

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
20F29055	0.5 %		0.2347701	0.417	0.77556	1.880	0.0642108	16.454	0.195414	4.356	73.1509	0.051	14.72261 ± 3.84741	44.15 ± 11.40	3.92	0.41	0.1081 ± 0.0103
20F29057	1.5 %		2.5159465	0.206	11.25911	0.210	0.6810174	1.437	1.826367	0.480	772.4782	0.007	10.74045 ± 2.85627	32.31 ± 8.52	2.53	3.86	0.0695 ± 0.0007
20F29058	2.0 %	✓	0.3406222	0.304	7.96085	0.244	0.0900239	11.431	0.739145	1.220	103.4533	0.038	2.77527 ± 1.14667	8.40 ± 3.46	1.97	1.56	0.0396 ± 0.0010
20F29060	2.5 %	✓	0.5873007	0.276	11.86024	0.205	0.1411989	7.078	1.102011	0.806	177.7245	0.022	2.47783 ± 1.25423	7.50 ± 3.79	1.53	2.32	0.0397 ± 0.0007
20F29061	3.0 %	✓	0.3488378	0.327	14.97221	0.187	0.0971373	10.580	1.233570	0.728	106.8386	0.036	2.88276 ± 0.73072	8.73 ± 2.21	3.30	2.60	0.0352 ± 0.0005
20F29063	3.5 %	✓	0.2409392	0.375	13.85518	0.198	0.0636229	15.645	0.997419	0.905	73.6505	0.054	2.60947 ± 0.68233	7.90 ± 2.06	3.50	2.10	0.0307 ± 0.0006
20F29064	4.0 %	✓	0.4019253	0.297	18.73259	0.181	0.1004674	9.934	1.383126	0.657	122.7846	0.032	2.82413 ± 0.71206	8.55 ± 2.15	3.15	2.91	0.0315 ± 0.0004
20F29066	4.5 %	✓	0.2174944	0.375	17.30528	0.180	0.0680007	14.214	1.205500	0.729	68.2087	0.056	3.71891 ± 0.51081	11.25 ± 1.54	6.51	2.54	0.0297 ± 0.0004
20F29067	5.0 %	✓	0.2200169	0.405	21.70775	0.172	0.0702343	16.188	1.484958	0.615	69.0496	0.056	3.31962 ± 0.44046	10.05 ± 1.33	7.07	3.12	0.0291 ± 0.0004
20F29069	5.7 %	✓	0.4896889	0.271	31.65639	0.166	0.1292490	7.702	2.207766	0.407	151.2430	0.028	3.23673 ± 0.51679	9.80 ± 1.56	4.68	4.65	0.0297 ± 0.0003
20F29070	6.3 %	✓	0.3135003	0.328	32.30686	0.166	0.0915436	11.548	2.242328	0.422	97.4797	0.040	2.77315 ± 0.36100	8.40 ± 1.09	6.32	4.72	0.0296 ± 0.0003
20F29072	7.0 %	✓	0.3516951	0.303	42.62719	0.164	0.0948745	10.787	2.905339	0.320	110.2035	0.035	2.87556 ± 0.29753	8.71 ± 0.90	7.51	6.11	0.0290 ± 0.0002
20F29073	7.8 %	✓	0.6140838	0.266	47.43008	0.163	0.1539674	7.045	3.024717	0.301	188.9466	0.021	2.93503 ± 0.46750	8.89 ± 1.41	4.65	6.36	0.0271 ± 0.0002
20F29075	8.6 %	✓	0.2471126	0.357	54.05813	0.162	0.0814101	12.382	3.506160	0.252	79.7496	0.048	2.90465 ± 0.19032	8.79 ± 0.57	12.64	7.37	0.0276 ± 0.0002
20F29076	9.6 %	✓	0.3024828	0.323	58.79500	0.162	0.1026894	9.666	3.631171	0.247	96.3808	0.040	2.92411 ± 0.21128	8.85 ± 0.64	10.90	7.63	0.0263 ± 0.0002
20F29078	10.6 %	✓	0.3374336	0.308	51.71250	0.162	0.0955049	10.393	3.296200	0.280	104.5300	0.037	2.33254 ± 0.25317	7.07 ± 0.77	7.28	6.93	0.0271 ± 0.0002
20F29079	11.7 %	✓	0.4137580	0.306	49.83170	0.163	0.1176308	8.755	3.314365	0.285	128.8760	0.032	2.72231 ± 0.30834	8.24 ± 0.93	6.93	6.97	0.0283 ± 0.0002
20F29081	12.7 %	✓	0.2329495	0.373	49.62685	0.162	0.0810225	13.010	2.985185	0.320	74.0961	0.052	2.81547 ± 0.21747	8.53 ± 0.66	11.22	6.27	0.0256 ± 0.0002
20F29082	13.7 %	✓	0.3419744	0.315	54.73773	0.162	0.1068555	9.375	3.192186	0.297	107.2855	0.036	2.93028 ± 0.26870	8.87 ± 0.81	8.62	6.71	0.0248 ± 0.0002
20F29084	14.5 %	✓	0.1343306	0.460	31.38822	0.167	0.0418120	24.456	1.784803	0.515	43.3244	0.084	3.18250 ± 0.24660	9.63 ± 0.74	12.96	3.75	0.0242 ± 0.0003
20F29085	15.7 %	✓	0.1136601	0.512	39.89793	0.163	0.0485697	20.956	2.171766	0.424	37.3236	0.100	3.02761 ± 0.18614	9.17 ± 0.56	17.41	4.56	0.0231 ± 0.0002
20F29087	16.7 %	✓	0.0682011	0.685	29.66434	0.168	0.0462594	22.234	1.630831	0.573	22.6854	0.163	2.88623 ± 0.19291	8.74 ± 0.58	20.51	3.42	0.0234 ± 0.0003
20F29088	18.0 %	✓	0.0543062	0.758	27.90267	0.168	0.0272015	36.661	1.479994	0.609	18.2002	0.202	2.86400 ± 0.18725	8.67 ± 0.57	23.01	3.11	0.0225 ± 0.0003
Σ			9.1230301	0.078	720.06437	0.039	2.5945041	1.889	47.540321	0.092	2827.6630	0.007					

Information on Analysis and Constants Used in Calculations	
Project = MCCLAUGHRY (19-20)	
Sample = 34 DRBLJ 19	
Material = Plagioclase	
Location = Badger Lake	
Region = Eastern Cascades	
Analyst = Dan Miggins	
Irradiation = 20-OSU-04 (4B14-20)	
Position = X: 0 Y: 0 Z/H: 17.44514 mm	
FCT-NM Age = 28.201 ± 0.023 Ma	
FCT-NM Reference = Kuiper et al (2008)	
FCT-NM 40Ar/39Ar Ratio = 9.36382 ± 0.00449	
FCT-NM J-value = 0.00165803 ± 0.00000080	
Air Shot 40Ar/36Ar = 297.7520 ± 0.4526	
Air Shot MDF = 1.00067929 ± 0.00046228 (LIN)	
Experiment Type = Incremental Heating	
Extraction Method = Bulk Laser Heating	
Heating = 64 sec	
Isolation = 1.62 min	
Instrument = ARGUS-VI-F	
Preferred Age = Plateau Age	
Age Classification = Crystallization 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 = **5.463 ± 0.107 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 ± 0.014 E-10 1/a**
Decay 40K(β⁻) = **4.884 ± 0.099 E-10 1/a**
Atmospheric 40/36(a) = **299.63 ± 0.83**
Atmospheric 38/36(a) = **0.1885 ± 0.0003**
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 Error Mean		2.89927 ± 0.09576 ± 3.30%	8.78 ± 0.29 ± 3.30%	2.34 0%	95.72 21	0.0269 ± 0.0011
		Full External Error ± 0.54 Analytical Error ± 0.29		1.63 1.5306	2σ Confidence Limit Error Magnification	
Total Fusion Age		3.23769 ± 0.13776 ± 4.25%	9.80 ± 0.42 ± 4.24%		23	0.0281 ± 0.0001
		Full External Error ± 0.66 Analytical Error ± 0.42				
Normal Isochron Error Chron	299.61 ± 1.66 ± 0.55%	2.88752 ± 0.18507 ± 6.41%	8.74 ± 0.56 ± 6.39%	3.93 0%	95.72 21	
		Full External Error ± 0.72 Analytical Error ± 0.56		1.65 1.9823	2σ Confidence Limit Error Magnification	
				4 0.0000242220	Number of Iterations Convergence	
Inverse Isochron Error Chron	299.63 ± 1.65 ± 0.55%	2.89039 ± 0.18242 ± 6.31%	8.75 ± 0.55 ± 6.30%	3.91 0%	95.72 21	
		Full External Error ± 0.71 Analytical Error ± 0.55		1.65 1.9767	2σ Confidence Limit Error Magnification	
Notes				3 0.0000429106	Number of Iterations Convergence	
		Excess Initial 40Ar/36Ar = 299.63 ± 0.28 (%SD).		21%	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
20F29055	0.5 %		0.2345597	0.77556	0.0175027	0.194916	2.86967	44.15 ± 11.40	3.92	0.41	0.1081 ± 0.0103
20F29057	1.5 %		2.5128952	11.25911	0.1833404	1.819133	19.53831	32.31 ± 8.52	2.53	3.86	0.0695 ± 0.0007
20F29058	2.0 %	✓	0.3384697	7.96085	0.0159246	0.734031	2.03713	8.40 ± 3.46	1.97	1.56	0.0396 ± 0.0010
20F29060	2.5 %	✓	0.5840942	11.86024	0.0157453	1.094391	2.71171	7.50 ± 3.79	1.53	2.32	0.0397 ± 0.0007
20F29061	3.0 %	✓	0.3447902	14.97221	0.0146677	1.223950	3.52835	8.73 ± 2.21	3.30	2.60	0.0352 ± 0.0005
20F29063	3.5 %	✓	0.2371940	13.85518	0.0044796	0.988517	2.57950	7.90 ± 2.06	3.50	2.10	0.0307 ± 0.0006
20F29064	4.0 %	✓	0.3968617	18.73259	0.0057285	1.371090	3.87213	8.55 ± 2.15	3.15	2.91	0.0315 ± 0.0004
20F29066	4.5 %	✓	0.2128164	17.30528	0.0103453	1.194382	4.44179	11.25 ± 1.54	6.51	2.54	0.0297 ± 0.0004
20F29067	5.0 %	✓	0.2141490	21.70775	0.0081944	1.471010	4.88320	10.05 ± 1.33	7.07	3.12	0.0291 ± 0.0004
20F29069	5.7 %	✓	0.4811319	31.65639	0.0064400	2.187427	7.08011	9.80 ± 1.56	4.68	4.65	0.0297 ± 0.0003
20F29070	6.3 %	✓	0.3047677	32.30686	0.0014497	2.221571	6.16075	8.40 ± 1.09	6.32	4.72	0.0296 ± 0.0003
20F29072	7.0 %	✓	0.3401730	42.62719	0.0000000	2.877951	8.27572	8.71 ± 0.90	7.51	6.11	0.0290 ± 0.0002
20F29073	7.8 %	✓	0.6012634	47.43008	0.0000000	2.994243	8.78818	8.89 ± 1.41	4.65	6.36	0.0271 ± 0.0002
20F29075	8.6 %	✓	0.2325007	54.05813	0.0000000	3.471428	10.08329	8.79 ± 0.57	12.64	7.37	0.0276 ± 0.0002
20F29076	9.6 %	✓	0.2865905	58.79500	0.0000000	3.593395	10.50747	8.85 ± 0.64	10.90	7.63	0.0263 ± 0.0002
20F29078	10.6 %	✓	0.3234557	51.71250	0.0000000	3.262975	7.61103	7.07 ± 0.77	7.28	6.93	0.0271 ± 0.0002
20F29079	11.7 %	✓	0.4002885	49.83170	0.0000000	3.282348	8.93557	8.24 ± 0.93	6.93	6.97	0.0283 ± 0.0002
20F29081	12.7 %	✓	0.2195353	49.62685	0.0000000	2.953300	8.31493	8.53 ± 0.66	11.22	6.27	0.0256 ± 0.0002
20F29082	13.7 %	✓	0.3271788	54.73773	0.0000000	3.157017	9.25095	8.87 ± 0.81	8.62	6.71	0.0248 ± 0.0002
20F29084	14.5 %	✓	0.1258464	31.38822	0.0000000	1.764636	5.61595	9.63 ± 0.74	12.96	3.75	0.0242 ± 0.0003
20F29085	15.7 %	✓	0.1028757	39.89793	0.0000000	2.146132	6.49766	9.17 ± 0.56	17.41	4.56	0.0231 ± 0.0002
20F29087	16.7 %	✓	0.0601824	29.66434	0.0101101	1.611772	4.65194	8.74 ± 0.58	20.51	3.42	0.0234 ± 0.0003
20F29088	18.0 %	✓	0.0467641	27.90267	0.0000000	1.462067	4.18736	8.67 ± 0.57	23.01	3.11	0.0225 ± 0.0003
Σ			8.9283839	720.06437	0.2939283	47.077679	152.42272				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% <i>n</i>)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 34 DRBLJ 19 Material = Plagioclase Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B14-20) J = 0.00165803 ± 0.00000080 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	2.89927 ± 0.09576	8.78 ± 0.29	2.34	95.72	0.0269 ± 0.0011
	Error Mean	± 3.30%	± 3.30%	0%	21	
			Full External Error ± 0.54	1.63	2σ Confidence Limit	
			Analytical Error ± 0.29	1.5306	Error Magnification	
	Total Fusion Age	3.23769 ± 0.13776 ± 4.25%	9.80 ± 0.42 ± 4.24%		23	0.0281 ± 0.0001
			Full External Error ± 0.66			
			Analytical Error ± 0.42			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
20F29055	0.5 %		0.83 ± 0.07	311.86 ± 2.62	0.0943
20F29057	1.5 %		0.72 ± 0.01	307.41 ± 1.27	0.3938
20F29058	2.0 %	✓	2.17 ± 0.05	305.65 ± 1.89	0.2402
20F29060	2.5 %	✓	1.87 ± 0.03	304.27 ± 1.69	0.3224
20F29061	3.0 %	✓	3.55 ± 0.06	309.86 ± 2.06	0.4084
20F29063	3.5 %	✓	4.17 ± 0.08	310.51 ± 2.39	0.3811
20F29064	4.0 %	✓	3.45 ± 0.05	309.39 ± 1.87	0.4116
20F29066	4.5 %	✓	5.61 ± 0.09	320.50 ± 2.48	0.4566
20F29067	5.0 %	✓	6.87 ± 0.10	322.43 ± 2.71	0.5514
20F29069	5.7 %	✓	4.55 ± 0.04	314.35 ± 1.75	0.5554
20F29070	6.3 %	✓	7.29 ± 0.08	319.84 ± 2.17	0.6168
20F29072	7.0 %	✓	8.46 ± 0.08	323.96 ± 2.04	0.6911
20F29073	7.8 %	✓	4.98 ± 0.04	314.25 ± 1.72	0.6647
20F29075	8.6 %	✓	14.93 ± 0.14	343.00 ± 2.63	0.8241
20F29076	9.6 %	✓	12.54 ± 0.11	336.29 ± 2.31	0.8015
20F29078	10.6 %	✓	10.09 ± 0.09	323.16 ± 2.09	0.7456
20F29079	11.7 %	✓	8.20 ± 0.07	321.95 ± 2.05	0.7367
20F29081	12.7 %	✓	13.45 ± 0.14	337.51 ± 2.70	0.7681
20F29082	13.7 %	✓	9.65 ± 0.09	327.90 ± 2.17	0.7351
20F29084	14.5 %	✓	14.02 ± 0.20	344.26 ± 3.43	0.6763
20F29085	15.7 %	✓	20.86 ± 0.30	362.79 ± 4.17	0.7850
20F29087	16.7 %	✓	26.78 ± 0.52	376.93 ± 5.98	0.7840
20F29088	18.0 %	✓	31.26 ± 0.67	389.17 ± 7.03	0.7987

Results		40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron		299.61 ± 1.66	2.88752 ± 0.18507	8.74 ± 0.56	3.93
Error Chron		± 0.55%	± 6.41%	± 6.39%	0%
				Full External Error ± 0.72	
				Analytical Error ± 0.56	
Statistics	2σ Confidence Limit	1.65	Convergence	0.000024221972	
	Error Magnification	1.9823	Number of Iterations	4	
	Number of Data Points	21	Calculated Line	Weighted York-2	

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F29055	0.5 %		0.0026646 ± 0.0002328	0.00320652 ± 0.00002694	0.0014
20F29057	1.5 %		0.0023549 ± 0.0000227	0.00325304 ± 0.00001345	0.0005
20F29058	2.0 %	✓	0.0070953 ± 0.0001744	0.00327173 ± 0.00002021	0.0038
20F29060	2.5 %	✓	0.0061578 ± 0.0001000	0.00328653 ± 0.00001829	0.0022
20F29061	3.0 %	✓	0.0114562 ± 0.0001682	0.00322723 ± 0.00002145	0.0053
20F29063	3.5 %	✓	0.0134218 ± 0.0002454	0.00322056 ± 0.00002475	0.0082
20F29064	4.0 %	✓	0.0111667 ± 0.0001481	0.00323220 ± 0.00001959	0.0052
20F29066	4.5 %	✓	0.0175109 ± 0.0002585	0.00312011 ± 0.00002414	0.0108
20F29067	5.0 %	✓	0.0213040 ± 0.0002656	0.00310142 ± 0.00002602	0.0121
20F29069	5.7 %	✓	0.0144631 ± 0.0001190	0.00318121 ± 0.00001766	0.0067
20F29070	6.3 %	✓	0.0227904 ± 0.0001950	0.00312652 ± 0.00002126	0.0110
20F29072	7.0 %	✓	0.0261153 ± 0.0001700	0.00308682 ± 0.00001946	0.0122
20F29073	7.8 %	✓	0.0158472 ± 0.0000966	0.00318222 ± 0.00001737	0.0055
20F29075	8.6 %	✓	0.0435303 ± 0.0002255	0.00291546 ± 0.00002233	0.0233
20F29076	9.6 %	✓	0.0372842 ± 0.0001885	0.00297359 ± 0.00002042	0.0182
20F29078	10.6 %	✓	0.0312163 ± 0.0001783	0.00309444 ± 0.00002003	0.0146
20F29079	11.7 %	✓	0.0254694 ± 0.0001473	0.00310605 ± 0.00001976	0.0108
20F29081	12.7 %	✓	0.0398587 ± 0.0002613	0.00296292 ± 0.00002369	0.0203
20F29082	13.7 %	✓	0.0294269 ± 0.0001779	0.00304966 ± 0.00002022	0.0129
20F29084	14.5 %	✓	0.0407318 ± 0.0004298	0.00290482 ± 0.00002896	0.0270
20F29085	15.7 %	✓	0.0575027 ± 0.0005066	0.00275641 ± 0.00003171	0.0397
20F29087	16.7 %	✓	0.0710521 ± 0.0008563	0.00265303 ± 0.00004209	0.0553
20F29088	18.0 %	✓	0.0803365 ± 0.0010416	0.00256956 ± 0.00004643	0.0694

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	299.63 ± 1.65		2.89039 ± 0.18242	8.75 ± 0.55	3.91
Error Chron	± 0.55%		± 6.31%	± 6.30%	0%
			Full External Error ± 0.71		
			Analytical Error ± 0.55		
Statistics	2σ Confidence Limit	1.65	Convergence	0.0000429106	
	Error Magnification	1.9767	Number of Iterations	3	
	Number of Data Points	21	Calculated Line	Weighted York-2	
	Spreading Factor	21.4%			

Degassing Patterns		36Ar(a)		36Ar(c)		36Ar(ca)		36Ar(cl)		37Ar(ca)		38Ar(a)		38Ar(c)		38Ar(k)		38Ar(ca)		38Ar(cl)		39Ar(k)		39Ar(ca)		40Ar(r)		40Ar(a)		40Ar(c)		40Ar(k)			
		[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ				
20F29055	0.5 %	0.2345597	0.42	0.0000000	0.00	0.0002096	1.89	0.0000008	60.39	0.77556	1.88	0.0442145	0.45	0.0000000	0.00	0.0023540	4.37	0.0001396	9.81	0.0175027	60.39	0.194916	4.37	0.0004983	2.09	2.86967	12.31	70.2811	0.50	0.0000000	0.00	0.0001183	10.59		
20F29057	1.5 %	2.5128952	0.21	0.0000000	0.00	0.0030433	0.27	0.0000080	5.48	11.25911	0.21	0.4736807	0.26	0.0000000	0.00	0.0219697	0.49	0.0020266	9.63	0.1833404	5.56	1.819133	0.48	0.0072340	0.94	19.53831	13.29	752.9388	0.34	0.0000000	0.00	0.0011042	9.66		
20F29058	2.0 %	✓ 0.3384697	0.31	0.0000000	0.00	0.0021518	0.30	0.0000007	64.65	7.96085	0.24	0.0638015	0.35	0.0000000	0.00	0.0088649	1.23	0.0014330	9.63	0.0159246	64.66	0.734031	1.23	0.0051148	0.95	2.03713	20.62	101.4157	0.41	0.0000000	0.00	0.0004456	9.73		
20F29060	2.5 %	✓ 0.5840942	0.28	0.0000000	0.00	0.0032058	0.27	0.0000007	63.54	11.86024	0.21	0.1101018	0.32	0.0000000	0.00	0.0132170	0.82	0.0021348	9.63	0.0157453	63.55	1.094391	0.81	0.0076202	0.94	2.71171	25.30	175.0121	0.39	0.0000000	0.00	0.0006643	9.68		
20F29061	3.0 %	✓ 0.3447902	0.33	0.0000000	0.00	0.0040470	0.25	0.0000006	70.12	14.97221	0.19	0.0649930	0.37	0.0000000	0.00	0.0147816	0.74	0.0026950	9.63	0.0146677	70.13	1.223950	0.73	0.0096196	0.94	3.52835	12.65	103.3095	0.43	0.0000000	0.00	0.0007429	9.68		
20F29063	3.5 %	✓ 0.2371940	0.38	0.0000000	0.00	0.0037451	0.26	0.0000002	222.33	13.85518	0.20	0.0447111	0.41	0.0000000	0.00	0.0119383	0.92	0.0024939	9.63	0.0044796	222.33	0.988517	0.91	0.0089020	0.94	2.57950	13.04	71.0704	0.47	0.0000000	0.00	0.0006000	9.69		
20F29064	4.0 %	✓ 0.3968617	0.30	0.0000000	0.00	0.0050634	0.25	0.0000002	174.40	18.73259	0.18	0.0748084	0.34	0.0000000	0.00	0.0165587	0.67	0.0033719	9.63	0.0057285	174.40	1.371090	0.66	0.0120357	0.94	3.87213	12.59	118.9117	0.41	0.0000000	0.00	0.0008323	9.67		
20F29066	4.5 %	✓ 0.2128164	0.38	0.0000000	0.00	0.0046776	0.25	0.0000005	93.51	17.30528	0.18	0.0401159	0.41	0.0000000	0.00	0.0144245	0.74	0.0031149	9.63	0.0103453	93.51	1.194382	0.74	0.0111186	0.94	4.44179	6.83	63.7662	0.47	0.0000000	0.00	0.0007250	9.68		
20F29067	5.0 %	✓ 0.2141490	0.42	0.0000000	0.00	0.0058676	0.24	0.0000004	138.85	21.70775	0.17	0.0403671	0.45	0.0000000	0.00	0.0177654	0.63	0.0039074	9.63	0.0081944	138.86	1.471010	0.62	0.0139472	0.94	4.88320	6.61	64.1655	0.50	0.0000000	0.00	0.0008929	9.67		
20F29069	5.7 %	✓ 0.4811319	0.28	0.0000000	0.00	0.0085567	0.24	0.0000003	154.90	31.65639	0.17	0.0906934	0.32	0.0000000	0.00	0.0264176	0.42	0.0056982	9.63	0.0064400	154.91	2.187427	0.41	0.0203392	0.93	7.08011	7.97	144.1615	0.39	0.0000000	0.00	0.0013278	9.66		
20F29070	6.3 %	✓ 0.3047677	0.34	0.0000000	0.00	0.0087325	0.24	0.0000001	730.49	32.30686	0.17	0.0574487	0.37	0.0000000	0.00	0.0268299	0.44	0.0058152	9.63	0.0014497	730.49	2.221571	0.43	0.0207572	0.93	6.16075	6.49	91.3176	0.44	0.0000000	0.00	0.0013485	9.66		
20F29072	7.0 %	✓ 0.3401730	0.31	0.0000000	0.00	0.0115221	0.24	0.0000000	0.00	42.62719	0.16	0.0641226	0.35	0.0000000	0.00	0.0347570	0.34	0.0076729	9.63	0.0000000	0.00	2.877951	0.32	0.0273880	0.93	8.27572	5.16	101.9260	0.42	0.0000000	0.00	0.0017469	9.66		
20F29073	7.8 %	✓ 0.6012634	0.27	0.0000000	0.00	0.0128204	0.24	0.0000000	0.00	47.43008	0.16	0.1133382	0.32	0.0000000	0.00	0.0361615	0.32	0.0085374	9.63	0.0000000	0.00	2.994243	0.30	0.0304738	0.93	8.78818	7.96	180.1566	0.39	0.0000000	0.00	0.0018175	9.65		
20F29075	8.6 %	✓ 0.2325007	0.38	0.0000000	0.00	0.0146119	0.24	0.0000000	0.00	54.05813	0.16	0.0438264	0.41	0.0000000	0.00	0.0419244	0.27	0.0097305	9.63	0.0000000	0.00	3.471428	0.25	0.0347323	0.93	10.08329	3.27	69.6642	0.47	0.0000000	0.00	0.0021072	9.65		
20F29076	9.6 %	✓ 0.2865905	0.34	0.0000000	0.00	0.0158923	0.23	0.0000000	0.00	58.79500	0.16	0.0540223	0.38	0.0000000	0.00	0.0433974	0.27	0.0105831	9.63	0.0000000	0.00	3.593395	0.25	0.0377758	0.93	10.50747	3.60	85.8711	0.44	0.0000000	0.00	0.0021812	9.65		
20F29078	10.6 %	✓ 0.3234557	0.32	0.0000000	0.00	0.0139779	0.24	0.0000000	0.00	51.71250	0.16	0.0609714	0.36	0.0000000	0.00	0.0394069	0.30	0.0093082	9.63	0.0000000	0.00	3.262975	0.28	0.0332253	0.93	7.61103	5.42	96.9170	0.42	0.0000000	0.00	0.0019806	9.65		
20F29079	11.7 %	✓ 0.4002885	0.32	0.0000000	0.00	0.0134695	0.24	0.0000000	0.00	49.83170	0.16	0.0754544	0.35	0.0000000	0.00	0.0396409	0.30	0.0089697	9.63	0.0000000	0.00	3.282348	0.29	0.0320169	0.93	8.93557	5.66	119.9384	0.42	0.0000000	0.00	0.0019924	9.65		
20F29081	12.7 %	✓ 0.2195353	0.40	0.0000000	0.00	0.0134141	0.24	0.0000000	0.00	49.62685	0.16	0.0413824	0.43	0.0000000	0.00	0.0356670	0.34	0.0089328	9.63	0.0000000	0.00	2.953300	0.32	0.0318852	0.93	8.31493	3.85	65.7794	0.48	0.0000000	0.00	0.0017927	9.66		
20F29082	13.7 %	✓ 0.3271788	0.33	0.0000000	0.00	0.0147956	0.23	0.0000000	0.00	54.73773	0.16	0.0616732	0.37	0.0000000	0.00	0.0381273	0.31	0.0098528	9.63	0.0000000	0.00	3.157017	0.30	0.0351690	0.93	9.25095	4.57	98.0326	0.43	0.0000000	0.00	0.0019163	9.65		
20F29084	14.5 %	✓ 0.1258464	0.49	0.0000000	0.00	0.0084842	0.24	0.0000000	0.00	31.38822	0.17	0.0237220	0.52	0.0000000	0.00	0.0213115	0.53	0.0056499	9.63	0.0000000	0.00	1.764636	0.52	0.0201669	0.94	5.61595	3.84	37.7073	0.56	0.0000000	0.00	0.0010711	9.66		
20F29085	15.7 %	✓ 0.1028757	0.57	0.0000000	0.00	0.0107844	0.24	0.0000000	0.00	39.89793	0.16	0.0193921	0.59	0.0000000	0.00	0.0259188	0.44	0.0071816	9.63	0.0000000	0.00	2.146132	0.43	0.0256344	0.93	6.49766	3.04	30.8246	0.63	0.0000000	0.00	0.0013027	9.66		
20F29087	16.7 %	✓ 0.0601824	0.78	0.0000000	0.00	0.0080183	0.24	0.0000004	101.88	29.66434	0.17	0.0113444	0.79	0.0000000	0.00	0.0194654	0.59	0.0053396	9.63	0.0101101	101.88	1.611772	0.58	0.0190593	0.94	4.65194	3.29	18.0324	0.82	0.0000000	0.00	0.0009783	9.67		
20F29088	18.0 %	✓ 0.0467641	0.88	0.0000000	0.00	0.0075421	0.24	0.0000000	0.00	27.90267	0.17	0.0088150	0.90	0.0000000	0.00	0.0176574	0.62	0.0050225	9.63	0.0000000	0.00	1.462067	0.62	0.0179275	0.94	4.18736	3.21	14.0119	0.92	0.0000000	0.00	0.0008875	9.67		
Σ		8.9283839	0.08	0.0000000	0.00	0.1946334	0.06	0.0000128	12.11	720.06437	0.04	1.6830004	0.10	0.0000000	0.00	0.5685571	0.10	0.1296116	2.29	0.2939283	12.11	47.077679	0.09	0.4626414	0.22	152.42272	2.13	2675.2117	0.12	0.0000000	0.00	0.0285762	2.22		
Σ		9.1230301							0.08	720.06437	0.04	2.6750974							1.34	47.540321							0.09	2827.6630							0.16

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F29055	0.5 %		374.337708	16.308575	3.968803	0.188304	1.201397	0.052576	26.765	1.700863	1.00018976	2.590E-12
20F29057	1.5 %		422.958825	2.029949	6.164756	0.032288	1.377569	0.007196	26.778	1.701283	1.00018984	2.735E-11
20F29058	2.0 %	✓	139.963335	1.707745	10.770348	0.133953	0.460832	0.005793	26.783	1.701470	1.00018988	3.662E-12
20F29060	2.5 %	✓	161.272941	1.299851	10.762365	0.089479	0.532936	0.004538	26.795	1.701866	1.00018997	6.291E-12
20F29061	3.0 %	✓	86.609256	0.630983	12.137304	0.091191	0.282787	0.002255	26.801	1.702077	1.00019001	3.782E-12
20F29063	3.5 %	✓	73.841127	0.669097	13.891031	0.128633	0.241563	0.002365	26.813	1.702474	1.00019009	2.607E-12
20F29064	4.0 %	✓	88.773302	0.583635	13.543665	0.092242	0.290592	0.002095	26.819	1.702684	1.00019014	4.347E-12
20F29066	4.5 %	✓	56.581232	0.413763	14.355268	0.107810	0.180418	0.001479	26.831	1.703081	1.00019022	2.415E-12
20F29067	5.0 %	✓	46.499346	0.287154	14.618430	0.093359	0.148164	0.001091	26.838	1.703291	1.00019027	2.444E-12
20F29069	5.7 %	✓	68.504983	0.279280	14.338651	0.062981	0.221803	0.001084	26.849	1.703688	1.00019035	5.354E-12
20F29070	6.3 %	✓	43.472526	0.184280	14.407735	0.065330	0.139810	0.000747	26.856	1.703899	1.00019039	3.451E-12
20F29072	7.0 %	✓	37.931369	0.122270	14.672018	0.052830	0.121051	0.000534	26.867	1.704296	1.00019048	3.901E-12
20F29073	7.8 %	✓	62.467523	0.188465	15.680835	0.053630	0.203022	0.000816	26.874	1.704506	1.00019052	6.689E-12
20F29075	8.6 %	✓	22.745559	0.058326	15.418044	0.046212	0.070480	0.000308	26.885	1.704904	1.00019060	2.823E-12
20F29076	9.6 %	✓	26.542617	0.066363	16.191750	0.047785	0.083302	0.000339	26.891	1.705091	1.00019064	3.412E-12
20F29078	10.6 %	✓	31.712289	0.089610	15.688520	0.050795	0.102370	0.000426	26.903	1.705512	1.00019073	3.700E-12
20F29079	11.7 %	✓	38.884070	0.111323	15.035070	0.049271	0.124838	0.000522	26.909	1.705699	1.00019077	4.562E-12
20F29081	12.7 %	✓	24.821268	0.080474	16.624376	0.059665	0.078035	0.000384	26.922	1.706120	1.00019086	2.623E-12
20F29082	13.7 %	✓	33.608773	0.100408	17.147412	0.057961	0.107129	0.000464	26.927	1.706308	1.00019090	3.798E-12
20F29084	14.5 %	✓	24.274039	0.126627	17.586380	0.095197	0.075264	0.000520	26.940	1.706729	1.00019099	1.534E-12
20F29085	15.7 %	✓	17.185825	0.074834	18.371189	0.083435	0.052335	0.000348	26.945	1.706916	1.00019103	1.321E-12
20F29087	16.7 %	✓	13.910305	0.082904	18.189710	0.108706	0.041820	0.000373	26.957	1.707314	1.00019111	8.031E-13
20F29088	18.0 %	✓	12.297463	0.078840	18.853230	0.119054	0.036694	0.000357	26.963	1.707525	1.00019115	6.443E-13

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F29055	0.5 %	0.0047760 ± 0.0001622	0.0134107 ± 0.0057536	0.0068389 ± 0.0071102	0.0110197 ± 0.0063330	1.1876290 ± 0.0330993
20F29057	1.5 %	0.0048738 ± 0.0001622	0.0126971 ± 0.0057536	0.0105175 ± 0.0071102	0.0053053 ± 0.0063330	1.2223537 ± 0.0330993
20F29058	2.0 %	0.0049294 ± 0.0001622	0.0125532 ± 0.0057536	0.0111472 ± 0.0071102	0.0039231 ± 0.0063330	1.2394008 ± 0.0330993
20F29060	2.5 %	0.0050622 ± 0.0001622	0.0125751 ± 0.0057536	0.0109769 ± 0.0071102	0.0028366 ± 0.0063330	1.2766388 ± 0.0330993
20F29061	3.0 %	0.0051367 ± 0.0001622	0.0127526 ± 0.0057536	0.0102696 ± 0.0071102	0.0030761 ± 0.0063330	1.2960266 ± 0.0330993
20F29063	3.5 %	0.0052767 ± 0.0001622	0.0133578 ± 0.0057536	0.0082215 ± 0.0071102	0.0046265 ± 0.0063330	1.3301791 ± 0.0330993
20F29064	4.0 %	0.0053472 ± 0.0001622	0.0137992 ± 0.0057536	0.0069309 ± 0.0071102	0.0058590 ± 0.0063330	1.3462685 ± 0.0330993
20F29066	4.5 %	0.0054673 ± 0.0001622	0.0148019 ± 0.0057536	0.0044423 ± 0.0071102	0.0086182 ± 0.0063330	1.3715749 ± 0.0330993
20F29067	5.0 %	0.0055215 ± 0.0001622	0.0153932 ± 0.0057536	0.0032193 ± 0.0071102	0.0101786 ± 0.0063330	1.3818243 ± 0.0330993
20F29069	5.7 %	0.0056021 ± 0.0001622	0.0165489 ± 0.0057536	0.0013116 ± 0.0071102	0.0130629 ± 0.0063330	1.3944435 ± 0.0330993
20F29070	6.3 %	0.0056317 ± 0.0001622	0.0171452 ± 0.0057536	0.0005866 ± 0.0071102	0.0144686 ± 0.0063330	1.3973273 ± 0.0330993
20F29072	7.0 %	0.0056606 ± 0.0001622	0.0181505 ± 0.0057536	0.0001352 ± 0.0071102	0.0167383 ± 0.0063330	1.3953373 ± 0.0330993
20F29073	7.8 %	0.0056610 ± 0.0001622	0.0185757 ± 0.0057536	0.0001520 ± 0.0071102	0.0176889 ± 0.0063330	1.3903462 ± 0.0330993
20F29075	8.6 %	0.0056336 ± 0.0001622	0.0190686 ± 0.0057536	0.0005011 ± 0.0071102	0.0189488 ± 0.0063330	1.3737444 ± 0.0330993
20F29076	9.6 %	0.0056082 ± 0.0001622	0.0191187 ± 0.0057536	0.0010963 ± 0.0071102	0.0192940 ± 0.0063330	1.3628730 ± 0.0330993
20F29078	10.6 %	0.0055236 ± 0.0001622	0.0186750 ± 0.0057536	0.0029831 ± 0.0071102	0.0195254 ± 0.0063330	1.3320884 ± 0.0330993
20F29079	11.7 %	0.0054748 ± 0.0001622	0.0181813 ± 0.0057536	0.0039998 ± 0.0071102	0.0194153 ± 0.0063330	1.3159855 ± 0.0330993
20F29081	12.7 %	0.0053441 ± 0.0001622	0.0162519 ± 0.0057536	0.0064367 ± 0.0071102	0.0188255 ± 0.0063330	1.2757281 ± 0.0330993
20F29082	13.7 %	0.0052785 ± 0.0001622	0.0149754 ± 0.0057536	0.0074782 ± 0.0071102	0.0184760 ± 0.0063330	1.2566332 ± 0.0330993
20F29084	14.5 %	0.0051203 ± 0.0001622	0.0109914 ± 0.0057536	0.0093516 ± 0.0071102	0.0177332 ± 0.0063330	1.2129581 ± 0.0330993
20F29085	15.7 %	0.0050478 ± 0.0001622	0.0086655 ± 0.0057536	0.0098249 ± 0.0071102	0.0175224 ± 0.0063330	1.1940139 ± 0.0330993
20F29087	16.7 %	0.0048972 ± 0.0001622	0.0024228 ± 0.0057536	0.0096533 ± 0.0071102	0.0176215 ± 0.0063330	1.1569858 ± 0.0330993
20F29088	18.0 %	0.0048229 ± 0.0001622	0.0016736 ± 0.0057536	0.0086973 ± 0.0071102	0.0181270 ± 0.0063330	1.1402607 ± 0.0330993

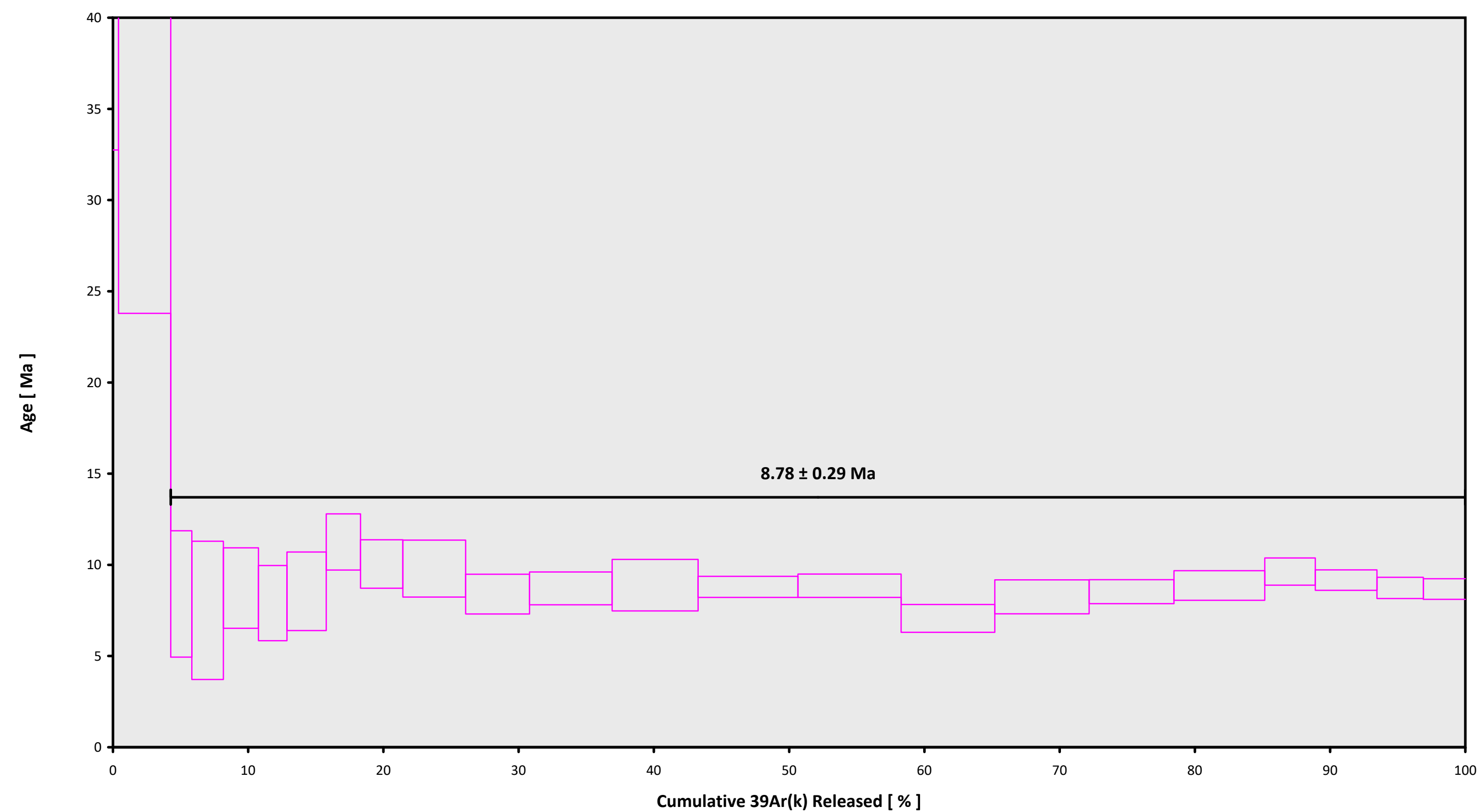
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
20F29055	0.5 %	0.2269933 ± 0.0008142	0.8132	EXP 150 of 150	0.443498 ± 0.006336	0.3230	EXP 150 of 150	0.0574591 ± 0.0078341	0.0146	EXP 150 of 150	0.2065293 ± 0.0056944	0.4648	EXP 148 of 150	74.338550 ± 0.017784	0.9978	EXP 150 of 150
20F29057	1.5 %	2.3862958 ± 0.0022086	0.9915	EXP 149 of 150	6.618780 ± 0.007151	0.9891	EXP 150 of 150	0.6714250 ± 0.0067186	0.6184	EXP 148 of 150	1.8325641 ± 0.0060063	0.8701	EXP 150 of 150	773.700550 ± 0.042458	1.0000	EXP 150 of 150
20F29058	2.0 %	0.3273389 ± 0.0007648	0.9295	EXP 147 of 150	4.675778 ± 0.006568	0.9817	EXP 149 of 150	0.0789990 ± 0.0074576	0.0161	EXP 150 of 150	0.7434292 ± 0.0064118	0.0447	EXP 150 of 150	104.692652 ± 0.021519	0.9987	EXP 150 of 150
20F29060	2.5 %	0.5609607 ± 0.0011299	0.9587	EXP 150 of 150	6.970567 ± 0.007136	0.9907	EXP 146 of 150	0.1304137 ± 0.0070406	0.0247	EXP 150 of 150	1.1053850 ± 0.0062083	0.1509	EXP 150 of 150	179.001152 ± 0.022417	0.9997	EXP 150 of 150
20F29061	3.0 %	0.3353226 ± 0.0008756	0.9148	EXP 149 of 150	8.801588 ± 0.006754	0.9947	EXP 150 of 150	0.0869997 ± 0.0074397	0.0146	EXP 150 of 150	1.2372480 ± 0.0063418	0.3156	EXP 146 of 150	108.134614 ± 0.019451	0.9991	EXP 149 of 150
20F29063	3.5 %	0.2333332 ± 0.0007260	0.8685	EXP 150 of 150	8.141465 ± 0.007924	0.9915	EXP 150 of 150	0.0554878 ± 0.0069851	0.0026	EXP 150 of 150	1.0025319 ± 0.0064155	0.2657	EXP 150 of 150	74.980711 ± 0.021540	0.9972	EXP 150 of 150
20F29064	4.0 %	0.3857821 ± 0.0008738	0.9411	EXP 150 of 150	11.010391 ± 0.007836	0.9955	EXP 150 of 150	0.0936730 ± 0.0070224	0.0216	EXP 150 of 150	1.3896592 ± 0.0064850	0.5233	EXP 148 of 150	124.130897 ± 0.021773	0.9994	EXP 150 of 150
20F29066	4.5 %	0.2113325 ± 0.0006515	0.8640	EXP 150 of 150	10.167036 ± 0.006639	0.9962	EXP 149 of 150	0.0636508 ± 0.0065670	0.0259	EXP 149 of 150	1.2147063 ± 0.0060766	0.5346	EXP 149 of 150	69.580260 ± 0.018377	0.9973	EXP 149 of 150
20F29067	5.0 %	0.2137744 ± 0.0007325	0.8214	EXP 150 of 150	12.755131 ± 0.006678	0.9977	EXP 145 of 150	0.0671104 ± 0.0088913	0.0071	EXP 150 of 150	1.4958602 ± 0.0065499	0.6572	EXP 150 of 150	70.431377 ± 0.020326	0.9965	EXP 150 of 150
20F29069	5.7 %	0.4691079 ± 0.0009093	0.9584	EXP 150 of 150	18.602355 ± 0.007531	0.9986	EXP 149 of 150	0.1281130 ± 0.0069848	0.0711	EXP 150 of 150	2.2219055 ± 0.0062906	0.8515	EXP 150 of 150	152.637433 ± 0.025634	0.9995	EXP 150 of 150
20F29070	6.3 %	0.3023695 ± 0.0007895	0.9094	EXP 150 of 150	18.981993 ± 0.007791	0.9984	EXP 150 of 150	0.0910814 ± 0.0078422	0.0042	EXP 150 of 150	2.2578895 ± 0.0069612	0.8209	EXP 150 of 150	98.876980 ± 0.020492	0.9988	EXP 149 of 150
20F29072	7.0 %	0.3385510 ± 0.0007838	0.9304	EXP 150 of 150	25.044356 ± 0.009905	0.9985	EXP 149 of 150	0.0951386 ± 0.0073792	0.0013	EXP 150 of 150	2.9234935 ± 0.0066956	0.9218	EXP 150 of 150	111.598826 ± 0.020671	0.9992	EXP 149 of 150
20F29073	7.8 %	0.5869105 ± 0.0011066	0.9625	EXP 150 of 150	27.864335 ± 0.009114	0.9991	EXP 148 of 150	0.1543285 ± 0.0082097	0.0262	EXP 150 of 150	3.0438798 ± 0.0063939	0.9261	EXP 150 of 150	190.336910 ± 0.023492	0.9998	EXP 150 of 150
20F29075	8.6 %	0.2395334 ± 0.0006971	0.8814	EXP 150 of 150	31.752889 ± 0.010758	0.9989	EXP 150 of 150	0.0810196 ± 0.0071645	0.0134	EXP 150 of 150	3.5268174 ± 0.0059449	0.9627	EXP 150 of 150	81.123314 ± 0.019402	0.9984	EXP 150 of 150
20F29076	9.6 %	0.2919176 ± 0.0007419	0.9161	EXP 149 of 150	34.533083 ± 0.010721	0.9991	EXP 150 of 150	0.1017326 ± 0.0069450	0.0291	EXP 150 of 150	3.6522339 ± 0.0061246	0.9650	EXP 150 of 150	97.743643 ± 0.019219	0.9991	EXP 150 of 150
20F29078	10.6 %	0.3249150 ± 0.0007719	0.9331	EXP 150 of 150	30.363829 ± 0.009849	0.9991	EXP 149 of 150	0.0926516 ± 0.0069445	0.0077	EXP 150 of 150	3.3173309 ± 0.0065534	0.9506	EXP 150 of 150	105.862128 ± 0.019575	0.9993	EXP 149 of 150
20F29079	11.7 %	0.3971097 ± 0.0009441	0.9400	EXP 150 of 150	29.256094 ± 0.009725	0.9990	EXP 149 of 150	0.1137907 ± 0.0074686	0.0156	EXP 150 of 150	3.3353945 ± 0.0068256	0.9477	EXP 149 of 150	130.191976 ± 0.023576	0.9994	EXP 150 of 150
20F29081	12.7 %	0.2258380 ± 0.0006974	0.8644	EXP 150 of 150	29.130479 ± 0.009348	0.9991	EXP 150 of 150	0.0746959 ± 0.0078010	0.0073	EXP 150 of 150	3.0054648 ± 0.0070276	0.9332	EXP 150 of 150	75.371816 ± 0.019087	0.9982	EXP 150 of 150
20F29082	13.7 %	0.3289679 ± 0.0008120	0.9256	EXP 150 of 150	32.129941 ± 0.010350	0.9990	EXP 150 of 150	0.0995225 ± 0.0070757	0.0232	EXP 150 of 150	3.2122166 ± 0.0068879	0.9400	EXP 150 of 150	108.542085 ± 0.019881	0.9993	EXP 150 of 150
20F29084	14.5 %	0.1322684 ± 0.0005109	0.6659	EXP 150 of 150	18.417296 ± 0.008401	0.9981	EXP 149 of 150	0.0325172 ± 0.0073682	0.0002	EXP 150 of 150	1.8034050 ± 0.0066121	0.8108	EXP 150 of 150	44.537330 ± 0.015439	0.9915	EXP 148 of 150
20F29085	15.7 %	0.1126306 ± 0.0004879	0.6066	EXP 150 of 150	23.413174 ± 0.007997	0.9990	EXP 150 of 150	0.0388108 ± 0.0073021	0.0115	EXP 148 of 150	2.1903461 ± 0.0066075	0.8830	EXP 150 of 150	38.517609 ± 0.017469	0.9734	EXP 149 of 150
20F29087	16.7 %	0.0694516 ± 0.0003935	0.0856	EXP 150 of 150	17.407791 ± 0.008391	0.9980	EXP 149 of 150	0.0366689 ± 0.0074513	0.0218	EXP 148 of 150	1.6492463 ± 0.0068452	0.7605	EXP 150 of 150	23.842343 ± 0.016241	0.7527	EXP 150 of 150
20F29088	18.0 %	0.0562254 ± 0.0003412	0.0060	EXP 149 of 150	16.375926 ± 0.007649	0.9980	EXP 149 of 150	0.0185411 ± 0.0070117	0.0000	EXP 149 of 150	1.4988414 ± 0.0063746	0.7713	EXP 150 of 150	19.340433 ± 0.015815	0.9572	EXP 149 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F29055	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29057	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29058	2.0 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29060	2.5 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29061	3.0 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29063	3.5 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29064	4.0 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29066	4.5 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29067	5.0 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29069	5.7 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29070	6.3 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29072	7.0 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29073	7.8 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29075	8.6 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29076	9.6 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29078	10.6 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29079	11.7 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29081	12.7 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29082	13.7 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29084	14.5 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29085	15.7 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29087	16.7 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	01
20F29088	18.0 %	Dan Miggins	20-OSU-04	0.00	0.00	17.45	Oregon\McClaghry (19-20)	20F29051	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
20F29055	0.5 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	9	58	1
	1.5 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	10	16	1
20F29058	2.0 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	10	24	1
20F29060	2.5 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	10	41	1
20F29061	3.0 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	10	50	1
20F29063	3.5 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	11	7	1
20F29064	4.0 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	11	16	1
20F29066	4.5 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	11	33	1
20F29067	5.0 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	11	42	1
20F29069	5.7 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	11	59	1
20F29070	6.3 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	12	8	1
20F29072	7.0 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	12	25	1
20F29073	7.8 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	12	34	1
20F29075	8.6 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	12	51	1
20F29076	9.6 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	12	59	1
20F29078	10.6 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	13	17	1
20F29079	11.7 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	13	25	1
20F29081	12.7 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	13	43	1
20F29082	13.7 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	13	51	1
20F29084	14.5 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	14	9	1
20F29085	15.7 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	14	17	1
20F29087	16.7 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	14	34	1
20F29088	18.0 %	34 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B14-20)	28.201	0.082	Kuiper et al (2008)	9.36382	0.048	0.00165803	0.048	297.752	0.152	1.0006793	0.046	1	3.54E-14	28	OCT	2020	14	43	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
20F29055	0.5 %	299.63	0.276	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
20F29057	1.5 %	299.63	0.276	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
20F29058	2.0 %	299.63	0.276	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
20F29060	2.5 %	299.63	0.276	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
20F29061	3.0 %	299.63	0.276	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
20F29063	3.5 %	299.63	0.276	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
20F29064	4.0 %	299.63	0.276	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
20F29066	4.5 %	299.63	0.276	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
20F29067	5.0 %	299.63	0.276	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
20F29069	5.7 %	299.63	0.276	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
20F29070	6.3 %	299.63	0.276	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
20F29072	7.0 %	299.63	0.276	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
20F29073	7.8 %	299.63	0.276	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
20F29075	8.6 %	299.63	0.276	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
20F29076	9.6 %	299.63	0.276	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
20F29078	10.6 %	299.63	0.276	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
20F29079	11.7 %	299.63	0.276	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
20F29081	12.7 %	299.63	0.276	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
20F29082	13.7 %	299.63	0.276	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
20F29084	14.5 %	299.63	0.276	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
20F29085	15.7 %	299.63	0.276	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
20F29087	16.7 %	299.63	0.276	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
20F29088	18.0 %	299.63	0.276	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

20F29051.AGE >>> 34 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

8.78 ± 0.29

TOTAL FUSION

9.80 ± 0.42

NORMAL ISOCHRON

8.74 ± 0.56

INVERSE ISOCHRON

8.75 ± 0.55

MSWD (PROBABILITY)

2.34 (0%)

Sample Info

Plagioclase

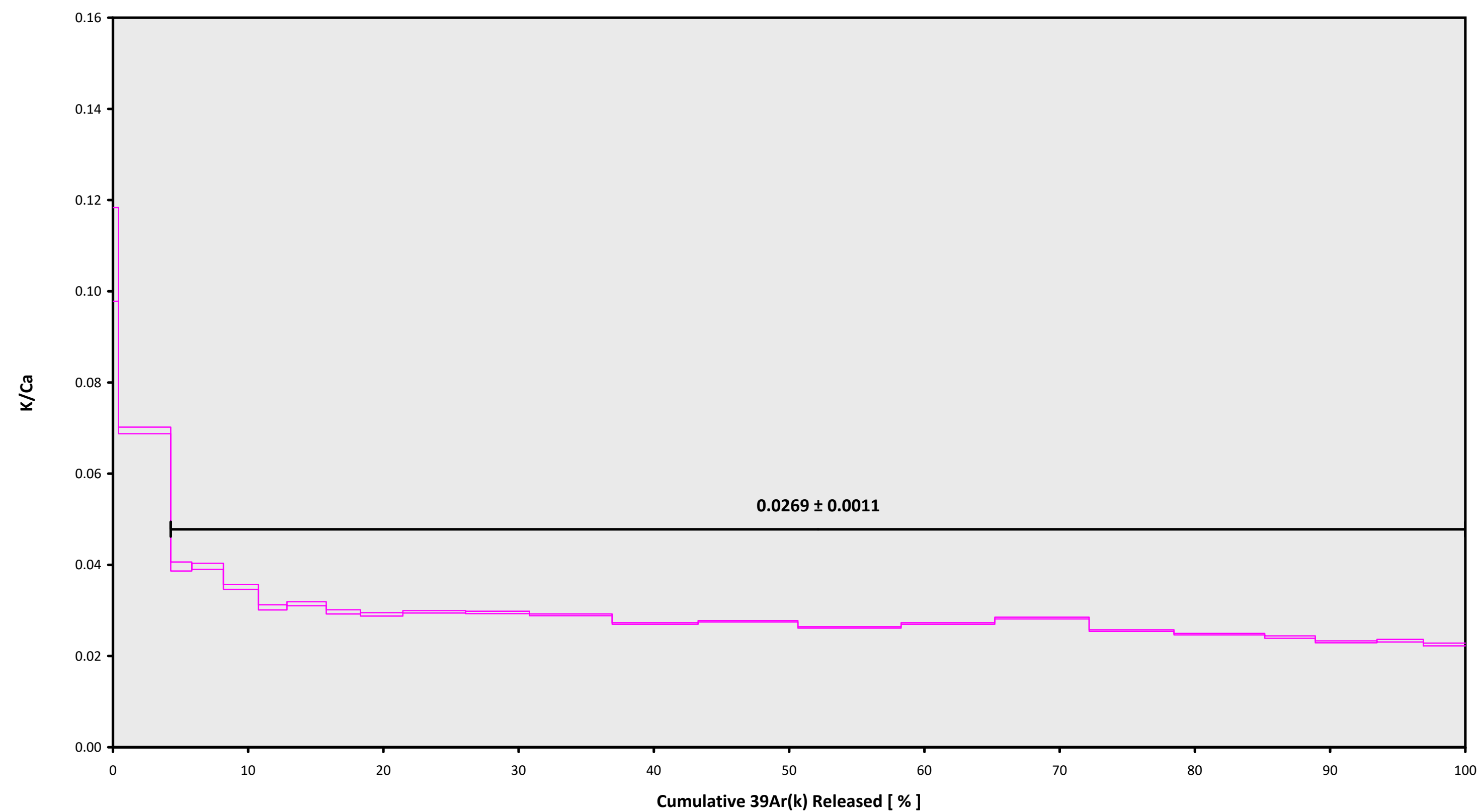
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B14-20)

J = 0.00165803 ± 0.00000080

20F29051.AGE >>> 34 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

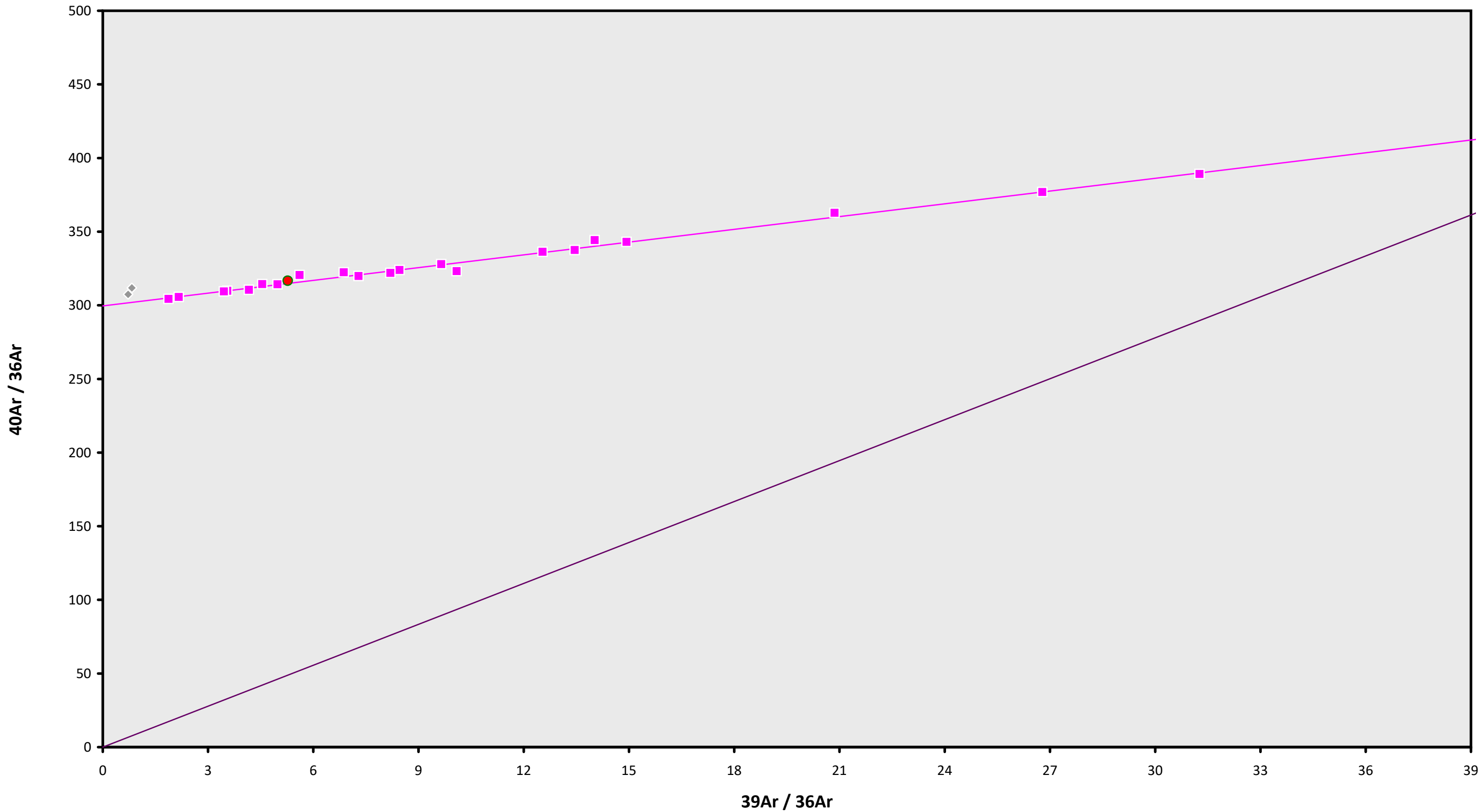
WEIGHTED PLATEAU
 8.78 ± 0.29
TOTAL FUSION
 9.80 ± 0.42
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 8.74 ± 0.56
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Sample Info

Plagioclase
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20F29051.AGE >>> 34 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



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WEIGHTED PLATEAU

8.78 ± 0.29

TOTAL FUSION

9.80 ± 0.42

NORMAL ISOCHRON

8.74 ± 0.56

INVERSE ISOCHRON

8.75 ± 0.55

MSWD (PROBABILITY)

3.93 (0%)

40AR/36AR INTERCEPT

299.6 ± 1.7

Sample Info

Plagioclase

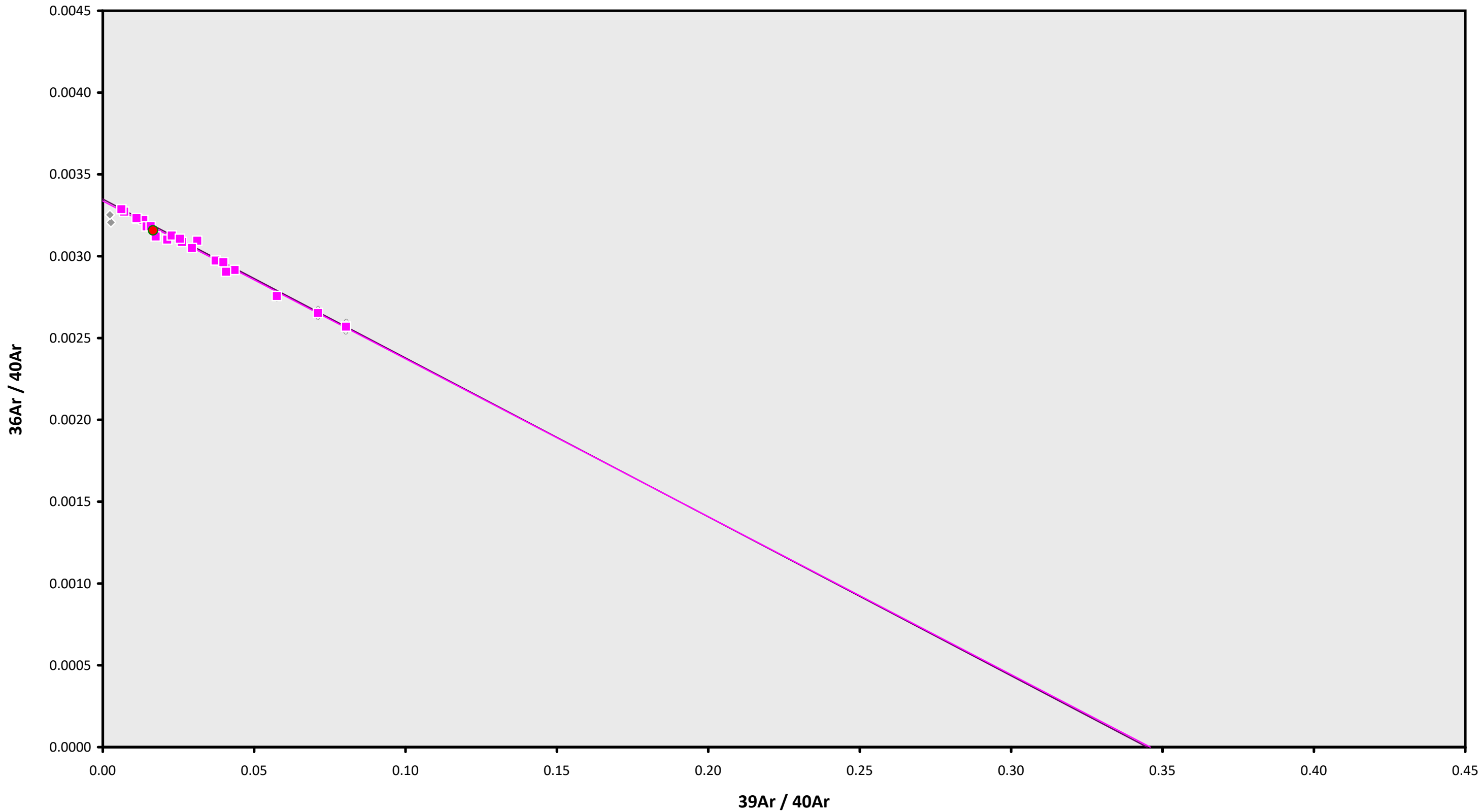
Badger Lake

Dan Miggins

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20F29051.AGE >>> 34 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

8.78 ± 0.29

TOTAL FUSION

9.80 ± 0.42

NORMAL ISOCHRON

8.74 ± 0.56

INVERSE ISOCHRON

8.75 ± 0.55

MSWD (PROBABILITY)

3.91 (0%)

SPREADING FACTOR

21.4%

40AR/36AR INTERCEPT

299.6 ± 1.7

Sample Info

Plagioclase

Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B14-20)

J = $0.00165803 \pm 0.00000080$