

# MAR 19760014: OLD FORT RIVER

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PROPOSAL FOR

GEOLOGICAL EVALUATION

ON

OLD FORT RIVER AREA, ALBERTA, CANADA

FEBRUARY, 1976

BY: WOLLEX EXPLORATION LTD.  
Geological Consultants  
CALGARY, ALBERTA, CANADA

TABLE OF CONTENTS

PAGE

SUMMARY

RECOMMENDATIONS

INTRODUCTION

LOCATION AND ACCESS

PHYSIOGRAPHY

HISTORY OF EXPLORATION

GEOLOGICAL SETTING

ECONOMIC GEOLOGY

MAPS

MAP 1      LOCATION MAP

MAP 2      LOCATION MAP

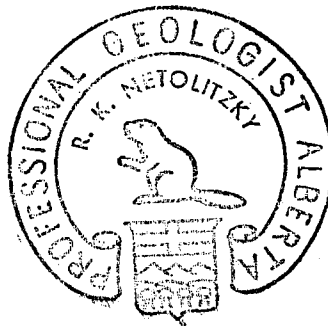
MAP 3      GEOLOGICAL MAP

C E R T I F I C A T E

I, the undersigned, R. K. NETOLITZKY, of the City of Calgary, in the Province of Alberta, do hereby certify:

1. that I am a Professional Geologist with an office mailing address at #1512, 727 Sixth Avenue S.W.
2. that I graduated from the University of Alberta, Edmonton with a Bachelor of Science degree in 1964; and from the University of Calgary, with a Master of Science degree in 1967.
3. that I am a registered Professional Geologist with the Association of Professional Engineers of Alberta.
4. that I have been practicing my profession as a geologist for nine years.

DATED AT CALGARY, ALBERTA, this 19 day of February, 1976.



*R. K. Netolitzky*  
R. K. Netolitzky, M.Sc., P.Geol.

## OLD FORT RIVER PROPERTY

### SUMMARY

The Old Fort River Property is located immediately north of the inferred Athabasca sandstone crystalline shield contact. Extensive drift cover masks the contact region.

Little to no data are available regarding crystalline rocks and the nature and location of the Athabasca Formation within the region. The Carswell structure mineralization in Saskatchewan is 25 miles to the northeast. This uranium enrichment took place prior to the development of the domal feature and is closely affiliated with the Athabasca unconformity.

On the basis of the Athabasca conformity being present in the prospect area at shallow depths, it is considered to warrant an exploration effort.

## RECOMMENDATIONS

It is recommended that an exploration program be conducted on the property commencing in June, 1976, and the program should consist of:

### PHASE I

#### 1. Prefield Preparation

Acquisition and compilation of available field data. Establish horizontal control in the field by enlarging vertical aerial photographs and cutting of base line.

Air photo study to define surficial deposits and to complete lineament analysis.

#### 2. Field Program

Reconnaissance lake water and sediment geochemistry survey. Lakes and ponds to be sampled in approximately one mile grid. Sample site to be selected from air photo study.

Mapping of the property, utilizing the air photo interpretation for any outcrop data.

Placement of Track Etch cups at 1,000 foot centers and recovery of Radon 222 Track Etch cups.

Contingent upon the reconnaissance results, anomalous areas would be examined in detail by placing Track Etch cups at 200 to 300 foot centers, supplemented by detailed prospecting and geochemical surveys.

#### 3. Postfield Program

Interpretation of all field data and compilation of final maps and report.

### PHASE II

Contingent upon the results of Phase I, a drill program would be necessary to evaluate anomalous areas.

The estimated expenditures required to conduct this program are as follows:

PHASE I

1. Prefield Preparation

Air photographs and enlargements	\$ 500.00
Acquisition and research of all technical information	400.00
Cutting of base line, 5 miles @ \$200/mile	1,000.00

2. Field Program

Lake geochemistry program - 20 to 30 samples	1,000.00
Placement and collection of cups and samples - max. 400 cups	5,000.00
4 men for 1 month	6,800.00
Supervision	1,000.00
Geochemical analysis	500.00
Equipment, food and accommodation @ \$15/man/day - 4 x 15 x 30	1,800.00
Mobilization and demobilization Calgary - Old Fort River Area	2,000.00
Service flights and camp moves	1,000.00

3. Postfield Program

Office evaluation of results and final report	1,000.00
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\$22,000.00

Contingencies @ 10%	2,200.00
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\$24,200.00

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PHASE II

Drill program, say	<u>\$100,000.00</u>
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SCHEDULE

APPLICATION FOR A QUARTZ MINERALS EXPLORATION PERMIT FILED BY  
TAIGA CONSULTANTS LIMITED

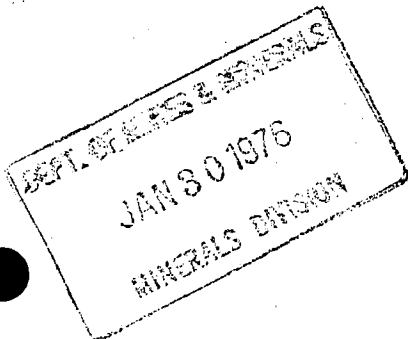
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West of the 4th Meridian

Sec's. 25, 35 & 36 All

In Township 105, Range 1,  
West of the 4th Meridian

Sec's. 1, 2 & 3 All  
Sec's. 10 to 15 incl. All  
Sec. 24 All

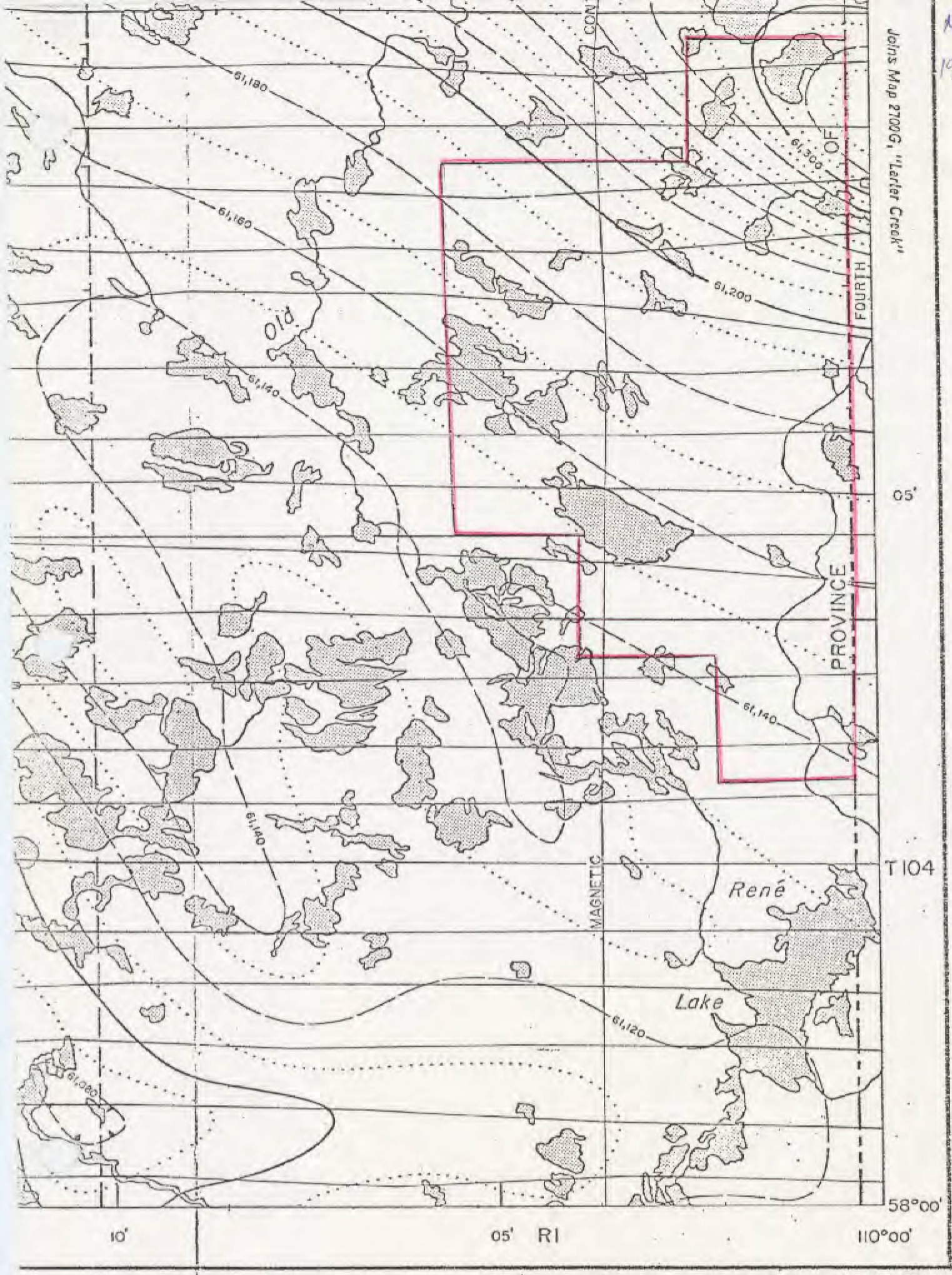
13 Sections





Map 1  
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Johns Map 2700G, "Larler Creek"



Magnetic Survey, August to October 1962,  
by Aero Surveys Ltd.

No correction has been made for regional variation

The planimetry for this map was obtained  
from the topographical map sheet, published at a  
scale of one inch to one mile, supplied by the  
Department of Lands and Forests, Province of  
Alberta.

The magnetic data on this map were compiled from information recorded along the flight lines shown. The anomalies expressed by the magnetic contours are dependent on the variable magnetic intensities of the underlying rocks, and may be due to conditions near, or at unknown depths below the surface. High magnetic anomalies normally indicate the presence of basic rocks, such as diabase, gabbro, or serpentinite, which have a relatively high iron content; but in special instances may be due, or partly due, to concentrations of magnetic minerals. By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced into, or across, areas of few or no outcrops. In many instances, however, no interpretation of particular anomalies may be possible without further geological information.

GEOPHYSICS PAPER 2844  
ARCHER LAKE  
ALBERTA  
SHEET 74  $\frac{1}{1}$

PUBLISHED, 1963



## Disclaimer

This page was inserted by the Coal and Minerals Development Branch, to provide a reference that the map 2 and 3 associated with this report is not contained in the assessment report on file.