

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
20F28971	0.5 %	0.4058743	0.294	0.78752	1.791	0.1415202	7.346	0.177299	4.820	122.5407	0.023	8.07231 ± 4.35655	24.36 ± 13.06	1.16	0.21	0.097 ± 0.010
20F28973	1.5 %	1.3750831	0.210	4.86194	0.325	0.4609952	2.550	1.209481	0.731	411.8763	0.009	1.43033 ± 1.59871	4.34 ± 4.85	0.42	1.45	0.107 ± 0.002
20F28974	2.0 %	0.4660097	0.297	9.06565	0.210	0.1822413	5.812	2.273800	0.379	142.1275	0.020	1.64321 ± 0.38672	4.99 ± 1.17	2.62	2.73	0.108 ± 0.001
20F28976	2.5 %	0.1670942	0.455	9.00090	0.213	0.0707796	14.855	2.193383	0.413	51.9750	0.049	1.28567 ± 0.21438	3.90 ± 0.65	5.41	2.64	0.105 ± 0.001
20F28977	3.0 %	0.1653391	0.460	11.62173	0.193	0.0761240	14.570	2.784810	0.318	51.5511	0.049	1.12473 ± 0.16867	3.41 ± 0.51	6.06	3.35	0.103 ± 0.001
20F28979	3.5 %	0.1491831	0.485	17.41893	0.166	0.0734686	14.679	3.907291	0.224	48.4920	0.051	1.37450 ± 0.11421	4.17 ± 0.35	11.04	4.69	0.096 ± 0.001
20F28980	4.0 %	0.0969404	0.647	18.18835	0.166	0.0741510	14.207	3.638008	0.238	31.8809	0.074	1.21449 ± 0.10548	3.69 ± 0.32	13.81	4.37	0.086 ± 0.000
20F28982	4.5 %	0.1248238	0.574	26.24732	0.157	0.0887246	12.529	4.932878	0.189	41.1113	0.056	1.21218 ± 0.08893	3.68 ± 0.27	14.50	5.92	0.081 ± 0.000
20F28983	5.0 %	0.0761102	0.756	32.29854	0.154	0.0969834	10.853	5.779154	0.169	27.0291	0.087	1.19977 ± 0.06082	3.64 ± 0.18	25.56	6.94	0.077 ± 0.000
20F28985	5.7 %	0.1857428	0.410	39.61368	0.150	0.1337789	8.110	7.080339	0.132	61.6614	0.038	1.33223 ± 0.06677	4.04 ± 0.20	15.24	8.50	0.077 ± 0.000
20F28986	6.3 %	0.1752657	0.432	36.08090	0.151	0.1276294	8.259	6.229319	0.146	58.2497	0.042	1.42288 ± 0.07527	4.32 ± 0.23	15.16	7.48	0.074 ± 0.000
20F28988	7.0 %	✓ 0.0702450	0.819	37.39560	0.151	0.0960939	11.547	6.139075	0.160	25.2704	0.093	1.19578 ± 0.05722	3.63 ± 0.17	28.94	7.37	0.070 ± 0.000
20F28989	7.8 %	✓ 0.1214386	0.548	37.83426	0.153	0.1059521	10.011	5.937677	0.161	40.5704	0.061	1.24523 ± 0.06887	3.78 ± 0.21	18.15	7.12	0.067 ± 0.000
20F28991	8.6 %	✓ 0.0587804	0.958	33.67351	0.153	0.0781766	13.927	4.982340	0.177	20.9629	0.109	1.23529 ± 0.06890	3.75 ± 0.21	29.23	5.98	0.063 ± 0.000
20F28992	9.6 %	✓ 0.0841330	0.709	37.43276	0.151	0.0959197	10.693	5.765726	0.156	28.8832	0.078	1.18118 ± 0.06320	3.59 ± 0.19	23.48	6.92	0.066 ± 0.000
20F28994	10.6 %	✓ 0.0471163	1.088	25.03525	0.159	0.0628276	17.582	3.686017	0.252	16.2499	0.144	1.14473 ± 0.08487	3.47 ± 0.26	25.85	4.42	0.063 ± 0.000
20F28995	11.7 %	✓ 0.0795272	0.734	20.83346	0.159	0.0552920	18.771	2.936104	0.311	25.6957	0.095	1.24255 ± 0.12180	3.77 ± 0.37	14.13	3.52	0.060 ± 0.000
20F28997	12.7 %	✓ 0.0232338	1.931	18.63153	0.166	0.0267708	41.200	2.516123	0.363	8.5271	0.254	1.23494 ± 0.10889	3.75 ± 0.33	36.27	3.02	0.058 ± 0.000
20F28998	13.7 %	✓ 0.0167400	2.512	13.60178	0.181	0.0354192	29.495	1.849661	0.494	6.1102	0.389	1.19990 ± 0.13941	3.64 ± 0.42	36.15	2.22	0.058 ± 0.001
20F29000	14.5 %	✓ 0.0135958	3.057	13.61533	0.183	0.0304254	37.281	2.018266	0.442	5.3876	0.426	1.20728 ± 0.12613	3.66 ± 0.38	45.03	2.42	0.063 ± 0.001
20F29001	15.7 %	✓ 0.0211815	2.097	21.99328	0.160	0.0517195	20.765	3.450815	0.265	8.7810	0.273	1.23082 ± 0.07879	3.74 ± 0.24	48.17	4.14	0.067 ± 0.000
20F29003	16.7 %	✓ 0.0100555	4.145	17.25212	0.170	0.0279487	38.618	2.455398	0.321	4.7259	0.484	1.27419 ± 0.10389	3.87 ± 0.31	65.90	2.95	0.061 ± 0.000
20F29004	18.0 %	✓ 0.0081810	4.916	9.30646	0.216	0.0239921	43.450	1.371182	0.645	3.2115	0.680	1.11285 ± 0.17943	3.38 ± 0.54	47.31	1.64	0.063 ± 0.001
Σ		3.9416943	0.110	491.79081	0.037	2.2169338	2.331	83.314147	0.052	1242.8709	0.010					

Information on Analysis and Constants Used in Calculations	
Project = <b>MCCLAUGHRY (19-20)</b>	
Sample = <b>22 DRBLJ 19</b>	
Material = <b>Plagioclase</b>	
Location = <b>Badger Lake</b>	
Region = <b>Eastern Cascades</b>	
Analyst = <b>Dan Miggins</b>	
Irradiation = <b>20-OSU-04 (4B12-20)</b>	
Position = <b>X: 0   Y: 0   Z/H: 14.98166 mm</b>	
FCT-NM Age = <b>28.201 ± 0.023 Ma</b>	
FCT-NM Reference = <b>Kuiper et al (2008)</b>	
FCT-NM 40Ar/39Ar Ratio = <b>9.35346 ± 0.00449</b>	
FCT-NM J-value = <b>0.00165987 ± 0.00000080</b>	
Air Shot 40Ar/36Ar = <b>296.9030 ± 0.3711</b>	
Air Shot MDF = <b>1.00139704 ± 0.00040931 (LIN)</b>	
Experiment Type = <b>Incremental Heating</b>	
Extraction Method = <b>Bulk Laser Heating</b>	
Heating = <b>64 sec</b>	
Isolation = <b>1.62 min</b>	
Instrument = <b>ARGUS-VI-F</b>	
Preferred Age = <b>Plateau Age</b>	
Age Classification = <b>Crystallization Age</b>	
IGSN = <b>Undefined</b>	
Rock Class = <b>Undefined</b>	
Lithology = <b>Undefined</b>	
Lat-Lon = <b>Undefined - Undefined</b>	

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		1.21121 ± 0.02449 ± 2.02%	3.68 ± 0.07 ± 2.02%	0.77 67%	51.72 12	0.065 ± 0.002
		Full External Error ± 0.20		1.85	2σ Confidence Limit	
		Analytical Error ± 0.07		1.0000	Error Magnification	
Total Fusion Age		1.27330 ± 0.03357 ± 2.64%	3.86 ± 0.10 ± 2.64%		23	0.073 ± 0.000
		Full External Error ± 0.23				
		Analytical Error ± 0.10				
Normal Isochron	299.52 ± 4.63 ± 1.55%	1.19861 ± 0.05590 ± 4.66%	3.64 ± 0.17 ± 4.66%	0.84 59%	51.72 12	
		Full External Error ± 0.25		1.89	2σ Confidence Limit	
		Analytical Error ± 0.17		1.0000	Error Magnification	
				18	Number of Iterations	
				0.0000081608	Convergence	
Inverse Isochron	299.10 ± 4.55 ± 1.52%	1.20550 ± 0.05449 ± 4.52%	3.66 ± 0.17 ± 4.52%	0.85 58%	51.72 12	
		Full External Error ± 0.25		1.89	2σ Confidence Limit	
		Analytical Error ± 0.17		1.0000	Error Magnification	
				3	Number of Iterations	
				0.0003205355	Convergence	
				49%	Spreading Factor	

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
20F28971	0.5 %	0.4056588	0.78752	0.0627766	0.176793	1.42713	24.36 ± 13.06	1.16	0.21	0.097 ± 0.010
20F28973	1.5 %	1.3737609	4.86194	0.1865970	1.206357	1.72549	4.34 ± 4.85	0.42	1.45	0.107 ± 0.002
20F28974	2.0 %	0.4635564	9.06565	0.0658388	2.267975	3.72676	4.99 ± 1.17	2.62	2.73	0.108 ± 0.001
20F28976	2.5 %	0.1646607	9.00090	0.0117012	2.187600	2.81252	3.90 ± 0.65	5.41	2.64	0.105 ± 0.001
20F28977	3.0 %	0.1621973	11.62173	0.0099160	2.777344	3.12375	3.41 ± 0.51	6.06	3.35	0.103 ± 0.001
20F28979	3.5 %	0.1444748	17.41893	0.0000000	3.896099	5.35520	4.17 ± 0.35	11.04	4.69	0.096 ± 0.001
20F28980	4.0 %	0.0920237	18.18835	0.0097356	3.626322	4.40412	3.69 ± 0.32	13.81	4.37	0.086 ± 0.000
20F28982	4.5 %	0.1177291	26.24732	0.0024374	4.916014	5.95911	3.68 ± 0.27	14.50	5.92	0.081 ± 0.000
20F28983	5.0 %	0.0673796	32.29854	0.0089244	5.758402	6.90875	3.64 ± 0.18	25.56	6.94	0.077 ± 0.000
20F28985	5.7 %	0.1750349	39.61368	0.0084525	7.054887	9.39871	4.04 ± 0.20	15.24	8.50	0.077 ± 0.000
20F28986	6.3 %	0.1655124	36.08090	0.0149842	6.206137	8.83061	4.32 ± 0.23	15.16	7.48	0.074 ± 0.000
20F28988	7.0 %	✓ 0.0601368	37.39560	0.0041755	6.115048	7.31225	3.63 ± 0.17	28.94	7.37	0.070 ± 0.000
20F28989	7.8 %	✓ 0.1112117	37.83426	0.0067627	5.913368	7.36350	3.78 ± 0.21	18.15	7.12	0.067 ± 0.000
20F28991	8.6 %	✓ 0.0496783	33.67351	0.0028405	4.960705	6.12791	3.75 ± 0.21	29.23	5.98	0.063 ± 0.000
20F28992	9.6 %	✓ 0.0740146	37.43276	0.0058878	5.741676	6.78194	3.59 ± 0.19	23.48	6.92	0.066 ± 0.000
20F28994	10.6 %	✓ 0.0403490	25.03525	0.0063938	3.669932	4.20107	3.47 ± 0.26	25.85	4.42	0.063 ± 0.000
20F28995	11.7 %	✓ 0.0738958	20.83346	0.0023149	2.922719	3.63163	3.77 ± 0.37	14.13	3.52	0.060 ± 0.000
20F28997	12.7 %	✓ 0.0181977	18.63153	0.0000000	2.504152	3.09247	3.75 ± 0.33	36.27	3.02	0.058 ± 0.000
20F28998	13.7 %	✓ 0.0130631	13.60178	0.0082756	1.840922	2.20892	3.64 ± 0.42	36.15	2.22	0.058 ± 0.001
20F29000	14.5 %	✓ 0.0099155	13.61533	0.0018366	2.009518	2.42605	3.66 ± 0.38	45.03	2.42	0.063 ± 0.001
20F29001	15.7 %	✓ 0.0152366	21.99328	0.0033838	3.436684	4.22993	3.74 ± 0.24	48.17	4.14	0.067 ± 0.000
20F29003	16.7 %	✓ 0.0053922	17.25212	0.0000000	2.444314	3.11453	3.87 ± 0.31	65.90	2.95	0.061 ± 0.000
20F29004	18.0 %	✓ 0.0056652	9.30646	0.0047615	1.365203	1.51927	3.38 ± 0.54	47.31	1.64	0.063 ± 0.001
Σ		3.8087450	491.79081	0.4279965	82.998171	105.68163				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 22 DRBLJ 19 Material = Plagioclase Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B12-20) J = 0.00165987 ± 0.00000080 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	1.21121 ± 0.02449 ± 2.02%	3.68 ± 0.07 ± 2.02%	0.77 67%	51.72 12	0.065 ± 0.002
		Full External Error ± 0.20		1.85	2σ Confidence Limit	
		Analytical Error ± 0.07		1.0000	Error Magnification	
	Total Fusion Age	1.27330 ± 0.03357 ± 2.64%	3.86 ± 0.10 ± 2.64%		23	0.073 ± 0.000
			Full External Error ± 0.23			
			Analytical Error ± 0.10			

Normal Isochron		39(k)/36(a) ± 2σ		40(a+r)/36(a) ± 2σ	r.i.
20F28971	0.5 %		0.44 ± 0.04	302.08 ± 1.78	0.0605
20F28973	1.5 %		0.88 ± 0.01	299.82 ± 1.26	0.2761
20F28974	2.0 %		4.89 ± 0.05	306.60 ± 1.83	0.6167
20F28976	2.5 %		13.29 ± 0.16	315.64 ± 2.93	0.7408
20F28977	3.0 %		17.12 ± 0.19	317.82 ± 3.00	0.8227
20F28979	3.5 %		26.97 ± 0.30	335.63 ± 3.38	0.9075
20F28980	4.0 %		39.41 ± 0.57	346.42 ± 4.75	0.9383
20F28982	4.5 %		41.76 ± 0.53	349.18 ± 4.27	0.9508
20F28983	5.0 %		85.46 ± 1.49	401.09 ± 6.89	0.9759
20F28985	5.7 %		40.31 ± 0.37	352.26 ± 3.08	0.9531
20F28986	6.3 %		37.50 ± 0.36	351.91 ± 3.23	0.9480
20F28988	7.0 %	✓	101.69 ± 1.97	420.15 ± 8.09	0.9815
20F28989	7.8 %	✓	53.17 ± 0.66	364.77 ± 4.39	0.9603
20F28991	8.6 %	✓	99.86 ± 2.29	421.91 ± 9.62	0.9834
20F28992	9.6 %	✓	77.57 ± 1.27	390.19 ± 6.32	0.9770
20F28994	10.6 %	✓	90.95 ± 2.36	402.68 ± 10.30	0.9745
20F28995	11.7 %	✓	39.55 ± 0.67	347.71 ± 5.54	0.9233
20F28997	12.7 %	✓	137.61 ± 6.86	468.50 ± 23.23	0.9840
20F28998	13.7 %	✓	140.93 ± 9.18	467.66 ± 30.33	0.9812
20F29000	14.5 %	✓	202.67 ± 17.09	543.23 ± 45.79	0.9894
20F29001	15.7 %	✓	225.55 ± 13.21	576.18 ± 33.76	0.9915
20F29003	16.7 %	✓	453.30 ± 70.16	876.16 ± 135.76	0.9972
20F29004	18.0 %	✓	240.98 ± 34.36	566.74 ± 80.85	0.9913

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	299.52 ± 4.63 ± 1.55%		1.19861 ± 0.05590 ± 4.66%	3.64 ± 0.17 ± 4.66%	0.84 59%
	Full External Error ± 0.25				
	Analytical Error ± 0.17				
Statistics	2σ Confidence Limit	1.89	Convergence	0.000008160803	
	Error Magnification	1.0000	Number of Iterations	18	
	Number of Data Points	12	Calculated Line	Weighted York-2	

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F28971	0.5 %		0.0014427 ± 0.0001395	0.00331040 ± 0.00001953	0.0004
20F28973	1.5 %		0.0029289 ± 0.0000429	0.00333538 ± 0.00001406	0.0005
20F28974	2.0 %		0.0159575 ± 0.0001213	0.00326158 ± 0.00001951	0.0035
20F28976	2.5 %		0.0420906 ± 0.0003506	0.00316816 ± 0.00002944	0.0125
20F28977	3.0 %		0.0538773 ± 0.0003474	0.00314645 ± 0.00002968	0.0158
20F28979	3.5 %		0.0803492 ± 0.0003709	0.00297950 ± 0.00003002	0.0225
20F28980	4.0 %		0.1137537 ± 0.0005685	0.00288668 ± 0.00003960	0.0316
20F28982	4.5 %		0.1195869 ± 0.0004727	0.00286388 ± 0.00003502	0.0262
20F28983	5.0 %		0.2130722 ± 0.0008114	0.00249318 ± 0.00004282	0.0463
20F28985	5.7 %		0.1144213 ± 0.0003152	0.00283884 ± 0.00002483	0.0246
20F28986	6.3 %		0.1065505 ± 0.0003260	0.00284161 ± 0.00002612	0.0252
20F28988	7.0 %	✓	0.2420202 ± 0.0009006	0.00238008 ± 0.00004580	0.0488
20F28989	7.8 %	✓	0.1457685 ± 0.0005049	0.00274144 ± 0.00003300	0.0359
20F28991	8.6 %	✓	0.2366763 ± 0.0009871	0.00237016 ± 0.00005404	0.0497
20F28992	9.6 %	✓	0.1988132 ± 0.0006975	0.00256286 ± 0.00004154	0.0428
20F28994	10.6 %	✓	0.2258745 ± 0.0013162	0.00248337 ± 0.00006352	0.0556
20F28995	11.7 %	✓	0.1137511 ± 0.0007436	0.00287600 ± 0.00004581	0.0347
20F28997	12.7 %	✓	0.2937227 ± 0.0026109	0.00213448 ± 0.00010586	0.0587
20F28998	13.7 %	✓	0.3013441 ± 0.0038033	0.00213832 ± 0.00013868	0.0740
20F29000	14.5 %	✓	0.3730723 ± 0.0045902	0.00184083 ± 0.00015517	0.0700
20F29001	15.7 %	✓	0.3914681 ± 0.0029869	0.00173558 ± 0.00010169	0.0667
20F29003	16.7 %	✓	0.5173775 ± 0.0060166	0.00114135 ± 0.00017685	0.0520
20F29004	18.0 %	✓	0.4252073 ± 0.0079891	0.00176449 ± 0.00025172	0.0691

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	299.10 ± 4.55 ± 1.52%		1.20550 ± 0.05449 ± 4.52%	3.66 ± 0.17 ± 4.52%	0.85 58%
	Full External Error ± 0.25				
	Analytical Error ± 0.17				
Statistics	2σ Confidence Limit	1.89	Convergence	0.0003205355	
	Error Magnification	1.0000	Number of Iterations	3	
	Number of Data Points	12	Calculated Line	Weighted York-2	
	Spreading Factor	48.7%			

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
20F28971	0.5 %	0.4056588	0.29	0.0000000	0.00	0.0002129	1.80	0.0000027	16.60	0.78752	1.79	0.0764667	0.33	0.0000000	0.00	0.0021351	4.83	0.0001418	9.80	0.0627766	16.62	0.176793	4.83	0.0005060	2.01	1.42713	26.55	121.1135	0.31	0.0000000	0.00	0.0001073	10.79
20F28973	1.5 %	1.3737609	0.21	0.0000000	0.00	0.0013142	0.37	0.0000080	6.39	4.86194	0.32	0.2589539	0.26	0.0000000	0.00	0.0145692	0.74	0.0008751	9.64	0.1865970	6.45	1.206357	0.73	0.0031238	0.98	1.72549	55.88	410.1501	0.23	0.0000000	0.00	0.0007323	9.68
20F28974	2.0 %	0.4635564	0.30	0.0000000	0.00	0.0024504	0.27	0.0000028	16.13	9.06565	0.21	0.0873804	0.34	0.0000000	0.00	0.0273903	0.39	0.0016318	9.63	0.0658388	16.15	2.267975	0.38	0.0058247	0.94	3.72676	11.76	138.3994	0.32	0.0000000	0.00	0.0013767	9.66
20F28976	2.5 %	0.1646607	0.46	0.0000000	0.00	0.0024329	0.27	0.0000005	89.89	9.00090	0.21	0.0310385	0.49	0.0000000	0.00	0.0264196	0.42	0.0016202	9.63	0.0117012	89.89	2.187600	0.41	0.0057831	0.94	2.81252	8.33	49.1611	0.47	0.0000000	0.00	0.0013279	9.66
20F28977	3.0 %	0.1621973	0.47	0.0000000	0.00	0.0031414	0.26	0.0000004	111.90	11.62173	0.19	0.0305742	0.50	0.0000000	0.00	0.0335420	0.33	0.0020919	9.63	0.0099160	111.90	2.777344	0.32	0.0074670	0.94	3.12375	7.49	48.4256	0.48	0.0000000	0.00	0.0016858	9.66
20F28979	3.5 %	0.1444748	0.50	0.0000000	0.00	0.0047083	0.24	0.0000000	0.00	17.41893	0.17	0.0272335	0.53	0.0000000	0.00	0.0470532	0.24	0.0031354	9.63	0.0000000	0.00	3.896099	0.23	0.0111917	0.93	5.35520	4.15	43.1344	0.51	0.0000000	0.00	0.0023649	9.65
20F28980	4.0 %	0.0920237	0.68	0.0000000	0.00	0.0049163	0.24	0.0000004	108.28	18.18835	0.17	0.0173465	0.70	0.0000000	0.00	0.0437951	0.26	0.0032739	9.63	0.0097356	108.29	3.626322	0.24	0.0116860	0.93	4.40412	4.34	27.4746	0.69	0.0000000	0.00	0.0022012	9.65
20F28982	4.5 %	0.1177291	0.61	0.0000000	0.00	0.0070947	0.23	0.0000001	456.56	26.24732	0.16	0.0221919	0.63	0.0000000	0.00	0.0593707	0.21	0.0047245	9.63	0.0024374	456.56	4.916014	0.19	0.0168639	0.93	5.95911	3.66	35.1492	0.62	0.0000000	0.00	0.0029840	9.65
20F28983	5.0 %	0.0673796	0.85	0.0000000	0.00	0.0087303	0.23	0.0000004	118.15	32.29854	0.15	0.0127010	0.87	0.0000000	0.00	0.0695442	0.19	0.0058137	9.63	0.0089244	118.15	5.758402	0.17	0.0207518	0.93	6.90875	2.53	20.1168	0.86	0.0000000	0.00	0.0034953	9.65
20F28985	5.7 %	0.1750349	0.44	0.0000000	0.00	0.0107076	0.23	0.0000004	128.68	39.61368	0.15	0.0329941	0.46	0.0000000	0.00	0.0852019	0.16	0.0071305	9.63	0.0084525	128.68	7.054887	0.13	0.0254518	0.93	9.39871	2.50	52.2584	0.45	0.0000000	0.00	0.0042823	9.65
20F28986	6.3 %	0.1655124	0.46	0.0000000	0.00	0.0097527	0.23	0.0000006	70.51	36.08090	0.15	0.0311991	0.48	0.0000000	0.00	0.0749515	0.17	0.0064946	9.63	0.0149842	70.51	6.206137	0.15	0.0231820	0.93	8.83061	2.64	49.4154	0.47	0.0000000	0.00	0.0037671	9.65
20F28988	7.0 %	✓ 0.0601368	0.96	0.0000000	0.00	0.0101080	0.23	0.0000002	266.27	37.39560	0.15	0.0113358	0.97	0.0000000	0.00	0.0738514	0.18	0.0067312	9.63	0.0041755	266.27	6.115048	0.16	0.0240267	0.93	7.31225	2.39	17.9544	0.96	0.0000000	0.00	0.0037118	9.65
20F28989	7.8 %	✓ 0.1112117	0.60	0.0000000	0.00	0.0102266	0.23	0.0000003	157.20	37.83426	0.15	0.0209634	0.62	0.0000000	0.00	0.0714157	0.19	0.0068102	9.63	0.0067627	157.20	5.913368	0.16	0.0243085	0.93	7.36350	2.76	33.2034	0.61	0.0000000	0.00	0.0035894	9.65
20F28991	8.6 %	✓ 0.0496783	1.13	0.0000000	0.00	0.0091019	0.23	0.0000001	383.93	33.67351	0.15	0.0093644	1.15	0.0000000	0.00	0.0599104	0.20	0.0060612	9.63	0.0028405	383.93	4.960705	0.18	0.0216352	0.93	6.12791	2.78	14.8320	1.14	0.0000000	0.00	0.0030111	9.65
20F28992	9.6 %	✓ 0.0740146	0.81	0.0000000	0.00	0.0101181	0.23	0.0000003	174.62	37.43276	0.15	0.0139518	0.82	0.0000000	0.00	0.0693422	0.18	0.0067379	9.63	0.0058878	174.62	5.741676	0.16	0.0240505	0.93	6.78194	2.67	22.0978	0.81	0.0000000	0.00	0.0034852	9.65
20F28994	10.6 %	✓ 0.0403490	1.27	0.0000000	0.00	0.0067670	0.23	0.0000003	172.93	25.03525	0.16	0.0076058	1.28	0.0000000	0.00	0.0443218	0.27	0.0045063	9.63	0.0063938	172.93	3.669932	0.25	0.0160851	0.93	4.20107	3.70	12.0466	1.28	0.0000000	0.00	0.0022276	9.65
20F28995	11.7 %	✓ 0.0738958	0.79	0.0000000	0.00	0.0056313	0.23	0.0000001	448.71	20.83346	0.16	0.0139294	0.81	0.0000000	0.00	0.0352977	0.33	0.0037500	9.63	0.0023149	448.71	2.922719	0.31	0.0133855	0.93	3.63163	4.89	22.0623	0.80	0.0000000	0.00	0.0017741	9.66
20F28997	12.7 %	✓ 0.0181977	2.47	0.0000000	0.00	0.0050361	0.24	0.0000000	0.00	18.63153	0.17	0.0034303	2.47	0.0000000	0.00	0.0302426	0.38	0.0033537	9.63	0.0000000	0.00	2.504152	0.36	0.0119708	0.93	3.09247	4.39	5.4331	2.47	0.0000000	0.00	0.0015200	9.66
20F28998	13.7 %	✓ 0.0130631	3.22	0.0000000	0.00	0.0036766	0.25	0.0000004	126.29	13.60178	0.18	0.0024624	3.22	0.0000000	0.00	0.0222328	0.50	0.0024483	9.63	0.0082756	126.29	1.840922	0.50	0.0087391	0.94	2.20892	5.79	3.9001	3.22	0.0000000	0.00	0.0011174	9.66
20F29000	14.5 %	✓ 0.0099155	4.19	0.0000000	0.00	0.0036802	0.25	0.0000001	617.79	13.61533	0.18	0.0018691	4.20	0.0000000	0.00	0.0242690	0.45	0.0024508	9.63	0.0018366	617.79	2.009518	0.44	0.0087479	0.94	2.42605	5.20	2.9604	4.19	0.0000000	0.00	0.0012198	9.66
20F29001	15.7 %	✓ 0.0152366	2.92	0.0000000	0.00	0.0059448	0.23	0.0000001	317.64	21.99328	0.16	0.0028721	2.92	0.0000000	0.00	0.0415048	0.28	0.0039588	9.63	0.0033838	317.64	3.436684	0.27	0.0141307	0.93	4.22993	3.19	4.5490	2.92	0.0000000	0.00	0.0020861	9.65
20F29003	16.7 %	✓ 0.0053922	7.73	0.0000000	0.00	0.0046632	0.24	0.0000000	0.00	17.25212	0.17	0.0010164	7.73	0.0000000	0.00	0.0295200	0.33	0.0031054	9.63	0.0000000	0.00	2.444314	0.32	0.0110845	0.94	3.11453	4.06	1.6099	7.73	0.0000000	0.00	0.0014837	9.66
20F29004	18.0 %	✓ 0.0056652	7.10	0.0000000	0.00	0.0025155	0.28	0.0000002	218.99	9.30646	0.22	0.0010679	7.10	0.0000000	0.00	0.0164876	0.65	0.0016752	9.63	0.0047615	218.99	1.365203	0.65	0.0059794	0.95	1.51927	8.04	1.6914	7.10	0.0000000	0.00	0.0008287	9.67
Σ		3.8087450	0.11	0.0000000	0.00	0.1329311	0.05	0.0000183	11.30	491.79081	0.04	0.7179484	0.13	0.0000000	0.00	1.0023689	0.06	0.0885223	2.28	0.4279965	11.28	82.998171	0.05	0.3159756	0.22	105.68163	1.32	1137.1389	0.12	0.0000000	0.00	0.0503799	2.26
Σ								3.9416943	0.11	491.79081	0.04									2.2368361	2.16			83.314147	0.05							1242.8709	0.16

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F28971	0.5 %	691.154226	33.313025	4.441757	0.228386	2.289213	0.110542	26.281	1.684679	1.00018634	4.338E-12
20F28973	1.5 %	340.539722	2.488255	4.019855	0.032140	1.136920	0.008644	26.294	1.685095	1.00018643	1.458E-11
20F28974	2.0 %	62.506632	0.236979	3.987007	0.017253	0.204948	0.000986	26.299	1.685280	1.00018647	5.031E-12
20F28976	2.5 %	23.696248	0.098446	4.103659	0.019051	0.076181	0.000468	26.311	1.685673	1.00018655	1.840E-12
20F28977	3.0 %	18.511516	0.059522	4.173258	0.015514	0.059372	0.000332	26.317	1.685881	1.00018659	1.825E-12
20F28979	3.5 %	12.410633	0.028566	4.458059	0.012451	0.038181	0.000204	26.329	1.686275	1.00018668	1.717E-12
20F28980	4.0 %	8.763289	0.021832	4.999534	0.014510	0.026647	0.000184	26.335	1.686483	1.00018672	1.129E-12
20F28982	4.5 %	8.334138	0.016419	5.320895	0.013050	0.025304	0.000153	26.347	1.686876	1.00018681	1.455E-12
20F28983	5.0 %	4.676997	0.008878	5.588801	0.012778	0.013170	0.000102	26.353	1.687084	1.00018685	9.568E-13
20F28985	5.7 %	8.708822	0.011952	5.594885	0.011187	0.026234	0.000113	26.365	1.687478	1.00018693	2.183E-12
20F28986	6.3 %	9.350901	0.014251	5.792111	0.012188	0.028136	0.000128	26.372	1.687686	1.00018698	2.062E-12
20F28988	7.0 %	✓4.116320	0.007634	6.091406	0.013410	0.011442	0.000096	26.383	1.688080	1.00018706	8.946E-13
20F28989	7.8 %	✓6.832713	0.011787	6.371897	0.014167	0.020452	0.000117	26.389	1.688265	1.00018710	1.436E-12
20F28991	8.6 %	✓4.207438	0.008744	6.758573	0.015815	0.011798	0.000115	26.401	1.688682	1.00018719	7.421E-13
20F28992	9.6 %	✓5.009471	0.008756	6.492289	0.014116	0.014592	0.000106	26.407	1.688867	1.00018723	1.022E-12
20F28994	10.6 %	✓4.408521	0.012800	6.791952	0.020235	0.012782	0.000143	26.419	1.689284	1.00018732	5.752E-13
20F28995	11.7 %	✓8.751647	0.028483	7.095612	0.024812	0.027086	0.000216	26.425	1.689470	1.00018735	9.096E-13
20F28997	12.7 %	✓3.388979	0.015012	7.404857	0.029552	0.009234	0.000181	26.437	1.689864	1.00018744	3.019E-13
20F28998	13.7 %	✓3.303391	0.020783	7.353661	0.038714	0.009050	0.000232	26.443	1.690072	1.00018748	2.163E-13
20F29000	14.5 %	✓2.669432	0.016383	6.746055	0.032258	0.006736	0.000208	26.455	1.690466	1.00018757	1.907E-13
20F29001	15.7 %	✓2.544630	0.009687	6.373357	0.019763	0.006138	0.000130	26.461	1.690675	1.00018761	3.108E-13
20F29003	16.7 %	✓1.924704	0.011173	7.026201	0.025511	0.004095	0.000170	26.473	1.691069	1.00018769	1.673E-13
20F29004	18.0 %	✓2.342143	0.021954	6.787179	0.046148	0.005966	0.000296	26.479	1.691278	1.00018774	1.137E-13

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F28971	0.5 %	0.0049364 ± 0.0003267	0.0181354 ± 0.0057281	0.0042284 ± 0.0078077	0.0054073 ± 0.0060035	1.1753287 ± 0.0163169
20F28973	1.5 %	0.0049690 ± 0.0003267	0.0187605 ± 0.0057281	0.0033217 ± 0.0078077	0.0035984 ± 0.0060035	1.2086601 ± 0.0163169
20F28974	2.0 %	0.0049723 ± 0.0003267	0.0185814 ± 0.0057281	0.0032801 ± 0.0078077	0.0037570 ± 0.0060035	1.2159484 ± 0.0163169
20F28976	2.5 %	0.0049654 ± 0.0003267	0.0175988 ± 0.0057281	0.0037175 ± 0.0078077	0.0054113 ± 0.0060035	1.2206792 ± 0.0163169
20F28977	3.0 %	0.0049573 ± 0.0003267	0.0168742 ± 0.0057281	0.0041564 ± 0.0078077	0.0067626 ± 0.0060035	1.2190305 ± 0.0163169
20F28979	3.5 %	0.0049402 ± 0.0003267	0.0153830 ± 0.0057281	0.0052048 ± 0.0078077	0.0096932 ± 0.0060035	1.2117321 ± 0.0163169
20F28980	4.0 %	0.0049326 ± 0.0003267	0.0146247 ± 0.0057281	0.0058124 ± 0.0078077	0.0112547 ± 0.0060035	1.2069814 ± 0.0163169
20F28982	4.5 %	0.0049250 ± 0.0003267	0.0134332 ± 0.0057281	0.0069363 ± 0.0078077	0.0138602 ± 0.0060035	1.1988385 ± 0.0163169
20F28983	5.0 %	0.0049259 ± 0.0003267	0.0129908 ± 0.0057281	0.0074764 ± 0.0078077	0.0149349 ± 0.0060035	1.1957978 ± 0.0163169
20F28985	5.7 %	0.0049387 ± 0.0003267	0.0126109 ± 0.0057281	0.0083193 ± 0.0078077	0.0161833 ± 0.0060035	1.1938042 ± 0.0163169
20F28986	6.3 %	0.0049516 ± 0.0003267	0.0126768 ± 0.0057281	0.0086505 ± 0.0078077	0.0163755 ± 0.0060035	1.1950669 ± 0.0163169
20F28988	7.0 %	0.0049867 ± 0.0003267	0.0133240 ± 0.0057281	0.0090345 ± 0.0078077	0.0158040 ± 0.0060035	1.2020255 ± 0.0163169
20F28989	7.8 %	0.0050075 ± 0.0003267	0.0138574 ± 0.0057281	0.0091059 ± 0.0078077	0.0151223 ± 0.0060035	1.2072367 ± 0.0163169
20F28991	8.6 %	0.0050609 ± 0.0003267	0.0155270 ± 0.0057281	0.0090362 ± 0.0078077	0.0127349 ± 0.0060035	1.2224887 ± 0.0163169
20F28992	9.6 %	0.0050860 ± 0.0003267	0.0164396 ± 0.0057281	0.0089210 ± 0.0078077	0.0113628 ± 0.0060035	1.2302708 ± 0.0163169
20F28994	10.6 %	0.0051396 ± 0.0003267	0.0187214 ± 0.0057281	0.0085518 ± 0.0078077	0.0078592 ± 0.0060035	1.2477706 ± 0.0163169
20F28995	11.7 %	0.0051597 ± 0.0003267	0.0197685 ± 0.0057281	0.0083752 ± 0.0078077	0.0062437 ± 0.0060035	1.2545500 ± 0.0163169
20F28997	12.7 %	0.0051870 ± 0.0003267	0.0218454 ± 0.0057281	0.0080917 ± 0.0078077	0.0030926 ± 0.0060035	1.2638039 ± 0.0163169
20F28998	13.7 %	0.0051892 ± 0.0003267	0.0227524 ± 0.0057281	0.0080536 ± 0.0078077	0.0017871 ± 0.0060035	1.2642692 ± 0.0163169
20F29000	14.5 %	0.0051599 ± 0.0003267	0.0237968 ± 0.0057281	0.0083639 ± 0.0078077	0.0005789 ± 0.0060035	1.2523918 ± 0.0163169
20F29001	15.7 %	0.0051217 ± 0.0003267	0.0238465 ± 0.0057281	0.0088148 ± 0.0078077	0.0008857 ± 0.0060035	1.2372136 ± 0.0163169
20F29003	16.7 %	0.0049939 ± 0.0003267	0.0226031 ± 0.0057281	0.0104281 ± 0.0078077	0.0039827 ± 0.0060035	1.1862143 ± 0.0163169
20F29004	18.0 %	0.0048908 ± 0.0003267	0.0210526 ± 0.0057281	0.0117909 ± 0.0078077	0.0073033 ± 0.0060035	1.1447586 ± 0.0163169



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)
20F28971	0.5 %	0.3889534 ± 0.0008818	0.9167	EXP 150 of 150	0.4512793 ± 0.0061158	0.3661	EXP 150 of 150	0.1376872 ± 0.0069074	0.0556	EXP 150 of 150	0.1829201 ± 0.0060955	0.8374	EXP 150 of 150	123.7160513 ± 0.0231327	0.9982	EXP 150 of 150
20F28973	1.5 %	1.3060004 ± 0.0017071	0.9801	EXP 149 of 150	2.8785744 ± 0.0062056	0.9586	EXP 150 of 150	0.4589614 ± 0.0088247	0.3340	EXP 150 of 150	1.2145400 ± 0.0064801	0.9187	EXP 150 of 150	413.0849430 ± 0.0322777	0.9999	EXP 150 of 150
20F28974	2.0 %	0.4458863 ± 0.0010452	0.9045	EXP 150 of 150	5.3832464 ± 0.0059647	0.9887	EXP 150 of 150	0.1794703 ± 0.0071997	0.1155	EXP 150 of 150	2.2803025 ± 0.0061139	0.5122	EXP 147 of 150	143.3434984 ± 0.0234020	0.9987	EXP 148 of 150
20F28976	2.5 %	0.1630611 ± 0.0005875	0.6927	EXP 149 of 150	5.3443925 ± 0.0062145	0.9881	EXP 150 of 150	0.0672598 ± 0.0070853	0.0140	EXP 149 of 150	2.2014434 ± 0.0067251	0.8275	EXP 150 of 150	53.1956374 ± 0.0196525	0.9554	EXP 150 of 150
20F28977	3.0 %	0.1613925 ± 0.0005887	0.7118	EXP 150 of 150	6.9055397 ± 0.0068824	0.9910	EXP 150 of 150	0.0721803 ± 0.0079209	0.0180	EXP 150 of 150	2.7949358 ± 0.0064162	0.9201	EXP 150 of 150	52.7700936 ± 0.0193082	0.9724	EXP 150 of 150
20F28979	3.5 %	0.1460894 ± 0.0005566	0.6340	EXP 150 of 150	10.3576790 ± 0.0066408	0.9964	EXP 148 of 150	0.0684690 ± 0.0074828	0.0015	EXP 149 of 150	3.9217019 ± 0.0062037	0.9685	EXP 149 of 150	49.7036875 ± 0.0186846	0.9724	EXP 150 of 150
20F28980	4.0 %	0.0966525 ± 0.0004727	0.2903	EXP 150 of 150	10.8152897 ± 0.0070875	0.9961	EXP 150 of 150	0.0685458 ± 0.0071159	0.0224	EXP 150 of 150	3.6536555 ± 0.0060757	0.9660	EXP 150 of 150	33.0878983 ± 0.0168525	0.7744	EXP 150 of 150
20F28982	4.5 %	0.1230268 ± 0.0005621	0.5155	EXP 150 of 150	15.6114067 ± 0.0080609	0.9975	EXP 150 of 150	0.0820361 ± 0.0079555	0.0031	EXP 150 of 150	4.9526937 ± 0.0068451	0.9784	EXP 149 of 150	42.3101245 ± 0.0163783	0.8668	EXP 150 of 150
20F28983	5.0 %	0.0769374 ± 0.0004194	0.0101	EXP 149 of 150	19.2117220 ± 0.0094375	0.9979	EXP 149 of 150	0.0897779 ± 0.0071019	0.0220	EXP 150 of 150	5.8010657 ± 0.0073291	0.9825	EXP 150 of 150	28.2248845 ± 0.0169191	0.9669	EXP 150 of 150
20F28985	5.7 %	0.1806789 ± 0.0005756	0.7946	EXP 147 of 150	23.5607158 ± 0.0092144	0.9986	EXP 149 of 150	0.1258333 ± 0.0075760	0.0187	EXP 150 of 150	7.1050698 ± 0.0065430	0.9909	EXP 150 of 150	62.8552161 ± 0.0172253	0.9952	EXP 145 of 150
20F28986	6.3 %	0.1707788 ± 0.0005777	0.7407	EXP 149 of 150	21.4557130 ± 0.0085923	0.9986	EXP 147 of 150	0.1193354 ± 0.0071251	0.0623	EXP 150 of 150	6.2532141 ± 0.0063983	0.9884	EXP 149 of 150	59.4448101 ± 0.0182985	0.9930	EXP 150 of 150
20F28988	7.0 %	0.0714488 ± 0.0004219	0.0055	EXP 150 of 150	22.2321310 ± 0.0089513	0.9986	EXP 149 of 150	0.0873278 ± 0.0079274	0.0133	EXP 150 of 150	6.1622890 ± 0.0073911	0.9847	EXP 150 of 150	26.4724239 ± 0.0170720	0.9649	EXP 149 of 150
20F28989	7.8 %	0.1199063 ± 0.0005047	0.5688	EXP 150 of 150	22.4900751 ± 0.0106698	0.9979	EXP 150 of 150	0.0971422 ± 0.0072229	0.0125	EXP 148 of 150	5.9599659 ± 0.0070737	0.9842	EXP 150 of 150	41.7776767 ± 0.0186928	0.9218	EXP 150 of 150
20F28991	8.6 %	0.0606759 ± 0.0004114	0.0353	EXP 150 of 150	20.0086300 ± 0.0090109	0.9981	EXP 150 of 150	0.0693588 ± 0.0076314	0.0151	EXP 150 of 150	5.0010881 ± 0.0061587	0.9836	EXP 147 of 150	22.1853728 ± 0.0158836	0.9658	EXP 150 of 150
20F28992	9.6 %	0.0846882 ± 0.0004417	0.2835	EXP 150 of 150	22.2407394 ± 0.0089348	0.9985	EXP 150 of 150	0.0872666 ± 0.0066955	0.0360	EXP 149 of 150	5.7840476 ± 0.0063225	0.9872	EXP 150 of 150	30.1135109 ± 0.0155087	0.3696	EXP 149 of 150
20F28994	10.6 %	0.0497186 ± 0.0003510	0.1116	EXP 150 of 150	14.8633348 ± 0.0083457	0.9970	EXP 150 of 150	0.0544514 ± 0.0078575	0.0115	EXP 150 of 150	3.6983244 ± 0.0069511	0.9579	EXP 150 of 150	17.4976535 ± 0.0167425	0.9837	EXP 147 of 150
20F28995	11.7 %	0.0804042 ± 0.0004287	0.2565	EXP 149 of 150	12.3631978 ± 0.0064620	0.9975	EXP 150 of 150	0.0470712 ± 0.0068823	0.0051	EXP 149 of 150	2.9458910 ± 0.0067998	0.9342	EXP 150 of 150	26.9502966 ± 0.0181870	0.7338	EXP 150 of 150
20F28997	12.7 %	0.0271696 ± 0.0002688	0.6233	EXP 150 of 150	11.0497618 ± 0.0074186	0.9959	EXP 150 of 150	0.0187539 ± 0.0078342	0.0046	EXP 150 of 150	2.5222520 ± 0.0068114	0.9096	EXP 150 of 150	9.7908918 ± 0.0142803	0.9938	EXP 146 of 150
20F28998	13.7 %	0.0210277 ± 0.0002255	0.7456	EXP 149 of 150	8.0589766 ± 0.0068647	0.9935	EXP 149 of 150	0.0274645 ± 0.0069850	0.0147	EXP 150 of 150	1.8536801 ± 0.0068701	0.8161	EXP 149 of 150	7.3744230 ± 0.0172974	0.9927	EXP 150 of 150
20F29000	14.5 %	0.0180235 ± 0.0002180	0.7972	EXP 150 of 150	8.0640982 ± 0.0071304	0.9928	EXP 150 of 150	0.0221465 ± 0.0082717	0.0015	EXP 149 of 150	2.0212801 ± 0.0065598	0.8657	EXP 150 of 150	6.6400164 ± 0.0161280	0.9937	EXP 150 of 150
20F29001	15.7 %	0.0251625 ± 0.0002624	0.6489	EXP 150 of 150	13.0391722 ± 0.0074209	0.9970	EXP 150 of 150	0.0430492 ± 0.0074181	0.0099	EXP 150 of 150	3.4558642 ± 0.0067875	0.9568	EXP 150 of 150	10.0182626 ± 0.0175453	0.9900	EXP 150 of 150
20F29003	16.7 %	0.0145079 ± 0.0002203	0.8226	EXP 150 of 150	10.2219927 ± 0.0073801	0.9952	EXP 150 of 150	0.0175987 ± 0.0074958	0.0020	EXP 150 of 150	2.4623434 ± 0.0050175	0.9508	EXP 149 of 150	5.9121285 ± 0.0160133	0.9941	EXP 150 of 150
20F29004	18.0 %	0.0126312 ± 0.0001948	0.8671	EXP 149 of 150	5.5045955 ± 0.0068678	0.9855	EXP 150 of 150	0.0122682 ± 0.0069513	0.0001	EXP 149 of 150	1.3801399 ± 0.0064779	0.7019	EXP 150 of 150	4.3562633 ± 0.0145385	0.9959	EXP 150 of 150

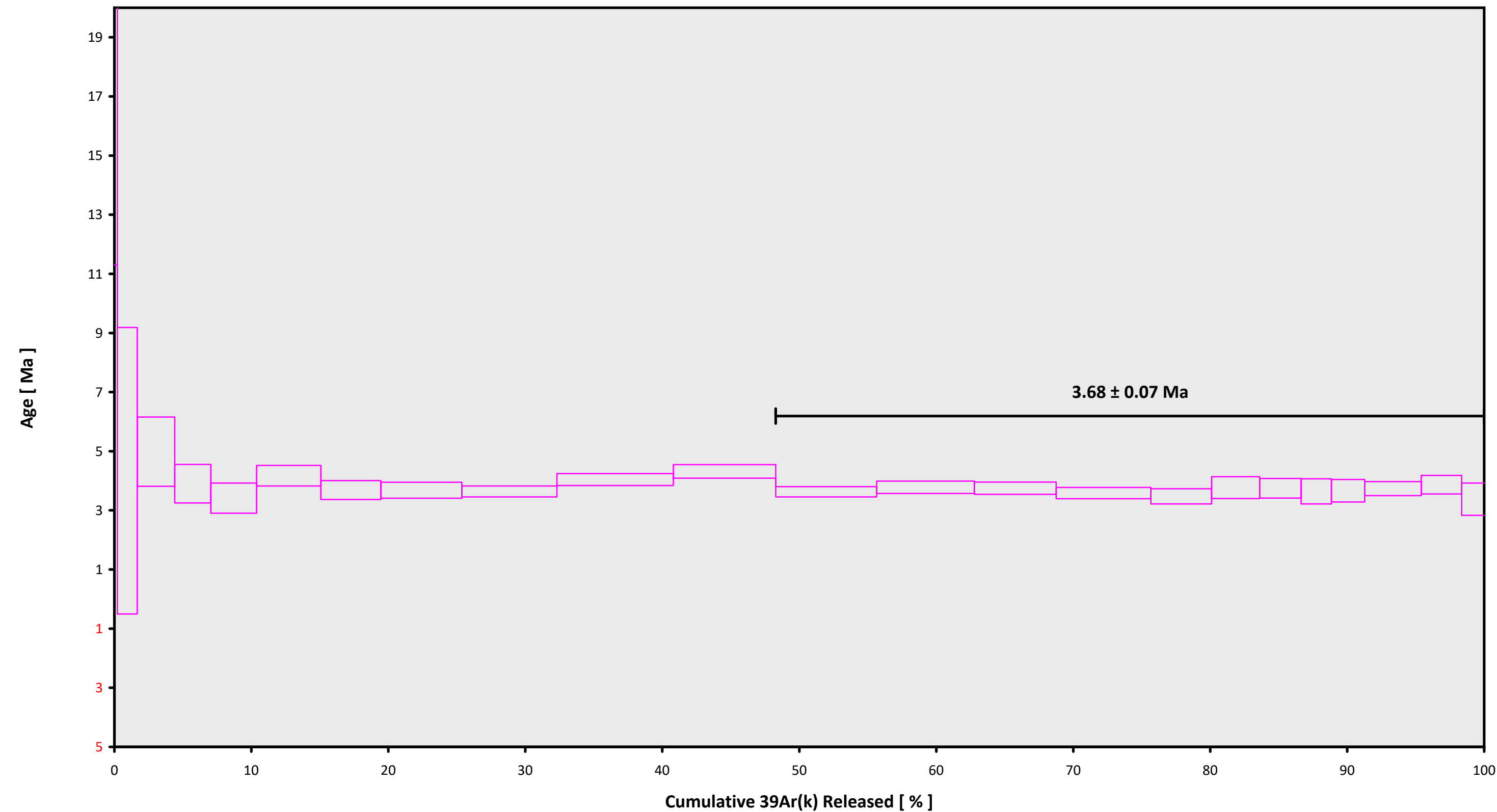


Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F28971	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28973	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28974	2.0 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28976	2.5 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28977	3.0 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28979	3.5 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28980	4.0 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28982	4.5 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28983	5.0 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28985	5.7 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28986	6.3 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28988	7.0 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28989	7.8 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28991	8.6 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28992	9.6 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28994	10.6 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28995	11.7 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28997	12.7 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F28998	13.7 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F29000	14.5 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F29001	15.7 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F29003	16.7 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01
20F29004	18.0 %	Dan Miggins	20-OSU-04	0.00	0.00	14.98	Oregon\McClaghry (19-20)	20F28967	01

Sample Parameters			Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air		%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
														40Ar/36Ar	%1σ											
20F28971	0.5 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	22	21	1		
20F28973	1.5 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	22	39	1		
20F28974	2.0 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	22	47	1		
20F28976	2.5 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	23	4	1		
20F28977	3.0 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	23	13	1		
20F28979	3.5 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	23	30	1		
20F28980	4.0 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	23	39	1		
20F28982	4.5 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	27	OCT	2020	23	56	1		
20F28983	5.0 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	0	5	1		
20F28985	5.7 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	0	22	1		
20F28986	6.3 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	0	31	1		
20F28988	7.0 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	0	48	1		
20F28989	7.8 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	0	56	1		
20F28991	8.6 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	1	14	1		
20F28992	9.6 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	1	22	1		
20F28994	10.6 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	1	40	1		
20F28995	11.7 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	1	48	1		
20F28997	12.7 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	2	5	1		
20F28998	13.7 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	2	14	1		
20F29000	14.5 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	2	31	1		
20F29001	15.7 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	2	40	1		
20F29003	16.7 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	2	57	1		
20F29004	18.0 %	22 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B12-20)	28.201	0.082	Kuiper et al (2008)	9.35346	0.048	0.00165987	0.048	296.903	0.125	1.001397	0.041	1	3.54E-14	28	OCT	2020	3	6	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
20F28971	0.5 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28973	1.5 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28974	2.0 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28976	2.5 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28977	3.0 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28979	3.5 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28980	4.0 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28982	4.5 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28983	5.0 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28985	5.7 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28986	6.3 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28988	7.0 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28989	7.8 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28991	8.6 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28992	9.6 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28994	10.6 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28995	11.7 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28997	12.7 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F28998	13.7 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F29000	14.5 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F29001	15.7 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F29003	16.7 %	298.56	0.104	0.018	35	0.1885	0.159	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
20F29004	18.0 %	298.56	0.104	0.018	35	0.1885	0.159	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

20F28967.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$3.68 \pm 0.07$

TOTAL FUSION

$3.86 \pm 0.10$

NORMAL ISOCHRON

$3.64 \pm 0.17$

INVERSE ISOCHRON

$3.66 \pm 0.17$

MSWD (PROBABILITY)

0.77 (67%)

Sample Info

Plagioclase

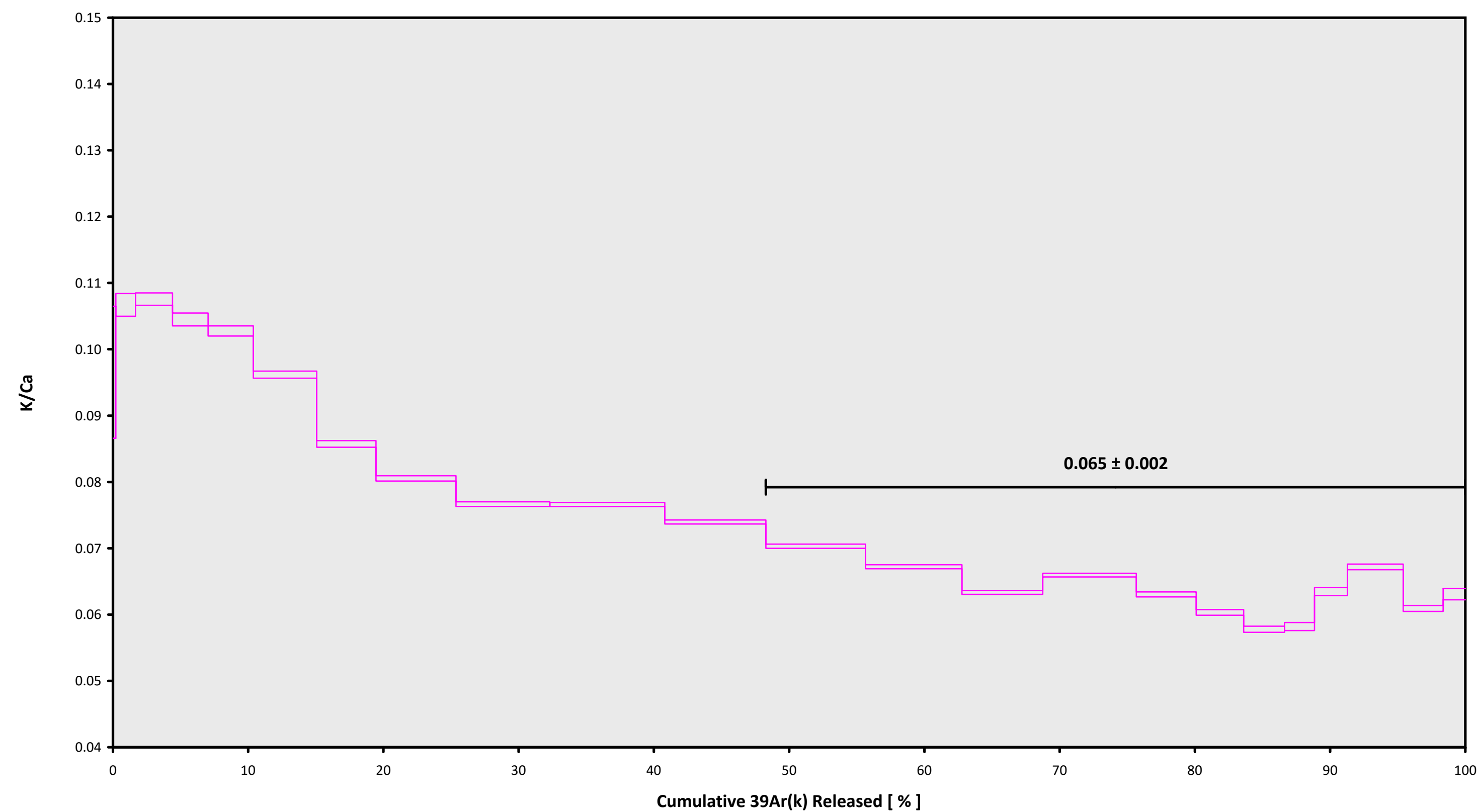
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B12-20)

J =  $0.00165987 \pm 0.00000080$

20F28967.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



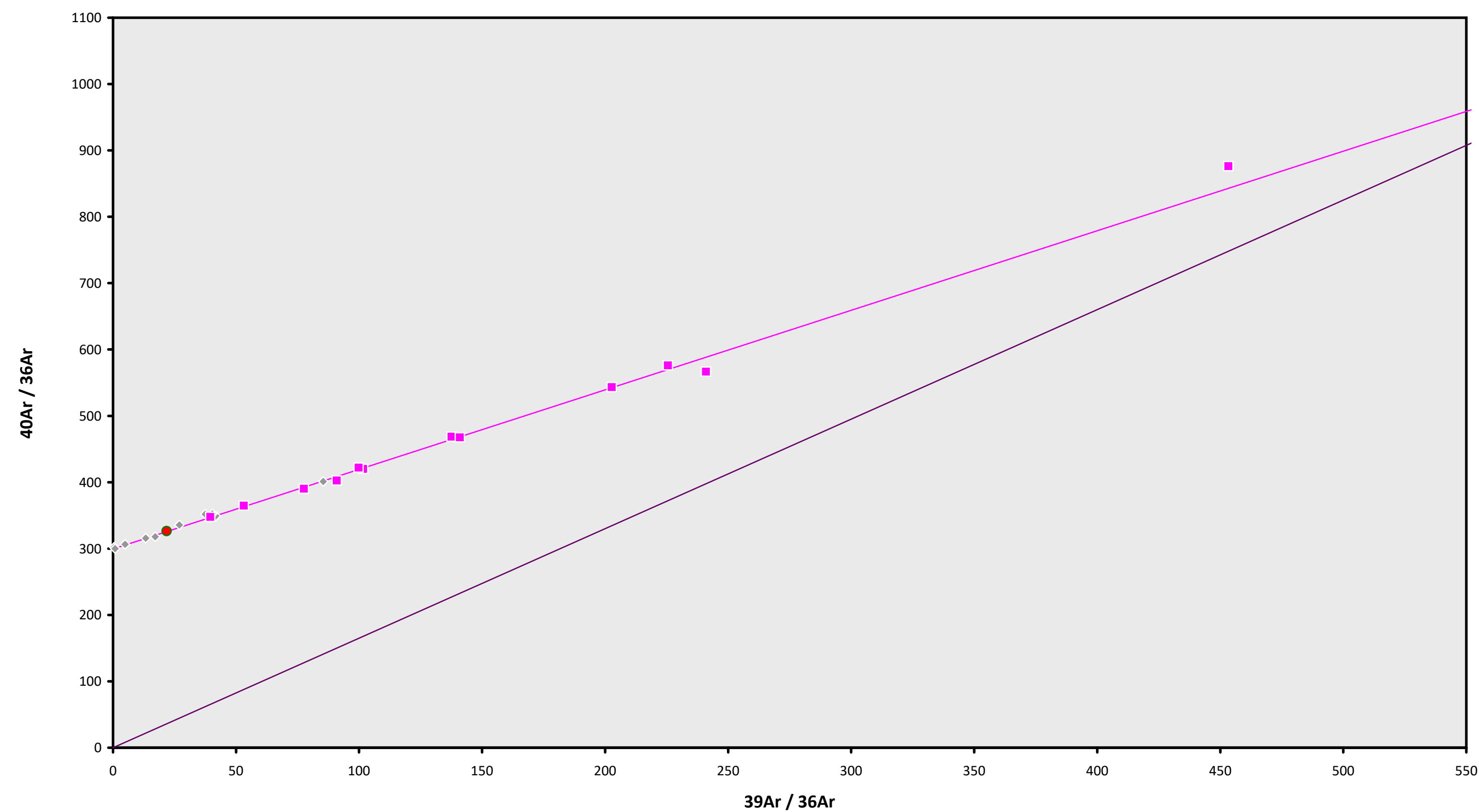
Ar-Ages in Ma

WEIGHTED PLATEAU  
 $3.68 \pm 0.07$   
TOTAL FUSION  
 $3.86 \pm 0.10$   
NORMAL ISOCHRON  
 $3.64 \pm 0.17$   
INVERSE ISOCHRON  
 $3.66 \pm 0.17$

Sample Info

Plagioclase  
Badger Lake  
Dan Miggins  
  
IRR = 20-OSU-04 (4B12-20)  
J =  $0.00165987 \pm 0.00000080$

20F28967.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.68 ± 0.07

TOTAL FUSION

3.86 ± 0.10

NORMAL ISOCHRON

3.64 ± 0.17

INVERSE ISOCHRON

3.66 ± 0.17

MSWD (PROBABILITY)

0.84 (59%)

40AR/36AR INTERCEPT

299.5 ± 4.6

Sample Info

Plagioclase

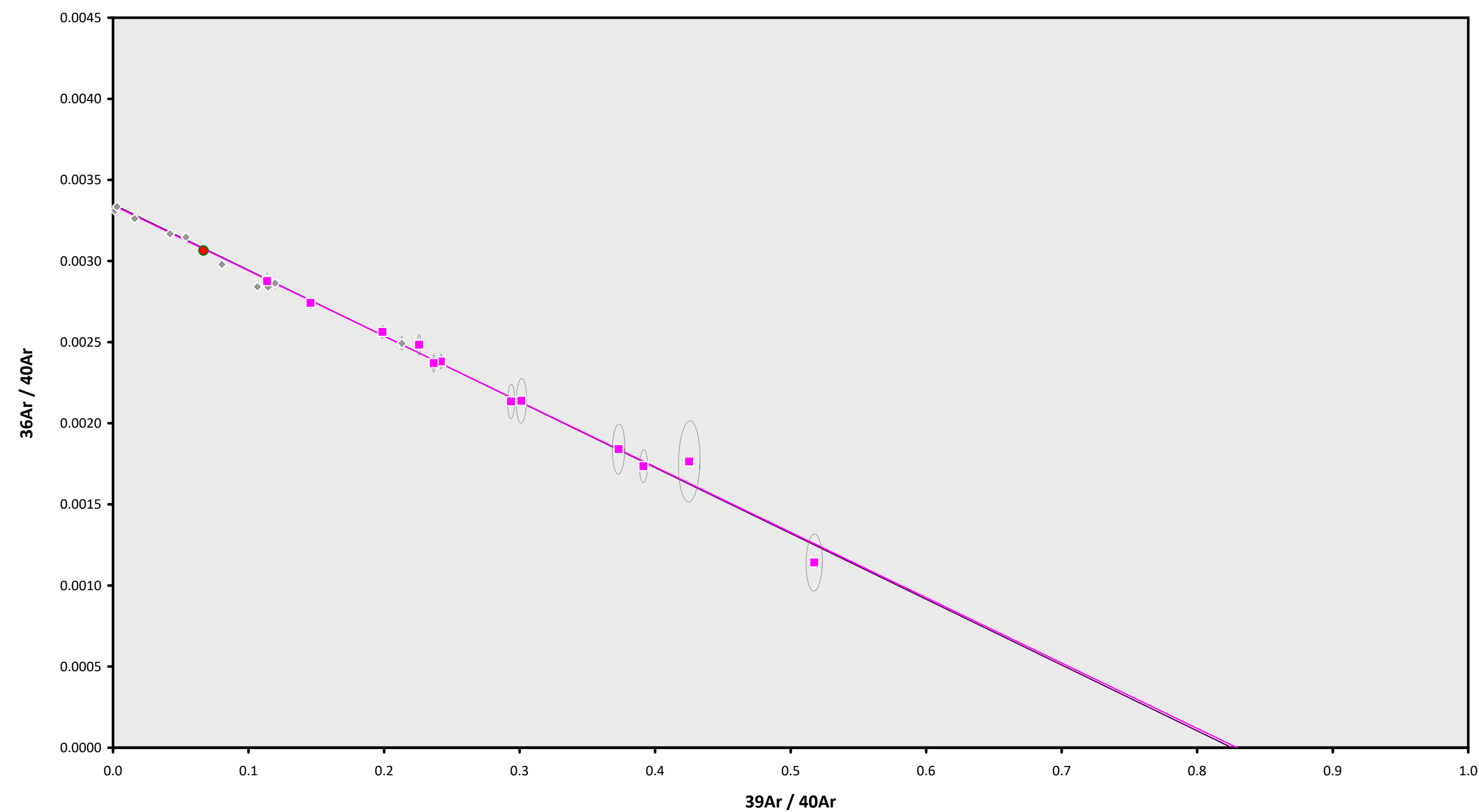
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B12-20)

J = 0.00165987 ± 0.00000080

20F28967.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$3.68 \pm 0.07$

TOTAL FUSION

$3.86 \pm 0.10$

NORMAL ISOCHRON

$3.64 \pm 0.17$

INVERSE ISOCHRON

$3.66 \pm 0.17$

MSWD (PROBABILITY)

0.85 (58%)

SPREADING FACTOR

48.7%

40AR/36AR INTERCEPT

$299.1 \pm 4.5$

Sample Info

Plagioclase

Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B12-20)

$J = 0.00165987 \pm 0.00000080$