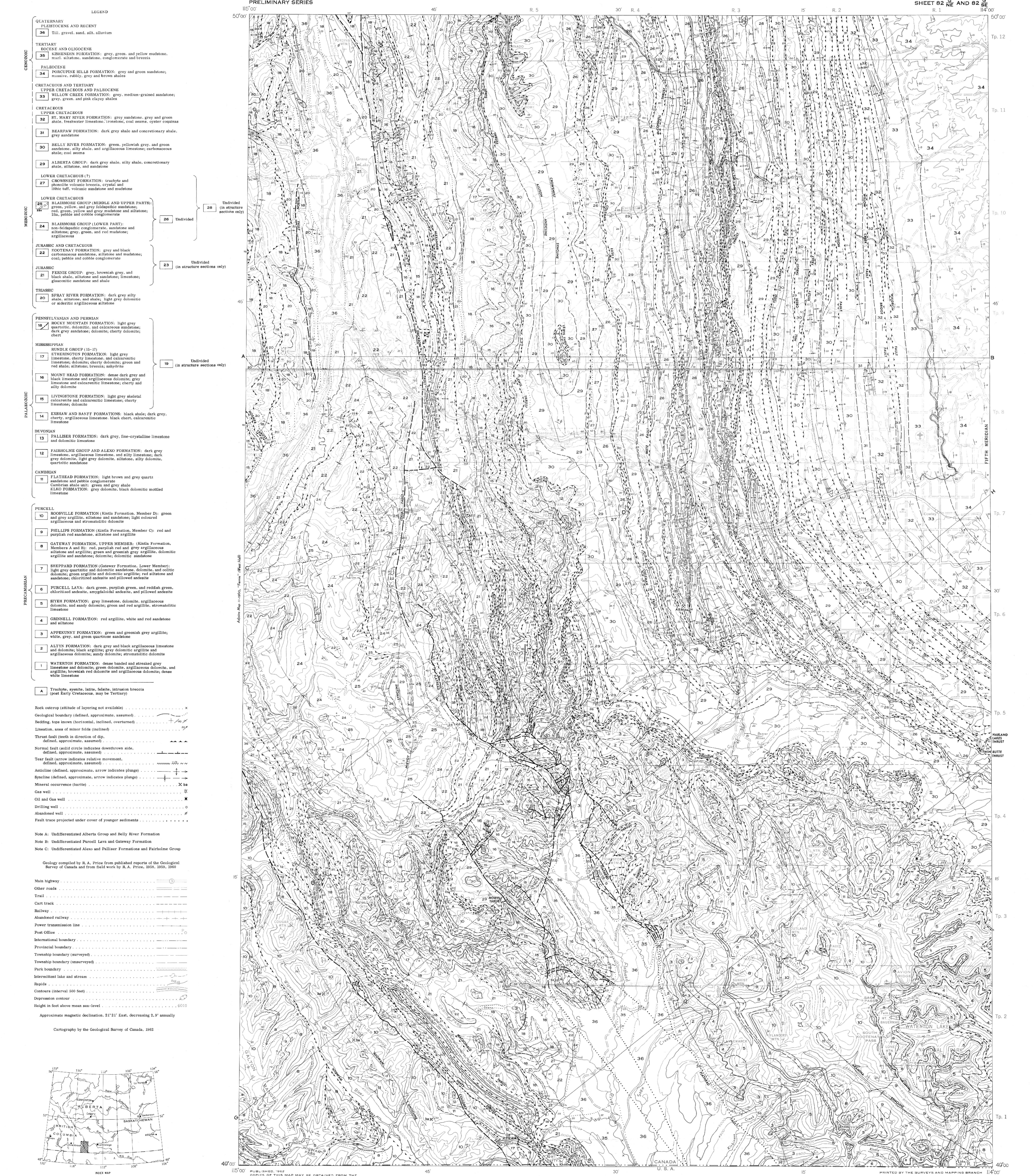


SECTIONS ALONG LINES A-B, C-D, E-F, G-H, I-J



PRELIMINARY SERIES

LEGEND

QUATERNARY
36 Till, gravel, sand, silt, alluvium

TERTIARY
35 KAMBERLIN FORMATION: grey, green, and yellow mudstone, sand, siltstone, sandstone, conglomerate and breccia

PALEOCENE
34 PURCHINE HILLS FORMATION: grey and green sandstone; massive, columnar, grey and brown shales

CRETACEOUS AND TERTIARY
33 WILLOW CREEK FORMATION: grey, medium-grained sandstone; grey, green, and pink clayey shales

CRETACEOUS
32 ST. MARY RIVER FORMATION: grey sandstone, grey and green shale, freshwater limestone, concretion, coal seams, oyster coquina
31 BARBARA FORMATION: dark grey shale and concretionary shale, grey sandstone
30 BELLY RIVER FORMATION: green, yellowish grey, and green sandstone, silty shale, and argillaceous limestone, carbonaceous shale, coal seams
29 ALBERTA GROUP: dark grey shale, silty shale, concretionary shale, siltstone, and sandstone
27 CROMWELL FORMATION: trachyte and phonite volcanic intrusions, rhyolite and tuff, silty sandstone and mudstone

LOWER CRETACEOUS (?)
26 ALBANY GROUP (MIDDLE AND UPPER PARTS): green, yellow, and grey fossiliferous sandstone, grey, yellow, and green sandstone and siltstone; thin, yellow, and green sandstone and siltstone
25 ALBANY GROUP (LOWER PARTS): non-fossiliferous conglomerate, sandstone and siltstone, grey, green, and red mudstone, argillaceous

JURASSIC AND CRETACEOUS
24 MOUNT READ FORMATION: grey and black carbonaceous sandstone, siltstone and mudstone; coal, pebbles and corals conglomerate
23 FERNE GROUP: grey, brownish grey, and black shale, siltstone, and sandstone, limestone, glauconitic sandstone and shale
22 SPRAY RIVER FORMATION: dark grey silty shale, siltstone, and shale; light grey dolomite or silty argillaceous siltstone

PENNSYLVANIAN AND PERMIAN
19 ROCKY MOUNTAIN FORMATION: light grey quartzitic, dolomitic, and calcareous sandstone; dark grey sandstone, dolomite, cherty dolomite; chert

MISSISSIPPIAN
18 MOUNT READ FORMATION: dense dark grey and black limestone and argillaceous dolomite, grey limestone and calcareous limestone, cherty and silty dolomite
17 LIVINGSTONE FORMATION: light grey silty dolomite, cherty, argillaceous limestone, black chert, calcareous limestone
16 KESWICK AND HASTY FORMATIONS: black shale, dark grey, cherty, argillaceous limestone, black chert, calcareous limestone
15 PALLISER FORMATION: dark grey, fine-crystalline limestone and dolomite limestone
14 FAIRBOLME GROUP AND ALEXO FORMATION: dark grey limestone, argillaceous limestone, and silty limestone; dark grey dolomite, light grey dolomite, silty dolomite, oolitic sandstone
13 CAMBRIAN
12 FAIRBOLME GROUP: light brown and grey quartz sandstone and pebble conglomerate
11 ELKO FORMATION: grey dolomite, black dolomite mottled limestone

PURCELL
10 ROCKVILLE FORMATION (Kintla Formation, Member D): green and grey argillite, siltstone, and sandstone, light colored argillaceous and siltstone
9 WILLOW FORMATION (Kintla Formation, Member C): red and purplish red sandstone, siltstone and argillite
8 GATEWAY FORMATION (Kintla Formation, Member A and B): red, purple, red and grey argillaceous siltstone and argillite, green and greenish grey argillite, dolomite and sandstone
7 SHEPPARD FORMATION (Gawway Formation, Lower Member): light grey quartzitic and dolomitic sandstone, dolomite, and oolitic dolomite, green and grey shale, red siltstone and sandstone; chloritized sandstone and pillowed sandstone
6 PURCELL LAVA: dark green, purplish green, and reddish green, chloritized sandstone, argillaceous sandstone, and pillowed sandstone
5 SIVEX FORMATION: grey limestone, dolomite, argillaceous dolomite, and sandy dolomite; green and red argillite, stromatolitic limestone
4 GRINNELL FORMATION: red argillite, white and red sandstone and siltstone
3 APPERDINNY FORMATION: green and greenish grey argillite, white, grey, and green quartzite sandstone
2 ALTYN FORMATION: dark grey and black argillaceous limestone and dolomite, black argillite, grey dolomitic argillite and argillaceous dolomite, sandy dolomite, stromatolitic dolomite
1 WATERTON FORMATION: dense banded and streaked grey limestone and dolomite, green dolomite, argillaceous dolomite, and argillite, brownish red dolomite and argillaceous dolomite, dense white limestone

A Trachyte, syenite, latite, felsite, intrusion breccia (post Early Cretaceous, may be Tertiary)

Rock outcrop (attitude of layering not available)

Geological boundary (defined, approximate, assumed)

Faulting: type shown (horizontal, inclined, overturned)

Location: axes of minor folds (undefined)

Three fold (axis in direction of dip, defined, approximate, assumed)

Normal fault (solid circle indicates downthrown side, defined, approximate, assumed)

Tear fault (arrow indicates relative movement, defined, approximate, assumed)

Anticline (defined, approximate, arrow indicates plunge)

Syncline (defined, approximate, arrow indicates plunge)

Mineral occurrence (barite)

Oil and Gas well

Drilling well

Abandoned well

Fault trace projected under cover of younger sediments

Note A: Undifferentiated Alberta Group and Belly River Formation
Note B: Undifferentiated Purcell Lava and Gateway Formation
Note C: Undifferentiated Alexo and Palliser Formations and Fairbolme Group

Geology compiled by R. A. Price from published reports of the Geological Survey of Canada and from field work by R. A. Price, 1958, 1959, 1960

Main highway
Other roads
Trail
Cart track
Railway
Abandoned railway
Power transmission line
Post Office
International boundary
Provincial boundary
Township boundary (surveyed)
Part boundary
Intermittent lake and stream
Rapids
Contours (interval 500 feet)
Depression contour
Height in feet above mean sea-level

Approximate magnetic declination, 21° 21' East, decreasing 5.4' annually

Cartography by the Geological Survey of Canada, 1962