



BCGold Corporation

2008 Geophysical Report on the Toe Property

Claims TOE 1 - 76
Grant Numbers YC 46628 – YC 46651
YC 46674 – YC 46709
YC 66548 – YC 66563

Owned by Shawn Ryan (100%)

Located in the Minto area
Whitehorse Mining District
NTS 115I/11

62⁰ 43' N
137⁰ 26' W

Prepared by
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Work performed
July 14th to August 4th, 2008

Abstract

The Toe property consists of 76 claims: TOE 1 - 76. The property is located about 90km northwest of Carmacks, Yukon in the Whitehorse Mining District. The claims are owned 100% by Shawn Ryan of Dawson City, YT and are under option to BCGold Corp. The property is underlain by early Jurassic foliated and non-foliated granitoid rocks of the Minto Pluton. A gradient array induced polarization survey was conducted in July and August 2008. The survey outlined several linear anomalies. Geological mapping and prospecting and a possible tighter-spaced follow up induced polarization survey is recommended to define drill targets.

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1.0 Introduction and Terms of reference

The Toe property consists of 76 claims. The Toe property is owned 100% by Shawn Ryan, of Dawson City, YT subject to an option agreement with BCGold Corp (“BCGold”) whereby BCGold can earn a 100% in the Toe property as part of a larger set of claims located in the Carmacks copper-gold belt.

This report describes work completed on July 19th – 24th, 2008 on the TOE 1-76 claims to comply with reporting requirements under the Yukon Quartz Mining Act.

2.0 Reliance on other experts

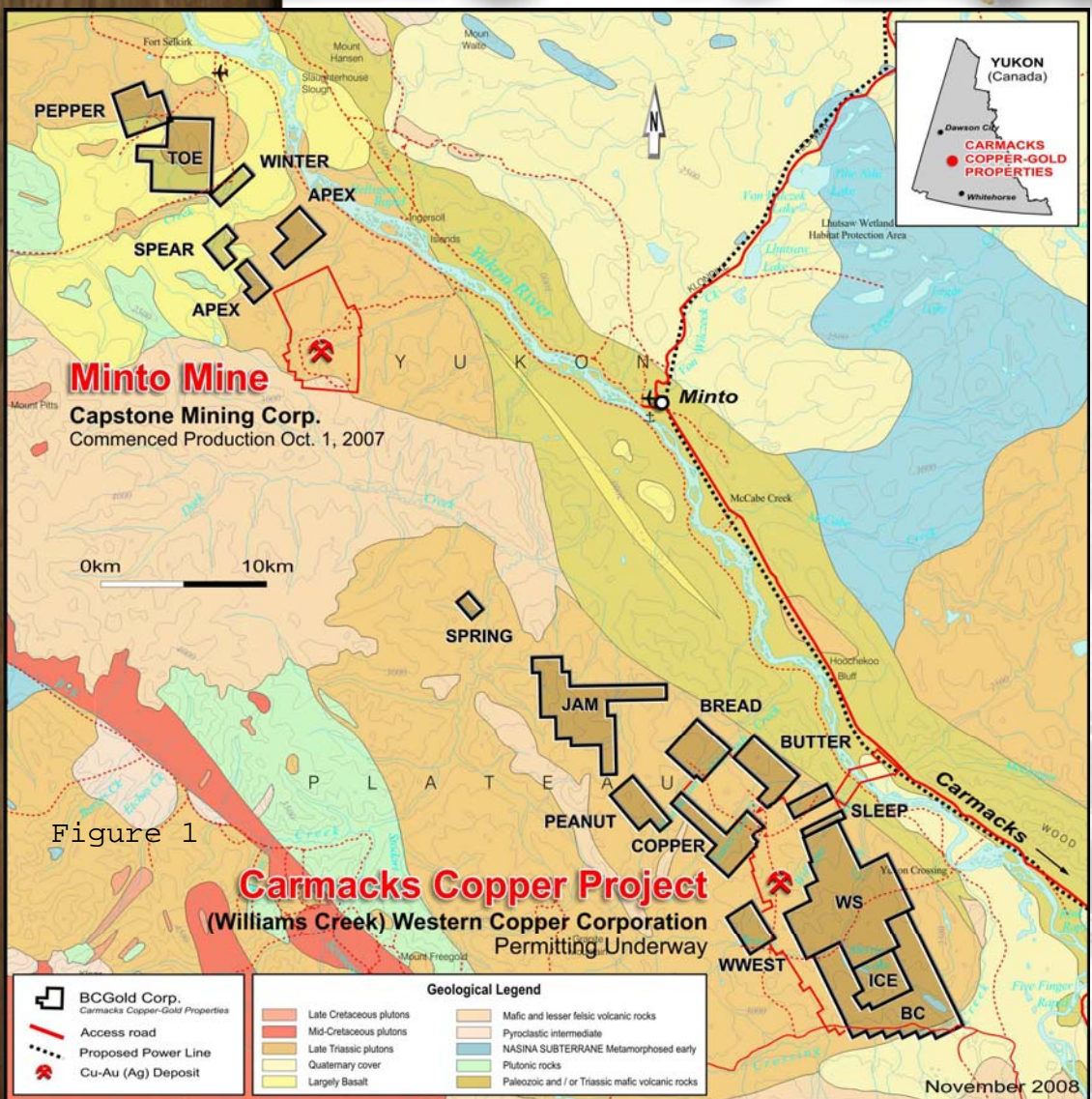
This report is based upon the results of fieldwork supervised by Ivan Drury of Aurora Geosciences Ltd. (“Aurora”) and reports prepared by Aurora for BCGold. There is no reason to believe that any of this information is incorrect.

Information provided by the Yukon Mining Recorder’s website was used to describe the mineral tenure status of the property. This information is believed to be correct.

3.0 Property Description and Location

The Toe property is located in the Yukon’s Dawson Range about 90km northwest of Carmacks, in the area covered by NTS map sheet 115I/11 (Fig. 1). The Toe property consists of claims TOE 1 - 76 (Fig. 2).

Claims TOE 1-76 were staked under the Yukon Quartz Mining Act in the Whitehorse Mining District. The TOE Claims are all owned 100% by Shawn Ryan and are under option to BCGold (Table 1).



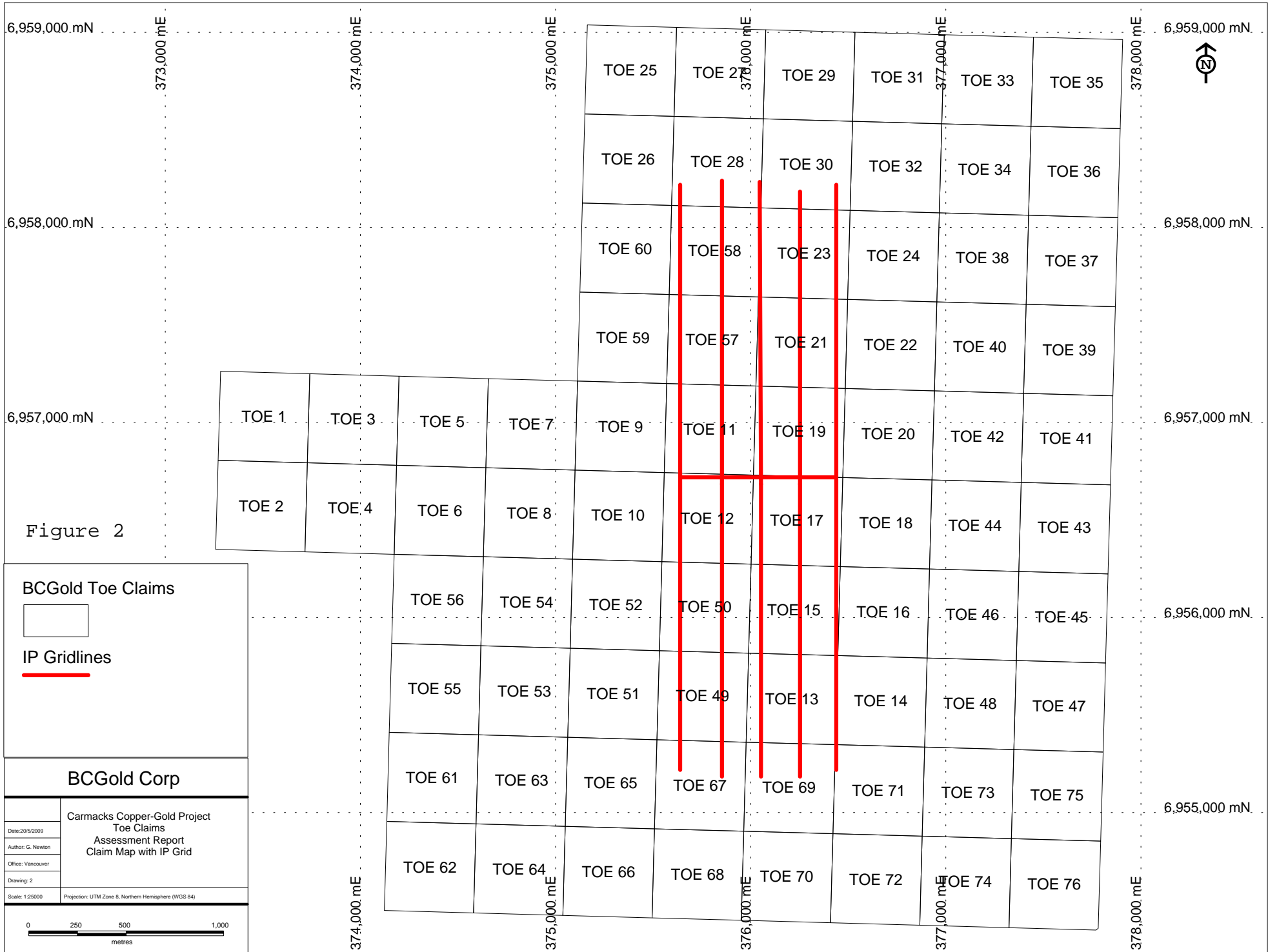


Figure 2

BCGold Toe Claims

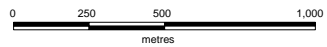


IP Gridlines



BCGold Corp

| | |
|---|--|
| Carmacks Copper-Gold Project Toe Claims Assessment Report Claim Map with IP Grid | |
| Date: 20/5/2009 | |
| Author: G. Newton | |
| Office: Vancouver | |
| Drawing: 2 | |
| Scale: 1:25000 | Projection: UTM Zone 8, Northern Hemisphere (WGS 84) |



**Table 1
List of Claims**

| District | Grant Number | RegType | ClaimName | Claim Nbr | Claim Owner | Recording Date | Expiry Date | Status | NTS MapNumber |
|------------|--------------|---------|-----------|-----------|--------------------|----------------|-------------|--------|---------------|
| Whitehorse | YC46628 | Quartz | TOE | 1 | Shawn Ryan - 100%. | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46629 | Quartz | TOE | 2 | Shawn Ryan - 100%. | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46630 | Quartz | TOE | 3 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46631 | Quartz | TOE | 4 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46632 | Quartz | TOE | 5 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46633 | Quartz | TOE | 6 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46634 | Quartz | TOE | 7 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46635 | Quartz | TOE | 8 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46636 | Quartz | TOE | 9 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46637 | Quartz | TOE | 10 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46638 | Quartz | TOE | 11 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46639 | Quartz | TOE | 12 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46640 | Quartz | TOE | 13 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46641 | Quartz | TOE | 14 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46642 | Quartz | TOE | 15 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46643 | Quartz | TOE | 16 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46644 | Quartz | TOE | 17 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46645 | Quartz | TOE | 18 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46646 | Quartz | TOE | 19 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46647 | Quartz | TOE | 20 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46648 | Quartz | TOE | 21 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46649 | Quartz | TOE | 22 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46650 | Quartz | TOE | 23 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46651 | Quartz | TOE | 24 | Shawn Ryan | 3/20/2006 | 3/20/2013 | Active | 115I11 |
| Whitehorse | YC46674 | Quartz | TOE | 25 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46675 | Quartz | TOE | 26 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46676 | Quartz | TOE | 27 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46677 | Quartz | TOE | 28 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46678 | Quartz | TOE | 29 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46679 | Quartz | TOE | 30 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46680 | Quartz | TOE | 31 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46681 | Quartz | TOE | 32 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46682 | Quartz | TOE | 33 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46683 | Quartz | TOE | 34 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46684 | Quartz | TOE | 35 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46685 | Quartz | TOE | 36 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46686 | Quartz | TOE | 37 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46687 | Quartz | TOE | 38 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46688 | Quartz | TOE | 39 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46689 | Quartz | TOE | 40 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |



| District | Grant Number | RegType | ClaimName | Claim Nbr | Claim Owner | Recording Date | Expiry Date | Status | NTS MapNumber |
|------------|--------------|---------|-----------|-----------|-------------|----------------|-------------|--------|---------------|
| Whitehorse | YC46690 | Quartz | TOE | 41 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46691 | Quartz | TOE | 42 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46692 | Quartz | TOE | 43 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46693 | Quartz | TOE | 44 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46694 | Quartz | TOE | 45 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46695 | Quartz | TOE | 46 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46696 | Quartz | TOE | 47 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46697 | Quartz | TOE | 48 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46698 | Quartz | TOE | 49 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46699 | Quartz | TOE | 50 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46700 | Quartz | TOE | 51 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46701 | Quartz | TOE | 52 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46702 | Quartz | TOE | 53 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46703 | Quartz | TOE | 54 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46704 | Quartz | TOE | 55 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46705 | Quartz | TOE | 56 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46706 | Quartz | TOE | 57 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46707 | Quartz | TOE | 58 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46708 | Quartz | TOE | 59 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC46709 | Quartz | TOE | 60 | Shawn Ryan | 4/4/2006 | 4/4/2013 | Active | 115I11 |
| Whitehorse | YC66548 | Quartz | TOE | 61 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66549 | Quartz | TOE | 62 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66550 | Quartz | TOE | 63 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66551 | Quartz | TOE | 64 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66552 | Quartz | TOE | 65 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66553 | Quartz | TOE | 66 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66554 | Quartz | TOE | 67 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66555 | Quartz | TOE | 68 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66556 | Quartz | TOE | 69 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66557 | Quartz | TOE | 70 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66558 | Quartz | TOE | 71 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66559 | Quartz | TOE | 72 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66560 | Quartz | TOE | 73 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66561 | Quartz | TOE | 74 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66562 | Quartz | TOE | 75 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |
| Whitehorse | YC66563 | Quartz | TOE | 76 | Shawn Ryan | 11/21/2007 | 11/21/2013 | Active | 115I11 |

Source: Yukon Mining Recorder Website. Information current to May 12th, 2009



4.0. Accessibility, Climate, Local Resources, Infrastructure and Physiography

The Spear property is helicopter-accessible only. Precipitation in the area is low. Winters are cool and temperatures of -30° to -40°C are common. Summers are moderately cool to hot with daily highs of 15° to 30°C . The towns of Carmacks and Pelly Crossing are the closest centres for obtaining groceries, fuel, accommodation and some limited rental and contracted exploration services. Trans North Helicopters maintains a seasonal helicopter base in Carmacks (Doherty, 2007).

5.0 History

The area covered by the TOE 1-76 claims may have seen some prior reconnaissance exploration work as part of the property work around the Minto deposit, but no reference to work prior to staking in 2006 has been located (Doherty, 2007). Helicopter-borne magnetometer and scintillometer surveys were flown over the property by BCGold in July 2007. 320 MMI samples were collected on the property in 2007.

6.0 Geology

6.1 Regional Geology

The Toe property is underlain by the Early Jurassic Minto Pluton (Hood et al, 2009), which is intrusive into the Paleozoic Yukon-Tanana Terrane (Gordey and Makepeace, 1999). These intrusive rocks are locally unconformably overlain by Late Cretaceous Carmacks Group volcanic rocks and Quaternary Selkirk Volcanics (Hood et al, 2009). Outcrop in the area is very sparse. The area is unglaciated and rocks are deeply weathered (Mortensen and Tafti, 2003).

6.2 Property Geology

The Toe property is underlain by foliated to non-foliated hornblende-biotite granodiorite with minor aplite dykes.

7.0 Work Program/Method

7.1 Line Cutting

A field crew from Coureur des Bois Ltd. of Whitehorse, YT cut the IP gridlines in June 2008 (Fig. 2).



7.2 Gradient array induced polarization survey

A field crew from Aurora conducted a gradient array induced polarization survey from July 14th to August 4th. Details of the survey are included in appendices 1, 2 and 3. The digital data from the survey is included in appendix 4, on the CD-ROM included with this report.

8.0 Results and Interpretation

The induced polarization survey outlined four features of higher chargeability: A, B, C and D (Figs. 6 and 7).

Feature A

Coincident chargeability and resistivity high. No MMI coverage of area, so no correlation with MMI copper results. IP signature consistent with a relatively shallow horizontal conductor.

Feature B

Coincident chargeability and resistivity high. Area was covered by MMI sampling, but there is no correlation between elevated MMI copper values and Feature B. IP signature consistent with a relatively shallow horizontal conductor.

Feature C

Strong chargeability high, along southern edge of an area of low resistivity. IP signature consistent with a horizontal conductor. No MMI coverage of area.

Feature D

Chargeability high, in an area of low to moderate resistivity. IP signature consistent with a horizontal conductor. Chargeability high coincident with an area of elevated MMI copper values.

9.0 Recommendations

The anomalies identified by the gradient array induced polarization survey should be thoroughly mapped and prospected. If mapping and prospecting results support Aurora's drilling recommendations (Appendix 3) then the target should be tested by diamond drilling. If there is insufficient outcrop to confirm drill targets, a closer-spaced follow up pole-dipole or dipole-dipole induced polarization survey could be run over the chargeability anomalies to better define drill targets. Additional MMI soil sampling should be conducted over the strong chargeability features A and C to determine if they are associated with elevated copper values in soil.



10.0 Statement of costs

TOE 1-76 Claims YC 46628 – YC 46651, YC 46674 – YC 46709 and YC 665408– 66563

NTS 115I/11

Three certificates of work were filed in December 2008 covering the TOE claims. The work was completed from July 14th to August 4th, 2008 on the following claims:

Certificate 1

TOE 67 YC 66548

Renewals were requested for :

TOE 61 – 67 YC 66548 – YC 66554

Renew for 5 years

Total exploration expenditures required \$3,500.00

Certificate 2

TOE 69 YC 66556

Renewals were requested for :

TOE 68 – 74 YC 66555 – YC 66561

Renew for 5 years

Total exploration expenditures required \$3,500.00

Certificate 3

TOE 13 YC 46640

Renewals were requested for :

TOE 75 - 76 YC 66562 – YC 66563

Renew for 5 years

Total exploration expenditures required \$1,000.00



Detailed statement of work

| Item | Cost |
|---|--------------------|
| Coureur des Bois Ltd. 23-Jun-08 | \$11,471.45 |
| Total invoices from Coureur des Bois Ltd. Were \$144,291.47 for 104.4km of linecutting. The average cost per km was \$1,382.10. Coureur des Bois cut 8.3km of line on the Toe claims, for an estimated cost of \$11,471.45 | |
| Aurora Geosciences Ltd. 31-Aug-08 | |
| Aurora Geosciences cut 7.5 km of line on the Toe claims, for an estimated cost of \$15,650.84 | \$15,650.84 |
| Total invoices from Aurora Geosciences Ltd. Were \$197,771.17 for 86.9km of IP surveys. The average cost per km was \$2,275.85. Aurora Surveyed 15.0km of line on the Toe claims, for an estimated cost of \$22,758.48 | \$22,758.48 |
| Total | \$61,630.07 |

Geoff Newton, G.I.T.
Project Geologist
BCGold Corp
May 20th, 2009



11.0 Certificate of qualifications

I, Geoff Newton, hereby certify that:

1. I am a Project Geologist with BCGold Corp, #1400, 625 Howe Street, Vancouver, BC, V6C 2T6
2. I am a graduate of Laurentian University, with a degree in Geology (B.Sc. Honours, 2005).
3. I have been involved in mineral exploration in the Yukon continuously since 2005.
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia and have been registered as a Geoscientist in training since 2008.
5. I am the author of all sections of this report, except where cited, on the TOE 1-76 claims. The report is based on fieldwork conducted in June and July 2008 and company files.

Geoff Newton, G.I.T.
Project Geologist
BCGold Corp
May 20th, 2009



12.0 References

Doherty, R.A. 2007. Assessment report on the APEX 1-39 claims (YC47182 – YC47220) Wolverine Creek area, Yukon. Yukon Assessment Report #

Gordey, S.P. and Makepeace, A.J. (comp). 1999. Yukon bedrock geology in Yukon digital geology, S.P. Gordey and A.J. Makepeace (comp.); Geological Survey of Canada Open File D3826 and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-1(D)

Hood, S., Hickey, K., Colpron, M. and Mercer, B.. 2009. High-grade hydrothermal copper-gold mineralization in foliated granitoids at the Minto mine, central Yukon. Yukon Exploration and Geology 2008: 137-146.

Mortensen, J.K. and Tafti, R.. 2003. Nature and origin of copper-gold mineralization at the Minto and Williams Creek deposits, west-central Yukon: Preliminary investigations. Yukon Exploration and Geology 2002: 175-182.



Appendix 1

Aurora Geosciences Ltd. Field Crew Survey Log 11 August 2008

SURVEY LOG BCG-8533-YT BC Gold Gradient IP

| | | |
|-----------------------|------------------|---------------------|
| Crew chief | Ivan Drury | July 4 - August 5 |
| Field Hand | Olivier Barre | July 4 - August 1 |
| Field Hand | Nicolas Tremblay | July 4 - August 1 |
| Field Hand | Stacey Bishop | July 4 - August 1 |
| Linecutter Crew Chief | Gaetan Cyr | July 25 - July 31 |
| Brusher | Dan Mackenzie | July 25 - July 31 |
| Linecutter | Richard Smaslet | July 25 - August 1 |
| Brusher | Ben Power | July 25 - August 1 |
| Field Hand | Kim Ayles | August 1 - August 5 |
| Field Hand | Dan Mackenzie | August 1 - August 5 |
| Field Hand | Gaetan Cyr | August 1 - August 5 |

| LINECUTTER TOTALS | |
|-------------------|--------|
| Days worked | 6 |
| Standby days | 0 |
| Travel days | 2 |
| Line-Km cut | 6.5 Km |

| IP SURVEY TOTALS | |
|---------------------------|----------|
| Days surveyed | 23 |
| Standby days | 4 |
| Half-survey / half-travel | 2 |
| Travel days | 4 |
| Line-Km surveyed | 54.55 Km |

| Date | Grid | IP Survey | | Total | Linecutting | Survey | Remarks |
|--------|-------|----------------|----------------------------|---------------------------|--------------|--------|---|
| | | Lines | Stations | (line-km) | Line Km Done | Hours | |
| Jul-04 | Spear | | | | | | Travel day. Drove from Whitehorse to the Minto landing strip with one truck and one driver. Flew to the Spear Grid camp by Transnorth helicopter; two trips with crew and gear and four sling loads. ID located and cut a heli-pad for the transmitter location. Set up camp. |
| Jul-05 | Spear | | | | | 10 | Survey day. All crew on current wire. Set out current wire for the Spear grid. Ran out of wire 500m short of complete circuit. WEATHER: Warm and sunny in the AM. Periodic rain in the afternoon. Helicopter made 1 trip in to drop off a supply of water because the area is completely dry. |
| Jul-06 | Spear | | | | | 9 | Survey day. All crew on current wire. Rolled up current wire on the north end of the grid to re-set it 500m closer to the grid to make up for being short of wire to complete the circuit. When the wire was laid out, we had an open loop. Did not fix it before work was halted due to a serious safety incident. WEATHER: Thunder storms of varying intensity all day. Had to stop work in the afternoon for 2 hours due to a heavy thunder and lightning storm directly overhead. SAFETY INCIDENT: An adult black bear entered camp, ripped out the wall of the food tent and got into camp food supplies. OB saw it and scared it off with a bear banger. The bear returned two more times. OB shot it with the shotgun twice on its last visit. It ran off injured. |
| Jul-07 | Spear | | | | | | Standby day. Stayed up all night and all day in shifts to watch over camp in case the bear returned. From 3pm to 6pm OB and ID attempted to track the bear to find out if it was dead or injured. Gave up the search due to safety concerns when tracks entered a swampy area that was dense with willow with very poor visibility. Did not work due to safety concerns because of uncertainty about the condition and location of the bear. WEATHER: periodic rain with storms in the afternoon. |
| Jul-08 | Spear | | | | | | Standby day. Made a bear alarm out of fishing line and cans last night so we did not do shifts in the kitchen tent like the night before. Did not work due to safety concerns because of uncertainty about the condition and location of the bear. Contacted the Aurora office to request a second firearm so the crew can work in pairs with one gun to each pair. Will remain on standby until the second firearm and a bear fence arrives by helicopter. The Aurora office is in contact with the government about protocols for dealing with the bear incident. WEATHER: periodic rain. |
| Jul-09 | Spear | | | | | | Standby day. Helicopter came in with a Conservation officer and RCMP officer to investigate the bear incident. They brought the additional firearm and a bear fence with them. Set up the bear fence but it was too late at that point to begin the day. |
| Jul-10 | Spear | 10000 10200 | 10000-11800 10000-11800 | 1.8 1.8 TOTAL 3.6km | | 14 | Survey day. ID on Rx, SB on Tx, OB and NT on cables. After 3 days off there were more than 15 breaks in the current line, including one break where the bear carried off 130m of wire into the bush. More than 30m of this broken wire was smeared with the bear's blood. Worked fixing breaks in the current wire from 8am until 3:30pm; when we started surveying. Long day. WEATHER: Fair and mostly sunny all day. EQUIPMENT: Broke a new cable on the first pull on the first line, then the same cable broke again later in the day and we ended up running a wire from the 250m point to the end for the |



rest of the day. Retired it for repair at the end of the day and will use the backup cable until it's fixed.

| | | | | | | | |
|--------|--------|---|---|--|--|--|--|
| Jul-11 | Spear | | | | | | Standby day. A bear came back to camp again during the night, ripped the side of the tent open and got into the food again - with the bear fence armed. Stayed in camp because the lines run straight through its flight paths and we felt it likely that it would return to camp again. It did not. Ivan and Olivier went out looking for the bear for 2 hours in the afternoon without any results. |
| Jul-12 | Spear | 10400 10600 | 10000-11800 10000-11800 | 1.8 1.8 TOTAL 3.6km | | | 10 Survey day. ID on Rx, NT on Tx, OB and SB on cables. Fewer breaks in the current wire, fixed in the AM. Ran the survey with tight safety and security practices; worked only one line at a time to have everyone together with the Rx, carrying the second firearm. Ran the cables two at a time on each line with the Rx plugs meeting in the centre, so the harness would be alternately plugged in forwards (1 to 7) and backwards (7 to 1). WEATHER: patchy cloud most of the day with a heavy thunderstorm at 5pm that lasted half an hour and then passed. |
| Jul-13 | Spear | 10800 | 10000-11800 | 1.8 TOTAL 1.8km | | | 9 Survey day. ID on Rx, OB on Tx, SB on cables, NT on current wire. Some far apart breaks in current wire, took 3 hours to fix. NT stayed out on the current wire line while ID and SB dragged cables and read the last line of the grid. ID and SB packed up the cables, OB packed up Tx site and the wire near the Tx, NT rolled up wire along the west side of the grid. Wire on the south side will be rolled up tomorrow morning. WEATHER: Sunny and hot all day. SAFETY: Some initial signs of heat exhaustion in some crew. Rested and drank lots of water. EQUIPMENT: Cable broke on L10800, fixed in the field. |
| Jul-14 | Toe | | | | | | 12 Survey / Travel day. ID and SB finished rolling up the current wire from Spear grid while OB and NT packed up camp. Demobed from Spear grid to Toe grid by helicopter; 5 sling loads and 2 trips with crew. The GPS points for Toe grid were off by 1.5km so it was necessary to replan camp and Tx locations from the air. ID replotted line and current pit locations in the evening after everyone set up camp. |
| Jul-15 | Toe | | | | | | 9 Survey day. All crew on current pit building. Set up pits for the southern 600m box of the Toe grid. Pits were set at 1.8km from line ends, as consulted with the office project manager. |
| Jul-16 | Toe | 11100 10900 10700 10500 10300 | 10000-10600 10000-10600 10000-10600 10000-10600 10000-10600 | 0.6 0.6 0.6 0.6 0.6 TOTAL 3km | | | 11 Survey day. ID on Rx, NT on Tx, SB on cables, OB on pit building. EQUIPMENT: There were no breaks in the wire in the AM but there were numerous sections of failed wire that had to be carefully checked and repaired before we could run the survey. Cables broke three times on the lines, once from animal chewing. WEATHER: Hot and sunny all day. Finished the southern box (600m) of the Toe grid. OB set up the pits for the northern 900m box of the grid. |
| Jul-17 | Toe | 10300 10500 10700 10900 11100 | 10550-11500 10550-11501 10550-11502 10550-11503 10550-11504 | 0.95 0.95 0.95 0.95 0.95 TOTAL 4.75km | | | 9 Survey day. ID on Rx, SB on Tx, OB and NT on cables. WEATHER: Sunny in the AM and storm clouds came in the afternoon with no storm. Had no breaks in the current wire today. Finished Toe grid. |
| Jul-18 | Toe | | | | | | 7 Survey day. All crew worked rolling up current wire. WEATHER: Rain until 5pm. |
| Jul-19 | Pepper | | | | | | Travel day. Demobed from Toe grid, set up camp at Pepper grid. There is evidence of bear activity in the area around Pepper camp so we set up the bear fence with two lines around the kitchen and sleeping tent. EQUIPMENT: Mobe to Pepper grid took 5 sling loads with the helicopter and 2 loads of crew members. |

| | | | | | | | |
|--------|--------|---|---|---------------------------------|--|----|---|
| Jul-20 | Pepper | | | | | 8 | Survey day. All crew set up current wire. Ran out of wire laying out the grid so we have none to spare and must roll up the pits for the south box before laying out the centre and north box current pits. SAFETY: Had two bear sightings while laying out current wire; both within 100m of camp. In both cases the bear ran off. Keeping the bear fence armed at night. |
| Jul-21 | Pepper | 10000 10000 10200 10400 10600 | 10000-10900 10800-11400 10000-10900 10000-10900 10000-10900 | 0.9 0.6 0.9 0.9 0.9 | TOTAL: 4.2km | 10 | Survey day. ID on Rx, OB on Tx, SB on cables, NT on cables and current wire. Had 4 current wire breaks after the first reading of the day, lost nearly 2 hours to fixing the breaks. While ID and SB finished the south box, NT headed to the north pit to roll up wire and lay out the centre box's north pit. After reading 600m on the centre box, had another break in the current wire and called it a day. WEATHER: Rained heavy all night. Periodic cloud and cool all day with some showers. |
| Jul-22 | Pepper | 10000 10200 10400 10600 | 11400-11700 10800-11700 10800-11700 10800-11700 | 0.3 0.9 0.9 0.9 | TOTAL: 3km | 10 | Survey day. ID on Rx, NT on Tx, SB and OB on cables. Readings were slow due to poor signal to noise ratio compared to other boxes on the grid. Where standard deviation was above threshold, numerous repeats at stacks of 15 were taken to ensure repeatability. WEATHER: Overcast all day, with periodic light rain and wind. Called the GSC data centre for space weather report and the Auroral zone was quiet. |
| Jul-23 | Pepper | 10000 10200 10400 10600 | 11600-12500 11600-12500 11600-12500 11600-12500 | 0.9 0.9 0.9 0.9 | TOTAL: 3.6km | 10 | Survey day. ID on Rx, SB on Tx, OB and NT on cables. WEATHER: Mostly clear with wind and light cloud. Finished Pepper grid. |
| Jul-24 | Pepper | | | | | 5 | Survey day. All crew rolling up current wire. Cleaned up the grid and prepared for mobe to Peanut. WEATHER: Overcast in the AM, rain in PM. |
| Jul-25 | Peanut | | | | | | Travel day. Demobed from Pepper to Peanut. Set up camp at Peanut. Mobe took 4 sling loads with the helicopter and 2 trips with crew. LINECUTTER crew of 4 mobed into the Toe grid by helicopter. 1 truck and driver drove them from Whitehorse to the Five Finger Rapids staging area. 2 internal loads and 4 sling loads done by helicopter. |
| Jul-26 | Peanut | 12200 | 11500-10000 | 1.5 | Linecutting L10300 L10500 TOTAL: 1.35km | 9 | Survey day. ID on Rx, OB on Tx, SB on current, NT on cables. Set up and read the first line of the Peanut grid. Checked gear in the AM and still had 3 broken cables on the line (2 shorts and one that broke with use). Found the ground to be highly resistive and difficult to pass a current through because of 1 to 3 feet of volcanic ash that lay everywhere just beneath the surface moss. Experimented with deeper pits and ended up digging mobile current pits at every station for the second current position. WEATHER was warm and clear. |
| Jul-27 | Peanut | 12000 11800 | 11500-10000 11500-10000 | 1.5 1.5 | Linecutting L10300 L10500 TOTAL: 1.2km | 11 | Survey day. ID on Rx, NT on Tx, OB on current wire, SB on cables. Difficult current conditions continued so we continued to dig pits for each location. WEATHER was mostly clear with some cloudy periods. SAFETY: OB and ID saw a pack of wolves at the south end of line 12000; they ran off. Did not consider them a serious safety issue. |
| Jul-28 | Peanut | 11400 11600 | 11500-11000 11500-10000 | 1.5 1.5 | Linecutting L10700 L10900 TOTAL: 1.25km | 9 | Survey day. ID on Rx, SB on Tx, OB on cables, NT on current. WEATHER mostly cool and clear. |

| | | | | | | | |
|--------|--------|---|--|---|---|----|---|
| Jul-29 | Peanut | 11200 11000 10800 | 11500-11000 11500-11000 11500-11000 | 1.5 1.5 1.5 TOTAL: 4.5km | Linecutting L10700 L10900 TOTAL: 1.6km | 10 | Survey day. ID on Rx, OB on Tx, SB on current, NT on cables. OB left the Tx to help with line changes and we managed a very productive day. WEATHER cloudy and cool. EQUIPMENT: 1 Helicopter flight in to deliver drinking water. |
| Jul-30 | Peanut | 10600 10400 | 11500-10000 11500-10000 | 1.5 1.5 TOTAL: 3km | Linecutting L10900 L11100 TOTAL: 1.8km | 8 | Survey day. ID on Rx, NT on Tx, SB on cables, OB on current. WEATHER: Light rain all day. SAFETY: SB noted a bear den on line 10400 station 10550; OB saw an unidentifiable animal inside the den. |
| Jul-31 | Peanut | 10200 10000 | 11500-10000 11500-10000 | 1.5 1.5 TOTAL: 3km | Linecutting L11100 TOTAL: 0.3km | 9 | Survey day. ID on Rx, SB on Tx, OB on cables, NT on current. WEATHER: light cloud in the AM, overcast PM. Finished the Peanut grid and cleaned up all wire. |
| Aug-01 | Toe | | | | | 5 | Travel / Survey day. Demobed Peanut grid. SB, OB and NT demobed to Whitehorse with a truck shared with two linecutters who demobed at the same time from Toe grid. One truck and driver, KA, came from Whitehorse and joined ID in a mobe into Toe grid. Overall there were 3 sling loads, 3 crew loads and 1 separate internal gear load done by helicopter for both mobes. The new crew at Toe grid laid out the current pits. SAFETY: A black bear came into the Peanut grid camp early in the AM. The dog chased it off. It came back 6 times before the crew demobed and left each time with yelling and bear bangers. |
| Aug-02 | Toe | 11100 10900 10700 | 8500-9400 8500-9400 8500-9400 | 0.9 0.9 0.9 TOTAL: 2.7km | | 11 | Survey day. ID on Rx, KA on Tx, GC and DM on cables and current wire. GC and DM finished laying out the south current pit in the AM. GC set out alone at first but ran into a grizzly bear and DM joined him for safety. After they got the pit finished there were two open loops on the south side, so the survey did not begin until after 3pm. WEATHER: Clear and warm. SAFETY: GC saw a grizzly bear that left after he fired off a bear banger. ID saw a possible bear den between lines 10700 and 10500 at station 9400. |
| Aug-03 | Toe | 10500 10300 10700 10900 11100 | 8500-10150 8500-10150 9250-10150 9250-10150 9250-10150 | 1.8 1.8 0.9 0.9 0.9 TOTAL: 6.3km | | 12 | Survey day. ID on Rx, DM on Tx, GC & KA on cables. EQUIPMENT: A cable and an electrode broke and were fixed in the field. The north current pit burned out and was fixed by replacing the wire connecting the pit. WEATHER: Cloudy with some rain. |
| Aug-04 | Toe | | | | | 7 | Survey day. All crew cleaned up the current wire from the grid. |
| Aug-05 | Toe | | | | | | Travel day. Demobed from Toe grid by helicopter with 4 sling loads and 2 internal loads of crew. A truck and driver met the helicopter at the Minto strip and drove the crew back to Whitehorse. |

Appendix 2

Aurora Geosciences Ltd. Field Report 11 August 2008



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MEMORANDUM

To: Geoff Newton
BC Gold Corp.

Date: 11 August 2008

From: Ivan Drury, Steven Kramar

Re: 2008 Induced Polarization Survey Preliminary Field Report

This memorandum is a preliminary field report describing an induced polarization (IP) survey conducted on BC Gold properties. A modified pole-dipole IP survey was conducted on the WS, Copper, and Peanut grids and a gradient IP survey was conducted on the Spear, Toe, and Pepper grids, Whitehorse Mining District, Yukon Territory. The survey was conducted from June 13 to August 5 2008 by two separate crews.

The first crew surveyed a total of 22.1 line-km on the WS grid over 20 working days and 12.8 line-km were surveyed on the Copper grid over 6 working days. There was a bear problem on the Copper grid which resulted in the Conservation officer flying in to camp to destroy the bear. The WS grid lines were not completely cut upon arrival which adversely affected production. A full survey log is attached to this report.

The second crew surveyed a total of 27.55 line-km of gradient IP on the Spear, Toe, and Pepper grids and 18 line-km of in-line modified pole-dipole IP was surveyed on the Peanut grid over a total of 25 working days. A separate bear incident on the Spear grid resulted in four stand-by days for the crew due to safety concerns. A conservation officer and RCMP officer flew into camp to investigate the incident but were not able to locate the wounded bear. The Toe grid was cut 1.5km off of where it had been planned, so after the initial survey of the Toe grid was complete a linecutting crew was flown in to re-cut the grid. The second crew returned to re-survey Toe when the re-cutting was complete. A separate full survey log for the second crew is attached to this report.

a. Crew and equipment.

The IP surveys were conducted by the following personnel:

| Crew #1 | | |
|----------------|------------|-------------------|
| Steven Kramar | Crew chief | June 13 – July 12 |
| Luc Harvey | Technician | June 13 – July 12 |
| Dan Mawhinney | Helper | June 13 – July 12 |
| Mike Krause | Helper | June 13 – July 12 |

| Crew #2 | | |
|------------------|------------|---------------------|
| Ivan Drury | Crew chief | July 4 – August 5 |
| Stacey Bishop | Helper | July 4 – August 1 |
| Olivier Barre | Helper | July 4 – August 1 |
| Nicolas Tremblay | Helper | July 4 – August 1 |
| Gaetan Cyr | Helper | August 1 – August 5 |
| Kim Ayles | Helper | August 1 – August 5 |
| Dan MacKenzie | Helper | August 1 – August 5 |

The linecutting done on the Toe grid was conducted by the following personnel:

| | | |
|-----------------|-------------------------|--------------------|
| Gaetan Cyr | Linecutter / Crew chief | July 25 – July 31 |
| Dan MacKenzie | Brusher | July 25 – July 31 |
| Richard Smaslet | Linecutter | July 25 – August 1 |
| Ben Power | Brusher | July 25 – August 1 |

The IP crews were equipped with the following instruments and equipment:

| | | |
|----------------|-------|--|
| IP receiver | 1 | Iris Elrec 6 S/N: 120 |
| IP receiver | 1 | Iris Elrec Pro S/N: 166 |
| IP transmitter | 2 | GDD TxII 3.6 kW S/N: TX-242 & TX-267 |
| Generator | 2 | Honda 5kW generator |
| IP equipment | 2 | Repair tools & spare IP parts |
| | 14 km | 18 gauge wire |

| | | |
|-------|----|---|
| | 23 | 6 conductor 100m IP cables |
| | 3 | 6 conductor 300m IP cables |
| | 9 | VHF handheld radios |
| | | Geo-reels & spools, Speedy winders and spools, stainless steel electrodes |
| | 2 | Laptops with Geosoft IP packages |
| Other | 2 | 4 man summer camps |
| | 3 | Garmin 72 GPS units |
| | | Truck and driver for each mobe / demobe |
| | | Helicopter for camp-moves between grids |

b. IP survey specifications.

The modified pole-dipole IP surveys were conducted according to the following specifications:

| | |
|-------------------|---|
| Array | Modified Pole-Dipole Array |
| Dipole spacing | 100 m on all lines |
| Dipoles Read | N=1 through 6 (6 Channels) |
| Tx | Time domain, 50% duty cycle, reversing polarity, 0.125 Hz. |
| Stacks | Minimum 15 |
| Rx error | 5 mV/V or less, otherwise repeated several times until repeatability assured |
| Grid registration | Handheld GPS points at line ends and every 200m minimum averaged 60 s or until estimated accuracy < 10 m, whichever was longer. All coordinates in NAD83 UTM Zone 8N. |

The gradient IP survey was conducted according to the following specifications:

| | |
|----------------|----------------------------|
| Array | Gradient rectangular array |
| Dipole spacing | 50 m on all lines |

| | | |
|----------------------|---|---|
| Tx | Time domain, 50% duty cycle, reversing polarity, 0.125 Hz. | |
| Stacks | Minimum 15 | |
| Rx error | 5 mV/V or less, otherwise repeated several times until repeatability assured | |
| Grid registration | Handheld GPS points at line ends and every 300m minimum averaged 60 s or until estimated accuracy < 10 m, whichever was longer. All coordinates in NAD83 UTM Zone 8N. | |
| Gradient Arrays read | Spear grid | 800m x 1800m with current electrodes at |
| | 1 box | 379499E 6949355N and 377074E 6952267N |
| | Toe grid | 800m x 900m with current electrodes at |
| | 4 boxes | 375928E 6953605N and 376015E 6957928N |
| | | 800m x 900m with current electrodes at |
| | | 375928E 6953605N and 376052E 6958490N |
| | | 800m x 600m with current electrodes at |
| | | 376001E 6955086N and 376044E 6959085N |
| | | 800m x 950m with current electrodes at |
| | | 376045E 6954886N and 376046E 6959757N |
| | Pepper Grid | 600m x 900m with current electrodes at |
| | 3 boxes | 374370E 6956989N and 372491E 6960814N |
| | | 600m x 900m with current electrodes at |
| | | 374370E 6956989N and 372151E 6961537N |
| | | 600m x 900m with current electrodes at |
| | | 373628E 6958189N and 371948E 6962275N |

c. Data Processing.

Data was downloaded nightly from the receiver and imported into Geosoft Oasis Montaj IP package. Every reading was inspected and readings which did not repeat were rejected from the database. Apparent resistivity was recalculated using a four electrode equation assuming a homogeneous earth. Average apparent resistivity and chargeability were calculated using a weighted mean based on the number of stacks and the standard deviation of the chargeability; except in the case of the WS and Copper grids where the number of stacks taken in each reading was not downloaded from the receiver.

The ground provided clear and consistent readings. However, in those areas that produced a relatively lower signal to noise ratio additional readings as well as greater stacks of averaged readings were taken in order to ensure repeatability. On the Peanut grid, Line 11400, and the Copper grid, Lines 104 and 106, single data points were deleted from the final database because they stood apart too greatly from the chargeability patterns noticeable on said and surrounding lines.

GPS points were dumped from the handheld units and the coordinates for the stations determined by linear interpolation between GPS units. Elevations were determined from a digital elevation model equivalent to NTS 1:50:000 maps.

For those grids surveyed with a modified pole-dipole array pseudosections of apparent resistivity, apparent chargeability, and apparent chargeability error, draped over topography, were produced with Oasis Montaj. For those grids surveyed with a gradient array separate maps for apparent resistivity, apparent chargeability, and apparent chargeability error were produced with contoured topography. Each map was then exported in .pdf format.

d. **Products.**

The following data files are appended to the digital version of this report:

| | |
|-----------------------------------|---|
| Data | Final data in Geosoft ASCII xyz and gdb format. The GPS files have all GPS coordinates taken in NAD83, UTM zone 8N coordinates. |
| Images | Plan maps and pseudosections in .pdf format of apparent chargeability, apparent resistivity, & chargeability error (scale = 1:2500 or 1:5000). Grid maps with GPS coordinates in NAD83, UTM zone 8N (scale = 1:5000). |
| Raw | A folder with all the raw instrument dump files. |
| BC Gold 2008 IP Field Report.pdf | A PDF of this report. |
| BC Gold IP Crew #1 Survey Log.pdf | Survey log for IP crew #1 |
| BC Gold IP Crew #2 Survey Log.pdf | Survey log for IP crew #2 and the linecutting crew |

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Steven Kramar

Ivan Drury

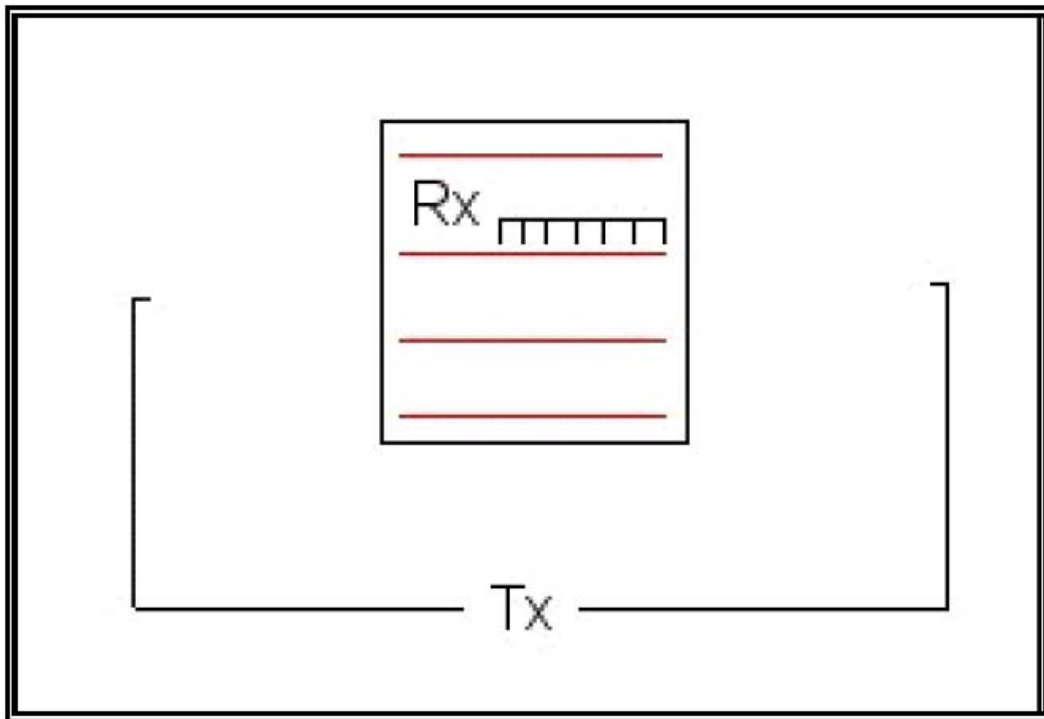
Appendix 3

Aurora Geosciences Ltd. Memo 10 September 2008

GRADIENT GRIDS

a. Gradient IP Method.

An IP / resistivity survey using a gradient array (also known as a modified Schlumberger array) has a source field generated by a grounded current dipole with a very large spacing compared to the potential dipoles. The potentials are surveyed within a smaller area centred at the mid-point between the two transmitting electrodes. The survey geometry is sketched below:



The receiver array (typically 10 dipoles) moves along the survey lines in 10-dipole steps (for example 500 m each move for a survey using 50 m dipoles). The survey lines are confined the area of a survey “box” centred on the mid-point between the transmitting electrodes so that the electric field (and therefore the current) is approximately uniform and horizontal throughout the survey area. As the transmitting electrodes are both stationary, the survey typically proceeds faster than moving source IP surveys.

The dimensions of the survey areas for the Spear, Toe and Pepper grids were as follows:

| Grid | Box | Potential Box Size | Current Electrode Locations | Current Separation |
|-------------|------------|---------------------------|--|---------------------------|
| Spear | Box 1 | 800m X 1800m | 379499E 6949355N and 377074E 6952267N | 3800m |
| Toe | Box 1 | 800m X 900m | 375928E 6953605N and 376015E 6957928N | 4325m |
| Toe | Box 2 | 800m X 900m | 375928E 6953605N and 376052E 6958490N | 4900m |
| Toe | Box 3 | 800m X 600m | 376001E 6955086N and 376044E 6959085N | 4000m |
| Toe | Box 4 | 800m X 950m | 376045E 6954886N and 376046E 6959757N | 4875m |
| Pepper | Box 1 | 1 600m X 900m | 374370E 6956989N and 372491E 6960814N | 4250m |
| Pepper | Box 2 | 600m X 900m | 374370E 6956989N and 372151E 6961537N | 5050m |
| Pepper | Box 3 | 600m X 900m | 373628E 6958189N and 371948E 6962275N | 4415m |

The uniform source field of a gradient array differs fundamentally from a dipole-dipole or pole-dipole IP survey where the proximity of the potential electrodes to the current source results in a varying source field which can be exploited to extract depth information about the target. The data are typically plotted in pseudosections with distal potentials plotted below proximal potentials to indicate their greater depth sampling. In a gradient survey, all potential stations are equivalent as the source field is uniform within the survey area and pseudosections cannot be made. This is a disadvantage of the gradient method: very little target depth information can be derived.

Because the source field is horizontal, gradient array surveys are relatively insensitive to thin vertical conductors striking aligned normal to the direction of the primary electric field and are most sensitive to horizontal or flat-lying conductors. Conversely, the gradient array is more sensitive to steeply dipping resistive features than horizontal resistive features (Furness, 1993). Similarly, the gradient array is more sensitive to vertical chargeable bodies than horizontal ones. Despite the gradient array insensitivity to vertical conductors, the array is more sensitive to dip than dipole-dipole and pole-dipole surveys and has better horizontal resolution (Coggon, 1973).

Although depth resolution is poor for a gradient array, the depth of investigation, defined as the depth at which a thin horizontal conductor contributes the maximum amount to the total measured signal at the ground surface, is relatively deep. For these three grids it ranges from 240 m for a maximum response at the edge of the Spear potential array to 640 m for a maximum response at the centre of Box 2 of the Pepper grid in an isotropic half-space (Bhattacharya and Dutta, 1982). The depth of investigation for vertical bodies is typically on the order of $\frac{1}{2}$ that of horizontal bodies.

The situation of a constant source field is analogous to that of a magnetic body in the Earth's magnetic field and therefore basic potential theory can be applied. *Quick* (1974) has shown through laboratory experiments that standard potential field depth estimates based on anomaly half-width can be used for gradient array chargeability anomalies.

b. Results and Interpretation.

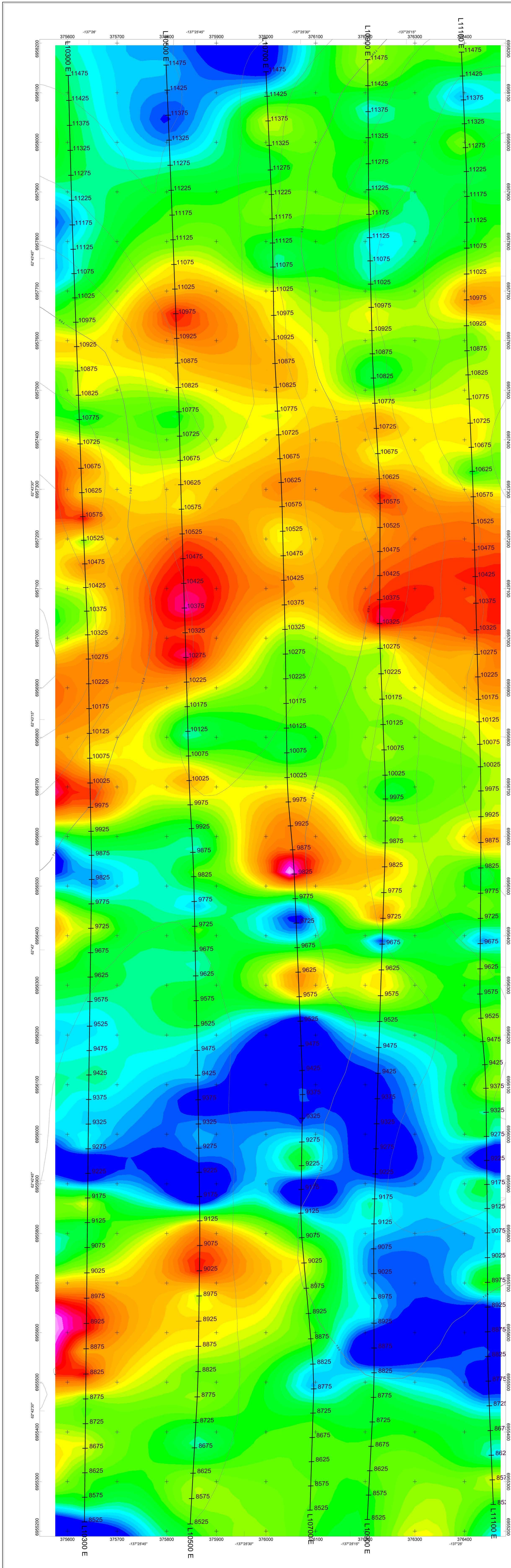
Toe grid

The Toe grid apparent resistivity plan map (*BCG_Toe_Gradient_Res.pdf*) shows the grid divided into a < 1000 Ohm-m conductive area in the middle from station 9675N to 10675 (approximately) with more resistive (> 1500 Ohm-m) ground to both the north and the south. Within the 1500 Ohm-m resistive area are two slightly more resistive area on lines 10500 and 10700 at station 10975 and 10925 respectively and another on L10700E, station 9575N which have coincident chargeability highs, labelled A and B on the accompanying figures *BCG_Toe_Gradient_Res.pdf* and *BCG_Toe_Gradient_IP.pdf*. There are two other chargeable areas labelled C and D which are poorly correlated with the resistivity. All have signatures that would be

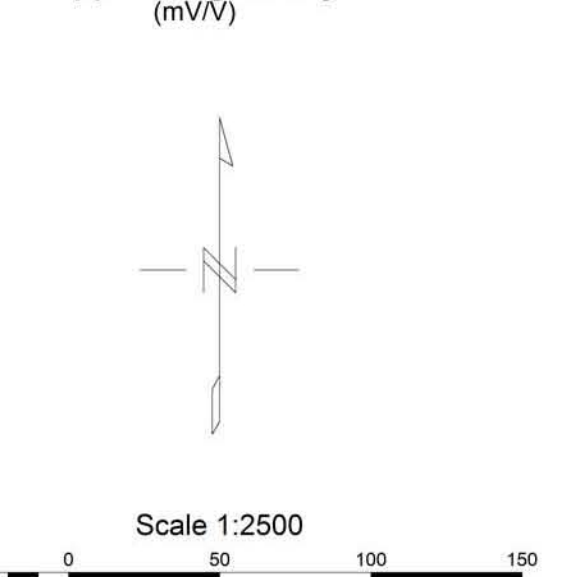
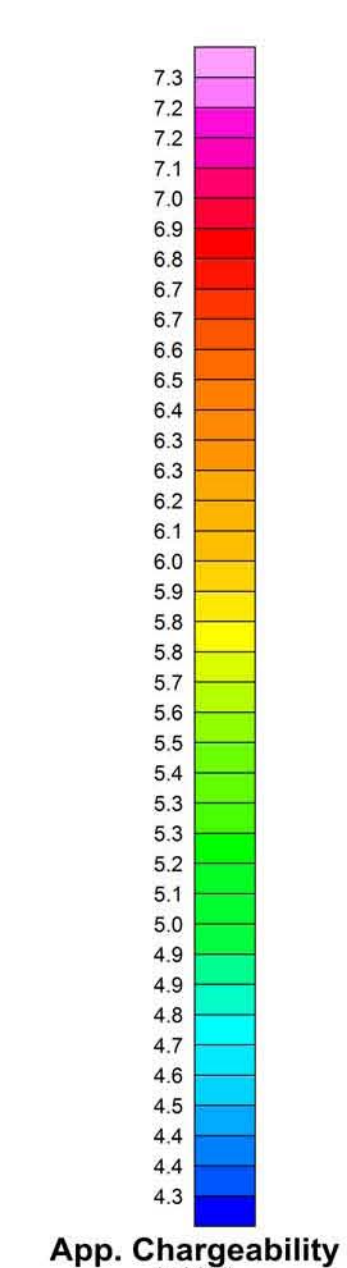
consistent with Minto-style flat lying bodies.

The MMI survey covered the southern part of the Toe grid., predominantly on lines 10200E through 10600E. There is positive correlation between elevated Cu values and elevated chargeability in area **D**, however there is also a substantial group of similarly elevated Cu values in the low to median chargeability area to the north of area **D**. There is negative correlation in area **B** and no MMI coverage in areas **A** and **C**.

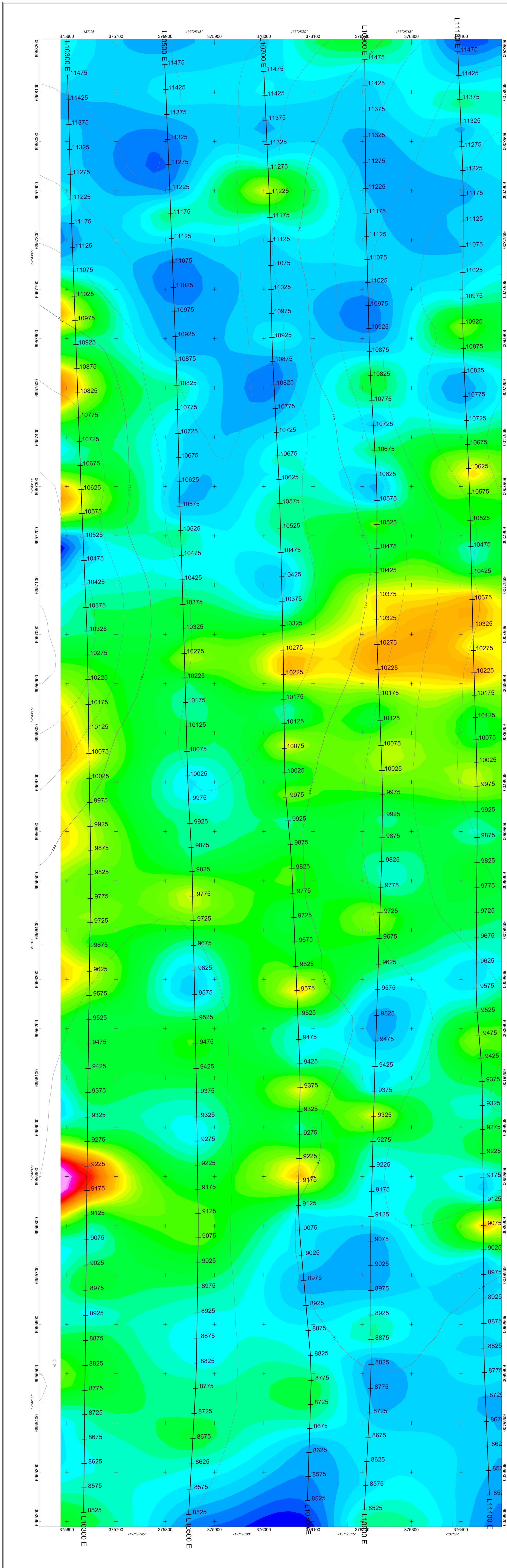
The best IP drill targets would be vertical holes (in the absence of other geological information to indicate a dip) to test the coincident elevated resistivity and chargeability in Area A at L10500E, station 10975N and the uncorrelated chargeability high at L10500E, station 10375N. If the southern half of the grid is preferred (as this was the originally planned survey), an alternate target for the coincident chargeability and resistivity is Area B with a vertical hole on L10700E, station 9600N and an uncorrelated target in area D on L10500E, station 9025N, which is also in an area of elevated MMI Cu concentrations. Targets A and B are suggestive of fairly shallow (<75 m) vertical targets, while areas C and D are more consistent with flat lying targets. The depth of maximum response is quite deep (>600 m) for a flat lying conductive body, but a shallower, greater contrast could produce the same result. Several lines of 25 m dipole inline IP surveying over targets of interest prior to drilling is recommended.



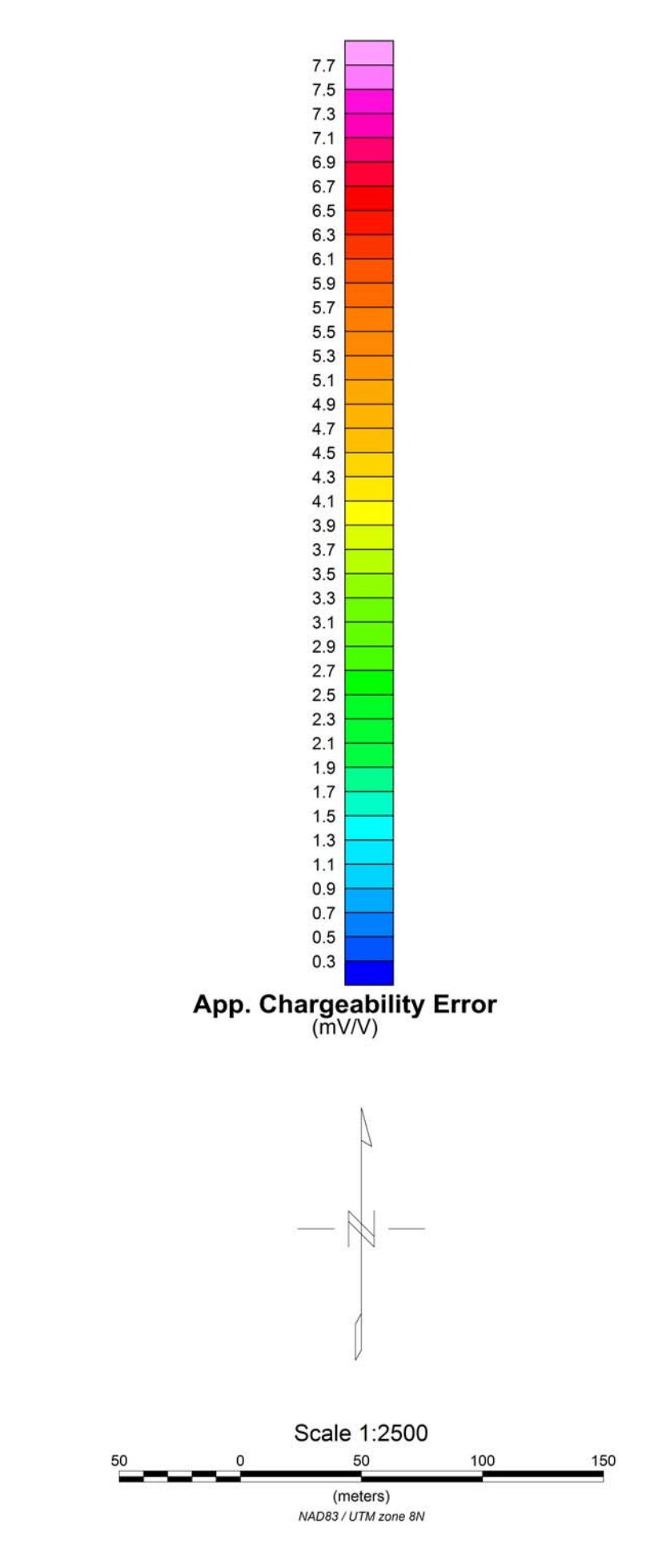
PRELIMINARY



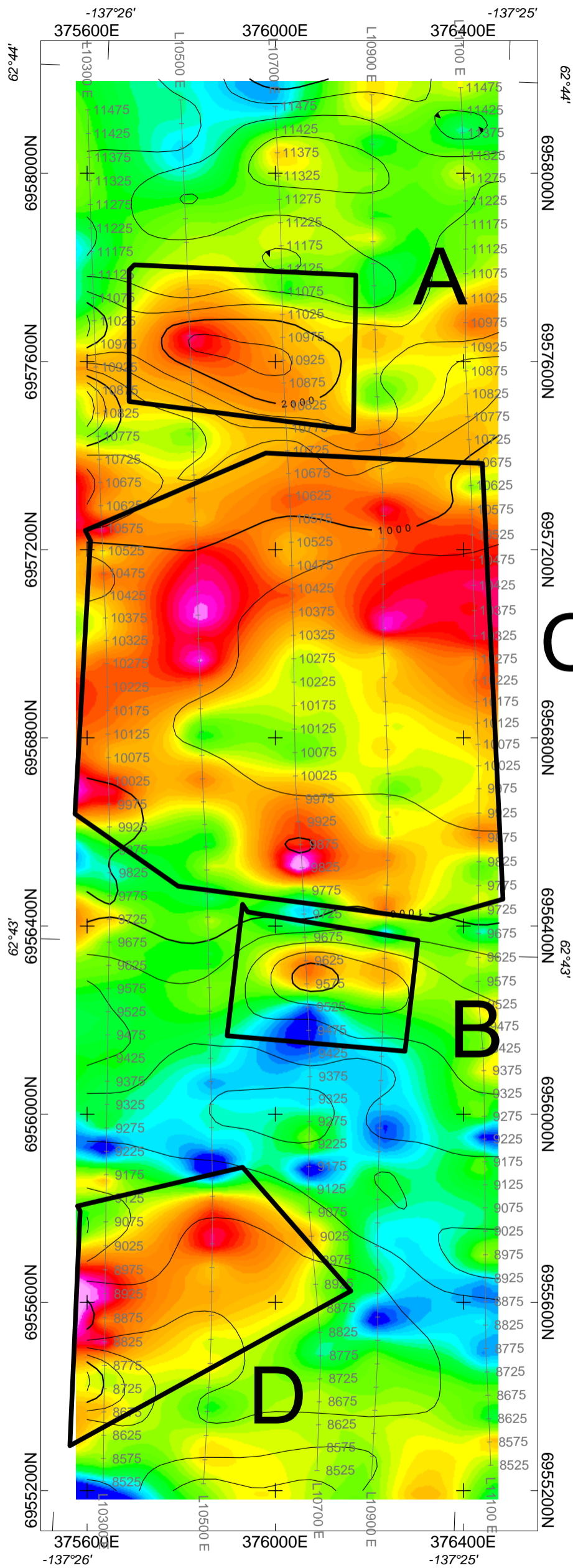
BC GOLD CORPORATION
 T-O-E GRID
 GRADIENT IP SURVEY
 APP. CHARGEABILITY
 Mining District: Whitehorse NAD83 UTM Zone 18N
 Drawn by: ID August 2008
 NTS: 115/11 BCG-8533-YT
 AURORA GEOSCIENCES LTD.



PRELIMINARY



BC GOLD CORPORATION
 TOE GRID
 GRADIENT IP SURVEY
 APP. CHARGEABILITY ERROR
 Mining District: Whitehorse NAD83 UTM8N August 2008
 Drawn by: ID BCG-8533-YT
 NTS: 115/11
 AURORA GEOSCIENCES LTD.

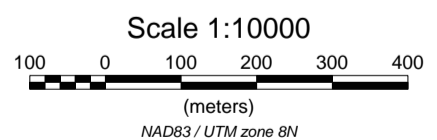
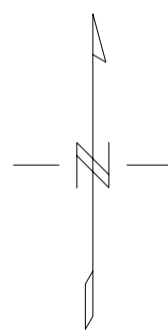


Contour grid: Toe apparent resistivity with 3 passes of a Hanning filter

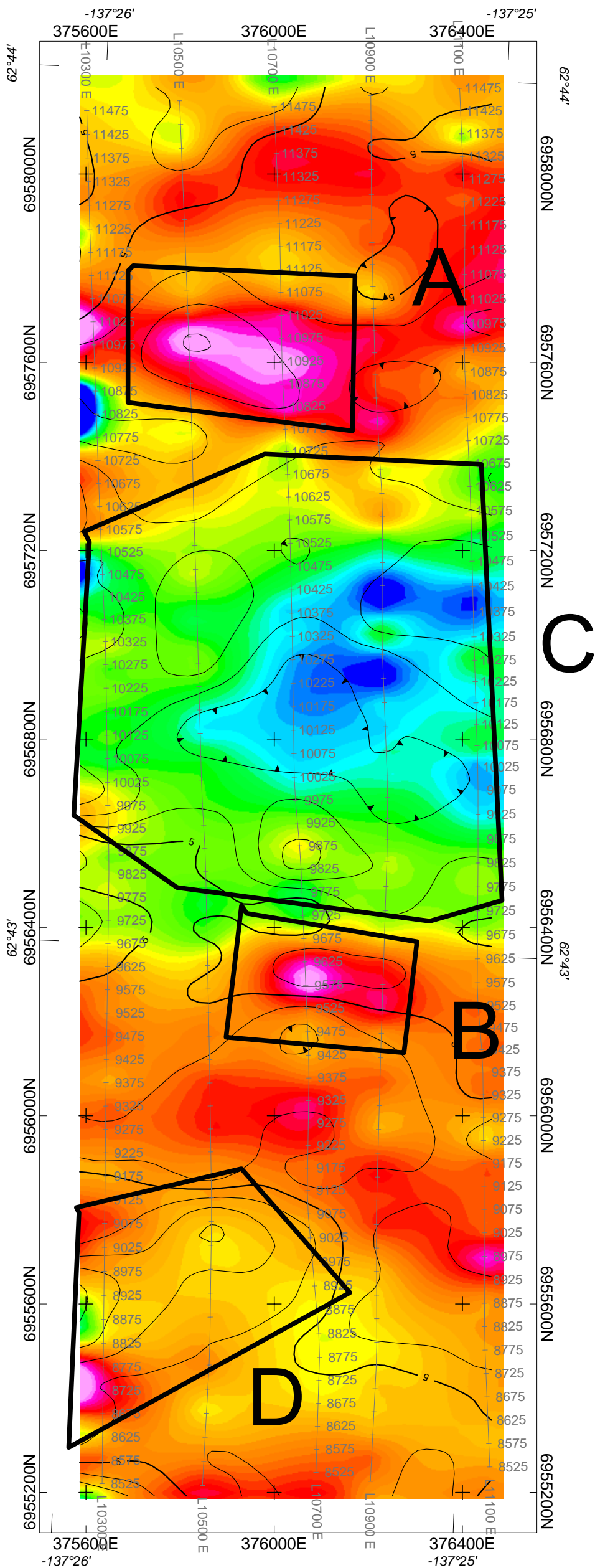
Contour intervals: 250 & 1000 Ohm-m



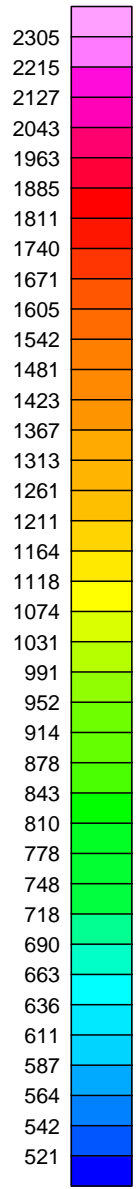
App. Chargeability (mV/V)



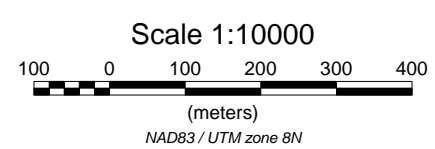
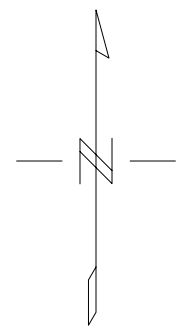
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|--|-----------------------------|
| BC GOLD CORPORARION | |
| TOE GRID GRADIENT IP SURVEY | |
| App. Chargeability with App. Resistivity Contours | |
| Date: Sept 07 2008 | Job #: BCG-8533-YT |
| Drawn by: DH | NTS: 115111 |
| Dates Surveyed: July & August 2008 | Mining District: Whitehorse |
| Datum: NAD83 | Projection: UTM Zn 8N |
| AURORA GEOSCIENCES LTD | |



Contour grid: Toe apparent chargeability with 3 passes of a Hanning filter
 Contour intervals: 0.5 & 2.5 mV/V



App. Resistivity (Ohm-m)



| | |
|--|-----------------------------|
| BC GOLD CORPORARION | |
| TOE GRID GRADIENT IP SURVEY | |
| App. Resistivity with App. Chargeability Contours | |
| Date: Sept 07 2008 | Job #: BCG-8533-YT |
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