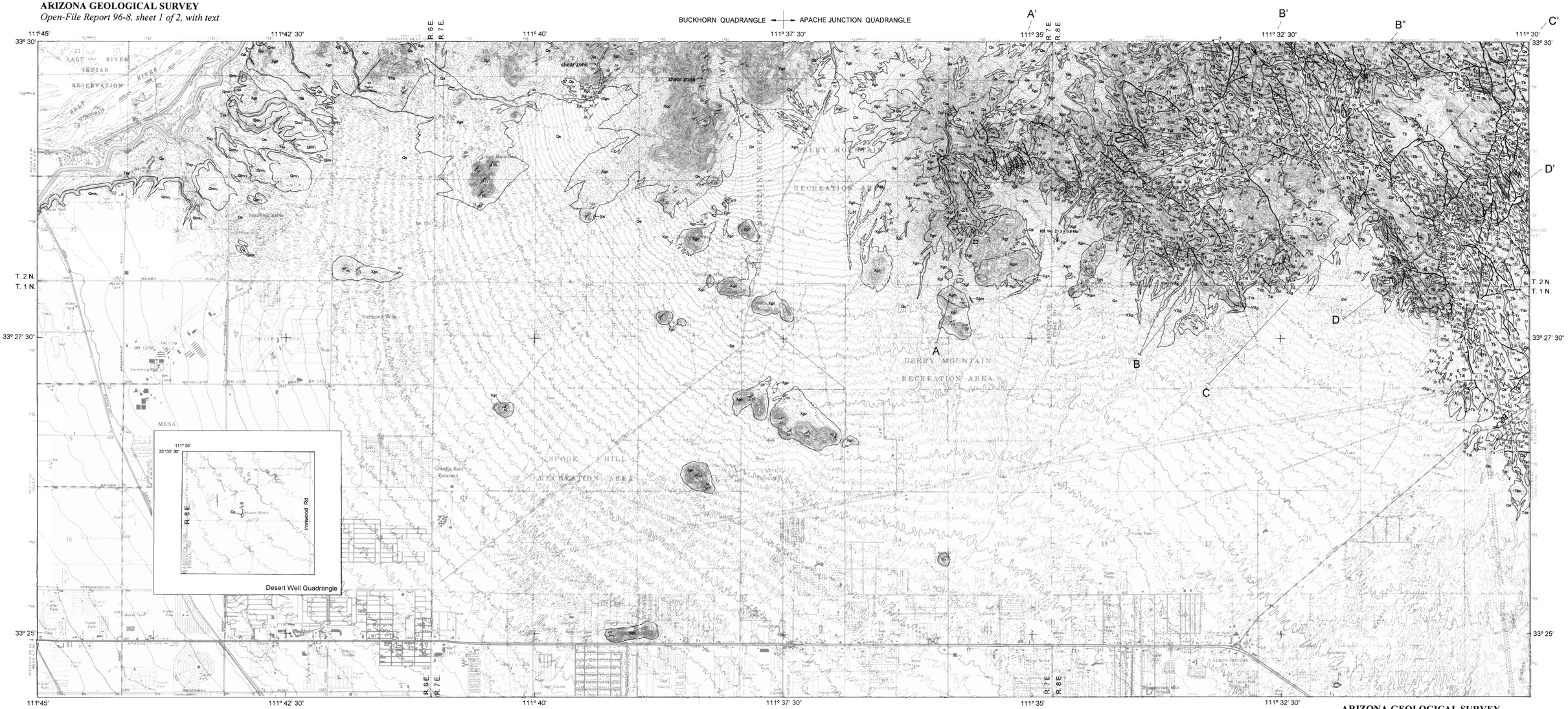
ARIZONA GEOLOGICAL SURVEY
Open-File Report 96-8, sheet 1 of 2, with text



Bedrock Geologic Map of the Apache Junction and Buckhorn quadrangles, Maricopa and Pinal Counties, Arizona

by

Steven J. Skotnicki and Charles A. Ferguson

June, 1996
(revised August, 1997)

UNIT DESCRIPTIONS

Quaternary

d(YXg)	Disturbed
Qs	Quaternary surficial deposits
Qlr	Late Pleistocene river deposits (10 to 250 ka)--Blue Point terrace
Qmr	Middle to Late Pleistocene river deposits (200 to 400 ka)--Mesa terrace
Qmr_y	Younger member of the Mesa terrace
Qmr_m	Middle member of the Mesa terrace
Qmr_o	Older member of the Mesa terrace
Qor_2	Early Pleistocene river deposits (750 ka to 2 Ma)--Sawik terrace
Qor_1	Older member of the Sawik terrace

Tertiary

Tsy	Younger sedimentary basin-fill deposits
$Tr_{1,2,3}$	Rhyolite
Trdt	Massive lithic tuff
Trt	Lithic tuff
Trd	Rhyodacite
Tdi	Intrusive dacite
Ta	Andesite
Tab	Andesite/basalt (?)
Tdc	Dacite
Tt	Lithic tuff
Tss	Sandstone
Tb	Basalt
Tst	Tuffaceous conglomerate
Trb	Rhyolite of Bulldog Canyon
Tr	Rhyolite, undifferentiated
Trbt	Massive tuff
Tstb	Granite breccia
Tc	Conglomerate
Ts	Sandstone
Tsc	Conglomerate and sandstone, undivided

Cambrian(?) and Proterozoic

Cq	Quartzite
YXg	K-feldspar porphyritic granite
Xs	Biotite schist
Xgm	Medium-grained granite
Xgf	Fine- to medium-grained sparsely K-feldspar porphyritic granite
Xgc	Coarse-grained granite

SCALE 1:24,000

1 .5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

TOPOGRAPHIC CONTOUR INTERVAL 20 FEET

N MN 12.5°

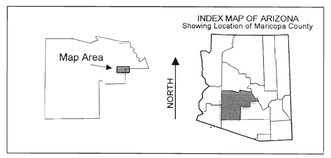
⊗ Zircon U-Pb FZ-15I

Age (Ma)	$^{40}Ar/^{39}Ar$ sanidine samples	map unit
1) no crystals	sample 2.22.96.5	Trd
2) no crystals	sample 2.20.96.3	Tdc
3) no crystals	sample 4.12.96.10	Tt
4) no crystals	sample 4.12.96.11	Tt
5) no crystals	sample 4.12.96.12	Tt
6) no crystals	sample 2.15.96.2	Tt
7) 18.99 ± 0.11	sample FX180	Trt
8) 18.74 ± 0.19	sample FX135	Tr_1
9) 18.88 ± 0.09	sample FX133	Tr_2
10) 19.00 + 0.09	sample FX130	Trt
11) 18.68 ± 0.09	sample FX179	Trt
12) 19.03 ± 0.10	sample FX178	Trt
13) no crystals	sample FX172	Tst
14) 20.53 ± 0.12	sample FX174(ciast of Trb)	Tst
15) no crystals	sample FX175	Trb
16) 20.52 ± 0.05	sample FX176	Trb
17) no crystals	sample FX171	Tst
18) 20.55 ± 0.15	sample FX115	Trb
19) no crystals	sample 2.23.96.3	Trd
20) 18.69 ± 0.15	sample FX181	Trt
21) no crystals	sample FX131	Trd
22) 20.55 ± 0.11	sample FX137	Tst
23) 18.84 ± 0.14	sample 2.27.96.1	Tr_3

Map Symbols

- bedding
- metamorphic foliation in plutonic rocks, with lineation, number represents plunge
- S-C foliation in mylonitic shear zone, letter represents sense of shear (n=normal, r=reverse)
- mylonitic foliation
- flow foliation in volcanic rocks
- contact, dashed where approximately located
- fault, with attitude, dashed where uncertain, dotted where concealed
- dacite dikes
- mafic dikes
- marker horizon or shear zone boundary
- 19 $^{40}Ar/^{39}Ar$ sanidine geochron. sample

ARIZONA GEOLOGICAL SURVEY
Open-File Report 96-8, sheet 1 of 2, with text



Jointly funded by the Arizona Geological Survey and the U.S. Geological Survey STATEMAP Program Contract #1434-95-A-1353.