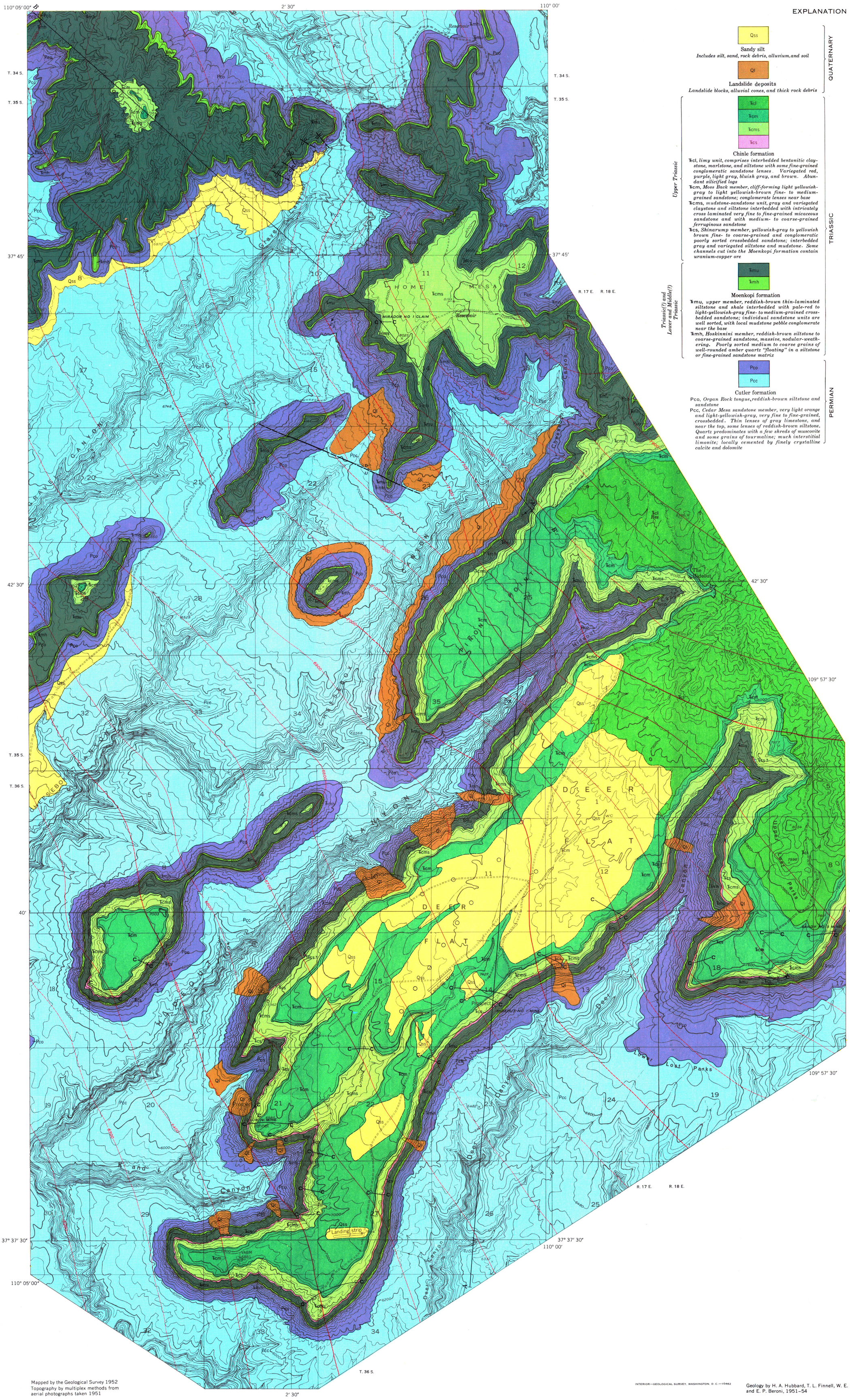


Mapped by the Geological Survey 1952
Topography by multiplex methods from aerial photographs taken 1951

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10462

Geology by H. A. Hubbard, T. L. Finnell, W. E. Benson, and E. P. Beroni, 1951–54

EXPLANATION

QUATERNARY

Qss — Sandy silt
Includes silt, sand, rock debris, alluvium, and soil

Ql — Landslide deposits
Landslide blocks, alluvial cones, and thick rock debris

TRIASSIC

Upper Triassic

Trcl, Trcm, Trcms, Trcs — Chinle formation

Trcl, *limy unit, comprises interbedded bentonitic claystone, marlstone, and siltstone with some fine-grained conglomeratic sandstone lenses. Variegated red, purple, light gray, bluish gray, and brown. Abundant silicified logs*

Trcm, *Moss Back member, cliff-forming light yellowish-gray to light yellowish-brown fine- to medium-grained sandstone; conglomerate lenses near base*

Trcms, *mudstone-sandstone unit, gray and variegated claystone and siltstone interbedded with intricately cross laminated very fine to fine-grained micaceous sandstone and with medium- to coarse-grained ferruginous sandstone*

Trcs, *Shinarump member, yellowish-gray to yellowish brown fine- to coarse-grained and conglomeratic poorly sorted crossbedded sandstone; interbedded gray and variegated siltstone and mudstone. Some channels cut into the Moenkopi formation contain uranium-copper ore*

Triassic(?) and Lower and Middle(?) Triassic

Trmu, Trmh — Moenkopi formation

Trmu, *upper member, reddish-brown thin-laminated siltstone and shale interbedded with pale-red to light-yellowish-gray fine- to medium-grained cross-bedded sandstone; individual sandstone units are well sorted, with local mudstone pebble conglomerate near the base*

Trmh, *Hoskinnini member, reddish-brown siltstone to coarse-grained sandstone, massive, nodular-weathering. Poorly sorted medium to coarse grains of well-rounded amber quartz "floating" in a siltstone or fine-grained sandstone matrix*

PERMIAN

Pco, Pcc — Cutler formation

Pco, *Organ Rock tongue, reddish-brown siltstone and sandstone*

Pcc, *Cedar Mesa sandstone member, very light orange and light-yellowish-gray, very fine to fine-grained, crossbedded. Thin lenses of gray limestone, and near the top, some lenses of reddish-brown siltstone. Quartz predominates with a few shreds of muscovite and some grains of tourmaline; much interstitial limonite; locally cemented by finely crystalline calcite and dolomite*

Contact
Dashed where approximately located; dotted where concealed

High-angle fault
Dashed where approximately located; U, *upthrown side;* D, *downthrown side*

Approximate direction and amount of apparent dip where strike is not determinable

Structure contours
Drawn on top of Hoskinnini member of Moenkopi formation; short dashes indicate projection above surface. Contour interval 100 feet

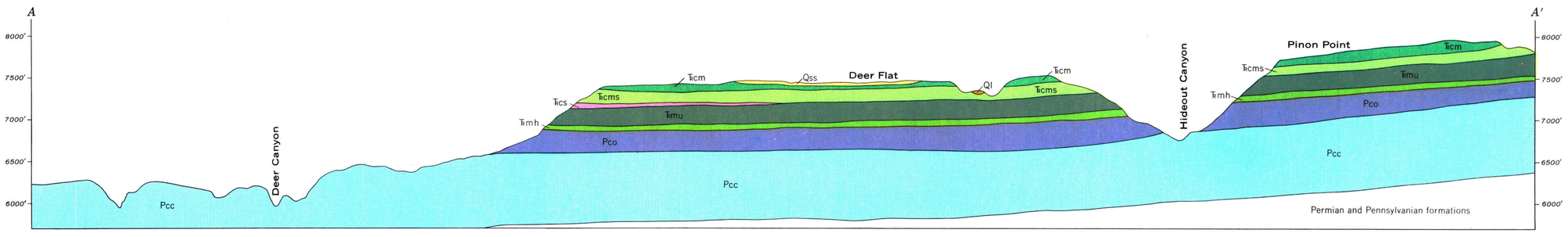
Adit

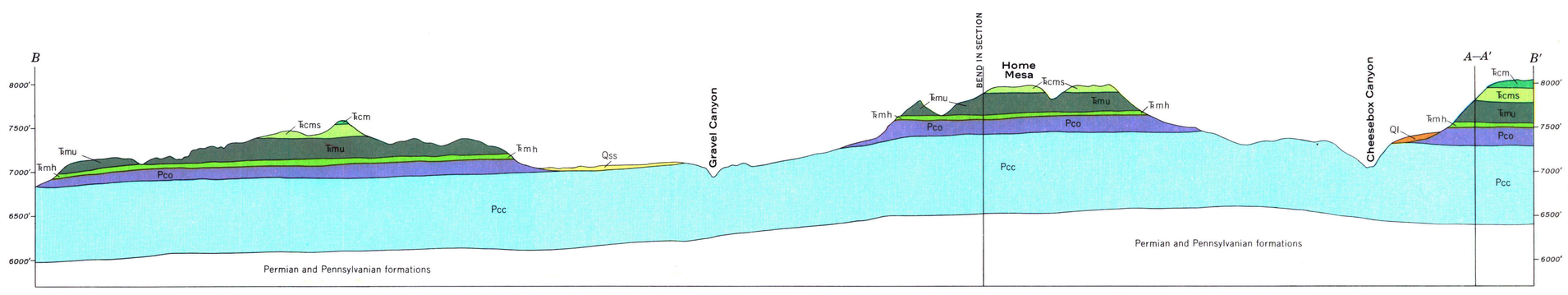
Small prospect pit or opencut

Approximate trend of channel axis

Diamond-drill hole used for structural control

15°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1961





GEOLOGIC MAP OF THE DEER FLAT AREA, WHITE CANYON DISTRICT, SAN JUAN COUNTY, UTAH

SCALE 1:24 000

1 ½ 0 1 MILE

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL