

Bit Run Summary

Type		KCl/PHPA/Glycol	KCl/PHPA/Glycol	KCl/PHPA/Glycol						
Mud weight	ppg	9.60	9.70	9.85						
Solids	%	4.2	5.0	6.0						
Chlorides	mg/L	43000	45000	46000						
Rm	ohm.m@°C	0.10@21.0	0.10@21.1	0.09@20.8						
Rmf	ohm.m@°C	0.08@20.9	0.09@21.0	0.08@20.6						
Rmc	ohm.m@°C	0.13@21.0	0.13@21.7	0.14@21.0						
Potassium	%	8.0	8.0	8.0						
Environmental data										
GR										
Mud weight	ppg	9.60	9.70	9.85						
Bit size	in.	8.5	8.5	8.5						
Resistivity										
Neutron porosity										
Hole Size	in.	8.5	8.5	8.5						
Mud weight	ppg	9.60	9.70	9.85						
Temperature	°C	65.0	68.0	87.0						
Mud salinity	ppm	84775	76924	83929						
Formation salinity										
Recording rate 1	SEC	5 sec.	5 sec.	5 sec.						
Recording rate 2	SEC	5 sec.	5 sec.	5 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		R. Bain	M. Jackson	J. MacKinnon						
Schlumberger D&M Personnel		J. Dolan	M. Y. Tan	D. Hastie	T. Auger	C. Soper	B. Hanson			

DISCLAIMER

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OTHER SERVICES FOR RUN2 Xceed* RSS D&I Survey		OTHER SERVICES FOR RUN3 Xceed* RSS D&I Survey		OTHER SERVICES FOR RUN4 Xceed* RSS D&I Survey	
REMARKS: RUN NUMBER 2 8-1/2 in. hole section was drilled from 843.0 m to 1253.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. Environmental Corrections: – GR is corrected for mud weight, tool and bit size, but not corrected for Potassium content. GVR* resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for hole size (DCAV), borehole salinity, temperature and mud hydrogen index (derived from mud weight, temperature and pressure at depth). Surface temperature is adjusted to give a correct computed downhole temperature gradient. Neutron porosity data was processed without		REMARKS: RUN NUMBER 3 8-1/2 in. hole section was drilled from 1253.0 m to 1902.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. Environmental Corrections: – GR is corrected for mud weight, tool and bit size, but not corrected for Potassium content. 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 hole size (DCAV), borehole salinity, temperature and mud hydrogen index (derived from mud weight, temperature and pressure at depth). Surface temperature is adjusted to give a correct computed downhole temperature gradient. Resistivity data was processed until the depth		REMARKS: RUN NUMBER 4 8-1/2 in. hole section was drilled from 1902.0 m to 2641.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. Environmental Corrections: – GR is corrected for mud weight, tool and bit size, but not corrected for Potassium content. GVR* resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for hole size (DCAV), borehole salinity, temperature and mud hydrogen index (derived from mud weight, temperature and pressure at depth). Surface temperature is adjusted to give a correct computed downhole temperature gradient. Resistivity data between the interval of	

FR11 and FR21.

of 1864.0 m MD.

1864.0 m to 1893.0 m MD was acquired by
reaming down the section.

EQUIPMENT DESCRIPTION

RUN2

RUN3

RUN4

DOWNHOLE EQUIPMENT

6-3/4 in. ADN*6C Neutron F 31.81 33.78
S/N: 0403 Neutron N 31.66
8-1/4 in. Stabiliser Density S 30.79
NSR-M A202 Density L 30.69
GSR-J A1994 UltraSonic 30.31
Software: V8.3A02 R-O Port 29.55

6-3/4 in. Sonic*6 27.18
S/N: 34641
Software: V6.4B10
Receiver Array 24.12
R-O Port 23.72
Transmitter 20.68

6-3/4 in. PowerPulse* 19.89
MDC Z411
MEC 212
MDI 1096
MVC 282
Software: V8.0B96
D&I 15.69

6-3/4 in. GVR* 11.54
S/N: 191
Software: V6.2B01
Shallow 10.04
Medium 9.92
Deep 9.74
Ring Res 9.57
R-O Port 9.43
GR 9.21

6-3/4 in. Xceed* RSS 7.89
S/N: 060

DOWNHOLE EQUIPMENT

6-3/4 in. ADN*6C Neutron F 31.79 33.74
S/N: FE55 Neutron N 31.64
8-3/16 in. Stabiliser Density S 30.77
NSR-M A202 Density L 30.67
GSR-J A1994 UltraSonic 30.29
Software: V8.3B02 R-O Port 29.53

6-3/4 in. Sonic*6 27.14
S/N: 34641
Software: V6.4B10
Receiver Array 24.08
R-O Port 23.68
Transmitter 20.64

6-3/4 in. PowerPulse* 19.85
MDC Z411
MEC 212
MDI 1096
MVC 282
Software: V8.0B96
D&I 15.65

6-3/4 in. GVR* 11.50
S/N: 191
Software: V6.2B01
Shallow 10.00
Medium 9.88
Deep 9.70
Ring Res 9.53
R-O Port 9.39
GR 9.17

6-3/4 in. Xceed* RSS 7.85
S/N: 060

DOWNHOLE EQUIPMENT


6-3/4 in. ADN*6C Neutron F 31.75 33.70
S/N: FE55 Neutron N 31.60
8-3/16 in. Stabiliser Density S 30.73
NSR-M A202 Density L 30.63
GSR-J A1994 UltraSonic 30.25
Software: V8.3B02 R-O Port 29.49

6-3/4 in. Sonic*6 27.10
S/N: 34641
Software: V6.2B01
Receiver Array 24.04
R-O Port 23.64
Transmitter 20.60

6-3/4 in. PowerPulse* 19.81
MDC Z411
MEC 212
MDI 1096
MVC 282
Software: V8.0B96
D&I 15.61

6-3/4 in. GVR* 11.46
S/N: 147
Software: V6.2B01
Shallow 9.99
Medium 9.87
Deep 9.69
Ring Res 9.52
R-O Port 9.38
GR 9.16

6-3/4 in. Xceed* RSS 7.85
S/N: 060




Reed Hycalog PDC Bit
RSX162 S/N: 209392
OD 8-1/2 in.

0.00

0.23

Maximum string diameter 8.50 in.
All lengths in Meters




Reed Hycalog PDC Bit
RSX192 S/N: 207893
OD 8-1/2 in.

0.00

0.19

Maximum string diameter 8.50 in.
All lengths in Meters

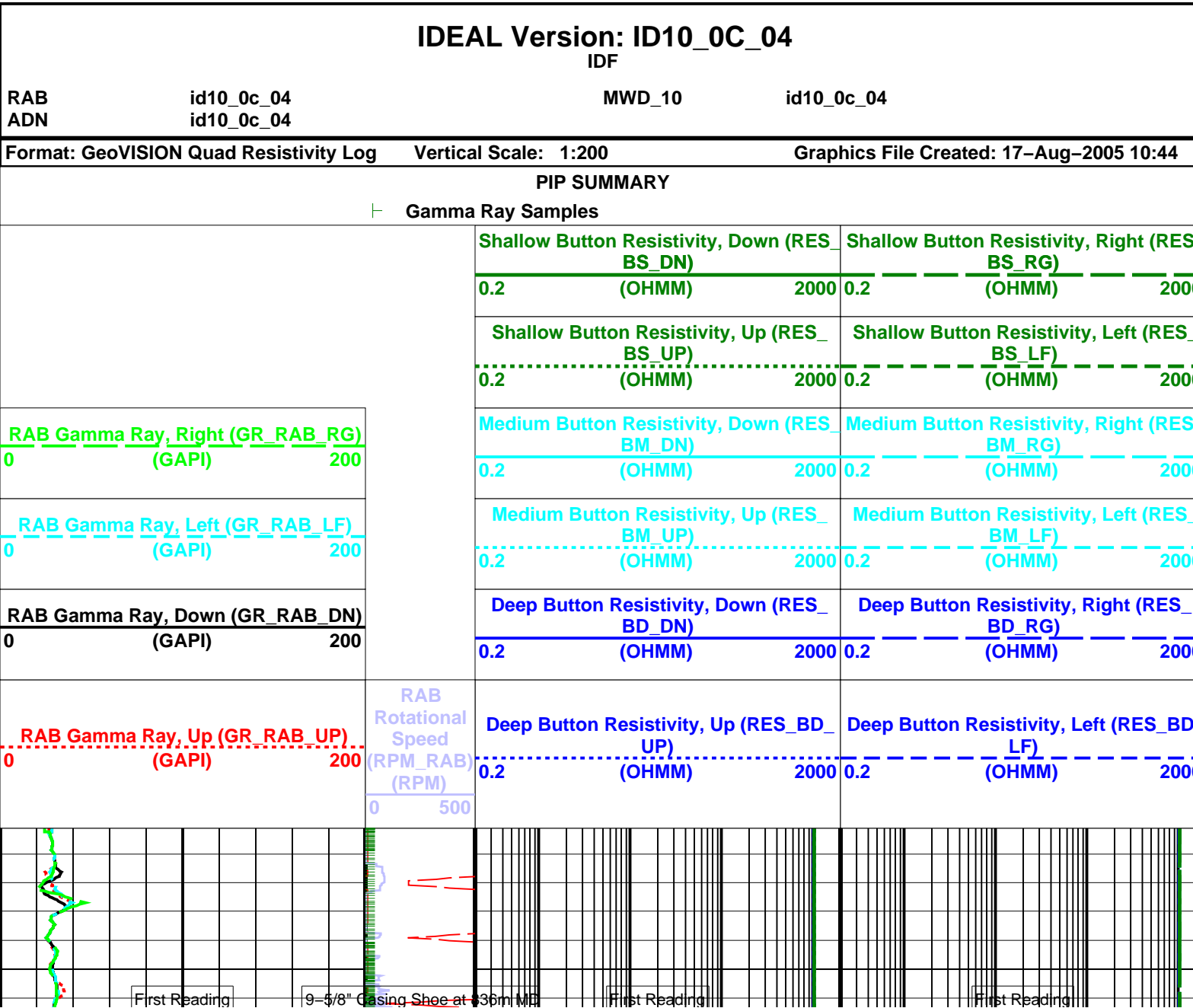


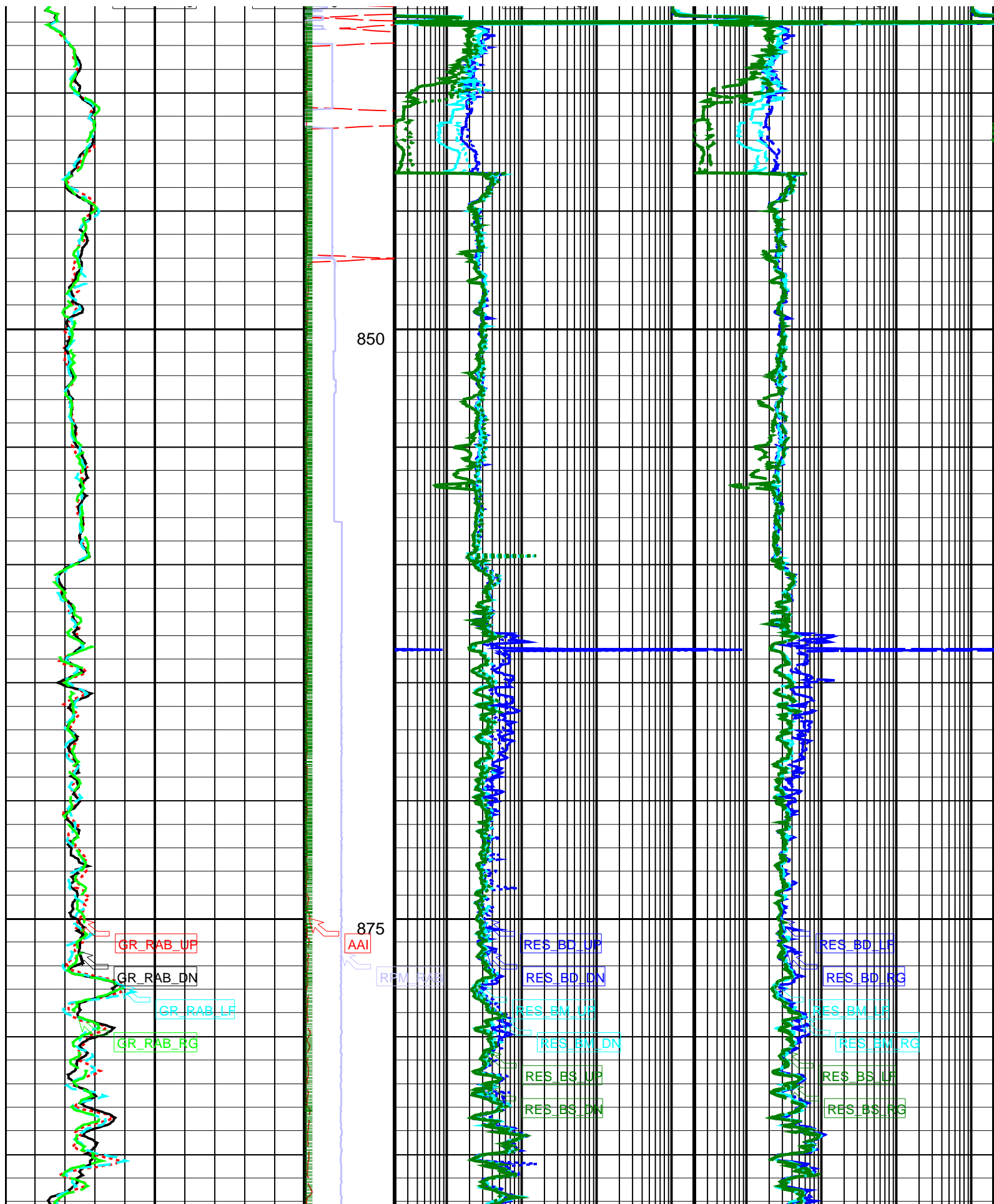
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RSX192 S/N: 207893
OD 8-1/2 in.

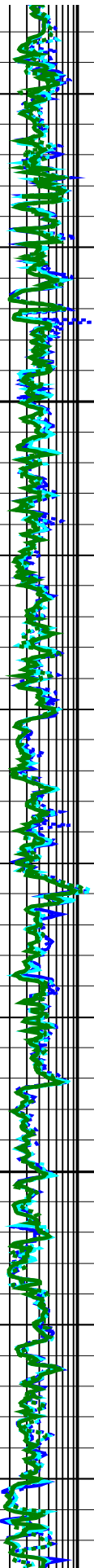
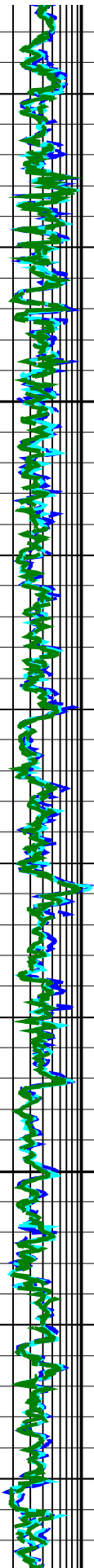
0.00

0.19

Maximum string diameter 8.50 in.
All lengths in Meters

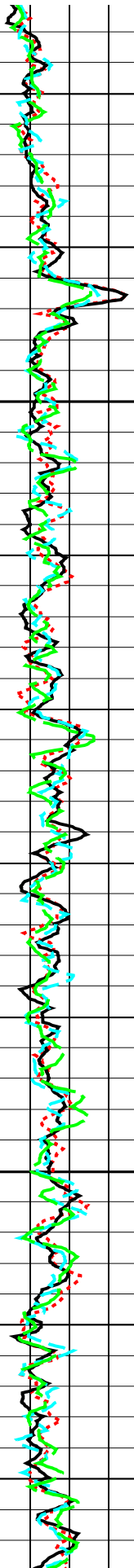


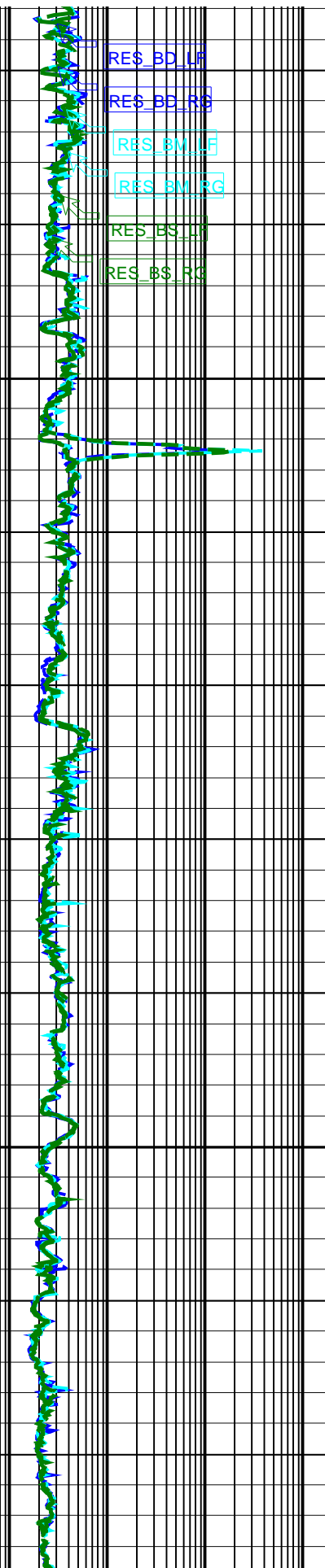
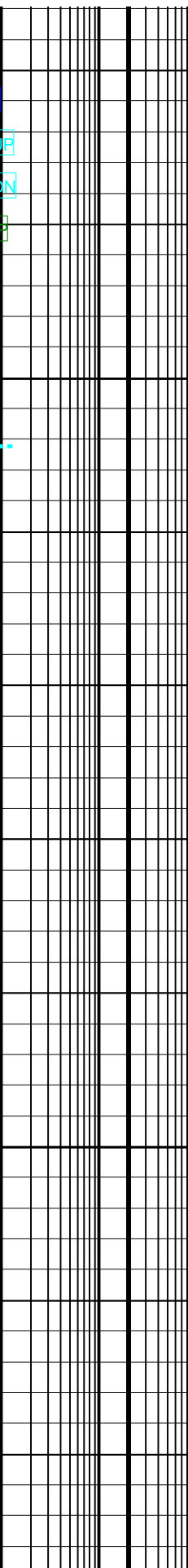
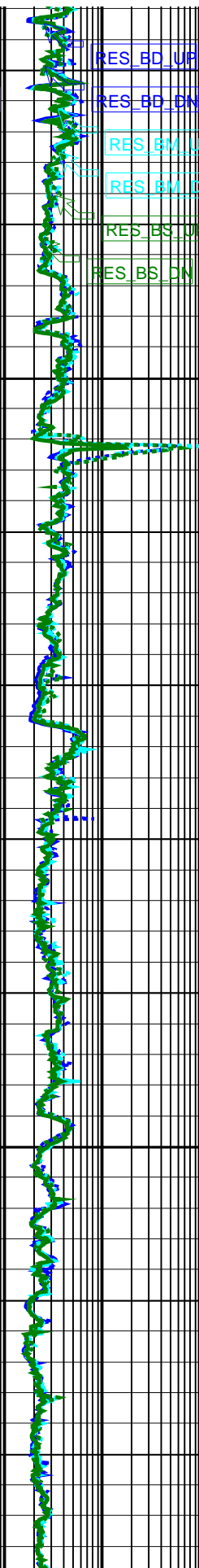
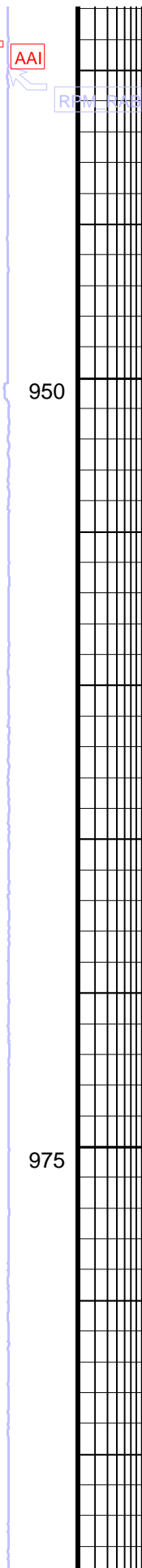
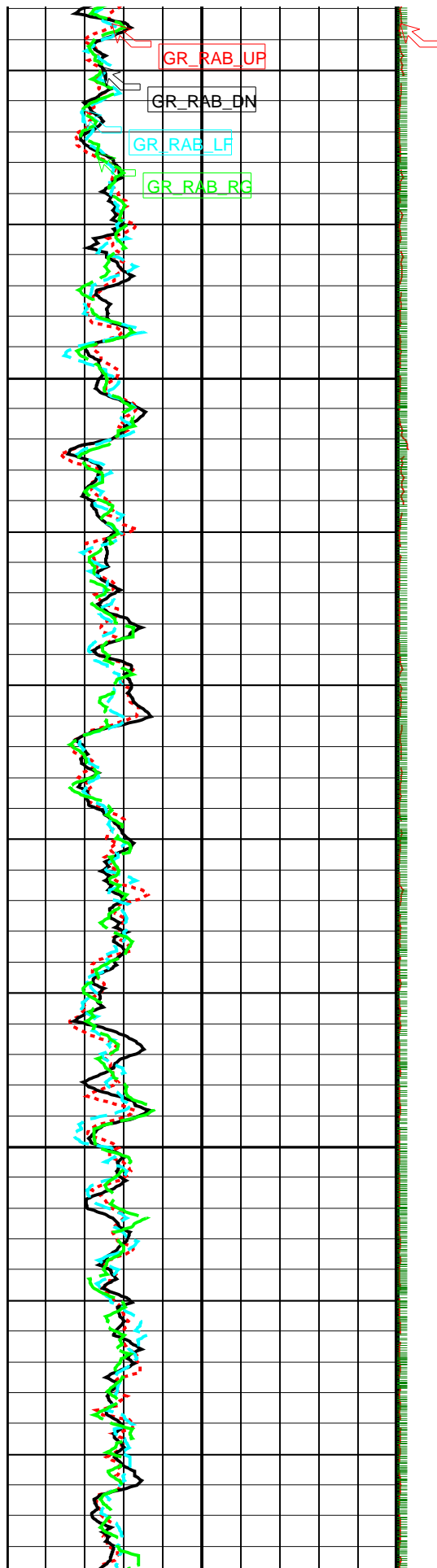


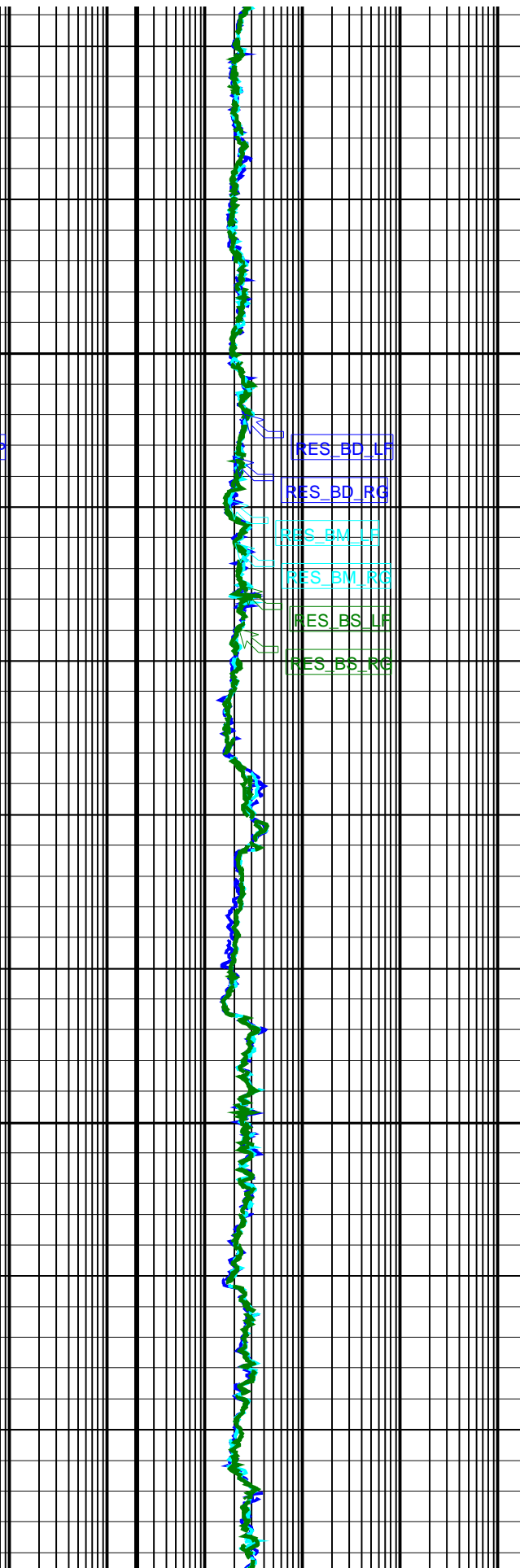
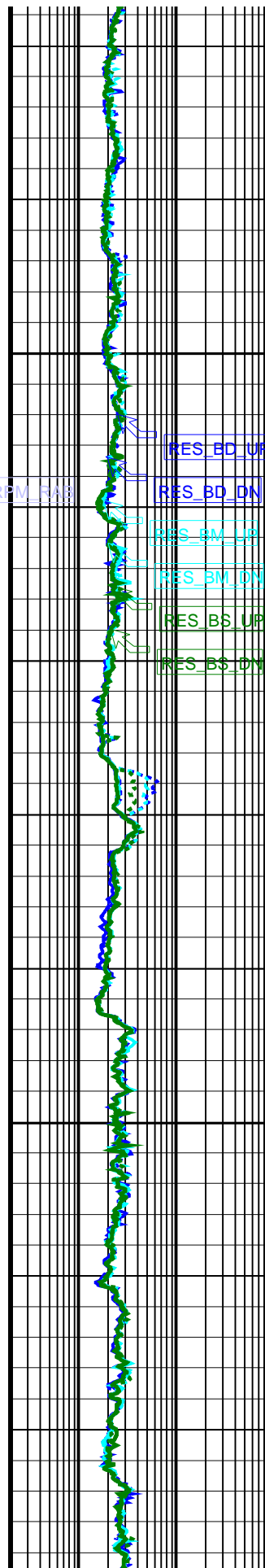
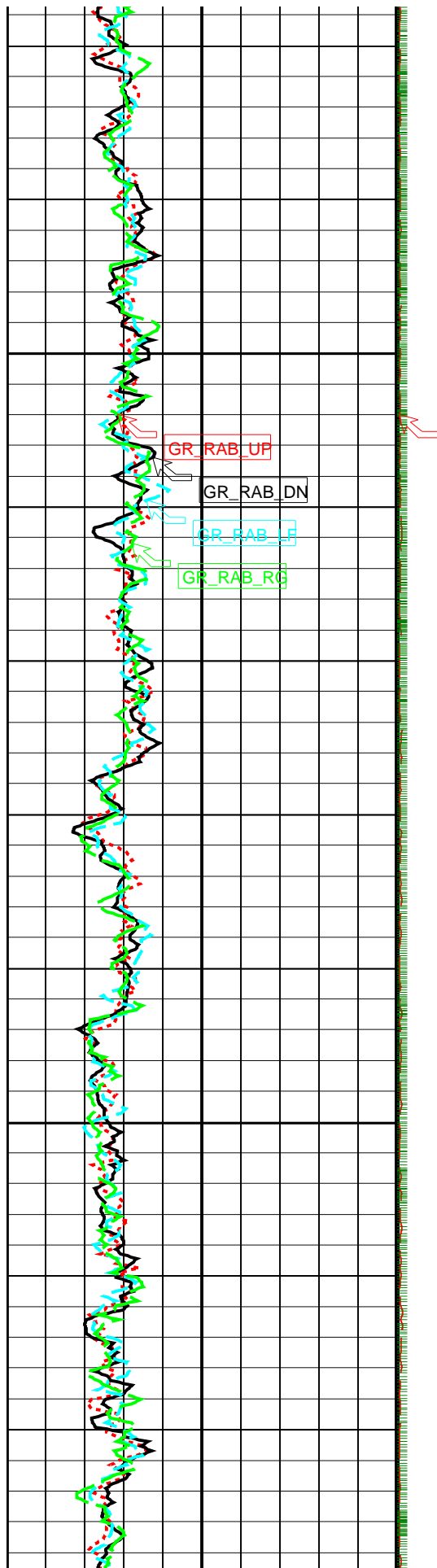


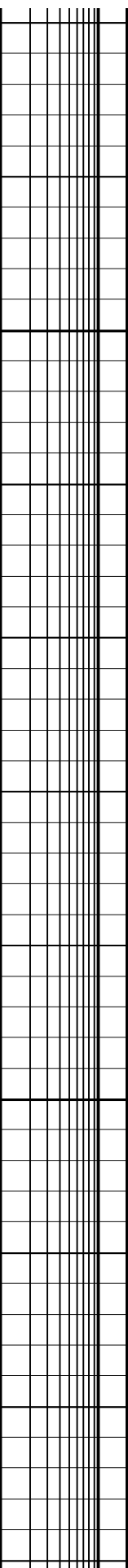
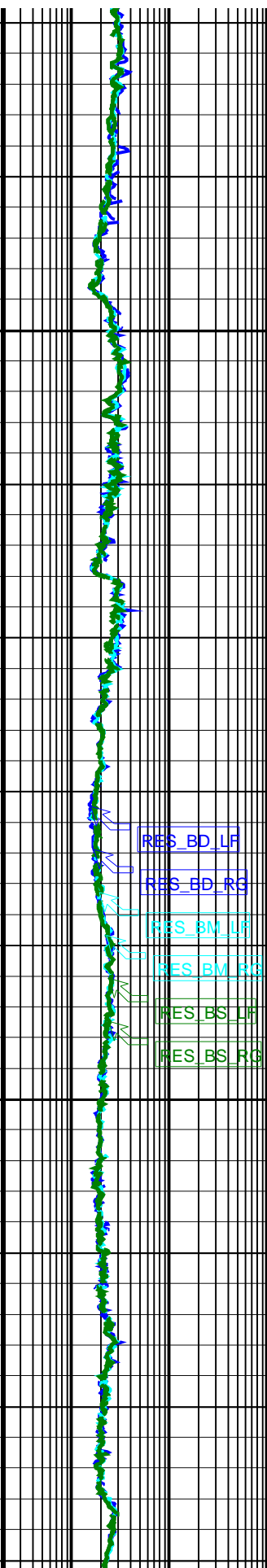
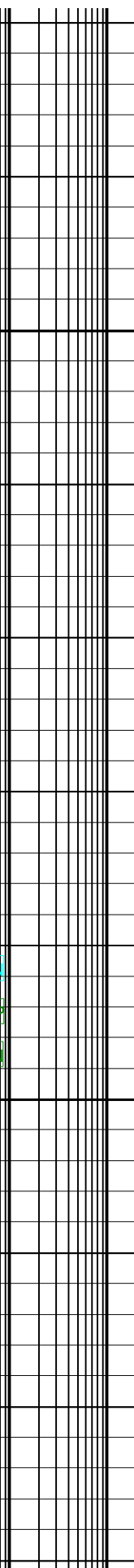
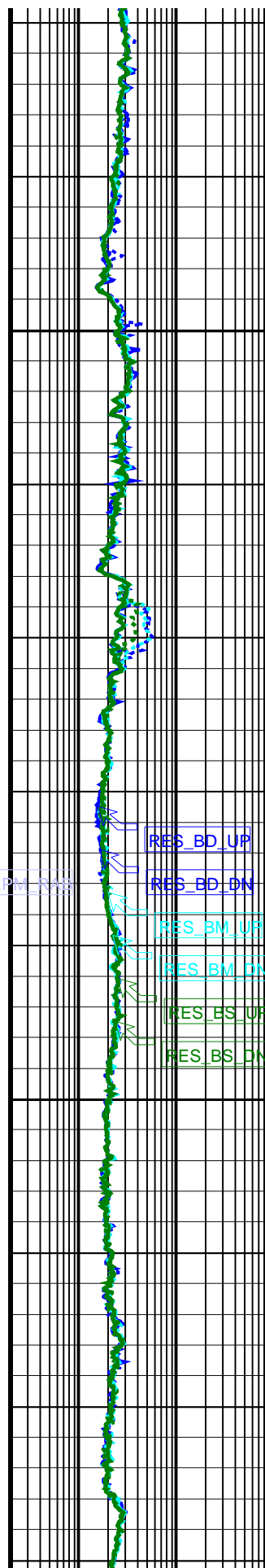
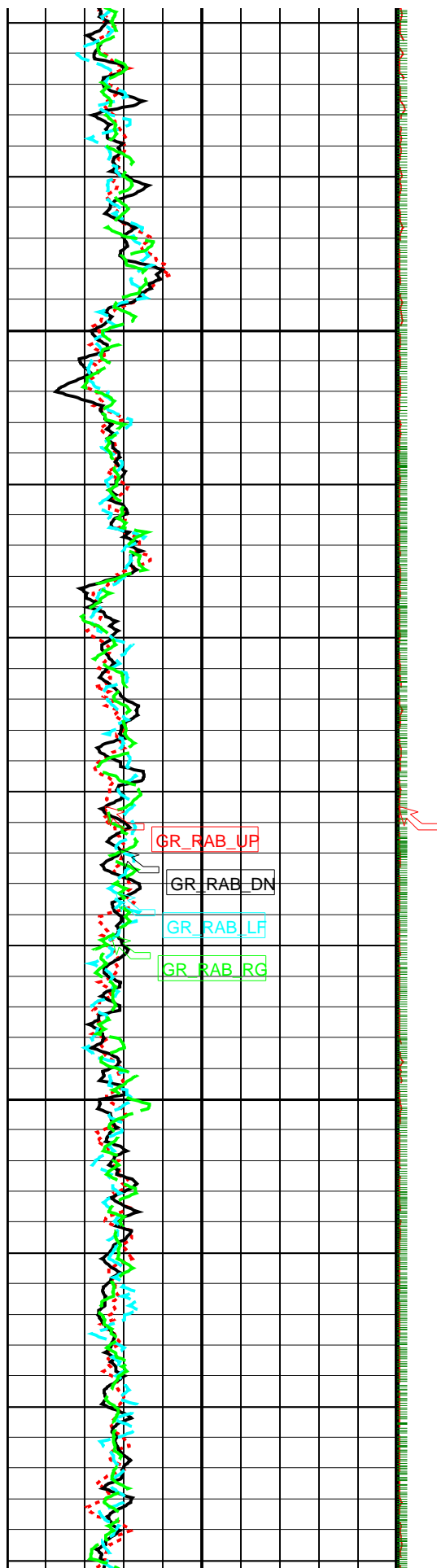
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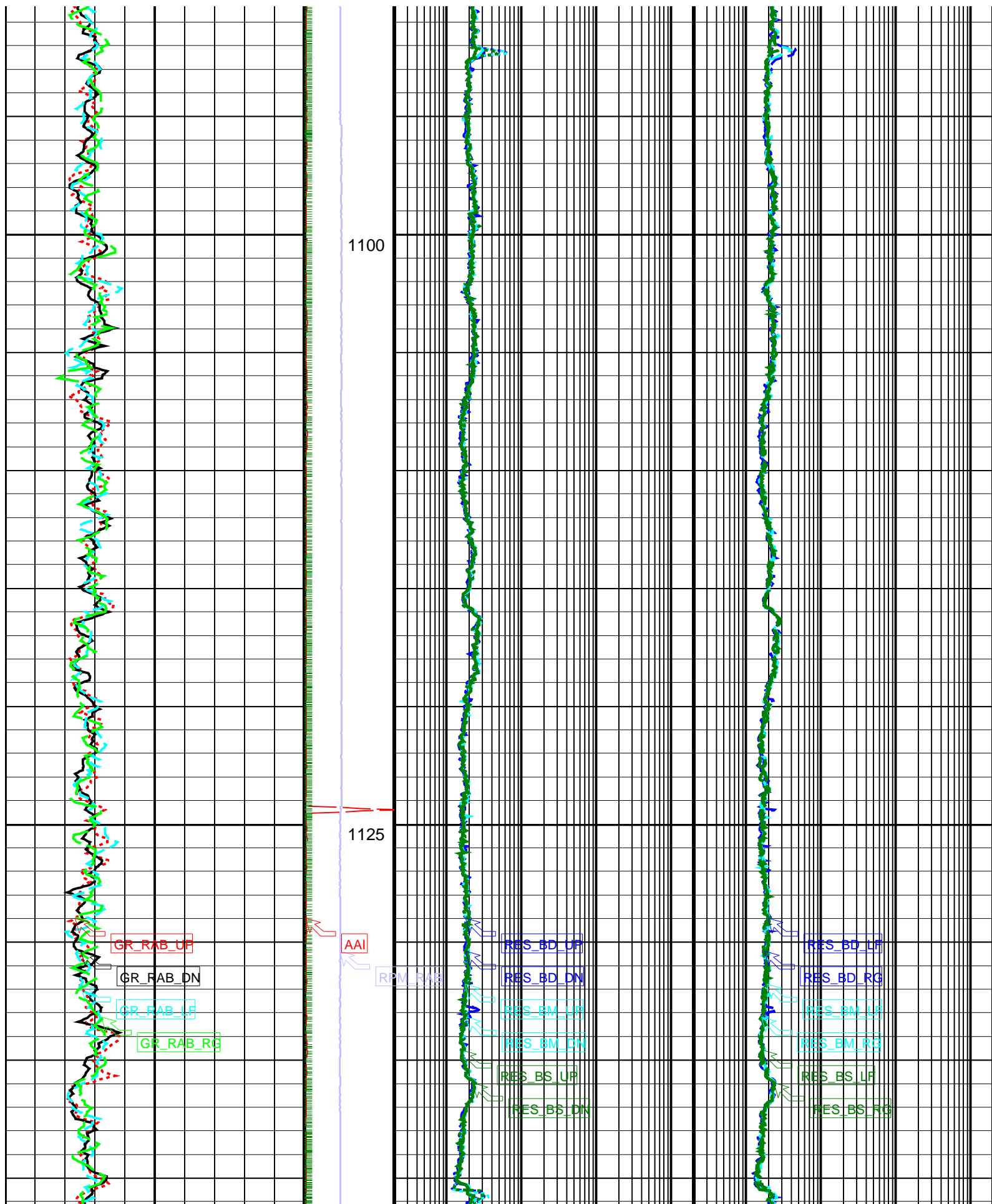
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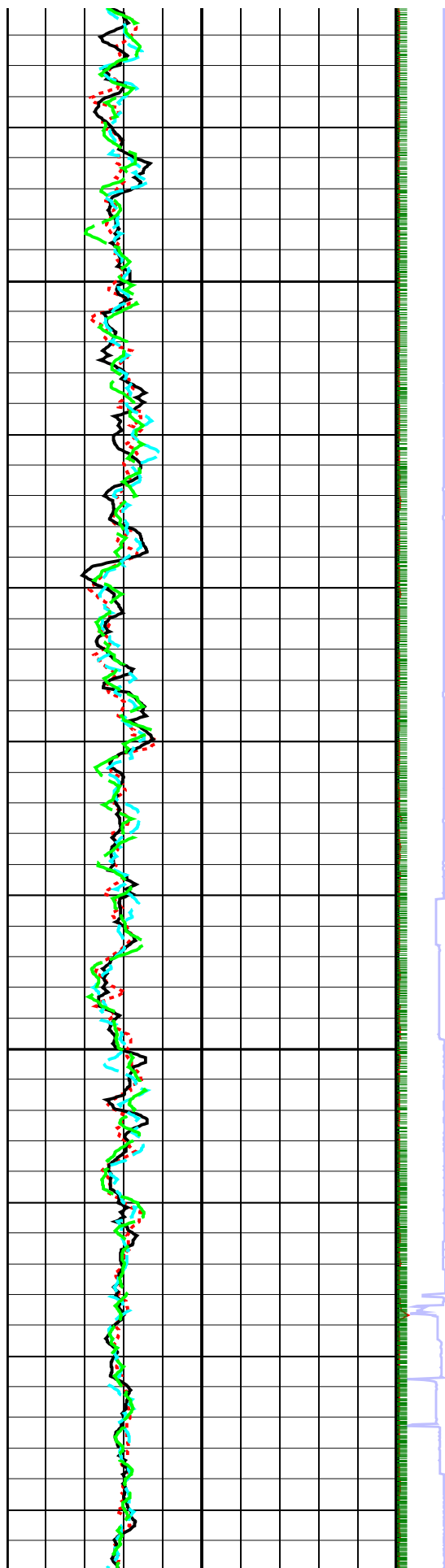






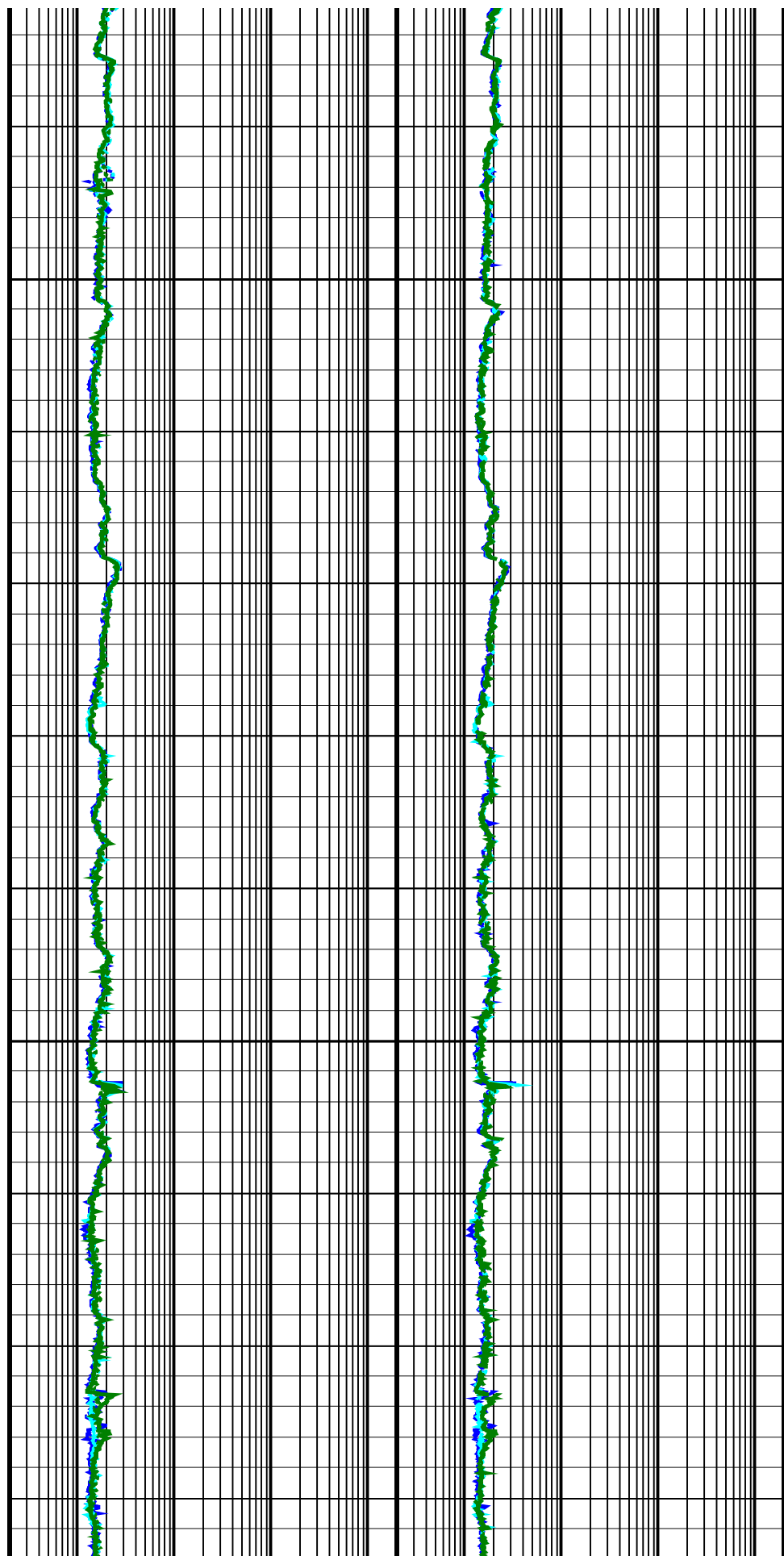


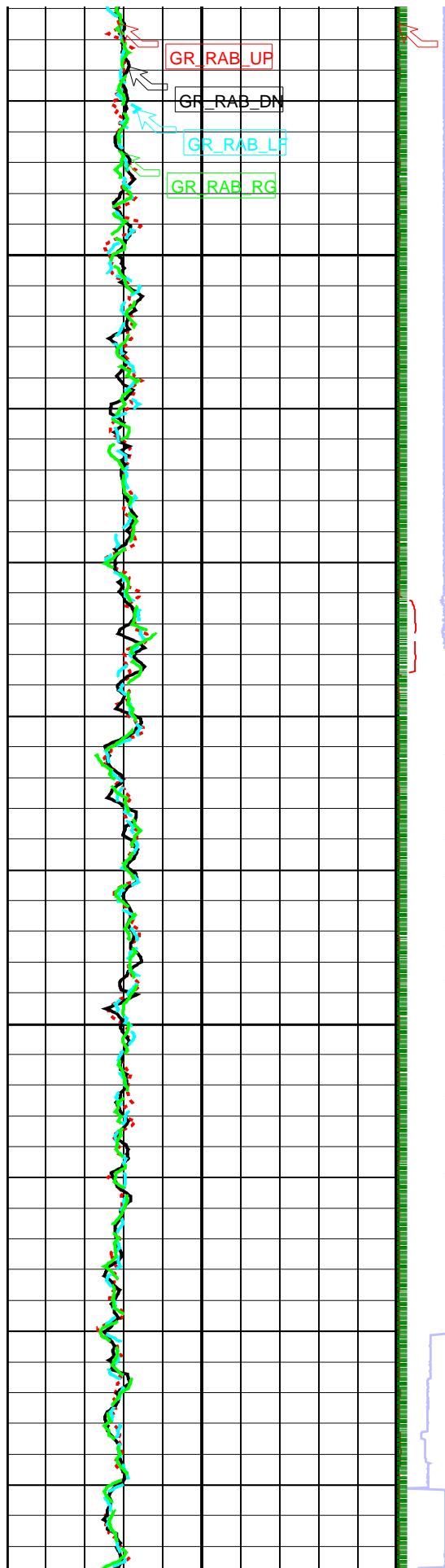




1150

1175



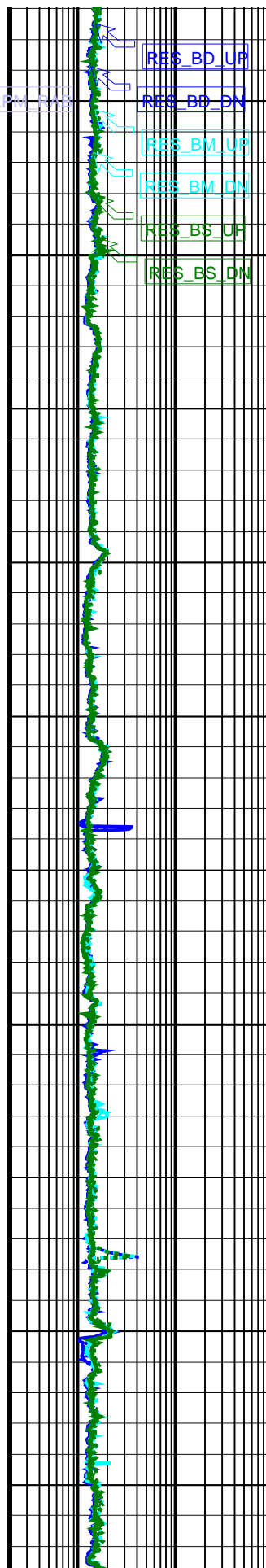


AAI

RPM_RAB

1200

1225



RES_BD_LF

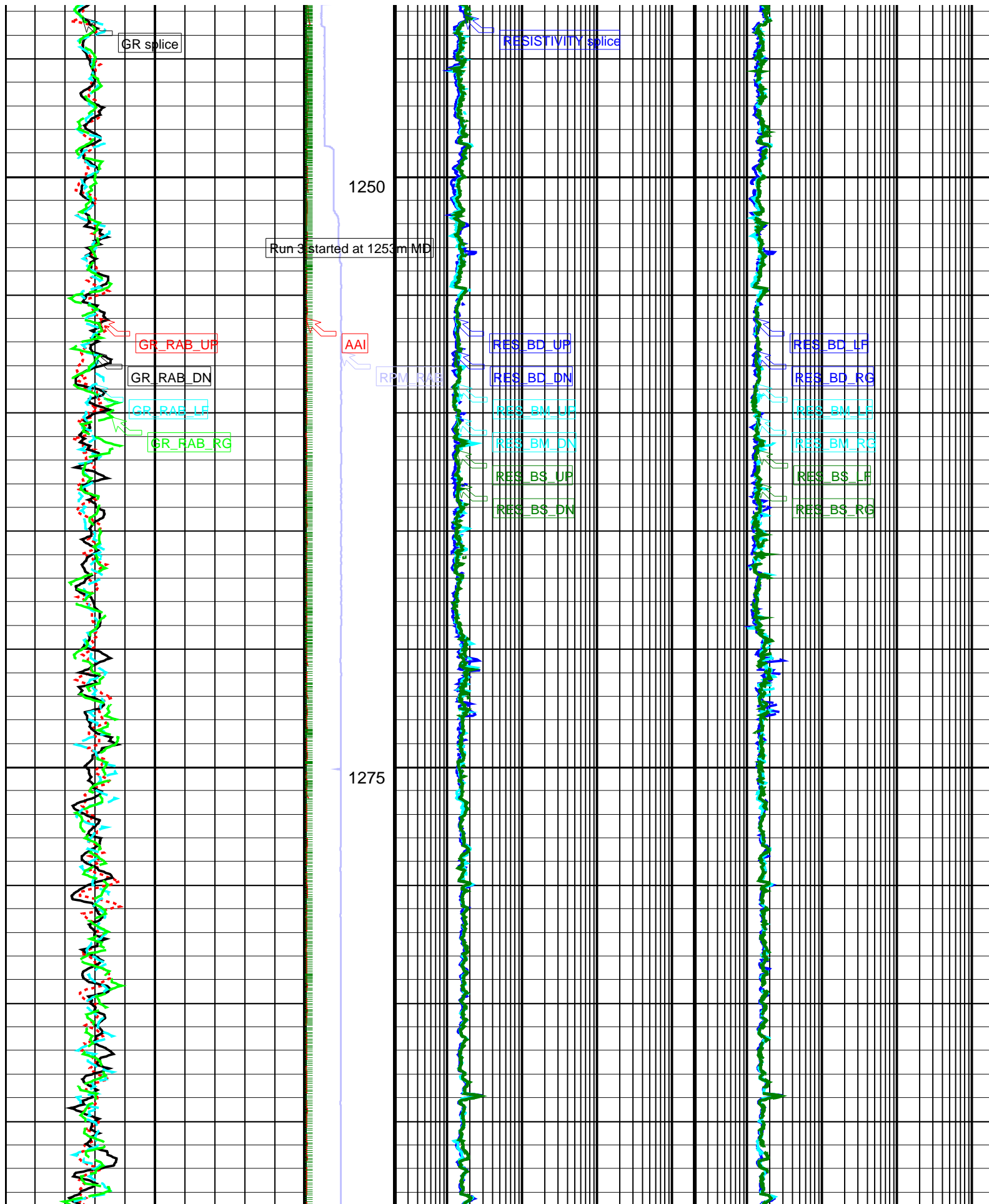
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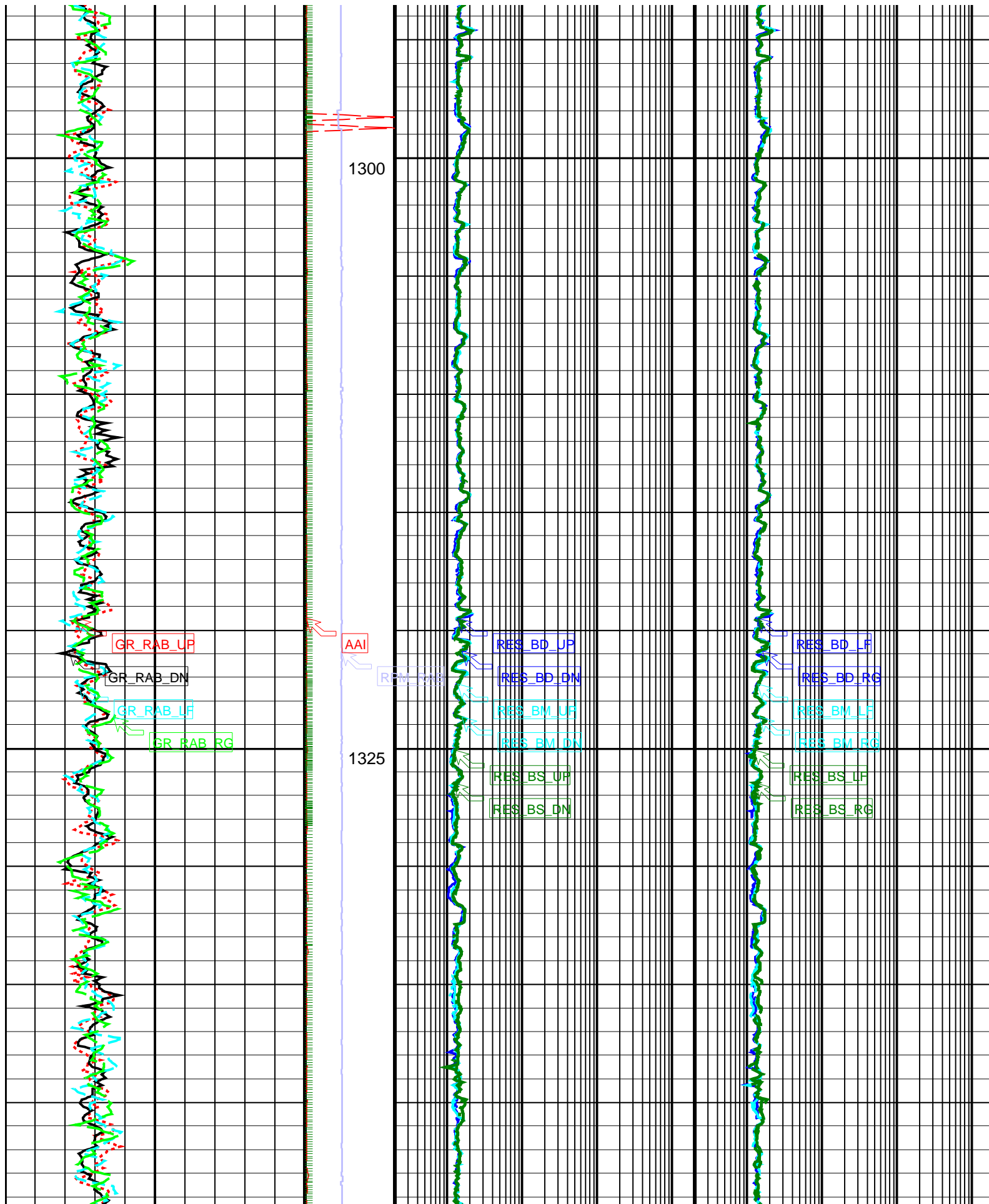
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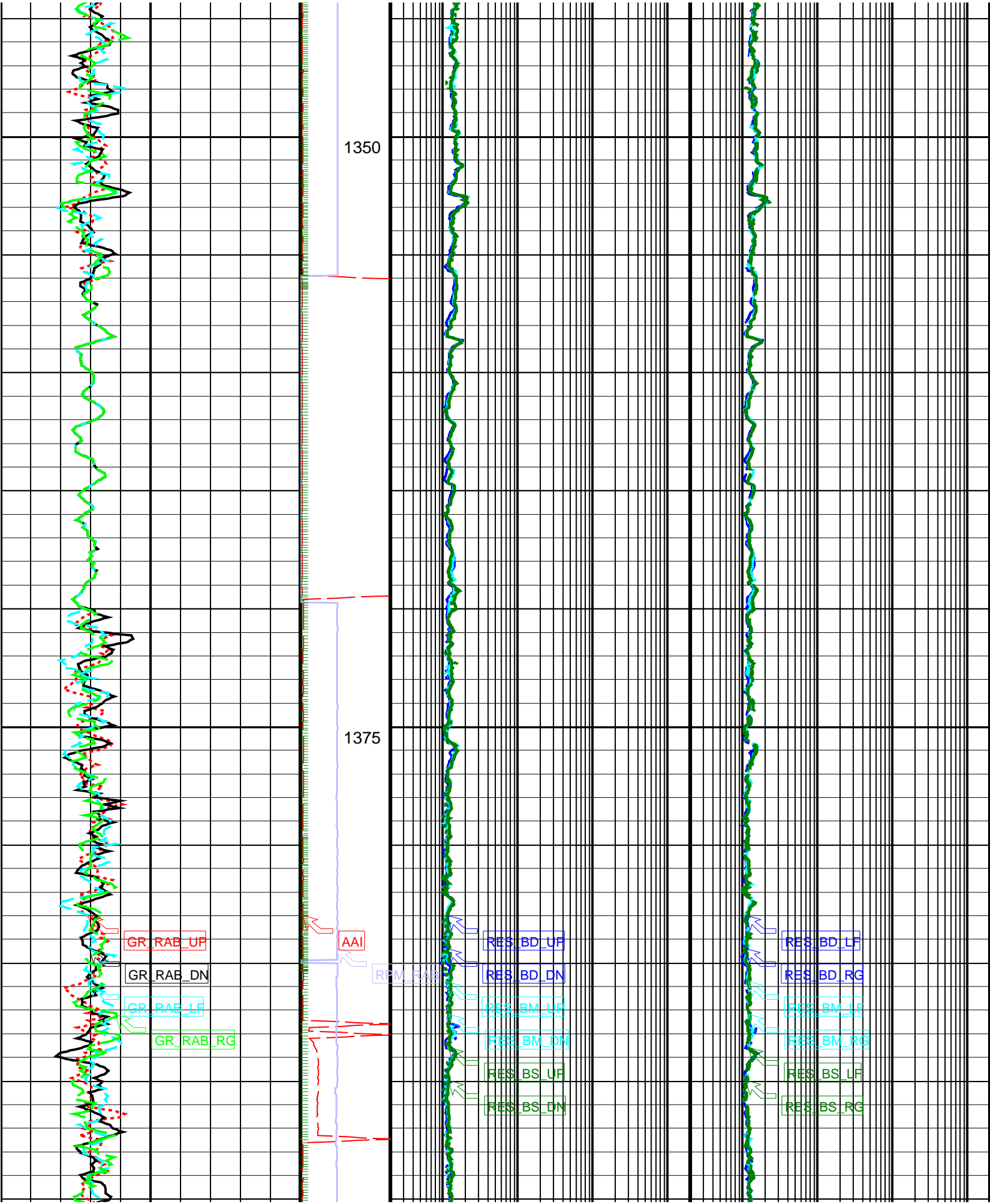
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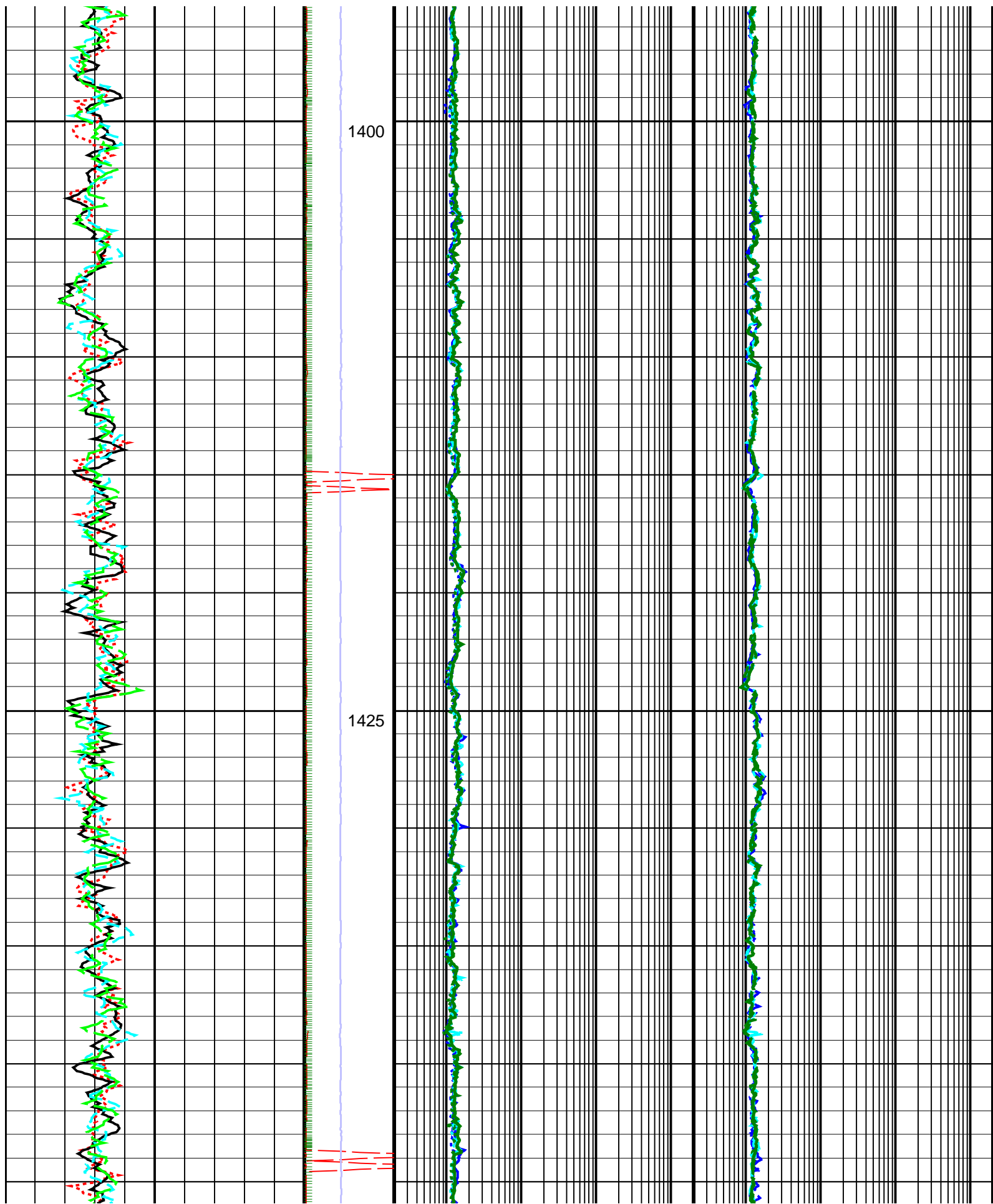
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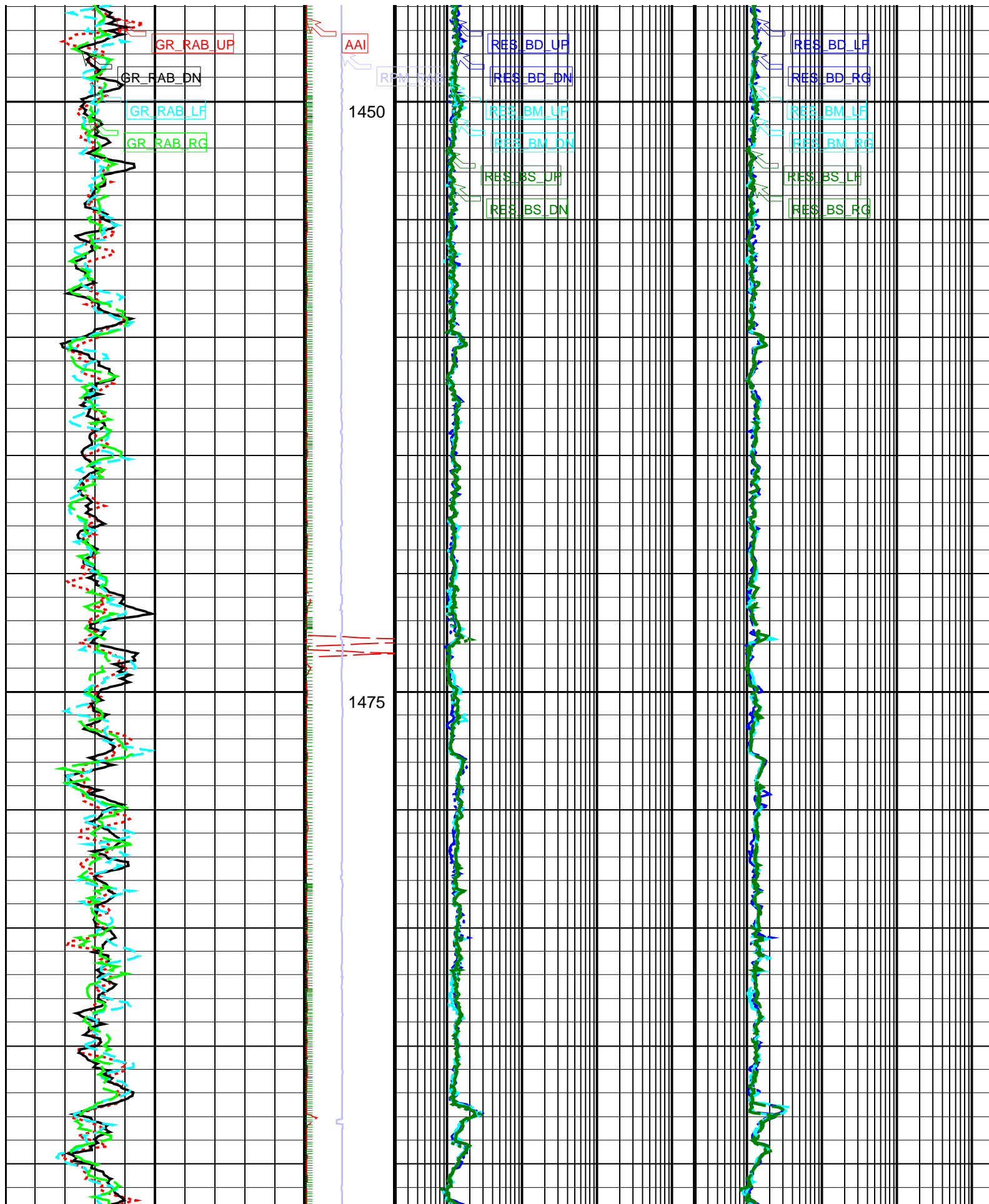
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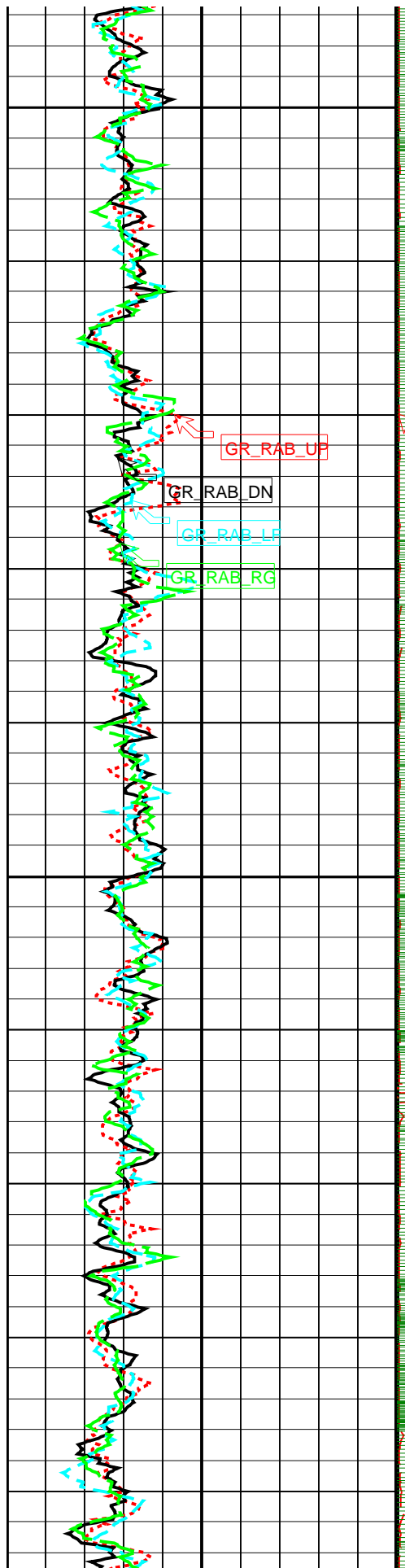








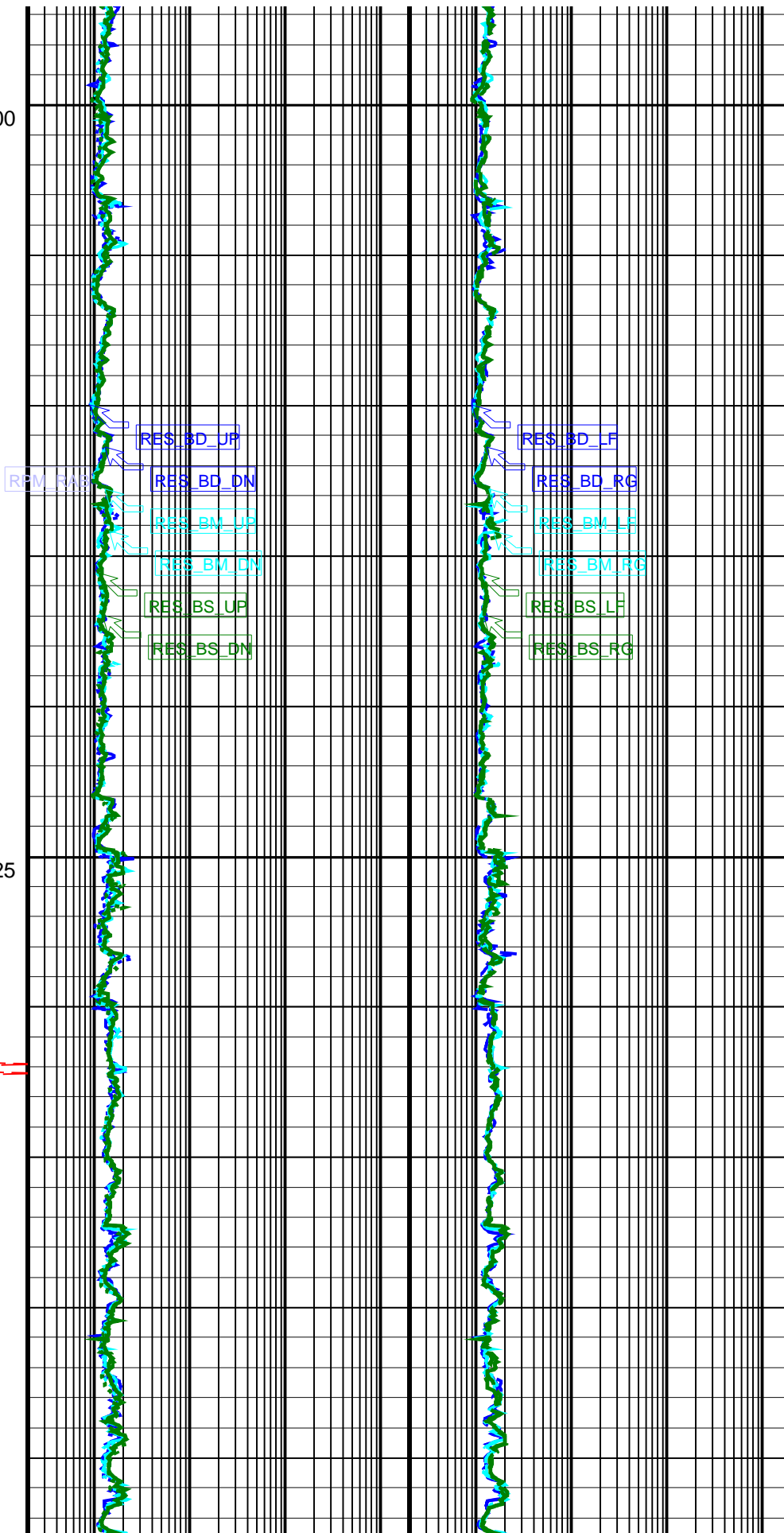


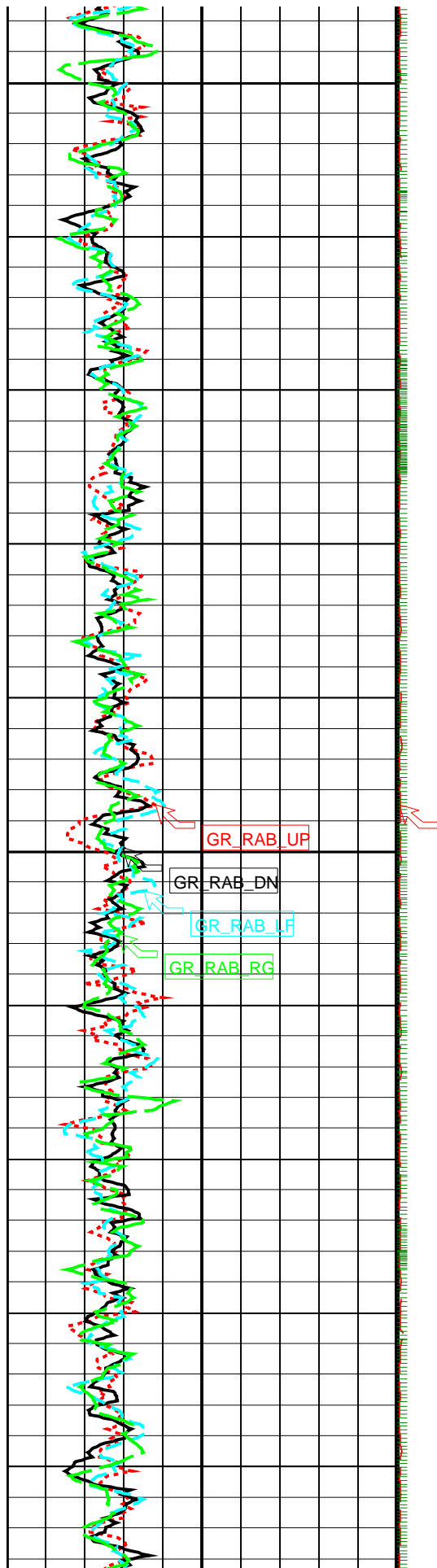


1500

AAI

1525



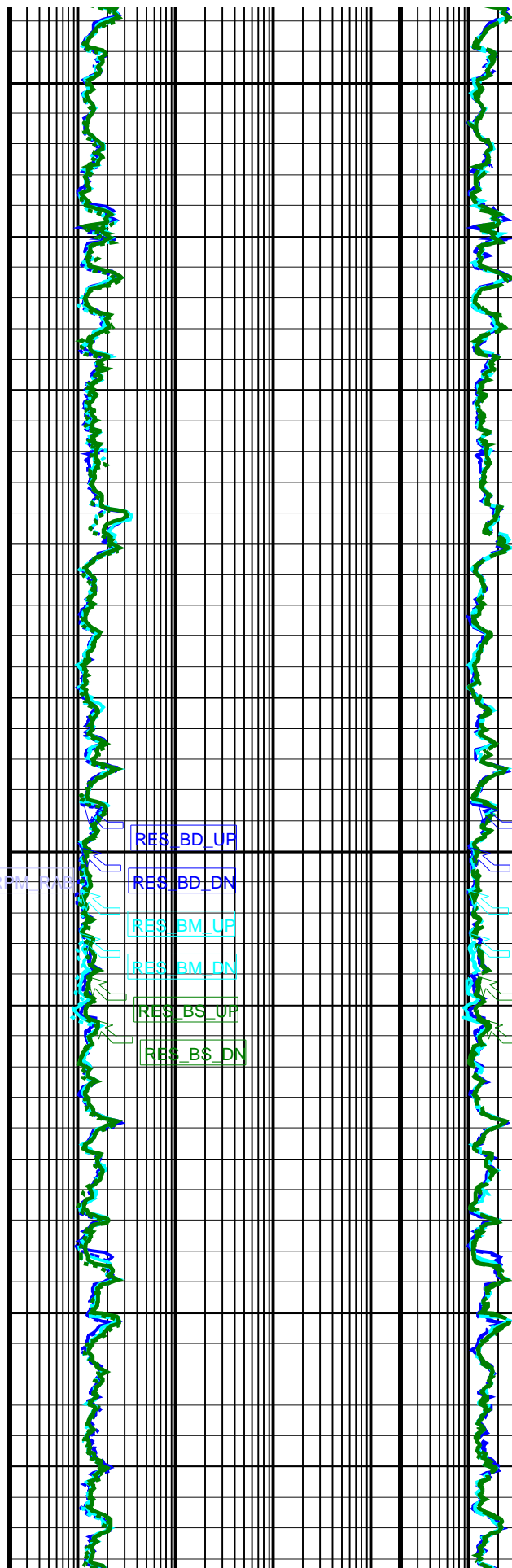


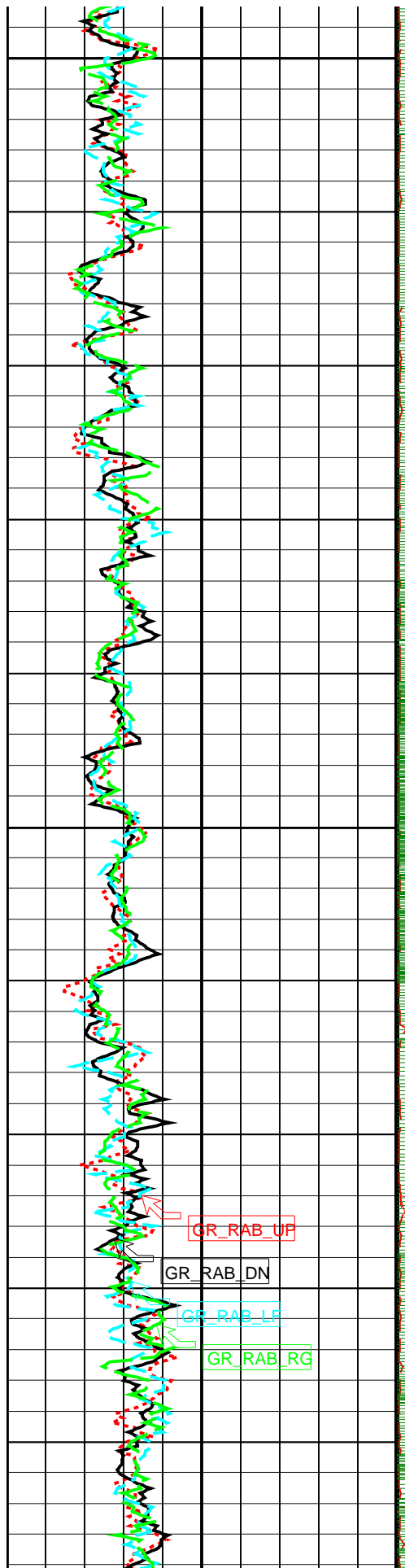
1550

AAI

1575

RES_BD_UP





1600

1625

AAI

RPM_RAB

RES_BD_UP

RES_BD_DN

RES_BM_UP

RES_BM_DN

RES_BS_UP

RES_BS_DN

RES_BD_LP

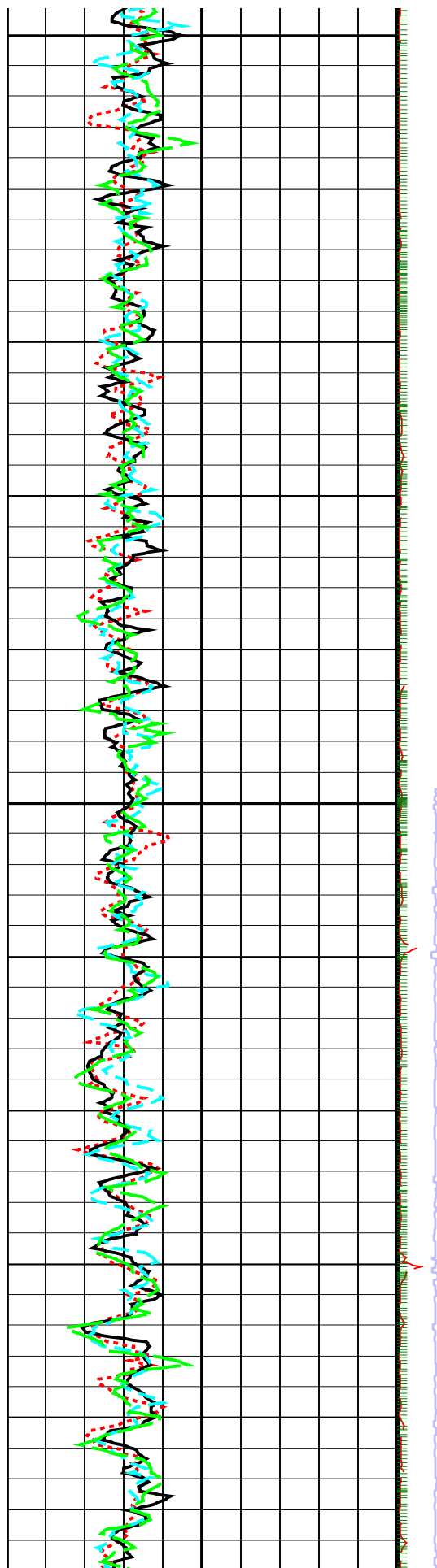
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RES_BM_LP

RES_BM_RG

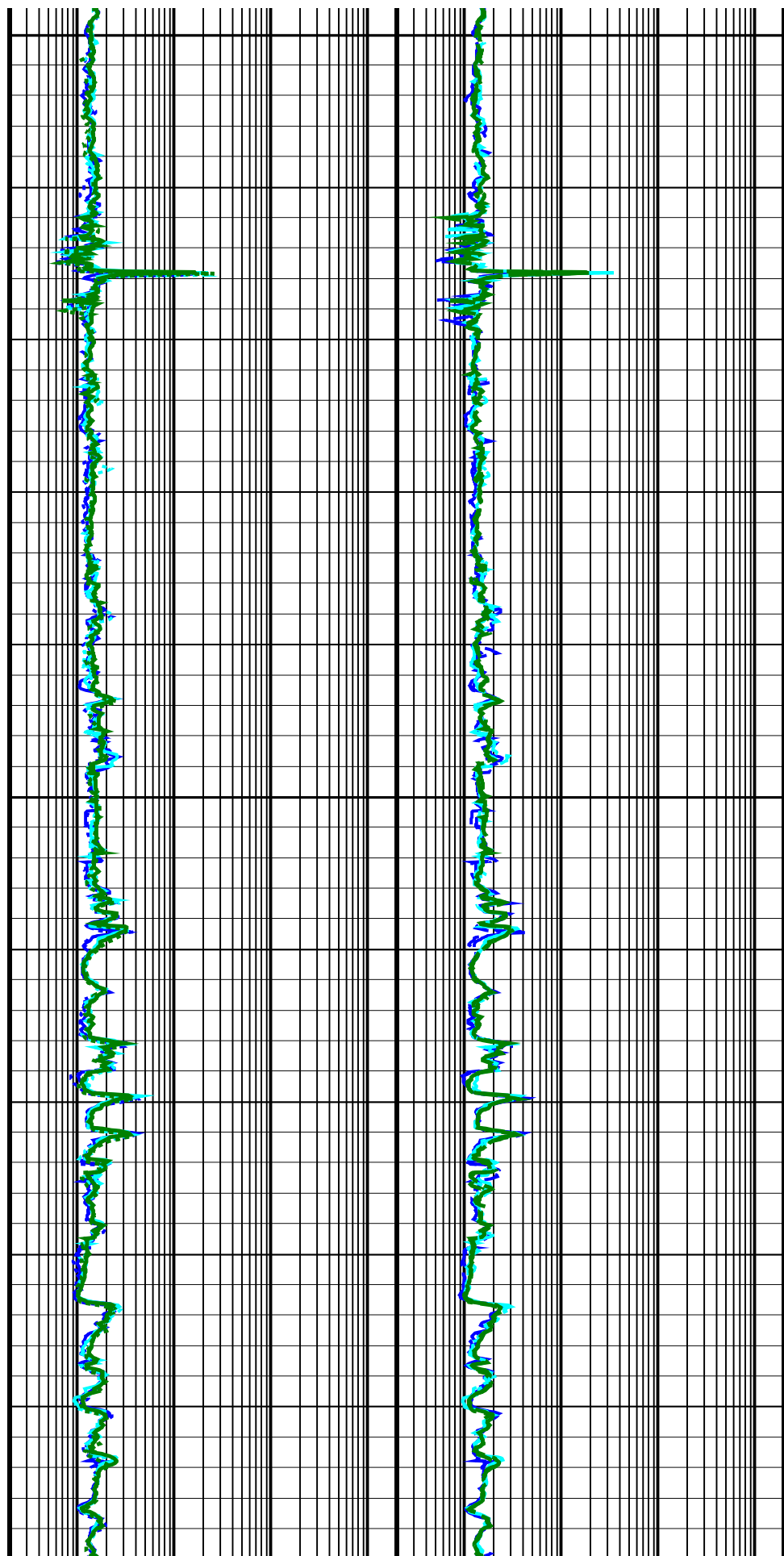
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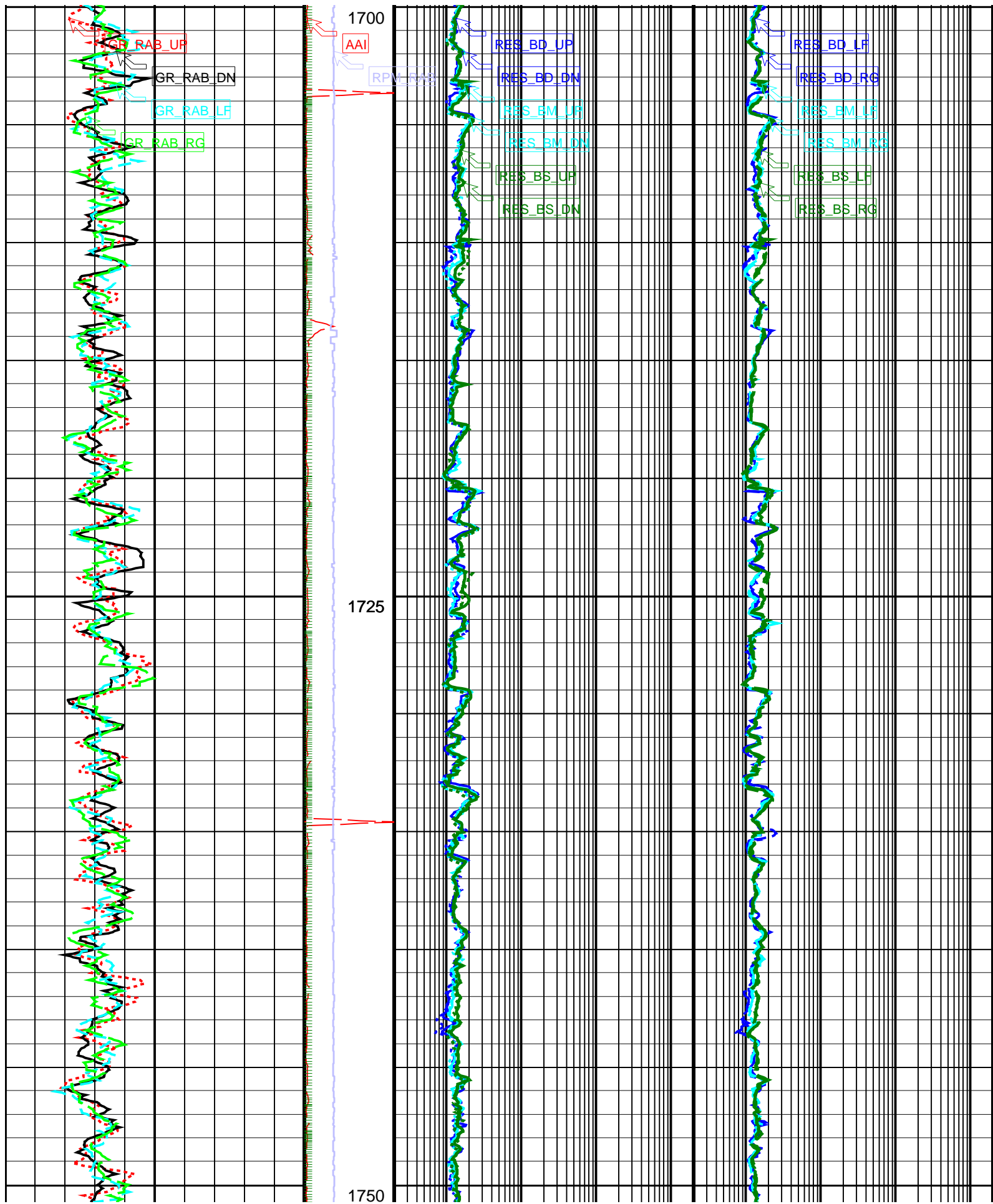
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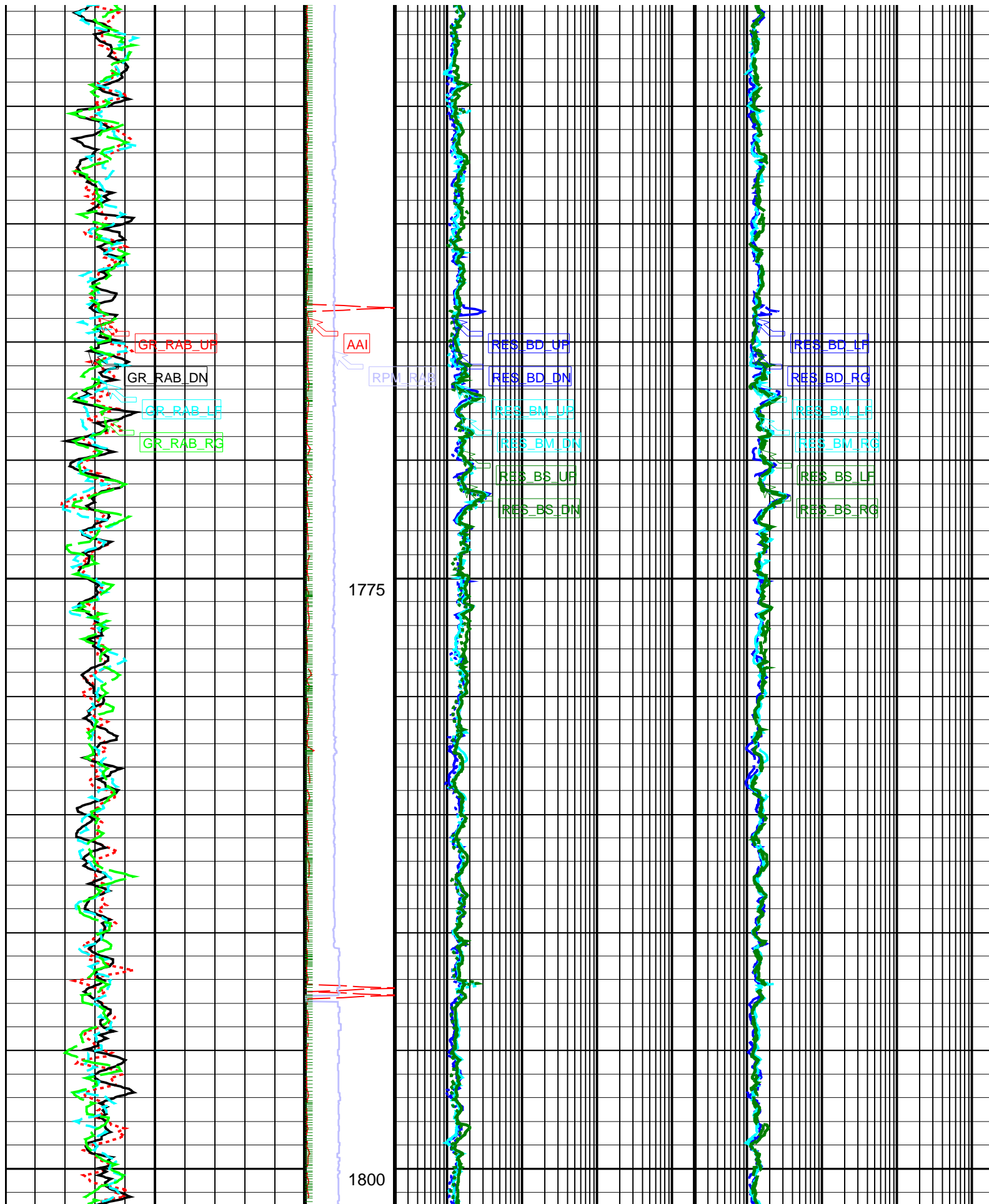


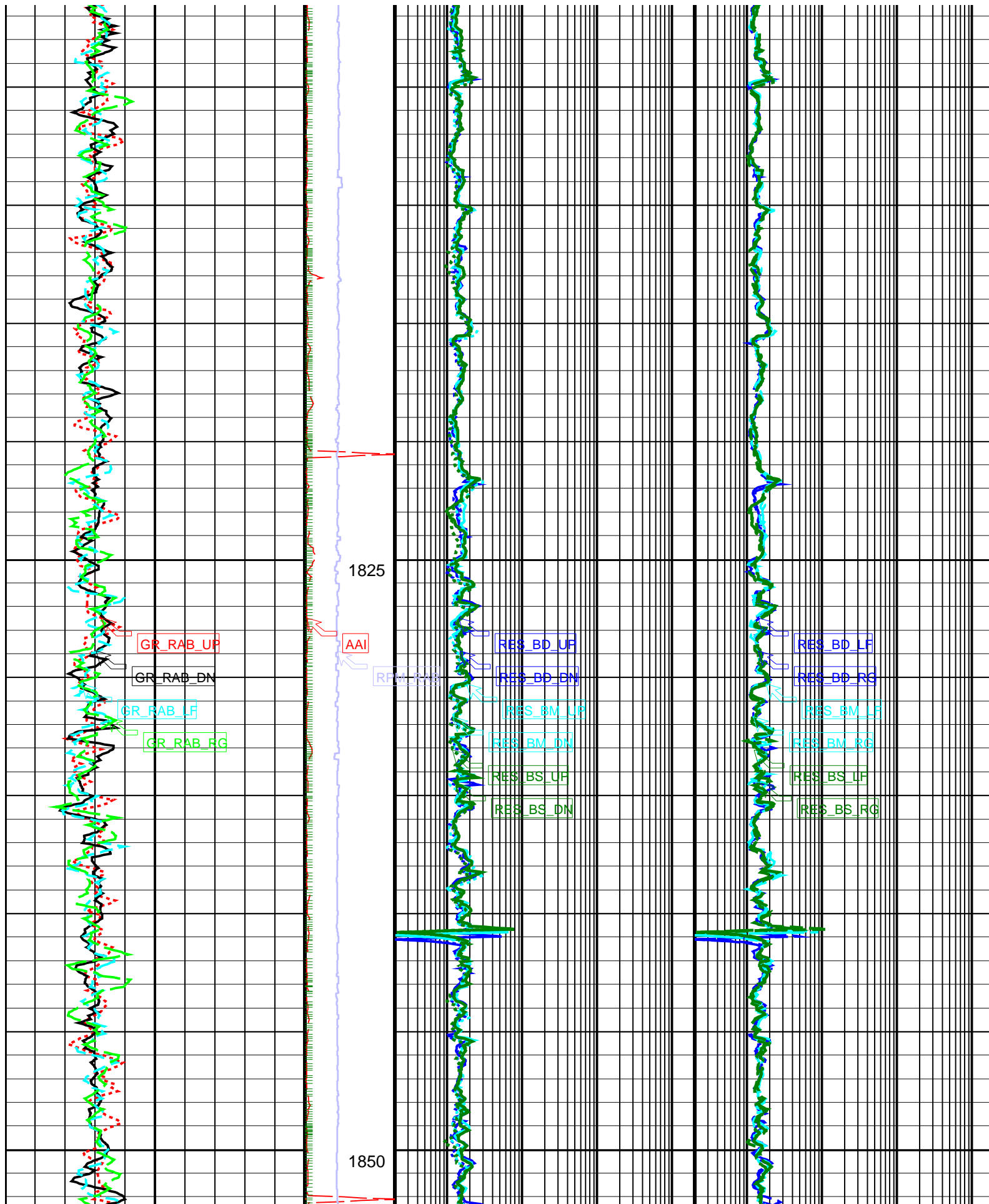
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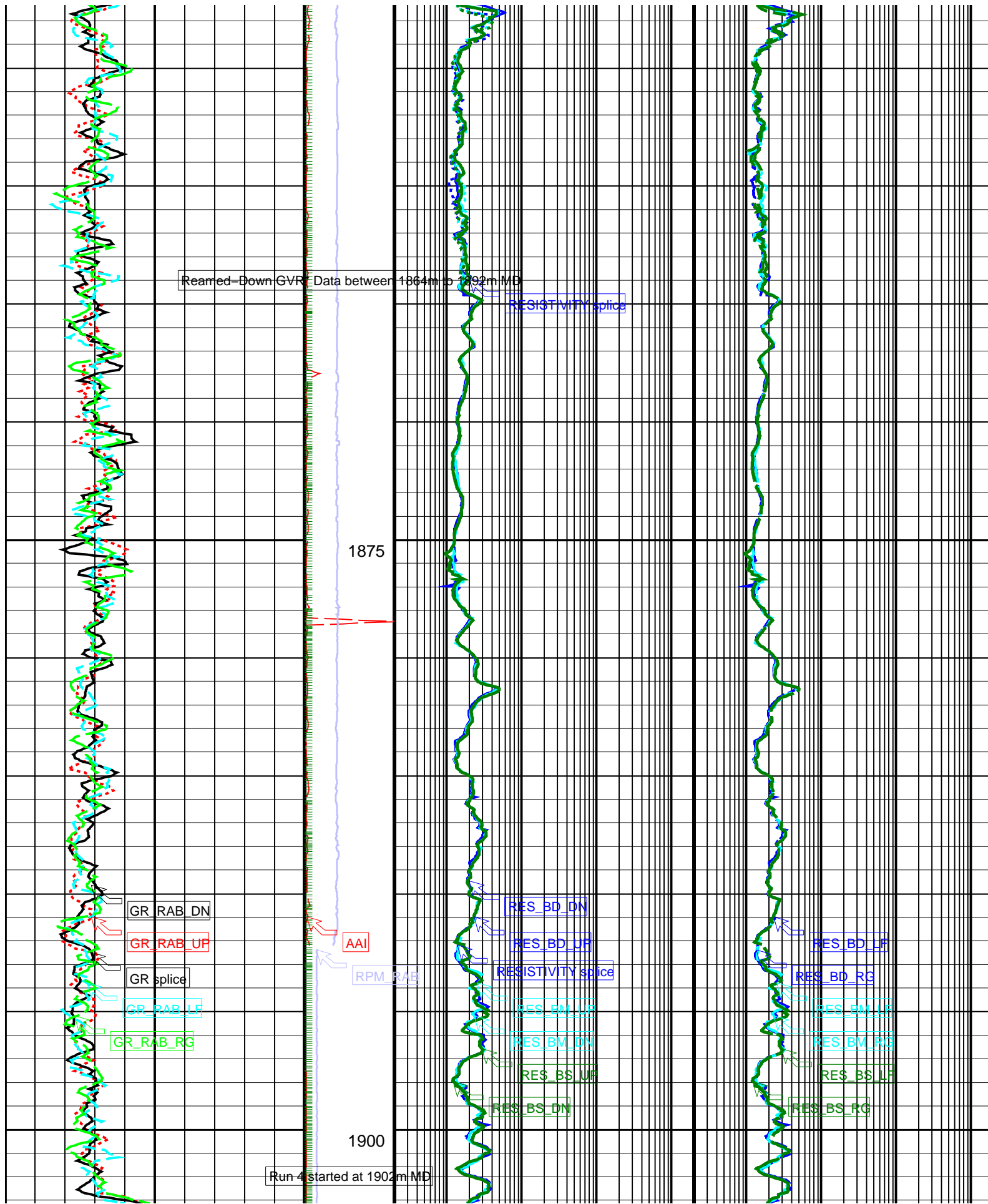
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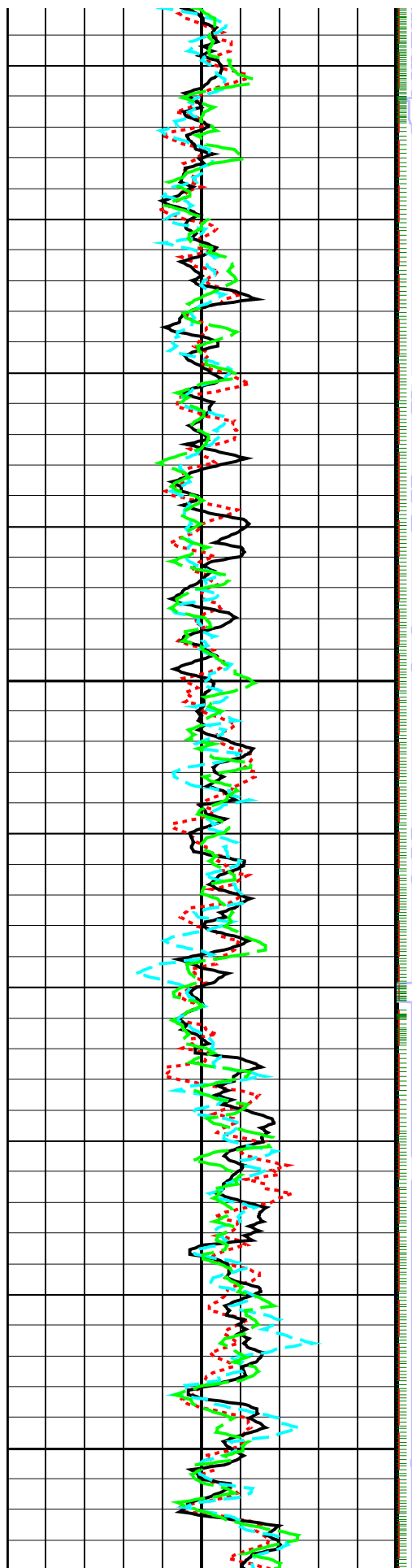






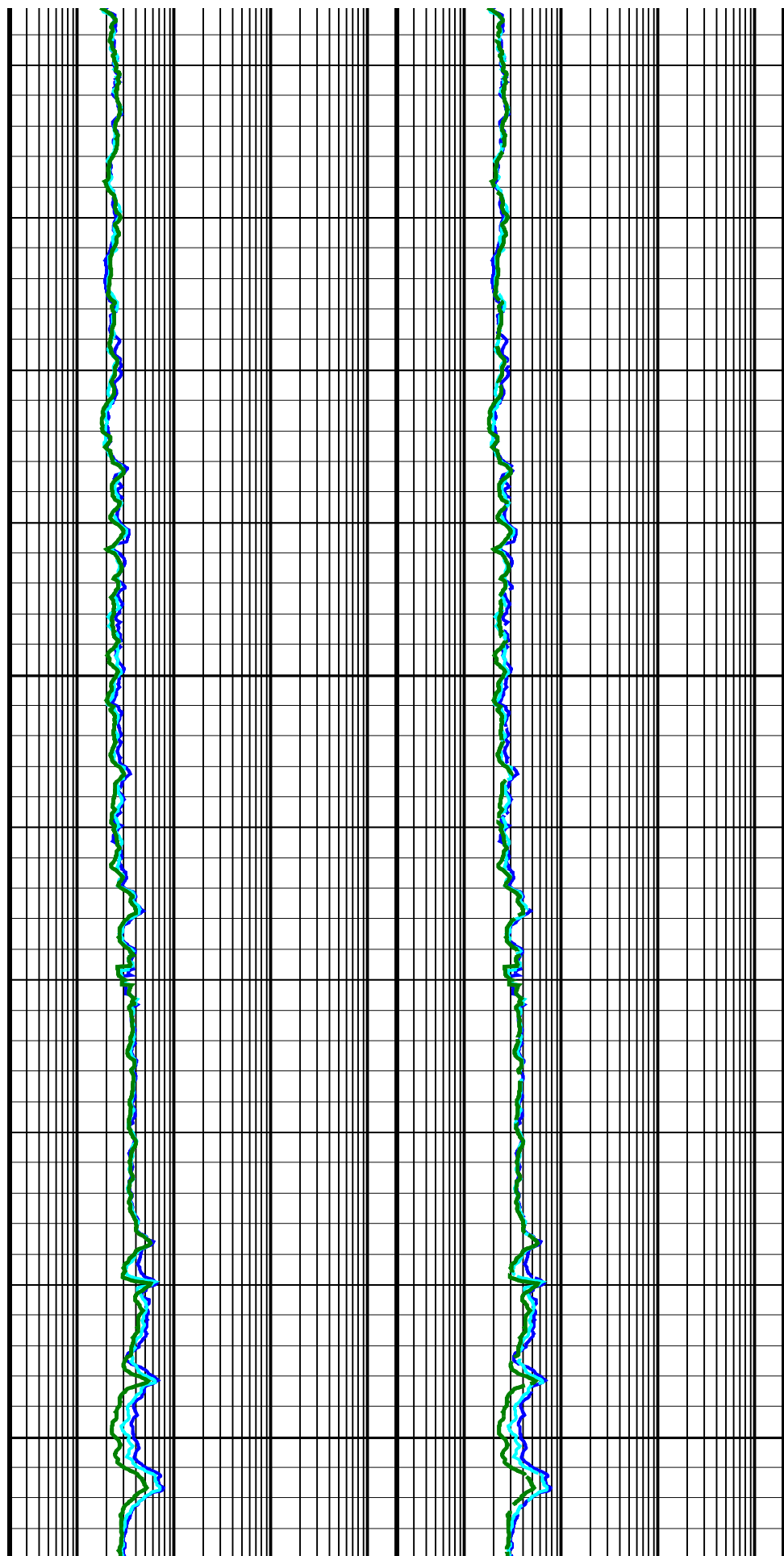


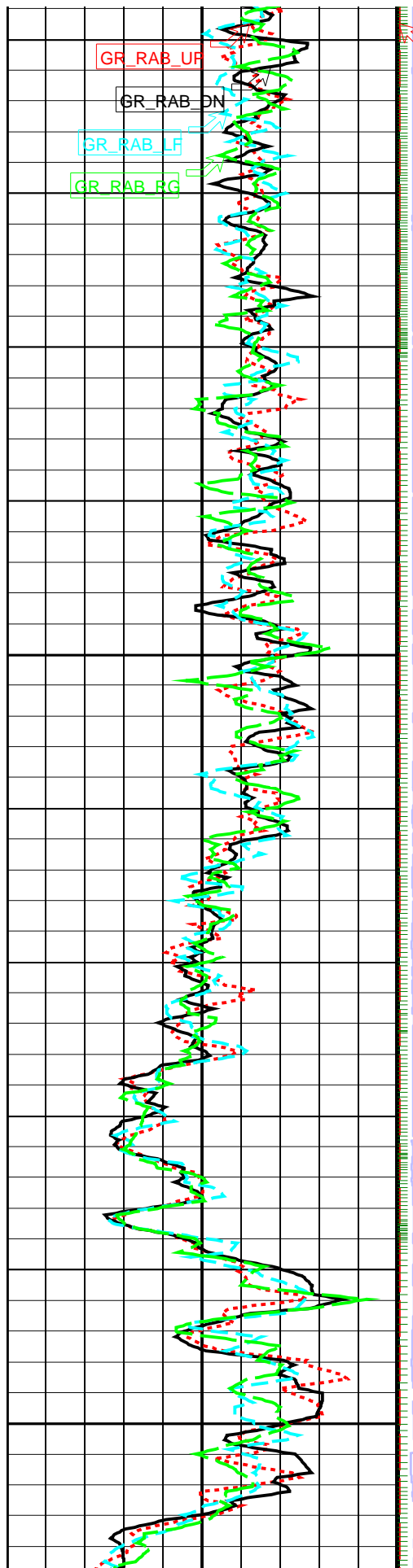




1925

1950



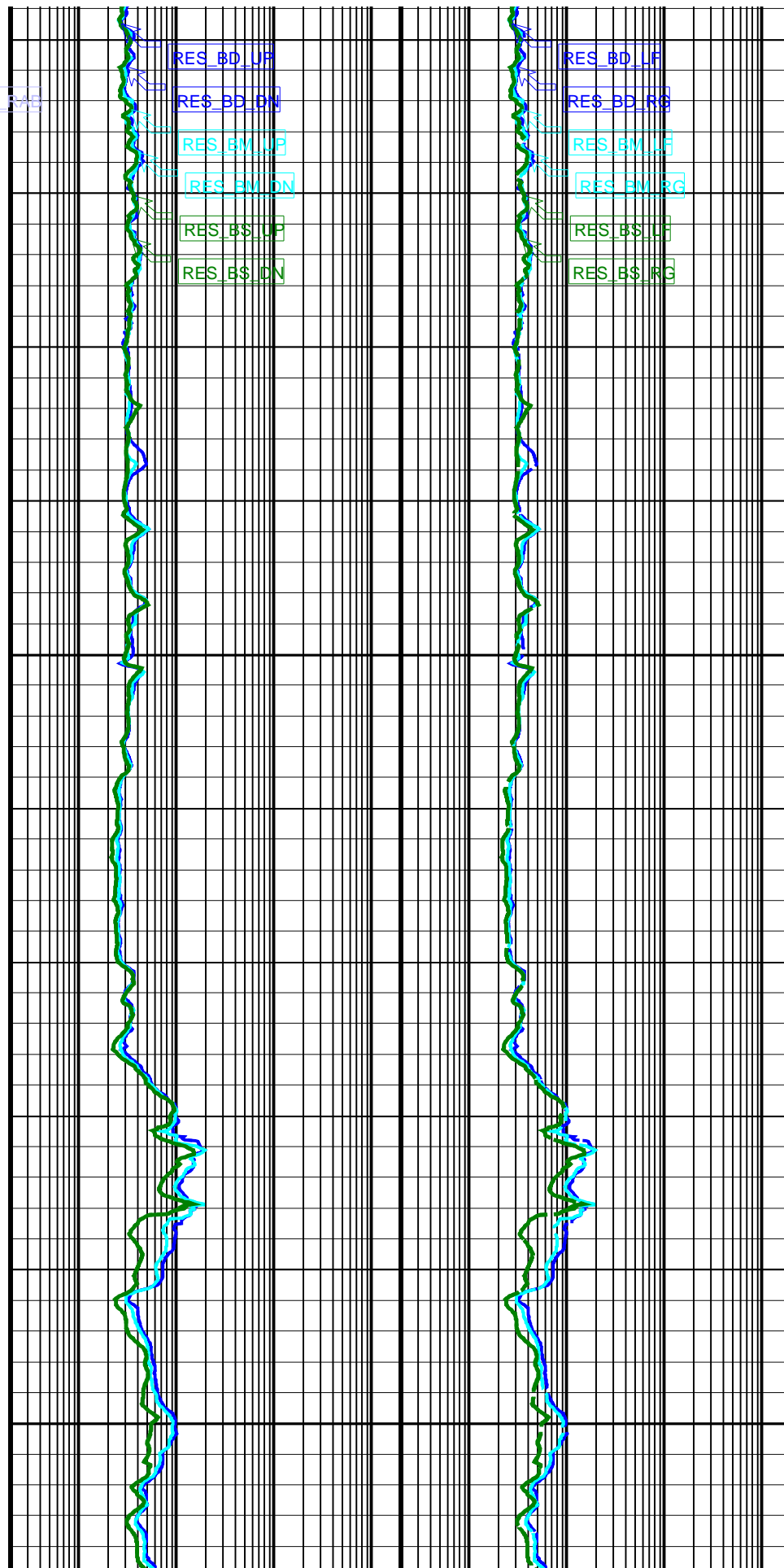


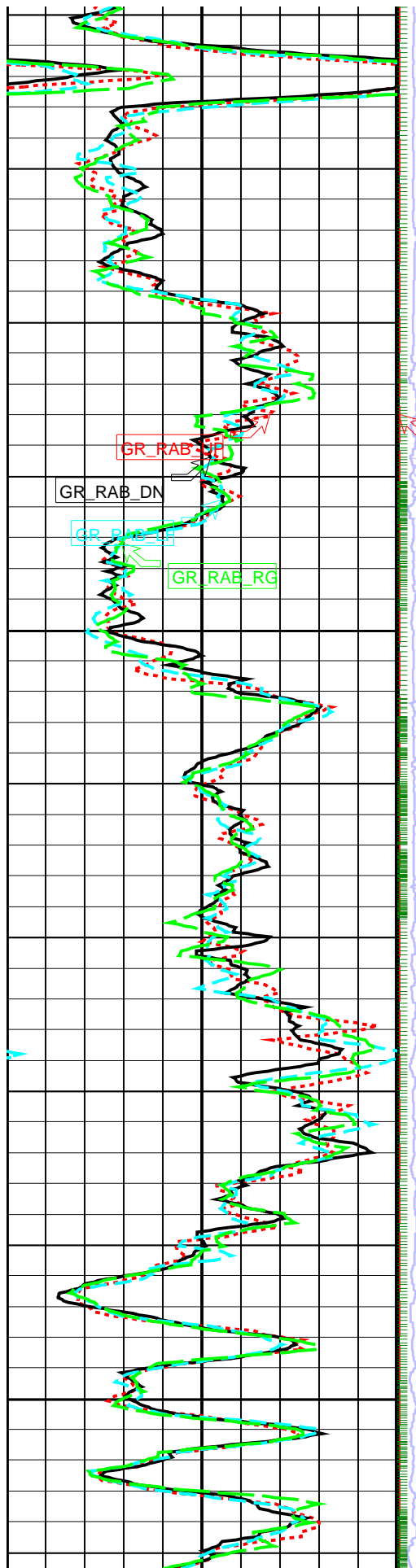
1975

2000

AAI

RPM



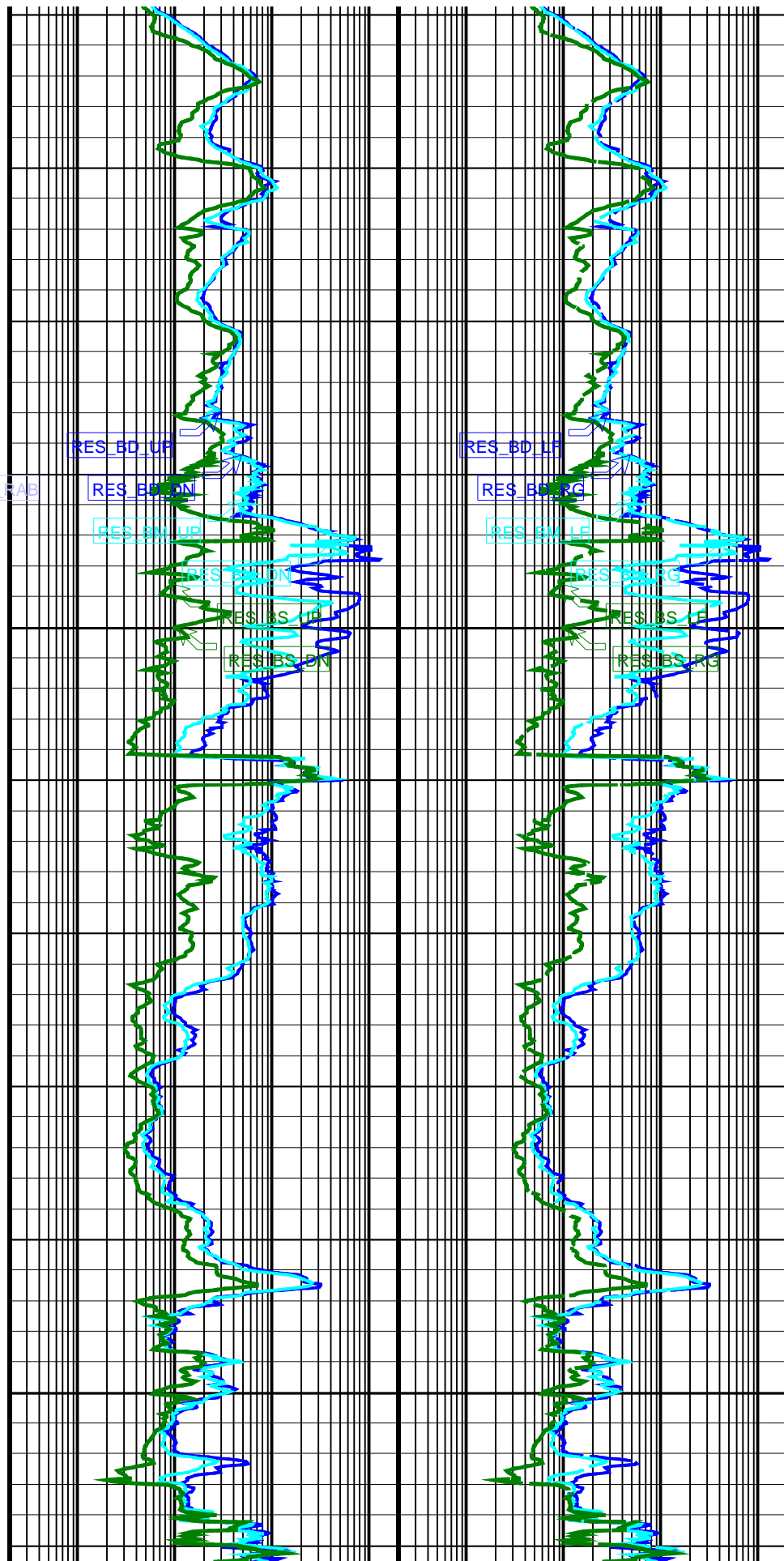


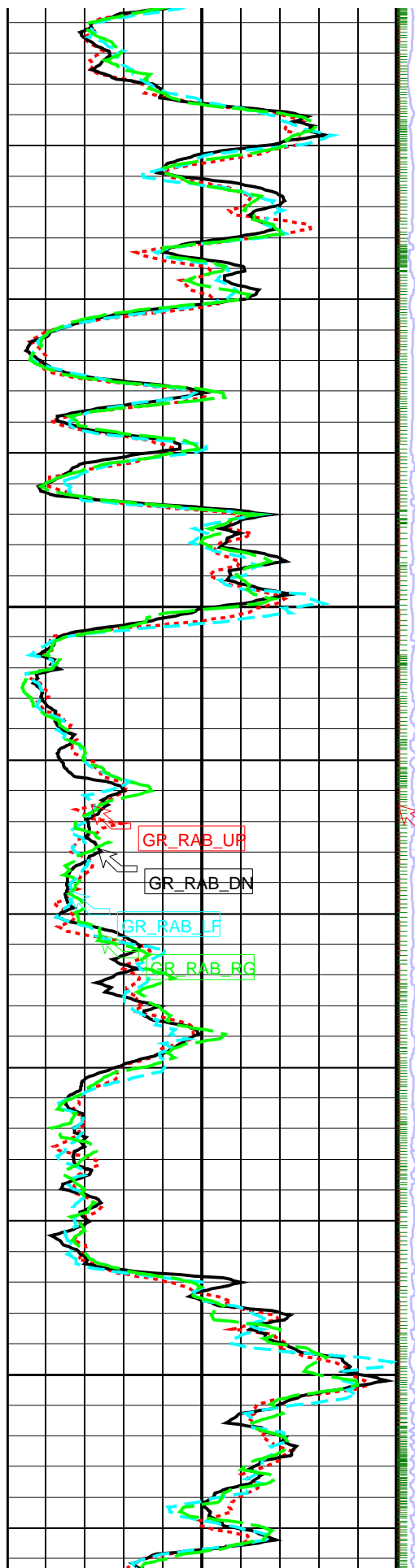
AAI

RPM_RAB

2025

2050





2075

2100

AAI

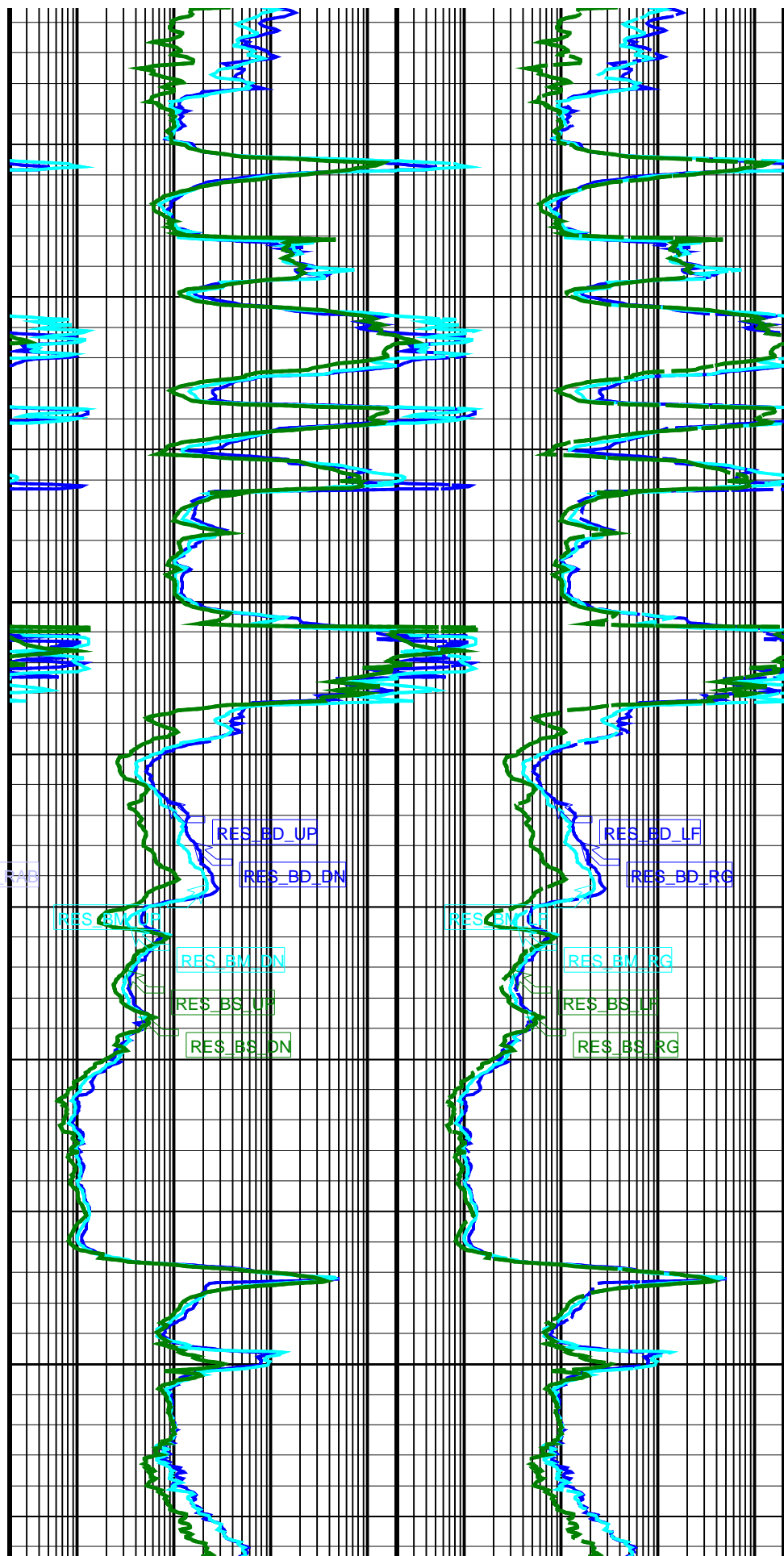
RPM 548

GRAB_UP

GRAB_DN

GRAB_LF

GRAB_RG



RES_BD_UP

RES_BD_DN

RES_BM_UP

RES_BM_DN

RES_BS_UP

RES_BS_DN

RES_BD_LF

RES_BD_RG

RES_BM_LF

RES_BM_RG

RES_BS_LF

RES_BS_RG

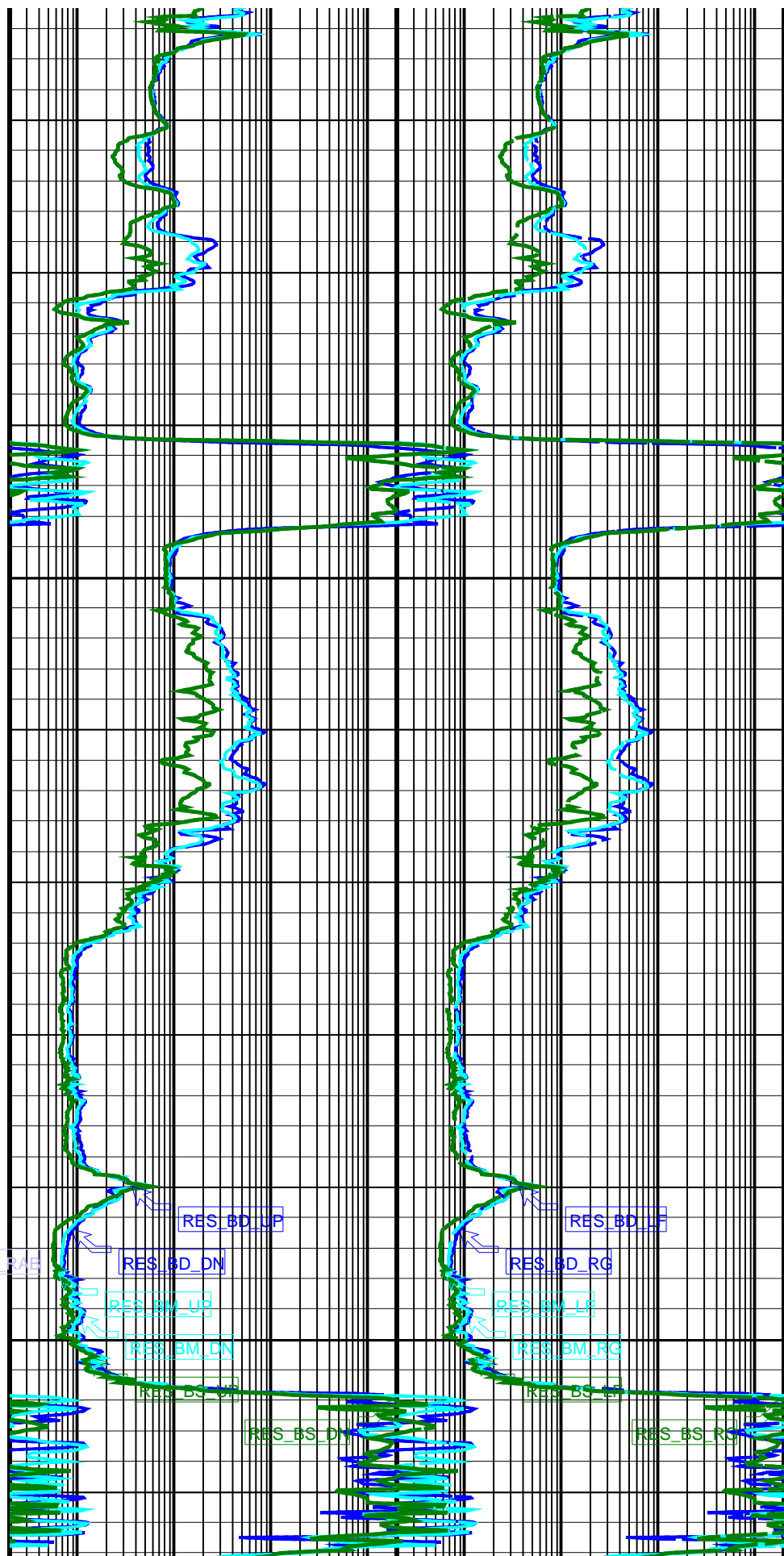


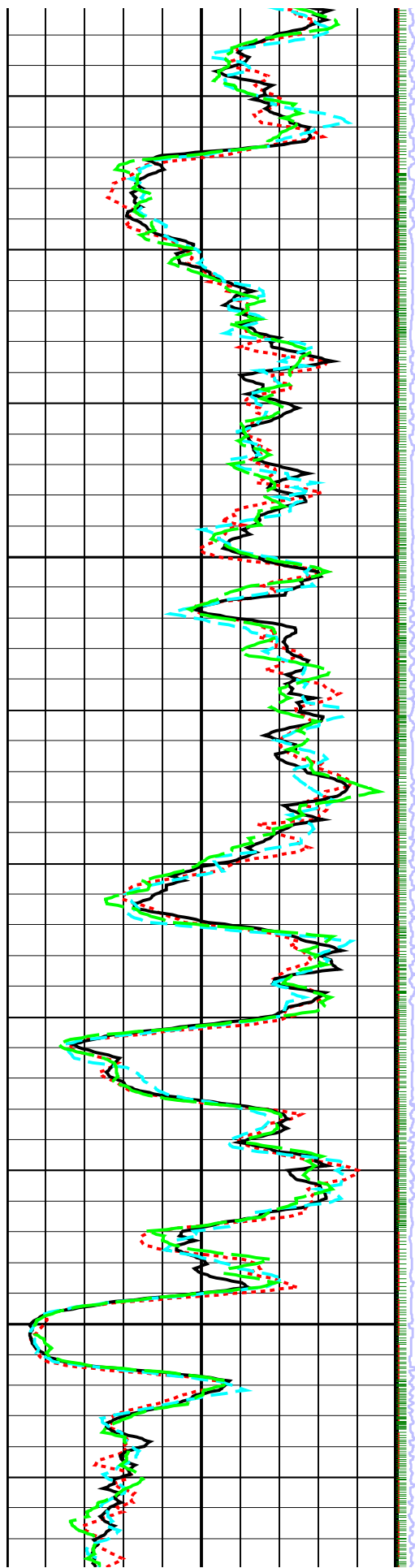
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2150

AAI

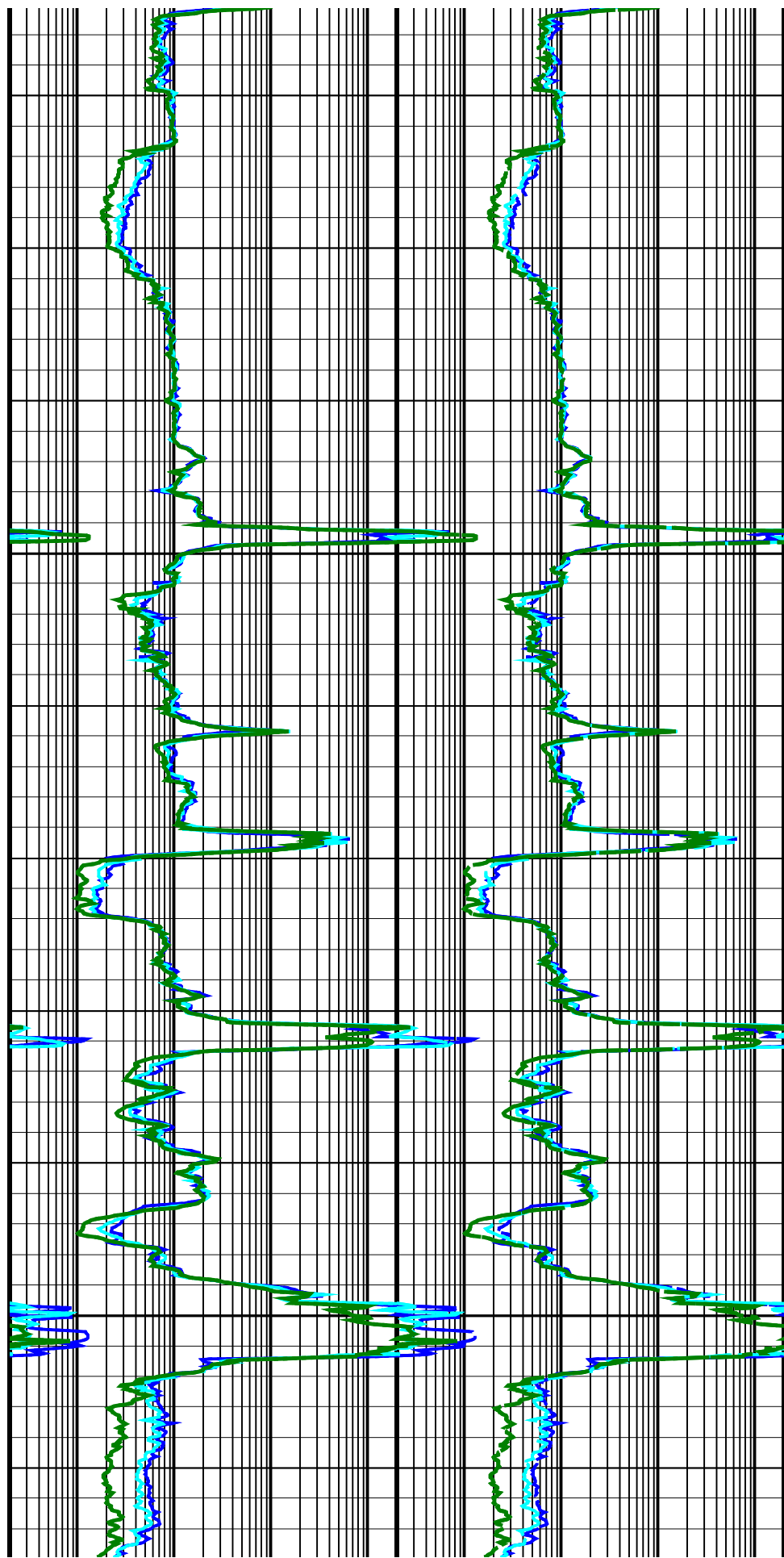
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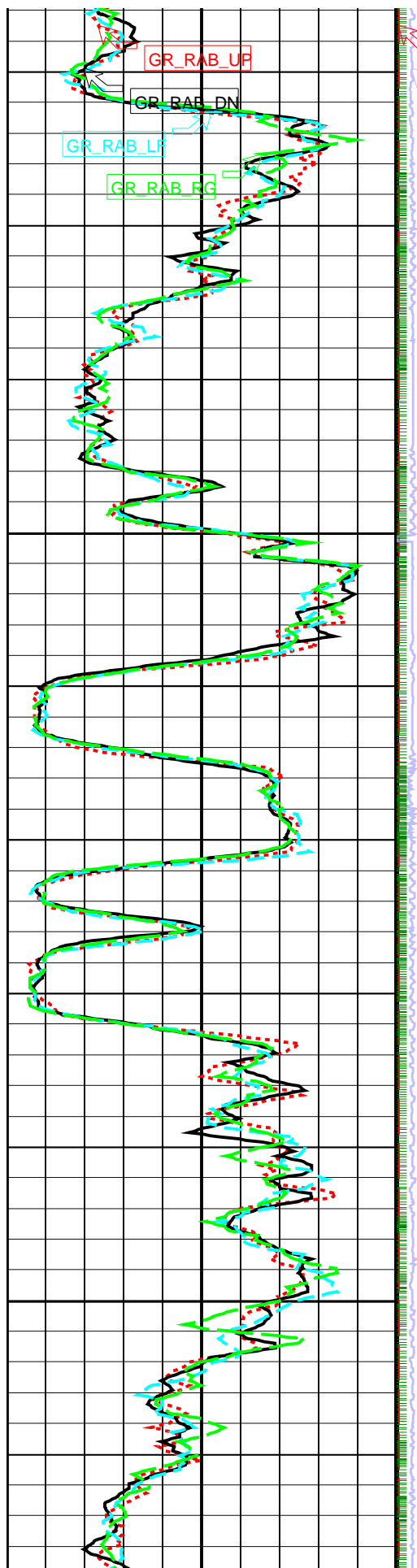




2175

2200



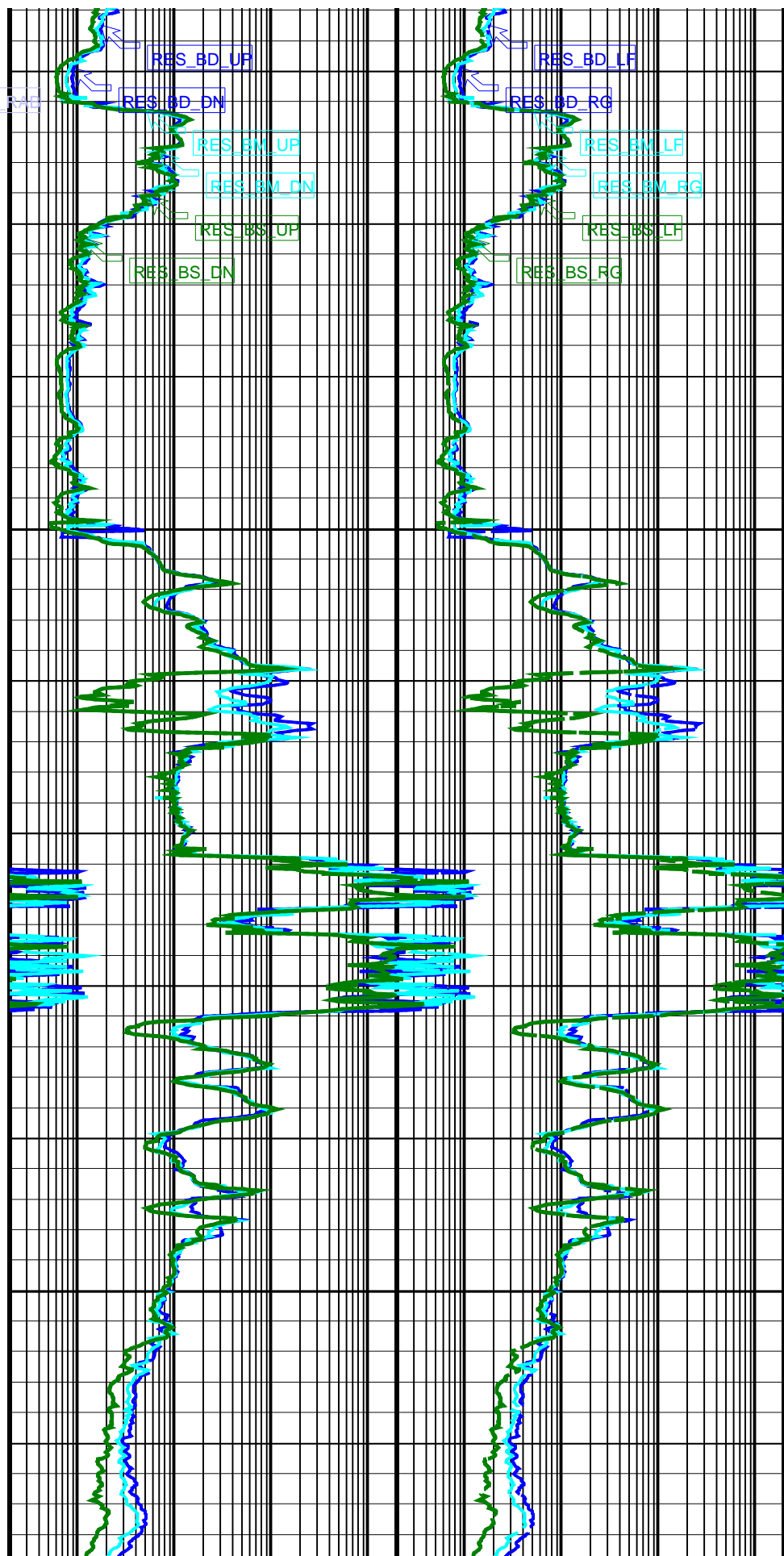


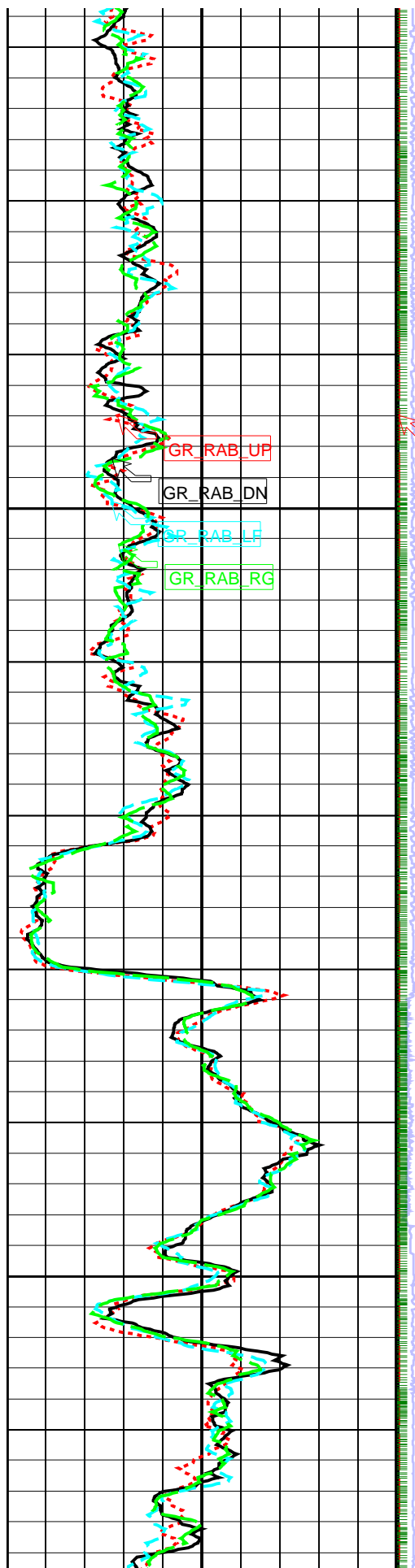
AAI

RPM

2225

2250



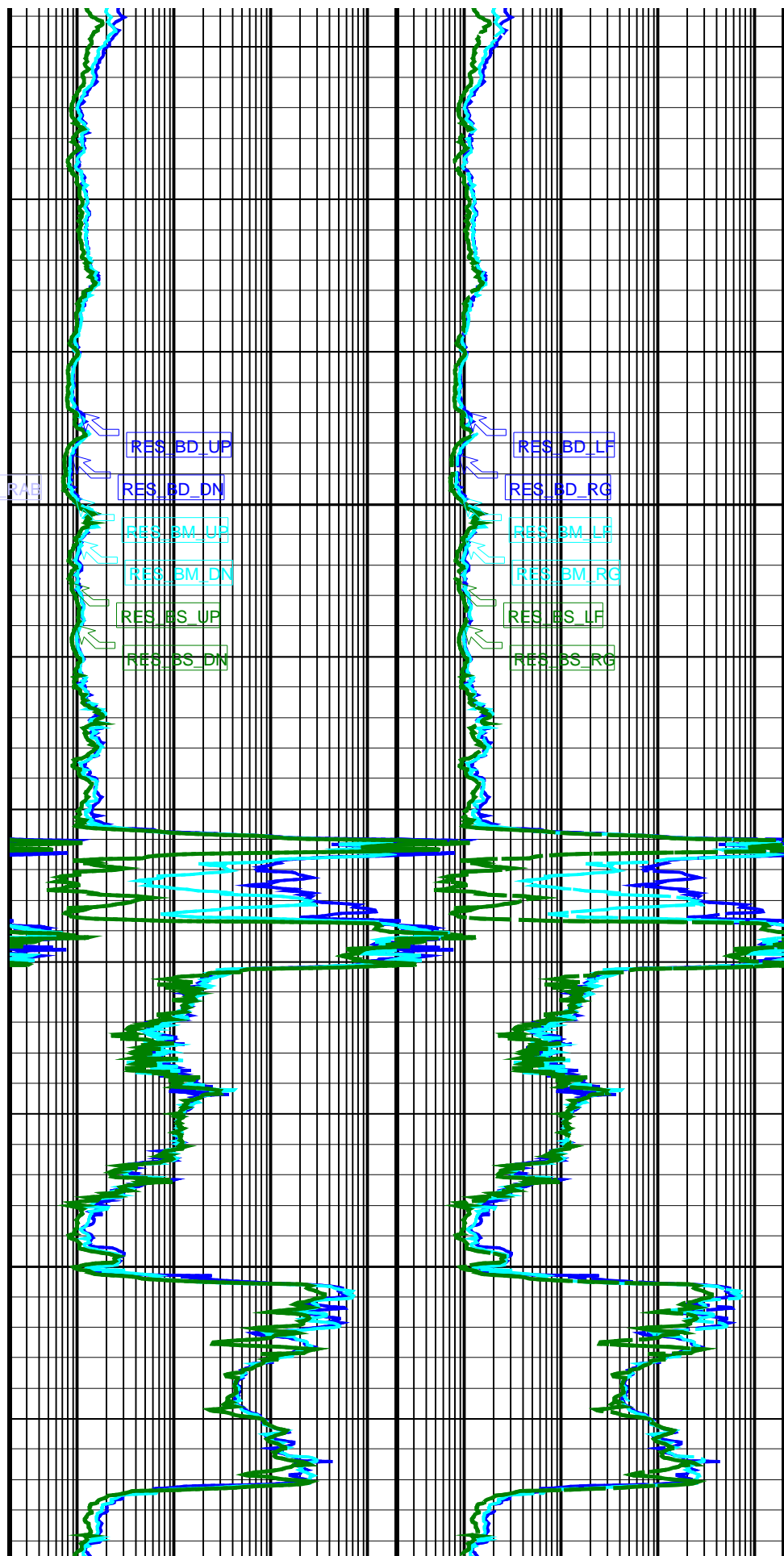


AAI

RPM GRAB

2275

2300



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RES_BD_DN

RES_BM_UP

RES_BM_DN

RES_ES_UP

RES_ES_DN

RES_BD_LF

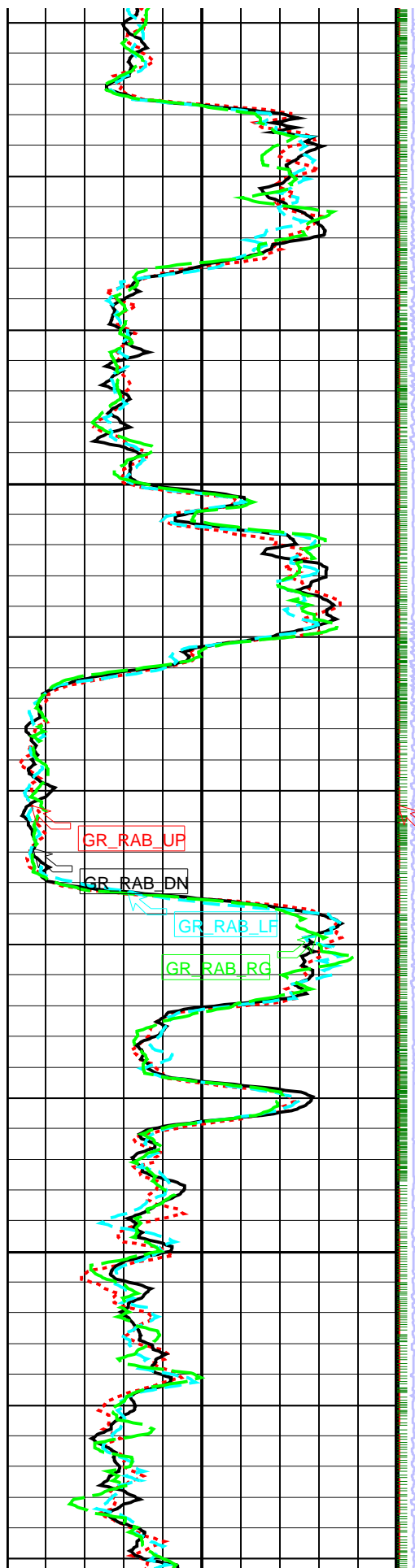
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RES_BM_LF

RES_BM_RG

RES_ES_LF

RES_ES_RG

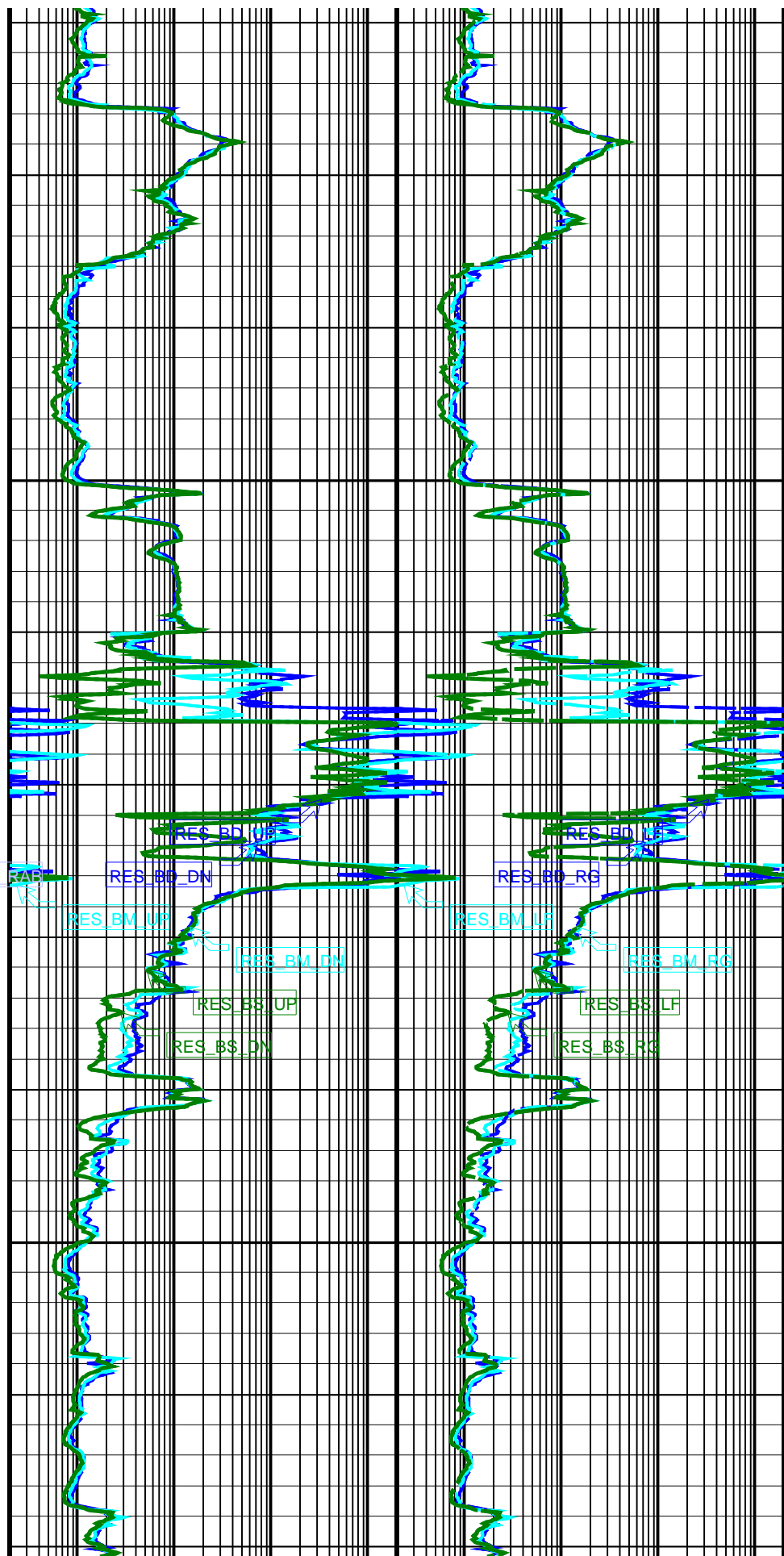


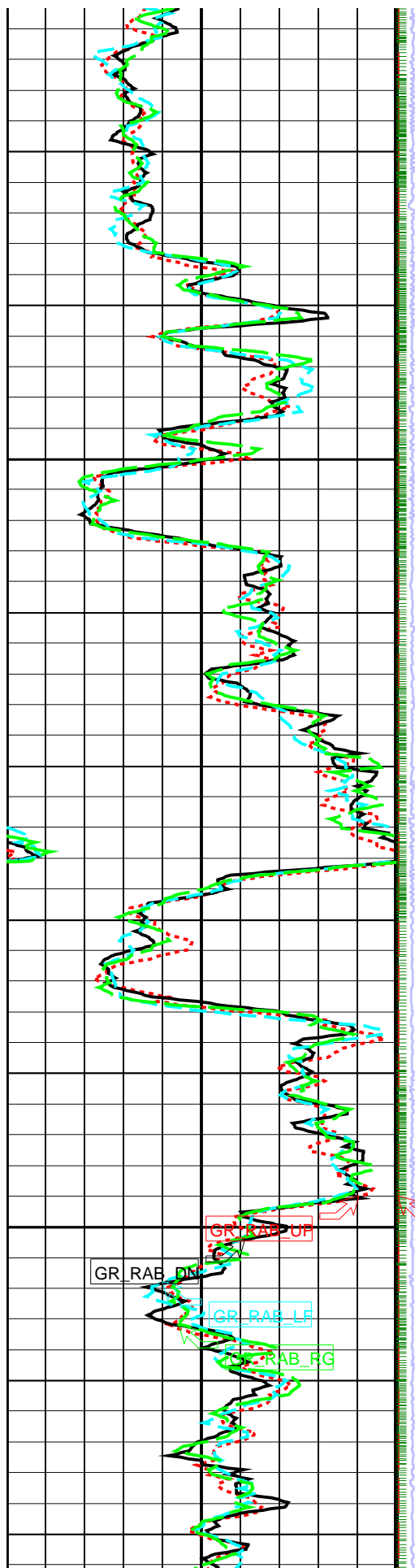
2325

2350

AAI

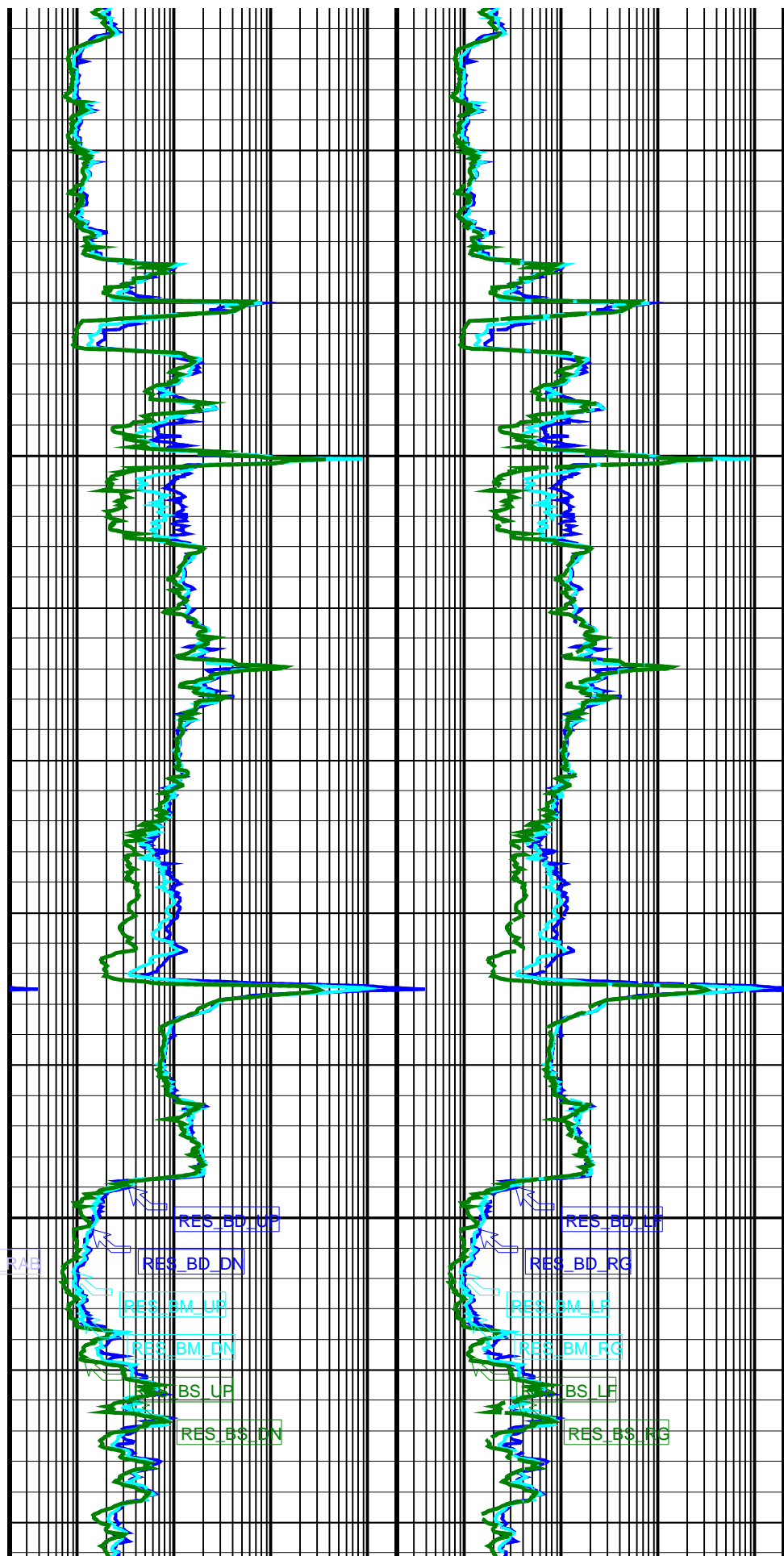
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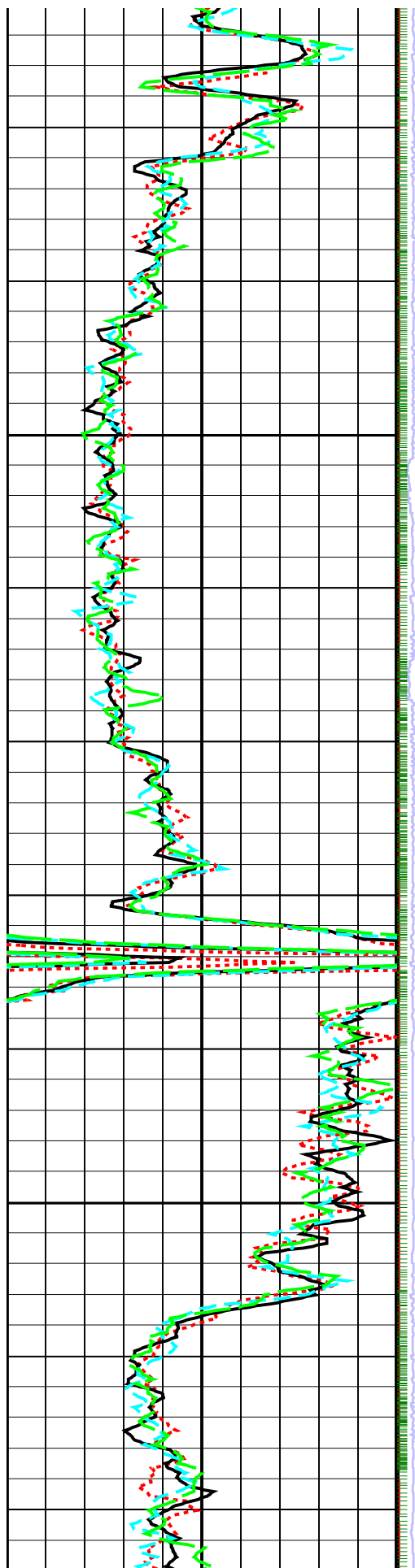




2375

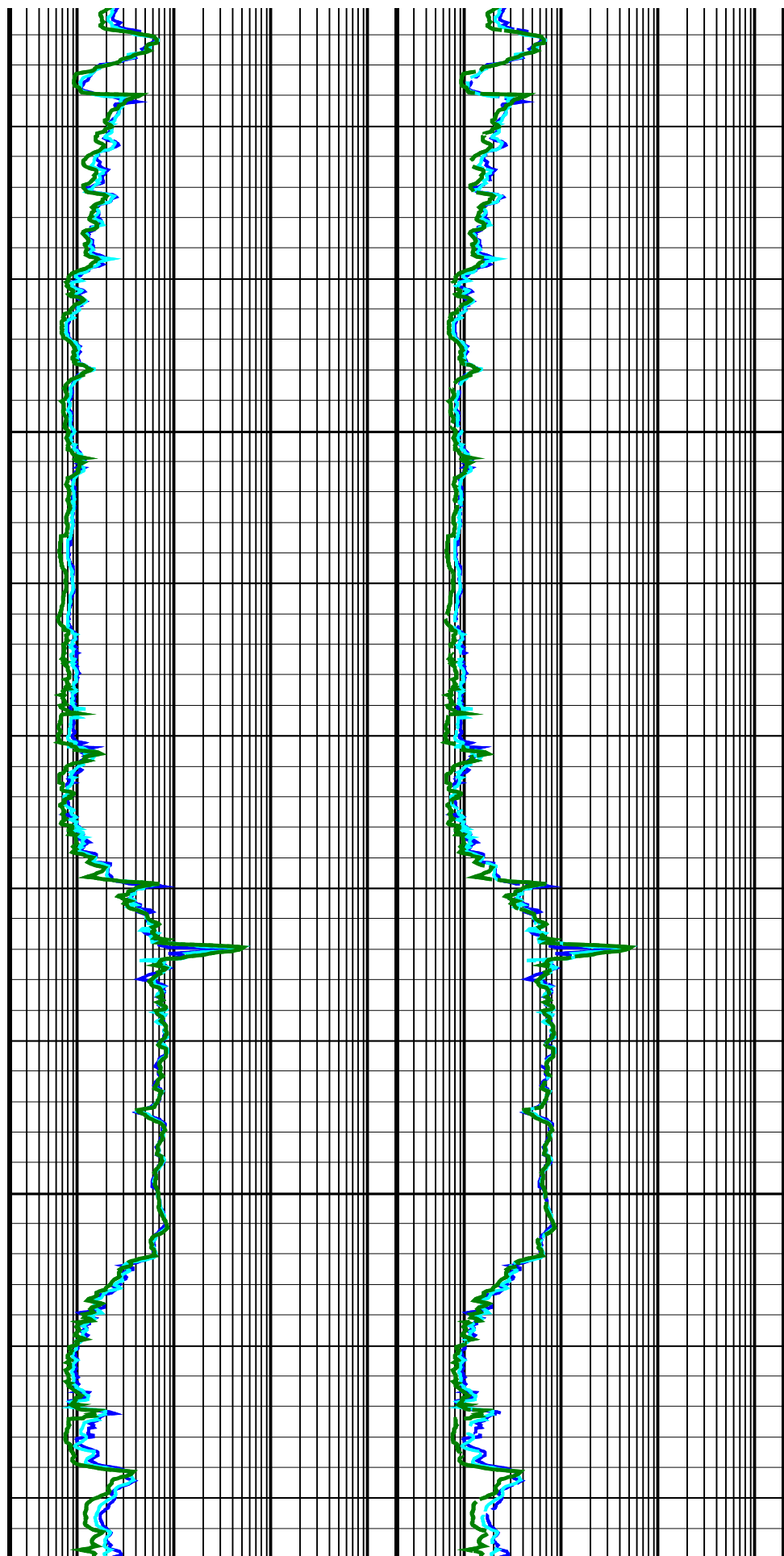
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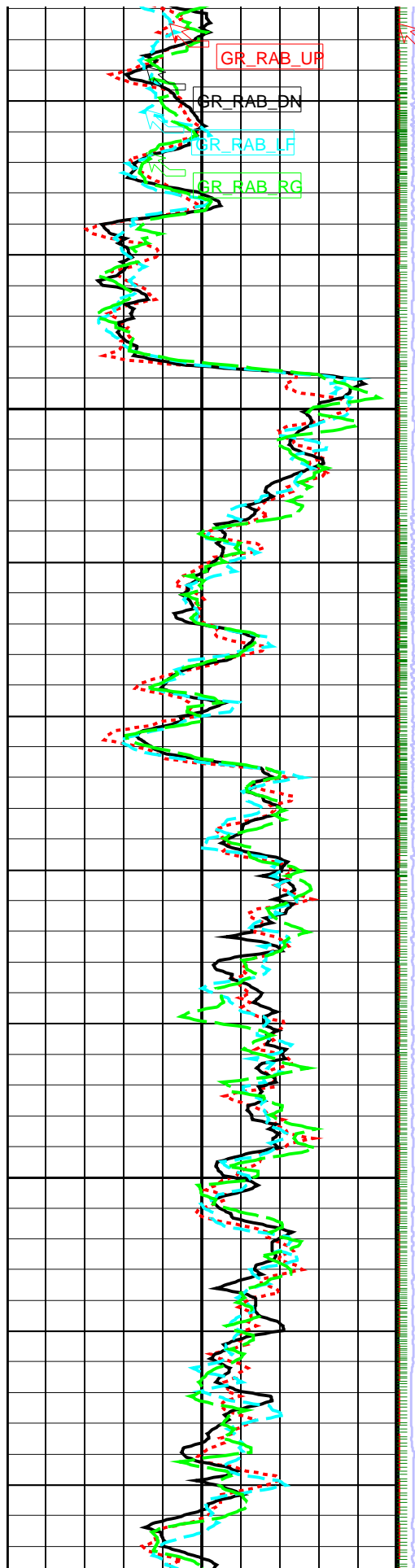




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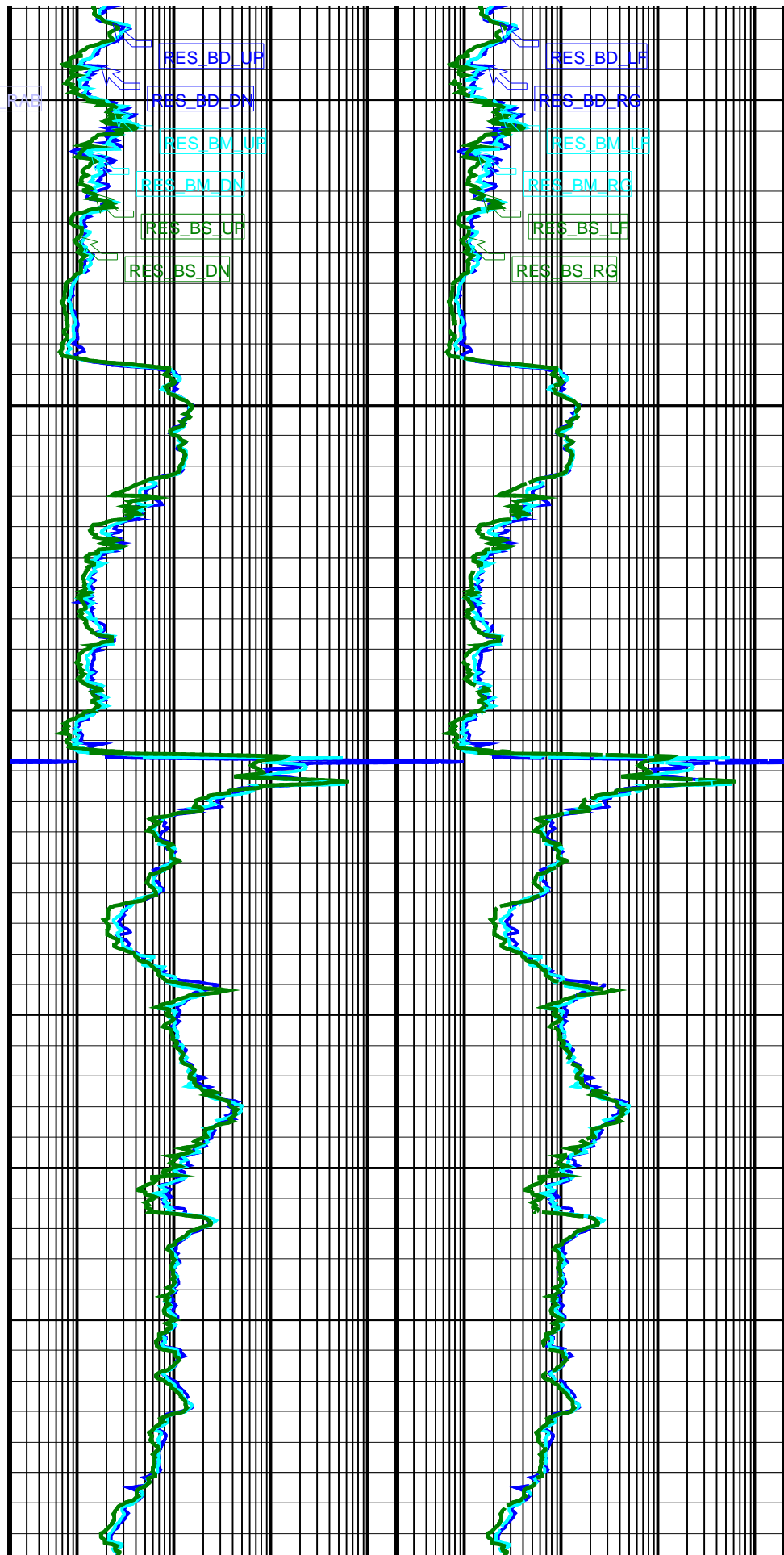
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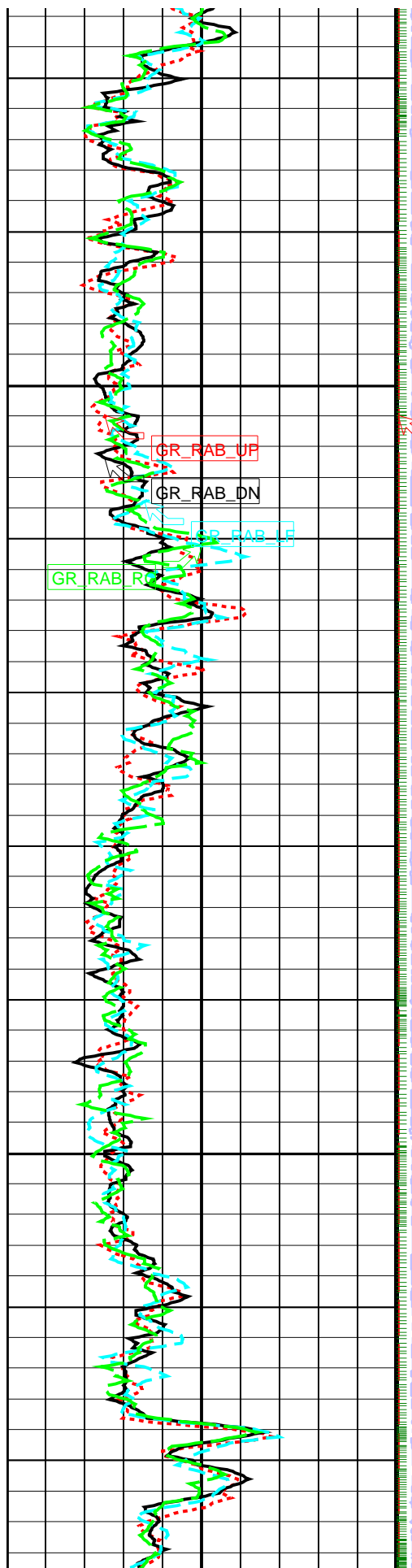




2475

2500

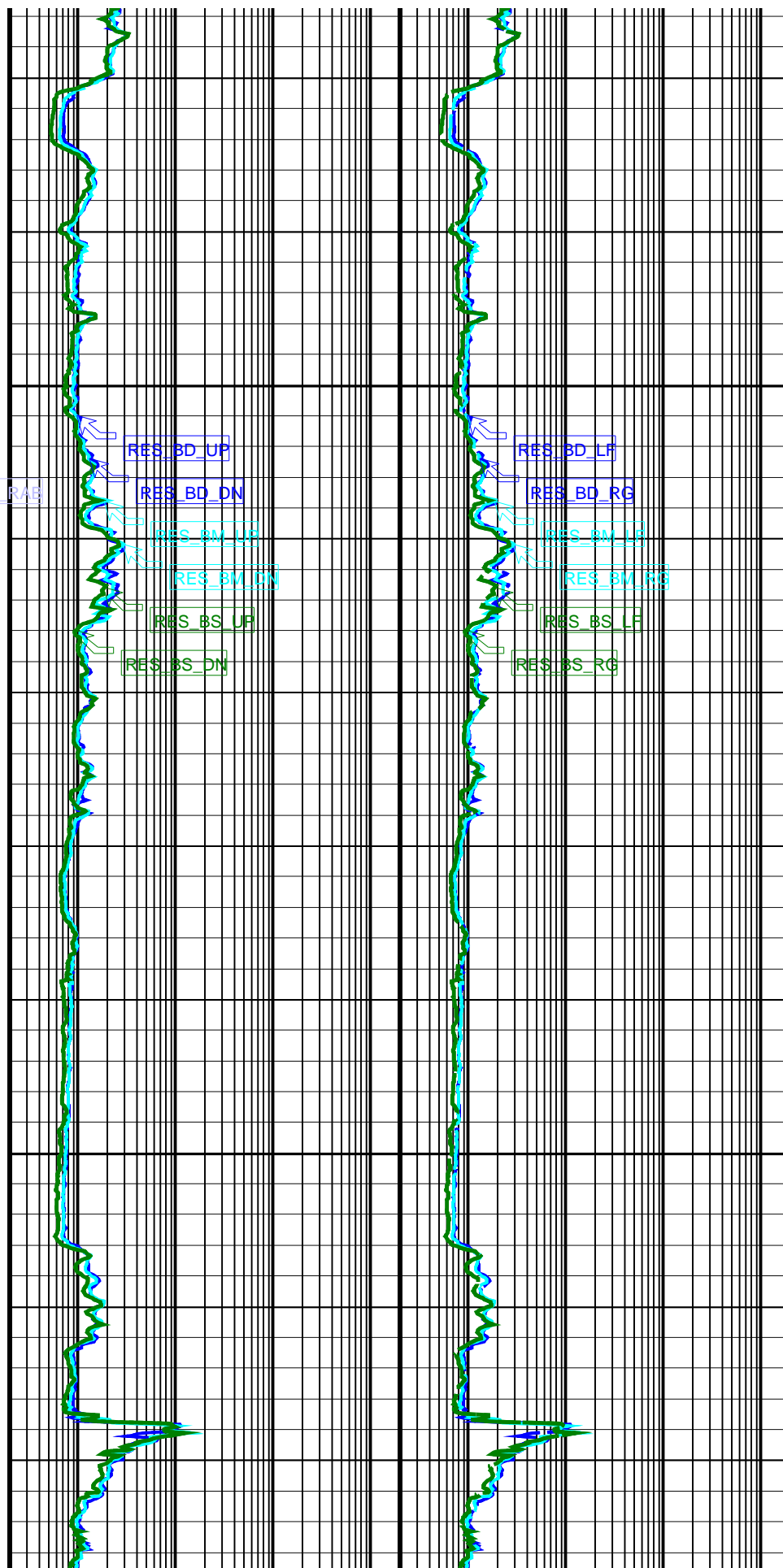




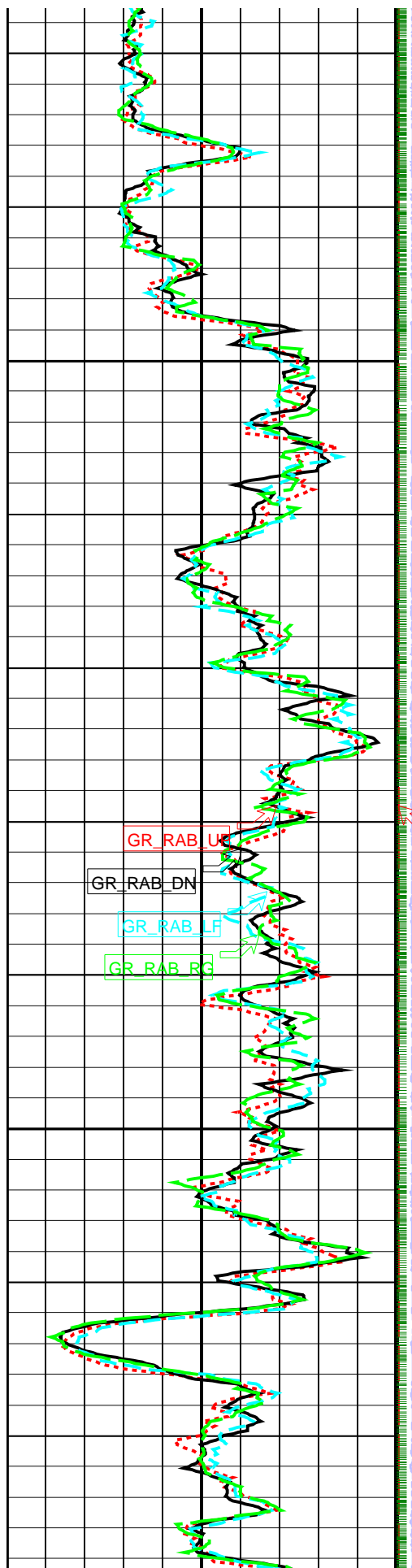
2525

AAI

RPM_RAB



2550

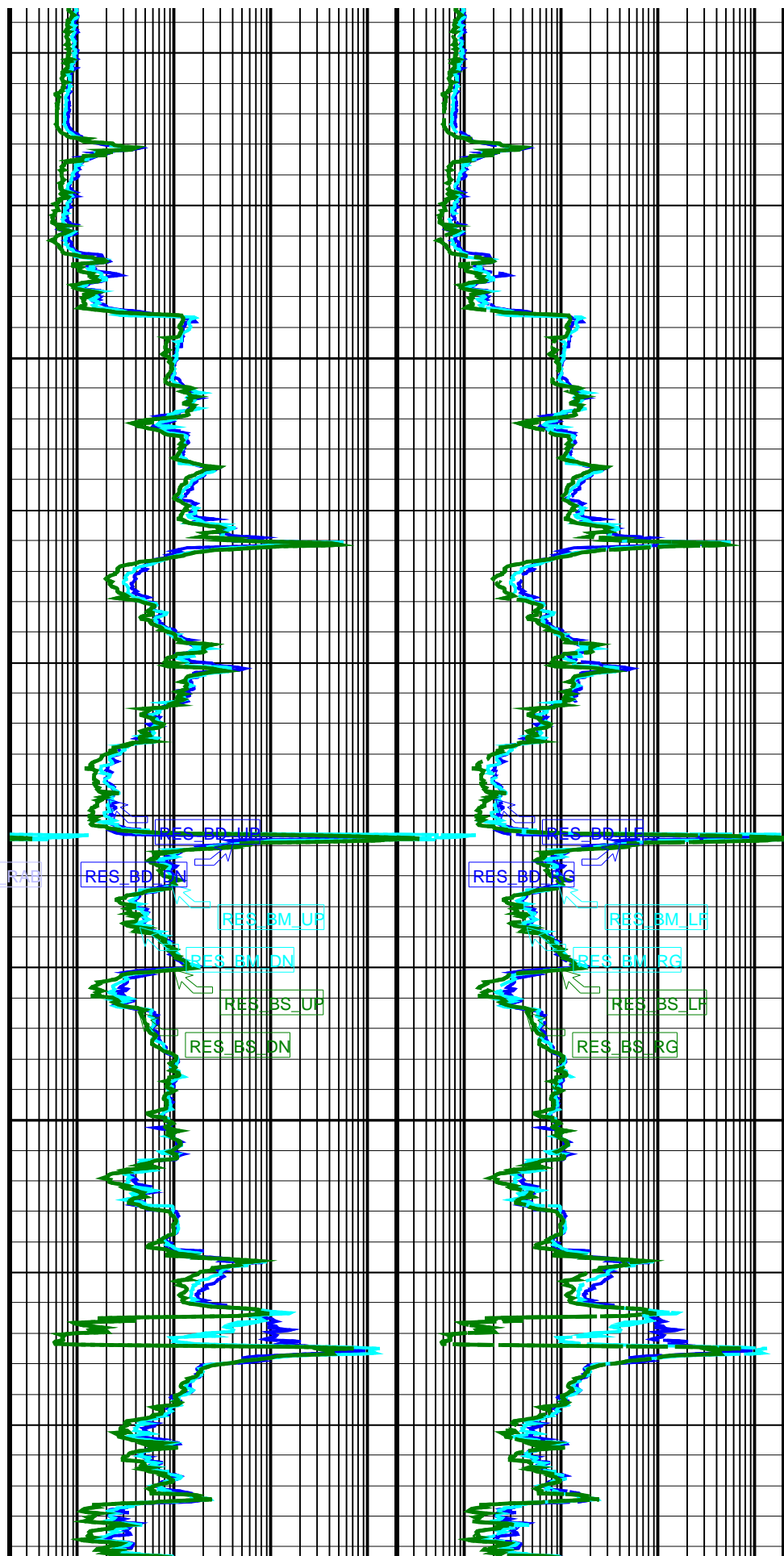


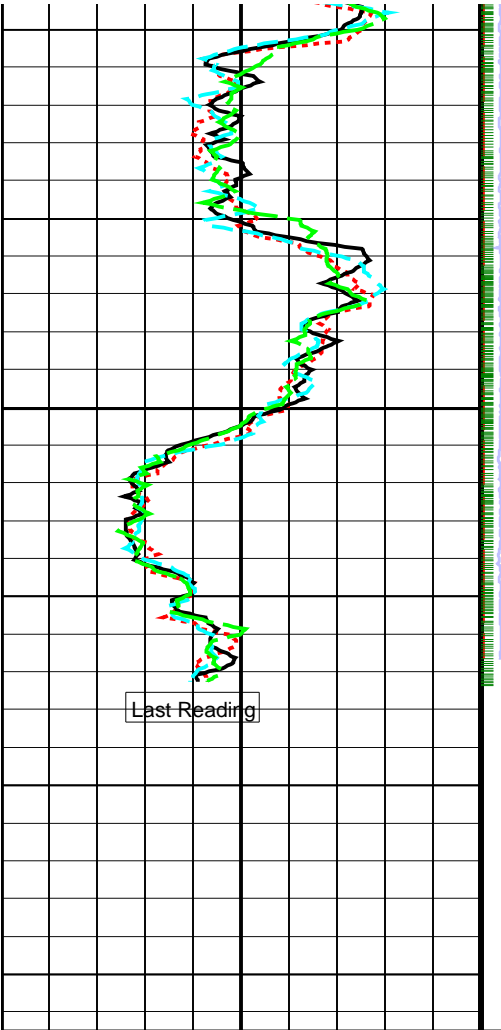
2575

2600

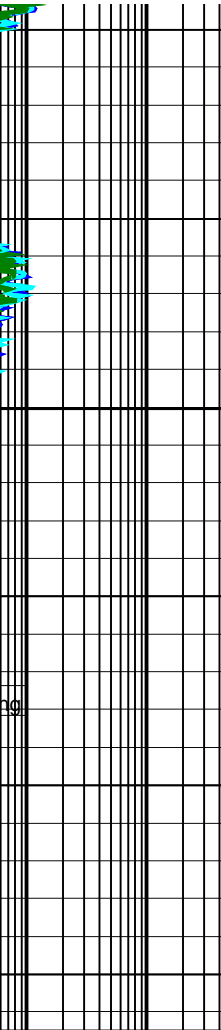
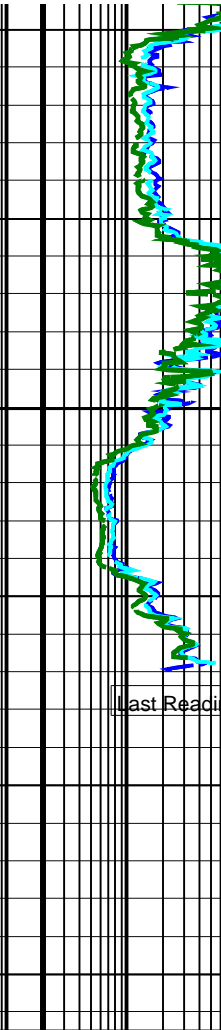
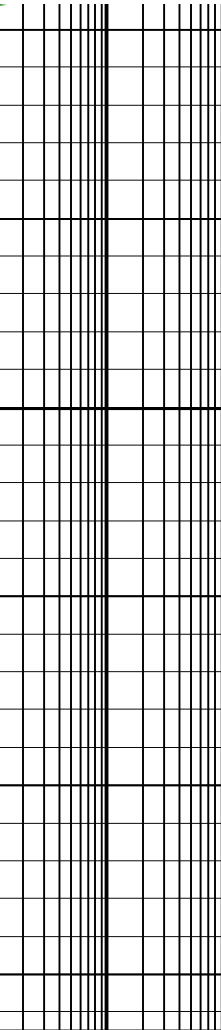
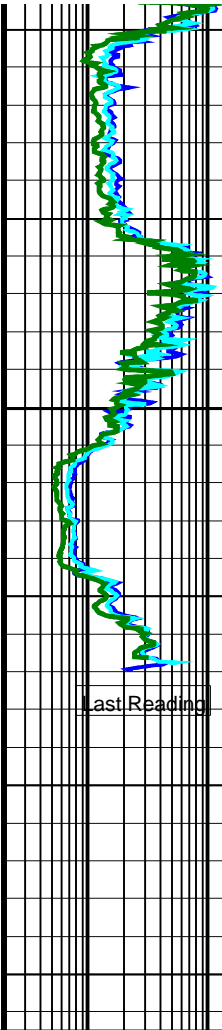
AAI

RPM





2625



<u>RAB Gamma Ray, Up (GR_RAB_UP)</u> 0 (GAPI) 200
<u>RAB Gamma Ray, Down (GR_RAB_DN)</u> 0 (GAPI) 200
<u>RAB Gamma Ray, Left (GR_RAB_LF)</u> 0 (GAPI) 200
<u>RAB Gamma Ray, Right (GR_RAB_RG)</u> 0 (GAPI) 200

RAB Rotational Speed (RPM_RAB) (RPM)
0 500

<u>Deep Button Resistivity, Up (RES_BD_UP)</u> 0.2 (OHMM) 2000
<u>Deep Button Resistivity, Down (RES_BD_DN)</u> 0.2 (OHMM) 2000
<u>Medium Button Resistivity, Up (RES_BM_UP)</u> 0.2 (OHMM) 2000
<u>Medium Button Resistivity, Down (RES_BM_DN)</u> 0.2 (OHMM) 2000
<u>Shallow Button Resistivity, Up (RES_BS_UP)</u> 0.2 (OHMM) 2000
<u>Shallow Button Resistivity, Down (RES_BS_DN)</u> 0.2 (OHMM) 2000

<u>Deep Button Resistivity, Left (RES_BD_LF)</u> 0.2 (OHMM) 2000
<u>Deep Button Resistivity, Right (RES_BD_RG)</u> 0.2 (OHMM) 2000
<u>Medium Button Resistivity, Left (RES_BM_LF)</u> 0.2 (OHMM) 2000
<u>Medium Button Resistivity, Right (RES_BM_RG)</u> 0.2 (OHMM) 2000
<u>Shallow Button Resistivity, Left (RES_BS_LF)</u> 0.2 (OHMM) 2000
<u>Shallow Button Resistivity, Right (RES_BS_RG)</u> 0.2 (OHMM) 2000

PIP SUMMARY

└ Gamma Ray Samples

IDEAL Version: ID10_0C_04

IDF

RAB id10_0c_04 MWD_10 id10_0c_04
ADN id10_0c_04




6.75-in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:
Tool Name and Serial Number ADN6 – CA 0403
Collar Type and Serial Number ADDC – AA 0403
Chassis Type and Serial Number ADSE – EA 18
Stabilizer Type and Serial Number Clamp-On 699198
Neutron Logging Source NSR – M 202
Density Logging Source GSR – J/Z 1994
Stabilizer Size 8.25 – in.
Calibration Status Valid

Master: 21-Jun-2005 11:22

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		1052	Master		2361	Master		6156
	250.0 (Minimum) 4125 (Nominal) 8000 (Maximum)			700.0 (Minimum) 9350 (Nominal) 18000 (Maximum)			2500 (Minimum) 23750 (Nominal) 45000 (Maximum)	

Master: 21-Jun-2005 11:22

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		163.3	Master		1238	Master		3922
	50.00 (Minimum) 725.0 (Nominal) 1400 (Maximum)			500.0 (Minimum) 4250 (Nominal) 8000 (Maximum)			1500 (Minimum) 15750 (Nominal) 30000 (Maximum)	

Master: 21-Jun-2005 11:22

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		33.84	Master		106.5	Master		474.2
	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: 21-Jun-2005 11:22

6.75-in. Azimuthal Density Neutron Calibration



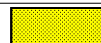






Density: Water Block Check

Phase	Long spacing water density G/C3	Value	Phase	Short spacing water density G/C3	Value
Master		1.030	Master		1.120
	1.024 (Minimum) 1.039 (Nominal) 1.054 (Maximum)			1.096 (Minimum) 1.126 (Nominal) 1.156 (Maximum)	

Master: 21-Jun-2005 11:22

6.75-in. Azimuthal Density Neutron Calibration

Neutron: 3-Point Calibration




Phase	Far 1 tube 1 Air Point Measure CPS	Value	Phase	Far 1 tube 1 Rod Point Measure CPS	Value	Phase	Far 1 tube 1 H2O Point Measure CPS	Value
Master		17.01	Master		4.142	Master		2.060
	15.00 (Minimum) 19.05 (Nominal) 21.00 (Maximum)			4.000 (Minimum) 4.857 (Nominal) 5.500 (Maximum)			1.900 (Minimum) 2.363 (Nominal) 2.700 (Maximum)	
Phase	Far 1 tube 2 Air Point Measure CPS	Value	Phase	Far 1 tube 2 Rod Point Measure CPS	Value	Phase	Far 1 tube 2 H2O Point Measure CPS	Value
Master		18.12	Master		4.335	Master		2.137
	16.00 (Minimum) 19.05 (Nominal) 22.00 (Maximum)			4.000 (Minimum) 4.857 (Nominal) 5.500 (Maximum)			1.900 (Minimum) 2.363 (Nominal) 2.800 (Maximum)	
Phase	Far 1 tube 3 Air Point Measure CPS	Value	Phase	Far 1 tube 3 Rod Point Measure CPS	Value	Phase	Far 1 tube 3 H2O Point Measure CPS	Value
Master		17.15	Master		4.188	Master		2.066


15.00 (Minimum)	19.05 (Nominal)	21.00 (Maximum)	4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)	1.900 (Minimum)	2.363 (Nominal)	2.700 (Maximum)
Phase Far 2 tube 1 Air Point Measure	CPS	Value	Phase Far 2 tube 1 Rod Point Measure	CPS	Value	Phase Far 2 tube 1 H2O Point Measure	CPS	Value
Master		17.52	Master		4.365	Master		2.173
15.00 (Minimum)	19.05 (Nominal)	21.00 (Maximum)	4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)	1.900 (Minimum)	2.363 (Nominal)	2.700 (Maximum)
Phase Far 2 tube 2 Air Point Measure	CPS	Value	Phase Far 2 tube 2 Rod Point Measure	CPS	Value	Phase Far 2 tube 2 H2O Point Measure	CPS	Value
Master		18.07	Master		4.211	Master		1.982
16.00 (Minimum)	19.05 (Nominal)	22.00 (Maximum)	4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)	1.900 (Minimum)	2.363 (Nominal)	2.800 (Maximum)
Phase Far 2 tube 3 Air Point Measure	CPS	Value	Phase Far 2 tube 3 Rod Point Measure	CPS	Value	Phase Far 2 tube 3 H2O Point Measure	CPS	Value
Master		17.03	Master		4.348	Master		2.060
15.00 (Minimum)	19.05 (Nominal)	21.00 (Maximum)	4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)	1.900 (Minimum)	2.363 (Nominal)	2.700 (Maximum)
Phase Near 1 tube 1 Air Point Measure	CPS	Value	Phase Near 1 tube 1 Rod Point Measure	CPS	Value	Phase Near 1 tube 1 H2O Point Measure	CPS	Value
Master		458.8	Master		722.7	Master		319.9
400.0 (Minimum)	487.5 (Nominal)	540.0 (Maximum)	610.0 (Minimum)	768.8 (Nominal)	850.0 (Maximum)	270.0 (Minimum)	343.7 (Nominal)	390.0 (Maximum)
Phase Near 2 tube 1 Air Point Measure	CPS	Value	Phase Near 2 tube 1 Rod Point Measure	CPS	Value	Phase Near 2 tube 1 H2O Point Measure	CPS	Value
Master		454.0	Master		727.3	Master		320.0
400.0 (Minimum)	487.5 (Nominal)	540.0 (Maximum)	610.0 (Minimum)	768.8 (Nominal)	850.0 (Maximum)	270.0 (Minimum)	343.7 (Nominal)	390.0 (Maximum)

Master: 21-Jun-2005 11:22		
6.75-in. Azimuthal Density Neutron Calibration		
Neutron: Water Block Check		
Phase	Far Neutron water porosity PU	Value
Master		92.83
	90.00 (Minimum)	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: 29-Jul-2005 15:21		
6.75-in. Resistivity At-the-Bit Calibration		
Resistivity: Fixture		
Phase	Ring/T1 factor ----	Value
Master		0.9949
	0.9750 (Minimum)	1.025 (Maximum)
Phase	M0/T2 factor ----	Value
Master		1.003
	0.9750 (Minimum)	1.025 (Maximum)
Phase	BTN shallow/T1 factor ----	Value
Master		1.002
	0.9750 (Minimum)	1.025 (Maximum)
Phase	Ring/T2 factor ----	Value
Master		0.9924
	0.9750 (Minimum)	1.025 (Maximum)
Phase	M2/T1 factor ----	Value
Master		1.007
	0.9750 (Minimum)	1.025 (Maximum)
Phase	M2/T2 factor ----	Value
Master		1.003
	0.9750 (Minimum)	1.025 (Maximum)
Phase	BTN shallow/T2 factor ----	Value
Master		0.9996
	0.9750 (Minimum)	1.025 (Maximum)
Phase	BTN medium/T1 factor ----	Value
Master		0.9951
	0.9750 (Minimum)	1.025 (Maximum)




(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (Maximum)					
Phase	BTN medium/T2 factor -----		Value	Phase	BTN deep/T1 factor -----		Value	Phase	BTN deep/T2 factor -----		Value
Master			0.9922	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: 29-Jul-2005 15:21											
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)		

6.75-in. Azimuthal Density Neutron / Equipment Identification											
<div> <div> Primary Equipment: Tool Name and Serial Number Collar Type and Serial Number Chassis Type and Serial Number Stabilizer Type and Serial Number Neutron Logging Source Density Logging Source Stabilizer Size Calibration Status </div> <div> ADN6 - CA ADDC - AA ADSE - EA JES NSR - M GSR - J/Z 8-3/16 - in. Valid </div> <div> FE55 FE55 380 202 1994 </div> </div>											

Master: 19-Jun-2005 14:46											
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			1069	Master			2586	Master			6392
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)		700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)		2500 (Minimum)	23750 (Nominal)	45000 (Maximum)

Master: 19-Jun-2005 14:46											
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			160.3	Master			1306	Master			4004
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)		500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)		1500 (Minimum)	15750 (Nominal)	30000 (Maximum)

Master: 19-Jun-2005 14:46											
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			50.02	Master			127.9	Master			555.3
	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: 19-Jun-2005 14:46									
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				1.031	Master				1.130
	1.024 (Minimum)	1.039 (Nominal)	1.054 (Maximum)			1.096 (Minimum)	1.126 (Nominal)	1.156 (Maximum)	

Master: 19-Jun-2005 14:46											
6.75-in. Azimuthal Density Neutron Calibration											
Neutron: 3-Point Calibration											
Phase	Far 1 tube 1 Air Point Measure CPS		Value	Phase	Far 1 tube 1 Rod Point Measure CPS		Value	Phase	Far 1 tube 1 H2O Point Measure CPS		Value

Phase	Far 1 tube 1 Air Point Measure	CPS	Value	Phase	Far 1 tube 1 Rod Point Measure	CPS	Value	Phase	Far 1 tube 1 H2O Point Measure	CPS	Value
Master			17.72	Master			4.474	Master			2.147
	15.00 (Minimum)	19.05 (Nominal)	21.00 (Maximum)		4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)		1.900 (Minimum)	2.363 (Nominal)	2.700 (Maximum)
Phase	Far 1 tube 2 Air Point Measure	CPS	Value	Phase	Far 1 tube 2 Rod Point Measure	CPS	Value	Phase	Far 1 tube 2 H2O Point Measure	CPS	Value
Master			18.93	Master			4.707	Master			2.299
	16.00 (Minimum)	19.05 (Nominal)	22.00 (Maximum)		4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)		1.900 (Minimum)	2.363 (Nominal)	2.800 (Maximum)
Phase	Far 1 tube 3 Air Point Measure	CPS	Value	Phase	Far 1 tube 3 Rod Point Measure	CPS	Value	Phase	Far 1 tube 3 H2O Point Measure	CPS	Value
Master			18.55	Master			4.486	Master			2.279
	15.00 (Minimum)	19.05 (Nominal)	21.00 (Maximum)		4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)		1.900 (Minimum)	2.363 (Nominal)	2.700 (Maximum)
Phase	Far 2 tube 1 Air Point Measure	CPS	Value	Phase	Far 2 tube 1 Rod Point Measure	CPS	Value	Phase	Far 2 tube 1 H2O Point Measure	CPS	Value
Master			17.65	Master			4.416	Master			2.151
	15.00 (Minimum)	19.05 (Nominal)	21.00 (Maximum)		4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)		1.900 (Minimum)	2.363 (Nominal)	2.700 (Maximum)
Phase	Far 2 tube 2 Air Point Measure	CPS	Value	Phase	Far 2 tube 2 Rod Point Measure	CPS	Value	Phase	Far 2 tube 2 H2O Point Measure	CPS	Value
Master			18.97	Master			4.543	Master			2.222
	16.00 (Minimum)	19.05 (Nominal)	22.00 (Maximum)		4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)		1.900 (Minimum)	2.363 (Nominal)	2.800 (Maximum)
Phase	Far 2 tube 3 Air Point Measure	CPS	Value	Phase	Far 2 tube 3 Rod Point Measure	CPS	Value	Phase	Far 2 tube 3 H2O Point Measure	CPS	Value
Master			18.19	Master			4.596	Master			2.253
	15.00 (Minimum)	19.05 (Nominal)	21.00 (Maximum)		4.000 (Minimum)	4.857 (Nominal)	5.500 (Maximum)		1.900 (Minimum)	2.363 (Nominal)	2.700 (Maximum)
Phase	Near 1 tube 1 Air Point Measure	CPS	Value	Phase	Near 1 tube 1 Rod Point Measure	CPS	Value	Phase	Near 1 tube 1 H2O Point Measure	CPS	Value
Master			455.2	Master			728.7	Master			326.1
	400.0 (Minimum)	487.5 (Nominal)	540.0 (Maximum)		610.0 (Minimum)	768.8 (Nominal)	850.0 (Maximum)		270.0 (Minimum)	343.7 (Nominal)	390.0 (Maximum)
Phase	Near 2 tube 1 Air Point Measure	CPS	Value	Phase	Near 2 tube 1 Rod Point Measure	CPS	Value	Phase	Near 2 tube 1 H2O Point Measure	CPS	Value
Master			474.0	Master			746.7	Master			342.4
	400.0 (Minimum)	487.5 (Nominal)	540.0 (Maximum)		610.0 (Minimum)	768.8 (Nominal)	850.0 (Maximum)		270.0 (Minimum)	343.7 (Nominal)	390.0 (Maximum)

Master: 19-Jun-2005 14:46		
6.75-in. Azimuthal Density Neutron Calibration		
Neutron: Water Block Check		
Phase	Far Neutron water porosity PU	Value
Master		94.31
	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	147
Calibration Status	Valid	

Master: 29-Jul-2005 17:20								
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		1.012	Master		1.011	Master		1.002

Master			1.012	Master			1.011	Master			1.002
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			1.002	Master			0.9986	Master			0.9982
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			1.009	Master			1.009	Master			1.002
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			1.001	Master			1.001	Master			0.9999
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: 29-Jul-2005 17:20											
6.75-in. Resistivity At-the-Bit Calibration											
Gamma Ray: Blanket											
Phase	Gamma ray factor ----										Value
Master											0.9611
	0.7500 (Minimum)		1.000 (Nominal)						1.250 (Maximum)		

SCHLUMBERGER

Survey report

9-Aug-2005 16:39:27

Page 1 of 5

Client..... ESSO Australia Pty. Ltd.
Field..... Bream B
Well..... BMB-B16
API number.....
Engineer..... J.Dolan, M.Y.Tan, D.Hastie
RIG..... ENSCO 102
STATE..... Victoria

Spud date..... 05-Jul-2005
Last survey date..... 09-Aug-05
Total accepted surveys... 92
MD of first survey..... 0.00 m
MD of last survey..... 2641.00 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..... -61.00 m
KB above permanent..... Top Drive
DF above permanent..... 47.17 m

----- Vertical section origin-----
Latitude (+N/S-)..... -7.80 m
Departure (+E/W-)..... -0.30 m

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

Azimuth from Vsect Origin to target: 119.19 degrees

----- Geomagnetic data -----
Magnetic model..... BGGM version 2005
Magnetic date..... 29-Jul-2005
Magnetic field strength... 1203.00 HCNT
Magnetic dec (+E/W-)..... 13.10 degrees
Magnetic dip..... -69.05 degrees

----- MWD survey Reference Criteria -----
Reference G..... 1000.05 mGal
Reference H..... 1203.00 HCNT
Reference Dip..... -69.05 degrees
Tolerance of G..... (+/-) 2.50 mGal
Tolerance of H..... (+/-) 6.00 HCNT
Tolerance of Dip..... (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-)..... 13.10 degrees
Grid convergence (+E/W-).. -0.52 degrees
Total az corr (+E/W-)..... 13.62 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

[(c)2005 IDEAL ID10_2C_01]
SCHLUMBERGER Survey Report

9-Aug-2005 16:39:27

Page 2 of 5

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/100f)	Srvy tool type	Tool Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	-7.80	-0.30	7.81	182.20	0.00	TIP	None
2	107.50	0.00	0.00	107.50	107.50	0.00	-7.80	-0.30	7.81	182.20	0.00	GYR	None
3	110.30	0.15	158.53	2.80	110.30	0.00	-7.80	-0.30	7.81	182.19	1.63	GYR	None

4	138.80	0.18	157.67	28.50	138.80	0.07	-7.88	-0.27	7.88	181.95	0.03	GYR	None
5	157.60	0.16	154.47	18.80	157.60	0.11	-7.93	-0.25	7.93	181.77	0.04	GYR	None
6	174.50	0.11	156.53	16.90	174.50	0.14	-7.97	-0.23	7.97	181.65	0.09	GYR	None
7	183.49	0.57	272.31	8.99	183.49	0.11	-7.97	-0.27	7.98	181.94	2.12	GYR	None
8	214.10	2.13	263.97	30.61	214.09	-0.49	-8.03	-0.99	8.09	187.02	1.56	GYR	None
9	244.30	4.13	267.49	30.20	244.24	-1.87	-8.13	-2.63	8.55	197.94	2.03	GYR	None
10	273.44	6.20	258.68	29.14	273.26	-3.96	-8.49	-5.22	9.97	211.61	2.31	GYR	None
11	302.32	6.79	248.99	28.88	301.96	-6.24	-9.41	-8.35	12.58	221.59	1.31	GYR	None
12	320.98	6.50	238.20	18.66	320.49	-7.46	-10.36	-10.27	14.59	224.77	2.09	MWD	None
13	360.36	6.56	225.35	39.38	359.62	-9.17	-13.11	-13.77	19.02	226.40	1.13	GYR	None
14	389.61	6.38	219.35	29.25	388.69	-9.92	-15.54	-15.99	22.30	225.81	0.73	GYR	None
15	418.79	6.26	225.03	29.18	417.69	-10.64	-17.92	-18.14	25.50	225.35	0.66	GYR	None
16	447.48	6.24	222.63	28.69	446.21	-11.43	-20.18	-20.30	28.62	225.18	0.28	GYR	None
17	476.58	6.16	224.05	29.10	475.14	-12.20	-22.46	-22.46	31.77	225.00	0.18	GYR	None
18	505.66	6.06	219.91	29.08	504.05	-12.88	-24.76	-24.53	34.85	224.73	0.47	GYR	None
19	534.65	6.06	217.45	28.99	532.88	-13.39	-27.15	-26.44	37.90	224.25	0.27	GYR	None
20	563.70	6.02	217.76	29.05	561.77	-13.83	-29.57	-28.31	40.94	223.75	0.05	GYR	None
21	592.73	5.72	226.27	29.03	590.65	-14.49	-31.77	-30.29	43.90	223.63	0.97	GYR	None
22	621.85	5.72	231.95	29.12	619.62	-15.47	-33.67	-32.48	46.78	223.97	0.59	GYR	None
23	650.71	5.56	228.28	28.86	648.34	-16.49	-35.49	-34.65	49.60	224.32	0.42	GYR	None
24	680.04	5.51	231.33	29.33	677.54	-17.48	-37.31	-36.81	52.41	224.61	0.31	GYR	None
25	697.53	5.50	228.98	17.49	694.95	-18.08	-38.39	-38.10	54.08	224.78	0.39	MWD	None
26	726.22	5.50	228.97	28.69	723.50	-19.01	-40.19	-40.17	56.82	224.99	0.00	MWD	None
27	755.02	5.47	224.63	28.80	752.17	-19.84	-42.07	-42.18	59.57	225.07	0.44	MWD	None
28	784.05	5.45	220.42	29.03	781.07	-20.48	-44.11	-44.04	62.33	224.96	0.42	MWD	None
29	812.94	5.55	224.13	28.89	809.83	-21.11	-46.15	-45.91	65.10	224.85	0.39	MWD	None
30	856.11	5.52	225.75	43.17	852.80	-22.24	-49.10	-48.85	69.26	224.85	0.11	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/100f)	Srvy tool type	Tool Corr (deg)
31	885.50	5.60	224.98	29.39	882.05	-23.03	-51.10	-50.87	72.11	224.87	0.11	MWD	None
32	914.67	5.60	223.80	29.17	911.08	-23.78	-53.14	-52.86	74.95	224.85	0.12	MWD	None
33	943.84	5.47	223.94	29.17	940.11	-24.49	-55.16	-54.81	77.77	224.82	0.14	MWD	None
34	972.77	5.37	223.05	28.93	968.91	-25.17	-57.15	-56.69	80.50	224.77	0.14	MWD	None
35	1001.99	5.46	223.36	29.22	998.00	-25.83	-59.16	-58.58	83.26	224.72	0.10	MWD	None
36	1030.57	5.41	224.95	28.58	1026.46	-26.53	-61.10	-60.47	85.96	224.70	0.17	MWD	None
37	1059.72	5.32	225.10	29.15	1055.48	-27.28	-63.03	-62.40	88.69	224.71	0.10	MWD	None
38	1088.71	5.11	226.63	28.99	1084.35	-28.03	-64.86	-64.29	91.32	224.75	0.26	MWD	None
39	1117.66	5.03	225.28	28.95	1113.18	-28.77	-66.64	-66.13	93.88	224.78	0.15	MWD	None
40	1146.60	5.09	226.31	28.94	1142.01	-29.50	-68.42	-67.96	96.43	224.81	0.11	MWD	None
41	1175.41	5.01	225.26	28.81	1170.71	-30.22	-70.19	-69.77	98.97	224.83	0.13	MWD	None
42	1204.65	4.90	227.98	29.24	1199.84	-30.98	-71.92	-71.61	101.49	224.87	0.27	MWD	None
43	1233.79	4.85	227.90	29.14	1228.87	-31.78	-73.58	-73.45	103.96	224.95	0.05	MWD	None
44	1262.27	5.07	228.33	28.48	1257.25	-32.57	-75.22	-75.28	106.42	225.02	0.24	MWD	None
45	1291.51	5.31	229.22	29.24	1286.37	-33.46	-76.97	-77.27	109.06	225.11	0.26	MWD	None
46	1320.64	5.99	219.17	29.13	1315.36	-34.19	-79.03	-79.25	111.92	225.08	1.25	MWD	None
47	1349.52	7.66	193.37	28.88	1344.04	-33.92	-82.07	-80.65	115.06	224.50	3.64	MWD	None
48	1378.46	10.94	165.80	28.94	1372.61	-31.51	-86.61	-80.42	118.19	222.88	5.73	MWD	None
49	1407.52	13.12	139.65	29.06	1401.05	-26.52	-91.80	-77.61	120.21	220.21	6.09	MWD	None
50	1436.56	14.26	126.97	29.04	1429.27	-19.89	-96.46	-72.61	120.74	216.97	3.36	MWD	None
51	1465.33	14.22	127.37	28.77	1457.16	-12.88	-100.74	-66.97	120.97	213.62	0.11	MWD	None
52	1494.32	13.91	123.06	28.99	1485.28	-5.88	-104.80	-61.22	121.37	210.29	1.15	MWD	None
53	1523.35	13.91	114.26	29.03	1513.46	1.08	-108.14	-55.12	121.38	207.01	2.22	MWD	None
54	1552.33	13.77	107.16	28.98	1541.60	7.93	-110.59	-48.64	120.82	203.74	1.79	MWD	None
55	1581.19	13.47	106.93	28.86	1569.65	14.57	-112.58	-42.15	120.21	200.52	0.32	MWD	None
56	1610.23	13.22	106.90	29.04	1597.90	21.12	-114.53	-35.73	119.98	197.33	0.26	MWD	None
57	1639.24	12.97	106.76	29.01	1626.16	27.54	-116.43	-29.44	120.10	194.19	0.26	MWD	None
58	1668.40	14.75	106.71	29.16	1654.47	34.36	-118.45	-22.75	120.61	190.87	1.86	MWD	None
59	1697.46	18.56	110.49	29.06	1682.31	42.55	-121.13	-14.88	122.04	187.00	4.15	MWD	None
60	1726.01	22.22	113.20	28.55	1709.06	52.41	-124.85	-5.65	124.98	182.59	4.03	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/100f)	Srvy tool type	Tool Corr (deg)
61	1755.12	25.46	114.56	29.11	1735.69	64.12	-129.62	5.10	129.72	177.75	3.44	MWD	None
62	1784.08	28.71	115.07	28.86	1761.47	77.27	-135.15	17.06	136.23	172.80	3.43	MWD	None
63	1813.12	32.21	113.25	29.04	1786.50	91.93	-141.17	30.50	144.42	167.81	3.80	MWD	None
64	1842.22	35.30	112.90	29.10	1810.69	108.01	-147.50	45.37	154.32	162.90	3.24	MWD	None
65	1871.31	38.11	113.30	29.09	1834.01	125.29	-154.32	61.36	166.08	158.32	2.95	MWD	None
66	1899.95	41.20	113.37	28.64	1856.05	143.47	-161.56	78.14	179.47	154.19	3.29	MWD	None
67	1929.05	45.21	113.03	29.10	1877.26	163.28	-169.41	96.45	194.94	150.35	4.21	MWD	None
68	1958.45	49.07	111.54	29.40	1897.26	184.67	-177.57	116.39	212.32	146.76	4.16	MWD	None

69	1987.31	52.44	109.37	28.86	1915.51	206.75	-185.37	137.33	230.70	143.47	3.98	MWD	None
70	2016.22	56.23	108.21	28.91	1932.37	229.85	-192.93	159.56	250.36	140.41	4.12	MWD	None
71	2044.75	58.13	107.85	28.53	1947.83	253.37	-200.35	182.36	270.91	137.69	2.06	MWD	None
72	2073.75	56.68	107.89	29.00	1963.45	277.33	-207.84	205.61	292.36	135.31	1.52	MWD	None
73	2102.65	56.17	107.47	28.90	1979.43	300.92	-215.16	228.55	313.89	133.27	0.65	MWD	None
74	2131.41	55.69	106.87	28.76	1995.54	324.22	-222.19	251.32	335.45	131.48	0.73	MWD	None
75	2160.35	55.85	106.48	28.94	2011.82	347.58	-229.06	274.24	357.31	129.87	0.38	MWD	None
76	2189.30	54.86	106.25	28.95	2028.28	370.80	-235.77	297.09	379.27	128.44	1.06	MWD	None
77	2218.83	53.99	105.47	29.53	2045.46	394.17	-242.33	320.19	401.56	127.12	1.11	MWD	None
78	2247.97	53.59	105.31	29.14	2062.68	417.01	-248.57	342.86	423.49	125.94	0.44	MWD	None
79	2277.03	54.85	105.22	29.06	2079.67	439.89	-254.78	365.60	445.62	124.87	1.32	MWD	None
80	2306.49	53.74	104.80	29.46	2096.86	463.08	-260.97	388.71	468.19	123.88	1.20	MWD	None
81	2335.48	53.21	104.61	28.99	2114.11	485.64	-266.89	411.24	490.25	122.98	0.58	MWD	None
82	2364.40	53.21	104.10	28.92	2131.43	508.03	-272.63	433.68	512.25	122.16	0.43	MWD	None
83	2393.21	51.92	103.86	28.81	2148.94	530.10	-278.16	455.88	534.04	121.39	1.38	MWD	None
84	2422.27	52.23	104.37	29.06	2166.81	552.23	-283.75	478.11	555.97	120.69	0.53	MWD	None
85	2451.33	52.61	104.69	29.06	2184.53	574.52	-289.53	500.40	578.12	120.05	0.48	MWD	None
86	2480.33	52.86	105.28	29.00	2202.09	596.89	-295.49	522.70	600.44	119.48	0.56	MWD	None
87	2509.25	51.86	105.68	28.92	2219.75	619.14	-301.60	544.77	622.68	118.97	1.11	MWD	None
88	2538.42	52.71	106.56	29.17	2237.59	641.61	-308.01	566.93	645.20	118.52	1.15	MWD	None
89	2567.49	53.16	106.46	29.07	2255.11	664.24	-314.60	589.17	667.91	118.10	0.48	MWD	None
90	2596.48	52.44	107.42	28.99	2272.64	686.81	-321.33	611.26	690.58	117.73	1.10	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/ 100f)	Srvy tool type	Tool Corr (deg)
91	2623.96	51.70	107.50	27.48	2289.53	708.03	-327.83	631.94	711.91	117.42	0.82	MWD	None
92	2641.00	51.70	107.50	17.04	2300.10	721.13	-331.86	644.69	725.09	117.24	0.00	Projection to TD	

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Company:

ESSO Australia Pty. Ltd.

Well:

BMB-B16

Field:

Bream B

Rig:

ENSCO 102

State:

Victoria

8.5 in. Section

GeoVISION Quadrant Resistivity

1:200 Measured Depth

Recorded Mode Log

Schlumberger

