Placer Dome (CLA) Limited
Campbell Mine
KRL 1209205 (Beatrice Peninsula South)
Surface Mapping and Lithogeochemical Sampling
Bateman Township, Ontario

May 2004

Yuri Dobrotin
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Summary and Conclusions

During May 2004, geological mapping and total of 17 whole rock lithogeochemical samples were taken and analyzed over claim KRL 1209205, located on Bateman Township, with the purpose to increase the knowledge of the geology and identify the vectoring of alteration and mineralization.

In conclusion, the 2004 mapping enhanced the understanding of the geology and lithogeochemical sampling became a basis of multi-element analysis to compare the property with the known deposits in the region.

Introduction

The claim KRL 1209205 (Beatrice Peninsula South) is located southeast from the Beatrice peninsula in the central portion of East Bay, Bateman Township, Kenora-Red Lake mining Division (Figure 1). During May of 2004, an exploration program, consisting of geological traversing, mapping and lithogeochemical sampling and analysis was conducted on claim KRL 1209205. The mapping was focused on two lithological units: tholeitic basalts presented on the eastern part of the claim and komatiitic basalt, outcropped along the shoreline.

Property

Claim KRL 1209205 consists of two (2) 16-hectare units. It was staked for Placer Dome (CLA) Ltd on June 01, 1994.

Location and Access

The property is located on the east side of East Bay, Bateman Township, Ontario, between latitudes 51°08'06" and 51°08'19" and longitude 93°42'13" and 93°42'56". Depending on the season, access can be made either via boat or snow machine from Red Lake or by traveling 10km north along Nungessor Road followed by a 100m western traverse to the boundary of the claim (Figure 2).

Private residence is situated on the property.

Previous Work

The first recorded work done in the area was surface exploration in 1933 under the direction of C.D. Chisholm and M.L. Bouzan (Horwood, 1940). In addition, surface work and drilling was conducted in 1936 and 1937. In 1941, Wilson Red Lake Gold
Mines Limited drilled four holes to locate the east contact of the Wilson granodiorite and the volcanic rocks (Huston, 1979). In 1945, Beatrice Red Lake Gold Mines Limited drilled six holes to examine the east and west contacts of the intrusive (Huston, 1979).

In 1980, Betos Management Limited conducted a proton magnetometer survey over the area and located several magnetic conductors associated with serpentinite (Huston, 1980). In 1982 and 1983 Penway Resources Limited drilled several holes in the area, five of which are located on claim KRL 1209205. These holes intersected basalt with quartz veins and stringers as well as quartz porphyry intrusive (Huston, 1982). The highest assay result was 1.03 g/t (0.03 oz/ton) gold (Au) over 1.22 meters (4.0 feet) in quartz porphyry.

During May 1996, approximately 2.7 kilometers of line cutting and ground magnetometer survey was conducted over this area by Placer Dome (CLA) Ltd.

In May 1999, a soil sample survey was completed over claim KRL 1209205. This survey consisted of 77 soil samples spaced at approximately 50 foot intervals, located along previously cut geophysics lines 80S, 84S, 88S, 92S and 96S. This survey consisted of 5,600 line feet. Some of these higher Au values correlate with the ground magnetics program conducted in May 1996, which outlined mafic/ultramafic contact.

**General Geology**

The property lies within the east-west (E-W) trending Red Lake greenstone belt of the Uchi Sub-province of the Archean Superior Province of the Canadian Shield. In the Red Lake area, the belt consists mainly of volcanic rocks with lesser amounts of clastic sedimentary rocks and is bounded on all sides by large batholiths (Figure 1). Beatrice peninsula granite intrusion is located 500 meters to the NW from the KRL 1209205 and built the Beatrice Peninsula. Large Walsh batholith is situated approximately 3 km to the SE from the claim. District Scale deformation zone, named the East Bay zone is a main structural feature of the area.

**Property Geology**

The property is underlain by mafic volcanics (massive and pillowed metabasalts) in the eastern portion, and by mafic to ultramafic volcanics with lesser amounts of intermediate to felsic volcanics, felsic intrusive and mafic intrusive in the western portion. Finely disseminated pyrite is present in the mafic volcanics along with an isolated locality of pyrrhotite.
Mapping and Whole Rock Lithogeochemical Sampling.

Pillowed metabasalt lavas predominantly developed on the eastern part of the claim. Individual pillows are well-visible on the outcrops (Fig. 3 and 5, sample 31055). There rocks host quartz veins up to 10 cm in thickness (strike Az. 110, dip 70NE, sample AA 31052), which were mapped and sampled (Fig. 4). Veins are developed discordant to the weak to moderate shear zone striking approximately north-south.

Distinguish iron-carbonate alteration was mapped on the outcrop presented by the massive metabasalt (Fig. 6, Sample AA 31055), mapped to the north-west from the sampling area AA 31051-31055.

Komatiitic, strongly sheared metabasalts were mapped and sampled along the shoreline (Fig. 7 and 9). Shear zone, striking Az. 345, dip 75SW is a part of the district-scale East Bay Deformation Zone, which plays a significant role to control gold mineralization. Komatiitic metabasalt contain up to 0.5% of pyrrhotite and alteration is presented by carbonate and amphibole. Six samples AA 31057 - AA 31061, AA 31063 were taken along the shoreline from the komatiitic metabasalts.

Felsic dikes are situated predominantly along the shear (deformation) zone, striking Az 40, dip 80NW (samples AA 31062 and AA31064).

Strongly-sheared metabasalt with up to 1% of pyrite and pyrrhotite mineralization were mapped and sampled (AA 31066, 31067) along the flank of the shear zone (Fig. 9).

Recommendations

Based on the 2004 work, it is recommended to compare the multi-element geochemical indexes with the precious metal deposits and their flanks in the Uchi Belt province. The distribution of the rock-forming and trace elements will indicate the similarities of the gold and platinum mineralization vectoring.
References

**Horwood, H.C. 1940:**

**Huston, C.D., 1979:**

**Huston, C.D., 1979:**

**Huston, C.D., 1982:**
Report on Diamond Drilling, Bateman Township Claims, Red Lake, Ontario for Penway Explorers Limited.

**Campbell, T.J., 1997:**

**Glen Kuntz, 1999:**
Certificate of Qualifications

I hereby certify that: Yuri Dobrotin

I have been a resident of Canada since 1996, and a Canadian Citizen since 2002.

I am a graduate of St. Petersburg University, Russia.

I have actively been engaged in Exploration Geology since 1979.

APGO # 0702

Signed at Balmertown, Ontario on the 02\textsuperscript{nd} of May, 2003

Yuri Dobrotin
District Geologists
Placer Dome (CLA) Ltd
Campbell Mine
Tholeiitic-Komatiitic Sequence
- Mafic & ultramafic metavolcanics
- Felsic metavolcanics
Calc-Alkaline Sequence
- Intermediate metavolcanics
- Chemical sediments
- Clastic sediments
- Felsic metavolcanics
- Mafic & ultramafic intrusives
- Felsic intrusives

Mines
1 A.W. White (Dickenson)
2 Campbell
3 Cochenour-Willans
4 McMarmac
\(\Delta\) Occurrences
5 Wilmar
6 Abine
7 McFinley

Figure 1. Location map (after A.J. Andrews, 1986)
Fig. 2  Claim Map.
Fig. 3 Geologic Map and Sample 2004 location.
Fig. 4  Quartz vein (sample AA 31052, left). Strike 110 deg, dip 70 deg NE, hosted in the weakly sheared and altered (Bt, Cb) pillowed metabasalts (sample AA 31053, right).

Fig. 5  Example of the pillowed (the pillow is well-visible in left low corner of the picture) metabasalts with fine pyrite mineralization (sample AA 31055). Narrow quartz vein is visible in the right upper corner of the picture.
Fig. 6  Massive iron-carbonate altered metabasalt (sample AA 31056)

Fig. 7  Strongly sheared komatiitic basalt with disseminated pyrrhotite. Strike 210 deg, dip 60 deg NW, sample AA 31057.
Fig. 8  Strongly sheared, (amphibol, carbonate) basalt with the pyrite and pyrrhotite disseminated mineralization, up to 1%. Strike 345 deg, dip 75 deg SW. Samples AA 31066 and AA 31067

Fig. 9  The claim KRL 1209205 shoreline. Sheared komatiite lavas are well-visible in the left low part of the picture. The small no-name island and the Biatrice peninsula (granite intrusion) are on the horizon.
Appendix 1

Beatrice Peninsula

Claim and Location Map
Appendix 2

Beatrice Peninsula

Map of Surface

Lithological Mapping and Sampling
Placer Dome (CLA) Limited
Campbell Mine
KRL 1209205 (Beatrice Peninsula South)
Surface Mapping and Lithogeochemical Sampling
Bateman Township, Ontario

Appendix 3

ALS Chemex

Analysis Certificates
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   CAMPBELL MINE
   PO BOX 10
   BALMERTOWN ON P0V 1C0

Page: 1
Date: 14-MAY-2004
Account: QDF

CERTIFICATE TB04026213

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INSTRUMENT

- XRF
- WST-SIM
- ICP-MS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: [Signature]

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Placer Dome (CLA) Limited
Campbell Mine
KRL 1209205 (Beatrice Peninsula South)
Surface Mapping and Lithogeochemical Sampling
Bateman Township, Ontario

Appendix 4

ALS Chemex

Invoices
# ALS CHEMEX

1160 Commerce St  
Thunder Bay Ontario  
P7E 6E9

**Workorder:** TB04026213infoC1  
**Client Code:** ODF  
**Invoice Date:** 2004-05-10 (SYSTEM)  
**Project:** 4846AR  
**PO Number:**  
**Quote:** Rush Au and ICO1/41  
**CPT:**  
**Terms:** Net 30 Days  
**Billing Entity:** ALSL  
**Discount:** 41

**Client:** Placer Dome North America  
**Address:** Campbell Mine  
PO Box 10  
Balmertown ON  
P0V 1C0 Canada  
**Phone:** +1 (807) 735-2075  
**Fax:** +1 (807) 735-5012

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SUBTOTAL $1168.56  
GST R100938885 (7%) $81.80  
PST ON (8%) $0.00  
TOTAL PAYABLE (CAD) $1250.36

Appendix 4
Work Report Summary

Transaction No: W0420.00789
Recording Date: 2004-MAY-27
Approval Date: 2004-JUN-02

Status: APPROVED
Work Done from: 2004-MAY-05
to: 2004-MAY-06

Client(s):

300210 PLACER DOME (CLA) LIMITED/PLACER DOME (CLA) LIMITEE

Survey Type(s):

ASSAY GEOL

Work Report Details:

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$3,250 $3,250 $3,127 $3,127 $0 $0 $123 $123

External Credits: $0

Reserve:

$123 Reserve of Work Report#: W0420.00789

$123 Total Remaining

Status of claim is based on information currently on record.
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,

Roy Denomme
Senior Manager(A), Mining Lands Section

Cc: Resident Geologist
   Placer Dome (Cla) Limited/Placer Dome (Cla) Limitee
   (Claim Holder)
   Judy Kacan
   (Agent)

Assessment File Library
   Placer Dome (Cla) Limited/Placer Dome (Cla) Limitee
   (Assessment Office)
General Information and Limitations
Land Tenure
Land Tenure Withdrawals

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

TOWNSHIP / AREA
ADMINISTRATIVE DISTRICTS / DIVISIONS
MINING DIVISION Red Lake
LAND TITLES/REGISTRY Division KENORA
Ministry of Natural Resources District RED LAKE

DATE / TIME OF ISSUE: Mon Jul 06 11:15:10 EOT 2004

TOWNSHIP AREA PLAN
BATEMAN
G-3741

2.27722
ASSAY
GEOL
Placer Dome Inc
Beatrice Peninsula
Surface Mapping
Rock Sampling
Claim 1209205
Scale: 1:5,000