



Telephone: 261-0688

Joe Sullivan, P. Eng.

Mine Exploration

2766 West 30th Ave.,

Vancouver 8, B.C.

GEOLOGICAL RECONNAISSANCE
 ON THE
 LIN GROUP OF MINERAL CLAIMS
 GLENLYON LAKE AREA
 MAP SHEET 105-L8
 (Lat. 62°25', Long. 134°08')
 YUKON TERRITORY

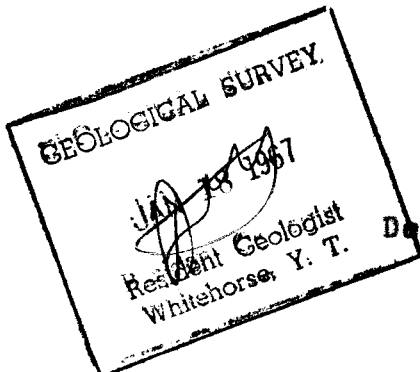
By

Joseph Sullivan, P. Eng.,

November 19 to November 29, 1966

Submitted to:

GOLDEN GATE EXPLORATIONS LTD.
 714 West Hastings St.
 Vancouver 1, B. C.



December 15, 1966.

This report has been examined by the Geological Evaluation Unit. Approved as to technical worth by:

[Signature]
 RESIDENT GEOLOGIST

Approved as to cost in the amount of: \$ 2616.00

[Signature]
 RESIDENT MINING ENGINEER

Accepted as representation work under Section 53(4) Yukon Quartz Mining Act.

[Signature]
 COMMISSIONER OF YUKON

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION.	1
GENERAL CONDITIONS.	2
(1) Location	2
(2) Surface Features	2
PROPERTY AND OWNERSHIP.	3
RECONNAISSANCE METHODS.	3
DISCUSSION OF RECONNAISSANCE.	4
GEOLOGICAL SUMMARY.	6
CONCLUSIONS AND RECOMMENDATIONS	6

APPENDIX:

SCHEDULE OF TIME AND REMUNERATIONS

SKETCHES:

SURFACE PLAN (at back)
LOCATION SKETCH. (after 2)

* * *

GEOLOGICAL RECONNAISSANCE
ON THE
LIN GROUP OF MINERAL CLAIMS
GLENLYON LAKE AREA
MAP SHEET 105-L8
(Lat. 62°25', Long. 134°08')
YUKON TERRITORY

INTRODUCTION:

On November 4, 1966 the writer was instructed by Mr. Thomas Lytton of Golden Gate Explorations Ltd., Vancouver, B. C., to conduct a reconnaissance survey on the Lin Group of mineral claims. The object of this survey was to establish, on the ground, a starting point for a ground magnetometer survey. This was to be the start of a surface exploration program subsequent to a recently conducted airborne magnetometer survey.

The personnel involved in this work are listed in the Appendix at the end of this report.

GENERAL CONDITIONS:

(1) Location: (Lat. 62°25', Long. 134°08')

The properties are situated in the Whitehorse Mining Division of the Yukon Territory, (claim map 105 L-8). The center of the claims is two and a half air miles due east of the northern tip of Glenlyon Lake, and sixty air miles northwest of the settlement of Ross River.

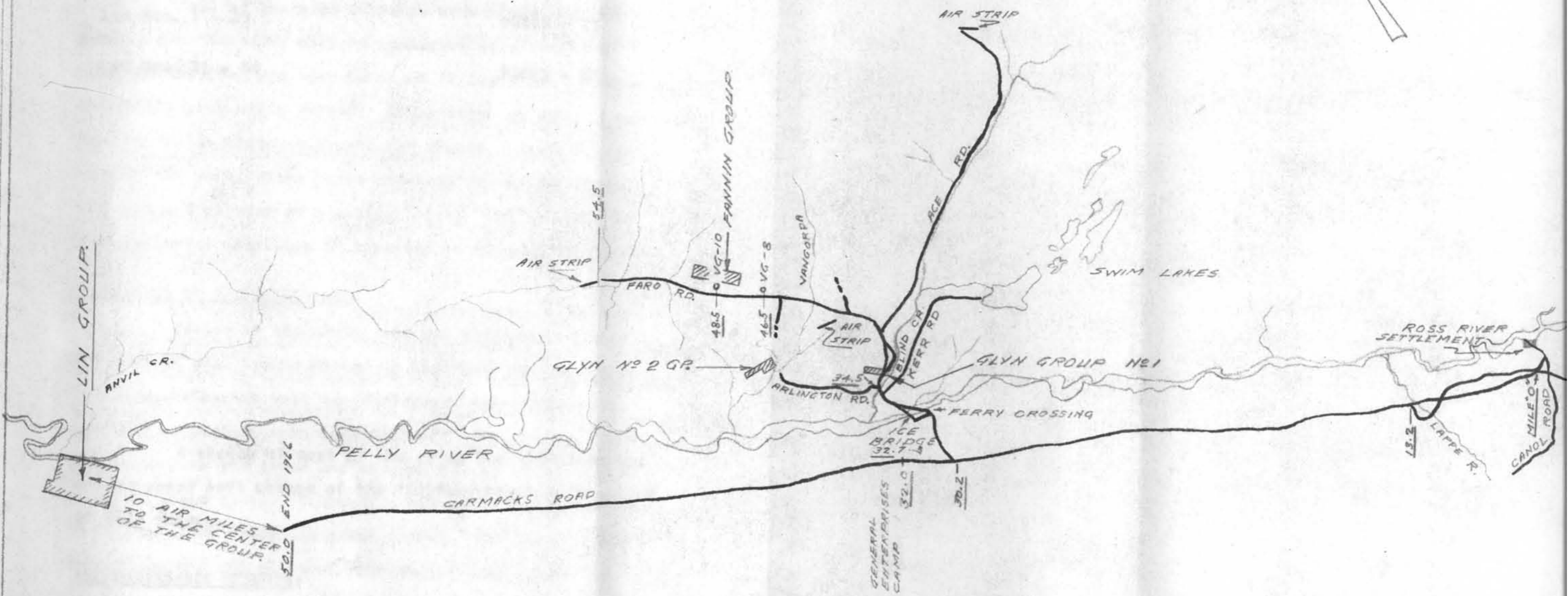
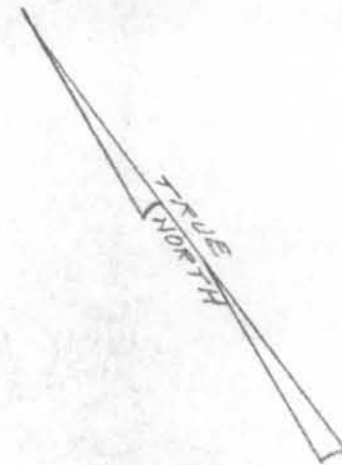
(2) Accessibility:

At the time this reconnaissance work was underway there were three possible access routes onto the group. First, by helicopter from Ross River settlement to the confluence of the Pelly River and Anvil Creek. Second, by fixed wing aircraft from Ross River or Whitehorse to Glenlyon Lake. Third, by four-wheel-drive vehicle from Ross river to the present end of the Carmacks Road (50 miles), hence, northwest across the hills for a fifteen mile trek by snowshoe or "ski-doo".

(3) Surface Features:

Scatterings of stunted coniferous trees cover the properties. The underbrush is thick on the lower levels at 2,500 feet A.S.L., but thin on the upper, rocky bluffs at 4,500 feet A.S.L. Although the ridge tops are rounded and present a sky-line of gentle slopes, the local topography can be rugged, and at times impassable.

BASE MAP BY ARCHER CATRO & ASSOCIATES.
 REFERENCE POINTS AND MILEAGES BY W.G. STEVENSON
 CROSS ROADS AT ROSS RIVER = MILE "0"



GOLDEN GATE EXPLORATIONS LTD.		
LIN GROUP	PELLY RIVER VALLEY	LOCATION SKETCH
1" = 4 MI. (APP)	NOV 10, 1966.	J.S.

PROPERTY AND OWNERSHIP:

Title for this 55 claim group has been transferred to Golden Gate Explorations Ltd., 714 West Hastings Street, Vancouver 1, B. C. They are namely:

<u>Claim Name</u>	<u>Grant Nos.</u>
Lin Nos. 1 - 19	95805 - 23
Lin Nos. 21 - 56	95825 - 60

A sketch of most of the group has been inserted in the upper left corner of the "Surface Plan" at the back of this report.

RECONNAISSANCE METHODS:

Primarily, the desired area was located with respect to its own claim posts and/or posts for adjoining properties. Then a chained line was run from the post, or

posts, into the area, along a compass bearing. Pace and compass traverses were then originated from this measured "base" and looped back to some part of the line so that they could be adjusted. Existing claim lines and lines from older surveys were utilized whenever possible.

Most of the rock outcrops were hidden by the early snow. However, obvious exposures were recorded. Magnetometer readings were taken on at least one traverse across the area being worked. In addition an aneroid was used to follow contours around the ridges. About 80 percent of the work, after posts had been found, was tied together and plotted on a surface plan. The accuracy of the horizontal distances is expected to be within ± 25 feet.

DISCUSSION OF RECONNAISSANCE

Access to the claim area was difficult, due to a series of cold fronts moving up the Pelly River at the time reconnaissance work was underway. Helicopters were grounded at temperatures less than -20° Fahrenheit. The gas engines on the truck and ski-doo had to be kept operating 24 hours a day. Eventually the work, started on the north, or river side, was discontinued. The project did not get beyond the stage of finding the claim lines and posts.

A second attempt was made from the south side of the claims, but the party was unable to tie-in to the

work started on the north. The accompanying surface plan covers only the traversing done from the south.

In the preceding airborne magnetometer survey⁽¹⁾ one of the "trends" considered to be of prime importance was trend No. 6. This anomalous condition lies in the vicinity of the Lin 41 mineral claim as shown on claim sheet 105 L-8. Trend No. 6 was the object of the search from the south.

A contact between dark basaltic volcanic beds and a schistose sedimentary-volcanic formation was located 1700 feet in elevation above Glenlyon Lake. Because the actual contact was not seen it has been plotted on the plan as "inferred".

A small amount of disseminated pyrite (py) was found in the basalt at 1600 feet above the lake. Four northwest trending steep walled gulleys, also in the basalt, may be the surface expression of a major fault zone. However, neither the sulphide or the supposed faulting showed any appreciable effect on a dip needle.

At the basalts contact with the schistose formation there is a pronounced rise in the magnetics. This

(1) Airborne Magnetometer Survey
Lin Group of Mineral Claims
Husky Industries and Services Ltd.
September 15, 1966

high zone is apparent for at least 200 feet.

The traverses originated at the four claim posts at elevation 4150 feet because the preliminary scouting showed this area to be the most active on the dip needles.

GEOLOGICAL SUMMARY: (G.S.C. Map 25-1960)

The basaltic outcrops encountered on the traverses were undoubtedly a part of the basaltic flows designated as (27a) by the mapping of the Geological Survey of Canada. The schistose units described by the writer as andesitic and sedimentary are probably a part of the same unit (27a). These rock types are those exposed on the south side of the claim group and differ considerably to those seen on the north. The northerly formations, probably (5) on the G.S.C. map were entirely slate where encountered by the reconnaissance group.

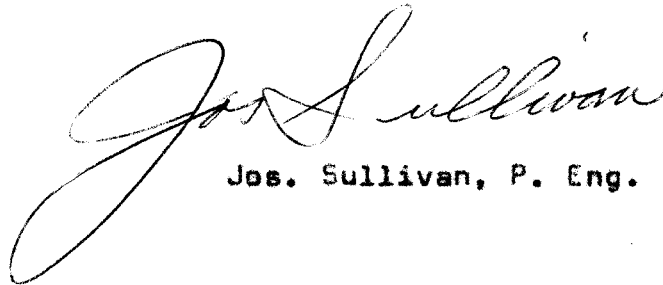
CONCLUSIONS AND RECOMMENDATIONS:

There is a sufficient concentration of the earth's magnetic field along the basalt contact to influence the magnetometer readings for an airborne survey. Thus, the basalt contact, and the rocks for 100 feet on either side, may host the source for one of the trends spotted by the airborne work. No attractive mineralization was found during the reconnaissance period either in place or in

float. Therefore the writer feels that the basalt contact should be thoroughly prospected before a ground magnetometer survey is planned.

Also, because the work to the north was not tied-in with that on the south, the writer recommends continuing the reconnaissance type of surveys across the ridge to the Pelly River before plans are made for a more detailed exploration phase.

Respectfully submitted,

A handwritten signature in cursive script that reads "Jos. Sullivan". The signature is written in dark ink and is positioned above the typed name.

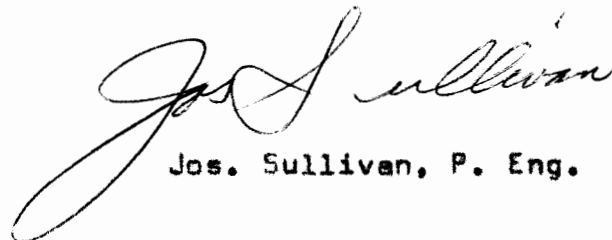
Jos. Sullivan, P. Eng.

APPENDIX

LIN GROUP

SCHEDULE OF TIME AND REMUNERATIONS

<u>Name and Address</u>	<u>Occupation</u>	<u>Period (1966)</u>	<u>Total days</u>	<u>Total Remuneration</u>
W. G. Stevenson 509 Stock Exchange Bldg. Vancouver 1, B. C.	P. Eng. Geology	Nov. 19 to Nov. 24 (Incl.)	6	\$750.00
J. Sullivan 2766 West 30th Avenue Vancouver 8, B. C.	P. Eng. Geology	Nov. 22 to Nov. 29 (Incl.)	8	1,000.00
J. Berkosha Port Moody Inn Port Moody, B. C.	Geophysics and Survey	Nov. 22 to Nov. 29 (Incl.)	8	600.00
Great Northern Air.		Nov. 20		31.00
Great Northern Air.		Nov. 22		185.00
J. Gatey Whitehorse, B. C.	Prospector	Nov. 22 & Nov. 23	2	50.00
				<hr/>
				TOTAL
				\$2,616.00
				<hr/>


Jos. Sullivan, P. Eng.

