

MAR 19700021: NORTHEASTERN ALBERTA

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19700021

ECONOMIC MINERALS
FILE REPORT No.
U-AF-099(1)

GEOLOGICAL REPORT
of
QUARTZ MINERAL PERMIT #145
(Northeastern Alberta)
November, 1970



ECONOMIC MINERALS

FILE REPORT No.

U-AF-099(1)

REPORT ON THE GEOLOGICAL EVALUATION OF
QUARTZ MINERAL PERMIT
145
OF NORTH-EASTERN ALBERTA

PREPARED FOR

VISION DEVELOPMENT LTD.

OCTOBER, 1970

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DESCRIPTION OF PROPERTY

Quartz Mineral Exploration Permit #145

Township 121, Range 5, West of 4M
Sections 20, 21, 28 to 33 inclusive

Township 122, Range 5, West of 4M
Sections 6, W 1/2 of 5

Township 121, Range 6, West of 4M
Sections 25, 26, 35 and 36.

Township 122, Range 6, West of 4M
Sections 1 and 2

Containing 9,920 acres.

INTRODUCTION

This report has been prepared at the request of the Department of Mines and Minerals, Government of Alberta, Edmonton, Alberta in compliance with the existing regulations governing Quartz Mineral Exploration permits within the Province.

The object of this study is to ascertain the economic potential of possible mineral deposits within the acquired permit area. The report presents the results of an investigation and examination in the field where samples were taken and subsequently assayed with an emission control spectrograph.

LOCATION, TOPOGRAPHY AND ACCESS

Direct access to this region is gained to Fort Chipewyan by air from Edmonton and a float equipped Cessna 185 to Hooker Lake. The permit lies approximately twenty-two miles east of Hay Camp on the navigatable Slave River. Travel within the area itself is very difficult and can only be economically accomplished by means of float or ski equipped fixed wing aircraft or helicopter.

The topography of the Precambrian Shield east of the Slave River is generally a gentle undulating surface of low rounded hills of granite, however, deep valleys and fault scarps up to 250' high are

encountered. The area is mainly Precambrian out crop with numerous glacially-scoured lakes and muskeg areas. Local relief up to 400' is probably maximum in the area of Hooker Lake.

The valleys are wooded with spruce, fir and poplar. Scrubby muskeg and open watery muskegs are confined to the low areas.

THE WORK

A three man prospecting crew landed on Hooker Lake in June, 1970 for the main purpose of obtaining interesting samples on the minor faults in the permit area. Travel or walking was severely curtailed due to the dead fall and water laden muskeg in the low areas. However, a total of sixty-three samples were extracted from the faults in the permit area revealing the conclusion that the area was well covered by the prospecting crew.

GENERAL GEOLOGY

A large concentration of vein and related types of mineralization are known to occur along the Slave River and exceeding 40 miles in width to the east, northward of Fort Chipewyan. Metalliferous vein deposits are generally recognized to be genetically and spatially related to faulting. Therefore, structural control can be used to delineate the

most promising prospecting areas as well as eliminating much of the unfavourable locations.

The rocks within the permit area are of Precambrian age. The strata have been intensely altered, folded and faulted lending itself to be considered as a highly interesting prospective area for mineralization to occur.

Much of the terrain is composed of granite and related rocks, and of complexes made up of gneisses, migmatites and granitized rocks. The intense deformation resulted in brecciation fracturing and mylonitization of these rocks which are prime areas to prospect for mineral occurrence, and in particular those of the meta-sediments.

The permit faults are mainly on a east-north-east strike and are expressed as shear zones of one to two miles in width with many minor faults and shears present at several angles. Some linear belts were found to emanate radio activity as recorded by a 111B Precision Scintillometer and a W56 Fisher Scintillodyne especially in or near fissures or cracks in the rock.

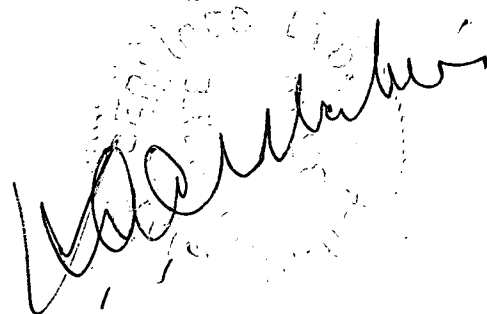
SUMMARY

The permit is in an area which forms the Canadian Shield in the province of Alberta. Within this geologic province, numerous occurrences and concentrations of mineral deposits are known. The deposits found in

this general area, mainly vein and related types that often are genetically and spatially related to fault and shear zones. Metalliferous occurrences, were found to be quite numerous, but not very significant, and discussing them individually is beyond the scope of this report.

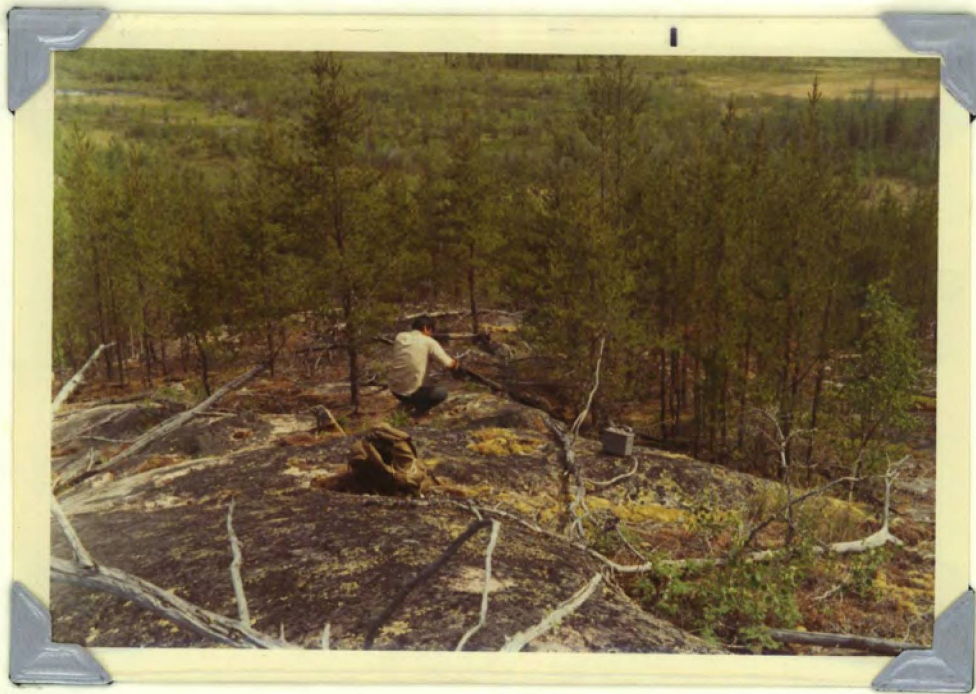
RECOMMENDATIONS

The results of the emission spectograph on all samples does not indicate mineralization of interest and it is therefore suggested that on the basis of this program, that no further expense is justified.

A handwritten signature in cursive script is written over a faint, circular stamp. The stamp contains some illegible text, possibly a date or a reference number, but it is too light to read clearly.



Author and Guide examining
fractured fault



Guide Obtaining Rock Sample

QUARTZ MINERAL EXPLORATION PERMIT No. 145

174m/10)

VISION DEVELOPMENT LTD.,
50th. STREET & FORT ROAD,
STATION C,
EDMONTON, ALBERTA

DATE OF ISSUE - NOVEMBER 3, 1969
AREA - 9,920 ACRES

TP.122

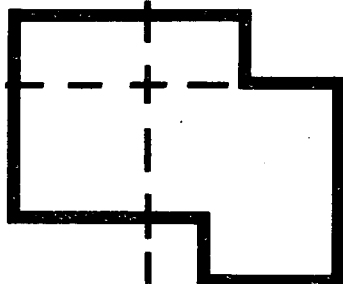
TP.121

TP.120

R. 6

R. 5

R. 4 W. 4 M.



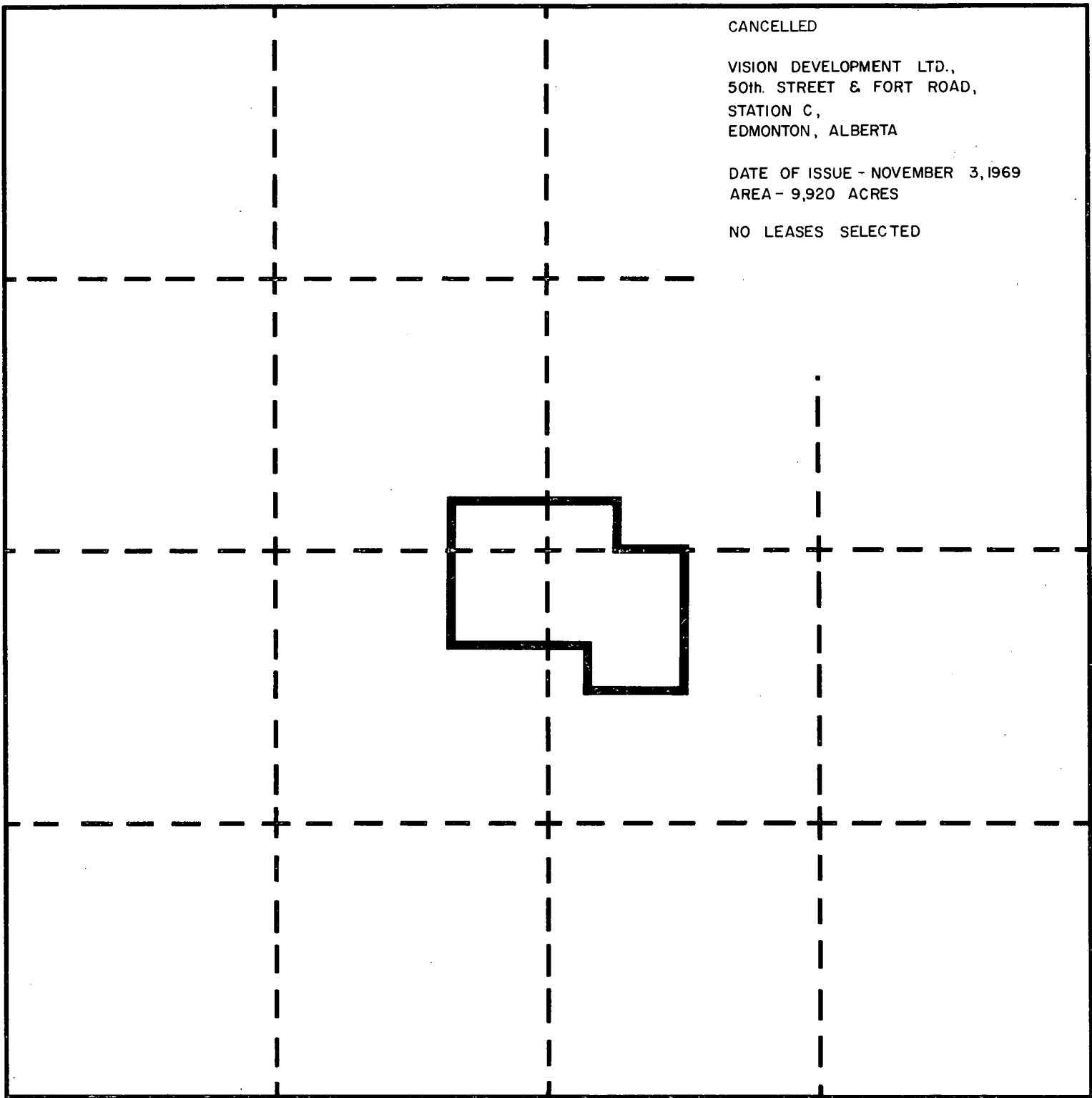
QUARTZ MINERAL EXPLORATION PERMIT No. 145

CANCELLED

VISION DEVELOPMENT LTD.,
50th. STREET & FORT ROAD,
STATION C,
EDMONTON, ALBERTA

DATE OF ISSUE - NOVEMBER 3, 1969
AREA - 9,920 ACRES

NO LEASES SELECTED



TP.122

TP.121

TP.120

R. 6

R. 5

R. 4 W. 4 M.

