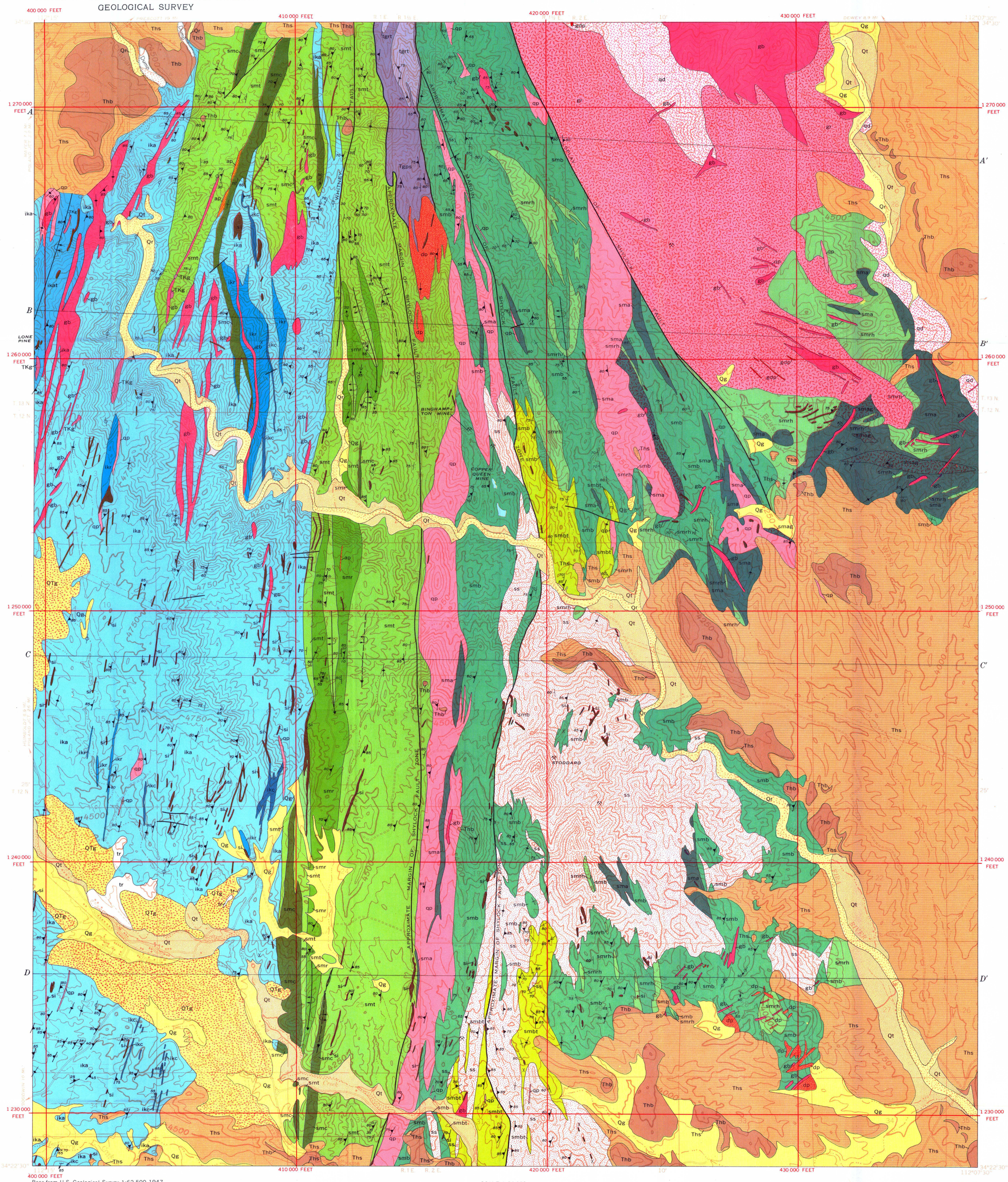



Base from U.S. Geological Survey, 1:62,500, 1947
10,000-foot grid based on Arizona coordinate system, central zone

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1972

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

Geology by C. A. Anderson 1958–62 and P. M. Blacet, 1959, 1961

## EXPLANATION

**QUATERNARY**

*Holocene*

Qr — River wash

Qt — Terrace deposits

*Pleistocene*

Qg — Younger gravels
*Contacts approximately located*

**TERTIARY OR QUATERNARY**

*Pliocene or Pleistocene*

QTg, tr — Older gravels and sand
tr, *interbedded travertine. Contacts approximately located*

**TERTIARY**

*Miocene and Pliocene*

Thb, Ths — Hickey Formation
Thb, *basaltic flows*
Ths, *conglomerate and sandstone*

**CRETACEOUS OR TERTIARY**

*Upper Cretaceous or lower Tertiary*

TKg — Granodiorite

**PRECAMBRIAN**

dp — Diorite porphyry

tgps, tgrt — Texas Gulch Formation
tgps, *purple slate*
tgrt, *rhyolitic tuff and interbedded conglomerate*

ap — Aplitic dikes

gdp — Granodiorite porphyry dikes

qd — Quartz diorite

gb — Gabbro
*Includes some gabbro younger than the quartz diorite*

qp — Quartz porphyry

gr — Granophyre

*Yavapai Series*

ika, ikr, ikc, ikat — Iron King Volcanics
ika, *andesitic and basaltic flows*
ikr, *rhyolitic tuffs and flows*
ikc, *interbedded ferruginous chert and slate*
ikat, *andesitic-rhyolitic tuffaceous rocks*

Big Bug Group

Spud Mountain Volcanics

smt, smc, smr — Upper unit
smt, *bedded andesitic tuffaceous sedimentary rocks*
smc, *interbedded ferruginous chert and slate*
smr, *rhyolitic tuff*

smb, sma, smag, smbt, smrh — Lower unit
smb, *andesitic breccia and interbedded tuffaceous sedimentary rocks*
sma, *basaltic and andesitic flows*
smag, *interbeds of andesitic agglomerate*
smbt, *thick interbeds of fine-grained tuffaceous sedimentary rocks*
smrh, *rhyolitic breccia and tuff; intrusive rhyolite*

si — Quartz lenses, pods, and veins
*Includes some recrystallized chert beds*

ss — Silicified and sericitized rocks
*Contacts approximately located*

Contact

Fault

Overturned anticline — Overturned syncline
Fold
*Showing trace of axial plane, direction of plunge, and direction of dip of limbs. Dashed where approximately located*

Anticline — Syncline — Tightly folded beds
Minor folds and plunge of axis

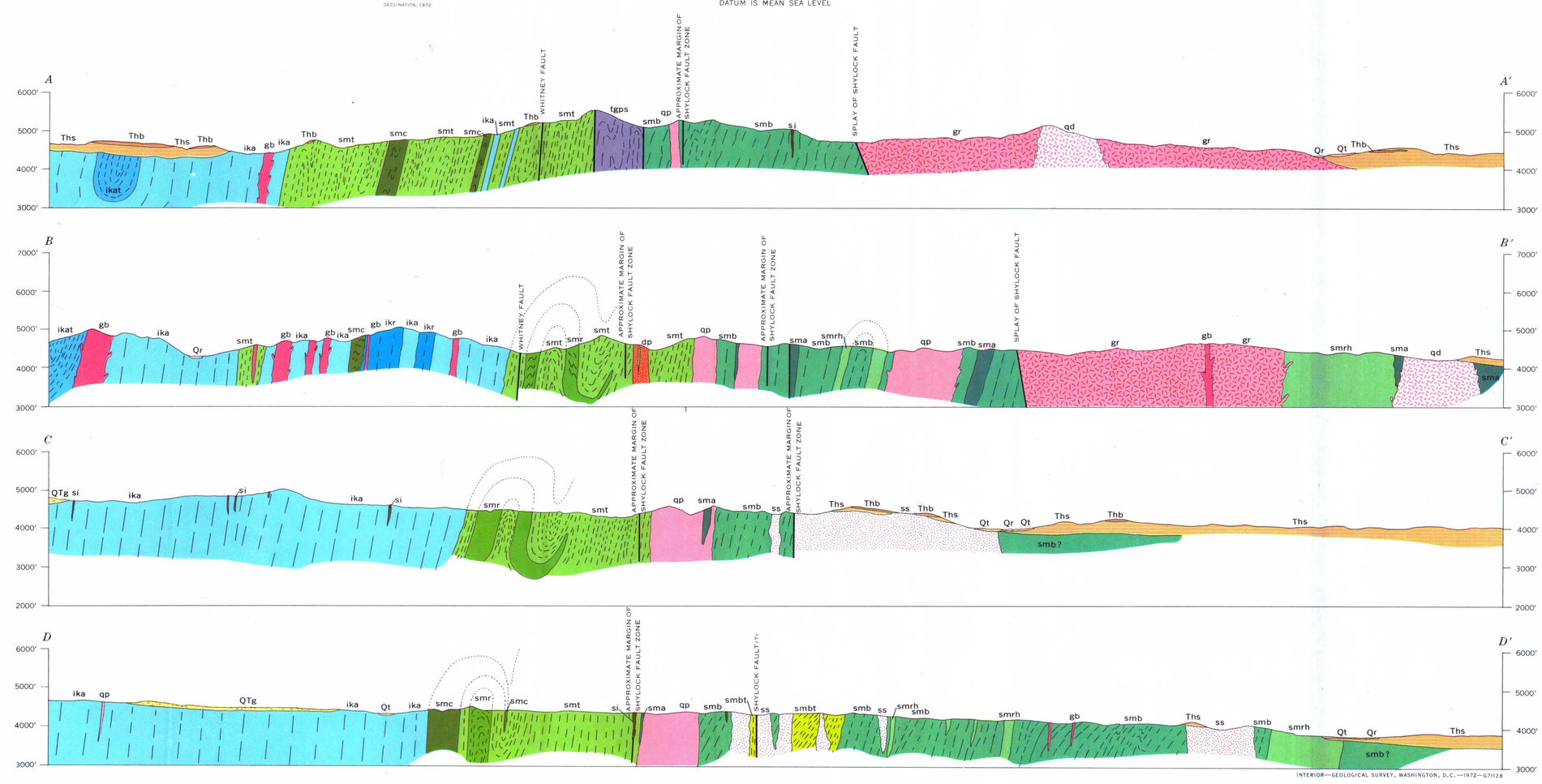
Inclined — Vertical
Strike and dip of beds

Inclined — Inclined with lineation — Vertical — Vertical with lineation
Strike and dip of foliation
*cb, intersection of cleavage and bedding*

Top of pillow structure — Top not determined
Strike of pillow structure

Mine

Prospect




# GEOLOGIC MAP OF THE NW¼ MAYER QUADRANGLE, YAVAPAI COUNTY, ARIZONA

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1972—G71128