

Table 1. Isotopic age determinations of rocks in and near the San Carlos Indian Reservation. Ages determined by K-Ar method except C8, C9, E19, E20, and E23, which were determined by the $\text{Ar}^{39}/\text{Ar}^{40}$ method.

Locality No. ¹	Sample No.	Location	Age (Ma)	Rock unit	Rock type and material dated	Source	K ₂ O (wt % oxide) ²	K ₂ O (S.D.)	Radiogenic argon, mole%	% Rad. argon	K/Ca
C1a	UAKA7733	33°20'34" N, 110°28'07" W	0.93±0.08	Basalt of Period Mesa (BpBf)	Basalt, vr	Safiqullah and others, 1980					
C1b			1.54±0.12	Dacite of Mount Triple (Tdm)	Intrusive dacite, h	Bernatowicz, 1981	0.134	0.4	1.54±0.12	8.3	
C2	WSC-611	33°19'42" N, 110°26'41" W	1.46±0.07	Basalt of Mount Triple (Tdm)	do.	This report	0.034	0.0	0.284	12	3.3
C3	WSC-522	33°20'30" N, 110°27'17" W	2.8±0.6	Basalt of Bronco Gulch (Tbg)	do.	do.	0.035	0.6	3.329±0.12	22.9	
C4	WSC-549	33°20'29" N, 110°27'01" W	3.4±0.1	Basalt (Tbg)	do.	do.	1.437	0.1	0.064±0.02	22.9	
C5	WSC-616	33°17'52" N, 110°21'33" W	4.0±0.1	Basalt flows (Tbg)	Basalt, vr	do.	2.516	0.7	1.440±0.11	54.6	
C6	WSC-589	33°16'49" N, 110°17'02" W	4.6±0.5	Andesite and basalt (Tab)	Andesite	do.	1.957	0.4	5.779±0.11	53.1	
C7	UAKA761-3	33°19'01" N, 110°33'58" W	7.46±0.59	Basalt flows (Tbg)	do.	Safiqullah and others, 1980					
C8	221BR184	33°09'28" N, 110°23'50" W	10.5±0.15	2.5±0.12	Basalt (Tbg)	do.	Damon and others, 1997				
C9	3700	33°17'25" N, 110°22'24" W	11.7±0.09	Gila Conglomerate (Tgc)	tuff, h	do.					
E1	SCe-12	33°57'37" N, 109°36'37" W	10.2±0.2	Basalt (Tbg)	do.	This report	0.532	0.9	8.456±0.12	6.4	0.04
E2	WSC-637	33°57'56" N, 109°25'56" W	24.9±0.5	Andesite and basalt (Tab)	Basalt, vr	do.	2.555	0.0	9.235±0.11	65.2	
E3	PP207	33°20'35" N, 109°49'33" W	16.7±0.4	Basalt of Navajo Plateau (Tbn)	Rhyolite tuff, o	do.	0.959	0.9	2.313±0.11	60.0	
E4	AMZ287	33°17'58" N, 109°46'36" W	20.1±0.1	Andesite and basalt (Tab)	Andesite, wr	Marvin and others, 1987					
E5	AMZ283	33°17'24" N, 109°42'48" W	21.3±0.4	Tuff of Navajo Rim (Tnu)	Rhyolite tuff, b	do.					
Do	do	do	do.	do.	do.	do.					
E6	AMZ284	33°18'14" N, 109°41'30" W	25.6±1.7	Porphyritic trachyandesite (Tpt)	Andesite, p	do.					
E7	PP27	33°19'45" N, 109°36'15" W	25.6±0.4	Andesite and basalt (Tab)	Basalt, vr	This report	2.527	3.9	9.377±0.11	80.3	
E8	PP90	33°13'20" N, 109°30'12" W	26.1±0.6	Ebro Mountain Formation (Tem)	Rhyolite tuff, o	do.	4.435	7.5	1.484±0.10	86.3	
E9	SC77	33°05'27" N, 109°43'16" W	27.7±0.4	Andesite and basalt (Tab)	do.	F. Gray, unpublished data	2.636	0.2	1.059±0.05	79.7	
E10	do	do	do.	do.	do.	do.					
E11	L-676	33°05'30" N, 109°23'39" W	25.5±1.7	Mesonoite porphyry (Trp)	Rhyolite, s	Baldwin, 1971					
E12	L-847	33°02'48" N, 109°24'13" W	63.0±2.3	Dacite porphyry (Tep)	do.	do.					
Do	do	do	do.	do.	do.	do.					
E13	AV18	33°04'45" N, 109°24'28" W	27.6±1.6	Andesite and basalt (Tab)	Andesitic andesite	Strangway and others, 1976					
E14	do	do	do.	do.	do.	do.					
E15	do	do	do.	do.	do.	Houser and others, 1985					
E16	do	do	do.	do.	do.	do.					
E17	do	do	do.	do.	do.	Rhyolitic breccia, b					
E18	360BBY83	33°05'30" N, 109°15'18" W	25.9±0.6	Tuffaceous volcanic rocks (Twv)	Rhyolite tuff, a	B.B.Houser, unpublished					23.3
E19	559MAR9	33°05'45" N, 109°17'29" W	24.0±0.06	Tuff of Navajo Seep (Tbn)	rhyolite, s	do.					
E20	UAKA75-7	33°11'09" N, 110°23'00" W	20.0	do.	do.	Damon and others, 1997					
E21	do	do	do.	do.	do.	Schroeder, 1996					
E22	C-7-82	33°10'44" N, 109°22'48" W	20.6±0.7	do.	do.	Marvin and others, 1987					
E23	do	do	do.	do.	do.	Ferguson and Enders, 2000					
E24	33°07'06" N, 109°23'20" W	22.3±0.14	do.	do.	do.	Bennet, 1975					
N1	SC1071	33°36'11" N, 109°29'12" W	25.8±0.6	Granite porphyry (Tgp)	Rhyolite, b	This report	1.950	0.0	5.296±0.11	61.0	
N2	SC760	33°10'32" N, 109°31'41" W	26.0±0.4	Poeping-Deitz andesite (Tpn)	do.	0.767	0.0	2.221±0.11	67.6		
S1	WSC-612	33°16'10" N, 110°30'43" W	7.8±0.3	Basalt flows (Tbn)	Basalt, vr	do.	0.688	0.0	7.797±0.12	36.2	
S2	UAKA7538	33°14'54" N, 110°23'24" W	6.5±0.13	do.	do.	Safiqullah and others, 1980					
S4	GB-1	33°56'34" N, 109°31'17" W	14.9±0.5	do.	do.	McKee and Koski, 1981					
S5	do	do	do.	do.	do.	Keijzer, 1968b					
S6	SC254	33°08'09" N, 109°29'00" W	23.6±0.6	Tuffaceous volcanic rocks (Twv)	Rhyolite, s	This report	5.580	0.0	1.912±0.10	58.0	
S7	SC289	33°07'01" N, 109°29'40" W	21.8±0.4	volcanic rocks, undivided (Twv)	Rhyolite, b	do.	0.970	0.0	2.862±0.10	69.2	
S8	SC245	33°07'02" N, 109°23'12" W	21.5±0.4	do.	do.	do.	6.160	0.0	2.086±0.10	74.0	
S9	SC-742	33°10'35" N, 109°23'49" W	21.5±0.4	do.	do.	do.	7.360	0.0	2.120±0.10	77.4	
S10	SC638	33°07'00" N, 109°17'50" W	21.5±0.4	do.	do.	do.	7.244	0.0	2.396±0.11	73	
S11	SC638	33°07'32" N, 109°17'50" W	21.5±0.4	do.	do.	do.	9.160	0.0	3.114±0.10	68.2	
S12	SC149	33°04'26" N, 109°15'42" W	22.5±0.3	do.	do.	do.	4.830	1.573	89.7		
S13	SC139	33°02'25" N, 109°14'00" W	23.0±0.8	Santa Teresita Granite (Tg)	Granite, b	This report	9.700	0.0	3.234±0.10	43.8	
S14	SC093	33°02'31" N, 109°13'37" W	89.2±0.2	Mixed intrusive rocks (Lgm)	Quartz diorite, h	do.	1.079	0.1	1.794±0.09	96.9	
S15	SC095	33°02'31" N, 109°13'37" W	89.2±0.2	do.	do.	do.	9.340	0.0	3.040±0.08	98	
S16	SC161	33°01'25" N, 109°17'23" W	23.3±0.5	do.	do.	do.	9.800	0.0	3.305±0.10	58.7	
S17	SC0588	33°00'20" N, 109°13'05" W	22.9±0.4	do.	do.	do.	9.810	0.0	3.253±0.10	67.8	
S18	UAKA73-16	33°15'07" N, 110°15'05" W	24.9±0.69	do.	do.	Safiqullah and others, 1980					
TR	R7886	33°15'07" N, 110°20'00" W	2.6±0.4	Basalt flows (Tbf)	Basalt, wr?	Anderson, 1988					

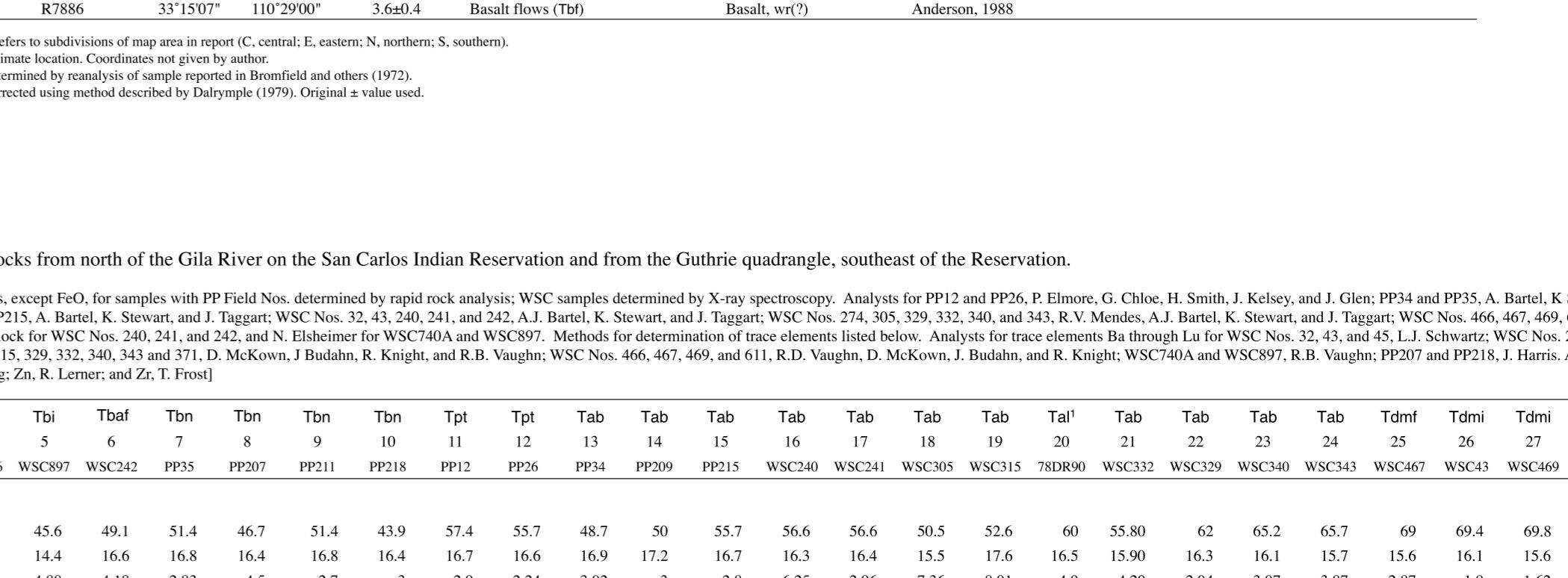


Table 2. Chemical analyses of volcanic rocks from north of the Gila River on the San Carlos Indian Reservation and from the Gutrie quadrangle, southeast of the Reservation.

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