GEOLOGIC MAP OF THE PORTNEUF QUADRANGLE, IDAHO

EXPLANATION

SEDIMENTARY ROCKS

- Qal — Alluvium — Recent — QUATERNARY
- Qw — Hill wash and older alluvium — Pleistocene — QUATERNARY
- Qt — Travertine — Pleistocene — QUATERNARY
- Tsl — Salt Lake formation (ls., *limestone, and* ss., *sandstone lentils*) — Pliocene (?) — TERTIARY
- KTb — Fault breccia — CRETACEOUS OR TERTIARY
- Trh — Higham grit — TRIASSIC (?)
- Trty — Timothy sandstone — Lower Triassic, Thaynes group — TRIASSIC
- Trp — Portneuf limestone — Lower Triassic, Thaynes group — TRIASSIC
- Trfh — Fort Hall formation — Lower Triassic, Thaynes group — TRIASSIC
- Trf — Ross Fork limestone — Lower Triassic, Thaynes group — TRIASSIC
- Trw — Woodside shale — Lower Triassic, Thaynes group — TRIASSIC
- Cpb / Cpa — Phosphoria formation (Cpb, *Rex chert member;* Cpa, *phosphate shale, etc.*) — Permian — CARBONIFEROUS
- Cw — Wells formation — Pennsylvanian — CARBONIFEROUS
- Cb — Brazer limestone — Mississippian — CARBONIFEROUS
- Cm — Madison limestone — Mississippian — CARBONIFEROUS
- Dtf — Threeforks limestone — Upper Devonian — DEVONIAN
- Dj — Jefferson limestone — Middle Devonian — DEVONIAN
- Sl — Laketown dolomite — SILURIAN
- Ofh — Fish Haven dolomite — Upper Ordovician — ORDOVICIAN
- Osp — Swan Peak quartzite — Lower Ordovician — ORDOVICIAN
- Ogc — Garden City limestone — Lower Ordovician — ORDOVICIAN
- €sc / €sa — St. Charles limestone; €sa, Worm Creek quartzite member — Upper Cambrian — CAMBRIAN
- €n — Nounan limestone — Middle Cambrian — CAMBRIAN
- €b / €ba — Bloomington formation (€ba, *Hodges shale member*) — Middle Cambrian — CAMBRIAN
- €bl — Blacksmith limestone — Middle Cambrian — CAMBRIAN
- €u — Ute limestone — Middle Cambrian — CAMBRIAN
- €l — Langston limestone — Middle Cambrian — CAMBRIAN
- €q — Brigham quartzite — Lower and Middle Cambrian — CAMBRIAN
- € — Undifferentiated Cambrian formations — CAMBRIAN

IGNEOUS ROCKS

- b — Basalt — Pleistocene — QUATERNARY
- r — Rhyolite — Pliocene (?) — TERTIARY

Fault
Dashed line, probable
Dotted line, concealed

Syncline

Anticline

Axis of overturned fold

6000 / 5000 — Structure contours (*Drawn on top of phosphate shale member of Phosphoria formation. Contour interval 1000 feet. Datum, mean sea level*)

20° — Strike and dip

45° — Strike and overturned dip

Phosphate prospect

Line of proposed canal of Empire Irrigation District

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Control by L. F. Biggs and F. L. Whaley
Surveyed in 1914

Geology by G. R. Mansfield, P. V. Roundy, and J. W. Merritt

Scale 1/62500

1 ½ 0 1 2 3 4 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Contour interval 50 feet.
Datum is mean sea level.

1929

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