

Diagrammatic structure section along line A-B

## LEGEND

- CARBONIFEROUS**
- PENNSYLVANIAN**
- 4 Mainly grey sandstone and shale; quartz-pebble conglomerate
- MISSISSIPPIAN**
- WINDSOR SERIES**
- 3 Limestone; may be some gypsum
- MONCTON GROUP**
- 2 Mainly feldspathic grit and conglomerate; minor red sandstone and shale
- PRE-CARBONIFEROUS**
- 1 Mainly quartzite and schist; minor granitic intrusions

Bedding (inclined, horizontal) ..... +  
Observed rock outcrop ..... x  
NOTE. Observed rock outcrops may be indicated either by a cross, x, or by a bedding symbol.

Road and buildings .....  
Road not well travelled .....  
Bush road or trail .....  
Railway stop .....  
Power transmission line .....  
Church .....  
School .....  
Cemetery .....  
County boundary (position approximate) .....  
Stream (position approximate) .....  
Intermittent stream .....  
Marsh .....  
Height in feet above Mean sea-level ..... 243'

Geology by J.S. Stewart, 1939.

Base-map prepared by the Topographical Survey, 1938, from Federal Government map published in 1935. Cartography by the Drafting and Reproducing Division, 1940.

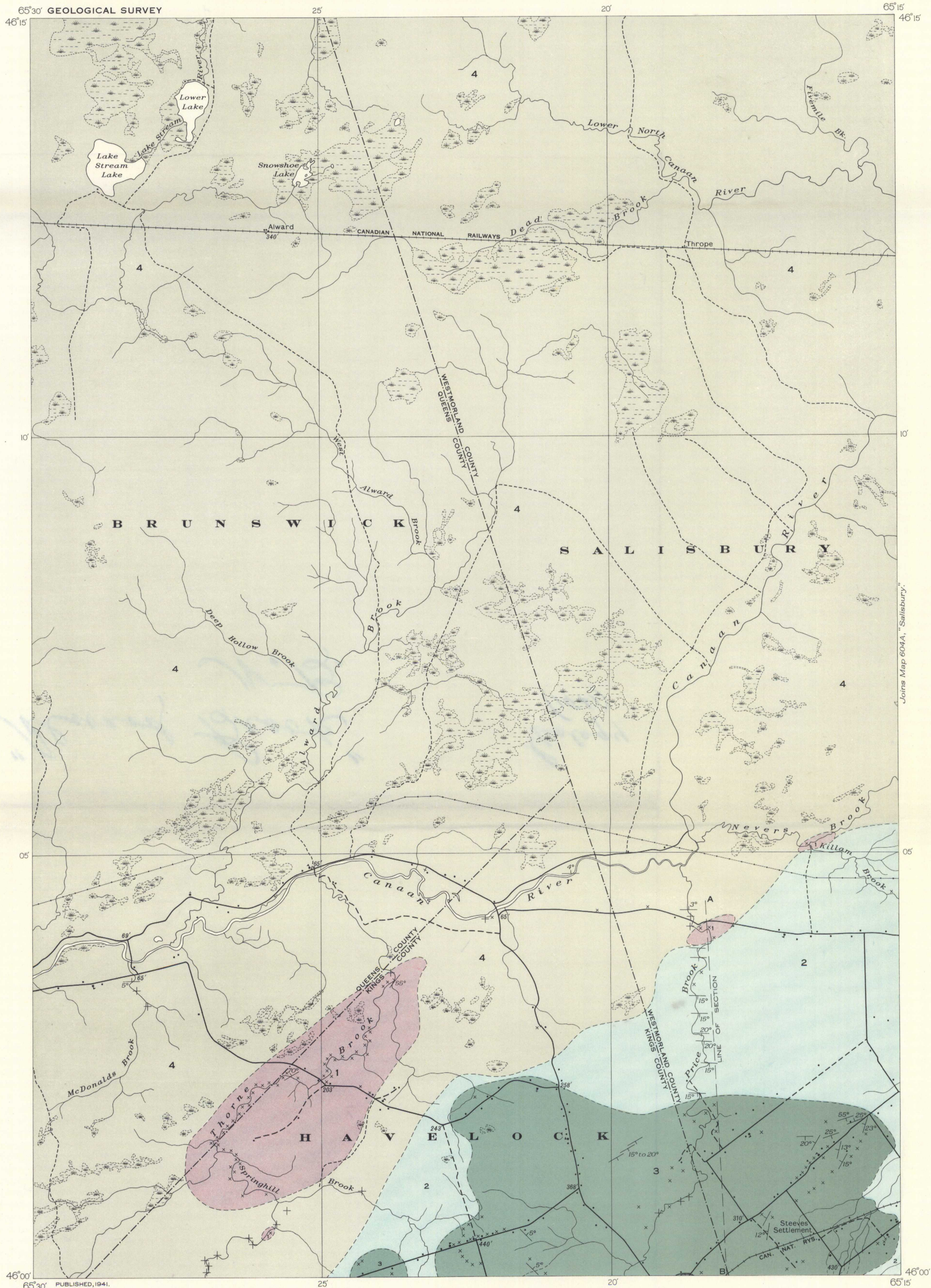
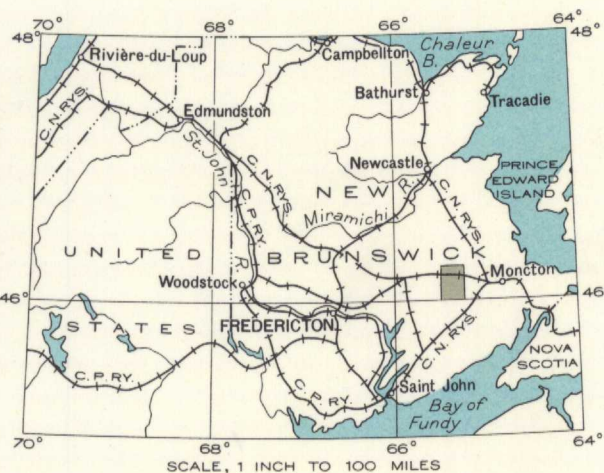
## DESCRIPTIVE NOTES

A complete section of the Moncton group (2) is exposed on Price brook. It consists, mainly, of red, feldspathic grits and conglomerates but includes some red sandstone and shale. The total thickness is about 2,850 feet. The basal beds here rest unconformably on pre-Carboniferous rocks (1) but farther east, along North river in the adjoining Salisbury map-area, the Moncton group is conformable with and shows a gradation into underlying grey shale and sandstone of the Albert formation.

The Windsor series (3) appears to be conformable with underlying Moncton strata. The series is best exposed near Havelock where it consists mostly, if not entirely, of limestone and is at least 185 feet thick. Neither top nor bottom is exposed.

The Petitcodiac group (4) overlaps the Mississippian formations and, consequently, is structurally unconformable with them. Contacts with the Moncton group and Windsor series are concealed in this map-area but, in places, Petitcodiac beds were observed resting on pre-Carboniferous rocks. On Price brook, outcrops of the Petitcodiac, 100 yards apart, rest on the old, pre-Carboniferous surface at elevations that differ by as much as 50 feet. The basal member of the Petitcodiac group is commonly a conglomerate composed, chiefly, of white quartz pebbles. Along Canaan river, fine-grained, thin, flaggy sandstones form an easily recognized member of the lower part of the group.

The pre-Carboniferous rocks have been closely folded, faulted and much metamorphosed. Mississippian formations in this map-area are gently folded and are unaltered. The Pennsylvanian, Petitcodiac beds dip very gently northwards.



MAP 605A

## ALWARD BROOK

WESTMORLAND, QUEENS, AND KINGS COUNTIES  
NEW BRUNSWICK

Scale, 63,360 or 1 Inch to 1 Mile  
Miles

Approximate magnetic declination, 23°15' West.

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5.1.4 N.B. Alward Brook. Map 605A  
A, Geol. Scale - 1 mi. to 1". 1941

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