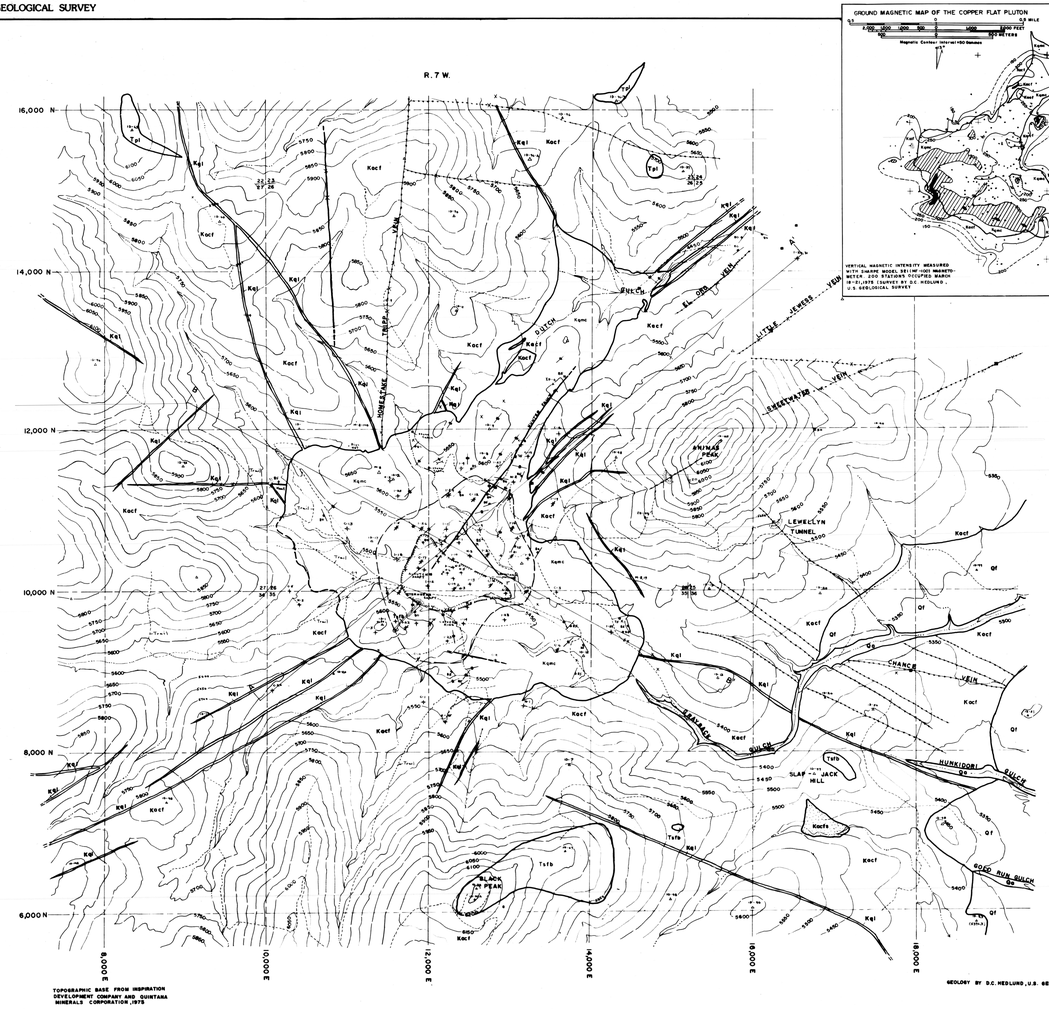


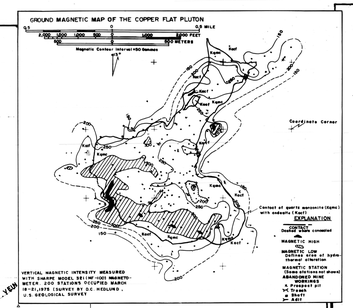
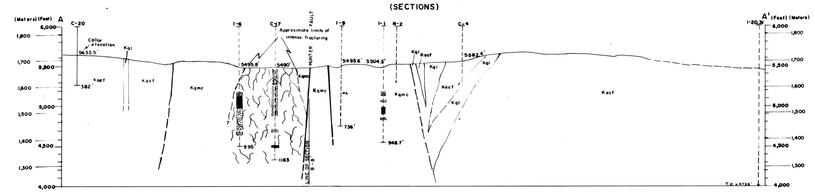
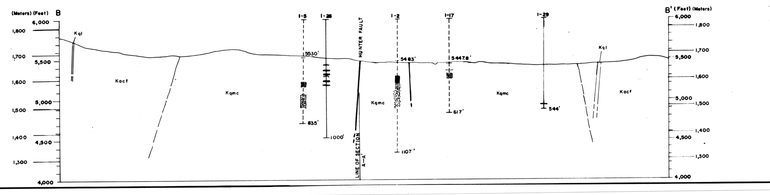


PLATE 2

GEOLOGIC AND GROUND MAGNETIC MAPS AND STRUCTURE SECTIONS OF THE COPPER FLAT STOCK, SIERRA COUNTY, NEW MEXICO

(SECTIONS)



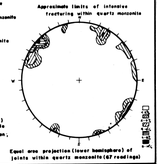


EXPLANATION

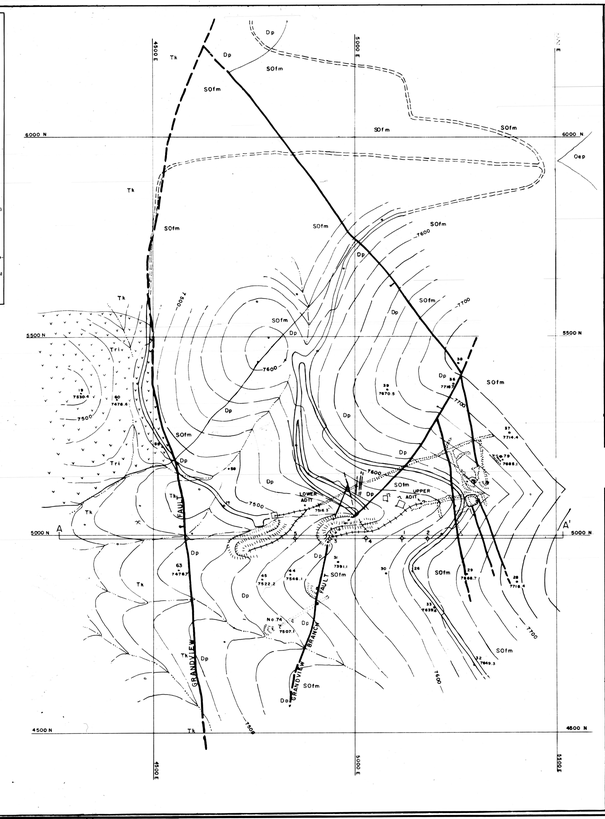
Qa — Alluvium — Holocene — QUATERNARY
Qf — Fan deposits
UNCONFORMITY
Tsfb — SANTA FE FORMATION — Basaltic andesite flows and dikes — Pliocene and/or Miocene (?)
UNCONFORMITY
Tpl — POLLACK QUARTZ LATITE (?) — Oligocene
UNCONFORMITY
Kqd, Quartz latite dikes and plugs
Kqmc, Quartz monzonite of Copper Flat
Kscfs
Kacf, Andesite of Copper Flat
Kscfs, Sandstone of Copper Flat
— Upper Cretaceous — CRETACEOUS

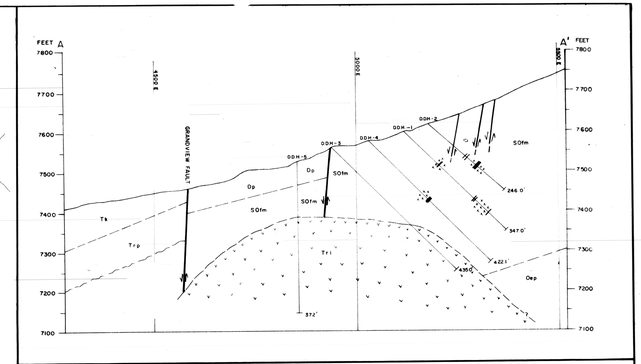
CONTACT — Dashed where concealed
FAULT — Showing dip where known
Strike and dip of flow layering in andesite
Strike and dip of foliation in quartz monzonite
Inclined Vertical
Strike and dip of joints in quartz monzonite and older andesite
VEIN — Showing dip where known, Dashed where approximately located
ABANDONED MINE WORKINGS
Prospect pit
Trench
Shaft
Adit
Drill hole (all holes not shown)
Mineralized core from drill hole
Drill hole in section (I, Inspiration; C, Bear Creek; N, Nuevomex)
Copper 0.2-0.5%
Copper 0.5-1.2%

Approximate limits of copper mineralization within Copper Flat
Approximate limits of intensive fracturing within quartz monzonite



Equal area projection (lower hemisphere) of joints within quartz monzonite (67 readings)





EXPLANATION

Tk, Kneeling Nun Tuff
Tri, Rhyolite porphyry plug — Oligocene — TERTIARY
Trp, Rubio Peak Formation (in section only)
Dp, Percha Shale — DEVONIAN
SOfm, Fusselman-Montoya Group, undifferentiated — SILURIAN
Oep, El Paso Formation — ORDOVICIAN

CONTACT
FAULT — Dashed where inferred. Bar and ball on down-thrown side
STRIKE AND DIP OF BEDS
MINERALIZED ROCK
TACTITE
Prospect pit
Adit
Shaft
Mine waste
Mine workings in subsurface
Caved mine workings
7287 Survey station
Drill hole site (U.S. Bureau of Mines)
Buried rig
Road

Topography and drill hole data from R.L. Griggs and S.P. Gillues, 1943, U.S. Geological Survey Open File Map and from R.S. Hill, 1946, U.S. Bureau of Mines Rept of Inv. 3924. Geology by D.C. Hedlund, 1974, U.S. Geological Survey

0 50 100 200 300 400 FEET
0 10 20 30 60 90 METERS
CONTOUR INTERVAL 20 FEET

GEOLOGIC MAP AND SECTION OF THE GRANDVIEW MINE AREA, CARPENTER DISTRICT, GRANT COUNTY, NEW MEXICO

PLATE 8

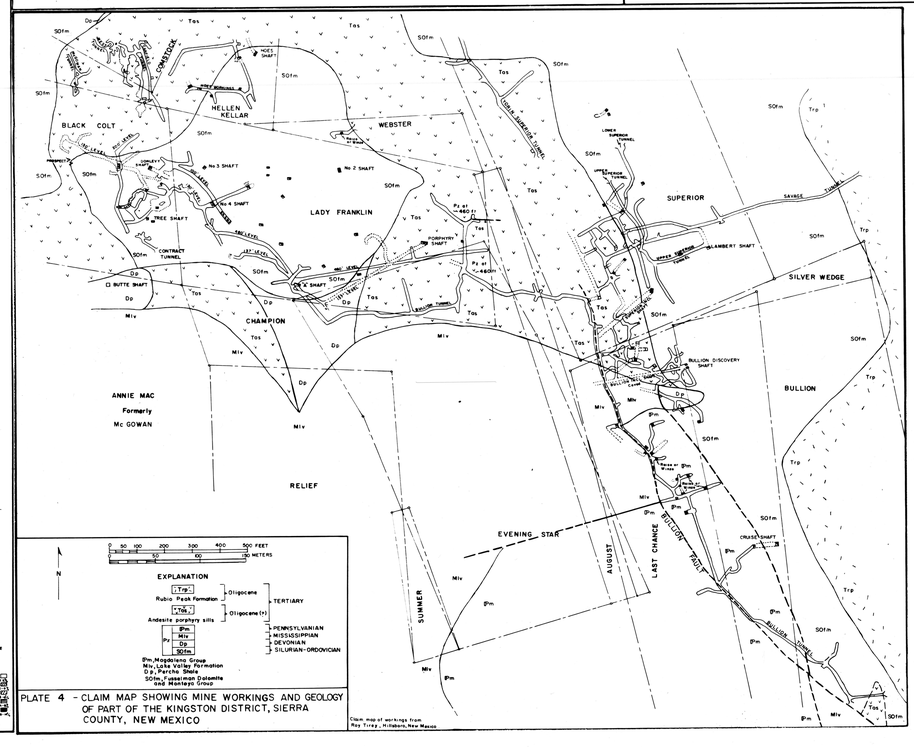


PLATE 4 - CLAIM MAP SHOWING MINE WORKINGS AND GEOLOGY OF PART OF THE KINGSTON DISTRICT, SIERRA COUNTY, NEW MEXICO

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.