GEOLOGIC MAP OF TINTIC MINING DISTRICT, UTAH

R.U.Goode, Geographer in charge.
Triangulation by S.S.Gannett.
Topography by W.T.Griswold and R.B.Marshall.
Surveyed in 1896-1897.
Culture revised in 1911 by W.M.Beaman.

Geology by G. F. Loughlin
Surveyed in 1911

Scale 1/62500

0 1/4 1/2 3/4 1 Mile

0 400 800 1600 2400 3200 4000 Feet

0 100 200 400 600 800 1000 Meters

Contour interval 20 feet.
Datum is mean sea level.

1918

LEGEND

SEDIMENTARY ROCKS

QUATERNARY

Recent

Qal — Alluvium

CARBONIFEROUS

Upper Mississippian

Ch — Humbug formation
(Dark argillaceous shale and calcareous quartzite)

Cp — Pine Canyon limestone
(Mostly dark fossiliferous limestone with prominent black chert nodules; coarse-grained pure limestone with upper (?) Mississippian fossils near top)

Lower Mississippian

Cg — Gardner dolomite
(Largely dark bluish-gray dolomite with beds of nearly black argillaceous limestone. Contains lower Mississippian fossils)

Cv — Victoria quartzite
(Two or more beds of calcareous quartzite alternating with limestone)

UNCONFORMITY

ORDOVICIAN

Upper to Lower Ordovician

Ob — Bluebell dolomite
(Alternating beds of light-gray and dark bluish-gray dolomite. Appearance very similar to Cole Canyon dolomite. Contact metamorphic in part)

Oo — Opohonga limestone
(Striped shaly limestone, weathered surfaces yellow to red alternating with bluish gray, cherty in places, especially lower beds. Resembles parts of Teutonic and Herkimer limestones but is redder on the whole. Contact metamorphic in part)

Lower Ordovician

Oa / Oad — Ajax limestone
(Dark bluish-gray magnesian limestone, with lighter-gray chert nodules and lenses. Includes, 90 feet above base, Emerald dolomite member, Oad, creamy-white fine to medium grained dolomite. Quartzite lenses at base. Contact metamorphic in part)

UNCONFORMITY

CAMBRIAN

Upper Cambrian?

Cu — Opex dolomite
(Dark-gray dolomite with interbedded shaly limestone and shale and a few thin quartzite lenses. Contact metamorphic in part)

€mc — Cole Canyon dolomite
(Alternating beds of light-gray and dark bluish-gray dolomite, in appearance very similar to Bluebell dolomite. Contact metamorphic in part)

€mb — Bluebird dolomite
(Dark bluish-gray dolomite spangled with short white coarser-grained rod-shaped bodies less than half an inch long)

Middle Cambrian

€mh — Herkimer limestone
(Mottled and banded argillaceous limestone, with yellowish-brown blotches and stripes in a dark-bluish body. Resembles parts of Teutonic and Opohonga limestones)

€md — Dagmar limestone
(Finely banded argillaceous limestone, nearly white on weathered surface, gray to nearly black on fresh fracture)

€mt — Teutonic limestone
(Dark-colored, mostly argillaceous limestone, with a few dolomitic beds. A large portion is mottled and striped with yellowish brown, resembling Herkimer limestone and parts of Opohonga limestone. Many of the lower beds are pisolitic)

€mo — Ophir formation
(Greenish, weathering brownish shale, largely micaceous and with slaty cleavage. Contains beds of dark limestone of same type as in Teutonic limestone. Contact metamorphic in part)

Lower Cambrian

€l — Tintic quartzite
(Light-colored quartzite, with several thin beds of fine to medium conglomerate. Very pure as a whole, but somewhat calcareous and argillaceous in uppermost beds. May include some pre-Cambrian)

IGNEOUS ROCKS

Tmd — Monzonite porphyry dikes

Tm — Monzonite

Tmp or Tbl — Monzonite porphyry, Tmp and biotite latite, Tbl
(Connected with the Sunrise Peak vent. Probably but not certainly of effusive character)

Tl — Latite tuff
(Silicified and therefore resembling the rhyolite tuff)

Tsr — Swansea rhyolite
(Intrusive)

Tpr — Packard rhyolite
(Exposed portions entirely effusive save for some small dikes in upper Jenny Lind Canyon)

Trt — Rhyolite tuff
(Mostly altered)

Ter — Early rhyolite
(Characterized by brown color, marked fluidal structure and absence of quartz phenocrysts)

TERTIARY (post-Eocene)

Strike and dip of beds

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