

REPORT ON THE MO (1-6)  
MINERAL CLAIMS

SKEENA MINING DIVISION  
CHARTA MINES LTD.

by

John R. Poloni, B.Sc., P. Eng. *93E/12W*

October 1, 1972

*93E/12W*

3974

REPORT ON THE MO (1-6)

MINERAL CLAIMS

KEMANO AREA

SKEENA MINING DIVISION

for

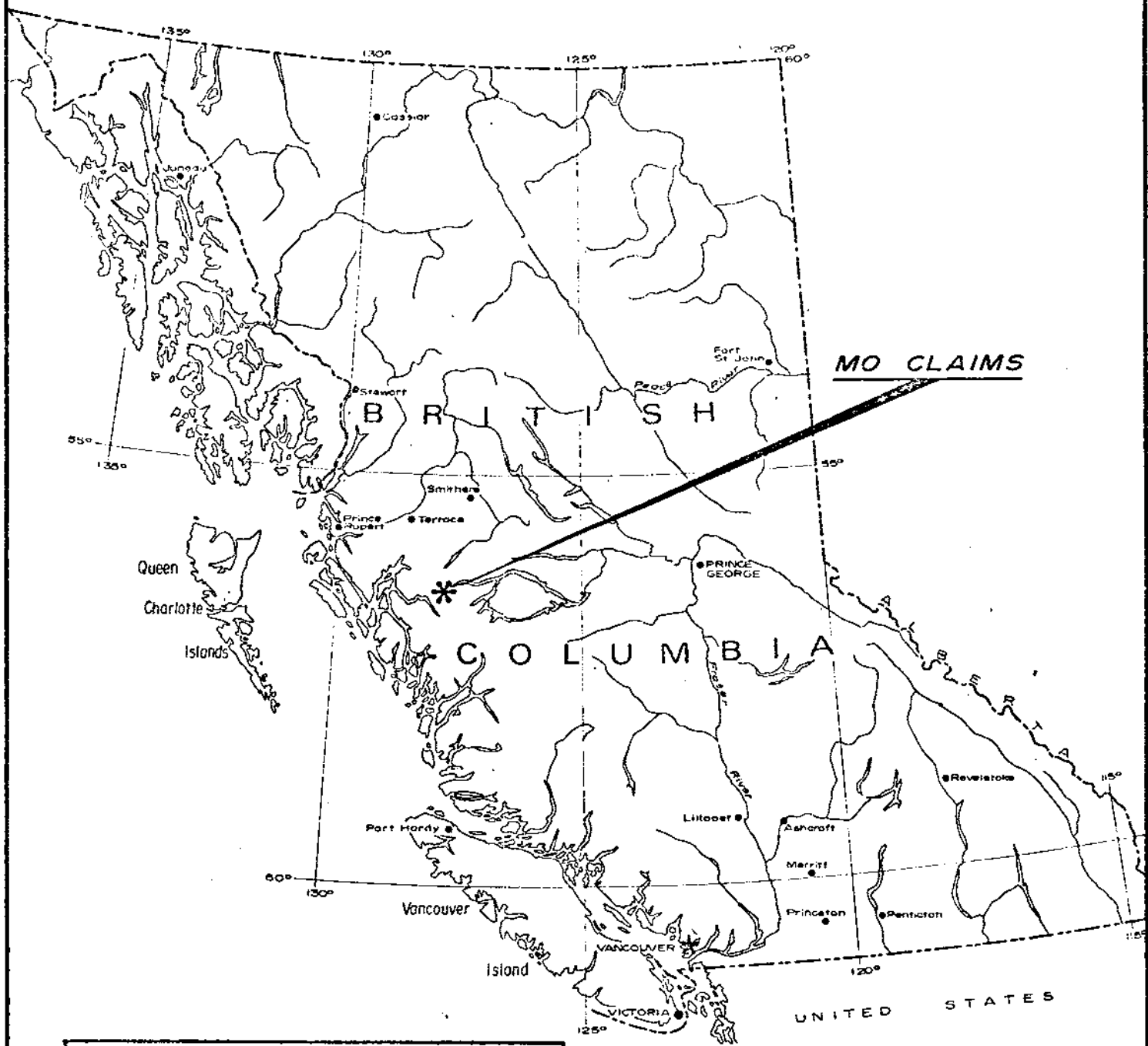
CHARTA MINES LTD.

by

John R. Poloni, B. Sc., P. Eng.

October 1, 1972.

<p>Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 3974 MAP _____</p>
---



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **3974** MAP **#1**

CHARTA MINES LTD. (N.P.L.)	
<b>PROPERTY LOCATION MAP</b>	
SKEENA M.D.	
JOHN R. POLONI B. Sc., P. Eng.	
SCALE: 1" = 136 miles	JULY 1, 1972

TABLE OF CONTENTS

	<u>Page No.</u>
1. SUMMARY AND CONCLUSIONS.....	1
2. INTRODUCTION.....	2
3. LOCATION MAP.....	3
4. PROPERTY.....	4
5. LOCATION AND ACCESS.....	4
6. PHYSIOGRAPHY.....	5
7. GLACIATION.....	5
8. CLIMATE.....	6
9. HISTORY.....	6
10. GEOLOGY.....	7
11. SAMPLING.....	8
12. SUMMARY FOR COSTS OF PROGRAM.....	9
13. APPENDICES.....	10 - 15
Appendix A - References	10
Appendix B - Writer's Certificate	12
Appendix C - Fig. #3, #4	15

#1 Property Location map

#2 Claim location map 1"=5,000'

#3 Channel-chip sampling alaskite zone

#4 Quartz stringer area sampling

#5 Geological plan

#6 Claim location map 1"=3,000'

SUMMARY AND CONCLUSIONS

During July and August 1972, five days were spent by the Author and three field men, mapping and sampling the zone of mineralized alaskite occurring on the MO (1-6) claims. This program consisted of detailed geological mapping using drainage control, along a steep northerly flowing tributary of Horetzky Creek. Channel-chip sampling was undertaken across the alaskite and across mineralized quartz veins in granodiorite.

Sufficient encouragement was encountered to recommend a follow up program.

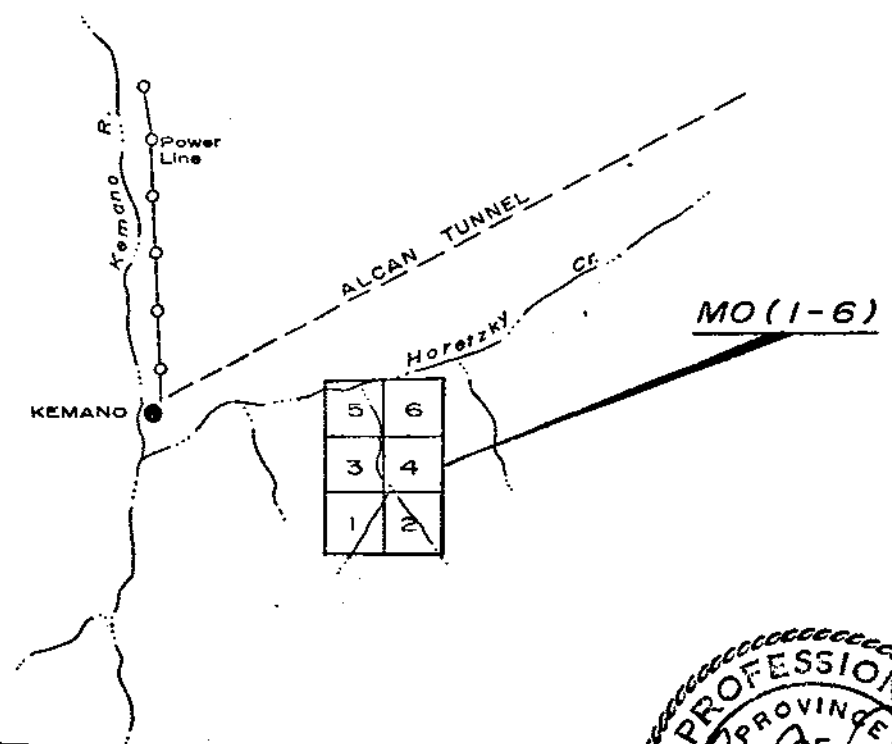
INTRODUCTION

This report is prepared for Charta Mines Ltd., as a summary of the Geological mapping and sampling program conducted by the Author on the MO (1-6) mineral claims during this period.

A zone of mineralized alaskite occurring on a steep northerly facing slope located between Kemano B.C., and the Jaws Peaks was mapped geologically using drainage patterns for control. Chip channel sampling was undertaken along six shallow trenches across the alaskite and across six quartz stringers which exist approximately 400 feet east of the Alaskite-Granoclitorite contact.

LOCATION MAP

Fig. #1



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **3974** MAP # **2**



FIG. 1

CHARTA MINES LTD. (N.P.L.)

**CLAIM LOCATION MAP**

SKEENA M.D.

JOHN R. POLONI B. Sc., P. Eng.

SCALE: 1" = 5,000'

JULY 1, 1972



PROPERTY

The property consists of six mineral claims located 1½ miles east of Kemano B.C., on a steep mountain slope immediately south of Horetzky Creek at Latitude 53° 33' N, and Longitude 127° 54' W.

Claims data obtained from the Office of the Mining Recorder in Vancouver is as follows:

<u>Name</u>	<u>Record No.</u>	<u>Expiry Date</u>	<u>Staking Date</u>
MO (1-6)	(34464-69)	August 20, 1972	July 29, 1969

The Cairn for MO 1, 2 and the claim posts for MO (3-6) were not found in the field examination.

Forty-two TAS claims (1-8) (11-44) were staked during July and August 1972 covering the original MO (1-6) claims and ground to the south of Horetzky Creek

LOCATION AND ACCESS

Located 75 miles south of Terrace B.C., the property is accessible, by boat from Kitimat via the Gardner Canal and by float equipped aircraft stationed at both Terrace and Kitimat. The Aluminum Company of Canada maintains the settlement at Kemano and a deep sea port on the Gardner canal at the mouth of the Kemano River 10 miles from the claims.

### PHYSIOGRAPHY

The claims lie within the Pacific Ranges of the Coast Mountains characterized by deeply incised valleys and sharp crested ridges. Both north-west and north-east trending valleys have been formed in a rectangular pattern in mountains composed almost entirely of granitoid rocks.

Inmature fir covers the claims between elevations 1500 feet and 2500 feet above mean sea level. Above 2500 feet, extensive areas of outcrop and light overburden exist. Alder and devil's club make passage difficult near the banks of Horetzky Creek.

### GLACIATION

The entire area was covered by the continental ice sheet during Pleistocene time. Alpine glaciation is active in the higher mountains at the present time and nearly every peak of 7000 feet has its cirque glacier or ice-cap. A large ice field is located on Tahtsa Peak, 6 miles east of the claims.

Such remnant features, as cirques, terminal and lateral moraines, hanging valleys, truncated spurs and U-shaped valleys exist over much of the Pacific Coast ranges.

### CLIMATE

The climate of the area is characterized by heavy precipitation, short moderately warm summers, and cold winters with abundant snowfall. Kitimat reports an average precipitation of about 90 inches. Snowfall on the claims is generally extreme and remains in sheltered areas until late June or July.

### HISTORY

Claims were staked in the area in 1906 when the Pintledanne group was located by Messrs. Daking and Pocklington on what was called Pintledanne Creek. Ore minerals consisted of charcopyrite, bornite and molybdenite in a wide quartz vein in granitic rock. A second reference to this area was mentioned in the Minister of Mines report for 1918 when the Stewart group owned by T. and D. L. Stewart and W. Vickers was described. Both property descriptions resemble the showings as seen on the MO (1-6) claims.

Detailed geological mapping was undertaken in conjunction with the Alcan Tahtsa Lake-Kemano Tunnel. This tunnel provided a 10 mile cross section through the contact zone of the main body of Coast Intrusions with older volcanic and sedimentary rocks.

Evidence exists indicating that a short adit was driven in a southerly direction on the MO claims in a faulted quartz vein containing copper mineralization. The portal of the adit is now caved but it is felt that only limited work was undertaken.

The mineralization found on the MO (1-6) claims does not appear to have been examined in any significant exploration program.

Mr. Alex Burton examined the property for United Copper Corporation in the summer of 1967.

#### GEOLOGY

Grey, coarse grained, quartz diorite, and granodiorite of Jurassic Coast Intrusions are described by S. Duffell in G.S.C. Memoir 299 as occurring in the area of the claims. These units were observed in field examination.

Mineralization, consisting of chalcopyrite, chalcocite, malachite, azurite, bornite and molybdenite was observed in quartz veining and as pods in a fine grained intrusive dike resembling Alaskite in nature. The quartz veins vary from narrow stringers to massive white quartz 8 feet in width. Mineralization occurs in the quartz and also in the wall rock.

A strong near vertical shear zone occurs near the large quartz vein and near the eastern boundary of the alaskite dike.

Geological mapping has indicated a zone of mineralized alaskite approximately 1500 feet long, 5 - 600 feet wide and 7 - 800 feet in vertical extent. This zone narrows to 5 - 8 feet at its lowest elevation, where it is exposed in the northerly flowing creek draining into Horetzky Creek. Fig. #2

#### SAMPLING

The Alaskite Zone was sampled using a channel chip method in 6 trenches for a total of 478 feet. Fig. #3.

The quartz veins occurring in the granodiorite were also sampled and mapped. Fig. #4.

PROGRAM COSTS

Personnel

(4 men for 5 days

Transportation

C.P. Air Van. - Terrace \$ 344.00

Okanagan Helicopters 512.00

Food and Camp Costs

\$30.00 per day X 5 days 150.00

Assays 450.00

Wages

5 days @ \$175.00 875.00

TOTAL COST \$2,331.00

Declared before me at the *City*  
of *Manpower*, in the  
Province of British Columbia this *20<sup>th</sup>*  
day of *October* *1972*, A.D.

Respectfully Submitted,  
*John R. Phillips*  
John R. Phillips  
B. Sc., P. Eng.  
BRITISH COLUMBIA  
ENGINEER

*J.R. Phillips*  
A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.

SUB MINING RECORDER

APPENDIX A

REFERENCES

REFERENCES

1. Duffell, S. 1957, G.S.C. Memoir 299. Whitesail Lake Map-Area B.C.
2. Geology, Exploration and Mining in British Columbia 1969, 1970. British Columbia Department of Mines and Petroleum Resources.



APPENDIX B

WRITER'S CERTIFICATE

CERTIFICATE

I, John R. Poloni, of 5502 - 88 Avenue, in Delta,  
in the Province of British Columbia

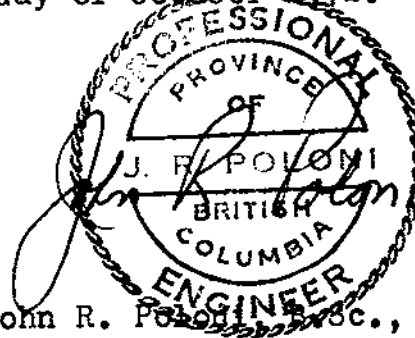
DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist.
2. I am a graduate of McGill University of Montreal, Quebec, where I obtained a B. Sc. degree in Geology in 1964.
3. I am a registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia.
4. I have practiced my profession since 1964.
5. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
6. I am a member of the Association of Geologists of Quebec.
7. I have visited the MO (1-6) Mineral Claims on July (26 - 31), 1972, and examined the mineral showings as reported.

CERTIFICATE con't.

8. I have no interest in the properties or securities of Charta Mines Ltd., nor do I expect to receive or acquire any.

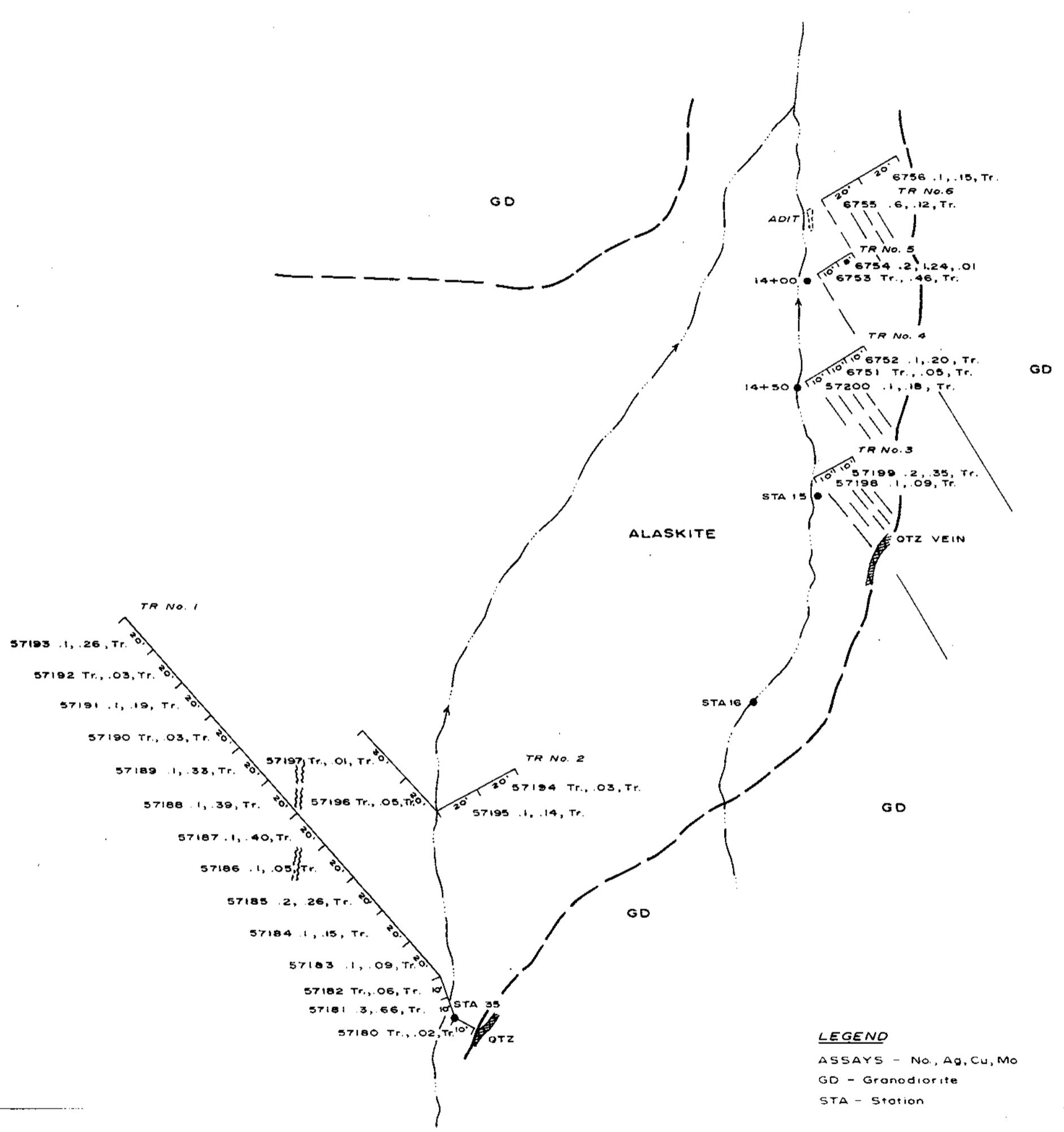
Dated this 1st day of October 1972.



John R. Poloni, P. Eng.

APPENDIX C

Fig. #3, #4



**LEGEND**  
 ASSAYS - No, Ag, Cu, Mo  
 GD - Granodiorite  
 STA - Station

FIG. 3

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **3974** MAP **#3**



CHARTA MINES LIMITED

CHANNEL-CHIP SAMPLING  
 ALASKITE ZONE  
 NO CLAIMS

JOHN R. POLONI B.Sc., P. Eng.

SCALE: 1" = 20'      OCTOBER 1, 1972

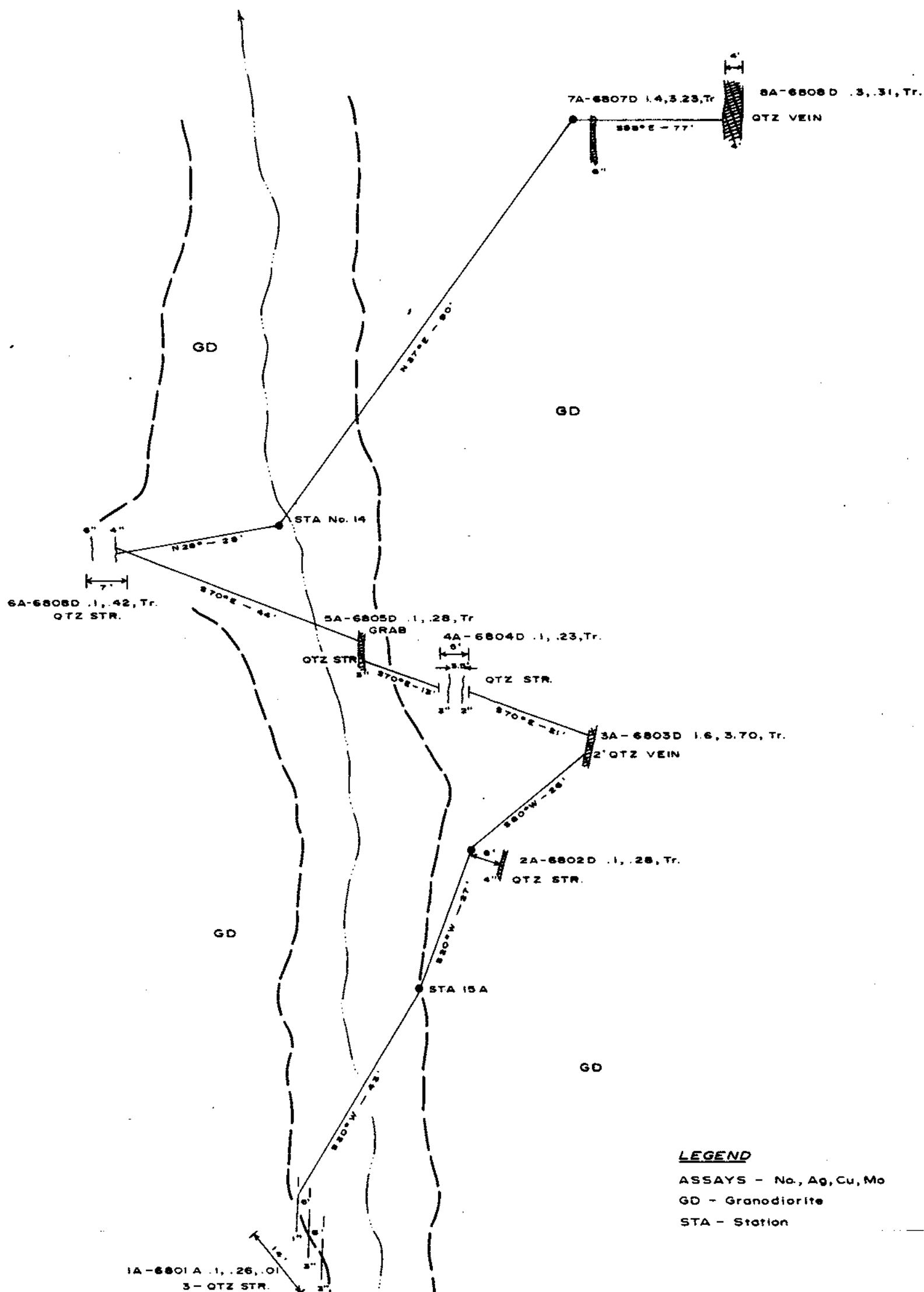


FIG. 4

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **3974** MAP **#4**



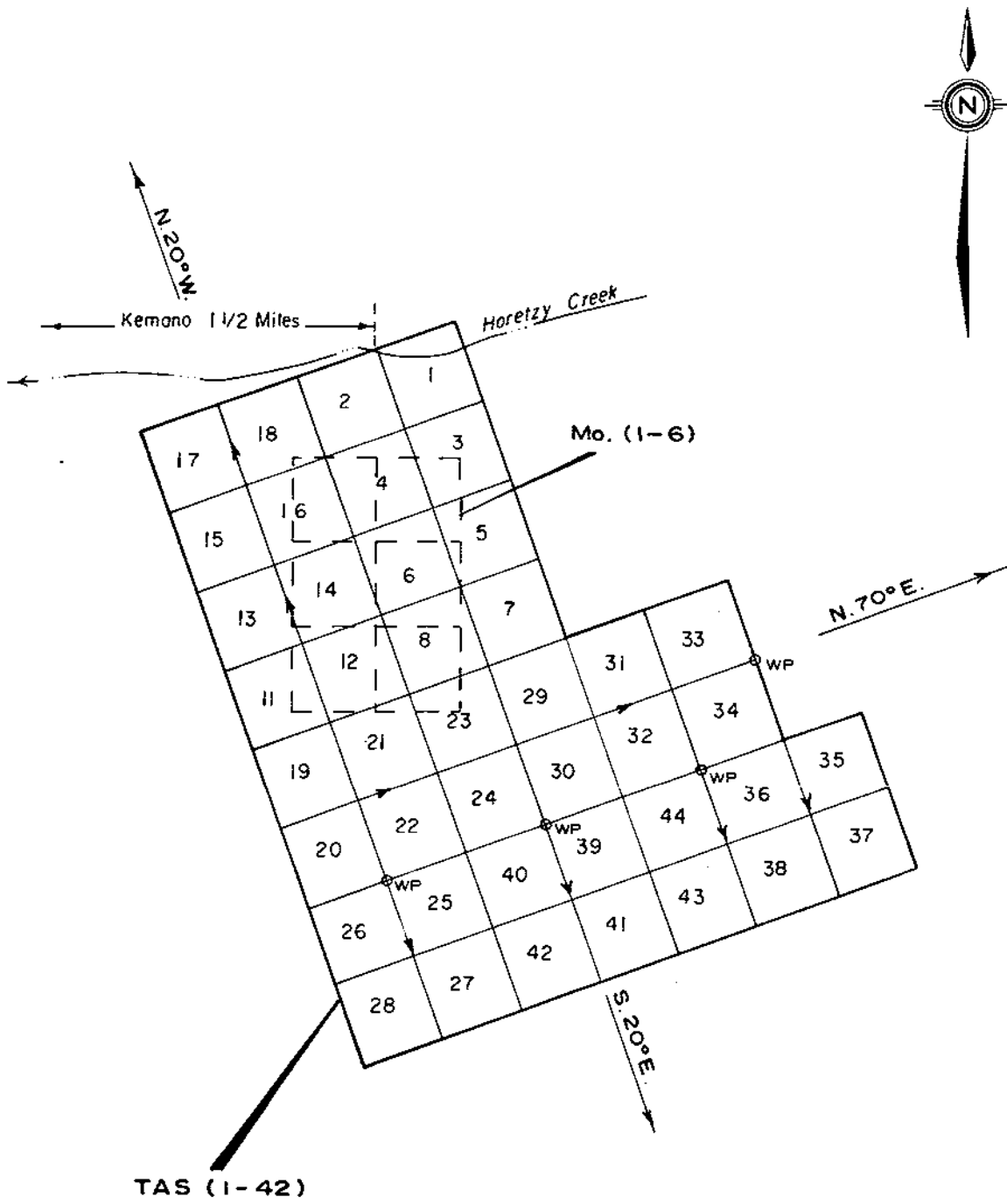
CHARTA MINES LIMITED

QUARTZ STRINGER AREA  
 SAMPLING

NO CLAIMS

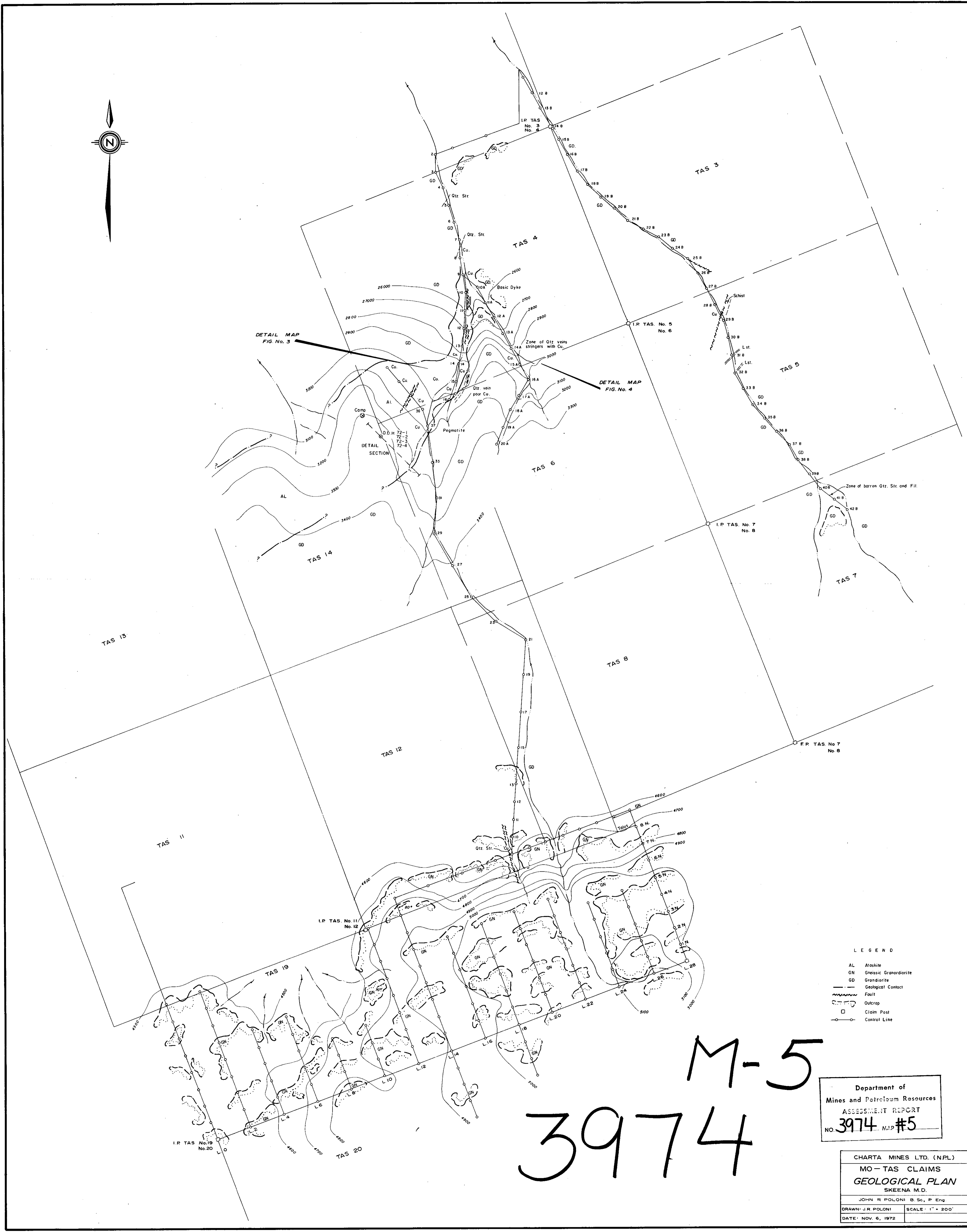
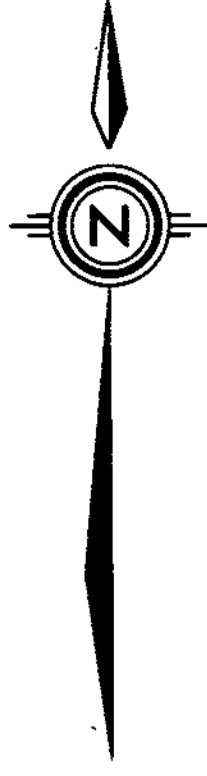
JOHN R. POLONI B. Sc., P. Eng.

SCALE: 1" = 20'      OCTOBER 1, 1972



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **3974** MAP **#6**

CHARTA MINES LTD. (N.P.L.)  
 MO-TAS CLAIMS  
**CLAIM LOCATION MAP**  
 SKEENA M.D.  
 JOHN R. POLONI B. Sc., P. Eng.  
 SCALE: 1" = 3000'      NOV. 6, 1972



LEGEND

- AL Ataskite
- GN Gneissic Granodiorite
- GD Grandiorite
- Geological Contact
- ~~~~~ Fault
- Outcrop
- Claim Post
- Control Line

M-5  
3974

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3974 MAP #5

CHARTA MINES LTD. (NPL)  
MO-TAS CLAIMS  
GEOLOGICAL PLAN  
SKEENA M.D.  
JOHN R. POLONI B.Sc., P. Eng.  
DRAWN: J.R. POLONI SCALE: 1" = 200'  
DATE: NOV. 6, 1972