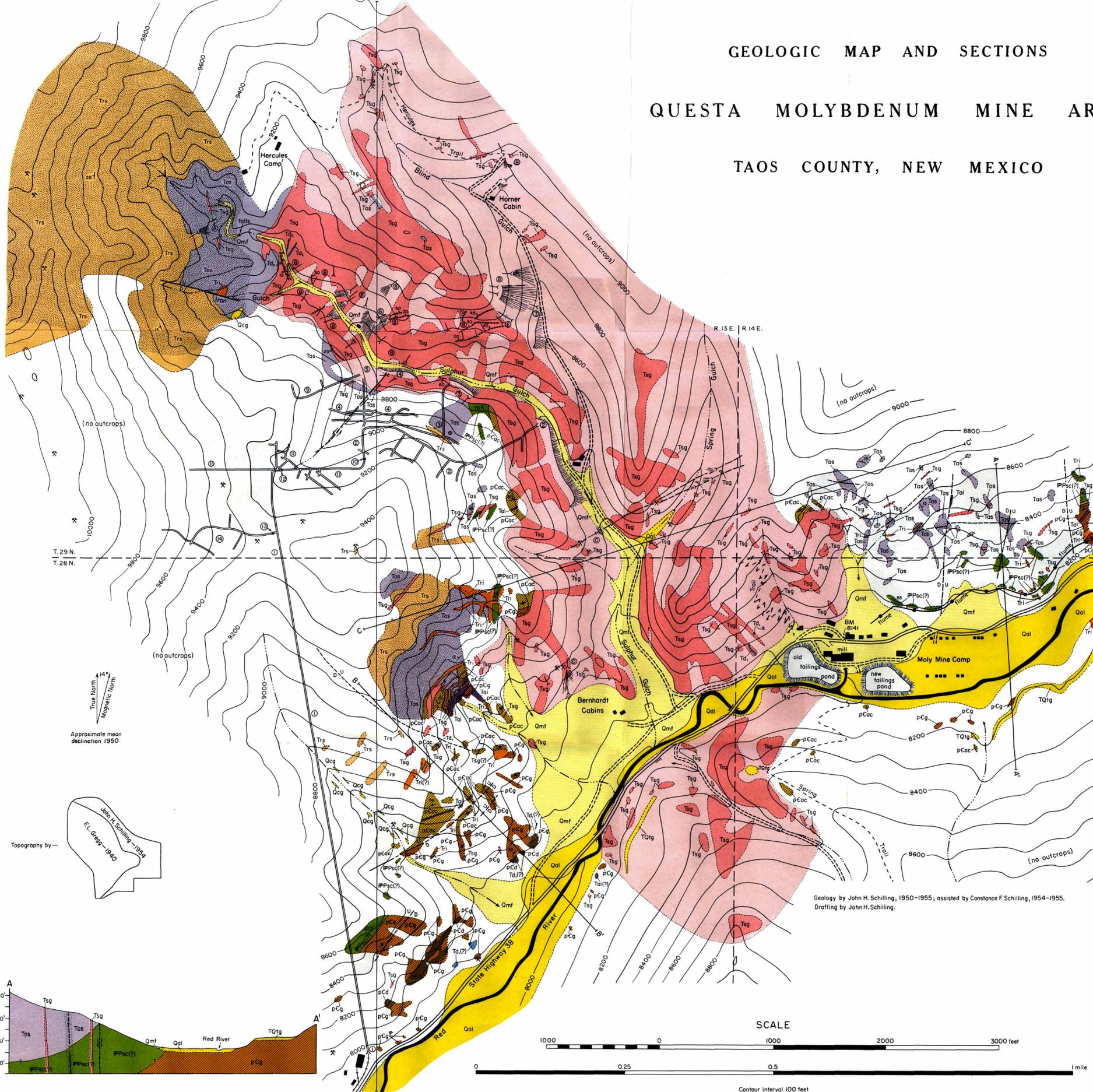


# GEOLOGIC MAP AND SECTIONS QUESTA MOLYBDENUM MINE AREA TAOS COUNTY, NEW MEXICO



- ### EXPLANATION
- Cover  
(pink where underlain by soda granite)  
*Soil, talus, slope wash, landslide debris, etc.*
  - Alluvium  
*Stream channel and floodplain gravels.*
  - Mud-flows
  - Cemented Gravels  
*Alluvium and mud-flows cemented by limonite.*
  - Terrace Gravels
  - UNCONFORMITY**
  - Postgranite Dikes  
*Td<sub>1</sub> - Greenish-gray, porphyritic quartz monzonite to monzonite dikes.  
Td<sub>2</sub> - Black, aphanitic dikes.*
  - Soda Granite  
(outcrops in red, pink where concealed by cover)  
*Pink, porphyritic to megacrystic, albite-rich granite stock and dikes, some epelite and pegmatitic granite.*
  - Altered Rock (Hydrothermal Pipes)  
*Yellow, treeless areas of brecciated and hydrothermally altered rock. Gradational boundaries.*
  - Volcanic Complex and Associated Intrusives  
*Trs, Rhyolitic series - pink to white rhyolite flows and sills (?), and gray to white breccias and tuffs.  
Tri, Rhyolite intrusives - pink to white rhyolite dikes, sills, and plugs.  
Tas, Andesitic series - gray and purple andesite flows, sills (?), breccias, and tuffs, and gray quartz latite flows and sills (?).  
Tai, Andesite intrusives - gray andesite and latite (?) dikes and sills.*
  - UNCONFORMITY**
  - Sangre de Cristo (?) Formation  
*Red to gray siltstones, sandstone, and conglomerate.*
  - UNCONFORMITY**
  - Diabase Dikes
  - Granite  
*Gray granite gneiss, gneissic granite, and massive granite.*
  - Amphibolite Complex  
*Amphibolite gneiss and schist, and quartz-biotite schist.*

QUATERNARY  
TERTIARY  
PENNSYLVANIAN-PERMIAN(?)  
PRECAMBRIAN

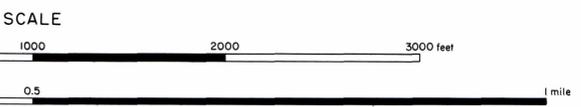
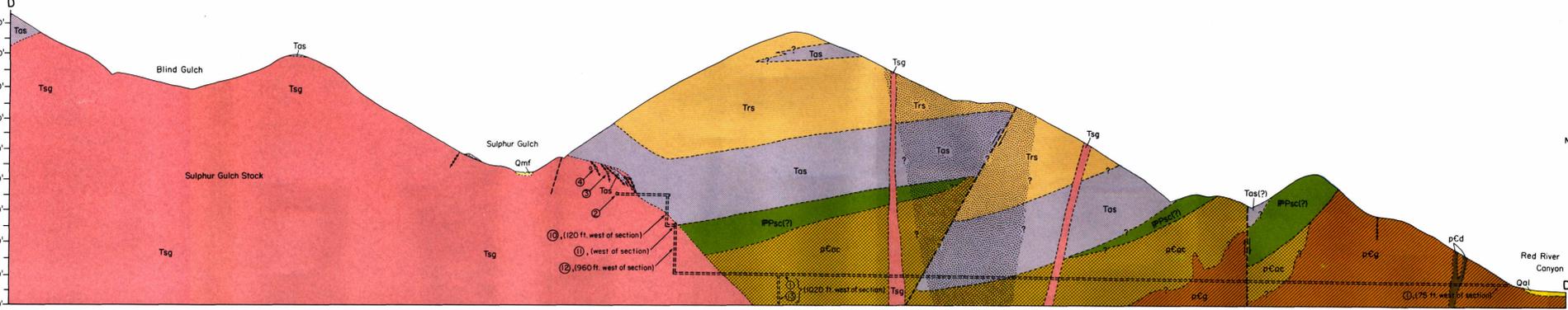
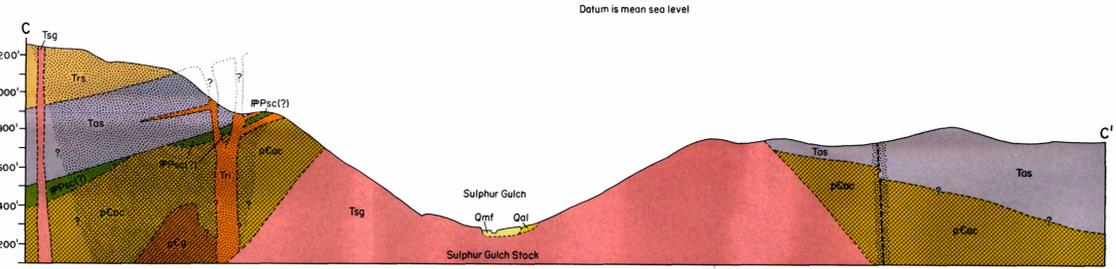
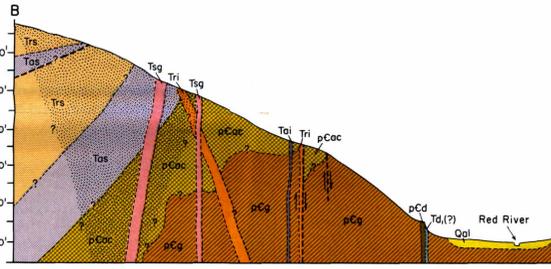
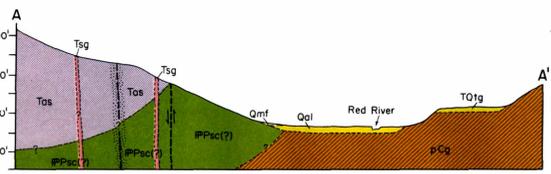
T. 29 N.  
T. 28 N.

R. 13 E. | R. 14 E.

True North  
Magnetic North  
Approximate mean declination 1950

Topography by—  
John H. Schilling 1954  
F.L. Gregg—1940

Geology by John H. Schilling, 1950-1955; assisted by Constance F. Schilling, 1954-1955.  
Drafting by John H. Schilling.



SCALE

Contour interval 100 feet  
Datum is mean sea level

- contacts (on map, solid where separating two rock units, dashed between outcrops and cover, dotted where concealed; on sections, dashed)
  - high-angle faults (dashed where concealed)  
U, upthrown side; D, downthrown side
  - dip and strike of beds      horizontal beds
  - 80°      dip and strike of schistosity      vertical schistosity
  - mothybenite-bearing veins
  - streams      intermittent streams      springs
  - graded roads      ungraded roads      buildings
  - prospect pits      adits      mine dumps
  - Prospects—
    - ⊙ Hercules prospects
    - ⊙ Horner prospects
    - ⊙ Northern Bernhardt prospect
    - ⊙ Southern Bernhardt prospect
    - ⊙ Questa Molybdenum Mine Workings—
      - ⊙ Moly Tunnel, portal, surface track, and buildings
      - ⊙ Z Tunnel Level, portal, and dump
      - ⊙ W Level, portal, and dump
      - ⊙ No. 3 Level and dump
      - ⊙ Covered area—portals of No. 3 Level and Glory Hole Levels destroyed
      - ⊙ B Level portal and dump
      - ⊙ Blind Gulch Tunnel portal and dump
      - ⊙ Other portals and dumps
      - ⊙ No. 1 Sublevel Old Glory Hole Workings
      - ⊙ Z Winze
      - ⊙ Z Winze 2nd Level
      - ⊙ 2nd Winze
      - ⊙ Tunnel Shaft
      - ⊙ Tunnel Shaft 2nd Level
- Note: only a small fraction of the mine workings are shown on this map.