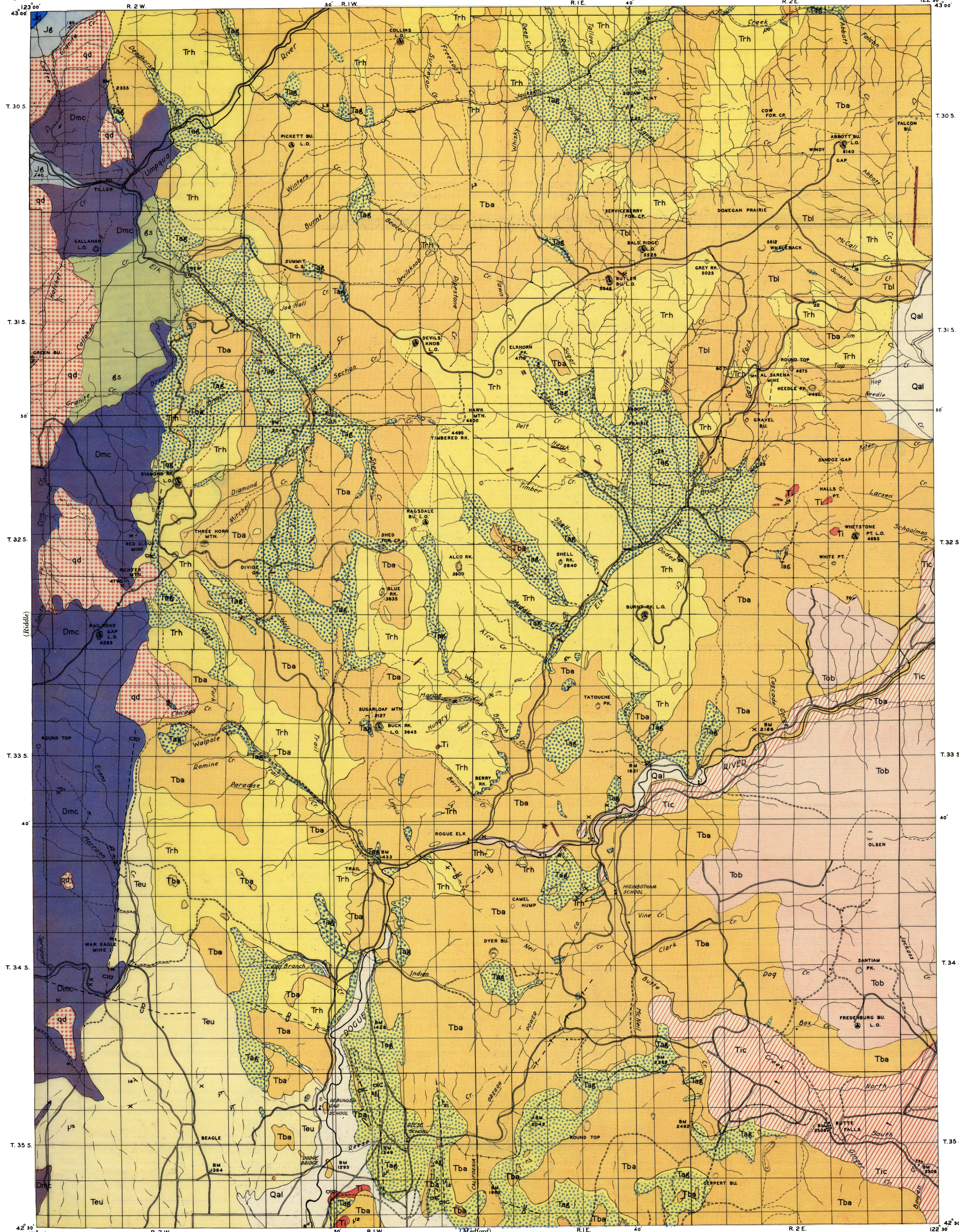


RECONNAISSANCE GEOLOGIC MAP
OF THE
BUTTE FALLS QUADRANGLE
OREGON

ISSUED BY THE
STATE OF OREGON
DEPARTMENT OF GEOLOGY AND
MINERAL INDUSTRIES
EARL K. NIXON, DIRECTOR

TO ACCOMPANY BULLETIN No. 22
"GEOLOGY OF THE BUTTE FALLS
QUADRANGLE"



EXPLANATION

- Qal**
Alluvium
(Stratified gravel, sand, silt and pumice)
- UNCONFORMITY**
- Ti**
Intrusive
(Diorite sills and basalt dikes)
- Tic**
Later basalt flow
(Light gray intracanyon olivine basalt flows)
- UNCONFORMITY**
- Tbl**
Basalt flows
(Light gray Abbot Butte basalt flows)
- Tob**
Basalt flows
(Gray Olsen Peak basalt flows)
- UNCONFORMITY (?)**
- Trh**
Rhyolite
(White to buff rhyolite flows, tuffs and breccias)
- Tba**
Older basalt flows
(Black, coarse textured basalts)
- UNCONFORMITY (?)**
- Tag**
Agglomerate
(Green agglomerates, tuffs and flow breccias)
- UNCONFORMITY (?)**
- Teu**
Umpqua formation
(Buff sandstones, shales and conglomerates)
- UNCONFORMITY**
- Qd**
Quartz diorite
(Intrusive masses, dikes and related rock)
- UNCONFORMITY**
- jd**
Dothan formation
(Hard sandstones, shales and conglomerates)
- UNCONFORMITY (?)**
- jg**
Galice formation
(Slightly metamorphosed shales, some sandstones and conglomerates)
- UNCONFORMITY**
- gs**
Greenstones
(Slightly metamorphosed basalts, gabbros and related rocks)
- UNCONFORMITY**
- Dmc**
May Creek formation
(Mica schists and slates)

- U, upthrow
D, downthrow
- Strike and dip of sedimentary beds
- Strike and dip of schistosity or foliation
- Strike of schistosity or foliation
- Strike and dip of joint planes
- Direction of dip of bed
- Mine Prospect

Base by United States Forest Service
Umpqua National Forest Map—1930

0 1 2 3 4 5 Miles
0 1 2 3 4 5 Kilometers

Datum mean sea level
1941

TRUE NORTH
MAGNETIC NORTH

Geology by W. D. Wilkinson,
John Eliot Allen, Wayne Lowell,
Wallace Lowry, Muri Hutchinson,
Herbert Harper, Robert Littleton,
Richard Menck, Stewart Jones.