MiE MOLLYCOT BROPERTX

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KEREX MINES LTD. (N.R.L.)

BY

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## THE MOLLYCOT PROPERTY

## INTRODUCTION

The Mollycot property 18 composed of one Crown Grant mineral claim and ten adjoining located claims. The Mollycot chowings and workings are on this group. In addition thare are 50 locsted claims tied onto this group, and apart from the manganese deposit little or no work has been done on the many showings Locsted thereon.

The main showings are one mile west of the small settlement of Olalla on B.C. Provincial Highway *3. This is 230 miles from Vancouver; 25 miles southwest of Penticton and 4 miles north of Keremeos.

The entire area has been progpected intermittently alnce 1900. Numerous copper, molybdenum, gold, silver, iron and manganese showings have been stripped, trenched and in some instances drilled or had short proopect tunnels driven on them over the years.

The Mollycot deposit was tested by three adit tunnels in the $1930^{\prime}$ and again in the $1950^{\prime} \mathrm{s}$. The deposit is a fissure vein type containing heavy shoots of copper and molybdenum mineralization.

Excellent grade sulphide deposits were opened up on what is termed the Dave 11 adit tunnel and some high grade material was stoped therefrom for m1ll－test and metallurgical research purposes．A new low－level adit，the Joe $⿰ ⿰ 三 丨 ⿰ 丨 三 一$ 1，currently being driven， has intarsected the deposit 275 feet below the Dave 非 tunnel．The zone at the lower elevation is considerably wing than in the shallower tunnels and where first intersected somewhat lower grade， but the firat rounds of hanging wall and footwall drifts have en－ countered aimilaz heavy chalcopyrite and molybdenite mineralization．

This report is based upon numerous exaraination of the property by Alfred R．Allen，P．Eng．，and Robert L．Roscoe，P．Eng．， of Allen Geological Engineering Ltd．，during 1967．Valuable data has been acquired from reports and maps of the British Columbia Department of Mines，the Geological Survey of Cansda，and independ－ ent engincers．

PROPERTY
The Mollycot property is composed of the following mineral
claims：

| Copper King－Lot 3065 |  | C．G． |  |
| :--- | :---: | :---: | :---: |
| Voight－Record Number |  | 6052 |  |
| North Star Fraction | Record Number | 6053 |  |
| Trout Fraction | ＂ | ＂ | 6422 |
| Alma No．1．Fraction | ＂ | ＂ | 8067 |


| Alma No. 2 Fraction | Record Number | 8068 |  |
| :--- | :---: | :---: | :---: |
| Alma No. 3 | " | " |  |
| Alma No. 4 | " | " | 8085 |
| Alma No. 5 | " | " | 8086 |
| Alma No. 6 | " | " | 8065 |
| Alma No. 7 | " | " | 8066 |

## GEOLOGY

Sedimentary and volcanic Permian and Triassic rocks have been invaded by dioritic and alkaline stocks and dykes $1 n$ and around a large body of pyroxenite. Late Eocena volcanic and sedimentary rock cover sizeable but scattered areas. The pyrowendte outcrops on both aides of Olalla and Karmeos creeks and measures 2 miles east-west by liz miles north-south.

## MINERAL SHOWINGS

The main copper-molybdendte deposit is not strongly evident on the surface, but has been exposed by adit tunnels over a vertical distance of 400 feet. It is a fisoure-vein type of a deposit and contain sizeable zones of chalcopyrite, pyrite, molybdenite with minor pyrrhotite, magnetite and pother minerals. The host rock is pyroxenite and in erratically btrongly magnetic, hence preliminary chain and Brunton Compass surveys made to date are inaccurate end show only the approximate location of the tumble.


Until recently the main showings were in the Dave \$1. tunnel, where in 450 feet of drifting there ia 333 feet of heavy mineralization in 4 closely spaced choots. Theso shoots are as follows, frou portaleend to face:-

| No. | Wideh | Length | Copper <br> $\%$ | Mos2 <br> 1 |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 2 | 115 | 1.58 | 0.81 |
| 2 | 2 | 30 | 4.03 | 0.84 |
| 3 | 2 | 38 | 1.88 | 0.70 |
| 4 | 3 | 150 | 3.88 | 1.46 |

The minexalized zones, within the general zone of ehearing, aro irregular in both atrike and dip and appear most heavily minoralizel whers thare is warping and cross shearing. Gangue minerals are chiefly quartz, calcita, mica, feldspars and graphitic material.

The new lover lovel adit tunnel is named the Joe kl. It Is a crosscut south to southwesterly through pyrorente. The flanure vein was intersected 574 feet from the portal and is 30 feet thick. It is atrongly sheared and is laced with quartz-calcite and quartzfeldspar veins in and near wiich are chalcopyrite, pyrite, molybdenite and magnetite. The altered host rock contains biotite, serfcite, pyroxenes and minor amounts of brick red and light brow, minerals aleo noted in the upper levels. An 18-foot drift has been driven on the Lootwall and a 6-foot one Btarted on the hanging"
wall. Where intersected by the adit tunnel the zone is not as high grade as the minerallzed zones in tha upper Dave 非 tunnel but there is good chalcopyrite and soms molybdenite throughout the 30 foot of width. In both driftes on the footwall and hangingwall, however, both the chalcopyrite and molybdenite are present in amounts similar to the batter cections in the upper workings. On the footwall of the zone, for a distonce of 12 feet to the present tunnel face, the pyrozenite is brocciated and contains patchy dissew minations and fracture fillings of pyrite and chalcopyrite. Insufficient eampling has been done on this zone as the drifts axe currently just boing sterted, but by visual inopection it appoars that excellent grade for both copper and molybdente is present and the zone is about 10 times as wide as in the Dave 游 adtit 275 feat above.

## MOLLYCOT WORKINGS

On the Voight minaral claim there are 4 adit tumels which explore the atrong copper-malybdenum-bearing vein system. The top tunnel, nomed the Eric ${ }^{\prime} 1$, is a 170 foot crosscut east at an clevation of 2,845 feet which did not intereect the fiseuro voin. It appears that a short drifte to the south should intersect the zone.

Below, at an elevation of $2,7,96$ feet, the Eric \#2 edit tunnal was driven along a shear zone 60 feot aouthwestexly, and then 22 feet southeasterly where it intersected the issure vein. It
was then driven southeasterly on the vein for 227 feet．Fifty feet from the sace it was connected with the Dave 非 tunnel by a zaise on the mineralized vein．The vein in the Eric 费2 tunnel has not been mapped and sampled by the writer，but was reported by Mac－ Dougal P．Eng．，to average about 2 feet wide and be gimilar to that developed 125 feet below in the Dave＂1 adit tunnel，that is heavily mineralized with chalcopyrite and molybdenite．

Dave 价 Adit alevation 2,675 feet above sea level
A crosscut dziven southerly for 90 feet intersected tha shear zone where it is thin and only weakly mineralized．It was continued for an additional 200 feet beyond without any interecerions of importance．The shear zone was drifted on for 100 feet easterly Where heavier shearing containing sulphide mineralization was eno countered．The tunnel is then directed southeasterly 450 geet on the shear zone and 333 feet of this length is through heavy sulphide minerallzation．Near the face the ehear is warped and the veln ewinge over from one gide of the tunnel to the other．This change of attitude may be significant of a favourable zone ahead and the tunnel should be extendad．

Joe \％1 Adit，elevation 2,400 Eeet above aea level
This recently located adit crosscut wos colored 275 feet below the Dave 翟1 tunnel on the south side of creek．It was directed a few degrees west of south for 180 feet and when turned to the southwast for 436 feet at time of writing．What appears to
be the downward extension of the main fiscure vein was encountered at 574 feet and passed through at 604 feet. The tunnel face is in brecciated pyroxenite with minor patchy chalcopyrite diosemination, and should be extended.

If additional mineralieed zones are encountered whea the tunnel in driven southwesterly these can bo investigated. In the meantime the exposed zone should be tested by dxifts both to the northwest and poutheast and crosecuts through the zone every 50 feet. Two drifts have been staxted, one on the Eootwall wheh will be continued northwasterly and one on the hangingwall to tost thin section for a ehort distance. The Eootwall drift is in 1.3 feet and the hangingwall drift 6 feet, and both are in heavy chalcopyrite, molybdenite mineralization similar to thet cxposed in the upper tunnels.

A dianond drill station could be advantageously located 250 feet back from the face to allow for drilling to test the downvard extension of the zone. Plans thould be made to Intersect it at dopths of 125 and 250 foer below the Jou 1 adit level.

## CONCLUSTONS

The Mollycot property is a Eixst class prospect upon which the novly drlven Joe "1 adtt runnel has located the downard e\%w cension of the heavily mineralized zone 275 feet below the fozmert -

## bottom leve1.

Where intersected the zons is 30 feat thick and two short
drifes on each wall shows it to be mineralized wheh chalcopyrite
and molybdenite s1milar to thet on the Dave 解 tuncl level.

It is concluded that a major step in the successful dever lopment of the Mollycot property has been realked and virorous underground work should be expedited forthwith.

## RECCMMENDATIONS

The following works progzarme is herewt th recomonded es
cazry through until the spzing season:-
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1. Have a chiain and transit survey made of the Mollycot workinga and surwounding area, and make a plen map with contours sketched at 20 foot intervala
$\$ 2.500 .00$
2. Advanca tha new number 4 adte tunnel gouthwenterly $10,000,00$
3. Drift northwest and southeast on the mineralized zone encountered in the adit batween 574 and 604 feet from the portal
4. Cut a dimond drill stetion obout 250 feet from the pregent foce of the lower adis tunnal bul dirt11 two holes to intersect tho mineselized zone 1.25 and 250 feet belay the loval. If satism factory mineralization is encountere fan holos to tho zight and loft to zar wacet the zope one hundred feet to the righte and lofe of ca? of the stret two hales

## Estimated

5. Prospect the Rap, Tep, Cap, and Moll claims, and make a preliminary geological survey of the entire property in the epring when wather pexmits
$10,000.00$
6. Office, logal, accounting, engineering and overhead 15,000.00
7. Contingencies fund TOTAL
