**DIAMOND DRILLING**

**TOWNSHIP:** ROBB TWP.  
**REPORT NO:** 44

**WORK PERFORMED FOR:** Aslan Exploration/Development Ltd.

**RECORDED HOLDER:** SAME AS ABOVE (xx)  
: OTHER ( )

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<th>CLAIM NO.</th>
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<th>FOOTAGE</th>
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<td>Nov/88</td>
<td>(1)(2)</td>
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<td></td>
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<td>440.0m</td>
<td>Nov/88</td>
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<td>101.0m</td>
<td>Nov/88</td>
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**NOTES:**  
(1) # W8906.506, filed Nov/89  
(2) comparable to OMEM report OM68-5-I-262  
Aslan Exploration Dev. Ltd.
REPORT ON THE 1988 DIAMOND DRILLING PROGRAM
ON
THE
ASLAN EXPLORATION
ROBB-JAMIESON TOWNSHIPS CLAIM BLOCK
PORCUPINE AREA, ONTARIO

by

John L. Kirwan
MSc PhD FRGS FGAC PEng

Earth Resource Associates
1111 Government Road,
Porcupine, Ontario
P.O. Box 2150,
TIMMINS, Ontario, P4N 7X8
705 235-2777

November 20, 1988
SUMMARY

The Aslan claim block consists of 30 unpatented mining claims in Robb and Jamieson Township that have received long-term attention from major mining companies, mainly in a hunt for base metals mineralization. The main appeal for this sort of mineralization has been the presence of a copper showing on the property, the proximity of the ground to old producing mines, and its presence in a structural dome with known base metals and gold association. More recently attention has attached to the ground because of its potential for containing one or more viable deposits of gold mineralization. This potential is indicated, on the property itself by a series of gold anomalies in basal till located near the middle of the property, and nearby by a) the occurrence of a piece of gold-bearing float some half mile south of the property which could have originated on it, b) a gold discovery on claims immediately to the north which exists in quartz veins trending towards the property, and c) an old but spectacular gold showing on ground about 400 feet to the southwest of the Aslan ground, which appears to occupy a fault plane which trends through this ground. The central part of the claims is occupied by a granitic plug whose margins are thought to be excellent areas for potential gold and base metals mineralization. Some of these areas of interest are shown on the sketch map on page 3 below.

In late 1988 the management of Aslan Exploration decided to put down 3 short drill holes for a total length of 840 feet (256 metres) in the north central area of the claims so as to test for gold mineralization a) southward from the showing to the north, b) in the vicinity of the basal till anomalies, and c) in the contact phase of the granite. None of these holes was successful: the first contained maximum assays of 0.001 ounces of gold to the ton, the second collared in diabase, a rock considered to have very little economic potential, and the third was too short to reach the target area.

In the writer's opinion these holes neither enhance nor downgrade the property. The very appealing granitic contacts remain undrilled, the fault plane containing the old gold showing near the southern part of the property remains unexplored, and the source of the gold anomalies near the middle of the property remains untraced.

Recommendations are made to conduct further drilling in these interesting areas and to perform additional basal till sampling so as to help define the source of the till anomalies. Further compilation of data and much more detailed geophysical surveys are also recommended for the purpose of forming a framework on which to base further exploration. Acquisition of additional ground both northward and southwestward, to cover both areas of nearby gold mineralization in place, is also desirable.

The ground remains one of exceptional appeal as a target for the hunt for economic gold mineralization in the Timmins area.
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   Log: DDH H-2
   Log: DDH H-3
DECLARATION at end of Appendix

FIGURES

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Figure 3: Diamond Drill Hole Locations,
   at end of appendix.

This report consists of a title page plus
two pages numbered i and ii as a Summary
and Table of Contents, followed by 9 num-
ered pages plus 4 pages of Appendix and a
Declaration, for a total of 17 pages.
INTRODUCTION

This report concerns a block of ground situated in the eastern part of Robb Township and the western part of Jamieson Township in the Porcupine Mining Division, District of Cochrane, Ontario, Canada. The ground consists of 30 contiguous, unpatented, mining claims having an area of 1200 acres, more or less, 26 of the claims being in Robb Township, and the remaining 6 being in Jamieson Township which adjoins Robb to the east. The general location of the area is shown in Figure 1, page 2 below, and the distribution of the claims is shown in Figure 2, page 3.
Figure 1: Location of the Property Area in Northeastern Ontario
Figure 2: Distribution of the Aslan Exploration mining claims in Robb and Jamieson Townships, Ontario. Photoreproduced from the Ontario Ministry of Natural Resources claim maps for the area, Sheets M309 and G3986, dated October 15 and November 24, 1987, respectively. Scale, 1" = ½ mi.

The 1988 Diamond Drilling was done on claim P854457 (arrow).
THE CLAIMS

The 30 mining claims which constitute the subject property are numbered as follows (see Figure 2 above):

a. In Robb Township:
   - P.854453
   - P.854454
   - P.854455
   - P.854456
   - P.854457
   - P.854458
   - P.854463
   - P.854464
   - P.854465
   - P.854466
   - P.854467
   - P.854468
   - P.854469
   - P.894647
   - P.894648
   - P.894649
   - P.894650
   - P.894651
   - P.894652
   - P.894653
   - P.894654
   - P.894655
   - P.894656
   - P.894657

b. In Jamieson Township
   - P.854459, being the SW 1/4 Lot 12 Concession II, Jamieson Twp.
   - P.854460, being the NW 1/4 Lot 12 Concession II, Jamieson Twp.
   - P.854461, being the SW 1/4 Lot 12 Concession II, Jamieson Twp.
   - P.854470, being the SE 1/4 Lot 12 Concession II, Jamieson Twp.
   - P.854471, being the NE 1/4 Lot 12 Concession II, Jamieson Twp.
   - P.854472, being the NE 1/4 Lot 12 Concession II, Jamieson Twp.

The writer knows of no liens, cautions, contracts, or other restrictions that would prevent the present holders of the claims from conducting mineral exploration on the ground with a view to discovering, developing, and mining one or more deposits of economic minerals thereon. The present report is being made with the purpose of describing the results of a program of diamond drilling conducted on the ground in November, 1988.

EARTH RESOURCE ASSOCIATES (ERA)

JOHN L. KIRWAN
The claims, which are about 25 miles (40 km) west of Timmins, may be reached by paved highway number 576 which skirts the southern and western part of the ground.

ECONOMIC POTENTIAL

A report dated December 8, 1987, by J.L. Kirwan entitled "The Asian Exploration Robb-Jamieson Townships Claim Block, Porcupine Area, Ontario" describes the history of exploration and economic appeal of the present ground. In general, this is:

a. the presence of the ground within the Kamiskotia structural dome in which are situated several past producers in base metals and important showings, notably the Kam Kotia Mine, the Jamieson Mine, the Genex deposit, and the Jameland Mine. All but the Genex are within 3 kilometers of the property boundaries.

b. the nearby presence of gold mineralization, or indicators of gold mineralization, including
   i. the Christmas Lake gold-bearing glacial float to the south, indicating a bedrock source which could be on the present ground.
   ii. the old Lally Mine, about 10 kilometers to the south,
   iii. the existence of a gold occurrence on adjoining patented claims to the north, and
   iv. the presence of gold showings on claims adjoining the south property line within an interpreted fault which passes through the present ground.

c. an indicator on the present ground of the nearby presence of gold mineralization as shown by anomalous gold values in glacial till, and by anomalous values in the metal barium in nearby bedrock as reported by the present owners of the ground,

d. the presence on the ground of a granitic plug, locally porphyritic, which the writer believes could be the source of gold mineralization on nearby ground, and potentially on the ground under discussion, and,

e. the existence of a copper-bearing showing on the present ground immediately to the east of the present drilling.

Also, the writer is aware of geophysical evidence that the area along the northern flank of the granite contains a major fault zone of the sort that has been prospected successfully for gold elsewhere in the Timmins area. Another, parallel, fault is marked on OGS map P694 passing through the gold showing SW of the ground and continuing through the most southerly of the Asian claims.
THE 1988 DRILLING

From the foregoing, it is apparent that the most promising areas for diamond drilling would be:

a. along the line connecting the important gold showings near the southern boundary of the ground,

b. northward from the basal till gold anomalies near the northern part of the ground,

c. in the vicinity of the mineral showing mentioned in e. above,

d. in areas where the mineralization mentioned in b.iii above might extend onto the present ground, and

e. along the contact of the granitic body within the claim block.

For financial reasons, Asian Exploration was limited to about 1000 feet (300 metres) of diamond drilling, and the management decided to use this entirely on claim P854457 where mineral showings, glacial till anomalies, the nearby presence of the granitic contact, and the possibility of on-strike continuity of mineralization from the north might be expected.

RESULTS

The first drill hole was drilled at an azimuth of 330° and an inclination of -60° so as to intersect possible extensions of mineralization from the north and, at the same time, to cut bedrock northward from the glacial till anomalies. This hole was stopped at 107 metres without encountering the sought-for targets, and of the 9 samples of various zones from this hole which were sent for assay, none returned a value over 0.001 ounces of gold per ton. It is felt that all areas within the drill hole of potential for mineralization (eg. breccias, sulfide-bearing zones, areas of silicification, quartz veins) were adequately sampled and that the drill hole demonstrated that no bedrock source of gold mineralization was found along its path.

The second drill hole, H-2, was put down southward from the above, and drilled at an azimuth of 180° and an inclination of -60° so as to cut under and westward from the area of copper mineralization already known to exist on the property. This hole collared in a
diabase dike and was stopped at 44 metres as having little chance of success in that material. Curiously enough, this diabase was nor located in the magnetometer surveys available on the ground, probably because of its narrowness coupled with the crudeness of the survey which was conducted on lines 400 feet apart with readings at 100 foot intervals. A single sample from this hole assayed 0.001 opt Au.

The third drill hole, H-3, was drilled at 210° with an inclination of -52° and was designed to pass under the known surface showings and continue so as to intersect the granitic contact. For financial reasons the hole was stopped at 101 metres without having reached its target area. Some 13 samples taken from this core, representing the various types of mineralization, alteration, and structure observed in the logging, all returned assays of 0.001 ounces of gold to the ton, values that are considered to be too low to indicate potential mineralization to occur along the path of the hole.

RECOMMENDATIONS

None of the targets sought were adequately tested in the current drilling. Most particularly, the gold showings near the southern part of the ground remain unexplored, and the contact of the granite has not been tested.

If drilling is to be continued, these two areas should receive first priority attention.

A second row of basal till sample holes should be put down on the ground parallel with but about 1000 feet northward from, those already completed, so as to attempt to obtain a cutoff northward of the indicated anomalies in order to narrow and limit the area of ground to be covered by blind drilling.

Geophysical surveys should be conducted on lines 100, instead of 400 feet, apart, and readings taken every 50 or 25 feet instead of every 100 feet, especially for magnetometer surveys.

A thorough compilation should be made of all previous work on the ground at a uniform scale so as to serve as a framework on which
to build an understanding of the ground and conduct exploration on it.

The writer remains of the opinion that the present property presents a first-class target for the discovery of metallic gold mineralization in economic concentrations.

At Timmins, Ontario,
November 20, 1988

Respectfully submitted,

EARTH RESOURCE ASSOCIATES (ERA)  

JOHN L. KIRWAN
APPENDIX

Diamod Drill Logs for Holes H-1, H-2 and H-3, and a sketch map to show the locations of these holes on claim P854457.
LOCATION: 800'S and 640'W of No. 1 post of P854457. This No. 1 post is at the 8 mile post on the Robb-Jamieson township line.

BRADLEY's FOREMAN: None

DATE: November 9, 1988

FOOTAGE | DESCRIPTION OF CORE | SAMPLE NUMBER | ASSAYS
--- | --- | --- | ---
0-19 | OVERBURDEN | K145 | 0.001 OzAu/t
19-107 | BASALT: Fine-grained (locally medium-grained) mafic rock made up of 40% saussuritized feldspars and 60% black hornblende with minor quartz, sometimes to 10% of rock. Local "goose eggs" of green feldspar 3-5 cm in size (eg from 19-30m). Pyrite present throughout, locally as high as 10%, such as at 33%, 37.8, 39%, 66%, 61 & 54%; minor cpy with popy in vein at 83 and 54m. Silicification as hard aphanitic light green zones at 24%, 25%, 41%, and 61m. Breccias at 53.8, 61.8, 62, 66%, 58 (latter 3 hairline) and 89% (quartzose). Goose egg zones: 19-30, 74-89, 101-104m. Quartz veinlets throughout the hole, commonly 4mm or so, but occas. to 1cm thick. Layering at 73-74m at 70° to core axis; at 40m (streaky quartz and pyrite at 10° to ca; common vague banding at 30° to core at various places, such as at 68, 94m.) -Layering at 73%m is well ordered and may be of sedimentary origin.
107m | END OF HOLE | | |

SAMPLES: 24%m for 18", silicification with pink zones K145 0.001
continuation of above for 30", basalt with 5% pyrite K146 0.001
39%m for 24", basalt with 10% streaky pyrite K147 0.001
39%m for 30", black pyritiferous (sedimentary?) zone K148 0.001
62m for 12"-Breccia K149 0.001
67%m for 12"- Quartzose shear zone K150 0.001
69%m mafic basalt for whole rock analysis K151 0.001
39%m sedimentary (?) layer for whole rock analysis K152 0.001
83%m felsic unit for whole rock analysis K153 0.001
### DIAMOND DRILL LOG

**LOCATION:** 975'S and 630'W of No.1 post of claim P854457. This No.1 post is at the 8 mile post on the Robb-Jamieson township line.

**Drilling Company:** Bradley's

**Foreman:** J.L. Kirwan

**Core Size:** BQ

**Core Stored At:** Hunter Minesite

**Logged By:** J.L. Kirwan

**Date:** November 10, 1988

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<td>10-36*</td>
<td>DIABASE: Medium-grained saussuritized feldspar with diabasic or ophitic texture with ferromagnesians (pyroxene with minor hornblende, 60%); local coarse-grained zones; Thin veinlets, quartz or calcite at 40-50° to core axis. At 21m 1&quot;QV at 40°; 28m a 1&quot;QV at 45°; at 29m pyrite with quartz vein; at 36m, compositional layering. Lower contact at 45-50° to core axis through 12&quot; aphanitic material, probably chill.</td>
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<td>36*-44</td>
<td>BASALT: fine-grained (locally medium-grained) equigranular to diabasic-textured mafic rock with greenish alteration throughout. A few fine QV's at 70-90° to core axis.</td>
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<td>44m</td>
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**Samples**

A 4" specimen taken at 17m of fresh diabase for whole rock analysis

**Sample Number:** K154

**Assays:** 0.001 OzAu/t

**Grid Reference:** 60'E of 0+80N on XL 40E

**TOWNSHIP:** ROBB

**CLAIM:** P854457

**AZIMUTH:** 180°

**DIP ANGLE:** -60°
# Diamond Drill Log

**Location:** 1280° S and 500° W of No. 1 Post, Claim P854457. This No. 1 post coincides with the 8 Mile Post on the Robb-Jamieson Township Boundary Line.

**Drilling Company:**
- **Foreman:** BRADLEY
- **Dip Tests:** None
- **Core Stored At:** Hunter Minesite
- **Logged By:** J.L. Kirwan
- **Date:** November 12, 1988

**Grid Reference:**
- **Township:** ROBB
- **Claim:** P854457
- **AZIMUTH:** 210°
- **Dip Angle:** -52°

**Property:** ASLAN-ROBB TOWNSHIP

### Description of Core

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**Overburden:**
- Fine-grained dark green to black, locally spheriolitic and streaked with epidotized veinlets at 45-80° to core axis; vague lighter green siliceous zones (eg at 13m). Disseminated pyrite about 1% throughout.

**Basalt:**
- Fine- to Medium-grained equigranular assemblage of saussuritized feldspar (40%) and hornblende with cores of pyroxene (60%); local epidotized zones and nearby whitening of feldspars with local pink staining due to extreme hydrothermal alteration (eg at 45m 852.8m).

**Gabbro:**
- Structureless, equigranular 60% Feldspar and 40% ferromagnesians.
- Pink veinlets at 65%, 78km.
- Epidotized Zones at 74% (with 3"QV), 84%m.
- Quartz Vein, ¾" at 80.6m; Clayey Gouge at 90%m.
- Quartzose zone at 89%m.

**The rock is locally medium-grained and, being structureless, may be intrusive (ie. Gabbro) Analysis:**
- At 96%: 2, ¾" QV's at 45° to core K164 0.001
- At 89%: Shattered quartzose zone K163 0.001

**Assays:**
- At 59%m 2" cher Vein K159 0.001
- At 72%m 6" epidote zone K160 0.001
- At 74% 3" epidote-quartz zone K161 0.001
- At 90%: Gouge + qtz-epidote 12" K162 0.001
- At 34m: Gabbro for Whole Rock K165 0.001
- At 75%m Basalt for Whole Rock analysis K166 0.001
- At 81m a 4" Quartz Vein at 30° to core K167 0.001
DECLARATION

I, John Laurence Kirwan, of the City of Timmins, Province of Ontario, Canada, and of the Town of Centre Harbor, State of New Hampshire, United States of America, state:

1. that I am a practising Consulting Geologist with offices at 1111 Government Road, Porcupine, Ontario, and at Knockdoe, Old Meredith Road, Centre Harbor, NH.

2. that I am President of Earth Resource Associates which was incorporated in the Province of Ontario in 1976 as John L. Kirwan and Associates Limited.

3. that I have practised my profession as Consulting Geologist continuously since 1972 and as Geologist continuously since 1961.

4. that I am a graduate from Carleton University in Canada with the degree of Bachelor of Science in Geology and Mathematics and from the University of London in England with the degrees of Master of Science and Doctor of Philosophy, both in Geology.

5. that I am a Registered Professional Engineer in the Province of Ontario and a licensed Professional Engineer in the State of New Hampshire and that my license to practise my profession in either jurisdiction is not now, and never has been, in a state of suspension or revocation.

6. that I am a Life Fellow of the Geological Association of Canada, of the Royal Geographical Society, and of the Royal Society of Antiquaries of Ireland, and have been elected a Fellow, Associate, or Member of other professional associations in Canada, England, the USA, and Brazil.

7. that I am familiar with the property in question, having visited it in the field and consulted the relevant published and unpublished material quoted in this report.

8. that the opinions expressed in this report are my own and have not been influenced by other parties or monetary considerations, and

9. that I do not now have, nor do I anticipate receiving, any direct or indirect beneficiary interest in the property.

Respectfully submitted,

[Signature]

John L. Kirwan

EARTH RESOURCE ASSOCIATES (ERA)  JOHN L. KIRWAN
### Summary of Work Performance and Distribution of Credits

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All the work was performed on Mining Claim(s): **P 854457**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

**Certification Verifying Report of Work**

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

Name and Postal Address of Person Certifying: **Andre Tansey, 244 Laurentian Cr., Timmins P4R 159**

Date Certified: **Feb 2, 1989**

Certified by (Signature): **Andre Tansey**

Table of Information/Attachments Required by the Mining Recorder

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NOTES

400° Surface Rights Reservation along the shores of all lakes and rivers.
