

REPORT
GEOLOGICAL INVESTIGATION & RECONNAISSANCE
OF
THE ROSE CREEK MINERAL CLAIMS
OWNED BY
PELLY RIVER MINES LTD.

TABLE OF CONTENTS

1. Covering Letter - L. G. White, P. Eng.
2. Geological Report - H. Powell, M.E.
3. Expense Summary.
4. Appendix.
 - (a) Geological Map of Claims.

Vancouver, B.C.,
Nov. 23, 1954.

R VANCOUVER
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with 805'
mailed from Vancouver. 25/11/54

25/11/54

CONFIDENTIAL



Mining Recorder,
Department of Northern Affairs & Natural Resources,
WHITEHORSE, Y.T.

Dear Sir:

We submit hereunder our report with accompanying map, covering a complete geological reconnaissance conducted for Pelly River Mines Ltd., owners of a group of fifty-one mineral claims situated on Rose Creek, Pelly River Area, Y.T.

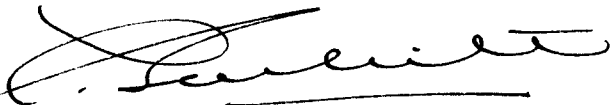
A party of six men consisting of a qualified mining engineer, two senior geological students, two prospectors and an Indian packer and horse wrangler, was maintained in a camp on Rose Creek for a period of forty-six days. Claim location lines were surveyed, using a triangulation system with transit and stadia. All rock outcrops were examined in hopes of locating mineral in place worthy of further investigation.

The extensive areas of moss-covered, low country separating the few rock outcrops made any correlation of structural features an impossibility. Minor evidence was studied, which suggested that the Rose Creek valley was a fault trench.

Geochemical, in conjunction with geophysical methods of prospecting, has been recommended for further investigation of the property.

Our affidavits in application for Certificates of Work to be granted under Section 54(2B) of the Yukon Quartz Mining Act, together with Grouping Notices, were filed in your office on September 22nd, 1954. The expense statement substantiating the amounts shown on the affidavits has been included as a section of this report.

Yours very truly,



L. G. White, P. Eng.,
Agent for:
PELLY RIVER MINES LTD.

Vancouver, B.C.,
November 23/54.
LGH/hs.
encl.

CONFIDENTIAL

A GEOLOGICAL REPORT
ON
THE ROSE CREEK CLAIMS
OF
THE PELLY RIVER MINES LTD.

PREFACE:

This report is to be classified as a geological investigation, as per Section 54-2B of the Yukon Quartz Mining Act.

A party of five men accomplished the work between August 3rd and September 17th, 1954.

The crew and equipment were flown from Blind Creek on the Pelly River to Dickson Lake, where a temporary camp and supply base was established. From this point a packhorse trail was scouted and blazed to a campsite on the RON No. 2 mineral claim, a distance of approximately six and one-half miles.

Supplies were flown from Whitehorse, landed at Dickson and transferred by packhorse to the camp.

As a basis for the geological work, the claims were surveyed using transit, triangulation and stadia, also in part by compass and chain, moreover all location posts were duly tagged.

The geology was mapped by cross-cruising to locate outcrops and by pacing to claim boundaries.

With the exception of a few days in the early part of August, good weather prevailed, greatly facilitating the work.

LOCATION:

The property is situated at 133° 19' West longitude, and 62° 18' North latitude. Location is approximately eight miles due west of Mount Nye; elevation 6763 feet on the Tay River, Sheet 105K N.T.S.

The claims lie astride the upper reaches of the Rose Creek valley. Rose Creek joins Anvil Creek to form a northern confluence of the Pelly River.

They may be reached approximately 120 flying miles from Whitehorse to Dickson Lake or by road, under construction, from Ross River via Prospectors Airways camp on Vangorda Creek, a distance of thirty-five miles.

PROPERTY: The property consists of fifty-one mineral claims as follows:

| | | | |
|------------|-------------------|----------|---------------------------|
| MILL Nos. | 2 to 8 inclusive, | Tag Nos. | 67092 to 67099 inclusive. |
| ANDY Nos. | 5 to 8 | " " " | 67068 to 67075 " |
| BARON Nos. | 1 to 8 | " " " | 67084 to 67091 " |
| RON Nos. | 1 to 8 | " " " | 67116 to 67123 " |
| IRISH Nos. | 1 to 8 | " " " | 67076 to 67083 " |
| VIN Nos. | 1 to 8 | " " " | 67060 to 67067 " |
| HEW Nos. | 1 to 8 | " " " | 67100 to 67107 " |

The claims were recorded by Prospectors Airways Limited at Whitehorse, Y.T., September 18th, 1953 and subsequently sold and transferred to Pelly River Mines Limited, Toronto, Ontario.

These claims are well staked and are bounded on the southeast by the RON and ANDY Groups (Prospectors Airways); on the southwest by the CUB group (Karl Springer), GESSNA and MAJOR Groups (G. Dickson); and on the northwest by the ROSE and RUST groups.

The location lines run approximately N. 44° W. and are on each side paralleling Rose Creek.

TOPOGRAPHY: The claims lie between 3500 feet and 4500 feet in elevation and are almost entirely covered by recent alluvium, supporting six-foot Arctic birch and willow (locally buck brush) and small to medium spruce.

Rose Creek lies in a "U" shaped valley roughly paralleling the Pelly River and drops about 500 feet in four miles. The mountains to the north rise gently and those to the south rise rapidly from the creek valley.

The greatest relief is afforded by Canyon and South Creeks, transversing the trend of the formation.

GEOLOGY: Practically the whole area covered by the claims is underlain by rocks of the Yukon Series, consisting chiefly of schists with minor amounts of interbedded limestone and quartzite.

The general trend of the formation is to the northwest -- almost horizontal -- with a southwesterly dip varying from 15° to 30°. To the north of the area at an elevation of 5000 feet granodiorite is exposed, gently sloping to the southwest, and is part of the massive batholith in the area.

It is assumed from the physiography of the area that Rose Creek flows northwesterly in a fault trench. The impression is gained by the attitudes of the rocks along Canyon Creek and also by the non-conformity of the rocks where exposed on the north and south banks of Rose Creek itself.

MINERALIZATION: No evidence of mineralization was located during the course of the surveying and prospecting work.

DESCRIPTION OF ROCK TYPES:

(1) SCHISTS:

The schists vary greatly in texture and appearance from fine chloritic and sericitic schists to coarse, banded micaceous and graphitic types, also those having gneissic appearance.

(2) LIMESTONE:

The limestone, where noted, is altered and of the recrystalline variety.

(3) QUARTZITES:

The quartzites are generally fine grained, varying from sub-white to slightly brownish in colour. They are interbedded and show little or no great alteration along the contacts.

(4) GRANODIORITE:

The granodiorite is medium grained, grey in colour and composed of quartz feldspar, mica and hornblende.

The small dykes appearing on the VIN No. 3 and MILL No. 7 mineral claims are fine grained, grey to greenish in colour and tentatively classified as andesitic.

Although not separately mapped and believed to belong to the same series as the schists on the ANDY No. 8 mineral claim, there occurs an outcrop of fine grained granitic rock; the crystals therein are elongated and the contacts with the schists show little alteration.

A most vivid picture of the bedding of the area is shown in Canyon Creek, a small stream crosscutting the formation through the VIN Nos. 3 and 4 mineral claims. Here a series of rocks is exposed showing the granodiorite overlain by micaceous and graphitic schists interbedded with quartzite and cut by narrow andesite dykes.

(4)

CONCLUSION: Since the greater part of the four-square mile area is covered by overburden and from the lack of mineralization noted, any further work contemplated on these claims should embrace geophysical and geochemical methods.

Respectfully submitted,

H. M. Powell

H. Powell,
Mining Engineer.

Vancouver, B.C.
Nov. 19/54.
HP/hc.

EXPENSE SUMMARY

TO:- Transporting and maintaining a party of six men, which conducted a geological reconnaissance and mapping program over fifty-one (51) mineral claims in the Pelly River Area, Y.T.

Crew: 6 men
Time: 46 days
No. of Claims: 51

LABOUR COSTS - Per Payroll Summaries:

| | |
|------------------------------------|---------------|
| 1 Engineer in Charge @ \$18.00/day | \$ 828.00 |
| 2 Student Assistants @ \$10.00/day | 920.00 |
| 2 Prospectors @ \$12.00/day | 552.00 |
| 1 Horse Wrangler @ \$10.00/day | <u>460.00</u> |

Total Payroll Costs: \$ 2,760.00

Workmen's Compensation (Insurance) @ 5% 138.00

BOARD COSTS - Northern Commercial Invoices:

Food Supplies averaged \$3.00/day/man 828.00
Total supplies cost (\$18.00 x 46)

TRANSPORTATION - Whitehorse Flying Services:

5 Plane Charters - 15 hours @ \$80.00 1,200.00

HORSE RENTALS - T. Connelly, Ross River, Y.T.

Packing Supplies and Equipment -
2 horses @ \$6.00/day - 46 days 276.00

PREPARATION & PRINTING REPORT - Engineering Service 100.00

TOTAL EXPENSE: \$ 5,302.00

EXPENSE/CLAIM: \$ 103.96

CORRECT:


L. G. White.

