

OSU Argon Geochronology Lab
CEOAS Oregon State University, Corvallis, USA

EXP#14D11006 > CB-6 > Sanidine > DE SILVA (12-19B)
ARGENTINA > CAMPO PIEDRA POMEZ
14-OSU-01 > Incremental Heating > Dan Miggins

Information on Analysis and Constants Used in Calculations	Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ka)	MSWD	39Ar(k) (% <i>n</i>)	K/Ca ± 2σ
Project = DE SILVA (12-19B) Sample = CB-6 Material = Sanidine Location = Campo Piedra Pomez Region = Argentina Analyst = Dan Miggins Irradiation = 14-OSU-01 Position = X: 0 Y: 0 Z/H: 10.1 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 8.74036 ± 0.00961 FCT-NM J-value = 0.00179825 ± 0.00000198 Air Shot 40Ar/36Ar = 302.1650 ± 0.3082 Air Shot MDF = 0.99447850 ± 0.00063163 (LIN) Experiment Type = Incremental Heating Extraction Method = Single Crystal Laser Heating Heating = 64 sec Isolation = 1.50 min Instrument = ARGUS-VI-D Preferred Age = Ideogram Age Age Classification = Eruption Age IGSN = Undefined Rock Class = Undefined Lithology = Undefined Lat-Lon = Undefined - Undefined Age Equations = Min et al. (2000) Negative Intensities = Allowed Collector Calibrations = 40Ar 36Ar Decay 40K = 5.530 ± 0.048 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 Decay 40K(EC,β ⁺) = 0.580 ± 0.009 E-10 1/a Decay 40K(β ⁻) = 4.950 ± 0.043 E-10 1/a Atmospheric 40/36(a) = 295.50 Atmospheric 38/36(a) = 0.1869 Production 39/37(ca) = 0.0006756 ± 0.0000089 Production 38/37(ca) = 0.0000718 ± 0.0000092 Production 36/37(ca) = 0.0002663 ± 0.0000004 Production 40/39(k) = 0.003823 ± 0.000102 Production 38/39(k) = 0.012031 ± 0.000019 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	Age Plateau Error Mean		0.01757 ± 0.00069 ± 3.91%	57.1 ± 2.2 ± 3.91% Full External Error ± 2.6 Analytical Error ± 2.2	15.94 0% 1.58 3.9919	100.00 25 2σ Confidence Limit Error Magnification	50.1 ± 1.8
	Total Fusion Age		0.01973 ± 0.00038 ± 1.92%	64.1 ± 1.2 ± 1.93% Full External Error ± 1.9 Analytical Error ± 1.2		25	51.2 ± 0.4
	Normal Isochron Error Chron	299.58 ± 1.35 ± 0.45%	0.01657 ± 0.00053 ± 3.21%	53.9 ± 1.7 ± 3.22% Full External Error ± 2.1 Analytical Error ± 1.7	6.24 0% 1.59 2.4984	100.00 25 2σ Confidence Limit Error Magnification	
	Inverse Isochron Error Chron	299.60 ± 1.38 ± 0.46%	0.01660 ± 0.00055 ± 3.30%	54.0 ± 1.8 ± 3.31% Full External Error ± 2.2 Analytical Error ± 1.8	6.44 0% 1.59 2.5377	100.00 25 2σ Confidence Limit Error Magnification Spreading Factor	

