

MAP NO.: ASSESSMENT REPORT X
105 D 3 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092985
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: EVALUATION

REPORT FILED UNDER: MERLIN RESOURCES LIMITED

DATE PERFORMED: NOVEMBER, 1991

DATE FILED: NOVEMBER 21, 1991

LOCATION: LAT.: 60°15'N

AREA: WHEATON RIVER

LONG.: 135°03'W

VALUE \$: 1,200

CLAIM NAME & NO.: RATH 1-12

WORK DONE BY: PAUL PLICKA

WORK DONE FOR: MERLIN RESOURCES LIMITED

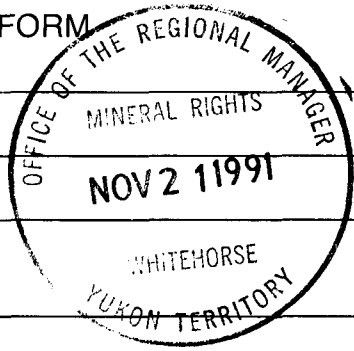
DATE TO GOOD STANDING:

REMARKS: MR PLICKA HAS SUMMARIZED THE REGIONAL GEOLOGY, LOCAL GEOLOGY AND POTENTIAL OF THE RATH PROPERTY. THERE IS NO OUTCROP ON THE PROPERTY AND POTENTIAL MINERALIZATION IS INFERRED FROM THE NEIGHBOURING ACADEMY RESOURCES PROPERTY. VEINS CONTAINING AU AND AG VALUES ARE BEING SOUGHT.



TRANSMITTAL FORM

M.R. file no.
R.M.R. file no.
Date forwarded 21 Nov 1991



From Mining Recorder at: Whitehorse

To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <u>RATH 1-12</u>	Claim sheet no. <u>105-D-6/7</u>
	Type of report <u>Geological</u>	Submitted by <u>Merlin Resources</u>
	Cl. work performed on <u>RATH 1-12</u>	\$ req. for ren. application <u>1200.00</u>

* NOTED DEFICIENCIES - DETAILS OF WORK DONE. - STATEMENT OF COSTS FORWARDED DONE.

[Handwritten Signature]
Signature

REPLY ACTION Date returned

092985

Signature

Talked to Mr. Lilly
at 2:54 on Jan 15/91
asked for Statement of
eligible costs.



Ticker Symbol GCM

Great Central Mines Ltd.

1216 - 1030 West Georgia St., Vancouver, B.C. V6E 2Y3 (604) 688-8289 - Facsimile (604) 688-8166

TELECOPIER TRANSMITTAL

DATE: February 14th, 1992

TO: Mr. Denis Oulette, Department of Northern Affairs

COMPANY: _____

FAX #: (403) 668-2176

C.C.: _____

FROM: Paul Plicka, Consulting Geologist/Merlin Resources Ltd.

SUBJECT: Mt. Wheaton Claims, Y.T. Expenditures

NUMBER OF PAGES INCLUDING THIS TRANSMITTAL PAGE: 2

_____ FOR YOUR FILES

X _____ FOR YOUR INFORMATION

_____ PER YOUR REQUEST

MESSAGE: I trust the attached information is sufficient for the Assessment Credits. The three days were spent on the Rath Claims in the Y.T.

For further information please contact me at 688-8289.

Thank you.

IF YOU ARE NOT RECEIVING A CLEAR COPY PLEASE TELEPHONE
(604) 688-8289

STATEMENT OF EXPENDITURES RE VISIT TO THE MOUNT WHEATON AREA CLAIMS (Y.T.)
FOR MERLIN RESOURCES LTD., September, 1991

FOOD \$45/per day - 3 days	\$ 135.00
Lodging \$20/per day - 3 days	60.00
Truck \$70/per day - 3 days	210.00
Gasoline	180.00
Geological fees	<u>900.00</u>
	<u>\$ 1,485.00</u>



PAUL PLICKA
Consulting Geologist

February 14th, 1992

CAPSULE GEOLOGY

The early work located a quartz vein with galena and chalcopyrite in a shaft on the MacDonald Fraction on the west side of the summit. Samples collected by the GSC in 1915 assayed less than 1.7 g/t in Au and Ag combined. A similar vein containing an irregular quartz lens up to 2.1 m wide and cutting greenstone was found on the Gopher claims. On the Silver Queen claim, at the north end of the summit, a 10 m quartz vein contains galena and pyrite. Sampling by Silver Pack ML gave assays of 28.8 g/t Au and 17.1 g/t Ag from a specimen from the Silver Queen Showing and 5.5 g/t Au and 435.5 g/t Ag from a specimen off the MacDonald Fraction shaft dump. The 1984-88 work was directed toward the Silver Queen Showing on Wheaton 5 and 6 claims. Several parallel veins from 0.2 to 4.3 m wide occur within a width of 50 m and are associated with Eocene rhyolite, andesite breccia and tuff that cuts Cretaceous granodiorite. The best assays obtained were 294.9 g/t Au and 143.9 g/t Ag from a specimen of quartz with minor chalcopyrite from the centre pit; 180.8 g/t Au and 185.1 g/t Ag from a specimen of float uphill from the south pit; and, 34.9 g/t Au and 37.9 g/t Ag across 3.1 m from Hole 87-2. Trenching in 1988 exposed a 13.2 m length of vein from which three large chip samples averaged 24.3 g/t Au and 37.7 g/t Ag. Reserves were calculated by Academy as 4,535 tonnes grading about 17.1 g/t Au and 34.3 g/t Ag. 1989 drillholes on the Wheaton claims intersected silicified, brecciated andesite and a 3.7 m zone of green chalcedony breccia containing fine-grained pyrite, pyrrhotite and galena. Samples of quartz vein material exposed in a bulldozer trench assayed up to 106.4 g/t Au over 0.8 m. On the adjoining Rath claims, mineralized quartz veins occur in andesite breccia, close to the faulted contact between granodiorite and a porphyry dyke. Havilah discovered a new vein cutting granodiorite on the Era cl in 1986. The vein strikes east-west, dips 25 to 80 degrees S and contains galena and pyrite with minor chalcopyrite and sphalerite. Specimens assayed up to 35.3 g/t Au and 6171 g/t Ag.



EVALUATION REPORT

ON THE

RATH CLAIMS

092985

YUKON TERRITORY

N.T.S. 105D/3

Latitude 60° 15'N

Longitude 135° 03'W

MERLIN RESOURCES LTD.



November 15th, 1991

Vancouver, B.C.

Paul Plicka, P.Geol.
Consulting Geologist

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 4,200.

for *D. J. Chubb*
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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INTRODUCTION

At the request of Mr. A. Lilly, President of Merlin Resources Ltd., the writer has examined the available data on the Rath Claims located in the Mt. Wheaton area, Yukon Territory. The writer also visited the property during the month of September, 1991.

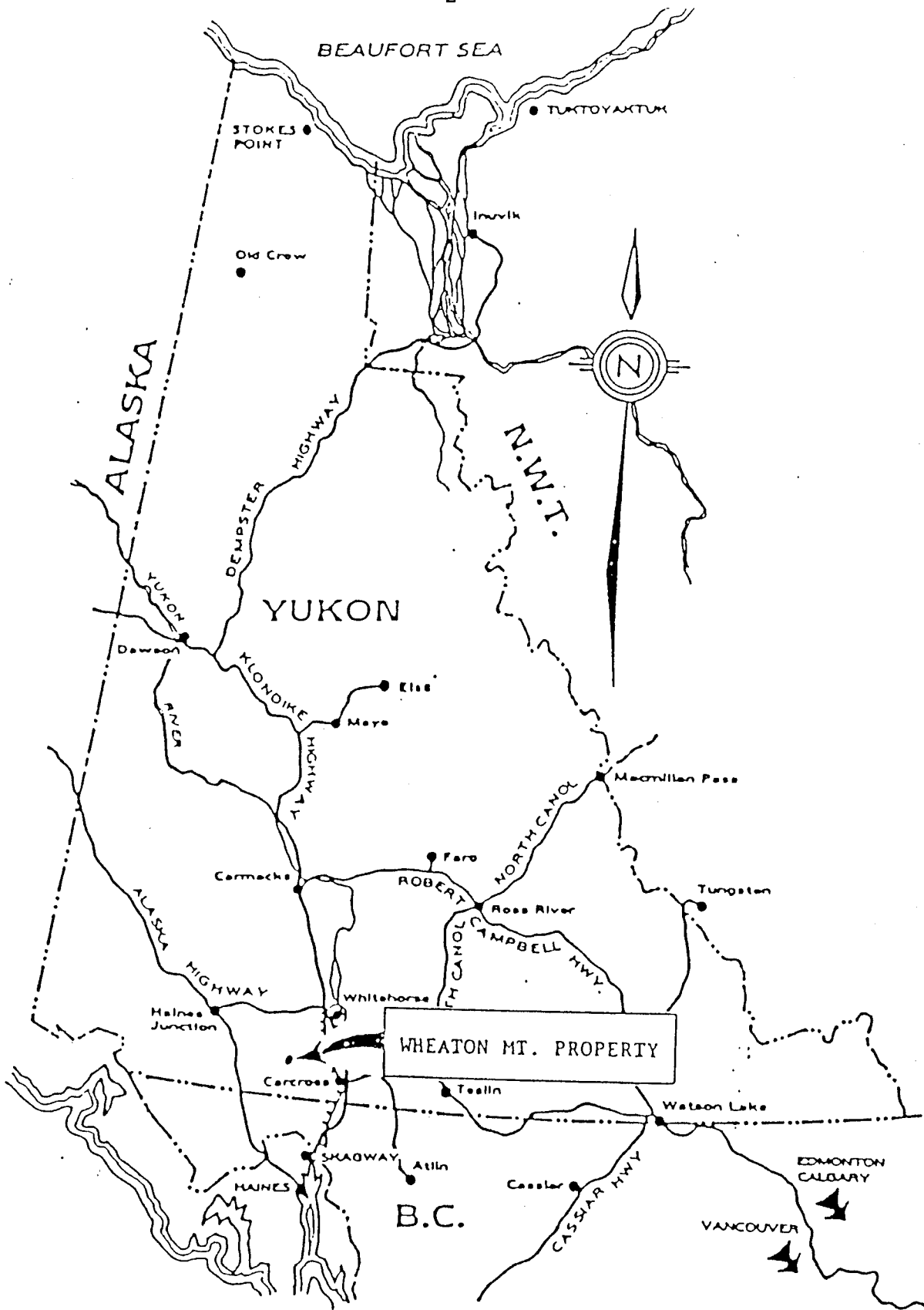
Merlin Resources Ltd. is the owner of twelve (12) contiguous claims adjacent to those owned by Academy Resources Ltd. Academy's property is in the advanced stages of development.

CLAIMS

<u>NAME OF CLAIMS</u>	<u>RECORD (TAG) NUMBERS</u>
RATH No. 1 to 12 incl.	YB 35427-YB 35438 incl.

LOCATION AND ACCESS

The Mt. Wheaton property is located on the south side of the Wheaton River Valley, approximately fifteen miles east of Mt. Skukum Gold Mine. The claims are accessible from Whitehorse, Yukon Territory, situated some 40 km to the north via the Alaska and Carcross Highways, both paved, and the Wheaton River all-season gravel road.



LOCATION MAP

Scale: 1 in = 90 miles

LOCATION AND ACCESS (continued)

The property is located on National Topographic Series Map Sheet 105D/3 at North Latitude $60^{\circ} 51'$ and West Longitude $135^{\circ} 03'$.

PHYSIOGRAPHY AND VEGETATION

Mt. Wheaton is located in the Coast Crystalline Complex on the east side of the Coast Range Mountains. The claim area covers an upland plateau featuring extensive talus fan. The surface is grassy with some short arctic birch and stunted willow in damp areas. Water sources are few and usually dried up by early July.

CLIMATE

The area is typical of the alpine regions in southwestern Yukon and features a dry sub-arctic climate. Average precipitation is 12 to 14 inches per year, with extreme winter temperatures to -45°C , and summer temperatures as high as $+25^{\circ}\text{C}$. The area can be expected to be snow-covered from late September until early June. High winds with rain and snow squalls are common.

EARLY HISTORY

In the staking rush of 1906 three claims, Silver Queen, Gopher and MacDonald Fraction) were located on the upland plateau of Wheaton Mountain. On the MacDonald Fraction, a six meter shaft was excavated on a 70cm wide quartz vein in granodiorite. Lenses of argentiferous galena from this vein was sampled by Silver Pack Mines Ltd. in 1966 and returned assays of 0.16 ounces Au/ton and 12.7 ounces Ag/ton.

EARLY HISTORY (continued)

On the Silver Queen claim, on the northern part of Mt. Wheaton, a one-meter wide quartz vein, exposed in old pits, was sampled by Silver Pack Mines Ltd. with reported assays of 0.84 ounces Au/ton and 0.5 ounces Ag/ton.

During 1984, exploration by the Wheaton Joint Venture Partners, consisted of reconnaissance level exploration over the claim area. The most promising showing, the Silver Queen, consisted of three old hand-dug pits on the Wheaton No. 5 and 6 claims. Selective grab samples from a 30-80cm wide quartz vein returned assays of up to 8.6 ounces Au/ton and 4.2 ounces Ag/ton. The vein(s) occur in Triassic andesite breccia in close proximity to the Skukum Group granitic porphyry and carbonate-rich blue-grey rhyolite dykes.

In 1985, a four-man field crew explored the upland surface of Mt. Wheaton in a program involving grid development, geological mapping, rock and soil geochemistry and limited bulldozer trenching. A three km four-wheel drive road was constructed up the south side of Wheaton Mountain by a D-6 bulldozer in late July 1985.

A 650-meter baseline, trending 330° , was established across the Wheaton No. 5 and 6 claims, with 4.5 km of crosslines at 50-meter centres. 220 soil samples and 18 rock samples were collected on the grid and analyzed for gold, silver and lead.

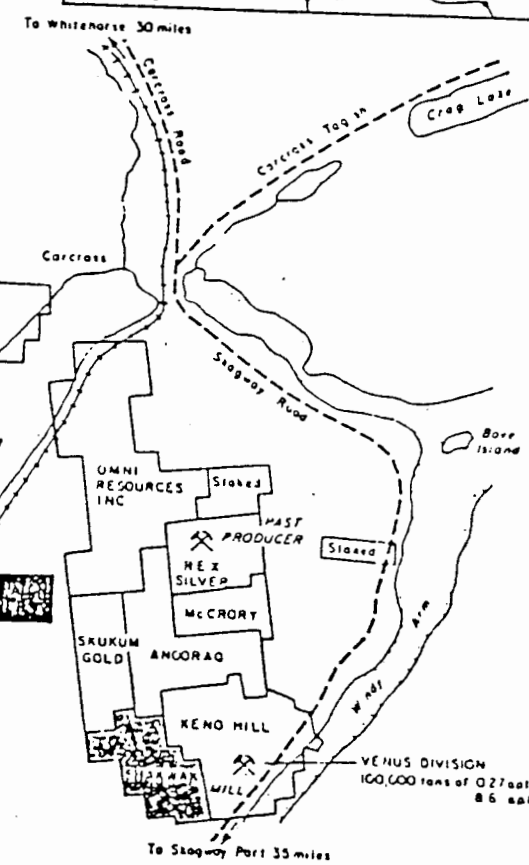
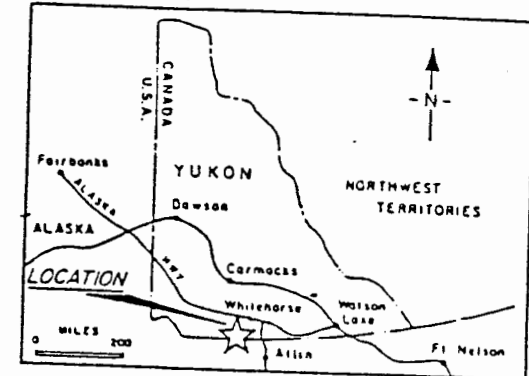
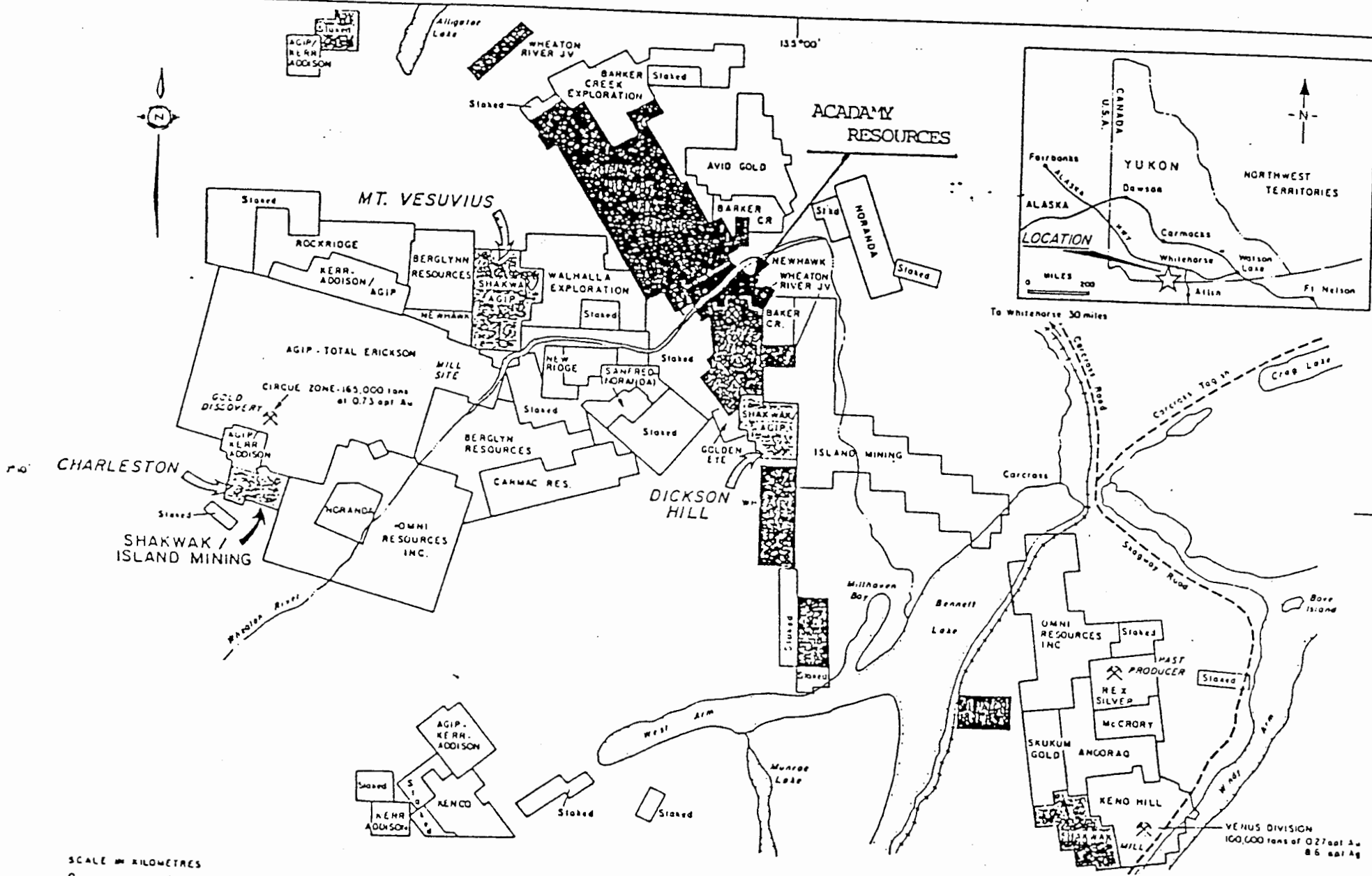
EARLY HISTORY (continued)

One trench was cut across the slope just below the old pits. Permafrost conditions in the trench floor prevented sufficient stripping to expose the quartz veins in outcrop. Trench samples were collected from broken rock and boulders.

GEOLOGY

Wheaton Mountain is primarily underlain by Cretaceous granodiorite of the Coast Plutonic Complex and, at the north end, Triassic lenses of the River Group metavolcanic rocks. Rhyolite and granitic porphyritic rocks and plugs of early Tertiary Skukum Group intrude the Mesozoic and Paleozoic rocks. The dykes and plugs occur around the periphery of the contemporaneous complexes of Mount Skukum, Mount Macauley and Montana Mountain.

Structurally, the area features regional faulting associated with Caldera Formation at Bennett Lake and Mount Skukum. A northwesterly-trending depression in the upland plateau at the north end of Wheaton Mountain probably traces a fault contact between granodiorite and Triassic andesite breccia. Mineralized quartz veins occur in the andesite breccia beside the fault contact and close to felsic porphyry dykes. Silica-rich fluids, generated in the later stages of early Tertiary volcanism, migrated along fault zones and precipitated in fractures and zones of weakness, especially near geological contacts.



WHEATON RIVER AREA

MINERALIZATION, ROCK GEOCHEMISTRY AND TRENCHING

Mineralized quartz veins on Wheaton Mountain occur in andesite breccia close to a fault contact with granodiorite and to a granite porphyry dyke. The quartz veins are up to two-meters wide and trend in a northerly direction. White to brownish sugary quartz contains masses of cubic galena and minor chalcopyrite. Irregular veins are best exposed in three old pits.

The mineralizing events on Wheaton Mountain are at present poorly understood. Gold and silver-bearing silica-rich fluids, generated during early Tertiary volcanism in the Wheaton District, have migrated into fault and fracture zones where crystallization occurred when fluid temperatures and pressures decreased.

PROPERTY GEOLOGY

The Rath claims, being located in a flat-lying terrain, no outcrops were found during the property examination. However, being very close to Academy Resources Ltd.'s property, where there is good exposure in northerly-trending vein system, there is no observable reason for this vein system to discontinue on the Rath Claims. Therefore, the following programme is recommended.

RECOMMENDED EXPLORATION PROGRAMME

PHASE ONE

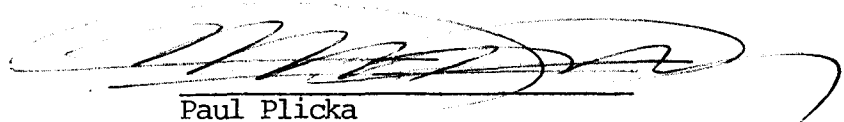
Establish a line grid using the claim line as a base line;
Cut perpendicular lines at 100m intervals;
Carry out VLF survey on the grid; and,
Carry out soil sampling.

COSTS OR EXPLORATION PROGRAMME - PHASE ONE

Baseline - 3km at \$500/km	\$ 1,500.00
Grid line - 30km at \$325/km	9,750.00
EM survey - 30km at \$200/km	6,000.00
Soil sampling at 25m stations	5,000.00
Assaying	6,500.00
Food and incidentals	1,500.00
Geologist - \$400/day (14 days)	5,600.00
Mobilization and demobilization	<u>7,000.00</u>
TOTAL PHASE ONE	<u><u>\$42,850.00</u></u>

Recommendations for Phase Two of the programme is predicated upon the results of Phase One.

Respectfully submitted,



Paul Plicka
Consulting Geologist

November, 1991
Vancouver, B.C.

BIBLIOGRAPHY

Bostock, H.S. (1938); Mining Industry of the Yukon, Canada. Department of Mines and Resources, Geological Survey, Memoir 220.

Cairns, D.D. (1912); Wheaton District, Yukon Territory, Canada. Department of Mines, Geological Survey, Memoir 31.

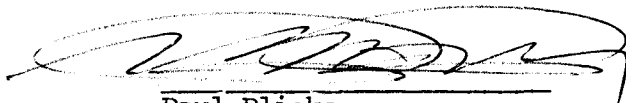
MacDonald, G. (1984); Geological, Geophysical, Geochemical and Trenching Summary Report on the Wheaton River Joint Venture. Private Report by G. MacDonald and Associates Ltd. Whitehorse, Yukon Territory.

McConnell, G.W. (1990); Evaluation Report on the Rath Claims, Yukon Territory.

CERTIFICATE

I, PAUL PLICKA, residing at Vancouver, British Columbia, hereby certify:

1. THAT I am a Consulting Geologist, having practised my profession for twenty-three years in Canada, Western United States and South America.
2. THAT I am a graduate of Prague Technical University with B.Sc. in Geology, 1966.
3. THAT I am a Fellow of the Geological Association of Canada since 1973.
4. THAT I have no interest either direct nor indirect, nor do I expect to receive any interest in the property described in this report.
5. This report has been prepared from Government Maps; private reports; personal knowledge of the area and a visit to the property during September, 1991.
6. I consent to the use of this report in a Prospectus or a Statement of Material Facts.



Paul Plicka,
Consulting Geologist

Dated at Vancouver, British Columbia, this 15th day of November, 1991.