Table 1. $^{40}Ar/^{39}Ar$ Age-Spectrum Dates for Samples Shown on the Cedar City 1:100,000 Geologic Map

Sample #	Latitude	Longitude	Unit	Material dated	Preferred age	Comments
1-1-53-68	37°31'12"	114°03'25"	Tb-Trachybasalt	whole rk	12.06±.05	Minor excess ^{40}Ar, isochron age
(same)			(same)	whole rk	12.29±.07	Near plateau; minor excess ^{40}Ar, isochron age
1-1-54-23	37°31'51"	114°05'07"	Thr-Tuff of Honeycomb Rock	sanidine	11.91±.04	Plateau; 62% released ^{39}Ar
1-1-50-16	37°27'19"	114°06'06"	Rhyolite flow over Ox Valley Tuff	sanidine	12.19±.08	Minor excess ^{40}Ar, plateau; 86% released ^{39}Ar
1-1-54-16	37°31'43"	114°06'06"	To-Ox Valley Tuff	sanidine	14.10±.03	Plateau; 93% released ^{39}Ar
92-557c	37°28'09"	113°45'55"	To-Ox Valley Tuff, cooling unit 1	sanidine	13.46±.05	Minor excess ^{40}Ar, plateau; 51% released ^{39}Ar
92-968	37°37'54"	113°53'55"	Thc-Tuff of Dow Mountain (Tuff of Horse Canyon equivalent)	sanidine	17.40±.06	^{40}Ar loss to a plateau; 51% released ^{39}Ar
92-971a	37°37'44"	113°53'32"	Tr-Racer Canyon Tuff	sanidine	--	Disturbed; ^{40}Ar loss
(same)			(same)	biotite	17.10±.03	Plateau; 70% released ^{39}Ar
89-314e	37°29'40"	113°52'13"	Tr-Racer Canyon Tuff	sanidine	18.70±.11	Minor ^{40}Ar loss, plateau; 57% released ^{39}Ar
(same)			(same)	biotite	18.63±.30	Minor excess ^{40}Ar, total-gas age
90-68	37°21'01"	113°35'32"	Pine Valley laccolith-base (compare to Tpv – below)	sanidine	20.47±.04	Plateau; 81% released ^{39}Ar
(same)			(same)	biotite	20.63±.12	Plateau; 78% released ^{39}Ar
90-7	37°20'22"	113°32'01"	500 feet above Pine V. laccolith base	sanidine	20.32±.08	Plateau; 76% released ^{39}Ar
(same)			(same)	biotite	20.46±.05	Plateau; 50% released ^{39}Ar
91-10	37°24'33"	113°28'57"	Tpv-Pine Valley Lat.; dacite lava flow	sanidine	20.44±.06	Plateau; 92% released ^{39}Ar
(same)			(same)	biotite	20.42±.07	Plateau; 86% released ^{39}Ar
91-52	37°27'45"	113°27'45"	Tpv-Pine Valley Lat.; dacite lava flow	biotite	20.44±.07	Plateau; 78% released ^{39}Ar
93-371b	37°30'34"	113°28'28"	Tpa-Rocks of Paradise	hornbl	21.97±.09	Plateau; 95% released ^{39}Ar
(same)			(same)	biotite	21.62±.08	Minor excess ^{40}Ar, isochron age
91-669	37°29'10"	113°29'03"	Tpa-Rocks of Paradise (see comment about Rencher Fm in Tpa text)	biotite	21.75±.30	Minor excess ^{40}Ar, total-gas age
94-365	37°44'34"	113°12'26"	Tit-Three Peaks Intrusion	biotite	21.76±.06	Minor excess ^{40}Ar, plateau; 51% released ^{39}Ar
93-377	37°32'03"	113°25'05"	Tcv-Commanche Canyon Tuff	hornbl	22.72±.07	Minor excess ^{40}Ar, plateau; 87% released ^{39}Ar
(same)			(same)	biotite	21.78±.08	^{40}Ar loss and excess ^{40}Ar; wghtd mean age, 77% ^{39}Ar
94-319	37°33'31"	113°20'16"	Tis-Stoddard Mountain Intrusion	biotite	21.86±.09	Minor excess ^{40}Ar, isochron age
94-1	37°51'31"	114°19'43"	Tqc-Basal Swett Tuff Mbr of Condor Canyon Formation	biotite	23.87±.04	Plateau; 81% released ^{39}Ar

Notes: All samples were heated in a low-blank furnace and analyzed by the step-wise heating method in the U.S. Geological Survey Argon Geochronology Laboratory, Denver, Colorado. Methods used in this laboratory and for these samples are described in Snee (2002). Samples were irradiated in the U.S. Geological Survey TRIGA reactor; standard irradiation details are described in Dalrymple and others (1981). Primary irradiation standard used for these samples is MMhb-1 hornblende with an age of 520.4 Ma (Samson and Alexander, 1987); secondary irradiation standard is FCT sanidine with an internally calibrated age of 27.84 Ma. Constants used are those of Steiger and Jager (1977). Plateaus were defined and plateau dates were calculated according to the method of Fleck and others (1977). Isochron analyses were done by the methods described in York (1969).