# GEOLOGIC MAP OF THE LANES CREEK QUADRANGLE, IDAHO

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.*

1927

R. B. Marshall, Chief Geographer
T. G. Gerdine, Geographer in charge
Topography by Albert Pike and J. L. Lewis
Control by Geo. T. Hawkins, D. S. Birkett, and Frank A. Danforth
Surveyed in 1911-1912

Geology by G. R. Mansfield, R. W. Richards, P. V. Roundy, W. Peterson, E. H. Finch, and E. L. Jones, Jr.
Surveyed in 1912-1916

ENGRAVED AND PRINTED BY THE U.S.GEOLOGICAL SURVEY

## EXPLANATION

### SEDIMENTARY ROCKS

- Qal — Alluvium (Recent)
- Qw — Hill wash and older alluvium (Pleistocene)
- Tsl — Salt Lake formation (*Conglomerate, calcareous grit, sandstone, marl, and clay*) (Pliocene (?)) — TERTIARY

UNCONFORMITY

- Kw — Wayan formation (*Upper part sandstone, shale, and conglomeratic beds; lower part limestone and red beds, with a massive sandstone near top*) (Lower Cretaceous (?)) — CRETACEOUS

UNCONFORMITY

- Kge — Ephraim conglomerate (*Red conglomerate, sandstone, and purplish limestone; near base chert-pebble conglomerate*) — CRETACEOUS (?)

UNCONFORMITY

- Js — Stump sandstone (*Thin-bedded and massive greenish-gray sandstone, weathering into platy and blocky fragments*)
- Jp — Preuss sandstone (*Reddish-gray to deep-red sandstone, usually calcareous, locally shaly*) (Upper Jurassic)

UNCONFORMITY

- Jtc — Twin Creek limestone (*Chiefly whitish-weathering shaly limestone; basal part largely massive brown sandy limestone*)

UNCONFORMITY

- Jn — Nugget sandstone (*Chiefly reddish to pinkish dense sandstone; some shaly beds and locally limestone bands with red shale near top*) — JURASSIC

- Trws — Wood shale (*Thin-bedded brilliantly red sandstone and red shale, locally gypsiferous*)
- Trd — Deadman limestone (*White, locally reddish or greenish limestone, massive, cherty, locally nodular; locally interbedded mottled limy shale*)
- Trh — Higham grit (*White to pinkish quartzitic grit; conglomerate with small quartzite pebbles, coarse quartzite or sandstone*) — TRIASSIC (?)

UNCONFORMITY

- Trty — Timothy sandstone (*Thin-bedded yellowish to grayish, somewhat sugary sandstone*)

UNCONFORMITY

- Trt — Thaynes group (*Upper part (Portneuf limestone) chiefly massive drab siliceous limestone, but includes red-bed member; middle part (Port Hall formation) yellowish and gray sandstone and shale; basal part (Ross Fork limestone) grayish and yellowish limestone, shale, and sandstone with Meekoceras zone at base*) (Lower Triassic)
- Trw — Woodside shale (*Olive-drab platy shale, with thin beds of brownish-gray limestone; massive fossiliferous limestone near top*) — TRIASSIC

UNCONFORMITY

- Cpb / Cpa — Phosphoria formation (*Rex chert member, Cpb, at top; Cpa, phosphatic shale, yellowish to brown phosphatic sandstone, brown or black fetid limestone, locally beds of chert*) (Permian)

UNCONFORMITY

- Cw — Wells formation (*Upper part chiefly dense, hard siliceous limestone; middle part softer sandy limestone, quartzite, and sandstone; lower part sandy and cherty gray limestone and sandstone*) (Pennsylvanian)

UNCONFORMITY

- Cb — Brazer limestone (*Massive light-gray to dark-gray limestone, weathering white to light gray*)

UNCONFORMITY

- Cm — Madison limestone (*Thin-bedded bluish-gray limestone, weathering brown or gray; also massive beds of light-gray limestone*) (Mississippian) — CARBONIFEROUS

### IGNEOUS ROCKS

- b — Basalt
- bc — Basaltic cones — TERTIARY AND QUATERNARY

Fault

Inferred fault

Fault concealed by surface deposits

Anticlinal axis

Synclinal axis

Strike and dip of rocks

Strike of vertical dip

Phosphate prospect

Nitrate prospects

Metalliferous prospect

K″ — K′ Line of profile on Plate 10