

ED 820619

File 104-G.

W.S.R.	
K.C.G.	
G.H.M.	
R.D.S.	
B.C.B.	
P.M.K.	<input checked="" type="checkbox"/>
C.K.W.	<input checked="" type="checkbox"/>
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J.H.S.	
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L.B.	<input checked="" type="checkbox"/>
E.C.J.	
D.V.B.	

To..... Mr. W. M. Summary, Bik Syndicate

Subject..... Bik Prospe Explorations 1956 - 1960

February 12, 1963

Feb 12 1963

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(25%) Anglo

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plorers Ltd.
Silver

Standard provided management and the work was supervised and reported on by their Superintendent of Exploration, W. St. C. Dunn. Further participation after 1960 was declined by Anglo-Huronian and McIntyre. It is the impression of Anglo-Huronian that the Syndicate was well and economically managed.

In 1956, 2,457 square miles were photogeologically mapped and prospected near the then proposed Stewart Cassiar road. Areas to be prospected were chosen because of folding or faulting suggested by aerial photos. Five prospecting parties were used and were serviced by a Piper Super Cub. Total cost was \$47,493.97. One mineral occurrence was found.

In 1957 6,000 square miles were mapped from aerial photos and 30 acres chosen to be prospected. Many small low grade mineral occurrences and one large low grade deposit called the Schaft Creek deposit were found. A helicopter and a Piper Super Cub, were used during that season. Total cost was \$83,844.67. At the end of the 1956 and 1957 seasons 50 areas had been examined. 92 claims were staked on 6 separate occurrences. Only those on the Schaft Creek copper showing were worth holding. In the Scud River Glacier area chalcopryrite float was found in every moraine of the glacier and one small showing in place near a glacier to the east of the Scud. The general area is said to deserve further prospecting which would be done best using a helicopter; some further work was done in 1958. In the Schaft Creek area copper mineralization occurs over a length of five miles and a width of one mile in or near a granodiorite body. Fifty-six claims were located but trenching averaged only 0.26% copper. Assessment work for ten years was recorded on four key claims.

In the area of glaciers southwest of Yehiniko Lake bornite float was found in more than 6 locations and in place once. Further prospecting was said to be warranted (this was done in 1958).

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W.S.R.	
K.C.G.	
G.H.M.	
R.D.S.	
B.C.B.	
P.M.K.	✓
C.K.W.	✓
E.O.C.	
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J.B.S.	
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E.L.D.	
T.B.	
E.C.J.	
D.V.B.	

To..... Mr. W. M. Sirola..... From..... C. K. Wilton.....

Subject..... Bik Prospecting Syndicate, B.C. (1046)..... Date..... February 12, 1963.....

The Bik Syndicate carried out prospecting during 1956 to 1960 in northwestern B.C. on the areas indicated on the attached map. The Syndicate was financed by McIntyre (25%), Canadian Explorers Ltd. (25%) Anglo-Huronian (15%) and Silver Standard Mines (35%). Silver Standard provided management and the work was supervised and reported on by their Superintendent of Exploration, W. St. C. Dunn. Further participation after 1960 was declined by Anglo-Huronian and McIntyre. It is the impression of Anglo-Huronian that the Syndicate was well and economically managed.

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The Klastline plateau area including the east side of Kinaskon Lake and between Kinaskon and the chain of lakes draining Kakiddi Creek was said to warrant more intensive prospecting. (This was done in 1960).

The north side of the Samotua River and an area to the south of the one worked this year (1957) are worth prospecting.

In 1958, five to six parties covered a greater area than in the two previous seasons combined. Cost was \$63,226.90. Many showings were found but claims were staked on only one, the E & L nickel-copper find which is indicated to have 5,000 tons per vertical foot having per ton 0.005 ounces gold, 0.5 ounces silver, 0.65% copper, 0.3% zinc and 0.7% nickel. In 1958 more than sixty areas were prospected and more than one hundred mineral occurrences were found but the only claims located were two on the E & L nickel-copper find. Dunn suggests that the large number of occurrences suggests the existence of a metaliferous province in the Iskut-Stikine area. He suggests the area warrants more intensive prospecting by more elaborate methods.

Some asbestos was found in the Tachilta Lakes area and more work was considered worthwhile.

In 1959 three areas were prospected and minor mineral occurrences, none worth more work, were found in all 3 areas. Cost for the year was \$6,216.79.

In 1960, two large areas were prospected at a total cost of \$6,413.54 without results of interest. During that year Kennco proposed to do a small amount of drilling on the Schaft Creek Copper claims but since they were unwilling to make any payments or buy the property no agreement regarding the drilling was reached. During the year also Dr. H. Norman of Newmont examined the E & L claims and proposed a more detailed examination in 1961.

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For 1961 a programme of more intensive work in 5 locations was proposed at a cost of \$66,600.00 but further participation by Anglo-Huronian was declined.

More detailed notes on the results of the work in the years 1956-1960 follows:

<u>Year</u>	<u>Area</u> (see map)
1956	(8) Should be prospected further - gossans and float of manganese and copper. (9) Narrow veinlets of chalcopyrite float - should be prospected including a find of chalcopyrite reported by the GSC on the east slope. (10) A large gossan is caused by pyrite in phyllite. Near a body of diorite just North of the lake is a small showing of galena. (14) Chalcopyrite and asbestos float were found near an ultrabasic intrusive. The asbestos float area is to be staked.
1957	(1) Pyrrhotite float with some chalcopyrite and nickel found and traced to small lenses up to 40 feet by 10 feet assaying 1.7% Ni and 1.4% Cu. Prospector considered area not worth more work although Dunn loathe to leave without more work. (2) One shear with some molybdenite found - also a 4' quartz vein on Johnny Mountain assayed Au .38, Ag 1.0 ounces/ton. (4) Considerable pyrite; some chalcopyrite float and a piece of galena float west of the Hoodoo river; otherwise little found. (6) Sulfide replacement zone mainly arsenopyrite with some galena, sphalerite and chalcopyrite. The best assay of the solid sulphides was 1.2 ozs. Ag, 2.2% Pb, 5.7% Zn and 0.2% Cu. Other assays much lower - not believed to be of any value.

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- | <u>Year</u> | <u>Area</u> (see map) |
|-------------|--|
| 1957 | <p>(7) Some excellent chalcopryrite float found near the head of More Creek but could not be traced to its source. Considerable massive arsenopyrite and pyrite was found.</p> <p>A north-south trending fault contained chalcopryrite, hematite, magnetite and a deposit of secondary manganese and limonite. This last deposit was about 125,000 tons. The fault deserves more prospecting.</p> <p>(10) Many showings of chalcopryrite and a few of galena but none of sufficient size. No more work warranted.</p> <p>(11) Chalcopryrite float was found in every moraine of the Scud Glacier and one small showing in place near a glacier east of the Scud. Deserves more work.</p> <p>(12) In the Schaft Creek area copper mineralization found in places over a length of 5 miles and width of 1 mile as:</p> <ul style="list-style-type: none">(a) chalcopryrite in fractures in granodiorite(b) chalcopryrite in felsite dykes in volcanics(c) stringers of chalcopryrite and bornite in volcanics near the intrusive(d) chalcopryrite disseminated in the volcanic rocks. <p>Type (c) were too small, not greater than 40 feet by 2 feet. Type (d) was trenched but 3,000 feet of trenching averaged only 0.26% Cu.</p> <p>An asbestos showing found in 1956 on Mt. Hickman was found to be minor and uneconomic.</p> <p>(13) In the area of glaciers southwest of Yehiniko Lake bornite float was found in more than 6 locations and in place once. The showing in place was small. More work recommended.</p> |

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- | <u>Year</u> | <u>Area</u> (see map) |
|-------------|--|
| 1957 | (14) Small stringers of galena, sphalerite, barite and chalcopyrite located. More prospecting warranted. |
| | (15) Chalcopyrite stringers found in five or six locations. Trenching gave very low values. |
| | (16) Minor chalcopyrite showings. |
| | (17) The headwaters of the Samotua river contained some chalcopyrite and bornite float and some asbestos. The asbestos was amphibole type and uneconomic. The north side of the Samotua and an area south of the one worked this year are worth prospecting. |
| 1958 | (3) Minor tetrahedrite in quartz veins. |
| | (4) Pyrite gossans in limestone. |
| | (5) Pyrite gossans - minor arsenopyrite and chalcopyrite. |
| | (6) Similar to (5). |
| | (7) Some good specimens of galena in limestone on Dick Creek. Older metamorphic rocks abundant and rusty due to pyrite. |
| | (8) Some rusty metamorphic rocks as in (7) |
| | (9) The east slope of Kalahin Mountain has several gossans of metamorphic rocks with no economic mineralization. |

Most of the lower slopes of Johnny Mountain are of metamorphic rocks intruded by the Bronson intrusive which is sparsely mineralized with pyrite, chalcopyrite, galena and sphalerite.

Two large shear zones on the west side of Bronson glacier contain considerable sphalerite, pyrite and a little chalcopyrite and bornite.

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Year Area (see map)

- 1958 (10) Two occurrences of molybdenite, one of hematite, one of limonite, numerous chalcopyrite showings, two of galena in limestone, some quartz veins with a little gold, and three showings of pyrrhotite, chalcopyrite and nickel were found. The only one of value - a copper-nickel showing, was staked (E & L claims). In it the mineralization is disseminated in a band twenty to fifty feet wide around a plug. Mineralization consists of pyrrhotite, magnetite, chalcopyrite, pentlandite and limonite. Some massive lenses make up 5% of the mineralized area. Thirty-one samples averaged 0.005 ounces gold, 0.5% ozs. silver, 0.65% copper, 0.3% zinc. and 0.7% nickel.
- (11) Several minor chalcopyrite showings.
- (12) Pieces of molybdenite, sphalerite, and chalcopyrite found but all the rusty zones due to pyrite.
- (13) Minor galena and chalcopyrite occur in limestone on the west side of the river. On the east side of the river near the headwaters there are specimens of magnetite and hematite and occasionally chalcopyrite in the magnetite.
- (14) One chalcopyrite barite stringer, not greater than 6" in width traced for 5,000 feet. Some pyrite gossans.
- (15) Some small stringers of chalcopyrite.
- (16) As above.
- (17) A low grade zone with chalcopyrite stringers.
- (18) Some pyrite - pyrrhotite gossans.
- (19) A zone of disseminated bornite found which assayed about 0.25% Cu.
- (21)(22)(23) Occasional specimens of chalcopyrite.

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<u>Year</u>	<u>Area</u> (see map)
1958	(24) (25) (26) Some chalcopyrite stringers, near Yehiniko Lake. In Strata Creek specimens of chalcopyrite and bornite, two of molybdenite, and one of pyrrhotite containing nickel were found. Near the head of Dokdaon Creek some chalcopyrite and galena were found in a large east-west trending zone. (27) Molybdenite was found in erratic gobs on the west side of Chutine Lake but only in small quantities. (28) (29) Only pyrite in rusty zones. (30) Some asbestos found - more work warranted.
1959	<u>Hottah Lake</u> - Little found but large ultrabasics considered worth more prospecting. <u>Kluea (Ealue L.)</u> Minor pyrite and chalcopyrite. <u>Tsenaglode Lake</u> Minor pyrite - some copper stain.
1960	<u>Terrace to Nass River</u> Some chalcopyrite in quartz veins on Mays Creek and Beaver River. <u>Nass River to Kitwanga Lake</u> Not of interest. <u>Klastline plateau - Kinaskan Lake</u> Some coal - not economic. Some copper staining in creeks probably due to fissure veins containing small blibs of chalcopyrite with some pyrite and pyrrhotite. Large pyrite gossans at heads of Tsazia, Castle and Quash Creeks.

* * *

More details can be given if desired

C. K. Wilton
Senior Geologist - Exploration

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