

**EXPLANATION**

**Recent**

- Qal Alluvium  
*Soil, sand, gravel, fan deposits, and valley fill*
- Qt Talus
- Qs Spring deposits  
*Gypsum and calcium carbonate deposited by active springs*
- Qlg3, Qlg2, Qlg1 Terrace deposits  
*Soil, sand, and gravel on stream terraces of Colorado Basin*

**Pleistocene and Recent**

- Qp Pediment gravels  
*Gravels covering pediment surface on west flank of Sierra Lucero*
- Qls Landslide deposits  
*Slide blocks and broken material resulting from landsliding*
- Qcb Cerro Verde basalt  
*Basalt flow originating from Cerro Verde crater*
- Qgc, Qgt, Qgb Gunn Mesa basalts  
*Basalt flows of Gunn Mesa, and similar basalts of same erosion level*
- Qcl Laguna del Oro basalt  
*Basalt from center west of Mesa del Oro*
- Qmb1, Qmb2, Qmb3 Mesa del Oro basalts  
*Qmb1-Qmb3 Successive basalt flows from Cerro del Oro*  
*Qmb1-Qmb3 Successive basalt flows from Cerro del Oro*  
*Qmb1-Qmb3 Successive basalt flows from Cerro del Oro*
- Qm1 Consolidated tuff-breccia
- Qsi Spring deposits  
*Banded travertine*

**Pleistocene**

- Tb Sierra Lucero basalts  
*Flows on Sierra Lucero (Pinto Mesa) and associated volcanic necks*

**INTRUSIVES**

- Ti Dikes  
*Sills and plugs of dioritic composition*

**UNCONFORMITY**

- Kmv Mesaverde group  
*Thick buff sandstones, dark shales*
- Km Mancos shale  
*Dark marl shale*
- Kth-Tes The Hermas(?) sandstone member
- Kd Dakota (?) sandstone  
*Thin buff, silty sandstone*

**UNCONFORMITY**

- Jm Morrison formation  
*Massive white crossbedded sandstone*
- Js Summerville (?) formation  
*Gray-green silty shales and thin white sandstones*
- Ja Entrada sandstone  
*White massive friable crossbedded sandstone*

**DISCONFORMITY**

- Tc Chinle formation  
*Red and purple mudstones and silty clay shales, with lenses of buff sandstone and brown limestone (blue concretionary)*

**UNCONFORMITY**

- Pa San Andres formation  
*Pa-Upper member: light-colored sandstone, gray, medium-bedded limestone, minor gypsum, gray-buff shale and sandstone of top*  
*Pa-Lower member: massive buff and gray silty shales, gypsum, and a few thin buff sandstones and thick-bedded gray limestones*
- Pgl Gorieta sandstone  
*Massive crossbedded buff sandstone*
- Py Yaso formation  
*Py-Los Valles member: gray, buff, and pink sparsiferous shales, with a few persistent dark limestone beds, much gypsum in upper half*  
*Py-Mesa Blanca sandstone member: white to olive pink friable sandstone, with a few thin layers of red-brown shale*
- Pa Aba formation  
*Pa-Upper member: light-colored sandstone, gray, medium-bedded limestone, minor gypsum, gray-buff shale and sandstone of top*  
*Pa-Lower member: red-brown shales, siltstones and thin silty red-brown sandstones*

**Bar over symbol (e.g., PaU) and black dots over formation color distinguishes areas with soil cover from outcrop areas.**

**Contact**

- Dashed where approximately located

**Fault**

- Dashed where approximately located
- U, upthrown; D, downthrown

**Anticline**

- Showing trace of axial plane and bearing and plunge of axis
- Dashed where approximately located

**Syncline**

- Showing trace of axial plane and bearing and plunge of axis
- Dashed where approximately located

**Road**

**Intermittent stream**

**Strike and dip of bed**

- ∩
- ∪
- 
- B.M.

**Windmill**

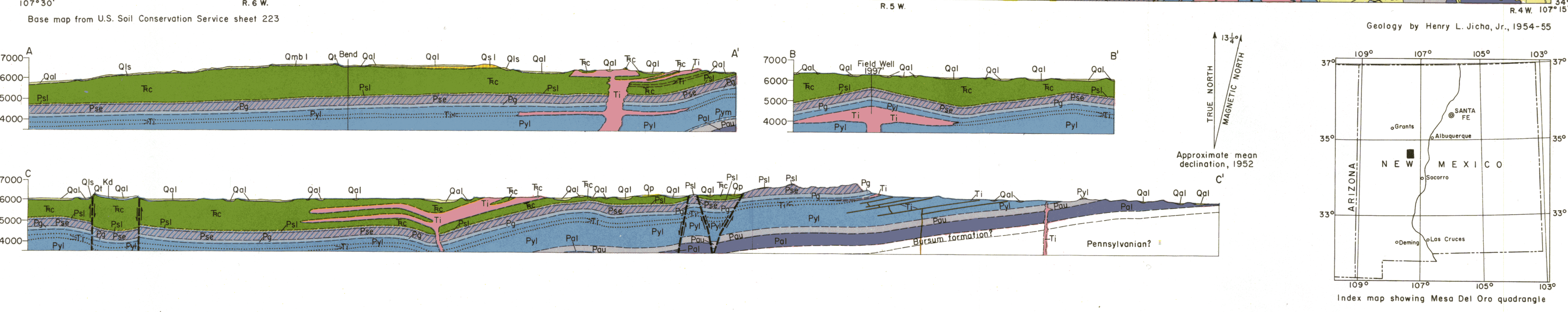
**Buildings**

**B.M.**

**Benchmark**

Geology by Henry L. Jicha, Jr., 1954-55

Index map showing Mesa del Oro quadrangle



GEOLOGIC MAP AND SECTIONS OF MESA DEL ORO QUADRANGLE, NEW MEXICO

SCALE 48000

