

Table S2. Estimation results of the theoretical CO₂ storage capacity for the Konary structure in separate ten layers of the reservoir level.

No	Mean depth [m]	Geometric volume of layer V_{trap} [Mm ³]	Pressure P_i [MPa]	Temperature T [°C]	CO ₂ density in reservoir conditions ρ_{CO_2} [kg/m ³]	Theoretical Storage capacity M_{CSLF} [Mt CO ₂]	Brine initial density ρ_0 [kg/m ³]	CO ₂ saturate brine density ρ_s [kg/m ³]	Capacity of CO ₂ dissolved in water M_R [Mt CO ₂]
1	847	1341.57	9.12	40.59	488.50	77.99	1018.74	1273.43	2.76
2	863	223.59	9.29	41.07	506.39	12.68	1018.56	1273.20	0.43
3	873	760.22	9.40	41.37	516.62	46.74	1018.45	1273.06	1.57
4	885	357.75	9.52	41.71	525.98	13.17	1018.32	1272.91	0.43
5	890	134.16	9.58	41.87	530.55	4.98	1018.26	1272.83	0.16
6	904	1162.69	9.72	42.06	545.99	62.21	1018.19	1272.74	1.97
7	917	89.44	9.86	42.64	547.86	3.43	1017.97	1272.47	0.11
8	919	89.44	9.88	42.70	548.78	3.44	1017.95	1272.44	0.11
9	921	134.16	9.90	42.76	549.68	1.55	1017.93	1272.41	0.05
10	925	178.88	9.94	42.86	552.01	6.91	1017.89	1272.37	0.22
Total						233.10			7.82