5491

WHIPSAW CREEK PROPERTY

OF

92 H/7E

WHIPSAW MINES LTD. (NPL)

by

A. Gambardella

Feb. 19, 1975

NEWCONEX CANADIAN EXPLORATION LTD.

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INTRODUCTION

The Whipsaw Creek property is owned by Whipsaw Mines Ltd. (NPL) and comprises the following claims: MAE 1-21 inclusive, MAE 36-47 inclusive, MIKE 1 and MIKE 2. The property was examined by a 4-man crew of Newconex Canadian Exploration Ltd. from August 29 to August 31, 1974. The work consisted of geochemical soil, silt and rock sampling. The costs of the program are summarized in Appendix I.

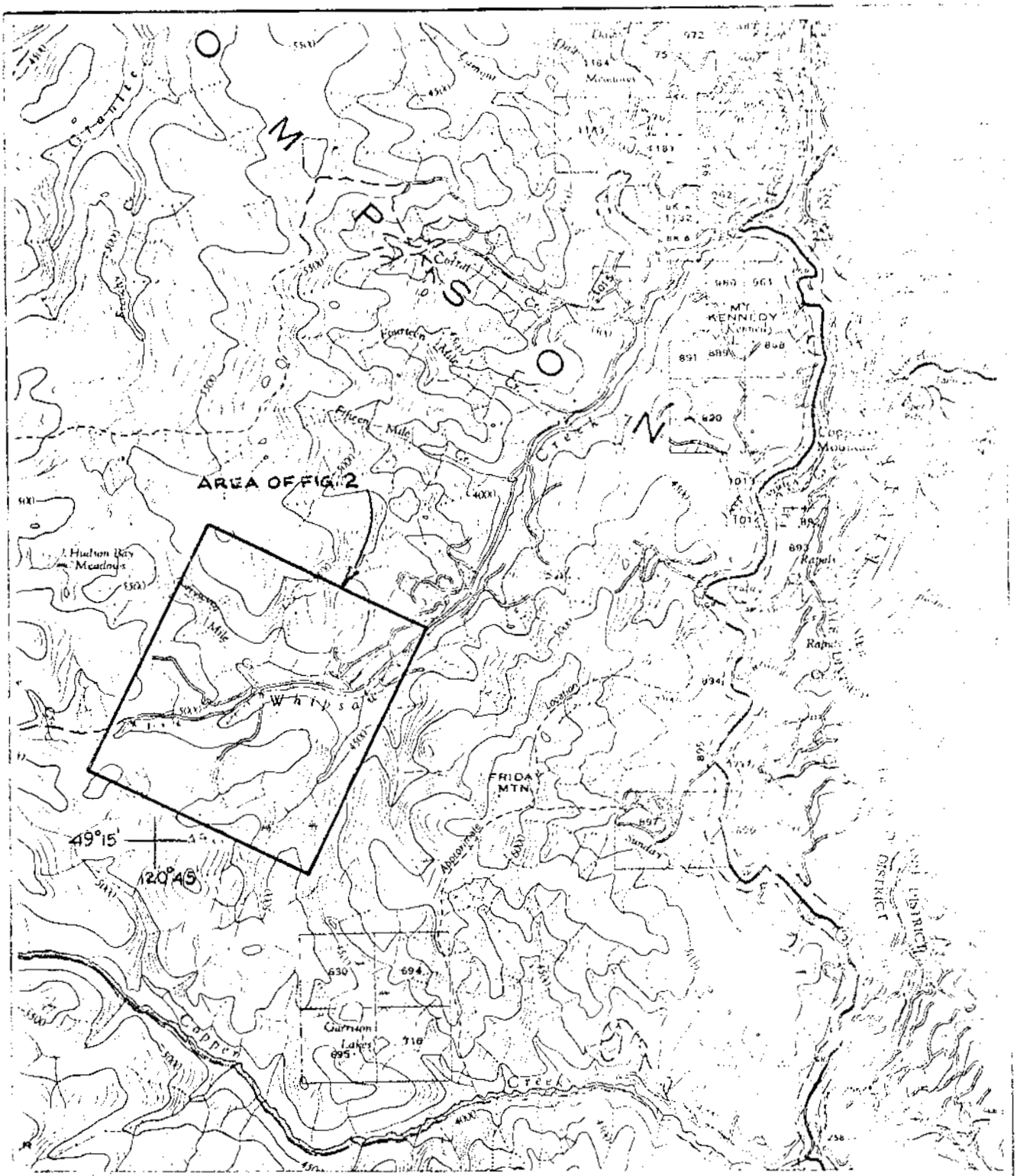
LOCATION AND ACCESS

The property is near the head of Whipsaw Creek at Latitude 49°16'N and Longitude 120°46'W. Access is from Princeton by 9 miles of paved road and then by 11 miles of gravel road. Elevations on the property range from 4000' to 5300'

GEOLOGY AND MINERALIZATION

The geology and the mineralization are described in detail in reports on the property by P. Anderson (1973) and by P. Anderson and R. B. Stokes (1970), and will be briefly summarized in this report.

The property is underlain by metavolanic and metasedimentary rocks of the Nicola Group. In the western part of the property, these rocks are intruded by a body of foliated granodiorite (the Eagle Granodiorite) and by a swarm of northwesterly-trending porphyritic dykes of Tertiary age.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 5491 MAP 1

NEWCONEX CANADIAN EXP... LTD.

WHIPSAW CREEK PROP...
WHIPSAW MINES LTD.
LOCATION MAP

FIG. 1	Scale = 2 MILES
Map by	Drft. A.G
To Accompany:	WHIPSAW ... PROPERTY RE...
Author: A. ...	

The mineralization occurs along two parallel north-northwesterly-trending fault zones 2500' apart. Both zones contain several showings (see Fig. 2) which have been explored by surface and underground workings. The mineralization consists of sphalerite, galena, pyrite and chalcopyrite in a gangue of quartz and carbonates. The width of mineralization in both structures is generally less than one foot. Locally, the mineralization extends for a distance of 10' from the walls of the veins, as fine disseminations and fracture fillings.

WORK DONE

The work consisted of geochemical soil, silt and rock sampling. Soil samples were collected along 2 lines in areas outlined by previous work as anomalous in copper. The samples were collected from the "B" horizon at a depth of 10-15 inches. The purpose of these samples was to test these areas for their gold and silver content. Silt samples were collected along Whipsaw Creek and rock samples were collected in several of the showings on the property.

A total of 45 geochemical soil, silt and rock samples and 11 assay samples were collected on the property. The samples were analyzed for gold and silver by Acme Analytical Laboratories Ltd. The sampling procedures and the sample preparation and analytical methods, are described in Appendix II. The sample locations are shown in Fig. 2, and the assay results are given in Appendix III.

CONCLUSIONS

The work was done to test the gold and silver content of several showings on the property and to test the area between two northwesterly-trending sturcutres for additional mineralization. The results obtained indicate that the gold content of the area sampled is very low.

P. W. Richardson

REFERENCES

Anderson, P., 1973: Geological Report, Whipsaw Mines Ltd. (NPL) Property, Panasco Research Ltd.

Anderson, P., and Stokes, R.B., 1970: Summary Geochemical and Geological Report on the Property of Whipsaw Mines Ltd. (NPL).

APPENDIX I

COSTS OF PROGRAM

PERSONNEL				
A. Gambardella	3 days	@	$60/day	$180
W. McDonagh	3 days	@	40/day	120
T. Segler	3 days	@	40/day	120
D. Richards	3 days	@	20/day	60
ROOM AND BOARD				
	12 man-days	@	20/day	240
GEOCHEMICAL SAMPLING				
	45 samples	@	3.60/sample	162
ASSAYS				
	11 samples	@	6.00/sample	66
TRANSPORATION				
One 4-wheel drive vehicle	3 days	@	20/day	60
MISCELLANEOUS				
Report writing, printing, typing				80
			Total	1,088

APPENDIX III

SEP 0 6 1974

TO Newconex Canadian
Exploration LTD.,
808-525 Seymour St.,
Vancouver, B. C. V6B 3H7

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
6455 Laurel St., Burnaby 2, B.C.

Tel: 299-5242

ANALYSES CERTIFICATE

File No. 3491
Type of Samples Rocks
Disposition 1 year

No.	Sample	Ag oz/ton	Au oz/ton						No.
1	6459	.03	.017	↑					1
2	6460	.01	.005						2
3	6461	.01	.004	WHIPSAW MINES					3
4	6462	.01	.004						4
5	6463	.02	.006						5
6	6464	.01	.003						6
7	6465	.03	.003						7
8	6466	.01	.002						8
9	6467	.01	.001	↓					9
10									10
11	6469	.37	.014						11
12	6470	9.24	.149						12
13	6471	.25	.005						13
14	6472	1.31	.019	↑					14
15	6473	.28	.014						15
16	6474	.08	.005	WHIPSAW MINES					16
17	6475	.52	.003						17
18	6476	.30	.006						18
19	6477	3.24	.033						19
20	6478	.19	.002	↓					20

All reports are the confidential property of clients.

DATE SAMPLES RECEIVED Aug. 29, 1974
DATE REPORTS MAILED Sept. 5, 1974
ANALYST Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

SAMPLE No.	ROCK TYPE, DESCRIPTION	ALTERATION		MINERALIZATION		ANALYSES
6459 – 6467 Incl.		TYPE	DEGREE			☐ ppm ☐ %
COLLECTED BY: A. Gambardella	The rock is sheared sericite-schist of the Nicola Group. Eight ten-foot samples and one eight-foot sample (continuous) taken along cat trench. The rock is mineralized with disseminated pyrite and cut by several NW-trending quartz veins, ¼" to 2" wide. The veins are barren	NIL ☐	W M S	Py ☑	Ag ☐	Cu
DATE: Aug 27/74		Prp ☐	☐ ☐ ☐	MoS_2 ☐	Au ☐	Mo
LOCATION		Arg ☑	☑ ☐ ☐	Cp ☐	Mag ☐	Au 0.005 oz/ton
UTM: 92H/7		Phi ☐	☐ ☐ ☐	Pb ☐	Hem ☐	Ag 0.015/oz/ton
AREA: PRINCETON		K ☐	☐ ☐ ☐	Zn ☐	W ☐	Pb
PROPERTY: WHIPSAW MINES		OTHER, REMARKS		OTHER(S), REMARKS: Pyrite largely oxidized to limon.		Zn OTHERS: –
SAMPLE SIZE LENGTH: 88' total PANEL: ___ x ___ GRAB SAMPLE: ☐						

SAMPLE No.	ROCK TYPE, DESCRIPTION	ALTERATION		MINERALIZATION		ANALYSES
6472		TYPE	DEGREE			☐ ppm ☐ %
COLLECTED BY: A. Gambardella	Sample of high grade material from dump of old working. The rock is a sericite schist mineralized with diss. pyrite and random veinlets of pyrite-sphalerite associated with quartz and carbonates.	NIL ☐	W M S	Py ☑	Ag ☐	Cu
DATE: Aug 29/74		Prp ☑	☐ ☑ ☐	MoS_2 ☐	Au ☐	Mo
LOCATION		Arg ☐	☐ ☐ ☐	Cp ☐	Mag ☐	Au 0.019 oz/ton
UTM: As above		Phi ☐	☐ ☐ ☐	Pb ☐	Hem ☐	Ag 1.31 oz/ton
AREA:		K ☐	☐ ☐ ☐	Zn ☑	W ☐	Pb
PROPERTY: As above		OTHER, REMARKS		OTHER(S), REMARKS		Zn OTHERS:
SAMPLE SIZE LENGTH: ___ PANEL: ___ x ___ GRAB SAMPLE: ☑						

SAMPLE No. 6473

COLLECTED BY: A. Gambardella
DATE: Aug 29/74
LOCATION
UTM: 92 H/7
AREA: Princeton
PROPERTY: Whipsaw Mines
SAMPLE SIZE
LENGTH: 3'
PANEL: x
GRAB SAMPLE: ☐

ROCK TYPE, DESCRIPTION

Metestoffer showing. Heavily oxidized fault in chlorite-schist. No fresh sulphides visible.

ALTERATION

TYPE	NIL	W	M	S
Prp	☐	☐	☐	☑
Arg	☐	☐	☐	☐
Phl	☐	☐	☐	☐
K	☐	☐	☐	☐

OTHER, REMARKS:

MINERALIZATION

Py	☐	Ag	☐
MoS_2	☐	Au	☐
Cp	☐	Mag	☐
Pb	☐	Hem	☐
Zn	☐	W	☐

OTHER(S), REMARKS: limonite stain

ANALYSES

☐ ppm ☐ %
Cu
Mo
Au 0.014 oz/ton
Ag 0.28 oz/ton
Pb
Zn
OTHERS:

SAMPLE No. 6474

COLLECTED BY: A. Gamberdella
DATE: Aug 29/74
LOCATION
UTM: As above
AREA:
PROPERTY: As above
SAMPLE SIZE
LENGTH: 5'
PANEL: x
GRAB SAMPLE: ☐

ROCK TYPE, DESCRIPTION

Foot-wall of Metestoffer showing. Disseminated pyrite, largely oxidized. Same rock as 6473 above.

ALTERATION

TYPE	NIL	W	M	S
Prp	☐	☐	☐	☐
Arg	☑	☑	☐	☐
Phl	☐	☐	☐	☐
K	☐	☐	☐	☐

OTHER, REMARKS:

MINERALIZATION

Py	☑	Ag	☐
MoS_2	☐	Au	☐
Cp	☐	Mag	☐
Pb	☐	Hem	☐
Zn	☐	W	☐

OTHER(S), REMARKS: limonite stain

ANALYSES

☐ ppm ☐ %
Cu
Mo
Au 0.005 oz/ton
Ag 0.08 oz/ton
Pb
Zn
OTHERS:

SAMPLE No. 6475

COLLECTED BY: A. Gamberdella
DATE: Aug. 29/74
LOCATION
UTM: As above
AREA:
PROPERTY: As above
SAMPLE SIZE
LENGTH: 5'
PANEL: x
GRAB SAMPLE: ☐

ROCK TYPE, DESCRIPTION

"W" showing. Sample taken at entrance of caved adit. Sericite schist with 3% diss. py. Rare barren qtz-vein 1/8"-1/4" wide.

ALTERATION

TYPE	NIL	W	M	S
Prp	☐	☐	☐	☐
Arg	☑	☑	☐	☐
Phl	☐	☐	☐	☐
K	☐	☐	☐	☐

OTHER, REMARKS:

MINERALIZATION

Py	☑	Ag	☐
MoS_2	☐	Au	☐
Cp	☐	Mag	☐
Pb	☐	Hem	☐
Zn	☐	W	☐

OTHER(S), REMARKS: limonite stain

ANALYSES

☐ ppm ☐ %
Cu
Mo
Au 0.003 oz/ton
Ag 0.62 oz/ton
Pb
Zn
OTHERS:

SAMPLE No. 6476

COLLECTED BY: A. Gambardella
DATE: Aug 29/74
LOCATION
UTM: as above
AREA:
PROPERTY: As above
SAMPLE SIZE
LENGTH: 30'
PANEL: x
GRAB SAMPLE: ☐

ROCK TYPE, DESCRIPTION

"W" showing. Adit 150' above that of sample 6475. Highly fractured chlorite-sericite schist. Quartz-pyrite veins 1/4" wide or less, randomly oriented. 2% diss py.

ALTERATION

TYPE	NIL	W	M	S
Prp	☑	☑	☐	☐
Arg	☐	☐	☐	☐
Phl	☐	☐	☐	☐
K	☐	☐	☐	☐

OTHER, REMARKS:

MINERALIZATION

Py	☑	Ag	☐
MoS_2	☐	Au	☐
Cp	☐	Mag	☐
Pb	☐	Hem	☐
Zn	☐	W	☐

OTHER(S), REMARKS:

ANALYSES

☐ ppm ☐ %
Cu
Mo
Au 0.006 oz/ton
Ag 0.30 oz/ton
Pb
Zn
OTHERS:

SAMPLE No. 6477

COLLECTED BY: A. Gambardella
DATE: Aug 29/74
LOCATION
UTM: As above
AREA:
PROPERTY: As above
SAMPLE SIZE
LENGTH:
PANEL: x
GRAB SAMPLE: ☑

ROCK TYPE, DESCRIPTION

"W" showing, upper adit. Grab sample of high grade from dump. Massive chalcopyrite and pyrite with fragments of altered schist.

ALTERATION

TYPE	NIL	W	M	S
Prp	☑	☐	☑	☐
Arg	☐	☐	☐	☐
Phl	☐	☐	☐	☐
K	☐	☐	☐	☐

OTHER, REMARKS:

MINERALIZATION

Py	☑	Ag	☐
MoS_2	☐	Au	☐
Cp	☐	Mag	☐
Pb	☐	Hem	☐
Zn	☑	W	☐

OTHER(S), REMARKS:

ANALYSES

☐ ppm ☐ %
Cu
Mo
Au 0.033 oz/ton
Ag 3.24 oz/ton
Pb
Zn
OTHERS:

SAMPLE No. 6478	ROCK TYPE, DESCRIPTION	ALTERATION	MINERALIZATION	ANALYSES
COLLECTED BY: A. Gambardella DATE: Aug 29/74 LOCATION UTM: 92H/7 AREA: Princeton PROPERTY: Whipsaw Mines SAMPLE SIZE LENGTH: PANEL: ___ x ___ GRAB SAMPLE: ☑	"W" showing, upper adit. High grade sample of pyrite-epidote rock.	TYPE / DEGREE (W M S) NIL ☐ Prp ☑ — W ☐ M ☐ S ☑ Arg ☐ — ☐ ☐ ☐ Phl ☐ — ☐ ☐ ☐ K ☐ — ☐ ☐ ☐ OTHER, REMARKS	Py ☑ Ag ☐ MoS_2 ☐ Au ☐ Cp ☐ Mag ☐ Pb ☐ Hem ☐ Zn ☐ W ☐ OTHER(S), REMARKS	☐ ppm ☐ % Cu Mo Au 0.002 oz/ton Ag 0.19 oz/ton Pb Zn OTHERS:

SAMPLE No.	ROCK TYPE, DESCRIPTION	ALTERATION	MINERALIZATION	ANALYSES
COLLECTED BY: DATE: LOCATION UTM: AREA: PROPERTY: SAMPLE SIZE LENGTH: PANEL: ___ x ___ GRAB SAMPLE: ☐		TYPE / DEGREE (W M S) NIL ☐ Prp ☐ — ☐ ☐ ☐ Arg ☐ — ☐ ☐ ☐ Phl ☐ — ☐ ☐ ☐ K ☐ — ☐ ☐ ☐ OTHER, REMARKS	Py ☐ Ag ☐ MoS_2 ☐ Au ☐ Cp ☐ Mag ☐ Pb ☐ Hem ☐ Zn ☐ W ☐ OTHER(S), REMARKS	☐ ppm ☐ % Cu Mo Au Ag Pb Zn OTHERS:

SAMPLE No.	ROCK TYPE, DESCRIPTION	ALTERATION	MINERALIZATION	ANALYSES
COLLECTED BY: DATE: LOCATION UTM: AREA: PROPERTY: SAMPLE SIZE LENGTH: PANEL: ___ x ___ GRAB SAMPLE: ☐		TYPE / DEGREE (W M S) NIL ☐ Prp ☐ — ☐ ☐ ☐ Arg ☐ — ☐ ☐ ☐ Phl ☐ — ☐ ☐ ☐ K ☐ — ☐ ☐ ☐ OTHER, REMARKS	Py ☐ Ag ☐ MoS_2 ☐ Au ☐ Cp ☐ Mag ☐ Pb ☐ Hem ☐ Zn ☐ W ☐ OTHER(S), REMARKS	☐ ppm ☐ % Cu Mo Au Ag Pb Zn OTHERS:

SAMPLE No.	ROCK TYPE, DESCRIPTION	ALTERATION	MINERALIZATION	ANALYSES
COLLECTED BY: DATE: LOCATION UTM: AREA: PROPERTY: SAMPLE SIZE LENGTH: PANEL: ___ x ___ GRAB SAMPLE: ☐		TYPE / DEGREE (W M S) NIL ☐ Prp ☐ — ☐ ☐ ☐ Arg ☐ — ☐ ☐ ☐ Phl ☐ — ☐ ☐ ☐ K ☐ — ☐ ☐ ☐ OTHER, REMARKS	Py ☐ Ag ☐ MoS_2 ☐ Au ☐ Cp ☐ Mag ☐ Pb ☐ Hem ☐ Zn ☐ W ☐ OTHER(S), REMARKS	☐ ppm ☐ % Cu Mo Au Ag Pb Zn OTHERS:

SAMPLE No.	ROCK TYPE, DESCRIPTION	ALTERATION	MINERALIZATION	ANALYSES
COLLECTED BY: DATE: LOCATION UTM: AREA: PROPERTY: SAMPLE SIZE LENGTH: PANEL: ___ x ___ GRAB SAMPLE: ☐		TYPE / DEGREE (W M S) NIL ☐ Prp ☐ — ☐ ☐ ☐ Arg ☐ — ☐ ☐ ☐ Phl ☐ — ☐ ☐ ☐ K ☐ — ☐ ☐ ☐ OTHER, REMARKS	Py ☐ Ag ☐ MoS_2 ☐ Au ☐ Cp ☐ Mag ☐ Pb ☐ Hem ☐ Zn ☐ W ☐ OTHER(S), REMARKS	☐ ppm ☐ % Cu Mo Au Ag Pb Zn OTHERS:

APPENDIX IV

QUALIFICATIONS

I, Aldo Gambardella, do hereby certify that:

1. I am a geologist with residence at 1600 Beach Ave., L-2102, Vancouver, B.C. V6G 1Y6

2. I am a graduate of City College of New York (B. Sc., 1961)

3. I have done 3 years of graduate work at the University of Manitoba.

4. I have worked as an exploration geologist for 13 years for the following companies: Amax Exploration Inc. and Newconex Canadian Exploration Ltd.

5. I examined the property described in this report on August 27-31, 1974, on behalf of Newconex Canadian Exploration Ltd.

A. Gambardella

A. Gambardella

Feb. 19, 1975

APPENDIX II

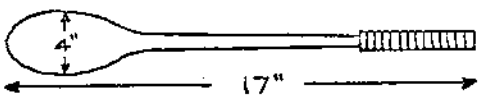
GEOCHEMICAL SAMPLES

COLLECTION, PREPARATION AND ANALYSIS

I SAMPLE COLLECTION

(a) Stream Sediments

The samples were collected with a large stainless steel serving spoon as shown in the diagram.



Each sample was collected in small increments from several sites in the stream bed, and transferred directly into a high wet strength kraft paper bag. Care was taken to collect the incremental portions from sites along the stream banks as well as from the active parts of the stream. Natural heavy metal collecting sites, such as areas behind and underneath boulders, were also sampled. In streams that lacked silt, moss (which acts as a natural trap of heavy metals) was collected, and the clinging silt shaken directly into the sample bag. Approximately one pound of material per sample was collected. The dimensions of the stream area sampled varied, of course, with the size of the stream and with the availability of silt. In general, however, each sample was collected over a stream length of approximately 100'. The samples were allowed to air dry for 1-2 days and then were sent to the laboratory.

(b) Soils

The "B" horizon was collected if possible. A hole 10 to 20 inches deep was dug with a maddock. The soil was scooped with a sampling spoon (described above), and placed in a 23 mesh sieve, eight inches in diameter, to separate the coarse components. The -23 mesh fraction was collected onto a sheet of smooth polyethelene plastic 2 x 2 feet in size, and transferred into the paper sample bag. The process was repeated until approximately one pound of material was obtained. This procedure worked well with relatively dry soils. However, with wet soils, the procedure did not work. In this case, the sample material was spooned directly into the sample bag after removing the coarser fragments by hand.

(c) Rocks

Rock samples were collected in small chips one inch or less in size. The dimensions of the area sampled varied according to the rock exposure, rock type and the purpose of the sample. For rock exposures in which no specific mineralized structure was apparent, representative rock chips were collected random over an area of approximately 100 square feet. Two to five pounds of rock chips per sample were collected into a heavy duty polyethelene bag.

II SAMPLE PREPARATION

(a) Sediments

(1) Dry in oven.

(2) Screen out whole -80 mesh portion. (usually ±150 gm)

(3) Grind whole -80 mesh portion to -150 mesh.

(4) Roll -150 mesh portion on new paper, mark with a grid, and weigh out 30 gms. Store remainder.

(b) Soils

As Above

(c) Rocks

(1) Crush.

(2) Pulverize to -150 mesh.

(3) Roll on new paper, mark with a grid, and weigh out 30 gms. Store remainder.

III SAMPLE ANALYSIS

(a) Ignite at 600° to remove organics. Record loss of weight.

(b) Digest 30.0 gm sample with 75 ml of 4:4:2 $HCl:H_2O:HNO_3$ by boiling for 1 hour.

(c) Dilute to 200 ml with 5% HCl.

(1) Gold Take 80 ml aliquot and extract with 5 ml MIBK (methylisobutylketone). Analyse for Au on Perkin-Elmer 305.

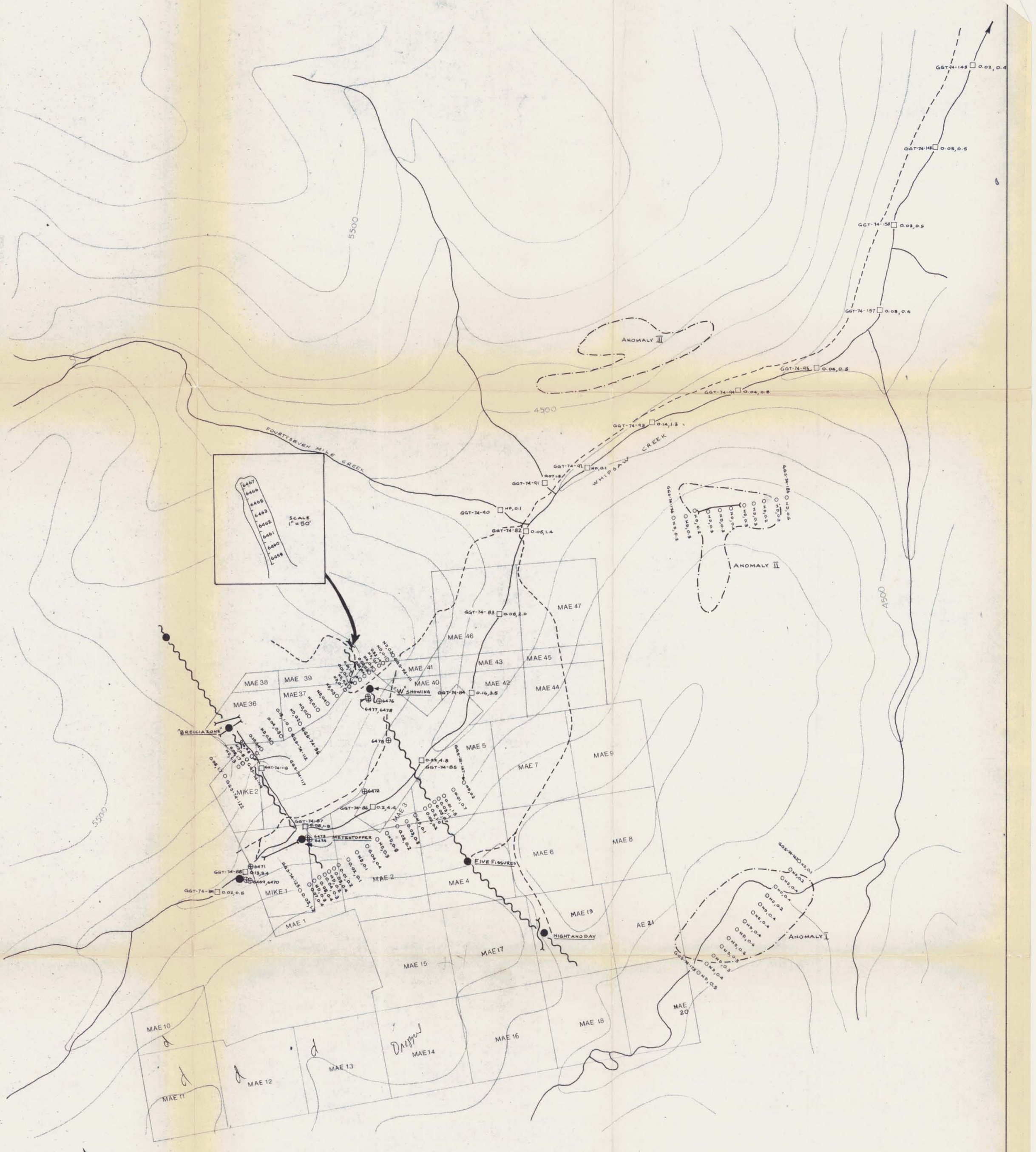
(2) Copper Aspirate from the 200 ml solution in (c) into Perkin-Elmer 305.

Notes:

(i) The above procedure is not suitable for silver, and a separate digestion is necessary.

(ii) If the sample contains more than 5 ppm Au, gold can be determined directly from the original aqueous solution.

P. W. Richardson.



SYMBOLS

- Soil geochemical copper anomaly
- FIVE FISSURES – Mineralized showing, name
- Trench
- Fault zone
- GGT-74-86 0.2,4.4 – Geochemical silt sample, location, number, value in ppm Au, Ag
- GGS-74-125 0.02,12 – Geochemical soil sample, " " " " " " "
- ⊕6473 – Assay sample, location and number
- Road

NOTE: Map modified after P. Anderson, 1973

P. W. Richardson

NEWCONEX CANADIAN EXPLORATION LTD.

WHIPSAW CREEK PROPERTY
WHIPSAW MINES LTD. (NPL)

GEOCHEMICAL MAP

SCALE	FIG.	DRFT.	DATE
1" = 1000'	2 1	A. G.	Feb/75

TO ACCOMPANY:
WHIPSAW CREEK PROPERTY REPORT

AUTHOR: A. GAMBARDELLA DATE: FEB/75