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KENNCO EXPLORATIONS, (WESTERN) LIMITED

GEOLOGICAL REPORT
QUARTZ PROSPECTING PERMIT AREA
(White and Lyons)
Southwestern Alberta

Summary:
Prospecting and geological traversing found no significant copper mineralization, nor thick, well developed beds of quartzite in the Grinnell formation. Minor chalcopyrite, occasional bornite, pyrite occur in thin beds of quartzite in the Appekunny, Grinnell and at the base of the Siyeh formations. Chalcopyrite also was found in dolomitic argillite, dolomite and in limestone in the Kintla (Gateway).

Recommendation:
No further work is recommended on the Quartz Prospecting Permit Area and the option should be terminated. (See Permit No. 8... plastic sleeve).

Location:
The Quartz Prospecting Permit Area is located in southwestern Alberta near Waterton Park and comprises about 60,000 acres located in parts of Township 3, Range 1; Township 4, Ranges 1, 2, 3, and 4; and Township 5, Range 4.

Title:
This area was optioned by Kennco Explorations, (Western) Limited from White Minerals Limited and Verne Lyons Consultants Limited, under an agreement dated October 31, 1966.

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 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 North 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 North 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.

Sediment samples were taken in all the streams and side drainage that traverse the area. No anomalous stream sediment sample sites occur. The values are at background level. The maximum copper value is 53 ppm, for zinc 153 ppm, and for lead 55 ppm.

Vancouver, B. C.
December 6, 1967

B. A. Bradshaw
QUARTZ MINERAL EXPLORATION PERMIT No. 8

CANCELLED

VERNE LYONS CONSULTANTS LIMITED,
712 BAMLETT BLDG.,
CALGARY, ALBERTA

DATE OF ISSUE – OCTOBER 19, 1967
AREA – 38,198 ACRES

NO LEASES SELECTED
19670002 QUARTZ MINERAL EXPLORATION PERMIT No. 9

CANCELLED

WHITE MINERALS LTD.,
425 BENTALL BLDG.,
CALGARY, ALBERTA

DATE OF ISSUE — OCTOBER 19, 1967
AREA — 19,200 ACRES
NO LEASES SELECTED.
Legend
- Purcell Lava - andesite
- Syah Formation-limestone, dolomite, argillite
- Grinnell Formation-argillite, sandstone, siltstone
- Appekunny Formation-argillite, sandstone
- Allyn Formation-limestone, argillite, dolomite

Geology-from G.S.C. Map 35-1962 - Fernie (East half)
Sample site and number

KENNCO EXPLORATIONS (WESTERN) LIMITED

GEOLOGY & SAMPLE SITE LOCATION
PROSPECT PERMIT AREA 132
SOUTHWESTERN ALTA.

SCALE: 1" to 1 mile

Map #1