R14W R13W R12W

T 29 S

Brimstone Reservoir

White Mtn

Merlons Spring

Miners Hill Reservoir

Spring

TRAIL

SCALE 1:24000

1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

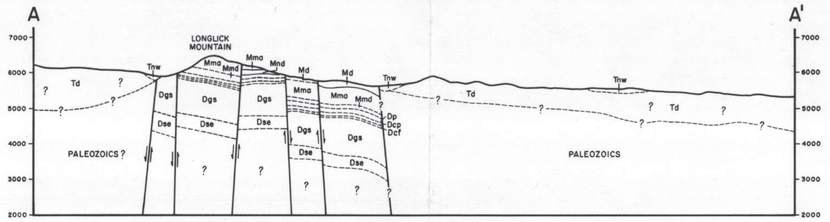
1/2 0 KILOMETER

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

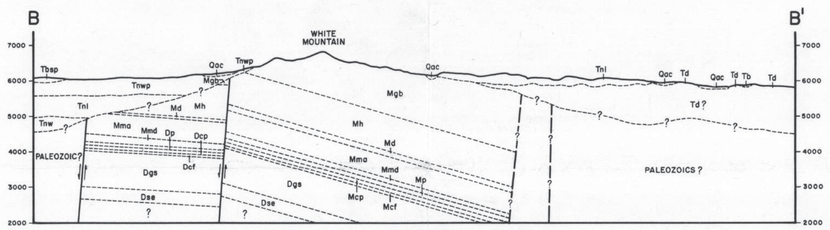
UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

UTAH
QUADRANGLE LOCATION

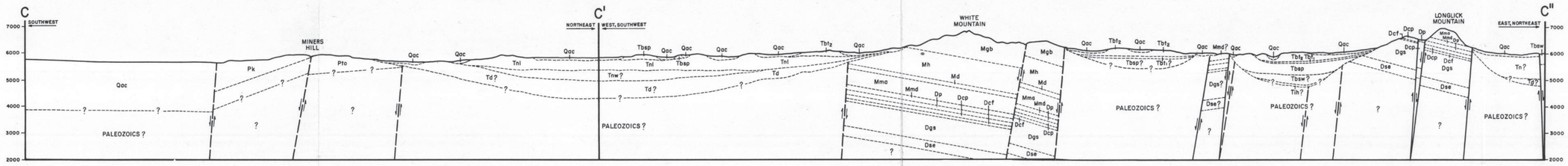
A A'



B B'



C SOUTHWEST C' NORTHEAST WEST, SOUTHWEST C'' EAST, NORTHEAST



GEOLOGICAL SYMBOLS

D U — Normal fault, dashed where inferred or approximately located, dotted where concealed, ball or D on down-thrown side.

Depositional contact, dashed where inferred or approximately located.

A A' — Line of cross section

⊕ Horizontal 26° Inclined — Strike and dip of bedding

58° — Strike and dip of foliation

GEOLOGY OF THE LONGLICK AND WHITE MOUNTAIN AREA
SOUTHERN SAN FRANCISCO MOUNTAINS
BEAVER COUNTY, UTAH

DAN E. HAYMOND
1980

EXPLANATION

QUATERNARY — PLEISTOCENE-HOLOCENE

Qac ALLUVIAL COVER
Unconsolidated valley fill, colluvium, slope talus

UNCONFORMITY

TERTIARY

MIOCENE — FORMATION OF BLAWN WASH

Tb FORMATION OF BRIMSTONE RESERVOIR
Black, dense, vesicular at base; becoming more dense upward in unit.

UNCONFORMITY

Tbr RHYOLITE FLOW MEMBER
Grayish-red to pale brown; basal portion contains pale olive vitrophyre; flowbanded, plagioclase, biotite, quartz, phenocrysts.

Tbf_2 ASH-FLOW TUFF UPPER MEMBER
Grayish-pink to moderate orange-pink; very pumiceous, poorly welded, lithic fragments, quartz, sanidine, plagioclase, biotite phenocrysts.

Tbm MAFIC FLOW MEMBER
Dark reddish-brown to brownish-gray, plagioclase and pyroxene phenocrysts, weathers with liesegang bands.

Tbf_1 ASH-FLOW TUFF LOWER MEMBER
Very pale orange to pale red, densely welded; displays conchoidal-like-fracture; minor lithic fragments, plagioclase and biotite phenocrysts.

Tbsp QUARTZ LATITE OF SQUAW PEAK MEMBER
Pale red-purple to grayish-purple; zoned andesine, embayed quartz, augite, biotite, phenocrysts.

Tbsw TUFF OF SEVEY'S WELL MEMBER
Moderate orange pink to very pale orange pumiceous, lithic and crystal fragments, quartz, plagioclase, biotite, hornblende, phenocrysts.

UNCONFORMITY

OLIGOCENE — ISOM FORMATION

Tih HOLE-IN-THE-WALL MEMBER
Grayish-red to dusky-red; plagioclase, magnetite, and quartz phenocrysts; densely welded.

UNCONFORMITY

NEEDLES RANGE FORMATION — **Tn**

Tnwp WALLACES PEAK TUFF MEMBER
Brownish-gray to grayish-red; quartz (1-2%), plagioclase (20-25%), biotite (3-5%), hornblende (4-5%), phenocrysts, abundant lithic clasts.

Tnl LUND TUFF MEMBER
Pale red to moderate red; abundant quartz (5-10%), plagioclase (25-30%), biotite (5-6%) hornblende (3-49%), phenocrysts.

Tnw WAH WAH SPRINGS TUFF MEMBER
Moderate red to grayish red, conspicuous hornblende (7-10%), plagioclase (25-30%), biotite (3-5%), phenocrysts.

UNCONFORMITY

Td DACITE OF SHAUNTIE HILLS
Dark reddish-brown to brownish-gray, plagioclase and pyroxene phenocrysts, weathers with liesgang bands.

UNCONFORMITY

PERMIAN

Pk KAIBAB LIMESTONE
Medium gray to gray, bioclastic limestone, dolomite, abundant chert nodules and bryozoa.

Pt TOROWEAP LIMESTONE
Light gray to medium gray, dolomitic sandstone, cherty limestone, fossiliferous limestone; abundant bryozoa.

UNCONFORMITY

MISSING INTERVAL NO OUTCROPS

UNCONFORMITY

MISSISSIPPIAN

Mg GREAT BLUE LIMESTONE
Gray to light gray, bioclastic and pelleted limestone; tan to brown, sandstone and siltstone.

Mh HUMBUG FORMATION
Tan to medium gray; limestone, dolomite and sandstone units.

Md DESERET LIMESTONE
Medium gray to gray, coarse-grained, crinoidal limestone; abundant black chert.

LOWER MONTE CRISTO LIMESTONE — **Mm**

Mma ANCHOR-THUNDER SPRING MEMBER
Medium gray to gray, medium grained, limestone and dolomite, abundant interbedded chert and chert nodules, abundant coral.

Mmd DAWN-WHITMORE WASH MEMBER
Medium gray to dark gray, medium-grained, sandy dolomite; abundant coral.

UNCONFORMITY

DEVONIAN

Dp PINYON PEAK LIMESTONE
Gray to tan, medium-grained, medium-bedded sandy dolomite.

Dcp CRYSTAL PASS LIMESTONE
Light gray to gray, fine-grained, medium-bedded, lithographic limestone, contains tan-gray to tan, medium-grained, cross-bedded sandstone units in the upper part.

Dcf COVE FORT QUARTZITE
White to tan, coarse-grained, sandstone.

UNCONFORMITY

Dgs GUILMETTE-SIMONSON DOLOMITE
Dark gray to medium gray, dolomite; upper part contains white tan sandstone units.

Dse SEVY DOLOMITE
Light gray, fine-grained, massive to medium bedded, dolomite.

LOWER MONTE CRISTO LIMESTONE UNDIVIDED