

Authigenic kaolinite and sudoite in sandstones from the Paleoproterozoic Franceville sub-basin (Gabon)

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SUPPLEMENTARY FIGURES

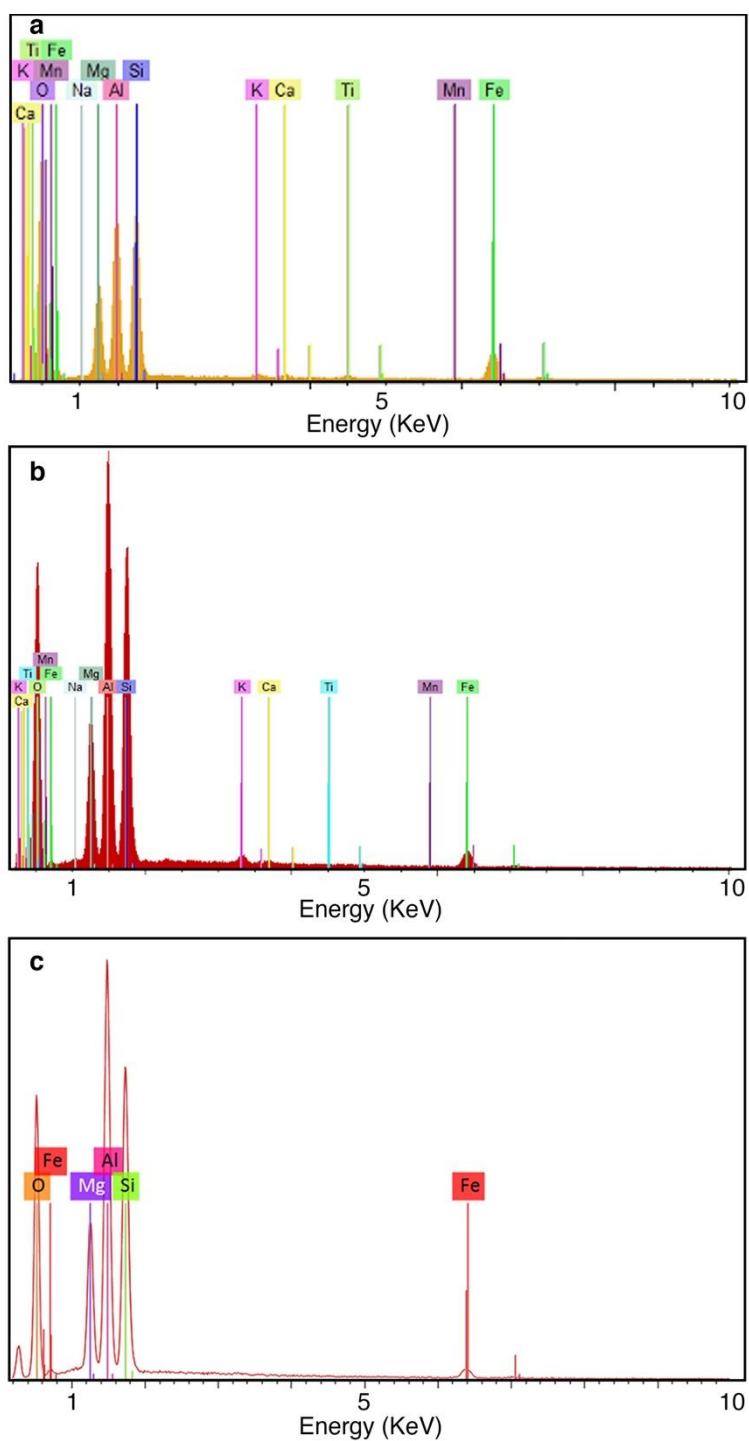


Figure S1. (a) Elemental point analysis of ferromagnesian chlorite in Figure 2d. (b) EDX spectrum of point analyses in Figure 2e and f shows the presence of Si, Al, Mg, and to a lesser extent of Fe, which is typical of sudoite mineralogy (c) EDX spectrum of sudoite in Figure 3d.

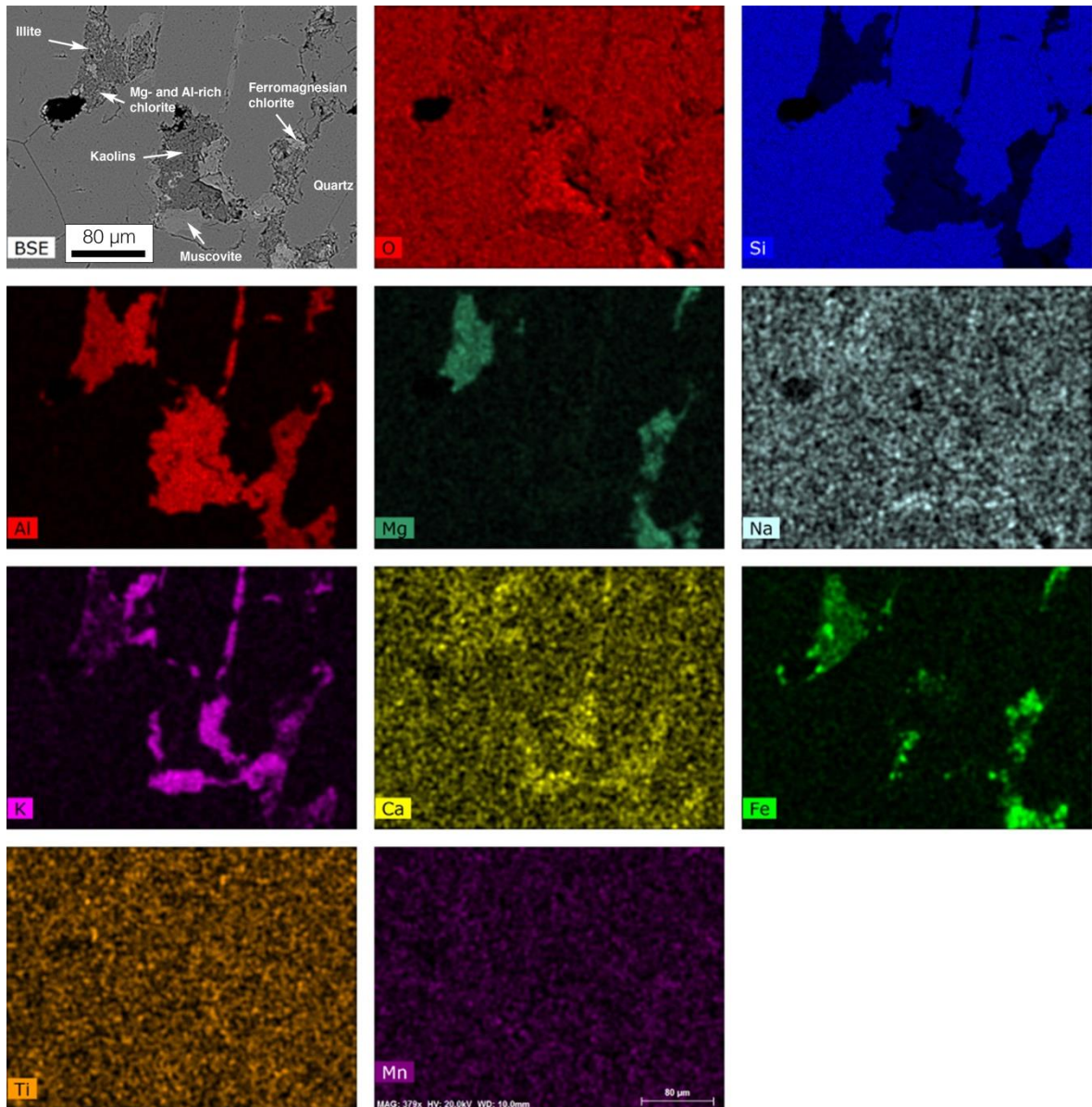


Figure S2. Petrography with SEM and EDX of sandstones from the FB_{2a} unit. BSE and composite (O, Si, Al, Mg, Na, K, Ca, Fe, Ti, and Mn) elemental maps of section in Figure 2e show the mineralogical composition of detrital and pore-filling materials.

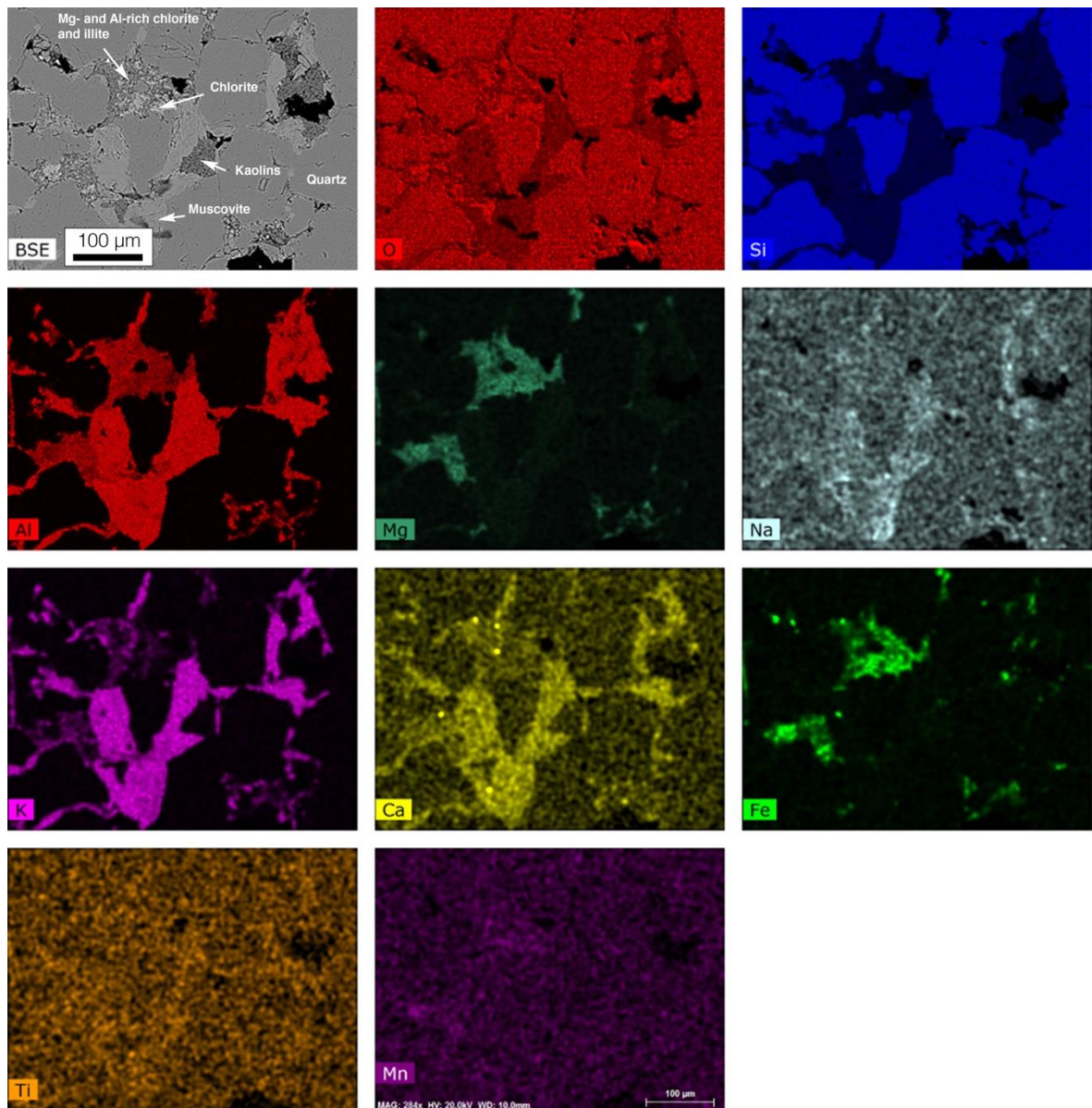


Figure S3. Petrography with SEM and EDX of sandstones from the FB_{2a} unit. BSE and composite (O, Si, Al, Mg, Na, K, Ca, Fe, Ti, and Mn) elemental maps of section in Figure 2f show the mineralogical composition of detrital and pore-filling materials.

SUPPLEMENTARY TABLES

Table S1. Composition and structural parameters from the simulations of experimental XRD patterns for the ethylene glycol state.

Units	Lithology	Samples	I/S R0					I/S R3					1Mt				Kaolinite	
			Atoms of Fe	Layer Prop.	Atoms of K	N	Rel. Ab.	Atoms of Fe	Layer Prop.	Atoms of K	N	Rel. Ab.	Atoms of Fe	Atoms of K	N	Rel. Ab.	N	Rel. Ab.
			I; S	I-S (%)			(%)	I; S	I-S (%)			(%)				(%)		(%)
FB2b	Black shales	<i>FR_s2-sed</i>	0.1; 0.3	34/66	0.9	5-16	4.9	0.5; 0.2	90/10	0.9	5-20	39.3	0.2	0.8	5-15	6.1	20-35	2.1
		<i>FPS_s3-sed</i>	0.2; 0.3	25/75	0.9	5-15	3.6	0.5; 0.2	90/10	0.9	6-20	70.8	0.2	0.8	5-15	8.7	-	0.0
		<i>FPS_s4-sed</i>	0.1; 0.3	25/75	0.9	5-15	2.9	0.5; 0.2	91/09	0.9	1-22	61.2	0.15	0.8	10-22	17.4	-	0.0
	Siltstones	<i>LP-s6-sed</i>	0.1; 0.3	25/75	0.9	5-15	5.8	0.1; 0.2	90/10	0.9	8-20	31.2	0.2	0.8	5-15	16.7	10-30	10.9
		<i>PTMM_s1-sed</i>	0.1; 0.3	25/75	0.9	5-15	2.3	0.1; 0.2	90/10	0.9	8-20	30.2	0.2	0.8	5-15	11.6	-	0.0
	FB2a	Sandstones	<i>MLS_s11-sed</i>	0.1; 0.3	25/75	0.9	5-15	1.9	0.1; 0.2	93/07	0.9	8-16	8.5	0.2	0.8	5-15	19.4	10-30
<i>MLS_s2-sed</i>			0.1; 0.3	25/75	0.9	5-15	9.3	0.1; 0.2	90/10	0.9	8-16	9.1	0.2	0.8	5-15	13.2	10-30	4.5
<i>EST_s2-sed</i>			-	-	-	-	0.0	0.1; 0.2	90/10	0.9	8-20	7.0	0.2	0.8	5-15	15.6	10-30	12.2
<i>MLS_s3-sed</i>			0.1; 0.3	25/75	0.9	5-15	1.5	0.1; 0.2	90/10	0.9	8-20	15.1	0.2	0.8	5-15	8.5	10-30	13.1

Units	Lithology	Samples	Sudoite				Chlorite				Illite/Mica					
			Oct. Fe	Hydro. Fe	Hydro. layer	N	Rel. Ab.	Oct. Fe	Hydro. Fe	Hydro. layer	N	Rel. Ab.	Atoms of Fe	Atoms of K	N	Rel. Ab.
							(%)					(%)				(%)
FB2b	Black shales	<i>FR_s2-sed</i>	-	-	-	-	0.0	1.75	1.35	1	20-35	2.4	0.1	1	22-55	45.1
		<i>FPS_s3-sed</i>	-	-	-	-	0.0	1.65	1.5	1	20-35	4.0	0.1	1	22-55	13.0
		<i>FPS_s4-sed</i>	-	-	-	-	0.0	1.6	1.66	1	10-25	6.7	0.1	1	22-55	11.9
	Siltstones	<i>LP-s6-sed</i>	0	0.5	1	8-23	3.6	2.06	1.63	1	10-35	12.3	0.1	1	22-55	19.6
		<i>PTMM_s1-sed</i>	0	0.5	1	8-23	2.3	2.22	1.81	1	10-35	24.4	0.1	1	22-55	29.1
	FB2a	Sandstones	<i>MLS_s11-sed</i>	0	0.4	0.98	8-23	14.4	1.6	1.66	1	10-25	3.4	0.1	1	22-55
<i>MLS_s2-sed</i>			0	0.5	1	8-23	17.5	1.3	1.12	1	10-25	6.6	0.1	1	22-55	39.8
<i>EST_s2-sed</i>			0	0.5	1	8-23	28.1	2.27	2.05	1	10-35	3.4	0.1	1	22-55	33.6
<i>MLS_s3-sed</i>			0	0.5	1	8-23	24.6	2.21	1.43	1	10-35	14.6	0.1	1	22-55	22.6

Atoms of Fe and K, number of atoms per Si_4O_{10} ; Layer Prop., layer proportion in the I-S MLMs; N, number of layers in coherent scattering domain with a lognormal distribution; Rel. Ab., relative abundance; -, not detected; Oct. Fe, Fe per three octahedral sites in the 2:1 layer; Hydro. Fe, Fe per three sites in the hydroxide layer; Hydro. layer, hydroxide layer. Italicized sample identification means that sigmastar was set to 14° .

FR: “fairy-ring” structure; FPS: flat pyritized structure; LP: linear pattern; PTMM: putative macro-tufted microbial mat; MLS: mat-layer structure; EST: “elephant-skin” texture, as described by Aubineau et al. (2018).

Table S2. Representative structural formulae of kaolinite, ferromagnesian chlorite, and sudoite from the mat-related structures and host sediments in the FB₂ Member.

Units	Samples	Si	Al(IV)	Al(VI)	Fe	Mg	Mn	Ti	Oct	Na	K	Ca	Int
FB _{2b}	DB & sediments	2.00	0.00	1.98	0.02	0.02	0.00	0.00	2.02	0.00	0.00	0.00	0.00
		2.74	1.26	1.86	1.86	1.98	0.00	0.00	5.70	0.00	0.00	0.00	0.00
		3.20	0.80	1.74	1.77	2.03	0.00	0.00	5.53	0.00	0.00	0.00	0.00
		3.10	0.90	1.65	1.87	2.10	0.00	0.00	5.63	0.00	0.00	0.00	0.00
		3.12	0.88	1.33	1.70	2.20	0.00	0.27	5.50	0.00	0.00	0.00	0.00
		2.78	1.22	1.97	1.60	2.05	0.00	0.00	5.62	0.00	0.00	0.00	0.00
		2.95	1.05	1.39	1.69	2.24	0.00	0.26	5.57	0.00	0.00	0.00	0.00
		2.82	1.18	1.85	1.92	1.90	0.00	0.00	5.67	0.00	0.00	0.00	0.00
		3.30	0.70	1.52	1.45	2.02	0.00	0.30	5.29	0.00	0.00	0.00	0.00
		2.99	1.01	1.44	1.65	2.14	0.00	0.28	5.51	0.00	0.00	0.00	0.00
		2.97	1.03	1.46	1.53	2.37	0.00	0.20	5.56	0.00	0.03	0.00	0.03
		3.16	0.84	2.06	1.39	1.95	0.00	0.00	5.39	0.00	0.00	0.00	0.00
		3.19	0.81	2.76	0.71	1.56	0.00	0.00	5.03	0.00	0.00	0.00	0.00
		3.02	0.98	1.49	1.56	2.22	0.00	0.23	5.49	0.00	0.05	0.00	0.05
			FPS & sediments	3.04	0.96	2.00	1.62	1.82	0.00	0.00	5.44	0.00	0.09
2.98	1.02			1.72	1.90	2.01	0.00	0.00	5.63	0.00	0.04	0.00	0.04
3.23	0.77			1.85	1.68	1.92	0.00	0.00	5.46	0.00	0.00	0.00	0.00
3.09	0.91			1.81	1.76	1.97	0.00	0.00	5.55	0.00	0.00	0.00	0.00
2.96	1.04			1.72	1.85	2.09	0.00	0.00	5.66	0.00	0.00	0.00	0.00
2.92	1.08			1.80	1.95	1.89	0.00	0.00	5.64	0.00	0.00	0.00	0.00
2.59	1.41			1.56	2.20	2.16	0.00	0.00	5.93	0.00	0.00	0.00	0.00
3.31	0.69			1.58	1.64	1.99	0.00	0.17	5.38	0.00	0.00	0.00	0.00
2.66	1.34			1.65	2.02	2.18	0.00	0.00	5.84	0.00	0.00	0.00	0.00
2.66	1.34			1.69	2.03	2.10	0.00	0.00	5.83	0.00	0.00	0.00	0.00
3.19	0.81			1.66	1.68	2.23	0.00	0.00	5.58	0.00	0.00	0.00	0.00
3.11	0.89			1.52	1.65	2.05	0.00	0.24	5.45	0.00	0.00	0.00	0.00
3.26	0.74			1.80	1.52	2.15	0.00	0.00	5.47	0.00	0.00	0.00	0.00
2.79	1.21			1.71	2.21	1.83	0.00	0.00	5.75	0.00	0.00	0.00	0.00
2.81	1.19			1.17	1.67	2.51	0.00	0.33	5.68	0.00	0.00	0.00	0.00
2.66	1.34	1.70	2.01	2.14	0.00	0.00	5.85	0.00	0.00	0.00	0.00		
	DB-FPS & sediments	2.67	1.33	1.43	2.75	1.77	0.00	0.00	5.95	0.00	0.00	0.00	0.00
		3.17	0.83	1.85	1.71	1.93	0.00	0.00	5.49	0.00	0.00	0.00	0.00
		3.13	0.87	1.86	1.51	2.14	0.00	0.00	5.51	0.00	0.00	0.00	0.00
		2.94	1.06	1.44	2.48	1.90	0.00	0.00	5.81	0.00	0.00	0.00	0.00
		2.94	1.06	1.52	1.63	2.32	0.00	0.15	5.62	0.00	0.00	0.00	0.00
		2.79	1.21	1.96	1.82	1.84	0.00	0.00	5.62	0.00	0.00	0.00	0.00
		2.92	1.08	2.10	1.53	1.87	0.00	0.00	5.49	0.00	0.00	0.00	0.00
		3.12	0.88	1.66	1.81	2.15	0.00	0.00	5.61	0.00	0.00	0.00	0.00
		2.67	1.33	1.78	1.95	2.05	0.00	0.00	5.77	0.00	0.00	0.00	0.00
		3.10	0.90	1.54	1.70	2.15	0.00	0.15	5.53	0.00	0.00	0.00	0.00
		3.09	0.91	1.32	1.79	1.86	0.00	0.41	5.39	0.00	0.00	0.00	0.00
		3.08	0.92	1.70	1.28	2.06	0.00	0.28	5.32	0.00	0.00	0.00	0.00
2.96	1.04	1.37	1.47	2.58	0.00	0.21	5.62	0.00	0.00	0.00	0.00		

		2.74	1.26	1.03	1.50	2.36	0.00	0.62	5.50	0.00	0.00	0.00	0.00
		2.97	1.03	1.30	1.80	2.17	0.00	0.30	5.57	0.00	0.00	0.00	0.00
		2.74	1.26	1.89	1.76	2.03	0.00	0.00	5.68	0.00	0.00	0.00	0.00
		2.73	1.27	1.87	1.80	2.03	0.00	0.00	5.70	0.00	0.00	0.00	0.00
		2.77	1.23	1.78	1.89	2.04	0.00	0.00	5.72	0.00	0.00	0.00	0.00
		3.18	0.82	2.96	0.44	1.53	0.00	0.00	4.93	0.00	0.00	0.00	0.00
		3.06	0.94	1.59	1.66	2.44	0.00	0.00	5.68	0.00	0.00	0.00	0.00
	NS &	3.10	0.90	1.50	1.96	1.78	0.00	0.00	5.25	0.00	0.00	0.23	0.46
	sediments	2.82	1.18	1.62	1.95	2.21	0.00	0.00	5.78	0.00	0.00	0.00	0.00
		2.84	1.16	0.99	2.30	1.88	0.00	0.05	5.22	0.00	0.00	0.45	0.91
		3.05	0.95	1.33	2.12	1.86	0.00	0.00	5.32	0.00	0.00	0.25	0.49
		3.44	0.56	1.98	1.94	1.49	0.00	0.04	5.46	0.00	0.00	0.19	0.38
		2.96	1.04	0.95	2.57	2.08	0.00	0.00	5.60	0.00	0.00	0.22	0.45
		3.09	0.91	1.19	1.98	2.01	0.00	0.00	5.18	0.00	0.00	0.34	0.68
		3.13	0.87	2.01	1.51	1.90	0.00	0.00	5.43	0.00	0.00	0.00	0.00
		3.07	0.93	2.85	0.54	1.65	0.00	0.00	5.04	0.00	0.00	0.00	0.00
		2.69	1.31	1.57	2.26	2.04	0.00	0.00	5.87	0.00	0.00	0.00	0.00
FB _{2a}	MLS-1 &	2.00	0.00	1.96	0.06	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
	sediments	3.07	0.93	1.36	1.81	2.14	0.00	0.23	5.54	0.00	0.01	0.00	0.01
		3.47	0.53	3.25	0.00	1.38	0.00	0.00	4.64	0.00	0.00	0.00	0.00
		3.01	0.99	1.48	1.51	2.20	0.00	0.28	5.47	0.00	0.00	0.00	0.00
		3.08	0.92	1.66	1.41	2.55	0.00	0.00	5.63	0.00	0.00	0.00	0.00
		3.47	0.53	2.99	0.33	1.36	0.00	0.00	4.69	0.00	0.00	0.00	0.00
		3.31	0.69	2.97	0.33	1.57	0.00	0.00	4.86	0.00	0.00	0.00	0.00
		3.33	0.67	3.05	0.33	1.44	0.00	0.00	4.81	0.00	0.00	0.00	0.00
		3.25	0.75	2.83	0.52	1.61	0.00	0.00	4.96	0.00	0.00	0.00	0.00
		2.73	1.27	1.62	1.87	2.33	0.00	0.00	5.82	0.00	0.00	0.00	0.00
		3.06	0.94	1.49	1.53	2.50	0.00	0.20	5.72	0.00	0.00	0.00	0.00
		3.02	0.98	1.54	1.56	2.47	0.00	0.16	5.72	0.00	0.00	0.00	0.00
		3.07	0.93	1.72	1.37	2.26	0.00	0.26	5.60	0.00	0.00	0.00	0.00
		2.68	1.32	1.66	2.44	1.74	0.00	0.00	5.83	0.00	0.00	0.00	0.00
		2.87	1.13	1.22	2.27	2.27	0.00	0.20	5.95	0.00	0.00	0.00	0.00
		3.00	1.00	1.48	1.50	2.58	0.00	0.20	5.76	0.00	0.00	0.00	0.00
		3.28	0.72	3.04	0.23	1.57	0.00	0.00	4.84	0.00	0.00	0.00	0.00
		3.30	0.70	3.03	0.23	1.46	0.00	0.00	4.72	0.00	0.22	0.00	0.22
		3.29	0.71	3.00	0.32	1.54	0.00	0.00	4.86	0.00	0.00	0.00	0.00
		3.14	0.86	2.85	0.40	1.76	0.00	0.00	5.01	0.00	0.00	0.00	0.00
		3.07	0.93	2.90	0.38	1.73	0.00	0.00	5.01	0.00	0.00	0.00	0.00
		3.25	0.75	2.99	0.36	1.53	0.00	0.00	4.88	0.00	0.00	0.00	0.00
		3.09	0.91	2.93	0.32	1.74	0.00	0.00	4.99	0.00	0.00	0.00	0.00
		3.16	0.84	2.87	0.45	1.67	0.00	0.00	4.98	0.00	0.00	0.00	0.00
		3.26	0.74	2.98	0.36	1.53	0.00	0.00	4.88	0.00	0.00	0.00	0.00
		3.23	0.77	2.97	0.39	1.54	0.00	0.00	4.90	0.00	0.00	0.00	0.00
	MLS-2 &	2.99	1.01	1.45	1.34	2.22	0.00	0.38	5.37	0.00	0.06	0.00	0.06
	sediments	3.08	0.92	1.46	1.44	2.37	0.00	0.20	5.48	0.00	0.08	0.00	0.08
		2.99	1.01	1.58	1.45	2.38	0.00	0.13	5.55	0.00	0.06	0.00	0.06
		2.93	1.07	1.32	1.16	2.95	0.00	0.00	5.44	0.00	0.03	0.00	0.03

	3.21	0.79	1.99	1.31	2.09	0.00	0.00	5.40	0.00	0.00	0.00	0.00
	3.01	0.99	2.90	0.50	1.63	0.00	0.00	5.03	0.00	0.03	0.00	0.03
	2.90	1.10	1.25	1.69	2.27	0.00	0.34	5.55	0.00	0.07	0.00	0.07
	2.90	1.10	1.42	1.40	2.58	0.00	0.19	5.60	0.00	0.09	0.00	0.09
	3.15	0.85	1.55	1.51	2.24	0.00	0.18	5.47	0.00	0.00	0.00	0.00
	3.56	0.44	3.08	0.36	1.25	0.00	0.00	4.68	0.00	0.00	0.00	0.00
	2.89	1.11	1.31	1.45	3.13	0.00	0.00	5.89	0.00	0.02	0.00	0.02
	3.24	0.76	1.39	1.38	2.90	0.00	0.00	5.67	0.00	0.03	0.00	0.03
	2.96	1.04	1.37	1.56	2.40	0.00	0.24	5.57	0.00	0.03	0.00	0.03
	3.09	0.91	1.48	1.65	2.24	0.00	0.15	5.53	0.00	0.07	0.00	0.07
	3.24	0.76	3.01	0.33	1.54	0.00	0.00	4.88	0.00	0.00	0.00	0.00
	3.04	0.96	1.20	2.31	2.36	0.00	0.00	5.87	0.00	0.00	0.00	0.00
LP &	3.00	1.00	1.32	1.86	2.10	0.00	0.25	5.53	0.00	0.11	0.00	0.11
sediments	2.91	1.09	1.30	1.38	2.73	0.00	0.24	5.66	0.00	0.00	0.00	0.00
	3.07	0.93	1.49	1.57	2.24	0.00	0.21	5.51	0.00	0.00	0.00	0.00
	3.30	0.70	1.55	1.11	2.28	0.00	0.32	5.25	0.00	0.00	0.00	0.00
	2.78	1.22	1.88	1.71	2.08	0.00	0.00	5.67	0.00	0.00	0.00	0.00
	3.13	0.87	1.24	2.05	2.13	0.00	0.19	5.62	0.00	0.00	0.00	0.00
	3.29	0.71	1.95	1.35	2.08	0.00	0.00	5.38	0.00	0.00	0.00	0.00
	2.90	1.10	1.40	1.74	2.41	0.00	0.15	5.70	0.00	0.00	0.00	0.00
	3.14	0.86	1.98	1.59	1.84	0.00	0.00	5.40	0.00	0.08	0.00	0.08
	3.04	0.96	1.63	1.76	2.27	0.00	0.00	5.66	0.00	0.00	0.00	0.00
	3.15	0.85	2.30	1.23	1.75	0.00	0.00	5.28	0.00	0.00	0.00	0.00
	2.86	1.14	1.93	1.64	2.03	0.00	0.00	5.60	0.00	0.00	0.00	0.00
EST &	1.98	0.02	2.01	0.00	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
sediments	1.85	0.15	2.05	0.00	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
	1.78	0.22	2.07	0.00	0.00	0.00	0.00	2.07	0.01	0.00	0.00	0.01
	1.86	0.00	2.19	0.00	0.00	0.00	0.00	2.19	0.00	0.06	0.00	0.06
	1.99	0.01	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
	3.22	0.78	2.95	0.52	1.44	0.00	0.00	4.92	0.00	0.00	0.00	0.00
	3.28	0.72	3.00	0.42	1.44	0.00	0.00	4.86	0.00	0.00	0.00	0.00
	3.17	0.83	2.93	0.55	1.47	0.00	0.00	4.95	0.00	0.00	0.00	0.00
	3.02	0.98	2.92	0.39	1.72	0.00	0.00	5.03	0.00	0.00	0.00	0.00
	3.24	0.76	3.07	0.27	1.51	0.00	0.00	4.85	0.00	0.00	0.00	0.00
	3.09	0.91	2.93	0.37	1.69	0.00	0.00	4.99	0.00	0.00	0.00	0.00
	3.03	0.97	2.91	0.43	1.69	0.00	0.00	5.03	0.00	0.00	0.00	0.00
	3.09	0.91	2.92	0.40	1.68	0.00	0.00	5.00	0.00	0.00	0.00	0.00
	3.06	0.94	2.94	0.33	1.73	0.00	0.00	5.00	0.00	0.00	0.00	0.00
	3.07	0.93	2.92	0.44	1.65	0.00	0.00	5.00	0.00	0.00	0.00	0.00
	3.14	0.86	2.97	0.30	1.68	0.00	0.00	4.95	0.00	0.00	0.00	0.00
	3.03	0.97	2.92	0.36	1.74	0.00	0.00	5.03	0.00	0.00	0.00	0.00
	3.13	0.87	2.98	0.36	1.60	0.00	0.00	4.94	0.00	0.00	0.00	0.00
	3.07	0.93	2.92	0.33	1.75	0.00	0.00	5.01	0.00	0.00	0.00	0.00
	3.05	0.95	2.90	0.37	1.75	0.00	0.00	5.02	0.00	0.00	0.00	0.00
	3.13	0.87	2.93	0.41	1.62	0.00	0.00	4.97	0.00	0.00	0.00	0.00
	3.04	0.96	2.94	0.38	1.68	0.00	0.00	5.01	0.00	0.02	0.00	0.02
	3.11	0.89	2.91	0.37	1.72	0.00	0.00	4.99	0.00	0.00	0.00	0.00

3.12	0.88	2.96	0.46	1.55	0.00	0.00	4.96	0.00	0.00	0.00	0.00
3.09	0.91	2.97	0.31	1.68	0.00	0.00	4.97	0.00	0.00	0.00	0.00
3.05	0.95	2.92	0.37	1.73	0.00	0.00	5.02	0.00	0.00	0.00	0.00
3.09	0.91	2.94	0.39	1.66	0.00	0.00	4.99	0.00	0.00	0.00	0.00
3.27	0.73	3.06	0.32	1.45	0.00	0.00	4.83	0.00	0.00	0.00	0.00
3.04	0.96	2.91	0.30	1.81	0.00	0.00	5.02	0.00	0.00	0.00	0.00
3.03	0.97	2.94	0.31	1.77	0.00	0.00	5.02	0.00	0.00	0.00	0.00
3.13	0.87	2.89	0.50	1.61	0.00	0.00	4.99	0.00	0.00	0.00	0.00
2.87	1.13	2.04	1.54	1.96	0.00	0.00	5.55	0.00	0.00	0.00	0.00
2.75	1.25	1.69	2.03	2.06	0.00	0.00	5.78	0.00	0.00	0.00	0.00
2.71	1.29	1.76	1.87	2.14	0.00	0.00	5.77	0.00	0.00	0.00	0.00
2.96	1.04	2.29	1.14	1.95	0.00	0.00	5.38	0.00	0.00	0.00	0.00
3.17	0.83	2.97	0.29	1.65	0.00	0.00	4.91	0.04	0.00	0.00	0.04
2.68	1.32	1.68	1.89	2.25	0.00	0.00	5.82	0.00	0.00	0.00	0.00
2.67	1.33	1.62	2.12	2.12	0.00	0.00	5.86	0.00	0.00	0.00	0.00
2.72	1.28	1.67	2.06	2.09	0.00	0.00	5.81	0.00	0.00	0.00	0.00
3.28	0.72	3.00	0.30	1.56	0.00	0.00	4.86	0.00	0.00	0.00	0.00
2.79	1.21	1.92	1.65	2.07	0.00	0.00	5.65	0.00	0.00	0.00	0.00
2.73	1.27	1.74	1.92	2.10	0.00	0.00	5.76	0.00	0.00	0.00	0.00
2.99	1.01	3.00	0.36	1.65	0.00	0.00	5.01	0.00	0.00	0.00	0.00
2.39	1.61	1.57	2.04	2.42	0.00	0.00	6.02	0.00	0.00	0.00	0.00
2.39	1.61	1.56	1.96	2.51	0.00	0.00	6.03	0.00	0.00	0.00	0.00
2.60	1.40	2.24	1.27	2.08	0.00	0.00	5.58	0.00	0.00	0.00	0.00
2.39	1.61	1.58	2.10	2.32	0.00	0.00	6.00	0.04	0.00	0.00	0.04
3.00	1.00	3.03	0.34	1.62	0.00	0.00	4.99	0.00	0.00	0.00	0.00
2.91	1.09	2.13	1.22	2.14	0.00	0.00	5.48	0.00	0.00	0.00	0.00
2.98	1.02	2.95	0.45	1.63	0.00	0.00	5.03	0.00	0.00	0.00	0.00
2.96	1.04	3.01	0.33	1.68	0.00	0.00	5.02	0.00	0.00	0.00	0.00

BD: domal buildup; FPS: flat pyritized structure; NS: nodular-like structure; MLS: mat-layer structure; LP: linear pattern; EST: “elephant-skin” texture, as described by Aubineau et al. (2018).