

OR/12/023 Appendix 2 - Chemistry data for the control column

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Wragg, J, Rushton, J, Bateman, K, Green, K, Harrison, H, Wagner, D, Milodowski, A E, and West, J M. 2012. Microbial Impacts of CO₂ transport in Sherwood Sandstone. *British Geological Survey Internal Report, OR/12/023*.

Sample	Sample description	Total time	pH	Ca	Mg	Na	K	HCO ₃ ⁻	Cl ⁻	SO ₄ ²⁻	NO ₃ ⁻	Br ⁻	NO ₂ ⁻	HPO ₄ ²⁻	F ⁻	I	NPOC
				mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	µg l ⁻¹	mg l ⁻¹
CT1	Sampled fluid ex core	89	7.33	171	245	8159	18018	2.50	33330	427	137	50.1	2.50	25.0	2.50	40.8	25775
CT2	Sampled fluid ex core	257	8.08	19	4.9	5390	299	7.5	9062	12.5	5.0	5.0	2.50	25.0	2.50	2.0	348
CT3	Sampled fluid ex core	426	7.47	15	2.2	5563	36.7	2.50	9208	12.5	5.0	5.0	2.50	25.0	2.50	1.0	247
CT4	Sampled fluid ex core	594	7.87	18	3.9	5585	21.6	2.50	9076	12.5	10.1	5.0	2.50	25.0	2.50	0.9	232
CT5	Sampled fluid ex core	737	7.79	26	6.0	5664	15.1	2.50	9048	12.5	5.0	5.0	2.50	25.0	2.50	0.8	227
Starting fluid		0	6.48	1	0.1	5621	1.8	2.50	9341	12.5	32.1	5.0	2.50	25.0	2.50	0.1	50
Fluid in pump at experiment end		761	7.71														

Sample	Sample description	Total time	Total P	Total S	Si	SiO ₂	Ba	Sr	Mn	Total Fe	Fe (II)	Li	Be	B	Al	Ti	V
			mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹
CT1	Sampled fluid ex core	89	0.22	231	1.80	3.85	223	2109	1268	179	n/s	1121	0.02	130	5	1.0	2
CT2	Sampled fluid ex core	257	0.04	9	1.70	3.64	121	211	62	17	37.5	33	0.02	130	5	0.3	13
CT3	Sampled fluid ex core	426	0.04	5	2.06	4.41	92	132	46	7	37.5	16	0.02	130	5	0.3	2
CT4	Sampled fluid ex core	594	0.04	5	2.54	5.43	107	119	44	3	37.5	14	0.02	130	5	0.3	3
CT5	Sampled fluid ex core	737	0.11	5	3.15	6.74	140	129	59	3	37.5	6	0.02	130	13	0.3	2
Starting fluid		0	0.04	5	0.07	0.150	1	2	1	3	n/s	6	0.02	130	5	0.3	2

Sample	Sample description	Total time	Cr	Co	Ni	Cu	Zn	Ga	As	Se	Rb	Y	Zr	Nb	Mo	Ag	Cd
			µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹	µg l ⁻¹
CT1	Sampled fluid ex core	89	12.5	153	5010	161	112	1	126	27.4	5075	0.05	0.3	0.3	714	21.9	12.5
CT2	Sampled fluid ex core	257	1.7	4.68	201	27.7	17	1	23.7	5.8	163	0.02	0.3	0.3	330	0.17	0.18
CT3	Sampled fluid ex core	426	0.3	2.29	102	10.8	20	1	21.3	3.4	53.8	0.02	0.3	0.3	329	0.04	0.13
CT4	Sampled fluid ex core	594	0.3	1.97	70.0	4.0	14	1	19.5	3.3	37.8	0.02	0.3	0.3	301	0.04	0.17
CT5	Sampled fluid ex core	737	0.3	3.69	66.3	1.9	8	1	14.7	2.8	29.9	0.02	0.3	0.3	209	0.04	0.16
Starting fluid		0	0.3	0.04	0.3	5.2	14	1	14.0	2.9	3.06	0.02	0.3	0.3	1	0.04	0.07

Sample	Sample description	Total time	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm
			$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$
CT1	Sampled fluid ex core	89	1.9	1.26	166	0.01	0.02	0.06	1	0.04	0.01	0.013	0.004	0.03	0.004	0.03	0.004
CT2	Sampled fluid ex core	257	0.6	1.80	7.09	0.01	0.02	0.02	1	0.05	0.01	0.004	0.004	0.01	0.004	0.03	0.004
CT3	Sampled fluid ex core	426	0.4	2.14	3.19	0.01	0.02	0.02	1	0.05	0.01	0.004	0.004	0.01	0.004	0.03	0.004
CT4	Sampled fluid ex core	594	0.3	2.09	2.48	0.01	0.02	0.02	1	0.02	0.01	0.004	0.004	0.01	0.004	0.03	0.004
CT5	Sampled fluid ex core	737	0.3	1.86	2.09	0.01	0.02	0.02	1	0.02	0.01	0.004	0.004	0.01	0.004	0.03	0.004
Starting fluid		0	0.1	0.05	0.26	0.01	0.02	0.02	1	0.02	0.01	0.004	0.004	0.01	0.004	0.03	0.004
Fluid in pump at experiment end		761															

Sample	Sample description	Total time	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
			$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$	$\mu\text{g l}^{-1}$
CT1	Sampled fluid ex core	89	0.019	0.004	0.4	0.1	23.4	14.9	0.1	0.3	0.66
CT2	Sampled fluid ex core	257	0.004	0.004	0.1	0.1	76.8	0.53	0.1	0.3	0.25
CT3	Sampled fluid ex core	426	0.004	0.004	0.1	0.1	41.1	0.21	0.1	0.3	0.28
CT4	Sampled fluid ex core	594	0.004	0.004	0.1	0.1	29.5	0.13	0.1	0.3	0.54
CT5	Sampled fluid ex core	737	0.004	0.004	0.1	0.1	16.9	0.10	0.1	0.3	0.81
Starting fluid		0	0.004	0.004	0.1	0.1	0.2	0.02	0.1	0.3	0.04
Fluid in pump at experiment end		761									

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