



41009SE0051 2.9602 YEO

010

GEOLOGICAL REPORT ON  
"THE KINGBIRD OPTION"  
(EAST HALF)

OF

BRYNDON VENTURES INC.

PREPARED FOR

THE BOARD OF DIRECTORS

OF

BRYNDON VENTURES INC.

BY

NEIL D. NOVAK, B. Sc., F.G.A.C.  
EXPLORATION GEOLOGIST

November 20, 1986

**RECEIVED**  
DEC - 5 1986  
MINING LANDS SECTION

Introduction

The following report is a presentation of exploration results obtained during the period July 22 through to September 28, 1986 on a group of 78 claims referred to as the "Kingbird Option", located in the Swayze Synclinorium (greenstone belt), near the Village of Gogama, Ontario, in the Township of Yeo. The registered holders of these claims is B & B Mining (Canada) Ltd., a wholly-owned subsidiary of Bryndon Ventures Inc., with head office located at 505-340 West Cordova Street, Vancouver, B.C.

The property received a short exploration program over the eastern portion of the property consisting of detail geological mapping followed by blasting where required. "Grab" samples were selected at one location within the grid area. Assay results and a compilation map are appended. An attempt was made to accurately locate claim posts and the property limits during the course of this program.

This report was prepared at the request of the Board of Directors of Bryndon Ventures Inc. to fulfill the requirements of an assessment report in the Province of Ontario.

A list of pertinent references is presented at the end of this report, for the reader's perusal.



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## PROPERTY DESCRIPTION

The Kingbird Option property is situated in the northwest corner of Yeo Township in the Porcupine Mining Division of the Province of Ontario. The property consists of 78 mining claims covering an area of approximately 3,120 acres. All these claims are in good standing in compliance with the Ontario Mining Act. Appendix I indicates the position of each claim as it is located in Yeo Township, while Appendix II lists the claims and gives the current status of the claim group.

### Flora and Fauna

This claim area is covered with a thin layer of overburden consisting of sand and gravel, which provides an excellent soil base for the growth of a mixed forest. Typical coniferous trees are of the spruce, pine and balsam varieties, while the typical deciduous trees are of the poplar and birch varieties. The low lying areas are well populated in black spruce, cedar and tagalder. The area is currently undergoing tree harvesting by the Eddy Company, as most of the area has reached full maturity.

The forest cover provides excellent habitat for a variety of animals including moose and bear, as well as smaller fur bearing animals including lynx, beaver, muskrat, mink, marten, fisher and squirrels. The numerous rivers and lakes provides an excellent area for fishing enthusiasts, with typical fish being northern pike, pickerel, bass and several varieties of trout.

### LOCATION, ACCESS AND FACILITIES

The property is situated approximately 29 kilometres WSW of the Village of

Gogama. This town is located approximately 186 kilometres north of the City of Sudbury, Ontario via the King's Highway 144. (See Figure 1)

Access to the property is gained by travelling south from Gogama, approximately 37 kilometres to the Eddy Road, travelling west along this secondary gravel road, approximately 17 kilometres to a north trending Eddy access road (labelled "Yeo Road"), then north along this road to various parts of the property. This road and the network of roads associated with it provide excellent accessibility to all areas of the property. Access may also be gained by floatplanes, based at Gogama. The larger lakes in the area facilitate landing sites for this option.

Although no facilities other than a few scattered trappers cabins are located within the claim area, a reasonable infrastructure is present. An abandoned hydro line traverses the north end of the property in an east-west direction, which could be re-opened to provide electricity for any mining activity at reasonable cost. The Canadian Pacific Railway system passes 50 kilometres west of the property, while the Canadian National Railway system is located about the same distance in the easterly direction. A tourist camp and mining camp is located approximately 10 miles to the east, on the east shore of Lake Mesomikenda. This camp can be utilized as a billeting post for any men involved in exploration or develop work, at reasonable cost.

#### HISTORY OF EXPLORATION

The Swayze syncline has undergone intermittent exploration since the early 1900's. Mr. P. Moore in 1912 reported the first gold showing near Moore

Lake in east-central Yeo Twp., sparking little if any immediate interest. In 1927, another showing was encountered on the east shore of Clam Lake, near the Chester-Yeo Twp. common border, this showing is known as the Chester-Shannon prospect, initiating what might be called the first real staking spree in this new gold belt. Several other showings followed in 1930 in the same general area of Clam Lake, Three Duck Lake, and Schist Lake, all situated in Chester and Yeo townships. For the next six or seven years several other gold and base metal prospects were outlined in these two townships, some being of near economic proportions, as evidenced by the number of old exploratory shafts scattered throughout the area.

In 1938, Mr. B. Jerome, while prospecting in Osway township 10 miles to the west, encountered a significant gold occurrence on the south shore of Opeepeesway Lake including what is now called the Jerome Mine. This mine went into production in 1939 and sustained production until 1945. The records of production are as follows; "1939-45: Three compartment vertical shaft to 1138 feet with levels at 200, 350, 500, 650, 800 and 1100 feet. Underground development amounts to 21,100 feet of drifting, 3,155 feet of crosscutting, and 3,402 feet of raising. Surface and underground diamond drilling totalled 38,149, but all equipment was sold after production was halted,". Production from this mill from 1941-43 was 56,879 ounces of gold, 15,105 ounces of silver, in 335,060 tons of ore yielding a recovered grade of 0.17 ounces of gold per ton. At the time of closure the ore reserves were estimated at 344,000 tons averaging 0.19 ounces of gold per ton. Recent work, by Jerome Mines, has resulted in an upgrading of this figure to approximately 583,000 tons averaging 0.20 ounces of gold per ton.

This recovery sparked further interest in Osway and Huffman townships resulting in the discovery of several other prospects including the Bi-Ore, Cipway, and Skye all in the vicinity of Opeepeesway Lake.

All of these prospects and showings have deemed the entire Swayze syncline area as a note-worthy gold belt. Within the last six or seven years several major mining companies have entered this camp including Texasgulf (Kidd Creek), Pamour, Cominco, Noranda, Falconbridge and International Nickel, plus several other small companies too numerous to list. This recent activity has led to the outlining of several potential ore bodies in an area just east of Three Duck Lake in Chester Township. Current activities in this particular camp which are being closely monitored by the major mining companies include the sinking of a decline in Murgold Resources on the old Strathmore property as well as the surface investigations of Kidd Resources Ltd. on the Kidd number 1 and number 2 zones.

To the northwest of the Kingbird Option property, Berle Oil under the auspices of Norex (Noranda Inc.) underwent a major diamond drill program in Mallard Township. Their target was an area geologically identical to that of Bryndon and they received values of Au in the 0.15 to 0.25 o.p.t. range over substantial widths.

There is no formal historical record of exploration and/or development on the property mapped. Local prospectors speak of trenching to the east and northeast of Canoe Lake. Upon examination of this area, these rumours were



not verifiable due to timber cutting and scarification. Further to the south in vicinities east and west of the south bay of Canoe Lake, the author observed numerous pits and trenches of an undetermined age (most likely 20 years or older) which indicate a history of prospecting.

The map area is within the Swayze syncline which has been the focus of a number of airborne surveys. In early 1980, the contract firm of Les Relevés Géophysiques Inc. of Quebec flew a REXHEM-1 survey which included electromagnetics (E.M.-33), magnetics (Geometric's Proton Magnetometer) and V.L.F. (Hertz Industries TOTEM-1A). In 1982 the Ontario Geological Survey flew a Questor system Airborne survey at a regional scale. The results of the two surveys confirm the presence of a number of geophysical anomalies.

An extensive H.E.M. anomaly passes through the north part of the claims in an east-west direction. This conductor has an associated magnetic "high". Another magnetic "high" is observed trending east-west and passing through the south bay of Canoe Lake. A coincident electromagnetic response is weaker and less continuous than the one to the north.

Neill's Anderson reported to have uncovered a sulphide zone containing abundant sphalerite and chalcopyrite on the southwest bay of Canoe Lake.

Bryndon maintains a very strategic land position with respect to all of the above-mentioned mineral prospects and occurrences. (See Figure 2).

#### REGIONAL GEOLOGY (See Table of Formations)

The property of Bryndon lies within the Superior Geological Province of the

Precambrian shield of Northern Ontario. The area underlying the claim group is a typical "greenstone belt" in that it contains numerous metalvolcanic and metasedimentary units which are common to the shield area. This particular belt has been termed the Swayze syncline by many authors. Flanking the synclinal supracrustal rocks to the north and south are regional granites which occupy much of the shield area. This group of rocks are of undetermined Archean age, and consist of granites, trondhjemite, granodiorite, and quartz monzonite. These rocks are typically pegmatitic to batholithic in nature.

The syncline, as it is found in this area, is comprised of two roughly parallel belts of predominately tholeiitic basalt composition. These belts form the base of the syncline and trend in a west-north-westerly direction and dip subvertically. The unit does not outcrop within the limits of the geologic plan, however, the rocks are essentially basaltic in composition but have undergone various levels of metamorphism, yielding gabbroic or even dioritic looking rocks which are essentially homogeneous recrystallized derivatives of the original basalt, dominantly migmatitic.

The basalt was overlane by a series of calc-alkaline volcanics represented in the pile by pyroclastic metavolcanics of mafic and intermediate composition. These metavolcanics are locally interbedded with lenses and layers of the underlying basalt. The mafic - intermediate pyroclastic units are mostly aphanitic (fine grained) to tuffaceous, containing lenses of metasediments and also granitoid rocks.

These granitoids are presumably fragments of older sub-volcanic felsic

intrusions which are present as dikelets of a coarse feldspar porphyry which appear to intrude the metavolcanic pile, displaying concordant and discordant relationships, outcropping in Schist Lake, just northeast of the Bryndon property.

The metasediments are comprised of dominantly metamorphosed clastic and chemical sediments. The clastic portion consists of polymictic conglomerates, conglomeratic arenites, arenites, greywackes and derived schists, while the chemical representatives are chert, cherty mudstone, ferruginous chert and ironstone (iron formation).

Transecting the area in a roughly north-north-easterly pattern is a series of dikes, diabasic in composition, typical of the Keeweenawan swarm.

A north-north-westerly trending fault has caused considerable displacement in a left-lateral (sinistral) direction. This fault exhibits a displacement of approximately 900 metres at an azimuth of  $170^{\circ}$ .

As is evidenced by the magmatic rocks the entire belt has undergone regional deformation of the upper greenschist to lower amphibolite facies producing a steeply dipping synclinorium which has undergone post-deformational faulting yielding a rather complex geological picture.

TABLE OF FORMATIONS

(after G. M. Siragusa)

PHANEROZOIC

CENOZOIC

Quaternary

Pleistocene, Recent

Fluvial Lacustrine and swamp deposits

GREAT UNCONFORMITY

PRECAMBRIAN

PROTEROZOIC

Mafic Intrusives

Diabase dikes (unit 8)

Lamprophyre dikes (unit 7)

INTRUSIVE CONTACT

ARCHEAN

Felsic Intrusives

Granites, Trondhjemite, Granodiorite, Pegmatite and  
Quartz Monzonite. (unit 6)

INTRUSIVE CONTACT

Migmatitic Rocks

Diorite, Gabbro and Hornblendite (unit 5)

Subvolcanic Felsic Intrusives

Porphyries, Derived schists (unit 4)

INTRUSIVE CONTACT

Metasediments

Clastic (unit 3a), Chemical (unit 3b)

Metavolcanics

Intermediate (unit 2), Mafic (unit 1)

1986 Work Program

During the summer of 1986, the Bryndon property underwent an exploration program consisting of line-cutting, geological mapping and blasting of selected sites. Grab samples were selected at the blast sites being representative of the material at the blast location. Samples selected were assayed for trace levels of gold. As most of the claim area has undergone scarification by the local pulp and paper industry, a prospector was employed to ascertain the effect of this scarification on the claim posts and blazed lines.

Personnel

The following personnel were employed during this work program which lasted from July 22, 1986 to September 28, 1986:

- Neil Novak - project manager, geologist (Toronto, Ontario)
- Ken Monahan - linecutter (Gogama, Ontario)
- Calvin Black - prospector (Bourkes, Ontario)

Procedure

The east-west baseline previously established during the 1985 work program was re-established to the eastern border from Line 24+00E to Line 80+00E. Offsets were established perpendicular to the baseline in the southerly direction using the topofil and compass method, with flagged stations established every 100 feet. The offsets were 800 feet apart along the baseline. All data obtained is presented with respect to this grid system. The entire eastern portion of the property was geologically mapped, followed by numerous claim post checks along route. The northern and southern claim boundary were reblazed, with all claim posts being plotted as

they were encountered. One small sulphide showing was encountered during the course of the geological mapping, which was blasted open and sampled.

#### RESULTS OF PROGRAM

##### Local Geology (See figure 3)

The main portion of the map area is underlain by a series of interbedded, pyroclastic, metavolcanic rocks of intermediate composition. These pyroclastics vary from fine to coarse-grained tuffs, lapilli tuffs, and coarse bombs and blocks. The tuff sequences are frequently interbedded and numerous chert and cherty sedimentary bands were noted. A prominent layer of pillowed intermediate volcanics is traceable across the southern portion of the property striking east-west with tops to the north. Two large-scale north-south trending faults are evident through the central and eastern portion of the property as evidenced by scarp-faced valleys and displacement of local tuffaceous horizons. Within the tuff horizons the fragment size ranges from less than .05 inches to greater than 6.0 inches. The ash tuff appears as a fine-grained aphanitic unit ranging to a fine-grained phaneritic unit with angular feldspar fragments in an aphanitic groundmass.

The lapilli tuff units host numerous lens-shaped fragments up to 2 inches long. As a general rule they are stretched in a length-to-width ratio of greater than 4:1. The majority of the lapilli are felsic in composition and exhibit a white, green or rose colour.

Bombs and blocks greater than 2 inches in size are often a similar colour, shape, and composition as the lapilli described above.

The regional strike of the map area is east-southeast. Dips are near vertical, steeply north and steeply south. Where folding was observed, plunge is to the east.

A strongly magnetic, fine- to medium-grained diabase cuts the volcanic pile in an east to southeast direction roughly 6,000 feet south of the baseline. This intrusive unit then heads north towards the east shore of Canoe Lake and is mapped as far as the swampy area on the west boundary roughly 1500 feet south of the baseline. The average thickness of this unit is estimated at 400 feet.

A sulphide rich iron formation consisting of pelitic sediments, chert and numerous sulphides is evident from line 24+00E through to line 72+00E at approximately 600 feet south of the baseline to approximately 1200 feet south of the baseline. The sulphides include pyrite, chalcopyrite and pyrrhotite. Oxides include magnetite and minor hematite. The most abundant of these minerals is pyrite which varies up to 5% of the country rock. Magnetite in the iron formation varies from 5% disseminated crystals to massive amounts.

Metamorphic grade is greenschist facies. Alteration is in the form of chloritization, carbonitization, silicification, and sericitization, all in minor to moderate amounts.

#### BLASTING-SAMPLING PROJECT (Assay results)

One area was selected for blasting as a result of the geological mapping

program. This area is located on line 56+00E at 1200'S. The sulphide zone consists of pyrite and chalcopyrite in a laminated chert-quartz horizon striking 085° and dipping vertical. The chert is a dull grey, while the quartz is milky white to clear. Sulphides constitute up to 25% of the rock and are located along micro-fractures. Four samples were selected from this location each being from blast sites five feet apart. Assay certificate number A8019084 from Chemex Labs is appended (Appendix III). The highest assay obtained was 0.032 o.p.t. Au from sample Bryn 004 being the most southerly sample. Although this does not represent economic grade mineralization, it does however, indicate the presence of gold in this particular geolocial environment traceable by reconnaissance (...inexpensive...) exploration techniques.

#### INTERPRETATION OF RESULTS

It is apparent from the project to date that the iron-formation passes through the northern portion of this mapped area from location line 24+00'E at 2+00'S to line 72+00'E at 12+00'S is faulted and misplaced south some 1000 feet resultant from two major faults located along lines 48+00E and 64+00E. The total traceable length of this iron formation in this map area is 4800 feet and open at both ends as it enters into swamp or lake areas.

The fault zones are sinistral, and have a combined displacement of nearly 1000 feet. <sup>The iron formation is</sup> geochemically enriched in gold in concentrations up to .032 o.p.t. Au. The mineralization is in the form of disseminated magnetite, pyrite and chalcopyrite, and appears to be fairly consistant throughout.

This type of iron-formation is prevalent in numerous mining camps in the Canadian Archean. The Abitibi greenstone belt is perhaps the most famous



host for gold bearing iron-formations, claiming numerous deposits of this type of setting including: the Agnico-Eagle deposit near Joutel, Quebec and the Carshaw deposit and the Malga deposit southeast of Timmins, Ontario. Actual grades and tonnage of these three deposits are as follows:

Agnico-Eagle deposit 1.2 million tons (.17 o.p.t. Au) (produced until 1977)

Carshaw deposit 167,000 tons (.205 o.p.t. Au) (Est. 1982)

Malga deposit 80,000 tons (0.34 o.p.t. Au) (Est. 1944)

Several other gold deposits are located within the iron-formation setting in Canada including: Cullaton Lake Gold Deposit N.W.T., Hard Rock Mine in Long Lac area Ontario, the adjacent Macleod-Cockshutt Mine and the recently discovered Opapmiskan Lake deposit near Pickle Lake, Ontario.

The Bryndon property iron-formation has many similarities to all of these properties or mines.

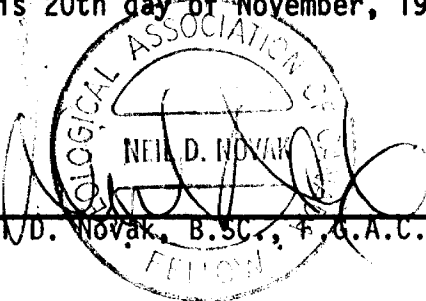
#### CONCLUSIONS AND RECOMMENDATIONS

Bryndon Ventures should continue their evaluation of this property. The exploration results to date have been encouraging, in that, an iron-formation zone containing anomalous gold value has been located and traced for an additional 4800' totalling 7800' through the property, as a result of the 1985 and this 1986 program. Several other exposures of iron formation have also been located, north and south of the main zone, but have yet to be adequately evaluated, to ascertain their significance. The iron-formation, as located, responds very well to ground reconnaissance electromagnetic (EM16-VLF) techniques and when encountered has successfully

been stripped using surface trenching techniques in the 1985 work program. Gold mineralization in this iron-formation seems to be related to several facies changes along the strike of the iron-formation quite often associated with altered magnetite and pyrrhotite. The gold mineralization also seems to be related to quartz quenching (veining plus silicification) and structural disruptions, as at the line 56+00E occurrence.

Now that the iron formation has been identified the entire zone should undergo a detailed geological investigation at the scale of 1" to 100'. This would entail cutting a control grid system over the entire outlined iron-formation to accurately map in its limits. Once this has been completed the line should receive detailed ground geophysics. (EM-16 plus magnetics) with stations read every 50 feet along lines which are 100 feet apart. Soil (humus) geochemical sampling should be completed over this grid system, followed by backhoe trenching over multi-anomalous areas. Once favourable results are obtained several short stratigraphic diamond drill holes would be required to test down-dip extensions of surface results. (Estimate of cost available upon request). The remainder of this property should continue to receive an on-going evaluation to investigate this presence of any more geologic environments or structures which may have economic significance, possibly related to the iron-formational setting.

This report is respectfully submitted this 20th day of November, 1986.

  
NEIL D. NOVAK  
FELLOW  
NEIL D. NOVAK, B.Sc., F.G.A.C.

REFERENCES

Gordon J. G. Lovell, H. L., de Grijis, J., Davies, R.F

1979: Gold Deposits of Ontario; Ontario Geological Survey Mineral Deposits Circular no. 18, pt.2.

O.G.S.

1982: Airborne Electromagnetic and Total Intensity Magnetic Survey, Swayze Area, Yeo Lake Sheet. District of Sudbury: by Questor Surveys Ltd. for the O.G.S. Map 80551, Geophysical/Geochemical Series, Scale 1:20000, survey and compilation December 1980 to Feb. 1981.

Siragusa, G.M.,

1980: Jerome Area (East), District of Sudbury: Ontario Geophysical Survey prelim. map P.2369, Geological Series, Scale 1:15840.

Siragusa, G.M.,

1981: Precambrian Geology of Chester and Yeo Twps., and parts of Neville and Potier Twps., Sudbury District, Ontario Geological Survey prelim. map P.2449, Geological Series, Scale 1:15840.

Geophysical Surveys Inc.,

1980: Helicopter Geophysical Survey with the REXHEM-1 System Gogama Ontario.

Questor Surveys Limited,

1980: File 22062 Airborne Electromagnetic Survey Opeepeesway Lake Area, Ontario.

\*(plus several other in-house confidential documents including:)\*

Morrison, W.F.,

1981: Report on Mining Claim Groups and Mineral Occurences in the townships of Groves, Huffman, Mallard and Marion

Darke, K.H.,

1982: Preliminary Exploration Report on the Gogama Area gold Property Chester, Neville, Potier and Yeo Townships Ontario.

Graham, D.B.

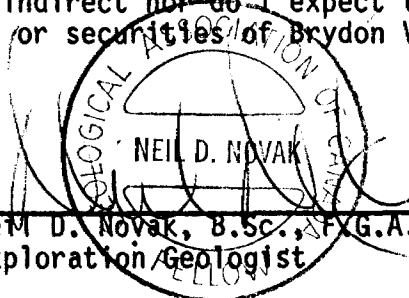
1986:

Geological Survey Report, Yeo Township Claims, B & B  
Mining (Canada) Limited.

CERTIFICATE

I, NEIL D. NOVAK, do hereby certify:

- (1) that I am an exploration geologist residing at 818-60 Southport Road, Toronto, Ontario;
- (2) that I am a graduate of the University of Waterloo, Waterloo, Ontario and hold a Bachelor of Science degree as an Earth Scientist dated 1977;
- (3) that I am a fellow in good standing of the Geological Association of Canada;
- (4) that I have been engaged in the practice of this profession since graduating;
- (5) that I have no interest, direct or indirect nor do I expect to receive any such interest in the properties or securities of Brydon Ventures Inc.

  
NEIL D. NOVAK, B.Sc., F.G.A.C.  
Exploration Geologist

November 20, 1986

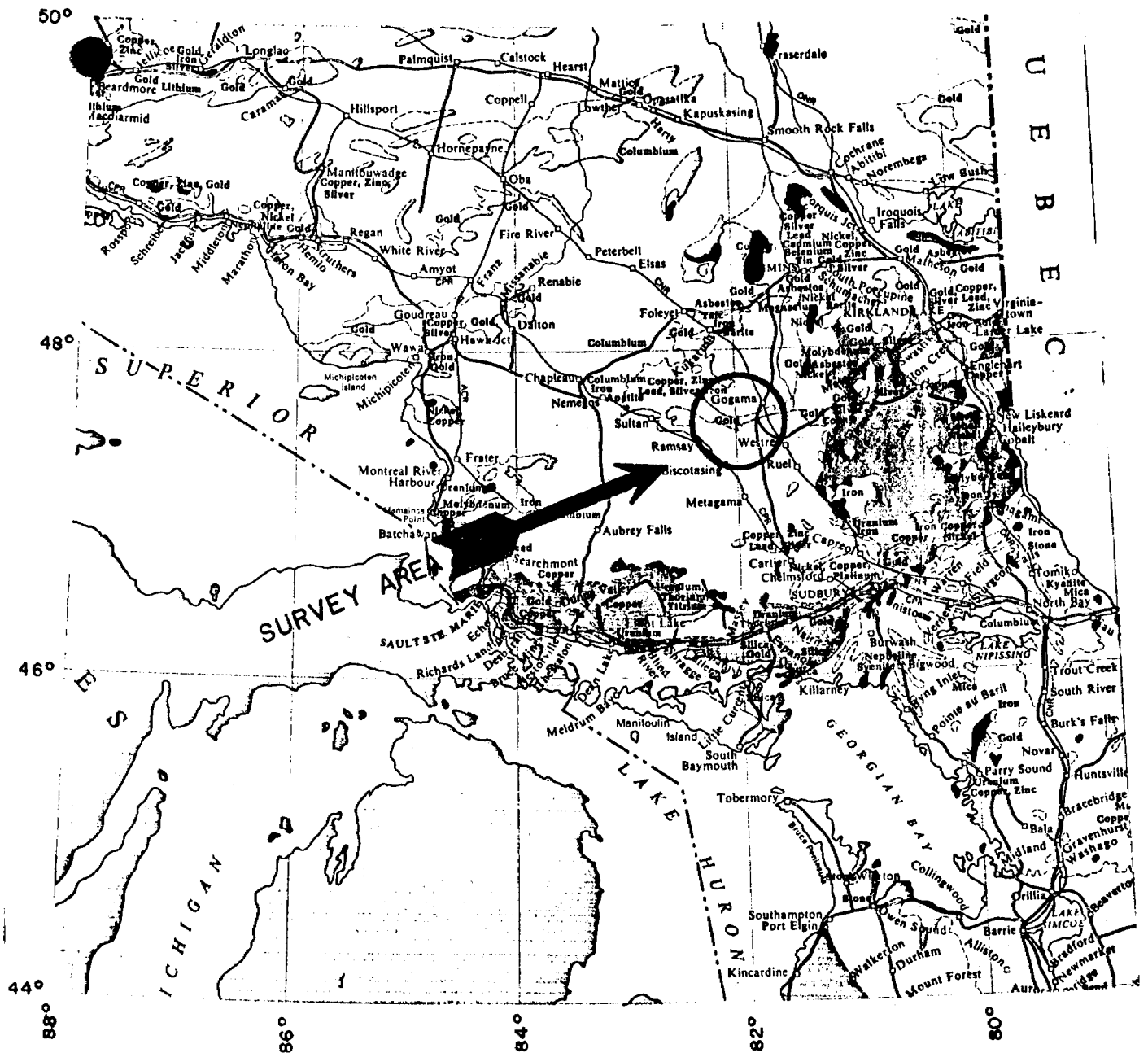
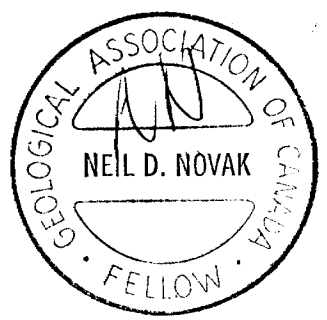
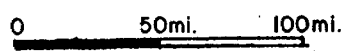


FIGURE 1  
 LOCATION MAP  
 CENTRAL ONTARIO



after O.G.S. Map 2389

**NOMINEX**

APPENDIX II

Claim Listing	Ownership	Record Date	Credits	Credits due/date
P682399 to 412	B & B	Jan 12, 84	80	20 days by 01/12/87*
P734395 to 411	B & B	Jan 12, 84	80	20 days by 01/12/87*
P783882 to 888	B & B	Jan 12, 84	80	20 days by 01/12/87*
P783899 to 913	B & B	Jan 12, 84	114	46 days by 01/12/88
P783922 to 936	B & B	Jan 12, 84	114	46 days by 01/12/88

Please note that all geophysical credits allowed have been used, any further work credited cannot be geophysical in nature, although geophysical programs do assist in continuing the on-going evaluation of the property.

Note

\* These claims will receive this report to be applied against them as assessment credits receiving 20+ days for this report. There shall be no assessment requirements until January of 1988.



# Chemex Labs Ltd.

212 Brooksbank Ave.  
 North Vancouver, B.C.  
 Canada V7J 2C1  
 Phone: (604) 984-0221  
 Telex: 043-52597

Analytical Chemists • Geochemists • Registered Assayers

**CERTIFICATE OF ASSAY**

TO : NOVAK, NEIL

\*\*

CERT. # : A8619084-001-A  
 INVOICE # : I8619084  
 DATE : 16-OCT-86  
 P.O. # :  
 YEO

818 - 60 SOUTHPORT ST.  
 TORONTO, ONT.  
 M6S 3N4

ATT'N NEIL NOVAK

Sample description	Prep code	Au oz/T					
BRYN 001	207	<0.002	--	--	--	--	--
BRYN 002	207	0.004	--	--	--	--	--
BRYN 003	207	0.008	--	--	--	--	--
BRYN 004	207	0.036	--	--	--	--	--

*W. Santapanini*

VOI rev. 4/85

.....  
 Registered Assayer, Province of British Columbia





Ministry of  
Northern Development  
& Mines  
Ontario

Report of Work

(Geophysical, Geological,  
Geochemical and Expenditures)



410095E0051 2.9602 YEO

374/86

Mining Act 2.9602

900

Note: - Excess space on this form, outside the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Do not use shaded areas below.

Type of Survey(s) <b>GEOLOGICAL</b>		Township or Area <b>YEO T.D. G2481</b>	
Claim Holder(s) <b>BRINDON VENTURES INC.</b>		Prospector's Licence No. <b>T-4658 (T-361)</b>	
Address <b>505 - 340 W. CORDOVA ST VANCOUVER B.C. V6B 2V3</b>			
Survey Company <b>NOMINEX</b>		Date of Survey (from & to) Day Mo. Yr. <b>22 07 86 28 09 86</b>	Total Miles of line Cut <b>15.36 mi.</b>
Name and Address of Author (of Geo-Technical report) <b>NEIL NUAK 818-60 Southport St Toronto M6S 3N4</b>			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	<b>Geological</b>	<b>40</b>
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here <b>RECEIVED DEC 10 1986</b>	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
<b>MINING CLAIMS SECTION</b>	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	783882		P	682404	
	783883			682405	
	783884			682406	
	783885			682407	
	783886			682408	
	783887			682409	
	783888			682410	
	783889			682411	
	783890			734395	
	783891			734396	
	783892			734397	
	783893			734398	
	783894			734399	
	783895			734400	
	783896			734401	
	783897			734402	
	783898			734403	
	783899			734404	
	682399			734405	
	682400			734406	
	682401			734407	
	682402			734408	
	682403			734409	
	734411			734410	

Expenditures (excludes power stripping)

Type of Work Performed  
**DEC 03 1986**

Performed on Claim(s)  
**DEC 03 1986**

Calculation of Expenditure Days Credits

Total Expenditures  ÷ 15 = Total Days Credits

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded **1886** Date Recorded **Dec. 9 / 86**

Mining Record **[Signature]**

Date Approved as Recorded **1886** Branch Director **[Signature]**

Date **DEC 9 1986** Recorded Holder or Agent (Signature) **[Signature]**

Geological Division of Work

I hereby certify that I have personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work myself or witnessed same during and/or at its completion and the annexed report is true.

Name and Address of Person Certifying  
**NEIL NUAK 818-60 Southport St Toronto Ont**

Date Certified **Dec 2 / 86** Certified by (Signature) **[Signature]**

Total number of mining claims covered by this report of work **48**

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Instructions: - Please type or print.  
 - If number of mining claims traversed exceeds space on this form, attach a list.  
 Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.  
 - Do not use shaded areas below.

374/86  
 Mining Act 2.9602.

ICAL  
 D.N. VENTURES INC. (Bancroft Mining (Canada) Limited)  
 340 W. CORDOVA ST VANCOUVER B.C. V6B 2V3  
 Township or Area: YEO TP. G2481  
 Prospector's Licence No.: T-4653 (T-311)

Date of Survey (from & to): 22 07 86 to 28 07 86  
 Total Miles of line Cut: 15.36 mi.  
 Address of Author (of Geo-Technical report): NEX  
 Address of Author: 818-60 Southport St Toronto M6S 3N4

Provisions requested per Each Claim in Columns at right

Provisions	Geophysical	Days per Claim
first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	10
	Geochemical	

Man Days

Complete reverse side and enter total(s) here

Prostate Goals:  
 $(48 \times 20) \div (48 + 53) = 15.67$   
 $\Rightarrow 16 \text{ days}$

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.

Electromagnetic  
 Magnetometer

Expenditures (excludes power stripping)

Date of Work Performed: DEC 03 1986

Recorded on Claim(s):

Apportionment of Expenditure Days Credits

Total Expenditures  $\div 15 =$  Total Days Credits

Provisions

Total Days Credits may be apportioned at the claim holder's discretion. Enter number of days credits per claim selected in columns at right.

Recorded Holder (or Agent) (Signature):

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	783582	1/4	P	682404	7/4
	783583	1/4		682405	1/4
	783584	1/4		682406	1/4
	783585	1/4		682407	1/2
	783586	1/4		682408	1/2
	783587	1/4		682409	1/4
	783588	3/4		682410	1/4
	783589	1/4		682411	1/4
	783590	1/4		734395	1/4
	783591	1/4		734396	1/4
	783592	1/4		734397	1/4
	783593	1/4		734398	1/4
	783594	1/2		734399	1/4
	783595	1/4		734400	1/4
	783596	1/4		734401	1/4
	783597	1/4		734402	1/4
	783598	1/4		734403	1/4
	783599	1/4		734404	1/4
	682399	1/4		734405	1/4
	682400	1/4		734406	1/4
	682401	1/4		734407	1/4
	682402	1/4		734408	1/4
	682403	1/4		734409	1/4
	734411	1/4		734410	1/4

Total number of mining claims covered by this report of work: 48

For Office Use Only

Total Days Cr. Recorded: 1886  
 Date Recorded: Dec. 9/86  
 Mining Recorder: [Signature]  
 Date Approved as Recorded: [Signature]  
 Branch Director: [Signature]

PORCUPINE MINING DIVISION  
 RECEIVED  
 DEC 09 1986  
 I hereby certify that I have read and have acquired intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work traversed same during and after its completion and the annexed report is true.  
 818-60 Southport St Toronto



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.

Type of Survey(s) GEOLOGICAL  
Township or Area 4E0 TP G 2481  
Claim Holder(s) BRANDON VENTURES INC.  
Survey Company NOMINEX  
Author of Report NEIL D NOVAK  
Address of Author 818-60 SOUTHPORT ST TORONTO  
Covering Dates of Survey July 22 - Sept 28 /86  
(linecutting to office)  
Total Miles of Line Cut 15.36 miles (incl. B.L.)

**MINING CLAIMS TRAVERSED**  
List numerically

P	783882	(prefix)	(number)
	783883		
	783884		
	783885		
	783886		
	783887		
	783888		
	783889		
	783890		
	783891		
	783892		
	783893		
	783894		
	783895		
	783896		
	783897		
	783898		
	783899		
	682399		
	682400		
	682401		
	682402		
TOTAL CLAIMS		<u>48</u>	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> per claim
Geophysical	
--Electromagnetic _____	
--Magnetometer _____	
--Radiometric _____	
--Other _____	
Geological _____	
Geochemical _____	

ENTER 40 days (includes line cutting) for first survey.  
ENTER 20 days for each additional survey using same grid.

**AIRBORNE CREDITS** (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Dec 2/86 SIGNATURE: [Signature]  
Author of Report for Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.4227

<u>Previous Surveys</u>			<u>Claim Holder</u>
<u>File No.</u>	<u>Type</u>	<u>Date</u>	

**RECEIVED**

DEC - 5 1986

MINING LANDS SECTION

OFFICE USE ONLY

# GEOPHYSICAL TECHNICAL DATA

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

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_

Profile scale \_\_\_\_\_

Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_

Accuracy – Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base Station check-in interval (hours) \_\_\_\_\_

Base Station location and value \_\_\_\_\_

**ELECTROMAGNETIC**

Instrument \_\_\_\_\_

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy \_\_\_\_\_

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency \_\_\_\_\_  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

**GRAVITY**

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

**INDUCED POLARIZATION  
RESISTIVITY**

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_

– Off time \_\_\_\_\_ Range \_\_\_\_\_

– Delay time \_\_\_\_\_

– Integration time \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

# **NOMINEX**

**(NOVAK MINERAL EXPLORATIONS)**

NEIL D. NOVAK, B.SC., F.G.A.C.  
CONSULTING GEOLOGIST

RAI PICHETTE

Please find enclosed two copies of a geological report on Bryndon Ventures' property in Geo Tp. of the Porcupine Mining Division, as well as the pink report of work form. Please call at the number below if there are any questions.

Best regards

Neil Novak

additional claims

Bryndon Ventures

Yeo TP.

- P 682403  
682404  
682405  
682406  
682407  
682408  
682409  
682410  
682411  
734395  
734396  
734397  
734398  
734399  
734400  
~~734401~~  
734402  
734403  
734404  
734405  
734406  
734407  
734408  
734409  
734410  
734411

**SELF POTENTIAL**

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

**RADIOMETRIC**

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth - include outcrop map)

**OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)**

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

**AIRBORNE SURVEYS**

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_  
(specify for each type of survey)

Accuracy \_\_\_\_\_  
(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in:      per cent        
   p. p. m.        
   p. p. b.     

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



2.9602

February 13, 1987

Your File: 374/86  
Our File: 2.9602

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

RE: Notice of Intent dated January 23, 1987  
Geological Survey on Mining Claims  
P 682399, et al, in Yeo 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,

J.C. Smith, A/Manager  
Mining Lands Section  
Mineral Development and Lands Branch  
Mines and Minerals Division

Whitney Block, Room 6610  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Bryndon Ventures Inc  
Suite 505  
340 West Cordova Street  
Vancouver, B.C.  
V6B 2V3

Neil Novak  
Suite 818  
60 Southport Street  
Toronto, Ontario  
M6S 3N4

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

Resident Geologist  
Timmins, Ontario

Encl.



Ministry of  
Northern Development  
and Mines

Technical Assessment  
Work Credits

2.9602

File	2.9602
Date	January 23, 1987
Mining Recorder's Report of Work No.	374/86

Recorded Holder	BRYNDON VENTURES INC
Township or Area	YEO TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ <b>16</b> _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 783882 to 99 inclusive 682399 to 411 inclusive 734395 to 411 inclusive

Special credits under section 77 (16) for the following mining claims

--

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey <input type="checkbox"/> insufficient technical data filed
<p>- Line cutting credits not allowed</p>

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Dec 31/86

Mining Lands Comments

Clarence Kustra

They have used a line spacing of 800 feet for this geological survey. Do you feel it appropriate to reduce credit in this case? Also, should traverse lines be drawn on map?

Dennis King

To: Geophysics

Comments

Ray -  
L.C. credits not allowed.  
Topofil is not linecutting, according to Clarence. D.K.

Approved  Wish to see again with corrections

Date \_\_\_\_\_ Signature \_\_\_\_\_

To: Geology - Expenditures

Comments

A geology is better stick to the requirements, decrease credit a bit. Traverses are evident from the outcrop locations shown & need not be included here.

Approved  Wish to see again with corrections

Date Dec 16/87 Signature CKustra

To: Geochemistry

Comments

Approved  Wish to see again with corrections

Date \_\_\_\_\_ Signature \_\_\_\_\_

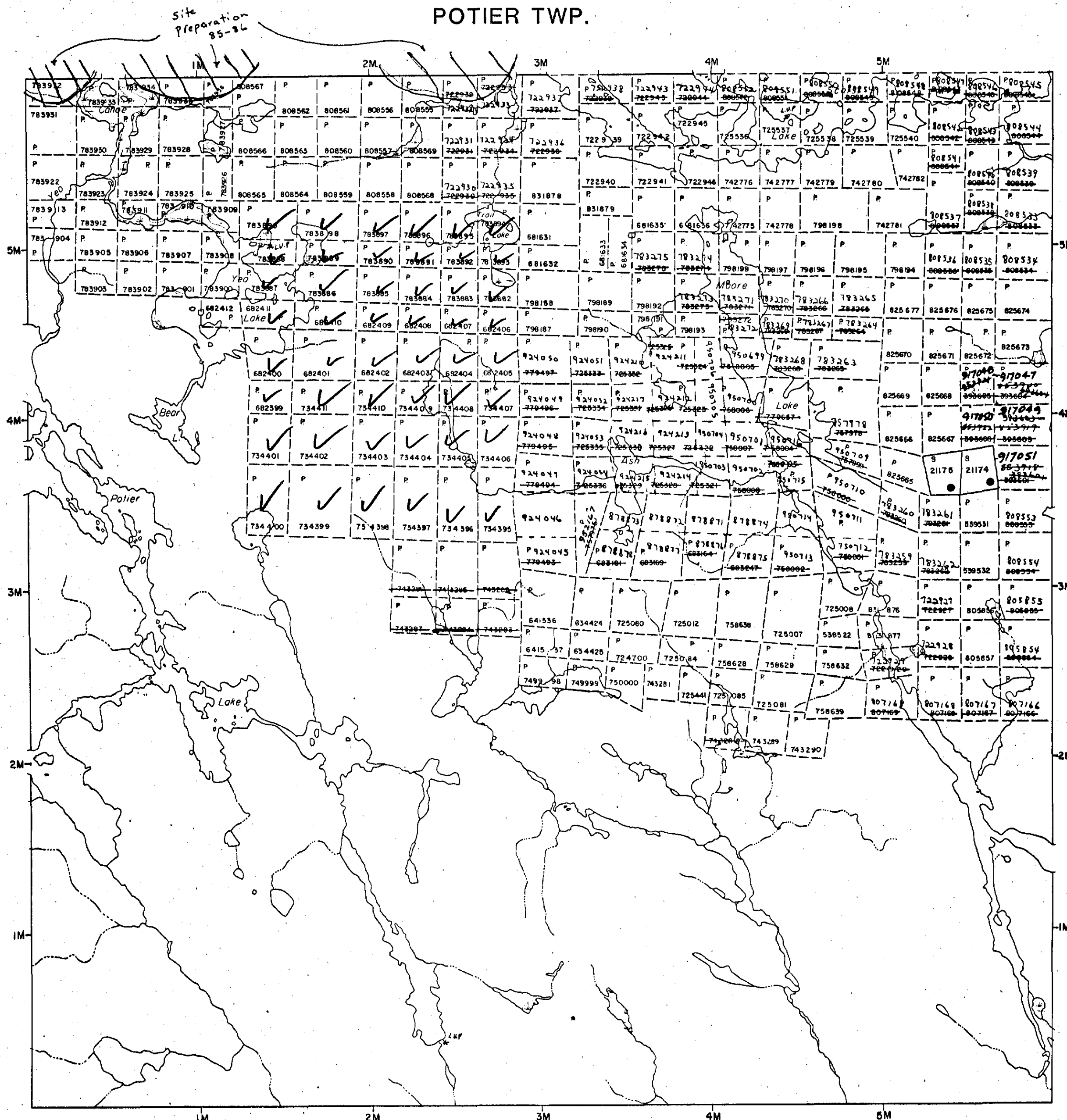
To: Mining Lands Section, Room 6610, Whitney Block. (Tel: 5-4888)

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M. + S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File



LEGEND

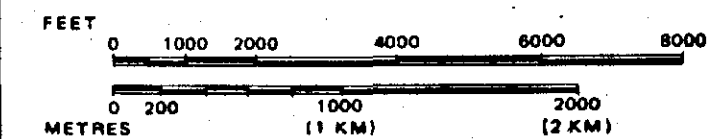
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊘
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MARCH 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP  
**YEO**  
 M.N.R. ADMINISTRATIVE DISTRICT  
**GOGAMA**  
 MINING DIVISION  
**PORCUPINE**  
 LAND TITLES / REGISTRY DIVISION  
**SUDBURY**

Ministry of Natural Resources  
 Land Manager Branch

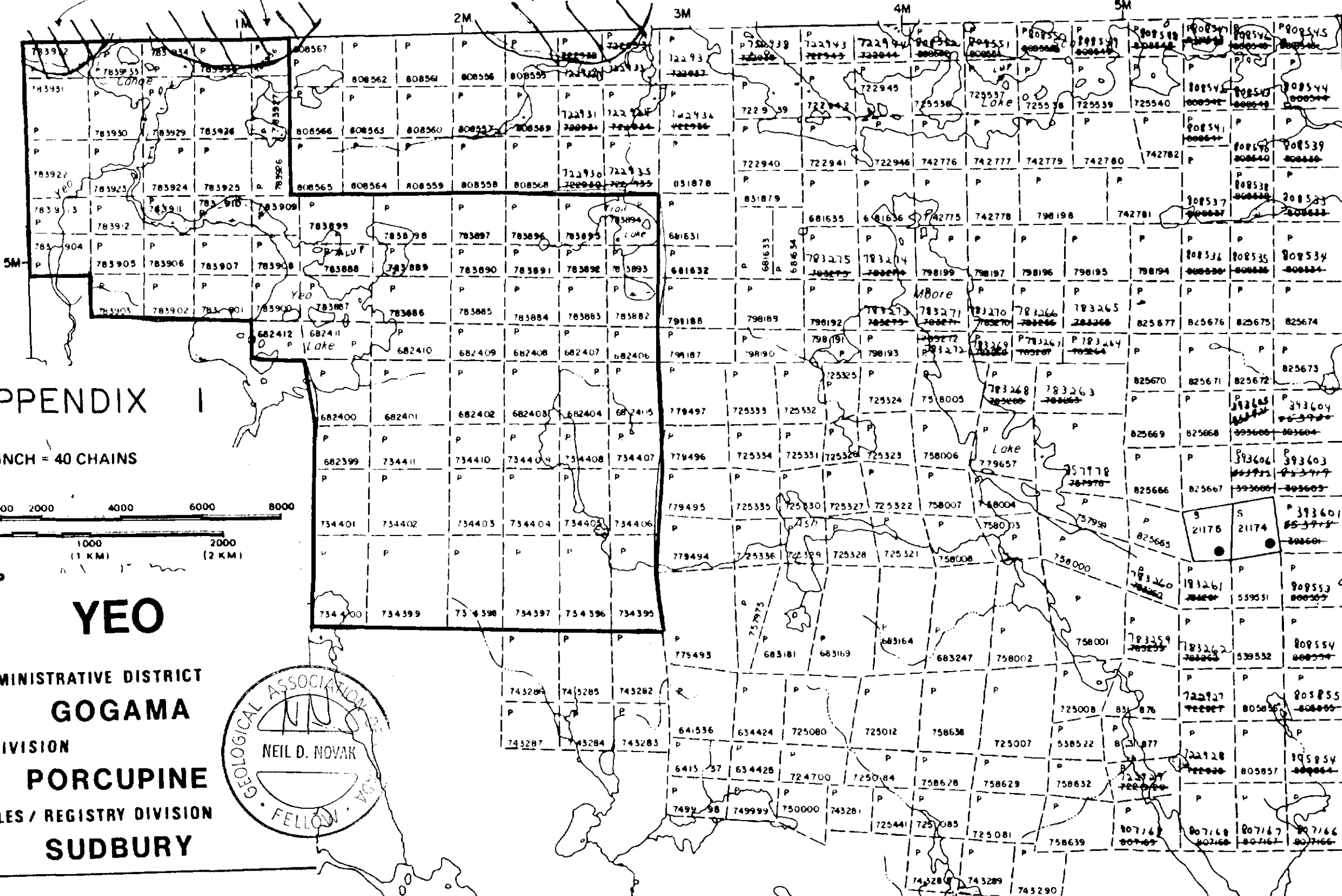
Date: OCTOBER, 1983  
 receive of Clerk  
 Mar 28/85  
 Number: **G-2481**

RECEIVED  
 JAN 20 1987



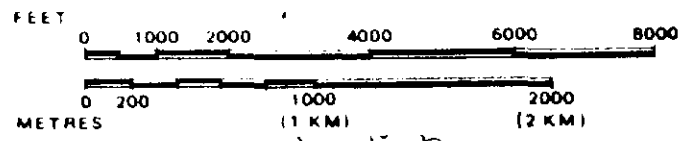
POTIER TWP.

Site Preparation 85-86



APPENDIX I

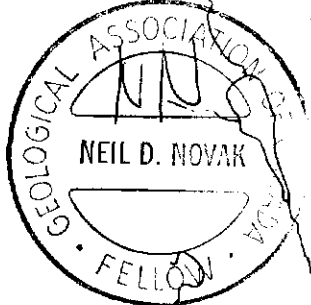
SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

YEO

M.N.R. ADMINISTRATIVE DISTRICT  
GOGAMA  
MINING DIVISION  
PORCUPINE  
LAND TITLES / REGISTRY DIVISION  
SUDBURY

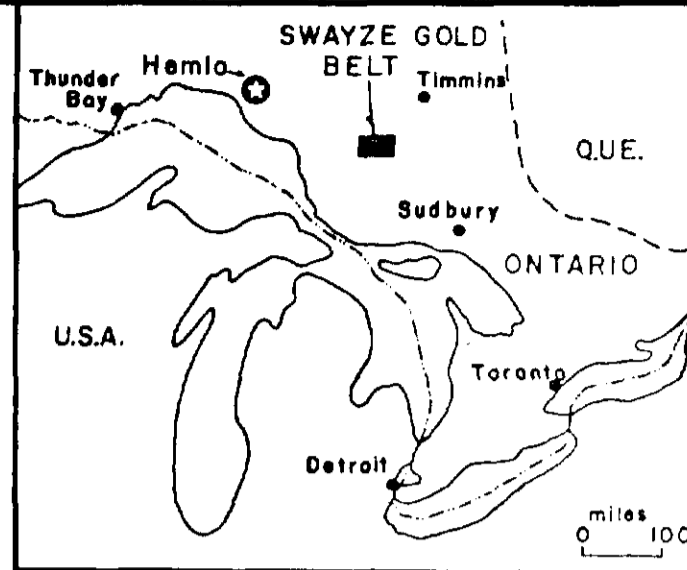
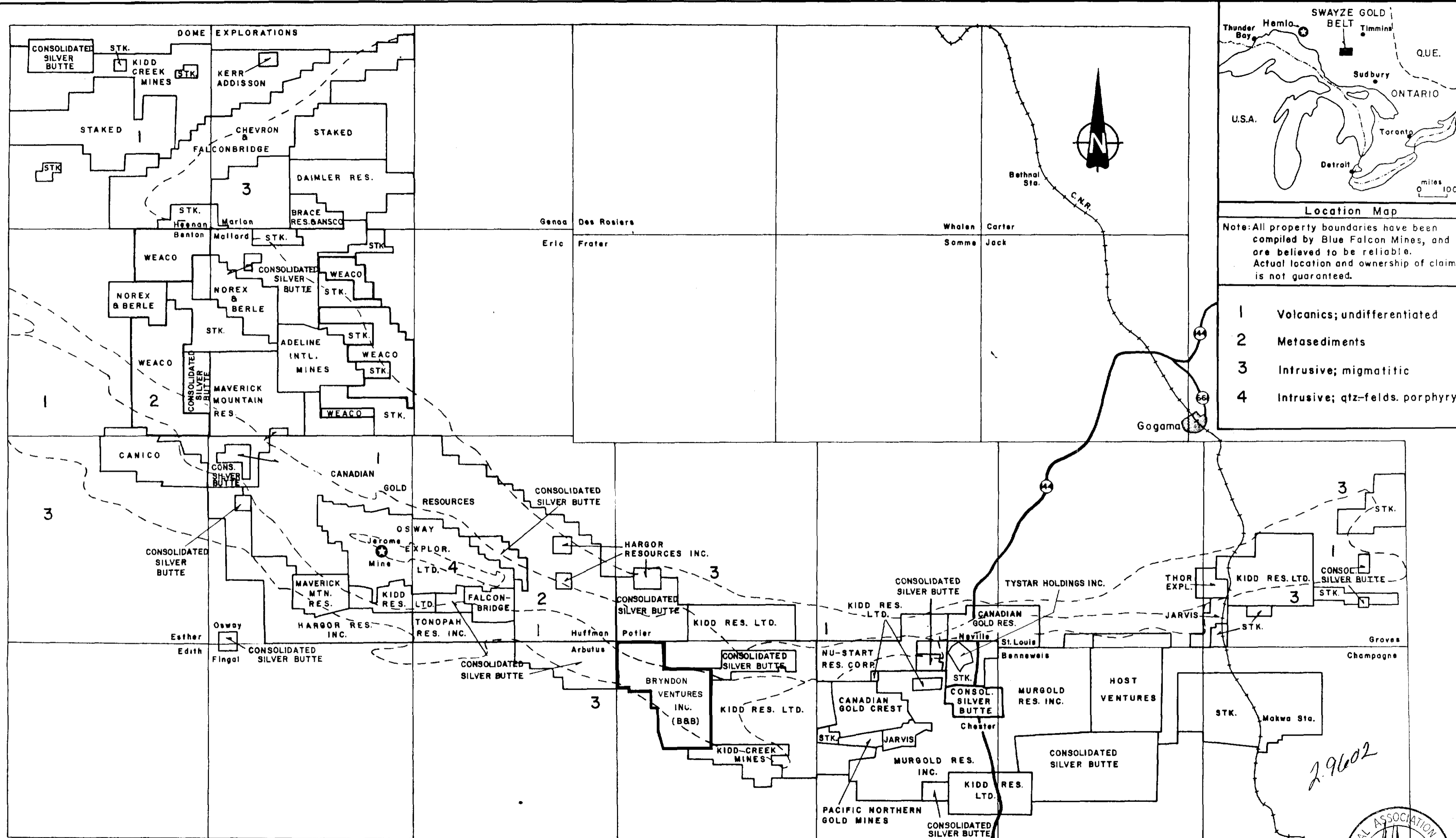


CHESTER TWP.



210

Date OCTOBER, 1983  
Number G-2481  
Handwritten: receive of checked [initials] Mar 28/85



**Location Map**

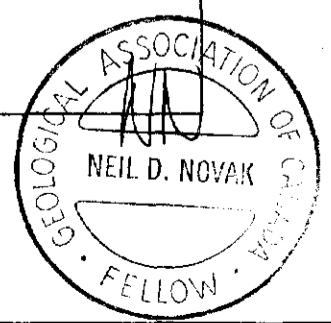
Note: All property boundaries have been compiled by Blue Falcon Mines, and are believed to be reliable. Actual location and ownership of claims is not guaranteed.

- 1 Volcanics; undifferentiated
- 2 Metasediments
- 3 Intrusive; migmatitic
- 4 Intrusive; qtz-felds. porphyry

**PROPERTY COMPILATION MAP**  
**SWAYZE SYNCLINE AREA**  
**GOGAMA FOLEYET AREA**

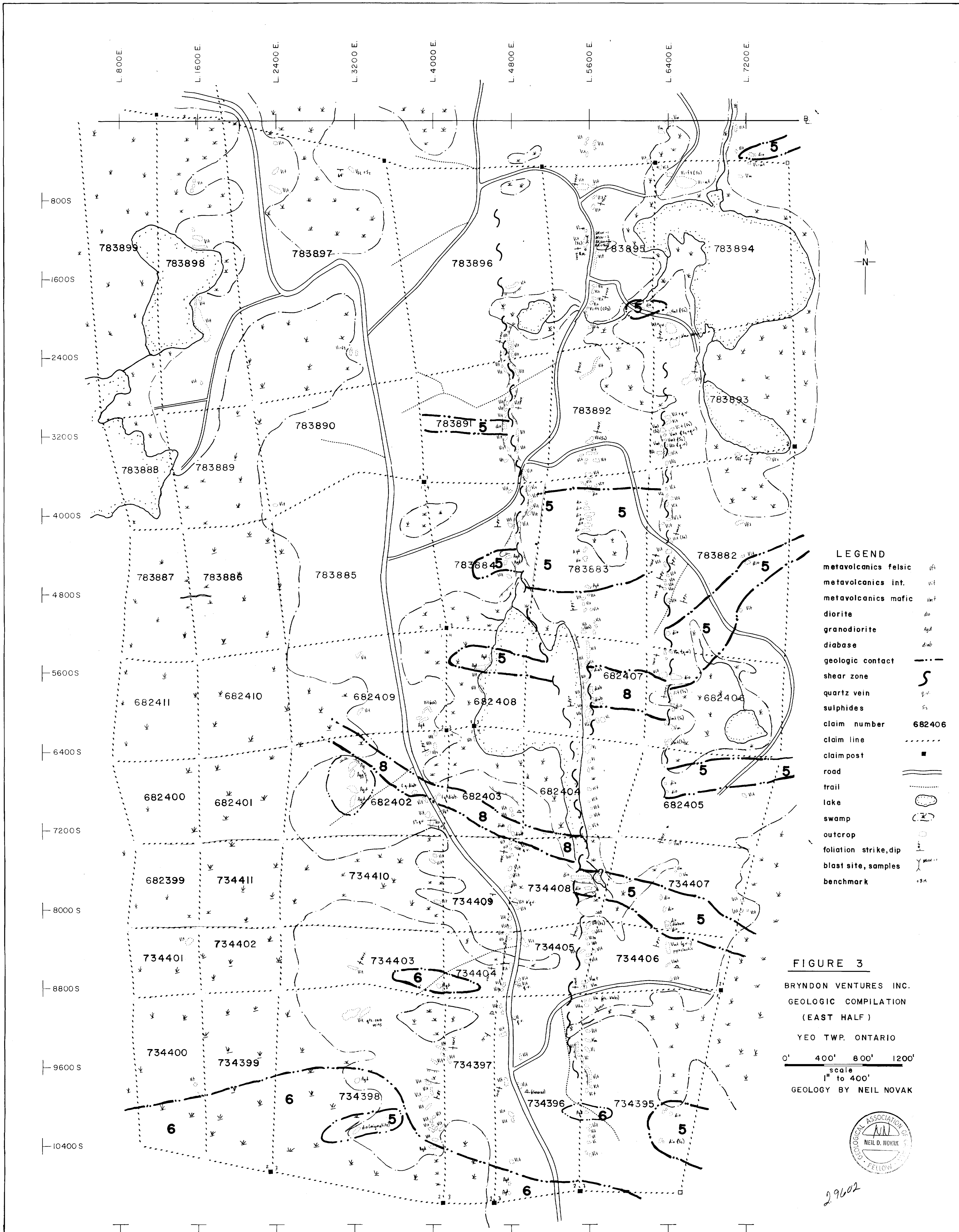
Scale - 0 1 2  
 miles

**FIGURE 2**



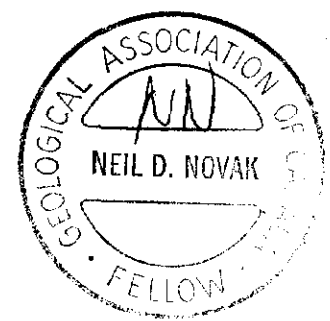
2.9602





- LEGEND**
- metavolcanics felsic Vf4
  - metavolcanics int. Vf1
  - metavolcanics mafic Vmf
  - diorite dio
  - granodiorite Agd
  - diabase diab
  - geologic contact - - - -
  - shear zone S
  - quartz vein q.v.
  - sulphides Ss
  - claim number 682406
  - claim line - - - -
  - claim post ■
  - road ————
  - trail - - - -
  - lake (with wavy lines)
  - swamp (with wavy lines)
  - outcrop (with dots)
  - foliation strike, dip (with arrows)
  - blast site, samples (with star symbols)
  - benchmark (with crosshair)

**FIGURE 3**  
 BRYNDON VENTURES INC.  
 GEOLOGIC COMPILATION  
 (EAST HALF)  
 YEO TWP. ONTARIO  
 0' 400' 800' 1200'  
 scale  
 1" to 400'  
 GEOLOGY BY NEIL NOVAK



29602

