MAR 19680003: BEATTY-THOMPSON LAKES

Received date: Dec 31, 1968
Public release date: Jan 01, 1970

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PHOTOCHEMICAL STUDY
ON THE
BEATTY-THURSTON LAKES AREA
ALBERTA

BY

R. D. WESEMANN, P. ENG.

JUNE 8, 1963
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**Attachments**

- Map
INTRODUCTION

A photo-geological study of the Beatty-Thurston Lakes area in the Cameron Hills was undertaken for Mr. Newton Wolverton of Vancouver, British Columbia. The purpose of this study was to outline areas structurally favorable for mineralization. The area studied lies between latitudes 59°47' and 59°59' and longitudes 113°00' and 113°30'. It covers approximately 250 square miles and includes Quartz Mineral Exploration Permit No 5. A photo mosaic was constructed from Alberta Government air photos at a scale of one inch to 3,400 feet. The results of this study were plotted on this mosaic. (see Fig. 1)

REGIONAL GEOLOGY

The area is underlain by formations of Lower Cretaceous age. In general the formations dip at a very low angle to the southwest. Little published geologic information is available on the Cameron Hills region. It has been theorized that major basement faults exposed on the Canadian Shield may extend into this area. These
faults are thought to be related to Devonian reef development and to mineral concentrations. The Pine Point mineral deposits are thought to be so related. Lead-zinc mineralization found in chip samples from oil and gas wells drilled in the Cameron Hills area enhance this possibility.

SURFACE GEOLOGY

The study area has been extensively glaciated by at least two major glacial advances. Lineations from an early advance indicate a south 44° west movement. A later advance moved in a direction of south 60° west. This later advance left thick moraine deposits in the northeast and south central portions of the area.

The photo study was undertaken to locate surface indications of major basement faults. No direct or geomorphic indications of a major fault were found. The glacial advances and moraines obliterated all evidence which may have been in existence.
CONCLUSIONS AND RECOMMENDATIONS

The photo study did not provide encouragement for further mineral exploration in this area. Although lead and zinc mineralization has been reported in several oil and gas wells in this vicinity, it is felt these occurrences are much too deep to be economic at this time.

The study also indicates little useful information will be obtained by surface prospecting in this area. Geophysical methods will have to be used to locate drilling targets. Considering these facts and the large expenditures involved in a geophysical and drilling program, it is felt the risk in this area is too great to recommend further exploration at this time.

June 3, 1968

Respectfully submitted

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QUARTZ MINERAL EXPLORATION PERMIT No. 5

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DATE OF ISSUE - OCTOBER 16, 1967
AREA - 19,200 ACRES