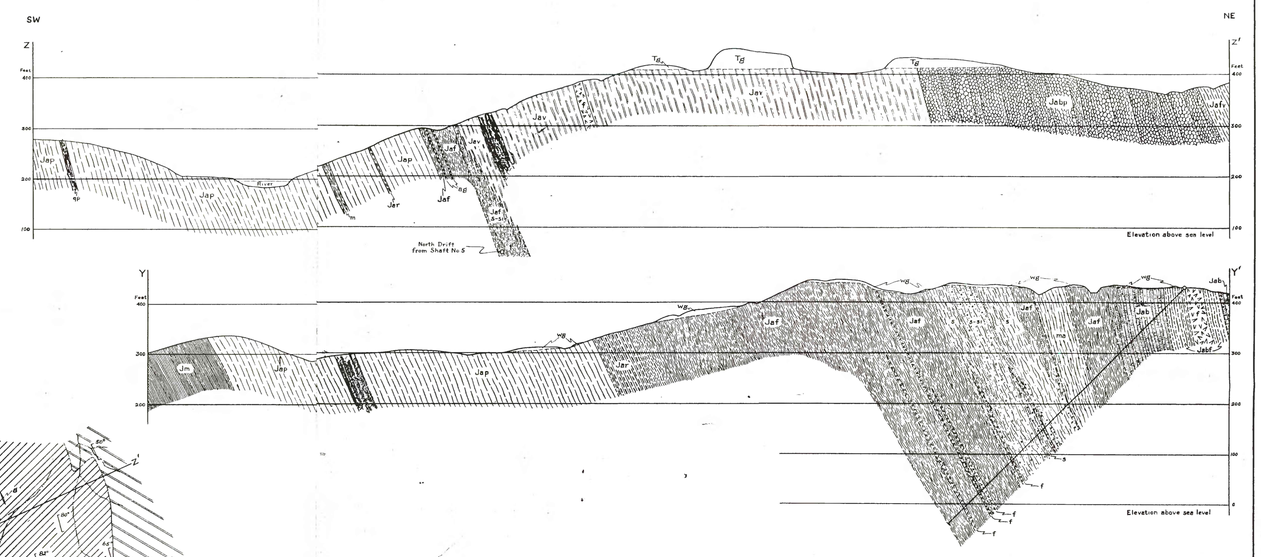
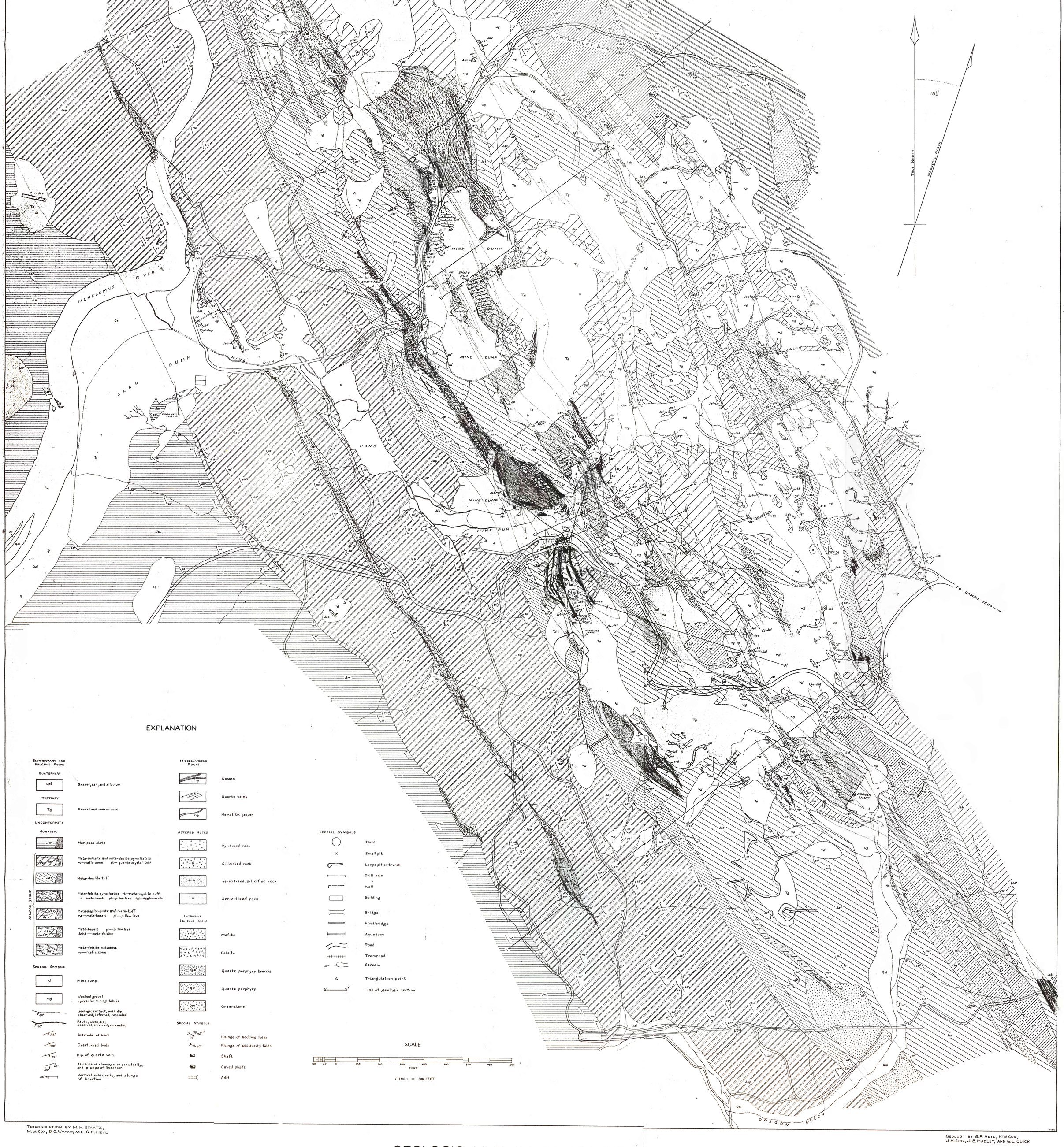
45-51

PLATE 4



GEOLOGIC SECTIONS



EXPLANATION

SEDIMENTARY AND VOLCANIC ROCKS

QUATERNARY

- Qal — Gravel, ash, and alluvium

TERTIARY

- Tg — Gravel and coarse sand

UNCONFORMITY

JURASSIC

- Jm — Mariposa slate
- Jab — Meta-andesite and meta-dacite pyroclastics; m—mafic zone; ct—quartz crystal tuff
- Jaf — Meta-rhyolite tuff
- Jafv — Meta-felsite pyroclastics; rt—meta-rhyolite tuff; ma—meta-basalt; pl—pillow lava; ag—agglomerate

AMADOR GROUP

- Jav — Meta-agglomerate and meta-tuff; ma—meta-basalt; pl—pillow lava
- Jabf — Meta-basalt; pl—pillow lava; Jabf—meta-felsite
- Jafv — Meta-felsite volcanics; m—mafic zone

SPECIAL SYMBOLS

- d — Mine dump
- wg — Washed gravel, hydraulic mining debris
- Geologic contact, with dip; observed, inferred, concealed
- Fault, with dip; observed, inferred, concealed
- Attitude of beds
- Overturned beds
- Dip of quartz vein
- Attitude of cleavage or schistosity, and plunge of lineation
- Vertical schistosity, and plunge of lineation

MISCELLANEOUS ROCKS

- Gossan
- Quartz veins
- Hematitic jasper

ALTERED ROCKS

- Pyritized rock
- Silicified rock
- Sericitized, silicified rock
- Sericitized rock

INTRUSIVE IGNEOUS ROCKS

- mf — Mafite
- Felsite
- qpb — Quartz porphyry breccia
- qp — Quartz porphyry
- gs — Greenstone

SPECIAL SYMBOLS

- Plunge of bedding folds
- Plunge of schistosity folds
- Shaft
- Caved shaft
- Adit

SPECIAL SYMBOLS

- Tank
- Small pit
- Large pit or trench
- Drill hole
- Wall
- Building
- Bridge
- Footbridge
- Aqueduct
- Road
- Tramroad
- Stream
- Triangulation point
- X — X' — Line of geological section

SCALE

100 50 0 100 200 300 400 500 600 700 800 FEET

1 INCH = 100 FEET

TRIANGULATION BY M. H. STAATZ, M. W. COX, D. G. WYANT, AND G. R. HEYL

GEOLOGY BY G. R. HEYL, M. W. COX, J. H. ERIC, J. B. HADLEY, AND G. L. QUICK

GEOLOGIC MAP OF PENN MINE AREA CALAVERAS AND AMADOR COUNTIES CALIFORNIA