JERICHO

MINES

LIMITED N.P.L.

INFORMATION BULLETIN
AND MAP OF
HIGHLAND VALLEY
COPPER DISTRICT

HEAD OFFICE SUITE 204 717 WEST PENDER STREET VANCOUVER 1, B.C. Described as potentially one of the biggest copper mining areas in Canada, THE HIGH-LAND VALLEY CAMP of south central British Columbia is the focus of attention by several of the world's largest copper operators.

Reason for this interest is the success which has attended the aggressive exploration program under way by American Smelting & Refining Co. on the property of Bethlehem Copper Corp., the company which pioneered the present wave of development.

In Bethlehem's Jersey Zone alone reserves were estimated late last year at 56,000,000 tons of commercial grade copper ore. Vertical diamond drilling on a grid pattern has since added substantially to this tonnage and indicated an important increase in average copper content.

Results to date carry promise of a concentrator of 10,000 tons—or more—per day and have captured the imagination of mining men and the investing public alike. Ready access to rail transportation and the smelter at Tacoma, Washington, 250 miles to the south, are economic advantages bearing on ultimate success of operations.

PROPERTY AND LOCATION:

JERICHO MINES LTD., by outright ownership and through Goldmont Porcupines Mines Ltd., the original vendor company, controls tremendous acreage — around 1,000 claims — located in the area surrounding the Bethlehem-A. S. & R. holdings. A PROPERTY MAP OF HIGHLAND VALLEY, with the Jerichocontrolled holdings indicated, is carried on the inside pages of this bulletin.

The Main Jericho Mines property is situated in the eastern part of the Highland Valley area and comprises 40 claims having a total area of approximately 2,800 acres. It is located along Witch's Brook, about 16 miles east of Spence's Bridge and 24 miles southeast of Ashcroft. Completely modern camp buildings capable of housing crew of 60 men have been constructed. A public road providing motor transport to Ashcroft, Kamloops, Merritt and outside points traverses the entire length of this property.

The following descriptive excerpts are from a Report on Operations by Hamlin B. Hatch, Jericho's consulting geologist:

GEOLOGY:

"The entire area is underlain by the Highland Valley granite batholith. The rocks of the

batholith in so far as investigation has proceeded comprise mainly a coarse, slow-cooling granite mass, with occasional phases of quick-cooling, fine-grained acid rocks. These acid rocks can be

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termed aplitic and porphyritic phases of the granite mass.

"The section of the batholith underlying the Jericho property has been subject to intense structural activity, and the resulting fault zones are numerous. The main fault on the Jericho ground is the Witch's Brook fault, which traverses practically the entire northeast-southwest length of the Jericho property—a distance of approximately 31/2 miles. The Witch's Brook fault is one of the main structural features of the Highland Valley batholith. Numerous minor faults, evidenced by deep-cut gorges in the terrain, strike into the Witch's Brook fault at an oblique angle. It is in, and in close vicinity to, these minor fault zones that the copper discoveries to date have been made on the Jericho property.

MINERALIZED ZONES:

"Three mineralized zones have been located on the surface. Two of these outcrop, and the third was located by preliminary diamond drill-

JERICHO MINES LTD.
HIGHLAND VALLEY PROPERTY

ANOMALOUS ZONE

12,000 feet long approx.
3,000 feet wide approx.

MARKS

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ing. The strike of these three zones is identically the same, and it is believed that they are one and the same zone. The strike length over which these three zones apparently extend is $3\frac{1}{2}$ miles. The Kim zone, the farthest southwest, is mineralized over a width of approximately 1000 feet; the center zone, as evidenced by diamond drilling, is over 500 feet in width; and the outcropping zone on the northeast on the Mark's claim is at least 500 feet wide. The area between these zones is heavily overburdened, but evidence is present that the mineralization is probably present over the entire $3\frac{1}{2}$ miles of strike length.

"The mineralized zone is a fractured sheared zone in the batholith. The mineralization comprises chalcopyrite, bornite, malachite, azurite and molybdenite in cleavage planes, joint planes, fractured zones and shear zones in the batholithic mass. The unfractured granite is in places mineralized with chalcopyrite and bornite, indicating that part of the mineralization is of primary origin.

"Rough samples from the outcrops have indicated that sections of the mineralized zones carry copper values from 0.3% to 7% copper. Until further development is done, the actual copper percentages of the zones is still to be determined.

"The writer assesses the discovery and preliminary results on the mineralized zone as very promising.

DIAMOND DRILLING:

"In the winter of 1955-56, a diamond drill hole was drilled on the Jericho ground. This hole was 717 feet in length, and was continuously in the mineralized zone from the collar to the bottom. This hole was drilled away from the fault zone, and the mineralization occurred only in the joint and cleavage planes of the granite and not in sufficient quantity to constitute ore. However, the hole proved the characteristic mineralization of the Highland Valley batholith to a point 400 feet vertically below the lowest point in the valley.

GEOLOGICAL MAPPING:

"This work has been completed over the

entire Jericho acreage. A baseline 3½ miles in length has been cut, and subsidiary lines at 400 foot intervals and perpendicular to the base line strike have been completed. Prospecting during the course of this work resulted in the discovery of the outcropping Mark's zone.

GEOPHYSICAL SURVEYING:

"McPhar Geophysics Ltd. have completed a geophysical survey on part of the Jericho holdings in Highland Valley, B.C. In their report 5 large anomalies have been indicated along a total length of strike of approximately three miles. Four additional smaller anomalies are also

indicated in the mineralized area. The five main anomalies are numbered Zone "A"—Zone "B"—Zone "C"—Zone "D" and Zone "E". The total strike length of these five anomalies is approximately 9,000 feet. The width varying from 400 to 800 feet. Suface copper discoveries have been located in five places on the anomalies in widely separated sections from the southwestern extremity to the northeastern extremity of the area covered by the anomalies. Recommendations are made for detailed magnetometer survey of the indicated anomalies, this detailed survey to be followed by diamond drilling where results warrant. The general result of the magnetometer survey can be considered very favorable.

CONCLUSIONS AND RECOMMENDATIONS:

"There has been located on the Jericho property a wide mineralized zone carrying appreciable amounts of copper minerals together with molybdenum. This zone, from investigation to date, has an approximate width of 1000 feet and is traceable intermittently for 3½ miles on the Jericho ground. Rough sampling has indicated in places copper values ranging from a fraction of 1% to 7%. In addition, molybdenite values are invariably present.

"It is believed that the planned diamond drilling, which is definitely warranted by the surface discoveries to date, has an exceptionally good chance to locate economic orebodies along the strike of the mineralized zone and in the vicinity of the Witch's Brook fault.

"The writer is definitely of the opinion that the continued investigation of the Jericho property, because of the promising mineralization already located and the structural conditions present, will result favorably."

"HAMLIN B. HATCH", GEOLOGIST

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