

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
20F29013	0.5 %		0.1125902	0.523	0.20798	6.762	0.0215315	45.287	0.019027	47.461	34.3382	0.065	31.60161 ± 36.45040	93.53 ± 105.17	1.74	0.15	0.0391 ± 0.0377
20F29015	1.5 %		1.3884478	0.220	5.29358	0.311	0.3417157	3.113	0.216476	4.092	418.1926	0.009	10.90797 ± 12.15636	32.83 ± 36.26	0.56	1.66	0.0173 ± 0.0014
20F29016	2.0 %	✓	0.4722322	0.286	8.68182	0.225	0.1366318	7.717	0.388843	2.220	141.8593	0.019	2.54097 ± 2.66579	7.70 ± 8.06	0.69	2.99	0.0190 ± 0.0009
20F29018	2.5 %	✓	0.7314773	0.256	15.79277	0.183	0.1937172	5.032	0.839694	1.112	218.8391	0.014	0.96463 ± 1.77789	2.93 ± 5.39	0.37	6.47	0.0226 ± 0.0005
20F29019	3.0 %	✓	0.2744458	0.357	15.58990	0.182	0.0706154	14.262	0.854665	0.982	82.2914	0.031	1.50044 ± 0.81579	4.55 ± 2.47	1.54	6.59	0.0233 ± 0.0005
20F29021	3.5 %	✓	0.1589760	0.459	10.05700	0.210	0.0452896	22.140	0.553153	1.669	47.9800	0.048	2.06522 ± 0.89132	6.26 ± 2.70	2.35	4.26	0.0234 ± 0.0008
20F29022	4.0 %	✓	0.2480605	0.364	11.32840	0.204	0.0605051	16.998	0.615957	1.450	74.6011	0.033	1.87773 ± 1.03931	5.69 ± 3.15	1.53	4.75	0.0231 ± 0.0007
20F29024	4.5 %	✓	0.1251248	0.488	9.72333	0.215	0.0394567	25.424	0.546480	1.652	37.1905	0.062	0.85546 ± 0.74599	2.60 ± 2.26	1.24	4.21	0.0239 ± 0.0008
20F29025	5.0 %	✓	0.1121982	0.558	8.60308	0.229	0.0201797	51.124	0.499714	1.710	33.6508	0.068	1.43128 ± 0.82071	4.34 ± 2.49	2.10	3.85	0.0247 ± 0.0009
20F29027	5.7 %	✓	0.2136123	0.405	9.82585	0.214	0.0614313	16.861	0.588852	1.456	63.8131	0.038	0.96454 ± 1.01273	2.93 ± 3.07	0.88	4.54	0.0255 ± 0.0008
20F29028	6.3 %	✓	0.2554977	0.359	8.22284	0.242	0.0846672	12.010	0.484906	1.765	75.9607	0.031	0.04440 ± 1.34264	0.13 ± 4.08	0.03	3.74	0.0251 ± 0.0009
20F29030	7.0 %	✓	0.2682826	0.359	8.87169	0.219	0.0685496	15.209	0.476817	1.815	80.1797	0.033	0.97511 ± 1.43599	2.96 ± 4.35	0.57	3.67	0.0228 ± 0.0008
20F29031	7.8 %	✓	0.2629720	0.360	11.19625	0.207	0.0656181	16.495	0.565799	1.523	78.5971	0.032	1.17680 ± 1.19023	3.57 ± 3.61	0.84	4.36	0.0215 ± 0.0007
20F29033	8.6 %	✓	0.3499652	0.326	10.84660	0.205	0.0860617	11.951	0.529690	1.584	105.0589	0.024	1.92779 ± 1.57808	5.84 ± 4.78	0.96	4.08	0.0207 ± 0.0007
20F29034	9.6 %	✓	0.5949515	0.266	12.86506	0.190	0.1342199	7.561	0.577255	1.561	178.0042	0.015	1.16404 ± 2.15734	3.53 ± 6.54	0.37	4.44	0.0190 ± 0.0006
20F29036	10.6 %	✓	0.3804098	0.301	17.03465	0.180	0.0896505	11.100	0.726722	1.207	113.3484	0.022	0.93656 ± 1.18332	2.84 ± 3.59	0.59	5.58	0.0181 ± 0.0004
20F29037	11.7 %	✓	0.4406541	0.312	18.50822	0.177	0.1040095	9.913	0.796953	1.086	131.3989	0.020	0.99004 ± 1.27992	3.00 ± 3.88	0.59	6.12	0.0182 ± 0.0004
20F29039	12.7 %	✓	0.4175673	0.297	18.22188	0.174	0.1138318	8.734	0.720741	1.230	124.9132	0.021	1.67931 ± 1.29928	5.09 ± 3.93	0.95	5.53	0.0167 ± 0.0004
20F29040	13.7 %	✓	0.1029261	0.571	18.94690	0.173	0.0456161	20.960	0.728895	1.186	30.3311	0.073	1.40369 ± 0.52794	4.26 ± 1.60	3.32	5.59	0.0163 ± 0.0004
20F29042	14.5 %	✓	0.0412696	0.906	15.31968	0.184	0.0198571	51.357	0.572897	1.549	11.7954	0.196	1.17721 ± 0.41748	3.57 ± 1.27	5.62	4.39	0.0158 ± 0.0005
20F29043	15.7 %	✓	0.0366646	1.025	16.90635	0.178	0.0201492	50.524	0.589461	1.433	10.1882	0.220	0.97630 ± 0.40498	2.96 ± 1.23	5.54	4.51	0.0147 ± 0.0004
20F29045	16.7 %		0.0405530	1.021	15.18303	0.180	0.0099566	104.744	0.553673	1.632	11.3438	0.197	0.76297 ± 0.47290	2.32 ± 1.43	3.66	4.24	0.0154 ± 0.0005
20F29046	18.0 %		0.0306247	1.183	15.07103	0.185	0.0033369	311.767	0.554507	1.556	8.0754	0.282	0.20981 ± 0.41248	0.64 ± 1.25	1.42	4.25	0.0155 ± 0.0005
Σ			7.0595034	0.079	282.29786	0.043	1.8299243	2.674	13.001179	0.324	2111.9512	0.006					

Information on Analysis and Constants Used in Calculations	
Project = MCCLAUGHRY (19-20)	
Sample = 108 BRHC 19	
Material = Plagioclase	
Location = Burns Butte	
Region = Harney Basin	
Analyst = Dan Miggins	
Irradiation = 20-OSU-04 (4B13-20)	
Position = X: 0 Y: 0 Z/H: 16.31484 mm	
FCT-NM Age = 28.201 ± 0.023 Ma	
FCT-NM Reference = Kuiper et al (2008)	
FCT-NM 40Ar/39Ar Ratio = 9.35866 ± 0.00449	
FCT-NM J-value = 0.00165894 ± 0.00000080	
Air Shot 40Ar/36Ar = 297.6450 ± 0.4316	
Air Shot MDF = 1.00076953 ± 0.00044805 (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	

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		1.21774 ± 0.18864 ± 15.49%	3.69 ± 0.57 ± 15.48%	0.84 66%	89.70 19	0.0194 ± 0.0016
		Full External Error ± 0.60 Analytical Error ± 0.57		1.67 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		1.41777 ± 0.33348 ± 23.52%	4.30 ± 1.01 ± 23.49%		23	0.0195 ± 0.0001
		Full External Error ± 1.03 Analytical Error ± 1.01				
Normal Isochron	300.11 ± 0.80 ± 0.27%	1.15125 ± 0.27522 ± 23.91%	3.49 ± 0.83 ± 23.88%	1.12 33%	89.70 19	
		Full External Error ± 0.85 Analytical Error ± 0.83		1.69 1.0566	2σ Confidence Limit Error Magnification	
				4 0.0000042950	Number of Iterations Convergence	
Inverse Isochron	300.11 ± 0.80 ± 0.27%	1.15536 ± 0.24734 ± 21.41%	3.51 ± 0.75 ± 21.39%	1.12 33%	89.70 19	
		Full External Error ± 0.77 Analytical Error ± 0.75		1.69 1.0567	2σ Confidence Limit Error Magnification	
Notes				2 0.0013771289	Number of Iterations Convergence	
		Excess Initial 40Ar/36Ar = 299.83 ± 0.22 (%SD).		6%	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
20F29013	0.5 %		0.1125340	0.20798	0.0000533	0.018894	0.597072	93.53 ± 105.17	1.74	0.15	0.0391 ± 0.0377
20F29015	1.5 %		1.3870137	5.29358	0.0767375	0.213075	2.324217	32.83 ± 36.26	0.56	1.66	0.0173 ± 0.0014
20F29016	2.0 %	✓	0.4698837	8.68182	0.0418673	0.383265	0.973865	7.70 ± 8.06	0.69	2.99	0.0190 ± 0.0009
20F29018	2.5 %	✓	0.7272066	15.79277	0.0437776	0.829547	0.800203	2.93 ± 5.39	0.37	6.47	0.0226 ± 0.0005
20F29019	3.0 %	✓	0.2702315	15.58990	0.0066698	0.844649	1.267348	4.55 ± 2.47	1.54	6.59	0.0233 ± 0.0005
20F29021	3.5 %	✓	0.1562573	10.05700	0.0074224	0.546691	1.129039	6.26 ± 2.70	2.35	4.26	0.0234 ± 0.0008
20F29022	4.0 %	✓	0.2449982	11.32840	0.0049328	0.608679	1.142937	5.69 ± 3.15	1.53	4.75	0.0231 ± 0.0007
20F29024	4.5 %	✓	0.1224963	9.72333	0.0080916	0.540233	0.462145	2.60 ± 2.26	1.24	4.21	0.0239 ± 0.0008
20F29025	5.0 %	✓	0.1098727	8.60308	0.0000000	0.494186	0.707321	4.34 ± 2.49	2.10	3.85	0.0247 ± 0.0009
20F29027	5.7 %	✓	0.2109558	9.82585	0.0128621	0.582539	0.561884	2.93 ± 3.07	0.88	4.54	0.0255 ± 0.0008
20F29028	6.3 %	✓	0.2532738	8.22284	0.0296525	0.479623	0.021297	0.13 ± 4.08	0.03	3.74	0.0251 ± 0.0009
20F29030	7.0 %	✓	0.2658841	8.87169	0.0111439	0.471117	0.459392	2.96 ± 4.35	0.57	3.67	0.0228 ± 0.0008
20F29031	7.8 %	✓	0.2599454	11.19625	0.0078568	0.558605	0.657366	3.57 ± 3.61	0.84	4.36	0.0215 ± 0.0007
20F29033	8.6 %	✓	0.3470329	10.84660	0.0123807	0.522721	1.007695	5.84 ± 4.78	0.96	4.08	0.0207 ± 0.0007
20F29034	9.6 %	✓	0.5914735	12.86506	0.0135397	0.568990	0.662325	3.53 ± 6.54	0.37	4.44	0.0190 ± 0.0006
20F29036	10.6 %	✓	0.3758050	17.03465	0.0071006	0.715777	0.670372	2.84 ± 3.59	0.59	5.58	0.0181 ± 0.0004
20F29037	11.7 %	✓	0.4356509	18.50822	0.0090766	0.785061	0.777245	3.00 ± 3.88	0.59	6.12	0.0182 ± 0.0004
20F29039	12.7 %	✓	0.4126409	18.22188	0.0242061	0.709034	1.190686	5.09 ± 3.93	0.95	5.53	0.0167 ± 0.0004
20F29040	13.7 %	✓	0.0978041	18.94690	0.0151137	0.716721	1.006053	4.26 ± 1.60	3.32	5.59	0.0163 ± 0.0004
20F29042	14.5 %	✓	0.0371286	15.31968	0.0033008	0.563054	0.662835	3.57 ± 1.27	5.62	4.39	0.0158 ± 0.0005
20F29043	15.7 %	✓	0.0320946	16.90635	0.0040684	0.578598	0.564886	2.96 ± 1.23	5.54	4.51	0.0147 ± 0.0004
20F29045	16.7 %		0.0364490	15.18303	0.0000000	0.543918	0.414994	2.32 ± 1.43	3.66	4.24	0.0154 ± 0.0005
20F29046	18.0 %		0.0265510	15.07103	0.0000000	0.544824	0.114309	0.64 ± 1.25	1.42	4.25	0.0155 ± 0.0005
Σ			6.9831836	282.29786	0.3398542	12.819803	18.175485				

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 = 108 BRHC 19 Material = Plagioclase Location = Burns Butte Region = Harney Basin Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B13-20) J = 0.00165894 ± 0.00000080 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	1.21774 ± 0.18864 ± 15.49%	3.69 ± 0.57 ± 15.48% Full External Error ± 0.60 Analytical Error ± 0.57	0.84 66% 1.67 1.0000	89.70 19 2σ Confidence Limit Error Magnification	0.0194 ± 0.0016
	Total Fusion Age	1.41777 ± 0.33348 ± 23.52%	4.30 ± 1.01 ± 23.49% Full External Error ± 1.03 Analytical Error ± 1.01		23	0.0195 ± 0.0001

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
20F29013	0.5 %		0.17 ± 0.16	305.14 ± 3.22	0.0109
20F29015	1.5 %		0.15 ± 0.01	301.51 ± 1.33	0.0528
20F29016	2.0 %	✓	0.82 ± 0.04	301.90 ± 1.74	0.1265
20F29018	2.5 %	✓	1.14 ± 0.03	300.93 ± 1.55	0.2225
20F29019	3.0 %	✓	3.13 ± 0.07	304.52 ± 2.22	0.3418
20F29021	3.5 %	✓	3.50 ± 0.12	307.06 ± 2.89	0.2653
20F29022	4.0 %	✓	2.48 ± 0.08	304.50 ± 2.25	0.2425
20F29024	4.5 %	✓	4.41 ± 0.15	303.60 ± 3.05	0.2838
20F29025	5.0 %	✓	4.50 ± 0.16	306.27 ± 3.52	0.3108
20F29027	5.7 %	✓	2.76 ± 0.08	302.49 ± 2.49	0.2671
20F29028	6.3 %	✓	1.89 ± 0.07	299.91 ± 2.18	0.1979
20F29030	7.0 %	✓	1.77 ± 0.07	301.56 ± 2.19	0.1924
20F29031	7.8 %	✓	2.15 ± 0.07	302.36 ± 2.21	0.2290
20F29033	8.6 %	✓	1.51 ± 0.05	302.73 ± 2.00	0.2003
20F29034	9.6 %	✓	0.96 ± 0.03	300.95 ± 1.61	0.1662
20F29036	10.6 %	✓	1.90 ± 0.05	301.61 ± 1.84	0.2404
20F29037	11.7 %	✓	1.80 ± 0.04	301.61 ± 1.91	0.2745
20F29039	12.7 %	✓	1.72 ± 0.04	302.72 ± 1.82	0.2328
20F29040	13.7 %	✓	7.33 ± 0.20	310.12 ± 3.75	0.4426
20F29042	14.5 %	✓	15.16 ± 0.57	317.68 ± 6.52	0.5285
20F29043	15.7 %	✓	18.03 ± 0.68	317.43 ± 7.57	0.6151
20F29045	16.7 %		14.92 ± 0.60	311.22 ± 7.18	0.5563
20F29046	18.0 %		20.52 ± 0.86	304.14 ± 8.48	0.6393

Results		40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron		300.11 ± 0.80 ± 0.27%	1.15125 ± 0.27522 ± 23.91%	3.49 ± 0.83 ± 23.88%	1.12 33%
				Full External Error ± 0.85	
				Analytical Error ± 0.83	
Statistics	2σ Confidence Limit	1.69	Convergence	0.000004295019	
	Error Magnification	1.0566	Number of Iterations	4	
	Number of Data Points	19	Calculated Line	Weighted York-2	

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F29013	0.5 %		0.0005502 ± 0.0005260	0.00327723 ± 0.00003456	0.0002
20F29015	1.5 %		0.0005095 ± 0.0000424	0.00331669 ± 0.00001461	0.0001
20F29016	2.0 %	✓	0.0027017 ± 0.0001217	0.00331233 ± 0.00001912	0.0006
20F29018	2.5 %	✓	0.0037907 ± 0.0000853	0.00332303 ± 0.00001713	0.0006
20F29019	3.0 %	✓	0.0102642 ± 0.0002040	0.00328386 ± 0.00002391	0.0027
20F29021	3.5 %	✓	0.0113942 ± 0.0003849	0.00325674 ± 0.00003060	0.0030
20F29022	4.0 %	✓	0.0081591 ± 0.0002396	0.00328413 ± 0.00002430	0.0021
20F29024	4.5 %	✓	0.0145262 ± 0.0004858	0.00329378 ± 0.00003310	0.0045
20F29025	5.0 %	✓	0.0146859 ± 0.0005083	0.00326512 ± 0.00003748	0.0047
20F29027	5.7 %	✓	0.0091289 ± 0.0002687	0.00330586 ± 0.00002721	0.0024
20F29028	6.3 %	✓	0.0063141 ± 0.0002254	0.00333429 ± 0.00002421	0.0015
20F29030	7.0 %	✓	0.0058758 ± 0.0002159	0.00331611 ± 0.00002409	0.0016
20F29031	7.8 %	✓	0.0071072 ± 0.0002194	0.00330733 ± 0.00002419	0.0018
20F29033	8.6 %	✓	0.0049755 ± 0.0001598	0.00330323 ± 0.00002180	0.0011
20F29034	9.6 %	✓	0.0031965 ± 0.0001013	0.00332281 ± 0.00001780	0.0005
20F29036	10.6 %	✓	0.0063149 ± 0.0001549	0.00331550 ± 0.00002025	0.0013
20F29037	11.7 %	✓	0.0059747 ± 0.0001318	0.00331549 ± 0.00002096	0.0011
20F29039	12.7 %	✓	0.0056762 ± 0.0001420	0.00330343 ± 0.00001987	0.0011
20F29040	13.7 %	✓	0.0236303 ± 0.0005709	0.00322460 ± 0.00003903	0.0074
20F29042	14.5 %	✓	0.0477363 ± 0.0015167	0.00314780 ± 0.00006461	0.0236
20F29043	15.7 %	✓	0.0567932 ± 0.0016776	0.00315029 ± 0.00007511	0.0274
20F29045	16.7 %		0.0479497 ± 0.0016042	0.00321321 ± 0.00007411	0.0200
20F29046	18.0 %		0.0674697 ± 0.0021706	0.00328801 ± 0.00009163	0.0354

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	300.11 ± 0.80 ± 0.27%		1.15536 ± 0.24734 ± 21.41%	3.51 ± 0.75 ± 21.39%	1.12 33%
	Full External Error ± 0.77				
	Analytical Error ± 0.75				
Statistics	2σ Confidence Limit	1.69	Convergence	0.0013771289	
	Error Magnification	1.0567	Number of Iterations	2	
	Number of Data Points	19	Calculated Line	Weighted York-2	
	Spreading Factor	6.2%			

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
20F29013	0.5 %	0.1125340	0.52	0.0000000	0.00	0.0000562	6.76	0.0000000	#####	0.20798	6.76	0.0212127	0.55	0.0000000	0.00	0.0002282	47.80	0.0000374	11.77	0.0000533	#####	0.018894	47.80	0.0001336	6.82	0.597072	32.27	33.7411	0.57	0.0000000	0.00	0.0000115	48.76
20F29015	1.5 %	1.3870137	0.22	0.0000000	0.00	0.0014309	0.35	0.0000033	13.93	5.29358	0.31	0.2614521	0.27	0.0000000	0.00	0.0025733	4.16	0.0009528	9.64	0.0767375	13.96	0.213075	4.16	0.0034011	0.97	2.324217	55.57	415.8683	0.31	0.0000000	0.00	0.0001293	10.51
20F29016	2.0 %	✓0.4698837	0.29	0.0000000	0.00	0.0023467	0.28	0.0000018	25.22	8.68182	0.23	0.0885731	0.33	0.0000000	0.00	0.0046287	2.25	0.0015627	9.63	0.0418673	25.23	0.383265	2.25	0.0055781	0.95	0.973865	52.41	140.8852	0.36	0.0000000	0.00	0.0002326	9.91
20F29018	2.5 %	✓0.7272066	0.26	0.0000000	0.00	0.0042688	0.25	0.0000019	22.32	15.79277	0.18	0.1370785	0.30	0.0000000	0.00	0.0100184	1.13	0.0028427	9.63	0.0437776	22.34	0.829547	1.13	0.0101469	0.94	0.800203	92.15	218.0384	0.34	0.0000000	0.00	0.0005035	9.72
20F29019	3.0 %	✓0.2702315	0.36	0.0000000	0.00	0.0042139	0.25	0.0000003	151.10	15.58990	0.18	0.0509386	0.40	0.0000000	0.00	0.0102008	1.00	0.0028062	9.63	0.0066698	151.10	0.844649	0.99	0.0100165	0.94	1.267348	27.17	81.0235	0.42	0.0000000	0.00	0.0005127	9.70
20F29021	3.5 %	✓0.1562573	0.47	0.0000000	0.00	0.0027184	0.27	0.0000003	135.14	10.05700	0.21	0.0294545	0.49	0.0000000	0.00	0.0066024	1.69	0.0018103	9.63	0.0074224	135.14	0.546691	1.69	0.0064616	0.94	1.129039	21.51	46.8506	0.52	0.0000000	0.00	0.0003318	9.80
20F29022	4.0 %	✓0.2449982	0.37	0.0000000	0.00	0.0030621	0.27	0.0000002	208.58	11.32840	0.20	0.0461822	0.40	0.0000000	0.00	0.0073510	1.47	0.0020391	9.63	0.0049328	208.58	0.608679	1.47	0.0072785	0.94	1.142937	27.64	73.4578	0.43	0.0000000	0.00	0.0003695	9.76
20F29024	4.5 %	✓0.1224963	0.50	0.0000000	0.00	0.0026282	0.27	0.0000003	124.02	9.72333	0.22	0.0230905	0.52	0.0000000	0.00	0.0065244	1.67	0.0017502	9.63	0.0080916	124.02	0.540233	1.67	0.0062472	0.94	0.462145	43.57	36.7281	0.54	0.0000000	0.00	0.0003279	9.79
20F29025	5.0 %	✓0.1098727	0.57	0.0000000	0.00	0.0023254	0.29	0.0000000	0.00	8.60308	0.23	0.0207110	0.59	0.0000000	0.00	0.0059683	1.73	0.0015486	9.63	0.0000000	0.00	0.494186	1.73	0.0055275	0.95	0.707321	28.62	32.9431	0.61	0.0000000	0.00	0.0003000	9.80
20F29027	5.7 %	✓0.2109558	0.41	0.0000000	0.00	0.0026559	0.27	0.0000006	80.57	9.82585	0.21	0.0397652	0.44	0.0000000	0.00	0.0070353	1.47	0.0017687	9.63	0.0128621	80.57	0.582539	1.47	0.0063131	0.94	0.561884	52.48	63.2509	0.46	0.0000000	0.00	0.0003536	9.76
20F29028	6.3 %	✓0.2532738	0.36	0.0000000	0.00	0.0022226	0.30	0.0000013	34.32	8.22284	0.24	0.0477421	0.40	0.0000000	0.00	0.0057924	1.79	0.0014801	9.63	0.0296525	34.33	0.479623	1.78	0.0052832	0.95	0.021297	#####	75.9391	0.42	0.0000000	0.00	0.0002911	9.81
20F29030	7.0 %	✓0.2658841	0.36	0.0000000	0.00	0.0023980	0.28	0.0000005	93.60	8.87169	0.22	0.0501192	0.40	0.0000000	0.00	0.0056897	1.84	0.0015969	9.63	0.0111439	93.60	0.471117	1.84	0.0057001	0.95	0.459392	73.61	79.7200	0.42	0.0000000	0.00	0.0002860	9.82
20F29031	7.8 %	✓0.2599454	0.36	0.0000000	0.00	0.0030263	0.27	0.0000003	137.82	11.19625	0.21	0.0489997	0.40	0.0000000	0.00	0.0067463	1.55	0.0020153	9.63	0.0078568	137.82	0.558605	1.54	0.0071936	0.94	0.657366	50.55	77.9394	0.43	0.0000000	0.00	0.0003391	9.77
20F29033	8.6 %	✓0.3470329	0.33	0.0000000	0.00	0.0029318	0.27	0.0000005	83.13	10.84660	0.20	0.0654157	0.37	0.0000000	0.00	0.0063129	1.61	0.0019524	9.63	0.0123807	83.13	0.522721	1.61	0.0069689	0.94	1.007695	40.90	104.0509	0.40	0.0000000	0.00	0.0003173	9.78
20F29034	9.6 %	✓0.5914735	0.27	0.0000000	0.00	0.0034774	0.26	0.0000006	75.03	12.86506	0.19	0.1114928	0.31	0.0000000	0.00	0.0068717	1.59	0.0023157	9.63	0.0135397	75.04	0.568990	1.58	0.0082658	0.94	0.662325	92.65	177.3415	0.35	0.0000000	0.00	0.0003454	9.78
20F29036	10.6 %	✓0.3758050	0.30	0.0000000	0.00	0.0046045	0.25	0.0000003	140.27	17.03465	0.18	0.0708392	0.34	0.0000000	0.00	0.0086444	1.23	0.0030662	9.63	0.0071006	140.27	0.715777	1.23	0.0109448	0.94	0.670372	63.16	112.6776	0.38	0.0000000	0.00	0.0004345	9.73
20F29037	11.7 %	✓0.4356509	0.32	0.0000000	0.00	0.0050028	0.25	0.0000004	113.71	18.50822	0.18	0.0821202	0.35	0.0000000	0.00	0.0094812	1.11	0.0033315	9.63	0.0090766	113.72	0.785061	1.10	0.0118915	0.94	0.777245	64.63	130.6212	0.38	0.0000000	0.00	0.0004765	9.71
20F29039	12.7 %	✓0.4126409	0.30	0.0000000	0.00	0.0049254	0.24	0.0000010	41.13	18.22188	0.17	0.0777828	0.34	0.0000000	0.00	0.0085630	1.25	0.0032799	9.63	0.0242061	41.14	0.709034	1.25	0.0117076	0.94	1.190686	38.66	123.7221	0.37	0.0000000	0.00	0.0004304	9.73
20F29040	13.7 %	✓0.0978041	0.60	0.0000000	0.00	0.0051213	0.24	0.0000007	63.32	18.94690	0.17	0.0184361	0.62	0.0000000	0.00	0.0086558	1.21	0.0034104	9.63	0.0151137	63.32	0.716721	1.21	0.0121734	0.94	1.006053	18.77	29.3246	0.64	0.0000000	0.00	0.0004350	9.73
20F29042	14.5 %	✓0.0371286	1.01	0.0000000	0.00	0.0041409	0.25	0.0000001	309.09	15.31968	0.18	0.0069987	1.02	0.0000000	0.00	0.0068000	1.58	0.0027575	9.63	0.0033008	309.09	0.563054	1.58	0.0098429	0.94	0.662835	17.66	11.1323	1.03	0.0000000	0.00	0.0003418	9.78
20F29043	15.7 %	✓0.0320946	1.17	0.0000000	0.00	0.0045698	0.25	0.0000002	250.35	16.90635	0.18	0.0060498	1.18	0.0000000	0.00	0.0069877	1.46	0.0030431	9.63	0.0040684	250.35	0.578598	1.46	0.0108623	0.94	0.564886	20.69	9.6229	1.19	0.0000000	0.00	0.0003512	9.76
20F29045	16.7 %	0.0364490	1.14	0.0000000	0.00	0.0041040	0.25	0.0000000	0.00	15.18303	0.18	0.0068706	1.15	0.0000000	0.00	0.0065689	1.66	0.0027329	9.63	0.0000000	0.00	0.543918	1.66	0.0097551	0.94	0.414994	30.95	10.9285	1.16	0.0000000	0.00	0.0003302	9.79
20F29046	18.0 %	0.0265510	1.36	0.0000000	0.00	0.0040737	0.25	0.0000000	0.00	15.07103	0.18	0.0050049	1.37	0.0000000	0.00	0.0065798	1.59	0.0027128	9.63	0.0000000	0.00	0.544824	1.58	0.0096831	0.94	0.114309	98.29	7.9608	1.38	0.0000000	0.00	0.0003307	9.78
Σ		6.9831836	0.08	0.0000000	0.00	0.0763051	0.06	0.0000147	13.42	282.29786	0.04	1.3163301	0.09	0.0000000	0.00	0.1548248	0.33	0.0508136	2.14	0.3398542	13.41	12.819803	0.33	0.1813764	0.21	18.175485	11.76	2093.7679	0.10	0.0000000	0.00	0.0077816	2.14
Σ								7.0595034	0.08	282.29786	0.04									1.8618227	2.45			13.001179	0.32							2111.9512	0.14

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F29013	0.5 %		1804.673712	856.519671	10.930635	5.240194	5.917284	2.808581	26.524	1.692763	1.00018805	1.216E-12
20F29015	1.5 %		1931.818156	79.052778	24.453402	1.003555	6.413859	0.262842	26.535	1.693158	1.00018813	1.480E-11
20F29016	2.0 %	✓	364.823976	8.098353	22.327308	0.498142	1.214454	0.027181	26.542	1.693367	1.00018818	5.022E-12
20F29018	2.5 %	✓	260.617657	2.898172	18.807767	0.211951	0.871124	0.009940	26.553	1.693762	1.00018826	7.747E-12
20F29019	3.0 %	✓	96.284898	0.945678	18.240935	0.182103	0.321115	0.003354	26.560	1.693971	1.00018831	2.913E-12
20F29021	3.5 %	✓	86.739158	1.448013	18.181231	0.305784	0.287400	0.004974	26.572	1.694366	1.00018839	1.698E-12
20F29022	4.0 %	✓	121.114144	1.757068	18.391533	0.269358	0.402724	0.006022	26.577	1.694552	1.00018843	2.641E-12
20F29024	4.5 %	✓	68.054657	1.124995	17.792641	0.296402	0.228965	0.003944	26.590	1.694971	1.00018852	1.317E-12
20F29025	5.0 %	✓	67.340092	1.152424	17.216011	0.297028	0.224525	0.004039	26.595	1.695157	1.00018856	1.191E-12
20F29027	5.7 %	✓	108.368599	1.577867	16.686441	0.245494	0.362760	0.005480	26.608	1.695575	1.00018864	2.259E-12
20F29028	6.3 %	✓	156.650264	2.765987	16.957583	0.302180	0.526901	0.009492	26.613	1.695761	1.00018868	2.689E-12
20F29030	7.0 %	✓	168.156110	3.052511	18.606053	0.340156	0.562653	0.010409	26.625	1.696157	1.00018877	2.838E-12
20F29031	7.8 %	✓	138.913603	2.116660	19.788402	0.304238	0.464780	0.007276	26.631	1.696366	1.00018881	2.782E-12
20F29033	8.6 %	✓	198.340365	3.142415	20.477267	0.327094	0.660698	0.010686	26.643	1.696762	1.00018889	3.719E-12
20F29034	9.6 %	✓	308.362887	4.814896	22.286596	0.350546	1.030655	0.016324	26.649	1.696971	1.00018894	6.301E-12
20F29036	10.6 %	✓	155.972234	1.883576	23.440399	0.286146	0.523460	0.006514	26.661	1.697367	1.00018902	4.013E-12
20F29037	11.7 %	✓	164.876655	1.791213	23.223734	0.255589	0.552924	0.006249	26.667	1.697577	1.00018906	4.652E-12
20F29039	12.7 %	✓	173.312144	2.132245	25.282130	0.314108	0.579358	0.007331	26.679	1.697972	1.00018915	4.422E-12
20F29040	13.7 %	✓	41.612419	0.494284	25.994007	0.311426	0.141208	0.001858	26.685	1.698182	1.00018919	1.074E-12
20F29042	14.5 %	✓	20.589090	0.321534	26.740717	0.417200	0.072037	0.001293	26.697	1.698578	1.00018928	4.176E-13
20F29043	15.7 %	✓	17.283879	0.250652	28.681043	0.414313	0.062200	0.001096	26.703	1.698765	1.00018931	3.607E-13
20F29045	16.7 %		20.488326	0.336764	27.422367	0.450219	0.073244	0.001410	26.715	1.699184	1.00018940	4.016E-13
20F29046	18.0 %		14.563251	0.230283	27.179132	0.425862	0.055229	0.001079	26.721	1.699370	1.00018944	2.859E-13

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F29013	0.5 %	0.0052904 ± 0.0001926	0.0143710 ± 0.0058436	0.0087412 ± 0.0069873	0.0080920 ± 0.0062330	1.2564072 ± 0.0157242
20F29015	1.5 %	0.0052497 ± 0.0001926	0.0117087 ± 0.0058436	0.0091071 ± 0.0069873	0.0103311 ± 0.0062330	1.2318136 ± 0.0157242
20F29016	2.0 %	0.0051757 ± 0.0001926	0.0113269 ± 0.0058436	0.0086902 ± 0.0069873	0.0115232 ± 0.0062330	1.2126106 ± 0.0157242
20F29018	2.5 %	0.0049801 ± 0.0001926	0.0119507 ± 0.0058436	0.0072032 ± 0.0069873	0.0136625 ± 0.0062330	1.1708610 ± 0.0157242
20F29019	3.0 %	0.0048633 ± 0.0001926	0.0127679 ± 0.0058436	0.0062158 ± 0.0069873	0.0146894 ± 0.0062330	1.1481573 ± 0.0157242
20F29021	3.5 %	0.0046492 ± 0.0001926	0.0147833 ± 0.0058436	0.0043073 ± 0.0069873	0.0163420 ± 0.0062330	1.1086061 ± 0.0157242
20F29022	4.0 %	0.0045606 ± 0.0001926	0.0158109 ± 0.0058436	0.0034885 ± 0.0069873	0.0169651 ± 0.0062330	1.0927971 ± 0.0157242
20F29024	4.5 %	0.0044109 ± 0.0001926	0.0179890 ± 0.0058436	0.0020612 ± 0.0069873	0.0179517 ± 0.0062330	1.0667008 ± 0.0157242
20F29025	5.0 %	0.0043716 ± 0.0001926	0.0188124 ± 0.0058436	0.0016703 ± 0.0069873	0.0181939 ± 0.0062330	1.0600213 ± 0.0157242
20F29027	5.7 %	0.0043533 ± 0.0001926	0.0201724 ± 0.0058436	0.0014450 ± 0.0069873	0.0182831 ± 0.0062330	1.0571831 ± 0.0157242
20F29028	6.3 %	0.0043771 ± 0.0001926	0.0205278 ± 0.0058436	0.0016502 ± 0.0069873	0.0181225 ± 0.0062330	1.0614033 ± 0.0157242
20F29030	7.0 %	0.0044893 ± 0.0001926	0.0207667 ± 0.0058436	0.0026915 ± 0.0069873	0.0173957 ± 0.0062330	1.0809183 ± 0.0157242
20F29031	7.8 %	0.0045787 ± 0.0001926	0.0206367 ± 0.0058436	0.0035428 ± 0.0069873	0.0168169 ± 0.0062330	1.0964100 ± 0.0157242
20F29033	8.6 %	0.0047886 ± 0.0001926	0.0200456 ± 0.0058436	0.0055798 ± 0.0069873	0.0154190 ± 0.0062330	1.1330242 ± 0.0157242
20F29034	9.6 %	0.0049122 ± 0.0001926	0.0196416 ± 0.0058436	0.0068003 ± 0.0069873	0.0145526 ± 0.0062330	1.1548951 ± 0.0157242
20F29036	10.6 %	0.0051421 ± 0.0001926	0.0189933 ± 0.0058436	0.0091172 ± 0.0069873	0.0127772 ± 0.0062330	1.1967767 ± 0.0157242
20F29037	11.7 %	0.0052475 ± 0.0001926	0.0188666 ± 0.0058436	0.0102134 ± 0.0069873	0.0118150 ± 0.0062330	1.2170989 ± 0.0157242
20F29039	12.7 %	0.0053765 ± 0.0001926	0.0194716 ± 0.0058436	0.0116615 ± 0.0069873	0.0100929 ± 0.0062330	1.2461301 ± 0.0157242
20F29040	13.7 %	0.0053882 ± 0.0001926	0.0204584 ± 0.0058436	0.0119107 ± 0.0069873	0.0092992 ± 0.0062330	1.2536482 ± 0.0157242
20F29042	14.5 %	0.0052525 ± 0.0001926	0.0241649 ± 0.0058436	0.0109085 ± 0.0069873	0.0081982 ± 0.0062330	1.2454259 ± 0.0157242
20F29043	15.7 %	0.0050967 ± 0.0001926	0.0269777 ± 0.0058436	0.0095721 ± 0.0069873	0.0079297 ± 0.0062330	1.2283898 ± 0.0157242
20F29045	16.7 %	0.0044647 ± 0.0001926	0.0365798 ± 0.0058436	0.0038920 ± 0.0069873	0.0081350 ± 0.0062330	1.1493919 ± 0.0157242
20F29046	18.0 %	0.0040331 ± 0.0001926	0.0426011 ± 0.0058436	0.0000707 ± 0.0069873	0.0086721 ± 0.0062330	1.0924279 ± 0.0157242

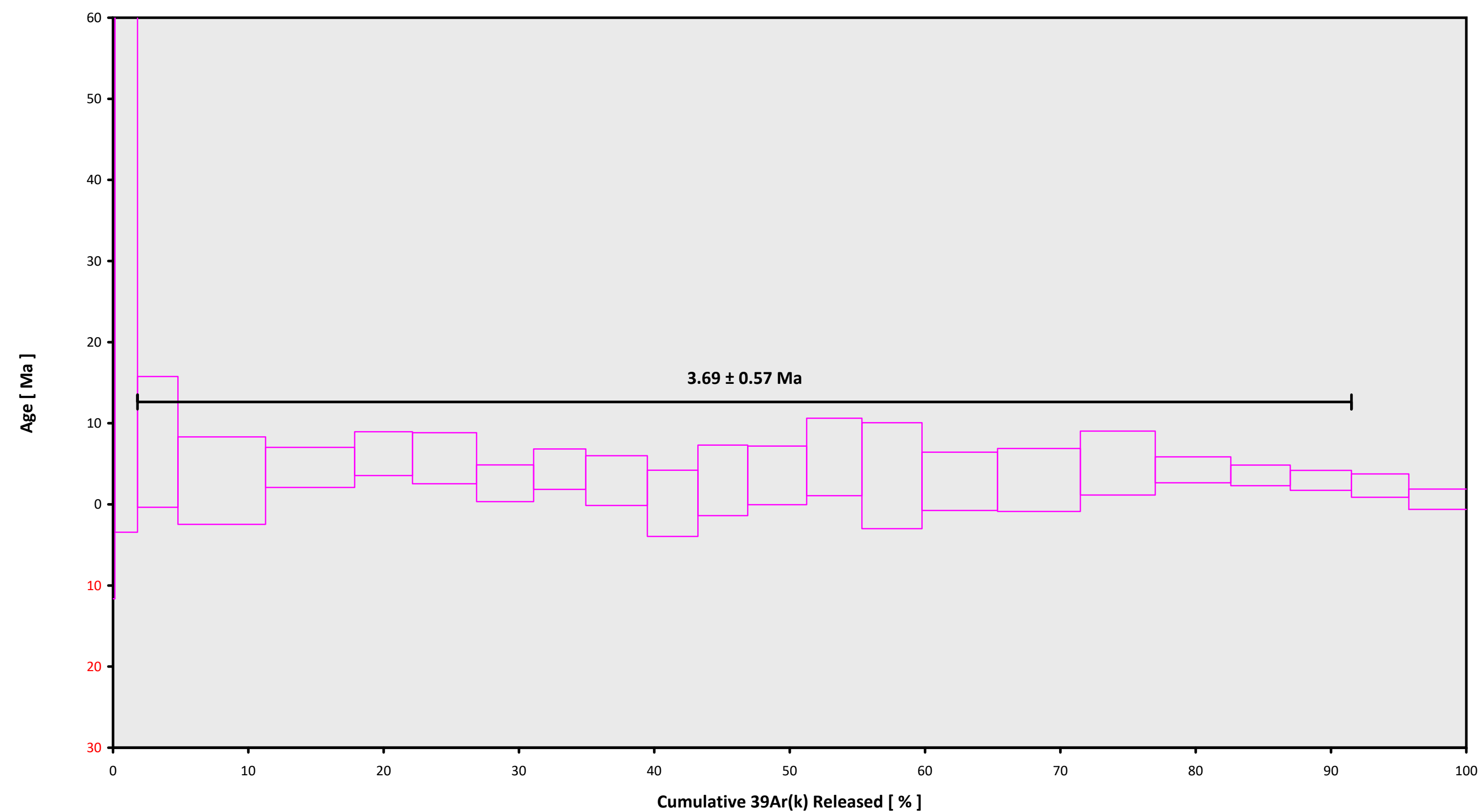
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
20F29013	0.5 %	0.1118977 ± 0.0004873	0.6054	EXP 150 of 150	0.1087770 ± 0.0059296	0.0038	EXP 150 of 150	0.0128235 ± 0.0068229	0.0001	EXP 150 of 150	0.0271303 ± 0.0065419	0.3147	EXP 150 of 150	35.5945685 ± 0.0160447	0.9696	EXP 150 of 150
20F29015	1.5 %	1.3199159 ± 0.0016760	0.9843	EXP 150 of 150	3.1219514 ± 0.0061453	0.9655	EXP 149 of 150	0.3331344 ± 0.0080384	0.1873	EXP 150 of 150	0.2269328 ± 0.0063011	0.8485	EXP 150 of 150	419.4244636 ± 0.0322765	0.9999	EXP 150 of 150
20F29016	2.0 %	0.4523136 ± 0.0009835	0.9402	EXP 150 of 150	5.1274497 ± 0.0060996	0.9875	EXP 148 of 150	0.1281518 ± 0.0079162	0.0217	EXP 150 of 150	0.4005919 ± 0.0059753	0.6372	EXP 148 of 150	143.0719416 ± 0.0223901	0.9994	EXP 150 of 150
20F29018	2.5 %	0.6975870 ± 0.0012549	0.9657	EXP 150 of 150	9.3336202 ± 0.0072476	0.9946	EXP 150 of 150	0.1868121 ± 0.0068168	0.0912	EXP 150 of 150	0.8538432 ± 0.0069491	0.2075	EXP 150 of 150	220.0099347 ± 0.0255147	0.9998	EXP 148 of 150
20F29019	3.0 %	0.2647251 ± 0.0007807	0.8856	EXP 148 of 150	9.2116123 ± 0.0067450	0.9952	EXP 150 of 150	0.0645083 ± 0.0072743	0.0007	EXP 150 of 150	0.8698503 ± 0.0056105	0.0422	EXP 146 of 150	83.4395347 ± 0.0203256	0.9980	EXP 149 of 150
20F29021	3.5 %	0.1551773 ± 0.0006072	0.7249	EXP 150 of 150	5.9344505 ± 0.0062117	0.9897	EXP 150 of 150	0.0410520 ± 0.0072128	0.0057	EXP 150 of 150	0.5698154 ± 0.0068108	0.0004	EXP 150 of 150	49.0886088 ± 0.0171491	0.9900	EXP 150 of 150
20F29022	4.0 %	0.2394393 ± 0.0007196	0.8802	EXP 150 of 150	6.6847854 ± 0.0067647	0.9906	EXP 149 of 150	0.0571097 ± 0.0075677	0.0119	EXP 150 of 150	0.6332792 ± 0.0064013	0.0067	EXP 149 of 150	75.6939184 ± 0.0194091	0.9978	EXP 150 of 150
20F29024	4.5 %	0.1228866 ± 0.0005027	0.6639	EXP 150 of 150	5.7318102 ± 0.0063813	0.9890	EXP 146 of 150	0.0374562 ± 0.0072194	0.0106	EXP 150 of 150	0.5647486 ± 0.0065329	0.0008	EXP 150 of 150	38.2572252 ± 0.0167420	0.9479	EXP 150 of 150
20F29025	5.0 %	0.1106076 ± 0.0005277	0.4994	EXP 150 of 150	5.0679790 ± 0.0063842	0.9854	EXP 149 of 150	0.0185405 ± 0.0076119	0.0014	EXP 150 of 150	0.5181971 ± 0.0058483	0.0038	EXP 150 of 150	34.7107886 ± 0.0166380	0.8904	EXP 150 of 150
20F29027	5.7 %	0.2066143 ± 0.0007088	0.8164	EXP 150 of 150	5.7881818 ± 0.0064170	0.9889	EXP 149 of 150	0.0600808 ± 0.0076678	0.0155	EXP 150 of 150	0.6074766 ± 0.0058843	0.0176	EXP 150 of 150	64.8702954 ± 0.0186535	0.9962	EXP 149 of 150
20F29028	6.3 %	0.2462977 ± 0.0007274	0.8439	EXP 150 of 150	4.8397027 ± 0.0069723	0.9811	EXP 150 of 150	0.0831472 ± 0.0074089	0.0119	EXP 150 of 150	0.5033095 ± 0.0058714	0.4139	EXP 150 of 150	77.0220745 ± 0.0174392	0.9966	EXP 150 of 150
20F29030	7.0 %	0.2585155 ± 0.0007660	0.8743	EXP 150 of 150	5.2217535 ± 0.0057642	0.9889	EXP 149 of 150	0.0659636 ± 0.0077592	0.0078	EXP 150 of 150	0.4944890 ± 0.0060071	0.1517	EXP 150 of 150	81.2606388 ± 0.0212858	0.9978	EXP 150 of 150
20F29031	7.8 %	0.2535765 ± 0.0007549	0.8816	EXP 150 of 150	6.5947153 ± 0.0071201	0.9898	EXP 150 of 150	0.0621763 ± 0.0082877	0.0054	EXP 150 of 150	0.5829431 ± 0.0059553	0.0006	EXP 147 of 150	79.6935297 ± 0.0191646	0.9982	EXP 150 of 150
20F29033	8.6 %	0.3361568 ± 0.0008847	0.9200	EXP 149 of 150	6.3872200 ± 0.0064002	0.9910	EXP 150 of 150	0.0806143 ± 0.0075689	0.0110	EXP 150 of 150	0.5454155 ± 0.0056202	0.0829	EXP 150 of 150	106.1918979 ± 0.0202408	0.9992	EXP 150 of 150
20F29034	9.6 %	0.5682483 ± 0.0010938	0.9630	EXP 150 of 150	7.5790236 ± 0.0061690	0.9942	EXP 150 of 150	0.1276261 ± 0.0073807	0.0274	EXP 150 of 150	0.5921423 ± 0.0065125	0.1625	EXP 149 of 150	179.1590654 ± 0.0218325	0.9998	EXP 149 of 150
20F29036	10.6 %	0.3653370 ± 0.0008508	0.9368	EXP 150 of 150	10.0400662 ± 0.0073174	0.9952	EXP 148 of 150	0.0806713 ± 0.0071065	0.0090	EXP 149 of 150	0.7399197 ± 0.0061747	0.0030	EXP 149 of 150	114.5451915 ± 0.0200363	0.9994	EXP 149 of 150
20F29037	11.7 %	0.4224854 ± 0.0010499	0.9328	EXP 150 of 150	10.9089981 ± 0.0075910	0.9955	EXP 150 of 150	0.0939561 ± 0.0076032	0.0203	EXP 148 of 150	0.8092292 ± 0.0060039	0.0071	EXP 149 of 150	132.6160272 ± 0.0205225	0.9996	EXP 146 of 150
20F29039	12.7 %	0.4007544 ± 0.0009165	0.9385	EXP 149 of 150	10.7368166 ± 0.0066147	0.9967	EXP 148 of 150	0.1023455 ± 0.0070942	0.0728	EXP 148 of 150	0.7312514 ± 0.0063041	0.0008	EXP 150 of 150	126.1593601 ± 0.0206301	0.9995	EXP 148 of 150
20F29040	13.7 %	0.1028449 ± 0.0004919	0.4758	EXP 150 of 150	11.1624264 ± 0.0065420	0.9970	EXP 149 of 150	0.0337756 ± 0.0065480	0.0196	EXP 149 of 150	0.7386159 ± 0.0059838	0.1024	EXP 149 of 150	31.5847271 ± 0.0157518	0.2746	EXP 149 of 150
20F29042	14.5 %	0.0443290 ± 0.0002887	0.2093	EXP 150 of 150	9.0157467 ± 0.0069598	0.9946	EXP 150 of 150	0.0089792 ± 0.0074496	0.0001	EXP 150 of 150	0.5814269 ± 0.0063212	0.0317	EXP 150 of 150	13.0408580 ± 0.0169741	0.9853	EXP 150 of 150
20F29043	15.7 %	0.0398130 ± 0.0002929	0.3551	EXP 150 of 150	9.9481080 ± 0.0068672	0.9955	EXP 150 of 150	0.0106081 ± 0.0074251	0.0046	EXP 150 of 150	0.5977315 ± 0.0057064	0.0645	EXP 150 of 150	11.4165581 ± 0.0159117	0.9902	EXP 150 of 150
20F29045	16.7 %	0.0428627 ± 0.0003346	0.1955	EXP 150 of 150	8.9195017 ± 0.0060173	0.9959	EXP 148 of 150	0.0060799 ± 0.0077637	0.0008	EXP 150 of 150	0.5621285 ± 0.0065437	0.0418	EXP 150 of 150	12.4932298 ± 0.0158239	0.9881	EXP 148 of 150
20F29046	18.0 %	0.0330304 ± 0.0002790	0.4148	EXP 148 of 150	8.8464365 ± 0.0069220	0.9947	EXP 146 of 150	0.0032713 ± 0.0077292	0.0002	EXP 148 of 150	0.5635001 ± 0.0059679	0.0434	EXP 148 of 150	9.1678567 ± 0.0164395	0.9915	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F29013	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29015	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29016	2.0 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29018	2.5 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29019	3.0 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29021	3.5 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29022	4.0 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29024	4.5 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29025	5.0 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29027	5.7 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29028	6.3 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29030	7.0 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29031	7.8 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29033	8.6 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29034	9.6 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29036	10.6 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29037	11.7 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29039	12.7 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29040	13.7 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29042	14.5 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29043	15.7 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29045	16.7 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01
20F29046	18.0 %	Dan Miggins	20-OSU-04	0.00	0.00	16.31	Oregon\McCloughry (19-20)	20F29009	01

Sample Parameters		Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air	%1σ	MDF	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
													40Ar/36Ar		(lin)									
20F29013	0.5 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	4	10	1
20F29015	1.5 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	4	27	1
20F29016	2.0 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	4	36	1
20F29018	2.5 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	4	53	1
20F29019	3.0 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	5	2	1
20F29021	3.5 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	5	19	1
20F29022	4.0 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	5	27	1
20F29024	4.5 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	5	45	1
20F29025	5.0 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	5	53	1
20F29027	5.7 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	6	11	1
20F29028	6.3 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	6	19	1
20F29030	7.0 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	6	36	1
20F29031	7.8 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	6	45	1
20F29033	8.6 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	7	2	1
20F29034	9.6 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	7	11	1
20F29036	10.6 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	7	28	1
20F29037	11.7 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	7	37	1
20F29039	12.7 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	7	54	1
20F29040	13.7 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	8	3	1
20F29042	14.5 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	8	20	1
20F29043	15.7 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	8	28	1
20F29045	16.7 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	8	46	1
20F29046	18.0 %	108 BRHC 19	Plagioclase	Burns Butte	FCT-NM (4B13-20)	28.201	0.082	Kuiper et al (2008)	9.35866	0.048	0.00165894	0.048	297.645	0.145	1.0007695	0.045	1	3.54E-14	28	OCT	2020	8	54	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
20F29013	0.5 %	299.83	0.219	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
20F29015	1.5 %	299.83	0.219	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
20F29016	2.0 %	299.83	0.219	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
20F29018	2.5 %	299.83	0.219	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
20F29019	3.0 %	299.83	0.219	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
20F29021	3.5 %	299.83	0.219	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
20F29022	4.0 %	299.83	0.219	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
20F29024	4.5 %	299.83	0.219	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
20F29025	5.0 %	299.83	0.219	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
20F29027	5.7 %	299.83	0.219	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
20F29028	6.3 %	299.83	0.219	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
20F29030	7.0 %	299.83	0.219	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
20F29031	7.8 %	299.83	0.219	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
20F29033	8.6 %	299.83	0.219	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
20F29034	9.6 %	299.83	0.219	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
20F29036	10.6 %	299.83	0.219	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
20F29037	11.7 %	299.83	0.219	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
20F29039	12.7 %	299.83	0.219	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
20F29040	13.7 %	299.83	0.219	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
20F29042	14.5 %	299.83	0.219	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
20F29043	15.7 %	299.83	0.219	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
20F29045	16.7 %	299.83	0.219	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
20F29046	18.0 %	299.83	0.219	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

20F29009.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.69 ± 0.57

TOTAL FUSION

4.30 ± 1.01

NORMAL ISOCHRON

3.49 ± 0.83

INVERSE ISOCHRON

3.51 ± 0.75

MSWD (PROBABILITY)

0.84 (66%)

Sample Info

Plagioclase

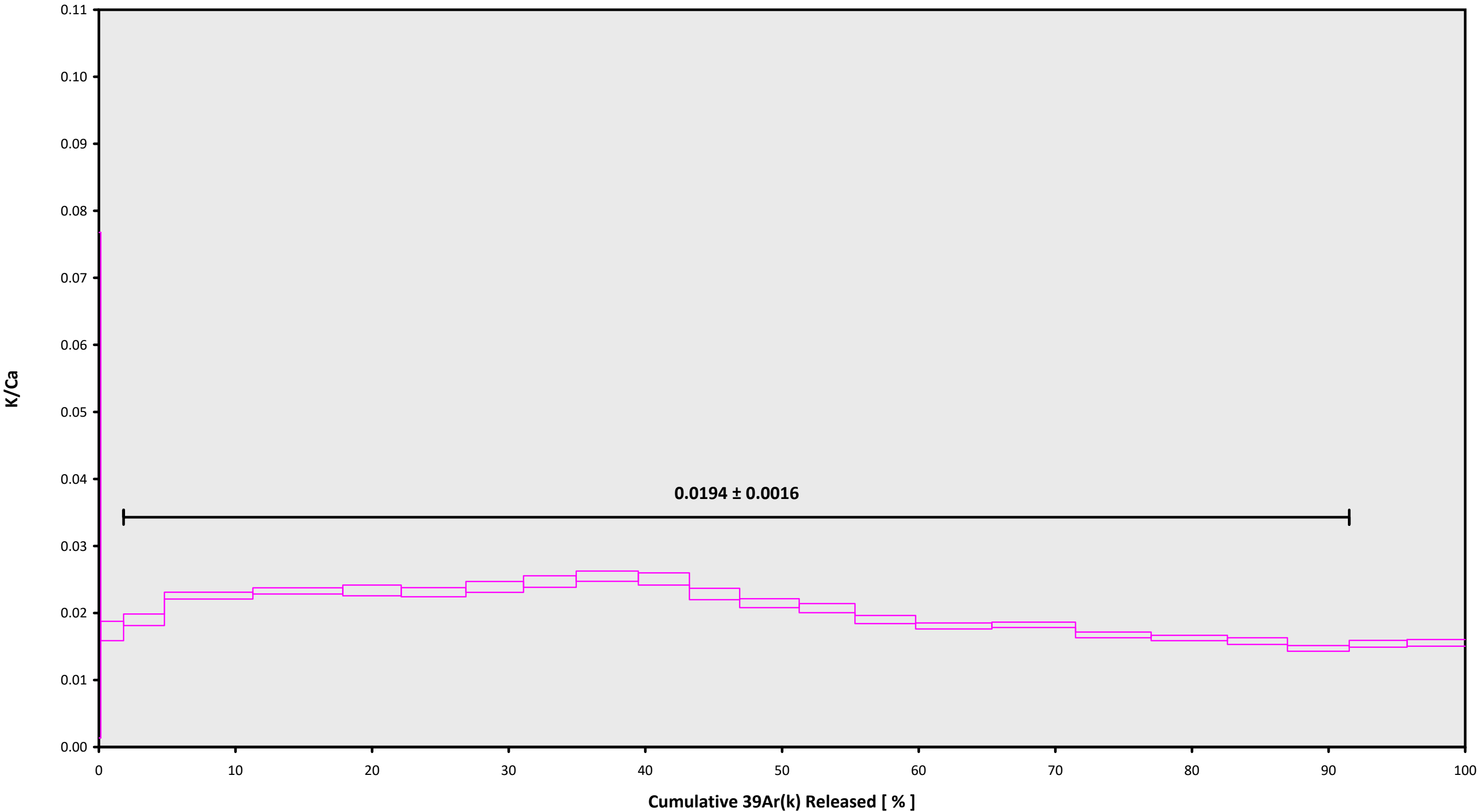
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B13-20)

J = 0.00165894 ± 0.00000080

20F29009.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.69 \pm 0.57

TOTAL FUSION

4.30 \pm 1.01

NORMAL ISOCHRON

3.49 \pm 0.83

INVERSE ISOCHRON

3.51 \pm 0.75

Sample Info

Plagioclase

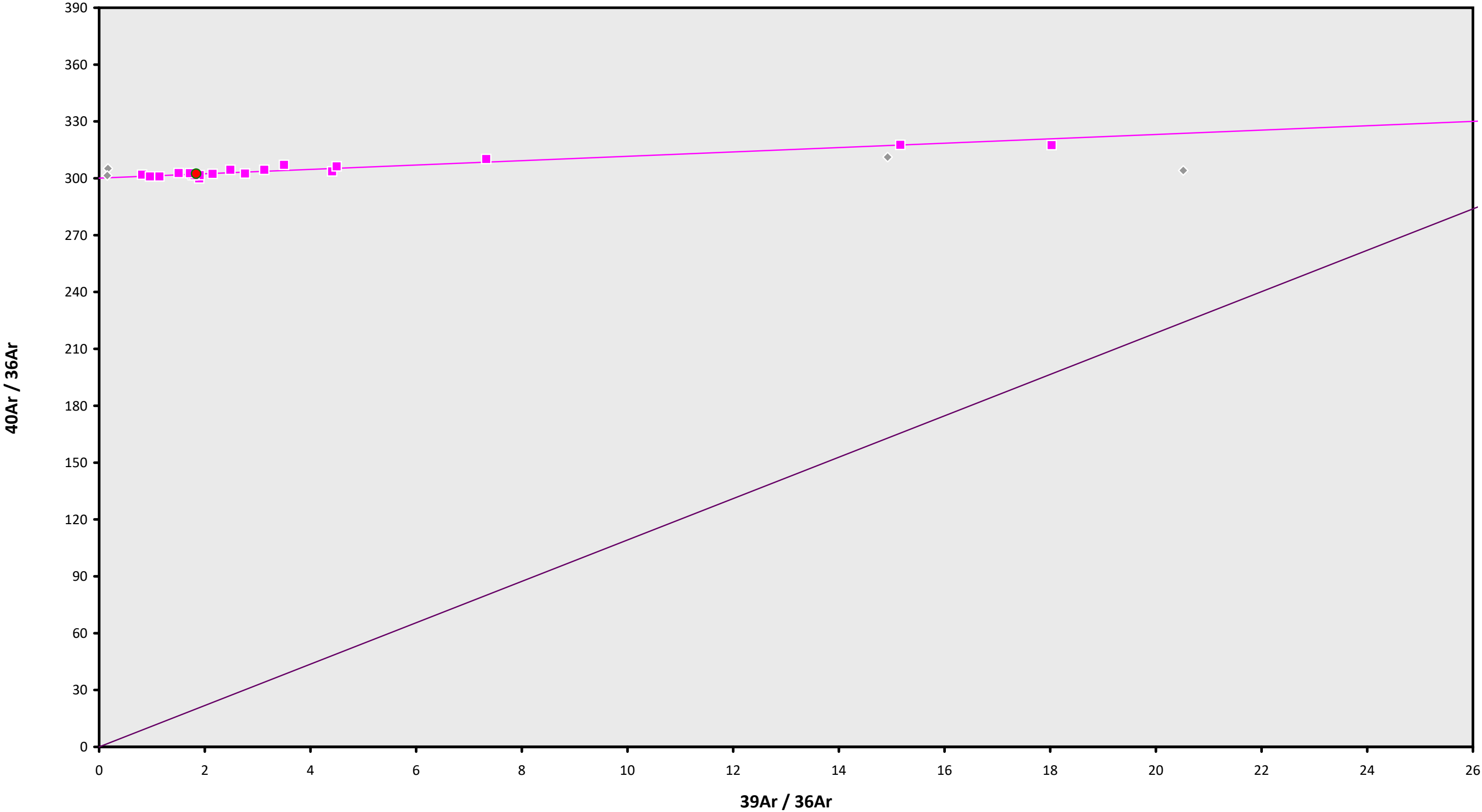
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B13-20)

J = 0.00165894 \pm 0.00000080

20F29009.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.69 ± 0.57

TOTAL FUSION

4.30 ± 1.01

NORMAL ISOCHRON

3.49 ± 0.83

INVERSE ISOCHRON

3.51 ± 0.75

MSWD (PROBABILITY)

1.12 (33%)

40AR/36AR INTERCEPT

300.1 ± 0.8

Sample Info

Plagioclase

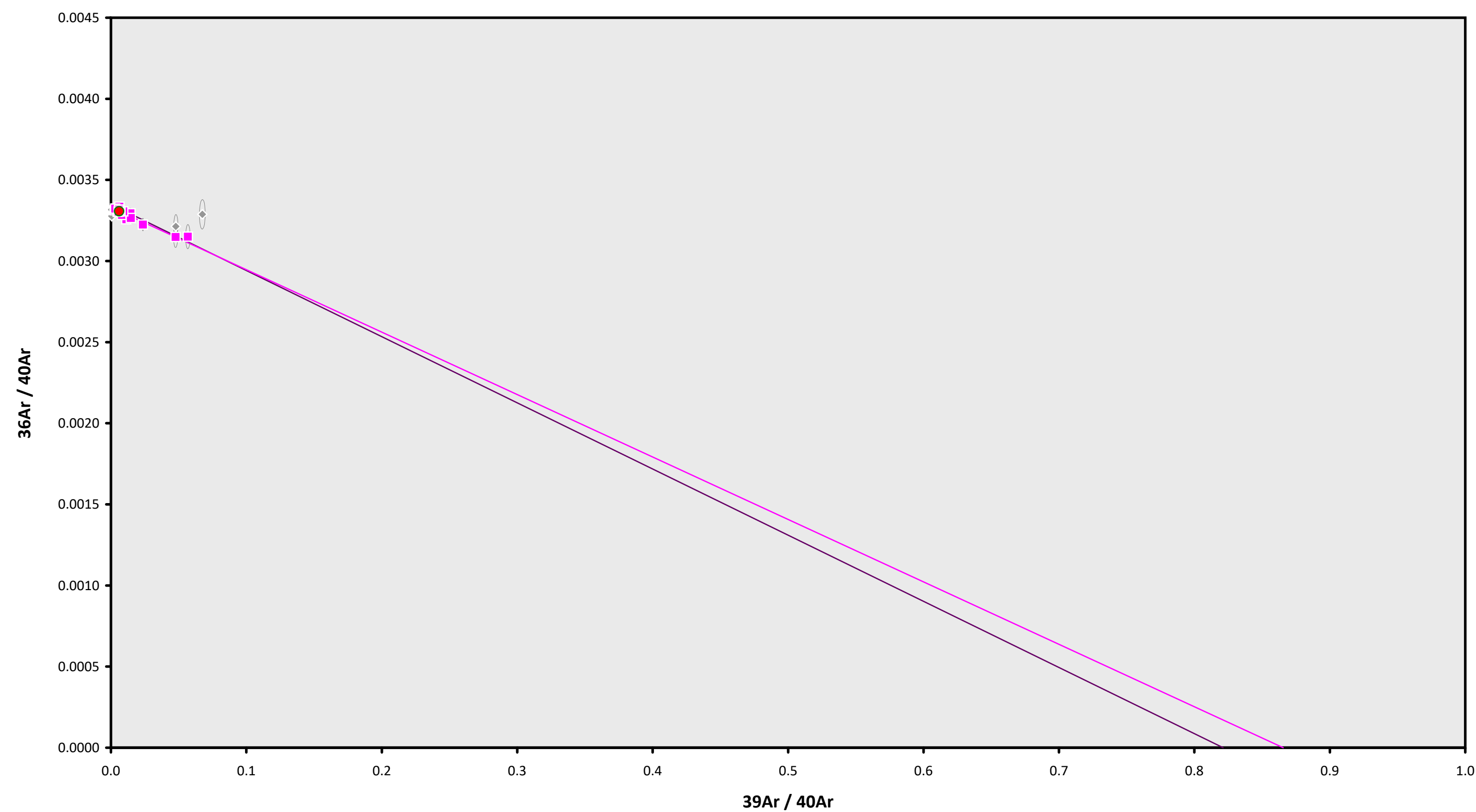
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B13-20)

J = $0.00165894 \pm 0.00000080$

20F29009.AGE >>> 108 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
 3.69 ± 0.57

TOTAL FUSION
 4.30 ± 1.01

NORMAL ISOCHRON
 3.49 ± 0.83

INVERSE ISOCHRON
 3.51 ± 0.75

MSWD (PROBABILITY)
 1.12 (33%)

SPREADING FACTOR
6.2%

40AR/36AR INTERCEPT
 300.1 ± 0.8

Sample Info

Plagioclase
Burns Butte
Dan Miggins

IRR = 20-OSU-04 (4B13-20)
 $J = 0.00165894 \pm 0.00000080$