

GM 56663

ASSESSMENT REPORT FOR MINING CLAIM #5174799

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Assessment Report

For Mining Claim # 5174799

Lot 17, Range 5, Huddersfield Township,

Pontiac County, Quebec

REQ. DU MRN
20 MAR 30 PM 11 12
BUREAU DU REGISTRAIRE

Prepared By:

**Darryl B. MacFarlane
M.Sc.(Geology); B.Ed.**

April 1999

Darryl B. MacFarlane
April 27/99

MRN-GÉOINFORMATION 1999

GM 56663

1999 MAR 29 11:51

BUREAU

RES



Gouvernement du Québec
Ministère des Ressources naturelles
Direction des redevances
et des titres miniers

CERTIFICAT D'ENREGISTREMENT

N° du titre: CL 5174799
CLAIM JALONNE
Localisation: CANTON : HUDDERSFIELD
RANG : 0005 LOT: 17

Superficie: 40,00 HECTARES
Durée de validité: SOIT DU 02 JUILLET 1997 AU 01 JUILLET 1999
ÉMIS AU NOM DE:

EXPÉDIÉ À:

MACFARLANE
DARRYL
P.B.453
KINGSTON ONT K7L 4W5

Québec, le 8 JUILLET 1997

Le registraire

CATHERINE ASSELIN

Assessment Report For Mining Claim # 5174799 (44.0 ha)

Claim Holders:

Darryl B. Macfarlane ; M.Sc., B.Ed.,
P.O. Box 453,
Kingston, Ontario, K7L 4W5
(613) 545-3809
(50% Interest in Claim)

Jerry Van Velthuisen,
56 Ragged Chute Road,
Quyón, Quebec, J0X 2V0
(819) 458-1073
(50% Interest in Claim)

Claim Location:

Lot 17, Range 5, Huddersfield Township, Pontiac County, Quebec

Map Reference:

Energy, Mines and Resources Canada Map 31 F / 15 Fort Coulonge
Latitude: 45°57'50" ; Longitude: 76°32'35" (Centre of Matte Zone)
5091025 mN ; 380475 mE (Centre of Matte Zone)

Access:

Mining Claim # 5174799 is accessed (Refer to Map #1) by driving 13.9 km north along the Picanoc Road (paved) from Otter Lake, Quebec to the hamlet of Sandy Creek. At Sandy Creek turn west on the Yates Mine Road (gravel) and drive bearing right for 4.3 km to the mine adit (now filled in). At 2.9 km from Sandy Creek there is a gate crossing the road. A key for this gate can be obtained for \$3 / person / day from:

Huddersfield Fish and Game Lodge,
Mr. Domina Gravelle, Prop.,
286 Pierre Martineau Street,
P.O. Box 42,
Otter Lake, Quebec
(819) 453-7681 Summer
(819) 453-7643 Winter
(819) 453 - 7346 Lawrence Gravelle

Topography:

The area is characterized by moderately rugged relief with hills rising up to 100 m above the surrounding terrain. The area is covered with a thin layer of glacial debris. Rock exposures are predominantly confined to higher ground and are usually small and quite numerous. The area is covered by a heavy stand of both deciduous and coniferous trees. A considerable swamp lies approximately 200 m north of the main showing.

Previous Work:

The area has seen intermittent work and exploration since the early 1900's. In 1906 and 1907 the Calumet Mica Company and later Mr. A.G. Martin of Ottawa mined phlogopite and fluorite from a number of small pits in the area. The area was worked again in 1943 and 1944 by the Twin Valley Prospecting Syndicate for fluorite (Sabina, 1970).

In the early 1950's J.M. Yates discovered radioactive uranothorite in the area and formed Yates Uranium Mines Inc. to examine the radioactive mineral potential of the area. By 1954 four radioactive zones had been discovered. One of these zones: the "Matte Zone" is located on mining claim # 5174799. During the years 1954 and 1955 the Matte Zone was partially stripped, diamond drilling was completed, mine buildings were erected (only the foundations remain today), and a 500 foot adit was driven into the base of the hill south of the Matte Zone to intersect the Matte Zone at depth. The location of the adit and Matte Zone stripping in relation to the hill is clearly shown on the Energy Mines and Resources Canada Air Photo # A21471-14. By 1956 a mining concession of 8 lots had been established. In the late 1950's the uranium market took a downturn and no further work was done by Yates Uranium Mines Inc. on the property.

In 1976 the uranium market improved and Groundstar Resources Ltd. acquired the Yates Mine mining concession and conducted an extensive surface stripping and diamond drilling program in order to verify the ore reserves reported by Yates Uranium Mines Inc. The work completed by Groundstar Resources Ltd. did not show any significant uranium reserves on the property (McCannell, 1977). Taxes were paid on the Yates mining concession by Groundstar Resources Ltd. until the mid 1990's when the property was dropped.

Regional Geology:

Mining claim # 5174799 is located in the Central Gneiss Belt (hereafter called the "CGB") of the Grenville Subprovince of the Precambrian Shield near its boundary with the Central Metasedimentary Belt (hereafter called The "CMB") to the southeast (Refer to Map #2). The CGB is characterized by northwest-trending quartzofeldspathic gneisses, while the CMB is characterized by northeast-trending marbles, quartzites, pelitic gneisses, and metavolcanics. Radiometric dating (Rb / Sr) indicates Archean and Achean ages for the rocks within the CGB, while the rocks of the CMB are Helikian in age, indicating that the CMB is younger than the CGB (Wynne-Edwards, 1972). Kretz (1957a) suggests that the metasedimentary rocks in the vicinity of the Yates Mine are located either near the base of the CMB or the top of the CGB from his observations mapping on both sides of the boundary in western Quebec.

Local Geology:

The general geology of the area is well documented by Lafontaine (1980) in his M.Sc. thesis on the Yates Mine. The rock types present include: biotite gneiss, amphibole gneiss, calc-silicate rock, granite pegmatite, and diabase.

Geology of the Matte Zone:

The Matte Zone consists of a calc-silicate skarn or vein-dyke in conformable contact with the surrounding biotite gneiss. The Matte Zone pinches and swells to a maximum true width of approximately 5 meters and strikes from the eastern edge of Lot 17 for approximately 200 meters to the northwest. The Matte Zone dips to the southwest at approximately 30 degrees (Refer to Map #3).

The core of the Matte Zone consists of coarse-grained orange to white calcite, purple fluorite, and euhedral, green apatite crystals up to 50 cm in length. Near the hanging wall contact, subangular blocks up to a meter in diameter of metasomatized country rock float in the orange calcite. These blocks are composed of medium-grained scapolite, pyroxene, and microcline; and are rimmed by a layer of coarse-grained calc-silicate minerals. In addition to scapolite, pyroxene, and microcline a large number of other minerals are associated with the metasomatized contacts including: titanite, quartz, pyrite, allanite, molybdenite, zircon, uranothorite, and various zeolites.

Economics:

Many of the minerals from the Matte Zone occur as relatively large, euhedral crystals and have potential economic value to museums, research institutes, and mineral collectors. In addition, the colour combination of the orange calcite, purple fluorite, green apatite, white scapolite, and black pyroxene creates an attractive decorative rock with potential value to a large number of markets.

Purpose of Work:

The purpose of the work completed on mining claim # 5174799 to date was to:

- 1) establish the location of the Matte Zone on the ground by locating the lot line between Lots 17 and 16, Range 5, Huddersfield Township as established by Armand Dumas, Quebec Land Surveyer, for the original Yates mining concession survey in 1955,
- 2) expose the Matte Zone by overburden stripping in order to target areas of economic mineral specimen potential, and to
- 3) examine the targetted areas by trenching and collect mineral specimens for market evaluation.

Summary of Work Completed to Date:

The work to date on mining claim # 5174799 was completed during 3 projects: in August 1997, July 1998, and August 1998. In August 1997 small trees and brush were removed by hand from the site in preparation for overburden stripping of the western end of the Matte Zone with a backhoe. The Matte Zone was examined in this area and a small amount of trenching was completed by drilling and blasting. On August 21 1997, Quebec land surveyor: Constant Legault's employee located the original lot line between Lots 17 and 16, Range 5, Huddersfield Township.

In July 1998 Ed Hinchey, Property Consultant, traced the Lot 17 / 16 line for its length from its southern corner, where the original pin was found, to the northern range line. The original lot line established by Armand Dumas, Quebec Land Surveyor, for the original Yates mining concession survey in 1955 was still clearly marked by 3-sided blazes on established trees. As a result of this work it was proven that the Matte Zone lies entirely on claim # 5174799, Lot 17, Range 5, Huddersfield Township, Quebec (Refer to Map #4). Following the Establishment of the eastern lot line on the ground, the eastern end of the matte zone was stripped using a backhoe and several days of trenching followed.

In August 1998 more trenching was completed on the eastern end of the Matte Zone and approximately 5 tons of sample was removed for market evaluation.

Table #1 summarizes the work completed to date.

Conclusions:

In order to determine whether a small-scale mining operation for mineral specimens and decorative rock would be profitable further work must be completed on the property including:

- 1) stripping the overburden from the central area of the matte zone with a backhoe,
- 2) more trenching and sampling of areas of economic potential,
- 3) estimating the value of recoverable mineral specimens per ton of material, and
- 4) estimating the total economic reserves of the deposit.

REFERENCES

Kretz, R. (1957a): Preliminary report on the Litchfield - Huddersfield area, Pontiac electoral district . Quebec Department of Mines, Preliminary Report 338.

Lafontaine, M.A.G. (1980): Uranium-thorium deposits at the Yates Mine, Huddersfield Township, Quebec. Unpublished M.Sc. Thesis, University of Ottawa, Ontario. 93 p.

MacCannell, J.D. (1977): Summary report of Exploration Work by Groundstar Resources Limited in Huddersfield Township, Quebec. Quebec Department of Mines, Assessment Report 32537.

Sabina, A.P. (1970): Rocks and minerals for the collector: Ottawa to North Bay, Ontario; Hull to Waltham, Quebec. Geological Survey of Canada Paper 70-50. pp.95-98.

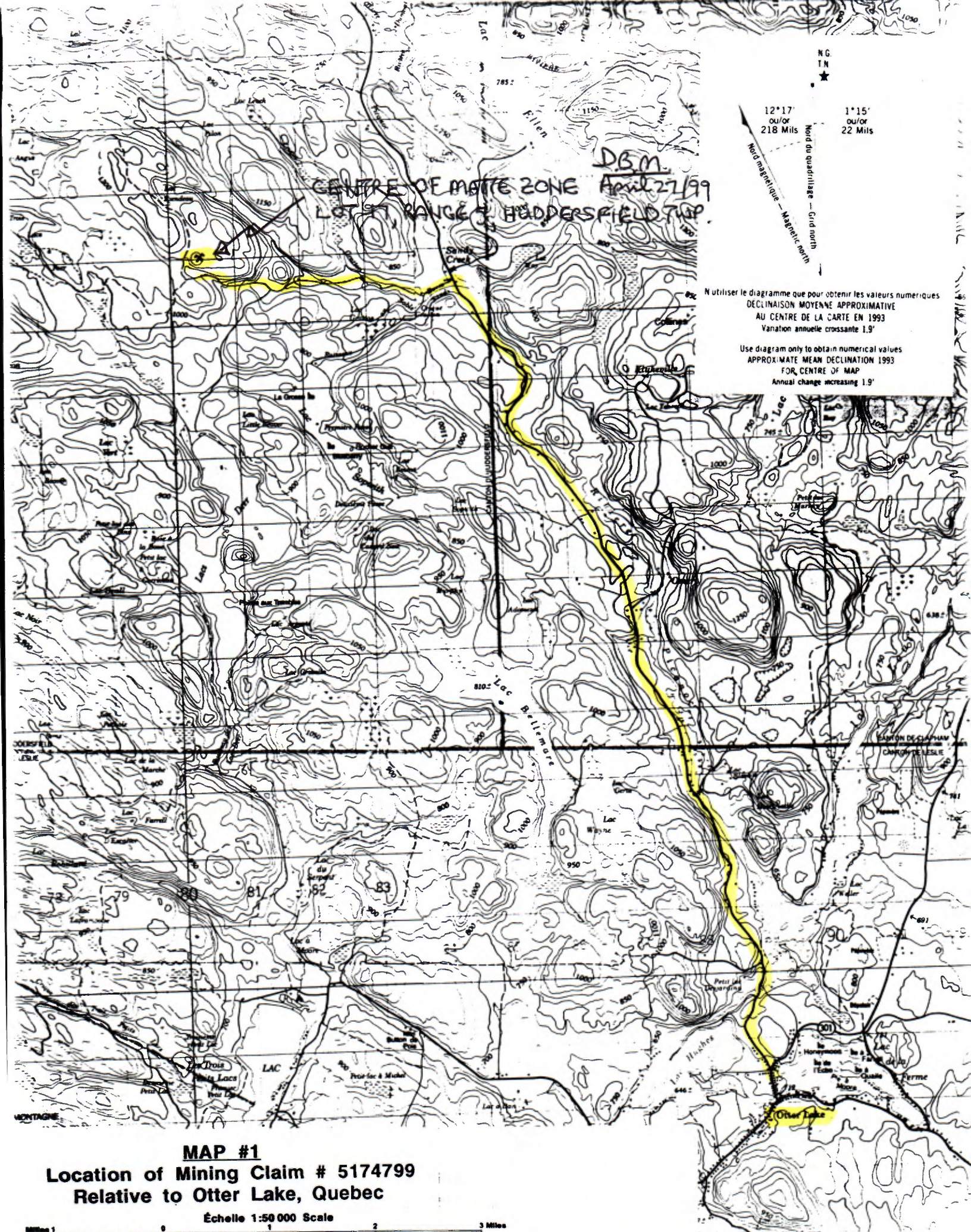
Wynne-Edwards, H.R. (1972): Variation in tectonic styles in Canada. R. Price and R. Douglas, editors. Geological Association of Canada Special Paper II. pp. 262 - 334.

TABLE #1
Summary of Work Completed to Date on Mining Claim #5174799

<u>Date</u>	<u>Duration</u>	<u>Nature of Work</u>	<u>Work Performed By</u>	<u>Value</u>
<u>Project #1</u>				
8/18/97	1.0 Man Day	Clearing Brush	D.B.M. & J.V.	\$100.00
8/19-20/97	2.0 Man Days	Overburden Stripping	J.K. (Backhoe Operator)	\$911.64
8/19-20/97	3.5 Man Days	Overseeing Backhoe	D.B.M. & J.V.	\$350.00
8/20/97	.5 Man Days	Drilling & Blasting	D.B.M.	\$200.00
8/21/97	1.5 Man Days	Trenching by Hand	D.B.M. & J.V.	\$150.00
8/21/97	.5 Man Days	Site Visit by Land Surveyor	C. L. (Quebec Land Surveyor)	\$319.07
8/21/97	.5 Man Days	Accompanying Surveyor	D.B.M.	\$50.00
8/22/97	1.0 Man Day	Trenching by Hand	D.B.M. & J.V.	\$100.00
8/23-24/97	4.0 Man Days	Trenching by Hand	D.B.M. & J.V.	\$400.00
8/25-26/97	2.0 Man Days	Trenching by Hand	J.V.	\$200.00
8/25-26/97	2.0 Man Days	Drilling & Blasting	D.B.M.	\$800.00
8/27/97	.5 Man Days	Drilling & Blasting	D.B.M.	\$200.00
8/27/97	1.5 Man Days	Trenching by Hand	D.B.M. & J.V.	\$150.00
Other Expenses:		Explosives Consumed		\$336.95
<u>Project #2</u>				
7/6/98	2.5 Man Days	Establishing Lot 17/16 line	E.H. (Property Consultant)	\$285.00
7/6-8/98	2.5 Man Days	Establishing Lot 17/16 line	D.B.M. & J.V.	\$250.00
7/9/98	2.0 Man Days	Marking Lot 17/16 line	D.B.M. & J.V.	\$200.00
7/10-11/98	2.0 Man Days	Overburden Stripping	J.K. (Backhoe Operator)	\$989.22
7/10-11/98	3.5 Man Days	Overseeing Backhoe	D.B.M. & J.V.	\$350.00
7/11/98	.5 Man Days	Drilling & Blasting	D.B.M.	\$200.00
7/12-16/98	9.5 Man Days	Trenching by Hand	D.B.M. & J.V.	\$950.00
7/13/98	.5 Man Days	Drilling & Blasting	D.B.M.	\$200.00
Other Expenses:		Explosives Consumed		\$87.50
		Gate & Tractor Fee	D.G. (Right of Way Owner)	\$225.00
<u>Project #3</u>				
8/14/98	1.0 Man Day	Trenching by Hand	D.B.M. & J.V.	\$100.00
8/15/98	.5 Man Days	Drilling & Blasting	D.B.M.	\$200.00
8/15/98	1.5 Man Days	Trenching by Hand	D.B.M. & J.V.	\$150.00
8/16/98	2.0 Man Days	Trenching by Hand	D.B.M. & J.V.	\$200.00
8/17/98	.5 Man Days	Drilling & Blasting	D.B.M.	\$200.00
8/17/98	1.5 Man Days	Trenching by Hand	D.B.M. & J.V.	\$150.00
8/18-19/98	4.0 Man Days	Trenching by Hand	D.B.M. & J.V.	\$400.00
8/20/98	.5 Man Days	Drilling & Blasting	D.B.M.	\$200.00
8/20/98	1.5 Man Days	Trenching by Hand	D.B.M. & J.V.	\$150.00
8/21/98	2.0 Man Days	Trenching by Hand	D.B.M. & J.V.	\$200.00
8/22-23/98		No Work Done		-----
8/24/98	6.0 Man Days	Trenching by Hand	D.B.M. 7 J.V.	\$600.00
Other Expenses:		Explosives Consumed		\$100.00
		Gate & Tractor Fee	D.G. (Right of Way Owner)	\$341.00
TOTAL				\$10,995.38

TABLE #1 Continued Work Performed By:

<u>Code</u>	<u>Name & Address</u>	<u>Expertise</u>	<u>Fees</u>
D.B.M.	Darryl B. MacFarlane; M.Sc.,B.Ed. P.O. Box 453, Kingston, Ontario, K7L 4W5 (613) 545-3809	-Blasting -Geology -Labour	\$400.00 / Day \$200.00 / Day \$100.00 / Day
J.V.	Jerry Van Velthuizen 56 Ragged Chute Road, Quyon, Quebec, J0X 2V0 (819) 458-1073	-Mineralogy -Labour	\$200.00 / Day \$100.00 / Day
J.K.	John Kelly, R.R. #4, Shawville, Quebec, J0X 2Y0 (819) 647-2303	-Backhoe Operator	Hourly Rate
C.L.	Constant Legault; a.-g., a.f., 104 Rue Front, C.P. 550, Campbell's Bay, Quebec, J0X 1K0 (819) 648-2066	-Quebec Land Surveyor	Hourly Rate
E.H.	Edward Hinchey; (Geol. Engineer), Gusterra Ltd., P.O. Box 105, Napanee, Ontario, K7R 3L4 (613) 541-9629	-Property Consultant	Dayly Rate
D.G.	Domina Gravelle, 286 Pierre Martineau Street, P.O. Box 42, Otter Lake, Quebec (819) 453-7681 Summer (819) 453-7643 Winter (819) 453-7346 Lawrence Gravelle	-Right of Way (Gate) Owner -Tractor Operator	\$3 / person / day \$50 / trip



DBM
CENTRE OF MATE ZONE April 27/99
LOT 91, RANGE 3, HADDERSFIELD TWP.

NG
TN
★
12°17' ou/ou
218 Mils
Nord magnétique — Magnetic north
1°15' ou/ou
22 Mils
Nord du quadrillage — Grid north

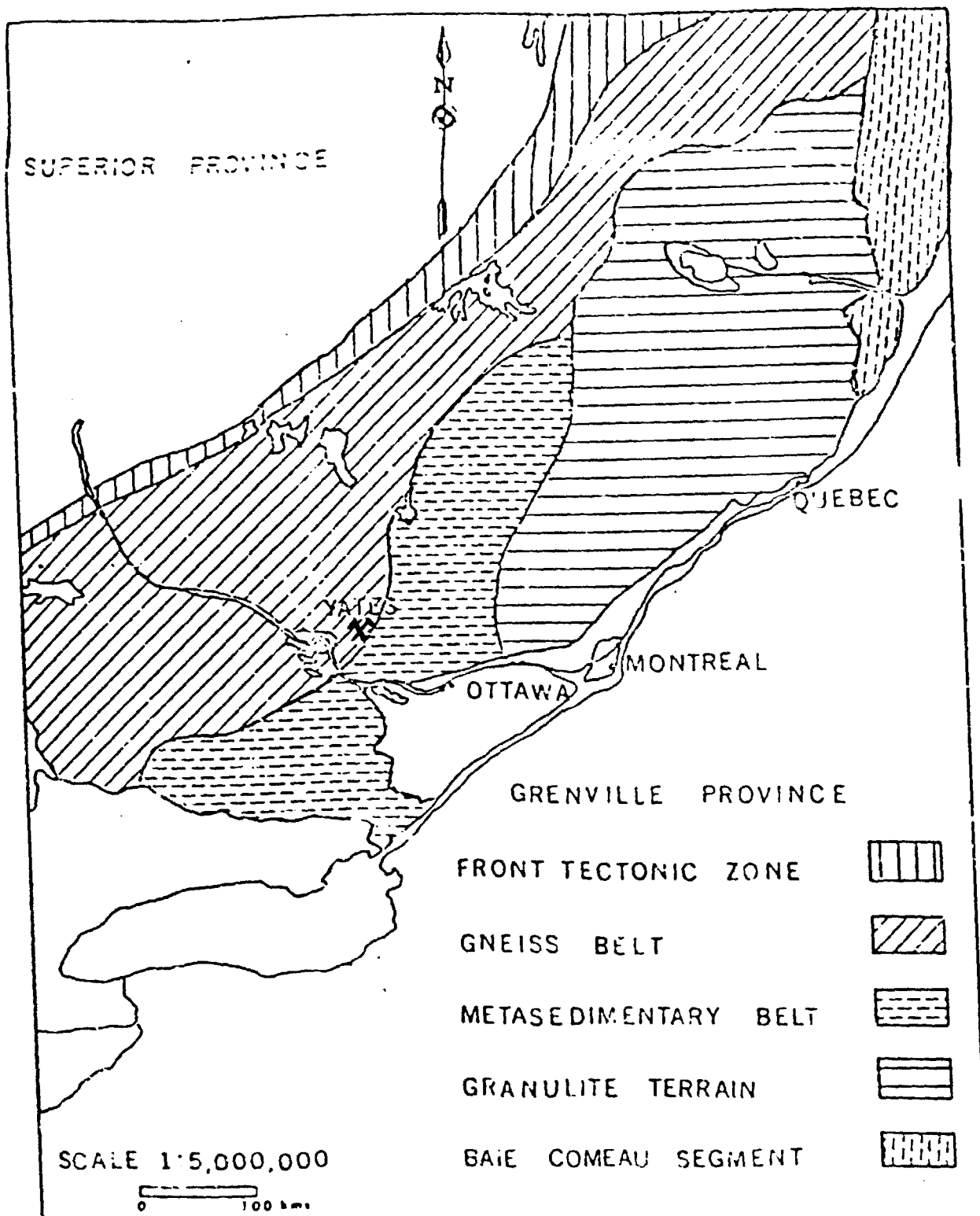
N'utiliser le diagramme que pour obtenir les valeurs numériques
DECLINAISON MOYENNE APPROXIMATIVE
AU CENTRE DE LA CARTE EN 1993
Variation annuelle croissante 1.9'
Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 1993
FOR CENTRE OF MAP
Annual change increasing 1.9'

MAP #1

**Location of Mining Claim # 5174799
Relative to Otter Lake, Quebec**

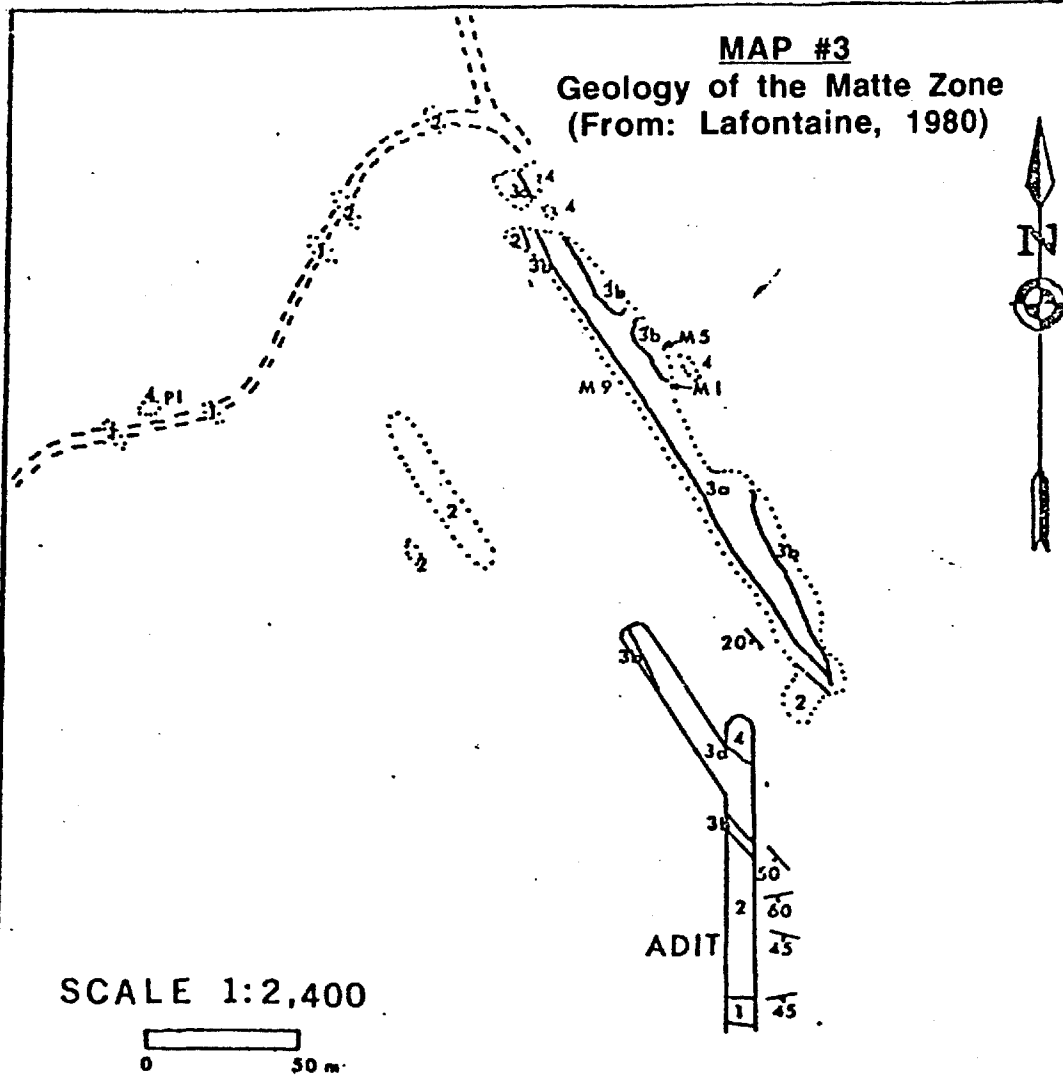
Echelle 1:50 000 Scale





MAP #2
Location and Geological Setting
of Mining Claim # 5174799
(From: Lafontaine, 1980)

MAP #3
Geology of the Matte Zone
 (From: Lafontaine, 1980)



SCALE 1:2,400

0 50 m

Archean or Proterozoic

4	Pegmatite	50	Foliation
3a	Calcite skarn	—	Geological contact (defined)
3b	Calc-silicate skarn	⋯	Outcrop
2	Biotite gneiss	M1, P1	Sample location
1	Amphibole gneiss	=====	Tractor road

Units 1 to 4 not necessarily in chronological order

Geology of the Matte zone. The adit level is 130 feet (39 meters) below the surface exposure of the lens.

