

179-#439-#7518

ALLEN RESOURCE CONSULTANTS LTD.

GUY ALLEN, P.ENG. (B.C.), P.GEOL. (ALTA.)
CONSULTING GEOLOGIST

BOX 7248, POSTAL STATION "E" CALGARY, ALBERTA T3C 3M2

TELEPHONE (403) 266-6150

REPORT ON
PROSPECTING, GEOLOGICAL, AND GEOCHEMICAL
INVESTIGATIONS

HEATHER 12 MINERAL CLAIM,

KAMLOOPS MINING DIVISION

BRITISH COLUMBIA

Location: NTS 92I/16E, west side of Louis Creek
Longitude; 120°02'W, Latitude 50°56'N
Owner: G. Irving
Operator: Mabee Minerals Inc.
Contractor: Allen Resource Consultants Ltd.
Consultant: Guy Allen, P. Eng.

October, 1979

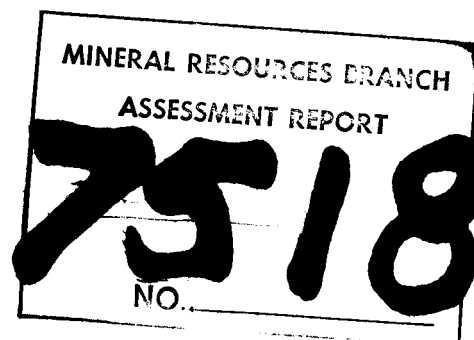


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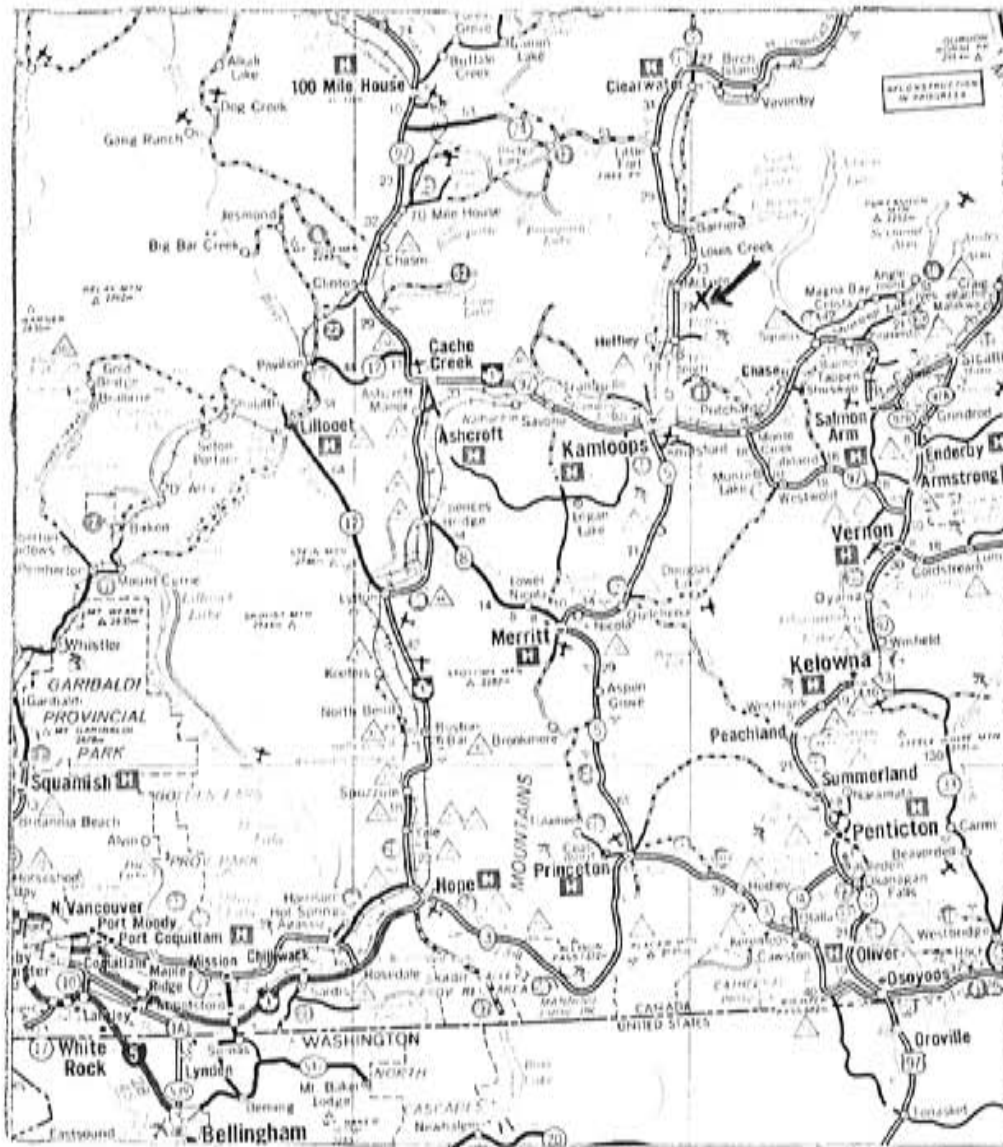


Plate No. 1

HEATHER 12 CLAIM

LOCATION MAP

Scale: 1 cm. = 24 km.

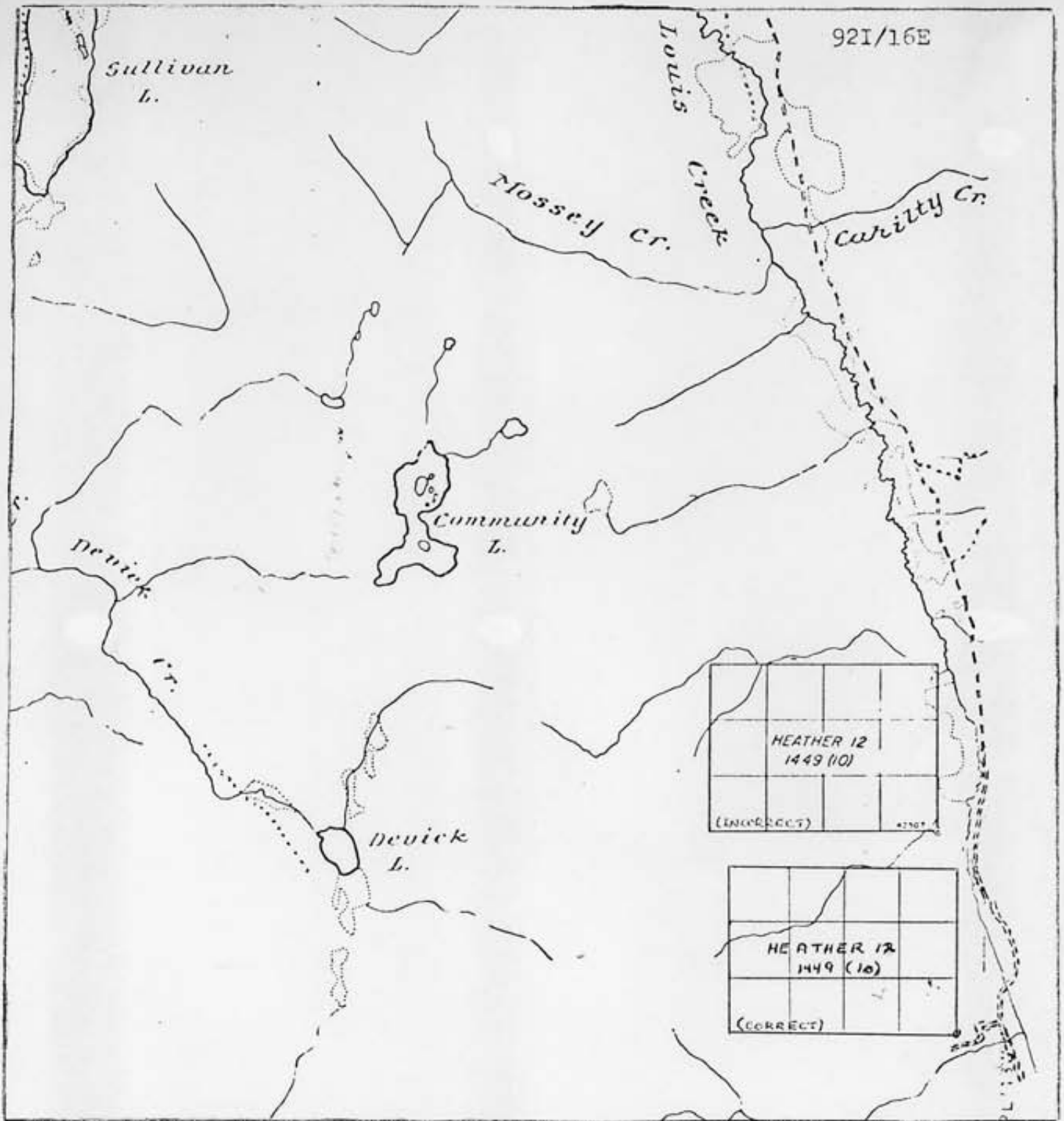


Plate No. 2

HEATHER 12 CLAIM

CLAIMS MAP

Scale: 2 in. = 1 mi.

Introduction

Two days, September 26th and 27th, 1979, were spent on the subject property by the author, in prospecting, geochemically sampling, geologically examining mineralized occurrences, and sampling for assay. Locating the claim required some extra effort, as it is presently shown on the 92I/16E mineral claim map as being approximately one mile to the north-northwest of its actual location. Both the correct and the present incorrect situations are shown on Plate No. 2.

The main purposes in the short program were to prospect, perform some reconnaissance geochemical sampling, locate the old reported workings, and map and sample any mineralized occurrences. The author is indebted to Mr. N. Loughheed, the surface owner, for providing access to the area, and pointing the way to the true claim location.

Location

The Heather 12 claim is located along the west slope of Louis Creek, some ten miles due west of Vinsulla, and 23 miles northeast of Kamloops. More precisely, it is found in NTS 92I/16E, at Longitude $120^{\circ}02'W$, Latitude $50^{\circ}56'N$.

Access

The property is readily accessible by way of No.5 Highway, which follows the North Thompson River from Kamloops to Louis Creek. The Louis Creek road then runs east and south, following Louis Creek itself to the property road, some four miles south of the Cahilty Creek crossing.

Property and Ownership

The Heather 12 claim consists of one claim of twelve units described by location. The claim is registered to Gordon Irving of Kamloops, B.C. Expiry date for the claim is presently October 17, 1979. *RECORN No. 1449.*

Topography

The claim is located along the west slope of Louis Creek, with elevations ranging from 2,500' to 4,000' ASL. The slopes are moderate, with extensive forest cover, primarily of fir and pine.

History

No documented history for the property area could be uncovered. The pits, trenches, and open cut on the quartz veins at the end of the traversed road are of indeterminate age, but probably are not more than forty years old.

Geology

The general area of the claim is underlain by rocks assigned to the Cache Creek group, of Paleozoic age. These include a sequence of metamorphosed volcanics and sediments, including greenstones, argillites, quartzites, and various schistose varieties.

Within the claim boundaries, outcrops were observed as indicated on Figure No. 1. Near Station A, along the roadside for 300 meters was seen a hard, blocky, very siliceous, platy meta-andesite. This zone showed a strike of N70°W, with a south dip at 70°.

Between Stations A and B, a zone of metavolcanics was noted in the road bed. The rock is splintery, dark grey, with good schistosity. The strike is N40°W.

Along the road between Stations M and N, for approximately 30 meters, is a light to medium brown, speckled, splintery, micaceous schist, which has a rotten-wood appearance. It is very argillaceous and silty, and weathers white in part. The strike is N30°W with an 85°SW dip. As exposed along the west side, the zone has pronounced jointing, striking S50°W, and dipping 85°NW.

Between Stations aa and bb is an outcrop of greenstone, that is hard and splintery, and strikes N40°W with a dip of 85°SW. This rock type occurs again at Station cc, where it is more splintery and dips vertically, with a N40°W strike.

Pit No. 1 exposes a zone of metavolcanics, striking S20°E, with a dip of 85°W. The rock exposed alternates between zones of hard, dark green-grey, blocky, splintery material with well-defined jointing; and soft, platy, crumbly, finely-laminated rocks. Striking west from the east wall of the pit is a six-inch vein of rusty, broken quartz. The vein appears to follow the strike of the jointing in the country rock. Where fresh, the quartz is white and milky, and partly banded. The vein dips 80°N. On the other side (west) of the pit, two small veins, one inch and four inches wide, were observed, showing the same orientation and appearance.

Pit No. 2 is located immediately southeast of Pit No. 1. Hard, massive, blocky, metavolcanics occur in contact with the soft, crumbly, finely-banded variety. The strike is S30°W, but appears to be bending. The dip is 80°N.

The hard, blocky variety of metavolcanics were also observed in Pit No. 4. Here the strike is S10°W, with a vertical dip. A two foot quartz vein cuts this zone, striking N70°W.

Pit No. 5 showed no outcrop, but pieces of hard, blocky, massive metavolcanic was observed on the dump.

At the main showings to the south, on the open-cut face, and the face to the east-northeast, the country rock is mainly the hard, blocky variety of metavolcanics, alternating with 10% to 40% of the soft, crumbly type. The vein varies from one foot to two feet wide, and is composed of white, milky quartz with country rock inclusions. It strikes S75°W, with a 75°N dip.

Mineralization and Description of Workings

The observed mineralization consists of pyrite and minor chalcopyrite in white, milky quartz veins. A number of veins were observed directly, and others were inferred from float.

Five pits, an extensive trench, and an open cut comprise the observed workings. Their arrangement can be seen on Figure No. 2. Pit No. 1 is located 29 meters at S30°W from Station tt. The pit is twelve feet long in a S10°E direction. The north half of the pit is one foot deep and one and one-half feet wide, whereas the south half is five feet wide and three feet deep in the center. There is considerable sloughing. The six-inch quartz vein exposed in the west wall at the south end assayed gold - trace, copper - 0.06%. A composite sample from two smaller veins in the east wall at the south end contained gold - trace, copper - 0.01%.

Pit No. 2 is six feet by three feet, and 18 inches deep. Float quartz on the dump assayed gold - trace, and copper - 0.01%. The pit is immediately to the southeast of No. 1.

Pit No. 3 is eleven feet in a S35°E direction from the southwest end of Pit No. 1. The pit measures two feet by two feet, and is sloughed in. Quartz float material was found on the dump.

Pit No. 4 is nine meters in a S15°W direction from the north end of Pit No. 1. Pit No. 4 is two feet by two feet, and has exposed a two-foot wide quartz vein. A sample across this vein width assayed; gold - trace, copper - trace.

Pit No. 5 is approximately 81 meters west-southwest from the north end of Pit No. 1. Pit No. 5 is two feet wide, two feet deep, and thirty feet long. It is sloughed in, and no outcrop was observed in place.

The main trench and open cut are located 34 meters south of Pit No. 5. The trench strikes S40°E, is three feet wide, three feet deep, and 50 feet long. At the north end it changes direction, and goes for five feet at S70°W. This short portion is five feet deep. There is a substantial dump of vein quartz at the bend in this trench. A sample of rusty quartz assayed gold - trace, copper - 0.22%, while a sample of non-rusty quartz contained gold - trace, copper - 0.07%. The open cut face is eight meters in a S65°W direction from this dump. Here, the quartz vein is exposed for a vertical height of 25 feet, and is one to two feet wide. The vein has been excavated back for about 15 feet. A sample across a one foot vein width assayed gold - 0.03 oz/ton, copper - 1.71%.

Twenty-one meters from the dump in the opposite direction (N65°E) is an additional exposure of the vein, varying from one to two feet wide. A sample across 1.5 feet assayed gold - trace, copper - 0.01%.

Geochemical Results

In conjunction with conventional prospecting, a reconnaissance survey of geochemical prospecting along the located roads was undertaken. A total of forty-six soil samples were collected, on an average separation of 60 meters. The samples were dug from a depth of 4" - 12" in order to sample the 'B' soil horizon, which is relatively shallow in this area. The samples were placed in labelled kraft paper envelopes, and forwarded to Chemex Labs (Alberta) Ltd. for analyses. At the laboratory, the samples were dried, sieved, and subjected to perchloric acid digestion. Analyses by atomic adsorption was made for copper and zinc ions. The results are included in Appendix A, and shown graphically on Figure No. 1.

The density and number of samples taken is not sufficient to give any definitive results as to the mineral potential of the property. However, a number of observations can be made.

1. The background values for copper appear relatively higher than what would be expected from this type of lithological environment on a regional basis. Normally, a background average of around 50 ppm would be expected, with any values greater than 100 ppm considered anomalous. In this survey, 30% of the copper values are over 100 ppm.

2. There appears to be no correlation between high copper values and high zinc values, suggesting different sources or conditions acting upon these two ions.

3. The highest soil concentration for copper was at Station oo, downslope from the main workings, an area where an assay value of 1.71% copper was obtained. Copper values at Stations tt, ss, & rr were greater than 100 ppm. These were in the area of the northerly pits, where very low assay values for copper were obtained.

4. A four-station copper 'anomaly' (Stations kk, jj, hh, & gg) cannot be attributed to any rock exposures in the vicinity, and hence, is unexplained.

5. Other one-station high copper values (Station Y, aa, & cc) are also unexplained.

Conclusions

The results of these preliminary investigations are not encouraging.

The quartz veins, where observed, are numerous, but in no case do they appear to have sufficient size to establish any meaningful tonnages, should an economic grade be discovered. Only one vein sample of the eight taken, was interesting. These vein occurrences, and any others of this type that might exist on the property, do not appear to be suitable exploration targets. The assays suggest no gold potential, and the copper is very erratic. There is a good probability that the unexplained copper, geochemical highs may have the same type of source.

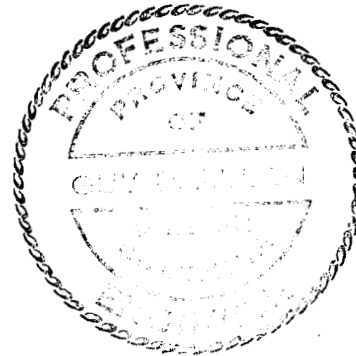
The major portion of the claim has not been explored. There is potential in this part of the Province, and in this lithological sequence for massive sulphide deposits and auriferous quartz veins. Additional exploration work on the property could be done with the intent of locating situations such as these. However, the claim area must be seen in this regard as having no greater potential than unstaked ground in the same general area.

Recommendations

No further work is recommended for the Hesther 12 claim.



Guy Allen, P. Eng.
October, 1979



Expiry Date April 22, 1980


CHEMEX

CALGARY 2021 - 41 AVE. N.E. CALGARY, CANADA T2E 6P2
 TELEPHONE (403) 276-9627 TELEX 038-25541
 EDMONTON 6112 DAVIES ROAD, EDMONTON, CANADA T6E 4M9
 TELEPHONE (403) 465-9877 TELEX 037-41596

CERTIFICATE OF ANALYSIS

• MINERAL • GAS • WATER • OIL • SOILS • VEGETATION • ENVIRONMENTAL ANALYSIS

MABEE MINERALS INC.

DATE

OCT 9/79

PROJECT NO.

8332-1-1230

GEOCHEMICAL ANALYSES

PAGE: 1 OF 2

SAMPLE NUMBER	CU PPM	ZN PPM
A	14	145
B	34	239
C	17	166
D	37	192
E	13	155
F	41	175
G	128	186
H	22	196
I	25	215
J	15	160
K	35	197
L	69	235
M	15	306
N	110	114
O	33	123
P	42	183
Q	82	158
R	89	208
S	43	250
T	108	270
U	99	198
V	20	155
W	38	194
X	21	42
Y	300	65
Z	47	79
AA	133	109
BB	28	98
CC	169	109
DD	99	113
EE	17	42
FF	38	119
GG	216	127
HH	263	49
II	68	143
JJ	225	105
KK	153	282
LL	25	259
MM	47	215
NN	89	84

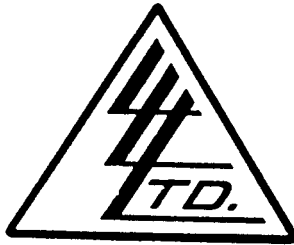

 MEMBER
 CANADIAN TESTING
 ASSOCIATION

 Certified by *[Signature]*

Appendix B - Rock Assays

To: MABEE MINERALS INCORPORATED
 1903-505 Sixth Street S.W.
 Calgary, Alberta

File No. 17885
 Date October 3, 1979
 Samples Rock Chip



Certificate of
 ASSAY of

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	% Cu
<u>"ROCK CHIP SAMPLES"</u>		
19801	Trace	.06
19802	Trace	.01
19803	Trace	.01
19804	Trace	Trace
19805	Trace	.07
19806	Trace	.22
19807	Trace	.01
19808	.030	1.71

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.

Pulps Retained one month
 unless specific arrangements
 made in advance.

A. M. Isaac
 Licensed Assayer of British Columbia

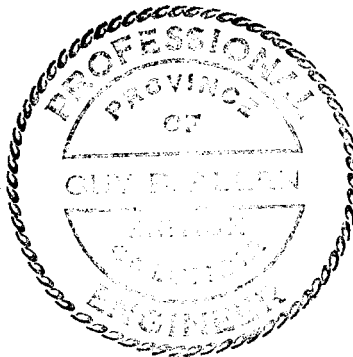
Appendix C - Certificate of Expenditures

1. Professional Services: G. Allen, P. Eng.	
Field Examination; 2 days @ \$250.00	\$500.00
Travel; 2 days @ \$250.00	\$500.00
Map & Report Preparation; 2½ days @ \$250.00	\$625.00
2. Expenses	
Meals & Motels	\$108.78
Four wheel drive mileage; 1,438 km @ 21¢	\$301.98
3. Maps, xerox, typing, & drafting	\$155.72
4. Assays; 8 samples @ \$12.50	\$100.00
5. Geochemical Analyses; 46 samples @ \$2.60	\$119.60
	<hr/>
Total	\$2,411.08

Certificate of Qualifications

I, Guy Allen, declare that:

- I reside at 303 Wildwood Drive S.W., Calgary, Alberta;
- I am a consulting geologist, and have practiced my profession for over eighteen years;
- I graduated from the University of Western Ontario in 1957 with the degree of Bachelor of Science (Geology);
- I am a Professional Geologist, registered with the Alberta Association of Professional Engineers, Geologists, and Geophysicists, and a Professional Engineer (non-resident status), registered with the Association of Professional Engineers of the Province of British Columbia; and that
- I am president and a director of Mabee Minerals Inc., which holds an option agreement on the Heather 12 claim.



Guy Allen
 Guy Allen, P. Eng.
 October 30, 1979

Expiry Date April 22, 1980

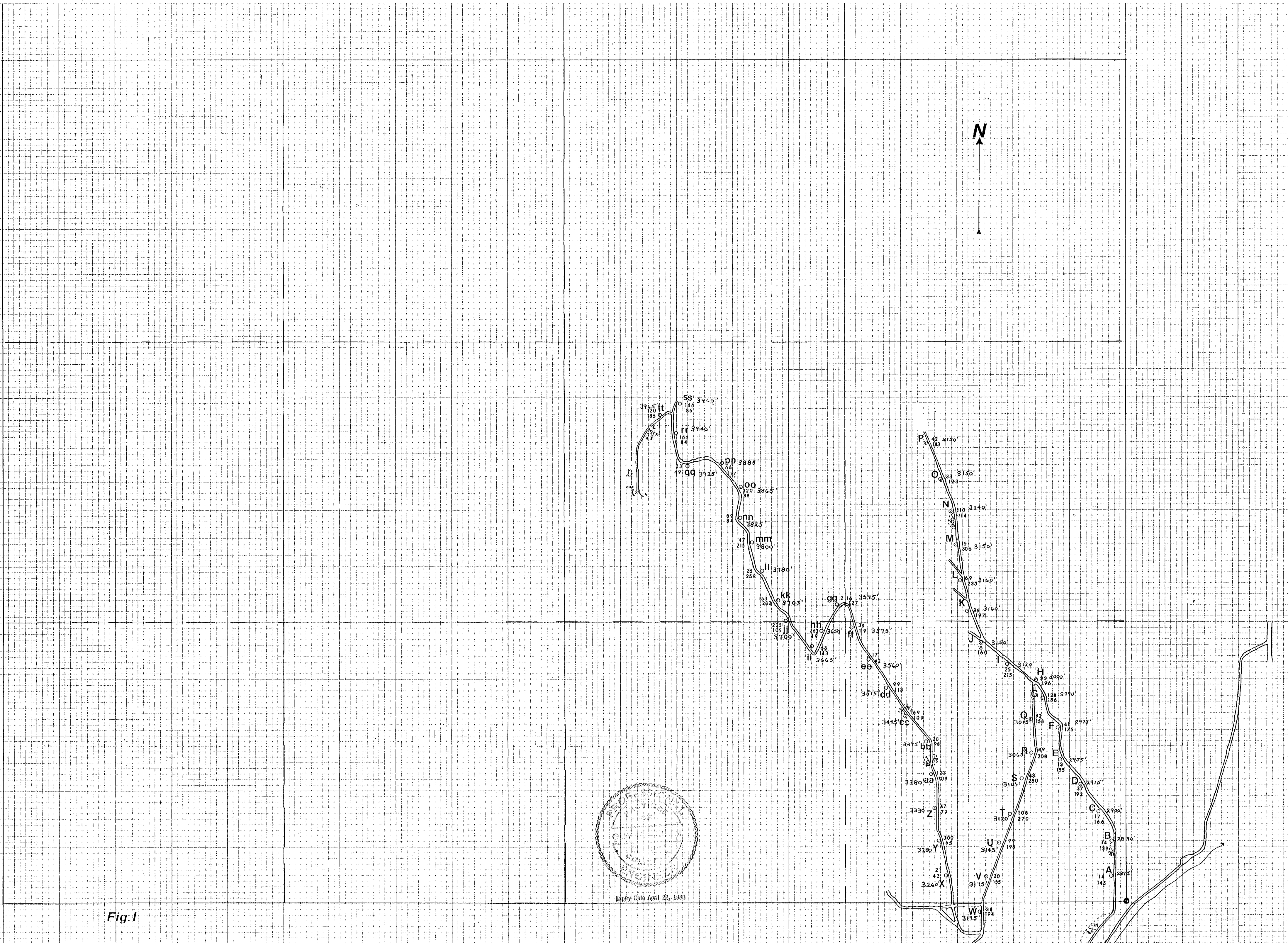


Fig. 1

MABEE MINERALS LTD

Heather 12 claim

Prospecting, Geological & Geochemical Investigations

Scale: 1 in = 100 m

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

7518

LEGEND

- Road
- Soil Sample Location
- Trench
- Geochem Values
Elevation copper
 zinc
- Outcrop
- Strike & Dip
Metavolcanics
Siliceous Schist

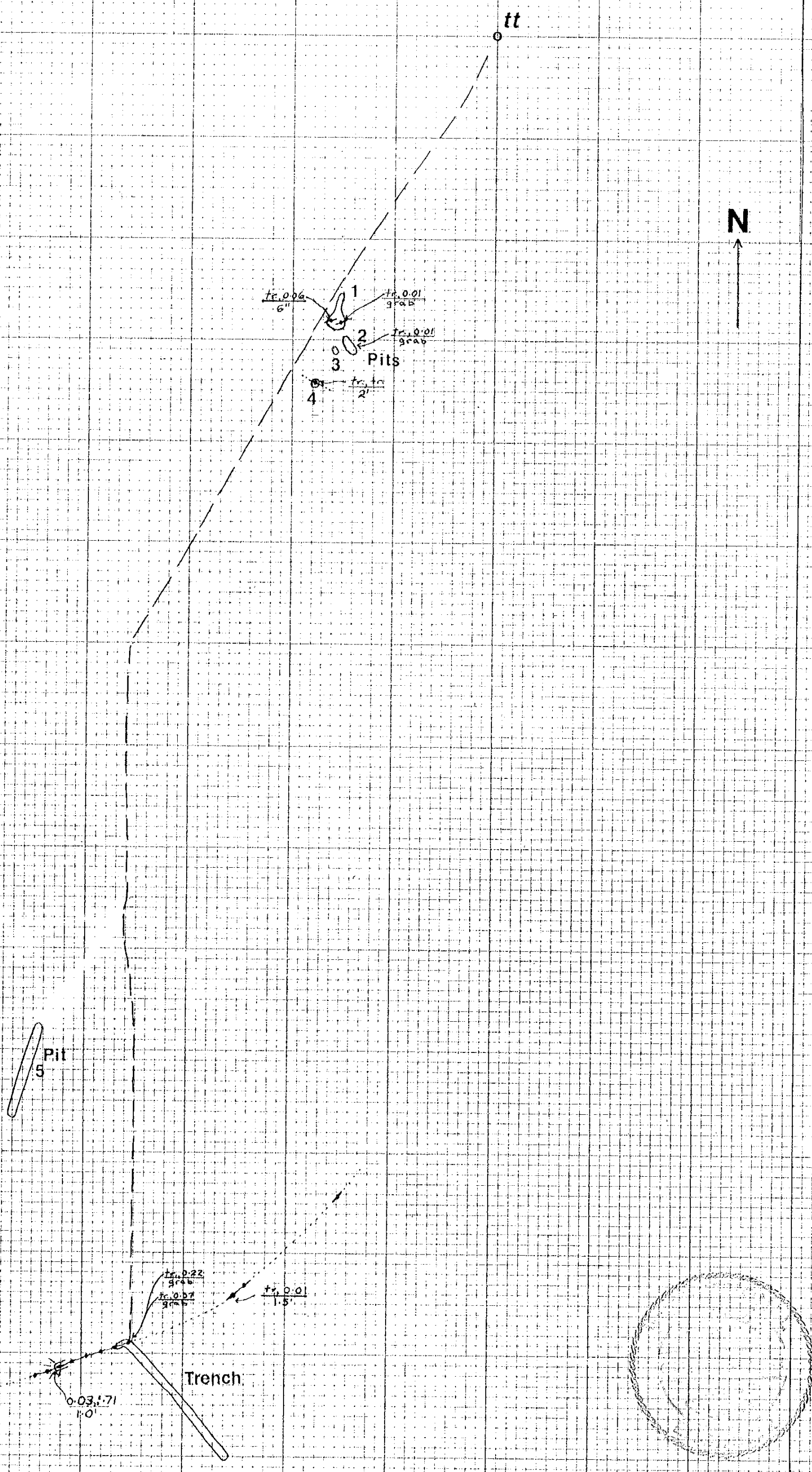


Fig. 2

MABEE MINERALS INC.

**HEATHER 12 CLAIM
MAP OF WORKINGS**

Scale: 1 in. = 10 m.

LEGEND

- Trail
- - - - - Vein Trace, observed, assumed
- 0.03, 1.71
1.0' Assay gold: copper (%)
oz/ton interval
- Sample Station

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

7518