

GEOLOGICAL SURVEY

LEGEND

Unpatterned areas are areas of few or no outcrops in which the character of the bedrock formation is unknown.

CRETACEOUS OR TERTIARY
18. sh. arkose conglomerate, 19. varicoloured, commonly quartzitic, lens, agglomerate, and tuff, abundant related undifferentiated, porphyritic intrusions
Minor intrusions: 17a. feldspar porphyry; 17b. altered felsitic intrusions; 17c. hornblende diorite and hornblende porphyry; 17d. pink, brown-speckled, feldspar-biotite porphyry; 17e. quartz, biotite xenite or quartz xenite porphyry. Probably not all of the same age

15. light grey, coarse-grained, massive, biotite-hornblende granodiorite
16. massive, medium- to coarse-grained, pink biotite granite
Medium-grained, massive to foliated, hornblende-biotite quartz diorite and granodiorite; minor diorite and gabbro
Massive, coarse- to medium-grained, anorthositic gabbro and gabbro, 13a. medium-grained gabbro breccia

CRETACEOUS
LECKIE GROUP: verticalized pyroclastic rocks intercalated with grey, greenish-grey, and maize lava flows, in part porphyritic; minor dark grey shale and conglomerate

JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS
ELDORADO GROUP: 11a. *Upper Jurassic*: mainly massive to thin-bedded, dark argillaceous and tuffaceous beds; in part dense and flinty; 11b. *Lower Cretaceous*: grey and green sandstone, shale, conglomerate, and tuffaceous beds; 11c. *Lower Cretaceous (?)*: mainly massive, dark green tuff, breccias, and tuffaceous sedimentary rocks

JURASSIC
MIDDLE OR UPPER JURASSIC
TAYLOR GROUP: conglomerate; sandstone, shale; minor volcanic rocks; 10a. mainly coarse to fine conglomerate; grit, sandstone, shale, argillite, minor green volcanic rocks; 10b. clay- or pebble conglomerate, micaceous-arkosic sandstone, shale, argillaceous and tuffaceous beds
LOWER AND MIDDLE JURASSIC
8. *Lower Jurassic*: dark argillite and shale; minor sandstone, limestone, and pebble conglomerate
9. *Middle Jurassic*: dark grey argillite; minor grey and green arenaceous beds

TRIASSIC AND (?) JURASSIC
UPPER TRIASSIC (mainly or entirely)
TYAUGHTON GROUP: interbedded grey, green, and reddish sandstone, shale, pebble conglomerate, and limestone; thick bed of grey limestone

TRIASSIC
HURLEY GROUP: thin-bedded, commonly limy, grey to black, argillaceous and tuffaceous strata; conglomerate, limestone, minor intercalated volcanic rocks; 6a. chiefly grey to black, line-grained to flinty argillaceous and siliceous beds (may be equivalent in age to 2 and 3)
4. **PIONEER FORMATION**: mainly green, massive line-grained to asphaltic andesitic lavas and pyroclastic rocks
5. greenstone and greenstone-diorite, undifferentiated lava, agglomerate, and tuff
9. **NOEL FORMATION**: banded and massive, grey to greenish grey, argillaceous, siliceous, and tuffaceous beds; minor intercalated volcanic rocks
3. chiefly metamorphosed beds, probably mainly equivalent to 2

PERMIAN (?)
FERGUSON GROUP: undifferentiated sedimentary and volcanic rocks; 1a. chiefly interbedded chert and argillite; some limestone; 1b. andesitic to basaltic lavas and related pyroclastic rocks (greenstones); some limestone, including bodies of carbonized and serpentine-like rocks of doubtful and perhaps different origins

A1. serpentine and partly serpentinized peridotite; carbonized alteration products
A2. **Summer gabbro**: olivine gabbro
Basaltic intrusions: augite diorite and gabbro, soda granite (altite telose)

Heavily drift covered area
Bedding (horizontal, inclined, vertical)
Fossil locality
Fault
Prospect
Mining property
Adit
Geology by C. E. Cairnes, 1937, and C. H. Crickmay, 1939; geological compilation by C. E. Cairnes

Road, well travelled
Road, not well travelled
Trail
Transmission line
Contour interval 500 feet

Note: Within this unpatterned area are outcrops of conglomerate and other beds that are probably of post-Pearson age.

Note: Outcrops along the lower deep valley of Tyaughton Creek and in the hills to the east include much bedded, relict serpentine and carbonaceous rocks (A1).

PRELIMINARY MAP 43-15A

TYAUGHTON LAKE
LILLOOET DISTRICT
BRITISH COLUMBIA
Scale: 2 inches to 1 mile

Derived and compiled by the Topographical Bureau, 1922-45
Issued 1945.