TABLE DR1. GRID LOCATION FOR SPECIMENS ANALYSED IN THIS STUDY

Specimen #	Easting	Northing	Elevation (m)
1a	439357	5685743	2160
4a,b	439553	5685816	2070
5	439649	5685909	2030
45	439978	5665655	690
166d	446647	5681149	2150
271	441530	5682235	2190
319b	446608	5680576	2220
344a	435322	5682674	2690
345	435748	5682442	2520
370b	436578	5682067	2310
401c	451180	5676255	1850
403	451454	5676227	1750
414	436546	5685506	2330
421a	433367	5685291	2020
423	435447	5684685	2070
425	437283	5682389	1910
426	436607	5683142	2170
427	436456	5683463	2290
430	436138	5686551	2610
483	436793	5681846	2220

Note : Universal Transverse Mercator grid (1000 m), Zone 11; North American Datum 1983 (NAD83).

TABLE DR2. RESULTS OF $^{40}Ar/^{39}Ar$ STEP HEATING EXPERIMENTS FOR HORNBLENDE, MUSCOVITE AND BIOTITE SEPARATES FROM PLUTONIC AND METAMORPHIC ROCKS FROM THE ILLECILLEWAET SYNCLINORIUM

T°C	$^{40}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	%$^{40}Ar^*$	Ca/K	Vol.^{39}Ar (x10^{-9} cc)	%^{39}Ar	Age ±	2σ
Fang stock									
92-423 Hornblende 60/80	J Value =	0.007162 ;	mass =	479 mg					
500	154.84	0.481	0.614	8.15	1.12	0.56	0.20	156.3 ±	423
680	18.51	0.020	0.538	67.86	0.99	7.41	2.67	155.6 ±	5.5
800	15.13	0.012	1.010	77.09	1.85	4.57	1.65	145.4 ±	10.1
900 x	19.39	0.020	3.134	69.99	5.73	28.07	10.12	170.1 ±	1.7
940 x	15.40	0.007	3.082	87.45	5.64	35.90	12.94	168.8 ±	0.8
980 x	14.98	0.005	3.109	89.73	5.69	56.12	20.23	168.5 ±	0.8
1020 x	14.52	0.004	3.155	92.27	5.77	67.09	24.19	168.1 ±	0.7
1060 x	14.04	0.002	3.565	95.50	6.52	49.58	17.87	168.6 ±	1.2
1100 x	49.70	0.123	3.724	26.77	6.82	17.45	6.29	167.5 ±	2.7
1150 x	15.66	0.008	3.516	85.07	6.43	10.38	3.74	167.5 ±	5.8
1200	108.32	0.396	2.011	-8.09	3.68	0.25	0.09	0.0 ±	275
Integrated Age:	167.6 ±	2.6 Ma							
Plateau Age:	168.5 ±	1.3 Ma	(	95.4% of ^{39}Ar, steps with "x")					
92-370b Muscovite 5mm	J Value =	0.007156 ;	mass =	151 mg					
550	163.92	0.538	0.097	2.98	0.18	0.87	0.18	61.7 ±	73
600	96.17	0.281	0.023	13.69	0.04	1.76	0.36	162.2 ±	31
650	22.38	0.031	0.007	59.35	0.01	5.86	1.18	163.5 ±	5.8
700	15.75	0.007	0.002	87.40	0.00	14.53	2.93	169.2 ±	4.1
750 x	14.34	0.003	0.000	94.82	0.00	30.07	6.05	167.2 ±	1.3
800 x	14.01	0.001	0.002	97.39	0.00	64.06	12.90	167.8 ±	0.6
850 x	14.01	0.001	0.000	97.91	0.00	159.17	32.05	168.6 ±	0.6
900	15.74	0.007	0.000	87.78	0.00	47.70	9.60	169.7 ±	1.0
975	15.59	0.006	0.000	88.68	0.00	78.34	15.77	169.9 ±	0.5
1025	20.92	0.022	0.000	69.11	0.00	57.37	11.55	177.3 ±	1.0
1075	19.49	0.017	0.000	74.01	0.00	32.11	6.47	176.9 ±	1.2
1200	132.11	0.404	0.005	9.71	0.01	4.84	0.97	158.1 ±	8.3
Integrated Age:	169.9 ±	1.2 Ma							
Preferred Age:	168.2 ±	0.7 Ma	(	51.0% of ^{39}Ar, steps with "x")					
92-423 Biotite 2mm	J Value =	0.007163 ;	mass =	150 mg					
500	103.06	0.315	0.197	9.73	0.36	1.36	0.26	124.9 ±	42
540	20.58	0.033	0.041	52.65	0.07	5.97	1.16	134.6 ±	7.0
580	53.47	0.138	0.014	23.79	0.03	14.15	2.75	157.0 ±	5.4
610 x	15.43	0.006	0.008	88.08	0.01	24.98	4.85	167.3 ±	1.8
650 x	15.30	0.006	0.004	88.57	0.01	59.77	11.61	166.8 ±	1.1
690 x	15.03	0.005	0.002	90.24	0.00	105.73	20.54	166.9 ±	0.3
770 x	15.91	0.008	0.015	85.34	0.03	47.97	9.32	167.1 ±	1.3
890 x	13.85	0.001	0.015	98.21	0.03	154.08	29.94	167.5 ±	0.3
930 x	15.38	0.006	0.011	87.95	0.02	70.29	13.66	166.5 ±	0.7
990	17.10	0.012	0.074	79.46	0.13	21.19	4.12	167.3 ±	1.8
1020	18.77	0.018	0.636	72.07	1.16	7.69	1.49	167.1 ±	6.0
1200	179.46	0.577	18.903	4.97	34.59	1.53	0.30	130.1 ±	51
Integrated Age:	166.2 ±	1.3 Ma							
Plateau Age:	167.1 ±	0.7 Ma	(	89.9% of ^{39}Ar, steps with "x")					

TABLE DR2. *(Continued)*

T°C	$^{40}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	$\%^{40}Ar^{*}$	Ca/K	Vol.^{39}Ar ($\times 10^{-9}$ cc)	$\%^{39}Ar$	Age ±	2σ
Lanark stock									
92-401c Hornblende 80/100	J Value =	0.007164 ;	mass =	346 mg					
680	11.29	0.010	0.117	72.90	0.21	18.57	6.69	103.1 ±	2.6
800	10.24	0.007	0.448	79.22	0.82	9.20	3.32	102.0 ±	4.9
900	12.62	0.004	2.472	91.17	4.52	32.27	11.63	145.0 ±	1.6
940	13.48	0.002	2.545	95.84	4.66	56.05	20.21	161.8 ±	0.7
980 x	13.87	0.002	2.743	96.79	5.02	48.92	17.63	168.0 ±	0.7
1020 x	13.84	0.001	2.927	96.88	5.36	80.62	29.06	168.0 ±	0.8
1060 x	19.87	0.022	3.423	66.81	6.26	21.52	7.76	166.9 ±	2.0
1100	17.20	0.015	4.349	73.68	7.96	5.60	2.02	160.8 ±	6.4
1150	16.06	0.010	3.491	81.05	6.39	4.46	1.61	163.9 ±	8.6
1200	40.01	0.148	0.512	-9.18	0.94	0.21	0.08	0.0 ±	424
Integrated Age:	157.1 ±	1.8 Ma							
Plateau Age:	167.9 ±	0.9 Ma	(54.5% of ^{39}Ar, steps with "x")						
92-403 Muscovite 80/120	J Value =	0.00723 ;	mass =	202 mg					
600	12.91	0.023	0.012	47.85	0.02	17.91	2.85	78.5 ±	17.6
680	10.45	0.003	0.006	91.80	0.01	54.53	8.69	120.6 ±	1.2
740	10.66	0.002	0.005	94.15	0.01	56.92	9.08	126.0 ±	1.6
770	13.57	0.011	0.004	76.39	0.01	48.69	7.76	130.0 ±	1.4
800	15.15	0.015	0.004	69.82	0.01	46.49	7.41	132.6 ±	1.5
830	11.88	0.003	0.006	92.08	0.01	47.59	7.59	137.0 ±	1.4
870	14.50	0.013	0.008	73.66	0.02	56.41	8.99	133.8 ±	1.6
910	12.42	0.004	0.008	89.50	0.02	58.76	9.37	139.1 ±	0.8
950	12.69	0.004	0.010	89.93	0.02	58.38	9.31	142.7 ±	1.4
980	12.67	0.003	0.011	92.84	0.02	48.81	7.78	146.9 ±	1.4
1020	16.12	0.013	0.012	75.80	0.02	59.57	9.50	152.4 ±	1.7
1200	15.61	0.010	0.049	80.78	0.09	73.18	11.67	157.1 ±	1.0
Integrated Age:	137.1 ±	1.8 Ma							
92-401c Biotite 40/60	J Value =	0.007165 ;	mass =	152 mg					
500	30.65	0.092	0.143	10.92	0.26	1.89	0.38	42.5 ±	25
540	17.81	0.028	0.032	54.03	0.06	8.71	1.77	120.0 ±	7.7
580 x	12.62	0.007	0.012	82.43	0.02	20.05	4.08	129.3 ±	1.7
610 x	11.79	0.005	0.008	88.12	0.01	34.06	6.93	129.2 ±	1.7
650 x	11.52	0.003	0.006	91.69	0.01	64.12	13.04	131.3 ±	0.5
690 x	11.20	0.002	0.005	94.27	0.01	71.98	14.64	131.3 ±	1.0
730 x	13.65	0.010	0.005	77.74	0.01	27.06	5.51	131.9 ±	2.8
770 x	12.91	0.008	0.016	81.18	0.03	13.27	2.70	130.3 ±	2.1
810 x	12.83	0.008	0.068	81.08	0.13	12.14	2.47	129.5 ±	4.4
850 x	11.35	0.003	0.069	92.11	0.13	24.28	4.94	130.1 ±	2.0
950 x	10.97	0.002	0.039	95.39	0.07	104.85	21.33	130.1 ±	0.7
1050 x	11.05	0.001	0.101	96.55	0.18	95.68	19.46	132.7 ±	0.7
1200	12.46	0.006	1.564	86.58	2.86	13.48	2.74	135.5 ±	1.8
Integrated Age:	130.6 ±	1.4 Ma							
Preferred Age:	131.0 ±	1.2 Ma	(95.1% of ^{39}Ar, steps with "x")						

TABLE DR2. (*Continued*)

T°C	$^{40}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	$\%^{40}Ar^{*}$	Ca/K	Vol.^{39}Ar ($\times 10^{-9}$ cc)	$\%^{39}Ar$	Age ±	2σ
Tangier stock									
91-271 Hornblende 60/80	J Value =	0.007166 ;	mass =	437 mg					
500	-24.81	0.053	1.949	162.87	3.57	2.20	0.98	0.0 ±	145
680	16.91	0.024	0.583	57.78	1.07	2.86	1.27	122.3 ±	36.3
800	12.60	0.007	0.916	83.46	1.68	4.14	1.84	131.7 ±	16.4
900	16.47	0.012	4.095	78.22	7.49	8.95	3.97	163.0 ±	5.4
940 x	15.75	0.007	3.395	86.98	6.21	14.99	6.65	172.0 ±	4.7
980 x	14.77	0.004	3.333	92.42	6.10	30.85	13.68	171.4 ±	5.9
1020 x	14.44	0.003	3.327	94.02	6.09	53.69	23.81	170.5 ±	2.3
1060 x	14.52	0.003	3.383	92.98	6.19	37.30	16.54	169.7 ±	1.5
1100 x	14.18	0.002	3.395	95.81	6.21	69.13	30.66	170.6 ±	1.0
1150	107.97	0.317	3.308	13.23	6.05	1.03	0.46	178.7 ±	64.4
1200	15.59	0.151	1.844	-186.33	3.38	0.34	0.15	0.0 ±	167
Integrated Age:	167.1 ±	5.2 Ma							
Plateau Age:	170.6 ±	2.4 Ma	(	91.3% of ^{39}Ar, steps with "x")					
91-271 Biotite 3mm	J Value =	0.007166 ;	mass =	150 mg					
500	68.37	0.206	0.153	11.09	0.28	0.99	0.20	95.3 ±	48
540	26.32	0.062	0.101	30.23	0.19	4.61	0.95	99.8 ±	10.3
580	16.64	0.016	0.023	71.18	0.04	10.69	2.20	146.7 ±	3.9
610 x	16.01	0.009	0.007	83.46	0.01	15.73	3.24	164.6 ±	3.6
690 x	14.70	0.005	0.003	90.16	0.01	120.02	24.71	163.3 ±	0.4
770 x	14.98	0.005	0.006	89.75	0.01	84.45	17.39	165.6 ±	0.6
830	23.64	0.029	0.038	63.77	0.07	21.87	4.50	184.8 ±	2.8
890	14.10	0.001	0.032	97.12	0.06	67.01	13.80	168.5 ±	0.9
930 x	14.04	0.002	0.021	95.72	0.04	57.06	11.75	165.6 ±	0.6
990 x	16.23	0.009	0.043	82.70	0.08	60.67	12.49	165.4 ±	0.8
1020 x	14.96	0.005	0.153	89.70	0.28	12.17	2.50	165.5 ±	3.5
1200 x	14.93	0.006	1.165	89.04	2.13	30.46	6.27	165.0 ±	1.4
Integrated Age:	165 ±	1.2 Ma							
Preferred Age:	164.8 ±	0.9 Ma	(	78.3% of ^{39}Ar, steps with "x")					
Corbin stock									
92-319b Hornblende 80/100	J Value =	0.007166 ;	mass =	349 mg					
500	114.74	0.208	0.659	46.51	1.21	0.94	0.41	584.7 ±	65
680	15.46	0.009	0.190	82.73	0.35	10.86	4.73	158.0 ±	7.6
800	15.29	0.012	0.767	76.03	1.40	6.53	2.84	144.8 ±	7.3
900	15.19	0.006	3.145	87.95	5.76	19.21	8.37	167.7 ±	3.1
940 x	14.98	0.002	2.908	95.38	5.32	43.48	18.94	178.4 ±	1.8
980 x	14.75	0.002	3.020	95.36	5.53	51.70	22.52	175.9 ±	1.0
1020 x	16.13	0.008	3.073	85.92	5.62	45.63	19.88	173.6 ±	1.9
1060 x	15.37	0.005	3.487	91.13	6.38	24.95	10.87	175.7 ±	2.4
1100 x	15.14	0.003	3.482	93.30	6.37	15.15	6.60	177.1 ±	2.2
1150 x	19.39	0.018	3.181	72.13	5.82	3.61	1.57	175.1 ±	8.9
1200 x	15.76	0.006	3.332	88.01	6.10	7.46	3.25	173.9 ±	4.0
Integrated Age:	175.1 ±	2.7 Ma							
Preferred Age:	175.9 ±	1.9 Ma	(	83.6% of ^{39}Ar, steps with "x")					

TABLE DR2. (*Concluded*)

T°C	$^{40}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	$\%^{40}Ar^{*}$	Ca/K	Vol.^{39}Ar ($\times 10^{-9}$ cc)	$\%^{39}Ar$	Age ±	2σ
Albert stock (Sears, 1979)									
JS-97-11 Hornblende 80/120 J Value = 0.006456 ; mass = 254 mg									
700	15.94	0.016	0.260	69.64	0.48	3.68	7.13	124.8 ±	12.6
800	13.05	0.025	0.911	42.85	1.67	1.04	2.01	64.5 ±	22.1
900	13.96	0.016	5.633	66.87	10.31	1.87	3.61	110.3 ±	15.9
975	12.36	0.007	5.682	83.08	10.40	12.99	25.13	120.6 ±	2.9
1000 x	10.16	0.005	5.597	86.19	10.24	16.31	31.55	103.9 ±	2.2
1025 x	9.03	0.004	5.164	87.36	9.45	8.46	16.37	93.9 ±	5.1
1050 x	10.67	0.002	5.448	94.33	9.97	3.77	7.30	118.1 ±	15.5
1075 x	11.32	0.013	4.920	66.12	9.00	2.53	4.89	89.2 ±	14.7
1100	14.00	0.005	6.280	89.33	11.49	0.83	1.61	145.4 ±	42.8
1200	36.36	0.105	9.278	14.89	16.98	0.20	0.39	69.9 ±	155
Integrated Age:	108.2 ±	7.3 Ma							
JS-97-11 Biotite 40/60 J Value = 0.007148 ; mass = 152 mg									
500	41.75	0.128	0.015	9.56	0.03	3.32	0.52	50.4 ±	8.7
540	16.70	0.032	0.002	42.62	0.00	25.10	3.93	89.2 ±	16.4
580	9.53	0.010	0.003	87.99	0.00	36.04	5.64	81.4 ±	2.7
610	10.75	0.014	0.005	61.10	0.01	47.37	7.42	82.4 ±	1.6
650 x	7.37	0.002	0.002	91.55	0.00	84.83	13.28	84.6 ±	0.7
730 x	8.29	0.005	0.001	81.78	0.00	135.42	21.20	85.0 ±	0.4
830 x	7.58	0.003	0.001	89.07	0.00	37.47	5.87	84.6 ±	2.2
950 x	7.40	0.002	0.004	90.55	0.01	140.27	21.96	84.0 ±	3.8
1050 x	7.25	0.002	0.004	92.84	0.01	126.65	19.83	84.4 ±	0.8
1200	26.04	0.064	0.666	27.21	1.22	2.19	0.34	89.4 ±	29.9
Integrated Age:	84.2 ±	2.4 Ma							
Plateau Age:	84.5 ±	1.6 Ma	(82.1% of ^{39}Ar, steps with "x")						
Corbin stock									
92-319b Biotite 2mm J Value = 0.007166 ; mass = 150 mg									
500	41.99	0.114	0.060	19.79	0.11	3.25	0.74	104.1 ±	13
540	16.11	0.017	0.018	68.42	0.03	11.61	2.65	136.8 ±	3.8
580	16.73	0.016	0.012	72.53	0.02	18.95	4.32	150.1 ±	3.6
610 x	13.74	0.003	0.007	92.50	0.01	25.44	5.80	156.9 ±	1.3
650 x	16.62	0.014	0.006	75.93	0.01	44.00	10.04	155.8 ±	1.3
690 x	13.27	0.002	0.004	96.37	0.01	55.23	12.60	157.8 ±	0.8
770 x	15.58	0.010	0.014	80.95	0.03	42.14	9.61	155.8 ±	1.2
890 x	13.21	0.003	0.108	94.29	0.20	102.03	23.27	154.0 ±	0.6
930 x	13.11	0.002	0.059	96.36	0.11	54.62	12.46	156.1 ±	1.6
990 x	13.15	0.001	0.139	96.71	0.25	49.49	11.29	157.1 ±	0.7
1020 x	20.21	0.025	0.362	63.59	0.66	23.01	5.25	159.0 ±	1.5
1200 x	17.19	0.016	3.910	72.23	7.15	8.67	1.98	157.3 ±	4.7
Integrated Age:	155.0 ±	1.4 Ma							
Preferred Age:	156.1 ±	1.1 Ma	(92.3% of ^{39}Ar, steps with "x")						

TABLE DR3. RESULTS OF $^{40}Ar/^{39}Ar$ STEP HEATING EXPERIMENTS FOR K-FELDSPAR SEPARATES FROM FANG, CORBIN AND LANARK STOCK

T°C	$^{40}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	%$^{40}Ar^*$	Ca/K	Vol.^{39}Ar (x10^{-8} cc)	%^{39}Ar	Age ±	2σ
Fang stock									
92-423 Microcline 3mm		J Value =	0.00716 ;	mass =	182 mg				
500	58.83	0.049	0.020	75.58	0.04	8.58	0.82	498.3 ±	8.4
550	7.07	0.002	0.014	90.69	0.02	38.57	3.68	80.6 ±	1.8
600	5.78	0.002	0.019	89.68	0.03	64.54	6.16	65.4 ±	1.8
650	6.45	0.003	0.013	84.48	0.02	87.11	8.32	68.7 ±	1.0
680	6.94	0.004	0.007	84.09	0.01	60.47	5.77	73.4 ±	1.2
710	8.39	0.007	0.005	75.62	0.01	36.83	3.52	79.8 ±	1.3
740	7.67	0.002	0.010	90.59	0.02	37.16	3.55	87.3 ±	1.0
770	8.22	0.003	0.011	89.53	0.02	25.86	2.47	92.3 ±	2.4
800	8.67	0.003	0.009	90.72	0.02	27.67	2.64	98.5 ±	2.2
840	8.73	0.001	0.010	95.77	0.02	37.97	3.62	104.5 ±	1.6
870	9.30	0.003	0.009	91.74	0.02	28.10	2.68	106.6 ±	2.7
900	10.08	0.004	0.007	88.83	0.01	36.71	3.50	111.8 ±	0.9
950	9.73	0.002	0.007	93.78	0.01	56.90	5.43	113.8 ±	1.1
990	9.93	0.002	0.005	95.24	0.01	77.33	7.38	117.9 ±	1.2
1030	10.42	0.002	0.006	93.75	0.01	64.51	6.16	121.6 ±	0.9
1060	10.73	0.002	0.009	94.97	0.02	53.63	5.12	126.7 ±	1.4
1090	11.28	0.002	0.012	95.82	0.02	46.22	4.41	134.1 ±	1.5
1115	11.84	0.003	0.009	93.60	0.02	43.71	4.17	137.4 ±	1.8
1135	12.36	0.003	0.011	92.96	0.02	40.82	3.90	142.3 ±	1.3
1155	12.77	0.003	0.006	94.04	0.01	62.87	6.00	148.4 ±	1.0
1175	13.07	0.002	0.005	94.50	0.01	86.46	8.25	152.5 ±	0.5
1200	13.20	0.004	0.011	90.12	0.02	25.58	2.44	147.1 ±	1.2
Integrated Age:	113.5 ±	1.4 Ma							
Corbin stock									
92-319b K-feldspar 40/60		J Value =	0.00717 ;	mass =	151 mg				
500	18.48	0.031	0.081	50.89	0.15	10.36	2.66	117.4 ±	5.7
525	41.38	0.124	0.030	11.46	0.05	11.82	3.04	59.9 ±	4.7
550	7.42	0.011	0.021	54.56	0.04	11.45	2.94	51.3 ±	4.3
575	6.49	0.008	0.036	65.07	0.07	14.32	3.68	53.5 ±	6.0
600	6.56	0.008	0.049	65.43	0.09	13.40	3.44	54.4 ±	1.9
630	6.12	0.005	0.055	77.88	0.10	16.33	4.20	60.3 ±	3.0
670	6.14	0.005	0.067	77.64	0.12	17.73	4.56	60.3 ±	3.2
700	6.29	0.006	0.064	73.63	0.12	16.56	4.25	58.6 ±	1.8
740	6.27	0.004	0.070	80.34	0.13	19.26	4.95	63.7 ±	2.5
770	6.64	0.005	0.080	77.03	0.15	17.15	4.41	64.7 ±	3.0
800	7.05	0.005	0.055	78.33	0.10	15.45	3.97	69.7 ±	3.0
840	7.28	0.005	0.069	79.08	0.13	16.51	4.24	72.7 ±	4.2
870	9.20	0.012	0.050	62.24	0.09	13.67	3.51	72.3 ±	5.2
900	8.01	0.006	0.045	77.88	0.08	14.18	3.64	78.6 ±	4.2
950	8.33	0.007	0.041	75.73	0.07	20.42	5.25	79.4 ±	3.3
990	8.57	0.007	0.037	77.00	0.07	22.05	5.67	83.1 ±	2.1
1040	9.34	0.006	0.061	80.58	0.11	24.22	6.22	94.4 ±	2.0
1080	10.50	0.006	0.074	82.29	0.14	16.55	4.25	108.1 ±	4.3
1115	12.28	0.009	0.082	78.67	0.15	26.54	6.82	120.5 ±	2.2
1145	11.35	0.005	0.071	87.74	0.13	36.94	9.49	124.0 ±	2.0
1175	11.13	0.004	0.078	89.31	0.14	31.39	8.07	123.8 ±	1.4
1200	23.72	0.040	0.484	49.91	0.89	2.89	0.74	147.0 ±	16.2
Integrated Age:	85.7 ±	3.1 Ma							

TABLE DR3. *(Concluded)*

T°C	$^{40}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	$\%^{40}Ar^{*}$	Ca/K	Vol.^{39}Ar ($\times 10^{-4}$ cc)	$\%^{39}Ar$	Age ±	2σ
Lanark stock									
92-401c K-feldspar	40/60	J Value =	0.00716 ; mass =		152 mg				
500	111.92	0.343	0.025	9.43	0.05	9.51	1.14	131.1 ±	10.4
500	108.61	0.366	0.001	0.55	0.00	12.22	1.46	7.3 ±	4.6
525	80.54	0.265	0.003	2.78	0.01	16.10	1.93	28.3 ±	4.4
525	121.86	0.412	0.001	0.18	0.00	13.40	1.60	2.5 ±	9.1
550	9.29	0.017	0.001	44.38	0.00	3.54	0.42	52.1 ±	25.6
550	4.86	0.003	0.011	80.16	0.02	16.92	2.02	49.3 ±	3.2
575	4.76	0.003	0.002	82.65	0.00	17.49	2.09	49.8 ±	1.0
575	5.32	0.005	0.011	73.65	0.02	22.70	2.72	49.6 ±	1.0
600	5.45	0.005	0.012	71.22	0.02	13.68	1.64	49.1 ±	1.8
600	5.57	0.004	0.003	77.39	0.00	14.92	1.79	54.5 ±	1.6
630	5.02	0.002	0.004	87.33	0.01	24.40	2.92	55.4 ±	1.7
670	4.99	0.002	0.011	90.93	0.02	38.49	4.61	57.3 ±	1.4
670	8.28	0.013	0.001	53.81	0.00	14.22	1.70	56.3 ±	2.4
700	5.14	0.002	0.008	86.66	0.01	22.58	2.70	56.3 ±	2.5
740	5.30	0.002	0.009	88.19	0.02	33.78	4.04	59.1 ±	1.1
770	5.21	0.002	0.013	90.05	0.02	37.54	4.49	59.3 ±	1.2
800	5.59	0.003	0.013	83.71	0.02	34.69	4.15	59.1 ±	1.1
840	5.38	0.002	0.018	88.75	0.03	41.89	5.01	60.3 ±	1.6
870	10.15	0.018	0.020	46.69	0.04	28.10	3.36	59.9 ±	0.7
900	5.85	0.003	0.014	86.33	0.03	41.87	5.01	63.7 ±	1.6
950	6.97	0.005	0.018	78.04	0.03	49.92	5.97	68.7 ±	0.8
990	8.14	0.008	0.009	69.91	0.02	52.68	6.31	71.7 ±	1.2
1040	6.40	0.001	0.014	94.27	0.03	60.14	7.20	76.0 ±	1.2
1080	6.75	0.002	0.013	91.33	0.02	42.17	5.05	77.6 ±	1.6
1115	7.03	0.002	0.012	91.71	0.02	38.58	4.62	81.1 ±	1.5
1145	7.63	0.003	0.015	87.62	0.03	31.87	3.81	84.0 ±	1.8
1175	7.82	0.003	0.019	90.22	0.04	46.26	5.54	88.6 ±	0.7
1200	8.40	0.002	0.010	91.50	0.02	45.53	5.45	96.4 ±	0.8
1200	12.03	0.013	0.030	68.22	0.06	10.25	1.23	102.8 ±	5.6
Integrated Age:	44.2 ±	1.4 Ma							