

52C16SE0003 2.7573 BENNETT

BENNETT LAKE GEOLOGY

MINING LANDS SECTION

Submitted by: Peter Mordaunt, Geologist November 16, 1984

#### INTRODUCTION

The following report details the results of a major geological mapping program undertaken by Lynx-Canada Explorations Limited. The survey includes a detailed map at a scale of 1:2500 which outlines the portion of the claim block to which this report applies.

#### Location and Access:

The property is located north of Bennett and McPherson Lakes in the township of Bennett, in the Kenora Mining Division. The property lies approximately 40 km west of Atikokan, Ontario and north of highway #11. Access is obtainable via the Crilly road, which intersects highway #11 where the Seine river crosses the highway. An 8 kilometer drive along an all weather road leads to a basecamp (i.e. summer home) location on the south shore of McPherson Lake. The claim group lies north of the lake and is accessible by boat and/or foot.

#### Previous Work (1):

1896-1899: Developmental work first began on the property in 1886.

Several test pits and a shaft was sunk to 75 feet (23 metres) with 20 feet (6 metres) of drifting and 13 feet (4 metres) of crosscutting at the 45-foot level (14 metres) were completed. In addition, on the north shore of Bennett Lake (formerly Cedar Lake) a 16-foot adit (5 metres) was driven northward. A five stamp mill was erected in 1898 through which 125 rons of core were milled. All the work was completed by the Independence Mining and Development Company Ltd. No further exploration work is known to have taken place on this property.

1910: The patented claims which were surveyed in 1897 lapsed in 1910 and became open ground.

1915: The property was acquired by J.A. Kennedy, et al.

1980: The property was visited by S.L. Fumerton of the Ontario Geological Survey and 11 sampled and detailed geological mapping is completed. At that time, the property was held was R.J. McLean Jr., E. Walton, M.J. Strangis, A.E. Dalby, and J.W. Richardson.

1982: The property was visited by the Atikokan Economic Geologist Program, where sampling was conducted.

#### Location and access of Independence Mine:

#### General Location

The Independence Mine is located within Bennett Township in the southern parts of Lots 11 and 12, Concession II and the southern part of Lot 11, Concession III. It is situated approximately 30 km east of Mine Centre and about 5.0 km north of Bennett Lake.

#### Access:

The property is accessible by foot trail from the north shore of Bennett Lake.

#### References:

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ODM Vols. (1899)(1900)(1902);
Young (1960);
Fumerton (1981);
M.R.C. No. 13 (Ferguson et al, 1971);
Resident Geologist's Files, Kenora and Thunder Bay.
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#### Map References:

Map 2443 Kenora-Fort Frances Sheet
(Blackburn, 1973-1978)
Lat. 48° 78'
Long. 92° 26'
Map P2405 Calm Lake Area
(Fumerton, 1981)
Aeromagnetic map 11426
ODM Geological Compilation Map 2115
Map 190b Bennett-Tanner Area
(Young, 1960)

## General geology and structure of Independence Mine:

The Independence Mine is structurally situated (within 0.5 km) north of the Quetico Fault. The area is underlain by steeply dipping, west striking, felsic to mafic metavolcanics. The metavolcanics are composed of sericite-chlorite-carbonate schist which may have originally represented a felsic fragmental rock, such as a tuff of lapilli tuff which underwent intense shearing and silicification. These felsic tuffs are intercalated with mafic tuffs and epiclastic and chemical metasediments. Fumerton (1981) describes the country rock as a felsic quartz crystal tuff in which the quartz clasts commonly have a blue tint.

Shearing is prominent throughout the Independence Mine property, striking east-west with near vertical dips.

#### Mineralogy of the Independence Mine:

The main quartz vein was reported by Bow (1899) to be up to 60 feet (18 metres) in length on surface and up to 2 feet (0.6 metres) wide. Fumerton (1981) indicates that there are numerous small, discontinuous quartz veins occurring at various attitudes within a host rock of felsic tuff. The veins appear to be associated within east-west trending lenticular shear zones. Visible mineralization consist of pyrite, chalcopyrite, galena, sphalerite and gold; with accessory minerals including sericite, chlorite and carbonate.

The princial workings of the Independence Mine exploited narrow and discontinuous quartz veins in a sheared quartz crystal tuff.

#### Economic features of the Independence Mine:

#### Tonnage and Grade Estimates:

None recorded.

#### Past Production:

During 1898, Independence Mining and Development Co. Ltd. produced 121 ounces of gold from 125 tons of ore giving a grade of 0.97 ounces of gold per ton. (Ferguson et al, 1971)

#### Chemical analysis of the Independence Mine:

Bow (1899) reported alleged gold values of 0.39 ounces per ton in the host rock adjacent to the main quartz vein, which contains erratic gold mineralization of up to 7.76 ounces gold per ton. Eight selected grab samples from a rock dump near the shaft were collected by Fumerton (1981) giving values obtained from samples of quartz vein material from trace to 0.96 ounces gold per ton. A sample of the host rock, barren of sulphide mineralization, contained trace amounts of gold, whereas host rock samples with some sulphide mineralization contained between trace and 0.04 ounces gold per ton. Twelve samples collected from the adit on the north shore of Bennett Lake contained trace amounts of gold.

Samples collected by the Atikokan Economic Geologist Program gave low results.

#### PRESENT WORK:

#### Staking:

65 contiguous claims were staked in the winter/spring of 1983, surrounding the Independence mine shaft with the bulk of claims to the east. The claim group consists of:

K	759817					1
K	759821	-	K	759850	inclusive	30
K	759777	-	K	759795	inclusive	19
K	676190	-	K	676196	inclusive	7
K	655361	-	K	655368	inclusive	8
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All claims are recorded in the Kenora Mining Division of plan M-1920 Bennett Lake.

#### LINE CUTTING:

An exploration grid totalling 116 km was cut over the whole portion of the property (34 + 00 west - 38 + 00E). A baseline was cut in an eastwest direction with winglines perpendicular to the baseline at 100 meter intervals. Chained stations along the winglines were established with a 25 meter spacing. This geological report, however, is only concerned with lines 34 + 00W - 15 + 00W.

#### GEOLOGICAL MAPPING:

The aforesaid grid was mapped and prospected during the spring, summer and early fall period of 1984 at a scale of 1:2500.

#### REGIONAL GEOLOGY

The Bennett Lake Property occurs in the Wabigoon Subprovince and is located north of the Quetico fault. The area consists mainly of metavolcanic and metasediments that are situated south of the Hillyer Creek Dome and north of the "Seine Series" metasediments.

The regional strike tends approximately in an east-west direction with a dips steeply to the south and verticle.

#### PROPERTY GEOLOGY

The area mapped on the Bennett lake property during the 1984 field season corresponds with lines 16 + 00W through 34 + 00W inclusive. Generally speaking, the geology is quite variable and changes in lithology occur quite abruptly on the property.

#### BENNETT LAKE GEOLOGY

- MAFIC VOLCANIC A Undefined .B Tuffaceous C Crystal tuff D Lopill tuff E Flow INTERMEDIATE VOLCANIC A Undefined B Banded tuff C Tuff D Crystal tuff E Lapilli tuff F Flow 3 A intermediate quartz-eye tuff B Intermediate quartz - feldspar porphyry FELSIC VOLCANIC A Undefined B Banded tuff C Tuff D Crystal tuff E Lopilli tuff 5 METASEDIMENTS A Wacke B Siltstone C Argillite BANDED IRON FORMATION A Chert
- 7 FELSIC DYKE ROCK

B Sulphide C Oxide The legend insert on the next page outlines the geological units mapped and these in turn will be discussed in the order as they appear on the legend.

#### MAFIC VOLCANICS:

Mafic Volcanics comprise the most abundant lithology on the property. Most mafic volcanics on the property appear to be undefined and are massive to weakly foliated. Grain size varies from an ash (finegrained) to a more medium grained (tuffaceous) rock type. Some areas within this rock type contain quartz carbonate stringers. Although these areas are relatively scant it is of importance to note their relative location close to contacts (i.e. L-19 + 00W near baseline extending north).

#### INTERMEDIATE VOLCANICS:

There appears to be two distinct and easily recognizable intermediate volcanic lithologies. The first type of intermediate volcanic unit is a discontinuous and interfingered lithology that is mainly comprised of tuffaceous volcanics. Structurally they appear in lenses that are stringy and thin with a fine to medium grained texture. Foliated to weakly foliated these intermediate volcanics are conformable to other geological units. In some instances these units may actually be an intermediate tending more towards a mafic rather than a true intermediate rock type. However, for better geological definition and mapping identification these have been defined as a separate lithology.

The second intermediate lithology is physically significant by virtue of the fact that opalecent bluequartz-eyes are recognized in an Intermediate tuff. Also within this lithology one may observe a quartz-feldspar porphyry with and without quartz-eyes. The most prominent area with these lithologies displayed, occurs along the baseline from 19 + 00W to 27 + 00W. This lithological unit is quite large in size extending roughly to 2 + 50N and 0 + 75 South.

#### **FELSIC VOLCANICS:**

Felsic volcanics on the property generally appear as small and discontinuous bands, south of the baseline. These tuffs to crystal tuffs are generally fine to medium grained and contain a great deal of silicification. Banding within the crystal tuffs is quite common with most felsics reveiling foliation. These volcanics are conformable and quite similar in size and structure to some Intermediate volcanics with which they are often associated.

To the north of the property larger stratabound felsic volcanic bands appear. They are thicker and more continuous. These are interbanded/bedded with sediments, mafic and intermediate volcanics. Although they are more abundant than felsics in the southern portion of the property they are similar rock types in terms of structure and grain size.

#### **METASEDIMENTS:**

Sediments are found in two distinct segments of the property. To the north of the property, sediments are interlayered with felsic volcanics, iron formations and mafic volcanics. These lithologies are approximately 25 meters in width and are thinly laminated wackes and siltstones. These fine grained sediments are lenses that are discontinuous along strike. Some segments display quartz veining and oxidation.

The second area of sedimentary deposition is an extremely broad zone to the south and west portion of the property. This may represent the end of a sedimentary unit that may be pinching out. Alternatively, this may be a large sedimentary unit that has been interfingered with volcanics.

The unit consist of alternatively bands of wacke, siltstone and argillite. The intercalated fine grain metasediments are in some zones contorted and carbonatized. These metasediments lie conformable to regional strike. There is, however, a series of unique folds that may be important for structural consideration south of the baseline on lines 33 + 00W to 29 + 00W related to the sedimentary and volcanic contact. The sediments although stratagraphically significant in size have not as yet proved significant in

economic terms (i.e. gold results).

#### BANDED IRON FORMATIONS:

The Banded Iron Formations as typically expected occur within metasediments. These cherty units contain varying amounts of sulphides and are
associated with oxidation weathering. These relatively thin units (i.e. 1/2
meter - 10 meters) in width are discontinuous and conformable with other
geological units. The economic significance of these iron formations has
yet to be determined, however, economic values have been attained in the
trenched areas close to what is believed to be an iron formation. Therefore,
there may be a relationship that drilling can confirm.

#### FELSIC DYKE ROCK:

A unique felsic dyke that cross cuts strike and intrudes country rock south of the baseline (i.e. 5 + 00S) between lines 29 + 00W to 31 + 00W. This dyke is massive to weakly foliated and contains sulphide mineralization. Assays are not encouraging.

#### TRENCHING:

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A soil geochemical survey completed in the 1983 field season reveiled an extremely high sample result (i.e. 0.05 oz.ton/Au) at location 25 + 00W, 0 + 25N. Follow-up prospecting (in 1984) lead to a major trenching effort just south of this location (baseline) which resulted in a showing with extremely high values (see trench plan). The economic significance of this zone is yet undetermined, however, the geological environment has been established as a unique setting.

A highly weathered ("latheritized") iron formation of significant width (i.e. 10 meters) was uncovered with the aid of a bulldozer and backhoe. Bedrock within this zone was not detected to a depth of approximately 15 feet. High gold and silver values were sampled at the contact between banded sediments and mafic volcanics (i.e. wall rock). Within the wallrock, quartz veins and sulphides plus, telluride mineralization are identified. This zone

is coupled with a good magnetic response indicative of magnetite. A strong VLF-EM conductor couples the magnetic anomaly and is thought to be a response to sulphide and possibly pyrrhotite mineralization.

In addition to high gold and silver values a unique and as yet, uindentified gold, silver, lead-telluride mineral was uncovered. Presently, x-ray diffraction methods for mineral determination are being conducted at the University of Toronto's, mining laboratory. Native tellurium & a Itaite from OMEP #0M83-3-C-354, William & Altaite from OMEP

#### STRUCTURE:

The Bennett Lake property is generally massive-foliated and is steeply dipping to the south. Little identifiable faulting occurs throughout the property, however, a fault is evident at line 19 + 00W north of the baseline. Trenching at line 25 + 00W has shown there is a possible fault oriented in a north-south direction.

#### CONCLUSION:

- 1. The complexity of geology on the property related to a variety of lithological units and abrupt changes in geology over small distances, suggests that important details related to economic mineralization may have been missed by this survey.
- 2. This geological survey has outlined geological units that could aid in the prospecting of the property.

#### **RECOMMENDATIONS:**

- 1. Follow-up work of a prospecting variety specifically on iron formations, metasediments and felsic volcanics to the north of the property.
- Drilling of the trench area where good assay results have occured to test this zone; plus provide insite for other areas of the property with similar geology.

3. More detailed geological mapping in areas of higher assay results to obtain the maximum information about the geological environment.

Rond Cunt

#### REFERENCES

1. 1984

Ontario Geological Survey, mineral deposits files, Independence Mines, 77 Grenville Street, Toronto, Ontario

2. 1984

"Seine River Geology" Chris Suchanek unpublished.

Ministry of

Resources

Natural

(Geophysical, Geological, Geochemical and Expenditures)



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	- Magnetometer			676196				
	- Radiometric			759817 -		-		
	- Other			759821 ·		<u></u>		
	Geological			759826				
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credits do not apply to Airborne Surveys.	Magnetometer					RE	BUVE	41
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I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work

or witnessed same during and/or after its completion and the annexed report is true. Name and Postal Address of Person Certifying

Mining	Lands	Section

# File No 2.7573

Control Sheet

TYPE OF SURVEY	GEOPHYSICAL
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	GEOCHEMICAL
	EXPENDITURE
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	Signature of Assessor
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Date

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Your File: 270-84 Our File: 2.7573

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

#### Dear Sir:

RE: Notice of Intent dated December 27, 1984. Geological Survey on Mining Claims K 655361 et al in Bennett Township.

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-6918

#### S. Hurst:sc

cc: Lynx-Canada Explorations Limited Suite 520 25 Adelaide Street East Toronto, Ontario M5C 1Y2

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Peter Mordaunt
32 Clayland Drive
Apt 516
Don Mills, Ontario
M3A 2A4

Resident Geologist Kennoa



Jan 11/85

1984 12 27

Your File: 270-84 Our File: 2.7573

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt Director

Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

S. Hurst:mc

Encls.

cc: Lynx-Canada Explorations Limited Suite 520 25 Adelaide Street East

Toronto, Ontario

M5C 1Y2

32 Clayland Drive Apt.516 Don Mills, Ontario M3A 2A4

Peter Mordaunt

cc:

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Notice of Intent for Technical Reports

1984 12 27

2.7573/270/84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

# FICE USE ONLY

837 (5/79)



# **Ministry of Natural Resources**

TECHNICAL DATA STATEMENT

# GEOPHYSICAL -- GEOLOGICAL -- GEOCHEMICAL

ALICE

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

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### GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken	
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Type of Sample(Nature of Material)	n n m 🔝 🗎
Average Sample Weight  Method of Collection	p. p. b.
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Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests
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	Reagents Used
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# GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

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INDUCED POLARIZATION



# **Technical Assessment Work Credits**

File	
2.	.7573

Date

1984 12 27

Mining Recorder's Report of Work No. 270-84

LYNX-CANADA EXPLORAT	IONS LIMITED					
Township or Area  BENNETT TOWNSHIP						
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed					
Geophysical						
Electromagnetic days						
Magnetometer days						
Radiometric days						
Induced polarization days						
Other days						
Section 77 (19) See "Mining Claims Assessed" column						
Geological days	K 676190 to 196 inclusive					
Geochemical days	759817 759826 to 829 inclusive					
Man days ☐ Airborne ☐						
Special provision 🗵 Ground 🗵						
Credits have been reduced because of partial coverage of claims.						
Credits have been reduced because of corrections to work dates and figures of applicant.						
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lo credits have been allowed for the following mining claims  not sufficiently covered by the survey  Insufficient technical data filed						
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