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MATCH CAPITAL RESOURCES LIMITED

REPORT ON WORK PROGRAM

DECEMBER 27/89

I. C. CHRISTOPHER, B.Sc.P.Eng.

NTRODUCTION:

Match Capital Resources Limited hold a group of 19 claims in the south eastern corner of Baden Township in the district of Timiskaming Province of Ontario

The property consists of the following claims.

1050041	1050047	(7)
760125	760129	(5)
737106	737107	(2)
737112	737113	(2)
1046233	1046234 1046235	(3)

Total 19

A work program was carried out over the property during 1989. The work consisted of line cutting, magnetic and electro magnetic surveying. Later in March 1989 an induced polarization survey was carried out over the property.

The results of the work and the recommendations are presented in a report by G. P. Thoday, P.Eng. dated May 18, 1989.

A copy of the results of the Geophysical work and the conclusions and recommendations contained in the report of G. P. Thoday, P.Eng are attached as an addendum to this report.

In September 1989 a work program was initiated to carry out the recommendations contained in the Thoday report.

WORK CARRIED OUT TO DATE:

A program of stripping and trenching was carried out over the showing area and stripping was attempted on several of the anomalies. Geophysical mapping is still being completed over the area. Several samples were taken for assay.

A diamond drill was moved on to the property early in October of this year.

Six holes have been drilled totalling 3300 feet. The drilling was carried out to test geophysical indications. The drilling has encountered shearing and mineralization consisting of disseminated pyrite in the holes but no commercial values have been obtained to date.

Logs of the holes are enclosed with this report.

Respectfully submitted,

Ivan C. Christopher B.Sc.P.Eng

<u>CERTIFICATE</u>

- I, Ivan C. Christopher, of the City of Toronto, in the Province of Ontario, do hereby certify that:
 - I am a consulting mining geologist with business address at 330 Bay Street, Ste 1503. Toronto, Ontario.
 - 1 am a graduate of the University of Saskatchewan and have been practicing my profession since 1938.
 - 3. I am a member of the Society of Professional Engineers of Quebec and a member of the Canadian Institute of Mining and Metallurgy.
 - 4. I have no interest either directly or indirectly, nor do I anticipate any interest either directly or indirectly in Match Capital Resources Limited.
 - 5. My report is based on a general knowledge of the area and several visits to the property, and, in supervision of the work program

Dec. 28/89.

I. C. Christopher, B.Sc., P.Eng.

APPENDIX "A"

"From report by G. P. Thoday, P.Eng. Match Captial Resources Limited on the Baden Township property" dated April 27/89.

CONCLUSIONS & RECOMMENDATIONS:

Several gold showings have been found in Baden Township indicating that this is a favourable area for exploration. A gold showing is located on the Baden Property which has been traced for over 100 meters and is about 0.6 meters wide. It is open as the extension of the zone is covered by overburgen.

Several geophysical anomalies have been located on the Baden Property. An electromagnetic survey on the Property located 5 conductors and an Induced Polarization survey over the Property located 5 clear anomalies. Diamond drilling has been recommended to test these indications.

Some of the induced polarization anomalies occur in the area where electromagnetic anomalies were obtained. Some of the drilling will check both induced polarization and electromagnetic anomalies for the same hole.

In view of this gold mineralization occurring on the Property and the geophysical indications it is believed that the Property warrants further investigation.

It is recommended that a program of diamond drilling be undertaken to test the extension of the gold bearing zone and the geophysical anomalies. Additional stripping is also recommended to attempt to extend the zone or locate it along the strike.

MATCH CAPITAL RESOURCES LIMITED

BADEN PROPERTY

HOLE	8	9-	1
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Location Line 500E at 250 M South Drilled South at 45 degrees.

0 - 298

Volcanic dark green fine grained calc-alkaline rocks with patchy alteration and local narrow seams of pyrite and blebs of chalcopyrite.

298 - 469

Cherty Sedimentary - dense fine grained breccia with scattered pyrite, pyrrhotite and quartz veins and sericitic alteration.

469 - 500

Volcanic patches of pyrrhotite and scattered chalcopyrite.

500 end of hole

MATCH CAPITAL RESOURCES LIMITED

BADEN PROPERTY

HOLE 89-2

Location Line 700E

200 M North

of South B.L.

0-10 Overburden

Drilled South at 45

10-416.6 Volcanic Medium Grained

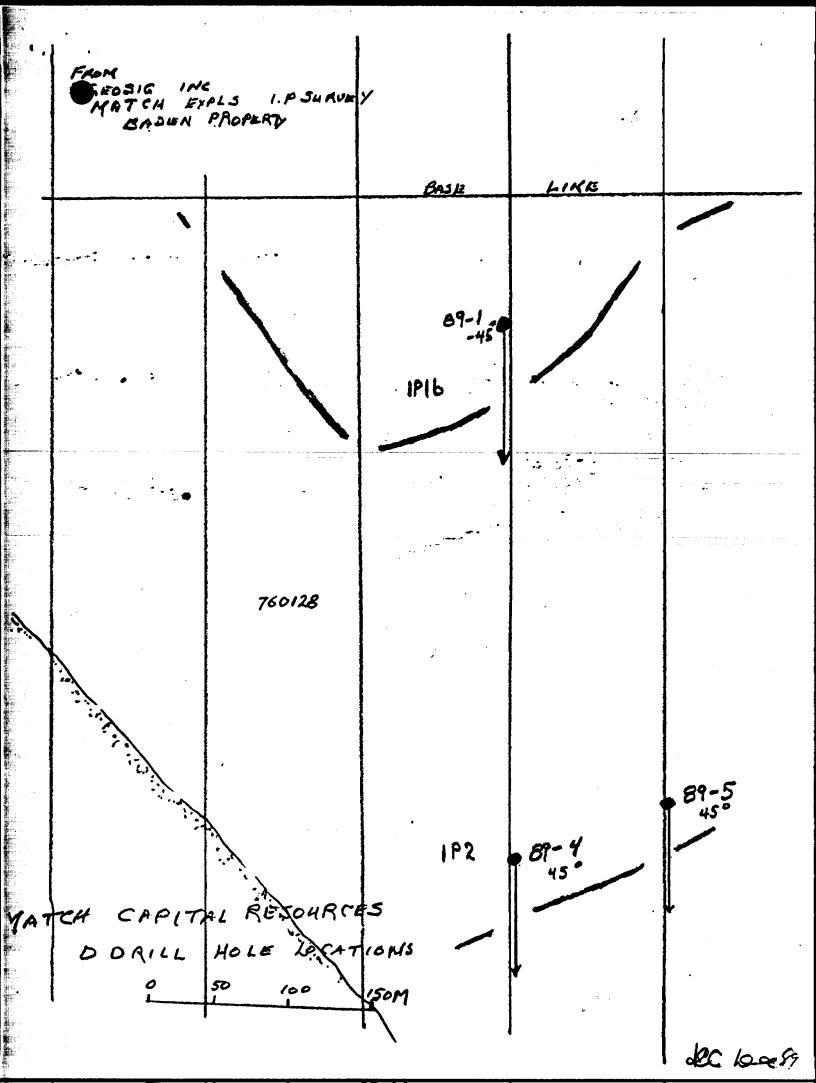
416.6 - 530 Dark Grey Graphitic

Chert Fine Disseminated Pyrite with Epidote and fine quartz stringers.

530 - 568 Medium grey argillite occasional patchy and disseminated pyrite.

568-600 Medium grey basalt hornblende phenocrysts
568 - 571.7 patchy and disseminated pyrite

600 end of hole.



737106

MATCH CAPITAL RESOURCES

D.DRILL HOLE LOCATIONS

2 50 100 1504

ROM: GEOSIG INC MATEN EXPLORATIONS I.A SURVEY BROCK PROPERTY.

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LINE BASE

MATCH CAPITAL RESOURCES

DIRILL HOLE LOCATIONS

0 50 100 150 M

oler. be 89

ROM! GEOSIG INC. MATCH EXPLS. I.P.SURVEY BAUEN PROPERTY



A REPORT

ON THE PROPERTY OF

MATCH EXPLORATIONS LTD.

BADEN TWP.

ONTARIO

April 27, 1989.

G. P. THODAY P.Eng.

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SUMMARY:

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Match Explorations Limited hold a group of 19 claims in the Southeastern corner of Baden township in the district of Timiskaming Province of Ontario.

Gold was first discovered on the property in 1936 by G. L. Hol-brooke Exploration. Work has been carried out spasmodically on the property now held by Match Explorations Limited since that time to the present.

Recent work gave encouraging gold values on the main showing. The gold bearing zone has been traced for over 100 meters. Widths are in the order of 0.6 meters. Overburden coverage prevents tracing the vein farther along the strike.

A magnetometer survey and VLF electromagnetic was carried out over the property and outlined several anomalous zones. Three short holes were put down in 1985 to check one anomaly

The three holes were not drilled deep enough to test the anomaly, the deepest went to 125.

During the past month a work program consisting of trenching, sampling and assaying was carried out. A line cutting program and additional magnetic and electromagnetic were completed over the whole project and an I.P survey is being completed.

INTRODUCTION:

Match Explorations Limited has acquired an option to acquire 19 claims located in the southeastern corner of Baden township.

The property is located on the east side of the Montreal River bordering on the south boundary of Baden township in the Larder Lake Mining Division of Ontario.

The property is about 10 miles north west of the town of Matachewan. Matachewan may be reached from highway 11 by the paved road that runs from Kirkland Lake to Elk Lake. A road has been built from Matachwan to the property allowing access by truck or jeep.

The Property consists of the following claims:

1050041,	-	1050047	(7)
760125,	-	760129	(5)
737106,	73107 -	737112 -	737113(4)
1046233	1046234	1046235	(3)
			19

BADEN TOWNSHIP:

There have been several gold discoveries in Baden Township which are documented in the records of the Ontario Department of Mines.

Baden Gold Mines is located in the north western part of the township. A considerable amount of work has been carried out on the property including diamond drilling and the sinking of a shallow shaft.

Richore Gold property to the north of Baden gold mines located a shear zone cutting volcanic rocks and granite containing pyrite mineralization and selected samples gave gold values.

A sample taken by the Ontario Department of Mines geologist from the McVittie property located in the central part of the township gave an assay of 0.14 ounces of gold.

The Hines property to the west of the McVittie property also located gold values.

HISTORY OF THE PROPERTY:

A gold showing on the property was first discovered in 1936 by G. L. Holbrooke. Assay results are reported to have returned values of from .01 to .46 ozs. of gold per ton.

Sampling was carried out on this discovery by Keernicki and O'Bradovitch and returned values up to 0.44 oz. gold in 1984 over 2.5 feet.

Geophysical work consisting of Magnetic and electromagnetic surveying was carried out over part of the property during 1984. They located several anomalies.

Three short drill holes were put down to test an electromagnetic anomaly in 1985. These holes were short holes drilled mainly for assessment work. The holes did not go deep enough to test the geophysical anomaly. Hole #1 was drilled to a depth of 110' the second hole to a depth of 112' and hole #3 to a depth of 125'.

Recent work has consisted of cutting grid of picket lines over the whole property and carrying out an electromagnetic and magnetic survey over the property which permits relating the known anomalies to the present grid also some additional trenching and sampling was carried out.

GENERAL GEOLOGY:

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The area forms a small part of a large belt of "greenstone" extending from southwest of Timmins Ontario to Chibougamau Quebec. The general geology of part of the belt in Ontario is shown on the compilation map, Timmins - Kirkland Lake sheet (Map 2046) of the Ontario Department of Mines and on Map 2109 Baden and Alma townships Timiskaming District of the Ontario Department of Mines. The rocks are of Precabian age and consist of volcanic and sedimentay rocks. Both are cut by Mafic and Silicic in intrusions.

The property is underlain by basalt and andesite. Younger diabase dykes cut the formations. A major trending fault called the Montreal River Whitney Lake Creek fault runs along the western boundary of the property.

LOCAL GEOLOGY:

The predominent rocks underlying the property consist of sheared carbonatized greenstone including andesite tuff agglomerate and basalt. The general strike of the schistosity is north easterly.

A granite intrusive occurs on the south boundry of the property.

A gold showing occurs on the northern part of the property. This was found in 1936.

Recent work on the property has traced the zone for 100 meters and is open on the strike but is covered with overburden.

Widths appear to be in the order of 0.60 meters. The showing occurs just north of an east west trending V.L.F. conductor.

The showing is contained within a band of felsic volcanics and the gold bearing horizon itself is a coarse fragmented rock with a siliceous chloritic matrix. The fragments and the matrix contain very fine grained uniformly disseminated pyrite as well as some blebs and fracture coatings of coarser grained pyrite.

The occurence appears stratabound and as such is interesting since geologically it permits the possibility of extending the zone on the same horizon as well as permitting the repetition of similar zones.

References to government maps.

Map 2109 Baden and Alma Townships
Ontario Department of Mines

Map 2046 Timmins-Kirkland Lake Sheet Ontario Department of Mines

RESULTS OF GEOPHYSICAL

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A ground electromagnetic and magnetic survey has been carried out over the property during February and March of this year to confirm and locate previous results carried out in 1984 and to locate a grid to establish the location of the anomalies.

The ground magnetometer survey was completed utilizing a proton magnetomer capable of reading total field values to an accuracy of plus 10 gammas. All readings were tied to a base station to correct for diurnal variations.

No major magnetic zones were outlined on the property. AAn interesting magnetic zone occurs on line 8E and 9E at 200 meters north. Several other magnetic zones were located.

An electromagnetic survey was carried out over the property using a VLF-EM l6 unit manufactured by Geonics Ltd.

One east west anomaly occurs on the northern part of the property and extends from chainage 100 meters north on line 0 to 450 meters north on line 13E. This anomaly reflects a structural trend and may represent shearing. It is shown on the map as Aanomaly "A".

Anomaly "B" extends from 50 meters north on line 8E south easterly to 50 meters south easterly to 50 meters south on line 12 E.

Anomaly "C" occurs at chainage 150 meters south on line 4E. This is a small anomaly and is considered interesting and should be drilled.

Anomaly "D" occurs on line 4E at chainage 400 south and extends to line 6E at chainage 425 south. This anomaly is a local structure and probably represents shearing. It should be tested by diamond drilling.

Anomaly "E" occurs on line 11E at 650 south and trends north easterly to line 12E at chainage 600 south. This anomaly should also be tested by diamond drilling.

DISCUSSION OF INDUCED POLARIZATION SURVEY

GEOSIG INC. carried out an Induced Polarization Survey in March 1989 on the Baden township property of Match Explorations Limited.

An I.P. survey is carried out to detect conductive and or polorizable materials such as sulphides or graphite. The survey technique consists of measuring the chargeability M. and the apparent resistivity R. along the grid lines.

The results of the work has been plotted on the accompanying maps.

The I.P. survey identified five clear anomalies. Diamond drilling has been recommended to test these five anomalies.

A brief summary of the proposed drilling is discussed in the following paragraphs.

ANOMALY I.P. #1

The drill hole under line 4E referred to in the Gaucher report did not go deep enough to cover the recommended target in the Gaucher report. The holes recommended as a result of the VLF - EM survey holes #2 and 3 should suffice to check the I.P. anomaly as well as the E.M. indicater. The drill hole recommended to check the I.P. indication under line 3E at 355 and 755 should be covered by hole #1 as shown on the Map #4.

ANOMALY I.P. #2

The hole recommended by the I.P. survey should be drilled under line 5E at 450 south. A hole has alread been spotted at -45 degrees under line 5E to be collared at chainage 325 south to be drilled south. This hole should be drilled deep enough to reach chainage 450 south and check the I.P. anomaly

The balance of the diamond drill holes recommended in the Gaucher report will be considered based on results of the diamond drilling program.

The first drilling program will test I.P. anomalies #1 & #2 as well as electromagnetic anomalies C and D.

Further diamond drilling will be undertaken based on the results of this work and on the results of geological investigation of the anomalous areas.

CONCLUSIONS AND RECOMMENDATIONS:

Match Explorations Limited has acquired an option on a group of 19 claims located in the southeastern part of Baden township.

Several gold showings have been found in Baden township indicating that this is a favorable area for exploration.

A gold showing is located on the Match Explorations property. The zone has been traced for over 100 meters and is about 0.6 meters wide. It is open as the extension of the zone is covered by overburden.

Several geophysical anomalies have been located on the property.

An electromagnetic survey on this property located 5 conductors and an I.P. Survey over the property located 5 clear anomalies and diamond drilling has been recommended to test these indications.

Some of the I.P. anomalies occur in the area where electro magnetic anomalies were obtained. Some of the drilling will check both I.P. and E.M. anomalies for the same hole.

In view of this gold mineralization occurring on the property and the geophysical indications it is felt that the property warrants further investigation.

It is recommended that a program of exploration be carried out on the property to test the extension of the gold bearing zone and the geophysical anomalies.

The estimated cost of the program is set out below:

Geological mapping	\$ 10,000.00
4600 feet of diamond drilling	\$115,000.00
Trenching, sampling	\$ 12,500.00
Allowance for transportation	\$ 10,000.00
Supervision engineering assaying & travel	\$ 25,000.00
Suitable core boxes & storage	\$ 5,000.00
PHASE 2	
Depending on the results of phase 1	

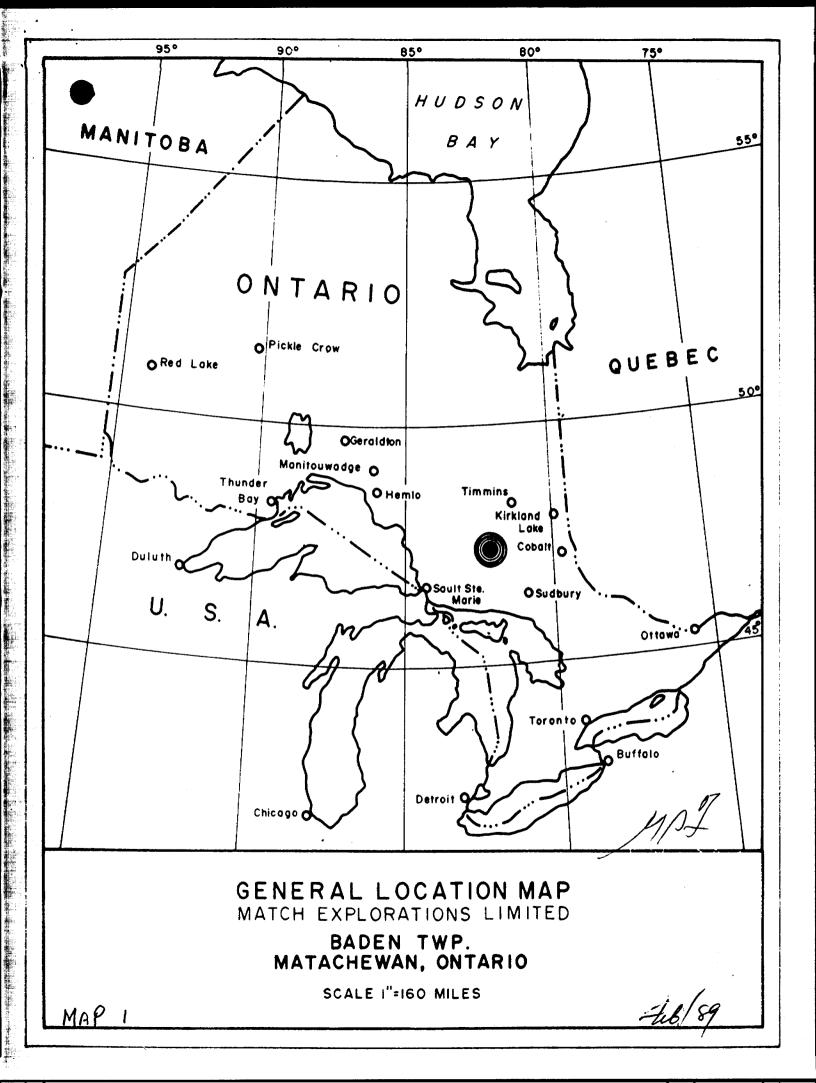
Depending on the results of phase 1
additional 5000' x \$25.00 \$125,000.00
TOTAL \$302,500.00

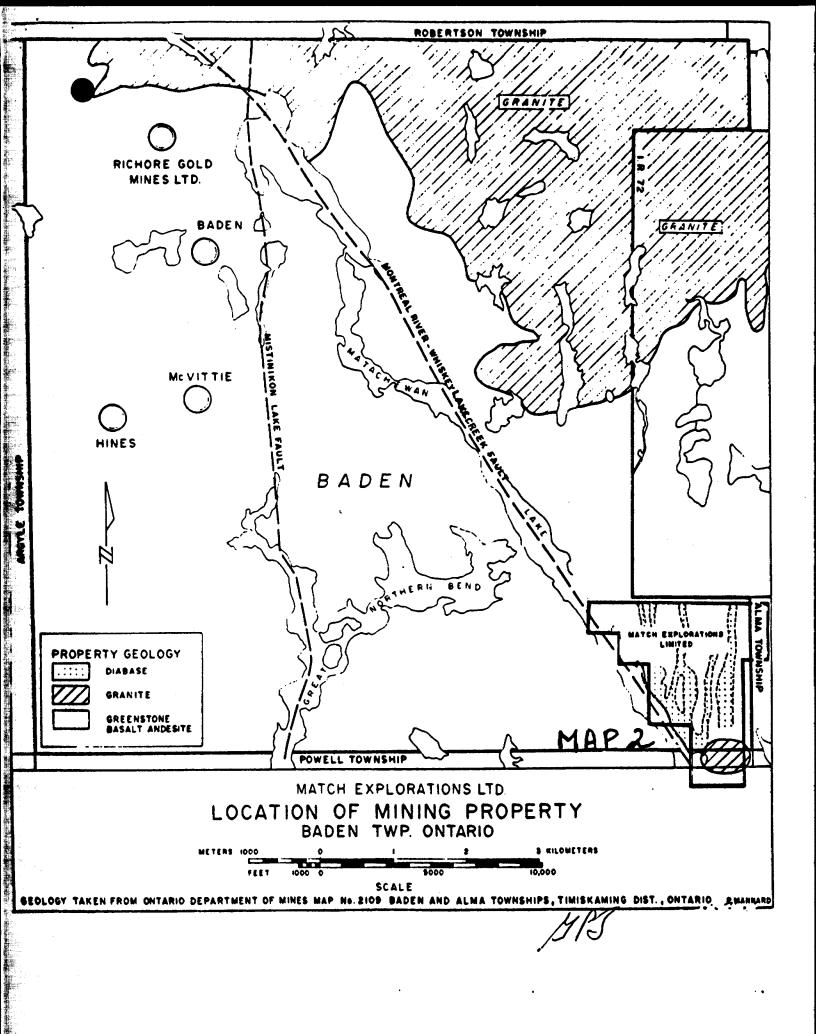
MATCH EXPLORATIONS LIMITED BADEN TOWNSHIP PROPERTY BADEN TOWNSHIP ONTARIO

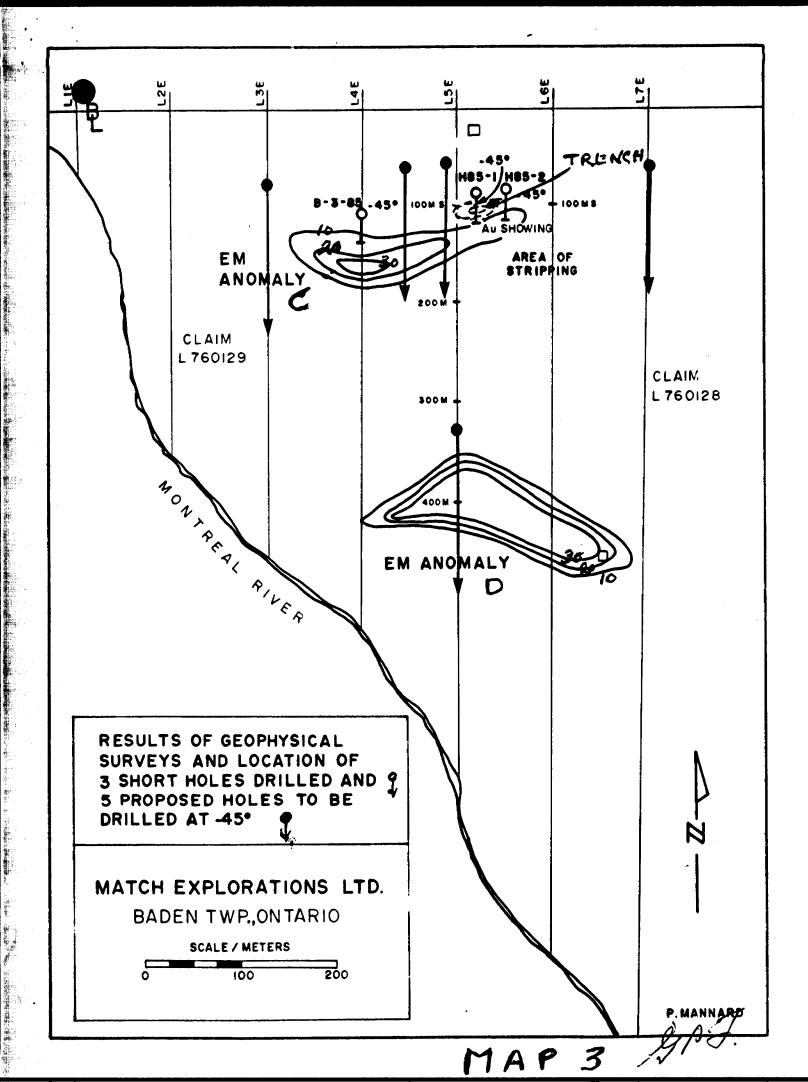
REFERENCES:

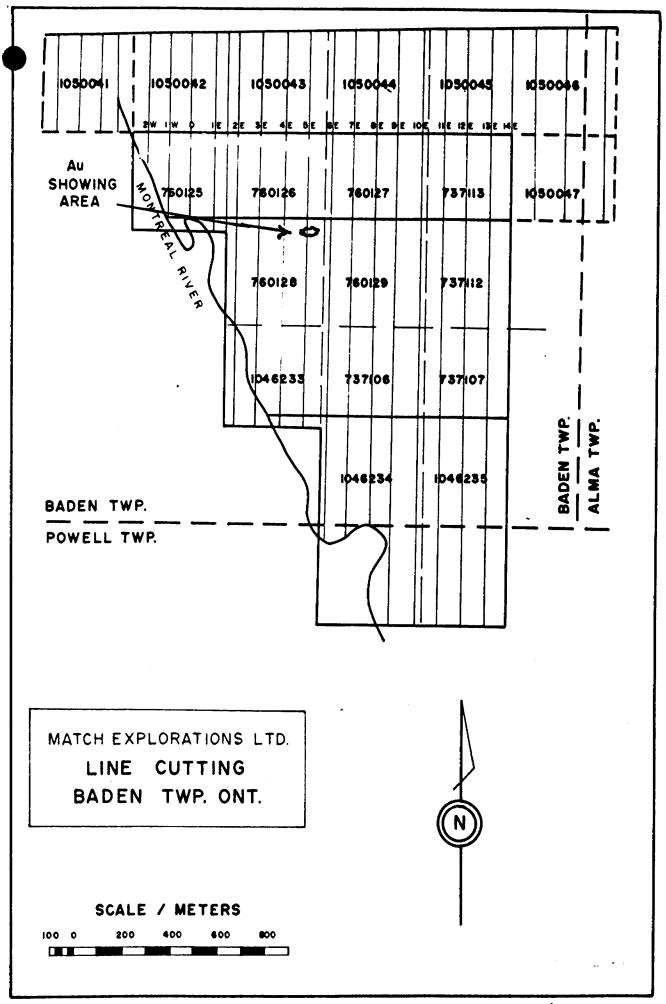
- Ontario Department of Mines
 Geological report 51
 Geology of the Matachewan Area by H. L. Lovell 1967
- Ontario Department of Mines
 Map 2046
 Timmins Kirkland Lake Sheet
- Ontario Department of Mines
 Map 2109
 Baden and Alma Townships
- Information from T. O. Bradovitch, Prospector
- Geosig Inc.

 Match Explorations Limited
 Induced Polarization Survey
 On the Baden Property
 Baden Township, Ontario.

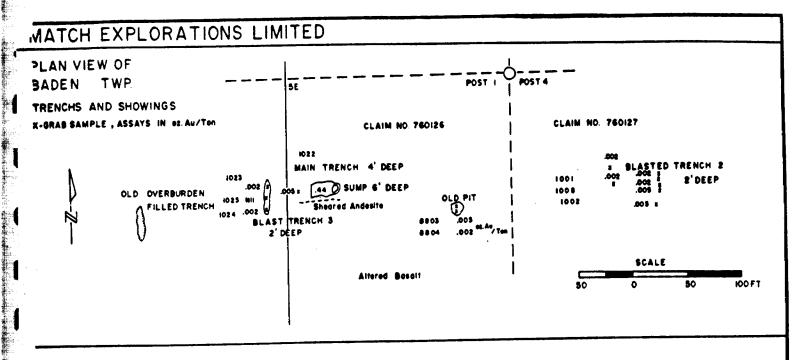






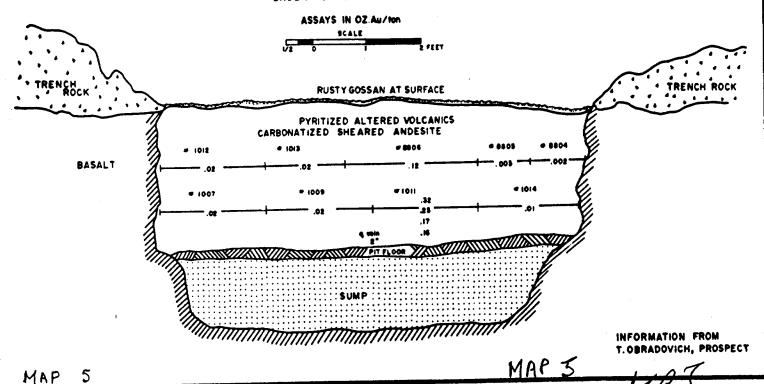


MAP 4



SECTION SHOWING CHIP CHANNEL SAMPLES FROM MAIN TRENCH LOOKING WEST

BADEN TOWNSHIP PROPERTY



CERTIFICATE

- I, G. P. Thoday, of the Town of Haileybury, in the Province of Ontario, do hereby certify that:
- I am a professional engineer in mining with business address
 Haileybury, Ontario.
- 2. I attended the University of Saskatchewan and have been practising my profession since 1942.
- 3. I am a member of the Association of Professional Engineers of Ontario, a member of the American Institute of Mining and Metallurgical Engineers and a member of the Canadian Institute of Mining and Metallury.
- 4. I have no interest either directly or indirectly nor do I anticipate any interest either directly or indirectly in the property or securities of Match Explorations Ltd.
- 5. My report is based upon geological information derived from various engineers' reports, and from supervision of a drilling program carried out on an adjoining property during 1964, and from a visit to the Property in September 1988, and government maps.

G. P. Thoday, P.Eng.

Haileybury, Ontario

THIS IS AN ADDENDUM TO

THE REPORT OF G. P. THODAY

OF APRIL 27/89

IN RESPONSE TO THE COMMENTS BY

THE ENGINEER OF THE O.S.C.

May 18th, 1989.

1) There are several gold showings in Baden Township.

There is a gold showing on Match Exploration property located in the south west corner of Baden Township.

Trenching and stripping on the showing has been carried out.

Three short drill holes were put down to test the gold showing in 1985. These holes did not get any commercial values but are believed not to have been drilled enough to hit the zone.

Recent work has outlined local E.M. anomalies.

An I.P. survey has outlined several I.P. anomalies some of which are coincidental with the E.M. surveys. These anomalies occur in the close vicinity of the showing area.

It is felt that these indications should be investigated by diamond drilling as recommended by the geophysical reports.

- The author made a trip to the property in September 1988. The author has done a considerable amount of work in Baden township, having looked after an exploration program on the Baden Explorations property located in the north west corner of Baden township. The author was able to drive to the property now held by Match Explorations which will be a great help for future work. The showing area needs to be cleaned out. The pits are caved and partially full of water, as observed by writer. The showing is in acidic volcanics and is a rusty zone of shearing which is sileceous and chloritized.
- A small amount of trenching consisting of cleaning out some of the trenches and some blasting was carried out to try and trace the structure. Gold panning was carried out which showed some colors in the area of the showing and some samples were taken which have yet to be assayed. Work on the property was in March and was hampered by the inclement weather. It was decided that it would be more efficient to wait for summer weather.
- (4) See enclosed map.

- (5) A chip sample across the showing assayed .44 oz. of gold across 2.5 feet.
- The zone was traced for 100 meters by stripping.

 The zone consists of sheared and chloritized acidic volcanics with quartz stringers and fine pyrite mineralization.

(7) The contour lines have been identified on Map 4.

(8) V.L.F. anomaly A is a weak slightly anomalous zone that extends east-westerly across the northern part of the property of about 1200 meters.

E.M. anomalies are usually conducting zones which may represent shear zones or graphitic schist. This anomaly is too weak in the writers opinion to represent a graphitic schist - so therefore it is probably a weak shear zone. The writer feels that such an extensive shear zone could be considered a structural feature.

(9) The main showing contains very fine grained and uniformly disseminated pyrite as well as some blebs and fracture coatings of coarser grained pyrite. Pyrite is about 10% of the material in places. It is believed that this mineralization could cause an E.M. anomaly.

The two E.M. anomalies C and D are very local indications and for this reason they are interesting. Ore bodies are usually of a local nature frequently no longer on strike then 1000 or 2000 feet. It is believed that these indications may be caused as concentration of mineralization.

Also, the fact that I.P. anomalies occur coincidental with V.L.F. anomaly C and also anomaly D.

- (10) The holes drilled in 1985 are shown on Map 4 as well as the main trench.
- (11) The I.P. survey report was incorporated with the submission.

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- (12) The Gaucher report is listed in the references as Geosig Inc. which is Gaucher's company, it has been submitted.
- (13) The reference to the Whisper Lake property is a error this has been corrected in the report.

- (7) The contour lines have been identified on Map 4.
- (8) V.L.F. anomaly A is a weak slightly anomalous zone that extends east-westerly across the northern part of the property of about 1200 meters.

E.M. anomalies are usually conducting zones which may represent shear zones or graphitic schist. This anomaly is too weak in the writers opinion to represent a graphitic schist - so therefore it is probably a weak shear zone. The writer feels that such an extensive shear zone could be considered a structural feature.

(9) The two E.M. anomalies C and D are very local indications and for this reason they are interesting. Ore bodies are usually of a local nature frequently no longer on strike then 1000 or 2000 feet.

It is believed that these indications may be caused as concentration of mineralization.

Also, the fact that I.P. anomalies occur coincidental with V.L.F. anomaly C and also anomaly D.

- (10) The holes drilled in 1985 are shown on Map 4 as well as the main trench.
- (11) The I.P. survey report was incorporated with the submission.
- The Gaucher report is listed in the references as Geosig Inc. which is Gaucher's company, it has been submitted.
- (13) The reference to the Whisper Lake property is a error this has been corrected in the report.

- The recommendation has now been corrected to include a geological mapping program.
- (15) The location of the gold showing has been shown on the magnetic and V.L.F. maps. The showing on Map 4 and Map 6 are in the same location.
- (16) O'Bradovitch's report is included.
- (17) The Montreal River Whitney Lake creek fault has been corrected on the maps.

RESULTS OF GEOPHYSICAL

A ground electromagnetic and magnetic survey has been carried out over the property during February and March of this year to confirm and locate previous results carried out in 1984 and to locate a grid to establish the location of the anomalies.

The ground magnetometer survey was completed utilizing a proton magnetomer capable of reading total field values to an accuracy of plus 10 gammas. All readings were tied to a base station to correct for diurnal variations.

No major magnetic zones were outlined on the property. An interesting magnetic zone occurs on line 8E and 9E at 200 meters north. Several other magnetic zones were located.

An electromagnetic survey was carried out over the property using a VLF-EM 16 unit manufactured by Geonics Ltd.

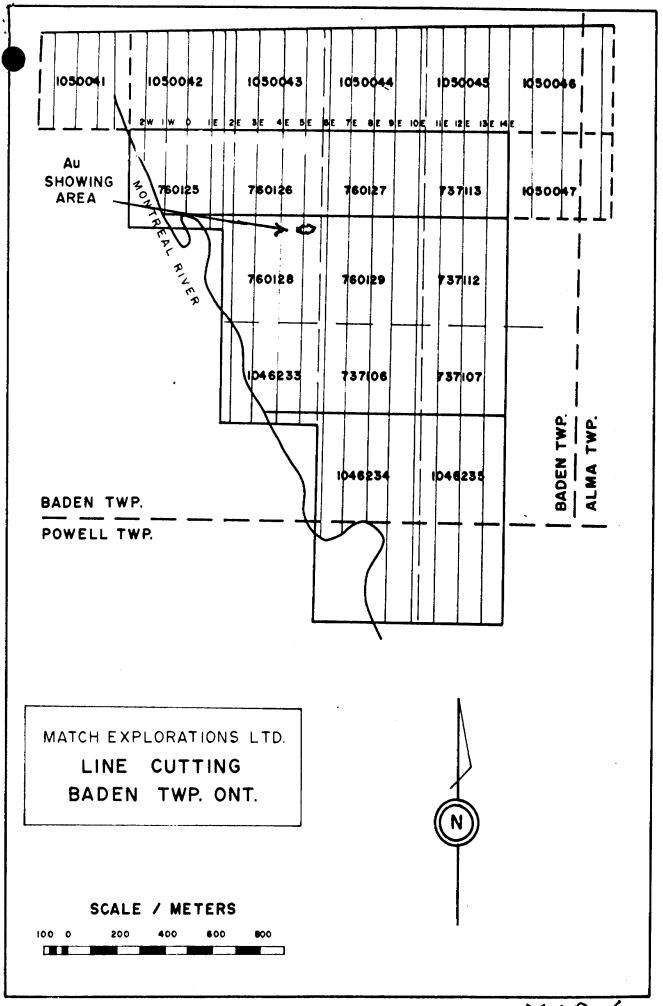
One east west anomaly occurs on the northern part of the property and extends from chainage 100 meters north on line 0 to 450 meters north on line 13E. This anomaly reflects a structural trend and may represent shearing. It is shown on the map as Aanomaly "A".

Anomaly "B" extends from 50 meters north on line 8E south easterly to 50 meters south easterly to 50 meters south on line 12 E.

Anomaly "C" occurs at chainage 150 meters south on line 4E. This is a small anomaly and is considered interesting and should be drilled.

Anomaly "D" occurs on line 4E at chainage 400 south and extends to line 6E at chainage 425 south. This anomaly is a local structure and probably represents shearing. It should be tested by diamond drilling.

Anomaly "E" occurs on line 11E at 650 south and trends north easterly to line 12E at chainage 600 south. This anomaly should also be tested by diamond drilling.





Edwin Gaucher, ing., Ph.D. Réjean Desbiens, ing., M.Sc. Régis Desbiens, ing. Simon Tshimbalanga, ing.

EXPERTS-CONSEILS EN GÉOPHYSIQUE



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MATCH EXPLORATIONS LIMITED

INDUCED POLARIZATION SURVEY ON THE BADEN PROPERTY, BADEN TOWNSHIP, ONTARIO

Project 144.02

April 21, 1989

Younes Saim, Jr. Eng.

Edwin Gaucher, Eng., Ph.D.

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CONTENTS

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1. INTRODUCTION

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A the request of Mr. Stanley Mourin, President of MATCH EXPLORATIONS LTD., an Induced Polarization (I.P.) survey was run in March 1989 on their Baden Township property by GEOSIG INC. This survey was done under the supervision of Younes Saïm, junior engineer of Geosig, and it covered most of the claims of the property.

2. PROPERTY, LOCALIZATION AND ACCESS

This mining property is situated some five kilometers northeast of the village of Matachewan, Baden Township, and it was reached by skidoo from Indian Reserve 72, which is accessible by truck from Matachewan.

The grid surveyed extends some 1100 meters in an E-W direction. The N-S oriented lines are spaced every 100 meters and their length varies from 1100 to 1800 meters.

We did not note any claim posts, but one post is localized on a map supplied to us by Match Explorations Limited and we assumed the other posts from the one localized.

The following claims were covered by our survey:

737106	760128
737107	760129
737112	1046233
737113	1046234
760126	1046235
760127	1050043
	1050044

We noted on our map the position of a few trenches, especially over anomalies IP-1 and IP-3. Because of the snow, we did not attempt to really draw the observed trenches.

3. FIELD WORK, PROCEDURE AND INSTRUMENTS

The property was surveyed in March 1989. Gérard Couture, technician, acted as party chief, assisted by Younes Saïm, jr. eng., and Denis Nolet, Patrick Lanmigan and Dave Krutz, helpers.

The survey covered 14 km and was performed in the time domain with a standard waveform: 2 seconds ON, 2 seconds OFF. We used a dipole-dipole configuration, with a 25-meter electrode spacing, and readings were taken at three separations (n = 1 to n = 3).

Steel pin electrodes were used for the receiver and the transmitter. On the receiver electrode spreads, stainless steel pin electrodes were used in order to improve the signal-to-noise ratio.

The following equipment was used:

Receiver: Transmitters: - IP-6 built by EDA-BRGM, s/n 08

- T3P, 1400 W, 2 kV, built by

Instrumentation GDD Inc., s/n 08

- T3P, 1400 W, 2 kV, built by Instrumentation GDD Inc., s/n 10

The receiver reads out chargeabilities (M) within 1 msec on four windows, which were added up with the following formula:

 $M(2 s) = \{(120 M1 + 220 M2 + 420 M3 + 820 M4) / 1580\}$

A line of 25-meter cables connected to each other allows to read all four dipoles at once. Since the chargeability on the IP-6 receiver is half the normal calibration, we multiply the value of the chargeability by two. The final chargeability is then identical to the Crone, Huntec or Scintrex receivers. Because of the high resistivities, we usually used the 1000-V scale of the transmitter and we often had to replant the pins of the transmitter and the receiver. In some places, it was impossible to take a reading, which explains holes on the color contour map.

4. GENERAL INFORMATION ON THE I.P. SURVEY

4.1 Purpose of the I.P. survey

An I.P. survey is usually done in order to detect conductive and/or polarizable meterials such as sulfides or graphite. Therefore, the survey consists in measuring the chargeability (M) and the apparent resistivity (R) along the grid lines surveyed.

Theoretically, the resistivity map should pinpoint conductive sulfides or graphite bodies. In reality, resistivity maps usually reflect variations in the conductivity and thickness of the overburden. The chargeability (M) measurements do allow the detection of sulfides or graphite bodies, either massive or disseminated, as the overburden seldom if ever shows any chargeability.

In areas of variable overburden conductivity, chargeability "anomalies", even over massive sulfide bodies, are subdued where the surface conductivities are high. Readings may be lower over sulfide bodies covered by clays (as low as 3 msec) than over non-mineralized but highly resistive volcanic outcrops (10 to 20 msec). To interpret an I.P. survey with such variations, both sets of measurements, chargeability and resistivity, must therefore be studied together. This is why we prepare normalized chargeability (NC) maps as they reflect better the actual distribution of sulfides and other polarizable materials. Resistivity and raw chargeability maps are also drawn.

4.2 Presentation of results

The results of the survey are represented at 1:2500 scale. On one set of maps we plotted the three profiles at the following scales:

Chargeability (M)
Surface resistivity (R)

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20 msec/cm

Logarithmic scale:

1 to 1 000 000 Ω -m, 1 cm per decade 1000 Ω -meters centered on the line

Normalized chargeability (NC)

25 mhosec/cm

The localization of IP conductors is mostly based on the shape of the NC profiles which were calculated from M and R with the following formula:

 $NC = 9.58 * M/\sqrt{R}$ (formula 1) if R<1000* if R>1000* NC = 303 * M/R(formula 2) where R $= \pi a * n (n+1) * (n+2) * Vp/I$ NC = normalized chargeability, mhosec R = apparent surface resistivity, Ω -meters M = chargeability read on the receiver display, msec. = voltage between receiver electrodes, mvolts = current transmitted, milli-amperes = electrode spacing, meters = number of separations 303 and 9.58 = normalization factor

* When the resistivity is equal to 1000 Ω -meters, both formulas give the same NC value.

We gave the name of mhosec to the normalized chargeability as it is obtained by multiplying the conductivity (I/R) measured in mhos by the chargeability (milliseconds), or mhosec. By combining those two parameters, we created the new name, mhosec.

The results are shown as profiles of the first separation on plan # 4369. The resistivity, the chargeability and the normalized chargeability, also at the first separation, have been contoured and they respectively appear on plans #4370, 4371 and 4372. The three separations are presented as contoured pseudo-sections at the same scale as the profiles. The interpretation of the I.P. survey is based on the pseudo-sections which was then transferred on the profiles. In this area, the overburden is usually shallow.

4.3 Usefulness of the Normalized Chargeability

An I.P. survey consists in measuring the apparent resistivity and chargeability between four electrodes in order to predict the distribution of sulfides and other polarizable materials such as graphite. From those two parameters, we calculate the Normalized Chargeability (NC) using the formulas mentioned above. In areas of variable overburden conductivity, the application of the NC filter compensates for the high background chargeability observed in areas of high resistivity (outcrops or outcrops covered by very thin overburden) or the extremely low background chargeability observed in areas of swamps and conductive overburden.

The purpose of the exercise is to refine the NC so that a given mass of sulfides is represented by an anomaly of at least very approximately the same amplitude, whatever the nature and depth of the surface overburden.

5. PROBABILITY OF ANOMALIES AND PREDICTION OF THE QUANTITY OF SULFIDES

In an attempt to clarify our reports, we add two parameters to the description of each anomaly. In geophysics, we may express the probability that a bedrock source for an anomaly exists, but we can also, under certain conditions, predict if a given anomaly corresponds to a large or a small quantity of sulfides. Here are explanations of the two parameters we will use to better describe the anomalies of our surveys.

5.1 Probability

- A 0,9 probability indicates that the anomaly is actually present in the bedrock and that it will be intersected in more than nine out of ten attempted drill holes. A miss on such an anomaly means that there is either a mistake in chaining, or that the drill hole crossed the anomaly through a dyke, a faulted offset, or a local "barren" hole. Anyone with experience in a mine will testify that such occurrences can occasionally happen.
- A 0,5 probability means that the signature of the anomaly is somewhat doubtful, the signal-to-noise is less than 3, either because the overburden is deep or because of the interference of an adjacent stronger anomaly. The probability that the anomaly corresponds to a target is therefore lowered to a point where only one in two of such drill holes will hit a target. For example, if a target is small but of cylindrical shape, a drill hole collared too far away may completely miss the anomaly if the cylinder has a lateral rake. Any target having a 0,5 probability should be drilled if the local geology is favourable or if targets are few or far between. Out of the thousands of drill holes that we have recommended up to now, only six have resulted in mining operations. For three out of these six mines, the first drill hole was spotted on a doubtful anomaly where the probability was about 0,5 or, in other words, there was only one chance out of two to explain the anomaly by a bedrock source. And yet, most D.D.H. are drilled on anomalies that have a probability of 0,9.
- A 0,2 probability means that on the average only one drill hole in five will intersect a sulfide concentration important enough to explain the anomaly. It is often much better to drill such weak IP anomalies if the geology is favourable than to select diamond drill targets at random, or even to select magnetic anomalies or VLF targets. When comparing targets for example, we believe that the probability is much less than 0,1, that an "average" magnetic anomaly will correspond to sulfides or graphite and, if we consider VLF anomalies in clay areas, the probability is lower than 0,05, or hardly better than luck. However, VLF anomalies where the overburden is resistive may be just as reliable as MaxMin or Pulse surveys in outcrop areas, or where the overburden is non conductive.

5.2 Quantity of sulfides

Once the geophysicist has expressed the probability of an anomaly, he may add the second parameter, that is the estimation of the content of sulfides (or graphite) that we may expect to find by diamond drilling*. From past experience, we find that this estimate helps to communicate the results of our survey to the geologist doing the follow up.

MaxMin, VLF and Pulse surveys do not allow to predict how much sulfides will be found as the same excellent conductor may be due to a 2-cm thick pyrrhotine bed or to a 20-m chalcopyrite lense containing 10% copper. Our compilations and studies have actually shown that there is no correlation between either the quantity of sulfides or their economic content and the conductivity of EM conductors. On the other hand, I.P. surveys can semi-quantitatively predict the amount of sulfides or graphite that drilling will intersect. To this end, we have to take into account the width and the amplitude of the anomaly in mhosec, but also make our decisions according to the nature, thickness and conductivity of overburden covering the bedrock. Gravity surveys also allow such estimates.

As the I.P. response over a certain quantity of sulfiides also depends on the grain size and therefore the geologic history of the area surveyed, we attempt to adjust our estimates to any diamond drill hole result from the area surveyed.

^{*} Reference: Gaucher Edwin, "Estimation of Sulfide Content of a Potential Orebody from Surface Observations and its Role in Optimising Exploration Programmes" in Developments in Geophysical Exploration Methods, published by Applied Science Publishers Ltd., England, 1984.

6. DESCRIPTION OF THE I.P. SURVEY

6.1 Resistivity

The resistivity map (#4370) shows that the area north of the base line is covered by moderate overburden with a few outcrops, such as under lines 2+00E, north of 4+00N, and under lines 2+00E, 3+00E and 4+00E, from 3+00N to 4+00N. A major outcrop area occurs south of the base line. The outcrop areas and the cliffs are shown on the topo map. The resistivity backgrounds are:

on the lake:

250 Ω-m

in moderate overburden areas:

1000 Ω-m

in outcrop areas:

1000 to 6000 Ω -m

6.2 Chargeability

The background chargeability (map #4371) oscillates around zero on the lake, from 5 to 10 msec on the shallow overburden, and from 10 to 30 msec on the outcrops. Most anomalies stand out of their respective background, but some outcrop areas also appear as chargeability highs. We believe that a high chargeability formation underlies a portion of line 10+00E/2+00S and line 12+00E/3+00S.

6.3 Normalized chargeability

The contoured normalized chargeability (map #4372) shows nicely the horizons containing major sulfide or graphite concentrations. The background N.C. oscillates below 0,5 mhosec and the anomalies rise from 2 to 15 mhosec and, exceptionally, to 30 mhosec. Almost all anomalies are evident on the contour map and they stand out remarkably on the pseudo sections.

6.4 Description of IP anomalies

By this survey, we have been able to localize and describe six anomalies. All of them are rather short and two coincide with existing trenches.

Anomaly IP-1

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This 400-m long anomaly extends from line 3+00E/0+50S to line 5+00E/1+35S, and even to line 6+00E. The N.C. reaches 15 mhosec on lines 5+00E and 4+00E, or 15 times the background. The resistivity drops to less than 1000 Ω -m from a background of 14 000 Ω -m.

A trench was observed along the anomaly on line 5+00E and a drill hole is already reported under line 4+00E. Our survey suggests a disseminated sulfide zone for about 35 meters north of the conductive axis plotted.

If the drill hole under line 4+00E was long enough to investigate until picket 2+00S, then the decision about further drilling can be taken according to the assays and geological information from the core. If not, then a drill hole should investigate under L-4+00E/1+50S.

A diamond drill hole under line 5+00E/1+35S has a probability of 0,9 to find an explanation for the anomaly. We estimate that it would intersect a 3-meter wide layer containing 50% of sulfides or graphite and, from 0+90S to 1+20S, a zone containing 3% of sulfides or graphite.

The west end of IP-1, called IP-1a, occurs under line 3+00E/0+75S and 0+35S, but it may extend until line 2+00E. The N.C. reaches 10 mhosec on line 3+00E, or 10 times the background. The resistivity drops to less than $1800 \ \Omega$ -m from a background of $16000 \ \Omega$ -m.

A diamond drill hole under line 3+00E/0+35S and 0+75S has a probability of 0,8 to find an explanation for the anomaly. We estimate that it would intersect a 3-meter wide layer containing 30% of sulfides or graphite. As IP-1a may be distinct from IP-1b, it should be drilled or trenched whatever the assays on IP-1b.

Anomaly IP-2

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This strong 150-m long anomaly occurs under line 5+00E/3+50S to 5+00S and it extends to line 6+00E/4+50S. The N.C. reaches 30 mhosec on line 5+00E, or 30 times the background. The resistivity drops to less than 500 Ω -m from a background of 5 000 Ω -m. Trenches have investigated the anomaly under 5+00S.

Our survey suggests disseminated sulfide zones for about 50 m north or south of the conductive axis. A trench was observed along the anomaly on line 5+00E.

A diamond drill hole under line 5+00E/4+50S has a probability of 0,9 to find an explanation for the anomaly. We estimate that it would intersect a 3-meter wide layer containing 50% of sulfides or graphite. Another D.D.H. under line 6+00E/4+50S has a probability of 0,9 to explain the anomaly and we estimate that it would intersect a 3-meter wide layer containing 40% of sulfides or graphite. The portion of the anomaly under line 5+00E/4+00S has already been investigated by trenches.

Anomaly IP-3

This short and weak anomaly occurs under line 8+00E/5+75S. The N.C. reaches 2,4 mhosec on both lines, or twice the background. The resistivity drops to 5000Ω -m from a background of 17 000 Ω -m. Our survey suggests a disseminated sulfide zones about 15 m north of the plotted conductive axis.

A diamond drill hole under line 8+00E/5+75S has a probability of 0, 4 to find an explanation for the anomaly. We estimate that it would intersect a 3-meter wide layer containing 10% of (graphite) and a wider zone of weakly disseminated sulfides.

Anomaly IP-4

This strong single line anomaly occurs under line 7+00E/8+10S. Its weak extension may perhaps be recognized until line 11+00E. The N.C. reaches 7,5 mhosec, or 7 times the background. The resistivity drops to 2500 Ω -m from a background of 15 000 Ω -m. To the east, the anomaly was not perceived under line 8+00E, but a reading is missing. To the west, the anomaly may extend under the lake.

A diamond drill hole under line 7+00E/8+10S has a probability of 0,8 to find an explanation for the anomaly. We estimate that it would intersect a 3-meter wide layer containing 25% of sulfides or graphite, and from 7+75S to 7+50S, a zone containing 3% of sulfides or graphite.

Anomaly IP-5

This short single line anomaly occurs under line 10+00E/10+00S where the N.C. reaches 2,2 mhosec, or twice the background. The resistivity drops to 1300 Ω -m from a background of 6000 Ω -m.

A diamond drill hole under line 10+00E/10+00S has a probability of 0,3 to find an explanation for the anomaly. We estimate that it would intersect a 3-meter wide layer containing 15% of sulfides or graphite.

Anomaly IP-6

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This short single line anomaly occurs under line 10+00E/2+25S where the N.C. reaches 1 mhosec, or twice the background. The resistivity drops to less than 1500 Ω -m from a background of 30 000 Ω -m.

A diamond drill hole under line 10+00E/2+25S has a probability of 0,3 to find an explanation for the anomaly. We estimate that it would intersect several 2-meter wide layers containing 3% of sulfides or graphite.

Other anomalies

A few other interpreted anomalies were drawn on the pseudo sections and maps. Some of them could be drilling targets depending on the previous D.D.H. or the geological context.

CONCLUSION

The I.P. survey identified five clear anomalies caused by concentrations of sulfides or graphite. We now have fine interesting geophysical targets and only IP-1 and IP-2 were already known and had been tested, at least partially.

We suggest to drill the selected targets appearing on our compilation map. The targets on IP-2 and IP-3 were chosen while taking into account the approximative position of the previous known D.D.H. and trenches. In the case of IP-4 and IP-5, an accurate compilation should be done from the previous maps and the D.D.H. positions could be confirmed this spring after the thaw up at the same time as the geological examination of the outcrop area.

RECOMMENDATIONS

We suggest to systematically drill all the geophysical targets as they have all been checked by detail readings.

RECOMMENDED TARGETS

Anomaly	Line	Station	Resistivity	Normalized Chargeability (n = 2)	Probability	Quantity of sulfides
			(Ω-m)	(mhosec)	* 40 85 49 89 10 00 85 10 00 15.	
IP-1	4+00E	1+50S	1000	15,0	0,9	3 m x 50%
11	5+00E	1+35S	1000	15,0	0,9	3 m x 50%
н	3+00E	0+35S	1800	10,0	0,8	3 m x 30%
		and 0+75S				
IP-2	5+00E	4+50S	500	30,0	0,9	3 m x 50%
**	6+00E	4+50S	500	30,0	0,9	3 m x 40%
IP-3	8+00E	5+75S	5000	2,4	0,4	3 m x 10%
IP-4	7+00E	8+10S	2500	7,5	0,8	3 m x 25%
IP-5	10+00E	10+00S	300	2,2	0,3	3 m x 15%
IP-6	10+00E	2+25\$	12500	1,0	0,3	2 m x 10%

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DRILLING COMPANY			COLLAR ELEVATION	BEARING OF HOLE TOTAL FOOTAG	GE DIP OF HOLE AT	FIXED P	ON OF HOL	E IN RELAT HE CLAIM		1	RENCE NO.	CLAIM NO.	
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DRILLING COMPANY PROM TRUE NORTH COLLARION LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO. coller DATE HOLE STARTED DATE COMPLETED DATE LOGGED LOGGED BY LOCATION (Tp., Let, Cen. OR Let. and Long.) DEC 1/89 Biothe Westing EXPLORATION CO., OWNER OR OPTIONEE h | MATCH CAP RE 6 PROPERTY NAME BUDEN FOOTAGE DESCRIPTION CORE SAMPLE FOOTAGE ROCK TYPE SAMPLE ASSAYS . PEATURE SPECIMEN SAMPLE Colour, grain size, texture, minerals, alteration, etc. F00TAGE + FROM LENGTH つシバ 10 27.0 Thise beleases C 1550 36.0 NIL 14. 700 0000 64,17 60.0 166.0 64.0 oa) Diccias, moderning a revisitie alightly Maried 6.0 hand (cities) from 36,6 to 39 M 68,5 73,0 14,4 1555 73.0 177.0 KIL NIL 1556 101 103 NIL 14,6 ociding 572 provided units lesson 112 La 32 V successite NIL NIL N., NIL to progressive for right to be received as K62 146 K 149.0-5 flow too linter law 10% DO 26! DW 1563 176.0 177.0 NIL 1564 179.0 143.0 NIL 186.8 MIL Growil A4 50



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THE MINING ACT - MINISTRY OF NATURAL RESOURCES DIAMOND DRILLING LOG

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DRILLING COMPANY BEARING OF HOLE TOTAL FOOTAGE DIP OF HOLE AT LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO. FIXED POINT ON THE CLAIM COLLAR coller DATE LOGGED LOGGED BY DATE COMPLETED LOCATION (Tp., Let, Can. OR Let. and Lang.) DATE HOLE STARTED EXPLORATION CO., OWNER OR OPTIONEE DATE SUBMITTED SUBMITTED BY (Signature) 6 # 1 PROPERTY NAME DESCRIPTION FOOTAGE CORE SAMPLE FOOTAGE TOUR SAMPLE SAMPLE ASSAYS + ROCK TYPE PEATURE SPECIMEN Colour, grain size, texture, minorals, alteration, etc. FROM AHELE S POSTAGE S FROM -LENGTH =32.5 24'-0 Pelbin Virte 144 Til 1770 F. 1570 1. 0.05 to 0115" aren followithing ده نادانده C 1581 232.0 238.0 NIL thent Himmuelile 1582 238 n 243. n NIL 1543 243.0 242.0 NIL 5% to 7% disking 1238.7-726.0 theretion radely NIL 24: ... 1-51.7 e alterno 1584 75/9 755 D 11.6 white mark the man 1585 234,5 1264,8 21.4.7 -17.9. MIL 272 % 1013 Tax / Seigl Tillstone or out told asauch フィフ・ウー 2つのぐっ NIL potalice Ichson 1568127015 1272.0 : N 272.0 1275.0 NIL .75.01280.0 NIV wet source fact you unknowin 0 TENHOLE 3 2 3 ACC 2000 (L ne fall ! - that it still actions = 53×12 3 = - coop x. Y. S - Wind zone bee in the warment 11;



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THEMINING ACT - MINISTRY OF NATURAL RESOURCES DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top parties of form only on first page for each hole.

FILL IN ON HOLE NO. LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO.

DRILLING	COMPANY			COLLAR ELEVATION	BEARING OF HOLE	TOTAL FOOTAGE	DIP OF HOLE AT	PIXED	FOINT ON	E IN RELA	TION TO A	MAP REF	RENCE NO	CLA	0.	<u></u>
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ILLING COMPANY		E LAR E LEVATION	BEARING OF HOLE TOTAL FOOTA	GE DIP OF HOLE AT	FIXED P	OINT ON T	HE CLAIM	ION TO A	MAP REFE	RENCE NO.	CLA	P .
TE HOLE STARTED	DATE COMPLE	TED DATE LOGGED	LOGGED BY	fr	1		•		LOCATION	(Tp., Lot, Co	o. OR Let. en	nd Long J
PLORATION CO., OW	NER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	61-		`. •						
•	•			61		1		٠.	-			
				6					PROPERT	THANE		
FOOTAGE	ROCK TYPE		DESCRIPTION	•	PLAMAR FEATURE	CORE	YOUR	SAMPLE	FOOTAGE	SAMPLE	AS	SAYS +
ROM TO	· · · · · · · · · · · · · · · · · · ·	4 Colou	r, grain siza, taxtura, minerals, alteratio	n, etc. '	were.	FOOTAGE +	#VW9E#	FROM	†o	LENGTH		
	•	484.2-49n.0 B	derist and		+		-		 			
	•		idate a 1+2mation the and	ute me shoote					 			
		angue or ware	12200 127 12 19	, 9								
	<u> </u>	contact icrogal	is displaced at 484.	Z			1616	498.7	5016	NI		
		17.5 470 40	me aux et 490.0					 	<u> </u>	<u> </u>		······
					 				 			
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		- twi-2 'en	asotaren las asams	hequest pericitie		• •••••						
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		± 49€,2→ 4.	1K.K and 501.0 -> 501.6.	Van 514.8 -> 515.4	1	A SE SE			 			<u> </u>
	. ••		3	Control of the wind of the war and the	4 27 44 4		33. 32. 3	21 1 21	1 ,50	November 198	· · · · ·	
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	· · ·		1 14		4						•	
		5242-5610 Ad	1 till - 11 from 490 -	523.5			1618	769.0	471.5	WIL		
		5:1:)-873.7 3-		LIEUS	-	the second	1519	3765	573.7	Aly V		
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		411 11.41	To wall from k fragments	35 - Top ans						n - 1-16		
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		- 573.3 1	stoylote is minuted	141 B	3			Kair				
		purchatite		10	1, 101, 11							
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		580% 1.50 Lih	1 1/2 1 20 1 1/100 =	175)					<u> </u>	 		
	•	THE THE PLANT	1. 1 2 mire (490-5)	2/2 /	 		<u></u>	<u> </u>	 			
		1600 €		· · ·			 		 			 .
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Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON
EVERY PAGE SOLATION OF HOLE IN RELATION TO A MAP REFERENCE NO. CLAIM HO

DRILLING	COMPANY	•		COLLAR	BEARING OF HOLE TOTAL FOO	CTAGE DIP OF HOLE AT	* LOCATION OF HOLE IN RELATION FIXED POINT ON THE CLAIM		FION TO A	MAP REF	RENCE NO.	CLA	IM NO	-	
DATE HO	LE STARTE	DATE COMPLI	ETEO	DATE LOGGED	LOGGED BY	61	7		•		1		Con. OR Le	t. end Leng.)	5
EXPLORA	ATION CO.,	OWNER OR OPTIONEE	حسب ما	DATE SUBMITTED	Bo Was in Sugaryo)	fe	1			•	BADEN	•			
10	YP FRY	ON CAP	KEZ		Jane S. Water	6.1	•								
,	1.				1	60				•	PROPERT	Y NAME			
FOC	TAGE	ROCK TYPE			DESCRIPTION	•	PLANAR	CORE SPECIMEN	YOUR SAMPLE	SAMPLE	FOOTAGE	SAMPLE		ASSAYS +	
FROM	10.3	CVB		Colour,	grain size, texture, minerals, altera	tion, etc.	MELE	POOTAGE +	NUMBER	FROM	†o T	LENGTH			
	10.5	CVB			· · · · · · · · · · · · · · · · · · ·	·	 	<u> </u>		 					
103	84,6	Mil. Williams For	is Fine	to melium		India mails flower.	1		C 1659	10.1	2/.0				
	01/0	J.C. G.	Loff.	massive and	Silvered	A SOUTH STORY			C 1657	1800	27.0		ALL		
				1 touching some	and sediments intice	te flow thicknesses			1453	38:5	42,5		Nir		
			لديما		tu 20				1034				771		
	 		- Ratio	. ts 2.1. In 16	liviagne riell.				1660	74.43	67,0		NIL	<u> </u>	
				<u> </u>					2130		13710				<u> </u>
	 		_ Curc.	500 21 40.7	in setments.				1651	25.5	87.6		NIL		<u> </u>
				57 25 65.5					1657	31.6	12.5		NIL		-
	 			10° xt 77.0 Z° st 81.6									-		
						1 1 / / /							·		
	 		11000	Vei innies (1)	+	uineralized interliner			 						
			- barra	1 1113 16 16	13. C. 3. 1. C. 4. (1.)	PUT TO ANY SURING! I'M									
11/2	187.4	Har Flows & Track	1300	and bearing	e F1. 1 . 2 . 4 . 4 . 4 . 4	Tulks									<u> </u>
		1													
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				19". FU					<u> </u>						
			- Valo	rige time to	Melian gramer fark	Joseph Flows,									•
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Otano	THE MI	NING A	ct - DRI	MINIST	ray of G LOC	NATU

Start a new page for every new hole, but fill in top pertion of form only on first page for each hole.

FILL IN ON HOLE NO. CLAIM NO.

PRILLING CO			COLLARION	BEARING OF HOL	E TOTAL FOOTAGE		FIXED P	N OF HOLE	E IN RELAT HE CLAIM	ION TO A	MAP REFE	RENCE NO.	CLA	IIM NO.	
TATE HOLE	STARTED	DATE COMPLET	TED DATE LOGGED	LOGGEO BY		collar	1	·	•		LOCATION	(Tp., Lot, C	on. OR Le	1. and Lang.)	• •
			DATE SUBMITTE	D SUBMITTED BY (5	ignature)	61	7								
EXPLORATIO	ON CO., OWNER	OR OPTIONEE				6				-	PROPERT	Y NAME	····		
				}.		fr	•		-					<u></u>	
FOOTA	GE			DESCRI			PLANAR FEATURE	CORE SPECIMEN POOTAGE +	SAMPLE .	SAMPLE	FOOTAGE TO	SAMPLE		ASSAYS	r
FROM	то	ROCK TYPE .		Tull Put Si	minerals, alteration, at	ke. '	Mere.	POOTAGE V		-	1				
			89.6-97.3 Ash	Sily bedding	520 to cm2	avik									
			10 0-97 3		-				C 1633	1061)	109.0		Nes	 	
				10				 	 		-				
			197.3-115.5 Volc	mic Flows	- 107.2 Alan	top () because									
			1770-105	3.3 selinent		to core oxis			1:54	115.5	1/3.9	 	NIL	 	
			TIS A	1 32%	El meite uni	ill and cubes		 	 					·	
			115.5 - 118.7 A.	12:13	& Were man	acs sur Larry					122 0			 -	
			113,9-12-3	vic than				<u> </u>	15:5	129.0	132 10	 	14	 -	
			124.0 -1625 A	<u> </u>											
			12110	30 1991				ļ	1111	11(71)	150.0	<u>, </u>	NI		-
			113 - 2 m 2 m - D	sillo lasta	to the Main	Plou	_	-	1630	15/.0	11:50.0		177		
		<u> </u>	162.5-170.6	the constant	-14 20% as	Vic volcanic						ļ		 .	
			1- framients			y		ļ	16:2	134.0	150.0	4	NIC		
								 	1777	168.0	171.0		1	1	<u> </u>
			177.10-171.0 5	oli Entron hou	. d 										
			ientu	500 As come						<u> </u>		 	-		
			12.201219	Tale Flow				 	 						
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			178.9- 187.4 Oliver	CONT. 5 400	to con axil	S Wass-Car by									
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			Bary broken	til would cod	<u> </u>	120-0 - 182 NS	_	+	-	1	1	 	1	 -	. L
			to load only	monitie Subs	ALL STOM	10.0 - 10.2.3		1		1	1				
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DIAMOND DE	- MINISTRY OF NATU			pertion of form only	every new hele, but fill in to an first page for each hele.				•	E۱	LL IN ON /ERY PAG	E NOLE	- \$
HILLING COMPANY	•	COLLAR	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	FIXED PO	OF HOLE	E IN RELAT IE CLAIM	ION TO A	MAP REFE	RENCE NO.	CLA	M NO
ATE HOLE STARTED	DATE COMPLETE	DATE LOGGED	LOGGEO BY		61	7		•		LOCATION	(Tp., Let, C	on. OR Let	. and Lang
XPLCRATION CO., OWNER	OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Sign	nature)	61	1							
				•		7							
	•				6	4			,	PROPERTY	NAME		
FOOTAGE		7.33	DESCRIPT	ION	fe	PLANAR	CORE	Yeur	SAMPL F	FOOTAGE	SAMPLE	<u></u>	ASSAYS
FRCM TO	ROCK TYPE	: Colour,	grain size, texture, mi		c.	PEATURE !	BPECIMEN	SAMPLE HUMBER	FROM	ŤO	LENGTH		1332131
27.4 202.0 Sen	it Brecsia				1								
		Strong secretic	utivared and	el modirate	to intense			61676	187.4	192.5		NIL	
		testania basecia	•			++		1671		194.7		Nin	
		trace very fix	م المنافقة	Talife House	ight most	- 		1672	197.7	202,0		NIL	
		intensty heestisted	2016 hom	1 192.5-1	97.7			- 15 - 7	11.7	70210			
		J											
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2.7 21%7 Ach	Tell Burston	Milian is ada	eria pela	with a sh	ant aniplish								
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		Possibly a weat	he tomatition	saidstone									
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			1 / × 1 . · · · · · · · · · · · · · · · · · ·					1574		221,0		NIL	-
- 711.4		Volcavic tiggerentel	Detrie fice	<u> </u>		1 1		1575	221.0	74,4		NIL	<u> </u>
		10% to 111 c fra	giractly 1" to 6	1-GAL 7-16	7-7710, then					-			
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		Stepre barking , we	elly greenston	rt. variable	40 to 530 to come				6 ·				

[•] For features such as faliation, bodding, schistosity, measured from the long axis of the care.

ntario PRILLING COMPANY (1) 12811 | 10 10 10 10

THE MINING ACT - MINISTRY OF NATURAL RESOURCES DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top parties of form only on first page for each hale.

and the second of the second o

FILL IN ON HOLE NO EVERY PAGE FIXED POINT ON THE CLAIM

CLAIM NO

ITLLING COMPANY. ()		COLLAR	BEARING OF HOLE TOTAL FOOT				-	ION TO A	MAP REFE	15 24.	S. CLAI	
		DATE LOGGED	LOGGED BY NUMT		LOCATIO	N OF YOU!	IN RELAT	ION TO 4	LOCATION	(Tp., Let, C	on. OR Let.	end Long.)
TE HOLE STARTED	DATE COMPLETED	UA18 COUCES		· ;(:))		. ••		· ·	Name of A		-5,74	:
PLORATION CO., OWNER	OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	"					-	-,		
PLCPAT ON CO., OWNER	•	ว่า เพื่อพากายต	SUBMITTED BY SIGNATURE	<u>h</u>					PROPERTY	Y NAME		
	•		N .	11			Y		FOOTAGE	SAMPLE		ASSAYS .
FOOTAGE			DESCRIPTION		PLANAR PEATURE	SPECIMEN SPECIMEN	SAMPLE	-FROM -		LENGTH		
ROMTO	ROCK TYPE	Colow,	grain-sizo, taxtura, minorals, altota	ien,-990-			C+676		245.2		· N · L	
	2004 7779		11	1 1 :1/			C76/D	7770	0.7.	+	_/¥3	
2,2. 245.2. 3/21	Frank Control P	mount of warden	atchy carbonatitie co	utact - anic with -					-			
		٥.	· . · · · · · · · · · · · · · · · · · ·				1677-	245,2	250.0		41.1	
	+	,, 1 7." to B	" calcite veils and	ind Climics			1676	250.0	254 0	 	00)	
				- (= 7 /			1677	254.0	256.6	 	.00	2
	3	viatore or ash	tre lominant from	747.640 245.8	 			256.6	2613		. W.L	
	1	270 rech eittel	12, chart 343,8-Z	15.2 sittences	 		1680	261.3			NIL	
	· co	tett is not a	listing!		 		1/,9.7	2163	2700	 	NIL	
	•	•			 	 	1683	1770.0	275.0		NIC	
					-	<u> </u>	1/84		783.13	-	NIL	-
	1.1.			1, 14,1 = 50	 	 	1605	280.0	_	 	1/12	
309.3	F/Siltstone 16		very dark green, pyr	tic relatively marrie		 	1185	- 285,0	T	 	NIL	
		etiments!	0 0 10	, 0	 	 	1600	1289.0	212.8		NIL	
						 	1689		295.8	 	NIC	
	1/	iobable : Lap C	ordicter		 · · ·	 		7958	298.0	 	NIL	
	:			1 11 A L	 	 		2 298.0	303.0	 	NI	
		to 320 printer	Noth as the ture con	troked thingory and		+		3030		 	· N	
	•	in dissininate	in toth fire and con	ric throughout unit	.			307,0	307.3	 	1	
			a pyrifotite although au	crolle prestiling trace amount	1	 	1-1316	307,0	13000		1	
	Pa			- up to 20%					 	 		
		Lits from 1/2"	to bely thin size	2928-3093						+	-	<u> </u>
		1 67 11	, , 0				1/27	301,3	314.0	+	NIV	 -
			inficitions		 	· · · · · ·	1613		15120	 	1	
			5.6		 	 	 		 	+	 	
		440 st 20	C.8 1	· · · · · · · · · · · · · · · · · · ·		 	 	+	1		 	·
	•	53° of 2	88.0			 	+	+*	 	1		
		58° et 2	72.0		+	+	1414	344.0	3480	 	NV	
	<u> </u>			-tafta 11 \ / -	+		1775	7.4.5	7.0.0	 	11.	
5 35'25 521	150.112	persoly pestimen	ion with a moderate pr	CHE (IMAATTIC) hite		 		1		 	 	
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	11	with frequent 3	"Vo 3" clasts files	cal composition			 		• • • • • • • •	_	+	 - ·
	1				 				 	-	+	
	h	sily himbu silie	the followers to con			 		- 				
	17.	1,94 A 301.3a	41 "facture 15" to coo :	<u> </u>					111.00		1. 500 500	

itario.		DRILLING LOG			loup of HOLE AT	LOCATIO	N OF HOL	E IN RELAT	ION TO A	MAP REFE	ENY PAG	CLAIM	
IILLING C	OMPANY !	DAMENT	COLLAR ELEVATION	BEARING OF HOLE TOTAL FOOTAGE,	1	1		E IN RELAT					
E HOL	STARTED	DATE COMPLETE	O DATE LOGGED	LOGGED BY NOTE	could	FIXED P	CINT ON T	EIN RELET HE CLAIM	104 102			Cen. OR Let. e	
DAAT	10N CO. 01	NER OF OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	6		•			SCATION	(' p., Lot, (Cm. 05 Ler. 1	, .
		enca of perions	A · · · ·	Service Memory of the State Services	- (1)	•				PROPERTY	NAME		····
				•	6	}							
, FOOT	AGE	<u> </u>		DESCRIPTION		PLANAR FEATURE	CORE SPECIMEN	YOUR SAMPLE		FOOTAGE	SAMPLE		ASSAYS
ROM		ROCK TYPE		y-grain-siza,-taxtur a, m inorals , altoration, a t	[:]		-		FROM		-FENETH-		
	275.0	1/2 rear boilli	,		14 1 1 1 1	7. a*		151695	-361.0	364.0		NIL	
- :		All.	rouse men quet	in to corrie grand possi	la volerichitis.	· .		1696	364,0	368.0		NIL	
		. 10	7//2 1	1 1 1 1 1 1 1	11 1 201 400			<u> </u>					
			2" to 12" wdinint	my lands of 360 and 361	barting 35% 408	 	-	 					
			to we ases		<u></u>			1697	380.0	385.0		NIL	
									385,0	381.0		NIL	
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			and colleged made inplices	15 /2 7000 of sust.	1		ļ	1100		1/00 0		1	
				1		 	<u> </u>		395.0	400.0		NIL	
			Spicialic aftered	fine villa common 311	-425	ļ	ļ:	1700	420.0	405.0		1/14	
			`			 			 	 		 	
							-	122	427,5	430.0-		1/14	
									7277	14 3070		1,7/2	
	 иии у.		- Southiles	not entered an interes	un fileour			 					
55-, 5.	444,4	possion of francis netal	1 - 4	y vieta solvertiny matril	OIL VEINER								
			domina ich jar or	7 100 100 100 100 100 100 100 100 100 10	· · ·								
<u> </u>			Poss 2 flow 12	icin for contaminated intil	sive marain.								
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(LLKH	514.2	Consumerated Flow	Lot possible files	one intrusive ?)				· · -	ļ	-	ļ	 	
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			Variet texturid in	dic corde grained from	- 1 - 1 - 1	 	 	1705	510.0	5/4.2		(11/-	
			Panger topus light	typeen to Adre grown , rein	remar profits have	 	 			520.0		111-	· •
			17. 12. 17. 17. 19.	discrete to l'uto: lacker-inter	riona (husidio uszanie	\	 	1 1/03	7,3,0	340.0		1	
	<u> </u>		Mus U	DISCIPLE TO THE PROPERTY OF	TO SUM LANDING TO SEPTIME	/ 	 	 	<u> </u>			1	i
		•	7	0 (
,			NICTION AUSTORY	16,200	<u>.</u>	·							
			1	f					1	<u> </u>	<u> </u>	 	
			Shaip - 120 to	come axis at 513,5 to 514.2 w	the a striction		<u> </u>				 	4	
	1		Aldered arroad -	h 5/5,0 . () 120 to -000 24		1	1	1	1	}		1	1

THE MINING ACT - MINISTRY		RESOURCES
DIAMOND DRILLING LO		neraceope
	DIAMOND DRILLING LO	DIAMOND DRILLING LOG

FILL IN ON HOL

89-5 6/-

		D DRILLING		COLLARION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	hele.	1		IN RELAT			RENCE NO	CLA	IM NO.	
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THE MINING ACT - MINISTRY OF NATURAL RESOURCES DIAMOND DRILLING LOG

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DRILLING	COMPANY			COLLAR	BEARING OF HOLE TOTAL FOOTAGE DIP OF HOLE AT			FIXED POINT ON THE CLAIM				MAP REFERENCE NO.		CLAIM NO.	
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DRILLING COMPANY

THE MINING ACT .- MINISTRY OF NATURAL, RESOURCES DIAMOND DRILLING LOG

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A Magazinean Son - Branch Control Conference

BEARING OF HOLE TOTAL FOOTAGE DIP OF HOLE AT

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THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

NOTE:	Hole No. U80	9-6 15 COM	nparable:	to Baden	Tup
	D.D.R.# 18.	However,	it exclu	ides the s	ample_
	footage				
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