

2 349 50

# PROSPECTING - MAPPING REPORT

for the

## SCHREIBER PYRAMID AREA

Priske Township  
NTS 42 D/14

**RECEIVED**  
FEB 07 2003  
GEOSCIENCE ASSESSMENT  
OFFICE

D. G. Courtney BSc Geology

April 2002



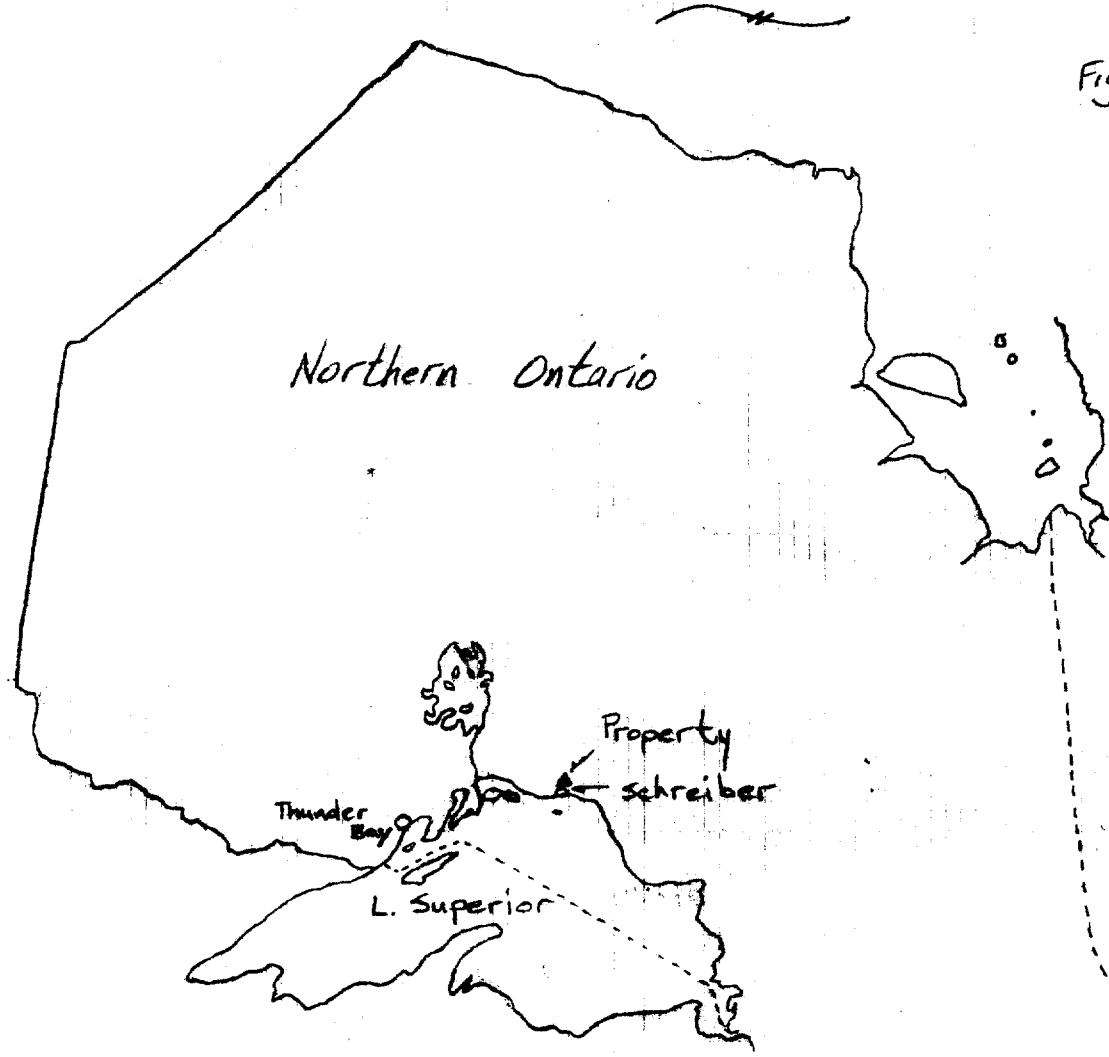
42D14SE2011 2.24960 PRISKE

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Schreiber Pyramid/McKenna McCann Properties  
General Location

Figure 1



0 50 100 200  
kms

2 24960  
2

## INTRODUCTION

This report details the work done during July/August of 2001 on the Schreiber Pyramid property, north of the town of Schreiber in northern Ontario. The purpose of this prospecting/mapping/sampling was to investigate the potential of developing a small scale gold mining operation.

## WORK DONE

Five days were spent on the property by the author and two days assistance was had by prospector George Daniels of Terrace Bay Ont. Four substantial quartz veins were mapped and sampled in detail. Location was via compass and chain, and GPS (NAD 27). A total of 18 lithogeochemical samples were collected, 18 were assayed for Au, Ag, Cu, Zn, P, and Pd, 10 were sent for multi element analyses by ICP-ES (see appended Certificates of Analysis). Sampling was concentrated on Quartz veins and locally altered or mineralized host rock. general prospecting and mapping of the area was carried out.

## LOCATION and ACCESS

The property is located approximately 4kms northeast of the town of Schreiber in Northern Ontario, which is situated on trans Canada highway 17 and the CNR railway. The topography of this area is typical to this region of the north shore of Lake Superior being very rugged, with steep hills/cliffs. The area has several distinct faults represented by valleys containing creeks, streams, and small lakes. The glacial overburden is shallow on the hills and several meters thick in the valleys. This yields a percentage of surface bedrock exposure. The vegetation is mature spruce, balsam, birch, poplar, cedar, and locally dense alder. Access was gained via the "Cook's lake road" which is navigable by quadrunner or snowmobile. Traveling the 7.5 kms to the property may be possible by 4x4 truck, however, Big Duck Creek would need to be forded, as the bridge now in place only supports these lighter vehicles.

The work performed here encompasses an area that lies entirely within the claim block #1218345 in Priske township. The claim is held 100% by R&K Sales of Downsview Ont., and is in good standing.

## HISTORY

The property was first developed by Schreiber-Pyramid Gold Mines Ltd. during 1935-36. In the summer of 1937 the property was taken over by Kennocho Gold Mines Ltd. who trenched/stripped 6 separate quartz veins as well as driving an adit into the number one vein. With the two 25TPD amalgam mills that were installed in 1936, approximately 150 tons were reportedly processed recovering 76.5 ounces of gold. (ave. grade of 0.56 oz/ton).

A minor amount of drilling was reported in 1938 on the #1 veins, but results are unknown. The mining rights were cancelled in 1951.

In 1969 Zenmac Metal Mines diamond drilled 797 feet with five holes to test a zinc showing near the # 2 vein. Hole number GP-1 returned 4.56% Cu and 19.2% Zn over 1.8 feet at a depth of 50 feet.

In 1992 Prospecting, stripping, and sampling was carried out by Timothy J. Twomey under an OPAP grant, in order to better assess the possibility of small scale gold mining. Results were encouraging but no further work was done.

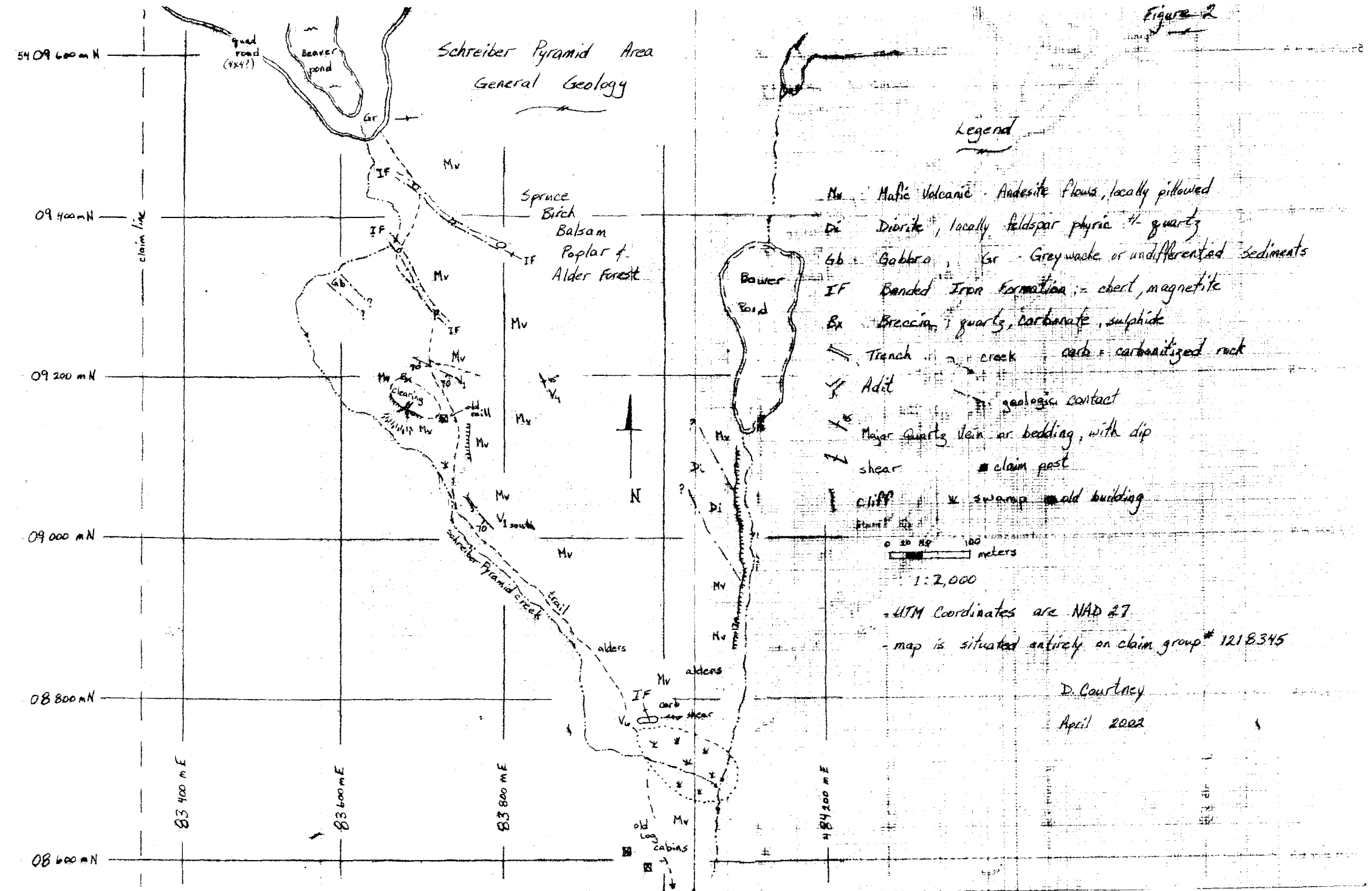
Other previous small scale gold producers local to this area include, the neighboring McKenna McCann, the Gold Range mine, Walter Acker's mine, the North Shore Mines, the Empress mine, and more.

## GENERAL GEOLOGY

The project area lies within the Schreiber-Hemlo greenstone belt and represents a portion of the Abitibi-Wawa subprovince of the Superior province. The (productive) Abitibi-Wawa subprovince is a supracrustal east-west trending metavolcanic-metasedimentary sequence which has been intruded by granitic-syenitic plutons and gabbroic dikes and sills.

The Schreiber portion of the belt is approximately 70 kms long and 25 kms wide. The western portion of the belt is composed of two limbs, separated by the Crossman Lake Batholith, forming an east-west trending regional anticline. The northern limb; the Big Duck Lake volcanic belt is approximately 35 kms long and 10 kms wide, while the southern is approximately 50 kms long and 10 kms wide. The project area lies within the southern limb. This belt of rocks plays host to mines such as Hemlo, Geco, Winston Lake, and a host of other smaller deposits too numerous to mention.

Figure 2



Schreiber Pyramid Area  
General Geology

Legend

- Mv Mafic Volcanic - Andesite flows, locally pillowed
- Di Diorite, locally feldspar phric +/- quartz
- Gb Gabbro, Gr Greywacke or undifferentiated sediments
- IF Banded Iron Formation - chert, magnetite
- Bx Breccia, quartz, carbonate, sulphide
- Trench creek carb = carbonitized rock
- Adit
- Major quartz vein or bedding, with dip
- shear
- cliff
- swamp
- old building
- claim post
- geologic contact

0 20 40 100  
meters

1:2,000

UTM Coordinates are NAD 83  
map is situated entirely on claim group # 1218345

D. Courtney  
April 2002



host  
rock

quartz  
vein



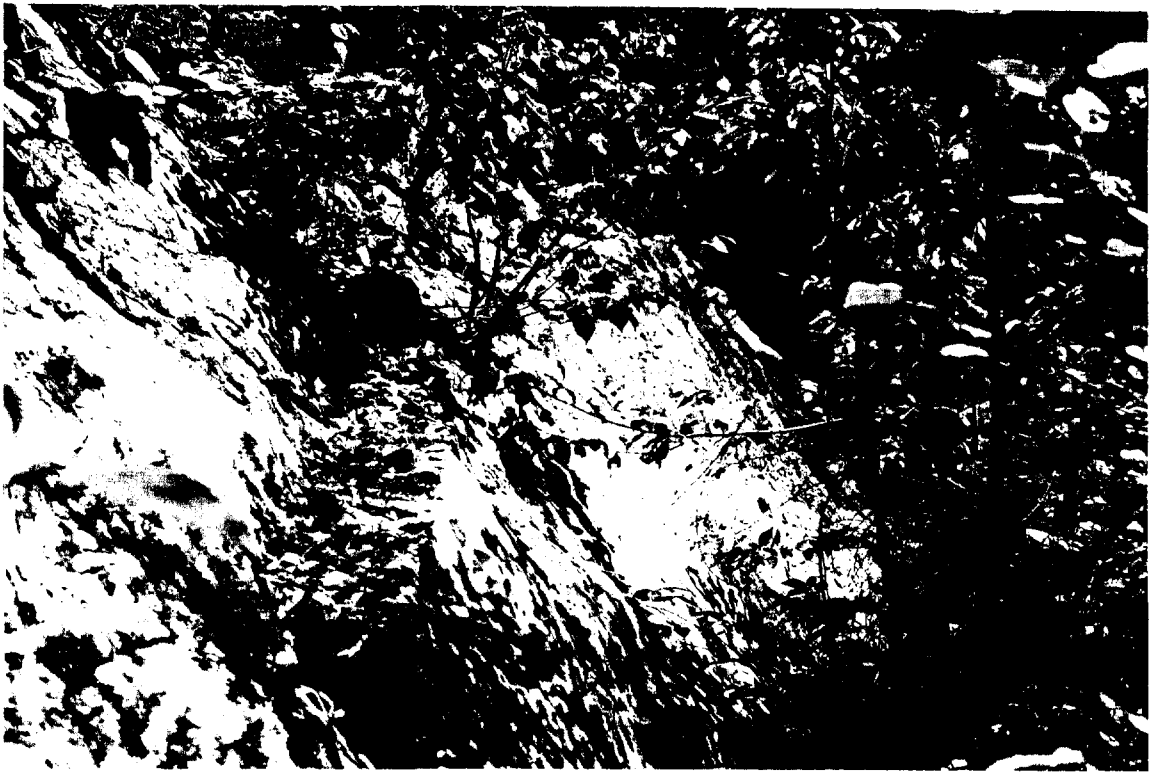
Top of Adit to vein #1

- bottom is buried in rubble

dip ↙  
vein #1

- ledge is surface exposure  
of quartz vein

Plate 1



Vein Thickness (10")      Vein # 1 (South)

↘ 70° dip



03 stringer

- white is quartz vein  
- hammer is 30" long

Vein # 4 (north end)



## LOCAL GEOLOGY

The main rock type hosting the Schreiber-Pyramid veins and area is a mafic metavolcanic flow (andesite-basalt). This dark green fine grained rock is typically massive but can be strongly foliated within faults and shears. Alteration assemblages in these areas include chlorite, sericite, silica, carbonates, and sulphides. Locally widespread carbonitization is witnessed in the southern Vein # 6 area. The 4 veins investigated were all hosted by this mafic unit. Other rock types immediate to the area include: -a bedded east west trending greywacke in the north

- a gabbroic dike virtually northeast and coincident along strike to Vein # 1
- silicate (chert-magnetite) banded iron formation, which is probably locally tightly folded, but trends similarly to the Big Duck -Schreiber

Pyramid faults.

- a 20 foot wide quartz-porphry dike associated with a 10 degree regional fault. (The 10 degree fault) Vein # 5 area (which wasn't visited)
- a broad dioritic dike cuts the mafic volcanics in the west of the area trending northwesterly. This intrusion is generally massive, medium grained and locally quartz phyrlic. (See Figure 2)

### Structure

The Schreiber Pyramid is aptly named. Three main structural trends are apparent and the resultant topography (creeks and small lakes) creates a triangular 'boundary' hosting the vein systems. In the west is the northwest striking Schreiber -Pyramid fault and creek, which is parallel to the nearby Big Duck fault and creek. To the east is the '10 degree fault and cliffs. In the north is a nearly east-west regional fault which is concordant with the bedding of the sediments and the shearing in Vein #6 area. These main structures are accompanied by parallel secondary structures which may not be as obvious with topography, but remain critical to vein emplacement.

There appears to be at least four episodes of both brittle and ductile deformation, and no doubt locating these structures in three dimensions, understanding their relative timing, nature, pinch and swell, and how they intersect each other, will in turn aid any discovery of new gold bearing quartz veins, or the extensions to existing ones. There are indications that the banded iron formation is locally tightly folded, and as such the nose of these folds may represent zones of dilatancy, facies change, and gold enrichment. The reported altered and veined QFP in vein # 5 area may represent a different style of gold deposition.

### Veining

Historically there are seven known significant quartz +/- gold veins. As of yet veins #2 and #5 have not been visited by the author. All records for vein #3 are lost and its location and history is unknown.

Vein # 1 (north) is exposed on surface along the face of a steeply dipping outcrop

LOCAL GEOLOGY (continued)

of mafic volcanics. It is 11 meters long, 3 meters high along the dip face and averages a quite consistent 25cm (10") width. This vein strikes 115 degrees (similar to the Schreiber-Pyramid and Big Duck faults) and dips 70 degrees to the south west. The hanging wall contact and host rock to this exposure has been eroded away. The chloritic, sheared, and weakly mineralized footwall contact (1-3cm) was assayed and found to carry 0.27 Oz/t AU. This may prove beneficial in any mining efforts. The vein itself is bullish, grey/pinkish quartz which is highly and finely fractured. Locally cm wide tourmaline/quartz veinlets cross-cut the main vein. Sulphide and gold mineralization remains somewhat sporadic and varied. Of the 6 samples taken, values ranged from 0.24 Oz/t. To 2.48 Oz/t. Au. Only one trace of galena was found but a very impressive sample of quartz carrying very high grade visible gold was found at this vein. The mineralization appears mostly as coatings along micro -fractures, and the free gold can be very very fine, to locally very visible. (see Figure 3)

Vein # 1 (south) This vein is located approximately 200 meters south-southeast of #1 north. It has a similar strike, virtually identical dimensions of exposure, with the hanging wall eroded away, and consistent 25cm thickness. Again it strikes 115 degrees and dips 70 degrees to the southwest with the hanging wall eroded away. Also the bull quartz is of similar color and degree of fracturing and mineralization and grade. As such this vein was thought to be a continuation of #1 north. This may be true but given the 115 degree strike between them a fault offset(s) is needed to explain the non continuous line. Along strike to the north of the exposed vein is an old trench for some 25 meters. Although mostly buried and requiring cleaning out vein material was witnessed at one spot on the trench floor. In this area alteration, foliation and mineralization is very minor. (see Figure 4). Of the 7 samples taken, values ranged from 0.072 Oz/t – 0.33 Oz/t AU

Vein # 4 This vein strikes 347 degrees and dips 45 degrees westerly. Five grab samples from the vein and immediate host rock obtain values of 0.07 Oz/t. Twomey has reported gold values of up to 0.03 oz/ton. It is exposed on surface for approximately 50 meters along an old stripping. It varies in width from 20 cm to nearly 1 meter (see Figure # 4). The vein is white bull quartz containing 1-2% Py which has been oxidized on surface. The host rock is a mafic volcanic flow which is moderately to strongly chloritized in the vicinity of the vein. It is also somewhat stained with FeOx's. It appears this system is not as strongly mineralized with gold.

Vein # 6 Vein # 6 is more of an alteration and shear zone than a vein, near the intersection of the S-P fault and 10 degree fault. A 150 x 150 area was stripped in 1989 by Placer Dome, because of an old trench which reportedly returned 0.18 oz/ton gold over one meter. The stripping displays a 15 meter wide shear zone

### LOCAL GEOLOGY (continued)

which trends near east-west and dips near vertical. The host material is mafic volcanic which is strongly chloritized within the shear, and pervasively carbonitized over a broad area. Central to this stripping is a 15 meter wide banded iron formation which has been strongly oxidized and strikes north-south and dips vertically. The western end displays stringer quartz infilling small en-echelon fractures. This quartz appears mostly barren, however, very fine gold has been observed under magnification.

### RECOMMENDATIONS and CONCLUSIONS

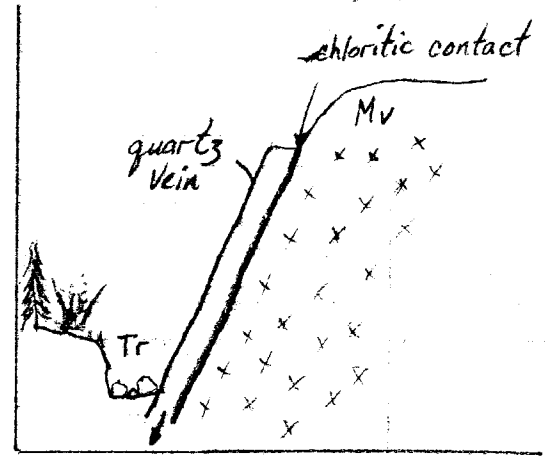
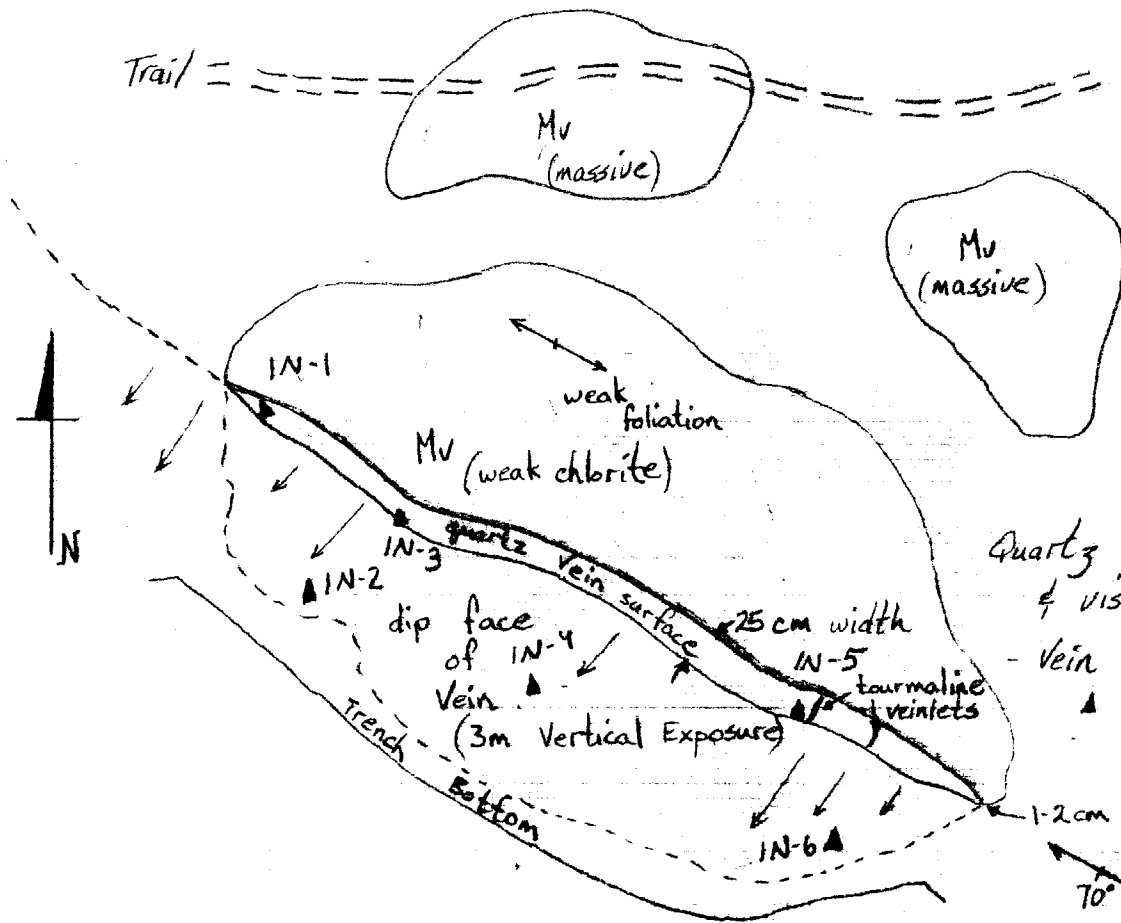
Some of the quartz vein systems in the Schreiber-Pyramid area display excellent potential for containing high grade free gold, and possibly small scale mining. Veins numbered 2 and 5 should be located mapped and sampled in detail. The reported QFP in vein # 5 area may represent a larger gold deposition target. The existing veins need to be tested along strike and down dip. Structure plays a key role in locating these systems and as such a VLF - magnetic survey is recommended to help locate these faults and shears, there intersections and any offsetting. Detailed geological mapping of the area is also recommended. Mapping of the adit could prove informative providing a level of safety is maintained. A program of diamond drilling may be needed to outline any ore or possible tonnage. Closely spaced, shallow holes are recommended in following the veins. An open mind as to the pinch and swell, offsetting, variable nature of gold mineralization, and nugget effect may also be required when considering gold grades in drill core and the size of any orebody.

Schreiber Pyramid Area

Figure 3

Vein # 1 (north)

Cross Section  
Looking North West



Quartz vein contains Py, minor Galena, calcite  
& visible gold in sporadic concentrations  
- vein was grab sampled in detail  
▲ sample location

0 1 2 3 4 5 meters

1:100

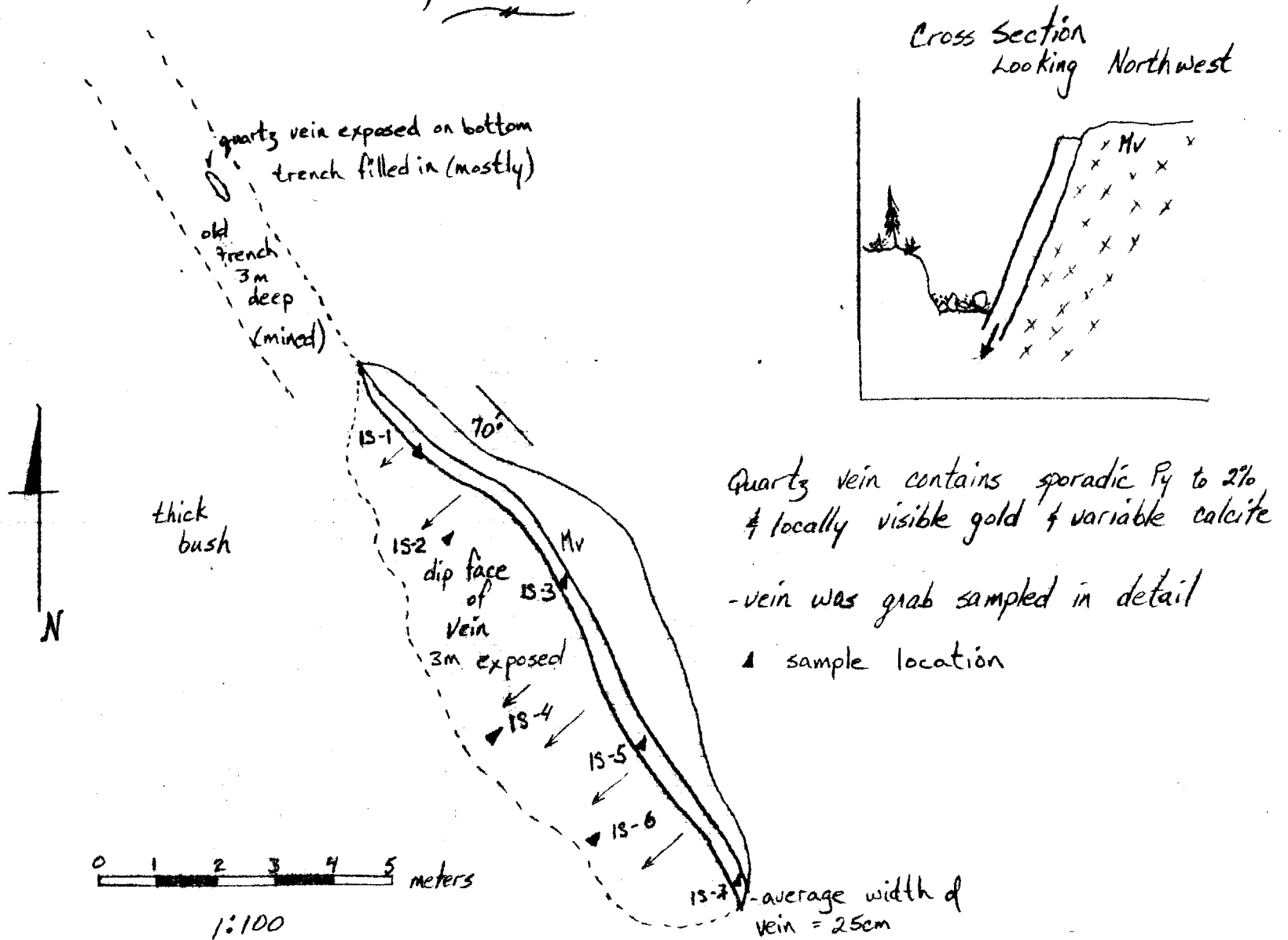
Mv = Mafic Flow - Andesite

D. Courtney

drawn: April 2002

Figure 4

Schreiber Pyramid Vein #1 (South)



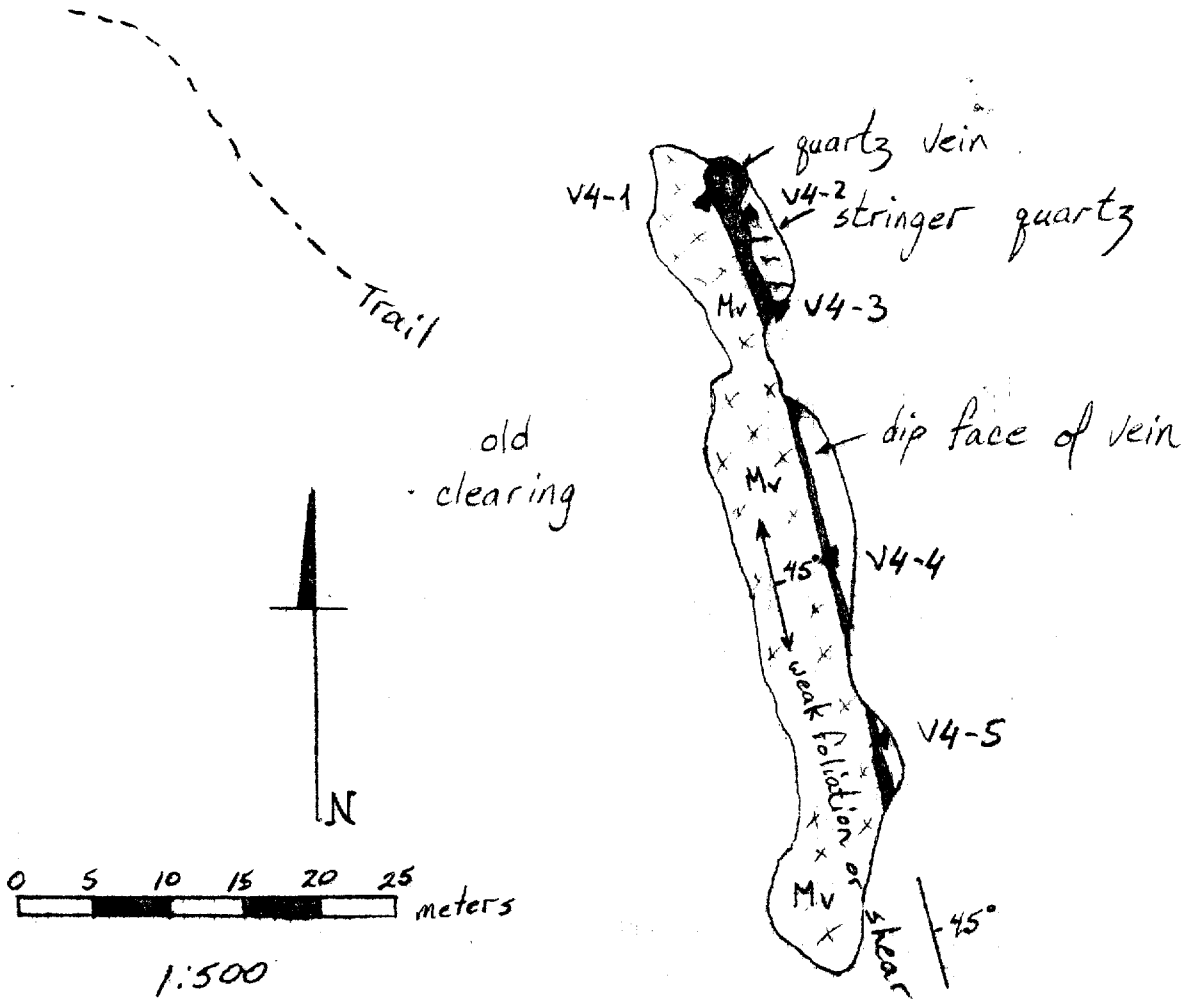
Mv = Matic flow - Andesite

D. Courtney,  
drawn: April 2002

Figure 5

Schreiber Pyramid Area

Vein #4



Mv = Mafic Volcanic, mod → strongly chloritized with moderate FeOx staining and pitting (weathered sulphides)

Quartz vein contain 1-2% Py which is mostly oxidized on surface

▲ sample location

D. Courtney  
drawn: April 2002

STATEMENT of QUALIFICATIONS

I, Daniel G. Courtney do hereby certify:

- I am a resident of Kaministiquia Ontario Canada, with address RR#1  
Kaministiquia Ont. P0T 1X0
- I have been engaged in mineral exploration as a geologist since 1984.
- I have graduated from Lakehead University with a BSc geology degree.
- I have not received , directly or indirectly, or expect to receive any  
interest in the company and its properties.

Signature *Dan Courtney*

Name *Daniel G. Courtney*

Date *April 28, 2002*



Established 1928

# Swastika Laboratories Ltd

Assaying - Consulting - Representation

## Assay Certificate

1W-2169-RA1

Company: **R&K SALES LTD**

Date: SEP-27-01

Project:

Attn:

We hereby certify the following Assay of 30 Rock samples submitted SEP-20-01 by .

Sample Number	Au g/tonne	AuCheck g/tonne	Au mg	Ag mg	Ag g/tonne	Cu %	Zn %	Pt g/tonne	Pd g/tonne
SP 26	61.37	65.83	-	-	2.9	-	-	-	-
SP 27	0.34	-	-	-	0.1	-	-	-	-
SP 2000	3.94	-	-	-	0.5	-	-	-	-
SP 2001	5.11	-	-	-	0.3	-	-	-	-
SP 2002	0.22	-	-	-	0.2	-	-	-	-
SP 2003	38.40	36.82	-	-	1.0	-	-	-	-
SP 2004	20.02	-	-	-	1.0	-	-	-	-
SP 2005	0.13	-	-	-	0.3	0.077	0.028	<0.005	<0.005
SP 2030	0.01	-	-	-	-	-	-	<0.005	<0.005
SP 9000	0.07	-	-	-	-	-	-	<0.005	<0.005

One assay ton portion used for Au where sample size permits.

Certified by

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244 Fax (705) 642-3300



SAMPLES  
FOR  
SWASTIKA ASSAY

NOVEMBER 2001

#	Sample #	Claim	SWASTIKA LAB SAMPLE REFERENCE #	AU GR/T
1	1S-1	1218345	SP27 - SWASTIKA	0.34
2	1S-2	1218345	SP2000 SWASTIKA	3.94
3	1S-3	1218345	SP2001 - SWASTIKA	5.11
4	1S-4	1218345	SP2002 - SWASTIKA	0.22
5	1S-5	1218345	SP2005 - SWASTIKA	0.13
6	1S-6	1218345	SP2030 - SWASTIKA	0.01
7	1S-7	1218345	SP9000 - SWASTIKA	0.7
8	1N-1	1218345	SP2004-SWASTIKA	20.02
9	1N-3	1218345	SP26-SWASTIKA	61.37
10	1N-5	1218345	SP2003 - SWASTIKA	38.4

#	Sample #	Claim	Method #	AU OZ/T
1	1S-1	1218345	6	0.175
2	1S-2	1218345	6	0.23
3	1S-3	1218345	6	0.33
4	1S-4	1218345	6	0.083
5	1S-5	1218345	6	0.072
6	1S-6	1218345	6	0
7	1S-7	1218345	6	0
8	1N-1	1218345	6	1.12
9	1N-2	1218345	6	0.27
10	1N-3	1218345	6	2.48
11	1N-4	1218345	6	0.45
12	1N-5	1218345	6	2.15
13	1N-6	1218345	6	0.247
14	V4-1	1218345	6	0.071
15	V4-2	1218345	1	0.064
16	V4-3	1218345	1	0
17	V4-4	1218345	6	0.067
18	V4-5	1218345	1	0



Date: 2003-APR-10

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

SAM KRAVCHIK  
117 THORNBRIDGE DRIVE  
THORNHILL, ONTARIO  
L4J 1F1 CANADA

Tel: (888) 415-9845  
Fax: (877) 670-1555

**Submission Number:** 2.24960  
**Transaction Number(s):** W0340.00212

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

NOTE: All future submissions will credit the analysis at a cost similar to those of a commercial lab.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by phone at (705) 670-5856.

Yours Sincerely,



Ron Gashinski  
Senior Manager, Mining Lands Section

**Cc:** Resident Geologist

Sam Kravchik  
(Claim Holder)

Assessment File Library

Sam Kravchik  
(Assessment Office)

Date / Time of Issue: Wed Apr 09 09:17:54 EDT 2003

TOWNSHIP / AREA  
PRISKE

PLAN  
G-0631

ADMINISTRATIVE DISTRICTS / DIVISIONS

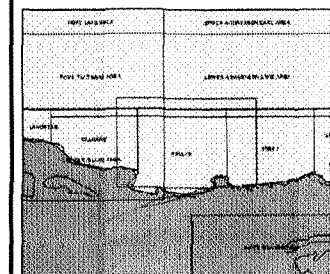
Mining Division Thunder Bay  
Land Titles/Registry Division THUNDER BAY  
Ministry of Natural Resources District NIPIGON

TOPOGRAPHIC

- Acquisitive Boundaries
- Township
- Concession Lot
- Proposed Park
- Water Reserve
- CRP P.A. Fire
- Channel
- Misc. Ditch
- Man-made Stream
- Railway
- Road
- Ham
- Natural Gas Pipeline
- Utility
- Tower

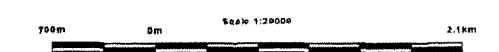
Land Tenure

- Surface And Mining Right
- Surface Rights Only
- Mining Rights Only
- Enclosed Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Location of Occupation
- Under Not Specified
- Surface And Mining Right
- Surface Rights Only
- Mining Rights Only
- Land Use Permit
- Order In Council - Not open for bidding
- Water Power Lease Agreement
- Mining Claim
- First Class Mining Claims



LAND TENURE WITHDRAWALS

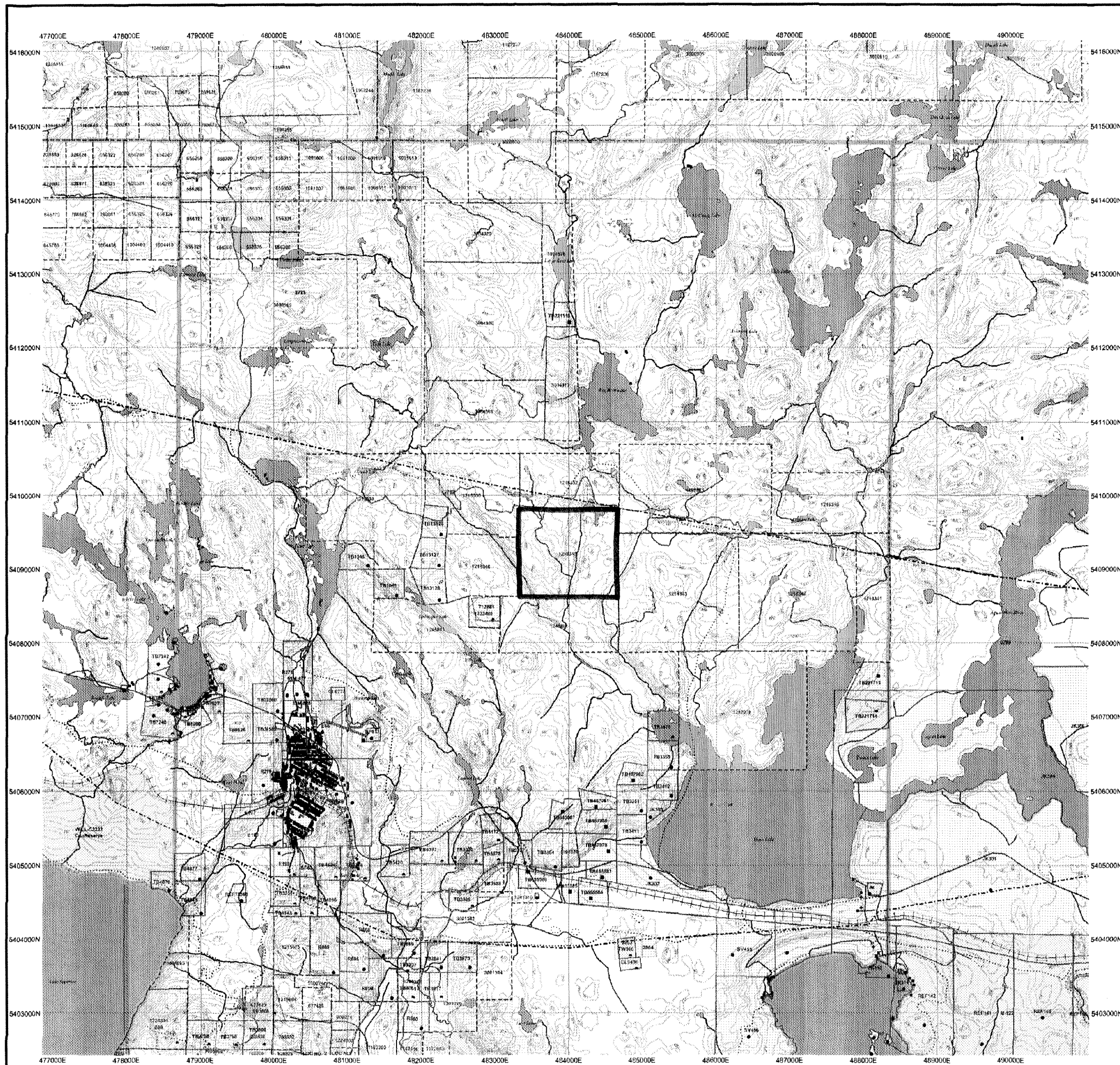
- 1201 Areas Withdrawn From Discussion
- Mining Act Withdrawal Types
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Order In Council Withdrawal Types
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Water Power Lease Agreement
- Mining Claim
- First Class Mining Claims



LAND TENURE WITHDRAWAL DESCRIPTIONS

Number	Type	Date	Description
2720	Water	Jan 1, 2001	SURFACE RIGHTS WITHDRAWN FROM STAKING. POTENTIAL LOCATION FOR OPP.
2722	Water	Jan 1, 2001	RESERVE FLOODING RIGHTS TO CONVEY TO E.S.C. ON A DRAINAGE BASIN IN E.
2724	Water	Jan 1, 2001	FLOODING TO M.E.C. TO CONVEY TO THE ASSUMPTIONS AND THE DUCK.
2876	Water	Jan 1, 2001	STAKING MAY BE HELD BY THE ASSUMPTIONS AND THE DUCK.
2902	Water	Jan 1, 2001	CURFEW RIGHT'S WITHDRAWN FROM STAKING AND FROM STAKING ZONE.
2984	Water	Jan 1, 2001	LAND USE PERMIT FOR SLUDGE STORAGE.
2985	Water	Jan 1, 2001	LAND UNDER LAMP SUPERVISOR WITHDRAWN FROM STAKING BY O.C. DATE: APRIL.
2986	Water	Jan 1, 2001	Water Superior North From Concession Reserve.
WLL02022	Water	May 14, 1999	SECCO (WLL-02022) TO OMF (WLL-02022) - Nipigon, ON withdrawal area for 1000 ha.

2.24960  
GEOLOGICAL  
ASSAY



UTM Zone 18  
1000m grid

General Information and Limitations

These drawings are for information only and do not constitute a contract. The Province of Ontario, Ministry of Northern Development and Mines, is not responsible for the accuracy of the information shown on this map. Information may also be obtained through the local Land Titles or Registry Offices, or the Ministry of Natural Resources.

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