

**GEOCHEMISTRY**

**REPORT**

**CATHY 1-22 CLAIMS**

**YC13111-YC13132**

**LATITUDE: 63'14 NORTH**

**LONGITUDE: 139'30 WEST**

**NTS # 115 0/3**

**DAWSON MINING DIVISION**

**FOR**

**CANADIAN UNITED MINERALS INC.  
DAWSON CITY**

**BY**

**SHAWN RYAN, PROSPECTOR  
DAWSON CITY**

**DATES WORKED  
SEPTEMBER 17-22, 2000**

**DATE OF REPORT  
SEPTEMBER, 2001**

**094281**



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 \$ 4400.

*M. B. L.*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

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## **SUMMARY**

The Cathy 1-22 claims, grant number YC13111-YC13132, belonging to Canadian United Minerals Inc. will be renewed for a period of two years. A soil and silt survey revealed no new gold anomalies but did find a anomalous copper area.

## **LOCATION**

The property is located 80 air miles south of Dawson City. The property border the Yukon river just north of the White river.

## **ACCESS**

Access to the property has being by boat and motor from Dawson City. It take me about 7-8 hour to reach the property with a 30 H.P. outboard motor on a 20 foot freighter canoe.

## **GEOLOGY**

The Cathy claim block borders on new regional mapping by Jim Ryan and Steve Gordey of the GSC. They mapped rock units on the south west corner of the Cathy claims as being in a potential Cambian, metasedimentary rocks describe as a Quartz-MICA SCHIST OR MICA-QUARTZ SCHIST/PARAGNEISS.

## **DESCRIPTION OF WORK AND METHODS**

I traveled to the property September 17 and work for 5 days. During this period Scott Flemming and I carried out a contour soil survey along a small creek drainage that has carried high gold silt values. We also took silt samples and pan concentrates from the anomalous creek drainage.

The soil survey was conducted by starting from the river edge, where the anomalous creek come out into the Yukon River. We each started taking soil about 100 meters up from the creek and 50 meters upstream from the Yukon River. Soil sample where taken from the B-horizon and place into kraft paper bags. Soils where taken at 50,100,200,300,400,and 500 meters from the river edge on both sides of the Anomalous creek.

I also took a day to pan down silt sample at three location along the Anomalous creek. We also rework the mouth of the anomalous creek with pan concentrate to see if the

anomaly was placer potential contamination. There was small specs of visible gold found in pan concentrates at the anomalous gold location site.

### **INTERPRETATION**

The soil survey and pan concentrates were directed towards the anomalous gold value from the mouth of the small creek. The pan concentrates showed the highly anomalous site as only having a 30ppb Au. The silt from the same site has given a 135 ppb Au. This is a nice anomaly but falls short of my sample taken two years earlier of 6800ppb Au. The soil lines taken on both sides of the creek also show low Au values. The one anomaly that did appear is a copper anomaly with values up to 98ppm Cu.

### **CONCLUSION**

The survey has showed gold value to be low around the anomalous gold silt area. The soil survey may have missed the entry of the anomalous gold values or the gold is coming from the Yukon River bank and is contaminating the silt sample with placer gold. The one anomaly that has appeared is a copper anomaly that shows 8 out of 12 soil samples running over 30ppm Cu which I consider to be anomalous.

### **RECOMMENDATIONS**

I recommended infill soil at 50 meter intervals between soil samples taken along the anomalous creek area. I would also recommend taking more soil samples up slope of the copper soil area, this may lead to a different geological deposit model with base metal potential. I would also recommend a deeper soil sample survey over soil sample number cat20 so7 or cat20 so9. This should give an indication of how the anomalous copper value works at depth.

**COST**

**Wage**

Prospector six days at \$250.00 a day \$1500.00

Assistant Scott Flemming \$200.00 a day \$1200.00

**Food**

12 man days at \$35.00 a day \$ 420.00

**Gas/Oil**

gas and oil for outboard \$ 150.00

**Rental**

Freighter canoe and outboard motor  
\$125.00 daily times 6 days \$ 750.00

**Assay Cost**

22 soil or silt samples at \$20.00 per  
sample \$ 440.00

**REPORT COST**

2 days of report writing \$ 300.00

**TOTAL COST \$4760.00**

## QUALIFICATION

I have being involved in the exploration business for the last 19 years.

I have trained as a geophysical technician with Kidd Creek Exploration for eight years.

I have worked as a geophysical contractor for 11 years.

I have ran numerous geophysical surveys and soil sampling surveys in the Yukon and Ontario.

I have being actively prospecting in the Yukon for the last seven years.

I have being the prospector in charge of gathering the data and have overview the whole project.

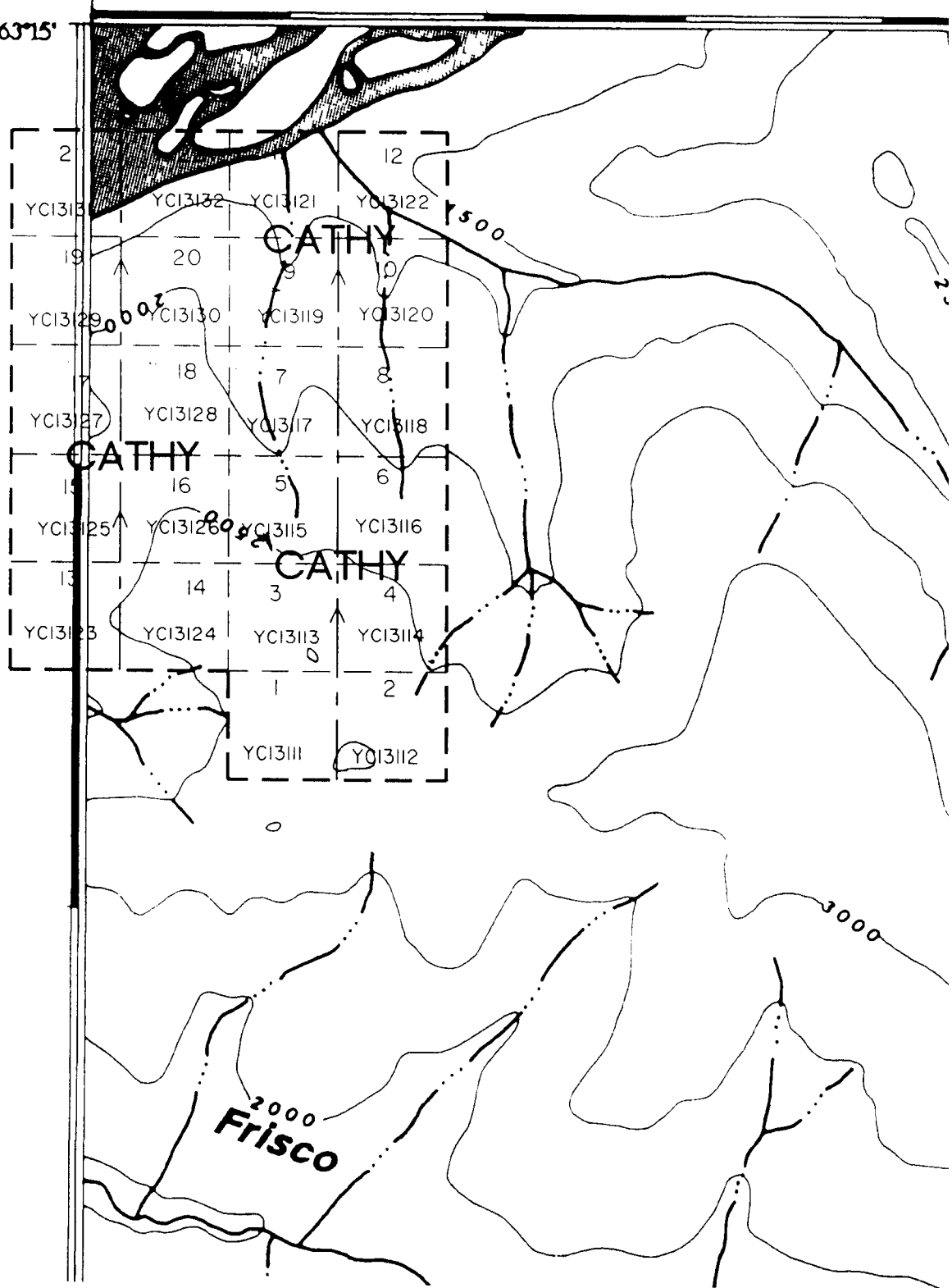
A handwritten signature in black ink, appearing to read "John R.", is located in the lower right quadrant of the page.

WHITEHORSE/DAWSON MINING DISTRICT

139°30'

63°15'

North ↑



NTS # 115 0/3



# WORK IN PROGRESS

## LATE CRETACEOUS TO EOCENE?



**PORPHYRY:** young, cross-cutting quartz-K-feldspar porphyritic rhyolite to rhyodacite stock; possible related to Carmacks volcanics

## JURASSIC OR CRETACEOUS



**GRANITE:** cross-cutting intrusive plutons, and/or dykes; includes felsic to intermediate varieties, leucocratic, pink to grey

## PALEOZOIC AND/OR MESOZOIC



**FOLIATED GRANITE:** deformed, (foliated to gneissic), felsic to intermediate monzogranite, granodiorite, quartz monzonite



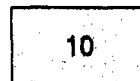
**GABBRO:** metagabbro (locally garnet bearing); diabase, metabasite

## MID-PALEOZOIC

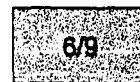
### Orthogneissic Rocks



**AUGEN GNEISS:** potassic feldspar augen granite; exhibits various states of strain including porphyroclastic straight gneiss



**FELSIC GNEISS:** pink to orange felsic orthogneiss; banded to layered; veined and/or segregated; derived from felsic granitoid sheets



**AMPHIBOLITE AND MAFIC GNEISS UNITS UNDIVIDED**

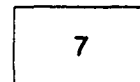


**MAFIC GNEISS:** intermediate to mafic orthogneiss; generally grey; banded to layered; commonly veined; derived from intermediate granitoid (tonalite to diorite) sheets; usually interlayered with amphibolite schist and gneiss

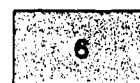
### Metavolcanic(?) and Volcaniclastic Rocks



**MAFIC SCHIST:** metabasite? biotite-hornblende +/- plagioclase +/- quartz; generally associated with amphibolite; main locality on Thistle Mountain

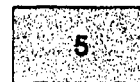


**QUARTZ-SERICITE SCHIST:** quartz-sericite schist or metafelsite, possibly derived from felsic volcanic or hypabyssal intrusive rocks, e.g. rhyolite or quartz-feldspar porphyry

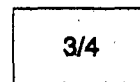


**AMPHIBOLITE:** amphibolite schist and gneiss; metabasite; usually containing garnet-hornblende-plagioclase or hornblende-plagioclase with local chlorite and biotite; local associated psammite or interlayering with orthogneiss; probably derived from mafic volcanic to volcaniclastic rocks; locally seen as trains of boudins, which may represent disrupted mafic sills; intermediate varieties locally contain rosettes of large hornblende crystals in decussate texture

### Metasedimentary Rocks



**MARBLE:** marble (metacarbonate) derived from pure to impure limestone; associated calc-silicate schist derived from calcareous metapelite



**QUARTZ-MICA SCHIST AND MICA-QUARTZ SCHIST/PARGNEISS UNITS UNDIVIDED**

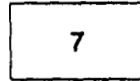


**9** **MAFIC GNEISS:** *intermediate to mafic orthogneiss; generally grey; banded to layered; commonly veined; derived from intermediate granitoid (tonalite to diorite) sheets; usually interlayered with amphibolite schist and gneiss*

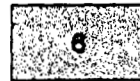
**Metavolcanic(?) and Volcaniclastic Rocks**



**8** **MAFIC SCHIST:** *metabasite? biotite-hornblende +/- plagioclase +/- quartz; generally associated with amphibolite; main locality on Thistle Mountain*



**7** **QUARTZ-SERICITE SCHIST:** *quartz-sericite schist or metafelsite, possibly derived from felsic volcanic or hypabyssal intrusive rocks, e.g. rhyolite or quartz-feldspar porphyry*

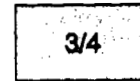


**6** **AMPHIBOLITE:** *amphibolite schist and gneiss; metabasite; usually containing garnet-hornblende-plagioclase or hornblende-plagioclase with local chlorite and biotite; local associated psammite or interlayering with orthogneiss; probably derived from mafic volcanic to volcaniclastic rocks; locally seen as trains of boudins, which may represent disrupted mafic sills; intermediate varieties locally contain rosettes of large hornblende crystals in decussate texture*

**Metasedimentary Rocks**



**5** **MARBLE:** *marble (metacarbonate) derived from pure to impure limestone; associated calc-silicate schist derived from calcareous metapelite*



**3/4** **QUARTZ-MICA SCHIST AND MICA-QUARTZ SCHIST/PARAGNEISS UNITS UNDIVIDED**



**4** **QUARTZ-MICA SCHIST:** *?quartz-muscovite-biotite schist possibly derived from siliceous siltstone; commonly finely interlayered with garnet metapelite; commonly contains beds of micaceous quartz arenite*



**3** **MICA-QUARTZ SCHIST/PARAGNEISS:** *undivided metasedimentary rocks dominated by metapsammite, semipelite and metapelite; commonly garnet-biotite-muscovite +/- plagioclase schist; generally heterogeneously layered; grades locally to paragneiss; varies to quartz-mica schist*




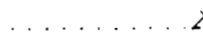
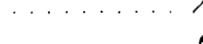



**2** **CONGLOMERATE:** *pebble to boulder sized rounded clasts; mainly massive bulky white quartz, but some granitoid clasts as well (tonalite?); has an arkosic matrix; grades into quartzite*



**1** **QUARTZITE:** *banded to massive, grey to white quartzite; unclear if clastic in origin, or possibly derived from meta-chert; possibly correlated with Nasina Quartzite*

**SYMBOLS**

- Geological contact  
(defined, approximate, assumed) 
- Fault, sense of movement uncertain  
(defined, approximate, assumed) 
- Limit of mapping 
- Transposition foliation 
- Mineral lineation 
- Mineral Prospect 

139°40'

35'

30'

63°15'

1150010

9

1150011

3/4

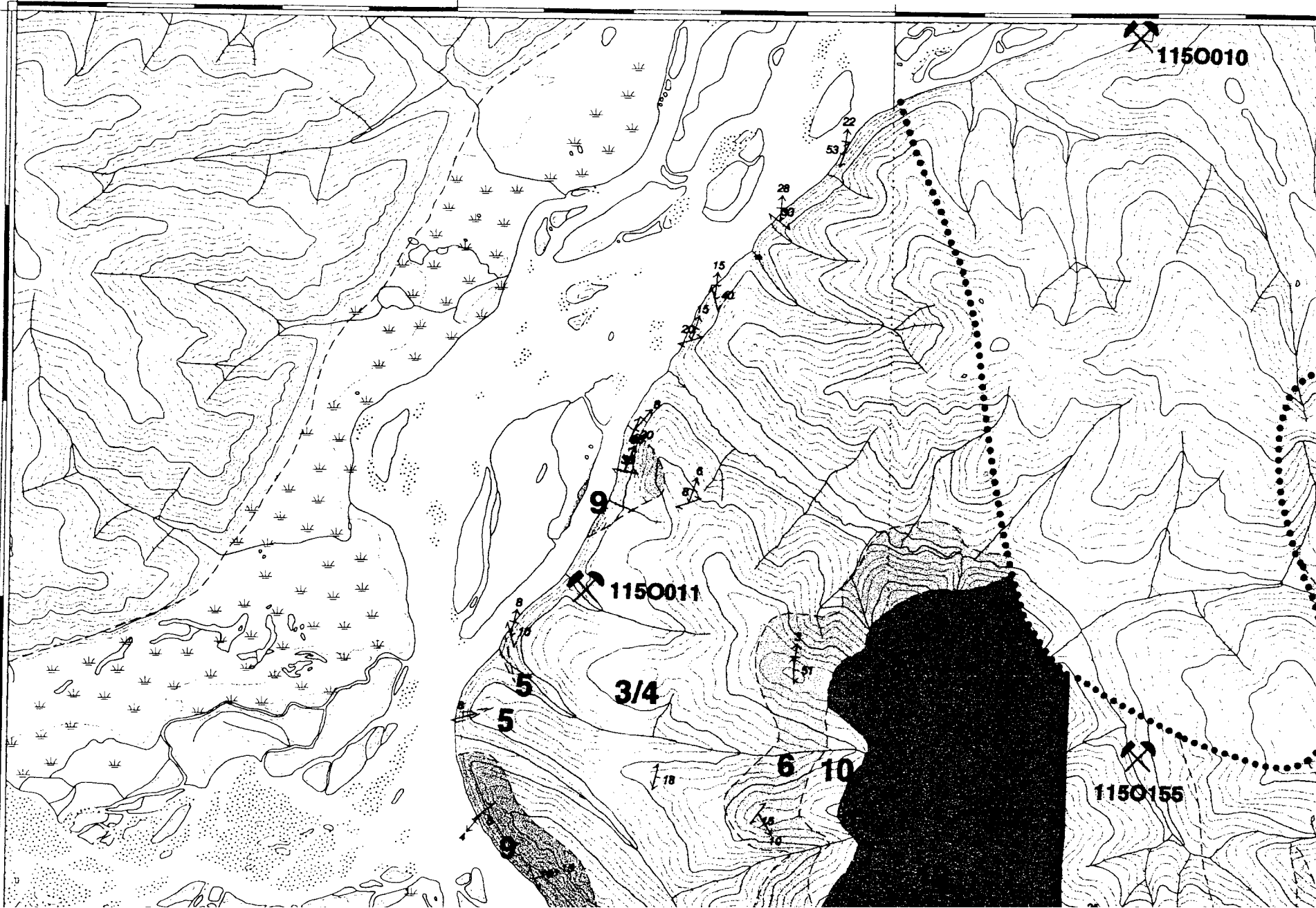
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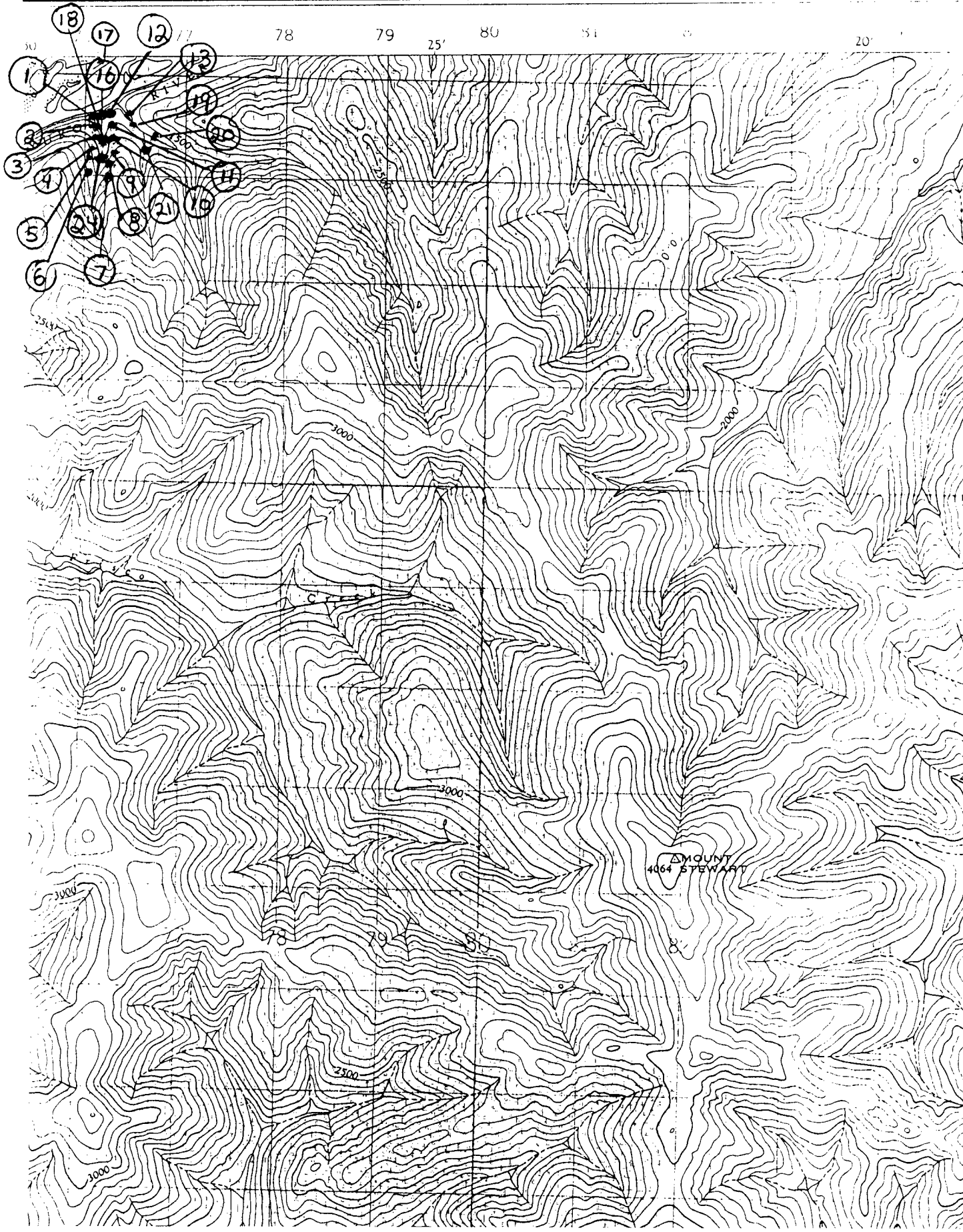


# DIVISIONAL MAP

1:50,000

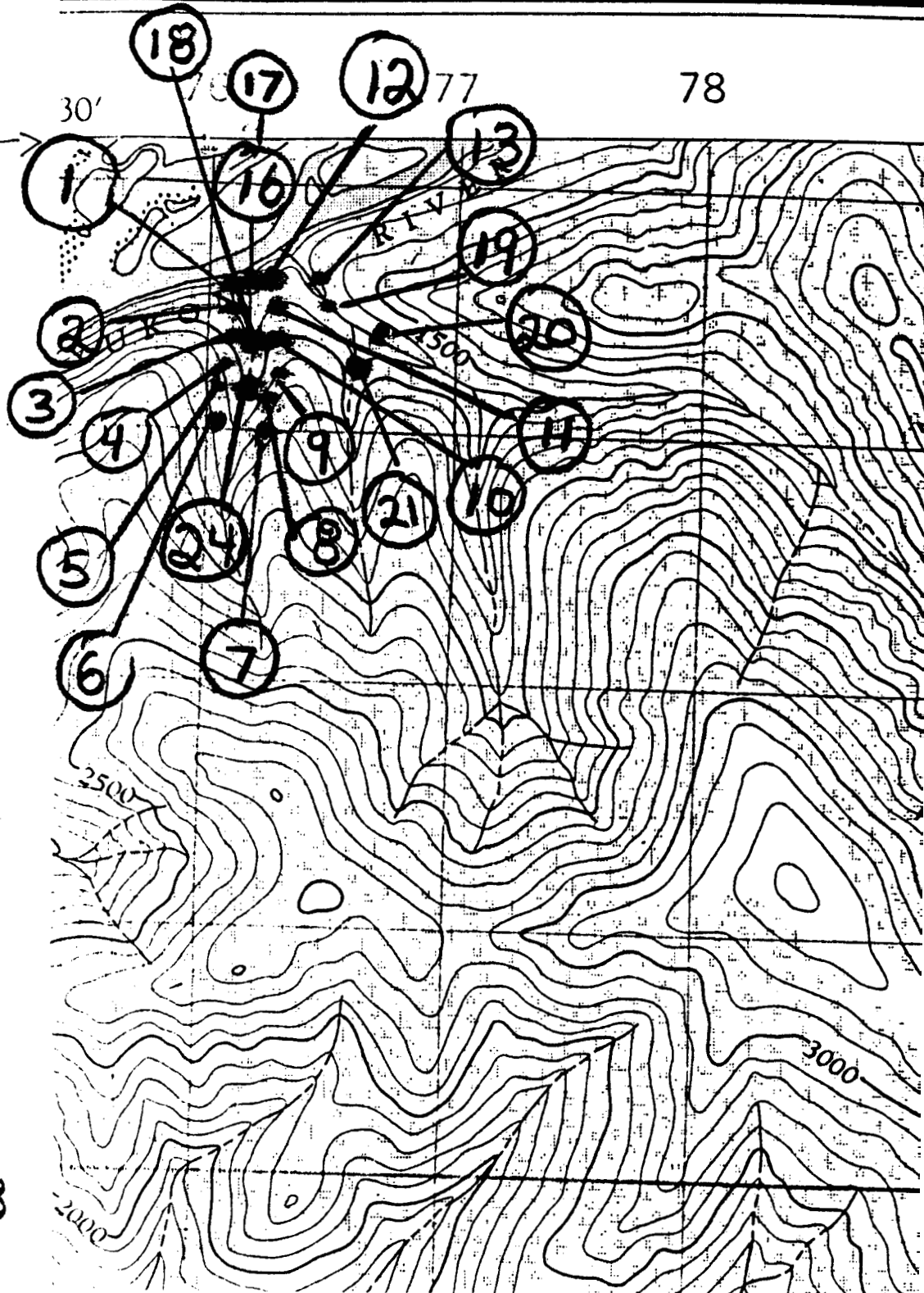
↑  
NORTH  
↓

N75 # 1150/3



Cathy 1-22  
Soil Sample Location  
MAP  
DIVISIONAL MAP

63' 15 N  
139° 30 W



1000 m  
SCALE

↑  
NORTH  
↓

NTS # 115 0/3





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: CANADIAN UNITED MINERALS INC.

BOX 1260  
 DAWSON CITY, YT  
 Y0B 1G0

Page : 1-B  
 Total Pages : 2  
 Certificate Date: 08-DEC-2000  
 Invoice No. : 10034983  
 P.O. Number :  
 Account : PRP

Project :  
 Comments: ATTN: SHAWN RYAN

## CERTIFICATE OF ANALYSIS

A0034983

| SAMPLE        | PREP |     | Mn   | Mo  | Na     | Ni  | P    | Pb  | S      | Sb  | Sc  | Sr  | Ti     | Tl   | U    | V   | W    | Zn  |
|---------------|------|-----|------|-----|--------|-----|------|-----|--------|-----|-----|-----|--------|------|------|-----|------|-----|
|               | CODE |     | ppm  | ppm | %      | ppm | ppm  | ppm | %      | ppm | ppm | ppm | %      | ppm  | ppm  | ppm | ppm  | ppm |
| DOSS -01      | 201  | 202 | 260  | < 1 | 0.01   | 13  | 540  | 14  | 0.01   | < 2 | 2   | 19  | 0.03   | < 10 | < 10 | 30  | < 10 | 62  |
| DOSS -02      | 201  | 202 | 925  | < 1 | < 0.01 | 8   | 380  | 38  | 0.03   | < 2 | 1   | 26  | 0.01   | < 10 | < 10 | 16  | < 10 | 134 |
| DOSS -03      | 201  | 202 | 545  | < 1 | < 0.01 | 8   | 450  | 86  | 0.05   | < 2 | 1   | 23  | 0.01   | < 10 | < 10 | 16  | < 10 | 82  |
| DOSS -04      | 201  | 202 | 170  | 1   | < 0.01 | 4   | 240  | 30  | 0.03   | < 2 | 1   | 22  | 0.01   | < 10 | < 10 | 10  | < 10 | 44  |
| DOSS -05      | 201  | 202 | 210  | 2   | < 0.01 | 7   | 340  | 30  | 0.06   | < 2 | 1   | 33  | 0.01   | < 10 | < 10 | 14  | < 10 | 48  |
| CAT20 S0 5    | 201  | 202 | 160  | < 1 | 0.01   | 23  | 490  | 8   | < 0.01 | < 2 | 3   | 18  | 0.07   | < 10 | < 10 | 48  | < 10 | 64  |
| CAT20 S0 6    | 201  | 202 | 220  | < 1 | 0.01   | 29  | 780  | 10  | < 0.01 | < 2 | 3   | 29  | 0.06   | < 10 | < 10 | 47  | < 10 | 90  |
| CAT20 S0 7    | 201  | 202 | 305  | < 1 | 0.02   | 21  | 820  | 6   | < 0.01 | < 2 | 6   | 18  | 0.19   | < 10 | < 10 | 104 | < 10 | 68  |
| CAT20 S0 8    | 201  | 202 | 240  | < 1 | 0.02   | 14  | 740  | 2   | < 0.01 | < 2 | 4   | 20  | 0.17   | < 10 | < 10 | 78  | < 10 | 58  |
| CAT20 S0 9    | 201  | 202 | 500  | < 1 | 0.03   | 17  | 430  | 6   | < 0.01 | < 2 | 9   | 35  | 0.20   | < 10 | < 10 | 120 | < 10 | 82  |
| CAT20 S0 10   | 201  | 202 | 280  | < 1 | 0.03   | 20  | 610  | 8   | 0.02   | < 2 | 4   | 40  | 0.07   | < 10 | < 10 | 48  | < 10 | 58  |
| CAT20 S0 11   | 201  | 202 | 510  | < 1 | 0.02   | 18  | 640  | 6   | 0.01   | < 2 | 8   | 31  | 0.12   | < 10 | < 10 | 77  | < 10 | 82  |
| CAT20 S0 12   | 201  | 202 | 185  | < 1 | 0.01   | 14  | 410  | 6   | < 0.01 | < 2 | 3   | 18  | 0.06   | < 10 | < 10 | 46  | < 10 | 40  |
| CAT20 S0 13   | 201  | 202 | 190  | < 1 | 0.01   | 23  | 480  | 6   | < 0.01 | < 2 | 4   | 23  | 0.10   | < 10 | < 10 | 65  | < 10 | 50  |
| CAT20 S0 14   | 201  | 202 | 485  | < 1 | 0.02   | 23  | 430  | 6   | 0.01   | < 2 | 4   | 28  | 0.10   | < 10 | < 10 | 51  | < 10 | 66  |
| CAT20 S0 15   | 201  | 202 | 305  | < 1 | 0.03   | 27  | 710  | 8   | 0.01   | < 2 | 4   | 38  | 0.06   | < 10 | < 10 | 45  | < 10 | 60  |
| CAT20 S0 16   | 201  | 202 | 340  | < 1 | 0.02   | 25  | 470  | 8   | < 0.01 | < 2 | 5   | 28  | 0.08   | < 10 | < 10 | 56  | < 10 | 56  |
| CAT20 S0 17   | 201  | 202 | 310  | < 1 | 0.01   | 46  | 680  | 8   | 0.03   | < 2 | 3   | 25  | 0.06   | < 10 | < 10 | 44  | < 10 | 60  |
| CAT 20SS 01   | 201  | 202 | 745  | < 1 | 0.01   | 49  | 480  | 6   | 0.03   | < 2 | 6   | 48  | 0.07   | < 10 | < 10 | 48  | < 10 | 46  |
| CAT 20SS 02   | 201  | 202 | 580  | 1   | 0.01   | 33  | 660  | 6   | 0.02   | < 2 | 4   | 41  | 0.07   | < 10 | < 10 | 47  | < 10 | 72  |
| CAT 20SS 03   | 201  | 202 | 210  | < 1 | 0.01   | 11  | 620  | 6   | 0.01   | < 2 | 3   | 21  | 0.08   | < 10 | < 10 | 44  | < 10 | 40  |
| CAT 20SS 04   | 201  | 202 | 125  | < 1 | 0.01   | 6   | 930  | 2   | < 0.01 | < 2 | 1   | 15  | 0.06   | < 10 | < 10 | 41  | < 10 | 26  |
| CAT 20SS 05   | 201  | 202 | 255  | < 1 | 0.01   | 12  | 670  | 2   | 0.01   | < 2 | 3   | 23  | 0.09   | < 10 | < 10 | 45  | < 10 | 54  |
| CAT 20SS 06   | 201  | 202 | 300  | < 1 | 0.02   | 32  | 670  | 6   | 0.01   | < 2 | 3   | 39  | 0.06   | < 10 | < 10 | 43  | < 10 | 54  |
| CAT 20SS 07   | 201  | 202 | 220  | < 1 | 0.02   | 15  | 680  | 2   | < 0.01 | < 2 | 3   | 25  | 0.06   | < 10 | < 10 | 42  | < 10 | 42  |
| CAT 20SS 08   | 201  | 202 | 295  | < 1 | 0.02   | 13  | 930  | 2   | < 0.01 | < 2 | 4   | 22  | 0.06   | < 10 | < 10 | 50  | < 10 | 44  |
| GA1-TS-01     | 201  | 202 | 140  | < 1 | 0.17   | 24  | 600  | 30  | 1.00   | < 2 | 6   | 156 | 0.12   | < 10 | < 10 | 31  | < 10 | 30  |
| GA1-TS-02     | 201  | 202 | 225  | < 1 | 0.09   | 24  | 680  | 22  | 0.79   | < 2 | 4   | 71  | 0.07   | < 10 | < 10 | 29  | < 10 | 40  |
| GA1-TS-03     | 201  | 202 | 95   | < 1 | 0.01   | 12  | 490  | 6   | 0.07   | < 2 | < 1 | 11  | 0.03   | < 10 | < 10 | 31  | < 10 | 28  |
| SC SS20-01    | 201  | 202 | 690  | < 1 | 0.02   | 21  | 990  | 8   | 0.04   | < 2 | 5   | 42  | 0.11   | < 10 | < 10 | 55  | < 10 | 82  |
| SC 375 SS 180 | 201  | 202 | 435  | < 1 | 0.01   | 19  | 1090 | 6   | 0.01   | < 2 | 4   | 47  | 0.08   | < 10 | < 10 | 49  | < 10 | 64  |
| SC 400 SS 385 | 201  | 202 | 555  | < 1 | 0.01   | 19  | 1010 | 4   | 0.03   | < 2 | 5   | 61  | 0.11   | < 10 | < 10 | 55  | < 10 | 78  |
| SC 750 650 ET | 201  | 202 | 580  | < 1 | 0.01   | 17  | 540  | 8   | < 0.01 | < 2 | 7   | 30  | 0.11   | < 10 | < 10 | 99  | < 10 | 68  |
| SC 750 650 EB | 201  | 202 | 2140 | < 1 | 0.03   | 19  | 2080 | 14  | 0.01   | < 2 | 15  | 67  | 0.14   | < 10 | < 10 | 155 | < 10 | 88  |
| SC RED ROAD   | 201  | 202 | 1310 | 5   | 0.01   | 27  | 1430 | 22  | 0.18   | < 2 | 27  | 64  | < 0.01 | < 10 | < 10 | 74  | < 10 | 102 |
| SC 200-150E   | 201  | 202 | 280  | 4   | 0.01   | 35  | 880  | 10  | 0.01   | < 2 | 6   | 23  | 0.16   | < 10 | < 10 | 111 | < 10 | 76  |
| SC 200-175E   | 201  | 202 | 325  | < 1 | 0.01   | 20  | 550  | 8   | < 0.01 | < 2 | 5   | 25  | 0.13   | < 10 | < 10 | 57  | < 10 | 76  |
| SC 200-200E   | 201  | 202 | 570  | < 1 | 0.01   | 16  | 620  | 8   | < 0.01 | < 2 | 9   | 31  | 0.15   | < 10 | < 10 | 54  | < 10 | 116 |
| SC 200-225E   | 201  | 202 | 850  | < 1 | 0.01   | 17  | 1150 | 16  | 0.01   | < 2 | 8   | 40  | 0.15   | < 10 | < 10 | 55  | < 10 | 112 |
| SC 200-250E   | 201  | 202 | 245  | < 1 | 0.01   | 14  | 390  | 12  | < 0.01 | < 2 | 4   | 22  | 0.08   | < 10 | < 10 | 52  | < 10 | 60  |

CERTIFICATION: \_\_\_\_\_

*[Handwritten signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
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 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: CANADIAN UNITED MINERALS INC.

BOX 1260  
 DAWSON CITY, YT  
 Y0B 1G0

Project:  
 Comments: ATTN: SHAWN RYAN

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date : 01-DEC-2000  
 Invoice No. : I0034972  
 P.O. Number :  
 Account : PRP

## CERTIFICATE OF ANALYSIS

## A0034972

22 -  
 23 -  
 24 -

| SAMPLE     | PREP CODE |     | Au ppb | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm | Mg % |
|------------|-----------|-----|--------|--------|------|--------|-------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|
|            | FA+AA     |     |        |        |      |        |       |        |        |        |      |        |        |        |        |      |        |        |      |        |      |
| CAT 20 P01 | 235       | 229 | 30     | < 0.2  | 1.04 | < 2    | < 10  | 100    | < 0.5  | < 2    | 0.69 | < 0.5  | 13     | 74     | 18     | 4.29 | < 10   | < 1    | 0.10 | < 10   | 0.69 |
| CAT 20 P02 | 235       | 229 | 10     | < 0.2  | 1.16 | < 2    | < 10  | 100    | < 0.5  | < 2    | 0.75 | < 0.5  | 12     | 77     | 20     | 3.48 | < 10   | < 1    | 0.12 | < 10   | 0.79 |
| CAT 20 P03 | 235       | 229 | 5      | < 0.2  | 1.01 | < 2    | < 10  | 100    | < 0.5  | < 2    | 0.64 | < 0.5  | 17     | 66     | 19     | 4.47 | < 10   | < 1    | 0.11 | < 10   | 0.66 |

CAT 20 P - SERIES FAN CONCENTRATES  
 From NTS # 115 P0/3

CERTIFICATION: \_\_\_\_\_