

AnalystC Wilkinson

OwnerTad Riley

Sample nameDRL 84.8

SpectrometerMAP

Analysis modeIR Step Heating

Internal codeCS1b

laserIR

MineralBasalt Whole Rock

Irradiation Information

ReactorMcMaster, Canada

Duration40 hrs

MWH

Reactor position120 BE

J Value

GA1550 (99.738±0.104, Renne et al 2011)

Calculated J0.00293245 +/- 0.5%

Corrections

40Ar/36Aratmospheric298.56 (Lee et al 2006)

Decay constantsRenne et al 2011

Discriminationcorrection1.003106

⁴⁰Ar/³⁹Ar₀0.00065±0.00000325

³⁸Ar/³⁹Ar₀0.000265±0.000001325

³⁶Ar/³⁹Ar₀0.0085±0.0000425

Run No	Type	Comment	Date	Time	40Ar	+/-	39Ar	+/-	38Ar	+/-	37Ar	+/-	36Ar	+/-	40Ar*/39Ar	+/-	Age	+/-	+/- (no J error)	39/40	+/-	36/40	+/-	37/39	+/-	38/39	+/-	Comments
W22A48288	McM126 CS1b	Step 1	13/06/2022	11:21	0.0872	0.0010	0.0004	0.0001	0.0004	0.0000	0.0001	0.0005	0.0000	0.0000	17.1215	20.9425	72.88	157.80	157.66	0.0052	0.00076	0.00239	0.00011	8.34425	1.3534	0.11590	0.11304	Not included in plateau due to large error on age and negative 38Ar value
W22A48288	McM126 CS1b	Step 2	13/06/2022	12:04	0.0823	0.0012	0.0004	0.0001	0.0001	0.0000	0.0037	0.0005	0.0002	0.0000	32.2633	26.1166	163.47	126.52	126.52	0.00513	0.00074	0.00279	0.00044	8.64311	1.69484	0.12092	0.11321	Not included in plateau due to large error on age
W22A48290	McM126 CS1b	Step 3	13/06/2022	12:45	0.3090	0.0016	0.0064	0.0001	0.0003	0.0001	0.0492	0.0005	0.0007	0.0000	17.2369	2.1526	89.17	10.87	10.87	0.02058	0.00046	0.00216	0.00015	7.73428	0.18471	0.05304	0.00894	
W22A48292	McM126 CS1b	Step 4	13/06/2022	13:49	1.0473	0.0028	0.0495	0.0005	0.0013	0.0001	0.2047	0.0005	0.0008	0.0000	18.4775	0.3382	95.42	1.14	1.79	0.04152	0.00051	0.00078	0.00003	4.70663	0.05719	0.02962	0.00221	
W22A48294	McM126 CS1b	Step 5	13/06/2022	14:37	2.3824	0.0018	0.1129	0.0011	0.0011	0.0001	0.4648	0.0005	0.0010	0.0000	18.4871	0.2100	95.47	1.06	1.06	0.04740	0.00048	0.00041	0.00002	4.11673	0.04171	0.02779	0.00106	
W22A48296	McM126 CS1b	Step 6	13/06/2022	15:26	2.2801	0.0037	0.1123	0.0006	0.0031	0.0001	0.3939	0.0005	0.0005	0.0000	18.8749	0.1408	97.42	0.71	0.71	0.04926	0.00027	0.00024	0.00002	3.50700	0.01863	0.02730	0.00130	
W22A48298	McM126 CS1b	Step 7	13/06/2022	16:15	4.5559	0.0064	0.2315	0.0020	0.0062	0.0001	0.7771	0.0005	0.0005	0.0000	18.9936	0.1798	98.01	0.91	0.90	0.05080	0.00046	0.00012	0.00001	3.35743	0.02978	0.02685	0.00063	
W22A48301	McM126 CS1b	Step 8	13/06/2022	17:32	2.7552	0.0128	0.1411	0.0007	0.0038	0.0001	0.4330	0.0005	0.0002	0.0000	19.0244	0.1536	98.17	0.78	0.77	0.05122	0.00035	0.00009	0.00001	3.06826	0.01613	0.02665	0.00090	
W22A48305	McM126 CS1b	Step 9	15/06/2022	10:46	6.5894	0.0077	0.3465	0.0017	0.0093	0.0001	1.0127	0.0004	0.0003	0.0001	18.7245	0.1068	96.66	0.55	0.54	0.05258	0.00027	0.00005	0.00001	2.92264	0.01462	0.02672	0.00045	
W22A48307	McM126 CS1b	Step 10	15/06/2022	11:53	4.4284	0.0062	0.2310	0.0009	0.0060	0.0001	0.6783	0.0004	0.0002	0.0000	18.9551	0.0874	97.82	0.55	0.54	0.05215	0.00022	0.00004	0.00001	2.93685	0.01158	0.02588	0.00061	
W22A48311	McM126 CS1b	Step 11	15/06/2022	14:18	4.1888	0.0053	0.2204	0.0010	0.0055	0.0002	0.6484	0.0004	0.0002	0.0000	18.6995	0.1025	96.54	0.52	0.52	0.05261	0.00025	0.00005	0.00001	2.94205	0.01366	0.02513	0.00091	
W22A48313	McM126 CS1b	Step 12	15/06/2022	15:20	3.2293	0.0049	0.1669	0.0014	0.0047	0.0002	0.5117	0.0004	0.0003	0.0000	18.8976	0.1740	97.53	0.88	0.87	0.05168	0.00044	0.00008	0.00001	3.06592	0.02577	0.02810	0.00110	
W22A48315	McM126 CS1b	Step 13	15/06/2022	16:08	4.6319	0.0059	0.2431	0.0009	0.0060	0.0001	0.7293	0.0004	0.0002	0.0000	18.8280	0.0843	97.18	0.53	0.52	0.05248	0.00020	0.00004	0.00001	3.00051	0.01073	0.02467	0.00050	
W22A48317	McM126 CS1b	Step 14	15/06/2022	16:59	2.4130	0.0028	0.1263	0.0009	0.0029	0.0001	0.3644	0.0004	0.0001	0.0000	18.8222	0.1783	97.15	0.90	0.90	0.05232	0.00039	0.00005	0.00002	2.88583	0.02176	0.02322	0.00075	