

File 105.TD

005249

Bowen Exploration: Ketzia River

(Peel) Gold Deposits

Nov 20 1957.

CONQUEST EXPLORATION COMPANY LIMITED

REPORT

ON THE

KENSA RIVER (PEEL) GOLD DEPOSITS

YUKON TERRITORY

by

W. P. HAMMOND, P. ENG.

Toronto, Ontario

November 20, 1957

CONVEST EXPLORATION COMPANY LIMITED

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REPORT

ON THE

KETSA RIVER (PEEL) GOLD DEPOSITS

YUKON TERRITORY

SUMMARY

Auriferous sulphide replacement deposits have been established by a preliminary trenching and drilling programme on the Peel and Penguin claims held by Convest Exploration Company, situated in the Ketsa River area, Yukon Territory.

The mineralization consists of pyrrhotite, auriferous arsenopyrite, pyrite and minor chalcopyrite replacing a limestone horizon. Gold-bearing sulphides have been established intermittently along a distance of over 2,000 feet. On the Peel No.3 showing, 15 drill holes over a length of 600 feet have established a gold-bearing horizon 14.4 feet in thickness containing 0.344 oz. per ton Au., which figure includes short sections of barren limestone within the zone. The numerical average of 21 representative samples taken in surface cuts on this zone is 0.525 oz. per ton Au.

Further drilling and geological mapping is recommended, to provide a more precise understanding of the structural controls and to test the favourable limestone horizon laterally and at greater depth.

INTRODUCTION

This report is based on the results of two seasons' exploration work. In 1955, J. R. Woodcock carried out preliminary mapping and trenching of the gold-sulphide replacement deposits. This was followed by a more extensive investigation of the showings in 1956 by Dr. W. V. Smitheringale, which included further mapping and 997 feet of drilling with a Pas Sac drill. The results of this work, submitted in the form of maps and reports by Smitheringale and Woodcock, form the basis of this report.

LOCATION AND ACCESS

The Ketsa River group consists of 97 claims and fractions. They are situated 30 air miles south of Ross River Post, which lies at the junction of the Pelly and Ross River, Yukon Territory. The specific location is at 61°34' N Latitude; 132°13' W Longitude.

Present access is by a foot and horse trail from Bruce Lake, a distance of 20 miles. An airstrip, suitable for winter operation, is situated five miles from the showings and can be utilized for the transportation of drilling equipment.

GEOLOGY AND MINERAL DEPOSITS

The gold-bearing sulphide deposits in the Ketsa River area occur in a belt of limestones which extend across minerals claims 3 and 5, Penguin 2, 4 and 6, Fury 29, 30 and 32 and Pioneer 2, as shown on the accompanying map on the scale of 40 feet to the inch.

The sulphides form replacement deposits in limestone and consist of pyrrhotite, auriferous arsenopyrite, pyrite and minor chalcopyrite. Most of the deposits contain some quartz.

GEOLOGY AND MINERAL DEPOSITS (Continued)

On the Peel No.3 showing, 15 drill holes, spaced over a surface length of 680 feet, exposed a gold-bearing horizon averaging 14.4 feet in thickness, containing 0.344 oz. per ton Au. (calculated average across full thickness of mineralized zone, including some sections of barren limestone).

The average trend of the mineralization is N 55° E and it varies in dip from low rolling attitudes about the horizontal to 40° to the southeast. The numerical average of all 21 samples taken in surface cuts is 0.525 oz. per ton Au. These samples are spaced over approximately the same horizontal distance and represent values from fresh sulphides, without dilution by barren sections of limestone, as included in averaging the drill hole sections.

Approximately 1,300 feet westerly from the above area, on showing Fury 30A, a drill hole exposed 26 feet of continuous mineralization, averaging 0.44 oz. per ton Au. (Section No. 4). A closely spaced parallel drill hole showed the mineral zone to be 31 feet thick. Its correlation to Peel No. 3 showings is not known, but the mineral association is identical and further work is required to investigate the intervening ground.

Other exposures in the area of Penguin 3 and 4 mineral claims have given gold assays of 0.25 to 0.50 oz. per ton Au. from similar mineralization. This section requires further carefully controlled prospecting and mapping to evaluate and correlate the gold showings exposed to date.

RECOMMENDATIONS

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The information obtained from the relatively limited development programme so far, has enhanced the showings considerably and a more comprehensive investigation is warranted.

This should consist of a diamond drilling programme to test the limestone belt at depth and laterally. Thorough and detailed structural mapping should be carried out in conjunction to determine the structural aspects of the ore controls.

Respectfully submitted,

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Toronto, Ontario,

November 20, 1957.

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