

# GEOLOGIC MAP OF THE ORTIZ MINE GRANT SANTA FE COUNTY, NEW MEXICO

1:24,000

## EXPLANATION

- GEOLOGIC UNITS**
- Quaternary-Tertiary unconsolidated units
  - Anthropogenic deposit
  - Qe - Eolian deposits
  - Qf - Alluvial fan
  - Qa - Active alluvium
  - Qt - Alluvial terrace, Galisteo Creek; Qt - Alluvial terrace on tributaries
  - Qp - Pediment deposit
  - Qe - Alluvium and colluvium, undivided
  - Qc - Colluvium and talus
  - Qcf - Older colluvium & fan deposits
  - QTf - Terto-Gravel - conglomerate derived from Ortiz and San Pedro Mountains
  - Qta - Ancha Formation - conglomerate derived from Sange de Cristo Mountains
  - Tsf - Santa Fe Group - Rio Grande Rift basin fill
- Mines, prospects, wells
  - x - Placer pit
  - o - Mine
  - # - Shaft
  - ◇ - Oil test well
  - - Adult
  - x - Prospect pit
- Structural Point Symbols
  - Bedding
  - Bedding overturned
  - Bedding vertical
  - Dike contact dip
  - Fault plane
  - Foliation
  - Joint
  - Joint vertical
  - ↑ Mineral lineation
- Structural Line Symbols
  - Mineralized shear or vein
  - Coal seam
  - Collapse breccia pipe contact
  - Conglomerate bed
  - Contact anthropogenic deposit
  - Contact approximately located
  - Contact approximately located, concealed
  - Contact approximately located, queried
  - Contact gradational
  - Contact gradational, concealed
  - Contact unconsolidated unit
  - Fault approximately located
  - Fault approximately located, concealed
  - Fault approximately located, concealed, queried
  - Fault approximately located, queried
  - Limburg dike
  - Trace of anticlinal axis
  - Trace of anticlinal axis, concealed
  - Trace of monoclinic bend
  - Trace of synclinal axis
  - Trace of synclinal axis, concealed

- Mid-Tertiary, Oligocene intrusive units
  - Ti - Intrusive (undifferentiated)
  - Thp - Hornblende porphyry
  - Thfp - Hornblende-feldspar porphyry
  - Tmd - Mafic dikes
  - Thmp - Hornblende porphyry monzonite dikes
  - Til - Trachytic latite - syn- & post-mineral dikes
  - Tl - Latite - syn- & post-mineral dikes
  - Tmpp - pink monzonitic porphyry, Iron Vein area
  - Tlp - Latite porphyry - subvolcanic intrusives in Ortiz Mountains
  - Tha - Hornblende andesites
  - Tqd - Quartz monzonitic stocks in southwestern and eastern parts of Ortiz Mountains
  - Tam - Augite monzonite - central stock of Ortiz Mountains
  - Tr - Rhyolitic porphyry - sills and dikes, San Pedro Mountains
  - Tap - Andesitic porphyry, Tap - Mesa de los Caberos porphyry, Iacoliths and sills throughout Ortiz Porphyry Belt
- Mid-Tertiary, Oligocene breccias and volcanic units
  - Tcb - Carache Canyon collapse breccia
  - Tgb - Quartzite breccia (Cunningham Hill area & Florencio prospect)
  - Te - Espinaso Volcanics - pyroclastics, volcanioclastic sediments
  - Tdv - Dolores Gorge volcanics, vent breccia, pyroclastics, minor volcanioclastic sediments
- Tertiary Period - Paleocene and Eocene Epochs
  - Tga - Upper Galisteo Fm - sandstone
  - Tgl - Lower Galisteo Fm - redbeds, mudstone, minor sandstone & conglomerate
  - Tdt - Diamond Tail Fm - sandstone
- Cretaceous Period
  - Knb - Harmon Sandstone
  - Knf - Menefee Formation - shale, sandstone, coal
  - Kpl - Point Lookout Sandstone
  - Km - Mancos Shale, undivided
  - Kns - Niobrara Member - sandstone
  - Ko - Niobrara Member - shale
  - Kj - Juan Lopez Member - limestone
  - Kc - Carlile Member - shale
  - Kgh - Greenhorn Member - limestone
  - Kd - Dakota Formation, undivided
  - Kdc - Dakota Formation, Cubero Member - sandstone
  - Kdb - Dakota Formation, Oak Canyon Member - shale
  - Kds - Dakota Formation, Oak Canyon Member - sandstone
- Jurassic Period
  - Jm - Morrison Formation
  - Jmj - Morrison Formation, Jackpile Member - sandstone
  - Jmb - Morrison Formation, Brushy Basin Mbr - mudstone
  - Jms - Morrison Formation, Salt Wash Member - sandstone
  - Jm - Summerville Formation - sandstone
  - Jt - Todilto Formation - lacustrine evaporite and limestone
  - Jc - Entrada Formation - aeolian sandstone
- Triassic Period
  - TRc - Chime Formation - redbed mudstone, sandstone, TRca - Agua Zarca sandstone Member
  - TRm - Moenkopi Formation
- Permian Period
  - Pa - San Andres Limestone
  - Pg - Gloria Sandstone
  - Py - Yeso Formation - redbed siltstone, shale
  - Pb - Abq Formation - redbed mudstone and sandstone
  - Pay - Abq Yeso Fms - undivided

