

**HAND TRENCHING**

**REPORT**

**CATHY 23-38 CLAIMS**

**YC20464-YC20469**

**094339**

**LATITUDE : 63'13 NORTH**

**LONGITUDE : 139' 31 WEST**

**NTS # 115 O / 4**

**DAWSON MINING DIVISION**

**BY**

**SHAWN RYAN, PROPECTOR**

**DAWSON CITY**

**DATES WORKED  
JULY 2001**

**DATE OF REPORT  
APRIL 2002**



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 \$ 600.00.

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

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## **SUMMARY**

The Cathy 23-28 claims, grant number YC20464-69, belonging to Shawn Ryan will be renewed for a period of one year. I conducted a small hand trenching program for two days in July of 2001 on a 50 centimeter wide quartz breccia vein running anomalous values in Cu, As, Zn.

## **LOCATIONS**

The property is located 80 air miles south of Dawson City. The property borders the Yukon River about a kilometer north of Frisco Creek.

## **ACCESS**

I access the property is by traveling by river boat on the Yukon River. It takes about 7-8 hours from Dawson City to reach the property with a 30 H.P. outboard motor on a 20 foot freighter canoe.

## **GEOLOGY**

The Cathy 23-28 claims are located on a new regional mapping program area conducted by the GSC. Jim Ryan and Steve Gordey of the GSC has map the claim area as lying in potential Cambrian, metasedimentary rocks describe as a Quartz-Mica Schist or Mica-Quartz Schist / Paragneiss.

## **DESCRIPTION OF WORK AND METHODS**

I travel up the Yukon river in July of 2001 and worked on the Cathy 23-24 claims. I found quartz breccia float running anomalous copper, arsenic and zinc values. I followed breccia float to the potential outcrop and proceeded to hand trench the area. I worked for 1.5 days on the trench and uncovered a area of 3 meters by 1 meter. The breccia unit is about 50 centimeters wide and is dipping around 85-87 degrees and is striking N-E around 45 degrees.

I followed the breccia unit on surface for another 8 meters across a small creek. The breccia unit is a mix of quartz clasp with potential massive fine grain tourmaline holding the quartz clasp together. The breccia change composition over a short distance to having various minerals associated with the unit. I have noted chalcopyrite in some specimens and some have sphalerite .

## **INTERPRETATION**

The Breccia unit found with hand trenching is indicating that it 's steeply dipping and continuing in a north east direction for at least 8 meters. The breccia unit is indicating sporadic base metal value which may indicated a larger base metal system close by.

## **CONCLUSION**

The hand trenching program was successful in locating a new mineralized breccia unit. The trenching program also showed that the breccia is steeply dipping and continuing for at least 8 meters until at that point it run under the overburden. The breccia unit is mineralized sporadically with copper, arsenic and zinc.

## **RECOMMENDATION**

I would recommended follow up with more hand trenching on the north side of the small creek. I would also conducted a soil survey for a few hundred meters along the north-east strike of the breccia unit. This should give some idea on how far the breccia is moving.

## **COST**

<b>3 DAYS @ 250.00 per day Prospector wage</b>	<b>\$750.00</b>
<b>3 Days @ 100.00 per day Boat Rental</b>	<b>\$300.00</b>
<b>Gas / Oil Expense</b>	<b>\$150.00</b>
<b>Report Writing</b>	<b>\$250.00</b>
	-----
<b>Total</b>	<b>\$1450.00</b>

Cathy 23-28

Claims

NTS # 115 0/04

NORTH  
↑  
↓

Copper IN  
BRECCIA FLOAT

Small Creek

HAND TRENCH  
AREA

SPHALERITE FOUND  
IN BRECCIA OUTCROP

QUARTZ BRECCIA

STRIKE 45° N-E

DIP 85-87°

50 cm width AVERAGE

2 meter

SCALE

Y  
U  
K  
O  
N  
P  
L  
E  
R

## 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.

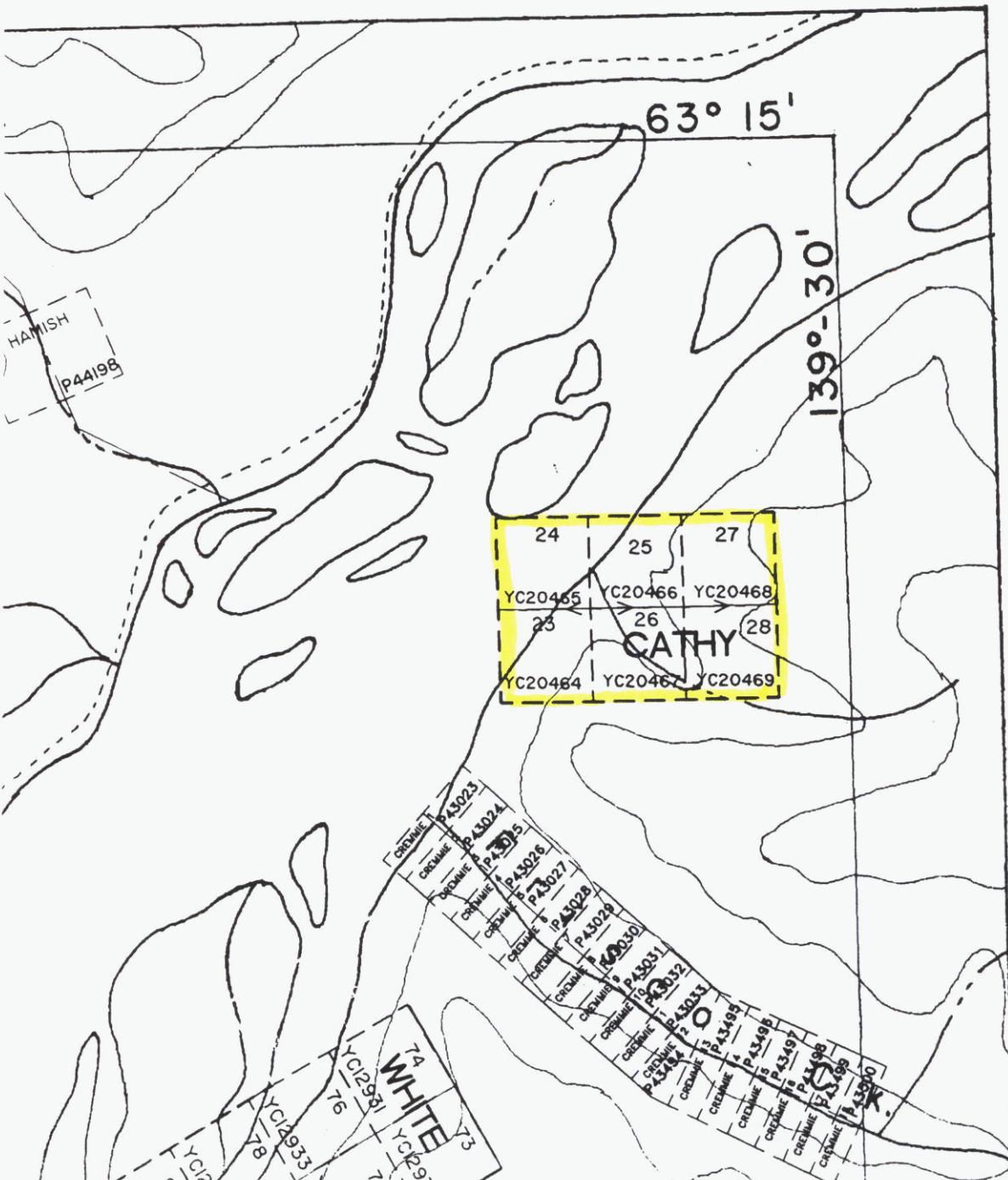
SHAWN RYAN

A handwritten signature in black ink, appearing to read 'Shawn Ryan', with a long horizontal flourish extending to the right.

115N-8	115O-5	115O-6
115N-1	115O-4	115O-3
115K-16	115J-13	115J-14

↑  
NORTH  
↓

NTS #  
115 0/4





139°40'

35'

1-50,000 30'

NORTH ↑

63°15'

1150010

TRENCH  
LOCATION

Yukon River

→ WHITE RIVER →

1150011

1150155

3/4

6 10

5

5

9

9

18

10

6

10

# WORK IN PROGRESS

## LATE CRETACEOUS TO EOCENE?



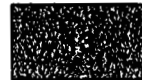
**PORPHYRY:** young, cross-cutting quartz-K-feldspar porphyritic rhyolite to rhyodacite stock; possible related to Carmacks volcanics

## 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



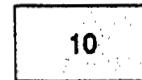
**GABBRO:** metagabbro (locally garnet bearing); diabase, metabasite

## 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**

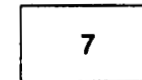


**MAFIC GNEISS:** intermediate to mafic orthogneiss; generally grey; banded to layered; commonly veined; derived from intermediate granitoid (tonalite to diorite) sheets; usually interlayered with amphibolite schist and gneiss

### Metavolcanic(?) and Volcaniclastic Rocks



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

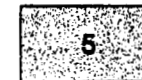


**QUARTZ-SERICITE SCHIST:** quartz-sericite schist or metafelsite, possibly derived from felsic volcanic or hypabyssal intrusive rocks, e.g. rhyolite or quartz-feldspar porphyry

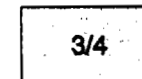


**AMPHIBOLITE:** amphibolite schist and gneiss; metabasite; usually containing garnet-hornblende-plagioclase or hornblende-plagioclase with local chlorite and biotite; local associated psammite or interlayering with orthogneiss; probably derived from mafic volcanic to volcaniclastic rocks; locally seen 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/PARAGNEISS UNITS UNDIVIDED**

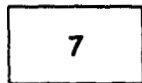


**9** **MAFIC GNEISS:** *intermediate to mafic orthogneiss; generally grey; banded to layered; commonly veined; derived from intermediate granitoid (tonalite to diorite) sheets; usually interlayered with amphibolite schist and gneiss*

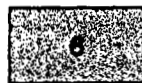
**Metavolcanic(?) and Volcaniclastic Rocks**



**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*

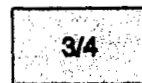


**6** **AMPHIBOLITE:** *amphibolite schist and gneiss; metabasite; usually containing garnet-hornblende-plagioclase or hornblende-plagioclase with local chlorite and biotite; local associated psammite or interlayering with orthogneiss; probably derived from mafic volcanic to volcaniclastic rocks; locally 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*



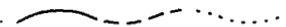
**2** **CONGLOMERATE:** *pebble to boulder sized rounded clasts; mainly massive buff white quartz, but some granitoid clasts as well (tonalite?); has an arkosic matrix; grades into quartzite*



**1** **QUARTZITE:** *banded to massive, grey to white quartzite; unclear if clastic in origin, or possibly derived from metachert; 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 .....

