

GEOPHYSICAL ASSESSMENT REPORT

GOLD CLAIMS

115-K-2

62°03'N

140°50'W

091370

SKAGWAY MOLY INC.

A. Mullin

October 1982

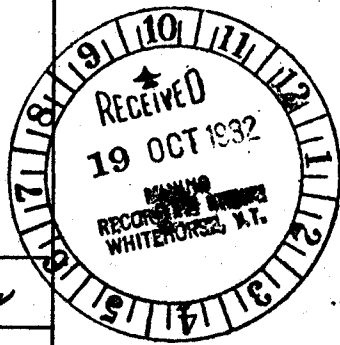
This report has been examined by
the Geological Survey of Canada
under Section 85 of the Quartz
Mining Act and is hereby
reproduced in full for the amount
of \$ 8,400 -

P. Watson

for **Reproduction and Exploration and
Geological Services for Commissioner
of Yukon Territory.**



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
YUKON QUARTZ MINING ACT
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



(This form required in duplicate with sketch showing location of work.)

I (Name)	ARNOLD MULLIN	Occupation	TECHNICIAN
(Postal Address)	13 REDWOOD ST W.H.S.E. Y.T. Y1A452		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

GOLD 1-4	YA 59065-68
GOLD 5-8	YA 59311-14
GOLD 9-14	YA 59069-74
GOLD 15-22	YA 59315-22
GOLD 23-24	YA 59644-45
GOLD 29-32	YA 59323-26

situated at EAST OF BEAVER CREEK Claim Sheet No. 45-K-2

in the WHITEHORSE Mining District, to the value of at least \$ 9000.00

dollars, since the APRIL 1 day of APRIL 15 19 82.

to represent the following mineral claims under the authority of Grouping Certificate No. _____

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GOLD 1-4	YA 59065-68
GOLD 5-8	YA 59311-14
GOLD 9-14	YA 59069-74
GOLD 15-22	YA 59315-22
GOLD 23-24	YA 59644-45
GOLD 29-32	YA 59323-26

RENEW FOR 3 YEARS.

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

GEOPHYSICAL REPORT ATTACHED.

WHITEHORSE, YUKON

Sworn before me at _____

this 19 day of OCT 19 1982 19 _____

M. Martin
Notary Public

Arnold Mullin
Applicant

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GEOPHYSICAL ASSESSMENT REPORT

on the

GOLD CLAIMS

INTRODUCTION

The claims referred to in this report are registered in the name of SKAGWAY MOLY INC. and comprise the following:

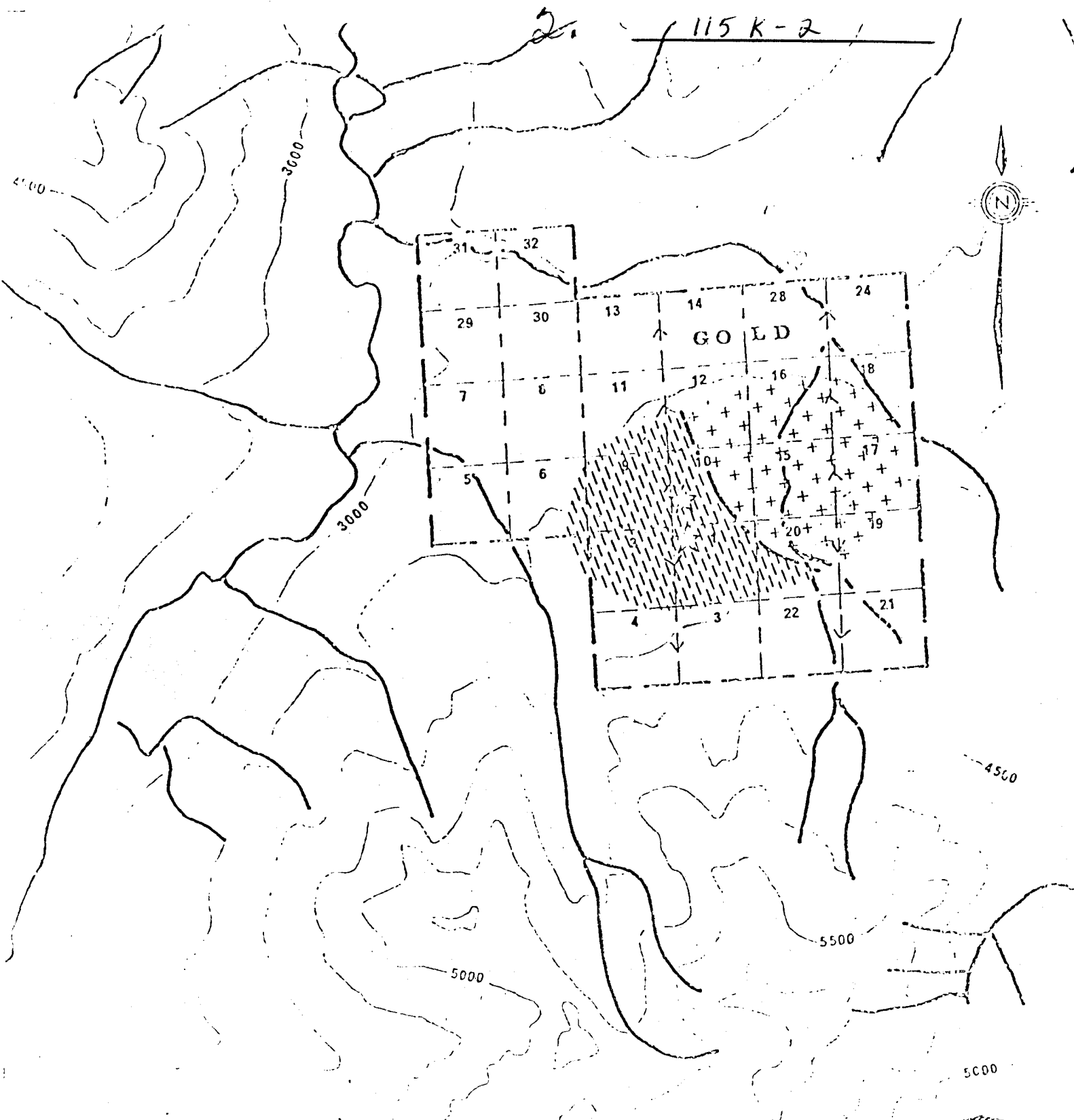
GOLD 1-4	YA 59065-68
GOLD 5-8	YA 59311-14
GOLD 9-14	YA 59069-74
GOLD 15-22	YA 59315-22
GOLD 23-24	YA 59644-45
GOLD 29-32	YA 59323-26

The property is located approximately 10 km west of the Alaska Highway at Molepost 1175. Access from this point is by tote trail.

The property was grid surveyed with Ronke EM-16 between April 1, 1982 and April 15, 1982 by Al Carlos assisted by Glen L. Harris.

A total of 15 days was spent on the property.

115 K-2



-  Granite Intrusive
-  Sediments
(Carboniferous to Cretaceous)
-  Copper Showings
(Trenched)

Fig. 1 Gold Group

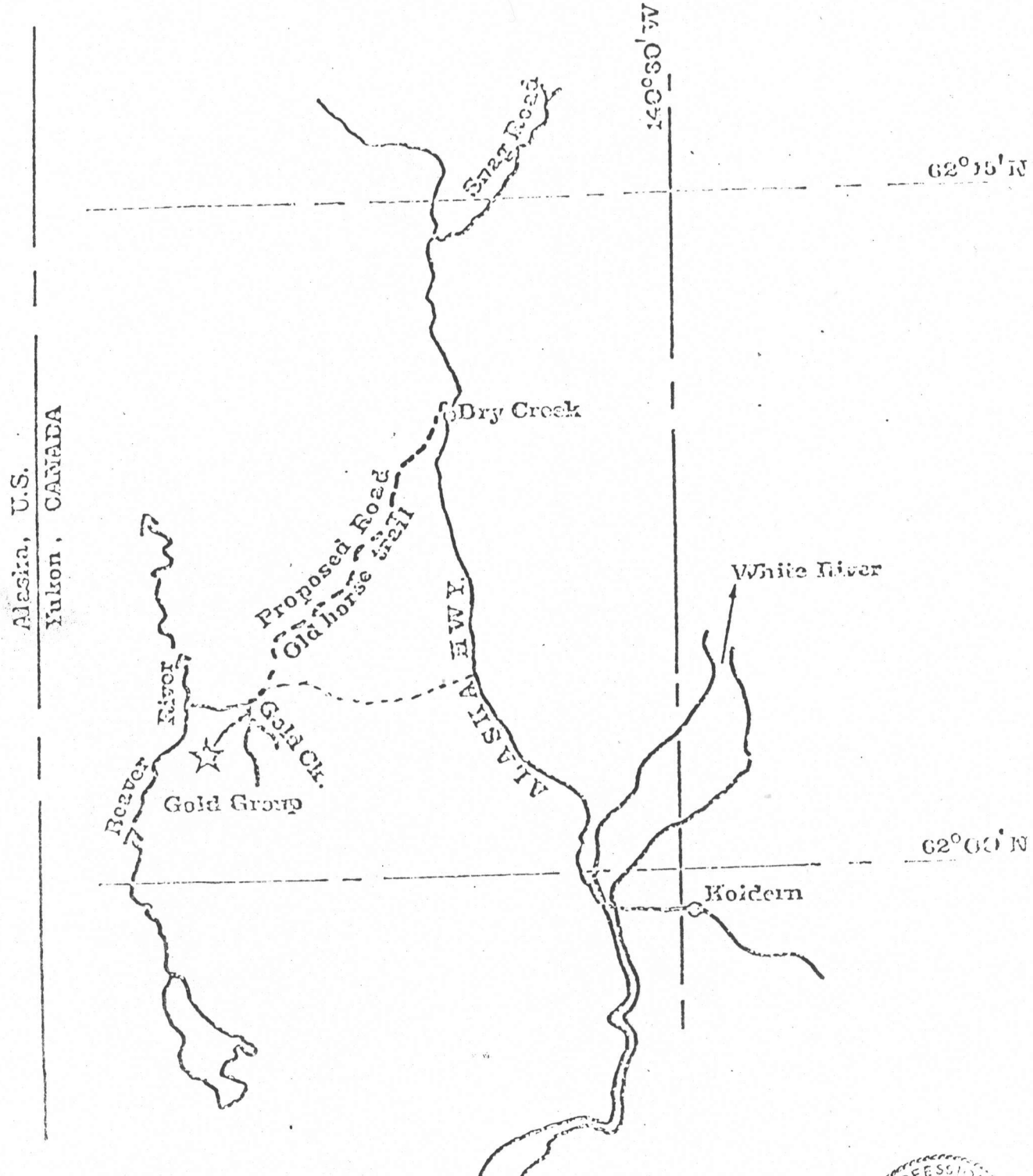
WHITEHORSE MINING DISTRICT
YUKON TERRITORY

Scale: 1/2 mile to 1 inch

April 20, 1981



Toru Kikuchi, Ph.D., P.Eng.



Alaska, U.S.
Yukon, CANADA

Fig. 2 LOCATION MAP
GOLD GROUP
WHITEHORSE MINING DISTRICT
YUKON TERRITORY
Scale: 1" = 4 Mile

April 20, 1981

Toru Kikuchi
Toru Kikuchi, Ph.D., P. Eng.



GEOPHYSICAL REPORT
RONKA EM-16
GOLD GROUP - RJ GROUP
WHITEHORSE M. D.
YUKON TERRITORY

FOR: SKAGWAY MOLY INC.

Vancouver, B.C.

May 21, 1982

Toru Kikuchi, Ph.D., P.Eng.
Consulting Geologist

091370

C O N T E N T S :
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V. CONCLUSION, OPINION AND RECOMMENDATION	4

Statement of Qualification

SKAGWAY MOLY INC.

GEOPHYSICAL REPORT

RONKA EM-16

GOLD GROUP - RJ GROUP

WHITEHORSE M.D.

YUKON TERRITORY

By Toru Kikuchi, Ph.D., P.Eng.

Dated: May 21, 1982

I. INTRODUCTION

In accordance with the recommendation by the author on the Preliminary Report on the Gold Group for Skagway Moly Inc. dated April 20, 1981, a geophysical EM-16 survey was carried out from April 3, 1982 to April 8, 1982 by Al Carlos and assisted by Glen Harris. The survey encompassed 20.5 miles of line with 4000' separations and reading taken every 100'.

II. SUMMARY

A program of grid picket station controls was established and then a geophysical survey using the RONKA EM-16 was carried out at 100' separations to detective a close control to the pattern of the results.

A RONKA EM-16 survey was carried out over the Gold Group and adjoining RJ Group recently staked on the periphery of the original Gold Group. A medium to strong electromagnetic conductance was detected from the north end of Gold 1 and 2 continuing into Gold 10 and 9 with a configuration northwest and northeast.

The results proved successful and well within my cost recommendation program. I will recommend that a magnetometer survey be carried out as a corelative to this survey as soon as conditions allow.

III. GEOLOGY, MINERALIZATION AND ORE DEPOSIT

The Preliminary Geological Report written by the same author is recommended to refer this clause.

The overburden is not very thick, except some parts near the creeks. The property area is underlain by Sediments (shale, sandstone, conglomerate, limestone of Carboniferous to Cretaceous) and Volcanics (andesite, dacite, etc. of Cretaceous and earlier). The later Granitic Intrusives have intruded (Cretaceous and/or later), into the Sediments. The boundary of both rocks is usually covered by overburden except some naturally out-cropped granodiorite porphyry with some mineralization.

In February and May of 1969, according to the original manual trenches and floats indication, three cat trenches in Gold-1 named Discovery Zone and two in Gold-2 named Magnetite Zone were made by option-holding party which consisted of Mr. Harry Fromme, Mr. Harry Johannes, Mr. Robert Warner, Mr. Archie Bruce, and Mr. Ronald Granger, but they are not deep enough to see the full geology due to the inability of the bulldozer to further deepen the cut into the frozen ground.

In mid-May of 1969 some magnetometer survey was carried out and some detailed E-M (SE-300) was done on the known showings by Ron Granger, one of the option-holding group. The magnetometer anomalies indicate the possibilities of many more areas of interest and highly enhance the prospects of further discoveries.

The writer has checked all trenches and found that there were contact and hydrothermal mineralization in the host rock, mainly limestone, black (graphite) shale, green volcanic (?) shale, black-gray chert (silicified ?) with a large amount of skarn minerals, associated with magnetite, azurite, etc.

Copper mineralization are best found in limy epidote skarn, in chloritic rocks with some quartz and in a serpentinized rock wich apparently had an andesitic composition originally. Mr. R. Granger reported a character assay of higher grade ore as Au - tr., Ag - 0.48 oz/t, Pb - 0.02% and Cu - 10.3%. The writer took a 40' long chip sample from the SW wall of the western trench of Discovery Zone with an assay results 0.60% Cu. Mr. R. Granger reported on his samples from the same place that a six foot sample of gossan showing a little cholcopyrite assayed 0.95% Cu, a ten foot sample of gossan showing a little chalcopyrite assayed 0.90% Cu and a thirty-four foot section estimated to carry only about 0.1% Cu actuary assayed 0.8% Cu.

IV. GEOPHYSICAL SURVEY

The RONKA EM-16 survey was carried out using station NLK 24.8 ~~km~~^{Hz} at Sangor, Washington, U.S.A. with all readings taken eastly. In the northwest, northeast and southeast parts of the grid the conductivity was extremely good. On Gold-16, 18, 15, 10, 15 and 17 the conductivity is sparse and dispersed because of the Granitic intrusive. The Discovery Zone at the intersection of Claims Gold-9, 10, 2 and 1 is shown by a conductor about 600' in length and the Magnetic Zone on Gold-10 is also reflected by a conductor 600' in length. On Claims Gold-10, 9, 30 and 14 are conductors traversing 3 lines showing structure at least 1,000' in length. The conductivity shows a pattern but much of it is indicative of an echelon structure. The red cross-over in the attached map is assumed to be located at the point of rapid decreasing rates of charge, especially in the NW, NE and SW quadrants. It takes place at the change point from positive to negative number. The zero points have also been plotted between positive and negative but indicates weather conductivity in some case.

V. CONCLUSION, OPINION AND RECOMMENDATION

The geophysical tests undertaken at the property of the Gold Claims have been of considerable value both as an aid to exploration and for obtaining geological information. The RONKA EM-16 survey is considered to supply an excellent guide for placement of diamond drillhole locations.

The most important feature revealed by this survey outlined the projection and continuity of the mineralized zone on Gold-1 and 10 and various patterns that can now be correlated to the surface geological data.

The concentration of low conductivity is in the area of the intrusive. Outside the intrusive the readings are abruptly different. The area of contact zone should be further investigation.

Before any drilling is carried out it should be important that a magnetometer survey be done so as to obtain a correlation.

In view of the results obtained from this survey, the Gold property is considered to be of favourable geologic and mineralized environment for a potential commercial deposit with further testing and development work according to the previous report by the author dated April 20, 1981.

The RONKA EM-16 survey has established a trend of electrical conductors and has confirmed that known mineralization on the property is outlined. I therefore recommended further work by way of a geochemical survey, magnetometer survey and cat trenching with systematic sampling. A geological map should be produced in conjunction with the work program.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'Toru Kikuchi', with a long horizontal flourish extending to the right.

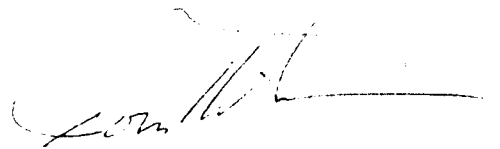
Toru Kikuchi, Ph.D., P.Eng.
Consulting Geologist

Vancouver, B.C.
May 21, 1982

STATEMENT OF QUALIFICATION

I, Toru Kikuchi of the City of Vancouver, B.C. hereby certify that: -

1. I am a graduate of the Hokkaido University, Japan (B.Sc., Geology and Mineralogy, 1946) and of the Tohoku University, Japan (Ph.D., Economic Geology, 1963).
2. I am a "GIJUTSUSHI" (a qualification for a consulting engineer authorized by Japanese Government) and a member in good standing of the Association of Professional Engineers of the Province of British Columbia and the Yukon Territory.
3. I have been practising my profession continuously for the past thirty-five years, and am an independent Consulting Geologist with my office at 1374 Park Dr., Vancouver, B.C. V6P 2K6.
4. I have no direct or indirect interest in the property, nor do I anticipate receiving any such interest.
5. This report is based on my personal study and work in my office using the data which were carried out by Al Carlos and assisted by Glen Harris at the property during April 3 - 8, 1982.



Toru Kikuchi, Ph.D., P.Eng.

Vancouver, B.C.
May 21, 1982

APPENDICES

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STATEMENT OF QUALIFICATION

I, ARNOLD MULLIN, of the City of Whitehorse in the Yukon Territory
DO HEREBY CERTIFY that I am a Director of SKAGWAY MOLY INC., a
reporting company, with B.C. registration, since September 1980.



A. Mullin, Director.

Whitehorse, Yukon.
18 October, 1982.

SKAGWAY MOLY INC.STATEMENT OF COSTOCTOBER 1982

PROJECT: GOLD Claims

TYPE OF REPORT: Geophysical

a) Wages:	No. of days:	
	Rate per day:	
	Dates:	
	Total wages:	\$
b) Food & Accommodation:	No. of days:	
	Rate per day:	
	Dates:	
	Total cost:	\$
c) Transportation:	No. of days:	
	Rate per day:	
	Dates:	
	Total cost:	\$
d) Instrument Rental:	Type of instrument:	
	No. of days:	
	Rate per day:	
	Dates:	
	Total cost:	\$
e) Analysis:	(See geophysical report by Toru Kikuchi, Ph.D., con- sulting geologist):	\$
f) Cost of Preparation of Report:	Author:	
	Drafting:	
	Typing:	
	Total cost:	\$
g) Other:	Bondar Clegg Assay \$ 12.50	
	Kikuchi report: 1,800.00	
	Geophysics: 1,216.65	
	Line preparation: 6,047.91	
	Total cost	<u>\$ 9,077.06</u>
		<u>\$ 9,077.06</u>

Unit Cost for Geophysics

No. of days	6	
No. of units	1,054 readings	
Unit cost:	\$2.874/reading	
Total cost:	\$2.874 X 1054	\$3,029.15

Unit Cost for Line Preparation

No. of units:	40 km	
Unit costs:	\$151.1978/km	
Total cost:	\$151.1978 X 40	<u>6,047.91</u>
		<u>\$9,077.06</u>

We have reviewed the accounting records of Skagway Moly Inc. for the period March 1, 1982 to August 31, 1982. During this period, the Company incurred exploration and development expenditures of \$9,077.06 on Gold Claims, Whitehorse Mining District, Yukon excluding staking and assessment costs.

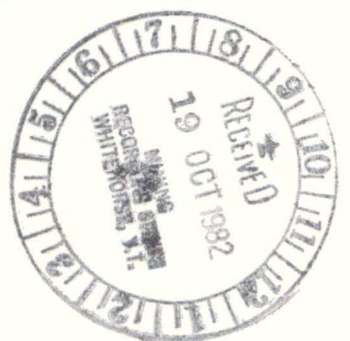
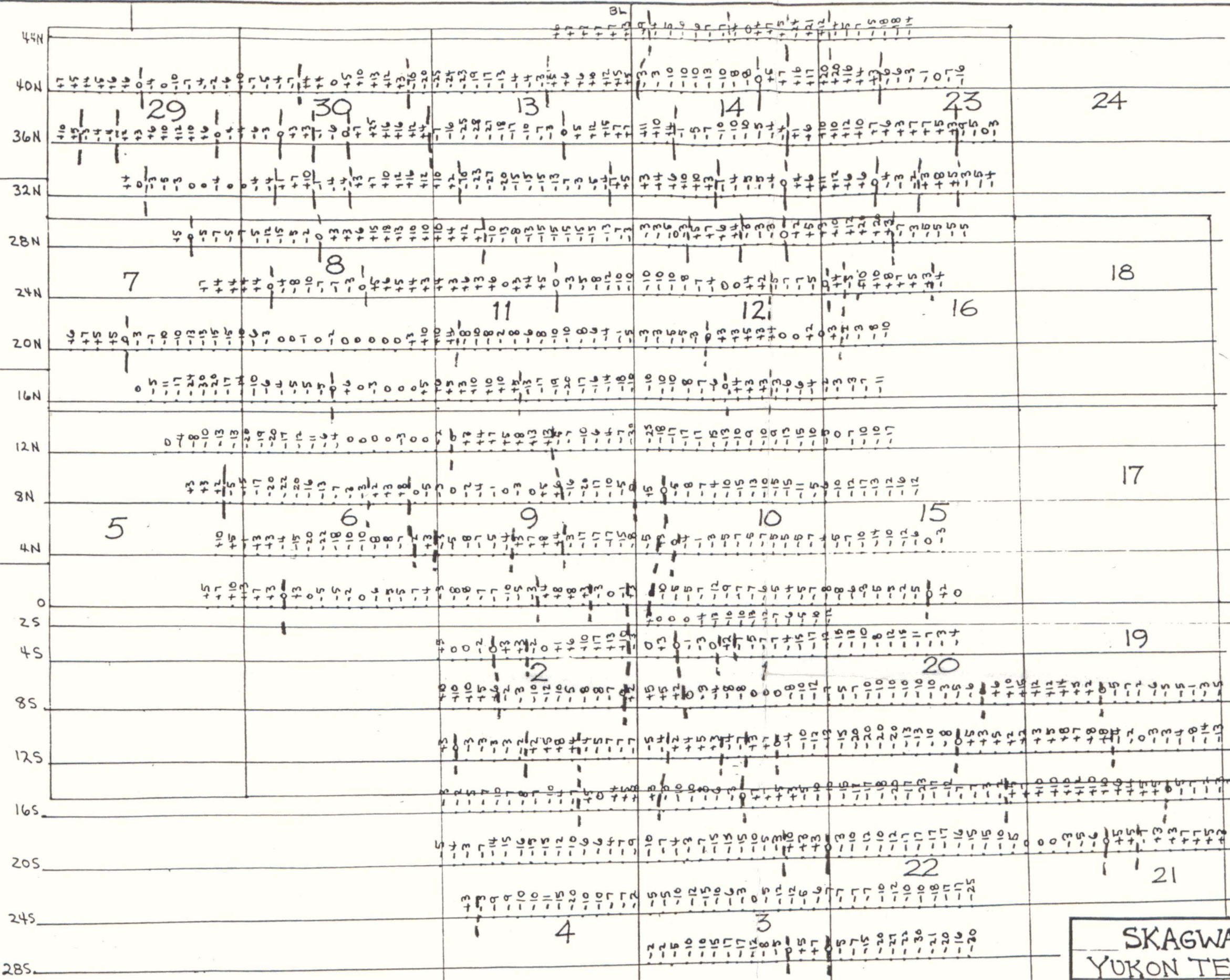
Whitehorse, Yukon
October 18, 1982

MacKay + Partners

CHARTERED ACCOUNTANTS

RJ 5

RJ 7



RJ 12

RJ 14

091370

SKAGWAY MOLY INC. GOLD GROUP, YUKON TERRITORY, WHITEHORSE M.D.		
SCALE: 1" : 800'	APPROVED BY: TK	STATION INTERVAL 100'
DATE: MAY 17/82	DRAWN BY EFF	
Geophysical Survey Claim - Electromagnetic Survey		
By: Toru Kikuchi P. Eng Consulting Geologist	Ref: To accompanying report by T.K.	DRAWING NUMBER 2 EM CONDUCTORS

Toru Kikuchi