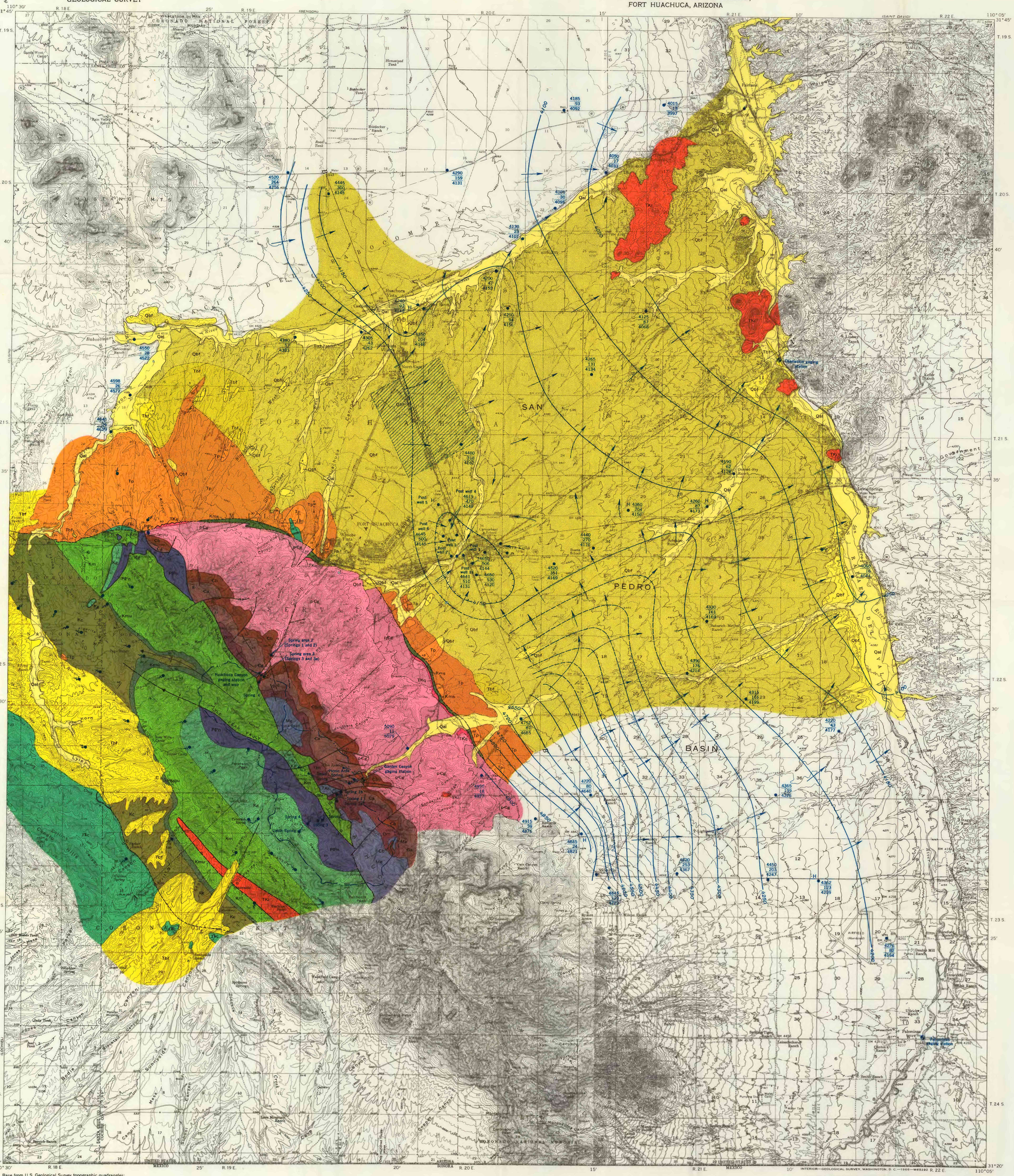
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U.S. ARMY ELECTRONIC PROVING GROUND,
FORT HUACHUCA, ARIZONA

WATER-SUPPLY PAPER 1819-D
PLATE 1



Base from U.S. Geological Survey topographic quadrangles: Huachuca, 1958; Tombstone, 1952; Sunnyside, 1958; and Hereford, 1952.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1966—W62292

Geology in central Huachuca Mountains modified from Alexis (1949, The geology of the northern part of the Huachuca Mountains, Arizona: Univ. Arizona, unpub. Ph. D. thesis)
Geology from Huachuca Mountains to Babocomari and San Pedro Rivers by E.S. Davidson and H. G. Page
Geology on west slope of Huachuca Mountains by D. W. Layton
Hydrology by S. G. Brown, 1961

EXPLANATION

QUATERNARY

- **Qal** — Stream alluvium
- **Qbf** — Upper unit of basin fill. *Stippled where concealed by terrace deposits*

TERTIARY

- **Tbf** — Lower unit of basin fill. *Stippled where concealed by terrace deposits. Includes thin deposits of upper unit of basin fill and terrace deposits in Bodie and Sunnyside Canyons*
- **Tp** — Pantano(?) Formation of Brennan (1957). *Stippled where concealed by terrace deposits*

CRETACEOUS AND TERTIARY

- **TKi** — Igneous rocks
- **TKq** — Quartz pods (along fault). *Age uncertain. Stippled where concealed by terrace deposits*

CRETACEOUS

Lower Cretaceous — Bisbee Group

- **Kc** — Cintura Formation
- **Kmu** — Mural Limestone
- **Km** — Morita Formation. *Stippled where concealed by terrace deposits*
- **Kg** — Glance Conglomerate
- **Kms** — Mudstone. *Stippled where concealed by terrace deposits*

TRIASSIC AND JURASSIC

- **JTc** — Canelo Hills Volcanics. *Stippled where concealed by terrace deposits*

CARBONIFEROUS

PENNSYLVANIAN AND PERMIAN

- **PPn** — Naco Group. *Escabrosa Limestone mapped with Naco at north end of Huachuca Mountains; stippled where concealed by terrace deposits*

MISSISSIPPIAN

- **Me** — Escabrosa Limestone

DEVONIAN

Upper Devonian

- **Dm** — Martin Limestone

CAMBRIAN

- **Ca** — Abrigo Limestone
- **Cb** — Bolsa Quartzite

PRECAMBRIAN

- **pCg** — Granite. *Stippled where concealed by terrace deposits*

Contact
Dashed where approximate; short dashed where indefinite; dotted where concealed

Fault
Showing relative movement and dip where known; dashed where approximate; short dashed where indefinite; dotted where concealed

Anticline
Showing trace of axial plane and plunge of axis; dashed where approximately located

Syncline
Showing trace of axial plane and plunge of axis; dashed where approximately located

Strike and dip of beds

Vertical beds

Overturned beds

Horizontal beds

Area recommended for prospecting for additional water supplies

4100 — Water-table contour
Shows altitude of water table in March 1961. Dashed where approximately located. Contour interval 50 feet. Datum is mean sea level.

Drainage divide

H 4260 87 4173 — Well
Upper figure shows altitude of land surface at well; middle figure shows depth to water measured in March 1961; lower figure shows altitude of water table; all figures in feet. H, hydrograph included in text

Spring

Stream-gaging station
(Operated by the U.S. Geological Survey)

Arrow indicates direction of flow of the ground water

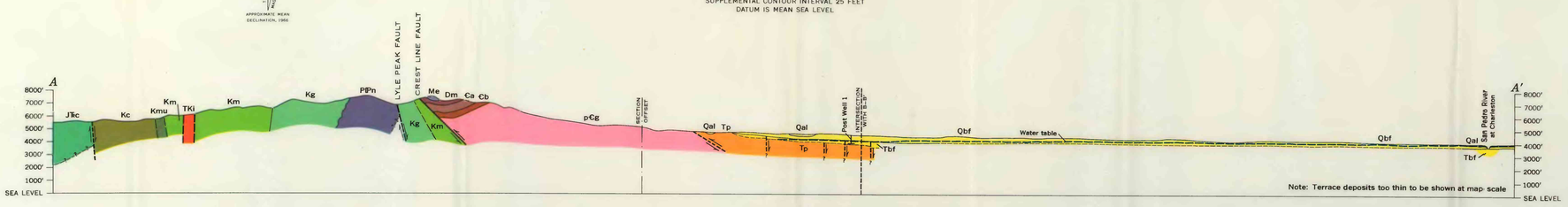
SCALE 1:62 500

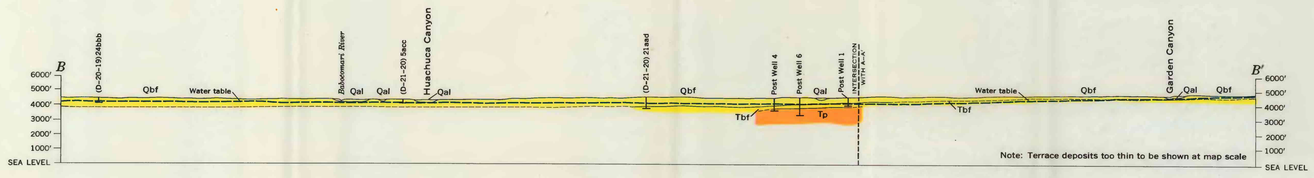
1 ½ 0 1 2 3 4 5 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 25 FEET IN EASTERN PART OF MAP AND 50 FEET IN WESTERN PART
SUPPLEMENTAL CONTOUR INTERVAL 25 FEET
DATUM IS MEAN SEA LEVEL

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1966





HYDROGEOLOGIC MAP AND SECTIONS OF THE FORT HUACHUCA AREA, ARIZONA