



SUPPLEMENTARY MATERIAL TO

Modelling of hydrochemical and hydromechanical parameters' synergism in the process of solid deposit creation in geothermal and other hard waters

DRAGAN B. MILIĆEVIĆ^{1*}, LJILJANA N. ANĐELKOVIĆ², MARJAN P. MITIĆ²,
JELENA M. PURENOVIĆ³ and MILOVAN M. PURENOVIĆ⁴

¹University of Niš, Faculty of Civil Engineering and Architecture, Niš, Serbia, ²University of Priština, Faculty of Technical Sciences, Kosovska Mitrovica, Serbia, ³University of Kragujevac, Faculty of Technical Sciences, Čačak, Serbia and ⁴University of Niš, Faculty of Science and Mathematics, Department of Chemistry, Niš, Serbia

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TABLE S-I. Results of completed examination for geothermal water from Sijarinska Banja, Niska Banja and water from Medijana spring¹

Location	D mm	A mm ²	Q L min ⁻¹	v m s ⁻¹	Re	C_i mg L ⁻¹ as CaCO ₃	C_0 mg L ⁻¹ as CaCO ₃	G_0 L min ⁻¹
Sijarinska Banja	2	3.14	0.038	0.20	605	65.86	63.90	0.036
	2	3.14	0.075	0.40	1209	74.43	69.61	0.070
	2	3.14	0.150	0.80	2419	78.89	75.32	0.143
	2	3.14	0.300	1.59	4838	98.16	89.78	0.274
	2	3.14	0.600	3.18	9675	66.22	63.54	0.576
	2	3.14	1.200	6.37	19350	162.95	155.99	1.148
	2	3.14	1.500	7.96	24188	155.28	148.14	1.431
	4	12.57	0.038	0.05	302	63.90	50.33	0.030
	4	12.57	0.075	0.10	605	69.61	66.04	0.071
	4	12.57	0.150	0.20	1209	75.32	74.25	0.148
	4	12.57	0.300	0.40	2419	89.78	83.17	0.278
	4	12.57	0.600	0.80	4838	63.54	58.90	0.556
	4	12.57	1.200	1.59	9675	155.99	151.35	1.165
	4	12.57	1.500	1.99	12094	148.14	145.82	1.477
	6	28.27	0.150	0.09	806	83.17	74.43	0.134
	6	28.27	0.300	0.18	1613	83.17	78.89	0.285
6	28.27	0.600	0.35	3225	58.90	58.18	0.59	
6	28.27	1.200	0.71	6450	151.35	141.36	1.121	
6	28.27	1.300	0.77	6988	76.92	71.93	1.216	
6	28.27	1.500	0.88	8063	145.82	123.87	1.274	

* Corresponding author. E-mail: dragan.milicevic@gaf.ni.ac.rs

TABLE I. Continued

Location	D mm	A mm ²	Q L min ⁻¹	v m s ⁻¹	Re	C_i mg L ⁻¹ as CaCO ₃	C_o mg L ⁻¹ as CaCO ₃	G_o L min ⁻¹
Sijarinska Banja	8	50.27	0.600	0.20	2419	57.47	56.94	0.594
	8	50.27	1.200	0.40	4838	141.36	134.22	1.139
	8	50.27	1.300	0.43	5241	68.89	64.97	1.226
	8	50.27	1.500	0.50	6047	123.87	112.80	1.366
	10	78.54	0.600	0.13	1935	110.30	98.16	0.534
	10	78.54	1.500	0.32	4838	112.80	100.84	1.341
Niška Banja	2	3.14	0.075	0.40	1209	212.39	208.82	0.076
	2	3.14	0.150	0.80	2419	221.32	214.18	0.155
	2	3.14	0.300	1.59	4838	230.24	223.10	0.310
	2	3.14	0.600	3.18	9675	228.45	221.32	0.619
	2	3.14	1.200	6.37	19350	232.02	223.10	1.248
	2	3.14	1.500	7.96	24188	232.02	223.10	1.560
	2	3.14	1.800	9.55	29025	249.87	240.95	1.867
	4	12.57	0.075	0.10	605	208.82	205.25	0.076
	4	12.57	0.150	0.20	1209	214.18	208.82	0.154
	4	12.57	0.300	0.40	2419	223.10	214.18	0.313
	4	12.57	0.600	0.80	4838	221.32	210.61	0.631
	4	12.57	1.200	1.59	9675	223.10	215.96	1.240
	4	12.57	1.500	1.99	12094	223.10	212.39	1.576
	4	12.57	1.800	2.39	14513	240.95	233.81	1.855
	6	28.27	0.150	0.09	806	208.82	207.04	0.151
	6	28.27	0.300	0.18	1613	214.18	210.61	0.305
	6	28.27	0.600	0.35	3225	210.61	208.82	0.605
	6	28.27	1.200	0.71	6450	215.96	207.04	1.252
	6	28.27	1.500	0.88	8063	212.39	205.25	1.552
	6	28.27	1.800	1.06	9675	233.81	212.39	1.982
	8	50.27	0.300	0.10	1209	210.61	207.04	0.305
	8	50.27	0.600	0.20	2419	208.82	203.47	0.616
	8	50.27	1.200	0.40	4838	207.04	201.68	1.232
	8	50.27	1.500	0.50	6047	205.25	199.90	1.540
8	50.27	1.800	0.60	7256	212.39	207.04	1.847	
10	78.54	1.500	0.32	4838	199.90	196.33	1.527	
10	78.54	1.800	0.38	5805	207.04	199.90	1.864	
Medijana, Niš	2	3.14	0.075	0.40	1209	224.88	215.96	0.078
	2	3.14	0.150	0.80	2419	223.10	217.75	0.154
	2	3.14	0.300	1.59	4838	274.86	264.15	0.312
	2	3.14	0.600	3.18	9675	276.64	265.94	0.624
	2	3.14	1.200	6.37	19350	242.73	233.81	1.246
	2	3.14	1.500	7.96	24188	260.58	257.01	1.521
	2	3.14	1.800	9.55	29025	265.94	255.94	1.870
	4	12.57	0.075	0.10	605	215.96	212.39	0.076
	4	12.57	0.150	0.20	1209	217.75	214.18	0.153
	4	12.57	0.300	0.40	2419	264.15	260.58	0.304
	4	12.57	0.600	0.80	4838	265.94	264.15	0.604

TABLE I. Continued

Location	D mm	A mm ²	Q L min ⁻¹	v m s ⁻¹	Re	C_i mg L ⁻¹ as CaCO ₃	C_o mg L ⁻¹ as CaCO ₃	G_o L min ⁻¹
Medijana, Niš	4	12.57	1.200	1.59	9675	233.81	226.67	1.238
	4	12.57	1.500	1.99	12094	257.01	249.87	1.543
	4	12.57	1.800	2.39	14513	255.94	241.84	1.904
	6	28.27	0.150	0.09	806	214.18	207.04	0.155
	6	28.27	0.300	0.18	1613	260.58	257.01	0.304
	6	28.27	0.600	0.35	3225	264.15	260.58	0.608
	6	28.27	1.200	0.71	6450	226.67	223.10	1.219
	6	28.27	1.500	0.88	8063	249.87	244.52	1.533
	6	28.27	1.800	1.06	9675	241.84	229.53	1.897
	8	50.27	0.600	0.20	2419	260.58	258.80	0.604
	8	50.27	1.200	0.40	4838	223.10	221.32	1.210
	8	50.27	1.500	0.50	6047	244.52	240.95	1.522
	8	50.27	1.800	0.60	7256	229.53	221.85	1.862
	10	78.54	1.500	0.32	4838	240.95	233.81	1.546
	10	78.54	1.800	0.38	5805	221.85	216.50	1.845

REFERENCES

1. Lj. Anđelković, *PhD Thesis*, Faculty of Technical Sciences in Kosovska Mitrovica, 2013 (in Serbian).