RESULTS of a MAGNETOMETER SURVEY on

CLAIMS 1184244 and 1184245

in FAIRLIE TWP., RED LAKE, ONTARIO

Iain F. Downie, P. Eng.
### MAPS

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INTRODUCTION

Discussed are the results of a magnetometer survey conducted on claims held under option by Wolfden Resources Inc. (WRI) from P. English of Red Lake, and located in Fairlie Twp. near Red Lake in N.W. Ontario. The work was conducted with the knowledge and approval of E.S. Downie, Pres., Wolfden Resources Inc.

PROPERTY

The property, subject of this report, consists of claims 1184244 and 5 of 16 and 12 units respectively or a theoretical total area of 448 Ha. In fact, the south boundary of 1184244 is irregular as it is attached to pre-existing claims to the south and so about 15 Ha. is lost leaving a practical total of 433 Ha. (241 Ha. in 1184244 rather than 256 Ha.) or closer to 27 units than 28.

LOCATION AND ACCESS

These claims lie in south, central Fairlie Twp., about 10 km. east of the town of Red Lake, Ont., and lie largely in Red Lake itself, encompassing some small islands and just touching mainland along the south boundary of 1184244.

Access is by water in summer, and by snowmobile in winter from Red Lake.

HISTORY

The Red Lake camp needs no introduction to Canadian geologists and probably to few from elsewhere. Major exploration has been ongoing for more than 60 years and production for more than 50. The Campbell Mine (Placer Dome) and the A.W. White Mine - “Dickenson” - (Gold Corp.) have been and are prolific producers.

Campbell keeps on producing, and keeps on expanding reserves that average well over 0.5 oz. Au/ton, and Dickenson which averaged better than 0.45 oz. in its early years but fell on harder times (<0.3 oz. Au/ton) in the 80’s, has rebounded with new discoveries and higher grades once more. Campbell gives every appearance of one day being the most prolific, single producer in Canadian history.
There are about a dozen other past producers, the better known being Cochenour and Madsen Red Lake. The latter, as of this month, becomes a producer once more.

GEOLOGY

The Red Lake greenstone belt too, needs no introduction to Canadian geologists. It consists of an Archean volcanic (largely mafic) belt with relatively minor felsic volcanics and quite minor sediments intruded by rocks varying from peridotites (serpentinite) to granite. The sequence has been subject to metamorphism to greenschist and amphibolite grade, and locally to massive carbonatisation.

The four major mines (see History) lie in mafic volcanics largely at greenschist grade with Madsen the exception. At Campbell there are minor ultramafic intrusives.

Most of the 14 primary producers are in mafic volcanic hosts. The McKenzie and the Howey are associated with silicic intrusives.

Gold at three of the four majors is associated with carbonate - carbonate/quartz veining ± arsenopyrite and at Dickenson ± pyrite/pyrrhotite lenses. Madsen gold is associated with pyrite/pyrrhotite lenses and disseminations.

The claims of concern to us are underlain by mafic volcanics intruded by mafic to ultramafic sills lying at the west end of the “Dome Stock” of granite to grano-diorite.

Just to the south the Humlin showing has recently been subjected to serious examination by Placer Dome (assess files: May, 1997). Consistent gold values are recovered along a few hundred metres and several metres to a few tens of metres in width - but erratic within this envelope: sufficient encouragement to warrant a recommendation for a substantial drill programme. The westward extension of this horizon traverses the S.W. corner of Cl. 1184244. Fifteen km. to the west in Todd Twp. (Rowan, Red Summit and Mount Jamie Mines) Placer Dome recently completed a drilling programme with rumours that results were far from discouraging - all of these lie within the Pipestone - St. Paul Bay deformation zone.

OGS Open File Report 5558 provides a good look at the Red Lake camp up to the mid-80’s and provides a list of references. Andrews, Corfuc, Lavigne and Durocher did outstanding
work in the 70's - 80's era, and Ferguson and Riley in the 60's - early 70's. The Pirie, Durocher, Wallace “Trip Guide Book No. 8” for the 1982 GAC-MAC meeting is an excellent reference.

WORK

The grid work and magnetic survey were carried out by Vytul Exploration Services of Thunder Bay, Ont. The line-cutting crew was supervised by S. Tenhunen and the magnetic survey performed by B. MacKay.

The grid consists of a base line 3.1 km. long with a tie-line at 8+00S from L.O. to 27+00W. (5.8 km. total), and cross lines of 25.4 km. 1.2 km. of tie-line and 0.8 km. of cross lines are off the claims. Final totals 24.6 km. of cross lines and 4.6 km. for base line and tie line. Cross lines are turned off at intervals of 100 m. and all lines (except tie lines) marked by pickets set at intervals of 25 m.

The mag. survey was run along all cross lines with a continuous reading, nuclear precession magnetometer (GSM-19) and readings taken at 12.5 m. intervals. Control for diurnal variation was provided by a base station at 0+00 on the base line - this unit is also a GSM-19, synchronised in time.

Each day the data from field instrument and base station are dumped into a computer, and applicable programmes provide “manipulation” to final corrected data per day, and final levelling from day to day. The data are forwarded to Pro-tech Drafting in La Ronge, SK., and K. Thach of Pro-Tech provides the final maps. These consist of contour maps with contours at intervals of 500nT., and maps of “postings” - readings - presented on plans at scale 1:5,000.

MAGNETICS

The general background appears to be at or just under 60K. nT. Where showing trends - south half of west part of Cl. 1184244 or lines 8W to 28W from 2S to 8S - the trends are at about 290°, the general trend of the volcanic stratigraphy in the vicinity. These trends probably represent mafic (gabbro) to ultramafic (peridotite) sills within the mafic volcanics as seen mapped.
on the mainland to the south and on islands within the grid coverage. The trend in the SW corner of Cl. 1184244 represents the extension of the ultramafic that hosts (?) the Humlin showing of Placer. The magnetics peak at more than 64K. nT. at 6+60S on L23W.

The rather erratic magnetics on claim 1184245 overlie mafic volcanics with minor interflow sediments.

The modest high (to 62.5 K nT.) at about 7+00S on lines 9 to 13W is coincident with mapped felsic volcanics - they probably contain minor magnetite.

The reasonably regular trend from 7+00S L.4W to 0+00 at 8W in all likelihood marks the margin of the Dome Stock (to the east). It is assumed that the slightly higher magnetics within the stock (east of the trend) denote minor concentrations of magnetite - less probably pyrrhotite - within contact phases of the granodiorite.

Mag. highs at about 4+00S, lines 10W to 13W and at about 3+00S, lines 20W to 22W are likely to define mafic/ultramafic sills. These with the trends in the S.W. corner of Cl. 1184244 present fine targets for exploration for potential gold deposits.

CONCLUSIONS

Magnetics have provided good definition of mafic/ultramafic sills in the west half of cl. 1184244. These warrant a few drill holes to test for gold potential.

The west edge (contact) of the Dome Stock appears to be quite well defined in the east half of the same claim. This is also a worthy target to look for a granodiorite hosted deposit similar to that of the McKenzie Mine (650,000 oz. Au.)
Report of Work Conducted After Recording Claim
Mining Act

Instructions:
- Please type or print.
- Refer to the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)

Personal Information collected on this form is... this collection should be directed to the Prov. Sudbury, Ontario, P3E 6A5, telephone (705) 524-2361.

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Ministry of Northern Development and Mines.
Ontario

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Recorded Holder(s)

PERRY ENGLISH
Box 494, RED LAKE, ONT.

Client No. 129617
Telephone No. 807-727-311

Mining Division
RED LAKE Township
FAIRLIE

M or G Plan No. G-373

Dates Work Performed
From: 21-04-97
To: 25-04-97

Work Performed (Check One Work Group Only)

Work Group

Geotechnical Survey -
Physical Work, Including Drilling, -
Rehabilitation -
Other Authorized Work -
Assays -
Assignment from Reserve -

Type
grid culling plus ground magnetic survey

Total Assessment Work Claimed on the Attached Statement of Costs
$ 12,028

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)

Name and Address of Person Certifying

Certification of Beneficial Interest * See Note No. 1 on reverse side

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.

Certification of Work Report

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

Name and Address of Person Certifying

Certification of Work Report

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

Name and Address of Person Certifying

For Office Use Only

Certified By

Date: 97/06/09

Recorded Holder or Agent (Signature)

RECEIVED
MINING LANDS BRANCH
JUN 20, 1997

RECEIVED
MINING LANDS BRANCH
JUN 16, 1997
Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (x) one of the following:

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 priorized on the attached appendix.

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

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc. with respect to the mining claims.

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**RECEIVED**

MINING LANDS BRANCH

JUN 20 1997

8/28 8
8/35 7
8/28 8
9/863 7
6/400 6

$4,000

4/165 4

8/184245 12
11/84244 16
August 25, 1997

PERRY VERN ENGLISH
P.O. BOX. 494
RED LAKE, Ontario
P0V-2M0

Dear Sir or Madam:

Subject: Submission Number: 2.17419

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

[Signature]

Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section
# Work Report Assessment Results

**Submission Number:** 2.17419

**Date Correspondence Sent:** August 25, 1997

**Assessor:** Steve Beneteau

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<td>FAIRLIE</td>
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**Section:**

14 Geophysical MAG

Note, in subsequent submissions please ensure a statement of cost accompanies the work report.

**Correspondence to:**

- Resident Geologist
- Red Lake, ON

**Recorded Holder(s) and/or Agent(s):**

- Iain F. Downie
- THUNDER BAY, ONTARIO, CANADA

**Assessment Files Library**

- Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

- PERRY VERN ENGLISH
- RED LAKE, Ontario
THE TOWNSHIP OF
FAIRLIE
DISTRICT OF
KENORA
(PATRICIA PORTION)
RED LAKE
MINING DIVISION
SCALE: 1-INCH-40 CHAINS

LEGEND
PATENTED LAND CROWN LAND SALE
CROWN LAND SALE LEASES
LOCATED LAND LICENSE OF OCCUPATION
MINING RIGHTS ONLY M.R.O.
SURFACE RIGHTS ONLY S.R.O.
ROADS IMPROVED ROADS
KING'S HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
CANCELLED

AREA WITHDRAWN FROM DISPOSITION
M.R.O. MINING RIGHTS ONLY
S.R.O. SURFACE RIGHTS ONLY
M.R.O. MINING AND SURFACE RIGHTS

FOREST ACTIVITY INFORMATION
THIS TOWNSHIP/AREA FALLS WITHIN THE RED LAKE CROWN
AND MAY BE SUBJECT TO FORESTING OPERATIONS
THE M.N.R. UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT:
P.O. BOX 5003
RED LAKE, ONTARIO POV 2MO
(807) 727-2253

THE CORPORATION OF THE TOWNSHIP OF
RED LAKE

2.17419
MAG

Ministry of Natural Resources
G-3731