

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
20F28504	0.5 %	1.180767	0.210	0.755916	1.709	0.518542	1.950	17.9126	0.075	366.992	0.028	0.81025 ± 0.09299	2.46 ± 0.28	3.95	0.84	10.2 ± 0.3
20F28506	0.7 %	1.459033	0.195	1.841325	0.684	0.959191	1.043	40.8823	0.050	471.345	0.022	0.87723 ± 0.04729	2.67 ± 0.14	7.61	1.91	9.5 ± 0.1
20F28507	0.9 %	0.785909	0.243	0.979067	1.278	0.508429	2.109	21.7012	0.068	256.458	0.040	1.00848 ± 0.05794	3.06 ± 0.18	8.53	1.01	9.5 ± 0.2
20F28509	1.1 %	0.674578	0.247	1.047205	1.153	0.515145	2.032	23.8971	0.062	231.448	0.044	1.26033 ± 0.04599	3.83 ± 0.14	13.01	1.11	9.8 ± 0.2
20F28510	1.3 %	0.395961	0.310	0.573013	2.284	0.293523	3.793	13.2591	0.093	138.598	0.073	1.54000 ± 0.06030	4.68 ± 0.18	14.73	0.62	9.9 ± 0.5
20F28512	1.5 %	0.761947	0.247	2.365292	0.550	1.041319	0.999	58.4515	0.046	336.506	0.030	1.86787 ± 0.02118	5.67 ± 0.06	32.44	2.73	10.6 ± 0.1
20F28513	1.8 %	0.494734	0.284	2.415633	0.556	1.036116	1.035	65.6578	0.045	299.780	0.034	2.31857 ± 0.01409	7.04 ± 0.04	50.78	3.06	11.7 ± 0.1
20F28514	2.2 %	0.381208	0.323	3.170471	0.417	1.378360	0.746	96.7651	0.042	371.147	0.027	2.66147 ± 0.00855	8.08 ± 0.03	69.39	4.51	13.1 ± 0.1
20F28516	2.6 %	0.213434	0.451	2.193479	0.557	0.965374	1.084	73.0092	0.043	272.197	0.037	2.85733 ± 0.00889	8.67 ± 0.03	76.64	3.40	14.3 ± 0.2
20F28517	3.1 %	0.183946	0.480	2.216509	0.618	0.984145	1.098	77.9846	0.043	284.604	0.036	2.94700 ± 0.00782	8.94 ± 0.02	80.75	3.64	15.1 ± 0.2
20F28518	3.6 %	0.218637	0.396	3.716710	0.376	1.634626	0.604	134.1963	0.041	471.485	0.022	3.02866 ± 0.00493	9.19 ± 0.01	86.20	6.26	15.5 ± 0.1
20F28520	4.1 %	0.147804	0.556	3.382421	0.415	1.456137	0.722	123.5596	0.041	416.763	0.025	3.01748 ± 0.00503	9.15 ± 0.02	89.46	5.76	15.7 ± 0.1
20F28521	4.7 %	0.136382	0.572	3.362511	0.415	1.476569	0.723	125.0143	0.041	415.966	0.025	3.00325 ± 0.00481	9.11 ± 0.01	90.26	5.83	16.0 ± 0.1
20F28522	5.3 %	0.184178	0.472	4.245842	0.340	1.817899	0.570	155.6739	0.041	518.678	0.020	2.98024 ± 0.00440	9.04 ± 0.01	89.45	7.26	15.8 ± 0.1
20F28524	6.0 %	0.238494	0.381	4.793057	0.312	2.002498	0.526	171.9749	0.040	575.561	0.018	2.93443 ± 0.00422	8.90 ± 0.01	87.68	8.02	15.4 ± 0.1
20F28525	6.8 %	0.280171	0.337	4.472901	0.306	1.826894	0.545	155.0018	0.040	532.479	0.020	2.89743 ± 0.00467	8.79 ± 0.01	84.34	7.23	14.9 ± 0.1
20F28526	7.5 %	0.491008	0.276	4.171323	0.341	1.663183	0.624	135.7700	0.041	533.636	0.019	2.85264 ± 0.00695	8.66 ± 0.02	72.58	6.33	14.0 ± 0.1
20F28528	8.3 %	0.864591	0.237	4.069579	0.346	1.561853	0.696	116.9253	0.042	589.914	0.018	2.83981 ± 0.01178	8.62 ± 0.04	56.29	5.45	12.4 ± 0.1
20F28529	8.6 %	✓0.771374	0.230	2.529594	0.520	0.997409	1.028	70.3375	0.043	426.289	0.024	2.78876 ± 0.01695	8.46 ± 0.05	46.01	3.28	12.0 ± 0.1
20F28530	9.0 %	✓1.057809	0.223	2.190827	0.579	0.900290	1.130	58.8610	0.046	479.832	0.022	2.78890 ± 0.02681	8.46 ± 0.08	34.21	2.74	11.6 ± 0.1
20F28532	9.5 %	✓1.126528	0.203	1.862812	0.713	0.799758	1.248	48.4286	0.047	470.453	0.022	2.77195 ± 0.03208	8.41 ± 0.10	28.53	2.26	11.2 ± 0.2
20F28533	10.0 %	✓1.312236	0.206	1.661544	0.789	0.784666	1.326	43.6960	0.048	513.908	0.020	2.79745 ± 0.04174	8.49 ± 0.13	23.79	2.04	11.3 ± 0.2
20F28534	10.5 %	✓1.652546	0.195	1.422838	0.892	0.783429	1.306	38.7219	0.051	600.166	0.017	2.76008 ± 0.05673	8.38 ± 0.17	17.81	1.81	11.7 ± 0.2
20F28536	11.0 %	✓1.644532	0.193	1.373123	0.965	0.770698	1.226	36.1400	0.052	591.087	0.018	2.77219 ± 0.05985	8.41 ± 0.18	16.95	1.69	11.3 ± 0.2
20F28537	11.5 %	✓1.642789	0.195	1.260412	1.053	0.735249	1.388	34.4043	0.054	587.841	0.018	2.83259 ± 0.06339	8.60 ± 0.19	16.58	1.60	11.7 ± 0.2
20F28538	12.1 %	✓1.997784	0.187	1.266464	1.001	0.854422	1.250	36.8178	0.052	701.074	0.015	2.84368 ± 0.06973	8.63 ± 0.21	14.93	1.72	12.5 ± 0.3
20F28540	12.7 %	✓2.831572	0.181	1.438963	0.917	1.100735	0.932	45.4152	0.047	971.418	0.011	2.77694 ± 0.07794	8.43 ± 0.24	12.98	2.12	13.6 ± 0.2
20F28541	13.3 %	✓2.370821	0.182	1.129477	1.201	0.911419	1.151	36.3357	0.051	809.186	0.013	2.79134 ± 0.08204	8.47 ± 0.25	12.53	1.69	13.8 ± 0.3
20F28542	13.9 %	✓3.063675	0.180	1.284944	0.977	1.094779	0.917	41.1496	0.048	1026.994	0.011	2.73112 ± 0.09257	8.29 ± 0.28	10.94	1.92	13.8 ± 0.3
20F28544	14.6 %	✓3.650836	0.173	1.430586	0.926	1.295355	0.852	46.7393	0.047	1223.717	0.009	2.86297 ± 0.09422	8.69 ± 0.29	10.93	2.18	14.0 ± 0.3
Σ		32.215284	0.046	68.623838	0.106	32.668012	0.174	2144.6834	0.009	15485.521	0.004					

Information on Analysis and Constants Used in Calculations	Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 148 BRHC 19 Material = Groundmass Location = Burns Butte Region = Harney Basin Analyst = Dan Miggins Irradiation = 20-OSU-04 (484-20) Position = X: 0 Y: 0 Z/H: 4.69936 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 9.34384 ± 0.00449 FCT-NM J-value = 0.00166158 ± 0.00000080 Air Shot 40Ar/36Ar = 297.9410 ± 0.3426 Air Shot MDF = 1.00052007 ± 0.00038894 (LIN) Experiment Type = Incremental Heating Extraction Method = Bulk Laser Heating Heating = 64 sec Isolation = 6.12 min Instrument = ARGUS-VI-F Preferred Age = Mini Plateau Age Classification = Crystallization Age IGSN = Undefined Rock Class = Undefined Lithology = Undefined Lat-Lon = Undefined - Undefined	Age Plateau		2.78846 ± 0.01124 ± 0.40%	8.46 ± 0.03 ± 0.41% Full External Error ± 0.44 Analytical Error ± 0.03	1.01 43%	25.04 12	12.0 ± 0.5
	Total Fusion Age		2.73779 ± 0.00478 ± 0.17%	8.31 ± 0.02 ± 0.20% Full External Error ± 0.43 Analytical Error ± 0.01		30	13.4 ± 0.0
	Normal Isochron	298.75 ± 0.68 ± 0.23%	2.78391 ± 0.02046 ± 0.73%	8.45 ± 0.06 ± 0.74% Full External Error ± 0.44 Analytical Error ± 0.06	1.41 17%	25.04 12	
					1.89 1.1869	2σ Confidence Limit Error Magnification	
					6	Number of Iterations	
					0.0000182437	Convergence	
	Inverse Isochron	298.75 ± 0.68 ± 0.23%	2.78382 ± 0.02045 ± 0.73%	8.45 ± 0.06 ± 0.74% Full External Error ± 0.44 Analytical Error ± 0.06	1.41 17%	25.04 12	
					1.89 1.1873	2σ Confidence Limit Error Magnification	
					2	Number of Iterations	
					0.0000230626	Convergence	
					35%	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
20F28504	0.5 %	1.180560	0.755916	0.0795454	17.9121	14.5133	2.46 ± 0.28	3.95	0.84	10.2 ± 0.3
20F28506	0.7 %	1.458528	1.841325	0.1902059	40.8811	35.8623	2.67 ± 0.14	7.61	1.91	9.5 ± 0.1
20F28507	0.9 %	0.785640	0.979067	0.0980821	21.7006	21.8845	3.06 ± 0.18	8.53	1.01	9.5 ± 0.2
20F28509	1.1 %	0.674291	1.047205	0.0992557	23.8965	30.1175	3.83 ± 0.14	13.01	1.11	9.8 ± 0.2
20F28510	1.3 %	0.395804	0.573013	0.0586851	13.2587	20.4184	4.68 ± 0.18	14.73	0.62	9.9 ± 0.5
20F28512	1.5 %	0.761300	2.365292	0.1914875	58.4500	109.1771	5.67 ± 0.06	32.44	2.73	10.6 ± 0.1
20F28513	1.8 %	0.494076	2.415633	0.1496168	65.6563	152.2284	7.04 ± 0.04	50.78	3.06	11.7 ± 0.1
20F28514	2.2 %	0.380346	3.170471	0.1374858	96.7631	257.5318	8.08 ± 0.03	69.39	4.51	13.1 ± 0.1
20F28516	2.6 %	0.212839	2.193479	0.0431439	73.0078	208.6072	8.67 ± 0.03	76.64	3.40	14.3 ± 0.2
20F28517	3.1 %	0.183347	2.216509	0.0073825	77.9831	229.8162	8.94 ± 0.02	80.75	3.64	15.1 ± 0.2
20F28518	3.6 %	0.217633	3.716710	0.0000000	134.1940	406.4275	9.19 ± 0.01	86.20	6.26	15.5 ± 0.1
20F28520	4.1 %	0.146890	3.382421	0.0000000	123.5574	372.8322	9.15 ± 0.02	89.46	5.76	15.7 ± 0.1
20F28521	4.7 %	0.135473	3.362511	0.0000000	125.0122	375.4430	9.11 ± 0.01	90.26	5.83	16.0 ± 0.1
20F28522	5.3 %	0.183031	4.245842	0.0000000	155.6712	463.9377	9.04 ± 0.01	89.45	7.26	15.8 ± 0.1
20F28524	6.0 %	0.237199	4.793057	0.0000000	171.9718	504.6387	8.90 ± 0.01	87.68	8.02	15.4 ± 0.1
20F28525	6.8 %	0.278962	4.472901	0.0000000	154.9989	449.0983	8.79 ± 0.01	84.34	7.23	14.9 ± 0.1
20F28526	7.5 %	0.489880	4.171323	0.0000000	135.7673	387.2952	8.66 ± 0.02	72.58	6.33	14.0 ± 0.1
20F28528	8.3 %	0.863491	4.069579	0.0000000	116.9227	332.0386	8.62 ± 0.04	56.29	5.45	12.4 ± 0.1
20F28529	8.6 %	✓ 0.770690	2.529594	0.0022327	70.3359	196.1495	8.46 ± 0.05	46.01	3.28	12.0 ± 0.1
20F28530	9.0 %	✓ 1.057217	2.190827	0.0000000	58.8595	164.1534	8.46 ± 0.08	34.21	2.74	11.6 ± 0.1
20F28532	9.5 %	✓ 1.126024	1.862812	0.0023091	48.4274	134.2382	8.41 ± 0.10	28.53	2.26	11.2 ± 0.2
20F28533	10.0 %	✓ 1.311786	1.661544	0.0093916	43.6949	122.2341	8.49 ± 0.13	23.79	2.04	11.3 ± 0.2
20F28534	10.5 %	✓ 1.652161	1.422838	0.0041072	38.7210	106.8731	8.38 ± 0.17	17.81	1.81	11.7 ± 0.2
20F28536	11.0 %	✓ 1.644160	1.373123	0.0240749	36.1391	100.1845	8.41 ± 0.18	16.95	1.69	11.3 ± 0.2
20F28537	11.5 %	✓ 1.642448	1.260412	0.0099301	34.4034	97.4508	8.60 ± 0.19	16.58	1.60	11.7 ± 0.2
20F28538	12.1 %	✓ 1.997440	1.266464	0.0330380	36.8170	104.6957	8.63 ± 0.21	14.93	1.72	12.5 ± 0.3
20F28540	12.7 %	✓ 2.831183	1.438963	0.0183292	45.4143	126.1126	8.43 ± 0.24	12.98	2.12	13.6 ± 0.2
20F28541	13.3 %	✓ 2.370515	1.129477	0.0255566	36.3349	101.4231	8.47 ± 0.25	12.53	1.69	13.8 ± 0.3
20F28542	13.9 %	✓ 3.063327	1.284944	0.0201572	41.1488	112.3820	8.29 ± 0.28	10.94	1.92	13.8 ± 0.3
20F28544	14.6 %	✓ 3.650448	1.430586	0.0425288	46.7384	133.8107	8.69 ± 0.29	10.93	2.18	14.0 ± 0.3
Σ		32.196688	68.623838	1.2465461	2144.6393	5871.5757				

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 = 148 BRHC 19 Material = Groundmass Location = Burns Butte Region = Harney Basin Analyst = Dan Miggins Irradiation = 20-OSU-04 (484-20) J = 0.00166158 ± 0.00000080 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	2.78846 ± 0.01124 ± 0.40%	8.46 ± 0.03 ± 0.41% Full External Error ± 0.44 Analytical Error ± 0.03	1.01 43% 1.85 2σ Confidence Limit 1.0055 Error Magnification	25.04 12	12.0 ± 0.5
	Total Fusion Age	2.73779 ± 0.00478 ± 0.17%	8.31 ± 0.02 ± 0.20% Full External Error ± 0.43 Analytical Error ± 0.01		30	13.4 ± 0.0

Normal Isochron		39(k)/36(a) ± 2σ		40(a+r)/36(a) ± 2σ	r.i.
20F28504	0.5 %		15.17 ± 0.07	310.85 ± 1.32	0.9332
20F28506	0.7 %		28.03 ± 0.11	323.15 ± 1.27	0.9629
20F28507	0.9 %		27.62 ± 0.14	326.42 ± 1.61	0.9508
20F28509	1.1 %		35.44 ± 0.18	343.23 ± 1.72	0.9550
20F28510	1.3 %		33.50 ± 0.22	350.15 ± 2.23	0.9324
20F28512	1.5 %		76.78 ± 0.39	441.97 ± 2.20	0.9758
20F28513	1.8 %		132.89 ± 0.76	606.67 ± 3.47	0.9805
20F28514	2.2 %		254.41 ± 1.66	975.66 ± 6.34	0.9883
20F28516	2.6 %		343.02 ± 3.11	1278.68 ± 11.60	0.9921
20F28517	3.1 %		425.33 ± 4.12	1552.01 ± 15.00	0.9933
20F28518	3.6 %		616.61 ± 4.93	2166.05 ± 17.26	0.9933
20F28520	4.1 %		841.16 ± 9.44	2836.74 ± 31.79	0.9963
20F28521	4.7 %		922.78 ± 10.65	3069.90 ± 35.36	0.9965
20F28522	5.3 %		850.52 ± 8.10	2833.31 ± 26.92	0.9955
20F28524	6.0 %		725.01 ± 5.59	2426.05 ± 18.61	0.9934
20F28525	6.8 %		555.63 ± 3.79	1908.45 ± 12.95	0.9913
20F28526	7.5 %		277.14 ± 1.55	1089.15 ± 6.03	0.9867
20F28528	8.3 %		135.41 ± 0.65	683.09 ± 3.24	0.9822
20F28529	8.6 %	✓	91.26 ± 0.43	553.07 ± 2.56	0.9774
20F28530	9.0 %	✓	55.67 ± 0.25	453.83 ± 2.04	0.9750
20F28532	9.5 %	✓	43.01 ± 0.18	417.77 ± 1.71	0.9683
20F28533	10.0 %	✓	33.31 ± 0.14	391.74 ± 1.62	0.9691
20F28534	10.5 %	✓	23.44 ± 0.09	363.25 ± 1.43	0.9643
20F28536	11.0 %	✓	21.98 ± 0.09	359.49 ± 1.39	0.9608
20F28537	11.5 %	✓	20.95 ± 0.08	357.89 ± 1.40	0.9604
20F28538	12.1 %	✓	18.43 ± 0.07	350.97 ± 1.32	0.9601
20F28540	12.7 %	✓	16.04 ± 0.06	343.10 ± 1.25	0.9660
20F28541	13.3 %	✓	15.33 ± 0.06	341.35 ± 1.25	0.9601
20F28542	13.9 %	✓	13.43 ± 0.05	335.25 ± 1.21	0.9642
20F28544	14.6 %	✓	12.80 ± 0.05	335.22 ± 1.16	0.9639

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	298.75 ± 0.68 ± 0.23%	2.78391 ± 0.02046 ± 0.73%	8.45 ± 0.06 ± 0.74%	1.41 17%
			Full External Error ± 0.44	
			Analytical Error ± 0.06	
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	1.89 1.1869 12	Convergence Number of Iterations Calculated Line	0.000018243677 6 Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F28504	0.5 %		0.0488094 ± 0.0000784	0.00321695 ± 0.00001364	0.0460
20F28506	0.7 %		0.0867374 ± 0.0000942	0.00309456 ± 0.00001212	0.0443
20F28507	0.9 %		0.0846206 ± 0.0001327	0.00306358 ± 0.00001509	0.0810
20F28509	1.1 %		0.1032539 ± 0.0001568	0.00291354 ± 0.00001462	0.1010
20F28510	1.3 %		0.0956691 ± 0.0002262	0.00285594 ± 0.00001819	0.1398
20F28512	1.5 %		0.1737149 ± 0.0001912	0.00226260 ± 0.00001125	0.0665
20F28513	1.8 %		0.2190443 ± 0.0002481	0.00164835 ± 0.00000943	0.0707
20F28514	2.2 %		0.2607553 ± 0.0002602	0.00102495 ± 0.00000666	0.0459
20F28516	2.6 %		0.2682607 ± 0.0003055	0.00078206 ± 0.00000709	0.0537
20F28517	3.1 %		0.2740518 ± 0.0003062	0.00064433 ± 0.00000623	0.0478
20F28518	3.6 %		0.2846687 ± 0.0002641	0.00046167 ± 0.00000368	0.0258
20F28520	4.1 %		0.2965228 ± 0.0002853	0.00035252 ± 0.00000395	0.0226
20F28521	4.7 %		0.3005896 ± 0.0002885	0.00032574 ± 0.00000375	0.0220
20F28522	5.3 %		0.3001854 ± 0.0002724	0.00035294 ± 0.00000335	0.0191
20F28524	6.0 %		0.2988440 ± 0.0002649	0.00041219 ± 0.00000316	0.0196
20F28525	6.8 %		0.2911405 ± 0.0002616	0.00052399 ± 0.00000356	0.0256
20F28526	7.5 %		0.2544585 ± 0.0002313	0.00091815 ± 0.00000509	0.0299
20F28528	8.3 %		0.1982269 ± 0.0001790	0.00146394 ± 0.00000695	0.0294
20F28529	8.6 %	✓	0.1650121 ± 0.0001638	0.00180808 ± 0.00000837	0.0497
20F28530	9.0 %	✓	0.1226762 ± 0.0001246	0.00220347 ± 0.00000990	0.0412
20F28532	9.5 %	✓	0.1029442 ± 0.0001075	0.00239364 ± 0.00000978	0.0446
20F28533	10.0 %	✓	0.0850292 ± 0.0000888	0.00255270 ± 0.00001057	0.0370
20F28534	10.5 %	✓	0.0645196 ± 0.0000690	0.00275295 ± 0.00001080	0.0287
20F28536	11.0 %	✓	0.0611424 ± 0.0000678	0.00278169 ± 0.00001077	0.0297
20F28537	11.5 %	✓	0.0585272 ± 0.0000660	0.00279413 ± 0.00001095	0.0286
20F28538	12.1 %	✓	0.0525168 ± 0.0000571	0.00284921 ± 0.00001071	0.0212
20F28540	12.7 %	✓	0.0467519 ± 0.0000452	0.00291457 ± 0.00001058	0.0137
20F28541	13.3 %	✓	0.0449043 ± 0.0000476	0.00292958 ± 0.00001071	0.0172
20F28542	13.9 %	✓	0.0400682 ± 0.0000396	0.00298288 ± 0.00001075	0.0127
20F28544	14.6 %	✓	0.0381947 ± 0.0000364	0.00298315 ± 0.00001032	0.0100

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	298.75 ± 0.68 ± 0.23%	2.78382 ± 0.02045 ± 0.73%	8.45 ± 0.06 ± 0.74%	1.41 17%
			Full External Error ± 0.44	
			Analytical Error ± 0.06	
Statistics	2σ Confidence Limit	1.89	Convergence	0.0000230626
	Error Magnification	1.1873	Number of Iterations	2
	Number of Data Points	12	Calculated Line	Weighted York-2
	Spreading Factor	35.3%		

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
20F28504	0.5 %	1.180560	0.21	0.0000000	0.00	0.0002043	1.72	0.0000030	12.81	0.755916	1.71	0.2225355	0.26	0.0000000	0.00	0.216325	0.12	0.0001361	9.78	0.0795454	12.85	17.9121	0.08	0.0004857	1.94	14.5133	5.74	352.4679	0.23	0.0000000	0.00	0.0108727	9.65
20F28506	0.7 %	1.458528	0.19	0.0000000	0.00	0.0004977	0.71	0.0000071	5.43	1.841325	0.68	0.2749325	0.25	0.0000000	0.00	0.493721	0.10	0.0003314	9.65	0.1902059	5.51	40.8811	0.05	0.0011831	1.15	35.8623	2.69	435.4581	0.22	0.0000000	0.00	0.0248148	9.65
20F28507	0.9 %	0.785640	0.24	0.0000000	0.00	0.0002646	1.29	0.0000037	11.02	0.979067	1.28	0.1480932	0.29	0.0000000	0.00	0.262078	0.11	0.0001762	9.71	0.0980821	11.06	21.7006	0.07	0.0006291	1.58	21.8845	2.87	234.5608	0.26	0.0000000	0.00	0.0131722	9.65
20F28509	1.1 %	0.674291	0.25	0.0000000	0.00	0.0002831	1.17	0.0000037	10.64	1.047205	1.15	0.1271038	0.29	0.0000000	0.00	0.288597	0.11	0.0001885	9.70	0.0992557	10.68	23.8965	0.06	0.0006728	1.48	30.1175	1.82	201.3163	0.27	0.0000000	0.00	0.0145051	9.65
20F28510	1.3 %	0.395804	0.31	0.0000000	0.00	0.0001549	2.29	0.0000022	19.02	0.573013	2.28	0.0746090	0.35	0.0000000	0.00	0.160126	0.13	0.0001031	9.90	0.0586851	19.05	13.2587	0.09	0.0003682	2.46	20.4184	1.96	118.1712	0.33	0.0000000	0.00	0.0080481	9.65
20F28512	1.5 %	0.761300	0.25	0.0000000	0.00	0.0006393	0.58	0.0000072	5.62	2.365292	0.55	0.1435051	0.29	0.0000000	0.00	0.705901	0.10	0.0004258	9.65	0.1914875	5.70	58.4500	0.05	0.0015197	1.07	109.1771	0.57	227.2938	0.27	0.0000000	0.00	0.0354791	9.65
20F28513	1.8 %	0.494076	0.28	0.0000000	0.00	0.0006529	0.58	0.0000056	7.38	2.415633	0.56	0.0931333	0.33	0.0000000	0.00	0.792931	0.10	0.0004348	9.65	0.1496168	7.44	65.6563	0.05	0.0015520	1.08	152.2284	0.30	147.5113	0.30	0.0000000	0.00	0.0398533	9.65
20F28514	2.2 %	0.380346	0.32	0.0000000	0.00	0.0008570	0.45	0.0000051	7.87	3.170471	0.42	0.0716951	0.36	0.0000000	0.00	1.168608	0.10	0.0005707	9.64	0.1374858	7.92	96.7631	0.04	0.0020370	1.01	257.5318	0.16	113.5560	0.34	0.0000000	0.00	0.0587352	9.65
20F28516	2.6 %	0.212839	0.45	0.0000000	0.00	0.0005929	0.58	0.0000016	24.84	2.193479	0.56	0.0401202	0.48	0.0000000	0.00	0.881715	0.10	0.0003948	9.65	0.0431439	24.85	73.0078	0.04	0.0014093	1.08	208.6072	0.15	63.5453	0.46	0.0000000	0.00	0.0443157	9.65
20F28517	3.1 %	0.183347	0.48	0.0000000	0.00	0.0005991	0.64	0.0000003	149.89	2.216509	0.62	0.0345609	0.51	0.0000000	0.00	0.941802	0.10	0.0003990	9.65	0.0073825	149.89	77.9831	0.04	0.0014241	1.11	229.8162	0.13	54.7400	0.49	0.0000000	0.00	0.0473358	9.65
20F28518	3.6 %	0.217633	0.40	0.0000000	0.00	0.0010046	0.41	0.0000000	0.00	3.716710	0.38	0.0410237	0.43	0.0000000	0.00	1.620660	0.10	0.0006690	9.64	0.0000000	0.00	134.1940	0.04	0.0023880	0.99	406.4275	0.07	64.9764	0.41	0.0000000	0.00	0.0814557	9.65
20F28520	4.1 %	0.146890	0.56	0.0000000	0.00	0.0009143	0.45	0.0000000	0.00	3.382421	0.41	0.0276887	0.58	0.0000000	0.00	1.492203	0.10	0.0006088	9.64	0.0000000	0.00	123.5574	0.04	0.0021732	1.01	372.8322	0.07	43.8554	0.57	0.0000000	0.00	0.0749993	9.65
20F28521	4.7 %	0.135473	0.58	0.0000000	0.00	0.0009089	0.45	0.0000000	0.00	3.362511	0.42	0.0255367	0.60	0.0000000	0.00	1.509772	0.10	0.0006053	9.64	0.0000000	0.00	125.0122	0.04	0.0021604	1.01	375.4430	0.07	40.4469	0.58	0.0000000	0.00	0.0758824	9.65
20F28522	5.3 %	0.183031	0.47	0.0000000	0.00	0.0011477	0.38	0.0000000	0.00	4.245842	0.34	0.0345013	0.50	0.0000000	0.00	1.880041	0.10	0.0007643	9.64	0.0000000	0.00	155.6712	0.04	0.0027280	0.98	463.9377	0.06	54.6457	0.49	0.0000000	0.00	0.0944924	9.65
20F28524	6.0 %	0.237199	0.38	0.0000000	0.00	0.0012956	0.35	0.0000000	0.00	4.793057	0.31	0.0447119	0.41	0.0000000	0.00	2.076904	0.10	0.0008628	9.64	0.0000000	0.00	171.9718	0.04	0.0030795	0.97	504.6387	0.06	70.8180	0.40	0.0000000	0.00	0.1043869	9.65
20F28525	6.8 %	0.278962	0.34	0.0000000	0.00	0.0012090	0.35	0.0000000	0.00	4.472901	0.31	0.0525844	0.37	0.0000000	0.00	1.871921	0.10	0.0008051	9.63	0.0000000	0.00	154.9989	0.04	0.0028738	0.97	449.0983	0.07	83.2869	0.35	0.0000000	0.00	0.0940843	9.65
20F28526	7.5 %	0.489880	0.28	0.0000000	0.00	0.0011275	0.38	0.0000000	0.00	4.171323	0.34	0.0923424	0.32	0.0000000	0.00	1.639662	0.10	0.0007508	9.64	0.0000000	0.00	135.7673	0.04	0.0026801	0.98	387.2952	0.11	146.2586	0.30	0.0000000	0.00	0.0824107	9.65
20F28528	8.3 %	0.863491	0.24	0.0000000	0.00	0.0011000	0.39	0.0000000	0.00	4.069579	0.35	0.1627681	0.29	0.0000000	0.00	1.412075	0.10	0.0007325	9.64	0.0000000	0.00	116.9227	0.04	0.0026147	0.98	332.0386	0.20	257.8040	0.26	0.0000000	0.00	0.0709721	9.65
20F28529	8.6 %	✓ 0.770690	0.23	0.0000000	0.00	0.0006837	0.55	0.0000001	470.59	2.529594	0.52	0.1452751	0.28	0.0000000	0.00	0.849446	0.10	0.0004553	9.64	0.0022327	470.59	70.3359	0.04	0.0016253	1.06	196.1495	0.30	230.0972	0.25	0.0000000	0.00	0.0426939	9.65
20F28530	9.0 %	✓ 1.057217	0.22	0.0000000	0.00	0.0005922	0.60	0.0000000	0.00	2.190827	0.58	0.1992854	0.27	0.0000000	0.00	0.710847	0.10	0.0003943	9.65	0.0000000	0.00	58.8595	0.05	0.0014076	1.09	164.1534	0.48	315.6427	0.25	0.0000000	0.00	0.0357277	9.65
20F28532	9.5 %	✓ 1.126024	0.20	0.0000000	0.00	0.0005035	0.73	0.0000001	438.77	1.862812	0.71	0.2122556	0.26	0.0000000	0.00	0.584858	0.10	0.0003353	9.66	0.0023091	438.77	48.4274	0.05	0.0011969	1.16	134.2382	0.58	336.1858	0.23	0.0000000	0.00	0.0293955	9.65
20F28533	10.0 %	✓ 1.311786	0.21	0.0000000	0.00	0.0004491	0.81	0.0000004	112.24	1.661544	0.79	0.2472717	0.26	0.0000000	0.00	0.527703	0.10	0.0002991	9.66	0.0093916	112.25	43.6949	0.05	0.0010675	1.21	122.2341	0.74	391.6469	0.23	0.0000000	0.00	0.0265228	9.65
20F28534	10.5 %	✓ 1.652161	0.20	0.0000000	0.00	0.0003846	0.91	0.0000002	252.27	1.422838	0.89	0.3114324	0.25	0.0000000	0.00	0.467633	0.10	0.0002561	9.67	0.0041072	252.28	38.7210	0.05	0.0009142	1.28	106.8731	1.03	493.2693	0.22	0.0000000	0.00	0.0235036	9.65
20F28536	11.0 %	✓ 1.644160	0.19	0.0000000	0.00	0.0003712	0.98	0.0000009	39.82	1.373123	0.97	0.3099242	0.25	0.0000000	0.00	0.436452	0.10	0.0002472	9.68	0.0240749	39.83	36.1391	0.05	0.0008822	1.33	100.1845	1.08	490.8804	0.22	0.0000000	0.00	0.0219365	9.65
20F28537	11.5 %	✓ 1.642448	0.20	0.0000000	0.00	0.0003407	1.07	0.0000004	103.95	1.260412	1.05	0.3096014	0.25	0.0000000	0.00	0.415490	0.10	0.0002269	9.69	0.0099301	103.95	34.4034	0.05	0.0008098	1.40	97.4508	1.12	490.3692	0.22	0.0000000	0.00	0.0208829	9.65
20F28538	12.1 %	✓ 1.997440	0.19	0.0000000	0.00	0.0003423	1.02	0.0000012	32.76	1.266464	1.00	0.3765174	0.25	0.0000000	0.00	0.444638	0.10	0.0002280	9.68	0.0330380	32.78	36.8170	0.05	0.0008137	1.36	104.6957	1.22	596.3557	0.21	0.0000000	0.00	0.0223479	9.65
20F28540	12.7 %	✓ 2.831183	0.18	0.0000000	0.00	0.0003890	0.93	0.0000007	57.30	1.438963	0.92	0.5336780	0.24	0.0000000	0.00	0.548469	0.10	0.0002590	9.67	0.0183292	57.30	45.4143	0.05	0.0009245	1.30	126.1126	1.40	845.2779	0.21	0.0000000	0.00	0.0275665	9.65
20F28541	13.3 %	✓ 2.370515	0.18	0.0000000	0.00	0.0003053	1.21	0.0000010	41.69	1.129477	1.20	0.4468421	0.24	0.0000000	0.00	0.438817	0.10	0.0002033	9.70	0.0255566	41.70	36.3349	0.05	0.0007257	1.51	101.4231	1.47	707.7409	0.21	0.0000000	0.00	0.0220553	9.65
20F28542	13.9 %	✓ 3.063327	0.18	0.0000000	0.00	0.0003473	0.99	0.0000008	51.03	1.284944	0.98	0.5774372	0.24	0.0000000	0.00	0.496953	0.10	0.0002313	9.68	0.0201572	51.04	41.1488	0.05	0.0008256	1.34	112.3820	1.69	914.5870	0.21	0.0000000	0.00	0.0249773	9.65
20F28544	14.6 %	✓ 3.650448	0.17	0.0000000	0.00	0.0003867	0.94	0.0000016	26.69	1.430586	0.93	0.6881094	0.23	0.0000000	0.00	0.564459	0.10	0.0002575	9.67	0.0425288	26.71	46.7384	0.05	0.0009192	1.31	133.8107	1.64	1089.8777	0.20	0.0000000	0.00	0.0283702	9.65
Σ		32.196688	0.05	0.0000000	0.00	0.0185490	0.11	0.0000467	3.91	68.623838	0.11	6.0690757	0.06	0.0000000	0.00	25.900808	0.02	0.0123523	1.99	1.													

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F28504	0.5 %	20.487889	0.016452	0.042200	0.000722	0.065918	0.000147	22.951	1.577441	1.00016284	1.299E-11
20F28506	0.7 %	11.529320	0.006258	0.045040	0.000309	0.035689	0.000072	22.969	1.578004	1.00016297	1.669E-11
20F28507	0.9 %	11.817715	0.009267	0.045116	0.000578	0.036215	0.000091	22.978	1.578285	1.00016303	9.079E-12
20F28509	1.1 %	9.685195	0.007353	0.043821	0.000506	0.028228	0.000072	22.997	1.578848	1.00016316	8.193E-12
20F28510	1.3 %	10.453015	0.012356	0.043217	0.000988	0.029863	0.000097	23.006	1.579129	1.00016322	4.906E-12
20F28512	1.5 %	5.757016	0.003168	0.040466	0.000223	0.013036	0.000033	23.024	1.579714	1.00016335	1.191E-11
20F28513	1.8 %	4.565786	0.002585	0.036791	0.000205	0.007535	0.000022	23.033	1.579996	1.00016342	1.061E-11
20F28514	2.2 %	3.835539	0.001913	0.032765	0.000137	0.003940	0.000013	23.042	1.580278	1.00016348	1.314E-11
20F28516	2.6 %	3.728253	0.002122	0.030044	0.000168	0.002923	0.000013	23.060	1.580842	1.00016361	9.636E-12
20F28517	3.1 %	3.649486	0.002038	0.028422	0.000176	0.002359	0.000011	23.069	1.581123	1.00016367	1.007E-11
20F28518	3.6 %	3.513400	0.001629	0.027696	0.000105	0.001629	0.000006	23.078	1.581405	1.00016374	1.669E-11
20F28520	4.1 %	3.372969	0.001622	0.027375	0.000114	0.001196	0.000007	23.097	1.581970	1.00016386	1.475E-11
20F28521	4.7 %	3.327344	0.001596	0.026897	0.000112	0.001091	0.000006	23.106	1.582252	1.00016393	1.473E-11
20F28522	5.3 %	3.331823	0.001511	0.027274	0.000093	0.001183	0.000006	23.115	1.582556	1.00016400	1.836E-11
20F28524	6.0 %	3.346774	0.001482	0.027871	0.000088	0.001387	0.000005	23.133	1.583120	1.00016412	2.037E-11
20F28525	6.8 %	3.435312	0.001542	0.028857	0.000089	0.001808	0.000006	23.142	1.583402	1.00016419	1.885E-11
20F28526	7.5 %	3.930444	0.001786	0.030723	0.000106	0.003616	0.000010	23.151	1.583685	1.00016425	1.889E-11
20F28528	8.3 %	5.045219	0.002277	0.034805	0.000121	0.007394	0.000018	23.169	1.584250	1.00016438	2.088E-11
20F28529	8.6 %	✓6.060629	0.003007	0.035964	0.000188	0.010967	0.000026	23.178	1.584532	1.00016444	1.509E-11
20F28530	9.0 %	✓8.151955	0.004139	0.037220	0.000216	0.017971	0.000041	23.188	1.584815	1.00016451	1.699E-11
20F28532	9.5 %	✓9.714365	0.005070	0.038465	0.000275	0.023262	0.000049	23.206	1.585402	1.00016464	1.665E-11
20F28533	10.0 %	✓11.760984	0.006142	0.038025	0.000301	0.030031	0.000064	23.215	1.585684	1.00016470	1.819E-11
20F28534	10.5 %	✓15.499400	0.008293	0.036745	0.000328	0.042677	0.000086	23.224	1.585967	1.00016477	2.125E-11
20F28536	11.0 %	✓16.355469	0.009065	0.037995	0.000367	0.045504	0.000091	23.242	1.586533	1.00016489	2.092E-11
20F28537	11.5 %	✓17.086285	0.009636	0.036635	0.000386	0.047750	0.000097	23.251	1.586816	1.00016496	2.081E-11
20F28538	12.1 %	✓19.041719	0.010359	0.034398	0.000345	0.054261	0.000106	23.260	1.587099	1.00016502	2.482E-11
20F28540	12.7 %	✓21.389699	0.010349	0.031685	0.000291	0.062349	0.000117	23.278	1.587665	1.00016515	3.439E-11
20F28541	13.3 %	✓22.269757	0.011799	0.031085	0.000374	0.065248	0.000124	23.287	1.587948	1.00016521	2.865E-11
20F28542	13.9 %	✓24.957583	0.012323	0.031226	0.000305	0.074452	0.000139	23.297	1.588253	1.00016528	3.636E-11
20F28544	14.6 %	✓26.181760	0.012483	0.030608	0.000284	0.078111	0.000140	23.315	1.588820	1.00016541	4.332E-11

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F28504	0.5 %	0.0159337 ± 0.0004151	0.0174340 ± 0.0055735	0.0007428 ± 0.0071948	0.0106897 ± 0.0082126	4.6863182 ± 0.09777943
20F28506	0.7 %	0.0161506 ± 0.0004151	0.0144399 ± 0.0055735	0.0031542 ± 0.0071948	0.0086412 ± 0.0082126	4.6576268 ± 0.09777943
20F28507	0.9 %	0.0162223 ± 0.0004151	0.0137795 ± 0.0055735	0.0046223 ± 0.0071948	0.0084234 ± 0.0082126	4.6545426 ± 0.09777943
20F28509	1.1 %	0.0163046 ± 0.0004151	0.0137412 ± 0.0055735	0.0067097 ± 0.0071948	0.0092193 ± 0.0082126	4.6644959 ± 0.09777943
20F28510	1.3 %	0.0163197 ± 0.0004151	0.0142208 ± 0.0055735	0.0073724 ± 0.0071948	0.0100937 ± 0.0082126	4.6752263 ± 0.09777943
20F28512	1.5 %	0.0163070 ± 0.0004151	0.0159314 ± 0.0055735	0.0080513 ± 0.0071948	0.0125844 ± 0.0082126	4.7042260 ± 0.09777943
20F28513	1.8 %	0.0162838 ± 0.0004151	0.0169793 ± 0.0055735	0.0080851 ± 0.0071948	0.0139907 ± 0.0082126	4.7195465 ± 0.09777943
20F28514	2.2 %	0.0162521 ± 0.0004151	0.0181032 ± 0.0055735	0.0079555 ± 0.0071948	0.0154627 ± 0.0082126	4.7346767 ± 0.09777943
20F28516	2.6 %	0.0161701 ± 0.0004151	0.0204011 ± 0.0055735	0.0072832 ± 0.0071948	0.0184277 ± 0.0082126	4.7617220 ± 0.09777943
20F28517	3.1 %	0.0161228 ± 0.0004151	0.0214978 ± 0.0055735	0.0067781 ± 0.0071948	0.0198436 ± 0.0082126	4.7725264 ± 0.09777943
20F28518	3.6 %	0.0160735 ± 0.0004151	0.0225156 ± 0.0055735	0.0061847 ± 0.0071948	0.0211711 ± 0.0082126	4.7809191 ± 0.09777943
20F28520	4.1 %	0.0159735 ± 0.0004151	0.0242110 ± 0.0055735	0.0048034 ± 0.0071948	0.0234550 ± 0.0082126	4.7891777 ± 0.09777943
20F28521	4.7 %	0.0159254 ± 0.0004151	0.0248480 ± 0.0055735	0.0040497 ± 0.0071948	0.0243695 ± 0.0082126	4.7886090 ± 0.09777943
20F28522	5.3 %	0.0158765 ± 0.0004151	0.0253551 ± 0.0055735	0.0032161 ± 0.0071948	0.0251614 ± 0.0082126	4.7843268 ± 0.09777943
20F28524	6.0 %	0.0157980 ± 0.0004151	0.0257736 ± 0.0055735	0.0016746 ± 0.0071948	0.0260650 ± 0.0082126	4.7663544 ± 0.09777943
20F28525	6.8 %	0.0157663 ± 0.0004151	0.0257245 ± 0.0055735	0.0009383 ± 0.0071948	0.0262341 ± 0.0082126	4.7527399 ± 0.09777943
20F28526	7.5 %	0.0157406 ± 0.0004151	0.0255090 ± 0.0055735	0.0002450 ± 0.0071948	0.0262179 ± 0.0082126	4.7363504 ± 0.09777943
20F28528	8.3 %	0.0157092 ± 0.0004151	0.0246234 ± 0.0055735	0.0009563 ± 0.0071948	0.0256661 ± 0.0082126	4.6966858 ± 0.09777943
20F28529	8.6 %	0.0157044 ± 0.0004151	0.0239872 ± 0.0055735	0.0014367 ± 0.0071948	0.0251596 ± 0.0082126	4.6743414 ± 0.09777943
20F28530	9.0 %	0.0157072 ± 0.0004151	0.0232524 ± 0.0055735	0.0018195 ± 0.0071948	0.0245262 ± 0.0082126	4.6510838 ± 0.09777943
20F28532	9.5 %	0.0157382 ± 0.0004151	0.0215402 ± 0.0055735	0.0022478 ± 0.0071948	0.0229211 ± 0.0082126	4.6028989 ± 0.09777943
20F28533	10.0 %	0.0157652 ± 0.0004151	0.0207006 ± 0.0055735	0.0022523 ± 0.0071948	0.0220764 ± 0.0082126	4.5814429 ± 0.09777943
20F28534	10.5 %	0.0158000 ± 0.0004151	0.0199073 ± 0.0055735	0.0021102 ± 0.0071948	0.0212365 ± 0.0082126	4.5623627 ± 0.09777943
20F28536	11.0 %	0.0158919 ± 0.0004151	0.0186536 ± 0.0055735	0.0013424 ± 0.0071948	0.0197496 ± 0.0082126	4.5354998 ± 0.09777943
20F28537	11.5 %	0.0159482 ± 0.0004151	0.0183014 ± 0.0055735	0.0006960 ± 0.0071948	0.0192026 ± 0.0082126	4.5300133 ± 0.09777943
20F28538	12.1 %	0.0160108 ± 0.0004151	0.0182123 ± 0.0055735	0.0001383 ± 0.0071948	0.0188608 ± 0.0082126	4.5314950 ± 0.09777943
20F28540	12.7 %	0.0161523 ± 0.0004151	0.0190905 ± 0.0055735	0.0024077 ± 0.0071948	0.0190412 ± 0.0082126	4.5608854 ± 0.09777943
20F28541	13.3 %	0.0162298 ± 0.0004151	0.0202030 ± 0.0055735	0.0038602 ± 0.0071948	0.0196988 ± 0.0082126	4.5917665 ± 0.09777943
20F28542	13.9 %	0.0163168 ± 0.0004151	0.0220224 ± 0.0055735	0.0056735 ± 0.0071948	0.0209413 ± 0.0082126	4.6395124 ± 0.09777943
20F28544	14.6 %	0.0164840 ± 0.0004151	0.0274680 ± 0.0055735	0.0097580 ± 0.0071948	0.0250530 ± 0.0082126	4.7752482 ± 0.09777943

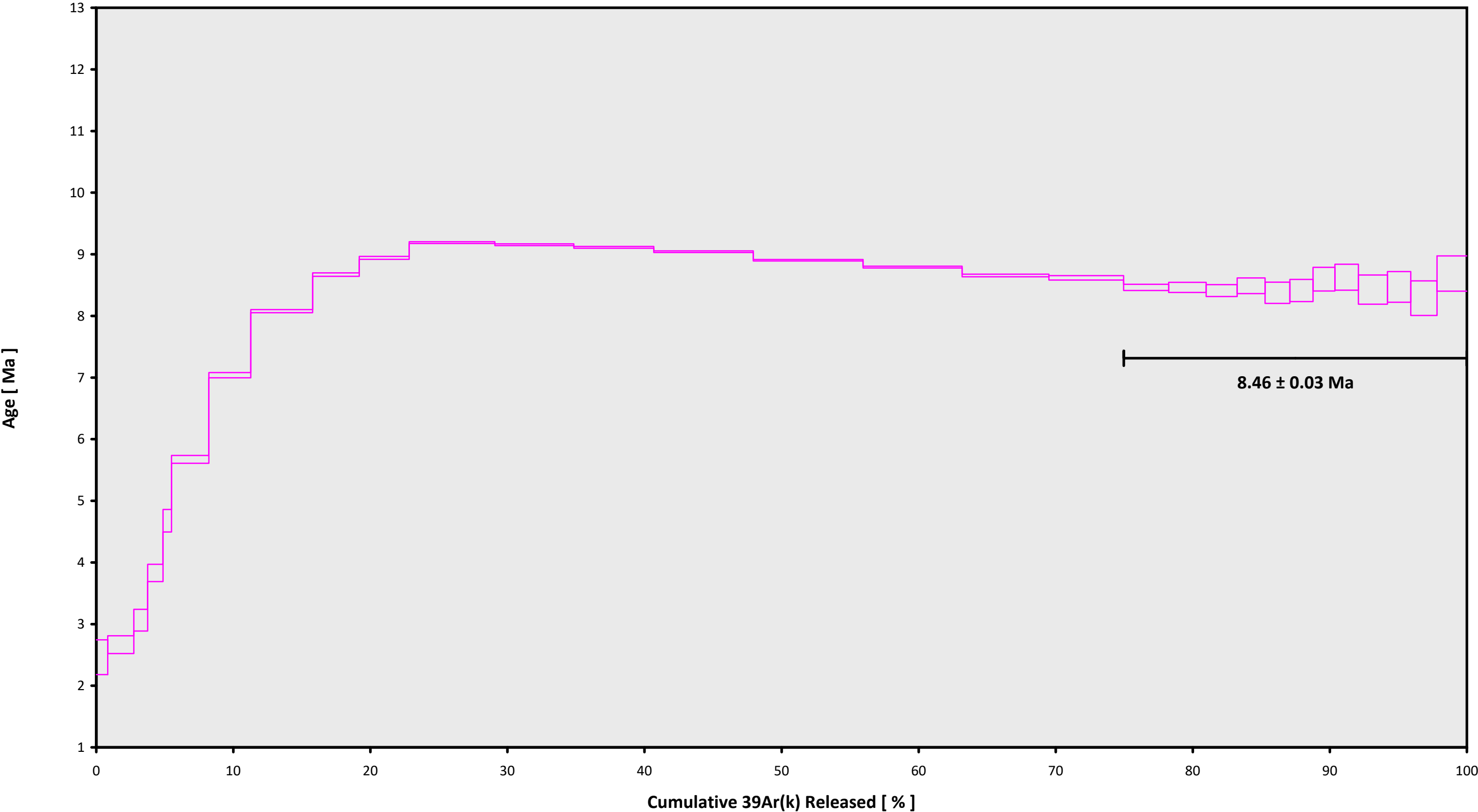
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
20F28504	0.5 %	1.1296750 ± 0.0015234	0.9833	EXP 150 of 150	0.4625167 ± 0.0059852	0.2919	EXP 150 of 150	0.5198241 ± 0.0071091	0.3097	EXP 150 of 150	17.929703 ± 0.008131	0.9980	EXP 150 of 150	371.6784 ± 0.0315	0.9999	EXP 150 of 150
20F28506	0.7 %	1.3923621 ± 0.0015637	0.9886	EXP 150 of 150	1.1542482 ± 0.0055197	0.8272	EXP 150 of 150	0.9570345 ± 0.0069236	0.6646	EXP 149 of 150	40.905508 ± 0.009735	0.9995	EXP 148 of 150	476.0029 ± 0.0301	1.0000	EXP 150 of 150
20F28507	0.9 %	0.7575192 ± 0.0013236	0.9722	EXP 150 of 150	0.6075226 ± 0.0055979	0.4934	EXP 148 of 150	0.5043355 ± 0.0079583	0.2730	EXP 148 of 150	21.717334 ± 0.008815	0.9984	EXP 150 of 150	261.1130 ± 0.0269	0.9999	EXP 150 of 150
20F28509	1.1 %	0.6525902 ± 0.0011509	0.9688	EXP 149 of 150	0.6505638 ± 0.0051828	0.5919	EXP 149 of 150	0.5089715 ± 0.0076047	0.2343	EXP 150 of 150	23.914847 ± 0.008121	0.9989	EXP 148 of 150	236.1128 ± 0.0272	0.9998	EXP 150 of 150
20F28510	1.3 %	0.3898040 ± 0.0009121	0.9422	EXP 150 of 150	0.3492111 ± 0.0061305	0.2984	EXP 149 of 150	0.2864558 ± 0.0085091	0.1238	EXP 150 of 150	13.273915 ± 0.007702	0.9968	EXP 148 of 150	143.2728 ± 0.0233	0.9996	EXP 149 of 150
20F28512	1.5 %	0.7350020 ± 0.0013134	0.9689	EXP 150 of 150	1.4836920 ± 0.0057496	0.8814	EXP 148 of 150	1.0343507 ± 0.0074809	0.6473	EXP 150 of 150	58.484892 ± 0.011947	0.9996	EXP 150 of 150	341.2106 ± 0.0269	0.9999	EXP 150 of 150
20F28513	1.8 %	0.4829348 ± 0.0010271	0.9524	EXP 150 of 150	1.5142877 ± 0.0061097	0.8804	EXP 150 of 150	1.0291080 ± 0.0079258	0.6541	EXP 149 of 150	65.695149 ± 0.013135	0.9996	EXP 150 of 150	304.4991 ± 0.0266	0.9999	EXP 148 of 150
20F28514	2.2 %	0.3758208 ± 0.0009310	0.9237	EXP 150 of 150	1.9912967 ± 0.0056614	0.9348	EXP 150 of 150	1.3718377 ± 0.0072794	0.7933	EXP 150 of 150	96.815012 ± 0.012562	0.9998	EXP 150 of 150	375.8812 ± 0.0254	0.9999	EXP 148 of 150
20F28516	2.6 %	0.2174886 ± 0.0007440	0.8043	EXP 150 of 150	1.3692995 ± 0.0050365	0.8738	EXP 149 of 150	0.9590950 ± 0.0075784	0.6329	EXP 150 of 150	73.053598 ± 0.010926	0.9998	EXP 150 of 150	276.9586 ± 0.0262	0.9999	EXP 149 of 150
20F28517	3.1 %	0.1896275 ± 0.0006708	0.7567	EXP 150 of 150	1.3825434 ± 0.0063890	0.8125	EXP 150 of 150	0.9783901 ± 0.0080453	0.6115	EXP 150 of 150	78.032120 ± 0.011445	0.9998	EXP 150 of 150	289.3761 ± 0.0293	0.9999	EXP 150 of 150
20F28518	3.6 %	0.2222999 ± 0.0006263	0.8250	EXP 150 of 150	2.3314034 ± 0.0061075	0.9411	EXP 150 of 150	1.6301415 ± 0.0066447	0.8765	EXP 148 of 150	134.265187 ± 0.015494	0.9999	EXP 150 of 150	476.2663 ± 0.0310	0.9999	EXP 149 of 150
20F28520	4.1 %	0.1553875 ± 0.0006184	0.5480	EXP 150 of 150	2.1172275 ± 0.0062949	0.9306	EXP 150 of 150	1.4528484 ± 0.0075906	0.8005	EXP 150 of 150	123.626893 ± 0.015403	0.9999	EXP 150 of 150	421.5518 ± 0.0313	0.9999	EXP 150 of 150
20F28521	4.7 %	0.1445659 ± 0.0005731	0.4520	EXP 150 of 150	2.1036060 ± 0.0062428	0.9254	EXP 150 of 150	1.4740547 ± 0.0078131	0.7954	EXP 150 of 150	125.083105 ± 0.015093	0.9999	EXP 150 of 150	420.7544 ± 0.0303	0.9999	EXP 150 of 150
20F28522	5.3 %	0.1896002 ± 0.0006532	0.7019	EXP 150 of 150	2.6617271 ± 0.0062763	0.9515	EXP 150 of 150	1.8165730 ± 0.0073367	0.8745	EXP 150 of 150	155.754329 ± 0.016654	0.9999	EXP 147 of 150	523.4622 ± 0.0376	0.9999	EXP 150 of 150
20F28524	6.0 %	0.2407542 ± 0.0006638	0.8126	EXP 150 of 150	3.0065449 ± 0.0064636	0.9580	EXP 150 of 150	2.0029063 ± 0.0075500	0.8837	EXP 150 of 150	172.062003 ± 0.017482	0.9999	EXP 149 of 150	580.3275 ± 0.0368	1.0000	EXP 149 of 150
20F28525	6.8 %	0.2800337 ± 0.0006740	0.8718	EXP 144 of 150	2.8035432 ± 0.0054498	0.9660	EXP 150 of 150	1.8278552 ± 0.0067452	0.8849	EXP 150 of 150	155.082983 ± 0.015173	0.9999	EXP 150 of 150	537.2320 ± 0.0374	0.9999	EXP 150 of 150
20F28526	7.5 %	0.4788765 ± 0.0009708	0.9473	EXP 150 of 150	2.6125300 ± 0.0061203	0.9516	EXP 149 of 150	1.6646677 ± 0.0073732	0.8385	EXP 150 of 150	135.844349 ± 0.016510	0.9999	EXP 150 of 150	538.3726 ± 0.0330	1.0000	EXP 148 of 150
20F28528	8.3 %	0.8312225 ± 0.0013964	0.9707	EXP 150 of 150	2.5481525 ± 0.0060448	0.9517	EXP 150 of 150	1.5644338 ± 0.0080743	0.8061	EXP 150 of 150	116.992402 ± 0.015185	0.9998	EXP 150 of 150	594.6102 ± 0.0367	1.0000	EXP 149 of 150
20F28529	8.6 %	0.7432916 ± 0.0011638	0.9747	EXP 150 of 150	1.5749295 ± 0.0057902	0.8934	EXP 149 of 150	0.9998833 ± 0.0072847	0.6910	EXP 148 of 150	70.387583 ± 0.011138	0.9998	EXP 146 of 150	430.9638 ± 0.0280	0.9999	EXP 149 of 150
20F28530	9.0 %	1.0134703 ± 0.0015512	0.9781	EXP 150 of 150	1.3612881 ± 0.0054542	0.8732	EXP 150 of 150	0.9030454 ± 0.0071688	0.5981	EXP 150 of 150	58.906345 ± 0.011901	0.9996	EXP 150 of 150	484.4829 ± 0.0353	0.9999	EXP 150 of 150
20F28532	9.5 %	1.0783194 ± 0.0013307	0.9860	EXP 149 of 150	1.1552680 ± 0.0060690	0.8038	EXP 150 of 150	0.8028377 ± 0.0069047	0.5676	EXP 150 of 150	48.468723 ± 0.010337	0.9996	EXP 150 of 150	475.0564 ± 0.0310	0.9999	EXP 149 of 150
20F28533	10.0 %	1.2535124 ± 0.0016278	0.9845	EXP 150 of 150	1.0287720 ± 0.0059578	0.7411	EXP 150 of 150	0.7877340 ± 0.0075094	0.5340	EXP 150 of 150	43.733519 ± 0.009470	0.9996	EXP 149 of 150	518.4890 ± 0.0315	1.0000	EXP 147 of 150
20F28534	10.5 %	1.5745401 ± 0.0018059	0.9876	EXP 150 of 150	0.8786327 ± 0.0056292	0.6883	EXP 150 of 150	0.7863537 ± 0.0072615	0.5246	EXP 149 of 150	38.756830 ± 0.009545	0.9994	EXP 150 of 150	604.7282 ± 0.0358	1.0000	EXP 150 of 150
20F28536	11.0 %	1.5670730 ± 0.0017253	0.9890	EXP 149 of 150	0.8481812 ± 0.0061328	0.6985	EXP 149 of 150	0.7728423 ± 0.0061113	0.6263	EXP 147 of 150	36.172558 ± 0.009780	0.9993	EXP 148 of 150	595.6223 ± 0.0397	0.9999	EXP 150 of 150
20F28537	11.5 %	1.5654849 ± 0.0017867	0.9881	EXP 150 of 150	0.7772388 ± 0.0061675	0.6276	EXP 149 of 150	0.7367094 ± 0.0072324	0.5088	EXP 150 of 150	34.435636 ± 0.009669	0.9992	EXP 150 of 150	592.3709 ± 0.0370	1.0000	EXP 150 of 150
20F28538	12.1 %	1.9003913 ± 0.0019388	0.9907	EXP 150 of 150	0.7810050 ± 0.0056350	0.6821	EXP 150 of 150	0.8551721 ± 0.0078769	0.5555	EXP 150 of 150	36.849669 ± 0.010020	0.9993	EXP 150 of 150	705.6052 ± 0.0331	1.0000	EXP 148 of 150
20F28540	12.7 %	2.6869920 ± 0.0024654	0.9925	EXP 150 of 150	0.8886610 ± 0.0060626	0.6892	EXP 150 of 150	1.0994717 ± 0.0072738	0.7004	EXP 149 of 150	45.450342 ± 0.008959	0.9996	EXP 150 of 150	975.9790 ± 0.0421	1.0000	EXP 150 of 150
20F28541	13.3 %	2.2524725 ± 0.0021054	0.9925	EXP 148 of 150	0.6921862 ± 0.0064255	0.5530	EXP 150 of 150	0.9085066 ± 0.0076138	0.5562	EXP 150 of 150	36.368206 ± 0.009088	0.9994	EXP 150 of 150	813.7779 ± 0.0363	1.0000	EXP 148 of 150
20F28542	13.9 %	2.9060842 ± 0.0026031	0.9928	EXP 150 of 150	0.7882677 ± 0.0055177	0.6666	EXP 150 of 150	1.0902442 ± 0.0069632	0.6751	EXP 148 of 150	41.185073 ± 0.008449	0.9996	EXP 148 of 150	1031.6335 ± 0.0489	1.0000	EXP 150 of 150
20F28544	14.6 %	3.4600822 ± 0.0025924	0.9951	EXP 149 of 150	0.8743426 ± 0.0060956	0.7125	EXP 150 of 150	1.2869440 ± 0.0083286	0.7153	EXP 150 of 150	46.780866 ± 0.009080	0.9996	EXP 150 of 150	1228.4920 ± 0.0525	1.0000	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F28504	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28506	0.7 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28507	0.9 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28509	1.1 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28510	1.3 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28512	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28513	1.8 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28514	2.2 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28516	2.6 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28517	3.1 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28518	3.6 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28520	4.1 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28521	4.7 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28522	5.3 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28524	6.0 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28525	6.8 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28526	7.5 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28528	8.3 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28529	8.6 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28530	9.0 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28532	9.5 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28533	10.0 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28534	10.5 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28536	11.0 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28537	11.5 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28538	12.1 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28540	12.7 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28541	13.3 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28542	13.9 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	01
20F28544	14.6 %	Dan Miggins	20-OSU-04	0.00	0.00	4.70	Oregon\McClaghry (19-20)	20F28500	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
20F28504	0.5 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	14	26	1
20F28506	0.7 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	14	52	1
20F28507	0.9 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	15	5	1
20F28509	1.1 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	15	31	1
20F28510	1.3 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	15	44	1
20F28512	1.5 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	16	11	1
20F28513	1.8 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	16	24	1
20F28514	2.2 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	16	37	1
20F28516	2.6 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	17	3	1
20F28517	3.1 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	17	16	1
20F28518	3.6 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	17	29	1
20F28520	4.1 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	17	55	1
20F28521	4.7 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	18	8	1
20F28522	5.3 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	18	22	1
20F28524	6.0 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	18	48	1
20F28525	6.8 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	19	1	1
20F28526	7.5 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	19	14	1
20F28528	8.3 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	19	40	1
20F28529	8.6 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	19	53	1
20F28530	9.0 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	20	6	1
20F28532	9.5 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	20	33	1
20F28533	10.0 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	20	46	1
20F28534	10.5 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	20	59	1
20F28536	11.0 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	21	25	1
20F28537	11.5 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	21	38	1
20F28538	12.1 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	21	51	1
20F28540	12.7 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	22	17	1
20F28541	13.3 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	22	30	1
20F28542	13.9 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	22	44	1
20F28544	14.6 %	148 BRHC 19	Groundmass	Burns Butte	FCT-NM (4B4-20)	28.201	0.082	Kuiper et al (2008)	9.34384	0.048	0.00166158	0.048	297.941	0.115	1.00052007	0.039	1	3.54E-14	24	OCT	2020	23	10	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
20F28504	0.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28506	0.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28507	0.9 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28509	1.1 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28510	1.3 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28512	1.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28513	1.8 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28514	2.2 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28516	2.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28517	3.1 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28518	3.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28520	4.1 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28521	4.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28522	5.3 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28524	6.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28525	6.8 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28526	7.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28528	8.3 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28529	8.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28530	9.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28532	9.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28533	10.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28534	10.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28536	11.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28537	11.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28538	12.1 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28540	12.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28541	13.3 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28542	13.9 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28544	14.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0

20F28500.AGE >>> 148 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

8.46 ± 0.03

TOTAL FUSION

8.31 ± 0.02

NORMAL ISOCHRON

8.45 ± 0.06

INVERSE ISOCHRON

8.45 ± 0.06

MSWD (PROBABILITY)

1.01 (43%)

Sample Info

Groundmass

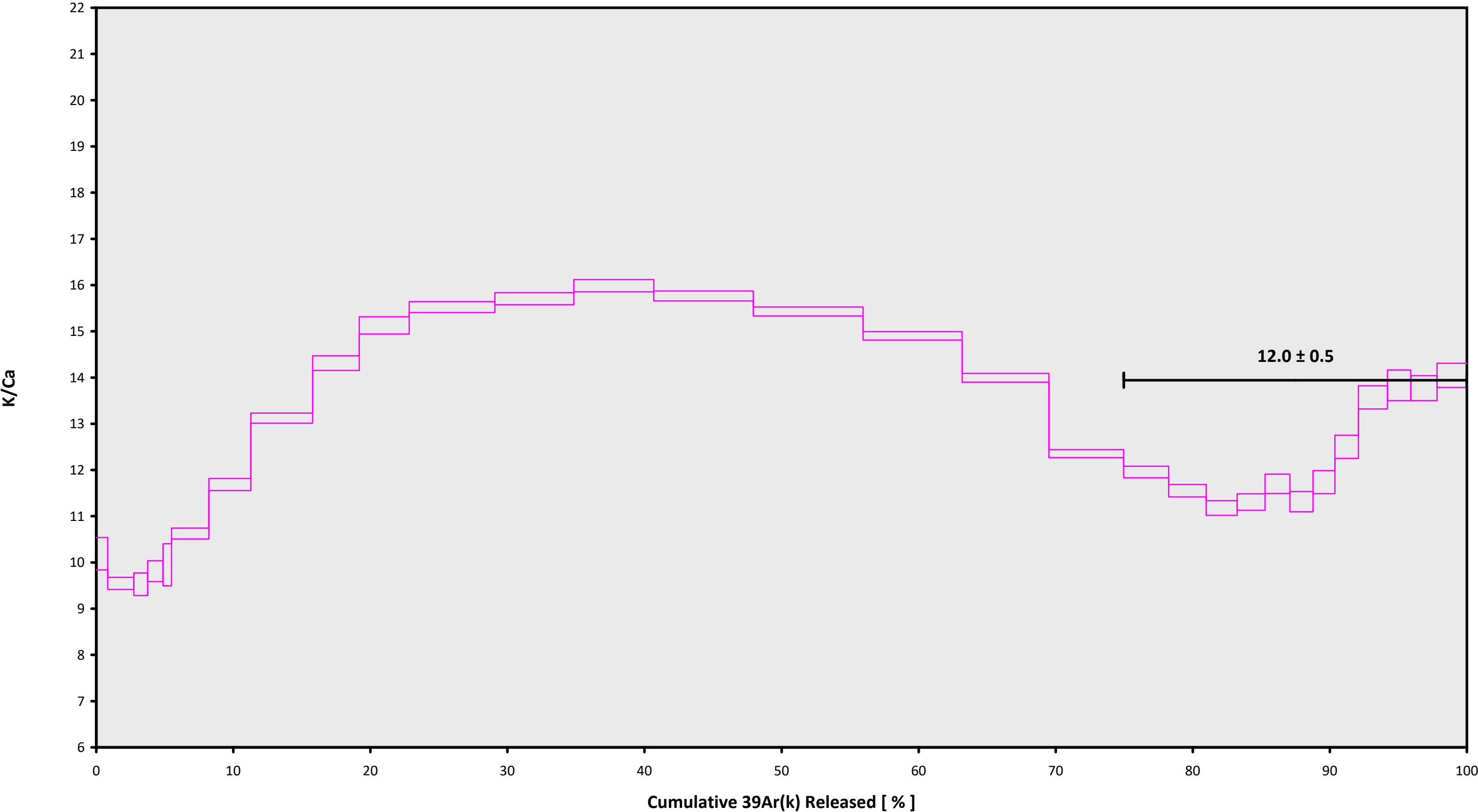
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B4-20)

J = $0.00166158 \pm 0.00000080$

20F28500.AGE >>> 148 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

8.46 ± 0.03

TOTAL FUSION

8.31 ± 0.02

NORMAL ISOCHRON

8.45 ± 0.06

INVERSE ISOCHRON

8.45 ± 0.06

Sample Info

Groundmass

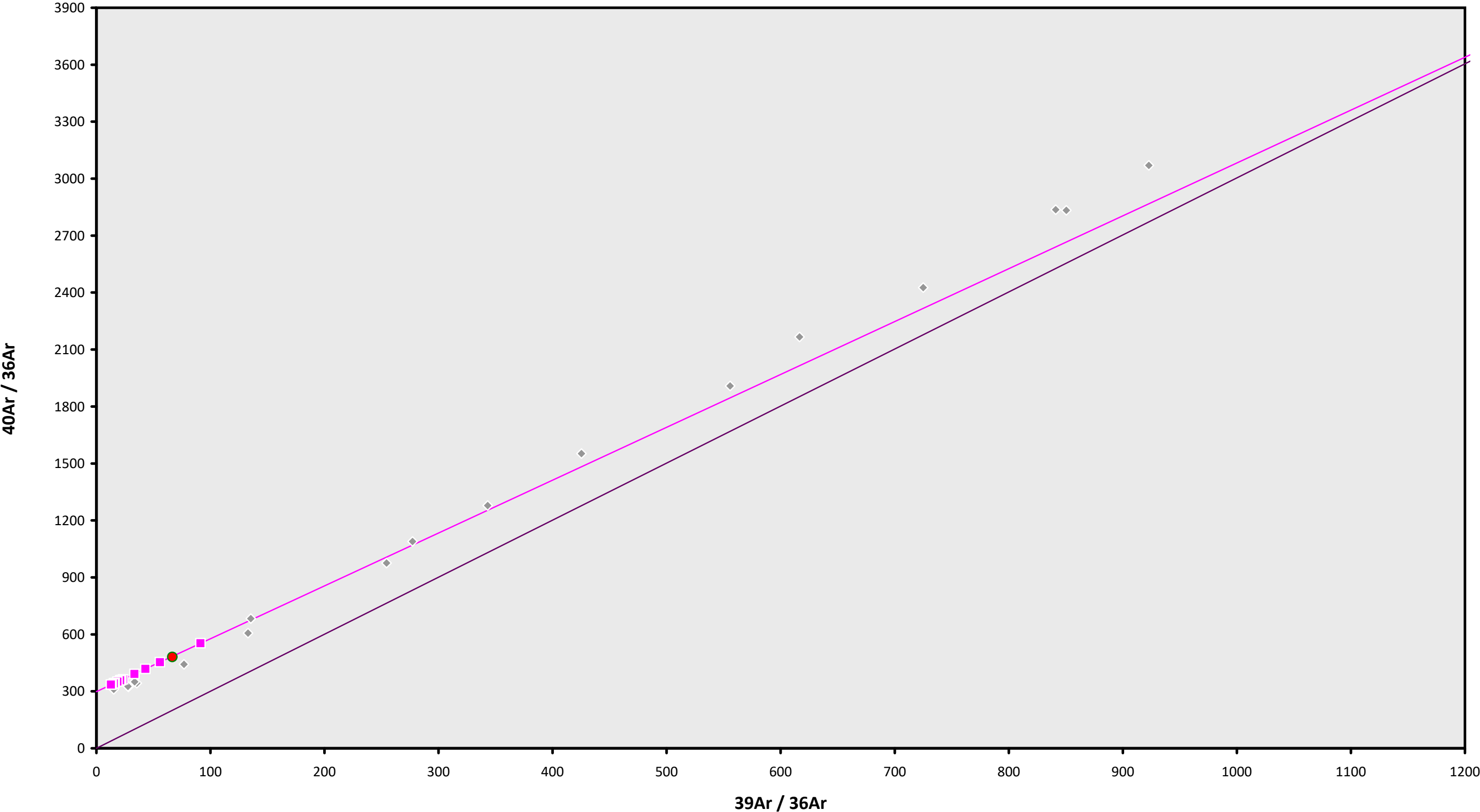
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B4-20)

J = 0.00166158 ± 0.00000080

20F28500.AGE >>> 148 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

8.46 ± 0.03

TOTAL FUSION

8.31 ± 0.02

NORMAL ISOCHRON

8.45 ± 0.06

INVERSE ISOCHRON

8.45 ± 0.06

MSWD (PROBABILITY)

1.41 (17%)

40AR/36AR INTERCEPT

298.7 ± 0.7

Sample Info

Groundmass

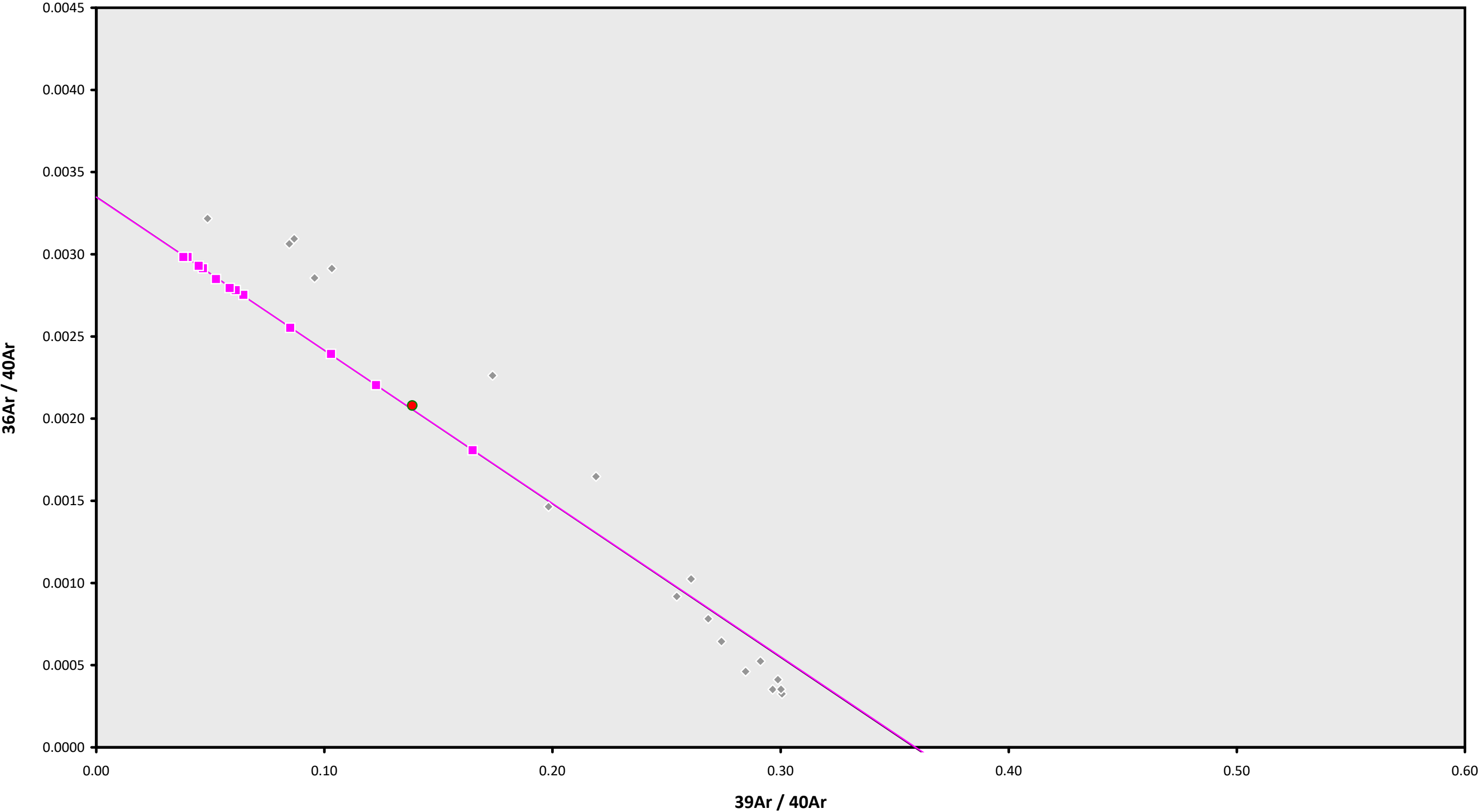
Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B4-20)

J = 0.00166158 ± 0.00000080

20F28500.AGE >>> 148 BRHC 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

8.46 ± 0.03

TOTAL FUSION

8.31 ± 0.02

NORMAL ISOCHRON

8.45 ± 0.06

INVERSE ISOCHRON

8.45 ± 0.06

MSWD (PROBABILITY)

1.41 (17%)

SPREADING FACTOR

35.3%

40AR/36AR INTERCEPT

298.8 ± 0.7

Sample Info

Groundmass

Burns Butte

Dan Miggins

IRR = 20-OSU-04 (4B4-20)

$J = 0.00166158 \pm 0.00000080$