

# Bit Run Summary

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						
<b>Environmental data</b>										
<b>GR</b>										
Mud weight	ppg	10.0	10.0	10.0						
Bit size	in.	8.5	8.5	8.5						
<b>Resistivity</b>										
<b>Neutron porosity</b>										
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

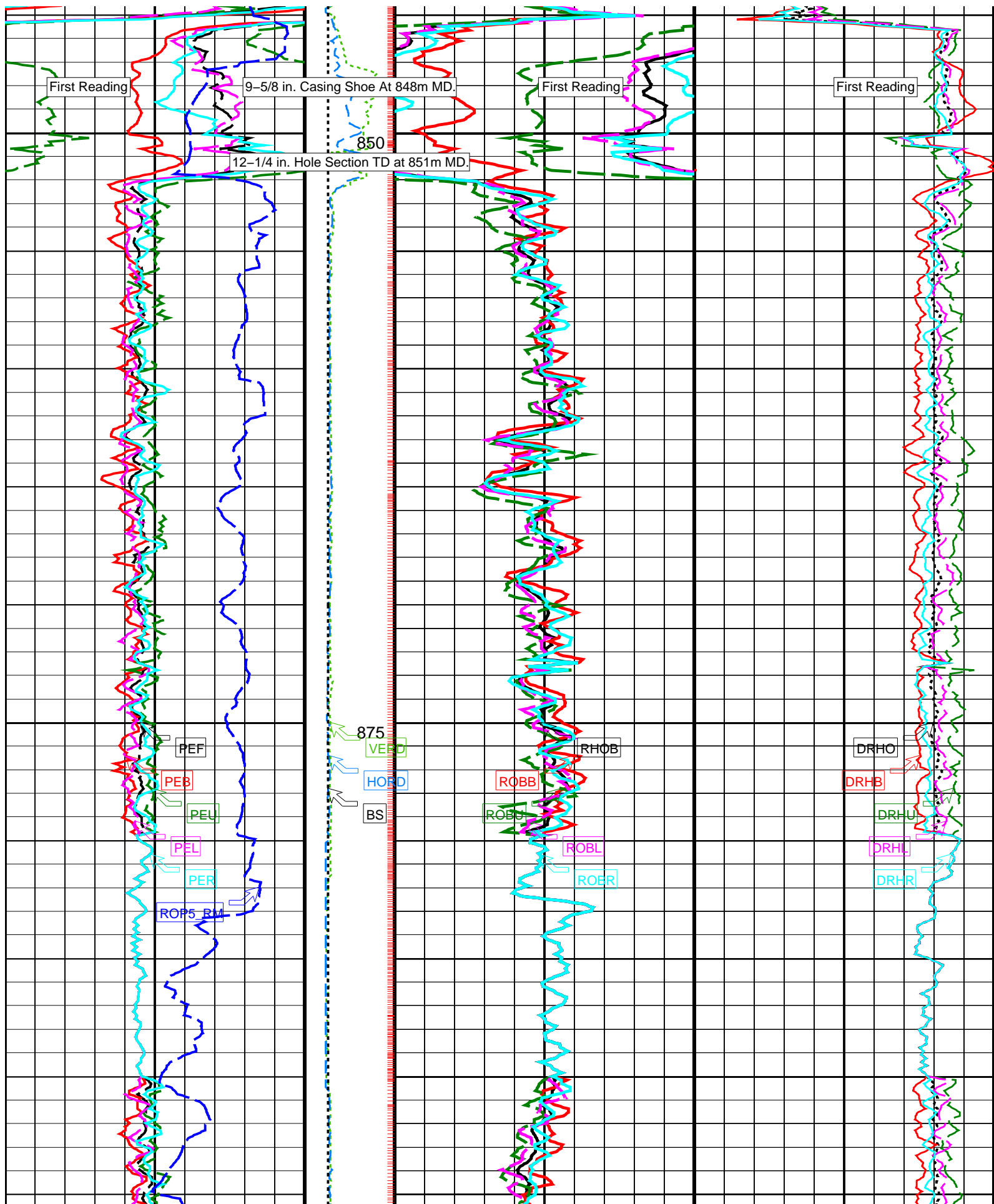
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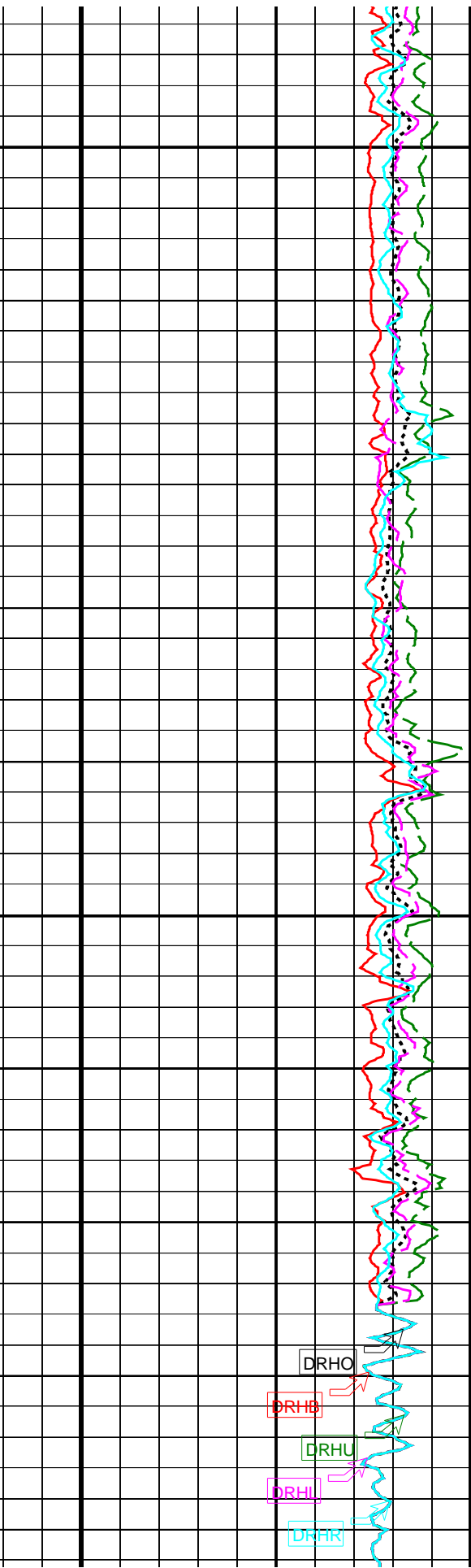
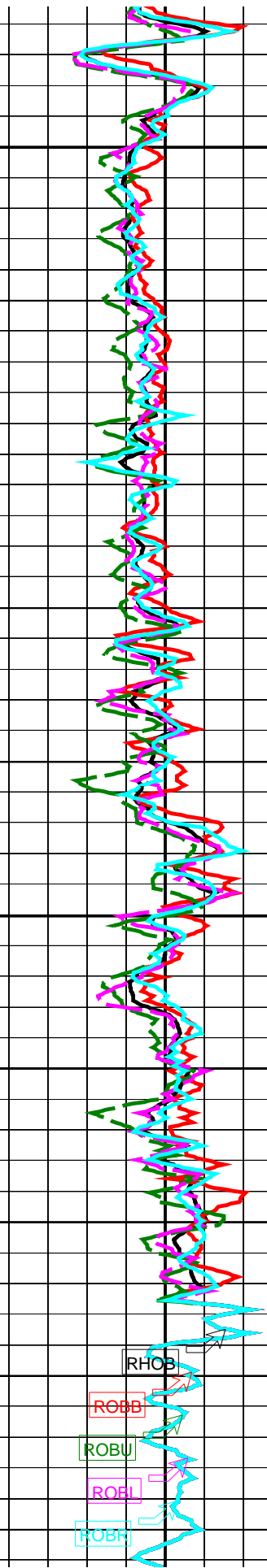
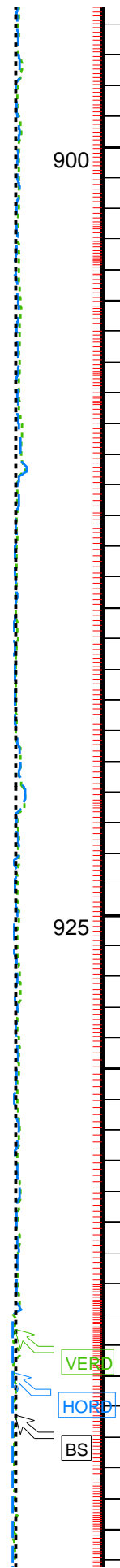
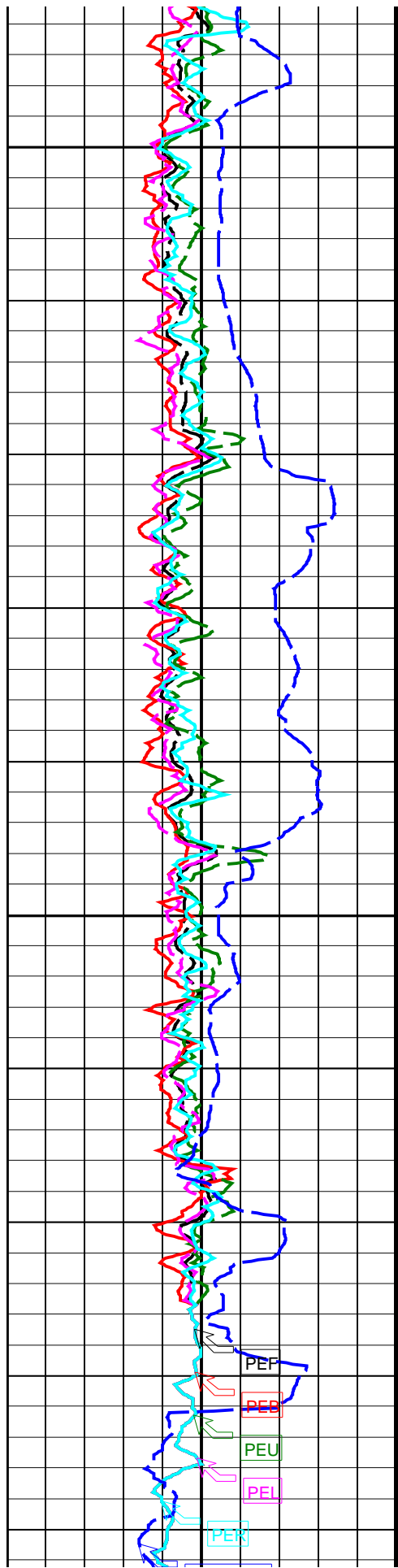
OTHER SERVICES FOR RUN2 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN3 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN4 Directional Drilling D&I Survey
<b>REMARKS: RUN NUMBER 2</b> 8-1/2 in. hole section was drilled from 851.0 m to 2108.0 m.  Depth is referenced to Driller's Depth.  All 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.	<b>REMARKS: RUN NUMBER 3</b> 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.	<b>REMARKS: RUN NUMBER 4</b> 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.

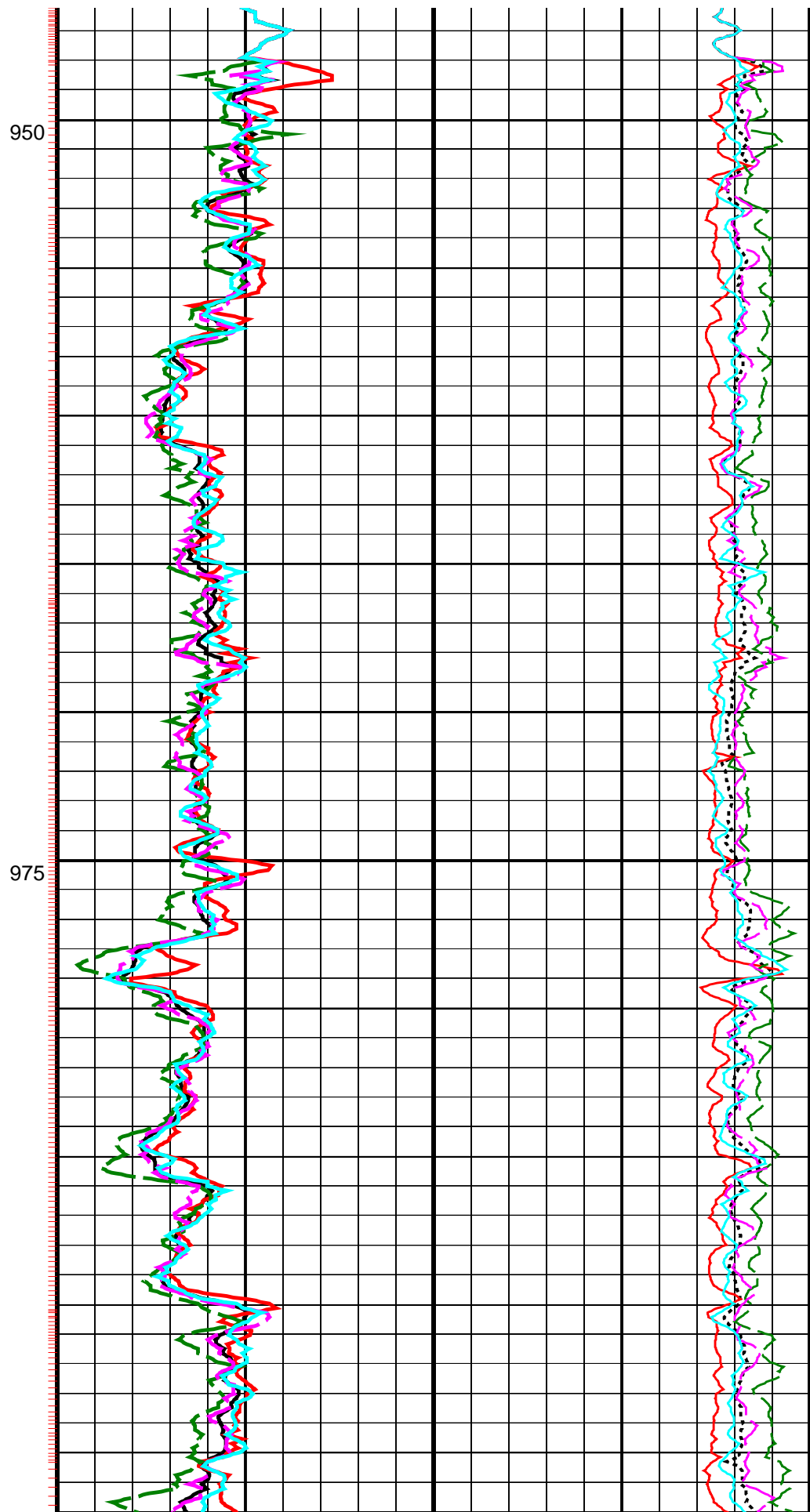
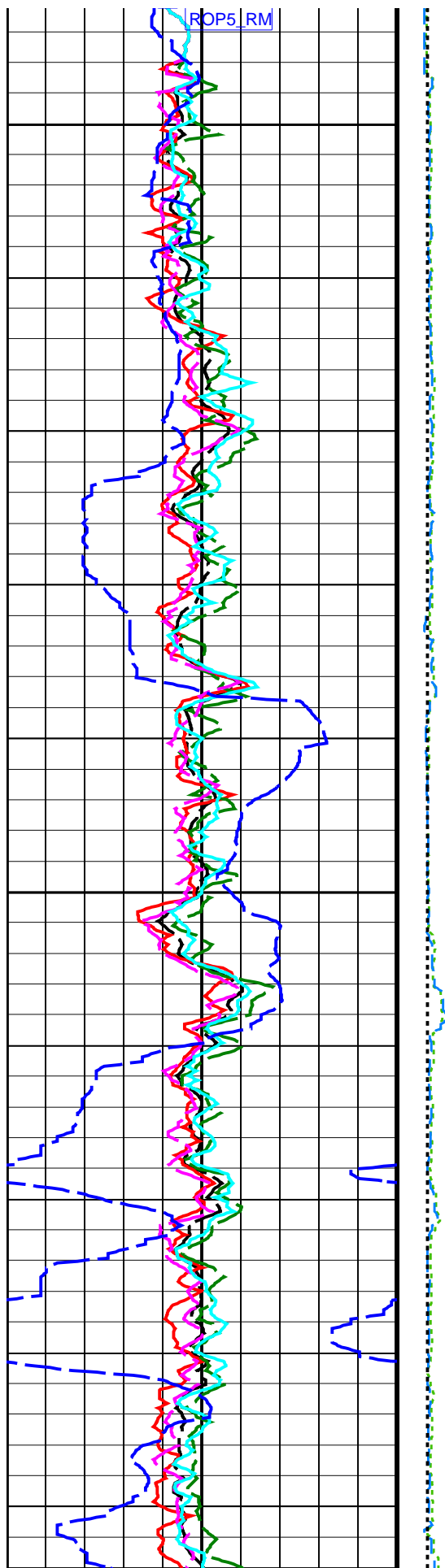
sliding intervals.	Barite in the mud system.	sliding intervals.
PEF readings were affected by the presence of Barite in the mud system.	POOH to change BHA.	PEF readings were affected by the presence of Barite in the mud system.
Data density compromised at high ROP.		Data density compromised at high ROP.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

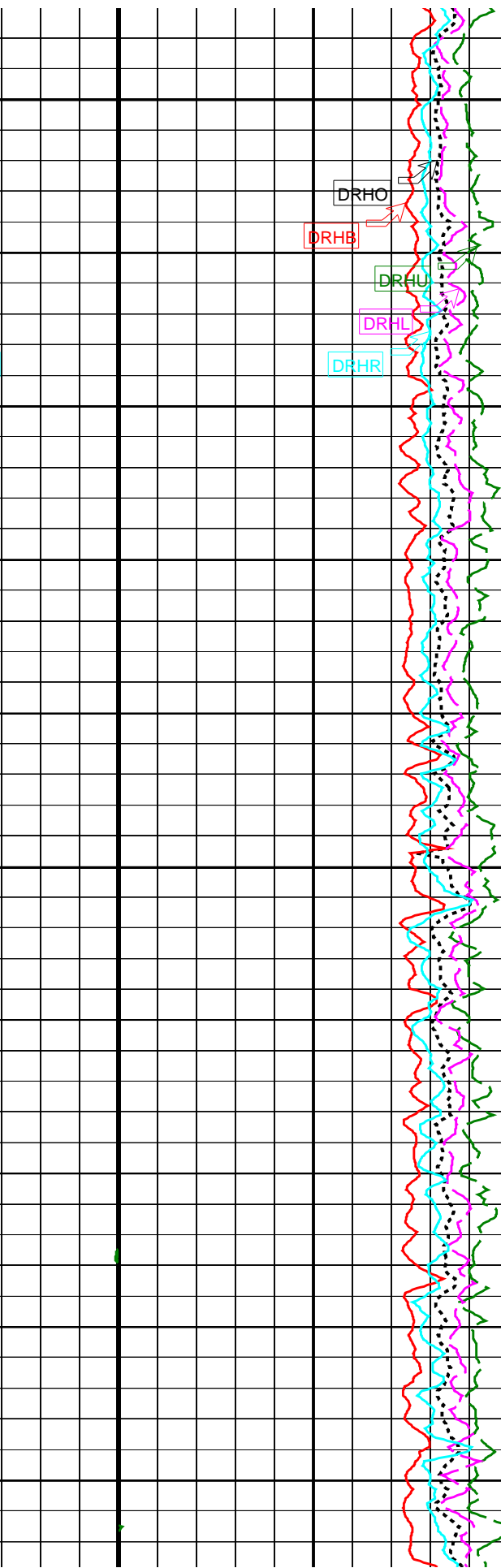
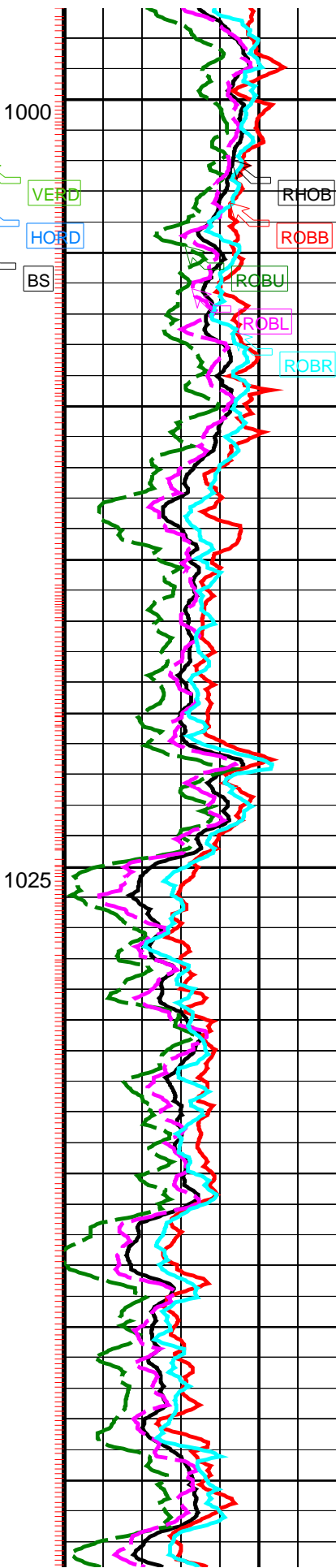
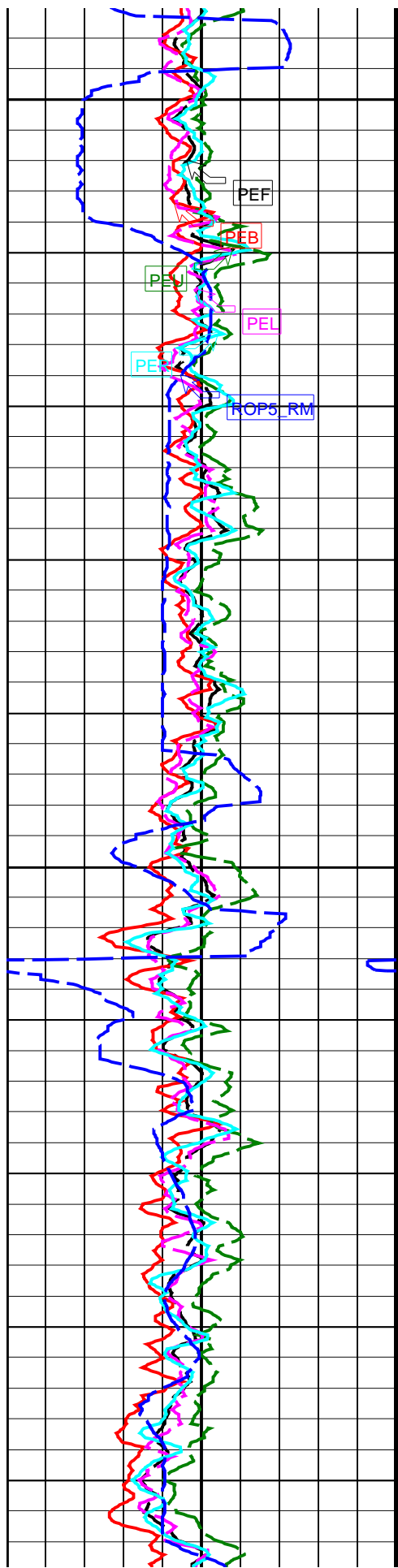
EQUIPMENT DESCRIPTION		
RUN2	RUN3	RUN4
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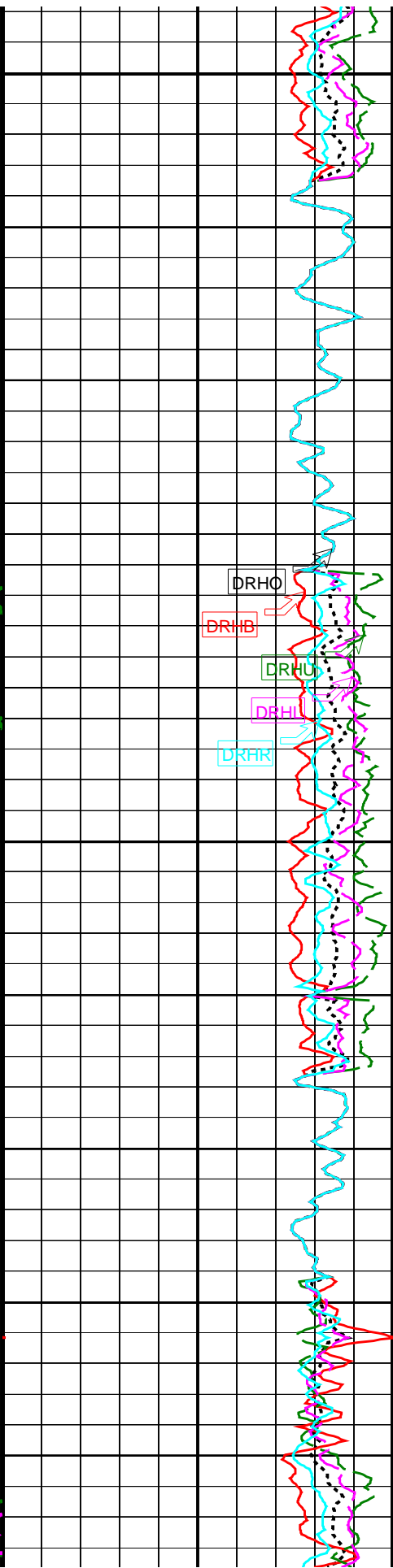
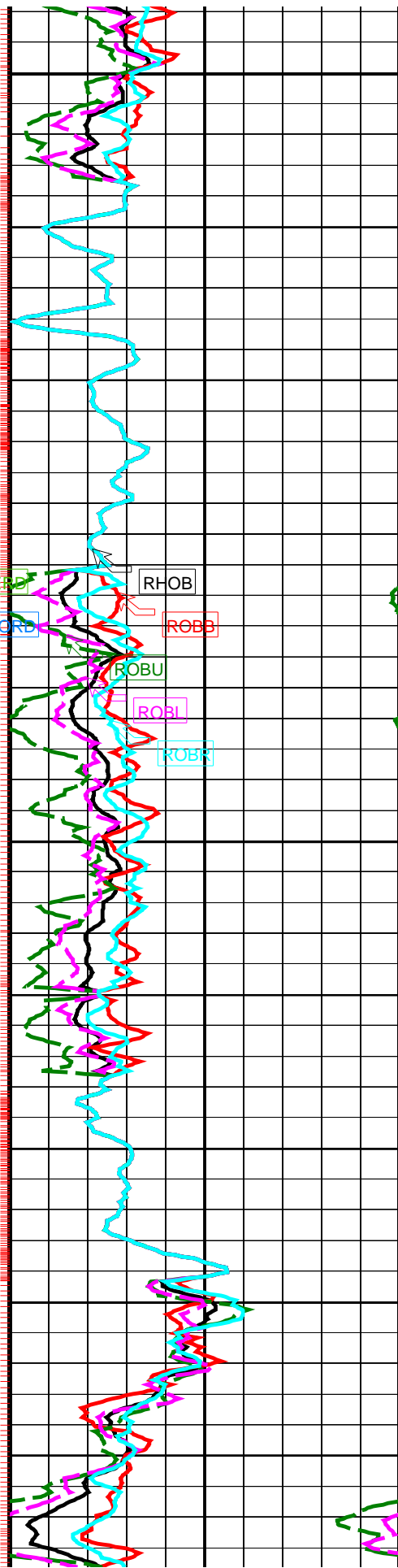
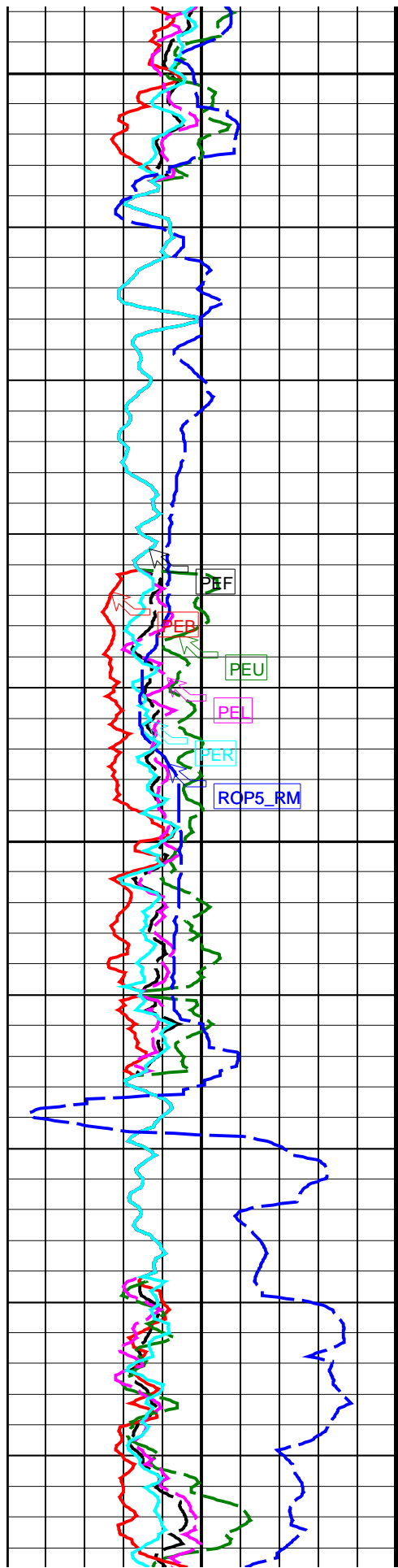


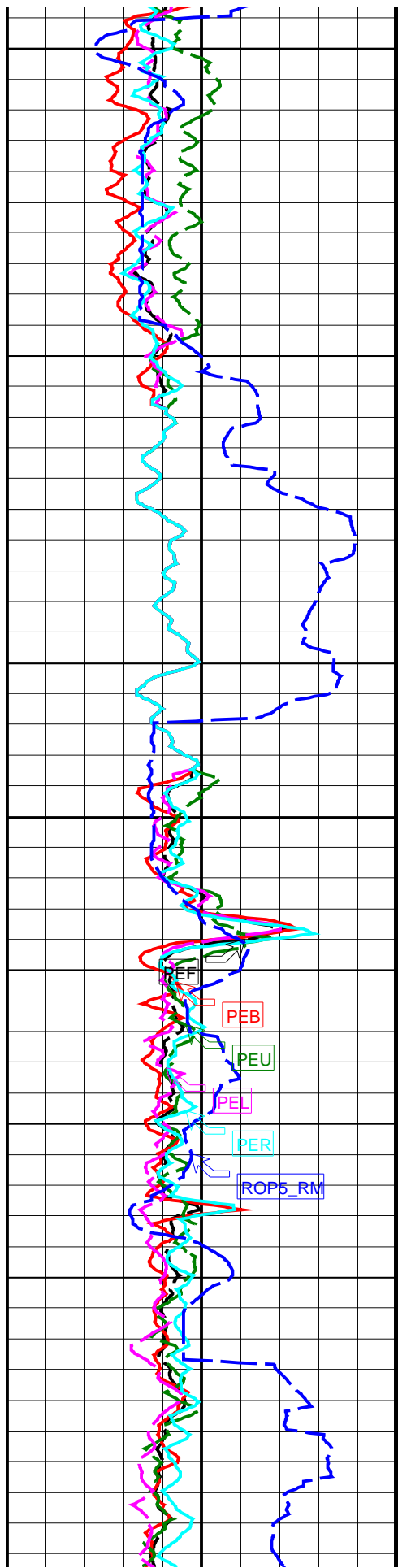


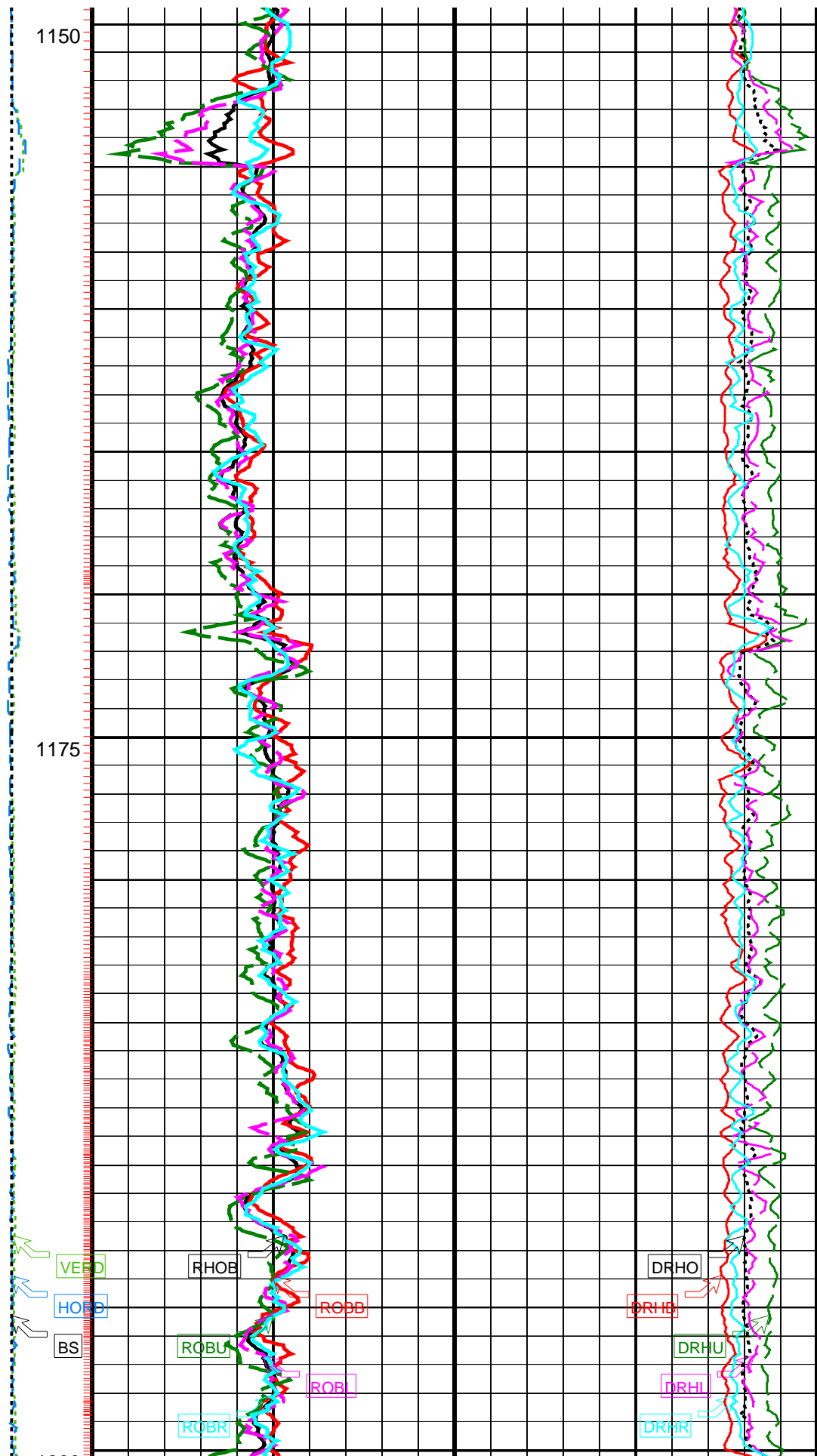
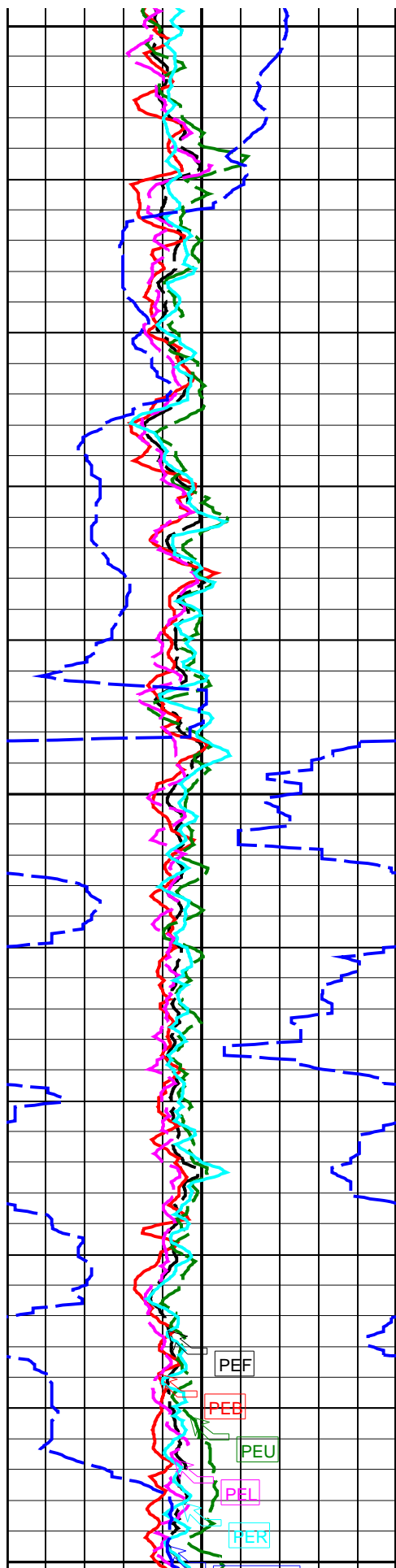


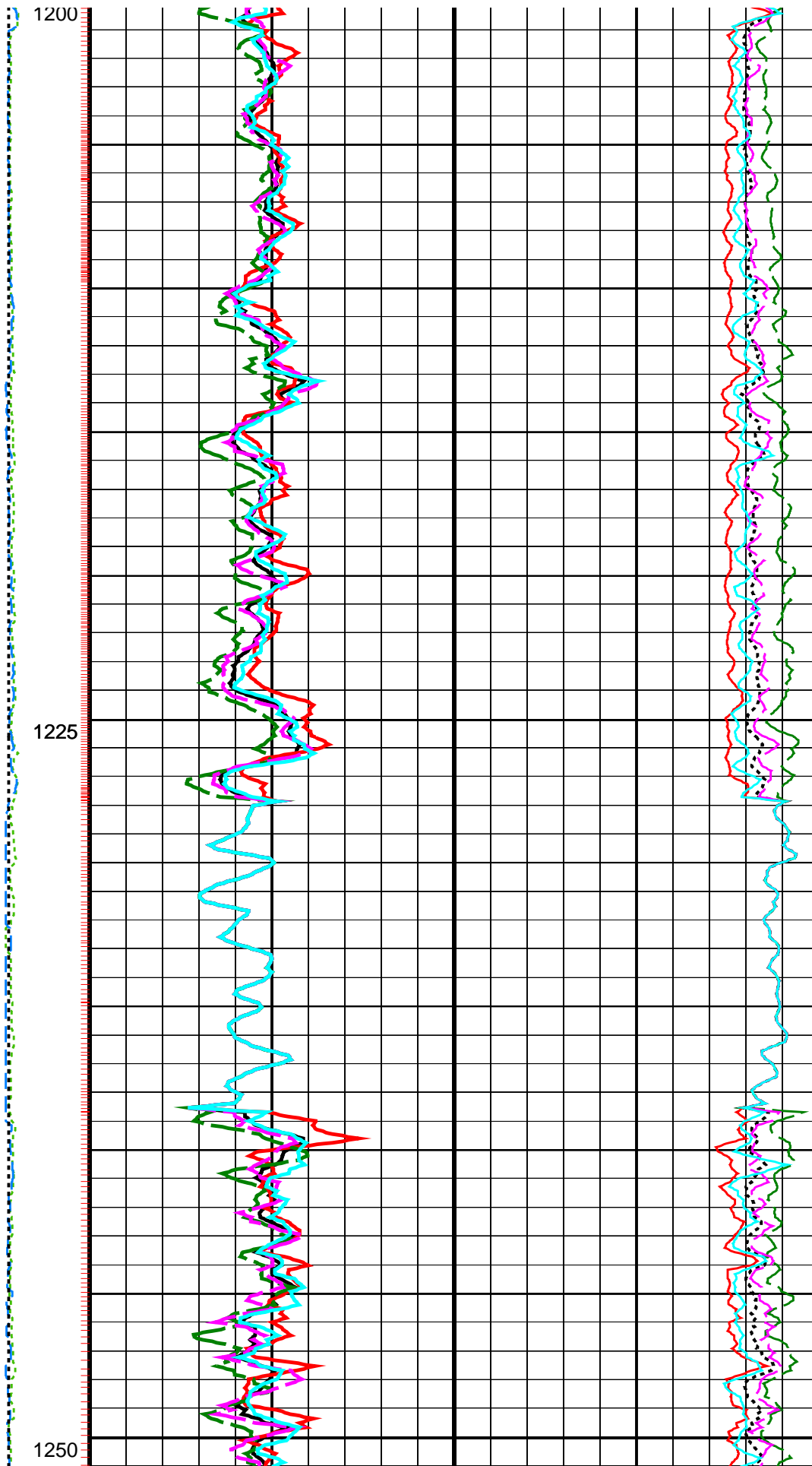
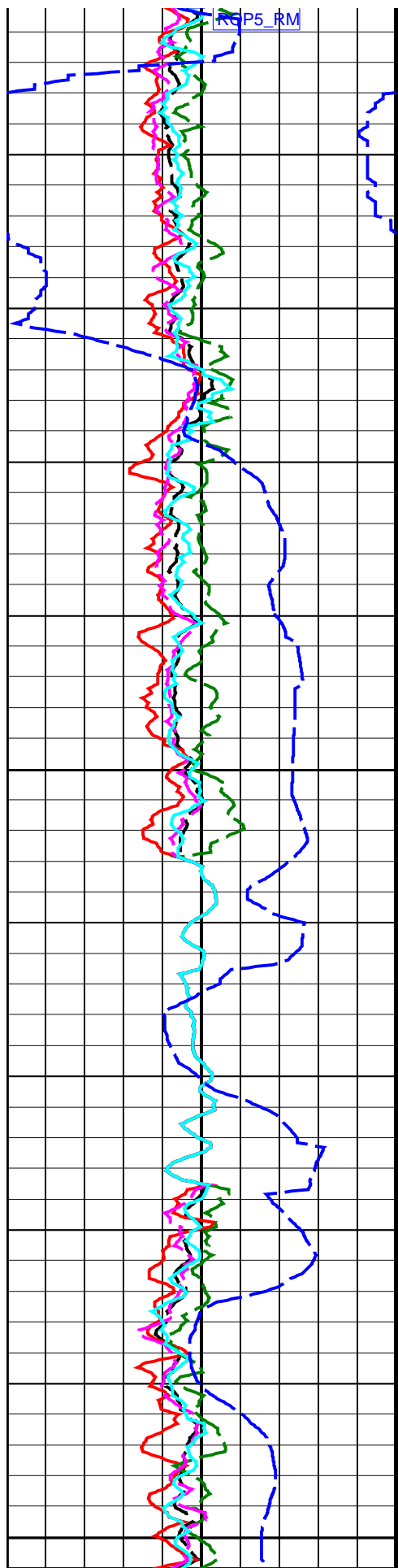


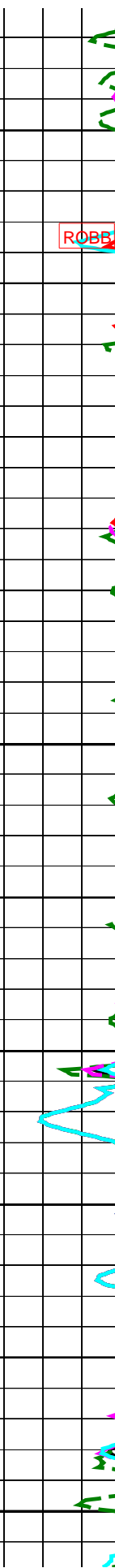
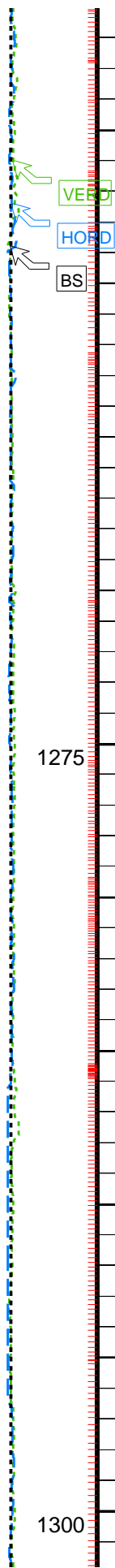
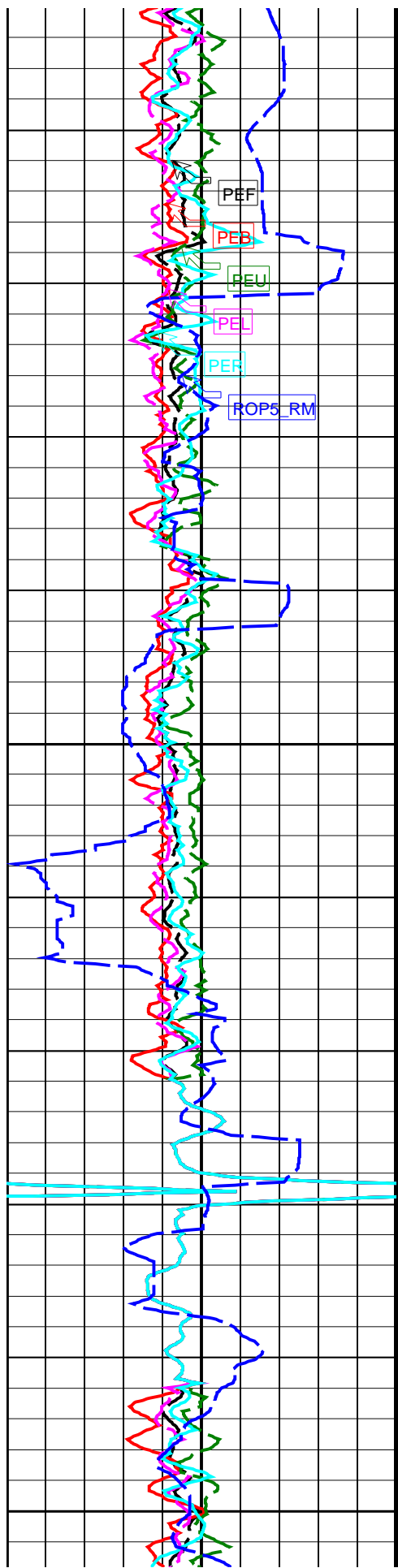


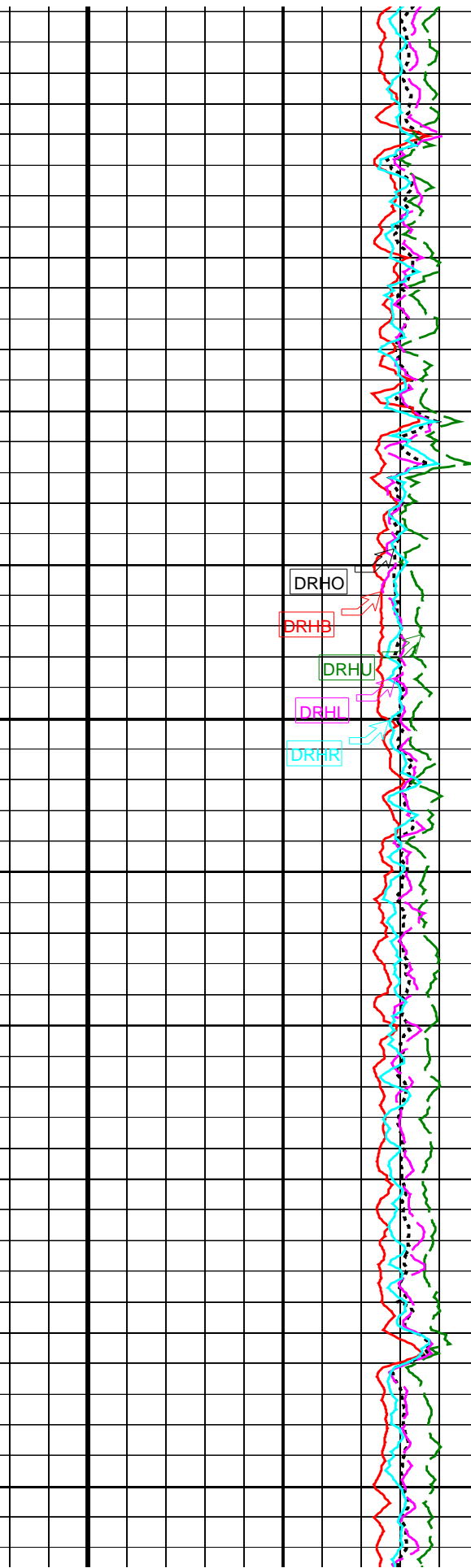
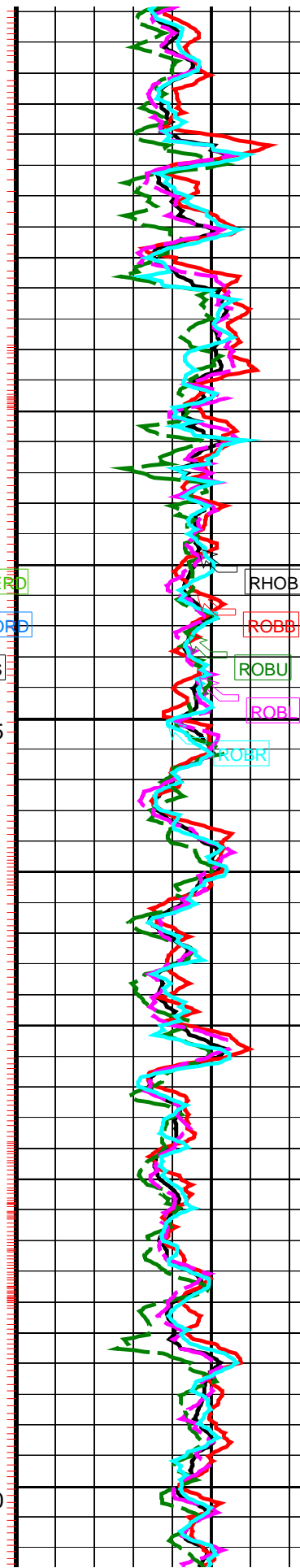
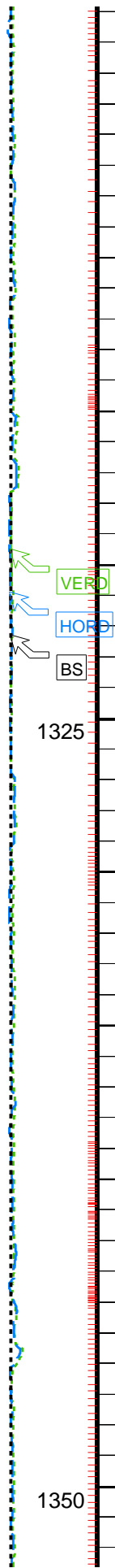
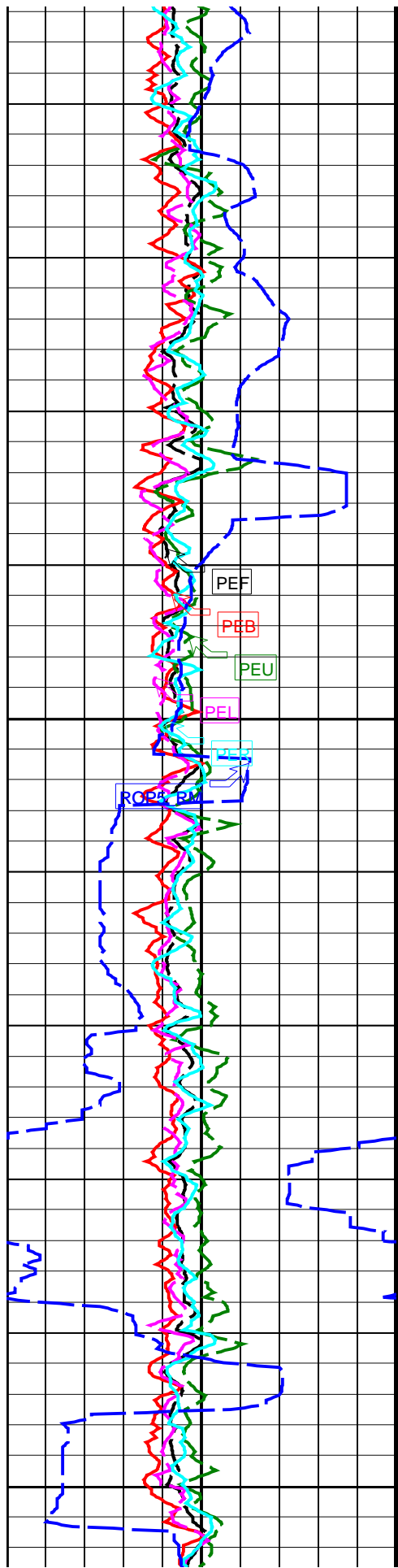


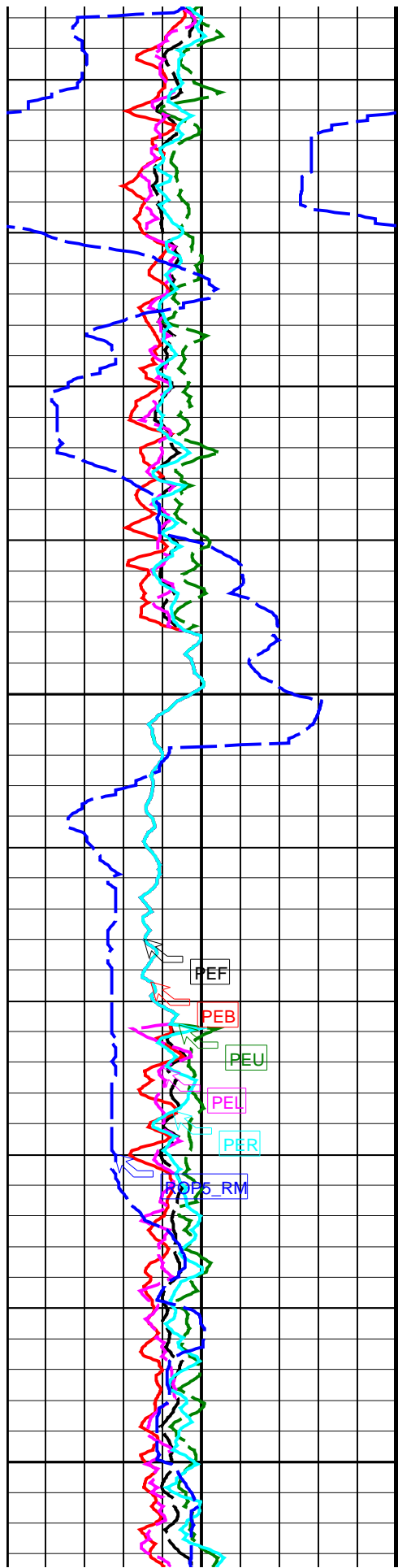






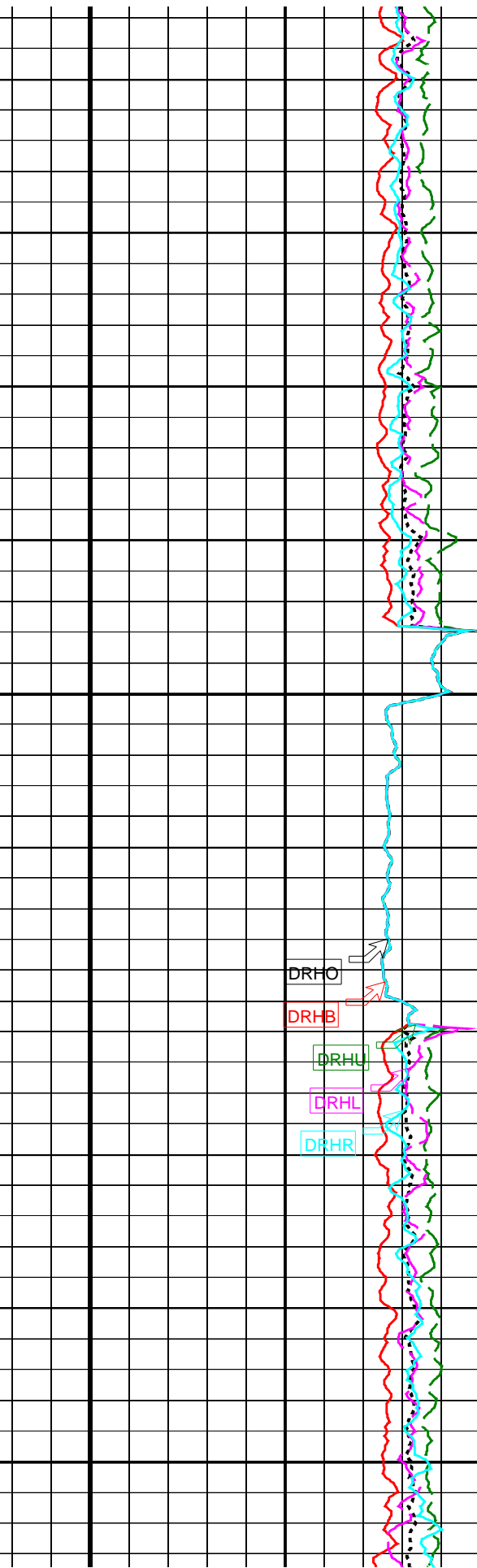
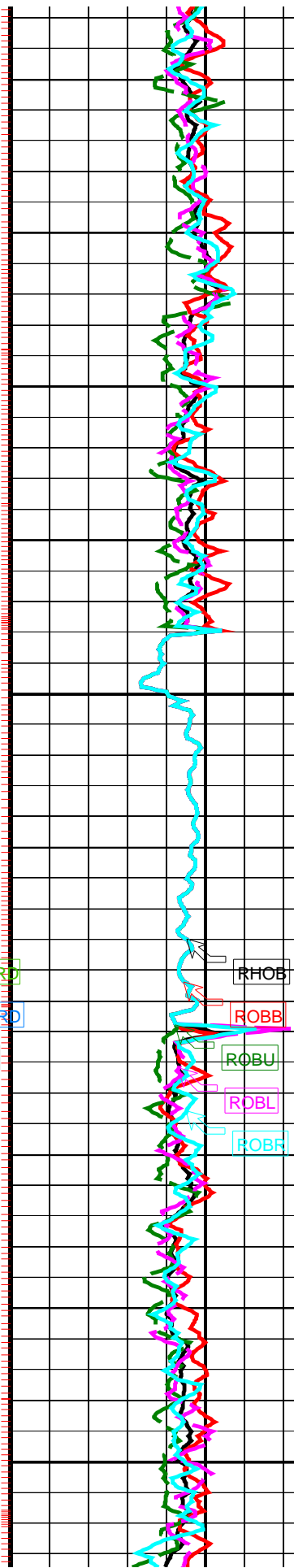


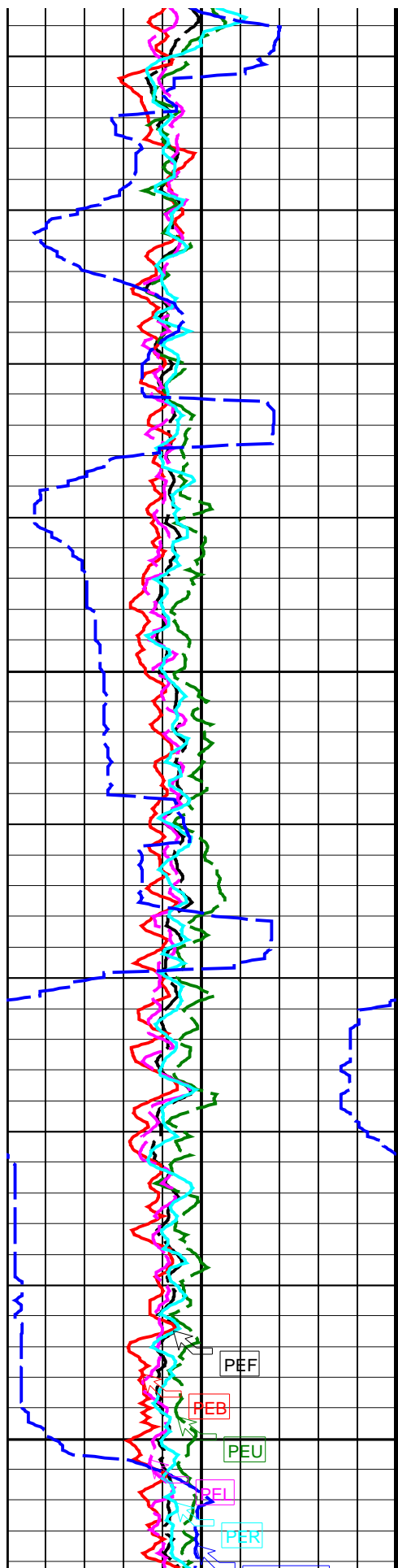




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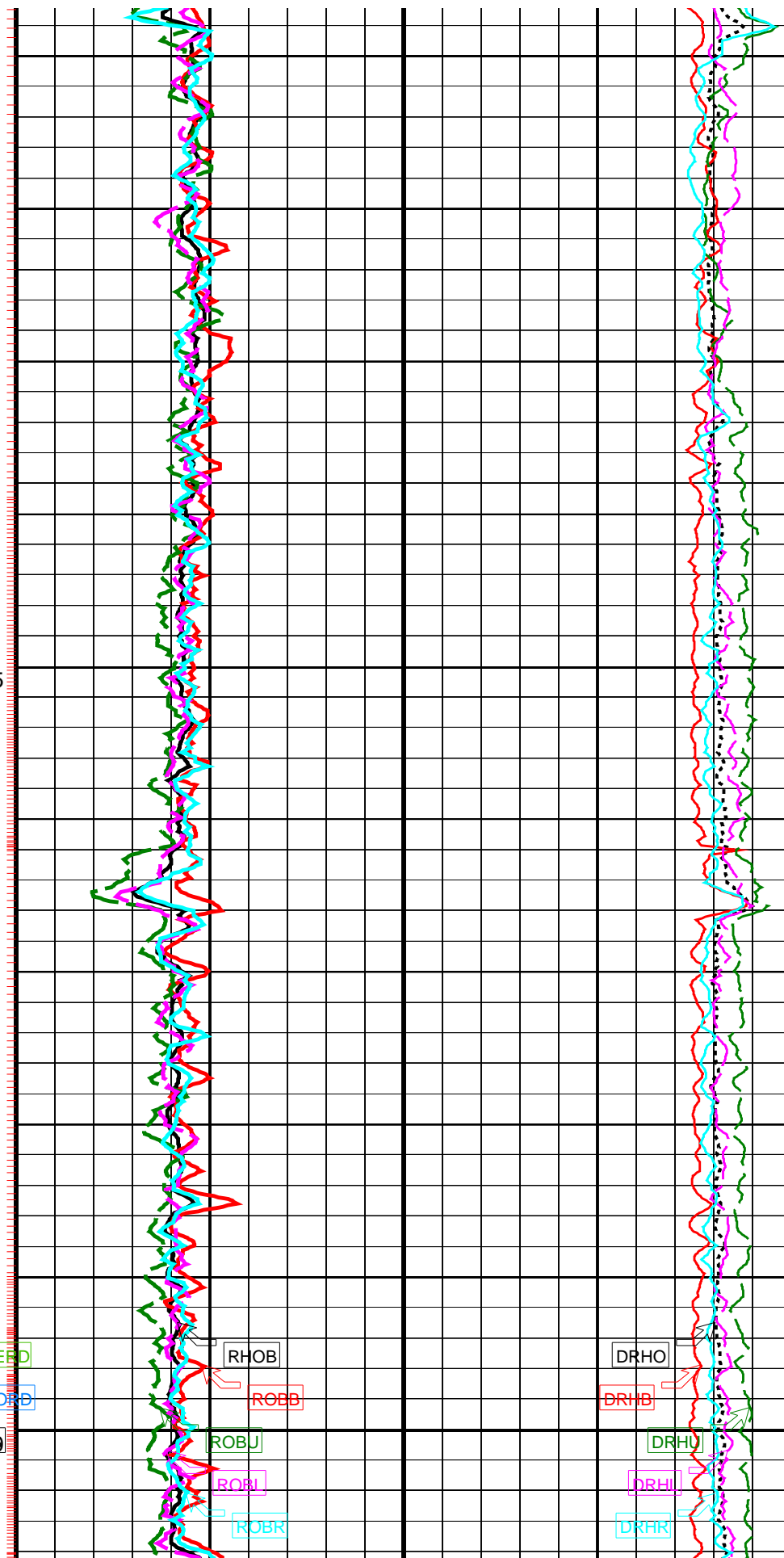
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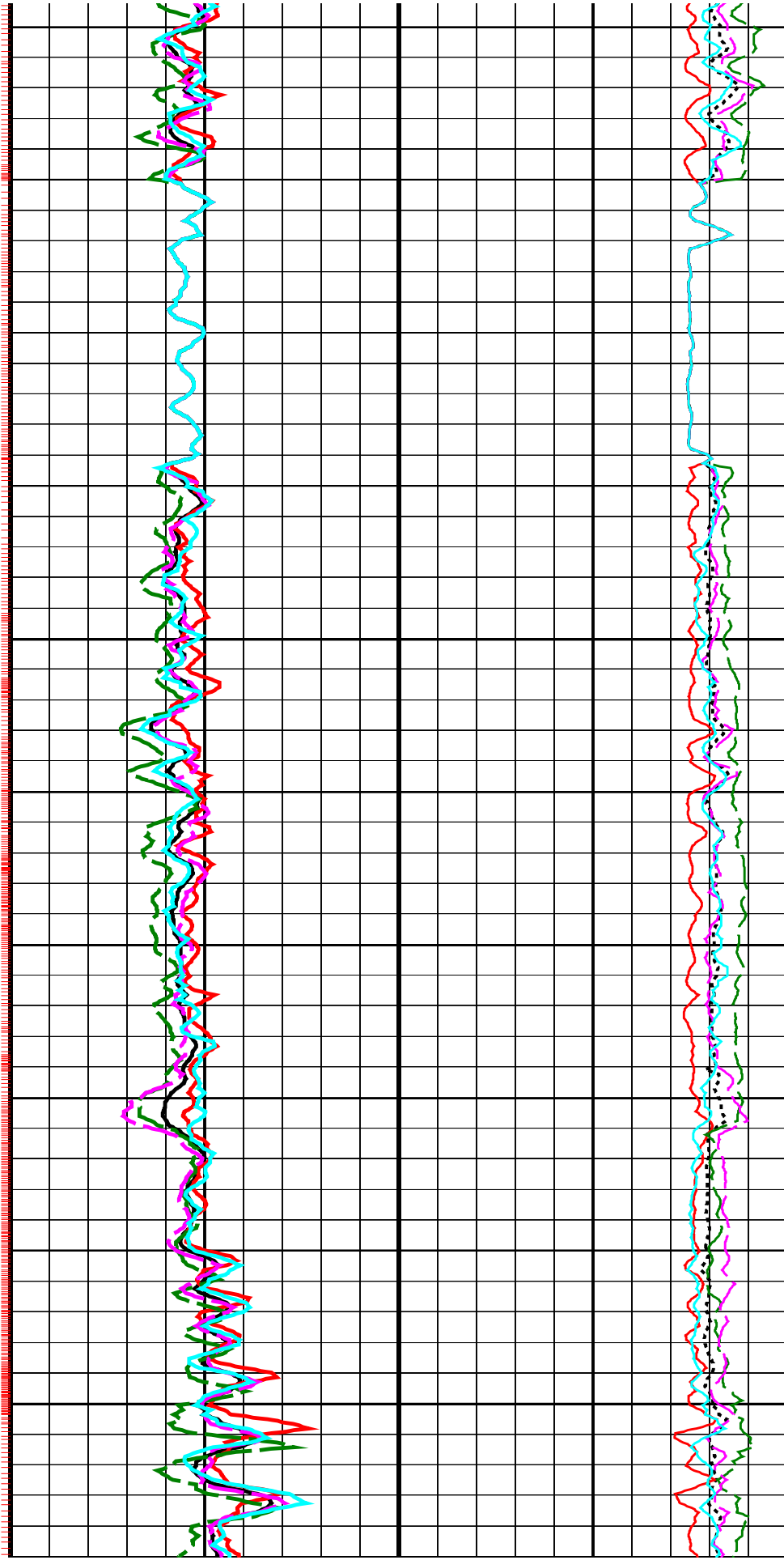
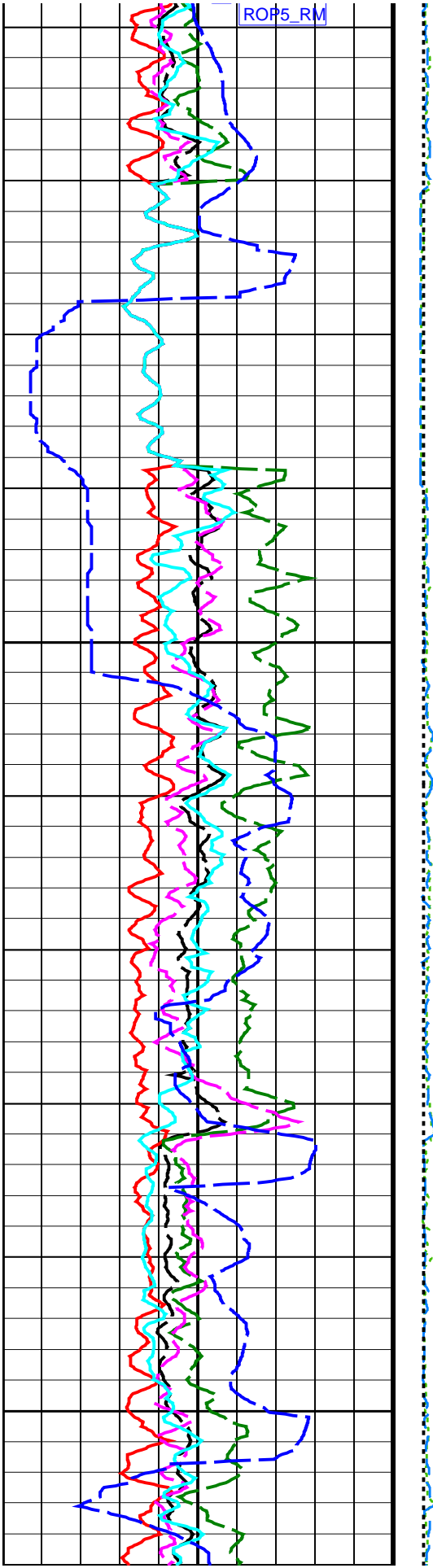


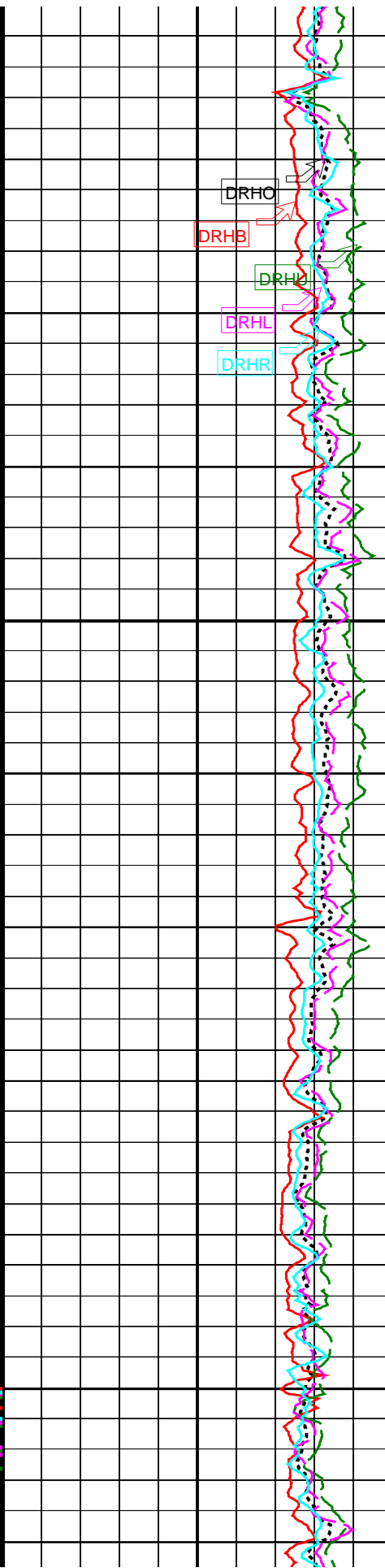
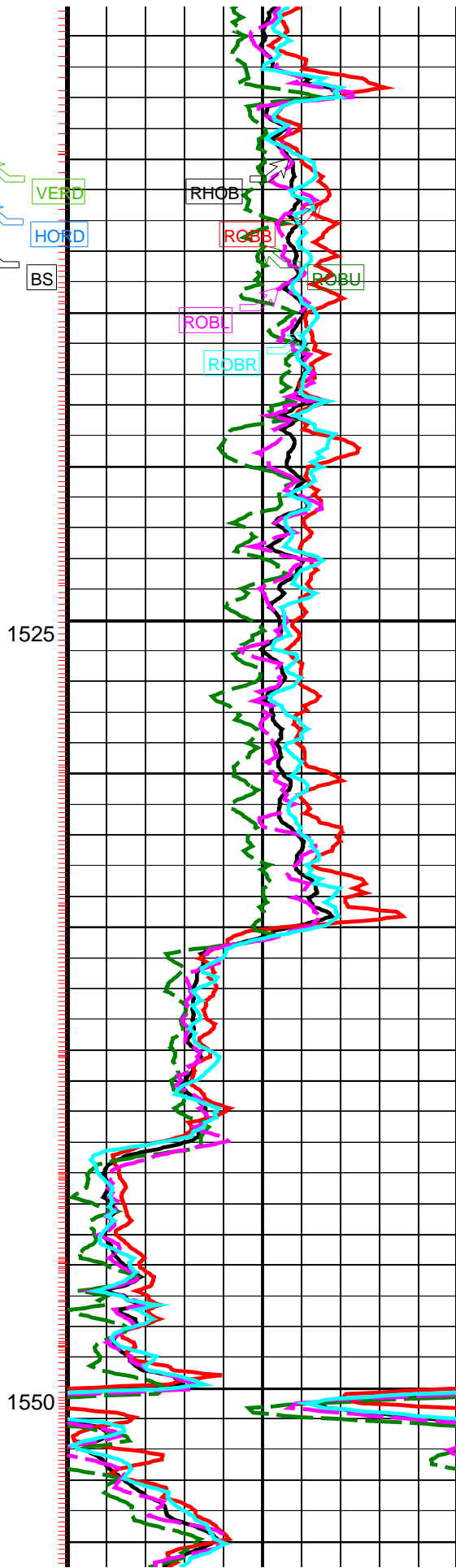
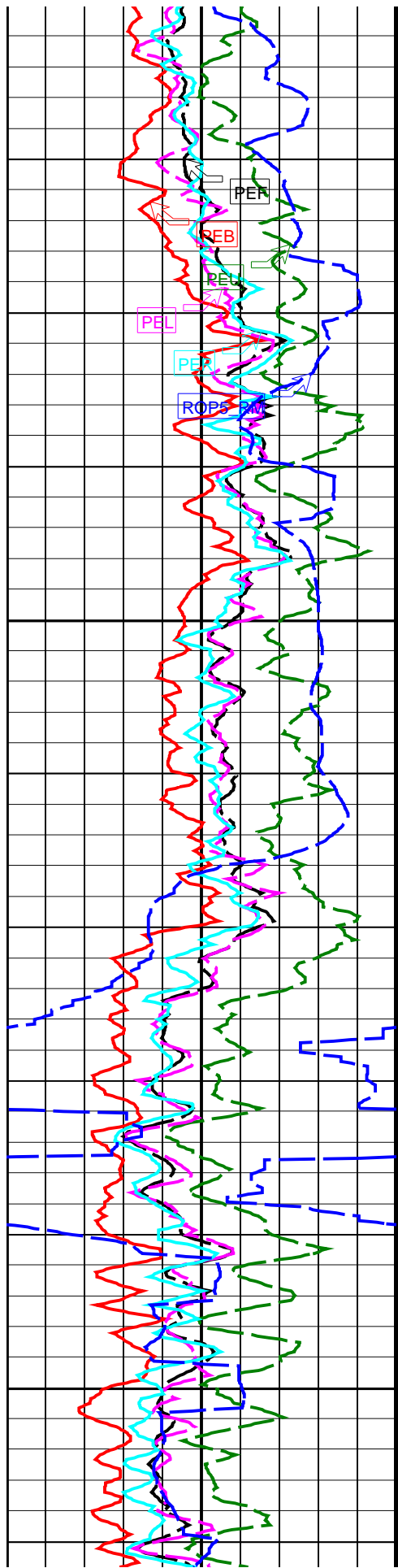


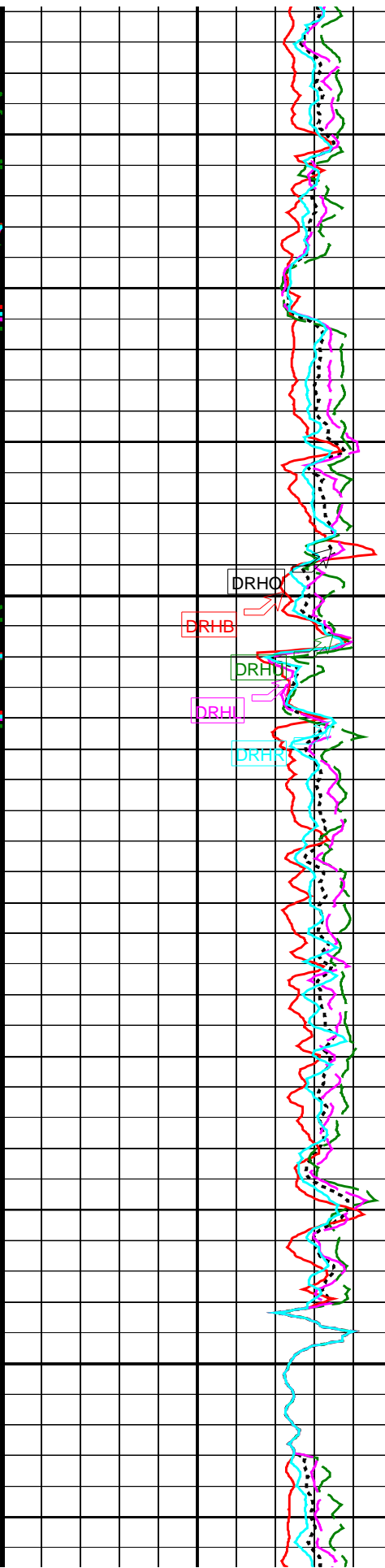
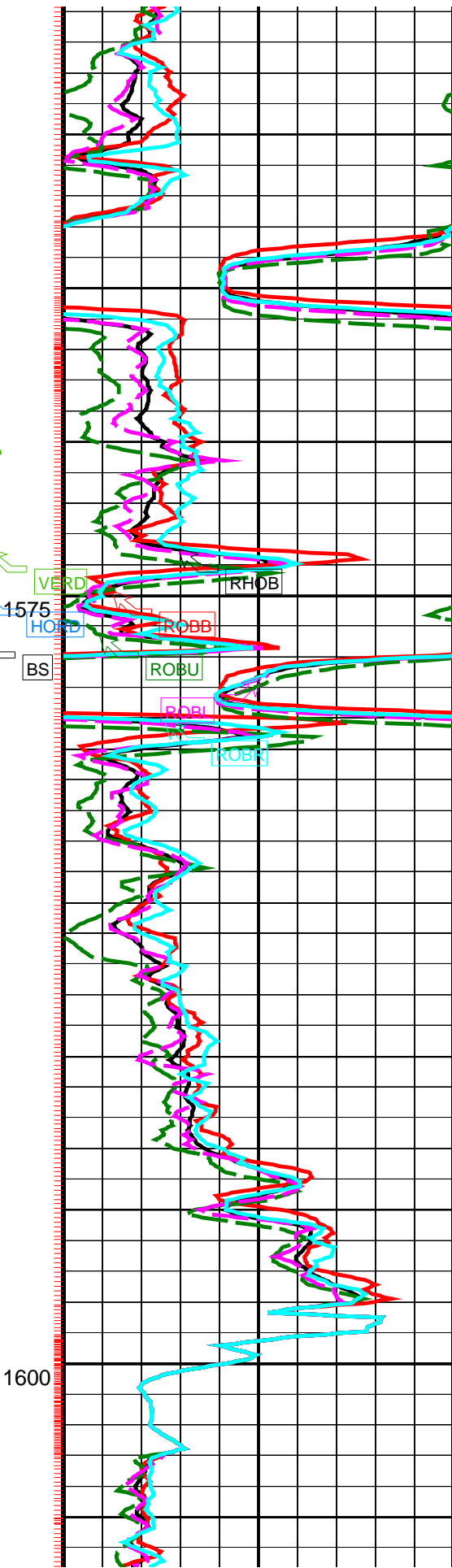
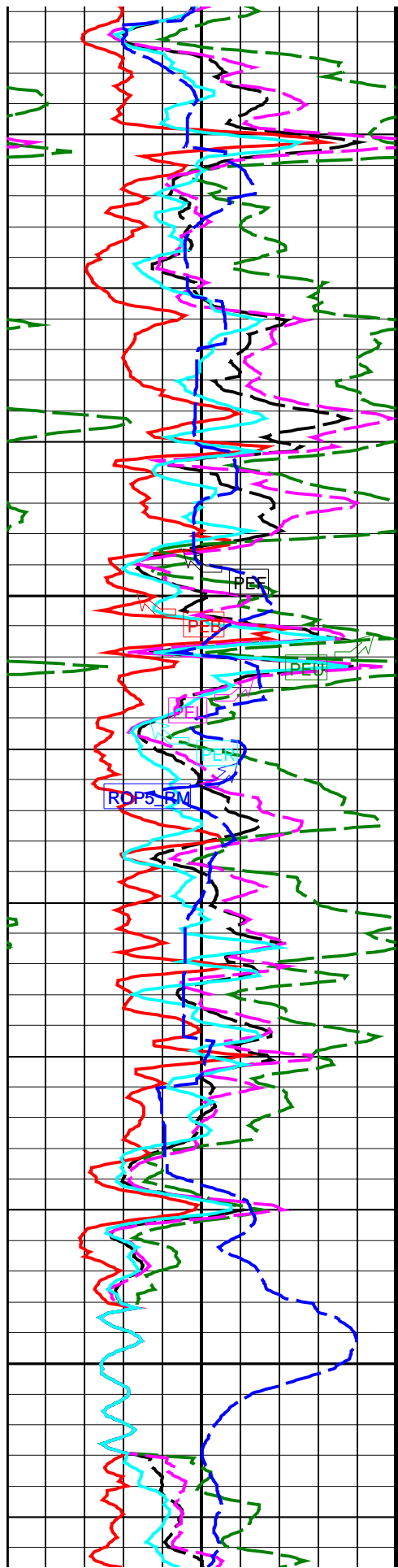
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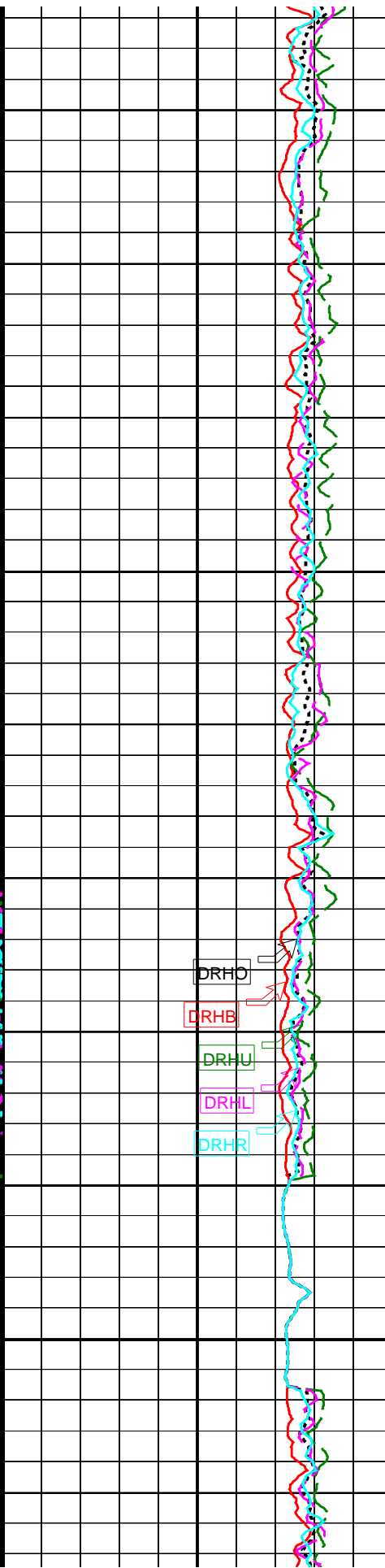
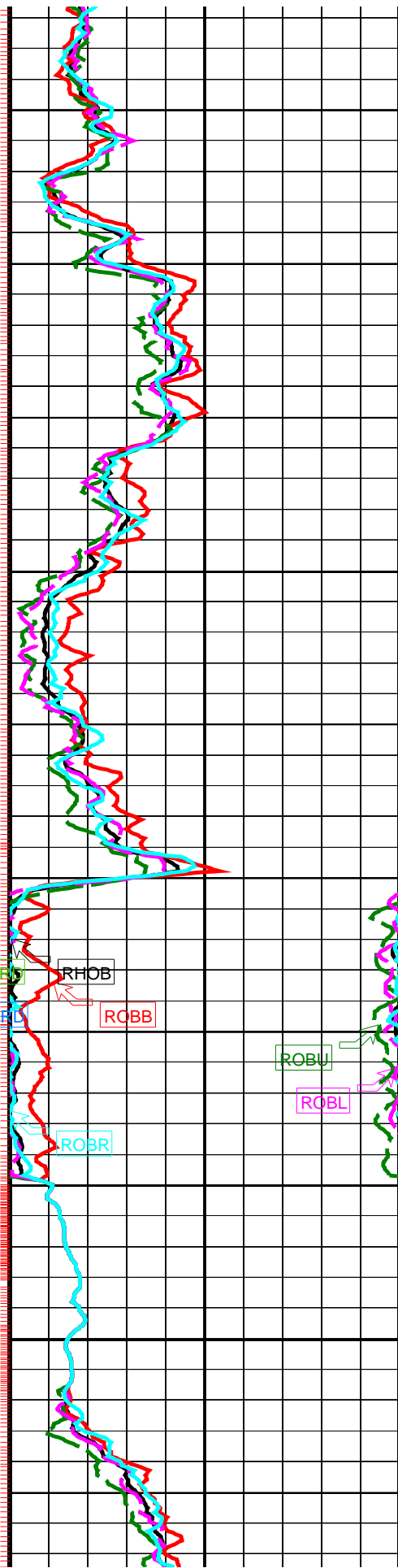
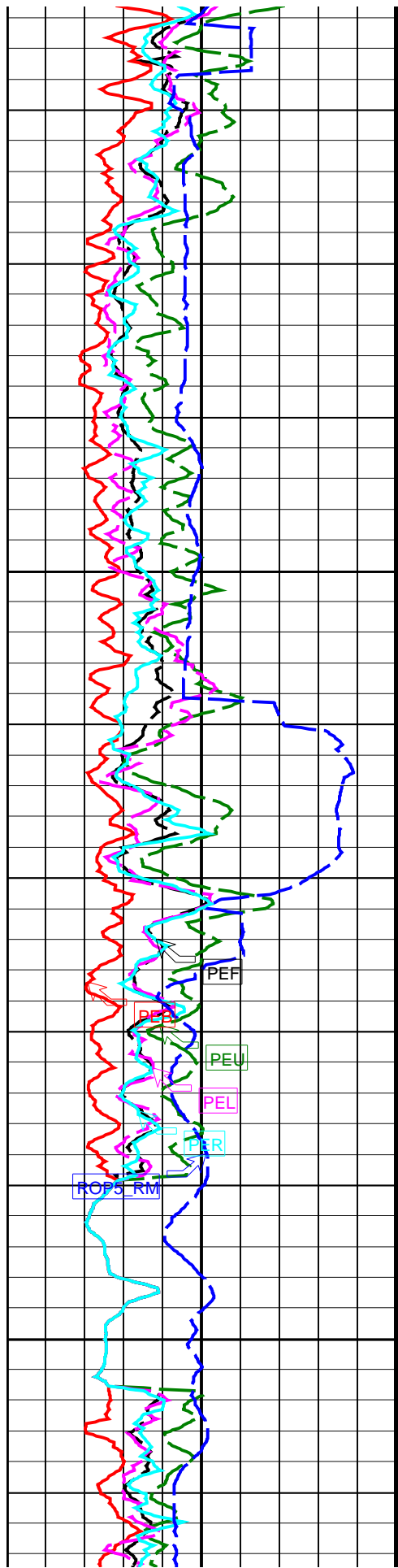
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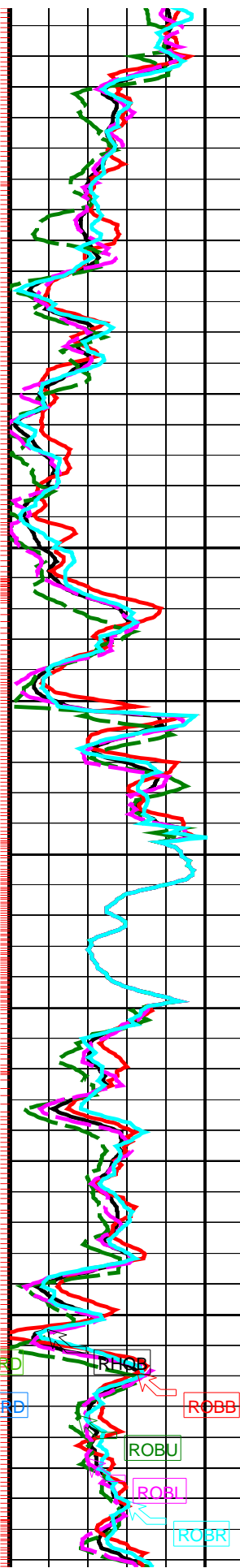
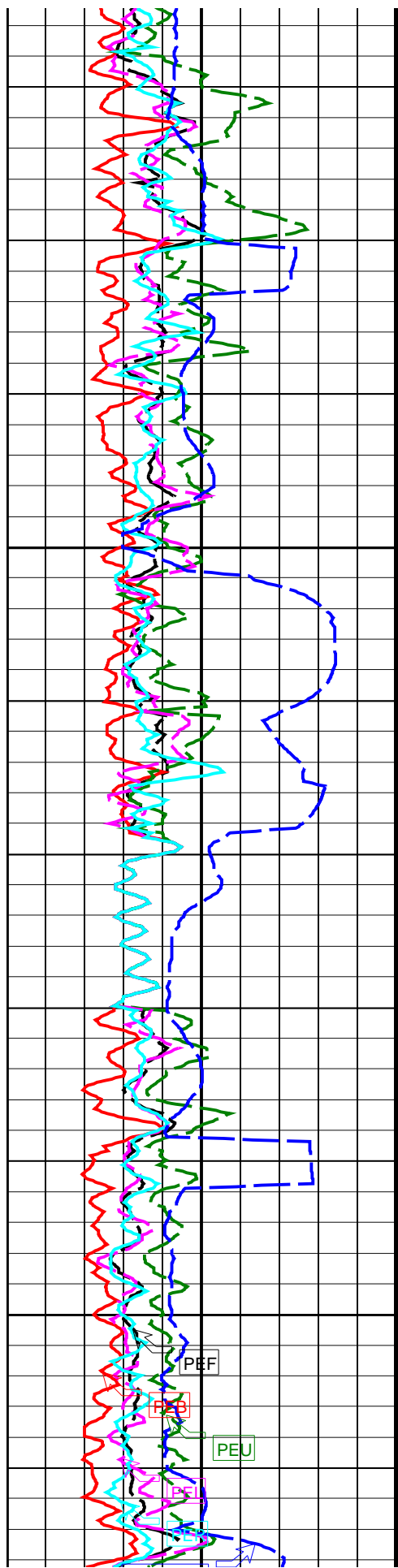


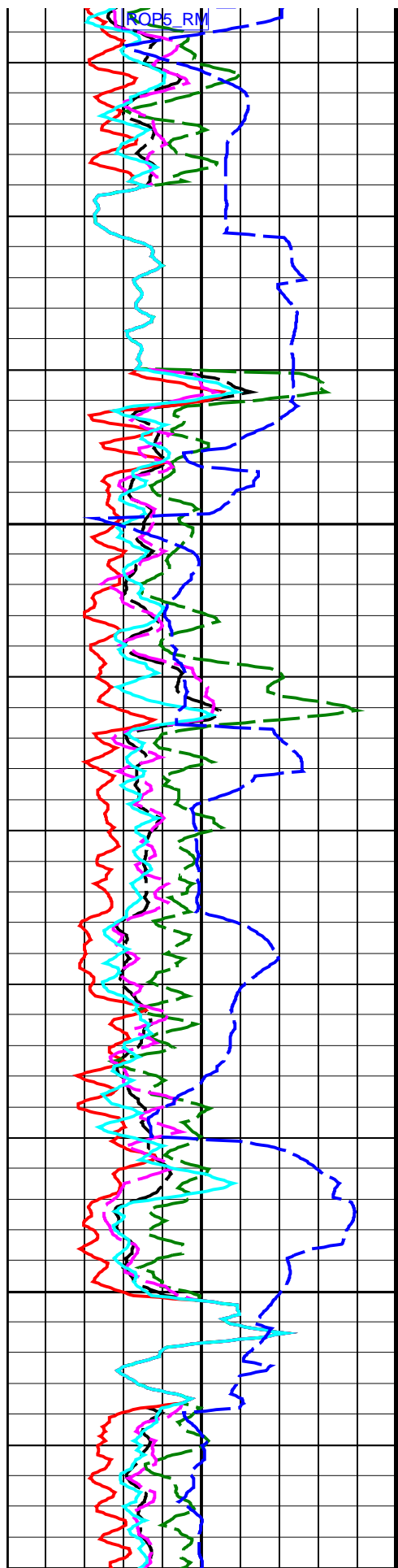




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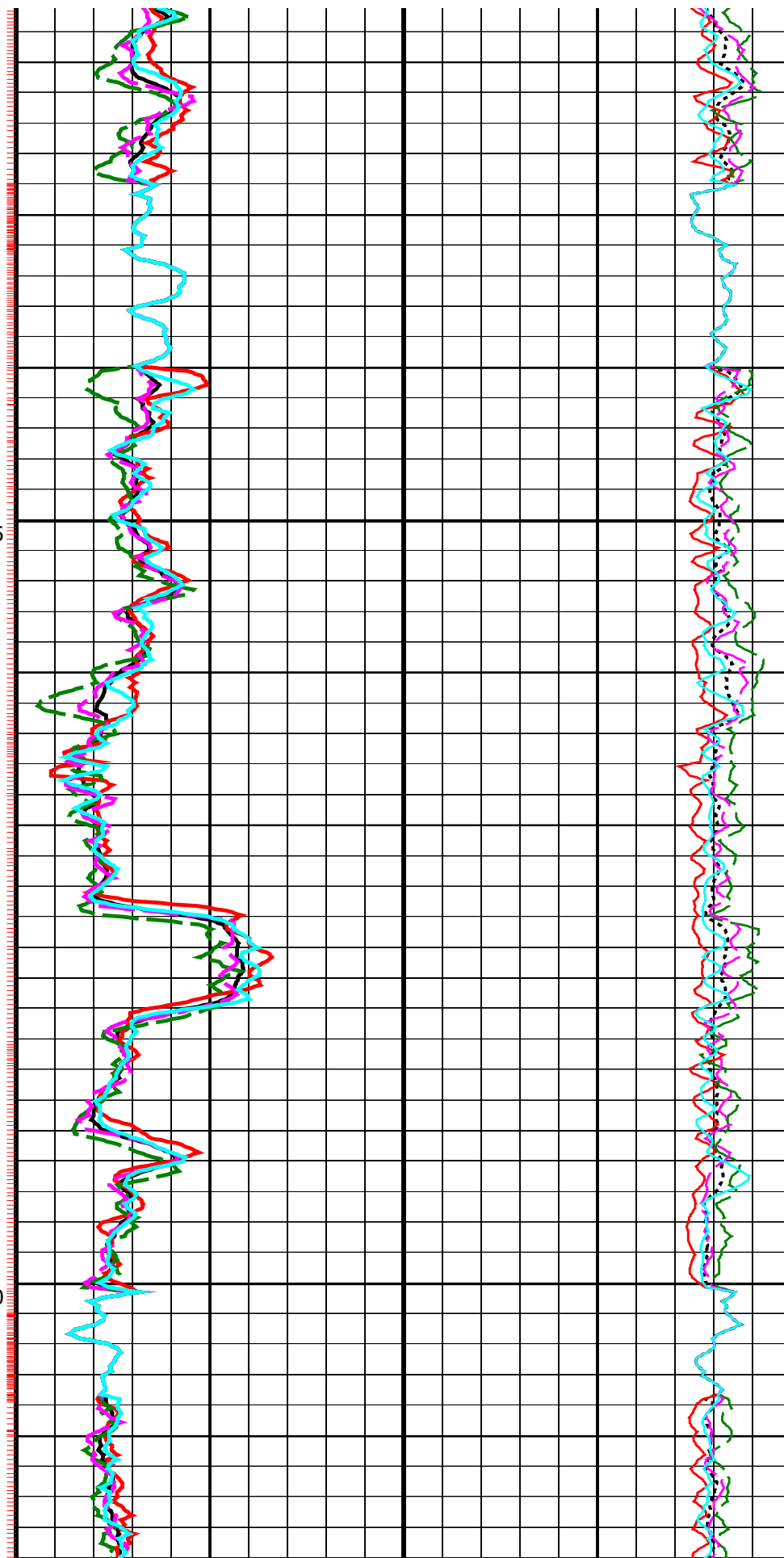


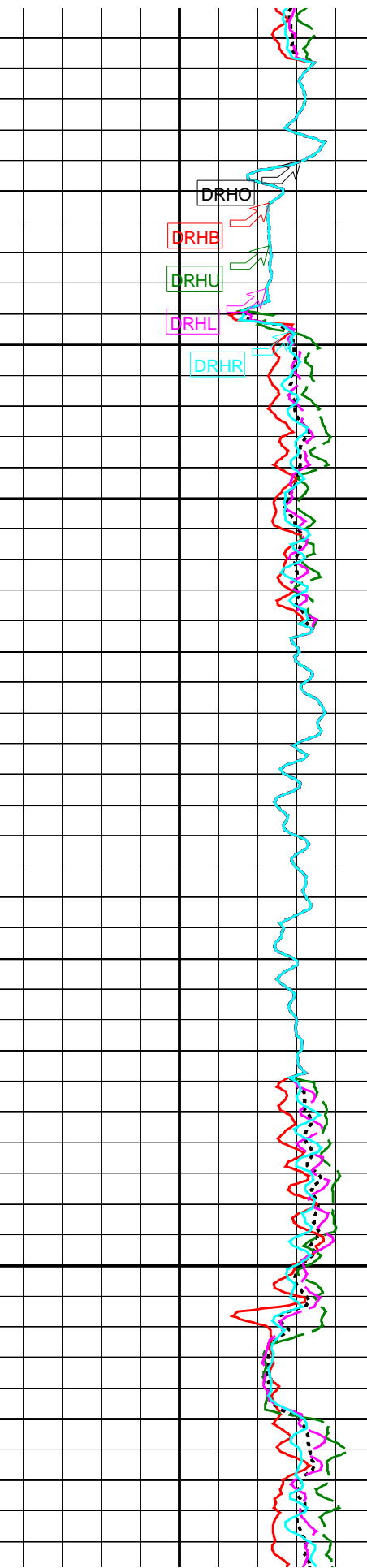
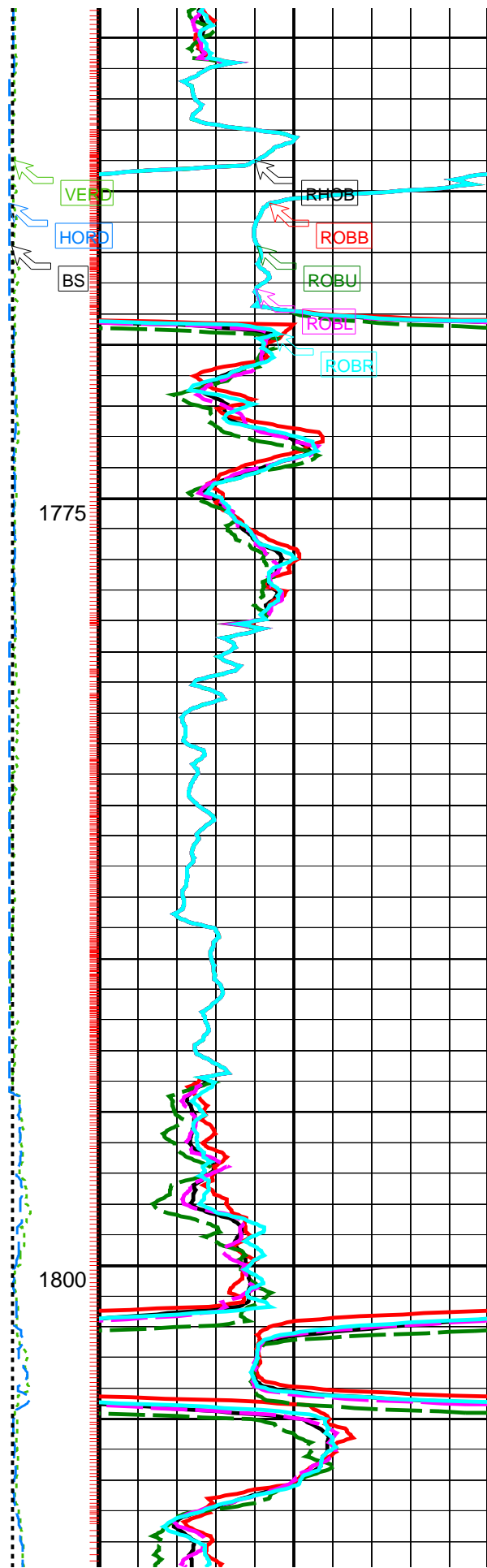
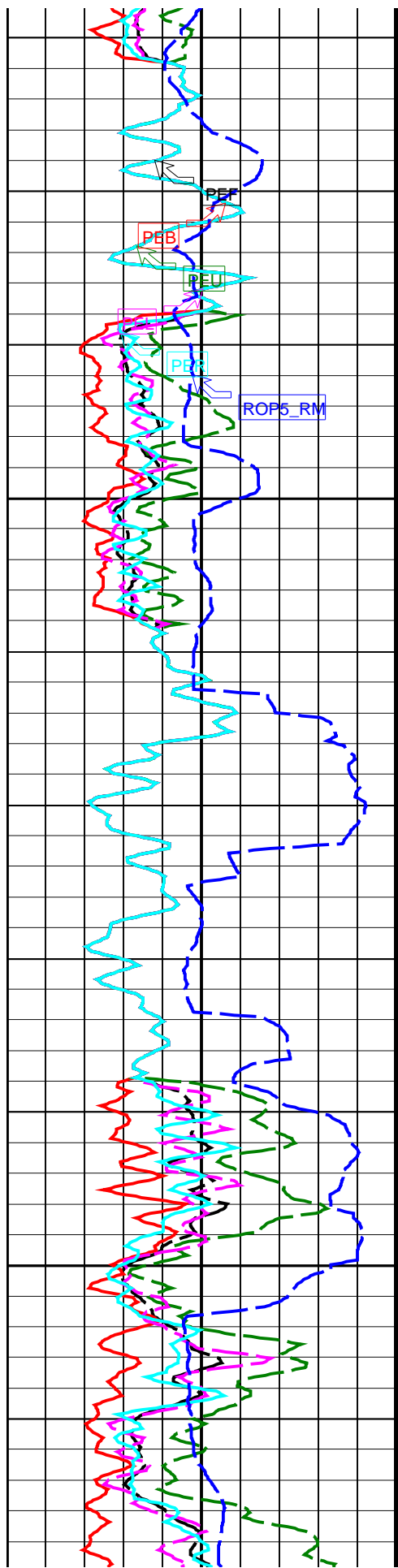




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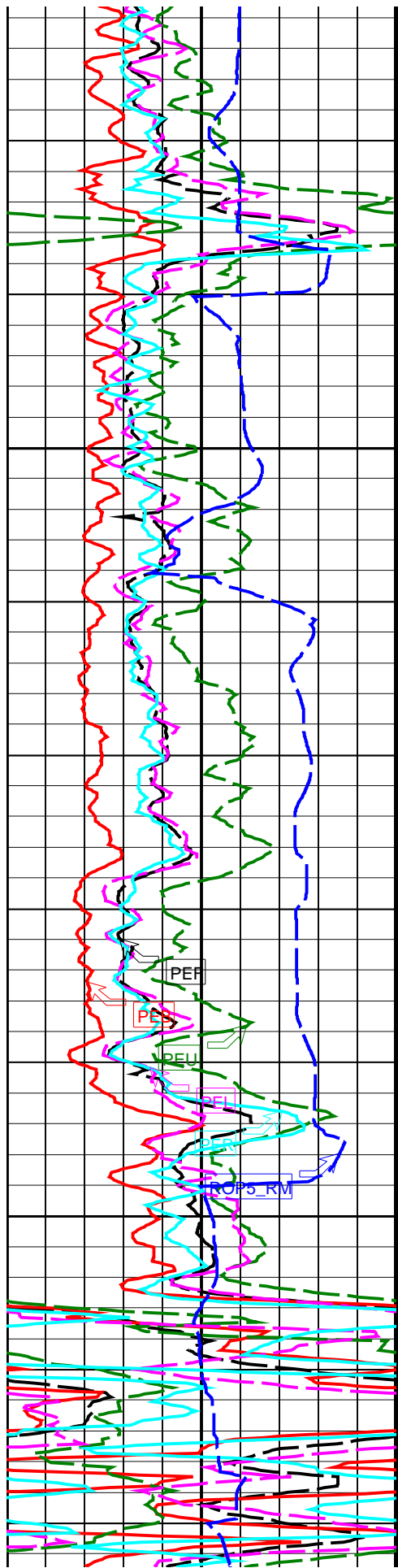






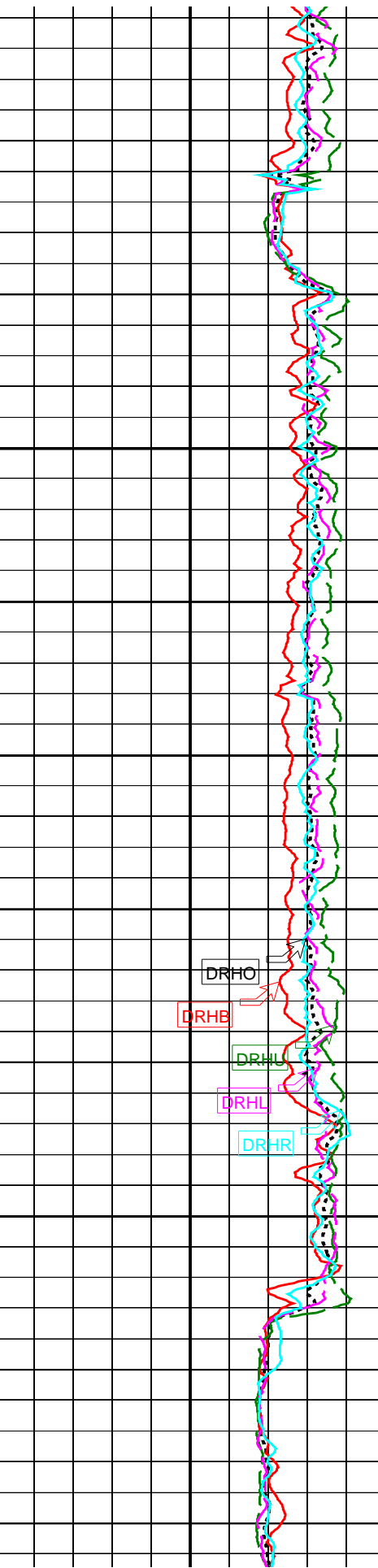
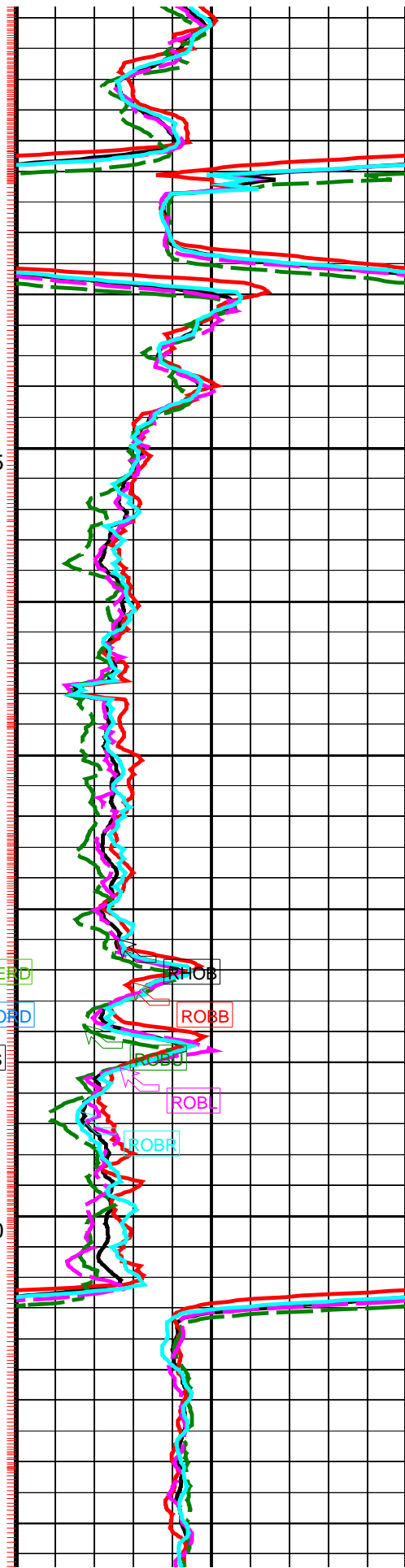




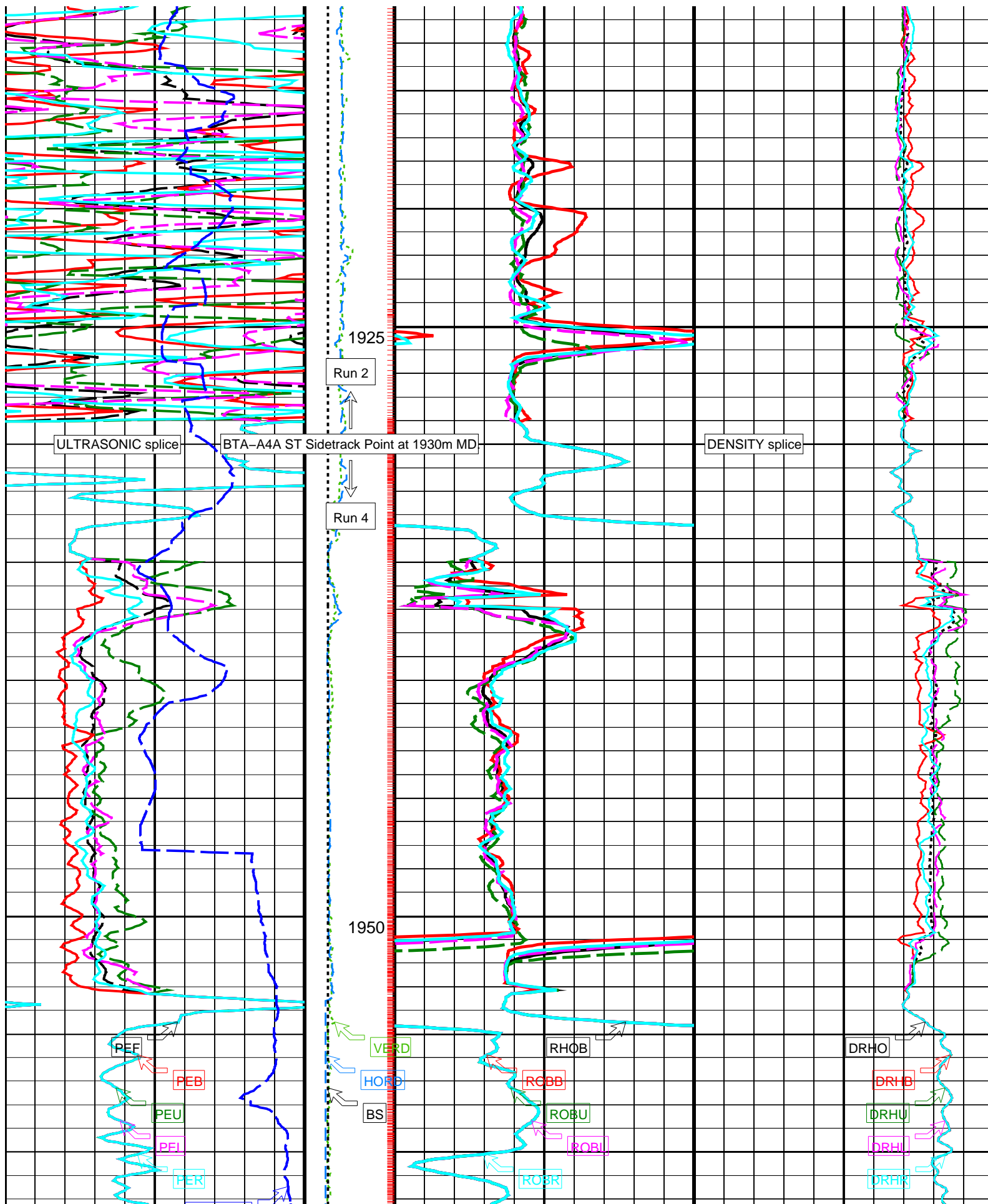


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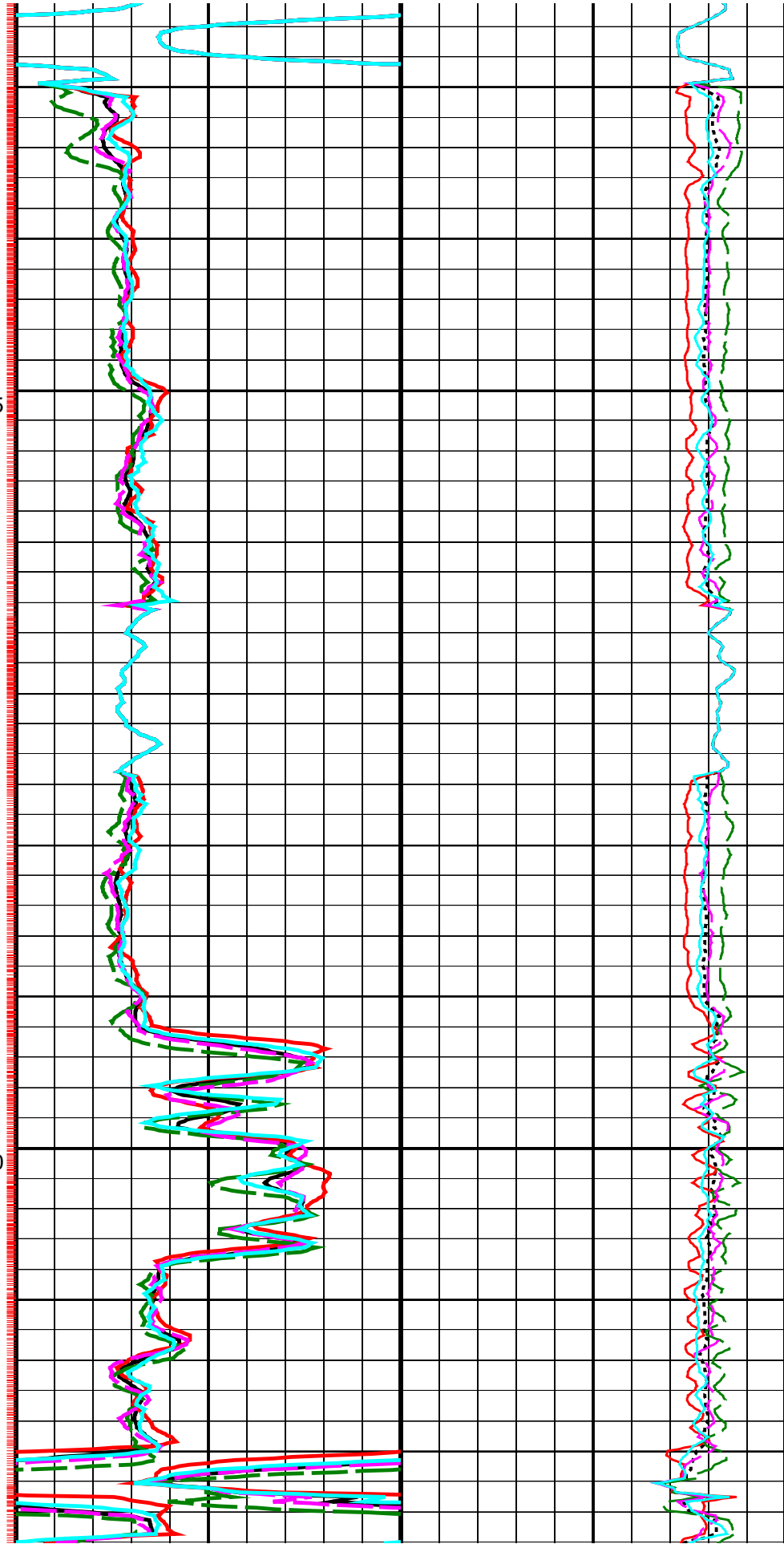
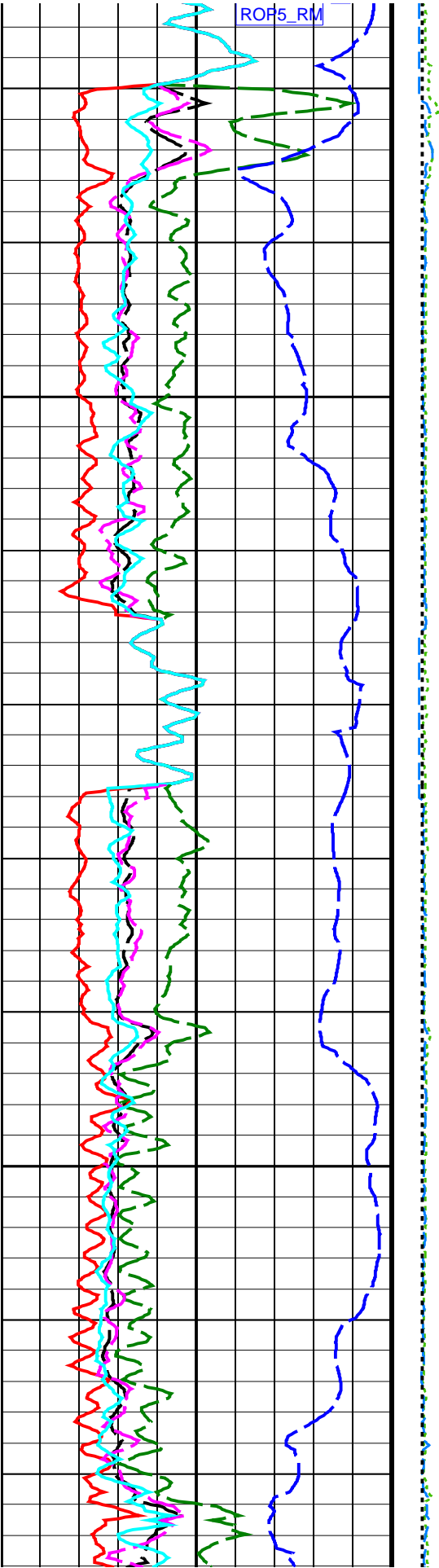
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DRHL  
DRHR

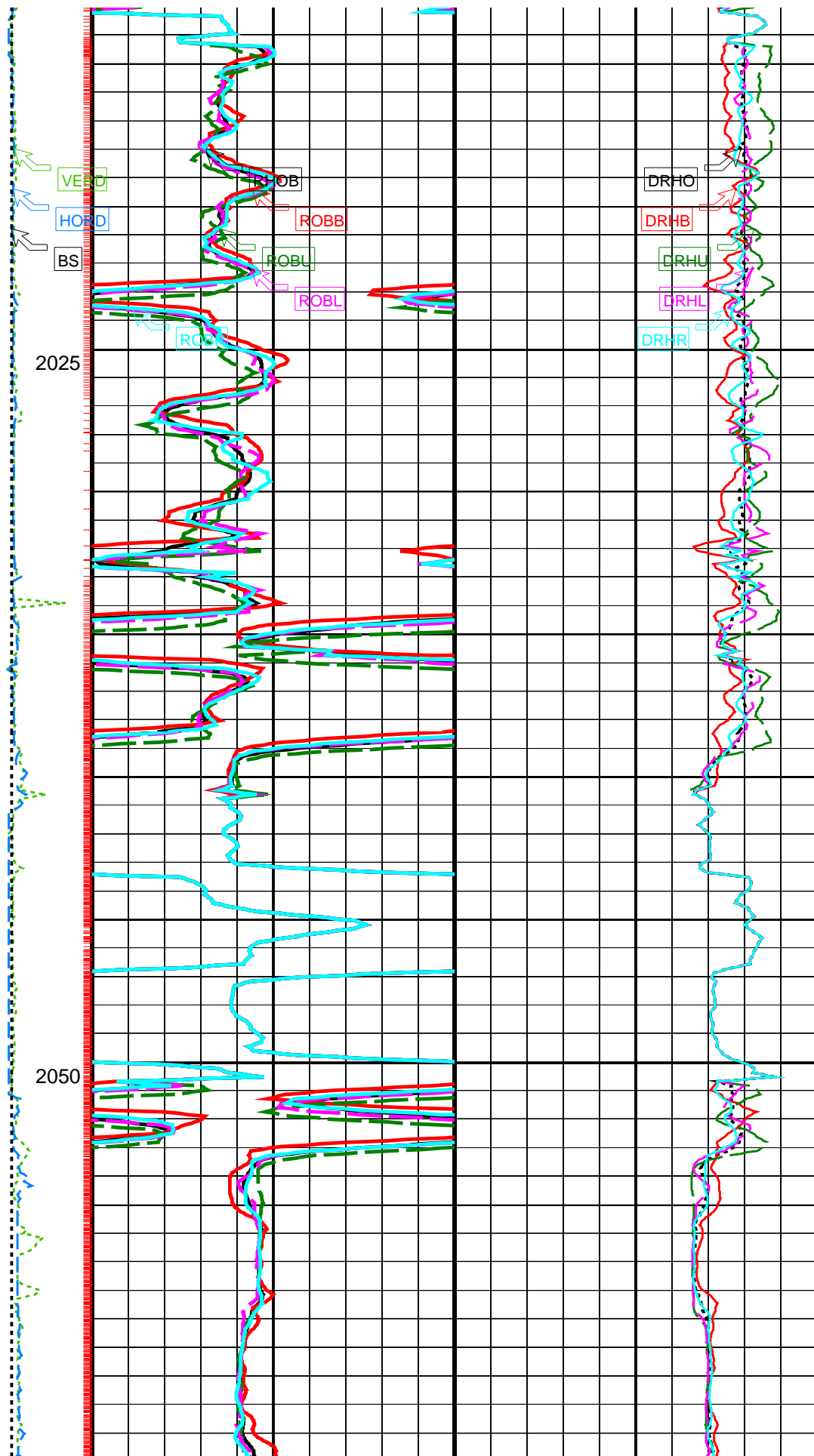
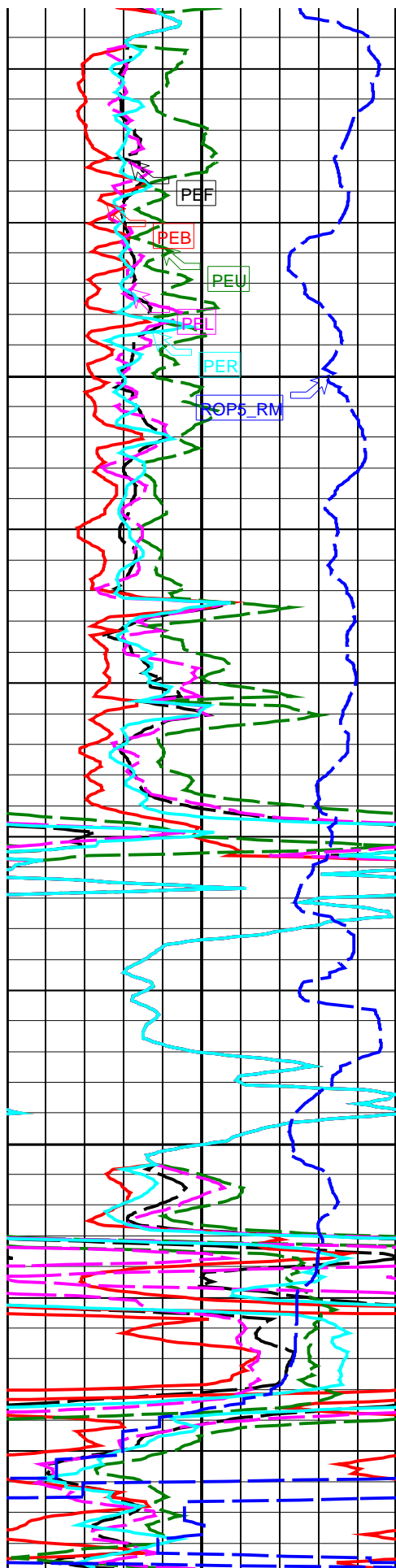


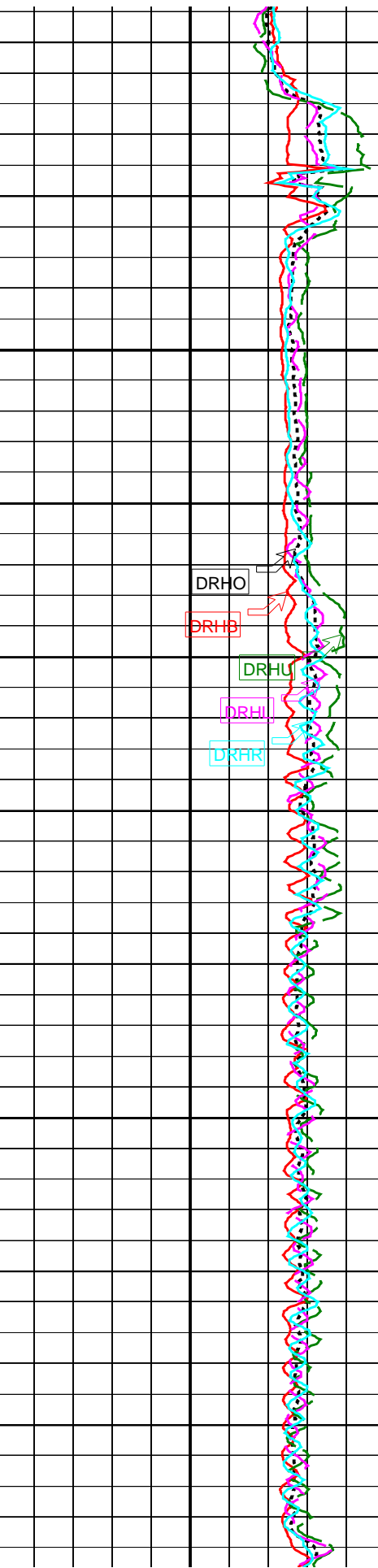
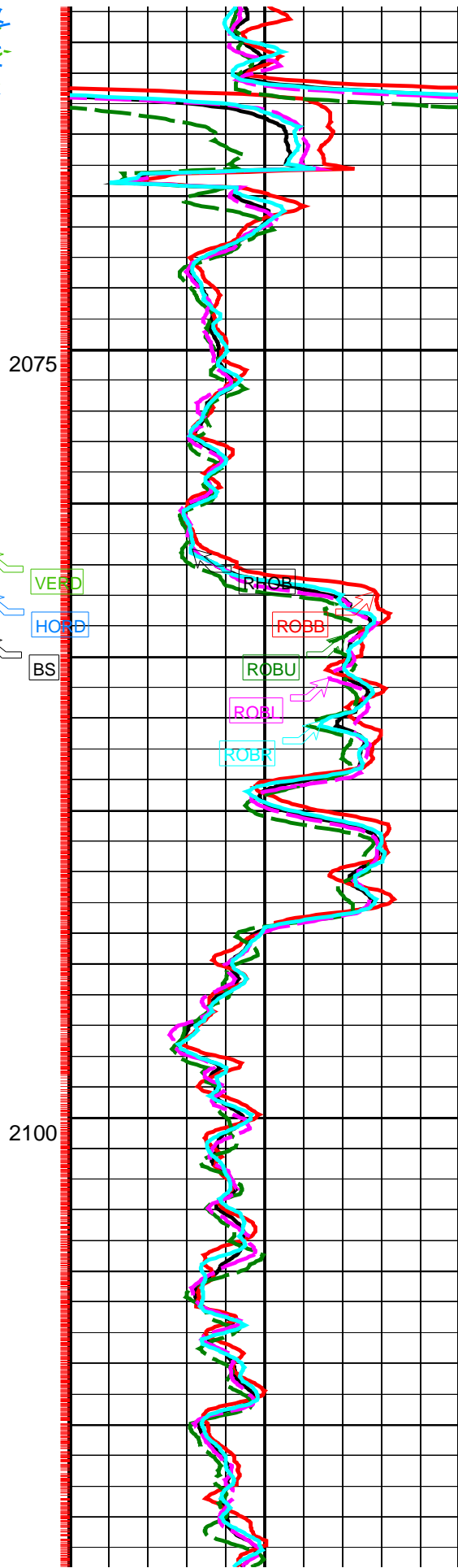
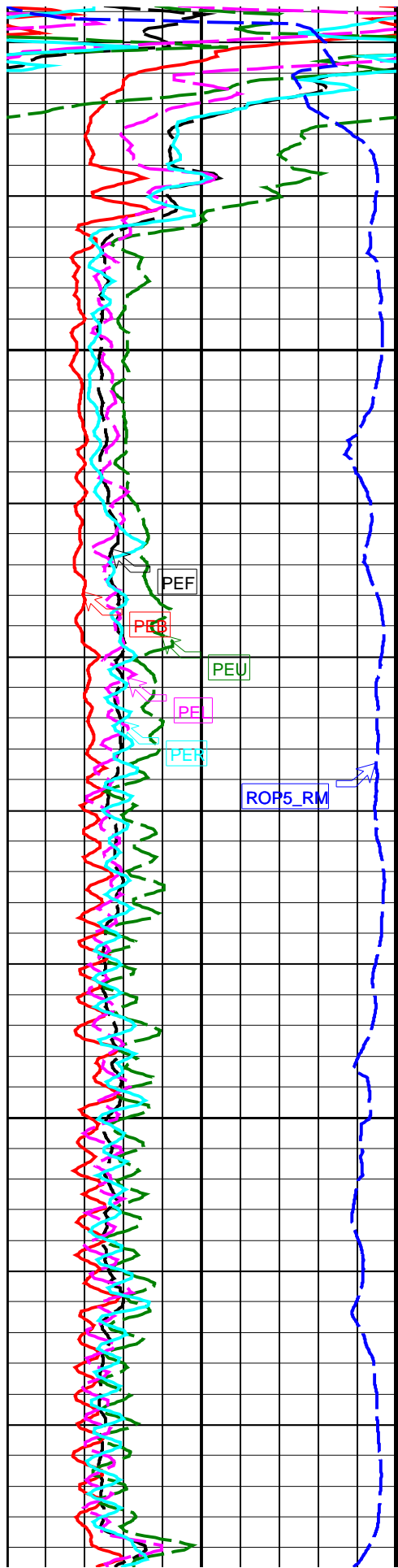
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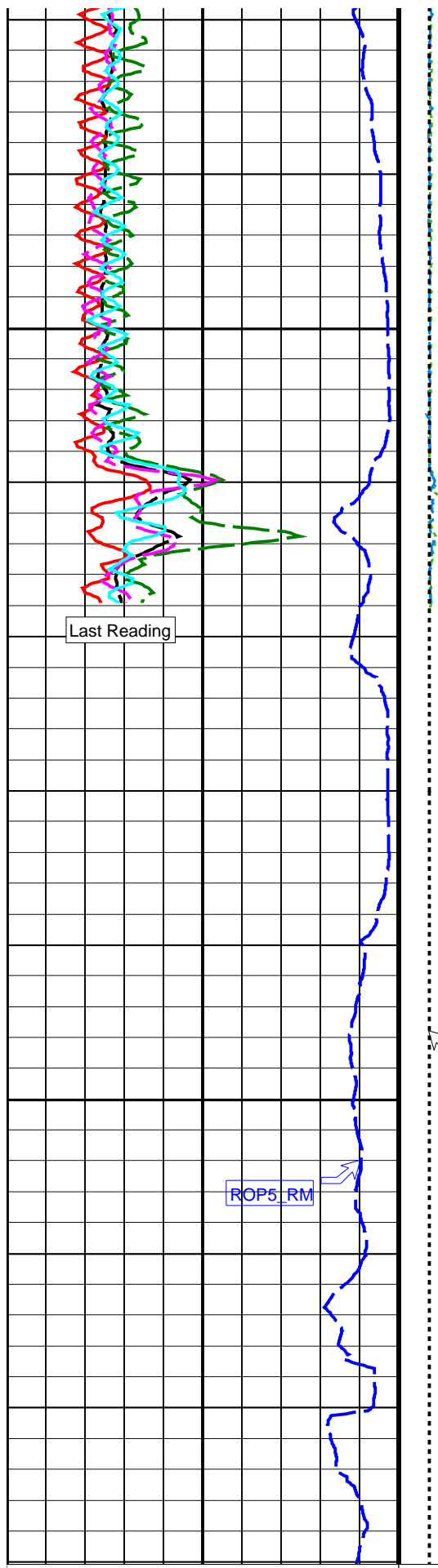
1975

2000





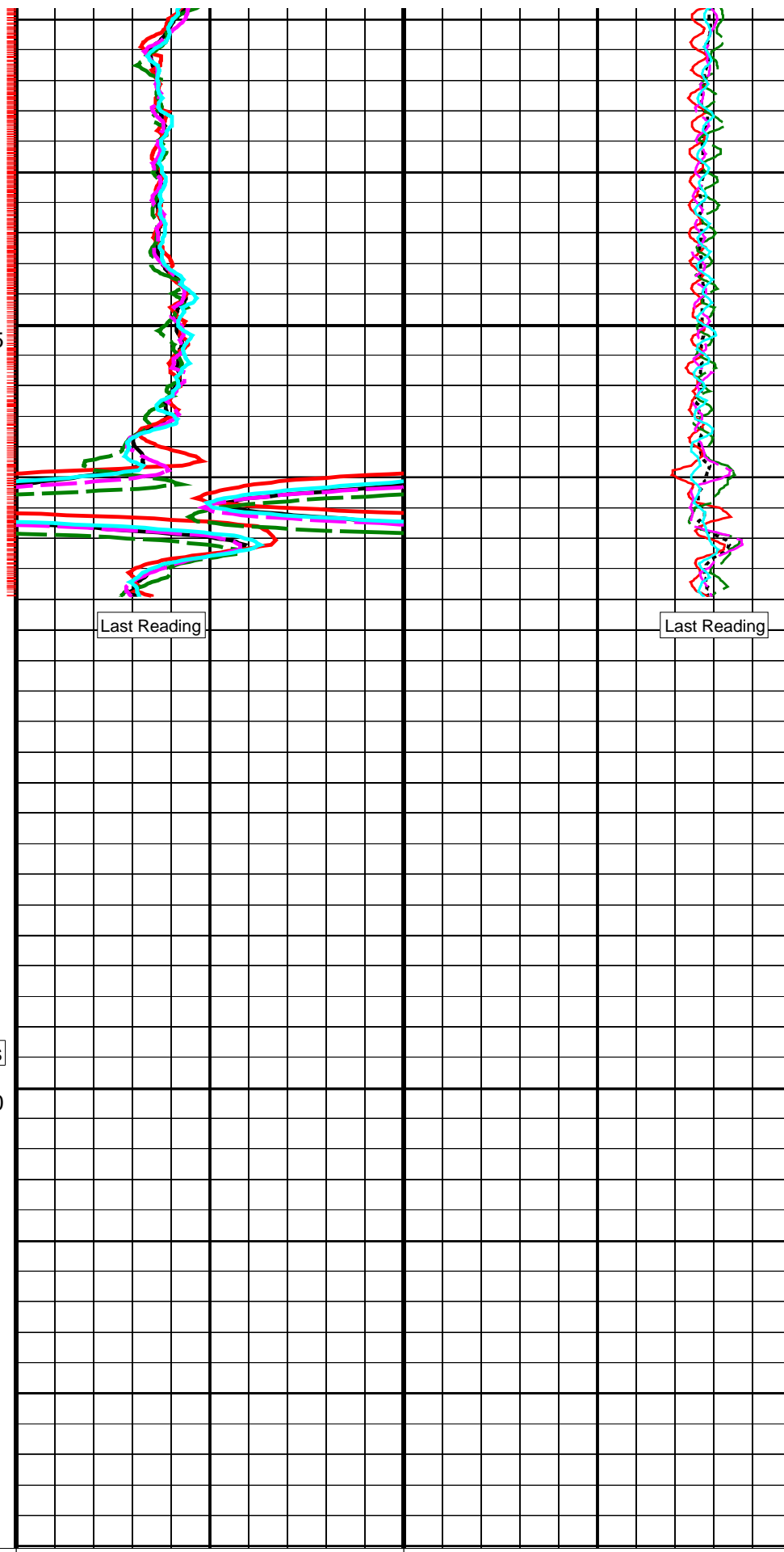




2125

BS

2150



Photoelectric Factor (PEF)			Bit Size (BS) (IN)	Bulk Density (RHOB)			Bulk Density Correction (DRHO)		
0	(----	10		1.85	(G/C3)	2.85	-0.75	(G/C3)	0.25
Photoelectric Factor, Bottom (PEB)			Vertical Hole Diameter (VERD) (IN)	Bulk Density, Bottom (ROBB)			Bulk Density Correction, Bottom (DRHB)		
0	(----	10		1.85	(G/C3)	2.85	-0.75	(G/C3)	0.25
Photoelectric Factor, Up (PEU)			Horizontal Hole Diameter (HORD) (IN)	Bulk Density, Up (ROBU)			Bulk Density Correction, Up (DRHU)		
0	(----	10		1.85	(G/C3)	2.85	-0.75	(G/C3)	0.25
Photoelectric Factor, Left (PEL)				Bulk Density, Left (ROBL)			Bulk Density Correction, Left (DRHL)		
0	(----	10		1.85	(G/C3)	2.85	-0.75	(G/C3)	0.25
Photoelectric Factor, Right (PER)				Bulk Density, Right (ROBR)			Bulk Density Correction, Right (DRHR)		
0	(----	10		1.85	(G/C3)	2.85	-0.75	(G/C3)	0.25
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)									
100	(M/HR)	0							




PIP SUMMARY									
+ Density Samples									
IDEAL Version: ID9_1C_02									
IDF									



6.75-in. Azimuthal Density Neutron / Equipment Identification									
Primary Equipment:									
Tool Name and Serial Number				ADN6 – CA		FE55			
Collar Type and Serial Number				ADDC – AA		FE55			
Chassis Type and Serial Number				ADSE – EA		380			
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				1041	Master				2505	Master				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				156.5	Master				1275	Master				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		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			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

----- Geomagnetic data -----  
Magnetic model.....: BGM 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

----- 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

----- 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

----- 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

----- 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

8-Mar-2005 04:40:23

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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/ 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

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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/ 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

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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/ D/M)	Srvy tool type	Tool Corr (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	

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

**Schlumberger**

Well: **BTA-A4A-ST**

Field: **Barracouta**

Rig: **ENSCO 102**

**8.5 in. Section**

State: **Victoria**

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