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Title of article Cenozoic stratigraphy and geologic history of south-western Arizona

Author(s) Eberly and Stanley

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TABLE 2. ANALYTICAL DATA FOR K-Ar AGES DETERMINED FOR THIS REPORT

Sample Locality	K%	Radiogenic Argon - 40 in 10-12 moles/gm	Percent Atmospheric Argon	Apparent Age m.y.
1	1.18	50	91	23 \pm 5.2
4	3.08	915	21	160 \pm 8.0
5 (2,792m-2,807m)	7.64	237	57	17 \pm 1.0
(3,101m-3,102m)	3.38	152	48	25 \pm 1.4
11 (1,057m-1,072m)	6.85	361	72	29 \pm 2.4
24 (2,420m-2,426m)	2.62	109.39	20.8	23.4 \pm 0.6
(2,895m-2,898m)	2.64	76.03	42.7	16.1 \pm 0.6
(2,972m-3,002m)	2.44	79	82	18.0 \pm 2.0
(3,753m)	2.90	242.9	24.0	46.6 \pm 0.6*
58 (380m- 382m)	.73	26	84	20 \pm 2.6
59 (469m- 487m)	.49	9	98	10.5 \pm 4.5
60 (288m- 325m)	1.02	42	94	23 \pm 7.7
(586m- 610m)	1.19	110	58	51 \pm 3.3
61 (222m- 271m)	.85	33	74	22 \pm 1.9
(466m- 472m)	4.02	missing	90	44 \pm 5
62 (1,430m-1,442m)	6.60	263	37	22 \pm 1.2
63	1.82	67	57	20 \pm 1.3
64	.35	10	84	15 \pm 2.1
84	.45	170	86	22
85	.43	16	88	21 \pm 3.6
86	1.50	36	86	13 \pm 2.1
87	1.90	164	46	48 \pm 2.8
89	1.40	52	87	20 \pm 3.1
90	7.51	281	41	21 \pm 1.2
91	6.51	279	59	24 \pm 1.6
94	3.52	4,400	31	69
96 (1,050m-1,062m)	2.45	320	89	72 \pm 13.2
97	.58	6	94	6 \pm 1.8
98	7.01	16,171	1	984 \pm 39.0
99	4.80	233	85	27 \pm 3.8
100	.72	23	95	18 \pm 7.2
101	8.06	337	63	23 \pm 1.6
102	1.18	60	86	28 \pm 4.2
103 (229m- 238m)	2.43	88.8	17.5	20.5 \pm 1.0
(771m- 777m)	3.69	1,121.8	6.3	163.7 \pm 4.0
(779m-)	3.88	147.9	8.4	21.3 \pm 0.9
104	7.53	242.32	83.1	18.5 \pm 1.5

* K-Ar age corrected from 46.6 ± 0.6 m.y. to 61 m.y. for 30% Argon - 40 loss in K-feldspar due to elevated borehole temperatures.

TABLE 2. (Continued)

Sample Locality	K%	Radiogenic Argon - 40 in 10-12 moles/gm	Percent Atmospheric Argon	Apparent Age m.y.
105	1.92	100.67 \pm 10.66	95.6	29.3 \pm 3.1
106	.66	3	94	3 \pm 0.9
107	2.01	76	37	21 \pm 1.2
108	2.88	127	80	25 \pm 2.7
109	.85	23	85	15 \pm 2.2
110	3.84	160	82	23 \pm 2.7
112	2.33	329	38	78 \pm 4.3
113	6.48	4,010	26	319 \pm 15.7
	6.55	2,435	7	198 \pm 9.4
114	5.20	551	35	58 \pm 3.1
		538	49	57 \pm 3.3
115 (2,194m-2,224m)	.15	4	99	16 \pm 31.9
(3,078m-3,108m)	1.10	30	97	20 \pm 10
116 (Fine-grained)	6.86	478	34	38 \pm 2.0
(Coarse-grained)	5.03	538	40	59 \pm 3.2
120	5.52	251	58	25 \pm 1.7
121	.60	10	90	9 \pm 1.8
123	2.92	86	54	16 \pm 1.0
124	.53	80	97	8

Note: Sample localities are same as Table 1. Samples from localities 24 (except 2,972m-3,002m), 103, 104, and 105 analyzed at Laboratory of Isotope Geochemistry, Department of Geosciences, University of Arizona; all others analyzed at Department of Geological Sciences, Rice University, Houston, Texas, by J. A. S. Adams.

Constants used (Rice University):

$$\begin{aligned}\lambda_e &= 0.585 \times 10^{-10} \text{ yr}^{-1} \\ \lambda_\beta &= 4.720 \times 10^{-10} \text{ yr}^{-1} \\ 40 \text{ K/K} &= 1.19 \times 10^{-2} \text{ atom \%}\end{aligned}$$

Constants used (University of Arizona):

$$\begin{aligned}\lambda_e &= 0.589 \times 10^{-10} \text{ yr}^{-1} \\ \lambda_\beta &= 4.76 \times 10^{-10} \text{ yr}^{-1} \\ 40 \text{ K/K} &= 1.18 \times 10^{-4} \text{ atom ratio}\end{aligned}$$

TABLE 3. ANALYTICAL DATA FOR Rb-Sr AGES DETERMINED FOR THIS REPORT

Sample Locality	Rb ppm	Sr ppm	$^{87}\text{Sr}/^{86}\text{Sr}$	Apparent Age m.y.
5 (3,101m-3,102m)	96.5	265	.7290	1,275 *
				1,540 ✕
24 (3,753m)	116.4 ± 20	255.5 ± 2.6	$.7112 \pm .0010$	120 ± 60
103 (771m- 777m)	148.0 ± 2.3	199.3 ± 2.0	$.7380 \pm .0009$	1,080

Note: Sample localities are same as Table 1. Locality 5 sample analyzed at Teledyne Isotopes, Westwood, New Jersey; others analyzed at Laboratory of Isotope Geochemistry, Department of Geosciences, University of Arizona.

Initial $^{87}\text{Sr}/^{86}\text{Sr}$ ratio of 0.7090 ± 0.0005 used to calculate ages.

* Age calculated using an initial $^{87}\text{Sr}/^{86}\text{Sr}$ ratio of 0.7100.

✗ Age calculated using an initial $^{87}\text{Sr}/^{86}\text{Sr}$ ratio of 0.7060.