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PROGRESS REPORT

MINERAL EXPLORATION PERMITS

132 133 and 134

IN THE PROVINCE OF ALBERTA

Anthony Rich

and

John A. Greig

Department of Geology
University of Alberta
Edmonton, Alberta

Progress of Examination

An airborne radiometric survey covering all of permits 132, 133 and 134 was conducted by Geo-X Surveys Ltd of Vancouver. The instrument employed in this survey was an 'Exploranium DIGRS-2000', 4-channel spectrometer equipped with three 6" x 4" crystals. The radiometric results are presented on the attached map. Flight line locations for the survey are also given.

Background for the Bi\textsuperscript{214} radiation is about 8 counts per second throughout. Numerous anomalies are evident and some of these show intensities of 3 times background. Examination of the individual recorded readings over the anomalous areas show spot intensities of 4 to 5 times background.

Many of the anomalies can be related to favourable geological structures. This was determined with reference to aerial photographs and the structural map presented in the geological report.

A detailed field program of scintillometer prospecting, geological mapping and geochemical sampling was conducted during the period May through August of 1969. This field work was carried out by R. Turner, geologist, and R. McLean, engineer, who were employed full-time on the property. They were accompanied part-time by J. Greig and A. Rich.

The area covered by field work includes the western 2/3 (approx.) of permit 132, centering around Loutit Lake, a small area in the northeastern part of permit 132 and the southern part of permit 134. Final results of the airborne radiometric survey were not available until September 1969. Some radiometric profiles were made available at the time of flying and some anomalies from these profiles were checked on the ground in the N.E. part of permit 132.
Numerous small but encouraging radioactive occurrences were discovered in the course of field work. These are located mainly in the environs of Loutit Lake. The southern part of permit 134 proved to be less encouraging. Results of the field program are given in the attached geological report.

Information gained from the field work, the airborne survey and other geological criteria was used in order to reduce the total area held under permit. It is proposed to surrender permit 134 in its entirety, and it is proposed to reduce the area of permits 132 and 133 (approximately 40,000 and 49,920 acres respectively) to areas of 20,480 and 18,560 acres respectively as per the attached map. A schedule of lands is included in this report.

Plan of Examination for the 1970 Field Season

It is proposed to carry out further detailed groundwork, mapping and rock sampling, on the more promising showings found in 1969 and, where warranted, trenching and further sampling. Detailed ground surveys will be conducted in the regions of the airborne radiometric anomalies. This will consist primarily of scintillometer prospecting and detailed geological mapping. Promising surface showings will be sampled and where it is warranted these will be trench. Contingent on the results of trenching, the program may be stepped up to include drilling.

Reconnaissance geological mapping will be done outside the anomalous areas to check favourable geological environments for the localization of uranium. Base metal and precious metal possibilities in the permit areas will not be overlooked. Before the commencement of field work, it is intended to carry out a more detailed interpretation of the computerized radiometric data.
Estimated Costs for the 1970 Exploration Program

Further interpretation of the airborne radiometric data $500.00

Preliminary exploration - geological mapping and prospecting including:

Salaries
Camp equipment
Camp supplies
Assays
Mobilization and support aircraft
Supervision $5000.00

Trenching - contingent on results of preliminary program $5000.00

Total $10,500.00
STATUTORY DECLARATION

Approximate costs of the 1969 exploration program carried out on Quartz Mineral Exploration Permits 132, 133 and 134 in the Province of Alberta.

### Airborne radiometric survey

|$8,370.00$

### Field exploration

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<tr>
<th>Description</th>
<th>Amount</th>
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<tr>
<td>Camp equipment</td>
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<td>Salaries</td>
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**TOTAL** $11,351.07 $11,350.00

**TOTAL** $19,720.00

I, Anthony Rich of Edmonton Alberta, certify that the above is a true accounting of the costs incurred in the exploration of Quartz Mineral Exploration Permits 132, 133 and 134 for the period April 1, 1969 to the present.

Sworn and subscribed to in the City of Edmonton in the Province of Alberta this 30th day of March 1970.

Anthony Rich

Notary
SCHEDULE

to Quartz Mineral Exploration Permit No. 132

IN TOWNSHIP ONE HUNDRED AND FIFTEEN (115), RANGE FIVE (5),
WEST OF THE FOURTH (4) MERIDIAN:

Sections 4 to 11 inclusive, sections 14, 15 and 16,
section 22, sections 25, 26 and 27, sections 33 to 36 inclusive,

AND

IN TOWNSHIP ONE HUNDRED AND FIFTEEN (115), RANGE SIX (6),
WEST OF THE FOURTH (4) MERIDIAN:

Sections 1 and 2, sections 11 to 14 inclusive,
sections 23 to 27 inclusive, and sections 34 and 35.

containing an area of Twenty Thousand - Four Hundred and Eighty (20,480) acres, more or less.
SCHEDULE

to Quartz Mineral Exploration Permit No. 133

IN TOWNSHIP ONE HUNDRED AND SIXTEEN (116), RANGE FIVE (5),
WEST OF THE FOURTH (4) MERIDIAN

Sections 4 to 9 inclusive; sections 17 to 20 inclusive;
sections 30 and 31.

AND

IN TOWNSHIP ONE HUNDRED AND SIXTEEN (116), RANGE SIX (6),
WEST OF THE FOURTH (4) MERIDIAN

Sections 2 and 3; sections 10 to 15 inclusive;
sections 22 to 27 inclusive and sections 34, 35 and 36

containing an area of Eighteen Thousand - Five Hundred and Sixty
(18,560) acres more or less.