Contains ore reserve

Dolmage Nov. 15, 1954.

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Noto recommende also THE MOVICAR COPPER PROPERTY

INTRODUCTION

The McVicar Copper claims are situated in the Coast Range mountains of British Columbia, about 40 miles north of Vancouver and about 10 miles southeast of Squamish, a seasort at the head of Howe Sound 40 miles north and a little west of Vancouver. The McVicar claims lie along the head waters of Goat or Raffuse crack which flows into the Managuam river about 6 miles from its entrance into Howe Sound near Squamish. The numerous showings are widely scattered over a large area, but are confined mainly to the creek valleys and to high summits where nature has removed much of the overburden.

The showings range from 2700 to 4500 feet above sea level.

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PERMAL GEOLOGY

The Coest Range mountains consist asialy of granodiorite but in this formation are numerous large remaints, many miles in extent, of the older volcenie and sedimentary rocks and it is in those rather than in gamadiarite that the mineral deposits of the region are located. The largest devote in the southern part of the Coast Range is the Britannia mine which is siduated on the east shore of Howe Sound 8 to 10 miles southwest of tollicar. This mine has been in operation for more than 50 years and is now producing copper-zinc ore at the mate of 5000 tons per day. This ore, as well as its goological environment to moreny resemblances to the McVicar ores.

MOVICAR MINERAL BELD

Most of the important showings on the MoVicar property lie in a well defined belt which extends in a north 30 degree west direction from the highest and most coutherly showings on the Whistler claim. From here the belt crosses the Grouse, Harding, Rainetonn and Cabin claims.

Six groups of showings have been discovered in this belt by surface prospecting. These were formerly referred to by numbers, but since the numbers were assigned new showings have been found and the original ones extended. Because of this it was thought advisable to rename the showings according to the claims on which they occur and they are now referred to as the Whistler, South Harding, North Harding, Rainstorm and Cabin. The Whistler, North Harding, Rainstorm and Cabin. The Whistler, North Harding, Rainstorm and Cabin were formerly known respectively as the numbers 1, 2, 3, 5 and 7.

East of this belt are several other showings, such as those on the Lillie and the northeast part of the Rainstona claims, known respectively as the number 1 and the number 4 showings. These have significant surface showings but have not yet been tested by drilling.

The Cabin and Rainstorm groups were drilled in 1953 and the results of this work were discussed in the above mentioned reports by Dereck Davidson and the writer. The results of the Rainstorm drilling have been included in the plan and longitudinal section accompanying this report so as to give a better over all picture of the mineral belt as a whole.

1954 DRILLING AT MOVICAR

The accompanying plan and longitudinal section - Figures 1 and 17 respectively - show the positions, directions and longths of all the holes drilled in the mineral belt except two drilled on the Cabin claim.

Those on the Rainetorm were drilled in 1953 and as they have been previously described they are only briefly mentioned in this report. The assay values of the ore found in each of the drill holes are recorded in the accompanying crosssections - Figures 2 to 15 and on the accompanying tabulation. The ore values are also shown but in less detail on the longitudinal section - Figure 17.

WHISTLER SHOWINGS (2)

The surface showings on this claim contain high values in lead and zinc as well as copper, as shown on the accompanying longitudinal section. Only two holes, numbers 2-1 and 2-2 were drilled under these showings. These cut the ore zone at two points close together and about 200 feet directly under the outcrop.

and 5, only 1 small vein 2 to 5 feet wide and carrying neglegible assumes of metal, was cut by these two holes. However, it is quite possible that the mineralization might rake either to the north or south in such a way as to pass out of range of these holes. Further drilling should be done to test this possibility.

SOUTH HANDING SHOWINGS (3)

These showings are about 600 feet north of the Whistler showings. No important mineralization was found on the surface at this locality. Three holes were drilled which cut the mineral belt 75 to 100 feet below the outcrop. Two of the holes, labelled 2-3 and 2-4, cut a number of narrow veins 1 to 2 feet wide, carrying high values in lead, zinc and copper, as shown on the longitudinal section and on cross section 6 and 7.

This ore is similar in character to that on the Whistler claim and differs from that on all the other showings in having more lead and sinc and less copper. Fore drilling in this vicinity, both to the south and north, as well to greater depths is required to adequately test this group of showings. Present information is not sufficient to enable ore estimates to be made.

NORTH HARDING SHOWINGS

Four prominent surface showings were exposed by trenching in this area. These assayed respectively 1.15% copper across 10 feet, 3.15% copper across 12 feet, 3.0% copper across 13 feet, and 1.05% copper across 7 feet.

As shown in the two longitudinal sections, 9 holes were drilled under these showings, number 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7. 54-1 and 54-2. All ecountered some ore and several cut good widths of medium to good grade material. These ore intersections ranged from 200 to 350 feet below the surface and over a horizontal distance of 600 feet. The ore intersections, together with sampling results are shown on both longitudinal sections (figures 16 and 17) and on cross sections numbers 1 and 2, and 9 to 15. This drilling indicated one continuous bend of ore as well as two or three smaller and more less parallel branch voins. Owing to its irregular shape and its great variations in width and values, there are many ways in which its volume and average value may be calculated. The continuous band of ore has an average width of 6.8' and contains about 92,000 tens of ore averaging approximately 2.0% copper. Neither the horizontal nor depth limits of this ore body have been determined and much more drilling should be done. There is a possibility that this ere body may be found to be continuous with the Rainstors orebody to the north and the South Harding orebody to the south. The Rainstorm orebody, drilled in 1953, is estimated to contain 40,000 tons of 2.0% copper over an average width of 9.8 feet.

There is, therefore, now indicated on the property about 132,000 tons of 2% copper ore, with minor amounts of lead, sinc and silver. While this is not sufficient to warrant the immediate consideration of a milling operation, still progress is being made and the property still has many attractive possibilities which deserve further investigations.

RECOMMENDATIONS'

It is recommended that further drilling be continued in 1955. The objectives of this drilling, named in their order of importance, are as follows:

- (1) Try to expand the North Harding ore body by drilling north and south of and under the present holes.
- (2) Test the section between the South Harding and Whistler showings. The first holes in this area should be drilled at shallow depth.

- (3) Test the South Harding showing at greater depth and over a greater length.
- (4) Drill two wildcat holes in the areas between the South Harding and North Harding showings and between the North Harding and Rainstorm Showings.
- (5) Test the Lillie showings at depth.

GEOLOGICAL CONSIDERATIONS

All of the above recommendations are made with little regard to geology. Little or no progress has been sade towards an understanding of the controlling geological structures. It now appears probable that the ore bolt is following certain fragmental bods of volcanic rock which strike northwesterly and dip couthwesterly. It also seems probable that the best ore lies in local variations in the strike or dip of these beds. If these theories could be proved it would speed up the process of finding ore. It is too much to ask of any one engineer to manage the camp, do the surveying, log the cores, do the sampling, keep the records and at the same time do the coological mapping and log the cores with the geological detail necessary. A young geological assistant to the engineer in charge would yield results of value far exceeding the cost. With the aid of such an assistant, two drills each working two shifts, could be well looked after. There would not be too much difficulty in finding a geological assistant if the summer's plans were made before the end of the University term.

Respectfully submitted,

DIAMOND DRILLING RECURD

1954 Season

No.	`Bearing	length	Dip	Elevation of Collar	Elevation at Bottom.	
54 - 1	N60°E	396°	450	5922'	3636*	
54 - 2	N80°E	421"	-570	3922"	3518'	
2-1	352°W	578 °	-45°	4470°	42001	
5-5	· S25°W	2961	-450	4470	4260*	
2-3	East	264	-45°	4294°	4110°	
2-4	n63°e	203'	-450	4294°	4150	
2-5	N320E	213°	-430	4296°	41470	
3-1	N60°E	402*	-450	4003*	3717°	
3-2	N40°E	434*	-56°	4003"	3641*	
3-3	East	455"	-570	4003*	3621'	
3-4	N53°E	400 9	-450	3986*	3700°	
3-5	NJ3°E	3941	-560	3906*	3656*	
3-6	N60°E	455°	-60°	3855°	3460°	
3-7	Rast	450°	-60°	3855°	3465	

RECORD OF SAMPLING AND ASSAYS

1954 Season

	Sample		To	Assays					
	No.			Oz. An.	Oz. Ag.	% Cu.	Я Pb.	% Zn	
54-1	12542	167	174		1.2	1.2	0.4	0.1	
	12543	174	180		0.1	0.8	T.	To	
12544 12545		180	186		0.2	0.9	T.	T.	
		186	190		0.2	0.3	T.	T.	
	12546	190	195		0.4	0.6	T.	0.8	
	12547	195	201	•		0.1	T.	T.	
	12548	201	206		-	0.3	T.	T.	
	12549	206	211	•	••	0.5	T.	1.9	
54-2	12541	259	274	•	0.1	0.3	0.4	T.	
2-1	12538	207	209		0.2	0.6	0.3	0.8	
2-2	12537	243	248	T.	1.4	0.3	-	-	
2-3	12539	97.5	99.5		0.6	1.6	7.9	14.1	
2-4	1063	52	. 53			0.5	Te	T.	
	1061	74	75			0.7	3.2	8.3	
	1062 -	89	90			0.5	1.5	2.4	
	1060	132	134	•	T.	3.1	T.	2.4	
	1064	149	150	•		5.5	· T.	7.1	
3-1	12534	121	123	T.	0.4	1.6			
	12533	235	258	7.	0.6	2.4	4.1	7.7	
3-2	12531	106	196	T.	1.2	2.8	0.1	0.3	
4-8-5	12532	255	270	T.	1.1	1.5	0.2	1.8	
	12535	312	320	Te	0.2	0.6	0.1	0.6	
	12536	322	325	T.	T.	0.3		•	
3-3	1059	226	228	-	•	1.1	T.	4.7	
3-4	12540	137	142	•	0.8	2.4	T.	0.4	
	1058	324	332	-	-	1.8	T.	1.6	
3-5	12550	174	175			0.5	T.	1.9	
	1051	193	198	-		1.4.	T.	T.	
	1052	193	204			0.6	. T.	T.	
	1053	218	219			4.5	T.	T.	
	1054	247	251	-		2.9	T.	1.0	
	1055	251	255			3.2	4.4	9.3	
	1056	262	266			1.3	T.	T.	
	1057	266	269			1.8	· T.	To	

RECORD OF SAMPLING & ASSAYS - 1954 Season - Continued.

No.	Sample	From	To	Aecays				
	No.			Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.
3-6	1066	324	329	•	•	0.7	T.	T.
3-7	1067 1068 1069	311 313 318	313 318 323			0.4	0.1	0.2
	1070	323 328	328 334	0.02	0.3	0.1	0.1	0.2
	1072 1073 1074	334 340 346	340 346 350	T.	0.2	T. 0.8 0.1	0.1 0.1 0.1	0.2

NOTE: A dash (-) indicates sample was not assayed for this metal.