

EXP#23F01696 > BHM095 > POLENZ (22-26)
SOUTHERN CALIFORNIA > SE1/4 SEC. 24
22-OSU-05 (5C28-22) > Incremental Heating > Plagioclase > Dan Miggins

| Information on Analysis and Constants Used in Calculations |
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| Project = POLENZ (22-26) Sample = BHM095 Material = Plagioclase Location = SE1/4 sec. 24 Region = Southern California Analyst = Dan Miggins Irradiation = 22-OSU-05 (5C28-22) Position = X: 999 Y: 999 Z/H: 43.45856 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 9.67796 ± 0.00939 FCT-NM J-value = 0.00160421 ± 0.00000156 Air Shot 40Ar/36Ar = 303.8310 ± 0.3616 Air Shot MDF = 0.99565728 ± 0.00038875 (LIN) Experiment Type = Incremental Heating Extraction Method = Bulk Laser Heating Heating = 50 sec Isolation = 6.00 min Instrument = ARGUS-VI-F Preferred Age = Plateau Age Age Classification = Eruption Age IGSN = 13.172 Rock Class = Undefined Lithology = Undefined Lat-Lon = Undefined - Undefined Age Equations = Min et al. (2000) Negative Intensities = Allowed Collector Calibrations = 36Ar Decay 40K(total) = 5.463 ± 0.107 E-10 1/a Decay 40K(EC,β ⁺) = 0.580 ± 0.014 E-10 1/a Decay 40K(β ⁻) = 4.884 ± 0.099 E-10 1/a Decay 39Ar = 2.940 ± 0.016 E-07 1/h Decay 37Ar = 8.230 ± 0.012 E-04 1/h Decay 36Cl = 2.257 ± 0.015 E-06 1/a Production 39/37(ca) = 0.0006425 ± 0.0000059 Production 38/37(ca) = 0.0001800 ± 0.0000173 Production 36/37(ca) = 0.0002703 ± 0.0000005 Production 40/39(k) = 0.000607 ± 0.000059 Production 38/39(k) = 0.012077 ± 0.000011 Production 36/38(cl) = 262.80 ± 1.71 Scaling Ratio K/Ca = 0.430 Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04 Atomic Weight K = 39.0983 ± 0.0001 g Trapped 40/36(a) = 350.18 ± 10.65 Trapped 38/36(a) = 0.1885 ± 0.0003 Standard MDF 40/36(a) = 298.56 ± 0.31 Standard MDF Reference = Lee et al 2006 |

Excess 40/36 = 350.18 ± 3.04 (%SD).

| Results | 40(a)/36(a) ± 2σ | 40(r)/39(k) ± 2σ | Age ± 2σ (Ma) | MSWD | 39Ar(k) (%,n) | K/Ca ± 2σ |
|---------------------------------|---------------------------|-------------------------------|---|----------------|--|-----------------|
| Age Plateau | | 14.64475 ± 0.02558 ± 0.17% | 42.51 ± 0.11 ± 0.26% | 1.19 24% | 93.58 25 | 0.0105 ± 0.0006 |
| | | | Full External Error ± 2.20 Analytical Error ± 0.07 | 1.58 1.0908 | 2σ Confidence Limit Error Magnification | |
| Total Fusion Age | | 14.54856 ± 0.03016 ± 0.21% | 42.23 ± 0.12 ± 0.28% | | 33 | 0.0098 ± 0.0000 |
| | | | Full External Error ± 2.19 Analytical Error ± 0.09 | | | |
| Normal Isochron Error Chron | 351.67 ± 21.10 ± 6.00% | 14.62691 ± 0.06923 ± 0.47% | 42.46 ± 0.21 ± 0.51% | 2.07 0% | 93.58 25 | |
| | | | Full External Error ± 2.20 Analytical Error ± 0.20 | 1.59 1.4395 | 2σ Confidence Limit Error Magnification | |
| Inverse Isochron Error Chron | 350.18 ± 21.31 ± 6.08% | 14.63923 ± 0.06955 ± 0.48% | 42.49 ± 0.22 ± 0.51% | 2.08 0% | 93.58 25 | |
| | | | Full External Error ± 2.21 Analytical Error ± 0.20 | 1.59 1.4422 | 2σ Confidence Limit Error Magnification Spreading Factor | |

