

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
18D25535	1.8 %	0.344715	0.396	10.5787	4.050	0.265519	8.843	13.8545	0.179	107.0354	0.113	0.43407 ± 0.07022	1.23 ± 0.20	5.62	0.59	0.563 ± 0.046
18D25537	1.9 %	0.486421	0.361	30.6913	1.455	0.644559	3.881	43.5658	0.086	160.8350	0.080	0.44836 ± 0.02904	1.27 ± 0.08	12.14	1.86	0.610 ± 0.018
18D25538	2.0 %	0.261422	0.421	27.9848	1.583	0.516929	4.559	39.4655	0.089	91.8763	0.130	0.42684 ± 0.01985	1.21 ± 0.06	18.33	1.69	0.606 ± 0.019
18D25539	2.1 %	0.211736	0.478	28.2037	1.615	0.498281	4.910	38.5045	0.086	76.4101	0.156	0.41759 ± 0.01843	1.18 ± 0.05	21.03	1.64	0.587 ± 0.019
18D25541	2.2 %	0.159998	0.571	31.7277	1.383	0.556068	4.000	42.2327	0.088	63.2230	0.188	0.43715 ± 0.01497	1.24 ± 0.04	29.19	1.80	0.572 ± 0.016
18D25542	2.3 %	0.127870	0.623	30.2586	1.519	0.446397	5.734	39.2288	0.088	52.4069	0.227	0.43394 ± 0.01426	1.23 ± 0.04	32.47	1.68	0.557 ± 0.017
18D25543	2.4 %	0.107738	0.690	25.4232	1.696	0.386062	6.170	33.4813	0.094	43.9828	0.270	0.42303 ± 0.01567	1.20 ± 0.04	32.19	1.43	0.566 ± 0.019
18D25545	2.5 %	0.064688	1.002	18.5516	2.243	0.281871	8.443	23.7705	0.114	28.0658	0.422	0.43849 ± 0.01951	1.24 ± 0.06	37.12	1.02	0.551 ± 0.025
18D25546	2.7 %	0.034917	1.613	7.1968	5.804	0.104335	21.672	9.7492	0.234	13.7506	0.861	0.41064 ± 0.04278	1.16 ± 0.12	29.10	0.42	0.582 ± 0.068
18D25547	3.0 %	0.157900	0.552	47.9448	0.995	0.676922	3.646	57.6510	0.078	67.0997	0.177	0.42060 ± 0.01056	1.19 ± 0.03	36.12	2.46	0.517 ± 0.010
18D25549	3.4 %	0.245114	0.430	114.2653	0.570	1.454591	1.687	123.9795	0.067	117.0740	0.102	0.43335 ± 0.00599	1.22 ± 0.02	45.86	5.29	0.466 ± 0.005
18D25550	3.8 %	0.123769	0.661	60.4270	0.804	0.752336	3.232	64.2235	0.074	59.0660	0.201	0.42502 ± 0.00882	1.20 ± 0.02	46.19	2.74	0.457 ± 0.007
18D25551	4.2 %	0.289431	0.405	173.0495	0.503	2.031652	1.220	171.7006	0.066	144.6807	0.082	0.42469 ± 0.00482	1.20 ± 0.01	50.37	7.33	0.426 ± 0.004
18D25553	4.6 %	0.101835	0.705	89.0106	0.651	1.032117	2.129	87.3444	0.070	59.4871	0.200	0.41761 ± 0.00584	1.18 ± 0.02	61.28	3.73	0.422 ± 0.006
18D25554	5.2 %	0.074321	0.855	62.1261	0.783	0.696888	3.485	59.7572	0.076	41.9321	0.283	0.41690 ± 0.00770	1.18 ± 0.02	59.37	2.55	0.413 ± 0.007
18D25555	5.8 %	0.288878	0.427	284.9618	0.465	3.021944	0.829	256.7661	0.065	170.5319	0.071	0.42003 ± 0.00337	1.19 ± 0.01	63.20	10.96	0.387 ± 0.004
18D25557	6.5 %	0.121436	0.627	116.2501	0.580	1.210942	2.032	101.9751	0.069	68.7998	0.172	0.41353 ± 0.00529	1.17 ± 0.01	61.25	4.35	0.377 ± 0.004
18D25558	7.2 %	0.176490	0.528	172.6058	0.509	1.724920	1.452	144.9617	0.067	98.9728	0.120	0.41780 ± 0.00449	1.18 ± 0.01	61.15	6.19	0.361 ± 0.004
18D25559	8.0 %	0.144345	0.561	125.5688	0.555	1.223879	2.027	101.8528	0.069	74.5894	0.159	0.41174 ± 0.00562	1.16 ± 0.02	56.18	4.35	0.349 ± 0.004
18D25561	8.9 %	0.186501	0.515	143.5318	0.536	1.341357	1.860	110.5288	0.068	89.5852	0.133	0.41536 ± 0.00603	1.17 ± 0.02	51.20	4.72	0.331 ± 0.004
18D25562	9.7 %	0.315347	0.390	178.7189	0.499	1.639024	1.574	135.4752	0.066	134.4255	0.089	0.40952 ± 0.00641	1.16 ± 0.02	41.24	5.78	0.326 ± 0.003
18D25563	10.6 %	0.261701	0.414	104.5247	0.610	0.958977	2.581	79.1556	0.072	100.8828	0.118	0.40272 ± 0.00969	1.14 ± 0.03	31.57	3.38	0.325 ± 0.004
18D25565	11.6 %	0.693214	0.320	168.4244	0.515	1.644740	1.513	126.3848	0.067	241.0743	0.050	0.39283 ± 0.01284	1.11 ± 0.04	20.58	5.40	0.322 ± 0.003
18D25566	12.5 %	0.930491	0.318	123.5552	0.563	1.278700	1.927	92.0773	0.069	300.0355	0.040	0.37923 ± 0.02361	1.07 ± 0.07	11.63	3.93	0.320 ± 0.004
18D25567	13.4 %	1.015997	0.312	114.6810	0.591	1.146870	2.230	76.6085	0.072	320.9043	0.038	0.38926 ± 0.03062	1.10 ± 0.09	9.28	3.27	0.287 ± 0.003
18D25569	14.6 %	0.890896	0.314	80.2655	0.683	0.784897	3.300	48.2132	0.084	275.0460	0.044	0.37727 ± 0.04293	1.07 ± 0.12	6.61	2.06	0.258 ± 0.004
18D25570	15.8 %	1.771243	0.282	142.6249	0.536	1.194036	2.003	67.8526	0.072	535.5672	0.023	0.34706 ± 0.05658	0.98 ± 0.16	4.39	2.90	0.204 ± 0.002
18D25571	17.6 %	1.697460	0.290	124.1287	0.560	0.961920	2.529	51.1173	0.079	511.0461	0.024	0.37876 ± 0.07317	1.07 ± 0.21	3.78	2.18	0.177 ± 0.002
18D25573	18.6 %	1.174198	0.309	76.7191	0.710	0.629191	3.917	31.2532	0.097	350.8037	0.035	0.31851 ± 0.08642	0.90 ± 0.24	2.83	1.33	0.175 ± 0.003
18D25574	19.7 %	1.206009	0.300	74.3627	0.701	0.608070	4.006	28.5819	0.102	360.7953	0.034	0.36251 ± 0.09536	1.02 ± 0.27	2.87	1.22	0.165 ± 0.002
18D25575	20.9 %	0.966052	0.308	61.6295	0.802	0.473045	5.183	23.5767	0.115	289.1592	0.042	0.36534 ± 0.09424	1.03 ± 0.27	2.97	1.01	0.164 ± 0.003
18D25577	22.5 %	0.813735	0.318	47.3598	1.004	0.369208	6.466	17.4240	0.141	241.6242	0.050	0.28390 ± 0.11004	0.80 ± 0.31	2.04	0.74	0.158 ± 0.003

Σ

15.445865

0.078

2897.3524

0.126

30.556247

0.452

2342.3139

0.015

5290.7687

0.013

Information on Analysis and Constants Used in Calculations
Project = MCCLAUGHRY (18-09) Sample = 51-MCD-DRJ-17 Material = Groundmass Location = Mill Creek Buttes Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 18-OSU-04 (4C22-18) Position = X: 999 Y: 999 Z/H: 34.73 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 10.05398 ± 0.00744 FCT-NM J-value = 0.00156330 ± 0.00000116 Air Shot 40Ar/36Ar = 305.8360 ± 0.3395 Air Shot MDF = 0.99154011 ± 0.00063297 (LIN) Experiment Type = Incremental Heating Extraction Method = Bulk Laser Heating Heating = 64 sec Isolation = 5.10 min Instrument = ARGUS-VI-D Preferred Age = Mini Plateau Age Classification = Eruption Age IGSN = Undefined Rock Class = Undefined Lithology = Undefined Lat-Lon = Undefined - Undefined

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau Error Mean		0.41826 ± 0.00275 ± 0.66%	1.18 ± 0.01 ± 0.67% Full External Error ± 0.03 Analytical Error ± 0.01	2.54 1% 2.00 1.5935	46.93 9	0.378 ± 0.025
Total Fusion Age		0.40869 ± 0.00382 ± 0.94%	1.15 ± 0.01 ± 0.95% Full External Error ± 0.03 Analytical Error ± 0.01		32	0.347 ± 0.001
Normal Isochron Error Chron	302.40 ± 11.00 ± 3.64%	0.41113 ± 0.01170 ± 2.85%	1.16 ± 0.03 ± 2.85% Full External Error ± 0.04 Analytical Error ± 0.03	2.65 1% 2.07 1.6283 11 0.0000040565	46.93 9	2σ Confidence Limit Error Magnification Number of Iterations Convergence
Inverse Isochron Error Chron	302.46 ± 10.89 ± 3.60%	0.41119 ± 0.01155 ± 2.81%	1.16 ± 0.03 ± 2.81% Full External Error ± 0.04 Analytical Error ± 0.03	2.62 1% 2.07 1.6181 3 0.0021470417 17%	46.93 9	2σ Confidence Limit Error Magnification Number of Iterations 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
18D25535	1.8 %	0.341848	10.5787	0.0324848	13.8477	6.01093	1.23 ± 0.20	5.62	0.59	0.563 ± 0.046
18D25537	1.9 %	0.478120	30.6913	0.0237689	43.5460	19.52416	1.27 ± 0.08	12.14	1.86	0.610 ± 0.018
18D25538	2.0 %	0.253857	27.9848	0.0000000	39.4475	16.83760	1.21 ± 0.06	18.33	1.69	0.606 ± 0.019
18D25539	2.1 %	0.204112	28.2037	0.0000000	38.4863	16.07157	1.18 ± 0.05	21.03	1.64	0.587 ± 0.019
18D25541	2.2 %	0.151419	31.7277	0.0122589	42.2123	18.45312	1.24 ± 0.04	29.19	1.80	0.572 ± 0.016
18D25542	2.3 %	0.119691	30.2586	0.0000000	39.2094	17.01445	1.23 ± 0.04	32.47	1.68	0.557 ± 0.017
18D25543	2.4 %	0.100866	25.4232	0.0000000	33.4650	14.15661	1.20 ± 0.04	32.19	1.43	0.566 ± 0.019
18D25545	2.5 %	0.059673	18.5516	0.0000000	23.7586	10.41790	1.24 ± 0.06	37.12	1.02	0.551 ± 0.025
18D25546	2.7 %	0.032972	7.1968	0.0000000	9.7446	4.00151	1.16 ± 0.12	29.10	0.42	0.582 ± 0.068
18D25547	3.0 %	0.144940	47.9448	0.0000000	57.6202	24.23491	1.19 ± 0.03	36.12	2.46	0.517 ± 0.010
18D25549	3.4 %	0.214228	114.2653	0.0000000	123.9061	53.69449	1.22 ± 0.02	45.86	5.29	0.466 ± 0.005
18D25550	3.8 %	✓ 0.107435	60.4270	0.0000000	64.1846	27.27992	1.20 ± 0.02	46.19	2.74	0.457 ± 0.007
18D25551	4.2 %	✓ 0.242656	173.0495	0.0000000	171.5894	72.87171	1.20 ± 0.01	50.37	7.33	0.426 ± 0.004
18D25553	4.6 %	✓ 0.077775	89.0106	0.0000000	87.2872	36.45163	1.18 ± 0.02	61.28	3.73	0.422 ± 0.006
18D25554	5.2 %	✓ 0.057528	62.1261	0.0000000	59.7173	24.89638	1.18 ± 0.02	59.37	2.55	0.413 ± 0.007
18D25555	5.8 %	✓ 0.211853	284.9618	0.0000000	256.5831	107.77366	1.19 ± 0.01	63.20	10.96	0.387 ± 0.004
18D25557	6.5 %	✓ 0.090013	116.2501	0.0000000	101.9004	42.13903	1.17 ± 0.01	61.25	4.35	0.377 ± 0.004
18D25558	7.2 %	✓ 0.129835	172.6058	0.0000000	144.8508	60.51865	1.18 ± 0.01	61.15	6.19	0.361 ± 0.004
18D25559	8.0 %	✓ 0.110404	125.5688	0.0000000	101.7721	41.90329	1.16 ± 0.02	56.18	4.35	0.349 ± 0.004
18D25561	8.9 %	✓ 0.147704	143.5318	0.0000000	110.4366	45.87146	1.17 ± 0.02	51.20	4.72	0.331 ± 0.004
18D25562	9.7 %	0.267039	178.7189	0.0000000	135.3604	55.43336	1.16 ± 0.02	41.24	5.78	0.326 ± 0.003
18D25563	10.6 %	0.233448	104.5247	0.0000000	79.0884	31.85079	1.14 ± 0.03	31.57	3.38	0.325 ± 0.004
18D25565	11.6 %	0.647689	168.4244	0.0000000	126.2766	49.60550	1.11 ± 0.04	20.58	5.40	0.322 ± 0.003
18D25566	12.5 %	0.897095	123.5552	0.0000000	91.9980	34.88820	1.07 ± 0.07	11.63	3.93	0.320 ± 0.004
18D25567	13.4 %	0.984994	114.6810	0.0178216	76.5348	29.79201	1.10 ± 0.09	9.28	3.27	0.287 ± 0.003
18D25569	14.6 %	0.869195	80.2655	0.0263491	48.1616	18.16979	1.07 ± 0.12	6.61	2.06	0.258 ± 0.004
18D25570	15.8 %	1.732686	142.6249	0.0261746	67.7610	23.51732	0.98 ± 0.16	4.39	2.90	0.204 ± 0.002
18D25571	17.6 %	1.663906	124.1287	0.0122130	51.0375	19.33096	1.07 ± 0.21	3.78	2.18	0.177 ± 0.002
18D25573	18.6 %	1.153455	76.7191	0.0229507	31.2039	9.93874	0.90 ± 0.24	2.83	1.33	0.175 ± 0.003
18D25574	19.7 %	1.185902	74.3627	0.0284325	28.5342	10.34395	1.02 ± 0.27	2.87	1.22	0.165 ± 0.002
18D25575	20.9 %	0.949393	61.6295	0.0002523	23.5371	8.59917	1.03 ± 0.27	2.97	1.01	0.164 ± 0.003
18D25577	22.5 %	0.800933	47.3598	0.0009274	17.3935	4.93794	0.80 ± 0.31	2.04	0.74	0.158 ± 0.003
Σ		14.662664	2897.3524	0.2036339	2340.4524	956.53072				

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 = 51-MCD-DRJ-17 Material = Groundmass Location = Mill Creek Buttes Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 18-OSU-04 (4C22-18) J = 0.00156330 ± 0.00000116 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau Error Mean	0.41826 ± 0.00275 ± 0.66%	1.18 ± 0.01 ± 0.67%	2.54 1%	46.93 9	0.378 ± 0.025
			Full External Error ± 0.03 Analytical Error ± 0.01	2.00 1.5935	2σ Confidence Limit Error Magnification	
	Total Fusion Age	0.40869 ± 0.00382 ± 0.94%	1.15 ± 0.01 ± 0.95%		32	0.347 ± 0.001
			Full External Error ± 0.03 Analytical Error ± 0.01			

Normal Isochron		39(k)/36(a) ± 2σ		40(a+r)/36(a) ± 2σ	r.i.
18D25535	1.8 %		40.51 ± 0.36	313.08 ± 2.61	0.8790
18D25537	1.9 %		91.08 ± 0.69	336.34 ± 2.54	0.9517
18D25538	2.0 %		155.39 ± 1.38	361.83 ± 3.30	0.9392
18D25539	2.1 %		188.55 ± 1.91	374.24 ± 3.92	0.9407
18D25541	2.2 %		278.78 ± 3.43	417.37 ± 5.32	0.9453
18D25542	2.3 %		327.59 ± 4.45	437.65 ± 6.22	0.9396
18D25543	2.4 %		331.78 ± 4.99	435.85 ± 6.92	0.9327
18D25545	2.5 %		398.14 ± 8.83	470.08 ± 11.10	0.9289
18D25546	2.7 %		295.54 ± 10.39	416.86 ± 16.20	0.8885
18D25547	3.0 %		397.54 ± 4.88	462.71 ± 5.86	0.9525
18D25549	3.4 %		578.38 ± 5.82	546.14 ± 5.56	0.9710
18D25550	3.8 %	✓	597.43 ± 9.26	549.42 ± 8.76	0.9633
18D25551	4.2 %	✓	707.13 ± 7.04	595.81 ± 5.96	0.9775
18D25553	4.6 %	✓	1122.30 ± 21.30	764.18 ± 14.78	0.9757
18D25554	5.2 %	✓	1038.06 ± 23.50	728.27 ± 16.96	0.9678
18D25555	5.8 %	✓	1211.14 ± 14.86	804.22 ± 9.88	0.9877
18D25557	6.5 %	✓	1132.06 ± 19.79	763.64 ± 13.56	0.9779
18D25558	7.2 %	✓	1115.65 ± 16.66	761.62 ± 11.48	0.9831
18D25559	8.0 %	✓	921.82 ± 13.97	675.05 ± 10.42	0.9742
18D25561	8.9 %	✓	747.69 ± 10.03	606.06 ± 8.25	0.9754
18D25562	9.7 %		506.89 ± 4.81	503.09 ± 4.81	0.9729
18D25563	10.6 %		338.78 ± 3.23	431.94 ± 4.19	0.9588
18D25565	11.6 %		194.96 ± 1.37	372.09 ± 2.59	0.9714
18D25566	12.5 %		102.55 ± 0.69	334.39 ± 2.23	0.9715
18D25567	13.4 %		77.70 ± 0.51	325.75 ± 2.12	0.9696
18D25569	14.6 %		55.41 ± 0.37	316.40 ± 2.06	0.9587
18D25570	15.8 %		39.11 ± 0.23	309.07 ± 1.79	0.9671
18D25571	17.6 %		30.67 ± 0.19	307.12 ± 1.82	0.9623
18D25573	18.6 %		27.05 ± 0.18	304.12 ± 1.93	0.9499
18D25574	19.7 %		24.06 ± 0.16	304.22 ± 1.87	0.9425
18D25575	20.9 %		24.79 ± 0.17	304.56 ± 1.93	0.9307
18D25577	22.5 %		21.72 ± 0.15	301.67 ± 1.98	0.9055

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	302.40 ± 11.00	0.41113 ± 0.01170	1.16 ± 0.03	2.65
Error Chron	± 3.64%	± 2.85%	± 2.85%	1%
			Full External Error ± 0.04	
			Analytical Error ± 0.03	
Statistics	2σ Confidence Limit	2.07	Convergence	0.000004056451
	Error Magnification	1.6283	Number of Iterations	11
	Number of Data Points	9	Calculated Line	Weighted York-2

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
18D25535	1.8 %		0.1293853 ± 0.0005478	0.00319403 ± 0.00002663	0.1458
18D25537	1.9 %		0.2707943 ± 0.0006357	0.00297322 ± 0.00002241	0.1435
18D25538	2.0 %		0.4294664 ± 0.0013516	0.00276375 ± 0.00002518	0.2351
18D25539	2.1 %		0.5038357 ± 0.0017969	0.00267209 ± 0.00002799	0.2605
18D25541	2.2 %		0.6679432 ± 0.0027811	0.00239597 ± 0.00003051	0.2682
18D25542	2.3 %		0.7485119 ± 0.0036447	0.00228491 ± 0.00003248	0.2974
18D25543	2.4 %		0.7612167 ± 0.0043599	0.00229436 ± 0.00003642	0.3219
18D25545	2.5 %		0.8469667 ± 0.0074119	0.00212729 ± 0.00005023	0.3454
18D25546	2.7 %		0.7089730 ± 0.0126535	0.00239888 ± 0.00009323	0.4276
18D25547	3.0 %		0.8591725 ± 0.0033182	0.00216120 ± 0.00002738	0.2554
18D25549	3.4 %		1.0590375 ± 0.0025841	0.00183103 ± 0.00001865	0.1674
18D25550	3.8 %	✓	1.0873763 ± 0.0046578	0.00182010 ± 0.00002902	0.2366
18D25551	4.2 %	✓	1.1868412 ± 0.0025127	0.00167839 ± 0.00001680	0.1295
18D25553	4.6 %	✓	1.4686366 ± 0.0062236	0.00130859 ± 0.00002531	0.1952
18D25554	5.2 %	✓	1.4253738 ± 0.0083564	0.00137312 ± 0.00003197	0.2348
18D25555	5.8 %	✓	1.5059798 ± 0.0029028	0.00124344 ± 0.00001527	0.0857
18D25557	6.5 %	✓	1.4824485 ± 0.0055068	0.00130951 ± 0.00002326	0.1804
18D25558	7.2 %	✓	1.4648424 ± 0.0040426	0.00131299 ± 0.00001978	0.1402
18D25559	8.0 %	✓	1.3655636 ± 0.0047551	0.00148138 ± 0.00002286	0.1900
18D25561	8.9 %	✓	1.2336786 ± 0.0037019	0.00165000 ± 0.00002245	0.1747
18D25562	9.7 %		1.0075704 ± 0.0022358	0.00198773 ± 0.00001901	0.1487
18D25563	10.6 %		0.7843370 ± 0.0021688	0.00231516 ± 0.00002248	0.2080
18D25565	11.6 %		0.5239744 ± 0.0008770	0.00268753 ± 0.00001873	0.0860
18D25566	12.5 %		0.3066807 ± 0.0004925	0.00299052 ± 0.00001994	0.0610
18D25567	13.4 %		0.2385317 ± 0.0003863	0.00306988 ± 0.00001995	0.0539
18D25569	14.6 %		0.1751224 ± 0.0003319	0.00316051 ± 0.00002054	0.0626
18D25570	15.8 %		0.1265317 ± 0.0001916	0.00323548 ± 0.00001875	0.0245
18D25571	17.6 %		0.0998748 ± 0.0001663	0.00325608 ± 0.00001932	0.0240
18D25573	18.6 %		0.0889547 ± 0.0001833	0.00328821 ± 0.00002082	0.0365
18D25574	19.7 %		0.0790907 ± 0.0001705	0.00328707 ± 0.00002021	0.0350
18D25575	20.9 %		0.0814026 ± 0.0001990	0.00328345 ± 0.00002077	0.0455
18D25577	22.5 %		0.0719890 ± 0.0002161	0.00331493 ± 0.00002171	0.0504

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	302.46 ± 10.89	0.41119 ± 0.01155	1.16 ± 0.03	2.62
Error Chron	± 3.60%	± 2.81%	± 2.81%	1%
			Full External Error ± 0.04	
			Analytical Error ± 0.03	
Statistics	2σ Confidence Limit	2.07	Convergence	0.0021470417
	Error Magnification	1.6181	Number of Iterations	3
	Number of Data Points	9	Calculated Line	Weighted York-2
	Spreading Factor	17.2%		

Degassing Patterns		36Ar(a) [fA]	%1σ	36Ar(c) [fA]	%1σ	36Ar(ca) [fA]	%1σ	36Ar(cl) [fA]	%1σ	37Ar(ca) [fA]	%1σ	38Ar(a) [fA]	%1σ	38Ar(c) [fA]	%1σ	38Ar(k) [fA]	%1σ	38Ar(ca) [fA]	%1σ	38Ar(cl) [fA]	%1σ	39Ar(k) [fA]	%1σ	39Ar(ca) [fA]	%1σ	40Ar(r) [fA]	%1σ	40Ar(a) [fA]	%1σ	40Ar(c) [fA]	%1σ	40Ar(k) [fA]	%1σ
18D25535	1.8 %	0.341848	0.40	0.0000000	0.00	0.0028594	4.05	0.0000074	72.31	10.5787	4.05	0.0638914	0.40	0.00000000	0.00	0.167239	0.20	0.0019042	10.45	0.0324848	72.31	13.8477	0.18	0.0067968	4.15	6.01093	8.09	101.0161	0.47	0.0000000	0.00	0.0084056	9.65
18D25537	1.9 %	0.478120	0.37	0.0000000	0.00	0.0082958	1.46	0.0000054	105.32	30.6913	1.45	0.0893606	0.37	0.00000000	0.00	0.525906	0.12	0.0055244	9.74	0.0237689	105.32	43.5460	0.09	0.0197191	1.72	19.52416	3.24	141.2844	0.44	0.0000000	0.00	0.0264324	9.65
18D25538	2.0 %	0.253857	0.44	0.0000000	0.00	0.0075643	1.59	0.0000000	0.00	27.9848	1.58	0.0474459	0.44	0.00000000	0.00	0.476408	0.13	0.0050373	9.76	0.00000000	0.00	39.4475	0.09	0.0179803	1.83	16.83760	2.32	75.0148	0.50	0.0000000	0.00	0.0239446	9.65
18D25539	2.1 %	0.204112	0.50	0.0000000	0.00	0.0076235	1.62	0.0000000	0.00	28.2037	1.61	0.0381486	0.50	0.00000000	0.00	0.464800	0.12	0.0050767	9.76	0.00000000	0.00	38.4863	0.09	0.0181209	1.86	16.07157	2.21	60.3151	0.55	0.0000000	0.00	0.0233612	9.65
18D25541	2.2 %	0.151419	0.61	0.0000000	0.00	0.0085760	1.39	0.0000028	181.59	31.7277	1.38	0.0283002	0.61	0.00000000	0.00	0.509798	0.13	0.0057110	9.73	0.0122589	181.59	42.2123	0.09	0.0203851	1.66	18.45312	1.71	44.7443	0.65	0.0000000	0.00	0.0256229	9.65
18D25542	2.3 %	0.119691	0.67	0.0000000	0.00	0.0081789	1.53	0.0000000	0.00	30.2586	1.52	0.0223702	0.67	0.00000000	0.00	0.473532	0.13	0.0054466	9.75	0.00000000	0.00	39.2094	0.09	0.0194412	1.78	17.01445	1.64	35.3687	0.71	0.0000000	0.00	0.0238001	9.65
18D25543	2.4 %	0.100866	0.75	0.0000000	0.00	0.0068719	1.70	0.0000000	0.00	25.4232	1.70	0.0188518	0.75	0.00000000	0.00	0.404156	0.13	0.0045762	9.78	0.00000000	0.00	33.4650	0.09	0.0163344	1.93	14.15661	1.85	29.8058	0.78	0.0000000	0.00	0.0203132	9.65
18D25545	2.5 %	0.059673	1.10	0.0000000	0.00	0.0050145	2.25	0.0000000	0.00	18.5516	2.24	0.0111529	1.10	0.00000000	0.00	0.286932	0.15	0.0033393	9.89	0.00000000	0.00	23.7586	0.11	0.0119194	2.42	10.41790	2.22	17.6334	1.13	0.0000000	0.00	0.0144214	9.65
18D25546	2.7 %	0.032972	1.74	0.0000000	0.00	0.0019453	5.81	0.0000000	0.00	7.1968	5.80	0.0061624	1.74	0.00000000	0.00	0.117686	0.25	0.0012954	11.24	0.00000000	0.00	9.7446	0.23	0.0046239	5.88	4.00151	5.20	9.7432	1.76	0.0000000	0.00	0.0059150	9.65
18D25547	3.0 %	0.144940	0.61	0.0000000	0.00	0.0129595	1.01	0.0000000	0.00	47.9448	0.99	0.0270893	0.61	0.00000000	0.00	0.695879	0.12	0.0086301	9.68	0.00000000	0.00	57.6202	0.08	0.0308045	1.35	24.23491	1.25	42.8298	0.65	0.0000000	0.00	0.0349754	9.65
18D25549	3.4 %	0.214228	0.50	0.0000000	0.00	0.0308859	0.60	0.0000000	0.00	114.2653	0.57	0.0400392	0.50	0.00000000	0.00	1.496414	0.11	0.0205678	9.65	0.00000000	0.00	123.9061	0.07	0.0734155	1.08	53.69449	0.69	63.3043	0.55	0.0000000	0.00	0.0752110	9.65
18D25550	3.8 %	✓ 0.107435	0.77	0.0000000	0.00	0.0163334	0.82	0.0000000	0.00	60.4270	0.80	0.0200797	0.77	0.00000000	0.00	0.775158	0.12	0.0108769	9.66	0.00000000	0.00	64.1846	0.07	0.0388244	1.22	27.27992	1.03	31.7472	0.81	0.0000000	0.00	0.0389601	9.65
18D25551	4.2 %	✓ 0.242656	0.49	0.0000000	0.00	0.0467753	0.53	0.0000000	0.00	173.0495	0.50	0.0453524	0.49	0.00000000	0.00	2.072286	0.11	0.0311489	9.64	0.00000000	0.00	171.5894	0.07	0.1111843	1.05	72.87171	0.56	71.7049	0.55	0.0000000	0.00	0.1041548	9.65
18D25553	4.6 %	✓ 0.077775	0.95	0.0000000	0.00	0.0240596	0.67	0.0000000	0.00	89.0106	0.65	0.0145362	0.95	0.00000000	0.00	1.054167	0.11	0.0160219	9.65	0.00000000	0.00	87.2872	0.07	0.0571893	1.13	36.45163	0.70	22.9825	0.98	0.0000000	0.00	0.0529833	9.65
18D25554	5.2 %	✓ 0.057528	1.13	0.0000000	0.00	0.0167927	0.80	0.0000000	0.00	62.1261	0.78	0.0107520	1.13	0.00000000	0.00	0.721206	0.12	0.0111827	9.66	0.00000000	0.00	59.7173	0.08	0.0399160	1.21	24.89638	0.92	16.9995	1.15	0.0000000	0.00	0.0362484	9.65
18D25555	5.8 %	✓ 0.211853	0.61	0.0000000	0.00	0.0770252	0.50	0.0000000	0.00	284.9618	0.47	0.0395953	0.61	0.00000000	0.00	3.098754	0.11	0.0512931	9.64	0.00000000	0.00	256.5831	0.06	0.1830880	1.03	107.77366	0.40	62.6025	0.65	0.0000000	0.00	0.1557459	9.65
18D25557	6.5 %	✓ 0.090013	0.87	0.0000000	0.00	0.0314224	0.60	0.0000000	0.00	116.2501	0.58	0.0168235	0.87	0.00000000	0.00	1.230651	0.11	0.0209250	9.65	0.00000000	0.00	101.9004	0.07	0.0746907	1.09	42.13903	0.64	26.5989	0.90	0.0000000	0.00	0.0618536	9.65
18D25558	7.2 %	✓ 0.129835	0.74	0.0000000	0.00	0.0466553	0.54	0.0000000	0.00	172.6058	0.51	0.0242662	0.74	0.00000000	0.00	1.749363	0.11	0.0310690	9.64	0.00000000	0.00	144.8508	0.07	0.1108992	1.05	60.51865	0.53	38.3663	0.78	0.0000000	0.00	0.0879244	9.65
18D25559	8.0 %	✓ 0.110404	0.75	0.0000000	0.00	0.0339412	0.58	0.0000000	0.00	125.5688	0.55	0.0206344	0.75	0.00000000	0.00	1.229102	0.11	0.0226024	9.65	0.00000000	0.00	101.7721	0.07	0.0806780	1.07	41.90329	0.68	32.6243	0.79	0.0000000	0.00	0.0617757	9.65
18D25561	8.9 %	✓ 0.147704	0.67	0.0000000	0.00	0.0387966	0.56	0.0000000	0.00	143.5318	0.54	0.0276060	0.67	0.00000000	0.00	1.333743	0.11	0.0258357	9.64	0.00000000	0.00	110.4366	0.07	0.0922192	1.06	45.87146	0.72	43.6467	0.71	0.0000000	0.00	0.0670350	9.65
18D25562	9.7 %	0.267039	0.47	0.0000000	0.00	0.0483077	0.53	0.0000000	0.00	178.7189	0.50	0.0499096	0.47	0.00000000	0.00	1.634748	0.11	0.0321694	9.64	0.00000000	0.00	135.3604	0.07	0.1148269	1.05	55.43336	0.78	78.9100	0.53	0.0000000	0.00	0.0821638	9.65
18D25563	10.6 %	0.233448	0.47	0.0000000	0.00	0.0282530	0.63	0.0000000	0.00	104.5247	0.61	0.0436315	0.47	0.00000000	0.00	0.955151	0.12	0.0188145	9.65	0.00000000	0.00	79.0884	0.07	0.0671571	1.10	31.85079	1.20	68.9840	0.53	0.0000000	0.00	0.0480067	9.65
18D25565	11.6 %	0.647689	0.34	0.0000000	0.00	0.0455251	0.54	0.0000000	0.00	168.4244	0.52	0.1210531	0.34	0.00000000	0.00	1.525042	0.11	0.0303164	9.64	0.00000000	0.00	126.2766	0.07	0.1082127	1.05	49.60550	1.63	191.3921	0.42	0.0000000	0.00	0.0766499	9.65
18D25566	12.5 %	0.897095	0.33	0.0000000	0.00	0.0333970	0.59	0.0000000	0.00	123.5552	0.56	0.1676670	0.33	0.00000000	0.00	1.111059	0.11	0.0222399	9.65	0.00000000	0.00	91.9980	0.07	0.0793842	1.08	34.88820	3.11	265.0914	0.41	0.0000000	0.00	0.0558428	9.65
18D25567	13.4 %	0.984994	0.32	0.0000000	0.00	0.0309983	0.61	0.0000040	144.14	114.6810	0.59	0.1840954	0.32	0.00000000	0.00	0.924310	0.12	0.0206426	9.65	0.0178216	144.14	76.5348	0.07	0.0736826	1.09	29.79201	3.93	291.0658	0.40	0.0000000	0.00	0.0464566	9.65
18D25569	14.6 %	0.869195	0.32	0.0000000	0.00	0.0216958	0.70	0.0000060	98.50	80.2655	0.68	0.1624525	0.32	0.00000000	0.00	0.581648	0.12	0.0144478	9.65	0.0263491	98.50	48.1616	0.08	0.0515706	1.15	18.16979	5.69	256.8470	0.40	0.0000000	0.00	0.0292341	9.65
18D25570	15.8 %	1.732686	0.29	0.0000000	0.00	0.0385515	0.56	0.0000059	92.03	142.6249	0.54	0.3238390	0.29	0.00000000	0.00	0.818350	0.12	0.0256725	9.64	0.0261746	92.04	67.7610	0.07	0.0916365	1.06	23.51732	8.15	512.0087	0.37	0.0000000	0.00	0.0411309	9.65
18D25571	17.6 %	1.663906	0.30	0.0000000	0.00	0.0335520	0.59	0.0000028	200.20	124.1287	0.56	0.3109840	0.30	0.00000000	0.00	0.616380	0.12	0.0223432	9.65	0.0122130	200.21	51.0375	0.08	0.0797527	1.08	19.33096	9.66	491.6841	0.38	0.0000000	0.00	0.0309798	9.65
18D25573	18.6 %	1.153455	0.31	0.0000000	0.00	0.0207372	0.73	0.0000052	107.62	76.7191	0.71	0.2155808	0.31	0.00000000	0.00	0.376850	0.13	0.0138094	9.66	0.0229507	107.63	31.2039	0.10	0.0492920	1.16	9.93874	13.57	340.8460	0.39	0.0000000	0.00	0.0189408	9.65
18D25574	19.7 %	1.185902	0.31	0.0000000	0.00	0.0201002	0.72	0.0000065	85.86	74.3627	0.70	0.2216451	0.31	0.00000000	0.00	0.344607	0.14	0.0133853	9.66	0.0284325	85.86	28.5342	0.10	0.0477781	1.16	10.34395	13.15	350.4341	0.39	0.0000000	0.00	0.0173202	9.65
18D25575	20.9 %	0.949393	0.31	0.0000000	0.00	0.0166584	0.82	0.0000001	#####	61.6295	0.80	0.1774416	0.31	0.00000000	0.00	0.284258	0.15	0.0110933	9.66	0.000													

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
18D25535	1.8 %	7.725668	0.016347	0.763556	0.030955	0.024881	0.000108	139.461	15.754150	1.00098540	5.138E-12
18D25537	1.9 %	3.691776	0.004331	0.704481	0.010266	0.011165	0.000041	139.479	15.759770	1.00098553	7.720E-12
18D25538	2.0 %	2.328017	0.003662	0.709096	0.011246	0.006624	0.000029	139.488	15.762580	1.00098560	4.410E-12
18D25539	2.1 %	1.984447	0.003537	0.732479	0.011846	0.005499	0.000027	139.497	15.765391	1.00098566	3.668E-12
18D25541	2.2 %	1.497017	0.003115	0.751260	0.010409	0.003788	0.000022	139.515	15.771015	1.00098579	3.035E-12
18D25542	2.3 %	1.335929	0.003250	0.771337	0.011737	0.003260	0.000021	139.524	15.773827	1.00098585	2.516E-12
18D25543	2.4 %	1.313652	0.003760	0.759326	0.012902	0.003218	0.000022	139.534	15.776857	1.00098592	2.111E-12
18D25545	2.5 %	1.180699	0.005163	0.780447	0.017528	0.002721	0.000027	139.552	15.782484	1.00098605	1.347E-12
18D25546	2.7 %	1.410429	0.012581	0.738185	0.042878	0.003582	0.000058	139.561	15.785299	1.00098611	6.600E-13
18D25547	3.0 %	1.163895	0.002246	0.831638	0.008296	0.002739	0.000015	139.570	15.788114	1.00098617	3.221E-12
18D25549	3.4 %	0.944301	0.001150	0.921647	0.005292	0.001977	0.000009	139.588	15.793745	1.00098630	5.620E-12
18D25550	3.8 %	✓0.919696	0.001968	0.940887	0.007595	0.001927	0.000013	139.597	15.796562	1.00098637	2.835E-12
18D25551	4.2 %	✓0.842634	0.000889	1.007856	0.005115	0.001686	0.000007	139.606	15.799379	1.00098643	6.945E-12
18D25553	4.6 %	✓0.681064	0.001441	1.019077	0.006667	0.001166	0.000008	139.625	15.805231	1.00098656	2.855E-12
18D25554	5.2 %	✓0.701708	0.002054	1.039641	0.008175	0.001244	0.000011	139.634	15.808050	1.00098663	2.013E-12
18D25555	5.8 %	✓0.664153	0.000637	1.109811	0.005215	0.001125	0.000005	139.643	15.810869	1.00098669	8.186E-12
18D25557	6.5 %	✓0.674672	0.001251	1.139985	0.006657	0.001191	0.000008	139.661	15.816509	1.00098682	3.302E-12
18D25558	7.2 %	✓0.682752	0.000939	1.190699	0.006117	0.001217	0.000006	139.670	15.819329	1.00098688	4.751E-12
18D25559	8.0 %	✓0.732325	0.001273	1.232845	0.006891	0.001417	0.000008	139.679	15.822150	1.00098694	3.580E-12
18D25561	8.9 %	✓0.810514	0.001214	1.298591	0.007022	0.001687	0.000009	139.698	15.828011	1.00098708	4.300E-12
18D25562	9.7 %	0.992252	0.001099	1.319199	0.006640	0.002328	0.000009	139.707	15.830834	1.00098714	6.452E-12
18D25563	10.6 %	1.274487	0.001760	1.320497	0.008105	0.003306	0.000014	139.716	15.833657	1.00098720	4.842E-12
18D25565	11.6 %	1.907462	0.001594	1.332631	0.006924	0.005485	0.000018	139.734	15.839305	1.00098733	1.157E-11
18D25566	12.5 %	3.258516	0.002614	1.341863	0.007608	0.010106	0.000033	139.743	15.842130	1.00098740	1.440E-11
18D25567	13.4 %	4.188889	0.003389	1.496976	0.008908	0.013262	0.000042	139.752	15.844955	1.00098746	1.540E-11
18D25569	14.6 %	5.704790	0.005401	1.664804	0.011449	0.018478	0.000060	139.771	15.850824	1.00098759	1.320E-11
18D25570	15.8 %	7.893093	0.005968	2.101981	0.011369	0.026104	0.000076	139.780	15.853651	1.00098766	2.571E-11
18D25571	17.6 %	9.997522	0.008310	2.428313	0.013731	0.033207	0.000100	139.789	15.856478	1.00098772	2.453E-11
18D25573	18.6 %	11.224556	0.011546	2.454758	0.017582	0.037570	0.000122	139.807	15.862134	1.00098785	1.684E-11
18D25574	19.7 %	12.623190	0.013582	2.601738	0.018434	0.042195	0.000134	139.816	15.864963	1.00098791	1.732E-11
18D25575	20.9 %	12.264597	0.014967	2.613995	0.021185	0.040975	0.000135	139.825	15.867792	1.00098797	1.388E-11
18D25577	22.5 %	13.867357	0.020776	2.718085	0.027560	0.046702	0.000163	139.844	15.873670	1.00098811	1.160E-11

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
18D25535	1.8 %	0.0227262 ± 0.0003509	0.0239993 ± 0.0185385	0.0583964 ± 0.0168054	0.0340586 ± 0.0155131	6.4933965 ± 0.1169540
18D25537	1.9 %	0.0234245 ± 0.0003509	0.0277298 ± 0.0185385	0.0556985 ± 0.0168054	0.0176197 ± 0.0155131	6.5667496 ± 0.1169540
18D25538	2.0 %	0.0236259 ± 0.0003509	0.0288717 ± 0.0185385	0.0539793 ± 0.0168054	0.0122610 ± 0.0155131	6.5831857 ± 0.1169540
18D25539	2.1 %	0.0237449 ± 0.0003509	0.0296198 ± 0.0185385	0.0521047 ± 0.0168054	0.0085037 ± 0.0155131	6.5884353 ± 0.1169540
18D25541	2.2 %	0.0237806 ± 0.0003509	0.0301780 ± 0.0185385	0.0481336 ± 0.0168054	0.0049507 ± 0.0155131	6.5717913 ± 0.1169540
18D25542	2.3 %	0.0237182 ± 0.0003509	0.0301003 ± 0.0185385	0.0461467 ± 0.0168054	0.0047648 ± 0.0155131	6.5528961 ± 0.1169540
18D25543	2.4 %	0.0236057 ± 0.0003509	0.0298286 ± 0.0185385	0.0440798 ± 0.0168054	0.0054778 ± 0.0155131	6.5267809 ± 0.1169540
18D25545	2.5 %	0.0233091 ± 0.0003509	0.0289972 ± 0.0185385	0.0406121 ± 0.0168054	0.0086438 ± 0.0155131	6.4677049 ± 0.1169540
18D25546	2.7 %	0.0231343 ± 0.0003509	0.0285053 ± 0.0185385	0.0391296 ± 0.0168054	0.0108299 ± 0.0155131	6.4353720 ± 0.1169540
18D25547	3.0 %	0.0229513 ± 0.0003509	0.0280108 ± 0.0185385	0.0378523 ± 0.0168054	0.0132460 ± 0.0155131	6.4025780 ± 0.1169540
18D25549	3.4 %	0.0225864 ± 0.0003509	0.0271353 ± 0.0185385	0.0359959 ± 0.0168054	0.0183278 ± 0.0155131	6.3393093 ± 0.1169540
18D25550	3.8 %	0.0224155 ± 0.0003509	0.0268057 ± 0.0185385	0.0354459 ± 0.0168054	0.0208041 ± 0.0155131	6.3104758 ± 0.1169540
18D25551	4.2 %	0.0222586 ± 0.0003509	0.0265761 ± 0.0185385	0.0351588 ± 0.0168054	0.0231318 ± 0.0155131	6.2844637 ± 0.1169540
18D25553	4.6 %	0.0219946 ± 0.0003509	0.0264853 ± 0.0185385	0.0354059 ± 0.0168054	0.0272298 ± 0.0155131	6.2420065 ± 0.1169540
18D25554	5.2 %	0.0219037 ± 0.0003509	0.0266494 ± 0.0185385	0.0359190 ± 0.0168054	0.0287554 ± 0.0155131	6.2281402 ± 0.1169540
18D25555	5.8 %	0.0218395 ± 0.0003509	0.0269563 ± 0.0185385	0.0366718 ± 0.0168054	0.0299511 ± 0.0155131	6.2190576 ± 0.1169540
18D25557	6.5 %	0.0217967 ± 0.0003509	0.0279986 ± 0.0185385	0.0388182 ± 0.0168054	0.0313136 ± 0.0155131	6.2162315 ± 0.1169540
18D25558	7.2 %	0.0218194 ± 0.0003509	0.0287245 ± 0.0185385	0.0401600 ± 0.0168054	0.0314920 ± 0.0155131	6.2227720 ± 0.1169540
18D25559	8.0 %	0.0218715 ± 0.0003509	0.0295745 ± 0.0185385	0.0416381 ± 0.0168054	0.0313635 ± 0.0155131	6.2346643 ± 0.1169540
18D25561	8.9 %	0.0220687 ± 0.0003509	0.0316703 ± 0.0185385	0.0449708 ± 0.0168054	0.0302905 ± 0.0155131	6.2760704 ± 0.1169540
18D25562	9.7 %	0.0222028 ± 0.0003509	0.0327969 ± 0.0185385	0.0466057 ± 0.0168054	0.0295029 ± 0.0155131	6.3036383 ± 0.1169540
18D25563	10.6 %	0.0223589 ± 0.0003509	0.0339664 ± 0.0185385	0.0481891 ± 0.0168054	0.0286365 ± 0.0155131	6.3357536 ± 0.1169540
18D25565	11.6 %	0.0227230 ± 0.0003509	0.0363123 ± 0.0185385	0.0509612 ± 0.0168054	0.0270304 ± 0.0155131	6.4119008 ± 0.1169540
18D25566	12.5 %	0.0229226 ± 0.0003509	0.0374184 ± 0.0185385	0.0520175 ± 0.0168054	0.0265030 ± 0.0155131	6.4548595 ± 0.1169540
18D25567	13.4 %	0.0231271 ± 0.0003509	0.0384271 ± 0.0185385	0.0527573 ± 0.0168054	0.0263217 ± 0.0155131	6.5002195 ± 0.1169540
18D25569	14.6 %	0.0235422 ± 0.0003509	0.0400124 ± 0.0185385	0.0529349 ± 0.0168054	0.0276616 ± 0.0155131	6.5987614 ± 0.1169540
18D25570	15.8 %	0.0237234 ± 0.0003509	0.0404253 ± 0.0185385	0.0521855 ± 0.0168054	0.0294602 ± 0.0155131	6.6464625 ± 0.1169540
18D25571	17.6 %	0.0238823 ± 0.0003509	0.0405355 ± 0.0185385	0.0507672 ± 0.0168054	0.0322427 ± 0.0155131	6.6929942 ± 0.1169540
18D25573	18.6 %	0.0240999 ± 0.0003509	0.0396048 ± 0.0185385	0.0455229 ± 0.0168054	0.0415231 ± 0.0155131	6.7781089 ± 0.1169540
18D25574	19.7 %	0.0241402 ± 0.0003509	0.0384329 ± 0.0185385	0.0414837 ± 0.0168054	0.0484345 ± 0.0155131	6.8142615 ± 0.1169540
18D25575	20.9 %	0.0241218 ± 0.0003509	0.0366963 ± 0.0185385	0.0363493 ± 0.0168054	0.0571561 ± 0.0155131	6.8443843 ± 0.1169540
18D25577	22.5 %	0.0238487 ± 0.0003509	0.0309558 ± 0.0185385	0.0216635 ± 0.0168054	0.0821015 ± 0.0155131	6.8813928 ± 0.1169540

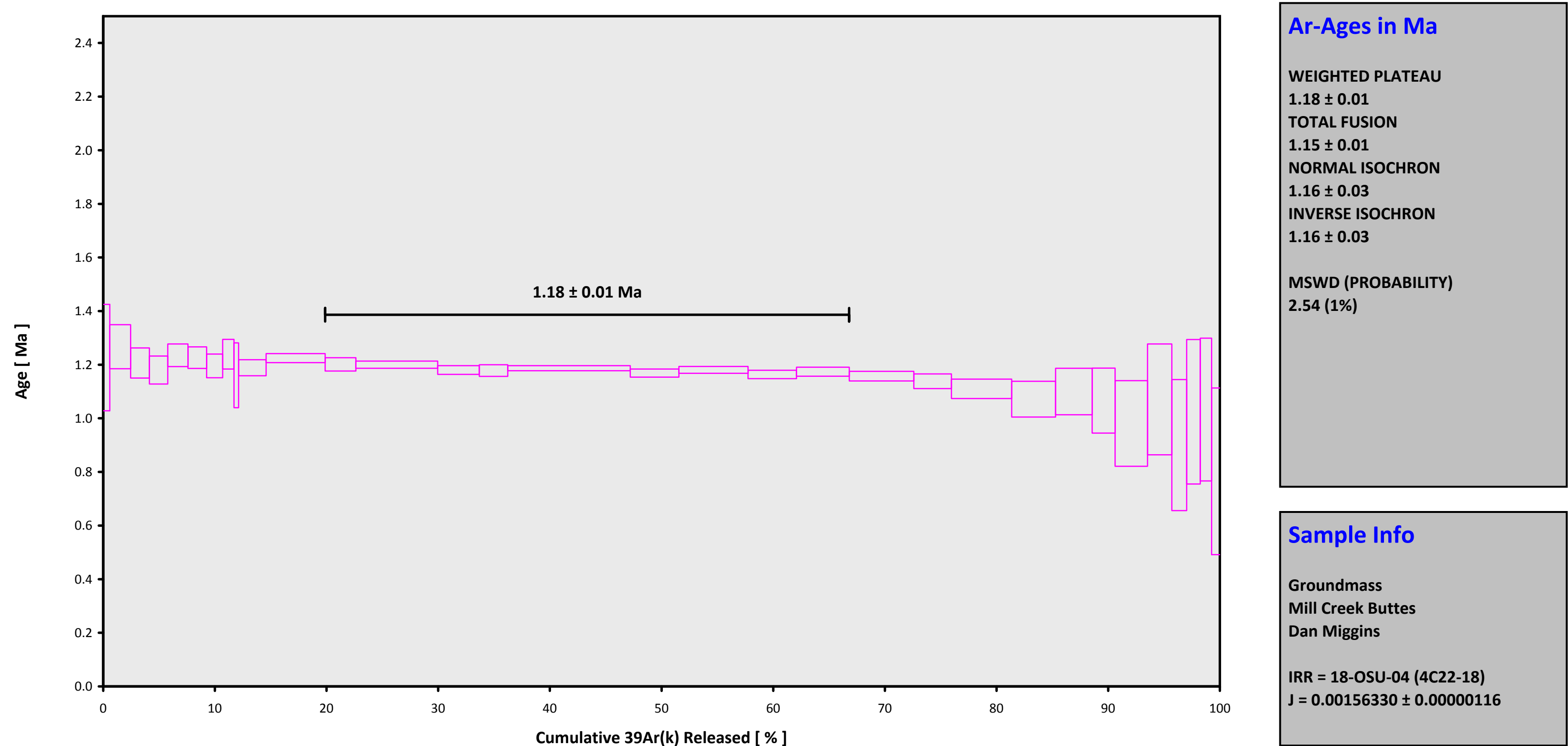
Intercept Values		36Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]		r2	Regression (type,n)
18D25535	1.8 %	0.3464020 ± 0.0008976		0.7781	EXP 150 of 150	0.6304707 ± 0.0187263		0.0689	EXP 150 of 150	0.2026312 ± 0.0158218		0.0040	EXP 150 of 150	13.689958 ± 0.016849		0.9586	EXP 147 of 150	113.52883 ± 0.03248		0.9941	EXP 150 of 150
18D25537	1.9 %	0.4801578 ± 0.0010819		0.8622	EXP 150 of 150	1.8703603 ± 0.0186833		0.2197	EXP 150 of 150	0.5779571 ± 0.0179341		0.0190	EXP 150 of 150	43.137756 ± 0.019634		0.9949	EXP 150 of 150	167.40176 ± 0.05227		0.4239	EXP 147 of 150
18D25538	2.0 %	0.2690920 ± 0.0007310		0.7320	EXP 150 of 150	1.7015319 ± 0.0186872		0.1560	EXP 147 of 150	0.4542051 ± 0.0159358		0.0289	EXP 149 of 150	39.081476 ± 0.018621		0.9948	EXP 147 of 150	98.45953 ± 0.02311		0.9940	EXP 148 of 150
18D25539	2.1 %	0.2225576 ± 0.0007149		0.6223	EXP 149 of 150	1.7140070 ± 0.0197604		0.2218	EXP 150 of 150	0.4377471 ± 0.0171961		0.0141	EXP 150 of 150	38.133257 ± 0.015940		0.9957	EXP 150 of 150	82.99850 ± 0.02265		0.9948	EXP 150 of 150
18D25541	2.2 %	0.1740132 ± 0.0006763		0.4192	EXP 150 of 150	1.9306129 ± 0.0178067		0.4077	EXP 150 of 150	0.4985273 ± 0.0139724		0.0957	EXP 147 of 150	41.829875 ± 0.020268		0.9943	EXP 150 of 150	69.79482 ± 0.02266		0.9942	EXP 150 of 150
18D25542	2.3 %	0.1437838 ± 0.0005810		0.1757	EXP 150 of 150	1.8395664 ± 0.0198841		0.2618	EXP 150 of 150	0.3926987 ± 0.0187234		0.0000	EXP 150 of 150	38.854527 ± 0.018018		0.9949	EXP 148 of 150	58.95982 ± 0.02092		0.9959	EXP 149 of 150
18D25543	2.4 %	0.1247679 ± 0.0005422		0.1564	EXP 148 of 150	1.5407587 ± 0.0178479		0.2033	EXP 149 of 150	0.3354509 ± 0.0163017		0.0008	EXP 149 of 150	33.160410 ± 0.016876		0.9936	EXP 147 of 150	50.50955 ± 0.02141		0.9960	EXP 150 of 150
18D25545	2.5 %	0.0840488 ± 0.0004712		0.1034	EXP 150 of 150	1.1166684 ± 0.0170660		0.1680	EXP 147 of 150	0.2364908 ± 0.0162717		0.0137	EXP 148 of 150	23.537901 ± 0.015954		0.9878	EXP 150 of 150	34.53347 ± 0.01901		0.9973	EXP 150 of 150
18D25546	2.7 %	0.0559204 ± 0.0003862		0.3627	EXP 150 of 150	0.4158556 ± 0.0178218		0.0070	EXP 149 of 150	0.0634400 ± 0.0145501		0.0001	EXP 148 of 150	9.646578 ± 0.015222		0.9369	EXP 147 of 150	20.18599 ± 0.01820		0.9980	EXP 150 of 150
18D25547	3.0 %	0.1712138 ± 0.0006299		0.4698	EXP 150 of 150	2.9317925 ± 0.0187941		0.4626	EXP 150 of 150	0.6276188 ± 0.0174825		0.0161	EXP 150 of 150	57.094611 ± 0.020125		0.9970	EXP 149 of 150	73.50226 ± 0.01903		0.9891	EXP 150 of 150
18D25549	3.4 %	0.2527401 ± 0.0007010		0.7071	EXP 150 of 150	7.0243622 ± 0.0176251		0.8569	EXP 149 of 150	1.3939881 ± 0.0172050		0.1665	EXP 149 of 150	122.793249 ± 0.019840		0.9994	EXP 148 of 150	123.41333 ± 0.02245		0.6169	EXP 149 of 150
18D25550	3.8 %	0.1386303 ± 0.0006115		0.1663	EXP 150 of 150	3.7015774 ± 0.0168941		0.6446	EXP 149 of 150	0.7041626 ± 0.0169722		0.0520	EXP 149 of 150	63.597640 ± 0.018168		0.9981	EXP 150 of 150	65.37651 ± 0.01954		0.9909	EXP 150 of 150
18D25551	4.2 %	0.2940251 ± 0.0007626		0.7617	EXP 150 of 150	10.6487821 ± 0.0183123		0.9188	EXP 150 of 150	1.9621241 ± 0.0174616		0.3138	EXP 150 of 150	170.059947 ± 0.023623		0.9995	EXP 149 of 150	150.96520 ± 0.02382		0.9737	EXP 149 of 150
18D25553	4.6 %	0.1176139 ± 0.0005183		0.0883	EXP 147 of 150	5.4625109 ± 0.0186493		0.7583	EXP 149 of 150	0.9792506 ± 0.0135028		0.2430	EXP 147 of 150	86.494278 ± 0.019327		0.9988	EXP 146 of 150	65.72914 ± 0.02069		0.9877	EXP 149 of 150
18D25554	5.2 %	0.0916883 ± 0.0004469		0.0144	EXP 150 of 150	3.8037808 ± 0.0164620		0.6729	EXP 148 of 150	0.6491797 ± 0.0169358		0.0594	EXP 150 of 150	59.165491 ± 0.018952		0.9975	EXP 150 of 150	48.16027 ± 0.01942		0.9941	EXP 148 of 150
18D25555	5.8 %	0.2930863 ± 0.0008465		0.7470	EXP 150 of 150	17.5394508 ± 0.0190499		0.9678	EXP 150 of 150	2.9341509 ± 0.0175927		0.5227	EXP 150 of 150	254.317212 ± 0.027019		0.9997	EXP 150 of 150	176.75096 ± 0.02862		0.9879	EXP 149 of 150
18D25557	6.5 %	0.1358207 ± 0.0005462		0.2162	EXP 150 of 150	7.1356595 ± 0.0196975		0.8480	EXP 150 of 150	1.1516389 ± 0.0173257		0.1800	EXP 148 of 150	100.983077 ± 0.021159		0.9990	EXP 149 of 150	75.01600 ± 0.01858		0.9799	EXP 149 of 150
18D25558	7.2 %	0.1875381 ± 0.0006747		0.5396	EXP 149 of 150	10.6058295 ± 0.0199724		0.9059	EXP 150 of 150	1.6555798 ± 0.0178680		0.2986	EXP 149 of 150	143.564517 ± 0.024234		0.9993	EXP 149 of 150	105.19561 ± 0.02234		0.2114	EXP 150 of 150
18D25559	8.0 %	0.1574066 ± 0.0005738		0.4703	EXP 150 of 150	7.7055668 ± 0.0183802		0.8526	EXP 149 of 150	1.1615367 ± 0.0176118		0.1590	EXP 148 of 150	100.861886 ± 0.022167		0.9988	EXP 150 of 150	80.82402 ± 0.02155		0.9588	EXP 150 of 150
18D25561	8.9 %	0.1971871 ± 0.0006936		0.5831	EXP 147 of 150	8.8067298 ± 0.0197520		0.8765	EXP 150 of 150	1.2736949 ± 0.0177755		0.1288	EXP 150 of 150	109.457205 ± 0.022058		0.9990	EXP 149 of 150	95.86124 ± 0.02392		0.4226	EXP 150 of 150
18D25562	9.7 %	0.3183029 ± 0.0007796		0.8253	EXP 148 of 150	10.9703932 ± 0.0179839		0.9278	EXP 150 of 150	1.5646908 ± 0.0188797		0.1764	EXP 150 of 150	134.169368 ± 0.019804		0.9995	EXP 148 of 150	140.72917 ± 0.02235		0.9828	EXP 150 of 150
18D25563	10.6 %	0.2680878 ± 0.0007074		0.7861	EXP 149 of 150	6.4001633 ± 0.0198046		0.7625	EXP 149 of 150	0.8945646 ± 0.0175572		0.0398	EXP 150 of 150	78.381197 ± 0.020652		0.9983	EXP 149 of 150	107.21853 ± 0.02226		0.7176	EXP 150 of 150
18D25565	11.6 %	0.6736283 ± 0.0011491		0.9401	EXP 148 of 150	10.3275303 ± 0.0206151		0.8928	EXP 150 of 150	1.5659545 ± 0.0176568		0.2083	EXP 150 of 150	125.167027 ± 0.020776		0.9993	EXP 149 of 150	247.48617 ± 0.02875		0.9981	EXP 150 of 150
18D25566	12.5 %	0.8966233 ± 0.0015440		0.9429	EXP 150 of 150	7.5640821 ± 0.0191126		0.8449	EXP 149 of 150	1.2050509 ± 0.0173726		0.1306	EXP 149 of 150	91.183320 ± 0.019444		0.9989	EXP 148 of 150	306.49033 ± 0.03150		0.9989	EXP 149 of 150
18D25567	13.4 %	0.9771144 ± 0.0015871		0.9475	EXP 150 of 150	7.0158507 ± 0.0206877		0.8002	EXP 150 of 150	1.0747113 ± 0.0186514		0.1557	EXP 150 of 150	75.860347 ± 0.019369		0.9984	EXP 150 of 150	327.40449 ± 0.03010		0.9992	EXP 147 of 150
18D25569	14.6 %	0.8600645 ± 0.0014020		0.9491	EXP 150 of 150	4.8954626 ± 0.0178499		0.7156	EXP 150 of 150	0.7186841 ± 0.0191002		0.1031	EXP 150 of 150	47.731252 ± 0.020944		0.9951	EXP 150 of 150	281.64479 ± 0.02994		0.9987	EXP 150 of 150
18D25570	15.8 %	1.6868626 ± 0.0017229		0.9809	EXP 150 of 150	8.7279311 ± 0.0193421		0.8713	EXP 150 of 150	1.1216510 ± 0.0163821		0.2065	EXP 150 of 150	67.183878 ± 0.016296		0.9986	EXP 148 of 150	542.21364 ± 0.04122		0.9996	EXP 150 of 150
18D25571	17.6 %	1.6177417 ± 0.0019434		0.9746	EXP 150 of 150	7.5893425 ± 0.0187452		0.8599	EXP 150 of 150	0.8948804 ± 0.0169701		0.0891	EXP 150 of 150	50.603405 ± 0.018377		0.9967	EXP 150 of 150	517.73907 ± 0.04251		0.9995	EXP 150 of 150
18D25573	18.6 %	1.1266326 ± 0.0017752		0.9545	EXP 149 of 150	4.6744433 ± 0.0185529		0.6779	EXP 149 of 150	0.5730241 ± 0.0174384		0.0916	EXP 150 of 150	30.917238 ± 0.016439		0.9926	EXP 150 of 150	357.58178 ± 0.03115		0.9993	EXP 150 of 150
18D25574	19.7 %	1.1565427 ± 0.0016274		0.9629	EXP 150 of 150	4.5300117 ± 0.0166517		0.7211	EXP 150 of 150	0.5562997 ± 0.0170453		0.0841	EXP 150 of 150	28.264208 ± 0.016403		0.9913	EXP 150 of 150	367.60959 ± 0.03750		0.9990	EXP 150 of 150
18D25575	20.9 %	0.9312126 ± 0.0014255		0.9571	EXP 149 of 150	3.7488097 ± 0.0173368		0.5943	EXP 148 of 150	0.4286935 ± 0.0172680		0.0204	EXP 150 of 150	23.297437 ± 0.015947		0.9874	EXP 149 of 150	296.00357 ± 0.03192		0.9987	EXP 149 of 150
18D25577	22.5 %	0.7879186 ± 0.0013366		0.9481	EXP 149 of 150	2.8769775 ± 0.0185649		0.4936	EXP 150 of 150	0.3412989 ± 0.0163770		0.0505	EXP 150 of 150	17.177678 ± 0.015276		0.9794	EXP 150 of 150	248.50558 ± 0.02776		0.9985	EXP 146 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
18D25535	1.8 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25537	1.9 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25538	2.0 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25539	2.1 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25541	2.2 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25542	2.3 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25543	2.4 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25545	2.5 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25546	2.7 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25547	3.0 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25549	3.4 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25550	3.8 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25551	4.2 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25553	4.6 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25554	5.2 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25555	5.8 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25557	6.5 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25558	7.2 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25559	8.0 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25561	8.9 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25562	9.7 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25563	10.6 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25565	11.6 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25566	12.5 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25567	13.4 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25569	14.6 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25570	15.8 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25571	17.6 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25573	18.6 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25574	19.7 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25575	20.9 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01
18D25577	22.5 %	Dan Miggins	18-OSU-04	999.00	999.00	34.73	Oregon\McClaghry (18-09)	18D25531	01

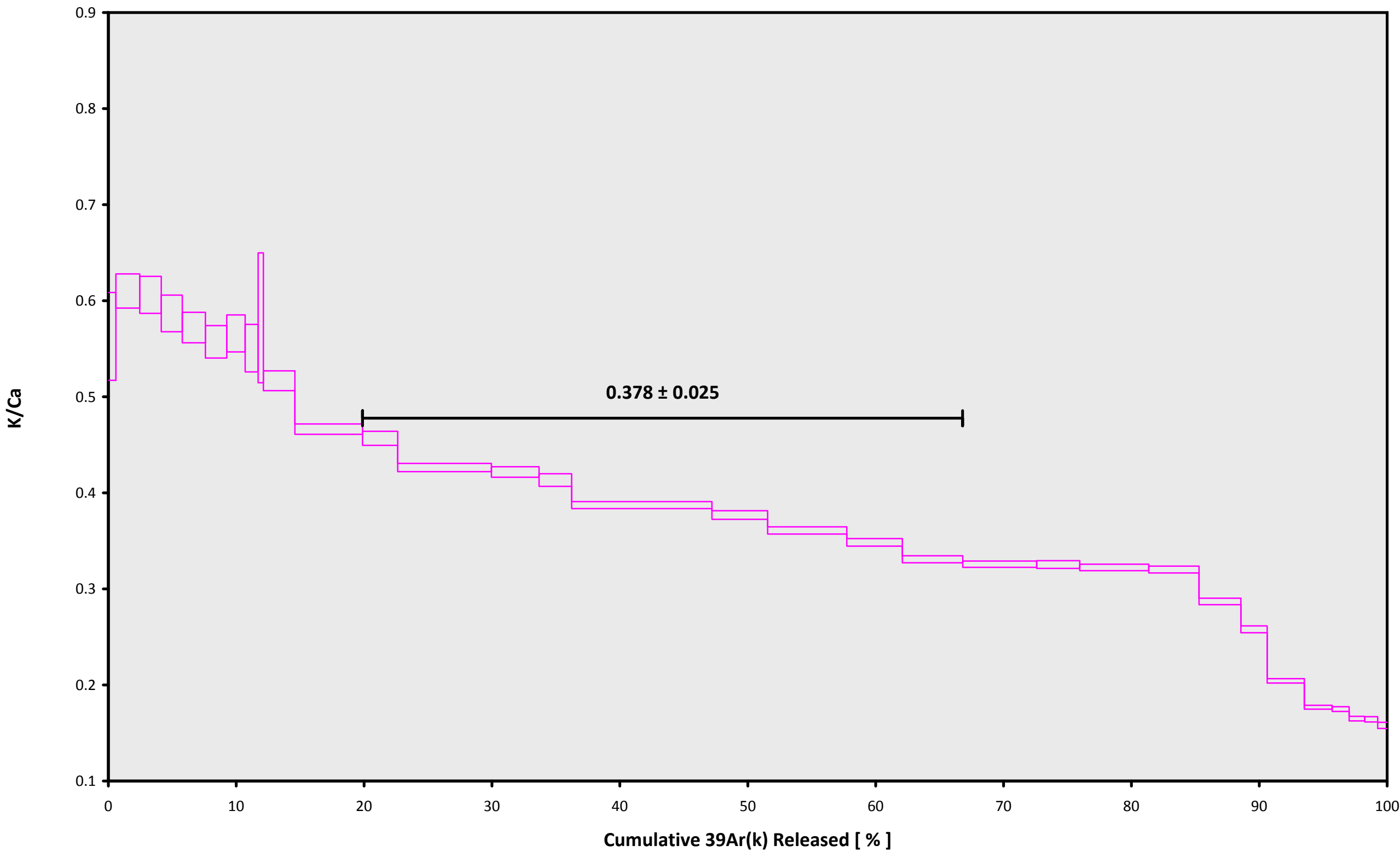
Sample Parameters		Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air 40Ar/36Ar	%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
18D25535	1.8 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	2	34	1
18D25537	1.9 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	3	0	1
18D25538	2.0 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	3	13	1
18D25539	2.1 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	3	26	1
18D25541	2.2 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	3	52	1
18D25542	2.3 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	4	5	1
18D25543	2.4 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	4	19	1
18D25545	2.5 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	4	45	1
18D25546	2.7 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	4	58	1
18D25547	3.0 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	5	11	1
18D25549	3.4 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	5	37	1
18D25550	3.8 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	5	50	1
18D25551	4.2 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	6	3	1
18D25553	4.6 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	6	30	1
18D25554	5.2 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	6	43	1
18D25555	5.8 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	6	56	1
18D25557	6.5 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	7	22	1
18D25558	7.2 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	7	35	1
18D25559	8.0 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	7	48	1
18D25561	8.9 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	8	15	1
18D25562	9.7 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	8	28	1
18D25563	10.6 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	8	41	1
18D25565	11.6 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	9	7	1
18D25566	12.5 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	9	20	1
18D25567	13.4 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	9	33	1
18D25569	14.6 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	10	0	1
18D25570	15.8 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	10	13	1
18D25571	17.6 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	10	26	1
18D25573	18.6 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	10	52	1
18D25574	19.7 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	11	5	1
18D25575	20.9 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	11	18	1
18D25577	22.5 %	51-MCD-DRJ-17	Groundmass	Mill Creek Buttes	FCT-NM (4C22-18)	28.201	0.082	Kuiper et al (2008)	10.05398	0.074	0.00156330	0.074	305.836	0.111	0.9915401	0.064	1	4.8E-14	22	OCT	2018	11	45	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
18D25535	1.8 %	295.5	0.237	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
18D25537	1.9 %	295.5	0.237	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
18D25538	2.0 %	295.5	0.237	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
18D25539	2.1 %	295.5	0.237	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
18D25541	2.2 %	295.5	0.237	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
18D25542	2.3 %	295.5	0.237	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
18D25543	2.4 %	295.5	0.237	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
18D25545	2.5 %	295.5	0.237	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
18D25546	2.7 %	295.5	0.237	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
18D25547	3.0 %	295.5	0.237	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
18D25549	3.4 %	295.5	0.237	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
18D25550	3.8 %	295.5	0.237	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
18D25551	4.2 %	295.5	0.237	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
18D25553	4.6 %	295.5	0.237	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
18D25554	5.2 %	295.5	0.237	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
18D25555	5.8 %	295.5	0.237	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
18D25557	6.5 %	295.5	0.237	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
18D25558	7.2 %	295.5	0.237	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
18D25559	8.0 %	295.5	0.237	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
18D25561	8.9 %	295.5	0.237	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
18D25562	9.7 %	295.5	0.237	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
18D25563	10.6 %	295.5	0.237	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
18D25565	11.6 %	295.5	0.237	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
18D25566	12.5 %	295.5	0.237	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
18D25567	13.4 %	295.5	0.237	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
18D25569	14.6 %	295.5	0.237	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
18D25570	15.8 %	295.5	0.237	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
18D25571	17.6 %	295.5	0.237	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
18D25573	18.6 %	295.5	0.237	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
18D25574	19.7 %	295.5	0.237	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
18D25575	20.9 %	295.5	0.237	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
18D25577	22.5 %	295.5	0.237	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

18D25531.AGE >>> 51-MCD-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



18D25531.AGE >>> 51-MCD-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.18 ± 0.01

TOTAL FUSION

1.15 ± 0.01

NORMAL ISOCHRON

1.16 ± 0.03

INVERSE ISOCHRON

1.16 ± 0.03

Sample Info

Groundmass

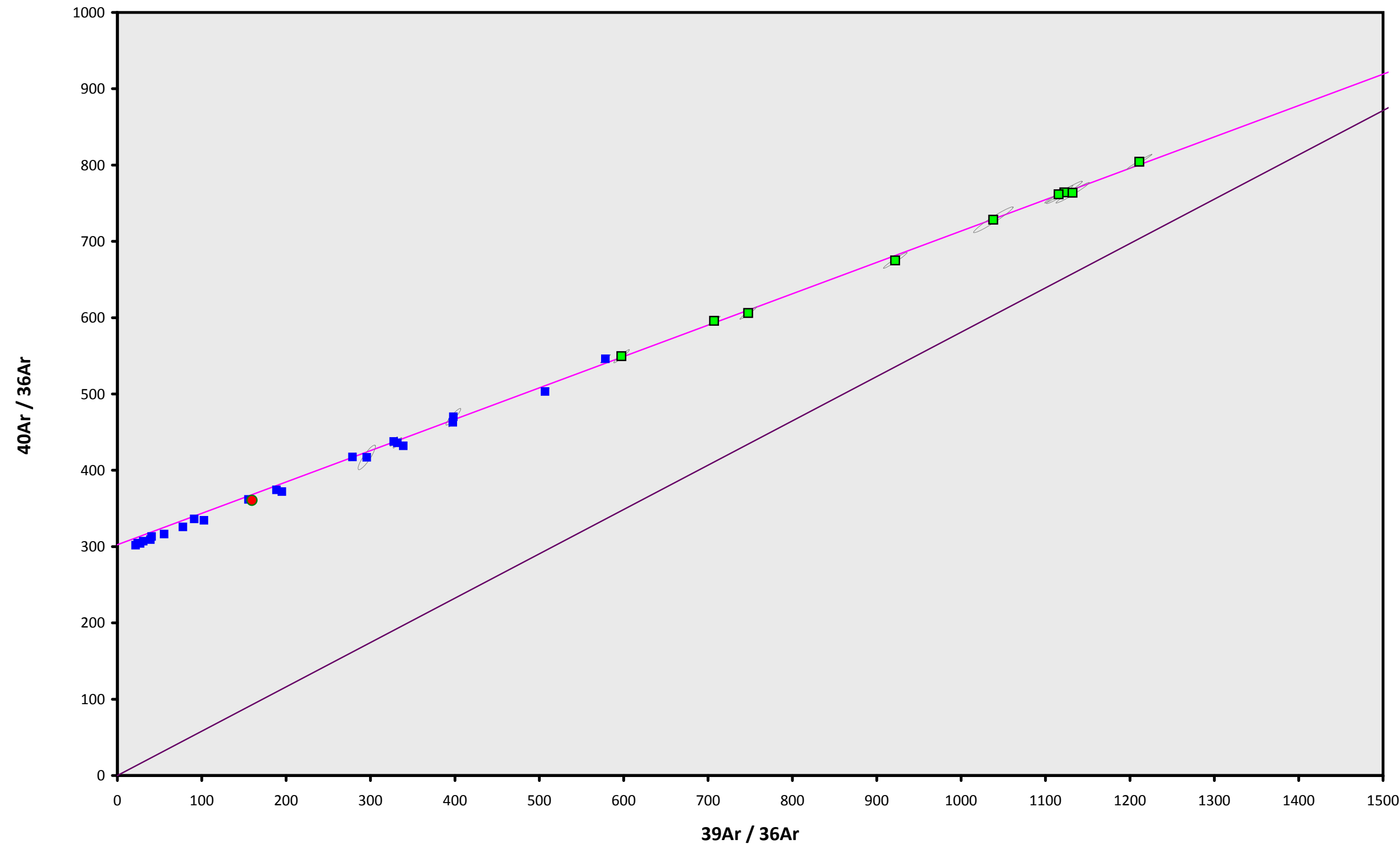
Mill Creek Buttes

Dan Miggins

IRR = 18-OSU-04 (4C22-18)

J = 0.00156330 ± 0.00000116

18D25531.AGE >>> 51-MCD-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.18 ± 0.01

TOTAL FUSION

1.15 ± 0.01

NORMAL ISOCHRON

1.16 ± 0.03

INVERSE ISOCHRON

1.16 ± 0.03

MSWD (PROBABILITY)

2.65 (1%)

40AR/36AR INTERCEPT

302.4 ± 11.0

Sample Info

Groundmass

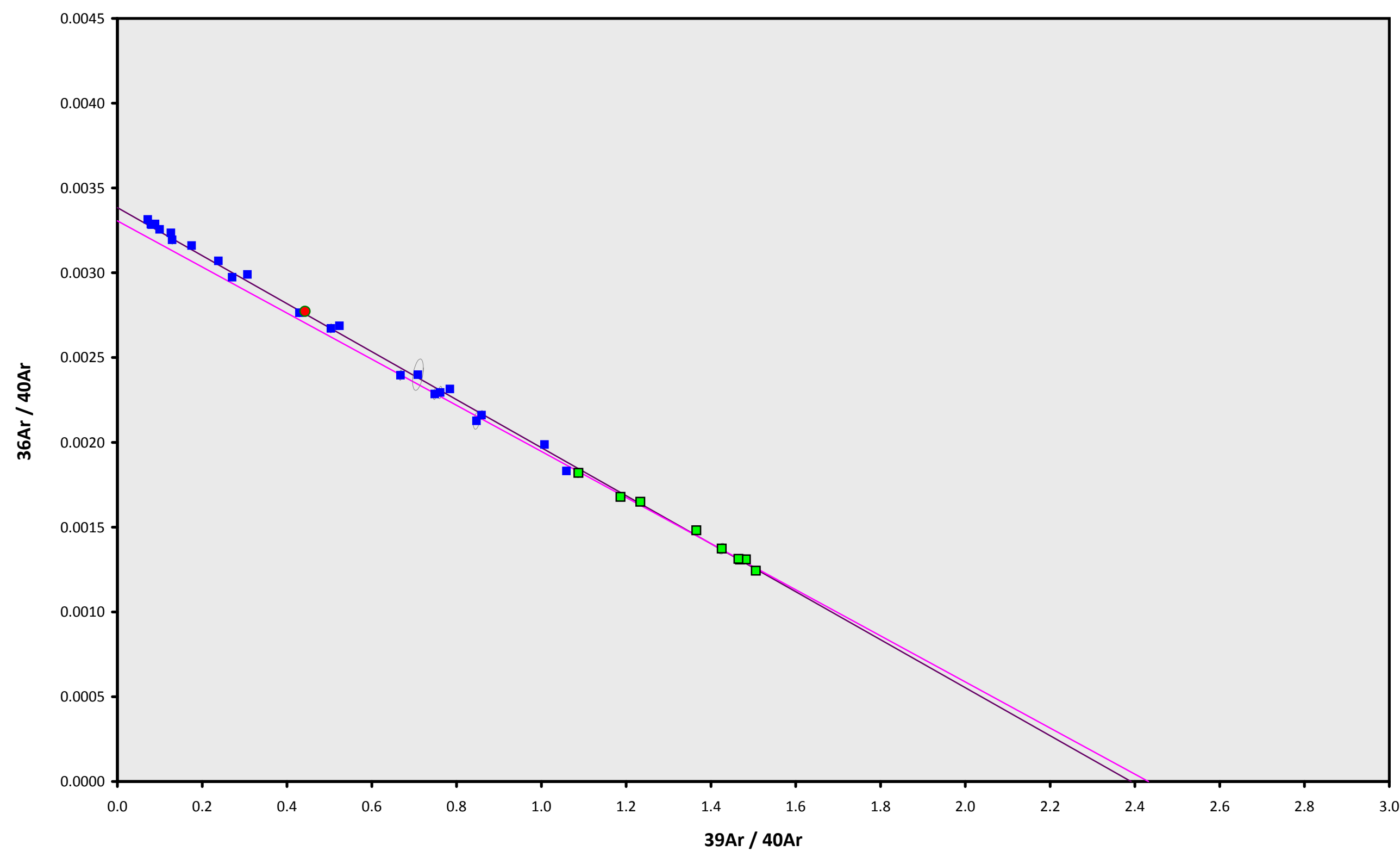
Mill Creek Buttes

Dan Miggins

IRR = 18-OSU-04 (4C22-18)

J = 0.00156330 ± 0.00000116

18D25531.AGE >>> 51-MCD-DRJ-17 >>> OREGON | MCCLAUGHRY (18-09) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

1.18 ± 0.01

TOTAL FUSION

1.15 ± 0.01

NORMAL ISOCHRON

1.16 ± 0.03

INVERSE ISOCHRON

1.16 ± 0.03

MSWD (PROBABILITY)

2.62 (1%)

SPREADING FACTOR

17.2%

40AR/36AR INTERCEPT

302.5 ± 10.9

Sample Info

Groundmass

Mill Creek Buttes

Dan Miggins

IRR = 18-OSU-04 (4C22-18)

$J = 0.00156330 \pm 0.00000116$