BURCHELL LAKE AREA
1992 EXPLORATION PROGRAM
CARRIED OUT BY
ART WALLACE
OPAP GRANT # OP92-024

by: CLAUDE LAROUCHE, P. ENGINEER
OVALBAY GEOLOGICAL SERVICES INC.
1070 Lithium Drive, Unit #1
THUNDER BAY ONTARIO
P7B 6G3
Tel: (807) 623-3770
Fax: (807) 623-2335

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INTRODUCTION

During the summer of 1992 following an OPAP GRANT to ART WALLACE, a prospecting, mapping and sampling program was undertaken in order to investigate very definite targets.

- Gabbro:
  to find out if any differentiation has taken place within the larger masses, for potential Cu-Ni, Pt-Pd mineralizations.

- Surface gold showing:
  drilled last December (1991) but not intersected at depth.

- Large sulphide iron formation:
  with well developed gossan.

The following report summarizes the findings along with a brief description of the area.
PROJECT LOCATION

- Area: Burchell Lake, Waverly Lake
- Township: ---
- Mining Division: Thunder Bay Mining Division
- Claim Map Sheet: G-706
- NTS Map Sheet: 52B/10SE
- Latitude: 48° 31' 35" North
- Longitude: 90° 36' 45" West

Figure 1: Location Map

The mining property is located approximately 120 air miles west of Thunder Bay, south southwest of Kashabowie in the Shebandowan Greenstone Belt.
Figure 1: Location Map
ACCESS

The group of claims is easily accessible via Highway # 11 (Figure 2). Roughly 1 mile west of Kashabowie along Highway # 11, a secondary road, Highway # 802 south, branches from Highway # 11 and it can be followed over a distance of 14 kilometres south before entering the north east corner of the claims under study. This road crosses the entire east portion of the claim block and few bush roads branch from this secondary road and give access to the other portions of the claim block.
ROAD ACCESS FROM HIGHWAY 11 AT KASHABOWE TO THE OBADINAW AND SHEBANDOWAN CLAIM GROUPS
LIST OF CLAIMS

The property consists of 11 contiguous, unpatented mining claims in the Shebandowan area within the Thunder Bay Mining District. The claims are registered at the Mining Recorder's office in Thunder Bay and are found on the "Burchell Lake" claim map sheet G-706.

887960 887955 887961
887959 887956 887962
887958 887957

1193968 (8 units)
1195452 (4 units)
1195453 (7 units)
PROSPECTING TARGETS

A compilation of the results of the previous geophysical surveys has been completed and has been used as a base for prospecting. Numerous electromagnetic conductors need to be investigated. On claim TB 887959 a highly mineralized sequence of tuffaceous sediments and chert has been exposed during construction of the road by the lumber company. The formation strikes southwest with a vertical to 85 degrees northwest dip. The mineralized zone is also highly gossanized.

On claim TB 887960, two (2) holes drilled in December 1991, with OPAP money, returned wide sections of anomalous gold values of up to 0.042 opt Au within felsic and cherty tuffs and also within locally highly silicified andesite-diorite.

From a preliminary compilation of the regional geology, it appears that the two (2) zones described above would fall into a large band of felsic rocks in contact with mafic volcanics to the north and to the south. Most of the anomalous gold values located to date in the general area seem to be present close to this felsic - mafic contact. Numerous electromagnetic conductors are present within the felsic unit and no prospecting has been carried out in that portion of the claims.

In the northwest corner of claim TB 887960 surface sampling also returned assays of over 1.00 opt Au and some other samples returned significant copper, zinc and silver values. This showing was discovered a few years ago and yet no significant prospecting has been completed around the showing which has been trenched for assessment work but not mapped in any detail.
HISTORY AND PREVIOUS WORK

Gold was first discovered in the area at Moss Lake in 1871 by Kerry Gold Mines Ltd. It later became the Ardeen Gold Mines and operated intermittently until 1937 with a total production of 143,724 tons of ore which yielded 29,948 ounces of gold and 172,376 ounces of silver.

The majority of previous work in the area was related to base metal exploration in the late 1950's and 1960's is search of massive sulphide deposits similar to the North Coldstream Copper Mine located 3 miles to the north of the property. The mine produced 15,000 tons of copper, 6,224 ounces of gold and 139,505 ounces of silver with an average grade of 2.08% copper from 1903 to 1961.

Interest in gold has recently intensified with the discovery of significant gold mineralization by joint Venture partners Tandem Resources/ Stotimin Exploration at Snodgrass Lake. Reserves of over 80,000,000 tons grading 0.032 ounces of gold per ton have been defined to date by diamond drilling and a 2,000 foot decline has been driven for bulk sampling in 1987.

The following is an outline of previous exploration works conducted on the ground currently held by International Geo-Ventures Ltd - Mike Fogen - Dan Calvert.

- RIO TINTO CANADIAN EXPLORATION LIMITED from 1976 to 1978

During September 1976, an airborne magnetic survey was flown on behalf of Riocanex Limited by Questor Surveys Limited over most of the property under study. Subsequently in early 1978, Rio Tinto drilled a series of holes (8?). Three holes are located on the present property but their exact location is not known. The core is stored at the Thunder Bay core library. Rio Tinto was searching for peridotite in order to locate Cu – Ni mineralizations.

- INTERNATIONAL GEO-VENTURES in 1987

They completed a grid of lines which was used as reference stations for the ground magnetic and electromagnetic VLF-Em 16 surveys which covered the whole property.

Before 1976 intermittent prospecting and geological mapping works were carried out in the general area which was not easily accessible at the time.
REGIONAL GEOLOGY

The study area lies in the Shebandowan area approximately 120 kilometres west of Thunder Bay, Ontario, within the western Wawa subprovince of the Superior Province of the Canadian Shield.

Gold deposition in the Shebandowan area is spatially related to major east-northeast trending structural systems within the metavolcanic sequence. Diorite and feldspar porphyry dyke swarms emplaced along the structural systems have been subjected to various stages of brittle and ductile deformation, along with albite, sericite and chlorite alteration. Gold occurs late in the system, accompanied by minor chalcopyrite mineralization.

The potential for base metal mineralization should not be overlooked at the contact of mafic and felsic volcanics which crosses the group of claims under study.

The geology of the Burchell Lake area has been described by Giblin P.E., in Ontario Department of Mines Geol. Report # 19, 1964.

The property covers a northeast-southwest trending belt of Archean volcanics which are bounded on the northwest by metasediments and on the southeast by large intrusive granite complexes. The volcanics themselves define an anticlinal structure, with the core occupied by older felsic volcanics and the flanks by younger mafic lavas. In addition to the volcanic rocks, intrusive bodies of syenite and gabbro are also present in the area.

Aeromagnetics maps show locally higher magnetic reliefs which may correspond to ultramafic rocks and gabbros. Folding and faulting can also be interpreted from the airborne surveys.

As mentioned by Giblin (Geol. Rept. # 19), there is a deep pre-glacial valley running in a roughly north-south direction through the area of Fountain Lake, which is filled with overburden to depths in excess of 300 feet. None of the drill holes put into the north part of Fountain Lake have succeeded in penetrating this overburden.

More recently the west-central Shebandowan greenstone belt is being re-mapped by I. Osmani (1991-1992) as part of a three (3) years mapping project. The supracrustal rocks of the map area have been subdivided by Williams et al (1991) into two (2) assemblages: 1) the Burchell assemblage characterized by three (3) northward-younging volcanic cycles; and 2) the Greenwater assemblage, consisting of three (3) southward-younging volcanic cycles. The contact between the Burchell and Greenwater assemblages is placed immediately south of the south shore of Shebandowan Lake (Figure 3).
Figure 3: General bedrock and structural geology of western Greenwater Lake area. The distribution of mineral occurrences is also shown. The abbreviations are: BLS=Burchell Lake stock; HLS=Hemlock Lake stock; HLS=Hood Lake stock; GLS=Greenwater Lake stock; LGP=Little Greenwater Lake pluton; NCMSS=North Coldstream Mine Shear Zone; USSL=Upper Shebandowan Lake Shear Zone; py=pyrite; and ep=chalcopyrite.
The major gold occurrences of the immediate area are localized within a structural zone underlain by highly deformed intermediate to felsic metavolcanic rocks and diorite dykes. Zones of sericitization, chloritization and albitization have been recognized with gold concentrations of significant amounts being localized in shear zones within the diorite intrusives.

Hugon (1988) has interpreted this structural zone to have suffered contemporaneous sinistral and dextral displacement, with gold mineralization being preferentially located in the 060° trending dextral shears.

This set of shears has been transposed and/or truncated by a more regional 030° trending sinistral shearing event. Future exploration should focus on locating shear structures trending obliquely to the regional trend which may have created greater tensional openings for late stage gold mineralization.
RECENT WORK

Part of the grid line was re-established in the northeast part of the property under study in order to carry on detailed mapping around an outcrop of peridotite. Gabbro is the most common exposure in the area and locally pegmatitic phases of the gabbro are also present. It is possible that some of the peridotite may be derived as early phase of the gabbro. The sampling of the gabbro did not return any significant values in Cu, Ni, Pt, Pd, Au and Ag.

TABLE OF LITHOLOGIES

CENOZOIC
- RECENT Swamp and stream deposits
- PLEISTOCENE Sand and gravel

Great unconformity

PRECAMBRIAN
- PLUTONIC ROCKS
  - Granite dyke
  - Gabbro - diorite

Intrusive contact

- METASEDIMENTS AND META VOLCANICS
  - Greywackes
  - Felsic metavolcanics
    - Chert & Iron Formations
    - Tuffs
  - Mafic metavolcanics
    - Andesite
    - Basalt (Tuffs and lavas)
    - Peridotite (?)

The mafic metavolcanics consist mainly of amphibolite schist, with minor pillow lava, fragmental, tuff, chlorite schist and coarse gabbroic phases that may represent both flows and intrusive masses. Banded iron formations are intercalated within the mafic metavolcanic rocks. The amphibolite schists are the most abundant and are composed of hornblende, chlorite, carbonate and feldspars in beds of a few inches to many feet and represent mafic tuffs. Basalt, fine grained, massive and dark green in colour are also present locally with pillow structures. A few outcrops of fine grained, black coloured, massive rocks have been mapped as peridotite. They are easily scratched, waxy, talc is present and also serpentine along fractures. They are usually closely associated to the gabbros. Locally the mafic metavolcanics grade into intermediate metavolcanics (Andesite).
The felsic metavolcanic rocks are represented mainly by tuffs of grey colour, usually white on weathered surface. Bedding is from 1 cm to more than 30 cm thick and locally folded. Where sheared, sericite schist are present.

The iron formations are composed principally of chert, magnetite with variable amounts of pyrite as blebs and as stringers. Minor pyrrhotite and chalcopyrite are also present. The chert is grey to brownish grey to black in colour and is locally brecciated, recrystallized and folded.

The gabbro is abundant in the area mapped and is characterized by a grey to dark grey colour and is medium to coarse grained, composed of amphiboles and feldspars in variable amount.

The diorite is present mainly within the felsic metavolcanics in the north west corner of the claim block. It is medium grained, massive, grey in colour and locally silicified and carbonated. Minor disseminated pyrite is also present.

The greywackes are composed of quartz - feldspar - biotite - hornblende, thinly bedded and occurs in minor quantities interbedded within the mafic tuffs and they are also present in the south eastern portion of the mapped area.

Washing and detailed mapping of trenches dug in 1990 but not previously described led to the identification of an interesting gold bearing shear zone in the northwest corner of claim TB 887960 (Map 4). In the past, erratic gold value were obtained from an outcrop of felsic volcanic and sericite schist. The washing and cleaning exposed a shear zone oriented northwest - southwest, a direction across the general stratigraphy. The bedding within the felsic volcanics is oriented at 30° on the west side of the shear and 90° on the east side. It is possible that the felsic tuffs have been folded in the area and some shearing occurred parallel to the axial plane of the fold.

The shear zone is filled with quartz veining mineralized with large pyrite cubes, the zone from 1.5 to 2 feet in width average grade over 0.4 opt Au over width 1.5 to 2 feet for a length of 35 feet. The zone is vertical and parallel to the hole drilled in December 1991 (AJW-91-1).

Propsecting, blasting and sampling have been carried out on the sulphide iron formation. Pyrite pyrrhotite and minor amount of chalcopyrite have been observed within the brecciated chert. Adjacent outcrops of tuffs and fragmented locally contain garnet. This horizon represents a good marker for local interpretation of the structure.
Re-sampling of hole WL-91-1 has also been completed. Zone of quartz-carbonate along with semi-massive pyrite stringer, 2 cm wide oriented parallel to core axis are present within fine to medium grained fairly massive diorite. In general, the diorite is highly anomalous in gold.

<table>
<thead>
<tr>
<th>Interval</th>
<th>Width</th>
<th>Gold (ppb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>160.0 - 164.0</td>
<td>4.0</td>
<td>162 ppb</td>
</tr>
<tr>
<td>164.0 - 166.0</td>
<td>2.0</td>
<td>278 ppb</td>
</tr>
<tr>
<td>166.0 - 170.0</td>
<td>4.0</td>
<td>1,441 ppb</td>
</tr>
<tr>
<td>170.0 - 175.0</td>
<td>5.0</td>
<td>205 ppb</td>
</tr>
<tr>
<td>175.0 - 180.0</td>
<td>5.0</td>
<td>208 ppb</td>
</tr>
<tr>
<td>180.0 - 183.0</td>
<td>3.0</td>
<td>728 ppb</td>
</tr>
</tbody>
</table>

0.015 opt Au
23 feet

Two other zones have been detailed (Map 2 and Map 3) in order to determine the stratigraphy in the area.

All samples collected and assayed during the summer have been described in Appendix 1 and a copy of the assay certificate is also included.
CONCLUSIONS

The recent exploration program located a new direction of gold bearing shear zone. More trenching and prospecting in the area is highly recommended.

The sulphide iron formation appears to be located at the contact of felsic volcanics to the northwest and mafic volcanics to the southeast. This is a very important contact to prospect.
BIBLIOGRAPHY

- Rio Tinto Canadian Exploration Limited (1977)
  Burchell Lake area, Ontario, NTS 52-B Report on an Airborne Magnetometer survey: by J. A. McCance, March 1977 (2.2355)

- Rio Tinto Canadian Exploration Limited (1978)
  Diamond drill logs by U. Paltser

- O.G.S. (1964)
  Burchell Lake Area, Geological Report # 19, by P. E. Giblin

- International Geo-Ventures (1987)
  A report on VLF-Em and magnetometer surveys carried out over 49 mining claims; The Shebandowan Group, located in the Burchell Lake area, Thunder Bay Mining Division, Ontario by Georges Jeffs, December 1987.
COST OF WORK
BURCHELL LAKE PROPERTY

- Line refreshing and chaining
  Mike Fogen Jr. 7 days @ $100.00/day ............ $ 700.00

- Cut New Baseling (north limit of property)
  2.5 km @ $450.00/km .......................... $ 1,125.00

- Prospecting, drilling, blasting, sampling
  26.5 days @ $100.00/day ...................... $ 2,650.00

- Geological mapping
  3 days @ $350.00/day ............................. $ 1,050.00

- Assays .............................................. $ 543.03

- Trenches: washing, striping, sampling and description
  5 days @ $350.00/day ............................. $ 1,750.00

- Travelling
  Ovalbay 3,610 km @ $0.30/km ............ $ 1,083.00
  Art Wallace 1,670 km @ $0.30/km .... $ 501.00
  $1,584.00

- Report, photocopy and reproduction ................ $ 750.00

TOTAL: $10,152.03
CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

- I am a resident of Thunder Bay, province of Ontario, Canada (385 Riviera Drive, Box H-9, Thunder Bay, Ontario, P7B 6K2).
- I have been engaged in mining exploration since 1974 and have been consulting as a professional geological engineer since 1980.
- I am a graduate of Quebec University, Chicoutimi (B.Sc. Eng., 1974) and Carleton University (M.Sc. Geol., 1979).
- I am a member of the Order of Engineers of the Province of Quebec and also a member of Prospectors and Developers Association and of the Canadian Institute of Mining and Metallurgy.
- This report is based on pertinent informations from previous data and the author personal supervision of the project. The author conducted a large part of the survey.


CLAUDE LAROUCHE, P. Eng.
APPENDIX 1

BURCHELL LAKE PROPERTY
WALLACE-WING-CALVERT-INTERNATIONAL GEO-VENTURE

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Description of sample</th>
<th>Au (ppb)</th>
<th>Ag (ppm)</th>
<th>Cu (ppm)</th>
<th>Zn (ppm)</th>
<th>Ni (ppm)</th>
<th>Pt (ppb)</th>
<th>Pd (ppb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30701</td>
<td>Diamond drill hole WL-91-1 from 164.0' to 166.0', andesite-diorite, rare quartz carbonate stringers.</td>
<td>278</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30702</td>
<td>Diamond drill hole WL-91-1 from 175.0' to 180.0' fairly massive fine to medium grained diorite.</td>
<td>208</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30703</td>
<td>Diamond drill hole WL-91-2 from 168.0' to 170.0', andesite silicified carbonated, 3-5% pyrite.</td>
<td>56</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30704</td>
<td>Diamond drill hole WL-91-2 from 176.8' to 180.0', andesite silicified carbonated, 3% pyrite.</td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30705</td>
<td>Diamond drill hole WL-91-2 from 180.0' to 185.0', feldspar porphyry slightly carbonated, minor disseminated pyrite.</td>
<td>99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30706</td>
<td>Boulder of silicified coarse amphibolite gneissic with 20% pyrite-pyrrhotite and magnetite, altered (carbonate, pink feldspar).</td>
<td>26</td>
<td>153</td>
<td></td>
<td></td>
<td>23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30707</td>
<td>Gabbro with disseminated pyrite in contact with intermediate volcanics.</td>
<td>12</td>
<td>0.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
30708  Grab  Cherty iron formation, few narrow pyrite fractures.
        Au: 10 ppb  
        Ag: 1.6 ppm

30709  Grab  Cherty iron formation, few quartz carbonate stringers, minor pyrite.
        Au: 13 ppb  
        Ag: 1.6 ppm

30710  Grab  Rusty shear in silicified coarse amphibolite gneiss 10% pyrite-pyrrhotite, minor quartz stringers.
        Au: 21 ppb  Cu: 105 ppm  Zn: 17 ppm  
        Ag: 0.8 ppm  Ni: 18 ppm

179601 Composite  Rusty highly folded chlorite sericite schist, with felsic fragments and locally quartz eyes, cherty beds.
        Au: 9 ppb  Cu: 70 ppm  Ni: 25 ppm  
        Ag: 1.6 ppm  Zn: 61 ppm

179602 Composite  Cherty tuffs, grey colour, grey quartz veinlets (recrystallized chert), fine stringers of pyrite also as larger blebs rusty fractures, minor folding evident sericite, alteration, locally numerous quartz carbonate pyrite stringers parallel or perpendicular to bedding, brownish to pinkish colour (carbonate ?) pyrite blebs up to 1 inch across and containing quartz and carbonate, trace of chalcopyrite.
        Au: 55 ppb  Cu: 39 ppm  Ni: 93 ppm  
        Ag: 1.2 ppm  Zn: 67 ppm

179603 Composite  Cherty tuffs with "boudins" of quartz -carbonate cut by semi-massive pyrite stringers. Cherty tuffs with chert beds, semi-massive narrow beds of pyrite.
        3 types of pyrite - blebs which seems to be fragments, generally fine grained. 
            - narrow beds or stringers parallel to bedding. 
            - filling fractures within cherty tuffs and quartz veinlets.
Rusty fractures, minor chalcopyrite, few chloritic rusty shears with heavy pyrite.

Au: 7 ppb   Cu: 78 ppm   Ni: 88 ppm
Ag: 1.2 ppm  Zn: 48 ppm

179604 Composite Cherty tuffs, grey to brownish in colour folded, pyrite 3% mainly along bedding brecciated recrystallized chert (white colour) with pyrite matrix (15%) and abundant chlorite, trace of chalcopyrite, irregular quartz large pyrite cubes and possibly minor chalcopyrite, large blebs of pyrite at vace of folds with minor chalcopyrite.

Au: 9 ppb  Cu: 108 ppm  Ni: 113 ppm
Ag: 1.6 ppm Zn: 51 ppm

179605 Composite Chert (recrystallized) fragments within a matrix of pyrite, chert white to grey in colour, 1 to 2% disseminated pyrite also luish mineral? covellite, pyrrhotite, chalcopyrite, fragments of cherts are cemented by a finer grained matrix of pyrite chlorite sericite carbonate, fracture covered with limonite, many places massive pyrite, chjalcopyrite covellite, pyrrhotite? matrix around chert fragments, in place chert contains pyrite, pyrrhotite, chalcopyrite and is later fractured with fractured filled with massive pyrite + chalcopyrite minor, block mineral? within recrystallized chert.

Au: 15 ppb  Cu: 80 ppm  Ni: 92 ppm
Ag: 2.4 ppm  Zn: 28 ppm

179606 Composite Fine fragments of recrystallized chert with a matrix of pyrite, block mineral quartz-carbonate, trace of chalcopyrite, minor pyrrhotite, rusty fractures, locally limonite on top of semi-massive pyrite stringers > 1.5 inches wide, 50% pyrite, 40% pyrrhotite, 10% chalcopyrite, quartz-carbonate.

Au: 32 ppb  Cu: 57 ppm  Ni: 91 ppm
Ag: 3.6 ppm  Zn: 27 ppm

179607 Grab Recrystallized grey to white chert fragments with 5% pyrite block mineral, pyrrhotite, minor chalcopyrite, covellite.

Au: 12 ppb  Cu: 27 ppm  Ni: 52 ppm
Recrystallized chert fragments with up to 50% pyrite, pyrrhotite, black to grey mineral, minor chalcopyrite + covellite, covellite locally abundant.

- **Ag**: 0.4 ppm  
  **Zn**: 14 ppm

---

**179618** Grab

As above, black to grey mineral locally abundant, locally quartz crystal within matrix of sulphide.

- **Au**: 18 ppb  
  **Cu**: 88 ppm  
  **Ni**: 98 ppm  
  **Ag**: 2.0 ppm  
  **Zn**: 29 ppm

---

**179609** Grab

Broken chert with matrix of pyrite + pyrrhotite, trace of chalcopyrite, locally fragments of chert are very small and matrix is rich in pyrite, chlorite, sericite, quartz carbonate, rusty fractures.

- **Au**: 21 ppb  
  **Cu**: 70 ppm  
  **Ni**: 129 ppm  
  **Ag**: 2.4 ppm  
  **Zn**: 31 ppm

---

**179610** Grab

Rusty cherty horizon within thinly bedded felsic volcanics.

- **Au**: 100 ppb

---

**224451** Grab

Cherty horizon with irregular bands of magnetite.

- **Au**: 89 ppb

---

**224452** Grab

Cherty horizon, trace disseminated pyrite.

- **Au**: 46 ppb

---

**224454** Chip

Over 2.0 feet, shear zone with quartz veining, large pyrite cubes.

- **Au**: 42,218 ppb

---

**224455** Chip

Over 2.0 feet, 20 feet northwest of 224454, same shear.

- **Au**: 19,267 ppb

---

**224456** Chip

Over 1.0 foot, 25 feet northwest of 224454, same shear.
<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Sample Type</th>
<th>Description</th>
<th>Au Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>224457</td>
<td>Chip</td>
<td>Over 3.0 feet, 30 feet northwest of 224454, shear zone cutting sericite schist with minor disseminated pyrite.</td>
<td>3,411 ppb</td>
</tr>
<tr>
<td>224458</td>
<td>Chip</td>
<td>Over 1.0 foot, felsic volcanic wall rock of shear zone, semi-massive pyrite stringers, 35 feet northwest of 224454.</td>
<td>970 ppb</td>
</tr>
<tr>
<td>224459</td>
<td>Chip</td>
<td>Over 2.0 feet, chlorite sericite schist cutting felsic volcanics.</td>
<td>2,906 ppb</td>
</tr>
<tr>
<td>224460</td>
<td>Grab</td>
<td>Feldspar porphyry, minor disseminated pyrite.</td>
<td>640 ppb</td>
</tr>
</tbody>
</table>

Au: 47 ppb
24-Jul-92

Mr. Art Wallace
RR #5 Pole Line Road
Thunder Bay, ON
P7C 5M9

Attn: Mr. Claude Larouche/ Mr. Art Wallace

Received: 20-Jul-92 14:38

Project: PO #: 924378T

Status: Final

Core Samples

<table>
<thead>
<tr>
<th>Sample</th>
<th>Au FA/AA3 ppb</th>
</tr>
</thead>
<tbody>
<tr>
<td>30701</td>
<td>278</td>
</tr>
<tr>
<td>30702</td>
<td>208</td>
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<td>30703</td>
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<td>30704</td>
<td>59</td>
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<tr>
<td>30705</td>
<td>99</td>
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Attn: Mr. Claude Larouche

Project: PO #:

Job: 924639T

Received: 22-Sep-92 07:52

Status: Final

Rock Samples

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<th>Sample</th>
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<th>Ag AA</th>
<th>Cu AA</th>
<th>Zn AA</th>
<th>Ni AA</th>
<th>Pt FA/AA1.3</th>
<th>Pd FA/AA1.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>706</td>
<td>26</td>
<td>1.2</td>
<td>153</td>
<td>8</td>
<td>23</td>
<td>&lt;15</td>
<td>&lt;10</td>
</tr>
</tbody>
</table>
29-Sep-92

Mr. Art Wallace  
10 #5 Pole Line Road  
Inunder Bay, ON  
P7C 5M9

Attn: Mr. Claude Larouche  

2 of 2  

Page:  
Copy:  
Set:  

Job: 924639T  

Status: Final  

PO #:  

Received: 22-Sep-92 07:52  

ROCK SAMPLES

<table>
<thead>
<tr>
<th>Sample</th>
<th>Au FA/AA3</th>
<th>Ag AA</th>
</tr>
</thead>
<tbody>
<tr>
<td>12707</td>
<td>12</td>
<td>0.8</td>
</tr>
<tr>
<td>12708</td>
<td>10</td>
<td>1.6</td>
</tr>
<tr>
<td>30709</td>
<td>13</td>
<td>1.6</td>
</tr>
</tbody>
</table>
Mr. Claude Larouche  
1070 Lithium Drive  
Thunder Bay, ON  
P7B 6G3  

Attn: Mr. Art Wallace  
Job: 924666T  

<table>
<thead>
<tr>
<th>Sample</th>
<th>Au (FA/AA3 ppb)</th>
<th>Ag (AA ppm)</th>
<th>Cu (AA ppm)</th>
<th>Ni (AA ppm)</th>
<th>Zn (AA ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30710</td>
<td>21</td>
<td>0.8</td>
<td>105</td>
<td>18</td>
<td>17</td>
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</table>

7-Oct-92  
Page: 1  
Received: 24-Sep-92  
Status: Final
Attn: Mr. Claude Larouche/ Mr. Art Wallace

Project:  
Job: 9243761

Received: 20-Jul-92 14:41
Status: Final

Rock Samples

<table>
<thead>
<tr>
<th>Sample</th>
<th>Au FA/AA (ppb)</th>
<th>Ag FA/AA (ppm)</th>
<th>Cu AA (ppm)</th>
<th>Zn AA (ppm)</th>
<th>Ni AA (ppm)</th>
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<tbody>
<tr>
<td>179601</td>
<td>9</td>
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<td>70</td>
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<td>179602</td>
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<td>1.2</td>
<td>39</td>
<td>67</td>
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<tr>
<td>179603</td>
<td>7</td>
<td>1.2</td>
<td>78</td>
<td>48</td>
<td>88</td>
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<tr>
<td>179604</td>
<td>9</td>
<td>1.6</td>
<td>108</td>
<td>51</td>
<td>113</td>
</tr>
<tr>
<td>179605</td>
<td>15</td>
<td>2.4</td>
<td>80</td>
<td>28</td>
<td>92</td>
</tr>
<tr>
<td>179606</td>
<td>3.2</td>
<td>3.6</td>
<td>57</td>
<td>27</td>
<td>91</td>
</tr>
<tr>
<td>179607</td>
<td>12</td>
<td>0.4</td>
<td>27</td>
<td>14</td>
<td>52</td>
</tr>
<tr>
<td>179608</td>
<td>18</td>
<td>2.0</td>
<td>88</td>
<td>29</td>
<td>98</td>
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<td>179609</td>
<td>21</td>
<td>2.4</td>
<td>70</td>
<td>31</td>
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<td>3.6</td>
<td>87</td>
<td>25</td>
<td>116</td>
</tr>
</tbody>
</table>
Wallace, Mr. Art
R.R. #5
Pole Line Road
Thunder Bay, Ontario
P7C 5M9

Work Order #: 924869
Project:

<table>
<thead>
<tr>
<th>SAMPLE NUMBERS</th>
<th>Customer</th>
<th>Gold ppb</th>
<th>Gold Oz/T</th>
</tr>
</thead>
<tbody>
<tr>
<td>224451</td>
<td></td>
<td>100</td>
<td>0.003</td>
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<tr>
<td>224452</td>
<td></td>
<td>89</td>
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<td>46</td>
<td>0.001</td>
</tr>
<tr>
<td>224454</td>
<td></td>
<td>42218</td>
<td>1.229</td>
</tr>
<tr>
<td>224455</td>
<td></td>
<td>19267</td>
<td>0.561</td>
</tr>
<tr>
<td>224456</td>
<td></td>
<td>3411</td>
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<td>224457</td>
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<td>970</td>
<td>0.028</td>
</tr>
<tr>
<td>224458</td>
<td></td>
<td>2906</td>
<td>0.085</td>
</tr>
<tr>
<td>224459</td>
<td></td>
<td>640</td>
<td>0.019</td>
</tr>
<tr>
<td>224460</td>
<td></td>
<td>47</td>
<td>0.001</td>
</tr>
</tbody>
</table>
| 224460         |          | 51       | 0.001     | Check
Report of Work Conducted After Recording Claim

Ministry of Northern Development and Mines
Ontario

Transaction Number: W4440-090

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 158 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for a Recorder.
- A separate copy of this form must be completed.
- Technical reports and maps must accompany.
- A sketch, showing the claims the work is associated with, must be included.

Recorded Holder(s): DANIEL CALVERT / MIKE FOGEN / INTERNATIONAL GEO-VENTURES LTD
Client No.: 147721
Address: 500 Halton Street, THUNDER BAY, ON. P7A 7K8
Telephone No.: (807) 767-5351
Mining Division: THUNDER BAY
Township/Area: BURCHELL LAKE

Date Work Performed: From June 1st, 1992 To November 30th, 1992

Work Performed (Check One Work Group Only)

<table>
<thead>
<tr>
<th>Work Group</th>
<th>Geotechnical Survey</th>
<th>Physical Work, Including Drilling</th>
<th>Rehabilitation</th>
<th>Other Authorized Work</th>
<th>Assays</th>
<th>Assignment from Reserve</th>
</tr>
</thead>
</table>

Total Assessment Work Claimed on the Attached Statement of Costs: $11,827.03

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAUDE LAROCHE</td>
<td>385 Riviera Drive, Box H-9 THUNDER BAY ON. P7B 6K2</td>
</tr>
<tr>
<td>OVALBAY GEOLOGICAL SERVICES INC.</td>
<td>1070 Lithium Drive, Unit #1 THUNDER BAY ON. P7B 6G3</td>
</tr>
</tbody>
</table>

Certification of Beneficial Interest

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: March 22, 1993

Certification of Work Report

I certify that I have personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying

CLAUDE LAROCHE

Date: March 22nd, 1994

For Office Use Only

Total Value C. Recorded: $11,827

For Office Use Only
In the event that you have not specified your choice of priority, option one will be implemented.

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In order to minimize the adverse effects of which claims you wish to prioritize the deletion of credits. Please mark one of the following:

Note 2: If work has been performed on patented or leased land, please complete the following:

Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mineral land.

Note 2: If work has been performed on patented or leased land, please complete the following:

Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mineral land.
### Personal Information

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 1A5, telephone (705) 670-7264.

### Statement of Costs for Assessment Credit

#### Mining Act/Loi sur les mines

#### État des coûts aux fins du crédit d’évaluation

1. **Direct Costs/Coûts directs**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Amount</th>
<th>Total global</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wages Salaries</td>
<td>Labour Main-d’œuvre</td>
<td>5,025</td>
<td></td>
</tr>
<tr>
<td>Field Supervision</td>
<td>Supervision sur le terrain</td>
<td></td>
<td>5,025</td>
</tr>
<tr>
<td>Contractor’s and Consultant’s Fees</td>
<td>line, mapping</td>
<td>2,175</td>
<td></td>
</tr>
<tr>
<td></td>
<td>trenching</td>
<td>1,750</td>
<td></td>
</tr>
<tr>
<td></td>
<td>report</td>
<td>750</td>
<td>4,675</td>
</tr>
<tr>
<td>Supplies Used</td>
<td>Fournitures utilisées</td>
<td></td>
<td>543</td>
</tr>
<tr>
<td></td>
<td>Assays</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Direct Costs</strong></td>
<td><strong>Total des coûts directs</strong></td>
<td><strong>10,243</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Indirect Costs/Coûts indirects

**Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Amount</th>
<th>Total global</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation</td>
<td>Transport</td>
<td>1,584</td>
<td></td>
</tr>
<tr>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sub Total of Indirect Costs</strong></td>
<td><strong>Total partiel des coûts indirects</strong></td>
<td><strong>11,827</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

\[
\text{Total Value of Assessment Credit} \times 0.50 = \text{Total Assessment Claimed}
\]

### Certification Verifying Statement of Costs

I hereby certify:

that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Agent (Recorded Holder, Agent, Position in Company) I am authorized to make this certification.

### Remises pour dépôt

1. Les travaux déposés dans les deux premiers ans de leur achèvement sont remboursés à 100 % de la valeur totale du crédit d’évaluation susmentionné. Voir calculs ci-dessous.

\[
\text{Valeur totale du crédit d’évaluation} \times 0.50 = \text{Évaluation totale demandée}
\]

### Attestation de l’état des coûts

J’atteste par la présente :

que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d’évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu’à titre de (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

### Signature and Date

**Signature**

**Date**

March 22nd, 1994

**Notas:**

1. Dans cette formule, lorsqu’il désigne des personnes, le masculin est utilisé au sens neutre.
August 2, 1994

Minister du Développement du Nord et des Mines
Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS TB.887955 ET AL IN BURCHELL LAKE AREA

Assessment work credits have been approved as outlined on the original work report form for the submission. The credits have been approved under Section 12, Geology of the Mining Act Regulations.

The approval date is August 2, 1994.

Please disregard the deletion letter dated July 5, 1994 for this file.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

LJ/IJ

cc: Resident Geologist
Thunder Bay, Ontario

Assessment Files Library
Sudbury, Ontario
New Base Line
Claim 85360

TOWNHIP: 18CA
N.T.S. 4°W.R.

DATE

EXECUTED BY CL.
INTERPRETED BY — —
APPROVED
DRAWN

MAP No.

Ast WALLACE
Burdekin Lake Property

SCALE 1/200

DRAWN BY

DATE

OVALBAY

DATE

MAP No. USA MAP 4