



*HINTERLAND METALS INC.*

**Report of Drilling  
Raney Property**

**Porcupine Mining Division, Ontario  
NTS Sheet 041015  
047°52'N, 82°48' W**

**Mark Fekete, P.Geo.  
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**April 21, 2008**

## Summary

In December 2007 and January 2008 Hinterland Metals Inc. completed 758m diamond drilling in four holes on the 230ha Raney property located approximately 110 km southwest of Timmins, Ontario on NTS Map Sheet 41O15. Good vehicle access is provided to the Raney property by several secondary, gravel logging roads.

The property includes six staked claims located in Raney Township within the Porcupine Mining Division of Ontario. Hinterland holds the right to earn 100% interest in the property for total consideration of \$90,000 cash and 300,000 treasury shares scheduled over a two year period ending November 5, 2009. The Vendor retains a 2.5% royalty on metal and diamond production of which Hinterland has the right to buy back the first 1.5% for \$1,500,000 and has the further right of first refusal on the remaining 1.0%.

The property is located within the Swayze Greenstone Belt, which regionally represents the westernmost extremity of the Abitibi Sub-province of the Canadian Shield. Locally the Swayze belt can be broadly described as an arc-like volcano-sedimentary greenstone belt of Archean age that has been acknowledged as the first major re-appearance of greenstones west of the Porcupine gold camp, which has historically produced in excess of 60 million ounces of gold. The property is underlain dominantly by felsic to intermediate pyroclastic rocks with bands of dark very fine argillaceous material. Quartz feldspar porphyry and a narrow lamprophyre dykes have also been noted. Known gold mineralization in the Swayze belt is typically of quartz-carbonate vein sub-type and is generally controlled by zones of shearing and fracturing with associated sulphides and carbonate alteration.

Four distinct exploration campaigns have been conducted on the property by various companies and prospectors over the past eight decades. Most of this work has focused on gold mineralization identified at the No.1 and No. 2 “Thorne-Greaves” showings. The No. 1 showing consists of a 3 to 90cm thick quartz vein within dacite crystal tuffs and feldspar porphyry. Historical assays of up to 34.0 g/t Au have been reported from the quartz vein. Drilling in 1999 clearly indicated two parallel gold-bearing zones in the subsurface and had returned up to 0.84g/t Au over 7.0m from the upper zone and up to 3.37g/t Au over 6.8m from the second zone. The No. 2 showing is located roughly 300m southwest of the first one and consists of a narrow zone of quartz-carbonate veinlets hosted within variably sheared and altered quartz feldspar porphyry. Historical assays up to 27g/t have been reported at this showing but more recent sampling has failed to repeat significant gold values.

The drill campaign completed by Hinterland met its primary goal of confirming the gold results obtained in the 1999 drilling at the No. 1 showing. The gold mineralization definitely occurs in two distinct, parallel, east-trending zones separated by approximately 20m. The gold-bearing zones are hosted within well-layered crystal and ash tuffs, and are marked by quartz-carbonate veining and/or silica flooding and sericite and/or chlorite alteration. They appear to dip steeply to the north. The “Lower” zone shows higher gold and silver grades than the “Upper” zone. The best intersection encountered was 2.76g/t Au and 0.51g/t Ag over 15.5m from 109.7 to 125.2m, including 13.77g/t Au and 4.06g/t Ag over 1.7m from 109.7 to 111.4m, in hole RAN08-04 within the Lower zone. It appears at this stage that the gold-bearing structures are improving to the east from the No. 1 surface showing. Exploration should be focused on testing the eastern extent of this gold mineralization.

The quartz-feldspar porphyry, volcanic contact intersected by the single drill hole completed at the No.2 does not appear to be mineralized. This area does not seem to be as interesting as the No. 1 showing. Less focus should be put on this area.

Significant weight averaged intersections from the drilling are listed as follows:

<b>Hole No.</b>	<b>Zone</b>	<b>From m</b>	<b>To m</b>	<b>Int. m</b>	<b>Au g/t</b>	<b>Ag g/t</b>
RAN08-03	Upper	202.9	204.4	1.5	1.62	0.27
	Incl.	202.9	203.7	0.8	2.20	0.50
	Lower	222.5	225.5	3.0	2.05	0.23
	Incl.	224.5	225.5	1.0	6.04	0.70
RAN08-04	Upper	80.2	86.2	6.0	0.80	0.00
	Incl.	81.2	82.2	1.0	2.09	0.00
	Lower	109.7	125.2	15.5	2.76	0.51
	Incl.	109.7	111.4	1.7	13.77	4.06

A two phase exploration program is recommended consisting of a first phase of line-cutting, magnetic and induced polarization, prospecting and sampling followed by 2000m of preliminary diamond drilling to be followed, contingent on positive results in the first phase, by a second phase of 4000m of advanced drilling. It is also recommended that an additional 13 claims be staked to the east of the present property in order to cover possible strike extensions of the gold-bearing structures identified to date.

The estimated cost of the first phase is \$468,908 and of the second phase is \$660,000 for a total estimated cost of \$1,128,903 for the two phases. These estimates include 10% for contingencies due to weather, shortage of contractors, equipment breakdowns etc. The recommended program is outlined in the following table.

#### **Phase I - Surface Work & Initial Drilling**

Line-cutting	52	km @	\$650	\$33,800
MAG	44	km @	\$150	\$6,600
IP	44	km @	\$1,500	\$66,000
Geologist	25	days @	\$500	\$12,500
Prospector	15	days @	\$375	\$5,625
Samples	50	samples @	\$35	\$1,750
Total Surface Work				\$126,275
Drilling	2000	m @	\$150	\$300,000
Subtotal				\$426,275
Contingency ~10%				\$42,628
Phase I Total				\$468,903

#### **Phase II - Drilling**

Drilling	4000	m @	\$150	\$600,000
Subtotal				\$600,000
Contingency ~10%				\$60,000
Phase II Total				\$660,000

**Phase I & II Total** **\$1,128,903**

## Certificate of Qualifications

I, Mark Fekete, having my place of residence at 178 Dennison Boulevard in Val d'Or in the Province of Quebec do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from the University of British Columbia in 1986, I have been engaged as a Geologist continuously since 1986 and I am a Member in good standing of the Order of Geologists of Quebec (OGQ #553) and the Association of Professional Engineers and Geoscientist of British Columbia (APEGBC #31440), and I am a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Raney Project on numerous occasions including most recently in March 2008;
3. I co-wrote and am jointly responsible for the contents of this technical report entitled "Report of Drilling, Raney Property, Porcupine Mining Division, Ontario, NTS Sheet 41O15, N47°52', W082°48'" based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I am an officer and director and I beneficially hold a number of shares in Hinterland Metals Inc.;
6. I hold no direct interest in the Raney Project as a result of my prior involvement with the properties; and
7. I have read, and this report has been prepared in full compliance with National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 21<sup>st</sup> day of April 2008,

(s) "**Mark Fekete**"

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Mark Fekete, P.Geol.

## Certificate of Qualifications

I, Jennifer Simper, having my place of residence at 1712, 3500 Varsity Drive NW in Calgary in the Province of Alberta do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from the University of Calgary in 2006, I have been engaged as a Geologist continuously since 2006 and I am a Member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA #M79249).
2. I am a “Geologist in Training” and therefore I am not a “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
3. I have visited the Raney property on numerous occasions including most recently in March 2008;
4. I co-wrote and am jointly responsible for the contents of this technical report entitled “Report of Drilling, Raney Property, Porcupine Mining Division, Ontario, NTS Sheet 41O15, N47°52' W082°48” based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
5. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
6. I am not a director nor officer nor do I beneficially hold a number of shares in Hinterland Metals Inc.;
7. I hold no direct interest in the Raney property as a result of any prior involvement with the property; and
8. I have read, and this report has been prepared in full compliance with National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 21<sup>st</sup> day of April 2008,

(s) “*Jennifer Simper*”

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Jennifer Simper, BSc.

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## **1 Introduction and Terms of Reference**

Breakaway Exploration Management Inc. (“Breakaway”) was engaged by Hinterland Metals Inc. (“Hinterland”) to manage a diamond drill program on the Raney Gold project in Ontario. This technical report presents the results of the 758m drill program and was prepared specifically to fulfill statutory assessment work requirements of the Ontario Mining Act, and in full compliance with National Instrument 43-101 and according to Form 43-101F1. Sources of information and data contained in this report or used in its preparation are cited throughout where applicable. Both authors have visited and personally inspected the property on several occasions in the course of the work described in this report.

The metric system is used for all units of measure mentioned in this report and all dollar amounts are in Canadian funds unless otherwise stated. All figures presented in this report are plotted in map projection UTM NAD 83, Zone 17 unless otherwise stated.

## **2 Reliance on Other Experts**

The authors may have in part relied on technical data and interpretations found in various sources cited throughout the report. The authors may not have verified this information and take no responsibility for its accuracy or completeness. The authors do not offer any opinion concerning and take no responsibility for any legal, title, environmental, political or other non-technical issues that may be relevant to the technical report. This report contains links to several web-sites. The authors take no responsibility for the security, accuracy or availability of these web-sites.

## **3 Location and Property Description**

The Raney property covers a total area of 230ha and is located approximately 110 km southwest of Timmins, Ontario and appears on NTS Map Sheet 41O15 (Figure 1). The approximate geographic centre of the property is described by 47°52' North Latitude and 082°48" West Longitude. The most obvious topographical feature is Raney Lake which touches the west boundary of the property (Figure 2).

The Raney property includes six staked claims located in Raney Township within the Porcupine Mining Division of Ontario (Figure 3). The mineral titles for the property are fully described in Appendix A. Surface rights for the area of the property are held by the Crown.

By way of an option agreement (the “Option Agreement”) signed November 5, 2007 with Larry and Joe-Anne Salo of South Porcupine, Ontario and William Brereton of Ancaster, Ontario (collectively the “Vendor”), Hinterland acquired the right to earn 100% interest in the Raney property for total consideration of \$90,000 cash and 300,000 treasury shares as scheduled as follows:

- |      |                          |               |                     |
|------|--------------------------|---------------|---------------------|
| i.   | Upon Regulatory approval | \$30,000 cash | 100,000 shares;     |
| ii.  | November 5, 2008         | \$30,000 cash | 100,000 shares; and |
| iii. | November 5, 2009         | \$30,000 cash | 100,000 shares.     |

The Vendor retains a two-part production royalty (the “Royalty”) consisting of a 2.5% Net Smelter Returns royalty on smeltable materials and a 2.5% Gross Overriding Receipts royalty on diamonds. Hinterland has the right to buy back the first 1.5% of the Royalty for \$1,500,000 and has the further right of first refusal on the remaining 1.0%.

The authors are not aware of any other royalties, back-in rights, payments, other agreements or encumbrances to which the property may be subject. The authors are not aware of any environmental liabilities to which the property may be subject. The authors are not aware of any mineral resources, mineral reserves, mine workings, tailing ponds, waste deposits or other improvements within or adjacent



to the outside boundaries of the property. The property is at the “grassroots” stage of development and has only several rudimentary surface mineral showings.

#### 4 Accessibility, Local Resources, Infrastructure, Physiography and Climate

Good vehicle access is provided to the Raney property from Timmins by Ontario Provincial Highway 101 and then by a series of forestry service roads (Figure 2). The main forestry road leaves Highway 101 approximately 10 km east of the village of Foleyet, and proceeds south, eventually intersecting Ramsey Road in Coppell Township. At 45km south of the highway, the road splits and becomes Foleyet Timber (“FT”) Service Road #105, and proceeds past the Foleyet Timber Camp where it becomes FT Service Road #216. At Km 14, FT Service Road #418 branches to the right and continues directly into the property. A number of skidder trails provide direct access throughout the area of the property.

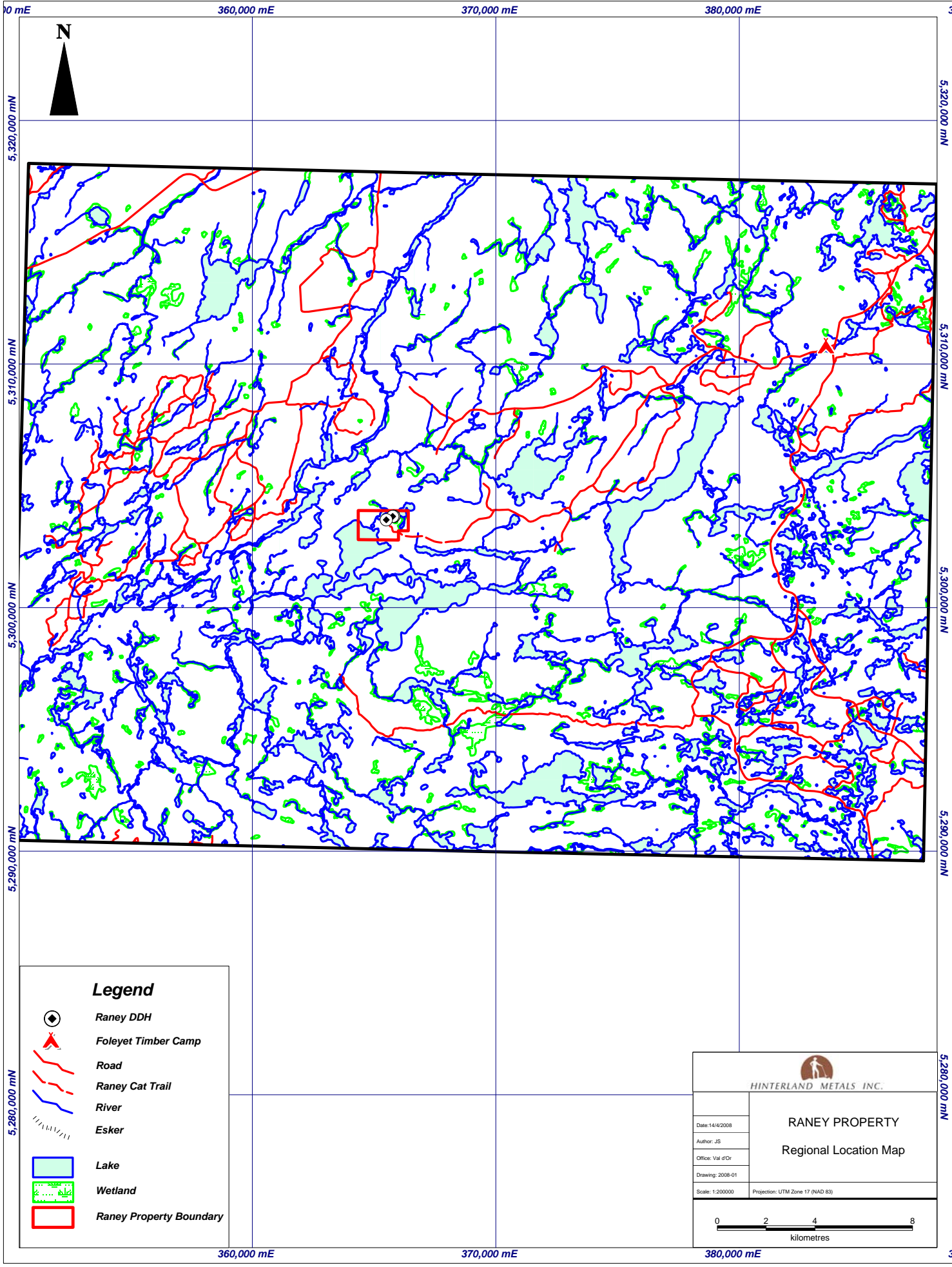
The area has well developed local resources and a strong mining infrastructure. The Raney property is approximately two hours by truck from Timmins where lodgings, supplies and general services are readily available. All contract exploration services including line-cutting, prospecting, geological, geophysical, trenching, analytical, drafting and drilling are readily available in Timmins.

The Raney property lies at an average elevation of 390m above sea level. Generally it is flat and swampy with several meandering creeks that drain south-westerly into Raney Lake. Clear-cut logging has been done over most of the claim block within the last ten years. Secondary growth in these clear-cuts is still relatively sparse. Forested areas are covered by black spruce, grey pine and some birch and poplar. Alder and willow is found adjacent to the creeks. Rock outcrops are variable within the property, but are most often found at higher elevations.










The region is characterized by a typical continental boreal climate with hot, moderately humid summers and cold, dry winters with maximum snow accumulations of several metres. Exploration work can easily be accomplished at any time during the year.


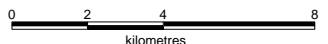
Figure 1 - General Location Map

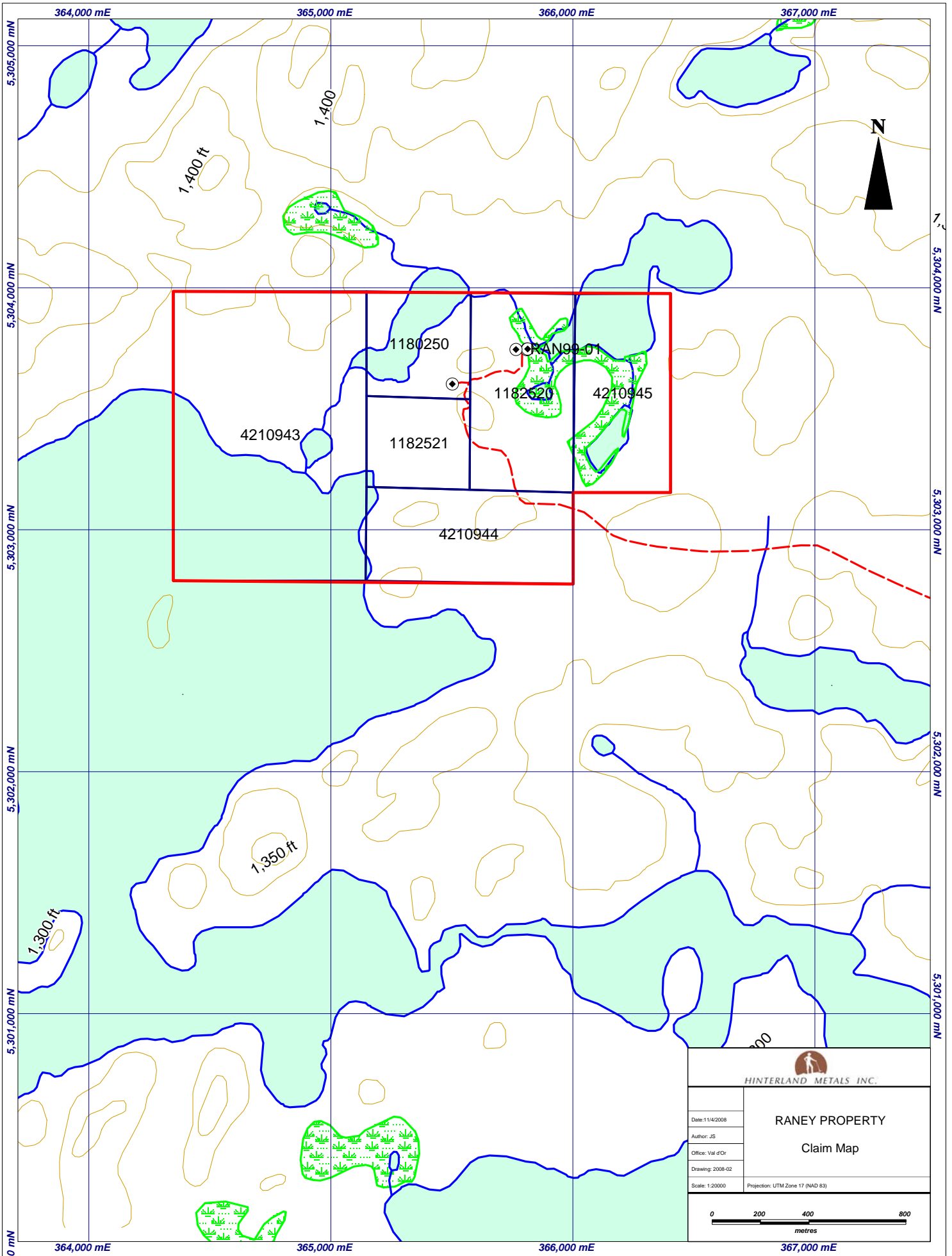



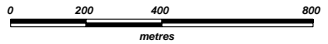


**Legend**

-  Raney DDH
-  Foleyet Timber Camp
-  Road
-  Raney Cat Trail
-  River
-  Esker
-  Lake
-  Wetland
-  Raney Property Boundary

 HINTERLAND METALS INC.	
<b>RANEY PROPERTY</b> Regional Location Map	
Date: 14/4/2008	
Author: JS	
Office: Val d'Or	
Drawing: 2008-01	
Scale: 1:200000	Projection: UTM Zone 17 (NAD 83)
 0 2 4 8 kilometres	



 <b>HINTERLAND METALS INC.</b>	
<b>RANEY PROPERTY</b> <b>Claim Map</b>	
Date: 11/4/2008	
Author: JS	
Office: Val d'Or	
Drawing: 2008-02	
Scale: 1:20000	Projection: UTM Zone 17 (NAD 83)
	

## **5 Exploration History**

The following exploration history of the Raney property has been compiled from the Assessment File Research Imaging (AFRI), OGS Publications (OGS PUB), Mineral Deposits Inventory (MDI), and Drill Hole Database (DDH) database available at [www.geologyontario.mndm.gov.on.ca](http://www.geologyontario.mndm.gov.on.ca). Further information on historical work can be acquired at the Ministry of Northern Development and Mines Library in Sudbury and at the MNDM offices in Timmins. Four distinct exploration campaigns have been conducted by various companies and prospectors over the past eight decades.

### **1932-1935: Raney Lake Prospecting Syndicate**

The Raney Lake Prospecting Syndicate was reported to have conducted exploration work within the area of the current property from 1932 to 1934 (Furse, 1932 and Rickaby, 1934). A group of 35 claims northeast of Raney Lake was staked, prospected and explored by selective trenching. The No. 1 and No. 2 “Thorne-Greaves” gold showings were discovered and exposed during this period. No gold values however were reported.

### **1972-1985: J-Dex Mining and Exploration Ltd.**

J-Dex Mining and Exploration Ltd. initially reported work in the area from 1972 to 1979. Most of this work was focused on a block of claims situated to the south of the present property near the north shore of Denyes Lake. Baker (1979) reported that one 66m Winkie drill hole was drilled in the vicinity of the Thorne-Greaves No. 1 showing and reported the occurrence of visible gold in two small quartz-carbonate veinlets. However no gold assays was reported over the intervals in which these veinlets were logged.

From 1982 to 1984 J-Dex continued work with geophysical, geological mapping and re-sampling surveys (Caira & Coster, 1984) followed by a shallow Winkie drilling program consisting of 11 holes for 615m (Caira, 1984). This work was done mainly at the No. 1 showing. Assays up to 34.0g/t were reported from surface re-sampling but more commonly values were much lower. Seven holes were positioned at three collar locations to test the showing. These holes cut the vein zone at very shallow depths with intersections up to 4.79m of 2.16g/t Au and 2.36m of 1.21g/t Au. The highest individual assay was 28.0g/t Au over 0.3m where visible gold was observed. Four other holes were drilled from a single collar location to investigate VLF-EM anomalies located to the northwest of the showing.

### **1986-1988: Goldrock Resources Inc.**

In 1986 J-Dex expanded its original property to 72 claims and formed a joint venture with Goldrock Resources Inc. and Glen Auden Resources Inc. Goldrock as the operator completed induced polarization, magnetic, VLF-electromagnetic and litho-geochemical surveys over approximately 15km of grid covering most of the present property (Hodges, 1986). Unfortunately these surveys did not include the critical, swampy area immediately to the east of the No. 1 showing.

In 1988 13 Winkie drill holes totalling 376m were done to test some chargeability anomalies, as well as some magnetically and geologically inferred structures in the area of the No. 2 gold showing (Abernethy, 1989a,b,c). The drilling encountered undue difficulties. Many of the planned targets were never intersected, and for the most part, remain untested. No assay values were reported in the applicable assessment reports. MPH Consulting Ltd. (1993) references a personal communication with R. Middleton indicating that values were generally low.

### **1991 to 1999: Salo, Salo & Brereton**

In 1991 Joe-Anne Salo staked the initial claims that form part of the current property. Ms Salo and her partners, Larry Salo and William Brereton, have worked the property intermittently since then. In 1991 the old trenches at the No.1 and No.2 showings were cleaned out and re-sampled and geological mapping was done over the property (Salo, 1992).

In 1993 the property was optioned to Cree Lake Resources Corp. and a program of geological mapping, rock sampling and soil geochemistry was done over a larger area that included the current property (MPH Consulting Ltd., 1993). The re-sampling confirmed previous values obtained at the two showings. Soil geochemistry outlined a broad zone of weakly anomalous gold-in-soils over the No. 2 showing that was found to be coincident to chargeability anomalies defined previously by Goldrock. Also a compilation of the 1984 J-Dex drilling led to the interpretation that the gold-bearing structure at the No. 1 showing had better potential to the east. Cree Lake did no more work on the claims and dropped the option.

In 1999 the partners drilled 251m in one hole to test the idea that the gold-bearing structure at the No. 1 showing was improving to the east (Brereton, 1999b). The hole successfully intersected gold values in two parallel zones separated by approximately 20m. The first zone returned 0.84g/t Au over 7.0m from 127.0 to 134.0m including 2.50g/t over 1.0m from 131.0 to 132.0m. The second zone returned 2.76g/t Au over 9.4m from 150.9 to 160.3m including 3.37g/t Au over 6.8m from 153.0 to 159.8m.

Oosterman (2005) prepared a compilation of previous work and re-logged and sampled the hole drilled in 1999 in order to evaluate the gold potential of the property for Wallbridge Ming Co. Ltd. The re-sampling returned 3.85g/t Au over 5.9m from within the lower zone.

Table 1 below lists all known assessment reports that describe work done within the boundaries of the present property in whole or in part. A summary of the previous drill data is compiled in Table 2 below and in Figure 4.

**Table 1 - Previous Work - Assessment Reports**

AFRI No.	Company	Year	Work Done	Drilling	Connect
41O15SW0025	J-DEX MINING & EXPL LTD	1973	GEOCHEMICAL , INDUCED POLARISATION , MAGNETOMETER	No	<a href="#">41O15SW0025</a>
41O15SW0019	D O BAKER	1979	GEOCHEMICAL , DIAMOND DRILLING	Yes	<a href="#">41O15SW0019</a>
41O15SW0013	DEJOUR MINES LTD	1983	GEOCHEMICAL, GEOLOGICAL	No	<a href="#">41O15SW0013</a>
41O15SW0010	J-DEX MNG & EXPL	1985	GEOCHEMICAL, GEOLOGICAL	No	<a href="#">41O15SW0010</a>
41O15SW0009	J-DEX MINING & EXPL LTD	1986	INDUCED POLARISATION, MAGNETOMETER, ELECTROMAGNETIC VERY LOW FREQUENCY	No	<a href="#">41O15SW0009</a>
41O15SW0003	GOLDROCK RESC INC	1987	GEOCHEMICAL	No	<a href="#">41O15SW0003</a>
41O15SW0007	GOLDROCK RESC INC	1987	ELECTROMAGNETIC, MAGNETOMETER	No	<a href="#">41O15SW0007</a>
41O15SW0008	GOLDROCK RESC INC	1987	MAGNETOMETER	No	<a href="#">41O15SW0008</a>
41O15SW0540	GOLDROCK RESC INC	1987	ELECTROMAGNETIC, MAGNETOMETER	No	<a href="#">41O15SW0540</a>
41O15SW0002	GOLDROCK RESC INC	1988	MAGNETOMETER	No	<a href="#">41O15SW0002</a>
41O15SW0001	GOLDROCK RESC INC	1989	DIAMOND DRILLING	Yes	<a href="#">41O15SW0001</a>
41O15SW0004	GOLDROCK RESC INC	1989	DIAMOND DRILLING	Yes	<a href="#">41O15SW0004</a>
41O15SW0006	GOLDROCK RESC INC	1989	DIAMOND DRILLING	Yes	<a href="#">41O15SW0006</a>
41O15NW0004	J SALO	1992	GEOLOGICAL , BEDROCK TRENCHING	No	<a href="#">41O15NW0004</a>
41O15SW9210	J SALO	1992	GEOLOGICAL	No	<a href="#">41O15SW9210</a>
41O15NW0003	CREE LAKE RESC CORP	1993	GEOCHEMICAL, GEOLOGICAL , DIAMOND DRILLING , PROSPECTING BY LICENCE HOLDER	Yes	<a href="#">41O15NW0003</a>
41O15SW0029	CREE LAKE RESC CORP	1993	ASSAYING AND ANALYSES , GEOCHEMISTRY , GEOCHEMICAL , GEOLOGICAL , PROSPECTING BY LICENCE HOLDER (\$150 PER DAY)	No	<a href="#">41O15SW0029</a>
41O15SW2008	JOE-ANNE SALO	1999	ASSAYING AND ANALYSES , DIAMOND DRILLING	Yes	<a href="#">41O15SW2008</a>

**Table 2 - Previous Work - Diamond Drill Holes**

DDH No.	UTM East	UTM North	Depth	OVB Depth	Azimuth	Dip	Year Drilled	Company	ARFI No.
DL-1-60	365688	5303761	66.46	0	135	-60	1978	D BAKER	41O15SW0019
R88-1	365478	5303357	41.77	13.57	180	-50	1988	GOLDROCK RES INC	41O15SW0004
R88-2	365668	5303253	32.01	10.37	180	-50	1988	GOLDROCK RES INC	41O15SW0004
R883A	365648	5303545	16.77	7.62	180	-50	1988	GOLDROCK RES INC	41O15SW0004
R883B	365646	5303548	21.34	3.05	180	-60	1988	GOLDROCK RES INC	41O15SW0004
R883C	365648	5303549	47.26	5.18	180	-50	1988	GOLDROCK RES INC	41O15SW0006
R884	365650	5303679	33.54	3.66	180	-50	1988	GOLDROCK RES INC	41O15SW0006
R885	365508	5303618	27.44	2.74	180	-50	1988	GOLDROCK RES INC	41O15SW0006
R886A	365654	5303679	34.45	5.18	180	-50	1988	GOLDROCK RES INC	41O15SW0001
R886B	365651	5303677	12.68	4.57	180	-60	1988	GOLDROCK RES INC	41O15SW0001
R887	365508	5303623	41.16	17.99	180	-50	1988	GOLDROCK RES INC	41O15SW0001
R88-8	365554	5303614	31.4	11.89	180	-50	1988	GOLDROCK RES INC	41O15SW0001
R889A	365597	5303586	20.73	9.6	180	-50	1988	GOLDROCK RES INC	41O15SW0001
R889B	365595	5303584	15.24	2.13	180	-50	1988	GOLDROCK RES INC	41O15SW0001
84-15EA	365803	5303657	74.7	0	210	-45	1984	J-DEX MINING AND EXPL	41O15SW0012
84-15EB	365801	5303654	65.85	0	210	-67	1984	J-DEX MINING AND EXPL	41O15SW0012
84-15WA	365776	5303671	64.94	0	210	-45	1984	J-DEX MINING AND EXPL	41O15SW0012
84-15WB	365775	5303669	60.06	0	210	-70	1984	J-DEX MINING AND EXPL	41O15SW0012
84-30EA	365818	5303655	56.71	0	210	-45	1984	J-DEX MINING AND EXPL	41O15SW0012
84-30EB	365818	5303652	60.67	0	210	-65	1984	J-DEX MINING AND EXPL	41O15SW0012
84-30EC	365816	5303654	55.18	0	190	-65	1984	J-DEX MINING AND EXPL	41O15SW0012
84-450NA	365560	5303805	56.4	0	215	-50	1984	J-DEX MINING AND EXPL	41O15SW0012
84-450NB	365560	5303804	49.54	0	215	-65	1984	J-DEX MINING AND EXPL	41O15SW0012
84-450NC	365558	5303802	37.5	0	35	-65	1984	J-DEX MINING AND EXPL	41O15SW0012
84-450ND	365557	5303803	33.64	0	35	-50	1984	J-DEX MINING AND EXPL	41O15SW0012
R-99-1	365811	5303747	251	17	180	-60	1999	JOE-ANNE SALO	41O15SW2008

## 6 Geological Setting

The Raney property is located within the Swayze Greenstone Belt, which regionally represents the western most extremity of the Abitibi Sub-province of the Canadian Shield. The Swayze area is one of Ontario's historic gold areas and has seen prospecting for a variety of metals.

Locally the Swayze belt can be broadly described as an arc-like volcano-sedimentary greenstone belt of Achaean age, convex to the west, extending from Sewell Township in the northeast, throughout Swayze Township in the central region, to Groves Township in the southeast. The Swayze belt is separated from the Abitibi Belt by a series of late granodiorite/monzonite batholiths and north to northwest striking faults. The rocks of the Swayze belt have been recognized as the first major reappearance of greenstones west of the Porcupine gold camp, which has historically produced in excess of 60 million ounces of gold.

The Raney property is underlain dominantly by felsic to intermediate pyroclastic rocks, with bands of dark very fine argillaceous material (Figure 5). The degree of alteration is variable, and mostly occurs as sericite-carbonate and silica-flooding. The latter is often found in conjunction with a high degree of quartz-carbonate veining. Two of the holes drilled in this program intersected zones of quartz feldspar porphyry and a narrow lamprophyre dyke, both of which intrude into the surrounding layered rocks.

## **7 Deposit Types**

The gold-silver mineralization found on the property is described very generally as a lode gold deposit type. Poulsen (1996) notes that lode gold occurs in Canada in a wide variety of geological settings and ore deposit types. Robert (1986) reports that the most economically important sub-type found in Canada is Archean quartz-carbonate vein gold. Archean lode gold deposits consist of simple to complex quartz-carbonate systems associated with brittle to ductile shear zones and folds in deformed and weak to moderately metamorphosed volcanic, sedimentary and granitic rocks. Gold occurs in veins or as disseminations within the quartz-carbonate veins or in the adjacent altered wall rock. The gold may occur with pyrite, chalcopyrite or other sulphide minerals but generally it is the only significant economic commodity present.

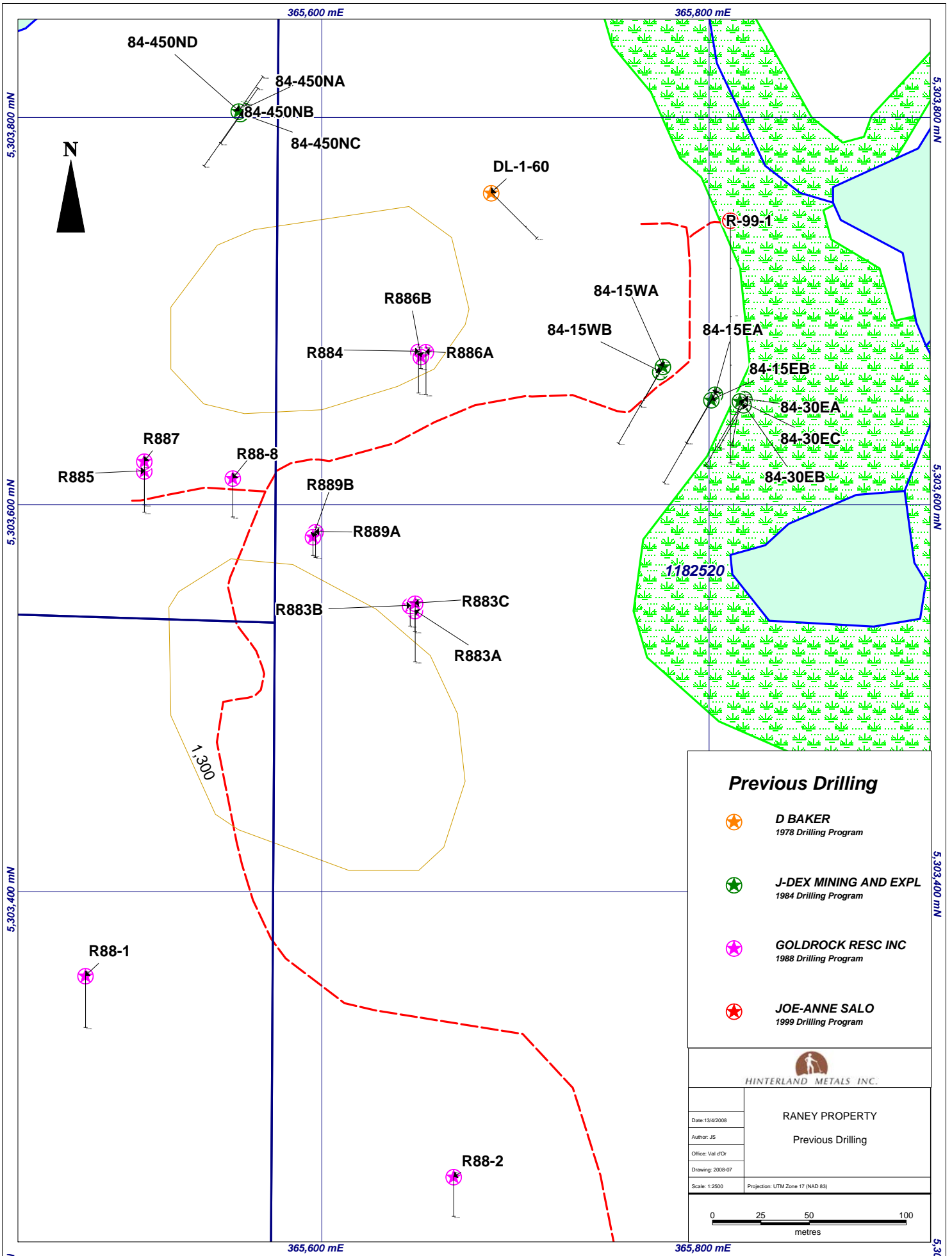
The Abitibi Greenstone Belt is historically the most prolific Archean terrane in Canada with documented gold production from numerous deposits ranging from 2 to 1000 tonnes (Hodgson, 1993). This production has come mainly from several well known camps including Porcupine and Kirkland-Larder Lake in Ontario and Bousquet-Cadillac, Malartic and Val d'Or in Quebec.

Known gold mineralization in the Swayze belt is typically of quartz-carbonate vein sub-type and is generally controlled by zones of shearing and fracturing with associated sulphides and carbonate alteration. Sulphides typically include pyrite and any or all of pyrrhotite, chalcopyrite, galena and sphalerite. There appears to be a strong correlation between felsic porphyry intrusions and gold mineralization in various parts of the Swayze belt.





## **8 Mineralization**


The Raney Lake gold property hosts two discrete gold showings collectively referred to in the past as the Thorne-Greaves gold showing. The first showing is generally known as the No. 1 showing but is often called the "Northeast" or "Tuff" showing. At surface gold is found in a 3 to 90cm thick quartz vein within dacite crystal tuffs and feldspar porphyry. The vein contains up to 1% disseminated sulphides as pyrite and chalcopyrite. Visible gold has been reported in the vein previously. Silica flooding can be observed in the adjacent volcanics, as well as 10 to 15mm wide carbonate veinlets. The host rock exhibits pervasive sericite, carbonate and pyrite alteration. Historical assays of up to 1.0 g/t Au have been taken from the alteration envelope. Historical assays of up to 34.0g/t Au have been reported from the quartz vein. Oosterman (2005) reported 8.6g/t Au from a grab sample of the feldspar porphyry at this showing. The drilling completed in 1999 clearly indicated two parallel gold-bearing zones in the subsurface (Brereton, 1999b).

The second showing is located roughly 300m southwest of the first one. This showing is generally known as the No. 2 showing but is often called the "Southwest", "Porphyry" or "FP" showing. It is hosted in variably sheared and altered quartz feldspar porphyry. A 2-15cm, gold-bearing quartz vein characterizes the showing and it is marked by 1 to 3% disseminated pyrite, galena, and rare visible gold. Alteration in the host rocks defines a narrow zone that is intensely sheared with quartz-carbonate veinlets and marked by strong pervasive sericite, carbonate and pyrite alteration. Historical assays up to 27g/t have been reported from samples of the vein material. More recent sampling has failed to repeat significant gold values (Brereton, 1999a&b and Oosterman, 2005).

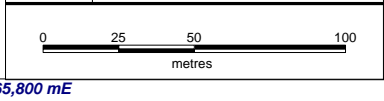


**Previous Drilling**

-  **D BAKER**  
1978 Drilling Program
-  **J-DEX MINING AND EXPL**  
1984 Drilling Program
-  **GOLDROCK RESC INC**  
1988 Drilling Program
-  **JOE-ANNE SALO**  
1999 Drilling Program

  
**HINTERLAND METALS INC.**

Date: 13/4/2008	<b>RANEY PROPERTY</b> Previous Drilling
Author: JS	
Office: Val d'Or	
Drawing: 2008-07	
Scale: 1:2500	Projection: UTM Zone 17 (NAD 83)





365,000 mE

370,000 mE

5,310,000 mN

5,310,000 mN

N



5,305,000 mN

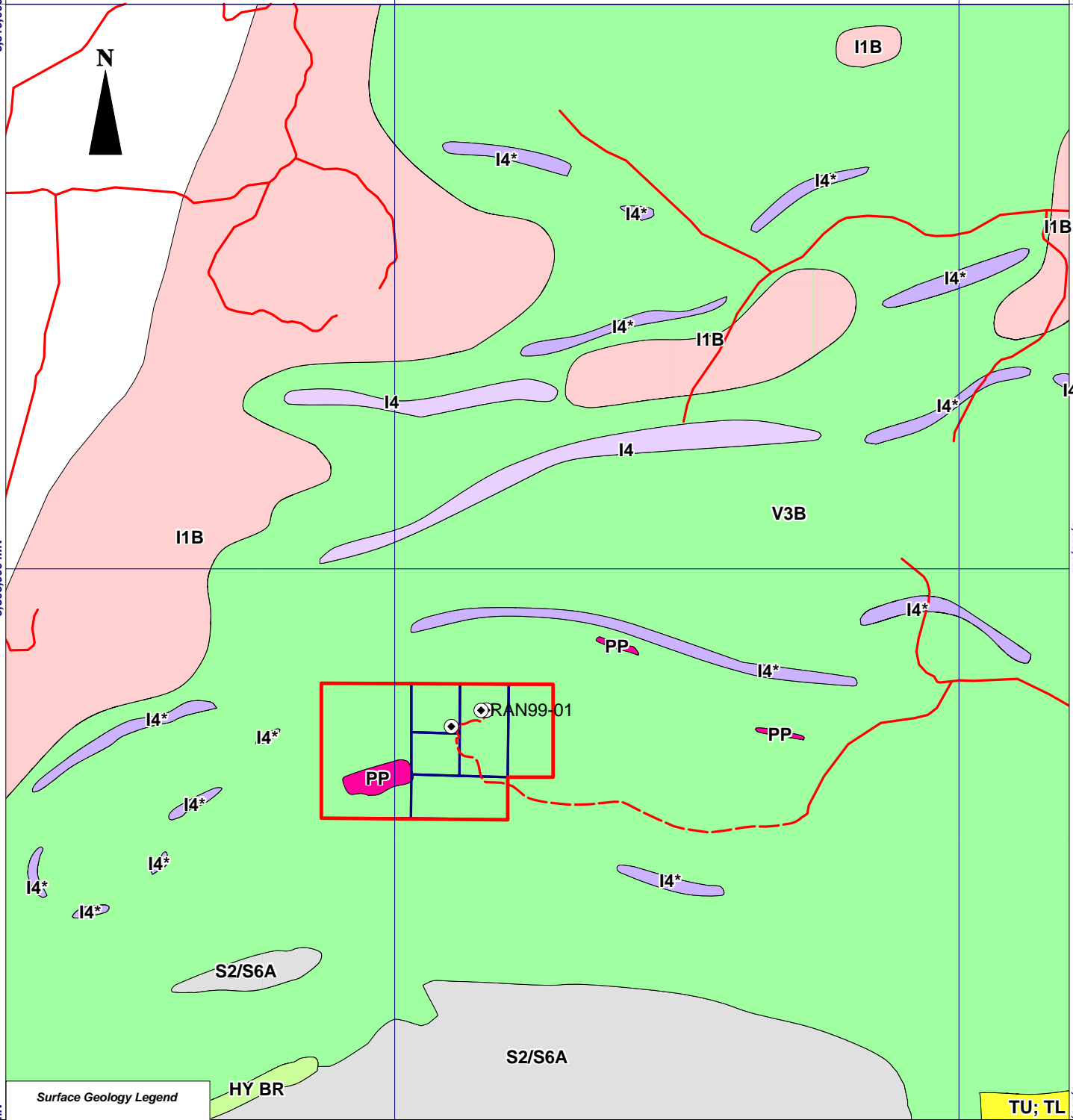
5,305,000 mN

5,300,000 mN

5,300,000 mN

365,000 mE

370,000 mE



**Surface Geology Legend**

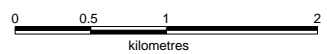
- HY BR  
Hydroclastic Flow Breccia
- I1B  
Granite
- I4  
Ultramafic Intrusion
- I4\*  
Ultramafic Inferred
- PP  
Porphyry
- S2/S6A  
Arenite & Siltstone/Mudstone
- TU; TL  
Tuff & Lapilli Tuff
- V3B  
Basalt: Tholeiitic Basalt: Pillowed Flows



**RANEY PROPERTY  
Regional Geology Map**

Date: 12/4/2008  
 Author: JS  
 Office: Val d'Or  
 Drawing: 2008-03  
 Scale: 1:50000

Projection: UTM Zone 17 (NAD 83)



## **9 2007-2008 Diamond Drilling Program**

### **9.1 Introduction**

The drilling, including preparations and demobilization, was done from December 15, 2007 to January 15, 2008 under the local supervision of Project Geologist Jennifer Simper, B.Sc. (“Simper”) of Calgary, Alberta. Ms Simper was directed by Mark Fekete, P.Geo. (“Fekete”) of Val d’Or, Quebec: the designated “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101 responsible for the Raney Project. A total of 758m of NQ-diameter core drilling was completed in four holes. The drilling contractor was 2019491 Ontario Inc. of Timmins, Ontario. The core was logged and sampled by Simper, and split by geological technician Martin Boulet (“Boulet”) of Val d’Or, Quebec. Food and lodging for the drill crew was provided at the Foleyet Timber Camp. The geological crew stayed at a private residence in Shining Tree, Ontario during the drilling stage of the program. In March 2008 the geological crew stayed at the Three Bears Camp in Shining Tree during the core logging and sampling stage of the program.

All drill collar locations were recorded with a Garmin 76CX GPS receiver in map datum UTM NAD 83 Zone 17. Collar locations, dips, azimuths and depths are summarized in the table included as Appendix B. Drill logs are included as Appendix C.

The primary goal of the drilling was to test the extensions of the two parallel gold-bearing structures intersected in hole R-99-01 at the No.1 showing. One hole was also drilled to test the No. 2 showing.

### **9.2 Sampling and Analytical Procedures**

Drill core was delivered to the core shack on a per shift basis by the drill contractor in sealed core boxes. All sample intervals were recorded in the core logs and marked in the core boxes with numbered water proof tags stapled at the beginning of the sample interval. The core was split with a hydraulic core splitter. One-half of each split core sample interval was returned to its appropriate core box location. The remainder of each sample was placed with the appropriate sample tag in a plastic sample bag marked in indelible ink with the proper sample number and sealed with a plastic tie-wrap. Batches of samples were subsequently sealed in rice bags with security plastic tie wraps bearing unique serial numbers. The samples were delivered to Bourlamaque Assay Laboratories Ltd. in Val d’Or, Quebec for analysis. A shipping manifest was sent with each batch of samples.

Bourlamaque is not accredited but it is independent of Hinterland, maintains an internal quality control program and participates annually in CANMET round-robin proficiency testing. Gold values were determined by conventional 30g fire assay-atomic absorption finish method. Silver values were determined by partial aqua regia digestion-atomic absorption finish method. Samples above detection limits were re-assayed by gravimetric finish. Assay results are included as Appendix D and a detailed description of the analytical procedures followed by Bourlamaque is included as Appendix E.

It is the authors’ opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the drill core samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The authors have relied upon the adequacy and accuracy of the analytical results and independent verification of those results as discussed below.

### **9.3 Data Verification**

The drill core sampling was done according to a QA/QC protocol, independently designed and monitored by consulting Geologist Tracy Armstrong, P.Geo. of Magog, Quebec. Samples were organized into batches of 24 samples that contained one reference standard, one field duplicate and one blank sample.

Each batch was subsequently sealed into three rice bags with security plastic tie wraps. One of two reference standards (Appendix F) was inserted into each batch on an alternate basis (i.e. every second batch). Blank core was unavailable due to the early stages of exploration on the property, so President's Choice™ Silica Crystals were used as a substitute. Armstrong (2008) did not report any abnormalities with the sample results.

#### 9.4 Drill Results

Three holes were drilled at the No.1 showing to test the gold-bearing intervals intersected in R-99-01 (Figure 6). The first hole, RAN07-02 was lost at 99.1m. Holes RAN07-03 and RAN08-04 both hit the intended targets. Hole RAN08-05 was drilled to test the quartz feldspar porphyry at the No.2 surface showing (Figure 6).

Generally the geology intersected by the drilling is quite simple, consisting of finely laminated ash tuff with narrow layers of black, very fine-grained siltstone, beds of fine grained crystal tuff and variably coarse lapilli tuff. Zones of silica flooding occur throughout and often are found in conjunction with the best gold mineralization values. These zones are often associated with variable quartz-carbonate veining that may or not have any associated sulphide mineralization. Narrow intervals of strongly sericite altered "crackle breccia" were intersected in RAN08-04 and -05 but they proved to be poorly mineralized. RAN08-03 intersected an interval of pyroclastic breccia at the bottom of the hole which was not found in any of the other holes. This unit consists of dark grey angular fragments of crystal & ash tuff varying in size from 0.5mm to ~4cm cemented in quartz and ash tuff matrix. It contains minor quartz flooding in places with no significant visible mineralization. Drill hole R-99-01 intersected an interval of mafic lamprophyre dyke that was also intersected in RAN08-04. The lamprophyre dyke is black, fine grained and massive with chlorite alteration at the lower contact. It is also marked by sharply defined upper and lower contacts. Quartz feldspar porphyry was intersected in holes RAN08-04 and -05. The porphyry tends to be medium grained and non-foliated with variable degrees of sericite alteration and minor mineralization throughout.

Significant gold values were intersected in two of the three holes drilled at the No. 1 showing. The two parallel zones intersected in R-99-01, were again intersected in holes RAN07-03 and RAN08-04, however the mineralization proved to be somewhat variable as well as the gold grades. RAN08-04 returned the best samples with maximum grades of 14.95g/t Au from 109.7 to 110.7m and 4.9g/t Ag from 110.7 to 111.4m. Generally the elevated gold values are found within the ash and crystal tuffs with high degrees of silica flooding and/or moderate quartz-carbonate veining. Strong local sericite and/or chlorite alteration, typically found at the margins of the quartz-carbonate veins, as well as fine-grained disseminated sulphide mineralization is also quite common in the gold bearing intervals.

RAN08-05 was intended to collar in the volcanics and intersect quartz feldspar porphyry at depth. However it was collared in the porphyry and therefore only the lower contact with the underlying ash-crystal tuff was intersected. The porphyry-volcanic contact was quite sharp and was not marked by any anomalous quartz-carbonate veining, alteration or mineralization. Sample values across this contact were low. Consistently low gold grades were also returned from samples well within the porphyry indicating that it is not particularly enriched with gold. The porphyry does contain disseminated sulphides consisting mainly of pyrite, chalcopyrite and pyrrhotite.

Significant weight averaged intersections from the drilling are listed in the following table.

**Table 3 - Significant Intersections 2007-2008 Drilling**

<b>Hole No.</b>	<b>Zone</b>	<b>From m</b>	<b>To m</b>	<b>Int. m</b>	<b>Au g/t</b>	<b>Ag g/t</b>
RAN08-03	Upper	202.9	204.4	1.5	1.62	0.27
	Incl.	202.9	203.7	0.8	2.20	0.50
	Lower	222.5	225.5	3.0	2.05	0.23
	Incl.	224.5	225.5	1.0	6.04	0.70
RAN08-04	Upper	80.2	86.2	6.0	0.80	0.00
	Incl.	81.2	82.2	1.0	2.09	0.00
	Lower	109.7	125.2	15.5	2.76	0.51
	Incl.	109.7	111.4	1.7	13.77	4.06

## **10 Adjacent Properties**

No serious amount of exploration work has been completed on any adjacent properties.

## **11 Mineral Processing and Metallurgical Testing**

To date no mineral processing or metallurgical testing has been completed on the Raney property.

## **12 Mineral Resource and Mineral Reserve Estimates**

To date no mineral resource or mineral reserve estimates have been completed on the Raney property. The property is at a “grassroots” level of exploration such that it is too early to make any resource or reserve estimates.

## **13 Other Relevant Data and Information**

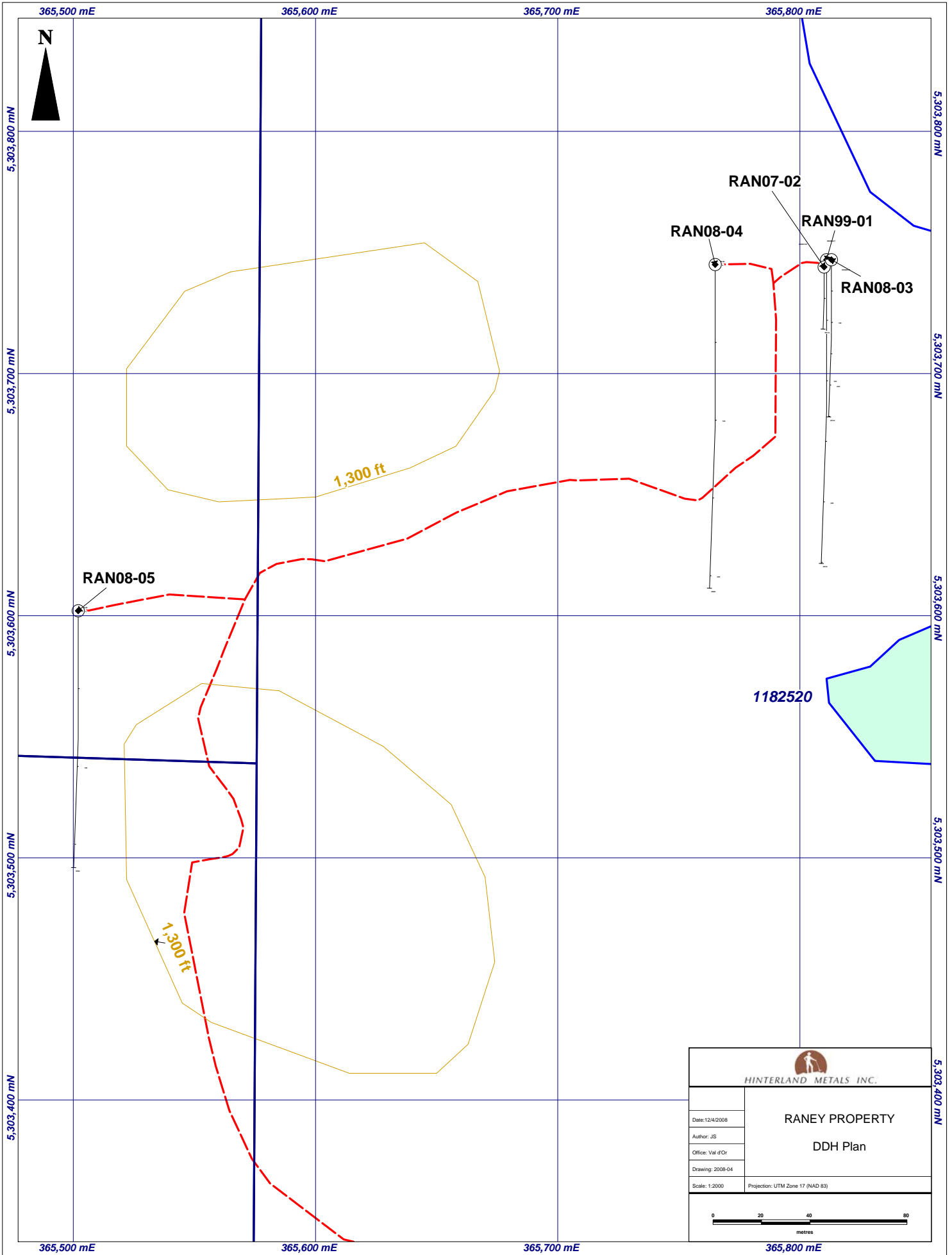
The authors are not aware of any other relevant data and information or explanation to make this report more understandable and not misleading.

## **14 Interpretation of Results and Conclusions**

The drill campaign completed by Hinterland met its primary goal of confirming the gold results obtained in the 1999 drilling at the No. 1 showing. The gold mineralization definitely occurs in two distinct, parallel, east-trending zones separated by approximately 20m. (Figure 7). The gold-bearing zones are hosted within well-layered crystal and ash tuffs, and are marked by quartz-carbonate veining and/or silica flooding and sericite and/or chlorite alteration. They appear to dip steeply to the north. The “Lower” zone shows higher gold and silver grades than the “Upper” zone. The best intersection encountered was 2.76g/t Au and 0.51g/t Ag over 15.5m from 109.7 to 125.2m, including 13.77g/t Au and 4.06g/t Ag over 1.7m from 109.7 to 111.4m, in hole RAN08-04 within the Lower zone. It appears at this stage that the gold-bearing structures are improving to the east from the No. 1 surface showing. Exploration should be focused on testing the eastern extent of the gold mineralization.

The quartz-feldspar porphyry, volcanic contact intersected by the single drill hole completed at the No.2 does not appear to be mineralized (Figure 8). This area does not seem to be as interesting as the No. 1 showing. Less focus should be put on this area.

The gold mineralization is typical of lode gold deposits in the Archean Sub-province and is therefore prospective for the discovery of an economic concentration of gold similar to deposits that have been exploited in the past or are currently being mined.



365,500 mE

365,600 mE

365,700 mE

365,800 mE



5,303,800 mN

5,303,700 mN

5,303,600 mN

5,303,500 mN

5,303,400 mN

5,303,800 mN

5,303,700 mN

5,303,600 mN

5,303,500 mN

5,303,400 mN

RAN07-02

RAN08-04

RAN99-01

RAN08-03

RAN08-05

1,300 ft

1,300 ft

1182520



HINTERLAND METALS INC.

Date: 12/4/2008

Author: JS

Office: Val d'Or

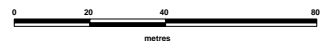
Drawing: 2008-04

Scale: 1:2000

Projection: UTM Zone 17 (NAD 83)

RANEY PROPERTY

DDH Plan

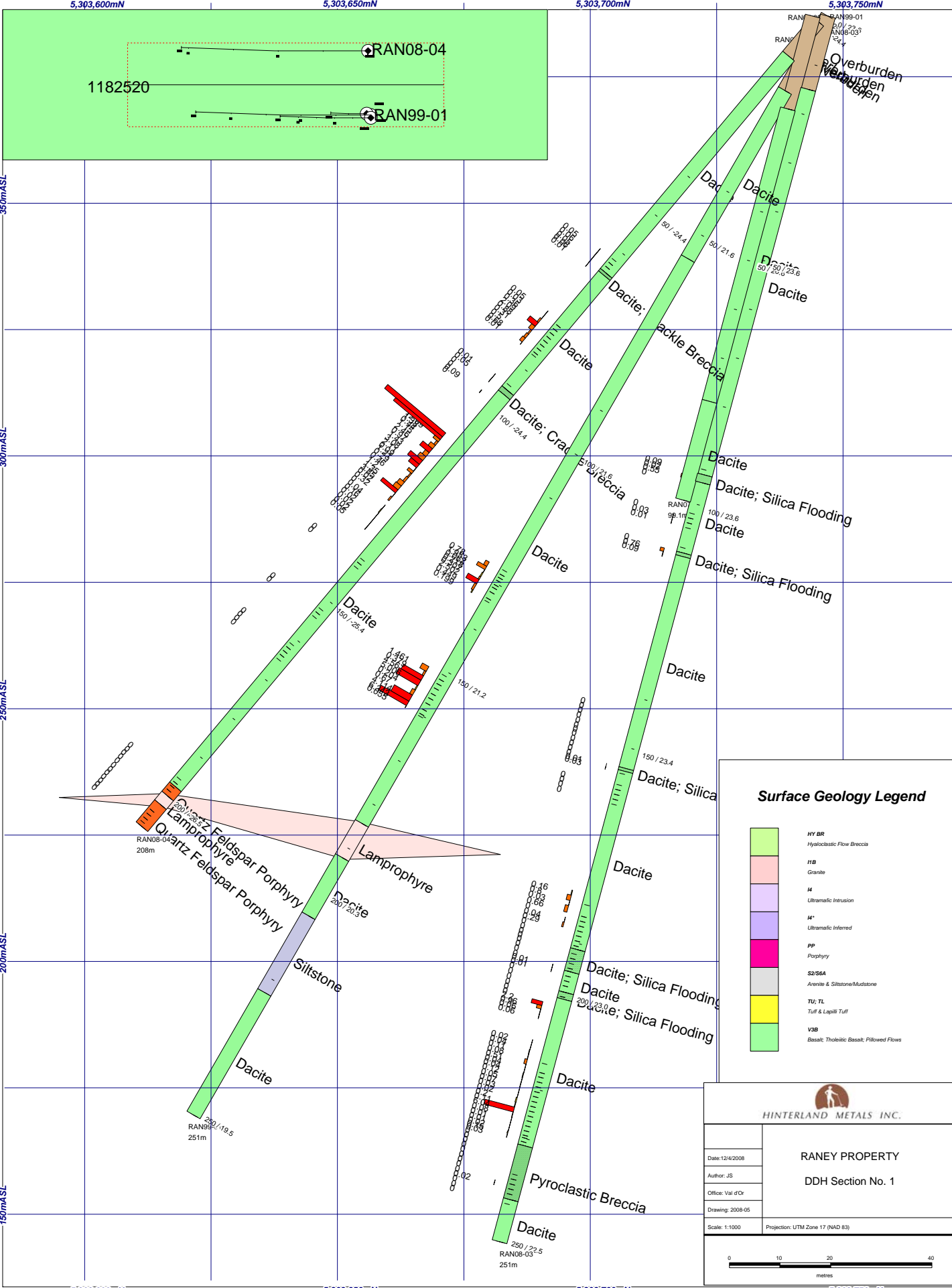
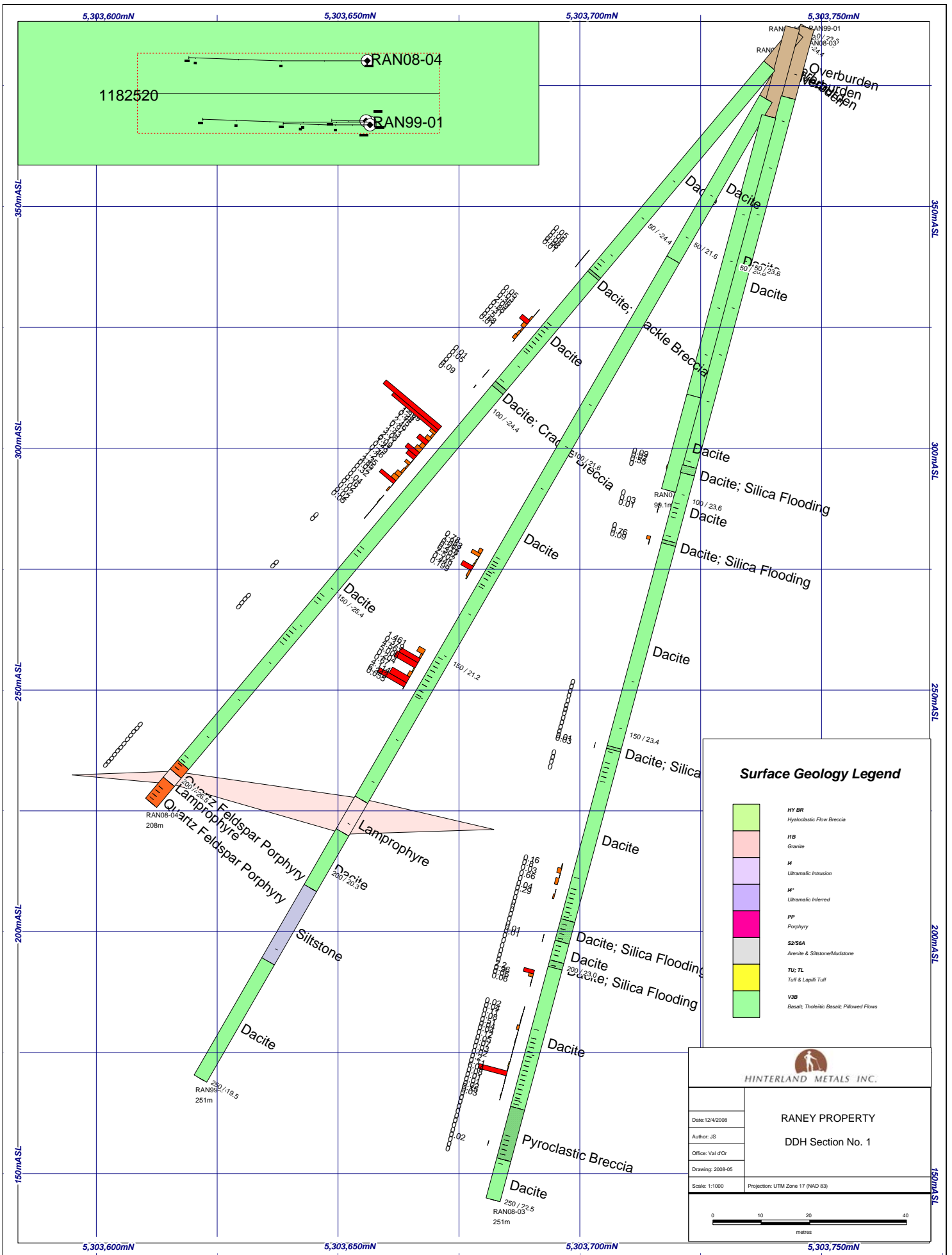


365,500 mE

365,600 mE

365,700 mE

365,800 mE



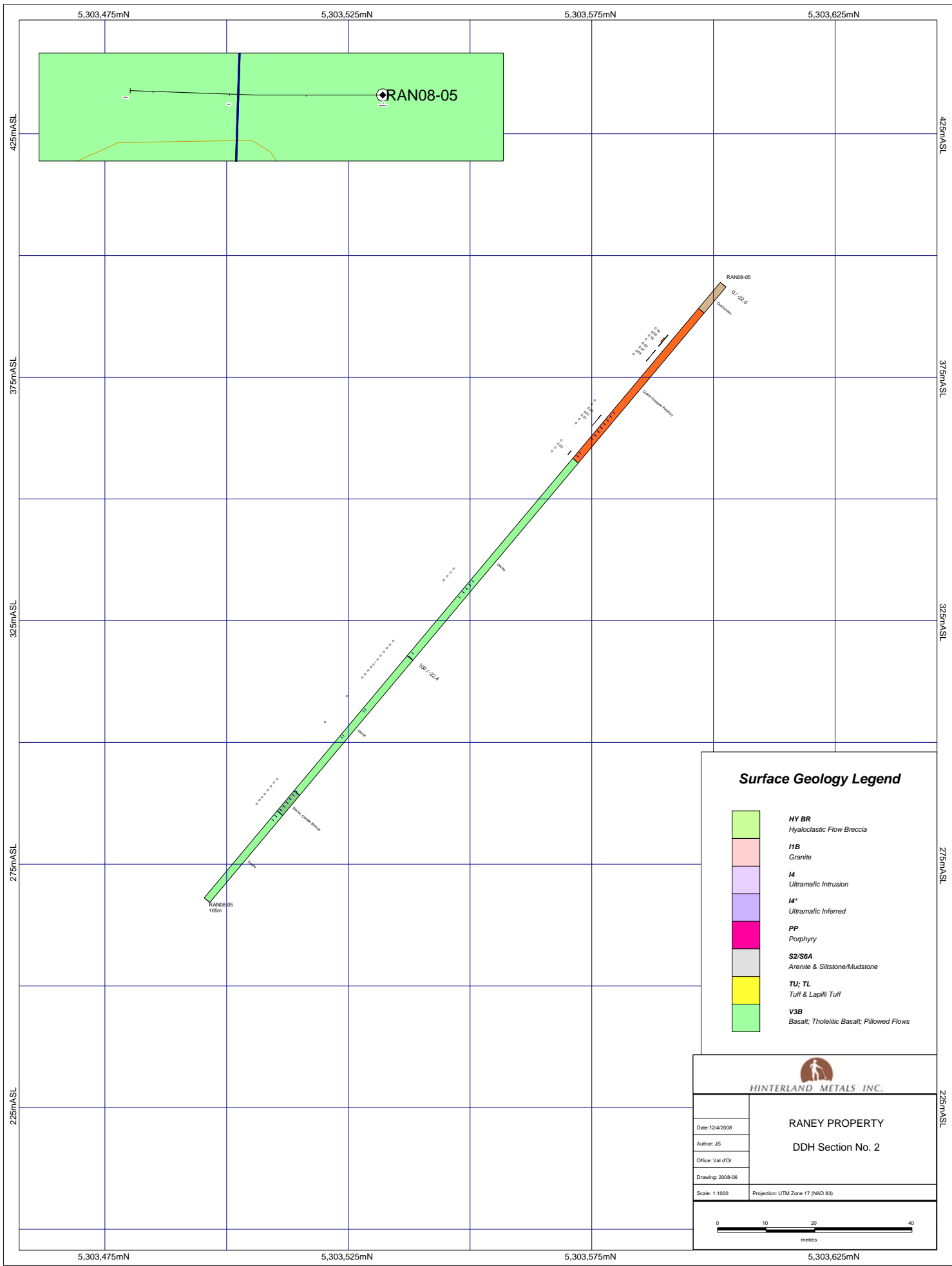
### Surface Geology Legend

	HY BR Hyaloclastic Flow Breccia
	HB Granite
	I4 Ultramafic Intrusion
	I4* Ultramafic Inferred
	PP Porphyry
	S2/S6A Arenite & Siltstone/Mudstone
	TU; TL Tuff & Lapilli Tuff
	V2B Basalt; Tholeiitic Basalt; Pillowed Flows

HINTERLAND METALS INC.

Date: 12/4/2008	<b>RANEY PROPERTY</b> <b>DDH Section No. 1</b>
Author: JS	
Office: Val d'Or	
Drawing: 2008-05	
Scale: 1:1000	
Projection: UTM Zone 17 (NAD 83)	

0 10 20 40  
metres



**Surface Geology Legend**

- HY BR**  
Hyaloclastic Flow Breccia
- I1B**  
Granite
- I4**  
Ultramafic Intrusion
- I4\***  
Ultramafic Inferred
- PP**  
Porphyry
- S2/S6A**  
Arenite & Siltstone/Mudstone
- TU; TL**  
Tuff & Lapilli Tuff
- V3B**  
Basalt; Tholeiitic Basalt; Pillowed Flows

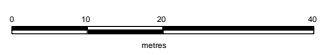


HINTERLAND METALS INC.

**RANEY PROPERTY**  
**DDH Section No. 2**

Date: 12/4/2008  
 Author: JS  
 Office: Val d'Or  
 Drawing: 2008-06  
 Scale: 1:1000

Projection: UTM Zone 17 (NAD 83)



## 15 Recommendations

Based on the positive assay results obtained in the recently completed drill program, it is the authors' opinion that the Raney project is of sufficient merit for Hinterland to continue exploration work. A two phase exploration program is proposed consisting of a first phase of line-cutting, geophysical surveys and preliminary diamond drilling to be followed by a second phase of advanced drilling. Also it is recommended that an additional 13 claims be staked to the east of the present property in order to cover possible strike extensions of the gold-bearing structures identified to date.

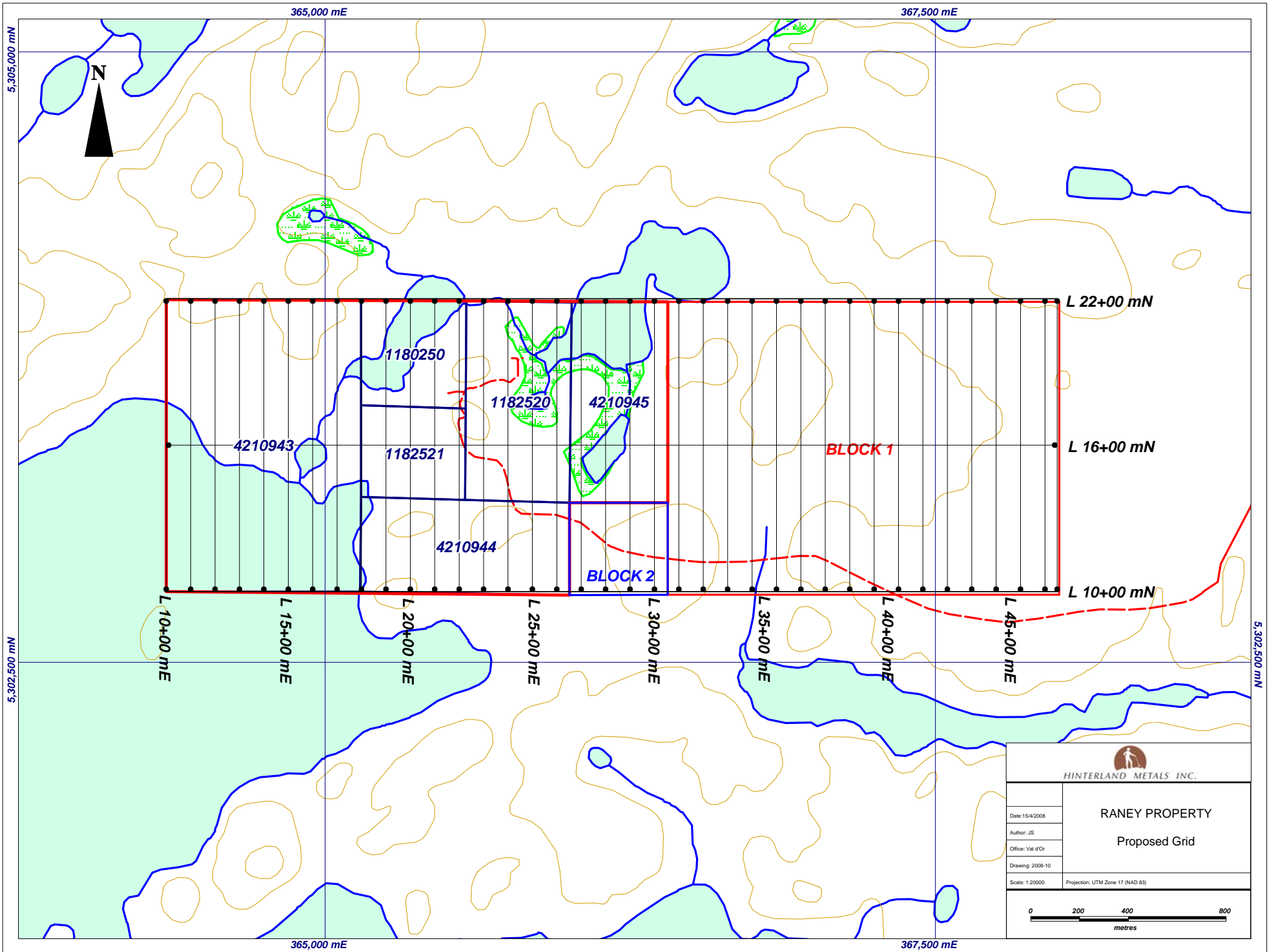
Specifically it is recommend that a grid be cut over the entire property (including the area to be staked) with base and tie lines oriented at 090° azimuth and lines spaced at 100m oriented at 180° (Figure 9). Magnetic and induced polarization surveys should then be completed over the entire grid at a 100m line spacing in order to identify extensions of the known gold-bearing structures and to identify potential parallel structures. It is recommended that at least 2000m of preliminary drilling be undertaken mainly to test the easterly extent of the No. 1 gold-bearing structure, but also to test any possible geophysical anomalies generated by the surface surveys. If possible a geologist and prospector should spend time examining any such targets prior to drilling. Contingent on positive results in the first phase of exploration, a second phase consisting of 400m of drilling is also recommended.


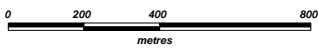
The estimated cost for the first phase is \$468,908 and for the second phase is \$660,000 for a total estimated cost of \$1,128,903 for the two phases. These estimates include 10% for contingencies due to weather, shortage of contractors, equipment breakdowns etc. The recommended program is outlined in the following table.

**Table 4 - Cost Estimate**

<b>Phase I - Surface Work &amp; Initial Drilling</b>				
Line-cutting	52	km @	\$650	\$33,800
MAG	44	km @	\$150	\$6,600
IP	44	km @	\$1,500	\$66,000
Geologist	25	days @	\$500	\$12,500
Prospector	15	days @	\$375	\$5,625
Samples	50	samples @	\$35	\$1,750
Total Surface Work				\$126,275
Drilling	2000	m @	\$150	\$300,000
Subtotal				\$426,275
Contingency ~10%				\$42,628
Phase I Total				\$468,903
<b>Phase II - Drilling</b>				
Drilling	4000	m @	\$150	\$600,000
Subtotal				\$600,000
Contingency ~10%				\$60,000
Phase II Total				\$660,000
<b>Phase I &amp; II Total</b>				<b>\$1,128,903</b>





 <b>HINTERLAND METALS INC.</b>	
<b>RANEY PROPERTY</b> Proposed Grid	
Date: 15/4/2008	
Author: JS	
Office: Val d'Or	
Drawing: 2008-10	
Scale: 1:20000	Projection: UTM Zone 17 (NAD 83)
	

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Salo, J.G., 1993

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### Appendix A - List of Mineral Titles

Six staked mineral claims located in Raney Township, Porcupine Mining Division, Ontario, NTS  
Sheet 41 O15 and recorded to Joe-Anne G. Salo (Client # 191078):

Township	Claim Number	Recording Date	Claim Due Date	Status	Percent Option	Work Required	Total Applied	Total Reserve	Claim Bank	Total Area (Ha)
RANEY	1180250	1991-May-03	2010-May-03	A	100%	\$340	\$6,860	\$0	\$0	18.71
RANEY	1182520	1993-Apr-13	2010-Apr-13	A	100%	\$400	\$12,400	\$2,749	\$0	35.00
RANEY	1182521	1993-Apr-13	2010-Apr-13	A	100%	\$400	\$6,000	\$0	\$0	15.97
RANEY	4210943	2006-Oct-19	2008-Oct-19	A	100%	\$2,400	\$0	\$0	\$0	95.10
RANEY	4210944	2006-Oct-19	2008-Oct-19	A	100%	\$800	\$0	\$0	\$0	32.67
RANEY	4210945	2006-Oct-19	2008-Oct-19	A	100%	\$800	\$0	\$0	\$0	32.60

## Appendix B - DDH Summary Table

ID	UTM Zone	mE	mN	Elev.	Dip°	Azi°	Depth (m)	Comment
RAN07-02	17T	365810	5303744	387	-75	180	99.1	Hole Lost
RAN08-03	17T	365813	5303747	387	-75	180	251.0	
RAN08-04	17T	365765	5303745	386	-50	180	200.0	
RAN08-05	17T	365502	5303602	394	-50	180	208.0	
					<b>Total Drilling</b>		<b>758.1</b>	

## **Appendix C - DDH Core Logs**

**Breakaway Exploration Management Inc.****DDH : RAN-99-01**

Claims title : 41O15SW  
 Township : Raney  
 Range :  
 Lot :

Section :  
 Level :  
 Work place : Raney Property

Drilled by : Brereton/Salo  
 Geologist : W. Brereton

From : 9/9/1999  
 Description date : 12/11/2007

To : 9/22/1999

## Collar

Azimuth : 180.0°  
 Plunge : -60.0°  
 Length : 251.0m

Longitude (East)  
 Latitude (North)  
 Elevation

NAD 83 Zone 17

365811.0
5303747.0
387.0

## Down hole survey

Type	Depth	Azimuth	Plunge
Acide	0.0m	180.0°	-60.0°
Acide	100.0m		-58.0°
Acide	200.0m		-56.0°
Acide	251.0m		-55.0°

## Comments

Log Transcribed from W. Brereton 1999 Drill Report. Hole was drilled to test depth extension of high grade quartz vein zone in surface trenches. Mineralized intervals at 23 Helmer Ave, South Porcupine, Ont. Balance of core stored on site.

Core size : BQ Core

Cemented : No

Storage : Yes





**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
0.0	17.0	OB <b>Overburden</b> Sandy Overburden						
17.0	55.4	TU; S6A; GF; LA <b>Tuff; Siltstone; Fine-grained; Laminated</b> Delicately laminated, very fine grained, soft, greyish waterlain tuffaceous material with black argillite laminae, the latter generally less than 1cm down to 1mm wispy partings. Rocks are generally well foliated and locally crenulated. Small blackish quartz eyes (27.5m - 29.0m) show distinct flattening/elongation and pressure shadows. Minor pyrite locally as very fine grained disseminations along foliation planes and some coarser material associated with the argillite bands at 27.3m. Bleached, sericitized, silicified zone 41m to 42m.						
18.5	18.5	LA <b>Laminated40°</b> Argillite Laminations 40 degrees to core axis (ca)						
23.0	23.0	LA <b>Laminated50°</b> Argillite laminations 50 to ca						
27.0	27.0	LA <b>Laminated50°</b> Argillite laminations 50 to ca						
40.0	40.0	LA <b>Laminated50°</b> Argillite laminations 50 to ca						
40.4	47.0	TX <b>Tuff-Crystal</b> Coarser feldspar-quartz crystal tuff unit. Distinct creamy-grey cherty laminae to several cm's with argillite and sericitic partings at lower contact.						
55.0	55.0	LA <b>Laminated50°</b> Argillite laminations 50 to ca						
55.4	184.4	TD; TX; TL <b>Tuff-Ash; Tuff-Crystal; Tuff-Lapilli</b> Intermediate pyroclastics. Mainly ash and crystal tuffs with occasional coarser lapilli tuff units. Greyish, relatively soft, well foliated, abundant fine blackish quartz eyes in some sections. Rocks are variably sericitic and silicified throughout. 10cm quartz vein at 58m. Generally less than 1% disseminated pyrite in rocks with some sections showing better mineralization. Coarser pyrrhotite blebs around 93.5m. 10cm bleached, silicified, sericitized zone with argillite partings at 89.2m. Unit becomes gradually but noticeably more sericitized and silicified from ~95m to 101m. Quartz-carbonate flooded zone +/- chlorite 104.8m to 105.2m. Around 112m, quite homogenous, well foliated crystal tuff unit, contains less than 1cm quartz veinlets, generally parallel to foliation. 25cm siliceous zone at 120.6m. Some notably coarser, lapilli tuff sections (ex. 170m to 174m). Some sections are particularly well bedded (ex. 174m to 176m).						
55.4	184.4	Si+; < P >; s; Sr+; ( L ); m <b>Silica alt; pervasive; strong; Sericite alt; local; medium</b> It is particularly intense 127m to 128m; 129.4m to 130.35m; 131m to 134m; 150.0m to 155.25m.						
59.3	63.0	TL <b>Tuff-Lapilli</b> Prominent lapilli tuff unit with stretched, creamy-white, mort siliceous fragments in an ash/crystal matrix. Unit appears to fine down hole (i.e. tops to south)						
61.0	61.0	SA <b>Bedded50°</b>						
78.0	78.5	TD; FOm						



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS						
			From	To	Nmb	LENGTH	Au ppb	Ag ppb	
88.0	88.0	<b>Tuff-Ash; Foliated (moderate)</b> Rocks are sericitic, well foliated and variably quartz-carbonate flooded. SA <b>Bedded45°</b>							
94.0	94.0	SA <b>Bedded50°</b>							
110.0	110.0	SA <b>Bedded45°</b>							
115.5	116.5	Py03 <b>Pyrite03%</b> 2-3% Pyrite associated with lighter coloured more siliceous fragments.							
127.0	134.0	TD; TX <b>Tuff-Ash; Tuff-Crystal</b> Irregular quartz +/- carbonate flooding, patches and veinlets in variably sericitized, carbonatized and chloritized pyroclastics, some dense, fine cherty material 129m to 130m. Generally 1-3% to locally 5% pyrite in zone; minor pink carbonate 132m 133m.	127.0	128.0	27951	1.0	780		
			128.0	128.7	27952	0.7	1953		
			128.7	129.4	27953	0.7	62		
			129.4	130.4	27954	1.0	218		
			130.4	131.0	27955	0.7	307		
			131.0	132.0	27956	1.0	2502		
			132.0	133.4	27957	1.4	449		
			133.4	134.0	27958	0.6	199		
142.0	142.0	SA <b>Bedded45°</b>							
148.0	159.8	TD; TX <b>Tuff-Ash; Tuff-Crystal</b> Irregular quartz +/- carbonate flooding, patches and veinlets in variable sericitized, carbonatized, chloritized pyroclastics. Not these are not veins per se but are post-foliation flooding/replacement deposits,	150.9	152.0	27959	1.1	1461		
			152.0	153.0	27960	1.0	379		
			153.0	154.0	27961	1.0	4560		
			154.0	155.3	27962	1.3	5006		
			155.3	156.3	27966	1.0	204		
			156.3	157.4	27967	1.2	670		
			157.4	158.8	27963	1.4	4114		
			158.8	159.8	27964	1.0	6343		
			159.8	160.3	27965	0.5	55		
163.0	163.0	SA <b>Bedded50°</b>							
177.0	177.0	SA <b>Bedded55°</b>							
184.4	192.2	I30; DN; MAS <b>Lamprophyre; Dyke; Massive</b> Massive, non-foliated rock with abundant small whiteish feldspar +/- quartz blebs in fine grained black phlogopite-bearing matrix. Rock is distinctly magnetic and contains up to 5% very fine pyrrhotite. Upper contact is badly broken up (faulted?). Both upper and lower contacts are chilled and unit contains scattered thin talc-carbonate veinlets and fillings.							
192.2	251.0	TU; S6A; FAm <b>Tuff; Siltstone; Fractured (moderate)</b> Interbedded sequence of well foliated/bedded ash, crystal and lapilli tuffs with minor argillaceous sediments. Distinct bluish alteration next to the lamprophyre dyke at upper contact. Tuffs are extremely siliceous/cherty and delicately laminated in many cases (ex. around 203m to 205m and towards end of hole). No significant sulphides.							

**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
203.0	203.0	FO <b>Foliated55°</b>						
205.5	223.0	S6A; LA <b>Siltstone; Laminated</b> Variable argillaceous beds, laminae and wispy partings. Minor pyrite.						
232.5	239.7	TX; TL <b>Tuff-Crystal; Tuff-Lapilli</b> Prominent intermediate crystal lapilli tuff unit, appears to fine up hole in contrast to unit from 59.3m to 63m.						
243.0	243.0	FO <b>Foliated55°</b>						
251.0	<b>DDH end</b> Number of samples : 17 Number of samples QA/QC : 0 Total lenght sampled : 16.4							



### Breakaway Exploration Management Inc.

**DDH : RAN-07-02**

Claims title : 41O15SW  
Township : Raney  
Range :  
Lot :

Section :  
Level :  
Work place : Shinning Tree

Drilled by : Salo Drilling  
Geologist : J. Simper

From : 12/15/2007  
Description date : 12/18/2007

To : 12/18/2007

**Collar**

Azimuth : 180.0°  
Plunge : -75.0°  
Length : 99.1m

Longitude (East)  
Latitude (North)  
Elevation

NAD 83 Zone 17

365810.0  
5303744.0  
387.0

**Down hole survey**

Type	Depth	Azimuth	Plunge

**Comments**

Began December 15 PM shift. Core is stored at L. Salo's home in Shinning Tree, Ontario.  
Hole lost at 99.1m

Core size : NQ Core

Cemented : No

Storage : Yes



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS						
			From	To	Nmb	LENGTH			
0.0	19.0	OB <b>Overburden</b> Sandy/clay soil.							
19.0	78.9	TU; GF; LA; FOm <b>Tuff; Fine-grained; Laminated; Foliated (moderate)</b> Very fine grained, medium to dark grey, relatively soft, finely laminated, tuffaceous material. Seems to be a mixture of ash and crystalline tuff. The laminations dominantly consist of alternating very fine tuff material and black argillite material. Rocks are generally well foliated and locally quite crenulated. Minor very fine grained disseminated pyrite occurs along fracture planes predominantly (<1%). There are a very occasional intervals with minor cubic pyrite (<1%), usually are associated with the more crenulated intervals. Some intervals of moderate silicification along fracture planes. Quite convoluted and appear to be more flow like. No veining.							
19.0	99.1	Gp+; ( L ); w <b>Graphitic alt; local; weak</b> Localized zones of graphitic alteration throughout. Some intervals have been effect more greatly than others.							
20.9	20.9	LA <b>Laminated55°</b> To core axis (ca)							
43.4	43.4	LA <b>Laminated55°</b>							
48.1	56.0	TX; MAS <b>Tuff-Crystal; Massive</b> Medium grey, fine grained (coarser than overall interval), massive crystalline tuff. Not particularly laminated, although towards the bottom of the interval very fine laminations do begin to appear. Somewhat more quartz-carbonate flooding (??) in this interval - chalky white, convoluted, moderately hard. No visible mineralization.							
59.1	59.1	LA <b>Laminated45°</b>							
71.2	75.8	TX; LA <b>Tuff-Crystal; Laminated</b> Medium grey, fine grained, well laminated crystal tuff. Small black quartz eyes. Interval is somewhat variable between massive and foliated. No visible mineralization. Minor planar quartz-carbonate veining (<3%).							
71.2	71.2	LA <b>Laminated50°</b>							
78.9	99.1	TX; TD; FO <b>Tuff-Crystal; Tuff-Ash; Foliated</b> Medium grey, medium grained, foliated, crystal tuff with quart eyes, somewhat welded appearance. Alternating layers of medium grained crystal tuff with fine grained ash tuff. Not are quite well laminated. No visible mineralization, except for one small (2mm) pyrite stringer. Minor planar quartz-carbonate veining along lamination planes, relatively frequent.							
82.4	82.4	LA <b>Laminated55°</b>							
99.1	<b>DDH end</b> Number of samples : 0 Number of samples QA/QC : 0 Total lenght sampled : 0.0								



### Breakaway Exploration Management Inc.

**DDH : RAN-08-03**

Claims title : 41O15SW  
Township : Raney  
Range :  
Lot :

Section :  
Level :  
Work place : Shinning Tree

Drilled by : Salo Drilling  
Geologist : J. Simper

From : 3/12/2008  
Description date : 3/12/2008

To : 3/12/2008

Collar

Azimuth : 180.0°  
Plunge : -75.0°  
Length : 251.0m

Longitude (East)  
Latitude (North)  
Elevation

NAD 83 Zone 17

365813.0  
5303747.0  
387.0

Down hole survey

Type	Depth	Azimuth	Plunge

Comments

Core is stored at Larry Salo's home in Shinning Tree, Ontario  
Index Tray:  
107.7m to 107.8m Crystal Tuff  
218.2m to 218.3m Quartz Veins & Flooding in a Crystal Tuff  
234.6m to 234.7m Pyroclastic Breccia

Core size : NQ Core

Cemented : No

Storage : Yes



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS						
			From	To	Nmb	LENGTH	Au ppb	Ag ppb	
0.0	15.0	OB <b>Overburden</b> Sand, gravel, boulders							
	0.0	137.0	Sr+; < P >; m; Gp+; ( L ); w <b>Sericite alt; pervasive; medium; Graphitic alt; local; weak</b> Variable degrees of sericite alteration throughout; local weak graphitic alteration occurs along fracture planes mostly.	0.0	0.0	117540 (Bln)	0.0	0	0
				0.0	0.0	117536 (Dbl)	0.0	140	0
				0.0	0.0	117529 (Std)	0.0	2810	4900
				0.0	0.0	117516 (Bln)	0.0	0	0
				0.0	0.0	117569 (Bln)	0.0	0	0
				0.0	0.0	117565 (Dbl)	0.0	0	0
				0.0	0.0	117558 (Std)	0.0	330	1100
				0.0	0.0	117512 (Dbl)	0.0	90	0
				0.0	0.0	117505 (Std)	0.0	330	1000
				0.0	0.0	117593 (Bln)	0.0	0	0
				0.0	0.0	117589 (Dbl)	0.0	20	0
				0.0	0.0	117582 (Std)	0.0	2910	4700
15.0	137.0	TU; LA <b>Tuff; Laminated</b> Very fine grained, medium to dark grey, relatively soft, finely laminated, tuffaceous material. Seems to be a mixture of ash and crystalline tuff, with beds of lapilli tuff occurring infrequently. The laminations dominantly consist of alternating very fine tuff material and black argillite material. Rocks are generally well foliated. Locally rock is very convoluted. Minor very fine grained disseminated pyrite occurs along fracture planes predominantly (<1%). Some intervals of moderate sericite alteration, become far more sericite altered at 137m.							
	15.0	17.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	17.0	20.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	20.0	23.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	23.0	26.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	24.0	24.0	LA <b>Laminated30°</b>						
	26.0	29.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	29.0	32.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	32.0	35.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	35.0	38.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	37.6	37.6	LA						



**Breakaway Exploration Management inc.**

DESCRIPTION		ASSAYS				
		From	To	Nmb	LENGTH	Au ppb
38.0	41.0	<b>Laminated30°</b> <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
40.3	43.5	TU; QB <b>Tuff; Irregular sequence with constant thickness</b> Dark grey; fine grained tuff; very convoluted with abundant quartz carbonate - flooding??; no obvious bedding orientation.				
41.0	44.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
44.0	47.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
47.0	50.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
50.0	53.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
52.0	52.0	LA <b>Laminated32°</b>				
53.0	56.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
56.0	59.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
59.0	62.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
62.0	65.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
65.0	68.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
68.0	71.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
71.0	74.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
74.0	77.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
77.0	80.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				
80.0	83.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>				





**Breakaway Exploration Management inc.**

DESCRIPTION		ASSAYS					
		From	To	Nmb	LENGTH	Au ppb	Ag ppb
83.0	86.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
86.0	89.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
89.0	92.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
92.0	95.0	93.0	94.0	117551	1.0	90	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
94.0	95.6	94.0	94.8	117552	0.8	20	0
		94.8	95.6	117553	0.8	550	0
		TD; Si+ Fl <b>Tuff-Ash; Silica Flooding</b> Quartz flooded tuff with minor fine grained sulphides.					
95.0	98.0	95.6	96.6	117554	1.0	0	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
98.0	101.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
101.0	104.0	102.0	103.0	117555	1.0	0	0
		103.0	104.0	117556	1.0	30	0
		104.0	105.0	117557	1.0	10	0
104.0	107.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
107.0	110.0	109.0	110.0	117559	1.0	0	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
110.0	110.7	110.0	110.7	117560	0.7	760	0
		TD; Si+ Fl <b>Tuff-Ash; Silica Flooding</b> Quartz flooded tuff, with minor fine grained sulphides, mostly pyrrhotite.					
110.0	113.0	110.7	111.7	117561	1.0	90	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
113.0	116.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
116.0	119.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
119.0	122.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
122.0	125.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					
125.0	128.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>					



**Breakaway Exploration Management inc.**

DESCRIPTION		ASSAYS					
		From	To	Nmb	LENGTH	Au ppb	Ag ppb
128.0	131.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
131.0	134.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
134.0	137.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
137.0	251.0	TD; TX; LA <b>Tuff-Ash; Tuff-Crystal; Laminated</b> Dark grey; dominantly crystal tuff with bands of fine grained ash tuff; well laminated, with lamination trending towards perpendicular to ca; sericite alteration throughout in varying degrees, with silica flooding occurring as well in zones, intensity varies; quartz carbonate veining occurs occasionally; minor fine disseminated sulphides are variable. Narrow zone of ankerite alteration from 171.4 to 171.8m.					
137.0	251.0	Sr+; < P >; s <b>Sericite alt; pervasive; strong</b> Strong pervasive sericite throughout, is much more predominate here from above interval. 171.4 to 171.8 local, strong orange ankerite alteration occurs throughout.					
137.0	137.0	LA <b>Laminated70°</b>					
137.0	140.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
140.0	143.0	142.5	143.5	117562	1.0	0	0
143.0	146.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
143.5	150.2	TX <b>Tuff-Crystal</b> Dark grey/yellow, crystal tuff; high degree of sericite alteration; clasts up to 2mm; exhibits a very messy, flow like texture; minor quartz flooding throughout; no visible sulphides.					
146.0	149.0	146.5	147.5	117567	1.0	0	0
		147.5	148.5	117568	1.0	0	0
		148.5	149.1	117570	0.6	0	0
149.0	152.0	149.1	150.2	117571	1.1	0	0
		150.2	151.2	117572	1.0	0	0
		151.2	152.2	117573	1.0	0	0
152.0	155.0	152.2	153.2	117574	1.0	0	0
		153.2	154.1	117575	0.9	0	0
154.1	154.7	TD; Si+ Fl <b>Tuff-Ash; Silica Flooding</b> Dark grey, yellow; ash tuff with moderate quartz flooding throughout; high degree of sericite alteration.					
		154.1	154.7	117576	0.6	10	0
		154.7	155.3	117577	0.6	30	0
155.0	158.0	157.6	158.6	117578	1.0	0	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
158.0	161.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
158.6	159.6	TX; CS	158.6	159.6	117579	1.0	0	0
		<b>Tuff-Crystal; Sheared</b>	159.6	160.6	117580	1.0	0	0
		Shear zone?; crystal tuff; high degree of sericite alteration; flow texture along shear planes.	160.6	161.6	117581	1.0	0	0
161.0	164.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
164.0	167.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
167.0	170.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
170.0	173.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
173.0	176.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
176.0	179.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
179.0	182.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	180.1	181.1	117583	1.0	160	0
180.4	180.4	LA <b>Laminated71°</b>						
181.1	182.2	VN;60%;QzCb;;;Sf08; <b>Vein 60% Quartz Carbonate Sulphides08</b> Irregular quartz carbonate veins system; fine disseminated sulphides throughout, up to 8%; veins cross-cuts the strata, which is dominantly ash tuff; strong local sericite alteration throughout.	181.1	182.2	117584	1.1	800	0
182.0	185.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	182.2	183.2	117585	1.0	30	0
			183.2	184.6	117586	1.4	660	0
			184.6	185.6	117587	1.0	0	0
185.0	188.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
185.6	187.6	VN;60%;QzCb;;;Sf08; <b>Vein 60% Quartz Carbonate Sulphides08</b> Irregular quartz carbonate vein system; pervasive strong sericite alteration throughout, local dark green/black chlorite alteration occurs predominantly along margins of quartz vein; fine disseminated sulphides throughout.	185.6	186.6	117588	1.0	40	0
			186.6	187.6	117590	1.0	290	0
			187.6	188.6	117591	1.0	0	0
188.0	191.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	188.6	189.6	117592	1.0	0	0
			189.6	190.6	117594	1.0	0	0
			190.6	191.2	117595	0.6	0	0
191.0	194.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS						
			From	To	Nmb	LENGTH	Au ppb	Ag ppb	
191.1	191.1	LA <b>Laminated50°</b>							
191.2	195.8	TX; Si+ Fl <b>Tuff-Crystal; Silica Flooding</b> Dark grey; fine to medium grained; crystal tuff; pervasive strong silica alteration throughout, quartz flooded; minor dark green/black chlorite alteration occurs throughout, especially along margins of quartz veins; some irregular quartz carbonate veins throughout; fine disseminated sulphides throughout.	191.2	192.2	117596	1.0	0	0	
			192.2	193.2	117597	1.0	0	0	
			193.2	194.2	117598	1.0	0	0	
194.0	197.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	194.2	195.2	117599	1.0	0	0	
			195.2	195.8	117600	0.6	10	0	
			195.8	196.8	117501	1.0	10	0	
			196.8	197.8	117502	1.0	0	0	
197.0	200.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	197.8	198.8	117503	1.0	0	0	
			198.8	200.0	117504	1.2	0	0	
200.0	201.4	TX; Si+ Fl <b>Tuff-Crystal; Silica Flooding</b> Dark grey; fine to medium grained; crystal tuff; pervasive strong silica alteration throughout, quartz flooded; minor dark green/black chlorite alteration occurs throughout, especially along margins of quartz veins; some irregular quartz carbonate veins throughout; fine disseminated sulphides throughout.	200.0	201.0	117506	1.0	0	0	
200.0	203.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	201.0	202.0	117507	1.0	0	0	
			202.0	202.9	117508	0.9	0	0	
202.2	202.2	LA <b>Laminated25°</b>							
202.9	209.4	VN;50%;QzCb;;;Sf07; <b>Vein 50% Quartz Carbonate Sulphides07</b> Irregular quartz carbonate vein system; pervasive strong sericite alteration throughout, local dark green/black chlorite alteration occurs predominantly along margins of quartz vein; fine disseminated sulphides throughout.	202.9	203.7	117509	0.8	2200	500	
203.0	206.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	203.7	204.4	117510	0.7	960	0	
			204.4	205.4	117511	1.0	60	0	
			205.4	206.4	117513	1.0	60	0	
206.0	209.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>							
209.0	212.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	210.7	211.7	117514	1.0	20	0	
			211.7	212.7	117515	1.0	40	0	
212.0	215.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	212.7	213.7	117517	1.0	110	0	
			213.7	214.7	117518	1.0	80	0	
			214.7	215.7	117519	1.0	510	0	
215.0	218.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	215.7	216.6	117520	0.9	40	0	
			216.6	217.5	117521	0.9	40	0	
217.5	220.5	VN;40%;QzCb;;;Sf08; <b>Vein 40% Quartz Carbonate Sulphides08</b> Quartz carbonate vein, // to ca; vein becomes less prominent towards bottom of interval; is hosted in a zone of highly silica flooded crystal tuff; chlorite alteration along margins of quartz vein; fine disseminated sulphides, up to 8%, throughout, mostly pyrrhotite and pyrite.	217.5	218.5	117522	1.0	120	0	



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
218.0	221.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	218.5	219.5	117523	1.0	50	0
			219.5	220.5	117524	1.0	70	0
			220.5	221.5	117525	1.0	30	0
221.0	224.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	221.5	222.5	117526	1.0	20	0
			222.5	223.5	117527	1.0	200	500
222.7	222.7	LA <b>Laminated28°</b>	223.5	224.5	117528	1.0	110	0
224.0	227.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	224.5	225.5	117530	1.0	6040	700
			225.5	226.5	117531	1.0	80	0
			226.5	227.5	117532	1.0	10	0
227.0	230.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	227.5	228.5	117533	1.0	10	0
			228.5	229.4	117534	0.9	20	0
229.4	229.9	VN;50%;QzCb;;;Sf05; <b>Vein 50% Quartz Carbonate Sulphides05</b>	229.4	229.9	117535	0.5	150	0
		Quartz carbonate vein; is hosted in a zone of highly silica flooded crystal tuff; chlorite alteration along margins of quartz vein; fine disseminated sulphides, up to 5%, throughout, mostly pyrrhotite and pyrite.	229.9	230.7	117537	0.8	30	0
230.0	233.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	230.7	231.4	117538	0.7	0	0
231.4	242.4	BP <b>Pyroclastic Breccia</b>	231.4	232.4	117539	1.0	0	0
		Dark grey; felsic pyroclastic breccia; angular fragments of crystal & ash tuff varying in size from 0.5mm to ~4cm, cemented in quartz and tuff (ash?) matrix; minor quartz flooding in places; no significant visible mineralization.	232.4	233.4	117541	1.0	0	0
233.0	236.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	233.4	234.4	117542	1.0	0	0
			234.4	235.4	117543	1.0	0	0
			235.4	236.4	117544	1.0	0	0
236.0	239.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	236.4	237.4	117545	1.0	0	0
			237.4	238.4	117546	1.0	0	0
			238.4	239.4	117547	1.0	0	0
239.0	242.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	239.4	240.4	117548	1.0	20	0
			240.4	241.4	117549	1.0	0	0
			241.4	242.4	117550	1.0	0	0
242.0	245.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>	242.4	243.4	119808	1.0	0	0
245.0	248.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
248.0	251.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
251.0	DDH end Number of samples : 89 Number of samples QA/QC : 12 Total length sampled : 85.1							

**Breakaway Exploration Management Inc.****DDH : RAN-08-04**

Claims title : 41O15SW  
 Township : Raney  
 Range :  
 Lot :

Section :  
 Level :  
 Work place : Shinning Tree

Drilled by : Salo Drilling  
 Geologist : J. Simper

From : 3/14/2008  
 Description date : 3/14/2008

To : 3/14/2008

## Collar

Azimuth : 180.0°  
 Plunge : -50.0°  
 Length : 208.0m

Longitude (East)  
 Latitude (North)  
 Elevation

NAD 83 Zone 17

365765.0
5303745.0
386.0

## Down hole survey

Type	Depth	Azimuth	Plunge
Reflex EZ-Shot	208.0m	188.6°	-50.6°

## Comments

Core is stored at Larry Salo's house in Shinning Tree, Ontario  
 Index Tray:  
 13.9m to 14.0m Ash Tuff  
 32.7m to 32.8m Lapilli Tuff  
 201.0m to 201.1m Diabase Dyke  
 203.1m to 203.2m Quartz Feldspar Porphyry

Core size : NQ Core

Cemented : No

Storage : Yes



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
0.0	9.0	OB <b>Overburden</b> Casing, sand, gravel.	0.0	0.0	8586 (Dbl)	0.0	0	0
			0.0	0.0	8579 (Std)	0.0	2960	5000
			0.0	0.0	8566 (Bln)	0.0	10	0
			0.0	0.0	8562 (Dbl)	0.0	20	0
			0.0	0.0	8555 (Std)	0.0	330	1100
			0.0	0.0	119893 (Bln)	0.0	0	0
			0.0	0.0	119889 (Dbl)	0.0	2530	0
			0.0	0.0	119882 (Std)	0.0	2920	4500
			0.0	0.0	119869 (Bln)	0.0	0	0
			0.0	0.0	119865 (Dbl)	0.0	90	0
9.0	197.7	TD; TX; LA; FO <b>Tuff-Ash; Tuff-Crystal; Laminated; Foliated</b> Medium to dark grey; dominantly ash tuff, trending to crystal tuff domianion from about 90m on; fine grained; thinly bedded; well laminated; narrow layers of black very fine grained argillite siltstone occurs with the ash regularly; some narrow beds of fine grained crystal tuff occur infrequently; moderate sericite alteration in places; minor graphitic alteration occurs with the argillite layers; minor fine disseminated sulphides; minor quartz carbonate veining.						
	9.0	12.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
	12.0	15.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
	13.8	13.8 LA <b>Laminated42°</b>						
	15.0	18.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
	18.0	37.0 TL <b>Tuff-Lapilli</b> Dark grey; lapilli tuff bed; fine to medium grained; clasts to 0.5cm; poorly sorted; minor sericite alteration; minor quartz veining.						
	18.0	21.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
	21.0	24.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
	22.4	22.4 LA <b>Laminated45°</b>						
	24.0	27.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
	27.0	30.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						
	30.0	33.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>						



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
33.0	36.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
36.0	39.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
39.0	42.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
42.0	45.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
45.0	48.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
46.7	46.7	LA <b>Laminated45°</b>						
48.0	51.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
51.0	54.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
51.2	51.2	LA <b>Laminated45°</b>						
51.5	51.8	VN;50%;QzCb;;;Sf03; <b>Vein 50% Quartz Carbonate Sulphides03</b> Quartz carbonate vein; minor chlorite alteration at margins of vein; minor fine grained sulphides.						
52.5	52.8	VN;40%;QzCb;;;Sf03; <b>Vein 40% Quartz Carbonate Sulphides03</b> Quartz carbonate vein; minor chlorite alteration at margins of vein; minor fine grained sulphides.						
54.0	57.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
57.0	60.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>						
60.0	63.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>	62.1	63.1	119861	1.0	50	0
62.4	63.3	VL;25%;QzCb;;;Sf03; <b>Veinlet 25% Quartz Carbonate Sulphides03</b> Coarse lapilli tuff, with small quartz veinlets developing at bottom of interval; minor chlorite alteration at margins of veinlets; minor fine disseminated sulphides.						
63.0	66.0	<b>RQD: %; Recovery: 100%; Joints:[Number:  Type:  Angle:]; Weathering: ; Strength:</b>	63.1 64.1	64.1 65.1	119862 119863	1.0 1.0	60 50	0 0
65.1	65.7	TX; CBx						





**Breakaway Exploration Management inc.**

DESCRIPTION		ASSAYS					
		From	To	Nmb	LENGTH	Au ppb	Ag ppb
65.1	65.7	<b>Tuff-Crystal; Crackle Breccia</b> Yellow/grey; crackle breccia in fine crystal tuff; pervasive strong sericite alteration throughout; minor fined grained pyrite occurs throughout; quartz carbonate veining towards bottom of interval.					
		65.1	65.7	119864	0.6	60	0
66.0	69.0	<b>Sericite alt; pervasive; strong</b> Strong pervasive sericite alteration throughout.					
		65.7	66.7	119866	1.0	10	0
66.0	69.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
69.0	72.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
70.2	70.2	LA <b>Laminated45°</b>					
72.0	75.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
75.0	78.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
78.0	81.0	78.2	79.2	119867	1.0	50	0
		79.2	80.2	119868	1.0	30	0
		80.2	81.2	119870	1.0	360	0
81.0	84.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
		81.2	82.2	119871	1.0	2090	0
		82.2	83.2	119872	1.0	880	0
84.0	87.0	Quartz carbonate vein system; minor chlorite alteration at margins; minor fine gained pyrite throughout up to 8%.					
		83.2	84.2	119873	1.0	310	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
84.2	85.1	VN;45%;QzCb;;;Py08;					
		84.2	85.2	119874	1.0	500	0
85.4	86.2	<b>Vein 45% Quartz Carbonate Pyrite08</b> Quartz carbonate vein system; minor chlorite alteration at margins; minor fine gained pyrite throughout up to 8%.					
		85.2	86.2	119875	1.0	680	0
85.4	86.2	VN;50%;QzCb;;;Py10;					
		86.2	86.8	119876	0.6	10	0
86.6	86.6	<b>Vein 50% Quartz Carbonate Pyrite10</b> Quartz carbonate vein system; minor chlorite alteration at margins; minor fine gained pyrite throughout up to 10%; hosted in an ash tuff/argillite.					
		LA <b>Laminated50°</b>					
87.0	90.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
90.0	93.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
93.0	96.0	94.4	95.4	119877	1.0	10	0



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
95.4	96.5	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b> TX; CBx <b>Tuff-Crystal; Crackle Breccia</b> Yellow/grey; crackle breccia in fine crystal tuff; pervasive strong sericite alteration throughout; minor fined grained pyrite occurs throughout.						
95.4	96.5	Sr+; < P >; s <b>Sericite alt; pervasive; strong</b> Strong pervasive sericite alteration throughout with crackle breccia texture.	95.4	96.5	119878	1.1	50	0
96.0	99.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	96.5	97.5	119879	1.0	0	0
			97.5	98.6	119880	1.1	0	0
98.6	99.3	Sr+; < P >; s <b>Sericite alt; pervasive; strong</b> Strong pervasive sericite alteration throughout with minor crackle breccia texture and narrow 10cm quartz vein. Quartz-carbonate vein has minor chlorite at margins and pyrite up to 3%.	98.6	99.3	119881	0.7	90	0
99.0	102.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	99.3	100.0	119883	0.7	0	0
102.0	105.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
105.0	108.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
108.0	111.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	109.7	110.7	119884	1.0	14950	2000
110.7	112.0	VN;80%;QzCb;;;Sf05; <b>Vein 80% Quartz Carbonate Sulphides05</b> Quartz carbonate vein system; irregular; minor chlorite alteration at margins; minor sulphides up to 5% in places; hosted in a dominantly ash tuff.	110.7	111.4	119885	0.7	12090	7000
111.0	114.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	111.4	112.0	119886	0.6	1380	0
112.0	132.0	TU; Si+ Fl <b>Tuff; Silica Flooding</b> Interval consists of a number of thick quartz veins, narrow irregular quartz veins and variable silica flooding.	112.0	112.9	119887	0.9	440	0
112.9	113.8	VN;100%;QzCb;;;Py07; <b>Vein 100% Quartz Carbonate Pyrite07</b> Quartz carbonate vein; up to 7% pyrite in places as cubes and granular masses; sharp contacts top (25° tca) and bottom (75° tca).	112.9	113.8	119888	0.9	1150	0
			113.8	114.8	119890	1.0	2460	0
114.0	117.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	114.8	115.8	119891	1.0	970	0
115.2	118.0	VN;75%;QzCb;;;Sf04; <b>Vein 75% Quartz Carbonate Sulphides04</b> Quartz carbonate vein system up to 75% in places; minor chlorite alteration at margins; fine grained sulphides up to 4%; hosted in a fine grained crystal tuff.	115.8	116.8	119892	1.0	1430	500
			116.8	117.8	119894	1.0	3080	500
117.0	120.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	117.8	118.7	119895	0.9	2110	0
			118.7	119.6	119896	0.9	90	0



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
119.6	120.2	VN;100%;QzCb;;;Py07; <b>Vein 100% Quartz Carbonate Pyrite07</b> Quartz carbonate vein; abundant chlorite alteration (deposition?) towards lower contact of vein; up to 7% pyrite in places as cubes and granular masses.	119.6	120.2	119897	0.6	1210	0
120.0	123.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	120.2	121.2	119898	1.0	290	0
			121.2	122.4	119899	1.2	460	0
			122.4	123.4	119900	1.0	1200	0
122.6	125.2	VN;90%;QzCb;;;Py08; <b>Vein 90% Quartz Carbonate Pyrite08</b> Quartz carbonate vein system, up to 100% in places; minor chlorite alteration at the margins throughout; some evidence of quartz flooding; fine pyrite up to 8% in places.						
123.0	126.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	123.4	124.4	8551	1.0	1350	0
			124.4	125.2	8552	0.8	3850	0
			125.2	126.2	8553	1.0	20	0
126.0	129.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	126.2	127.2	8554	1.0	320	0
			127.2	128.3	8556	1.1	0	0
			128.3	129.3	8557	1.0	40	0
128.5	128.7	VN;75%;QzCb;;;Sf02; <b>Vein 75% Quartz Carbonate Sulphides02</b> Quartz carbonate veins system; minor chlorite alteration at margin; minor sulphides.						
129.0	132.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	129.3	130.3	8558	1.0	160	0
			130.3	131.3	8559	1.0	20	0
			131.3	132.6	8560	1.3	20	0
132.0	135.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
132.6	133.1	Sr+; < P >; s <b>Sericite alt; pervasive; strong</b> Strong pervasive sericite alteration in ash tuff. The ash/crystal tuff unit above is silica flooded.	132.6	133.6	8561	1.0	20	0
			133.6	134.6	8563	1.0	50	0
135.0	138.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
138.0	141.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	139.5	140.5	8564	1.0	0	0
139.9	140.5	Sr+; < P >; s <b>Sericite alt; pervasive; strong</b> Strong pervasive sericite alteration.	140.5	141.5	8565	1.0	0	0
141.0	144.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
141.7	143.7	TL; MAS <b>Tuff-Lapilli; Massive</b> Dark grey; lapilli tuff bed; fine to medium grained with clasts up to 0.5 cm; poorly sorted; possible minor quartz flooding; minor fine disseminated sulphides.						
144.0	147.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
144.1	145.6	TL; MAS						



## Breakaway Exploration Management inc.

DESCRIPTION		ASSAYS									
		From	To	Nmb	LENGTH	Au ppb	Ag ppb				
147.0	147.0	<b>Tuff-Lapilli; Massive</b> Dark grey; lapilli tuff bed; fine to medium grained with clasts up to 0.5 cm; poorly sorted; possible minor quartz flooding; minor fine disseminated sulphides. LA <b>Laminated79°</b>									
147.0	150.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
150.0	153.0	152.3	153.3	8567	1.0	0	0				
150.0	153.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
152.9	152.9	LA <b>Laminated60°</b>									
152.9	153.2	VN;25%;QzCb;;;Sf02; <b>Vein 25% Quartz Carbonate Sulphides02</b> Quartz carbonate vein; minor chlorite alteration at margins of vein; minor fine sulphides.									
153.0	156.0	153.3	154.3	8568	1.0	0	0				
153.0	156.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
156.0	159.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
159.0	162.0	161.3	162.3	8569	1.0	0	0				
159.0	162.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
162.0	167.0	TL; MAS <b>Tuff-Lapilli; Massive</b> Dark grey; lapilli tuff bed; fine to medium grained with clasts up to 4 cm long and elongated; poorly sorted; possible minor quartz flooding; minor fine disseminated sulphides.									
162.0	165.0	162.3	163.3	8570	1.0	0	0				
162.0	165.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
163.3	164.6	163.3	164.3	8571	1.0	0	0				
163.3	164.6	164.3	165.3	8572	1.0	0	0				
163.3	164.6	VN;20%;QzCb;;;; <b>Vein 20% Quartz Carbonate</b> Quartz carbonate vein system; minor chlorite at margins of vein; minor sulphides; zone of strange breccia looking quartz/argillite at top of interval (10ccm wide).									
165.0	168.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
168.0	171.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
171.0	174.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>									
171.1	171.1	LA <b>Laminated50°</b>									



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
174.0	177.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
177.0	180.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
180.0	183.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
183.0	186.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
186.0	189.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
189.0	192.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
189.1	189.1	LA <b>Laminated55°</b>						
191.2	194.8	TL <b>Tuff-Lapilli</b> Dark grey; lapilli tuff; medium to coarse grained; poorly sorted; clasts are elongated and "squished", and up to 3 cm in length; no visible sulphides or veining.						
192.0	195.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
195.0	198.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	196.0 197.1	197.1 198.1	8573 8574	1.1 1.0	0 0	0 0
197.7	208.0	QFP; MAS <b>Quartz Feldspar Porphyry; Massive</b> Dark grey; quartz feldspar porphyry; medium grained; massive; minor fine grained sulphides; minor quartz veining.						
198.0	201.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	198.1 199.1	199.1 200.1	8575 8576	1.0 1.0	0 0	0 0
200.1	202.3	I3O; I3B; DN <b>Lamprophyre; Diabase; Dyke</b> Black; lamprophyre/diabase dyke; fine grained; massive; chlorite alteration at lower contact; sharp upper and lower contact.						
200.1	200.1	CN <b>Contact12°</b> Upper contact UM Dyke	200.1	201.2	8577	1.1	0	0
201.0	204.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	201.2	202.3	8578	1.1	0	0
202.3	202.3	CN <b>Contact21°</b> Lower contact UM Dyke	202.3 203.3	203.3 204.3	8580 8581	1.0 1.0	0 0	0 0
204.0	207.0		204.3	205.3	8582	1.0	0	0



### Breakaway Exploration Management inc.

DESCRIPTION	ASSAYS					
	From	To	Nmb	LENGTH	Au ppb	Ag ppb
<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	205.3	206.3	8583	1.0	0	0
207.0 208.0	206.3	207.2	8584	0.9	0	0
<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	207.2	208.0	8585	0.8	0	0
<b>208.0 DDH end</b> Number of samples : 66 Number of samples QA/QC : 10 Total lenght sampled : 63.7						

**Breakaway Exploration Management Inc.****DDH : RAN-08-05**Claims title : 41O15SW  
Township : Raney  
Range :  
Lot :Section :  
Level :  
Work place : Shinning TreeDrilled by : Salo Drilling  
Geologist : J. SimperFrom : 3/13/2008  
Description date : 3/13/2008

To : 3/13/2008

## Collar

Azimuth : 180.0°  
Plunge : -50.0°  
Length : 165.0mNAD 83 Zone 17  
Longitude (East) : 365502.0  
Latitude (North) : 5303602.0  
Elevation : 394.0

## Down hole survey

Type	Depth	Azimuth	Plunge

## Comments

Core is stored at Larry Salo's house in Shinning Tree, Ontario  
Index Tray:  
8.2m to 8.25m Quartz Feldspar Porphyry  
17.8m to 17.9m QFP with Se+ <p> s  
82.0m to 82.1m Ash Tuff with Se+ <p> s  
104.1m to 104.2m Crackle Breccia  
158.2m to 158.3m S6A

Core size : NQ Core

Cemented : No

Storage : Yes



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS					
			From	To	Nmb	LENGTH	Au ppb	Ag ppb
0.0	7.0	OB <b>Overburden</b> Casing, sand, gravel, etc.	0.0	0.0	119858 (Std)	0.0	340	1100
			0.0	0.0	119845 (Bln)	0.0	0	0
			0.0	0.0	119841 (Dbl)	0.0	0	0
			0.0	0.0	119834 (Std)	0.0	2910	4600
			0.0	0.0	119821 (Bln)	0.0	0	0
			0.0	0.0	119817 (Dbl)	0.0	0	0
			0.0	0.0	119810 (Std)	0.0	340	1100
7.0	47.2	QFP; MAS <b>Quartz Feldspar Porphyry; Massive</b> Dark grey; Quartz Feldspar Porphyry; fine to medium grained; massive; zones of intense yellow/orange sericite alteration ; sericite alteration can be particularly strong in some zones; minor fine grained disseminated sulphides throughout; minor sporadic and variable quartz veining, no visible sulphides with veins.						
	7.0	8.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	8.0	11.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	11.0	14.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	14.0	17.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	15.2	16.2	119809	1.0	160	0
	16.2	22.0 Sr+; < P >; s <b>Sericite alt; pervasive; strong</b> Strong pervasive, sericite alteration throughout.	16.2	17.2	119811	1.0	580	0
	17.0	20.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	17.2	18.2	119812	1.0	160	0
			18.2	19.2	119813	1.0	0	0
			19.2	20.2	119814	1.0	20	0
	20.0	23.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	20.2	21.2	119815	1.0	10	0
			21.2	22.2	119816	1.0	30	0
			22.2	23.2	119818	1.0	0	0
	23.0	26.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	26.0	29.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	29.0	32.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	32.0	35.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	34.6	35.6	119819	1.0	0	0
	35.0	38.0 <b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>						
	35.6	40.0 Sr+; < P >; s <b>Sericite alt; pervasive; strong</b>	35.6	36.6	119820	1.0	0	0
			36.6	37.6	119822	1.0	30	0





**Breakaway Exploration Management inc.**

DESCRIPTION		ASSAYS					
		From	To	Nmb	LENGTH	Au ppb	Ag ppb
38.0	41.0	Strong pervasive, sericite alteration throughout.					
		37.6	38.6	119823	1.0	10	0
		38.6	39.6	119824	1.0	10	0
		39.6	40.6	119825	1.0	0	0
		40.6	41.6	119826	1.0	0	0
41.0	44.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
44.0	47.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
		45.4	46.2	119827	0.8	0	0
		46.2	47.2	119828	1.0	30	0
47.0	50.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
47.2	100.1	TD; S6A; LA; LM					
		47.2	48.2	119829	1.0	0	0
		48.2	49.2	119830	1.0	0	0
		<b>Tuff-Ash; Siltstone; Laminated; Bedding (thin)</b>					
		Dark grey - light grey alternating bands of fine grained ash tuff and thin black argillite layers; some narrow zones of fine grained crystal tuff; bedding is fairly rhythmic, although in places is highly convoluted and warped from aqueous settling; moderated sericite alteration throughout with graphite alteration occurring within the argillite layers - the graphitic alteration begins strongly at 60.1m; fine granular masses of pyrite and some cubic pyrite occur from 69.3m on, sulphides are primary due to reducing deposit conditions; minor variable quartz veining occurs infrequently.					
50.0	53.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
53.0	56.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
56.0	59.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
59.0	62.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
60.1	100.1	Gp+; ( L ); w; Sr+; < P >; s					
		<b>Graphitic alt; local; weak; Sericite alt; pervasive; strong</b>					
		Local, weak graphitic alteration occurs with the argillite bands throughout.					
		Sericite alteration begins at 81.8m.					
62.0	65.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
65.0	68.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
68.0	71.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					
69.3	84.0	Py10; gx; cx					
		<b>Pyrite10%; Granular; Cubic</b>					
		Fine granular masses and cubes of pyrite up to 10% in places, as well as fine disseminated pyrite.					
71.0	74.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:]; Weathering: ; Strength:</b>					



**Breakaway Exploration Management inc.**

DESCRIPTION			ASSAYS						
			From	To	Nmb	LENGTH	Au ppb	Ag ppb	
74.0	77.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>							
77.0	80.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	79.7	80.7	119831	1.0	0	0	
80.0	83.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	80.7	81.7	119832	1.0	0	0	
			81.7	82.7	119833	1.0	0	0	
			82.7	84.0	119835	1.3	0	0	
83.0	86.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>							
86.0	89.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>							
89.0	92.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>							
92.0	95.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>							
95.0	98.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>							
98.0	101.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	99.0	100.0	119836	1.0	0	0	
			100.0	101.0	119837	1.0	0	0	
100.1	165.0	TD; CBx <b>Tuff-Ash; Crackle Breccia</b> Light grey; ash (rhyolite) tuff; very fine grained; well laminated; crackle breccia occurs at top of interval near contact, gaining strength downward; pervasive strong sericite alteration throughout; minor fined grained pyrite occurs throughout; minor quartz carbonate veining, tends to be irregular and inconsistent. Zones of argillite rich, ankerite altered, thinly laminated ash tuff are dispersed throughout.							
100.1	141.7	Sr+; < P >; s <b>Sericite alt; pervasive; strong</b> Pervasive, strong sericite alteration throughout.	101.0	102.0	119838	1.0	0	0	
101.0	104.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	102.0	103.0	119839	1.0	0	0	
			103.0	104.0	119840	1.0	0	0	
			104.0	105.0	119842	1.0	0	0	
104.0	107.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	105.0	105.6	119843	0.6	0	0	
			105.6	106.2	119844	0.6	0	0	
106.2	108.0	TD; S6A; LA; LM <b>Tuff-Ash; Siltstone; Laminated; Bedding (thin)</b> Dark grey/black; ash tuff & argillite siltstone alternating; well bedded (thin) and very well laminated; ankerite alteration occurs throughout; well mineralized with granular pyrite throughout.	106.2	107.1	119846	0.9	0	0	
107.0	110.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>	107.1	108.0	119847	0.9	0	0	
			108.0	109.0	119848	1.0	0	0	
			109.0	109.8	119849	0.8	0	0	
110.0	110.2	TD; S6A; LA; LM							



## Breakaway Exploration Management inc.

DESCRIPTION		ASSAYS					
		From	To	Nmb	LENGTH	Au ppb	Ag ppb
110.0	113.0	<b>Tuff-Ash; Siltstone; Laminated; Bedding (thin)</b> Dark grey/black; ash tuff & argillite siltstone alternating; well bedded (thin) and very well laminated; ankerite alteration occurs throughout; well mineralized with granular pyrite throughout.					
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
113.0	116.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
114.0	114.6	114.1	114.6	119850	0.5	0	0
		VN;30%;QzCb;;;; <b>Vein 30% Quartz Carbonate</b> Irregular quartz carbonate veining, ~30%; minor chlorite alteration along margins of vein; minor fine sulphides.					
116.0	119.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
119.0	122.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
121.0	121.6	121.1	121.6	119851	0.5	0	0
		TD; S6A; LA; LM <b>Tuff-Ash; Siltstone; Laminated; Bedding (thin)</b> Dark grey/black; ash tuff & argillite siltstone alternating; well bedded (thin) and very well laminated; ankerite alteration occurs throughout; well mineralized with granular pyrite throughout.					
122.0	125.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
125.0	128.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
128.0	131.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
131.0	134.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
134.0	137.0	136.1	137.1	119852	1.0	0	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
136.3	141.7	TD; CBx <b>Tuff-Ash; Crackle Breccia</b> Yellow/grey; crackle breccia; pervasive strong sericite alteration throughout; minor fined grained pyrite occurs throughout.					
137.0	140.0	137.1	138.1	119853	1.0	0	9100
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
		138.1	139.1	119854	1.0	0	0
		139.1	140.1	119855	1.0	0	0
140.0	143.0	140.1	141.1	119856	1.0	0	0
		<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					
		141.1	141.7	119857	0.6	0	0
		141.7	142.7	119859	1.0	0	0
		142.7	143.7	119860	1.0	0	0
143.0	146.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type:  Angle:; Weathering: ; Strength:</b>					



**Breakaway Exploration Management inc.**

DESCRIPTION		ASSAYS				
		From	To	Nmb	LENGTH	Au ppb
146.0	149.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>				
147.5	148.2	TD; S6A; LA; LM <b>Tuff-Ash; Siltstone; Laminated; Bedding (thin)</b> Dark grey/black; ash tuff & argillite siltstone alternating; well bedded (thin) and very well laminated; ankerite alteration occurs throughout; well mineralized with granular pyrite throughout.				
148.2	148.2	LA <b>Laminated85°</b>				
149.0	152.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>				
152.0	155.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>				
155.0	158.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>				
158.0	161.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>				
158.2	158.9	TD; S6A; LA; LM <b>Tuff-Ash; Siltstone; Laminated; Bedding (thin)</b> Dark grey/black; ash tuff & argillite siltstone alternating; well bedded (thin) and very well laminated; ankerite alteration occurs throughout; well mineralized with granular pyrite throughout.				
161.0	164.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>				
161.2	161.2	LA <b>Laminated64°</b>				
164.0	165.0	<b>RQD: %; Recovery: 100%; Joints:[Number:] Type: Angle:; Weathering: ; Strength:</b>				
165.0	<b>DDH end</b> Number of samples : 45 Number of samples QA/QC : 7 Total lenght sampled : 42.5					

## **Appendix D - Assay Certificates**



# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0306 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 1  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

Linda Melnbardis BSc  
President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0306**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
	Unit Symbol	ppm	ppm
	Detection Limit	0.01	0.5
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	117551	0.09	< 0.5
2	117552	0.02	< 0.5
3	117553	0.55	< 0.5
4	117554	< 0.01	< 0.5
5	117555	< 0.01	< 0.5
6	117556	0.03	< 0.5
7	117557	0.01	< 0.5
8	117558	0.33	1.1
9	117559	< 0.01	< 0.5
10	117560	0.76	< 0.5
11	117561	0.09	< 0.5
12	117562	< 0.01	< 0.5
13	117563	< 0.01	< 0.5
14	117564	< 0.01	< 0.5
15	117565	< 0.01	< 0.5
16	117566	< 0.01	< 0.5
17	117567	< 0.01	< 0.5
18	117568	< 0.01	< 0.5
19	117569	< 0.01	< 0.5
20	117570	< 0.01	< 0.5
21	117571	< 0.01	< 0.5
22	117572	< 0.01	< 0.5
23	117573	< 0.01	< 0.5
24	117574	< 0.01	< 0.5

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0306**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
BLANC_PREP QC Sample	< 0.01	--
BLANC_PREP QC Sample	< 0.01	--
OxE56 Meas	0.64	--
OxE56 Cert	0.611	--
117574 Orig	< 0.01	< 0.5
117574 Rep Dup	< 0.01	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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BOURLAMAQUE ASSAY LABORATORIES LTD.

**ANALYSIS REPORT**

**B08-0307 Final**

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 2  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0307**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
		ppm	ppm
	Unit Symbol	0.01	0.5
	Detection Limit		
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	117575	< 0.01	< 0.5
2	117576	0.01	< 0.5
3	117577	0.03	< 0.5
4	117578	< 0.01	< 0.5
5	117579	< 0.01	< 0.5
6	117580	< 0.01	< 0.5
7	117581	< 0.01	< 0.5
8	117582	2.91	4.7
9	117583	0.16	< 0.5
10	117584	0.80	< 0.5
11	117585	0.03	< 0.5
12	117586	0.66	< 0.5
13	117587	< 0.01	< 0.5
14	117588	0.04	< 0.5
15	117589	0.02	< 0.5
16	117590	0.29	< 0.5
17	117591	< 0.01	< 0.5
18	117592	< 0.01	< 0.5
19	117593	< 0.01	< 0.5
20	117594	< 0.01	< 0.5
21	117595	< 0.01	< 0.5
22	117596	< 0.01	< 0.5
23	117597	< 0.01	< 0.5
24	117598	< 0.01	< 0.5

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0307**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
OxJ64 Meas	2.39	--
OxJ64 Cert	2.366	--
117598 Orig	< 0.01	< 0.5
117598 Rep Dup	< 0.01	< 0.5
117598 Prep Dup	< 0.01	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0308 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 3  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0308**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
	Unit Symbol	ppm	ppm
	Detection Limit	0.01	0.5
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	117599	< 0.01	< 0.5
2	117600	0.01	< 0.5
3	117501	0.01	< 0.5
4	117502	< 0.01	< 0.5
5	117503	< 0.01	< 0.5
6	117504	< 0.01	< 0.5
7	117505	0.33	1.0
8	117506	< 0.01	< 0.5
9	117507	< 0.01	< 0.5
10	117508	< 0.01	< 0.5
11	117509	2.20	0.5
12	117510	0.96	< 0.5
13	117511	0.06	< 0.5
14	117512	0.09	< 0.5
15	117513	0.06	< 0.5
16	117514	0.02	< 0.5
17	117515	0.04	< 0.5
18	117516	< 0.01	< 0.5
19	117517	0.11	< 0.5
20	117518	0.08	< 0.5
21	117519	0.51	< 0.5
22	117520	0.04	< 0.5
23	117521	0.04	< 0.5
24	117522	0.12	< 0.5

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0308**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
Oxl54 Meas	1.90	--
Oxl54 Cert	1.868	--
117522 Orig	0.12	< 0.5
117522 Rep Dup	0.09	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0309 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 4  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0309**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
	Unit Symbol	ppm	ppm
	Detection Limit	0.01	0.5
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	117523	0.05	< 0.5
2	117524	0.07	< 0.5
3	117525	0.03	< 0.5
4	117526	0.02	< 0.5
5	117527	0.20	0.5
6	117528	0.11	< 0.5
7	117529	2.81	4.9
8	117530	6.04	0.7
9	117531	0.08	< 0.5
10	117532	0.01	< 0.5
11	117533	0.01	< 0.5
12	117534	0.02	< 0.5
13	117535	0.15	< 0.5
14	117536	0.14	< 0.5
15	117537	0.03	< 0.5
16	117538	< 0.01	< 0.5
17	117539	< 0.01	< 0.5
18	117540	< 0.01	< 0.5
19	117541	< 0.01	< 0.5
20	117542	< 0.01	< 0.5
21	117543	< 0.01	< 0.5
22	117544	< 0.01	< 0.5
23	117545	< 0.01	< 0.5
24	117546	< 0.01	< 0.5

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0309**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
OxE56 Meas	0.62	--
OxE56 Cert	0.611	--
117546 Orig	< 0.01	< 0.5
117546 Rep Dup	< 0.01	< 0.5
117546 Prep Dup	< 0.01	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

Linda Melnbardis BSc  
 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0310 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 5  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0310**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
		Unit Symbol	ppm
	Detection Limit	0.01	0.5
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	117547	< 0.01	< 0.5
2	117548	0.02	< 0.5
3	117549	< 0.01	< 0.5
4	117550	< 0.01	< 0.5
5	119808	< 0.01	< 0.5
6	119809	0.16	< 0.5
7	119810	0.34	1.1
8	119811	0.58	< 0.5
9	119812	0.16	< 0.5
10	119813	< 0.01	< 0.5
11	119814	0.02	< 0.5
12	119815	0.01	< 0.5
13	119816	0.03	< 0.5
14	119817	< 0.01	< 0.5
15	119818	< 0.01	< 0.5
16	119819	< 0.01	< 0.5
17	119820	< 0.01	< 0.5
18	119821	< 0.01	< 0.5
19	119822	0.03	< 0.5
20	119823	0.01	< 0.5
21	119824	0.01	< 0.5
22	119825	< 0.01	< 0.5
23	119826	< 0.01	< 0.5
24	119827	< 0.01	< 0.5

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0310**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
Oxl54 Meas	1.95	--
Oxl54 Cert	1.868	--
119827 Orig	< 0.01	< 0.5
119827 Rep Dup	< 0.01	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

Linda Melnbardis BSc  
 President

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BOURLAMAQUE ASSAY LABORATORIES LTD.

**ANALYSIS REPORT**

**B08-0311 Final**

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 6  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

Linda Melnbardis BSc  
President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0311**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
		ppm	ppm
	Unit Symbol	0.01	0.5
	Detection Limit		
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	119828	0.03	< 0.5
2	119829	< 0.01	< 0.5
3	119830	< 0.01	< 0.5
4	119831	< 0.01	< 0.5
5	119832	< 0.01	< 0.5
6	119833	< 0.01	< 0.5
7	119834	2.91	4.6
8	119835	< 0.01	< 0.5
9	119836	< 0.01	< 0.5
10	119837	< 0.01	< 0.5
11	119838	< 0.01	< 0.5
12	119839	< 0.01	< 0.5
13	119840	< 0.01	< 0.5
14	119841	< 0.01	< 0.5
15	119842	< 0.01	< 0.5
16	119843	< 0.01	< 0.5
17	119844	< 0.01	< 0.5
18	119845	< 0.01	< 0.5
19	119846	< 0.01	< 0.5
20	119847	< 0.01	< 0.5
21	119848	< 0.01	< 0.5
22	119849	< 0.01	< 0.5
23	119850	< 0.01	< 0.5
24	119851	< 0.01	< 0.5

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0311**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
Ox154 Meas	1.91	--
Ox154 Cert	1.868	--
119851 Orig	< 0.01	< 0.5
119851 Rep Dup	< 0.01	< 0.5
119851 Prep Dup	< 0.01	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0312 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 7  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0312**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
		ppm	ppm
	Unit Symbol	0.01	0.5
	Detection Limit		
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	119852	< 0.01	< 0.5
2	119853	< 0.01	9.1
3	119854	< 0.01	< 0.5
4	119855	< 0.01	< 0.5
5	119856	< 0.01	< 0.5
6	119857	< 0.01	< 0.5
7	119858	0.34	1.1
8	119859	< 0.01	< 0.5
9	119860	< 0.01	< 0.5
10	119861	0.05	< 0.5
11	119862	0.06	< 0.5
12	119863	0.05	< 0.5
13	119864	0.06	< 0.5
14	119865	0.09	< 0.5
15	119866	0.01	< 0.5
16	119867	0.05	< 0.5
17	119868	0.03	< 0.5
18	119869	< 0.01	< 0.5
19	119870	0.36	< 0.5
20	119871	2.09	< 0.5
21	119872	0.88	< 0.5
22	119873	0.31	< 0.5
23	119874	0.50	< 0.5
24	119875	0.68	< 0.5

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0312**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
OxJ64 Meas	2.44	--
OxJ64 Cert	2.366	--
119875 Orig	0.68	< 0.5
119875 Rep Dup	0.77	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0313 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 8  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU010 Au Pyroanalyse-gravimétrie 30g  
Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0313**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au		Ag
		Unit Symbol	ppm	g/Mt
	Detection Limit	0.01	0.10	0.5
	Analysis Method	PYRO-SAA	PYRO-GRAV	DIG-AR_Ag
1	119876	0.01	--	< 0.5
2	119877	0.01	--	< 0.5
3	119878	0.05	--	< 0.5
4	119879	< 0.01	--	< 0.5
5	119880	< 0.01	--	< 0.5
6	119881	0.09	--	< 0.5
7	119882	2.92	--	4.5
8	119883	< 0.01	--	< 0.5
9	119884	> 10.00	14.95	2.0
10	119885	> 10.00	12.09	7.0
11	119886	1.38	--	< 0.5
12	119887	0.44	--	< 0.5
13	119888	1.15	--	< 0.5
14	119889	2.53	--	< 0.5
15	119890	2.46	--	< 0.5
16	119891	0.97	--	< 0.5
17	119892	1.43	--	0.5
18	119893	< 0.01	--	< 0.5
19	119894	3.08	--	0.5
20	119895	2.11	--	< 0.5
21	119896	0.09	--	< 0.5
22	119897	1.21	--	< 0.5
23	119898	0.29	--	< 0.5
24	119899	0.46	--	< 0.5

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0313**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Au	Ag
Unit Symbol	ppm	g/Mt	ppm
Detection Limit	0.01	0.10	0.5
Analysis Method	PYRO-SAA	PYRO-GRAV	DIG-AR_Ag
OxK48 Meas	--	3.53	--
OxK48 Cert	--	3.557	--
OxJ64 Meas	2.43	--	--
OxJ64 Cert	2.366	--	--
119899 Orig	0.46	--	< 0.5
119899 Rep Dup	0.49	--	< 0.5
119899 Prep Dup	0.73	--	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-GRAV	Pyroanalyse Gravimétrie
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0314 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 24  
Project name: RANEY  
Batch number: 9  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0314**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
		ppm	ppm
	Unit Symbol	0.01	0.5
	Detection Limit		
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	119900	1.20	< 0.5
2	8551	1.35	< 0.5
3	8552	3.85	< 0.5
4	8553	0.02	< 0.5
5	8554	0.32	< 0.5
6	8555	0.33	1.1
7	8556	< 0.01	< 0.5
8	8557	0.04	< 0.5
9	8558	0.16	< 0.5
10	8559	0.02	< 0.5
11	8560	0.02	< 0.5
12	8561	0.02	< 0.5
13	8562	0.02	< 0.5
14	8563	0.05	< 0.5
15	8564	< 0.01	< 0.5
16	8565	< 0.01	< 0.5
17	8566	0.01	< 0.5
18	8567	< 0.01	< 0.5
19	8568	< 0.01	< 0.5
20	8569	< 0.01	< 0.5
21	8570	< 0.01	< 0.5
22	8571	< 0.01	< 0.5
23	8572	< 0.01	< 0.5
24	8573	< 0.01	< 0.5

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0314**  
 09-Apr-08

## QUALITY CONTROL

Analyte Symbol	Au	Ag
Unit Symbol	ppm	ppm
Detection Limit	0.01	0.5
Analysis Method	PYRO-SAA	DIG-AR_Ag
OxE56 Meas	0.62	--
OxE56 Cert	0.611	--
8573 Orig	< 0.01	< 0.5
8573 Rep Dup	< 0.01	< 0.5

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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 President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

## ANALYSIS REPORT

### B08-0315 Final

Client name: **HINTERLAND METALS INC.**  
Submitted by: Martin Boulet  
Attention: Mark Fekete  
680 3rd Ave. Suite 203  
Val-d'Or (Quebec) J9P 1S5  
Canada

Type(s) of sample(s): Carotte / Core  
Number of samples: 13  
Project name: RANEY  
Batch number: 10  
Date received: March 17, 2008  
Report date: April 09, 2008  
Analysis instructions: Code AU020 Au Pyroanalyse-SAA 30g  
Code GEAG Ag Géochimique

Total pages: 3 (including this page)

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President

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0315**  
 09-Apr-08

## RESULTS

	Analyte Symbol	Au	Ag
	Unit Symbol	ppm	ppm
	Detection Limit	0.01	0.5
	Analysis Method	PYRO-SAA	DIG-AR_Ag
1	8574	< 0.01	< 0.5
2	8575	< 0.01	< 0.5
3	8576	< 0.01	< 0.5
4	8577	< 0.01	< 0.5
5	8578	< 0.01	< 0.5
6	8579	2.96	5.0
7	8580	< 0.01	< 0.5
8	8581	< 0.01	< 0.5
9	8582	< 0.01	< 0.5
10	8583	< 0.01	< 0.5
11	8584	< 0.01	< 0.5
12	8585	< 0.01	< 0.5
13	8586	< 0.01	< 0.5

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# BOURLAMAQUE ASSAY LABORATORIES LTD.

Client: Hinterland Metals Inc.  
 Project: RANEY  
 Sample type(s): Carotte / Core  
 Submitted by: Martin Boulet

ANALYSIS CERTIFICATE  
**Report No. B08-0315**  
 09-Apr-08

## QUALITY CONTROL

<b>Analyte Symbol</b>	Au
<b>Unit Symbol</b>	ppm
<b>Detection Limit</b>	0.01
<b>Analysis Method</b>	PYRO-SAA
OxJ64 Meas	2.41
OxJ64 Cert	2.366

## ANALYSIS METHODS

Method Code	Description
DIG-AR_Ag	Digestion Aqua Regia
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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## **Appendix E - Analytical Procedures**



## LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE. BOURLAMAQUE ASSAY LABORATORIES LTD.

### Procedure

At reception, samples are sorted, weighed and labelled. The entire sample is single stage (one pass) crushed to a minimum 80% <1.70 mm. From the crushed material, a Jones riffle is used to split a nominal 250-g sub-sample, which is pulverized to a minimum 85 % <75  $\mu\text{m}$  (pulp). The remaining crushed material (reject) is stored for future reference. Gold is determined on a 30-gram portion of the sample pulp by classical fire assay (FA) and atomic absorption spectrometry (AAS) with a lower reporting limit of 0.01 ppm. Samples reporting values >10.00 ppm are resubmitted for fire assay with a gravimetric finish.

Silver, copper and zinc are determined on a 0.50 g portion of the pulp using an aqua regia leach and atomic absorption spectrometry with lower reporting limits of 0.5 ppm, 5 ppm and 5 ppm respectively.

### Quality Control

Gold barren rock is passed through the sample preparation circuit before each batch operation. One or two blank samples are processed through the entire preparation and analytical procedure. Sample preparation equipment is cleaned between each sample with a jet of compressed air. Preparation duplicates are prepared at forty (40) sample intervals. Particle size is monitored through screen tests at the beginning of each work shift, each batch process, and on every 40<sup>th</sup> sample at both stages. Performance data is recorded for reference at any time. This allows us to respond immediately to any decline in sample preparation quality and assures that preparation work specifications are consistently achieved. Duplicate analyses on pulps are at twenty sample intervals. A gold reference material is analysed for each batch of forty samples. Reagent blanks are analysed for atomic absorption methods and calibration standards are verified at the end of each instrument run. Balance accuracies are verified daily with calibrated weights.

Linda-D. Melnbardis, chemist  
Quebec Order of Chemists 82-119

## **Appendix F - Reference Standards**



**ORE RESEARCH & EXPLORATION PTY LTD**

6-8 Gatwick Drive, Bayswater North, Vic 3153 AUSTRALIA

Telephone: 61-3-9729 0333 Facsimile: 61-3-9729 4777

---

**CERTIFICATE OF ANALYSIS FOR**  
**COPPER-GOLD ORE REFERENCE MATERIAL**  
**OREAS 54Pa**

**SUMMARY STATISTICS**

Constituent	Certified value	95% Confidence interval		Tolerance interval $1-\alpha=0.99, \rho=0.95$	
		Low	High	Low	High
Gold, Au (ppm)	2.90	2.83	2.96	2.86	2.93
Copper, Cu (wt.%)	1.55	1.54	1.56	1.53	1.57

*Prepared by:*  
*Ore Research & Exploration Pty Ltd*  
*October 2006*



**ORE RESEARCH & EXPLORATION PTY LTD**

6-8 Gatwick Drive, Bayswater North, Vic 3153 AUSTRALIA

Telephone: 61-3-9729 0333 Facsimile: 61-3-9729 4777

---

**CERTIFICATE OF ANALYSIS FOR**  
**COPPER-GOLD ORE REFERENCE MATERIAL**  
**OREAS 52Pb**

**SUMMARY STATISTICS**

Constituent	Recommended value	95% Confidence interval		Tolerance interval $1-\alpha=0.99, \rho=0.95$	
		Low	High	Low	High
Gold, Au (ppb)	307	299	315	301	313
Copper, Cu (ppm)	3338	3301	3375	3286	3390

*Prepared by:*  
*Ore Research & Exploration Pty Ltd*  
*December 2006*