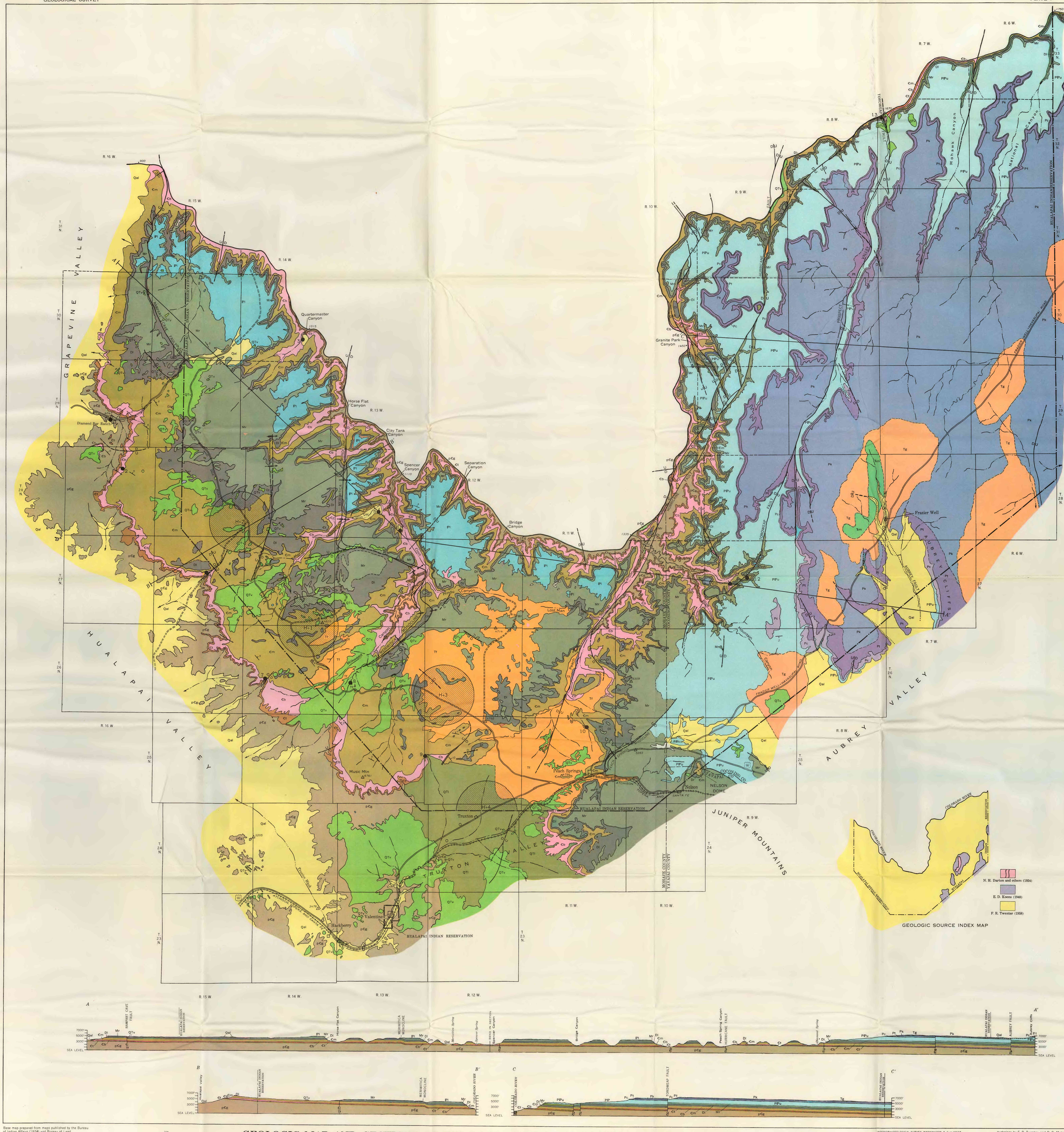
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER-SUPPLY PAPER 1576–A
PLATE 1



EXPLANATION

Qal
Alluvium
Unconsolidated gravel, sand, silt, and clay, practically non-water-bearing on Hualapai Indian Reservation; yields small amounts of water to wells along Truxton Wash
QUATERNARY

QTl
Lake beds of Truxton Valley
Semiconsolidated and consolidated clay, silt, sand, and gravel; yields moderate quantities of water to wells

QTv
Volcanic rocks
Lava and tuff; yields small quantities of water to springs and seeps
TERTIARY AND QUATERNARY

Tf
Fluvial beds of the Hindu Canyon
Semiconsolidated and consolidated clay, silt, sand, and gravel; practically non-water-bearing

Tg
Gravel
Unconsolidated and semiconsolidated gravel, sand, silt, and clay; locally yields small to moderate quantities of water to wells
TERTIARY

UNCONFORMITY

T̵Rm
Moenkopi formation
Claystone, sandstone, and gypsum in erosional remnants; non-water-bearing
TRIASSIC

UNCONFORMITY

Aubrey group

Pk
Kaibab limestone
Dense limestone with zones of chert; non-water-bearing

UNCONFORMITY

Pt
Toroweap formation
Limestone, gypsum, and sandstone; practically non-water-bearing

Pc
Coconino sandstone
Sandstone; practically non-water-bearing
PERMIAN

PPu
Hermit shale, Supai formation, and Pennsylvanian limestone (undifferentiated)
Claystone, siltstone, and sandstone; alternating units of sandstone, siltstone, and limestone at base; practically non-water-bearing

Pl
Limestone
Alternating units of sandstone, siltstone, and limestone; non-water-bearing
PENNSYLVANIAN

UNCONFORMITY

Mr
Redwall limestone
Dense crystalline limestone, contains solution channels; practically non-water-bearing
MISSISSIPPIAN

CARBONIFEROUS

UNCONFORMITY

Dl
Limestone
Dense dolomitic limestone; practically non-water-bearing
DEVONIAN

UNCONFORMITY

Tonto group

Ꞓm
Muav limestone
Dense mottled dolomitic limestone; siltstone; yields moderate to large quantities of water to springs

Ꞓb
Bright Angel shale
Micaceous claystone and siltstone, locally contains limestone in upper part; effective confining layer; locally yields small quantities of water to springs

Ꞓt
Tapeats sandstone
Quartzitic sandstone and conglomerate; yields small quantities of water to seeps
CAMBRIAN

UNCONFORMITY

pꞒg
Granite, gneiss, and schist
Locally yields small quantities of water to springs from fractures and zones of disintegrated rock
PRECAMBRIAN

Contact
Dashed where indefinite

Gradational contact

U
D
High-angle fault
Dashed where approximately located, dotted where concealed. U, upthrown side; D, downthrown side

Monocline
Dashed where approximately located; showing crest position of anticlinal flexure (upper) and trough position of synclinal flexure (lower); shorter arrows indicate steeper dips

Strike and dip of beds

Spring
Number referred to in text

Well

Promising area for development
Number refers to explanation of area given in text

Base map prepared from maps published by the Bureau of Indian Affairs (1924) and Bureau of Land Management (1954).

15°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1962

GEOLOGIC MAP AND SECTIONS OF THE HUALAPAI INDIAN RESERVATION AND ADJACENT AREA, ARIZONA

SCALE 1:125 000
2 0 2 4 6 8 10 MILES

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10338

Hydrology by F. R. Twenter and D. G. Metzger (1958)