

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
18D25593	1.8 %	0.1261431	0.701	17.2240	2.590	0.194163	12.291	10.5035	0.225	44.7567	0.137	0.88561 ± 0.05891	2.53 ± 0.17	20.76	0.82	0.262 ± 0.014
18D25595	1.9 %	0.0811942	1.043	30.9460	1.471	0.274935	9.232	17.1338	0.156	41.1530	0.149	1.16208 ± 0.03212	3.32 ± 0.09	48.33	1.33	0.238 ± 0.007
18D25596	2.0 %	0.0636506	1.222	42.1782	1.114	0.298510	8.413	21.4308	0.130	44.8516	0.135	1.38242 ± 0.02335	3.94 ± 0.07	65.97	1.66	0.218 ± 0.005
18D25597	2.1 %	0.0176791	3.625	9.8227	4.311	0.057273	43.103	5.7506	0.401	12.3746	0.483	1.39020 ± 0.07056	3.97 ± 0.20	64.53	0.45	0.251 ± 0.022
18D25599	2.2 %	0.0206581	3.159	18.2021	2.483	0.105027	23.414	9.0938	0.246	18.0960	0.333	1.48608 ± 0.04549	4.24 ± 0.13	74.58	0.71	0.215 ± 0.011
18D25600	2.3 %	0.0439541	1.729	52.0739	0.934	0.317089	7.233	25.2283	0.112	47.9147	0.126	1.55501 ± 0.01907	4.44 ± 0.05	81.77	1.96	0.208 ± 0.004
18D25601	2.4 %	0.0195903	3.241	22.4609	1.965	0.133748	18.791	11.3279	0.213	21.5280	0.277	1.55346 ± 0.03571	4.43 ± 0.10	81.64	0.88	0.217 ± 0.009
18D25603	2.5 %	0.0080769	7.545	8.4061	5.000	0.021769	109.640	4.5363	0.497	8.8489	0.676	1.57846 ± 0.08564	4.50 ± 0.24	80.82	0.35	0.232 ± 0.023
18D25604	2.7 %	0.0104943	6.138	13.5653	3.229	0.094989	25.668	6.5793	0.351	12.4640	0.480	1.59313 ± 0.06204	4.54 ± 0.18	83.98	0.51	0.208 ± 0.014
18D25605	3.0 %	0.0607523	1.252	97.4448	0.646	0.534816	4.860	44.9799	0.086	81.0969	0.077	1.58124 ± 0.01104	4.51 ± 0.03	87.58	3.49	0.198 ± 0.003
18D25607	3.4 %	0.0455985	1.547	85.8638	0.688	0.474538	5.214	39.0845	0.094	68.7608	0.087	1.59372 ± 0.01174	4.55 ± 0.03	90.46	3.04	0.195 ± 0.003
18D25608	3.8 %	0.0812202	0.992	167.9756	0.509	0.883650	2.836	73.1155	0.072	125.2646	0.049	1.57197 ± 0.00741	4.48 ± 0.02	91.62	5.68	0.187 ± 0.002
18D25609	4.2 %	0.0758370	0.965	166.2388	0.512	0.845153	2.904	71.4783	0.074	119.3111	0.052	1.54470 ± 0.00701	4.41 ± 0.02	92.40	5.55	0.185 ± 0.002
18D25611	4.6 %	0.0739536	0.999	173.5510	0.504	0.872307	2.597	73.5742	0.073	120.1241	0.051	1.52711 ± 0.00686	4.36 ± 0.02	93.39	5.71	0.182 ± 0.002
18D25612	5.2 %	0.0213041	3.026	48.4031	0.972	0.273058	9.158	22.9270	0.118	37.1138	0.160	1.51557 ± 0.01794	4.32 ± 0.05	93.50	1.78	0.203 ± 0.004
18D25613	5.8 %	0.1040952	0.783	237.1773	0.473	1.171502	2.225	96.4586	0.068	156.3030	0.040	1.50118 ± 0.00594	4.28 ± 0.02	92.50	7.49	0.175 ± 0.002
18D25615	6.5 %	0.1002485	0.818	228.0411	0.480	1.139029	2.148	95.8907	0.068	153.8502	0.041	1.48858 ± 0.00597	4.25 ± 0.02	92.64	7.45	0.181 ± 0.002
18D25616	7.2 %	✓ 0.0611502	1.218	138.3644	0.543	0.755540	3.047	61.7808	0.074	98.2532	0.062	1.47966 ± 0.00796	4.22 ± 0.02	92.91	4.80	0.192 ± 0.002
18D25617	8.0 %	✓ 0.0580046	1.210	120.6168	0.572	0.682644	3.681	55.0062	0.078	88.1843	0.069	1.46984 ± 0.00845	4.19 ± 0.02	91.55	4.27	0.196 ± 0.002
18D25619	8.9 %	✓ 0.0651863	1.150	127.3601	0.562	0.706337	3.595	58.1770	0.078	94.3329	0.065	1.46860 ± 0.00851	4.19 ± 0.02	90.44	4.52	0.196 ± 0.002
18D25620	9.7 %	✓ 0.0802243	0.989	136.1183	0.552	0.790594	2.934	60.7062	0.074	101.8011	0.061	1.46966 ± 0.00865	4.19 ± 0.02	87.51	4.71	0.191 ± 0.002
18D25621	10.6 %	✓ 0.1005519	0.846	145.6760	0.528	0.792154	3.120	64.0305	0.074	111.7461	0.055	1.46786 ± 0.00886	4.19 ± 0.03	83.99	4.97	0.189 ± 0.002
18D25623	11.6 %	✓ 0.1200573	0.737	141.9969	0.549	0.792701	3.033	62.0098	0.076	114.4396	0.054	1.46260 ± 0.00969	4.17 ± 0.03	79.14	4.81	0.188 ± 0.002
18D25624	12.5 %	✓ 0.0938529	0.870	95.6149	0.648	0.551915	4.369	41.7753	0.085	80.8638	0.077	1.46208 ± 0.01297	4.17 ± 0.04	75.42	3.24	0.188 ± 0.002
18D25625	13.4 %	✓ 0.1579795	0.595	130.1974	0.542	0.665870	3.640	51.6308	0.080	111.1843	0.056	1.46104 ± 0.01287	4.17 ± 0.04	67.74	4.01	0.170 ± 0.002
18D25627	14.6 %	✓ 0.2250981	0.483	153.8112	0.526	0.812408	2.992	58.5492	0.075	139.0665	0.044	1.46219 ± 0.01398	4.17 ± 0.04	61.46	4.55	0.163 ± 0.002
18D25628	15.8 %	✓ 0.1510850	0.599	84.2963	0.676	0.470818	5.037	34.6114	0.093	87.6754	0.068	1.45284 ± 0.01866	4.14 ± 0.05	57.26	2.69	0.176 ± 0.002
18D25629	17.6 %	✓ 0.2000153	0.502	108.3353	0.590	0.512380	4.422	37.7245	0.090	104.7746	0.059	1.45843 ± 0.01996	4.16 ± 0.06	52.41	2.93	0.149 ± 0.002
18D25631	18.6 %	✓ 0.2361849	0.487	140.7277	0.538	0.526448	4.683	36.2318	0.090	111.2437	0.056	1.47716 ± 0.02382	4.21 ± 0.07	47.99	2.81	0.110 ± 0.001
18D25632	19.7 %	✓ 0.1214685	0.706	66.3932	0.797	0.207380	12.125	16.6462	0.156	54.9377	0.111	1.48827 ± 0.03546	4.24 ± 0.10	44.98	1.29	0.108 ± 0.002
18D25633	20.9 %	✓ 0.0781234	1.004	38.2464	1.250	0.136587	18.274	9.9137	0.235	34.6099	0.172	1.49842 ± 0.05194	4.27 ± 0.15	42.81	0.77	0.111 ± 0.003
18D25635	22.5 %	✓ 0.0958092	0.844	64.0241	0.837	0.112738	21.495	10.0709	0.242	38.0841	0.157	1.51186 ± 0.05361	4.31 ± 0.15	39.82	0.78	0.067 ± 0.001

Σ 2.7992415 0.163 3111.3537 0.122 16.208072 0.853 1287.9571 0.017 2485.0093 0.014

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 (18-09)	Age Equations = Min et al. (2000)							
Sample = 184-MCB-DRJ-17	Negative Intensities = Allowed		1.46862 ± 0.00387 ± 0.26%	4.19 ± 0.01 ± 0.30%	1.59	51.15	0.143 ± 0.025	
Material = Groundmass	Collector Calibrations = 36Ar			Full External Error ± 0.10	7%	15		
Location = Mill Creek Buttes	Decay 40K = 5.530 ± 0.048 E-10 1/a			Analytical Error ± 0.01	1.76		2σ Confidence Limit	
Region = Eastern Cascades	Decay 39Ar = 2.940 ± 0.016 E-07 1/h				1.2602		Error Magnification	
Analyst = Dan Miggins	Decay 37Ar = 8.230 ± 0.012 E-04 1/h							
Irradiation = 18-OSU-04 (4C15-18)	Decay 36Cl = 2.257 ± 0.015 E-06 1/a		1.48734 ± 0.00243 ± 0.16%	4.24 ± 0.01 ± 0.22%		32	0.178 ± 0.000	
Position = X: 999 Y: 999 Z/H: 25.13 mm	Decay 40K(EC,β ⁺) = 0.580 ± 0.009 E-10 1/a			Full External Error ± 0.10				
FCT-NM Age = 28.201 ± 0.023 Ma	Decay 40K(β ⁻) = 4.950 ± 0.043 E-10 1/a			Analytical Error ± 0.01				
FCT-NM Reference = Kuiper et al (2008)	Atmospheric 40/36(a) = 291.89 ± 1.26							
FCT-NM 40Ar/39Ar Ratio = 9.95299 ± 0.00746	Atmospheric 38/36(a) = 0.1869	290.50 ± 2.84 ± 0.98%	1.47046 ± 0.00575 ± 0.39%	4.19 ± 0.02 ± 0.42%	1.87	51.15		
FCT-NM J-value = 0.00157916 ± 0.00000118	Production 39/37(ca) = 0.0006425 ± 0.0000059			Full External Error ± 0.10	3%	15		
Air Shot 40Ar/36Ar = 305.7990 ± 0.3089	Production 38/37(ca) = 0.0001800 ± 0.0000173			Analytical Error ± 0.02	1.78		2σ Confidence Limit	
Air Shot MDF = 0.99156937 ± 0.00062317 (LIN)	Production 36/37(ca) = 0.0002703 ± 0.0000005				1.3690		Error Magnification	
Experiment Type = Incremental Heating	Production 40/39(k) = 0.000607 ± 0.000059				100		Number of Iterations	
Extraction Method = Bulk Laser Heating	Production 38/39(k) = 0.012077 ± 0.000011				0.0000187858		Convergence	
Heating = 64 sec	Production 36/38(cl) = 262.80 ± 1.71							
Isolation = 5.10 min	Scaling Ratio K/Ca = 0.430	290.96 ± 2.87 ± 0.99%	1.46954 ± 0.00578 ± 0.39%	4.19 ± 0.02 ± 0.42%	1.94	51.15		
Instrument = ARGUS-VI-D	Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04			Full External Error ± 0.10	2%	15		
Preferred Age = Plateau Age	Atomic Weight K = 39.0983 ± 0.0001 g			Analytical Error ± 0.02	1.78		2σ Confidence Limit	
Age Classification = Eruption Age					1.3919		Error Magnification	
IGSN = Undefined					3		Number of Iterations	
Rock Class = Undefined					0.0002341749		Convergence	
Lithology = Undefined					54%		Spreading Factor	
Lat-Lon = Undefined - Undefined								
		Notes						
		Subatmospheric Initial 40Ar/36Ar = 291.89 ± 0.43 (%SD).						

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
18D25593	1.8 %	0.1214780	17.2240	0.0416417	10.4924	9.2922	2.53 ± 0.17	20.76	0.82	0.262 ± 0.014
18D25595	1.9 %	0.0728183	30.9460	0.0490707	17.1139	19.8877	3.32 ± 0.09	48.33	1.33	0.238 ± 0.007
18D25596	2.0 %	0.0522447	42.1782	0.0226614	21.4037	29.5889	3.94 ± 0.07	65.97	1.66	0.218 ± 0.005
18D25597	2.1 %	0.0150240	9.8227	0.0000000	5.7443	7.9858	3.97 ± 0.20	64.53	0.45	0.251 ± 0.022
18D25599	2.2 %	0.0157380	18.2021	0.0000000	9.0821	13.4968	4.24 ± 0.13	74.58	0.71	0.215 ± 0.011
18D25600	2.3 %	0.0298785	52.0739	0.0000000	25.1948	39.1781	4.44 ± 0.05	81.77	1.96	0.208 ± 0.004
18D25601	2.4 %	0.0135191	22.4609	0.0000000	11.3135	17.5750	4.43 ± 0.10	81.64	0.88	0.217 ± 0.009
18D25603	2.5 %	0.0058047	8.4061	0.0000000	4.5309	7.1518	4.50 ± 0.24	80.82	0.35	0.232 ± 0.023
18D25604	2.7 %	0.0068249	13.5653	0.0119177	6.5706	10.4679	4.54 ± 0.18	83.98	0.51	0.208 ± 0.014
18D25605	3.0 %	0.0344130	97.4448	0.0000000	44.9173	71.0248	4.51 ± 0.03	87.58	3.49	0.198 ± 0.003
18D25607	3.4 %	0.0223895	85.8638	0.0000000	39.0294	62.2019	4.55 ± 0.03	90.46	3.04	0.195 ± 0.003
18D25608	3.8 %	0.0358164	167.9756	0.0000000	73.0076	114.7658	4.48 ± 0.02	91.62	5.68	0.187 ± 0.002
18D25609	4.2 %	0.0309026	166.2388	0.0000000	71.3715	110.2476	4.41 ± 0.02	92.40	5.55	0.185 ± 0.002
18D25611	4.6 %	0.0270428	173.5510	0.0000000	73.4627	112.1860	4.36 ± 0.02	93.39	5.71	0.182 ± 0.002
18D25612	5.2 %	0.0082208	48.4031	0.0000000	22.8959	34.7003	4.32 ± 0.05	93.50	1.78	0.203 ± 0.004
18D25613	5.8 %	0.0399862	237.1773	0.0000000	96.3062	144.5730	4.28 ± 0.02	92.50	7.49	0.175 ± 0.002
18D25615	6.5 %	0.0386090	228.0411	0.0000000	95.7441	142.5225	4.25 ± 0.02	92.64	7.45	0.181 ± 0.002
18D25616	7.2 %	✓ 0.0237503	138.3644	0.0000000	61.6919	91.2833	4.22 ± 0.02	92.91	4.80	0.192 ± 0.002
18D25617	8.0 %	✓ 0.0254019	120.6168	0.0000000	54.9287	80.7364	4.19 ± 0.02	91.55	4.27	0.196 ± 0.002
18D25619	8.9 %	✓ 0.0307608	127.3601	0.0000000	58.0952	85.3188	4.19 ± 0.02	90.44	4.52	0.196 ± 0.002
18D25620	9.7 %	✓ 0.0434256	136.1183	0.0258842	60.6187	89.0888	4.19 ± 0.02	87.51	4.71	0.191 ± 0.002
18D25621	10.6 %	✓ 0.0611757	145.6760	0.0000000	63.9370	93.8507	4.19 ± 0.03	83.99	4.97	0.189 ± 0.002
18D25623	11.6 %	✓ 0.0816746	141.9969	0.0040869	61.9185	90.5621	4.17 ± 0.03	79.14	4.81	0.188 ± 0.002
18D25624	12.5 %	✓ 0.0680041	95.6149	0.0182169	41.7138	60.9888	4.17 ± 0.04	75.42	3.24	0.188 ± 0.002
18D25625	13.4 %	✓ 0.1227872	130.1974	0.0000000	51.5472	75.3127	4.17 ± 0.04	67.74	4.01	0.170 ± 0.002
18D25627	14.6 %	✓ 0.1835128	153.8112	0.0445187	58.4503	85.4655	4.17 ± 0.04	61.46	4.55	0.163 ± 0.002
18D25628	15.8 %	✓ 0.1282964	84.2963	0.0143183	34.5572	50.2060	4.14 ± 0.05	57.26	2.69	0.176 ± 0.002
18D25629	17.6 %	✓ 0.1707309	108.3353	0.0062118	37.6549	54.9171	4.16 ± 0.06	52.41	2.93	0.149 ± 0.002
18D25631	18.6 %	✓ 0.1981399	140.7277	0.0276056	36.1414	53.3866	4.21 ± 0.07	47.99	2.81	0.110 ± 0.001
18D25632	19.7 %	✓ 0.1035224	66.3932	0.0000000	16.6035	24.7105	4.24 ± 0.10	44.98	1.29	0.108 ± 0.002
18D25633	20.9 %	✓ 0.0677854	38.2464	0.0000000	9.8891	14.8180	4.27 ± 0.15	42.81	0.77	0.111 ± 0.003
18D25635	22.5 %	✓ 0.0785035	64.0241	0.0000000	10.0298	15.1636	4.31 ± 0.15	39.82	0.78	0.067 ± 0.001
Σ		1.9581821	3111.3537	0.2661338	1285.9580	1912.6549				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% <i>n</i>)	K/Ca ± 2σ
Project = MCCLAUGHRY (18-09) Sample = 184-MCB-DRJ-17 Material = Groundmass Location = Mill Creek Buttes Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 18-OSU-04 (4C15-18) J = 0.00157916 ± 0.00000118 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	1.46862 ± 0.00387 ± 0.26% Full External Error ± 0.10 Analytical Error ± 0.01	4.19 ± 0.01 ± 0.30%	1.59 7% 1.76 1.2602	51.15 15 2σ Confidence Limit Error Magnification	0.143 ± 0.025
	Total Fusion Age	1.48734 ± 0.00243 ± 0.16% Full External Error ± 0.10 Analytical Error ± 0.01	4.24 ± 0.01 ± 0.22%		32	0.178 ± 0.000

Normal Isochron		39(k)/36(a) ± 2σ		40(a+r)/36(a) ± 2σ	r.i.
18D25593	1.8 %		86.37 ± 1.33	368.38 ± 5.51	0.9399
18D25595	1.9 %		235.02 ± 5.57	565.00 ± 13.39	0.9835
18D25596	2.0 %		409.68 ± 12.41	858.24 ± 26.01	0.9923
18D25597	2.1 %		382.34 ± 33.28	823.42 ± 71.80	0.9896
18D25599	2.2 %		577.08 ± 48.77	1149.48 ± 97.29	0.9952
18D25600	2.3 %		843.24 ± 43.60	1603.14 ± 82.92	0.9979
18D25601	2.4 %		836.85 ± 80.07	1591.91 ± 152.41	0.9973
18D25603	2.5 %		780.55 ± 166.90	1523.96 ± 326.15	0.9969
18D25604	2.7 %		962.74 ± 184.90	1825.66 ± 350.83	0.9981
18D25605	3.0 %		1305.24 ± 59.26	2355.79 ± 106.95	0.9987
18D25607	3.4 %		1743.20 ± 112.83	3070.06 ± 198.70	0.9992
18D25608	3.8 %		2038.38 ± 95.88	3496.17 ± 164.40	0.9993
18D25609	4.2 %		2309.56 ± 115.33	3859.47 ± 192.68	0.9993
18D25611	4.6 %		2716.54 ± 156.76	4440.35 ± 256.20	0.9995
18D25612	5.2 %		2785.12 ± 445.59	4512.94 ± 722.09	0.9997
18D25613	5.8 %		2408.48 ± 105.67	3907.46 ± 171.38	0.9993
18D25615	6.5 %		2479.84 ± 112.89	3983.32 ± 181.28	0.9994
18D25616	7.2 %	✓	2597.52 ± 169.42	4135.36 ± 269.69	0.9996
18D25617	8.0 %	✓	2162.38 ± 124.05	3470.25 ± 199.07	0.9993
18D25619	8.9 %	✓	1888.61 ± 95.40	3065.51 ± 154.83	0.9992
18D25620	9.7 %	✓	1395.92 ± 52.84	2343.42 ± 88.68	0.9987
18D25621	10.6 %	✓	1045.14 ± 30.05	1826.01 ± 52.47	0.9979
18D25623	11.6 %	✓	758.11 ± 16.97	1400.70 ± 31.33	0.9965
18D25624	12.5 %	✓	613.40 ± 15.09	1188.73 ± 29.22	0.9956
18D25625	13.4 %	✓	419.81 ± 6.60	905.25 ± 14.20	0.9923
18D25627	14.6 %	✓	318.51 ± 3.89	757.61 ± 9.21	0.9898
18D25628	15.8 %	✓	269.35 ± 3.89	683.22 ± 9.84	0.9872
18D25629	17.6 %	✓	220.55 ± 2.66	613.55 ± 7.37	0.9841
18D25631	18.6 %	✓	182.40 ± 2.18	561.33 ± 6.66	0.9841
18D25632	19.7 %	✓	160.39 ± 2.74	530.59 ± 8.99	0.9747
18D25633	20.9 %	✓	145.89 ± 3.49	510.49 ± 12.11	0.9700
18D25635	22.5 %	✓	127.76 ± 2.75	485.05 ± 10.27	0.9632

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	290.50 ± 2.84	1.47046 ± 0.00575	4.19 ± 0.02	1.87
No Convergence	± 0.98%	± 0.39%	± 0.42%	3%
			Full External Error ± 0.10	
			Analytical Error ± 0.02	
Statistics	2σ Confidence Limit	1.78	Convergence	0.000018785795
	Error Magnification	1.3690	Number of Iterations	100
	Number of Data Points	15	Calculated Line	Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
18D25593	1.8 %	0.2344656 ± 0.0012358		0.00271457 ± 0.00004057	0.0952
18D25595	1.9 %	0.4159647 ± 0.0017927		0.00176990 ± 0.00004193	0.0868
18D25596	2.0 %	0.4773501 ± 0.0017902		0.00116517 ± 0.00003531	0.0643
18D25597	2.1 %	0.4643320 ± 0.0058330		0.00121444 ± 0.00010590	0.0853
18D25599	2.2 %	0.5020369 ± 0.0041556		0.00086996 ± 0.00007363	0.0632
18D25600	2.3 %	0.5259952 ± 0.0017749		0.00062378 ± 0.00003226	0.0362
18D25601	2.4 %	0.5256915 ± 0.0036744		0.00062818 ± 0.00006014	0.0457
18D25603	2.5 %	0.5121865 ± 0.0086027		0.00065618 ± 0.00014043	0.0509
18D25604	2.7 %	0.5273373 ± 0.0062723		0.00054775 ± 0.00010526	0.0403
18D25605	3.0 %	0.5540581 ± 0.0012785		0.00042449 ± 0.00001927	0.0225
18D25607	3.4 %	0.5678060 ± 0.0014532		0.00032573 ± 0.00002108	0.0184
18D25608	3.8 %	0.5830332 ± 0.0010183		0.00028603 ± 0.00001345	0.0116
18D25609	4.2 %	0.5984136 ± 0.0010801		0.00025910 ± 0.00001294	0.0120
18D25611	4.6 %	0.6117843 ± 0.0010875		0.00022521 ± 0.00001299	0.0102
18D25612	5.2 %	0.6171417 ± 0.0024623		0.00022159 ± 0.00003545	0.0161
18D25613	5.8 %	0.6163809 ± 0.0009775		0.00025592 ± 0.00001122	0.0095
18D25615	6.5 %	0.6225558 ± 0.0009940		0.00025105 ± 0.00001143	0.0095
18D25616	7.2 %	✓	0.6281262 ± 0.0012135	0.00024182 ± 0.00001577	0.0121
18D25617	8.0 %	✓	0.6231207 ± 0.0012975	0.00028816 ± 0.00001653	0.0160
18D25619	8.9 %	✓	0.6160833 ± 0.0012481	0.00032621 ± 0.00001648	0.0165
18D25620	9.7 %	✓	0.5956775 ± 0.0011456	0.00042673 ± 0.00001615	0.0205
18D25621	10.6 %	✓	0.5723614 ± 0.0010568	0.00054764 ± 0.00001574	0.0230
18D25623	11.6 %	✓	0.5412361 ± 0.0010098	0.00071393 ± 0.00001597	0.0280
18D25624	12.5 %	✓	0.5160147 ± 0.0011845	0.00084123 ± 0.00002068	0.0418
18D25625	13.4 %	✓	0.4637496 ± 0.0009051	0.00110467 ± 0.00001732	0.0404
18D25627	14.6 %	✓	0.4204120 ± 0.0007333	0.00131994 ± 0.00001604	0.0367
18D25628	15.8 %	✓	0.3942441 ± 0.0009104	0.00146366 ± 0.00002108	0.0561
18D25629	17.6 %	✓	0.3594680 ± 0.0007717	0.00162986 ± 0.00001957	0.0538
18D25631	18.6 %	✓	0.3249489 ± 0.0006902	0.00178149 ± 0.00002114	0.0492
18D25632	19.7 %	✓	0.3022798 ± 0.0011587	0.00188470 ± 0.00003194	0.0753
18D25633	20.9 %	✓	0.2857799 ± 0.0016696	0.00195889 ± 0.00004646	0.0857
18D25635	22.5 %	✓	0.2634007 ± 0.0015262	0.00206165 ± 0.00004365	0.0804

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	290.96 ± 2.87		1.46954 ± 0.00578	4.19 ± 0.02	1.94
Error Chron	± 0.99%		± 0.39%	± 0.42%	2%
			Full External Error ± 0.10		
			Analytical Error ± 0.02		
Statistics	2σ Confidence Limit	1.78	Convergence	0.0002341749	
	Error Magnification	1.3919	Number of Iterations	3	
	Number of Data Points	15	Calculated Line	Weighted York-2	
	Spreading Factor	53.6%			

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
18D25593	1.8 %	0.1214780	0.73	0.0000000	0.00	0.0046557	2.60	0.0000095	57.33	17.2240	2.59	0.0227042	0.73	0.0000000	0.00	0.126717	0.24	0.0031003	9.97	0.0416417	57.34	10.4924	0.23	0.0110664	2.75	9.2922	3.32	35.45822	0.85	0.0000000	0.00	0.0063689	9.65
18D25595	1.9 %	0.0728183	1.18	0.0000000	0.00	0.0083647	1.48	0.0000112	51.76	30.9460	1.47	0.0136097	1.18	0.0000000	0.00	0.206684	0.18	0.0055703	9.74	0.0490707	51.76	17.1139	0.16	0.0198828	1.73	19.8877	1.37	21.25494	1.25	0.0000000	0.00	0.0103881	9.65
18D25596	2.0 %	0.0522447	1.51	0.0000000	0.00	0.0114008	1.13	0.0000052	110.89	42.1782	1.11	0.0097645	1.51	0.0000000	0.00	0.258492	0.16	0.0075921	9.69	0.0226614	110.90	21.4037	0.13	0.0270995	1.44	29.5889	0.83	15.24971	1.57	0.0000000	0.00	0.0129920	9.65
18D25597	2.1 %	0.0150240	4.33	0.0000000	0.00	0.0026551	4.31	0.0000000	0.00	9.8227	4.31	0.0028080	4.33	0.0000000	0.00	0.069374	0.41	0.0017681	10.55	0.0000000	0.00	5.7443	0.40	0.0063111	4.41	7.9858	2.51	4.38536	4.35	0.0000000	0.00	0.0034868	9.66
18D25599	2.2 %	0.0157380	4.22	0.0000000	0.00	0.0049200	2.49	0.0000000	0.00	18.2021	2.48	0.0029414	4.22	0.0000000	0.00	0.109685	0.26	0.0032764	9.94	0.0000000	0.00	9.0821	0.25	0.0116949	2.65	13.4968	1.51	4.59378	4.24	0.0000000	0.00	0.0055128	9.65
18D25600	2.3 %	0.0298785	2.58	0.0000000	0.00	0.0140756	0.95	0.0000000	0.00	52.0739	0.93	0.0055843	2.58	0.0000000	0.00	0.304278	0.14	0.0093733	9.68	0.0000000	0.00	25.1948	0.11	0.0334575	1.31	39.1781	0.60	8.72123	2.62	0.0000000	0.00	0.0152933	9.65
18D25601	2.4 %	0.0135191	4.78	0.0000000	0.00	0.0060712	1.97	0.0000000	0.00	22.4609	1.96	0.0025267	4.78	0.0000000	0.00	0.136633	0.23	0.0040430	9.83	0.0000000	0.00	11.3135	0.21	0.0144312	2.17	17.5750	1.13	3.94608	4.80	0.0000000	0.00	0.0068673	9.65
18D25603	2.5 %	0.0058047	10.68	0.0000000	0.00	0.0022722	5.00	0.0000000	0.00	8.4061	5.00	0.0010849	10.68	0.0000000	0.00	0.054719	0.51	0.0015131	10.85	0.0000000	0.00	4.5309	0.50	0.0054009	5.08	7.1518	2.67	1.69433	10.69	0.0000000	0.00	0.0027502	9.66
18D25604	2.7 %	0.0068249	9.60	0.0000000	0.00	0.0036667	3.23	0.0000027	204.62	13.5653	3.23	0.0012756	9.60	0.0000000	0.00	0.079353	0.36	0.0024417	10.16	0.0119177	204.63	6.5706	0.35	0.0087157	3.36	10.4679	1.92	1.99213	9.61	0.0000000	0.00	0.0039884	9.66
18D25605	3.0 %	0.0344130	2.27	0.0000000	0.00	0.0263393	0.67	0.0000000	0.00	97.4448	0.65	0.0064318	2.27	0.0000000	0.00	0.542466	0.12	0.0175401	9.65	0.0000000	0.00	44.9173	0.09	0.0626083	1.12	71.0248	0.34	10.04481	2.31	0.0000000	0.00	0.0272648	9.65
18D25607	3.4 %	0.0223895	3.23	0.0000000	0.00	0.0232090	0.71	0.0000000	0.00	85.8638	0.69	0.0041846	3.23	0.0000000	0.00	0.471358	0.13	0.0154555	9.65	0.0000000	0.00	39.0294	0.09	0.0551675	1.15	62.2019	0.36	6.53528	3.26	0.0000000	0.00	0.0236908	9.65
18D25608	3.8 %	0.0358164	2.35	0.0000000	0.00	0.0454038	0.54	0.0000000	0.00	167.9756	0.51	0.0066941	2.35	0.0000000	0.00	0.881712	0.12	0.0302356	9.64	0.0000000	0.00	73.0076	0.07	0.1079243	1.05	114.7658	0.22	10.45445	2.39	0.0000000	0.00	0.0443156	9.65
18D25609	4.2 %	0.0309026	2.50	0.0000000	0.00	0.0449344	0.54	0.0000000	0.00	166.2388	0.51	0.0057757	2.50	0.0000000	0.00	0.861953	0.12	0.0299230	9.64	0.0000000	0.00	71.3715	0.07	0.1068084	1.05	110.2476	0.21	9.02017	2.53	0.0000000	0.00	0.0433225	9.65
18D25611	4.6 %	0.0270428	2.88	0.0000000	0.00	0.0469108	0.53	0.0000000	0.00	173.5510	0.50	0.0050543	2.88	0.0000000	0.00	0.887209	0.12	0.0312392	9.64	0.0000000	0.00	73.4627	0.07	0.1115065	1.05	112.1860	0.21	7.89351	2.92	0.0000000	0.00	0.0445919	9.65
18D25612	5.2 %	0.0082208	8.00	0.0000000	0.00	0.0130834	0.99	0.0000000	0.00	48.4031	0.97	0.0015365	8.00	0.0000000	0.00	0.276514	0.15	0.0087126	9.68	0.0000000	0.00	22.8959	0.12	0.0310990	1.34	34.7003	0.58	2.39957	8.01	0.0000000	0.00	0.0138978	9.65
18D25613	5.8 %	0.0399862	2.19	0.0000000	0.00	0.0641090	0.50	0.0000000	0.00	237.1773	0.47	0.0074734	2.19	0.0000000	0.00	1.163090	0.11	0.0426919	9.64	0.0000000	0.00	96.3062	0.07	0.1523864	1.03	144.5730	0.19	11.67158	2.23	0.0000000	0.00	0.0584578	9.65
18D25615	6.5 %	0.0386090	2.28	0.0000000	0.00	0.0616395	0.51	0.0000000	0.00	228.0411	0.48	0.0072160	2.28	0.0000000	0.00	1.156302	0.11	0.0410474	9.64	0.0000000	0.00	95.7441	0.07	0.1465164	1.04	142.5225	0.19	11.26958	2.32	0.0000000	0.00	0.0581167	9.65
18D25616	7.2 %	✓ 0.0237503	3.26	0.0000000	0.00	0.0373999	0.57	0.0000000	0.00	138.3644	0.54	0.0044389	3.26	0.0000000	0.00	0.745053	0.12	0.0249056	9.65	0.0000000	0.00	61.6919	0.07	0.0888991	1.07	91.2833	0.26	6.93246	3.29	0.0000000	0.00	0.0374470	9.65
18D25617	8.0 %	✓ 0.0254019	2.87	0.0000000	0.00	0.0326027	0.60	0.0000000	0.00	120.6168	0.57	0.0047476	2.87	0.0000000	0.00	0.663374	0.12	0.0217110	9.65	0.0000000	0.00	54.9287	0.08	0.0774963	1.08	80.7364	0.28	7.41456	2.90	0.0000000	0.00	0.0333417	9.65
18D25619	8.9 %	✓ 0.0307608	2.52	0.0000000	0.00	0.0344254	0.59	0.0000000	0.00	127.3601	0.56	0.0057492	2.52	0.0000000	0.00	0.701616	0.12	0.0229248	9.65	0.0000000	0.00	58.0952	0.08	0.0818289	1.08	85.3188	0.28	8.97877	2.56	0.0000000	0.00	0.0352638	9.65
18D25620	9.7 %	✓ 0.0434256	1.89	0.0000000	0.00	0.0367928	0.58	0.0000059	90.16	136.1183	0.55	0.0081162	1.89	0.0000000	0.00	0.732092	0.12	0.0245013	9.65	0.0258842	90.17	60.6187	0.07	0.0874560	1.07	89.0888	0.28	12.67550	1.94	0.0000000	0.00	0.0367956	9.65
18D25621	10.6 %	✓ 0.0611757	1.44	0.0000000	0.00	0.0393762	0.55	0.0000000	0.00	145.6760	0.53	0.0114337	1.44	0.0000000	0.00	0.772167	0.12	0.0262217	9.64	0.0000000	0.00	63.9370	0.07	0.0935968	1.06	93.8507	0.29	17.85657	1.50	0.0000000	0.00	0.0388097	9.65
18D25623	11.6 %	✓ 0.0816746	1.12	0.0000000	0.00	0.0383818	0.57	0.0000009	591.76	141.9969	0.55	0.0152650	1.12	0.0000000	0.00	0.747790	0.12	0.0255594	9.65	0.0040869	591.76	61.9185	0.08	0.0912330	1.07	90.5621	0.32	23.84001	1.20	0.0000000	0.00	0.0375845	9.65
18D25624	12.5 %	✓ 0.0680041	1.23	0.0000000	0.00	0.0258447	0.67	0.0000041	132.75	95.6149	0.65	0.0127100	1.23	0.0000000	0.00	0.503778	0.12	0.0172107	9.65	0.0182169	132.75	41.7138	0.09	0.0614326	1.13	60.9888	0.44	19.84971	1.30	0.0000000	0.00	0.0253203	9.65
18D25625	13.4 %	✓ 0.1227872	0.78	0.0000000	0.00	0.0351924	0.57	0.0000000	0.00	130.1974	0.54	0.0229489	0.78	0.0000000	0.00	0.622535	0.12	0.0234355	9.65	0.0000000	0.00	51.5472	0.08	0.0836518	1.07	75.3127	0.43	35.84035	0.89	0.0000000	0.00	0.0312891	9.65
18D25627	14.6 %	✓ 0.1835128	0.61	0.0000000	0.00	0.0415752	0.55	0.0000101	54.98	153.8112	0.53	0.0342985	0.61	0.0000000	0.00	0.705905	0.12	0.0276860	9.64	0.0445187	54.99	58.4503	0.08	0.0988237	1.06	85.4655	0.47	53.56555	0.74	0.0000000	0.00	0.0354793	9.65
18D25628	15.8 %	✓ 0.1282964	0.72	0.0000000	0.00	0.0227853	0.70	0.0000033	166.01	84.2963	0.68	0.0239786	0.72	0.0000000	0.00	0.417348	0.13	0.0151733	9.65	0.0143183	166.02	34.5572	0.09	0.0541604	1.14	50.2060	0.64	37.44844	0.84	0.0000000	0.00	0.0209762	9.65
18D25629	17.6 %	✓ 0.1707309	0.60	0.0000000	0.00	0.0292830	0.61	0.0000014	366.17	108.3353	0.59	0.0319096	0.60	0.0000000	0.00	0.454758	0.13	0.0195004	9.65	0.0062118	366.17	37.6549	0.09	0.0696055	1.09	54.9171	0.68	49.83463	0.74	0.0000000	0.00	0.0228565	9.65
18D25631	18.6 %	✓ 0.1981399	0.59	0.0000000	0.00	0.0380387	0.56	0.0000063	89.78	140.7277	0.54	0.0370324	0.59	0.0000000	0.00	0.436479	0.13	0.0253310	9.65	0.0276056	89.78	36.1414	0.09	0.0904175	1.07	53.3866	0.80	57.83507	0.73	0.0000000	0.00	0.0219378	9.65
18D25632	19.7 %	✓ 0.1035224	0.84	0.0000000	0.00	0.0179461	0.81	0.0000000	0.00	66.3932	0.80	0.0193483	0.84	0.0000000	0.00	0.200521	0.18	0.0119508	9.66	0.0000000	0.00	16.6035	0.16	0.0426576	1.22	24.7105	1.18	30.21715	0.94	0.0000000	0.00	0.0100783	9.65
18D25633	20.9 %	✓ 0.0677854	1.17	0.0000000	0.00	0.0103380	1.26	0.0000000	0.00	38.2464	1.25	0.0126691	1.17	0.0000000	0.00	0.119431	0.25	0.0068844	9.71	0.0000000	0.00	9.8891	0										

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
18D25593	1.8 %		4.261130	0.011220	1.639838	0.042637	0.012010	0.000088	139.937	15.902873	1.00098876	2.148E-12
18D25595	1.9 %		2.401867	0.005171	1.806138	0.026716	0.004739	0.000050	139.955	15.908545	1.00098889	1.975E-12
18D25596	2.0 %		2.092856	0.003921	1.968113	0.022073	0.002970	0.000037	139.964	15.911382	1.00098896	2.153E-12
18D25597	2.1 %		2.151874	0.013507	1.708105	0.073952	0.003074	0.000112	139.974	15.914438	1.00098902	5.940E-13
18D25599	2.2 %		1.989930	0.008230	2.001593	0.049937	0.002272	0.000072	139.992	15.920115	1.00098915	8.686E-13
18D25600	2.3 %		1.899243	0.003201	2.064106	0.019411	0.001742	0.000030	140.001	15.922954	1.00098922	2.300E-12
18D25601	2.4 %		1.900439	0.006637	1.982801	0.039187	0.001729	0.000056	140.010	15.925793	1.00098928	1.033E-12
18D25603	2.5 %		1.950695	0.016371	1.853095	0.093113	0.001781	0.000135	140.028	15.931474	1.00098941	4.247E-13
18D25604	2.7 %		1.894414	0.011258	2.061794	0.066969	0.001595	0.000098	140.037	15.934315	1.00098947	5.983E-13
18D25605	3.0 %		1.802959	0.002077	2.166408	0.014118	0.001351	0.000017	140.047	15.937375	1.00098954	3.893E-12
18D25607	3.4 %		1.759285	0.002248	2.196874	0.015250	0.001167	0.000018	140.065	15.943279	1.00098967	3.301E-12
18D25608	3.8 %		1.713242	0.001493	2.297402	0.011810	0.001111	0.000011	140.074	15.946122	1.00098974	6.013E-12
18D25609	4.2 %		1.669194	0.001503	2.325725	0.012021	0.001061	0.000010	140.083	15.948966	1.00098980	5.727E-12
18D25611	4.6 %		1.632692	0.001448	2.358856	0.012002	0.001005	0.000010	140.102	15.954874	1.00098993	5.766E-12
18D25612	5.2 %		1.618782	0.003226	2.111186	0.020669	0.000929	0.000028	140.111	15.957719	1.00099000	1.781E-12
18D25613	5.8 %		1.620416	0.001282	2.458851	0.011751	0.001079	0.000008	140.120	15.960565	1.00099006	7.503E-12
18D25615	6.5 %		1.604434	0.001278	2.378137	0.011524	0.001045	0.000009	140.138	15.966258	1.00099019	7.385E-12
18D25616	7.2 %	✓	1.590352	0.001533	2.239601	0.012263	0.000990	0.000012	140.147	15.969105	1.00099025	4.716E-12
18D25617	8.0 %	✓	1.603171	0.001666	2.192786	0.012653	0.001055	0.000013	140.156	15.971953	1.00099031	4.233E-12
18D25619	8.9 %	✓	1.621480	0.001640	2.189183	0.012421	0.001120	0.000013	140.175	15.977869	1.00099045	4.528E-12
18D25620	9.7 %	✓	1.676948	0.001610	2.242247	0.012499	0.001322	0.000013	140.184	15.980718	1.00099051	4.886E-12
18D25621	10.6 %	✓	1.745200	0.001608	2.275101	0.012123	0.001570	0.000013	140.193	15.983568	1.00099057	5.364E-12
18D25623	11.6 %	✓	1.845510	0.001718	2.289912	0.012684	0.001936	0.000014	140.211	15.989270	1.00099070	5.493E-12
18D25624	12.5 %	✓	1.935686	0.002219	2.288793	0.014953	0.002247	0.000020	140.220	15.992121	1.00099077	3.881E-12
18D25625	13.4 %	✓	2.153449	0.002098	2.521699	0.013816	0.003060	0.000018	140.229	15.994973	1.00099083	5.337E-12
18D25627	14.6 %	✓	2.375210	0.002067	2.627045	0.013956	0.003845	0.000019	140.248	16.000898	1.00099096	6.675E-12
18D25628	15.8 %	✓	2.533136	0.002921	2.435507	0.016625	0.004365	0.000026	140.257	16.003751	1.00099103	4.208E-12
18D25629	17.6 %	✓	2.777362	0.002976	2.871751	0.017146	0.005302	0.000027	140.266	16.006605	1.00099109	5.029E-12
18D25631	18.6 %	✓	3.070333	0.003253	3.884094	0.021181	0.006519	0.000032	140.284	16.012315	1.00099122	5.340E-12
18D25632	19.7 %	✓	3.300321	0.006313	3.988496	0.032376	0.007297	0.000053	140.293	16.015170	1.00099128	2.637E-12
18D25633	20.9 %	✓	3.491128	0.010180	3.857949	0.049058	0.007880	0.000081	140.302	16.018026	1.00099134	1.661E-12
18D25635	22.5 %	✓	3.781595	0.010922	6.357324	0.055384	0.009513	0.000084	140.321	16.023960	1.00099148	1.828E-12

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
18D25593	1.8 %	0.0227327 ± 0.0005015	0.0399310 ± 0.0186025	0.0474712 ± 0.0170768	0.0535908 ± 0.0161865	6.4148901 ± 0.0567636
18D25595	1.9 %	0.0227827 ± 0.0005015	0.0115321 ± 0.0186025	0.0228535 ± 0.0170768	0.0280094 ± 0.0161865	6.5430399 ± 0.0567636
18D25596	2.0 %	0.0228009 ± 0.0005015	0.0008902 ± 0.0186025	0.0133821 ± 0.0170768	0.0188530 ± 0.0161865	6.5817413 ± 0.0567636
18D25597	2.1 %	0.0228148 ± 0.0005015	0.0082240 ± 0.0186025	0.0050689 ± 0.0170768	0.0112759 ± 0.0161865	6.6073889 ± 0.0567636
18D25599	2.2 %	0.0228240 ± 0.0005015	0.0194896 ± 0.0186025	0.0057744 ± 0.0170768	0.0024095 ± 0.0161865	6.6182831 ± 0.0567636
18D25600	2.3 %	0.0228199 ± 0.0005015	0.0227309 ± 0.0186025	0.0092321 ± 0.0170768	0.0000264 ± 0.0161865	6.6091800 ± 0.0567636
18D25601	2.4 %	0.0228098 ± 0.0005015	0.0246060 ± 0.0186025	0.0115520 ± 0.0170768	0.0012838 ± 0.0161865	6.5924215 ± 0.0567636
18D25603	2.5 %	0.0227715 ± 0.0005015	0.0248974 ± 0.0186025	0.0132620 ± 0.0170768	0.0014795 ± 0.0161865	6.5415303 ± 0.0567636
18D25604	2.7 %	0.0227434 ± 0.0005015	0.0236149 ± 0.0186025	0.0128799 ± 0.0170768	0.0007250 ± 0.0161865	6.5099686 ± 0.0567636
18D25605	3.0 %	0.0227065 ± 0.0005015	0.0213835 ± 0.0186025	0.0117092 ± 0.0170768	0.0004778 ± 0.0161865	6.4731987 ± 0.0567636
18D25607	3.4 %	0.0226170 ± 0.0005015	0.0151777 ± 0.0186025	0.0076761 ± 0.0170768	0.0033114 ± 0.0161865	6.3988239 ± 0.0567636
18D25608	3.8 %	0.0225659 ± 0.0005015	0.0115519 ± 0.0186025	0.0050965 ± 0.0170768	0.0046619 ± 0.0161865	6.3633392 ± 0.0567636
18D25609	4.2 %	0.0225101 ± 0.0005015	0.0076616 ± 0.0186025	0.0022179 ± 0.0170768	0.0058665 ± 0.0161865	6.3291529 ± 0.0567636
18D25611	4.6 %	0.0223811 ± 0.0005015	0.0008337 ± 0.0186025	0.0043819 ± 0.0170768	0.0075623 ± 0.0161865	6.2651702 ± 0.0567636
18D25612	5.2 %	0.0223138 ± 0.0005015	0.0049370 ± 0.0186025	0.0077122 ± 0.0170768	0.0078663 ± 0.0161865	6.2388864 ± 0.0567636
18D25613	5.8 %	0.0222440 ± 0.0005015	0.0089400 ± 0.0186025	0.0110559 ± 0.0170768	0.0077817 ± 0.0161865	6.2161297 ± 0.0567636
18D25615	6.5 %	0.0220997 ± 0.0005015	0.0163703 ± 0.0186025	0.0175628 ± 0.0170768	0.0063723 ± 0.0161865	6.1823782 ± 0.0567636
18D25616	7.2 %	0.0220267 ± 0.0005015	0.0196788 ± 0.0186025	0.0206293 ± 0.0170768	0.0050473 ± 0.0161865	6.1717484 ± 0.0567636
18D25617	8.0 %	0.0219544 ± 0.0005015	0.0226497 ± 0.0186025	0.0235156 ± 0.0170768	0.0033332 ± 0.0161865	6.1653755 ± 0.0567636
18D25619	8.9 %	0.0218103 ± 0.0005015	0.0275725 ± 0.0186025	0.0287887 ± 0.0170768	0.0012943 ± 0.0161865	6.1654492 ± 0.0567636
18D25620	9.7 %	0.0217461 ± 0.0005015	0.0292811 ± 0.0186025	0.0309244 ± 0.0170768	0.0039123 ± 0.0161865	6.1715132 ± 0.0567636
18D25621	10.6 %	0.0216868 ± 0.0005015	0.0305328 ± 0.0186025	0.0327710 ± 0.0170768	0.0066779 ± 0.0161865	6.1810933 ± 0.0567636
18D25623	11.6 %	0.0215877 ± 0.0005015	0.0316316 ± 0.0186025	0.0355498 ± 0.0170768	0.0122507 ± 0.0161865	6.2090685 ± 0.0567636
18D25624	12.5 %	0.0215505 ± 0.0005015	0.0314805 ± 0.0186025	0.0364720 ± 0.0170768	0.0148206 ± 0.0161865	6.2263719 ± 0.0567636
18D25625	13.4 %	0.0215233 ± 0.0005015	0.0308760 ± 0.0186025	0.0370848 ± 0.0170768	0.0170634 ± 0.0161865	6.2450077 ± 0.0567636
18D25627	14.6 %	0.0215054 ± 0.0005015	0.0282657 ± 0.0186025	0.0374121 ± 0.0170768	0.0199844 ± 0.0161865	6.2845149 ± 0.0567636
18D25628	15.8 %	0.0215186 ± 0.0005015	0.0264213 ± 0.0186025	0.0371491 ± 0.0170768	0.0201821 ± 0.0161865	6.3020204 ± 0.0567636
18D25629	17.6 %	0.0215481 ± 0.0005015	0.0242500 ± 0.0186025	0.0366446 ± 0.0170768	0.0193268 ± 0.0161865	6.3171478 ± 0.0567636
18D25631	18.6 %	0.0216631 ± 0.0005015	0.0191341 ± 0.0186025	0.0350374 ± 0.0170768	0.0135810 ± 0.0161865	6.3356219 ± 0.0567636
18D25632	19.7 %	0.0217523 ± 0.0005015	0.0163118 ± 0.0186025	0.0340114 ± 0.0170768	0.0082155 ± 0.0161865	6.3364202 ± 0.0567636
18D25633	20.9 %	0.0218650 ± 0.0005015	0.0134072 ± 0.0186025	0.0328970 ± 0.0170768	0.0008473 ± 0.0161865	6.3297431 ± 0.0567636
18D25635	22.5 %	0.0221829 ± 0.0005015	0.0074670 ± 0.0186025	0.0305312 ± 0.0170768	0.0220635 ± 0.0161865	6.2853721 ± 0.0567636

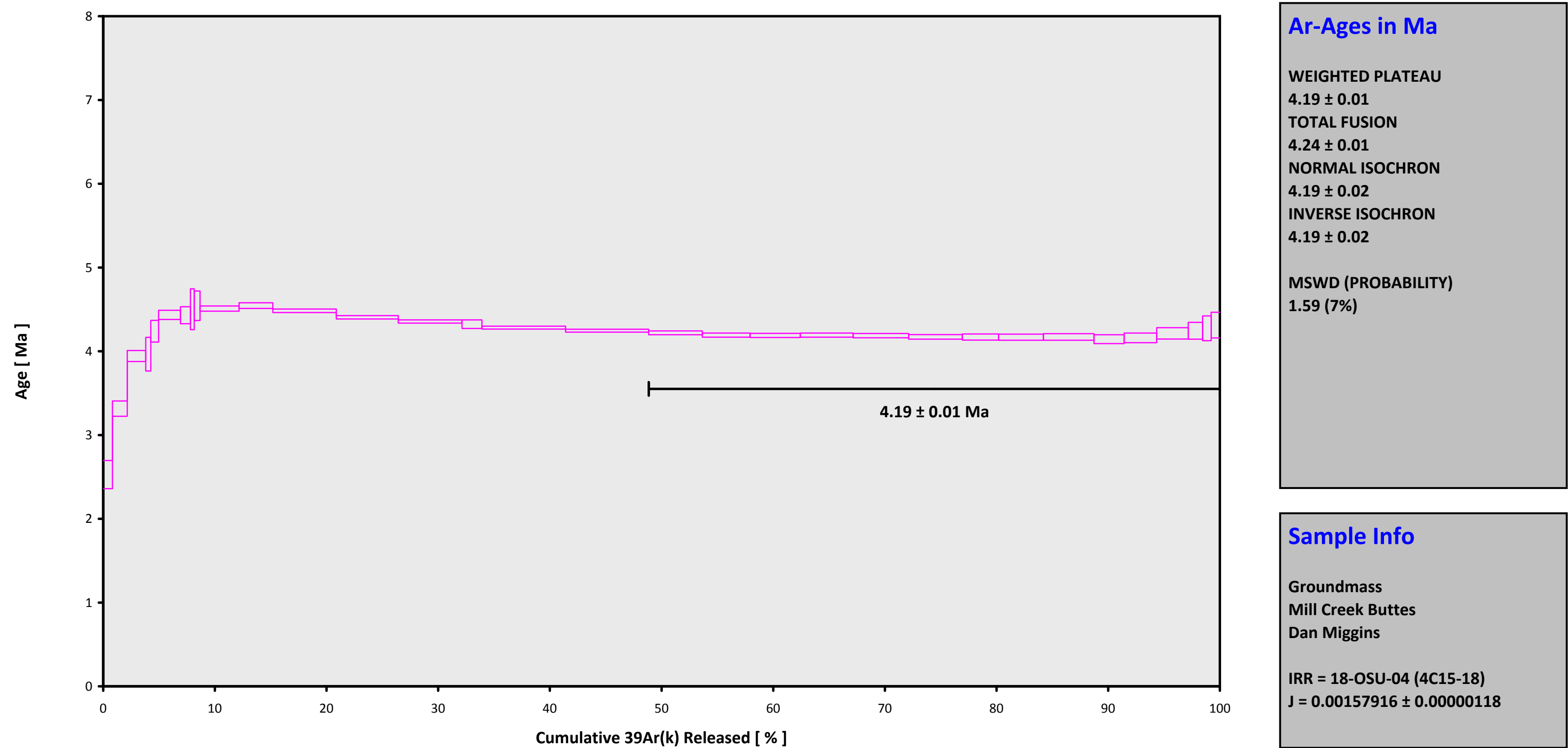
Intercept Values		36Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]		r2	Regression (type,n)
18D25593	1.8 %	0.1411491 ± 0.0005870	0.0026	EXP	149 of 150	1.0157927 ± 0.0194999	0.0767	EXP	150 of 150	0.1434188 ± 0.0160887	0.0133	EXP	150 of 150	10.3512343 ± 0.0155920	0.9325	EXP	150 of 150	51.171640 ± 0.023042	0.9989	EXP	149 of 150
18D25595	1.9 %	0.0990034 ± 0.0005846	0.1884	EXP	150 of 150	1.8845827 ± 0.0190364	0.2425	EXP	150 of 150	0.2474467 ± 0.0181937	0.0168	EXP	150 of 150	16.9448112 ± 0.0179605	0.9708	EXP	149 of 150	47.696080 ± 0.022930	0.9984	EXP	150 of 150
18D25596	2.0 %	0.0825527 ± 0.0005081	0.3938	EXP	150 of 150	2.5829849 ± 0.0187995	0.4278	EXP	150 of 150	0.2800960 ± 0.0178285	0.0072	EXP	149 of 150	21.2106215 ± 0.0178937	0.9817	EXP	150 of 150	51.433305 ± 0.021169	0.9982	EXP	150 of 150
18D25597	2.1 %	0.0394110 ± 0.0003296	0.7500	EXP	149 of 150	0.6098531 ± 0.0178777	0.0111	EXP	147 of 150	0.0512390 ± 0.0172459	0.0006	EXP	150 of 150	5.6853187 ± 0.0156973	0.7662	EXP	150 of 150	18.981993 ± 0.018760	0.9989	EXP	148 of 150
18D25599	2.2 %	0.0422167 ± 0.0003483	0.6195	EXP	150 of 150	1.1339545 ± 0.0198877	0.1837	EXP	150 of 150	0.1090309 ± 0.0171137	0.0035	EXP	149 of 150	9.0059698 ± 0.0140035	0.9327	EXP	148 of 150	24.714328 ± 0.020042	0.9981	EXP	150 of 150
18D25600	2.3 %	0.0640816 ± 0.0004964	0.3487	EXP	149 of 150	3.2105039 ± 0.0185281	0.5198	EXP	150 of 150	0.3209751 ± 0.0147181	0.0129	EXP	150 of 150	24.9912723 ± 0.0168083	0.9889	EXP	149 of 150	54.523855 ± 0.019883	0.9963	EXP	150 of 150
18D25601	2.4 %	0.0412001 ± 0.0003186	0.6915	EXP	147 of 150	1.3993376 ± 0.0186279	0.1342	EXP	150 of 150	0.1430456 ± 0.0178573	0.0001	EXP	150 of 150	11.2227523 ± 0.0161611	0.9453	EXP	150 of 150	28.120382 ± 0.017944	0.9981	EXP	147 of 150
18D25603	2.5 %	0.0303536 ± 0.0002746	0.7487	EXP	150 of 150	0.5392157 ± 0.0176115	0.0251	EXP	150 of 150	0.0346643 ± 0.0160939	0.0060	EXP	150 of 150	4.4951355 ± 0.0151134	0.6563	EXP	149 of 150	15.390415 ± 0.018988	0.9980	EXP	148 of 150
18D25604	2.7 %	0.0325949 ± 0.0003369	0.6471	EXP	150 of 150	0.8534381 ± 0.0189382	0.1806	EXP	150 of 150	0.1062671 ± 0.0168219	0.0449	EXP	150 of 150	6.5182604 ± 0.0155954	0.8408	EXP	150 of 150	18.973969 ± 0.018863	0.9977	EXP	150 of 150
18D25605	3.0 %	0.0797375 ± 0.0004866	0.0431	EXP	149 of 150	5.9812019 ± 0.0211915	0.7809	EXP	150 of 150	0.5375094 ± 0.0190003	0.0378	EXP	149 of 150	44.5568627 ± 0.0206576	0.9958	EXP	150 of 150	87.570118 ± 0.025282	0.9603	EXP	149 of 150
18D25607	3.4 %	0.0654224 ± 0.0004181	0.3072	EXP	150 of 150	5.2647446 ± 0.0206077	0.6938	EXP	150 of 150	0.4742147 ± 0.0173166	0.0281	EXP	150 of 150	38.7140321 ± 0.0214307	0.9926	EXP	150 of 150	75.159662 ± 0.019075	0.9807	EXP	148 of 150
18D25608	3.8 %	0.0988111 ± 0.0005313	0.0042	EXP	150 of 150	10.2794678 ± 0.0185693	0.9198	EXP	149 of 150	0.8738495 ± 0.0177257	0.1063	EXP	150 of 150	72.4239197 ± 0.0202952	0.9981	EXP	150 of 150	131.627897 ± 0.022486	0.9580	EXP	150 of 150
18D25609	4.2 %	0.0937018 ± 0.0004328	0.0006	EXP	147 of 150	10.1675991 ± 0.0189246	0.9096	EXP	150 of 150	0.8331227 ± 0.0170163	0.0859	EXP	150 of 150	70.8008948 ± 0.0220404	0.9977	EXP	150 of 150	125.640292 ± 0.024507	0.9313	EXP	149 of 150
18D25611	4.6 %	0.0918048 ± 0.0004449	0.0506	EXP	150 of 150	10.6020702 ± 0.0181358	0.9255	EXP	149 of 150	0.8532191 ± 0.0142588	0.1050	EXP	149 of 150	72.8754418 ± 0.0212382	0.9980	EXP	150 of 150	126.389227 ± 0.022661	0.9633	EXP	150 of 150
18D25612	5.2 %	0.0423130 ± 0.0003350	0.5392	EXP	150 of 150	2.9516700 ± 0.0176164	0.4465	EXP	149 of 150	0.2607424 ± 0.0176829	0.0138	EXP	150 of 150	22.7037164 ± 0.0160612	0.9872	EXP	149 of 150	43.352666 ± 0.017861	0.9945	EXP	149 of 150
18D25613	5.8 %	0.1199630 ± 0.0005206	0.1087	EXP	150 of 150	14.4759725 ± 0.0169501	0.9639	EXP	148 of 150	1.1406969 ± 0.0190576	0.1186	EXP	150 of 150	95.5445350 ± 0.0191449	0.9990	EXP	150 of 150	162.519147 ± 0.027679	0.9897	EXP	150 of 150
18D25615	6.5 %	0.1162076 ± 0.0005320	0.0197	EXP	150 of 150	13.9056145 ± 0.0190307	0.9483	EXP	149 of 150	1.1022643 ± 0.0168866	0.0781	EXP	150 of 150	94.9833683 ± 0.0191400	0.9990	EXP	149 of 150	160.032560 ± 0.028780	0.9890	EXP	150 of 150
18D25616	7.2 %	0.0794312 ± 0.0004639	0.0722	EXP	150 of 150	8.4260039 ± 0.0192857	0.8777	EXP	150 of 150	0.7221736 ± 0.0148248	0.1275	EXP	150 of 150	61.1953097 ± 0.0179267	0.9979	EXP	148 of 150	104.424982 ± 0.021206	0.6487	EXP	147 of 150
18D25617	8.0 %	0.0764060 ± 0.0004038	0.0498	EXP	149 of 150	7.3384170 ± 0.0193845	0.8314	EXP	150 of 150	0.6476204 ± 0.0178305	0.0655	EXP	150 of 150	54.4860349 ± 0.0191682	0.9970	EXP	148 of 150	94.349650 ± 0.021704	0.2868	EXP	150 of 150
18D25619	8.9 %	0.0830037 ± 0.0004681	0.0572	EXP	150 of 150	7.7421542 ± 0.0197879	0.8478	EXP	147 of 150	0.6656407 ± 0.0181867	0.0293	EXP	150 of 150	57.6317066 ± 0.0207397	0.9969	EXP	150 of 150	100.498323 ± 0.022815	0.6229	EXP	150 of 150
18D25620	9.7 %	0.0970563 ± 0.0005151	0.0001	EXP	150 of 150	8.2732625 ± 0.0205565	0.8716	EXP	150 of 150	0.7463416 ± 0.0150876	0.1426	EXP	148 of 150	60.1397286 ± 0.0174775	0.9980	EXP	150 of 150	107.972657 ± 0.024950	0.8643	EXP	150 of 150
18D25621	10.6 %	0.1160795 ± 0.0005719	0.0554	EXP	150 of 150	8.8533998 ± 0.0179639	0.8975	EXP	149 of 150	0.7460288 ± 0.0172549	0.0262	EXP	150 of 150	63.4356187 ± 0.0186170	0.9979	EXP	150 of 150	117.927207 ± 0.024051	0.9467	EXP	149 of 150
18D25623	11.6 %	0.1342910 ± 0.0005956	0.1928	EXP	150 of 150	8.6248470 ± 0.0213949	0.8511	EXP	149 of 150	0.7437879 ± 0.0163111	0.1103	EXP	149 of 150	61.4393772 ± 0.0206372	0.9973	EXP	150 of 150	120.648714 ± 0.024349	0.9639	EXP	149 of 150
18D25624	12.5 %	0.1096545 ± 0.0005328	0.0577	EXP	149 of 150	5.7964005 ± 0.0205118	0.7465	EXP	150 of 150	0.5061391 ± 0.0164318	0.0473	EXP	150 of 150	41.3975720 ± 0.0175138	0.9956	EXP	149 of 150	87.090155 ± 0.024972	0.3572	EXP	150 of 150
18D25625	13.4 %	0.1698260 ± 0.0006166	0.5135	EXP	150 of 150	7.9034473 ± 0.0168287	0.8843	EXP	149 of 150	0.6175593 ± 0.0165987	0.0213	EXP	150 of 150	51.1627747 ± 0.0195932	0.9964	EXP	150 of 150	117.429339 ± 0.024346	0.9571	EXP	149 of 150
18D25627	14.6 %	0.2328154 ± 0.0007041	0.7057	EXP	150 of 150	9.3416307 ± 0.0194922	0.8883	EXP	150 of 150	0.7612999 ± 0.0166913	0.0396	EXP	148 of 150	58.0190063 ± 0.0176510	0.9977	EXP	150 of 150	145.351055 ± 0.022881	0.9916	EXP	150 of 150
18D25628	15.8 %	0.1633490 ± 0.0005813	0.5366	EXP	149 of 150	5.1078381 ± 0.0186619	0.7347	EXP	150 of 150	0.4257317 ± 0.0158663	0.0084	EXP	150 of 150	34.3063643 ± 0.0170447	0.9937	EXP	150 of 150	93.977402 ± 0.018956	0.6156	EXP	147 of 150
18D25629	17.6 %	0.2093117 ± 0.0006346	0.7366	EXP	150 of 150	6.5729855 ± 0.0180719	0.8201	EXP	150 of 150	0.4670973 ± 0.0142907	0.0158	EXP	150 of 150	37.3893499 ± 0.0175805	0.9946	EXP	149 of 150	111.091699 ± 0.023942	0.9445	EXP	150 of 150
18D25631	18.6 %	0.2433808 ± 0.0007673	0.7094	EXP	150 of 150	8.5476227 ± 0.0187949	0.8761	EXP	150 of 150	0.4825358 ± 0.0171873	0.0396	EXP	150 of 150	35.9049258 ± 0.0166814	0.9947	EXP	147 of 150	117.579276 ± 0.024701	0.9688	EXP	149 of 150
18D25632	19.7 %	0.1357803 ± 0.0005567	0.2908	EXP	149 of 150	4.0246357 ± 0.0193217	0.6238	EXP	149 of 150	0.1698729 ± 0.0178723	0.0000	EXP	150 of 150	16.4979825 ± 0.0171406	0.9718	EXP	149 of 150	61.274156 ± 0.021571	0.9666	EXP	150 of 150
18D25633	20.9 %	0.0952030 ± 0.0005052	0.0013	EXP	150 of 150	2.3140032 ± 0.0198690	0.2814	EXP	150 of 150	0.1013873 ± 0.0176218	0.0007	EXP	150 of 150	9.8213644 ± 0.0152910	0.9285	EXP	149 of 150	40.939637 ± 0.018259	0.9921	EXP	149 of 150
18D25635	22.5 %	0.1121234 ± 0.0005204	0.1114	EXP	148 of 150	3.8871468 ± 0.0205351	0.5515	EXP	150 of 150	0.0803060 ± 0.0166115	0.0042	EXP	150 of 150	9.9542172 ± 0.0168393	0.9274	EXP	150 of 150	44.369484 ± 0.018834	0.9897	EXP	149 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
18D25593	1.8 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25595	1.9 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25596	2.0 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25597	2.1 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25599	2.2 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25600	2.3 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25601	2.4 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25603	2.5 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25604	2.7 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25605	3.0 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25607	3.4 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25608	3.8 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25609	4.2 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25611	4.6 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25612	5.2 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25613	5.8 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25615	6.5 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25616	7.2 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25617	8.0 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25619	8.9 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25620	9.7 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25621	10.6 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25623	11.6 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25624	12.5 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25625	13.4 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25627	14.6 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25628	15.8 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25629	17.6 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25631	18.6 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25632	19.7 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25633	20.9 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01
18D25635	22.5 %	Dan Miggins	18-OSU-04	999.00	999.00	25.13	Oregon\McClaghry (18-09)	18D25589	01

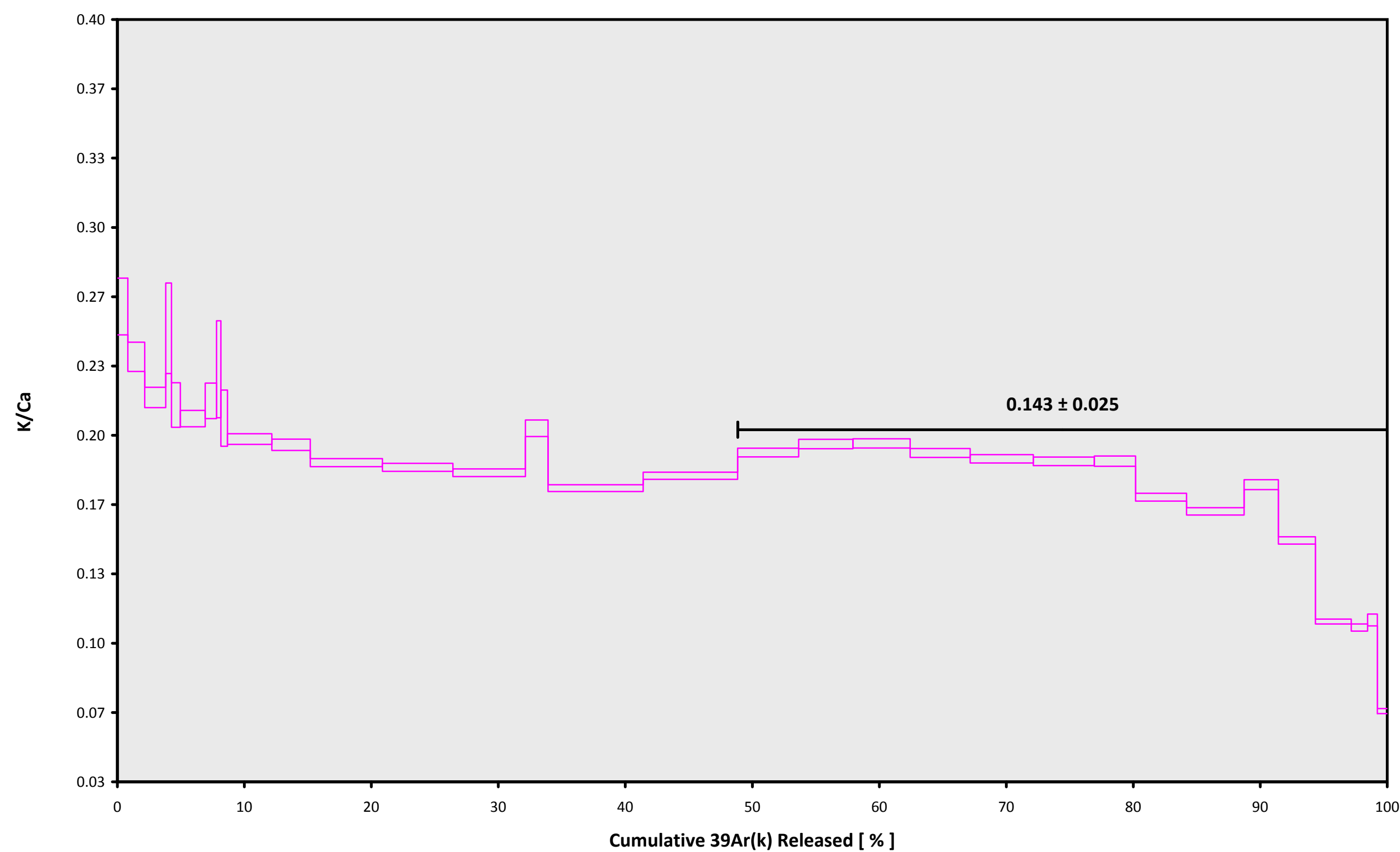
OSU Argon Geochronology Lab CEOAS Oregon State University, Corvallis, USA																								
Sample Parameters		Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air 40Ar/36Ar	%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
18D25593	1.8 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	13	59	1
18D25595	1.9 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	14	25	1
18D25596	2.0 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	14	38	1
18D25597	2.1 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	14	52	1
18D25599	2.2 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	15	18	1
18D25600	2.3 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	15	31	1
18D25601	2.4 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	15	44	1
18D25603	2.5 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	16	10	1
18D25604	2.7 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	16	23	1
18D25605	3.0 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	16	37	1
18D25607	3.4 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	17	4	1
18D25608	3.8 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	17	17	1
18D25609	4.2 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	17	30	1
18D25611	4.6 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	17	57	1
18D25612	5.2 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	18	10	1
18D25613	5.8 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	18	23	1
18D25615	6.5 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	18	49	1
18D25616	7.2 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	19	2	1
18D25617	8.0 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	19	15	1
18D25619	8.9 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	19	42	1
18D25620	9.7 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	19	55	1
18D25621	10.6 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	20	8	1
18D25623	11.6 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	20	34	1
18D25624	12.5 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	20	47	1
18D25625	13.4 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	21	0	1
18D25627	14.6 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	21	27	1
18D25628	15.8 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	21	40	1
18D25629	17.6 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	21	53	1
18D25631	18.6 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	22	19	1
18D25632	19.7 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	22	32	1
18D25633	20.9 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	22	45	1
18D25635	22.5 %	184-MCB-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C15-18)	28.201	0.082	Kuiper et al (2008)	9.95299	0.075	0.00157916	0.075	305.799	0.101	0.9915694	0.063	1	4.8E-14	22	OCT	2018	23	12	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
18D25593	1.8 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25595	1.9 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25596	2.0 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25597	2.1 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25599	2.2 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25600	2.3 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25601	2.4 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25603	2.5 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25604	2.7 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25605	3.0 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25607	3.4 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25608	3.8 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25609	4.2 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25611	4.6 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25612	5.2 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25613	5.8 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25615	6.5 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25616	7.2 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25617	8.0 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25619	8.9 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25620	9.7 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25621	10.6 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25623	11.6 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25624	12.5 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25625	13.4 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25627	14.6 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25628	15.8 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25629	17.6 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25631	18.6 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25632	19.7 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25633	20.9 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
18D25635	22.5 %	291.89	0.432	0.018	35	0.1869	0	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0

18D25589.AGE >>> 184-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



18D25589.AGE >>> 184-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

4.19 ± 0.01

TOTAL FUSION

4.24 ± 0.01

NORMAL ISOCHRON

4.19 ± 0.02

INVERSE ISOCHRON

4.19 ± 0.02

Sample Info

Groundmass

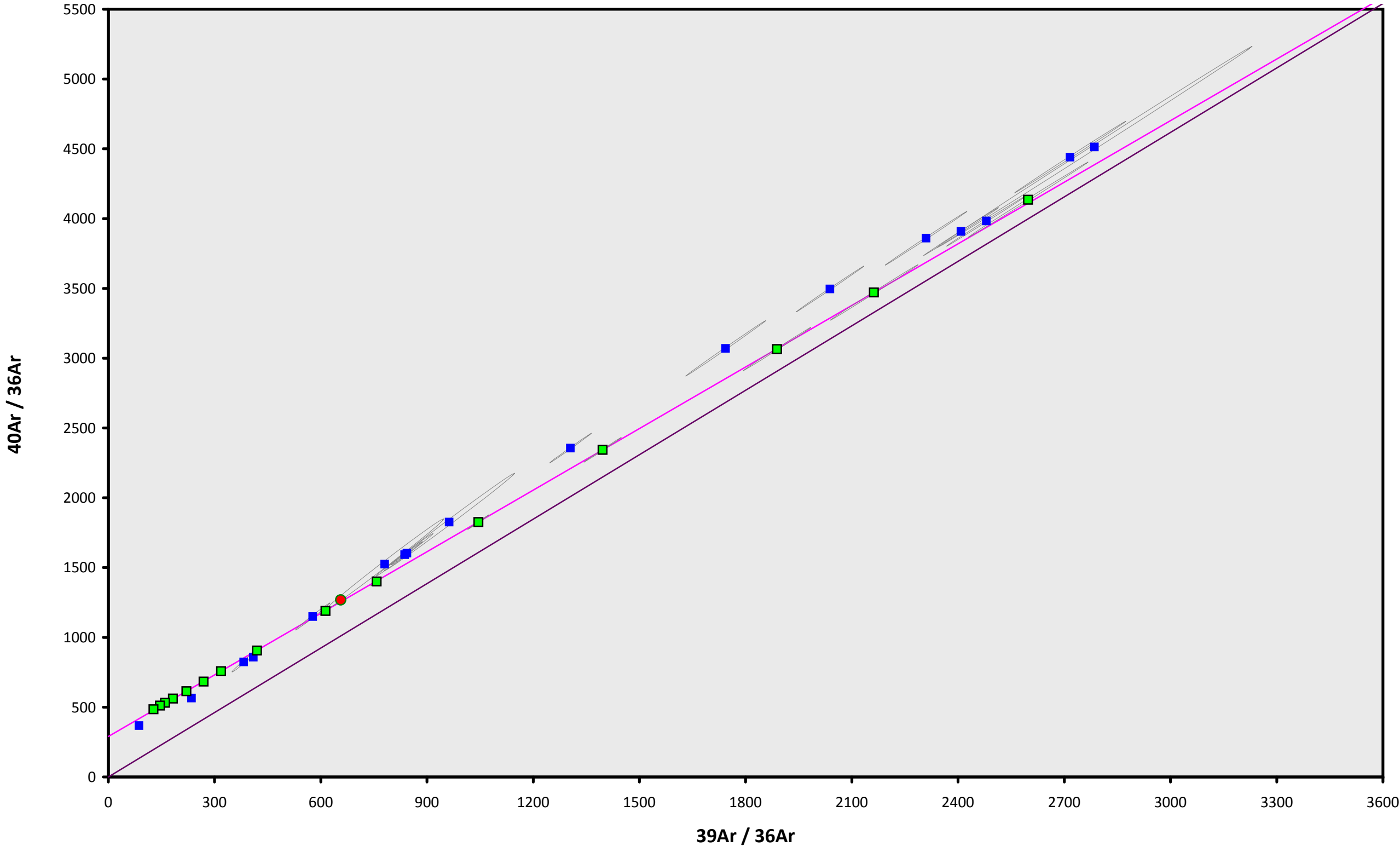
Mill Creek Buttes

Dan Miggins

IRR = 18-OSU-04 (4C15-18)

J = 0.00157916 ± 0.00000118

18D25589.AGE >>> 184-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

4.19 ± 0.01

TOTAL FUSION

4.24 ± 0.01

NORMAL ISOCHRON

4.19 ± 0.02

INVERSE ISOCHRON

4.19 ± 0.02

MSWD (PROBABILITY)

1.87 (3%)

40AR/36AR INTERCEPT

290.5 ± 2.8

Sample Info

Groundmass

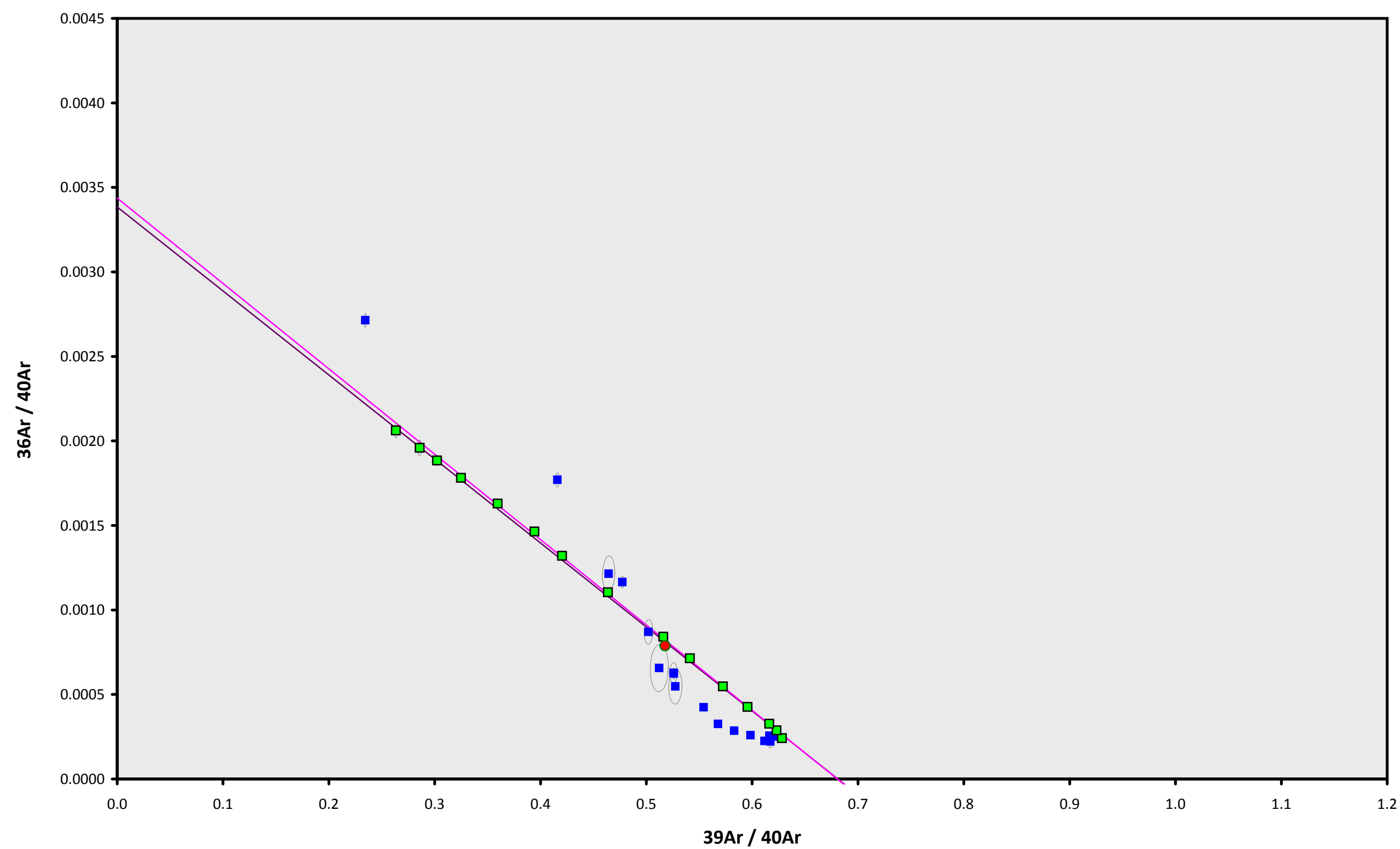
Mill Creek Buttes

Dan Miggins

IRR = 18-OSU-04 (4C15-18)

J = $0.00157916 \pm 0.00000118$

18D25589.AGE >>> 184-MCB-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

4.19 ± 0.01

TOTAL FUSION

4.24 ± 0.01

NORMAL ISOCHRON

4.19 ± 0.02

INVERSE ISOCHRON

4.19 ± 0.02

MSWD (PROBABILITY)

1.94 (2%)

SPREADING FACTOR

53.6%

40AR/36AR INTERCEPT

291.0 ± 2.9

Sample Info

Groundmass

Mill Creek Buttes

Dan Miggins

IRR = 18-OSU-04 (4C15-18)

J = $0.00157916 \pm 0.00000118$