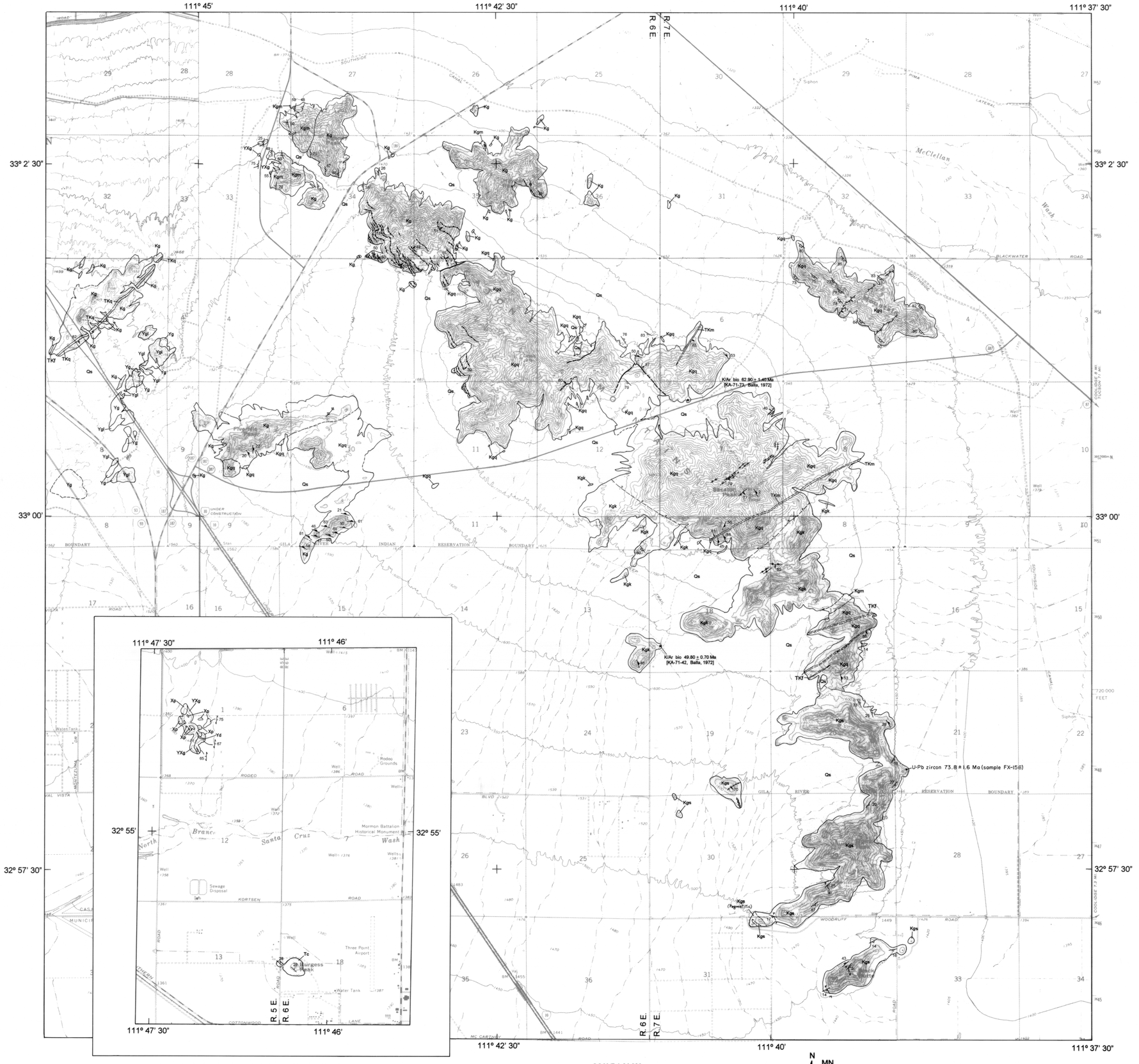
ARIZONA GEOLOGICAL SURVEY
Open-File Report 96-10, sheet 1 of 2, with text

Geologic Map of the Sacaton Mountains, Pinal County, Arizona
(eastern half)

by
Steven J. Skotnicki and Charles A. Ferguson
June, 1996



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SCALE 1:24,000
1 MILE
7000 FEET
1 KILOMETER
TOPOGRAPHIC CONTOUR INTERVAL 20 FEET

N MN 12.5°

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UNIT DESCRIPTIONS

Quaternary

Qs Quaternary surficial deposits

Tertiary

Tc Breccia and conglomerate

Tertiary or Cretaceous dikes

TKf Rhyolite dikes
TKp Granite porphyry dikes
TKa Amphibole-porphyritic dikes
TKb Biotite-porphyritic dikes
TKm Monzonite dikes
TKq Quartz-porphyritic dikes

Units at Sacaton Porphyry copper deposit (from Cummings, 1982)

TKd Dacite porphyry
TKmp Monzonite porphyry
TKqp Quartz monzonite porphyry
TKx Mixed porphyry-granite breccia

Cretaceous Granitoids (Sacaton Peak and assoc. granitoids)

Kgq Quartz-porphyritic phase of the Sacaton Peak Granite
Kg Sacaton Peak Granite
Kgm Mafic phase of the Sacaton Peak Granite
Kgk K-feldspar-porphyritic phase of the Sacaton Peak Granite
Kgs Signal Peak Granite

Paleozoic or Middle Proterozoic

YPzs Contact metasedimentary rocks (undivided)
YCq Quartzite

Middle Proterozoic

Yd Diabase
Ygl Leucocratic granite
Yg Coarse-grained granite

Early to Middle Proterozoic

YXg Foliated coarse-grained granite

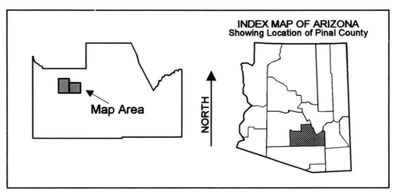
Early Proterozoic

Xg Foliated granite
Xp Pinal Schist

Map Symbols

Planar fabrics

- S1 metamorphic foliation in Pinal Schist
- S2 metamorphic foliation in Pinal Schist
- metamorphic foliation in plutonic rocks, with lineation, number represents plunge
- S-C foliation, letter represents sense of shear (n=normal, r=reverse)
- flow-foliation in plutonic rocks
- magmatic layering
- mylonite
- bedding
- contact, dashed where approximately located
- fault, with attitude, dashed where uncertain, dotted where concealed
- low-angle fault

Dikes

- pegmatite dikes
- quartz veins
- rhyolite dikes (TKr)
- mafic dikes
- granite porphyry dikes (TKp)
- hornblende porphyritic dikes (TKa)
- biotite porphyritic dikes (TKb)
- monzonite dikes (TKm)