

LEGEND

CRETACEOUS

UPPER CRETACEOUS

23 WAPITI FORMATION: conglomerate; carbonaceous sandstone and shale; coal

SMOKY GROUP (17-22)
22 WAPIABI FORMATION (upper part): fine-grained marine sandstone

21 WAPIABI FORMATION (lower part); dark marine shale

20 BADHEART FORMATION: fine-grained marine sandstone; carbonaceous sandstone and shale

19 Dark marine shale

18 CARDIUM FORMATION: fine-grained sandstone; shale

17 KASKAPAU FORMATION: dark marine shale; siltstone and sandstone

16 DUNVEGAN FORMATION: marine and non-marine sandstone and shale

LOWER CRETACEOUS

FORT ST. JOHN GROUP (8-15)

15 CRUISER FORMATION: marine shale

12 SHAFESBURY FORMATION: marine shale

14 GOODRICH FORMATION: fine-grained sandstone

13 HASLER FORMATION: dark marine shale

11 COMMOTION FORMATION (upper part): conglomerate; coarse- to fine-grained sandstone; shale; coal

10 COMMOTION FORMATION (middle part): dark marine shale

9 COMMOTION FORMATION (lower part): carbonaceous sandstone; shale; coal

6 LUSCAR FORMATION: conglomerate; carbonaceous sandstone and shale; coal

8 MOOSEBAR FORMATION: dark marine shale

7 GETHING FORMATION: conglomerate; carbonaceous sandstone and shale; coal

5 CADOMIN FORMATION: massive conglomerate

JURASSIC AND CRETACEOUS

LOWER CRETACEOUS AND EARLIER

4 NIKANASSIN FORMATION: fine-grained sandstone and carbonaceous shale

JURASSIC

3 FERNIE FORMATION: dark marine shale

TRIASSIC

2 Undivided: limestone; sandstone; shale

TRIASSIC, JURASSIC, AND EARLIER

1 Undivided: limestone; dolomite; sandstone; shale

Rock outcrop x
Geological boundary (approximate, assumed)
Limit of geological mapping
Bedding (horizontal, vertical, inclined)
Fault (approximate, assumed, arrow indicates dip)
Anticline (approximate, assumed)
Syncline (approximate, assumed)
Well (abandoned)

INDEX TO WELLS

1. Richfield C.F. des Petroles Grizzly Valley No.1
2. Trans Era Wilrich Central del Rio Stony Lake
3. Phillips Lone Mountain No.1
4. Phillips Lone Mountain No.2
5. Pan American Lingrell No.1
6. Red Willow No.1
7. Triad Prairie Creek No.1-A
8. Jera No.1

Geology by D.F. Stott, 1958, 1959

Road
Trail
Provincial boundary
Contours (interval, 500 feet)

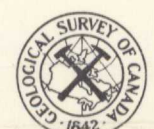
Cartography by the Geological Survey of Canada, 1960

Approximate magnetic declination, 27° 01' East

Geographical names subject to revision

Air photographs covering this area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa

In response to public demand for earlier publication, Preliminary Series maps are issued in this simplified form and will be clearer to read if all or some of the map-units are hand-coloured



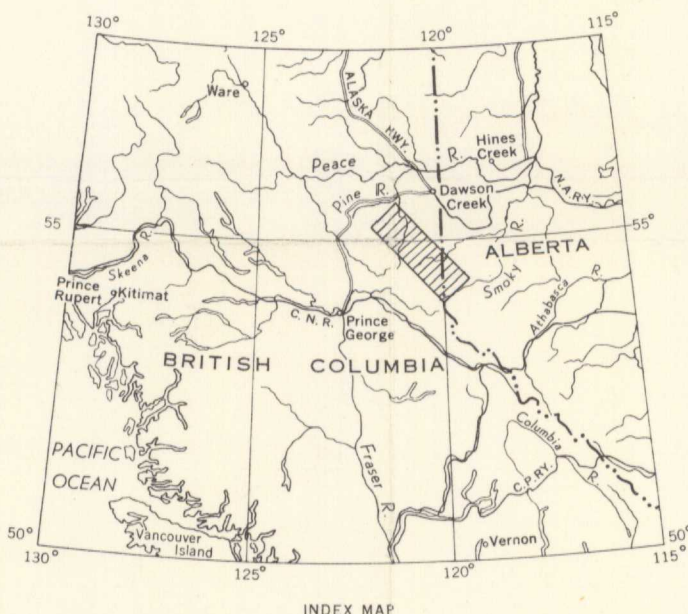
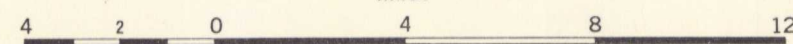
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

MAP 21-1960
TO ACCOMPANY PAPER 60-16

GEOLOGY

CRETACEOUS ROCKS OF
SMOKY AND PINE RIVERS AREA
ROCKY MOUNTAIN FOOTHILLS
BRITISH COLUMBIA AND ALBERTA

Scale: One Inch to Four Miles = $\frac{1}{253,440}$
Miles



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