



42E12NE0195 2.6002 VINCENT

010

GEOLOGY OF THE PICHETTE OPTION

(Project 54019)

VINCENT TWP., ONTARIO

NTS 42/E/12

RECEIVED

NOV 9 1983

MINING LANDS SECTION

Toronto, Ontario
October 17, 1983

D.H. Waddington



42E12NE0195 2.6002 VINCENT

010C

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SUMMARY AND CONCLUSIONS

A geological survey was conducted over 6 claims of the 16 claim Pichette Option block during June, 1983. The claims cover the original showing where the presence of visible gold has been known for many years. The south part of the survey area is underlain by mafic volcanic rock with thin interflow units of banded iron formation (chert + magnetite, chert + chlorite or chert + tremolite) while the north part is totally drift covered. A quartz vein containing arsenopyrite and tourmaline as well as anomalous gold was also located in one of the iron formation units.

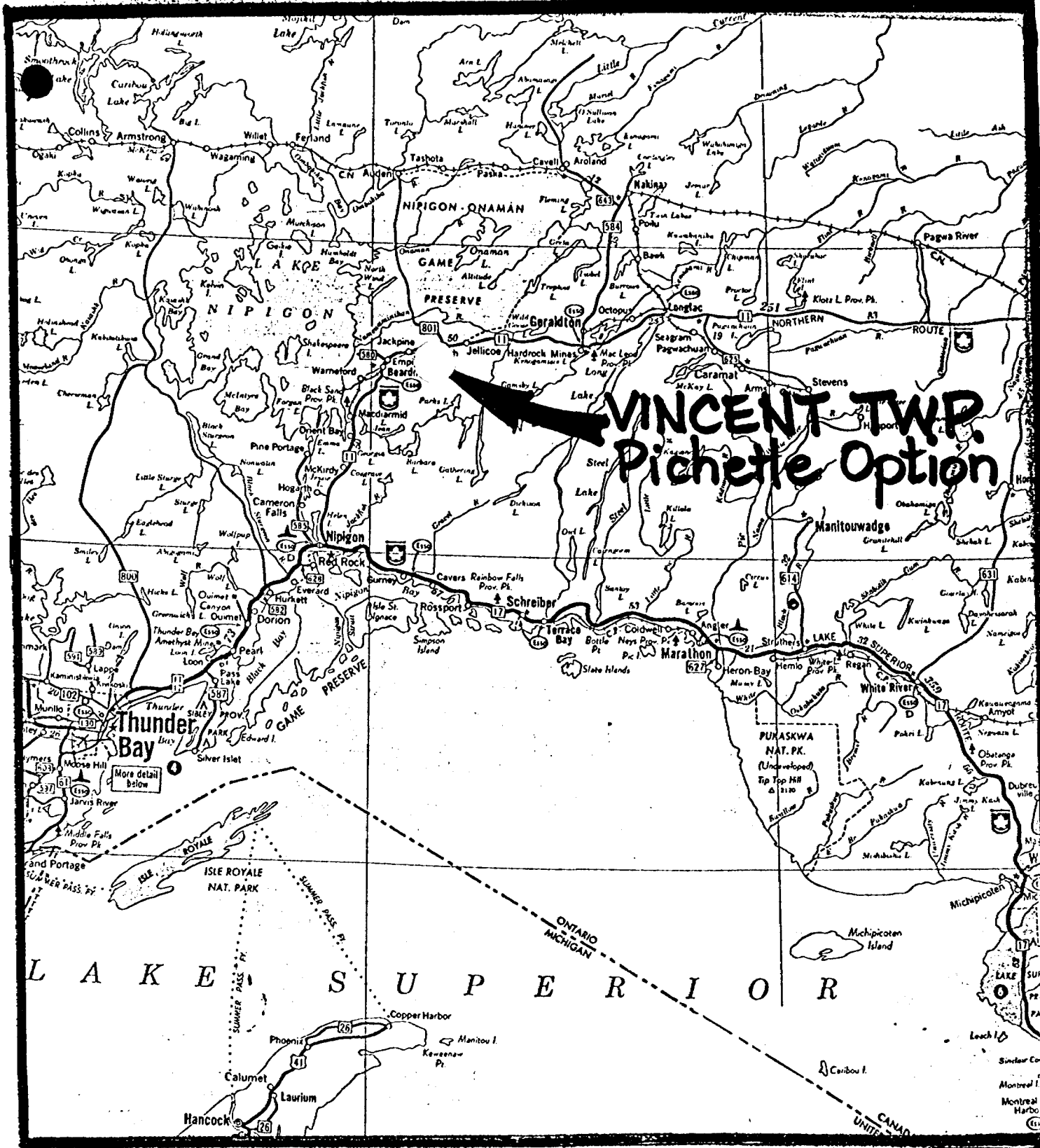
LOCATION AND ACCESS

The 6 claims covered by the present survey are located in Vincent Township, 9 miles WSW of Jellicoe, Ontario, and 1/2 mile south of the CNR tracks and the Blackwater River as shown in Figures 1 and 2. The only major difficulty for access is the Blackwater River which can be next to impassable during high water although at low water a four wheel drive truck can allow access to the centre of the property on good bush roads.

TOPOGRAPHY & VEGETATION

Relief on the northern 3 surveyed claims is minimal with thin swamp cover overlying sand and clay. The southern 3 claims display much sharper relief with steep sided rock ridges up to 50 feet high forming prominent east-west ridges separated by swampy valleys. Crosscutting (fault?) valleys occur in a few places.

Vegetation cover is relatively open for the most part. In the northeast and south central parts of the block are some substantial areas of cedar and alder swamp. High, sandy terrain



CANAMAX RESOURCES INC.,
 Vincent Township
PICHETTE OPTION
LOCATION MAP

1" = 30 mi.

in the northwest corner is covered by open, mature jackpine and poplar. The rocky ridges are covered by a mixed second growth of fir, spruce and poplar after an approximately 40 year old cut. The rest of the low ground is wet and consists of spruce and/or alder growth.

PAST WORK

Although the showing appears to have been known for some time, little assessment work has been filed. the only report clearly describing the property is a property examination report by W.S. Hamilton from 1938 which describes the original showing as free gold in quartz veins encountered during trenching of apparently barren material along strike from the Northern Empire Mine. The property was known as the Morrison-Smith claims and the Toronto assessment files number is 63.3860.

The area was covered, but not described, in G. B. Langford's 1928 Ontario Dept. of Mines report (Vol. 37 part 4) entitled "Geology of the Beardmore-Nezah Gold Area, Thunder Bay district, Ontario". More exhaustive descriptions of the Dalton and other claim blocks close by to the south are included in Langford's report.

During the summer of 1983 the townships of Vincent and McComber were being re-mapped by M. Carter of the Ontario Geological Survey.

GENERAL GEOLOGY

According to ODM maps 37K and 2102 the property lies in the Beardmore-Geraldton greenstone belt, with the present baseline being near a contact between metasedimentary rocks on the north and metavolcanics on the south. To the west at the Northern Empire, Sand River and Leitch Mines underground workings encountered a thick sheet of Logan (Proterozoic) diabase at depth. A unit of this material outcrops about 2 miles east of Beardmore, possibly implying a possible pre-erosional diabase sheet existing above the present property.

DETAILED GEOLOGY

The accompanying geological map, (Figure 3) at a scale of 1:2000 illustrates the distribution of outcrops and lithologies encountered in the present survey. The grid lines were cut from an East-West (magnetic) baseline at intervals of 125 meters, with stations picketed every 25 meters.

The most common lithology is mafic volcanic (unit 1) with coarser layers or lenses of more massive, gabbroic to dioritic material (Unit 4), probably in part coarse flow-material. Locally pillows can be, found only slightly flattened, and tops are indicated to the north although for the most part the volcanics occur as massive schistose flows.

By reason of comparison with the Tombill and Dalton properties to the south the rock unit receiving much attention was the iron seiments (map unit 2). These consist of relatively thin (0.5 to 5 meter) interflow units of limited strike length, varying from poorly bedded to thinly bedded, sugary textured metachert (crumbly weathering) with interbeds of magnetite, chlorite, sulphides or amphiboles (tremolite) at different locations. Often more than one iron mineral was found at a given outcrop. No grab samples taken from iron sediment materials gave any significant gold values.

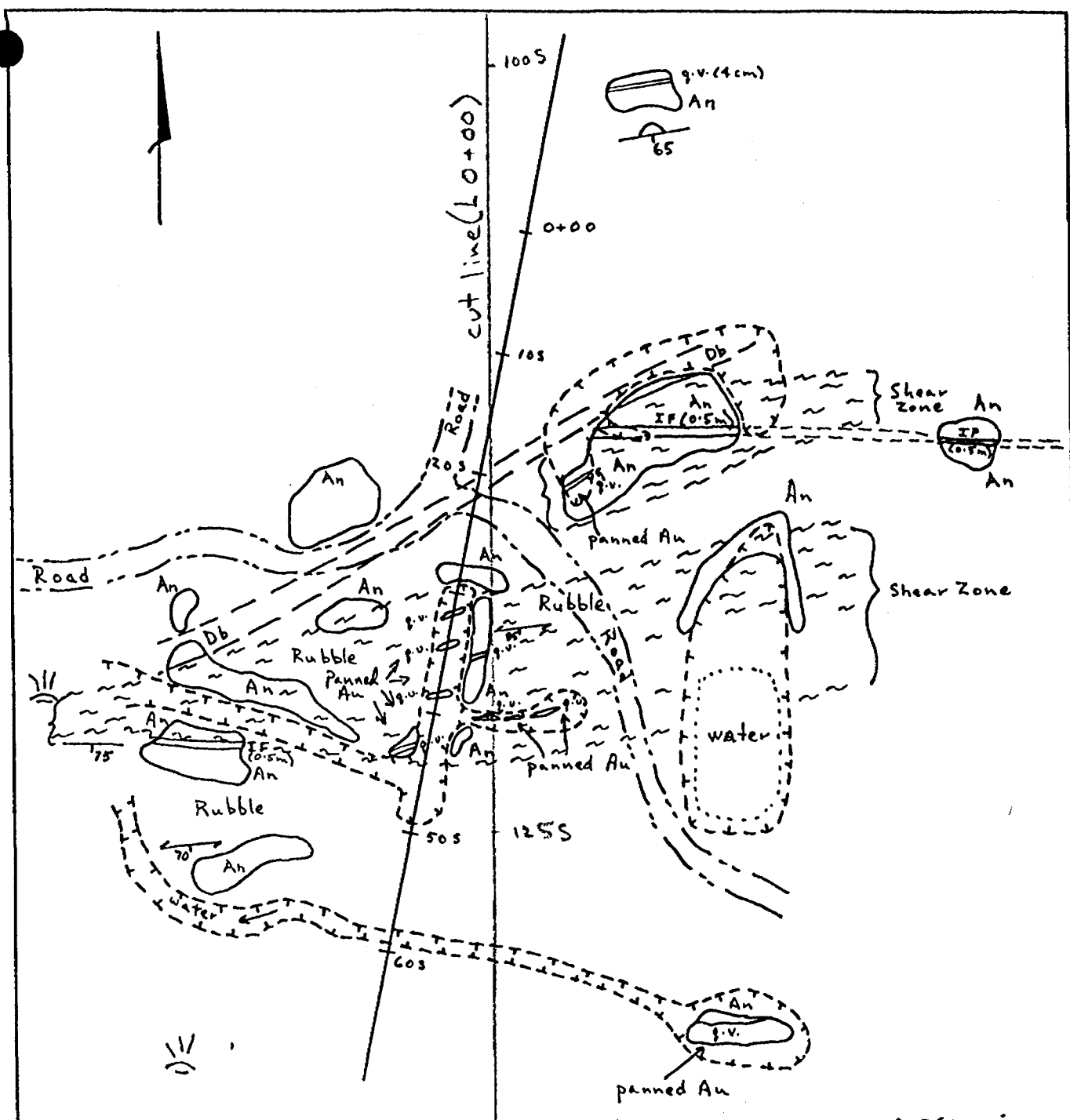
In many places the iron formations of unit 2 seemed to grade along strike or up and down into more felsic, sericitic sedimentary rock (unit 3) which thus can form an envelope around the unit 2 rocks. This is particularly noticeable around 250S, Line 0+00.

One very small, fine grained diabase unit occurs on the northwest side of the main showing, striking about 060° but it

was not encountered in the December 1982 drill holes and so is of obviously limited extent. It is uncertain whether this would be a Keeweenawan age dyke or a feeder to a Logan sill.

STRUCTURAL GEOLOGY

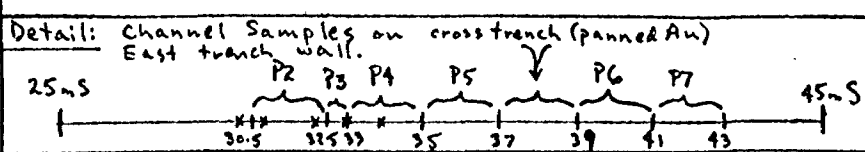
Strikes of the bedding and schistosity are quite uniformly between 075° and 090° on this property which is typical of the whole belt as well. Dips are steep to the south with pillows indicating tops to the north. The sequence is thus overturned. Apart from the so-called shear zone at the main showing, no great amount of shearings or bedding parallel faulting was observed. The presence of en echelon lenses of relatively thick quartz veins at the main showing may indicate disruption and rotation due to extreme shearing. Regionally, linear features tend to plunge shallowly to the west but that could not be determined on this property. No folding was observed, although this could be in part due to a general lack of laminated rocks with suitable markers.



Note: Au can be panned also in main trench between 30m S and 45m S from highly sheared and gravelly material in walls and floor.

- (---) - Trench
- P3 - Sample Location
- {---} - Shear Zone

- GRAB SAMPLES:
- P8 - shear at 34m (wall)
 - P9 - shear at 33m
 - P10 - shear at 32m
 - P11 - shear at 30m
 - P12 - shear at 34m (both)
 - P13 - silicified zone at 34m
 - P14 - g.v. + Py, Cp at 34m
 - P15 - chloritic g.v. at 31m



AMAX EXPLORATION INC.		
TYPE OF SURVEY: PROPERTY EXAMIN		
AREA: VINCENT TP. (SW NEZAH L.)		
LOCATION: GORD PICHETTE		
DRAWN BY: DHW	SCALE: 1:500	DATE: 27/9/82
TRACED BY:	MAP NO:	REVISED:
	NTS. REF: 42E/12	
TO ACCOMPANY: PROP. EXAM. REPORT		
BY: DHW	DATE:	

FIGURE 3

ECONOMIC GEOLOGY

Gold was encountered at two locations on the property. The main showing, examination of which resulted in optioning of the ground by Amax Minerals Exploration (now Canamax Resources Inc.) is that described in OGS assessment file report 63.3860, "Morrison-Smith Claims". It is impossible to see details discussed therein by Hamilton due to extensive stripping and trenching by the present owner which has resulted in a lot of material being moved around the area. The second showing occurs west of 250S on Line 0+00 and consists of quartz veins within iron formation. The quartz veins carry well developed needles of arsenopyrite and tourmaline and gave Au assays in the 0.1 to 0.5 ppm range. There is both a mag and VLF expression of this unit at surface extending west to line 125W. Subsequent drilling showed that more than one iron formation is present, that both iron formation and quartz veins contain arsenopyrite that the veins dip out of the iron formation, that neither carries significant gold values and that neither thickens down dip.

The main showing as shown in Figure 4 is a shear zone striking roughly east-west. At surface it is so weathered that it can be scooped out of the trench walls with a bare hand.

On panning this flaky, deeply weathered material, parts of the trench system give good gold colours of an extremely fine, very pale gold. Seiving the material to -10 and +10 mesh fractions gives assays in a ratio of about 3:1 in fine material vs coarse. Small rusty patches in the rotten rock give the best colours on panning.

A panned concentrate was made from 16 pans of coarsely screened material and submitted for heavy mineral separation. The 5.15 grams of concentrate gave a total of 58 milligrams of gold in partly crystalline grains. It is possible that some gold contained in the pyrite fraction was lost during magnetic separation as well.

Drilling beneath the main trenches in 1982 showed no visible gold but did show some gold values associated with heavy to massive pyrrhotite mineralization in one hole only. The iron formations did not carry significant gold. The rock in the "shear zone" appears in core as an angular breccia of small, platy volcanic fragments cemented with calcite.

Based on the above observations, it appears that the surface gold showings are basically a residual deposit after leaching of the sulphides and the calcareous host rock.

The crystal faces may suggest further chemical concentration in special conditions of pH and eH due to the leaching of the sulphides and calcite. Similar mineralization was neither found along strike from, nor beneath, the showing.

RECOMMENDATION:

The two areas of gold mineralization observed during this survey have now (October, 1983) been drilled satisfactorily with negative results. No further work would seem appropriate at this time.

APPENDIX I

SCHEDULE OF CLAIMS

Our Project: 54019-01

Vincent Township

TB 519316

TB 519428

TB 534700

TB 534701

TB 535205

TB 614162

Total - 6 Claims



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
 TELEPHONE: (705) 642-3244
 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 54031 Date: October 13, 1982
 Received Sept. 28, 1982 15 Samples of Chips/Ore
 Submitted by Amax Minerals Exploration, Toronto, Ontario Attn: Mr. D. Waddington
Project # 54017

SAMPLE NO.	GOLD PPM	SILVER PPM	SAMPLE NO.	GOLD PPM	SILVER PPM
P-1	0.03	0.2	P-12"A"	3.43	1.7
P-2	1.74	1.2		3.76	
P-3	0.08	0.4		5.83	
P-4	3.98	0.8	P-12"B"	1.21	0.6
	2.72			1.85	
	3.64		P-13	5.90	1.6
P-5	0.40	0.6		4.21	
P-6	1.21	0.9		6.86	
P-7	1.94	0.8	P-14	1.30	1.2
P-8	7.20	1.9	P-15	1.60	1.1
	4.48				
	6.17				
P-9	1.47	0.7			
P-10	1.61	1.2			
P-11"A"	20.44	4.9			
	18.17				
P-11"B"	7.55	3.7			
	9.81				

"A" is fine fraction

"B" is coarse fraction

Per

G. Lebel - Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 54127 Date: October 19, 1982
Received 2 Samples of Pulp prepared from stored reject
Submitted by Amax Minerals Exploration, Toronto, Ontario Attn: Mr. D. Waddington
Project # 54017

SAMPLE NO.	GOLD PPM
P-11"C"	17.35
P-11"D"	7.27
P-12"C"	4.25
P-12"D"	2.19

"C" is fine fraction

"D" is coarse fraction

*new samples from fine and coarse rejects of
samples P 11/12 (A and B) for comparison.*

Per

G. Lebel
G. Lebel - Manager

ESTABLISHED 1928



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 54031 - A Date: October 21, 1982
Received Sept. 28, 1982 15 Samples of Chips/Ore
Submitted by Amax Minerals Exploration, Toronto, Ontario Attn: Mr. D. Waddington
Project # 54017

SAMPLE NO.	ARSENIC PPM
P-1	9
-2	38
-3	34
-4	850
-5	225
-6	1110
-7	920
-8	178
-9	250
-10	183
-11	236
-12	417
-13	12
-14	21
-15	14

Per

G. Lebel - Manager

ESTABLISHED 1928



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

RECEIVED
OCT 21 1982
AmexX
TORONTO

Certificate of Analysis

Certificate No. 54031 - B

Date: October 18, 1982

Received Sept. 28, 1982 3 Samples of Sample Bags (empty)

Submitted by Amex Minerals Exploration, Toronto, Ontario Attn: Mr. D. Waddington
Project # 54017

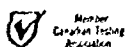
Sample bags approximate weight (9.2g) ashed and analysed for total gold content.

SAMPLE NO.	GOLD Milligrams
P-1	0.0003
P-2	0.002
P-11	0.19

The amount of gold found in Bag # 11 when calculated on the basis of a 5 lb. sample would cause a correction of 0.08 PPM to be added to the assay result. Since some gold would come from bits of samples adhering to the bag, the 0.19 mg. found would not seem significant.

Per *G. Lebel*
G. Lebel - Manager

ESTABLISHED 1928



Sample	Description	Au ppm	Ag ppm	As ppm
P1	Deeply weathered IF (1.5m chip)			
P2	Shear zone material (2m)			
P3	Slightly sheared andesite (0.5m)			
P4	Shear zone material (2m)			
P5	Shear zone material (2m)			
P6	Shear zone material (2m)			
P7	Shear zone material and till (2m)			
P8	Shear zone - top of trench wall			
P9	Shear zone - middle of trench wall			
P10	Shear zone - bottom of trench wall			
P11	Shear zone - bottom of trench - fine fraction - coarse fraction			
P12	Shear zone - bottom of trench - fine fraction - coarse fraction			
P13	Silicified material beside quartz vein in shear zone			
P14	Quartz vein material with heavy Py, Cp, Chlorite			
P15	Quartz vein with green chlorite			

Note: Samples P2 through P5 are one continuous sample separated from P6 and P7, which are also continuous, by an unsampled interval of 2m which is occupied by a trench in which quartz was found and traces of Au can be panned.



Feb. 24/84

Mining Lands Comments

L.D.

To: Geophysics

Comments

Approved Wish to see again with corrections

Date Signature

To: Geology - Expenditures *Mr. Kustra.*

Comments

Approved Wish to see again with corrections

Date *March 15/84* Signature *C Kustra*

To: Geochemistry

Comments

L.D.

Approved Wish to see again with corrections

Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

Assessor

Approved Reports of Work
sent out

Notice of Intent filed

Approval after Notice of Intent
sent out

Duplicate sent to Resident
Geologist

Duplicate sent to A.F.R.O.

P.K.

482

2.6002

1983 11 15

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

We have received reports and maps for a Geological survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims TB 519316 et al in the Township of Vincent.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: Gordon J. Pichette
P.O. Box 971
Nipigon, Ontario
P0T 2J0

cc: D.H. Waddington
Suite 1100
181 University Avenue
Toronto, Ontario
M5H 3M7

*Copy to Mr. Pichette
2/2/84 11:00 AM*



Ministry of Natural Resources

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

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 Vincent Township
Claim Holder(s) Gordon J. Pichette

Survey Company _____
Author of Report D. H. Waddington
Address of Author 1100 - 181 University Ave., Toronto
Covering Dates of Survey June 13 - June 29, 1983
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
TB	519316
TB	519428
TB	534700
TB	534701
TB	535205
TB	614162

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical _____
 --Electromagnetic _____
 --Magnetometer _____
 --Radiometric _____
 --Other _____
 Geological 20
 Geochemical _____

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Oct. 17/83 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

RECEIVED
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MINING LANDS SEC.

TOTAL CLAIMS 6

If space insufficient, attach list

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 _____

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 _____



CANAMAX RESOURCES INC.

TORONTO, ONTARIO
181 UNIVERSITY AVE.
SUITE 1100
M5H 3M7
TELEPHONE 416-364-6188

November 7, 1983

Mr. F. W. Matthews,
Ontario Ministry of Natural Resources,
Room 6450 - Whitney Block,
Queen's Park,
Toronto, Ontario
M7A 1W3

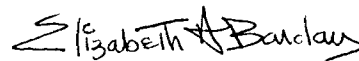
Dear Sir:

Re: Geological Survey - Mining Claims TB 519316,
TB 519428, TB 534700, TB 534701, TB 535205
& TB 614162, Vincent Township
Our Project 54019-01

Enclosed are two copies of a Report and Plans in the above connection.
A Report of Work was filed with the Mining Recorder in Thunder Bay
on October 17, 1983.

Thank you.

Yours truly,


Elizabeth A. Barclay

E.
encl.

cc: K. R. Clemiss
cc: D. H. Waddington
cc: F. F. Pichette

RECEIVED
NOV 9 1983
MINING LANDS SECTION

NOTES

WALTERS TWP G-171

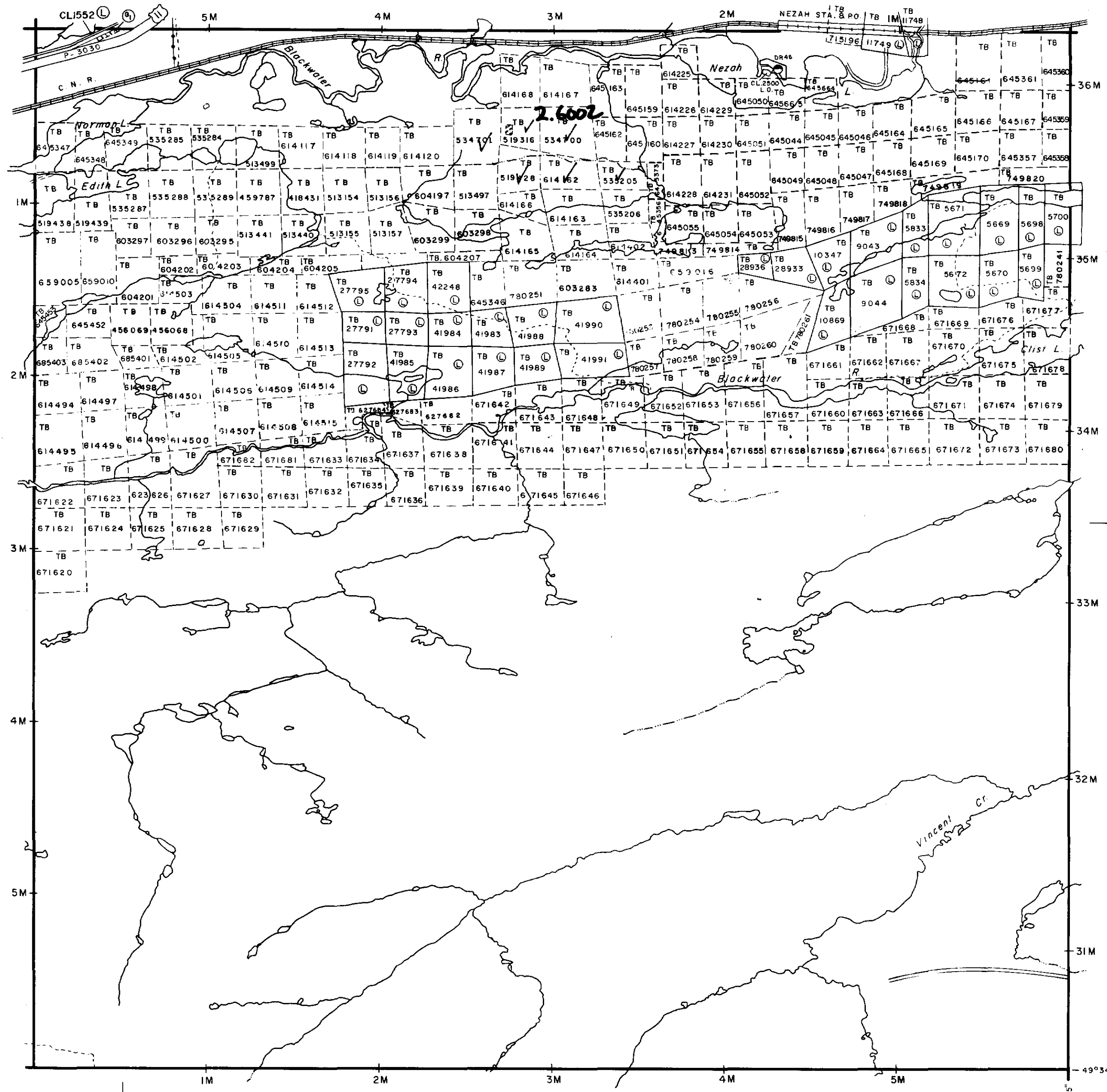
McCOMBER TWP G-166

BEARDMORE
G-7

LEOPARD LAKE G-68

CLIST LAKE G-24

LEOPARD LAKE G-68



TOWNSHIP

VINCENT

M.N.R. ADMINISTRATIVE DISTRICT

NIPIGON

MINING DIVISION

THUNDER BAY

LAND TITLES REGISTRY DIVISION

THUNDER BAY

SAND AND GRAVEL

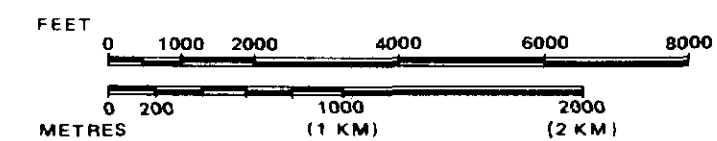
- Ⓜ GRAVEL FILE: 131085
- Ⓠ QUARRY PERMIT

LEGEND

- PATENTED LAND (P or ●)
- PATENTED FOR SURFACE RIGHTS ONLY (L)
- LEASE (L.O.)
- LICENSE OF OCCUPATION (C.S.)
- CROWN LAND SALES (Loc.)
- LOCATED LAND (C.)
- CANCELLED (M.R.O.)
- MINING RIGHTS ONLY (S.R.O.)
- SURFACE RIGHTS ONLY
- HIGHWAY & ROUTE NO. (17)
- ROADS
- TRAILS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

*used only with summer resort locations or when space is limited

SCALE: 1 INCH = 40 CHAINS



Ministry of Natural Resources
Land Management Branch
Ontario

Date FEBRUARY 16th, 1981

Number

G-163



42E12NE0195 2.6002 VINCENT

200

Canamax Resources Inc.
Vincent Twp, Ontario.

PICHETTE OPTION

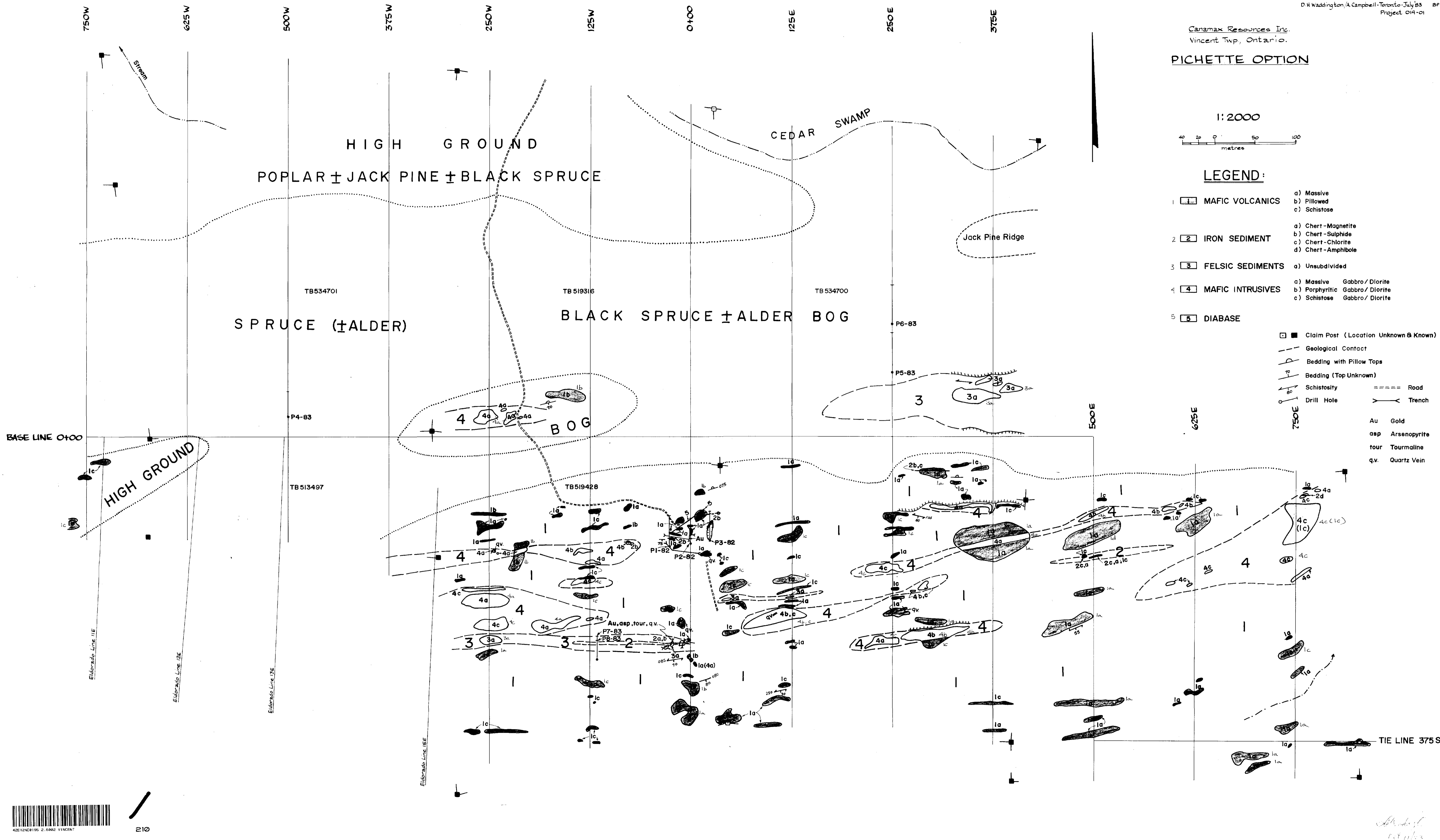
1:2000



LEGEND:

- 1 **MAFIC VOLCANICS**
 - a) Massive
 - b) Pillowed
 - c) Schistose
- 2 **IRON SEDIMENT**
 - a) Chert - Magnetite
 - b) Chert - Sulphide
 - c) Chert - Chlorite
 - d) Chert - Amphibole
- 3 **FELSIC SEDIMENTS**
 - a) Unsubdivided
- 4 **MAFIC INTRUSIVES**
 - a) Massive Gabbro/Diorite
 - b) Porphyritic Gabbro/Diorite
 - c) Schistose Gabbro/Diorite
- 5 **DIABASE**

- Claim Post (Location Unknown & Known)
- Geological Contact
- Bedding with Pillow Tops
- Bedding (Top Unknown)
- Schistosity
- Drill Hole
- Road
- Trench
- Au Gold
- asp Arsenopyrite
- tour Tourmaline
- q.v. Quartz Vein



Handwritten signature/initials