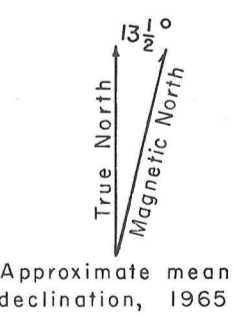
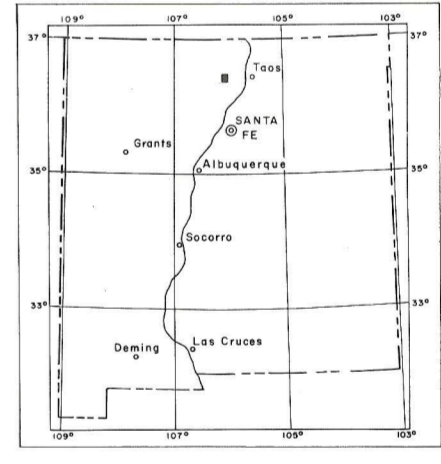


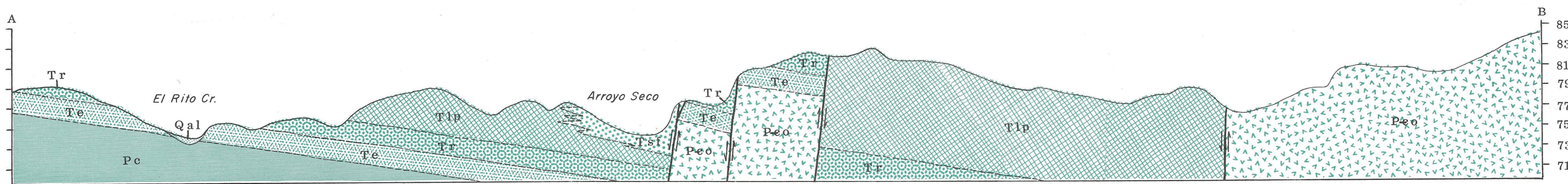


EXPLANATION

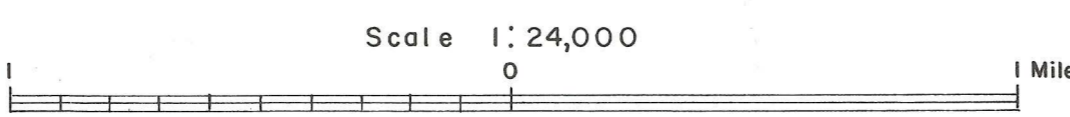
- Qal**  
Alluvium  
*Recent silt, sand, and gravel situated in alluvial valleys and mountain meadows.*
- Qg**  
Gravel  
*Unconsolidated pebble to boulder gravel capping numerous terraces in the El Rito valley. Consists largely of metamorphic and volcanic rock types. Average thickness is about ten feet.*
- UNCONFORMITY**
- Tsf**  
Santa Fe Formation  
*Reddish-brown to orange to grayish-brown, well-sorted siltstone to sandstone. Poorly consolidated except for thin beds where interbedded with luffaceous conglomerate of the Los Pinos Formation. Exposed thickness about five hundred feet.*
- Tlp** **Tlb**  
Los Pinos Formation  
*Gray, grayish-pink and grayish-brown, luffaceous conglomerate containing thin, local masses of greenish-brown amygdaloidal basalt (Tb). Conglomerate is generally poorly sorted with boulders of andesite porphyry, lillite porphyry, and rhyolite up to two feet in diameter and largely unconsolidated. Well-cemented layers and lenses of sand and luffaceous sand are present locally. Thickness is more than one thousand feet.*
- Tr**  
Ritito Conglomerate  
*Grayish-white, poorly sorted, unconsolidated conglomerate of Precambrian rock fragments, principally quartzite, grading upward and laterally into conglomerate of the Los Pinos Formation, and downward into conglomerate of the El Rito Formation. Rare, thin, well-cemented zones are present where the conglomerate rests upon Precambrian quartzite. Average thickness about five hundred feet.*
- Te**  
El Rito Formation  
*Well-cemented conglomerate of well-rounded gray-white quartzite clasts set in a brick-red matrix of hematitic quartz sand. Forms prominent cliff-like outcrops in Cañon de La Madera, Arroyo Seco, and along El Rito Creek. Average thickness two hundred feet.*
- UNCONFORMITY**
- Pc**  
Cutler Formation  
*Reddish-brown sandstone and shale. Maximum exposed thickness two hundred feet.*
- UNCONFORMITY**
- Pco**  
Ortega Quartzite  
*Grayish-white, vitreous, pebbly, cross-bedded, medium to fine-grained kyanite quartzite containing numerous thin laminae of specular hematite.*
- Contact**  
*Dashed where approximately located; dotted where buried.*
- Fault**  
*Dashed where approximately located; dotted where buried. U, upthrown side; D, downthrown side.*



Approximate mean declination, 1965



RECONNAISSANCE GEOLOGIC MAP AND SECTION OF VALLE GRANDE PEAK  
SEVEN AND ONE HALF MINUTE QUADRANGLE, NEW MEXICO



Base from United States Geological Survey  
Geology by E.C. Bingler, P. Hillard & K.H. Mallon