



REPORT ON THE GEOLOGY  
GEOCHEMISTRY AND GEOPHYSICS  
OF THE RABBITT MASSIVE SULPHIDE PROPERTY,  
RABBITT AND BOULDER CLAIM GROUPS,  
SIMILKAMEEN MINING DIVISION,  
BRITISH COLUMBIA

826648

By: L.E. Thorstad  
Latitude: 49° 33' to 49° 37'30"  
Longitude: 120° 47'30" to 120° 50'  
NTS: 92H/10 Tulameen 1:50,000  
Owner: Harold J. Adams  
Operators: Ventures West Minerals Ltd. and Kenam Resources Ltd..

"Cousin Jack Showings"

"The Cousin Jack Showings" outcrop on the eastern flank of Boulder Mountain and are exposed in a number of trenches in the block of crown grants. The showings consist of a series of north-south trending, westerly dipping, tabular mineralized bodies hosted in dominantly acid fragmental rocks. Sphalerite and galena with lesser amounts of pyrite and chalcopyrite occur in the generally concordant bodies. Extensive work including a large number of trenches, shafts and 33 diamond drill holes expose, trace and intersect the mineralized horizon. Detailed reports of trenching are found in Annual Reports of Minister of Mines, B.C. (1933, 1937). Drill core, logs and assay data are not available. A geochemical survey (Millican, 1967) covers the area of the occurrences and clearly outlines mineralized areas by marked Pb and Zn anomalies. The extent of mineralization is highly variable as is evident from assay data shown below:

Crown Grant	Width	Pb	Zn	Au oz./ton	Ag	Reference				
Cousin Jack				.12	.6	Ann.Rept.Min.Mines 1901				
Cousin Jack		.7%		.20	.10	"	"	"	"	1934
Ymir	16"	∅	4.8%	.07	t	"	"	"	"	1937
Ymir	60"	∅	6.7%	t	.2	"	"	"	"	"
Cousin Jack	54"	∅	2.4%	t	t	"	"	"	"	"
Cousin Jack	54"	∅	2.3	.05	.2	"	"	"	"	"
Cousin Jack	70"	∅	4.2	.05	.4	"	"	"	"	"
Cousin Jack	Dump	∅	19.1	.32	1.5	"	"	"	"	"
Berlin Fraction	18"	12.9	18.6	.16	1.4	"	"	"	"	"
Berlin Fraction	66%	∅	3.1	.02	t	"	"	"	"	"

DIAMOND DRILLING

A total of 33 diamond drill holes have been drilled on the Rabbitt property. 73 holes for a total of 3,203' were drilled on the South Copper Zone and 5 holes totalling 526' on Mid Copper were drilled for Gold River Mines (Sookochoff, 1973) from November, 1972 to March, 1973 and 33 holes on the Cousin Jack showings.

Drilling in the South Copper showing "revealed the presence of underlying schist zones which are usually heavily pyritized and intercalated, narrow, usually heavily pyritized sections of flow breccia". Drilling indicates mineralization veins from 1 to 7' wide and has a shallow (10 to 20°) dip.

Drill hole assays are as follows:

<u>South Copper</u>	<u>Footage</u>	<u>Feet</u>	<u>% Cu</u>	<u>Comments on Mineralized Sections</u>
72-1	1-110	110	1.47	CP in quartz veins and disseminated pyrite in greenstone.
72-4	314-335	21	.28	Disseminated pyrite in porphyritic greenstone
73-1	12-19	7	1.29	CP in quartz carbonate veins.
	145-150	5	.15	
73-2	32.5-42.5	10	.08	CP in quartz carbonate "veins".
	42.5-48.5	6	.28	
73-3	54-59	5	1.74	CP in quartz carbonate "veins".
73-8	8-13	5	.70	Py-CP in quartz carbonate veins.
73-10	14-19	5	.30	CP in quartz carbonate veins.
73-13	68-73	5	.43	CP in quartz carbonate veins.
	101-106	5	.11	
73-14	117-122	5	.11	Py and minor CP in quartz carbonate veins.

Diamond drilling at the Mid Copper showing suggested that extension of the mineralized zone below surface showed a "pronounced decrease in chalcopyrite mineralization" (Sookochoff, 1973). Assay data from drill holes.

<u>Mid Copper</u>	<u>Footage</u>	<u>Feet</u>	<u>% Cu</u>	<u>Comments on Mineralized Zones</u>
73-4	29.5-34.5	5	.04	"sulphides in quartz carbonate ve
73-5	31-36	5	.31	Disseminated Py in siliceous zone
73-6	9-14	5	.01	Disseminated Py in siliceous greenstone and schist.
73-7	1-6	5	.21	CP and disseminated Py in silicified schist.

Assay data at both the South and Mid Copper showings indicate negligible gold values and only minor silver values that are associated with chalcopyrite.

Drill hole locations and sections (Sookochoff, 1973) are shown in Figures

Two diamond drill holes (Betmanis, 1979) were drilled for Northern Lights Resources Ltd. in 1978 on the Mid Copper showings. Disseminated pyrite and numerous quartz stringers were evident in "andesite" but no massive sulphide mineralization was intersected. Rocks from both holes were assayed at 5' intervals for  $\text{MoS}_2$ , Cu, Pb, Zn, Ag and Au and results are found in Appendix 1 and summarized below:

	<u>MOS<sub>2</sub></u>	<u>Cu %</u>	<u>Pb %</u>	<u>Zn %</u>	<u>Ag oz/ton</u>	<u>Au oz/ton</u>
Average concentration	.001	.012	.01	.018	.012	.001
Maximum concentration	.002	1.25	.01	.06	.22	.002
Minimum concentration	.001	.01	.01	.01	.01	.001

One drill hole on the Hilltop One showing was collared for Northern Lights but drilling was not completed. Drill core scattered in the vicinity of the "hole" was brought from the northern part of the property (Adams, pers. comm, 1979).

The Cousin Jack showing has been quite extensively drilled for Gold River Mines during the mid 1970's. No reports, drill hole plans, logs or core are available from this program.

No drill core is available from any of the drill programs conducted on the property. Drill core from the two Northern Lights holes has been preserved but, due to lack of co-operation on the part of Northern Lights Resources and Acme Labs are not available.