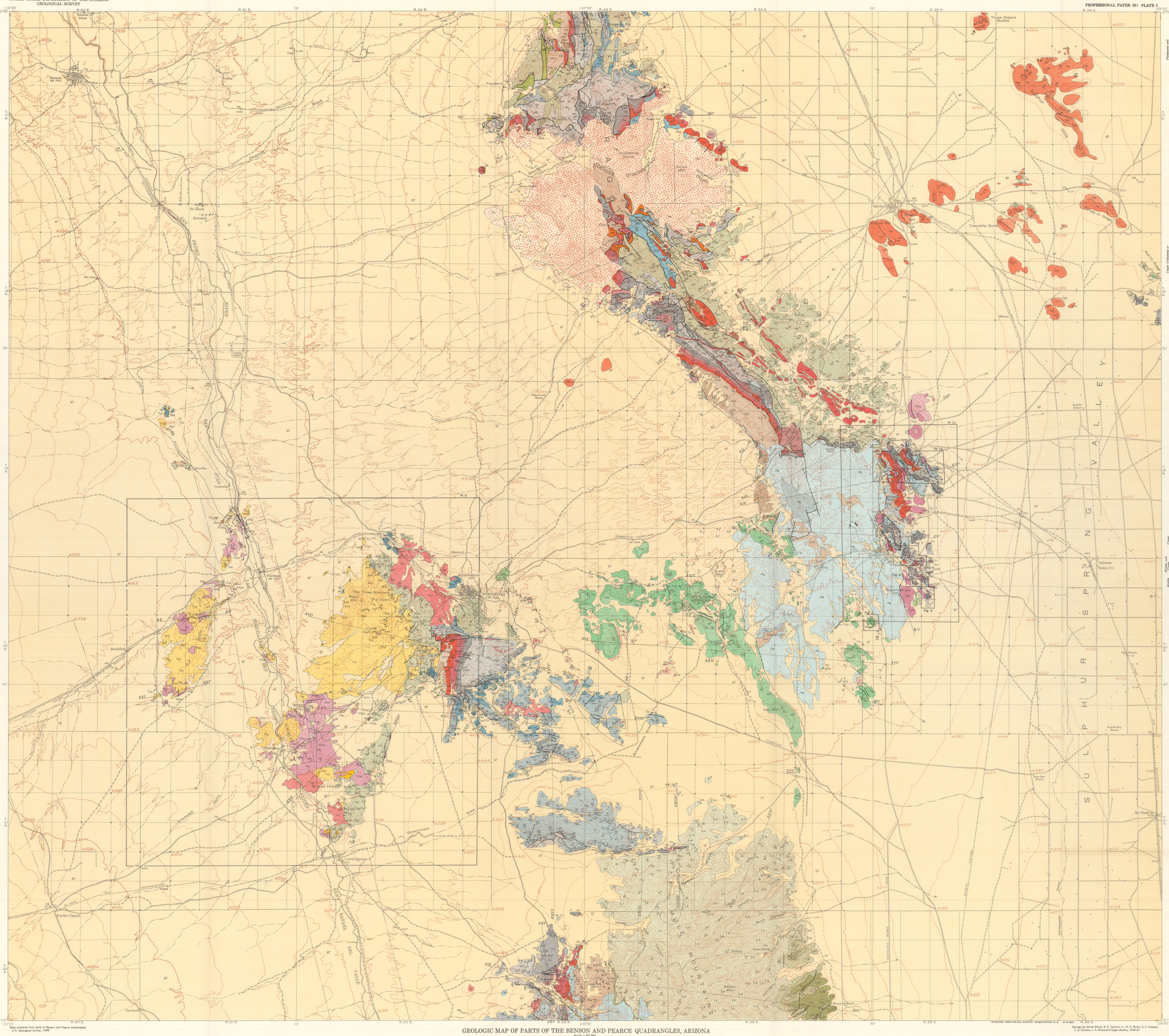

Base prepared from parts of Benson and Pearce quadrangles, U.S. Geological Survey, 1948

GEOLOGIC MAP OF PARTS OF THE BENSON AND PEARCE QUADRANGLES, ARIZONA

Scale 1:62,500

Geology by James Gilluly, R. S. Cannon, Jr., W. S. Myers, S. C. Creasey, F. S. Simons, J. H. Wiese and Edgar Bowles, 1936-47

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. M R-581

EXPLANATION

QUATERNARY

- QT — Alluvium and Gila conglomerate
- QTb — Basalt; intrusive and extrusive

UNCONFORMITY

TERTIARY

Pliocene and Recent

- Tv — S O volcanics: Tv, intrusive andesite; Tvu, upper andesite member; Tvm, middle andesite member; Tvl, lower tuffaceous member
- Tp — Pearce volcanics: Tpr, rhyolite member; Tpa, andesite member
- Tr — Intrusive rhyolite
- Ts — Prevolcanic sedimentary rocks

Miocene(?) to lower Pliocene(?)

- Tsc — Schieffelin granodiorite
- Tsg — Stronghold granite and related dikes
- Tsa — Andesite porphyry
- Tup — Uncle Sam porphyry: tb, intrusive breccia

UNCONFORMITY (OVERTHRUSTS)

- Tfb — Fault breccia

Upper Cretaceous or lower Tertiary — Hermosillo group

- TKbb — Bronco volcanics: TKbq, quartz latite member; TKba, andesitic member
- TKsq — Sugarloaf quartz latite: TKsa, andesitic member; TKsl, quartz latite member
- TKg — Granite and gneiss near Jordan and Four Canyons
- TKa — Granite in Ash Creek Ridge

UNCONFORMITY

CRETACEOUS

Comanche series — Bisbee group

- Kc — Cintura formation
- Km — Mural limestone: Kmr, reef limestone member
- Kb — Bisbee formation
- Kcc — Morita formation
- Kg — Glance conglomerate
- Kv — Cretaceous(?) volcanic rocks: Kv, andesite; Kl, quartz latite

UNCONFORMITY

TRIASSIC OR JURASSIC

Non-group

- JKc — Juniper Flat granite
- JKg / JKa — Gneissic quartz monzonite: JKa, associated alaskite
- JKc — Copper Belle monzonite porphyry
- JKcp — Cochise Peak quartz monzonite
- JKq — Turquoise granite

PERMIAN

- Pep — Epitaph dolomite
- Pc — Colina limestone
- PCe — Earp formation

CARBONIFEROUS

- PzL — Paleozoic rocks, undifferentiated
- Ch — Horquilla limestone

DISCONFORMITY

DEVONIAN

- Ce — Escabrosa limestone

DISCONFORMITY

- Dm — Martin limestone

DISCONFORMITY

CAMBRIAN

- Ca — Abrigo limestone
- Cb — Bolsa quartzite

UNCONFORMITY

PRE-CAMBRIAN

Intrusive rocks

- pCa — Albite granite
- pCq — Quartz diorite
- pCg — Gneissic granite
- pCm — Sacramento quartz monzonite

Metamorphosed rocks

- pCp — Pinal schist

Contact
Dashed where approximately located

Fault
Dashed where approximately located. U, upthrown side; D, downthrown side

Thrust fault
T, upper plate

Concealed fault

Strike and dip of beds

Strike and dip of overturned beds

Strike of vertical beds

Horizontal beds

Strike and dip of foliation

Strike of vertical foliation

Plunge of lineation

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION 1913