

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
20F28457	0.4 %	0.0404987	1.531	0.8516	1.471	0.0262587	39.592	1.16216	0.766	12.02403	1.157	0.82470 ± 0.57499	2.51 ± 1.75	7.97	0.15	0.587 ± 0.019
20F28459	0.5 %	0.0152470	3.814	0.4837	2.775	0.0215920	49.700	0.62602	1.457	4.65093	2.987	0.79409 ± 0.74123	2.41 ± 2.25	10.68	0.08	0.556 ± 0.035
20F28460	0.6 %	0.0498522	1.300	1.5690	0.850	0.0455603	23.845	1.99618	0.460	15.18673	0.915	0.80358 ± 0.38321	2.44 ± 1.16	10.56	0.26	0.547 ± 0.011
20F28461	0.7 %	0.0238666	2.491	1.8406	0.729	0.0404919	25.365	2.08318	0.437	7.26769	1.911	0.40584 ± 0.24913	1.23 ± 0.76	11.63	0.28	0.486 ± 0.008
20F28463	0.9 %	0.0048079	11.661	0.7717	1.621	0.0153448	68.737	0.74974	1.225	1.61052	8.629	0.46214 ± 0.55922	1.40 ± 1.70	21.50	0.10	0.417 ± 0.017
20F28464	1.1 %	0.0201471	2.922	2.1621	0.640	0.0504315	22.352	2.23491	0.414	6.34605	2.189	0.43397 ± 0.22001	1.32 ± 0.67	15.27	0.30	0.444 ± 0.007
20F28465	1.3 %	0.0077604	7.230	1.8858	0.721	0.0273547	38.436	1.66337	0.557	2.80643	4.948	0.48916 ± 0.25559	1.49 ± 0.78	28.97	0.22	0.379 ± 0.007
20F28467	1.5 %	0.0139355	4.118	4.2016	0.337	0.0597846	17.672	3.72864	0.242	5.30403	2.622	0.47897 ± 0.12075	1.46 ± 0.37	33.65	0.49	0.381 ± 0.003
20F28468	1.8 %	0.0489192	1.276	13.8688	0.166	0.2049718	5.334	12.42372	0.090	18.51638	0.750	0.49110 ± 0.05766	1.49 ± 0.18	32.93	1.65	0.385 ± 0.001
20F28469	2.2 %	0.0407038	1.538	19.0920	0.154	0.2365467	4.507	15.25622	0.076	18.34887	0.758	0.56240 ± 0.04111	1.71 ± 0.12	46.72	2.02	0.343 ± 0.001
20F28471	2.6 %	0.0357090	1.676	22.6924	0.150	0.2404205	4.502	17.34225	0.070	18.51481	0.752	0.59890 ± 0.03275	1.82 ± 0.10	56.05	2.30	0.328 ± 0.001
20F28472	3.1 %	0.0612054	1.068	41.6822	0.140	0.3985001	2.585	31.36523	0.054	33.69970	0.413	0.63686 ± 0.02462	1.94 ± 0.07	59.22	4.16	0.323 ± 0.001
20F28473	3.6 %	0.0596468	1.112	53.3771	0.139	0.4999683	2.231	41.19026	0.048	39.39159	0.353	0.65460 ± 0.01768	1.99 ± 0.05	68.39	5.46	0.332 ± 0.001
20F28475	4.1 %	0.0547355	1.164	61.6042	0.140	0.5692944	1.908	48.55804	0.045	42.26713	0.329	0.65486 ± 0.01347	1.99 ± 0.04	75.17	6.43	0.339 ± 0.001
20F28476	4.7 %	0.0497688	1.269	62.1385	0.137	0.5686305	1.769	49.79047	0.046	41.54009	0.335	0.65224 ± 0.01220	1.98 ± 0.04	78.12	6.60	0.344 ± 0.001
20F28477	5.3 %	0.0604811	1.079	81.7190	0.137	0.7620625	1.420	65.43871	0.044	52.13279	0.267	0.63535 ± 0.01012	1.93 ± 0.03	79.69	8.67	0.344 ± 0.001
20F28479	6.0 %	✓0.0755963	0.905	98.0567	0.137	0.9019474	1.180	77.88559	0.043	62.58400	0.223	0.63024 ± 0.00993	1.92 ± 0.03	78.37	10.32	0.341 ± 0.001
20F28480	6.8 %	✓0.0622501	1.038	90.6576	0.136	0.8527119	1.286	71.97773	0.044	54.84065	0.254	0.61770 ± 0.00910	1.88 ± 0.03	81.01	9.54	0.341 ± 0.001
20F28481	7.5 %	✓0.0583731	1.088	84.8785	0.137	0.7716292	1.380	66.16470	0.044	50.32635	0.277	0.61337 ± 0.00953	1.86 ± 0.03	80.57	8.77	0.335 ± 0.001
20F28483	8.3 %	✓0.0574288	1.177	80.2196	0.138	0.7229453	1.434	59.68528	0.044	46.19682	0.302	0.60936 ± 0.01082	1.85 ± 0.03	78.66	7.91	0.320 ± 0.001
20F28484	9.1 %	✓0.0552775	1.196	66.6610	0.138	0.5534908	1.945	45.68717	0.047	38.12464	0.364	0.61034 ± 0.01431	1.85 ± 0.04	73.07	6.05	0.294 ± 0.001
20F28485	10.1 %	✓0.0549935	1.228	65.2135	0.137	0.4726140	2.178	37.18565	0.050	32.83071	0.424	0.60684 ± 0.01773	1.84 ± 0.05	68.66	4.93	0.245 ± 0.001
20F28487	11.2 %	✓0.0581068	1.139	56.7891	0.138	0.3634923	3.039	28.47501	0.055	29.40163	0.473	0.62012 ± 0.02474	1.88 ± 0.08	59.98	3.77	0.215 ± 0.001
20F28488	12.4 %	✓0.0456589	1.373	45.2773	0.138	0.2583359	4.156	20.28308	0.066	21.66723	0.642	0.61575 ± 0.03005	1.87 ± 0.09	57.56	2.69	0.192 ± 0.001
20F28489	13.6 %	✓0.0424188	1.466	39.9406	0.140	0.2120129	4.978	15.51931	0.078	18.08616	0.768	0.60588 ± 0.03819	1.84 ± 0.12	51.90	2.05	0.167 ± 0.001
20F28491	14.9 %	✓0.0435279	1.409	39.2011	0.141	0.1856841	5.696	12.96356	0.083	16.81838	0.827	0.59987 ± 0.04638	1.82 ± 0.14	46.15	1.72	0.142 ± 0.000
20F28492	16.2 %	✓0.0374479	1.599	34.2633	0.142	0.1388141	7.214	10.19141	0.102	13.84105	1.004	0.59881 ± 0.05470	1.82 ± 0.17	44.00	1.35	0.128 ± 0.000
20F28493	17.6 %	✓0.0277132	2.122	24.5912	0.146	0.1064971	9.684	7.12172	0.144	10.04451	1.385	0.59831 ± 0.07054	1.82 ± 0.21	42.33	0.94	0.124 ± 0.001
20F28495	19.0 %	✓0.0229032	2.520	19.8065	0.155	0.0754407	13.900	6.01873	0.169	8.51996	1.630	0.61503 ± 0.07914	1.87 ± 0.24	43.36	0.80	0.130 ± 0.001
Σ		1.2289812	0.274	1115.4961	0.033	9.3828288	0.610	754.76807	0.013	722.88987	0.104					

Information on Analysis and Constants Used in Calculations	
Project = MCCLAUGHRY (19-20)	
Sample = 178 DFWJ 15	
Material = Groundmass	
Location = Badger Lake	
Region = Eastern Cascades	
Analyst = Dan Miggins	
Irradiation = 20-OSU-04 (4B3-20)	
Position = X: 0   Y: 0   Z/H: 3.109075 mm	
FCT-NM Age = 28.201 ± 0.023 Ma	
FCT-NM Reference = Kuiper et al (2008)	
FCT-NM 40Ar/39Ar Ratio = 9.34733 ± 0.00449	
FCT-NM J-value = 0.00166095 ± 0.00000080	
Air Shot 40Ar/36Ar = 297.5220 ± 0.3422	
Air Shot MDF = 1.00087333 ± 0.00038948 (LIN)	
Experiment Type = Incremental Heating	
Extraction Method = Bulk Laser Heating	
Heating = 64 sec	
Isolation = 6.12 min	
Instrument = ARGUS-VI-F	
Preferred Age = Plateau Age	
Age Classification = Crystallization Age	
IGSN = Undefined	
Rock Class = Undefined	
Lithology = Undefined	
Lat-Lon = Undefined - Undefined	

Age Equations = Min et al. (2000)  
Negative Intensities = Allowed  
Collector Calibrations = 36Ar  
Decay 40K = 5.463 ± 0.107 E-10 1/a  
Decay 39Ar = 2.940 ± 0.016 E-07 1/h  
Decay 37Ar = 8.230 ± 0.012 E-04 1/h  
Decay 36Cl = 2.257 ± 0.015 E-06 1/a  
Decay 40K(EC,β<sup>+</sup>) = 0.580 ± 0.014 E-10 1/a  
Decay 40K(β<sup>-</sup>) = 4.884 ± 0.099 E-10 1/a  
Atmospheric 40/36(a) = 274.79 ± 6.24  
Atmospheric 38/36(a) = 0.1885 ± 0.0003  
Production 39/37(ca) = 0.0006425 ± 0.0000059  
Production 38/37(ca) = 0.0001800 ± 0.0000173  
Production 36/37(ca) = 0.0002703 ± 0.0000005  
Production 40/39(k) = 0.000607 ± 0.000059  
Production 38/39(k) = 0.012077 ± 0.000011  
Production 36/38(cl) = 262.80 ± 1.71  
Scaling Ratio K/Ca = 0.430  
Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04  
Atomic Weight K = 39.0983 ± 0.0001 g

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		0.61609 ± 0.00453 ± 0.74%	1.87 ± 0.01 ± 0.74%	1.12 34%	60.83 13	0.187 ± 0.042
		Full External Error ± 0.10		1.82	2σ Confidence Limit	
		Analytical Error ± 0.01		1.0565	Error Magnification	
Total Fusion Age		0.62009 ± 0.00439 ± 0.71%	1.88 ± 0.01 ± 0.71%		29	0.291 ± 0.000
		Full External Error ± 0.10				
		Analytical Error ± 0.01				
Normal Isochron Error Chron	269.88 ± 12.28 ± 4.55%	0.61997 ± 0.01000 ± 1.61%	1.88 ± 0.03 ± 1.61%	2.58 0%	60.83 13	
		Full External Error ± 0.10		1.85	2σ Confidence Limit	
		Analytical Error ± 0.03		1.6071	Error Magnification	
				21	Number of Iterations	
				0.0000058670	Convergence	
Inverse Isochron Error Chron	269.64 ± 12.62 ± 4.68%	0.62087 ± 0.01023 ± 1.65%	1.89 ± 0.03 ± 1.65%	2.71 0%	60.83 13	
		Full External Error ± 0.10		1.85	2σ Confidence Limit	
		Analytical Error ± 0.03		1.6468	Error Magnification	
				3	Number of Iterations	
Notes				0.0018703866	Convergence	
Subatmospheric Initial 40Ar/36Ar = 274.79 ± 2.27 (%SD).				38%	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
20F28457	0.4 %	0.0402684	0.8516	0.0044860	1.16161	0.95798	2.51 ± 1.75	7.97	0.15	0.587 ± 0.019
20F28459	0.5 %	0.0151158	0.4837	0.0110989	0.62571	0.49687	2.41 ± 2.25	10.68	0.08	0.556 ± 0.035
20F28460	0.6 %	0.0494277	1.5690	0.0118650	1.99518	1.60328	2.44 ± 1.16	10.56	0.26	0.547 ± 0.011
20F28461	0.7 %	0.0233687	1.8406	0.0106113	2.08200	0.84495	1.23 ± 0.76	11.63	0.28	0.486 ± 0.008
20F28463	0.9 %	0.0045992	0.7717	0.0052903	0.74924	0.34626	1.40 ± 1.70	21.50	0.10	0.417 ± 0.017
20F28464	1.1 %	0.0195619	2.1621	0.0193807	2.23352	0.96927	1.32 ± 0.67	15.27	0.30	0.444 ± 0.007
20F28465	1.3 %	0.0072505	1.8858	0.0055745	1.66216	0.81306	1.49 ± 0.78	28.97	0.22	0.379 ± 0.007
20F28467	1.5 %	0.0127994	4.2016	0.0116174	3.72594	1.78462	1.46 ± 0.37	33.65	0.49	0.381 ± 0.003
20F28468	1.8 %	0.0451688	13.8688	0.0440274	12.41481	6.09690	1.49 ± 0.18	32.93	1.65	0.385 ± 0.001
20F28469	2.2 %	0.0355416	19.0920	0.0423093	15.24395	8.57313	1.71 ± 0.12	46.72	2.02	0.343 ± 0.001
20F28471	2.6 %	0.0295744	22.6924	0.0214949	17.32767	10.37753	1.82 ± 0.10	56.05	2.30	0.328 ± 0.001
20F28472	3.1 %	0.0499386	41.6822	0.0031094	31.33845	19.95805	1.94 ± 0.07	59.22	4.16	0.323 ± 0.001
20F28473	3.6 %	0.0452190	53.3771	0.0000000	41.15596	26.94089	1.99 ± 0.05	68.39	5.46	0.332 ± 0.001
20F28475	4.1 %	0.0380838	61.6042	0.0000000	48.51846	31.77262	1.99 ± 0.04	75.17	6.43	0.339 ± 0.001
20F28476	4.7 %	0.0329728	62.1385	0.0000000	49.75055	32.44930	1.98 ± 0.04	78.12	6.60	0.344 ± 0.001
20F28477	5.3 %	0.0383925	81.7190	0.0000000	65.38621	41.54323	1.93 ± 0.03	79.69	8.67	0.344 ± 0.001
20F28479	6.0 %	✓ 0.0490916	98.0567	0.0000000	77.82258	49.04688	1.92 ± 0.03	78.37	10.32	0.341 ± 0.001
20F28480	6.8 %	✓ 0.0377454	90.6576	0.0000000	71.91948	44.42493	1.88 ± 0.03	81.01	9.54	0.341 ± 0.001
20F28481	7.5 %	✓ 0.0354305	84.8785	0.0000000	66.11017	40.55028	1.86 ± 0.03	80.57	8.77	0.335 ± 0.001
20F28483	8.3 %	✓ 0.0357455	80.2196	0.0000000	59.63374	36.33813	1.85 ± 0.03	78.66	7.91	0.320 ± 0.001
20F28484	9.1 %	✓ 0.0372590	66.6610	0.0000000	45.64435	27.85852	1.85 ± 0.04	73.07	6.05	0.294 ± 0.001
20F28485	10.1 %	✓ 0.0373661	65.2135	0.0052469	37.14376	22.54034	1.84 ± 0.05	68.66	4.93	0.245 ± 0.001
20F28487	11.2 %	✓ 0.0427567	56.7891	0.0017586	28.43852	17.63526	1.88 ± 0.08	59.98	3.77	0.215 ± 0.001
20F28488	12.4 %	✓ 0.0334204	45.2773	0.0000000	20.25399	12.47134	1.87 ± 0.09	57.56	2.69	0.192 ± 0.001
20F28489	13.6 %	✓ 0.0316224	39.9406	0.0117459	15.49365	9.38723	1.84 ± 0.12	51.90	2.05	0.167 ± 0.001
20F28491	14.9 %	✓ 0.0329313	39.2011	0.0161637	12.93837	7.76135	1.82 ± 0.14	46.15	1.72	0.142 ± 0.000
20F28492	16.2 %	✓ 0.0281863	34.2633	0.0045178	10.16940	6.08956	1.82 ± 0.17	44.00	1.35	0.128 ± 0.000
20F28493	17.6 %	✓ 0.0210658	24.5912	0.0122815	7.10592	4.25154	1.82 ± 0.21	42.33	0.94	0.124 ± 0.001
20F28495	19.0 %	✓ 0.0175495	19.8065	0.0000000	6.00600	3.69389	1.87 ± 0.24	43.36	0.80	0.130 ± 0.001
Σ		0.9274537	1115.4961	0.2425795	754.05136	467.57717				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 178 DFWJ 15 Material = Groundmass Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B3-20) J = 0.00166095 ± 0.00000080 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	0.61609 ± 0.00453 ± 0.74% Full External Error ± 0.10 Analytical Error ± 0.01	1.87 ± 0.01 ± 0.74%	1.12 34% 1.82 1.0565	60.83 13 2σ Confidence Limit Error Magnification	0.187 ± 0.042
	Total Fusion Age	0.62009 ± 0.00439 ± 0.71% Full External Error ± 0.10 Analytical Error ± 0.01	1.88 ± 0.01 ± 0.71%		29	0.291 ± 0.000

Normal Isochron		39(k)/36(a) ± 2σ		40(a+r)/36(a) ± 2σ	r.i.
20F28457	0.4 %		28.85 ± 0.99	298.58 ± 11.50	0.7157
20F28459	0.5 %		41.39 ± 3.41	307.66 ± 29.97	0.7385
20F28460	0.6 %		40.37 ± 1.12	307.23 ± 9.82	0.7738
20F28461	0.7 %		89.09 ± 4.60	310.95 ± 19.79	0.7879
20F28463	0.9 %		162.91 ± 39.92	350.08 ± 104.58	0.8120
20F28464	1.1 %		114.18 ± 6.94	324.34 ± 24.14	0.8010
20F28465	1.3 %		229.25 ± 35.57	386.93 ± 71.09	0.8403
20F28467	1.5 %		291.10 ± 26.14	414.22 ± 43.04	0.8618
20F28468	1.8 %		274.85 ± 7.61	409.77 ± 12.89	0.8770
20F28469	2.2 %		428.90 ± 15.13	516.00 ± 19.80	0.9177
20F28471	2.6 %		585.90 ± 23.74	625.69 ± 27.03	0.9368
20F28472	3.1 %		627.54 ± 16.46	674.44 ± 18.53	0.9530
20F28473	3.6 %		910.15 ± 26.74	870.58 ± 26.30	0.9717
20F28475	4.1 %		1273.99 ± 42.72	1109.07 ± 37.89	0.9809
20F28476	4.7 %		1508.84 ± 57.92	1258.91 ± 49.04	0.9848
20F28477	5.3 %		1703.10 ± 58.10	1356.86 ± 46.83	0.9876
20F28479	6.0 %	✓	1585.25 ± 44.38	1273.88 ± 36.09	0.9871
20F28480	6.8 %	✓	1905.38 ± 65.51	1451.75 ± 50.44	0.9889
20F28481	7.5 %	✓	1865.91 ± 67.12	1419.29 ± 51.64	0.9880
20F28483	8.3 %	✓	1668.29 ± 63.28	1291.37 ± 49.59	0.9873
20F28484	9.1 %	✓	1225.05 ± 43.57	1022.49 ± 37.11	0.9793
20F28485	10.1 %	✓	994.05 ± 36.01	878.02 ± 32.66	0.9732
20F28487	11.2 %	✓	665.12 ± 20.63	687.25 ± 22.27	0.9558
20F28488	12.4 %	✓	606.04 ± 22.77	647.96 ± 25.71	0.9456
20F28489	13.6 %	✓	489.96 ± 19.31	571.64 ± 24.16	0.9308
20F28491	14.9 %	✓	392.89 ± 14.66	510.47 ± 20.82	0.9132
20F28492	16.2 %	✓	360.79 ± 15.36	490.84 ± 23.08	0.9031
20F28493	17.6 %	✓	337.32 ± 18.87	476.61 ± 29.72	0.8946
20F28495	19.0 %	✓	342.23 ± 22.54	485.27 ± 35.63	0.8947

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron Error Chron	269.88 ± 12.28 ± 4.55%		0.61997 ± 0.01000 ± 1.61%	1.88 ± 0.03 ± 1.61% Full External Error ± 0.10 Analytical Error ± 0.03	2.58 0%
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	1.85 1.6071 13	Convergence Number of Iterations Calculated Line	0.000005866961 21 Weighted York-2	

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F28457	0.4 %		0.0966133 ± 0.0026817	0.00334919 ± 0.00012901	0.5007
20F28459	0.5 %		0.1345457 ± 0.0089451	0.00325033 ± 0.00031662	0.5513
20F28460	0.6 %		0.1313867 ± 0.0026916	0.00325492 ± 0.00010409	0.5112
20F28461	0.7 %		0.2865228 ± 0.0112381	0.00321598 ± 0.00020471	0.5855
20F28463	0.9 %		0.4653509 ± 0.0811388	0.00285652 ± 0.00085334	0.5721
20F28464	1.1 %		0.3520296 ± 0.0156889	0.00308319 ± 0.00022948	0.5781
20F28465	1.3 %		0.5924817 ± 0.0590226	0.00258445 ± 0.00047484	0.5354
20F28467	1.5 %		0.7027735 ± 0.0370324	0.00241417 ± 0.00025082	0.5029
20F28468	1.8 %		0.6707503 ± 0.0101352	0.00244039 ± 0.00007674	0.4737
20F28469	2.2 %		0.8312030 ± 0.0126714	0.00193797 ± 0.00007436	0.3933
20F28471	2.6 %		0.9364137 ± 0.0141499	0.00159825 ± 0.00006903	0.3468
20F28472	3.1 %		0.9304579 ± 0.0077497	0.00148271 ± 0.00004074	0.2980
20F28473	3.6 %		1.0454537 ± 0.0074656	0.00114866 ± 0.00003469	0.2321
20F28475	4.1 %		1.1487009 ± 0.0076324	0.00090166 ± 0.00003080	0.1909
20F28476	4.7 %		1.1985227 ± 0.0081071	0.00079434 ± 0.00003094	0.1704
20F28477	5.3 %		1.2551797 ± 0.0067957	0.00073700 ± 0.00002544	0.1527
20F28479	6.0 %	✓	1.2444293 ± 0.0056492	0.00078500 ± 0.00002224	0.1545
20F28480	6.8 %	✓	1.3124713 ± 0.0067773	0.00068882 ± 0.00002393	0.1443
20F28481	7.5 %	✓	1.3146777 ± 0.0073769	0.00070458 ± 0.00002564	0.1504
20F28483	8.3 %	✓	1.2918746 ± 0.0078923	0.00077437 ± 0.00002974	0.1558
20F28484	9.1 %	✓	1.1981107 ± 0.0088104	0.00097801 ± 0.00003549	0.1993
20F28485	10.1 %	✓	1.1321498 ± 0.0096774	0.00113893 ± 0.00004237	0.2267
20F28487	11.2 %	✓	0.9678112 ± 0.0092277	0.00145508 ± 0.00004716	0.2902
20F28488	12.4 %	✓	0.9353060 ± 0.0120806	0.00154332 ± 0.00006125	0.3220
20F28489	13.6 %	✓	0.8571036 ± 0.0132467	0.00174934 ± 0.00007394	0.3619
20F28491	14.9 %	✓	0.7696589 ± 0.0127964	0.00195897 ± 0.00007991	0.4035
20F28492	16.2 %	✓	0.7350552 ± 0.0148412	0.00203734 ± 0.00009579	0.4251
20F28493	17.6 %	✓	0.7077473 ± 0.0197235	0.00209814 ± 0.00013084	0.4421
20F28495	19.0 %	✓	0.7052349 ± 0.0231298	0.00206069 ± 0.00015131	0.4419

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron Error Chron	269.64 ± 12.62 ± 4.68%		0.62087 ± 0.01023 ± 1.65%	1.89 ± 0.03 ± 1.65%	2.71 0%
			Full External Error ± 0.10 Analytical Error ± 0.03		
Statistics	2σ Confidence Limit	1.85	Convergence	0.0018703866	
	Error Magnification	1.6468	Number of Iterations	3	
	Number of Data Points	13	Calculated Line	Weighted York-2	
	Spreading Factor	37.8%			

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
20F28457	0.4 %	0.0402684	1.54	0.0000000	0.00	0.0002302	1.48	0.0000002	231.78	0.8516	1.47	0.0075906	1.55	0.0000000	0.00	0.0140288	0.77	0.0001533	9.74	0.0044860	231.78	1.16161	0.77	0.0005472	1.73	0.95798	34.85	11.06535	2.74	0.0000000	0.00	0.0007051	9.68
20F28459	0.5 %	0.0151158	3.85	0.0000000	0.00	0.0001307	2.78	0.0000004	96.70	0.4837	2.78	0.0028493	3.85	0.0000000	0.00	0.0075567	1.46	0.0000871	10.02	0.0110989	96.71	0.62571	1.46	0.0003108	2.92	0.49687	46.65	4.15368	4.47	0.0000000	0.00	0.0003798	9.76
20F28460	0.6 %	0.0494277	1.31	0.0000000	0.00	0.0004241	0.87	0.0000004	91.58	1.5690	0.85	0.0093171	1.32	0.0000000	0.00	0.0240957	0.47	0.0002824	9.67	0.0118650	91.58	1.99518	0.46	0.0010081	1.25	1.60328	23.84	13.58224	2.62	0.0000000	0.00	0.0012111	9.66
20F28461	0.7 %	0.0233687	2.54	0.0000000	0.00	0.0004975	0.75	0.0000004	96.81	1.8406	0.73	0.0044050	2.55	0.0000000	0.00	0.0251443	0.45	0.0003313	9.66	0.0106113	96.81	2.08200	0.44	0.0011826	1.17	0.84495	30.69	6.42148	3.41	0.0000000	0.00	0.0012638	9.66
20F28463	0.9 %	0.0045992	12.19	0.0000000	0.00	0.0002086	1.63	0.0000002	199.40	0.7717	1.62	0.0008669	12.19	0.0000000	0.00	0.0090486	1.23	0.0001389	9.77	0.0052903	199.40	0.74924	1.23	0.0004958	1.86	0.34626	60.49	1.26381	12.40	0.0000000	0.00	0.0004548	9.73
20F28464	1.1 %	0.0195619	3.01	0.0000000	0.00	0.0005844	0.66	0.0000007	58.18	2.1621	0.64	0.0036874	3.01	0.0000000	0.00	0.0269742	0.42	0.0003892	9.65	0.0193807	58.19	2.23352	0.41	0.0013892	1.12	0.96927	25.35	5.37542	3.77	0.0000000	0.00	0.0013557	9.66
20F28465	1.3 %	0.0072505	7.74	0.0000000	0.00	0.0005097	0.74	0.0000002	188.63	1.8858	0.72	0.0013667	7.74	0.0000000	0.00	0.0200739	0.56	0.0003395	9.66	0.0055745	188.64	1.66216	0.56	0.0012117	1.17	0.81306	26.12	1.99236	8.06	0.0000000	0.00	0.0010089	9.67
20F28467	1.5 %	0.0127994	4.48	0.0000000	0.00	0.0011357	0.38	0.0000004	90.97	4.2016	0.34	0.0024127	4.49	0.0000000	0.00	0.0449982	0.26	0.0007563	9.64	0.0116174	90.97	3.72594	0.24	0.0026995	0.98	1.78462	12.60	3.51714	5.03	0.0000000	0.00	0.0022616	9.65
20F28468	1.8 %	0.0451688	1.38	0.0000000	0.00	0.0037487	0.24	0.0000016	24.88	13.8688	0.17	0.0085143	1.39	0.0000000	0.00	0.1499337	0.13	0.0024964	9.63	0.0440274	24.90	12.41481	0.09	0.0089107	0.93	6.09690	5.87	12.41195	2.66	0.0000000	0.00	0.0075358	9.65
20F28469	2.2 %	0.0355416	1.76	0.0000000	0.00	0.0051606	0.23	0.0000016	25.26	19.0920	0.15	0.0066996	1.77	0.0000000	0.00	0.1841012	0.12	0.0034366	9.63	0.0423093	25.28	15.24395	0.08	0.0122666	0.93	8.57313	3.65	9.76649	2.87	0.0000000	0.00	0.0092531	9.65
20F28471	2.6 %	0.0295744	2.02	0.0000000	0.00	0.0061337	0.23	0.0000008	50.47	22.6924	0.15	0.0055748	2.03	0.0000000	0.00	0.2092662	0.11	0.0040846	9.63	0.0214949	50.48	17.32767	0.07	0.0145798	0.93	10.37753	2.73	8.12676	3.04	0.0000000	0.00	0.0105179	9.65
20F28472	3.1 %	0.0499386	1.31	0.0000000	0.00	0.0112667	0.22	0.0000001	333.63	41.6822	0.14	0.0094134	1.32	0.0000000	0.00	0.3784745	0.10	0.0075028	9.63	0.0031094	333.64	31.33845	0.05	0.0267808	0.93	19.95805	1.93	13.72262	2.62	0.0000000	0.00	0.0190224	9.65
20F28473	3.6 %	0.0452190	1.47	0.0000000	0.00	0.0144278	0.22	0.0000000	0.00	53.3771	0.14	0.0085238	1.48	0.0000000	0.00	0.4970406	0.10	0.0096079	9.63	0.0000000	0.00	41.15596	0.05	0.0342948	0.93	26.94089	1.35	12.42572	2.70	0.0000000	0.00	0.0249817	9.65
20F28475	4.1 %	0.0380838	1.68	0.0000000	0.00	0.0166516	0.22	0.0000000	0.00	61.6042	0.14	0.0071788	1.68	0.0000000	0.00	0.5859574	0.10	0.0110888	9.63	0.0000000	0.00	48.51846	0.04	0.0395807	0.93	31.77262	1.03	10.46506	2.82	0.0000000	0.00	0.0294507	9.65
20F28476	4.7 %	0.0329728	1.92	0.0000000	0.00	0.0167960	0.22	0.0000000	0.00	62.1385	0.14	0.0062154	1.93	0.0000000	0.00	0.6008373	0.10	0.0111849	9.63	0.0000000	0.00	49.75055	0.05	0.0399240	0.93	32.44930	0.93	9.06059	2.97	0.0000000	0.00	0.0301986	9.65
20F28477	5.3 %	0.0383925	1.71	0.0000000	0.00	0.0220886	0.22	0.0000000	0.00	81.7190	0.14	0.0072370	1.71	0.0000000	0.00	0.7896692	0.10	0.0147094	9.63	0.0000000	0.00	65.38621	0.04	0.0525044	0.93	41.54323	0.79	10.54987	2.84	0.0000000	0.00	0.0396894	9.65
20F28479	6.0 %	✓ 0.0490916	1.40	0.0000000	0.00	0.0265047	0.22	0.0000000	0.00	98.0567	0.14	0.0092538	1.41	0.0000000	0.00	0.9398634	0.10	0.0176502	9.63	0.0000000	0.00	77.82258	0.04	0.0630015	0.93	49.04688	0.79	13.48988	2.67	0.0000000	0.00	0.0472383	9.65
20F28480	6.8 %	✓ 0.0377454	1.72	0.0000000	0.00	0.0245047	0.22	0.0000000	0.00	90.6576	0.14	0.0071150	1.73	0.0000000	0.00	0.8685716	0.10	0.0163184	9.63	0.0000000	0.00	71.91948	0.04	0.0582475	0.93	44.42493	0.74	10.37206	2.85	0.0000000	0.00	0.0436551	9.65
20F28481	7.5 %	✓ 0.0354305	1.80	0.0000000	0.00	0.0229426	0.22	0.0000000	0.00	84.8785	0.14	0.0066786	1.81	0.0000000	0.00	0.7984125	0.10	0.0152781	9.63	0.0000000	0.00	66.11017	0.04	0.0545344	0.93	40.55028	0.78	9.73594	2.90	0.0000000	0.00	0.0401289	9.65
20F28483	8.3 %	✓ 0.0357455	1.90	0.0000000	0.00	0.0216833	0.22	0.0000000	0.00	80.2196	0.14	0.0067380	1.90	0.0000000	0.00	0.7201967	0.10	0.0144395	9.63	0.0000000	0.00	59.63374	0.04	0.0515411	0.93	36.33813	0.89	9.82250	2.96	0.0000000	0.00	0.0361977	9.65
20F28484	9.1 %	✓ 0.0372590	1.78	0.0000000	0.00	0.0180185	0.22	0.0000000	0.00	66.6610	0.14	0.0070233	1.78	0.0000000	0.00	0.5512468	0.10	0.0119990	9.63	0.0000000	0.00	45.64435	0.05	0.0428297	0.93	27.85852	1.17	10.23841	2.88	0.0000000	0.00	0.0277061	9.65
20F28485	10.1 %	✓ 0.0373661	1.81	0.0000000	0.00	0.0176272	0.22	0.0000002	198.54	65.2135	0.14	0.0070435	1.82	0.0000000	0.00	0.4485851	0.10	0.0117384	9.63	0.0052469	198.55	37.14376	0.05	0.0418997	0.93	22.54034	1.46	10.26783	2.90	0.0000000	0.00	0.0225463	9.65
20F28487	11.2 %	✓ 0.0427567	1.55	0.0000000	0.00	0.0153501	0.22	0.0000001	632.62	56.7891	0.14	0.0080596	1.56	0.0000000	0.00	0.3434520	0.11	0.0102220	9.63	0.0017586	632.62	28.43852	0.06	0.0364870	0.93	17.63526	1.99	11.74911	2.75	0.0000000	0.00	0.0172622	9.65
20F28488	12.4 %	✓ 0.0334204	1.88	0.0000000	0.00	0.0122384	0.22	0.0000000	0.00	45.2773	0.14	0.0062997	1.88	0.0000000	0.00	0.2446074	0.11	0.0081499	9.63	0.0000000	0.00	20.25399	0.07	0.0290906	0.93	12.47134	2.44	9.18360	2.95	0.0000000	0.00	0.0122942	9.65
20F28489	13.6 %	✓ 0.0316224	1.97	0.0000000	0.00	0.0107959	0.22	0.0000004	90.17	39.9406	0.14	0.0059608	1.97	0.0000000	0.00	0.1871168	0.12	0.0071893	9.63	0.0117459	90.17	15.49365	0.08	0.0256618	0.93	9.38723	3.15	8.68953	3.00	0.0000000	0.00	0.0094046	9.65
20F28491	14.9 %	✓ 0.0329313	1.86	0.0000000	0.00	0.0105960	0.22	0.0000006	65.64	39.2011	0.14	0.0062075	1.87	0.0000000	0.00	0.1562567	0.12	0.0070562	9.63	0.0161637	65.64	12.93837	0.08	0.0251867	0.93	7.76135	3.87	9.04918	2.94	0.0000000	0.00	0.0078536	9.65
20F28492	16.2 %	✓ 0.0281863	2.13	0.0000000	0.00	0.0092614	0.22	0.0000002	222.21	34.2633	0.14	0.0053131	2.13	0.0000000	0.00	0.1228158	0.14	0.0061674	9.63	0.0045178	222.21	10.16940	0.10	0.0220142	0.93	6.08956	4.57	7.74532	3.11	0.0000000	0.00	0.0061728	9.65
20F28493	17.6 %	✓ 0.0210658	2.79	0.0000000	0.00	0.0066470	0.22	0.0000005	84.09	24.5912	0.15	0.0039709	2.80	0.0000000	0.00	0.0858182	0.17	0.0044264	9.63	0.0122815	84.09	7.10592	0.14	0.0157998	0.93	4.25154	5.89	5.78866	3.60	0.0000000	0.00	0.0043133	9.65
20F28495	19.0 %	✓ 0.0175495	3.29	0.0000000	0.00	0.0053537	0.23	0.0000000	0.00	19.8065	0.15	0.0033081	3.29	0.0000000	0.00	0.0725345	0.19	0.0035652	9.63	0.0000000	0.00	6.00600	0.17	0.0127257	0.93	3.69389	6.43	4.82243	4.00	0.0000000	0.00	0.0036456	9.65
Σ		0.9274537	0.36	0.0000000	0.00	0.3015186	0.05	0.0000089	18.59	1115.4961	0.03	0.1748250	0.36	0.0000000	0.00	9.1066783	0.03	0.2007893	2.30	0.2425795	18.58	754.05136	0.01	0.7167062	0.22	467.57717	0.35	254.85499	0.58	0.0000000	0.00	0.4577092	2.46
Σ								1.2289812	0.27	1115.4961	0.03								9.7248722	0.47			754.76807	0.01									

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F28457	0.4 %	10.346274	0.143567	0.732799	0.012153	0.034848	0.000597	22.552	1.565048	1.00016002	4.257E-13
20F28459	0.5 %	7.429338	0.246925	0.772632	0.024218	0.024355	0.000994	22.570	1.565607	1.00016015	1.646E-13
20F28460	0.6 %	7.607882	0.077915	0.785991	0.007597	0.024974	0.000344	22.579	1.565886	1.00016021	5.376E-13
20F28461	0.7 %	3.488749	0.068405	0.883565	0.007514	0.011457	0.000290	22.588	1.566165	1.00016028	2.573E-13
20F28463	0.9 %	2.148102	0.187218	1.029266	0.020915	0.006413	0.000752	22.606	1.566724	1.00016040	5.701E-14
20F28464	1.1 %	2.839511	0.063260	0.967423	0.007373	0.009015	0.000266	22.616	1.567025	1.00016047	2.247E-13
20F28465	1.3 %	1.687193	0.084008	1.133743	0.010332	0.004665	0.000338	22.625	1.567304	1.00016054	9.935E-14
20F28467	1.5 %	1.422510	0.037463	1.126846	0.004672	0.003737	0.000154	22.643	1.567863	1.00016066	1.878E-13
20F28468	1.8 %	1.490405	0.011255	1.116315	0.002104	0.003938	0.000050	22.652	1.568143	1.00016073	6.555E-13
20F28469	2.2 %	1.202715	0.009163	1.251427	0.002147	0.002668	0.000041	22.661	1.568422	1.00016079	6.496E-13
20F28471	2.6 %	1.067613	0.008061	1.308501	0.002162	0.002059	0.000035	22.679	1.568982	1.00016092	6.554E-13
20F28472	3.1 %	1.074428	0.004471	1.328929	0.001991	0.001951	0.000021	22.688	1.569262	1.00016098	1.193E-12
20F28473	3.6 %	0.956333	0.003412	1.295867	0.001902	0.001448	0.000016	22.697	1.569541	1.00016105	1.394E-12
20F28475	4.1 %	0.870446	0.002889	1.268672	0.001861	0.001127	0.000013	22.716	1.570123	1.00016118	1.496E-12
20F28476	4.7 %	0.834298	0.002819	1.248000	0.001803	0.001000	0.000013	22.725	1.570403	1.00016124	1.471E-12
20F28477	5.3 %	0.796666	0.002154	1.248787	0.001800	0.000924	0.000010	22.734	1.570683	1.00016131	1.846E-12
20F28479	6.0 %	✓0.803538	0.001822	1.258984	0.001802	0.000971	0.000009	22.752	1.571243	1.00016143	2.215E-12
20F28480	6.8 %	✓0.761911	0.001965	1.259523	0.001798	0.000865	0.000009	22.761	1.571523	1.00016150	1.941E-12
20F28481	7.5 %	✓0.760622	0.002131	1.282836	0.001840	0.000882	0.000010	22.770	1.571804	1.00016156	1.782E-12
20F28483	8.3 %	✓0.774007	0.002362	1.344043	0.001942	0.000962	0.000011	22.788	1.572364	1.00016169	1.635E-12
20F28484	9.1 %	✓0.834471	0.003065	1.459075	0.002125	0.001210	0.000014	22.798	1.572666	1.00016176	1.350E-12
20F28485	10.1 %	✓0.882886	0.003770	1.753728	0.002552	0.001479	0.000018	22.807	1.572947	1.00016182	1.162E-12
20F28487	11.2 %	✓1.032542	0.004919	1.994347	0.002960	0.002041	0.000023	22.825	1.573508	1.00016195	1.041E-12
20F28488	12.4 %	✓1.068242	0.006895	2.232267	0.003425	0.002251	0.000031	22.834	1.573788	1.00016201	7.670E-13
20F28489	13.6 %	✓1.165397	0.009001	2.573605	0.004134	0.002733	0.000040	22.843	1.574069	1.00016208	6.403E-13
20F28491	14.9 %	✓1.297358	0.010780	3.023943	0.004949	0.003358	0.000047	22.861	1.574631	1.00016220	5.954E-13
20F28492	16.2 %	✓1.358109	0.013704	3.361976	0.005878	0.003674	0.000059	22.870	1.574911	1.00016227	4.900E-13
20F28493	17.6 %	✓1.410405	0.019644	3.452983	0.007102	0.003891	0.000083	22.879	1.575192	1.00016233	3.556E-13
20F28495	19.0 %	✓1.415575	0.023203	3.290804	0.007526	0.003805	0.000096	22.898	1.575776	1.00016246	3.016E-13



Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F28457	0.4 %	0.0176573 ± 0.0004656	0.0195649 ± 0.0057501	0.0101168 ± 0.0075872	0.0141750 ± 0.0067130	5.2529928 ± 0.1380823
20F28459	0.5 %	0.0171165 ± 0.0004656	0.0207690 ± 0.0057501	0.0087028 ± 0.0075872	0.0111857 ± 0.0067130	5.1156271 ± 0.1380823
20F28460	0.6 %	0.0169152 ± 0.0004656	0.0213638 ± 0.0057501	0.0081047 ± 0.0075872	0.0102721 ± 0.0067130	5.0571240 ± 0.1380823
20F28461	0.7 %	0.0167530 ± 0.0004656	0.0219454 ± 0.0057501	0.0075864 ± 0.0075872	0.0096790 ± 0.0067130	5.0048838 ± 0.1380823
20F28463	0.9 %	0.0165265 ± 0.0004656	0.0230461 ± 0.0057501	0.0068031 ± 0.0075872	0.0092708 ± 0.0067130	4.9176924 ± 0.1380823
20F28464	1.1 %	0.0164485 ± 0.0004656	0.0235922 ± 0.0057501	0.0065254 ± 0.0075872	0.0093856 ± 0.0067130	4.8794817 ± 0.1380823
20F28465	1.3 %	0.0163979 ± 0.0004656	0.0240632 ± 0.0057501	0.0063582 ± 0.0075872	0.0096475 ± 0.0067130	4.8489915 ± 0.1380823
20F28467	1.5 %	0.0163447 ± 0.0004656	0.0248831 ± 0.0057501	0.0062791 ± 0.0075872	0.0104811 ± 0.0067130	4.8010994 ± 0.1380823
20F28468	1.8 %	0.0163355 ± 0.0004656	0.0252242 ± 0.0057501	0.0063605 ± 0.0075872	0.0109918 ± 0.0067130	4.7830753 ± 0.1380823
20F28469	2.2 %	0.0163340 ± 0.0004656	0.0255147 ± 0.0057501	0.0065162 ± 0.0075872	0.0115294 ± 0.0067130	4.7686043 ± 0.1380823
20F28471	2.6 %	0.0163442 ± 0.0004656	0.0259318 ± 0.0057501	0.0070230 ± 0.0075872	0.0125951 ± 0.0067130	4.7492089 ± 0.1380823
20F28472	3.1 %	0.0163516 ± 0.0004656	0.0260534 ± 0.0057501	0.0073575 ± 0.0075872	0.0130854 ± 0.0067130	4.7437579 ± 0.1380823
20F28473	3.6 %	0.0163583 ± 0.0004656	0.0261140 ± 0.0057501	0.0077327 ± 0.0075872	0.0135271 ± 0.0067130	4.7408068 ± 0.1380823
20F28475	4.1 %	0.0163637 ± 0.0004656	0.0260385 ± 0.0057501	0.0085907 ± 0.0075872	0.0142416 ± 0.0067130	4.7416667 ± 0.1380823
20F28476	4.7 %	0.0163603 ± 0.0004656	0.0259026 ± 0.0057501	0.0090135 ± 0.0075872	0.0144730 ± 0.0067130	4.7449963 ± 0.1380823
20F28477	5.3 %	0.0163522 ± 0.0004656	0.0257011 ± 0.0057501	0.0094222 ± 0.0075872	0.0146263 ± 0.0067130	4.7499494 ± 0.1380823
20F28479	6.0 %	0.0163213 ± 0.0004656	0.0250999 ± 0.0057501	0.0101286 ± 0.0075872	0.0147024 ± 0.0067130	4.7640001 ± 0.1380823
20F28480	6.8 %	0.0162990 ± 0.0004656	0.0247008 ± 0.0057501	0.0103893 ± 0.0075872	0.0146341 ± 0.0067130	4.7727642 ± 0.1380823
20F28481	7.5 %	0.0162729 ± 0.0004656	0.0242367 ± 0.0057501	0.0105613 ± 0.0075872	0.0145057 ± 0.0067130	4.7824852 ± 0.1380823
20F28483	8.3 %	0.0162132 ± 0.0004656	0.0231184 ± 0.0057501	0.0105508 ± 0.0075872	0.0141185 ± 0.0067130	4.8042628 ± 0.1380823
20F28484	9.1 %	0.0161802 ± 0.0004656	0.0224148 ± 0.0057501	0.0102961 ± 0.0075872	0.0138742 ± 0.0067130	4.8170120 ± 0.1380823
20F28485	10.1 %	0.0161513 ± 0.0004656	0.0217007 ± 0.0057501	0.0098677 ± 0.0075872	0.0136530 ± 0.0067130	4.8293456 ± 0.1380823
20F28487	11.2 %	0.0161081 ± 0.0004656	0.0201072 ± 0.0057501	0.0083454 ± 0.0075872	0.0133249 ± 0.0067130	4.8550956 ± 0.1380823
20F28488	12.4 %	0.0160988 ± 0.0004656	0.0192339 ± 0.0057501	0.0071937 ± 0.0075872	0.0132738 ± 0.0067130	4.8683718 ± 0.1380823
20F28489	13.6 %	0.0161017 ± 0.0004656	0.0183139 ± 0.0057501	0.0057412 ± 0.0075872	0.0133401 ± 0.0067130	4.8818419 ± 0.1380823
20F28491	14.9 %	0.0161573 ± 0.0004656	0.0163498 ± 0.0057501	0.0018039 ± 0.0075872	0.0139676 ± 0.0067130	4.9092154 ± 0.1380823
20F28492	16.2 %	0.0162175 ± 0.0004656	0.0153143 ± 0.0057501	0.0007487 ± 0.0075872	0.0146078 ± 0.0067130	4.9230741 ± 0.1380823
20F28493	17.6 %	0.0163048 ± 0.0004656	0.0142496 ± 0.0057501	0.0037380 ± 0.0075872	0.0155230 ± 0.0067130	4.9370379 ± 0.1380823
20F28495	19.0 %	0.0165922 ± 0.0004656	0.0119677 ± 0.0057501	0.0115046 ± 0.0075872	0.0185085 ± 0.0067130	4.9664222 ± 0.1380823

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)
20F28457	0.4 %	0.0559256 ± 0.0003507	0.0068	EXP	150 of 150	0.526015 ± 0.005549	0.5552	EXP	149 of 150	0.0161878 ± 0.0071341	0.0019	EXP	150 of 150	1.1771625 ± 0.0058455	0.5950	EXP	150 of 150	17.277024 ± 0.016733	0.9866	EXP	150 of 150
20F28459	0.5 %	0.0315237 ± 0.0002908	0.4346	EXP	149 of 150	0.288983 ± 0.006377	0.1697	EXP	150 of 150	0.0129269 ± 0.0076156	0.0039	EXP	150 of 150	0.6376526 ± 0.0061790	0.0627	EXP	150 of 150	9.766553 ± 0.015395	0.9939	EXP	150 of 150
20F28460	0.6 %	0.0640218 ± 0.0003910	0.0326	EXP	148 of 150	0.983235 ± 0.006170	0.7303	EXP	150 of 150	0.0375351 ± 0.0078016	0.0048	EXP	150 of 150	2.0078755 ± 0.0062305	0.8720	EXP	150 of 150	20.243853 ± 0.015518	0.9756	EXP	149 of 150
20F28461	0.7 %	0.0393051 ± 0.0003125	0.2270	EXP	150 of 150	1.156372 ± 0.006193	0.7982	EXP	147 of 150	0.0329762 ± 0.0069491	0.0041	EXP	149 of 150	2.0943405 ± 0.0061127	0.8913	EXP	150 of 150	12.272576 ± 0.015165	0.9921	EXP	149 of 150
20F28463	0.9 %	0.0210697 ± 0.0002526	0.6675	EXP	150 of 150	0.470787 ± 0.005532	0.4464	EXP	150 of 150	0.0085685 ± 0.0073534	0.0012	EXP	149 of 150	0.7595434 ± 0.0062713	0.1715	EXP	150 of 150	6.528209 ± 0.015691	0.9944	EXP	150 of 150
20F28464	1.1 %	0.0354860 ± 0.0003028	0.2737	EXP	149 of 150	1.359768 ± 0.006473	0.8355	EXP	150 of 150	0.0439942 ± 0.0083636	0.0128	EXP	149 of 150	2.2458840 ± 0.0063182	0.9069	EXP	148 of 150	11.225532 ± 0.015208	0.9913	EXP	148 of 150
20F28465	1.3 %	0.0237310 ± 0.0002533	0.6088	EXP	149 of 150	1.182322 ± 0.006328	0.7990	EXP	150 of 150	0.0210442 ± 0.0073050	0.0014	EXP	149 of 150	1.6742052 ± 0.0063684	0.8059	EXP	150 of 150	7.655426 ± 0.014663	0.9944	EXP	149 of 150
20F28467	1.5 %	0.0295127 ± 0.0002771	0.4529	EXP	150 of 150	2.661956 ± 0.006003	0.9525	EXP	149 of 150	0.0536099 ± 0.0073785	0.0000	EXP	150 of 150	3.7417726 ± 0.0058541	0.9728	EXP	148 of 150	10.105128 ± 0.016766	0.9899	EXP	150 of 150
20F28468	1.8 %	0.0625605 ± 0.0003547	0.0650	EXP	148 of 150	8.842003 ± 0.006634	0.9951	EXP	149 of 150	0.1989692 ± 0.0078980	0.0652	EXP	150 of 150	12.4435468 ± 0.0074811	0.9966	EXP	149 of 150	23.299456 ± 0.014520	0.9226	EXP	149 of 150
20F28469	2.2 %	0.0547960 ± 0.0003602	0.0568	EXP	149 of 150	12.179100 ± 0.007453	0.9966	EXP	150 of 150	0.2304436 ± 0.0075147	0.1264	EXP	150 of 150	15.2785885 ± 0.0074163	0.9978	EXP	147 of 150	23.117479 ± 0.016682	0.9136	EXP	150 of 150
20F28471	2.6 %	0.0500865 ± 0.0003167	0.1422	EXP	148 of 150	14.475016 ± 0.008111	0.9972	EXP	150 of 150	0.2338174 ± 0.0077447	0.0540	EXP	150 of 150	17.3671667 ± 0.0075963	0.9982	EXP	149 of 150	23.264014 ± 0.017592	0.8772	EXP	150 of 150
20F28472	3.1 %	0.0741861 ± 0.0003962	0.1015	EXP	150 of 150	26.605081 ± 0.009962	0.9988	EXP	150 of 150	0.3918385 ± 0.0069895	0.1724	EXP	149 of 150	31.4006050 ± 0.0095653	0.9991	EXP	150 of 150	38.443457 ± 0.016554	0.9655	EXP	150 of 150
20F28473	3.6 %	0.0727199 ± 0.0004102	0.0684	EXP	150 of 150	34.070933 ± 0.011912	0.9989	EXP	150 of 150	0.4931088 ± 0.0081905	0.2915	EXP	150 of 150	41.2330516 ± 0.0099082	0.9995	EXP	150 of 150	44.132394 ± 0.017869	0.9817	EXP	150 of 150
20F28475	4.1 %	0.0680845 ± 0.0003733	0.0068	EXP	149 of 150	39.311884 ± 0.015609	0.9986	EXP	150 of 150	0.5616978 ± 0.0077832	0.3305	EXP	150 of 150	48.6067761 ± 0.0086713	0.9997	EXP	150 of 150	47.008798 ± 0.015955	0.9899	EXP	150 of 150
20F28476	4.7 %	0.0633880 ± 0.0003661	0.0900	EXP	148 of 150	39.646120 ± 0.011584	0.9992	EXP	150 of 150	0.5606100 ± 0.0066137	0.4542	EXP	148 of 150	49.8403091 ± 0.0102313	0.9996	EXP	150 of 150	46.285087 ± 0.016433	0.9877	EXP	148 of 150
20F28477	5.3 %	0.0735023 ± 0.0003948	0.0068	EXP	150 of 150	52.138086 ± 0.016627	0.9991	EXP	150 of 150	0.7539712 ± 0.0077180	0.4950	EXP	149 of 150	65.4998124 ± 0.0117760	0.9997	EXP	150 of 150	56.882741 ± 0.016678	0.9952	EXP	149 of 150
20F28479	6.0 %	0.0877541 ± 0.0004348	0.1026	EXP	150 of 150	62.545269 ± 0.018283	0.9992	EXP	150 of 150	0.8933939 ± 0.0074623	0.6093	EXP	149 of 150	77.9555946 ± 0.0121469	0.9998	EXP	150 of 150	67.348003 ± 0.018597	0.9969	EXP	150 of 150
20F28480	6.8 %	0.0751207 ± 0.0003847	0.0425	EXP	150 of 150	57.813921 ± 0.014532	0.9994	EXP	148 of 150	0.8438118 ± 0.0079148	0.5854	EXP	150 of 150	72.0434696 ± 0.0132072	0.9997	EXP	150 of 150	59.613412 ± 0.018730	0.9950	EXP	150 of 150
20F28481	7.5 %	0.0714310 ± 0.0003688	0.0000	EXP	149 of 150	54.117717 ± 0.015466	0.9993	EXP	150 of 150	0.7624154 ± 0.0074719	0.5547	EXP	150 of 150	66.2261845 ± 0.0117580	0.9997	EXP	150 of 150	55.108831 ± 0.018291	0.9932	EXP	150 of 150
20F28483	8.3 %	0.0704791 ± 0.0004293	0.0038	EXP	150 of 150	51.128792 ± 0.016775	0.9990	EXP	148 of 150	0.7136570 ± 0.0070655	0.5469	EXP	147 of 150	59.7417672 ± 0.0105204	0.9997	EXP	150 of 150	51.001087 ± 0.019686	0.9893	EXP	150 of 150
20F28484	9.1 %	0.0684132 ± 0.0004085	0.0036	EXP	150 of 150	42.475744 ± 0.014059	0.9990	EXP	150 of 150	0.5441613 ± 0.0076526	0.3225	EXP	150 of 150	45.7334768 ± 0.0098832	0.9996	EXP	150 of 150	42.941652 ± 0.015106	0.9852	EXP	148 of 150
20F28485	10.1 %	0.0681160 ± 0.0004292	0.0137	EXP	150 of 150	41.546228 ± 0.011679	0.9993	EXP	147 of 150	0.4635717 ± 0.0069699	0.3080	EXP	147 of 150	37.2256988 ± 0.0093524	0.9994	EXP	150 of 150	37.660055 ± 0.017990	0.9456	EXP	150 of 150
20F28487	11.2 %	0.0710147 ± 0.0004087	0.0140	EXP	150 of 150	36.165050 ± 0.011386	0.9991	EXP	150 of 150	0.3557817 ± 0.0080487	0.1899	EXP	149 of 150	28.5085370 ± 0.0089359	0.9991	EXP	150 of 150	34.256725 ± 0.017034	0.9189	EXP	150 of 150
20F28488	12.4 %	0.0592430 ± 0.0003599	0.0286	EXP	150 of 150	28.825629 ± 0.009217	0.9991	EXP	150 of 150	0.2515933 ± 0.0076193	0.0608	EXP	150 of 150	20.3107460 ± 0.0085435	0.9983	EXP	150 of 150	26.535601 ± 0.016854	0.3675	EXP	150 of 150
20F28489	13.6 %	0.0561843 ± 0.0003533	0.0000	EXP	149 of 150	25.422171 ± 0.009542	0.9987	EXP	150 of 150	0.2066420 ± 0.0073623	0.0759	EXP	150 of 150	15.5436650 ± 0.0081583	0.9974	EXP	150 of 150	22.968003 ± 0.015633	0.8779	EXP	150 of 150
20F28491	14.9 %	0.0572879 ± 0.0003394	0.0005	EXP	149 of 150	24.944182 ± 0.009876	0.9986	EXP	150 of 150	0.1842045 ± 0.0073940	0.0826	EXP	150 of 150	12.9867213 ± 0.0067906	0.9975	EXP	147 of 150	21.727596 ± 0.016283	0.8958	EXP	150 of 150
20F28492	16.2 %	0.0516029 ± 0.0003167	0.0405	EXP	150 of 150	21.797299 ± 0.009280	0.9983	EXP	149 of 150	0.1398053 ± 0.0065625	0.0134	EXP	149 of 150	10.2132507 ± 0.0068146	0.9957	EXP	149 of 150	18.764128 ± 0.015548	0.9548	EXP	150 of 150
20F28493	17.6 %	0.0424917 ± 0.0003007	0.1986	EXP	149 of 150	15.638139 ± 0.007543	0.9979	EXP	150 of 150	0.1104211 ± 0.0070121	0.0492	EXP	150 of 150	7.1422965 ± 0.0073002	0.9895	EXP	147 of 150	14.981549 ± 0.017137	0.9742	EXP	150 of 150
20F28495	19.0 %	0.0382340 ± 0.0002818	0.2495	EXP	150 of 150	12.590258 ± 0.008003	0.9962	EXP	150 of 150	0.0870771 ± 0.0072647	0.0235	EXP	150 of 150	6.0415063 ± 0.0072511	0.9854	EXP	150 of 150	13.486385 ± 0.015162	0.9821	EXP	150 of 150

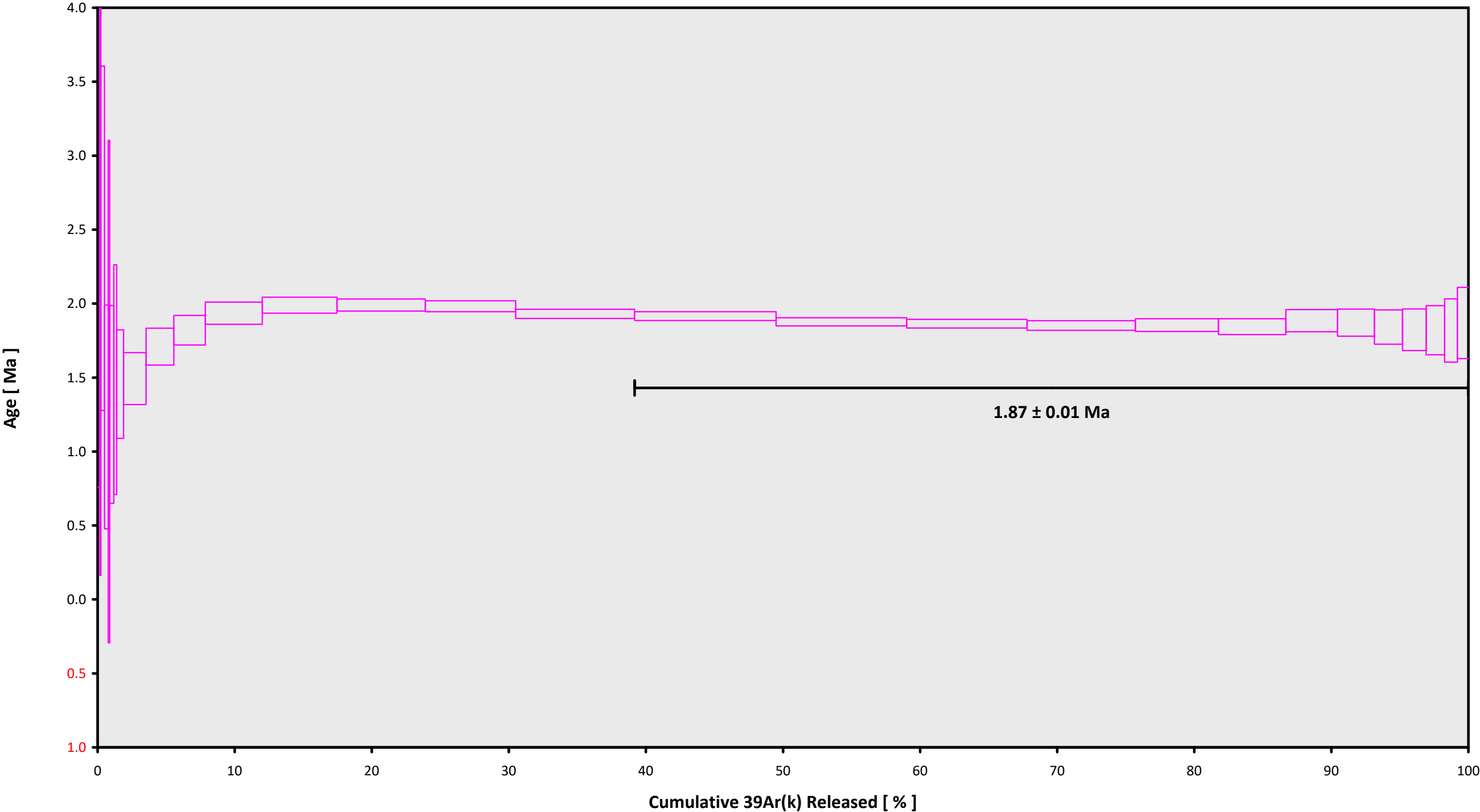


Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F28457	0.4 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28459	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28460	0.6 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28461	0.7 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28463	0.9 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28464	1.1 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28465	1.3 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28467	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28468	1.8 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28469	2.2 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28471	2.6 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28472	3.1 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28473	3.6 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28475	4.1 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28476	4.7 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28477	5.3 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28479	6.0 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28480	6.8 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28481	7.5 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28483	8.3 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28484	9.1 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28485	10.1 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28487	11.2 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28488	12.4 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28489	13.6 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28491	14.9 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28492	16.2 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28493	17.6 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	01
20F28495	19.0 %	Dan Miggins	20-OSU-04	0.00	0.00	3.11	Oregon\McCloughry (19-20)	20F28453	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
20F28457		0.4 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	4	51	1
20F28459		0.5 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	5	17	1
20F28460		0.6 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	5	30	1
20F28461		0.7 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	5	43	1
20F28463		0.9 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	6	9	1
20F28464		1.1 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	6	23	1
20F28465		1.3 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	6	36	1
20F28467		1.5 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	7	2	1
20F28468		1.8 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	7	15	1
20F28469		2.2 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	7	28	1
20F28471		2.6 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	7	54	1
20F28472		3.1 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	8	7	1
20F28473		3.6 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	8	20	1
20F28475		4.1 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	8	47	1
20F28476		4.7 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	9	0	1
20F28477		5.3 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	9	13	1
20F28479		6.0 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	9	39	1
20F28480		6.8 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	9	52	1
20F28481		7.5 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	10	5	1
20F28483		8.3 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	10	31	1
20F28484		9.1 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	10	45	1
20F28485		10.1 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	10	58	1
20F28487		11.2 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	11	24	1
20F28488		12.4 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	11	37	1
20F28489		13.6 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	11	50	1
20F28491		14.9 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	12	16	1
20F28492		16.2 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	12	29	1
20F28493		17.6 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	12	42	1
20F28495		19.0 %	178 DFWJ 15	Groundmass	Badger Lake	FCT-NM (4B3-20)	28.201	Kuiper et al (2008)	9.34733	0.048	0.00166095	0.048	297.522	0.115	1.00087333	0.039	1	3.54E-14	24	OCT	2020	13	9	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
20F28457	0.4 %	274.79	2.27	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
20F28459	0.5 %	274.79	2.27	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
20F28460	0.6 %	274.79	2.27	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
20F28461	0.7 %	274.79	2.27	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
20F28463	0.9 %	274.79	2.27	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
20F28464	1.1 %	274.79	2.27	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
20F28465	1.3 %	274.79	2.27	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
20F28467	1.5 %	274.79	2.27	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
20F28468	1.8 %	274.79	2.27	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
20F28469	2.2 %	274.79	2.27	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
20F28471	2.6 %	274.79	2.27	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
20F28472	3.1 %	274.79	2.27	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
20F28473	3.6 %	274.79	2.27	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
20F28475	4.1 %	274.79	2.27	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
20F28476	4.7 %	274.79	2.27	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
20F28477	5.3 %	274.79	2.27	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
20F28479	6.0 %	274.79	2.27	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
20F28480	6.8 %	274.79	2.27	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
20F28481	7.5 %	274.79	2.27	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
20F28483	8.3 %	274.79	2.27	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
20F28484	9.1 %	274.79	2.27	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
20F28485	10.1 %	274.79	2.27	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
20F28487	11.2 %	274.79	2.27	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
20F28488	12.4 %	274.79	2.27	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
20F28489	13.6 %	274.79	2.27	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
20F28491	14.9 %	274.79	2.27	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
20F28492	16.2 %	274.79	2.27	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
20F28493	17.6 %	274.79	2.27	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
20F28495	19.0 %	274.79	2.27	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

20F28453.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$1.87 \pm 0.01$

TOTAL FUSION

$1.88 \pm 0.01$

NORMAL ISOCHRON

$1.88 \pm 0.03$

INVERSE ISOCHRON

$1.89 \pm 0.03$

MSWD (PROBABILITY)

1.12 (34%)

Sample Info

Groundmass

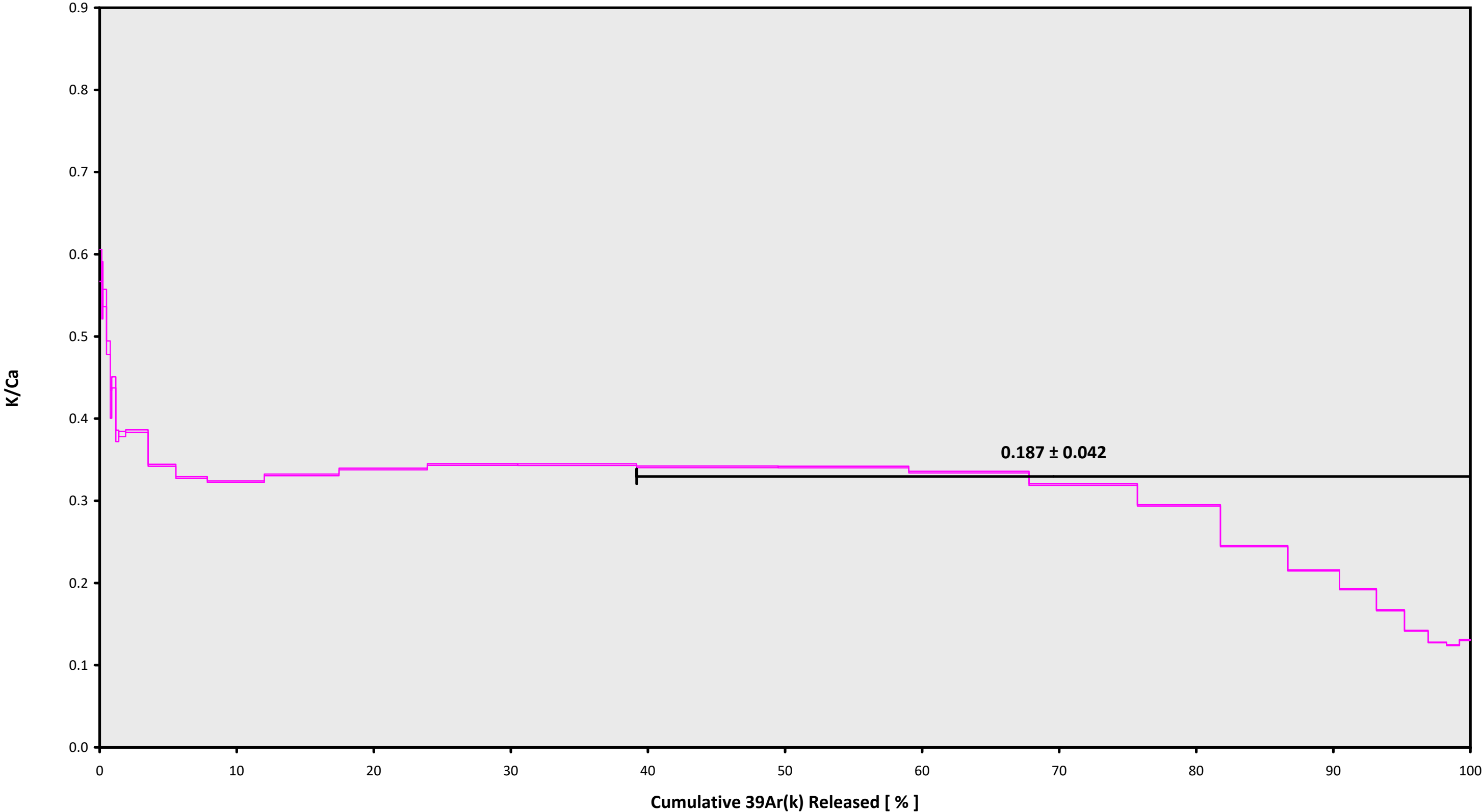
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B3-20)

J =  $0.00166095 \pm 0.00000080$

20F28453.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



**Ar-Ages in Ma**

**WEIGHTED PLATEAU**

**1.87 ± 0.01**

**TOTAL FUSION**

**1.88 ± 0.01**

**NORMAL ISOCHRON**

**1.88 ± 0.03**

**INVERSE ISOCHRON**

**1.89 ± 0.03**

**Sample Info**

**Groundmass**

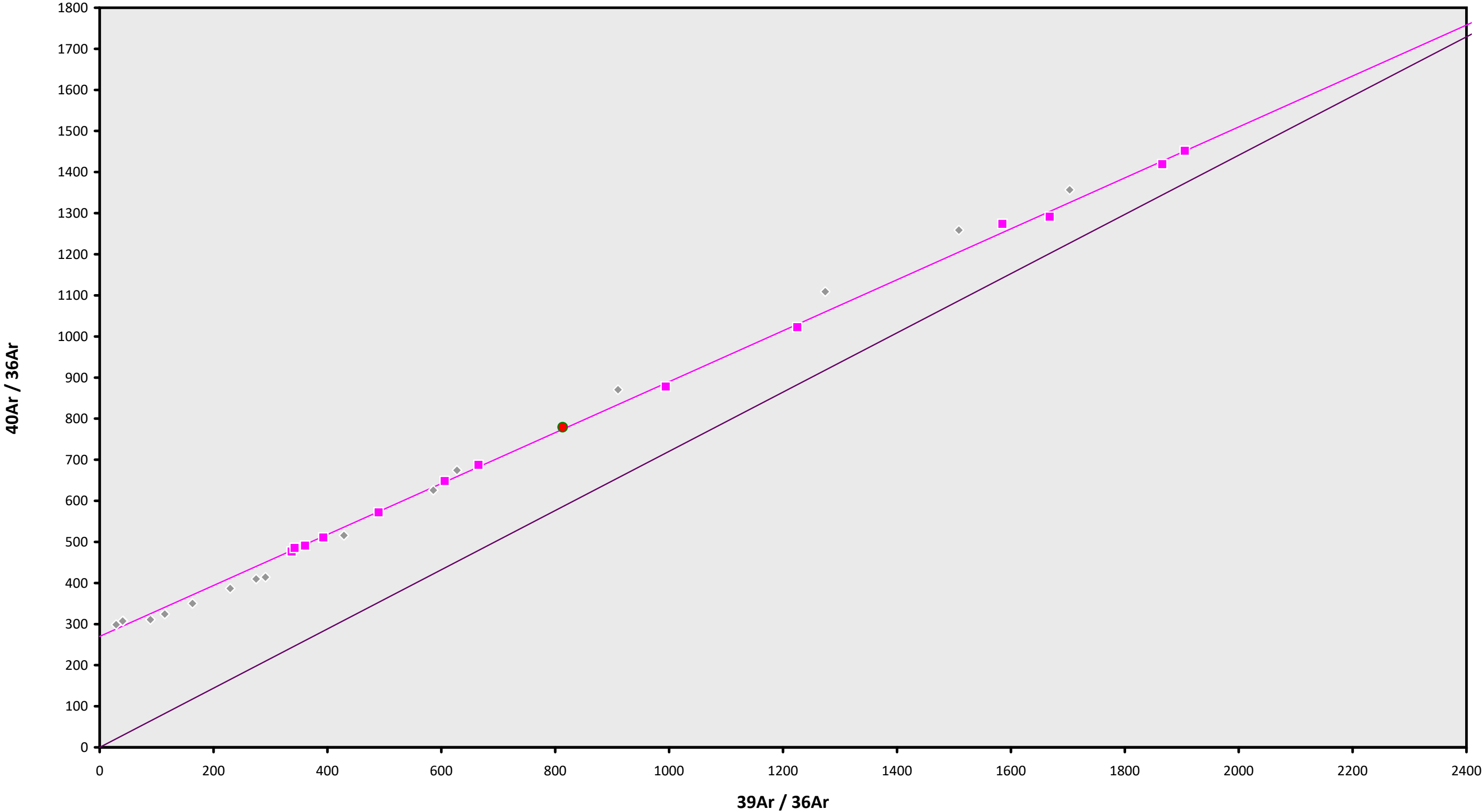
**Badger Lake**

**Dan Miggins**

**IRR = 20-OSU-04 (4B3-20)**

**J = 0.00166095 ± 0.00000080**

20F28453.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.87 ± 0.01

TOTAL FUSION

1.88 ± 0.01

NORMAL ISOCHRON

1.88 ± 0.03

INVERSE ISOCHRON

1.89 ± 0.03

MSWD (PROBABILITY)

2.58 (0%)

40AR/36AR INTERCEPT

269.9 ± 12.3

Sample Info

Groundmass

Badger Lake

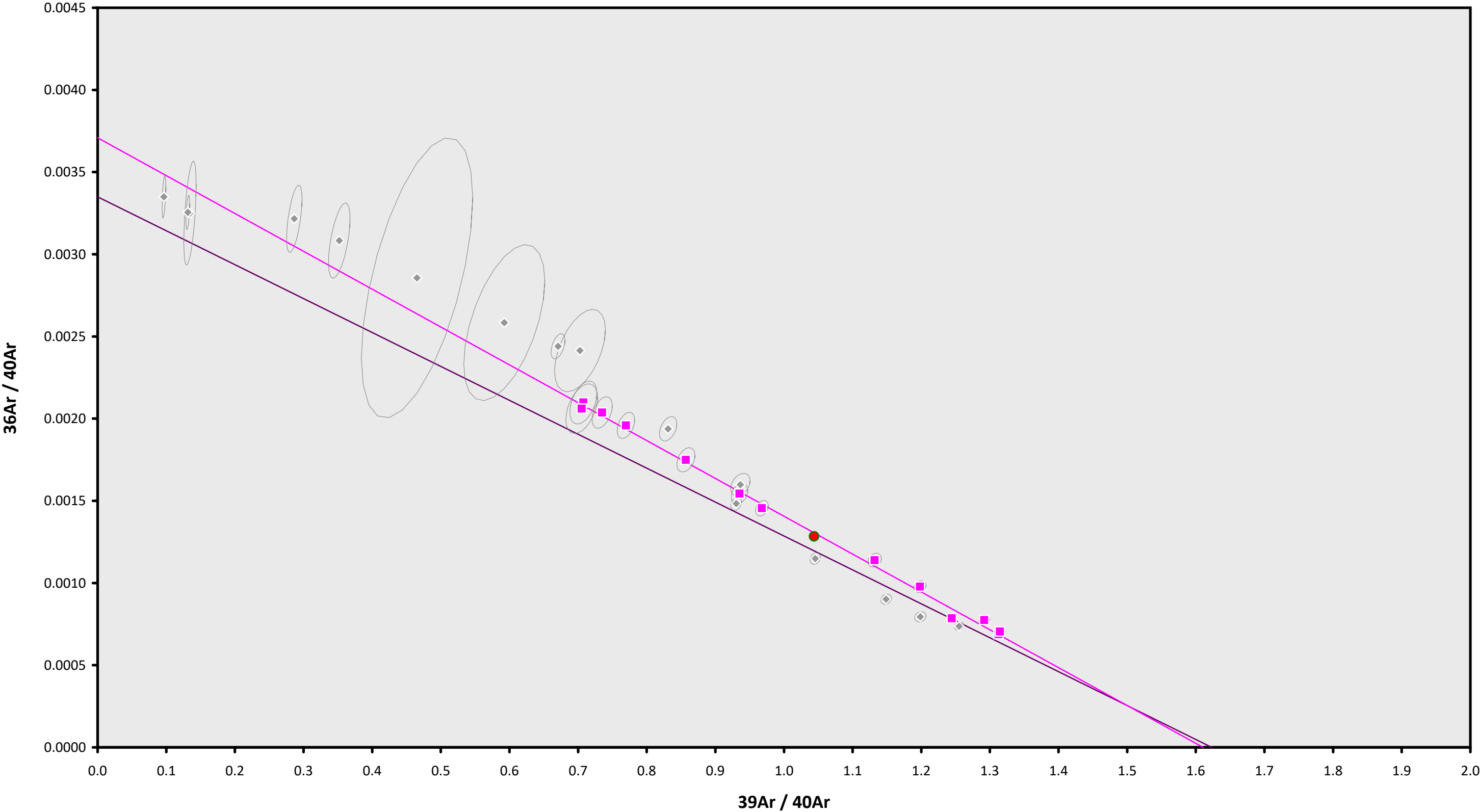
Dan Miggins

IRR = 20-OSU-04 (4B3-20)

J = 0.00166095 ± 0.00000080



20F28453.AGE >>> 178 DFWJ 15 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$1.87 \pm 0.01$

TOTAL FUSION

$1.88 \pm 0.01$

NORMAL ISOCHRON

$1.88 \pm 0.03$

INVERSE ISOCHRON

$1.89 \pm 0.03$

MSWD (PROBABILITY)

2.71 (0%)

SPREADING FACTOR

37.8%

40AR/36AR INTERCEPT

$269.6 \pm 12.6$

Sample Info

Groundmass

Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B3-20)

$J = 0.00166095 \pm 0.00000080$