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A REPORT ON
GEO-CHEMICAL SURVEYS
OF THE
PAS CLAIM GROUP
AND
O CLAIM GROUP
BABINE LAKE AREA
OMINECA MINING DIVISION
54° 40' - 126° 15' N.W.

93L/16W

By

S. J. Hunter, P. Eng.

For

RIP VAN MINING LTD.(NPL)

Vancouver, B. C. January 19, 1968

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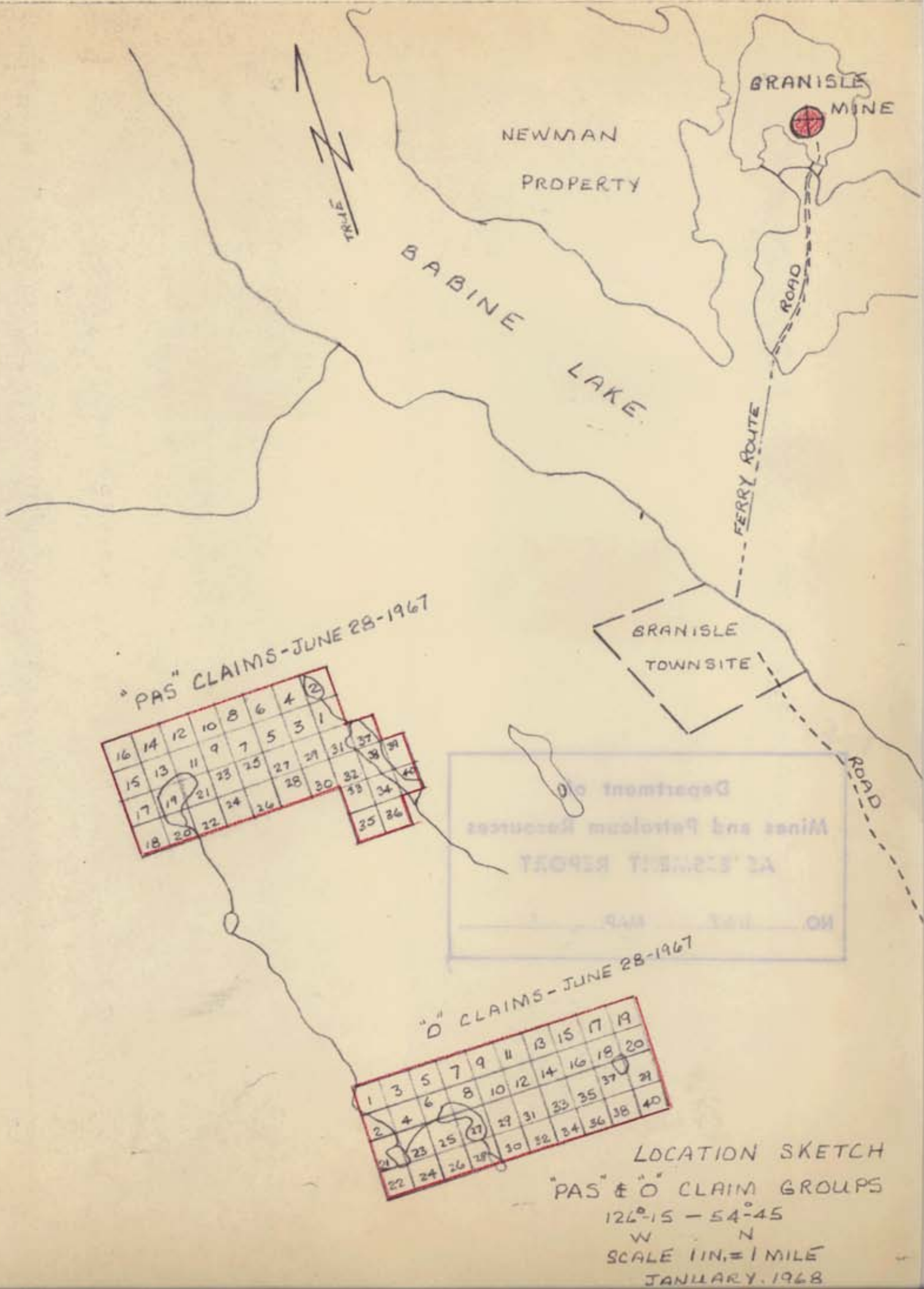
INTRODUCTION

This report is on a geo-chemical survey and prospecting conducted by the author on the " Pas " Claim Group and the " O " Claim Group during the months of June, July, August and September, 1967 for Rip Van Mining Ltd.(NPL).

An aerial geophysical survey by fixed-wing aircraft employing scintillometer, magnetometer and electromagnetic equipment was first carried out over the area to define targets. Subsequently soil sampling for copper content across the anomalies and claim areas was initiated to test the targets for presence of metal anomalies in order to


BRANISLE MINE
NEWMAN PROPERTY
TRAIL
BABINE LAKE
ROAD
FERRY ROUTE
BRANISLE TOWNSITE
ROAD
"PAS" CLAIMS - JUNE 28-1967
"O" CLAIMS - JUNE 28-1967
LOCATION SKETCH
"PAS" & "O" CLAIM GROUPS
126°-15 — 54°-45
W N
SCALE 1 IN. = 1 MILE
JANUARY, 1968

determine whether or not adequate reason existed for further exploration for copper zones.

LOCATION AND ACCESSIBILITY

The " Pas " Claims and the " O " Claims are in the Omineca Mining Division, seven and a half miles southwest of the Granisle Mine of the Granby Mining Company on Babine Lake.

The claims can be accessed directly to the Granisle Mine townsite over an all-weather dirt road. Thence a day's back-pack is necessary to reach the claims or more simply by use of helicopter from either the Granisle townsite or Topley Landing.

A location sketch follows this page.

STATUS OF THE PROPERTY

There are 40 claims held by right of location in each of the " Pas " Group and the " O " Group and duly recorded at the District Recording Office in Smithers by:

Rip Van Mining Ltd.(NPL)
020 North Canadian Oil Building
Calgary, Alberta.

GENERAL GEOLOGY

The west side of Babine Lake generally embraces volcanic rocks and sediments of Mesozoic Age. They represent the Jurassic period closely akin to the Hazelton Group, however, they are not specifically classified with this group.

The rocks in stratographic sequence from west to east in the general claim area represent volcanic breccias and tuffs passing into sedimentary quartzites and limestones on the east side and thence into intrusive rocks which maybe pre Mesozoic or Cenozoic - the relationship is unknown. The limestones form a very prominent ridge rising in sections several hundreds of feet above the plateau. The volcanics and sediments strike northerly and are inclined at low angle dips to the east.

A series of east - west faults and north - south shear zones cross the district.

SURVEY PROCEDURES

1. Location of Sample Points

The claim location lines which were run by compass and chain were used as reference lines in each case and

sample location lines were tied into the location lines and the claim corners. Line spacing was established at either 750 foot or 1500 foot centres. Line work was impeded by extensive deadfall which necessitated additional line clearing.

Soil samples were chained at 200 foot intervals and marker flags were set designating the line number and sample number. On fill-in lines run for greater detail, samples were taken at 100 foot centres.

2. Method of Sampling and Assaying

The surface humus and organic material was removed by a shovel from each sample point until the lower clay was exposed. Approximately 3 ounces of material was taken from a 12 inch penetration of the clay horizon, placed in paper bags and tagged on the bag as to site location.

Two hundred and sixty samples were taken on the Pas Claims and two hundred and ninety-four samples were obtained on the " O " Claims.

The samples were forwarded to the Technical Services Laboratories in Vancouver for analysis. All samples were dried and screened and treated by hot HNO_3

acid extraction followed by determination for copper by atomic adsorption. Initially molybdenum determinations were undertaken and were subsequently stopped.

Values were plotted on the accompanying plan.

SURVEY RESULTS

The values obtained on the Pas Claims did not generally offer encouragement. The background count is 15 to 30 p.p.m. and only in a single assay - 495 p.p.m. - did the values appear to indicate significant metal content.

The results on the " O " Claims were more encouraging in one area - Claims O-3, O-4, O-5, O-6 - wherein assays rise substantially - 121 p.p.m., 145 p.p.m., 2000 p.p.m., 500 p.p.m., 320 p.p.m., 150 p.p.m., 170 p.p.m. - above a general background count of 18 to 30 p.p.m. This area of 1000 feet by 700 feet is generally north of a small lake which fact is not considered significant since overburden is shallow in this section and the slopes are rising from the lake to the north.

CONCLUSIONS AND RECOMMENDATIONS

Because the results of the soil sampling programme generally yielded insignificant anomalies both on the " Pas " Claims and the " O " Claims and on the latter claim group significant assays were recorded in one limited section, it was recommended to test the areas by photo-geological interpretation to attempt to analyze the original anomalies more closely for structural characteristics prior to further ground work being undertaken.

Vancouver, B. C.
January 19, 1968

S. J. Hunter, P. Eng.
Consulting Mining Engineer

STATEMENT OF EXPENSES

" Pas " Claims - 1967 Geochemical Survey

Geochemical surveying was supervised by S. J. Hunter, P. Eng. and was conducted as shown below:

Wages:

Personnel	Rate	Period	Amount
C. Drysdale	$800/mo.	Aug-Sept/67	$600.00
W. Otto	$600/mo.	Aug-Sept/67	$300.00
H. Kanert	$600/mo.	Aug/67	$100.00
J. Wilkins	$600/mo.	Sept/67	$100.00
S. Nelson	$600/mo.	Aug/67	$100.00
A. Renaud	$600/mo.	Sept/67	$ 90.00
			$1290.00
Vehicle			80.00
Helicopter			756.00
Assays - Technical Service Lab			350.00
Supplies			230.00
Total			$2706.00

STATEMENT OF EXPENSES

" O " Claims - 1967 Geochemical Survey

Geochemical sampling was supervised by S. J. Hunter, P. Eng. and was conducted as shown below:

Wages:

Personnel	Rate	Period	Amount
C. Drysdale	$800/mo.	July-Aug/67	$600.00
W. Otto	$600/mo.	July-Aug/67	$300.00
H. Kanert	$600/mo.	July/67	$100.00
J. Wilkins	$600/mo.	Aug/67	$100.00
S. Nelson	$600/mo.	July/67	$100.00
A. Renaud	$600/mo.	Aug/67	90.00
			$1290.00
Expenses Vehicle			80.00
Helicopter			500.00
Assays - Technical Service Lab			400.00
Supplies			230.00
Total			$2500.00

CERTIFICATION

I, Stanley John Hunter, of Vancouver, British Columbia do hereby certify that:

1. I am a Consulting Mining Engineer with residence at 6476 Churchill Street, Vancouver, B. C.
2. I am a Registered Professional Engineer in the Provinces of British Columbia and Ontario.
3. I am a graduate of the University of British Columbia and have practised my profession for 19 years.
4. The information contained in this report was obtained under the author's supervision at the properties during the months of July, August and September, 1967.

S. J. Hunter

Vancouver, B. C.
January 19, 1968

S. J. Hunter, P. Eng.
Consulting Mining Engineer

PAS 16 PAS 14 PAS 12 PAS 10 PAS 8 PAS 6 PAS 4 PAS 2

LOCATION LINE

PAS 15 PAS 13 PAS 11 PAS 9 PAS 7 PAS 5 PAS 3 PAS 1

LIMESTONE

PAS 17 PAS 19 PAS 21 PAS 23 PAS 25 PAS 27 PAS 29 PAS 31 PAS 37

LOCATION LINE

PAS 18 PAS 20 PAS 22 PAS 24 PAS 26 PAS 28 PAS 30 PAS 32 PAS 38 PAS 39

BRECCIA

RIDGE

PAS 33 PAS 34 PAS 40

PAS 35 PAS 36

"PAS" CLAIMS

O-1 O-3 O-5 O-7 O-9 O-11 O-13 O-15 O-17 O-19

LOCATION LINE

LIMESTONE

O-2 O-4 O-6 O-8 O-10 O-12 O-14 O-16 O-18 O-20

BRECCIA

TUFFS

BRECCIA

O-21 O-23 O-25 O-27 O-29 O-31 O-33 O-35 O-37 O-39

LOCATION LINE

O-22 O-24 O-26 O-28 O-30 O-32 O-34 O-36 O-38 O-40

"O" CLAIMS

FULTON LAKE

TRUE N

LEGEND

30 ASSAY VALUE PPM-CU

GEO CHEM ANOMALY (+100 PPM)

AERIAL GEOPHYSICAL ANOMALY

RIP VAN MINING LTD. (NPL)
"O" AND "PAS" CLAIMS.
BABINE LAKE AREA - OMINECA DISTRICT
GEO-CHEM SURVEY
SCALE 1"=1000' DATE JULY-AUG-SEPT 1967
BY S.J. HUNTER, P.ENG.
S.J. Hunter

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