



*Supplement of*

## **Geological screening of onshore saline aquifers for CO<sub>2</sub> storage: Paraná and Espírito Santo basins, Brazil**

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**Table S1.** Formation testing and porosity data from well reports of Paraná Basin, including the page number where the information is found in the report and the type of porosity data (i.e. derived from petrophysical logs or core samples). The table also includes the top, base and thickness of the target unit - Rio Bonito Formation (RB Fm) - in each well. TDS stands for total dissolved solids, in ppm.

Rio Bonito (RB) Fm - Paraná Basin				Formation Testing		Porosity		
Well identifier	Top RB Fm	Base RB Fm	Thickness	Page	TDS	Pages	Type of data	Average
1CA 0001 PR	-987	-1060	73	no data	x	no data	x	x
1CA 0002 PR	-1002	-1093	91	no data	x	124	core	21.8%
1CA 0003 PR	-1102	-1263	161	254	7095	362	neutron log	18.5%
1CS 0002 PR	-2330	-2600	270	715	10395	1065	average, logs	19.5%
1ES 0001 RS	-2161	-2324	163	92	39270	no data	x	x
1ES 0002 RS	-2133	-2295	162	77	44550	113	core	16.2%
1GB 0001 PR	-2180	-2454	274	no data	x	no data	x	x
1GP 0001 PR	-2032	-2237	205	no data	x	141 - 143	average, logs	12.5%
1MA 0001 SP	-1029	-1115	86	no data	x	233-235	neutron log	23.5%
1MB 0001 SC	-1425	-1593	168	109	36300	184	core	11.5%
1MC 0001 RS	-2120	-2263	143	81	17500	183	core	13.0%
1MC 0002 SC	-1623	-1781	158	115	53000	197	core	13.8%
1PH 0001 PR	-1978	-2327	349	no data	x	154	effective porosity log	12.0%
1PT 0001 PR	-2285	-2443	158	no data	x	367-368	core	8.0%
1RCH 0001 SC	-2353	-2421	68	102	49500	168	average, logs	10.0%
1RS 0001 PR	-2351	-2537	186	182	21450	199	neutron log	12.7%
1SJQ 0001 SC	-1596	-1768	172	no data	x	124	sonic log	13.5%
1TP 0001 SC	-2171	-2308	137	no data	x	408	core	15.3%
1TP 0003 SC	-2223	-2356	133	no data	x	no data	x	x
1TV 0002 SC	-1955	-2094	139	203	25000	290-311	core	15.7%
1TV 0003 SC	-1942	-2080	138	165	39000	185-198	core	13.3%
1TV 0004 SC	-1919	-2060	141	176	54500	248-257	core	14.5%
2AA 0001 SP	-1858	-1934	76	no data	x	275	neutron log	18.5%
2AO 0001 RS	-2093	-2221	128	105	29370	246-252	core	16.0%
2AR 0001 SP	-1907	-1951	44	no data	x	187	effective porosity log	11.7%
2CA 0001 SC	-1625	-1794	169	no data	x	222-223	core	11.1%
2LV 0001 RS	-2138	-2283	145	155	36000	267	average, logs	16.0%
2MC 0001 SC	-1742	-1900	158	53	38000	no data	x	x
2MR 0001 RS	-2035	-2137	102	no data	x	no data	x	x
2PI 0001 SC	-2014	-2138	124	213	61000	250-256	core	15.0%
2PP 0001 SP	-2107	-2156	49	no data	x	no data	x	x
2PU 0001 SC	-1040	-1237	197	61	12000	70	average, logs	23.1%
2RI 0001 RS	-1968	-2147	179	no data	x	no data	x	x
2UV 0001 PR	-884	-1091	207	205	16000	278-309	core	17.0%
3MC 0003 SC	-1623	-1788	165	95	3000	no data	x	x
				median	36000		median	14.8%

**Table S2.** Formation testing and porosity data from well reports of Espírito Santo Basin, including the page number where the information is found in the report and the type of porosity data (i.e. derived from petrophysical logs or core samples). The table also includes the top, base and thickness of the target unit - Mucuri Member (M Mb) - in each well. TDS stands for total dissolved solids, in ppm.

Mucuri (M) Member - Espírito Santo Basin				Formation Testing		Porosity		
Well identifier	Top M Mb	Base M Mb	Thickness	Page	TDS	Page	Type of data	Average (%)
1BN-0003-ES	-1404	-1506	102	26	49000	no data	x	x
1CCN-0001-ES	-962.92	-1229	266.08	30	39600	63	density log	22
1CMO-0001-ES	-1440	-1476	36	no data	x	no data	x	x
1FC-0001-ES	-1625.94	-1824.15	198.21	94	80517	no data		x
1FRG-0001-ES	-1697	-1859	162	no data	x	no data	x	x
1IT-0002-ES	-1139	-1211	72	24	57000	54	average, logs	18.5
1MAN-0001-ES	-1496.95	-1632.53	135.58	41	2500	68	average, logs	13.6
1MAS-0001-ES	-1545	-1690	145	17	76725	60	average, logs	12
1N-0002-ES	-1668.49	-1998.92	330.43	126	55000	132	core	18.3
1NO-0002-ES	-820	-1092	272	25	26000	31	average, logs	19.5
1PRG-0001-ES	-1446.98	-1599.88	152.9	36	91000	no data	x	x
1RM-0001-ES	-1716	-1830	114	83	1155	118	density log	17.3
1RP-0001-ES	-1276	-1485	209	41	63900	no data	x	x
1RPO-0001-ES	-990.18	-1249	258.82	53, 62	4120	85	average, logs	20
1RPS-0001-ES	-898.42	-1128.83	230.41	45	990	89	average, logs	20.7
1RSM-0002-ES	-1014	-1092	78	no data	x	54	density log	5.5
1RSM-0008-ES	-926.72	-1052.31	125.59	25, 37	31350	82	average, logs	20.0
1SJ-0001-ES	-1847.27	-2134.21	286.94	27	124480	no data	x	x
1SM-0001-ES	-1398.42	-1505.02	106.6	93	1650	84	sonic log	20.2
1SMO-0002-ES	-1191	-1336	145	35	51150	50	average, logs	20
1SMO-0003-ES	-1061.93	-1194.04	132.11	27	1650	37	average, logs	19.7
1SP-0001-ES	-1160.87	-1571.43	410.56	40	87750	61	average, logs	19.0
2CBST0002-ES	-1186	-1296	110	no data	x	no data	x	x
2NST-0001-ES	-2020.09	-2271.15	251.06	no data	x	154	average, logs	16
3CB-0004-ES	-1476	-1516	40	24, 29	63650	no data	x	x
3GU-0002-ES	-1696	-1753	57	31, 42	96500	57	average, logs	27
3MA-0002-ES	-1414.95	-1482.87	67.92	no data	x	42	average, logs	21.0
3RI-0003-ES	-1249.64	-1322.14	72.5	35	13870	56	average, logs	24.5
3RIB-0002-ES	-927	-973	46	no data	x	no data	x	x
3RM-0002-ES	-1744	-1885	141	29, 31	4100	50	average, logs	12.5
3RPS-0002-ES	-906.58	-1191	284.42	42	495	144	average, logs	25
3RSM-0007-ES	-959.94	-1141.85	181.91	44, 52	1037	90	average, logs	17.0
3RSM-0040-ES	-1063.78	-1215.19	151.41	no data	x	no data	x	x
3SM-0002-ES	-1438	-1556	118	71, 74	73000	no data	x	x
3SM-0003-ES	-1443.81	-1668.08	224.27	80	80000	83	average, logs	17.2
4RM-0009-ES	-1564.36	-1655.92	91.56	no data	x	no data	x	x
4SM-0008-ES	-1410.79	-1553.04	142.25	no data	x	96	average, logs	17.6
7RI-0026-ES	-1228	-1363.4	135.4	no data	x	61	density log	17.4
7RPO-0008-ES	-975.37	-1232.5	257.13	no data	x	40	average, logs	19.9
7RSM-0035-ES	-966.98	-1120.47	153.49	23	42900	53	density log	16.3
7RSM-0046-ES	-989.29	-1114.7	125.41	no data	x	35	average, logs	16.8
				Median	43610		Median =	18.4

