

All Zones 900.00 1843.00 943.00 95.63 0.101 0.204 0.757 0.183 19.55 4.74

Pay SUMMARY

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Rv Phi	Rv Sw	Rv Vcl	Phi*H	PhiSo*H
1	CIIa	900.00	968.00	68.00	0.23	0.003	0.226	0.596	0.199	0.05	0.02
2	CIIb	968.00	1080.00	112.00	0.00	0.000	---	---	---	---	---
3	CIIIa	1080.00	1185.00	105.00	6.55	0.062	0.230	0.508	0.231	1.51	0.74
4	CIIb	1185.00	1277.00	92.00	0.08	0.001	0.285	0.600	0.292	0.02	0.01
5	CIIIc	1277.00	1400.00	123.00	0.00	0.000	---	---	---	---	---
6	CIIId	1400.00	1455.00	55.00	0.00	0.000	---	---	---	---	---
7	CIIIe	1455.00	1573.00	118.00	7.70	0.065	0.257	0.535	0.175	1.98	0.92
8	CIVa	1573.00	1690.00	117.00	3.58	0.031	0.206	0.526	0.107	0.74	0.35
9	CIVb	1690.00	1767.00	77.00	0.53	0.007	0.236	0.553	0.076	0.13	0.06
10	CIVc	1767.00	1843.00	76.00	1.52	0.020	0.179	0.540	0.104	0.27	0.13
All Zones		900.00	1843.00	943.00	20.19	0.021	0.233	0.526	0.174	4.70	2.22

CUTOFFS USED

Zn #	Zone Name	Top	Bottom	Min. Height	Phi PHE	Sw SW	Vcl VCL
<b>Reservoir</b>							
1	CIIa	900.00	968.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
2	CIIb	968.00	1080.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
3	CIIIa	1080.00	1185.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
4	CIIb	1185.00	1277.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
5	CIIIc	1277.00	1400.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
6	CIIId	1400.00	1455.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
7	CIIIe	1455.00	1573.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
8	CIVa	1573.00	1690.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
9	CIVb	1690.00	1767.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
10	CIVc	1767.00	1843.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
<b>Pay</b>							
1	CIIa	900.00	968.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
2	CIIb	968.00	1080.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
3	CIIIa	1080.00	1185.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
4	CIIb	1185.00	1277.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
5	CIIIc	1277.00	1400.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
6	CIIId	1400.00	1455.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
7	CIIIe	1455.00	1573.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
8	CIVa	1573.00	1690.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
9	CIVb	1690.00	1767.00	0.	≥ 0.1	≤ 0.6	≤ 0.3
10	CIVc	1767.00	1843.00	0.	≥ 0.1	≤ 0.6	≤ 0.3

Depth Units : m

Scale : 1 : 200

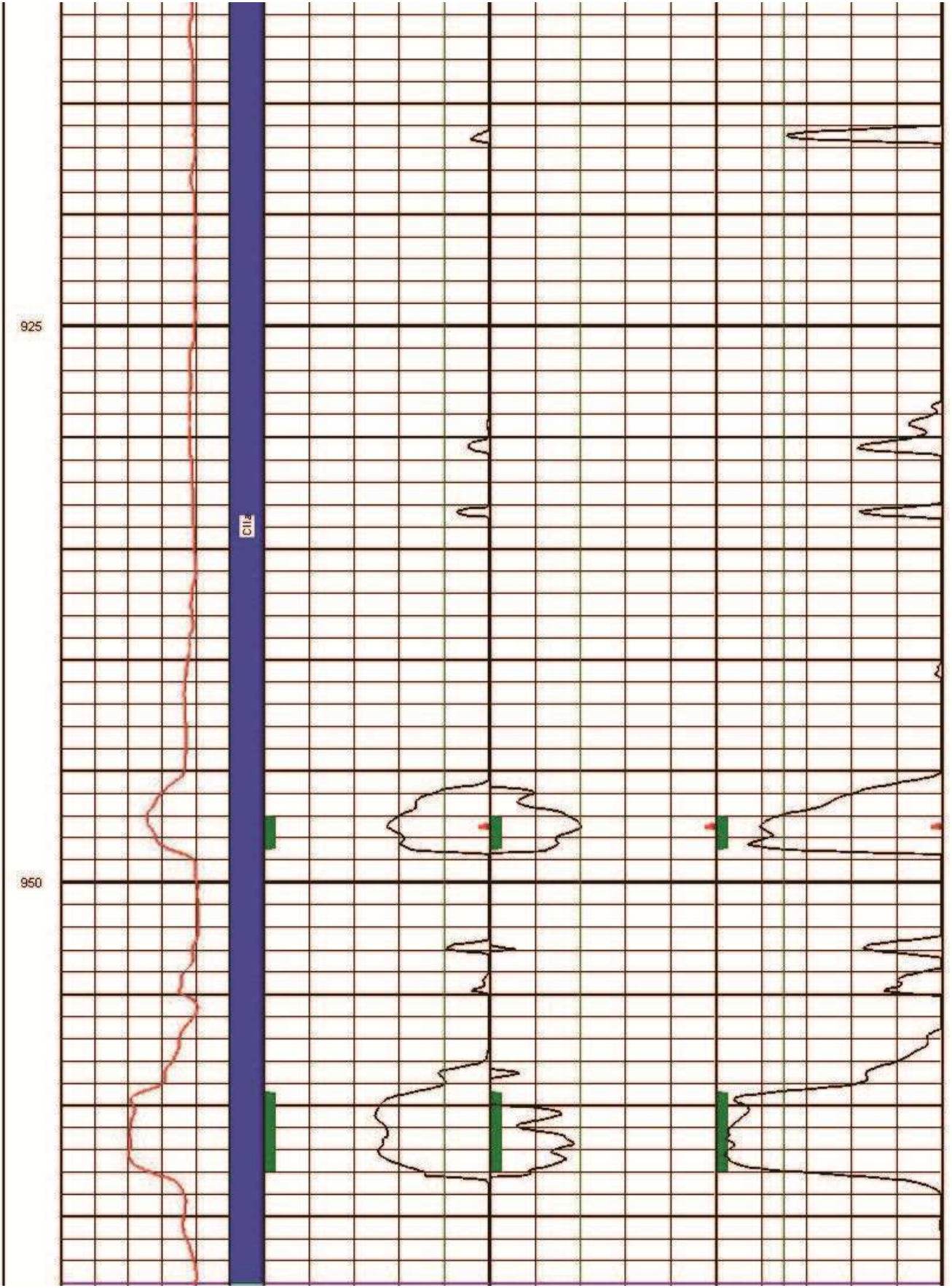
YPF.Ch.EA-779

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DEPTH (900.M - 1842.97M)

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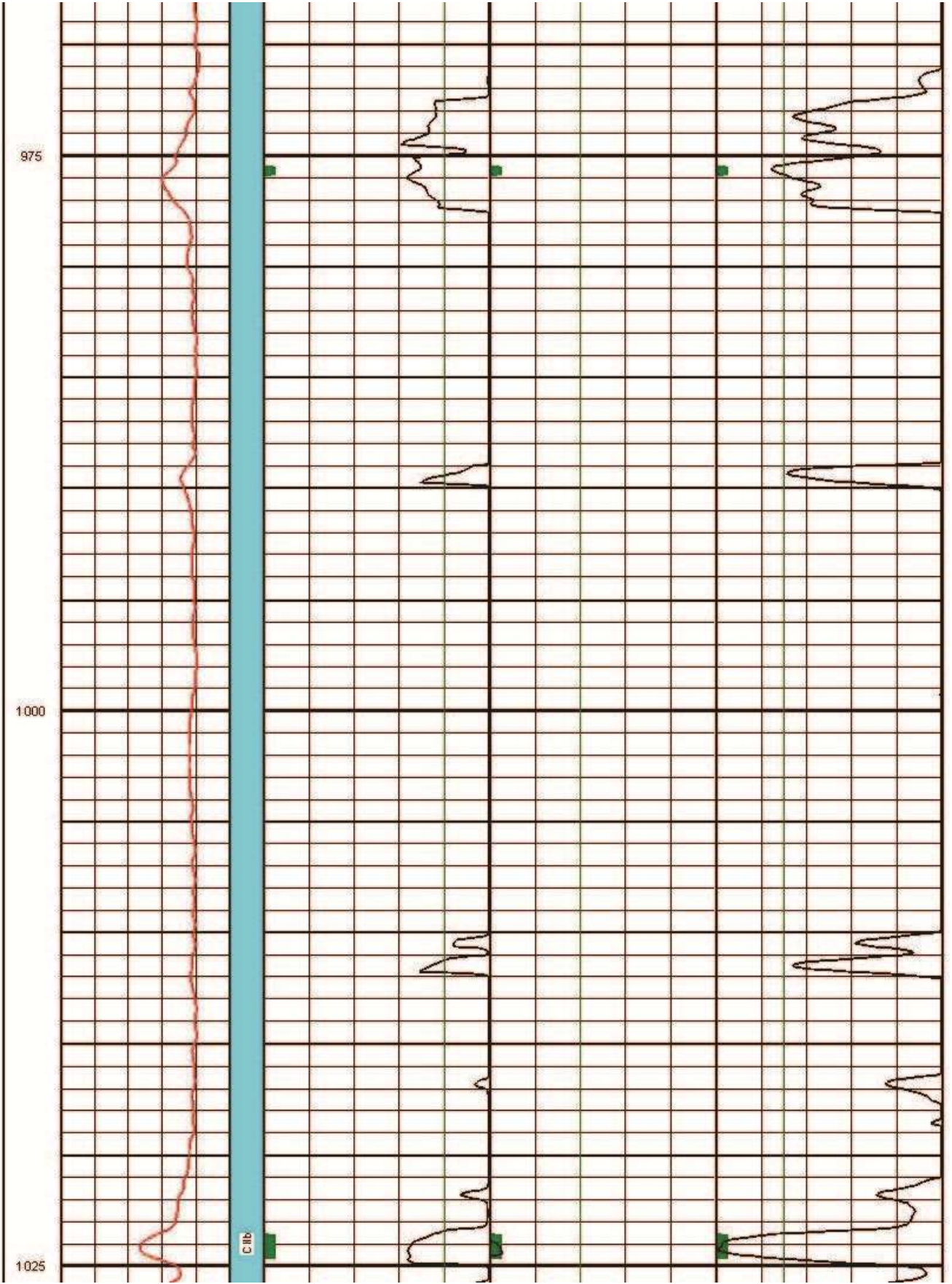


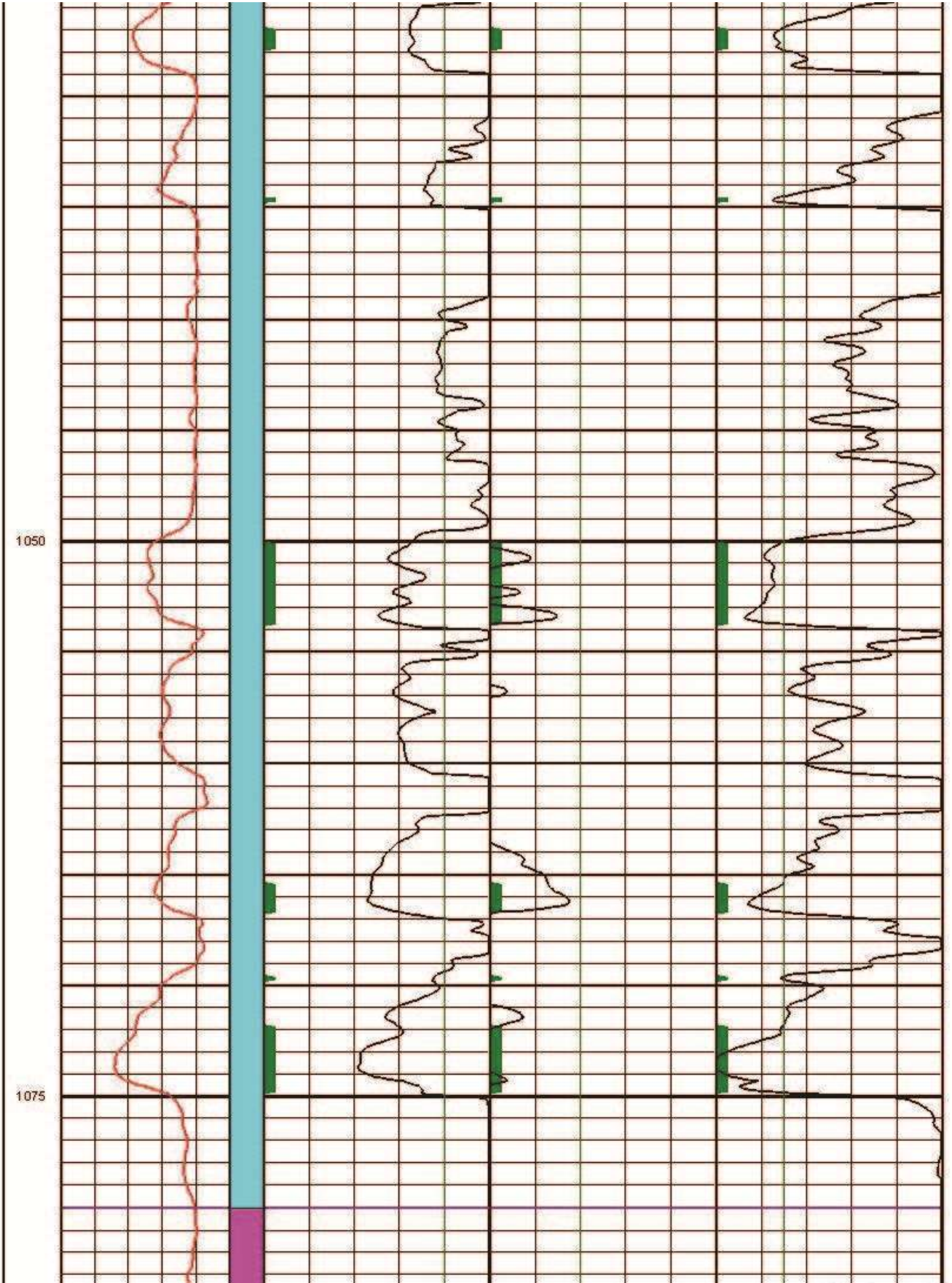
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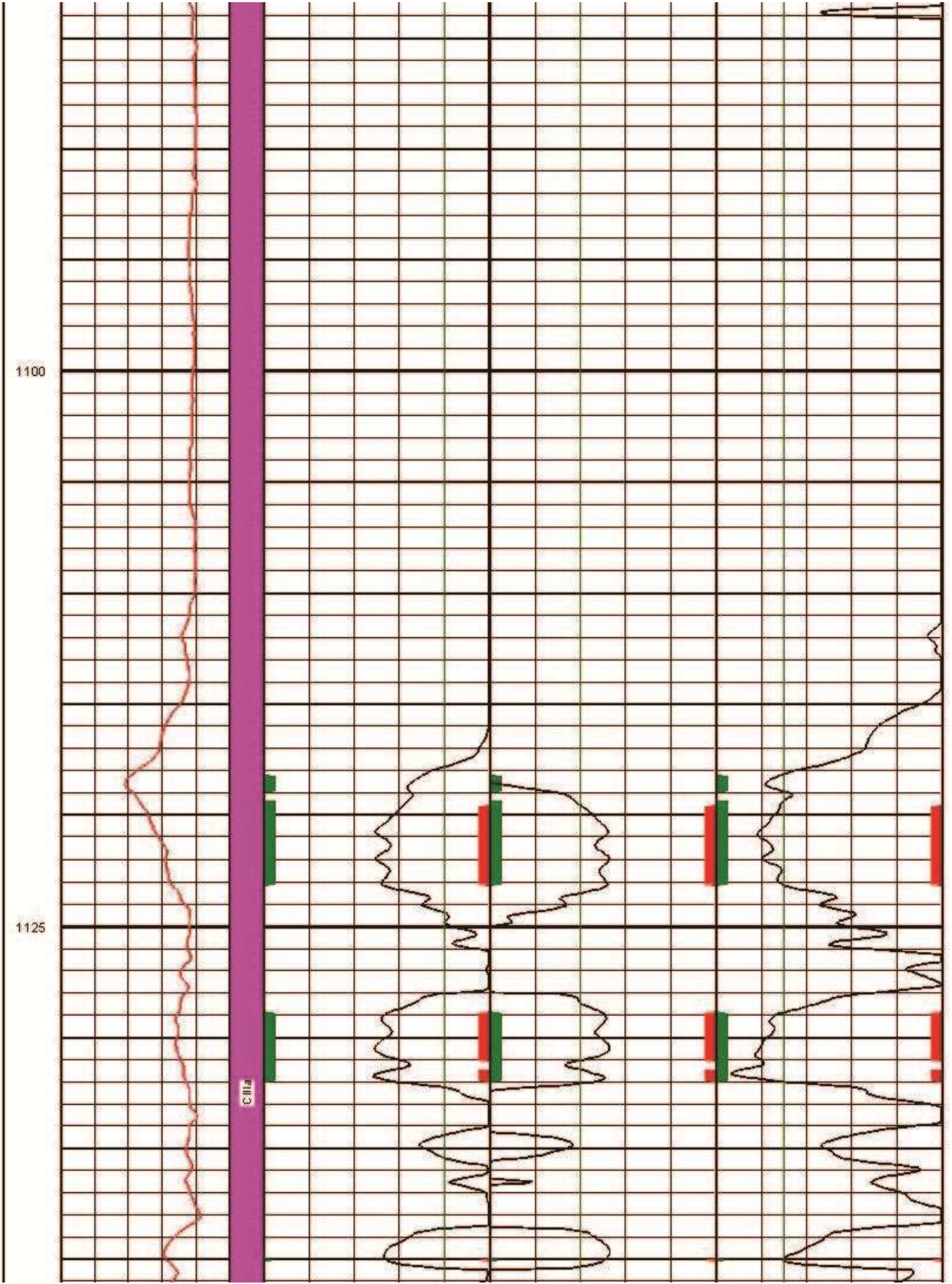
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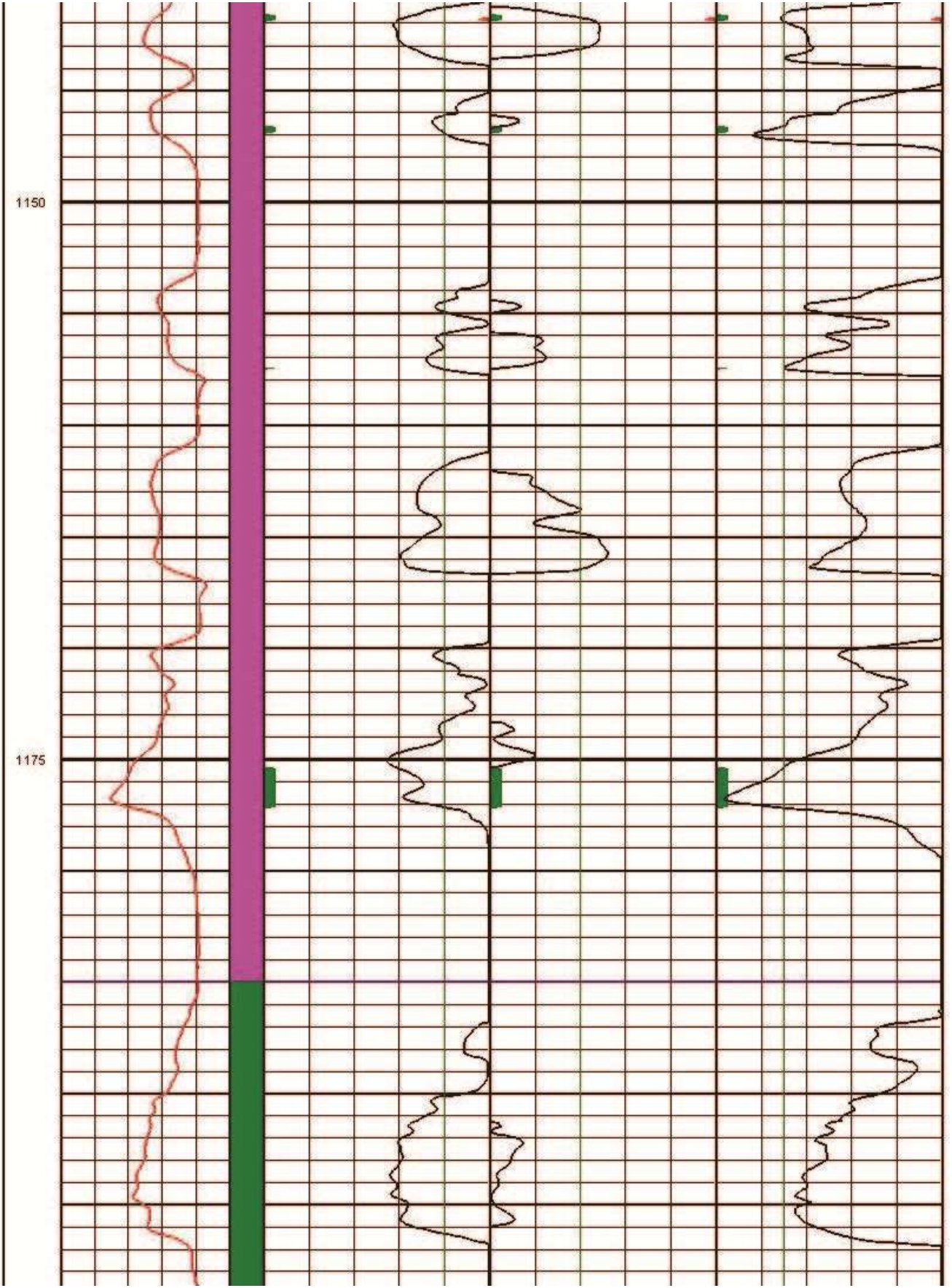




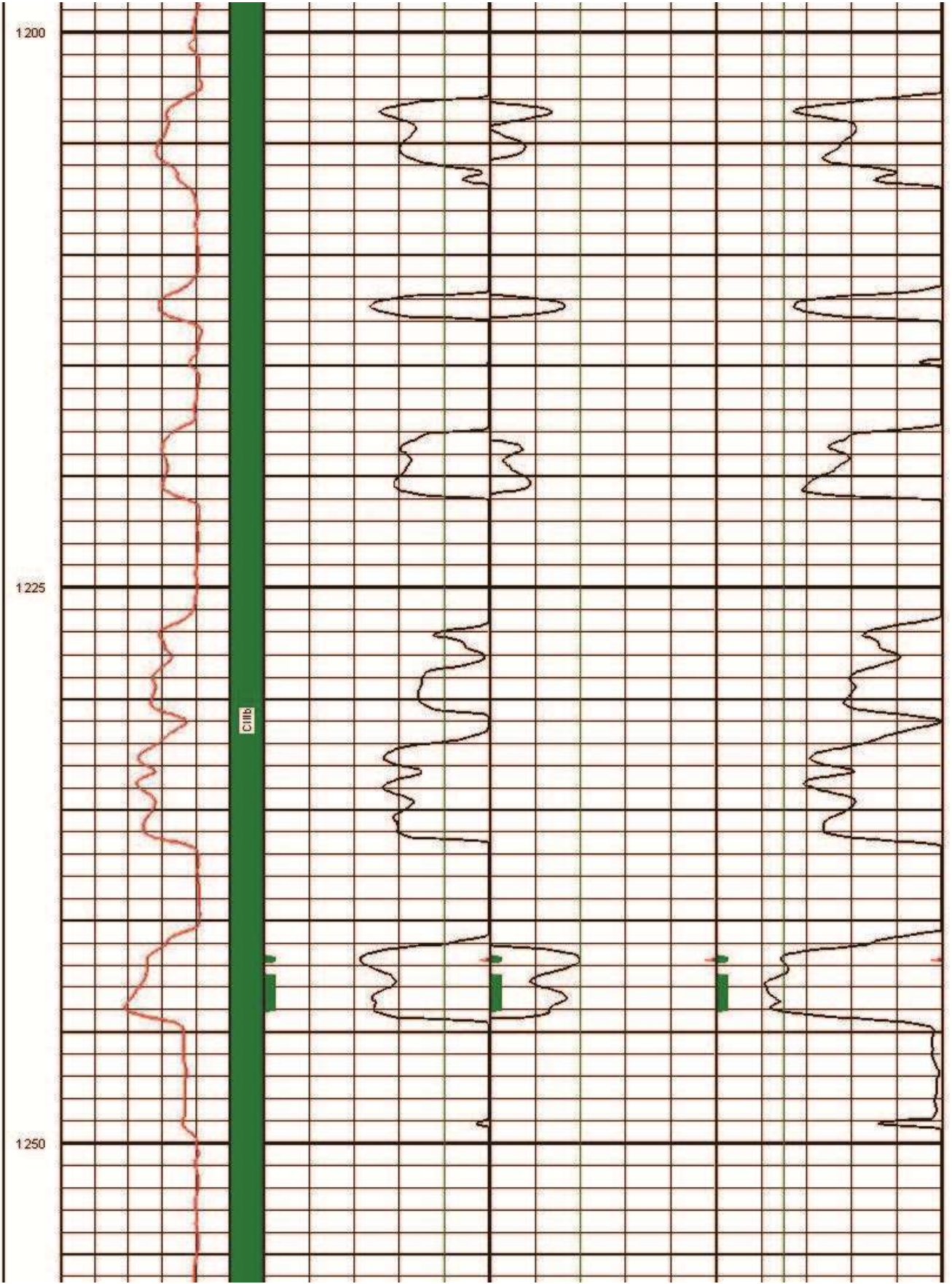


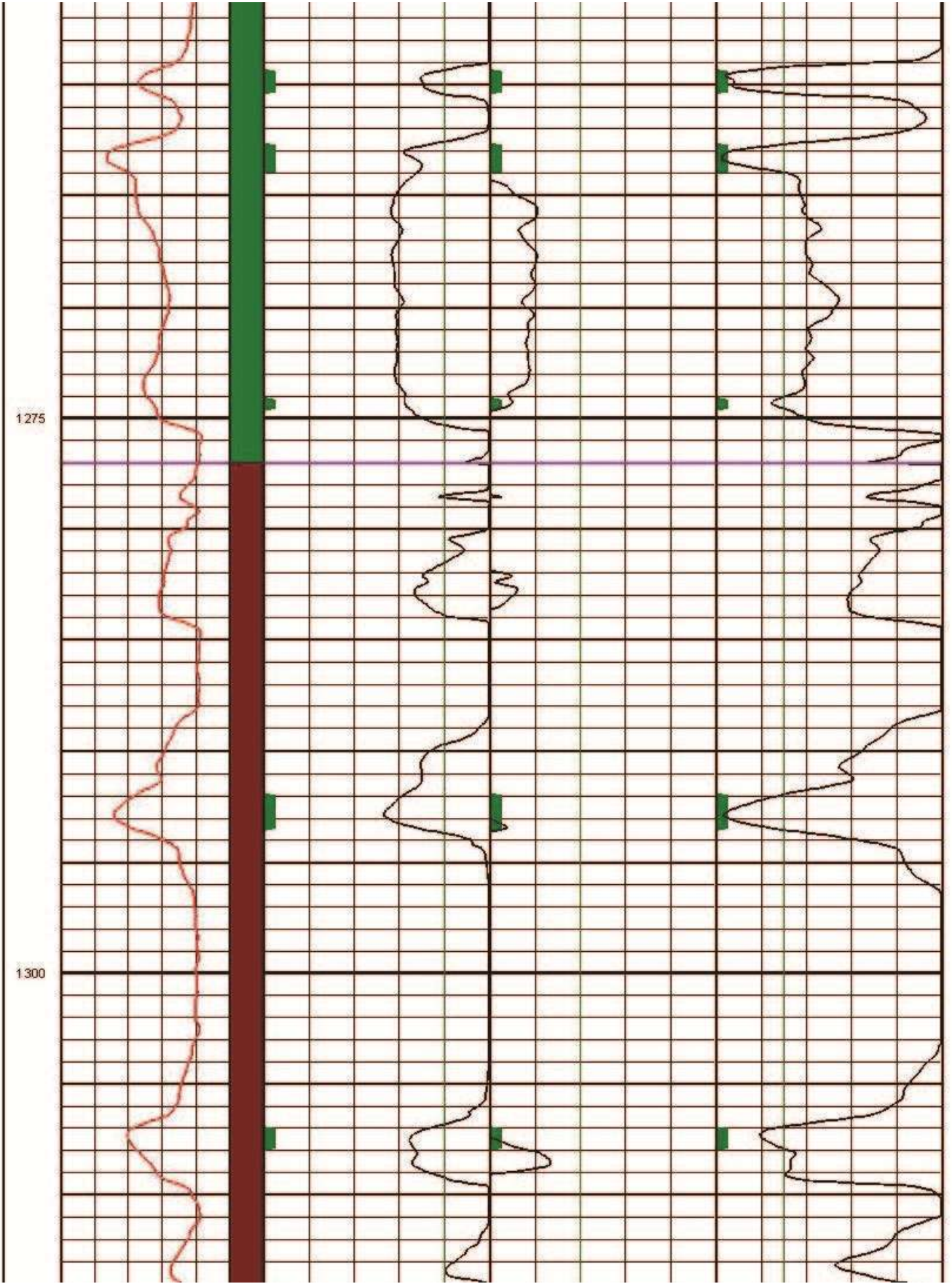




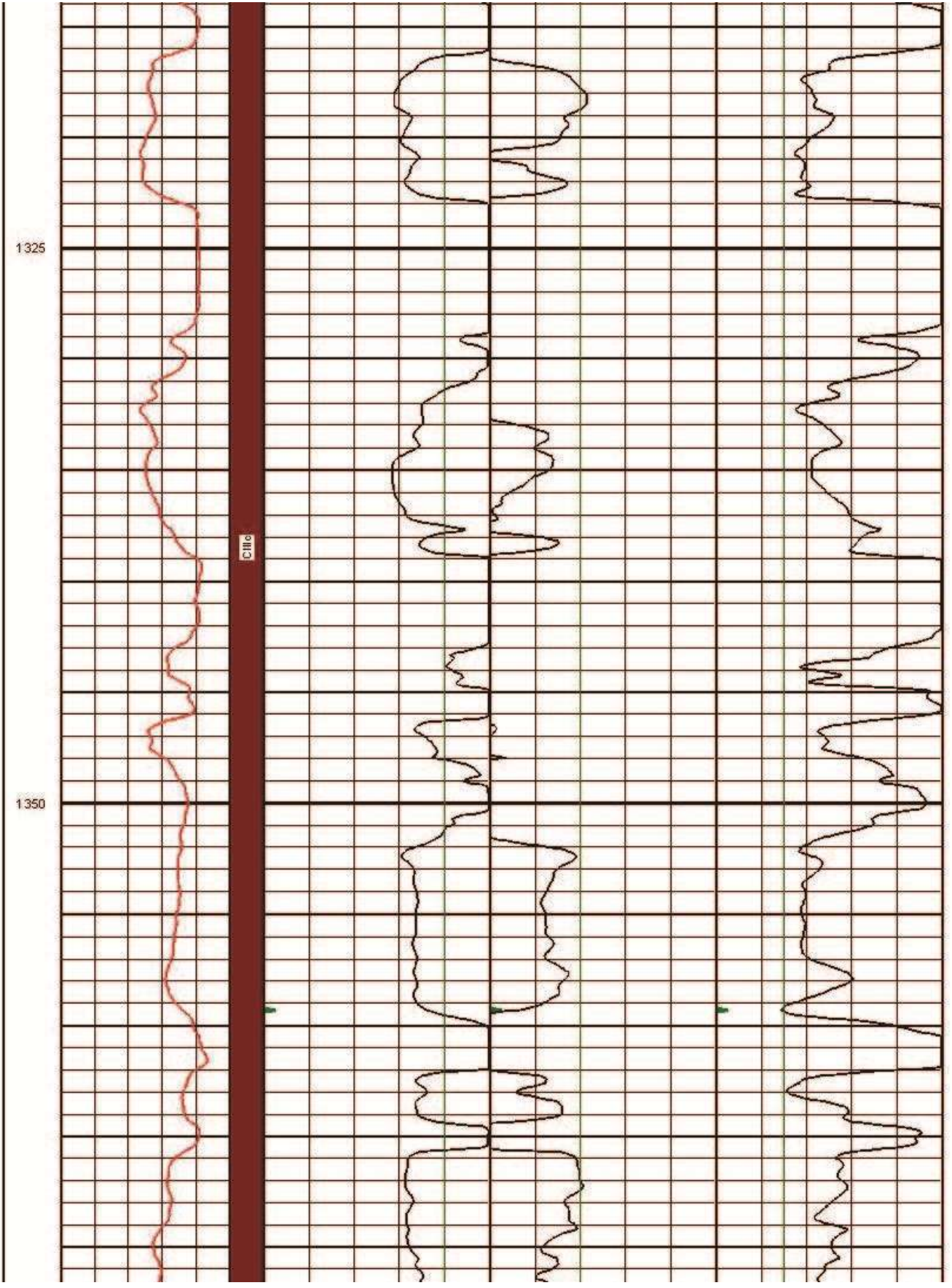


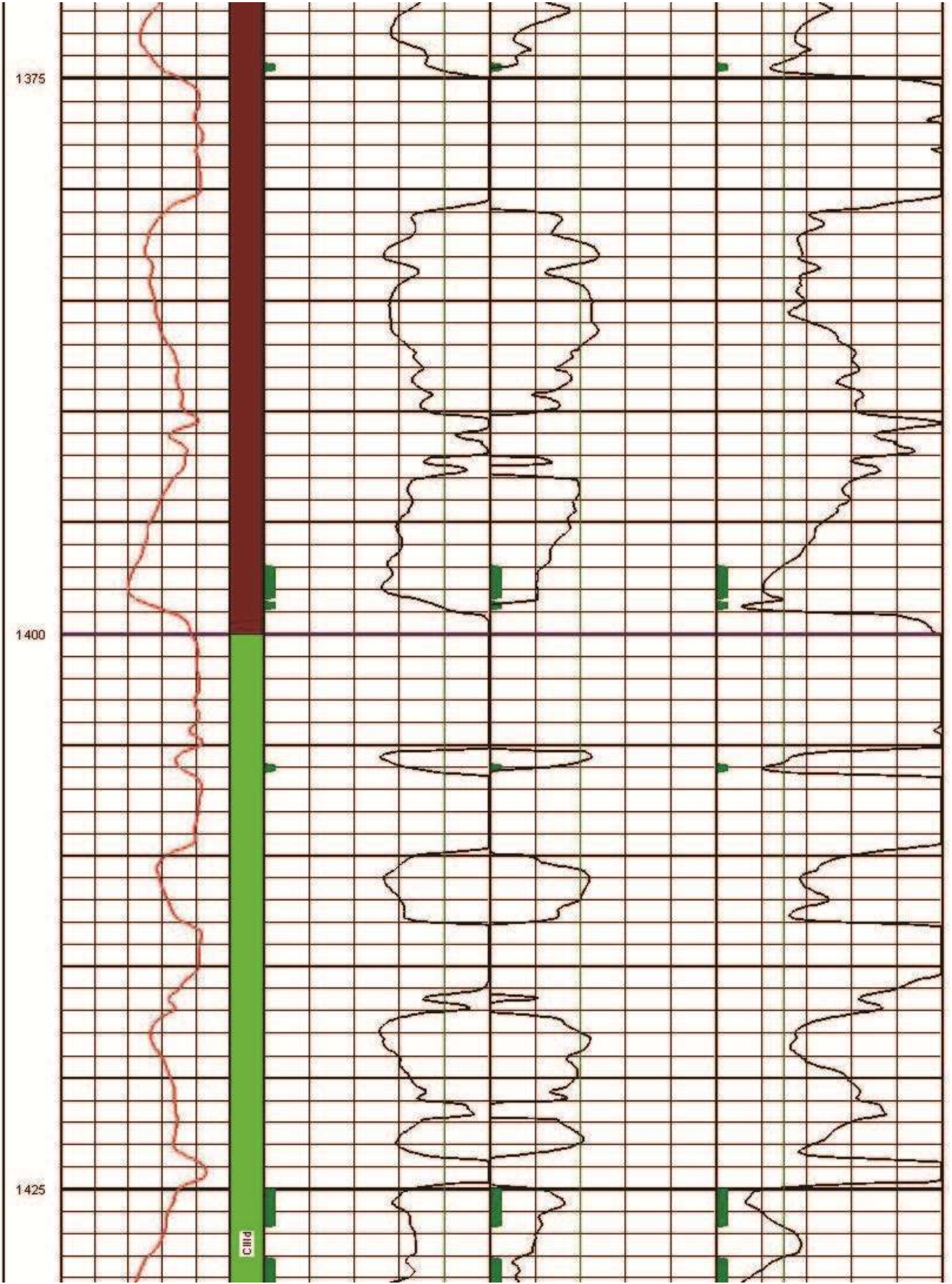




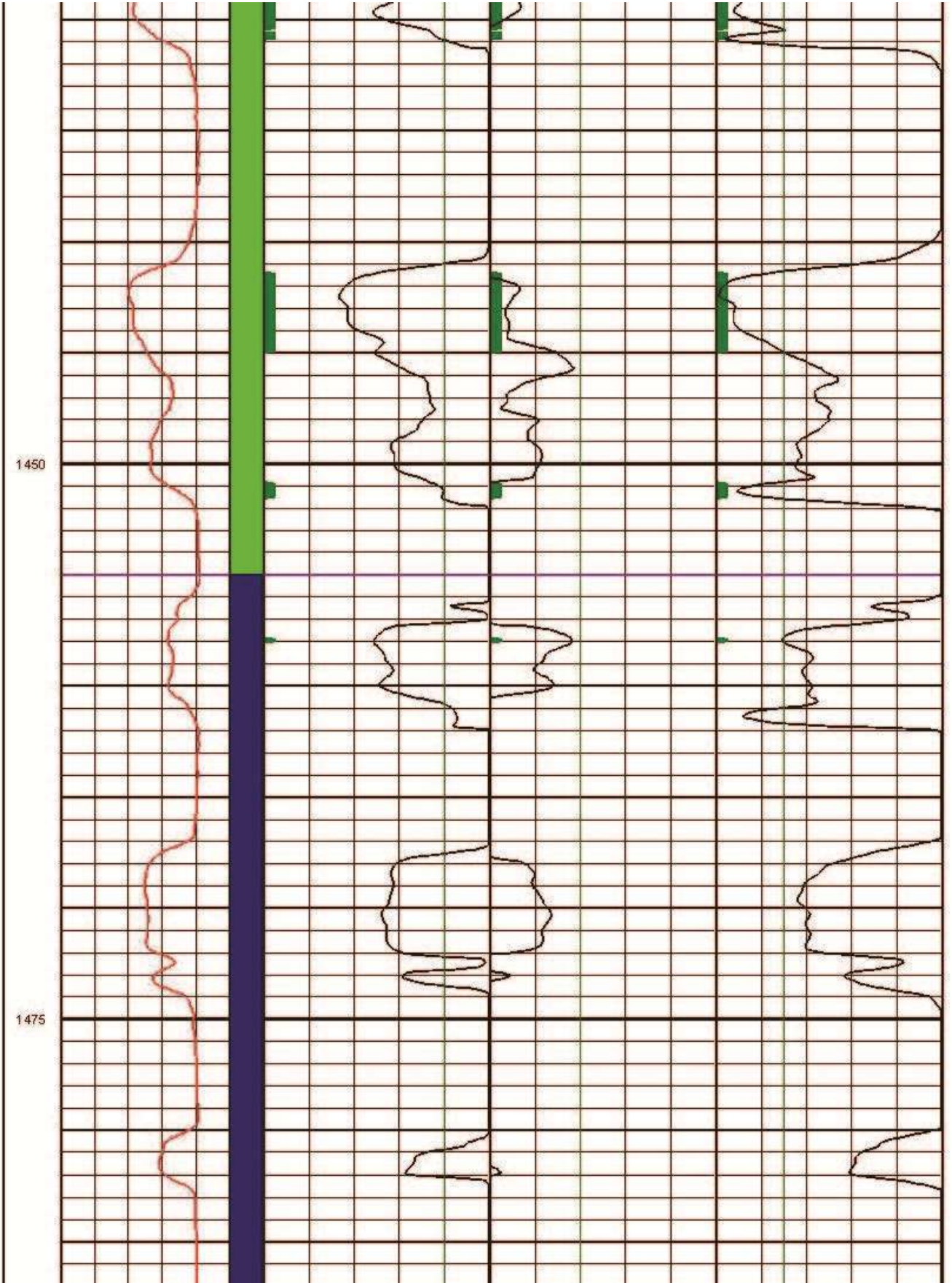


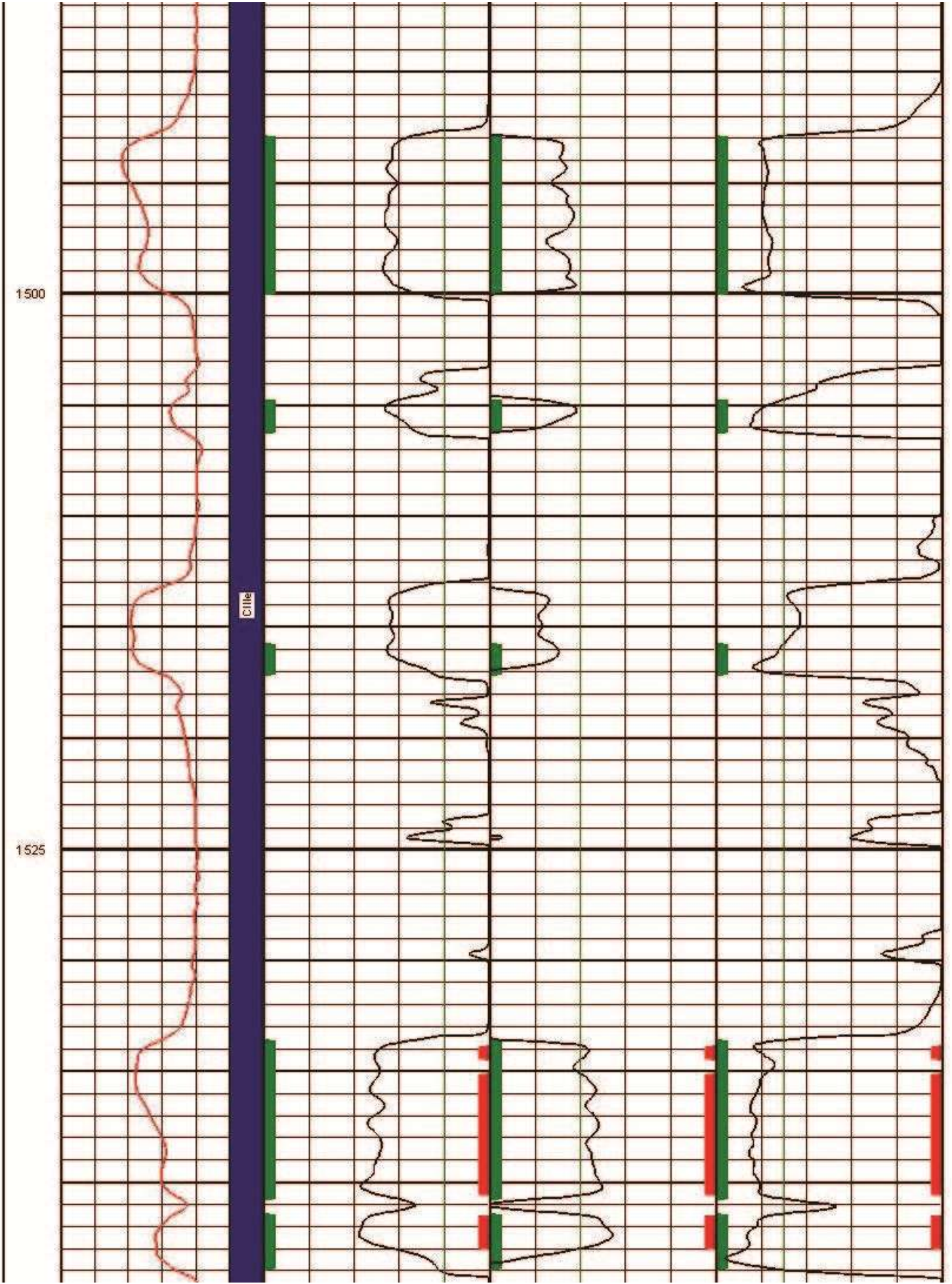




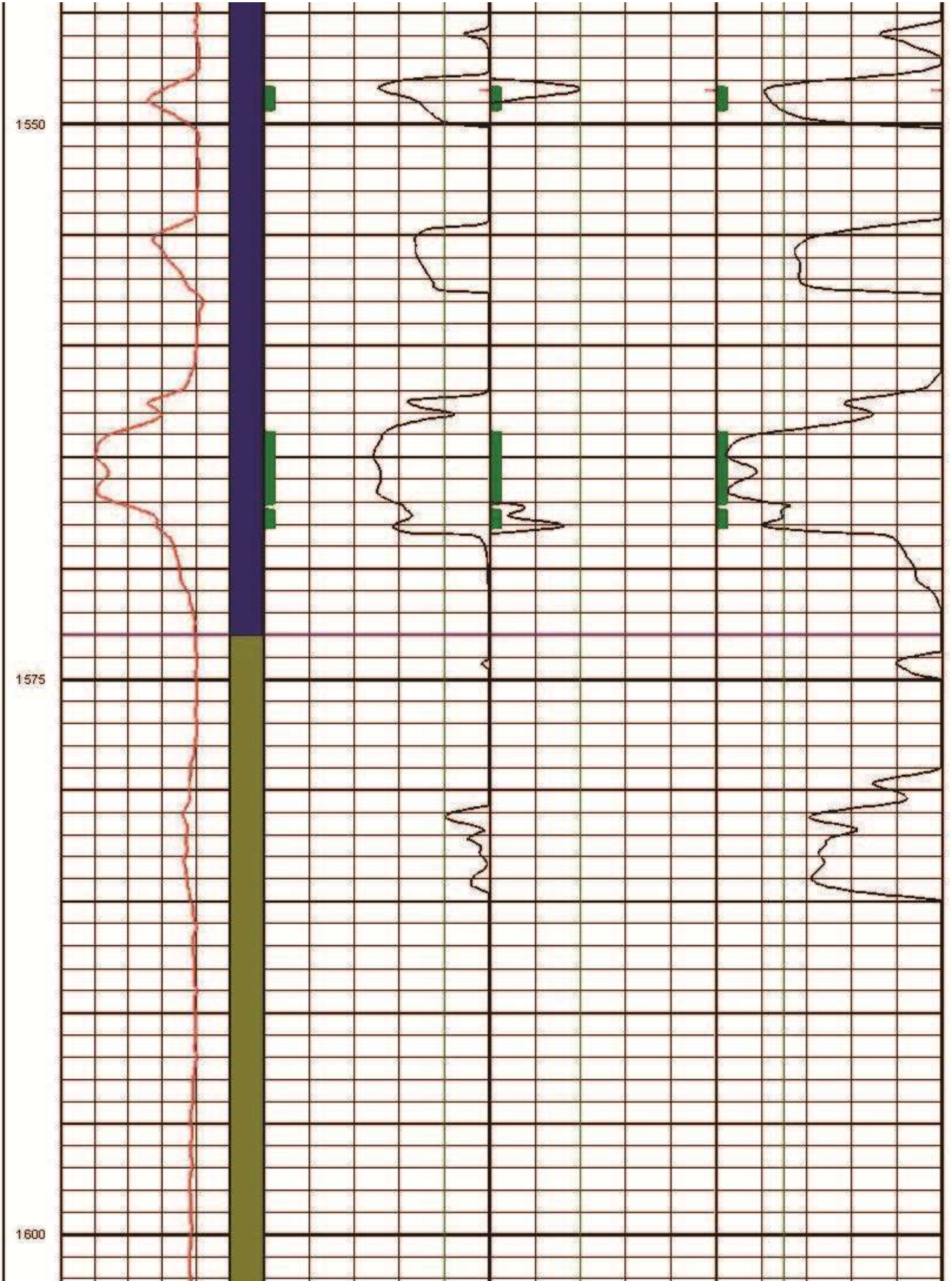


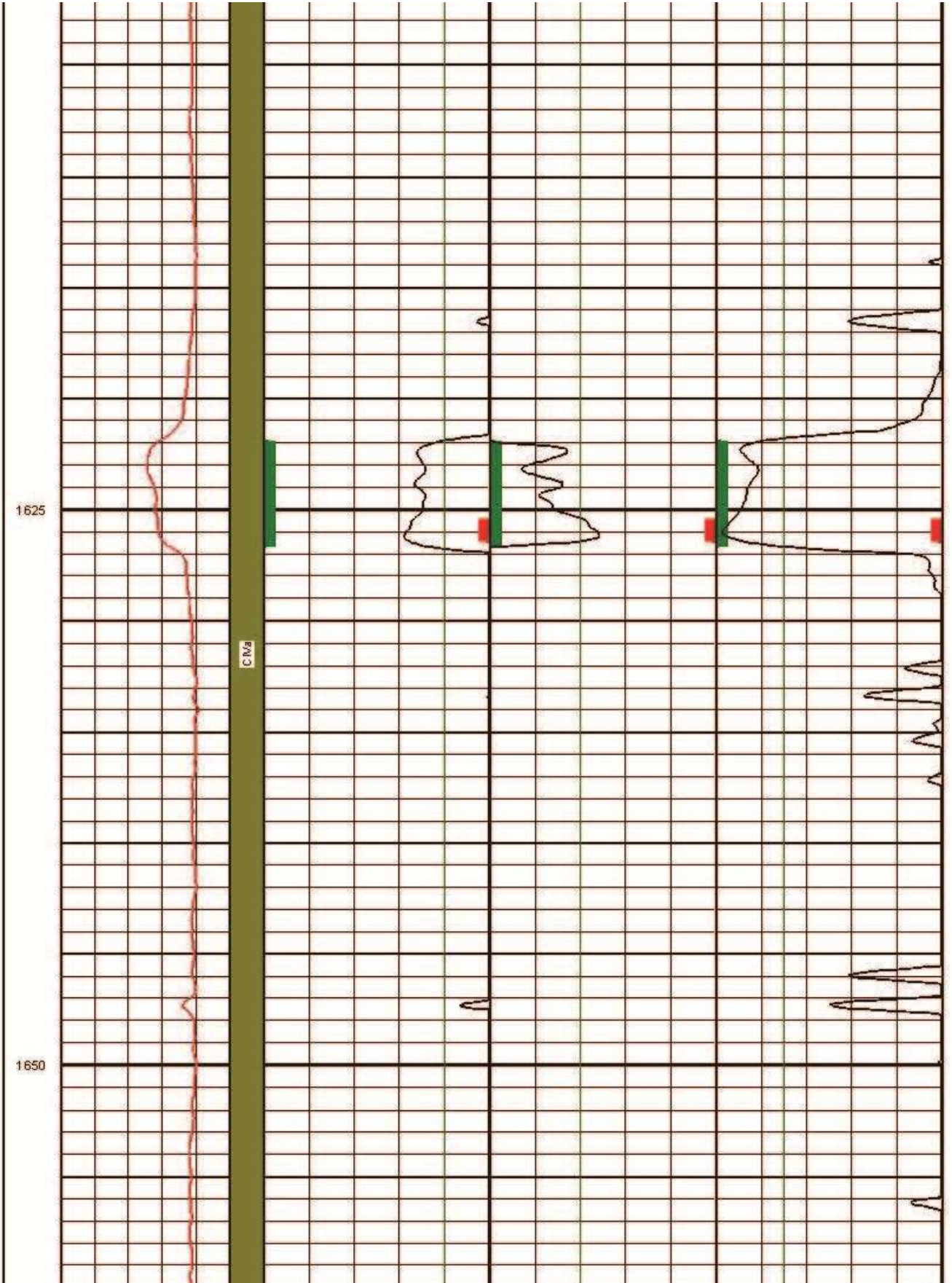




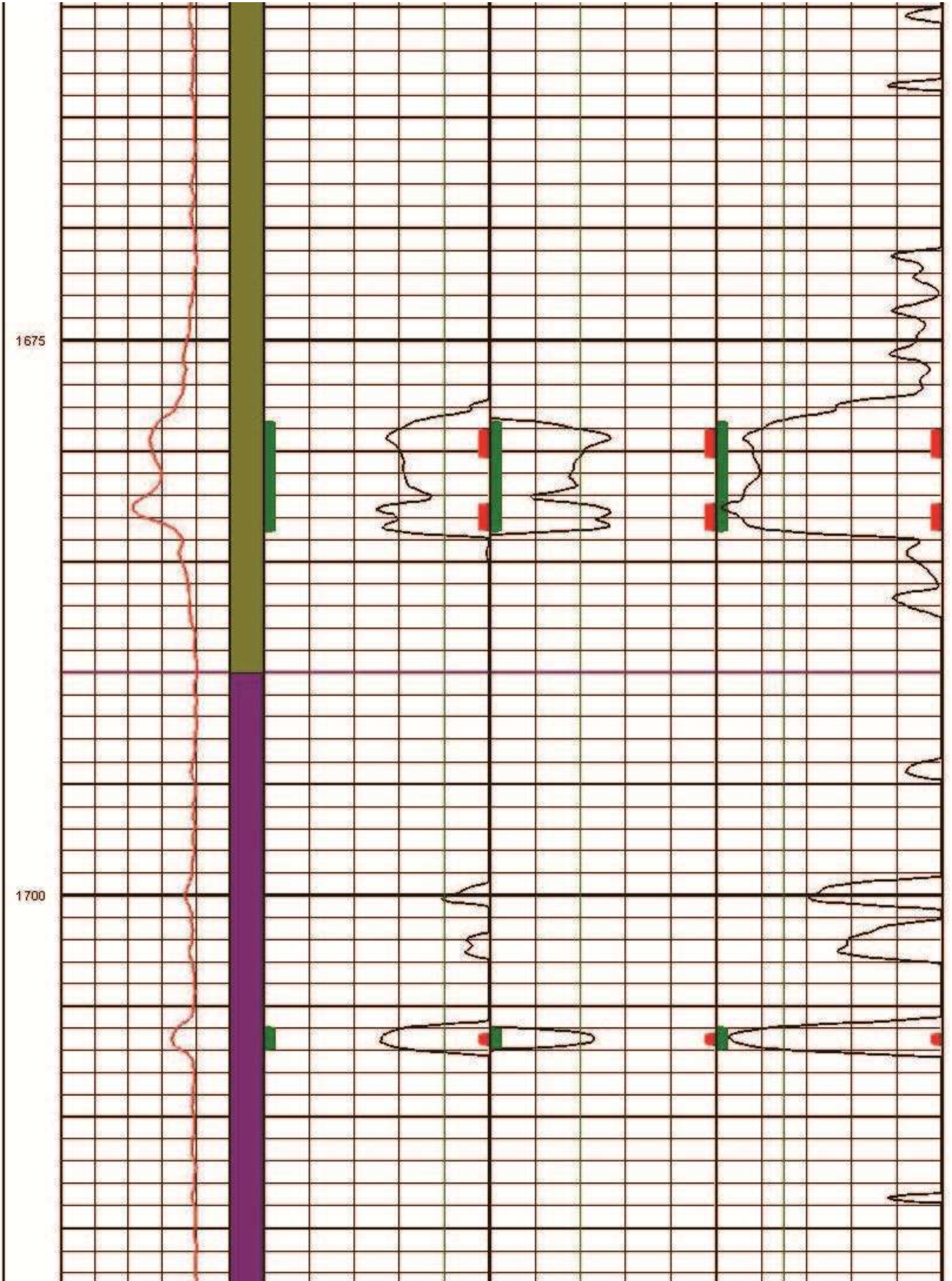


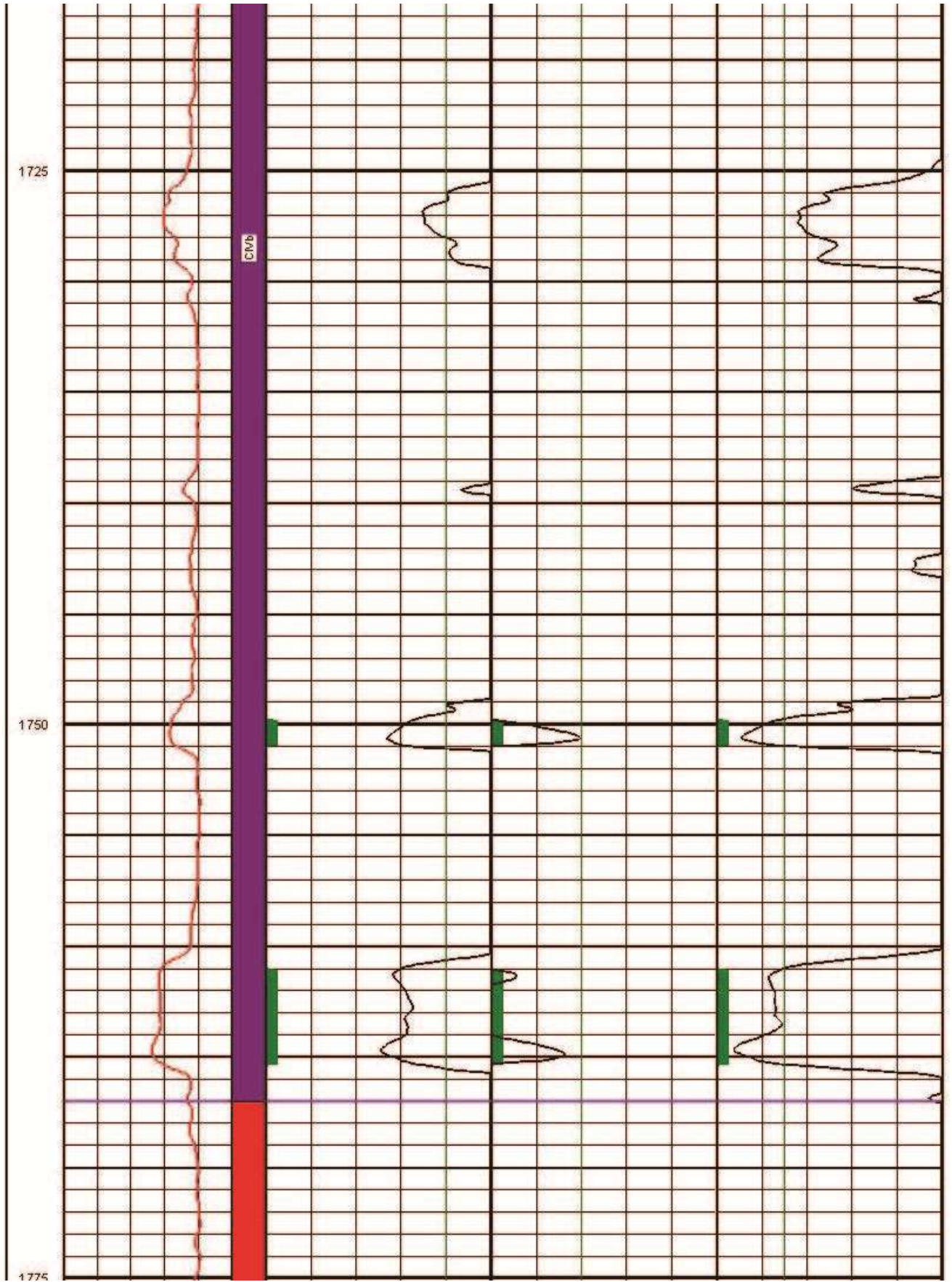




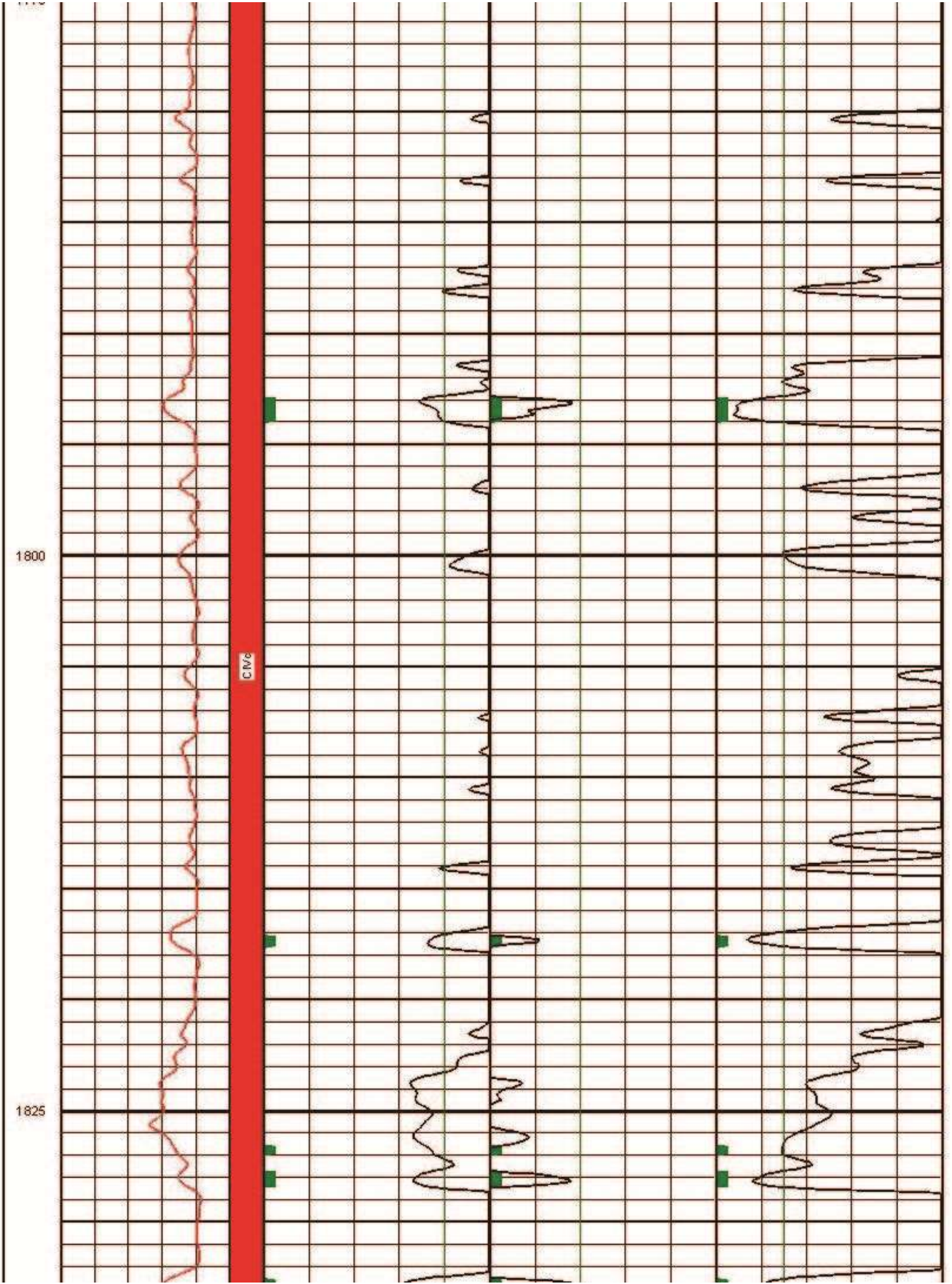


















### Petrophysic Interpretation

Company YPF S.A.  
Well Name YPF.Ch.EA-779  
Field EL ALBA  
Country ARGENTINA State CHUBUT

Location MANANTIALES BHER

Permanent Datum N.T. Elevation 665.80 Elevation: K.B. S/D  
Log Measured fro N.T. 0.00 Above Permanent Datum D.F. 670.55  
Drill Measured From N.T. G.L. 665.80

Date	9 OCT 2010	
Run ID	1	2
Depth - Driller	1851.0	
Depth - Logger	1851.0	
Btm Log Interval	1850.1	
Top Log Interval	387.0	
Casing Driller		
Casing - Logger		
Bit Size	8.75	
Type of Fluid in Hole	POLIMERICO	
Mud Weight	11.70	
Mud pH	9.0	
Source: Rm	ULTIMA CIRCLADA	
Rm	2.38	

Rmf	2.00	
Rmc	2.68	
Source: Rmf	MEDICION	
RM BHT	1.16	
Time End Circulation		
Time at Bottom		
Max Rec Temp	158.0	

Procesado Octubre 2010

#### CLAY VOLUME PARAMETERS

Top	SP Clean	Res Clean
Bottom	SP Clay	Res Clay
900.	-41.	16.
968.	-7.	2.68
968.	-47.8	9.82
1080.	-6.	1.63
1080.	-52.	21.9
1185.	-5.	4.08
1185.	-54.	8.98
1277.	-5.	2.12
1277.	-50.	20.2
1400.	-1.	4.19
1400.	-40.	12.9
1455.	-2.	2.98
1455.	-62.	30.8
1573.	-2.	2.54
1573.	-38.	27.
1690.	-4.	1.72
1690.	-29.	19.7
1767.	-5.	2.54
1767.	-55.	27.
1851.	-5.	2.48

#### POROSITY WATER SATURATION PARAMETERS

Top	Phi Model	Rw	Rmf	"a"	"a"	Rho MC	Rho Fluid	Son Clay	Son Fluid	Son MC	Son Sp.	Rho	Phi Dry Clay
Bottom	Sw eq.	Rw temp.	Rmf temp.	"a"	CBM ?	Rho Mat	Rho Clay	Son Mat	Son MC	Son Sp.	Rho temp.	Phi Clay	
900.	Density	0.426	2.	1.98	1.	0.5	Calc.	122.	122.	122.	Hyllise	0.1	2.51
968.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.3	55.5	228.	122.	Hyllise	0.1	2.51
968.	Density	0.423	2.	1.98	1.	0.5	Calc.	124.	124.	124.	Hyllise	0.1	2.51
1080.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.31	55.5	228.	124.	Hyllise	0.1	2.39
1080.	Density	0.553	2.	1.98	1.	0.5	Calc.	130.	130.	130.	Hyllise	0.1	2.39
1185.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.25	55.5	228.	124.	Hyllise	0.1	2.41
1185.	Density	0.302	2.	1.98	1.	0.5	Calc.	125.	125.	125.	Hyllise	0.1	2.41
1277.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.28	55.5	228.	124.	Hyllise	0.1	2.51
1277.	Density	0.414	2.	1.98	1.	0.5	Calc.	114.	114.	114.	Hyllise	0.1	2.51
1400.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.4	55.5	228.	124.	Hyllise	0.1	2.45
1400.	Density	0.32	2.	1.98	1.	0.5	Calc.	124.	124.	124.	Hyllise	0.1	2.45
1455.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.31	55.5	228.	124.	Hyllise	0.1	2.53
1455.	Density	0.515	2.	1.98	1.	0.5	Calc.	115.	115.	115.	Hyllise	0.1	2.53
1573.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.43	55.5	228.	124.	Hyllise	0.1	2.42
1573.	Sonic	0.272	2.	1.98	1.	0.5	Calc.	116.	116.	116.	Hyllise	0.1	2.42
1690.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.28	55.5	228.	124.	Hyllise	0.1	2.41
1690.	Sonic	0.306	2.	1.98	1.	0.5	Calc.	122.	122.	122.	Hyllise	0.1	2.41
1767.	Dual w/bbe Temp	63.1	2.	1.98	1.	2.65	2.38	55.5	228.	124.	Hyllise	0.1	2.41



1767. Sonic 0.199 2. 2. 1. 0.9 Calc. 185. 189. 0.1 2.29  
 1821. Dual well log Temp 63.1 2. 30 2.63 2.34 53.3 226.

- SP : Spontaneous Potential
- RWAC : Apparent Water Resistivity
- CAL : Caliper
- PE : Photoelectric Factor
- VCL : Clay Volume
- MER1 : Array Resistivity (2 ft) - DOI 10 inch
- MER2 : Array Resistivity (2 ft) - DOI 20 inch
- MER3 : Array Resistivity (2 ft) - DOI 30 inch
- MER6 : Array Resistivity (2 ft) - DOI 60 inch
- MER9 : BA, Array Resistivity (2 ft) - DOI 90 inch
- PRZC : Density Porosity
- CNCF : Field Normalised Compensated Neutron porosity
- PORA : Acoustic Porosity
- RHE : Effective Porosity
- SW : Water Saturation
- RHT : Total Porosity
- BWV : Bulk Volume water (Phi x SW)
- VWCL : Volume wet Clay
- VCDAL : Volume Coal
- VSALT : Volume Salt
- KIFlag : Resistivity Ratio

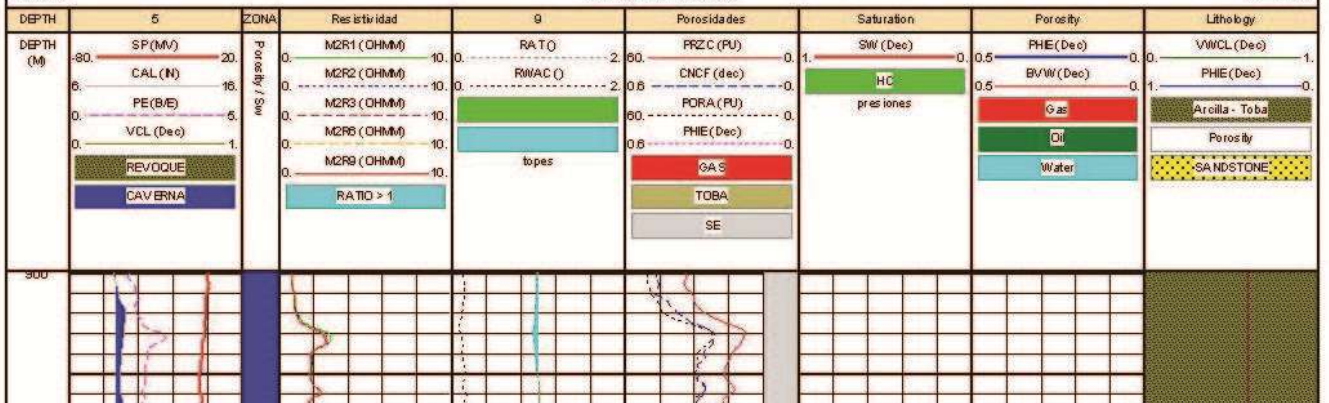
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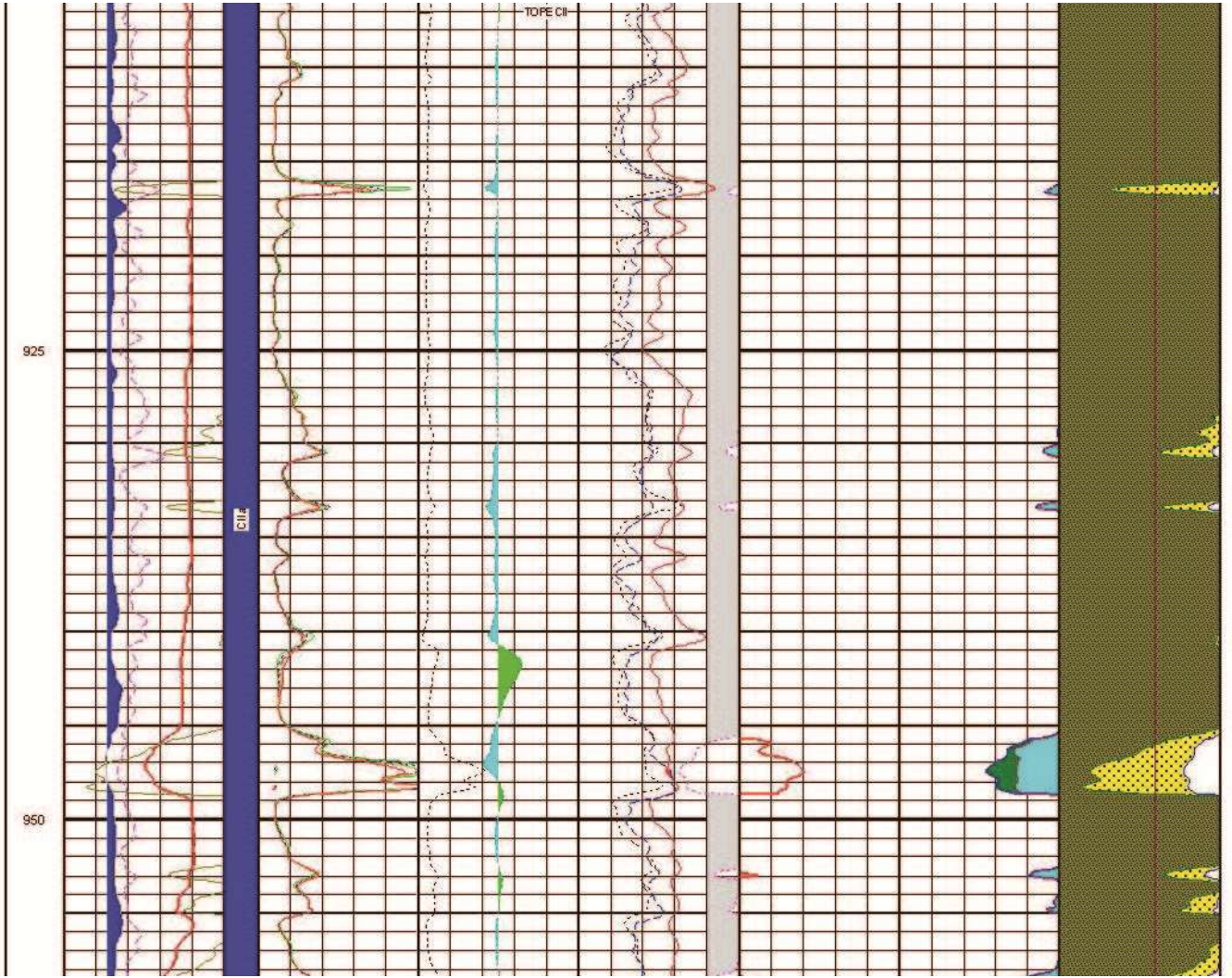
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P# : 227510

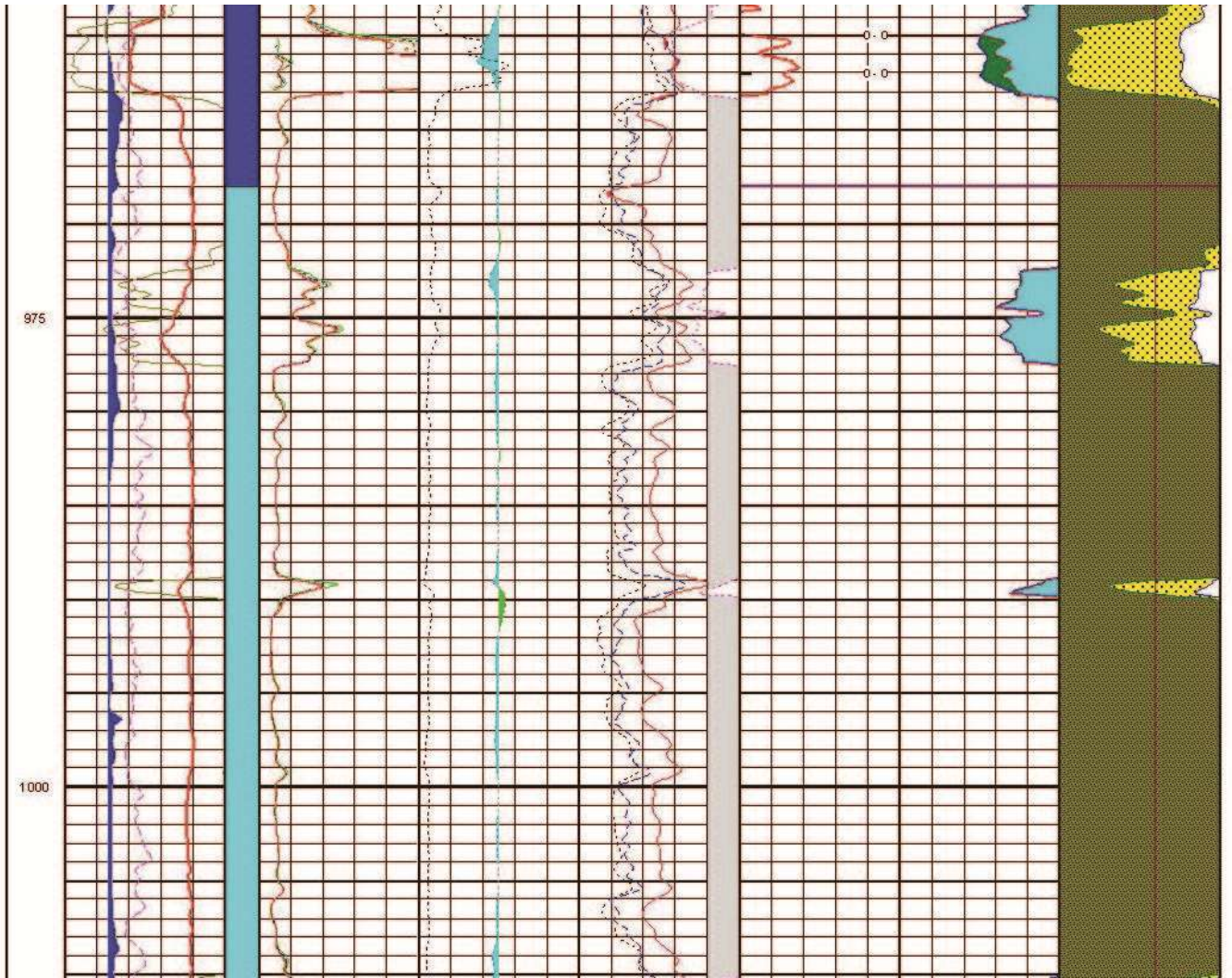
DEPTH (900.M - 1846.02M)

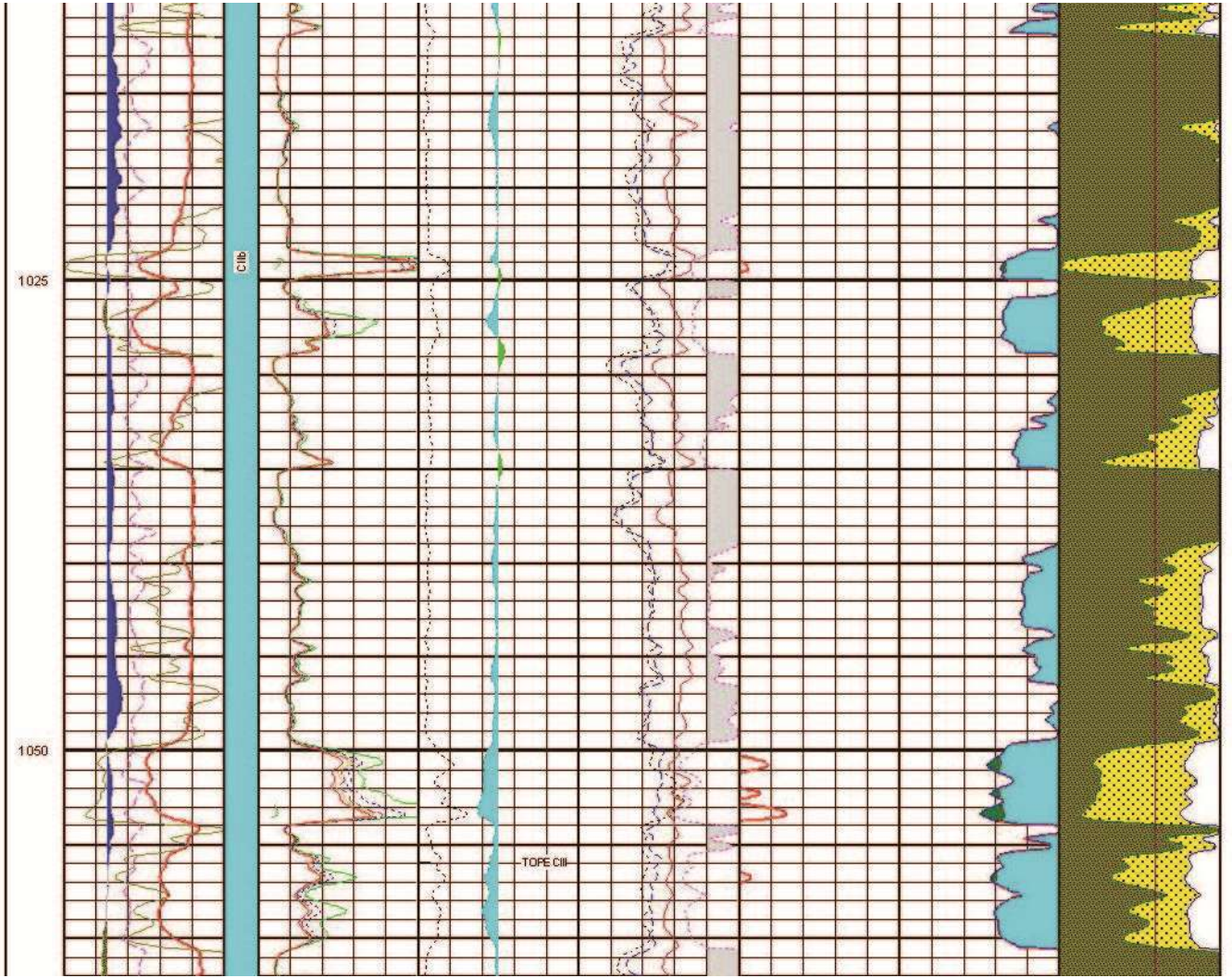
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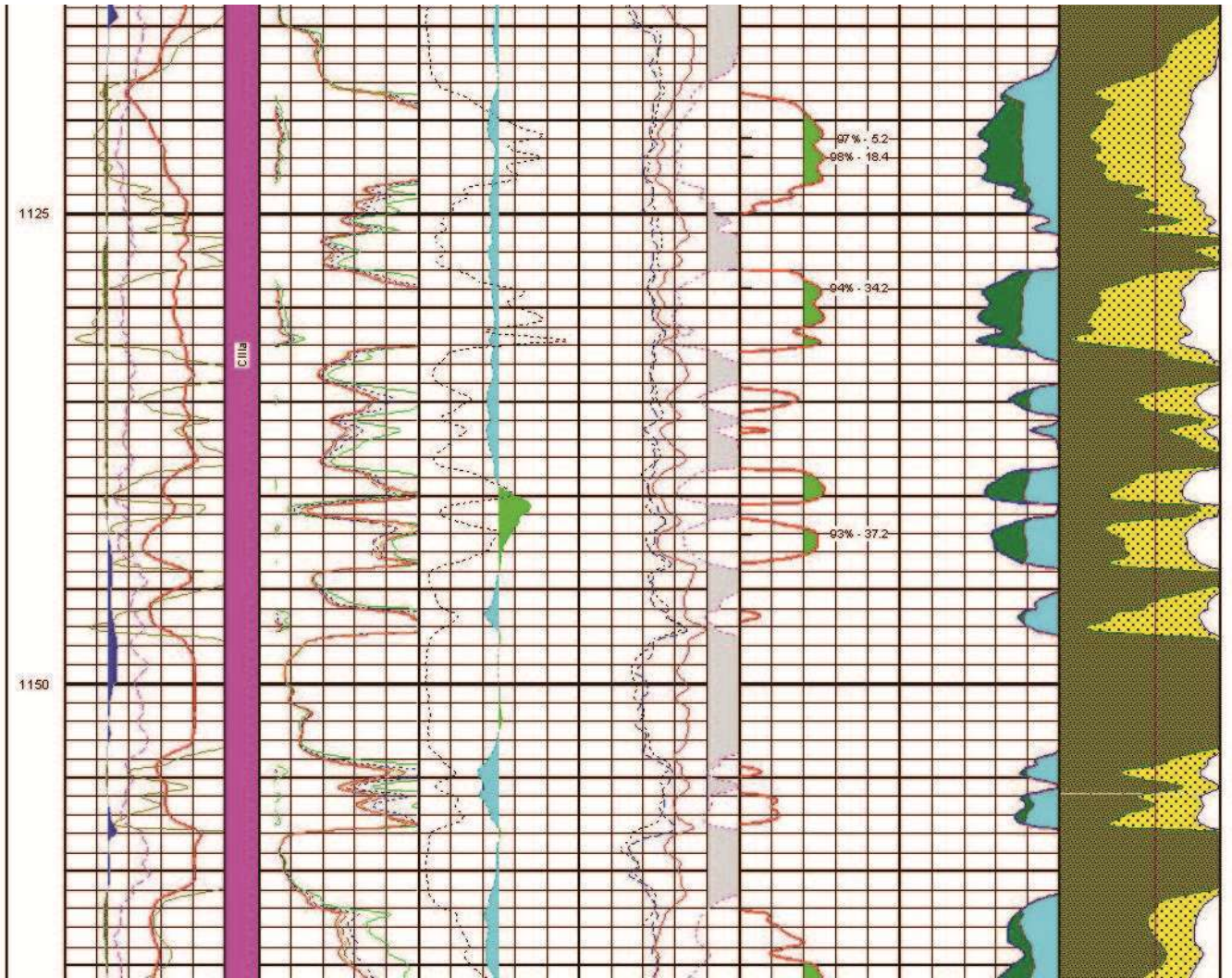




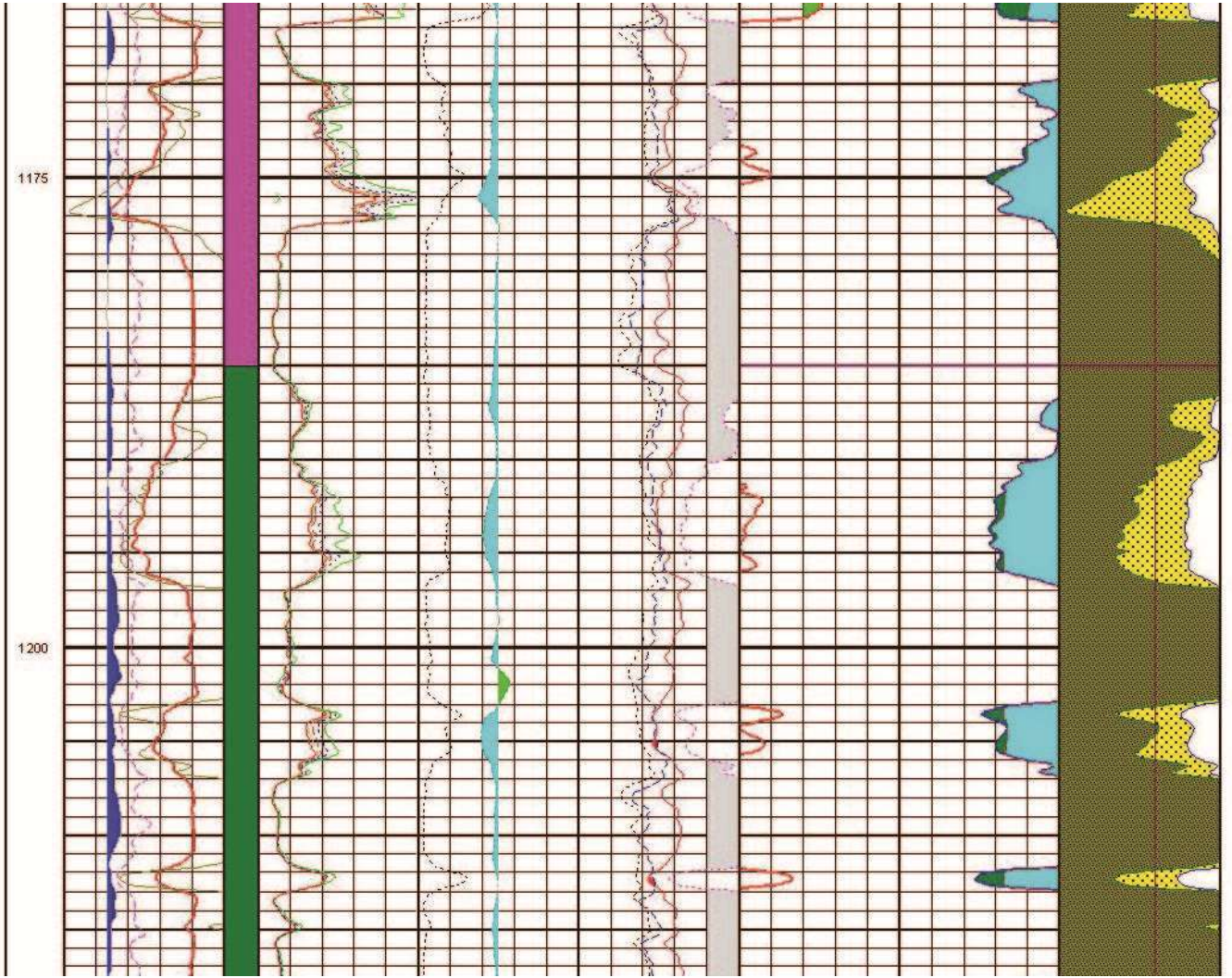


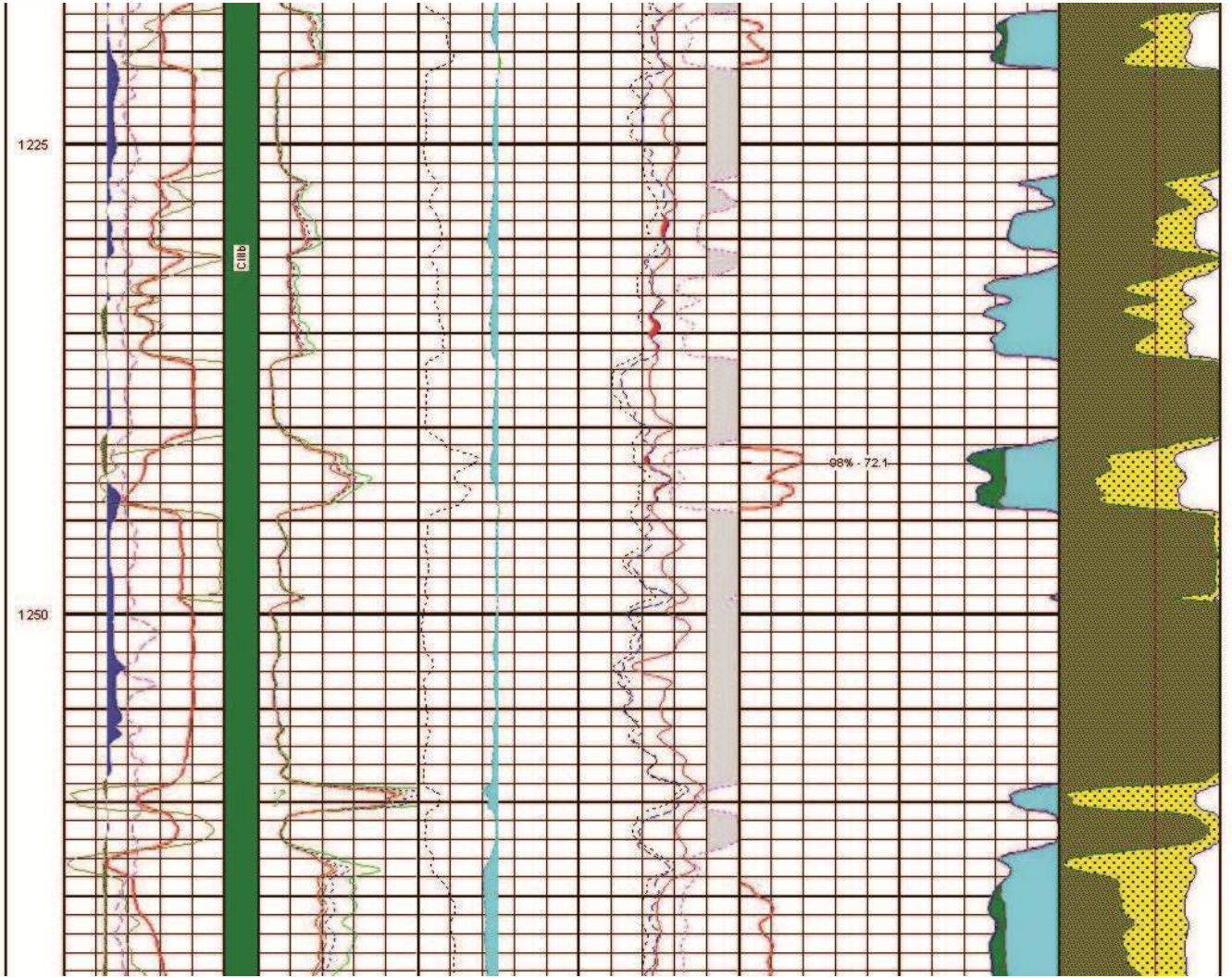




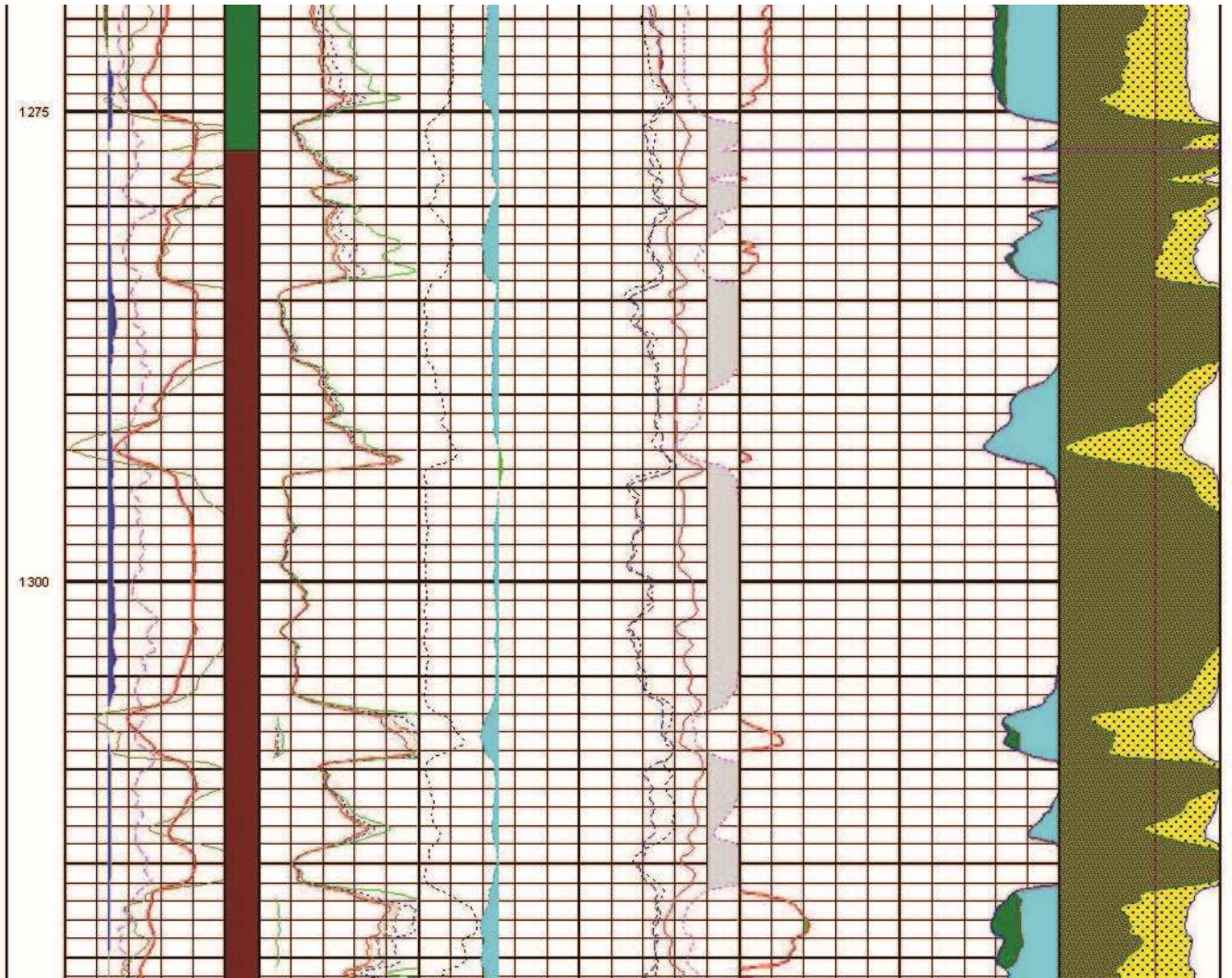


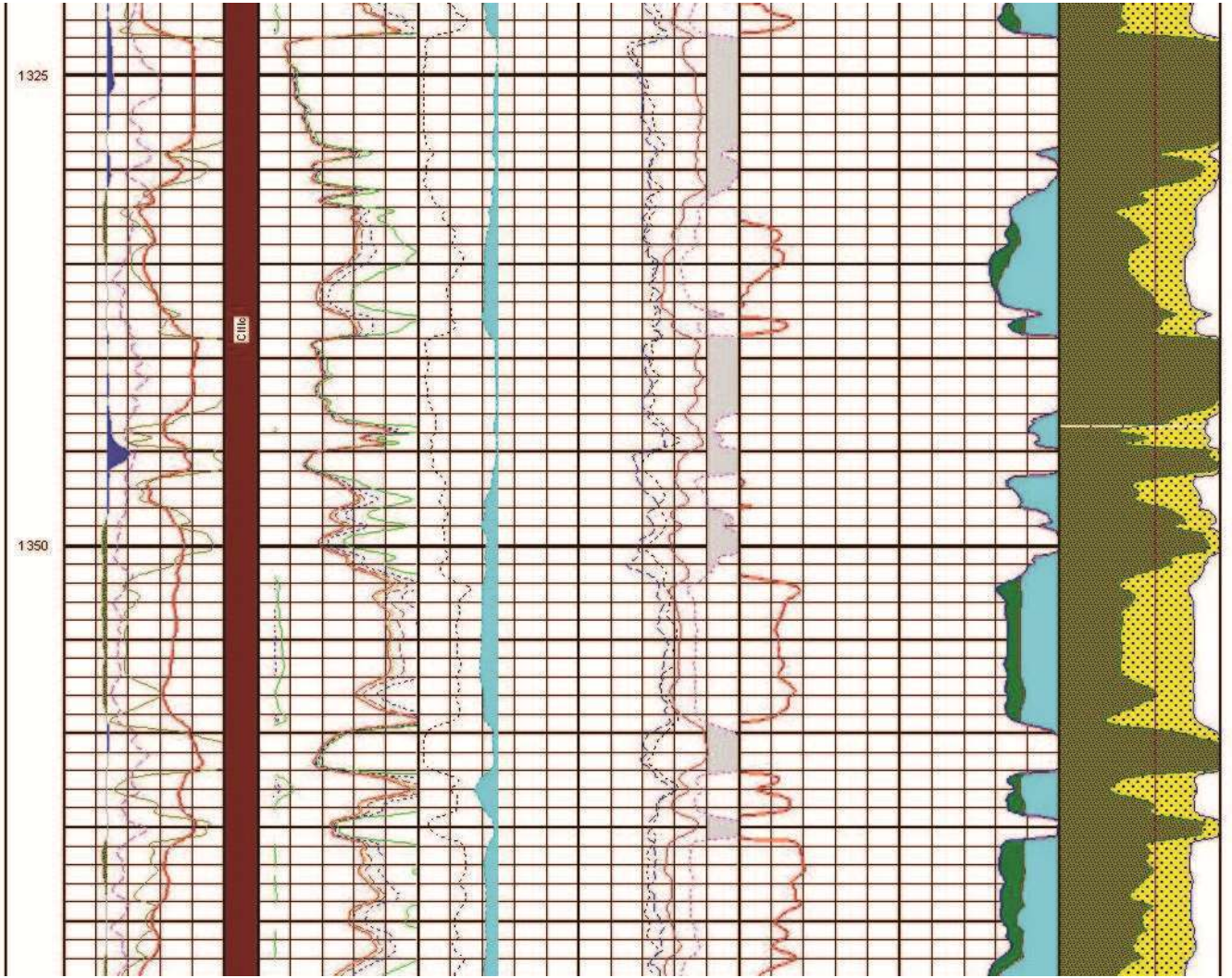




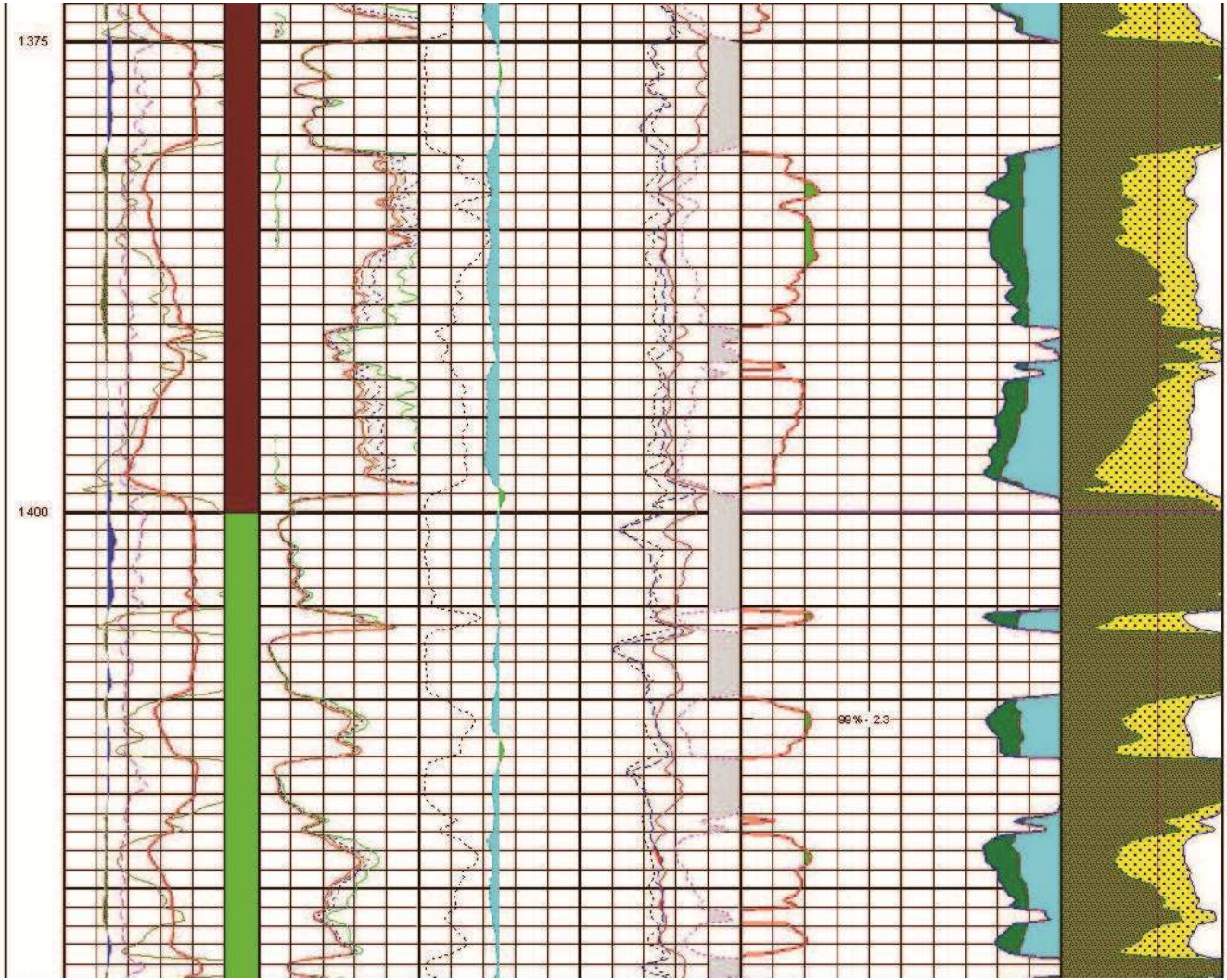


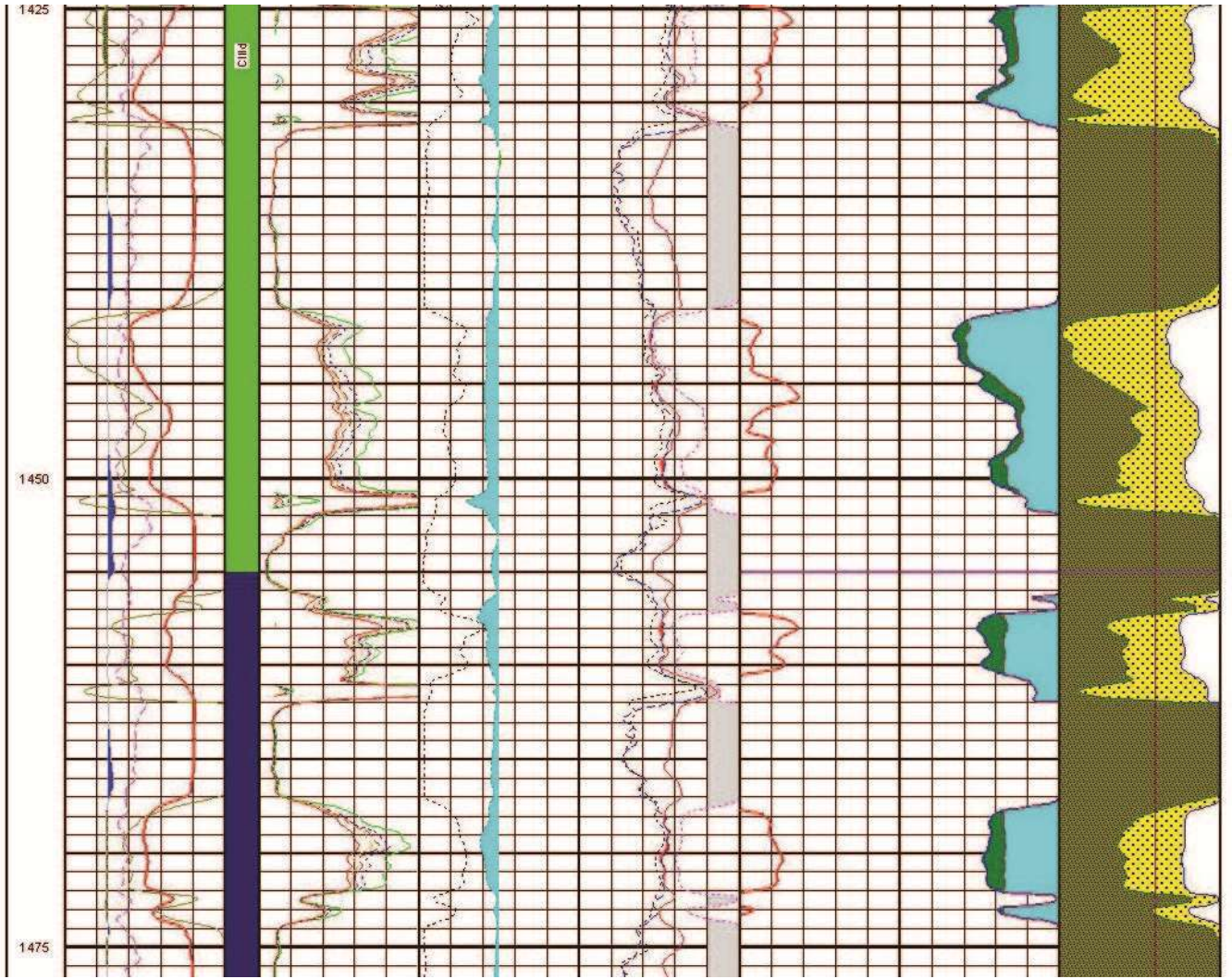




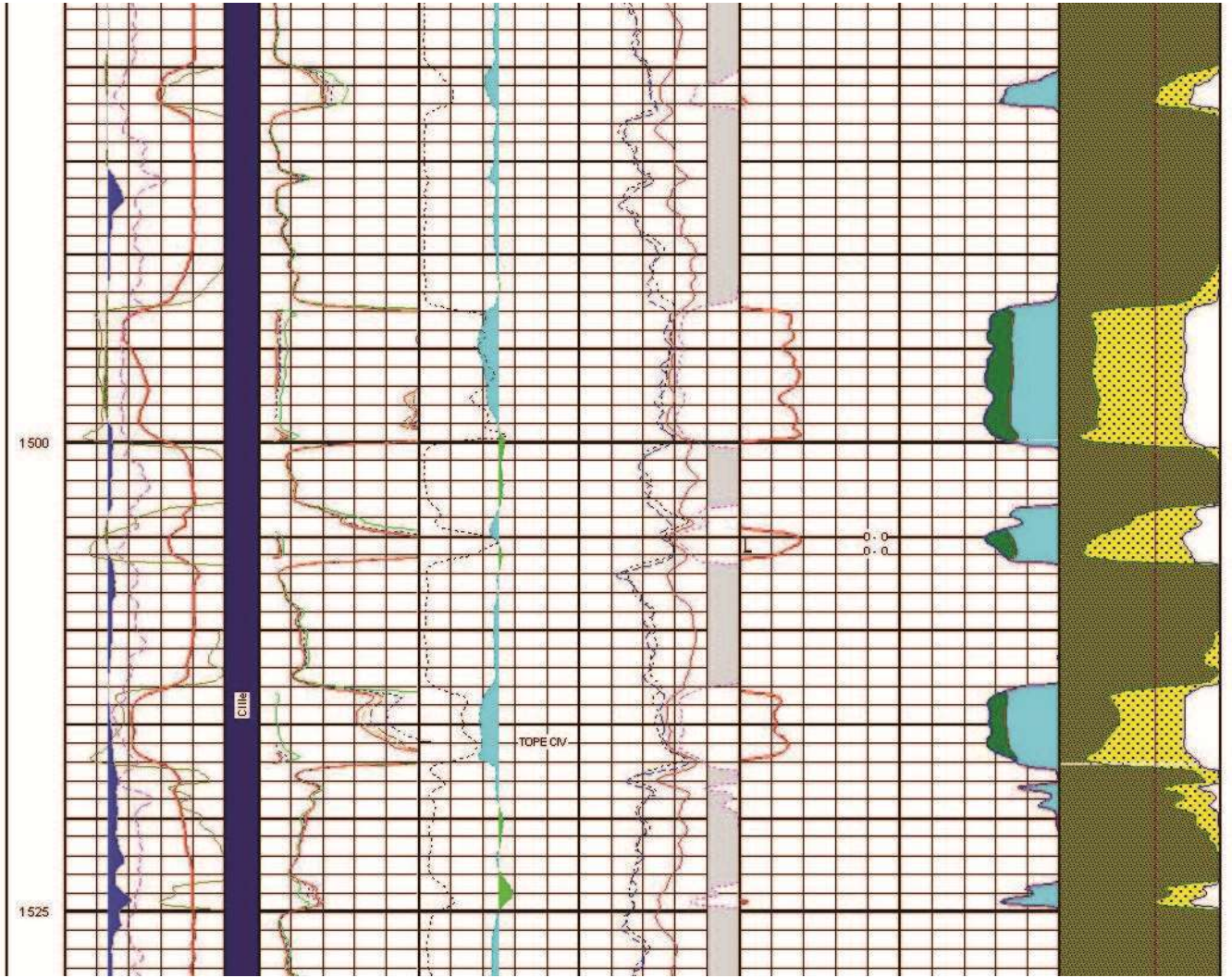


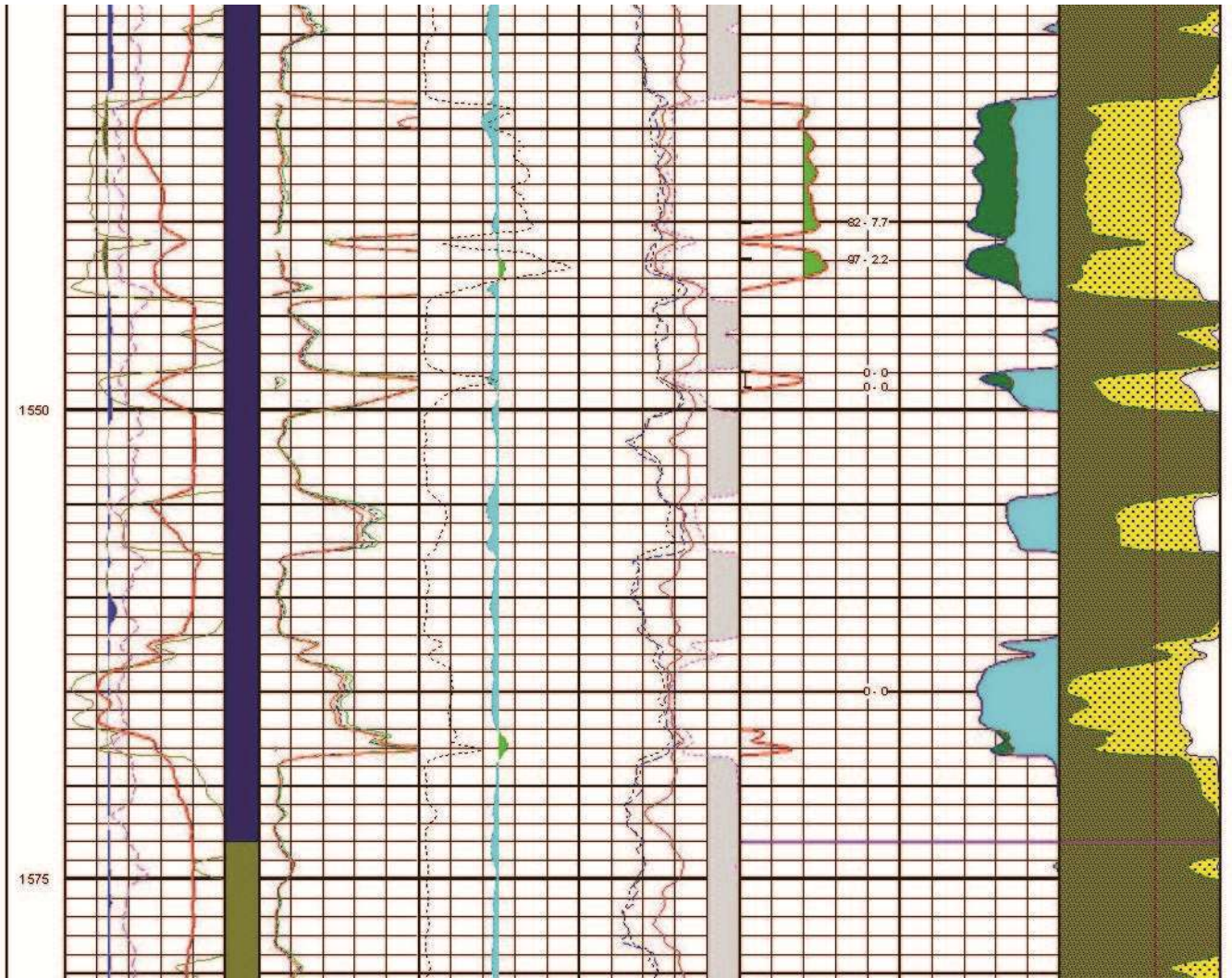




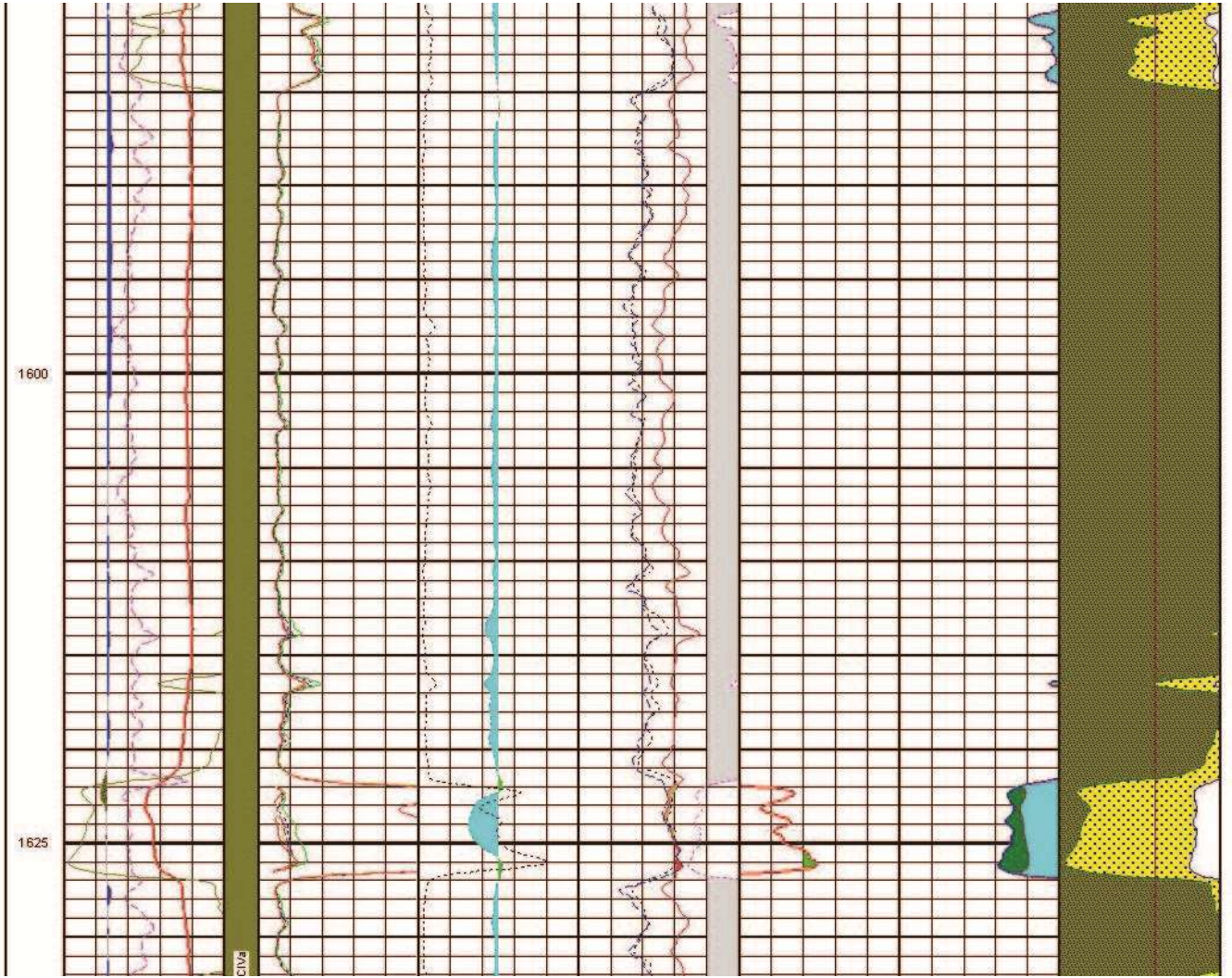


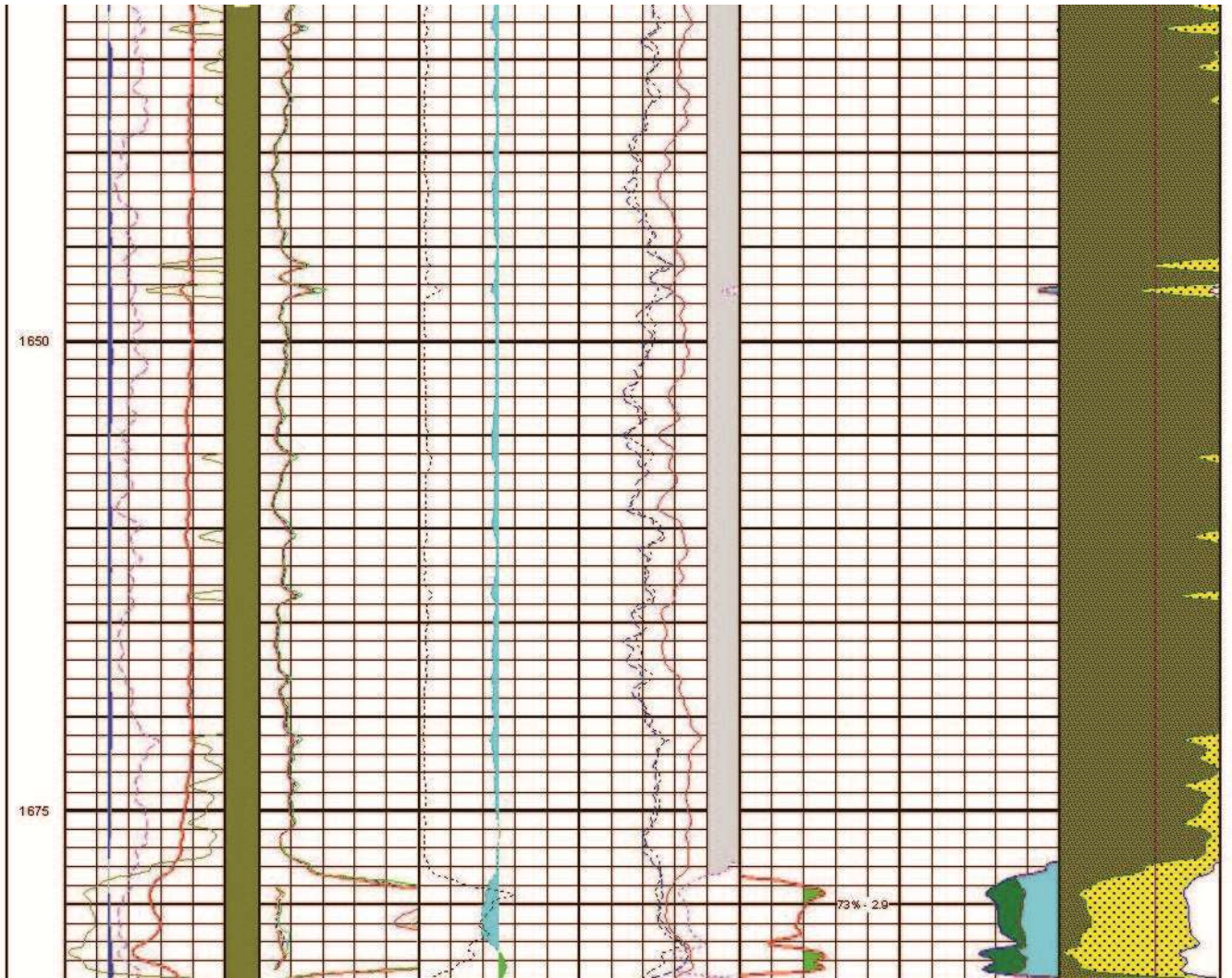




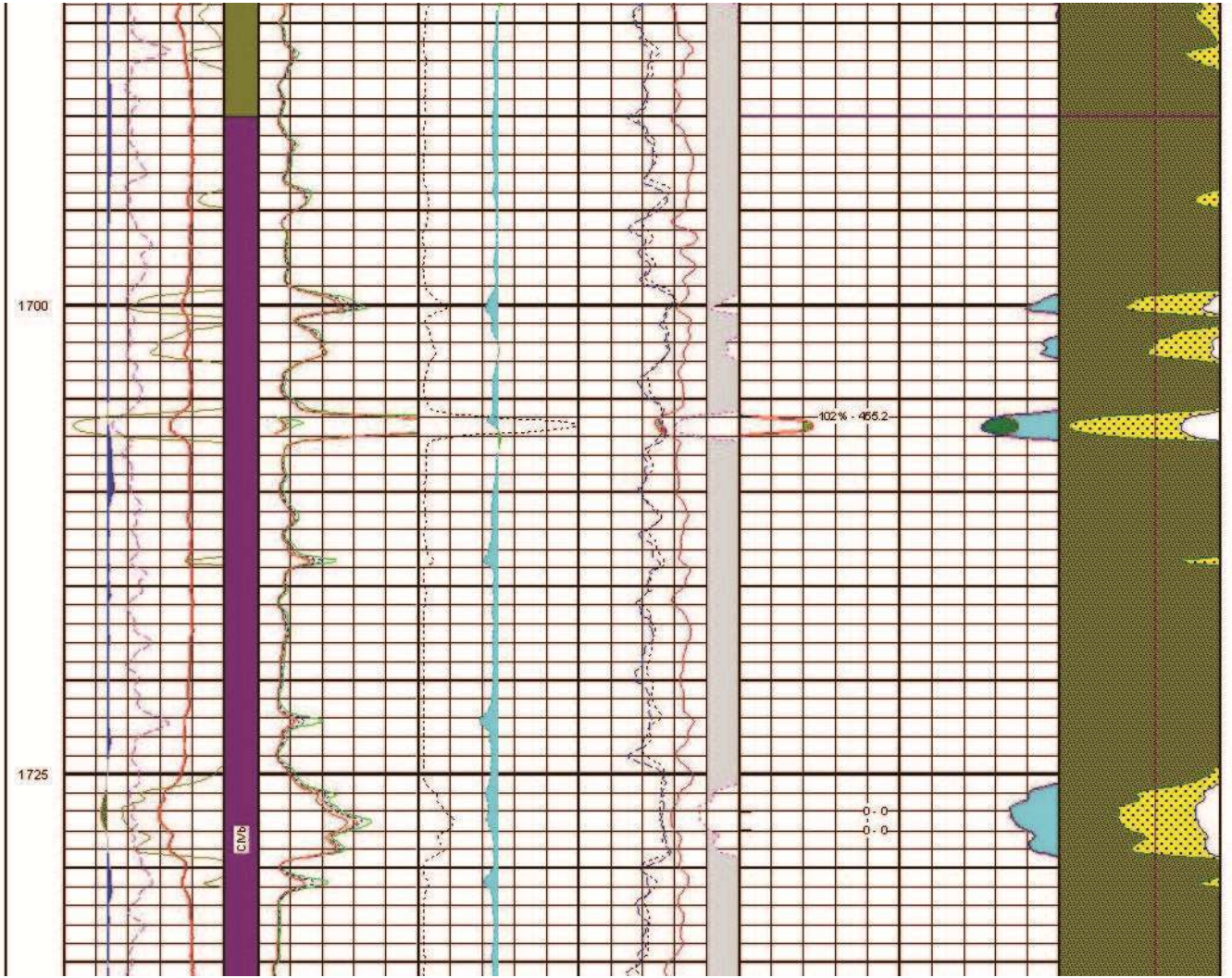


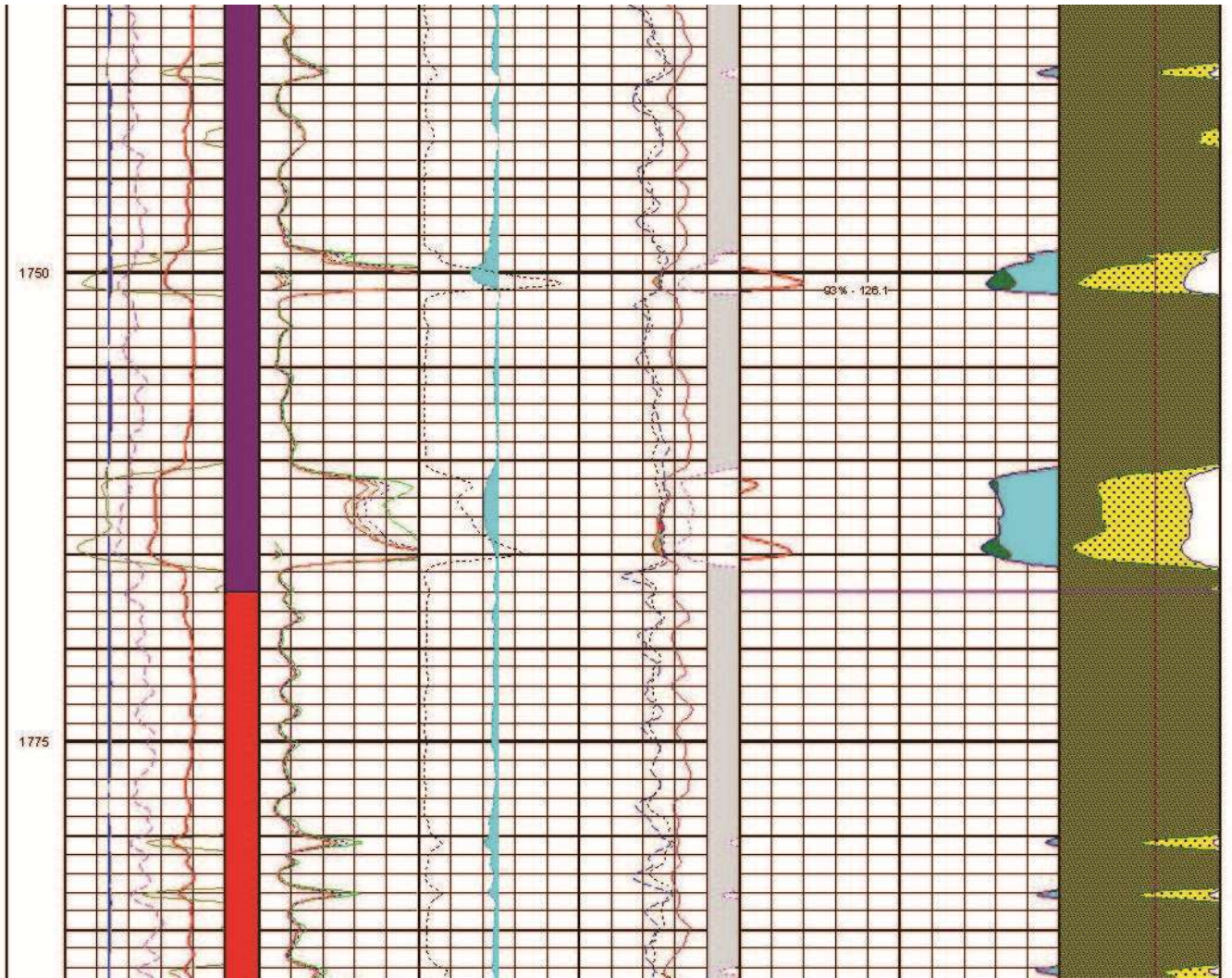




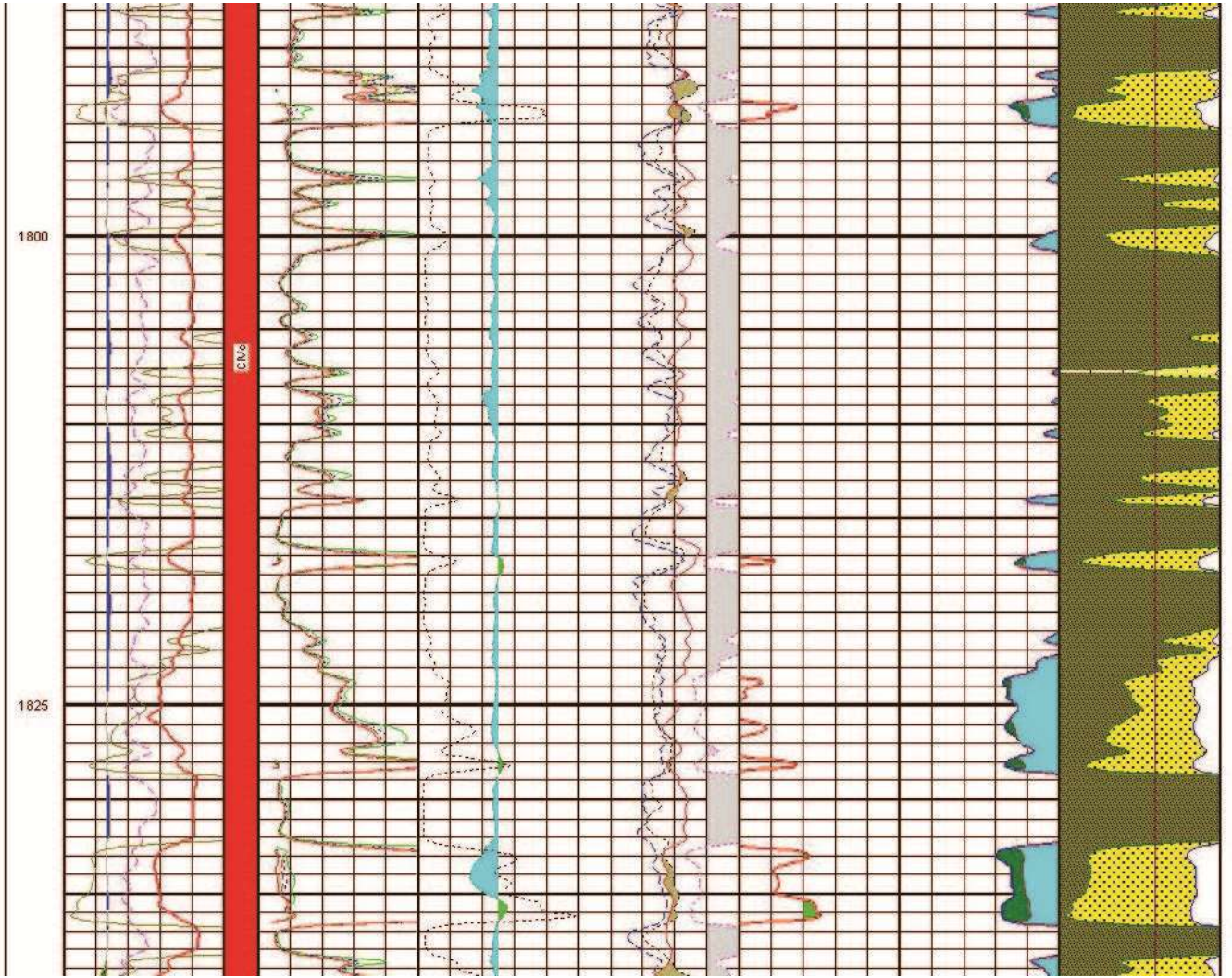


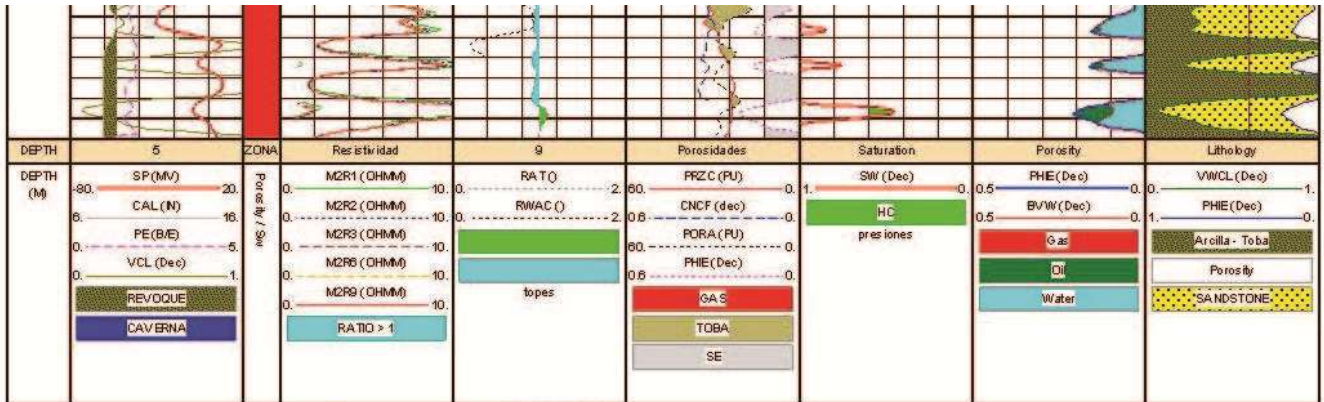












Company YPF S.A.  
 Well Name YPF.Ch.EA-779  
 Field EL ALBA  
 Country ARGENTINA State CHUBUT  
 Location MANANTIALES BHER