



GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

PRELIMINARY SERIES



LEGEND

QUATERNARY

POSTGLACIAL DEPOSITS

12 13 Alluvium (modern stream deposits): locally includes slump material and bedrock exposures
13. Silt, clay, minor sand, gravel
12. Sand, gravel, silt, minor clay; 12a, mainly gravel

11 Wind deposits: sand, silt; includes blow-out areas;
11a, wind deposits on outwash

LATE-GLACIAL AND EARLY POSTGLACIAL DEPOSITS

Lake deposits

8 9 10
10. Clay, minor silt
9. Silt, minor clay and sand; locally varved
8. Sand, silt, minor clay; includes some alluvium

6 7 Alluvium (in glacial spillways or early postglacial terraces along modern rivers): locally includes bedrock exposures
7. Silt, clay, minor sand, gravel; 7a, in deltas built into glacial lakes
6. Sand, gravel, minor silt, clay; 6a, in deltas built into glacial lakes

GLACIAL DEPOSITS

5 Outwash: gravel, sand, minor silt; includes some inwash and kame deposits

4 Inwash: gravel, sand, minor silt; includes some outwash

3 Hummocky moraine (Laurentide): till; 3a, mostly covered by thin lake silt and sand; 3b, morainal topography weakly developed

2 Ground moraine (Laurentide): till; 2a, thin over bedrock; 2b, mostly covered by thin lake silt and sand

LATE TERTIARY OR EARLY QUATERNARY

PREGLACIAL DEPOSITS

1 Alluvium: gravel, sand; 1a, locally covered by thin till

R Bedrock, exposed (Cretaceous)

Geological boundary (defined, approximate)

Preferred orientation of stones in top till

Geology by A. MacS. Stalker, 1963-64

Geological cartography by the Geological Survey of Canada, 1965

Road, all weather

Road, dry weather

Cart track

Trail or portage

Railway

Township boundary

Section line

Indian Reserve boundary

Post Office

Intermittent lake and stream

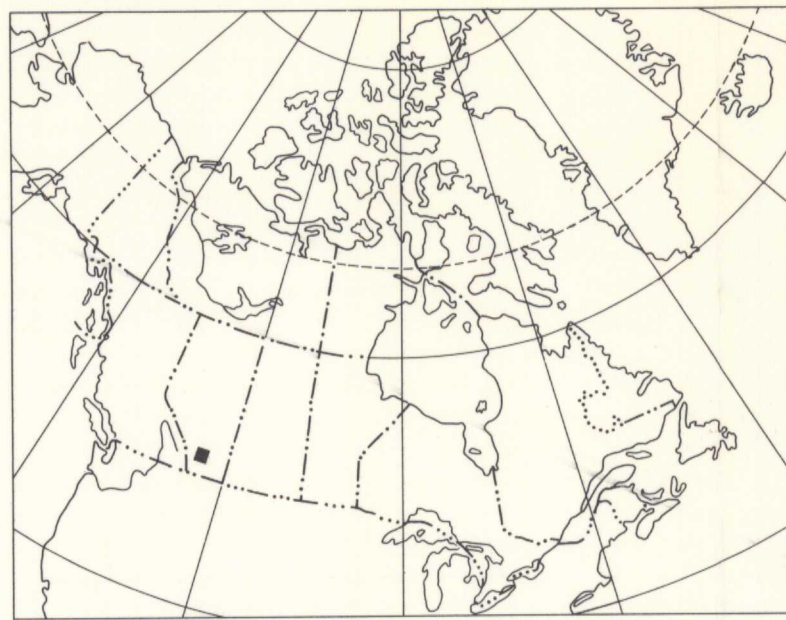
Marsh

Contours (interval 100 feet)

Height in feet above mean sea-level

Base-map compiled and drawn by the Surveys and Mapping Branch, 1959

Mean magnetic declination 20° 44' East, decreasing 3.3' annually.
Readings vary from 20° 18'E in the SE corner to 21° 12'E in the NW corner of the map-area

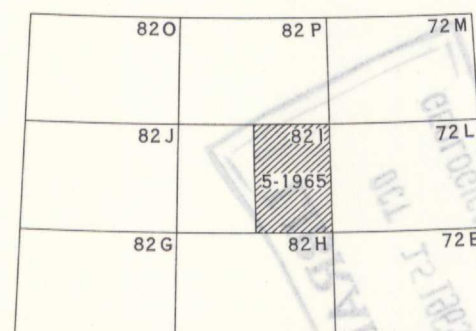
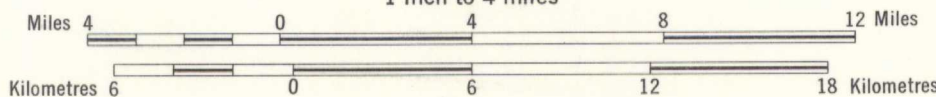


INDEX MAP

Published, 1965
Copies of this map may be obtained from the
Director, Geological Survey of Canada, Ottawa

MAP 5-1965
SURFICIAL GEOLOGY
BASSANO
(Gleichen, East Half)
WEST OF FOURTH MERIDIAN
ALBERTA

Scale 1:253,440
1 inch to 4 miles



BASSANO
ALBERTA