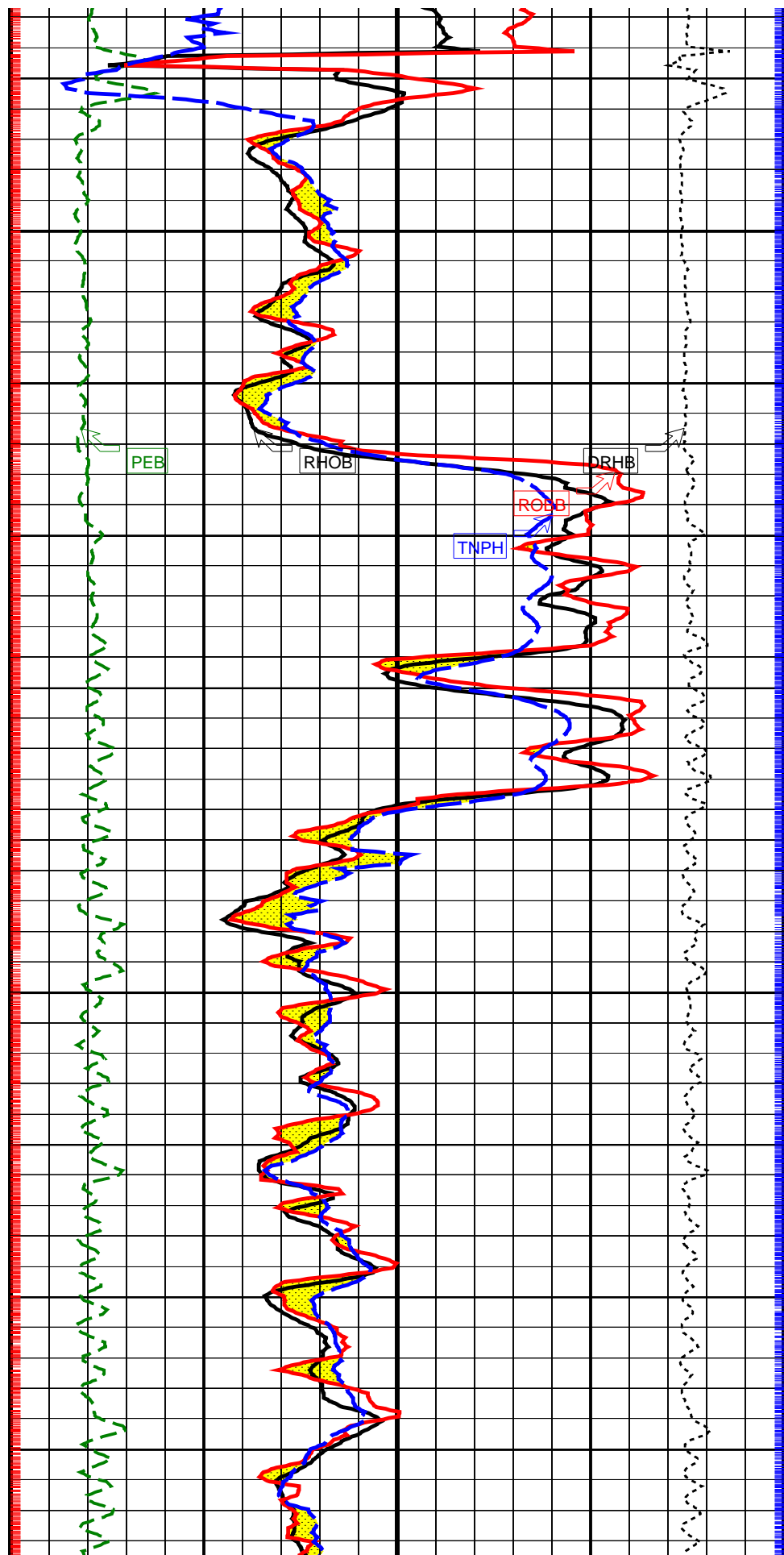
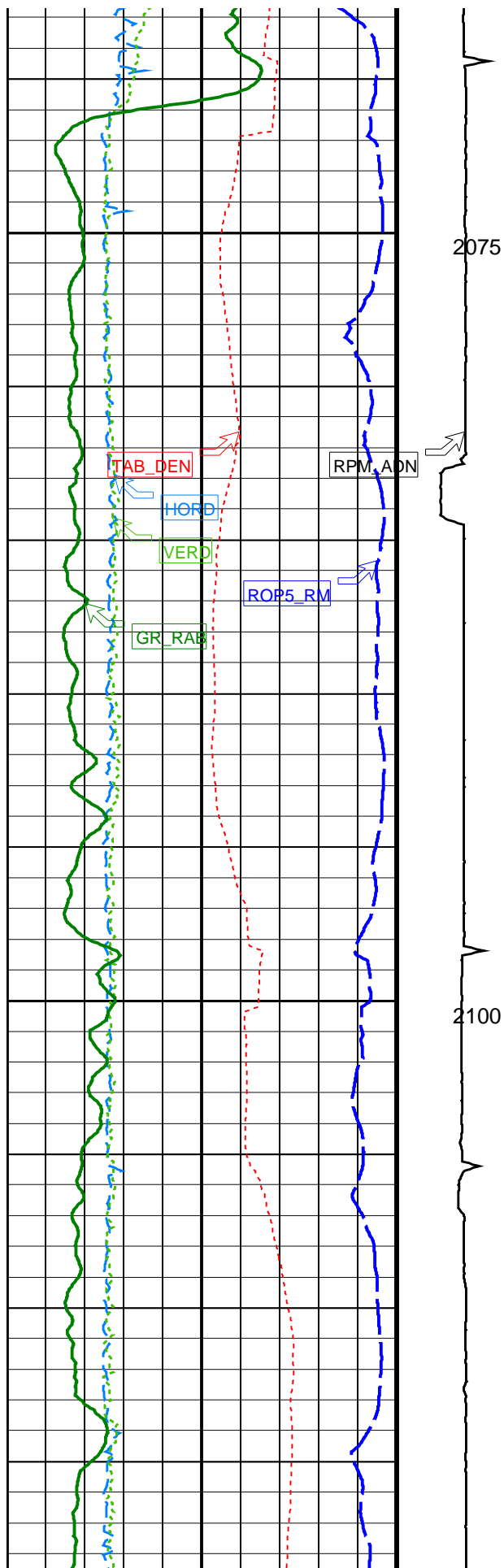
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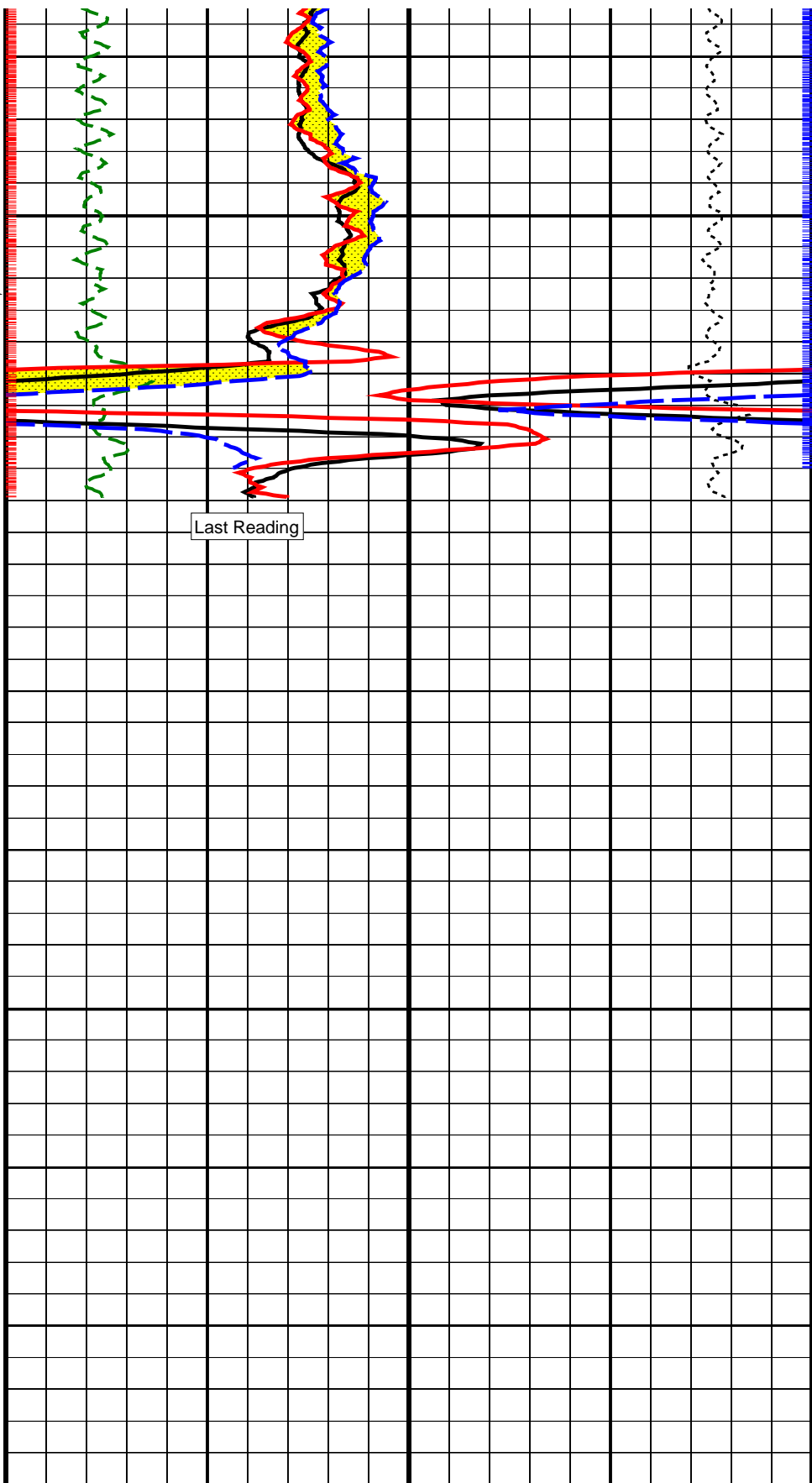
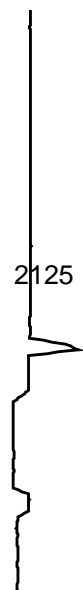
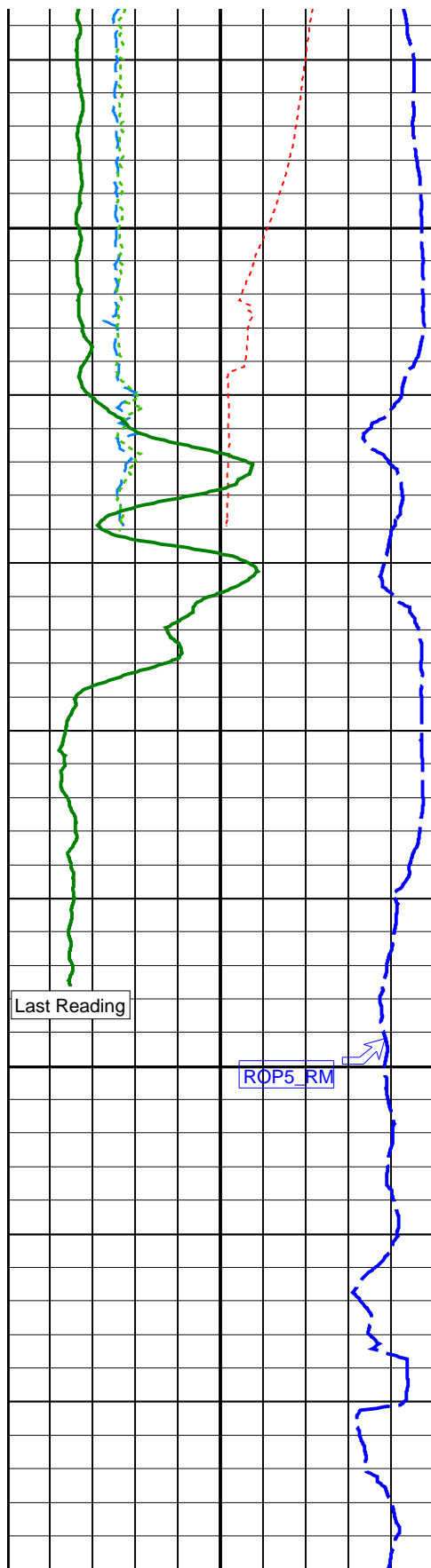












Density Time After Bit (TAB_DEN) (HR)	ADN Rotational Speed (RPM_ADN) (RPM)	Photoelectric Factor, Bottom (PEB) (-----)	Bulk Density Correction, Bottom (DRHB) (G/C3)
0	0	0	-0.75
10	10	10	0.25

	200	0	
<u>Horizontal Hole Diameter (HORD)</u> 6 (IN) 16		Bulk Density (RHOB) 1.85 (G/C3) 2.85	
<u>Vertical Hole Diameter (VERD)</u> 6 (IN) 16		Bulk Density, Bottom (ROBB) 1.85 (G/C3) 2.85	
<u>RAB Gamma Ray (GR_RAB)</u> 0 (GAPI) 200		<u>Thermal Neutron Porosity (TNPH)</u> 45 (PU) -15	
<u>Rate of Penetration, Averaged over Last 5ft (ROP5_RM)</u> 100 (M/HR) 0		Gas Area From ADN/ROBB/DEPTH to ADN/TNPH/DEPTH	

PIP SUMMARY		Neutron Samples
Density Samples		
IDEAL Version: ID9_1C_02		
IDF		

6.75-in. Azimuthal Density Neutron / Equipment Identification		
Primary Equipment:	ADN6 - CA	FE55
Tool Name and Serial Number	ADDC - AA	FE55
Collar Type and Serial Number	ADSE - EA	380
Chassis Type and Serial Number		
Neutron Logging Source	NSR - M	202
Density Logging Source	GSR - J/Z	1994
Stabilizer Size	8.25 - in.	
Calibration Status	Valid	

Master: 4-Jan-2005 21:40														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Magnesium Block														
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value	Phase	SS window 3 – Mg CPS			Value
Master	<div><div></div></div>			1041	Master	<div><div></div></div>			2505	Master	<div><div></div></div>			6228
	250.0	4125	8000		700.0	9350	18000		2500	23750	45000			
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			

Master: 4-Jan-2005 21:40														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Aluminum Block														
Phase	LS window 3 – Al CPS			Value	Phase	SS window 1 – Al CPS			Value	Phase	SS window 3 – Al CPS			Value
Master	<div><div></div></div>			156.5	Master	<div><div></div></div>			1275	Master	<div><div></div></div>			3922
	50.00	725.0	1400		500.0	4250	8000			1500	15750	30000		
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)		

Master: 4-Jan-2005 21:40														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Background														
Phase	LS window 3 – Background		CPS	Value	Phase	SS window 1 – Background		CPS	Value	Phase	SS window 3 – Background		CPS	Value
Master	<div><div></div></div>			51.03	Master	<div><div></div></div>			129.8	Master	<div><div></div></div>			563.0
	15.00	82.50	150.0		40.00	220.0	400.0			150.0	825.0	1500		
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)		

Master: 4-Jan-2005 21:40									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Water Block Check									
Phase	Long spacing water density G/C3			Value	Phase	Short spacing water density G/C3			Value
Master				1.029	Master				1.116

1.024 (Minimum)	1.039 (Nominal)	1.054 (Maximum)	1.096 (Minimum)	1.126 (Nominal)	1.156 (Maximum)
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Master: 4-Jan-2005 21:40					
6.75-in. Azimuthal Density Neutron Calibration					
Neutron: Water Tank					
Phase	Far 1 tube 1 gain	Value	Phase	Far 1 tube 1 offset CPS	Value
Master		1.068	Master		0.06511
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 1 tube 2 gain	Value	Phase	Far 1 tube 2 offset CPS	Value
Master		1.013	Master		-0.03114
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 1 tube 3 gain	Value	Phase	Far 1 tube 3 offset CPS	Value
Master		1.039	Master		0.01313
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 1 gain	Value	Phase	Far 2 tube 1 offset CPS	Value
Master		1.096	Master		0.07837
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 2 gain	Value	Phase	Far 2 tube 2 offset CPS	Value
Master		0.9974	Master		-0.1285
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 3 gain	Value	Phase	Far 2 tube 3 offset CPS	Value
Master		1.042	Master		0.1064
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Near 1 tube 1 gain	Value	Phase	Near 1 tube 1 offset CPS	Value
Master		0.9812	Master		-40.77
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-100.0 (Minimum)	0 (Nominal)	100.0 (Maximum)
Phase	Near 2 tube 1 gain	Value	Phase	Near 2 tube 1 offset CPS	Value
Master		0.9674	Master		-32.21
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-100.0 (Minimum)	0 (Nominal)	100.0 (Maximum)

Master: 4-Jan-2005 21:40		
6.75-in. Azimuthal Density Neutron Calibration		
Neutron: Water Block Check		
Phase	Far Neutron water porosity PU	Value
Master		103.2
90.00 (Minimum)	100.0 (Nominal)	125.0 (Maximum)













6.75-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:		
Tool Name and Serial Number	RAB6 – CA	191
Calibration Status	Valid	

Master: 28-Jan-2005 18:29

6.75-in. Resistivity At-the-Bit Calibration

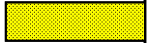
Resistivity: Fixture

Phase	Ring/T1 factor	Value	Phase	Ring/T2 factor	Value	Phase	M0/T1 factor	Value
Master		0.9967	Master		0.9942	Master		1.007
	0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)
		1.025 (Maximum)			1.025 (Maximum)			1.025 (Maximum)
Phase	M0/T2 factor	Value	Phase	M2/T1 factor	Value	Phase	M2/T2 factor	Value
Master		1.004	Master		1.007	Master		1.004
	0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)
		1.025 (Maximum)			1.025 (Maximum)			1.025 (Maximum)
Phase	BTN shallow/T1 factor	Value	Phase	BTN shallow/T2 factor	Value	Phase	BTN medium/T1 factor	Value
Master		1.003	Master		0.9999	Master		0.9950
	0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)
		1.025 (Maximum)			1.025 (Maximum)			1.025 (Maximum)
Phase	BTN medium/T2 factor	Value	Phase	BTN deep/T1 factor	Value	Phase	BTN deep/T2 factor	Value
Master		0.9919	Master		1.012	Master		1.009
	0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)		0.9750 (Minimum)	1.000 (Nominal)
		1.025 (Maximum)			1.025 (Maximum)			1.025 (Maximum)

Master: 28-Jan-2005 18:29

6.75-in. Resistivity At-the-Bit Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor	Value
Master		0.9256
	0.7500 (Minimum)	1.000 (Nominal)
		1.250 (Maximum)

SCHLUMBERGER

Survey report

8-Mar-2005 04:40:23

Page 1 of 4

Client..... ESSO
Field..... Barracouta

Well..... BTA-A4A-ST
API number.....
Engineer..... K.Handley, M.Y.Tan, R.Burns

Rig:..... ENSCO 102
STATE:..... Victoria

Spud date..... 24-Feb-05
Last survey date..... 08-Mar-05
Total accepted surveys... 65
MD of first survey..... 344.00 m
MD of last survey..... 2165.00 m

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

----- Depth reference -----
Permanent datum..... Mean Sea Level
Depth reference..... Driller's Depth
GL above permanent..... -45.70 m
KB above permanent..... Top Drive
DF above permanent..... 56.00 m

----- Vertical section origin-----
Latitude (+N/S-)..... 0.85 m
Departure (+E/W-)..... 8.53 m

----- Platform reference point-----
Latitude (+N/S-)..... -304.57 m
Departure (+E/W-)..... -304.57 m

Azimuth from Vsect Origin to target: 76.22 degrees

----- Geomagnetic data -----
Magnetic model..... BGGM version 2004
Magnetic date..... 22-Feb-2005
Magnetic field strength... 1201.43 HCNT
Magnetic dec (+E/W-)..... 12.97 degrees
Magnetic dip..... -68.87 degrees

----- MWD survey Reference Criteria -----
Reference G..... 1000.03 mGal
Reference H..... 1201.43 HCNT
Reference Dip..... -68.87 degrees
Tolerance of G..... (+/-) 2.50 mGal
Tolerance of H..... (+/-) 6.00 HCNT
Tolerance of Dip..... (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-)..... 12.97 degrees
Grid convergence (+E/W-).. -0.42 degrees
Total az corr (+E/W-)..... 13.39 degrees
(Total az corr = magnetic dec - grid conv)

Survey Correction Type ...
I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=Shell Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/D/M)	Srvy tool type	Tool Corr (deg)
1	344.00	0.25	235.37	0.00	343.99	0.73	0.55	9.36	9.38	86.64	0.00	TIP	None
2	351.60	3.14	130.65	7.60	351.59	0.84	0.40	9.50	9.51	87.56	0.42	GYR	None
3	371.56	6.26	115.73	19.96	371.48	2.00	-0.42	10.90	10.91	92.23	0.17	MWD	None
4	400.60	10.44	98.23	29.04	400.21	5.66	-1.49	14.93	15.01	95.69	0.17	GYR	None
5	430.00	13.39	92.42	29.40	428.97	11.40	-2.01	20.97	21.07	95.48	0.11	MWD	None
6	458.41	16.35	82.38	28.41	456.43	18.54	-1.62	28.22	28.27	93.29	0.14	MWD	None
7	487.44	19.21	75.25	29.03	484.08	27.38	0.14	36.90	36.90	89.79	0.12	MWD	None
8	516.58	22.78	75.14	29.14	511.28	37.82	2.80	46.99	47.07	86.58	0.12	MWD	None
9	545.52	27.31	73.86	28.94	537.49	50.06	6.09	58.79	59.10	84.09	0.16	MWD	None
10	574.63	31.33	72.34	29.11	562.87	64.29	10.24	72.42	73.14	81.95	0.14	MWD	None
11	603.86	34.81	75.42	29.23	587.36	80.22	14.65	87.74	88.95	80.52	0.13	MWD	None
12	632.38	38.27	75.46	28.52	610.27	97.19	18.92	104.17	105.88	79.71	0.12	MWD	None
13	661.80	41.30	75.07	29.42	632.87	116.01	23.71	122.38	124.65	79.04	0.10	MWD	None
14	691.10	45.16	74.90	29.30	654.22	136.07	28.91	141.76	144.67	78.47	0.13	MWD	None
15	719.99	48.91	74.32	28.89	673.90	157.20	34.52	162.13	165.77	77.98	0.13	MWD	None
16	749.12	52.83	74.48	29.13	692.28	179.78	40.59	183.89	188.32	77.55	0.13	MWD	None
17	778.33	56.53	75.07	29.21	709.17	203.61	46.85	206.89	212.13	77.24	0.13	MWD	None
18	806.73	58.42	75.06	28.40	724.44	227.54	53.02	230.02	236.05	77.02	0.07	MWD	None
19	826.51	60.05	75.43	19.78	734.56	244.54	57.35	246.46	253.04	76.90	0.08	MWD	None
20	857.08	60.11	75.02	30.57	749.80	271.03	64.11	272.08	279.53	76.74	0.01	MWD	None
21	885.76	61.34	74.96	28.68	763.83	296.04	70.58	296.24	304.53	76.60	0.04	MWD	None
22	914.88	60.95	74.82	29.12	777.88	321.54	77.23	320.86	330.03	76.47	0.01	MWD	None
23	943.53	60.68	75.21	28.65	791.85	346.55	83.70	345.03	355.03	76.36	0.02	MWD	None
24	972.56	59.77	76.43	29.03	806.27	371.74	89.87	369.45	380.23	76.33	0.05	MWD	None
25	1001.50	59.54	77.10	28.94	820.89	396.72	95.59	393.77	405.20	76.35	0.02	MWD	None
26	1030.64	59.11	76.93	29.14	835.76	421.78	101.22	418.19	430.26	76.39	0.02	MWD	None
27	1059.78	57.85	76.77	29.14	850.99	446.61	106.87	442.38	455.10	76.42	0.04	MWD	None
28	1089.10	58.34	76.70	29.32	866.49	471.50	112.59	466.60	479.99	76.43	0.02	MWD	None
29	1118.03	59.62	78.08	28.93	881.39	496.29	118.00	490.80	504.78	76.48	0.06	MWD	None
30	1147.18	61.65	77.56	29.15	895.69	521.68	123.36	515.63	530.18	76.55	0.07	MWD	None

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/D/M)	Srvy tool type	Tool Corr (deg)
31	1176.44	62.74	77.42	29.26	909.34	547.56	128.96	540.89	556.06	76.59	0.04	MWD	None
32	1205.78	63.29	77.18	29.34	922.65	573.70	134.71	566.40	582.20	76.62	0.02	MWD	None
33	1234.53	63.22	77.02	28.75	935.59	599.37	140.44	591.43	607.87	76.64	0.01	MWD	None
34	1263.41	63.32	74.80	28.88	948.58	625.16	146.72	616.44	633.66	76.61	0.07	MWD	None
35	1292.28	62.74	73.74	28.87	961.67	650.88	153.70	641.21	659.37	76.52	0.04	MWD	None
36	1321.68	61.29	72.83	29.40	975.47	676.80	161.16	666.07	685.29	76.40	0.06	MWD	None
37	1350.51	60.59	72.52	28.83	989.47	701.95	168.67	690.13	710.44	76.27	0.03	MWD	None
38	1379.66	60.36	72.02	29.15	1003.84	727.26	176.39	714.29	735.75	76.13	0.02	MWD	None
39	1408.57	60.11	72.24	28.91	1018.19	752.29	184.09	738.18	760.78	76.00	0.01	MWD	None
40	1437.70	60.53	73.72	29.13	1032.61	777.56	191.50	762.37	786.06	75.90	0.05	MWD	None
41	1466.67	60.32	73.21	28.97	1046.91	802.72	198.67	786.53	811.23	75.82	0.02	MWD	None
42	1494.99	59.98	74.68	28.32	1061.01	827.27	205.46	810.13	835.78	75.77	0.05	MWD	None
43	1524.16	60.08	76.01	29.17	1075.58	852.53	211.85	834.58	861.05	75.76	0.04	MWD	None
44	1553.56	60.34	75.95	29.40	1090.19	878.05	218.04	859.33	886.56	75.76	0.01	MWD	None
45	1582.31	59.93	76.35	28.75	1104.50	902.98	224.00	883.54	911.49	75.77	0.02	MWD	None
46	1611.11	60.27	75.83	28.80	1118.86	927.95	230.01	907.77	936.46	75.78	0.02	MWD	None
47	1640.37	60.83	76.43	29.26	1133.25	953.42	236.11	932.51	961.94	75.79	0.03	MWD	None
48	1669.37	61.92	76.44	29.00	1147.14	978.88	242.08	957.25	987.39	75.81	0.04	MWD	None
49	1697.95	61.74	77.55	28.58	1160.63	1004.07	247.75	981.80	1012.58	75.84	0.03	MWD	None
50	1727.34	61.10	76.95	29.39	1174.69	1029.88	253.45	1006.98	1038.38	75.87	0.03	MWD	None
51	1756.52	60.74	76.03	29.18	1188.87	1055.38	259.41	1031.77	1063.88	75.89	0.03	MWD	None
52	1785.84	61.68	75.81	29.32	1202.99	1081.07	265.66	1056.69	1089.58	75.89	0.03	MWD	None
53	1814.73	60.60	74.63	28.89	1216.94	1106.37	272.11	1081.16	1114.88	75.87	0.05	MWD	None
54	1843.93	59.17	75.44	29.20	1231.59	1131.62	278.63	1105.56	1140.13	75.85	0.05	MWD	None
55	1873.01	60.22	75.24	29.08	1246.26	1156.72	284.99	1129.85	1165.24	75.84	0.04	MWD	None
56	1901.51	60.30	75.12	28.50	1260.40	1181.47	291.32	1153.77	1189.98	75.83	0.00	MWD	None
57	1930.45	57.71	75.01	28.94	1275.30	1206.27	297.71	1177.74	1214.78	75.81	0.09	MWD	None
58	1959.57	61.45	74.05	29.12	1290.04	1231.36	304.41	1201.93	1239.88	75.79	0.13	MWD	None
59	1988.76	61.26	74.58	29.19	1304.04	1256.96	311.34	1226.60	1265.49	75.76	0.02	MWD	None
60	2016.21	59.94	74.18	27.45	1317.51	1280.87	317.78	1249.63	1289.40	75.73	0.05	MWD	None

Seq #	Measured depth	Incl angle	Azimuth angle	Course length	TVD depth	Vertical section	Displ +N/S-	Displ +E/W-	Total displ	At Azim	DLS (deg/	Srvy tool	Tool Corr
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-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	D/M	type	(deg)
===	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
61	2047.03	60.93	73.76	30.82	1332.72	1307.65	325.18	1275.39	1316.19	75.70	0.03	MWD	None
62	2075.72	59.49	73.40	28.69	1346.97	1332.52	332.22	1299.28	1341.08	75.66	0.05	MWD	None
63	2104.69	60.28	74.27	28.97	1361.51	1357.56	339.19	1323.34	1366.12	75.62	0.04	MWD	None
64	2133.61	61.55	74.59	28.92	1375.57	1382.82	345.98	1347.69	1391.39	75.60	0.04	MWD	None
65	2165.00	62.93	74.93	31.39	1390.19	1410.59	353.28	1374.49	1419.16	75.59	0.04	Projection to TD	

[(c)2005 IDEAL ID9_1C_02]

Company: **ESSO Australia Pty. Ltd.**

Schlumberger

Well: **BTA-A4A-ST**

Field: **Barracouta**

Rig: **ENSCO 102**

8.5 in. Section

State: **Victoria**

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