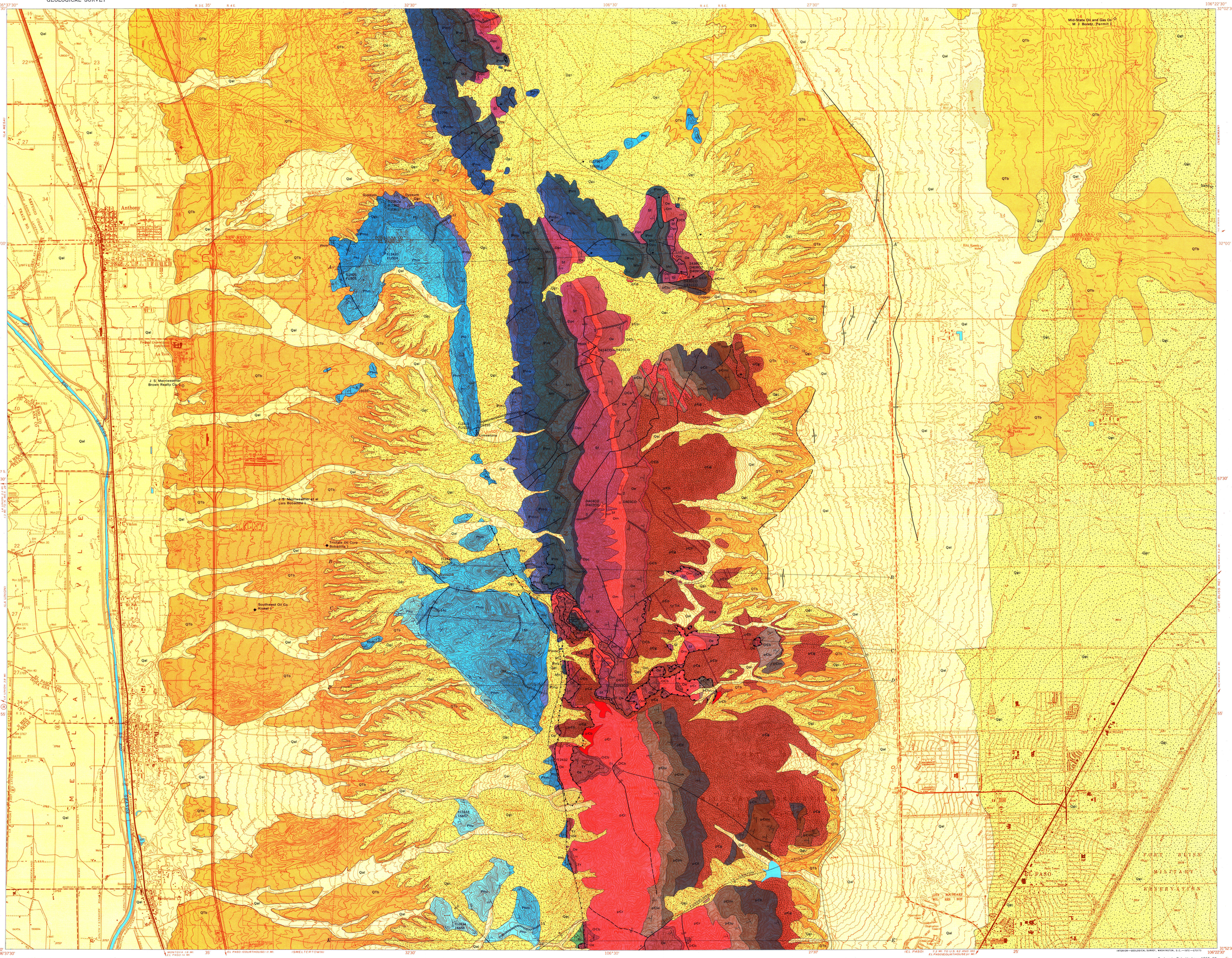

EXPLANATION

QUATERNARY — *Holocene*

- Qal — Alluvium

QUATERNARY — *Pleistocene*

- Qgc — Gravel and caliche rimrock

TERTIARY AND QUATERNARY — *Pliocene*

- QTb — Basin deposits

TERTIARY(?)

- Tf — Felsite sill

CRETACEOUS — *Lower Cretaceous*

- Kc — Conglomeratic sandstone, shale, and limestone

PERMIAN — *Lower Permian*

- Phu, Phm, Phl — Hueco Limestone
  - *Phu, upper unit*
  - *Phm, middle unit*
  - *Phl, lower unit*

PENNSYLVANIAN — *Lower, Middle, and Upper Pennsylvanian*

- IPmu, IPmbc, IPmb, IPml — Magdalena Formation
  - *IPmu, upper member*
  - *IPmbc, Bishop Cap Member*
  - *IPmb, Berino Member*
  - *IPml, La Tuna Member*

MISSISSIPPIAN — *Upper Mississippian*

- Mh — Helms Formation as used by Laudon and Bowsher (1949)
- Mrl — Rancheria Formation and Las Cruces Limestone of Laudon and Bowsher (1949)

DEVONIAN — *Middle and Upper Devonian*

- Dpc — Percha Shale, shale, marl, limestone, and chert

UNCONFORMITY

SILURIAN — *Middle Silurian*

- Sf — Fusselman Dolomite

DISCONFORMITY

ORDOVICIAN — *Middle and Upper Ordovician*

- Om — Montoya Dolomite

UNCONFORMITY

CAMBRIAN AND ORDOVICIAN — *Lower Ordovician*

- Oe — El Paso Limestone

CAMBRIAN AND ORDOVICIAN — *Upper Cambrian and Lower Ordovician*

- OCb — Bliss Sandstone

UNCONFORMITY

PRECAMBRIAN — *Upper Precambrian*

- pCz — Basic intrusive rocks
- pCg — Granite
- pCr — Extrusive rhyolite
- pCb — Granite porphyry

UNCONFORMITY

- pClu, pClm, pCll — Lanoria Quartzite
  - *pClu, upper member*
  - *pClm, middle member*
  - *pCll, lower member*

UNCONFORMITY

- pCmc — Mundy Breccia and Castner Limestone
  - *Includes diabase sills in Castner Limestone*

Line symbols dashed where approximately located and dotted where concealed

Contact

Discordant intrusive contact

High-angle normal fault
U, upthrown side; D, downthrown side

Low-angle normal fault
Arrows on downthrown side

Thrust fault
Sawteeth on upthrown side

Main Avispa thrust fault
Sawteeth on upper plate

Landslide block

Inclined 30 — Vertical — Overturned 60
Strike and dip of beds

Line and number of measured section

Line of graphic section

Iron
Mine, quarry, or prospect

D403CO
Fossil locality and USGS collection number

Abandoned oil test well

Abandoned oil test well
Approximately located

Base from U.S. Geological Survey
Anthony and Newman SW, 1955
Canutillo and North Franklin Mountain, 1955
photorevised 1967

APPROXIMATE MEAN DECLINATION, 1972

GEOLOGIC MAP OF THE NORTHERN FRANKLIN MOUNTAINS, TEXAS AND NEW MEXICO

(See plate 3 for geologic sections)

SCALE 1:24 000

1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 KILOMETERS

CONTOUR INTERVAL 20 FEET
DASHED LINES REPRESENT 5- AND 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1972—G70173

Geology by R. L. Harbour, 1955–59