## MINING CLAIM № 1221496

## MECHANICAL STRIPPING UNIT № 4 - 2005

## LOCATION:

Summers Township, southwest of the Municipality of Beardmore.

## Access:

From the Municipality of Beardmore, proceed north on Highway № 11 for a distance of 660 meters. Turn west onto a gravel road to the Transcanada Pipeline, a distance of approximately 1,500 meters. Continue northwest on the gravel road a distance of 1,600 meters onto the mining property.

## PURPOSE FOR THE PhYSICAL WORK PERFORMED (MECHANICAL STRIPPING):

The purpose for conducting the physical work was to follow up on a gold showing found during a mechanical stripping program in the 2004 prospecting season. A chip sample of 2.0 meters across a shear zone assayed 0.207 ounces of gold per ton. This warranted following up with additional mechanical stripping to determine whether or not the shear zone had any decent length or width.

## Style of Work Carried Out:

I used a G.P.S. (Garmin Map 76) and a compass (Silva) to locate the mechanical stripping to be carried out. A 300 Komatsu Excavator was used to conduct the mechanical stripping.

April 24: I assisted the operator of the excavator in the stripping process. I used a round mouth shovel to clean off some of the soil from the bedrock as there is always about 4 to 5 inches of soil left behind. This is due to the rugged contour and the broken up bedrock within this fault zone.

April 25: I assisted the operator of the excavator in the stripping process. I used a round mouth shovel to clean off some of the soil from the bedrock as there is always about 4 to 5 inches of soil left behind. This is due to the rugged contour and the broken up bedrock within this fault zone.

April 26: I assisted the operator of the excavator in the stripping process. I used a round mouth shovel to clean off some of the soil from the bedrock as there is always about 4 to 5 inches of soil left behind. This is due to the rugged contour and the broken up bedrock within this fault zone.

April 27: I assisted the operator of the excavator in the stripping process. I used a round mouth shovel to clean off some of the soil from the bedrock as there is always about 4 to 5 inches of soil left behind. This is due to the rugged contour and the broken up bedrock within this fault zone.

May 4: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 5: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 11: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 12: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 13: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 14: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 15: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 16: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 17: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 18: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 19: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 20: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

May 21: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

Nov. 1: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

Nov. 2: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

Nov. 3: I used a round mouth hand shovel to clean off some of the soil, where required, to expose the rocks or mineralization, if there was any. A five gallon pail was also used to carry some water needed to wash the rocks to expose some of the mineralization.

## DESCRIPTION OF MINERALIZED ZONE:

The zone is approximately 200 meters long by 12 meters wide and appears to continue to the northeast and also to the southwest. It is covered by 1 to 2 meters of overburden. The metavolcanic rocks strike approximately 68 degrees and are well sheared. The mineralized zone consists of disseminated arsenopyrite, pyrite and chalcopyrite. The gold was identified from samples assayed by two different labs. Further work needs to be carried out on this zone, possibly in 2006.

# SUMMERS TOWNSHIP (G-165) <br> Mining Claim № 1221496 Mechanical Stripping - 2005 Unit № 4 



## LEGEND



## INVOICE

JIM NICHOLS TRUCKING LTD

Nipigon, Ontario
Sold To:Shirley Lafontaine
Princess Lake
Beardmore, Ontario

| DATE | EQUIPMENT | DISCRIPTION | HOURS | RATE / hr | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| April 23, 2005 | Float | Float 300PC dozer from Nipigon to Beardmore | 6.00 |  |  |
| April 24, 2005 | 300 Komatsu | rental with operator | 10.00 | \$90.00 | \$540.00 |
|  |  | travel time | 10.00 2.00 | $\frac{\$ 110.00}{\$ 20.00}$ | \$1,100.00 |
| April 25, 2005 | 300 Komatsu | rental with operator | 9.00 | \$20.00 | \$40.00 |
|  |  | travel time | 2.00 | \$110.00 | \$990.00 |
| April 26, 2005 | 300 Komatsu | rental with operator | 8.00 | \$20.00 | \$40.00 |
|  |  | travel time | 2.00 | \$110.00 | \$880.00 |
| April 27, 2005 | 300 Komatsu | rental with operator | 9.50 | \$110.00 | \$ $\$ 40.00$ |
|  |  | travel time | 2.00 | \$20.00 | \$40.00 |
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| Operators |  |  |  |  |  |
| Operators |  | Nipigon, Ontario |  | tal Owing | \$4,715.00 |

## To Whom It May Concern

RE: Invoice from Jim Nichols Trucking Ltd., Nipigon, Ontario<br>SOLD TO: Shirley Lafontaine<br>LOCATION: Princess Lake, Beardmore, Ontario<br>Dated: May 4, 2005<br>TOTAL AMOUNT: \$4,715.00

This is to confirm that the work was carried out and that the amount is correct.


Phone №: (807) 887-3311


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## GEOSCIENCE LABORATORIES SAMPLE SUBMISSION FORM

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## SUMMERS TOWNSHIP

## MINING CLAIM № 1221497

## TRADITIONAL PROSPECTING - 2005

## LOCATION:

Summers Township, southwest of the Municipality of Beardmore.


#### Abstract

Access: From the Municipality of Beardmore, proceed north on Highway № 11 for a distance of 660 meters. Turn west onto a gravel road to the Transcanada Pipeline, a distance of approximately 1,500 meters. Continue northwest on the gravel road a distance of 1,600 meters onto the mining property.

\section*{PURPOSE FOR THE PHYSICAL WORK PERFORMED (PROSPECTING):}


This area has the potential of new gold showings. It is located approximately $21 / 4$ miles west of the old Northern Empire Mine which was a past producing gold mine on the same horizon. The old Buffalo Beardmore Mine's gold property, which has a shaft on it, is situated approximately 1.0 mile south-southeast of this property. The famous high grade past producing Leitch Gold Mine is situated a short distance to the north. What better place to search for a new producing gold mine.

## STYLE OF WORK CARRIED OUT:

I used a G.P.S. (Garmin Map 76) and a compass (Silva). The starting point begins at the northeast corner of Unit № 1 of mining claim № 1221497. From this location to the northwest corner of Unit № 4 is our north boundary which will be used to conduct our work of Unit № 1 to Unit № 4 of this mining claim. See Maps included at a scale of 1:20,000 and 1:5,000. Lines are drawn in a north-south direction, across formation, to prospect for rock exposures that may warrant work to be carried out. The mining claim was prospected by crisscrossing each individual control line by 50 meters each side (see detailed map at $1: 5,000$ ) to fully cover the mining claim. By this method of crisscrossing each individual control line every 25 meters, you get a much better coverage. For instance, by only prospecting the control line you would visually cover approximately $12 \frac{1}{2}$ meters on each side of each line, times two, as we're doing both sides of the line, for a total of 25 meters. The length of each line is 400 meters times the width of coverage of 25 meters which would give you 10,000 square meters. By crisscrossing each line, which is what was done in the field, you are able to cover 20,000 square meters instead of 10,000 square meters or the equivalent of at least half a mile on a straight line. See Map at a scale of 1:5,000 showing Crisscross Pattern Example of Control Line \#3. Eighty-five percent (85\%) of the mining claim is covered by heavy drift which is approximately 1 to 3 meters thick in this area, thereby, making it difficult to find rock outcrops.

September 3: UNIT № 1: I started from the northeast corner at the \#1 post of mining claim № 1221497 which is the \#1 location. I proceeded south on this line searching for bedrock and taking notes. At 233 meters and 23 meters west of this line, I noted a metasedimentary type bedrock. This bedrock appears to be barren of any mineralization. I continued south for a total of 400 meters to tie in to the line post. No other bedrock was noted.

## September 5: UNIT № 1: I started on Line \#2 and proceeded south on this line

 searching for bedrock and taking notes. At 270 meters and 19 meters to the east of this line, I noted a metasedimentary type bedrock. This bedrock appears to be barren of any mineralization. At 335 meters and 30 meters east of this line, I noted a metasedimentary type bedrock. This bedrock appears to be barren of any mineralization. I ended this line at 400 meters with bedrock noted.
## September 6: UNIT № 1: I started on Line \#3 and proceeded south on this line

 searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.
## September 7: UNIT № 1: I started on Line \#4 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

September 8: UNIT № 2: I started on Line \#5 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 350 meters at the shoreline of Princess Lake. There was no bedrock noted on this line.

## September 9: UNIT № 2: I started on Line \#6 and proceeded south on this line

 searching for bedrock and taking notes. At 33 meters and 25 meters west of this line, I noted a metasedimentary type bedrock. This bedrock appears to be barren of any mineralization. At 105 meters and 28 meters west of this line, I noted a metasedimentary type bedrock which also appears to be barren of any mineralization. At 110 meters and 2 meters east of this line, I noted a metasedimentary type bedrock which also appears to be barren of any mineralization. $I$ ended this line at 360 meters at the shoreline of Princess Lake.
## September 10: UNIT № 2: I started on Line \#7 and proceeded south on this line

 searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.
## September 12: UNIT № 2: I started on Line \#8 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 320 meters at the shoreline of Princess Lake with no bedrock noted.

[^0]September 15: UNIT № 3: I started on Line \#11 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 205 meters at the shoreline of Princess Lake with no bedrock noted.
September 16: UNIT № 3: I started on Line \#12 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 205 meters at the shoreline of Princess Lake with no bedrock noted.
September 17: UNIT № 3: I started on Line \#13 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 280 meters at the shoreline of Princess Lake with no bedrock noted.
$\begin{array}{ll}\text { September 19: } & \begin{array}{l}\text { UNIT No 4: I started on Line \#14 and proceeded south on this line } \\ \text { searching for bedrock and taking notes. I ended this line at } 400\end{array} \\ \text { meters with no bedrock noted. }\end{array}$
September 21: UNIT № 4: I started on Line \#16 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.
September 22: UNIT № 4: I started on Line \#17 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.
September 23: UNIT № 5: I started on Line \#1 and proceeded south on this line searching for bedrock and taking notes. At 45 meters and 25 meters to the west of this line, I noted a metasedimentary type bedrock. This bedrock appears to be barren of any mineralization. At 195 meters and 30 meters to the west of this line, I noted a diorite type bedrock. This bedrock appears to be barren of any mineralization. At 257 meters and 20 meters to the west of this line, a diorite type bedrock is noted. This bedrock appears to be barren of any mineralization. At 310 meters and 10 meters to the west of this line, a mafic metavolcanic type bedrock is noted. I ended this line at 400 meters with no other bedrock noted.

## September 24: UNIT № 5: I started on Line \#2 and proceeded south on this line

 searching for bedrock and taking notes. At 140 meters and 30 meters to the west of this line, I noted a metasedimentary type bedrock. This bedrock appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.September 26: UNIT № 5: I started on Line \#3 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

September 27: UNIT № 5: I started on Line \#4 and proceeded south on this line searching for bedrock and taking notes. At 186 meters and 19 meters to the east of this line, I noted a metasedimentary type bedrock. The bedrock appears to be barren of any mineralization. At 380 meters and 35 meters to the west of this line, a metasedimentary type bedrock is noted. The bedrock appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.
September 29: UNIT № 6: I started on Line \#5 and proceeded south on this line searching for bedrock and taking notes. At 138 meters and 8 meters to the east of this line, I noted a metasedimentary type bedrock. The bedrock appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.
September 30: UNIT № 6: I started on Line \#6 and proceeded south on this line searching for bedrock and taking notes. At 190 meters and 25 meters to the west of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

## October 3:

## October 4:

UNIT № 6: I started on Line \#7 and proceeded south on this line searching for bedrock and taking notes. At 90 meters and 40 meters to the west of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. At 145 meters and 10 meters to the east of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.
UNIT № 6: I started on Line \#8 and proceeded south on this line searching for bedrock and taking notes. At 210 meters and 25 meters to the west of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

## October 5:

Unit № 6: I started on Line \#9 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

## October 6:

UNIT № 7: I started on Line \#10 and proceeded south on this line searching for bedrock and taking notes. At 135 meters and 15 meters to the west of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

## October 7: UNIT № 7: I started on Line \#11 and proceeded south on this line

 searching for bedrock and taking notes. At 90 meters and 10 meters to the west of this line, I noted a metasedimentary type bedrock. The bedrock is sparsely mineralized with fine iron pyrites. At 143 meters and 11 meters to the east of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. At 250 meters and 10 meters to the east of this line, 1 noted a metasedimentary type bedrock which appears to be barren of any mineralization. At 350 meters and 13 meters to the west of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.October 8: UNIT № 7: I started on Line \#12 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.
October 10: UNIT № 7: I started on Line \#13 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

October 11: UNIT № 8: I started on Line \#14 and proceeded south on this line searching for bedrock and taking notes. At 313 meters and 25 meters to the east of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

## October 12:

October 13:
UNIT № 8: I started on Line \#15 and proceeded south on this line searching for bedrock and taking notes. At 75 meters and 35 meters to the west of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. At 363 meters and 38 meters to the west of this line, I noted a metasedimentary type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

UNIT № 8: I started on Line \#16 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

## October 14:

UNIT № 8: I started on Line \#17 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

## October 17:

October 18:
Unit № 9: I started on Line \#1 and proceeded south on this line searching for bedrock and taking notes. At 30 meters and 25 meters to the west of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

UNIT № 9: I started on Line \#2 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

October 19:

## October 21:

## October 24:

## October 25: <br> October 25:

## October 27:

October 28:

UNIT N ${ }^{2}$ 9: I started on Line \#3 and proceeded south on this line searching for bedrock and taking notes. At 253 meters and 40 meters to the west of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. At 290 meters and 15 meters to the west of this line, I noted a mafic metavolcanic type bedrock which appears to be barren of any mineralization. At 343 meters and 15 meters to the west of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. At 360 meters and 10 meters to the west of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.
UNIT N ${ }^{\circ}$ 9: I started on Line \#4 and proceeded south on this line searching for bedrock and taking notes. At 15 meters and 40 meters to the west of this line, I noted a mafic metavolcanic type bedrock which appears to be barren of any mineralization. At 70 meters and 15 meters to the east of this line, I noted a mafic metavolcanic type bedrock which appears to be barren of any mineralization. At 215 meters and 40 meters to the east of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.
UNIT № 9: I started on Line \#5 and proceeded south on this line searching for bedrock and taking notes. At 345 meters and 15 meters to the east of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

UNIT No 10: I started on Line \#6 and proceeded south on this line searching for bedrock and taking notes. At 190 meters and 50 meters to the west of this line, I noted a mafic metavolcanic type bedrock which appears to be barren of any mineralization. At 185 meters and 35 meters to the west of this line, I noted a mafic metavolcanic type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.
UNIT N ${ }^{9}$ 10: I started on Line \#7 and proceeded south on this line searching for bedrock and taking notes. At 370 meters and 35 meters to the west of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

UNIT № 10: I started on Line \#8 and proceeded south on this line searching for bedrock and taking notes. At 20 meters and 40 meters to the west of this line, I noted a mafic metavolcanic type bedrock which appears to be barren of any mineralization. At 265 meters and 15 meters to the west of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. At 365 meters and 20 meters to the east of this line, I noted a diorite type bedrock which appears to be barren of any mineralization. I ended this line at 400 meters with no other bedrock noted.

October 29: UNIT № 10: I started on Line \#9 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 400 meters with no bedrock noted.

## CONCLUSION:

This property has been quite a challenge to prospect due to a forest fire which devastated the area in 1999. The timber that was standing prior to 1999 is now blown down and crisscrossed making it hazardous to get around. The condition has become further complicated due to the heavy growth of young tag alders, hazel nut bushes, young saplings, etc. This new regeneration is about 9 feet tall making visibility, at times, less that 4 feet in distance.

The mechanical stripping went very well and we were able to expose a mineralized zone with very good gold potential. The property was visited by the Ministry of Northern Development and Mines' District Geologist, Mr. Gerry White. I am enclosing a copy of his report on this property for your file.

For the 2006 prospecting season, we plan further property exploration which will consist of additional prospecting and mechanical stripping.

# SUMMERS TOWNSHIP (G-165) 

Mining Claim № 1221497
Units № 1 and № 2

$\psi=\underset{\substack{\text { Traverses, Lines of Direction as indicated on Map } \\ \text { (also used as Control Lines) }}}{\text { Ma }}$
$X=$ Rock Outcrop
$c=C L A y$
N = SWAMP OR NILSKLEG

## SUMMERS TOWNSHIP (G-165)

Mining Claim № 1221497
Units № $\mathbf{3}$ and № $\mathbf{4}$


TRUG NONEt


## LEGEND

## SCALE

4 = Corner Post and N ${ }^{2}$
$=$ Line Post
(9) $=$ Traverse Line №

$=$ Traverses, Lines of Direction as indicated on Map (also used as Control Lines)
$X=$ Rock Outcrop
$C=C C A Y$

# SUMMERS TOWNSHIP (G-165) 

Mining Claim № 1221497
Units № 5 and № 6


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## LEGEND

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$X=$ Rock Outcrop
$C=C L A Y$


TRUE NORTH


LEGEND
SCALE
1:5,000

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| 10 | Traverse Line $\mathrm{N}^{2}$ |

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& \text { TY A }=\text { ROCK }
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$=$ Traverses, Lines of Direction as indicated on Map (also used as Control Lines)
$X=$ Rock Outcrop
$C=C C A y$


TRUENGOTH


## LEGEND

## SCALE

$=$ Line Post
(2) $=$ Traverse Line $N^{e}$

$M=$ META SEDIMENTARY
THE ROCK
$D=D$ NORITE TH P $=$ BEDROCK
$=$ Traverses, Lines of Direction as indicated on Map (also used as Control Lines)
$X=$ Rock Outcrop

# SUMMERS TOWNSHIP (G-165) 

Mining Claim № 1221497
Units № 9 and № 10



$=$ Line Post
(2) Traverse Line Ne


$$
\begin{aligned}
& M=\text { MPETASEDIMENTARY } \\
& \text { THPEROCK } \\
& D=D I O R I T E \text { TYPE BEDROCK }
\end{aligned}
$$

$=$ Traverses, Lines of Direction as indicated on Map
(also used as Control Lines)
$X=$ Rock Outcrop
$C=C C B A$

## Lafontaine-Princess Lake Occurrence

The Lafontaine-Princess Lake occurrence is located in the southwestern portion of Summers Township within the Princess Chain of Lakes area, approximately 3.5 km west of Beardmore. Access is via the waste disposal road on the northern edge of Beardmore, west for 5.5 km along an old bush road to a point approximately 100 m north of the occurrence. The main showing, situated in the northeastern portion of claim TB 1221496, was exposed during a 2005 backhoe stripping and sampling program conducted by prospector and property owner, A. Lafontaine of Beardmore.

The southwestern part of Summers Township was the focus of extensive exploration activity in the 1930s. From 1935 to 1939, numerous, vein-related gold occurrences were discovered and worked within this portion of the southern volcanic subbelt (SVB; Hart et al. 2002). A considerable amount of both surface and underground exploration work was conducted on the Anglo-Beardmore and Buffalo-Beardmore Gold Mine occurrences. Buffalo-Beardmore Gold Mines Ltd. sunk a 24.4 m ( 80 -foot) shaft and completed over 3048 m ( 10000 feet) of diamond drilling. Gold mineralization in this area is characterized by pyrite, pyrrhotite, chalcopyrite and up to $40 \%$ arsenopyrite in quartz and quartz-carbonate veins. These veins crosscut altered mafic metavolcanic flows and banded chert-magnetite iron formation (Hart et al. 2002). The C.J. Morgan occurrence is located approximately 400 m northeast of the Lafontaine-Princess Lake property and consists of several bands of iron formation. Initial work in 1938 led to the discovery of visible gold from a large gossan containing 5 quartz-carbonate veins that returned assays of 1.2,3.1 and 8.4 ounces Au per ton (Resident Geologist's Files, Thunder Bay North District, Thunder Bay). Mapping and sampling of the Morgan showing by Bent (1989) for Glen Auden Resources Inc. confirmed the presence of a significant arsenopyrite-pyrrhotite-mineralized zone in sulphide- and/or oxide-facies iron formation within sheared mafic metavolcanic rocks. Narrow, discontinuous, quartz veinlets and stringers occur within this hydrothermal alteration zone. Grab samples collected on the Morgan property returned as much as 5900 ppb Au (Bent 1989). Also active during this period of time was the Northern Empire Mine, which produced approximately 149000 ounces of gold from 1934 to 1941 (Speed and Craig 1992). The mine is located 5.5 km northeast of the Lafontaine-Princess Lake ground, along strike and within the same package of rocks (SVB). Very little activity occurred again in the area until 1981 when Gold Fields Resources Canada Limited conducted an extensive ground magnetometer and electromagnetic survey over a large property covering many of the aforementioned occurrences. Following an airborne magnetometer and electromagnetic survey completed by Legion Resources Ltd. in 1986, the property was subsequently optioned to joint-venture partners Golden Dragon Resources Ltd. and Glen Auden Resources Inc. in 1989. This became part of a larger land package extending westward across two townships and into Lake Nipigon. Geological mapping, stripping, trenching, and ground electromagnetic and induced polarization geophysical surveys were completed. In 2005, current property owner, A. Lafontaine, conducted a prospecting, stripping and sampling program on a group of claims, now referred to as the Princess Lake property (Resident Geologist's Files, Thunder Bay North District, Thunder Bay).

The Lafontaine-Princess occurrence lies along and within the northwestern portion of the SVB (Hart et al. 2002), which is part of the main east-trending Beardmore-Geraldton Belt. This belt forms the southern margin of the Wabigoon Subprovince, which is bounded to the south by metasedimentary rocks of the Quetico Subprovince. Hart (2002) indicated that previous interpretations (Benedict and Titcomb 1947; Shanks 1993) placed the Empire Fault (which transects the Northern Empire Mine) adjacent to the northern edge of the SVB in western Eva Township and extended it through the Princess Chain of Lakes in eastern Eva and Summers townships. A reinterpretation of the area by Hart (2002) resulted in the separation of the original Empire Fault into two distinct faults: the Empire Fault to the south and the Princess Lake Fault to the north. The Princess Lake Fault is parallel to the trend of the Princess Chain of Lakes, striking $060^{\circ}$ through the southern portion of the southern sedimentary subbelt (SSB). This fault is evident in the area around the Princess Chain of Lakes where an increase in deformation is manifested as more intensely developed shear fabrics within the metavolcanic and metasedimentary rocks (Hart et al. 2002).
The main gold-mineralized zone on the Lafontaine-Princess Lake property is exposed in a 12 m wide by 190 m long stripped area along a prominent southwest-trending, north-facing ridge. The exposed bedrock
consists of moderately to intensely sheared and gossanous, pillowed metavolcanic rocks that strike approximately $068^{\circ}$ and dip steeply north. Highly stretched pillows were noted along a nearby, north-facing ridge, outside of the main stripped area. Scattered throughout the metavolcanic host rocks are bands of sulphidized, oxide-facies, cherty, banded iron formation, locally crosscut by quartz-carbonate veins. Sulphide mineralization associated with the iron formation consists of lenses or seams of coarse-grained, euhedral arsenopyrite and massive, fine-grained pyrite up to 1 cm thick. The mineralized zone averages $1 \%$ finely disseminated arsenopyrite, pyrite and minor chalcopyrite. Grab samples collected by staff of the Thunder Bay North Resident Geologist's Office during a 2005 property visit returned up to $5.27 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ from sulphide-rich, iron formation. A sample collected from sheared mafic metavolcanic rock returned 303 ppb Au. Samples collected by A. Lafontaine from the main stripped area returned up to 0.25 ounce Au per ton (Resident Geologist's Files, Thunder Bay North District, Thunder Bay).

The portion of the Princess Lake Fault extending across the northern half of the Lafontaine property should be a focus for further exploration. The increase in deformation associated with this structure, which is parallel with the boundary between the SVB and SSB, makes this area highly prospective for gold. The greenstone belt rocks adjacent to the fault, in particular those near known gold occurrences, should be prospected. Special attention should be paid to any gossans or sheared banded iron formations.

## REFERENCES:

Benedict, P.C. and Titcomb, J.A. 1947. Geology of the Northern Empire Mine; The Canadian Institute of Mining and Metallurgy Bulletin, v.50, p.412-423.

Bent, H. 1989. Geological Report of the Summers Township Property for Golden Dragon Resources Ltd. and Glen Auden Resources Inc., Summers Township, Thunder Bay Mining Division, Ontario; Unpublished Report, Thunder Bay Resident Geologist's Office, Thunder Bay North District, Assessment Files, 33p., NTS 42E12/NW.

Hart, T.R., terMeer, M. and Jolette, C. 2002. Precambrian Geology of Kitto, Eva, Summers, Dorothea and Sandra Townships, Northwestern Ontario: Phoenix Bedrock Mapping Project; Ontario Geological Survey, Open File Report 6095, 206p.

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Figure : Location of the Lafontaine-Princess Lake Occurrence. SSB - Southern Sedimentary Subbelt; SVB

- Southern Volcanic Subbelt; PLF
- Southern Volcanic Subbelt; PLF - Princess Lake Fault; EF - Empire Fault; BF - Blackwater Fault




[^0]:    September 13: UNIT № 2: I started on Line \#9 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 260 meters at the shoreline of Princess Lake with no bedrock noted.
    September 14: UNIT № 3: I started on Line \#10 and proceeded south on this line searching for bedrock and taking notes. I ended this line at 240 meters at the shoreline of Princess Lake with no bedrock noted.

