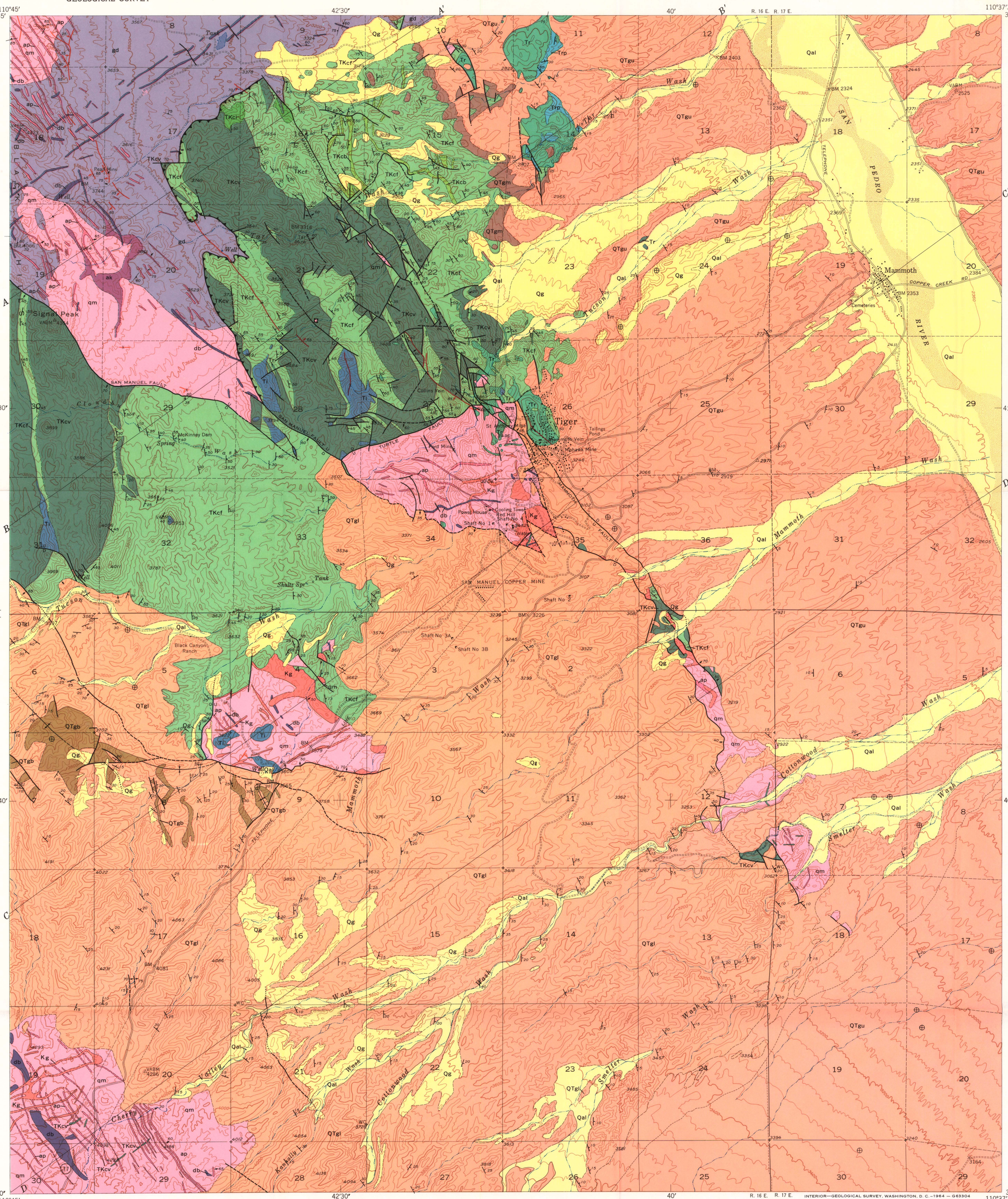


Base map by Topographic Division
U.S. Geological Survey, 1949

Geology by S. C. Creasey and
R. E. Davis, 1954–55

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964 — G63304

EXPLANATION

QUATERNARY — *Recent*

Qal — Alluvium

Qg — Gravels
Chiefly gravel veneer on pediment surface

TERTIARY AND QUATERNARY — *Pliocene and Pleistocene*

QTgu, QTgm, QTgl, QTgb — Gila Conglomerate
QTgu, *upper member, unconsolidated marls, limy silts, and gravel; basal conglomerate* (QTgm)
QTgl, *lower member, chiefly conglomerate and sandstone; interbedded sedimentary breccia* (QTgb)

TERTIARY(?)

Trp, Tr — Intrusive rhyolite
Tr, *plugs, dikes, and intrusive breccia*
Trp, *pyroclastic material; breccia, agglomerate, and tuff*

Ti — Intrusive rhyodacite

CRETACEOUS OR TERTIARY

TKci, TKcv, TKcf, TKcb — Cloudburst Formation
TKcf, *fanglomerate*
TKcv, *latite flows*
TKci, *intrusive latite*
TKcb, *sedimentary breccia in fanglomerate*

CRETACEOUS(?)

Kg — Granodiorite porphyry

PRECAMBRIAN

ap, ak — ap, *aplite*
ak, *alaskite*

db — Diabase
Includes diabase younger than granodiorite porphyry

qm — Quartz monzonite

gd — Granodiorite

Contact, showing dip
Dashed where approximately located; dotted where concealed

Fault, showing dip
Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side

Thrust or reverse fault

Syncline
Showing position of trough; dashed where approximately located

Strike and dip of beds

Strike of vertical beds

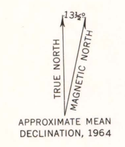
Horizontal beds

Strike and dip of foliation

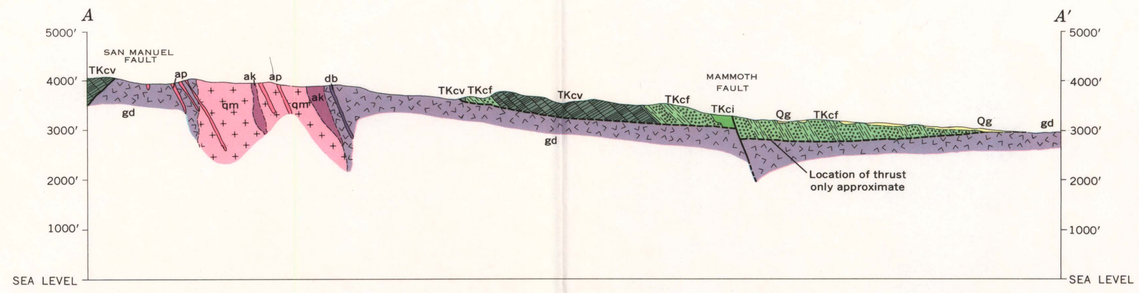
Strike of vertical foliation

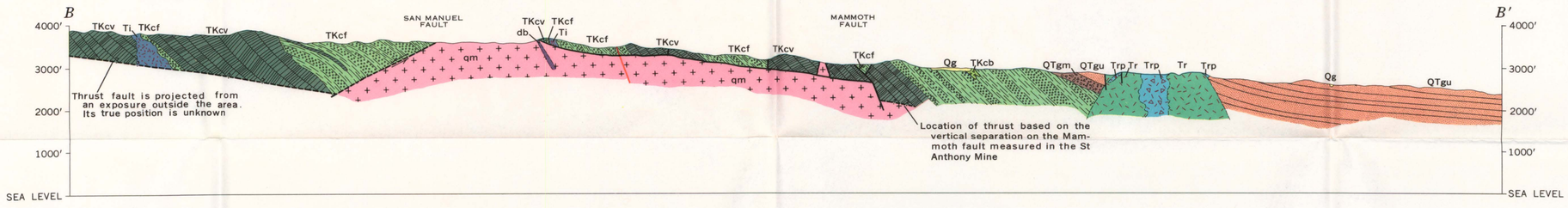
Vein, showing dip

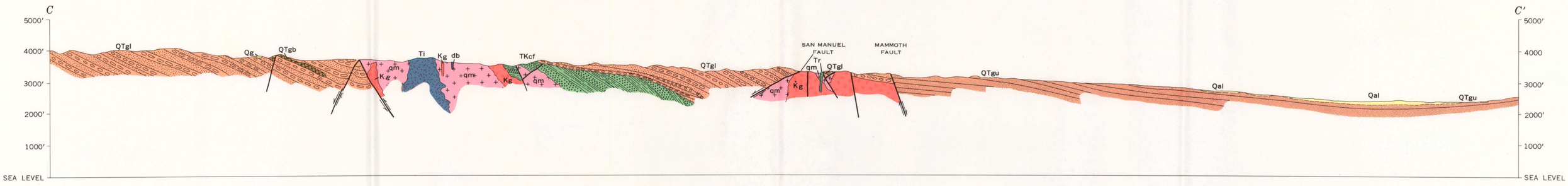
Mine or prospect

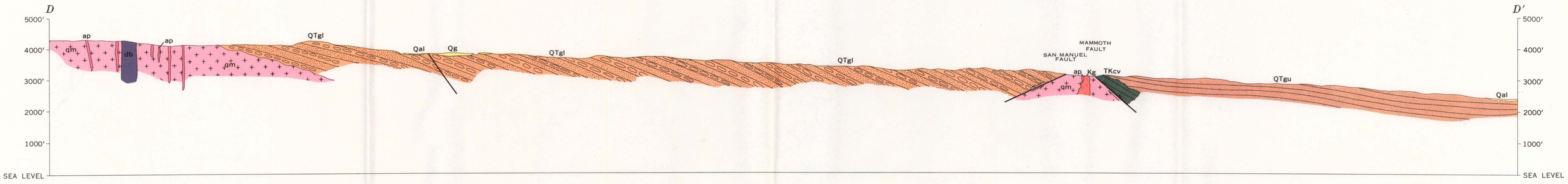


APPROXIMATE MEAN DECLINATION, 1964









GEOLOGIC MAP AND SECTIONS OF THE SAN MANUEL AREA, PINAL COUNTY, ARIZONA

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL