

MAR 19670021: NORTHEASTEN ALBERTA

Received date: Dec 31, 1967

Public release date: Jan 01, 1969

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CHIEFTAIN DEVELOPMENT CO. LTD.

10975-124 STREET
EDMONTON, ALBERTA

ECONOMIC MINERALS
FILE REPORT No.
<u>U-AF-011(1)</u>

19670021

November 21, 1967

Department of Mines and Minerals
Minerals Division
Agriculture Building
9718 - 107 Street
EDMONTON, Alberta

Attention: J. W. Patrick,
Director of Minerals

Gentlemen:

Re: Quartz Mineral Exploration
Permit No. 34

We return herewith the original copy of the above quartz mineral exploration permit and ask your favourable consideration to the cancellation of this permit and the return of the company's deposit.

*not found
on Permit
- not relevant*

→ Samples of ore were presented to Chieftain, supposedly from a location enclosed in the above permit and on assay the following results were obtained:

Spectrographic Analysis

Major Constituents -	Iron, <u>Copper</u>
Less than 1.0%	- Silicon
0.01% - 0.1%	- Magnesium, Nickel, Aluminum, Cobalt, Calcium
0.001% - 0.01%	- Manganese
No. 1 -	Gold - Trace
	Silver - Trace
	Copper - 9.82%

Continued.....2

In good faith, the company filed on this permit and immediately put a geological party in the field under the direction of Mr. Frank F. Gray, Northern Resource Consultants Ltd. of Calgary. Excerpts from his reports are as follows:

"We were unable to find any indications of mineralization. There are abundant exposures of bedrock, which were uniformly of red to grey coarse crystalline massive granite. The rock has been scoured by glaciation into smooth rounded knobs with little soil and a scattering of Jack Pine, alternating with small valleys with muskeg and a fairly dense growth of small black spruce, poplar, birch and lower bushes.

The granite has well developed and regular jointing, trending N-S, NW-SE, and NE-SW. It is roughly equigranular, but locally has a weak gneissic texture. There is no evidence of mineralization or of shear or contact zones which might be favourable to mineralization. Two barren quartz veins were observed, about 1/2 mile apart. One was 4" wide, vertical, striking north-south, with a length of 20 feet exposed. The second was a short lens with a width of about 2 feet and about 3 feet in length, pinching out at either end.

These granites would be classified as "plutonic" or very deep-seated granites, the roots of a very old (Proterozoic) mountain range. The geologic map indicates in addition that the area is a part of a very large granitic area. As a general rule, the ore deposits of the Canadian Shield are found in structural basins where the intruded, altered and replaced sedimentary metamorphic or volcanic rocks have been preserved, or in the contact zones of the granite. The deep seated granites, which formed at much higher temperatures, do not as a rule carry mineralization. The area would, therefore, have to be regarded as unfavourable for significant development from a geological point of view, even if the reported mineral occurrence were found. I cannot recommend further work or retention of the Permit, although if you are unable to recover your deposit, it would probably be worthwhile to spend a few more days in the area prospecting the surface outcrops before any further rentals or fees are due."

As you will note from the above, the information supplied by the prospector was in error and we were unable to

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locate any mineralization. The prospector was taken in to the location, and he in turn was unable to point out to our geologist the location from which the samples were obtained. We therefore feel that any further work on this permit would be a waste of money and time. We would prefer to drop the permit and continue exploration in the area with proper geological guidance and file on new prospects as we turn them up.

We realize that this is rather an unusual request but we were unfortunately misled in this instance, but feel that we have demonstrated our good faith to your department by the aggressive manner in which the initial work was conducted.

Thanking you for your consideration.

We remain,

Yours very truly,

CHIEFTAIN DEVELOPMENT CO. LTD.



S. A. Milner,
President

SAM/db
Enc.

QUARTZ MINERAL EXPLORATION PERMIT NO. 34

Quartz Mineral Exploration Permit No. 34 was issued to Chieftain Development Company Ltd. in November 1967. The permit was cancelled in January 1968. No formal report was submitted but the Council received a letter pertaining to the permit (in response to a letter of inquiry by J. D. Godfrey).

SCHEDULE
to Quartz Mineral Exploration Permit No. 34

IN TOWNSHIP ONE HUNDRED AND TWENTY-TWO (122), RANGE SEVEN (7),
WEST OF THE FOURTH (4) MERIDIAN:

Sections Twenty-nine (29) to Thirty-two (32)
inclusive;

AND

IN TOWNSHIP ONE HUNDRED AND TWENTY-THREE (123), RANGE SEVEN (7),
WEST OF THE FOURTH (4) MERIDIAN:

Sections Four (4) to Nine (9) inclusive, Sections
Fifteen (15) to Twenty-two (22) inclusive and Sec-
tions Twenty-seven (27) to Thirty-four (34) inclu-
sive;

AND

IN TOWNSHIP ONE HUNDRED AND TWENTY-FOUR (124), RANGE SEVEN (7),
WEST OF THE FOURTH (4) MERIDIAN:

Sections Three (3) to Ten (10) inclusive;

AND

IN TOWNSHIP ONE HUNDRED AND TWENTY-TWO (122), RANGE EIGHT (8),
WEST OF THE FOURTH (4) MERIDIAN:

Sections Twenty-five (25) to Twenty-eight (28)
inclusive and Sections Thirty-three (33) to
Thirty-six (36) inclusive;

AND

IN TOWNSHIP ONE HUNDRED AND TWENTY-THREE (123), RANGE EIGHT (8),
WEST OF THE FOURTH (4) MERIDIAN:

Sections One (1), Two (2) and Three (3), Sections
Ten (10) to Fourteen (14) inclusive, Sections
Twenty-three (23) to Twenty-six (26) inclusive and
Sections Thirty-five (35) and Thirty-six (36);

AND

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SCHEDULE (continued)
to Quartz Mineral Exploration Permit No. 34

IN TOWNSHIP ONE HUNDRED AND TWENTY-FOUR (124), RANGE EIGHT (8),
WEST OF THE FOURTH (4) MERIDIAN:

Sections One (1), Two (2), Eleven (11) and Twelve
(12);

containing an area of Thirty-eight Thousand, Four Hundred (38,400)
acres, more or less.