April 2002

# FOREMORE Discovery of new Uns showing this symmer (John Mirko)

Corporate Development Update



# A Start-up Gold Company Exploring in the Eskay Creek Camp

### **Special points of interest:**

 The junior mining sector is poised for a cyclical breakout

- Roca is a new company founded by experienced management
- Roca has acquired an outstanding gold-VMS project in BC
- Roca is currently completing a seed-level investment prior to a planned IPO later in 2002
- Roca plans to spend \$1.5m over the next 18 months

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Roca Mines Inc. is a new Vancouver-based exploration company co-founded by Scott Broughton and John Mirko.

Rolling out **Roca** in the spring of 2002 is all about timing. Mr. Broughton and Mr. Mirko have observed market conditions and waited for precisely this moment. Investor interest in the mining sector is on the rise, and the time for a cyclical breakout in the mining market is just around the corner, as indicated by the present gains.

Growing confidence in the gold and metal markets will help to fuel the emerging junior mining market—in part because of increasing dependence on juniors to carry out exploration for the entire industry. Senior mining companies have been consolidating for the past few years, creating increasingly large operating organizations with little or no exploration capacity. They are concerned with gold supply and dwindling reserves.

As the price of gold and other commodities increase, the demand for high quality exploration properties like **Roca's** should increase dramatically.

Our plan is to seed and structure **Roca** in preparation for a new public listing by the end of 2002 in time for the new rising mining market.

Roca has already acquired a 100% interest in the well known gold and gold-rich-VMS Foremore Property located in northern British Columbia, 55 km (33 miles) north of the Eskay Creek Mine, Canada's richest gold producer. The **Foremore Prop**erty has attracted much interest because of its significant potential.

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**ROCA MINES INC.** 

Scott Broughton and John Mirko have been active in the junior mining sector for many years and have demonstrated solid management skills that include: identifying properties, financing, negotiating and working with senior mining companies and assembling talented teams.

Finally, the Federal and Provincial Government are encouraging investment in Canadian exploration through "Super" flow-through shares—a means of sheltering income for investors.

## **Experienced Management**

Scott Broughton, P.Eng. (Founding Director and President) is a mining engineer with design and project management experience on several exploration, mine development and mine operations. He has provided consulting and advisory services to senior mining companies on projects worldwide.

As an entrepreneur, Mr.

Broughton has been involved in the formation and development of a number of public and private companies, raising over \$7m for exploration efforts in Canada, Australia, South America and Africa.

John Mirko (Founding Director) is a career explorationist and development consultant having worked throughout North America, South America, Asia and countries of the former Soviet Union. He has conducted field programs, property evaluations, property purchase-option agreements and managed development of mine and mill infrastructure.

As an entrepreneur, Mr. Mirko has been involved in the formation and development of several private and public mining companies.

## Roca Mines Inc.

# **Roca's Property of Merit**



# **Discovery History**



South Boulder Field (SBF) with over 800 VMS boulders



View of the Westmore Au 'Intrusive Gold' Zone

# **Work Plan and Schedule**

Planned IPO by Year-end 2002 **Roca** plans to conduct a comprehensive reconnaissance mapping and prospecting campaign on the **Foremore Property** in the **Summer 2002**. The work will begin in early **June** with a thorough compilation of all currently available data for Barrick's producing Eskay Creek mine and Teck-Cominco's pastproducing Snip Mine are located 55 km S and 45 Km SW of the **Foremore Property** respectively. Between 1992-2001 they have a combined production in excess of 2.9 Moz of gold and 90 Moz of silver.

Roca has 100% interest in 413 claim units covering approximately 100 Km<sup>2</sup> (36 sq.miles). Access to Foremore is by short helicopter trip from the Bob Quinn airstrip located on Highway 37, currently used by Barrick to rotate Eskay personnel.

Bob Quinn is located approximately 4 hours by vehicle from

The Foremore Property and Roca's known target areas are shown on the annotated airphoto on top right of Page 3. The area was originally staked by Cominco after a 5.2 oz/ton gold rich boulder was discovered by Bruce Mawer in 1987 near the Westmore Au area.

Subsequent work by Cominco lead to the discovery of over 1000 volcanogenic massive sulphide (VMS) boulders in three distinct areas or 'fields'; 'South Boulder Field' (SBF), 'North Boulder Field' (NBF) and 'Side Glacier Boulder Field' (SGBF) shown on Page 3.

The VMS boulders range in size from 0.1 - 2m in diameter and include some high grade values of Zn, Cu, Pb, Ba, Ag, Au (see legend Page 4). A saw-cut portion of a VMS boulder from the

#### the Foremore Property.

Geological work will be led by Vancouver based **Equity Engineering Ltd.** (see page 4), a wellrespected geological consultancy with extensive experience in the Eskay Creek camp. Smithers, and can also be accessed by air charter and seasonal scheduled service from a variety of locations. Smithers and Terrace are serviced by daily flights from Vancouver.

As a testament to the importance of the last 'flow-through driven' exploration cycle, the Eskay Creek and Snip mines were both discovered in the late 1980's by flow through driven exploration. Although the **Foremore Property** was recognized at the time as having tremendous mineral potential, it, and the ground immediately north of Eskay and Snip remain underexplored to this day.

### SBF is also shown on Page 4.

Cominco spent over \$2 million on the property (1988-1992, and 1996) exploring "up ice" for the source of the boulders, carrying out geological mapping, geophysics, and a limited drilling campaign (6 holes) to investigate geophysical targets under More Glacier.

Their exploration program was singularly focused under More Glacier for the source of the mineralized boulders, but this concept failed to explain their occurrence or current location.

Corporate objectives caused Cominco to drop the property in 1999 and it was re-staked by Lorne Warren (Roca's property vendor) who carried out additional prospecting and sampling in 2000.

In addition to their work on the ground, Equity will be responsible for the preparation of a geological report to be submitted with **Roca's** Prospectus filing in **September 2002**, for a planned IPO by **Year-end 2002**.

## Roca Mines Inc.

# **Prospective Geology and Targets**

Roca has completed an initial review of project geology reports and available sources of data, including; airphotos, geology maps and a regional aeromagnetic survey. Our interpretation of this information confirms a number of site characteristics;

ORecent airphoto interpretation carried out by Dr. Wayne Savigny, P.Eng. (BGC Engineer ing Inc.) suggests that it is unlikely the mineralized boulders came from a bedrock source under More Glacier. Rather, the origin of the boulders may be from bedrock sources immediately north of the SBF and east of the NBFareas that have not previously been systematically mapped or prospected. The mineralized boulders contained in the SGBF likely originated from very close to the position shown.

● The area is underlain by deformed mafic to felsic volcanics, sediments, carbonates and intrusions as shown on the geology map at right. These rocks are part of a highly mineralized volcanic arc environment and are prospective for polymetallic and precious-metal-rich VMS deposits, as evidenced by the mineralogy of the boulders at SBF and boulders/outcrop at NBF and SGBF.

Volcanic arc environments are also prospective for hydrothermal gold deposits. High level hydrothermal activity (epithermal) superimposed over a VMS is the geologic model for the precious-metal-rich VMS Eskay Creek deposit. Additional hydrothermal activity is manifested by the occurrence of high-grade gold bearing quartz veins discovered at the Westmore Au and Carbonate Au target areas. Gold is clearly in this system.

© Regional airborne magnetics, shown at bottom right, indicates a large 'mag-low' (coloured blue) surrounded by 'maghighs' (coloured red). These mag anomalies are all cut by NE and NW trending linears (deep rift structures?) shown on the same figure. Interpretation of the aeromag and structural features suggest significant opportunity for hydrothermal fluid flow in the area.

Mineralized boulders and outcrop confirm the presence of at least **four** styles of mineralization;

A. Precious-metal-rich VMS (volcanogenic massive sul-

phide - Zn, Cu, Ba, Au, Ag); B. Intrusion Related Gold (1. intrusive hosted, 2. gold in

quartz veins, 3. sulphide in volcanics, and 4. sulphides in Carbonates);

C. Irish Type (sulphides replacing carbonates - Zn, Ag, Ba, Pb); and,

D. Skarn (intrusive related carbonate replacement - Zn, Cu, Au, Ag)

The locations of the known targets relate very well with contact zones and changes in stratigraphy. The presence of so many high-grade mineralized occurrences and mineralizing styles throughout the property make the **Foremore** a very compelling exploration project.

The large area north of the SBF, including the SGBF, and northeast of the NBF are high priority targets zones for goldrich massive sulphide mineralization. The bedrock in this area shows a major change in volcanic rock types and the presence of graphitic mudstones along strike indicates a time of volcanic quiescence. Importantly, hydrothermal activity continued during this time and massive sulphide deposits were formed, as evidenced by the boulders.

The Westmore Au and Carbonate Au areas are also high priority targets hosting gold-rich quartz vein swarms, and the discovery boulder (5.2 oz./ton), sulphide replacement zones and high-grade carbonate hosted sulphide zones.







## Corporate Development Update

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Ag = Silver Ba = Barite Cu = Copper Pb = Lead

Zn = Zinc

VMS=Volcanogenic Massive g/t = grams per tonne oz = troy ounce (=31.1g)

# **Business Plan**

The creation of Roca Mines Inc. is timed such that it will become publicly trading in an emerging mining market. Roca plans to;

- 1. Acquire outstanding gold and base metal exploration projects;
- 2. Organize a qualified and experienced management team;
- 3. Leverage smart and efficient exploration investment and maximize value to shareholders; and,
- 4. Properly relate Roca's story to the investment community.

Roca intends to exceed the expectations of investors by presenting a new and focused company at the beginning of a cyclical mining market. We believe the mining market will respond robustly to the combined effects of:

- an improved outlook for gold and metal prices;
- renewed investor support for well managed junior companies;
- ongoing junior company and/ or project acquisitions by senior companies; and,
- financings involving 'super' flow-through shares.

# **Proposed Schedule and Pricing**

Roca is currently completing a 'seed-level' financing to raise \$250,000 for field work and corporate development.

This financing will close on May 15, 2002. Seed shares may be subject to a hold period after the IPO. The rules for this hold period are currently being revised and may be as short as four months from filing Roca's *Prospectus.* 

## Seed Share Pricing

Flow-through Share = \$0.15 Non FT Share = \$0.10 The Company plans to file a prospectus for an Initial Public Offering in mid-September 2002. The timing of the IPO will benefit year-end tax related investment by including a flowthrough component.

Proceeds from the IPO will fund technical programs in the 2003 field season at the **Foremore Property.**  Super flow-through shares allow investors a tax shelter of up to approximately **140%** of their investment. At present in BC, this results in a \$1,000 investment having a net cost of approximately **\$400**.

## OFFICERS AND DIRECTORS

Scott Broughton, P.Eng.—President and Director John Mirko—Director Ernest Peters—Secretary and Director

## LEGAL

Victor O'Connor–McCullough O'Connor Irwin (www.moisolicitors.com)

## CONSULTANTS

BGC Engineering Inc. (www.bgcengineering.ca) Equity Engineering Ltd. (www.equityengineering.com)

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# Jorden Wyr.03 The FOREMORE PROJECT. BC's New VMS-Gold Discovery.

**Newsletter No.3** March 2003

# Corporate Development & Project Update

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## **Special points of** Interest

**Contact Details** 

- Roca has completed a 2002 field program on it's VHMS-Gold Foremore Property
- Roca's field work has led to the discovery of source rocks in outcrop of one of the well-known mineralized boulder fields at the Foremore Property
- · Roca (ROK) commenced trading 17 December, 2002 on the TSX Venture Exchange
- Roca plans to drill-test its recently discovered outcrop showings and other significant targets in the Spring of 2003

# A New Exploration Company–Drill Ready in Spring 2003

Roca Mines Inc. is a new start-up exploration company based in Vancouver, British Columbia. Roca recently closed the maximum amount of it's initial public offering (IPO) for \$1.5-million. Roca's shares commenced trading on December 17, 2002at the TSX Venture Exchange under the symbol "ROK" and set a new record for completing the regulatory approval process. Roca's team

includes mining, exploration and management professionals, each with complementary experience in the exploration industry. There are a number of prior achievements for each member; however, with it's Foremore Project discovery success in 2002, Roca has proven ability to identify and advance exploration targets leading to significant discovery. The team's mandate is to deliver value

to investors through project acquisition and effective exploration leading to the discovery of important mineral deposits. Roca's 2003 work program on it's Foremore Property will focus on the newly found precious metalenriched Volcanic Hosted Massive Sulphide (VHMS) outcrop known as the "SG Zone" discovery.



# The FOREMORE PROJECT "...lies within an extremely rich metallogenic belt..." area after the discovery of a gold-

rich (5.2 oz./ton Au) quartz boul-

der and several massive sulphide

boulder fields during helicopter

## Background

Roca's flagship Foremore Project is well located; approximately 45km north of Barrick Gold Corporation's legendary Eskay Creek mine, in north-western British Columbia (see location map on page 4). Eskay is Canada's richest gold-silver producer with annual production of 366,000 oz. gold, and 16,000,000 oz. silver from 700 tpd and is accessed by road from the community of Bob Quinn Lake on paved Highway 37 located 45km east of the mine. An airstrip at Bob Ouinn provides access for flights from the town of Smithers, 320km southeast. The Foremore comprises 48 claims (675 claim units) over approximately 155 sq.km. and encompasses 10 known mineralized zones in outcrop and VHMS boulder fields. The property also has several untested geochemical and geophysical anomalies (see Foremore Property map on page 2). History

reconnaissance in 1987. Subsequent exploration work by Cominco was conducted to determine the source of over 1,000 VHMS mineralized boulders in the North (NBF), South (SBF), Side Glacier Boulder Fields (SGBF) and East Boulder Field (EBF) (see Foremore Property map page 2). Strong UTEM geophysical conductors located under the **North Boulder** More Glacier were subsequently diamond drilled with a total of six holes that failed to intersect mineralization of interest. Cominco carried out over C\$2,000,000 of work on the prop-More Glacier erty during 1987-1992, and subsequently in 1996 prior to the claims lapsing in 1999. Roca's property vendor, L.B. Warren

Field (NBF)

staked the large land package, and Roca can earn a 100% interest in the property by conducting exploration work and by making cash and share payments.

Roca has recently added to the total tenement area of 155 sq.km. by staking additional claims to include other areas of interest.

> Air-photo view of FOREMORE SG Zone VHMS Discovery, Boulder Fields and other Targets Areas

> > SG Zone Discovery

Side Glacie

de Glacier **Boulder Field** 

1 km

South Boulder Field (SBF)

Cominco Limited staked portions of the current Foremore Property

Page 2

## Roca Mines Inc.

## Roca Mines Inc.

# Volcanic Hosted Massive Sulphide (VHMS) Targets: The SG Zone, SG East & North

## SG Zone

During the course of the 2002 field program, the SG (Side Glacier) Zone was discovered and recognized as VHMS style mineralization. Perhaps the most meaningful part of this discovery came late in the field season when Roca undertook a bedrock blasting/trenching program to more fully expose sulphide mineralization discovered in outcrop. Mineralization is hosted in a quartz-sericite±chlorite altered intermediate to felsic volcanic rock. Layered and remobilized heavily disseminated to massive Zn-Pb-Cu-As mineralization is common with one specimen assaying 20.1 g/t Au and 23.8% Zn-Pb. Mineral textures and elemental abundances are consistent with VHMS deposition. As previously noted the SG Zone is believed to be the source of the boulders found and assayed by Cominco at the SGBF. Cominco sampled eight boulders in this field returning an average assay shown in the table below. The SG Zone is open along strike north-easterly and south-westerly and down dip to the north .

## SG East Zone

The newly discovered SG East Zone is located approximately 200m southeast of the SG Zone and mineralization consists of stratiform heavily disseminated to massive pyrite, magnetite with minor chalcopyrite mineralization hosted in a dark grey to black limey argillite. The mineralization is anomalous in Au, As, and Zn.

## North Zone

Lead-zinc-silver mineralization in quartz-sericite-pyrite schists interfoliated with chloritic schists was mapped and sampled during Roca's 2002 field program. The work shows that mineralization consists of thin foliation-parallel laminations and disseminations of pyrite, sphalerite and galena with lenses of semi-massive to massive pyrite in the quartz-sericite-pyrite schist. The North showing area is associated with lead-zinc-barite-silver anomalous soil geochemistry and a strong UTEM conductor, and has not been trenched or drill tested to date. The North Zone is believed to be adjacent to one of the source areas for the North Boulder Field (NBF). Cominco sampled two types of boulders identified in this area producing the average assays shown at right.

## Epigenetic Gold Targets: Westmore Gold & Hanging Valley Westmore Gold Zone

The Westmore Gold Zone is an extensive area containing Au-bearing sheeted quartz veins hosted predominantly in post-Triassic intermediate to granitic intrusives (Westmore Stock), and less so in Devonian-Mississippian lithologies presenting compelling bulk-tonnage targets. Cominco personnel found float boulders assaying as high as 162 g/t Au, and in-place grab samples running > 20 g/t Au. Roca collected a float sample returning 17.05 g/t Au and a chip sample containing 2.27 g/t Au. Visible gold has also been noted in float samples. The vein sets trend east-west to southeast-northwest and are 0.25 to 2m in width. Thicker veins are composed of milky white quartz with minor coarse grained pyrite and thinner veins locally contain abundant sphalerite, galena, and chalcopyrite. It is likely that several generations of veining are present at the Westmore Au Zone.

## Hanging Valley Targets

The Hanging Valley is a relatively broad open valley rimmed by variably altered and mineralized carbonate rocks. Widespread mineralization is present as gold-rich sulphide lenses and veins that generally occur as foliation parallel structures or as thin shear zones. Gold grade as high as 93.7 g/t (1m chip by Cominco) and 81.7 g/t (Roca grab) are present. Devonian-Mississippian limestone and felsic volcanics will be prospected as potential source rocks for the South Boulder Field (SBF) and for extensions of the SG Zone stratigraphy. Summer 2002 fieldwork provided new insights and complemented our geological database with respect to epigenetic Au targets on the property (Westmore and Hanging Valley). Further work will also be carried out on these gold-only targets during the Phase I drilling campaign in 2003.



"In 2002, exploration significanthy advanced three mineralized zones on the Foremore Property with the potential to host economic VHMS mineralization: the North, (and newly discovered) SG Zone and the SG East Zone." Equity Engineering Inc. (2002)

## Metal Legend

 $\begin{array}{l} Au = Gold \\ Ag = Silver \\ As = Arsenic \\ Cu = Copper \\ Pb = Lead \\ Zn = Zinc \end{array}$ 

In May 2002, Roca began detailed research on the Foremore area geology, a comprehensive data compilation and an air-photo interpretation study. That work resulted in the definition of a number of new targets areas for mineralization that had not been recognized or pursued by Cominco in the past. Equity Engineering Limited was then contracted to carry out a summer 2002 field program that consisted of geological mapping, prospecting and geochemical specifically sampling focused at the target zones identified from our review. In addition to their efforts during the field season. Equity also prepared a qualifying report on the property which was summarized and filed with Roca's IPO prospectus.

Successful Compilation, Targeting and Fieldwork in 2002

As a direct result of our targeting efforts and successful field activities, a number of mineralized zones, comprising several different mineralizing styles were identified on the property. An unqualified success in terms of its outcome, the discovery of the SG Zone as a bedrock source area for one of the boulder fields has become a primary target for Roca. It should be noted that this discovery is the first, in the history of the property to locate source rocks for one of the mineralized boulder fields. It is our belief that, having discovered one such source, others must also be present to account for the wealth of mineralized boulders on the property.



Side Glacier Boulder Field Assay Results (Cominco 1989)

Boulder Type	Au (g/t)	Ag (g/t)	other
Altered Felsic Volcanics (8 samples)	7.3*	58	9.3% Zn+Pb

## North Boulder Field Assay Results (Cominco 1989)

Boulder Type	Au (g/t)	Ag (g/t)	other
Layered (29 samples)	1.0	96	13.7% Zn+Pb
Feeder (12 samples)	1.5	186	8.5% Zn+Cu

## South Boulder Field Assay Results (Cominco 1991)

Boulder Type	Au (g/t)	Ag (g/t)	other
Massive Sulphide (53 samples)	n/a	102	11.3% Zn+Pb





# **Foremore Exploration Potential**

The Foremore Property lies within an extremely rich metallogenic belt that is a direct result of prolonged island arc volcanism. This world-famous belt hosts a number of very significant mines and resources, displaying a wide variety of genetically related mineralization styles, including:

<u>Porphyry Copper-Gold-Molybdenum</u> = Schaft Creek, Galore Creek, Kerr/Sulpherets; <u>Intrusion Related Mesothermal Veins</u> = Snip and Johnny Mountain gold mines, Red Mountain; <u>Epithermal Gold-Silver Veins</u> = Sulpherets, Newhawk, Premier Mine, Golden Bear Mine; and, <u>Volcanic Hosted Massive Sulphide</u> = Eskay Creek Mine, Tulsequah Chief Mine, Granduc Mine.

The SG, SG East and North zones share many mineralogical and grade characteristics with world-class VHMS deposits. Au and Ag enriched stratiform sulphide mineralization is hosted in felsic to intermediate volcanics and associated sedimentary rocks.

Past exploration work at the Foremore Project by Cominco consisted of geological mapping, prospecting, rock sampling, soil and stream geochemistry, ground geophysics and diamond drilling. Recent work by Roca has been very successful in targeting and subsequently discovering significant VHMS mineralized zones. These zones (some with coincident geophysical conductors and geochemical anomalies) will be advanced by trenching and diamond drilling during Roca's Phase I exploration program commencing in June 2003. Concurrent mapping, prospecting and sampling will be carried out to locate the bedrock sources of the North Boulder Field (NBF), South Boulder Field (SBF) and the East Boulder Field (EBF).



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