

REPORT ON THE PAULA GROUP, KETCHIKAN MINING DISTRICT, ALASKA, U.S. A.

Summary and Conclusions.

The Paula Group of mineral claims owned by Northwest Ventures Ltd., Vancouver, B. C., Canada is located on the southern portion of Gravina Island, Ketchikan Mining District, Alaska. The group comprises 49 claims and covers a mineralized zone three miles in length. The showings can be conveniently divided into the south zone and the north zone. The south zone occurs in a quartz monzonite which has been fractured in a north 50 degree west direction with a dip of 75 degrees north-east. At the south-east end of the zone, and exposed on the beach, the fracturing is 240 feet in width. Here the monzonite is highly silicified and cut by a stock work of quartz stringers. Chalcopyrite occurs uniformly disseminated in the rock mass while the stringers carry higher grade material. The main gangue mineral is quartz with little or no pyrite. A fresh blasted face within the zone assayed 2.17% copper across a true width of 20 feet, all samples were chipped. Time did not permit opening up more of this showing. What appeared to be the best material in the 240 feet assayed 5.00% copper, the least mineralized material 1.05% copper. Three thousand feet distant along the strike similar material, where exposed, assayed 1.70% copper across 8 feet.

The north zone comprises six north-west trending silicified zones with widths up to 70 feet and unknown lengths. These zones occur in chlorite schist and contain considerable pyrite with disseminations of chalcopyrite. Some magnetite was noted. Chip <sup>USE a MAGNETOMETER?</sup> ~~Traces~~ sampling across widths from 3 to 9 feet have shown values of 2.00%

to 14.00% copper. The highest gold value was 0.12 ounces but the average of all the samples taken would be 0.02 ounces.

This property has decided merit and it is recommended that a program of geological mapping, trenching and thorough sampling be undertaken prior to any diamond drilling. This work would take three weeks.

REPORT ON THE PAULA GROUP; KETCHIKAN MINING  
DISTRICT, ALASKA

Introduction.

From the turn of the century until 1915 Southeastern Alaska was the scene of considerable activity in copper mining. At that time 6% copper was considered the minimum grade which could be worked and consequently large low grade deposits were overlooked. The Exploration Department of Northwest Ventures while working in the Granduc Area deemed it advisable to investigate some of these old areas in Alaska especially where the Geological reports showed the existence of major shear zones.

Messrs. T. J. McQuillan, K. Sampson and J. B. Thurber proceeded to Gravina Island to investigate the possibilities of copper deposits in a large shear zone. They staked the Paula Group of mineral claims and later J. A. Borthwick staked the Kitz Group which together comprise 49 claims all of which belong to Northwest Ventures Ltd.

Location.

This property is situated on the south-east portion of Gravina Island between Seal Bay and Dall Bay. It extends 3 miles in a north-south direction and three quarters of a mile in an east-west direction.

Access.

Ketchikan, a city of approximately 5,000 inhabitants, is 13 miles distant by water from the property. Transportation can be accomplished in fine weather by boat or aircraft from Ketchikan to Dall or Seal Bay. During bad weather Bostwick Inlet affords the only sheltered place.

### Climate.

As at Ketchikan this area has considerable cloudy days and the precipitation would be about 165 inches a year.

### Topography.

The relief on this property is not great. The highest point is 1100 feet above sea level. West of the property is Funch Hill which is 1900 feet in elevation.

### Vegetation.

There are considerable areas of muskeg and cedar swamp, the underbrush is light and no difficulty is experienced travelling to any point on the property. Spruce, hemlock and yellow cedar occur in many places and can be used for mining purposes.

### Water.

Adequate water supply for diamond drilling or domestic purposes is available. As far as known there is no stream which could yield sufficient power for large scale mining operations.

### Regional Structural Geology.

This property occurs at the intersection of a large shear zone and a south-west axis of folding. It lies 10 miles west of the western contact of the coast range batholith. This axis of folding is the same as that which localized Granduc. From a regional point of view this area should be very favourable.

### Geology of the Property.

This property has only been staked and the detailed geology has not started. From a rapid reconnaissance of the property there is a large north-east shear zone probably 400 feet in width which traverses the staked ground. Showings of copper occur in the shear, these have not been opened up or sampled. The shear occurs as a chlorite schist and has developed from the

deformation of volcanic flows, tuffs and agglomerates of unknown geological age (probably Mesozoic). The main showings occur in north-west trending fracture zones which appear to owe their origin to movements along the main shear, this will only be proved by detailed work. The showings occur as large silicified zones with lengths unknown. Mineralization in the south zone consists mainly of chalcopyrite with little or no pyrite while the north zone contains massive pyrite with disseminations of chalcopyrite. Minerals noted on the property are barite, hematite and magnetite.

#### Sampling to Date.

Many samples have been taken to date on various showings. These consist mainly of chip samples taken across true widths and a few grab samples. The main values are copper, small but consistent gold values are found. The highest gold value was 0.12 ounces, the lowest 0.01 ounces. The gold value seems to have no relationship to the copper content as yet. The samples with their widths and value are plotted on the map accompanying this report.

The widths and values obtained are very encouraging.

November 25, 1954

J. R. WILLIAMS & SON LTD.

File No. 120417/426

Vancouver, B.C. Sept. 29, 1954

RESULTS of Assays made on samples of ore submitted by:  
Northwest Ventures

	<u>Mark</u>	<u>Gold</u> <u>Ozs. p/t</u>	<u>Silver</u> <u>Ozs. p/t</u>	<u>Copper</u> <u>%</u>
No.	1	0.02	Trace	1.45
	2	0.01	Trace	6.70
	3	0.03	Trace	14.70
	4	0.04	Trace	13.50
	5	0.05	Trace	3.75
	6 no Tag.	0.12	Trace	0.60
	7	0.02	Trace	3.70
	8	0.02	Trace	10.35
	9	0.015	Trace	0.30
	SL.No-101	0.04	0.45	2.00

J. R. WILLIAMS & SON LTD.

File No. 120759/772

Vancouver, B. C. Oct. 28, 1954

RESULTS of Assays made on samples of ore submitted by;

Northwest Ventures

	<u>Mark</u>	<u>Gold</u> <u>Ozs. p/t</u>	<u>Silver</u> <u>Ozs. p/t</u>	<u>Copper</u> <u>%</u>	<u>Iron</u> <u>%</u>
No.	14951	0.01	Trace	3.95	
	14952	0.01	Trace	6.10	
	14953	0.01	Trace	0.45	
	14954	0.01	Trace	1.20	
	14955	0.01	Trace	0.10	
	14956	0.01	Trace	1.75	
	14957			0.30	35.70
	14958	0.04	Trace	4.80	
	14959	0.01	Trace	4.30	
	14960				9.00
	14961	0.025	Trace	5.20	
	14962	0.01	Trace	0.90	
	14963	0.04	Trace	5.05	
	14964	0.01	Trace	2.15	

J. R. WILLIAMS & SON LTD.

File No. 120888/898

Vancouver, B.C. Nov. 15, 1954

RESULTS OF Assays made on samples of ore submitted by:

Northwest Ventures

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	<u>Mark</u>	<u>Gold</u> <u>Ozs. p/t</u>	<u>Silver</u> <u>Ozs. p/t</u>	<u>Copper</u> <u>%</u>
No.	16701	0.03	Trace	2.00
	16702	0.01	Trace	1.75
	16703	0.01	Trace	2.05
	16704	0.02	Trace	1.20
	16705	0.01	Trace	2.20
	16706	0.01	Trace	2.60
	16707	0.02	Trace	2.05
	16708	0.01	Trace	1.05
	16709	0.02	Trace	2.80
	16710	0.01	Trace	2.60
	16711	0.01	Trace	1.70



Northwest Ventures Ltd.

(N.P.L.)

515-850 West Hastings Street,

VANCOUVER, B.C.

Feb.17/55

Mr. Art Glover,  
Ketchikan, Alaska,


Dear Mr. Glover,

Many thanks for your prompt reply to our letter regarding the DMB loan application. When we hear further from Juneau we will keep you posted.

I thought you may be interested in Bish Thurber's report on the Gravina Island showing, so am enclosing a copy. You can pass it along to Juneau if you think they would be interested.

Yours very truly,

NORTHWEST VENTURES LTD.,

  
by:  
J.R. Mc Nicol

DEPARTMENT OF MINES  
RECEIVED  
FEB 23 1955  
JUNEAU, ALASKA