

EXPLANATION

- |                     |   |              |                          |
|---------------------|---|--------------|--------------------------|
|                     | Alluvium  | QUATERNARY   |                          |
|                     | Landslide deposits                                      |              |                          |
|                     | Terrace deposits  |              |                          |
|                     | Basalt flow   |              |                          |
|                     | Gravel deposits   |              |                          |
| <b>UNCONFORMITY</b> |   |              |                          |
|                     | Lewis Shale   | CRETACEOUS   |                          |
|                     | Menefee Formation                                       |              |                          |
|                     | Point Lookout Sandstone                                 |              |                          |
|                     | Mancos Shale  |              |                          |
|                     |   |              | upper shale unit         |
|                     |   |              | El Vado Sandstone Member |
|                     |   |              | middle shale unit        |
|                     |   |              | Graneros Shale Member    |
|                     | Cooper Arroyo Sandstone Member, near top of lower third |              |                          |
|                     | Juana Lopez Member                                      |              |                          |
|                     | lower shale unit  |              |                          |
|                     | Greenhorn Limestone Member                              |              |                          |
|                     | Dakota Sandstone and Burro Canyon (?) Formation         | UNCONFORMITY |                          |
|                     |   |              |                          |
|                     | Morrison Formation                                      | JURASSIC     |                          |
- UNCONFORMITY**
- Upper Jurassic**
- Lower Cretaceous**
- Upper Cretaceous**
- Mesaverde Group**
- CONTACT**  
Dashed where approximately located
- FAULT**  
Dashed where approximately located; dotted where concealed; queried where extension uncertain. Bar and ball indicate downthrown side, where known
- Strike and dip of beds**
- Horizontal beds**
- Structure contour**  
Drawn on the top of the Dakota Sandstone. Dashed where approximately located; queried where location uncertain. Contour interval 250 feet. Datum is mean sea level

Base from U.S. Geological Survey, 1955

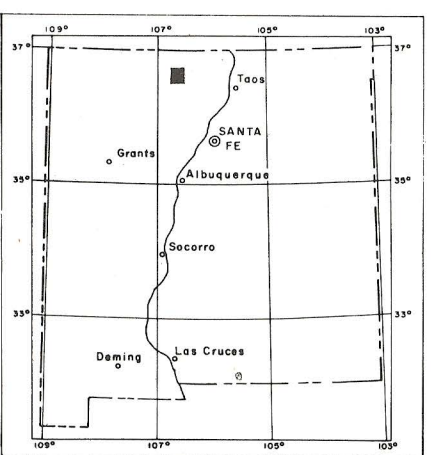
Geology mapped in 1964 - 65  
Cartography by Bob Price

**GEOLOGIC MAP OF TIERRA AMARILLA QUADRANGLE,  
RIO ARRIBA COUNTY, NEW MEXICO**

by  
Edwin R. Landis and Carle H. Dane  
(United States Geological Survey)

SCALE 1:62500  
0 1 2 3 4 Miles

TRUE NORTH  
MAGNETIC NORTH  
APPROXIMATE MEAN DECLINATION 1955



INDEX MAP OF NEW MEXICO