



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

PRELIMINARY SERIES SHEET 82 G AND 82 G NE AND 82 G SE

**LEGEND**

**QUATERNARY PLISTOCENE AND RECENT**

36 Till, gravel, sand, silt, silty loam

**CRETACEOUS AND TERTIARY**

**CRETACEOUS**

32 ST. MARY RIVER FORMATION: grey sandstone, grey and green shale, freshwater limestone, ironstone, coal seams, upper coquina

31 BEARPAW FORMATION: dark grey shale and concretionary shale, grey sandstone

30 BELLY RIVER FORMATION: green, yellowish grey, and grey sandstone; silty shale, and argillaceous limestone; carbonaceous shale; coal seams

29 ALBERTA GROUP: dark grey shale, silty shale, concretionary shale, silty shale, and sandstone

27 CHRONOMET FORMATION: fine-grained and medium-grained sandstone, crystal and massive volcanic breccia, crystal and massive volcanic sandstone and mudstone

**LOWER CRETACEOUS**

26 ALBANY GROUP (MIDDLE AND UPPER PARTS): red, green, yellow and grey mudstone and siltstone; clay, pebbles and cobble conglomerate

24 ALBANY GROUP (LOWER PART): non-foliated conglomerate, sandstone and siltstone, grey and red mudstone, argillaceous

**JURASSIC AND CRETACEOUS**

22 TROTTER FORMATION: grey and black carbonaceous sandstone, siltstone and mudstone; coal, pebbles and cobble conglomerate

21 FERNIE GROUP: grey, brownish grey, and black shale, siltstone, and sandstone; gasconitic sandstone and shale

**TRIASIC**

20 SPRAY RIVER FORMATION: dark grey silty shale, siltstone, and shale; light grey dolomite or sideritic argillaceous siltstone

**PENNSYLVANIAN AND PERMIAN**

19 ROCKY MOUNTAIN FORMATION: light grey quartzite, argillaceous sandstone, and siltstone; dark grey sandstone, dolomite, cherty dolomite; dark grey shale, siltstone, breccia, sandstone

**MISSISSIPPIAN**

17 HUNTER FORMATION: light grey limestone, cherty limestone, and calcarenite limestone; dolomite, cherty dolomite, green and red shale, siltstone, breccia, sandstone

16 MOUNT HEAD FORMATION: dense dark grey and black limestone, and argillaceous dolomite, grey limestone and calcarenite limestone; cherty and silty dolomite

15 LIVINGSTONE FORMATION: light grey silty dolomite, calcarenite limestone; cherty limestone; dolomite

14 KESWICK AND BANTY FORMATIONS: black shale, dark grey, cherty, argillaceous limestone, black chert, calcarenite limestone

**DEVONIAN**

13 FALLS FORMATION: dark grey, fine-crystalline limestone and dolomite limestone

12 FAIRHOLME GROUP AND ALEXO FORMATION: dark grey limestone, argillaceous limestone, and siltstone; dark grey dolomite, light grey dolomite, siltstone, silty dolomite, argillaceous sandstone

**CAMBRIAN**

11 FLATHEAD FORMATION: light brown and grey quartz sandstone and pebbly conglomerate; Cambrian shale unit: green and grey shale

10 LEAK FORMATION: grey dolomite, black dolomite, mottled limestone

**PURCELL**

10 ROSSVILLE FORMATION (Kamla Formation, Member D): green and grey argillite, calcarenite and sandstone, light colored argillaceous and arenaceous dolomite

9 PHILLIPS FORMATION (Kamla Formation, Member C): red and greenish red sandstone, siltstone and argillite

8 GATEWAY FORMATION, UPPER MEMBER: (Kamla Formation, Member A) dark green and grey argillite, dolomite and argillite; green and greenish grey argillite, dolomite and argillite

7 SHEPPARD FORMATION (Galloway Formation, Lower Member): light grey quartzite and dolomite sandstone; dolomite, and silty dolomite; green argillite and dolomite; argillite, red silty shale 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 BRYER FORMATION: grey limestone, dolomite, argillaceous dolomite, and sandy dolomite; green and red argillite, arenaceous limestone

4 GRINNELL FORMATION: red argillite, white and red sandstone and siltstone

3 APPERKIN FORMATION: green and greenish grey argillite, silty grey and green quartzite sandstone

2 ALTYN FORMATION: dark grey and black argillaceous limestone and dolomite; black argillite; grey dolomite argillite and argillaceous dolomite; sandy dolomite; arenaceous 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 Tephrite, syenite, latite, felsite, intrusion breccia (near Early Cretaceous, may be Tertiary)

Rock outcrop (altitude of layering not available)

Geological boundary (defined, approximate, assumed)

Building, top layer (horizontal, vertical, overthrown)

Lamination, axes of minor folds (inclined)

Thrust fault (tooth in direction of dip, defined, approximate, assumed)

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

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

Anticline (defined, approximate, arrow indicates plunge)

Syncline (defined, approximate, arrow indicates plunge)

Mineral occurrence (barite)

Gas well

Oil and Gas well

Drilling well

Abandoned well

Fault trace projected under cover of younger sediments

See A. Undifferentiated Alberta Group and Belly River Formation

See B. Undifferentiated Purcell, Levee and Gateway Formation

See C. Undifferentiated Alexo and Phillips Formations and Fairholme Group

Geology compiled by R. A. Pringle from published reports of the Geological Survey of Canada and from field work by R. A. Pringle, 1948, 1949, 1950

Main highway

Other roads

Trail

Cart track

Railway

Abandoned railway

Power transmission line

Post Office

International boundary

Provincial boundary

Township boundary (surveyed)

Township boundary (unsurveyed)

Park boundary

Intermittent lake and stream

Rapids

Contours (interval 300 feet)

Depression contour

Height in feet above mean sea-level

Approximate magnetic declination: 21°11' East, decreasing 1.9' annually

Cartography by the Geological Survey of Canada, 1962



MAP 35-1961  
TO ACCOMPANY PAPER 61-24  
GEOLOGY  
FERNIE  
(EAST HALF)  
BRITISH COLUMBIA - ALBERTA  
Scale: One Inch to Two Miles  
1:126,720

MAP LIBRARY / CARTOGRAPH  
35-1961  
G  
3401  
CS  
1956  
64  
amse  
e-1

MAP 35-1961  
FERNIE  
BRITISH COLUMBIA - ALBERTA  
SHEET 82 G AND 82 G NE