

Table A1. Analytical data from selected subsurface basalt flows at the Idaho National Laboratory, Idaho. Bolding indicates sample extraction data used in plateau calculations. Sem = standard error of mean. K2O = potassium oxide

Quaking Aspen Butte - BG-77-1 - 25-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | | |
|-----------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|----------|----------|
| Ca | | | | | | | | | | | | | ±1 sem discrim. | | | |
| 21486-01A | 0.6563 | 0.3 | 7.0817 | 13.8801 | 0.1473 | 196.6302 | 3.2302 | 1.6 | 469 | 162 | 2.8 | 40 Ar 0.0303 | 8.05±0.04 | 3 | 1.000020 | 0.000414 |
| -01B | 0.2446 | 0.7 | 5.9255 | 11.6139 | 0.0595 | 72.0952 | 0.2739 | 0.4 | 40 | 51 | 10.3 | 0.1127 | " | 5 | 1.000042 | 0.000415 |
| -01C | 0.1388 | 0.9 | 4.5655 | 8.9484 | 0.0385 | 41.8638 | 1.2054 | 2.9 | 175 | 42 | 16.3 | 0.1793 | " | 7 | 1.000061 | 0.000416 |
| -01D | 0.1175 | 0.9 | 4.1011 | 8.0382 | 0.0362 | 36.8135 | 2.4233 | 6.6 | 352 | 27 | 17.1 | 0.1877 | " | 9 | 1.000069 | 0.000416 |
| -01E | 0.1459 | 0.6 | 3.4674 | 6.7960 | 0.0403 | 49.3756 | 6.5440 | 13.2 | 950 | 29 | 20.5 | 0.2254 | " | 12 | 1.000089 | 0.000416 |
| -01F | 0.2459 | 0.5 | 4.4453 | 8.7129 | 0.0600 | 74.7507 | 2.4446 | 3.3 | 355 | 45 | 13.8 | 0.1513 | " | 15 | 1.000094 | 0.000416 |
| -01G | 0.3307 | 0.4 | 5.2207 | 10.2325 | 0.0742 | 98.5693 | 1.2588 | 1.3 | 183 | 87 | 6.5 | 0.0712 | " | 17 | 1.000104 | 0.000415 |
| -01H | 0.4298 | 0.4 | 6.1331 | 12.0210 | 0.1005 | 128.7667 | 2.2278 | 1.7 | 324 | 109 | 4.5 | 0.0490 | " | 19 | 1.000106 | 0.000414 |
| -01I | 0.5059 | 0.5 | 9.2633 | 18.1560 | 0.1066 | 151.4099 | 2.6652 | 1.7 | 387 | 139 | 2.9 | 0.0320 | " | 21 | 1.000106 | 0.000409 |
| -01J | 0.6382 | 0.5 | 11.8241 | 23.1753 | 0.1360 | 190.5172 | 2.8837 | 1.5 | 419 | 179 | 2.6 | 0.0285 | " | 25 | 1.000105 | 0.000407 |

Plateau Age (No Plateau Age)

Quaking Aspen Butte - BG-77-1 - 25-ft depth (whole rock - Frantz more magnetic)

| Ca | | | | | | | | | | | | | | | | |
|----------------------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|-----------------------------|--------|--------------------|--|----------------------------------|------------------|----|----------|----------|
| 40Ar ±1 sem discrim. | | | | | | | | | | | | | | | | |
| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | | | |
| 21492-01A | 0.7498 | 0.4 | 11.2704 | 22.0900 | 0.1523 | 220.3138 | -4.1324 | -1.9 | -599 | 247 | 4.0 | 0.0337 | 8.03±0.02 | 3 | 0.998787 | 0.000352 |
| -01B | 0.2455 | 0.7 | 5.7074 | 11.1866 | 0.0596 | 73.0798 | -0.2196 | -0.3 | -32 | 55 | 12.5 | 0.1058 | " | 5 | 0.998791 | 0.000349 |
| -01C | 0.1382 | 0.9 | 4.3246 | 8.4763 | 0.0394 | 41.6734 | 0.5001 | 1.2 | 72 | 36 | 16.5 | 0.1403 | " | 7 | 0.998793 | 0.000348 |
| -01D | 0.1202 | 0.9 | 3.8214 | 7.4900 | 0.0340 | 36.0645 | 0.2568 | 0.7 | 37 | 32 | 17.0 | 0.1439 | " | 9 | 0.998797 | 0.000347 |
| -01E | 0.1662 | 0.6 | 3.6480 | 7.1500 | 0.0460 | 50.2435 | 0.6093 | 1.2 | 88 | 51 | 18.7 | 0.1582 | " | 12 | 0.998811 | 0.000344 |
| -01F | 0.3015 | 0.5 | 5.8255 | 11.4180 | 0.0705 | 94.5070 | 4.3941 | 4.6 | 636 | 50 | 17.9 | 0.1520 | " | 17 | 0.998818 | 0.000343 |
| -01G | 0.5126 | 0.6 | 10.8497 | 21.2654 | 0.1104 | 154.0682 | 0.9342 | 0.6 | 135 | 89 | 10.6 | 0.0897 | " | 25 | 0.998825 | 0.000342 |
| -01H | 0.6357 | 0.7 | 11.2704 | 29.6088 | 0.1523 | 220.3138 | -0.5599 | -0.3 | -81 | 184 | 2.9 | 0.0245 | " | 35 | 0.998851 | 0.000340 |
| Plateau Age | | | | | | | | | 47 | 20 | 64.6 | | | | | |

Quaking Aspen Butte - BG-77-1 - 25-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-------------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21487-01A | 0.5448 | 0.4 | 7.9378 | 15.5581 | 0.1200 | 161.3733 | -1.6286 | -1.0 | -235 | 194 | 2.9 | 0.0212 | 8.01±0.04 | 3 | 1.000092 | 0.000400 |
| -01B | 0.2236 | 0.9 | 6.7871 | 13.3027 | 0.0548 | 66.6061 | 0.0082 | 0.0 | 1 | 62 | 11.2 | 0.0809 | " | 5 | 1.000087 | 0.000398 |
| -01C | 0.1342 | 1.2 | 5.7163 | 11.2040 | 0.0371 | 40.0735 | 0.2467 | 0.6 | 36 | 40 | 17.0 | 0.1226 | " | 7 | 1.000070 | 0.000391 |
| -01D | 0.1122 | 1.1 | 4.4537 | 8.7292 | 0.0344 | 35.2719 | 1.9438 | 5.5 | 281 | 24 | 16.8 | 0.1213 | " | 9 | 1.000062 | 0.000388 |
| -01E | 0.1459 | 0.9 | 4.4378 | 8.6980 | 0.0415 | 44.0408 | 0.6015 | 1.4 | 87 | 33 | 19.8 | 0.1429 | " | 12 | 1.000055 | 0.000385 |
| -01F | 0.2830 | 0.5 | 5.4453 | 10.6728 | 0.0669 | 85.1238 | 0.5830 | 0.7 | 84 | 52 | 18.5 | 0.1332 | " | 17 | 1.000029 | 0.000377 |
| -01G | 0.4548 | 0.7 | 11.6774 | 22.8877 | 0.0979 | 136.0019 | 0.3710 | 0.3 | 54 | 99 | 10.8 | 0.0776 | " | 25 | 1.000019 | 0.000374 |
| Plateau Age | | | | | | | | | 84 | 27 | 49.1 | | | | | |

Vent 5206 - USGS 131 - 66-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | | ³⁷ Ar/ ³⁹ Ar | | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|-----|------------------------------------|---------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | | |
| 21473-01A | 0.8039 | 0.1 | 2.9524 | | 5.7867 | 0.1744 | 234.5614 | -5.0135 | -2.1 | -721 | 170 | 2.9 | 0.0324 | 7.97±0.03 | 3 | 1.001464 | 0.000167 |
| -01B | 0.3237 | 0.3 | 3.2556 | | 6.3810 | 0.0749 | 97.4473 | 1.1610 | 1.2 | 167 | 58 | 9.9 | 0.1110 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.1769 | 0.5 | 3.4536 | | 6.7690 | 0.0468 | 52.4745 | -0.0053 | 0 | -1 | 35 | 14.6 | 0.1642 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.1402 | 0.6 | 3.1491 | 6.1723 | 0.0391 | 41.7355 | 0.1656 | 0.4 | 24 | 30 | 15.2 | 0.1716 | " | 9 | 1.001464 | 0.000167 | |
| -01E | 0.1874 | 0.4 | 2.9469 | 5.7760 | 0.0483 | 56.1102 | 0.4462 | 0.8 | 64 | 48 | 18.7 | 0.2107 | " | 12 | 1.001464 | 0.000167 | |
| -01F | 0.3102 | 0.4 | 4.7957 | 9.3995 | 0.0750 | 92.3222 | 0.1913 | 0.2 | 28 | 47 | 16.8 | 0.1888 | " | 15 | 1.001464 | 0.000167 | |
| -01G | 0.4141 | 0.1 | 0.8522 | 1.6704 | 0.0954 | 124.1498 | 0.6863 | 0.6 | 99 | 87 | 16.2 | 0.1824 | " | 21 | 1.001464 | 0.000167 | |
| -01H | 0.4169 | 0.5 | 7.6678 | 15.0289 | 0.0936 | 123.2079 | -0.5152 | -0.4 | -74 | 110 | 3.5 | 0.0399 | " | 25 | 1.001464 | 0.000167 | |
| -01I | 0.4819 | 0.5 | 8.6052 | 16.8661 | 0.1059 | 142.6575 | -0.3858 | -0.3 | -55 | 158 | 2.2 | 0.0250 | " | 35 | 1.001464 | 0.000167 | |

Plateau Age 23 18 87.3

Vent 5206 - USGS 131 - 66-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | | | | | | | | | | | | | | | | |
|------------------------------------|---|------------------------------------|------------------------------------|-------------------------------------|--------------------|------------------|----------|-------------|------|-------|---------|---------|--------|-----------|----------|----------|----------|
| ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | | | | | | | | | | | | |
| rad | | | | | | | | | | | | | | | | | |
| Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles | J (x10-5) | Laser | ⁴⁰ Ar | ± 1 sem | | | | | | | | | | |
| (x 10-14) | ± 1 sem | (watts) | discrim. | | | | | | | | | | | | | | |
| 21474-01A | 0.7789 | 0.1 | 3.3284 | | 6.5236 | 0.1561 | 227.3746 | -6.0098 | -2.6 | -871 | 163 | 4.1 | 0.0378 | 8.03±0.03 | 3 | 1.001464 | 0.000167 |
| -01B | 0.2998 | 0.4 | 4.2490 | | 8.3281 | 0.0691 | 88.9458 | -0.6250 | -0.7 | -91 | | 57 12.8 | 0.1170 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.1666 | 0.6 | 3.5206 | 6.9003 | 0.0453 | 50.3198 | 0.6429 | 1.3 | | | 93 36 | 16.4 | 0.1501 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.1476 | 0.7 | 3.4514 | 6.7648 | 0.0405 | 44.5496 | 0.5551 | 1.2 | | | 80 36 | 15.7 | 0.1444 | " | 9 | 1.001464 | 0.000167 |
| -01E | 0.2234 | 0.5 | 3.6745 | 7.2021 | 0.0539 | 66.6311 | -0.0707 | -0.1 | -10 | | 42 | 18.0 | 0.1650 | " | 12 | 1.001464 | 0.000167 |
| -01F | 0.3786 | 0.5 | 6.1283 | 12.0114 | 0.0866 | 113.8451 | 0.7909 | 0.7 | 115 | | 63 | 15.1 | 0.1384 | " | 15 | 1.001464 | 0.000167 |
| -01G | 0.4900 | 0.6 | 9.6189 | 18.8531 | 0.1086 | 144.3173 | -1.8845 | -1.3 | -273 | | 69 12.6 | 0.1159 | " | 21 | 1.001464 | 0.000167 | |
| -01H | 0.4557 | 0.7 | 10.7866 | 21.1418 | 0.1009 | 135.0800 | -0.7277 | -0.5 | -105 | 125 | | 3.3 | 0.0299 | " | 25 | 1.001464 | 0.000167 |
| -01I | 0.4636 | 0.7 | 11.0110 | 21.5815 | 0.0985 | 137.6639 | -0.4748 | -0.3 | -69 | 191 | | 2.0 | 0.0186 | " | 35 | 1.001464 | 0.000167 |
| | | | | | | | | Plateau Age | | 66 20 | | 65.2 | | | | | |

Vent 5206 - USGS 131 - 66-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ± 1 sem |
|-----------|---|-----|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|---------|--------------------|--|-----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21475-01A | 0.8539 | 0.1 | 3.9517 | 7.7454 | 0.1785 | 253.7064 | -1.2769 | -0.5 | -185 | 180 | 4.1 | 0.0353 | 8.04±0.03 | 3 | 1.001464 | 0.000167 |
| -01B | 0.3200 | 0.4 | 4.3695 | 8.5642 | 0.0731 | 95.2093 | -0.0934 | -0.1 | -14 | 64 | 11.8 | 0.1008 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.1759 | 0.7 | 4.4017 | 8.6273 | 0.0466 | 52.0082 | -0.2072 | -0.4 | -30 | 39 | 16.2 | 0.1386 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.1467 | 0.8 | 4.1025 | 8.0409 | 0.0411 | 43.9265 | 0.4209 | | 1.0 | 61 36 | 15.8 | 0.1351 | " | 9 | 1.001464 | 0.000167 |
| -01E | 0.2247 | 0.5 | 4.3148 | 8.4570 | 0.0561 | 66.7997 | -0.0097 | | 0.0 | -1 40 | 18.0 | 0.1537 | " | 12 | 1.001464 | 0.000167 |
| -01F | 0.3782 | 0.5 | 6.3536 | 12.4530 | 0.0861 | 113.0635 | 0.5164 | | 0.5 | 75 59 | 15.5 | 0.1324 | " | 15 | 1.001464 | 0.000167 |
| -01G | 0.5107 | 0.6 | 10.2227 | 20.0364 | 0.1136 | 152.2293 | 0.4125 | | 0.3 | 60 74 | 14.0 | 0.1198 | " | 21 | 1.001464 | 0.000167 |
| -01H | 0.4980 | 0.6 | 10.4008 | 20.3856 | 0.1137 | 148.4132 | 0.3940 | | 0.3 | 57 88 | 3.0 | 0.0259 | " | 25 | 1.001464 | 0.000167 |
| -01I | 0.5212 | 0.6 | 11.6911 | 22.9146 | 0.1177 | 154.3892 | -0.4619 | -0.3 | -67 | 234 | 1.6 | 0.0137 | " | 35 | 1.001464 | 0.000167 |
| | | | | | | | | Plateau Age | | 19 18 | 100.0 | | | | | |

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem | |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|-------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | |
| | | | | | rad | | | | | | | | | | | |
| 21489-01A | 0.7529 | 0.2 | 6.1178 | 11.9909 | 0.1552 | 223.6225 | -1.5026 | -0.7 | -217 | 122 | 6.1 | 0.0585 | 8.01±0.03 | 3 | 0.999173 | 0.000305 |
| -01B | 0.3824 | 0.3 | 4.4365 | 8.6955 | 0.0863 | 114.0778 | -0.1670 | -0.1 | -24 | 55 | 16.6 | 0.1604 | " | 5 | 0.999125 | 0.000311 |
| -01C | 0.2151 | 0.5 | 4.0184 | 7.8761 | 0.0549 | 65.7056 | 1.5793 | 2.4 | 228 | 38 | 18.2 | 0.1761 | " | 7 | 0.999109 | 0.000313 |
| -01D | 0.1473 | 0.7 | 3.8803 | 7.6054 | 0.0418 | 45.3397 | 1.5195 | 3.3 | 219 | 33 | 16.5 | 0.1595 | " | 9 | 0.999093 | 0.000316 |
| -01E | 0.1295 | 0.8 | 3.4604 | 6.7823 | 0.0383 | 39.8123 | 1.2898 | 3.2 | 186 | 30 | 17.2 | 0.1665 | " | 12 | 0.999049 | 0.000322 |
| -01F | 0.1644 | 1 | 5.6838 | 11.1402 | 0.0436 | 49.9931 | 1.2127 | 2.4 | 175 | 37 | 14.7 | 0.1415 | " | 17 | 0.999034 | 0.000324 |
| -01G | 0.2428 | 1.3 | 11.4321 | 22.4069 | 0.0603 | 73.0143 | 1.2090 | 1.6 | 175 | 56 | 8.2 | 0.0796 | " | 25 | 0.999019 | 0.000326 |
| -01H | 0.3047 | 1.3 | 13.6642 | 26.7818 | 0.0732 | 90.8673 | 0.7021 | 0.8 | 101 | 146 | 2.4 | 0.0233 | " | 35 | 0.998979 | 0.000332 |
| | | | | | | | | Plateau Age | 198 | 16 | 77.3 | | | | | |

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | | | | | |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|-----------------------------|---------|--------------------|--|-----------------------------------|------------------|-----------|---|----------|----------|----------|
| Ca | | | | | | | | | | ⁴⁰ Ar | ± 1 sem discrim. | | | | | | |
| 21490-01A | 0.8263 | 0.1 | 4.4003 | 8.6247 | 0.1710 | 241.3927 | -5.9766 | -2.5 | -868 | 144 | 5.5 | 0.0487 | 8.04±0.03 | 3 | 0.998966 | 0.000335 | |
| -01B | 0.4544 | 0.3 | 5.4566 | 10.6950 | 0.0989 | 135.0999 | -0.6609 | -0.5 | -96 | | 65 | 15.8 | 0.1392 | " | 5 | 0.998953 | 0.000336 |
| -01C | 0.2777 | 0.5 | 5.2847 | 10.8001 | 0.0653 | 82.6819 | 0.2610 | 0.3 | | 38 | 46 | 18.4 | 0.1629 | " | 7 | 0.998918 | 0.000342 |
| -01D | 0.1916 | 0.8 | 5.3156 | 10.4185 | 0.0497 | 58.1495 | 1.1677 | 2.0 | 169 | 43 | 16.7 | 0.1472 | " | " | 9 | 0.998906 | 0.000343 |
| -01E | 0.1558 | 0.9 | 4.8881 | 9.5807 | 0.0439 | 47.6628 | 1.3718 | 2.9 | 199 | 38 | 17.5 | 0.1547 | " | " | 12 | 0.998896 | 0.000345 |
| -01F | 0.1657 | 1.1 | 6.7858 | 13.3002 | 0.0450 | 50.3305 | 1.2183 | 2.4 | 177 | 40 | 15.0 | 0.1322 | " | " | 17 | 0.998867 | 0.000349 |
| -01G | 0.2234 | 1.7 | 11.2596 | 26.6124 | 0.0589 | 68.1421 | 1.9256 | 2.8 | 279 | 96 | 8.3 | 0.0735 | " | " | 25 | 0.998857 | 0.000350 |
| -01H | 0.2466 | 1.9 | 18.1887 | 34.2377 | 0.0580 | 73.1206 | 0.8149 | 1.1 | 118 | 140 | 2.8 | 0.0250 | " | " | 35 | 0.998849 | 0.000351 |
| | | | | | | | Plateau Age | 186 | 22 | 60.3 | | | | | | | |

[illegible]

West of ATR Complex - NRF #6P - 64-ft depth (whole rock - hand magnet)

| Ca | | | | | | | | | | | | | | | | |
|-----------------------|-----------|-------|-----------|---------|-----------|-----------|------------|----------------|-------|---------|---------|-----------------------------------|--------------------------------|---------------|----------|----------|
| 40Ar ± 1 sem discrim. | | | | | | | | | | | | | | | | |
| Run ID | 36Ar/39Ar | %36Ar | 37Ar/39Ar | Ca/K | 38Ar/39Ar | 40Ar/39Ar | 40Ar*/39Ar | %40Ar Age (ka) | | ± 1 sem | %39Ar | 39Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | 40Ar | ± 1 sem |
| 21476-01A | 1.0955 | 0.1 | 2.5034 | 4.9067 | 0.2197 | 320.0359 | -7.2473 | -2.3 | -1044 | 164 | 5.4 | 0.0499 | 7.98±0.03 | 3 | 1.001464 | 0.000167 |
| -01B | 0.7106 | 0.1 | 3.3504 | 6.5669 | 0.1467 | 207.7522 | -4.3979 | -2.1 | -634 | | 82 14.6 | 0.1359 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.4471 | 0.2 | 3.6515 | 7.1570 | 0.1002 | 132.7214 | -0.6383 | -0.5 | -92 | | 58 18.5 | 0.1727 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.3000 | 0.4 | 3.8537 | 7.5533 | 0.0708 | 90.5848 | 1.2329 | 1.4 | 178 | 80 | 16.2 | 0.1507 | " | 9 | 1.001464 | 0.000167 |
| -01E | 0.2464 | 0.4 | 3.8668 | 7.5790 | 0.0578 | 74.4409 | 1.1234 | 1.5 | 162 | 44 | 16.7 | 0.1561 | " | 12 | 1.001464 | 0.000167 |
| -01F | 0.2742 | 0.5 | 4.5558 | 8.9294 | 0.0646 | 82.1547 | 0.5725 | 0.7 | | 82 50 | 11.7 | 0.1094 | " | 15 | 1.001464 | 0.000167 |
| -01G | 0.3708 | 0.7 | 8.9931 | 17.6264 | 0.0847 | 110.4646 | 0.3615 | 0.3 | | 52 63 | 11.0 | 0.1029 | " | 21 | 1.001464 | 0.000167 |
| -01H | 0.3769 | 0.7 | 8.8875 | 17.4196 | 0.0899 | 113.6544 | 1.7314 | 1.5 | 249 | 113 | 3.7 | 0.0347 | " | 25 | 1.001464 | 0.000167 |
| -01I | 0.4558 | 0.7 | 11.9361 | 23.3947 | 0.1013 | 137.5078 | 2.2629 | 1.6 | 326 | 180 | 2.2 | 0.0205 | " | 35 | 1.001464 | 0.000167 |
| Plateau Age | | | | | | | | | 250 | 26 | 61.6 | | | | | |

West of ATR Complex - NRF #6P - 64-ft depth (whole rock - Frantz more magnetic)

| Run ID | 36Ar/39Ar | %36Ar | 37Ar/39Ar | Ca/K | 38Ar/39Ar | 40Ar/39Ar | 40Ar*/39Ar | %40Ar | Age (ka) | ± 1 sem | %39Ar | 39Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | 40Ar discrim. | ± 1 sem |
|-------------|-----------|-------|-----------|---------|-----------|-----------|------------|-------|----------|---------|-------|-----------------------------------|--------------------------------|---------------|---------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21477-01A | 0.9152 | 0.1 | 3.4996 | 6.8593 | 0.1840 | 267.1328 | -5.6172 | -2.1 | -803 | 174 | 10.5 | 0.0355 | 7.92±0.02 | 3 | 1.001464 | 0.000167 |
| -01B | 0.5031 | 0.3 | 4.6738 | 9.1606 | 0.1083 | 149.7157 | 0.0318 | 0.0 | 5 | 94 | 19.3 | 0.0650 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.2983 | 0.5 | 5.0155 | 9.8303 | 0.0699 | 89.9373 | 1.3741 | 1.5 | 196 | 68 | 19.1 | 0.0645 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.2026 | 0.7 | 4.7825 | 9.3737 | 0.0526 | 61.7069 | 1.6715 | 2.7 | 239 | 40 | 15.2 | 0.0513 | " | 9 | 1.001464 | 0.000167 |
| -01E | 0.2060 | 0.7 | 5.4782 | 10.7372 | 0.0537 | 62.6845 | 1.7085 | 2.7 | 244 | 72 | 15.2 | 0.0511 | " | 12 | 1.001464 | 0.000167 |
| -01F | 0.2815 | 0.6 | 6.2625 | 12.2746 | 0.0701 | 85.4272 | 1.9701 | 2.3 | 282 | 106 | 9.9 | 0.0332 | " | 15 | 1.001464 | 0.000167 |
| -01G | 0.3949 | 1.3 | 18.1651 | 35.6036 | 0.0881 | 118.3327 | 2.0758 | | 1.7 297 | 149 | 7.1 | 0.0241 | " | 21 | 1.001464 | 0.000167 |
| -01H | 0.4121 | 1.4 | 19.8199 | 38.8470 | 0.0877 | 120.6798 | -0.6044 | -0.5 | -86 | 328 | 2.2 | 0.0074 | " | 25 | 1.001464 | 0.000167 |
| -01I | 0.4315 | 1.5 | 22.5131 | 44.1258 | 0.1031 | 123.8405 | -3.0627 | -2.4 | -438 | 452 | 1.5 | 0.0050 | " | 35 | 1.001464 | 0.000167 |
| Plateau Age | | | | | | | | | 294 | 28 | 70.2 | | | | | |

West of ATR Complex - NRF #6P - 64-ft depth (whole rock - Frantz less magnetic)

| Run ID | 36Ar/39Ar | %36Ar | 37Ar/39Ar | Ca/K | 38Ar/39Ar | 40Ar/39Ar | 40Ar*/39Ar | %40Ar | Age (ka) | ± 1 sem | %39Ar | 39Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | 40Ar discrim. | ± 1 sem |
|-------------|-----------|-------|-----------|---------|-----------|-----------|------------|-------|----------|---------|---------|-----------------------------------|--------------------------------|---------------|---------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21478-01A | 1.0300 | 0.1 | 3.4983 | 6.8566 | 0.2113 | 300.4706 | -5.5323 | -1.8 | -790 | 185 | 5.1 | 0.0356 | 7.92±0.03 | 3 | 1.001464 | 0.000167 |
| -01B | 0.6180 | 0.2 | 4.8534 | 9.5127 | 0.1262 | 180.7118 | -2.6664 | -1.5 | -381 | | 84 14.2 | 0.0984 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.3834 | 0.4 | 5.4049 | 10.5936 | 0.0864 | 113.3802 | -0.1914 | -0.2 | -27 | | 58 18.6 | 0.1291 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.2487 | 0.6 | 5.3073 | 10.4023 | 0.0621 | 75.3474 | 1.8368 | 2.4 | 262 | 51 | 16.6 | 0.1148 | " | 9 | 1.001464 | 0.000167 |
| -01E | 0.1873 | 0.7 | 5.0823 | 9.9613 | 0.0479 | 56.7520 | 1.4904 | 2.6 | 213 | 39 | 18.2 | 0.1258 | " | 12 | 1.001464 | 0.000167 |
| -01F | 0.2007 | 0.8 | 5.8341 | 11.4348 | 0.0513 | 61.0293 | 1.8344 | 3.0 | 262 | 50 | 12.5 | 0.0869 | " | 15 | 1.001464 | 0.000167 |
| -01G | 0.2628 | 1.1 | 10.6345 | 20.8437 | 0.0641 | 78.5168 | 1.2808 | 1.6 | 183 | 62 | 11.5 | 0.0795 | " | 21 | 1.001464 | 0.000167 |
| -01I | 0.3077 | 1.0 | 10.7916 | 21.1515 | 0.0688 | 89.1728 | -1.4290 | -1.6 | -204 | 226 | 1.6 | 0.0107 | " | 25 | 1.001464 | 0.000167 |
| -01J | 0.3592 | 1.5 | 19.2125 | 37.6566 | 0.0705 | 105.4120 | 0.2004 | | 0.2 | 29 208 | 1.7 | 0.0117 | " | 35 | 1.001464 | 0.000167 |
| Plateau Age | | | | | | | | | 269 | 24 | 58.8 | | | | | |

High K2O flow - USGS 128 - 173-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ± 1 sem | |
|-----------|------------------------------------|--------------------|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|---------|--------------------|--|-----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | | |
| 21450-01A | 0.4789 | 0.0 | 0.6460 | 1.2663 | 0.1109 | 151.2052 | 9.0018 | | 6.0 | 1275 | 215 | 2.5 | 0.0277 | 7.85±0.03 | 3 | 0.999314 | 0.000202 |
| -01B | 0.6094 | 0.0 | 0.8296 | 1.6260 | 0.1332 | 184.9299 | 3.9622 | | 2.1 | 561 | 106 | 7.8 | 0.0883 | " | 5 | 0.999344 | 0.000197 |
| -01C | 0.6138 | 0.1 | 1.3338 | 2.6142 | 0.1329 | 184.3044 | 2.0672 | 1.1 | 293 | 73 | 12.2 | 0.1382 | " | 7 | 0.999352 | 0.000196 | |
| -01D | 0.4604 | 0.1 | 1.5599 | 3.0574 | 0.1026 | 138.5688 | 1.9323 | 1.4 | 274 | 59 | 14.1 | 0.1597 | " | 9 | 0.999360 | 0.000194 | |
| -01E | 0.2683 | 0.2 | 1.6742 | 3.2814 | 0.0644 | 81.9009 | 2.3309 | 2.8 | 330 | 38 | 18.5 | 0.2097 | " | 12 | 0.999444 | 0.000183 | |
| -01F | 0.1657 | 0.3 | 1.5474 | 3.0328 | 0.0454 | 51.1853 | 2.0849 | 4.1 | 295 | 21 | 16.0 | 0.1813 | " | 15 | 0.999452 | 0.000182 | |
| -01G | 0.1487 | 0.3 | 1.5898 | 3.1160 | 0.0411 | 45.9994 | 1.9657 | 4.3 | 278 | 35 | 14.9 | 0.1688 | " | 19 | 0.999459 | 0.000181 | |
| -01H | 0.2026 | 0.3 | 2.0654 | 4.0481 | 0.0529 | 62.1586 | 2.1366 | 3.4 | 303 | 50 | 9.6 | 0.1088 | " | 25 | 0.999467 | 0.000180 | |
| -01I | 0.2782 | 0.3 | 3.3157 | 6.4988 | 0.0651 | 82.5636 | 0.1969 | 0.2 | | 28 | 85 | 4.3 | 0.0490 | " | 35 | 0.999498 | 0.000176 |
| | | | | | | | | Plateau Age | 307 | 14 | 85.4 | | | | | | |

High K2O flow - USGS 128 - 173-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21450-02A | 0.7854 | 0.1 | 1.6838 | 3.3003 | 0.1605 | 233.6815 | 0.5002 | 0.2 | 71 | 173 | 3.0 | 0.0418 | 7.85±0.03 | 3 | 1.000679 | 0.000635 |
| -02B | 0.7834 | 0.0 | 1.4002 | 2.7443 | 0.1653 | 230.2693 | -2.3626 | -1.0 | -335 | 131 | 5.5 | 0.0763 | " | 4 | 1.000679 | 0.000635 |
| -02C | 0.6842 | 0.1 | 1.5612 | 3.0600 | 0.1452 | 203.2380 | 0.1152 | 0.1 | 16 | 108 | 7.9 | 0.1089 | " | 5 | 1.000679 | 0.000635 |
| -02D | 0.5586 | 0.1 | 1.6219 | 3.1788 | 0.1173 | 165.8056 | 0.0028 | 0.0 | 0 | 98 | 8.3 | 0.1150 | " | 6 | 1.000679 | 0.000635 |
| -02E | 0.4288 | 0.1 | 1.8044 | 3.5366 | 0.0971 | 129.1429 | 1.9072 | 1.5 | 270 | 81 | 8.1 | 0.1118 | " | 7 | 1.000679 | 0.000635 |
| -02F | 0.3148 | 0.1 | 1.7307 | 3.3922 | 0.0735 | 95.5639 | 2.2026 | 2.3 | 312 | 69 | 7.8 | 0.1082 | " | 8 | 1.000679 | 0.000635 |
| -02G | 0.2288 | 0.2 | 1.6987 | 3.3294 | 0.0574 | 70.4169 | 2.5851 | 3.7 | 366 | 56 | 7.9 | 0.1092 | " | 9 | 1.000679 | 0.000635 |
| -02H | 0.1572 | 0.3 | 1.6607 | 3.2549 | 0.0422 | 48.9086 | 2.3360 | 4.8 | 331 | 41 | 10.6 | 0.1466 | " | 11 | 1.000679 | 0.000635 |
| -02I | 0.1236 | 0.3 | 1.4879 | 2.9163 | 0.0367 | 38.7266 | 2.1220 | 5.5 | 301 | 31 | 14.3 | 0.1970 | " | 14 | 1.000679 | 0.000635 |
| -02J | 0.1437 | 0.3 | 1.4549 | 2.8515 | 0.0420 | 44.2267 | 1.6636 | 3.8 | 236 | 40 | 9.4 | 0.1298 | " | 16 | 1.000679 | 0.000635 |
| -02K | 0.1958 | 0.2 | 1.7442 | 3.4187 | 0.0511 | 59.7597 | 1.7458 | 2.9 | 247 | 47 | 9.4 | 0.1295 | " | 20 | 1.000679 | 0.000635 |
| -02L | 0.2646 | 0.3 | 2.5823 | 5.0614 | 0.0674 | 79.7598 | 1.3763 | 1.7 | 195 | 76 | 4.7 | 0.0651 | " | 25 | 1.000679 | 0.000635 |
| -02M | 0.3192 | 0.4 | 4.4834 | 8.7874 | 0.0750 | 95.9261 | 1.4897 | 1.5 | 211 | 110 | 2.9 | 0.0404 | " | 35 | 1.000679 | 0.000635 |
| | | | | | | | | Plateau Age | 284 | 18 | 51.3 | | | | | |

High K2O flow - USGS 128 - 173-ft depth (whole rock - Frantz more magnetic)

| Ca | | | | | | | | | | | | | | | | | |
|-----------|-----------|------------------|-----------|---------|-----------|-----------|------------|----------------|------|---------|-------|-------------------------|----------------------|------------------|----------|----------|----------|
| 40Ar | | ± 1 sem discrim. | | | | | | | | | | | | | | | |
| Run ID | 36Ar/39Ar | %36Ar | 37Ar/39Ar | Ca/K | 38Ar/39Ar | 40Ar/39Ar | 40Ar*/39Ar | %40Ar Age (ka) | | ± 1 sem | %39Ar | 39Ar moles (x 10-14) | J (x10-5) ± 1 sem | Laser (watts) | | | |
| 21460-01A | 0.7802 | 0.0 | 1.3033 | 2.5544 | 0.1590 | 226.4979 | -5.4971 | -2.4 | -779 | 121 | 9.3 | 0.0673 | 7.85±0.02 | 3 | 1.002122 | 0.000237 | |
| -01B | 0.5549 | 0.1 | 1.7168 | 3.3648 | 0.1188 | 162.7528 | -2.2044 | -1.4 | -312 | | 71 | 17.3 | 0.1250 | " | 5 | 1.002115 | 0.000236 |
| -01C | 0.3103 | 0.2 | 1.8270 | 3.5809 | 0.0732 | 94.3896 | 2.2284 | 2.4 | 316 | 49 | 19.3 | 0.1394 | " | 7 | 1.002107 | 0.000236 | |
| -01D | 0.1717 | 0.3 | 1.7630 | 3.4555 | 0.0453 | 52.8871 | 1.9566 | 3.7 | 277 | 39 | 16.6 | 0.1201 | " | 9 | 1.002100 | 0.000236 | |
| -01E | 0.1421 | 0.3 | 1.5186 | 2.9765 | 0.0411 | 44.1970 | 2.0443 | 4.6 | 290 | 37 | 17.1 | 0.1236 | " | 12 | 1.002085 | 0.000235 | |
| -01F | 0.1968 | 0.3 | 1.8158 | 3.5590 | 0.0516 | 59.8461 | 1.4399 | 2.4 | 204 | 55 | 10.2 | 0.0739 | " | 15 | 1.002077 | 0.000235 | |
| -01G | 0.2650 | 0.6 | 5.9302 | 11.6232 | 0.0664 | 79.3776 | 1.0448 | 1.3 | 148 | 89 | 6.0 | 0.0435 | " | 21 | 1.002069 | 0.000235 | |
| -01H | 0.3022 | 0.7 | 7.3424 | 14.3912 | 0.0731 | 89.8315 | 0.5300 | 0.6 | | 75 | 196 | 2.0 | 0.0146 | " | 25 | 1.002044 | 0.000235 |
| -01I | 0.3337 | 0.9 | 10.5936 | 20.7634 | 0.0789 | 99.9300 | 1.5405 | 1.5 | 218 | 271 | 1.3 | 0.0094 | " | 30 | 1.002036 | 0.000235 | |
| -01J | 0.5809 | 0.4 | 7.5272 | 14.7533 | 0.1294 | 174.9534 | 2.7737 | 1.6 | 393 | 400 | 0.9 | 0.0068 | " | 35 | 1.002027 | 0.000235 | |
| | | | | | | | | Plateau Age | 289 | 21 | 72.5 | | | | | | |

High K2O flow - USGS 128 - 173-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ± 1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|---------------|------------------------------------|------------------------------------|-------------------------------------|--------------------|------------|-----------|--------------------|--|-----------------------------------|------------------|------------------------------|-----------------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21466-01A | 0.8070 | 0.0 | 1.1162 | 2.1879 | 0.1726 | 237.6113 | 1.4933 | | 0.6 212 | 148 | 6.2 | 0.0411 | 7.86±0.03 | 3 | 1.002354 | 0.000264 |
| -01B | 0.6422 | 0.1 | 1.5567 | 3.0512 | 0.1379 | 188.8171 | 0.9820 | | 0.5 139 | | 92 14.6 | 0.0972 | " | 5 | 1.002354 | 0.000264 |
| -01C | 0.3994 | 0.1 | 1.7220 | 3.3751 | 0.0901 | 119.0258 | 2.2811 | | 1.9 324 | | 64 18.3 | 0.1221 | " | 7 | 1.002355 | 0.000263 |
| -01D | 0.2264 | 0.2 | 1.7048 | 3.3415 | 0.0562 | 68.7371 | 2.6092 | 3.8 | 370 | 50 | 16.2 | 0.1083 | " | 9 | 1.002355 | 0.000262 |
| -01E | 0.1485 | 0.3 | 1.7255 | 3.3821 | 0.0412 | 46.0317 | 2.7121 | 5.9 | 385 | 40 | 17.6 | 0.1171 | " | 12 | 1.002354 | 0.000262 |
| -01F | 0.1634 | 0.3 | 2.0010 | 3.9220 | 0.0449 | 50.1372 | 2.4812 | 4.9 | 352 | 46 | 12.3 | 0.0819 | " | 15 | 1.002354 | 0.000262 |
| -01G | 0.1974 | 0.3 | 2.5094 | 4.9184 | 0.0470 | 59.7349 | 2.1638 | 3.6 | 307 | 89 | 5.6 | 0.0374 | " | 17 | 1.002353 | 0.000261 |
| -01H | 0.2384 | 0.4 | 3.1848 | 6.2422 | 0.0564 | 70.7193 | 1.1972 | | 1.7 170 | 127 | 3.3 | 0.0223 | " | 19 | 1.002352 | 0.000261 |
| -01I | 0.2665 | 0.5 | 5.0216 | 9.8424 | 0.0639 | 81.1919 | 3.6159 | | 4.4 513 | 181 | 2.2 | 0.0148 | " | 21 | 1.002352 | 0.000261 |
| -01J | 0.2773 | 0.5 | 5.2387 | 10.2678 | 0.0724 | 83.8553 | 3.1377 | | 3.7 445 | 199 | 2.0 | 0.0134 | " | 25 | 1.002349 | 0.000260 |
| -01K | 0.3045 | 0.9 | 10.1704 | 19.9339 | 0.0806 | 92.7263 | 4.4780 | | 4.8 635 | 234 | 1.7 | 0.0114 | " | 35 | 1.002348 | 0.000259 |
| | | | | | | | | Plateau Age | 264 | 25 | 51.7 | | | | | |

High K2O flow - USGS 128 - 173-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ± 1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|----------------|------------------------------------|------------------------------------|-------------------------------------|--------------------|------------|------------|--------------------|--|-----------------------------------|------------------|------------------------------|-----------------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21466-02A | 0.7883 | 0.0 | 1.2949 | 2.5381 | 0.1662 | 231.3848 | 0.7712 | | 0.3 109 | 117 | 7.9 | 0.0679 | 7.86±0.03 | 3 | 1.002346 | 0.000259 |
| -02B | 0.5780 | 0.1 | 1.8627 | 3.6509 | 0.1247 | 169.1159 | 0.0806 | | 0.0 | 11 | 65 18.0 | 0.1538 | " | 5 | 1.002345 | 0.000259 |
| -02C | 0.3241 | 0.1 | 1.7265 | 3.3840 | 0.0741 | 97.8291 | 3.1081 | 3.2 | 441 | 48 | 19.7 | 0.1683 | " | 7 | 1.002342 | 0.000258 |
| -02D | 0.1735 | 0.3 | 1.7387 | 3.4078 | 0.0464 | 53.7183 | 3.0728 | 5.7 | 436 | 37 | 17.3 | 0.1475 | " | 9 | 1.002340 | 0.000258 |
| -02E | 0.1415 | 0.3 | 1.5860 | 3.1086 | 0.0403 | 43.7848 | 2.4893 | 5.7 | 353 | 34 | 17.1 | 0.1462 | " | 12 | 1.002338 | 0.000257 |
| -02F | 0.1887 | 0.3 | 2.1511 | 4.2161 | 0.0503 | 57.5240 | 2.4811 | 4.3 | 352 | 54 | 10.3 | 0.0878 | " | 15 | 1.002332 | 0.000256 |
| -02G | 0.2517 | 0.6 | 5.2231 | 10.2372 | 0.0600 | 76.0196 | 2.7798 | 3.6 | 394 | 79 | 5.6 | 0.0480 | " | 20 | 1.002329 | 0.000256 |
| -02H | 0.2866 | 0.8 | 7.8268 | 15.3406 | 0.0674 | 85.4843 | 2.2490 | 2.6 | 319 | 147 | 2.4 | 0.0209 | " | 25 | 1.002327 | 0.000255 |
| -02I | 0.3312 | 0.9 | 10.5287 | 20.6362 | 0.0778 | 97.2044 | 1.1342 | 1.2 | 161 | 222 | 1.6 | 0.0138 | " | 35 | 1.002324 | 0.000255 |
| | | | | | | | | Plateau Age | 277 | 20 | 74.0 | | | | | |

S. CFA Buried Vent(s) Upper flow - USGS 128 - 272-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21501-01A | 0.5347 | 0.1 | 2.3860 | 4.6839 | 0.1181 | 161.9718 | 2.4976 | 1.5 | 368 | 112 | 4.2 | 0.0579 | 8.14±0.05 | 3 | 0.999617 | 0.000194 |
| -01B | 0.1326 | 0.5 | 2.1964 | 4.3111 | 0.0374 | 41.7482 | 2.3281 | 5.6 | 343 | 38 | 9.8 | 0.1369 | " | 5 | 0.999617 | 0.000194 |
| -01C | 0.0985 | 0.9 | 3.1905 | 6.2669 | 0.0315 | 31.4965 | 2.3409 | 7.4 | 345 | 44 | 11.1 | 0.1550 | " | 7 | 0.999617 | 0.000194 |
| -01D | 0.1335 | 0.7 | 3.5387 | 6.9526 | 0.0381 | 41.7319 | 2.1555 | 5.2 | 318 | 34 | 10.2 | 0.1423 | " | 9 | 0.999617 | 0.000194 |
| -01E | 0.2839 | 0.4 | 3.9048 | 7.6740 | 0.0676 | 86.0709 | 1.6154 | 1.9 | 239 | 39 | 14.8 | 0.2054 | " | 12 | 0.999617 | 0.000194 |
| -01F | 0.4105 | 0.3 | 4.4504 | 8.7498 | 0.0926 | 124.5047 | 2.2809 | 1.8 | 337 | 50 | 31.9 | 0.4429 | " | 17 | 1.001200 | 0.000500 |
| -01G | 0.4637 | 0.3 | 4.7348 | 9.3108 | 0.1028 | 140.7153 | 2.6366 | | 1.9 389 | 52 | 14.9 | 0.2077 | " | 25 | 0.999617 | 0.000194 |
| -01H | 0.4702 | 0.2 | 3.4925 | 6.8616 | 0.1043 | 142.8472 | 2.7213 | | 1.9 401 | 122 | 3.0 | 0.0423 | " | 35 | 0.999617 | 0.000194 |
| | | | | | | | | Plateau Age | 318 | 18 | 82.1 | | | | | |

S. CFA Buried Vent(s) Upper flow - USGS 128 - 272-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21502-01A | 0.3570 | 0.3 | 3.5705 | 7.0153 | 0.0812 | 111.2649 | 4.9644 | | 4.5 727 | 113 | 5.1 | 0.0441 | 8.10±0.05 | 3 | 0.999617 | 0.000194 |
| -01B | 0.1083 | 1.2 | 4.5922 | 9.0296 | 0.0334 | 35.3930 | 3.4354 | | 9.7 504 | 46 | 11.0 | 0.0953 | " | 5 | 0.999617 | 0.000194 |
| -01C | 0.0948 | 1.3 | 4.2393 | 8.3336 | 0.0304 | 30.3717 | 2.4032 | 7.9 | 353 | 39 | 12.0 | 0.1040 | " | 7 | 0.999617 | 0.000194 |
| -01D | 0.1478 | 0.9 | 4.6602 | 9.1637 | 0.0407 | 45.8456 | 2.1048 | 4.6 | 309 | 47 | 10.7 | 0.0933 | " | 9 | 0.999617 | 0.000194 |
| -01E | 0.3437 | 0.4 | 4.4330 | 8.7154 | 0.0784 | 103.8495 | 1.5857 | 1.5 | 233 | 49 | 16.9 | 0.1468 | " | 12 | 0.999617 | 0.000194 |
| -01F | 0.4713 | 0.3 | 5.0277 | 9.8889 | 0.1045 | 142.1035 | 1.7792 | 1.2 | 262 | 47 | 30.6 | 0.2656 | " | 17 | 0.999617 | 0.000194 |
| -01G | 0.4765 | 0.3 | 5.6652 | 11.1480 | 0.1064 | 144.9535 | 3.1251 | | 2.1 459 | 72 | 11.7 | 0.1016 | " | 25 | 0.999617 | 0.000194 |
| -01H | 0.4666 | 0.5 | 7.5499 | 14.8768 | 0.0954 | 140.6248 | 1.9245 | | 1.4 284 | 231 | 2.0 | 0.0174 | " | 35 | 0.999617 | 0.000194 |
| | | | | | | | | Plateau Age | 301 | 22 | 70.2 | | | | | |

S. CFA Buried Vent(s) Upper flow - USGS 128 - 272-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21491-01A | 0.5594 | 0.5 | 10.3909 | 20.5168 | 0.1177 | 169.0293 | 2.8758 | | 1.7 418 | 262 | 3.0 | 0.0161 | 8.07±0.03 | 3 | 0.998827 | 0.000353 |
| -01B | 0.2080 | 1.4 | 10.6372 | 21.0069 | 0.0514 | 64.5634 | 3.3822 | | 5.2 492 | 84 | 8.8 | 0.0470 | " | 5 | 0.998820 | 0.000354 |
| -01C | 0.1493 | 1.9 | 10.2027 | 20.1425 | 0.0409 | 46.0135 | 2.2896 | 4.9 | 333 | 67 | 11.0 | 0.0587 | " | 7 | 0.998814 | 0.000354 |
| -01D | 0.1614 | 1.7 | 10.0060 | 19.7514 | 0.0427 | 49.1961 | 1.8526 | 3.7 | 270 | 61 | 11.6 | 0.0615 | " | 9 | 0.998800 | 0.000355 |
| -01E | 0.2852 | 0.8 | 8.4236 | 16.6089 | 0.0687 | 86.2989 | 1.8497 | 2.1 | 269 | 62 | 17.1 | 0.0910 | " | 12 | 0.998796 | 0.000354 |
| -01F | 0.3896 | 0.6 | 7.7923 | 15.3572 | 0.0865 | 117.8913 | 2.2327 | 1.9 | 325 | 60 | 25.2 | 0.1339 | " | 17 | 0.998793 | 0.000354 |
| -01G | 0.4433 | 0.5 | 8.1224 | 16.0117 | 0.0963 | 133.6408 | 1.9472 | 1.4 | 283 | 80 | 18.2 | 0.0968 | " | 25 | 0.998787 | 0.000353 |
| -01H | 0.4262 | 0.8 | 12.3906 | 24.5005 | 0.0900 | 132.4745 | 6.2998 | | 4.7 917 | 154 | 5.0 | 0.0266 | " | 35 | 0.998787 | 0.000352 |
| | | | | | | | | Plateau Age | 300 | 29 | 83.1 | | | | | |

"D3" flow - USGS 135 - 225-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem | |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|-------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | |
| | | | | | | | rad | | | | | | | | | |
| 21515-01A | 0.8040 | 0.2 | 6.5052 | 12.7502 | 0.1731 | 242.2576 | 2.7248 | 1.1 | 407 | 257 | 5.4 | 0.0298 | 8.27±0.03 | 3 | 0.999617 | 0.000194 |
| -01B | 0.1890 | 1.0 | 6.5746 | 12.8862 | 0.0509 | 59.0156 | 3.1306 | 5.3 | 467 | 75 | 13.9 | 0.0770 | " | 5 | 0.999617 | 0.000194 |
| -01C | 0.1068 | 1.5 | 5.5773 | 10.9315 | 0.0340 | 34.1911 | 2.7669 | 8.1 | 413 | 60 | 16.1 | 0.0922 | " | 7 | 0.999617 | 0.000194 |
| -01D | 0.1101 | 1.3 | 5.0304 | 9.8596 | 0.0327 | 35.5372 | 3.0986 | 8.7 | 462 | 58 | 18.1 | 0.1030 | " | 9 | 0.999617 | 0.000194 |
| -01E | 0.2005 | 0.6 | 4.6071 | 9.0300 | 0.0504 | 61.6429 | 2.1681 | 3.5 | 324 | 69 | 18.6 | 0.1060 | " | 12 | 0.999617 | 0.000194 |
| -01F | 0.4364 | 0.6 | 9.1448 | 17.9238 | 0.0998 | 132.5939 | 3.0718 | 2.3 | 458 | 105 | 17.0 | 0.0975 | " | 17 | 0.999617 | 0.000194 |
| -01G | 0.8970 | 0.6 | 19.6811 | 38.5750 | 0.1959 | 265.9131 | -0.2950 | -0.1 | -44 | 213 | 8.9 | 0.0506 | " | 25 | 0.999617 | 0.000194 |
| -01H | 1.1372 | 0.6 | 25.0067 | 49.0132 | 0.2214 | 343.2139 | 5.8235 | 1.7 | 869 | 500 | 2.0 | 0.0117 | " | 35 | 0.999617 | 0.000194 |
| | | | | | | | | Plateau Age | 472 | 30 | 100.0 | | | | | |

"D3" flow - USGS 135 - 225-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar Age (ka) | | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | | |
|-----------|---|------------------------------------|---------|---------|------------------------------------|------------------------------------|-------------------------------------|-----------------------------|-------|--------|--------------------|--|----------------------------------|------------------|----------|----------|
| Ca | | | | | | | | | | | | ⁴⁰ Ar | ±1 sem discrim. | | | |
| 21516-01A | 0.3182 | 1.4 | 15.4152 | 30.5474 | 0.0735 | 94.9897 | 1.2793 | 1.3 | 190 | 138 | 6.6 | 0.0226 | 8.24±0.03 | 3 | 0.995038 | 0.000478 |
| -01B | 0.1046 | 2.7 | 10.0824 | 19.9033 | 0.0325 | 32.8659 | 2.4817 | 7.5 | 369 | 62 | 15.5 | 0.0532 | " | 5 | 0.995089 | 0.000494 |
| -01C | 0.0697 | 3.5 | 8.8001 | 17.3559 | 0.0255 | 22.7686 | 2.7203 | 11.9 | 404 | 44 | 19.6 | 0.0671 | " | 7 | 0.995189 | 0.000505 |
| -01D | 0.0657 | 3.0 | 6.9147 | 13.6191 | 0.0258 | 22.0987 | 3.0701 | 13.8 | 456 | 46 | 17.8 | 0.0610 | " | 9 | 0.995829 | 0.000505 |
| -01E | 0.1073 | 2.2 | 8.2946 | 16.3532 | 0.0356 | 34.5428 | 3.2019 | 9.2 | 476 | 56 | 17.1 | 0.0586 | " | 12 | 0.996128 | 0.000495 |
| -01F | 0.2637 | 1.2 | 11.0294 | 21.7876 | 0.0643 | 80.8923 | 3.1018 | 3.8 | 461 | 88 | 14.0 | 0.0478 | " | 17 | 0.996472 | 0.000481 |
| -01G | 0.4989 | 2.0 | 35.8351 | 72.0698 | 0.1119 | 146.2246 | 0.2652 | 0.2 | 39 | 126 | 7.1 | 0.0240 | " | 25 | 1.001684 | 0.000255 |
| -01H | 2.4599 | 0.4 | 38.8380 | 78.2805 | 0.4868 | 713.4340 | -18.3540 | -2.5 | -2730 | 511 | 2.3 | 0.0078 | " | 35 | 1.001684 | 0.000255 |
| | | | | | | | | Plateau Age | 453 | 24 | 90.8 | | | | | |

"D3" flow - USGS 135 - 225-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem | |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|-------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21517-01A | 0.3539 | 2.0 | 25.2289 | 49.4487 | 0.0753 | 106.2214 | 2.7141 | 2.5 | 403 | 144 | 7.1 | 0.0171 | 8.22±0.03 | 3 | 1.001684 | 0.000255 |
| -01B | 0.1340 | 4.7 | 22.3563 | 43.8183 | 0.0361 | 40.7798 | 2.6814 | 6.5 | 398 | 58 | 15.9 | 0.0384 | " | 5 | 1.001684 | 0.000255 |
| -01C | 0.0952 | 6.0 | 20.2239 | 39.6389 | 0.0316 | 29.8672 | 3.1869 | 10.5 | 473 | 47 | 17.9 | 0.0433 | " | 7 | 1.001684 | 0.000255 |
| -01D | 0.0922 | 4.0 | 13.0683 | 25.6139 | 0.0306 | 28.8588 | 2.4559 | 8.4 | 364 | 51 | 16.5 | 0.0398 | " | 9 | 1.001684 | 0.000255 |
| -01E | 0.1097 | 3.3 | 12.7133 | 24.9181 | 0.0356 | 34.4645 | 2.8095 | 8.1 | 417 | 58 | 16.4 | 0.0398 | " | 12 | 1.001684 | 0.000255 |
| -01F | 0.1627 | 2.4 | 13.8936 | 27.2315 | 0.0479 | 52.2256 | 4.8629 | 9.2 | 721 | 72 | 13.3 | 0.0322 | " | 17 | 1.001684 | 0.000255 |
| -01G | 0.2417 | 4.2 | 36.4270 | 71.3969 | 0.0562 | 72.5183 | 3.4787 | 4.7 | 516 | 114 | 8.9 | 0.0215 | " | 25 | 1.001684 | 0.000255 |
| -01H | 0.2265 | 4.6 | 36.8036 | 72.1350 | 0.0572 | 64.9474 | 0.4105 | 0.6 | 61 | 201 | 4.0 | 0.0097 | " | 35 | 1.001684 | 0.000255 |
| | | | | | | | | Plateau Age | 449 | 26 | 73.9 | | | | | |

S. CFA Buried Vent(s) Lower flow - USGS 128 - 312-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar* / ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem | |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21499-01A | 0.6599 | 0.2 | 4.7128 | 9.2371 | 0.1391 ^{rad} | 195.1497 | 0.3880 | 0.2 | 56 | 90 | 16.0 | 0.0916 | 8.06±0.05 | 3 | 0.999617 | 0.000194 |
| -01B | 0.4818 | 0.3 | 4.9890 | 9.7784 | 0.1063 | 145.5417 | 3.4961 | 2.4 | 508 | 60 | 23.1 | 0.1325 | " | 5 | 0.999617 | 0.000194 |
| -01C | 0.3254 | 0.5 | 5.4117 | 10.6070 | 0.0756 | 99.6159 | 3.8581 | 3.9 | 561 | 57 | 20.7 | 0.1185 | " | 7 | 0.999617 | 0.000194 |
| -01D | 0.2212 | 0.6 | 4.8475 | 9.5011 | 0.0556 | 69.6881 | 4.6808 | 6.7 | 680 | 60 | 14.5 | 0.0831 | " | 9 | 0.999617 | 0.000194 |
| -01E | 0.1990 | 0.9 | 6.0716 | 11.9003 | 0.0526 | 62.7469 | 4.4276 | 7.0 | 643 | 70 | 11.7 | 0.0669 | " | 12 | 0.999617 | 0.000194 |
| -01F | 0.2837 | 1.0 | 9.7158 | 19.0430 | 0.0675 | 87.0099 | 3.9504 | 4.5 | 574 | 101 | 8.1 | 0.0462 | " | 17 | 0.999617 | 0.000194 |
| -01G | 0.3825 | 1.7 | 22.6958 | 44.4838 | 0.0848 | 115.0843 | 3.8985 | 3.3 | 567 | 169 | 4.2 | 0.0235 | " | 25 | 0.999617 | 0.000194 |
| -01H | 0.3710 | 1.5 | 20.4509 | 40.0838 | 0.0886 | 116.8150 | 8.9173 | 7.5 | 1296 | 343 | 1.6 | 0.0093 | " | 35 | 0.999617 | 0.000194 |
| | | | | | | | Plateau Age | 758 | 28 | 82.3 | | | | | | |

S. CFA Buried Vent(s) Lower flow - USGS 128 - 312-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | | ³⁷ Ar/ ³⁹ Ar | | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar* / ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ± 1 sem |
|-----------|---|-----|------------------------------------|--|---------|------------------------------------|------------------------------------|--------------------------------------|--------------------|----------|---------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | | |
| 21500-01A | 0.6477 | 0.2 | 5.8429 | | 11.4520 | 0.1353 | 193.7540 | -2.5155 | -1.3 | -369 | 93 | 13.8 | 0.0926 | 8.12±0.05 | 3 | 0.999617 | 0.000194 |
| -01B | 0.4934 | 0.3 | 6.0435 | | 11.8452 | 0.1066 | 148.6701 | -0.7201 | -0.5 | -106 | 62 | 22.1 | 0.1477 | " | 5 | 0.999617 | 0.000194 |
| -01C | 0.3544 | 0.6 | 7.2371 | | 14.1846 | 0.0804 | 108.8961 | 1.8674 | 1.7 | 274 | 56 | 19.1 | 0.1273 | " | 7 | 0.999617 | 0.000194 |
| -01D | 0.2570 | 0.6 | 5.6578 | | 11.0893 | 0.0618 | 80.6375 | 3.0595 | 3.8 | 448 | 56 | 15.5 | 0.1036 | " | 9 | 0.999617 | 0.000194 |
| -01E | 0.2357 | 0.8 | 7.0602 | | 13.8381 | 0.0599 | 73.9475 | 2.9436 | 4.0 | 431 | 57 | 12.9 | 0.0861 | " | 12 | 0.999617 | 0.000194 |
| -01F | 0.2693 | 1.0 | 9.4235 | | 18.4701 | 0.0635 | 86.2220 | 5.2527 | 6.1 | 769 | 75 | 10.2 | 0.0680 | " | 17 | 0.999617 | 0.000194 |
| -01G | 0.3366 | 1.7 | 20.5909 | | 40.3583 | 0.0753 | 103.1020 | 2.6361 | 2.5 | 386 | 128 | 4.8 | 0.0321 | " | 25 | 0.999617 | 0.000194 |
| -01H | 0.3811 | 1.9 | 27.2869 | | 53.4823 | 0.0938 | 117.5029 | 4.1293 | 3.4 | 605 | 326 | 1.6 | 0.0104 | " | 35 | 0.999617 | 0.000194 |

Plateau Age (No Plateau Age)

S. CFA Buried Vent(s) Lower flow - USGS 128 - 312-ft depth (whole rock - Frantz less magnetic)

| Ca | | | | | | | | | | | | | | | | | |
|------------------|------------------------------------|--------------------|------------------------------------|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|---------|--------------------|--|-----------------------------------|------------------|----------|----------|----------|
| ± 1 sem discrim. | | | | | | | | | | | | | | | | | |
| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | | | |
| 21505-01A | 0.6104 | 0.4 | 8.1665 | 16.0064 | 0.1283 | 182.5342 | 1.8446 | 1.0 | 269 | | 99 | 16.0 | 0.0756 | 8.08±0.03 | 3 | 0.999617 | 0.000194 |
| -01B | 0.4406 | 0.7 | 10.4161 | 20.4156 | 0.0965 | 132.7575 | 2.7356 | 2.0 | 399 | 76 | 23.2 | 0.1092 | " | 5 | 0.999617 | 0.000194 | |
| -01C | 0.3023 | 1.0 | 10.3389 | 20.2642 | 0.0682 | 92.3285 | 3.3909 | 3.6 | 494 | 60 | 19.3 | 0.0909 | " | 7 | 0.999617 | 0.000194 | |
| -01D | 0.2070 | 1.4 | 10.4581 | 20.4978 | 0.0532 | 64.5277 | 3.9324 | 6.0 | 573 | 67 | 15.7 | 0.0739 | " | 9 | 0.999617 | 0.000194 | |
| -01E | 0.1910 | 1.7 | 11.8535 | 23.2328 | 0.0513 | 59.0829 | 3.3465 | 5.6 | 488 | 81 | 12.1 | 0.0572 | " | 12 | 0.999617 | 0.000194 | |
| -01F | 0.2606 | 2.1 | 19.2985 | 37.8250 | 0.0635 | 78.7056 | 2.9236 | 3.7 | 426 | 145 | 8.2 | 0.0384 | " | 17 | 0.999617 | 0.000194 | |
| -01G | 0.4196 | 3.2 | 47.5689 | 93.2349 | 0.0956 | 125.1576 | 4.6021 | 3.6 | 671 | 212 | 4.3 | 0.0197 | " | 25 | 0.999617 | 0.000194 | |
| -01H | 0.4862 | 3.1 | 53.7964 | 105.4409 | 0.1189 | 143.5950 | 3.7658 | 2.5 | 549 | 581 | 1.3 | 0.0057 | " | 35 | 0.999617 | 0.000194 | |
| | | | | | | | Plateau Age | 495 | 33 | 84.0 | | | | | | | |

"E" flow - BG-77-1 - 320-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem | |
|-----------|---|------------------------------------|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|---------|--------------------|--|----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | rad | | | | | | | | | | | | |
| 21461-01A | 0.6314 | 0.2 | 4.4792 | 8.7791 | 0.1417 | 186.8219 | 3.4556 | 1.8 489 | 200 | 22.4 | 0.0213 | 7.85±0.02 | 3 | 1.002202 | 0.000263 | |
| -01B | 0.4733 | 0.5 | 7.8915 | 15.4672 | 0.1032 | 140.9731 | 3.9120 | 2.8 554 | 155 | 26.4 | 0.0251 | " | 5 | 1.002239 | 0.000264 | |
| -01C | 0.4000 | 0.7 | 10.4556 | 20.4929 | 0.0905 | 119.3930 | 3.8830 | 3.2 550 | 180 | 18.9 | 0.0179 | " | 7 | 1.002244 | 0.000264 | |
| -01D | 0.3625 | 1.0 | 13.2679 | 26.0050 | 0.0849 | 108.9118 | 4.5533 | 4.1 644 | 254 | 12.2 | 0.0115 | " | 9 | 1.002249 | 0.000265 | |
| -01E | 0.4648 | 1.0 | 16.7139 | 32.7593 | 0.0896 | 137.8426 | 4.0084 | 2.9 567 | 312 | 9.3 | 0.0087 | " | 12 | 1.002258 | 0.000265 | |
| -01F | 0.7760 | 0.8 | 21.4918 | 42.1239 | 0.1493 | 230.5179 | 6.5531 | 2.8 927 | 551 | 5.6 | 0.0052 | " | 15 | 1.002262 | 0.000265 | |
| -01G | 1.0495 | 1.2 | 45.3931 | 88.9704 | 0.1929 | 305.7346 | 4.1727 | 1.3 591 | 1501 | 2.5 | 0.0023 | " | 17 | 1.002267 | 0.000265 | |
| -01H | 1.3138 | 1.7 | 80.6371 | 158.0488 | 0.3262 | 375.8316 | 0.1073 | 0.0 | 15 1806 | 1.4 | 0.0012 | " | 19 | 1.002279 | 0.000265 | |
| -01I | 1.3213 | 2.2 | 101.6173 | 199.1699 | 0.2441 | 379.6379 | 3.7222 | 0.9 527 | 3470 | 0.6 | 0.0006 | " | 21 | 1.002283 | 0.000265 | |
| -01J | 1.8302 | 3.0 | 198.3933 | 388.8509 | 0.4756 | 563.3851 | 54.7286 | 8.3 7731 | 7124 | 0.4 | 0.0004 | " | 25 | 1.002287 | 0.000265 | |
| -01K | 1.7621 | 2.9 | 183.8885 | 360.4214 | 0.3327 | 477.7320 | -23.0213 | -4.2 | -3262 | 6685 | 0.4 | 0.0004 | " | 35 | 1.002290 | 0.000266 |
| | | | | | | | | Plateau Age | 561 | 89 | 100.0 | | | | | |

"E" flow - BG-77-1 - 320-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | rad | | | | | | | | | | | |
| 21461-02A | 0.6852 | 0.2 | 4.4054 | 8.6346 | 0.1414 | 201.9038 | 2.8801 | 1.4 408 | 138 | 19.6 | 0.0367 | 7.85±0.02 | 3 | 1.002216 | 0.000242 |
| -02B | 0.4985 | 0.4 | 7.0460 | 13.8102 | 0.1075 | 148.6861 | 4.2194 | 2.8 597 | 100 | 27.7 | 0.0518 | " | 5 | 1.002211 | 0.000242 |
| -02C | 0.4180 | 0.7 | 10.1631 | 19.9197 | 0.0905 | 124.7523 | 3.9841 | 3.2 564 | 113 | 20.2 | 0.0378 | " | 7 | 1.002205 | 0.000241 |
| -02D | 0.3898 | 0.9 | 12.9909 | 25.4622 | 0.0828 | 116.0528 | 3.7283 | 3.2 528 | 153 | 12.1 | 0.0225 | " | 9 | 1.002187 | 0.000240 |
| -02E | 0.4744 | 1.0 | 16.4761 | 32.2931 | 0.1031 | 141.2287 | 4.5658 | 3.2 646 | 195 | 9.2 | 0.0171 | " | 12 | 1.002181 | 0.000240 |
| -02F | 0.8155 | 0.9 | 25.3241 | 49.6353 | 0.1687 | 238.0988 | 2.9116 | 1.2 412 | 321 | 5.3 | 0.0097 | " | 15 | 1.002175 | 0.000239 |
| -02G | 1.3025 | 1.9 | 87.0649 | 170.6472 | 0.2761 | 378.2651 | 6.7696 | 1.7 958 | 519 | 4.1 | 0.0073 | " | 21 | 1.002168 | 0.000239 |
| -02H | 1.0098 | 2.1 | 75.7448 | 148.4599 | 0.2134 | 299.8529 | 12.9025 | 4.1 1826 | 1310 | 0.9 | 0.0016 | " | 25 | 1.002156 | 0.000238 |
| -02I | 0.9804 | 2.4 | 82.2651 | 161.2396 | 0.2466 | 283.0533 | 4.7512 | 1.6 672 | 2231 | 0.5 | 0.0009 | " | 30 | 1.002149 | 0.000238 |
| -02J | 0.8257 | 2.2 | 65.7418 | 128.8539 | 0.2576 | 246.6970 | 12.3780 | 4.8 1751 | 2430 | 0.4 | 0.0008 | " | 35 | 1.002142 | 0.000238 |
| | | | | | | | | Plateau Age | 553 | 56 | 100.0 | | | | |

"E" flow - BG-77-1 - 320-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | rad | | | | | | | | | | | |
| 21462-01A | 0.6929 | 0.3 | 6.3476 | 12.4413 | 0.1378 | 202.0298 | -0.0830 | 0.0 -12 | 354 | 21.4 | 0.0093 | 7.85±0.03 | 3 | 1.002297 | 0.000266 |
| -01B | 0.4493 | 0.7 | 10.5732 | 20.7234 | 0.0988 | 134.0247 | 3.5306 | 2.6 500 | 238 | 27.3 | 0.0119 | " | 5 | 1.002301 | 0.000266 |
| -01C | 0.3546 | 1.1 | 13.3277 | 26.1223 | 0.0838 | 106.5192 | 3.9700 | 3.7 562 | 292 | 19.8 | 0.0086 | " | 7 | 1.002304 | 0.000266 |
| -01D | 0.3367 | 1.3 | 15.9656 | 31.2926 | 0.0741 | 101.3053 | 4.2184 | 4.1 598 | 419 | 11.8 | 0.0051 | " | 9 | 1.002313 | 0.000266 |
| -01E | 0.4129 | 1.1 | 15.8970 | 31.1581 | 0.0980 | 125.5708 | 6.2103 | 4.9 880 | 494 | 9.5 | 0.0041 | " | 12 | 1.002316 | 0.000266 |
| -01F | 0.8631 | 1.0 | 29.8317 | 58.4701 | 0.2132 | 262.0940 | 12.4103 | 4.6 1758 | 1036 | 5.2 | 0.0022 | " | 15 | 1.002319 | 0.000266 |
| -01G | 1.3751 | 1.5 | 72.8124 | 142.7124 | 0.3538 | 411.6293 | 16.3429 | 3.8 2314 | 3573 | 1.9 | 0.0007 | " | 17 | 1.002322 | 0.000266 |
| -01H | 1.3189 | 2.0 | 96.1158 | 188.3870 | 0.3617 | 386.0655 | 8.8817 | 2.1 1258 | 4037 | 1.2 | 0.0005 | " | 19 | 1.002327 | 0.000266 |
| -01I | 1.1033 | 2.4 | 95.3348 | 186.8563 | 0.3278 | 346.5339 | 34.0435 | 9.2 4817 | 5665 | 0.9 | 0.0004 | " | 21 | 1.002329 | 0.000266 |
| -01J | 1.2700 | 3.4 | 154.3511 | 302.5282 | 0.3511 | 363.8724 | 5.8114 | 1.4 823 | 5941 | 0.8 | 0.0003 | " | 25 | 1.002331 | 0.000266 |
| -01K | 1.9658 | 4.4 | 307.3531 | 602.4121 | 0.1251 | 586.7003 | 47.4971 | 6.3 6718 | 19814 | 0.3 | 0.0001 | " | 35 | 1.002337 | 0.000266 |
| | | | | | | | | Plateau Age | 510 | 140 | 100.0 | | | | |

"E" flow - BG-77-1 - 320-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | rad | | | | | | | | | | | |
| 21462-02A | 0.7647 | 0.2 | 6.0919 | 11.9402 | 0.1609 | 226.4242 | 3.3252 | 1.5 471 | 217 | 21.2 | 0.0183 | 7.85±0.03 | 3 | 1.002278 | 0.000248 |
| -02B | 0.5008 | 0.6 | 10.8130 | 21.1936 | 0.1140 | 148.9637 | 3.4452 | 2.3 488 | 172 | 26.7 | 0.0231 | " | 5 | 1.002274 | 0.000248 |
| -02C | 0.4270 | 1.0 | 14.5172 | 28.4537 | 0.0979 | 126.9877 | 3.3532 | 2.6 475 | 196 | 17.7 | 0.0153 | " | 7 | 1.002265 | 0.000247 |
| -02D | 0.3953 | 1.2 | 16.3378 | 32.0221 | 0.0928 | 119.9373 | 5.7395 | 4.7 813 | 261 | 11.9 | 0.0103 | " | 9 | 1.002260 | 0.000246 |
| -02E | 0.5557 | 1.0 | 19.1931 | 37.6185 | 0.1145 | 164.7840 | 3.9134 | 2.3 554 | 329 | 9.5 | 0.0081 | " | 12 | 1.002256 | 0.000246 |
| -02F | 0.8662 | 1.1 | 33.9254 | 66.4937 | 0.1722 | 259.9382 | 9.6580 | 3.6 1368 | 616 | 5.4 | 0.0046 | " | 15 | 1.002242 | 0.000245 |
| -02G | 1.0689 | 2.0 | 75.3478 | 147.6817 | 0.2189 | 309.4806 | 3.2763 | 1.0 464 | 636 | 5.1 | 0.0042 | " | 21 | 1.002237 | 0.000244 |
| -02H | 0.7704 | 2.3 | 63.4164 | 124.2962 | 0.1753 | 224.4903 | 4.6095 | 2.0 653 | 1562 | 1.6 | 0.0014 | " | 25 | 1.002232 | 0.000244 |
| -02I | 0.7968 | 2.8 | 79.2671 | 155.3636 | 0.1808 | 238.0615 | 12.2507 | 4.9 1735 | 2776 | 0.9 | 0.0007 | " | 35 | 1.002227 | 0.000243 |
| | | | | | | | | Plateau Age | 553 | 95 | 100.0 | | | | |

"E" flow - BG-77-1 - 320-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem | |
|-----------|---|------------------------------------|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21463-01A | 0.5932 | 0.3 | 6.3344 | 12.4154 | 0.1216 ^{rad} | 179.9362 | 8.4863 | 4.7 | 1204 | 294 | 20.2 | 0.0093 | 7.87±0.05 | 3 | 1.002339 | 0.000266 |
| -01B | 0.4036 | 0.8 | 11.7856 | 23.0998 | 0.0857 | 119.8791 | 3.8453 | 3.2 | 546 | 234 | 25.5 | 0.0117 | " | 5 | 1.002341 | 0.000265 |
| -01C | 0.3138 | 1.4 | 15.0866 | 29.5697 | 0.0627 | 92.9783 | 3.2576 | 3.5 | 462 | 245 | 20.1 | 0.0092 | " | 7 | 1.002343 | 0.000265 |
| -01D | 0.2830 | 1.8 | 17.8527 | 34.9913 | 0.0721 | 87.6548 | 7.1414 | 8.0 | 1014 | 569 | 12.1 | 0.0055 | " | 9 | 1.002347 | 0.000265 |
| -01E | 0.3899 | 1.5 | 20.4464 | 40.0749 | 0.0714 | 113.8056 | 2.4336 | 2.1 | 345 | 502 | 9.5 | 0.0043 | " | 12 | 1.002348 | 0.000265 |
| -01F | 0.6166 | 1.3 | 28.3032 | 55.4743 | 0.1468 | 186.0874 | 9.8077 | 5.2 | 1392 | 900 | 5.8 | 0.0027 | " | 15 | 1.002349 | 0.000265 |
| -01G | 0.9562 | 3.1 | 103.8213 | 203.4898 | 0.1745 | 272.6230 | 4.1325 | 1.4 | 587 | 980 | 5.6 | 0.0026 | " | 25 | 1.002353 | 0.000264 |
| -01H | 0.9610 | 3.1 | 107.6578 | 211.0092 | 0.2401 | 220.5708 | -53.4048 | -22.4 | -7598 | 4359 | 1.1 | 0.0005 | " | 35 | 1.002353 | 0.000264 |
| | | | | | | | Plateau Age | 540 | 150 | 79.7 | | | | | | |

"E" flow - BG-77-1 - 320-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|-----|------------------------------------|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21463-02A | 0.6164 | 0.2 | 5.4319 | 10.6465 | 0.1340 | 180.5915 | 2.2946 | 1.3 | 326 | 156 | 18.9 | 0.0289 | 7.87±0.05 | 3 | 1.002316 | 0.000253 |
| -02B | 0.4166 | 0.7 | 10.6114 | 20.7984 | 0.0928 | 123.2844 | 3.3801 | 2.7 | 480 | 101 | 27.1 | 0.0415 | " | 5 | 1.002313 | 0.000253 |
| -02C | 0.3351 | 1.2 | 14.1733 | 27.7796 | 0.0740 | 100.0480 | 4.0709 | 4.0 | 578 | 117 | 20.4 | 0.0312 | " | 7 | 1.002310 | 0.000252 |
| -02D | 0.2986 | 1.7 | 17.8401 | 34.9667 | 0.0671 | 89.7072 | 4.6492 | 5.1 | 660 | 155 | 12.6 | 0.0193 | " | 9 | 1.002304 | 0.000252 |
| -02E | 0.4063 | 1.4 | 20.5557 | 40.2892 | 0.0912 | 119.7790 | 3.6937 | 3.0 | 524 | 205 | 9.5 | 0.0146 | " | 12 | 1.002300 | 0.000251 |
| -02F | 0.7100 | 1.3 | 31.6603 | 62.0541 | 0.1441 | 206.7118 | 3.4998 | 1.7 | 497 | 341 | 5.5 | 0.0083 | " | 15 | 1.002297 | 0.000251 |
| -02G | 1.1546 | 2.6 | 105.9968 | 207.7538 | 0.2281 | 331.0128 | 5.2555 | 1.5 | 746 | 469 | 4.9 | 0.0075 | " | 25 | 1.002286 | 0.000249 |
| -02H | 0.9054 | 3.1 | 100.8085 | 197.5847 | 0.1906 | 261.1508 | 7.3685 | 2.6 | 1046 | 1303 | 1.1 | 0.0017 | " | 35 | 1.002282 | 0.000249 |
| | | | | | | | Plateau Age | | 550 | 63 | 81.1 | | | | | |

Big Lost flow - BG-77-1 - 427-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|-------------|--------|--------------------|---|-------------------------------|---------------|---------------------------|----------|
| Ca | | | | | | | | | | | | | | | |
| 21447-01A | 0.9342 | 0.0 | 1.1972 | 2.3465 | 0.1858 | 299.7054 | 20.4719 | 6.8 2897 | 235 | 3.1 | 0.0432 | 7.85±0.04 | 3 | 0.999537 | 0.000231 |
| -01B | 0.5659 | 0.1 | 2.0905 | 4.0974 | 0.1175 | 173.1459 | 4.0875 | 579 | 74 | 8.3 | 0.1150 | " | 5 | 0.999537 | 0.000231 |
| -01C | 0.3195 | 0.2 | 2.4203 | 4.7438 | 0.0716 | 99.0912 | 3.7670 | 533 | 41 | 12.5 | 0.1720 | " | 7 | 0.999537 | 0.000231 |
| -01D | 0.1998 | 0.3 | 2.5169 | 4.9331 | 0.0503 | 63.4431 | 3.9271 | 556 | 32 | 13.3 | 0.1840 | " | 9 | 0.999537 | 0.000231 |
| -01E | 0.1535 | 0.4 | 2.4593 | 4.8202 | 0.0417 | 49.7980 | 4.1120 | 582 | 24 | 17.5 | 0.2410 | " | 12 | 0.999537 | 0.000231 |
| -01F | 0.1933 | 0.4 | 2.5142 | 4.9279 | 0.0495 | 61.6344 | 4.0396 | 572 | 29 | 15.0 | 0.2070 | " | 15 | 0.999537 | 0.000231 |
| -01G | 0.2610 | 0.4 | 3.4105 | 6.6847 | 0.0611 | 81.5979 | 3.8337 | 543 | 44 | 9.0 | 0.1240 | " | 17 | 0.999537 | 0.000231 |
| -01H | 0.3072 | 0.4 | 5.0219 | 9.8429 | 0.0689 | 95.7817 | 4.3563 | 617 | 85 | 6.5 | 0.0897 | " | 19 | 0.999537 | 0.000231 |
| -01I | 0.3517 | 0.5 | 7.1033 | 13.9224 | 0.0782 | 109.3319 | 4.7863 | 678 | 73 | 4.4 | 0.0606 | " | 21 | 0.999537 | 0.000231 |
| -01J | 0.3717 | 0.7 | 9.2850 | 18.1986 | 0.0861 | 116.1460 | 5.8249 | 5.0 825 | | 70 5.3 | 0.7280 | " | 25 | 0.999537 | 0.000231 |
| -01K | 0.4941 | 0.7 | 12.1705 | 23.8541 | 0.1062 | 149.1866 | 2.4634 | 1.6 349 | 110 | 2.6 | 0.0358 | " | 30 | 0.999537 | 0.000231 |
| -01L | 0.3211 | 0.6 | 6.6108 | 12.9571 | 0.0774 | 104.6100 | 9.1831 | 8.7 1300 | | 97 2.4 | 0.0330 | " | 35 | 0.999537 | 0.000231 |
| | | | | | | | | Plateau Age | 570 | 14 | 86.6 | | | | |

Big Lost flow - BG-77-1 - 427-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|-----|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21448-01A | 0.4868 | 0.1 | 0.9999 | 1.9599 | 0.1184 ^{rad} | 136.8260 | -7.1431 | -5.2 | -1012 | 351 | 2.0 | 0.0111 | 7.85±0.04 | 3 | 0.999138 | 0.000234 |
| -01B | 0.5053 | 0.1 | 1.6039 | 3.1436 | 0.1217 | 149.0287 | -0.3440 | -0.2 | -49 | 199 | 4.9 | 0.0267 | " | 5 | 0.999145 | 0.000232 |
| -01C | 0.3679 | 0.2 | 2.2936 | 4.4954 | 0.0876 | 114.1782 | 5.5094 | 4.8 | 780 | 173 | 8.8 | 0.0485 | " | 7 | 0.999152 | 0.000231 |
| -01D | 0.2707 | 0.3 | 2.6656 | 5.2247 | 0.0676 | 84.5483 | 4.6736 | 5.5 | 662 | 90 | 11.1 | 0.0607 | " | 9 | 0.999160 | 0.000230 |
| -01E | 0.1781 | 0.4 | 2.9738 | 5.8287 | 0.0491 | 56.9953 | 4.5479 | 8.0 | 644 | 86 | 16.1 | 0.0885 | " | 12 | 0.999174 | 0.000227 |
| -01F | 0.1397 | 0.6 | 2.8313 | 5.5493 | 0.0385 | 45.2180 | 4.1325 | 9.1 | 585 | 42 | 23.6 | 0.1294 | " | 17 | 0.999182 | 0.000225 |
| -01G | 0.1746 | 0.5 | 3.1132 | 6.1018 | 0.0486 | 55.9192 | 4.5355 | 8.1 | 642 | 83 | 17.0 | 0.0934 | " | 21 | 0.999189 | 0.000224 |
| -01H | 0.2218 | 0.6 | 4.5155 | 8.8504 | 0.0581 | 69.5181 | 4.2722 | 6.1 | 605 | 86 | 9.6 | 0.0524 | " | 25 | 0.999212 | 0.000220 |
| -01I | 0.2664 | 0.8 | 7.7024 | 15.0967 | 0.0641 | 81.9521 | 3.7934 | 4.6 | 537 | 110 | 6.9 | 0.0377 | " | 35 | 0.999220 | 0.000218 |
| | | | | | | | | Plateau Age | 610 | 28 | 93.0 | | | | | |

Big Lost flow - BG-77-1 - 427-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem | |
|-----------|---|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21448-02A | 0.6438 | 0.1 | 1.2580 | 2.4658 | 0.1391 | 197.2309 | 6.8500 | 3.5 | 970 | 277 | 1.6 | 0.0161 | 7.85±0.04 | 3 | 1.001783 | 0.000587 |
| -02B | 0.5486 | 0.1 | 2.4170 | 4.7374 | 0.1208 | 166.0368 | 3.9129 | 2.4 | 554 | 122 | 5.4 | 0.0538 | " | 5 | 1.001870 | 0.000586 |
| -02C | 0.3666 | 0.2 | 2.8236 | 5.5343 | 0.0843 | 112.5415 | 4.3102 | 3.8 | 610 | 78 | 9.3 | 0.0931 | " | 7 | 1.001954 | 0.000590 |
| -02D | 0.2450 | 0.4 | 3.0988 | 6.0736 | 0.0590 | 76.4877 | 4.2595 | 5.6 | 603 | 55 | 11.7 | 0.1180 | " | 9 | 1.002244 | 0.000639 |
| -02E | 0.1576 | 0.6 | 3.1668 | 6.2070 | 0.0429 | 51.0732 | 4.7108 | 9.2 | 667 | 36 | 17.4 | 0.1740 | " | 12 | 1.002308 | 0.000656 |
| -02F | 0.1286 | 0.7 | 2.9811 | 5.8430 | 0.0375 | 42.2250 | 4.4418 | 10.5 | 629 | 32 | 17.2 | 0.1730 | " | 15 | 1.002365 | 0.000674 |
| -02G | 0.1637 | 0.6 | 3.2342 | 6.3391 | 0.0448 | 52.3015 | 4.1475 | 7.9 | 587 | 38 | 18.4 | 0.1870 | " | 19 | 1.002374 | 0.000716 |
| -02H | 0.2235 | 0.7 | 5.9014 | 11.5667 | 0.0564 | 69.8846 | 4.2491 | 6.1 | 602 | 55 | 11.9 | 0.1220 | " | 25 | 1.002262 | 0.000684 |
| -02I | 0.2845 | 0.9 | 8.9847 | 17.6100 | 0.0712 | 87.8317 | 4.4155 | 5.0 | 625 | 79 | 7.1 | 0.0721 | " | 35 | 1.002197 | 0.000667 |
| | | | | | | | Plateau Age | 623 | 17 | 100.0 | | | | | | |

Big Lost flow - BG-77-1 - 427-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|-----------|--------|--------------------|---|-------------------------------|---------------|---------------------------|----------|
| Ca | | | | | | | | | | | | | | | |
| 21449-01A | 0.5591 | 0.0 | 0.9667 | 1.8948 | 0.1293 | 170.6613 | 4.2821 | 2.5 606.6 | 390.5 | 2.4 | 0.0083 | 7.85±0.04 | 3 | 0.999235 | 0.000215 |
| -01B | 0.5452 | 0.1 | 1.7418 | 3.4139 | 0.1307 | 168.2703 | 6.0938 | 3.6 863.2 | 307.2 | 6.4 | 0.0221 | " | 5 | 0.999242 | 0.000214 |
| -01C | 0.4057 | 0.2 | 2.3587 | 4.6231 | 0.0924 | 126.0054 | 5.4246 | 4.3 768.4 | 130.0 | 10.4 | 0.0362 | " | 7 | 0.999249 | 0.000213 |
| -01D | 0.2917 | 0.3 | 2.9578 | 5.7972 | 0.0611 | 89.9004 | 3.3131 | 469.4 | 161.0 | 11.8 | 0.0409 | " | 9 | 0.999263 | 0.000210 |
| -01E | 0.1794 | 0.4 | 2.7983 | 5.4847 | 0.0450 | 57.0894 | 3.9198 | 555.3 | 65.6 | 17.2 | 0.0597 | " | 12 | 0.999270 | 0.000209 |
| -01F | 0.1374 | 0.6 | 2.8451 | 5.5765 | 0.0398 | 45.0417 | 4.3720 | 619.4 | 63.7 | 17.0 | 0.0591 | " | 15 | 0.999277 | 0.000208 |
| -01G | 0.1934 | 0.4 | 2.8561 | 5.5979 | 0.0458 | 61.3032 | 3.9656 | 561.8 | 70.1 | 16.6 | 0.0579 | " | 19 | 0.999285 | 0.000207 |
| -01H | 0.2905 | 0.5 | 5.1228 | 10.0406 | 0.0681 | 89.2604 | 3.1957 | 452.7 | 145.7 | 12.3 | 0.0431 | " | 25 | 0.999299 | 0.000204 |
| -01I | 0.3665 | 0.8 | 10.7671 | 21.1035 | 0.0833 | 110.6628 | 2.4769 | 350.9 | 168.2 | 5.9 | 0.0208 | " | 35 | 0.999307 | 0.000203 |

Plateau
Age 557 35 81.0

Big Lost flow - BG-77-1 - 427-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | rad | | | | | | | | | | | |
| 21449-02A | 0.6692 | 0.1 | 2.7302 | 5.3512 | 0.1484 | 205.5586 | 6.5460 | 3.2 927 | 240 | 3.4 | 0.0193 | 7.85±0.04 | 3 | 1.002131 | 0.000651 |
| -02B | 0.5145 | 0.1 | 2.5367 | 4.9720 | 0.1157 | 155.0847 | 2.1101 | 1.4 299 | 124 | 10.3 | 0.0578 | " | 5 | 1.002058 | 0.000636 |
| -02C | 0.3518 | 0.2 | 2.6057 | 5.1072 | 0.0747 | 108.0685 | 3.5646 | 3.3 505 | 110 | 7.6 | 0.0435 | " | 7 | 1.000679 | 0.000635 |
| -02D | 0.2476 | 0.3 | 2.7016 | 5.3937 | 0.0592 | 74.9675 | 2.8244 | 3.8 400 | 76 | 9.7 | 0.0559 | " | 9 | 1.000679 | 0.000635 |
| -02E | 0.1611 | 0.5 | 2.9217 | 5.7266 | 0.0432 | 51.5410 | 3.8264 | 7.4 542 | 50 | 15.2 | 0.0877 | " | 12 | 1.000679 | 0.000635 |
| -02F | 0.1360 | 0.6 | 2.8108 | 5.5093 | 0.0385 | 44.6161 | 4.3793 | 9.8 620 | 72 | 15.8 | 0.0910 | " | 15 | 1.000679 | 0.000635 |
| -02G | 0.1954 | 0.4 | 3.1917 | 6.2557 | 0.0499 | 61.7875 | 3.8935 | 6.3 552 | 46 | 21.6 | 0.1250 | " | 21 | 1.000679 | 0.000635 |
| -02H | 0.2623 | 0.5 | 4.8885 | 9.5815 | 0.0624 | 81.5214 | 3.8623 | 4.7 547 | 88 | 9.2 | 0.0529 | " | 25 | 1.000679 | 0.000635 |
| -02I | 0.3242 | 0.8 | 9.7632 | 19.1359 | 0.0774 | 99.2976 | 3.6063 | 3.6 511 | 110 | 7.3 | 0.0421 | " | 35 | 1.000679 | 0.000635 |
| | | | | | | | | Plateau Age | 556 | 28 | 69.0 | | | | |

Big Lost flow - BG-77-1 - 473-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | rad | | | | | | | | | | | |
| 21453-01A | 0.6074 | 0.0 | 0.5560 | 1.0898 | 0.1390 | 189.3208 | 9.4353 | 5.0 1336 | 418 | 1.3 | 0.0069 | 7.85±0.02 | 3 | 0.999803 | 0.000161 |
| -01B | 0.3505 | 0.2 | 2.6213 | 5.1377 | 0.0852 | 110.4075 | 6.8071 | 6.2 964 | 193 | 3.0 | 0.0168 | " | 5 | 0.999941 | 0.000168 |
| -01C | 0.1401 | 0.6 | 2.9935 | 5.8673 | 0.0386 | 45.3223 | 4.0696 | 9.0 576 | 82 | 6.8 | 0.0373 | " | 7 | 0.999948 | 0.000168 |
| -01D | 0.0560 | 1.4 | 2.7878 | 5.4640 | 0.0218 | 20.6071 | 4.2445 | 20.6 601 | 41 | 11.6 | 0.0640 | " | 9 | 0.999956 | 0.000169 |
| -01E | 0.0336 | 2.0 | 2.4436 | 4.7894 | 0.0192 | 13.7396 | 3.9989 | 29.1 566 | 25 | 19.8 | 0.1100 | " | 12 | 0.999963 | 0.000169 |
| -01F | 0.0298 | 2.1 | 2.2597 | 4.4291 | 0.0183 | 12.2892 | 3.6627 | 29.8 519 | 23 | 19.8 | 0.1100 | " | 15 | 0.999978 | 0.000171 |
| -01G | 0.0490 | 1.3 | 2.2846 | 4.4778 | 0.0244 | 18.1794 | 3.8530 | 21.2 546 | 30 | 18.1 | 0.1000 | " | 19 | 0.999986 | 0.000172 |
| -01H | 0.1025 | 1.0 | 3.7958 | 7.4397 | 0.0350 | 34.0391 | 4.0005 | 11.7 567 | 43 | 13.3 | 0.0738 | " | 25 | 0.999993 | 0.000172 |
| -01I | 0.1636 | 1.1 | 6.6985 | 13.1291 | 0.0443 | 51.8804 | 3.9940 | 7.7 566 | 80 | 6.3 | 0.0353 | " | 35 | 0.999803 | 0.000161 |
| | | | | | | | | Plateau Age | 552 | 13 | 95.7 | | | | |

Big Lost flow - BG-77-1 - 473-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | rad | | | | | | | | | | | |
| 21453-02A | 0.5439 | 0.1 | 1.5382 | 3.0148 | 0.1257 | 174.4721 | 13.4882 | 7.7 1910 | 198 | 2.7 | 0.0273 | 7.85±0.02 | 3 | 1.000017 | 0.000175 |
| -02B | 0.4133 | 0.2 | 2.5527 | 5.0032 | 0.1010 | 129.2857 | 7.0658 | 5.5 1001 | 119 | 4.3 | 0.0436 | " | 5 | 1.000131 | 0.000189 |
| -02C | 0.1418 | 0.6 | 3.0723 | 6.0218 | 0.0393 | 46.2887 | 4.5592 | 9.8 646 | 48 | 8.2 | 0.0841 | " | 7 | 1.000139 | 0.000190 |
| -02D | 0.0549 | 1.3 | 2.6927 | 5.2777 | 0.0230 | 20.2135 | 4.1763 | 20.6 592 | 26 | 12.1 | 0.1250 | " | 9 | 1.000146 | 0.000191 |
| -02E | 0.0355 | 1.8 | 2.4009 | 4.7057 | 0.0186 | 14.2635 | 3.9576 | 27.7 561 | 17 | 19.8 | 0.2040 | " | 12 | 1.000154 | 0.000192 |
| -02F | 0.0363 | 1.7 | 2.2131 | 4.3376 | 0.0198 | 14.4384 | 3.8632 | 26.7 547 | 16 | 19.0 | 0.1950 | " | 15 | 1.000169 | 0.000195 |
| -02G | 0.0740 | 1.0 | 2.5886 | 5.0736 | 0.0270 | 25.5760 | 3.8879 | 15.2 551 | 22 | 20.8 | 0.2130 | " | 21 | 1.000176 | 0.000196 |
| -02H | 0.1300 | 0.9 | 4.4458 | 8.7138 | 0.0405 | 41.4645 | 3.3293 | 8.0 472 | 47 | 8.0 | 0.0824 | " | 25 | 1.000184 | 0.000197 |
| -02I | 0.2088 | 1.1 | 8.3200 | 16.3072 | 0.0553 | 64.2728 | 3.1243 | 4.8 443 | 75 | 5.1 | 0.0521 | " | 35 | 1.000207 | 0.000201 |
| | | | | | | | | Plateau Age | 556 | 9 | 93.0 | | | | |

Big Lost flow - BG-77-1 - 473-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | rad | | | | | | | | | | | |
| 21452-01A | 0.5225 | 0.1 | 1.1920 | 2.3364 | 0.1206 | 164.6820 | 9.3018 | 5.6 1317 | 260 | 3.5 | 0.0150 | 7.85±0.03 | 3 | 0.999705 | 0.000161 |
| -01B | 0.1522 | 0.7 | 3.9574 | 7.7565 | 0.0456 | 52.3749 | 7.4372 | 14.2 1053 | 145 | 4.6 | 0.0200 | " | 5 | 0.999720 | 0.000161 |
| -01C | 0.0594 | 1.9 | 3.9474 | 7.7369 | 0.0258 | 21.4434 | 4.1023 | 19.1 581 | 73 | 8.3 | 0.0360 | " | 7 | 0.999728 | 0.000161 |
| -01D | 0.0325 | 3.1 | 3.5306 | 6.9200 | 0.0195 | 13.2818 | 3.9132 | 29.4 554 | 50 | 12.1 | 0.0524 | " | 9 | 0.999735 | 0.000161 |
| -01E | 0.0309 | 2.8 | 3.1018 | 6.0795 | 0.0174 | 12.8787 | 3.9414 | 30.5 558 | 30 | 19.1 | 0.0829 | " | 12 | 0.999758 | 0.000161 |
| -01F | 0.0291 | 2.7 | 2.7887 | 5.4659 | 0.0185 | 12.3275 | 3.9032 | 31.6 553 | 32 | 18.0 | 0.0782 | " | 15 | 0.999766 | 0.000161 |
| -01G | 0.0520 | 1.5 | 2.7428 | 5.3759 | 0.0234 | 18.7638 | 3.5318 | 18.8 500 | 37 | 16.5 | 0.0715 | " | 19 | 0.999774 | 0.000161 |
| -01H | 0.1037 | 1.3 | 4.9372 | 9.6769 | 0.0339 | 33.4791 | 3.0318 | 9.0 429 | 92 | 11.9 | 0.0518 | " | 25 | 0.999781 | 0.000161 |
| -01I | 0.1532 | 1.7 | 9.0046 | 17.6491 | 0.0425 | 49.2934 | 4.4938 | 9.1 636 | 105 | 6.0 | 0.0260 | " | 35 | 0.999796 | 0.000161 |
| | | | | | | | | Plateau Age | 543 | 17 | 91.9 | | | | |

Big Lost flow - BG-77-1 - 473-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|--------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|---|-------------------------------|---------------|---------------------------|----------|
| Ca | | | | | | | | | | | | | | | |
| 21452-02A | 0.5436 | 0.1 | 1.0396 | 2.0377 | 0.1252 | 172.5703 | 10.8878 | 6.3 1541 | 194 | 2.9 | 0.0292 | 7.85±0.03 | 3 | 1.000024 | 0.000175 |
| -02B | 0.2097 | 0.4 | 3.1606 | 6.1948 | 0.0566 | 68.4828 | 6.3693 | 9.3 902 | | 92 4.6 | 0.0473 | " | 5 | 1.000032 | 0.000176 |
| -02C | 0.0705 | 1.4 | 3.5951 | 7.0464 | 0.0273 | 25.3515 | 4.6813 | | 663 | 38 8.3 | 0.0848 | " | 7 | 1.000039 | 0.000177 |
| -02D | 0.0337 | 2.7 | 3.1816 | 6.2360 | 0.0212 | 13.7658 | 4.0090 | 29.1 | 568 | 24 | 11.5 | 0.1170 | 9 | 1.000054 | 0.000179 |
| -02E | 0.0297 | 2.7 | 2.8440 | 5.5742 | 0.0179 | 12.4319 | 3.8254 | 30.7 | 542 | 16 | 18.6 | 0.1900 | 12 | 1.000062 | 0.000180 |
| -02F | 0.0308 | 2.4 | 2.6154 | 5.1262 | 0.0200 | 12.8286 | 3.8817 | 30.2 | 550 | 17 | 18.3 | 0.1870 | 15 | 1.000069 | 0.000181 |
| -02G | 0.0504 | 1.5 | 2.6702 | 5.2335 | 0.0246 | 18.5226 | 3.7662 | 20.3 | 533 | 19 | 17.2 | 0.1760 | 19 | 1.000093 | 0.000184 |
| -02H | 0.0962 | 1.2 | 4.2396 | 8.3097 | 0.0317 | 32.1873 | 3.9352 | 12.2 | 557 | 32 | 11.9 | 0.1220 | 25 | 1.000100 | 0.000185 |
| -02I | 0.1439 | 1.4 | 7.3043 | 14.3164 | 0.0425 | 45.6562 | 3.4662 | 7.6 | 491 | 50 | 6.8 | 0.0701 | 35 | 1.000108 | 0.000186 |
| | | | | | | | Plateau Age | 545 | | 9 | 84.2 | | | | |

Big Lost flow - BG-77-1 - 473-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|---|-------------------------------|---------------|---------------------------|----------|
| Ca | | | | | | | | | | | | | | | |
| 21451-01A | 0.4466 | 0.1 | 1.6953 | 3.3228 | 0.1125 | 143.6721 | 10.6987 | 7.4 1515 | 377 | 3.8 | 0.0096 | 7.85±0.03 | 3 | 0.999505 | 0.000175 |
| -01B | 0.1497 | 0.8 | 4.3417 | 8.5098 | 0.0503 | 49.3940 | 5.1519 | 10.4 | 730 | 213 | 5.9 | 0.0147 | 5 | 0.999513 | 0.000174 |
| -01C | 0.0556 | 2.2 | 4.3396 | 8.5056 | 0.0232 | 20.0442 | 3.8363 | 19.1 | 543 | 116 | 9.7 | 0.0243 | 7 | 0.999520 | 0.000174 |
| -01D | 0.0331 | 3.2 | 3.7169 | 7.2851 | 0.0204 | 13.6397 | 4.0898 | 29.9 | 579 | 80 | 12.8 | 0.0320 | 9 | 0.999535 | 0.000172 |
| -01E | 0.0294 | 3.2 | 3.3584 | 6.5824 | 0.0148 | 12.5946 | 4.1092 | 32.6 | 582 | 55 | 19.5 | 0.0488 | 12 | 0.999542 | 0.000171 |
| -01F | 0.0339 | 2.6 | 3.1714 | 6.2159 | 0.0207 | 13.5742 | 3.7525 | 27.6 | 531 | 61 | 17.6 | 0.0440 | 15 | 0.999550 | 0.000171 |
| -01G | 0.0667 | 1.3 | 2.9867 | 5.8538 | 0.0281 | 24.5479 | 4.9251 | 20.0 | 698 | 78 | 15.4 | 0.0386 | 19 | 0.999573 | 0.000169 |
| -01H | 0.1355 | 1.2 | 5.8003 | 11.3687 | 0.0402 | 44.3627 | 4.4867 | 10.1 | 635 | 110 | 10.9 | 0.0274 | 25 | 0.999581 | 0.000168 |
| -01I | 0.3303 | 1.3 | 14.9571 | 29.3158 | 0.0805 | 99.2545 | 2.0693 | 2.1 | 293 | 279 | 4.4 | 0.0111 | 35 | 0.999698 | 0.000162 |
| | | | | | | | Plateau Age | 587 | 30 | 96.2 | | | | | |

Big Lost flow - BG-77-1 - 473-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|---|-------------------------------|---------------|---------------------------|----------|
| Ca | | | | | | | | | | | | | | | |
| 21451-02A | 0.5015 | 0.1 | 2.6668 | 5.2268 | 0.1201 | 155.8682 | 6.6027 | 4.2 935 | 189 | 1.0 | 0.0229 | 7.85±0.03 | 3 | 1.000222 | 0.000203 |
| -02B | 0.1571 | 0.8 | 4.2288 | 8.2885 | 0.0420 | 51.0952 | 4.6262 | 9.0 | 655 | 91 | 1.7 | 0.0387 | 5 | 1.000230 | 0.000204 |
| -02C | 0.0614 | 1.9 | 4.1186 | 8.0725 | 0.0231 | 21.7903 | 3.8420 | 17.6 | 544 | 45 | 2.9 | 0.0663 | 7 | 1.000245 | 0.000207 |
| -02D | 0.0345 | 2.9 | 3.5985 | 7.0531 | 0.0194 | 14.0997 | 4.1148 | 29.1 | 583 | 30 | 3.9 | 0.0883 | 9 | 1.000252 | 0.000208 |
| -02E | 0.0379 | 2.2 | 2.9753 | 5.8316 | 0.0198 | 14.8760 | 3.8358 | 25.7 | 543 | 18 | 9.0 | 0.0204 | 15 | 1.000260 | 0.000210 |
| -02F | 0.1293 | 0.1 | 0.6498 | 1.2737 | 0.0334 | 42.7094 | 4.2239 | 9.9 | 598 | 92 | 10.4 | 0.2359 | 15 | 1.000583 | 0.000274 |
| -02G | 0.1649 | 0.1 | 0.3043 | 0.5560 | 0.0402 | 53.7395 | 4.2848 | 8.0 | 607 | 76 | 68.1 | 1.5502 | 21 | 1.000591 | 0.000276 |
| -02H | 0.1446 | 1.4 | 7.1153 | 13.9459 | 0.0384 | 46.7043 | 4.2305 | 9.0 | 599 | 87 | 1.9 | 0.0429 | 25 | 1.001384 | 0.000655 |
| -02I | 0.2270 | 1.6 | 13.2230 | 25.9171 | 0.0546 | 67.6474 | 1.1123 | 1.6 158 | 136 | 1.2 | 0.0265 | " | 35 | 1.001489 | 0.000628 |
| | | | | | | | Plateau Age | 559 | 14 | 97.8 | | | | | |

Big Lost flow - BG-77-1 - 534-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|---|-------------------------------|---------------|---------------------------|----------|
| Ca | | | | | | | | | | | | | | | |
| 21503-01A | 1.2272 | 0.0 | 0.8986 | 1.7618 | 0.2467 | 362.4524 | -3.9330 | -1.1 | -570 | 122 | 13.0 | 0.0698 | 3 | 0.999617 | 0.000194 |
| -01B | 0.7942 | 0.1 | 2.0570 | 4.0369 | 0.1624 | 236.7694 | -0.2209 | -0.1 | -32 | 84 | 17.8 | 0.0967 | 5 | 0.999617 | 0.000194 |
| -01C | 0.5634 | 0.1 | 2.8136 | 5.5250 | 0.1211 | 171.6207 | 3.6213 | 2.1 | 525 | 71 | 19.8 | 0.1080 | 7 | 0.999617 | 0.000194 |
| -01D | 0.4517 | 0.2 | 3.3486 | 6.5783 | 0.0999 | 138.0250 | 3.4365 | 2.5 | 498 | 75 | 15.5 | 0.0846 | 9 | 0.999617 | 0.000194 |
| -01E | 0.4936 | 0.2 | 4.1154 | 8.0892 | 0.1114 | 151.0015 | 3.9706 | 2.6 | 576 | 82 | 14.1 | 0.0770 | 12 | 0.999617 | 0.000194 |
| -01F | 0.9085 | 0.2 | 6.7220 | 13.2376 | 0.1829 | 274.7002 | 3.9956 | 1.4 | 579 | 109 | 12.1 | 0.0660 | 17 | 0.999617 | 0.000194 |
| -01G | 1.8151 | 0.2 | 12.6136 | 24.9453 | 0.3601 | 543.4940 | 2.5640 | 0.5 | 372 | 227 | 6.0 | 0.0332 | 25 | 0.999617 | 0.000194 |
| -01H | 1.9280 | 0.2 | 14.0601 | 27.8349 | 0.3854 | 569.4785 | -5.1259 | -0.9 | -743 | 528 | 1.6 | 0.0087 | 35 | 0.999617 | 0.000194 |
| | | | | | | | Plateau Age | 564 | 40 | 67.6 | | | | | |

Big Lost flow - BG-77-1 - 534-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar % ³⁶ Ar | | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|---|-----|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21504-01A | 1.0910 | 0.0 | 1.3256 | 2.5999 | 0.2182 | 319.1926 | -6.4958 | -2.0 | -939 | 100 | 13.2 | 0.1257 | 8.01±0.04 | 3 | 0.999617 | 0.000194 |
| -01B | 0.7362 | 0.1 | 1.9946 | 3.9142 | 0.1522 | 219.4359 | -0.2429 | -0.1 | -35 | 61 | 21.2 | 0.2020 | " | 5 | 0.999617 | 0.000194 |
| -01C | 0.5347 | 0.1 | 2.1307 | 4.1818 | 0.1158 | 161.1493 | 1.6676 | | 1.0 241 | 62 | 19.0 | 0.1817 | " | 7 | 0.999617 | 0.000194 |
| -01D | 0.3882 | 0.2 | 2.9807 | 5.8540 | 0.0873 | 119.7649 | 4.0929 | 3.4 | 592 | 54 | 16.7 | 0.1594 | " | 9 | 0.999617 | 0.000194 |
| -01E | 0.3475 | 0.2 | 2.9720 | 5.8368 | 0.0798 | 107.1868 | 3.6865 | 3.4 | 533 | 50 | 14.2 | 0.1355 | " | 12 | 0.999617 | 0.000194 |
| -01F | 0.5540 | 0.4 | 7.2951 | 14.3723 | 0.1173 | 168.7699 | 3.9813 | 2.3 | 576 | 82 | 10.5 | 0.1005 | " | 17 | 0.999617 | 0.000194 |
| -01G | 1.0235 | 0.4 | 14.7015 | 29.1181 | 0.2069 | 308.4727 | 4.1342 | 1.3 | 598 | 172 | 4.1 | 0.0391 | " | 25 | 0.999617 | 0.000194 |
| -01H | 0.9703 | 0.6 | 20.3392 | 40.4483 | 0.1900 | 287.7775 | -0.2473 | -0.1 | -36 | 440 | 1.1 | 0.0104 | " | 35 | 0.999617 | 0.000194 |
| | | | | | | | | Plateau Age | 564 | 33 | 46.6 | | | | | |

Big Lost flow - BG-77-1 - 534-ft depth (whole rock - Frantz less magnetic)

[illegible]

CFA Buried Vent flow - USGS 128 - 596-ft depth (whole rock - hand magnet)

| Ca | | | | | | | | | | | | | | | |
|-----------------------|-----------|-------|-----------|---------|-----------|-----------|------------|-------------|----------|---------|-------|-----------------------------------|--------------------------------|---------------|-------------------|
| 40Ar ± 1 sem discrim. | | | | | | | | | | | | | | | |
| Run ID | 36Ar/39Ar | %36Ar | 37Ar/39Ar | Ca/K | 38Ar/39Ar | 40Ar/39Ar | 40Ar*/39Ar | %40Ar | Age (ka) | ± 1 sem | %39Ar | 39Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | |
| 21513-01A | 0.9738 | 0.0 | 1.4354 | 2.8133 | 0.1972 | 285.9728 | 4.2936 | 1.5 | 641 | 97 | 16.9 | 0.1433 | 8.28±0.03 | 3 | 0.999045 0.000279 |
| -01B | 0.7549 | 0.1 | 3.6401 | 7.1345 | 0.1562 | 223.3383 | 5.1933 | 2.3 | 775 | 67 | 27.9 | 0.2365 | " | 5 | 0.999045 0.000279 |
| -01C | 0.5749 | 0.2 | 4.0380 | 7.9145 | 0.1230 | 172.5656 | 6.5560 | 3.8 | 979 | 61 | 21.4 | 0.1811 | " | 7 | 0.999045 0.000279 |
| -01D | 0.4315 | 0.3 | 4.4019 | 8.6277 | 0.0950 | 130.8976 | 6.4179 | 4.9 | 958 | 63 | 14.5 | 0.1229 | " | 9 | 0.999045 0.000279 |
| -01E | 0.3467 | 0.5 | 6.3306 | 12.4080 | 0.0781 | 106.3769 | 6.5973 | 6.2 | 985 | 68 | 9.8 | 0.0834 | " | 12 | 0.999045 0.000279 |
| -01F | 0.3978 | 1.1 | 15.6180 | 30.6112 | 0.0912 | 122.4834 | 8.7312 | 7.0 | 1303 | 100 | 6.1 | 0.0515 | " | 17 | 0.999045 0.000279 |
| -01G | 0.6739 | 1.2 | 29.5415 | 57.9013 | 0.1444 | 207.9091 | 15.6208 | 7.4 | 2331 | 200 | 2.7 | 0.0233 | " | 25 | 0.999045 0.000279 |
| -01H | 0.5307 | 1.9 | 37.9776 | 74.4361 | 0.1046 | 169.0566 | 19.0731 | 11.0 | 2845 | 502 | 0.7 | 0.0062 | " | 35 | 0.999045 0.000279 |
| | | | | | | | | Plateau Age | 1213 | 30 | 90.5 | | | | |

CFA Buried Vent flow - USGS 128 - 596-ft depth (whole rock - Frantz more magnetic)

| Run ID | 36Ar/39Ar | %36Ar | 37Ar/39Ar | Ca/K | 38Ar/39Ar | 40Ar/39Ar | 40Ar*/39Ar | %40Ar | Age (ka) | ± 1 sem | %39Ar | 39Ar moles (x 10-14) | J (x10-5) ± 1 sem | Laser (watts) | 40Ar discrim. | ± 1 sem |
|-----------|-----------|-------|-----------|---------|-----------------------|-----------|------------|-------------|----------|---------|---------|-------------------------|----------------------|------------------|------------------|----------|
| Ca | | | | | | | | | | | | | | | | |
| 21512-01A | 0.9402 | 0.0 | 1.5387 | 3.0158 | 0.1927 ^{rad} | 275.4192 | 2.4607 | | 0.9 366 | | 83 23.8 | 0.1772 | 8.24±0.03 | 3 | 0.999045 | 0.000279 |
| -01B | 0.6893 | 0.1 | 2.6428 | 5.1799 | 0.1438 | 203.7285 | 3.7456 | | 1.8 557 | | 59 31.3 | 0.2334 | " | 5 | 0.999045 | 0.000279 |
| -01C | 0.4725 | 0.2 | 3.2309 | 6.3326 | 0.1022 | 143.1633 | 6.1924 | 4.3 | 921 | 69 | 21.0 | 0.1568 | " | 7 | 0.999045 | 0.000279 |
| -01D | 0.3387 | 0.6 | 6.8964 | 13.5169 | 0.0780 | 104.2381 | 6.4464 | 6.2 | 958 | 68 | 10.9 | 0.0811 | " | 9 | 0.999045 | 0.000279 |
| -01E | 0.3064 | 0.9 | 10.1131 | 19.8216 | 0.0725 | 94.7918 | 6.6834 | 7.0 | 994 | 93 | 6.7 | 0.0497 | " | 12 | 0.999045 | 0.000279 |
| -01F | 0.4260 | 1.4 | 21.8082 | 42.7441 | 0.0953 | 127.5814 | 5.7271 | 4.4 | 851 | 153 | 4.0 | 0.0301 | " | 17 | 0.999045 | 0.000279 |
| -01G | 0.5753 | 1.9 | 37.9400 | 74.3625 | 0.1275 | 172.9177 | 9.1655 | 5.2 | 1362 | 270 | 1.7 | 0.0128 | " | 25 | 0.999045 | 0.000279 |
| -01H | 0.4719 | 2.1 | 35.5105 | 69.6005 | 0.0765 | 141.0295 | 7.0294 | 4.9 | 1045 | 598 | 0.6 | 0.0043 | " | 35 | 0.999045 | 0.000279 |
| | | | | | | | | Plateau Age | 693 | 41 | 44.9 | | | | | |

CFA Buried Vent flow - USGS 128 - 596-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ± 1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ± 1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ± 1 sem | |
|-----------|------------------------------------|--------------------|------------------------------------|----------|------------------------------------|------------------------------------|-------------------------------------|--------------------|-------------|---------|--------------------|--|-----------------------------------|------------------|------------------------------|----------|----------|
| Ca | | | | | | | | | | | | | | | | | |
| 21518-01A | 1.0636 | 0.1 | 4.5671 | 8.9516 | ^{rad} 0.2235 | 315.7478 | -1.7880 | -0.6 | -266 | 136 | 20.4 | 0.0678 | 8.26±0.02 | 3 | 0.999045 | 0.000279 | |
| -01B | 0.7636 | 0.2 | 6.3696 | 12.4845 | 0.1571 | 227.3464 | -0.3514 | -0.2 | -52 | | 98 | 27.7 | 0.0918 | " | 5 | 0.999045 | 0.000279 |
| -01C | 0.5538 | 0.3 | 5.5130 | 10.8054 | 0.1185 | 168.8268 | 3.7608 | 2.2 | 560 | 100 | 19.2 | 0.0638 | " | 7 | 0.999045 | 0.000279 | |
| -01D | 0.4225 | 0.5 | 6.8724 | 13.4699 | 0.0869 | 129.9320 | 4.2569 | 3.3 | 634 | 119 | 12.9 | 0.0428 | " | 9 | 0.999045 | 0.000279 | |
| -01E | 0.3691 | 1.0 | 13.3933 | 26.2508 | 0.0843 | 112.2600 | 3.0795 | 2.7 | 459 | 135 | 9.2 | 0.0304 | " | 12 | 0.999045 | 0.000279 | |
| -01F | 0.5381 | 1.4 | 25.9226 | 50.8082 | 0.1146 | 160.7703 | 2.1439 | 1.3 | 319 | 209 | 6.0 | 0.0198 | " | 17 | 0.999045 | 0.000279 | |
| -01G | 0.7663 | 2.4 | 66.3434 | 130.0330 | 0.1554 | 234.6955 | 11.7774 | | 4.8 | 1754 | 347 | 3.5 | 0.0115 | " | 25 | 0.999045 | 0.000279 |
| -01H | 0.6440 | 2.2 | 50.5793 | 99.1354 | 0.1530 | 225.8641 | 39.0293 | 16.7 | 5805 | 800 | 1.2 | 0.0040 | " | 35 | 0.999045 | 0.000279 | |
| | | | | | | | | | Plateau Age | 536 | 63 | 47.2 | | | | | |

State Butte flow - NRF 016 - 187-ft depth (whole rock - hand magnet)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21464-02A | 0.2796 | 0.5 | 4.9822 | 9.7652 | 0.0674 | 85.7935 | 3.8653 | 4.5 | 549 | 67 | 9.7 | 0.0747 | 7.88±0.05 | 5 | 1.001464 | 0.000167 |
| -02B | 0.1076 | 1.1 | 4.1274 | 8.0897 | 0.0329 | 35.2906 | 3.9454 | 11.1 | 561 | 35 | 15.0 | 0.1151 | " | 7 | 1.001464 | 0.000167 |
| -02C | 0.0714 | 1.3 | 3.2317 | 6.3341 | 0.0268 | 25.4305 | 4.6807 | 18.4 | 665 | 27 | 16.8 | 0.1289 | " | 9 | 1.001464 | 0.000167 |
| -02D | 0.0795 | 1.0 | 2.9371 | 5.7566 | 0.0276 | 27.7772 | 4.6152 | 16.6 | 656 | 23 | 20.4 | 0.1564 | " | 12 | 1.001464 | 0.000167 |
| -02E | 0.1212 | 1.0 | 4.3034 | 8.4346 | 0.0351 | 39.7190 | 4.3945 | 11.0 | 624 | 34 | 15.0 | 0.1153 | " | 15 | 1.001464 | 0.000167 |
| -02F | 0.2309 | 0.3 | 2.1900 | 4.2925 | 0.0582 | 72.5878 | 4.7573 | 6.5 | 676 | 44 | 16.7 | 0.1277 | " | 21 | 1.001464 | 0.000167 |
| -02G | 0.2517 | 1.4 | 12.5371 | 24.5727 | 0.0617 | 77.5267 | 4.4625 | | 5.7 634 | 57 | 4.1 | 0.0317 | " | 25 | 1.001464 | 0.000167 |
| -02H | 0.3202 | 1.3 | 14.4296 | 28.2820 | 0.0819 | 98.1223 | 5.0327 | | 5.1 715 | 173 | 2.2 | 0.0168 | " | 35 | 1.001464 | 0.000167 |
| | | | | | | | | Plateau Age | 654 | 15 | 75.2 | | | | | |

State Butte flow - NRF 016 - 187-ft depth (whole rock - Frantz more magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x 10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|--|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21465-01A | 0.5915 | 0.3 | 6.2665 | 12.2824 | 0.1281 | 179.5772 | 5.3656 | | 3.0 762 | 208 | 4.7 | 0.0198 | 7.87±0.03 | 3 | 1.001464 | 0.000167 |
| -01B | 0.1563 | 1.4 | 7.7752 | 15.2393 | 0.0423 | 49.2752 | 3.7726 | | 7.6 536 | | 66 12.4 | 0.0521 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.0723 | 2.3 | 6.0216 | 11.8023 | 0.0286 | 25.7068 | 4.8797 | 18.9 | 693 | | 39 16.6 | 0.0696 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.0648 | 2.1 | 4.8393 | 9.4849 | 0.0277 | 22.7969 | 4.0763 | 17.8 | 579 | 36 | 17.1 | 0.0720 | " | 9 | 1.001464 | 0.000167 |
| -01E | 0.0796 | 1.5 | 4.2378 | 8.3060 | 0.0297 | 27.4105 | 4.2557 | 15.5 | 604 | 36 | 19.1 | 0.0804 | " | 12 | 1.001464 | 0.000167 |
| -01F | 0.1198 | 1.3 | 5.5555 | 10.8888 | 0.0358 | 39.3828 | 4.4808 | 11.3 | 636 | 49 | 13.3 | 0.0559 | " | 15 | 1.001464 | 0.000167 |
| -01G | 0.1979 | 2.0 | 13.7678 | 26.9849 | 0.0543 | 61.4895 | 4.2187 | 6.8 | 599 | 73 | 11.2 | 0.0469 | " | 21 | 1.001464 | 0.000167 |
| -01H | 0.2081 | 2.2 | 16.2284 | 31.8076 | 0.0499 | 64.1194 | 4.0355 | 6.2 | 573 | 167 | 3.2 | 0.0136 | " | 25 | 1.001464 | 0.000167 |
| -01I | 0.2364 | 2.4 | 20.6008 | 40.3776 | 0.0665 | 70.5472 | 2.4433 | 3.4 | 347 | 218 | 2.3 | 0.0097 | " | 35 | 1.001464 | 0.000167 |
| | | | | | | | | Plateau Age | 588 | 21 | 66.3 | | | | | |

State Butte flow - NRF 016 - 187-ft depth (whole rock - Frantz less magnetic)

| Run ID | ³⁶ Ar/ ³⁹ Ar | % ³⁶ Ar | ³⁷ Ar/ ³⁹ Ar | Ca/K | ³⁸ Ar/ ³⁹ Ar | ⁴⁰ Ar/ ³⁹ Ar | ⁴⁰ Ar*/ ³⁹ Ar | % ⁴⁰ Ar | Age (ka) | ±1 sem | % ³⁹ Ar | ³⁹ Ar moles (x10 ⁻¹⁴) | J (x10 ⁻⁵) ±1 sem | Laser (watts) | ⁴⁰ Ar discrim. | ±1 sem |
|-----------|------------------------------------|--------------------|------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|--------------------|----------|--------|--------------------|---|----------------------------------|------------------|------------------------------|----------|
| Ca | | | | | rad | | | | | | | | | | | |
| 21479-01A | 0.6607 | 0.2 | 5.0205 | 9.8402 | 0.1472 | 205.9604 | 8.0052 | 3.9 | 1152 | 179 | 4.1 | 0.0251 | 7.98±0.02 | 3 | 1.001464 | 0.000167 |
| -01B | 0.2521 | 0.9 | 8.1415 | 15.9573 | 0.0598 | 79.5898 | 4.5918 | 5.7 | 661 | 76 | 8.7 | 0.0531 | " | 5 | 1.001464 | 0.000167 |
| -01C | 0.1184 | 1.7 | 7.1139 | 13.9433 | 0.0343 | 38.8291 | 3.8842 | 10.0 | 559 | 46 | 13.2 | 0.0806 | " | 7 | 1.001464 | 0.000167 |
| -01D | 0.0797 | 2.2 | 6.1042 | 11.9642 | 0.0279 | 27.7522 | 4.3585 | 15.6 | 627 | 36 | 14.7 | 0.0899 | " | 9 | 1.001464 | 0.000167 |
| -01E | 0.0812 | 1.8 | 5.2963 | 10.3808 | 0.0288 | 28.0658 | 4.1424 | 14.7 | 596 | 31 | 18.9 | 0.1157 | " | 12 | 1.001464 | 0.000167 |
| -01F | 0.0974 | 1.7 | 5.7691 | 11.3075 | 0.0322 | 32.7750 | 4.0354 | 12.3 | 581 | 38 | 15.2 | 0.0932 | " | 15 | 1.001464 | 0.000167 |
| -01G | 0.1460 | 2.0 | 10.3371 | 20.2606 | 0.0400 | 46.5509 | 3.6057 | 7.7 | 519 | 45 | 15.4 | 0.0946 | " | 21 | 1.001464 | 0.000167 |
| -01H | 0.1512 | 2.2 | 11.8090 | 23.1457 | 0.0414 | 48.9992 | 4.6364 | 9.4 | 667 | 81 | 5.7 | 0.0349 | " | 25 | 1.001464 | 0.000167 |
| -01I | 0.2003 | 2.4 | 17.0950 | 33.5062 | 0.0546 | 63.8226 | 5.1851 | 8.0 | 746 | 109 | 4.2 | 0.0260 | " | 35 | 1.001464 | 0.000167 |
| | | | | | | | | Plateau Age | 594 | 16 | 95.9 | | | | | |