PLATE 2

CORRELATION CHART FOR 'LARAMIDE' IGNEOUS ROCKS

SADDLE MOUNTAIN AREA, DRIPPING SPRING MOUNTAINS, TORTILLA MOUNTAINS, AND RAY AREA

GILA AND PINAL COUNTIES, ARIZONA

TIME IN MILLIONS OF YEARS: 60, 62, 65, 70, 75

TORTILLA MOUNTAINS (Crozier Peak area)

Krieger (1974), Keith, unpub. mapping

- Mineralization
- Granodiorite porphyry (68.0b, 67.5b, 66.0b)
- Quartz latite porphyry
- Melanocratic rhyodacite
- Rhyodacite porphyry (rare)
- Rhyodacite porphyry (= dacite porphyry)
- Hornblende diorite
- Quartz diorite 80.6w*
- Hornblende andesite porphyry
- Diorite (Tortilla quartz diorite equivalent) (65.6b reset by granodiorite porphyry)
- Turkey Track porphyry
- Williamson Canyon volcanics

SADDLE MOUNTAIN AND CHRISTMAS AREAS

This study, Koski (1978), Creasey & Kistler (1962)

- Ash Creek rhyolite stock and related dikes (61.0b)
- Melanocratic rhyodacite porphyry
- Mineralization (61.0m, 61.4b)
- Rhyodacite porphyry (62.0b)
- Dacite porphyry (includes MacDonald stock and Granite Basin laccolith (70.5h, 68.0h, 62.6z, 56.2z)
- Andesite porphyry
- Hornblende andesite porphyry (74.3h)
- Lee Mountain microgranodiorite (61.7h, 79.7h)
- Rhyolite
- Hornblende basalt? porphyry (79.3h)
- Turkey Track porphyry
- Williamson Canyon volcanics and intrusive basalt porphyry (74.3h, 75.6b)

SOUTHERN DRIPPING SPRING MOUNTAINS

Keith (unpub. mapping)

- Rhyodacite porphyry
- Dacite porphyry
- Rhyolite porphyry
- Quartz latite porphyry
- Hornblende andesite
- Tortilla quartz diorite
- Trachyte
- Williamson Canyon volcanics

TORTILLA MOUNTAINS (Ripsey Ridge area)

Krieger (1974), Keith, unpub. mapping, Schmidt (1971)

- Younger quartz latite porphyry
- Mineralization
- Granodiorite porphyry
- Melanocratic rhyodacite
- Rhyodacite porphyry
- Rhyodacite porphyry (= dacite porphyry)
- Hornblende diorite porphyry
- Hornblende andesite porphyry
- Older quartz latite porphyry
- Dacite porphyry (71.3h)
- Cretaceous volcanics (Williamson Canyon equivalent?)

TORTILLA MOUNTAINS (Kearney – Grayback quadrangles)

Schmidt (1971), Cornwall & Krieger (1975a & 1975b)

- Teapot Mountain porphyry
- Quartz monzonite porphyry
- Quartz latite porphyry
- Mineralization
- Granodiorite porphyry
- Melanocratic rhyodacite porphyry
- Rhyodacite porphyry (Tr_2)(63.1b)
- Rhyodacite (dacite porphyry)
- Teacup (Grayback) granodiorite (62.9b, 61.4g)
- Andesite dikes
- Williamson Canyon volcanics

CENTRAL DRIPPING SPRING MOUNTAINS (Troy area)

Cornwall et al. (1971), Banks et al. (1972), Keith, unpub. mapping

- Late rhyodacite porphyry dikes (69.7b)*
- Mineralization?
- Melanocratic rhyodacite porphyry dikes
- Mineralization
- Rhyodacite porphyry dikes (Tr_2)(96.0b)*
- Dacite porphyry?
- Hornblende andesite dikes
- Mineralization
- Rattler (Troy) granodiorite (74.4h, 71.1b, 69.7b, 68.5b, 68.5a, 68.3s)
- Tortilla quartz diorite
- Basalt porphyry

RAY AREA

Cornwall et al. (1971), Banks et al. (1972) Keith, unpub. mapping; Ross & Cook (1966)

- Late rhyodacite porphyry
- Quartz latite porphyry
- Teapot Mountain porphyry (63.0f)
- Mineralization (65.6b, 65.1b, 61.4g, 60.0s)
- Granite Mountain porphyry (63.0b, 61.0z, 60.0b, 59.5b, 59.5b)
- Melanocratic rhyodacite porphyry
- Rhyodacite porphyry (Tr_2)(62.1b)
- Rhyodacite porphyry (dacite)
- Hornblende andesite porphyry (128h)
- Tortilla quartz diorite (285h, 110h, 93.2h, 83.1h, 80.0b*, 72.4g, 71.5b, 71.3b, 70.6b, 69.8z, 69.8z, 69.5a, 68.7b)
- Basalt porphyry sills

EXPLANATION FOR AGE DATES

- 60.5m K – Ar muscovite (sericite)
- 60.5f K – Ar K - feldspar
- 60.5b K – Ar biotite
- 60.5h K – Ar hornblende
- 60.5w K – Ar whole rock
- 60.5s Fission-track sphene
- 60.5z Fission-track zircon
- 60.5a Fission-track apatite
- 60.5g Fission-track garnet
- 60.5b Rubidium – Strontium biotite

* Sample contains more than 6% chlorite