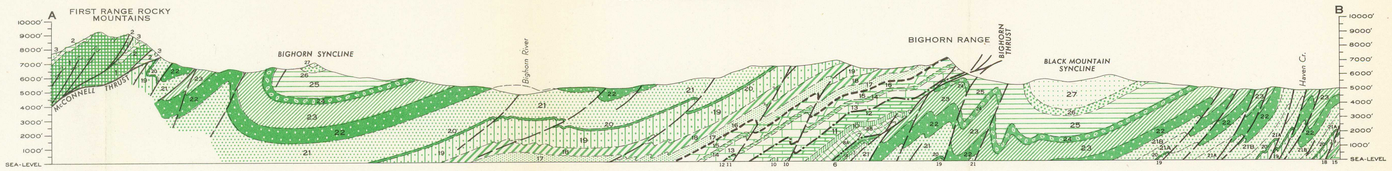
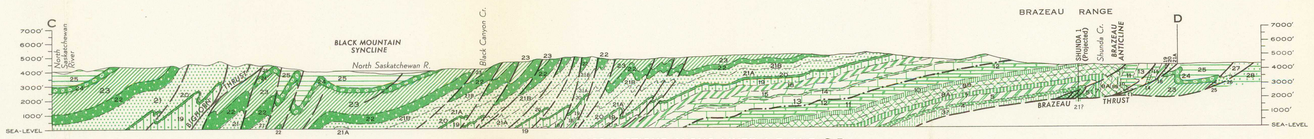
CANADA
DEPARTMENT
OF
MINES AND TECHNICAL SURVEYS
GEOLOGICAL SURVEY OF CANADA





DIAGRAMMATIC CROSS-SECTIONS ALONG LINES A-B AND C-D

SHEET 83 C/D

LEGEND

CENOZOIC

TERTIARY

PALEOCENE

28 — *PASKAPOO FORMATION: (in structure-section C-D only)*

MESOZOIC

CRETACEOUS

UPPER CRETACEOUS

27 — *BRAZEAU FORMATION: greenish grey sandstone, conglomeratic sandstone, and shale*

ALBERTA GROUP (24-26)

26 — *WAPIABI FORMATION (Upper part): sandstone, siltstone, concretionary shale; grit and conglomerate*

25 — *WAPIABI FORMATION (Lower part): fissile, silty, and concretionary shale; siltstone; grit, and conglomerate*

24 — *BIGHORN FORMATION: grey sandstone, conglomerate, and shale*

23 — *BLACKSTONE FORMATION: fissile, silty, and concretionary shale; siltstone, grit, and conglomerate*

LOWER CRETACEOUS

22 — *MOUNTAIN PARK FORMATION: massive green sandstone, conglomeratic sandstone; shale and silty shale*

21 — *LUSCAR FORMATION*
21. *Undivided*
21A. *(Lower part): grey sandstone, fissile dark grey shale; thin coal seams*
21B. *(Upper part): massive, greenish grey sandstone and conglomeratic sandstone; shale; coal seams*

20 — *CADOMIN FORMATION: chert and quartzite pebble conglomerate and conglomeratic sandstone*

19 — *NIKANASSIN FORMATION: grey sandstone, fissile dark grey shale, thin coal seams*

JURASSIC

FERNIE GROUP

18 — *Fissile shale, massive and thin-bedded sandstone, black cherty and phosphatic carbonate*

TRIASSIC

17 — *SPRAY RIVER FORMATION: thinly bedded siltstone and silty shale; dolomite*

PALÆOZOIC

PENNSYLVANIAN?

16 — *ROCKY MOUNTAIN FORMATION: massive chert; arenaceous dolomite and quartzite*

MISSISSIPPIAN

RUNDLE GROUP (14, 15)

15 — *MOUNT HEAD FORMATION: dense and porous dolomite; limestone; green and grey shale; breccia*

14 — *LIVINGSTONE FORMATION: cryptocrystalline to coarsely crystalline limestone; finely crystalline dolomite*

13 — *BANFF FORMATION: argillaceous and cherty limestone, fissile and calcareous shale*

DEVONIAN

12 — *EXSHAW FORMATION: fissile black shale*

11 — *PALLISER FORMATION: massive mottled limestone and dolomite; porous and vuggy dolomite; argillaceous limestone*

10 — *ALEXO FORMATION: silty dolomite, sandstone; dolomite breccia*

FAIRHOLME GROUP (5-9)

8 — *MOUNT HAWK FORMATION:*
8. *Undivided*
8A. *(Lower part): greenish grey dolomitic shale*
8B. *(Upper part): brown cherty dolomite; dark grey argillaceous limestone*

9 — *SOUTHESK FORMATION: massive vuggy, light brown dolomite; equivalent to 8 and part of 7*

7 — *PERDRIX FORMATION: dark grey fissile shale; thinly bedded limestone*

6 — *CAIRN FORMATION: massive, dark brown dolomite, cherty, fossiliferous dolomite; equivalent to 5 and part of 7*

5 — *FLUME FORMATION: cherty fossiliferous dolomite; argillaceous limestone*

CAMBRIAN OR LATER

4 — *GHOST RIVER ? FORMATION: dolomite and arenaceous dolomite*

CAMBRIAN

UPPER CAMBRIAN

3 — *FORMATION C: green shale; dolomite and arenaceous dolomite*

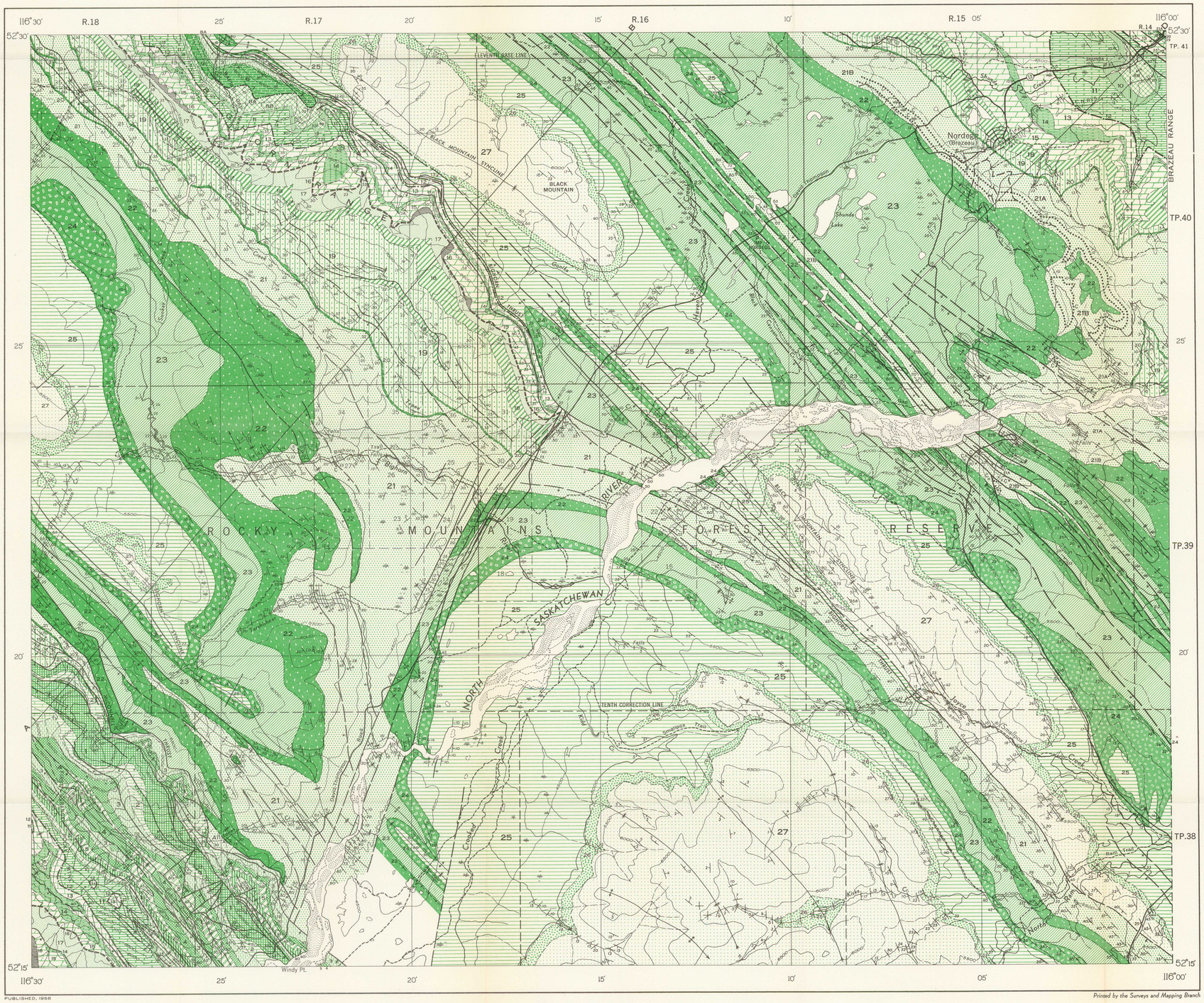
MIDDLE CAMBRIAN?

2 — *FORMATION B: argillaceous limestone; mottled and banded limestone and dolomite*

1 — *FORMATION A: massive mottled grey limestone; green shale*

Bedding (horizontal, inclined, vertical, overturned)
Rock outcrop
Coal outcrop and trace of seam
Fault (showing direction of dip)
Fault (presence or position uncertain)
Anticlinal axis (showing direction of plunge)
Synclinal axis (showing direction of plunge)
Coal mine adit
Well (abandoned)

Geology by B. R. MacKay, 1940, R. J. W. Douglas, 1953, 1954
Cartography by the Geological Cartography Unit, 1956



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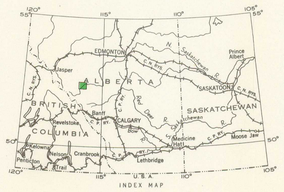

PRELIMINARY MAP 55-34

NORDEGG

WEST OF FIFTH MERIDIAN

ALBERTA

Scale: One Inch to One Mile = $\frac{1}{63,360}$

Miles

1 ½ 0 1 2 3

Approximate magnetic declination 24° 24′ East

Main highway
Other roads
Trail
Township boundary (surveyed, unsurveyed)
Section line
Intermittent lake and stream
Marsh
Sand or gravel
Contours (interval 500 feet)

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

PRELIMINARY MAP 55-34
NORDEGG
ALBERTA

SHEET 83 C/D

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