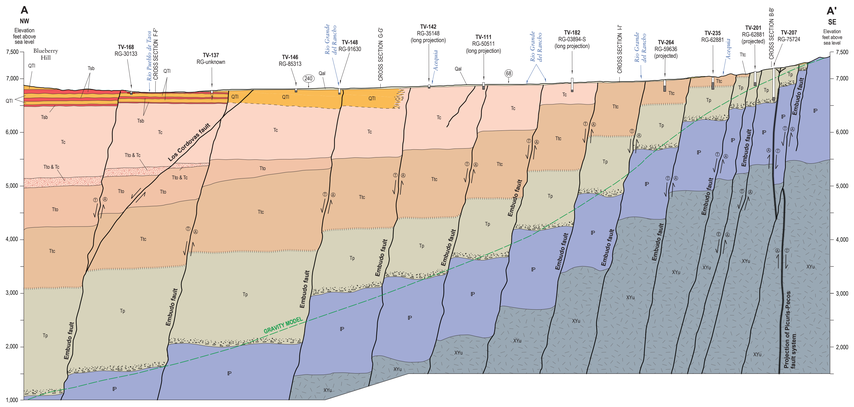
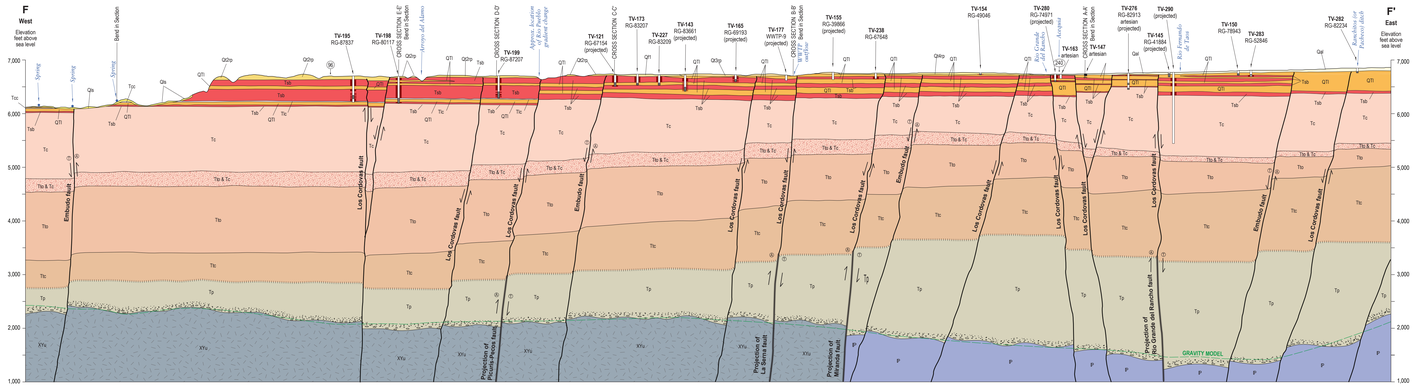
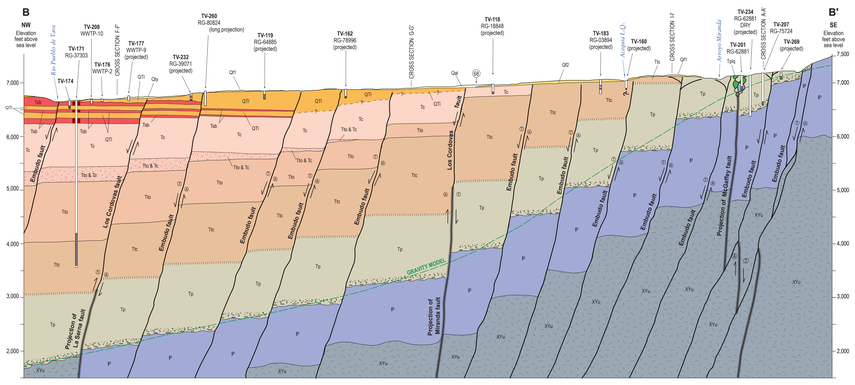
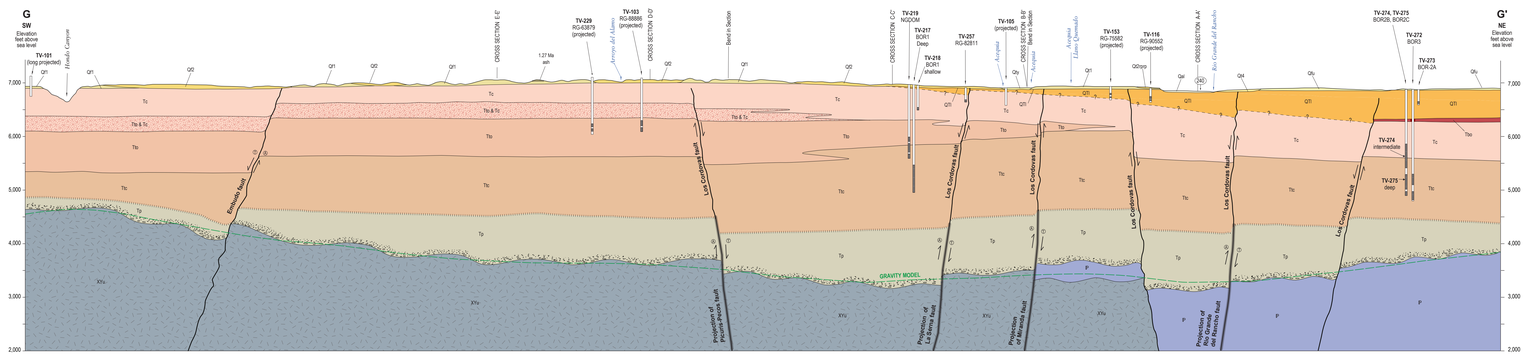
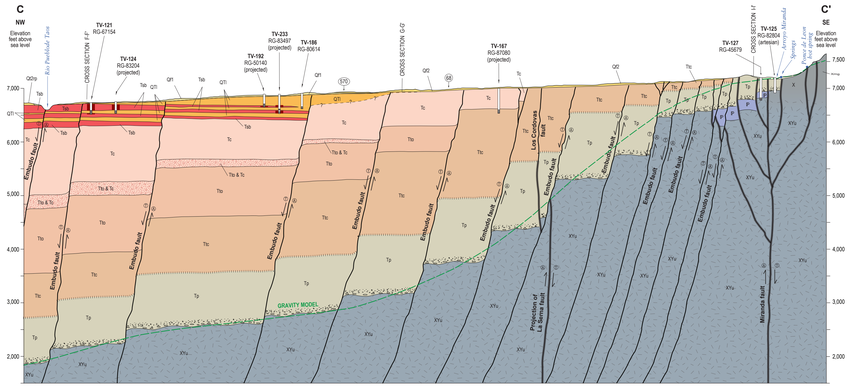
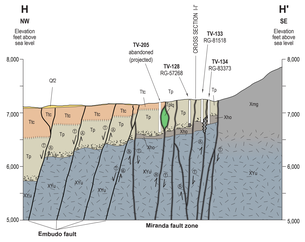


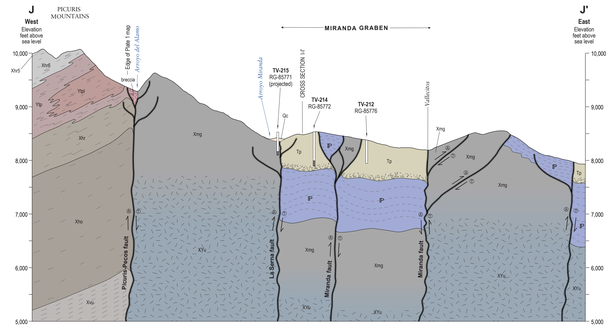


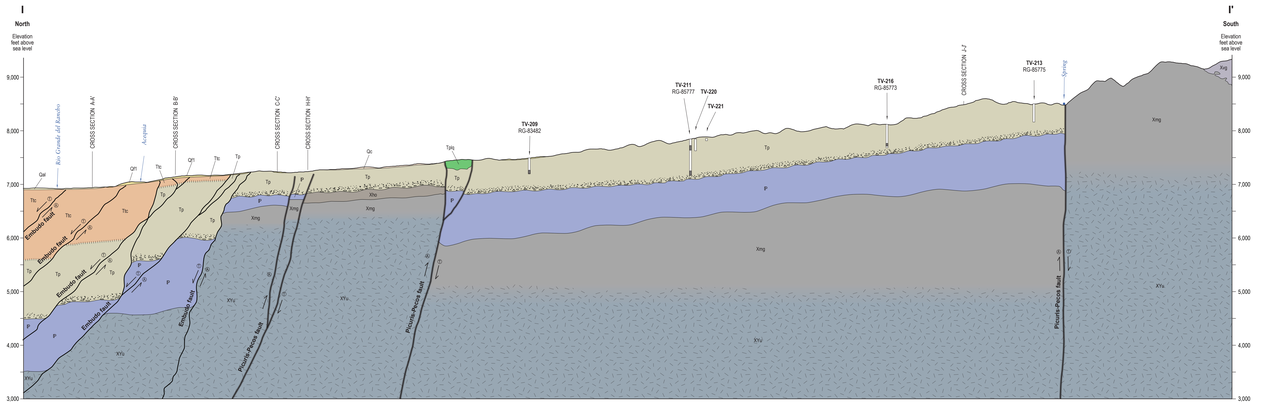


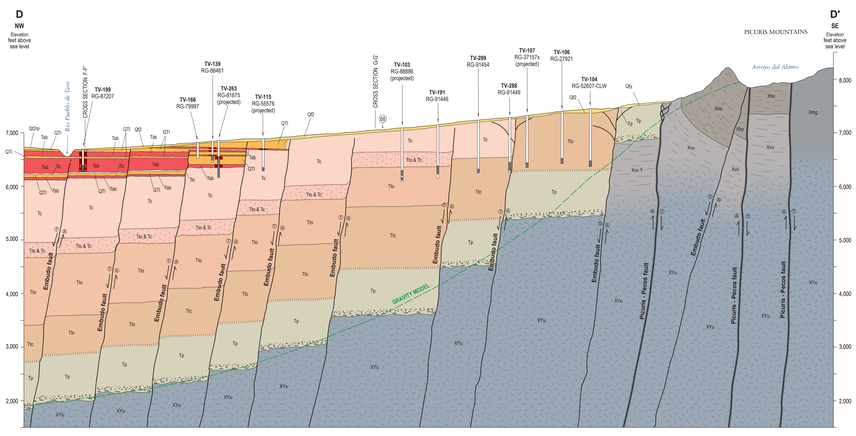


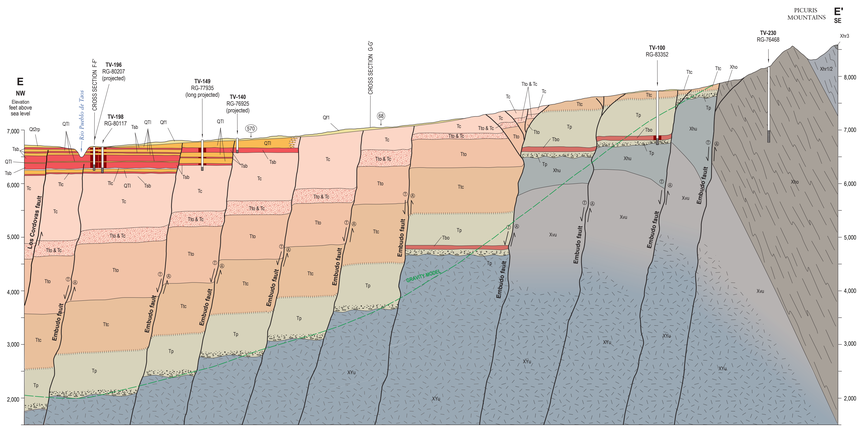












NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES

Geologic Cross Sections of the Southern Taos Valley, Taos County, New Mexico

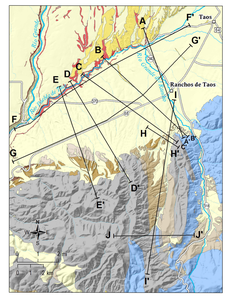
Paul W. Bauer, V.J.S. Grauch, Benjamin J. Drenth,
Peggy S. Johnson, Keith I. Kelson, and Brigitte Felix

Open-File Report 584
November 2016
Plate 2

Location

Scale 1:24,000
2X vertical exaggeration
0 1,000 meters
0 2,000 feet

GIS Support: Mark Mansell



Geologic units *(Detailed map unit descriptions are in Appendix 1)*

Cenozoic deposits and rocks

- Qal — Alluvium (latest Pleistocene and Holocene)
- Qc — Colluvium (middle Pleistocene to Holocene)
- Qls — Landslides in Rio Grande gorge and tributaries (late Pleistocene to Holocene)
- Qfy Qy — Young alluvial-fan and stream terrace deposits (latest Pleistocene to Holocene)
- QHrp — Alluvial-fan and stream terrace deposits of the Rio Pueblo de Taos and tributaries (middle? to late Pleistocene)
- QOrp — Alluvial-fan and stream terrace deposits of the Rio Pueblo de Taos and tributaries (middle to late Pleistocene)
- QO — Alluvial-fan and stream terrace deposits of the Rio Pueblo de Taos and tributaries (middle? Pleistocene)
- QO Qrp — Alluvial-fan and stream terrace deposits of the Rio Pueblo de Taos and tributaries (middle Pleistocene)
- QT1 — Alluvial-fan deposits, undivided (middle to late Pleistocene)
- Qfo — Alluvial-fan and terrace deposits, undivided (middle to late Pleistocene)
- Tsb — Servilleta Basalt (Pliocene)
- QTl — Lama formation (Pliocene to early? Pleistocene)
- Ttc — Clay, Lama formation (Pliocene)
- Tc — Chamita Formation, undivided, Santa Fe Group (Miocene? and Pliocene)
- Tto — Ojo Caliente Sandstone Member of Tesuque Formation, Santa Fe Group (Miocene)
- Ttc — Chama-El Rito Member of Tesuque Formation, Santa Fe Group (Miocene)
- Tp — Picuris formation, undivided (Oligocene to Miocene)
- Tplq — Llano Quemado Breccia member of Picuris formation (Oligocene)
- Tbo — Older basaltic rocks (Oligocene)

Paleozoic rocks

- P — Sedimentary rocks of the Taos Trough, undivided (Pennsylvanian and Mississippian)

Proterozoic rocks

- Ypl — Piedra Lumbre Formation, Trampas group (Mesoproterozoic)
- Ytp — Pilar Formation, Trampas group (Mesoproterozoic)
- Xhu — Hondo Group, undivided (Paleoproterozoic)
- Xhr — Rinconada Formation (Paleoproterozoic)
- Xhr6 — R6 schist member, Rinconada Formation (Paleoproterozoic)
- Xhr5 — R5 quartzite member, Rinconada Formation (Paleoproterozoic)
- Xhr3 — R3 quartzite member, Rinconada Formation (Paleoproterozoic)
- Xhr1/2 — R1/R2 schist member, Rinconada Formation (Paleoproterozoic)
- Xho — Ortega Formation, Hondo Group, undivided (Paleoproterozoic)
- Xmg — Miranda granite (Paleoproterozoic?)
- Xvg — Glenwoody Formation (Paleoproterozoic)
- Xvu — Vadito Group, undivided
- XYu — Proterozoic rocks, undivided (Paleoproterozoic and Mesoproterozoic)

Map symbols

- Contact
- Gradational contact between basin-fill sedimentary units
- Cenozoic fault – Arrows show sense of vertical movement
- Laramide and older fault – Arrows show sense of vertical movement
- Strike-slip fault movement, away
- Strike-slip fault movement, toward
- Line showing bottom of sedimentary basin from gravity model
- Breccia – mixed fault breccia (late Proterozoic? to Tertiary?)
- Basal boulder conglomerate of Tp
- Spring
- (240) Highway

Well key

- TV-154 / RG-83240 — NMBG database name *(Table 1)* / OSE well file number
- Well head *(actual elevation, if projected)*
- Volcanic intervals *(Ts from well record)*
- Screened interval

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STATEMAP MAPPING PROGRAM