MAR 19680003: BEATTY-THOMPSON LAKES

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PHOTOGECLOGICAL STUDY

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ON THE BEATTY"THURSTON LAKES AREA

ALBERTA

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R. D. WESEMANN, P. ENG.

JUNE 8, 1968

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Map

INTRODUCTION

A photogeological study of the Beatty-Thurston Lakes area in the Generon Hills was undertaken for Hr. Newton Nolverton of Vancouver, British Solumbia. The purpose of this study was to outline areas structurally favorable for mineralization. The area studied lies between latitudes $59^{\circ}47$ ' and $39^{\circ}59$ ' and longitudes $118^{\circ}00'$ and $113^{\circ}30'$. It covers approximately 250 equare miles and includes Quartz Mineral Exploration Permit Ho 5. A photo means was constructed from Alberta Covernment air photos at a scale of one inch to 3,400 feet. The results of this study were plotted on this messic. (see Figure 1)

REGIONAL GEOLOGY

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The area is underlain by formations of Lower Gretacoous age. In general the formations dip at a very low angle to the couthwart. Little published goologic information is evailable on the Cameron Mills region, It has been theorized that major basement faults exposed on the Canadian Shield may extend into this area. These

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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.

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CONCLUSIONS AND RECOMMENDATIONS

The photo study did not provide encouragment for futher 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 usefull 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 8, 1968

Respectfully submitted

R. D. Wesemann, P. Eng.

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QUARTZ MINERAL EXPLORATION PERMIT No. 5



R. 2

R. I. W. 6 M.





PUBLISHED IN 1955

118°30

Scale: One Inch to One Mile I: 63,360 RAILWAY + + + 0 1/4 1/2 3/4 1 TOWNSHIP LINES SURVEYED HIGHWAYS -N-0-TOWNSHIP LINES UNSURVEYED ---paved - gravelled SECTION LINES SURVEYED ALL WEATHER ROAD K J Basic road information-1954 QUARTER SECTION LINES FOREST CLASSIFICATION LEGEND gravelled Road Additions: FOREST RESERVE BOUNDARY . _____ . DRY WEATHER ROAD from photographs OIL FIELD BOUNDARY G H-Recent clear cut Grassland diri from geophysical records FOREST TYPE LINE TRUCK TRAIL Recent portiol cut April 1959 to Sept 1966 Hay meadow HEIGHT OF LAND -x-De B AF Fires and survey revised annually SEISMOGRAPH LINE OR TRAIL SADDLE IN HEIGHT OF LAND Potentially Productive P.P. Marsh, bog or open muskeg . . TELEPHONE OR TELEGRAPH LINE ТТТТ M N State HILLTOP OR MOUNTAIN TOP P.P. '56 +. Average Magnetic Declination 1. PIPE LINE - Pt Burned over area Treed muskeg ----RIVER OVER I CHAIN WIDE in 1955 33°00' East decreasing 7' annually or • 1956 • and year of burn BUILDING . CREEK UNDER I CHAIN WIDE m Barren above timber line AA SETTLEMENT INTERMITTENT CREEK Recent windfall RRR Borren rock MILL SITE M.S. 83 THUTECOURT RAPIDS F G CONTON Stunted due to elevation m DIVISIONAL FOREST HEADQUARTERS 0 GRAVEL BAR, SAND OR MUD CONTENT OF Agricultural or 3 3 all RANGER STATION CUTBANK Brushland other cleared lands FORESTRY CABIN BACCAT MODATIAN MACO . Cr LAKE DENSITY HEIGHT -OOKOUT POINT OF CRAWL TOWER SUB - TYPE 622 LOOKOUT TOWER A - Sparsely stocked INTERMITTENT LAKE Pj or P I - up to 30 feet Ss - Mixed white and black spruce Jack pine USABLE AIRSTRIP BRIDGE

WEST OF SIXTH MERIDIAN

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FORD TRANSMISSION LINE ----

FERRY

FyB - Medium stocked2 - 31 to 60 feetFyC - Fully stocked3 - 61 to 80 feetFdD - Overstocked4 - 81 feet and over 2 - 31 to 60 feet PI Lodgepole pine A - Deciduous Sb Black spruce Fb - Balsom fir 4 - 81 feet and over Sw White spruce Lt - Tamarack Poor forest sites are indicated by: z - Overmature stands are indicated by: I



