

5744

HOUSTON MINING LTD.

McConnell Creek Property
Ominica Mining District

DRILLING REPORT OF WORK DONE,
AUGUST 4th to AUGUST 18th, 1975

* * * * *

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5744 MAP

C O N T E N T S

- #1 1. LOCATION MAP
2. WORK PERFORMED - DRILLING REPORT
3. ENGINEERS BILLING
4. COST BREAKDOWN
- #2 5. CLAIM MAP - F-1
- #3 6. CLAIM MAP - F-2
- #4 7. MAP OF CURRENT WORK - F-3
- #5 8. MAP FROM ENGINEERS REPORT -
SHOWING PREVIOUS WORK - F-4
9. ASSAY REPORT
10. RECEIPT OF MINING RECORDER
11. ATTACHMENT OF R. W. PHENLER'S
REPORT, DATED AUGUST 7, 1975.
- #6 - LOCATION MAP
- #7 - GEOLOGICAL MAP



LOCATION MAP - CENTRAL BRITISH COLUMBIA

SCALE 1" = 34 MILES

M-1
5744

CANNON-HICKS ASSOCIATES LTD.

D. M. CANNON, P.Eng. (Geological)
 H. BRODIE HICKS, P.Eng. (Mining)
 M. GUIQUET, Geologist

STE. 604 - 744 WEST HASTINGS STREET, VANCOUVER 1, B.C.

TELEPHONE: 685-0181

INVOICE # 1099

August 15, 1975.

Mr. J. P. Renaldi
 Houston Mining Ltd.
 c/o Uncle Ben's Industries
 950 Van Horne Road
 Richmond, B.C.

Re: Amendment and Up-dating of Geological Report
 on McConnell Creek Copper Property

Professional Services-R.W. Phendler, P. Eng.
 2 days @ \$100 per day \$200.00

Recoverable Expenses

Global Draughting	\$27.42	
Typing of Report-4 hours @ \$7.00/hour	28.00	
Xerox 72 pages @ 15¢ sheet	10.80	
Materials 5 covers, backs @ \$1.00	5.00	
	<u>\$71.22</u>	
+ 5% on services and administration	3.56	\$ 74.78
TOTAL		<u>\$274.78</u>

Please remit this amount

Ben Ginter Construction Co. Ltd.

GENERAL CONTRACTORS

TELEX 047-8737

1633 FIRST AVENUE PRINCE GEORGE, B.C.

TELEPHONE 563-0171

SOLD TO

Houston Mining Ltd.
1633 First Avenue
Prince George, B.C.

DATE: September 22, 1975

Re: McConnell Lake Mining Claims

Preliminary Work - McConnell Lake by 4 wheel
drive transport, equipment and prepare camp

1 man - 6 days	\$	480.00
Board - 6 days @ \$25.00		150.00
Miscellaneous expenses		135.00
Transportation - 4 wheel drive 3/4 ton (6 days)		527.50

Drilling Program		
Transportation (air)		970.00
3 men - 4 days @ \$50.00 per day		600.00
Board @ \$25.00 per day		300.00
Miscellaneous supplies and expenses		103.95
Powder caps + 20% handling		47.25
	20%	9.45

Truck Rental		
3/4 ton Crew Cab - 8 days		475.00
Drilling Equipment		540.00
Steel		175.00
Miscellaneous		135.00

\$ 4,648.15

10% Head Office Overhead		464.82
Engineers Report		274.78

TOTAL \$ 5,387.75

DRILLING REPORT

Crew was mobilized on August 3 and 4, 1975.

Equipment transported to campsite at McConnell Creek.

Clean up access roads.

Establish 2 drill sites approximately 200" east of McConnell and north of "B" Zone referred by Mr. R.W. Phendler, P. Eng. in his report (enclosed herewith: pages 8 and 9 refer).

Selected two areas of interest noted on Fig. 5 as Lower Zone and Upper Zone.

Lower Zone: Drilled three holes to a depth of 10'. Blasted and systematically sampled over a width of about 12'.

<u>Sample No.</u>	<u>Width</u>	<u>% Cu.</u>	<u>Oz. Au.</u>	<u>Oz. Ag.</u>
001AA	12'	10.97	0.136	2.12

Very little overburden - well mineralized.

Upper Zone: Drilled four holes to a depth of 10'. Blasted and systematically sampled over a width of 15'.

<u>Sample No.</u>	<u>Width</u>	<u>% Cu.</u>	<u>Oz. Au.</u>	<u>Oz. Ag.</u>
002AA	15'	14.02	0.052	1.36

Overburden light. Well mineralized.

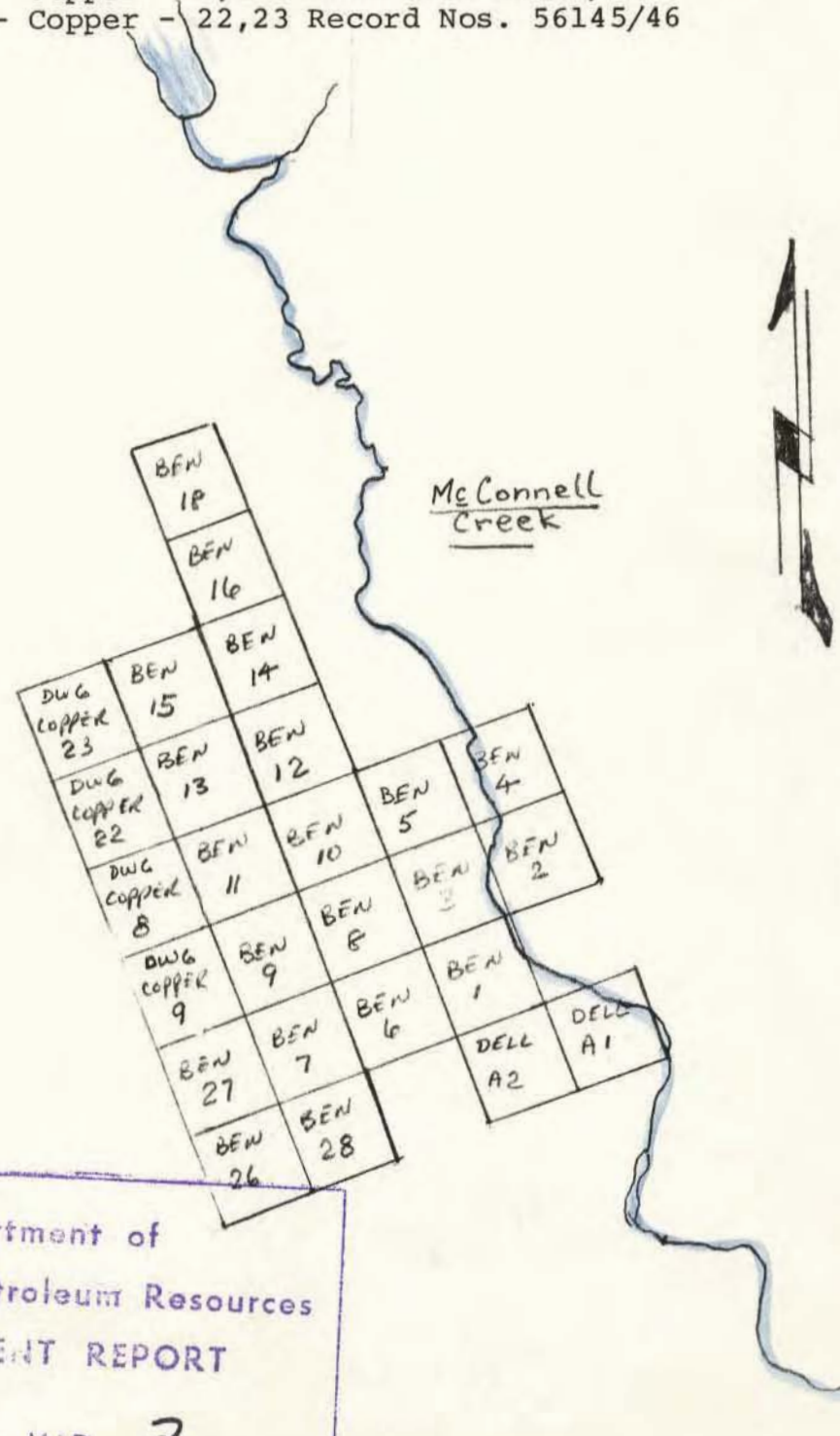
Mr. Phendler's report adequately covers the geology and mineralization of the immediate area.

HOUSTON MINING LTD.

CLAIM MAP

McCONNELL CREEK COPPER PROSPECT
OMINECA MINING DIVISION B.C.

DELL A1, A2 - Record Nos. 56129/30
BEN 1 - 14 incl. Record Nos. 54614/27
BEN 15,16,18,26,27,28 Record Nos. 54628-29 54631 54639-41
DWG - Copper - 8,9 Record Nos. 56131/32
DWG - Copper - 22,23 Record Nos. 56145/46



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5744 MAP 2

AUGUST, 1975

HOUSTON MINING LTD.
CLAIM MAP

McConnell
Lakes

McCONNELL CREEK COPPER PROSPECT
OMINECA MINING DIVISION B.C.

DELL A1, A2 - Record Nos. 56129/30
BEN 1-14 incl. Record Nos. 54614/27
BEN 15,16,18,26,27,28 Record Nos.
54628-29 54631 54639-41
DWG-Copper-8,9 Record Nos. 56131/32
DWG-Copper-22,23 Record Nos. 56145/46

AUGUST, 1975

SCALE 1" = 3000'

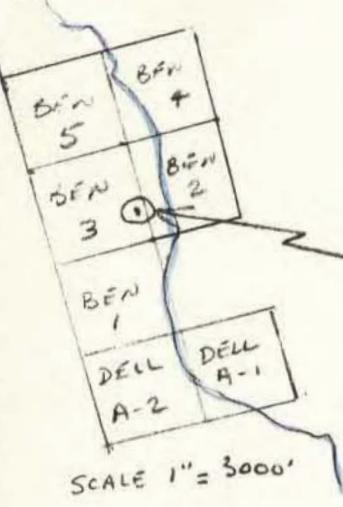


5744

M-3

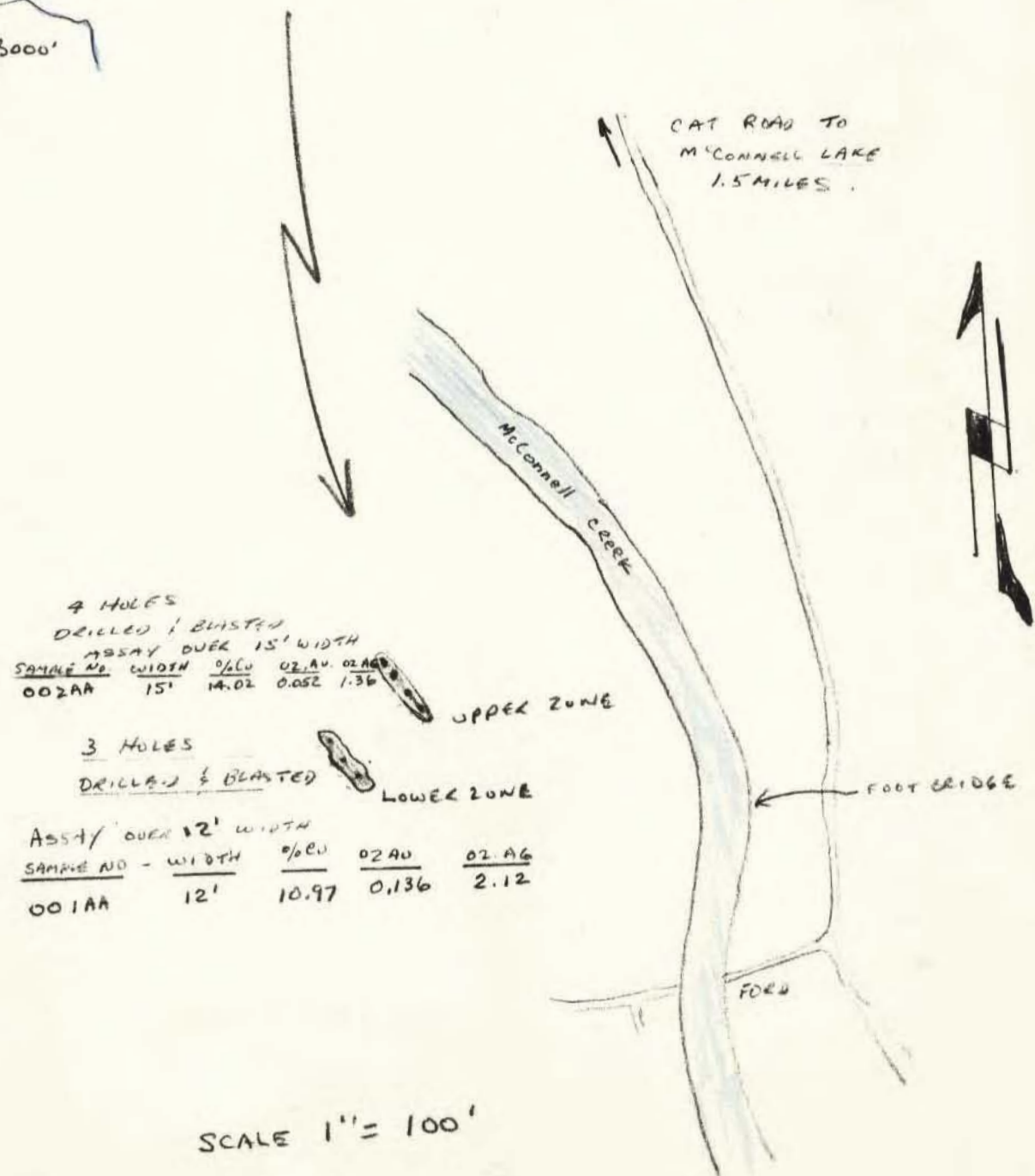


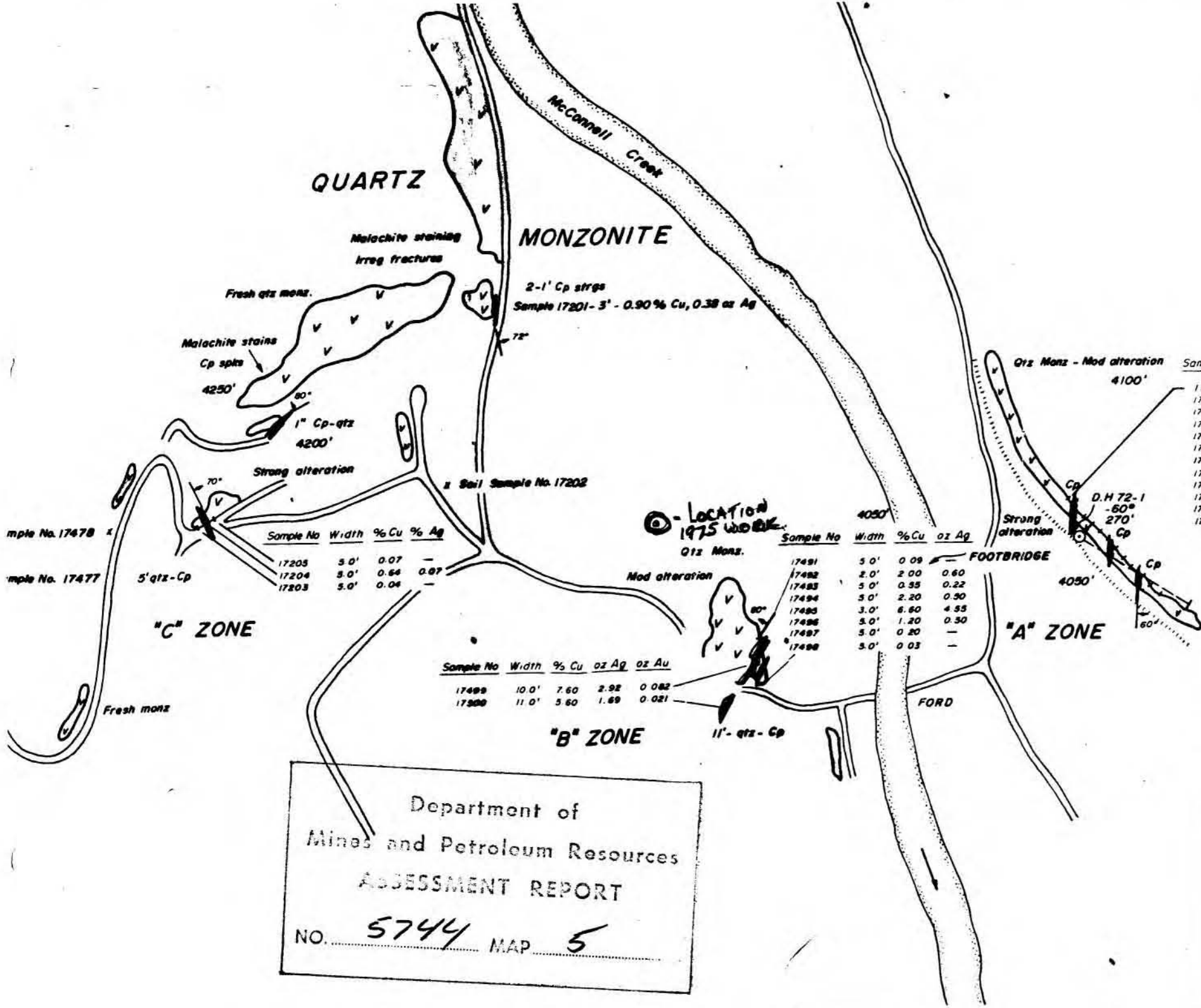
HOUSTON MINING LTD.
MCCONNELL CREEK COPPER PROJECT
OMINECA MINING DISTRICT, B.C.
LOCATION OF DRILLING WORK AUGUST, 1975



LOCATION OF
1975 WORK

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5744 MAP 4





Sample No. 17478
Sample No. 17477

Sample No	Width	% Cu	% Ag
17205	5.0'	0.07	-
17204	5.0'	0.64	0.07
17203	5.0'	0.04	-

Sample No	Width	% Cu	oz Ag	oz Au
17499	10.0'	7.60	2.92	0.082
17500	11.0'	5.60	1.69	0.021

Sample No	Width	% Cu	oz Ag
17491	5.0'	0.09	-
17492	2.0'	2.00	0.60
17493	5.0'	0.55	0.22
17494	5.0'	2.20	0.90
17495	3.0'	6.60	4.55
17496	5.0'	1.20	0.30
17497	5.0'	0.20	-
17498	5.0'	0.03	-

Sample No	Width	% Cu	oz Ag
17490	10.0'	0.94	-
17489	10.0'	0.01	-
17488	10.0'	0.01	-
17487	10.0'	0.01	-
17486	10.0'	0.01	-
17485	10.0'	-0.01	-
17484	10.0'	0.01	-
17483	10.0'	0.05	-
17482	5.0'	2.40	0.64
17481	5.0'	0.17	0.10
17480	10.0'	-0.01	-
17479	10.0'	-0.01	-

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5744 MAP 5

R. W. Phendler P. Eng.
PROFESSIONAL
ENGINEER
BRITISH COLUMBIA

HOUSTON MINING LTD.

GEOLOGICAL MAP
OF
McCONNELL CREEK

COPPER PROSPECT
OMINECA MINING DIVISION B.C.

Scale - 1" = 100' July 1975

R. W. Phendler P. Eng.
CANNON - HICKS ASSOCIATES LTD.

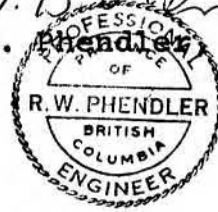
Grand Total

\$49,450.00

Respectfully submitted,

CANNON-HICKS ASSOCIATES LTD.

R. W. Phendler P. Eng.
R.W. Phendler, B.Sc., P. Eng.



August 8, 1975

GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
 PHONE (604) 254-1847 TELEX 04-507514 CABLE SUPERVISE



TO:
McCONNELL PEEL RESOURCES LTD.,
 750 Van Horne Way,
 Richmond, B.C.

CERTIFICATE OF ASSAY

No.: 7510-0855 DATE: Oct. 16, 1975

We hereby certify that the following are the results of assays on: **Ore**

MARKED	GOLD	SILVER	Copper					
	GRAMS OZ/ST	GRAMS OZ/ST	(Cu) %					
001AA	0.136	2.12	10.97					
002AA	0.052	1.36	14.02					

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

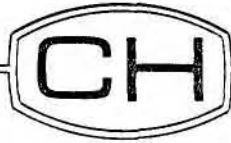
ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

L. Wong

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association
 REFEREE AND OR OFFICIAL CHEMISTS FOR Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society
 OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade • Vancouver Merchants Exchange



CANNON-HICKS ASSOCIATES LTD.
SUITE 604-744 WEST HASTINGS ST.
VANCOUVER 1, B.C.

SUMMARY REPORT

ON THE

McCONNELL CREEK PROPERTY

OMINECA MINING DIVISION

FOR

HOUSTON MINING LIMITED

BY

R.W. PHENDLER, P. ENG.

Vancouver, Canada

August 7, 1975



LOCATION MAP - CENTRAL BRITISH COLUMBIA

SCALE 1" = 34 MILES

5744 M6

BRITISH COLUMBIA MINING RECEIPT

Mining Division Amneca

Issued at Vancouver, B.C. No 101186 E

Date Sept. 22, 1975

RECEIVED from Houston Mining Ltd

the sum of Four Hundred & fifty - ⁰⁰/₁₀₀ Dollars,

in payment of re-sounding Mc Connell Creek Copper
Prospect Group (26 clms) plus 1 yr work to
apply to each of: Dell A1, A2, Ben 1-16,
18, 26-28, D & S Copper 8, 9, 22 23 clms,
plus ⁶⁰/₁₀₀ penalties. (D. Drilling)

Signature A. J. J. J. J.

\$ 450⁰⁰

Office Sub-mining Recorder

CONTENTS

	<u>PAGE</u>
PART "A"	
SUMMARY AND CONCLUSIONS	1
RECOMMENDATIONS	2
COST ESTIMATE	2
PART "B"	
INTRODUCTION	4
LOCATION AND ACCESS	4
PROPERTY AND OWNERSHIP	5
HISTORY	5
GEOLOGY AND MINERALIZATION	7
COMMENT	10
CERTIFICATION	11

ILLUSTRATIONS

Fig 1) LOCATION MAP - 1" = 34 Miles

Fig 2) MAP OF SHOWINGS - 1" = 100'

PART "A"SUMMARY AND CONCLUSIONS

The McConnell Creek copper prospect lies at an elevation of 4000' in the Omineca Mountains about 250 miles northwest of Prince George in central British Columbia.

For many years the area has been actively explored for gold placers and it was only in 1966 that the spectacular chalcopyrite showings were discovered on McConnell Creek. In the past few years extensive exploration work has been carried out along the western edge of the Omineca intrusive belt, in which lie the prospect under discussion and numerous new discoveries.

The McConnell Creek showings are composed of chalcopyrite veins, the widest of which is eleven feet (5.60%Cu, 1.69 oz Ag) randomly distributed throughout a highly fractured and intensely altered zone within medium grained quartz monzonite. This zone of alteration and mineralization measures 800' by 300' but all outcrops within this area do not show evidence of mineralization.

The "B" or principal zone is centered within the 800' X 300' zone and the most intensely mineralized zone assays 2.12% Cu and 1.05 oz Ag across 20.0'

Induced polarization carried out in 1969 gave somewhat disappointing results on widely spaced grid lines, although a small anomaly of moderate chargeability over the "B" zone was found. Diamond drilling on the rather poor

"A" zone in 1972 showed chalcopyrite mineralization in the 270' No 1 hole, which apparently was not sampled.

It appears that the prospect has been poorly tested to date and additional exploration is warranted. The limited number of exposures (outcrops) over an appreciable area suggests that the ground between the known occurrences may also be mineralized.

RECOMMENDATIONS

It is recommended that:

- 1) A geochemical survey over the central area of interest be conducted.
- 2) In conjunction with the above, diamond drilling of the moderate induced polarization anomaly under zone "B" be carried out.
- 3) The claim group be reduced.
- 4) The sum of \$50,000 should be provided to carry out the above program.

COST ESTIMATE

1) Geochemical Survey	\$ 2,000.00	
2) Sample Determination	1,000.00	
3) Transportation	3,500.00	
4) Diamond Drilling	32,000.00	
2000' X \$16per foot		
5) Assaying of Core Samples	1,500.00	
6) Engineering and Geology	<u>3,000.00</u>	
Total		\$43,000.00
15% Contingencies		<u>6,450.00</u>

PART "B"

INTRODUCTION

At the request of Mr. J.P. Renaldi of Houston Mining Limited, the writer undertook to compile all data relating to work undertaken on the McConnell Creek copper prospect including work prior to and after his examination of the property from August 8th to 10th, 1969.

The writer was accompanied during his examination by Mr. L. Teed of Midwest Diamond Drilling Ltd. and Mr. D. Faulkner, bulldozer operator and during the examination he took 29 chip and geochemical samples on and around the mineral showings.

LOCATION AND ACCESS

The McConnell Creek copper prospect lies at an elevation of 4000 feet and is located 250 miles northwest of Prince George in the Omineca Mining Division of north central British Columbia. Distance northeast of Smithers is about 170 miles and at present the easiest access is by float plane from this town or Prince George. The showings are one and a half miles south of McConnell Lake close to McConnell Creek, which does not drain the lake but flows southward from a source northwest of the area under discussion.

A bulldozer road links a well-equipped cabin at the south end of McConnell Lake with the property.

Since 1973 a four-wheel-drive road has existed

from Fort St. James and Germansen Landing to Johanson Lake, which is located 23 air miles southeast of the property. The distance from Fort St. James is about 200 miles and 12 hours are required for the trip. An airstrip exists at Johanson Lake, where during the summer of 1975 the Geological Survey of Canada and British Petroleum Corporation have established exploration crews. Helicopters for charter are occasionally available at Johanson Lake and fixed wing aircraft are available in Smithers or Prince George.

Topography on the property is relatively gentle. Ample water for exploration purposes is available while little good timber exists.

PROPERTY AND OWNERSHIP

The property is reported to consist of 65 mineral claims and although a claim search was not made, it is believed that the claims are held by Houston Mining Ltd.

HISTORY

Mining interest in the area dates from 1899 when placer gold was discovered at the junction of McConnell Creek and the Ingenika River. Other placer deposits were discovered a few miles upstream in 1906 and this created a rush to the area in 1907 and 1908. A second small influx of gold prospectors occurred in 1932 but little of value was found. The King George lode showing near the present scene of interest was discovered at this time and turned out to be principally pyrite and quartz.

The McConnell Creek copper prospect was discovered in 1966 by prospectors Delma Dionne and Frank Weitzel, who were employed by Mr. B. Ginter of Prince George. Staking of the ground took place in 1967 and subsequent bulldozer trenching exposed three chalcopyrite showings. Cordilleran Explorations Corporation carried out minor exploratory work in that year.

In 1968 Velocity Surveys Limited of Vancouver carried out geological studies, line cutting and bulldozer trenching. A reconnaissance electromagnetic survey was performed by Mr. S. Romani. The results failed to show linear extensions of the mineralization but this type of geophysical exploration is only suitable for detecting continuous conductors whereas the mineralization under discussion consists of discontinuous zones and fracture fillings randomly distributed throughout a broad area of alteration.

In 1969 the writer made a short examination recommending an induced polarization survey and follow-up diamond drilling. Reconnaissance induced polarization work (on 400 foot spaced lines) was carried out by Geo-X Surveys Ltd. of Vancouver. Higher than normal chargeability readings were found to exist in the area of the principal showings ("A" and "B" zones). Three days were spent on the property and 6700 feet of grid lines were marked and surveyed by the Geo-X crew.

In 1972 a limited diamond drilling program was carried out by Mr. G. Gowland. The first hole (72-1) was drilled at - 60° in a southeasterly direction for 270' on the "A" zone and visual description by the drillers is as

follows:

0 - 11' - overburden
26.5' - 1" chalcopryrite
88.0'- 88.5' - chalcopryrite
171.0'- 173.5 - chalcopryrite vein

Hole 72-2 was collared 170' southeast of D.H. 72-1 and was drilled at - 60° due north (parallel to the mineral bands). It was abandoned at 34'. Zone "A", under which the drilling was carried out, is one of the poorer zones on the property.

In 1974 Mr. J. Caufield prospected the claims and it is reported that he discovered some "rich samples on top of the hill where no excavation work existed".

In the last few years extensive exploration has been carried out in the Sustad Peak area where numerous occurrences of strata-bound copper mineralization within volcanic rocks were discovered. Exploration work in the area is continuing.

GEOLOGY AND MINERALIZATION

The chalcopryrite showing on the McConnell Creek prospect occur within homogeneous quartz monzonite exhibiting varying degrees of hydrothermal alteration. These granitic rocks intrude volcanic formations of Triassic age and the mineralization is apparently spatially related to one such intrusive contact about half a mile to the northeast of the showings. The volcanic rocks are reported to be intermediate flows (andesites) and associated pyroclas-

tics.

The chalcopyrite is associated with white quartz veins which strike a few degrees east or west of north. No individual veins have been exposed for more than 50 feet along strike.

The mineralization is randomly distributed over an oval-shaped area measuring 800' by 300' with an easterly-trending major axis. Throughout the area are erratically developed zones of intense sericitization and kaolinization and associated fracturing.

The principal showing ("B" Zone) which lies on the west bank of McConnell Creek consists of a spectacular chalcopyrite vein that is from five to eleven feet wide and can be followed for 50 feet along strike. In the footwall is an additional fifteen feet of fractured ground with abundant quartz and chalcopyrite.

Samples taken from the "B" zone by the writer during his 1969 examination are as follows:

<u>Sample No</u>	<u>Width</u>	<u>% Cu</u>	<u>oz Ag</u>	<u>oz Au</u>
17491	5.0'	0.09	0.09	0.09
17492	2.0'	2.00	0.60	0.60
17493	5.0'	0.55	0.22	0.22
17494	5.0'	2.20	0.50	0.50
17495	3.0'	6.60	4.55	4.55
17496	5.0'	1.20	0.50	0.50
17497	5.0'	0.20	0.20	0.20
17498	5.0'	0.03	0.03	0.03
17499	10.0'	7.60	2.92	0.082
17500	11.0'	5.60	1.69	0.021

Samples 17492 to 17496 were taken consecutively across a freshly exposed face and average 2.12% Cu and 1.05 oz Ag across 20.0'. Samples 17499 and 17500 were taken thirty and fifty feet to the south.

The "A" Zone is 300 feet east of the "B" zone and samples taken along 110 feet of the water-filled trench are as follows:

<u>Sample No</u>	<u>Width</u>	<u>% Cu</u>
17479	10.0'	less than 0.01
17480	10.0'	less than 0.01
17481	5.0'	0.17
17482	5.0'	2.40
17483	10.0	0.05
17484	10.0'	0.01
17485	10.0'	less than 0.01
17486	10.0'	0.01
17487	10.0'	0.01
17488	10.0'	0.01
17489	10.0'	0.01
17490	10.0'	0.94

The "C" Zone lies 400' - 500' west of the "B" Zone and is composed of narrow scattered chalcopyrite stringers occurring over 300 feet.

Samples taken are as follows:

<u>Sample No</u>	<u>Width</u>	<u>% Cu</u>	<u>oz Ag</u>
17201	3.0	0.90	0.38
17203	5.0	0.04	0.04
17204	5.0	0.64	0.07
17205	5.0	0.04	0.04

Three soil samples were taken as follows:

<u>Sample No</u>	<u>ppmCu</u>	<u>Location</u>
17202	184	Between C and B Zones
17477	74	200' upslope of C Zone
17478	40	100' upslope of C Zone

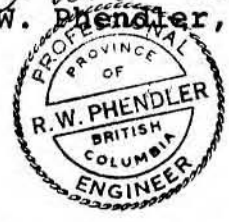
Sample 17202 contains anomalous copper.

COMMENT

Little systematic exploration work has been carried out on the McConnell Creek prospect but sufficient showings exists to suggest that a large low grade copper deposit may be present. The 800' by 300' zone, within which the mineralization occurs, warrants closely spaced geochemical sampling and limited diamond drilling should be carried out on the "B" Zone.

Respectfully submitted

R. W. Phendler, P. Eng.
 R.W. Phendler, B.Sc., P. Eng.



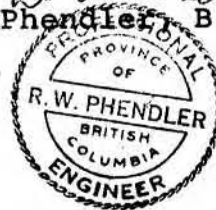
August 9, 1975

CERTIFICATION

I Roy William Phendler of 6175 Granville, Vancouver in the province of British Columbia hereby certify as follows:

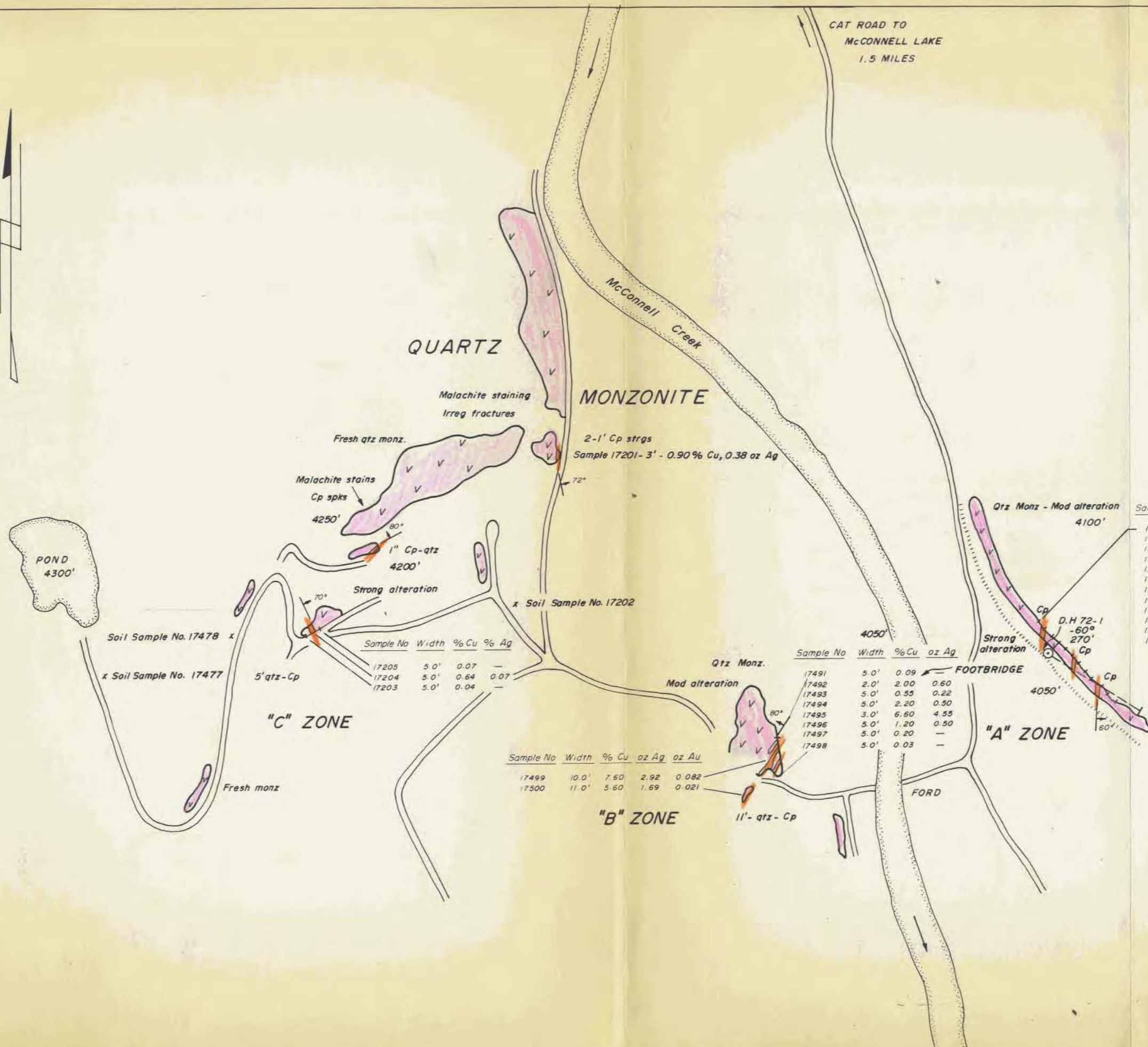
- 1) That I am a registered Professional Engineer in the Province of British Columbia, No. 4421.
- 2) That I am a graduate of McGill University, Montreal, Quebec with a Bachelor of Science degree in geology.
- 3) That I have practiced my profession as geologist continuously for the past 23 years in all parts of Canada, in the U.S.A., Mexico, Peru, Colombia and Chile.
- 4) I have not received nor do I expect to receive any interest directly or indirectly in the McConnell Creek property nor do I own or intend to own directly or indirectly any shares of Houston Mining Ltd.
- 5) That the information contained herein was compiled as a result of my examination of the property on August 8 - 10, 1969 and a study of reports on work carried out since that time.

R. W. Phendler, P. Eng.
R.W. Phendler, B.Sc., P. Eng.



August 9, 1975

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5744 MAP 7



Sample No	Width	% Cu	% Ag
17205	5.0'	0.07	—
17204	5.0'	0.64	0.07
17203	5.0'	0.04	—

Sample No	Width	% Cu	oz Ag	oz Au
17499	10.0'	7.50	2.92	0.082
17500	11.0'	5.60	1.69	0.021

Sample No	Width	% Cu	oz Ag
17491	5.0'	0.09	—
17492	2.0'	2.00	0.60
17493	5.0'	0.55	0.22
17494	5.0'	2.20	0.50
17495	3.0'	6.60	4.55
17496	5.0'	1.20	0.50
17497	5.0'	0.20	—
17498	5.0'	0.03	—

Sample No	Width	% Cu	oz Ag
17490	10.0'	0.94	—
17489	10.0'	0.01	—
17488	10.0'	0.01	—
17487	10.0'	0.01	—
17486	10.0'	0.01	—
17485	10.0'	0.01	—
17484	10.0'	0.01	—
17483	10.0'	0.05	—
17482	5.0'	2.40	0.64
17481	5.0'	0.17	0.10
17480	10.0'	0.01	—
17479	10.0'	0.01	—

R. W. Phendler P. Eng.
 R. W. PHENDLER
 PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA

HOUSTON MINING LTD.
 GEOLOGICAL MAP
 OF
 McCONNELL CREEK
 COPPER PROSPECT
 OMINECA MINING DIVISION B.C.
 Scale - 1" = 100' July 1975
 R. W. Phendler P. Eng.
 CANNON - HICKS ASSOCIATES LTD.