

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

Type		KCL/PHPA/Glycol	KCL/PHPA/Glycol								
Mud weight	ppg	10.0	10.0								
Solids	%	7.1	7.1								
Chlorides	mg/L	31000	31000								
Rm	ohm.m@°C	0.14@24.1	0.14@24.1								
Rmf	ohm.m@°C	0.12@23.5	0.12@23.5								
Rmc	ohm.m@°C	0.23@24.5	0.23@24.5								
Potassium	%	6.0	6.0								
<b>Environmental data</b>											
<b>GR</b>											
Mud weight	ppg	10.0	10.0								
Bit size	in.	8.5	8.5								
<b>Resistivity</b>											
<b>Neutron porosity</b>											
Hole Size	in.	8.5	8.5								
Mud weight	ppg	10.0	10.0								
Temperature	°C	70.6	70.6								
Mud salinity	ppm	45746	45746								
Formation salinity											
Recording rate 1	SEC	10 sec.	10 sec.								
Recording rate 2	SEC	10 sec.	10 sec.								
Filtering GR		3 pt.	3 pt.								
Filtering density		3 pt.	3 pt.								
Filtering Neutron		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

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OTHER SERVICES FOR RUN2 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN3 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN
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

sliding intervals.

PEF readings were affected by the presence of Barite in the mud system.

Data density compromised at high ROP.

POOH due to drill plug.

Barite in the mud system.

POOH to change BHA.

EQUIPMENT DESCRIPTION

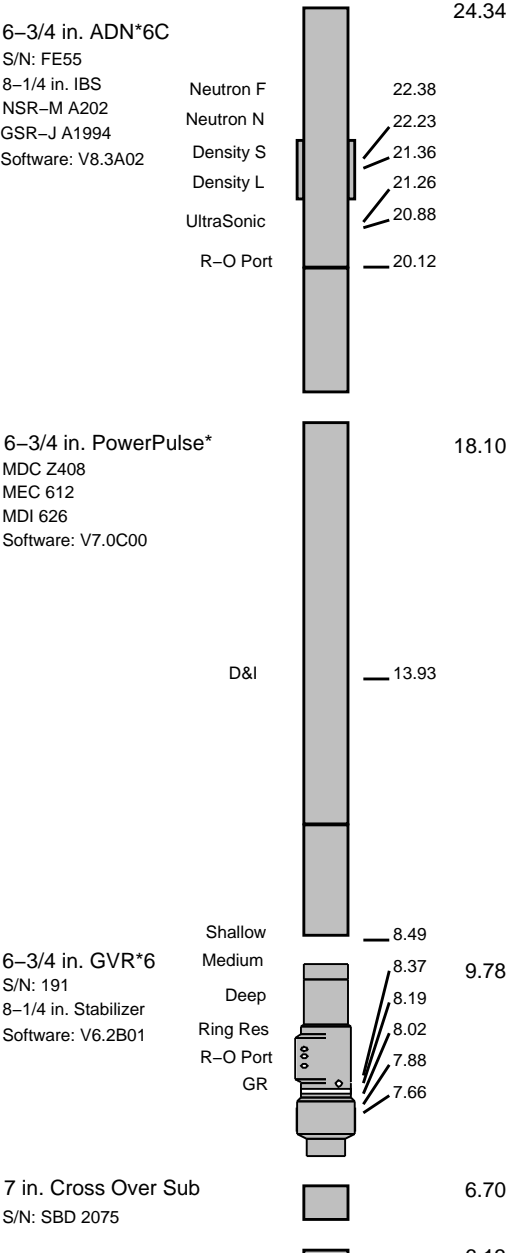
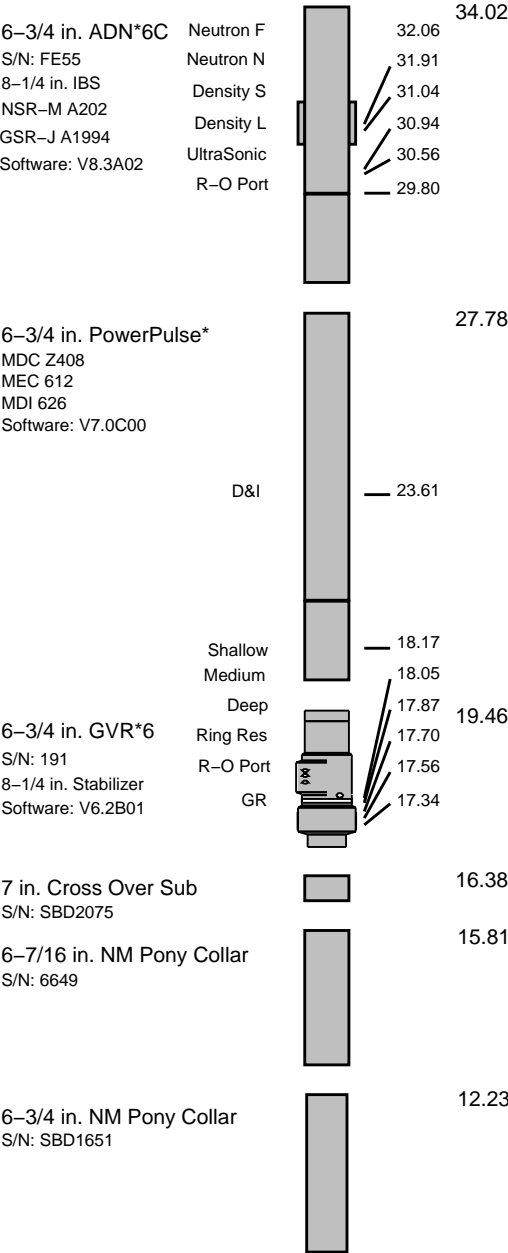
RUN2




RUN3

RUN

DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT



<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: SBD1651</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>9.18</p> <p>3.08</p> <p>1.22</p> <p>0.30</p>
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## IDEAL Version: ID8\_0C\_07

IDF

Format: GeoVISION Service Log

Vertical Scale: 1:200

Graphics File Created: 07-Mar-2005 12:13

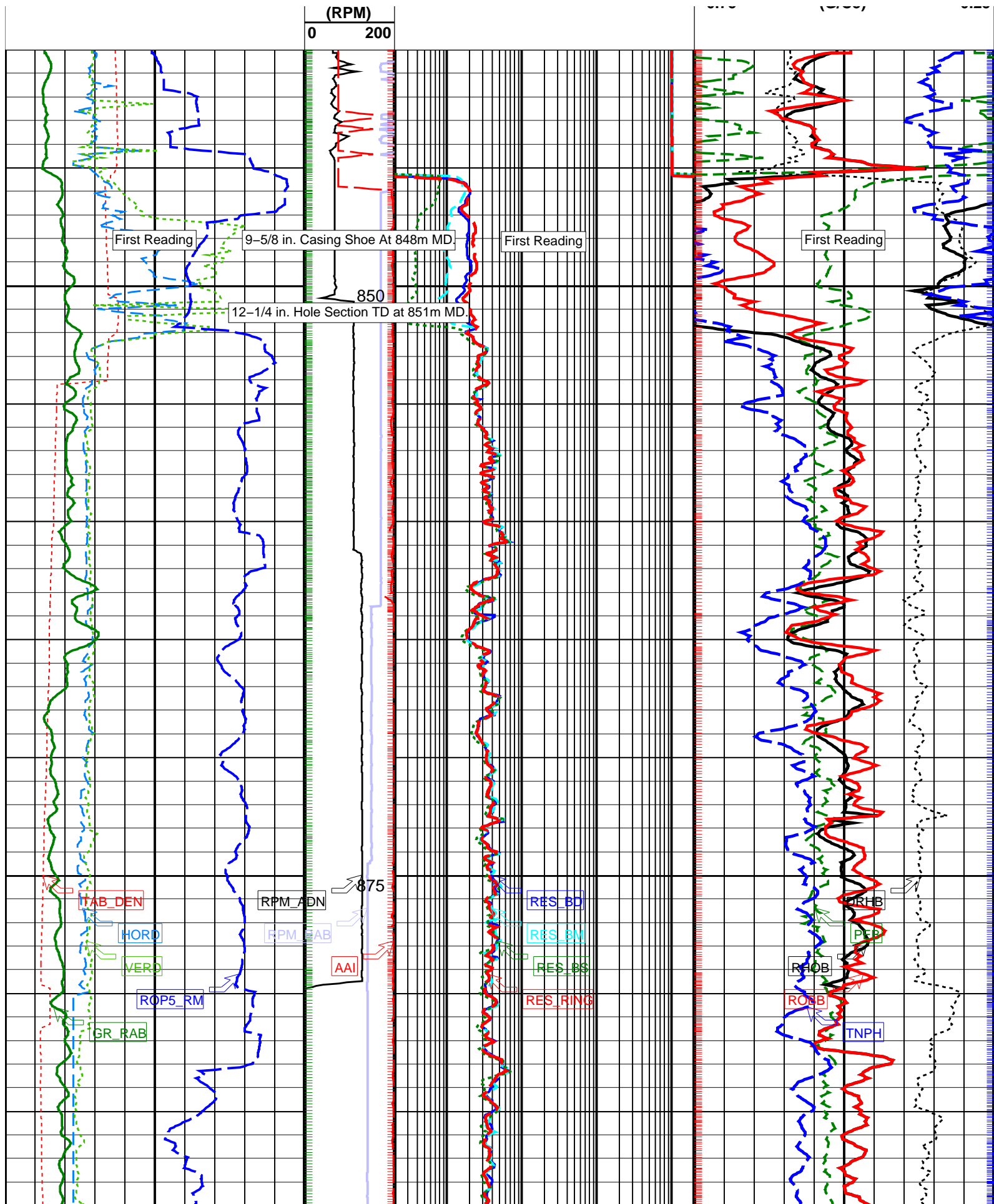
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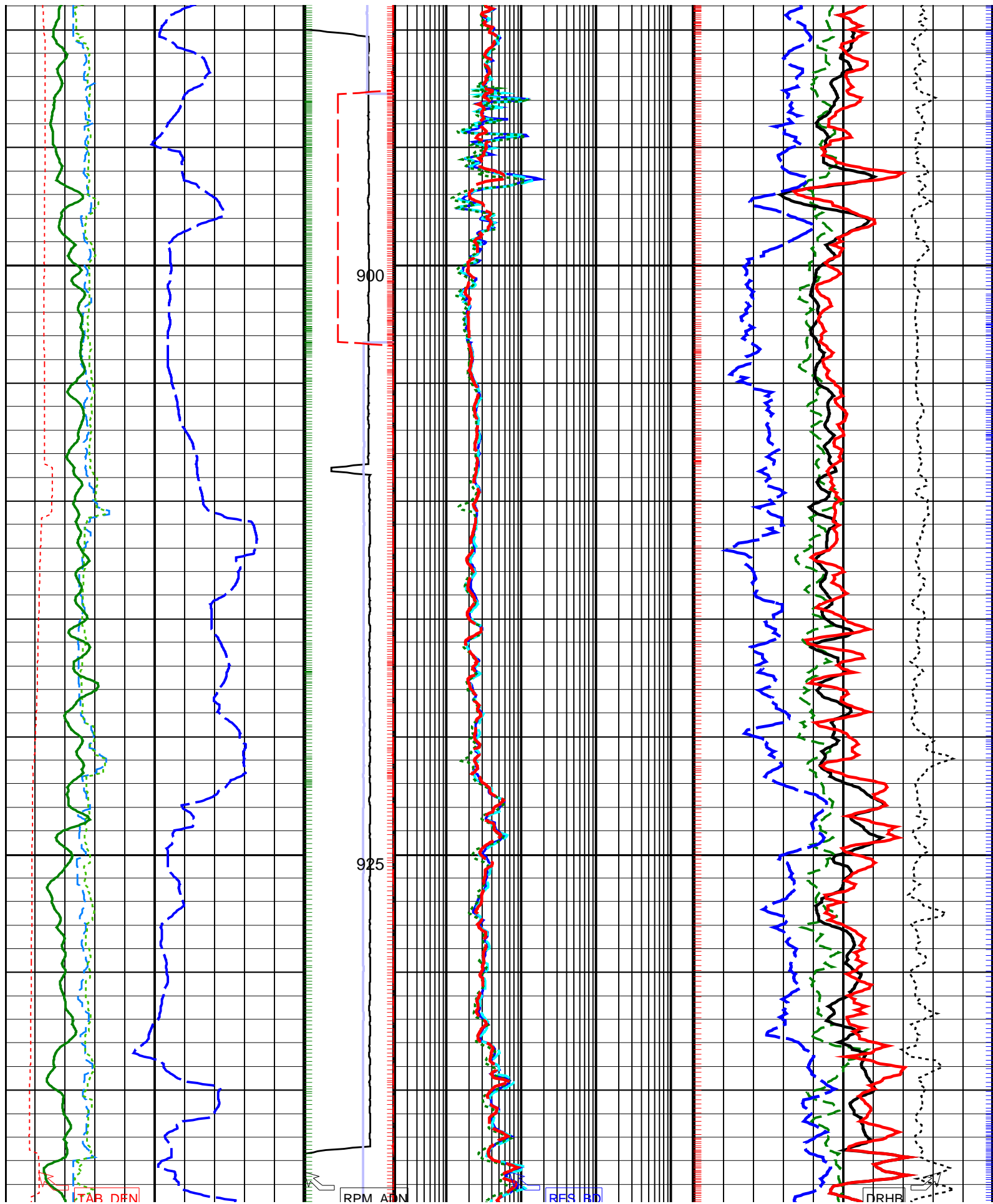
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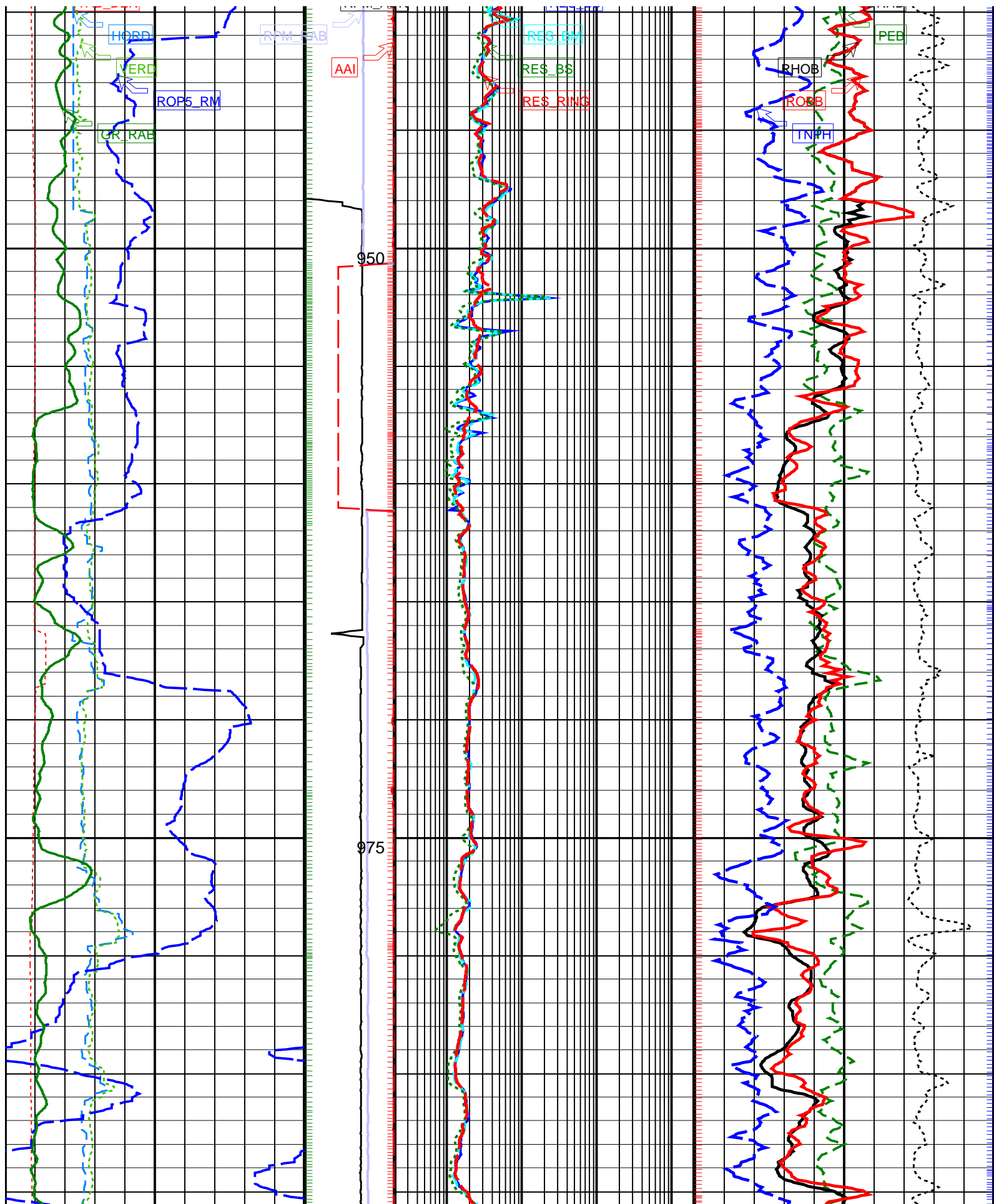
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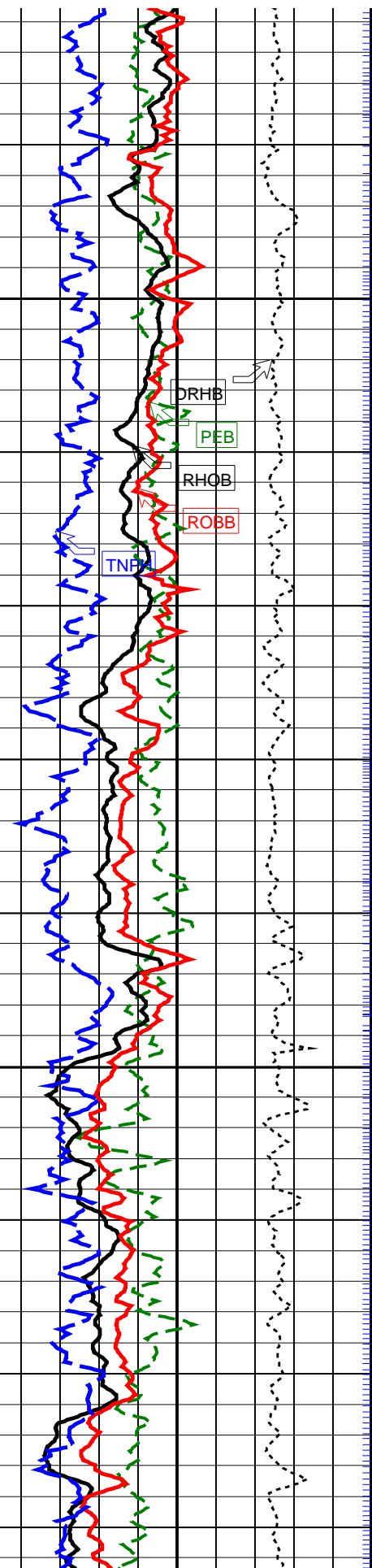
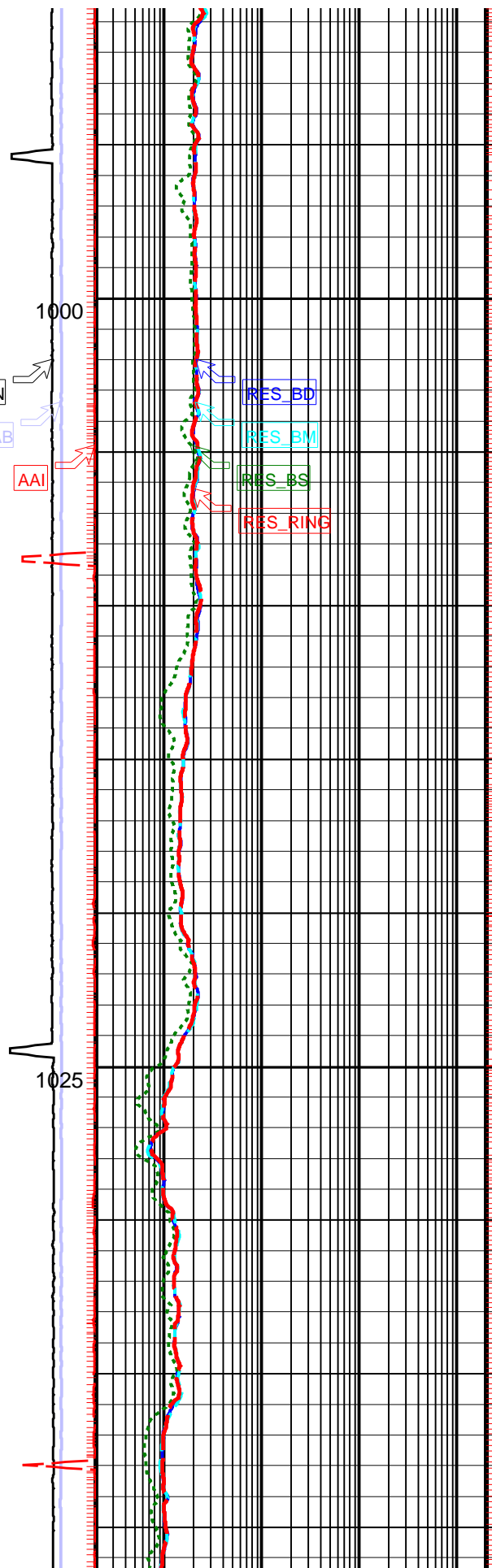
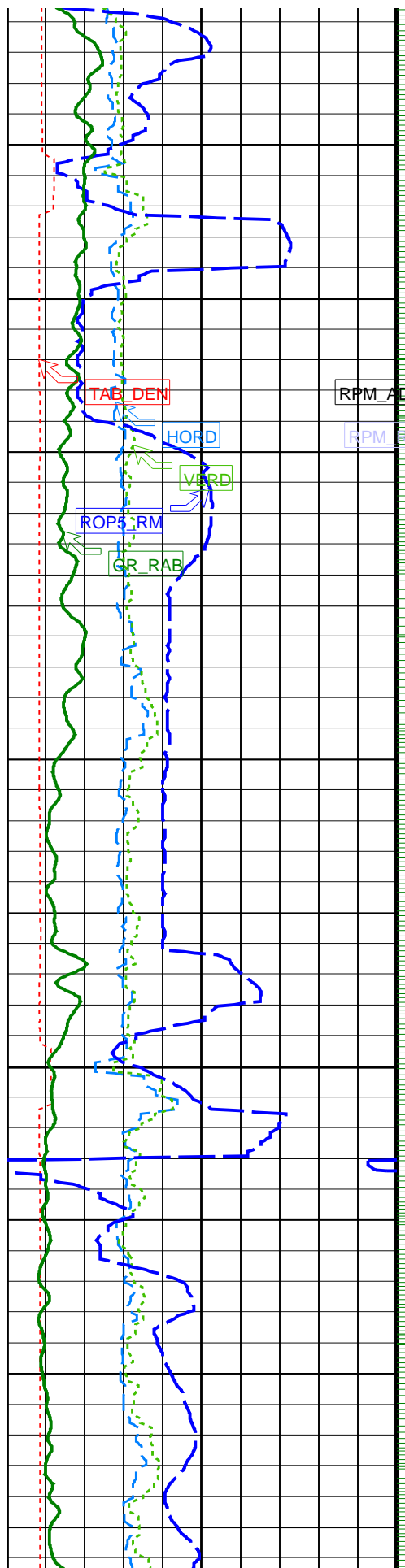
+ Gamma Ray Samples  
+ Ring Samples

			Gas Area From ADN/ROBB/DEPTH to ADN/TNPH/DEPTH	
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 100 (M/HR) 0			Thermal Neutron Porosity (TNPH) 45 (PU) -15	
RAB Gamma Ray (GR_RAB) 0 (GAPI) 200			Ring Resistivity (RES_RING) 0.2 (OHMM) 2000	
Bulk Density, Bottom (ROBB) 1.85 (G/C3) 2.85			Bulk Density (RHOB) 1.85 (G/C3) 2.85	
Vertical Hole Diameter (VERD) 6 (IN) 16			Shallow Button Resistivity (RES_BS) 0.2 (OHMM) 2000	
Horizontal Hole Diameter (HORD) 6 (IN) 16			Medium Button Resistivity (RES_BM) 0.2 (OHMM) 2000	
Photoelectric Factor, Bottom (PEB) 0 (----) 10			Bulk Density Correction, Bottom (DRHB) -0.75 (G/C3) 0.25	
Density Time After Bit (TAB_DEN) 0 (HR) 10			Deep Button Resistivity (RES_BD) 0.2 (OHMM) 2000	

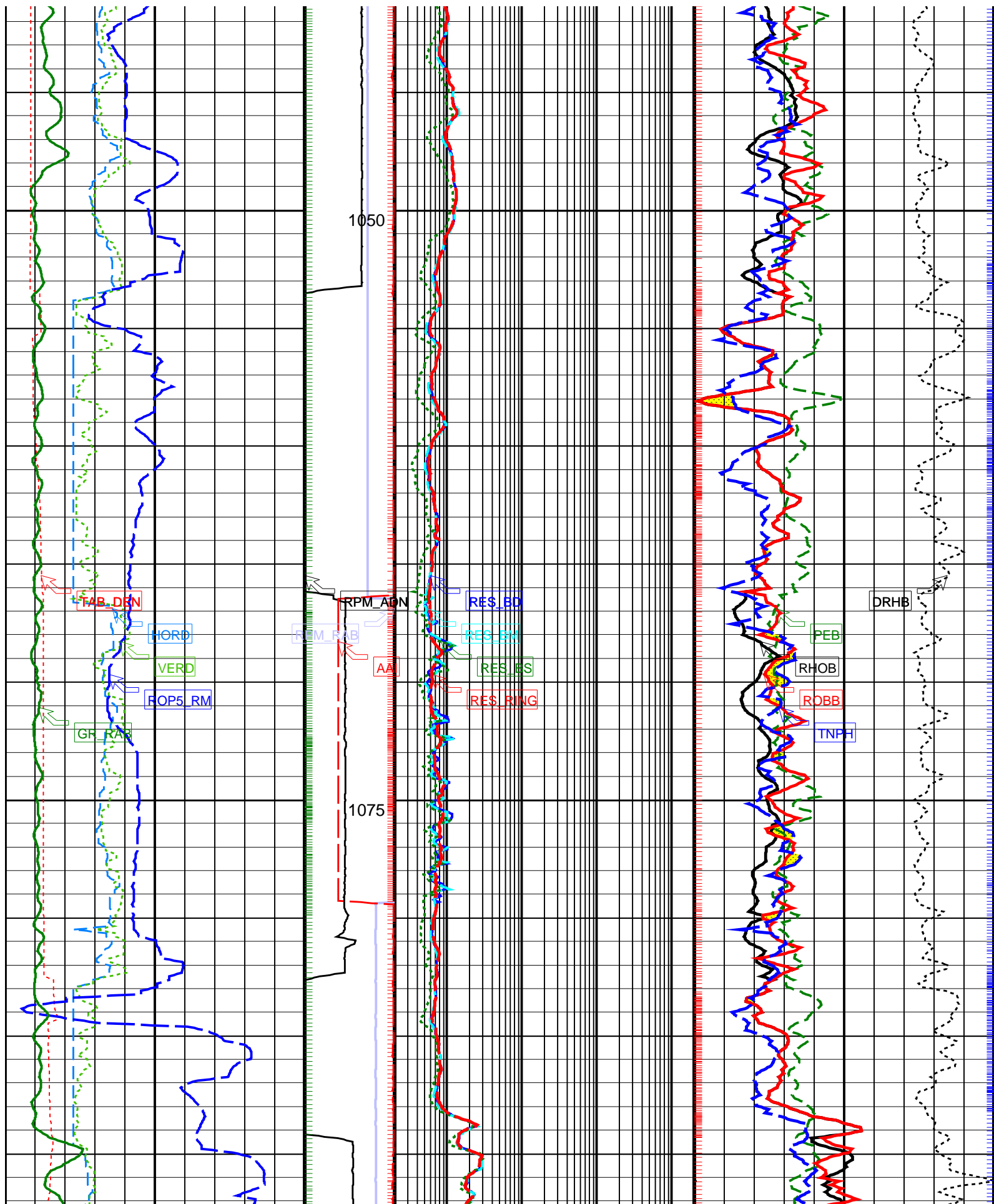


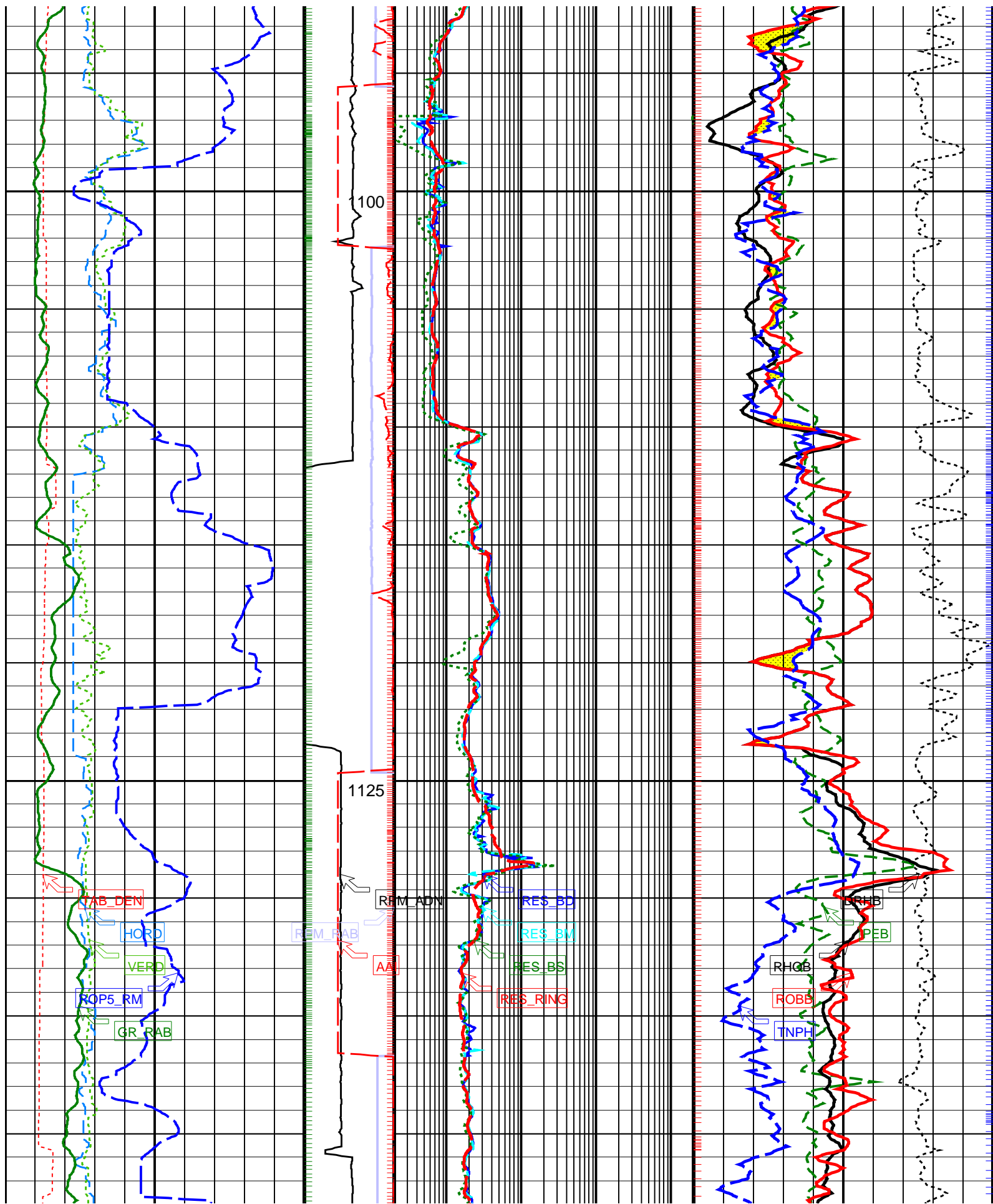


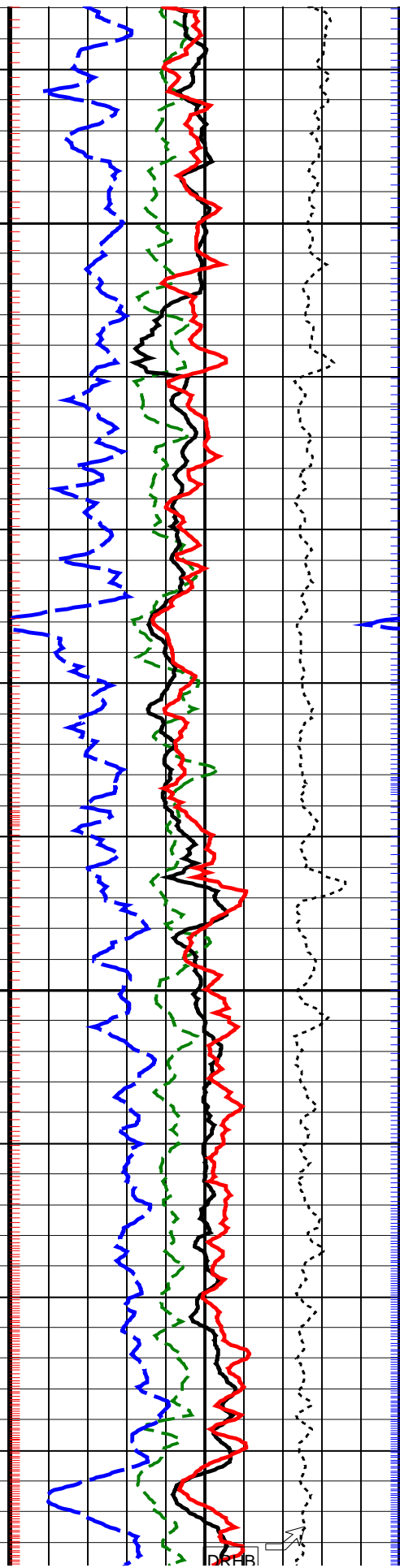
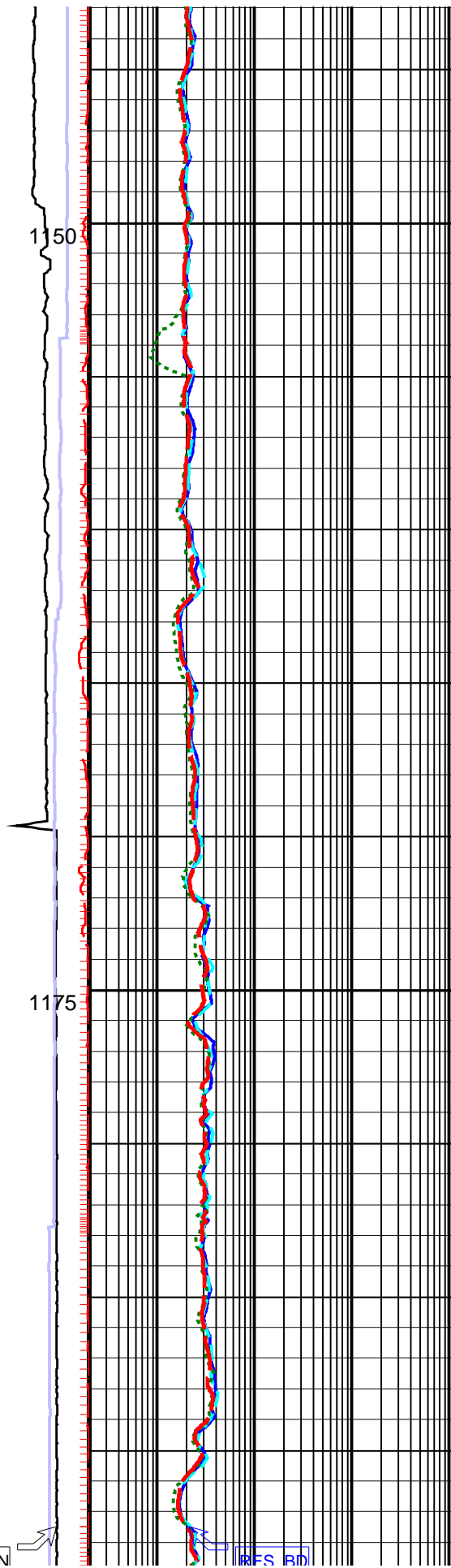
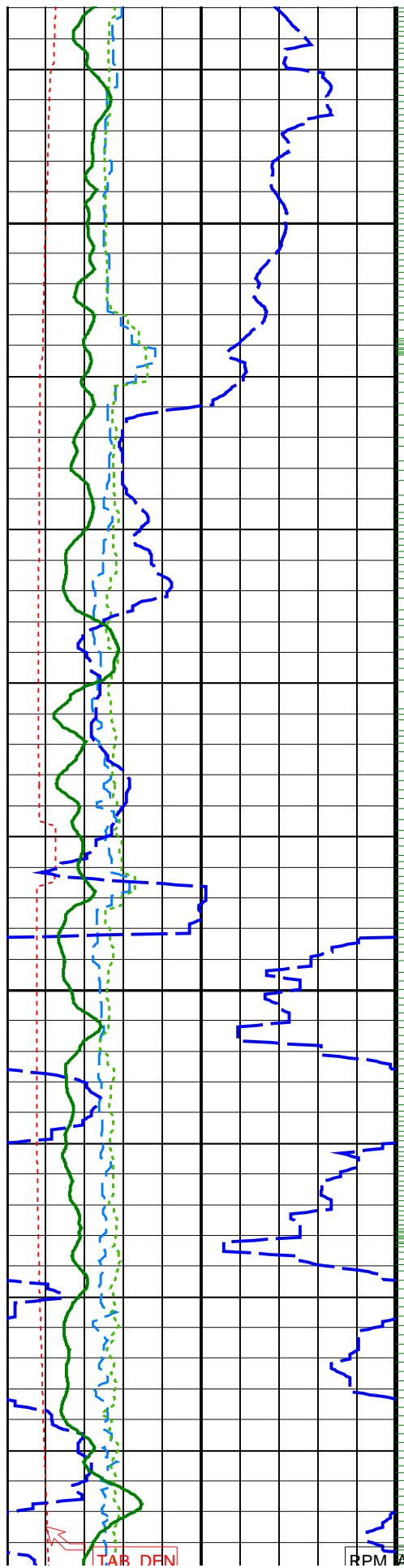


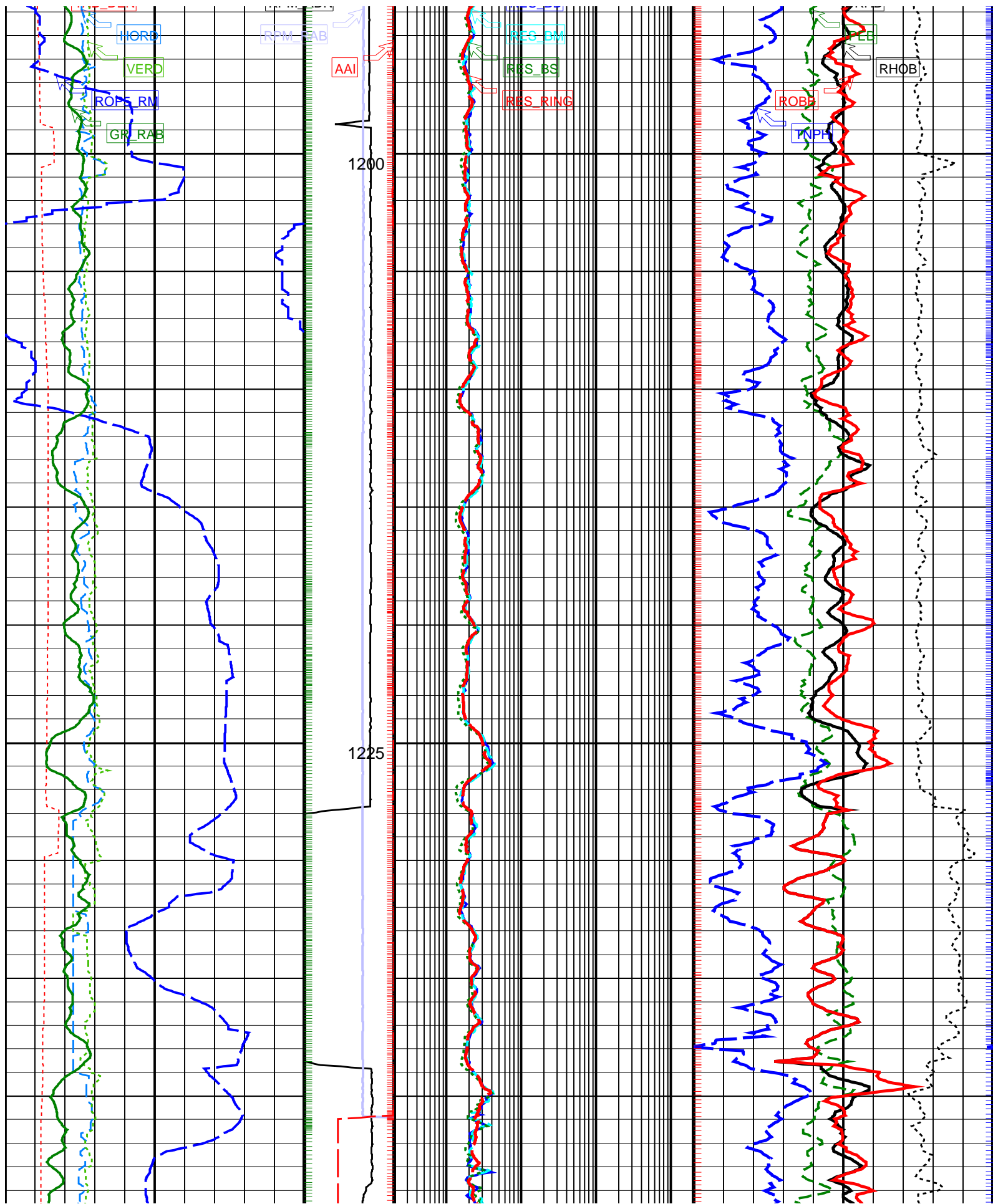


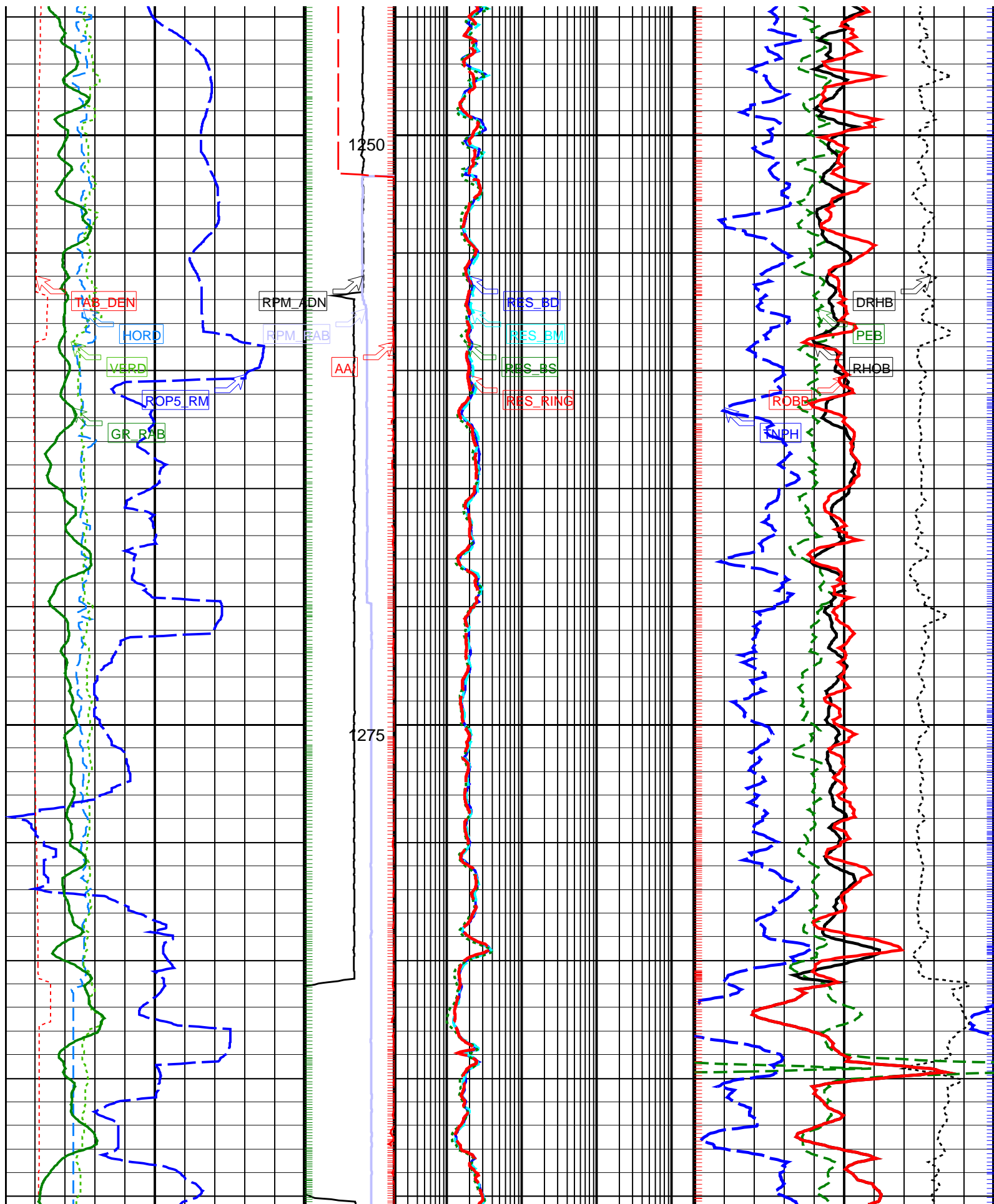


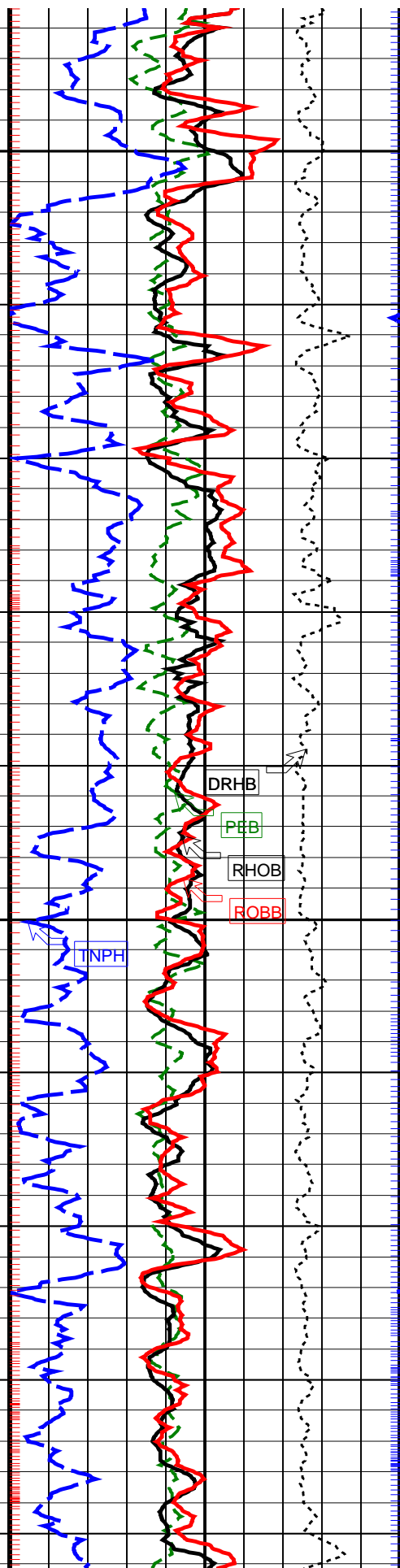
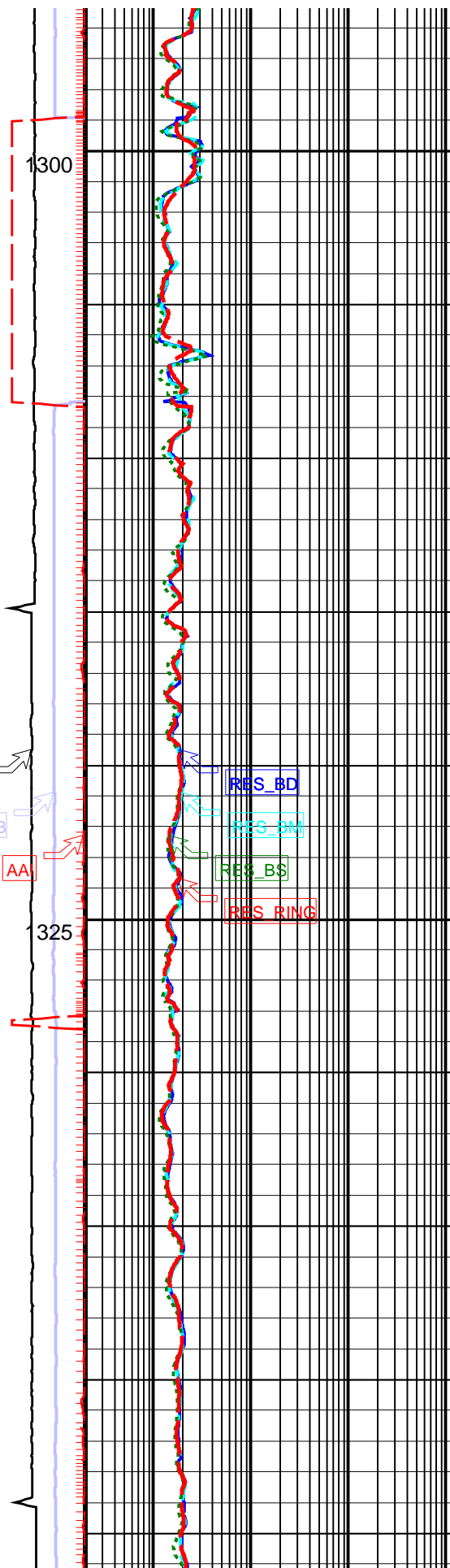
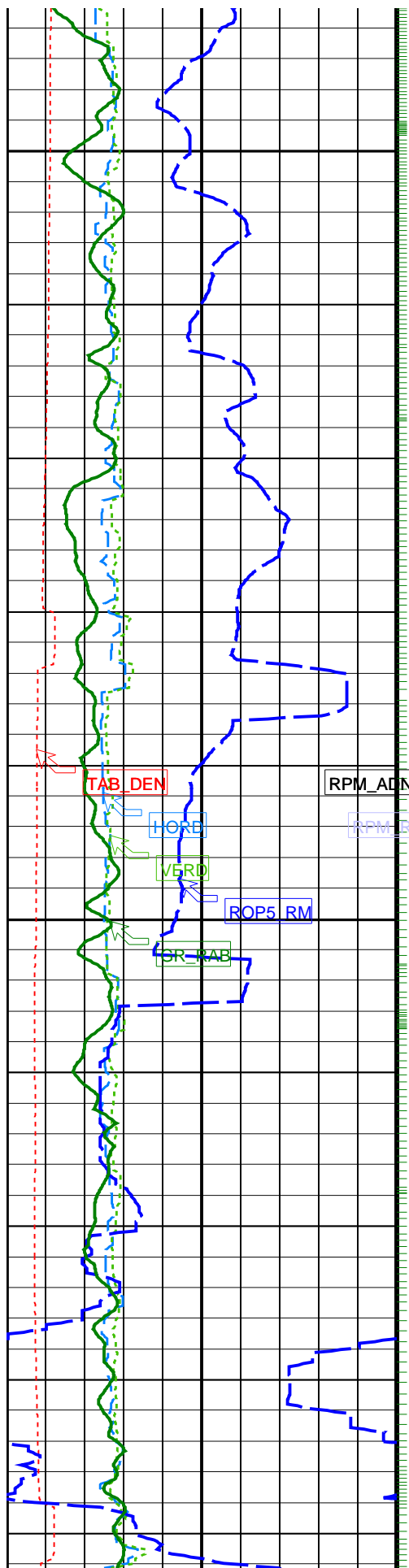


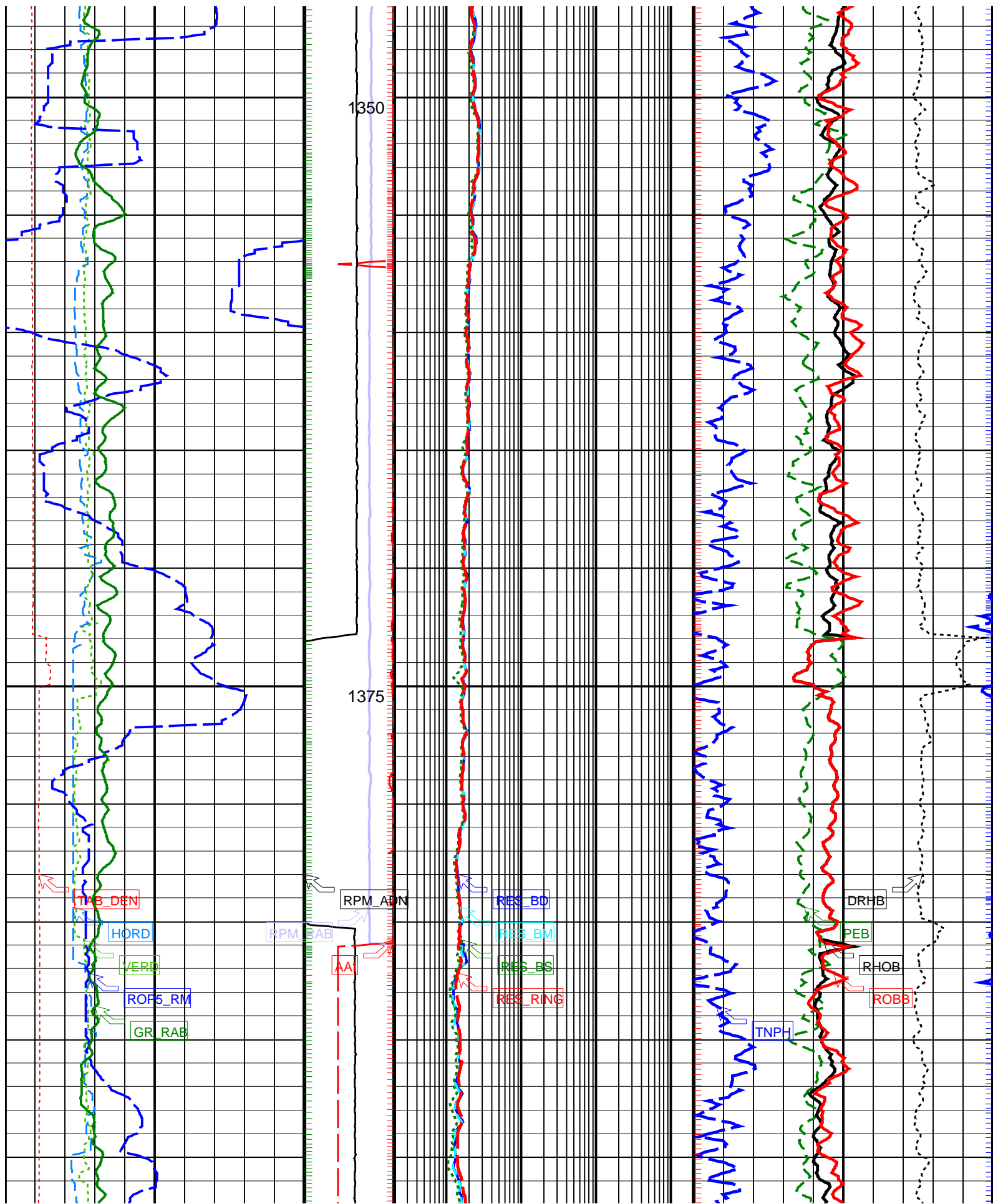


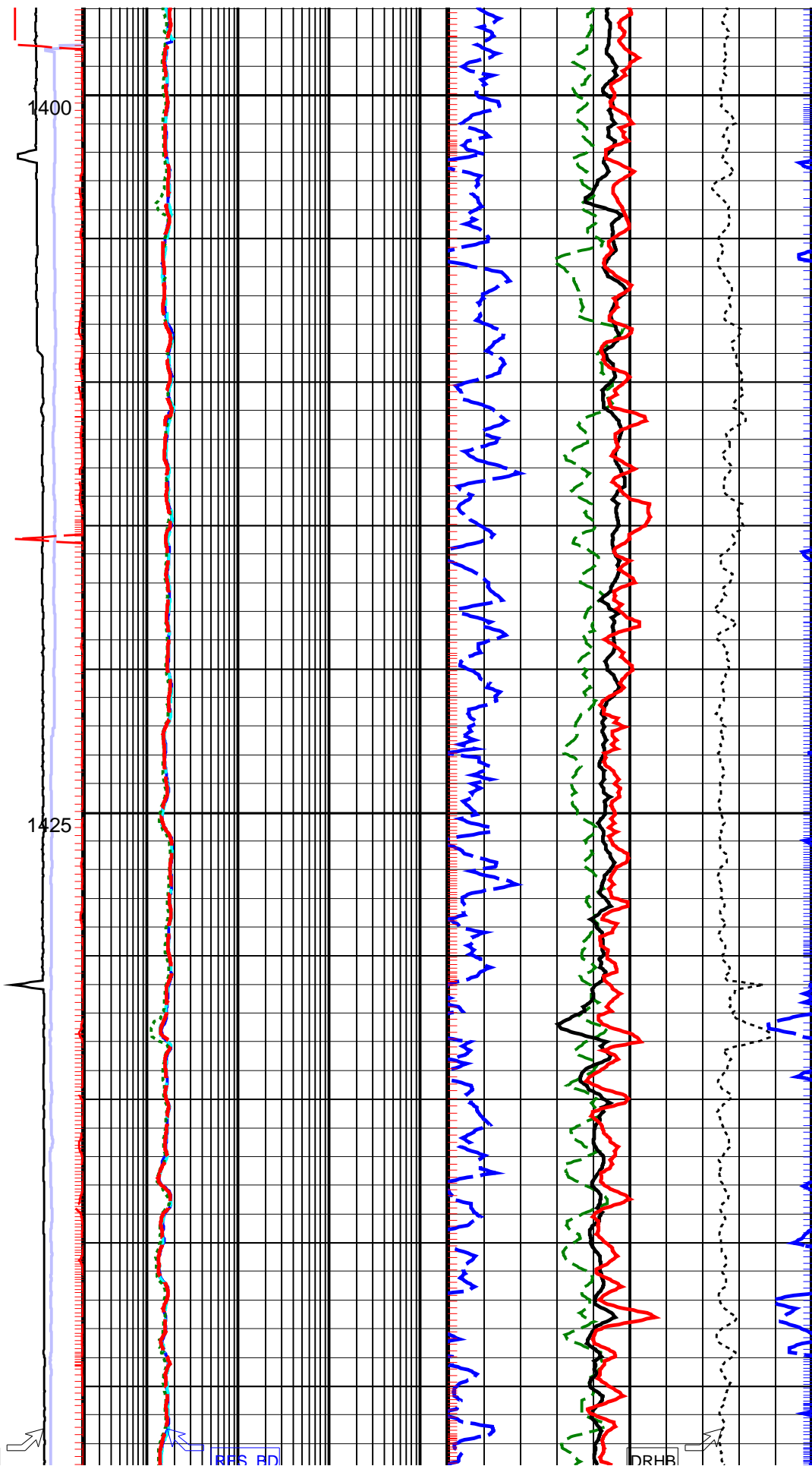
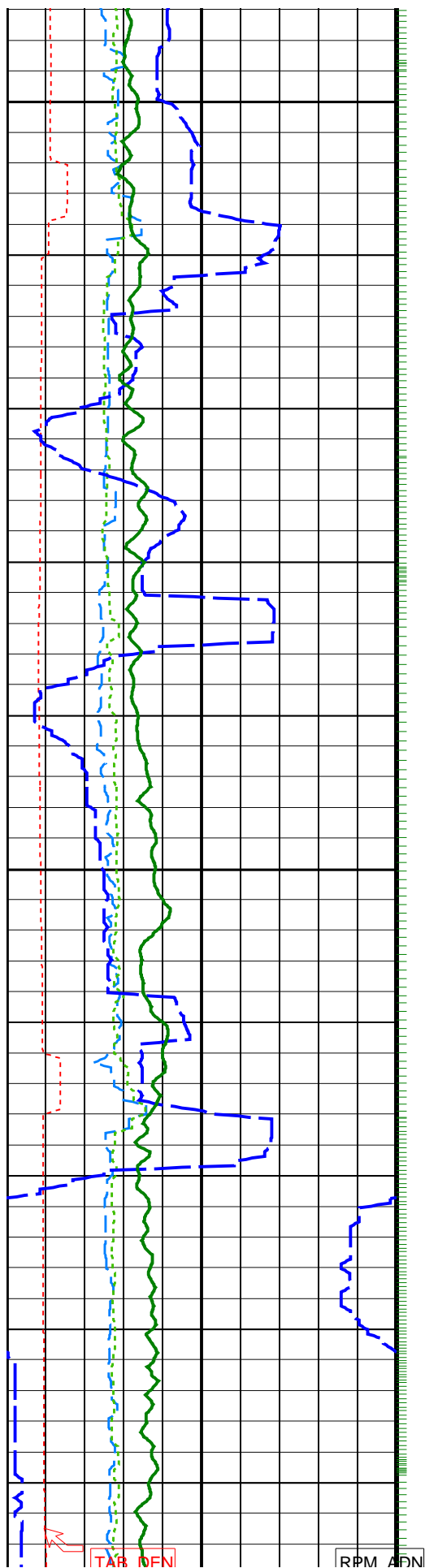




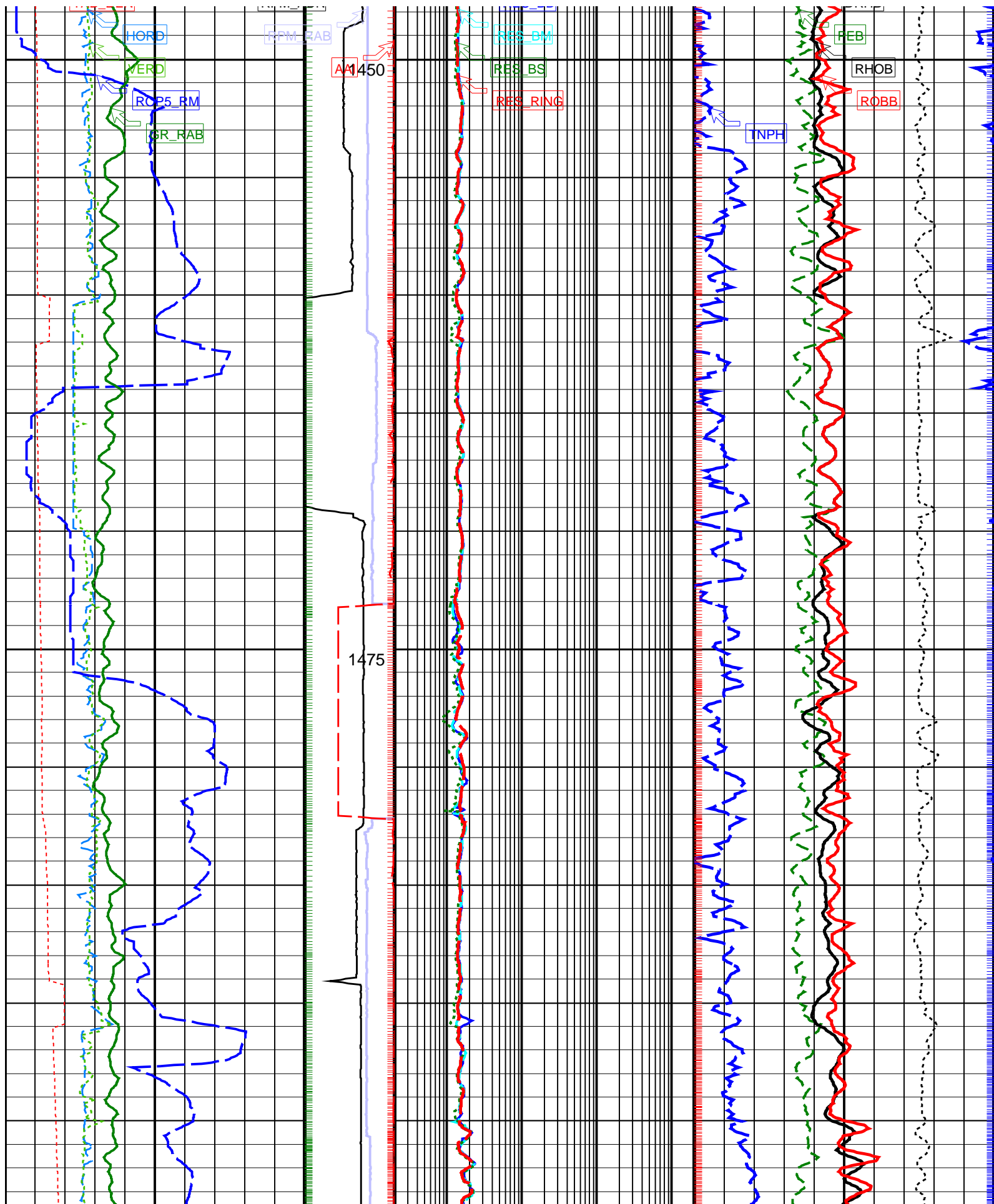


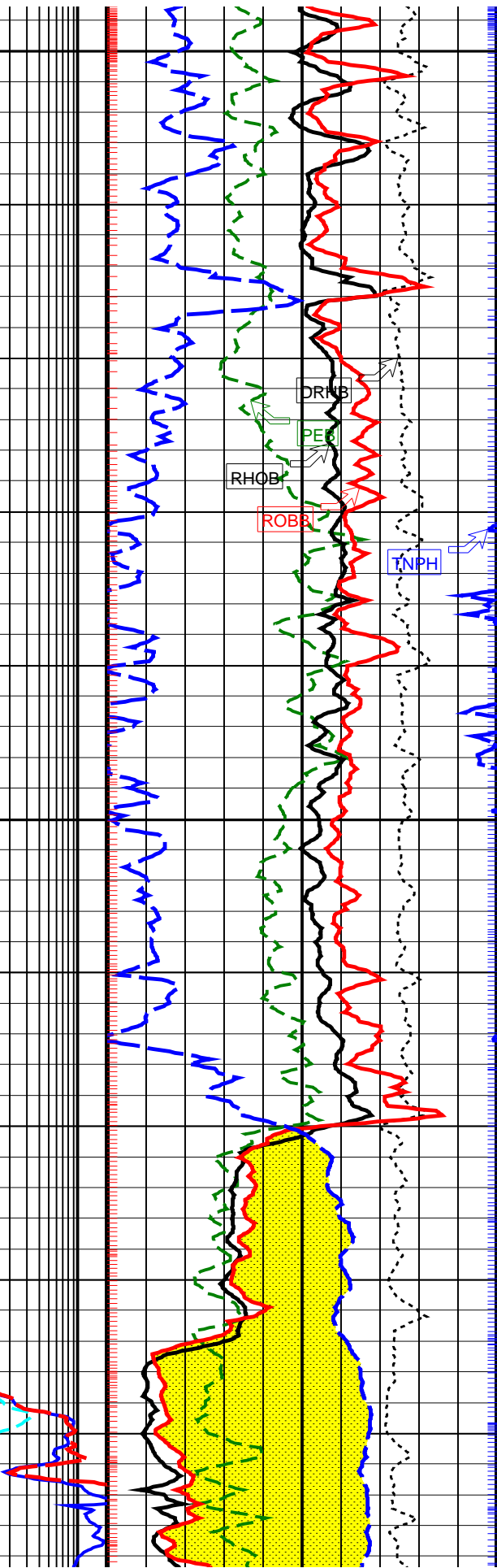
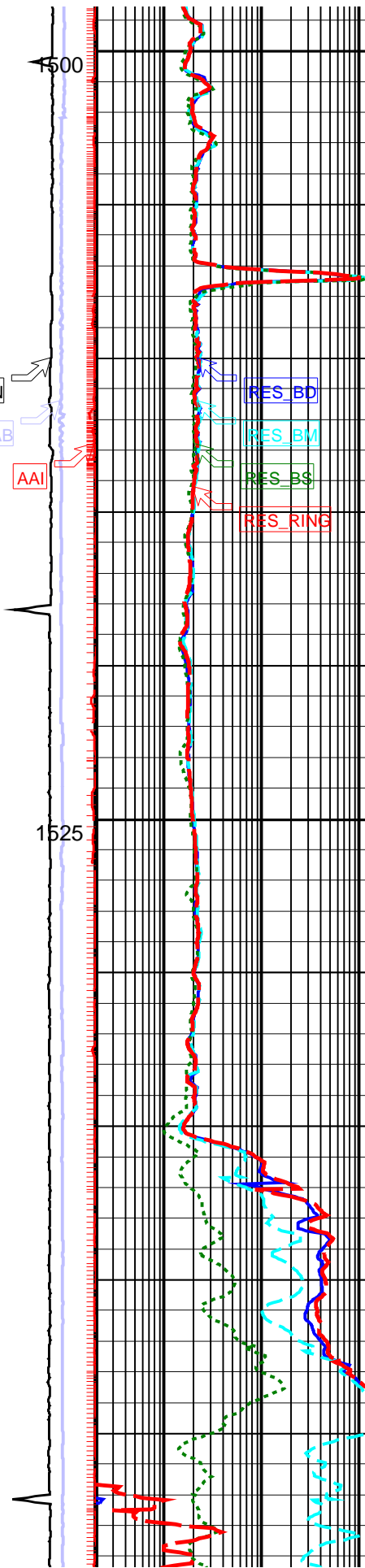
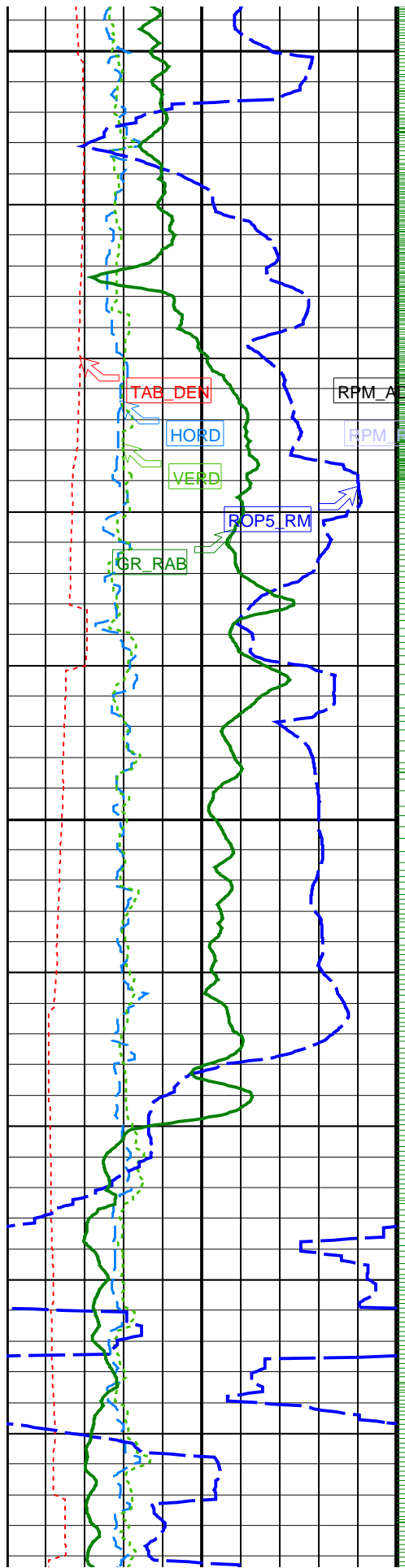


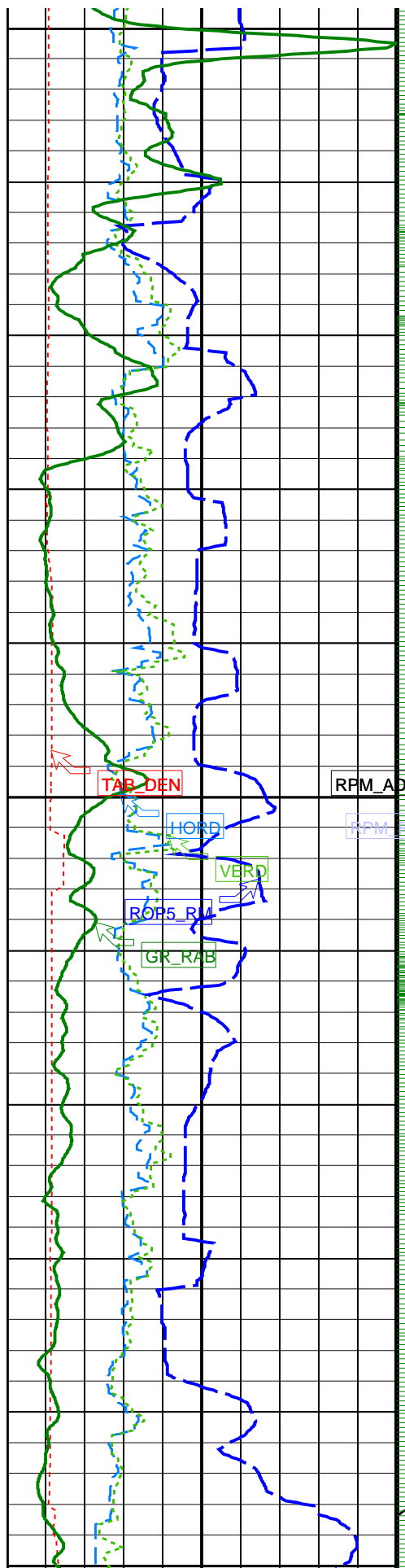












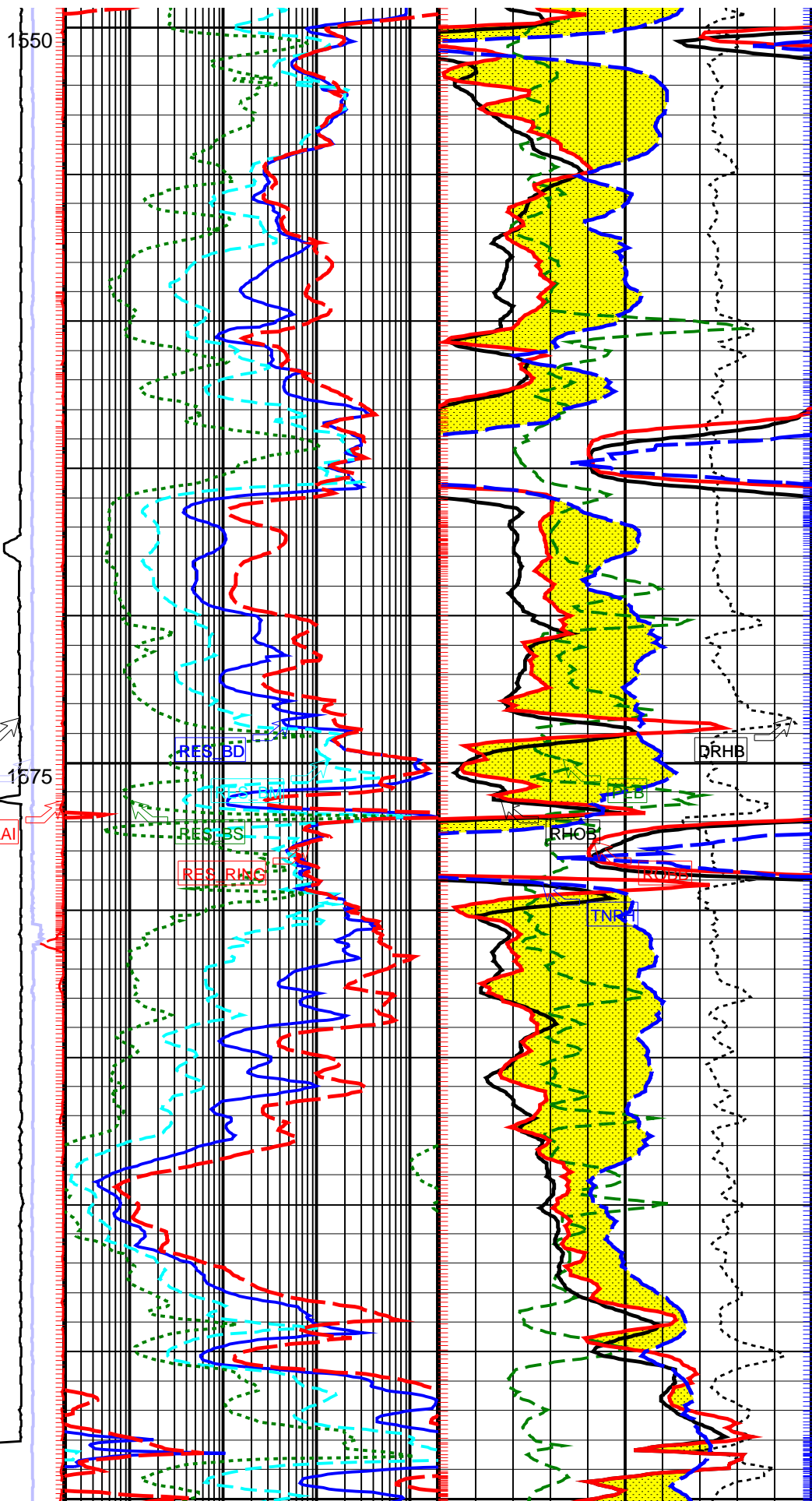
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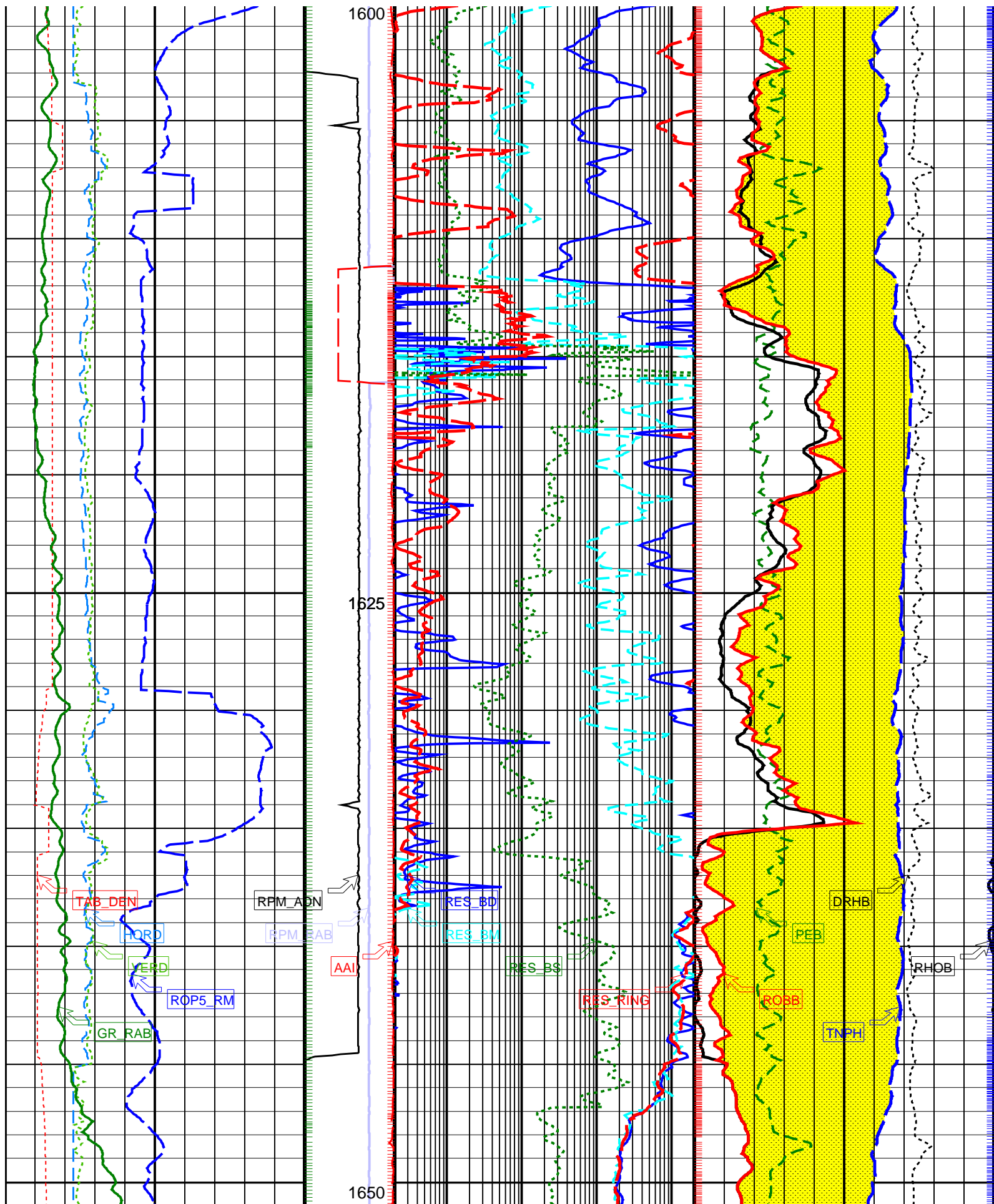
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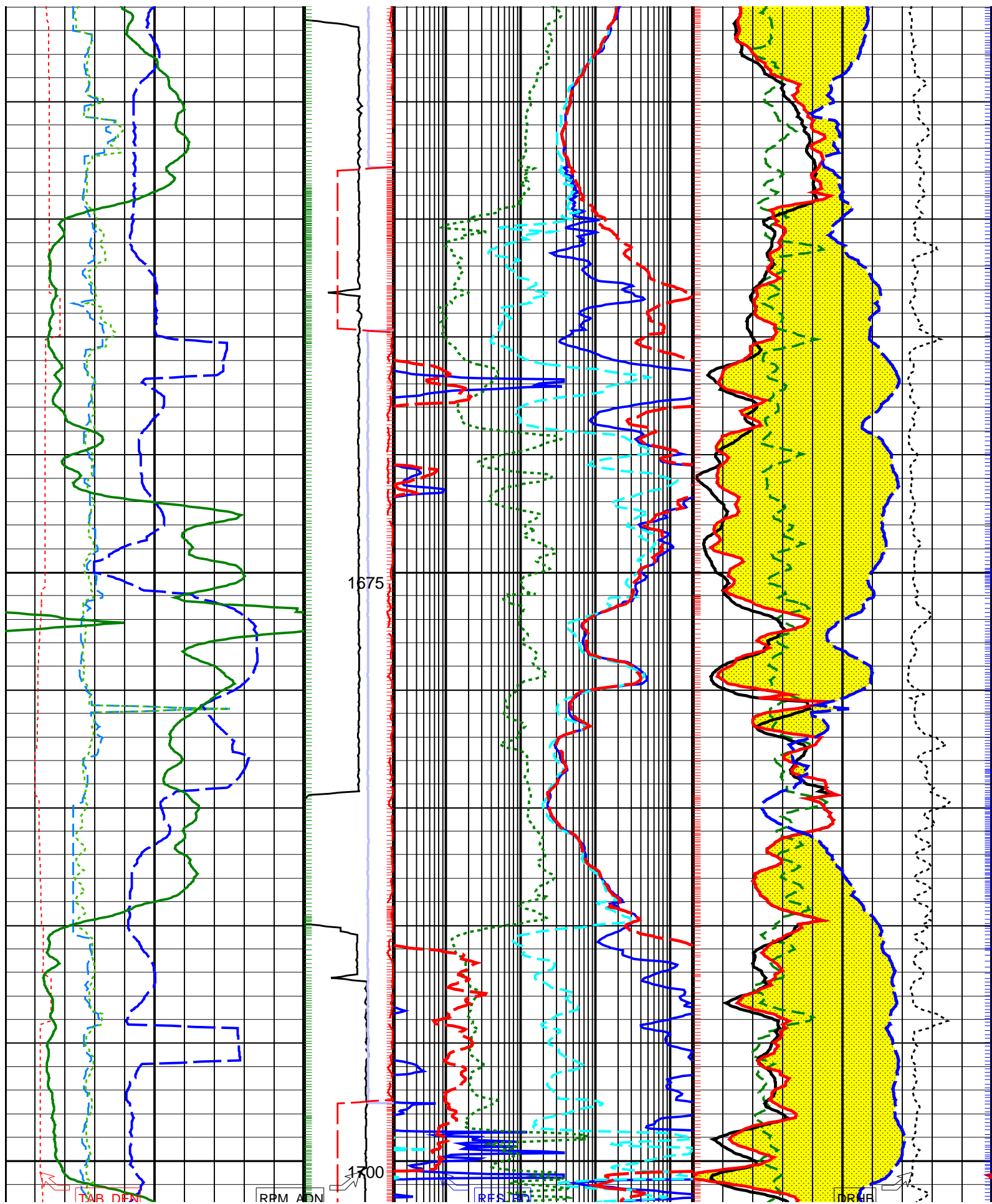
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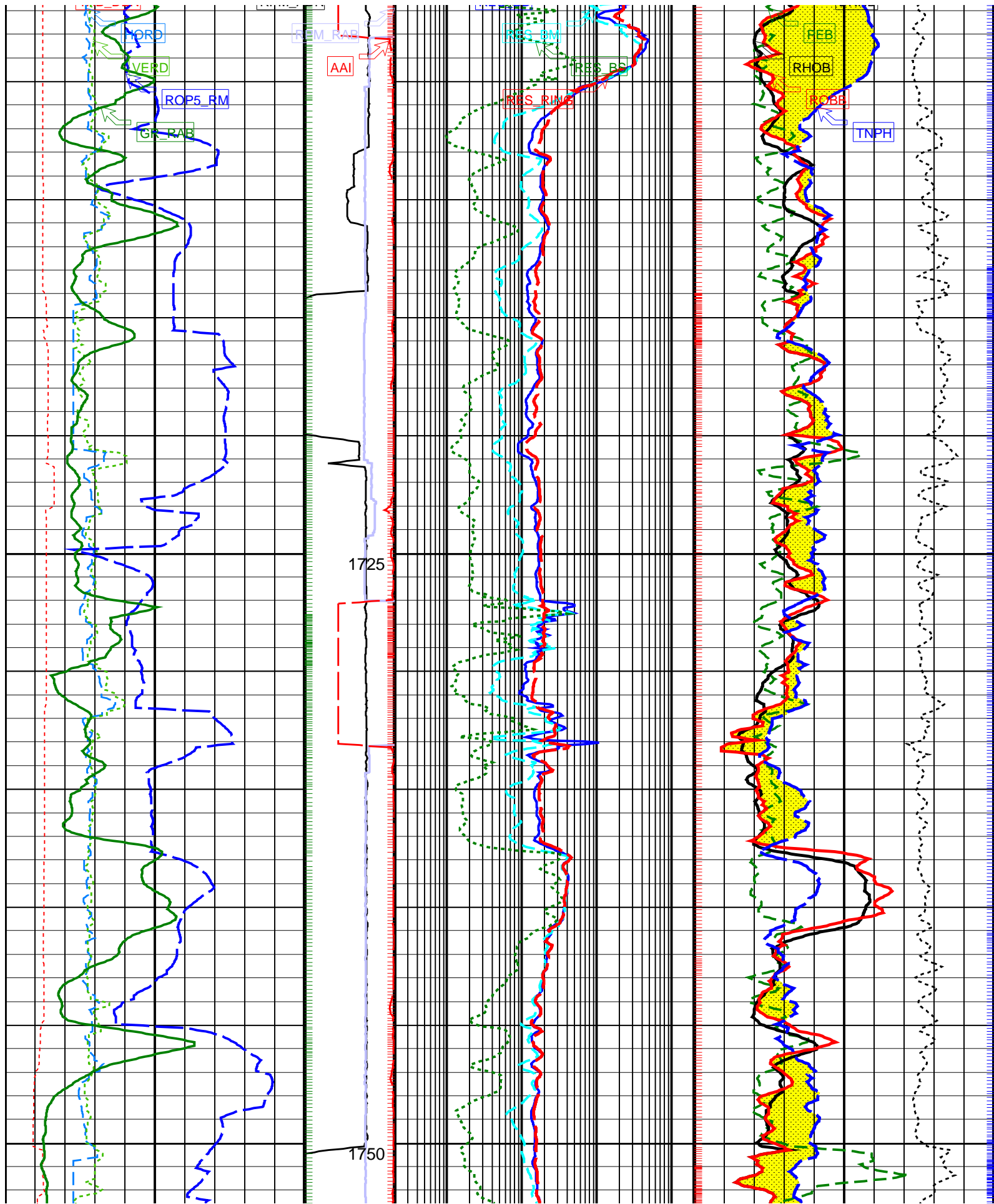
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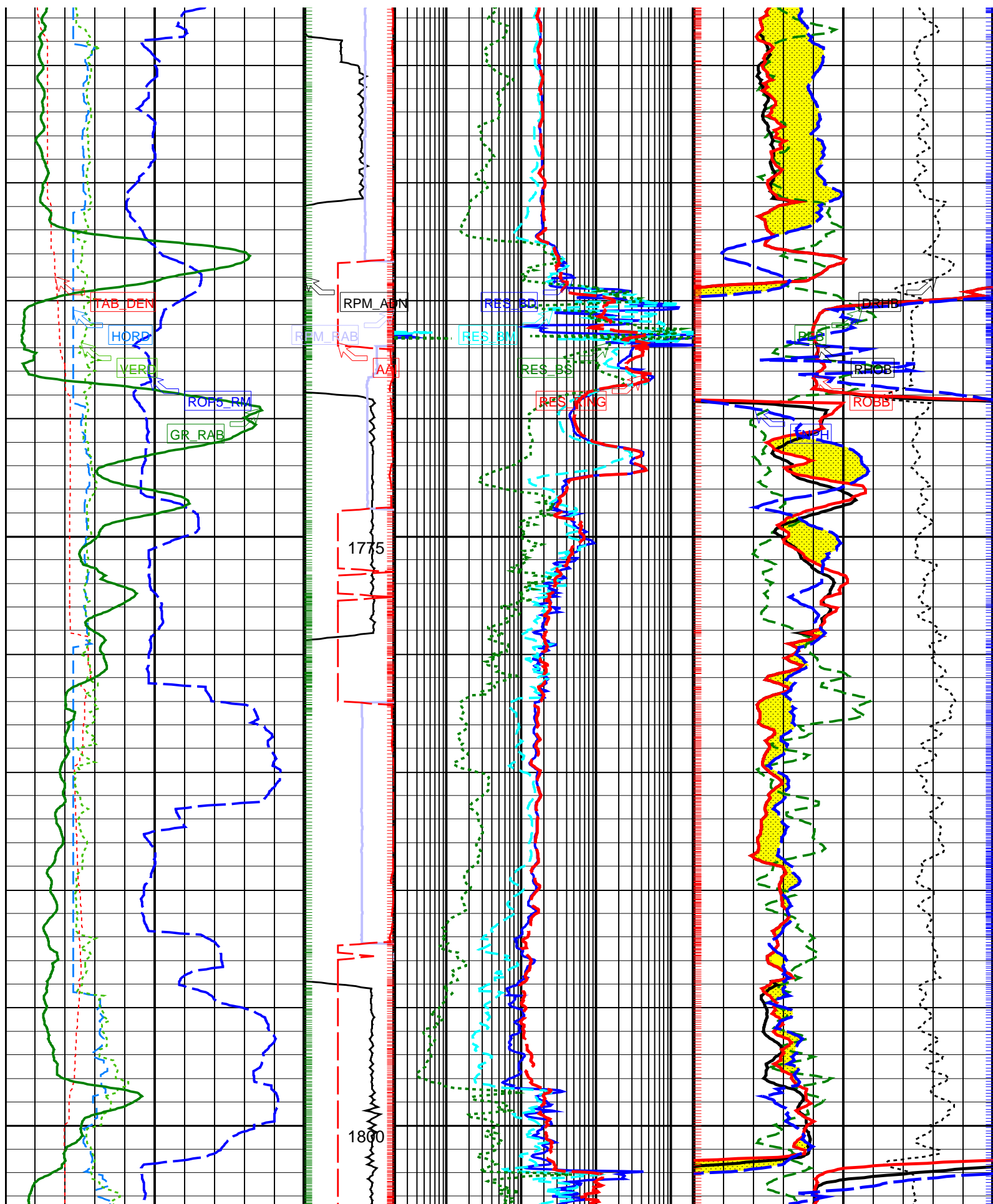


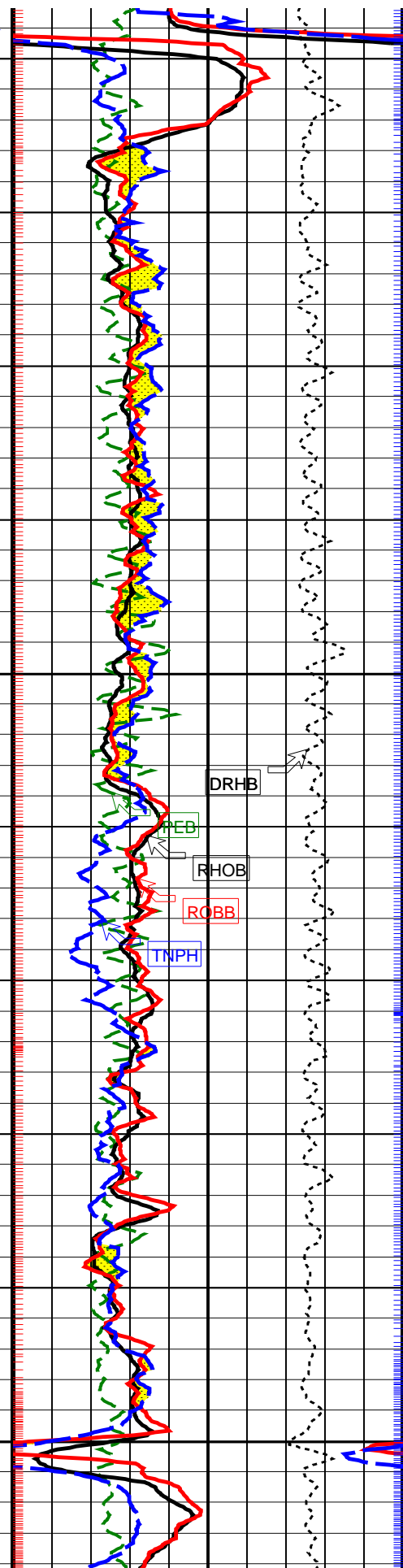
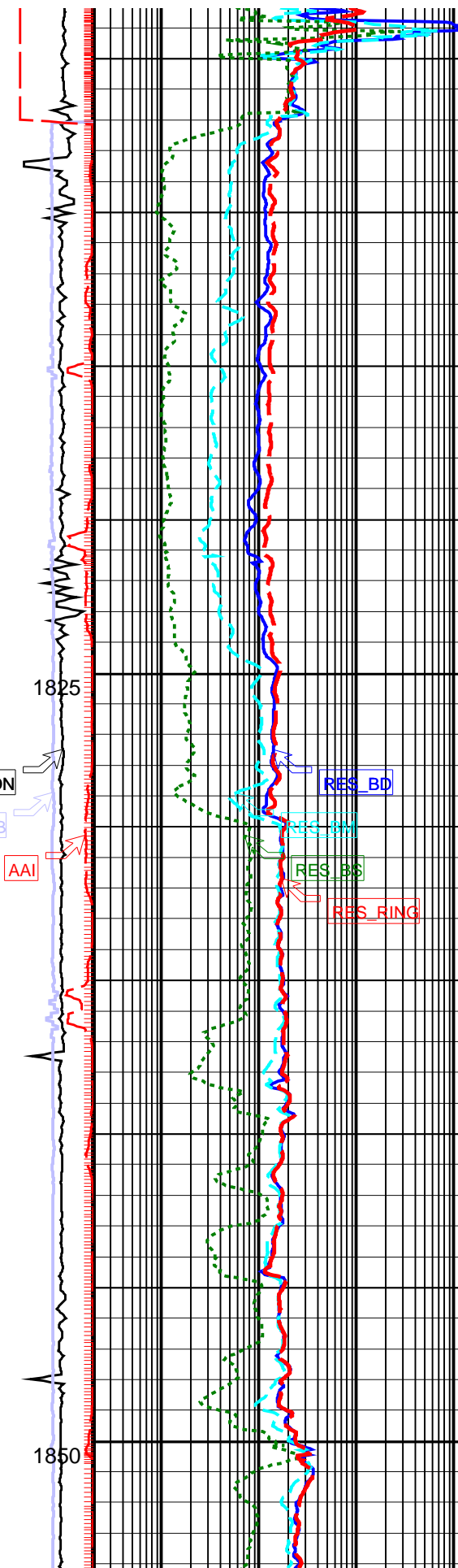
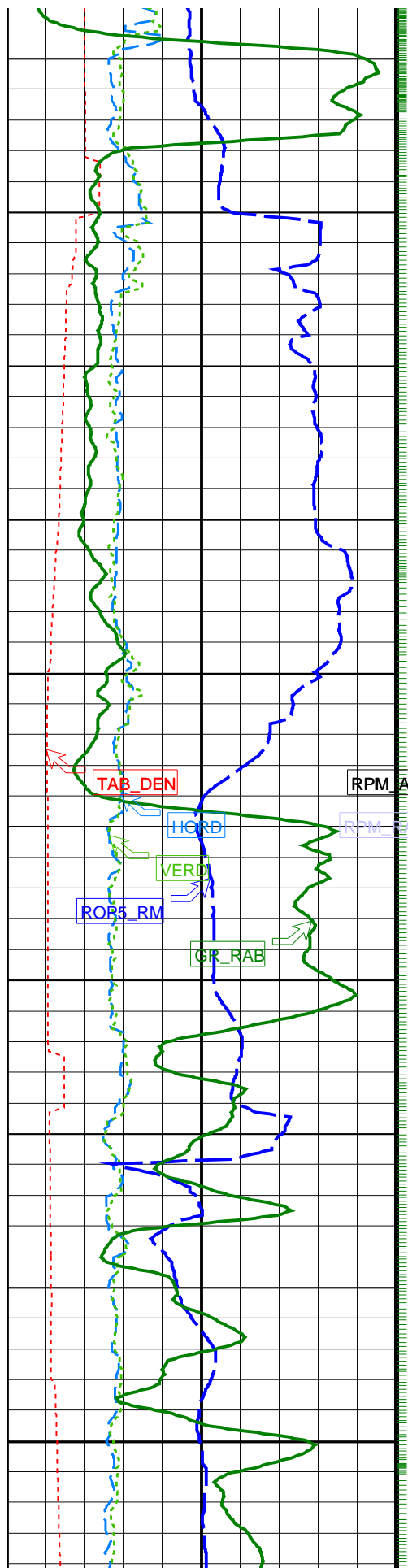




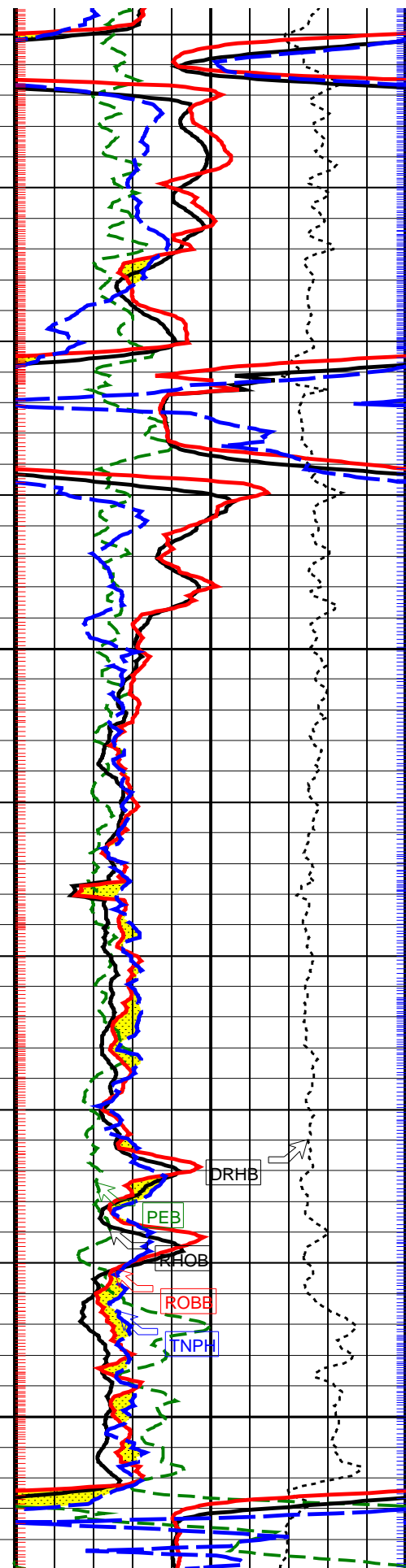
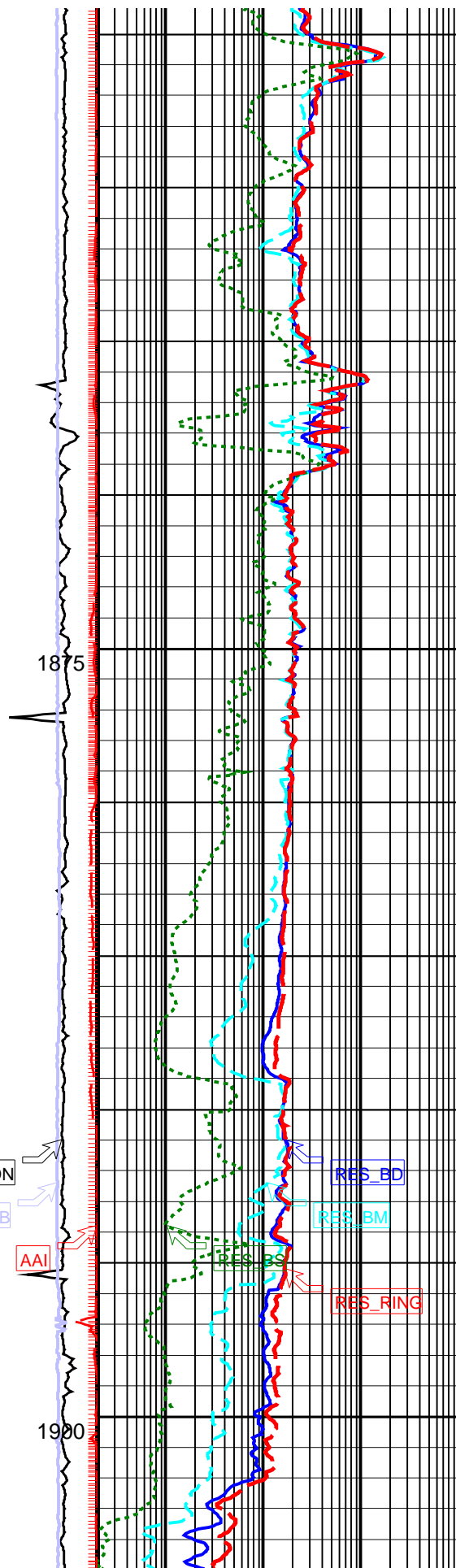
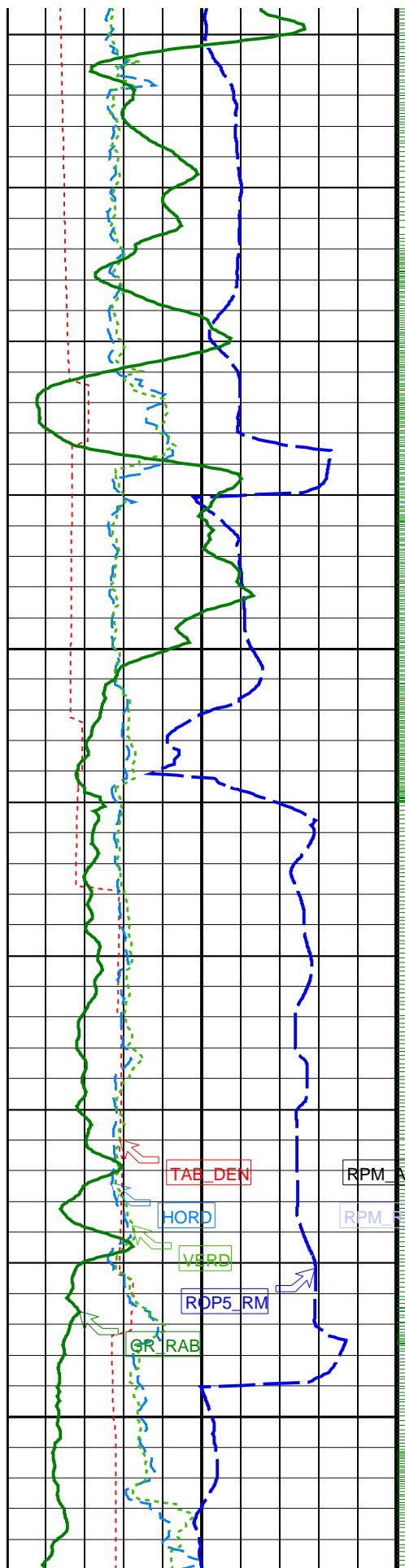


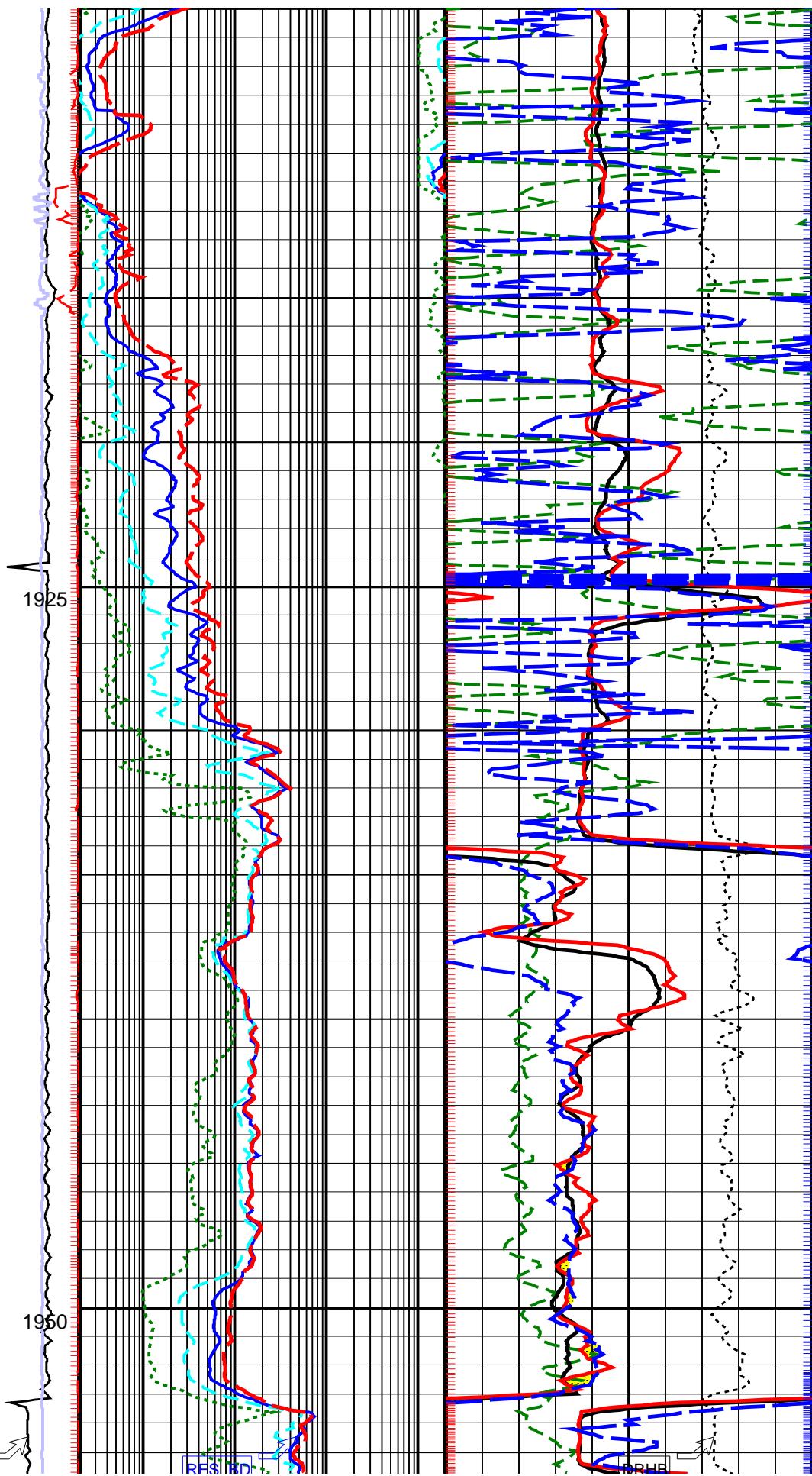
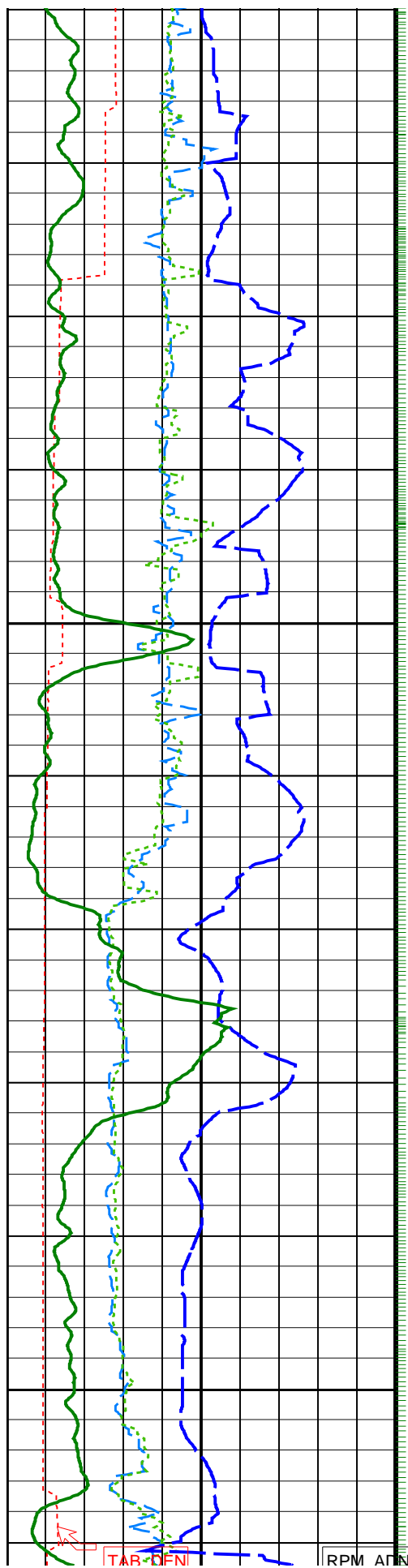


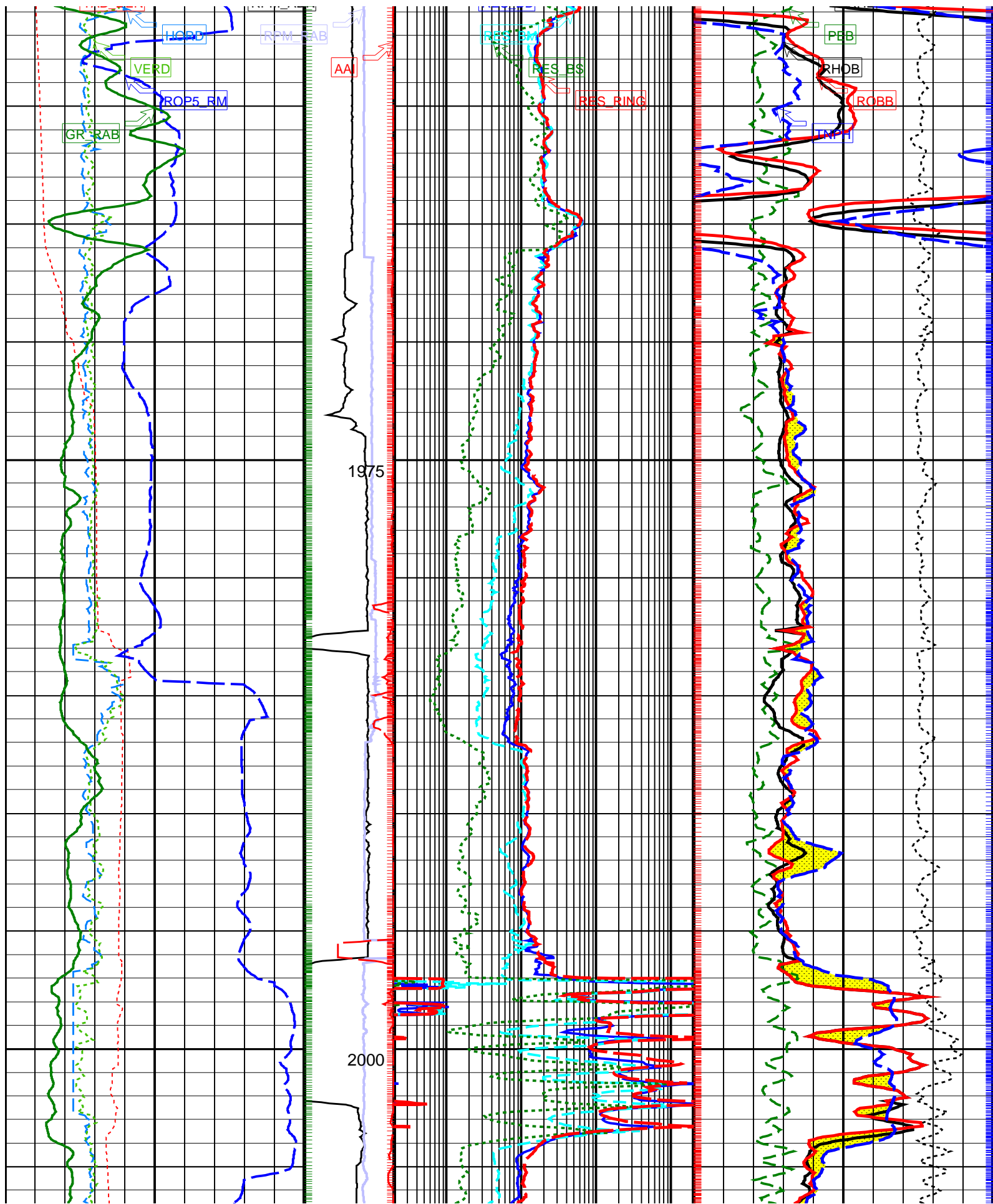


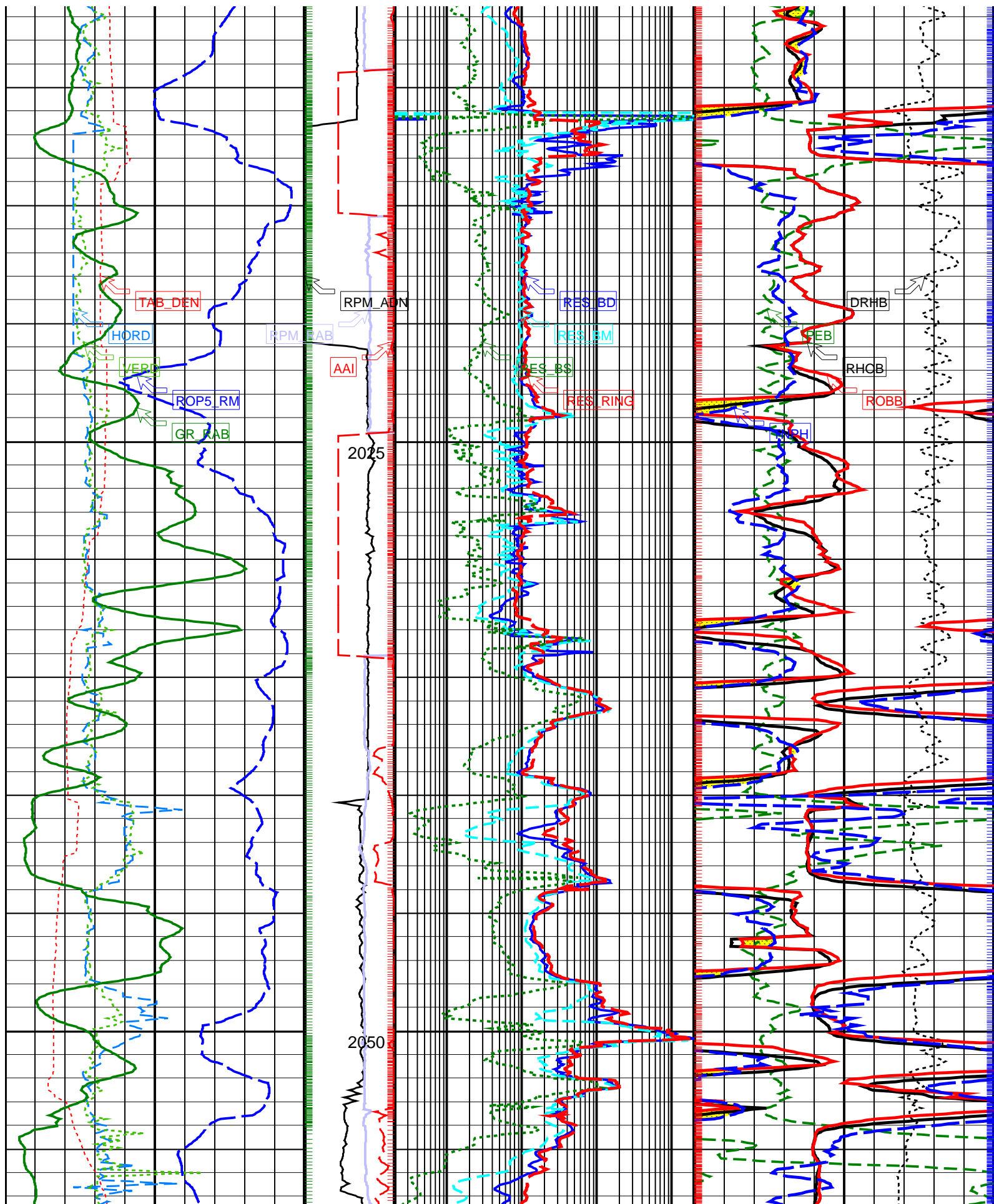


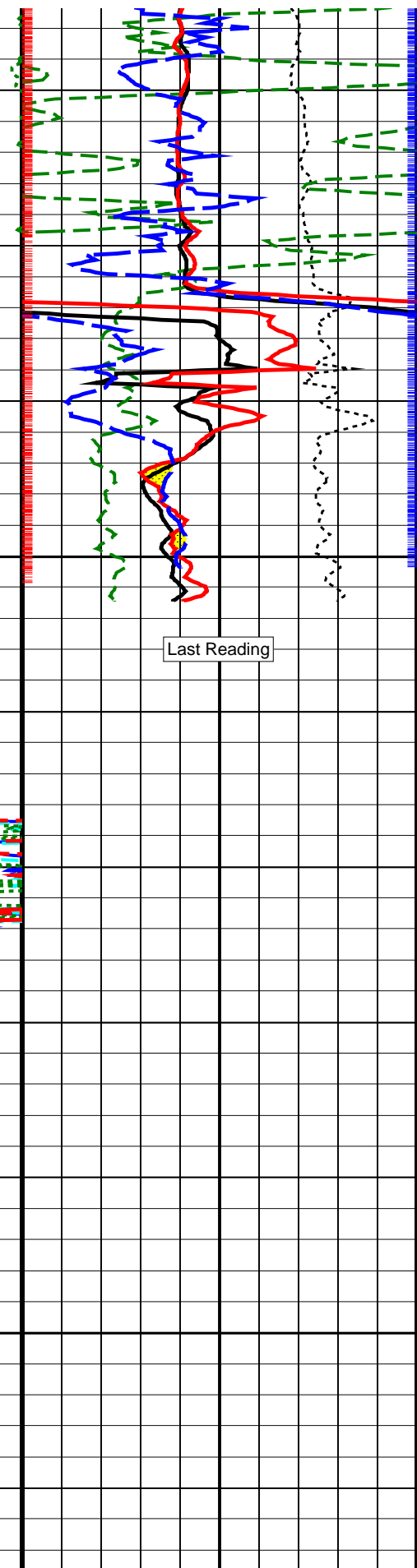
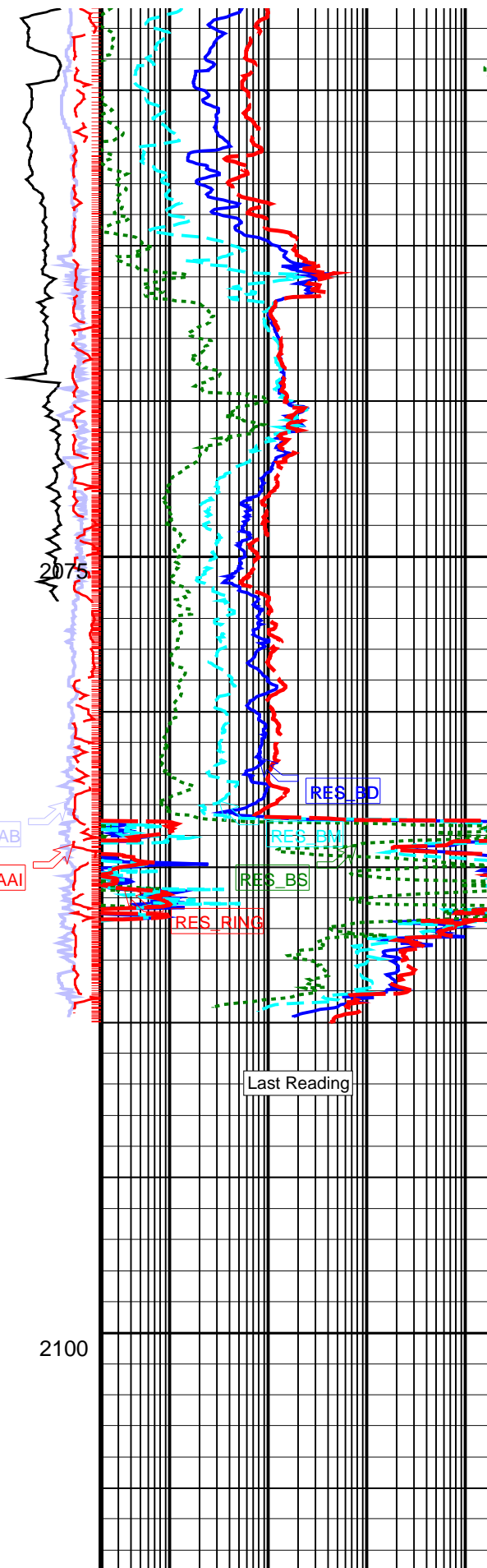
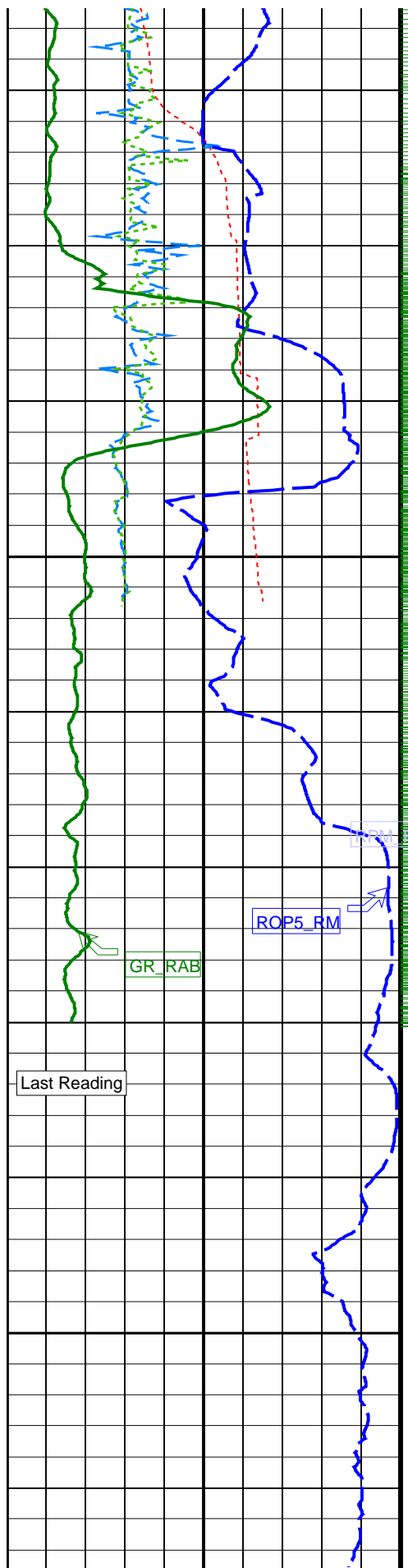












<div>Density Time After Bit (TAB_DEN) (HR)</div> <div>010</div>		<div>ADN Rotational Speed (RPM_ADN) (RPM)</div> <div>0200</div>	<div>Deep Button Resistivity (RES_BD) (OHMM)</div> <div>0.22000</div>		<div>Bulk Density Correction, Bottom (DRHB) (G/C3)</div> <div>-0.750.25</div>	
<div>Horizontal Hole Diameter (HORD) (IN)</div> <div>616</div>		<div>Angular Acceleratio n Indicator (AAI) (----- 4000</div>	<div>Medium Button Resistivity (RES_BM) (OHMM)</div> <div>0.22000</div>		<div>Photoelectric Factor, Bottom (PEB) (-----)</div> <div>010</div>	
<div>Vertical Hole Diameter (VERD) (IN)</div> <div>616</div>		<div>RAB Rotational Speed (RPM_RAB) (RPM)</div> <div>4000</div>	<div>Shallow Button Resistivity (RES_BS) (OHMM)</div> <div>0.22000</div>		<div>Bulk Density (RHOB) (G/C3)</div> <div>1.852.85</div>	
<div>RAB Gamma Ray (GR_RAB) (GAPI)</div> <div>0200</div>			<div>Ring Resistivity (RES_RING) (OHMM)</div> <div>0.22000</div>		<div>Bulk Density, Bottom (ROBB) (G/C3)</div> <div>1.852.85</div>	
<div>Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)</div> <div>1000</div>					<div>Thermal Neutron Porosity (TNPH) (PU)</div> <div>45-15</div>	
			<div>Gas Area From ADN/ROBB/DEPTH to ADN/TNPH/DEPTH</div>			

PIP SUMMARY

Density Samples +

Neutron Samples -

+ Gamma Ray Samples  
+ Ring Samples

IDEAL Version: ID8\_0C\_07  
IDF

6.75-in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:  
Tool Name and Serial Number  
Collar Type and Serial Number  
Chassis Type and Serial Number  
  
Neutron Logging Source  
Density Logging Source  
Stabilizer Size  
Calibration Status

ADN6 - CA  
ADDC - AA  
ADSE - EA  
  
NSR - M  
GSR - J/Z  
8.25 - in.  
Valid  
  
FE55  
FE55  
380  
  
202  
1994

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		1041	Master		2505	Master		6228
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)		700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)	
						2500 (Minimum)	23750 (Nominal)	45000 (Maximum)




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
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		156.5	Master		1275	Master		3922

50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)	500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)	1500 (Minimum)	15750 (Nominal)	30000 (Maximum)
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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			51.03	Master			129.8	Master			563.0
	15.00 (Minimum)	82.50 (Nominal)	150.0 (Maximum)		40.00 (Minimum)	220.0 (Nominal)	400.0 (Maximum)		150.0 (Minimum)	825.0 (Nominal)	1500 (Maximum)

Master: 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)			

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	90.00 (Minimum)	100.0 (Nominal)	125.0 (Maximum)	103.2
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











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


Primary Equipment:

Tool Name and Serial Number

191

### Calibration Status

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)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	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)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	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)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	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)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)			1.000 (Nominal)	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

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```
Client.....: ESSO
Field.....: Barracouta
```

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

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

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

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METHOD FOR DLS..... MASON & LAYLOI

----- 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

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

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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/10m)	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	4.23	GYR	None
3	371.56	6.26	115.73	19.96	371.48	2.00	-0.42	10.90	10.91	92.23	1.67	MWD	None
4	400.60	10.44	98.23	29.04	400.21	5.66	-1.49	14.93	15.01	95.69	1.67	GYR	None
5	430.00	13.39	92.42	29.40	428.97	11.40	-2.01	20.97	21.07	95.48	1.08	MWD	None
6	458.41	16.35	82.38	28.41	456.43	18.54	-1.62	28.22	28.27	93.29	1.38	MWD	None
7	487.44	19.21	75.25	29.03	484.08	27.38	0.14	36.90	36.90	89.79	1.24	MWD	None
8	516.58	22.78	75.14	29.14	511.28	37.82	2.80	46.99	47.07	86.58	1.23	MWD	None
9	545.52	27.31	73.86	28.94	537.49	50.06	6.09	58.79	59.10	84.09	1.58	MWD	None
10	574.63	31.33	72.34	29.11	562.87	64.29	10.24	72.42	73.14	81.95	1.40	MWD	None
11	603.86	34.81	75.42	29.23	587.36	80.22	14.65	87.74	88.95	80.52	1.32	MWD	None
12	632.38	38.27	75.46	28.52	610.27	97.19	18.92	104.17	105.88	79.71	1.21	MWD	None
13	661.80	41.30	75.07	29.42	632.87	116.01	23.71	122.38	124.65	79.04	1.03	MWD	None
14	691.10	45.16	74.90	29.30	654.22	136.07	28.91	141.76	144.67	78.47	1.32	MWD	None
15	719.99	48.91	74.32	28.89	673.90	157.20	34.52	162.13	165.77	77.98	1.31	MWD	None
16	749.12	52.83	74.48	29.13	692.28	179.78	40.59	183.89	188.32	77.55	1.35	MWD	None
17	778.33	56.53	75.07	29.21	709.17	203.61	46.85	206.89	212.13	77.24	1.28	MWD	None
18	806.73	58.42	75.06	28.40	724.44	227.54	53.02	230.02	236.05	77.02	0.67	MWD	None
19	826.51	60.05	75.43	19.78	734.56	244.54	57.35	246.46	253.04	76.90	0.84	MWD	None
20	857.08	60.11	75.02	30.57	749.80	271.03	64.11	272.08	279.53	76.74	0.12	MWD	None
21	885.76	61.34	74.96	28.68	763.83	296.04	70.58	296.24	304.53	76.60	0.43	MWD	None
22	914.88	60.95	74.82	29.12	777.88	321.54	77.23	320.86	330.03	76.47	0.14	MWD	None
23	943.53	60.68	75.21	28.65	791.85	346.55	83.70	345.03	355.03	76.36	0.15	MWD	None
24	972.56	59.77	76.43	29.03	806.27	371.74	89.87	369.45	380.23	76.33	0.48	MWD	None
25	1001.50	59.54	77.10	28.94	820.89	396.72	95.59	393.77	405.20	76.35	0.22	MWD	None
26	1030.64	59.11	76.93	29.14	835.76	421.78	101.22	418.19	430.26	76.39	0.16	MWD	None
27	1059.78	57.85	76.77	29.14	850.99	446.61	106.87	442.38	455.10	76.42	0.43	MWD	None
28	1089.10	58.34	76.70	29.32	866.49	471.50	112.59	466.60	479.99	76.43	0.17	MWD	None
29	1118.03	59.62	78.08	28.93	881.39	496.29	118.00	490.80	504.78	76.48	0.60	MWD	None
30	1147.18	61.65	77.56	29.15	895.69	521.68	123.36	515.63	530.18	76.55	0.71	MWD	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/10m)	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	0.37	MWD	None
32	1205.78	63.29	77.18	29.34	922.65	573.70	134.71	566.40	582.20	76.62	0.20	MWD	None
33	1234.53	63.22	77.02	28.75	935.59	599.37	140.44	591.43	607.87	76.64	0.06	MWD	None
34	1263.41	63.32	74.80	28.88	948.58	625.16	146.72	616.44	633.66	76.61	0.69	MWD	None
35	1292.28	62.74	73.74	28.87	961.67	650.88	153.70	641.21	659.37	76.52	0.38	MWD	None
36	1321.68	61.29	72.83	29.40	975.47	676.80	161.16	666.07	685.29	76.40	0.56	MWD	None
37	1350.51	60.59	72.52	28.83	989.47	701.95	168.67	690.13	710.44	76.27	0.26	MWD	None
38	1379.66	60.36	72.02	29.15	1003.84	727.26	176.39	714.29	735.75	76.13	0.17	MWD	None
39	1408.57	60.11	72.24	28.91	1018.19	752.29	184.09	738.18	760.78	76.00	0.11	MWD	None
40	1437.70	60.53	73.72	29.13	1032.61	777.56	191.50	762.37	786.06	75.90	0.46	MWD	None
41	1466.67	60.32	73.21	28.97	1046.91	802.72	198.67	786.53	811.23	75.82	0.17	MWD	None
42	1494.99	59.98	74.68	28.32	1061.01	827.27	205.46	810.13	835.78	75.77	0.47	MWD	None
43	1524.16	60.08	76.01	29.17	1075.58	852.53	211.85	834.58	861.05	75.76	0.40	MWD	None
44	1553.56	60.34	75.95	29.40	1090.19	878.05	218.04	859.33	886.56	75.76	0.09	MWD	None
45	1582.31	59.93	76.35	28.75	1104.50	902.98	224.00	883.54	911.49	75.77	0.19	MWD	None

46	1611.11	60.27	75.83	28.80	1118.86	927.95	230.01	907.77	936.46	75.78	0.20	MWD	None
47	1640.37	60.83	76.43	29.26	1133.25	953.42	236.11	932.51	961.94	75.79	0.26	MWD	None
48	1669.37	61.92	76.44	29.00	1147.14	978.88	242.08	957.25	987.39	75.81	0.38	MWD	None
49	1697.95	61.74	77.55	28.58	1160.63	1004.07	247.75	981.80	1012.58	75.84	0.35	MWD	None
50	1727.34	61.10	76.95	29.39	1174.69	1029.88	253.45	1006.98	1038.38	75.87	0.28	MWD	None
51	1756.52	60.74	76.03	29.18	1188.87	1055.38	259.41	1031.77	1063.88	75.89	0.30	MWD	None
52	1785.84	61.68	75.81	29.32	1202.99	1081.07	265.66	1056.69	1089.58	75.89	0.33	MWD	None
53	1814.73	60.60	74.63	28.89	1216.94	1106.37	272.11	1081.16	1114.88	75.87	0.52	MWD	None
54	1843.93	59.17	75.44	29.20	1231.59	1131.62	278.63	1105.56	1140.13	75.85	0.55	MWD	None
55	1873.01	60.22	75.24	29.08	1246.26	1156.72	284.99	1129.85	1165.24	75.84	0.37	MWD	None
56	1901.51	60.30	75.12	28.50	1260.40	1181.47	291.32	1153.77	1189.98	75.83	0.05	MWD	None
57	1930.50	59.14	74.53	28.99	1275.02	1206.49	297.87	1177.93	1215.01	75.81	0.44	MWD	None
58	1959.59	60.04	74.44	29.09	1289.74	1231.57	304.58	1202.11	1240.09	75.78	0.31	MWD	None
59	1988.62	60.66	73.85	29.03	1304.10	1256.78	311.47	1226.37	1265.31	75.75	0.28	MWD	None
60	2017.48	61.16	73.65	28.86	1318.14	1281.98	318.53	1250.59	1290.51	75.71	0.18	MWD	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/ 10m)	Srvy tool type	Tool Corr (deg)
61	2046.69	59.38	74.45	29.21	1332.62	1307.32	325.50	1274.97	1315.87	75.68	0.65	MWD	None
62	2075.98	59.44	74.58	29.29	1347.53	1332.52	332.24	1299.27	1341.08	75.66	0.04	MWD	None
63	2108.00	59.44	74.48	32.02	1363.81	1360.08	339.59	1325.84	1368.64	75.63	0.03	Projection to TD	

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

**Schlumberger**

Well: **BTA-A4A**

Field: **Barracouta**

Rig: **ENSCO 102**

**8.5 in. Section**

State: **Victoria**

**GeoVISION Service  
1:200 Measured Depth  
Recorded Mode Log**

