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REPORT
GEOLOGICAL INVESTIGATION & RECONNAISSANCE
OF
THE "RENO" AND "STAR" GROUPS OF MINERAL CLAIMS
FOR
ALATOR CORPORATION LTD., TORONTO, ONTARIO.

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VANCOUVER, B.C.,
December 8, 1954.

532 Burrard Street,
VANCOUVER, B.C.,
December 8, 1954.

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


Dear Sir:

The report and maps covering a geological reconnaissance conducted over the "RENO" and "STAR" groups of mineral claims in the Pelly River area, Y.T., are herewith submitted for your consideration.

The survey was completed from a base camp situated on Jackknife Lake. Servicing was done by air transportation from Whitehorse and packhorses in the field. The crew consisted of a Mining Engineer with employed help of two prospectors and two students. Sixteen full working days were spent on the groups.

Our application for grouping and affidavits for Certificates of Work were submitted to your office during September, 1954.

Yours very truly,



L. G. White, P.Eng.,
Agent for:
AIATOR CORPORATION LIMITED,
66 King Street, West,
TORONTO, Ontario.

LGW/hc.
encl.

GEOLOGICAL REPORT

ON

THE RENO and STAR GROUPS

PELLY RIVER DISTRICT - YUKON TERRITORY

CONFIDENTIAL

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

The work was accomplished by a party of five men during the period of June 4th to 24th, of this year.

The crew and equipment were moved from a temporary camp on Pelly River to Jackknife Lake, where a base camp was established. To complete the work it was found advantageous to cut a packhorse trail to the top of Sheep Mountain and establish a fly camp.

All supplies for the operation were flown from Whitehorse to Jackknife Lake and transferred at this point to packhorses, thence taken up to the mountain camp.

As a preliminary to the geological work, the location lines were cut out and the claims surveyed by compass and tape.

LOCATION: The RENO and STAR Groups of Mineral Claims are in the Pelly River District, Yukon Territory and are situated at 62° 14' N. Lat. and 133° 11' W. Long.

The claims cover the westerly part of the north slope of Sheep Mountain and lie between Jackknife Lake to the north and the top of the mountain.

The property may be reached from Whitehorse, a distance of 140 flying miles to Jackknife Lake, or by road (under construction) from Ross River to Blind Creek, a distance of thirty-five miles.

PROPERTY: The property consists of two groups of eight mineral claims each, as follows:

RENO Nos. 1 to 8 inclusive - Tag Nos. 66971 to 66978

STAR Nos. 1 to 8 inclusive - Tag Nos. 66979 to 66986

These claims were recorded in Whitehorse, Y.T. on September 25th, 1953 by Alator Corporation Limited, Toronto, Ontario, and are held by them.

TOPOGRAPHY: The claims cover the northern slope of Sheep Mountain between Elevations 3500 and 4500 feet. The terrain is slightly undulating steep slope rising to the south or top of the mountain.

With the exception of the upper three claims, RENO Nos. 7 and 8 and STAR No. 7 mineral claims, the ground is entirely covered by overburden supporting tall willow, Arctic birch and spruce.

From the centre of the above mentioned claims to the southern boundary of the group, the slope is precipitous and cut by deep ravines, partially filled with talus.

GEOLOGY: On the upper claims of the groups -- those to the south -- the rocks as exposed are chiefly greenstone, argillite and chert, probably Paleozoic in age, G.S.C. Memoir #200.

No attempt was made to delineate these rocks, as they seem to be interbedded at random.

On the escarpment facing south, numerous quartz stringers were found cutting the above formation. They usually had a northerly strike with a vertical dip and were all of the "bull-quartz" variety.

One intense shear was noted on the RENO No. 8 mineral claim. This was some 40 feet in width, can be traced for several hundred feet and closely follows the RENO Nos. 7-8 location line. No alteration products were noted.

An outcrop of diorite was noted on the northeast corner of the STAR No. 1 mineral claim; also some limestone located just outside the northern boundary of the STAR No. 2 mineral claim.

No contact was found exposed between the argillite-chert and the diorite or limestone formations.

**ROCK
TYPES:**

The greenstone is a fine grained rock, green to grey in colour, and although tentatively classed as argillite, in places seemed somewhat andesitic.

The chert from red to green in colour is a dense, fine grained flinty rock, in places extremely hard.

The diorite noted was medium grained, somewhat brownish in colour from oxidation and in part showed considerable movement, being slightly gneissic. It contained feldspar, hornblende, a minor amount of quartz, and a trace of disseminated pyrite.

The limestone was white and of granular texture, at one point. This rock was cut by quartz veinlets carrying a trace of chalcopyrite.

MINERAL-
IZATION:

During prospecting and surveying, no mineralization deemed sufficient to warrant sampling was seen on these claims.

CONCLUSION: The greater part of these claims is covered by overburden, especially the section that might be geologically interesting; i.e. the contact between the diorite and the greenstone-chert formations.

In view of the above and since little or no mineralization was found, any further work contemplated on these two groups of claims should be confined to geophysical methods.

Respectfully submitted,



H. M. POWELL,
Mining Engineer.

HMP/hc.
Dec. 8/54.

EXPENSE SUMMARY

TO:

Supplying and maintaining a crew of five men at Jackknife Lake, Pelly River Area, Y.T., 140 miles northeast of Whitehorse. Purpose of the job was to conduct a complete geological reconnaissance and mapping program of the RENO Mineral Claims, Nos. 1 to 8 inclusive:

Crew: 5 men
Time: 8 days
No. of Claims: 8

LABOUR COSTS - Per Payroll Summaries:

1 Mining Engineer - Party Chief, @ \$18.00/day	\$ 144.00
2 Prospectors, @ \$12.00/day	192.00
2 Student Surveyors, @ \$10.00/day	<u>160.00</u>

Total Labour Costs: \$ 496.00

Workmen's Compensation Insurance @ 5% - 24.80

BOARD COSTS - Per Northern Commercial Invoices:

Food Supplies - averaged \$3.00/day/man - 120.00

TRANSPORTATION - Whitehorse Flying Services:

1 Plane Charter - 3 hours @ \$80.00/hour - 240.00

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


Packing Supplies - 2 horses @ \$6.00 - 48.00

PREPARATION & PRINTING REPORT - Engineering Service: 50.00

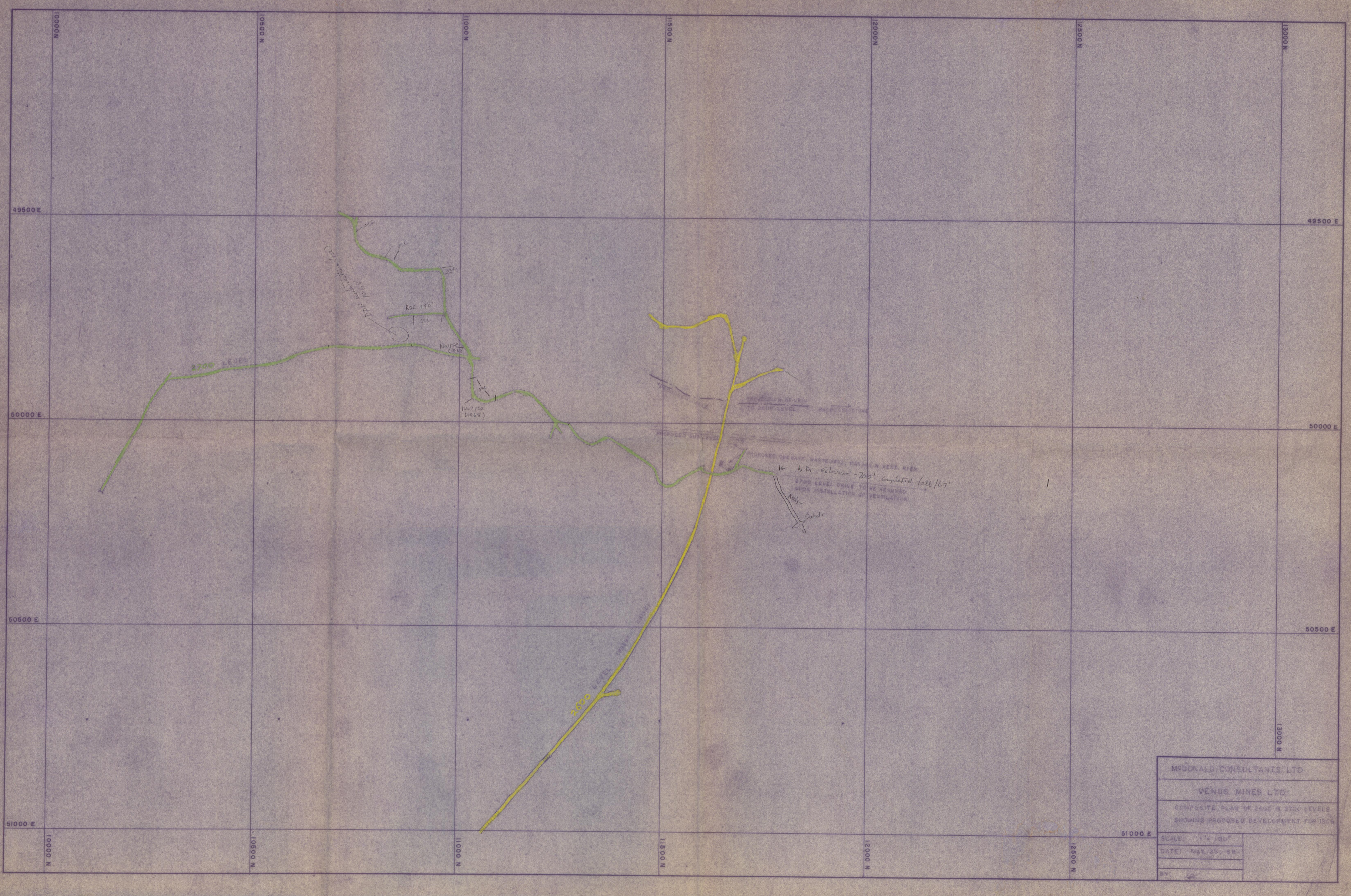
TOTAL EXPENSE: \$ 978.80

EXPENSE/CLAIM: \$ 122.35

CORRECT:


L. G. White.

Dec. 8/54.



MCDONALD CONSULTANTS LTD.	
VENUS MINES LTD.	
COMPOSITE PLAN OF 2600 & 2700 LEVELS SHOWING PROPOSED DEVELOPMENT FOR 1964	
SCALE:	1" = 100'
DATE:	MAY 25, 68
BY:	