

**REPORT ON THE GEOLOGY AND NATURAL  
RESOURCES OF THE AREA INCLUDED IN THE  
NORTHWEST QUARTER-SHEET, NUMBER  
122 OF THE ONTARIO AND QUEBEC SERIES  
COMPRISING PORTIONS OF THE COUNTIES  
OF PONTIAC, CARLETON AND RENFREW**

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**R. W. ELLS**

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*Canada.* GEOLOGICAL SURVEY OF CANADA  
A. P. LOW, DEPUTY HEAD AND DIRECTOR.

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BY  
R. W. ELLS



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EXCELLENT MAJESTY  
1907

No. 977



To A. P. Low, Esq.

*Director, Geological Survey of Canada.*

SIR,—I beg to submit herewith a report on the Geology and Mineral resources of the area contained in the Northwest quarter-sheet map, No. 123, of the Ontario and Quebec series.

This map-sheet comprises portions of the county of Pontiac in the province of Quebec, and of Renfrew and Carleton counties in the province of Ontario. The accompanying lists of fossils are from collections made at different periods by various members of the Geological Survey staff, which have been examined and classified by Dr. H. M. Ami.

I have the honour to be, Sir,

Your obedient servant,

R. W. ELLS.

GEOLOGICAL SURVEY OFFICE,  
May, 1906.

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ON THE  
GEOLOGY AND NATURAL RESOURCES  
OF THE AREA INCLUDED IN THE  
NORTHWEST QUARTER-SHEET, No. 122, OF THE  
ONTARIO AND QUEBEC SERIES

COMPRISING PORTIONS OF THE COUNTY OF PONTIAC, QUEBEC, AND OF  
CARLETON AND BRADFORD COUNTIES, ONTARIO,

By R. W. ELLS.

INTRODUCTION.

The official number of the map-sheet to which this report relates is No. 122, known as the "Pembroke sheet." It lies west of and joins map-sheet No. 121, or the "Granville sheet," and has an area of 3,456 square miles. The eastern limit of the sheet is not far from the Gatineau river, north from Ottawa city, and the southwestern portion is traversed by the Ottawa river from a point about thirty miles west of Pembroke to within ten miles of the city of Hull.

POSITION OF STREAMS.

The area north of the Ottawa is intersected by several large streams. In addition to the Gatineau, which crosses near the eastern margin of the map, from the northern limit of the townships of Northfield and Wright, there are several large branches of this stream from the west. The principal of these is the Pickanock which rises in large lakes, among which Dumont and Squaw lakes, in the unsurveyed area north of the townships of Huddersfield and Clapham, are the most important. The stream joins the Gatineau in the central part of Wright township nearly sixty miles north of the city of Ottawa. Farther south other important tributaries are the Kazabazua, Stag creek and the Pêche river, the last entering the Gatineau near the village of Wakefield.