

MAR 19680006: WHITE AND LYONS

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19680006

ECONOMIC MINERALS
FILE REPORT No.
CU-AF-007(1)
CU-AF-008(1)
CU-AF-011(1)

KENNCO EXPLORATIONS, (WESTERN) LIMITED

GEOLOGICAL REPORT

QUARTZ MINERAL EXPLORATION PERMIT AREAS
Nos. 10, 11, 18 and White and Lyons Area
Southwestern Alberta

Summary:

Prospecting and geological traversing found no economic significant copper mineralization. The Grinnell formation does not contain thick, well developed beds of quartzite. Minor chalcopyrite, occasional bornite and pyrite occur in thin beds of quartzite in the Appekunny, Grinnell and at the base of the Siyeh formations. Chalcopyrite was also found in dolomitic argillite, dolomite and in limestone in the Kintla (Gateway) formation.

Recommendation:

Because of the paucity of mineralization and low geochemical values, no further work is warranted in the Quartz Mineral Exploration Permit areas. The permits and option should be terminated.

Location:

The permit areas are located in southwestern Alberta, north of Waterton Park, and immediately east of the British Columbia-Alberta border. They comprise about 98,300 acres and are located in parts of Township 3, Range 1; Township 4, Ranges 1 to 4; Township 5, Ranges 4 and 5; and Township 6, Range 5.

Title:

The three Permit Areas Nos. 10, 11 and 18 were applied for in the latter part of 1966 and the Permits were granted on the 19th and 23rd of October 1967. The central area was optioned by Kennco Explorations (Western) Limited from White Minerals Limited and Vernon Lyons Consultants Limited, under an agreement dated October 31, 1966.

Work Done:

Stream sediment samples were taken in streams and side drainages that traverse the area, in 1966 and 1967. No other physical work such as diamond drilling or rock trenching was done. The sample sites are located on the accompanying map.

Geochemical Data:

No anomalous stream sediment sample sites occur. The values are at background levels. The maximum copper value is 53 ppm, for zinc it is 153 ppm and for lead 55 ppm.

73, 65, 63
150, 167
95, 67

Geology & Mineral Occurrences:

The geology of the area is shown on the attached map and is derived from G.S.C. Map 35-1962. The formations are described in G.S.C. Memoir 336. The area was prospected and the favourable geological sections were traversed at regular intervals. The geological sections examined included the Appekunny, Grinnell and Siyeh

formations and in the western and southeastern part of the Permit Area, the Purcell, Sheppard, Gateway and Phillips (Kintla) formations.

No thick, well developed beds of quartzites were found in the northernmost exposures of the Grinnell formation, the only significant development being either at the top or occasionally at the bottom of the formation. Quartzite was found to be abundant in the upper half of the Grinnell near Pincher and Drywood creeks, where thicknesses of 12 to 18 feet occur.

Minor chalcopyrite with bornite, malachite and rare chalcocite, are localized in the uppermost beds. However, the mineralized beds have thicknesses of 8 inches to at most 4 feet, except in the Drywood Creek area where it is 16 feet.

Traces of chalcopyrite were found in occasional thin (2-4 inch) quartzite beds of the Appekunny formation; the best being in the upper 2 feet of an 8-foot quartzite bed about 680 feet from the top of the formation located on the north side of Syncline Brook.

Small amounts of chalcopyrite occur in quartzite laminae at the base of the Siyeh formation. The base of the Siyeh is characterized by marcasite pellets in thin quartzite beds. Thin beds of quartzite, generally less than one inch and never thicker than one foot, are common in the lower 265 feet of the Siyeh formation and generally contain traces of chalcopyrite.

Chalcopyrite was found in a 4-foot limestone bed in argillite in the Gateway formation near the head of Yarrow Creek. A sample across this bed assayed 0.26% copper and 0.084 oz/ton silver. Thin dolomite or dolomitic argillite beds with widths of 1 to 7 feet were found with traces of chalcopyrite in the lower and middle Kintla formation. A sample from a 7-foot dolomite bed on the west side of Mill Creek assayed 0.054% copper.

In the Purcell lavas at the head of Yarrow Creek, chalcopyrite was found as amygdaloidal, cavity fillings. Chalcopyrite, pyrite and galena occur in minute quartz-calcite veinlets adjacent to a thin black sill on the west side of South Drywood Creek.

One area of interest was found on the north side of Drywood Creek in the Upper Grinnell and lower part of the Siyeh formations. The maximum thickness of quartzite found is 40 feet, but thins within 100 feet to 12 feet to the south and 3 feet to the north. A 14-foot section of argillite at the base of the Siyeh assayed 0.25% copper and 0.033 oz/ton silver. The top 16 feet of Grinnell quartzite assayed 0.05% copper and 0.011 oz/ton silver.

Vancouver, B. C.


B. A. Bradshaw

January 11, 1968

19680006

QUARTZ MINERAL EXPLORATION PERMIT No. 10

(826/8)

CANCELLED

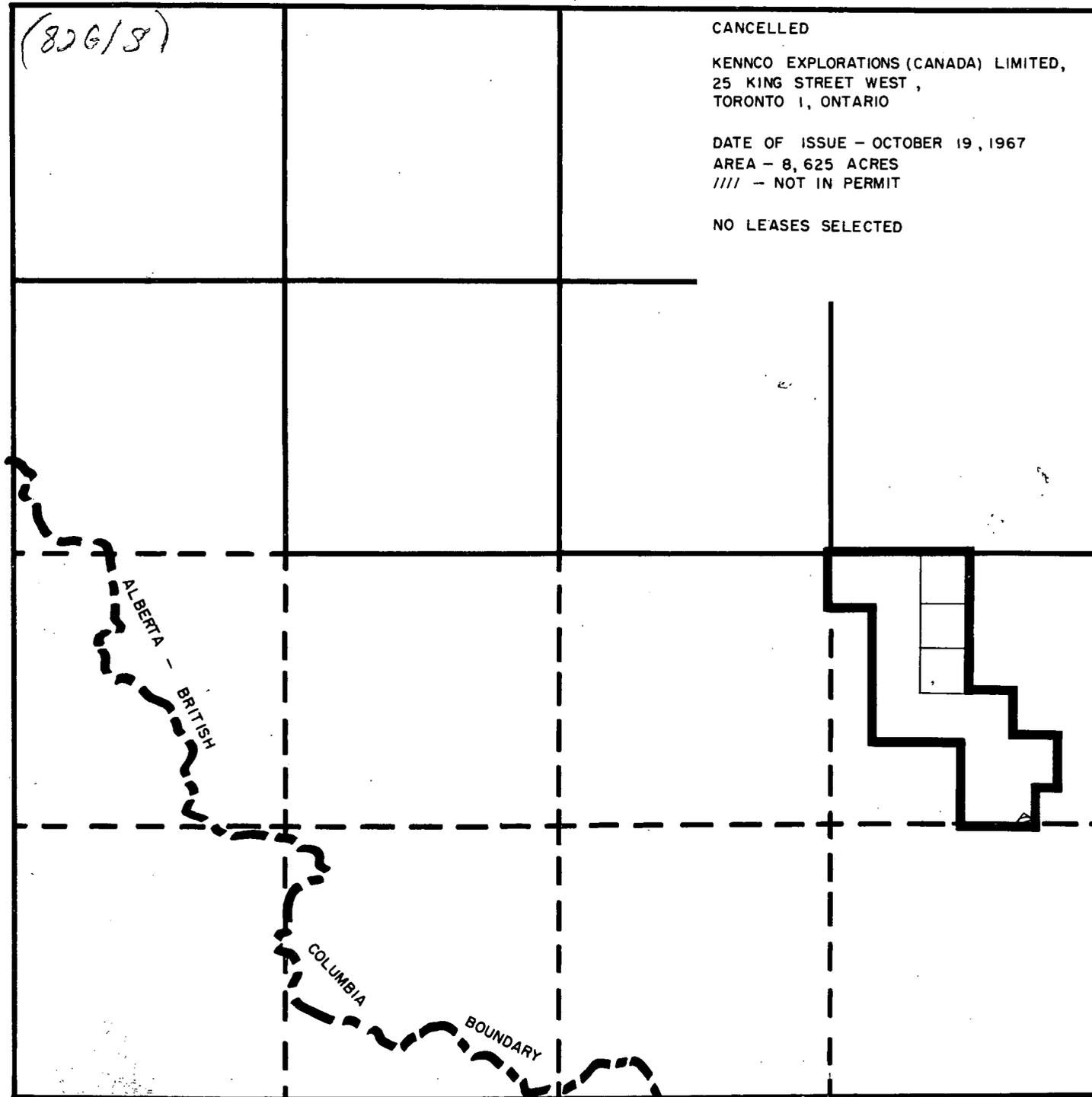
KENCO EXPLORATIONS (CANADA) LIMITED,
25 KING STREET WEST,
TORONTO 1, ONTARIO

DATE OF ISSUE - OCTOBER 19, 1967

AREA - 8,625 ACRES

//// - NOT IN PERMIT

NO LEASES SELECTED



TP. 4

TP. 3

R. 2

R. 1 W. 5 M.

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~~19680010~~

QUARTZ MINERAL EXPLORATION PERMIT No. 18

