

Relative Abundances			36Ar [fA]	%1σ	37Ar [fA]	%1σ	38Ar [fA]	%1σ	39Ar [fA]	%1σ	40Ar [fA]	%1σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
18D25419	1.8 %	✓	0.1053828	0.967	28.7072	1.501	0.236334	9.890	15.5229	0.155	43.4281	0.080	0.93991 ± 0.03946	2.67 ± 0.11	33.56	0.89	0.232 ± 0.007
18D25421	1.9 %	✓	0.0769624	1.273	37.0081	1.233	0.263892	9.029	21.1373	0.131	39.5059	0.086	0.93337 ± 0.02794	2.65 ± 0.08	49.88	1.21	0.245 ± 0.006
18D25422	2.0 %	✓	0.0377154	2.430	18.1412	2.318	0.153235	14.794	10.3231	0.223	19.4068	0.165	0.94128 ± 0.05347	2.67 ± 0.15	50.01	0.59	0.244 ± 0.011
18D25423	2.1 %	✓	0.0470262	1.978	31.2230	1.497	0.254687	9.295	18.6771	0.132	28.5263	0.115	0.91728 ± 0.03005	2.60 ± 0.09	59.99	1.07	0.257 ± 0.008
18D25425	2.2 %	✓	0.0307612	2.880	22.4780	1.901	0.153699	15.674	13.3293	0.179	19.9199	0.157	0.94761 ± 0.04008	2.69 ± 0.11	63.34	0.76	0.255 ± 0.010
18D25426	2.3 %	✓	0.0388634	2.346	32.7717	1.350	0.276428	8.404	20.2522	0.129	27.7546	0.119	0.93308 ± 0.02717	2.65 ± 0.08	68.01	1.16	0.265 ± 0.007
18D25427	2.4 %	✓	0.0307193	2.933	30.3246	1.428	0.224416	10.698	18.8512	0.131	24.2752	0.130	0.93504 ± 0.02882	2.65 ± 0.08	72.54	1.08	0.267 ± 0.008
18D25429	2.5 %	✓	0.0232807	3.780	22.8424	1.869	0.186335	12.889	14.6185	0.171	18.6245	0.174	0.92858 ± 0.03634	2.64 ± 0.10	72.81	0.84	0.275 ± 0.010
18D25430	2.7 %	✓	0.0409772	2.209	45.9127	0.986	0.383675	6.425	29.5165	0.101	35.9182	0.091	0.93125 ± 0.01854	2.64 ± 0.05	76.45	1.69	0.276 ± 0.005
18D25431	3.0 %	✓	0.0357709	2.528	45.3929	0.968	0.354939	6.745	29.8935	0.104	34.6683	0.093	0.92772 ± 0.01828	2.63 ± 0.05	79.92	1.71	0.283 ± 0.006
18D25433	3.4 %	✓	0.0471365	1.941	66.5086	0.773	0.538555	4.419	43.6690	0.083	49.3271	0.068	0.93256 ± 0.01273	2.65 ± 0.04	82.48	2.50	0.282 ± 0.004
18D25434	3.8 %	✓	0.0972620	1.020	158.5969	0.515	1.221118	1.879	101.6167	0.069	110.2320	0.031	0.92693 ± 0.00611	2.63 ± 0.02	85.36	5.81	0.275 ± 0.003
18D25435	4.2 %	✓	0.0569916	1.612	95.7043	0.629	0.777473	3.048	63.8474	0.075	68.3260	0.048	0.92639 ± 0.00882	2.63 ± 0.03	86.48	3.65	0.287 ± 0.004
18D25437	4.6 %	✓	0.1035344	0.950	191.9433	0.492	1.499260	1.592	126.1004	0.068	131.8963	0.029	0.92522 ± 0.00499	2.63 ± 0.01	88.37	7.22	0.282 ± 0.003
18D25438	5.2 %	✓	0.0706817	1.316	138.5817	0.543	1.129333	2.172	94.1117	0.070	96.7817	0.036	0.92432 ± 0.00618	2.62 ± 0.02	89.80	5.39	0.292 ± 0.003
18D25439	5.8 %	✓	0.1096336	0.950	212.8359	0.480	1.725170	1.459	144.1820	0.068	148.4979	0.026	0.92342 ± 0.00464	2.62 ± 0.01	89.57	8.25	0.291 ± 0.003
18D25441	6.5 %	✓	0.1096505	0.939	219.0521	0.484	1.819477	1.322	151.9590	0.068	155.2391	0.023	0.92375 ± 0.00439	2.62 ± 0.01	90.34	8.70	0.298 ± 0.003
18D25442	7.2 %	✓	0.0876004	1.144	174.6694	0.504	1.520600	1.455	124.8148	0.069	127.2159	0.028	0.92384 ± 0.00509	2.62 ± 0.01	90.56	7.14	0.307 ± 0.003
18D25443	8.0 %	✓	0.1022214	1.006	197.2426	0.494	1.656670	1.566	137.6270	0.068	142.0876	0.025	0.92765 ± 0.00478	2.63 ± 0.01	89.77	7.88	0.300 ± 0.003
18D25445	8.9 %	✓	0.1004470	1.024	184.0940	0.498	1.484843	1.609	124.4871	0.068	130.1253	0.026	0.92525 ± 0.00523	2.63 ± 0.01	88.43	7.12	0.290 ± 0.003
18D25446	9.7 %	✓	0.1035374	1.000	169.0956	0.508	1.332410	1.764	107.9005	0.069	116.9000	0.030	0.92535 ± 0.00601	2.63 ± 0.02	85.33	6.17	0.274 ± 0.003
18D25447	10.6 %	✓	0.0977875	1.027	137.7336	0.537	1.003682	2.296	81.8882	0.073	93.8159	0.037	0.92753 ± 0.00758	2.63 ± 0.02	80.87	4.69	0.255 ± 0.003
18D25449	11.6 %	✓	0.0933189	1.066	117.5791	0.581	0.823566	2.944	64.3680	0.076	77.6983	0.044	0.92509 ± 0.00948	2.63 ± 0.03	76.55	3.68	0.235 ± 0.003
18D25450	12.5 %	✓	0.1012428	0.971	103.6196	0.593	0.616458	3.798	48.9492	0.083	66.8362	0.050	0.92396 ± 0.01224	2.62 ± 0.03	67.58	2.80	0.203 ± 0.002
18D25451	13.4 %	✓	0.0909321	1.096	82.1928	0.700	0.439519	5.224	33.3562	0.095	51.2955	0.063	0.92995 ± 0.01810	2.64 ± 0.05	60.38	1.91	0.174 ± 0.002
18D25453	14.6 %		0.1185580	0.863	96.1689	0.624	0.419233	5.557	28.8422	0.107	53.6487	0.060	0.91316 ± 0.02149	2.59 ± 0.06	48.99	1.65	0.129 ± 0.002
18D25454	15.8 %		0.1388328	0.784	101.2954	0.605	0.331554	7.334	22.6361	0.123	53.1794	0.063	0.89641 ± 0.02910	2.54 ± 0.08	38.05	1.29	0.096 ± 0.001
18D25455	17.6 %		0.1703267	0.678	116.2225	0.582	0.326463	7.582	19.3187	0.138	57.8053	0.059	0.87032 ± 0.03618	2.47 ± 0.10	28.97	1.10	0.071 ± 0.001
18D25457	18.6 %		0.1957394	0.609	147.1689	0.517	0.216682	10.975	15.0254	0.170	58.7962	0.057	0.85066 ± 0.04827	2.41 ± 0.14	21.60	0.86	0.044 ± 0.000
18D25458	19.7 %		0.1515724	0.717	116.1839	0.590	0.169613	14.261	9.8602	0.234	44.3504	0.073	0.90290 ± 0.06711	2.56 ± 0.19	19.92	0.56	0.036 ± 0.000
18D25459	20.9 %		0.1013138	1.008	75.4764	0.713	0.097432	25.618	6.1627	0.375	29.1613	0.110	0.85832 ± 0.10057	2.44 ± 0.29	18.00	0.35	0.035 ± 0.001
18D25461	22.5 %		0.0962341	1.049	77.5436	0.726	0.080306	30.959	5.1257	0.436	26.9076	0.118	0.91828 ± 0.11988	2.61 ± 0.34	17.32	0.29	0.028 ± 0.000

Σ 2.8120145 0.200 3294.3107 0.116 21.717058 0.623 1747.9695 0.017 2182.1516 0.009

Information on Analysis and Constants Used in Calculations
Project = MCCLAUGHRY (18-09) Sample = 380-MCB-DRJ-17 Material = Groundmass Location = Bluegrass Ridge Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 18-OSU-04 (4C19-18) Position = X: 999 Y: 999 Z/H: 30.81 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 10.00748 ± 0.00741 FCT-NM J-value = 0.00157056 ± 0.00000116 Air Shot 40Ar/36Ar = 306.0020 ± 0.3733 Air Shot MDF = 0.99140890 ± 0.00064436 (LIN) Experiment Type = Incremental Heating Extraction Method = Bulk Laser Heating Heating = 64 sec Isolation = 5.10 min Instrument = ARGUS-VI-D Preferred Age = Plateau Age Age Classification = Eruption Age IGSN = Undefined Rock Class = Undefined Lithology = Undefined Lat-Lon = Undefined - Undefined

Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **36Ar**
Decay 40K = **5.530 ± 0.048 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Decay 40K(EC,β⁺) = **0.580 ± 0.009 E-10 1/a**
Decay 40K(β⁻) = **4.950 ± 0.043 E-10 1/a**
Atmospheric 40/36(a) = **295.50**
Atmospheric 38/36(a) = **0.1869**
Production 39/37(ca) = **0.0006425 ± 0.0000059**
Production 38/37(ca) = **0.0001800 ± 0.0000173**
Production 36/37(ca) = **0.0002703 ± 0.0000005**
Production 40/39(k) = **0.000607 ± 0.000059**
Production 38/39(k) = **0.012077 ± 0.000011**
Production 36/38(cl) = **262.80 ± 1.71**
Scaling Ratio K/Ca = **0.430**
Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		0.92548 ± 0.00156 ± 0.17%	2.63 ± 0.01 ± 0.22% Full External Error ± 0.06 Analytical Error ± 0.00	0.37 100% 1.58 1.0000	93.90 25	0.263 ± 0.016
Total Fusion Age		0.92407 ± 0.00197 ± 0.21%	2.62 ± 0.01 ± 0.26% Full External Error ± 0.06 Analytical Error ± 0.01		32	0.228 ± 0.001
Normal Isochron Overestimated Error	299.01 ± 4.00 ± 1.34%	0.92350 ± 0.00255 ± 0.28%	2.62 ± 0.01 ± 0.31% Full External Error ± 0.06 Analytical Error ± 0.01	0.28 100% 1.59 1.0000 29 0.0000092061	93.90 25	0.263 ± 0.016
Inverse Isochron Overestimated Error	298.53 ± 4.01 ± 1.34%	0.92396 ± 0.00255 ± 0.28%	2.62 ± 0.01 ± 0.31% Full External Error ± 0.06 Analytical Error ± 0.01	0.28 100% 1.59 1.0000 2 0.0004255940 58%	93.90 25	0.263 ± 0.016

Incremental Heating			36Ar(a) [fA]	37Ar(ca) [fA]	38Ar(cl) [fA]	39Ar(k) [fA]	40Ar(r) [fA]	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
18D25419	1.8 %	✓	0.0976175	28.7072	0.0256752	15.5044	14.5727	2.67 ± 0.11	33.56	0.89	0.232 ± 0.007
18D25421	1.9 %	✓	0.0669591	37.0081	0.0000000	21.1135	19.7067	2.65 ± 0.08	49.88	1.21	0.245 ± 0.006
18D25422	2.0 %	✓	0.0328075	18.1412	0.0193069	10.3115	9.7060	2.67 ± 0.15	50.01	0.59	0.244 ± 0.011
18D25423	2.1 %	✓	0.0385829	31.2230	0.0165346	18.6570	17.1137	2.60 ± 0.09	59.99	1.07	0.257 ± 0.008
18D25425	2.2 %	✓	0.0246854	22.4780	0.0000000	13.3149	12.6173	2.69 ± 0.11	63.34	0.76	0.255 ± 0.010
18D25426	2.3 %	✓	0.0300006	32.7717	0.0205914	20.2311	18.8772	2.65 ± 0.08	68.01	1.16	0.265 ± 0.007
18D25427	2.4 %	✓	0.0225226	30.3246	0.0000000	18.8317	17.6083	2.65 ± 0.08	72.54	1.08	0.267 ± 0.008
18D25429	2.5 %	✓	0.0171058	22.8424	0.0026559	14.6038	13.5608	2.64 ± 0.10	72.81	0.84	0.275 ± 0.010
18D25430	2.7 %	✓	0.0285639	45.9127	0.0139580	29.4870	27.4596	2.64 ± 0.05	76.45	1.69	0.276 ± 0.005
18D25431	3.0 %	✓	0.0235012	45.3929	0.0000000	29.8643	27.7056	2.63 ± 0.05	79.92	1.71	0.283 ± 0.006
18D25433	3.4 %	✓	0.0291593	66.5086	0.0000000	43.6263	40.6840	2.65 ± 0.04	82.48	2.50	0.282 ± 0.004
18D25434	3.8 %	✓	0.0543933	158.5969	0.0000000	101.5148	94.0972	2.63 ± 0.02	85.36	5.81	0.275 ± 0.003
18D25435	4.2 %	✓	0.0311227	95.7043	0.0000000	63.7859	59.0905	2.63 ± 0.03	86.48	3.65	0.287 ± 0.004
18D25437	4.6 %	✓	0.0516522	191.9433	0.0000000	125.9770	116.5566	2.63 ± 0.01	88.37	7.22	0.282 ± 0.003
18D25438	5.2 %	✓	0.0332231	138.5817	0.0000000	94.0227	86.9072	2.62 ± 0.02	89.80	5.39	0.292 ± 0.003
18D25439	5.8 %	✓	0.0521040	212.8359	0.0000000	144.0453	133.0137	2.62 ± 0.01	89.57	8.25	0.291 ± 0.003
18D25441	6.5 %	✓	0.0504408	219.0521	0.0000000	151.8182	140.2417	2.62 ± 0.01	90.34	8.70	0.298 ± 0.003
18D25442	7.2 %	✓	0.0403873	174.6694	0.0000000	124.7026	115.2058	2.62 ± 0.01	90.56	7.14	0.307 ± 0.003
18D25443	8.0 %	✓	0.0489067	197.2426	0.0000000	137.5002	127.5522	2.63 ± 0.01	89.77	7.88	0.300 ± 0.003
18D25445	8.9 %	✓	0.0506864	184.0940	0.0000000	124.3688	115.0720	2.63 ± 0.01	88.43	7.12	0.290 ± 0.003
18D25446	9.7 %	✓	0.0578308	169.0956	0.0000000	107.7918	99.7456	2.63 ± 0.02	85.33	6.17	0.274 ± 0.003
18D25447	10.6 %	✓	0.0605581	137.7336	0.0000000	81.7997	75.8713	2.63 ± 0.02	80.87	4.69	0.255 ± 0.003
18D25449	11.6 %	✓	0.0615341	117.5791	0.0144415	64.2924	59.4760	2.63 ± 0.03	76.55	3.68	0.235 ± 0.003
18D25450	12.5 %	✓	0.0732344	103.6196	0.0000000	48.8826	45.1658	2.62 ± 0.03	67.58	2.80	0.203 ± 0.002
18D25451	13.4 %	✓	0.0687132	82.1928	0.0096770	33.3034	30.9705	2.64 ± 0.05	60.38	1.91	0.174 ± 0.002
18D25453	14.6 %		0.0925552	96.1689	0.0370432	28.7804	26.2811	2.59 ± 0.06	48.99	1.65	0.129 ± 0.002
18D25454	15.8 %		0.1114481	101.2954	0.0199007	22.5710	20.2328	2.54 ± 0.08	38.05	1.29	0.096 ± 0.001
18D25455	17.6 %		0.1389011	116.2225	0.0471726	19.2440	16.7484	2.47 ± 0.10	28.97	1.10	0.071 ± 0.001
18D25457	18.6 %		0.1559596	147.1689	0.0000000	14.9308	12.7010	2.41 ± 0.14	21.60	0.86	0.044 ± 0.000
18D25458	19.7 %		0.1201661	116.1839	0.0080600	9.7856	8.8354	2.56 ± 0.19	19.92	0.56	0.036 ± 0.000
18D25459	20.9 %		0.0809125	75.4764	0.0000000	6.1142	5.2480	2.44 ± 0.29	18.00	0.35	0.035 ± 0.001
18D25461	22.5 %		0.0752741	77.5436	0.0000000	5.0759	4.6610	2.61 ± 0.34	17.32	0.29	0.028 ± 0.000
Σ			1.9215093	3294.3107	0.2350170	1745.8529	1613.2859				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% <i>n</i>)	K/Ca ± 2σ
Project = MCCLAUGHRY (18-09) Sample = 380-MCB-DRJ-17 Material = Groundmass Location = Bluegrass Ridge Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 18-OSU-04 (4C19-18) J = 0.00157056 ± 0.00000116 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	0.92548 ± 0.00156 ± 0.17% Full External Error ± 0.06 Analytical Error ± 0.00	2.63 ± 0.01 ± 0.22%	0.37 100% 1.58 1.0000	93.90 25 2σ Confidence Limit Error Magnification	0.263 ± 0.016
	Total Fusion Age	0.92407 ± 0.00197 ± 0.21% Full External Error ± 0.06 Analytical Error ± 0.01	2.62 ± 0.01 ± 0.26%		32	0.228 ± 0.001

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
18D25419	1.8 %	✓	158.83 ± 3.37	444.78 ± 9.37	0.9865
18D25421	1.9 %	✓	315.32 ± 9.34	589.81 ± 17.43	0.9944
18D25422	2.0 %	✓	314.30 ± 17.75	591.35 ± 33.35	0.9952
18D25423	2.1 %	✓	483.56 ± 23.57	739.06 ± 36.01	0.9974
18D25425	2.2 %	✓	539.38 ± 39.09	806.62 ± 58.44	0.9978
18D25426	2.3 %	✓	674.36 ± 41.38	924.73 ± 56.74	0.9984
18D25427	2.4 %	✓	836.13 ± 67.50	1077.31 ± 86.98	0.9989
18D25429	2.5 %	✓	853.73 ± 88.66	1088.26 ± 113.01	0.9989
18D25430	2.7 %	✓	1032.32 ± 66.09	1256.84 ± 80.45	0.9991
18D25431	3.0 %	✓	1270.76 ± 98.68	1474.40 ± 114.48	0.9994
18D25433	3.4 %	✓	1496.14 ± 95.05	1690.74 ± 107.40	0.9994
18D25434	3.8 %	✓	1866.31 ± 69.98	2025.44 ± 75.91	0.9992
18D25435	4.2 %	✓	2049.50 ± 123.05	2194.13 ± 131.71	0.9996
18D25437	4.6 %	✓	2438.95 ± 96.43	2552.07 ± 100.85	0.9993
18D25438	5.2 %	✓	2830.04 ± 162.58	2911.37 ± 167.21	0.9996
18D25439	5.8 %	✓	2764.57 ± 114.85	2848.35 ± 118.27	0.9994
18D25441	6.5 %	✓	3009.83 ± 128.15	3075.83 ± 130.91	0.9994
18D25442	7.2 %	✓	3087.67 ± 157.96	3148.03 ± 161.00	0.9996
18D25443	8.0 %	✓	2811.48 ± 122.57	2903.57 ± 126.53	0.9994
18D25445	8.9 %	✓	2453.69 ± 102.86	2565.77 ± 107.50	0.9994
18D25446	9.7 %	✓	1863.92 ± 68.66	2020.28 ± 74.38	0.9992
18D25447	10.6 %	✓	1350.76 ± 45.80	1548.37 ± 52.46	0.9988
18D25449	11.6 %	✓	1044.83 ± 34.45	1262.05 ± 41.59	0.9986
18D25450	12.5 %	✓	667.48 ± 18.23	912.23 ± 24.88	0.9975
18D25451	13.4 %	✓	484.67 ± 14.27	746.22 ± 21.94	0.9970
18D25453	14.6 %		310.95 ± 7.00	579.45 ± 12.99	0.9940
18D25454	15.8 %		202.52 ± 4.04	477.04 ± 9.46	0.9903
18D25455	17.6 %		138.54 ± 2.37	416.08 ± 7.03	0.9843
18D25457	18.6 %		95.74 ± 1.52	376.94 ± 5.87	0.9739
18D25458	19.7 %		81.43 ± 1.54	369.03 ± 6.80	0.9655
18D25459	20.9 %		75.57 ± 2.01	360.36 ± 9.23	0.9552
18D25461	22.5 %		67.43 ± 1.92	357.42 ± 9.74	0.9477

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	299.01 ± 4.00	0.92350 ± 0.00255	2.62 ± 0.01	0.28
Overestimated Error	± 1.34%	± 0.28%	± 0.31%	100%
			Full External Error ± 0.06	
			Analytical Error ± 0.01	
Statistics	2σ Confidence Limit	1.59	Convergence	0.000009206084
	Error Magnification	1.0000	Number of Iterations	29
	Number of Data Points	25	Calculated Line	Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
18D25419	1.8 %	✓	0.3570909 ± 0.0012443	0.00224828 ± 0.00004738	0.0348
18D25421	1.9 %	✓	0.5346133 ± 0.0016786	0.00169546 ± 0.00005010	0.0317
18D25422	2.0 %	✓	0.5315023 ± 0.0029470	0.00169106 ± 0.00009538	0.0348
18D25423	2.1 %	✓	0.6542899 ± 0.0023011	0.00135308 ± 0.00006592	0.0311
18D25425	2.2 %	✓	0.6686926 ± 0.0031929	0.00123973 ± 0.00008982	0.0287
18D25426	2.3 %	✓	0.7292506 ± 0.0025642	0.00108140 ± 0.00006635	0.0265
18D25427	2.4 %	✓	0.7761263 ± 0.0028730	0.00092824 ± 0.00007494	0.0228
18D25429	2.5 %	✓	0.7844934 ± 0.0038318	0.00091890 ± 0.00009542	0.0240
18D25430	2.7 %	✓	0.8213588 ± 0.0022277	0.00079565 ± 0.00005093	0.0190
18D25431	3.0 %	✓	0.8618804 ± 0.0023981	0.00067824 ± 0.00005266	0.0159
18D25433	3.4 %	✓	0.8849037 ± 0.0018970	0.00059146 ± 0.00003757	0.0135
18D25434	3.8 %	✓	0.9214340 ± 0.0014077	0.00049372 ± 0.00001850	0.0070
18D25435	4.2 %	✓	0.9340813 ± 0.0016625	0.00045576 ± 0.00002736	0.0086
18D25437	4.6 %	✓	0.9556758 ± 0.0014154	0.00039184 ± 0.00001548	0.0058
18D25438	5.2 %	✓	0.9720656 ± 0.0015419	0.00034348 ± 0.00001973	0.0060
18D25439	5.8 %	✓	0.9705871 ± 0.0014107	0.00035108 ± 0.00001458	0.0046
18D25441	6.5 %	✓	0.9785446 ± 0.0014048	0.00032512 ± 0.00001384	0.0037
18D25442	7.2 %	✓	0.9808271 ± 0.0014610	0.00031766 ± 0.00001625	0.0043
18D25443	8.0 %	✓	0.9682830 ± 0.0014112	0.00034440 ± 0.00001501	0.0041
18D25445	8.9 %	✓	0.9563169 ± 0.0014089	0.00038975 ± 0.00001633	0.0047
18D25446	9.7 %	✓	0.9226019 ± 0.0013945	0.00049498 ± 0.00001822	0.0066
18D25447	10.6 %	✓	0.8723791 ± 0.0014350	0.00064584 ± 0.00002188	0.0098
18D25449	11.6 %	✓	0.8278777 ± 0.0014520	0.00079236 ± 0.00002611	0.0133
18D25450	12.5 %	✓	0.7317038 ± 0.0014253	0.00109622 ± 0.00002990	0.0190
18D25451	13.4 %	✓	0.6495016 ± 0.0014878	0.00134008 ± 0.00003941	0.0238
18D25453	14.6 %		0.5366359 ± 0.0013244	0.00172577 ± 0.00003870	0.0264
18D25454	15.8 %		0.4245408 ± 0.0011737	0.00209624 ± 0.00004156	0.0288
18D25455	17.6 %		0.3329778 ± 0.0010047	0.00240340 ± 0.00004059	0.0271
18D25457	18.6 %		0.2539815 ± 0.0009178	0.00265296 ± 0.00004135	0.0227
18D25458	19.7 %		0.2206719 ± 0.0010894	0.00270983 ± 0.00004993	0.0236
18D25459	20.9 %		0.2096951 ± 0.0016530	0.00277501 ± 0.00007109	0.0242
18D25461	22.5 %		0.1886617 ± 0.0017193	0.00279782 ± 0.00007623	0.0224

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	298.53 ± 4.01	0.92396 ± 0.00255	2.62 ± 0.01	0.28
Overestimated Error	± 1.34%	± 0.28%	± 0.31%	100%
			Full External Error ± 0.06	
			Analytical Error ± 0.01	
Statistics	2σ Confidence Limit	1.59	Convergence	0.0004255940
	Error Magnification	1.0000	Number of Iterations	2
	Number of Data Points	25	Calculated Line	Weighted York-2
	Spreading Factor	57.6%		

Degassing Patterns			36Ar(a) [fA]	%1σ	36Ar(c) [fA]	%1σ	36Ar(ca) [fA]	%1σ	36Ar(cl) [fA]	%1σ	37Ar(ca) [fA]	%1σ	38Ar(a) [fA]	%1σ	38Ar(c) [fA]	%1σ	38Ar(k) [fA]	%1σ	38Ar(ca) [fA]	%1σ	38Ar(cl) [fA]	%1σ	39Ar(k) [fA]	%1σ	39Ar(ca) [fA]	%1σ	40Ar(r) [fA]	%1σ	40Ar(a) [fA]	%1σ	40Ar(c) [fA]	%1σ	40Ar(k) [fA]	%1σ
18D25419	1.8 %	✓	0.0976175	1.05	0.0000000	0.00	0.0077596	1.51	0.0000058	91.08	28.7072	1.50	0.0182447	1.05	0.0000000	0.00	0.187247	0.18	0.0051673	9.75	0.0256752	91.08	15.5044	0.15	0.0184444	1.76	14.5727	2.09	28.84596	1.05	0.0000000	0.00	0.0094112	9.65
18D25421	1.9 %	✓	0.0669591	1.48	0.0000000	0.00	0.0100033	1.24	0.0000000	0.00	37.0081	1.23	0.0125147	1.48	0.0000000	0.00	0.254988	0.16	0.0066615	9.71	0.0000000	0.00	21.1135	0.13	0.0237777	1.54	19.7067	1.49	19.78641	1.48	0.0000000	0.00	0.0128159	9.65
18D25422	2.0 %	✓	0.0328075	2.82	0.0000000	0.00	0.0049036	2.32	0.0000043	117.45	18.1412	2.32	0.0061317	2.82	0.0000000	0.00	0.124531	0.24	0.0032654	9.91	0.0193069	117.45	10.3115	0.22	0.0116557	2.49	9.7060	2.83	9.69462	2.82	0.0000000	0.00	0.0062591	9.65
18D25423	2.1 %	✓	0.0385829	2.43	0.0000000	0.00	0.0084396	1.51	0.0000037	143.24	31.2230	1.50	0.0072111	2.43	0.0000000	0.00	0.225321	0.16	0.0056201	9.75	0.0165346	143.24	18.6570	0.13	0.0200607	1.76	17.1137	1.63	11.40125	2.43	0.0000000	0.00	0.0113248	9.65
18D25425	2.2 %	✓	0.0246854	3.62	0.0000000	0.00	0.0060758	1.91	0.0000000	0.00	22.4780	1.90	0.0046137	3.62	0.0000000	0.00	0.160804	0.20	0.0040460	9.82	0.0000000	0.00	13.3149	0.18	0.0144421	2.11	12.6173	2.11	7.29452	3.62	0.0000000	0.00	0.0080821	9.65
18D25426	2.3 %	✓	0.0300006	3.07	0.0000000	0.00	0.0088582	1.36	0.0000046	112.89	32.7717	1.35	0.0056071	3.07	0.0000000	0.00	0.244331	0.16	0.0058989	9.72	0.0205914	112.89	20.2311	0.13	0.0210558	1.63	18.8772	1.45	8.86517	3.07	0.0000000	0.00	0.0122803	9.65
18D25427	2.4 %	✓	0.0225226	4.03	0.0000000	0.00	0.0081967	1.44	0.0000000	0.00	30.3246	1.43	0.0042095	4.03	0.0000000	0.00	0.227431	0.16	0.0054584	9.74	0.0000000	0.00	18.8317	0.13	0.0194835	1.70	17.6083	1.54	6.65541	4.03	0.0000000	0.00	0.0114309	9.65
18D25429	2.5 %	✓	0.0171058	5.19	0.0000000	0.00	0.0061743	1.88	0.0000006	904.54	22.8424	1.87	0.0031971	5.19	0.0000000	0.00	0.176370	0.19	0.0041116	9.81	0.0026559	904.54	14.6038	0.17	0.0146763	2.08	13.5608	1.95	5.05478	5.19	0.0000000	0.00	0.0088645	9.65
18D25430	2.7 %	✓	0.0285639	3.20	0.0000000	0.00	0.0124102	1.00	0.0000031	176.74	45.9127	0.99	0.0053386	3.20	0.0000000	0.00	0.356114	0.14	0.0082643	9.68	0.0139580	176.74	29.4870	0.10	0.0294989	1.35	27.4596	0.99	8.44064	3.20	0.0000000	0.00	0.0178986	9.65
18D25431	3.0 %	✓	0.0235012	3.88	0.0000000	0.00	0.0122697	0.98	0.0000000	0.00	45.3929	0.97	0.0043924	3.88	0.0000000	0.00	0.360672	0.14	0.0081707	9.68	0.0000000	0.00	29.8643	0.10	0.0291649	1.34	27.7056	0.98	6.94461	3.88	0.0000000	0.00	0.0181276	9.65
18D25433	3.4 %	✓	0.0291593	3.18	0.0000000	0.00	0.0179773	0.79	0.0000000	0.00	66.5086	0.77	0.0054499	3.18	0.0000000	0.00	0.526875	0.12	0.0119715	9.66	0.0000000	0.00	43.6263	0.08	0.0427318	1.20	40.6840	0.68	8.61656	3.18	0.0000000	0.00	0.0264812	9.65
18D25434	3.8 %	✓	0.0543933	1.87	0.0000000	0.00	0.0428687	0.54	0.0000000	0.00	158.5969	0.51	0.0101661	1.87	0.0000000	0.00	1.225994	0.11	0.0285474	9.64	0.0000000	0.00	101.5148	0.07	0.1018985	1.05	94.0972	0.32	16.07321	1.87	0.0000000	0.00	0.0616195	9.65
18D25435	4.2 %	✓	0.0311227	3.00	0.0000000	0.00	0.0258689	0.65	0.0000000	0.00	95.7043	0.63	0.0058168	3.00	0.0000000	0.00	0.770342	0.12	0.0172268	9.65	0.0000000	0.00	63.7859	0.07	0.0614900	1.11	59.0905	0.47	9.19676	3.00	0.0000000	0.00	0.0387180	9.65
18D25437	4.6 %	✓	0.0516522	1.98	0.0000000	0.00	0.0518823	0.52	0.0000000	0.00	191.9433	0.49	0.0096538	1.98	0.0000000	0.00	1.521425	0.11	0.0345498	9.64	0.0000000	0.00	125.9770	0.07	0.1233236	1.04	116.5566	0.26	15.26322	1.98	0.0000000	0.00	0.0764681	9.65
18D25438	5.2 %	✓	0.0332231	2.87	0.0000000	0.00	0.0374586	0.57	0.0000000	0.00	138.5817	0.54	0.0062094	2.87	0.0000000	0.00	1.135512	0.11	0.0249447	9.65	0.0000000	0.00	94.0227	0.07	0.0890387	1.07	86.9072	0.33	9.81741	2.87	0.0000000	0.00	0.0570718	9.65
18D25439	5.8 %	✓	0.0521040	2.08	0.0000000	0.00	0.0575295	0.51	0.0000000	0.00	212.8359	0.48	0.0097382	2.08	0.0000000	0.00	1.739635	0.11	0.0383105	9.64	0.0000000	0.00	144.0453	0.07	0.1367470	1.04	133.0137	0.24	15.39674	2.08	0.0000000	0.00	0.0874355	9.65
18D25441	6.5 %	✓	0.0504408	2.13	0.0000000	0.00	0.0592098	0.51	0.0000000	0.00	219.0521	0.48	0.0094274	2.13	0.0000000	0.00	1.833509	0.11	0.0394294	9.64	0.0000000	0.00	151.8182	0.07	0.1407410	1.04	140.2417	0.23	14.90524	2.13	0.0000000	0.00	0.0921537	9.65
18D25442	7.2 %	✓	0.0403873	2.56	0.0000000	0.00	0.0472131	0.53	0.0000000	0.00	174.6694	0.50	0.0075484	2.56	0.0000000	0.00	1.506033	0.11	0.0314405	9.64	0.0000000	0.00	124.7026	0.07	0.1122251	1.05	115.2058	0.27	11.93443	2.56	0.0000000	0.00	0.0756945	9.65
18D25443	8.0 %	✓	0.0489067	2.18	0.0000000	0.00	0.0533147	0.52	0.0000000	0.00	197.2426	0.49	0.0091407	2.18	0.0000000	0.00	1.660590	0.11	0.0355037	9.64	0.0000000	0.00	137.5002	0.07	0.1267283	1.04	127.5522	0.25	14.45194	2.18	0.0000000	0.00	0.0834626	9.65
18D25445	8.9 %	✓	0.0506864	2.09	0.0000000	0.00	0.0497606	0.53	0.0000000	0.00	184.0940	0.50	0.0094733	2.09	0.0000000	0.00	1.502003	0.11	0.0331369	9.64	0.0000000	0.00	124.3688	0.07	0.1182804	1.05	115.0720	0.27	14.97783	2.09	0.0000000	0.00	0.0754919	9.65
18D25446	9.7 %	✓	0.0578308	1.84	0.0000000	0.00	0.0457066	0.54	0.0000000	0.00	169.0956	0.51	0.0108086	1.84	0.0000000	0.00	1.301802	0.11	0.0304372	9.64	0.0000000	0.00	107.7918	0.07	0.1086440	1.05	99.7456	0.32	17.08901	1.84	0.0000000	0.00	0.0654296	9.65
18D25447	10.6 %	✓	0.0605581	1.69	0.0000000	0.00	0.0372294	0.56	0.0000000	0.00	137.7336	0.54	0.0113183	1.69	0.0000000	0.00	0.987895	0.12	0.0247920	9.64	0.0000000	0.00	81.7997	0.07	0.0884938	1.07	75.8713	0.40	17.89492	1.69	0.0000000	0.00	0.0496524	9.65
18D25449	11.6 %	✓	0.0615341	1.65	0.0000000	0.00	0.0317816	0.61	0.0000033	168.63	117.5791	0.58	0.0115007	1.65	0.0000000	0.00	0.776460	0.12	0.0211642	9.65	0.0144415	168.64	64.2924	0.08	0.0755446	1.09	59.4760	0.51	18.18331	1.65	0.0000000	0.00	0.0390255	9.65
18D25450	12.5 %	✓	0.0732344	1.36	0.0000000	0.00	0.0280084	0.62	0.0000000	0.00	103.6196	0.59	0.0136875	1.36	0.0000000	0.00	0.590355	0.12	0.0186515	9.65	0.0000000	0.00	48.8826	0.08	0.0665756	1.09	45.1658	0.66	21.64077	1.36	0.0000000	0.00	0.0296717	9.65
18D25451	13.4 %	✓	0.0687132	1.47	0.0000000	0.00	0.0222167	0.72	0.0000022	237.80	82.1928	0.70	0.0128425	1.47	0.0000000	0.00	0.402205	0.13	0.0147947	9.66	0.0096770	237.80	33.3034	0.10	0.0528089	1.16	30.9705	0.97	20.30474	1.47	0.0000000	0.00	0.0202151	9.65
18D25453	14.6 %		0.0925552	1.12	0.0000000	0.00	0.0259945	0.65	0.0000083	63.08	96.1689	0.62	0.0172986	1.12	0.0000000	0.00	0.347581	0.14	0.0173104	9.65	0.0370432	63.08	28.7804	0.11	0.0617885	1.11	26.2811	1.17	27.35007	1.12	0.0000000	0.00	0.0174697	9.65
18D25454	15.8 %		0.1114481	0.99	0.0000000	0.00	0.0273801	0.63	0.0000045	122.53	101.2954	0.61	0.0208297	0.99	0.0000000	0.00	0.272590	0.15	0.0182332	9.65	0.0199007	122.53	22.5710	0.12	0.0650823	1.10	20.2328	1.62	32.93293	0.99	0.0000000	0.00	0.0137006	9.65
18D25455	17.6 %		0.1389011	0.84	0.0000000	0.00	0.0314149	0.61	0.0000106	52.67	116.2225	0.58	0.0259606	0.84	0.0000000	0.00	0.232410	0.17	0.0209201	9.65	0.0471726	52.68	19.2440	0.14	0.0746730	1.09	16.7484	2.07	41.04527	0.84	0.0000000	0.00	0.0116811	9.65
18D25457	18.6 %		0.1559596	0.78	0.0000000	0.00	0.0397797	0.54	0.0000000	0.00	147.1689	0.52	0.0291489	0.78	0.0000000	0.00	0.180320	0.19	0.0264904	9.64	0.0000000	0.00	14.9308	0.17	0.0945560	1.06	12.7010	2.83	46.08607	0.78	0.0000000	0.00	0.0090630	9.65
18D25458	19.7 %		0.1201661	0.92	0.0000000	0.00	0.0314045	0.61	0.0000018	301.20	116.1839	0.59	0.0224590	0.92	0.0000000	0.00	0.118181	0.25	0.0209131	9.65	0.0080600	301.20	9.7856	0.24	0.0746482	1.09	8.8354	3.71	35.50908	0.92	0.0000000	0.00	0.0059399	9.65
18D25459	20.9 %		0.0809125	1.28	0.0000000	0.00	0.0204013	0.73																										

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
18D25419	1.8 %	✓	2.797686	0.004869	1.849352	0.027907	0.006789	0.000066	138.483	15.452809	1.00097850	2.085E-12
18D25421	1.9 %	✓	1.869013	0.002931	1.750844	0.021707	0.003641	0.000047	138.502	15.458533	1.00097863	1.896E-12
18D25422	2.0 %	✓	1.879942	0.005207	1.757336	0.040927	0.003653	0.000089	138.511	15.461290	1.00097869	9.315E-13
18D25423	2.1 %	✓	1.527339	0.002683	1.671724	0.025130	0.002518	0.000050	138.520	15.464047	1.00097876	1.369E-12
18D25425	2.2 %	✓	1.494441	0.003564	1.686359	0.032201	0.002308	0.000067	138.538	15.469563	1.00097889	9.562E-13
18D25426	2.3 %	✓	1.370451	0.002407	1.618184	0.021947	0.001919	0.000045	138.547	15.472321	1.00097895	1.332E-12
18D25427	2.4 %	✓	1.287725	0.002381	1.608627	0.023065	0.001630	0.000048	138.556	15.475081	1.00097901	1.165E-12
18D25429	2.5 %	✓	1.274035	0.003109	1.562570	0.029334	0.001593	0.000060	138.575	15.480813	1.00097915	8.940E-13
18D25430	2.7 %	✓	1.216884	0.001648	1.555492	0.015412	0.001388	0.000031	138.584	15.483574	1.00097921	1.724E-12
18D25431	3.0 %	✓	1.159728	0.001611	1.518486	0.014788	0.001197	0.000030	138.593	15.486335	1.00097927	1.664E-12
18D25433	3.4 %	✓	1.129567	0.001208	1.523015	0.011847	0.001079	0.000021	138.611	15.491859	1.00097940	2.368E-12
18D25434	3.8 %	✓	1.084783	0.000826	1.560737	0.008109	0.000957	0.000010	138.620	15.494622	1.00097947	5.291E-12
18D25435	4.2 %	✓	1.070146	0.000950	1.498955	0.009498	0.000893	0.000014	138.629	15.497385	1.00097953	3.280E-12
18D25437	4.6 %	✓	1.045963	0.000772	1.522147	0.007563	0.000821	0.000008	138.647	15.502913	1.00097966	6.331E-12
18D25438	5.2 %	✓	1.028370	0.000813	1.472523	0.008055	0.000751	0.000010	138.657	15.505890	1.00097972	4.646E-12
18D25439	5.8 %	✓	1.029933	0.000745	1.476161	0.007155	0.000760	0.000007	138.666	15.508655	1.00097979	7.128E-12
18D25441	6.5 %	✓	1.021586	0.000730	1.441522	0.007051	0.000722	0.000007	138.684	15.514187	1.00097992	7.451E-12
18D25442	7.2 %	✓	1.019237	0.000756	1.399429	0.007116	0.000702	0.000008	138.693	15.516954	1.00097998	6.106E-12
18D25443	8.0 %	✓	1.032411	0.000749	1.433168	0.007141	0.000743	0.000007	138.702	15.519721	1.00098004	6.820E-12
18D25445	8.9 %	✓	1.045291	0.000767	1.478820	0.007427	0.000807	0.000008	138.720	15.525257	1.00098017	6.246E-12
18D25446	9.7 %	✓	1.083406	0.000816	1.567145	0.008040	0.000960	0.000010	138.729	15.528025	1.00098024	5.611E-12
18D25447	10.6 %	✓	1.145658	0.000939	1.681970	0.009111	0.001194	0.000012	138.739	15.531008	1.00098030	4.503E-12
18D25449	11.6 %	✓	1.207096	0.001056	1.826671	0.010704	0.001450	0.000015	138.757	15.536547	1.00098043	3.730E-12
18D25450	12.5 %	✓	1.365421	0.001327	2.116881	0.012682	0.002068	0.000020	138.766	15.539318	1.00098050	3.208E-12
18D25451	13.4 %	✓	1.537811	0.001758	2.464096	0.017408	0.002726	0.000030	138.775	15.542089	1.00098056	2.462E-12
18D25453	14.6 %		1.860074	0.002290	3.334310	0.021109	0.004111	0.000036	138.793	15.547633	1.00098069	2.575E-12
18D25454	15.8 %		2.349319	0.003238	4.474949	0.027627	0.006133	0.000049	138.802	15.550406	1.00098075	2.553E-12
18D25455	17.6 %		2.992200	0.004497	6.016071	0.035970	0.008817	0.000061	138.812	15.553392	1.00098082	2.775E-12
18D25457	18.6 %		3.913120	0.007025	9.794676	0.053319	0.013027	0.000082	138.830	15.558940	1.00098095	2.822E-12
18D25458	19.7 %		4.497909	0.011020	11.783075	0.074743	0.015372	0.000116	138.839	15.561715	1.00098101	2.129E-12
18D25459	20.9 %		4.731906	0.018510	12.247308	0.098710	0.016440	0.000177	138.848	15.564490	1.00098107	1.400E-12
18D25461	22.5 %		5.249574	0.023696	15.128468	0.128041	0.018775	0.000213	138.866	15.570042	1.00098120	1.292E-12

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
18D25419	1.8 %	0.0234902 ± 0.0007502	0.0254088 ± 0.0190886	0.0556573 ± 0.0165314	0.0245728 ± 0.0154163	6.7398265 ± 0.0261847
18D25421	1.9 %	0.0235697 ± 0.0007502	0.0301795 ± 0.0190886	0.0557340 ± 0.0165314	0.0208403 ± 0.0154163	6.7045398 ± 0.0261847
18D25422	2.0 %	0.0235965 ± 0.0007502	0.0317611 ± 0.0190886	0.0553335 ± 0.0165314	0.0201386 ± 0.0154163	6.6878473 ± 0.0261847
18D25423	2.1 %	0.0236162 ± 0.0007502	0.0329513 ± 0.0190886	0.0547263 ± 0.0165314	0.0200005 ± 0.0154163	6.6714906 ± 0.0261847
18D25425	2.2 %	0.0236356 ± 0.0007502	0.0343574 ± 0.0190886	0.0530961 ± 0.0165314	0.0210194 ± 0.0154163	6.6401615 ± 0.0261847
18D25426	2.3 %	0.0236360 ± 0.0007502	0.0346659 ± 0.0190886	0.0521659 ± 0.0165314	0.0219947 ± 0.0154163	6.6253598 ± 0.0261847
18D25427	2.4 %	0.0236306 ± 0.0007502	0.0347684 ± 0.0190886	0.0512143 ± 0.0165314	0.0231706 ± 0.0154163	6.6112356 ± 0.0261847
18D25429	2.5 %	0.0236026 ± 0.0007502	0.0344890 ± 0.0190886	0.0493244 ± 0.0165314	0.0259390 ± 0.0154163	6.5843509 ± 0.0261847
18D25430	2.7 %	0.0235818 ± 0.0007502	0.0341900 ± 0.0190886	0.0485204 ± 0.0165314	0.0272950 ± 0.0154163	6.5727053 ± 0.0261847
18D25431	3.0 %	0.0235568 ± 0.0007502	0.0338264 ± 0.0190886	0.0478204 ± 0.0165314	0.0285904 ± 0.0154163	6.5619691 ± 0.0261847
18D25433	3.4 %	0.0234957 ± 0.0007502	0.0330115 ± 0.0190886	0.0468126 ± 0.0165314	0.0308167 ± 0.0154163	6.5433741 ± 0.0261847
18D25434	3.8 %	0.0234606 ± 0.0007502	0.0326063 ± 0.0190886	0.0465352 ± 0.0165314	0.0316729 ± 0.0154163	6.5355723 ± 0.0261847
18D25435	4.2 %	0.0234230 ± 0.0007502	0.0322287 ± 0.0190886	0.0464225 ± 0.0165314	0.0323190 ± 0.0154163	6.5287938 ± 0.0261847
18D25437	4.6 %	0.0233423 ± 0.0007502	0.0316163 ± 0.0190886	0.0467099 ± 0.0165314	0.0329041 ± 0.0154163	6.5183430 ± 0.0261847
18D25438	5.2 %	0.0232969 ± 0.0007502	0.0313914 ± 0.0190886	0.0471471 ± 0.0165314	0.0328044 ± 0.0154163	6.5144314 ± 0.0261847
18D25439	5.8 %	0.0232542 ± 0.0007502	0.0312593 ± 0.0190886	0.0477227 ± 0.0165314	0.0324485 ± 0.0154163	6.5118623 ± 0.0261847
18D25441	6.5 %	0.0231695 ± 0.0007502	0.0312307 ± 0.0190886	0.0493190 ± 0.0165314	0.0310072 ± 0.0154163	6.5097155 ± 0.0261847
18D25442	7.2 %	0.0231285 ± 0.0007502	0.0313339 ± 0.0190886	0.0503077 ± 0.0165314	0.0299539 ± 0.0154163	6.5100810 ± 0.0261847
18D25443	8.0 %	0.0230893 ± 0.0007502	0.0315103 ± 0.0190886	0.0513957 ± 0.0165314	0.0287113 ± 0.0154163	6.5113559 ± 0.0261847
18D25445	8.9 %	0.0230182 ± 0.0007502	0.0320504 ± 0.0190886	0.0537634 ± 0.0165314	0.0257950 ± 0.0154163	6.5164431 ± 0.0261847
18D25446	9.7 %	0.0229875 ± 0.0007502	0.0323906 ± 0.0190886	0.0549803 ± 0.0165314	0.0242064 ± 0.0154163	6.5201420 ± 0.0261847
18D25447	10.6 %	0.0229590 ± 0.0007502	0.0327859 ± 0.0190886	0.0562602 ± 0.0165314	0.0224756 ± 0.0154163	6.5248872 ± 0.0261847
18D25449	11.6 %	0.0229214 ± 0.0007502	0.0335172 ± 0.0190886	0.0583770 ± 0.0165314	0.0194613 ± 0.0154163	6.5354763 ± 0.0261847
18D25450	12.5 %	0.0229113 ± 0.0007502	0.0338338 ± 0.0190886	0.0592126 ± 0.0165314	0.0181930 ± 0.0154163	6.5414633 ± 0.0261847
18D25451	13.4 %	0.0229079 ± 0.0007502	0.0340815 ± 0.0190886	0.0598304 ± 0.0165314	0.0171877 ± 0.0154163	6.5477864 ± 0.0261847
18D25453	14.6 %	0.0229241 ± 0.0007502	0.0342450 ± 0.0190886	0.0601818 ± 0.0165314	0.0163163 ± 0.0154163	6.5610215 ± 0.0261847
18D25454	15.8 %	0.0229450 ± 0.0007502	0.0340908 ± 0.0190886	0.0597901 ± 0.0165314	0.0166421 ± 0.0154163	6.5677065 ± 0.0261847
18D25455	17.6 %	0.0229783 ± 0.0007502	0.0336902 ± 0.0190886	0.0588430 ± 0.0165314	0.0177194 ± 0.0154163	6.5747698 ± 0.0261847
18D25457	18.6 %	0.0230724 ± 0.0007502	0.0321209 ± 0.0190886	0.0553317 ± 0.0165314	0.0221965 ± 0.0154163	6.5869566 ± 0.0261847
18D25458	19.7 %	0.0231369 ± 0.0007502	0.0308388 ± 0.0190886	0.0525624 ± 0.0165314	0.0258926 ± 0.0154163	6.5923063 ± 0.0261847
18D25459	20.9 %	0.0232140 ± 0.0007502	0.0291581 ± 0.0190886	0.0490066 ± 0.0165314	0.0307353 ± 0.0154163	6.5969589 ± 0.0261847
18D25461	22.5 %	0.0234092 ± 0.0007502	0.0243821 ± 0.0190886	0.0391797 ± 0.0165314	0.0444249 ± 0.0154163	6.6035259 ± 0.0261847

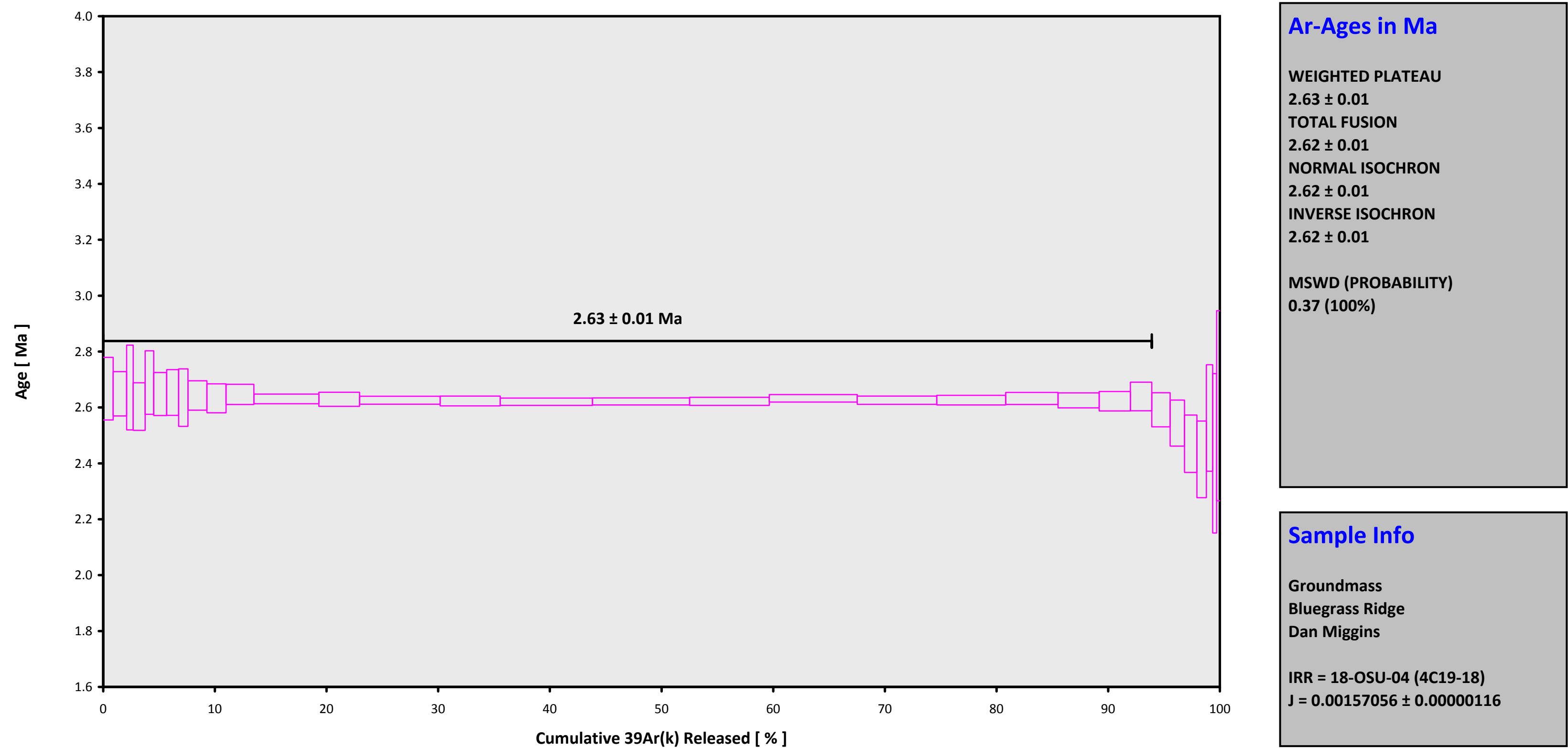
Intercept Values		36Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]		r2	Regression (type,n)
18D25419	1.8 %	0.1224187 ± 0.0005317	0.0843	EXP	149 of 150	1.7845169 ± 0.0176252	0.3199	EXP	148 of 150	0.1766167 ± 0.0159478	0.0093	EXP	148 of 150	15.3501413 ± 0.0151030	0.9748	EXP	148 of 150	50.167919 ± 0.022722	0.9984	EXP	150 of 150
18D25421	1.9 %	0.0958184 ± 0.0004963	0.0129	EXP	150 of 150	2.3022347 ± 0.0189122	0.2753	EXP	150 of 150	0.2036251 ± 0.0165824	0.0007	EXP	150 of 150	20.9147345 ± 0.0182751	0.9811	EXP	150 of 150	46.210440 ± 0.021442	0.9980	EXP	150 of 150
18D25422	2.0 %	0.0590020 ± 0.0004107	0.4416	EXP	150 of 150	1.1113713 ± 0.0176848	0.1769	EXP	150 of 150	0.0952695 ± 0.0149351	0.0077	EXP	149 of 150	10.2044483 ± 0.0153727	0.9417	EXP	150 of 150	26.094690 ± 0.018370	0.9987	EXP	150 of 150
18D25423	2.1 %	0.0677622 ± 0.0004312	0.2678	EXP	150 of 150	1.9341544 ± 0.0207060	0.1882	EXP	150 of 150	0.1955853 ± 0.0163677	0.0152	EXP	149 of 150	18.4788407 ± 0.0147811	0.9843	EXP	149 of 150	35.197749 ± 0.019952	0.9980	EXP	150 of 150
18D25425	2.2 %	0.0525128 ± 0.0003506	0.5803	EXP	146 of 150	1.3812969 ± 0.0179254	0.1923	EXP	150 of 150	0.0979625 ± 0.0169481	0.0012	EXP	150 of 150	13.1810989 ± 0.0157631	0.9639	EXP	148 of 150	26.560072 ± 0.017262	0.9984	EXP	150 of 150
18D25426	2.3 %	0.0601192 ± 0.0004004	0.3661	EXP	150 of 150	2.0289106 ± 0.0181608	0.3184	EXP	150 of 150	0.2195137 ± 0.0157462	0.0352	EXP	150 of 150	20.0368794 ± 0.0161600	0.9841	EXP	150 of 150	34.379966 ± 0.020272	0.9973	EXP	150 of 150
18D25427	2.4 %	0.0524685 ± 0.0003831	0.4316	EXP	149 of 150	1.8743762 ± 0.0175638	0.2754	EXP	149 of 150	0.1693469 ± 0.0168353	0.0003	EXP	149 of 150	18.6481301 ± 0.0146486	0.9842	EXP	149 of 150	30.886420 ± 0.017780	0.9979	EXP	150 of 150
18D25429	2.5 %	0.0454575 ± 0.0003412	0.5223	EXP	148 of 150	1.4030687 ± 0.0178345	0.1620	EXP	149 of 150	0.1338094 ± 0.0168460	0.0163	EXP	150 of 150	14.4530299 ± 0.0168804	0.9664	EXP	150 of 150	25.208817 ± 0.019201	0.9975	EXP	149 of 150
18D25430	2.7 %	0.0620493 ± 0.0003861	0.2936	EXP	150 of 150	2.8547469 ± 0.0169000	0.5419	EXP	149 of 150	0.3285637 ± 0.0177029	0.0511	EXP	150 of 150	29.2074791 ± 0.0164082	0.9921	EXP	150 of 150	42.490859 ± 0.019289	0.9958	EXP	149 of 150
18D25431	3.0 %	0.0571368 ± 0.0003868	0.3397	EXP	150 of 150	2.8218942 ± 0.0155917	0.5030	EXP	147 of 150	0.3010206 ± 0.0167368	0.0107	EXP	150 of 150	29.5795880 ± 0.0182538	0.9905	EXP	150 of 150	41.230301 ± 0.018584	0.9962	EXP	148 of 150
18D25433	3.4 %	0.0677453 ± 0.0004014	0.2868	EXP	147 of 150	4.1496335 ± 0.0185682	0.6043	EXP	150 of 150	0.4824902 ± 0.0165309	0.0606	EXP	150 of 150	43.2213991 ± 0.0161311	0.9966	EXP	148 of 150	55.870459 ± 0.020665	0.9915	EXP	145 of 150
18D25434	3.8 %	0.1147657 ± 0.0004956	0.0414	EXP	150 of 150	9.9395819 ± 0.0188311	0.9046	EXP	150 of 150	1.1536049 ± 0.0152508	0.1441	EXP	145 of 150	100.6151108 ± 0.0194625	0.9991	EXP	150 of 150	116.767618 ± 0.022402	0.6750	EXP	149 of 150
18D25435	4.2 %	0.0769241 ± 0.0004008	0.1530	EXP	149 of 150	5.9843536 ± 0.0192544	0.7635	EXP	150 of 150	0.7176937 ± 0.0163718	0.1033	EXP	150 of 150	63.2056313 ± 0.0179042	0.9981	EXP	149 of 150	74.854784 ± 0.019355	0.9813	EXP	148 of 150
18D25437	4.6 %	0.1205357 ± 0.0004728	0.0905	EXP	147 of 150	12.0308598 ± 0.0188046	0.9354	EXP	150 of 150	1.4267944 ± 0.0165237	0.1809	EXP	150 of 150	124.8638594 ± 0.0203278	0.9994	EXP	148 of 150	138.414661 ± 0.027095	0.9656	EXP	150 of 150
18D25438	5.2 %	0.0896496 ± 0.0004099	0.0168	EXP	147 of 150	8.6759589 ± 0.0201101	0.8604	EXP	150 of 150	1.0627847 ± 0.0174824	0.1430	EXP	148 of 150	93.1806218 ± 0.0194692	0.9990	EXP	146 of 150	103.296122 ± 0.023627	0.1174	EXP	149 of 150
18D25439	5.8 %	0.1261731 ± 0.0005635	0.0917	EXP	149 of 150	13.3392363 ± 0.0174580	0.9542	EXP	150 of 150	1.6478101 ± 0.0182639	0.2132	EXP	150 of 150	142.7733447 ± 0.0229882	0.9994	EXP	150 of 150	155.009729 ± 0.027538	0.9822	EXP	150 of 150
18D25441	6.5 %	0.1261044 ± 0.0005438	0.0604	EXP	149 of 150	13.7248690 ± 0.0206115	0.9407	EXP	150 of 150	1.7389007 ± 0.0167241	0.2837	EXP	149 of 150	150.4774855 ± 0.0248295	0.9994	EXP	150 of 150	161.748814 ± 0.024027	0.9909	EXP	150 of 150
18D25442	7.2 %	0.1053637 ± 0.0005230	0.0006	EXP	149 of 150	10.9356511 ± 0.0191777	0.9243	EXP	150 of 150	1.4441701 ± 0.0139803	0.3328	EXP	150 of 150	123.5934870 ± 0.0231442	0.9992	EXP	150 of 150	133.726012 ± 0.024326	0.9636	EXP	150 of 150
18D25443	8.0 %	0.1190500 ± 0.0005515	0.0004	EXP	150 of 150	12.3505690 ± 0.0202821	0.9311	EXP	150 of 150	1.5768136 ± 0.0192855	0.2278	EXP	150 of 150	136.2845671 ± 0.0240017	0.9993	EXP	150 of 150	148.598990 ± 0.023876	0.9851	EXP	150 of 150
18D25445	8.9 %	0.1173132 ± 0.0005543	0.0298	EXP	150 of 150	11.5204955 ± 0.0190414	0.9316	EXP	150 of 150	1.4055716 ± 0.0165749	0.1677	EXP	148 of 150	123.2730563 ± 0.0221616	0.9992	EXP	150 of 150	136.641759 ± 0.022235	0.9797	EXP	150 of 150
18D25446	9.7 %	0.1201836 ± 0.0005618	0.0622	EXP	150 of 150	10.5770637 ± 0.0192743	0.9134	EXP	150 of 150	1.2545400 ± 0.0160336	0.2282	EXP	150 of 150	106.8463194 ± 0.0204579	0.9991	EXP	149 of 150	123.420179 ± 0.022979	0.9486	EXP	150 of 150
18D25447	10.6 %	0.1147574 ± 0.0005155	0.0690	EXP	150 of 150	8.6072789 ± 0.0185596	0.8798	EXP	149 of 150	0.9301796 ± 0.0154262	0.0939	EXP	150 of 150	81.0840867 ± 0.0230938	0.9980	EXP	150 of 150	100.340801 ± 0.022300	0.1183	EXP	149 of 150
18D25449	11.6 %	0.1105249 ± 0.0005052	0.0467	EXP	150 of 150	7.3396211 ± 0.0205210	0.8068	EXP	150 of 150	0.7510408 ± 0.0171329	0.1041	EXP	148 of 150	63.7340730 ± 0.0197435	0.9977	EXP	149 of 150	84.233819 ± 0.021447	0.8348	EXP	150 of 150
18D25450	12.5 %	0.1179533 ± 0.0004742	0.1170	EXP	150 of 150	6.4627756 ± 0.0174896	0.8401	EXP	148 of 150	0.5466549 ± 0.0159840	0.0186	EXP	149 of 150	48.4637244 ± 0.0201244	0.9958	EXP	150 of 150	73.377665 ± 0.020786	0.9510	EXP	150 of 150
18D25451	13.4 %	0.1082708 ± 0.0005105	0.0169	EXP	150 of 150	5.1182202 ± 0.0205832	0.6499	EXP	150 of 150	0.3721378 ± 0.0153485	0.0141	EXP	148 of 150	33.0205756 ± 0.0171593	0.9933	EXP	150 of 150	57.843258 ± 0.019047	0.9857	EXP	145 of 150
18D25453	14.6 %	0.1342209 ± 0.0005203	0.3000	EXP	149 of 150	5.9920052 ± 0.0186459	0.8018	EXP	150 of 150	0.3518495 ± 0.0158315	0.0534	EXP	148 of 150	28.5505739 ± 0.0189599	0.9889	EXP	148 of 150	60.209687 ± 0.018991	0.9788	EXP	150 of 150
18D25454	15.8 %	0.1532748 ± 0.0006014	0.4338	EXP	150 of 150	6.3122703 ± 0.0182140	0.8114	EXP	149 of 150	0.2660677 ± 0.0172508	0.0092	EXP	150 of 150	22.4033747 ± 0.0175513	0.9845	EXP	149 of 150	59.747129 ± 0.020685	0.9733	EXP	149 of 150
18D25455	17.6 %	0.1828731 ± 0.0006557	0.5883	EXP	149 of 150	7.2464881 ± 0.0201156	0.8363	EXP	149 of 150	0.2620117 ± 0.0178439	0.0321	EXP	150 of 150	19.1165388 ± 0.0175771	0.9785	EXP	147 of 150	64.380101 ± 0.021617	0.9594	EXP	150 of 150
18D25457	18.6 %	0.2068235 ± 0.0006715	0.6916	EXP	150 of 150	9.1832486 ± 0.0162515	0.9296	EXP	147 of 150	0.1576278 ± 0.0165205	0.0048	EXP	150 of 150	14.8597632 ± 0.0176688	0.9626	EXP	150 of 150	65.383121 ± 0.020444	0.9524	EXP	149 of 150
18D25458	19.7 %	0.1654261 ± 0.0005777	0.5578	EXP	149 of 150	7.2430287 ± 0.0212729	0.8022	EXP	150 of 150	0.1141364 ± 0.0170826	0.0034	EXP	150 of 150	9.7402164 ± 0.0156024	0.9282	EXP	150 of 150	50.942751 ± 0.019275	0.9847	EXP	150 of 150
18D25459	20.9 %	0.1183227 ± 0.0005411	0.2266	EXP	148 of 150	4.6953142 ± 0.0184311	0.6915	EXP	149 of 150	0.0467518 ± 0.0181242	0.0017	EXP	150 of 150	6.0731297 ± 0.0164721	0.8004	EXP	150 of 150	35.758257 ± 0.018738	0.9926	EXP	150 of 150
18D25461	22.5 %	0.1137493 ± 0.0005268	0.1755	EXP	150 of 150	4.8277539 ± 0.0204909	0.6442	EXP	150 of 150	0.0397471 ± 0.0179935	0.0007	EXP	150 of 150	5.0323170 ± 0.0155162	0.7481	EXP	149 of 150	33.511127 ± 0.017947	0.9934	EXP	150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
18D25419	1.8 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25421	1.9 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25422	2.0 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25423	2.1 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25425	2.2 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25426	2.3 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25427	2.4 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25429	2.5 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25430	2.7 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25431	3.0 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25433	3.4 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25434	3.8 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25435	4.2 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25437	4.6 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25438	5.2 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25439	5.8 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25441	6.5 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25442	7.2 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25443	8.0 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25445	8.9 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25446	9.7 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25447	10.6 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25449	11.6 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25450	12.5 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25451	13.4 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25453	14.6 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25454	15.8 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25455	17.6 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25457	18.6 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25458	19.7 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25459	20.9 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01
18D25461	22.5 %	Dan Miggins	18-OSU-04	999.00	999.00	30.81	Oregon\McClaughry (18-09)	18D25415	01

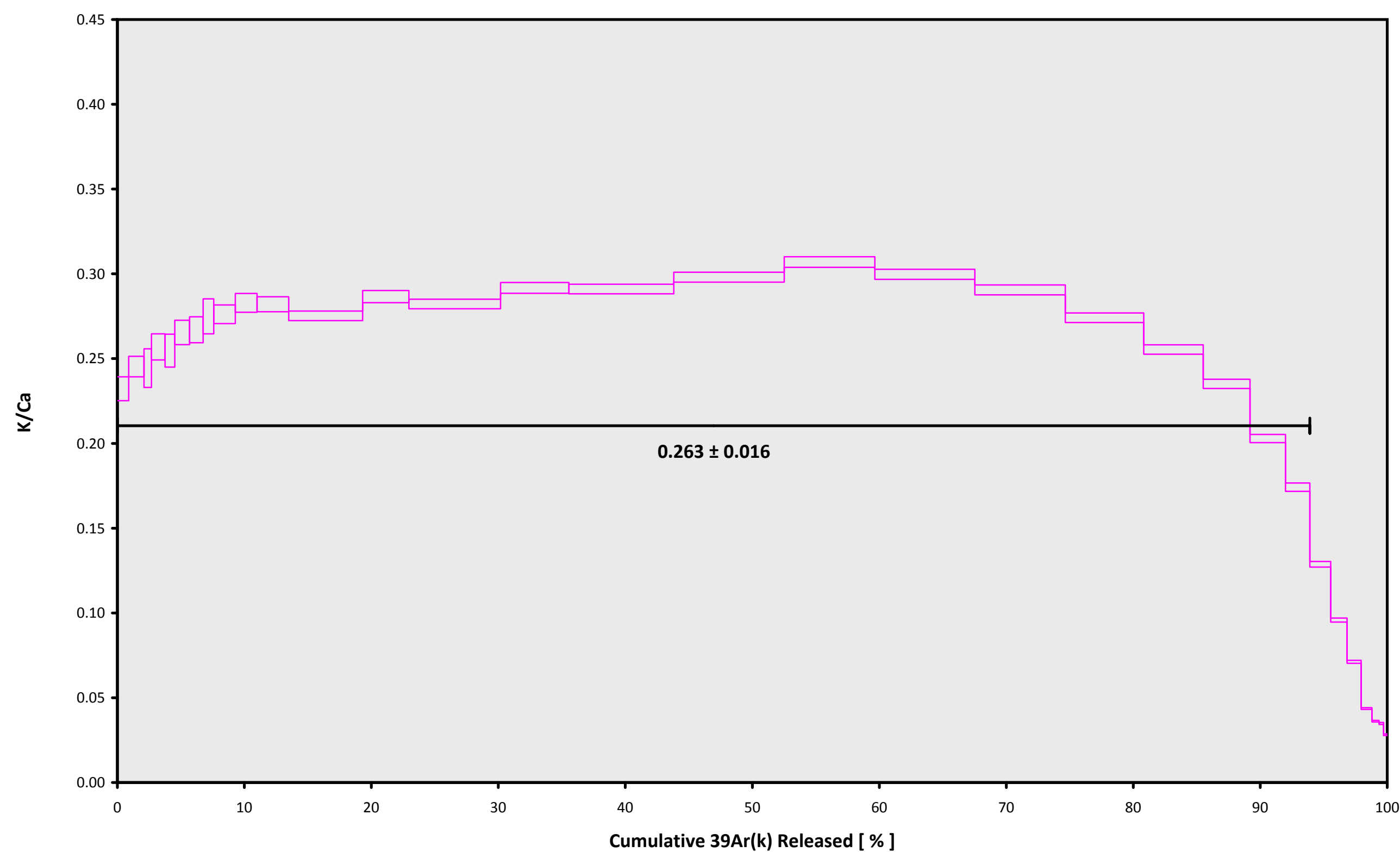
Sample Parameters		Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air 40Ar/36Ar	%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
18D25419	1.8 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	3	6	1
18D25421	1.9 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	3	33	1
18D25422	2.0 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	3	46	1
18D25423	2.1 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	3	59	1
18D25425	2.2 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	4	25	1
18D25426	2.3 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	4	38	1
18D25427	2.4 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	4	51	1
18D25429	2.5 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	5	18	1
18D25430	2.7 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	5	31	1
18D25431	3.0 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	5	44	1
18D25433	3.4 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	6	10	1
18D25434	3.8 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	6	23	1
18D25435	4.2 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	6	36	1
18D25437	4.6 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	7	2	1
18D25438	5.2 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	7	16	1
18D25439	5.8 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	7	29	1
18D25441	6.5 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	7	55	1
18D25442	7.2 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	8	8	1
18D25443	8.0 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	8	21	1
18D25445	8.9 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	8	47	1
18D25446	9.7 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	9	0	1
18D25447	10.6 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	9	14	1
18D25449	11.6 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	9	40	1
18D25450	12.5 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	9	53	1
18D25451	13.4 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	10	6	1
18D25453	14.6 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	10	32	1
18D25454	15.8 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	10	45	1
18D25455	17.6 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	10	59	1
18D25457	18.6 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	11	25	1
18D25458	19.7 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	11	38	1
18D25459	20.9 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	11	51	1
18D25461	22.5 %	380-MCB-DRJ-17	Groundmass	Bluegrass Ridge	FCT-NM (4C19-18)	28.201	0.082	Kuiper et al (2008)	10.00748	0.074	0.00157056	0.074	306.002	0.122	0.9914089	0.065	1	4.8E-14	21	OCT	2018	12	17	1

Irradiation Constants		40/36(a)	%1σ	40/36(c)	%1σ	38/36(a)	%1σ	38/36(c)	%1σ	39/37(ca)	%1σ	38/37(ca)	%1σ	36/37(ca)	%1σ	40/39(k)	%1σ	38/39(k)	%1σ	36/38(cl)	%1σ	K/Ca	%1σ	K/Cl	%1σ	Ca/Cl	%1σ
18D25419	1.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25421	1.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25422	2.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25423	2.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25425	2.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25426	2.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25427	2.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25429	2.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25430	2.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25431	3.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25433	3.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25434	3.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25435	4.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25437	4.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25438	5.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25439	5.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25441	6.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25442	7.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25443	8.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25445	8.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25446	9.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25447	10.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25449	11.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25450	12.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25451	13.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25453	14.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25454	15.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25455	17.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25457	18.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25458	19.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25459	20.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25461	22.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0

18D25415.AGE >>> 380-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



18D25415.AGE >>> 380-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

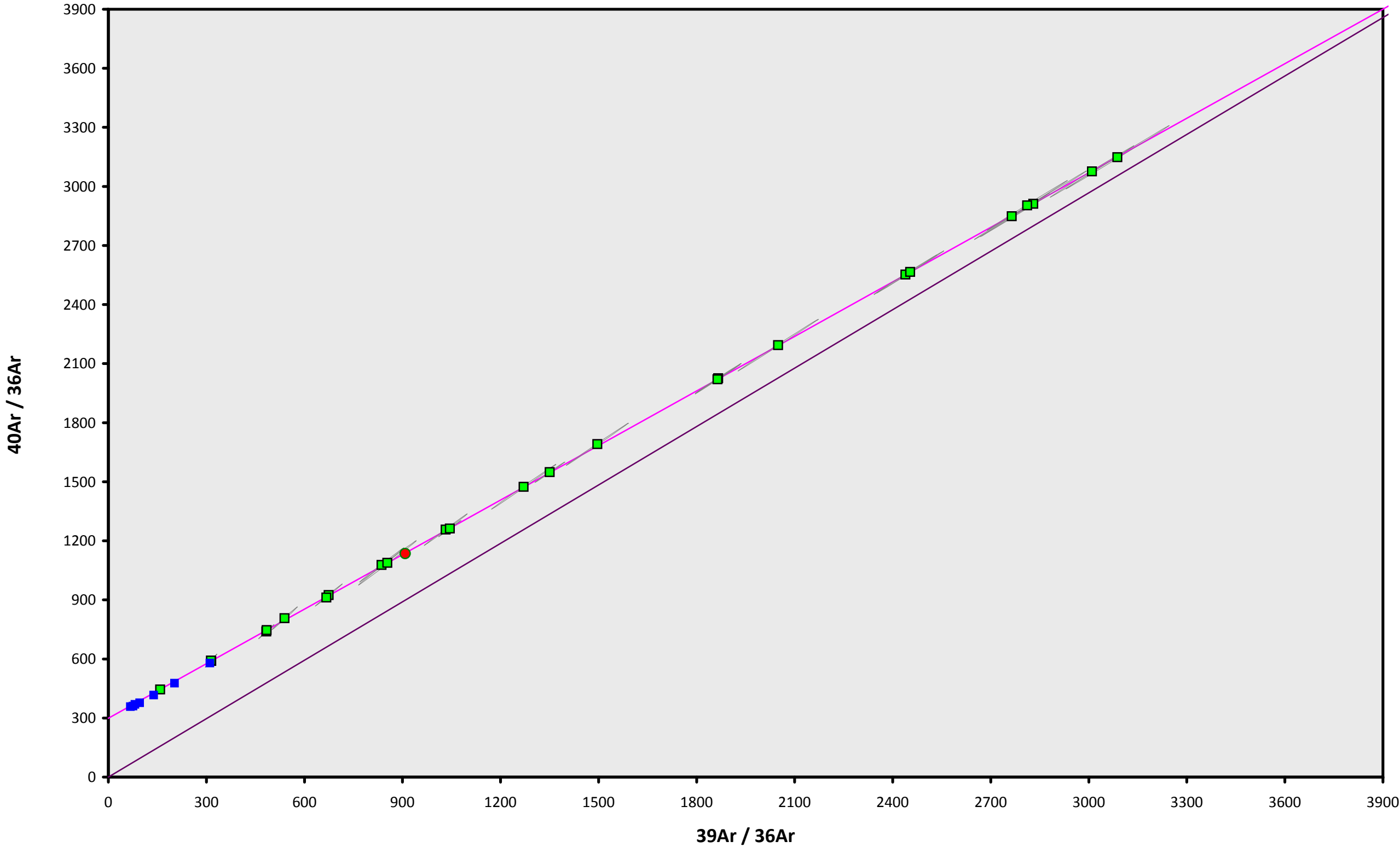
WEIGHTED PLATEAU
 2.63 ± 0.01
TOTAL FUSION
 2.62 ± 0.01
NORMAL ISOCHRON
 2.62 ± 0.01
INVERSE ISOCHRON
 2.62 ± 0.01

Sample Info

Groundmass
Bluegrass Ridge
Dan Miggins

IRR = 18-OSU-04 (4C19-18)
J = $0.00157056 \pm 0.00000116$

18D25415.AGE >>> 380-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

2.63 ± 0.01

TOTAL FUSION

2.62 ± 0.01

NORMAL ISOCHRON

2.62 ± 0.01

INVERSE ISOCHRON

2.62 ± 0.01

MSWD (PROBABILITY)

0.28 (100%)

40AR/36AR INTERCEPT

299.0 ± 4.0

Sample Info

Groundmass

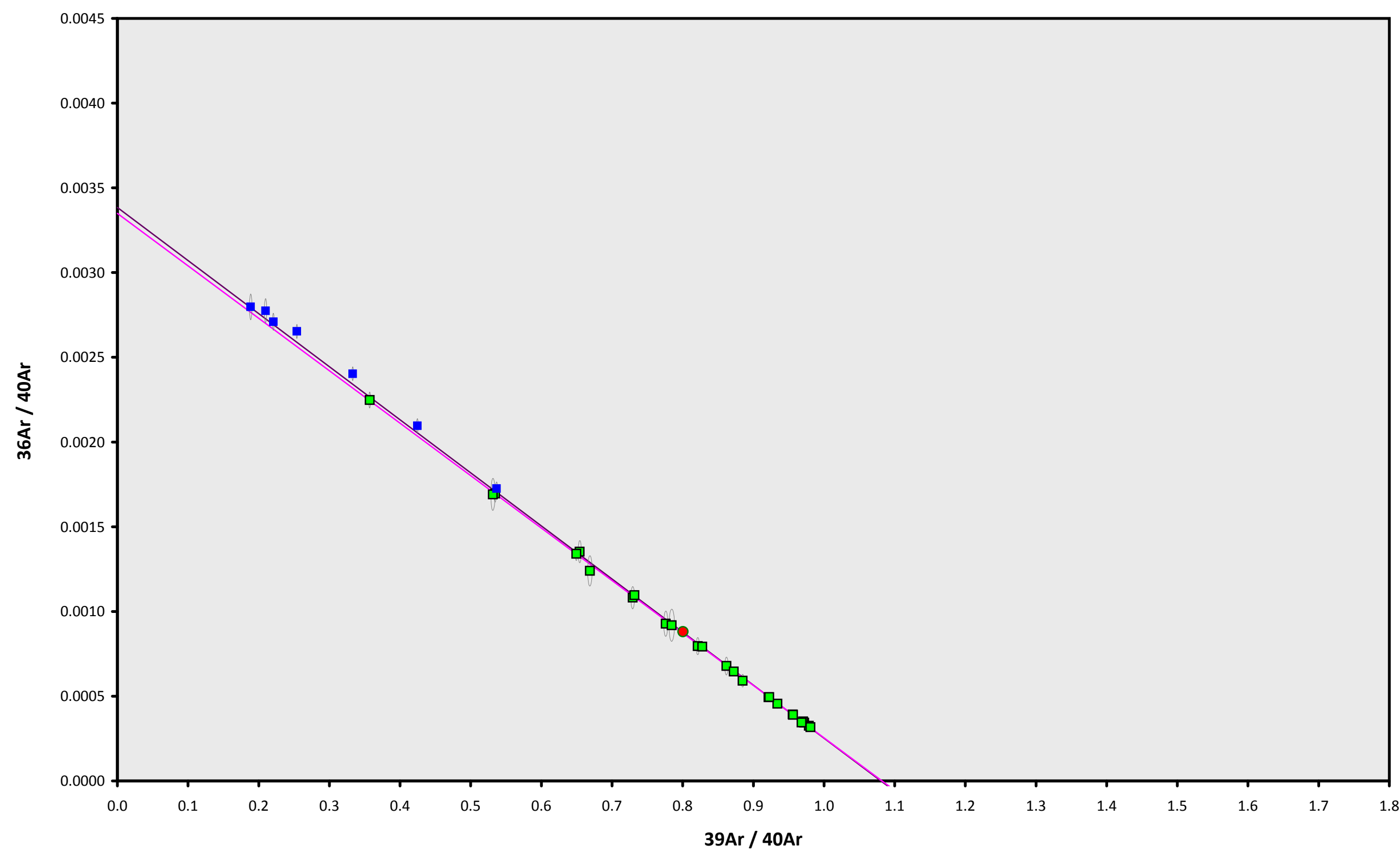
Bluegrass Ridge

Dan Miggins

IRR = 18-OSU-04 (4C19-18)

$J = 0.00157056 \pm 0.00000116$

18D25415.AGE >>> 380-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

2.63 ± 0.01

TOTAL FUSION

2.62 ± 0.01

NORMAL ISOCHRON

2.62 ± 0.01

INVERSE ISOCHRON

2.62 ± 0.01

MSWD (PROBABILITY)

0.28 (100%)

SPREADING FACTOR

57.6%

40AR/36AR INTERCEPT

298.5 ± 4.0

Sample Info

Groundmass

Bluegrass Ridge

Dan Miggins

IRR = 18-OSU-04 (4C19-18)

$J = 0.00157056 \pm 0.00000116$