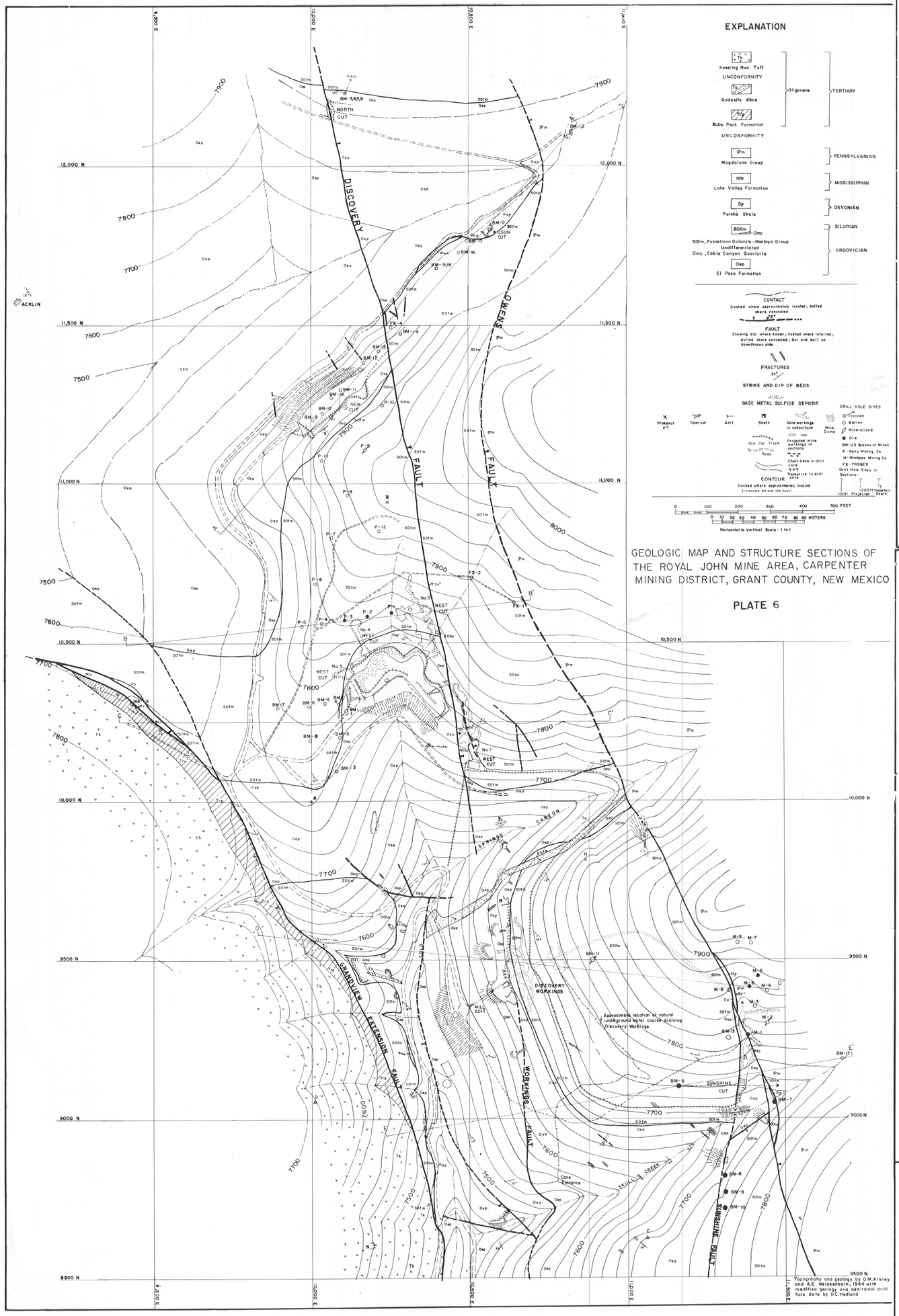


EXPLANATION

- Tk — Kneeling Nun Tuff — UNCONFORMITY
- Tg — Andesite dikes — Oligocene — TERTIARY
- Trg — Rubio Peak Formation — UNCONFORMITY
- Pm — Magdalena Group — PENNSYLVANIAN
- MN — Lake Valley Formation — MISSISSIPPIAN
- Dp — Percha Shale — DEVONIAN
- 50fm — Omc — 50fm, Fusselman Dolomite - Montoya Group Undifferentiated; Omc, Cable Canyon Quartzite — SILURIAN, ORDOVICIAN
- Oep — El Paso Formation

CONTACT — Dashed where approximately located, dotted where concealed

FAULT — Showing dip where known; dashed where inferred; dotted where concealed; Bar and ball on downthrown side

FRACTURES

STRIKE AND DIP OF BEDS

BASE METAL SULFIDE DEPOSIT

Prospect pit; Open cut; Adit; Shaft; Mine workings in subsurface; Mine Dump; Ore Car Track; Road; Projected mine workings in sections; Chert beds in drill core; Tremolite in drill core

CONTOUR — Dashed where approximately located (intervals 20 and 100 feet)

DRILL HOLE SITES — Inclined; Barren; Mineralized; Ore

BM-U.S. Bureau of Mines
P - Peru Mining Co.
M - Mimbres Mining Co.
FX - FROBEX
Drill Hole Sites in Sections

100ft Projected; 1200ft Inclination; Depth

0 100 200 300 400 500 FEET
0 10 20 30 40 50 60 70 80 90 METERS
Horizontal to Vertical Scale: 1 to 1

GEOLOGIC MAP AND STRUCTURE SECTIONS OF THE ROYAL JOHN MINE AREA, CARPENTER MINING DISTRICT, GRANT COUNTY, NEW MEXICO

PLATE 6

Topography and geology by D.M.Kinney and A.E. Weissenborn, 1944 with modified geology and additional drill hole data by D.C.Hedlund

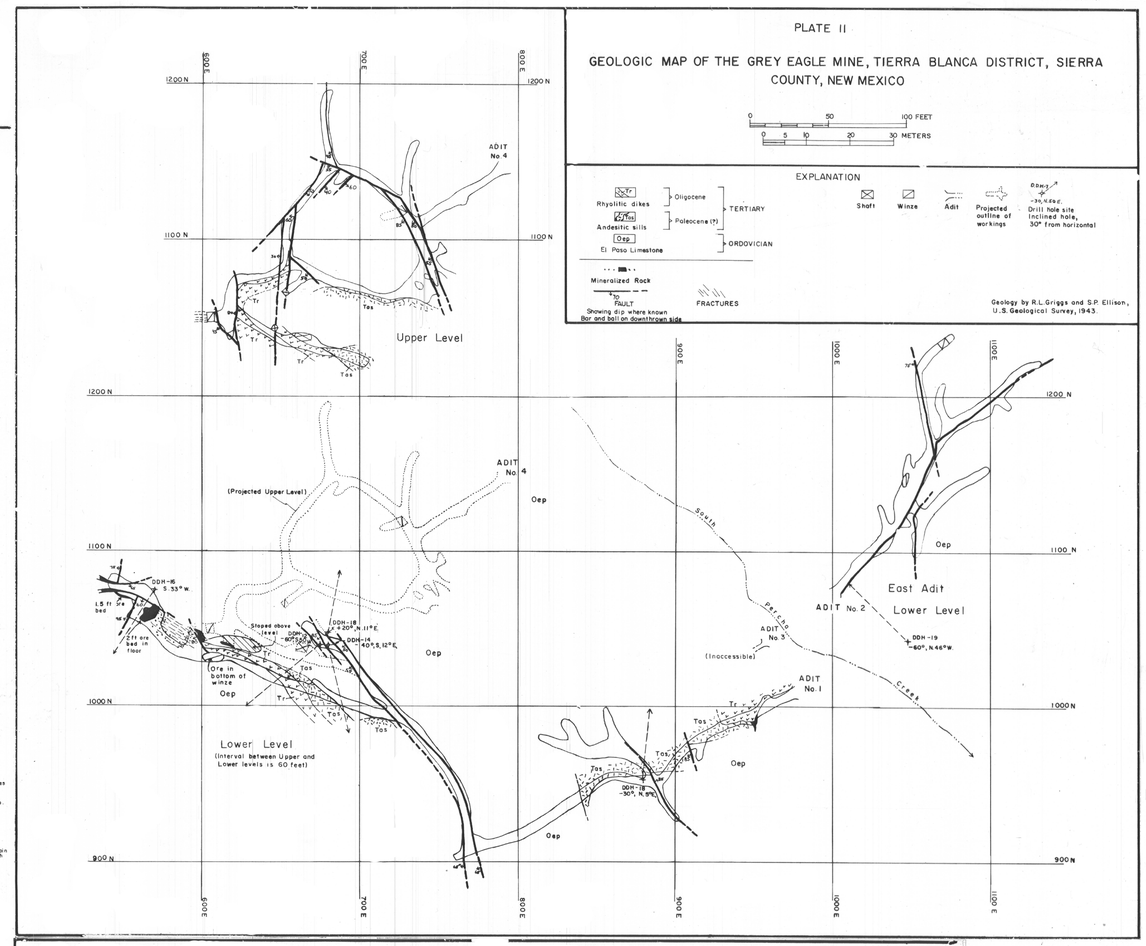


PLATE 11

GEOLOGIC MAP OF THE GREY EAGLE MINE, TIERRA BLANCA DISTRICT, SIERRA COUNTY, NEW MEXICO

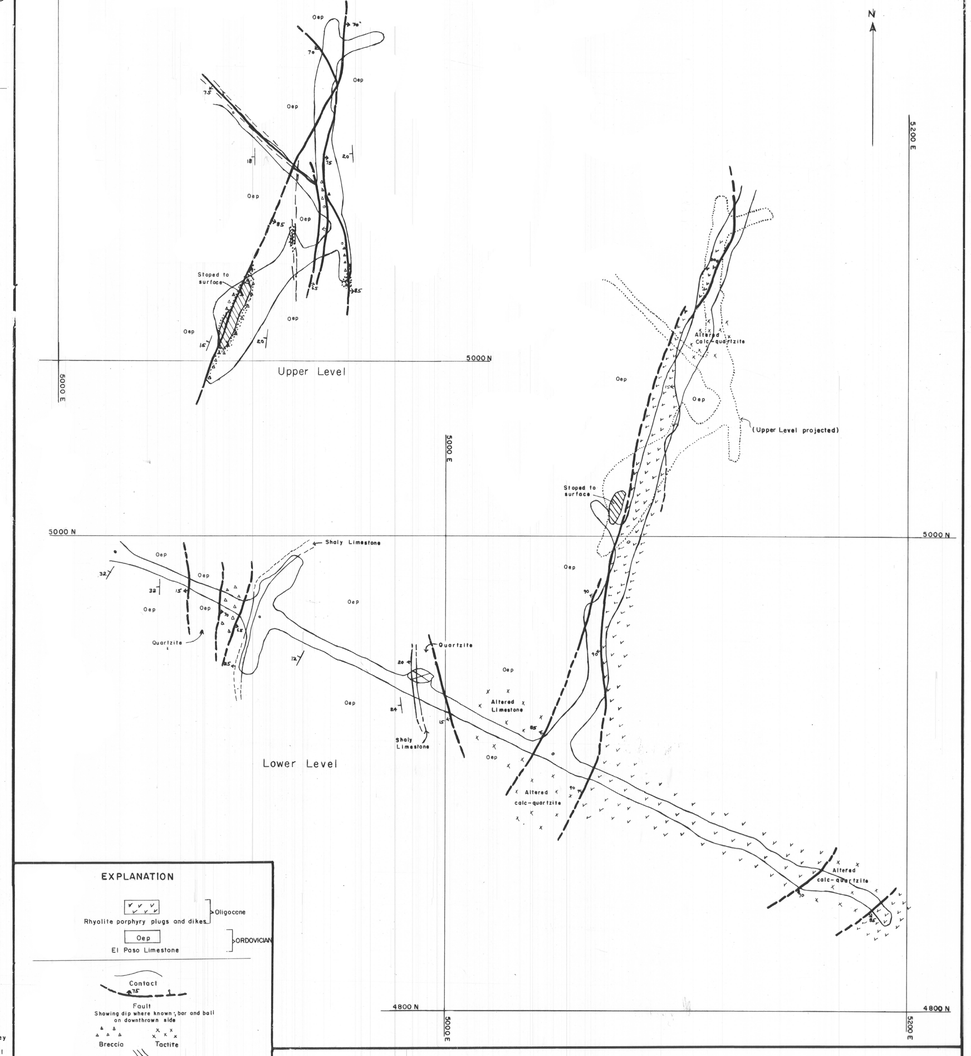
0 50 100 FEET
0 5 10 20 30 METERS

EXPLANATION

- Tr — Rhyolitic dikes — Oligocene
- Tg — Andesitic sills — Paleocene (?) — TERTIARY
- Oep — El Paso Limestone — ORDOVICIAN
- Mineralized Rock
- FAULT — Showing dip where known. Bar and ball on downthrown side
- FRACTURES

Shaft; Winze; Adit; Projected outline of workings; Drill hole site. Inclined hole, 30° from horizontal

Geology by R.L.Griggs and S.P.Ellison, U.S.Geological Survey, 1943.



EXPLANATION

- Rhyolite porphyry plugs and dikes — Oligocene
- Oep — El Paso Limestone — ORDOVICIAN
- Contact
- Fault — Showing dip where known; bar and ball on downthrown side
- Breccia; Tactite
- Fracture Zone
- Strike and dip of beds
- Disseminated Sulfides
- Stope; Shaft

0 5 10 15 20 40 60 80 FEET
0 5 10 15 20 METERS

GEOLOGIC MAP OF THE COLUMBIA MINE, CARPENTER DISTRICT, GRANT COUNTY, NEW MEXICO

PLATE 10

Geology by R.L.Griggs and H.C. Wagner, U.S. Geological Survey, 1943

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