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**Rich River Exploration Ltd.** 

**Bowler ~ Polymetallic VMS** 

## Introduction

The Bowler Polymetallic volcanogenic massive sulphide property has been staked to cover many known showings and indicated reserves of Noranda Kuroko style massive Ag - Zn - Pb - Cu - Au and Cd mineralization. The Bowler property has also been known as the CU 1, CU 5, BC, ZINC and BOWLER CREEK.

# **Previous work History**

The numerous showings of massive sulphides that occur on the property, have been known about for many years.

Plateau Metals worked on the property in the early 1950's.

In the 1960's, Giant Metallics conducted work including; trenching, stripping and drilling.

In 1976, Craigmont Mines optioned the property and performed geophysical survey's and diamond drilling.

In the 1980's Noranda Exploration Company held an option on the property. Noranda conducted geological mapping, geophysics, geochemical survey's, trenching and drilling.

## **Location and Access**

The Bowler group of claims are located on the eastern edge of the Adams Plateau, north of Shuswap Lake. The claims are on map number 082M/003 in the Kamloops mining division of BC.

The property is accessed via a network of logging roads that trend off of the main highway to Celista British Columbia.



## **Topography and Physiography**

The Bowler claims are situated on gently sloping to moderately steep topography near the headwaters of Bowler Creek.

## **Regional Geology**

The Bowler VMS property is underlain by north east trending metavolcanics of the Cambrian to Ordovician part of the Eagle Bay Formation. The metavolcanics consist of bedded andesitic fragmentals and flows, siliceous tuffites with some rhyolite ignimbrites, tuffs, and fragmentals. The andesite and tuffite contain abundant siliceous and/or cherty layers. Small amounts of pyrite, pyrrhotite, chalcopyrite and sphalerite are disseminated in most of the host rocks. Northeast-north trending quartz feldspar porphyry dykes cut the metavolcanics.



**Bowler ~ General Geology Map** 

## **Mineralization**

Numerous zones of massive base metal sulphides occur on the property. The zones include galena, sphalerite, pyrrhotite, pyrite and magnetite with minor chalcopyrite.

These zones occur in conformable chlorite and/or epidote rich layers. Layers of massive sulphides are up to 4 metres or more thick.

Areas of the property are known to host mineralization that grades between 15 and 20 percent zinc.

## **Mineral Reserves**

Previous exploration on the Bowler property has delineated reserves of economic minerals. These reserves have been indicated in two areas on the Bowler property. These areas are known as the South East and the BC zones.

The main zinc zone covers an area measuring about 1600 by 600 metres in an east northeast trend with 20 to 35 degree dips to the north- west. This zone lies about 1 kilometre southeast of the BC zone.

Indicated reserves to date, in the South East (zinc) zone are: 148,000 tonnes grading ~ 6% lead, 2.43 % zinc, 1.1 oz. per ton silver, 0.14 per cent molybdenum and 0.19% copper

In addition, the BC zone covers an area measuring about 1400 metres by 400 metres in an east-northeast trend with 15 degrees to 30 degrees dips to the northwest. This zone lies about 1 kilometre northeast of the Zinc zone.

Indicated reserves to date, in the BC zone are 181,000 tonnes grading 1.6 oz/ton silver, 0.2 per cent copper, 1.0 per cent lead and 2.72 per cent zinc. The Bowler deposit to date, is estimated to contain approximately 452,400 ounces of silver.

Further exploration could possibly delineate a much larger resource.

"Potential" tonnage is stated as at least one million tonnes. (Assessment Report # 14681, page 17)

**Regional Geology and Mineral Occurrence Map** 



### Index

### Mineral occurrences

1~ Mosquito King, 2~ King Tut, 3~ Bowler, 4~ Scotch, 5~ Scotch Creek, 6~ Silver King, 7~ Iron Pot Pearlmarie, 8~ Metal Crest, 9~ Shuswap, 10~ Onyx, 11~ Copper Island, 12~ Scotch Placer, 13~ Hlina Placer.

### Geology

<u>2</u> ~ Eagle Bay Formation

Siliceous chloritic sericitic phyllites; quartz biotite garnet schist's; greenstone, black argillite, shale, limestone's, cherts, conglomerate, foliated acidic volcanics with lesser amounts of other meta-sediments and meta-volcanics.

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### **ECONOMIC FACTORS**

The average deposit size of Noranda Kuroko type VMS deposits are 1.5 Mt containing 1.3% Cu, 1.9 % Pb, 2.0 % Zn, 0.16 g/t Au and 13 g/T Ag (Cox and Singer, 1986).

British Columbia deposits range from less than 1 to 2 Mt to more than 10 Mt. The largest are the H-W (10.1 Mt with 2.0 % Cu, 3.5 % Zn, 0.3 % Pb, 30.4 g/t Ag and 2.1 g/t Au) and Kutcho (combined tonnage of 17 Mt, 1.6 % Cu, 2.3 % Zn, 0.06 % Pb, 29 g/t Ag and 0.3 g/t Au).

### Landsat Image ~ Bowler VMS Area



Noranda/Kuroko massive sulphide deposits are major producers of Cu, Zn, Ag, Au and Pb in Canada.

Their high grade and commonly high precious metal content continue to make them attractive exploration targets.

References; Minfile numbers 082M 138 and 082M 139. E.M.P.R. Assessment Reports; 13381, 14681

It has also been noted that siliceous (oxide facies) iron formations on the Bowler property are anomalous in gold. (Further exploration for this model type is warranted!)

The vendor is highly motivated and willing to include the IRON POT, BOWLER VMS and SCOTCH CREEK claims into one easy deal!

This property is offered for sale, by way of working option to purchase.

Contact us, for more detailed information. Or to discuss participating in this project.

Contact us: prospect@richriver.bc.ca

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Iron Horse ~ Bolivar Standfast ~ Wigwam Mosquito King Placer Gold Claim Lanark Scotch Creek Iron Pot Bowler VMS HED Porphyry Goldmist

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#### Description

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