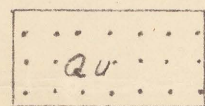
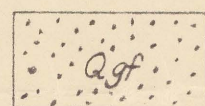


# EXPLANATION OF ROCK UNITS

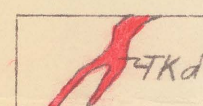
## ROCK UNITS COMMON TO ENTIRE MAP AREA



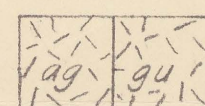
Undifferentiated gravels and sands of Pleistocene and Recent age.



Pleistocene glaciofluvial deposits.

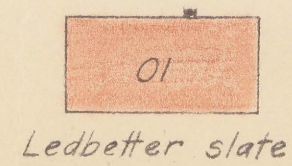


Dikes and sills of Tertiary(?) or Cretaceous(?) age.



Albitic granite (ag) and undifferentiated granitic rocks (gu) of Mesozoic(?) age.

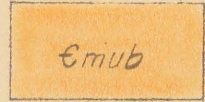
### ROCK UNITS FOUND WITHIN AREA I.



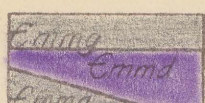
Ledbetter slate



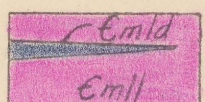
Thin-bedded shale and limestone of uncertain stratigraphic position.



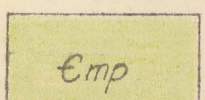
Upper member  
Intraformational dolomite breccia.



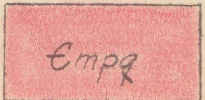
Middle member  
Medium-grained light gray dolomite (Emmg); interlayered dark and light gray to white dolomite (Emmd).



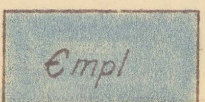
Lower member  
Mottled, gray to buff-weathering limestone (Emld); dark gray to black dolomite (Emld).



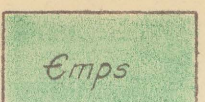
Dominantly phyllite and limy phyllite with minor limestone and quartzite layers.



Interlayered quartzite, phyllite, and schist.

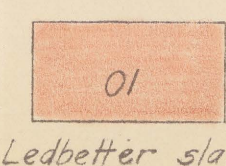


White to gray, medium-bedded limestone.

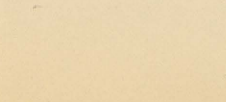


Quartz-chlorite-muscovite schist. Includes a few thin quartzite and limestone beds.

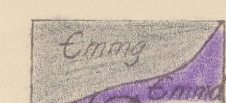
### ROCK UNITS FOUND WITHIN AREA II.



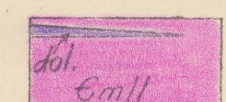
Ledbetter slate



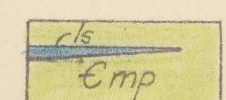
Upper member  
Gray and white interlayered limestone.



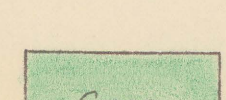
Middle member  
Medium-grained light gray dolomite (Emmg); interlayered dark and light gray to white dolomite (Emmd). Contains thin beds of gray limestone (ls) near the base.



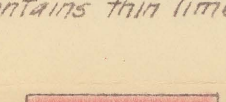
Lower member  
Dark gray and mottled gray to buff-weathering limestone (Emld). Contains thin beds of gray dolomite (dol) near top of unit.



Dominantly dark gray phyllite and limy phyllite. Contains limestone beds (ls) and minor schist and quartzite layers.



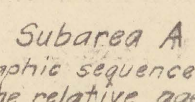
Quartz-chlorite-muscovite schist. Contains thin limestone (ls) and phyllite layers.



Quartzite, with thin interbeds of phyllite and schist. May include part of underlying Gypsy quartzite.

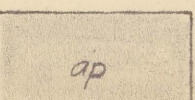
### ROCK UNITS FOUND WITHIN AREA III.

Stratigraphic relations unknown or uncertain. Probably rocks of Paleozoic and Mesozoic age are represented, but correlation with rocks outside Area III are uncertain or unknown. Correlations among rocks of subareas A, B, and C are unknown, except as stated in the captions below.

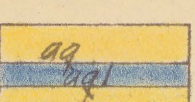


Subarea A  
Rocks arranged in stratigraphic sequence, but because they may be overturned, the relative ages are unknown.

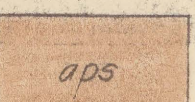
Dominantly altered mafic volcanic rocks with some interbedded dark argillaceous rocks. Probably volcanic rocks of the Rossland group of British Columbia.



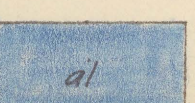
Contorted and sheared phyllite, locally limy. Perhaps equivalent to (cp).



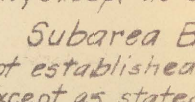
Quartzite, chert, schist and greenstone (aq); light and dark gray banded limestone (aq).



Black, siliceous phyllite; includes thin beds of dark gray limestone. Probably equivalent to (cps).

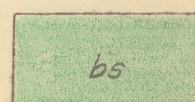


Light gray, massive limestone.



Subarea B  
Stratigraphic sequence not established, arrangement without significance except as stated in captions.

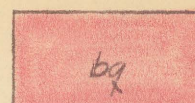
Limestone (bs), possibly equivalent to one bearing limestone of Reeves MacDonald mine, British Columbia. Schist (bs); limestone (bs); schist (bs); limestone (bs); thin layered quartzite with phyllite and schist interbeds (bsp). Rocks arranged in stratigraphic sequence, probably not reversed.



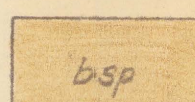
Quartz-sericite-chlorite schist.



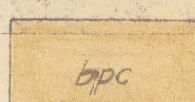
Limestone, may be equivalent to (bs), but relations obscure.



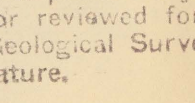
Gray to white, thick-bedded quartzite, may be Gypsy quartzite



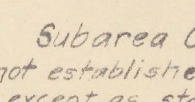
Black siliceous phyllite and phyllitic slate. Lithologically similar to Ledbetter slate (Ol) west of Cedar Creek valley and to unit csp in northeast part of quadrangle.



Sheared and contorted dark gray phyllite. May be tectonic facies of (bsp).

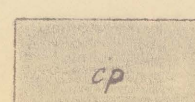


Black siliceous phyllite, interlayered with thin limestone beds probably equivalent to (aps).

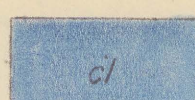


Subarea C  
Stratigraphic sequence not established, arrangement without significance except as stated in captions.

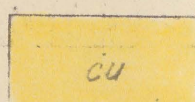
Siliceous graphitic phyllite. Lithologically similar to Ledbetter slate (Ol) west of Cedar Creek valley and to unit (bsp) on Red Top Mountain



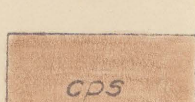
Dark gray to silver gray phyllite and phyllitic slate. Locally contains few thin limestone and quartzite beds. Perhaps equivalent to (ap).



Gray banded limestone.



Undifferentiated rocks west and south of Hungate clearing. Includes greenstone, schist and phyllite, predominantly greenish gray. May be part of volcanic rocks of Mesozoic age or part of (aq).



Black siliceous phyllite, interlayered with thin limestone beds probably equivalent to (aps).

Contact, showing dip  
(Dashed where approximately located, dotted where concealed)

Indefinite or inferred contact

Fault, showing dip  
(Dashed where approximately located, dotted where concealed)

Vertical fault

Doubtful or probable fault  
(Dotted where concealed)

Fault breccia

Anticline, showing trace of axial plane and bearing and direction of plunge of axis  
(Dashed where approximately located, dotted where concealed)

Syncline, showing trace of axial plane and bearing and direction of plunge of axis  
(Dashed where approximately located, dotted where concealed)

Overturned syncline  
(Showing trace of axial plane and direction of dip of limbs)

Plunge of minor anticline

Plunge of minor syncline

Overturned anticline  
(Showing strike and dip of axial plane, and direction of dip of limbs)

Plunge of fold axes

Strike of vertical axial plane showing plunge of fold axis

Axial plane of minor folds where plunge is unknown

Strike and dip of beds

Strike and dip of overturned beds

Strike of vertical beds

Horizontal beds

Strike and dip of foliation, showing plunge of lineation

Strike of vertical foliation

Strike and dip of cleavage, showing plunge of lineation

Strike of vertical cleavage

Plunge of pencil cleavage

Strike and dip of jointing

Strike of vertical joints

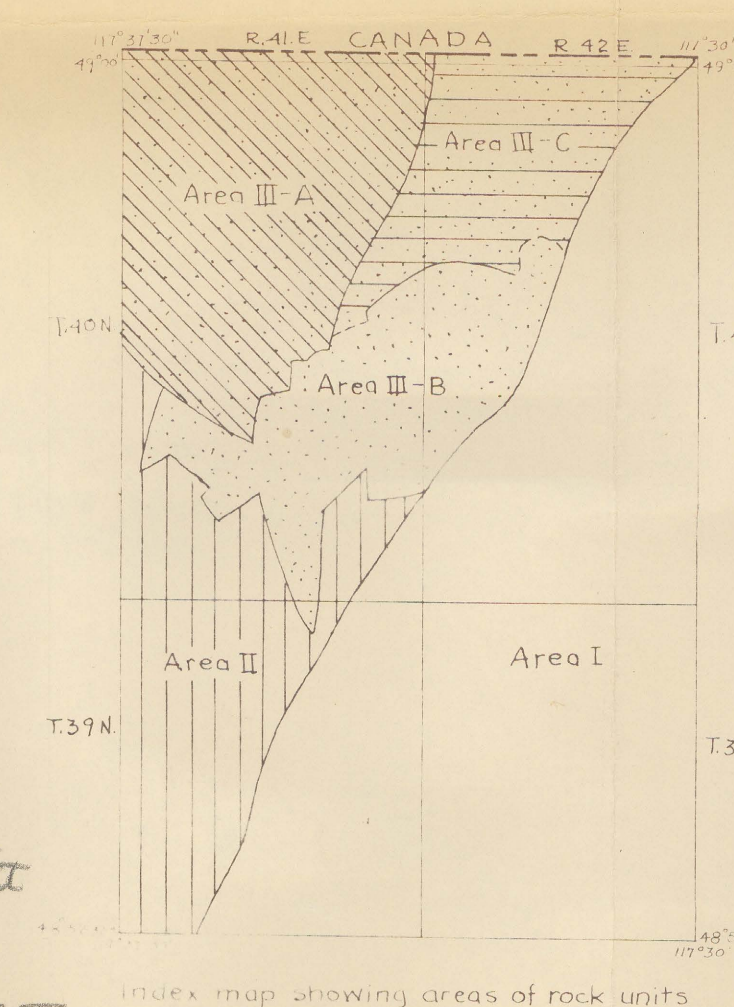
Vertical shaft

Portal of tunnel or adit

Small prospect pit or open cut

Plunge of lineation of mineral streaking

Plunge of plications of cleavage planes



Explanation to  
Geologic map of Lead Point  
quadrangle  
by R. S. Yates and J. F.  
Robertson

This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nomenclature.