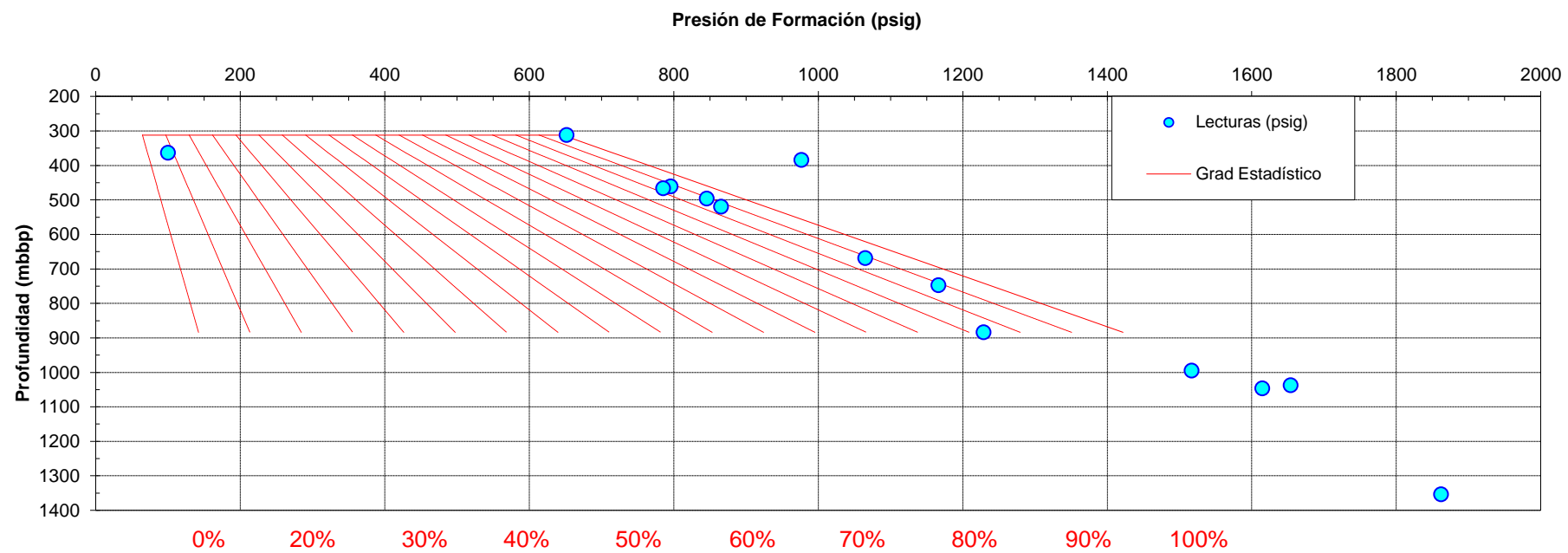
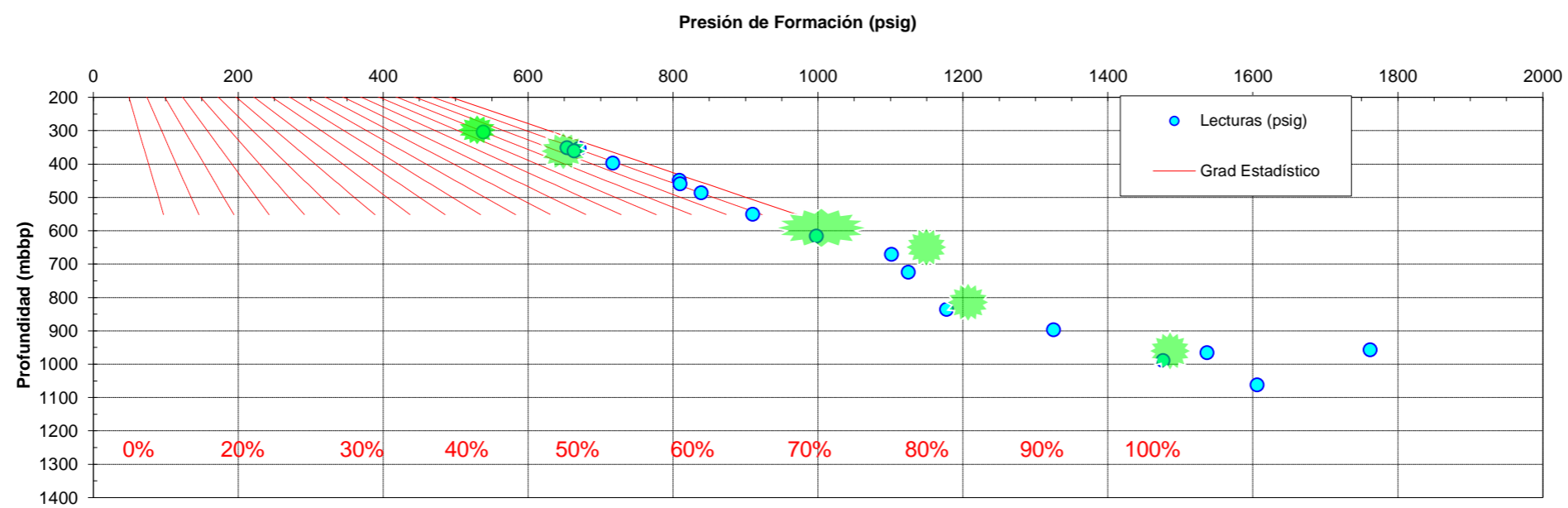


# RFT EA-685 (13- 11 -2005)

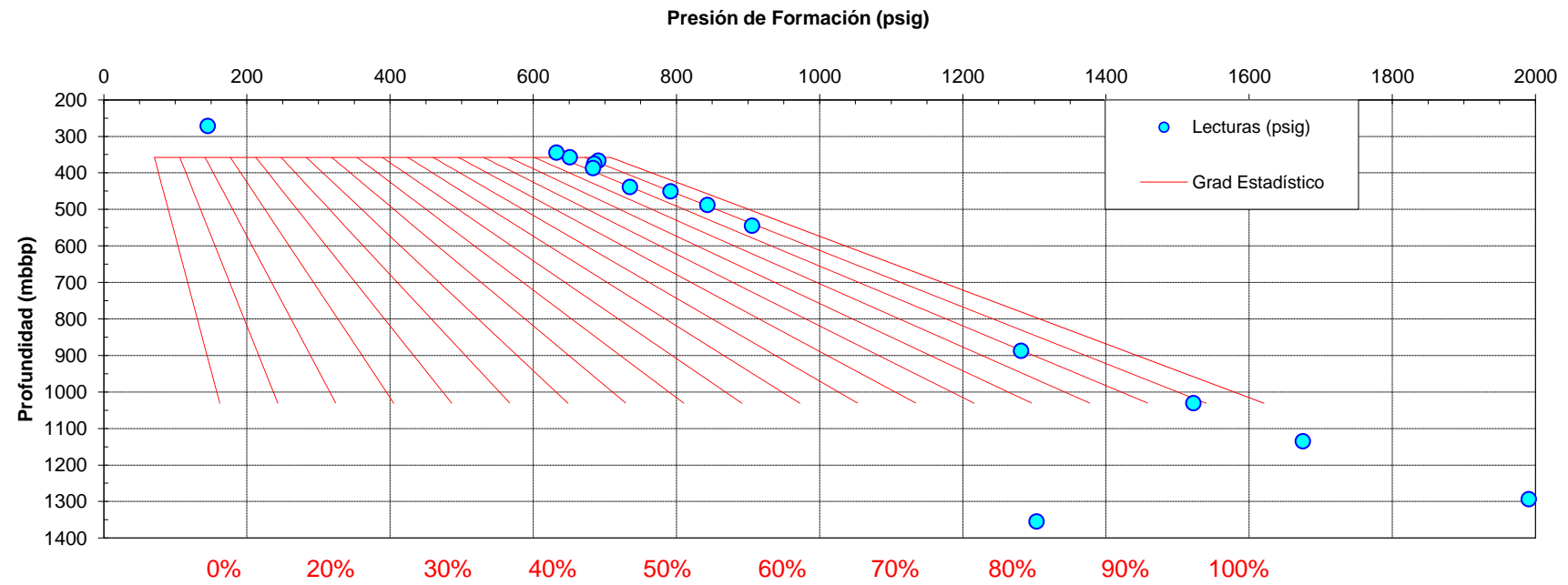


### RFT EA-690 (12- 04 -2006)



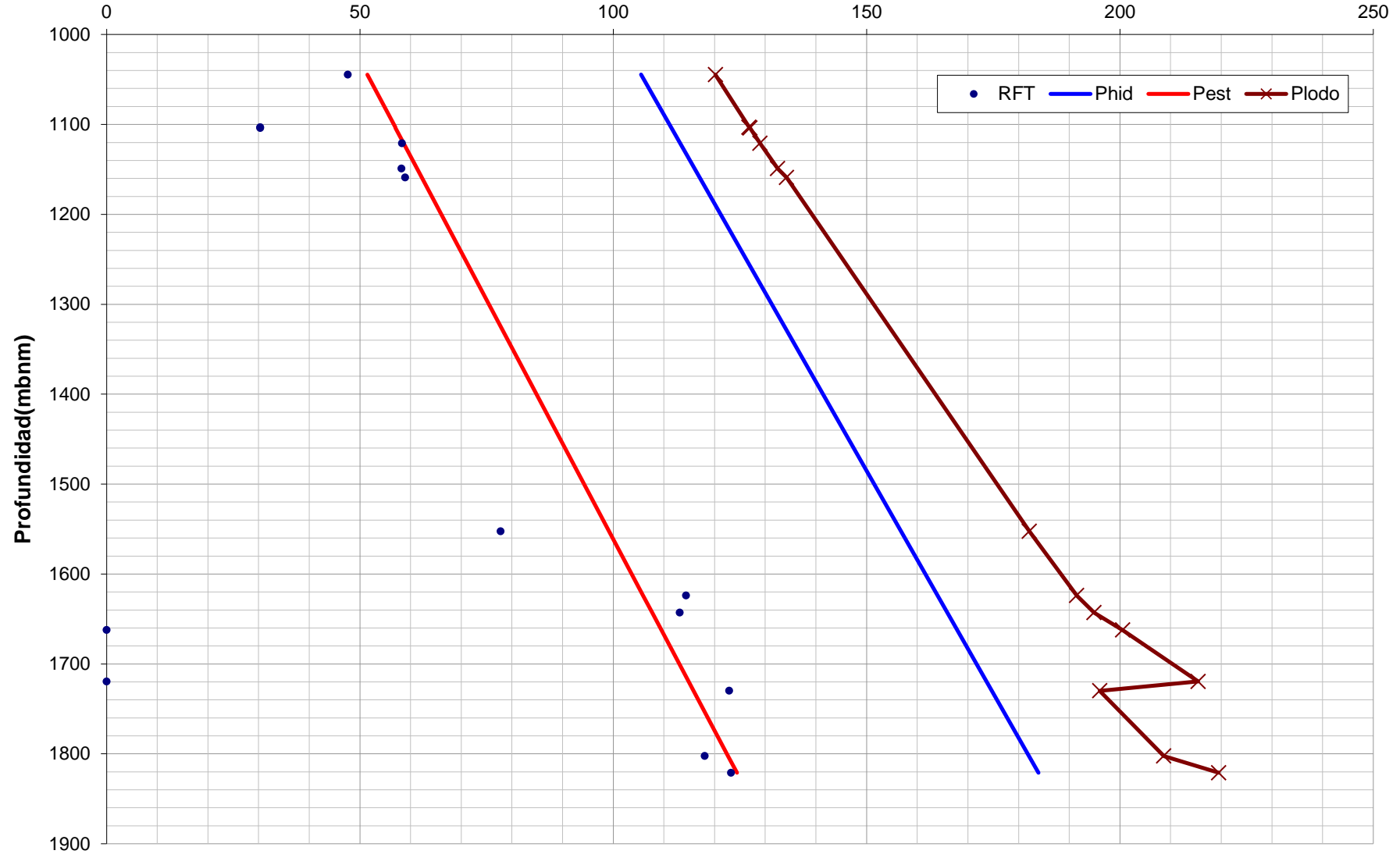
● Capas de agu

# RFT EA- 669 (14- 03 -2005)

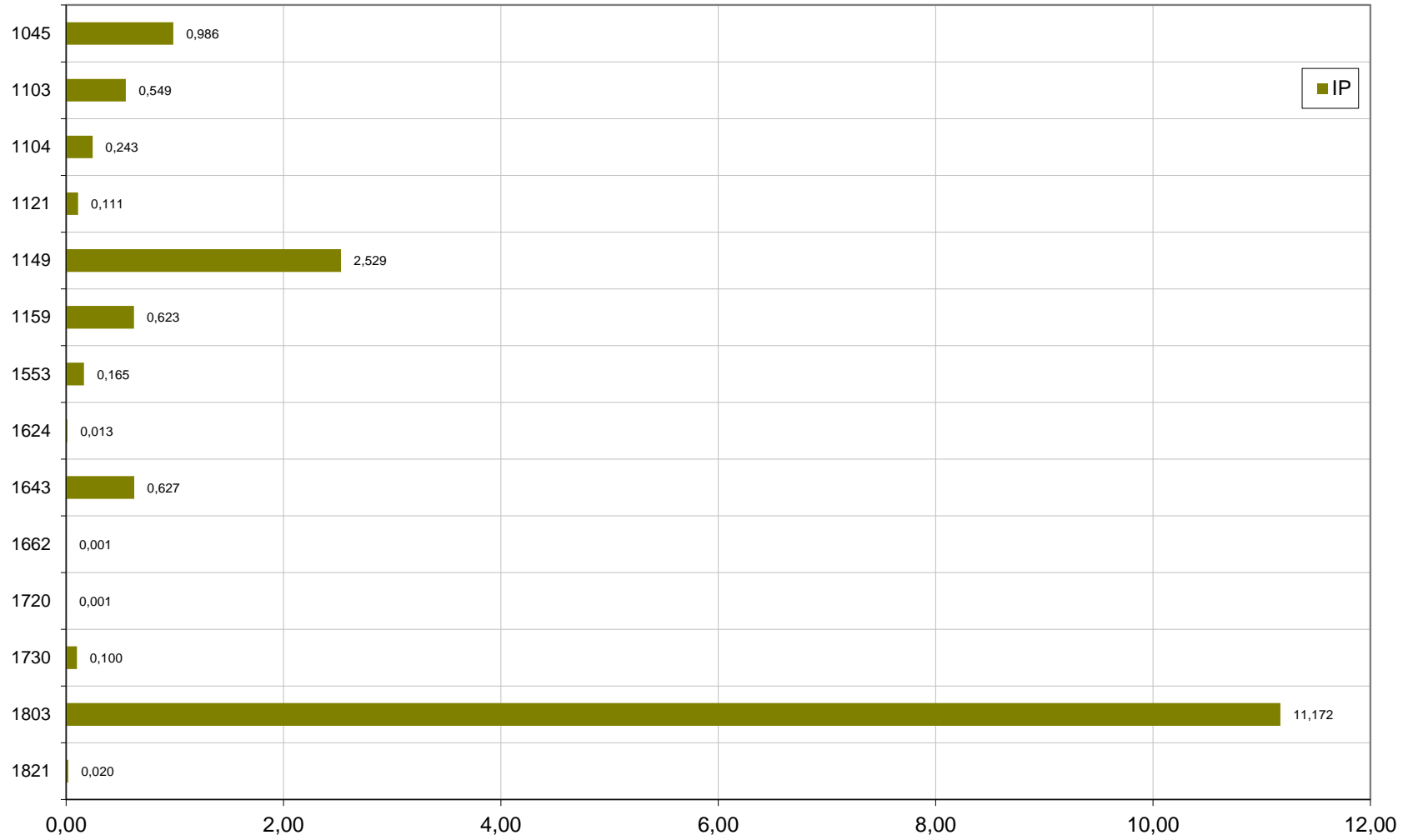


# Presión medida pozo vs Pi Ech y vs Phids

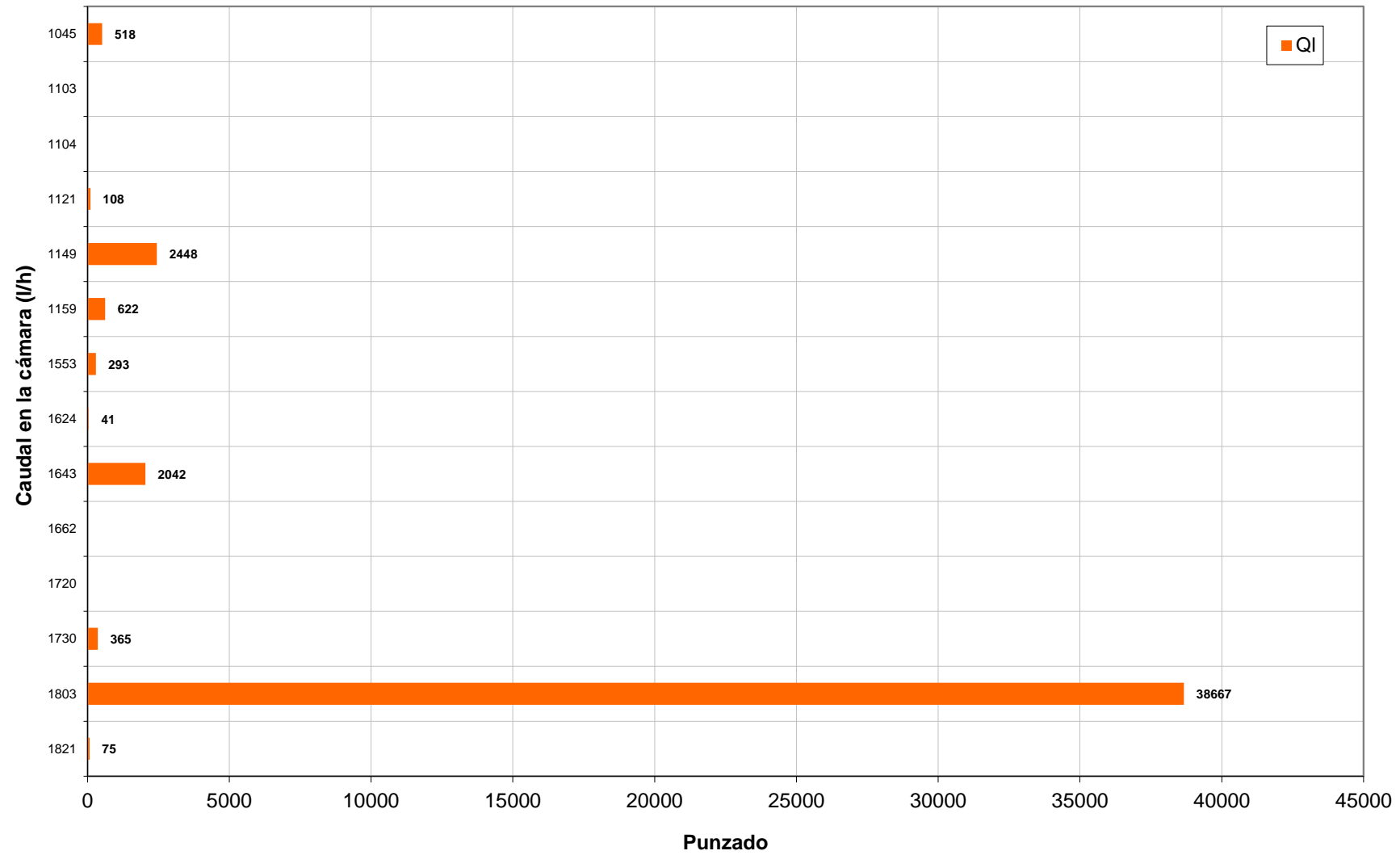
PRESIÓN (Kg/cm<sup>2</sup>)



IP (m3/d / Kg/cm2)



CAUDAL (l/h) Flujo desde capa por cámara del FMT @ pwf 35 Kg/cm2 en flujo transiente del RFT



CAPA Nº	TOPE	BASE	ESP. PERM. (h)	DATOS REGISTRO OPEN HOLE				RESULTADOS ENSAYO			
				PORZC MAX.	PORZCxH	PORA MAX.	PE MAX.	SE	FLUIDO		
								AF	PF	G	
1	936.00	944.50	8.00	27.74	193.44	41.02	2.49				
2	949.50	951.50	1.21	22.50	19.36	31.35	2.31				
3	961.50	964.00	0.90	24.25	13.24	38.40	2.32				
4	970.00	973.00	2.42	29.20	105.50	40.18	2.71				
5	973.50	976.00	2.06	26.48	46.41	38.67	3.05				
6	989.00	996.00	5.00	21.51	68.29	34.99	2.54				
7	1008.50	1017.50	8.53	31.72	226.21	42.72	2.82				
8	1031.50	1036.00	3.58	23.76	43.73	36.61	2.84				
9	1042.50	1048.00	5.32	33.95	163.99	40.58	2.70				
10	1052.00	1055.50	3.00	28.00	104.00	40.00	2.70				
11	1057.50	1063.50	5.33	30.30	344.60	36.46	2.86				
12	1073.00	1075.50	2.36	22.06	46.35	35.69	2.39				
13	1077.50	1080.50	2.44	27.99	53.83	33.98	2.47				
14	1101.00	1106.50	4.80	29.75	114.98	36.93	2.47				
15	1112.00	1113.50	0.91	19.29	16.53	35.01	2.95				
16	1117.50	1123.50	5.41	25.68	111.67	36.04	2.84				
17	1143.00	1146.50	3.12	27.85	72.79	34.27	2.81				
18	1147.00	1151.50	4.04	30.58	109.15	36.53	2.57				
19	1155.00	1161.50	6.17	30.67	164.26	38.02	2.64				
20	1167.00	1170.00	2.74	26.33	66.94	35.72	2.20				
21	1170.50	1172.50	1.83	27.00	42.82	34.71	2.46				
22	1182.50	1194.50	11.66	30.09	311.72	36.51	2.67				
23	1200.50	1202.50	1.90	31.99	56.84	36.44	2.09				
24	1205.00	1209.00	3.28	27.90	82.79	34.54	2.54				
25	1213.50	1217.50	2.82	30.07	79.59	35.24	2.50				

#### DATOS REGISTRO OPEN HOLE

PORZ Porosidad de Densidad  
 PORZXH Porosidad de Densidad integrada por espesor permeable  
 PORA Porosidad Acustico  
 PE Factor Foteolectrico  
 R291 Ratio

#### FLUIDO PROBABLE

X Fluido mayoritario PF Petróleo de Formación  
 c/RP Con Rastros de Petróleo AF Agua de Formación  
 G Gas

CAPA Nº	TOPE	BASE	ESP. PERM. (h)	DATOS REGISTRO OPEN HOLE				RESULTADOS ENSAYO			
				PORZC MAX.	PORZCxH	PORA MAX.	PE MAX.	SE	FLUIDO		
									AF	PF	G
26	1223.50	1226.00	1.90	27.99	50.92	35.02	2.21		X		
27	1232.50	1236.00	2.82	29.49	77.77	35.62	2.74		X		
28	1237.50	1242.00	3.13	26.41	50.13	35.63	2.61				
29	1262.50	1265.00	1.90	22.38	35.70	30.51	2.65				
30	1268.00	1279.00	10.74	26.88	248.30	39.48	2.55				
31	1280.50	1284.00	3.12	23.77	61.87	34.08	2.67				
32	1292.00	1300.50	7.85	24.04	170.46	33.92	2.84				
33	1310.00	1313.50	2.59	18.18	44.02	33.81	2.78				
34	1323.50	1328.00	4.04	25.17	95.63	35.28	2.65				
35	1333.50	1337.00	3.28	26.46	77.83	34.88	2.65				
36	1337.00	1346.00	8.53	31.37	235.64	38.11	2.34				
37	1348.00	1353.00	3.35	28.60	86.16	38.06	2.56				
38	1363.50	1386.50	22.48	29.50	559.64	35.33	3.16				
39	1390.50	1405.00	14.10	29.99	365.10	34.51	2.54				
40	1405.50	1408.00	2.21	26.96	51.45	32.94	2.74				
41	1412.00	1413.50	0.91	25.30	21.05	34.90	2.95				
42	1415.00	1419.50	3.73	30.52	90.45	36.22	2.46				
43	1423.00	1426.50	2.90	30.87	78.39	36.93	2.44				
44	1434.00	1441.50	7.16	30.43	198.80	42.55	2.37				
45	1452.00	1462.00	9.14	28.54	220.61	34.27	2.44				
46	1466.50	1474.00	7.16	28.41	160.05	32.30	2.57				
47	1481.00	1484.00	2.90	29.10	73.82	33.88	2.49				
48	1485.50	1492.00	5.79	28.96	146.84	32.70	2.78				
49	1492.50	1495.50	2.67	28.56	62.91	32.50	2.49				
50	1502.00	1504.00	1.30	26.25	29.01	34.01	2.39				

#### DATOS REGISTRO OPEN HOLE

PORZ Porosidad de Densidad  
 PORZxH Porosidad de Densidad integrada por espesor permeable  
 PORA Porosidad Acustico  
 PE Factor Foelectrico  
 R291 Ratio

#### FLUIDO PROBABLE

X Fluido mayoritario PF Petr6leo de Formaci6n  
 c/RP Con Rastros de Petr6leo AF Agua de Formaci6n  
 G Gas



CAPA Nº	TOPE	BASE	ESP. PERM. (h)	DATOS REGISTRO OPEN HOLE				RESULTADOS ENSAYO		
				PORZC MAX.	PORZCxH	PORA MAX.	PE MAX.	SE	FLUIDO	
							AF		PF	G
51	1508.00	1515.50	7.01	28.27	168.46	32.90	2.68			
52	1515.50	1521.00	5.18	26.98	118.93	33.07	2.84			
53	1525.50	1532.50	6.48	23.75	138.10	31.19	2.67			
54	1548.50	1555.00	5.72	25.50	134.76	30.55	2.36			
55	1579.50	1585.00	5.11	24.24	109.07	29.71	2.53			
56	1620.50	1625.50	4.50	23.05	93.97	31.76	2.36			
57	1633.50	1636.00	2.36	19.19	41.37	33.28	2.74			
58	1640.50	1644.00	2.74	27.67	58.43	29.59	2.46			
59	1661.00	1663.50	2.06	21.25	40.31	26.86	2.74			
60	1663.50	1669.00	5.39	19.01	126.39	36.56	3.08			
61	1676.50	1678.50	1.52	17.74	25.61	23.29	2.30			
62	1678.50	1683.50	4.50	18.96	79.22	22.95	2.46			
63	1693.00	1700.00	6.10	25.75	127.63	28.84	2.68			
64	1718.50	1720.50	1.60	21.90	25.05	25.69	2.45			
65	1727.50	1731.50	3.20	26.16	66.71	33.42	2.65			
66	1801.50	1805.50	3.89	27.94	103.02	33.02	2.72			
67	1814.00	1816.00	1.45	28.75	40.05	29.61	2.48			
68	1816.00	1818.50	2.13	29.37	55.42	30.94	2.64			
69	1818.50	1822.00	2.90	27.27	67.86	28.33	2.99			

**DATOS REGISTRO OPEN HOLE**

PORZ Porosidad de Densidad  
PORZXH Porosidad de Densidad integrada por espesor permeable  
PORA Porosidad Acustico  
PE Factor Fotoelectrico  
R291 Ratio

**FLUIDO PROBABLE**

X Fluido mayoritario PF Petróleo de Formación  
c/RP Con Rastros de Petróleo AF Agua de Formación  
G Gas

CAPA N°	TOPE	BASE	ESP. PERM. (h)	DATOS REGISTRO OPEN HOLE				RESULTADOS ENSAYO			
				PORZC MAX.	PORZCxH	PORA MAX.	PE MAX.	SE	FLUIDO		
									AF	PF	G

**DATOS REGISTRO OPEN HOLE**

PORZ Porosidad de Densidad  
PORZXH Porosidad de Densidad integrada por espesor permeable  
PORA Porosidad Acustico  
PE Factor Fotelectrico  
R291 Ratio

**FLUIDO PROBABLE**

X Fluido mayoritario                          PF      Petróleo de Formación  
    AF      Agua de Formación  
c/RP Con Rastros de Petróleo              G      Gas

# PROGRAMA TENTATIVO DE TERMINACION

**POZO** EA809  
**FECHA** 24-Jun-14  
**YACIMIENTO** EL ALBA

TOPE (mbbp)	BASE (mbbp)	ESP PERM (mt)	PERM. FMT (mD)	PORZ x h (up . m)	DEPLEC	PORZ (up)	PUNTAJE CAPA	CATEGORIA	PORA (up)	Programa
1640,5	1644,0	2,7	12,5	58,4	0,7	27,7	80,0	1	29,6	x
1155,0	1161,5	6,2	12,5	164,3	0,5	30,7	75,0	1	38,0	no
1548,5	1555,0	5,7	3,3	134,8	0,5	25,5	70,0	2	30,6	x
1101,0	1106,5	4,8	11,0	115,0	0,3	29,8	70,0	2	36,9	x
1117,5	1123,5	5,4	2,3	111,7	0,5	25,7	70,0	2	36,0	x
1042,5	1048,0	5,3	19,8	164,0	0,5	34,0	65,0	2	40,6	no
1147,0	1151,5	4,0	50,4	109,2	0,5	30,6	65,0	2	36,5	no
										1661,0
										1729,0

34,2

857,2

## DATOS REGISTRO OPEN HOLE

PORZ Porosidad de Densidad  
 PORZXH Porosidad de Densidad integrada por espesor permeable  
 PORA Porosidad Acustico  
 PE Factor Fotoelectrico  
 R291 Ratio

## NOTAS

YPF

Company YPF SA  
 Well Name EA-809  
 Field EL ALBA  
 Country \_\_\_\_\_ State \_\_\_\_\_

Location X

Permanent Datum N. T. Elevation 668.80 Elevation: K.B. \_\_\_\_\_  
 Log Measured fro N. T. 0.00 Above Permanent Datum D.F. 674.30  
 Drill Measured From N. T. G.L. 668.80

Date		
Run ID	1	2
Depth - Driller	1850.0	
Depth - Logger	1852.3	
Btm Log Interval	1849.0	
Top Log Interval	356.5	
Casing Driller		
Casing - Logger		
Bit Size	8.75	
Type of Fluid in Hole	PHPA	
Mud Weight	1150	
Mud pH	9.0	
Source: Rm	ULTIMA CIRCULADA	
Rm	2.33	
Rmf	1.86	
Rmc	2.59	
Source: Rmf	MEDICION	
RM BHT	0.90	
Time End Circulation		
Time at Bottom		
Max Rec Temp	169.5	

### CLAY VOLUME PARAMETERS

Top	SP Clean	Res Clean	Neu XP Clay
Bottom	SP Clay	Res Clay	Den XP Clay
900.	-29.5	10.4	0.494
1000.	-2.	1.24	2.34
1000.	-40.5	8.04	0.448
1081.	-1.	1.16	2.34
1081.	-32.3	32.5	0.443
1165.	-3.	0.982	2.41
1165.	-24.7	5.51	0.428
1250.	-2.	0.982	2.31
1250.	-26.5	10.8	0.43
1305.	-3.	1.2	2.39
1305.	-19.8	5.27	0.467
1346.61	-2.	0.783	2.37
1346.61	-27.8	32.2	0.399
1410.	-2.	1.16	2.41
1410.	-29.2	8.7	0.43
1445.	-3.	1.16	2.32
1445.	-26.1	21.1	0.428
1542.	-1.	1.16	2.37
1542.	-32.4	28.3	0.424
1658.	-2.	1.12	2.37
1658.	-39.	98.5	0.357
1710.	-2.	3.43	2.4
1710.	-16.1	12.9	0.395
1785.	-2.	1.42	2.41

1785.	-25.7	17.4	0.39
1852.3	-2.	1.63	2.31

**POROSITY WATER SATURATION PARAMETERS**

Top Bottom	Phi Model Sw eq.	Rw Rw temp.	Rmf Rmf temp.	"m" "n"	"a" OBM ?	Rho HC Rho Mat	Rho Fluid Rho Clay	Son Clay Son Mat	Son Fluid Son HC	Son Eq.	Res Clay Rxo Clay
900.	Density	0.4	0.1	2.	0.81	0.925	Calc.	104.	189.	Wyllie	1.24
1000.	Mod Sim	Temp	25.	2.	No	2.65	2.34	55.5	220.		1.24
1000.	Density	0.4	0.1	2.	0.81	0.925	Calc.	100.	189.	Wyllie	1.16
1081.	Mod Sim	Temp	25.	2.	No	2.65	2.34	55.5	220.		1.16
1081.	Density	0.51	0.1	2.	0.81	0.9	Calc.	93.	189.	Wyllie	0.98
1165.	Mod Sim	Temp	25.	2.	No	2.62	2.41	55.5	220.		0.98
1165.	Density	0.51	0.1	2.	0.81	0.9	Calc.	100.	189.	Wyllie	0.98
1250.	Mod Sim	Temp	25.	2.	No	2.62	2.31	55.5	220.		0.98
1250.	Density	0.51	0.1	2.	0.81	0.9	Calc.	95.	189.	Wyllie	1.2
1305.	Mod Sim	Temp	25.	2.	No	2.62	2.39	55.5	220.		1.2
1305.	Density	0.51	0.1	2.	0.81	0.9	Calc.	98.	189.	Wyllie	0.78
1346.61	Mod Sim	Temp	25.	2.	No	2.62	2.37	55.5	220.		0.78
1346.61	Density	0.51	0.1	2.	0.81	0.9	Calc.	89.	189.	Wyllie	1.16
1410.	Mod Sim	Temp	25.	2.	No	2.62	2.41	55.5	220.		1.16
1410.	Density	0.51	0.1	2.	0.81	0.9	Calc.	97.	189.	Wyllie	1.16
1445.	Mod Sim	Temp	25.	2.	No	2.62	2.32	55.5	220.		1.16
1445.	Density	0.51	0.1	2.	0.81	0.9	Calc.	92.	189.	Wyllie	1.16
1542.	Mod Sim	Temp	25.	2.	No	2.62	2.37	55.5	220.		1.16
1542.	Density	0.32	0.1	2.1	1.	0.89	Calc.	90.	189.	Wyllie	1.12
1658.	Mod Sim	Temp	25.	2.	No	2.59	2.37	55.5	220.		1.12
1658.	Density	0.32	0.1	2.1	1.	0.89	Calc.	86.	189.	Wyllie	3.43
1710.	Mod Sim	Temp	25.	2.	No	2.59	2.4	55.5	220.		3.43
1710.	Density	0.253	0.1	2.1	1.	0.89	Calc.	91.	189.	Wyllie	1.42
1785.	Mod Sim	Temp	25.	2.	No	2.59	2.41	55.5	220.		1.42
1785.	Density	0.32	0.1	2.1	1.	0.89	Calc.	86.	189.	Wyllie	1.63
1852.3	Mod Sim	Temp	25.	2.	No	2.59	2.31	55.5	220.		1.63

Scale : 1 : 200

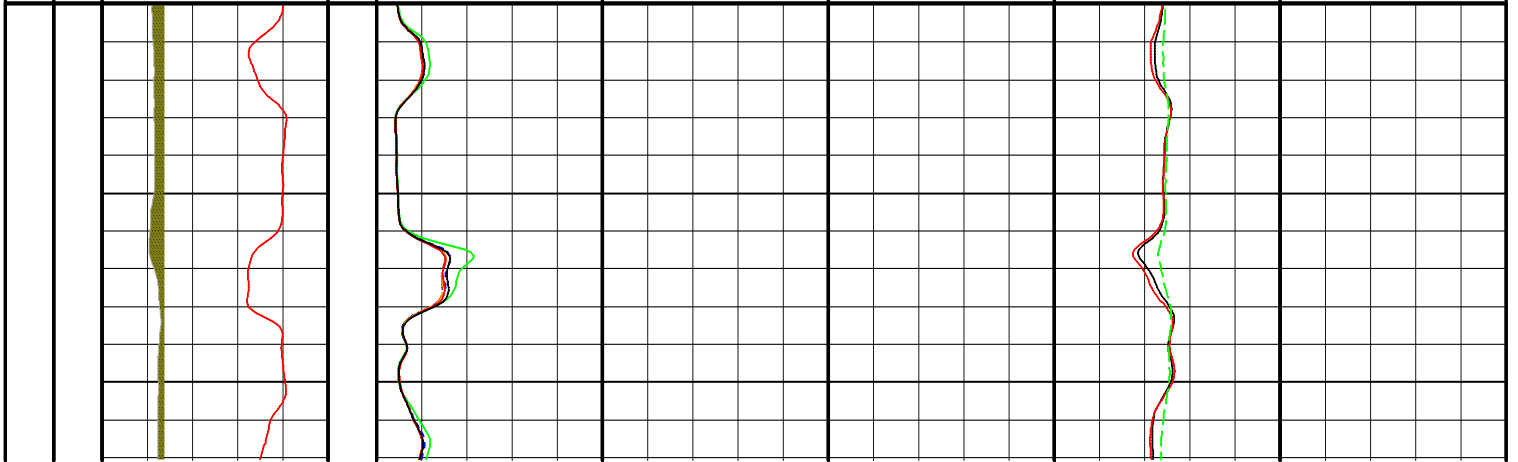
**EA-809**

DB : Petrofísica EL ALBA (12)

DEPTH (800.02M - 1852.27M)

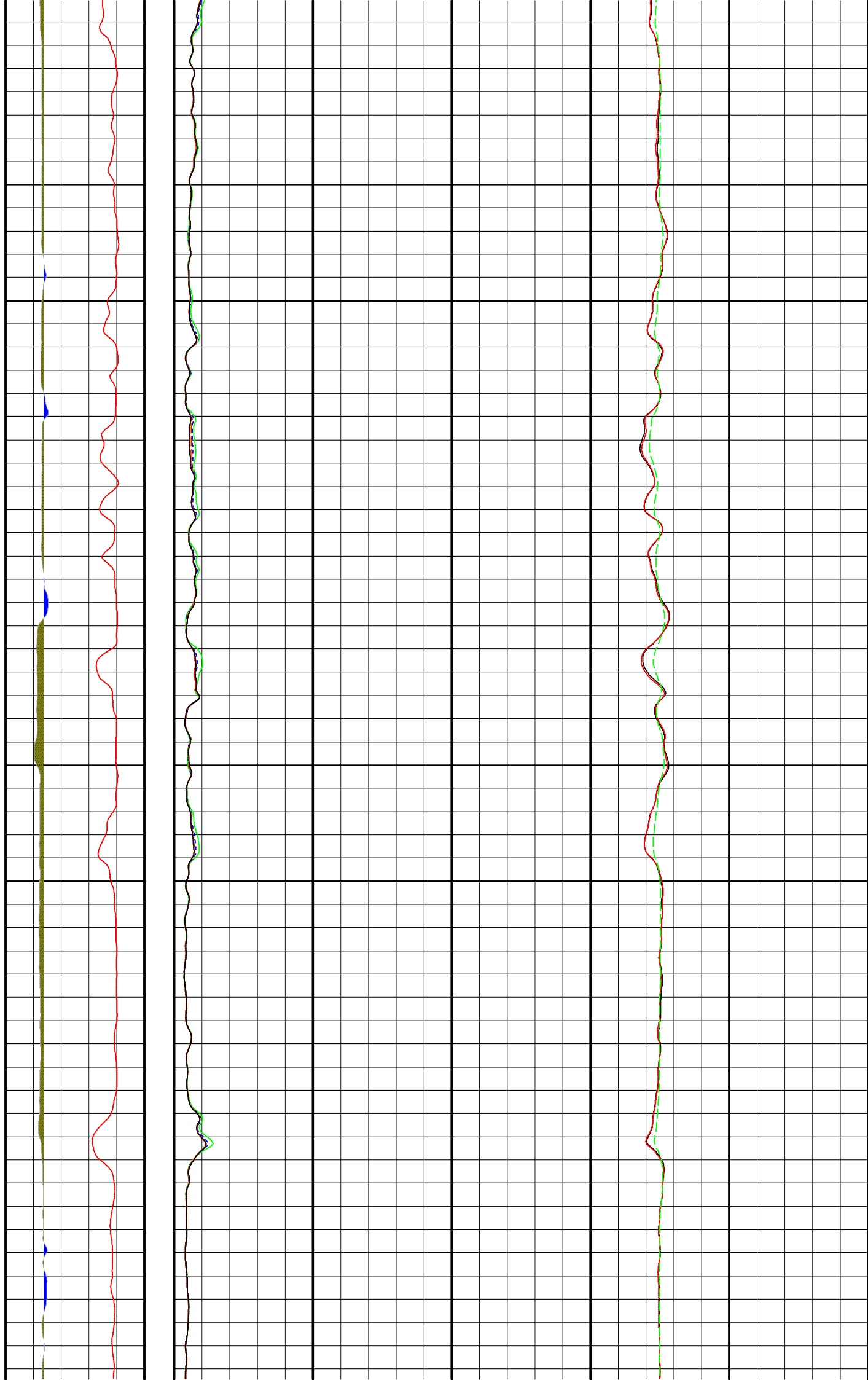
03/16/2010 14:14

DEPT	ZONA	SP-RWA-PE-CAL	Punz	Resistividad	Porosidad	Saturacion	Quik	Litología
DEPT (M) Complejos	Porosity / Sw	SP (MV) 80.-----20.		M2R1 (OHMM) 0.-----10.	PRZC (PU) 40.-----0.	SW (Dec) 1.-----0.	RWAC (OHMM) 0.-----1.	VWCL (Dec) 0.-----1.
		RWAC (OHMM) 0.-----1.		M2R2 (OHMM) 0.-----10.	CNCF (dec) 0.4-----0.	<b>SW &lt; 60 % (HC)</b>	R2X1 (.) 0.-----2.	PHIE (Dec) 1.-----0.
		CAL (IN) 6.-----16.		M2R3 (OHMM) 0.-----10.	PORA (PU) 40.-----0.	R291 (IN) 0.-----2.	VCOAL (Dec) 0.-----1.	
		PE (B/E) 0.-----5.		M2R6 (OHMM) 0.-----10.	PHIE (Dec) 0.4-----0.	R292 (IN) 0.-----2.	Arcilla - Toba	
		REVOQUE		M2R9 (OHMM) 0.-----10.	BVW (Dec) 0.4-----0.		Porosity	
		CAVERNA		M2RX (OHMM) 0.-----10.	<b>GAS</b>		SANDSTONE	
					<b>SE</b>			
					<b>Agua</b>			
					<b>Oil</b>			



825

850



875

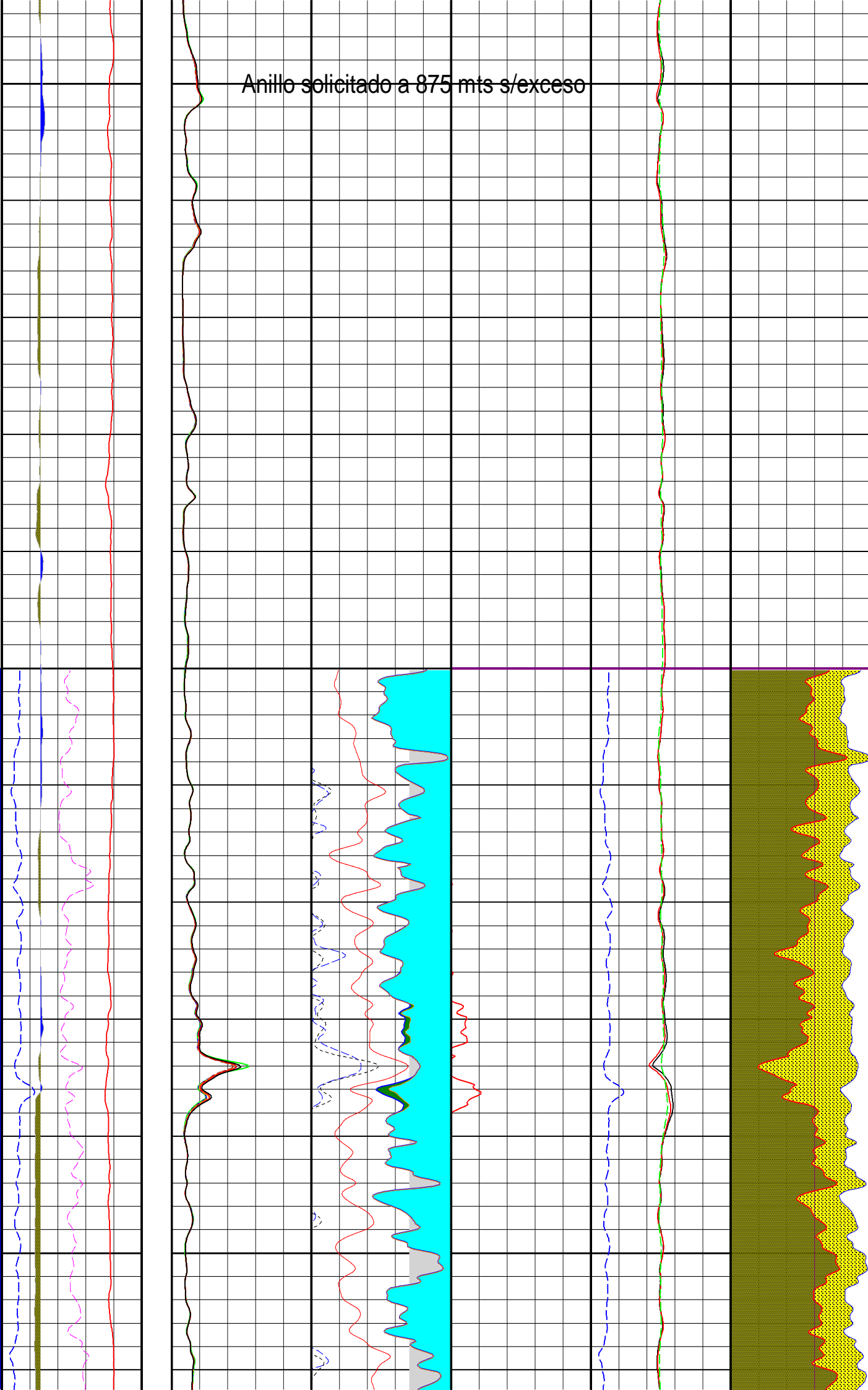
Anillo solicitado a 875 mts s/exceso

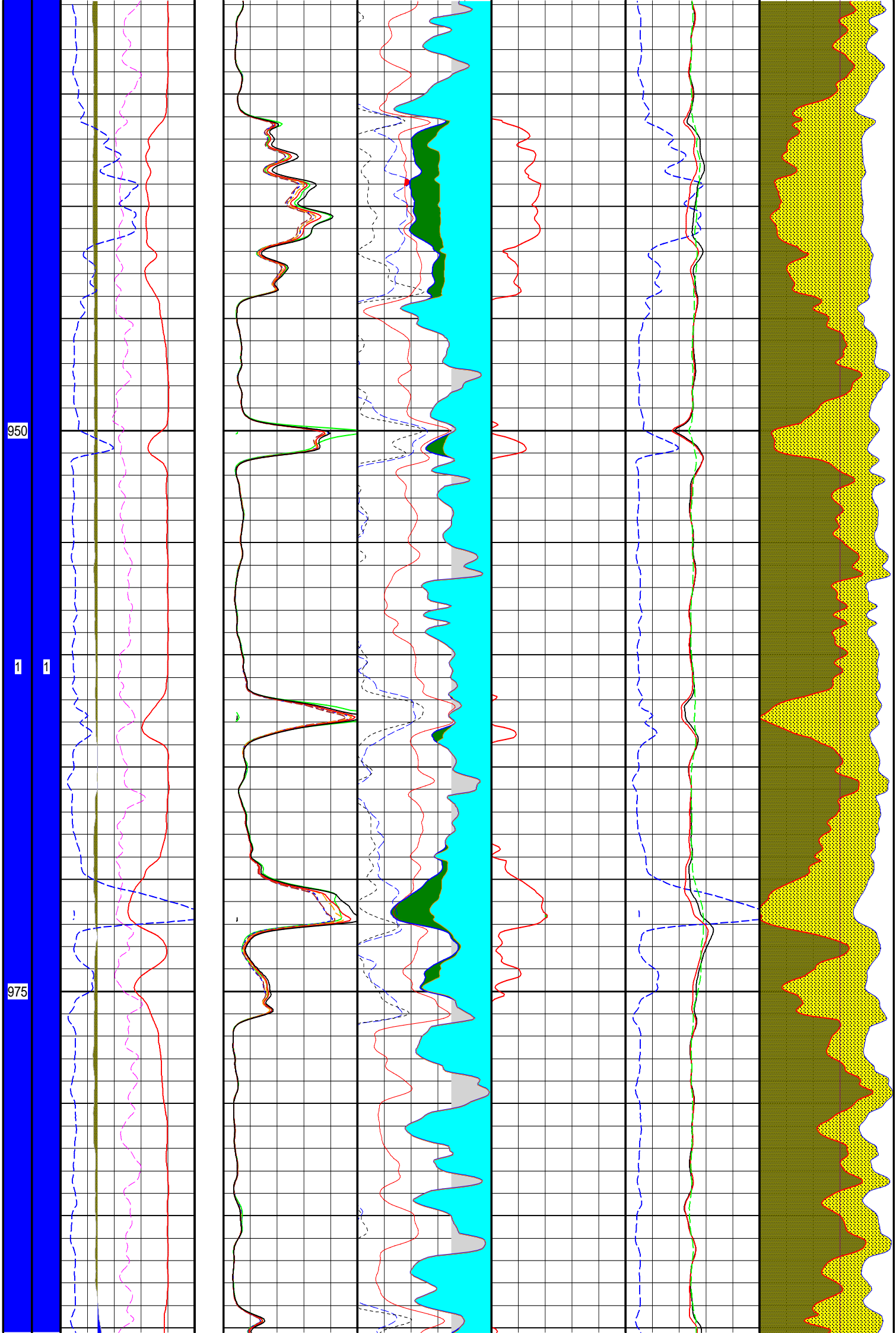
900

925

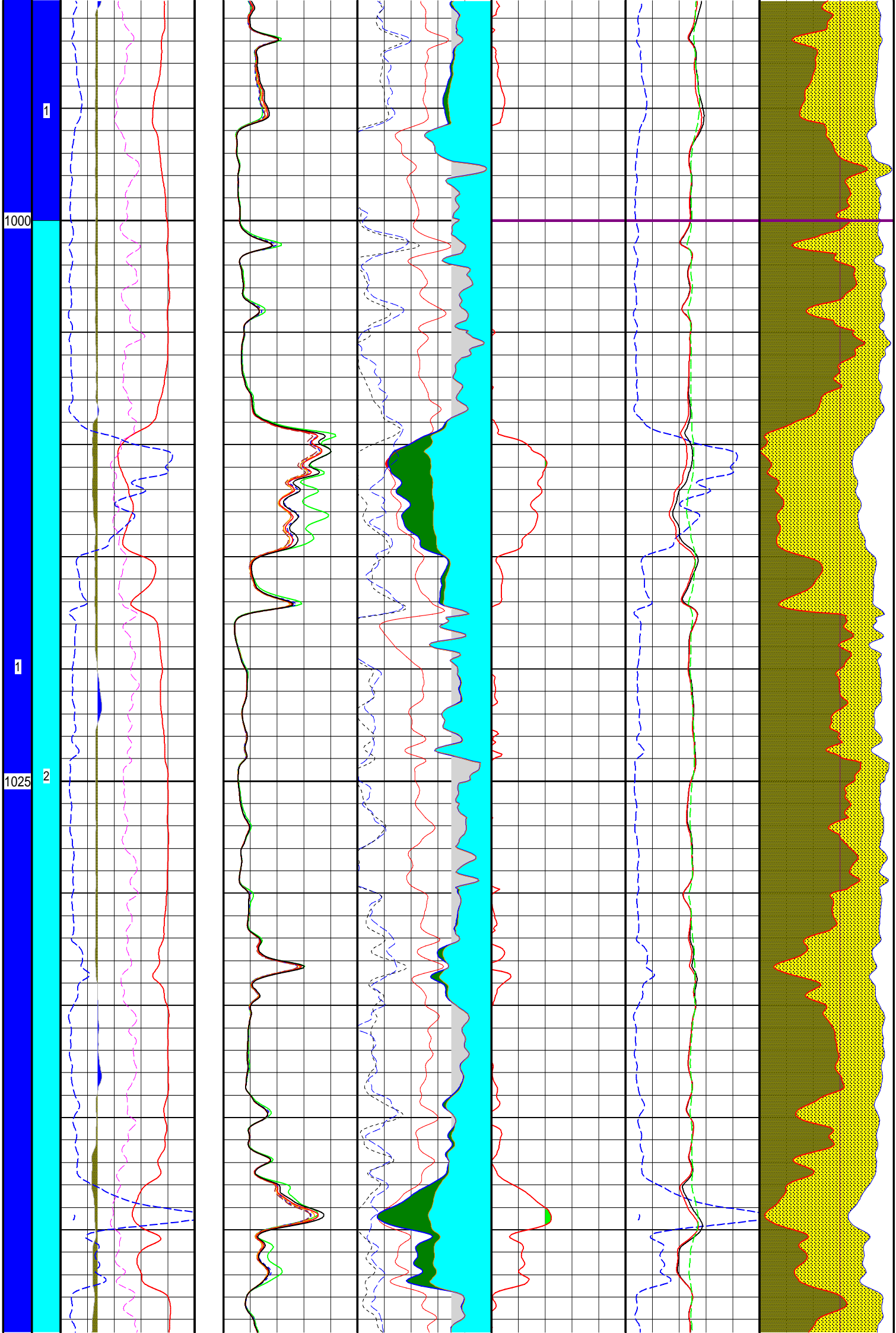
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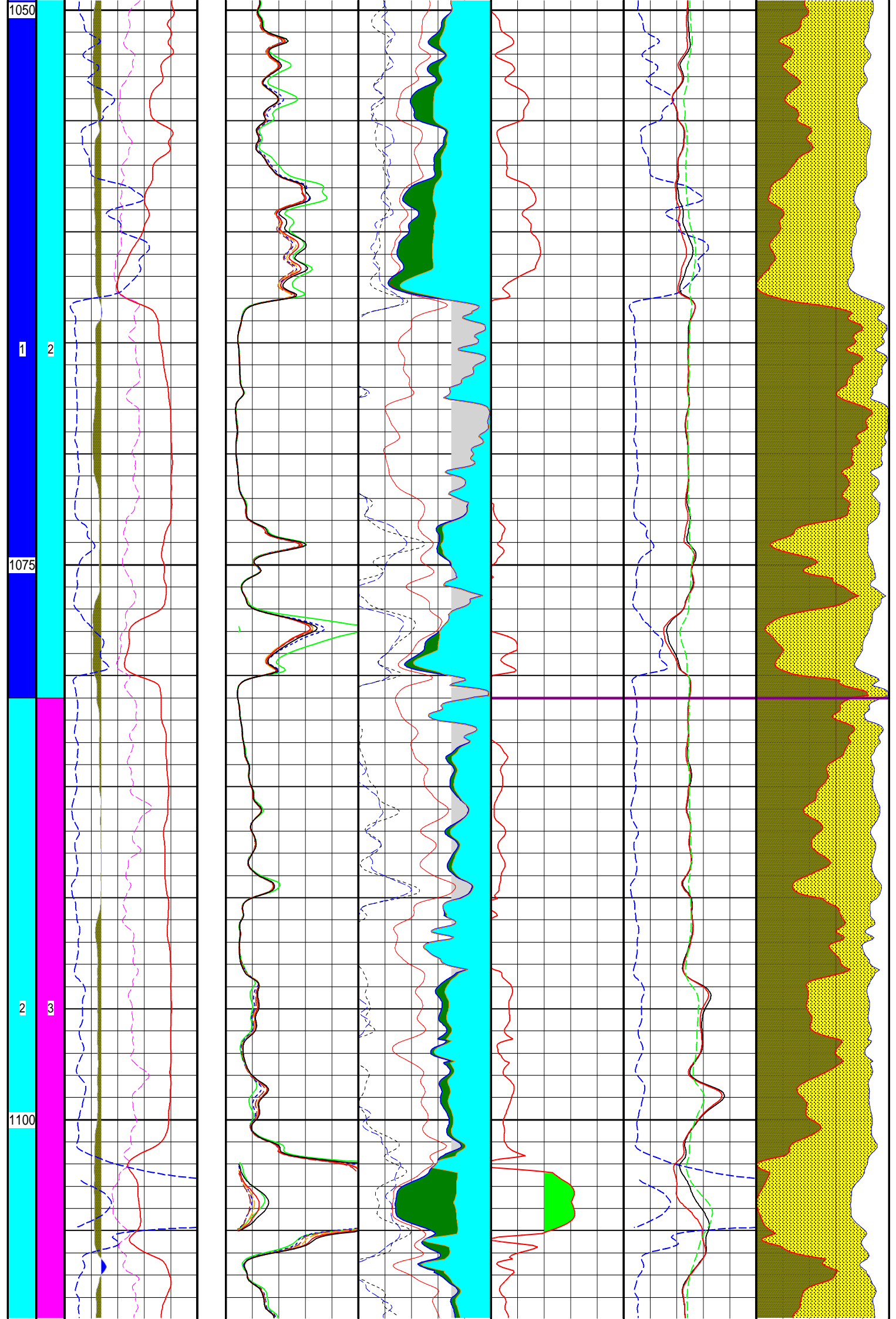
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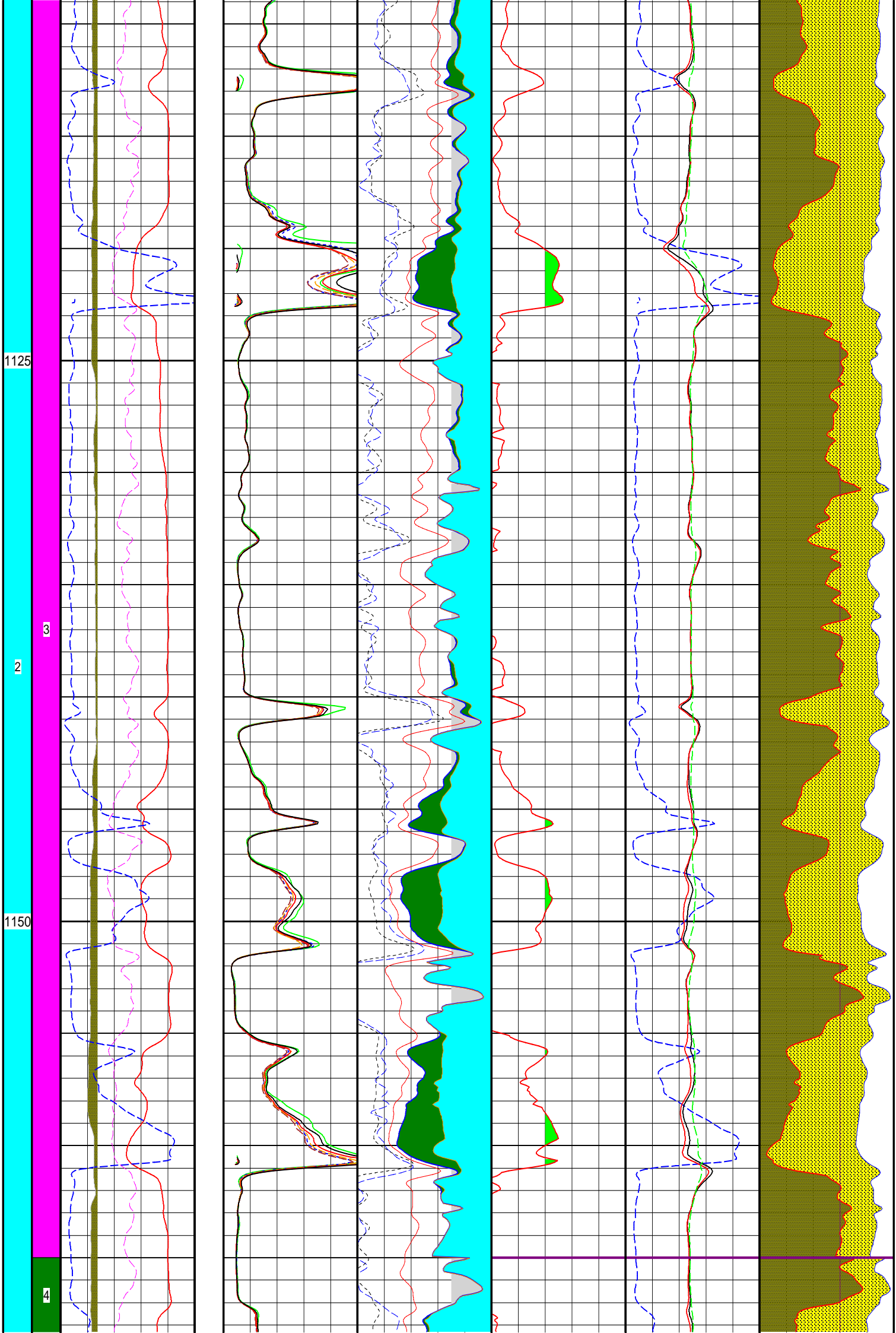










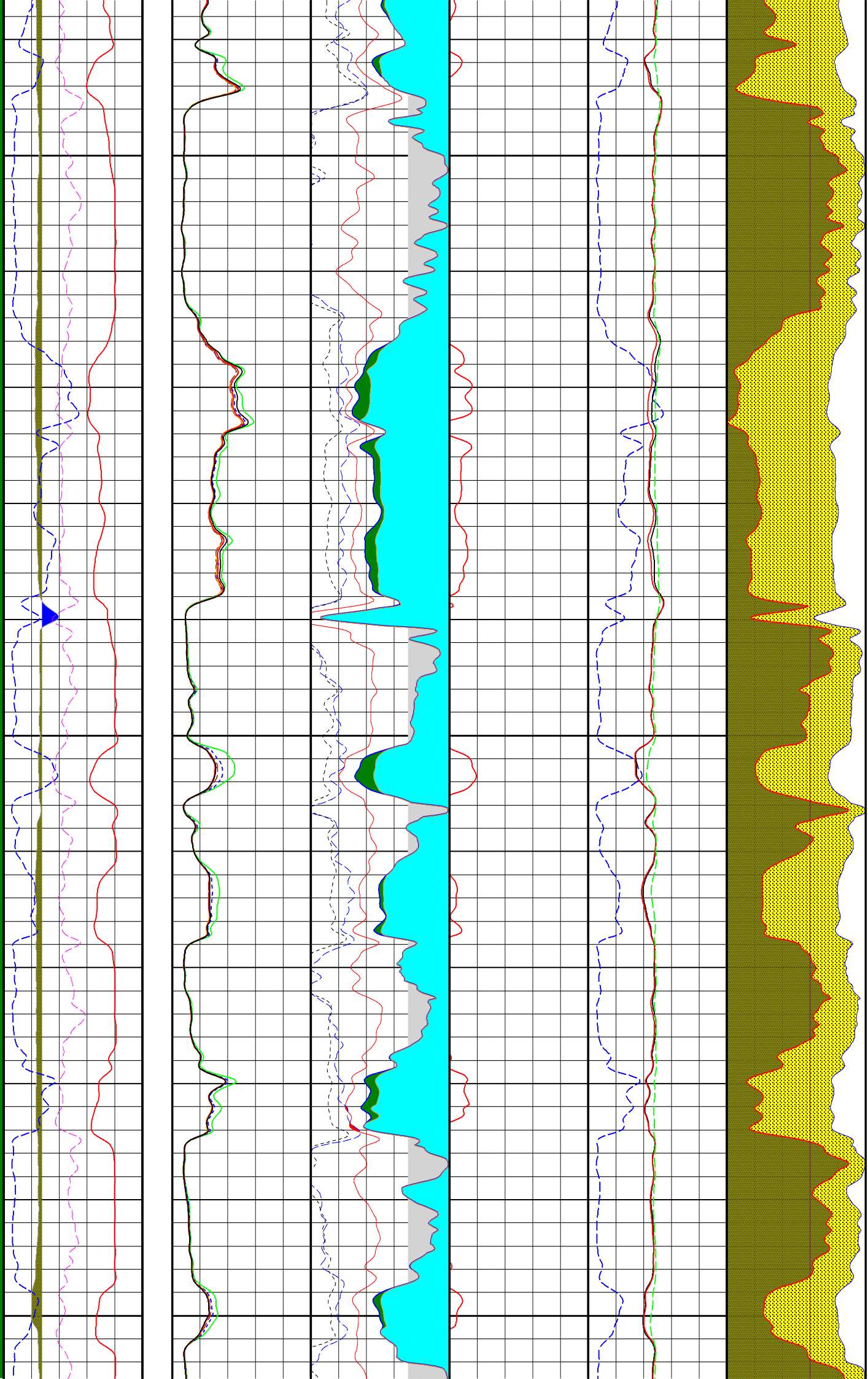


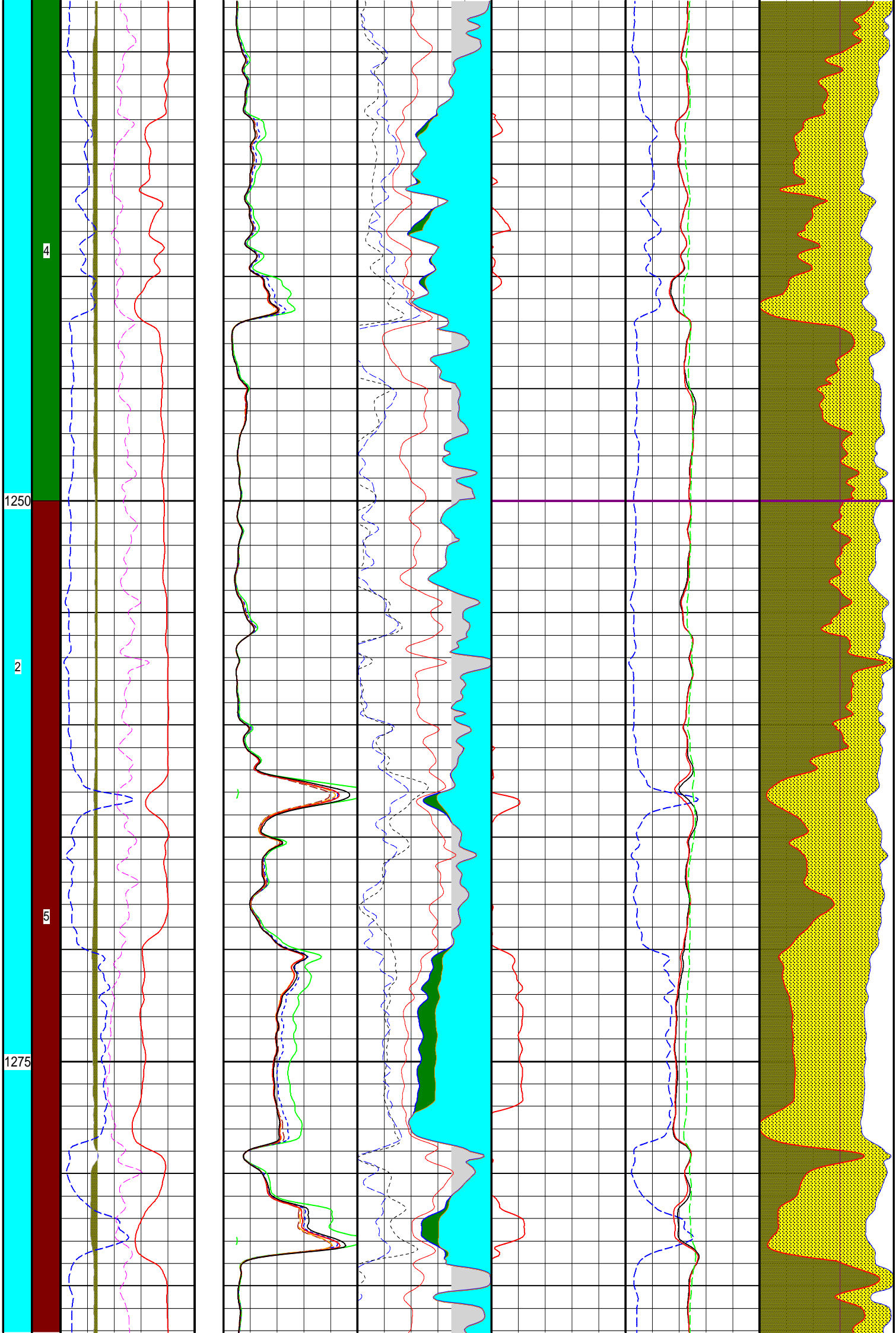
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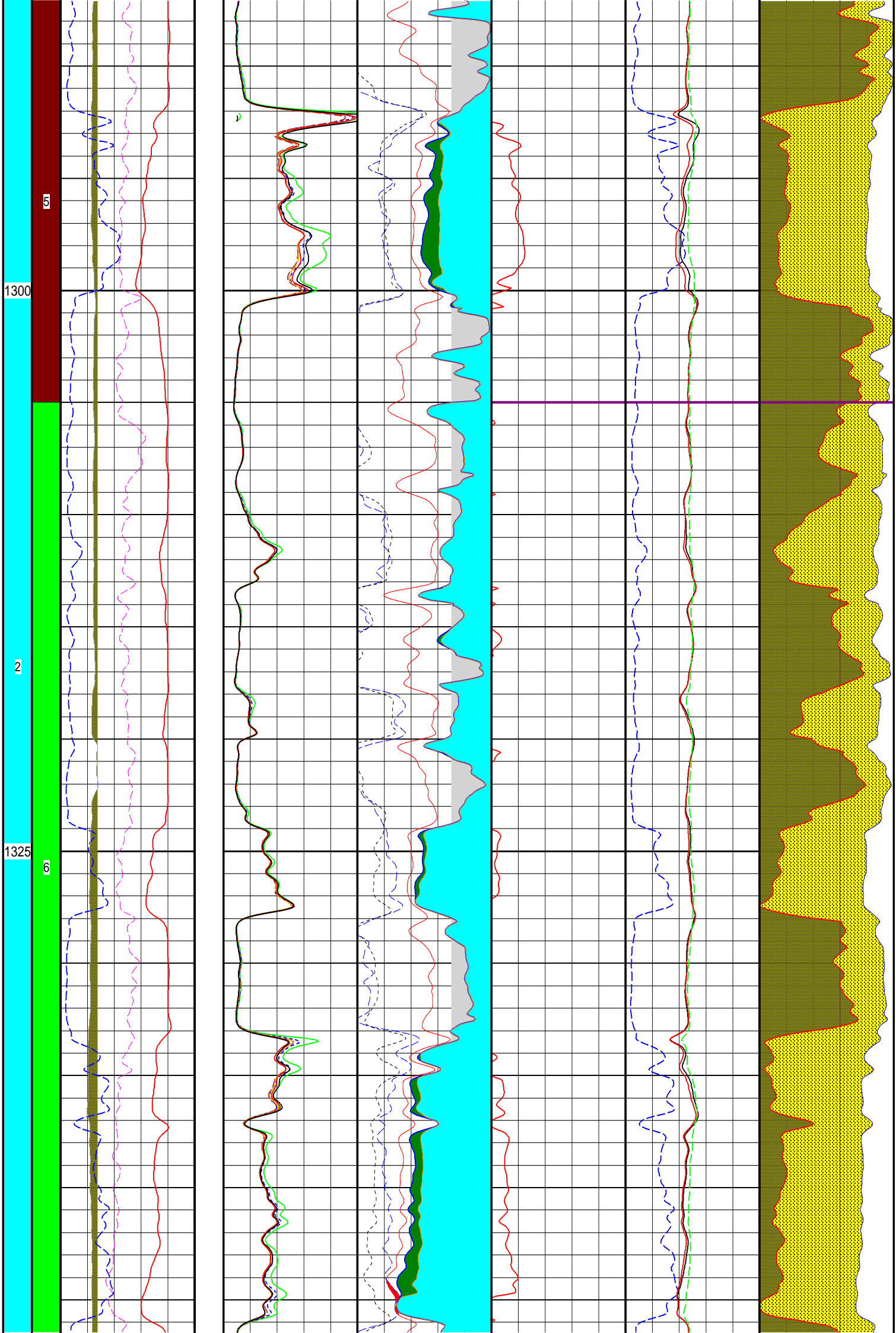
2 4

1200

1225







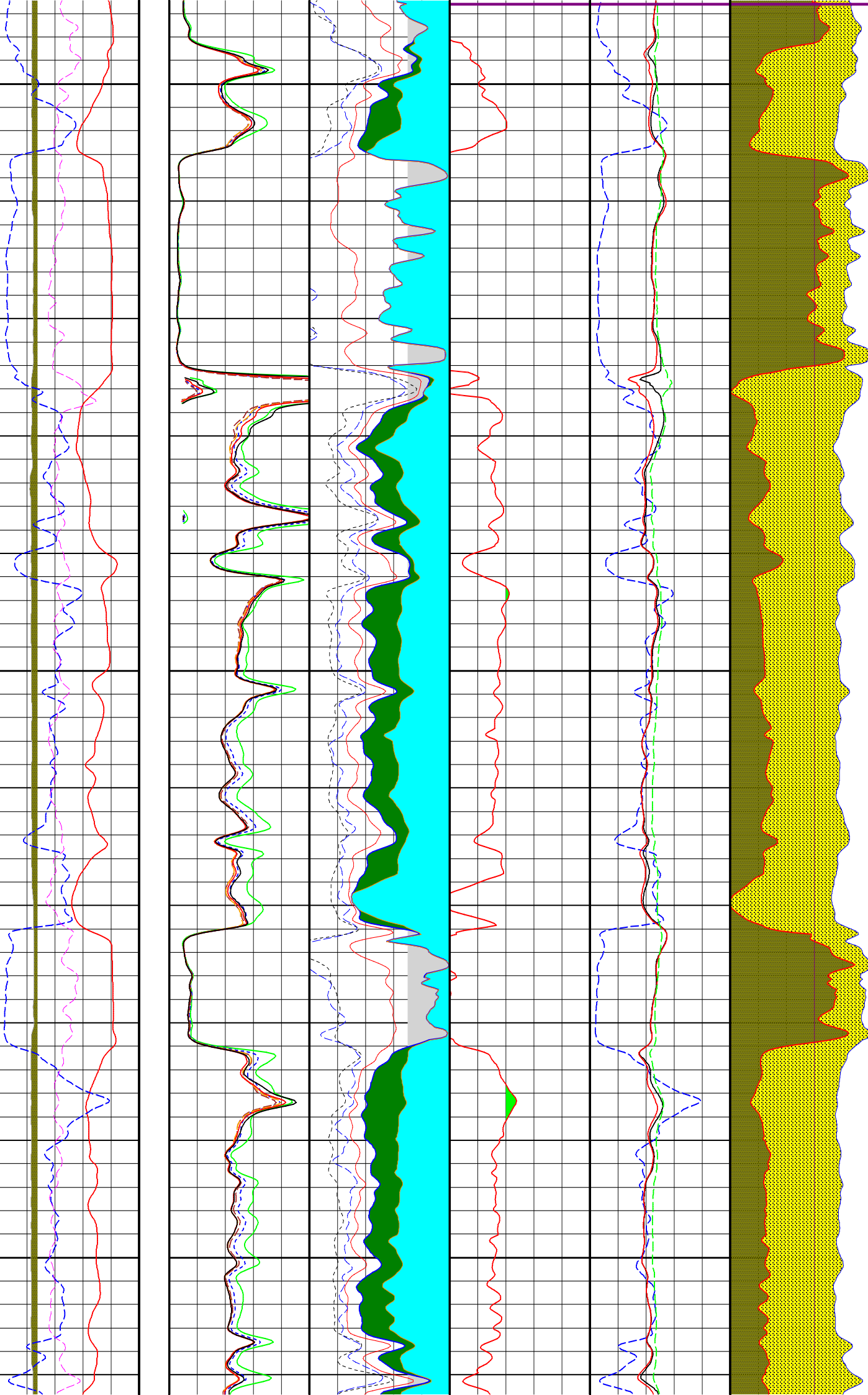
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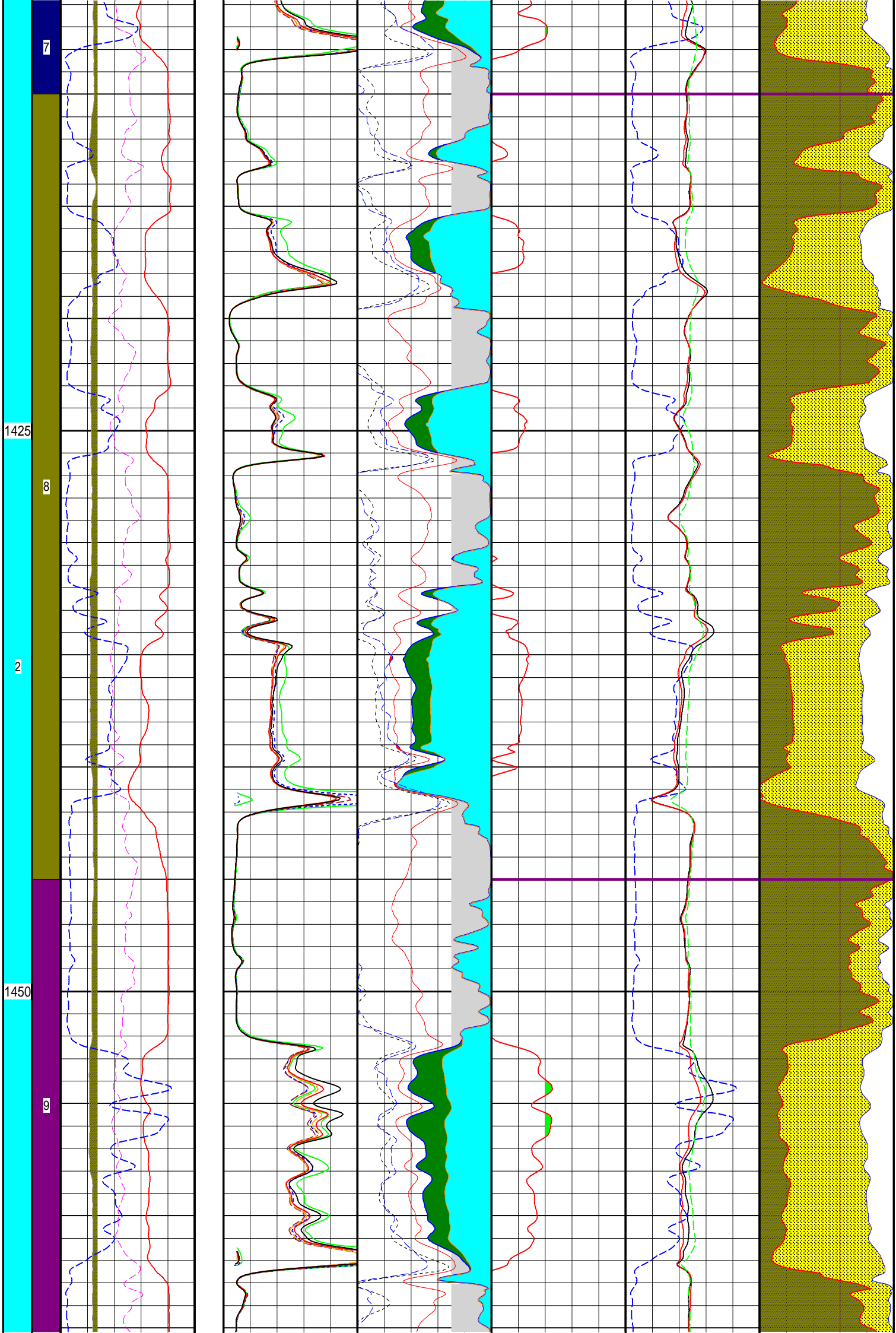
1375

1400

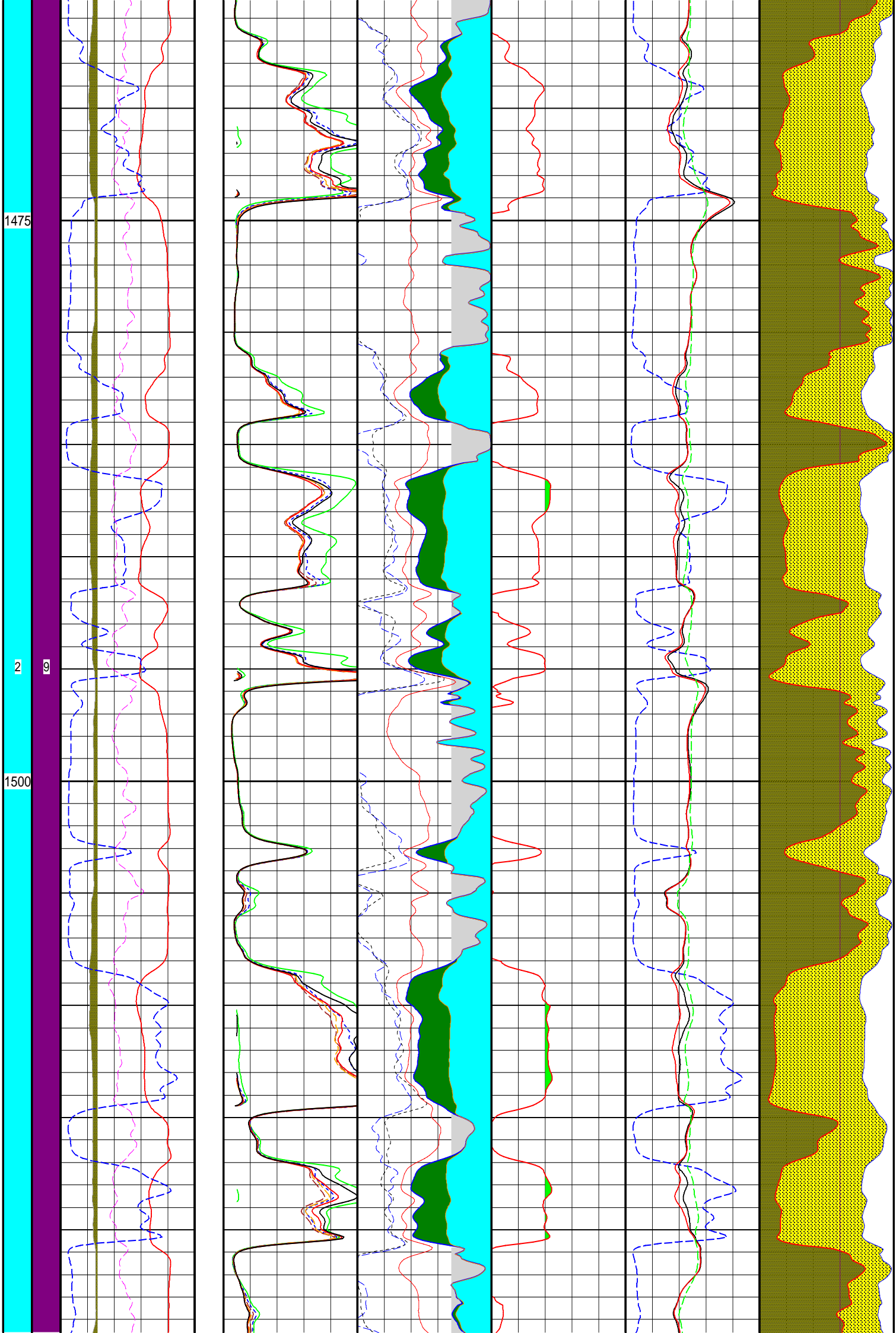
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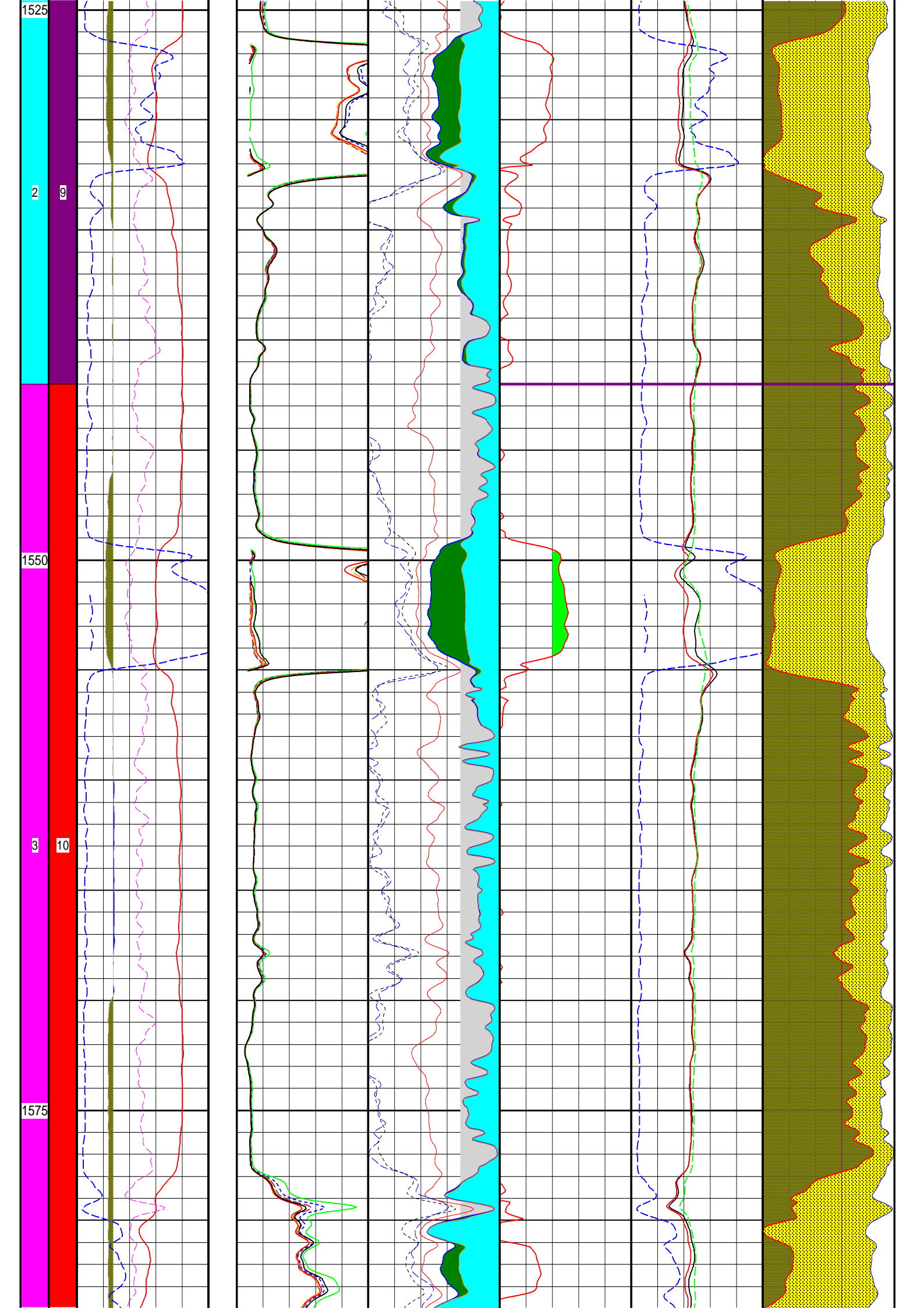
7

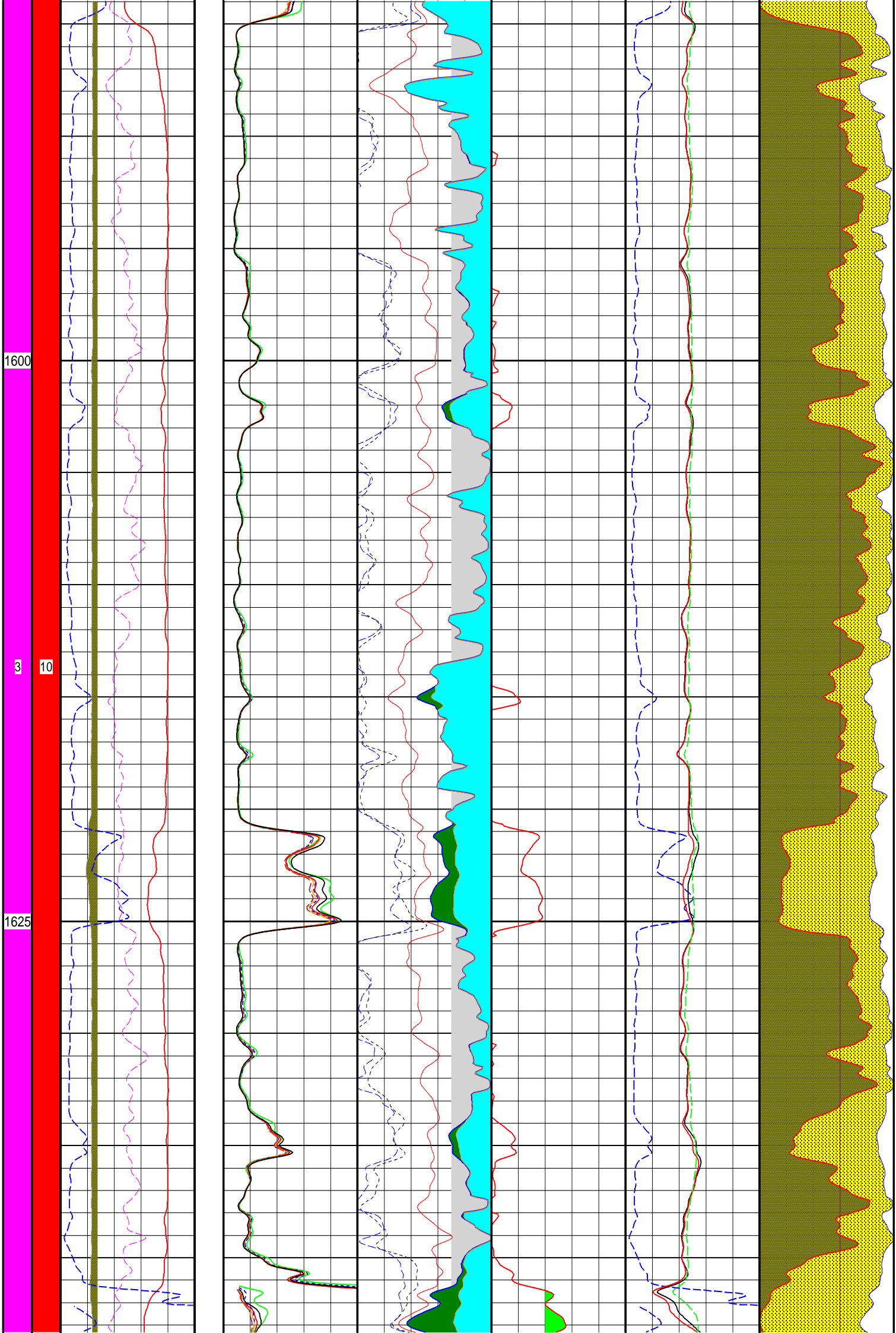


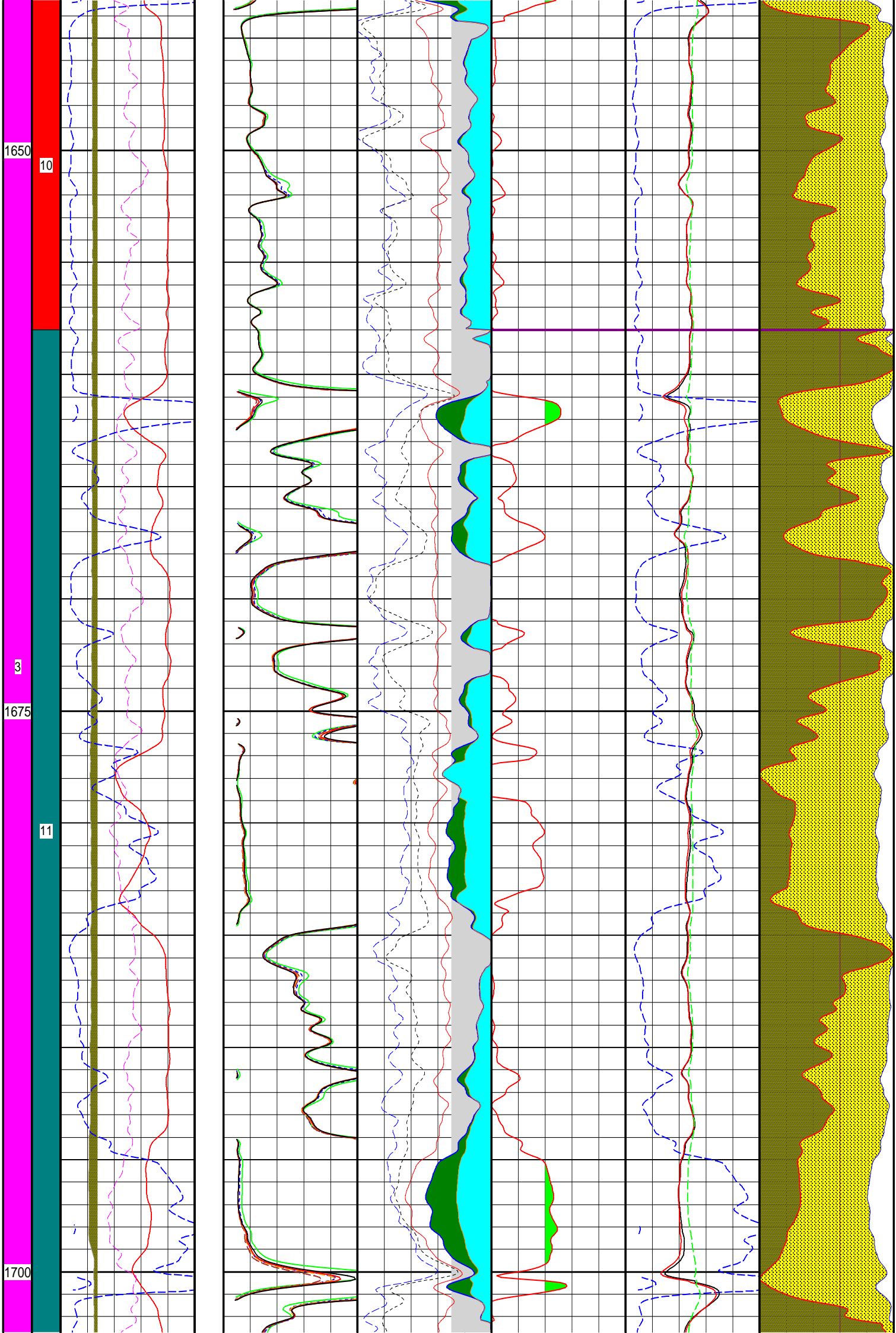


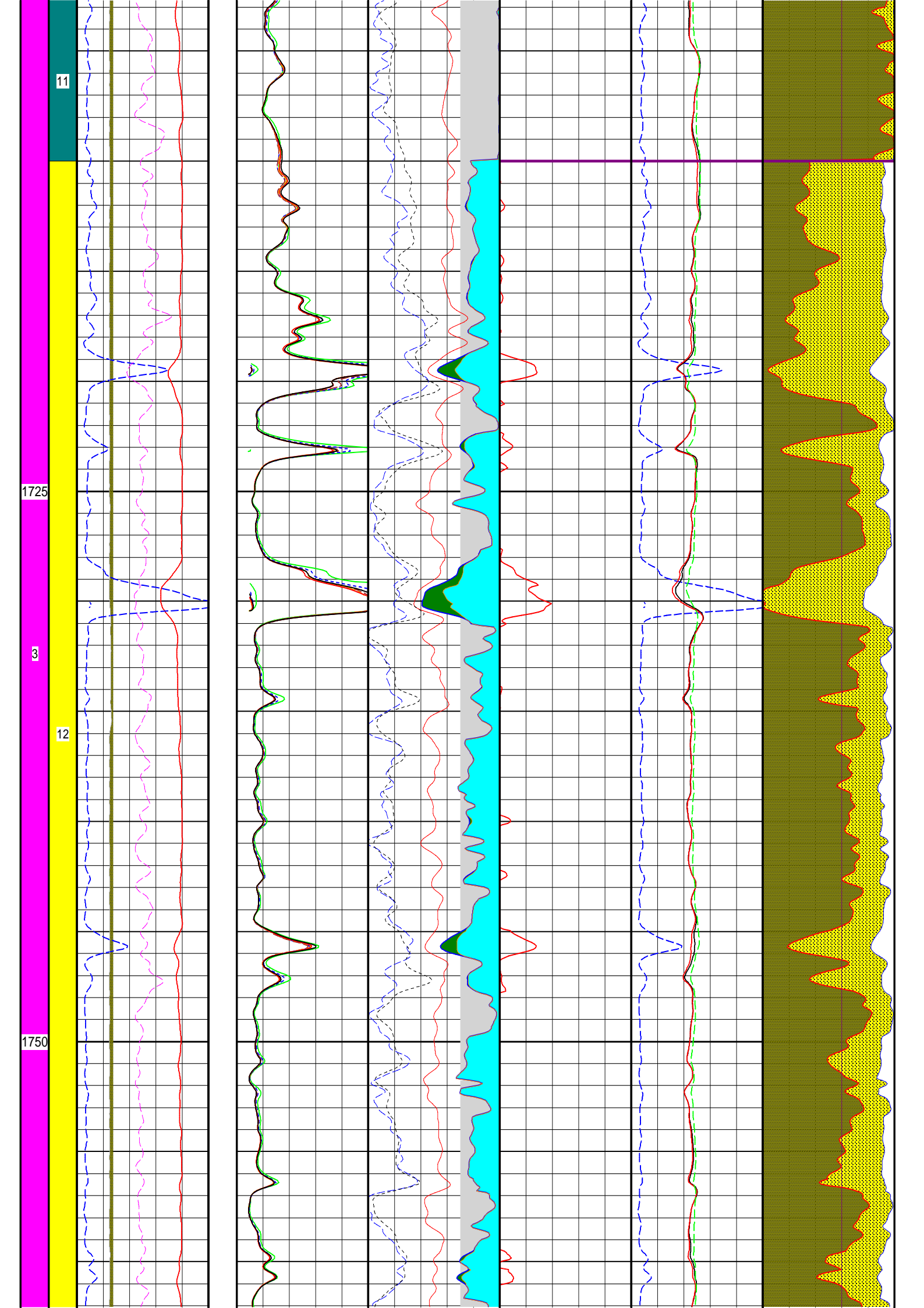


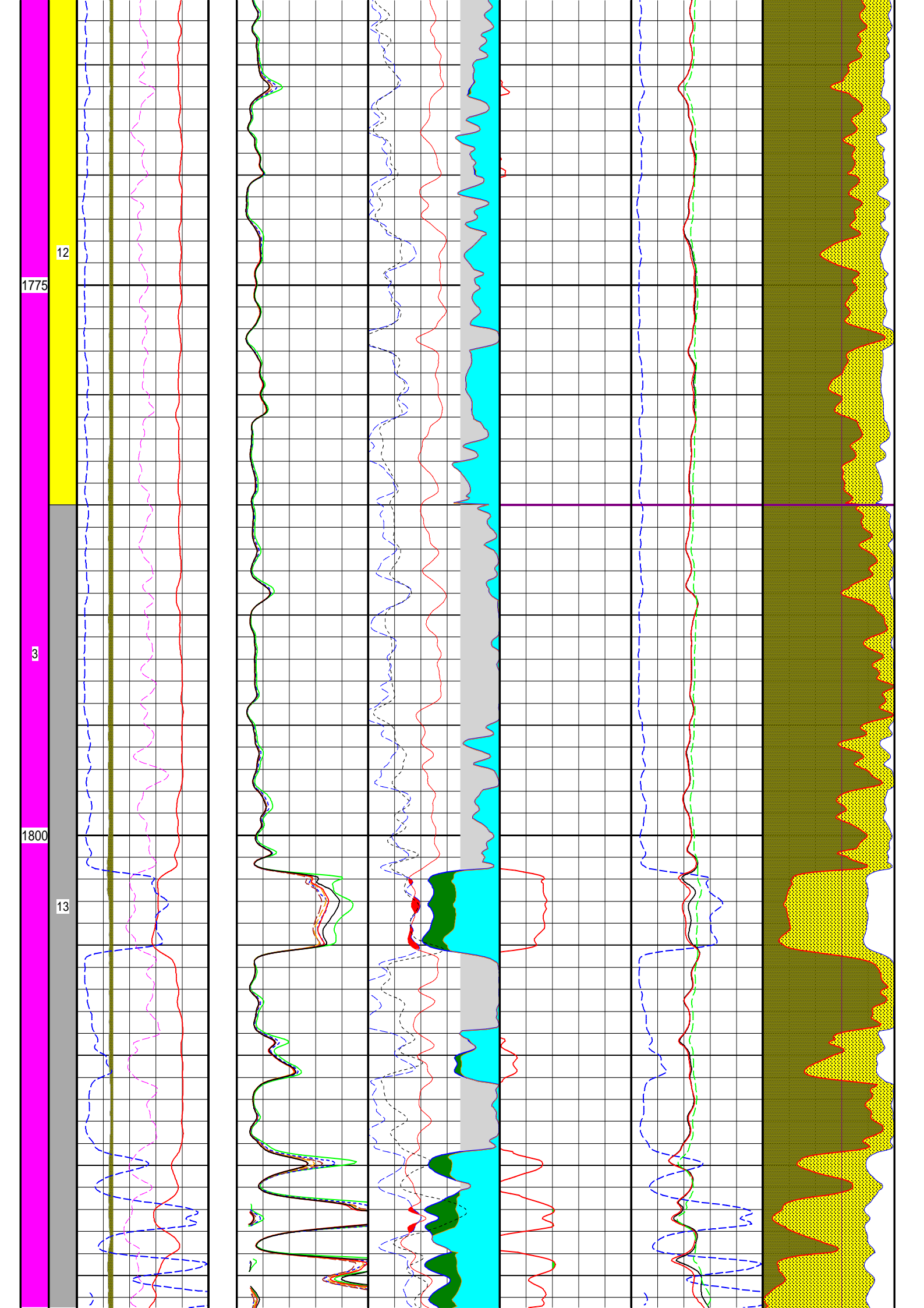


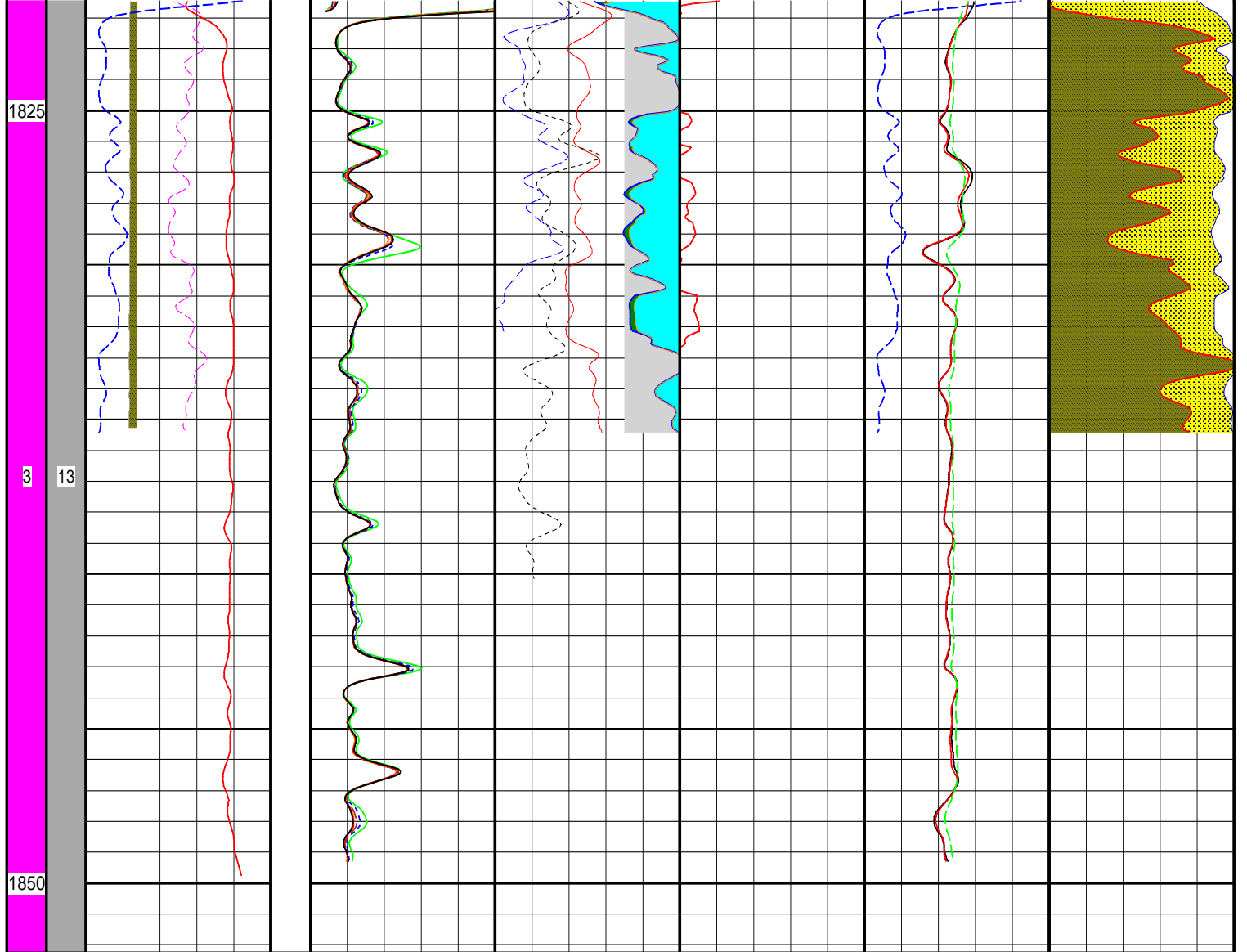












DEPT (M)	ZONA	SP-RWA-PE-CAL	Punz	Resistividad	Porosidad	Saturacion	Quik	Litologia
1825	3	SP (MV) 20.0 RWAC (OHMM) 1.0 CAL (IN) 16.0 PE (B/E) 5.0		M2R1 (OHMM) 10.0 M2R2 (OHMM) 10.0 M2R3 (OHMM) 10.0 M2R6 (OHMM) 10.0 M2R9 (OHMM) 10.0 M2RX (OHMM) 10.0	PRZC (PU) 0.4 CNCF (dec) 0.4 PORA (PU) 0.4 PHIE (Dec) 0.4 BVW (Dec) 0.4	SW (Dec) 0.0 <b>SW &lt; 60 % (HC)</b>	RWAC (OHMM) 1.0 R2X1 (.) 2.0 R291 (IN) 2.0 R292 (IN) 2.0	VWCL (Dec) 1.0 PHIE (Dec) 0.0 VCOAL (Dec) 1.0 Arcilla - Toba Porosity SANDSTONE
1850	13	REVOQUE CAVERNA			GAS SE Agua Oil			



Company YPF SA  
 Well Name EA-809  
 Field EL ALBA  
 Country \_\_\_\_\_ State \_\_\_\_\_

Location X

Permanent Datum N. T. Elevation 668.80 Elevation: K.B.  
 Log Measured from N. T. 0.00 Above Permanent Datum D.F. 674.30  
 Drill Measured From N. T. G.L. 668.80

Date		
Run ID	1	2
Depth - Driller	1850.0	
Depth - Logger	1852.3	
Btm Log Interval	1849.0	
Top Log Interval	356.5	
Casing Driller		
Casing - Logger		
Bit Size	8.75	
Type of Fluid in Hole	PHPA	
Mud Weight	1150	
Mud pH	9.0	
Source: Rm	ULTIMA CIRCULADA	
Rm	2.33	
Rmf	1.86	
Rmc	2.59	
Source: Rmf	MEDICION	
RMBHT	0.90	
Time End Circulation		
Time at Bottom		
Max Rec Temp	169.5	

Scale : 1 : 200

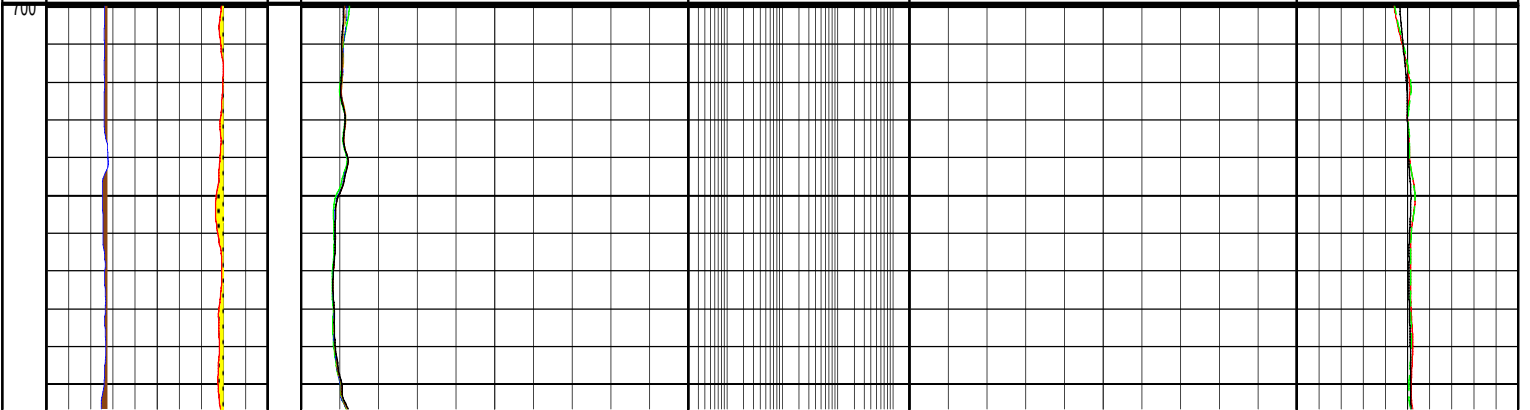
EA-809

DB : Petrofisica EL ALBA (12)

DEPTH (699.97M - 1852.27M)

03/16/2010 14:22

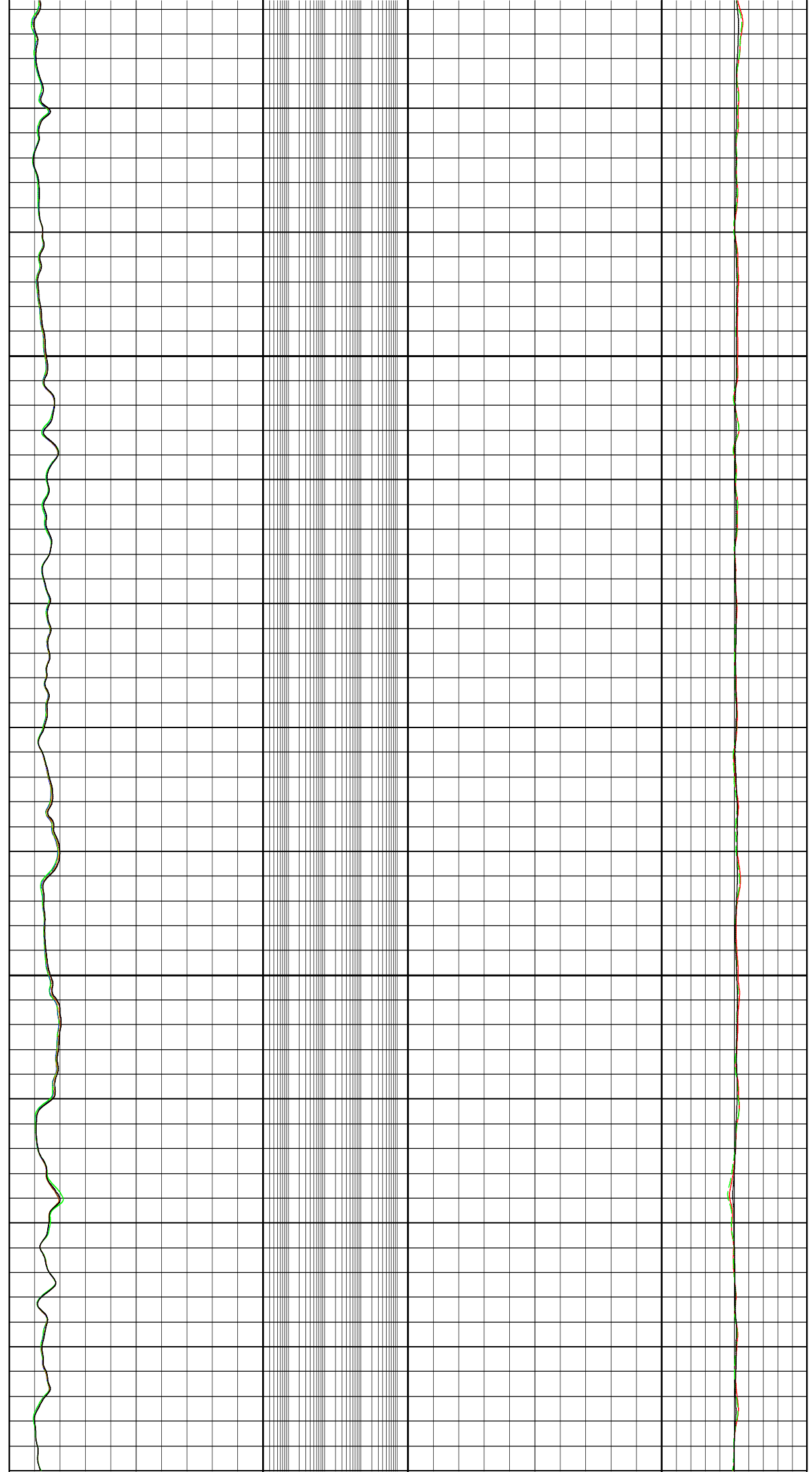
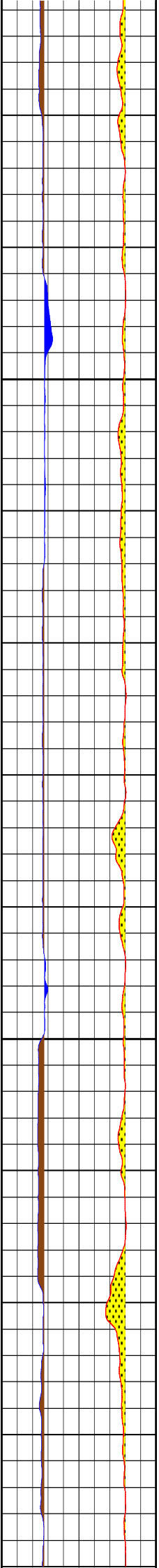
1	Litología	Punz.	Resistividad	Permeabilidad	Porosidad	Quick
DEPT (M)	CAL (IN)	0. -16.	M2R1 (OHMM)	Perm (md)	PRZC (PU)	RWAC (OHMM)
6.	SP (MV)	0. -20.	M2R2 (OHMM)	0.1 -1000.	PORA (PU)	R2X1 (.)
-80.	PE (B/E)	0. -5.	M2R3 (OHMM)		CNCF (dec)	R291 (IN)
0.	RWAC (OHMM)	0. -1.	M2R6 (OHMM)			R292 (IN)
0.			M2R9 (OHMM)			
			M2RX (OHMM)			





725

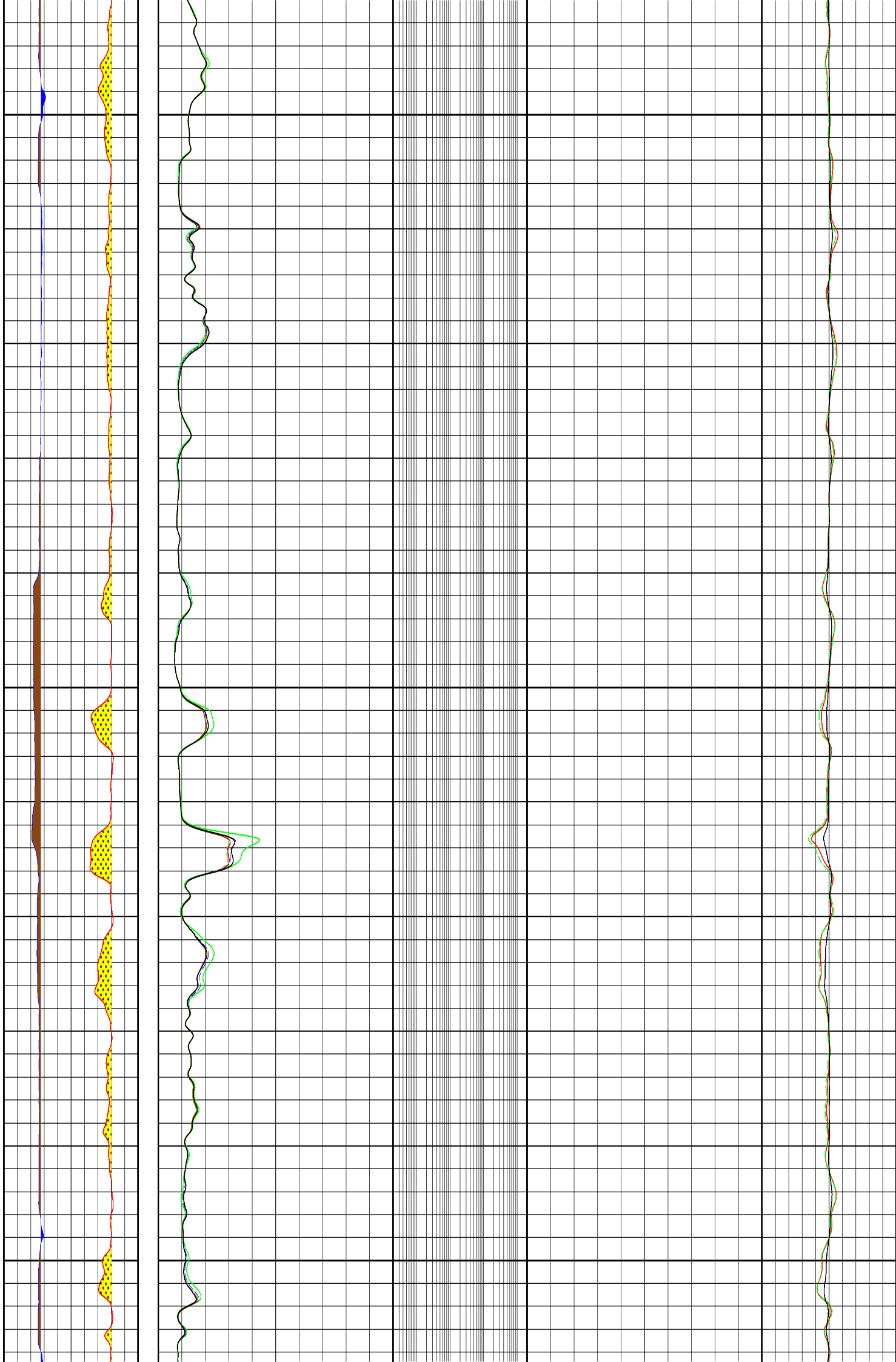
750



775

800

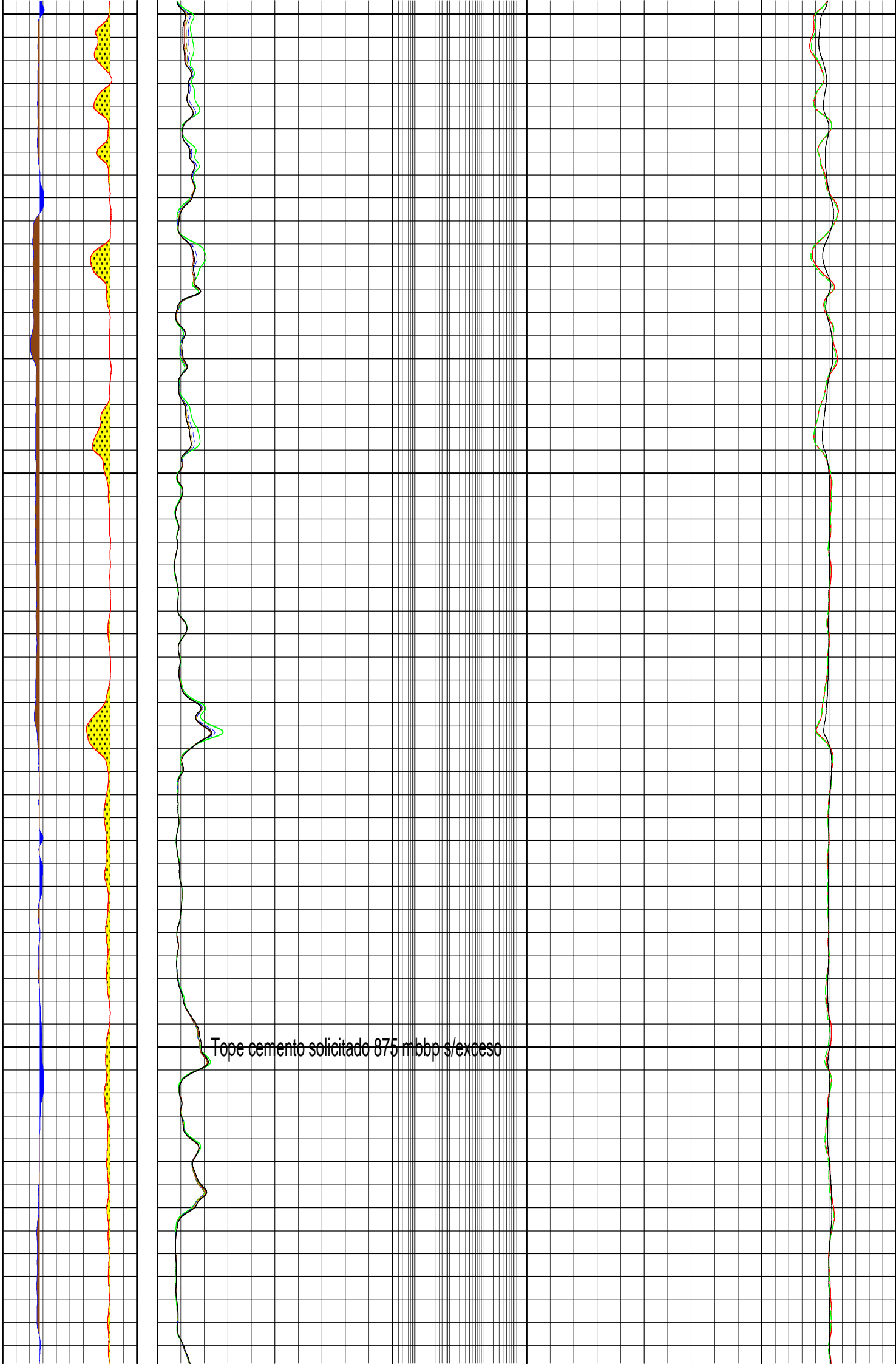
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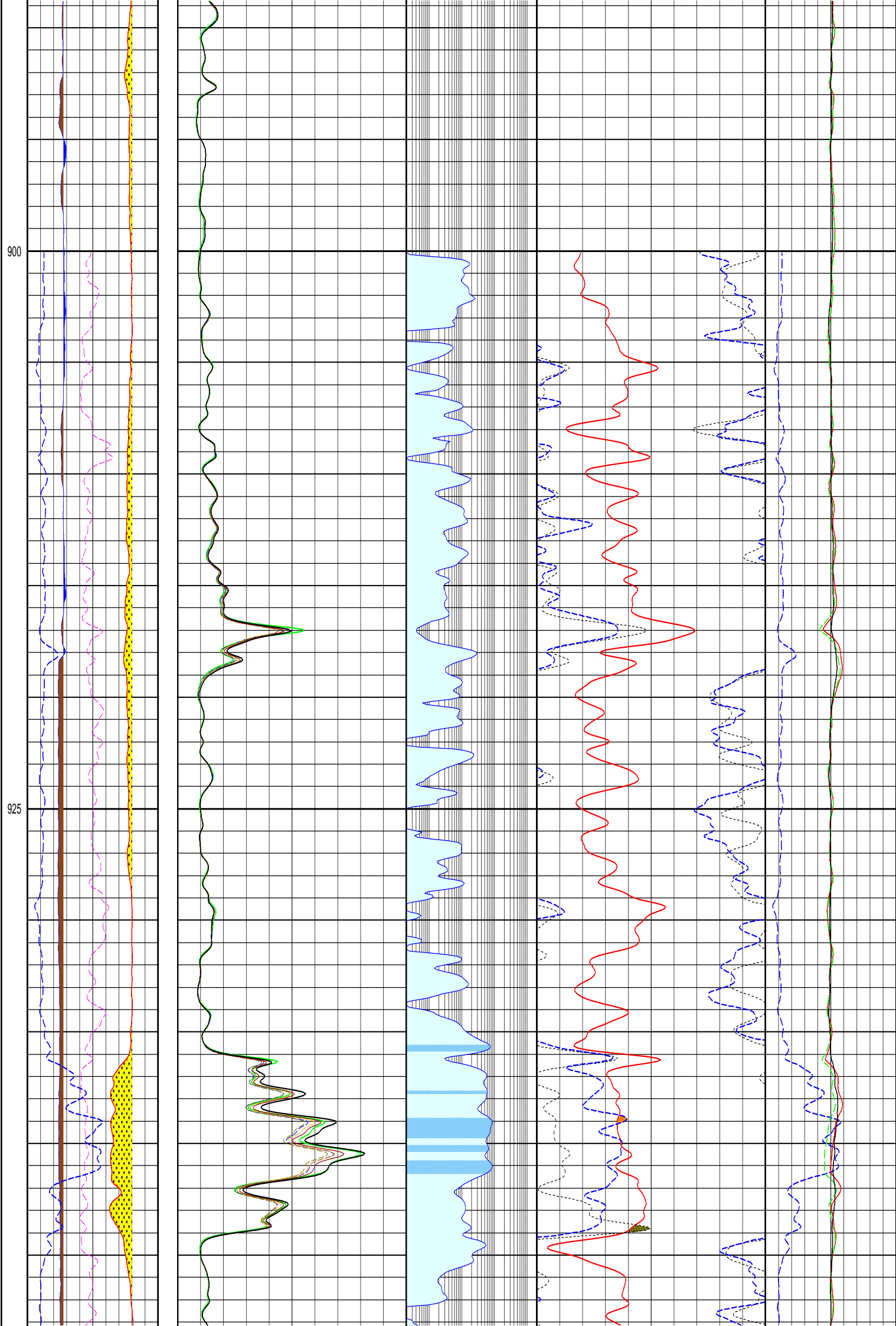


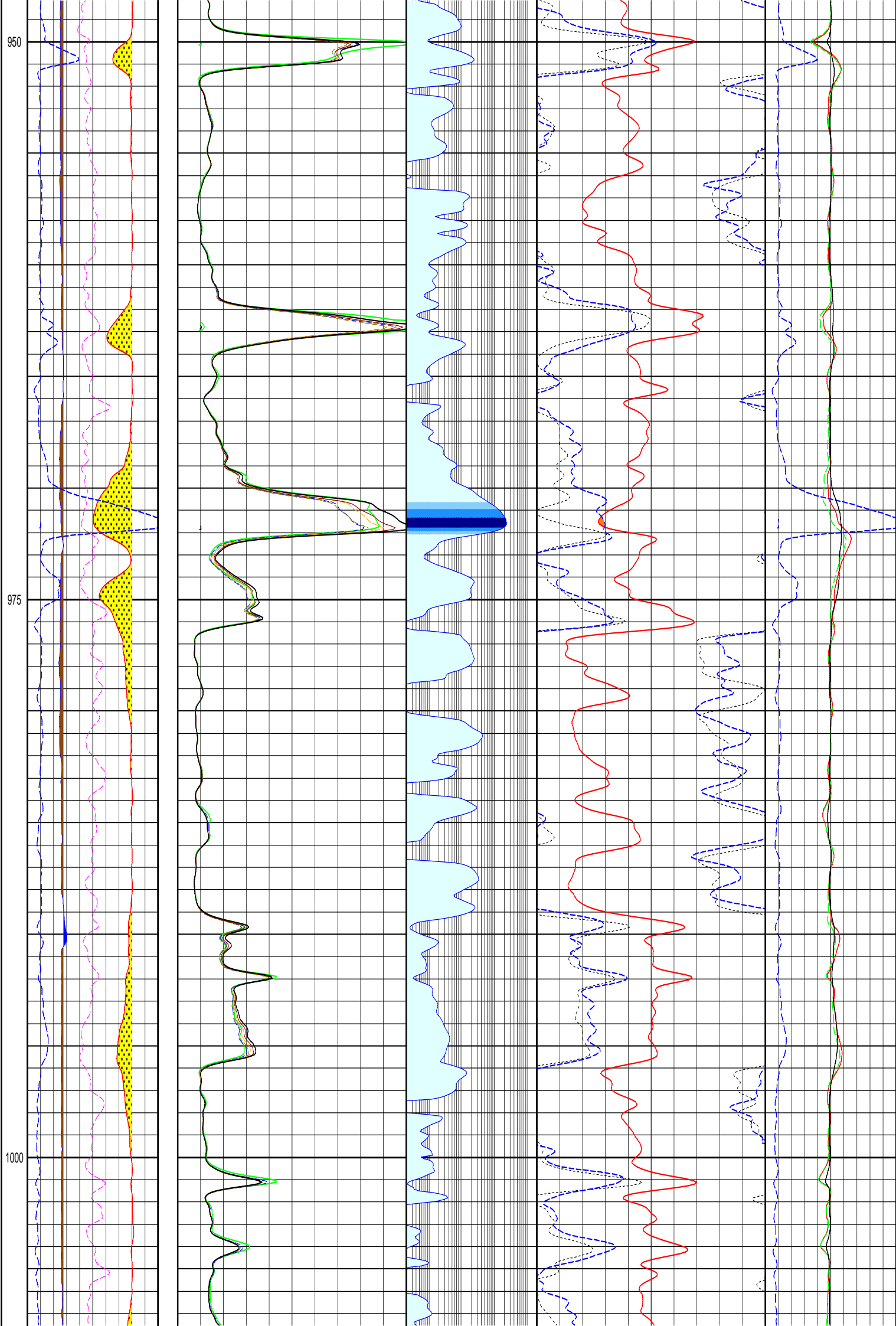
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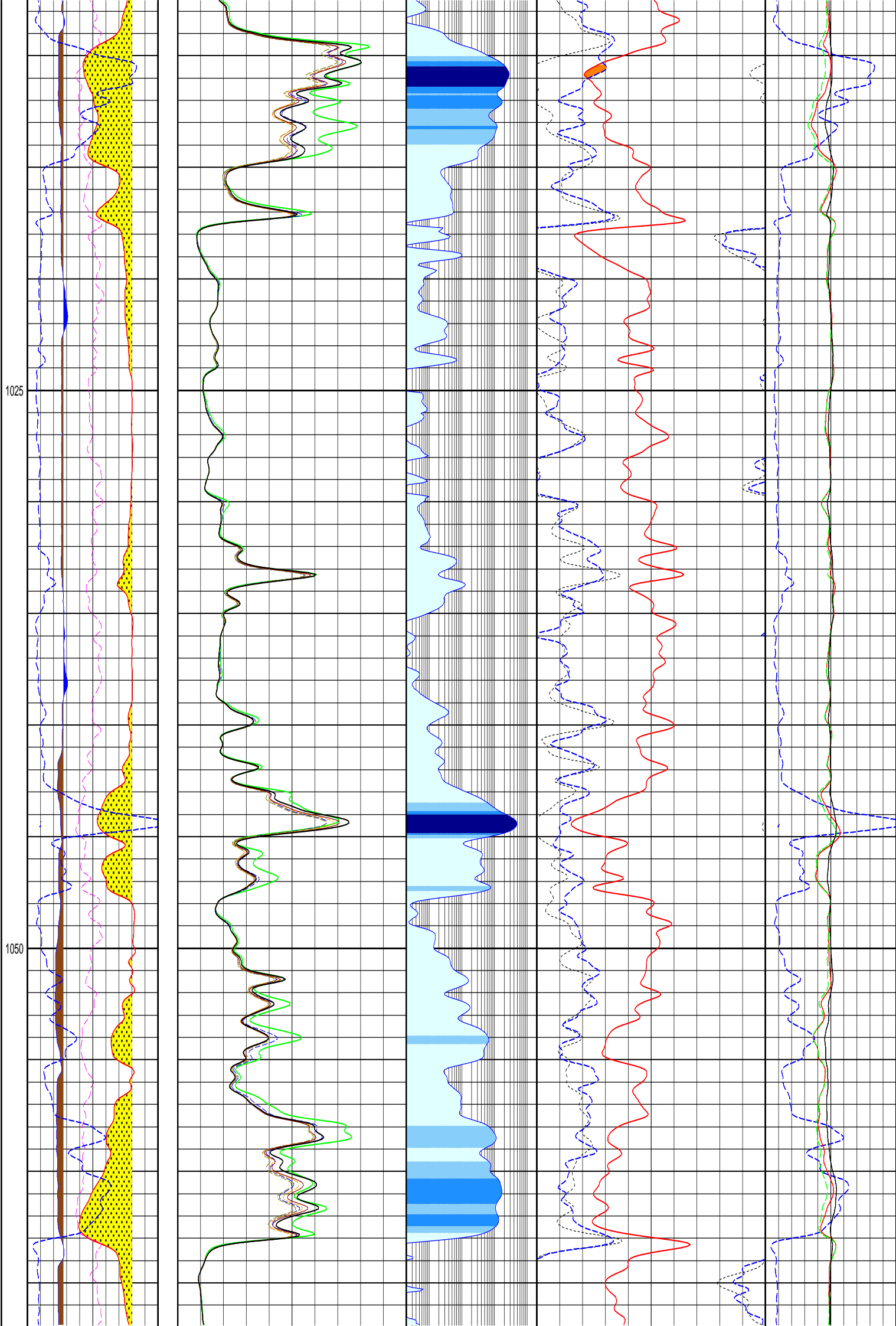
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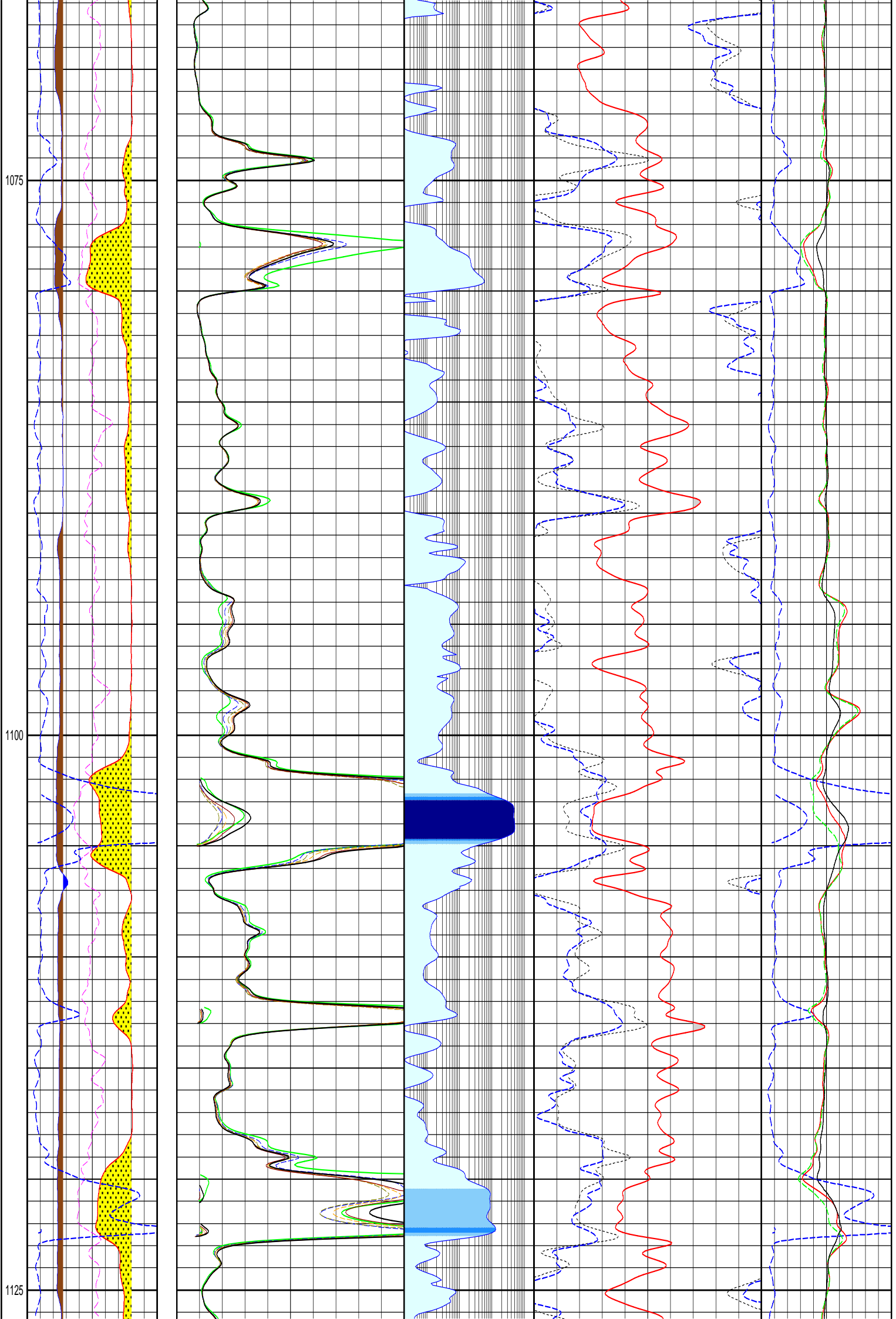
Tope cemento solicitado 875 mbbp s/exceso

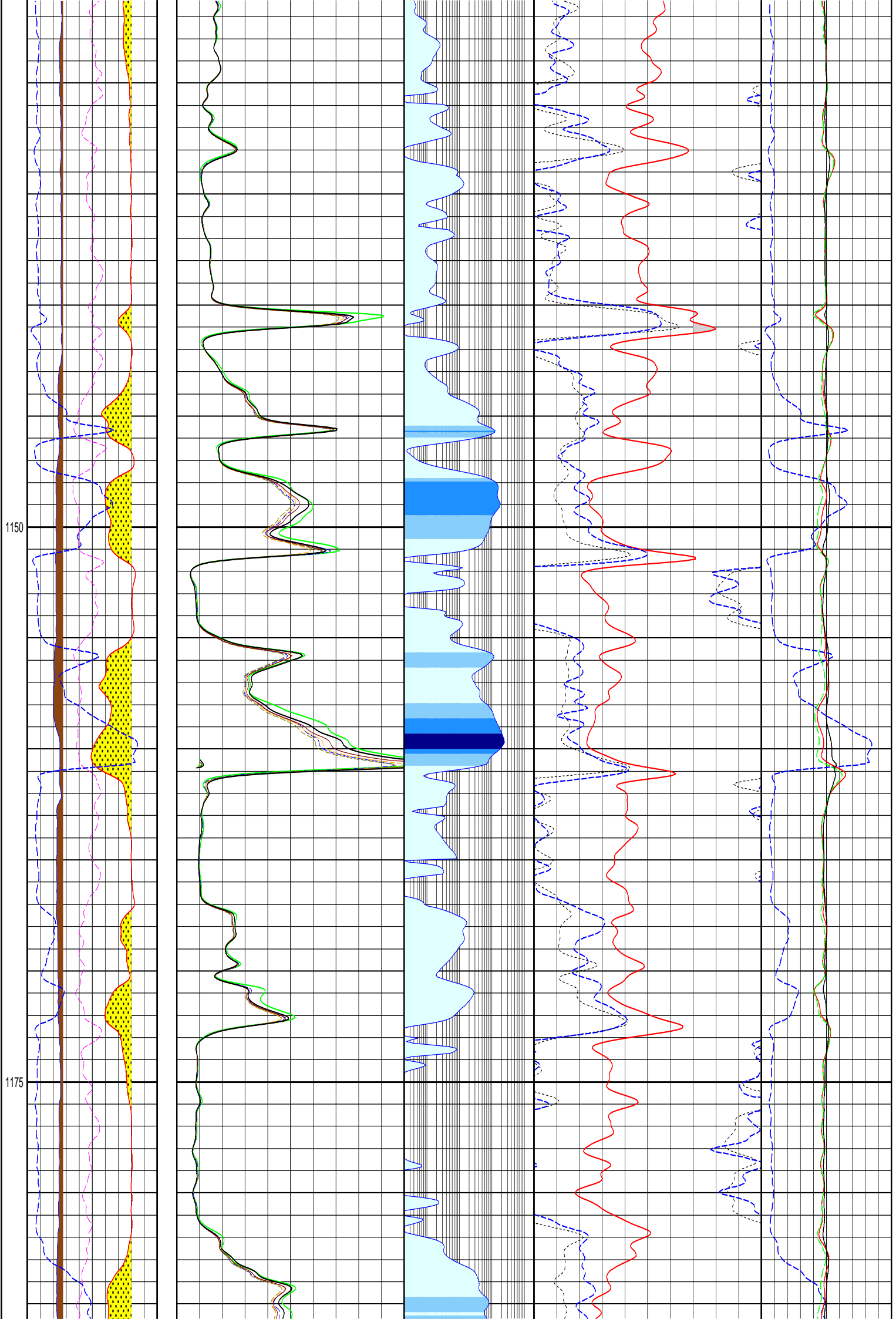




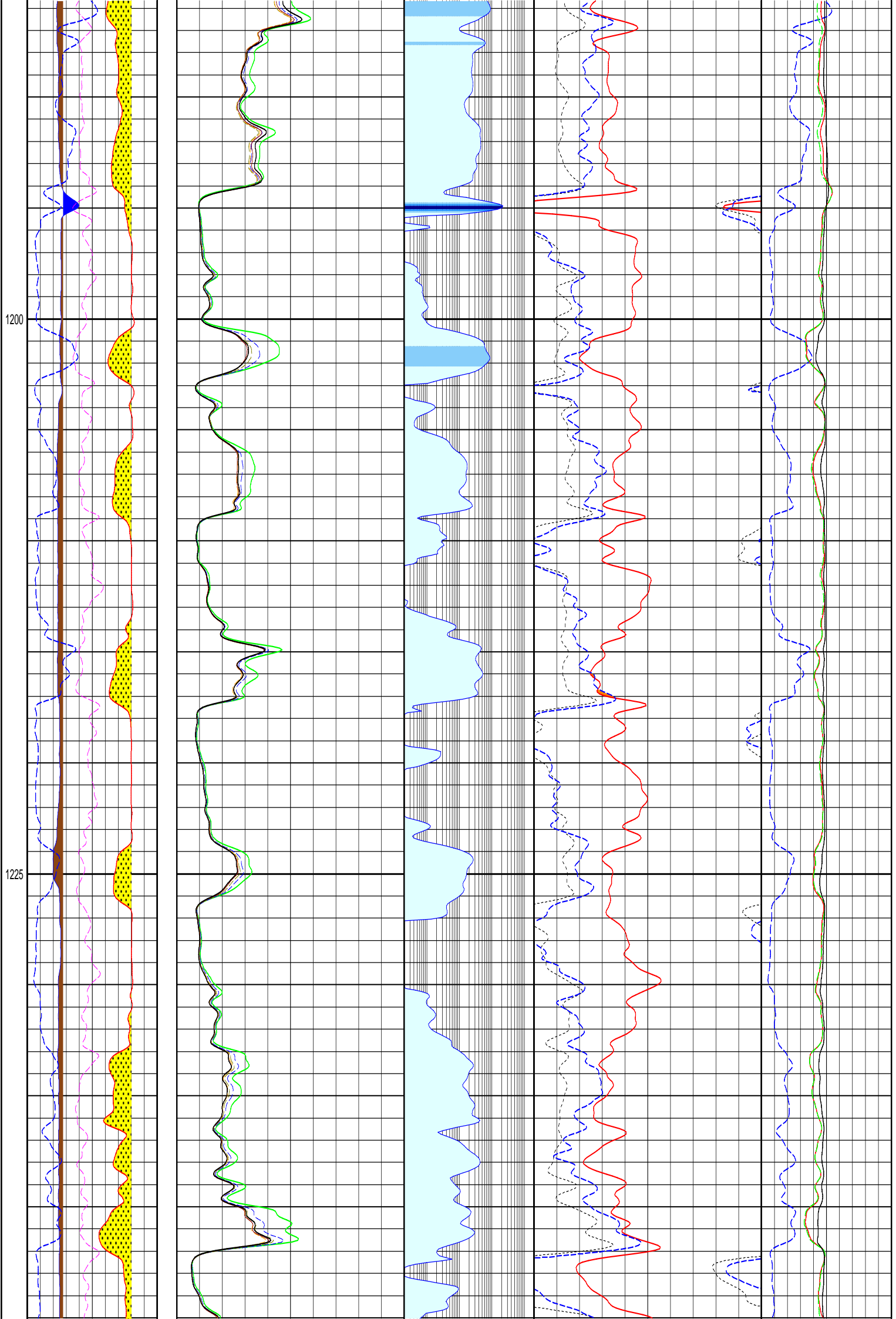


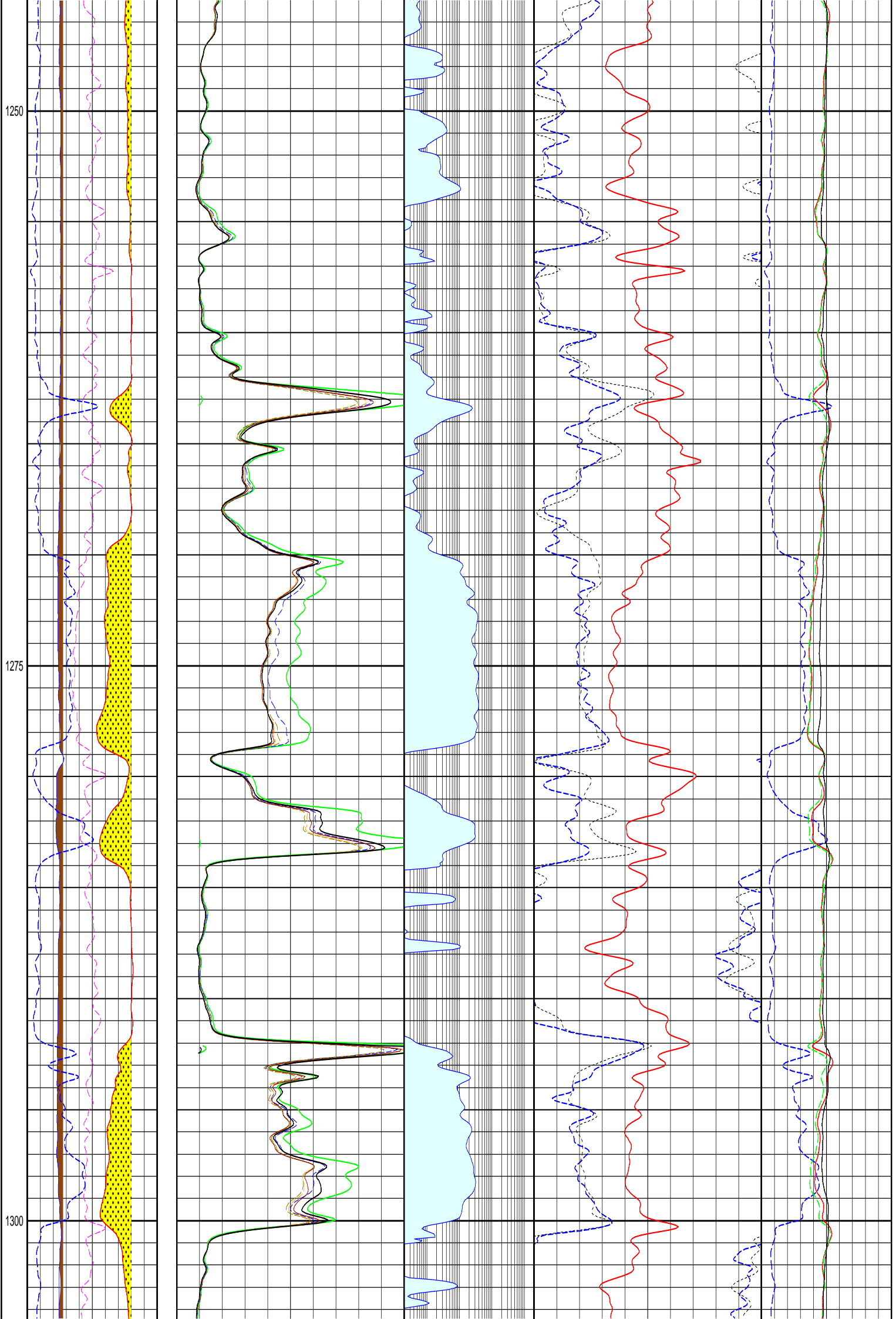


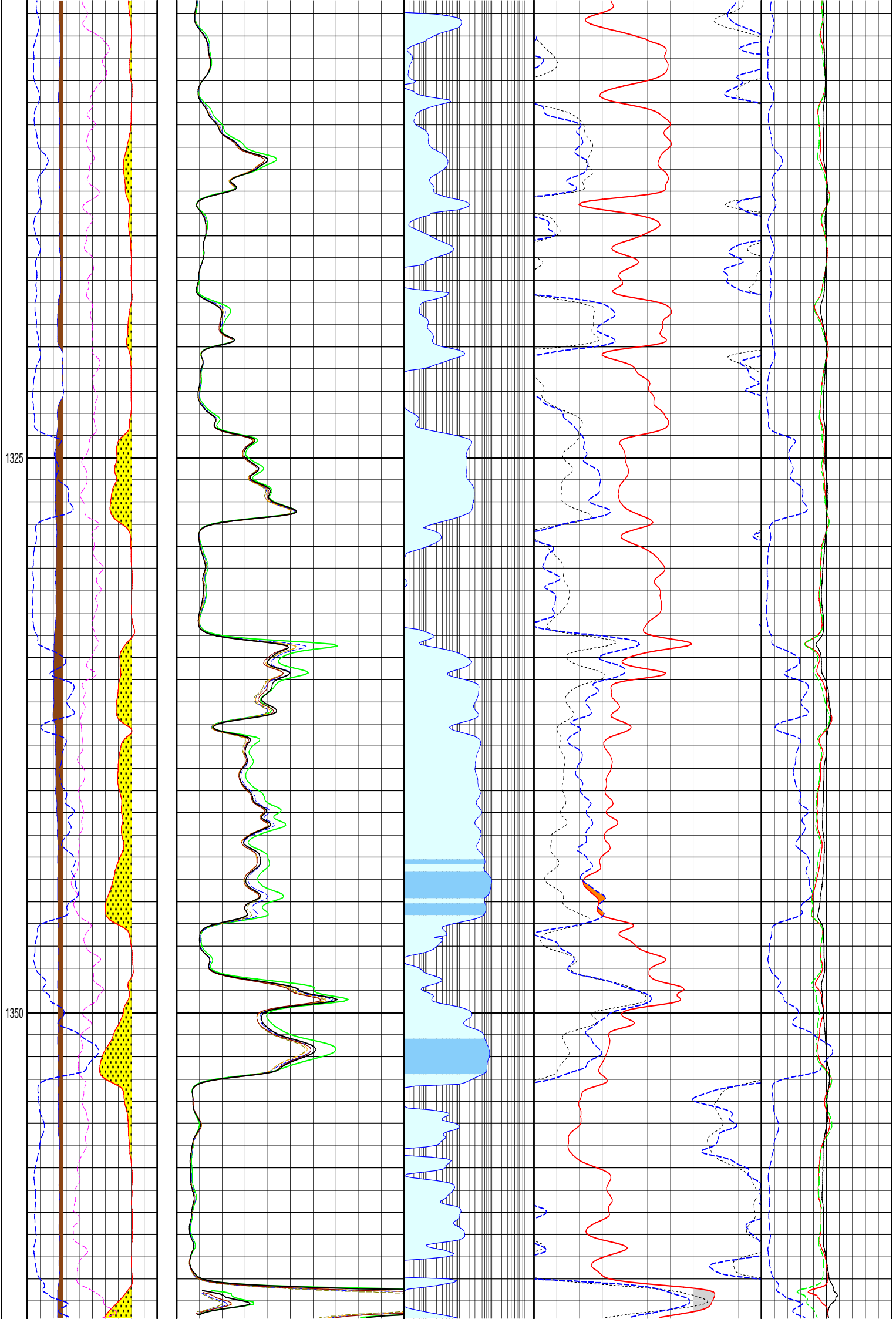












1375

1400

