TRENCH REPORT

for

ADRIAN TWP. PROJECT

N.T.S. 52 A/5
Latitude 48-26' N  Longitude 89-48' E

By

RJK Explorations Ltd. and

GLR Resources Inc.

2.22830

By D. Maclean

January 11, 2002
# TABLE OF CONTENTS

1.0 INTRODUCTION .................................................................................................... 1
2.0 LOCATION and ACCESS ....................................................................................... 1
3.0 CLAIM STATUS .................................................................................................... 1
4.0 HISTORICAL WORK .............................................................................................. 2
5.0 REGIONAL GEOLOGY ........................................................................................... 2
6.0 LOCAL GEOLOGY .................................................................................................. 3
7.0 ROCK TYPES ........................................................................................................... 3
8.0 TRENCHES ............................................................................................................. 3 - 4
9.0 DISCUSSION of ASSAY RESULTS ....................................................................... 4
10. CONCLUSIONS and RECOMMENDATIONS ......................................................... 4
11. REFERENCES ......................................................................................................... 5

STATEMENT of QUALIFICATIONS

LIST of FIGURES - 1. LOCATION MAP

- 2. CLAIM LOCATION MAP
- 3. TRENCH LOCATION MAP

LIST of TABLES - 1. SAMPLE DESCRIPTIONS

- 2. ASSAY CERTIFICATES
- 3. GEOLOGICAL LEGEND and SYMBOLS

LIST of MAPS - 1. L4900E TRENCH

- 2. L4800E TRENCH
Figure 1. Location map of the area.
1.0 INTRODUCTION

A trenching program was conducted in October, 2001 to find the source of a zinc geochemical
anomaly and to identify the source of an HLEM conductor with an isolated magnetic feature.
The following is the results of this exploratory work.

2.0 LOCATION and ACCESS

The project are can be reached from Thunder Bay via Highway #11/17 west to Kakabeka Falls to
Hwy # 590 on the west end of Kakabeka Falls. Take Hwy # 590 for 15 km. to the Strom’s Road and
then 3 kilometers to a seasonal bush road accessed by quad-runner or ski-doo, this accesses the east
end of the property.

To access the north portion of the property take the Adrian Lake Road 3 kilometers past the
Strom’s Road on Hwy # 590. Take the Adrian Lake Road to a junction at the south side of Adrian
Lake and travel east on a seasonal road from here to access the property. See location map for more
details.

3.0 CLAIM STATUS

The property is located in Adrian Twp. (sheet G-640) and Conmee Twp. (sheet G-647),
Thunder Bay Mining Division and consists of 9 mining claims totaling 108 units.

The following is a list of these claims :-

Adrian Twp. - TB1209591 16 units
  - TB1209592 16 units
  - TB1187546 8 units
  - TB1187547 8 units
  - TB1187569 16 units
  - TB1187570 16 units
  - TB1246744 16 units

Conmee Twp. - TB1187495 12 units

See figures 2 and 3 for claim outline.
CLAIM LOCATION MAP
SHOWING PROPERTY GRIDS
STARES / CALVERT PROPERTY
N.W., ONTARIO

Figure 2
ADRIAN TWP
MARKS TWP
ADRIAN LAKE
PROPERTY
TRENCH L 4900
TRENCH L 4800
RJK EXPLORATIONS LTD.
GLR RESOURCES INC.
ADRIAN TOWNSHIP
ADRIAN LAKE PROPERTY
N.W., ONTARIO
4.0 HISTORICAL WORK

The area has been under explored over the past 40 years with only a few exploration programs on record in government files.

The following is a list of work recorded:

- 1962 - ODM / GSC - Aeromagnetic survey (Map # 2096G)

- 1962 - Hanna Mining Co. (Geological and Magnetics survey)

- 1967 - Noranda Exploration Co. Ltd. (Ground magnetics and HLEM)


- 1995 - O.G.S. - Regional Geological Survey, Report # 295 (Marks, Adrian and Sackville)


5.0 REGIONAL GEOLOGY

The property is mainly underlain by rocks of the Shebandowan Greenstone Belt within the Wawa Subprovince of the Superior Province which is fault bounded to the north by metasedimentary and felsic intrusive rocks of the Quetico Subprovince and unconformably overlain to the south by Paleoproterozoic metasedimentary rocks of the Animikie Group (Gunflint and Rove Formations). The Shebandowan Greenstone Belt can be subdivided into two contrasting packages of metasedimentary and metavolcanic rocks. These include an older suite of mafic to felsic metavolcanic rocks (Burchell and Greenwater assemblages) and the other younger suite is a combination of metasedimentary and metavolcanic rocks (Shebandowan assemblage).

The area is cut by the northwest trending Crayfish Creek Fault and other related faults which were possibly reactivated during subsequent tectonic events. Several ages of diabase dikes trend northerly through the area.

The metamorphic grade of the supracrustal rocks is lower to middle greenschist facies. Some contact metamorphism is evident near intrusions.
6.0 LOCAL GEOLOGY

The claim group is underlain by the Shebandowan assemblage and the older Greenwater assemblage of the Shebandowan Greenstone Belt. The main rock types are sequences of chemical and clastic metasedimentary rocks and interlayered intermediate metavolcanic rocks with minor felsic metavolcanic rocks. These have been intruded by dikes of diabase, gabbro or lamprophyre composition trending in a northerly direction.

7.0 ROCK TYPES

Metavolcanics

(2a) Intermediate Volcanic - Fine grained, medium greyish-green and massive.

Metasediments

(4d) Graphitic Argillite / Argillite - Fine grained, dark greyish-black to black, well bedded, commonly well laminated and strongly graphitic. Argillite is found in lesser quantities as fine grained, dark green, weak to well bedded. The strong graphitic unit is associated with HLEM conductors.

(cht) Chert - A fine grained, white - light grey to lesser dark grey to greenish-grey and usually with a fine, granular texture. Chert breccia was found on L 4900E with pyritic rimming.

Intrusives

(9a) Lamprophyre - Medium grained, dark greyish-green with moderately strong biotite.

8.0 TRENCHES

1. L4900E Trench - The purpose of this trench was to find the source of a zinc soil geochemical anomaly and to explain the HLEM conductor and an isolated magnetic feature. The trench exposed interbedded graphitic argillite and chert beds with various degrees of pyrite and lesser pyrrhotite throughout. The pyrite varied from trace to 40% and the pyrrhotite was only found around 4635N as 5% finely disseminated, this pyrrhotite is probably the magnetic feature? Near the south end of the trench chalcopyrite was spotted up to 1% locally and several specks of sphalerite. This trench did not
go far enough south to cover the zinc geochem anomalies at 4550N and 4500N.

2. L4800E Trench - The purpose of this trench was to follow up to the west on the same conductor system and explain the wider HLEM conductor. The trench intersected much less sulfides and an increase in the graphitic component of the argillites and much more extensive. The chert is less interbedded on a small scale than in L4900E Trench. The south end of the trench ends in a massive intermediate volcanic while the north end is in argillites. The only rocks of interest in this trench are a five meter wide section of chert breccia with up to 20% vuggy pyrite and a bleb of chalcopyrite, no significant assays were encountered.

9.0 DISCUSSION OF ASSAY RESULTS

No significant assay results were encountered from trench sampling. The trench on L4900E had values as high as 0.05 g/t Au, 0.008% Cu and 0.054% Zn, only the Zn is considered anomalous. L4800E trench had very little worthwhile sampling and low values of 0.015% Cu and 0.031% Zn were the best values.

10.0 CONCLUSIONS and RECOMMENDATIONS

This small trenching program has only tested a small portion of the property. Observing from geological mapping, geochemical results and geophysical results more targets need to be tested to fully evaluate the potential of the property. Felsic volcanics were found on the property and numerous boulders were found north of trench 4800E indicating a possible near bedrock source.

The Zn soil geochemical anomalies on L4900E at 4500N and 4550N with values of 260 ppm and 376 ppm Zn may be at or close to bedrock source due to the shallow overburden found nearby and should be trenched.

Targets that should be looked at are flanking, isolated conductors on the perimeter of the folded sedimentary package and test contacts associated with felsic to intermediate volcanics.

The overburden cover in the area in most cases appears to enable testing these targets, a preliminary check of all sites would evaluate the validity of this recommendation.
11.0 REFERENCES

1991 - A.E.M. Survey, Shebandowan Area, O.G.S. Map # 81590 at a scale of 1: 20,000

1995 - Rogers, M.C. and Berger, B.R. , Precambrian Geology, Adrian, Marks, Sackville, Aldina and Duckworth Townships, Ontario Geological Survey, Report # 295

1999 - Bajc, A.F., Results of regional humus and till sampling in the eastern part of the Shebandowan Greenstone Belt, Northwestern Ontario; Ontario Geological Survey, Open File Report # 5993.
STATEMENT OF QUALIFICATIONS
CERTIFICATE OF QUALIFICATIONS

I, Dave Maclean do hereby certify that:

- I reside at 176 Skyline Avenue, Thunder Bay, Ontario P7B 6K6
- I have been in mineral exploration since 1976
- I am a graduate of the Haileybury School of Mines (Mining Engineering Technology, 1973)
- I have not received, directly or indirectly, or expect to receive any interest in the company and its properties.

Signature: ___________________________

Name: _______________________________
TABLE 1

SAMPLE DESCRIPTIONS
<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#58662</td>
<td>4900E / 4627.5N</td>
<td>F.g., white, fine granular, recrystallized chert with 5-10% crystalline py blebs.</td>
</tr>
<tr>
<td>#58663</td>
<td>4900E / 4628.5N</td>
<td>F.g., white, fine granular, recrystallized chert with 5% crystalline py blebs.</td>
</tr>
<tr>
<td>#58701</td>
<td>4900E / 4603N</td>
<td>Graphitic argillite interbedded with chert, tr - 3% py, tr cpy &amp; sph.</td>
</tr>
<tr>
<td>#58702</td>
<td>4900E / 4604N</td>
<td>Interbedded graphitic argillite / chert, 1 -2% py, tr - 1% cpy</td>
</tr>
<tr>
<td>#58703</td>
<td>4900E / 4638.5N</td>
<td>Light greenish-grey chert with 5% fine disseminated po.</td>
</tr>
<tr>
<td>#58704</td>
<td>4900E / 4642.5N</td>
<td>Graphitic argillite with 20 - 40% lenticular / bleb py.</td>
</tr>
<tr>
<td>#58705</td>
<td>4900E / 4645N</td>
<td>Light grey granular chert with white - light green quartz veinlets, 2% py blebs.</td>
</tr>
<tr>
<td>#58706</td>
<td>4798.5E / 4523N</td>
<td>White - light grey chert with up to 20% vuggy py and 1 bleb of cpy.</td>
</tr>
<tr>
<td>#58707</td>
<td>4800E / 4666.5N</td>
<td>White - light grey chert with 5% crystalline pyrite, red hematite in seams with py.</td>
</tr>
<tr>
<td>#58708</td>
<td>4800E / 4588.5N</td>
<td>White chert with 25% py blebs.</td>
</tr>
</tbody>
</table>
TABLE 2

ASSAY CERTIFICATES
**Assay Certificate**

**Company:** RJK EXPL LTD GLR RESOURCES INC  
**Project:** Aldina  
**Analyst:** D. McLean G. Kasner  
**Date:** NOV-20-01

We hereby certify the following Assay of 8 Rock samples submitted NOV-15-01 by.

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Au  g/tonne</th>
<th>Au Check g/tonne</th>
<th>Ag  g/tonne</th>
<th>Cu  %</th>
<th>Pb  %</th>
<th>Zn  %</th>
</tr>
</thead>
<tbody>
<tr>
<td>58701</td>
<td>0.01</td>
<td>-</td>
<td>0.2</td>
<td>0.005</td>
<td>0.001</td>
<td>0.011</td>
</tr>
<tr>
<td>58702</td>
<td>0.05</td>
<td>-</td>
<td>0.2</td>
<td>0.003</td>
<td>0.001</td>
<td>0.019</td>
</tr>
<tr>
<td>58703</td>
<td>Nil</td>
<td>-</td>
<td>0.1</td>
<td>0.001</td>
<td>0.001</td>
<td>0.005</td>
</tr>
<tr>
<td>58704</td>
<td>0.05</td>
<td>0.05</td>
<td>0.2</td>
<td>0.004</td>
<td>0.001</td>
<td>0.012</td>
</tr>
<tr>
<td>58705</td>
<td>0.01</td>
<td>-</td>
<td>0.1</td>
<td>0.008</td>
<td>0.001</td>
<td>0.054</td>
</tr>
<tr>
<td>58706</td>
<td>Nil</td>
<td>-</td>
<td>0.1</td>
<td>0.001</td>
<td>0.001</td>
<td>0.002</td>
</tr>
<tr>
<td>58707</td>
<td>Nil</td>
<td>-</td>
<td>0.2</td>
<td>0.015</td>
<td>0.001</td>
<td>0.031</td>
</tr>
<tr>
<td>58708</td>
<td>Nil</td>
<td>-</td>
<td>0.2</td>
<td>0.011</td>
<td>0.001</td>
<td>0.004</td>
</tr>
</tbody>
</table>

One assay ton used for gold.

Certified by [Signature]

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0
**Assay Certificate**

**Company:** RJK EXPL LTD GLR RESOURCES INC  
**Project:** Aklima  
**Ass:** G. Kasner  

We hereby certify the following Assay of 19 Core/Rock samples submitted NOV-06-01 by:

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Au (g/tomue)</th>
<th>Ag (g/tomue)</th>
<th>As Check</th>
<th>Cu (%)</th>
<th>Pb (%)</th>
<th>Zn (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S8662</td>
<td>0.03</td>
<td>-</td>
<td>0.2</td>
<td>0.004</td>
<td>0.001</td>
<td>0.004</td>
</tr>
<tr>
<td>S8663</td>
<td>0.01</td>
<td>-</td>
<td>0.1</td>
<td>0.003</td>
<td>0.001</td>
<td>0.005</td>
</tr>
</tbody>
</table>

One assay ton portion used for Au.

Certified by [Signature]  

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244   Fax (705) 642-3300
TABLE 3

GEOLOGICAL LEGEND

and

SYMBOLS
GEOLOGICAL LEGEND

Mafic Metavolcanics (1)

a) massive
b) tuff
c) crystal tuff
d) feldspathic

Intermediate Metavolcanics (2)

a) massive
e) fine ash tuff
b) tuff
f) plagioclase phenocrystic
c) crystal tuff
g) dikes - hornblende / plagioclase phytic
d) bedded tuff

Felsic Metavolcanics (3)

a) massive
g) bedded tuff
b) tuff
h) lapilli tuff
c) qtz-eye tuff
i) tuffaceous sediment
d) qtz-cyc / feldspar tuff
j) agglomerate
e) fine ash tuff
k) cherty tuff
f) crystal tuff

Clastic Metasediments (4)

a) mafic sediments
b) greywacke / siltstone
c) sandstone
d) graphitic argillite / argillite
e) qtz biotite / biotite schist
f) arkosic

Chemical Metasediments (5)

a) oxide iron formation

Felsic / Intermediate Intrusives (7)

a) feldspar porphyry

Mafic Intrusives (8)

a) gabbro

ULTRAMAFIC INTRUSIVES (9)

a) lamprophre dike
SYMBOLS

v.f.g. - very fine grained
f.g. - fine grained
m.g. - medium grained
c.g. - coarse grained
tr - trace
wk - weak
mod. - moderate
str. - strong
qtz. - quartz
qtz-carb (q.c.) - quartz carbonate
carb - carbonate
chl - chlorite
bio - biotite
gt - garnet
qv - quartz vein
m. - metres
c.a. - core axis
mm. - millimetres
cm. - centimetres
ppm - parts per million
ppb - parts per billion

bx - breccia
mgt - magnetite
cht - chert
musc - muscovite
k-spar - potassic feldspar
feld - feldspar
ser - sericite
cpy - chalcopyrite
py - pyrite
sph - sphalerite
gal - galena
Au - gold
Ag - silver
sch - schist
Zn - zinc
Cu - copper
Pb - lead
## Work Report Summary

**Transaction No:** W0240.00139  
**Recording Date:** 2002-JAN-24  
**Approval Date:** 2002-JAN-29  
**Status:** APPROVED  
**Work Done from:** 2001-OCT-23  
**to:** 2001-NOV-11

### Client(s):

- 117399 CHATAWAY, ROBERT THOMAS
- 170369 MIDDAUGH, RICHARD DAVID
- 187972 RJK EXPLORATIONS LTD.
- 199481 SWIRE, RODNEY EARL
- 303542 MACISAAC, JONATHON JAMES

### Survey Type(s):

- PTRNCH

### Work Report Details:

<table>
<thead>
<tr>
<th>Claim#</th>
<th>Perform</th>
<th>Perform Approve</th>
<th>Applied</th>
<th>Applied Approve</th>
<th>Assign</th>
<th>Assign Approve</th>
<th>Reserve</th>
<th>Reserve Approve</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB 1187546</td>
<td>$0</td>
<td>$0</td>
<td>$3,200</td>
<td>$3,200</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>2004-JUL-23</td>
</tr>
<tr>
<td>TB 1187547</td>
<td>$0</td>
<td>$0</td>
<td>$3,200</td>
<td>$3,200</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>2004-JUL-23</td>
</tr>
<tr>
<td>TB 1209592</td>
<td>$7,377</td>
<td>$7,377</td>
<td>$0</td>
<td>$0</td>
<td>$7,377</td>
<td>7,377</td>
<td>$0</td>
<td>$0</td>
<td>2005-APR-27</td>
</tr>
<tr>
<td>TB 1246744</td>
<td>$0</td>
<td>$0</td>
<td>$977</td>
<td>$977</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>2003-JUL-23</td>
</tr>
</tbody>
</table>

**Total:**  
$7,377 | $7,377 | $7,377 | $7,377 | $7,377 | $0 | $0

Status of claim is based on information currently on record.
RJK EXPLORATIONS LTD.
4 AL WENDE AVENUE
P.O. BOX 546
KIRKLAND LAKE, ONTARIO
P2N 3J5 CANADA

Tel: (888) 415-9845
Fax: (877) 670-1555

Submission Number: 2.22830
Transaction Number(s): W0240.00139

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at steve.beneteau@ndm.gov.on.ca or by phone at (705) 670-5855.

Yours Sincerely,

Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist

Robert Thomas Chattaway
(Claim Holder)

Richard David Middaugh
(Claim Holder)

Rjk Explorations Ltd.
(Assessment Office)

Jonathon James Macisaac
(Claim Holder)

Assessment File Library

David B. Maclean
(Agent)

Rjk Explorations Ltd.
(Claim Holder)

Rodney Earl Swire
(Claim Holder)
### Table 1: Analytical Results

<table>
<thead>
<tr>
<th>Sample</th>
<th>Au (g/t)</th>
<th>Cu (%)</th>
<th>Pb (%)</th>
<th>Zn (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>58706</td>
<td>0.001</td>
<td>0.001</td>
<td>0.001</td>
<td>0.004</td>
</tr>
<tr>
<td>58707</td>
<td>0.015</td>
<td>0.015</td>
<td>0.015</td>
<td>0.015</td>
</tr>
<tr>
<td>58708</td>
<td>0.011</td>
<td>0.011</td>
<td>0.011</td>
<td>0.011</td>
</tr>
</tbody>
</table>

### Diagram Description

- **F.g., dark grey with minor white chert beds:**
  - 0.6 m deep
  - Weak rusty weathering
  - 1 m deep

- **Laminae:**
  - White to light greyish-green chert with minor 20-40% vuggy py, blebs of cpy
  - 0.6 m deep
  - Weak, strong rusty weathering
  - 1 m deep

- **Excavator Trail:**
  - 4625 m N
  - Interbedded white to light - dark grey chert with 4 d
  - Surfacial bx cemented by limonite
  - 4575 m N
  - Interbedded white - light grey - granular chert (f.g., black 4d, tr - 30% local fine crystalline to large cubic py)
  - White to light - dark grey chert with minor 4d, tr - 2% cubic py

- **Well Bedded:**
  - White - light grey chert, weak - mod rust
  - 4d, f.g., black, well bedded, strong graphite
  - 4550 m N
  - F.g., black, well bedded graphite

- **Well Bedded, Localized Massive py Bands:**
  - White - dark grey chert beds with minor 4d, ch x/l, tr - 3% py
  - White chert / 2a
  - White - light grey chert
  - Well fractured, 2a, f.g., medium greyish-green, tr / cpy

---

**RJK EXPLORATIONS LTD.**
**GLR RESOURCES INC.**
<table>
<thead>
<tr>
<th>Au/gt</th>
<th>Ag/gt</th>
<th>Cu %</th>
<th>Pb %</th>
<th>Zn %</th>
</tr>
</thead>
<tbody>
<tr>
<td>58701</td>
<td>0.01</td>
<td>0.2</td>
<td>0.005</td>
<td>0.001</td>
</tr>
<tr>
<td>58702</td>
<td>0.05</td>
<td>0.2</td>
<td>0.003</td>
<td>0.001</td>
</tr>
<tr>
<td>58703</td>
<td>Nil</td>
<td>0.1</td>
<td>0.001</td>
<td>0.001</td>
</tr>
<tr>
<td>58704</td>
<td>0.05</td>
<td>0.2</td>
<td>0.004</td>
<td>0.001</td>
</tr>
<tr>
<td>58705</td>
<td>0.01</td>
<td>0.1</td>
<td>0.008</td>
<td>0.001</td>
</tr>
</tbody>
</table>

**Rusty weathering**

- Rusty, weathered, dark greyish-green chert
- Interbedded white crystalline chert and dark green argillite (4d)
  - tr-1% py
- Interbedded white crystalline chert and dark green argillite (4d)
  - tr-1% py
- White - lt. grey chert/4d
  - 1-3% crystalline py
- Light grey granular chert with white light green
  - Qtz-veinlets, 2% py blebs 4d,
- White - lt. grey chert, tr-1% py
- Light greenish-grey chert
  - with 5% fine disseminated po
- 4d, chert
- White - lt. grey granular chert., tr -1% py
- White - lt. grey, granular chert.
  - 5% crystalline py, tr -1% cpy.

**Rusty weathering / patches of red hematite**

- Rusty weathering
- Rusty weathering
- Strong red hematite limonite staining
- White - light grey chert with 1-2% py
- Strong graphite
  - 1-2% py
- 4d, 3% py
- Chert bx - Fragments - white -
  - Light yellowy-brown, angular to mostly lenticular,
  - 1 cm diameter rimmed by fine crystalline py.
- 4d, chert (granular, white)
  - tr - 5% crystalline py
- 4d, chert, tr - 3% py, tr cpy / sph

**Azimuth of line @ 320 deg.**

---

**SCALE: 1:300**

---

**ADRIAN LAKE PROPERTY, ADRIAN TWP, N.W., ONTARIO**

---

**RJK EXPLORATIONS LTD.**

**GLR RESOURCES INC.**

---

**ADRIAN**

---

**230**