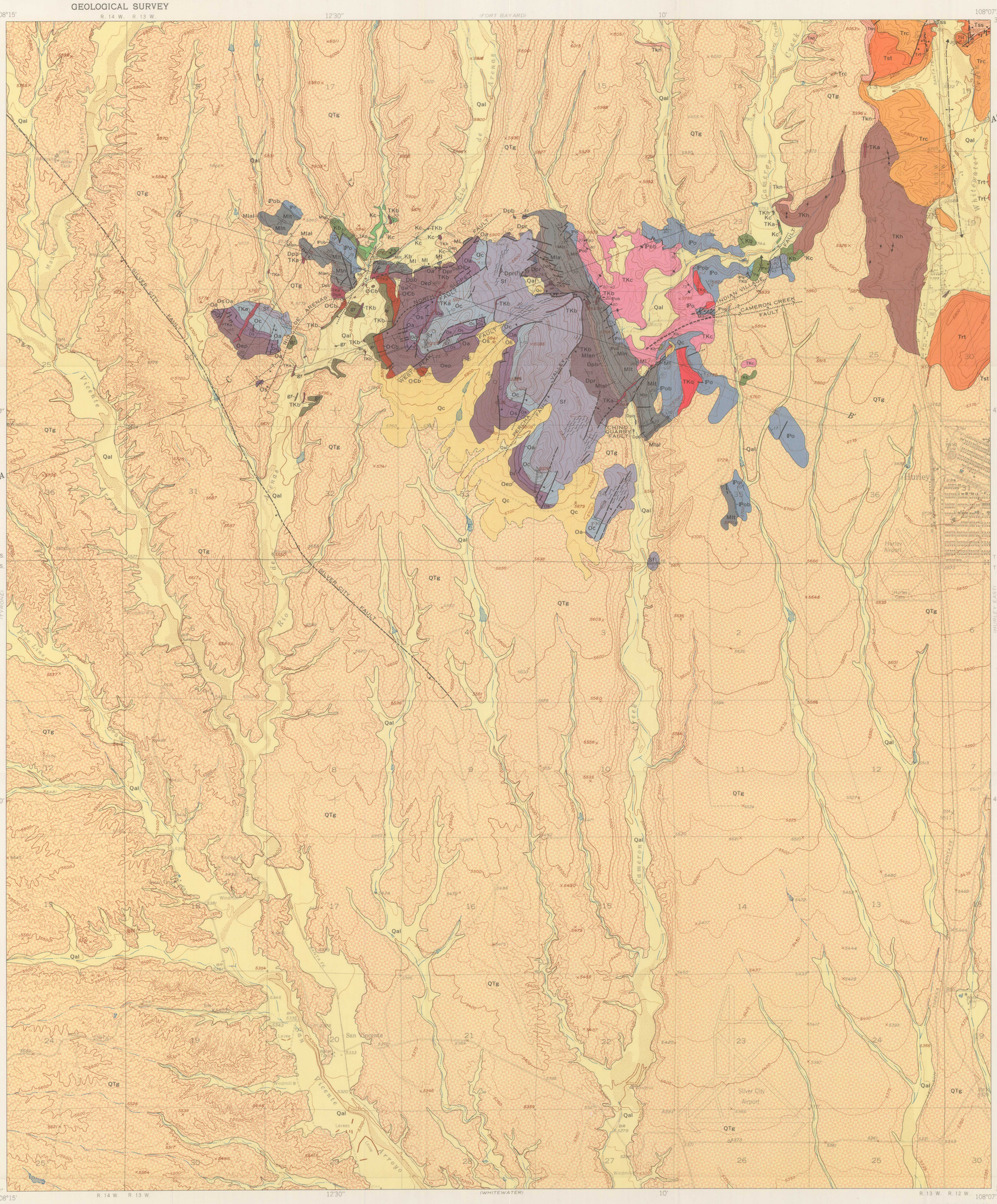


Base by U.S. Geological Survey, 1949

Geology by W. P. Pratt aided by W. R. Jones, 1958–60

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 25 FEET
DATUM IS MEAN SEA LEVEL

TRUE NORTH
MAGNETIC NORTH
12½°
APPROXIMATE MEAN DECLINATION, 1967

EXPLANATION

QUATERNARY

Pleistocene to Recent

- Qal — Alluvium
- Qc — Colluvium

UNCONFORMITY

Pliocene and Pleistocene

- QTg — Gila Conglomerate

UNCONFORMITY

TERTIARY

Miocene(?)

- Tkn — Kneeling Nun Tuff
- Tss, Tst — Sugarlump Tuff
  - Tss, *tuffaceous sandstones*
  - Tst, *gray vitric tuffs*
- Trt, Trc — Rubio Peak Formation
  - Trt, *tuff*
  - Trc, *conglomerates and sandstones*

DISCONFORMITY

CRETACEOUS TO TERTIARY

Upper Cretaceous to lower Tertiary

- TKc — Biotite-quartz latite of Cameron Creek laccolith
- TKh — Hornblende latite of Hurley sill
  Includes some areas of alluvium and colluvium
- TKq — Biotite latite of Chino Quarry sill
- TKa, TKb — Quartz latite and basalt dikes
  - TKa, *silicic and intermediate rocks*
  - TKb, *mafic rocks*
  - *Ages relative to other intrusions are uncertain, but some and perhaps most dikes are approximately contemporaneous with Cameron Creek laccolith*

CRETACEOUS

Upper Cretaceous

- Kc — Colorado Formation

Upper(?) Cretaceous

- Kb — Beartooth Quartzite

UNCONFORMITY

PERMIAN

Lower Permian

- Pa — Abo(?) Formation

PENNSYLVANIAN

Upper Pennsylvanian

- IPs — Syrena Formation

Middle Pennsylvanian — Magdalena Group

- IPo, IPob — Oswaldo Limestone
  - IPob, *basal shale member*

DISCONFORMITY

CARBONIFEROUS — MISSISSIPPIAN

Lower Mississippian

- Mlt, Mln, Mlal, Mlan, Ml, Mla — Lake Valley Limestone
  - Mlt, *Tierra Blanca Member*
  - Mln, *Nunn Member*
  - Mlal, *Alamogordo Member*
  - Mlan, *Andrecito Member*
  - Mla, *Alamogordo and Andrecito Members undivided*

DEVONIAN

Upper Devonian

- Dpb, Dpr, Dp — Percha Shale
  - Dpb, *Box Member*
  - Dpr, *Ready Pay Member*
  - Dp, *Percha Shale undivided. In sections only*

DISCONFORMITY

SILURIAN

- Sf — Fusselman Dolomite

ORDOVICIAN

Middle and Upper Ordovician — Montoya Group

- Oc — Cutter Dolomite
- Oa — Aleman Formation
- Os — Upham Dolomite and Cable Canyon Sandstone Members of Second Value Dolomite
- Oas — Aleman Formation, and Upham Dolomite and Cable Canyon Sandstone Members *In sections only*

DISCONFORMITY

Lower Ordovician

- Oep — El Paso Dolomite

CAMBRIAN

Upper Cambrian

- OCb — Bliss Sandstone

UNCONFORMITY

PRECAMBRIAN

- gr — Granite

Contact, showing dip
Dashed where approximately located; short dashed where indefinite; dotted where concealed

Fault
Dashed where approximately located; short dashed where inferred; dotted where concealed; queried where existence is uncertain. Bar and ball on downthrown side

Concealed inferred fault, located by airborne magnetic survey
Bar and ball on downthrown side

Concealed probable fault

Shear zone

Postulated preintrusion position of fault

Anticline
Showing approximate location of crestline and direction of plunge

Minor syncline
Showing direction of plunge

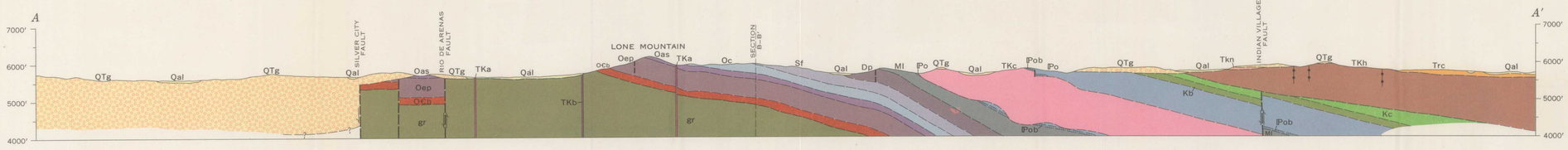
Strike and dip of beds

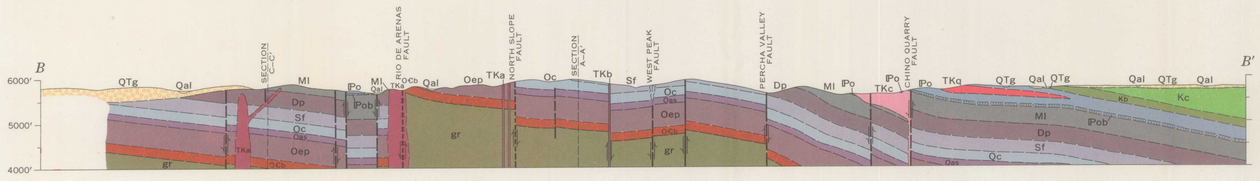
Strike and dip of joints

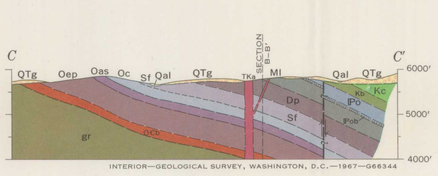
Strike of vertical joints

Manganiferous calcite vein

Location of measured stratigraphic section







INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1967—G66344

GEOLOGIC MAP AND SECTIONS OF HURLEY WEST QUADRANGLE, GRANT COUNTY, NEW MEXICO