

Ministry of Energy & Mines
 Energy & Minerals Division
 Geological Survey Branch

**ASSESSMENT REPORT
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)]	TOTAL COST
Assessment Report: Ptarmigan Property, Golden Mining Division, BC, Canada	\$316,685.58

 AUTHOR(S) Stephen Wetherup, BSc., P.Geo. SIGNATURE(S) _____

 NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) MX-5-649, July 23, 2009 YEAR OF WORK 2009

 STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) SOW #4466658, February 1, 2010

 PROPERTY NAME Ptarmigan Property

 CLAIM NAME(S) (on which work was done) 583845, 583849, 583853, 583855, 583856, 583857, 583858, 583860, 583862,
583863, 598556, 598575, 598576, 599243, 551570, DL5345, DL5346, DL5347, DL5348, DL5349

 COMMODITIES SOUGHT Ag, Au, Cu, Pb

 MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 082KSE030

 MINING DIVISION Golden NTS 082K/08

 LATITUDE 50 ° 29 ' 46 " LONGITUDE 116 ° 24 ' 25 " (at centre of work)

OWNER(S)

 1) Steve Konopelky (FMC # 110029244) 2) Eugen Seel (FMC # 110038250)

MAILING ADDRESS

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Calgary, Alberta, T2C 4K6, Ph: 403-720-0335
5737 Seel Road, Box 70, Edgewater, BC,
V0A 1E0

OPERATOR(S) [who paid for the work]

 1) Rupestris Mines Inc. 2) _____

MAILING ADDRESS

As above

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Middle Proterozoic, Purcell Supergroup, Mount Nelson Formation, dolomite, quartzite, vein, replacement,
Mississippi Value, Manto, silver

 REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS British Columbia Ministry of Energy, Mines, and
Petroleum Resources, 1899. Annual Report, 1899 - 1905; 1907, 1909, 1915, 1919, 1920, 1922, 1923, 1927, 1928, 1955 - 1960; 1963, 1964

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)	25 ha surface, 250 m underground	DI5345, DL5346, DL5347, DL5348, DI5349	\$8,926
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____		DI5345, DL5346, DL5347, DL5348, DI5349	\$26,702.31
Radiometric _____			
Seismic _____			
Other _____			
Airborne <u>AeroTEM TDEM</u>	144 line km	#583845, 583849, 583853, 583857, 551570, DL5345, DL5346, DI5347, DI5348, DI5349	\$45,152.57
GEOCHEMICAL (number of samples analysed for ...)			
Soil _____			
Silt _____			
Rock _____	57 samples	DL 5345, DL 5346	\$8,720
Other _____			
DRILLING (total metres; number of holes, size)			
Core _____	1388.2 m, 18 holes, BTW	DL 5345, DL 5346	\$200,086.08
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____			
PREPARATORY/PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____	45 m	DL 5345	\$27,098.62
Underground dev. (metres) _____			
Other _____			
		TOTAL COST	\$316,685.58

BC Geological Survey
Assessment Report
31512

ASSESSMENT REPORT

PTARMIGAN PROJECT

GOLDEN MINING DIVISION
BRITISH COLUMBIA, CANADA

NTS MAP SHEET
082K/08

50° 29' 46" N LAT., 116° 24' 25" W LONG.

OWNERS:

STEVE KONOPELKY

TITLES #583845, 583849, 583853, 583855, 583856, 583857, 583858, 583860, 583862, 583863,
598556, 598575, 598576, 599243,

EUGEN SEEL

TITLES # 551570, DL5345, DL5346, DL5347, DL5348, DL5349

OPERATOR:



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APRIL 30, 2010

PREPARED BY:



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TABLE OF CONTENTS

SUMMARY	4
1.0 INTRODUCTION AND TERMS OF REFERENCE	7
1.1 INTRODUCTION	7
1.2 TERMS OF REFERENCE AND UNITS	7
2.0 PROPERTY DESCRIPTION AND LOCATION	8
2.1 LOCATION	8
2.2 DESCRIPTION AND OWNERSHIP	8
3.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY.....	12
3.1 ACCESS	12
3.2 CLIMATE AND VEGETATION.....	12
3.3 PHYSIOGRAPHY.....	12
3.4 INFRASTRUCTURE AND LOCAL RESOURCES	13
4.0 PROPERTY HISTORY	14
4.1 PTARMIGAN AND IRON CAP MINE HISTORY	14
4.1.1 MacDonal d Mines – 1899-1901	14
4.1.2 Paulding Farnham - 1902.....	14
4.1.3 Ptarmigan Mines of the Selkirks Company Limited – 1903-1905	15
4.1.4 Herbert Carlyle Hammond – 1908	16
4.1.5 E. Watson – 1919-1923.....	16
4.1.6 Heinz K.F. Seel – 1955-1957.....	17
4.1.7 Selkirk Ptarmigan Mines Limited – 1958-1960	17
4.1.8 Belle Tahsis Mines Limited – 1963.....	17
4.1.9 Union Carbide Exploration Limited – 1964	18
4.1.10 International Kenville Gold Mines Limited – 1965.....	18
4.1.11 Voyager Petroleum Ltd. – 1971.....	18
4.2 NIP AND TUCK	18
4.2.1 1899-1901	18
4.2.2 Paulding Farnham – 1902-1905.....	18
4.2.3 W. Haupt and Tom Brown – 1906-1915	19
4.2.4 William McMillan and V. Sontag – 1919-1920	19
4.2.5 Interprovincial Mines Development Company – 1921-1922	20
4.2.6 Trethwood Mining Company Ltd. – 1923-1928.....	20

4.2.7	<i>Golden Gate Explorations Ltd. – 1982</i>	20
4.2.8	<i>2008 Rupestris Mines</i>	21
5.0	GEOLOGICAL SETTING	21
5.1	REGIONAL GEOLOGY	21
5.1.1	<i>Stratigraphy</i>	21
5.1.2	<i>Structure</i>	22
5.1.3	<i>Mineralization</i>	25
5.2	DISTRICT GEOLOGY	26
5.3	LOCAL GEOLOGY	32
6.0	DEPOSIT TYPES	32
6.1	SILVER-BASE METAL EPITHERMAL VEINS	35
6.2	CARBONATE (MANTO) REPLACEMENT DEPOSITS	36
7.0	MINERALIZATION	38
7.1	HIGH-GRADE AG-AU VEINS	40
7.2	PYRITE REPLACEMENT ZONE	40
8.0	EXPLORATION	41
8.1	GEOLOGICAL MAPPING AND PROSPECTING	42
8.2	UNDERGROUND MAPPING	42
8.3	TRENCHING	45
8.3.1	<i>Induced-Polarization Survey</i>	46
8.4	AEROTEM SURVEY	47
8.5	DRILLING	51
8.5.1	<i>Drill Results from Ptarmigan Mine Area</i>	51
8.5.2	<i>Drill Results from the Upper Ptarmigan Showing</i>	54
9.0	INTERPRETATION AND CONCLUSIONS	55
10.0	RECOMMENDATIONS	57
11.0	2009 EXPLORATION EXPENDITURES	59
12.0	REFERENCES	60

FIGURES

<i>Figure 2-1. Ptarmigan Property location map.</i>	10
<i>Figure 2-2. Ptarmigan Property claim map.</i>	11

<i>Figure 5-1. Regional geology of southeastern British Columbia and the location of the Ptarmigan Property.</i>	<i>23</i>
<i>Figure 5-2. Geology map of the Ptarmigan Property (after Pope, 1990).</i>	<i>28</i>
<i>Figure 6-1. Schematic model of a rift-related hydrothermal system (after Corbett, 2002).</i>	<i>37</i>
<i>Figure 7-1. Geological Map of the Level 1 workings in the Ptarmigan Mine.</i>	<i>39</i>
<i>Figure 8-1. Ptarmigan Mine area surface geology map.....</i>	<i>43</i>
<i>Figure 8-2. Photo of Adit #2 and the massive pyrite showing exposed during 2009.....</i>	<i>45</i>
<i>Figure 8-3. Fifth separation plan map of the chargeability results for the Ptarmigan Mine area.....</i>	<i>48</i>
<i>Figure 8-4. Fifth separation plan map of the resistivity results for the Ptarmigan Mine area.</i>	<i>49</i>
<i>Figure 8-5. AeroTEM Z1-off data for the Ptarmigan Property.</i>	<i>50</i>

TABLES

<i>Table 2-1. Ptarmigan Property summary description of mineral tenures and district lots.</i>	<i>9</i>
<i>Table 4-1. Summary of work history on the Ptarmigan and Iron Cap Mines.....</i>	<i>15</i>
<i>Table 6-1. Summary of geological characteristics of neighboring Ag-Pb-Zn Deposits.</i>	<i>33</i>
<i>Table 6-2. Recorded production from Ag-Pb-Zn deposit in the local area (from BCEMPR Inventory Reports).....</i>	<i>34</i>
<i>Table 8-1. Geochemical highlights from underground and surface sampling in 2009.</i>	<i>46</i>
<i>Table 8-2. Geochemical Highlights from the 2009 drilling on the Ptarmigan Property.....</i>	<i>53</i>
<i>Table 11-1. Exploration Expenditures</i>	<i>59</i>

APPENDICES

Appendix 1 – Certificates of Author

Appendix 2 – Drill Logs

Appendix 3 – Drill Sections

Appendix 4 – Trench, Surface and Underground Sample Data

Appendix 5 –Assay Certificates and Analytical Methods

Appendix 6 – AeroQuest Geophysical Report

Appendix 7 – Scott Geophysics IP Report

SUMMARY

The Ptarmigan Property lies about 35 km west of Radium, British Columbia within the Kootenay Mountains. It is in the Golden Mining Division, and the actual mine site is located at 50° 29' 46" N latitude and 116° 24' 25" W longitude.

Rupestis Mines Inc. has purchased 100% ownership of 1 mineral claim and 5 District Lots through an agreement with Mr. Eugen Seel and an additional 14 mineral claims from Steve Konopelky. In total the Property comprises 15 mineral claim blocks (6616 ha) and 5 District Lots (76.68 ha) with mineral rights attached.

The Property hosts the historical Ptarmigan and Iron Cap Mines which were first exploited in the early 1900s until as late as the early 1960s for high grade silver-gold-lead-zinc-copper mineralization. Most of the historical production was focused on exploiting narrow high-grade silver veins (with lesser Au-Pb-Zn-Cu) with most of the ore being hand sorted. Additionally, the mine contains a massive pyrite replacement zone which contains significant silver-gold mineralization and this style of mineralization has not been adequately explored. Little recorded exploration work has been completed on the Ptarmigan Property other than the underground development and some prospecting.

The Ptarmigan Mine lies within the Purcell Mountains, which constitute a major north-plunging structure referred to as the Purcell anticlinorium. The Ptarmigan Mine is located on a set of north trending steeply dipping normal faults which host the high-grade silver mineralization and are the locus for iron-carbonate alteration in the area. According to the regional geology maps, these normal faults separate units of the Mt Nelson Formation, belonging to the mid-Proterozoic Belt-Purcell Supergroup to the west, and the Toby Formation of the upper-Proterozoic Windermere Supergroup to the east. From work conducted by Rupestis Mines it appears that the diamictite units typical of the Toby Formation are not present in the Ptarmigan Mine area, therefore it appears that the Ptarmigan Mine is completely hosted by Mt Nelson dolomite and shale. The faults that host the mineralization in the Ptarmigan Mine area are likely Tertiary in age and related to the extensional tectonic regime that is interpreted to have occurred at that time.

Mineralization on the Ptarmigan Property occurs in two forms: (1) as sheared quartz-pyrite+/-galena+/-sphalerite+/-tetrahedrite veins within north trending normal fault zones and (2) as massive pyrite replacement zones within argillaceous dolomite units adjacent to the north trending faults. The principle targets for previous miners were high-grade tetrahedrite shoots within the sheared quartz-pyrite+/-galena+/-sphalerite+/-tetrahedrite veins. There appears to be at least two parallel fault structures in the Ptarmigan Mine workings which are discontinuously mineralized. Sheared quartz-pyrite veins are

generally 1-10 cm thick and locally contain galena and or sphalerite. Sampling from the veins ranged from 0.05 to 3.06 g/t Au and 5 to 1821 g/t Ag.

A massive pyrite replacement zone occurs within silicified Mt. Nelson argillaceous dolomite and between the two north trending normal faults which host the mineralized quartz veins in the Ptarmigan Mine workings. In the mine workings the pyrite zone is approximately lenticular in shape although internally very irregular with septa of shale within it (Figure 7-1). It appears to be ~ 40-50 m long and 1-6 m wide in the mine workings and as mentioned above it extends to the surface approximately 10 m above the Level 1 workings and what has been called Adit #2 or Level #2. Its depth extent is unknown but it appears to be a shallowly plunging lenticular prism which plunges southward. This style of mineralization is similar in character to that mined at the Mineral King deposit some 10 km south of the property. The Mineral King deposit appears to occur along the same north trending fault system as the one that is associated with mineralization in the Ptarmigan Mine and was a massive sulphide Pb-Zn-Ag-Ba-Cu replacement possibly strataform deposit with minor gold values.

Rupestris Mines Inc. began working on the Ptarmigan Property in the summer of 2008. Work consisted largely of refurbishing the historical access trails and cleaning up and securing the Ptarmigan Mine workings to limit access and mitigate liability issues associated with open mine workings and dilapidated structures. Rupestris also conducted a site visit, water sampling and contracted Canadian Mining Geophysics Ltd. who completed an airborne magnetic gradiometer and VLF-EM (very low frequency electro-magnetic) geophysical survey over the entire Ptarmigan Property in September 2008. In 2009, Rupestris Mines Inc. completed surface and underground geological mapping in the Ptarmigan Mine area, prospecting, a 6.3 line-km ground IP magnetic susceptibility survey, trenching, and 1388.2 m of diamond drilling.

The silver-gold bearing veins along the north trending faults were found to be highly discontinuous and rarely more than 20 cm wide and appear to be a poor exploration target. Individual massive to semi-massive pyrite bodies discovered thus far are discontinuous and are up to 6 m thick and occur over a strike length 50 m. They produced highly variable silver assay values from grab and chip sampling (10 to 2410 g/t Ag) and consistent gold assay values between 0.26 to 1.06 g/t Au. High grade silver assays in the massive pyrite body within the Level #1 workings appears to occur along a central north-south oriented axis within the pyrite zone.

Drilling in the Ptarmigan Mine area and in the Upper Ptarmigan area intersected several zones of massive to semi-massive failed to intersect any of the spectacular silver grades observed in the Ptarmigan Mine.

The distribution and cause of the high-grade silver mineralization in the Ptarmigan Mine area needs to be better understood and should be addressed in upcoming field programs.

Sampling and drilling in the Upper Ptarmigan area shows a general increase in Pb content within the pyrite zones (up to 0.77% over 0.35 m in hole PT09-18) and a fairly consistent level of Ag in the ~ 10 to 50 g/t range which is typical of the mineralization in the Mineral King area which historically produced Pb-Zn-Ag-Ba ore that contained approximately 27 g/t Ag, 1.78% Pb. Massive to semi-massive pyrite zones in trenches from the Upper Ptarmigan showing returned consistent gold grades (0.13 to 1.1 g/t Au) similar to those from the Ptarmigan Mine but lower silver values between 2 and 45 g/t Ag.

The most productive style of mineralization in the district is the carbonate replacement mineralization (i.e. Mineral King and Paradise deposits) and the pyrite replacement zones which occur in the Ptarmigan Mine represent a similar style of mineralization and in a similar geological setting. The discovery of additional pyrite mineralization ~250 m south of the Ptarmigan Mine during the drilling program (the Upper Ptarmigan showing) demonstrates that this pyrite mineralization is more widespread than previously thought and the considerable exploration potential on the Property for more of these zones.

The north trending fault system that cuts through the Ptarmigan Mine and is associated with all of the mineralization on the Property extends for 2.5 km south and ~7 km north from current exploration work for a total of 9.5 km of unexplored strike length. Furthermore, there is evidence that suggests a parallel north trending fault system may occur on the Property east of the Ptarmigan Mine (i.e. the Silver Queen showing and coincident aeromagnetic north trending linear features), which may lead to another 9 km of strike length to explore.

In order to develop additional drilling targets the pyrite mineralization in the Level #1 workings must be better understood and characterized. Systematic chip sampling of the pyrite zones and detailed structural mapping in Level #1 should be undertaken as well. Ultimately, this work will provide a series of exploration parameters with which Rupestris can use to develop a geological model/framework to explore the remainder of the Property more efficiently.

Geochemical silt sampling every 500 m along major drainages with follow up soil sampling is recommended throughout the Property to develop new targets for prospecting and ground geophysics.

IP has been proven to be effective in delineating geology, structure and pyrite mineralization. The IP survey conducted in 2009 should be continued south of the current grid to the Iron Cap showing as well as detailed prospecting and trenching along the north trending faults both north and south of the

Ptarmigan Mine. There are currently some drilling targets remaining in the Ptarmigan Mine area. Depending on the results of the detailed work between the Ptarmigan Mine and the Iron Cap showing additional drilling may be warranted in 2010 and ~ 2000 m is anticipated.

1.0 INTRODUCTION AND TERMS OF REFERENCE

1.1 Introduction

This report summarizes the results from exploration work conducted by Rupestris Mines Inc. on the Ptarmigan Property, in 2009.

The Ptarmigan Property lies about 35 km west of Radium, British Columbia within the Kootenay Mountains. It is in the Golden Mining Division, and the actual mine site is located at 50° 29' 46" N latitude and 116° 24' 25" W longitude.

Rupestris Mines Inc. has purchased 100% ownership of 1 mineral claim and 5 District Lots through an agreement with Mr. Eugen Seel and an additional 14 mineral claims from Steve Konopelky. In total the Property comprises 15 mineral claim blocks (6616 ha) and 5 District Lots (76.68 ha) with mineral rights attached.

The Property hosts the historical Ptarmigan and Iron Cap Mines which were first exploited in the early 1900s until as late as the early 1960s for high grade silver-gold-lead-zinc-copper mineralization. Most of the historical production was focused on exploiting narrow high-grade silver veins (with lesser Au-Pb-Zn-Cu) with most of the ore being hand sorted. Additionally, the mine contains a massive pyrite replacement zone which contains significant silver-gold mineralization and this style of mineralization has not been adequately explored. Little recorded exploration work has been completed on the Ptarmigan Property other than the underground development and some prospecting.

1.2 Terms of Reference and Units

The Metric System is the primary system of measure and length used in this Report and is generally expressed in kilometres (km), metres (m) and centimetres (cm); volume is expressed as cubic metres (m³), mass expressed as metric tonnes (t), area as hectares (ha), and gold and silver concentrations as grams per tonne (g/t). Conversions from the Metric System to the Imperial System are provided below and quoted where practical. Many of the geologic publications and more recent documents now use the Metric System but older documents almost exclusively refer to the Imperial System. Metals and minerals

acronyms in this report conform to mineral industry accepted usage and the reader is directed to www.maden.hacettepe.edu.tr/dmmrt/index.html for a glossary.

Conversion factors utilized in this report include:

- 1 troy ounce/ton = 34.285714 grams/tonne
- 1 gram/tonne = 0.029167 troy ounces/ton
- 1 troy ounce = 31.103477 grams
- 1 gram = 0.032151 troy ounces

The term gram/tonne or g/t is expressed as “gram per tonne” where 1 gram/tonne = 1 ppm (part per million) = 1000 ppb (part per billion). The mineral industry accepted terms Au g/t and g/t Au are substituted for “grams gold per metric tonne” or “g Au/t”. Other abbreviations include ppb = parts per billion; ppm = parts per million; oz/t = troy ounce per short ton; Moz = million ounces; Mt = million tonne; t = tonne (1000 kilograms); SG = specific gravity; lb/t = pound/ton; and, st = short ton (2000 pounds).

Dollars are expressed in Canadian currency (CAD\$) unless otherwise noted. Zinc (Zn), copper (Cu) and lead (Pb) are reported in US\$ per pound (US\$/lb) or US\$ per metric tonne (US\$/t). Gold (Au) and silver (Ag) are stated in US\$ per troy ounce (US\$/oz). Where quoted, Universal Transverse Mercator (UTM) coordinates are provided in the datum of Canada, NAD83, Zone 11U North.

2.0 PROPERTY DESCRIPTION AND LOCATION

2.1 Location

The Ptarmigan Property is in south western British Columbia in the Kootenay Region of the Purcell Mountains; the Property lies about 35 km west of Radium Hot Springs, British Columbia and 210 km west of Calgary, Alberta, Canada. It is in the Golden Mining Division, and the historical mine portals are located approximately 50° 29' 46" N latitude and 116° 24' 25" W longitude (Figure 2-1) and are within the 082K/08 NTS Map Sheet.

2.2 Description and Ownership

The Ptarmigan Property comprises 15 mineral claims covering ~6616 hectares and 5 District Lots with attributed mineral rights (Table 2–1; Figure 2–2). Twenty of the mineral claims are held by Rupestris

President, Steve Konopelky, and 100% interested has been purchased by Rupestris. The remaining claim and 5 District Lots are held by Eugen Seel and Rupestris Mines Inc. has acquired 100% of the mineral rights to Mr. Eugen Seel's claims through a purchase agreement.

Table 2-1. Ptarmigan Property summary description of mineral tenures and district lots.

Tenure Number	Claim Name	Mining Division	Area (ha)	Description	Good To Date	Owner	Ownership
583845		Golden	513.601	Mineral Claim	2014/may/09	Steve Konopelky	100%
583849		Golden	513.708	Mineral Claim	2014/may/09	Steve Konopelky	100%
583853		Golden	513.502	Mineral Claim	2014/may/09	Steve Konopelky	100%
583855		Golden	513.095	Mineral Claim	2014/may/09	Steve Konopelky	100%
583856		Golden	308.026	Mineral Claim	2014/may/09	Steve Konopelky	100%
583857		Golden	514.069	Mineral Claim	2014/may/09	Steve Konopelky	100%
583858		Golden	493.604	Mineral Claim	2014/may/09	Steve Konopelky	100%
583860		Golden	493.572	Mineral Claim	2014/may/09	Steve Konopelky	100%
583862		Golden	513.352	Mineral Claim	2014/may/09	Steve Konopelky	100%
583863		Golden	514.239	Mineral Claim	2014/may/09	Steve Konopelky	100%
598556		Golden	513.450	Mineral Claim	2014/may/09	Steve Konopelky	100%
598575		Golden	513.293	Mineral Claim	2014/may/09	Steve Konopelky	100%
598576		Golden	225.803	Mineral Claim	2014/may/09	Steve Konopelky	100%
599243		Golden	349.416	Mineral Claim	2014/may/09	Steve Konopelky	100%
551570	RED LINE 3	Golden	123.292	Mineral Claim	2014/may/09	Eugen Seel	100%
DL5345	Red Line No. 1	Golden		District Lot (MC)	n/a	Eugen Seel	100%
DL5346	Red Line No.2	Golden		District Lot (MC)	n/a	Eugen Seel	100%
DL5347	Iron Cap	Golden		District Lot (MC)	n/a	Eugen Seel	100%
DL5348	Frac.	Golden		District Lot (MC)	n/a	Eugen Seel	100%
DL5349	Iron Crown Frac	Golden		District Lot (MC)	n/a	Eugen Seel	100%
			6616.022				

**Total area of all the District Lots*



Legend:

- Ptarmigan Mine Location
- BC Cities
- Major BC Roads
- Provincial & State Borders
- Major BC Lakes



**Caracle Creek
International Consulting Inc.**
Geological Consultants - Project Management

Author: gcn

Office: Vancouver

Date:

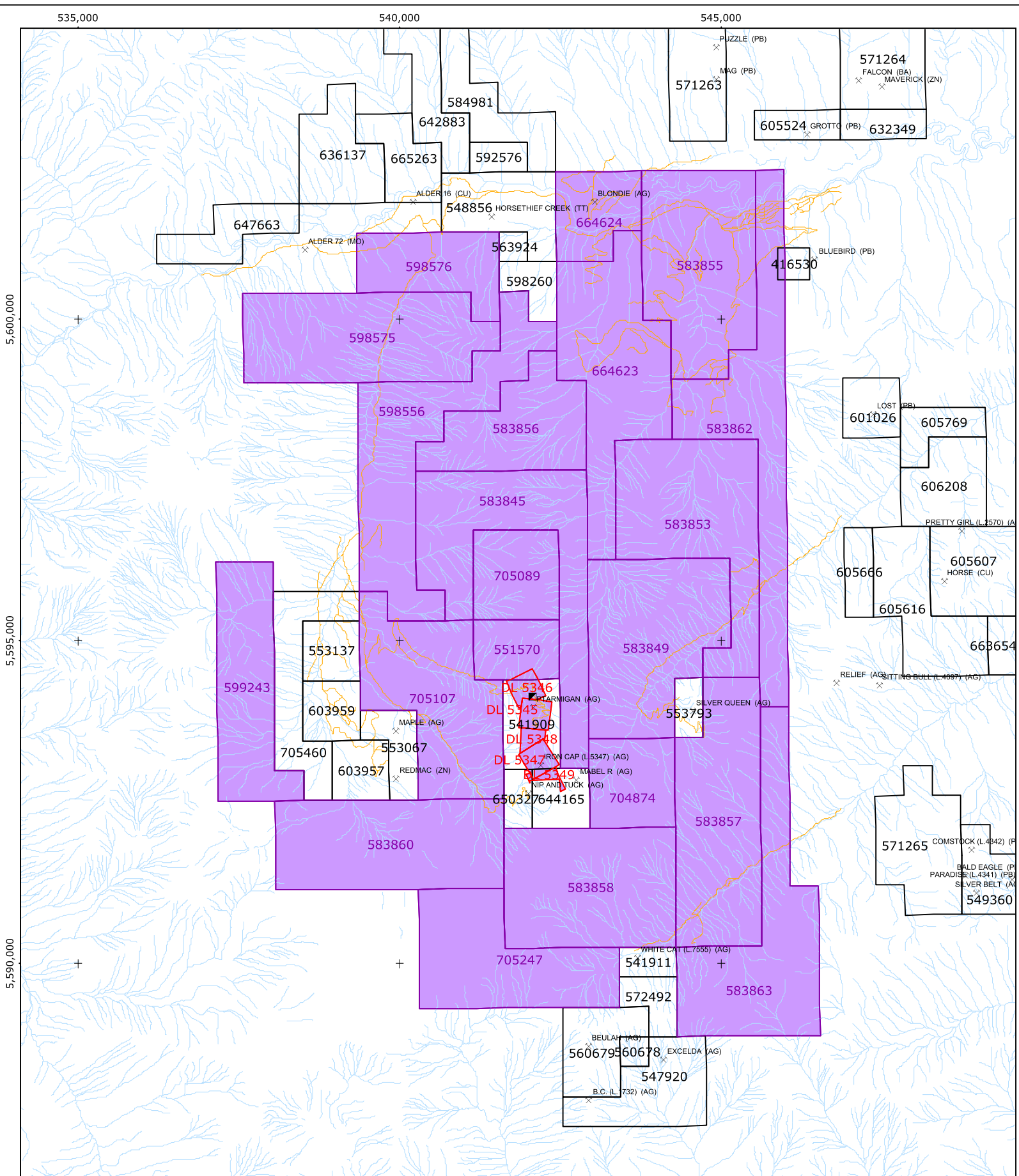
Scale:
1:7,500,000

Rupestris Mines Inc.

**Ptarmigan Location Map,
Radium Hot Springs, BC.**

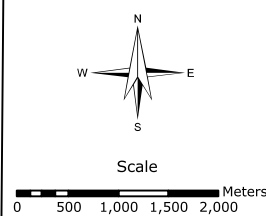
Projection: NAD83, Zone 11 North

Figure: **2-1**



Legend:

-  Ptarmigan Mine Location
-  Regional Mineral Showings
-  Access Roads
-  Drainage
-  Rupestris Crown Grants
-  Rupestris Claims
-  Surrounding Claims



 Rupestris Mines Inc.		
Mineral Titles Map, Ptarmigan Project, British Columbia, Canada.		
Date: 22/03/10	Scale: 1:75,000	Figure: 2-2
Projection: UTM, Nad83, Zone 11N Office/Author: Vancouver/gcn		
 <u>Caracle Creek International Consulting Inc.</u> Geological & Geophysical Consultants		

3.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

3.1 Access

The Ptarmigan Property is serviced by the Horsethief Creek Forest Service Road which emanates from Radium, BC approximately 35 km east of the Property. Several branch logging roads exist which afford access to most areas of the Property (Figure 2-2). In addition to the logging roads, several historical mining trails to access the various workings in the area have been established. One such road runs to the Ptarmigan Mine along Redline Creek, a tributary of MacDonald Creek that flows north into Horsethief Creek. This road has been refurbished and is capable of handling the transport of heavy machinery during the summer months.

3.2 Climate and Vegetation

The climate in the Radium Hot Springs-Invermere area, which is located in the Rocky Mountain Trench/upper Columbia River Valley, is considered to be temperate and semi-arid as it lies within the rain shadow of the Purcell Mountains. The region is characterized by warm dry summers and cold winters. Temperatures in the Rocky Mountain Trench typically average 20° C during the summer and -10° C during winter months, with snowfall between 170 and 200 cm annually.

The Ptarmigan Property, being within the Purcell Mountains, receives considerably more snow than the Radium Hot Springs area, with an average of 479 cm per year falling at the local ski resort Panorama Mountain Village, located ~14 km southeast of the Property and at a similar elevation. Since the elevation on the Property varies substantially temperatures from one area to another can vary more than 10°C from valley to ridge tops. Generally, the Ptarmigan Mine area is free of snow from late June to September.

Forests in the valleys are commonly comprised of western hemlock, western red cedar, western white pine, Douglas-fir, western larch, grand fir, Engelmann spruce, hybrid white spruce, and subalpine fir. Typical upper elevation flora consists primarily of mixtures of Engelmann spruce, subalpine fir, lodge pole pine, white bark pine, balsam fir, larch, and finally alpine flora at the highest elevations.

3.3 Physiography

The Property lies within the northern Purcell Mountains approximately 30 km west of the Rocky Mountain Trench. Elevations in the Rocky Mountain Trench, the lowest points in the area, are

approximately 750 m above mean sea level (“AMSL”). Most of the Property is south of the Horsethief Creek valley and is rugged and mountainous. Relief on the Property is 2,300 m, ranging from 1,100 m AMSL in the Horsethief Creek Valley at the extreme north end of the claims, to about 3,400 m AMSL at the south end of the claims at the peak of Mount Delphine. Most of the peaks and ridge tops on the Property occur ~3000 m AMSL. The topography is typical of glaciated alpine terrains: U-shaped flat bottomed valleys grading into steep and locally precipitous slopes along the upper walls of cirques and arêtes. Several ice sheets still remain at upper elevations, and tree line typically occurs around 200 m AMSL.

Outcrop is abundant along ridge and mountain tops, but valley bottoms and lower slopes are typically covered by talus, moraine and below tree line a thick cover of partially decayed forest litter. Most outcrops on slopes and valley bottoms occur where creeks have incised through the rock debris or along logging road cuts. Because of this, most historical showings occur above tree line and near ridge/mountain tops where outcrop is plentiful.

3.4 Infrastructure and Local Resources

The Property is located 35 km west of the town of Radium Hot Springs (population 1,000) with the nearest large population centres being: Invermere (population ~3,000), about 40 km east; Cranbrook (population ~20,000), about 130 km southwest; and Calgary, Alberta (population ~1,000,000), about 250 km east (Figure 2-1). Basic services such as restaurants, accommodation, groceries and some supplies can be purchased in Radium Hot Springs and Invermere, but for more substantial services, Cranbrook is the closest supply point. Services in Cranbrook include hospital, medical and dental facilities, pharmacy, restaurants, grocery stores, hotels, service stations and major automobile dealerships, small airports, banks, building supply centers and other small businesses. Cranbrook serviced Teck-Cominco’s Sullivan Mine.

The nearest processing facility is approximately 180 km south-southwest of the Ptarmigan Property, in Trail, BC. The Trail Smelter, now owned by Teck-Cominco, has operated since 1895 and treated lead-zinc-silver ore from the Sullivan Mine and currently from the Red Dog Mine in Alaska. Many of the mineral deposits in the Kootenay Mountains have been made economical by the close proximity of the Trail Smelter, including historical production from the Ptarmigan Mine and other small mines in the immediate area.

4.0 PROPERTY HISTORY

Historically the Ptarmigan claims are recorded as the McDonald or Red Line group and cover two areas of mineralization: the Ptarmigan and Iron Cap showings. This area was first worked in the late 1800's with subsequent periods of exploration in the early 1920s and the late 1950s. Between 1900 and 1959, total production on the Ptarmigan Mine consisted of 657 tonnes of ore mined, producing 2,769,008 g of silver, 3546 g of gold, 3812 kg of copper, 3519 kg of lead, and 848 kg of zinc (BC MINFILE Report 082KSE030). According to BC Government data the Iron Cap area produced a total of 32 tonnes of ore, with 27,184 g of silver, and 8774 kg of lead recovered (BC MINFILE Report 082KSE036). However, this only takes into account production from 1920 which is not the only year ore was produced from this mine. Table 6-1 presents a summary of the historical work conducted on the Ptarmigan Property.

4.1 Ptarmigan and Iron Cap Mine History

4.1.1 *MacDonald Mines – 1899-1901*

During the turn of the century, a great deal of infrastructure was put in place at the Ptarmigan Mine site. At the cost of \$3000, a trail was established from Law Creek up McDonald Creek, with horse stables and a camp constructed along this route. It was reported that ore was found outcropping at the site up to 0.5 miles long. Through an initial tunnel shaft, the ore body was found to be 16 feet wide, returning results of moderate silver and up to 3% copper (EMPR AR 1899). By 1901, development on the Ptarmigan claims consisted of 228 feet in the No. 1 Tunnel with an upraise of 38 feet, 80 feet in the No. 2 Tunnel, and 225 feet in the No. 3 Tunnel, for a total of 581 feet (EMPR AR 1901). It was reported that a lower tunnel at the silver-lead Iron Cap showing revealed solid galena 6 feet wide (EMPR AR 1900). In 1901, the government built 20 miles of wagon road along Horsethief Creek; workers operating on the mine at this time further extended the road 8 miles to connect to the mine itself (EMPR AR 1901). This facilitated further tunnelling: at the Iron Cap locale, 528 feet were driven in the No. 1 Tunnel, 197 feet were driven in the No. 2 Tunnel, and 208 feet were driven in the No. 3 Tunnel with 62 feet of winze, 12 feet were driven into the new No. 4 Tunnel with 12 feet of open cut, and 126 feet were driven in the No. 5 Tunnel with 21 feet of winze; the total length of tunnels at this time was 1166 feet (EMPR AR 1901). Some work planned for this season was not completed due to finance and bonding issues, and due to fluctuating silver prices.

4.1.1 *Paulding Farnham - 1902*

Paulding Farnham took over control of the Ptarmigan and Nip and Tuck claims, in 1902. During this year, the low price of lead and silver hampered raising capital for mining ventures.

Table 4-1. Summary of work history on the Ptarmigan and Iron Cap Mines.

Date	Company/Grantee	Description	Source
1899-1901	MacDonald Mines	Iron Cap: 528' on No. 1 Tunnel; 197' on No. 2 Tunnel; 208' and 62' winze on No. 3 Tunnel; 12' and 12' of open cut on No.4 Tunnel; 126' and 21' winze on No.5 Tunnel. Total development is 1166'. Red Line claim: 228' with 38' upraise on No.1 Tunnel; 80' on No.2 Tunnel; 225' on No. 3 Tunnel. Total is 581'.	AR 1899, p.667, AR 1900, p. 806, AR 1901, p.1902
1902	Paulding Farnham	Additional 365' tunnel, 50' winze, 70' long drifts from 50' level of previous year. 4-drill compressor plant installed 8000' from mine; Saw mill erected with capacity of 8000' per day; Aerial tram under construction; Three car-loads shipped; Work discontinued due to low metal prices	AR 1902, p.1903
1903-1905	Ptarmigan Mines of the Selkirks	Bleichert aerial tramway with 200 tonnes capacity under construction Total length of workings in the mine is 3030': 2645' in drifts, 150' in winzes, 235' in raises. On the smallest vein, a tunnel has been driven for 300-400'; Closed down in 1905 pending railroad construction.	AR 1903, p. 97-99, 104; AR 1905, p.146
1908	Herbert Carlyle Hammond	Awaiting railroad, no development	AR 1908, p249
1909		Practically dormant since 1903 and not further developed. Little progress due to lack of railway construction. CPR plans to build the Kootenay Central Railway.	AR 1909, p99, 100
1917	Sarah James Farnham	Ownership change	AR 1917, p452
1917	Ada Florence Scovil	Ownership change	AR 1917, p452
1919-1923	E. Watson	More surface prospecting. New rich surface showings discovered due to the retreat of the glacier. 50 tons of rich ore recovered. 150 tons of previously mined dump-ore shipped to the smelter in Trail.	AR 1919, p113, 146; AR 1920, p113-114, 139; AR 1923, p199
1955-1957	Heinz K.F. Seel	Re-opened access to Ptarmigan mine portal and mine infrastructure refurbished; removal of ice from tunnels; 6 shipments of 21 tons crude ore shipped to Trail smelter.	AR 1955,p71; AR 1956, p111; AR 1957,p45,65
1958-1960	Selkirk Ptarmigan Mines Ltd.	Continued stoping on No.3 Tunnel; and 34' of drifting was done on new vein. 181 tons of crude ore shipped by truck to Trail in 1958; 43 tons shipped in 1959. No production in 1960	AR 1958,p45,53
1963	Belle Tahsis Mines Ltd.	Work included geological and geophysical survey. 10 DDH's totalling 650' from surface and underground.	AR 1963,p86
1964	Union Carbide Exploration Ltd.	Geological mapping; 13 drill holes totalling 1250' in the lower level of the mine.	AR1964,p135
1965	International Kenville Gold Mines Ltd.	No work completed	
1971	Voyageur Petroleum Ltd.	Geological surface mapping 1"-100' scale from Iron Cap to Ptarmigan and UG mapping 1" to 20'	GEM 1971-425

Despite this, an additional 365 feet of tunnel, 50 feet of winze, and 70 feet of drifts were excavated from the Ptarmigan Mine site. The wagon road was extended 1 mile to link up with a newly installed 4-drill compressor plant. A sawmill was also erected with a capacity of 8000 feet per day. Three car loads of ore were shipped this year; the ore is reported as a high-grade grey copper associated with iron pyrites, and sandwiched by serpentine and quartzite formations (EMPR AR 1902).

4.1.2 Ptarmigan Mines of the Selkirks Company Limited – 1903-1905

A new company was formed to take over mining operations at Ptarmigan, known as the Ptarmigan Mines of the Selkirks Co. Ltd., a syndicate of American investors under the local management of Mr. Thomas

Starbird of Wilmer, BC. This company oversaw the construction of a Bleichert aerial tramway with a capacity of 200 tonnes leading to the mine tunnel. An air compressor and boiler were erected to supply the 3 drills on site. All housing infrastructure has been established by this time, including a blacksmith shop, two bunkhouses, general offices, compressor building, sawmill shed, assay office, two tram terminals, and stables. The bunkhouse had a capacity of 75 men. The glacier in the valley inhibited upslope surface prospecting, while rich float was found under the toe of the glacier. During this time, additional veins were found cutting in to the hillside, dipping near vertical. On the smallest vein, a tunnel was driven 300 to 400 feet, following a marked quartz fissure vein; the pay streak was reported as a few inches wide, containing ore with iron pyrite and tetrahedrite, and assaying high in silver, with some gold. This pay streak was sufficiently rich to warrant a further 125 feet of tunnelling. This showed the vein to be well defined and continuous. Selected samples from the vein yielded 600 oz of silver and 0.75 oz of gold. Small shipments of ore made to the smelter in Trail yielded values of 4.1% copper, 237 oz of silver, and 0.41 oz/t of gold. High-grade ore sent to a lab in New York yielded concentrations of 11.09% copper, trace zinc, 22.67% iron, 31.38% sulphur, 10.78% antimony, 0.15% bismuth, 16.32% silica, 0.73 oz/t of gold, and 416.47 oz/t of silver. Under Ptarmigan Mines of the Selkirks Co. Ltd., the total development of the Ptarmigan Mines was 3030 feet: 2645 feet in drifts, 150 feet in winzes, and 235 feet in raises. The Iron Cap showing was abandoned for a few years as the ore was comprised of galena, and not rich enough to be mined due to low prices in 1903. In 1905, Ptarmigan Mines was closed down pending railway construction (EMPR AR 1903, EMPR AR 1905).

4.1.3 Herbert Carlyle Hammond – 1908

At this time, there was little mine development as there was no railway construction in the area (EMPR AR 1909).

4.1.4 E. Watson – 1919-1923

E. Watson leased the Ptarmigan Mines, likely inspired by the rising price of silver at this time. This saw a resurgence of ore being excavated from the mine site, in addition to further surface prospecting. New rich surface showings were revealed as a result of the retreat of the local glacier valley. Fifty tonnes of new, rich ore were recovered. A further 150 tonnes of previously mined dump-ore was shipped to the smelter in Trail; this ore was now profitable due to the inflated price of silver, and recovered 40 oz of silver, \$15 in gold, but no lead. Later in the year, a further 300 tonnes of dump-ore were shipped to the smelter in Trail, with additional rich-ore being subsequently recovered. The dump-ore averaged 25 oz of silver per tonne. A grab sample from the dump-ore assayed 0.02 oz of gold and 15.3 oz of silver (EMPR AR 1919; EMPR AR 1920). This claim then saw a lengthy hiatus, with only minor work conducted in 1923, cleaning ice out of open-cuts (EMPR AR 1923; EMPR PF 82KSE). A chip sample taken from a quartz

vein in the north trending fault zone at the Iron Cap showing assayed 800.0 g/t silver, 17.3% lead, and 0.60% zinc. Thirty-two tonnes of ore purportedly mined from the upper adit of the Iron Cap showing in 1920 yielded 27,184 grams of silver and 8774 kg of lead (BC MINFILE Report 082KSE036).

4.1.5 Heinz K.F. Seel – 1955-1957

After a long period of dormancy, the Ptarmigan claims were optioned by H.K.F. Seel. Construction was initiated to reopen the wagon road connecting the mine to provide access for four-wheel-drive vehicles. The portal of No. 3 Tunnel was re-timbered, an air compressor was installed, in addition to the construction of a snow shed, machine shop, and bunkhouse. In 1957 a crew was commanded to remove the ice from the old workings and to re-establish ventilation in the shafts. A small cut and fill stope was developed on the No.3 Tunnel following a narrow quartz vein with mineralised pyrite and tetrahedrite. Six shipments of 21 tons of crude ore were sent to the Trail smelter, yielding 5 oz of gold, 6058 oz of silver, 141 lbs of lead, and 91 lbs of zinc. Assays yielded 15-230 oz per tonne (EMPR AR 1955; EMPR AR 1956; EMPR AR 1957; EMPR PF 82KSE).

4.1.6 Selkirk Ptarmigan Mines Limited – 1958-1960

The Selkirk Ptarmigan Mines Ltd. company, with H.K.F. Seel as president and manager, was formed to continue operations at the Ptarmigan mine site, now under complete ownership by the company. Activities were focused on further developing the No. 3 Tunnel, and continued removal of ice. A 34 foot drift followed a new lead of high-grade ore. A shipment of 181 tonnes of crude ore shipped by truck to Trail yielded 60 oz of gold, 41,871 oz of silver, 1010 lbs of lead, and 1580 lbs of zinc. Silver assays ranged from 210-400 oz per tonne. A further 2.5 miles of road were relocated to improve the grade, and a building for storage and water-heating was erected (EMPR AR 1958). In 1959, a further 43 tons of crude ore shipped to Trail yielded 4 oz of gold, 4271 oz of silver, 428 lbs of lead, and 199 lbs of zinc (EMPR AR 1959; EMPR PF 82KSE). In 1960, a small crew of men worked during the summer taking samples throughout the mine workings, but no further development was done, and the site remained dormant for the next 3 years (EMPR AR 1960).

4.1.7 Belle Tahsis Mines Limited – 1963

The Ptarmigan mine site was optioned in 1963 by Belle Tahsis Mines Ltd., which subsequently obtained title to the property. A moderate amount of work was conducted that year including a geological and geophysical survey. A crew of 6 men was employed drilling 650 feet of rock in 10 diamond drill holes (EMPR AR 1963; EMPR PF 82KSE).

4.1.8 Union Carbide Exploration Limited – 1964

The Ptarmigan claims were explored by Union Carbide Exploration Ltd., under an agreement with Belle Tahsis Mines Ltd. During this season, exploration consisted of minor geological mapping, and drilling of 13 diamond drill holes totalling 1250 feet in the lower level of the mine (EMPR AR 1964; EMPR PF 82KSE).

4.1.9 International Kenville Gold Mines Limited – 1965

A contract was formed with International Kenville Gold Mines Ltd. to conduct further work on the property (EMPR PF 82KSE).

4.1.10 Voyager Petroleum Ltd. – 1971

Geological mapping was completed by G.V. Lloyd Exploration on behalf of Voyager Petroleum which covered an area from the Iron Cap workings to the Ptarmigan workings and underground mapping. Surface mapping was at a scale of 1 in. to 100 ft and the underground mapping at 1 in. to 20 ft. No underground working was recorded from this time (EMPR GEM 1971-425).

4.2 Nip and Tuck

The Nip and Tuck showing, south of the main workings of the historically known Ptarmigan Mine, was originally recorded as the Tecumseh Group of claims and shares a similar work history as the Ptarmigan Mine as they were explored together in the early years.

This area was also discovered and worked in the late 1800's, and later explored in the early 1920s, and then in 1982. In 1995, the production history of the Nip and Tuck showing was reported as 161 t of ore mined, yielding 460,603 grams of silver, 31 grams of gold, and 82,315 kg of lead (BC MINFILE Report 082KSE037). All of these showings now lie outside of the Ptarmigan claim boundaries by approximately 200-300 m.

4.2.1 1899-1901

Little work record occurs for this period of time. During work on the Nip and Tuck showing, it was reported that 2 feet of clean galena were observed on a ledge 6 feet wide (EMPR AR 1900).

4.2.2 Paulding Farnham – 1902-1905

Work on the Nip and Tuck showing consisted of further development of 50 feet of tunnel and several open cuts. These excavations revealed 20 inches of solid ore. Twenty-nine tonnes of trial ore was shipped to Trail in 1904, with a gross value of \$2425.96. By 1905, the ledge was reported as 7 feet wide, and

carrying a pay-streak 18 inches wide. Total development at Nip and Tuck at this time was: a lead of 95 feet with a depth of 75 feet on No. 1 Tunnel, and showing 18 inches of clean ore; 10 feet of tunnel showing 18 inches of ore in No. 2 Tunnel; and 30 feet of tunnel showing 18 inches of ore from No. 3 Tunnel. Four carloads of ore were shipped from No. 1 Tunnel. A total of 53,675 pounds of ore had been sent to the Trail smelter (EMPR AR 1902; EMPR AR 1903; EMPR AR 1904, EMPR AR 1905).

4.2.3 W. Haupt and Tom Brown – 1906-1915

In 1906, under a new owner, W. Haupt, little work was done on the Nip and Tuck showing, with only a few shipments made to the Trail smelter. In 1908, most work had halted as the metal market was poor, and most developments were on hiatus, awaiting improved transportation facilities (EMPR AR 1906; EMPR AR 1908). In 1915, Tom Brown assumed joint control of the Nip and Tuck venture, which was languishing due to a lack of capital attributed to war conditions and a lack of labour, though construction of the railway was completed by this time. A trial shipment of 10 tonnes was sent to the Trail smelter; despite expensive shipping charges due to inclement weather, the net return was \$60 per tonne. Most local workings were solid with ice as a result of the working hiatus. By this time, the lowest tunnel was 55 feet long, with another tunnel 30 feet above and 110 feet long; 20 feet above this is another tunnel 20 feet long. The main vein was now obscured at surface as most of the workings were underhand stoped, and had now caved in. The vein, where visible, was reported as up to 2 feet wide, with a fair sized paystream of galena, lead carbonates, zinc-blende, and grey-copper. Two samples assayed yielded 0.06 oz of gold, 116.2 oz of silver, 60.6% lead, 1.8% copper, and 0.07 oz of gold, 148.4 oz of silver, and 36.8% lead, respectively (EMPR AR 1915).

4.2.4 William McMillan and V. Sontag – 1919-1920

In 1919, the price of silver was driven upwards, sparking redevelopment of old prospects. William D. McMillan of Athalmer became the new grantee of the Nip and Tuck showing, hiring a small crew of men. This team uncovered new, rich surface showings, and recovered a car-load of high-grade ore. The ore, however, was not shipped as the road was in a state of disrepair (EMPR AR 1919). In 1920, V. Sontag assumed joint ownership of the property. At this time, lack of labour due to strikes was harbouring exploration. Despite this, a mine cabin with accommodation for 4 men was built, with work continuing on the claim throughout the summer. Work performed this year included driving an adit on the lead; a sample taken from here across 12 inches yielded 0.02 oz of gold, 25.8 oz of silver, 8.8% lead, and 0.7% zinc. A grab sample from sacks in the upper tunnel yielded 0.02 oz of gold, 74.1 oz of silver, 44.7% lead, and 1% zinc. Eight tons of ore were hauled to Wilmer from an 80 foot tunnel. The ore grade ran to \$150 per tonne (EMPR AR 1920).

4.2.5 Interprovincial Mines Development Company – 1921-1922

In 1921, W.D. McMillan and V. Sontag abandoned the Nip and Tuck property; it was subsequently acquired by the Interprovincial Mines Development Company. Work in 1922 now focused on further surface prospecting and extracting ore from an inaccessible showing high in the peak, above the mine workings. From this locale, a car load was sacked and moved by tram to the road below. Grab samples from this sack assayed 0.01 oz of gold, 63.8 oz of silver, 35.1% lead, and 0.8% zinc. The ore was reported as consisting primarily of galena in a gangue of lime and quartz; associated minerals include iron pyrite and some zinc-blende. Carbonate ore was also discovered this season in slide-rock below the old tunnels, indicating either a downward continuation of the main worked vein, or the presence of a parallel vein. A sample of this ore taken across a 2 foot digging assayed at 0.04 oz of gold, 23.1 oz of silver, 21.3% lead, and 0.8% zinc. Other showings were also discovered above and beyond the limit of the upper tunnel, indicating further continuity of the vein; unfortunately they could not be examined in further detail due to snow cover. In the upper tunnel, the vein had a pay streak 10 inches wide, with oxidized ore in the roof; a sample from here assayed 0.03 oz of gold, 49.1 oz of silver, 20.7% lead, and 1.1% zinc (EMPR AR 1922). By 1923, the total production on the Nip and Tuck No. 1 vein, from 161 tonnes mined, was 460,603 grams of silver, 82,315 kg of lead, and 31 grams of gold (BC MINFILE Report 082KSE037).

4.2.6 Trethwood Mining Company Ltd. – 1923-1928

Subsequent to 1923, the Nip and Tuck property was dormant until 1927, when work in the area conducted by the Geological Survey of Canada sparked interest in further ventures in the area. At this time, the claims were acquired by the Trethwood Mining Co. Ltd. Their work consisted of driving a 600 foot cross cut into the vein system at depth. A compressor and oil-engine were installed, in addition to a new camp being built. In 1928 only minor work was completed on the claim, and the showing was left to languish until 1982 (EMPR AR 1927; EMPR AR 1928).

4.2.7 Golden Gate Explorations Ltd. – 1982

In 1982, the Nip and Tuck prospect was newly explored, with Golden Gate Exploration Ltd. holding 75% ownership, and Alhambra Mining Ltd. taking 25% ownership. Over a period of 5 days, 6 rock geochemical samples and 33 assay samples were taken. Old workings were mapped, and the cross cut adit was surveyed. Of these samples, the highest values obtained were: 14.80% copper from sample DJW, taken from the fault zone; 26.50% lead, from high-grade sample 17B taken from an adit; 1.50% zinc from sample DJW; 330.10 oz/ton silver from sample DJW; 0.370 oz/ton gold from sample DJW; and 8.40% antimony, taken from sample 15, recovered from the east vein (Price, 1982).

4.2.8 2008 Rupestris Mines

Rupestris Mines Inc. began working on the Ptarmigan Property in the summer of 2008. Work consisted largely of refurbishing the historical access trails and cleaning up and securing the Ptarmigan Mine workings to limit access and mitigate liability issues associated with open mine workings and dilapidated structures. Rupestris also conducted a site visit, water sampling and contracted Canadian Mining Geophysics Ltd. who completed an airborne magnetic gradiometer and VLF-EM (very low frequency electro-magnetic) geophysical survey over the entire Ptarmigan Property in September 2008. This airborne geophysical survey was designed to characterize the known structures and mineralization in the Ptarmigan Mine area and allow interpretation of the geophysical response for the entire Property in order to identify additional structures and exploration targets. The Company also collected five water samples from watercourses which drain the Ptarmigan Mine and had them analyzed for water quality, by AGAT laboratories, Calgary, Alberta.

5.0 GEOLOGICAL SETTING

5.1 Regional Geology

The Ptarmigan Mine lies within the Purcell Mountains, which constitute a major north-plunging structure referred to as the Purcell anticlinorium. This mountain range is a parautochthonous terrane underlain by strata of Helikian to middle Devonian age, belonging to four discrete epicratonic sequences: (1) the Mesoproterozoic Belt-Purcell Supergroup, (2) the Neoproterozoic Windermere Supergroup, and the (3) lower and (4) upper Palaeozoic sequences of the Cordilleran continental margin. Minor basaltic rocks of the Nicol Creek Formation, dated at 1075 Ma, and various sills are hosted in the Belt-Purcell sedimentary sequences. From the middle Jurassic to late Cretaceous, these terranes were deformed into a north-plunging fold and thrust anticline, above a crustal scale ramp (Pope, 1990). The Ptarmigan Mine is hosted in strata of the Belt-Purcell Supergroup, in close proximity to a fault-bounded contact with rocks of the Windermere Supergroup (Lydon, 2007; Paiement et al., 2007) (Figure 5-1).

5.1.1 Stratigraphy

Rocks of the Belt-Purcell Supergroup, with a surface expression of over 200,000 km², were deposited in an intracontinental rift setting off the continental margin of Laurentia. The Belt-Purcell Supergroup, with an estimated thickness of 16 km, can be divided into three main facies. The first facies represents the basal sequence of a rift-fill environment. This predominantly includes distal to proximal turbidite rocks of the Aldridge and Pritchard Formations, and deep-water calcareous argillite and turbidite rock which

grade upwards into mid-shelf carbonates and siliciclastic rocks, such as the Newland Formation. The second facies consists of shallow-water platformal and fan-delta rocks, deposited at the margins of the rift concomitant with deposition of the distal turbidite sequences. Strata of this facies includes fluviatile and deltaic cross-bedded arenite of the Fort Steele and Neihart Formations, coarse-grained debris flow deposits initiating off fault scarps of the Lahood Formation, deep-water argillite debris flows of the Greyson Formation, and the shallow-water platformal carbonates of the Waterton and Altyn Formations. The third facies is represented by shallow lagoonal, alluvial, and playa deposits from rift-cover and rift-sag episodes. These rocks form the upper part of the Belt-Purcell Supergroup, and include varicoloured argillite, siltstone, and quartzite units of the Creston Formation, the transgressive, carbonate-rich beds of the Kitchener Formation, and fine-grained clastic rocks of the Sheppard, Van Creek, Gateway, Phillips, Roosville, Dutch Creek, and Mount Nelson Formations deposited in a passive-margin environment (Lydon, 2007; Paiment *et al.*, 2007).

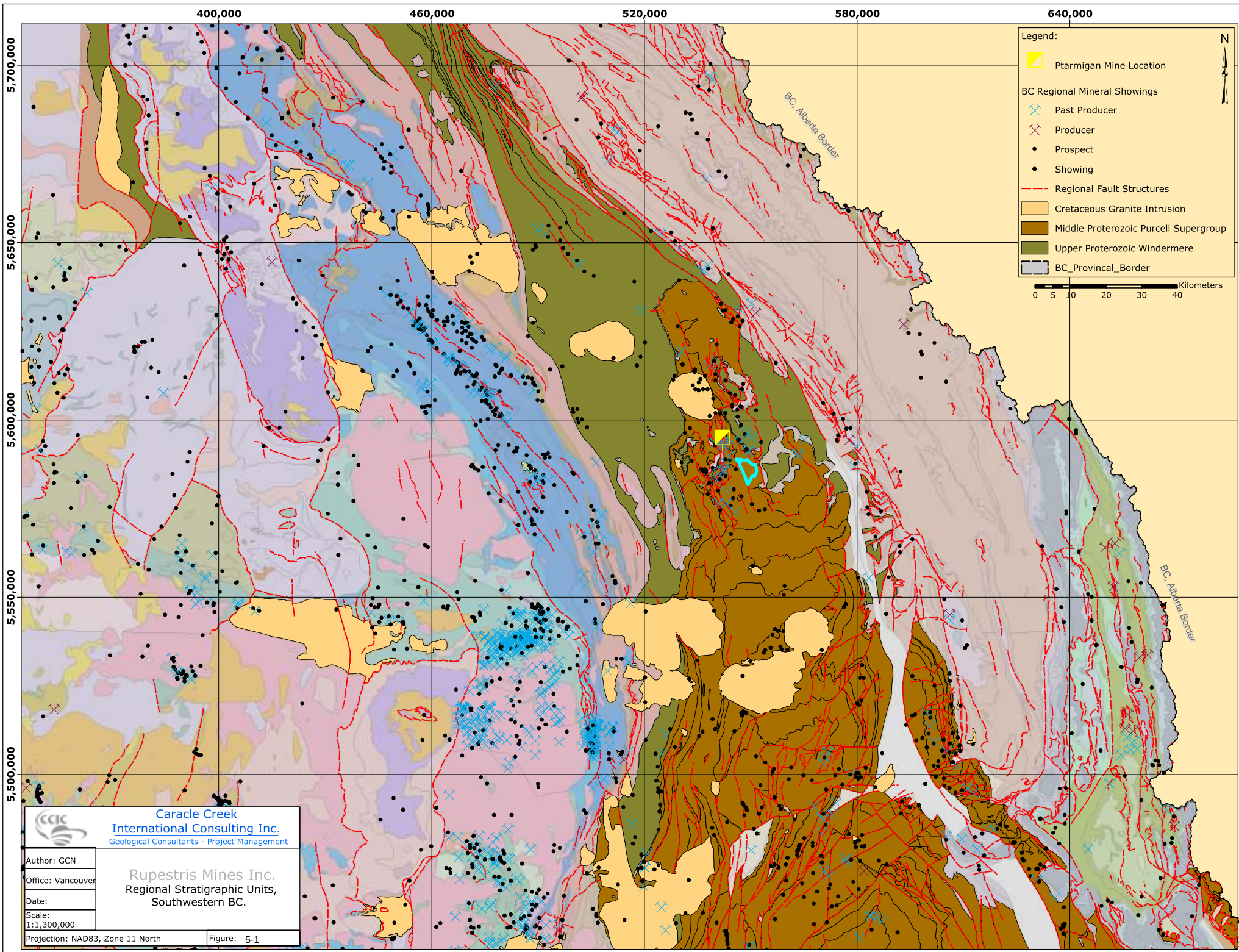
Deposition of the Fort Steele, Aldridge, Creston, Kitchener, and Van Creek Formations occurred during the first Belt-Purcell extensional event in the Middle Proterozoic. Basaltic rocks of the Nicol Creek Formation erupted during a second extensional event, which was superseded by block faulting and deposition of the Sheppard, Gateway, Philips, Dutch Creek and Mount Nelson Formations. At the end of the Middle Proterozoic, the East Kootenay Orogen marked the end of deposition of the Belt-Purcell Supergroup (Lydon, 2007; Paiment *et al.*, 2007).

5.1.2 Structure

Belt-Purcell Supergroup

The Belt-Purcell Supergroup rocks have been affected by at least three periods of deformation and metamorphism, with some additional local Palaeozoic faulting in the region. The three episodes are the East Kootenay Orogeny, 1350-1300 Ma, the Goat River Orogeny, 900-800 Ma, and metamorphism, deformation and plutonism spanning the Jurassic to Cretaceous, 160-60 Ma (Lydon, 2007).

The East Kootenay Orogeny is marked by burial diagenesis and subsequent low-grade greenschist metamorphism of the thick sedimentary pile, as evidenced by the increase in regional metamorphic grade with stratigraphic depth in the Purcell Anticlinorium. This is accompanied by a foliation in the rocks which is generally axial planar to large, regional folds; as with metamorphic grade, the intensity of this foliation also increases with stratigraphic depth. The tectonic regime during the Mesoproterozoic was dominated by both rift-parallel, extensional faults and transfer faults, oriented transverse to the rift (Lydon, 2007).



The Goat River Orogeny marks a period of tectonic uplift, block faulting, and metamorphism that occurred concomitant with deposition of the Windermere Supergroup rocks at the end of the Late Proterozoic. Metamorphism is low-grade, evidenced only by resetting of paleomagnetic signatures and K-Ar (Lydon, 2007). Subsequent reactivation of these Proterozoic structures in the Mesozoic obscures the complete history of deformation at this time (Cook and Van der Velden, 1995).

The tectonic regime of the Late Proterozoic to early Palaeozoic was characterized by regional extension in association with the formation and development of the outboard passive margin. Palaeozoic deformation resulted in a 5-10 km northwesterly down-throw occurring along the antecedent of the Moyie-Dibble Creek Fault between the Early Cambrian and Late Devonian. The subsequent uplift of the area to the south resulted in a 240 km right-hand deflection of the boundary between the Cordilleran miogeocline and the North American cratonic platform (Cook and Van der Velden, 1995; Lydon, 2007).

Deformation between the Jurassic and Tertiary is dominated by compressional faults and concomitant regional folds; most fold trends are east verging, and all were translated to the east on the basal decollement of the Rocky Mountain fold and thrust belt (Laramide Orogeny). Most major structural features found within the Purcell Anticlinorium are Jurassic to Tertiary in age, and formed in association with the development of the Rocky Mountain fold and thrust belt. Most of these structures exploited antecedent structures dating from the Proterozoic and Achaean, particularly the abundance of ancient structures related to the Mesoproterozoic rift event. Deformation during this period is related to a Late Jurassic to Early Cretaceous event of sinistral transpression and Late Cretaceous to Palaeocene dextral transpression; both episodes are related to the oblique collision of Quesnellia with the North American craton. In between the transpressional events, granitic plutonism occurred during the Mid-Cretaceous, 115-90 Ma (Cook and Van der Velden, 1995; Lydon, 2007).

Purcell Anticlinorium

With respect to morphogeological belts, the Purcell Anticlinorium is located at the transition between the deformed North American cratonic rocks of the Foreland Belt in the east and the accreted terranes of the Kootenay Arc belonging to the Omineca Belt, in the west. This structure was created in response to Mesozoic contraction, uplift, and arching which resulted in 15 km of translation of Belt-Purcell Supergroup Rocks and some Palaeozoic rocks eastward and over a basement rooted ramp. The Purcell Anticlinorium extends approximately 400 km in a north-south orientation, and with a north plunging orientation. The east flank of the anticlinorium hosts early and middle Tertiary northwest-trending normal faults of the southern Rocky Mountain Trench. The west flank is cut by moderate to steeply dipping structures which developed in response to the docking of the Quesnellia terrane with cratonic North

America during the Jurassic and Early Cretaceous (Cook and Van der Velden, 1995; Paiement et al., 2007).

Formation of the Purcell Anticlinorium initiated when a family of imbricate thrust faults were propagated eastward during a period of Jurassic to Cretaceous contraction. This contraction resulted in the juxtaposition and imposition of accreted terranes with Belt-Purcell strata and the western edge of North America, and the consequent structural thickening of the Proterozoic sedimentary pile. During the Late Cretaceous and Early Tertiary, deformation further proliferated to the east, resulting in this wedge of strata and some basement slivers to be up thrown along a 5 to 10 km high basement ramp, which currently lies below the west side of the southern Rocky Mountain Trench.

The northeast quadrant of the Purcell Anticlinorium is characterised by a northwest plunging antiformal stack of northeast verging thrust sheets exhibiting greenschist metamorphism, and penetratively deformed by one to two fold events. Sedimentation was controlled by extensional fault systems related to a high standing block, known as the Windermere High, or Purcell Arch. This structure is interpreted as an elevated block on the stepped passive margin of ancestral North America. The current position of the locus of the Windermere High, which was later reactivated by Mesozoic to Tertiary thrusting, is in the vicinity of the Ptarmigan mine (Pope, 1990).

5.1.3 Mineralization

Many economic metal deposits are hosted in the Belt-Purcell Supergroup. Small stratabound deposits of copper and cobalt, typical of Sedimentary Hosted Copper or Red-Bed Copper mineralization focused along the axis of the rift, occur in central Idaho. Basinal dewatering occurring during infilling of the rift basin has produced many rich metal zones, most notably the Sullivan Sedimentary Exhalative (“SEDEX”) zinc, lead, and silver deposit, and including the Coeur d’Alene silver and lead vein systems of Idaho. The Spar Lake, Rock Creek, and Montanore Red Bed Copper deposits of Montana are also hosted in the Belt-Purcell Supergroup, and were formed in association with the initial stage of rift sag. The Belt-Purcell Supergroup also has the potential to host Iron Oxide Copper Gold (“IOCG”), Copper-Nickel-Platinum Group Elements, and other SEDEX deposits. This range of deposits is the result of two discrete metallogenic events.

The first event occurred during Mesoproterozoic deposition of the Belt-Purcell Supergroup and occurred in two periods during this basin development. Red-Bed Deposits formed at the on-set of the extensional tectonic event that initiated the formation of the Belt-Purcell Basin. Once the basin was in its main formation period and at its deepest, mainly base metal seafloor deposits of SEDEX, diagenetic veins, and

replacement deposits were formed. Ore was generated in response to the combination of tectonic extension, sediment compaction, generation of rift-related magmas, and their related hydrothermal convection.

The second event occurred during the Late Jurassic to Tertiary Laramide Orogeny. Porphyry-style and epithermal mineralisation occurred at this time in response to the emplacement of felsic magmas and mesothermal veins generated from compressional and transtensional tectonics. Vein deposits hosted lower in the Belt-Purcell stratigraphy tend to have a lead, zinc, and silver signature, whereas vein deposits hosted higher in the stratigraphic pile have a copper and silver affinity (Lydon, 2007; Paiement et al., 2007).

5.2 District Geology

Belt-Purcell Supergroup

In the region surrounding the Ptarmigan Mine, rocks of the upper Belt-Purcell Supergroup dominate, representing the rift cover or transgressive portion of the rift basin. This unit has an estimated total thickness of 4300 m, and is comprised of the Van Creek Formation, Lower Gateway Formation, Dutch Creek Formation, and the Mount Nelson Formation. Rocks typically consist of buff-weathering, light-coloured dolomites, intercalated with lesser siliciclastic rocks; carbonate rocks distinctively form thick, steep, and resistant cliffs in the region (Figure 5-2; Pope, 1990).

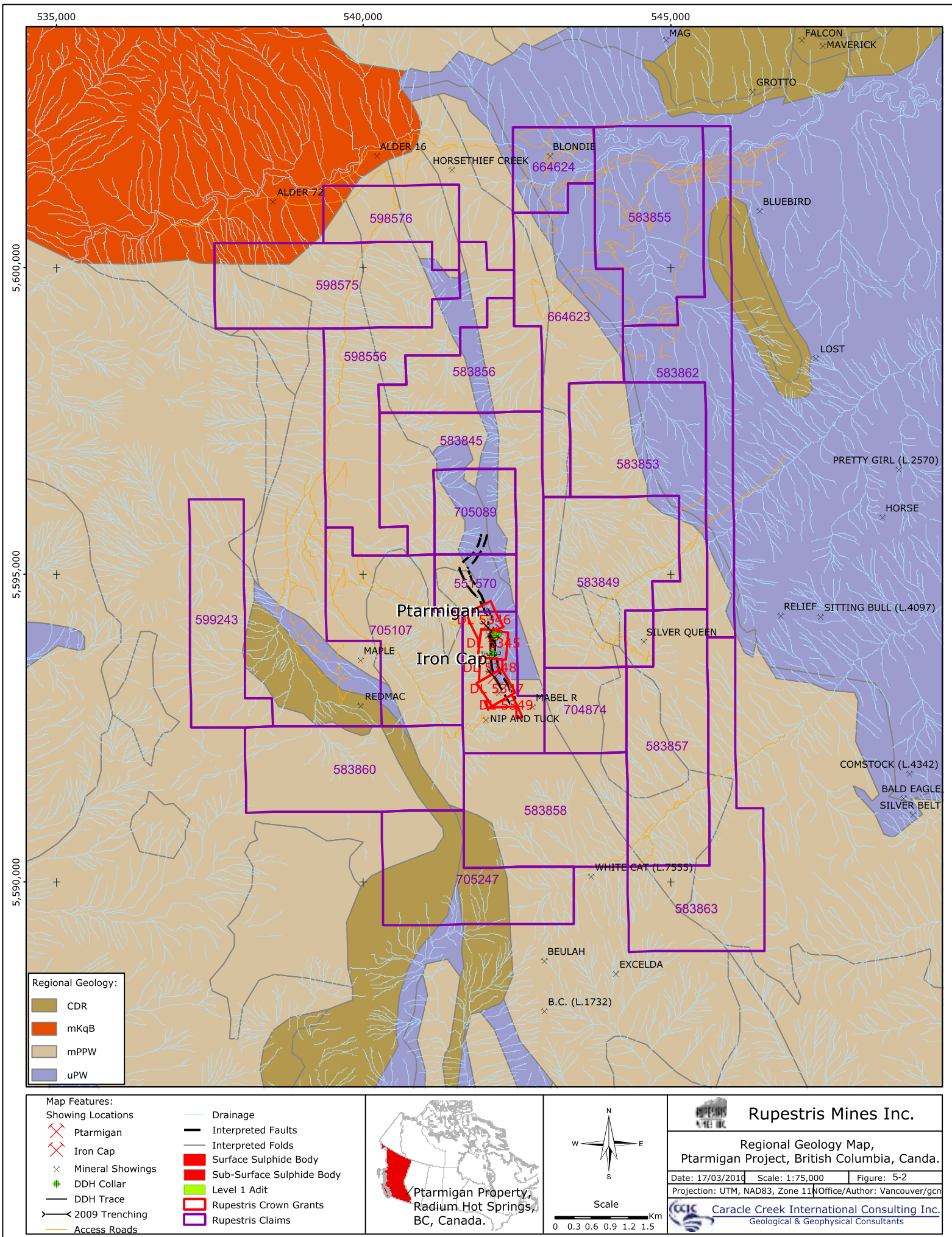
The Van Creek Formation, interpreted to have been deposited in a shallow-water environment, is characterised by coarse to medium grained, light-grey to green quartzite, siltstone, and silty argillite. Bed thickness is typically 20 to 50 cm, with irregular bases and abrupt tops; cross and planar lamination and grading are common features. Van Creek Formation quartzite grade upward into thin bedded, light-green quartzite, which grade into quartzite, silts, and dolomitic silts of the Lower Gateway Formation (Pope, 1990; Paiement et al., 2007).

The Lower Gateway Formation is subdivided into two members. The lower member, in excess of 1000 m thick, consists of quartzite, green siltstone, buff dolomitic siltstone, and dolomite. Thin-bedded quartzite units often contain weathered pyrite, lending a distinctive red spotted appearance to these beds. Sedimentary structures include cross-lamination, grading, channelling, and dewatering structures. Dolomite units may be micritic, and may host stromatolites and cryptalgal mats. Dolomitic upper units of this member pass into the 90 m thick upper member of the Lower Gateway Formation. This member consists of a thick, cream to buff weathering dolomite unit with cryptalgal and stromatolitic lamination,

cream intercalated chert, rare halite clasts, and cross-lamination. The local Mineral King lead-zinc-silver mine is hosted within this upper member (Pope, 1990).

The Dutch Creek Formation is in sharp contact with the underlying Lower Gateway Formation; this contact is associated with a narrow zone of rusty weathering. Four lithofacies are recognised in this unit, consisting of fine-grained quartzite and argillite in graded couplets. Fine herringbone, ripple, and channel cross-laminations are common sedimentary structures. Carbonate rocks are distinctly lacking from this formation. The contact with the overlying Mount Nelson Formation is paraconformable and very sharp; however as this is representative of a major change in facies, hydrodynamic energy, and sedimentary processes, it is interpreted as an unconformity (Pope, 1990).

The Mount Nelson Formation, which is the primary host of the Ptarmigan Mine, is estimated at 1320 m thick, and includes distinctively thick and well bedded sequences of white orthoquartzite, purple and buff-weathering dolomite, and purple argillite. Seven members are recognised in this formation: the Lower Quartzite; Lower Main Dolomite; Middle Quartzite, Orange Dolomite, and White Markers; PurpleSequence; Upper Middle Dolomite; Upper Quartzite; and Upper Dolomite. The Lower Quartzite, a prominent marker horizon, varies from 50 to 150 m in thickness, and consists of well-sorted, medium to fine-grained quartz arenite. The arenite is thinly bedded with well developed planar and cross laminations. Lower Main Dolomite is in a conformable and gradational contact with the underlying member. This dolomite is typically pale-grey weathering with a blue-grey fresh colour; thin beds of black carbonaceous argillite are frequently intercalated. Soft-sediment dewatering structures typically pass upward into cryptalgal and stromatilitic laminations. This member is capped by a unique cream-coloured, stromatilitic, crystalline cherty-dolomite unit 20 m in thickness. The next member in the stratigraphy consists of the Middle Quartzite, Orange Dolomite, and White Markers units. The Middle Quartzite is in sharp contact with the underlying Lower Main Dolomite, and is a distinctive apple-green colour. It forms the summits of Mount Nelson and Mount Catherine. Quartz arenite, impure sandstone and argillite also belong to this unit, displaying sedimentary structures including irregular bottoms, argillic rip-up clasts, truncated tops, grading and channel cross-bedding, indicative of rapid deposition as turbidite units. This unit grades into the buff to orange-weathering silty and sandy crystalline dolomites, dolomitic siltstones, argillite, and impure sandstone belonging to the Orange Dolomite unit. Dolomite beds host stromatolites, cryptalgal mats, and intercalated chert. Sedimentary features include solution collapse breccias, halite clasts, and mud cracks. Structures in the siliciclastic component include cross-laminations, grading, and dewatering structures.



The overlying and conformable White Markers unit includes cream, buff, and silver-grey dolomite with local, white magnesite beds and interbedded with purple, green, and buff coloured dolomitic mudstone units. Dolomite units display stromatolitic lamination and cream intercalated chert; dolomitic mudstone hosts abundant halite casts. The Kootenay Queen mine is hosted in this White Markers unit.

Overlying the White Markers unit is the Purple Sequence. Rocks in the Purple Sequence consist of purple, cross-laminated dolomitic sandstone and siltstone, with abundant halite clasts, and in gradational contact with the White Markers unit. These beds grade upward into purple argillite. Hematite is responsible for the distinctive purple colour of these beds. Minor mud chip breccias and monomict pebble conglomerates are interbedded in this unit; at the top of the sequence a polymict boulder conglomerate is in abrupt contact with the purple shale. The Upper Middle Dolomite, the next member in the sequence, is similar to the Lower and Upper Dolomite, with the exception of abundant algal allochems, typically replaced by chert, including oncolites and oolitic, pisolitic, and peloidal lamination.

Purple Sequence rocks are overlain by the resistant and cliff-forming Upper Quartzite member, consisting of well-sorted, medium to coarse-grained arenite with quartzite cement. Upper Quartzite is distinguished from the Lower Quartzite by its massive bedding and lack of preserved sedimentary structures; massive tabular cross beds and herringbone cross-laminations are observed rarely in this member. Finally, the Upper Dolomite, in conformable and gradational contact with the underlying quartzite, caps the Mount Nelson Formation, and the Belt-Purcell Supergroup. The local Paradise lead-zinc-silver mine is hosted in this member. This member is well-bedded, pale to dark grey in colour, and interbedded with quartz and dolomite-supported cross-laminated sands. This member is typified by prolific black chert layers, which often replace cryptalgal structures and thin, carbonaceous black shale interbeds (Pope, 1990).

Windermere Supergroup

Locally, the Windermere Supergroup is comprised of two main formations: the Toby Formation and the Horsethief Creek Formation. It is separated from the underlying Belt-Purcell Supergroup by a pronounced irregular unconformity. The thickness of this sequence is also highly variable, ranging from 80 to over 3000 meters; this variation marks the existence of the paleo high known as the Windermere High. The Toby Formation is found in contact with various levels of the Belt-Purcell Supergroup within adjacent fault blocks, indicative that faulting episodes were occurring at the time of sediment deposition. Based on this information, it is most likely that the Windermere High represents a high-standing block on the terraced, ancient passive margin of North America (Pope, 1990).

The Toby Formation consists of four lithofacies exhibiting rapid lateral facies changes. The Boulder Breccia lithofacies is locally the base of the Toby Formation, represented by monomict, clast-supported breccias of local provenance. The lenticular nature of this lithofacies suggests it was deposited upon irregularities in the Toby unconformity surface. The Diamictite lithofacies, with a high degree of internal variation, encompasses a diamictite hosting rounded quartzite and subangular dolomite boulders in a sandy, argillic matrix, and a finer-grained form with well-rounded quartzite and angular dolomite pebbles and cobbles hosted in an argillic matrix. All clasts are derived from the Mount Nelson Formation of the Belt-Purcell Supergroup. The Sparse Clast lithofacies is represented by a series of graded, coarse to fine, poorly sorted arenite and argillite with rare rounded quartzite clasts. Finally, the Siltstone-Argillite lithofacies, the most prevalent unit of the Toby Formation, consists of well-sorted and graded fine arenite and argillite occurring in couplets, typical of fine scale Bouma sequences (Pope, 1990).

The overlying Horsethief Creek Formation is in gradational contact with the Toby Formation. Units within this formation show rapid lateral facies changes and variations, forming an undeveloped stratigraphy of lithofacies, in contrast to a series of discrete lithological units. Five lithofacies are recognised: the Black Carbonate, Siltstone-Argillite Lithofacies, Dolomite, Quartz Feldspar Arenite and Pebble Conglomerate, and Red and Varicoloured Argillite. The Black Carbonate, a marker bed used to define the bottom of the Horsethief Creek Formation, consists of thin-bedded, dark-grey to black limestone with local sand and silt. Sandy limestone display coarse un-laminated to cross-laminated quartz sand. The Siltstone-Argillite Lithofacies is a thick sequence of thin, graded siltstone and argillite, and black, green, or grey finely laminated argillite. The graded siltstone and argillite was likely deposited as a distal turbidite, while the laminated argillite rocks represent pelagic deposition. This is the most dominant and pervasive unit of the Horsethief Creek Formation. The Dolomite Lithofacies is buff coloured, and up to 30 m thick. Quartz Feldspar and Pebble Conglomerate represent a thick series of grit, and typically form the flat-topped mountains of the eastern Purcell Range. Pebble conglomerates are grain supported, with jasper clasts and green to grey argillite, quartzite, and dolomite lithoclasts. The matrix consists of quartz, feldspar, lithic clasts, carbonate, sericite, and chlorite. Sedimentary structures include grading, channels, rip-up clasts, and flame structures. Beds are typically lenticular in shape. The Red and Varicoloured Argillite sequence comprises red, green, pink, purple, and buff argillite with interbedded pink carbonate, and varicoloured impure arenite. This lithofacies occurs at the top of the Horsethief Creek Formation (Pope, 1990).

Igneous Rocks

There are five igneous suites in the region of the Ptarmigan Mine: the Toby volcanic rocks, green meta-diabase dykes, andesitic volcanic rocks, potassic ultramafic dykes, and the Horsethief Creek granite

batholith. The Toby volcanic rocks are Hadrynian in age, dated at 760 Ma. This suite represents a submarine volcanic suite, deposited during extension of the passive margin. The green meta-diorite dykes are correlative with this suite, and are the most commonly occurring igneous rocks in the area. Locally, some copper mineralization is associated with the ultramafic dykes. Andesitic volcanic rocks are Devonian in age, and hosted in the Mount Forster Formation. The potassic ultramafic dykes are kimberlitic to lamprophyric in nature, and hail from the Permo-Triassic, 245 Ma. These rocks occur in a north trending suite, and mark the current locus of the extinct Windermere High. The Horsethief Creek Batholith is Middle Cretaceous in age; intrusive ages range from 122 to 94 Ma. This is one in a series of large quartz monzonite bodies found throughout the region (Pope, 1990).

Structure

Four phases of deformation are recognized in the area of the Ptarmigan Mine: Helikian-Devonian extension and passive margin, Jurassic-Paleocene contraction (Laramide Orogeny), and Eocene trans-tension. The Helikian to Devonian extension and passive margin culminated in discrete differences between regional and local sedimentary facies, extensional faults, unconformities such as the Windermere Unconformity, and significant changes in stratigraphic thickness of units across fault systems. The Jurassic-Paleocene event is characterized by a southwest to northeast tectonic transport direction. A regional foliation from this event developed in response to layer-parallel shortening, faulting, and folding. Associated with this event, a greenschist metamorphic fabric developed locally. Eocene trans-tensional event resulted in reactivation of pre-established thrust faults and high-angle normal faults. Ferroan dolomite found around fault zones is a unique identifier for this extensional event (Pope, 1990).

Three major thrust sheets comprise the main structural features of the region surrounding the Ptarmigan Mine: the Mount Nelson, Mineral King, and Mount Forster sheets. The Mount Nelson sheet can be further sub-divided into 4 discrete fault panels, and is dominated by the Mount Nelson-Mount Forster anticline-syncline pair. This fold pair is thought to be generated by a frontal ramp on the underlying Purcell Fault. It hosts a series of easterly vergent imbricate thrust panels, which are further complicated on one panel by a series of westerly vergent back-thrusts. The Mineral King sheet, thrust over the Mount Nelson sheet along the Delphine Fault, is characterized by an easterly vergent series of fault bound panels in the western region of the sheet. This duplex lies in the footwall of the Mount Forster Fault. Finally, the Mount Forster Sheet over-thrusts the Mineral King sheet along the Mount Forster Fault. This structure is plugged by the Later Cretaceous Horsethief Creek Batholith. The root of the Mount Forster sheet lies in a steeply dipping, north trending zone along the eastern edge of the Kootenay arc (Pope, 1990).

Cutting all of the thrust sheets identified by Pope (1990) and their associated compressional structures are transtensional late Cretaceous to Tertiary structures. Pope (1990) notes two such major structures (1) north to northwest trending normal faults which commonly reactivate portions of the Mesozoic Laramide Orogen compressional thrust faults and (2) very broad open folds with NE-SW trending axial planes that are coincident with many of the major drainages in the area.

5.3 Local Geology

The Ptarmigan Mine is located on a set of north trending steeply dipping normal faults which host the high-grade silver mineralization and are the locus for iron-carbonate alteration in the area. According to the regional geology maps, these normal faults separate units of the Mt Nelson Formation, belonging to the mid-Proterozoic Belt-Purcell Supergroup to the west, and the Toby Formation of the upper-Proterozoic Windermere Supergroup to the east. The diamictite units which characterize the Toby Formation have not been observed in the Ptarmigan Mine area, hence, it appears that the Ptarmigan Mine is completely hosted by Mt Nelson dolomite and shale. Mt. Nelson Formation is dominated by layers of dolomite and argillaceous dolomite with lesser amounts of argillite/phyllite, slate, greywacke, and rare quartzite. All of these units have been affected by the aforementioned Mesozoic to Cenozoic Laramide Orogeny which resulted in the easterly verging (west dipping) closed folds and are prevalent in the stratigraphy surrounding the Ptarmigan deposit. An antiformal feature occurs immediately west of the main normal fault set which hosts the Ptarmigan mineralization.

In the vicinity of the north trending fault set which hosts the mineralization on the Ptarmigan Property is a distinct halo of iron-carbonate alteration which results in a distinct orange coloured limonite weathering. This orange colouration appears to affect most of the rocks regardless of their composition and is strongest within the calcareous rocks of the Mt. Nelson Formation. Pope (1980) notes that the Tertiary normal faults in the area are characterized as north to northwest trending, steeply dipping normal faults which are commonly accompanied by ferroan dolomite in the fault zones. Hence, the faults that host the mineralization in the Ptarmigan Mine area are likely Tertiary in age and related to the extensional tectonic regime that is interpreted to have occurred at that time.

6.0 DEPOSIT TYPES

The Proterozoic Belt-Purcell Basin is known to host a wide variety of significant mineral types. According to the British Columbia database on mineral occurrences in the Province (“MINFILE”) Purcell

Table 6-1. Summary of geological characteristics of neighboring Ag-Pb-Zn Deposits.

Name	Commodity	Host Unit*	Structure	Gangue	Strike	Dip	Min Width (m)	Max Width (m)
DELOS	Cu, Ag, Au	HT	FT/V	qtz, py	300	90	1.5	1.5
TAMARAK	Pb, Zn, Ag	DC						
IMPERIAL AND EMPIRE	Pb, Ag, Au	DC	FT/V	qtz			1.4	4.6
SURELOCK	Ba	MN	FT		335		5	
WHISTLER	Pb	HT	V	qtz, py	305	90		
MONITOR	Ag, Sb, Pb, Cu	HT	V	qtz	45	90	0.6	1.5
MINERAL KING	Ag, Zn, Pb, Ba	GW	FT, rep	py, ba, qtz	335			
COPPER KING	Ag, Cu, Zn, Pb	MN	FT/V	qtz, ba	315	90	0.4	
IMPERIAL	Cu, Ag	MN	FT/V	qtz, ba	155	80	0.9	1.3
BROKEN HILL	Cu, Ag	MN	V	qtz, ba	315			
GREAT NORTHERN	Cu, Ag, Pb	MN	V	qtz, ba	315			0.3
SILVER SPRAY	Ag, Pb, Zn, Cu	GW	V				0.05	0.2
BUTLER	Ag, Cu, Zn, Pb	MN	V	qtz, ba			0.5	
YORNOC	Pb, Cu	Purcell		qtz, ba				2
RAD	Ag, Pb, Zn, Cu	MN	V	Qtz				
DUTCHY	Cu	GW	FT/V, rep	qtz	0	90		
PARADISE	Pb, Zn, Ag, Cd	MN	FT/V, rep	qtz, py	0	90		
PTARMIGAN	Ag, Au, Cu, Pb	MN	FT/V, rep	qtz, cb, py	350	80	0.1	0.3
DELPHINE	Ag, Pb, Zn, Cu	MN		qtz, cb	330	78	0.3	1
KOOTENAY QUEEN	Pb, Ag, Cu, Zn	MN	V	qtz			0.3	
HOT PUNCH	Ag, Pb, Zn, Au	MN/T	FT/V				0.1	1
DOMINION	Ag, Pb, Zn, Cu	DC	FT/V				0.3	0.6
IRON CAP	Ag, Pb, Zn, Cu	MN/T	FT/V	qtz, cb, py	350	80	0.3	1
NIP AND TUCK	Ag, Pb, Au, Cu	MN	FT/V, rep	qtz, py, cb	350	80		
RED LEDGE	Ag, Pb, Zn, Cu	GW	V	py			0.5	
BALD EAGLE	Pb, Zn, Ag, Au	MN	rep	py				
WHITE CAT	Ag, Pb, Cu	MN	FT/V	qtz	230	70	0.5	2.6
LISA	Pb, Zn, Cu	GW	FT/V	qtz, ba				
JUMBO	Pb, Zn, Cu	GW	rep	py				
EXCELDA	Ag, Au, Pb, Zn	MN	FT/V	qtz, py			0.01	
OUTLET	Ag, Pb, Zn	DC	FT/V	qtz, py	315	90	0.3	0.9
MAPLE	Ag, Pb, Zn	MN	FT/V	qtz, py	350	90	0.05	0.3
SILVER BELT	Ag, Pb, Zn	MN	V	qtz			0.01	
BLACK DIAMOND	Ag, Pb, Zn	GW	V	qtz, py	315	90		
MABEL R	Ag, Pb	MN	FT/V	qtz, py	350	90		
SITTING BULL	Ag, Pb, Sb,	MN	V	qtz			0.05	0.3
RELIEF	Ag, Pb, Sb,	MN	V	qtz				
M.T. FRACTION	Ag, Cu, Pb, Zn	MN	FT/V	qtz, cb	135	80	0.2	0.3
B.C.	Ag, Pb, Zn,	MN	V	qtz			0.3	0.5
BEULAH	Ag, Pb, Cu, Zn	MN	FT/V	qtz, ba			0.05	0.6
SHELLY	Pb, Cu	DC		qtz, ba	225	15		2
REDMAC	Zn, Pb, Ag	MN/HT	FT/V	qtz, cb			0.05	0.1
CHARLEMONT	Ag, Pb, Zn, Cu	DC	FT/V	qtz, cb	315	90	0.1	1
COMSTOCK	Pb, Ag	MN	rep					1
HIGH EAGLE	Au, Cu	GW	V	qtz, py				3
NETTIE M	Ag, Au, Pb, Cu	GW	FT/V	qtz,	0	90	0.3	1
MIN 4	Ag, Pb, Zn, Cu	MN/DC			315	90		
STAR	Ag, Pb, Zn, Cu	MN	FT/V	qtz				
SILVER QUEEN	Ag, Pb, Zn, Cu	MN	V	qtz, py	315	90	0.2	

* DC= Dutch Creek, HT=Horsethief Fm, GW= Gateway Fm, MN=Mt Nelson Fm, T=Toby

Table 6-2. Recorded production from Ag-Pb-Zn deposit in the local area (from BCEMPR Inventory Reports).

Name	Mined (Tonnes)	Gold (g)	Silver (g)	Copper (kg)	Lead (kg)	Zinc (kg)	Barite (kg)	First Year	Last Year
DELOS	40		218	4,191				1919	1919
MINERAL KING	2,102,905		57,723,094	662,004	37,437,260	90,371,633	57,241,495	1928	1974
PARADISE	64,635	995	22,928,788		7,247,973	3,623,589		1901	1953
PTARMIGAN	657	3,546	2,769,008	3,812	3,519	848		1900	1959
DELPHINE	170		614,315	3,025	46,880			1899	1905
HOT PUNCH	74	62	108,582		27,268	904		1908	1926
IRON CAP	32		27,184		8,774			1920	1920
NIP AND TUCK	161	31	460,603		82,315			1904	1923
WHITE CAT	152		154,893		80,644			1924	1928
MAPLE	26		25,878		8,256			1915	1925
SILVER BELT	98		148,735		17,950			1901	1918
BLACK DIAMOND	43		60,028		26,672			1906	1907
MABEL R	15		4,137		9,028			1918	1918
SITTING BULL	12		32,472		3,841			1919	1919
M.T. FRACTION	33		254,641	1,655	39			1901	1903
B.C.	79		198,873		41,415	427		1905	1927
CHARLEMONT	12		26,780		5,555			1907	1907
COMSTOCK	19		21,461		11,189			1907	1907
NETTIE M	61	591	261,483	3,170	19,141			1905	1906
STAR	3		4,821		1,333			1926	1926
SILVER QUEEN	4		6,936		2,329	72		1961	1961
	2,169,231	5,225	85,832,930	677,857	45,081,381	93,997,473	57,241,495		

Supergroup rocks contain polymetallic silver-lead-zinc+/-gold vein, sedimentary hosted copper, sedimentary exhalative lead-zinc+/-silver, gold quartz veins, iron-oxide breccia and vein with phosphorous-copper-gold-silver, Mississippi-Valley type lead-zinc, sparry magnesite, vein barite, manto lead-zinc-silver and numerous other hydrothermal deposit types related to the Cretaceous intrusions that cut the Purcell Sedimentary rocks. As this list suggests there are a large range deposit types but silver, lead and zinc deposits are dominant and occur as both vein and stratiform sedimentary exhalative (“SEDEX”) massive sulphide deposits.

The economically most significant deposit hosted in Purcell Supergroup rocks is the world class Sullivan SEDEX Pb-Zn-Ag Deposit near Kimberley, BC. It had an original economic resource of >160 Mt of 5.9% Zn, 6.1% Pb and 68 g/t Ag and had ultimately mined upon its closure in 2001 ~150 M tonnes of ore (160 M tons) which produced ~ 300 Moz Ag, ~8.4 Bkg Pb and ~7.9 Bkg Zn. The Sullivan SEDEX deposit is situated at an intraformational contact within the Aldridge Formation, where it is intruded by the Moyie sill complex and is ~ 5 km lower in the stratigraphy of the Purcell Supergroup than the Mt. Nelson Formation which hosts the Ptarmigan Mine (Paiement et al., 2007). Hence the Ptarmigan Property is unlikely to contain the Sullivan SEDEX horizon except at extreme depths and is not a realistic exploration target.

Throughout the Purcell Supergroup, veins were emplaced in two discrete eras: (1) lead and zinc veins during the Proterozoic and (2) silver, lead and zinc veins that are likely Late Cretaceous to Early Tertiary in age. The Proterozoic veins were emplaced in response to a regional metamorphic hydrothermal event around 1 Ga, and are defined by a longer strike length, of up to 1 km, and consist of fine-grained and sheared massive galena, sphalerite, pyrite, and occasionally pyrrhotite, in a brecciated quartz and calcite gangue. These veins are hosted exclusively in the lower Belt-Purcell strata, especially the Aldridge Formation, which is also host to significant SEDEX deposits, hence are not likely to occur in the area of the Ptarmigan Property which is underlain by the uppermost stratigraphy of the Purcell Supergroup.

Cretaceous to Tertiary veins/mineralization are characterized by a shorter strike length of about 200 m, and are composed of coarsely brecciated to sheared quartz with rare calcite and dolomite gangue, with pods, stringers, and stockworks of galena, tetrahedrite, sphalerite, pyrite, and locally gold. These veins have no preference or affiliation with Belt-Purcell Supergroup strata they cut, and can further be subdivided into quartz-sulphide veins (Silver-Base Metal Epithermal Veins) or quartz-carbonate-sulphide (Manto-Style) replacement in dolostone. Both styles of mineralization are present in the Ptarmigan Mine workings (Paiement et al., 2007) as well as many of the Ag-Pb-Zn showings in the immediate area around the Ptarmigan Property. Tables 8-1 and 8-2 are a summary of the geological characteristics and production, respectively, from Ag-Pb-Zn showings in the area.

6.1 Silver-Base Metal Epithermal Veins

With the evolution of the “Epithermal” deposit model many of the deposits which have previously been categorized in the “Polymetallic Veins” or “Metasediment Hosted Silver Veins” have been re-assigned to the Epithermal family of deposits. Epithermal deposits generally require the presence of contemporaneous magmatic activity to provide the heat-engine for the hydrothermal fluids which deposit the vein material. However, it has become clear that the magmatic activity does not have to be proximal to the mineralized veins (> 5 km) and in many cases may not ever be observed should they be at extreme depths (Corbett, 2001; Corbett and Leach, 1998).

The Epithermal Deposit Model was first recognized in the early 1980’s as a response to the rise in the price of precious metals and the exploration boom for such deposits. One of the earliest models was proposed by Buchanan (1981) and modified and incorporated into the low-sulphidation epithermal model over the last 27 years (e.g. Corbett, 2002; Corbett and Leach, 1998; Hedenquist, et al, 1996, Simmons et al, 1988; etc...). The low-sulphidation epithermal model predicts that the low-sulphidation epithermal veins: (1) formed in rifting or tensional environments; (2) formed along normal or strike-slip fault

structures; (3) are structurally controlled; (4) are often mineralogically zoned laterally and vertically; (5) have the highest precious metal zones within boiling horizons (likely related to paleo-water tables); and, (6) often occur in faults that diffuse as they near the surface and are accompanied with intense acid-sulphate alteration (advanced argillic and silicification) that cap the systems (Figure 6-1). The latter two characteristics of low-sulphidation epithermal deposits are only present in near surface rocks (during mineralization) which require relatively little erosion or the emplacement of cover rocks to protect and preserve these near surface rocks. Neither appears to be the case in the Ptarmigan Property and surrounding area, hence it is unlikely these near surface features will be observed.

World-class examples of these types of deposits are mainly found in the Mexican Altiplano Region including the Pachuca District (~ 107 MT @ 2.2 g/t Au, 461 g/t Ag, 0.2% Pb, 0.75% Zn), and the Guanajuato District (~ 83 MT @ 17 g/t Au, 374 g/t Ag) to name only a few. More locally the Slocan-Silverton Camp occurs ~ 75 km southwest of the Ptarmigan Property and two notable Silver-Base Metal Epithermal Vein deposits are the Silvana and Lucky Jim Mines (described in section 18.1).

As figure 6-1 suggests, several other styles of mineralization are common within the rift related Silver-Base Metal Epithermal Vein regime including Carbonate Replacement deposits (“CRD”) should there be calcareous host rocks in the vicinity. Much of the Mexican Altiplano is underlain by calcareous sedimentary rocks and this region contains an abundance of CRD’s. Obviously, since the dolomite dominated Mt Nelson Formation is common within the Ptarmigan Property and surrounding region it is not surprising that CRD’s are also common in this region and often occur in close proximity to mineralized fault/vein systems.

6.2 Carbonate (Manto) Replacement Deposits

Carbonate Replacement Deposits require two main components: (1) pre-existing host rocks in the area that contain significant amounts of carbonate minerals (i.e. limestone or calcareous clastic sedimentary rocks) and (2) a hydrothermal event which forces acidic, metal laden, hydrothermal fluids through the calcareous host rocks. The carbonate minerals in the host rock buffer the acidic hydrothermal fluids and are dissolved in a reaction which commonly makes the metal ions carried by the hydrothermal fluid super-saturated and they precipitate as sulphide minerals. These types of deposits are also called “Mantos”, the Spanish word for “blanket” since fluids tend to exploit specific calcareous layers in the local sedimentary sequence and become near horizontal sheet like bodies or Mantos.

Typically, CRDs are comprised of massive to semi-massive sulphide bodies which can contain any combination of sphalerite, galena, pyrite, chalcopyrite, marcasite; arsenopyrite, pyrrargyrite/proustite,

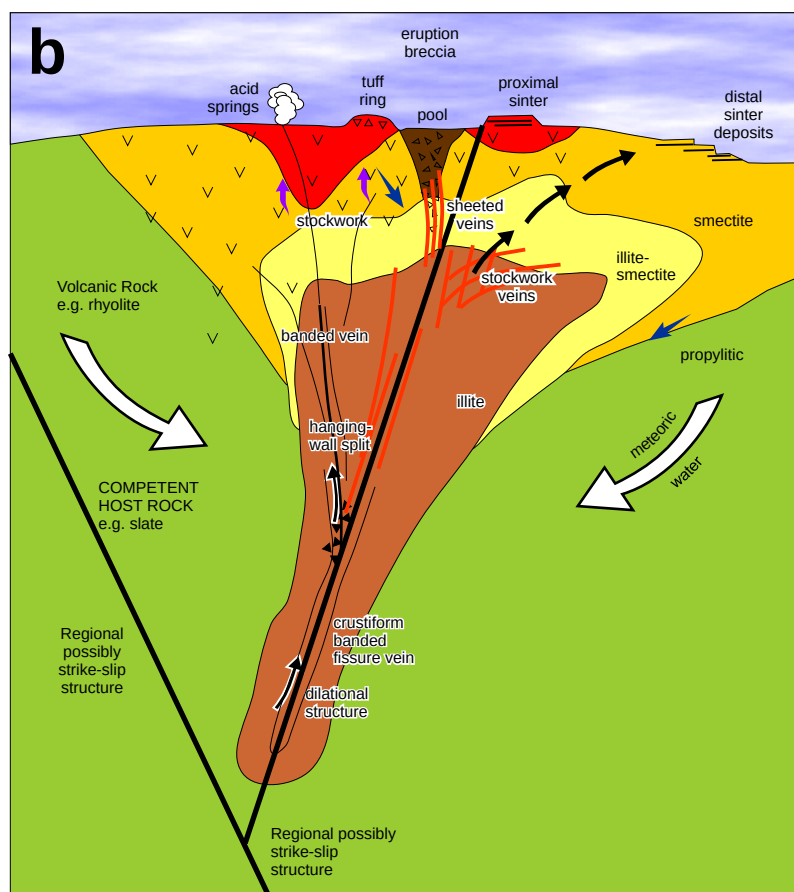
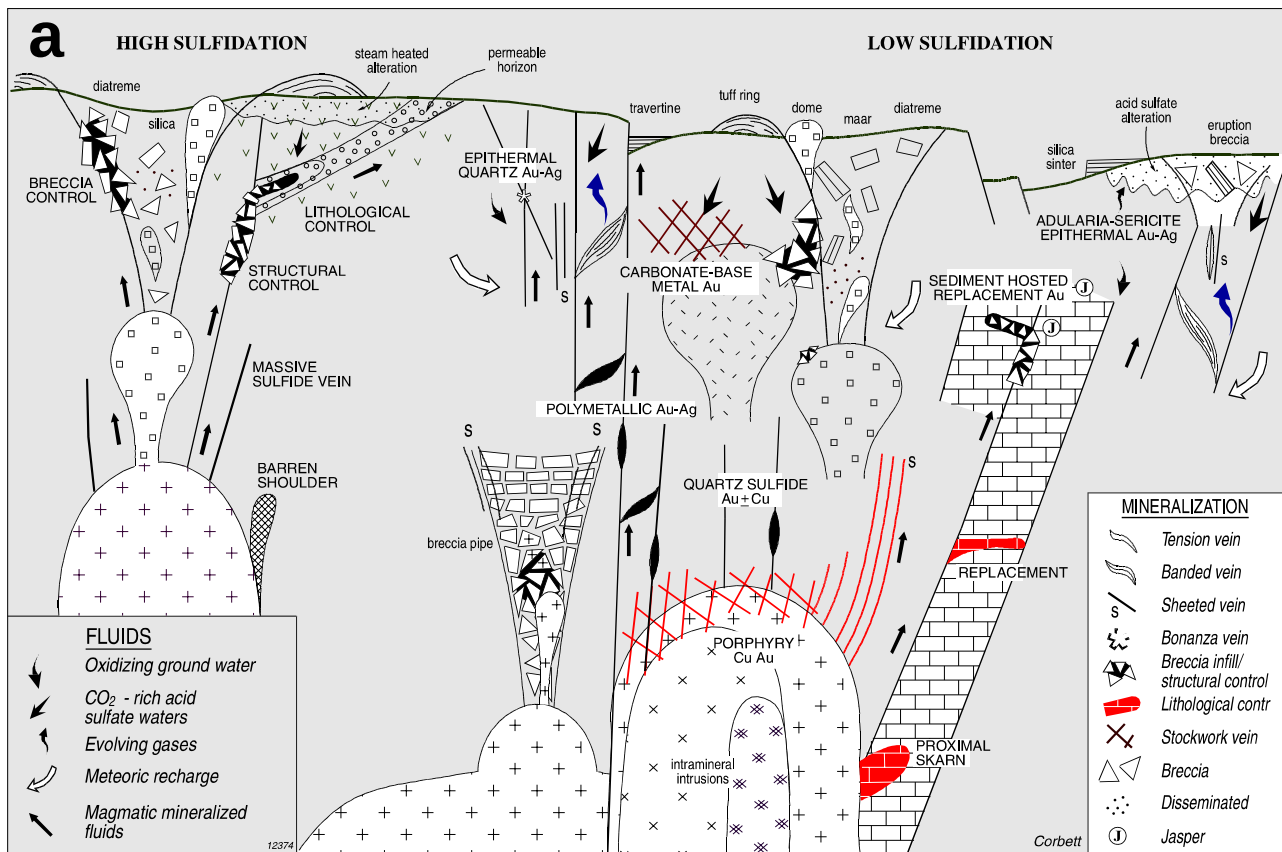


Figure 6-1. (a) Conceptual model for different styles of hydrothermal Cu-Au-Ag deposits in Island arc and rift environments (after Corbett, 2002) (b) Schematic cross-section of a typical rift related epithermal low-sulphidation system (after Corbett, 2004). by illite (brown zone) grading outward to propylitic alteration.

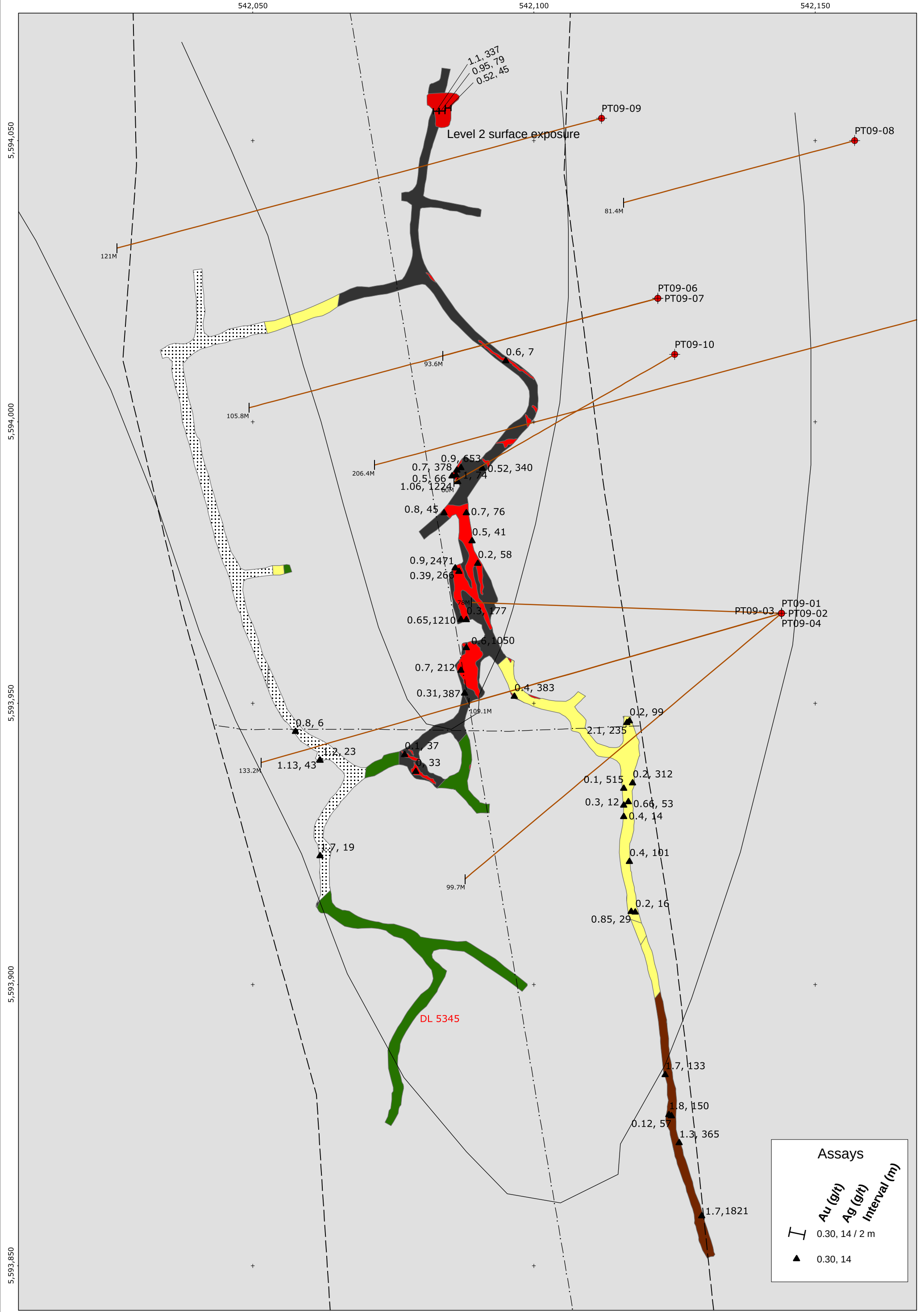
enargite, tetrahedrite, jamesonite, and/or bournonite. Accessory gangue minerals are often quartz, barite, gypsum or calc-silicate minerals. These sulphide bodies are often very irregular and generally follow either calcareous units/layers and fluid pathways within these calcareous rock units such as faults, bedding planes, and joint sets. Common alteration associated with CRDs is silicification with some calc-silicate minerals.

Most CRDs are small irregular and discontinuous bodies (< 1 MT) with larger deposits generally comprised of numerous smaller stacked or along strike lenses in close proximity. An example of a Mexican CRD deposits is the Santa Eulalia District (24 MT @ ~300 g/t Ag, 8% Pb, 9% Zn) and a local example the Bluebell deposit (4.8 MT @ ~ 46 g/t Ag, 5.2% Zn, 4.9% Pb) ~ 70 km southwest of the Ptarmigan Property (Nelson, 1996).

Notably the largest deposit in the immediate area is the Mineral King Mine (Table 8-2), which is classified as either a Mississippi Valley Type Pb-Zn (a type of CRD deposit) or Sedimentary Exhalative deposit a replacement deposit by the BCGS MinFile description (MinFile #082KSE001). Descriptions of this deposit suggest that the sulphide bodies (pyrite-sphalerite-galena) have replaced dolomite rocks and are in-close spatial relationship with steeply dipping north trending normal faults. Hence, this deposit appears to be more of a carbonate replacement deposit and suggests CRDs are the most economically significant deposit type in the Ptarmigan area.

7.0 MINERALIZATION

Mineralization on the Ptarmigan Property occurs in two forms: (1) as sheared quartz-pyrite+/-galena+/-sphalerite+/-tetrahedrite veins within north trending normal fault zones and (2) as massive pyrite replacement zones within argillaceous dolomite units adjacent to the north trending faults. Host rock for approximately 1 to 8 m on either side of the normal fault zones are intensely silicified with ~1-5% disseminated pyrite. Silicification appears to grade outward into an iron carbonate alteration assemblage which extends for 20 to 100 m from the mineralized normal fault structures. Iron carbonate or ferroan dolomite alteration is manifested in the increase in iron content of carbonate host rocks or as small (1-20 cm long and 1-10 mm wide) iron carbonate gash veins. These rocks are distinguished by orange limonitic weathering surfaces which are particularly well displayed by the calcareous units of the Mt. Nelson Formation.



Legend:

- ▲ Grab Samples Au(g/t), Ag(g/t)
- DDH Collars
- | DDH Bottom
- DDH Traces
- Folds Axis
- Folds
- - Faults
- Crown Grants

Adit Level-1 Geology:

- Dark Grey Siliceous Dolomite
- Dolomite Schist
- Siliceous Dolomite
- Slate and Quartzite
- White Quartzite
- Pyrite Body

Ptarmigan Property, Radium Hot Springs, BC, Canada.

Scale

Rupestris Mines Inc.

Adit Level 1 Geology Map, Ptarmigan Project, British Columbia, Canada.

Date: 26/10/10	Scale: 1:600	Figure: 7-1
Projection: UTM, NAD83, Zone 11N Office/Author: Vancouver/gcn		

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7.1 High-Grade Ag-Au Veins

The principle targets for previous miners were high-grade tetrahedrite shoots within the sheared quartz-pyrite+/-galena+/-sphalerite+/-tetrahedrite veins. There appears to be at least two parallel fault structures in the Ptarmigan Mine workings which are discontinuously mineralized (Figure 7-1). Sheared quartz-pyrite veins are generally 1-10 cm thick and locally contain galena and or sphalerite. Sampling from the veins ranged from 0.05 to 3.06 g/t Au and 5 to 1821 g/t Ag (Tables 10-1 and 10-3).

Most of the production from the Ptarmigan Mine comes from the high-grade shoot in Level 3 of the Mine that is a 10 cm thick and ~30-50 m long lens that plunges steeply and contains tetrahedrite. Tetrahedrite occurs as isolated and discontinuous lenses at the margins of the shoot and appears to become more continuous and comprise a greater percentage of the overall vein material in the core of the shoot. Sampling from this shoot returned assay values between 4.7 and 18.3 g/t Au and 1105 to 1451 g/t Ag. Wall rocks immediately adjacent to the high-grade shoot were also sampled but did not return any significant values.

Lead and zinc values were generally low within the veins; geochemical results from CCIC sampling of these veins did not exceed 1% Pb or Zn. This appears to be consistent with the averages returned by smelter settlement sheets for the Mine between 1957 and 1959 which averaged 0.32% wet Pb and 0.38% Zn. Arsenic and antimony values from the smelter settlement sheets averaged 2.9% and 2.7%, respectively and are in the same range as the assay values returned from the CCIC sampling. Anomalously high bismuth values, up to 400 ppm, in the veins appear to accompany high gold-silver assay values. Tungsten was also notably anomalous locally, up to 200 ppm, although the values were erratic and did not show a positive correlation between gold and silver. The presence of elevated Bi and W are important however, since the Horsethief Batholith which lies less than 1 km north of the Ptarmigan Property is associated with tungsten skarn deposits and high bismuth levels in veins and hence the mineralization in the Ptarmigan Mine is also likely related to and contemporaneous with the Horsethief Batholith emplacement.

7.2 Pyrite Replacement Zone

A massive pyrite replacement zone occurs within silicified Mt. Nelson argillaceous dolomite and between the two north trending normal faults which host the mineralized quartz veins in the Ptarmigan Mine workings. This massive pyrite zone outcrops and appears to have been the original showing which compelled the previous miners to excavate Level 1 in the mine. Almost all of the production has occurred

from the high-grade shoot on the west vein in the mine and the pyrite zone although tunnelled into appears to have been ignored by historic miners.

In the mine workings the pyrite zone is approximately lenticular in shape although internally very irregular with septa of shale within it (Figure 7-1). It appears to be ~ 40-50 m long and 1-6 m wide in the mine workings and as mentioned above it extends to the surface approximately 10 m above the Level 1 workings and what has been called Adit #2 or Level #2. Its depth extent is unknown but it appears to be a shallowly plunging lenticular prism which plunges southward.

Silicification and iron-carbonate alteration extends for approximately 5 to 100 m away from the north trending faults which bracket the pyrite zone and completely envelops the pyrite alteration. The contacts of the pyrite zone do not appear to follow any preferred orientation except for bedding locally and are sharp, with no gradation into the surrounding host rock of Mt. Nelson argillaceous dolomite. Internally, the pyrite is nearly massive with small highly angular fragments (1-2 cm) of black shale which comprise ~ 5-10% of the rock by volume. These shale fragments locally line up into discontinuous layers and appear to be remnants of intercalated shale within the now dissolved and replaced dolomite.

Pyrite is common disseminated within the argillaceous dolomite within drill core and in the Upper Ptarmigan showing. Locally pyrite increases to semi-massive (15-50%) and to massive pyrite layers (>50%). Generally, these layers appear to be bedding parallel but locally they have sharp possibly cross-cutting contacts. It is unclear whether all pyrite zones are replacement style mineralization or strataform pyrite that has had its metal grades upgraded by their proximity to the north trending faults.

This style of mineralization is similar in character to that mined at the Mineral King deposit some 10 km south of the property. The Mineral King deposit appears to occur along the same north trending fault system as the one that is associated with mineralization in the Ptarmigan Mine and was a massive sulphide Pb-Zn-Ag-Ba-Cu replacement possibly strataform deposit with minor gold values.

8.0 EXPLORATION

In 2009, Rupestris Mines Inc. completed surface (~ 25 ha) and underground (~250 m) geological mapping in the Ptarmigan Mine area, prospecting, a 6.3 line-km ground IP magnetic susceptibility survey, an AeroTEM airborne TDEM survey, trenching, and 1388.2 m of diamond drilling.

8.1 Geological Mapping and Prospecting

Mt. Nelson Formation dolomite, argillite and shale units are deformed throughout the Property into large scale (100's of meters) amplitude tight folds. Cutting the large scale folds are a pair of north striking and steeply east dipping normal faults which host narrow Ag-Au-Pb-Zn-Cu bearing quartz veins. These normal faults have tight drag folds associated with them as well as intense silicification and Fe-carbonate alteration of the surrounding rocks. The silicification is so intense that historical geological maps and the regional geology maps have identified quartzite units in the area around the Ptarmigan Mine where they are actually silicified dolomite. This has lead to numerous geological mapping issues that will need to be addressed in further field seasons and suggest significant hydrothermal activity has occurred along the north trending normal faults.

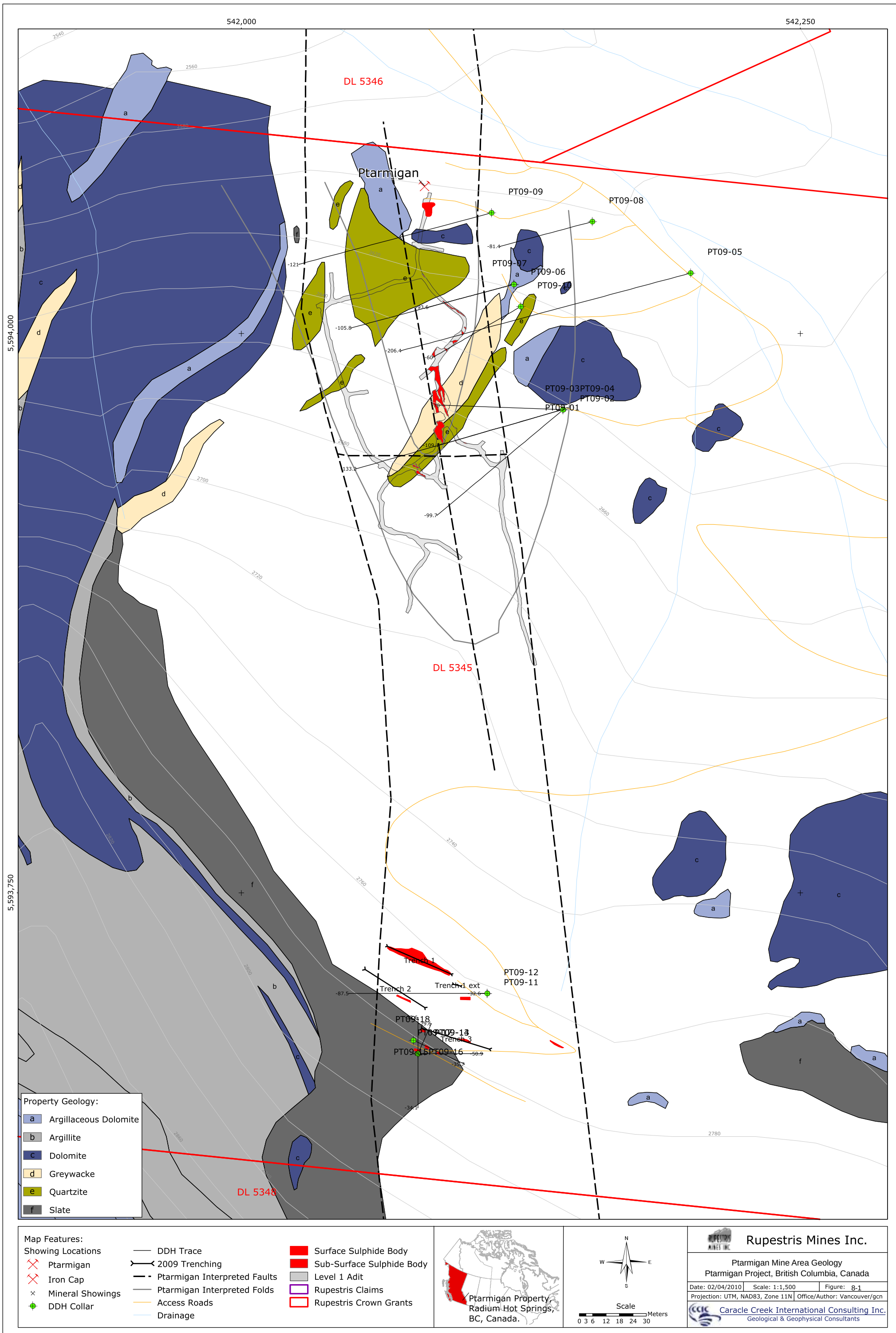
Preliminary prospecting traverses north of the Ptarmigan Mine has shown that the two normal faults which occur in the Ptarmigan Mine continue northward up and over the north ridge. Rocks surrounding these faults appear to be highly silicified along their entire length indicating that there is significant exploration potential north along these faults.

Geological mapping has shown that there is an anticline within the Ptarmigan Mine and that the silver bearing pyrite bodies in the Mine occur within an argillaceous dolomite unit (dark grey dolomite) along the nose of this fold. Folding within the Ptarmigan Mine appears to be the result of drag folding along the north trending normal fault structures which host the mineralized veins and are the locus for hydrothermal alteration in the area.

Figure 8-1 is the surface geology map in the Ptarmigan Mine area and depicts the location of drill holes and trenches completed in 2009.

8.2 Underground Mapping

A 1" = 20' scale geology map produced in 1963 was used as a base for mapping as it contained references to survey plugs that could be used for taping distances, however there were scaling errors and some geological mapping errors noted during the 2009 program. Map scales were converted from Imperial to Metric; a UTM grid was set up using the GPS location of the adit for reference. Mapping of Ptarmigan Mine Level 1 was facilitated by the washing of mine tunnels and raises using high pressure drill water made available at the end of the drilling program. Prior to washing much of the detail of structures and veins was completely obscured either by dust from blasting or frost and ice.

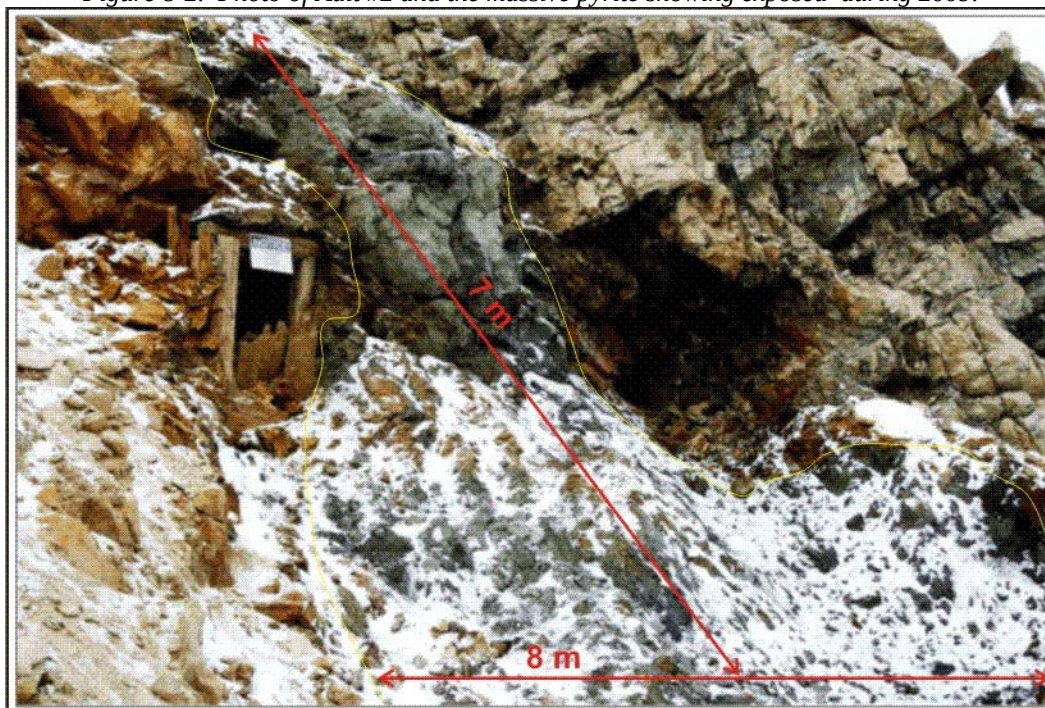


Detailed geological mapping of the workings identified several structural controls which are important factor in concentrating mineralization and in the displacement of rock units and mineralized bodies. Most significantly are two north striking and steeply east dipping (45 to 75°) normal faults (the “West” and “East” faults) which host silver-gold bearing quartz carbonate veins and “bookend” the pyrite replacement mineralization within the Mine. Mapping indicates that the silver-rich massive pyrite mineralization in the Mine extends over a 100 m north-south strike and is focused within an antiformal drag fold associated with normal movement along the East and West Faults. Numerous minor cross-cutting faults occur between the East and West Fault which cause movement on the 1 to 25 m scale and offset the pyrite mineralization in many locations. These minor faults appear to be truncated by the East and West Faults as these secondary features do not offset or cut these primary faults and these minor faults are not common beyond the confines of the East and West Faults.

Pyrite mineralization is complexly shaped and discontinuous with numerous lenses, veins and “folded” zones (Figure 7-1). Results from pyrite bodies in Level #1 indicate that there are two distinct levels of silver-gold mineralization occur within the pyrite. Typically the pyrite bodies contain 7 to 76 g/t Ag (low grade) but there is a second population of assays which range from 177 to 2471 g/t Ag (high grade) and average approximately 760 g/t Ag from the chip samples collected in 2009. Gold grades are relatively consistent throughout the pyrite between 0.15 and 1.1 g/t Au. The high grade silver zones appear occur along a central axis of the pyrite bodies in Level #1. There appears to be a central zone within the pyrite body in Level #1 which trends parallel to the overall trend of the pyrite body (and parallel to the north trending normal faults) where the higher grade samples occur. Drilling below Level#1 did not intersect high grade silver mineralization even though intersecting several zones of massive pyrite, hence the nature of the high grade silver observed in the Level#1 tunnels needs to be explained in further field work in order to successfully predict where it may extend.

Pyrite exposed on surface at the entrance to Adit #2, returned an average grade of 160 g/t Ag and 0.9 g/t Au over 3 m. At season end the showing was stripped by excavator to reveal a massive pyrite zone extending at least 7 m vertical and widening to 8 m in width at the base (Figure 8-2). The new exposure was not sampled due to early snowfalls.

Figure 8-2. Photo of Adit #2 and the massive pyrite showing exposed during 2009.



8.3 Trenching

Surface prospecting identified an area of anomalous iron staining and Fe-rich carbonate rocks near the head of the Mine valley similar to those seen at Ptarmigan Mine Adit #2 massive pyrite exposure. Further investigation revealed several massive pyrite boulders and the decision to trench the area was made. A total of three trenches were excavated for a total length of 40 m.

A first trench (T-1) in the area of pyritic talus (Upper Ptarmigan area) exposed a 25 m zone of massive pyrite within bedrock. Trenching was limited to 2-3 m depth by alpine permafrost. Due to sloughing and permafrost cover the horizontal chip sample covered only 16.7 m returning an average 13 g/t Ag and 0.24 g/t Au. A 3 m vertical chip sample averaged 12 g/t Ag and 0.32 g/t Au.

A second trench (T-2) exposed a discontinuous but conformable 20-30 cm thick bed of massive pyrite surrounded by a halo of intense oxidation. A similar in appearance 7 m thick (E-W) layer of pyrite was subsequently exposed in a drill site access road 40 m east of T-2. A chip sample taken along the bed returned 7 g/t Ag and 0.23 g/t Au over 7 m. (Table 10-3).

No samples were collected from trench 3.

Table 8-1. Geochemical highlights from underground and surface sampling in 2009.

Trench/Tunnel/ Sample No.	Description	Length (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)
Surface Chip Samples							
Trench 1 East	Pyrite body (width)	2.0	0.20	13	0.00	0.09	<0.01
Trench 1 West	Pyrite body (length)	13.0	0.28	13	0.00	0.10	0.01
Level 2 shaft	Pyrite body (width)	3.0	0.86	154	0.01	0.05	0.01
Underground Chip Samples							
Level 1	Pyrite body (width)	3.0	0.84	51	0.03	0.03	0.01
Level 1	Pyrite Body (length)	12.0	0.47	64	0.02	0.05	0.01
Level 1	Pyrite Body (width)	1.5	0.94	2471	1.46	0.14	0.16
Level 1	Pyrite Body (width)	1.5	0.28	189	0.09	0.08	0.01
Level 1	Pyrite Body (width)	1.5	0.28	189	0.09	0.08	0.01
Level 1	Pyrite Body (width)	2.0	0.61	1050	0.49	0.57	0.05
Level 1	Pyrite Body (width)	1.5	0.72	216	0.13	0.04	0.01
Level 1	Pyrite Body (length)	6.0	0.37	383	0.12	0.17	0.01
Level 1	Pyrite Body (width)	0.4	0.16	116	0.05	0.04	0.01
Level 1	Pyrite Body (width)	9.0	0.15	312	0.04	5.48	0.02
Level 2	East Vein (length)	5.0	0.41	97	0.05	0.06	0.01
Level 1	Pyrite Body (width)	1.2	0.43	28	0.00	0.03	<0.01
Grab Samples							
66369	Ridge top		0.40	1859	0.18	62.37	0.69
66371	Iron Cap area		0.27	875	0.30	11.04	0.82
66372	Iron Cap area		0.25	220	0.02	5.77	0.16
66373	Iron Cap area		0.36	292	0.07	3.77	0.30
66317	Level 1 west vein		1.73	19	0.01	0.02	0.01
66318	Level 1 west vein		1.17	19	0.01	0.01	0.01
66322	Level 1 east vein		0.05	515	0.03	9.75	0.02
66327	Level 1 east vein		1.67	118	0.06	0.05	0.01
66328	Level 1 east vein		1.83	172	0.07	0.12	0.01
66329	Level 1 east vein		1.33	365	0.13	0.71	0.01
66330	Level 1 east vein		1.73	1821	0.73	0.23	0.04

**"width" refers to chip samples taken across strike and "length" to chip samples along strike.*

8.3.1 Induced-Polarization Survey

An induced polarization (IP) survey conducted by Scott Geophysics Ltd. comprising 5.05 line-km was performed encompassing the Ptarmigan Mine workings from August 2 to 6, 2009. Following the prospecting discovery of the Upper Ptarmigan massive sulphide zone to the south, a second 1.23 line-km of IP survey, essentially an extension of the first, was conducted from October 5 to 7, 2009. Early season heavy snowfalls prevented completion of the planned survey coverage.

The pole dipole array was used for the IP survey with an “a” spacing of 25 metres at “n” separations of 1 to 5. The on-line current electrode was to the west of the potential electrodes on all survey lines.

The triangular filtered first to fifth separation plan maps of the chargeability and resistivity data (Figures 8-3 and 8-4) show that the known pyrite zones are associated with resistivity lows (i.e. are conductive) and seem to appear on the flanks of chargeability highs. Pyritic shale/argillaceous dolomite units which appear to host the pyrite mineralization also show up as in the IP surveys as resistivity lows but are also chargeability highs. The large coincident high chargeability and low resistivity area which extends south of the pyrite zones in the trenches are likely mainly due to the pyritic argillite in this area. As this pyritic argillaceous dolomite is the host to all of the silver bearing pyrite zones in the area this southern anomaly is an excellent exploration target but specifically where the chargeability is low.

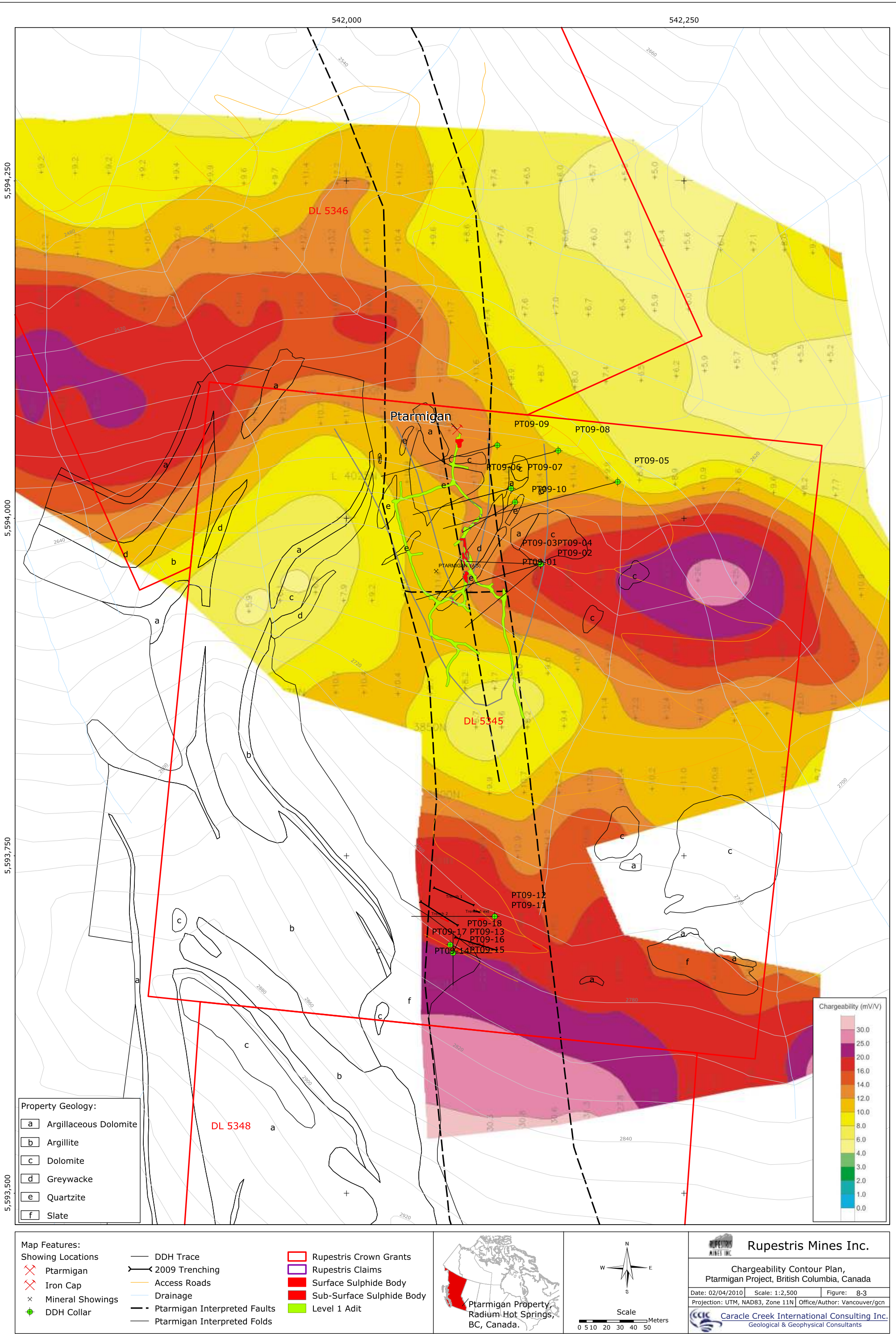
8.4 AeroTEM Survey

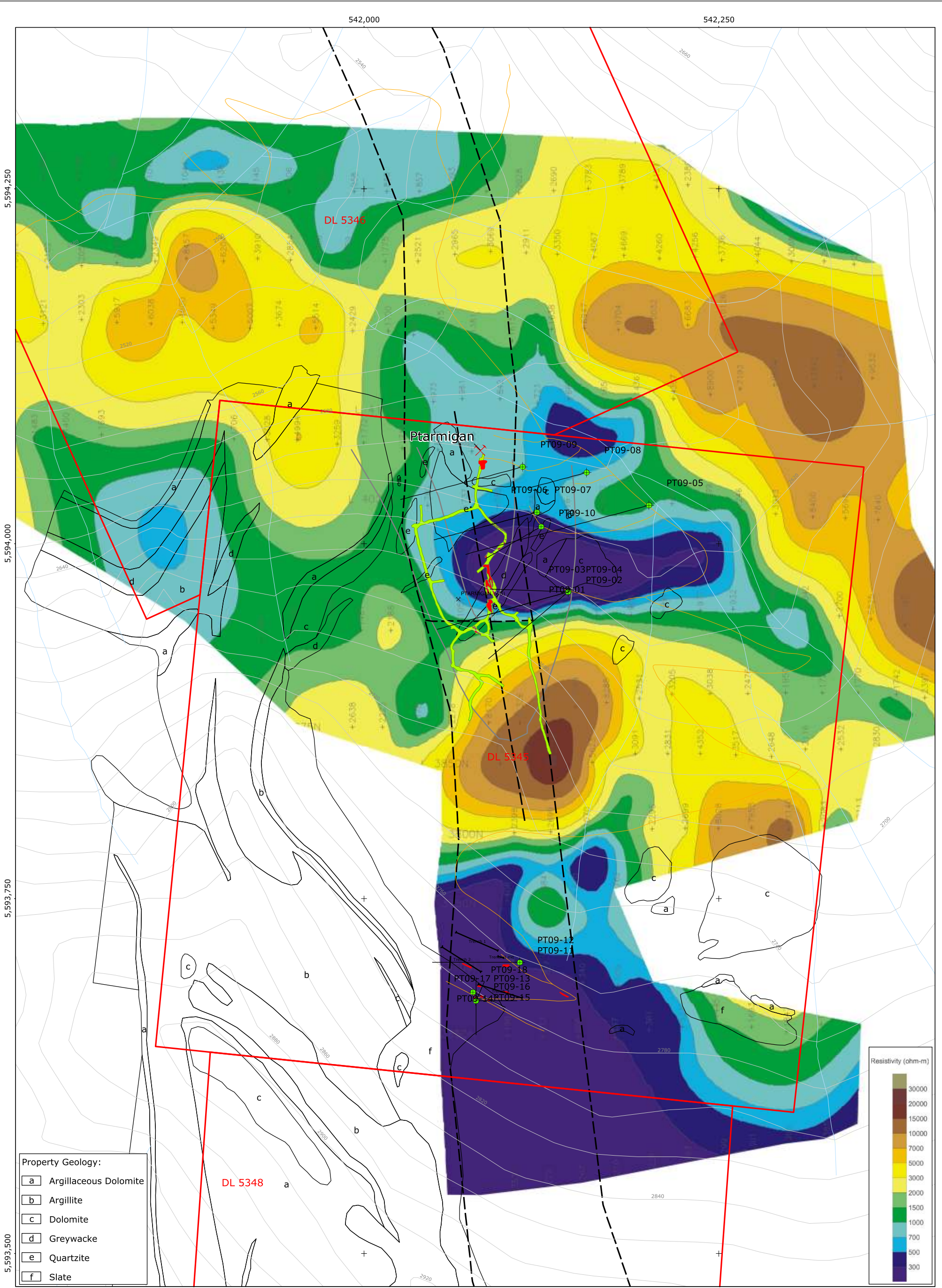
An airborne time-domain electro-magnetic survey was flown over the Ptarmigan Mine area in mid-December by Aeroquest International (“Aeroquest”) using their exclusive AeroTEM III time domain helicopter electromagnetic system in conjunction with a high-sensitivity cesium vapour magnetometer. Ancillary equipment included a real-time differential GPS navigation system, radar altimeter, video recorder, and a base station magnetometer. Full wave form streaming EM data was recorded at 36,000 samples per second. The streaming data comprised the transmitted waveform, and the X component and Z component of the resultant field at the receivers.

The airborne geophysics covered a block measuring 3,000 m east-west by 2,000 m north-south with 144 line-km of survey flown at 50 m line spacing and in an E-W flight direction.

The pyrite bodies located within the Ptarmigan Mine and in the trenches south of the Mine were anticipated to yield a conductive response in the AeroTEM survey. The Mine and the showings are actually in conductivity lows rather than highs (Figure 8-5) which suggests that these pyrite bodies are not large enough or continuous enough to give a response. Also it is likely the intense silicification associated with the alteration around the N-S oriented normal faults causes the rocks to be resistive. Overall, the AeroTEM survey appears to be dominated by the conductive response of shale and argillaceous dolomite units and obscures the more subtle responses from pyrite bodies in the Ptarmigan Mine Area.

Several large conductive areas were defined east of the Ptarmigan Mine area which are likely shale or argillaceous dolomite units. These are prospective areas due to the fact the silver bearing massive pyrite





Property Geology:

a	Argillaceous Dolomite
b	Argillite
c	Dolomite
d	Greywacke
e	Quartzite
f	Slate

Map Features:

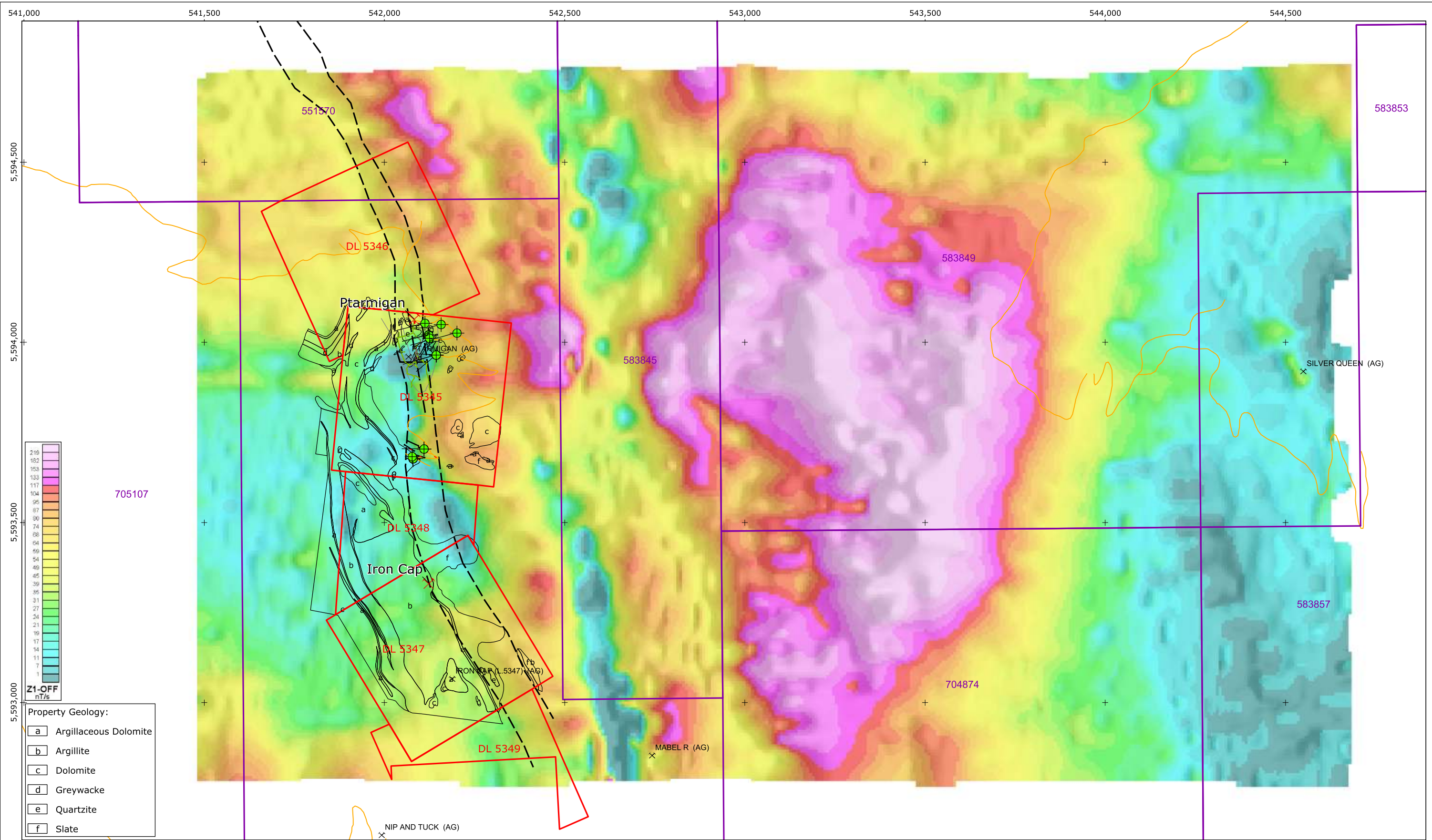
Showing Locations	DDH Trace	Rupestris Crown Grants
Ptarmigan	2009 Trenching	Rupestris Claims
Iron Cap	Access Roads	Surface Sulphide Body
Mineral Showings	Drainage	Sub-Surface Sulphide Body
DDH Collar	Ptarmigan Interpreted Faults	Level 1 Adit
	Ptarmigan Interpreted Folds	

Ptarmigan Property,
Radium Hot Springs,
BC, Canada.

Scale
0 5 10 20 30 40 50 Meters

Rupestris Mines Inc.
Resistivity Contour Plan,
Ptarmigan Project, British Columbia, Canada
Date: 02/04/2010 Scale: 1:2,500 Figure: 8-4
Projection: UTM, NAD83, Zone 11N Office/Author: Vancouver/gcn

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- Property Geology:
- a Argillaceous Dolomite
 - b Argillite
 - c Dolomite
 - d Greywacke
 - e Quartzite
 - f Slate

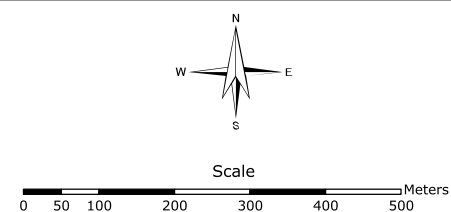
Map Features:

Showing Locations

- × Ptarmigan
- × Iron Cap
- × Mineral Showings
- DDH Collar

- DDH Trace
- 2009 Trenching
- Access Roads
- Ptarmigan Interpreted Faults
- Ptarmigan Interpreted Folds

- Rupestris Crown Grants
- Rupestris Claims
- Surface Sulphide Body
- Sub-Surface Sulphide Body
- Level 1 Adit



Rupestris Mines Inc.

AEROTEM Z1-OFF,
Ptarmigan Project, British Columbia, Canada

Date: 02/04/2010	Scale: 1:10,000	Figure: 8-5
Projection: UTM, NAD83, Zone 11N Office/Author: Vancouver/gcn		

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units tend to be hosted by these units.

8.5 Drilling

A total of 18 drill holes were completed in 2009 for a total of 1388.2 m. Holes targeted two main areas the Ptarmigan Mine area (10 holes) and the newly discovered Upper Ptarmigan showing (8 holes; Figure 8-1). Table 8-1 contains the geochemical highlights from the drilling program and drill sections are provided in Appendix 3.

8.5.1 Drill Results from Ptarmigan Mine Area

Most holes were designed to test the pyrite bodies observed in the Level #1 working of the Ptarmigan Mine to depth. Two holes were also drilled to test the source of a magnetic high which was modeled to occur below the Mine.

PT09-01

Hole PT09-01 was collared approximately 25 m south of the southernmost exposure of pyrite and 10-20 m below Level #1. It was drilled at an azimuth of 254 and dipped -46°. This hole intersected argillite, dolomite and argillaceous dolomite units throughout and encountered the East Fault at 33.13 to 33.44 m. A zone of massive pyrite was cut between 63.25 and 63.75 m and three 0.50 m thick semi-massive pyrite zones at 69.20, 75.60 and 76.60 m down the hole. The West Fault was intersected at 110.75 m down the hole. No significant assay results were returned from any of the veins or pyrite zones.

PT09-02

This hole was collared in the same location and drilled at the same azimuth as PT09-01 but at a steeper - 60° angle to test the pyrite mineralization below hole 01. The East fault was intersected at 41.82 m but no appreciable massive pyrite mineralization was encountered. This hole was stopped at 109.10 m depth.

PT09-03

Due to terrain issues hole PT09-03 was collared in the same location as 01 and 02 but at an azimuth of 272 in order to test pyrite mineralization ~ 25 m along strike to the north of where hole 01 intersected the pyrite body. The East Fault was intersected between 47.80 and 53.33 m and a heavily veined section 1.50 m long returned 0.12 g/t Au and 5 g/t Ag. A small 0.40 m zone of massive pyrite was cut between 58.70 and 59.10 m which returned 0.13 g/t Au. This hole was stopped at 78.00 m where it intersected historical workings below Level 1.

PT09-04

PT09-04 was collared on the same drill pad at the previous three holes and directed southward to intersect 25 m further down-plunge (south) pyrite mineralization from the PT09-01. This hole was drilled at an azimuth of 230, at a dip of -45 and to a total length of 99.70 m. It cut two fault zones likely to be the East Fault between 45.40 and 51.50 m which included a 0.90 m section at the end of this interval which was highly quartz-carbonate veined but returned only minimal gold or silver assay values. Three massive to semi-massive pyrite zones were intersected below (and west) of the East Fault which returned 0.2 g/t Au over 2.25 m (60.00-62.25 m), 0.06 g/t Au and 6 g/t Ag over 0.35 m (70.25-70.60 m) and 0.68 g/t Au and 5 g/t Ag over 0.80 m (84.35-85.15 m).

PT09-05

This hole was intended to drill a magnetic high modeled to be ~100 m vertical depth below the Ptarmigan Mine and possibly represent a pyrrhotite body. It was drilled at an azimuth of 255 and a dip of -45 to a total of 206.40 m depth. This hole intersected the East Fault at 108.50 m and immediately adjacent to this fault was a zone of highly carbonate altered mafic sill between 108.50 to 119.30 m which is very magnetic. An argillaceous dolomite was intersected between 141.40 and 167.60 m but no significant mineralized zones occurred within this hole.

PT09-06

Hole PT09-06 was intended to test the pyrite body in Level 1 below its northernmost margin in the workings. It was drilled at an azimuth of 255, and a dip of -52 for a total of 105.8 m. This hole did not appear to cut the East Fault and may have been set up just west of it. Several massive to semi-massive pyrite zones were cut within argillaceous dolomite which occurred between 16.78 and 37.14 m. Significant assays returned from these sulphide zones include 0.49 g/t Au and 4 g/t Ag over 0.36 m, 0.32 g/t Au and 4 g/t Ag over 3.46 m, and 0.28 g/t Au and 2 g/t Ag over 0.99 m.

PT09-07

This hole was collared in the same location as PT09-06 and drilled in the same direction but at a dip of -65 to a total depth of 90.5 m. PT09-07 was intended to drill underneath the pyrite mineralization observed in hole 06. The argillaceous dolomite unit was cut between 14.7 and 30.15 m and contained two semi-massive pyrite zones. These returned 0.25 g/t Au and 3 g/t Ag over 0.4 m and 0.36 g/t Au and 4 g/t Ag over 0.30 m.

PT09-08

Hole PT09-08 was drilled to test an IP conductor and the pyrite mineralization north and below of holes 06 and 07. It was drilled at azimuth 255, a dip of -60 and to a depth of 81.40 m. The argillaceous

dolomite was not intersected in this hole nor was there any mineralization. Several schistose zones were intersected which locally are pyritic and may have been the cause of the IP conductivity anomaly.

PT09-09

This hole was set up east of Adit #2 and designed to test the massive pyrite zone which outcrops there to depth. It was drilled at an azimuth of 255, a dip of -45 and to a depth of 121 m. It encountered argillaceous dolomite between 71.30 and 104.00 m down the hole which contained one semi-massive pyrite zone. This zone returned 0.59 g/t Au over 0.6 m. The West Fault was intersected at 104.00 to 107.00 m and contained some quartz-carbonate-sulphide vein material which returned 0.39 g/t Au and 5 g/t Ag over 1 m.

PT09-10

Hole PT09-10 was collared between the set-ups for PT09-06 and PT09-09 and was intended to test the continuity of pyrite mineralization between these two holes. It was drilled at an azimuth of 255, a dip of -45 and to a depth of 60 m. An argillite zone (possibly argillaceous dolomite) was intersected between 20.0 and 42.36 m and contained several semi-massive to massive pyrite zones. These pyrite zones returned 0.12 g/t Au over 0.52 m, 0.31 g/t Au and 11 g/t Ag over 0.43 m, 0.46 g/t Au and 7 g/t Ag over 0.67 m, 0.28 g/t Au over 0.75 m, and 0.51 g/t Au and 3 g/t Ag over 0.35 m.

Table 8-2. Geochemical Highlights from the 2009 drilling on the Ptarmigan Property.

Hole/Trench No.	From (m)	To (m)	Length (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)
Ptarmigan Mine Area								
PT09-01	116.56	117.20	0.64	0.29	11	0.010	0.005	0.005
PT09-03	49.40	50.90	1.50	0.12	5	0.003	0.005	0.005
PT09-04	84.35	85.15	0.80	0.68	5	0.003	0.005	0.005
PT09-06	23.68	24.04	0.36	0.49	4	0.002	0.010	0.005
PT09-06	29.10	32.56	3.46	0.32	4	0.003	0.007	0.005
PT09-06	36.15	37.14	0.99	0.28	2	0.003	0.005	0.005
PT09-07	21.75	22.15	0.40	0.25	3	0.002	0.005	0.005
PT09-07	24.40	24.70	0.30	0.36	4	0.003	0.010	0.005
PT09-09	106.00	107.00	1.00	0.39	5	0.014	0.005	0.010
PT09-10	32.17	32.60	0.43	0.31	11	0.017	0.040	0.005
PT09-10	33.40	34.07	0.67	0.46	7	0.008	0.020	0.005
PT09-10	42.00	42.35	0.35	0.51	3	0.003	0.010	0.005
Upper Ptarmigan Area								
PT09-11	9.40	10.90	1.50	0.17	7	0.002	0.030	0.005
PT09-13	9.55	16.47	6.92	0.26	53	0.027	0.194	0.005
PT09-18	11.00	12.80	1.80	0.15	12	0.004	0.148	0.005
PT09-18	14.30	14.65	0.35	0.24	23	0.035	0.770	0.005

8.5.2 Drill Results from the Upper Ptarmigan Showing

PT09-11

PT09-11 was the first of 8 short holes drilled in to test the upper Ptarmigan showing which was discovered during the drilling program. This hole was drilled at an azimuth of 270, a dip of -45 and a length of 87.50 m and intended to test pyrite mineralization observed in trench T-1 to depth. The entire hole was within argillaceous dolomite and with a pyritic section occurring between 4.50 and 15.0 m depth. Within this zone there were several massive to semi-massive pyrite zone which contained weak silver and gold assay values with the highest assay value of 0.17 g/t Au and 7 g/t Ag over 1.5 m.

PT09-12

Collared in same location and drilled in the same direction as 11 but at a steeper dip, -85 and to a depth of 32.60 m. The entire holes was within argillaceous dolomite but only contained a few minor weakly pyritic intervals and negligible assay results.

PT09-13

This hole was intended to test directly below the pyrite mineralization observed in trench T-2. It was drilled at azimuth 090, at a dip of -55 and to a total depth of 50.9 m and was anticipated to cut the pyrite mineralization at approximately 40 m down hole. Instead a massive pyrite zone was intersected at only 9.55 m depth and continued to 16.47 m. This 6.92 m interval averaged 0.26 g/t Au and 53 g/t Ag and included a 1 m interval which returned 0.4 g/t Au and 169 g/t Ag.

PT09-14

PT09-14 was collared in the same location and drilled in the same 090 direction as 13 but at a steeper -80 dip. No pyrite zones were cut by this hole.

PT09-15

This hole was also collared on the same drill pad as 13 and 14 but at a different azimuth of 180 and a dip of -45 to a total depth of 34.1 m. Two massive pyrite intervals were intersected one 0.87 m and the other 1.02 m in length but returned low Ag or Au values.

PT09-16

PT09-16 was also drilled from the same pad as 13 and 14 at an azimuth of 360, a dip of -45 and to a total depth of 32.60 m. No significant mineralization was intersected.

PT09-17

PT09-17 was also drilled from the same pad as 13 and 14 at an azimuth of 024, a dip of -60 and to a total depth of 29.6 m. No significant mineralization was intersected.

PT09-18

This hole was collared 6 m north of holes 13 and 14 and drilled toward the southwest at an azimuth of 115 and dip of -45. It intersected a massive pyrite zone between 11.00 and 14.65m and a small zone lower down between 20.85 and 22.60 m. A total of 1.5 m of the 3.55 m upper pyrite zone core was spilled while transferring the core to the core boxes, however the remaining massive pyrite core above and below this missing section is consistent in silver and gold values and averages 0.17 g/t Au and 14 g/t Ag. The lower 1.75 m zone of massive pyrite returned 0.14 g/t Au and 6 g/t Ag.

Overall, drilling was successful in discovering the source of several geophysical anomalies and intersecting pyrite mineralization a depth below the Ptarmigan Mine Level workings and below the Upper Ptarmigan Showing. However, the drilling also demonstrated that the pyrite bodies are highly irregular and generally small pods or lenses which are not contiguous. Also, the silver grades are significantly lower than in the drill core versus the grade indicated by the surface and tunnel sampling.

9.0 INTERPRETATION AND CONCLUSIONS

This report's main purpose is to document the airborne geophysical, ground geophysical, trenching, surface and underground geochemical sampling, and drilling data collected by Rupestris Mines Inc. on the Ptarmigan Property in 2008 and 2009. The data was collected to advance the project by characterizing and determining the extent of silver-gold-lead-zinc-copper mineralization in the Ptarmigan Mine area and determine the mineral potential of the rest of the property.

Mineralization in the Ptarmigan Mine occurs in two forms as (1) Ag-Au-Cu-Pb-Zn bearing quartz-pyrite veins and high-grade shoots (Silver-Base Metal Epithermal Veins) and (2) massive to semi-massive gold-silver bearing pyrite pods and lenses contained within an argillaceous dolomite. Below are the observations and conclusions reached from the data collected thus far:

1. The silver-gold bearing high grade veins mined in the past occur along two north trending, steeply east dipping normal faults. These faults are likely Tertiary in age as they cut the Cretaceous age folds and thrust faults and continue unperturbed for several kilometres.
2. Mapping shows that drag folds are common along the north trending Tertiary faults due to the normal motion along them.

3. Intense silicification grading outward to Fe-carbonate alteration halos these faults. Locally, silicification completely replaces host dolomite units and grades into dolomite over 5-25 m away from the faults; this has been mis-mapped by historical workers as “quartzite”.
4. The silver-gold bearing veins along these faults are rarely more than 20 cm wide and pinch out completely in many locations. Also, grab samples and drill hole results show that their gold and silver contents are generally low and only very locally reach significant levels. Hence, these veins appear to be a poor exploration target.
5. Massive to semi-massive pyrite layers, lenses, and irregularly shaped pods occur within a dark gray argillaceous dolomite to dolomitic argillite within the Ptarmigan Mine has produced highly variable silver assay values from grab and chip sampling (10 to 2410 g/t Ag) and consistent gold assay values between 0.26 to 1.06 g/t Au.
6. High grade silver assays in the massive pyrite body within the Level #1 workings appears to occur along a central north-south oriented axis within the pyrite zone.
7. Samples of massive to semi-massive pyrite zones from trenches in the Upper Ptarmigan showing returned consistent gold grades (0.13 to 1.1 g/t Au) similar to those from the Ptarmigan Mine but lower silver values between 2 and 45 g/t Ag.
8. Drilling in the Ptarmigan Mine area and in the Upper Ptarmigan area intersected several zones of massive to semi-massive failed to intersect any of the spectacular silver grades observed in the Ptarmigan Mine. The distribution and cause of the high-grade silver mineralization in the Ptarmigan Mine area needs to be better understood and should be addressed in upcoming field programs.
9. Sampling and drilling in the Upper Ptarmigan area shows a general increase in Pb content within the pyrite zones (up to 0.77% over 0.35 m in hole PT09-18) and a fairly consistent level of Ag in the ~ 10 to 50 g/t range which is typical of the mineralization in the Mineral King area which historically produced Pb-Zn-Ag-Ba ore that contained approximately 27 g/t Ag, 1.78% Pb.
10. Ground IP data around the Ptarmigan Mine appears to show conductivity associated with the pyrite zones as well as conductivity associated with pyritic shale/dolomitic argillite units. Therefore caution must be used with interpreting this data and picking targets based solely on conductive anomalies. Chargeability maps also mimic the location of the pyritic shale units but the pyrite zones known tend to occur in areas of moderate chargeability.
11. The AeroTEM data is also dominated by the influence of the pyritic shale/argillaceous dolomite formations in the area and it does not appear to detect the known massive pyrite. This may be due to a discontinuous nature of the pyrite zones and/or due to the large affect from the shale/argillaceous dolomite formations in the area. In fact, the Ptarmigan Mine and the Upper

Ptarmigan areas are located in conductivity lows and this may be due to resistive silicified rocks that occur along the north trending normal faults and may suggest areas of increased hydrothermal activity.

12. The gradient aeromagnetic survey flown over the Ptarmigan Property also does not directly detect pyrite mineralization however it is able to delineate some of the major geological structures and formations in the area and shows the continuity of the north trending faults which are associated with silver mineralization on the Property.

It is clear that the most productive style of mineralization in the district is the carbonate replacement mineralization (i.e. Mineral King and Paradise deposits) and the pyrite replacement zones which occur in the Ptarmigan Mine represent a similar style of mineralization and in a similar geological setting. At this point the Property is still in an early exploration phase, but as most historical exploration in this area was focussed toward high-grade vein mineralization and not the massive sulphide mineralization the exploration potential of the area is great. Also, the discovery of additional pyrite mineralization south of the Ptarmigan Mine during the drilling program, the Upper Ptarmigan showing, demonstrates that this pyrite mineralization is more widespread than previously thought and the considerable exploration potential on the Property for more of these zones.

The north trending fault system that cuts through the Ptarmigan Mine and is associated with all of the mineralization on the Property extends for 2.5 km south and ~7 km north from current exploration work for a total of 9.5 km of unexplored strike length. Furthermore, there is evidence that suggests a parallel north trending fault system may occur on the Property east of the Ptarmigan Mine (i.e. the Silver Queen showing and coincident aeromagnetic north trending linear features), which may lead to another 9 km of strike length to explore.

10.0 RECOMMENDATIONS

In order to develop additional drilling targets the pyrite mineralization in the Level #1 workings must better understood and characterized. Systematic chip sampling of the pyrite zones and detailed structural mapping in Level #1 should be undertaken with a particular focus on understanding (1) the distribution of high grade silver domains within the pyrite bodies, (2) the structural habit and morphology of the pyrite mineralization, and (3) the reason for the high-grade silver mineralization. Ultimately, this work will provide a series of exploration parameters with which Rupestris can use to develop a geological model/framework to explore the remainder of the Property more efficiently.

Geochemical silt sampling every 500 m along major drainages with follow up soil sampling is recommended throughout the Property to develop new targets for prospecting and ground geophysics.

IP has been proven to be effective in delineating geology, structure and pyrite mineralization. The IP survey conducted in 2009 should be continued south of the current grid to the Iron Cap showing as well as detailed prospecting and trenching along the north trending faults both north and south of the Ptarmigan Mine. These north trending faults appear to be critical to the location of all the Ag-Pb-Zn showings in the region and mapping these faults and prospecting along them on the Property is highly recommended. Both sulphide bodies as well as silicified zones should be sampled to ensure both the epithermal and replacement targets are explored for as it appears both styles of mineralization occur together in many showings in the district.

There are currently some drilling targets remaining in the Ptarmigan Mine area. Depending on the results of the detailed work between the Ptarmigan Mine and the Iron Cap showing additional drilling may be warranted in 2010 and ~ 2000 m is anticipated.

11.0 2009 EXPLORATION EXPENDITURES

The 2009 exploration program cost approximately as summarized in Table 11-1.

Table 11-1. Exploration Expenditures

Work Category/ Contractor	Details	Dates	No.	Units	*Unit Cost	Amount
Accommodation, Food, and Travel						
Hotel		29-Sep-09	1.0	days	\$ 140.12	\$ 140.12
B and G Elliott	Trailer rental	Sept 2 to Oct 8, 09	32.0	days	\$ 123.51	\$ 3,952.39
Meals		Sept 2 to Oct 8, 09	69.0	days	\$ 52.09	\$ 3,594.29
R. Didur	Truck Rental	Sept 2 to Oct 8, 09	32.0	days	\$ 100.00	\$ 3,200.00
Fuel		Sept 2 to Oct 8, 09				\$ 2,753.97
Airfare	R. Krockner, and S.Wetherup	Sept 3, 11 & Oct 9, 09				\$ 1,392.73
Field Labour						
CCIC-Management (S. Wetherup)	Geological mapping and drill supervision	Sept 4 to 11, 09	8.0	days	\$ 1,000.45	\$ 8,003.60
CCIC-Geologist (R. Krockner)	Core logging and sampling	Sept 3 to Oct 9, 09	24.5	days	\$ 481.50	\$ 11,796.75
Robert Didur	Geological mapping and drill supervision	Sept 2 to Oct 8, 09	32.0	days	\$ 800.00	\$ 25,600.00
Seel Forest Products	general labour/core splitting/building core shack	Sept 2 to Oct 8, 09	537.0	hours	\$ 28.50	\$ 15,304.50
Equipment Rental						
Poitier Equipment	Core saw rental		1.0	month	\$ 375.20	\$ 375.20
R. Didur	Camp and field equipment		32.0	days	\$ 18.75	\$ 600.00
Geochemical						
Acme Labs	Rock and drill core analyses		128.0	samples	\$ 32.44	\$ 4,152.57
CDN Labs	20 Standards and 20 blanks		40.0	samples	\$ 9.59	\$ 383.49
Contracts						
Scott Geophysics	Ground IP-Mag survey (incl. processing)		6.6	line-km	\$ 4,076.69	\$ 26,702.31
Aeroquest	AeroTEM survey and processing	December 14, 09	144.0	line-km	\$ 318.16	\$ 45,815.34
Westcore Drilling	Drilling, mob, de-mob, labour and room/board	Sept 5-24, 09	1388.2	m	\$ 83.66	\$ 116,135.24
Seel Forest Products	Back hoe - trenching and road building/repair	Sept 2 to Oct 8, 09	111.7	hours	\$ 200.00	\$ 22,336.72
Seel Forest Products	Back hoe - mob-demob	Sept 1 and Oct 9, 09				\$ 4,761.90
Field Expenses and supplies						
Field Supplies	Sample bags. Flagging tape, pickets etc...					\$ 355.52
Seel Forest Products	Building materials for core shack, fuel for heat and generator					\$ 4,171.90
Report Writing						
CCIC-Management (S. Wetherup)	Report writing and data compilation		7.0	days	\$ 823.90	\$ 5,767.30
CCIC-GIS Tech (G. Nixon)	Map generation		5.0	days	\$ 417.30	\$ 2,086.50
R. Didur	Report writing and map generation		9.0	days	\$ 800.00	\$ 7,200.00
Courier/Shipping and Office						
Shipping						\$ 103.24
Total						\$ 316,685.58

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APPENDIX 1

Certificates of Authors

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CERTIFICATE OF AUTHOR

I, Stephen Wetherup, do hereby certify that,

1. I am the General Manager of and senior geologist for the geological consulting firm of Caracle Creek International Consulting Inc. (CCIC).
2. I am a graduate of the University of Manitoba (Winnipeg) with a B.Sc. Honours in Geology.
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC, #27770). I am a member of the Society of Economic Geologists, Geological Association of Canada, and the Vancouver Mining Exploration Group.
4. I have been operating a business as a geological consultant under my own name since June 2001 and under the name of Caracle Creek International Consulting Inc. since March 2004.
5. I have worked on the Property that forms the subject of this Technical Report on behalf of Rupestris Mines Inc. since August, 2008.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I have read NI43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
8. I am senior author and responsible for the preparation of the Technical Report titled "Assessment Report, Ptarmigan Property, British Columbia, Canada", dated April 30th, 2010.
9. I last visited the Ptarmigan Property, British Columbia from September 7 to 15th, 2009.

Dated this 30th Day of April, 2010.

Stephen William Wetherup,
BSc., P.Geo. (APEGBC, #27770)

APPENDIX 2

Drill Logs

Hole ID: PT09-01

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krocker
Azimuth:	254	Core Dia. BTW
Dip:	-46	Start: 07-Sep-09
Length (m):	113.2	End: 08-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	254	-46	
	133	254	-42	acid

Purpose: To test pyrite body 10-20 m below Level 1

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Au (g/t)	Ag (g/t)	
0	2.7	2.7	Overburden	Talus	0.00	2.70	2.7	Overburden		talus												B	60									
2.7	29.38	26.68	Argillite	Medium grey to black, fine grained, finely laminated, locally massive, strongly strained and distorted slaty argillite with abundant quartz carbonate veining. Finely laminated medium grey siltstone layers with black shale layers.Bedding 60 degrees TCA. Locally silicified. Local intervals of greywacke. Quartz carbonate veins 1mm to 8 cm wide, strong carbonate content, locally distorted and folded. Tight ptygmatic folding, 30 degree closure, locally crenulated. Local, 2-3% pyrite/calcite nodules and layers.	2.70	5.20	2.5	Argillite	100			2	7	5								FA	85									
					5.20	8.20	3	Argillite	100			1	1	2		1																
					8.20	11.30	3.1	Argillite	100			2	1									B	60	FLT	70							
					11.30	14.30	3	Argillite	70	Greywacke	30	3	1	1		1						B	70									
					14.30	17.40	3.1	Argillite	100			1	1	1						2		B	60									
					17.40	20.40	3	Argillite	60	Greywacke	40	2	1	1						1												
					20.40	23.50	3.1	Argillite	100			1	1	1				1				FA	85									
					23.50	26.50	3	Argillite	100			3	1	2																		
					26.50	29.38	2.88	Argillite	100			2	1	2	1							B	20									
29.38	29.7	0.32	Fault	This is a splay of the east vein.	29.38	29.70	0.32	Fault	100			1	10	2	1	1						FLT	80						Splay of east vein.			
29.7	33.13	3.43	Argillite	More strongly mineralized Argillite.	29.70	33.13	3.43	Argillite	100			6	1	3								B	55	FA	80							
33.13	33.44	0.31	Fault	This is a splay of the east vein. Vein is dolomite with quartz and black stringers within argillite.	33.13	33.44	0.31	Fault	100			1		1								FLT	30						Clay gouge.			
33.44	39.83	6.39	Argillite		33.44	34.14	0.7	Vein	100			5	20	2	5	1	1			3		Vein	70						East vein.	66001	0.03	<2
					34.14	35.70	1.56	Argillite	100			1			1																	
					35.70	38.70	3	Argillite	100			1	1	1	3	1						B	70									
					38.70	39.83	1.13	Argillite	100			1	1	1	1																	
39.83	54.08	14.25	Dolomite	Medium grey to olive greenish to white dolomite. Very strong silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish again. As the alteration regresses the rock begins to have a veiny/mottled texture comprised of dolomite with	39.83	41.00	1.17	Dolomite	100			4	1	1	2					0	4	2	FLT	85						66002	<0.01	<2
					41.00	42.30	1.3	Dolomite	100			1	1	1		1					2	FLT	85							66003	<0.01	<2
					42.30	42.55	0.25	Dolomite	100			1	15	50							3							Qtz-dol vein with black (tetrahedrite?, tourmaline?) stringers.	66004	<0.01	<2	
					42.55	44.00	1.45	Dolomite	100			1	2	3							4	2	B	65						66005	<0.01	<2
					44.00	45.50	1.5		100			1	1	2	1						4	2								66006	<0.01	<2
					45.50	47.00	1.5	Dolomite	100			2	1	2	1						4	3	B	65						66007	<0.01	<2
					47.00	48.50	1.5	Dolomite	100			1									5	4								66008	<0.01	<2
					48.50	50.00	1.5	Dolomite	100			1		2							5	4								66009	<0.01	<2
					50.00	51.00	1	Dolomite	100			2	5	35							4	4								66010	<0.01	<2
					51.00	52.50	1.5	Dolomite	100			1	5	40							4	3								66011	<0.01	<2
					52.50	54.08	1.58	Dolomite	100			1	20	35							4	3						Gradual lower contact into Argillaceous Dolomite.	66012	<0.01	<2	
54.08	100.84	46.76	Argillaceous Dolomite	Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining.. This unit hosts local massive sulphide zones. Veining is abundant and erratic and occurs in all directions.	54.08	55.50	1.42	Argillaceous Dolomite	100			5	5	10	10					0	3	2								66013	0.02	<2
					55.50	57.00	1.5	Argillaceous Dolomite	100			2	5	10	10						3	3								66014	<0.01	<2
					57.00	58.50	1.5	Argillaceous Dolomite	75	Greywacke	25	2	2	5	5					0	3	1								66015	<0.01	<2
					58.50	60.00	1.5	Argillaceous Dolomite	5	Greywacke	95	1	2	5		1					3	2						Greywacke interval within Argillaceous Dolomite unit.	66016	<0.01	<2	
					60.00	61.50	1.5	Argillaceous Dolomite	85	Greywacke	15	1	5	15		1					3	1								66017	<0.01	<2
					61.50	62.50	1	Argillaceous Dolomite	100			3	20	10							4									66018	<0.01	<2
					62.50	63.25	0.75	Argillaceous Dolomite	100			7	15	15		1					4	2						Adjacent to massive pyrite interval.	66019	0.01	<2	
					63.25	63.75	0.5	Massive sulphide	80	Argillaceous Dolomite	20	80	2																	66020	0.08	5
					63.75	65.25	1.5	Argillaceous Dolomite	100			2	10	10		1					4	2						Adjacent to massive pyrite interval.	66021	<0.01	<2	

Hole ID: PT09-01

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krockner
Azimuth:	254	Core Dia. BTW
Dip:	-46	Start: 07-Sep-09
Length (m):	113.2	End: 08-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	254	-46	
	133	254	-42	acid

PurposTo test pyrite body 10-20 m below Level 1

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Au (g/t)	Ag (g/t)						
100.84	110.85	10.01	Dolomite	Medium grey to olive greenish to white dolomite. Very strong silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish again.	65.25	66.25	1	Argillaceous Dolomite	100	Massive sulphide	25	6	10	10		1				4	2								66022	<0.01	<2						
					66.25	67.75	1.5	Argillaceous Dolomite	100			1	2	5					3													66023	<0.01	<2			
					67.75	69.20	1.45	Argillaceous Dolomite	100			5	2	5		1				2	1											66024	0.01	<2			
					69.20	69.70	0.5	Argillaceous Dolomite	75			25	1	2					2													Small interval of semi-massive sulphide.	66025	0.08	<2		
					69.70	70.70	1	Argillaceous Dolomite	100			3	1	1					1														66026	<0.01	<2		
					70.70	72.20	1.5	Argillaceous Dolomite	100	1	5	5		1			1																				
					72.20	75.60	3.4	Argillaceous Dolomite	100	3	5	10		1			1	1																			
					75.60	76.10	0.5	Argillaceous Dolomite	50	Semi-massive sulphide	50	20	10	20	20	2				1	2													Small semi-massive pyrite interval within Argillaceous Dolomite.	66027	0.01	<2
					76.10	76.60	0.5	Argillaceous Dolomite	100	5	2	5	5	1						1	2																
					76.60	77.10	0.5	Argillaceous Dolomite	75	Semi-massive sulphide	25	15	2	5	5	1				1	2																
					77.10	81.40	4.3	Argillaceous Dolomite	100	2	1	3	1							1																	
					81.40	84.40	3	Argillaceous Dolomite	100	1	1	3		1							1																
					84.40	87.50	3.1	Argillaceous Dolomite	100	1	2	5		1							1																
					87.50	90.50	3	Argillaceous Dolomite	100	1	1	2		1						1					1												
					90.50	93.60	3.1	Argillaceous Dolomite	100	1	1	3		1						1					1												
					93.60	96.60	3	Argillaceous Dolomite	100	1	1	3		1						1					1												
					96.60	99.70	3.1	Argillaceous Dolomite	100	1	2	7								2																	
					99.70	100.84	1.14	Argillaceous Dolomite	100	1	1	5		1						3	1																
					100.84	102.10	1.26	Dolomite	100	2		5								4	2																
					102.10	102.75	0.65	Dolomite	100	2		5								5	1																
					102.75	103.25	0.5	Dolomite	100	2	1	1	7							5	1						FLT	75						Fault from 103.17 to 103.21m, filled with calcite, possible tetrahedrite along margin?	66031	<0.01	<2
					103.25	104.75	1.5	Dolomite	100	2	1	2	1							5	2													Small local pinkish hues. Possible potassic alteration?	66032	<0.01	<2
					104.75	106.00	1.25	Dolomite	100	2	1	2	1							5	2																
					106.00	107.50	1.5	Dolomite	100	2	1	2	1							5	2																
					107.50	109.00	1.5	Dolomite	100	2	1	2	1							5	2																

Hole ID: PT09-01

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krockner
Azimuth:	254	Core Dia. BTW
Dip:	-46	Start: 07-Sep-09
Length (m):	113.2	End: 08-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	254	-46	
	133	254	-42	acid

PurposTo test pyrite body 10-20 m below Level 1

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Au (g/t)	Ag (g/t)
					109.00	110.75	1.75	Dolomite	100			2	1	2	1					5	2							Possible tetrahedrite veinlets within calcite veins?	66036	<0.01	<2
110.85	111.02	0.17	West vein	White, fine grained with abundant calcite, possible tetrahedrite?	110.75	111.10	0.35	west vein	100			2	1	30	10					5	2							Possible tetrahedrite veinlets?	66037	<0.01	<2
111.02	116.56	5.54	Dolomite		111.10	111.83	0.73	Dolomite	100			2	1	2	1					5	2								66038	<0.01	<2
					111.83	113.00	1.17	Dolomite	100			2	1	2	1					4	3								66039	<0.01	<2
					113.00	114.50	1.5	Dolomite	100			4	1	1	3					4	2							Possible tetrahedrite veinlets within calcite veins?	66041	<0.01	<2
					114.50	115.50	1	Dolomite	100			1	1	1	1					4	2								66042	<0.01	<2
					115.50	116.56	1.06	Dolomite	100			2	1	2	1					3	2								66043	<0.01	<2
116.56	133.2	16.64	Argillaceous Dolomite	Strong pyrite mineralization at the upper contact with the Dolomite unit. Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining. Veining is abundant and erratic and occurs in all directions.	116.56	117.20	0.64	Argillaceous Dolomite	100			7	1	1	1					2									66044	0.29	11
					117.20	120.25	3.05	Argillaceous Dolomite	100			1	1	1						1											
					120.25	124.10	3.85	Argillaceous Dolomite	100			3	10	20						2											
					124.10	127.10	3	Argillaceous Dolomite	100			3	10	15						2											
					127.10	130.10	3	Argillaceous Dolomite	100			3	5	10						2											
					130.10	133.20	3.1	Argillaceous Dolomite	100			3	5	10						2											

Hole ID: PT09-02

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krocker
Azimuth:	254	Core Dia. BTW
Dip:	-60	Start: 08-Sep-09
Length (m):	108.8	End: 09-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	254	-60	
	109.1	254	-56	acid

Purpose
To test pyrite body 25-35 below hole PT09-01

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)	
0	3.4	3.4	Overburden	Talus	0.00	3.40	3.4	Overburden	100	talus																						
3.4	39.88	36.48	Argillite	Medium grey to black, fine grained, finely laminated, locally massive, strongly strained and distorted slaty argillite with abundant quartz carbonate veining. Finely laminated medium grey siltstone layers with black shale layers.Bedding 70 degrees TCA. Locally silicified. Local intervals of greywacke. Quartz carbonate veins 1mm to 8 cm wide, strong carbonate content, locally distorted and folded. Local tight pygmatic folding, 30 degree closure, locally crenulated. Local, semi-massive to massive pyrite/calcite nodules and layers, these are	3.40	8.20	4.8	Argillite	100			3	1	1		1					2		B	70								
					8.20	11.30	3.1	Argillite	100			3	1	1							3								Local pink potassic alteration?			
					11.30	14.30	3	Argillite	70	Greywacke	30	3	1	1		1					3		FLT	55								
					14.30	17.40	3.1	Argillite	15	Greywacke	85	2									1											
					17.40	20.40	3	Argillite	30	Greywacke	70	1		1	1	1					1	Vein	10									
					20.40	23.50	3.1	Argillite	60	Greywacke	40	2	1	1							2											
					23.50	24.75	1.25	Argillite	90	Greywacke	10	3	1	1							2		B	65								
					24.75	26.25	1.5	Argillite	100			6	10	5							3								More strongly veined than previous intervals.	66045	<2	<0.01
					26.25	27.37	1.12	Argillite	100			2	1	1							2											
					27.37	27.87	0.5	Argillite				15	1	1							2		Vein	60								
					27.87	29.60	1.73	Argillite	100			3	1	1							2											
					29.60	31.53	1.93	Argillite	100			2							0		2											
					31.53	32.77	1.24	Argillite	100			2	1	1					1		1		FLT	70					Beginning of rubble fault zone with pyrite nodule and local cyp stringers within Argillite unit.	66047	<2	0.01
					32.77	33.77	1	Argillite	100			10	10	10							3		FLT	75								
					33.77	35.70	1.93	Argillite	100			2	2	2							3		vein	75								
					35.70	39.88	4.18	Argillite	100																					Gradual lower contact into Dolomite.		
39.88	41.82	1.94	Dolomite		39.88	41.75	1.87	Dolomite	100			3	1	1	1	1					2	2										
41.82	42.05	0.18	Fault	This is a splay of the east vein. Vein is dolomite with quartz and black stringers within argillite.	41.75	42.05	0.3	Dolomite		East vein		2	1	1	1	1					3	2	FLT	50					Fault, splay of the east vein, there are tetrahedrite stringers within calcite/dolomite gouge vein.	66049	<2	<0.01
					42.05	43.50	1.45	Dolomite	100			2	2	2	2						4	2										
					43.50	44.87	1.37	Dolomite	100			2	2	2	2						4	2										
44.87	45.87	0.65	Fault	This is a splay of the east vein. Vein is dolomite with quartz and black stringers within argillite.	44.87	45.87	1	Dolomite	100	Fault?		5	1	2	2	1					4	2							Possible splay of east vein fault? This sample is actually from 44.87 to 50.44m (the end of the box), the core cutter did not see the "end of sample" mark and went too far (his first day, he now knows that the longest samples are 1.5 m).	66052	<2	<0.01
					45.87	47.90	2.03	Dolomite	100			2	1	1	1	1					3	2										
					47.90	50.90	3	Dolomite	100			1	10	10	5	1					3	1										
					50.90	53.90	3	Dolomite	100			1	7	7	3	1					2	1										
					53.90	56.48	2.58	Dolomite	100			1	1	1	1						1											
56.48	64.5	8.02	Argillaceous Dolomite	Dark grey, fine grained, brecciated, strongly silicified argillaceous dolomite. Clasts are angular, 0.1 to 3 cm wide. Quartz-carbonate veins propagate in all directions.	56.48	60.00	3.52	Argillaceous Dolomite	100			1	1	1							1								Becciated texture, angular clasts 0.1 to 3 cm wide.			
					60.00	63.10	3.1	Argillaceous Dolomite	100			1	2	2							1											
					63.10	64.50	1.4	Argillaceous Dolomite	100			1	3	3							1											
64.5	108	43.5	Dolomite	Medium grey to olive greenish to white dolomite. Very strong silicification with Fe-Carb alteration. This interval is brecciated with angular clasts, 0.1 to 3 cm wide. It seems to be silicified argillaceous dolomite. Pyrite mineralization is locally blocky well developed crystals. The mineralized fold hinge is from approximately 75 to	64.50	66.10	1.6	Dolomite	100			1									4	1										
					66.10	69.20	3.1	Dolomite	100			3	1	1							3	1	FLT	40								
					69.20	72.20	3	Dolomite	100			3	1	1							3	2										
					72.20	75.75	3.55	Dolomite	100			3	1	1	1						3	2	FLT	40								
					75.75	77.25	1.5	Dolomite	100			3	1	1	1	1					2	2										

Hole ID: PT09-02

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	254	Core Dia.	BTW
Dip:	-60	Start:	08-Sep-09
Length (m):	108.8	End:	09-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	254	-60	
	109.1	254	-56	acid

PurposTo test pyrite body 25-35 below hole PT09-01

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
					77.25	80.00	2.75	Dolomite	100			2	1	1	1	1				3	2								66056	<2	<0.01
					80.00	81.50	1.5	Dolomite	100			3	2	2	1	1				4	2								66057	<2	<0.01
					81.50	83.00	1.5	Dolomite	100			4	2	2	1	1				5	2							This is probably the targeted mineralized hinge of the fold.	66058	<2	<0.01
					83.00	84.50	1.5	Dolomite	100			4	2	2	2	1				5	2							This is probably the targeted mineralized hinge of the fold.	66059	<2	<0.01
					84.50	86.00	1.5	Dolomite	100			4	2	2	1	1				5	1							This is probably the targeted mineralized hinge of the fold.	66060	<2	<0.01
					86.00	87.50	1.5	Dolomite	100			4	2	2	1	1				5	1							This is probably the targeted mineralized hinge of the fold.	66061	<2	<0.01
					87.50	89.00	1.5	Dolomite	100			4	2	2	1	1				5	1							This is probably the targeted mineralized hinge of the fold.	66062	<2	<0.01
					89.00	90.50	1.5	Dolomite	100			4	2	2	1	1				5	1								66063	<2	<0.01
					90.50	92.00	1.5	Dolomite	100			4	2	2	1	1				5	1								66064	<2	<0.01
					92.00	93.50	1.5	Dolomite	100			4	2	2	1	1				4	1								66066	<2	<0.01
					93.50	96.60	3.1	Dolomite	100			2	1	1	1	1				2	1										
					96.60	101.00	4.4	Dolomite	100			2	1	1	1	1				2	1	FLT	10								
					101.00	102.50	1.5	Dolomite	100			2	1	1	1	1				4	1							Garnitiferous dolomite, strongly silicified.	66067	<2	<0.01
					102.50	104.00	1.5	Dolomite	100			2	1	1	1	1				5	1							Garnitiferous dolomite, strongly silicified.	66068	<2	<0.01
					104.00	108.30	4.3	Dolomite	100			2	1	1	1	1				5	1	FLT	70								
108.3	109.1	0.8	Argillaceous Dolomite		108.30	109.10	0.8	Argillaceous Dolomite	100				1	1																	

Hole ID: PT09-03

<u>Location</u>		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

<u>Drill Hole Data</u>		Logged by:	R. Krockner
Azimuth:	272	Core Dia.	BTW
Dip:	-45	Start:	09-Sep-09
Length (m):	78	End:	10-Sep-09

<u>Survey</u>	Depth (m)	Az	Dip	Type
	0	272	-45	

Purpose: To test pyrite body west of PT09-01 & PT09-02

From (m)	To (m)	Int. (m)	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	3.4	3.4	Overburden		0.00	3.40	3.4	Overburden	100	talus																					
3.4	38.07	34.67	Argillite	Medium grey to black, fine grained, finely laminated, locally massive, strongly strained and distorted slaty argillite with abundant quartz carbonate veining. Finely laminated medium grey siltstone layers with black shale layers. Bedding 60 degrees TCA. Locally silicified. Local intervals of greywacke. Quartz carbonate veins 1mm to 8 cm wide, strong carbonate content, locally distorted and folded. Tight ptygmatic folding, 30 degree closure, locally crenulated. Local, 2-3%	3.40	5.20	1.8	Argillite	100			1	1	1						1		B	65								
					5.20	8.20	3	Argillite	100			1	1	1						1											
					8.20	11.30	3.1	Argillite	100			3	1	1		1				1											
					11.30	14.30	3	Argillite	50	Greywacke	50	2	1	1		1				1											
					14.30	17.40	3.1	Greywacke	85	Argillite	15	1	1	1						1											
					17.40	20.40	3	Argillite	75	Greywacke	25	4	2	2		1				2		B	70								
					20.40	23.50	3.1	Argillite	100			2	1	1		1				2											
					23.50	26.50	3	Argillite	100			2	1	1		1				2		Vein	80								
					26.50	27.95	1.45	Argillite	100			2	2	2		1				2											
					27.95	34.70	6.75	Fault	100	Argillite		3	5	2		1				3		FLT	85								

Hole ID: **PT09-03**

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	272	Core Dia.	BTW
Dip:	-45	Start:	09-Sep-09
Length (m):	78	End:	10-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	272	-45	

Purpose:	To test pyrite body west of PT09-01 & PT09-02
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
					66.10	69.20	3.1	Argillaceous Dolomite	100			3	2	4						2	1							Strong calcite alteration			
					69.20	72.20	3	Argillaceous Dolomite	100			2	2	3	5					2											
					72.20	75.30	3.1	Argillaceous Dolomite	100			1	5	7	3	1				3	2										
					75.30	78.00	2.7	Argillaceous Dolomite	100			1	2	1	1	1				2	2						The hole ended pre-maturely because the drilling intersected some underground workings.				

Hole ID: PT09-04

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	230	Core Dia.	BTW
Dip:	-45	Start:	11-Sep-09
Length (m):	99.7	End:	12-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	230	-45	
	99.7	230	-40	acid

Purpose: To test pyrite body down dip east of PT09-01 & PT09-02

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)	
0	3.4	3.4	Overburden	Talus	0.00	3.40	3.4	Overburden	100	talus	100																					
3.4	43.2	39.8	Argillite	Medium grey to black, fine grained, finely laminated, locally massive, strongly strained and distorted slaty argillite with abundant quartz carbonate veining. Finely laminated medium grey siltstone layers with black shale layers. Bedding 60 to 70 degrees TCA. Locally silicified. Local intervals of greywacke. Quartz carbonate veins 1mm to 8 cm wide, strong carbonate content, locally distorted and folded. Tight ptygmatic folding, 30 degree closure, locally crenulated. Local, semi-massive to massive pyrite/calcite nodules and layers 1 to 3 cm wide.	3.40	5.20	1.8	Argillite	100			3	5	4							2		B	70	FLT?	70			Local pink potassic (?) alteration within quartz-			
					5.20	8.20	3	Argillite	100			3	2								2		B	70								
					8.20	11.30	3.1	Argillite	100			5	1	2							2											
					11.30	14.30	3	Argillite	100			3	1	2							2											
					14.30	17.40	3.1	Argillite	25	Greywacke	75	1	1	1							2		Vein	55								
					17.40	20.40	3	Argillite	50	Greywacke	50	1	1	1							2											
					20.40	23.50	3.1	Argillite	50	Greywacke	50	2	2	2							2											
					23.50	26.50	3	Argillite	40	Greywacke	60	2	1	1							2											
					26.50	29.70	3.2	Argillite	100			2	1	1							2		B	70								
					29.70	31.00	1.3	Argillite	100			6	1	1							2								6% pyrite nodules and layers.	66078	<2	<0.01
					31.00	32.60	1.6	Argillite	100			5	1	2							2											
					32.60	36.25	3.65	Argillite	100			5	1	2							2		FLT	60								
					36.25	37.50	1.25	Argillite	100			3	5	5							3											
					37.50	38.90	1.4	Argillite	100			3	5	5							3											
					38.90	43.20	4.3	Argillite	100			3	1	1							2		B	65								
43.2	45.4	2.2	Dolomite	Medium grey to olive greenish to white dolomite. Very strong silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish again. As the alteration regresses the rock begins to have a veiny/mottled texture comprised of dolomite with lesser quartz within the argillite.	43.20	45.40	2.2	Dolomite	100			2	1	4							4	2										
45.4	46.1	0.7	fault	This is a splay of the east vein. Vein is dolomite with quartz and black stringers within argillite.	45.40	46.10	0.7	Dolomite	100	East vein	40	2	1	25							4	3	FLT	50	FLT	70			Splay of the east vein/fault, infilled with dolomite gouge, black tetrahedrite (?) stringers.	66082	<2	<0.01
46.1	50.6	4.5	Dolomite	Interval between two splays of the east vein, strongly silicified with black tetrahedrite (?) stringers and brownish sphalerite (?) stringers. Not actually a 3 m interval, poor core recovery, approximately 1.5 to 1.75 m.	46.10	47.60	1.5	Dolomite	100			2	2	4							4	2							Interval between two splays of the east vein, strongly silicified with black tetrahedrite (?) stringers.	66083	<2	<0.01
					47.60	50.60	3	Dolomite	100			2	2	4				2	0	5	2											
50.6	51.5	0.9	fault	This is a splay of the east vein. Vein is dolomite with quartz and black stringers within argillite.	50.60	51.50	0.9	Dolomite	100	East vein		2	2	5		1	1	1		5	2	FLT	55					Splay of the east vein/fault, py, cpy, sph, gal (?), black tetrahedrite (?) stringers.	66084 66085	<2 7	<0.01 0.01	
51.5	53.9	2.4	Dolomite	Adjacent to east vein/fault, py, cpy, gal, sph, black tetrahedrite (?) stringers. Not actually 2.4 meter interval, drillers hit a "void", possible piece of the underground workings. This interval is not complete, drillers intersected a "void", possibly a piece of the underground workings. It was verified underground that the drill hole intersected the east vein raise at the north end of the east vein drift (level 1) (approx. 2 - 2.5 m) and the access drift to the east vein (crosscut drift) (approx. 0.6 m).	51.50	53.90	2.4	Dolomite	100			2	1	4		1	1	1		4	2											

Hole ID: PT09-04

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krockner
Azimuth:	230	Core Dia. BTW
Dip:	-45	Start: 11-Sep-09
Length (m):	99.7	End: 12-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	230	-45	
	99.7	230	-40	acid

Purpose: To test pyrite body down dip east of PT09-01 & PT09-02

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
53.9	70.25	16.35	Argillaceous Dolomite	Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining.. This unit hosts local massive sulphide zones. Veining is abundant and erratic and occurs in all directions.	53.90	57.00	3.1	Argillaceous Dolomite	100			1	2	3						2	1	FLT	50								
					57.00	60.00	3	Argillaceous Dolomite	100			1	3	5						2	1							Some cherty intervals.			
					60.00	62.25	2.25	Argillaceous Dolomite	100			10	10	15	2					2	1							Massive sulphide nodules within the siliceous argillitic dolomite unit.	66087	<2	0.2
					62.25	66.10	3.85	Argillaceous Dolomite	100			4	5	7	1					2	1										
					66.10	69.25	3.15	Argillaceous Dolomite	100			2	2	4						2	1							Some brecciated intervals with sub-rounded clasts, .1 to 2 cm wide.			
					69.25	70.25	1	Argillaceous Dolomite	100			3	4	8						2	3							Adjacent to massive sulphide interval, strong Fe-carbonate alteration.	66088	<2	<0.01
70.25	70.6	0.35	Massive Sulphide	Massive sulphide interval within Argillaceous dolomite unit.	70.25	70.60	0.35	Massive sulphide	80	Argillaceous D	20	80	1	1						1	1							Interval of massive sulphide within argillaceous dolomite.	66089	6	0.06
70.6	72	1.4	Argillaceous Dolomite		70.60	72.00	1.4	Argillaceous Dolomite	100			1	1	3						1	3							Adjacent to massive sulphide interval, strong Fe-carbonate alteration.	66091	<2	0.01
72	73.3	1.3	Fault		72.00	73.30	1.3	Fault	100	Argillaceous Dolomite		1	1	1	3					1	1							Rubble core, fault with black gouge, strong calcite alteration, could not measure orientation.			
73.3	84.35	11.05	Argillaceous Dolomite	Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining.. This unit hosts local massive sulphide zones. Veining is abundant and erratic and occurs in all directions.	73.30	78.30	5	Argillaceous Dolomite	100			3	2	4	1	1				2	1										
					78.30	81.40	3.1	Argillaceous Dolomite	100			3	2	4	2	1				2	2										
					81.40	83.40	2	Argillaceous Dolomite	100			3	1	3	1	1				2	2										
					83.40	84.35	0.95	Argillaceous Dolomite	100			3	2	4	2	1				2	2							Adjacent to massive sulphide interval, strong Fe-carbonate alteration.	66092	<2	<0.01
84.35	85.15	0.8	Massive Sulphide	Massive sulphide interval within Argillaceous dolomite unit.	84.35	85.15	0.8	Massive sulphide	80	Argillaceous D	20	80	1	2	1	1				2	1							Interval of massive sulphide within argillaceous dolomite.	66093	5	0.68
85.15	99.7	14.55	Argillaceous Dolomite	Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining.. This unit hosts local massive sulphide zones. Veining is abundant and erratic and occurs in all directions.	85.15	86.15	1	Argillaceous Dolomite	100			3	1	3	1	1				2	1							Adjacent to massive sulphide interval, strong Fe-carbonate alteration.	66094	<2	<0.01
					86.15	87.50	1.35	Argillaceous Dolomite	100			2	2	3	1					2	1										
					87.50	90.50	3	Argillaceous Dolomite	100			2	5	5	1					2	1										

Hole ID: **PT09-04**

Location		
Northing:	5593966	UTM Zone: 11N
Easting:	542144	Datum: NAD 83
Elevation:	2633	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	230	Core Dia.	BTW
Dip:	-45	Start:	11-Sep-09
Length (m):	99.7	End:	12-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	230	-45	
	99.7	230	-40	acid

PurposTo test pyrite body down dip east of PT09-01 & PT09-02

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
					90.50	93.60	3.1	Argillaceous Dolomite	100			2	3	3	1					2	1										
					93.60	96.60	3	Argillaceous Dolomite	100			2	15	20	1					3	1	FLT	85								
					96.60	99.70	3.1	Argillaceous Dolomite	100			2	7	10	1					3	1										

Hole ID: PT09-05

Location		
Northing:	5594027	UTM Zone: 11N
Easting:	542201	Datum: NAD 83
Elevation:	2607	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-45	Start:	13-Sep-09
Length (m):	206.4	End:	15-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-45	
	206.3	255	-54	acid

Purpose:	To test centre of mag body.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	27.15	27.15	Overburden	Talus	0.00	27.15	27.15	Overburden	100																						
27.15	35.3	4.3	Argillite	Medium grey to black, fine grained, finely laminated, strongly strained and distorted slaty argillite with abundant quartz carbonate veining. Bedding 70 degrees TCA. Locally silicified. Quartz carbonate veins 1 - 3 mm wide, strong carbonate content, locally distorted and folded. Tight ptygmatic folding, 30 degree closure, locally crenulated.	27.15	32.60	5.45	Talus	80	Argillite	20																	The first four meters is rubble rock with a mixed up variety of rock types, it is still talus. The end of this interval seems to have hit bedrock and is into the Argillite unit.			
35.3	46.63	11.33	Dolomite	Medium grey to olive greenish to white dolomite. Very strong silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish/greenish again. As the alteration regresses the rock begins to have a veiny/mottled texture with veins comprised of dolomite with lesser quartz within the argillite.	32.60	35.30	2.7	Argillite	100			1	1	5	1	1					1	2	B	70							
					35.30	38.70	3.4	Dolomite	75	argillite	25	1	2	4	2	1					3	2	B	65				Gradual contact between Argillite and Dolomite. The lamination and veins are still aparent through the silicification. The Dolomite unit is probably highly altered Argillite.			
					38.70	41.80	41.8	Dolomite	100			1	2	2	4	1					4	2	Vein	65				Abundant vuggy calcite veins			
					41.80	46.63	4.83	Dolomite	100			1	2	2	3	1					5	2	FLT	60				Local brecciated texture visible through the silicification. Rounded to sub-rounded clasts, .5 to 3 cm wide and elongated parallel to foliation. Sharp lower contact with faulted zone.			
46.63	54.3	7.67	Fault	Rubble core with abundant 1 - 2 cm faults, fault area is comprised of overlying Argillite and underlying sericite-chlorite phyllitic schist.	46.63	54.30	7.67	Fault	100	Argillite/sericite-chlorite		1	1	3	1	1					1	1	FLT	60				Rubbly core with abundant 1 -3 cm faults infilled with clay gouge. The rock changes from Argillite to sericite-chlorite phyllitic schist.			
54.3	60.85	6.55	Sericite-chlorite phyllitic schist	Dark green, fine grained, schistose sericite-chlorite phyllitic schist with a sheen to it. Abundant porous calcite veins, .1 - 1 cm wide. Local brecciated texture.	54.30	57.00	2.7	Ser-chl-schist	100				1		3						1		FLT	65				Abundant vuggy calcite veins, .1 to 1 cm wide. Several fault splays, 60 - 70 degrees TCA, .5 - 1 cm wide.			
					57.00	60.85	3.85	Ser-chl-schist	100				1		3	1					1		FLT	65							
60.85	68.26	7.41	Fault	Rubble core with abundant 1 - 3 cm faults, fault area is comprised of overlying Sericite-chlorite phyllitic schist which grades into underlying Argillaceous Dolomite. infilled with clay gouge. Abundant .2 - 1 cm porous calcite veins. The fault zone is the contact between the overlying Sericite-chlorite phyllitic schist and underlying Argillaceous Dolomite.	60.85	68.26	7.41	Fault	100			1	1	1	2	1					1	1	FLT	60	FLT	55					
68.26	81.03	12.77	Argillaceous Dolomite	Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining. Veining is abundant and erratic and occurs in all directions comprised mainly of calcite and Fe-carbonate.	68.26	72.20	3.94	Argillaceous Dolomite	100			1	1	1	2	2					1	2						Veins are comprised mainly of porous calcite and Fe-carbonate with local pink alteration.			
					72.20	75.30	3.1	Argillaceous Dolomite	100			1	1	1	2	2					1	2									

Hole ID: PT09-05

Location		
Northing:	5594027	UTM Zone: 11N
Easting:	542201	Datum: NAD 83
Elevation:	2607	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	255	Core Dia.	BTW
Dip:	-45	Start:	13-Sep-09
Length (m):	206.4	End:	15-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-45	
	206.3	255	-54	acid

Purpose:	To test centre of mag body.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
81.03	87.85	6.82	Fault	Fault zone, rubble core with abundant 1 - 3 cm faults infilled with clay gouge. There is one fault running at 30 degrees TCA, the majority of fault range from 70 to 80 degrees TCA. This zone becomes more silicified downhole and is the contact between overlying Argillaceous Dolomite and underlying Dolomite. There are local aqua-blueish green crystals (the same ones seen in the underground working near the massive pyrite zone) near the end of the interval,.	75.30	78.30	3	Argillaceous Dolomite	100			1	1	1	1	1				1	2	FLT	10					There is a fault running almost parallel to the core at 10 degrees TCA infilled with carbonate clay gouge.			
					78.30	81.03	2.73	Argillaceous Dolomite	100			1	1	1	1	1				1	2										
					81.03	87.85	6.82	Fault zone	100	Argillaceous dolomite		1	1	1	1	2				1	2	FLT	30	FLT	70	FLT	80				
87.85	108.5	20.65	Dolomite	Medium grey to olive greenish to white dolomite. Silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish again. As the alteration regresses the rock begins to have a veiny/mottled texture comprised of dolomite with lesser quartz within the argillite. This unit becomes brecciated downhole towards the faulted contact with the underlying Arenite unit. Bedding is faintly visible locally and is now strongly strained and distorted with what seems to be local flame structures.	87.85	89.00	1.15	Dolomite	100			1	1	5	1	2				2	4	FLT	85	B	20		The bedding has become very shallow, it is 20 degrees TCA, it is largely overprinted by alteration but still visible, it now resembles folds in the core not bands and there is local concentrations of a black mineral in the "nose" and "hinges".	66095	<2	<0.01	
					89.00	90.50	1.5	Dolomite	100			1	1	5	1	2				2	4	B	20	FLT	90						
					90.50	92.25	1.75	Dolomite	100			1	1	1	1	2				3	4	B	25								
					92.25	96.60	4.35	Dolomite	100			2	1	1	1	2				3	3	B	35								
					96.60	99.70	3.1	Dolomite	100			2	1	1	1	2				3	3	B	45								
					99.70	102.70	3	Dolomite	100			1	1	1	1	2				2	3										
					102.70	105.80	3.1	Dolomite	100			1	1	1	1	2				2	3	FLT	70								
					105.80	108.50	2.7	Dolomite	100			1	1	1	1	2				3	3										
108.50	109.50	1	Fault/East Vein?	35	Arenite	65	4	4	4	1	2				2	2	FLT	85													
108.5	119.3	10.8	Mafic Sill	Light grey to dark green, medium grained highly altered mafic body. Grades downhole from grey with strong carbonate alteration into a dark green chloritized (?) unit. 4 -6 % disseminated sulphide mineralization with local stringers including: 2 - 3 % pyrite, 1 - 2 %	108.50	108.95	0.45	Mafic sill	100	Fault zone/east vein?		2	2	2	10	2				2	3	FLT	85				Small interval of Mafic sill adjacent to interval with very high Mag Sus readings. Porous calcite veins with black tetrahedrite (?) stringers, east vein?	66098	<2	<0.01	

Hole ID: PT09-05

Location		
Northing:	5594027	UTM Zone: 11N
Easting:	542201	Datum: NAD 83
Elevation:	2607	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	255	Core Dia.	BTW
Dip:	-45	Start:	13-Sep-09
Length (m):	206.4	End:	15-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-45	
	206.3	255	-54	acid

Purpose:	To test centre of mag body.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)	
119.3	130.03	10.73	Argillite	chalcopyrite, 0.5 - 1 % sphalerite, magnetite (?), 1 - 2 % arsenopyrite (?), black stringers usually along the margins of quartz veins (tetrahedrite??, magnetite?, tourmaline?, fine grained chlorite?). There are abundant cm scale faults at the beginning of this interval created some rubble core; faults are typically 85 - 90 degrees TCA. THIS UNIT HAS VERY HIGH MAG SUS READINGS AND IS PROBABLY THE CAUSE OF THE MAGNETIC ANOMALY WHICH WAS TARGETED.	108.95	109.22	0.27	Mafic sill	100	High Mag Sus zone		10	1	5	1	2					2	3	Vein	80					HIGH MAG SUS ZONE, PROBABLE CAUSE OF TARGETED MAG ANOMALY. 5 to 10% sub-mm to mm size black minerals (magnetite?), these minerals die off in adjacent rock and the higher percentages are essentially confined to this small interval.	66099	<2	<0.01
					109.22	110.22	1	Mafic sill	100	Fault zone/east vein?	3	1	2	1	2				2	2	FLT	70					Adjacent to high Mag Sus zone.	66101	<2	<0.01		
					109.50	115.10	5.6	Mafic sill	100	Fault zone	3	1	2	1	2			1	2	2	FLT	80	FLT	85		Grey colored arenite with abundant 1 - 3 cm clay filled fault, 80 -85 degrees TCA. 3 -4 % sulphides, py, cpy, arspy?						
					115.10	116.50	1.4	Mafic sill	100		4	1	2	1	2			1	2	2	Vein	90							66102	<2	<0.01	
					116.50	118.00	1.5	Mafic sill	100		4	1	2	1	2			1	2	2									66103	<2	<0.01	
					118.00	119.30	1.3	Mafic sill	100		4	1	2	1	2			1	2	2									66104	<2	<0.01	
					119.30	124.10	4.8	Argillite	100		1	2	2	1	1				3	1	FLT	85	B	60								
					124.10	127.10	3	Argillite	100		1	1	2	1	1				2	1	FLT	60	B	60								
					127.10	130.03	2.93	Argillite	100		1	1	2	1	1				2	1	FLT	85	B	60								
					130.03	131.50	1.47	Dolomite	100		1	1	1	1	1				3	1												
					131.50	132.50	1	Dolomite	100		1	1	1	1	1				3	1												
					132.50	133.46	0.96	Fault Zone	100		4	5	5	2	1				4	1	FLT	65										
138	141.4	3.4	Arenite	Dark green, chloritized (?) arenite with 3 - 4 % disseminated py, with lesser cpy, possible tetrahedrite (?) stringers. Sharp upper and lower contacts, possibly faulted.	133.46	134.50	1.04	Dolomite	100			1	1	1	1	1				4	1							Adjacent to east vein fault.	66107	<2	<0.01	
					134.50	138.00	3.5	Dolomite	100			1	1	1	1	1			4	1												
					138.00	139.70	1.7	Arenite	100			4	1	2	1	1			1	3	1								66108	<2	<0.01	
141.4	167.57	26.17	Argillaceous Dolomite	Black, fine grained, massive argillaceous dolomite with rare local intercalated greywacke (only at the beginning and end of the unit).	139.70	141.40	1.7	Mafic sill	100			4	1	2	1	1			1	3	1								66109	<2	<0.01	
					141.40	145.40	4	Argillaceous Dolomite	20	Greywacke	80	1	1	2	1	1				2	2	FLT	10									
					145.40	151.50	6.1	Argillaceous Dolomite	100			1	1	1	1	1				2	2											
					151.50	154.50	3	Argillaceous Dolomite	100			1	1	1	1	1				2	2	Vein	45									
					154.50	157.60	3.1	Argillaceous Dolomite	100										2	2												
					157.60	160.60	3	Argillaceous Dolomite	100			1	2	3	1	1				2	2	FLT	45									
					160.60	163.30	2.7	Argillaceous Dolomite	100			1	2	3	1	1				2	2	FLT	80									
					163.30	167.57	4.27	Argillaceous Dolomite	100			1	1	1	1	1				2	2											

Hole ID: PT09-05

Location		
Northing:	5594027	UTM Zone: 11N
Easting:	542201	Datum: NAD 83
Elevation:	2607	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-45	Start:	13-Sep-09
Length (m):	206.4	End:	15-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-45	
	206.3	255	-54	acid

Purpose:	To test centre of mag body.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)										
167.57	206.3	38.73	Greywacke/Argillaceous Dolomite	Light to medium grey greywacke locally intercalated with black massive argillite. This interval contains numerous faults with intense quartz-carbonate veining which may be splays of the west vein fault system. There is significant mineralization associated with the veins as well as strong silicification and carbonate alteration. Locally, unit is strongly silicified greywacke with mineralized veins 1 - 40cm wide containing disseminated and stringers of py with trace cpy, sph (?) and possible tetrahedrite (?) stringers. Veins are possible splays of the west vein fault system.	167.57	167.70	0.13	Fault	100			7	20	10	1	1					4	2	FLT	80					Fault, infilled with quartz-carbonate veining with 7% pyrite.												
					167.70	169.80	2.1	Greywacke	100			1	3	3	1	1					4	3	FLT	80							Strongly silicified and carbonate altered massive greywacke.										
					169.80	172.80	3	Greywacke	100			1	5	7	1	1					4	3																			
					172.80	173.50	0.7	Greywacke	100			2	5	7	1	1					4	3	FLT	80								Fault zone with quartz flooding, abundant 1 -2 cm faults infilled with clay gouge.									
					173.50	174.50	1	Greywacke	100			4	10	10	1	1						0	4	4	FLT	80					Elevated mineralization, 3 - 5 %, with a strongly silicified and carbonate altered interval of greywacke with abundant 1 - 2 cm faults, there is also abundant mineralized veining up to 188m, possible splays of the west vein?	66111	<2	0.01							
					174.50	175.60	1.1	Greywacke	100			4	10	10	1	1						0	4	4											66112	<2	<0.01				
					175.60	176.90	1.3	Greywacke	100			4	2	3	1	1						0	4	4																	
					176.90	177.90	1	Greywacke	100			4	2	3	1	1						0	4	4													66113	<2	<0.01		
					177.90	178.90	1	Greywacke	100			5	20	20	2	2						0	4	4														66114	<2	<0.01	
					178.90	180.40	1.5	Greywacke	100			4	4	4	1	1						0	4	4														66115	<2	<0.01	
					180.40	181.90	1.5	Greywacke	100			4	4	4	1	1						0	4	4														66116	<2	<0.01	
					181.90	183.40	1.5	Greywacke	100			5	10	10	1	1						0	4	4														66117	<2	<0.01	
					183.40	185.00	1.6	Greywacke	100			4	3	3	1	1						0	4	4														66118	<2	<0.01	
					185.00	186.50	1.5	Greywacke	100			5	7	7	1	1						0	4	4														66119	<2	<0.01	
					186.50	188.00	1.5	Greywacke	100			5	7	7	1	1						0	4	4														66121	<2	<0.01	
					188.00	192.28	4.28	Greywacke	100			4	2	2	1	1								4	4																
					192.28	193.50	1.22	Greywacke	100			5	4	4	1	1							0	4	4	FLT	60											66122	<2	<0.01	
					193.50	197.20	3.7	Greywacke	50	Argillite	50	4	4	4	1	1							0	4	4																
					197.20	200.30	3.1	Argillite	100			4	2	2	1	1									3	4													Black massive argillite, 4-5 % disseminated pyrite.		
					200.30	203.00	2.7	Argillite	100			4	2	2	1	1									3	4	FLT	70													
					203.00	204.00	1	Argillite	100			3	10	10	1	1									4	4	B	60	B		90								66123	<2	<0.01
					204.00	205.00	1	Argillite	100			3	10	10	1	1									4	4	B	30	B		60								66124	<2	<0.01
					205.00	206.30	1.3	Argillite	100	EOH		3	10	10	1	1									4	4	FLT	50	B		30	B	50						66125	<2	<0.01

Hole ID: PT09-06

Location		
Northing:	5594022	UTM Zone: 11N
Easting:	542122	Datum: NAD 83
Elevation:	2616	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-52	Start:	15-Sep-09
Length (m):	105.8	End:	16-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-52	
	105.8	255	-37	acid

Purpose:	To test pyrite zone below the northern margin of the pyrite body in Level #1 and west vein mineralization.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)					
0	5.2	5.2	Overburden		0.00	5.20	5.2	Overburden	100																											
5.2	16.78	11.58	Dolomite	Pinkish-beige to greyish-white, fine grained, strongly distorted with strong silicification and carbonate alteration, 3 - 5 % disseminated sulphides with local stringers.	5.20	8.30	3.1	Dolomite	85			2	3	3	1	1				3	3							2% disseminated sulphides with local stringers.								
					8.30	10.30	2	Dolomite	100			2	3	3	1	1				3	3							2% disseminated sulphides with local stringers.								
					10.30	14.30	4	Dolomite	100			5	10	10	1	1				4	3															
					14.30	16.78	2.48	Dolomite	100			5	10	10	1	1				4	3															
16.78	23.68	6.9	Argillaceous Dolomite	Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining. This unit hosts local massive sulphide zones. Veining is abundant and erratic and occurs in all directions.	16.78	20.40	3.62	Argillaceous Dolomite	100			2	1	2	1	1				3	3															
					20.40	22.68	2.28	Argillaceous Dolomite	100			2	1	2	1	1				3	3															
					22.68	23.68	1	Argillaceous Dolomite	100			5	2	2	1	1				3	3							Interval of Argillaceous dolomite adjacent to massive sulphide interval, 5 % disseminated to small semi-massive patches of pyrite.	66126	<2	0.07					
23.68	24.05	0.37	Massive Sulphide	Massive sulphide (85%), comprised of pyrite, trace cpy, possible black tetrahedrite (?).	23.68	24.04	0.36	Massive Sulphide	85			85	3	3	1	1				3	3											66127	4	0.49		
24.05	30.65	6.6	Argillaceous Dolomite	Interval of Argillaceous dolomite adjacent to massive sulphide interval, 5 % disseminated pyrite.	24.04	25.50	1.46	Argillaceous Dolomite	100			5	5	5	1	1				3	3												66128	<2	<0.01	
					25.50	26.50	1	Argillaceous Dolomite	100			5	7	7	1	1				4	3													66129	<2	<0.01
					26.50	28.10	1.6	Argillaceous Dolomite	100	Semi-massive sulphide		3	3	3	1	1				4	3													66131	<2	<0.01
					28.10	29.10	1	Argillaceous Dolomite	100			7	10	10	1	1				4	3													66132	<2	0.06
					29.10	29.60	0.5	Massive sulphide	60	Argillaceous dolomite	40	60	10	10	1	1				4	3													66133	4	0.27
					29.60	31.10	1.5	Massive Sulphide	40	Argillaceous dolomite	60	40	10	10	1	1				4	3													66134	3	0.18
30.65	32.56	1.91	Massive Sulphide	Massive sulphide (85%), comprised of pyrite, trace cpy, possible black tetrahedrite (?).	31.10	32.56	1.46	Massive Sulphide	85			85	5	5	1	1				4	3													66135	6	0.49
32.56	37.14	4.58	Argillaceous Dolomite	Argillaceous Dolomite interval adjacent to massive sulphides, 4 % disseminated py, black stringers of tetrahedrite (?) along margins of quartz-carbonate veins.	32.56	33.60	1.04	Argillaceous Dolomite	85	Semi-massive	15	15	10	10	1	1				4	3													66136	<2	0.08
					33.60	35.15	1.55	Argillaceous Dolomite	100			4	10	10	1	1				4	3													66137	<2	<0.01
					35.15	36.15	1	Argillaceous Dolomite	100			2	3	5	1	1				4	3													66138	<2	<0.01
					36.15	37.14	0.99	Argillaceous Dolomite	100			7	3	5	1	1				4	3							10 cm interval of massive sulphide at the end of this interval at the contact with dolomite.	66139	2	0.28					
37.14	87.5	50.36	Dolomite	Light grey to blackish to khaki green to white, brecciated dolomite with strong silica and carbonate alteration. Clast 0.1 to 4 cm wide, black, beige, grey, most are elongated perpendicular to core axis. 2 = 5 % coarse, well developed, cubic, disseminated pyrite.	37.14	38.80	1.66	Dolomite	100			1	2	2	1	1				4	3												<2	<0.01		
					38.80	41.80	3	Dolomite	100			1	2	2	1	1				4	2															
					41.80	44.80	3	Dolomite	100			1	4	4	1	1				4	2															
					44.80	47.90	3.1	Dolomite	100			3	2	2	1	1				4	3															

Hole ID: PT09-06

Location		
Northing:	5594022	UTM Zone: 11N
Easting:	542122	Datum: NAD 83
Elevation:	2616	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-52	Start:	15-Sep-09
Length (m):	105.8	End:	16-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-52	
	105.8	255	-37	acid

Purpose:	To test pyrite zone below the northern margin of the pyrite body in Level #1 and west vein mineralization.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)			
87.5	102.55	15.05	Argillaceous Dolomite	Medium to dark grey to black Argillaceous dolomite with local intervals of greywacke, fine grained, massive. Abundant 1 - 3 cm faults, with local strong distorted quartz veining, probably splays of the east vein fault. 3 - 5 % disseminated py and stringers associated with fault splays.	47.90	52.00	4.1	Dolomite	100			3	2	2	1	1				4	3							Local black stringers between clasts, tetrahedrite (?)	66141	<2	<0.01			
					52.00	53.00	1	Dolomite	100			4	2	2	1	1				4	3									Clast getting small on average as you approach the fault zone.	66142	<2	<0.01	
					53.00	53.85	0.85	Dolomite	100			4	2	2	1	1				4	3									Multiple 1 -2 cm wide faults filled with clay gouge, 80 - 85 degrees TCA.				
					53.85	55.50	1.65	Fault zone		Dolomite	100	4	2	2	1	1				4	3	FLT	80											
					55.50	57.00	1.5	Dolomite	100			4	2	2	1	1				4	3	FLT	85											
					57.00	60.75	3.75	Dolomite	100			4	2	2	1	1				4	3													
					60.75	61.75	1	Dolomite	100			5	2	2	1	1				4	3									Local black stringers between clasts, tetrahedrite (?)				
					61.75	63.10	1.35	Dolomite	100			5	2	2	1	1				4	3													
					63.10	66.10	3	Dolomite	100			3	2	2	1	1				4	3													
					66.10	69.20	3.1	Dolomite	100			3	2	2	1	1				4	3													Khaki green to beige to light grey to black. brecciated dolomite (?), Clasts 0.1 to 4 cm wide.
					69.20	72.20	3	Dolomite	100			2	2	2	1	1				4	3	FLT	70											White dolomite, local pink alteration? Potassic?
					72.20	75.30	3.1	Dolomite	95	Argillaceous dolomite	5	1	1	2	1	2				4	3													White dolomite, local pink alteration? Potassic?
					75.30	78.30	3	Dolomite	90	Argillaceous dolomite	10	1	1	2	1	2				4	3													White to khaki green to beige dolomite, locally brecciated.
					78.30	81.40	3.1	Dolomite	100			1	2	3	1	2				4	3	FLT	70											Khaki green to beige to light grey to black. brecciated dolomite (?), Clasts 0.1 to 2 cm wide.
					81.40	85.00	3.6	Dolomite	100			1	2	3	1	2				4	3	FLT	70											Khaki green to beige to light grey to black. brecciated dolomite (?), Clasts 0.1 to 2 cm wide.
					85.00	86.00	1	Argillaceous Dolomite	80	Greywacke	20	2	3	4	1	2				3	2										Adjacent to possible splay of a fault, seems to change into Argillaceous dolomite at this point.	66143	<2	<0.01
					86.00	87.50	1.5	Vein, fault?	100	Argillaceous dolomite		5	10	15	2	2				4	2										Possible splay of a fault, veining, strong silicification and carbonate alteration with 5 % py stringers and disseminated crystals, possible tetrahedrite stringers?	66144	<2	0.05
					87.50	90.50	3	Argillaceous Dolomite	100			2	5	5	1	1				3	2											66145	<2	<0.01
					90.50	93.60	3.1	Argillaceous Dolomite	100			2	2	2	1	1				3	2													
					93.60	96.60	3	Argillaceous Dolomite	100			2	7	7	1	1				3	2										Heavily veined, if proximal samples run, this area should be sampled.			
					96.60	98.00	1.4	Argillaceous Dolomite	100			2	7	7	1	1				3	3									Heavily veined, if proximal west vein samples run, this area should be sampled.				
					98.00	99.00	1	Fault		Argillaceous Dolomite		5	7	7	2	1				3	3									Possible splay of a fault, veining, strong silicification and carbonate alteration with 5 % py stringers and disseminated crystals, possible tetrahedrite stringers?				

Hole ID: PT09-06

Location		
Northing:	5594022	UTM Zone: 11N
Easting:	542122	Datum: NAD 83
Elevation:	2616	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-52	Start:	15-Sep-09
Length (m):	105.8	End:	16-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-52	
	105.8	255	-37	acid

Purpose:	To test pyrite zone below the northern margin of the pyrite body in Level #1 and west vein mineralization.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
					99.00	100.00	1	Fault		Argillaceous Dolomite		5	7	7	2	1				3	3							Possible splay of a fault, veining, strong silicification and carbonate alteration with 5 % py stringers and disseminated crystals, possible tetrahedrite stringers?	66146	<2	<0.01
					100.00	102.55	2.55	Argillaceous Dolomite	100			2	2	2	1	1				3	3	FLT	80					Faulted lower contact with Argillite unit.			
102.55	105.8	3.25	Argillite	Black, fine grained, massive argillite.	102.55	105.80	3.25	Argillite	100	EOH		1	1	1	1	1				2	2	FLT	80								

Hole ID: PT09-07

Location		
Northing:	5594022	UTM Zone: 11N
Easting:	542122	Datum: NAD 83
Elevation:	2616	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-65	Start:	16-Sep-09
Length (m):	90.5	End:	17-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-65	

Purpose:	To test pyrite zone below the northern margin of the pyrite body in Level #1.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	7.1	7.1	Overburden		0.00	7.10	7.1	Overburden	100																						
7.1	14.7	7.6	Dolomite	White to light pale grey, fine grained dolomite with strong silicification and carbonate alteration. 5 % sulphide in the last few metres at the end of the interval towards the faulted contact with the underlying Argillaceous Dolomite. Locally, distorted veining, possible fault zone. 4 % disseminated sulphides with local stringers of pyrite and black tetrahedrite (?) concentrated around quartz-carbonate veining.	7.10	8.20	1.1	Dolomite	100			2	2	3	1	1				3	3							Local pink alteration. Fine grained garnet??, potassic?			
					8.20	12.20	4	Dolomite	100			4	5	5	2	1				4	3							If the two proximal samples run, this interval should be sampled.			
					12.20	13.70	1.5	Dolomite	100			5	5	5	2	1				4	3								66147	<2	<0.01
					13.70	14.70	1	Dolomite	100			5	7	7	2	1				4	3	FLT	50					Faulted lower contact with Argillaceous Dolomite, 50 degrees TCA.	66148	<2	0.02
14.7	30.15	15.45	Argillaceous Dolomite	Medium to dark grey to black, fine grained, massive to brecciated near the lower contact, Argillaceous Dolomite/Argillite. Local intervals of semi-massive to massive sulphide and black, brecciated, argillite.	14.70	18.10	3.4	Argillaceous Dolomite	100			2	2	2	1	1				2	2	FLT	50					Local 4 % py and black tetrahedrite (?) stringers.	66149	<2	<0.01
					18.10	19.10	1	Argillaceous Dolomite	100			4	2	3	1	1				2	2										
					19.10	20.75	1.65	Argillaceous Dolomite	100			2	3	4	1	1				2	2										
					20.75	21.75	1	Argillaceous Dolomite	100			5	4	5	1	1				2	2							4 -5 % disseminated py and stringers adjacent to small massive sulphide interval.	66151	<2	<0.01
					21.75	22.15	0.4	Semi-massive sulphide	30	Argillaceous D	70	30	5	5	1	1				2	2							Small semi-massive interval within Argillaceous Dolomite with black tetrahedrite (?) stringers.	66152	3	0.25
					22.15	23.50	1.35	Argillaceous Dolomite	100			7	5	10	1	1				3	2	FLT	50					Local strong dissminated py, on the verge of becoming semi-massive.	66153	<2	0.02
					23.50	24.40	0.9	Argillaceous Dolomite	100			7	10	15	1	1				3	2							Local py nodules and near semi-massive zones with black tetrahedrite (?) stringers.	66154	<2	0.05
					24.40	24.70	0.3	Semi-massive su	60	Argillaceous D	40	60	10	15	1	1				3	2							Semi-massive to massive py.	66155	4	0.36
					24.70	26.50	1.8	Argillite	100			2	1	1	1	1				3	2							Very abrupt end to the sulphides. The last semi-massive interval may be a fault contact between the dark grey Argillaceous Dolomite and the black argillite. Clasts 0.1 to 3 cm wide, angular to sub-rounded.			
					26.50	30.15	3.65	Argillaceous Dolomite	50	Argillite	50	2	1	1	1	1				4	2							Black, brecciated argillite grading into dark grey brecciated Argillaceous Dolomite.			
30.15	50.3	20.15	Dolomite	Light grey to white to olive green to pinkish, brecciated dolomite/silicified Argillaceous dolomite. Very strong silicification and carbonate alteration. 2 - 3 % coarse grained pyrite with black stringers of tetrahedrite (?), typically associated with the white more silicified intervals.	30.15	32.60	2.45	Dolomite	100			2	1	1	1	1				4	2	FLT	60					Light to medium grey brecciated dolomite/silicified Argillaceous dolomite.			
					32.60	35.70	3.1	Dolomite	100			2	1	1	1	1				5	2										
					35.70	36.70	1	Dolomite	100			3	1	1	1	1				5	2							Light grey to white, brecciated dolomite/silicified Argillaceous dolomite. Very strong silicification. 2 - 3 % coarse grained pyrite with black stringers of tetrahedrite (?)	66156	<2	<0.01
					36.70	38.70	2	Dolomite	100			3	1	1	1	1				4	2										
					38.70	41.80	3.1	Dolomite	100			3	1	1	1	1				4	2										
					41.80	44.90	3.1	Dolomite	100			3	1	1	1	1				4	2										
					44.90	47.90	3	Dolomite	100			3	1	1	1	1				4	3										
					47.90	50.30	2.4	Dolomite	100			3	1	1	1	1				4	3										

Hole ID: PT09-07

Location		
Northing:	5594022	UTM Zone: 11N
Easting:	542122	Datum: NAD 83
Elevation:	2616	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	255	Core Dia.	BTW
Dip:	-65	Start:	16-Sep-09
Length (m):	90.5	End:	17-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-65	

Purpose:	To test pyrite zone below the northern margin of the pyrite body in Level #1.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
50.3	59.5	9.2	Fault zone	Rubble core with abundant 1 - 3 cm faults, typically 60 degrees TCA. The zone is comprised mainly of sericite-chlorite-phyllitic schist with local brecciated dolomite intervals. Abundant porous calcite veins.	50.30	59.50	9.2	Fault zone	100	Ser-chl-phy-schist/Dol		3	1	1	2	1				2	1										
59.5	82.05	22.55	Dolomite	Light grey to white to olive green to pinkish, brecciated dolomite/silicified Argillaceous dolomite. Very strong silicification and carbonate alteration. 2 - 3 % coarse grained pyrite with black stringers of tetrahedrite (?), typically associated with the white more silicified intervals.	59.50	63.10	3.6	Dolomite	100			2	1	1	1	1				4	3										
					63.10	66.10	3	Dolomite	100			2	2	3	1	1				4	3	FLT	45								
					66.10	69.20	3.1	Dolomite	100			2	2	3	1	1				4	3	FLT	50	FLT	70						
					69.20	72.20	3	Dolomite	100			2	1	1	1	1				4	3	FLT	60								
					72.20	75.30	3.1	Dolomite	100			2	2	2	1	1				4	3	FLT	70								
					75.30	78.30	3	Dolomite	100			2	2	2	1	1				4	3	FLT	60								
					78.30	82.05	3.75	Dolomite	100			2	5	5	1	1				4	3	FLT	70								
82.05	93.6	11.55	Argillaceous Dolomite	Medium to dark grey, fine grained, massive Argillaceous dolomite. Faulted near the beginning of the interval near contact. 3 - 4 % py within and adjacent to faults.	82.05	84.40	2.35	Argillaceous Dolomite	100			3	2	2	1	1				2	3	FLT	60								
					84.40	87.50	3.1	Argillaceous Dolomite	100			1	1	1	1	1				2	3										
					87.50	90.50	3	Argillaceous Dolomite	100			1	1	1	1	1				2	3										
					90.50	93.60	3.1	Argillaceous Dolomite	100			1	1	1	1	1				2	3										

Hole ID: **PT09-08**

<u>Location</u>		
Northing:	5594050	UTM Zone: 11N
Easting:	542157	Datum: NAD 83
Elevation:	2595	Error (+/-): 3.7

<u>Drill Hole Data</u>		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-60	Start:	17-Sep-09
Length (m):	81.4	End:	18-Sep-09

<u>Survey</u>	Depth (m)	Az	Dip	Type
	0	255	-60	
	80.4	255	-57	acid

Purpose:	To test conductor and pyrite body.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)		
0	6.1	6.1	Overburden		0.00	6.10	6.1	Overburden																									
6.1	7.5	1.4	Dolomite	White to pink to maroon, fine grained, massive dolomite. 5 % sph (?) stringers and black stringers of tetrahedrite (?). Strong silica and carbonate alteration, pink to maroon color may be hematization? The pink resembles the previously described fine grained garnets? Could that also be hematization?	6.10	6.50	0.4	Dolomite	100			1	25	4	5	1					5	3											
					6.50	7.36	0.86	Dolomite	100			1	15	10	2	1		4		5	3	FLT	55							66157	<2	<0.01	
					7.36	7.50	0.14	Dolomite	100			1	25	4	5	1				5	3												
7.5	20.18	12.68	Fault Zone	Rubble core with abundant 1 - 5 cm fault filled with clay gouge. Sericite-chlorite-phyllitic schist intercalet with dolomite intervals. Very poor core recovery from 8.2 m to 14.3 m, drillers say they hit a "gravel zone", possibly the fault zone was not "coring" well.	7.50	11.30	3.8	Fault zone		Ser-chl-phy-schist/Dolomite		1	3	5	5	1				3	3	FLT	70	FLT	45					Rubble core with abundant 1 - 5 cm fault filled with clay gouge. Sericite-chlorite-phyllitic schist intercalet with dolomite intervals.			
					11.30	14.30	3	Fault zone		Ser-chl-phy-schist/Dolomite		1	3	5	5	1				3	3	FLT	70	FLT	45								
					14.30	17.40	3.1	Fault zone		Ser-chl-phy-schist/Dolomite		1	3	5	5	1				3	3	FLT	70	FLT	40								
					17.40	20.18	2.78	Fault zone		Ser-chl-phy-schist/Dolomite		1	3	5	5	1				3	3	FLT	45	FLT	1								
20.18	47.95	27.77	Argillite	Medium grey to black, fine grained, finely laminated, locally massive, strongly strained and distorted slaty argillite with abundant quartz carbonate veining. Finely laminated medium grey siltstone layers with black shale layers. Bedding 60 degrees TCA. Locally silicified. Local intervals of greywacke. Quartz carbonate veins 1mm to 8 cm wide, strong carbonate content, locally distorted and folded. Tight pygmatic folding, 30 degree closure, locally crenulated. Local, 2-3% pyrite/calcite nodules and layers.	20.18	23.50	3.32	Argillite	80	Ser-chl-phy-sc	20	1	3	4	5	1				2	4									Strongly distorted and brecciated, medium to dark grey argillite intercatated with ser-chl-phy-schist. Strong carbonate alteration. Several pinkish, porous, calcite veins.			
					23.50	26.50	3	Argillite	100			1	3	4	5	1				2	4	FLT	60							Strongly distorted and brecciated, medium to dark grey argillite intercatated with ser-chl-phy-schist. Strong carbonate alteration. Several pinkish, porous, calcite veins.			
					26.50	29.60	3.1	Argillite	100			1	1	2	2	1				2	1	FLT	85										
					29.60	32.60	3	Dolomite	30	Argillite	70	1	2	3	2	1				3	4									Small interval of Dolomite, also small interval of green ser-chl-phy-schist or chloritized argillite?			
					32.60	35.70	3.1	Dolomite	30	Argillite	70	1	2	3	2	1				3	4	FLT	45							Small interval of Dolomite, also small interval of green ser-chl-phy-schist or chloritized argillite (?) grading back into typical medium grey argillite.			
					35.70	38.70	3	Argillite	100			1	3	3	2	1				3	2	FLT	30	FLT	60								
					38.70	41.80	3.1	Argillite	100			1	3	3	2	1				2	2												
					41.80	44.80	3	Argillite	100			1	3	3	2	1				2	2												
					44.80	47.95	3.15	Argillite	100			1	3	3	2	1				2	2	FLT	65							Several 1 - 10 cm faults filled with clay gouge, bottom contact with dolomite is a 1 cm fault.			
47.95	69.3	21.35	Dolomite	Pale to medium green choritized, strongly silicified and carbonate altered,fine grained, Dolomite. 3 % disseminated brownish black mineral which locally has a dendritic crystal habit when veiwed on one of the two end faces of the core, it is seen as stringers typically along fractures and margins of quartz veins on the main core face , Tetrahedrite? Sphalerite?? 1 - 2 % disseminated pyrite with local stringers.	47.95	49.00	1.05	Dolomite	100			2	1	1	2	1				3	2	FLT	55								66158	<2	<0.01
					49.00	50.00	1	Dolomite	100			2	1	1	2	1				3	2										66159	<2	<0.01
					50.00	51.00	1	Dolomite	100			2	1	2	2	1				4	2										66161	<2	<0.01
					51.00	52.00	1	Dolomite	100			2	1	2	2	1				4	2	FLT	75								66162	<2	<0.01
					52.00	53.00	1	Dolomite	100			2	1	2	2	1				4	2	FLT	75								66163	<2	<0.01
					53.00	54.00	1	Dolomite	100			2	1	2	2	1				4	2										66164	<2	<0.01
					54.00	55.00	1	Dolomite	100			2	1	2	2	1				4	2	FLT	80								66165	<2	<0.01
					55.00	56.00	1	Dolomite	100			2	1	2	2	1				4	2	FLT	80								66166	<2	<0.01

Hole ID: PT09-08

Location		
Northing:	5594050	UTM Zone: 11N
Easting:	542157	Datum: NAD 83
Elevation:	2595	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	255	Core Dia.	BTW
Dip:	-60	Start:	17-Sep-09
Length (m):	81.4	End:	18-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-60	
	80.4	255	-57	acid

Purpose:	To test conductor and pyrite body.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)	
69.3	77.6	8.3	Mafic Sill	Medium grey to dark green (chloritized ?), medium grained, massive mafic sill. Quartz carbonate veining, 70 degrees TCA, one vein at 20 degrees TCA, with black stringers alongs vein margins, tourmaline? Tetrahedrite? The Mag Sus readings are very high throughout this unit which is probably the targeted mag anomaly. Upward of 10% of a sub-mm black disseminated mineral, magnetite?	56.00	57.50	1.5	Dolomite	100	Fault zone		2	1	2	2	1					4	2	FLT	80					Rubble core, fault zone, 70 degrees TCA. Beige, abundant clay gouge, strong carbonate alteration.	66167	<2	<0.01
					57.50	58.25	0.75	Dolomite	100			2	1	4	4	1					4	4	FLT	70						66168	<2	<0.01
					58.25	59.25	1	Dolomite	100	Ser-chl-phy-sc Breccia zone	20	3	1	2	2	1					4	2	FLT	80					Medium to dark green with pinkish beige clasts, brecciated dolomite. Medium to dark green with pinkish beige clasts, brecciated dolomite. Sharp faulted lower contact with Arenite unit.	66169	<2	<0.01
					59.25	60.25	1	Dolomite	100			3	1	2	2	1					4	2								66171	<2	<0.01
					60.25	61.75	1.5	Dolomite	100			3	1	2	2	1					4	2								66172	<2	<0.01
					61.75	66.20	4.45	Dolomite	80			3	1	1	1	1					4	2	FLT	80						66173	<2	<0.01
					66.20	67.20	1	Dolomite	100			3	1	1	1	1					4	2	FLT	80								
					67.20	69.30	2.1	Dolomite	100			3	1	1	1	1					4	2	FLT	80								
					69.30	70.30	1	Mafic Sill	100			2	3	3	3	1					2	1	FLT	70	V	70				66174	<2	<0.01
					70.30	71.30	1	Mafic Sill	100			2	3	3	3	1					2	1								66175	<2	<0.01
					71.30	72.30	1	Mafic Sill	100			2	3	3	3	1					2	1								66176	<2	<0.01
					72.30	73.30	1	Mafic Sill	100			2	2	2	2	1					2	1								66177	<2	<0.01
					73.30	74.30	1	Mafic Sill	100			2	3	3	3	1					2	1								66178	<2	<0.01
					74.30	75.30	1	Mafic Sill	100			2	3	3	3	1					2	1								66179	<2	<0.01
					75.30	77.60	2.3	Mafic Sill	100			2	3	3	3	1					2	1								66181	<2	<0.01
					77.60	79.50	1.9	Mafic Sill	100			3	15	15	15	5					4	2	FLT	70								
					79.50	81.40	1.9	Mafic Sill	100			2	3	3	3	1					2	1										
79.5	80.4	0.9	Mafic Sill	Dark green to medium grey, medium grained, massive mafic sill. Quartz carbonate veining, 70 degrees TCA, one vein at 20 degrees TCA, with black stringers alongs vein margins, tourmaline? Tetrahedrite? The Mag Sus readings begin to average out to about 0.5 toward the end of the hole. Upward of 10% of a sub-mm black disseminated mineral, magnetite?	79.50	81.40	1.9	Mafic Sill	100	EOH		2	3	3	3	1				2	1											

Hole ID: PT09-09

Location		
Northing:	5594054	UTM Zone: 11N
Easting:	542112	Datum: NAD 83
Elevation:	2598	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krockner
Azimuth:	255	Core Dia. BTW
Dip:	-45	Start: 18-Sep-09
Length (m):	121	End: 19-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-45	
	121	255	-40	acid

Purpose:	To test the pyrite body under the number two adit.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	5.1	5.1	Overburden		0.00	5.10	5.1	Overburden																							
5.1	11.3	6.2	Argillite	Black, fine grained, brecciated argillite.	5.10	8.20	3.1	Argillite	100			1	1	2	2	1				3	2	FLT	60	FLT	70			Black, fine grained, massive argillite.			
					8.20	11.30	3.1	Argillite	100			1	1	2	2	1				3	2										
11.3	29.6	18.3	Dolomite	Medium grey to olive greenish to white dolomite. Very strong silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish again. As the alteration regresses the rock begins to have a veiny/mottled texture comprised of dolomite with lesser quartz within the argillite.	11.30	13.30	2	Dolomite	100			2	1	1	1	1				4	2	FLT	70					Light to medium grey brecciated dolomite/silicified Argillaceous dolomite.			
					13.30	14.30	1	Dolomite	100			4	1	1	1	1				3	2							4-5 % py with abundant black stringers, tetrahedrite? Possible East vein?	66182	<2	<0.01
					14.30	17.40	3.1	Dolomite	100			2	1	1	1	1				4	2	FLT	70					Light to medium grey brecciated dolomite/silicified Argillaceous dolomite.			
					17.40	20.40	3	Dolomite	100			4	1	1	1	1				4	2	FLT	70					3 -4 % coarse grained, cubic, pyrite.			
					20.40	22.00	1.6	Dolomite	100			4	1	1	1	1				4	2	FLT	70					3 -4 % coarse grained, cubic, pyrite.			
					22.00	23.25	1.25	Dolomite	100			4	1	1	1	1				3	2							Abundant black stringers, tetrahedrite? Possible East vein?	66183	<2	<0.01
					23.25	26.50	3.25	Dolomite	100			4	1	1	1	1				3	2							3 -4 % coarse grained, cubic, pyrite.			
29.6	56.18	26.58	Sericite-chlorite schist	Dark green, fine grained, schistose sericite-chlorite phyllitic schist with a sheen to it. Abundant porous calcite veins, 0.1 - 1 cm wide. Local brecciated texture and rubbly core. Probably a chloritized and metamorphosed argillaceous dolomite.	26.50	29.60	3.1	Dolomite	100			4	1	1	1	1				3	2	FLT	70								
					29.60	47.50	17.9	Fault zone		Ser-chl-schist		1	2	3	5	1				2	2	FLT	70	FLT	80			1 - 5 cm fault filled with clay gouge.			
					47.50	50.90	3.4	Ser-chl-schist	70	Argillaceous D	30	1	2	3	4	1				2	2	FLT	70					Less rubble,			
					50.90	53.90	3	Ser-chl-schist	70	Argillaceous D	30	1	2	3	4	1				2	2	FLT	70					Less rubble, Clasts .1 to 4 cm wide.			
					53.90	56.18	2.28	Ser-chl-schist	70	Argillaceous D	30	1	2	3	4	1				2	2	FLT	70					Less rubble, Clasts .1 to 4 cm wide.			
56.18	71.3	15.12	Dolomite	Medium greenish grey to beige to white, fine grained, massive, locally brecciated dolomite. 2 - 3 % disseminated pyrite with local stringers, trace cpy, local brownish black mineral with dendritic crystal habit when viewed on the end of the core, tetrahedrite?	56.18	59.00	2.82	Dolomite	100			2	10	10	1	1			0	4	1										
					59.00	60.00	1	Dolomite	100			3	4	4	1	1			0	4	1	FLT	70								
					60.00	61.50	1.5	Dolomite	100			3	4	4	1	1			0	4	1										
					61.50	64.50	3	Dolomite	100			3	4	6	1	1			0	4	2	FLT	70								
					64.50	65.50	1	Dolomite	100			3	1	3	1	1			0	5	2										
					65.50	66.67	1.17	Dolomite	100			3	1	3	1	1			0	5	2										
					66.67	70.25	3.58	Dolomite	100			3	1	3	1	1			0	5	2										
					70.25	71.30	1.05	Dolomite	100			3	1	3	1	1			0	5	2										
71.3	104	32.7	Argillaceous Dolomite	Dark grey, fine grained, massive, strongly silicified argillaceous dolomite with strong qtz-carb veining with intercalated intervals of massive greywacke with lesser veining. This unit hosts local massive sulphide zones. Veining is abundant and erratic and occurs in all directions and locally contains pyrite stringers	71.30	75.30	4	Argillaceous Dolomite	70	Greywacke	30	1	2	2	1	1				5	1							Dark grey, fine grained, massive Argillaceous Dolomite intercalated with light grey, fine grained, massive Greywacke.			
					75.30	79.25	3.95	Argillaceous Dolomite	100			1	1	1	1	1				3	1							Dark grey, fine grained, massive Argillaceous Dolomite.			
					79.25	80.20	0.95	Argillaceous Dolomite	100			2	1	1	3	1				5	2	FLT	35								
					80.20	81.20	1	Argillaceous Dolomite	100			5	1	2	2	1				5	2	V	20					Faulted upper contact with last interval. 5 % in stringers of pyrite, most are concentrated near fault at upper contact, there is a semi-massive vein, 20 degrees TCA near the fault.	66191	<2	0.03
					81.20	82.55	1.35	Argillaceous Dolomite	100			4	1	2	2	1				5	2										

Hole ID: PT09-09

Location		
Northing:	5594054	UTM Zone: 11N
Easting:	542112	Datum: NAD 83
Elevation:	2598	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krockner
Azimuth:	255	Core Dia. BTW
Dip:	-45	Start: 18-Sep-09
Length (m):	121	End: 19-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	255	-45	
	121	255	-40	acid

Purpose:	To test the pyrite body under the number two adit.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)		
104	107	3	Argillaceous Dolomite	Disorted, with strong silica and carbonate vein flooding, approx. 15 cm of massive sulphide at the end of this interval, abundant black stringers (tetrahedrite?)	82.55	83.15	0.6	Argillaceous Dolomite	100	Semi- massive vein		25	3	7	1	1					5	2							Semi-massive carbonate vein, 25 % pyrite	66193	<2	0.59	
					83.15	84.55	1.4	Argillaceous Dolomite	100				4	1	2	2	1					5	2								66194	<2	<0.01
					84.55	86.00	1.45	Argillaceous Dolomite	100				3	7	10	1	1					4	2								66195	<2	<0.01
					86.00	87.50	1.5	Argillaceous Dolomite	100				7	10	10	10						5	1							Possible fault zone, with strong silicification and carbonate alteration. 7 % disseminated pyrite with abundant stringers, also black stringers tetrahedrite?	66196	<2	<0.01
					87.50	90.50	3	Argillaceous Dolomite	100	Fault zone			3	3	5	1	1					5	2	FLT	70					Some rubble core at the beginning of the interval with clay gouge, fault zone.			
					90.50	93.60	3.1	Argillaceous Dolomite	100				3	3	5	1	1					5	2	FLT	70								
					93.60	96.60	3	Argillaceous Dolomite	100				3	2	3	1	1					5	2										
					96.60	99.70	3.1	Argillaceous Dolomite	100				3	2	3	1	1					3	2							Dark grey, fine grained, massive, dolomite. 3 -4 % disseminated pyrite with local stringers.			
					99.70	104.14	4.44	Argillaceous Dolomite	100				3	2	3	1	1					3	2							Dark grey, fine grained, massive, dolomite. 3 -4 % disseminated pyrite with local stringers.			
					104.14	105.00	0.86	Argillaceous Dolomite	100	West vein			3	5	7	2	1					4	2								66197	<2	<0.01
					105.00	106.00	1	Argillaceous Dolomite	100	West vein			3	15	15	5	1					4	2								66198	<2	<0.01
					106.00	107.00	1	Argillaceous Dolomite	100	West vein			10	7	7	3	1					4	2							a 15 cm wide massive zone at the end of the interval, abundant black stringers tetrahedrite?	66199	5	0.39
107	121	14	Argillite	Black, fine grained, massive, argillite.	107.00	111.90	4.9	Argillite	100			1	2	2	1	1				1	1							Black, fine grained, massive argillite.					
					111.90	114.90	3	Argillite	100				1	2	2	1	1				1	1											
					114.90	118.00	3.1	Argillite	100				1	2	2	1	1				1	1											
					118.00	121.00	3	Argillite	100	EOH			1	2	2	1	1				2	1	FLT	80					Small silicified interval adjacent to small fault.				

Hole ID: PT09-10

Location		
Northing:	5594012	UTM Zone: 11N
Easting:	542125	Datum: NAD 83
Elevation:	2616	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	240	Core Dia.	BTW
Dip:	-45	Start:	19-Sep-09
Length (m):	60	End:	20-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	240	-45	
	60	240	-37	acid

Purpose:	To test pyrite mineralization between holes PT09-06 and 09.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)	
0	5.7	5.7	Overburden		0.00	5.70	5.7	Overburden																								
5.7	6.9	1.2	Argillite	Medium grey to black, fine grained, finely laminated, locally massive, strongly strained and distorted slaty argillite with abundant quartz carbonate veining. Finely laminated medium grey siltstone layers with black shale layers.Bedding 60 degrees TCA.	5.70	6.90	1.2	Argillite	100			1	1	1	1	1				2	1	FLT	75									
6.9	20	13.1	Dolomite	Medium grey to olive greenish to pinkish white dolomite. Very strong silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish again. As the alteration regresses the rock begins to have a veiny/mottled texture comprised of dolomite with lesser quartz within the argillite. Generally, there is 1 - 2 % disseminated pyrite with local stringers. 2 - 4 % brownish black dissminated mineral with dendritic crystal habit when viewed on the end piece of the core, tetrahedrite? The "east vein" fault is located in this interval from approx. 18 - 19 m and may extend a few meters in	6.90	11.53	4.63	Dolomite	100			2	2	2	2	1				3	2	FLT	75	B	60							
					11.53	12.53	1	Dolomite	100			2	2	2	2	2				4	3	FLT	70							66201	<2	<0.01
					12.53	13.83	1.3	Dolomite	100			2	2	2	2	2				4	3	FLT	70							66202	<2	<0.01
					13.83	14.33	0.5	Dolomite	100			3	2	2	2	2				4	3									66203	<2	<0.01
					14.33	16.00	1.67	Dolomite	100			3	7	10	5	2				5	2									66204	<2	<0.01
					16.00	17.00	1	Dolomite	100			3	7	10	5	2				5	2									66205	<2	<0.01
					17.00	18.00	1	Dolomite	100			3	7	10	5	2				5	2									66206	<2	<0.01
					18.00	19.00	1	Dolomite	100	East vein fault		7	10	15	5	2				5	2							This seems to be the heart of the "east vein" fault.	66207	<2	0.01	
					19.00	20.00	1	Dolomite	100			3	3	5	5	2				5	2									66208	<2	<0.01
20	42.36	22.36	Argillite	Black, fine grained, massive argillite. Interval from 32.6 to 33.4 resembles east vein fault and is surrounded by massive sulphide comprised of py, cpy, sphalerite?, tetrahedrite?	20.00	23.30	3.3	Argillite	100			2	3	3	2	1				3	2											
					23.30	26.50	3.2	Argillite	100			2	3	3	2	1				3	1											
					26.50	29.90	3.4	Argillite	100			3	3	3	2	1				3	1											
					29.90	31.65	1.75	Argillite	100			5	3	3	2	1				3	1							5- 7 % dissmeminated pyrite with local semi-massive intervals associated with quartz-carbonate veining.	66209	<2	<0.01	
					31.65	32.17	0.52	Argillite	100	Fault zone?		15	20	25	5	2			1	4	1							Strong silica and carbonate vein flooding, possibel fault? 15 % semi-massive pyrite with trace cpy.	66211	<2	0.12	
					32.17	32.60	0.43	Massive Sulphide	95	Quartz-carbon	5	90	2	2	1	1			5									Massive sulphide interval comprised of 90 % pyrite, 5 % cpy, disseminated and stringers of a black mineral tetrahedrite?, trace amounts of a semi-transparent red mineral, could not tell crystal habit, garnet??	66212	11	0.31	
					32.60	33.40	0.8	Argillite	100	Fault zone?		10	30	40	5	5			1	4	2							Strong silica and carbonate vein flooding, possibel fault? 10 % semi-massive pyrite with trace cpy.	66213	<2	0.04	
					33.40	34.07	0.67	Massive Sulphide	80	Quartz-carbon	20	75	7	7	2	2			3	3								Massive sulphide interval comprised of 90 % pyrite, 5 % cpy, disseminated and stringers of a black mineral tetrahedrite?	66214	7	0.46	
					34.07	34.67	0.6	Argillite	100			15	7	7	2	2			1	3								Argillite with strong quartz-carbonate veining. Semi-massive patches of py with accessory cpy.	66215	<2	0.1	
					34.67	35.70	1.03	Argillite	100			2	4	4	2	2				3	1											
					35.70	37.00	1.3	Argillite	100			2	4	4	2	2				3	1											
					37.00	37.75	0.75	Argillite	100	Semi- massive vein		60	5	5	2	2			3									Semi-massive interval, strong silica and carbonate vein, possible fault? 60% pyrite, 3 - 5 % cpy. Weathered out calcite vein, rusty and porous.	66217	<2	0.28	
					37.75	42.00	4.25	Argillite	100			2	4	4	2	2				3	1							Argillite adjacent to massive sulphide zone.				

Hole ID: PT09-10

Location		
Northing:	5594012	UTM Zone: 11N
Easting:	542125	Datum: NAD 83
Elevation:	2616	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	240	Core Dia.	BTW
Dip:	-45	Start:	19-Sep-09
Length (m):	60	End:	20-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	240	-45	
	60	240	-37	acid

Purpose:	To test pyrite mineralization between holes PT09-06 and 09.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
42.36	60	17.64	Dolomite	Medium grey to olive greenish to white dolomite. Very strong silicification with Fe-Carb alteration. Silicification progresses gradually turning the rock from greyish green to white and then regresses back to greyish/greenish again. As the alteration regresses the rock begins to have a veiny/mottled texture with veins comprised of dolomite with lesser quartz within the argillite. Commonly, 2 - 3 % disseminated pyrite with local stringers, pyrite locally is coarse grained well developed cubes	42.00	42.35	0.35	Argillite	100	semi-massive vein		35	20	20	1	1			1	3	1							Semi-massive interval, strong silica and carbonate vein, possible fault? 35% pyrite,1 % cpy. Weathered out calcite vein, rusty and porous.	66218	3	0.51
					42.35	44.80	2.45	Dolomite	100			2	5	5	1	1				5	2							Light grey to beige, brecciated, strongly silicified with moderate carbonate alteration, Dolomite.			
					44.80	47.90	3.1	Dolomite	60	Argillite	40	2	5	5	2	2				4	2							Light grey to beige, brecciated, strongly silicified with moderate carbonate alteration, Dolomite intercalated with black, massive argillite.			
					47.90	51.70	3.8	Argillite	100			2	5	5	2	2				3	2							Black, massive argillite with local brecciated intervals. Odd bright orange "scar" on the core beside 50.9 m block, possibly from drillers?? Check the core photo!			
					51.70	53.90	2.2	Dolomite	100			3	3	3	1	1				4	2										
					53.90	57.00	3.1	Dolomite	100			3	3	3	1	1				4	2										
					57.00	60.00	3	Dolomite	100	EOH		3	3	3	1	1				4	2										

Hole ID: PT09-11

Location		
Northing:	5593705	UTM Zone: 11N
Easting:	542110	Datum: NAD 83
Elevation:	2766	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	270	Core Dia.	BTW
Dip:	-45	Start:	20-Sep-09
Length (m):	87.5	End:	21-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	270	-45	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	4.2	4.2	Overburden		0.00	4.20	4.2	Overburden																							
4.2	87.5	83.3	Argillaceous Dolomite	Medium to dark grey, fine grained, massive Argillaceous dolomite. Interval of semi-massive to massive py with cpy, tetrahedrite (?) from 5 to 14m.	4.20	4.50	0.3	Argillaceous Dolomite	100			2	3	3	2	1				3	1										
					4.50	6.00	1.5	Argillaceous Dolomite	100			5	2	2	2	1			1	3	1	FLT	75					Beginning of the mineralized zone, 5 % disseminated pyrite with local stringers and nodules, 1 % disseminated cpy.	66219	<2	0.02
					6.00	7.00	1	Argillaceous Dolomite	100			7	2	2	2	1			1	3	1						7 % disseminated pyrite with local stringers and semi-massive nodules, 1 % disseminated cpy.	66221	2	0.02	
					7.00	7.75	0.75	Argillaceous Dolomite	100			20	4	4	1	1			2	3	1						20 % semi-massive pyrite, 2 % disseminated cpy, possible black tetrahedrite?	66222	7	0.04	
					7.75	9.40	1.65	Argillaceous Dolomite	100			5	3	5	1	1			1	3	1	Vein	10	Vein	40	Vein	50	5% disseminated pyrite with local stringers.	66223	6	0.01
					9.40	10.40	1	Massive sulphide	70	Argillaceous D	30	70	3	3	1	1				2								70 % massive to semi-massive py with 2 % cpy	66224	7	0.17
					10.40	10.90	0.5	Massive sulphide	90	Argillaceous D	10	90	2	2						5								90% massive py with 5% cpy, 5% black tetrahedrite (?), possible arsenopyrite.	66225	6	0.17
					10.90	12.40	1.5	Argillaceous Dolomite	100			5	3	4	1	1			1	3	1	FLT	65					Argillaceous Dolomite, 5% disseminated py, 1% cpy.	66226	<2	0.02
					12.40	13.00	0.6	Argillaceous Dolomite	100			7	1	1	1	1				2	3	1						7 - 10 % disseminated to semi-massive py with 2% cpy.	66227	3	0.06
					13.00	14.00	1	Massive sulphide	75	Argillaceous D	25	75	1	1	1	1				4								75% massive pyrite with 3 - 5 % cpy and 15 - 20 % black mineral as nodules and stringers, tetrahedrite?	66228	6	0.08
					14.00	15.00	1	Argillaceous Dolomite	100			3	2	2	1	1				2	1							Argillaceous Dolomite, 3 % disseminated pyrite, adjacent to massive sulphide zone.	66229	<2	0.01
					15.00	17.40	2.4	Argillaceous Dolomite	100			2	2	2	1	1				2	1	FLT	80					Medium to dark grey, fine grained, massive argillaceous dolomite.			
					17.40	20.40	3	Argillaceous Dolomite	100			1	2	2	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite.			
					20.40	23.50	3.1	Argillaceous Dolomite	100			1	2	2	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite. Core breaks in this unit are at a high angle to core axis, typically between 25 and 35 degrees.			
					23.50	26.50	3	Argillaceous Dolomite	100			1	1	1	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite.			
					26.50	29.60	3.1	Argillaceous Dolomite	100			1	1	1	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite.			
					29.60	32.60	3	Argillaceous Dolomite	100			1	1	1	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite. Rubble core zone, possible fault?			
					32.60	35.70	3.1	Argillaceous Dolomite	100			1	1	1	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite. Rubble core zone, possible fault?			

Hole ID: PT09-11

Location		
Northing:	5593705	UTM Zone: 11N
Easting:	542110	Datum: NAD 83
Elevation:	2766	Error (+/-): 3.7

Drill Hole Data		Logged by: R. Krockner
Azimuth:	270	Core Dia. BTW
Dip:	-45	Start: 20-Sep-09
Length (m):	87.5	End: 21-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	270	-45	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
					35.70	38.70	3	Argillaceous Dolomite	100			1	1	1	1	1				1	1							Medium to dark grey, fine grained, massive argillaceous dolomite. There is an interval of distorted rock with a slight increase of quartz-carbonate nodules/veins and possible clasts. It does not look like a fault, possible high energy event? Storm?			
					38.70	41.80	3.1	Argillaceous Dolomite	100			1	1	1	1	1				1	1							Medium to dark grey, fine grained, massive argillaceous dolomite. There is an interval of distorted rock with a slight increase of quartz-carbonate nodules/veins and possible clasts. It does not look like a fault, possible high energy event? Storm?			
					41.80	44.80	3	Argillaceous Dolomite	100			1	1	1	1	1				2	1	B	45								
					44.80	47.90	3.1	Argillaceous Dolomite	100			1	1	1	1	1				2	1	B	45								
					47.90	50.90	3	Argillaceous Dolomite	100			1	1	1	1	1				2	1										
					50.90	53.90	3	Argillaceous Dolomite	100			1	2	2	1	1				2	1	Vein	25	Vein	45						
					53.90	57.00	3.1	Argillaceous Dolomite	100			1	2	2	1	1				2	1										
					57.00	60.00	3	Argillaceous Dolomite	100			1	1	1	1	1				2	1										
					60.00	63.10	3.1	Argillaceous Dolomite	100			1	2	2	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite. Distorted as you approach the underlying brecciated dolomite unitl. "Foliation"/veining becomes parallel to core axis and folded.			
					63.10	65.43	2.33	Argillaceous Dolomite	100			1	2	2	1	1				2	1							Medium to dark grey, fine grained, massive argillaceous dolomite. Distorted as you approach the underlying brecciated dolomite unitl. "Foliation"/veining becomes parallel to core axis and folded.			
					65.43	69.30	3.87	Argillaceous Dolomite	100	Breccia zone		1	5	2	1	1				4	1							Greenish beige to greyish, brecciated, Argillaceous Dolomite. Clast 0.1 to 4 cm wide. Looks like the beginning of what I typically call Dolomite but the rock never reaches the white colored very strongly silicified state of the typical dolomite. Instead there are incalated intervals of black brecciated slaty argillite.			

Hole ID: PT09-11

Location		
Northing:	5593705	UTM Zone: 11N
Easting:	542110	Datum: NAD 83
Elevation:	2766	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	270	Core Dia.	BTW
Dip:	-45	Start:	20-Sep-09
Length (m):	87.5	End:	21-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	270	-45	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)	
					69.30	72.20	2.9	Argillaceous Dolomite	100	Breccia zone		2	2	2	1	1					4	1							Greenish beige to grey, brecciated, Argillaceous Dolomite. 2 - 3 % disseminated pyrite.			
					72.20	75.30	3.1	Argillaceous Dolomite	100	Breccia zone		2	2	2	1	1					4	1							Greenish beige to grey, brecciated, Argillaceous Dolomite. 2 - 3 % disseminated pyrite.			
					75.30	78.30	3	Argillite	100	Breccia zone		3	5	5	1	1					3	1							Black, brecciated, fine grained Argillite. 2 - 3 % pyrite, typically along the margins of clasts and as stringers.			
					78.30	81.40	3.1	Argillite	70	Argillaceous D	30	4	2	2	1	1					3	1	FLT	70					Black, brecciated, fine grained Argillite. 3 - 4 % pyrite, typically along the margins of clasts and as stringers. The interval changes back to Argillaceous dolomite at a faulted contact 70 degrees to core axis. Elevated pyrite near the beginning of the interval up to 5 % concentrated around clasts and as stringers.			
					81.40	84.40	3	Argillite	80	Argillaceous D	20	2	2	2	1	1					3	1	FLT	20					Beginning to come out of the brecciated zone. EOH			
					84.40	87.50	3.1	Argillaceous Dolomite	80	Argillite	20	3	2	2	1	1					3	1										

Hole ID: PT09-12

Location		
Northing:	5593705	UTM Zone: 11N
Easting:	542110	Datum: NAD 83
Elevation:	2766	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	270	Core Dia.	BTW
Dip:	-85	Start:	21-Sep-09
Length (m):	32.6	End:	21-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	270	-85	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	2.1	2.1	Overburden		0.00	2.10	2.1	Overburden																							
2.1	32	29.9	Argillaceous Dolomite	Medium to dark grey, fine grained, massive Argillaceous dolomite. Local intervals of elevated py with, tetrahedrite (?) from 11.35 - 12.22 m and 30.5 - 32 m.	2.10	5.20	3.1	Argillaceous Dolomite	100			2	3	3	1	1			0	3	1							Dark grey, fine grained, massive Argillaceous Dolomite, some rubble core that is a probably fault (could not be measured).			
					5.20	7.00	1.8	Argillaceous Dolomite	100			2	3	3	2	1			0	3	1										
					7.00	8.35	1.35	Argillaceous Dolomite	100			3	15	10	2	1				3	1							Fault near upper contact, could not be measured. Strong quartz-carbonate veining, one 40 cm wide with black (tetrahedrite?) stringers within it. 3 % disseminated pyrite	66231	4	<0.01
					8.35	9.85	1.5	Argillaceous Dolomite	100			4	5	5	2	1			0	3	1							Elevated pyrite, locally 4 - 5 %.	66232	<2	0.01
					9.85	11.35	1.5	Argillaceous Dolomite	100			4	3	3	2	1			0	3	1	Vein	20								
					11.35	12.22	0.87	Argillaceous Dolomite	100			10	20	20	5	2			1	4	1							Strong quartz-carbonate vein flooding with 10 % pyrite, 1 cpy, arsenopyrite?, Yellowish beige alteration, Fe-carb?	66234	<2	0.03
					12.22	13.72	1.5	Argillaceous Dolomite	100			3	2	2	1	1				3	1	FLT	85					Adjacent to strong py zone.	66235	<2	<0.01
					13.72	16.72	3	Argillaceous Dolomite	100			2	2	2	1	1				3	1							Adjacent to strong py zone.	66236	<2	<0.01
					16.72	20.40	3.68	Argillaceous Dolomite	100			2	2	3	1	1				3	1	FLT	25	FLT	70	B	60	2 % disseminated pyrite with minor local stringers within sub-cm qtz-carb veins parallel to bedding at 60 degrees to core axis.			
					20.40	23.50	3.1	Argillaceous Dolomite	100			2	2	3	1	1				3	1	FLT	25					2 % disseminated pyrite with minor local stringers within sub-cm qtz-carb veins parallel to bedding at 60 degrees to core axis.			
					23.50	26.50	3	Argillaceous Dolomite	100			2	1	1	1	1				3	1	FLT	25								
					26.50	29.60	3.1	Argillaceous Dolomite	100			2	1	1	1	1				3	1										
					29.60	30.50	0.9	Argillaceous Dolomite	100			3	2	2	1	1				3	1							Adjacent to strongly qtz-carb veined interval with 10 % sulphides.	66237	<2	<0.01
					30.50	31.25	0.75	Argillaceous Dolomite	100			10	20	20	2	1				4	1							Strong quartz-carbonate vein flooding with 10 % pyrite, 1 cpy, arsenopyrite?, black stringers tetrahedrite?, Yellowish beige alteration, Fe-carb?	66238	<2	<0.01
					31.25	32.00	0.75	Argillaceous Dolomite	100			15	3	3	1	1			.	3	1							Very strong pyrite mineralization, 15 %. Sharp lower contact with black argillite unit, strong mineralization ends at the contact.	66239	<2	0.01
32	32.6	0.6	Argillite	Black, fine grained, brecciated argillite. 2 -3 % pyrite nodules.	32.00	32.60	0.6	Argillite	100	EOH		3	1	1	1	1				3	1							Black, fine grained, brecciated argillite. 3 % local pyrite nodules.			

Hole ID: PT09-13

Location		
Northing:	5593678	UTM Zone: 11N
Easting:	542079	Datum: NAD 83
Elevation:	2771	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	90	Core Dia.	BTW
Dip:	-55	Start:	21-Sep-09
Length (m):	50.9	End:	22-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	90	-55	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	3	3	Overburden		0.00	3.00	3	Overburden																							
3	9.55	6.55	Argillaceous Dolomite	Dark grey, fine grained, massive Argillaceous Dolomite. 2 % disseminated pyrite with minor local stringers.	3.00	5.20	2.2	Argillaceous Dolomite	100			2	3	4	2	1				3	1										
					5.20	8.55	3.35	Argillaceous Dolomite	100			2	5	7	2	1				3	1										
					8.55	9.55	1	Argillaceous Dolomite	100			4	3	4	2	1				3	1	B	20					Interval adjacent to massive sulphide zone.	66241	2	0.01
9.55	16.47	6.92	Massive Sulphide	Massive sulphide interval within Argillaceous dolomite unit. 85 % pyrite, 2 - 5 % chalcopyrite, 2 - 5 % black mineral (tetrahedrite?), trace galena (?).	9.55	10.55	1	Massive Sulphide	85			85	1	1	1	1	0		3												
					10.55	11.50	0.95	Massive Sulphide	100			85	1	1	1	1	0		3												
					11.50	12.50	1	Massive Sulphide	100			85	1	1	1	1	0		3												
					12.50	13.50	1	Massive Sulphide	100			85	1	1	1	1	0		3												
					13.50	14.50	1	Massive Sulphide	100			85	1	1	1	1	0		5												
					14.50	15.50	1	Massive Sulphide	100			85	1	1	1	1	0		3												
					15.50	16.47	0.97	Massive Sulphide	100			85	1	1	1	1	0		3												
16.47	50.9	34.43	Argillaceous Dolomite	Medium to dark grey, fine grained, massive Argillaceous dolomite with minor local interval of black, fine grained, massive argillite within a fault zone (?) with rubble core from 24 - 34 m. Commonly, 2 % disseminated pyrite with minor local stringers.	16.47	17.40	0.93	Argillaceous Dolomite	100			3	5	7	2	1				3	1	Vein	30	Vein	65			Argillaceous dolomite adjacent to massive sulphide zone, 3 % py, black stringers (tetrahedrite?)	66249	3	0.03
					17.40	20.40	3	Argillaceous Dolomite	100			2	2	2	1	2				3	2										
					20.40	23.50	3.1	Argillaceous Dolomite	100			2	4	3	1	3				3	3										
					23.50	26.50	3	Argillaceous Dolomite	75	Argillite	25	2	4	3	1	3				3	3							The core is beginning to become more rubbly at the end of this interval with the Argillite shows up, possible fault zone? 2 % disseminated pyrite with minor local stringers.			
					26.50	29.60	3.1	Argillite	80	Argillaceous D	20	3	2	2	1	2				3	3							Rubble core, possible fault zone.			
					29.60	32.60	3	Argillaceous Dolomite	60	Argillite	40	2	2	2	1	2				3	3							Rubble core, possible fault zone? 2 % disseminated pyrite with minor local stringers. Fault but could not be measured.			
					32.60	35.70	3.1	Argillaceous Dolomite	80	Argillite	20	2	2	2	1	2				3	3							Argillite with a greasy graphitic feel to it. Rubble core, possible fault zone? 2 % disseminated pyrite with minor local stringers. Fault but could not be measured.			

Hole ID: PT09-13

Location		
Northing:	5593678	UTM Zone: 11N
Easting:	542079	Datum: NAD 83
Elevation:	2771	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	90	Core Dia.	BTW
Dip:	-55	Start:	21-Sep-09
Length (m):	50.9	End:	22-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	90	-55	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
					35.70	38.70	3	Argillaceous Dolomite	100			1	1	1	1	1				2	1	FLT	85	B	55			Medium to dark grey, fine grained, massive Argillaceous Dolomite with 1 - 2 % pyrite. Small interval that you can see bedding in at 55 degrees TCA.			
					38.70	41.80	3.1	Argillaceous Dolomite	100			1	1	1	1	1				2	1										
					41.80	44.80	3	Argillaceous Dolomite	100			1	1	1	1	1				2	1							Fault, could not be measured.			
					44.80	47.90	3.1	Argillaceous Dolomite	100			1	1	1	1	1				2	1										
					47.90	50.90	3	Argillaceous Dolomite	100	EOH		1	1	1	1	1				2	1										

Hole ID: PT09-14

Location		
Northing:	5593678	UTM Zone: 11N
Easting:	542079	Datum: NAD 83
Elevation:	2771	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	90	Core Dia.	BTW
Dip:	-80	Start:	22-Sep-09
Length (m):	20.4	End:	22-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	90	-80	

PurposTo test pyrite mineralization in new pyrite showing.

From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	3	3	Overburden		0.00	3.00	3	Overburden																							
3	20.4	17.4	Argillaceous Dolomite	Short hole which seems to collar into a fault? Medium to dark grey, fine grained massive Argillaceous Dolomite with very strong qtz-carbonate vein flooding. 1 - 2 % disseminated pyrite, 3 - 5 % black mineral as nodules and stringers typically around vein margins, tetrahedrite? Locally, Argillite intercalated with a 2 m interval of grey, medium grained, massive Arenite and local dark grey, fine grained, massive Argillaceous Dolomite.	3.00	3.40	0.4	Argillaceous Dolomite	100			2	2	2	1	1				3	1										
					3.40	4.40	1	Argillaceous Dolomite	95	Argillite	5	2	10	20	1	5				4	3							Local bright orange (realgar??) to deep rusty red alteration for the first few metres.	66251	<2	<0.01
					4.40	5.40	1	Argillaceous Dolomite	95	Argillite	5	2	5	20	1	5				4	3										
					5.40	6.40	1	Argillaceous Dolomite	100			2	5	20	1	5				4	3										
					6.40	7.30	0.9	Argillaceous Dolomite	100			2	10	20	1	5				4	3										
					7.30	12.10	4.8	Argillaceous Dolomite	60	Arenite	40	2	2	2	1	1				3	2	Vein	15	Vein	40						
					12.10	13.25	1.15	Argillaceous Dolomite	100			2	10	10	1	10				4	3							1 - 2 % disseminated pyrite, 3 - 5 % black mineral as nodules and stringers typically around vein margins, tetrahedrite?, tourmaline?	66255	<2	<0.01
					13.25	17.40	4.15	Argillaceous Dolomite	100			2	5	3	7	5				3	3							strong carbonate alteration and abundant porous calcite veins. 1 - 2 % disseminated pyrite.			
					17.40	20.40	3	Argillite	100			3	2	3	1	1				2	1	Vein	5					Black, fine grained, massive argillite with 2 - 3 % disseminated sulphides.			

Hole ID: PT09-15

Location		
Northing:	5593678	UTM Zone: 11N
Easting:	542079	Datum: NAD 83
Elevation:	2771	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	180	Core Dia.	BTW
Dip:	-45	Start:	22-Sep-09
Length (m):	34.1	End:	23-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	180	-45	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)		
0	3	3	Overburden		0.00	3.00	3	Overburden																									
3	11	8	Argillaceous Dolomite	Rubble core, the drillers were having some problems with the rock and producing a lot of rubble core for the first few metres on many of the holes from PT09-11 onward, collared in a fault? or?. Medium to dark grey, fine grained, massive dolomite with strong silicification	3.00	6.20	3.2	Argillaceous Dolomite	50	Argillite	50	3	4	5	3	3					3	3											
					6.20	7.20	1	Argillaceous Dolomite	60	Argillite	40	4	4	5	3	3					3	3								66256	<2	<0.01	
					7.20	8.20	1	Argillaceous Dolomite	60	Argillite	40	4	4	5	3	3					3	3								66257	<2	<0.01	
					8.20	9.70	1.5	Argillaceous Dolomite	100			3	3	4	2	2					3	3								66258	<2	<0.01	
					9.70	11.30	1.6	Argillaceous Dolomite	100			3	3	4	2	2					3	3								66259	<2	<0.01	
11	34.1	23.1	Argillaceous Dolomite	Medium to dark grey, fine grained, massive Argillaceous Dolomite with moderate qtz-carbonate veining and 2 - 3 % disseminated pyrite with local stringers.	11.30	14.30	3	Argillaceous Dolomite	100			2	5	5	5	3					3	2											
					14.30	17.53	3.23	Argillaceous Dolomite	100			2	5	5	5	3					3	2											
					17.53	19.03	1.5	Argillaceous Dolomite	100			4	5	5	5	3					3	2								66261	<2	<0.01	
					19.03	19.90	0.87	Massive Sulphide	90			80	2	4														Massive sulphide zone, 80 % pyrite, 5 % cpy, 5% tetrahedrite		66262		4	0.07
					19.90	21.40	1.5	Argillaceous Dolomite	100			4	3	5	2	2					3	2	B?	20				Adjacent to massive sulphide interval.		66263	<2	0.01	
					21.40	23.50	2.1	Argillaceous Dolomite	100			2	3	5	2	2					3	2											
					23.50	26.50	3	Argillaceous Dolomite	100			2	3	5	2	2					3	2											
					26.50	28.80	2.3	Argillaceous Dolomite	100			1	2	3	1	1					3	1	B	25									
					28.80	29.82	1.02	Massive Sulphide	70	Argillaceous D	30	65	4	10	1	1					3							Qtz-carb vein and massive sulphide zone, 65 % pyrite, 5 % cpy, 5 % tetrahedrite.		66264		2	0.08
					29.82	31.32	1.5	Argillaceous Dolomite	100			4	2	3	1	1					3	1						Adjacent to massive sulphide interval, 3 - 4 % py, 1 % cpy, black stringers possible tetrahedrite?		66265	<2	<0.01	
					31.32	34.10	2.78	Argillaceous Dolomite	100	EOH		3	2	3	1	1					3	1						Argillaceous Dolomite, ends in a thick qtz-carb vein.					

Hole ID: PT09-16

Location		
Northing:	5593678	UTM Zone: 11N
Easting:	542079	Datum: NAD 83
Elevation:	2771	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krocker
Azimuth:	360	Core Dia.	BTW
Dip:	-60	Start:	23-Sep-09
Length (m):	32.6	End:	23-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	360	-60	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	3.5	3.5	Overburden	Rubble core for the first 10 m of the hole, the drillers were having some problems with the rock and producing a lot of rubble core for the first few metres on many of the holes from PT09-11 onward, collared in a fault? or?. Abundant cm scale faults with clay gouge, several at 80 degrees TCA but most cannot be measured. Medium to dark grey, fine grained, massive Argillaceous Dolomite with strong silicification, carbonate alteration and strong qtz-carbonate veining, 2 - 3 % disseminated pyrite with stringers. The Argillaceous Dolomite is intercalated with intervals of black, fine grained, massive Argillite.	0.00	3.50	3.5	Overburden																							
3.5	32.6	29.1	Argillaceous Dolomite		3.50	10.00	6.5	Argillite	70	Argillaceous D	30	2	2	2	1	1				3	2	FLT	80								
					10.00	14.30	4.3	Argillaceous Dolomite	60	Argillite	40	2	2	2	1	1				3	2	B	90	Vein	60	B?	60	Intercalated intervals of Argillaceous Dolomite and Argillite. Small interval of argillite are finely laminated with bedding 90 degrees TCA. Other intervals with faintly visible bedding (?) at 60 degrees TCA.			
					14.30	17.40	3.1	Argillaceous Dolomite	90	Argillite	10	2	3	5	2	1				3	2	B	60								
					17.40	20.50	3.1	Argillaceous Dolomite	100			2	3	5	2	1				3	2										
					20.50	21.50	1	Argillaceous Dolomite	100			2	5	6	2	1				3	2							Increased qtz-carbonate veining, no significant sulphides but abundant black stringers, tourmaline?, tetrahedrite?	66266	<2	<0.01
					21.50	22.50	1	Argillaceous Dolomite	100			2	5	6	2	1				3	2							Increased qtz-carbonate veining, no significant sulphides but abundant black stringers, tourmaline?, tetrahedrite?	66267	4	0.01
					22.50	26.50	4	Argillite	70	Argillaceous D	30	3	2	3	2	1				3	1			Vein	20			Small interval of brecciated argillite.			
					26.50	29.50	3	Argillaceous Dolomite	60	Argillite	40											FLT	30					Fault at 30 degrees TCA. Several high angle qtz-carb vein at 20 degrees TCA.			
					29.50	32.60	3.1	Argillaceous Dolomite	100	EOH		1	1	1	1	1				3	1										

Hole ID: PT09-17

Location		
Northing:	5593678	UTM Zone: 11N
Easting:	542079	Datum: NAD 83
Elevation:	2771	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	24	Core Dia.	BTW
Dip:	-60	Start:	23-Sep-09
Length (m):	29.6	End:	24-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	24	-60	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	3.3	3.3	Overburden	Rubble core for the first 10 m of the hole. Medium to dark grey, fine grained, massive Argillaceous dolomite with strong silicification, carbonate alteration and strong qtz-carbonate veining, 2 - 3 % disseminated pyrite with stringers. The Argillaceous Dolomite is intercalated with intervals of black, fine grained, massive Argillite. Abundant cm scale faults with clay gouge, several at 80 degrees TCA but most cannot be measured. Looks very similar to PT09-16. No samples were taken from this hole because nothing looked prospective but if samples in PT09-16 run anything it may be worth going back to sample this hole.	0.00	3.30	3.3	Overburden																							
3.3	29.6	26.3	Argillaceous Dolomite		3.30	10.00	6.7	Argillite	80	Argillaceous D	20	2	2	2	1	1				3	2	FLT	80								
					10.00	14.30	4.3	Argillaceous Dolomite	70	Argillite	30	2	3	5	1	5				3	2	Vein	20	Vein	60						
					14.30	17.40	3.1	Argillaceous Dolomite	90	Argillite	10	2	15	10	1	5				3	2										
					17.40	20.40	3	Argillaceous Dolomite	100			2	4	3	1	4				3	2										
					20.40	23.50	3.1	Argillaceous Dolomite				3	3	3	1	4				3	2	Vein	20								
					23.50	26.50	3	Argillite	100			2	1	1	1	1				3	1	FLT	60								
					26.50	29.60	3.1	Argillite	100			2	1	1	1	1				3	1	Vein	50								

Hole ID: PT09-18

Location		
Northing:	5593684	UTM Zone: 11N
Easting:	542077	Datum: NAD 83
Elevation:	2776	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	115	Core Dia.	BTW
Dip:	-45	Start:	24-Sep-09
Length (m):	35.7	End:	24-Sep-09

Survey	Depth (m)	Az	Dip	Type
	0	115	-45	

Purpose:	To test pyrite mineralization in new pyrite showing.
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From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
0	4.25	4.25	Overburden		0.00	4.25	4.25	Overburden																							
4.25	35.7	31.45	Argillaceous Dolomite	Medium to dark grey, fine grained, massive Argillaceous dolomite with strong silicification, carbonate alteration and strong qtz-carbonate veining, 2 - 3 % disseminated pyrite with stringers. The Argillaceous Dolomite is intercalated with intervals of black, fine grained, massive Argillite. Two massive sulphide intervals, one from 11 - 14.65 m. The core was often coming out as rubble in this interval and the drillers lost an interval from 12.8 - 14.3 m because it fell out of the core tube through the drill shack floor as they pulled it out. The second interval is from 20.85 - 22.6 m.	4.25	8.20	3.95	Argillaceous Dolomite	100			2	3	4	1	4					3	3									
					8.20	10.00	1.8	Argillaceous Dolomite	100			2	3	4	1	4					3	3									
					10.00	11.00	1	Argillaceous Dolomite	100			3	2	3	1	3					3	3						adjacent to massive sulphide zone, 3 % disseminated py.	66268	<2	<0.01
					11.00	12.00	1	Massive Sulphide	100			90	2						2								Massive sulphide zone, 90 % py, 1 - 2 % cpy, 3 - 5 % tetrahedrite with minor qtz veining.	66269	12	0.16	
					12.00	12.80	0.8	Massive Sulphide	100			90	2						3								Massive sulphide zone, 90 % py, 4 - 5 % cpy, 3 - 5 % tetrahedrite with minor qtz veining. Core recovery on this 3 m run was only 1.5 m, the other 1.5 m was lost by the drillers.	66271	11	0.13	
					12.80	14.30	1.5	Lost core																			The massive sulphide unit was coming out locally as rubble, 1.5 m of this interval was lost when they pulled the core tube and the rubble core fell out of the tube and onto the ground outside.				
					14.30	14.65	0.35	Massive Sulphide	100			90	2						2								Massive sulphide zone, 90 % py, 1 - 2 % cpy, 1 - 2 % tetrahedrite? with minor qtz veining.	66272	23	0.24	
					14.65	15.65	1	Argillaceous Dolomite	100			5	4	4		4			0	3	3						Argillaceous Dolomite adjacent to massive sulphide zone, 5 % disseminated py with local stringers, trace cpy.	66273	2	0.03	
					15.65	17.40	1.75	Argillaceous Dolomite	100			5	4	4		4			0	3	3						Argillaceous Dolomite between massive sulphide zones, 5 % disseminated py with local stringers, trace cpy.				
					17.40	20.85	3.45	Argillaceous Dolomite	100			5	2	3		3			0	3	3	Vein	60	Vein	25		Argillaceous Dolomite between massive sulphide zones, 5 % disseminated py with local stringers, trace cpy.				
					20.85	21.85	1	Massive sulphide	70	Argillaceous D	30	70	15	7		7			3	3							Semi-massive sulphide interval with strong qtz-carbonate veining. 70 % py, 2 - 3 %, 3 - 5 % black tetrahedrite?, 20 - 30% qtz carbonate veining.	66274	5	0.17	
					21.85	22.60	0.75	Massive sulphide	60	Argillaceous D	40	60	20	10		10			3	3							Semi-massive sulphide interval with strong qtz-carbonate veining. 60 % py, 2 - 3 %, 3 - 5 % black tetrahedrite?, 30 - 40% qtz carbonate veining.	66275	7	0.10	
					22.60	23.60	1	Argillite	100			4	1	1	1	1				3	2						Black, fine grained, massive Argillite with 4 - 5 % sulphides.	66276	<2	0.02	
					23.60	26.50	2.9	Argillite	75	Argillaceous Dolomite	25	4	1	1	1	1				3	1										
					26.50	29.60	3.1	Argillaceous Dolomite	100			3	3	4	1	4				3	3										
					29.60	32.60	3	Argillaceous Dolomite	80	Argillite	20	3	3	4	1	4				3	3										

Hole ID: **PT09-18**

Location		
Northing:	5593684	UTM Zone: 11N
Easting:	542077	Datum: NAD 83
Elevation:	2776	Error (+/-): 3.7

Drill Hole Data		Logged by:	R. Krockner
Azimuth:	115	Core Dia.	BTW
Dip:	-45	Start:	24-Sep-09
Length (m):	35.7	End:	24-Sep-09

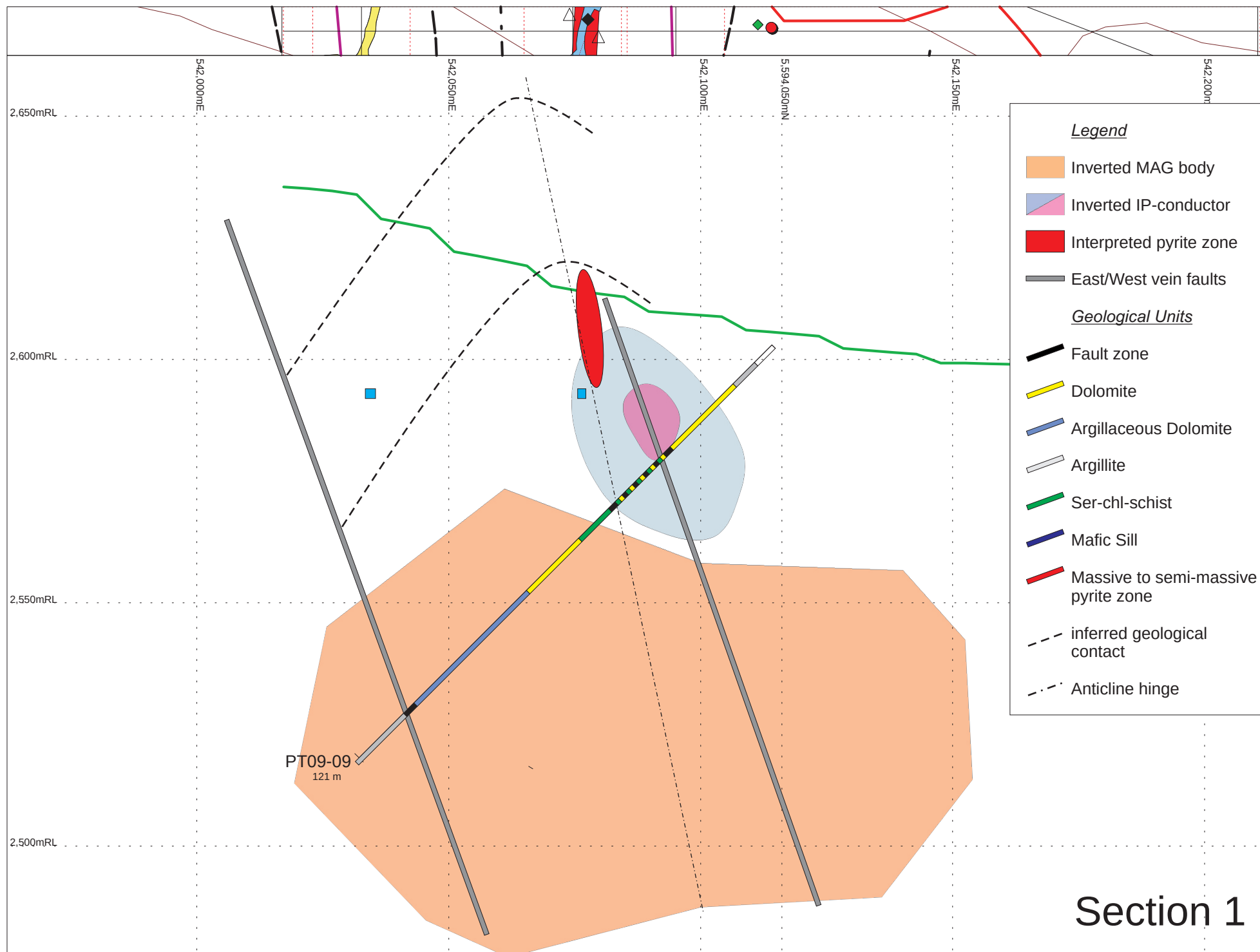
Survey	Depth (m)	Az	Dip	Type
	0	115	-45	

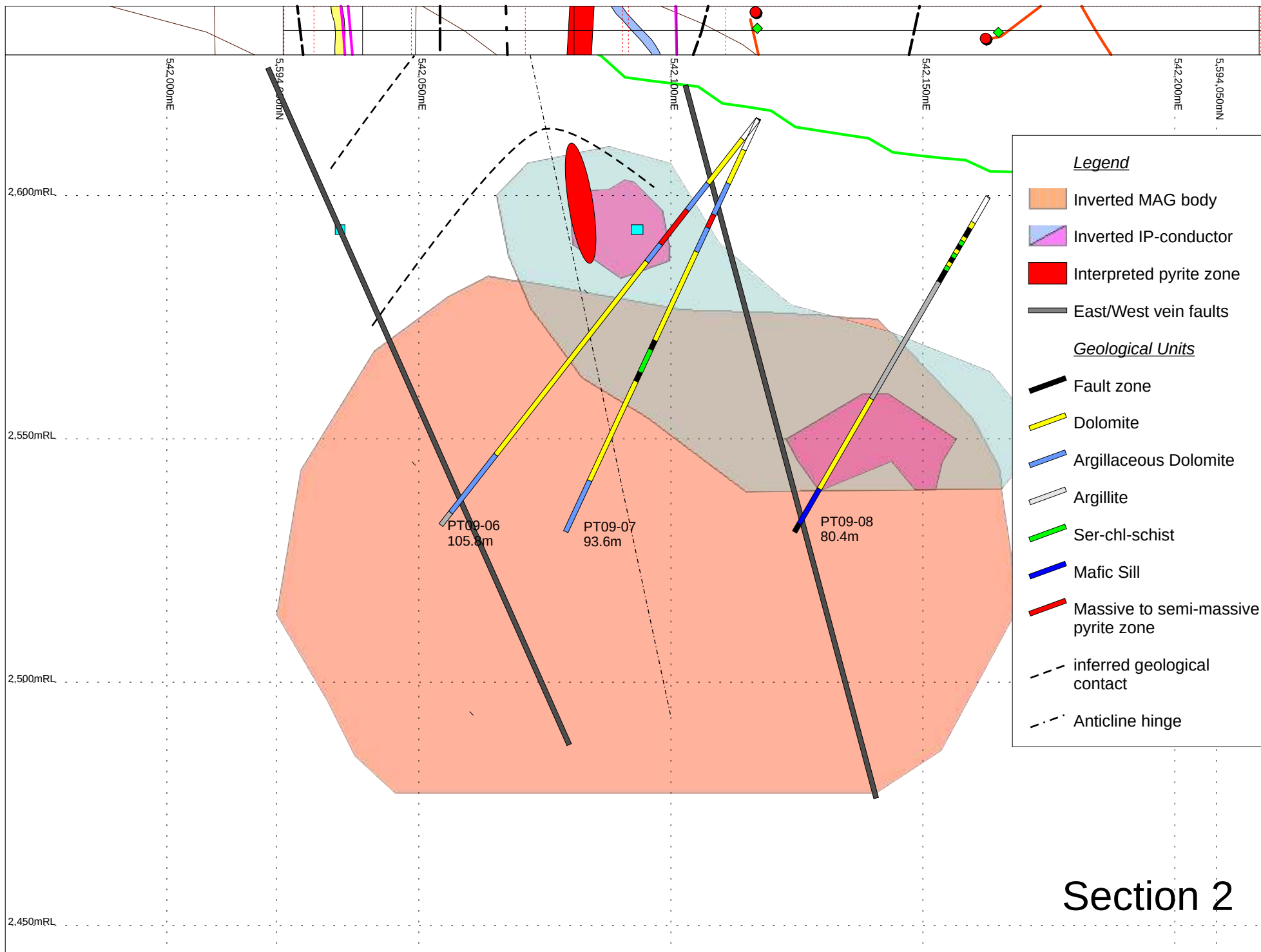
Purpose:	To test pyrite mineralization in new pyrite showing.
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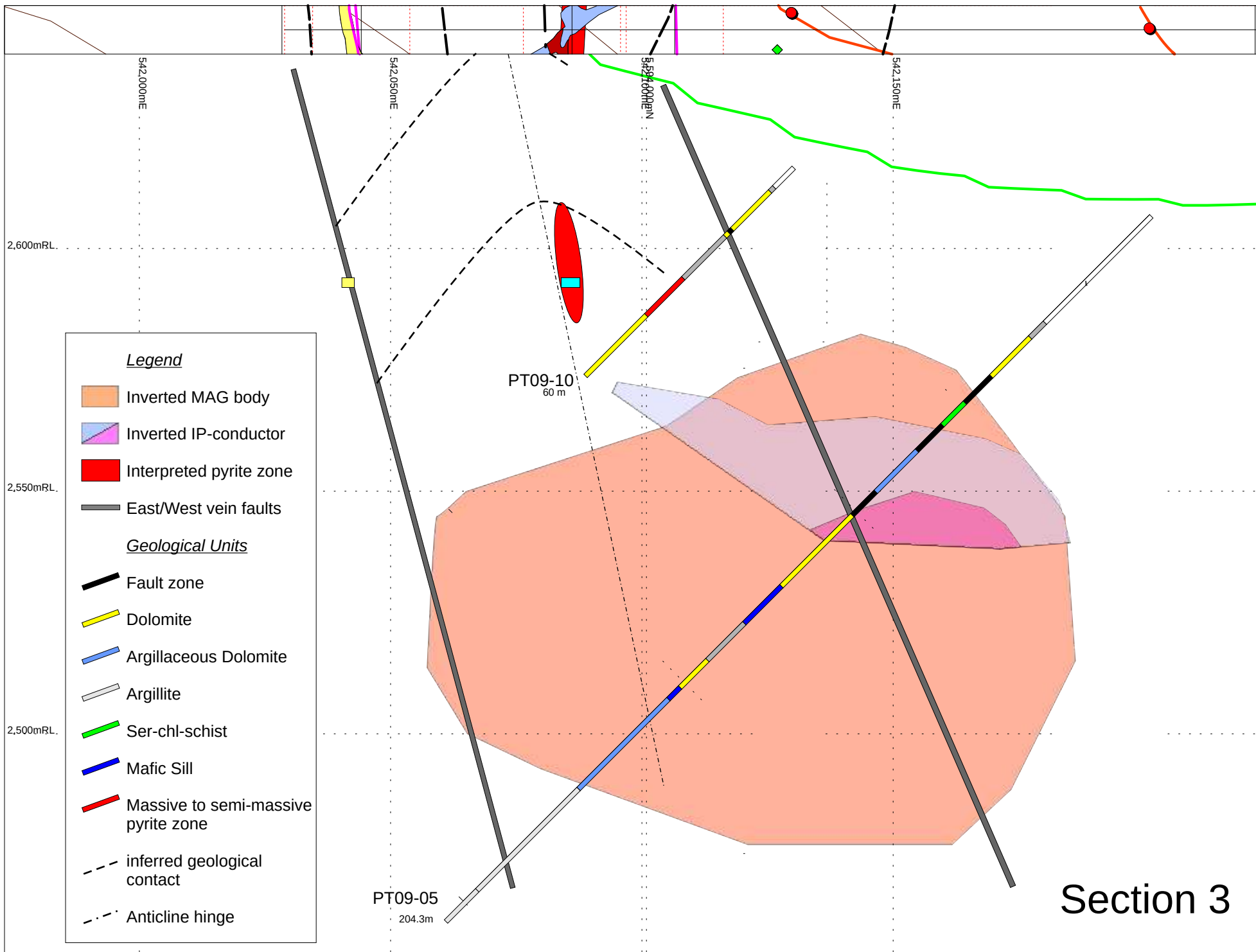
From (m)	To (m)	Int.	Unit	Description	From (m)	To (m)	Int. (m)	Rock Type 1	%	Rock Type 2	%	Py	Qtz	Dol	Cal	Fe-Cb	Gal	Sph	Cpy	Si-Alt	Cb-Alt	Str 1	Ang 1	Str 2	Ang 2	Str 3	Ang 3	Comments	Sample No.	Ag (g/t)	Au (g/t)
					32.60	35.70	3.1	Argillite	100	EOH		1	1	1	1	1				3	1						Black, fine grained, massive Argillite.				

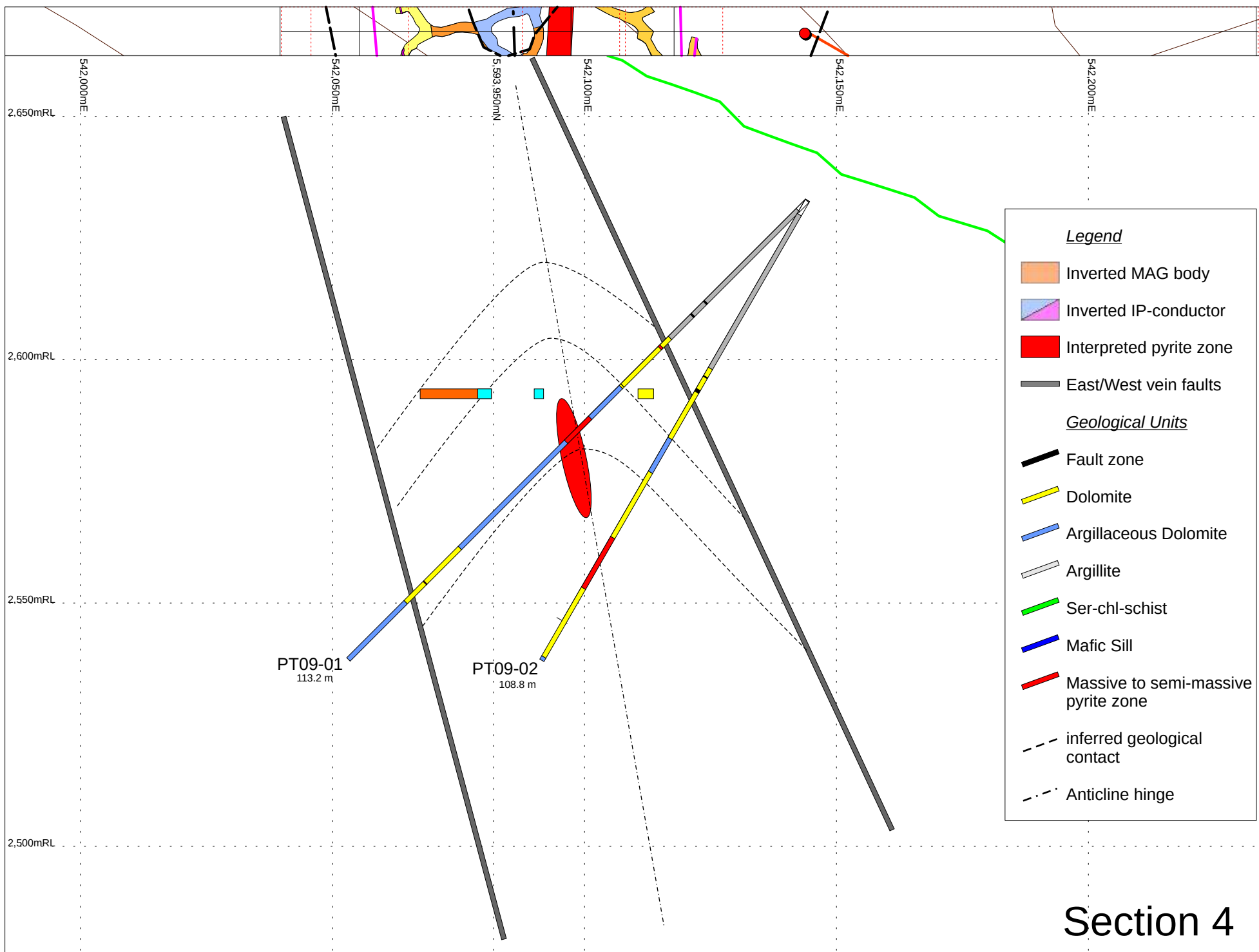
APPENDIX 3

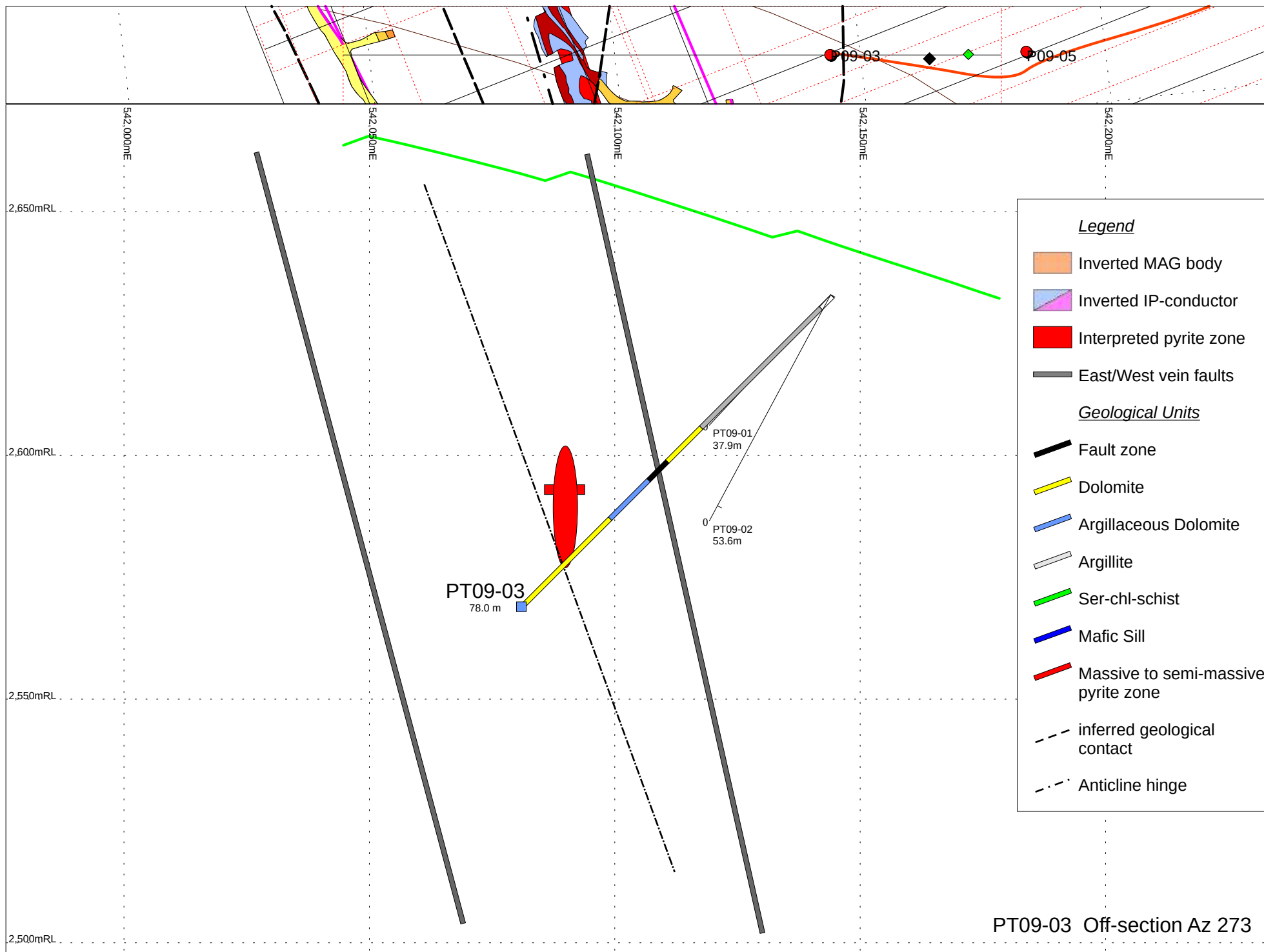
Drill Sections

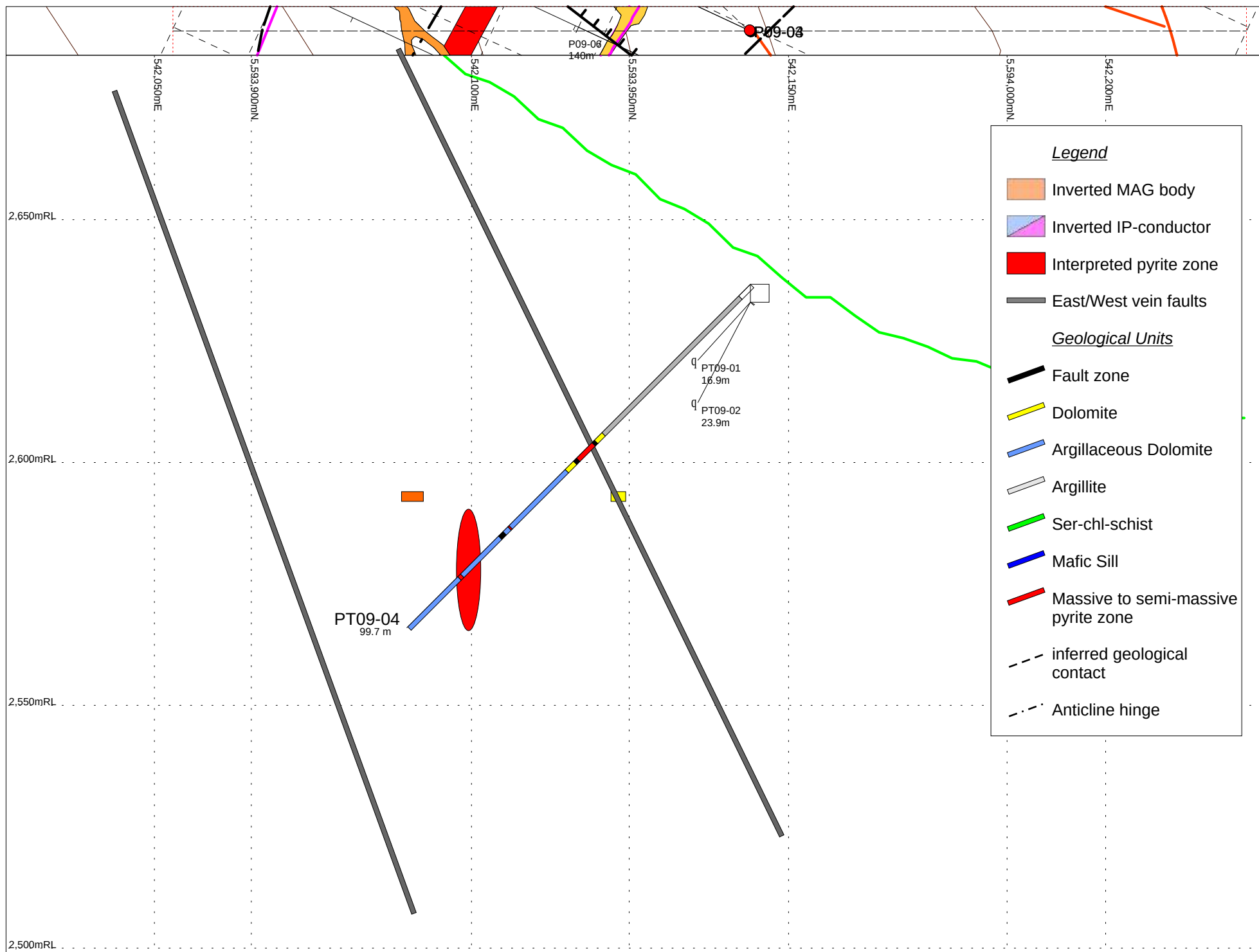












APPENDIX 4

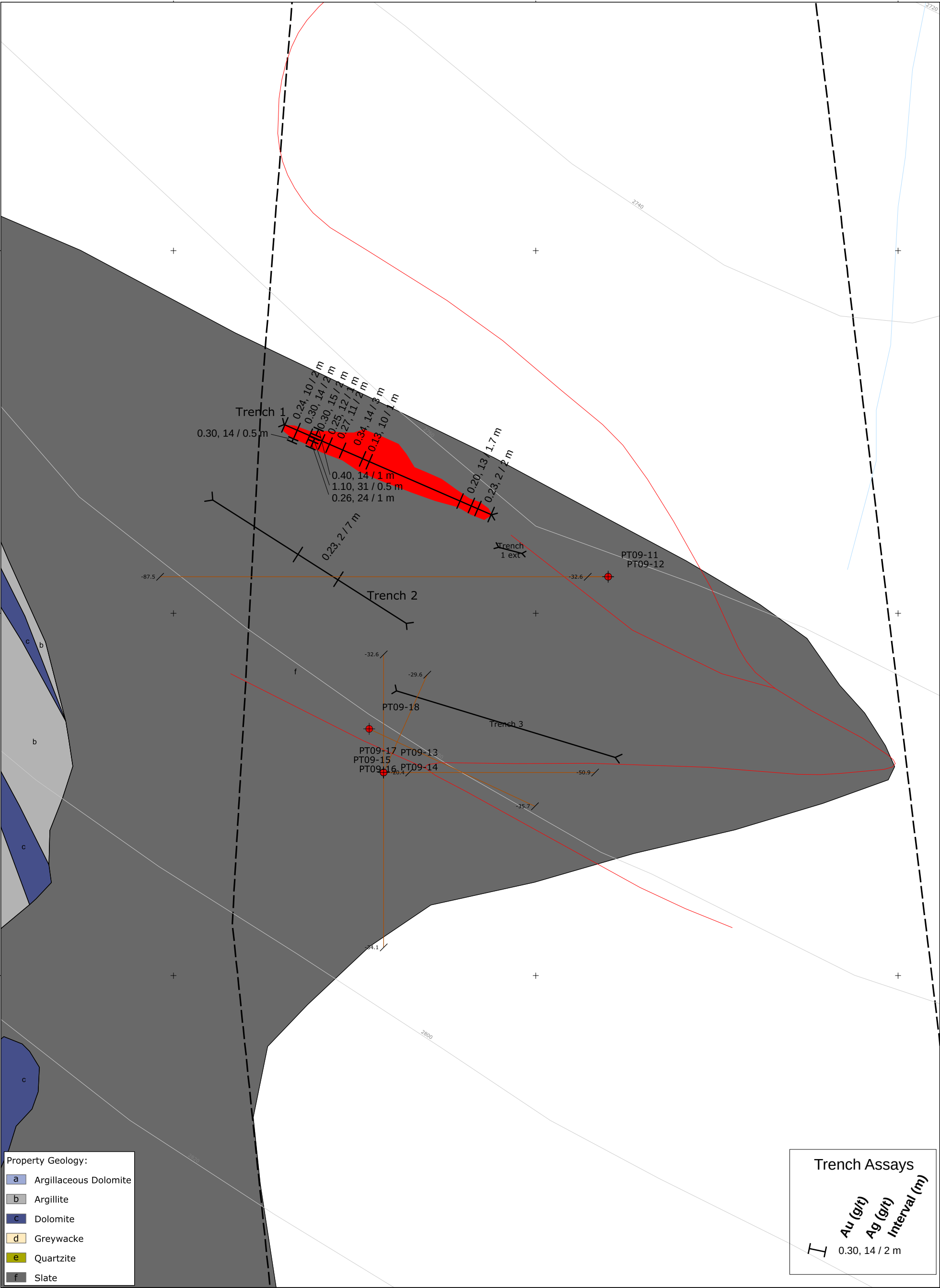
Trench, Surface and Underground Sample Data

Sample Number	Date	Area	UTM E	UTM N	Elev	Sampler	Description	Au (g/t)	Ag (g/t)*	Cu (%)	Pb (%)	Zn (%)
4254	6-Sep-09	Level 2 shaft	542077	5594033	2605	Krocker	Az 270, dip 0, 1 m continuous chip sample beginning at the E margin of the pyrite lens	1.1	337	0.017	0.1	<0.01
4255	6-Sep-09	Level 2 shaft	542076	5594033	2605	Krocker	1 m continuous chip sample beginning at the west end of sample 4254	0.95	79	0.007	0.03	<0.01
4256	6-Sep-09	Level 2 shaft	542075	5594033	2605	Krocker	1 m continuous chip sample beginning at the west end of sample 4255, and offset in elevation by 50 cm downward from 4255.	0.52	45	0.003	0.02	<0.01
4257	11-Sep-09	Level 1 working	542085	5593998	2595	Didur	4 foot panel sample of pyrite zone in 10 ' below Level 1 workings in a 20' shaft	0.43	19	0.004	0.03	<0.01
66301	11-Sep-09	Level 1 working	542095	5594011	2595	Didur	#1 Main drift; massive py vein 0.3m wide x 10m long	0.6	10	0.005	0.01	<0.01
66302	11-Sep-09	Level 1 working	542085	5593990	2595	Didur	#1 shaft, south wall: 0m - 2m; massive py	0.48	67	0.03	0.05	<0.01
66303	11-Sep-09	Level 1 working	542086	5593989	2595	Didur	#1 shaft, south wall: 2m - 4m; massive py	1	80	0.023	0.05	<0.01
66304	11-Sep-09	Level 1 working	542087	5593992	2595	Didur	#1 shaft, west wall: 4m - 6m; massive py	0.87	653	0.196	0.27	0.02
66305	11-Sep-09	Level 1 working	542085	5593911	2595	Didur	#1 shaft, west wall: 6m - 7m; massive py	0.72	378	0.139	0.04	0.02
66306	11-Sep-09	Level 1 working	542084	5593984	2595	Didur	X-C between #1 & #2 shafts, NW wall; massive py; 0m - 3m	0.84	51	0.03	0.03	<0.01
66307	11-Sep-09	Level 1 working	542088	5593984	2595	Didur	East wall across from X-C; massive py; 0m - 4m	0.69	87	0.027	0.07	<0.01
66308	11-Sep-09	Level 1 working	542089	5593979	2595	Didur	East wall across from X-C; massive py; 4m - 8m	0.49	48	0.019	0.05	<0.01
66309	11-Sep-09	Level 1 working	542090	5593975	2595	Didur	East wall across from X-C; massive py; 8m - 12m	0.24	57	0.011	0.04	<0.01
66310	11-Sep-09	Level 1 working	542086	5593975	2595	Didur	#2 shaft, north wall; massive py; 0m - 1.5m (specs. Tetrahedrite)	0.94	2471	1.459	0.14	0.16
66311	11-Sep-09	Level 1 working	542088	5593965	2595	Didur	#2 shaft, south wall; massive py; 0m - 1.5m (green/blue staining)	0.28	189	0.09	0.08	0.01
66312	11-Sep-09	Level 1 working	542088	5593960	2595	Didur	North wall, south of pillar; massive py; 0m - 2m (tetrahedrite)	0.61	1050	0.493	0.57	0.05
66313	11-Sep-09	Level 1 working	542087	5593956	2595	Didur	South 'room', west wall; massive py; 0m - 1.5m	0.72	216	0.128	0.04	0.01
66314	11-Sep-09	Level 1 working	542096	5593951	2595	Didur	East drift, west wall, low to floor; massive py vein 0.3m wide; 0m - 6m	0.37	383	0.122	0.17	0.01
66315	11-Sep-09	Level 1 working	542077	5593941	2595	Didur	Roundabout, north sample; massive, hard dark brown	0.08	43	0.025	0.01	0.01
66316	11-Sep-09	Level 1 working	542079	5593938	2595	Didur	Roundabout, south sample @ fault; massive, hard dark brown	0.02	30	0.019	0.01	0.02
66317	11-Sep-09	Level 1 working	542062	5593923	2595	Didur	West drift, south of X-C; 10-12" wide py vein along N-S fault	1.73	19	0.005	0.02	<0.01
66318	11-Sep-09	Level 1 working	542062	5593940	2595	Didur	West drift: south face of slash in West vein, north of X-C (tetrahedrite?)	1.17	19	0.009	0.01	<0.01
66319	11-Sep-09	Level 1 working	542057	5593945	2595	Didur	West drift, north fault; qtz, py narrow vein along fault	0.77	8	0.003	0.01	0.01
66320	11-Sep-09	Level 1 working	542117	5593947	2595	Didur	East drift: north face; qtz, sph, gal. vein; 0 - 40cm	0.16	116	0.049	0.04	0.01
66321	11-Sep-09	Level 1 working	542118	5593936	2595	Didur	East drift: qtz vein dk to light brown sp? + gal & py; 0m - 9m	0.15	312	0.042	5.48	0.02
66322	11-Sep-09	Level 1 working	542116	5593935	2595	Didur	East drift: 115 + 5m east; massive sulphides (sp, gal & py)	0.05	515	0.026	9.75	0.02
66323	11-Sep-09	Level 1 working	542116	5593932	2595	Didur	East drift: 115 + 8m east; massive sulphides (sp, gal & py)	0.26	14	0.003	0.16	<0.01
66324	11-Sep-09	Level 1 working	542116	5593930	2595	Didur	East drift: 115 + 10m east; massive sulphides (sp, gal & py)	0.39	15	0.006	0.04	<0.01
66325	11-Sep-09	Level 1 working	542117	5593922	2595	Didur	East drift: 116 + 2m east; massive sulphides vein on east wall; 2m - 7m	0.41	97	0.05	0.06	<0.01
66326	11-Sep-09	Level 1 working	542118	5593913	2595	Didur	East drift: 117 + 2m west; massive sulphides vein/mass	0.15	12	0.006	0.02	<0.01
66327	11-Sep-09	Level 1 working	542123	5593884	2595	Didur	East drift: 118 + 8m east; 4-6" py + qtz vein	1.67	118	0.058	0.05	<0.01
66328	11-Sep-09	Level 1 working	542124	5593877	2595	Didur	East drift: 119 + 2m west; 6" py + qtz vein	1.83	172	0.074	0.12	0.01

Sample Number	Date	Area	UTM E	UTM N	Elev	Sampler	Description	Au (g/t)	Ag (g/t)*	Cu (%)	Pb (%)	Zn (%)
66329	11-Sep-09	Level 1 working	542126	5593872	2595	Didur	East drift: 119 + 3m east; 8" py/qtz vein + tetrah? & whitish secondary	1.33	365	0.132	0.71	0.01
66330	11-Sep-09	Level 1 working	542130	5593859	2595	Didur	East drift: near end face; 3-4" py/qtz vein	1.73	1821	0.733	0.23	0.04
66351	18-Sep-09					Didur	Grab Sample (dark pyrite).	0.22	9	<0.001	0.1	<0.01
66352	18-Sep-09	Trench 2	542069	5593707		Didur	Trench #2, Grab samples along 7 m vein (8-10" wide).	0.23	2	<0.001	0.01	<0.01
66353	18-Sep-09	Trench 1	542066	5593726		Didur	Trench #1, pyrite, 0 - 2 m from east contact.	0.2	13	<0.001	0.09	<0.01
66354	18-Sep-09	Trench 1	542069	5593724		Didur	Trench #1, chip sample, 0 - 2 m from west contact, friable massive py, some black streaks.	0.24	10	<0.001	0.04	<0.01
66355	18-Sep-09	Trench 1	542072	5593723		Didur	Trench #1, chip sample, 2 - 4 m from west contact, friable massive py.	0.3	14	0.007	0.19	<0.01
66356	18-Sep-09	Trench 1	542076	5593721		Didur	Trench #1, chip sample, 4 - 6 m from west contact, friable massive py.	0.3	15	0.001	0.09	<0.01
66357	18-Sep-09	Trench 1	542079	5593720		Didur	Trench #1, chip sample, 6 - 7 m from west contact, good solid massive py chips.	0.25	12	0.001	0.06	<0.01
66358	18-Sep-09					Didur	Appears to be Fe-Carbonate with some galena, WP128, Taken by Rod & Carl Seel	0.01	<2	<0.001	<0.01	<0.01
66359	18-Sep-09	Trench 1	542083	5593718		Didur	Trench #1, chip sample, 7 - 9 m from west contact, variable hard chips to soft friable massive pyrite.	0.27	11	<0.001	0.07	<0.01
66360	18-Sep-09	Trench 1	542086	5593717		Didur	Trench #1, chip sample, 9 - 12 m from west contact, friable to hard chips of massive pyrite.	0.34	14	0.002	0.12	<0.01
66361	18-Sep-09	Trench 1	542090	5593715		Didur	Trench #1, chip sample, 12 - 13 m from west contact, hard massive pyrite chips.	0.13	10	<0.001	0.12	<0.01
66362	18-Sep-09	Trench 1	542093	5593714		Didur	Trench #1, chip sample, 3 - 4.7 m from east.	0.24	11	<0.001	0.06	<0.01
66363	18-Sep-09	Trench 1	542073	5593725		Didur	10 - 20 % black material on massive pyrite.	0.6	45	<0.001	0.22	<0.01
66364	23-Sep-09	Trench 1	542077	5593723		Didur	Trench #1, T-1 #1, 2 m from west contact, top 0.5 m massive greenish pyrite, granular with some chips.	0.3	14	0.078	0.54	<0.01
66365	23-Sep-09	Trench 1	542081	5593721		Didur	Trench #1, T-1 #2, west contact + 5m east, top 0.5 to 1.5 m, massive greenish pyrite with black streaks.	0.26	24	0.002	0.19	<0.01
66366	23-Sep-09	Trench 1	542086	5593719		Didur	Trench #1, T-1 #3, 1.5 to 2.5 m, greenish massive pyrite with abundant black streaks/masses. Sampled only 1.5 to 2.0 m, basal 2.0 to 2.5 m is weathered dolomite.	1.1	31	<0.001	0.16	<0.01
66367	23-Sep-09	Trench 1				Didur	Trench #1, T-1#4, 2.5 to 3.5 m, massive greyish-green pyrite, sugary, friable to chips.	0.4	14	<0.001	0.07	<0.01
66368	23-Sep-09	Trench 1				Didur	T-1 "Concentrate", 1.5 to 3.5 m.	0.96	33	<0.001	0.16	<0.01
66369	15-Sep-09					Didur	Grab sample, WP129, Massive galena, taken by Rod & Carl	0.4	1859	0.179	62.37	0.69
66370	15-Sep-09					Didur	Grab sample, WP127, Qtz. Vein with 10% fine to crystalline pyrite.	1.5	46	0.013	0.04	0.01
66371	15-Sep-09					Didur	Grab sample, WP130, Dark grey/purplish coarse crystalline sph?, gal? with fine cpy veinlets, taken by Rod & Carl	0.27	875	0.297	11.04	0.82

Sample Number	Date	Area	UTM E	UTM N	Elev	Sampler	Description	Au (g/t)	Ag (g/t)*	Cu (%)	Pb (%)	Zn (%)
66372	15-Sep-09	Iron Cap				Didur	Grab sample, WP131 (Iron Cap), Blueish grey coarse crystalline galena & pyrite, massive, (sample feels light?), taken by Rod & Carl	0.25	220	0.024	5.77	0.16
66373	15-Sep-09	Iron Cap				Didur	Grab sample, WP131 (Iron Cap), fine to medium grained pyrite in sugery quartz?, taken by Rod & Carl.	0.36	292	0.068	3.77	0.3
PT-01	11-Aug-08	Level 3	542009	5593951	2614	Wetherup	Chip sample (40 cm long) of silicified and pyritic dolomite adjacent to high-grade vein; end of portal drift prior to cross-cut tunnel	0.06	<0.5	0.00	0.00	<0.0005
PT-02	11-Aug-08	Level 3	542009	5593951	2614	Wetherup	Chip sample (40 cm long) 40 cm from high-grade vein; end of portal drift prior to cross-cut tunnel	0.03	<0.5	0.00	0.00	0.01
PT-03	12-Aug-08	S of Mine	541899	5593678	2831	Wetherup	Silicified dolomite with 2-3% disseminated py	<0.01	<0.5	0.00	0.07	0.03
PT-04	12-Aug-08	S of Mine	542039	5593467	2912	Wetherup	Massive galena-sphalerite body; replacement in dolomite; 1-3 m long and 0.5-1 m wide; discordant to layering	0.99	1368	0.59	50.87	1.42
PT-05	12-Aug-08	Iron cap	542122	5593332	2918	Wetherup	C.g. massive gal-sph with v. little py	0.25	723	0.24	12.3	1.03
PT-06	12-Aug-08	Iron cap	542122	5593332	2918	Wetherup	Gal-sph interlayered with py within a host of highly siliceous and fe-cb altered phyllite and dolomite	0.21	57	0.01	0.88	0.22
PT-07	12-Aug-08	Iron cap	542122	5593332	2918	Wetherup	highly siliceous and fe-cb altered phyllite and dolomite with qtz and siderite veins	<0.01	4	0.00	0.10	0.03
PT-08	12-Aug-08	Iron cap	542122	5593332	2918	Wetherup	Gal-sph-py material, 10-15% py and < 5% iron carb veinlets	0.76	1479	0.07	40.81	0.27
PT-09	12-Aug-08	Iron cap	542122	5593332	2918	Wetherup	Massive pyrite	0.72	1488	0.16	38.68	0.68
PT-10	13-Aug-08	Level 1	542087	5593995	2598	Wetherup	Massive pyrite zone within Level 1 workings	0.65	1210	0.40	0.99	0.05
PT-11	13-Aug-08	Level 1	542093	5593997	2598	Wetherup	Massive pyrite zone within Level 1 workings	0.39	266	0.11	0.71	0.02
PT-12	13-Aug-08	Level 1	542092	5593970	2598	Wetherup	Massive pyrite zone within Level 1 workings	0.31	387	0.19	0.18	0.02
PT-13	13-Aug-08	Level 1	542091	5593976	2598	Wetherup	Massive pyrite zone within Level 1 workings	0.52	340	0.20	0.16	0.02
PT-14	13-Aug-08	Level 1	542094	5593960	2598	Wetherup	Massive pyrite zone within Level 1 workings	1.06	1224	0.85	0.24	0.08
PT-15	13-Aug-08	Level 1	542125	5593958	2598	Wetherup	Vein (?) knot of py-gal-sph adjacent to/within fault	0.12	57	0.03	0.03	0.01
PT-16	13-Aug-08	Level 1	542128	5593938	2598	Wetherup	Vein py-gal-sph-cal-fe-cb; 2-3 cm wide generally upto 30 cm wide	0.66	53	0.03	0.03	0.01
PT-17	13-Aug-08	Level 1	542130	5593926	2598	Wetherup	Vein py-gal-sph-cal-fe-cb; 4 cm wide	0.85	29	0.02	0.04	0.00
PT-18	13-Aug-08	Level 1	542146	5593884	2598	Wetherup	Vein py-gal-sph-cal-fe-cb; 4-5 cm wide	2.1	235	0.09	0.68	0.01
PT-19	13-Aug-08	Level 1	542071	5593942	2598	Wetherup	Massive py+/-sph+/-gal with minor qtz-cb vein mineralization along fault zone; 1 m wide here generally 2-3 cm elsewhere	1.13	43	0.01	0.02	0.00
PT-20	13-Aug-08	Level 1	542071	5593942	2598	Wetherup	Qtz-cb-sph-gal-py material from fault zone; highly siliceous wall rock	0.16	28	0.02	0.02	0.00
PT-21	13-Aug-08	Level 3	542029	5593940	2614	Wetherup	Second fault in Level 3 tunnels (after cross-cut); vein mostly pyrite with lesser gal-sph	3.06	15	0.01	0.03	0.00
PT-22	13-Aug-08	Level 3	542015	5593948	2614	Wetherup	On cross-cut vein; highly silicified and qtz veined host; vein contains mainly py with clots of black mineral (tet?)	0.3	5	0.00	0.01	0.00
PT-23	13-Aug-08	Level 3	542012	5593951	2614	Wetherup	High grade tet clots along vein are 10-30 cm in area and 1 cm thick mostly py-qtz in veins little gal-sph.	18.32	1437	2.59	0.05	0.14
PT-24	13-Aug-08	Level 3	542012	5593951	2614	Wetherup	Typical vein material in incline	0.68	21	0.02	0.01	0.00

Sample Number	Date	Area	UTM E	UTM N	Elev	Sampler	Description	Au (g/t)	Ag (g/t)*	Cu (%)	Pb (%)	Zn (%)
PT-25	13-Aug-08	Level 3	542009	5593951	2614	Wetherup	Main vein structure at end of portal drift ~ 1-2 m from the chips PT-01 and 02; po-py-tet vein	7.74	1371	1.15	0.17	0.15
PT-26	13-Aug-08	Level 3	542030	5594049	2614	Wetherup	Portal 3; cobble of sph-py	2.85	3	0.01	0.01	0.05
PT-27	13-Aug-08	Dump	539921	5594865	2032	Wetherup	Qtz- frag with 15-20% py	0.06	20	0.02	0.01	0.00
PT-28	13-Aug-08	Dump	539921	5594869	2032	Wetherup	Qtz with 30-40% py	3.02	1927	0.65	0.24	0.06
PT-29	13-Aug-08	Dump	539920	5594872	2032	Wetherup	Pyritic "sand" which comprises most of the dump material	1.36	746	0.09	0.17	0.01
PT-30	13-Aug-08	Dump	539918	5594864	2029	Wetherup	Qtz with 5% py	0.05	12	0.00	0.00	0.00
PT-31	13-Aug-08	Dump	539902	5594875	2028	Wetherup	Qtz with 10-20% py	0.09	69	0.02	0.01	0.00
PT-32	13-Aug-08	Dump	539905	5594871	2028	Wetherup	Pyrite "sand" from base of dump	1.68	814	0.15	0.09	0.01
PT-33	11-Aug-08	Level 3	542009	5593951	2614	Wetherup	Mineralized vein (tet-gal-sph) at end of portal drift	4.66	1451	0.97	0.09	0.05
PT-34	11-Aug-08	Level 1	542082	5594066	2598	Wetherup	Grab sample of silicified and pyritic wall rock	0.05	7	0.00	0.00	<0.0005
PT-35	11-Aug-08	Level 1	542082	5594066	2598	Wetherup	Grab sample of silicified and pyritic wall rock	0.05	11	0.01	0.00	0.00
PT-36	11-Aug-08	Level 3	542030	5594049	2614	Wetherup	High grade tet-gal-sph vein cobble; float from outside Portal 3	5.81	1105	0.90	0.05	0.07



Map Features:

Showing Locations	DDH Trace	Surface Sulphide Body
Ptarmigan	2009 Trenching	Sub-Surface Sulphide Body
Iron Cap	Ptarmigan Interpreted Faults	Level 1 Adit
Mineral Showings	Ptarmigan Interpreted Folds	Rupestris Claims
DDH Collar	Access Roads	Rupestris Crown Grants
	Drainage	

Ptarmigan Property,
Radium Hot Springs,
BC, Canada.

Scale
0 2 4 6 8 10 Meters

Rupestris Mines Inc.

Upper Ptarmigan Overview,
Ptarmigan Project, British Columbia, Canada.

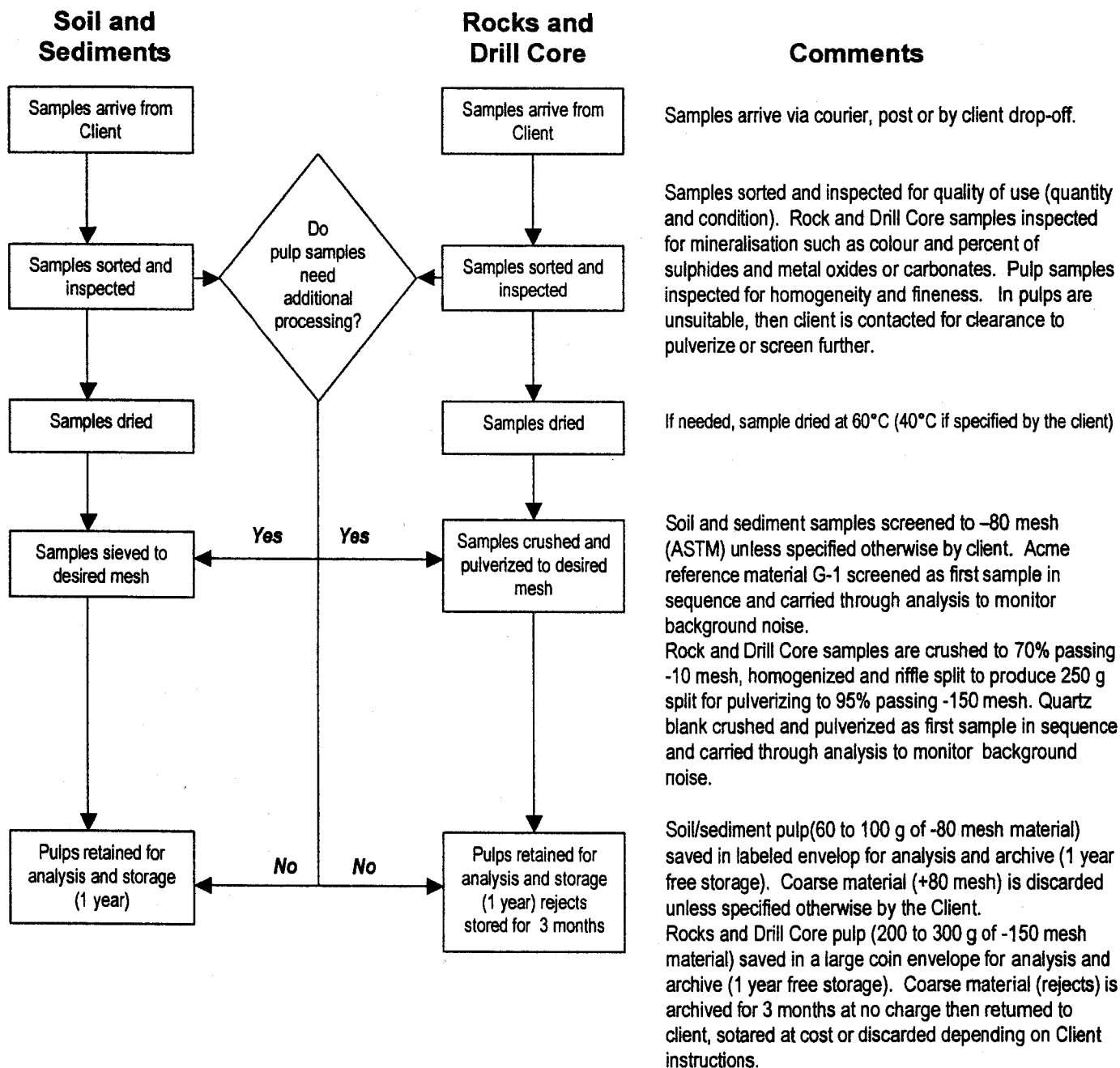
Date: 26/10/2010	Scale: 1:500	Figure:
Projection: UTM, NAD83, Zone 11N Office/Author: Vancouver/gcn		

Caracle Creek International Consulting Inc.
Geological & Geophysical Consultants

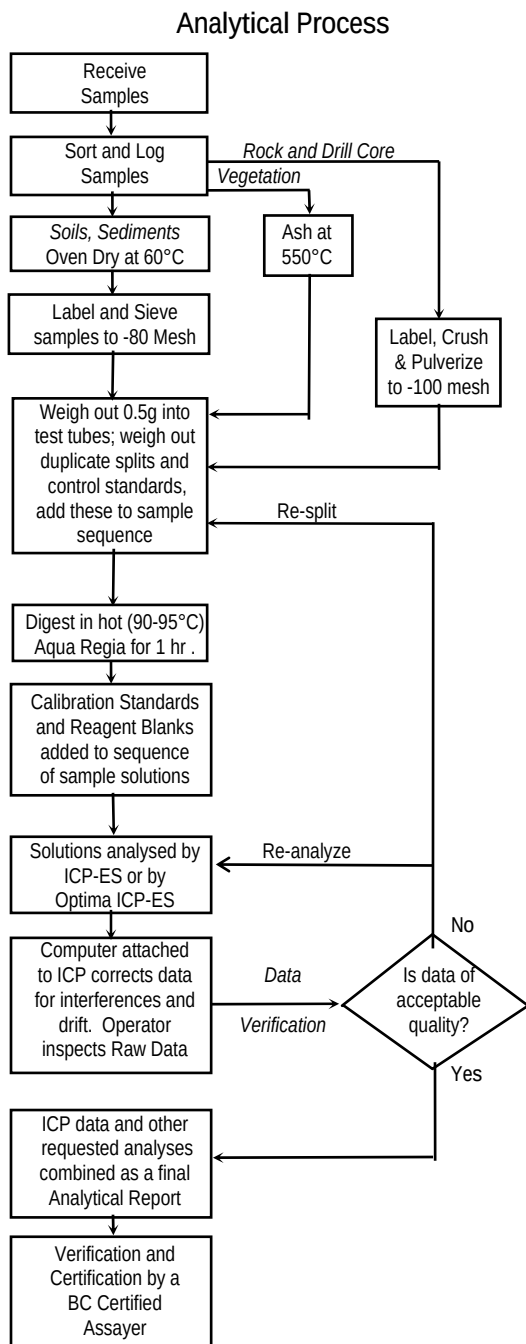
APPENDIX 5

Assay Certificates

General Sample Preparation Methods



METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1D & 1DX - ICP ANALYSIS – AQUA REGIA



Comments

Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 m), rocks and drill core are crushed and pulverized to -150 mesh (-100 m). Vegetation is dried (60°C) and pulverized or dry ashed (550°C). Moss-mat samples are dried (60°C), pounded then sieved to recover -80 mesh sediment or ashed at 550°C then sieved to -80 mesh with potential loss by volatilization of Hg, As, Sb, Bi and Cr. Aliquots of 0.5 g are weighed into test tubes. Duplicate aliquots are taken from two samples in each batch of 34 samples to measure precision. An aliquot of sample standard STD C3 is added to each batch to monitor accuracy.

Sample Digestion

Aqua Regia is a 2:2:2 mixture of ACS grade conc. HCl, conc. HNO₃ and demineralized H₂O. Aqua Regia is added to each sample and to two empty reagent blank test tubes in each batch of samples. Sample solutions are digested for 1 hr in a hot water bath (90-95°C).

Sample Analysis

Group 1D: sample solutions are aspirated into a Jarrel Ash AtomComp 800 or 975 ICP emission spectrograph to determine 30 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Group 1DX: sample solutions are aspirated into a Perkin Elmer Optima 3300 Dual View ICP emission spectrograph to determine 35 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Ti, Sr, Th, Ti, U, V, W, Zn.

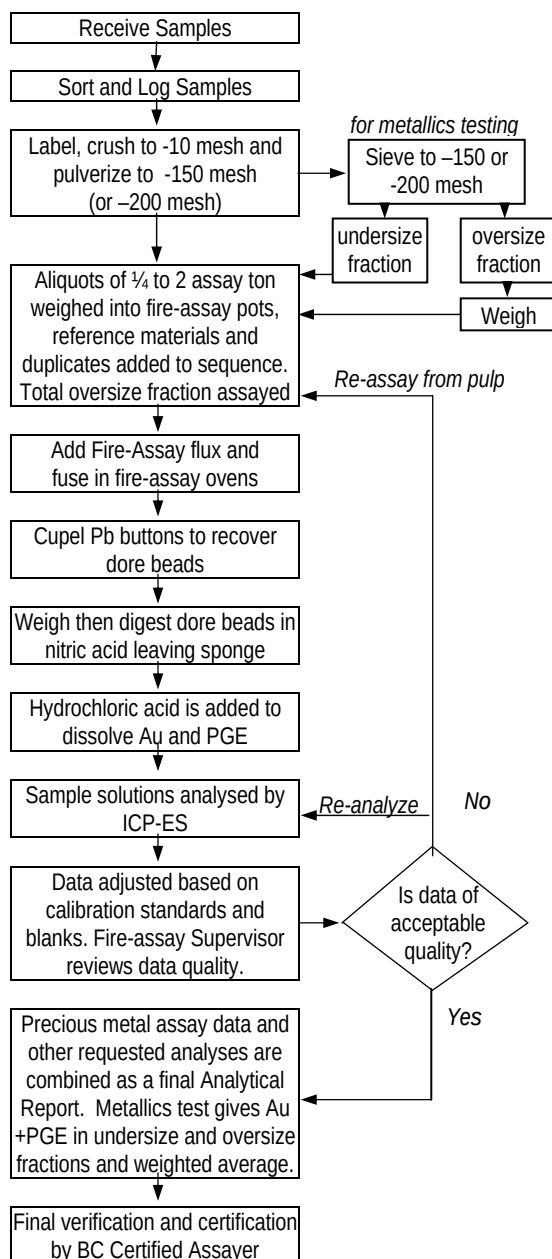
Data Evaluation

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.



METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 6 - PRECIOUS METAL ASSAY

Analytical Process



Comments

Sample Preparation

Rocks and drill core are crushed to 75% minus 10 mesh (-1.7 mm), a 250 g subsample is riffle split then pulverized to 95% minus 150 mesh (-100 microns) or minus 200 mesh upon request. Reject and pulp duplicate splits are taken from two samples in every 34 to monitor sub-sampling variation related to sample inhomogeneity and analytical variation, respectively. One quarter (7.5 g) to two assay ton (58.4 ±0.01g) splits are weighed. STD Au-1 (Au reference material), STD Ag-2 (Ag reference material) or STD FA-10R (Au, Pt, Pd, Rh reference material) and a blank are added to each analytical batch to monitor accuracy. Results are reported in imperial (oz/t) or metric (gm/mt) measure. For metallics testing, 500+ gm is pulverized and sieved through a 150 or 200 mesh screen. The oversize material on the screen is weighed and assayed in total. A 1 or 2 assay ton split of the undersize fraction is also assayed.

Sample Digestion

Sample split is mixed with fire-assay fluxes containing PbO litharge and a Ag inquart then heated at 1000°C for 1 hour to liberate Au + PGE. After cooling, lead buttons are recovered and cupelled at 950°C to render Ag ±Au ±Pt ±Pd ±Rh dore beads. Beads are weighed then leached in 1 mL of conc. HNO₃ at >95°C to dissolve Ag leaving Au ±PGE sponges. A Au inquart is used for Rh assays where the concentration is likely to exceed 10 ppb. The sponge is dissolved by adding 6 mL of 50% HCl.

Sample Analysis

The solutions are analyzed by ICP-ES (Jarrel Ash Atom-Comp model 800 or 975) to determine Au, Pt, Pd and Rh. Au or PGEs over 1 oz/t are determined by gravimetric finish. Ag is determined both by fire assay and wet assay. Ag over 10 oz/t is reported from the fire assay while concentrations <10 oz/t are reported from the wet assay. Metallics testing reports concentrations of Au ±PGEs in the undersize fraction, the oversize fraction and the calculated weighted average of these fractions.

Data Evaluation

Raw and final data undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

Client: Caracle Creek International Consulting Inc.

Suite 1409 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: August 19, 2008
Report Date: September 29, 2008
Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN08008436.1

CLIENT JOB INFORMATION

Project: RUP-PT
Shipment ID:
P.O. Number
Number of Samples: 36

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek International Consulting Inc.
Suite 1409 - 409 Granville Street
Vancouver BC V6C 1T2
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	36	Crush, split and pulverize rock to 200 mesh		
G6	36	Fire Assay fusion Au by ICP-ES	30	Completed
7AX	36	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed
7AR.1	4	1:1:1 Aqua Regia digestion ICP-ES analysis	0.1	Completed
DIS-RJT	36	Warehouse handling / Disposition of reject		

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

CERTIFICATE OF ANALYSIS

VAN08008436.1

		Method Analyte Unit MDL																				
			WGHT	G6	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
			Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
			kg	gm/mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
PT-01	Rock	0.57	0.06	0.8	4.2	3.7	<5	<0.5	1.6	0.7	209	1.24	130	0.6	1.6	<5	<0.5	2.2	<0.5	<10	0.11	
PT-02	Rock	0.65	0.03	<0.5	6.6	6.7	55	<0.5	1.8	<0.5	222	0.74	64	1.0	2.0	<5	<0.5	3.5	<0.5	<10	0.08	
PT-03	Rock	0.63	<0.01	1.2	14.0	714.6	342	<0.5	12.5	10.0	110	1.87	11	0.8	3.9	<5	<0.5	2.2	<0.5	<10	<0.01	
PT-04	Rock	0.87	0.99	<0.5	5914	>40000	14204	1368	1.2	0.8	313	3.20	954	1.5	<0.5	24	109.2	8715	1.3	<10	<0.01	
PT-05	Rock	1.17	0.25	1.3	2385	>40000	10312	722.9	1.4	1.4	111315	17.97	1342	0.5	1.7	<5	85.4	1273	<0.5	14	0.31	
PT-06	Rock	0.68	0.21	<0.5	131.4	8823	2199	57.2	6.8	1.1	14341	45.04	6570	0.5	1.6	<5	3.7	156.5	<0.5	<10	0.03	
PT-07	Rock	0.71	<0.01	0.6	39.2	977.1	335	4.1	11.3	7.6	912	0.68	20	<0.5	6.1	<5	2.8	18.6	<0.5	<10	0.19	
PT-08	Rock	0.87	0.76	0.6	719.4	>40000	2748	1479	1.1	<0.5	25986	19.93	3268	0.7	0.8	<5	35.9	1740	<0.5	<10	0.06	
PT-09	Rock	0.52	0.72	1.9	1566	>40000	6810	1488	3.2	1.1	3193	24.45	7516	0.7	<0.5	17	62.3	2281	<0.5	<10	0.01	
PT-10	Rock	1.70	0.65	1.6	4005	9884	462	1210	2.4	1.4	230	44.99	9362	<0.5	<0.5	<5	8.7	4285	1797	<10	0.03	
PT-11	Rock	0.98	0.39	0.9	1096	7051	221	266.4	4.8	3.8	62	39.40	9803	0.6	1.4	<5	3.7	967.5	93.8	<10	0.04	
PT-12	Rock	1.26	0.31	1.1	1935	1755	221	387.4	2.8	2.2	588	39.82	7207	<0.5	<0.5	10	5.4	1365	399.3	<10	0.98	
PT-13	Rock	2.06	0.52	0.5	1980	1572	220	340.2	2.4	0.9	49	42.27	8470	0.6	<0.5	<5	4.2	1579	159.4	<10	0.05	
PT-14	Rock	1.70	1.06	1.2	8549	2417	807	1224	2.3	1.9	34	40.75	8429	<0.5	<0.5	<5	19.0	6457	327.7	<10	0.06	
PT-15	Rock	0.51	0.12	0.7	285.2	315.1	76	56.5	21.4	16.6	45040	21.92	1123	<0.5	<0.5	13	<0.5	220.2	9.3	<10	3.91	
PT-16	Rock	1.61	0.66	1.9	332.1	314.2	95	52.8	5.8	3.2	12136	24.17	3225	<0.5	<0.5	40	0.6	211.9	11.2	<10	7.82	
PT-17	Rock	1.13	0.85	1.0	201.9	400.4	32	29.2	5.5	5.7	4405	39.42	4546	<0.5	<0.5	19	<0.5	126.3	4.8	<10	0.65	
PT-18	Rock	1.19	2.10	0.6	896.8	6761	74	234.7	3.4	2.1	578	43.49	16193	<0.5	<0.5	<5	0.8	917.8	163.9	<10	0.23	
PT-19	Rock	1.40	1.13	<0.5	81.1	247.3	21	42.6	2.8	2.0	210	20.19	4118	0.6	0.6	<5	<0.5	64.0	11.4	<10	0.05	
PT-20	Rock	1.54	0.16	0.6	154.1	171.2	23	27.9	8.5	15.4	8457	5.35	284	0.6	1.7	<5	<0.5	83.0	5.0	<10	0.23	
PT-21	Rock	1.09	3.06	0.6	74.9	298.6	47	14.7	3.9	3.5	309	32.08	29733	<0.5	<0.5	<5	<0.5	140.5	17.8	<10	<0.01	
PT-22	Rock	1.26	0.30	0.5	18.7	75.7	8	4.5	3.2	1.0	69	21.33	3705	<0.5	0.8	<5	<0.5	14.2	2.9	<10	0.02	
PT-23	Rock	0.68	18.32	<0.5	25853	483.0	1402	1437	4.4	0.9	6743	25.20	35197	<0.5	1.1	13	25.9	17125	402.1	<10	4.42	
PT-24	Rock	0.93	0.68	<0.5	150.5	82.9	25	20.8	4.1	0.8	138	19.04	3732	<0.5	1.0	<5	<0.5	79.2	5.6	<10	0.08	
PT-25	Rock	0.83	7.74	0.6	11516	1749	1475	1371	2.6	1.0	2710	34.79	9223	<0.5	<0.5	15	13.4	6606	194.6	<10	1.33	
PT-26	Rock	1.29	2.85	0.8	56.9	110.4	516	3.3	5.7	2.5	69998	31.82	3605	<0.5	<0.5	<5	1.3	16.1	2.9	<10	0.17	
PT-27	Rock	0.98	0.06	1.5	220.7	78.6	39	19.7	3.2	1.4	2333	2.45	345	<0.5	<0.5	82	<0.5	97.4	3.8	<10	8.92	
PT-28	Rock	1.54	3.02	0.9	6540	2421	628	1927	2.4	0.6	483	25.58	18743	<0.5	<0.5	<5	15.4	7140	440.6	<10	0.02	
PT-29	Rock	1.01	1.36	1.7	880.0	1659	93	745.9	5.2	1.8	77	29.88	5744	<0.5	<0.5	<5	1.7	2447	272.0	<10	0.13	
PT-30	Rock	0.88	0.05	<0.5	30.2	39.5	5	12.0	0.9	<0.5	62	1.35	221	<0.5	<0.5	<5	<0.5	50.8	3.0	<10	<0.01	

CERTIFICATE OF ANALYSIS

VAN08008436.1

	Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Pb
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%
	MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2	0.01
PT-01	Rock	0.001	3.3	10.4	0.08	6	0.002	0.07	<0.01	0.05	<0.5	0.06	<0.5	<0.5	1.4	<5	<2	
PT-02	Rock	0.003	3.6	7.1	0.05	6	<0.001	0.06	<0.01	0.04	<0.5	<0.05	<0.5	<0.5	0.6	<5	<2	
PT-03	Rock	0.001	9.7	12.2	0.02	62	0.001	0.21	<0.01	0.22	<0.5	0.09	1.8	<0.5	<0.5	<5	3	
PT-04	Rock	<0.001	<0.5	1.5	<0.01	13	<0.001	<0.01	<0.01	<0.01	<0.5	1.75	<0.5	0.6	13.7	<5	3	50.87
PT-05	Rock	0.003	<0.5	1.9	5.71	8	<0.001	<0.01	<0.01	<0.01	<0.5	1.42	<0.5	<0.5	7.5	<5	3	12.30
PT-06	Rock	<0.001	<0.5	1.6	0.63	12	<0.001	0.02	<0.01	<0.01	<0.5	0.13	1.0	<0.5	38.5	<5	2	
PT-07	Rock	0.024	30.2	4.4	0.12	45	0.001	0.21	<0.01	0.19	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2	
PT-08	Rock	<0.001	<0.5	2.2	1.23	<5	<0.001	0.02	<0.01	<0.01	<0.5	1.50	2.4	<0.5	16.4	<5	<2	40.81
PT-09	Rock	0.002	<0.5	1.6	0.19	7	<0.001	0.01	<0.01	<0.01	<0.5	1.36	<0.5	<0.5	30.3	<5	<2	38.68
PT-10	Rock	0.005	<0.5	2.5	<0.01	16	<0.001	0.02	<0.01	0.01	<0.5	0.50	<0.5	<0.5	47.0	<5	9	
PT-11	Rock	0.009	2.2	2.9	0.01	48	<0.001	0.09	<0.01	0.07	<0.5	0.13	<0.5	<0.5	42.1	<5	<2	
PT-12	Rock	0.001	1.6	3.5	0.51	18	<0.001	0.02	<0.01	0.02	<0.5	0.21	<0.5	<0.5	43.2	<5	<2	
PT-13	Rock	0.002	2.6	4.2	0.02	5	<0.001	<0.01	<0.01	<0.01	<0.5	0.14	<0.5	<0.5	44.9	<5	2	
PT-14	Rock	0.003	<0.5	3.0	0.05	18	<0.001	0.03	<0.01	0.02	<0.5	0.73	<0.5	<0.5	42.6	<5	<2	
PT-15	Rock	0.004	1.5	3.2	8.77	23	<0.001	0.04	<0.01	0.03	<0.5	0.08	0.8	<0.5	12.8	<5	<2	
PT-16	Rock	0.002	6.7	2.9	4.84	16	<0.001	0.02	<0.01	<0.01	<0.5	0.05	<0.5	<0.5	24.6	<5	<2	
PT-17	Rock	0.002	0.6	3.4	1.35	17	<0.001	<0.01	<0.01	<0.01	<0.5	2.08	<0.5	<0.5	41.2	<5	<2	
PT-18	Rock	0.001	0.7	2.9	0.18	65	<0.001	0.07	<0.01	0.06	<0.5	2.63	0.6	<0.5	42.9	<5	<2	
PT-19	Rock	0.005	25.1	11.6	0.05	42	<0.001	0.06	<0.01	0.05	209.3	0.23	<0.5	<0.5	21.3	<5	<2	
PT-20	Rock	0.030	4.5	12.0	0.93	30	<0.001	0.10	<0.01	0.09	<0.5	0.12	1.1	<0.5	3.2	<5	<2	
PT-21	Rock	0.002	1.5	7.5	0.06	13	<0.001	0.07	<0.01	0.06	14.5	0.48	<0.5	<0.5	32.6	<5	<2	
PT-22	Rock	<0.001	1.1	8.5	0.01	<5	<0.001	0.02	<0.01	0.01	<0.5	0.07	<0.5	<0.5	23.1	<5	<2	
PT-23	Rock	0.001	<0.5	3.8	2.05	23	<0.001	0.02	<0.01	<0.01	2.2	1.96	1.7	<0.5	25.2	<5	<2	
PT-24	Rock	<0.001	2.6	4.9	0.06	<5	<0.001	0.02	<0.01	<0.01	<0.5	0.13	<0.5	<0.5	18.7	<5	<2	
PT-25	Rock	0.003	6.4	3.1	0.66	6	<0.001	<0.01	<0.01	<0.01	8.1	7.65	0.8	<0.5	35.7	<5	<2	
PT-26	Rock	0.004	0.8	2.0	4.03	21	<0.001	0.01	<0.01	0.01	<0.5	0.08	1.8	<0.5	16.9	<5	<2	
PT-27	Rock	0.003	0.7	7.3	4.86	32	<0.001	0.04	<0.01	0.02	<0.5	<0.05	1.5	<0.5	1.2	<5	<2	
PT-28	Rock	0.002	<0.5	3.8	0.01	11	<0.001	0.03	<0.01	0.02	3.7	0.83	0.6	<0.5	28.1	<5	<2	
PT-29	Rock	<0.001	1.3	3.6	0.04	37	<0.001	0.05	<0.01	0.05	16.7	1.49	0.5	<0.5	29.4	<5	2	
PT-30	Rock	0.001	2.8	8.0	<0.01	7	<0.001	0.10	<0.01	0.08	<0.5	<0.05	<0.5	<0.5	1.8	<5	<2	

CERTIFICATE OF ANALYSIS

VAN08008436.1

	Method Analyte Unit MDL	WGHT	G6	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	gm/mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
PT-31	Rock	0.61	0.09	0.5	165.9	103.1	15	68.6	2.0	0.6	33	3.63	989	<0.5	<0.5	<5	<0.5	243.9	15.8	<10	0.02
PT-32	Rock	1.21	1.68	1.4	1487	886.8	119	813.9	3.8	0.9	53	29.51	6609	<0.5	<0.5	<5	2.5	2973	168.5	<10	0.02
PT-33	Rock	1.20	4.66	<0.5	9738	947.4	450	1451	5.7	1.1	530	30.08	45337	<0.5	4.9	<5	3.3	7070	376.6	<10	0.32
PT-34	Rock	0.80	0.05	<0.5	22.0	21.6	<5	6.9	1.4	<0.5	329	0.99	132	<0.5	1.4	<5	<0.5	31.0	1.6	<10	0.10
PT-35	Rock	0.48	0.05	<0.5	81.2	33.2	13	10.7	3.6	0.7	910	1.16	286	<0.5	0.9	<5	<0.5	51.9	2.5	<10	0.37
PT-36	Rock	0.87	5.81	<0.5	8962	544.2	722	1105	3.0	1.1	1100	35.13	11619	<0.5	0.6	<5	6.5	4893	151.1	<10	0.04

CERTIFICATE OF ANALYSIS

VAN08008436.1

	Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
PT-31	Rock	<0.001	<0.5	14.6	0.01	8	<0.001	0.01	<0.01	<0.01	2.0	<0.05	<0.5	<0.5	4.0	<5	<2
PT-32	Rock	0.001	1.0	4.6	0.02	28	<0.001	0.07	<0.01	0.04	28.5	1.59	<0.5	<0.5	30.8	<5	2
PT-33	Rock	0.002	2.1	4.7	0.19	14	<0.001	0.19	<0.01	0.15	45.7	0.32	0.9	<0.5	30.3	<5	<2
PT-34	Rock	0.001	2.8	10.8	0.05	<5	<0.001	0.03	<0.01	0.02	<0.5	0.08	<0.5	<0.5	0.8	<5	<2
PT-35	Rock	0.002	3.3	12.9	0.23	<5	<0.001	0.06	<0.01	0.04	0.9	<0.05	0.6	<0.5	0.5	<5	<2
PT-36	Rock	<0.001	8.6	6.2	0.23	<5	<0.001	0.01	<0.01	0.01	89.3	3.63	0.8	<0.5	34.8	<5	<2

QUALITY CONTROL REPORT

VAN08008436.1

	Method Analyte Unit MDL	WGHT	G6	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca		
		kg	gm/mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%		
		0.01	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01		
Pulp Duplicates																							
PT-08	Rock	0.87	0.76	0.6	719.4	>40000	2748	1479	1.1	<0.5	25986	19.93	3268	0.7	0.8	<5	35.9	1740	<0.5	<10	0.06		
REP PT-08	QC																						
PT-09	Rock	0.52	0.72	1.9	1566	>40000	6810	1488	3.2	1.1	3193	24.45	7516	0.7	<0.5	17	62.3	2281	<0.5	<10	0.01		
REP PT-09	QC					1.5	1569	>40000	6820	1482	3.6	1.1	3262	24.11	7565	0.7	<0.5	17	67.4	2297	<0.5	<10	<0.01
PT-10	Rock	1.70	0.65	1.6	4005	9884	462	1210	2.4	1.4	230	44.99	9362	<0.5	<0.5	<5	8.7	4285	1797	<10	0.03		
REP PT-10	QC					0.59																	
PT-34	Rock	0.80	0.05	<0.5	22.0	21.6	<5	6.9	1.4	<0.5	329	0.99	132	<0.5	1.4	<5	<0.5	31.0	1.6	<10	0.10		
REP PT-34	QC					0.09																	
Reference Materials																							
STD CCU-1C	Standard																						
STD CZN-3	Standard																						
STD CZN-3	Standard																						
STD MP-2	Standard																						
STD OXH55	Standard					1.36																	
STD OXH55	Standard					1.25																	
STD OXH55	Standard					1.32																	
STD OXH55	Standard					1.38																	
STD OXK69	Standard																						
STD OXK69	Standard					3.76																	
STD OXK69	Standard					3.52																	
STD OXK69	Standard					3.47																	
STD PTC-1A	Standard																						
STD SF-3A	Standard					308.5	7762	9913	10819	53.0	3478	181.5	4309	7.90	48	3.8	2.6	55	45.5	9.7	4.6	132	2.58
STD SF-3A	Standard					315.7	7655	9427	10643	52.5	3345	183.2	4174	7.69	40	3.3	2.8	55	45.7	10.1	4.7	130	2.56
STD SF-3A	Standard					275.9	7643	9451	10593	47.7	3362	186.4	4154	7.83	40	2.7	2.8	53	45.8	9.8	4.7	107	2.55
STD PTC-1A Expected																							
STD CCU-1C Expected																							
STD CZN-3 Expected																							

QUALITY CONTROL REPORT

VAN08008436.1

	Method Analyte Unit MDL	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AR.1
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Pb
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%
		0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
Pulp Duplicates																		
PT-08	Rock	<0.001	<0.5	2.2	1.23	<5	<0.001	0.02	<0.01	<0.01	<0.5	1.50	2.4	<0.5	16.4	<5	<2	40.81
REP PT-08	QC																	41.53
PT-09	Rock	0.002	<0.5	1.6	0.19	7	<0.001	0.01	<0.01	<0.01	<0.5	1.36	<0.5	<0.5	30.3	<5	<2	38.68
REP PT-09	QC	0.002	<0.5	1.9	0.19	6	<0.001	0.01	<0.01	<0.01	<0.5	1.36	<0.5	<0.5	29.4	<5	2	
PT-10	Rock	0.005	<0.5	2.5	<0.01	16	<0.001	0.02	<0.01	0.01	<0.5	0.50	<0.5	<0.5	47.0	<5	9	
REP PT-10	QC																	
PT-34	Rock	0.001	2.8	10.8	0.05	<5	<0.001	0.03	<0.01	0.02	<0.5	0.08	<0.5	<0.5	0.8	<5	<2	
REP PT-34	QC																	
Reference Materials																		
STD CCU-1C	Standard																	0.37
STD CZN-3	Standard																	0.18
STD CZN-3	Standard																	0.11
STD MP-2	Standard																	0.04
STD OXH55	Standard																	
STD OXH55	Standard																	
STD OXH55	Standard																	
STD OXH55	Standard																	
STD OXK69	Standard																	
STD OXK69	Standard																	
STD OXK69	Standard																	
STD OXK69	Standard																	
STD PTC-1A	Standard																	0.05
STD SF-3A	Standard	0.054	8.9	177.2	4.33	265	0.121	1.02	0.50	1.04	3.4	0.48	3.2	2.8	5.1	5	11	
STD SF-3A	Standard	0.052	8.9	174.2	4.25	260	0.119	1.03	0.49	0.99	2.9	0.45	2.9	2.8	4.9	<5	10	
STD SF-3A	Standard	0.053	10.0	170.4	4.18	266	0.119	1.00	0.48	1.02	2.8	0.45	2.9	3.5	4.7	<5	6	
STD PTC-1A Expected																		0.05
STD CCU-1C Expected																		0.34
STD CZN-3 Expected																		0.113

QUALITY CONTROL REPORT

VAN08008436.1

		WGHT	G6	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	gm/mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD SF-3A Expected		308 7705 9625 10628 54 3365 183 4247 7.91 46 0 0 50 45 10 0 102 2.59																			
STD OXH55 Expected		1.282																			
STD OXK69 Expected		3.583																			
BLK	Blank	<0.5 <0.5 <0.5 <5 <0.5 <0.5 <0.5 <5 <0.01 <5 <0.5 <0.5 <5 <0.5 <0.5 <0.5 <0.5 <10 <0.01																			
BLK	Blank	<0.5 <0.5 8.4 <5 <0.5 <0.5 <0.5 <5 <0.01 <5 <0.5 <0.5 <5 <0.5 <0.5 <0.5 <0.5 <10 <0.01																			
BLK	Blank																				
BLK	Blank	<0.5 <0.5 <0.5 <5 <0.5 <0.5 <0.5 <5 <0.01 <5 <0.5 <0.5 <5 <0.5 <0.5 <0.5 <0.5 <10 <0.01																			
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	1.0	18.6	3.3	50	<0.5	5.7	4.6	621	2.12	<5	2.3	3.3	56	<0.5	<0.5	<0.5	43	0.57
G1	Prep Blank	<0.01	<0.01	0.8	15.8	3.1	54	<0.5	5.3	4.0	621	2.08	<5	2.3	4.1	49	<0.5	<0.5	<0.5	44	0.56

QUALITY CONTROL REPORT

VAN08008436.1

		7AX P %	7AX La ppm	7AX Cr ppm	7AX Mg %	7AX Ba ppm	7AX Ti %	7AX Al %	7AX Na %	7AX K %	7AX W ppm	7AX Hg ppm	7AX Sc ppm	7AX Ti ppm	7AX S %	7AX Ga ppm	7AX Se ppm	7AR.1 Pb %
		0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2	0.01
STD SF-3A Expected		0.054	10	167	4.27	260	0.117	1	0.47	0.99	0	0.6	0	0	4.2	0	10	
STD OXH55 Expected																		
STD OXK69 Expected																		
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2	
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2	
BLK	Blank																	<0.01
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
Prep Wash																		
G1	Prep Blank	0.086	12.5	9.8	0.63	239	0.157	1.05	0.09	0.54	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2	
G1	Prep Blank	0.080	9.1	9.7	0.65	230	0.163	1.05	0.08	0.56	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2	



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Suite 1409 - 409 Granville Street
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Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: September 14, 2009
Report Date: October 08, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004227.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 4

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	4	Crush, split and pulverize 250 g rock to 200 mesh			VAN
G6	4	Ag Au by fire assay	30	Completed	VAN
7AR	4	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 08, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004227.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001
04254	Rock	1.91	1.10	337	<0.001	0.017	0.10	<0.01	>300	<0.001	<0.001	<0.01	37.01	0.59	<0.001	<0.001	0.122	<0.01	0.03	0.005
04255	Rock	2.47	0.95	114	<0.001	0.007	0.03	<0.01	79	<0.001	<0.001	<0.01	32.12	0.49	<0.001	<0.001	0.030	<0.01	0.02	0.002
04256	Rock	1.19	0.52	29	<0.001	0.003	0.02	<0.01	45	<0.001	<0.001	<0.01	31.97	0.33	<0.001	<0.001	0.015	<0.01	0.16	0.004
04257	Rock	2.15	0.43	28	<0.001	0.004	0.03	<0.01	19	<0.001	<0.001	<0.01	40.59	0.70	<0.001	<0.001	0.003	<0.01	0.09	0.003



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Project: 224
Report Date: October 08, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004227.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
04254	Rock	0.02	0.07	<0.01	0.05	<0.001	<0.001	40.61
04255	Rock	0.02	0.06	<0.01	0.04	<0.001	<0.001	36.16
04256	Rock	0.08	0.05	<0.01	0.04	<0.001	<0.001	35.93
04257	Rock	0.01	0.05	<0.01	0.04	<0.001	<0.001	44.53



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Project:

224

Report Date:

October 08, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004227.1

Method Analyte Unit MDL	WGHT Wgt kg	G6 Au gm/mt	G6 Ag gm/mt	7AR Mo %	7AR Cu %	7AR Pb %	7AR Zn %	7AR Ag gm/mt	7AR Ni %	7AR Co %	7AR Mn %	7AR Fe %	7AR As %	7AR Sr %	7AR Cd %	7AR Sb %	7AR Bi %	7AR Ca %	7AR P %	7AR Cr %
Pulp Duplicates																				
REP G1	QC			<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	2.00	<0.01	0.007	<0.001	<0.001	<0.01	0.58	0.078	<0.001
Reference Materials																				
STD AGPROOF	Standard		<0.01	99																
STD OXE56	Standard		0.58	<5																
STD OXE56	Standard		0.61	14																
STD R4A	Standard			0.061	0.501	1.53	3.26	86	0.344	0.039	0.06	23.41	0.03	0.004	0.018	0.013	<0.01	0.96	0.042	0.012
STD R4A	Standard			0.062	0.503	1.54	3.28	87	0.351	0.040	0.06	23.53	0.02	0.004	0.018	0.013	<0.01	0.97	0.043	0.012
STD R4A Expected				0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD AGPROOF Expected			0	100																
STD OXE56 Expected			0.611																	
BLK	Blank			<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																
BLK	Blank		<0.01	<5																
BLK	Blank		<0.01	<5																
Prep Wash																				
G1	Prep Blank	<0.01	<0.01	<5																
G1	Prep Blank			<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	2.03	<0.01	0.007	<0.001	<0.001	<0.01	0.59	0.077	<0.001



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Project:

224

Report Date:

October 08, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004227.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
REP G1	QC	0.54	1.10	0.14	0.58	<0.001	<0.001	<0.05
Reference Materials								
STD AGPROOF	Standard							
STD OXE56	Standard							
STD OXE56	Standard							
STD R4A	Standard	0.86	1.28	0.06	0.51	<0.001	0.001	16.04
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	0.001	16.16
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD AGPROOF Expected								
STD OXE56 Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank							
G1	Prep Blank	0.55	1.12	0.14	0.59	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: September 21, 2009

Report Date: October 13, 2009

Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN09004360.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 44

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC: Erin O'Brien
Ellie Knight

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	42	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	44	Ag Au by fire assay	30	Completed	VAN
7AR	44	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

224

Report Date:

October 13, 2009

Page:

2 of 3

Part 1

CERTIFICATE OF ANALYSIS

VAN09004360.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66001	Drill Core	0.92	0.03	<5	<0.001	<0.001	<0.01	0.01	<2	<0.001	<0.001	0.06	2.00	<0.01	0.006	<0.001	<0.001	<0.01	0.51	0.077	<0.001
66002	Drill Core	1.87	<0.01	<5	<0.001	0.007	<0.01	<0.01	<2	0.002	0.002	0.09	3.51	<0.01	0.009	<0.001	0.001	<0.01	3.46	0.066	0.001
66003	Drill Core	1.57	<0.01	<5	<0.001	0.010	<0.01	<0.01	<2	0.002	0.003	0.13	4.86	<0.01	0.007	<0.001	<0.001	<0.01	5.12	0.092	<0.001
66004	Drill Core	0.40	<0.01	<5	<0.001	0.006	<0.01	<0.01	<2	0.002	0.002	0.16	4.48	<0.01	0.014	<0.001	<0.001	<0.01	9.27	0.065	<0.001
66005	Drill Core	2.49	<0.01	<5	<0.001	0.015	<0.01	<0.01	<2	0.004	0.003	0.11	6.52	<0.01	0.006	<0.001	<0.001	<0.01	3.79	0.084	<0.001
66006	Drill Core	2.50	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	0.003	0.17	4.30	<0.01	0.008	<0.001	0.001	<0.01	8.08	0.061	<0.001
66007	Drill Core	2.48	<0.01	<5	<0.001	<0.001	0.01	<0.01	<2	<0.001	<0.001	0.11	1.90	<0.01	0.009	<0.001	<0.001	<0.01	8.46	0.040	<0.001
66008	Drill Core	2.56	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.32	<0.01	0.011	<0.001	<0.001	<0.01	13.76	0.024	<0.001
66009	Drill Core	2.44	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.82	<0.01	0.012	<0.001	<0.001	<0.01	16.11	0.018	<0.001
66010	Drill Core	1.63	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.71	<0.01	0.014	<0.001	<0.001	<0.01	15.64	0.009	<0.001
66011	Drill Core	2.33	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.61	<0.01	0.013	<0.001	0.001	<0.01	16.48	0.009	<0.001
66012	Drill Core	2.50	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.60	<0.01	0.011	<0.001	<0.001	<0.01	14.53	0.009	<0.001
66013	Drill Core	2.32	0.02	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.00	<0.01	0.012	<0.001	0.002	<0.01	14.22	0.015	<0.001
66014	Drill Core	2.57	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.14	1.14	0.01	0.012	<0.001	<0.001	<0.01	14.50	0.005	<0.001
66015	Drill Core	2.38	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.48	<0.01	0.011	<0.001	<0.001	<0.01	12.88	0.003	<0.001
66016	Drill Core	2.38	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.76	<0.01	0.009	<0.001	0.002	<0.01	14.38	0.017	<0.001
66017	Drill Core	2.30	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.50	<0.01	0.008	<0.001	<0.001	<0.01	12.80	0.006	<0.001
66018	Drill Core	1.71	<0.01	7	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.13	0.95	<0.01	0.012	<0.001	<0.001	<0.01	15.70	0.007	<0.001
66019	Drill Core	1.24	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.27	1.99	0.02	0.011	<0.001	<0.001	<0.01	15.99	0.005	<0.001
66020	Drill Core	1.00	0.08	<5	<0.001	0.001	<0.01	<0.01	5	<0.001	<0.001	0.51	20.00	0.28	0.004	<0.001	0.002	<0.01	7.03	0.004	<0.001
66021	Drill Core	2.31	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.15	0.88	<0.01	0.010	<0.001	<0.001	<0.01	17.75	0.002	<0.001
66022	Drill Core	1.81	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.50	1.27	<0.01	0.009	<0.001	0.001	<0.01	16.28	0.006	<0.001
66023	Drill Core	2.51	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.52	<0.01	0.008	<0.001	<0.001	<0.01	16.94	0.003	<0.001
66024	Drill Core	2.36	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.25	2.82	0.03	0.007	<0.001	<0.001	<0.01	14.29	0.008	<0.001
66025	Drill Core	0.57	0.08	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.90	14.58	0.20	0.004	<0.001	0.002	<0.01	9.58	0.012	<0.001
66026	Drill Core	1.97	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.13	1.34	<0.01	0.007	<0.001	0.001	<0.01	13.74	0.025	<0.001
66027	Drill Core	0.83	0.01	10	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.12	3.33	0.05	0.007	<0.001	<0.001	<0.01	16.62	0.005	<0.001
66028	Drill Core	0.73	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.18	<0.01	0.008	<0.001	<0.001	<0.01	19.45	0.002	<0.001
66029	Drill Core	0.83	0.02	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.14	4.97	0.07	0.008	<0.001	<0.001	<0.01	14.67	0.003	<0.001
66030	Rock Pulp	0.11	1.10	13	0.001	0.496	0.03	1.45	15	0.002	0.001	0.04	9.61	<0.01	<0.001	0.005	<0.001	<0.01	0.30	0.010	0.004



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224

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Page:

2 of 3

Part 2

CERTIFICATE OF ANALYSIS

VAN09004360.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66001	Drill Core	0.51	0.92	0.09	0.49	<0.001	<0.001	<0.05
66002	Drill Core	1.75	0.31	0.03	0.28	<0.001	<0.001	1.12
66003	Drill Core	2.75	0.32	<0.01	0.31	<0.001	<0.001	0.24
66004	Drill Core	4.37	0.24	<0.01	0.23	<0.001	<0.001	0.24
66005	Drill Core	4.14	0.40	0.01	0.34	<0.001	<0.001	0.32
66006	Drill Core	4.83	0.35	<0.01	0.28	<0.001	<0.001	0.38
66007	Drill Core	4.82	0.26	<0.01	0.20	<0.001	<0.001	0.21
66008	Drill Core	7.81	0.19	<0.01	0.15	<0.001	<0.001	0.13
66009	Drill Core	9.12	0.09	<0.01	0.08	<0.001	<0.001	0.12
66010	Drill Core	8.94	0.05	<0.01	0.05	<0.001	<0.001	0.19
66011	Drill Core	9.28	0.06	<0.01	0.05	<0.001	<0.001	0.08
66012	Drill Core	8.44	0.07	<0.01	0.06	<0.001	<0.001	0.13
66013	Drill Core	8.21	0.11	<0.01	0.10	<0.001	<0.001	0.59
66014	Drill Core	8.34	0.05	<0.01	0.04	<0.001	<0.001	0.76
66015	Drill Core	7.46	0.01	<0.01	0.01	<0.001	<0.001	0.11
66016	Drill Core	8.17	0.11	<0.01	0.09	<0.001	<0.001	0.31
66017	Drill Core	7.39	0.04	<0.01	0.04	<0.001	<0.001	0.11
66018	Drill Core	8.87	0.05	<0.01	0.04	<0.001	<0.001	0.40
66019	Drill Core	8.88	0.04	<0.01	0.04	<0.001	<0.001	1.48
66020	Drill Core	3.61	0.06	<0.01	0.05	<0.001	<0.001	21.60
66021	Drill Core	9.98	0.01	<0.01	0.01	<0.001	<0.001	0.35
66022	Drill Core	9.34	0.03	<0.01	0.03	<0.001	<0.001	0.37
66023	Drill Core	9.74	0.03	<0.01	0.02	<0.001	<0.001	0.05
66024	Drill Core	8.07	0.06	<0.01	0.05	<0.001	<0.001	2.74
66025	Drill Core	5.20	0.07	<0.01	0.06	<0.001	<0.001	15.41
66026	Drill Core	8.11	0.18	<0.01	0.14	<0.001	<0.001	0.85
66027	Drill Core	9.23	0.01	<0.01	0.01	<0.001	<0.001	3.50
66028	Drill Core	10.87	0.02	<0.01	0.02	<0.001	<0.001	0.72
66029	Drill Core	8.30	0.03	<0.01	0.03	<0.001	<0.001	5.56
66030	Rock Pulp	1.04	1.02	<0.01	0.12	<0.001	<0.001	9.79



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Project: 224
Report Date: October 13, 2009

Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN09004360.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66031	Drill Core	0.83	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.58	<0.01	0.012	<0.001	<0.001	<0.01	13.39	0.033	<0.001
66032	Drill Core	2.48	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.89	<0.01	0.011	<0.001	<0.001	<0.01	11.80	0.035	<0.001
66033	Drill Core	1.66	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	0.002	0.05	1.69	<0.01	0.010	<0.001	<0.001	<0.01	8.07	0.042	<0.001
66034	Drill Core	2.34	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.88	<0.01	0.009	<0.001	<0.001	<0.01	12.20	0.018	<0.001
66035	Drill Core	2.45	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.001	<0.001	0.10	2.35	<0.01	0.008	<0.001	<0.001	<0.01	14.37	0.016	<0.001
66036	Drill Core	2.71	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.07	1.83	<0.01	0.010	<0.001	<0.001	<0.01	13.66	0.015	<0.001
66037	Drill Core	0.56	<0.01	<5	<0.001	0.012	<0.01	<0.01	<2	0.001	<0.001	0.18	3.66	<0.01	0.007	<0.001	0.003	<0.01	14.80	0.011	<0.001
66038	Drill Core	1.19	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.93	<0.01	0.007	<0.001	0.002	<0.01	13.91	0.012	<0.001
66039	Drill Core	1.82	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.95	<0.01	0.003	<0.001	<0.001	<0.01	2.73	0.012	<0.001
66040	Rock Pulp	0.11	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.80	<0.01	0.004	<0.001	<0.001	<0.01	0.79	0.067	0.003
66041	Drill Core	2.23	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.79	<0.01	0.002	<0.001	<0.001	<0.01	1.88	0.006	<0.001
66042	Drill Core	1.46	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	0.001	<0.01	0.43	<0.01	<0.001	<0.001	<0.001	<0.01	0.54	0.020	<0.001
66043	Drill Core	1.68	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.34	<0.01	<0.001	<0.001	<0.001	<0.01	0.24	0.017	0.001
66044	Drill Core	1.01	0.29	5	<0.001	0.010	<0.01	<0.01	11	0.002	0.003	0.13	4.81	0.02	<0.001	<0.001	0.003	<0.01	0.27	0.008	<0.001



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Page: 3 of 3 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004360.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66031	Drill Core	6.40	0.15	<0.01	0.14	<0.001	<0.001	0.27
66032	Drill Core	6.73	0.27	<0.01	0.23	<0.001	<0.001	0.16
66033	Drill Core	4.17	0.31	<0.01	0.28	<0.001	<0.001	0.23
66034	Drill Core	6.09	0.19	<0.01	0.14	<0.001	<0.001	0.48
66035	Drill Core	7.75	0.19	<0.01	0.13	<0.001	<0.001	<0.05
66036	Drill Core	7.72	0.18	<0.01	0.13	<0.001	<0.001	0.07
66037	Drill Core	7.32	0.14	<0.01	0.10	<0.001	<0.001	0.33
66038	Drill Core	7.26	0.15	<0.01	0.12	<0.001	<0.001	0.11
66039	Drill Core	1.15	0.31	<0.01	0.29	<0.001	<0.001	0.15
66040	Rock Pulp	0.94	2.13	0.08	0.19	<0.001	<0.001	<0.05
66041	Drill Core	0.78	0.25	<0.01	0.25	<0.001	<0.001	0.13
66042	Drill Core	0.15	0.40	<0.01	0.36	<0.001	<0.001	0.32
66043	Drill Core	0.09	0.31	<0.01	0.30	<0.001	<0.001	0.24
66044	Drill Core	0.16	0.21	<0.01	0.18	<0.001	<0.001	5.17



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Project:

224

Report Date:

October 13, 2009

Page:

1 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004360.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
66005	Drill Core	2.49	<0.01	<5	<0.001	0.015	<0.01	<0.01	<2	0.004	0.003	0.11	6.52	<0.01	0.006	<0.001	<0.001	<0.01	3.79	0.084	<0.001
REP 66005	QC				<0.001	0.015	<0.01	<0.01	<2	0.004	0.003	0.11	6.54	<0.01	0.006	<0.001	0.001	<0.01	3.78	0.084	<0.001
66016	Drill Core	2.38	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.76	<0.01	0.009	<0.001	0.002	<0.01	14.38	0.017	<0.001
REP 66016	QC		<0.01	<5																	
66042	Drill Core	1.46	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	0.001	<0.01	0.43	<0.01	<0.001	<0.001	<0.001	<0.01	0.54	0.020	<0.001
REP 66042	QC		<0.01	<5																	
Core Reject Duplicates																					
66009	Drill Core	2.44	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.82	<0.01	0.012	<0.001	<0.001	<0.01	16.11	0.018	<0.001
DUP 66009	QC		<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.82	<0.01	0.012	<0.001	<0.001	<0.01	16.15	0.017	<0.001
66044	Drill Core	1.01	0.29	5	<0.001	0.010	<0.01	<0.01	11	0.002	0.003	0.13	4.81	0.02	<0.001	<0.001	0.003	<0.01	0.27	0.008	<0.001
DUP 66044	QC		0.28	6	<0.001	0.009	<0.01	<0.01	10	0.003	0.003	0.13	4.69	0.02	<0.001	<0.001	0.003	<0.01	0.24	0.008	0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	97																	
STD CDN-ME-6	Standard		0.27	120																	
STD OXE56	Standard		0.60	<5																	
STD OXE56	Standard		0.62	<5																	
STD OXE56	Standard		0.61	<5																	
STD R4A	Standard				0.062	0.509	1.50	3.30	87	0.352	0.040	0.06	23.13	0.03	0.004	0.018	0.016	<0.01	0.98	0.043	0.013
STD R4A	Standard				0.063	0.513	1.51	3.32	88	0.357	0.040	0.06	23.23	0.03	0.004	0.018	0.017	<0.01	0.98	0.044	0.013
STD R4A	Standard				0.061	0.504	1.48	3.27	86	0.350	0.039	0.06	23.55	0.03	0.004	0.018	0.014	<0.01	0.97	0.044	0.012
STD R4A	Standard				0.061	0.506	1.49	3.29	87	0.359	0.039	0.06	23.68	0.03	0.004	0.018	0.014	<0.01	0.97	0.044	0.012
STD OXE56 Expected			0.611																		
STD AGPROOF Expected			0	100																	
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	



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Project:

224

Report Date:

October 13, 2009

Page:

1 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004360.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
66005	Drill Core	4.14	0.40	0.01	0.34	<0.001	<0.001	0.32
REP 66005	QC	4.14	0.41	0.01	0.34	<0.001	<0.001	0.32
66016	Drill Core	8.17	0.11	<0.01	0.09	<0.001	<0.001	0.31
REP 66016	QC							
66042	Drill Core	0.15	0.40	<0.01	0.36	<0.001	<0.001	0.32
REP 66042	QC							
Core Reject Duplicates								
66009	Drill Core	9.12	0.09	<0.01	0.08	<0.001	<0.001	0.12
DUP 66009	QC	9.09	0.10	<0.01	0.09	<0.001	<0.001	0.12
66044	Drill Core	0.16	0.21	<0.01	0.18	<0.001	<0.001	5.17
DUP 66044	QC	0.14	0.17	<0.01	0.15	<0.001	<0.001	5.08
Reference Materials								
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD OXE56	Standard							
STD OXE56	Standard							
STD OXE56	Standard							
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.18
STD R4A	Standard	0.87	1.30	0.07	0.51	<0.001	<0.001	16.23
STD R4A	Standard	0.86	1.29	0.06	0.51	<0.001	<0.001	16.01
STD R4A	Standard	0.86	1.29	0.06	0.51	<0.001	<0.001	16.10
STD OXE56 Expected								
STD AGPROOF Expected								
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
BLK	Blank							
BLK	Blank							
BLK	Blank							



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Project: 224

Report Date: October 13, 2009

Page: 2 of 2 **Part** 1

QUALITY CONTROL REPORT

VAN09004360.1

		WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	0.05	<5	<0.001	0.006	<0.01	<0.01	<2	0.002	0.002	0.02	2.81	<0.01	0.009	<0.001	0.001	<0.01	1.90	0.007	<0.001
G1	Prep Blank	<0.01	0.04	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.89	<0.01	0.006	<0.001	<0.001	<0.01	0.51	0.076	<0.001



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Project:

224

Report Date:

October 13, 2009

Page:

2 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004360.1

		7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
Prep Wash								
G1	Prep Blank	1.02	0.27	<0.01	0.33	<0.001	<0.001	1.63
G1	Prep Blank	0.50	0.91	0.09	0.48	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 01, 2009

Report Date: October 16, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004583.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	9	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	10	Ag Au by fire assay	30	Completed	VAN
7AR	10	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 16, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004583.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66147	Drill Core	2.73	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.38	<0.01	0.010	<0.001	<0.001	<0.01	16.51	0.010	<0.001
66148	Drill Core	1.81	0.02	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.20	2.85	0.04	0.011	<0.001	<0.001	<0.01	15.13	0.010	<0.001
66149	Drill Core	1.69	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.12	1.23	<0.01	0.010	<0.001	0.002	<0.01	15.59	0.009	<0.001
66150	Rock Pulp	0.15	1.82	5	0.001	0.487	0.03	1.42	14	0.002	0.001	0.03	9.40	<0.01	<0.001	0.005	0.002	<0.01	0.29	0.010	0.004
66151	Drill Core	2.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.34	0.02	0.008	<0.001	<0.001	<0.01	19.21	0.004	<0.001
66152	Drill Core	0.92	0.25	<5	<0.001	0.002	<0.01	<0.01	3	<0.001	<0.001	0.27	19.72	0.34	0.004	<0.001	0.004	<0.01	6.09	0.006	<0.001
66153	Drill Core	2.04	0.02	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.13	3.46	0.04	0.009	<0.001	<0.001	<0.01	14.34	0.007	<0.001
66154	Drill Core	1.71	0.05	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.23	4.82	0.08	0.008	<0.001	0.001	<0.01	12.68	0.013	<0.001
66155	Drill Core	0.73	0.36	7	<0.001	0.003	0.01	<0.01	4	<0.001	<0.001	0.25	21.15	0.39	0.005	<0.001	0.004	<0.01	7.39	0.007	<0.001
66156	Drill Core	1.81	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	1.80	<0.01	0.007	<0.001	<0.001	<0.01	9.55	0.050	<0.001



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Project: 224
Report Date: October 16, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004583.1

	Method	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Mg	Al	Na	K	W	Hg	S
	Unit	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05
66147	Drill Core	9.32	0.11	<0.01	0.06	<0.001	<0.001	0.34
66148	Drill Core	8.52	0.11	<0.01	0.07	<0.001	<0.001	2.19
66149	Drill Core	8.98	0.09	<0.01	0.05	<0.001	<0.001	0.79
66150	Rock Pulp	1.03	1.01	0.01	0.13	<0.001	<0.001	9.79
66151	Drill Core	11.49	0.06	<0.01	0.01	<0.001	<0.001	1.03
66152	Drill Core	3.31	0.04	<0.01	0.02	<0.001	<0.001	22.31
66153	Drill Core	8.38	0.07	<0.01	0.04	<0.001	<0.001	3.38
66154	Drill Core	7.27	0.09	<0.01	0.06	<0.001	<0.001	4.86
66155	Drill Core	4.11	0.04	<0.01	0.02	<0.001	<0.001	24.45
66156	Drill Core	6.60	0.90	<0.01	0.53	<0.001	<0.001	0.72



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Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004583.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
Pulp Duplicates																					
REP G1	QC	<0.001				<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.04	<0.01	0.006	<0.001	<0.001	<0.01	0.54	0.080	<0.001
Core Reject Duplicates																					
66156	Drill Core	1.81	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	1.80	<0.01	0.007	<0.001	<0.001	<0.01	9.55	0.050	<0.001
DUP 66156	QC	<0.01		<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.02	1.90	<0.01	0.007	<0.001	<0.001	<0.01	9.51	0.052	<0.001
Reference Materials																					
STD AGPROOF	Standard	<0.01		93																	
STD CDN-ME-6	Standard	0.27		94																	
STD R4A	Standard				0.062	0.502	1.48	3.25	85	0.347	0.040	0.06	23.10	0.02	0.004	0.018	0.015	<0.01	0.96	0.043	0.012
STD R4A	Standard				0.063	0.501	1.51	3.27	86	0.348	0.040	0.06	23.18	0.02	0.004	0.018	0.014	<0.01	0.96	0.043	0.013
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected		0.27		101																	
STD AGPROOF Expected		0		100																	
BLK	Blank	<0.001			<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
Prep Wash																					
G1	Prep Blank	<0.01	0.02	<5																	
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.95	<0.01	0.005	<0.001	<0.001	<0.01	0.47	0.076	<0.001
G1	Prep Blank	<0.001			<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.05	<0.01	0.006	<0.001	<0.001	<0.01	0.54	0.080	<0.001	



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Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004583.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
REP G1	QC	0.54	0.96	0.09	0.55	<0.001	<0.001	<0.05
Core Reject Duplicates								
66156	Drill Core	6.60	0.90	<0.01	0.53	<0.001	<0.001	0.72
DUP 66156	QC	6.58	0.90	<0.01	0.54	<0.001	<0.001	0.81
Reference Materials								
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.85	1.26	0.06	0.50	<0.001	0.001	15.99
STD R4A	Standard	0.85	1.27	0.07	0.51	<0.001	<0.001	16.13
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank							
G1	Prep Blank	0.49	0.84	0.07	0.48	<0.001	<0.001	<0.05
G1	Prep Blank	0.55	0.98	0.10	0.56	<0.001	<0.001	<0.05



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Vancouver BC V6C 1T2 Canada

Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 01, 2009
Report Date: October 22, 2009
Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN09004585.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 31

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	28	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	31	Ag Au by fire assay	30	Completed	VAN
7AR	31	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 22, 2009

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN09004585.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66095	Drill Core	1.93	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.002	<0.001	0.05	2.18	<0.01	0.005	<0.001	<0.001	<0.01	10.61	0.025	0.003
66096	Drill Core	2.58	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	0.002	0.06	2.13	<0.01	0.005	<0.001	<0.001	<0.01	10.65	0.026	0.003
66097	Drill Core	3.19	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.07	1.90	<0.01	0.006	<0.001	<0.001	<0.01	12.91	0.019	0.002
66098	Drill Core	0.83	<0.01	<5	<0.001	0.045	<0.01	<0.01	<2	0.004	0.003	0.16	4.48	<0.01	0.008	<0.001	<0.001	<0.01	6.43	0.093	0.001
66099	Drill Core	0.55	<0.01	<5	<0.001	0.018	<0.01	<0.01	<2	0.006	0.005	0.14	5.70	<0.01	0.004	<0.001	<0.001	<0.01	4.69	0.102	0.001
66100	Rock Pulp	0.15	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.80	<0.01	0.004	<0.001	<0.001	<0.01	0.79	0.067	0.003
66101	Drill Core	1.79	<0.01	<5	<0.001	0.035	<0.01	<0.01	<2	0.002	0.004	0.24	3.95	<0.01	0.006	<0.001	<0.001	<0.01	6.93	0.098	<0.001
66102	Drill Core	2.56	<0.01	<5	<0.001	0.012	<0.01	<0.01	<2	0.006	0.004	0.09	7.26	<0.01	0.007	<0.001	<0.001	<0.01	4.03	0.085	0.005
66103	Drill Core	2.36	<0.01	<5	<0.001	0.019	<0.01	<0.01	<2	0.007	0.004	0.08	6.74	<0.01	0.005	<0.001	<0.001	<0.01	3.84	0.089	0.006
66104	Drill Core	2.17	<0.01	<5	<0.001	0.017	<0.01	<0.01	<2	0.006	0.004	0.08	5.05	<0.01	0.004	<0.001	<0.001	<0.01	3.39	0.102	0.005
66105	Drill Core	1.77	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.11	2.22	<0.01	0.021	<0.001	<0.001	<0.01	12.07	0.012	<0.001
66106	Drill Core	1.82	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.15	4.25	<0.01	0.027	<0.001	<0.001	<0.01	17.18	0.014	<0.001
66107	Drill Core	1.73	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.002	<0.001	0.05	1.63	<0.01	0.014	<0.001	<0.001	<0.01	13.51	0.017	<0.001
66108	Drill Core	2.84	<0.01	<5	<0.001	0.010	<0.01	<0.01	<2	0.006	0.004	0.08	6.27	<0.01	0.008	<0.001	<0.001	<0.01	5.17	0.078	0.004
66109	Drill Core	3.16	<0.01	<5	<0.001	0.005	<0.01	0.01	<2	0.007	0.004	0.05	6.69	<0.01	0.006	<0.001	<0.001	<0.01	3.31	0.086	0.005
66110	Rock Pulp	0.15	2.11	7	0.002	0.490	0.03	1.42	14	0.003	0.001	0.04	9.43	<0.01	<0.001	0.005	<0.001	<0.01	0.29	0.010	0.004
66111	Drill Core	1.74	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.15	1.80	<0.01	0.012	<0.001	<0.001	<0.01	16.63	0.010	<0.001
66112	Drill Core	1.82	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.30	2.41	<0.01	0.012	<0.001	<0.001	<0.01	16.31	0.012	<0.001
66113	Drill Core	1.39	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.36	2.55	<0.01	0.010	<0.001	<0.001	<0.01	14.96	0.010	<0.001
66114	Drill Core	2.13	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.20	2.05	<0.01	0.011	<0.001	<0.001	<0.01	16.23	0.004	<0.001
66115	Drill Core	2.61	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.83	<0.01	0.009	<0.001	<0.001	<0.01	14.40	0.006	<0.001
66116	Drill Core	2.64	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.58	<0.01	0.008	<0.001	<0.001	<0.01	14.16	0.014	<0.001
66117	Drill Core	2.62	<0.01	<5	<0.001	<0.001	<0.01	0.02	<2	<0.001	<0.001	0.07	1.26	<0.01	0.011	<0.001	<0.001	<0.01	15.26	0.009	<0.001
66118	Drill Core	2.76	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.38	<0.01	0.006	<0.001	<0.001	<0.01	14.87	0.010	<0.001
66119	Drill Core	2.62	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.11	2.11	<0.01	0.009	<0.001	0.002	<0.01	15.57	0.004	<0.001
66120	Rock Pulp	0.15	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.66	<0.01	0.004	<0.001	<0.001	<0.01	0.78	0.065	0.002
66121	Drill Core	2.65	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.76	<0.01	0.008	<0.001	0.003	<0.01	14.94	0.005	<0.001
66122	Drill Core	2.11	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.08	2.03	<0.01	0.005	<0.001	<0.001	<0.01	12.67	0.028	<0.001
66123	Drill Core	1.93	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.15	2.36	<0.01	0.014	<0.001	<0.001	<0.01	11.11	0.104	<0.001
66124	Drill Core	1.88	<0.01	<5	<0.001	0.007	<0.01	<0.01	<2	<0.001	<0.001	0.13	2.48	<0.01	0.015	<0.001	<0.001	<0.01	8.97	0.065	<0.001



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Project:

224

Report Date:

October 22, 2009

Page:

2 of 3

Part 2

CERTIFICATE OF ANALYSIS

VAN09004585.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66095	Drill Core	7.68	1.44	<0.01	0.28	<0.001	<0.001	<0.05
66096	Drill Core	7.39	1.27	<0.01	0.25	<0.001	<0.001	0.22
66097	Drill Core	8.57	0.98	<0.01	0.20	<0.001	<0.001	0.06
66098	Drill Core	3.39	0.97	<0.01	0.34	<0.001	<0.001	0.38
66099	Drill Core	2.23	0.77	<0.01	0.43	<0.001	<0.001	0.49
66100	Rock Pulp	0.94	2.14	0.08	0.19	<0.001	<0.001	<0.05
66101	Drill Core	2.57	0.38	<0.01	0.40	<0.001	<0.001	0.38
66102	Drill Core	4.59	1.80	0.02	0.44	<0.001	<0.001	0.41
66103	Drill Core	4.49	2.31	0.03	0.37	<0.001	<0.001	0.31
66104	Drill Core	3.66	2.01	0.02	0.55	<0.001	<0.001	0.26
66105	Drill Core	6.31	0.20	<0.01	0.17	<0.001	<0.001	<0.05
66106	Drill Core	8.30	0.13	<0.01	0.08	<0.001	<0.001	0.70
66107	Drill Core	7.94	0.36	<0.01	0.33	<0.001	<0.001	0.05
66108	Drill Core	6.23	2.13	0.02	0.65	<0.001	<0.001	0.27
66109	Drill Core	5.95	2.26	0.02	0.77	<0.001	<0.001	0.34
66110	Rock Pulp	1.07	1.06	0.01	0.13	<0.001	<0.001	9.77
66111	Drill Core	9.03	0.11	<0.01	0.04	<0.001	<0.001	0.53
66112	Drill Core	8.64	0.10	<0.01	0.05	<0.001	<0.001	0.83
66113	Drill Core	7.55	0.12	<0.01	0.08	<0.001	<0.001	0.53
66114	Drill Core	8.56	0.08	<0.01	0.04	<0.001	<0.001	0.37
66115	Drill Core	7.69	0.16	<0.01	0.09	<0.001	<0.001	0.21
66116	Drill Core	7.61	0.15	<0.01	0.08	<0.001	<0.001	0.20
66117	Drill Core	8.55	0.12	<0.01	0.05	<0.001	<0.001	0.24
66118	Drill Core	8.23	0.12	<0.01	0.08	<0.001	<0.001	0.20
66119	Drill Core	8.28	0.10	<0.01	0.06	<0.001	<0.001	0.46
66120	Rock Pulp	0.93	2.09	0.08	0.18	<0.001	<0.001	<0.05
66121	Drill Core	8.07	0.14	<0.01	0.08	<0.001	<0.001	0.29
66122	Drill Core	6.86	0.17	<0.01	0.13	<0.001	<0.001	0.91
66123	Drill Core	5.55	0.23	<0.01	0.16	<0.001	<0.001	0.52
66124	Drill Core	4.29	0.24	<0.01	0.22	<0.001	<0.001	0.38



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Project: 224
Report Date: October 22, 2009

Page: 3 of 3 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004585.1

	Method	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
	Unit	kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
66125	Drill Core	2.28	<0.01	<5	<0.001	0.005	<0.01	<0.01	<2	0.002	0.001	0.11	2.83	<0.01	0.017	<0.001	<0.001	<0.01	8.02	0.067	<0.001



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Project: 224
Report Date: October 22, 2009

Page: 3 of 3 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004585.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66125	Drill Core	3.71	0.27	<0.01	0.26	<0.001	<0.001	0.64



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Project:

224

Report Date:

October 22, 2009

Page:

1 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004585.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
66100	Rock Pulp	0.15	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.80	<0.01	0.004	<0.001	<0.001	<0.01	0.79	0.067	0.003
REP 66100	QC				<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.85	<0.01	0.004	<0.001	<0.001	<0.01	0.79	0.068	0.002
66119	Drill Core	2.62	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.11	2.11	<0.01	0.009	<0.001	0.002	<0.01	15.57	0.004	<0.001
REP 66119	QC		<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.11	2.10	<0.01	0.009	<0.001	0.002	<0.01	15.47	0.001	<0.001
Core Reject Duplicates																					
66118	Drill Core	2.76	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.38	<0.01	0.006	<0.001	<0.001	<0.01	14.87	0.010	<0.001
DUP 66118	QC		<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.38	<0.01	0.006	<0.001	0.001	<0.01	14.71	0.010	<0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	96																	
STD AGPROOF	Standard		<0.01	98																	
STD CDN-ME-6	Standard		0.25	101																	
STD CDN-ME-6	Standard		0.26	103																	
STD CDN-ME-6	Standard		0.30	93																	
STD R4A	Standard				0.063	0.501	1.51	3.29	87	0.351	0.040	0.06	23.31	0.03	0.004	0.017	0.017	<0.01	0.96	0.043	0.013
STD R4A	Standard				0.063	0.501	1.52	3.28	87	0.353	0.040	0.06	23.27	0.03	0.004	0.017	0.016	<0.01	0.96	0.043	0.012
STD R4A	Standard				0.062	0.508	1.49	3.26	86	0.349	0.040	0.06	23.04	0.03	0.004	0.017	0.018	<0.01	0.96	0.041	0.012
STD R4A	Standard				0.062	0.507	1.48	3.27	86	0.346	0.040	0.06	22.96	0.03	0.004	0.017	0.018	<0.01	0.97	0.043	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
STD AGPROOF Expected			0	100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
Prep Wash																					



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Project:

224

Report Date:

October 22, 2009

Page:

1 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004585.1

Method		7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Mg	Al	Na	K	W	Hg	S
Unit		%	%	%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
66100	Rock Pulp	0.94	2.14	0.08	0.19	<0.001	<0.001	<0.05
REP 66100	QC	0.94	2.16	0.09	0.19	<0.001	<0.001	<0.05
66119	Drill Core	8.28	0.10	<0.01	0.06	<0.001	<0.001	0.46
REP 66119	QC	8.32	0.10	<0.01	0.06	<0.001	<0.001	0.47
Core Reject Duplicates								
66118	Drill Core	8.23	0.12	<0.01	0.08	<0.001	<0.001	0.20
DUP 66118	QC	8.31	0.14	<0.01	0.10	<0.001	<0.001	0.22
Reference Materials								
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.85	1.29	0.07	0.51	<0.001	<0.001	16.09
STD R4A	Standard	0.85	1.28	0.07	0.51	<0.001	<0.001	16.10
STD R4A	Standard	0.85	1.27	0.06	0.50	<0.001	<0.001	16.05
STD R4A	Standard	0.85	1.27	0.06	0.50	<0.001	<0.001	16.03
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								



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Client: Caracle Creek International Consulting Inc.

Suite 1409 - 409 Granville Street

Vancouver BC V6C 1T2 Canada

Project: 224

Report Date: October 22, 2009

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN09004585.1

		WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.85	<0.01	0.005	<0.001	<0.001	<0.01	0.43	0.080	<0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.90	<0.01	0.006	<0.001	<0.001	<0.01	0.51	0.077	<0.001



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Vancouver BC V6C 1T2 Canada

Project: 224

Report Date: October 22, 2009

Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

VAN09004585.1

		7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
G1	Prep Blank	0.48	0.80	0.06	0.48	<0.001	<0.001	<0.05
G1	Prep Blank	0.51	0.94	0.10	0.53	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 01, 2009

Report Date: October 16, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004586.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 18

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	17	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	18	Ag Au by fire assay	30	Completed	VAN
7AR	18	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 16, 2009

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN09004586.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66182	Drill Core	1.64	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.001	<0.001	0.03	1.87	<0.01	0.006	<0.001	<0.001	<0.01	9.37	0.049	<0.001
66183	Drill Core	1.88	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	1.85	<0.01	0.008	<0.001	<0.001	<0.01	10.12	0.050	<0.001
66184	Drill Core	1.86	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.09	2.41	<0.01	0.011	<0.001	<0.001	<0.01	11.00	0.036	<0.001
66185	Drill Core	2.48	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.07	2.03	<0.01	0.009	<0.001	<0.001	<0.01	9.61	0.046	<0.001
66186	Drill Core	1.53	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	2.00	<0.01	0.015	<0.001	<0.001	<0.01	13.23	0.014	<0.001
66187	Drill Core	2.13	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.53	<0.01	0.010	<0.001	<0.001	<0.01	14.51	0.010	<0.001
66188	Drill Core	1.99	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.91	<0.01	0.007	<0.001	<0.001	<0.01	14.67	0.009	<0.001
66189	Drill Core	1.56	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.15	1.52	<0.01	0.006	<0.001	<0.001	<0.01	12.35	0.021	<0.001
66190	Rock Pulp	0.15	2.19	13	0.001	0.490	0.03	1.42	15	0.002	0.001	0.03	9.31	<0.01	<0.001	0.005	<0.001	<0.01	0.29	0.011	0.004
66191	Drill Core	1.85	0.03	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.40	3.35	<0.01	0.005	<0.001	<0.001	<0.01	12.16	0.021	<0.001
66192	Drill Core	2.27	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.23	1.92	<0.01	0.005	<0.001	<0.001	<0.01	12.41	0.020	<0.001
66193	Drill Core	1.26	0.59	9	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.53	16.67	0.08	0.003	<0.001	<0.001	<0.01	8.68	0.014	<0.001
66194	Drill Core	2.41	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.15	2.02	<0.01	0.006	<0.001	<0.001	<0.01	12.74	0.019	<0.001
66195	Drill Core	2.43	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.29	3.64	<0.01	0.006	<0.001	<0.001	<0.01	13.92	0.015	<0.001
66196	Drill Core	2.70	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.68	6.19	<0.01	0.009	<0.001	<0.001	<0.01	15.25	0.010	<0.001
66197	Drill Core	1.44	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.38	1.22	<0.01	0.005	<0.001	<0.001	<0.01	17.92	0.001	<0.001
66198	Drill Core	1.89	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.42	1.30	<0.01	0.006	<0.001	<0.001	<0.01	16.81	0.003	<0.001
66199	Drill Core	1.99	0.39	6	<0.001	0.014	<0.01	0.01	5	<0.001	<0.001	2.58	11.25	0.86	0.003	<0.001	0.006	<0.01	9.51	0.003	<0.001



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Vancouver BC V6C 1T2 Canada

Project: 224
Report Date: October 16, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004586.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66182	Drill Core	5.88	0.37	<0.01	0.31	<0.001	<0.001	1.01
66183	Drill Core	6.61	0.89	<0.01	0.38	<0.001	<0.001	0.88
66184	Drill Core	5.73	0.24	<0.01	0.23	<0.001	<0.001	0.22
66185	Drill Core	4.99	0.27	<0.01	0.24	<0.001	<0.001	0.15
66186	Drill Core	7.24	0.17	<0.01	0.14	<0.001	<0.001	<0.05
66187	Drill Core	8.18	0.15	<0.01	0.11	<0.001	<0.001	<0.05
66188	Drill Core	7.89	0.13	<0.01	0.10	<0.001	<0.001	0.06
66189	Drill Core	6.82	0.18	<0.01	0.15	<0.001	<0.001	0.49
66190	Rock Pulp	1.00	0.98	0.01	0.12	<0.001	<0.001	9.65
66191	Drill Core	6.59	0.15	<0.01	0.12	<0.001	<0.001	2.20
66192	Drill Core	6.82	0.20	<0.01	0.16	<0.001	<0.001	0.67
66193	Drill Core	4.67	0.13	<0.01	0.11	<0.001	<0.001	17.40
66194	Drill Core	6.98	0.18	<0.01	0.14	<0.001	<0.001	0.64
66195	Drill Core	6.79	0.12	<0.01	0.09	<0.001	<0.001	0.69
66196	Drill Core	7.22	0.19	0.01	0.11	<0.001	<0.001	1.91
66197	Drill Core	10.09	0.10	<0.01	0.06	<0.001	<0.001	0.29
66198	Drill Core	9.83	0.10	<0.01	0.06	<0.001	<0.001	0.26
66199	Drill Core	6.60	0.08	<0.01	0.05	0.026	<0.001	6.02



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Vancouver BC V6C 1T2 Canada

Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004586.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
66187	Drill Core	2.13	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.53	<0.01	0.010	<0.001	<0.001	<0.01	14.51	0.010	<0.001
REP 66187	QC		<0.01	<5																	
66195	Drill Core	2.43	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.29	3.64	<0.01	0.006	<0.001	<0.001	<0.01	13.92	0.015	<0.001
REP 66195	QC				<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.29	3.66	<0.01	0.006	<0.001	<0.001	<0.01	13.92	0.015	<0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	93																	
STD CDN-ME-6	Standard		0.27	94																	
STD R4A	Standard				0.061	0.499	1.46	3.21	85	0.334	0.039	0.06	22.83	0.02	0.004	0.018	0.014	<0.01	0.94	0.042	0.012
STD R4A	Standard				0.063	0.508	1.52	3.29	86	0.353	0.040	0.06	23.33	0.02	0.004	0.018	0.015	<0.01	0.97	0.042	0.013
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
STD AGPROOF Expected			0	100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.90	<0.01	0.006	<0.001	<0.001	<0.01	0.55	0.084	0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.00	<0.01	0.007	<0.001	<0.001	<0.01	0.52	0.081	<0.001



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Suite 1409 - 409 Granville Street

Vancouver BC V6C 1T2 Canada

Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004586.1

Method		7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Mg	Al	Na	K	W	Hg	S
Unit		%	%	%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
66187	Drill Core	8.18	0.15	<0.01	0.11	<0.001	<0.001	<0.05
REP 66187	QC							
66195	Drill Core	6.79	0.12	<0.01	0.09	<0.001	<0.001	0.69
REP 66195	QC	7.00	0.13	<0.01	0.09	<0.001	<0.001	0.69
Reference Materials								
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.84	1.25	0.06	0.50	<0.001	<0.001	15.96
STD R4A	Standard	0.86	1.28	0.07	0.51	<0.001	<0.001	16.25
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.54	0.95	0.09	0.54	<0.001	<0.001	<0.05
G1	Prep Blank	0.51	0.93	0.10	0.52	<0.001	<0.001	<0.05



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Suite 1409 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 01, 2009
Report Date: November 04, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004588.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 21

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	19	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	21	Ag Au by fire assay	30	Completed	VAN
7AR	21	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
G812	3	Specific Gravity on Pulp		Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Suite 1409 - 409 Granville Street

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Project:

224

Report Date:

November 04, 2009

Page:

2 of 2

Part 1

CERTIFICATE OF ANALYSIS

VAN09004588.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66126	Drill Core	1.76	0.07	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.11	5.93	0.10	0.008	<0.001	<0.001	<0.01	13.99	0.005	<0.001
66127	Drill Core	0.92	0.49	<5	<0.001	0.002	0.01	<0.01	4	<0.001	<0.001	0.06	32.79	0.62	0.001	<0.001	0.003	<0.01	1.84	0.005	<0.001
66128	Drill Core	2.70	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.24	<0.01	0.008	<0.001	<0.001	<0.01	13.78	0.006	<0.001
66129	Drill Core	1.61	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.21	1.41	0.01	0.008	<0.001	<0.001	<0.01	16.05	0.003	<0.001
66130	Rock Pulp	0.15	2.14	6	0.001	0.495	0.03	1.44	15	0.003	0.001	0.03	9.70	<0.01	<0.001	0.005	<0.001	<0.01	0.29	0.010	0.004
66131	Drill Core	2.78	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.14	1.54	0.01	0.009	<0.001	<0.001	<0.01	15.33	0.007	<0.001
66132	Drill Core	2.07	0.06	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.16	5.42	0.08	0.007	<0.001	<0.001	<0.01	12.14	0.002	<0.001
66133	Drill Core	1.10	0.27	<5	<0.001	0.002	<0.01	<0.01	4	<0.001	<0.001	0.13	22.44	0.43	0.001	<0.001	0.003	<0.01	2.16	0.004	<0.001
66134	Drill Core	3.20	0.18	<5	<0.001	0.002	<0.01	<0.01	3	<0.001	<0.001	0.24	21.09	0.40	0.005	<0.001	0.002	<0.01	6.14	0.005	<0.001
66135	Drill Core	3.75	0.49	<5	<0.001	0.004	0.01	<0.01	6	<0.001	<0.001	0.18	34.60	0.69	0.002	<0.001	0.002	<0.01	2.10	0.004	<0.001
66136	Drill Core	1.99	0.08	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.32	8.50	0.13	0.008	<0.001	0.001	<0.01	14.00	0.002	<0.001
66137	Drill Core	2.82	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.77	<0.01	0.008	<0.001	<0.001	<0.01	15.81	0.005	<0.001
66138	Drill Core	1.54	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.90	<0.01	0.008	<0.001	<0.001	<0.01	16.40	0.010	<0.001
66139	Drill Core	1.97	0.28	7	<0.001	0.003	<0.01	<0.01	2	<0.001	<0.001	0.07	5.22	0.51	0.006	<0.001	0.003	<0.01	12.11	0.019	<0.001
66140	Rock Pulp	0.15	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.78	<0.01	0.004	<0.001	<0.001	<0.01	0.75	0.066	0.002
66141	Drill Core	1.97	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	1.17	<0.01	0.015	<0.001	<0.001	<0.01	13.40	0.026	<0.001
66142	Drill Core	1.79	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.03	1.81	<0.01	0.029	<0.001	<0.001	<0.01	9.10	0.048	<0.001
66143	Drill Core	1.80	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	2.14	<0.01	0.004	<0.001	<0.001	<0.01	12.12	0.005	<0.001
66144	Drill Core	2.79	0.05	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.32	4.33	0.01	0.004	<0.001	<0.001	<0.01	13.63	0.004	<0.001
66145	Drill Core	1.80	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.15	1.38	<0.01	0.007	<0.001	<0.001	<0.01	16.94	0.005	<0.001
66146	Drill Core	1.81	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.80	3.65	<0.01	0.008	<0.001	<0.001	<0.01	15.79	0.010	<0.001



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Project:

224

Report Date:

November 04, 2009

Page:

2 of 2

Part 2

CERTIFICATE OF ANALYSIS

VAN09004588.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	SG
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66126	Drill Core	8.16	0.05	<0.01	0.03	<0.001	<0.001	6.64
66127	Drill Core	0.98	0.02	<0.01	0.01	<0.001	<0.001	36.30
66128	Drill Core	7.90	0.05	<0.01	0.04	<0.001	<0.001	0.95
66129	Drill Core	9.24	0.02	<0.01	0.01	<0.001	<0.001	0.93
66130	Rock Pulp	1.02	1.03	0.01	0.13	<0.001	<0.001	9.85
66131	Drill Core	8.82	0.05	<0.01	0.04	<0.001	<0.001	1.29
66132	Drill Core	7.08	0.01	<0.01	<0.01	<0.001	<0.001	5.90
66133	Drill Core	1.09	<0.01	<0.01	<0.01	<0.001	<0.001	24.57
66134	Drill Core	3.45	0.02	<0.01	0.02	<0.001	<0.001	23.27
66135	Drill Core	1.50	0.03	<0.01	0.02	<0.001	<0.001	36.67
66136	Drill Core	8.32	0.03	<0.01	0.02	<0.001	<0.001	8.86
66137	Drill Core	9.09	0.04	<0.01	0.03	<0.001	<0.001	0.31
66138	Drill Core	9.44	0.06	<0.01	0.05	<0.001	<0.001	0.28
66139	Drill Core	7.00	0.09	<0.01	0.08	<0.001	<0.001	5.33
66140	Rock Pulp	0.94	2.11	0.08	0.18	<0.001	<0.001	<0.05
66141	Drill Core	7.90	0.30	<0.01	0.22	<0.001	<0.001	0.62
66142	Drill Core	5.95	0.48	<0.01	0.37	<0.001	<0.001	0.89
66143	Drill Core	6.59	0.06	<0.01	0.05	<0.001	<0.001	0.41
66144	Drill Core	6.92	0.06	<0.01	0.05	<0.001	<0.001	1.82
66145	Drill Core	9.50	0.04	<0.01	0.03	<0.001	<0.001	0.56
66146	Drill Core	9.21	0.07	<0.01	0.04	<0.001	<0.001	1.47



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Project:

224

Report Date:

November 04, 2009

Page:

1 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004588.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
66126	Drill Core	1.76	0.07	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.11	5.93	0.10	0.008	<0.001	<0.001	<0.01	13.99	0.005	<0.001
REP 66126	QC		0.07	<5																	
66127	Drill Core	0.92	0.49	<5	<0.001	0.002	0.01	<0.01	4	<0.001	<0.001	0.06	32.79	0.62	0.001	<0.001	0.003	<0.01	1.84	0.005	<0.001
REP 66127	QC				<0.001	0.002	0.01	<0.01	4	<0.001	<0.001	0.06	33.17	0.63	0.001	<0.001	0.003	<0.01	1.85	0.004	<0.001
Core Reject Duplicates																					
66143	Drill Core	1.80	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	2.14	<0.01	0.004	<0.001	<0.001	<0.01	12.12	0.005	<0.001
DUP 66143	QC		<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	2.12	<0.01	0.004	<0.001	<0.001	<0.01	12.15	0.005	<0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	93																	
STD AGPROOF	Standard		<0.01	98																	
STD AGPROOF	Standard		<0.01	94																	
STD CDN-ME-6	Standard		0.27	94																	
STD CDN-ME-6	Standard		0.30	93																	
STD CDN-ME-6	Standard		0.30	99																	
STD R4A	Standard				0.062	0.509	1.54	3.30	86	0.354	0.040	0.06	23.67	0.03	0.004	0.018	0.013	<0.01	0.96	0.043	0.012
STD R4A	Standard				0.061	0.505	1.46	3.26	86	0.348	0.040	0.06	23.44	0.02	0.004	0.018	0.013	<0.01	0.95	0.043	0.012
STD R4A	Standard				0.062	0.501	1.48	3.28	86	0.350	0.040	0.06	23.16	0.02	0.004	0.018	0.013	<0.01	0.96	0.044	0.013
STD R4A	Standard				0.062	0.496	1.48	3.25	85	0.341	0.040	0.06	22.82	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.013
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
STD AGPROOF Expected			0	100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	



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Project:

224

Report Date:

November 04, 2009

Page:

1 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004588.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	S	SG
		%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
Pulp Duplicates									
66126	Drill Core	8.16	0.05	<0.01	0.03	<0.001	<0.001	6.64	2.94
REP 66126	QC								
66127	Drill Core	0.98	0.02	<0.01	0.01	<0.001	<0.001	36.30	3.83
REP 66127	QC	1.00	0.02	<0.01	0.01	<0.001	<0.001	36.37	
Core Reject Duplicates									
66143	Drill Core	6.59	0.06	<0.01	0.05	<0.001	<0.001	0.41	N.A.
DUP 66143	QC	6.58	0.06	<0.01	0.05	<0.001	<0.001	0.42	N.A.
Reference Materials									
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD R4A	Standard	0.85	1.28	0.06	0.51	<0.001	<0.001	16.07	
STD R4A	Standard	0.85	1.26	0.06	0.50	<0.001	<0.001	15.91	
STD R4A	Standard	0.85	1.27	0.07	0.50	<0.001	<0.001	16.11	
STD R4A	Standard	0.84	1.27	0.07	0.50	<0.001	0.001	15.94	
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7	
STD CDN-ME-6 Expected									
STD AGPROOF Expected									
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								



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Report Date: November 04, 2009

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN09004588.1

		WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
BLK	Blank	<0.01 <5																			
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.10	<0.01	0.008	<0.001	<0.001	<0.01	0.60	0.079	<0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.07	<0.01	0.007	<0.001	<0.001	<0.01	0.60	0.081	<0.001



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Project: 224

Report Date: November 04, 2009

Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

VAN09004588.1

		7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	S	SG
		%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
BLK	Blank								
Prep Wash									
G1	Prep Blank	0.54	1.15	0.16	0.59	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank	0.53	1.12	0.15	0.57	<0.001	<0.001	<0.05	N.A.



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 01, 2009

Report Date: November 04, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004589.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 23

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	23	Crush, split and pulverize 250 g rock to 200 mesh			VAN
G6	23	Ag Au by fire assay	30	Completed	VAN
7AR	23	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
7AR.1	3	1:1:1 Aqua Regia Digestion ICP-ES Finish	0.1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: November 04, 2009

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN09004589.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
66351	Rock	2.35	0.22	33	<0.001	<0.001	0.10	<0.01	9	<0.001	<0.001	<0.01	35.60	0.38	<0.001	<0.001	0.047	<0.01	0.02	0.006	<0.001
66352	Rock	2.03	0.23	7	<0.001	<0.001	0.01	<0.01	2	0.001	<0.001	0.03	35.73	0.26	<0.001	<0.001	<0.001	<0.01	0.44	0.013	<0.001
66353	Rock	1.62	0.20	6	<0.001	<0.001	0.09	<0.01	13	<0.001	<0.001	<0.01	31.12	0.29	<0.001	<0.001	0.014	<0.01	0.24	0.006	<0.001
66354	Rock	2.95	0.24	9	<0.001	<0.001	0.04	<0.01	10	<0.001	<0.001	0.06	35.14	0.33	<0.001	<0.001	0.009	<0.01	0.15	0.006	<0.001
66355	Rock	1.76	0.30	28	<0.001	0.007	0.19	<0.01	14	<0.001	<0.001	<0.01	36.27	0.42	<0.001	<0.001	0.082	<0.01	0.05	0.005	<0.001
66356	Rock	1.48	0.30	6	<0.001	0.001	0.09	<0.01	15	<0.001	<0.001	0.14	32.55	0.39	0.001	<0.001	0.028	<0.01	1.64	0.008	<0.001
66357	Rock	1.09	0.25	32	<0.001	0.001	0.06	<0.01	12	<0.001	<0.001	0.07	38.71	0.39	<0.001	<0.001	0.022	<0.01	0.07	0.012	<0.001
66358	Rock	0.55	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.72	2.89	<0.01	0.006	<0.001	<0.001	<0.01	15.38	0.016	<0.001
66359	Rock	1.34	0.27	14	<0.001	<0.001	0.07	<0.01	11	<0.001	<0.001	0.07	39.12	0.50	<0.001	<0.001	0.026	<0.01	0.21	0.007	<0.001
66360	Rock	0.98	0.34	<5	<0.001	0.002	0.12	<0.01	14	<0.001	<0.001	0.01	34.20	0.51	<0.001	<0.001	0.034	<0.01	0.08	0.009	<0.001
66361	Rock	1.22	0.13	<5	<0.001	<0.001	0.12	<0.01	10	<0.001	<0.001	<0.01	40.15	0.29	<0.001	<0.001	0.024	<0.01	0.08	0.006	<0.001
66362	Rock	2.21	0.24	<5	<0.001	<0.001	0.06	<0.01	11	<0.001	<0.001	<0.01	39.56	0.44	<0.001	<0.001	0.011	<0.01	0.03	0.006	<0.001
66363	Rock	2.10	0.60	42	<0.001	<0.001	0.22	<0.01	45	<0.001	<0.001	<0.01	23.62	0.31	<0.001	<0.001	0.059	<0.01	0.03	0.005	<0.001
66364	Rock	1.66	0.30	17	<0.001	0.078	0.54	<0.01	14	<0.001	<0.001	0.02	34.52	0.45	<0.001	<0.001	0.228	<0.01	0.19	0.006	<0.001
66365	Rock	3.08	0.26	15	<0.001	0.002	0.19	<0.01	24	<0.001	<0.001	<0.01	35.96	0.54	<0.001	<0.001	0.080	<0.01	0.17	0.006	<0.001
66366	Rock	1.53	1.10	22	<0.001	<0.001	0.16	<0.01	31	<0.001	<0.001	0.05	21.43	0.27	<0.001	<0.001	0.048	<0.01	0.19	0.006	<0.001
66367	Rock	1.41	0.40	12	<0.001	<0.001	0.07	<0.01	14	<0.001	<0.001	0.01	27.22	0.35	<0.001	<0.001	0.018	<0.01	0.05	0.006	<0.001
66368	Rock	3.02	0.96	23	<0.001	<0.001	0.16	<0.01	33	<0.001	<0.001	0.31	24.54	0.30	<0.001	<0.001	0.042	<0.01	0.65	0.009	<0.001
66369	Rock	1.55	0.40	1859	<0.001	0.179	>4	0.69	>300	<0.001	<0.001	0.38	2.79	0.04	0.004	0.006	0.379	<0.01	2.03	0.009	<0.001
66370	Rock	0.50	1.50	43	<0.001	0.013	0.04	0.01	46	<0.001	<0.001	<0.01	19.97	1.60	<0.001	<0.001	0.022	<0.01	<0.01	0.003	<0.001
66371	Rock	0.80	0.27	875	<0.001	0.297	>4	0.82	>300	<0.001	<0.001	9.47	20.09	0.20	<0.001	0.007	0.178	<0.01	0.30	0.002	<0.001
66372	Rock	0.87	0.25	214	<0.001	0.024	>4	0.16	220	<0.001	<0.001	11.02	25.17	0.28	<0.001	0.001	0.016	<0.01	0.34	<0.001	0.001
66373	Rock	0.95	0.36	278	<0.001	0.068	3.77	0.30	292	<0.001	<0.001	3.87	36.29	0.66	<0.001	<0.001	0.039	<0.01	0.14	0.004	<0.001



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Project: 224
Report Date: November 04, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004589.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR.1
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66351	Rock	<0.01	0.01	<0.01	<0.01	<0.001	<0.001	39.77
66352	Rock	0.04	0.12	<0.01	0.09	<0.001	<0.001	40.24
66353	Rock	0.11	0.14	<0.01	0.11	<0.001	<0.001	34.93
66354	Rock	0.03	0.04	<0.01	0.03	<0.001	<0.001	38.59
66355	Rock	<0.01	0.02	<0.01	0.02	<0.001	<0.001	39.92
66356	Rock	0.51	0.06	<0.01	0.06	<0.001	<0.001	35.67
66357	Rock	0.11	0.08	<0.01	0.06	<0.001	<0.001	40.97
66358	Rock	8.21	0.12	<0.01	0.09	<0.001	<0.001	0.24
66359	Rock	0.28	0.10	<0.01	0.06	<0.001	<0.001	41.30
66360	Rock	0.01	0.11	<0.01	0.12	<0.001	<0.001	37.49
66361	Rock	0.03	0.10	<0.01	0.08	<0.001	<0.001	43.25
66362	Rock	<0.01	0.07	<0.01	0.06	<0.001	<0.001	42.31
66363	Rock	0.01	0.14	<0.01	0.12	<0.001	<0.001	26.96
66364	Rock	0.08	0.02	<0.01	0.02	<0.001	<0.001	38.30
66365	Rock	0.03	0.07	<0.01	0.06	0.001	<0.001	39.28
66366	Rock	0.09	0.10	<0.01	0.13	<0.001	<0.001	23.39
66367	Rock	0.02	0.12	<0.01	0.10	0.001	<0.001	30.76
66368	Rock	0.60	0.11	<0.01	0.16	<0.001	<0.001	23.01
66369	Rock	1.19	0.05	<0.01	0.04	<0.001	<0.001	11.94 62.37
66370	Rock	<0.01	0.07	<0.01	0.06	<0.001	<0.001	21.03
66371	Rock	5.04	0.03	<0.01	0.02	<0.001	<0.001	9.43 11.04
66372	Rock	5.50	<0.01	<0.01	0.01	0.003	<0.001	12.61 5.77
66373	Rock	2.18	0.05	<0.01	0.04	<0.001	<0.001	27.89



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Project:

224

Report Date:

November 04, 2009

Page:

1 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004589.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR		
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001	0.001
Pulp Duplicates																						
66371	Rock	0.80	0.27	875	<0.001	0.297	>4	0.82	>300	<0.001	<0.001	9.47	20.09	0.20	<0.001	0.007	0.178	<0.01	0.30	0.002	<0.001	
REP 66371	QC					<0.001	0.297	>4	0.83	>300	<0.001	<0.001	9.40	20.19	0.20	<0.001	0.007	0.178	<0.01	0.30	<0.001	<0.001
Reference Materials																						
STD AGPROOF	Standard	<0.01		98																		
STD AGPROOF	Standard	<0.01		95																		
STD AGPROOF	Standard	<0.01		100																		
STD AGPROOF	Standard	<0.01		94																		
STD CCU-1C	Standard																					
STD CDN-ME-6	Standard	0.30		93																		
STD CDN-ME-6	Standard	0.29		95																		
STD CDN-ME-6	Standard	0.28		99																		
STD CDN-ME-6	Standard	0.30		99																		
STD CZN-3	Standard																					
STD GBM997-6	Standard																					
STD PTC-1A	Standard																					
STD R4A	Standard				0.062	0.501	1.48	3.28	86	0.350	0.040	0.06	23.16	0.02	0.004	0.018	0.013	<0.01	0.96	0.044	0.013	
STD R4A	Standard				0.062	0.496	1.48	3.25	85	0.341	0.040	0.06	22.82	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.013	
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012	
STD CZN-3 Expected																						
STD PTC-1A Expected																						
STD CCU-1C Expected																						
STD GBM997-6 Expected																						
STD CDN-ME-6 Expected		0.27		101																		
STD AGPROOF Expected		0		100																		
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01		<5																		
BLK	Blank	<0.01		<5																		
BLK	Blank	<0.01		<5																		



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224

Report Date:

November 04, 2009

Page:

1 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004589.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR.1
		Mg	Al	Na	K	W	Hg	S	Pb
		%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0.01
Pulp Duplicates									
66371	Rock	5.04	0.03	<0.01	0.02	<0.001	<0.001	9.43	11.04
REP 66371	QC	5.01	0.03	<0.01	0.02	<0.001	<0.001	9.45	10.96
Reference Materials									
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD CCU-1C	Standard	0.31							
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD CZN-3	Standard	0.13							
STD GBM997-6	Standard	22.60							
STD PTC-1A	Standard	0.06							
STD R4A	Standard	0.85	1.27	0.07	0.50	<0.001	<0.001	16.11	
STD R4A	Standard	0.84	1.27	0.07	0.50	<0.001	0.001	15.94	
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7	
STD CZN-3 Expected		0.113							
STD PTC-1A Expected		0.05							
STD CCU-1C Expected		0.34							
STD GBM997-6 Expected		24.9095							
STD CDN-ME-6 Expected									
STD AGPROOF Expected									
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank								
BLK	Blank								
BLK	Blank								



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224

Report Date:

November 04, 2009

Page:

2 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004589.1

		WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
BLK	Blank																				
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.94	<0.01	0.006	<0.001	<0.001	<0.01	0.49	0.077	<0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.93	<0.01	0.006	<0.001	<0.001	<0.01	0.51	0.080	<0.001



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Project:

224

Report Date:

November 04, 2009

Page:

2 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004589.1

		7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR.1
		Mg	Al	Na	K	W	Hg	S	Pb
		%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0.01
BLK	Blank	<0.01							
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
G1	Prep Blank	0.51	0.92	0.10	0.53	<0.001	<0.001	<0.05	
G1	Prep Blank	0.52	0.92	0.09	0.53	<0.001	<0.001	<0.05	



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 01, 2009

Report Date: October 23, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004596.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 25

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	22	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	25	Ag Au by fire assay	30	Completed	VAN
7AR	25	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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224

Report Date:

October 23, 2009

Page:

2 of 2

Part 1

CERTIFICATE OF ANALYSIS

VAN09004596.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66157	Drill Core	1.49	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.51	<0.01	0.006	<0.001	<0.001	<0.01	13.81	0.011	<0.001
66158	Drill Core	1.86	<0.01	<5	<0.001	0.005	<0.01	<0.01	<2	0.002	0.001	0.05	2.47	<0.01	0.010	<0.001	<0.001	<0.01	9.16	0.036	0.002
66159	Drill Core	1.75	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.002	<0.001	0.06	2.12	<0.01	0.005	<0.001	<0.001	<0.01	10.52	0.027	0.002
66160	Rock Pulp	0.15	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.07	3.65	<0.01	0.004	<0.001	<0.001	<0.01	0.76	0.065	0.003
66161	Drill Core	2.10	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.002	<0.001	0.06	1.80	<0.01	0.005	<0.001	<0.001	<0.01	9.55	0.032	0.001
66162	Drill Core	1.80	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.002	0.001	0.07	1.96	<0.01	0.005	<0.001	<0.001	<0.01	10.38	0.032	0.001
66163	Drill Core	1.77	<0.01	<5	<0.001	0.006	<0.01	<0.01	<2	0.002	0.002	0.07	2.10	<0.01	0.005	<0.001	<0.001	<0.01	10.68	0.031	0.001
66164	Drill Core	1.81	<0.01	<5	<0.001	0.005	<0.01	<0.01	<2	0.002	0.001	0.06	2.00	<0.01	0.005	<0.001	<0.001	<0.01	9.73	0.032	0.001
66165	Drill Core	1.61	<0.01	<5	<0.001	0.008	<0.01	<0.01	<2	0.001	<0.001	0.06	1.74	<0.01	0.005	<0.001	<0.001	<0.01	10.24	0.031	0.001
66166	Drill Core	1.68	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.001	<0.001	0.07	1.79	<0.01	0.006	<0.001	<0.001	<0.01	9.98	0.028	0.001
66167	Drill Core	2.14	<0.01	<5	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.73	<0.01	0.007	<0.001	<0.001	<0.01	10.76	0.031	<0.001
66168	Drill Core	0.95	<0.01	<5	<0.001	0.031	<0.01	<0.01	<2	<0.001	<0.001	0.09	2.06	<0.01	0.006	<0.001	<0.001	<0.01	12.28	0.024	<0.001
66169	Drill Core	2.01	<0.01	<5	<0.001	0.008	<0.01	<0.01	<2	<0.001	<0.001	0.09	2.36	<0.01	0.007	<0.001	<0.001	<0.01	11.78	0.025	<0.001
66170	Rock Pulp	0.15	2.10	13	0.002	0.488	0.03	1.41	15	0.002	0.001	0.03	9.41	<0.01	<0.001	0.005	<0.001	<0.01	0.28	0.011	0.004
66171	Drill Core	1.81	<0.01	<5	<0.001	0.013	<0.01	<0.01	<2	<0.001	<0.001	0.09	2.68	<0.01	0.009	<0.001	<0.001	<0.01	12.03	0.024	<0.001
66172	Drill Core	3.10	<0.01	<5	<0.001	0.008	<0.01	<0.01	<2	0.001	<0.001	0.07	1.75	<0.01	0.006	<0.001	<0.001	<0.01	11.49	0.029	0.001
66173	Drill Core	1.62	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	0.001	0.06	2.33	<0.01	0.006	<0.001	<0.001	<0.01	9.48	0.033	0.003
66174	Drill Core	1.67	<0.01	<5	<0.001	0.015	<0.01	<0.01	<2	<0.001	0.001	0.12	2.33	<0.01	0.004	<0.001	<0.001	<0.01	5.26	0.103	0.001
66175	Drill Core	1.68	<0.01	<5	<0.001	0.018	<0.01	<0.01	<2	0.007	0.004	0.09	6.81	<0.01	0.003	<0.001	<0.001	<0.01	3.53	0.089	0.006
66176	Drill Core	1.69	<0.01	<5	<0.001	0.006	<0.01	<0.01	<2	0.005	0.005	0.14	5.77	<0.01	0.003	<0.001	<0.001	<0.01	4.52	0.090	0.003
66177	Drill Core	1.81	<0.01	<5	<0.001	0.008	<0.01	<0.01	<2	0.003	0.004	0.16	4.93	<0.01	0.004	<0.001	<0.001	<0.01	5.33	0.091	0.002
66178	Drill Core	1.77	<0.01	<5	<0.001	0.020	<0.01	<0.01	<2	0.006	0.004	0.13	8.20	<0.01	0.006	<0.001	<0.001	<0.01	5.57	0.080	0.007
66179	Drill Core	1.50	<0.01	<5	<0.001	0.015	<0.01	<0.01	<2	0.006	0.003	0.13	7.58	<0.01	0.006	<0.001	<0.001	<0.01	5.55	0.081	0.006
66180	Rock Pulp	0.15	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.07	3.74	<0.01	0.004	<0.001	<0.001	<0.01	0.78	0.065	0.002
66181	Drill Core	3.12	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.002	0.001	0.23	5.13	<0.01	0.020	<0.001	0.001	<0.01	12.63	0.036	0.002



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Project:

224

Report Date:

October 23, 2009

Page:

2 of 2

Part 2

CERTIFICATE OF ANALYSIS

VAN09004596.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66157	Drill Core	7.73	0.10	<0.01	0.06	<0.001	<0.001	<0.05
66158	Drill Core	5.71	1.03	<0.01	0.41	<0.001	<0.001	0.06
66159	Drill Core	6.62	0.87	<0.01	0.44	<0.001	<0.001	<0.05
66160	Rock Pulp	0.93	2.08	0.08	0.18	<0.001	<0.001	<0.05
66161	Drill Core	5.61	0.71	<0.01	0.56	<0.001	<0.001	<0.05
66162	Drill Core	5.85	0.61	<0.01	0.49	<0.001	<0.001	0.17
66163	Drill Core	6.34	0.71	<0.01	0.45	<0.001	<0.001	0.25
66164	Drill Core	5.96	0.86	<0.01	0.52	<0.001	<0.001	0.11
66165	Drill Core	6.08	0.75	<0.01	0.54	<0.001	<0.001	0.07
66166	Drill Core	5.68	0.61	<0.01	0.47	<0.001	<0.001	0.14
66167	Drill Core	5.82	0.36	<0.01	0.29	<0.001	<0.001	0.09
66168	Drill Core	6.39	0.21	<0.01	0.18	<0.001	<0.001	<0.05
66169	Drill Core	6.19	0.30	<0.01	0.24	<0.001	<0.001	0.12
66170	Rock Pulp	0.99	1.01	0.01	0.13	<0.001	<0.001	9.64
66171	Drill Core	6.16	0.28	<0.01	0.23	<0.001	<0.001	0.23
66172	Drill Core	6.62	0.57	<0.01	0.36	<0.001	<0.001	<0.05
66173	Drill Core	7.06	1.46	<0.01	0.18	<0.001	<0.001	0.06
66174	Drill Core	2.30	0.60	0.02	0.42	<0.001	<0.001	0.18
66175	Drill Core	4.16	2.96	0.02	0.26	<0.001	<0.001	0.22
66176	Drill Core	2.95	1.71	<0.01	0.42	<0.001	<0.001	0.35
66177	Drill Core	2.59	1.09	<0.01	0.38	<0.001	<0.001	0.27
66178	Drill Core	3.80	2.98	0.02	0.17	<0.001	<0.001	0.10
66179	Drill Core	2.99	2.30	0.02	0.24	<0.001	<0.001	0.08
66180	Rock Pulp	0.94	2.13	0.08	0.18	<0.001	<0.001	<0.05
66181	Drill Core	5.37	0.31	0.01	0.23	<0.001	<0.001	0.38



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224

Report Date:

October 23, 2009

Page:

1 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004596.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
66157	Drill Core	1.49	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.51	<0.01	0.006	<0.001	<0.001	<0.01	13.81	0.011	<0.001
REP 66157	QC		<0.01	<5																	
66173	Drill Core	1.62	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	0.001	0.06	2.33	<0.01	0.006	<0.001	<0.001	<0.01	9.48	0.033	0.003
REP 66173	QC				<0.001	0.004	<0.01	<0.01	<2	0.002	0.001	0.06	2.33	<0.01	0.006	<0.001	<0.001	<0.01	9.53	0.033	0.003
Core Reject Duplicates																					
66166	Drill Core	1.68	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.001	<0.001	0.07	1.79	<0.01	0.006	<0.001	<0.001	<0.01	9.98	0.028	0.001
DUP 66166	QC		<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.001	<0.001	0.07	1.76	<0.01	0.006	<0.001	<0.001	<0.01	9.91	0.028	0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	97																	
STD AGPROOF	Standard		<0.01	95																	
STD AGPROOF	Standard		<0.01	94																	
STD CDN-ME-6	Standard		0.26	96																	
STD CDN-ME-6	Standard		0.28	102																	
STD CDN-ME-6	Standard		0.26	104																	
STD R4A	Standard				0.063	0.511	1.55	3.31	87	0.359	0.040	0.06	23.88	0.03	0.004	0.018	0.013	<0.01	0.97	0.044	0.013
STD R4A	Standard				0.062	0.509	1.56	3.32	87	0.362	0.040	0.06	24.01	0.03	0.004	0.018	0.013	<0.01	0.98	0.043	0.013
STD R4A	Standard				0.062	0.501	1.48	3.28	86	0.350	0.040	0.06	23.16	0.02	0.004	0.018	0.013	<0.01	0.96	0.044	0.013
STD R4A	Standard				0.062	0.496	1.48	3.25	85	0.341	0.040	0.06	22.82	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.013
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
STD AGPROOF Expected			0	100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	



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Project:

224

Report Date:

October 23, 2009

Page:

1 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004596.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
66157	Drill Core	7.73	0.10	<0.01	0.06	<0.001	<0.001	<0.05
REP 66157	QC							
66173	Drill Core	7.06	1.46	<0.01	0.18	<0.001	<0.001	0.06
REP 66173	QC	7.13	1.50	<0.01	0.18	<0.001	<0.001	0.07
Core Reject Duplicates								
66166	Drill Core	5.68	0.61	<0.01	0.47	<0.001	<0.001	0.14
DUP 66166	QC	5.65	0.59	<0.01	0.45	<0.001	<0.001	0.13
Reference Materials								
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.86	1.29	0.07	0.52	<0.001	0.001	16.11
STD R4A	Standard	0.87	1.29	0.06	0.52	<0.001	0.001	16.19
STD R4A	Standard	0.85	1.27	0.07	0.50	<0.001	<0.001	16.11
STD R4A	Standard	0.84	1.27	0.07	0.50	<0.001	0.001	15.94
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							



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Project:

224

Report Date:

October 23, 2009

Page:

2 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004596.1

		WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
BLK	Blank	<0.01 <5																			
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.01	<0.01	0.007	<0.001	<0.001	<0.01	0.56	0.081	0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.08	<0.01	0.007	<0.001	<0.001	<0.01	0.56	0.081	0.001



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Project:

224

Report Date:

October 23, 2009

Page:

2 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004596.1

		7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.53	0.99	0.11	0.56	<0.001	<0.001	<0.05
G1	Prep Blank	0.53	0.98	0.10	0.55	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 01, 2009
Report Date: November 03, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004599.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 17

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	15	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	17	Ag Au by fire assay	30	Completed	VAN
7AR	17	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
G812	3	Specific Gravity on Pulp		Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: November 03, 2009

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN09004599.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66078	Drill Core	2.53	<0.01	<5	<0.001	0.007	<0.01	<0.01	<2	0.003	0.003	<0.01	4.89	<0.01	0.001	<0.001	<0.001	<0.01	0.30	0.005	<0.001
66079	Drill Core	2.24	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	0.002	0.02	2.57	<0.01	0.005	<0.001	<0.001	<0.01	1.09	0.009	<0.001
66080	Rock Pulp	0.15	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.07	3.70	<0.01	0.004	<0.001	<0.001	<0.01	0.78	0.064	0.002
66081	Drill Core	1.99	<0.01	<5	<0.001	0.005	<0.01	<0.01	<2	0.002	0.002	0.02	2.64	<0.01	0.007	<0.001	<0.001	<0.01	1.40	0.008	<0.001
66082	Drill Core	1.25	<0.01	<5	<0.001	0.006	<0.01	<0.01	<2	0.002	0.002	0.19	4.87	<0.01	0.022	<0.001	<0.001	<0.01	9.36	0.059	<0.001
66083	Drill Core	2.29	<0.01	<5	<0.001	0.012	<0.01	<0.01	<2	0.004	0.003	0.11	6.07	<0.01	0.019	<0.001	0.003	<0.01	5.16	0.076	<0.001
66084	Drill Core	2.31	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.26	2.20	<0.01	0.010	<0.001	<0.001	<0.01	10.71	0.030	<0.001
66085	Drill Core	1.71	0.01	<5	<0.001	0.002	0.07	<0.01	7	<0.001	<0.001	0.45	1.88	<0.01	0.007	<0.001	0.003	<0.01	15.54	0.009	<0.001
66086	Drill Core	2.28	<0.01	<5	<0.001	<0.001	0.01	<0.01	<2	<0.001	<0.001	0.26	1.23	<0.01	0.008	<0.001	<0.001	<0.01	16.81	0.013	<0.001
66087	Drill Core	1.77	0.20	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.45	4.91	0.04	0.009	<0.001	0.004	<0.01	13.69	0.011	<0.001
66088	Drill Core	2.65	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.19	1.25	<0.01	0.010	<0.001	<0.001	<0.01	16.28	0.006	<0.001
66089	Drill Core	0.78	0.06	12	<0.001	0.002	0.01	<0.01	6	<0.001	<0.001	0.38	25.42	0.35	0.004	<0.001	0.002	<0.01	5.94	0.004	<0.001
66090	Rock Pulp	0.15	2.24	22	0.001	0.495	0.03	1.40	14	0.002	0.001	0.03	9.29	<0.01	<0.001	0.005	<0.001	<0.01	0.28	0.011	0.004
66091	Drill Core	1.70	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.84	<0.01	0.009	<0.001	<0.001	<0.01	14.52	0.011	<0.001
66092	Drill Core	1.63	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.87	<0.01	0.006	<0.001	<0.001	<0.01	12.39	0.007	<0.001
66093	Drill Core	2.07	0.68	<5	<0.001	0.003	<0.01	<0.01	5	<0.001	<0.001	0.13	33.33	0.59	0.002	<0.001	0.002	<0.01	2.97	0.011	<0.001
66094	Drill Core	1.78	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.92	<0.01	0.009	<0.001	<0.001	<0.01	12.90	0.034	<0.001



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Project: 224
Report Date: November 03, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004599.1

	Method	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
	Analyte	Mg	Al	Na	K	W	Hg	S
	Unit	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05
66078	Drill Core	0.57	0.35	<0.01	0.37	<0.001	<0.001	3.95
66079	Drill Core	0.73	0.30	<0.01	0.34	<0.001	<0.001	1.22
66080	Rock Pulp	0.95	2.13	0.08	0.17	<0.001	<0.001	<0.05
66081	Drill Core	0.95	0.32	<0.01	0.39	<0.001	<0.001	1.03
66082	Drill Core	4.28	0.31	<0.01	0.26	<0.001	<0.001	0.36
66083	Drill Core	4.55	0.30	<0.01	0.25	<0.001	<0.001	0.44
66084	Drill Core	5.97	0.22	<0.01	0.18	<0.001	<0.001	0.49
66085	Drill Core	8.75	0.05	<0.01	0.04	<0.001	<0.001	0.56
66086	Drill Core	9.27	0.06	<0.01	0.05	<0.001	<0.001	0.39
66087	Drill Core	7.83	0.06	<0.01	0.05	<0.001	<0.001	4.80
66088	Drill Core	9.20	0.04	<0.01	0.03	<0.001	<0.001	0.78
66089	Drill Core	3.07	0.04	<0.01	0.03	<0.001	<0.001	28.71
66090	Rock Pulp	0.99	0.99	0.01	0.12	<0.001	<0.001	9.53
66091	Drill Core	8.47	0.07	<0.01	0.05	<0.001	<0.001	0.53
66092	Drill Core	7.29	0.05	<0.01	0.04	<0.001	<0.001	0.41
66093	Drill Core	1.78	0.06	<0.01	0.04	<0.001	<0.001	35.91
66094	Drill Core	8.06	0.24	<0.01	0.18	<0.001	<0.001	0.25



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224

Report Date:

November 03, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004599.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
REP G1	QC	<0.01		<5																	
Reference Materials																					
STD AGPROOF	Standard	<0.01		97																	
STD AGPROOF	Standard	<0.01		96																	
STD AGPROOF	Standard	<0.01		94																	
STD CDN-ME-6	Standard	0.26		96																	
STD CDN-ME-6	Standard	0.29		<5																	
STD CDN-ME-6	Standard	0.30		99																	
STD R4A	Standard				0.063	0.511	1.55	3.31	87	0.359	0.040	0.06	23.88	0.03	0.004	0.018	0.013	<0.01	0.97	0.044	0.013
STD R4A	Standard				0.062	0.509	1.56	3.32	87	0.362	0.040	0.06	24.01	0.03	0.004	0.018	0.013	<0.01	0.98	0.043	0.013
STD R4A	Standard				0.064	0.519	1.54	3.30	85	0.357	0.041	0.06	23.55	0.02	0.003	0.018	0.014	<0.01	0.97	0.043	0.014
STD R4A	Standard				0.064	0.523	1.57	3.29	87	0.366	0.041	0.06	23.58	0.03	0.004	0.018	0.014	<0.01	0.97	0.042	0.013
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected		0.27		101																	
STD AGPROOF Expected		0		100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.04	<0.01	0.007	<0.001	<0.001	<0.01	0.56	0.077	<0.001
G1	Prep Blank	<0.01			<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.99	<0.01	0.007	<0.001	<0.001	<0.01	0.55	0.076	<0.001
G1	Prep Blank	<0.01		<5																	



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224

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November 03, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004599.1

Method Analyte Unit MDL		7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	S	SG
		%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
Pulp Duplicates									
REP G1	QC								
Reference Materials									
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD R4A	Standard	0.86	1.29	0.07	0.52	<0.001	0.001	16.11	
STD R4A	Standard	0.87	1.29	0.06	0.52	<0.001	0.001	16.19	
STD R4A	Standard	0.88	1.30	0.07	0.52	<0.001	<0.001	15.92	
STD R4A	Standard	0.88	1.30	0.07	0.51	<0.001	<0.001	16.52	
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7	
STD CDN-ME-6 Expected									
STD AGPROOF Expected									
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
G1	Prep Blank	0.54	1.10	0.15	0.59	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank	0.52	1.04	0.14	0.57	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank								



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 01, 2009

Report Date: November 10, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004603.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 19

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

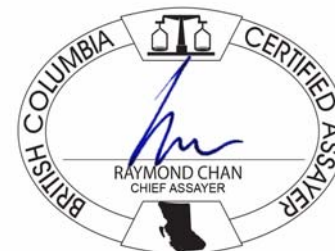
Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	17	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	19	Ag Au by fire assay	30	Completed	VAN
7AR	19	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
G812	3	Specific Gravity on Pulp		Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: November 10, 2009

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN09004603.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66200	Rock Pulp	0.15	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	4.00	<0.01	0.004	<0.001	<0.001	<0.01	0.78	0.067	0.003
66201	Drill Core	1.74	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.55	<0.01	0.017	<0.001	<0.001	<0.01	16.59	0.020	<0.001
66202	Drill Core	2.13	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.23	<0.01	0.011	<0.001	<0.001	<0.01	16.88	0.017	<0.001
66203	Drill Core	1.09	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.05	<0.01	0.010	<0.001	<0.001	<0.01	17.73	0.014	<0.001
66204	Drill Core	2.69	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.17	1.00	<0.01	0.013	<0.001	<0.001	<0.01	19.79	0.002	<0.001
66205	Drill Core	1.57	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.13	1.50	<0.01	0.013	<0.001	<0.001	<0.01	19.03	0.002	<0.001
66206	Drill Core	1.72	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.92	<0.01	0.011	<0.001	<0.001	<0.01	15.84	0.005	<0.001
66207	Drill Core	1.76	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.23	2.60	0.02	0.012	<0.001	<0.001	<0.01	18.73	0.002	<0.001
66208	Drill Core	1.74	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.16	1.13	<0.01	0.009	<0.001	<0.001	<0.01	20.43	0.009	<0.001
66209	Drill Core	2.94	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.17	2.17	0.02	0.008	<0.001	<0.001	<0.01	18.67	0.003	<0.001
66210	Rock Pulp	0.16	2.27	16	0.001	0.499	0.03	1.43	14	0.003	0.001	0.04	9.45	<0.01	<0.001	0.005	<0.001	<0.01	0.29	0.011	0.004
66211	Drill Core	1.00	0.12	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.60	10.89	0.14	0.007	<0.001	<0.001	<0.01	13.49	0.001	<0.001
66212	Drill Core	1.12	0.31	<5	<0.001	0.017	0.04	<0.01	11	<0.001	<0.001	0.10	40.66	0.74	<0.001	<0.001	0.014	<0.01	1.33	0.002	<0.001
66213	Drill Core	1.52	0.04	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	1.22	9.35	0.08	0.006	<0.001	<0.001	<0.01	9.51	<0.001	<0.001
66214	Drill Core	1.79	0.46	<5	<0.001	0.008	0.02	<0.01	7	<0.001	<0.001	0.46	32.89	0.64	0.002	<0.001	0.005	<0.01	2.52	0.001	<0.001
66215	Drill Core	1.19	0.10	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.16	9.13	0.22	0.008	<0.001	0.001	<0.01	14.87	0.002	<0.001
66216	Drill Core	1.67	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.58	<0.01	0.008	<0.001	<0.001	<0.01	16.54	0.005	<0.001
66217	Drill Core	1.43	0.28	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.29	23.04	0.67	0.005	<0.001	0.003	<0.01	8.52	0.003	<0.001
66218	Drill Core	0.78	0.51	<5	<0.001	0.003	0.01	<0.01	3	<0.001	<0.001	0.23	17.15	2.34	0.003	<0.001	0.006	<0.01	6.06	0.008	<0.001



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Project: 224
Report Date: November 10, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004603.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	SG
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66200	Rock Pulp	0.98	2.25	0.08	0.19	<0.001	<0.001	<0.05
66201	Drill Core	9.02	0.15	<0.01	0.13	<0.001	<0.001	0.13
66202	Drill Core	9.16	0.11	<0.01	0.10	<0.001	<0.001	<0.05
66203	Drill Core	9.43	0.08	<0.01	0.07	<0.001	<0.001	0.19
66204	Drill Core	10.30	0.03	<0.01	0.03	<0.001	<0.001	0.21
66205	Drill Core	10.55	0.02	<0.01	0.02	<0.001	<0.001	0.54
66206	Drill Core	9.73	0.03	<0.01	0.03	<0.001	<0.001	0.20
66207	Drill Core	9.80	0.01	<0.01	0.01	<0.001	<0.001	1.58
66208	Drill Core	10.05	0.04	<0.01	0.04	<0.001	<0.001	0.43
66209	Drill Core	9.54	0.02	<0.01	0.02	<0.001	<0.001	1.68
66210	Rock Pulp	1.01	1.00	0.01	0.13	<0.001	<0.001	9.69
66211	Drill Core	7.38	<0.01	<0.01	<0.01	<0.001	<0.001	10.91
66212	Drill Core	0.71	0.01	<0.01	0.02	<0.001	<0.001	40.76
66213	Drill Core	8.14	<0.01	<0.01	0.01	<0.001	<0.001	5.71
66214	Drill Core	3.27	0.01	<0.01	0.01	<0.001	<0.001	35.14
66215	Drill Core	8.47	0.01	<0.01	0.01	<0.001	<0.001	9.74
66216	Drill Core	9.72	0.03	<0.01	0.03	<0.001	<0.001	0.13
66217	Drill Core	4.14	0.01	<0.01	0.01	<0.001	<0.001	24.07
66218	Drill Core	3.14	0.04	<0.01	0.04	<0.001	<0.001	18.84



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224

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Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004603.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
66203	Drill Core	1.09	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.05	<0.01	0.010	<0.001	<0.001	<0.01	17.73	0.014	<0.001
REP 66203	QC																				
Core Reject Duplicates																					
66207	Drill Core	1.76	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.23	2.60	0.02	0.012	<0.001	<0.001	<0.01	18.73	0.002	<0.001
DUP 66207	QC																				
Reference Materials																					
STD AGPROOF	Standard																				
STD AGPROOF	Standard																				
STD AGPROOF	Standard																				
STD CDN-ME-6	Standard																				
STD CDN-ME-6	Standard																				
STD R4A	Standard																				
STD R4A	Standard																				
STD R4A Expected																					
STD CDN-ME-6 Expected																					
STD AGPROOF Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank																				
G1	Prep Blank																				



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Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004603.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	S	SG
		%	%	%	%	%	%	%	SG
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
Pulp Duplicates									
66203	Drill Core	9.43	0.08	<0.01	0.07	<0.001	<0.001	0.19	N.A.
REP 66203	QC	9.48	0.08	<0.01	0.07	<0.001	<0.001	0.17	
Core Reject Duplicates									
66207	Drill Core	9.80	0.01	<0.01	0.01	<0.001	<0.001	1.58	N.A.
DUP 66207	QC	10.04	0.01	<0.01	0.02	<0.001	<0.001	1.55	N.A.
Reference Materials									
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD R4A	Standard	0.88	1.30	0.07	0.52	<0.001	<0.001	15.92	
STD R4A	Standard	0.88	1.30	0.07	0.51	<0.001	<0.001	16.52	
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7	
STD CDN-ME-6 Expected									
STD AGPROOF Expected									
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
G1	Prep Blank	0.53	0.95	0.10	0.52	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank	0.52	0.94	0.10	0.51	<0.001	<0.001	<0.05	N.A.



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Client: Caracle Creek International Consulting Inc.
Suite 1409 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 02, 2009
Report Date: October 19, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004611.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 9

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	8	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	9	Ag Au by fire assay	30	Completed	VAN
7AR	9	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 19, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004611.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66069	Drill Core	2.70	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.36	<0.01	0.011	<0.001	0.001	<0.01	13.23	0.024	<0.001
66070	Rock Pulp	0.15	1.81	<5	0.001	0.484	0.03	1.43	14	0.002	0.001	0.04	9.54	<0.01	<0.001	0.005	<0.001	<0.01	0.29	0.009	0.004
66071	Drill Core	2.69	<0.01	<5	<0.001	0.002	0.06	<0.01	<2	<0.001	<0.001	0.15	1.13	<0.01	0.013	<0.001	0.004	<0.01	15.82	0.019	<0.001
66072	Drill Core	2.56	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.17	1.08	<0.01	0.014	<0.001	0.002	<0.01	15.49	0.015	<0.001
66073	Drill Core	2.48	0.12	<5	<0.001	0.003	<0.01	<0.01	5	<0.001	<0.001	0.34	5.35	0.06	0.011	<0.001	0.003	<0.01	12.70	0.003	<0.001
66074	Drill Core	2.11	0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.23	1.58	0.01	0.011	<0.001	0.001	<0.01	14.33	0.005	<0.001
66075	Drill Core	1.83	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.75	<0.01	0.009	<0.001	0.002	<0.01	15.45	0.012	<0.001
66076	Drill Core	0.98	0.13	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	27.53	0.40	0.001	<0.001	0.002	<0.01	2.34	0.006	<0.001
66077	Drill Core	1.68	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.58	<0.01	0.008	<0.001	<0.001	<0.01	15.01	0.003	<0.001



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Project: 224
Report Date: October 19, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004611.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66069	Drill Core	7.49	0.18	<0.01	0.15	<0.001	<0.001	0.08
66070	Rock Pulp	1.03	1.00	<0.01	0.12	<0.001	<0.001	9.84
66071	Drill Core	8.70	0.11	<0.01	0.09	<0.001	<0.001	0.41
66072	Drill Core	8.50	0.09	<0.01	0.07	<0.001	<0.001	0.42
66073	Drill Core	6.97	0.06	<0.01	0.05	<0.001	<0.001	5.43
66074	Drill Core	8.07	0.07	<0.01	0.06	<0.001	<0.001	1.04
66075	Drill Core	8.61	0.10	<0.01	0.09	<0.001	<0.001	0.31
66076	Drill Core	1.27	0.01	<0.01	0.01	<0.001	<0.001	31.04
66077	Drill Core	8.52	0.02	<0.01	0.01	<0.001	<0.001	0.16



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Project: 224

Report Date: October 19, 2009

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN09004611.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
REP G1	QC	<0.01		<5																	
Reference Materials																					
STD AGPROOF	Standard	<0.01		100																	
STD CDN-ME-6	Standard	0.26		96																	
STD R4A	Standard				0.062	0.510	1.51	3.32	87	0.361	0.040	0.06	23.54	0.02	0.004	0.018	0.014	<0.01	0.97	0.042	0.012
STD R4A	Standard				0.062	0.512	1.52	3.32	87	0.365	0.040	0.06	23.66	0.02	0.004	0.018	0.014	<0.01	0.97	0.043	0.013
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected		0.27		101																	
STD AGPROOF Expected		0		100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.03	<0.01	0.006	<0.001	0.001	<0.01	0.54	0.076	0.001
G1	Prep Blank	<0.01			<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.06	<0.01	0.006	<0.001	0.001	<0.01	0.59	0.077	0.001
G1	Prep Blank	<0.01		<5																	



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Project:

224

Report Date:

October 19, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004611.1

Method Analyte Unit MDL		7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
REP G1	QC							
Reference Materials								
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.86	1.28	0.06	0.51	<0.001	0.001	16.06
STD R4A	Standard	0.87	1.28	0.06	0.51	<0.001	<0.001	16.08
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.55	0.95	0.09	0.52	<0.001	<0.001	<0.05
G1	Prep Blank	0.58	0.94	0.09	0.54	<0.001	<0.001	<0.05
G1	Prep Blank							



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Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 02, 2009
Report Date: October 16, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004612.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 11

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	9	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	11	Ag Au by fire assay	30	Completed	VAN
7AR	11	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 16, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004612.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66230	Rock Pulp	0.15	0.06	26	0.002	0.619	0.71	3.24	28	0.005	0.005	0.05	9.68	<0.01	0.004	0.015	0.002	<0.01	1.45	0.053	0.006
66231	Drill Core	2.39	<0.01	<5	<0.001	0.005	<0.01	<0.01	4	0.001	<0.001	0.20	2.15	<0.01	0.007	<0.001	0.006	<0.01	13.53	0.017	<0.001
66232	Drill Core	2.31	0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.001	<0.001	0.30	2.57	<0.01	0.008	<0.001	0.002	<0.01	17.90	0.015	<0.001
66233	Drill Core	2.54	0.02	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	3.87	8.33	<0.01	0.004	<0.001	0.002	<0.01	10.57	0.016	<0.001
66234	Drill Core	1.85	0.03	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	6.53	17.86	0.01	<0.001	<0.001	0.002	<0.01	2.28	0.008	<0.001
66235	Drill Core	2.65	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.001	<0.001	0.11	1.89	<0.01	0.006	<0.001	<0.001	<0.01	12.77	0.014	<0.001
66236	Drill Core	2.73	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.001	<0.001	0.13	2.11	<0.01	0.006	<0.001	0.002	<0.01	16.66	0.013	<0.001
66237	Drill Core	1.56	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.52	2.78	<0.01	0.005	<0.001	<0.001	<0.01	2.94	0.024	<0.001
66238	Drill Core	1.42	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	2.42	9.14	<0.01	<0.001	<0.001	<0.001	<0.01	0.26	0.030	<0.001
66239	Drill Core	1.17	0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.002	0.001	0.99	7.71	0.03	<0.001	<0.001	<0.001	<0.01	0.41	0.040	<0.001
66240	Rock Pulp	0.15	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.75	<0.01	0.004	<0.001	<0.001	<0.01	0.76	0.066	0.002



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Project: 224
Report Date: October 16, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004612.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66230	Rock Pulp	1.17	1.94	0.11	0.24	<0.001	<0.001	8.11
66231	Drill Core	7.28	0.10	<0.01	0.07	<0.001	<0.001	0.69
66232	Drill Core	9.49	0.10	<0.01	0.07	<0.001	<0.001	0.80
66233	Drill Core	8.33	0.11	<0.01	0.07	<0.001	<0.001	0.90
66234	Drill Core	6.90	0.07	<0.01	0.05	<0.001	<0.001	3.46
66235	Drill Core	7.07	0.12	<0.01	0.08	<0.001	<0.001	0.62
66236	Drill Core	8.88	0.10	<0.01	0.07	<0.001	<0.001	0.55
66237	Drill Core	2.05	0.21	<0.01	0.16	<0.001	<0.001	0.44
66238	Drill Core	5.21	0.22	<0.01	0.16	<0.001	<0.001	1.43
66239	Drill Core	2.14	0.27	<0.01	0.20	<0.001	<0.001	5.32
66240	Rock Pulp	0.96	2.14	0.09	0.19	<0.001	<0.001	<0.05



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Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004612.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
Pulp Duplicates																					
66237	Drill Core	1.56	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.52	2.78	<0.01	0.005	<0.001	<0.001	<0.01	2.94	0.024	<0.001
REP 66237	QC				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.51	2.77	<0.01	0.005	<0.001	<0.001	<0.01	2.94	0.025	<0.001
Core Reject Duplicates																					
66233	Drill Core	2.54	0.02	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	3.87	8.33	<0.01	0.004	<0.001	0.002	<0.01	10.57	0.016	<0.001
DUP 66233	QC		0.02	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	3.68	7.81	<0.01	0.005	<0.001	0.002	<0.01	10.99	0.015	<0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	100																	
STD AGPROOF	Standard		<0.01	97																	
STD CDN-ME-6	Standard		0.26	96																	
STD CDN-ME-6	Standard		0.29	100																	
STD R4A	Standard				0.062	0.507	1.58	3.30	87	0.358	0.040	0.06	23.47	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A	Standard				0.062	0.512	1.51	3.29	88	0.356	0.040	0.06	23.45	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
STD AGPROOF Expected			0	100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.89	<0.01	0.007	<0.001	<0.001	<0.01	0.52	0.074	<0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.02	<0.01	0.007	<0.001	<0.001	<0.01	0.53	0.077	0.001



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Caracle Creek International Consulting Inc.

Suite 1409 - 409 Granville Street

Vancouver BC V6C 1T2 Canada

Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004612.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
66237	Drill Core	2.05	0.21	<0.01	0.16	<0.001	<0.001	0.44
REP 66237	QC	2.07	0.20	<0.01	0.16	<0.001	<0.001	0.45
Core Reject Duplicates								
66233	Drill Core	8.33	0.11	<0.01	0.07	<0.001	<0.001	0.90
DUP 66233	QC	8.25	0.10	<0.01	0.07	<0.001	<0.001	0.95
Reference Materials								
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.86	1.29	0.07	0.52	<0.001	<0.001	16.03
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.06
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.52	1.02	0.13	0.56	<0.001	<0.001	<0.05
G1	Prep Blank	0.54	1.02	0.13	0.57	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 02, 2009

Report Date: October 26, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004615.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 11

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	10	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	11	Ag Au by fire assay	30	Completed	VAN
7AR	11	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
G812	4	Specific Gravity on Pulp		Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 26, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004615.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66219	Drill Core	2.83	0.02	<5	<0.001	0.001	<0.01	<0.01	<2	0.001	<0.001	5.01	16.39	0.01	0.002	<0.001	0.002	<0.01	3.36	0.025	<0.001
66220	Rock Pulp	0.15	<0.01	<5	<0.001	0.004	<0.01	<0.01	<2	0.002	<0.001	0.07	3.75	<0.01	0.004	<0.001	<0.001	<0.01	0.75	0.066	0.003
66221	Drill Core	2.04	0.02	<5	<0.001	<0.001	<0.01	<0.01	2	0.002	<0.001	5.08	20.43	0.03	<0.001	<0.001	0.002	<0.01	1.16	0.024	<0.001
66222	Drill Core	1.84	0.04	8	<0.001	0.002	0.04	<0.01	7	0.001	<0.001	1.90	29.55	0.11	<0.001	<0.001	0.019	<0.01	0.88	0.016	<0.001
66223	Drill Core	2.90	0.01	6	<0.001	0.007	0.01	<0.01	6	0.001	<0.001	0.54	4.02	0.02	0.009	<0.001	0.010	<0.01	16.66	0.017	<0.001
66224	Drill Core	2.44	0.17	6	<0.001	0.002	0.03	<0.01	7	<0.001	<0.001	1.14	32.42	0.46	<0.001	<0.001	0.014	<0.01	0.10	0.013	<0.001
66225	Drill Core	1.40	0.17	<5	<0.001	0.001	0.03	<0.01	6	<0.001	<0.001	0.03	42.73	0.68	<0.001	<0.001	0.009	<0.01	0.11	0.012	<0.001
66226	Drill Core	2.45	0.02	<5	<0.001	0.001	<0.01	<0.01	<2	0.002	0.001	1.06	6.75	0.03	0.005	<0.001	0.002	<0.01	9.34	0.020	<0.001
66227	Drill Core	1.11	0.06	<5	<0.001	0.001	0.01	<0.01	3	0.002	0.001	1.85	18.08	0.19	<0.001	<0.001	0.003	<0.01	0.28	0.017	<0.001
66228	Drill Core	2.73	0.08	<5	<0.001	0.002	0.03	<0.01	6	0.001	<0.001	<0.01	40.27	0.49	<0.001	<0.001	0.009	<0.01	0.02	0.012	<0.001
66229	Drill Core	1.43	0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.001	0.001	1.00	4.70	0.02	0.007	<0.001	0.001	<0.01	10.61	0.017	<0.001



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Vancouver BC V6C 1T2 Canada

Project: 224
Report Date: October 26, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004615.1

	Method	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
	Analyte	Mg	Al	Na	K	W	Hg	S	SG
	Unit	%	%	%	%	%	%	%	
	MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
66219	Drill Core	6.68	0.11	<0.01	0.08	<0.001	<0.001	4.53	N.A.
66220	Rock Pulp	0.95	2.14	0.09	0.19	<0.001	<0.001	<0.05	N.A.
66221	Drill Core	7.04	0.12	<0.01	0.09	<0.001	<0.001	9.62	N.A.
66222	Drill Core	4.83	0.09	<0.01	0.06	<0.001	<0.001	29.10	N.A.
66223	Drill Core	9.26	0.09	<0.01	0.06	<0.001	<0.001	2.21	2.87
66224	Drill Core	4.86	0.09	<0.01	0.06	<0.001	<0.001	31.02	3.87
66225	Drill Core	0.14	0.10	<0.01	0.07	<0.001	<0.001	45.71	4.39
66226	Drill Core	7.01	0.14	<0.01	0.11	<0.001	<0.001	4.11	2.95
66227	Drill Core	4.11	0.13	<0.01	0.10	<0.001	<0.001	14.43	N.A.
66228	Drill Core	0.02	0.11	<0.01	0.08	<0.001	<0.001	43.97	N.A.
66229	Drill Core	6.82	0.12	<0.01	0.09	<0.001	<0.001	2.10	N.A.



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Project: 224

Report Date: October 26, 2009

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN09004615.1

	Method	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
	Unit	kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
Reference Materials																					
STD AGPROOF	Standard	<0.01		97																	
STD AGPROOF	Standard	<0.01		94																	
STD CDN-ME-6	Standard	0.29		100																	
STD CDN-ME-6	Standard	0.26		104																	
STD R4A	Standard				0.062	0.507	1.58	3.30	87	0.358	0.040	0.06	23.47	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A	Standard				0.062	0.512	1.51	3.29	88	0.356	0.040	0.06	23.45	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected		0.27		101																	
STD AGPROOF Expected		0		100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.93	<0.01	0.008	<0.001	<0.001	<0.01	0.57	0.077	<0.001
G1	Prep Blank	<0.01	<0.01	5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.96	<0.01	0.008	<0.001	<0.001	<0.01	0.56	0.075	<0.001



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Project:

224

Report Date:

October 26, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004615.1

	Method	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
	Analyte	Mg	Al	Na	K	W	Hg	S	SG
	Unit	%	%	%	%	%	%	%	
	MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
Reference Materials									
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD R4A	Standard	0.86	1.29	0.07	0.52	<0.001	<0.001	16.03	
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.06	
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7	
STD CDN-ME-6 Expected									
STD AGPROOF Expected									
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
G1	Prep Blank	0.53	1.08	0.15	0.59	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank	0.52	1.09	0.16	0.58	<0.001	<0.001	<0.05	N.A.



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Client:

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Suite 1409 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 02, 2009

Report Date: October 26, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004618.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 9

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	8	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	9	Ag Au by fire assay	30	Completed	VAN
7AR	9	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
G812	5	Specific Gravity on Pulp		Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 26, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004618.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66268	Drill Core	1.79	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.001	<0.001	0.22	3.05	<0.01	0.009	<0.001	0.002	<0.01	18.11	0.017	<0.001
66269	Drill Core	1.66	0.16	12	<0.001	0.004	0.21	<0.01	12	<0.001	<0.001	<0.01	41.85	0.25	<0.001	<0.001	0.071	<0.01	0.04	0.005	<0.001
66270	Rock Pulp	0.15	0.05	27	0.002	0.618	0.70	3.23	27	0.005	0.005	0.05	9.67	<0.01	0.004	0.015	0.001	<0.01	1.51	0.053	0.007
66271	Drill Core	2.21	0.13	11	<0.001	0.003	0.07	<0.01	11	0.001	<0.001	<0.01	42.41	0.33	<0.001	<0.001	0.021	<0.01	0.20	0.015	<0.001
66272	Drill Core	0.80	0.24	25	<0.001	0.035	0.77	<0.01	23	0.001	<0.001	0.16	39.48	0.50	<0.001	<0.001	0.288	<0.01	0.22	0.023	<0.001
66273	Drill Core	2.16	0.03	<5	<0.001	0.001	<0.01	<0.01	2	0.001	<0.001	0.86	6.72	0.03	0.008	<0.001	0.002	<0.01	13.11	0.021	<0.001
66274	Drill Core	1.91	0.17	<5	<0.001	0.002	0.05	<0.01	5	0.001	<0.001	0.72	24.49	0.21	0.002	<0.001	0.017	<0.01	2.36	0.007	<0.001
66275	Drill Core	1.78	0.10	<5	<0.001	0.001	0.07	<0.01	7	0.001	<0.001	0.25	30.50	0.24	<0.001	<0.001	0.025	<0.01	0.28	0.017	<0.001
66276	Drill Core	1.88	0.02	<5	<0.001	0.001	<0.01	<0.01	<2	0.002	0.001	0.34	3.64	<0.01	0.008	<0.001	0.003	<0.01	13.92	0.020	<0.001



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Project: 224
Report Date: October 26, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004618.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	S	SG
		%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
66268	Drill Core	9.09	0.09	<0.01	0.06	<0.001	<0.001	0.60	2.84
66269	Drill Core	0.04	0.13	<0.01	0.09	<0.001	<0.001	44.75	4.27
66270	Rock Pulp	1.20	1.97	0.12	0.24	<0.001	<0.001	8.19	N.A.
66271	Drill Core	0.04	0.16	<0.01	0.10	0.001	<0.001	45.90	4.30
66272	Drill Core	0.45	0.13	<0.01	0.09	0.001	<0.001	41.74	4.16
66273	Drill Core	8.25	0.12	<0.01	0.08	<0.001	<0.001	4.58	2.94
66274	Drill Core	3.15	0.07	<0.01	0.06	0.002	<0.001	25.31	N.A.
66275	Drill Core	0.89	0.20	<0.01	0.14	<0.001	<0.001	33.05	N.A.
66276	Drill Core	7.44	0.18	<0.01	0.13	<0.001	<0.001	1.72	N.A.



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Project:

224

Report Date:

October 26, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004618.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Pulp Duplicates																					
REP G1	QC	<0.01		<5																	
Reference Materials																					
STD AGPROOF	Standard	<0.01		97																	
STD AGPROOF	Standard	<0.01		94																	
STD CDN-ME-6	Standard	0.29		100																	
STD CDN-ME-6	Standard	0.26		104																	
STD R4A	Standard				0.062	0.506	1.50	3.28	87	0.356	0.040	0.06	23.54	0.02	0.004	0.017	0.013	<0.01	0.96	0.043	0.012
STD R4A	Standard				0.062	0.507	1.50	3.29	88	0.358	0.040	0.06	23.64	0.02	0.004	0.018	0.013	<0.01	0.97	0.043	0.012
STD R4A	Standard				0.062	0.507	1.58	3.30	87	0.358	0.040	0.06	23.47	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A	Standard				0.062	0.512	1.51	3.29	88	0.356	0.040	0.06	23.45	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected		0.27		101																	
STD AGPROOF Expected		0		100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
Prep Wash																					
G1	Prep Blank	<0.01			<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.93	<0.01	0.007	<0.001	<0.001	<0.01	0.56	0.074	<0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.02	<0.01	0.008	<0.001	<0.001	<0.01	0.59	0.077	<0.001
G1	Prep Blank	<0.01		<5																	



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Project:

224

Report Date:

October 26, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004618.1

Method Analyte Unit MDL		7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	S	SG
		%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
Pulp Duplicates									
REP G1	QC								
Reference Materials									
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.06	
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.12	
STD R4A	Standard	0.86	1.29	0.07	0.52	<0.001	<0.001	16.03	
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.06	
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7	
STD CDN-ME-6 Expected									
STD AGPROOF Expected									
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
G1	Prep Blank	0.52	0.99	0.12	0.52	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank	0.56	1.03	0.13	0.58	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank								



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Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 02, 2009
Report Date: October 30, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004625.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
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CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	9	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	10	Ag Au by fire assay	30	Completed	VAN
7AR	10	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
G812	9	Specific Gravity on Pulp		Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 30, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004625.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66241	Drill Core	1.76	0.01	<5	<0.001	<0.001	<0.01	<0.01	2	0.001	<0.001	0.27	3.27	<0.01	0.009	<0.001	0.002	<0.01	16.30	0.017	<0.001
66242	Drill Core	2.29	0.40	164	<0.001	0.070	0.32	<0.01	169	0.001	<0.001	0.08	40.30	0.63	<0.001	<0.001	0.193	<0.01	0.04	0.011	<0.001
66243	Drill Core	1.80	0.44	60	<0.001	0.020	0.19	<0.01	56	0.001	<0.001	<0.01	41.62	0.46	<0.001	<0.001	0.074	<0.01	0.30	0.014	<0.001
66244	Drill Core	2.28	0.39	58	<0.001	0.049	0.23	<0.01	59	0.001	<0.001	<0.01	38.83	0.37	<0.001	<0.001	0.120	<0.01	0.20	0.012	<0.001
66245	Drill Core	2.88	0.19	18	<0.001	0.005	0.10	<0.01	12	<0.001	<0.001	0.01	40.19	0.36	<0.001	<0.001	0.019	<0.01	0.19	0.013	<0.001
66246	Drill Core	2.39	0.13	13	<0.001	0.008	0.15	<0.01	11	0.001	<0.001	<0.01	42.92	0.26	<0.001	<0.001	0.025	<0.01	0.05	0.012	<0.001
66247	Drill Core	2.72	0.16	48	<0.001	0.020	0.07	<0.01	43	<0.001	<0.001	0.01	40.39	0.59	<0.001	<0.001	0.036	<0.01	0.09	0.012	<0.001
66248	Drill Core	2.16	0.15	23	<0.001	0.018	0.30	<0.01	21	0.001	<0.001	0.33	38.87	0.81	<0.001	<0.001	0.059	<0.01	0.10	0.019	<0.001
66249	Drill Core	2.06	0.03	<5	<0.001	0.003	0.02	<0.01	3	0.001	<0.001	0.83	5.50	0.03	0.010	<0.001	0.010	<0.01	15.90	0.016	<0.001
66250	Rock Pulp	0.14	0.05	29	0.001	0.609	0.71	3.25	28	0.005	0.005	0.05	9.76	<0.01	0.004	0.016	0.002	<0.01	1.49	0.053	0.007



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Project:

224

Report Date:

October 30, 2009

Page:

2 of 2

Part 2

CERTIFICATE OF ANALYSIS

VAN09004625.1

	Method	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
	Analyte	Mg	Al	Na	K	W	Hg	S	SG
	Unit	%	%	%	%	%	%	%	
	MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
66241	Drill Core	8.52	0.09	<0.01	0.06	<0.001	<0.001	1.40	2.83
66242	Drill Core	0.26	0.11	<0.01	0.07	<0.001	<0.001	42.21	4.27
66243	Drill Core	0.02	0.17	<0.01	0.11	<0.001	<0.001	44.25	4.37
66244	Drill Core	0.02	0.15	<0.01	0.10	<0.001	<0.001	41.05	4.20
66245	Drill Core	0.04	0.09	<0.01	0.05	<0.001	<0.001	43.44	4.31
66246	Drill Core	0.02	0.10	<0.01	0.07	<0.001	<0.001	45.78	4.52
66247	Drill Core	0.02	0.11	<0.01	0.08	<0.001	<0.001	43.06	4.23
66248	Drill Core	1.18	0.10	<0.01	0.07	<0.001	<0.001	39.80	4.15
66249	Drill Core	8.68	0.10	<0.01	0.06	<0.001	<0.001	3.69	2.93
66250	Rock Pulp	1.20	1.96	0.12	0.24	<0.001	<0.001	8.21	N.A.



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224

Report Date:

October 30, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004625.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Core Reject Duplicates																					
66244	Drill Core	2.28	0.39	58	<0.001	0.049	0.23	<0.01	59	0.001	<0.001	<0.01	38.83	0.37	<0.001	<0.001	0.120	<0.01	0.20	0.012	<0.001
DUP 66244	QC		0.44	89	<0.001	0.073	0.35	<0.01	89	0.001	<0.001	<0.01	39.23	0.39	<0.001	<0.001	0.180	<0.01	0.16	0.014	<0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	97																	
STD AGPROOF	Standard		<0.01	96																	
STD AGPROOF	Standard		<0.01	100																	
STD CDN-ME-6	Standard		0.29	100																	
STD CDN-ME-6	Standard		0.29	98																	
STD CDN-ME-6	Standard		0.28	99																	
STD R4A	Standard				0.062	0.509	1.54	3.30	86	0.354	0.040	0.06	23.67	0.03	0.004	0.018	0.013	<0.01	0.96	0.043	0.012
STD R4A	Standard				0.061	0.505	1.46	3.26	86	0.348	0.040	0.06	23.44	0.02	0.004	0.018	0.013	<0.01	0.95	0.043	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
STD AGPROOF Expected			0	100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.95	<0.01	0.007	<0.001	<0.001	<0.01	0.65	0.071	<0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.97	<0.01	0.007	<0.001	<0.001	<0.01	0.88	0.076	0.001



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Project:

224

Report Date:

October 30, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004625.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
		Mg	Al	Na	K	W	Hg	S	SG
		%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
Core Reject Duplicates									
66244	Drill Core	0.02	0.15	<0.01	0.10	<0.001	<0.001	41.05	4.20
DUP 66244	QC	0.02	0.15	<0.01	0.10	<0.001	<0.001	41.99	N.A.
Reference Materials									
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD AGPROOF	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD CDN-ME-6	Standard								
STD R4A	Standard	0.85	1.28	0.06	0.51	<0.001	<0.001	16.07	
STD R4A	Standard	0.85	1.26	0.06	0.50	<0.001	<0.001	15.91	
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7	
STD CDN-ME-6 Expected									
STD AGPROOF Expected									
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
G1	Prep Blank	0.59	1.04	0.14	0.57	<0.001	<0.001	<0.05	N.A.
G1	Prep Blank	0.72	1.06	0.14	0.58	<0.001	<0.001	<0.05	N.A.



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Submitted By: Stephen Wetherup

Receiving Lab: Canada-Vancouver

Received: October 02, 2009

Report Date: October 30, 2009

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004628.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 24

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	22	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	24	Ag Au by fire assay	30	Completed	VAN
7AR	24	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

224

Report Date:

October 30, 2009

Page:

2 of 2

Part 1

CERTIFICATE OF ANALYSIS

VAN09004628.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66045	Drill Core	3.05	<0.01	<5	<0.001	0.009	0.01	<0.01	<2	0.003	0.004	<0.01	4.35	<0.01	0.002	<0.001	<0.001	<0.01	0.45	0.003	<0.001
66046	Drill Core	0.94	<0.01	<5	<0.001	0.005	<0.01	<0.01	<2	0.006	0.007	<0.01	7.30	<0.01	0.002	<0.001	<0.001	<0.01	0.43	0.004	<0.001
66047	Drill Core	1.96	0.01	6	<0.001	0.031	<0.01	<0.01	<2	0.002	0.002	<0.01	1.92	<0.01	0.002	<0.001	<0.001	<0.01	0.69	0.005	<0.001
66048	Drill Core	1.75	<0.01	<5	<0.001	0.005	<0.01	<0.01	<2	0.002	0.002	<0.01	3.00	<0.01	0.003	<0.001	<0.001	<0.01	0.81	0.005	<0.001
66049	Drill Core	3.31	<0.01	7	<0.001	0.012	<0.01	<0.01	<2	0.004	0.004	0.12	5.90	<0.01	0.016	<0.001	<0.001	<0.01	3.91	0.070	<0.001
66050	Rock Pulp	0.15	2.12	22	0.002	0.487	0.02	1.43	14	0.002	0.001	0.03	9.38	<0.01	<0.001	0.005	<0.001	<0.01	0.28	0.011	0.004
66051	Drill Core	0.73	0.01	<5	<0.001	0.006	<0.01	<0.01	<2	0.002	0.002	0.20	4.85	<0.01	0.037	<0.001	<0.001	<0.01	7.80	0.083	<0.001
66052	Drill Core	2.43	<0.01	<5	<0.001	0.013	<0.01	<0.01	<2	0.004	0.003	0.11	6.22	<0.01	0.013	<0.001	<0.001	<0.01	4.83	0.089	<0.001
66053	Drill Core	2.49	<0.01	<5	<0.001	0.010	<0.01	<0.01	<2	0.002	0.002	0.14	3.90	<0.01	0.006	<0.001	<0.001	<0.01	7.44	0.073	<0.001
66054	Drill Core	5.84	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.51	<0.01	0.008	<0.001	<0.001	<0.01	14.99	0.015	<0.001
66055	Drill Core	2.67	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.02	0.91	<0.01	0.009	<0.001	<0.001	<0.01	14.31	0.024	<0.001
66056	Drill Core	4.74	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	1.28	<0.01	0.015	<0.001	<0.001	<0.01	12.50	0.033	<0.001
66057	Drill Core	2.52	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	1.38	<0.01	0.022	<0.001	<0.001	<0.01	12.21	0.038	<0.001
66058	Drill Core	2.53	<0.01	7	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.03	1.43	<0.01	0.012	<0.001	<0.001	<0.01	12.05	0.039	<0.001
66059	Drill Core	2.57	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.81	<0.01	0.011	<0.001	<0.001	<0.01	11.18	0.041	<0.001
66060	Drill Core	2.49	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.04	1.79	<0.01	0.009	<0.001	<0.001	<0.01	9.31	0.051	<0.001
66061	Drill Core	2.48	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.03	2.35	<0.01	0.009	<0.001	<0.001	<0.01	8.82	0.051	<0.001
66062	Drill Core	2.69	<0.01	<5	<0.001	0.008	<0.01	<0.01	<2	<0.001	<0.001	0.03	1.33	<0.01	0.010	<0.001	<0.001	<0.01	12.70	0.033	<0.001
66063	Drill Core	2.30	<0.01	<5	<0.001	0.005	<0.01	<0.01	<2	0.001	<0.001	0.03	1.80	<0.01	0.010	<0.001	<0.001	<0.01	11.27	0.041	<0.001
66064	Drill Core	2.66	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.001	<0.001	0.03	1.77	<0.01	0.009	<0.001	<0.001	<0.01	10.83	0.038	<0.001
66065	Rock Pulp	0.15	<0.01	17	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.07	3.64	<0.01	0.004	<0.001	<0.001	<0.01	0.76	0.066	0.002
66066	Drill Core	2.71	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.03	1.88	<0.01	0.010	<0.001	<0.001	<0.01	9.21	0.046	<0.001
66067	Drill Core	2.50	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.57	<0.01	0.025	<0.001	<0.001	<0.01	10.70	0.042	<0.001
66068	Drill Core	2.74	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.79	<0.01	0.021	<0.001	<0.001	<0.01	11.04	0.037	<0.001



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Project: 224
Report Date: October 30, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004628.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66045	Drill Core	0.52	0.35	0.01	0.35	<0.001	<0.001	3.87
66046	Drill Core	0.45	0.45	<0.01	0.45	<0.001	<0.001	7.29
66047	Drill Core	0.48	0.37	<0.01	0.38	<0.001	<0.001	1.14
66048	Drill Core	0.45	0.41	<0.01	0.43	<0.001	<0.001	2.50
66049	Drill Core	2.73	0.46	0.02	0.40	<0.001	<0.001	0.59
66050	Rock Pulp	1.01	1.04	0.02	0.14	<0.001	<0.001	9.54
66051	Drill Core	3.71	0.52	<0.01	0.42	<0.001	<0.001	0.46
66052	Drill Core	3.97	0.39	<0.01	0.32	<0.001	<0.001	0.76
66053	Drill Core	4.31	0.43	<0.01	0.34	<0.001	<0.001	0.37
66054	Drill Core	8.08	0.09	<0.01	0.07	<0.001	<0.001	0.50
66055	Drill Core	8.32	0.34	<0.01	0.21	<0.001	<0.001	0.25
66056	Drill Core	7.62	0.66	<0.01	0.42	<0.001	<0.001	0.66
66057	Drill Core	7.04	0.58	<0.01	0.42	<0.001	<0.001	0.95
66058	Drill Core	6.96	0.46	<0.01	0.30	<0.001	<0.001	0.89
66059	Drill Core	6.24	0.50	<0.01	0.31	<0.001	<0.001	1.04
66060	Drill Core	4.96	0.67	<0.01	0.44	<0.001	<0.001	0.27
66061	Drill Core	4.88	0.74	<0.01	0.50	<0.001	<0.001	1.43
66062	Drill Core	7.26	0.46	<0.01	0.27	<0.001	<0.001	0.52
66063	Drill Core	6.28	0.49	<0.01	0.30	<0.001	<0.001	0.73
66064	Drill Core	6.28	0.60	<0.01	0.39	<0.001	<0.001	1.09
66065	Rock Pulp	0.93	2.10	0.08	0.19	<0.001	<0.001	<0.05
66066	Drill Core	5.71	0.81	<0.01	0.53	<0.001	<0.001	1.37
66067	Drill Core	5.79	0.37	<0.01	0.30	<0.001	<0.001	0.14
66068	Drill Core	5.83	0.26	<0.01	0.23	<0.001	<0.001	0.07



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Project:

224

Report Date:

October 30, 2009

Page:

1 of 2

Part 1

QUALITY CONTROL REPORT

VAN09004628.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
Pulp Duplicates																					
66057	Drill Core	2.52	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	1.38	<0.01	0.022	<0.001	<0.001	<0.01	12.21	0.038	<0.001
REP 66057	QC	<0.01		5																	
66061	Drill Core	2.48	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.03	2.35	<0.01	0.009	<0.001	<0.001	<0.01	8.82	0.051	<0.001
REP 66061	QC				<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.03	2.37	<0.01	0.009	<0.001	<0.001	<0.01	8.80	0.051	<0.001
Core Reject Duplicates																					
66058	Drill Core	2.53	<0.01	7	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.03	1.43	<0.01	0.012	<0.001	<0.001	<0.01	12.05	0.039	<0.001
DUP 66058	QC	<0.01		<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.03	1.43	<0.01	0.012	<0.001	<0.001	<0.01	12.12	0.039	<0.001
Reference Materials																					
STD AGPROOF	Standard	<0.01		96																	
STD AGPROOF	Standard	<0.01		95																	
STD AGPROOF	Standard	<0.01		100																	
STD CDN-ME-6	Standard	0.29		98																	
STD CDN-ME-6	Standard	0.28		102																	
STD CDN-ME-6	Standard	0.28		99																	
STD R4A	Standard				0.062	0.506	1.50	3.28	87	0.356	0.040	0.06	23.54	0.02	0.004	0.017	0.013	<0.01	0.96	0.043	0.012
STD R4A	Standard				0.062	0.507	1.50	3.29	88	0.358	0.040	0.06	23.64	0.02	0.004	0.018	0.013	<0.01	0.97	0.043	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected		0.27		101																	
STD AGPROOF Expected		0		100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	2.09	<0.01	0.009	<0.001	<0.001	<0.01	0.68	0.076	<0.001



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Project:

224

Report Date:

October 30, 2009

Page:

1 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004628.1

Method		7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Mg	Al	Na	K	W	Hg	S
Unit		%	%	%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Pulp Duplicates								
66057	Drill Core	7.04	0.58	<0.01	0.42	<0.001	<0.001	0.95
REP 66057	QC							
66061	Drill Core	4.88	0.74	<0.01	0.50	<0.001	<0.001	1.43
REP 66061	QC	4.88	0.77	<0.01	0.51	<0.001	<0.001	1.44
Core Reject Duplicates								
66058	Drill Core	6.96	0.46	<0.01	0.30	<0.001	<0.001	0.89
DUP 66058	QC	6.96	0.50	<0.01	0.33	<0.001	<0.001	0.91
Reference Materials								
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.06
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.12
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.56	1.23	0.18	0.61	<0.001	<0.001	<0.05



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Project: 224

Report Date: October 30, 2009

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN09004628.1

		WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.02	<0.01	0.008	<0.001	<0.001	<0.01	0.70	0.076	<0.001



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Project:

224

Report Date:

October 30, 2009

Page:

2 of 2

Part 2

QUALITY CONTROL REPORT

VAN09004628.1

		7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
G1	Prep Blank	0.59	1.12	0.14	0.56	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 02, 2009
Report Date: October 23, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004629.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 5

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	5	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	5	Ag Au by fire assay	30	Completed	VAN
7AR	5	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

224

Report Date:

October 23, 2009

Page:

2 of 2

Part 1

CERTIFICATE OF ANALYSIS

VAN09004629.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001
66251	Drill Core	1.74	<0.01	<5	<0.001	<0.001	<0.01	0.02	<2	0.001	<0.001	0.14	2.17	<0.01	0.015	<0.001	<0.001	<0.01	18.23	0.018
66252	Drill Core	1.31	<0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.002	<0.001	0.16	2.69	<0.01	0.015	<0.001	<0.001	<0.01	16.05	0.022
66253	Drill Core	1.72	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.001	<0.001	0.13	2.10	<0.01	0.023	<0.001	0.001	<0.01	15.41	0.015
66254	Drill Core	1.44	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.002	<0.001	0.11	2.10	<0.01	0.017	<0.001	<0.001	<0.01	13.80	0.027
66255	Drill Core	2.11	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.17	2.93	<0.01	0.017	<0.001	0.002	<0.01	18.20	0.019



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Project: 224
Report Date: October 23, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004629.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66251	Drill Core	9.34	0.09	<0.01	0.06	<0.001	<0.001	0.21
66252	Drill Core	8.13	0.13	<0.01	0.08	<0.001	<0.001	0.50
66253	Drill Core	7.93	0.12	<0.01	0.08	<0.001	<0.001	0.22
66254	Drill Core	7.29	0.15	<0.01	0.10	<0.001	<0.001	0.43
66255	Drill Core	9.07	0.13	<0.01	0.09	<0.001	<0.001	0.63



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Project: 224

Report Date: October 23, 2009

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN09004629.1

	Method	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
	Unit	kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001
Reference Materials																					
STD AGPROOF	Standard	<0.01		97																	
STD AGPROOF	Standard	<0.01		94																	
STD CDN-ME-6	Standard	0.29		100																	
STD CDN-ME-6	Standard	0.26		104																	
STD R4A	Standard				0.062	0.507	1.58	3.30	87	0.358	0.040	0.06	23.47	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A	Standard				0.062	0.512	1.51	3.29	88	0.356	0.040	0.06	23.45	0.02	0.004	0.018	0.014	<0.01	0.96	0.044	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected		0.27		101																	
STD AGPROOF Expected		0		100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
BLK	Blank	<0.01		<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.04	<0.01	0.007	<0.001	<0.001	<0.01	0.62	0.078	<0.001



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Project:

224

Report Date:

October 23, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004629.1

	Method	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Mg	Al	Na	K	W	Hg	S
	Unit	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05
Reference Materials								
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.86	1.29	0.07	0.52	<0.001	<0.001	16.03
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.06
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.57	1.11	0.14	0.57	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 02, 2009
Report Date: October 16, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004632.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 2

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	2	Crush, split and pulverize 250 g rock to 200 mesh			VAN
G6	2	Ag Au by fire assay	30	Completed	VAN
7AR	2	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

224

Report Date:

October 16, 2009

Page:

2 of 2

Part 1

CERTIFICATE OF ANALYSIS

VAN09004632.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001
66266	Drill Core	1.84	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.32	3.36	<0.01	0.014	<0.001	0.001	<0.01	17.27	0.017
66267	Drill Core	1.61	0.01	<5	<0.001	0.004	<0.01	<0.01	4	0.001	<0.001	0.36	3.04	<0.01	0.012	<0.001	0.003	<0.01	16.34	0.022



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Project: 224
Report Date: October 16, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004632.1

	Method Analyte Unit MDL	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Mg	Al	Na	K	W	Hg	S
		%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.001	0.05
66266	Drill Core	9.03	0.05	0.01	0.03	<0.001	<0.001	0.96
66267	Drill Core	8.65	0.08	<0.01	0.05	<0.001	<0.001	0.80



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Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 1

QUALITY CONTROL REPORT

VAN09004632.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
Reference Materials																						
STD AGPROOF	Standard	<0.01		100																		
STD CDN-ME-6	Standard	0.26		96																		
STD R4A	Standard				0.063	0.503	1.46	3.27	87	0.349	0.040	0.06	23.59	0.02	0.003	0.018	0.013	<0.01	0.95	0.041	0.012	
STD R4A	Standard				0.062	0.506	1.47	3.27	87	0.349	0.040	0.06	23.50	0.02	0.003	0.018	0.013	<0.01	0.95	0.043	0.012	
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012	
STD CDN-ME-6 Expected		0.27		101																		
STD AGPROOF Expected		0		100																		
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01		<5																		
BLK	Blank	<0.01		<5																		
Prep Wash																						
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	2.06	<0.01	0.006	<0.001	<0.001	<0.01	0.52	0.078	<0.001	



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Project:

224

Report Date:

October 16, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004632.1

Method		7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Mg	Al	Na	K	W	Hg	S
Unit		%	%	%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.001	0.001	0.05
Reference Materials								
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.85	1.26	0.05	0.51	<0.001	0.001	15.98
STD R4A	Standard	0.85	1.25	0.05	0.51	<0.001	<0.001	15.93
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.53	1.01	0.11	0.55	<0.001	<0.001	<0.05



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Submitted By: Stephen Wetherup
Receiving Lab: Canada-Vancouver
Received: October 02, 2009
Report Date: October 30, 2009
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN09004633.1

CLIENT JOB INFORMATION

Project: 224
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Caracle Creek Int'l Consulting (ON)
25 Frood Road
Sudbury ON P3C 4Y9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	9	Crush split and pulverize 250g drill core to 200 mesh			VAN
G6	10	Ag Au by fire assay	30	Completed	VAN
7AR	10	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
G812	3	Specific Gravity on Pulp		Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
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** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: 224
Report Date: October 30, 2009

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09004633.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
66256	Drill Core	1.42	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.31	3.62	<0.01	0.014	<0.001	0.002	<0.01	17.01	0.019	<0.001
66257	Drill Core	1.50	<0.01	<5	<0.001	0.009	<0.01	<0.01	<2	0.003	0.001	0.20	5.03	<0.01	0.014	<0.001	0.005	<0.01	15.80	0.023	<0.001
66258	Drill Core	2.03	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	0.001	0.15	3.09	<0.01	0.013	<0.001	0.002	<0.01	16.26	0.025	<0.001
66259	Drill Core	2.41	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.002	<0.001	0.11	2.18	<0.01	0.012	<0.001	0.002	<0.01	17.00	0.019	<0.001
66260	Rock Pulp	0.15	<0.01	<5	<0.001	0.003	<0.01	<0.01	<2	0.002	<0.001	0.07	3.65	<0.01	0.003	<0.001	<0.001	<0.01	0.73	0.065	0.002
66261	Drill Core	2.94	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	0.002	<0.001	0.28	2.98	<0.01	0.013	<0.001	<0.001	<0.01	16.52	0.029	<0.001
66262	Drill Core	1.75	0.07	<5	<0.001	0.001	<0.01	<0.01	4	0.002	0.001	2.11	21.22	0.15	0.002	<0.001	0.001	<0.01	2.96	0.022	<0.001
66263	Drill Core	3.00	0.01	<5	<0.001	0.001	<0.01	<0.01	<2	0.003	0.002	0.34	4.41	0.01	0.007	<0.001	0.002	<0.01	12.42	0.029	<0.001
66264	Drill Core	2.30	0.08	<5	<0.001	0.002	0.01	<0.01	2	0.004	0.001	1.73	23.11	0.15	0.003	<0.001	0.002	<0.01	3.01	0.020	<0.001
66265	Drill Core	2.91	<0.01	<5	<0.001	0.002	<0.01	<0.01	<2	0.002	<0.001	0.90	4.35	<0.01	0.010	<0.001	0.001	<0.01	14.84	0.020	<0.001



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Project: 224
Report Date: October 30, 2009

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN09004633.1

	Method	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
	Analyte	Mg	Al	Na	K	W	Hg	S	SG
	Unit	%	%	%	%	%	%	%	
	MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
66256	Drill Core	8.66	0.12	<0.01	0.06	<0.001	<0.001	0.78	N.A.
66257	Drill Core	7.82	0.17	<0.01	0.09	<0.001	<0.001	1.83	N.A.
66258	Drill Core	8.53	0.17	<0.01	0.09	<0.001	<0.001	0.75	N.A.
66259	Drill Core	9.22	0.15	<0.01	0.08	<0.001	<0.001	0.61	N.A.
66260	Rock Pulp	0.92	2.04	0.07	0.17	<0.001	<0.001	<0.05	N.A.
66261	Drill Core	8.74	0.12	<0.01	0.06	<0.001	<0.001	1.02	2.78
66262	Drill Core	3.92	0.11	<0.01	0.08	<0.001	<0.001	20.98	3.44
66263	Drill Core	6.88	0.19	<0.01	0.12	<0.001	<0.001	3.21	2.88
66264	Drill Core	3.89	0.16	<0.01	0.12	<0.001	<0.001	22.94	N.A.
66265	Drill Core	8.21	0.12	<0.01	0.07	<0.001	<0.001	1.30	N.A.



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Project: 224

Report Date: October 30, 2009

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN09004633.1

	Method Analyte Unit MDL	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.001
Reference Materials																					
STD AGPROOF	Standard		<0.01	95																	
STD AGPROOF	Standard		<0.01	100																	
STD CDN-ME-6	Standard		0.28	102																	
STD CDN-ME-6	Standard		0.28	99																	
STD R4A	Standard				0.061	0.499	1.46	3.21	85	0.334	0.039	0.06	22.83	0.02	0.004	0.018	0.014	<0.01	0.94	0.042	0.012
STD R4A	Standard				0.063	0.508	1.52	3.29	86	0.353	0.040	0.06	23.33	0.02	0.004	0.018	0.015	<0.01	0.97	0.042	0.013
STD R4A	Standard				0.062	0.506	1.50	3.28	87	0.356	0.040	0.06	23.54	0.02	0.004	0.017	0.013	<0.01	0.96	0.043	0.012
STD R4A	Standard				0.062	0.507	1.50	3.29	88	0.358	0.040	0.06	23.64	0.02	0.004	0.018	0.013	<0.01	0.97	0.043	0.012
STD R4A Expected					0.062	0.502	1.5	3.31	86	0.334	0.04	0.06	23.38	0.023	0.004	0.017	0.0135	0.0024	0.94	0.042	0.012
STD CDN-ME-6 Expected			0.27	101																	
STD AGPROOF Expected			0	100																	
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank				<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
BLK	Blank		<0.01	<5																	
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.96	<0.01	0.008	<0.001	<0.001	<0.01	0.62	0.078	<0.001
G1	Prep Blank	<0.01	<0.01	<5	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.03	<0.01	0.007	<0.001	<0.001	<0.01	0.54	0.079	<0.001



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Project:

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Report Date:

October 30, 2009

Page:

1 of 1

Part 2

QUALITY CONTROL REPORT

VAN09004633.1

Method	7AR	7AR	7AR	7AR	7AR	7AR	7AR	G8SG
Analyte	Mg	Al	Na	K	W	Hg	S	SG
Unit	%	%	%	%	%	%	%	
MDL	0.01	0.01	0.01	0.01	0.001	0.001	0.05	0
Reference Materials								
STD AGPROOF	Standard							
STD AGPROOF	Standard							
STD CDN-ME-6	Standard							
STD CDN-ME-6	Standard							
STD R4A	Standard	0.84	1.25	0.06	0.50	<0.001	<0.001	15.96
STD R4A	Standard	0.86	1.28	0.07	0.51	<0.001	<0.001	16.25
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.06
STD R4A	Standard	0.86	1.29	0.07	0.51	<0.001	<0.001	16.12
STD R4A Expected		0.83	1.25	0.07	0.51	0.0011	0.001	16.7
STD CDN-ME-6 Expected								
STD AGPROOF Expected								
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.05
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
G1	Prep Blank	0.54	1.17	0.18	0.60	<0.001	<0.001	<0.05
G1	Prep Blank	0.52	0.98	0.11	0.53	<0.001	<0.001	<0.05

APPENDIX 6

AeroQuest Geophysical Report

Report on a Helicopter-Borne AeroTEM System Electromagnetic & Magnetic Survey



Aeroquest Job # 10014

Ptarmigan Block Area (East New Discovery)

Radium, B.C., Canada
NTS 082K08, K09

For

Rupestris Mines Inc.

by



7687 Bath Road,
Mississauga, ON, L4T 3T1
Tel: (905) 672-9129
Fax: (905) 672-7083
www.aeroquest.ca

Report date: January 2010

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TABLE OF CONTENTS

TABLE OF CONTENTS	i
LIST OF FIGURES.....	2
LIST OF MAPS (1:10,000)	2
1. INTRODUCTION.....	3
2. SURVEY AREA.....	3
3. SURVEY SPECIFICATIONS AND PROCEDURES	4
3.1. Navigation	5
3.2. System Drift.....	5
3.3. Field QA/QC Procedures	5
4. AIRCRAFT AND EQUIPMENT	6
4.1. Aircraft	6
4.2. Magnetometer	6
4.3. Electromagnetic System	6
4.4. AeroDAS Acquisition System	8
4.5. Magnetometer Base Station	9
4.6. Radar Altimeter	9
4.7. Video Tracking and Recording System.....	9
4.8. GPS Navigation System	10
4.9. Digital Acquisition System.....	10
5. PERSONNEL	10
6. DELIVERABLES	10
6.1. Hardcopy Deliverables	10
6.2. Digital Deliverables.....	11
6.2.1. <i>Final Database of Survey Data (.GDB)</i>	11
6.2.2. <i>Geosoft Grid files (.GRD)</i>	11
6.2.3. <i>Digital Versions of Final Maps (.MAP, .PDF)</i>	11
6.2.4. <i>Google Earth Files (.kmz)</i>	11
6.2.5. <i>Free Viewing Software (.EXE)</i>	11
6.2.6. <i>Digital Copy of this Document (.PDF)</i>	11
7. DATA PROCESSING AND PRESENTATION	12
7.1. Base Map	12
7.2. Flight Path & Terrain Clearance	12
7.3. Electromagnetic Data	12
7.4. Magnetic Data.....	13
8. General Comments	13
8.1. Magnetic Response	13
8.2. EM Anomalies	14
APPENDIX 1: Survey Boundaries	17
APPENDIX 2: Description of Database Fields	18

APPENDIX 3: AeroTEM Anomaly Listing.....	19
APPENDIX 4: AeroTEM Design Considerations	23
APPENDIX 5: AeroTEM Instrumentation Specification Sheet	29

LIST OF FIGURES

Figure 1. Project Area	3
Figure 2. Ptarmigan Block Area with flight path, overlain on shaded topography	4
Figure 3. Helicopter C-GLOV used in the survey	6
Figure 4. The magnetometer bird (A) and AeroTEM III EM bird (B).....	7
Figure 5. Schematic of Transmitter and Receiver waveforms.....	7
Figure 6. AeroTEM III Instrument Rack.....	8
Figure 7. Digital video camera typical mounting location.	9
Figure 8. AeroTEM response to a ‘thin’ vertical conductor.....	14
Figure 9. AeroTEM response for a ‘thick’ vertical conductor.....	15
Figure 10. AeroTEM response over a ‘thin’ dipping conductor.....	15

LIST OF MAPS (1:10,000)

- TMI – Coloured Total Magnetic Intensity (TMI) with line contours and EM anomaly symbols.
- ZOFF1– AeroTEM Z1 Off-time with line contours, and EM anomaly symbols.
- DTM – Digital Terrain Model (DTM) with line contours, and EM anomaly symbols.
- CVG – Calculated Vertical Gradient (CVG) with line contours, and EM anomaly symbols.

1. INTRODUCTION

This report describes a helicopter-borne geophysical survey carried out on behalf of Rupestris Mines Inc. for Ptarmigan Block Area (East New Discovery), near Radium, B.C.

The principal geophysical sensor is Aeroquest's exclusive AeroTEM III (Mike) time domain helicopter electromagnetic system which is employed in conjunction with a high-sensitivity caesium vapour magnetometer. Ancillary equipment includes a real-time differential GPS navigation system, radar altimeter, video recorder, and a base station magnetometer. Full-waveform streaming EM data is recorded at 36,000 samples per second. The streaming data comprise the transmitted waveform, and the X component and Z component of the resultant field at the receivers.

The total survey coverage is 144 line-km, of which 135 line-km fell within the defined project area (Appendix 1). The survey was made up of two blocks, flown at 50 metre line spacing and at 90°/270° flight direction (Table 1). The survey flying described in this report took place on December 14th, 2009. This report describes the survey logistics, the data processing, presentation, and provides the specifications of the survey.

2. SURVEY AREA

The Project area (Figure 1) is located in southern B.C. The survey consisted of one block, Ptarmigan Block Area (7.6 km²), and are located approximately 25 kms southwest of Radium Hot Springs, B.C. The base of survey operations was at Radium, B.C.

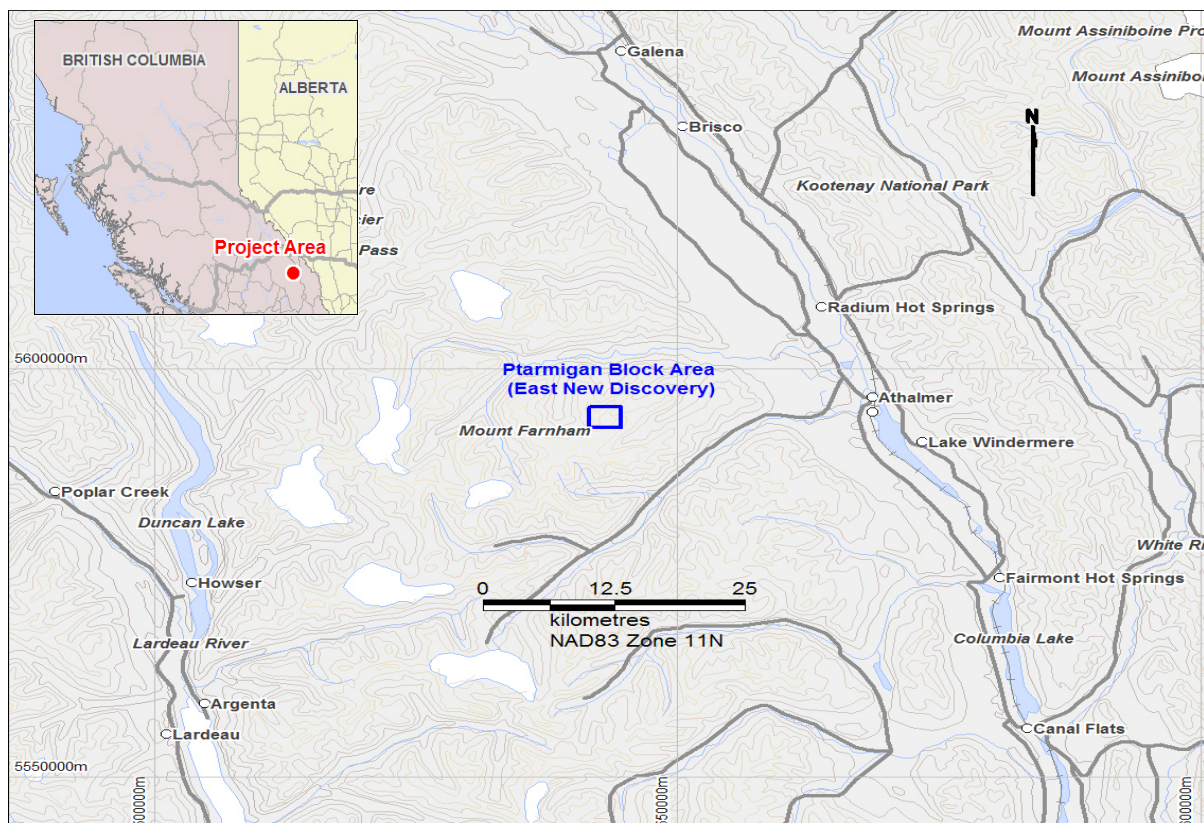


Figure 1. Project Area

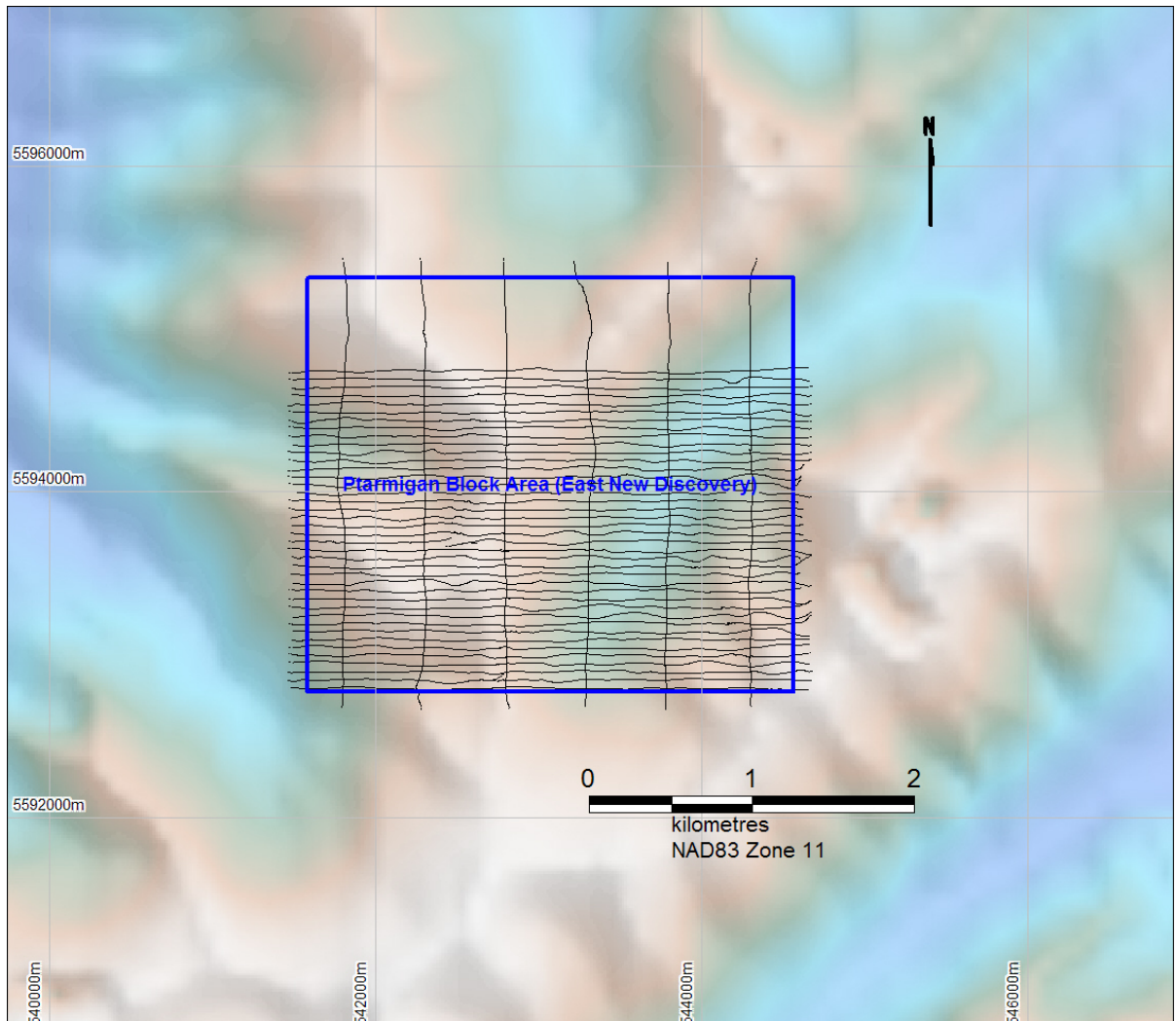


Figure 2. Ptarmigan Block Area with flight path, overlain on shaded topography

3. SURVEY SPECIFICATIONS AND PROCEDURES

The survey specifications are summarised in the following table:

Project Name	Line/Tie Spacing (metres)	Line Direction	Survey Coverage (line-km)	Date flown
Ptarmigan Block Area(East New Discovery)	50/500	90°/270°	144	December 14 th , 2009

Table 1. Survey specifications summary

The survey coverage was calculated by summing the along-line distance of the survey lines and control (tie) lines as presented in the final Geosoft database. The survey was flown with a line spacing of 50 metres. The control (tie) lines were flown perpendicular to the survey lines with 500 metre, tie line spacing.

The nominal EM bird terrain clearance is 30 metres, but can be higher in more rugged terrain due to safety considerations and the capabilities of the aircraft. The magnetometer sensor is mounted in a smaller bird connected to the tow rope 33 metres above the EM bird and 21 metres below the helicopter (Figure 4). Nominal survey speed over relatively flat terrain is 75 km/hr and is generally lower in rougher terrain. Scan rates for ancillary data acquisition is 0.1 second for the magnetometer and altimeter, and 0.2 second for the GPS determined position. The EM data is acquired as a data stream at a sampling rate of 36,000 samples per second and is processed to generate final data at 10 samples per second. The 10 samples per second translate to a geophysical reading about every 1.5 to 2.5 metres along the flight path.

3.1. NAVIGATION

Navigation is carried out using a GPS receiver, an AGNAV2 system for navigation control, and an RMS DGR-33 data acquisition system which records the GPS coordinates. The x-y-z position of the aircraft, as reported by the GPS, is recorded at 0.2 second intervals. The system has a published accuracy of less than 3 metres. A recent static ground test of the Mid-Tech WAAS GPS yielded a standard deviation in x and y of less than 0.6 metres and for z less than 1.5 metres over a two-hour period.

3.2. SYSTEM DRIFT

Unlike frequency domain electromagnetic systems, the AeroTEM III system has negligible drift due to thermal expansion. The operator is responsible for ensuring the instrument is properly warmed up prior to departure and that the instruments are operated properly throughout the flight. The operator maintains a detailed flight log during the survey noting the times of the flight and any unusual geophysical or topographic features. Each flight included at least two high elevation 'background' checks. During the high elevation checks, an internal 5 second wide calibration pulse in all EM channels was generated in order to ensure that the gain of the system remained constant and within specifications.

3.3. FIELD QA/QC PROCEDURES

On return of the pilot and operator to the base, usually after each flight, the AeroDAS streaming EM data and the RMS data are carried on removable hard drives and Flashcards, respectively and transferred to the data processing work station. At the end of each day, the base station magnetometer data on FlashCard is retrieved from the base station unit.

Data verification and quality control includes a comparison of the acquired GPS data with the flight plan; verification and conversion of the RMS data to an ASCII format XYZ data file; verification of the base station magnetometer data and conversion to ASCII format XYZ data; and loading, processing and conversion of the streaming EM data from the removable hard drive. All data is then merged to an ASCII XYZ format file which is then imported to an Oasis database for further QA/QC and for the production of preliminary EM, magnetic contour, and flight path maps.

Survey lines which show excessive deviation from the intended flight path are re-flown. Any line or portion of a line on which the data quality did not meet the contract specification was noted and reflight.

4. AIRCRAFT AND EQUIPMENT

4.1. AIRCRAFT

An Aerospatiale SA 315B helicopter - registration C-GLOV was used as survey platform. The helicopter was owned and operated by Hi-Wood Helicopters Ltd. Installation of the geophysical and ancillary equipment was carried out by Aeroquest Limited personnel in conjunction with a licensed aircraft. The survey aircraft was flown at a nominal terrain clearance of 275 ft (83metres).



Figure 3. Helicopter C-GLOV used in the survey

4.2. MAGNETOMETER

The AeroTEM III airborne survey system employs the Geometrics G-823A caesium vapour magnetometer sensor installed in a two metre towed bird airfoil attached to the main tow line, 21 metres below the helicopter (Figure 4). The sensitivity of the magnetometer is 0.001 NanoTesla at a 0.1 second sampling rate. The nominal ground clearance of the magnetometer bird is 51 metres (170 ft.). The magnetic data is recorded at 10 Hz by the ADAS.

4.3. ELECTROMAGNETIC SYSTEM

The electromagnetic system is an Aeroquest AeroTEM III time domain towed-bird system (Figure 4). The current AeroTEM III transmitter dipole moment is 183 kNIA. The AeroTEM bird is towed 53 metres (175 ft) below the helicopter. More technical details of the system may be found in Appendix 5.

The wave-form is triangular with a symmetric transmitter on-time pulse of 1.10 ms and a base frequency of 90 Hz (Figure 5). The current alternates polarity every on-time pulse. During every Tx on-off cycle (180 per second), 200 contiguous channels of raw X and Z

component (and a transmitter current monitor, itx) of the received waveform are measured. Each channel width is 27.78 microseconds starting at the beginning of the transmitter pulse. This 200 channel data is referred to as the raw streaming data. The AeroTEM system has one separate EM data recording stream, the newly designed AeroDAS system which records the full waveform (Figure 6).

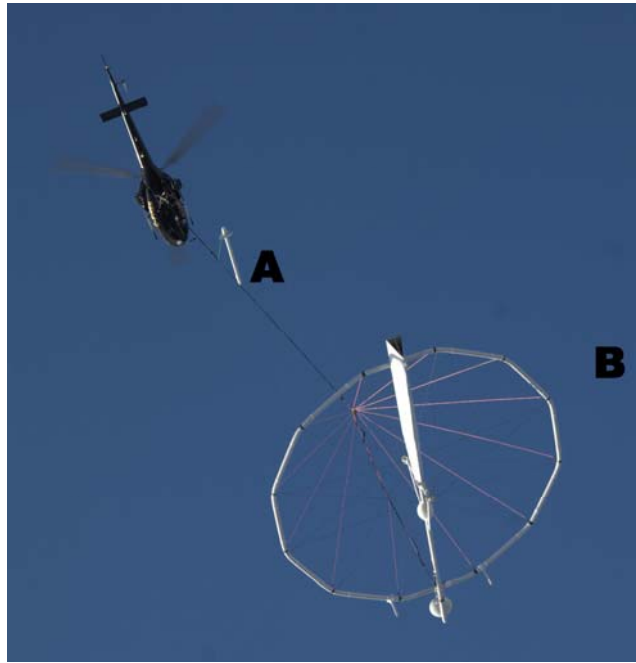


Figure 4. The magnetometer bird (A) and AeroTEM III EM bird (B)

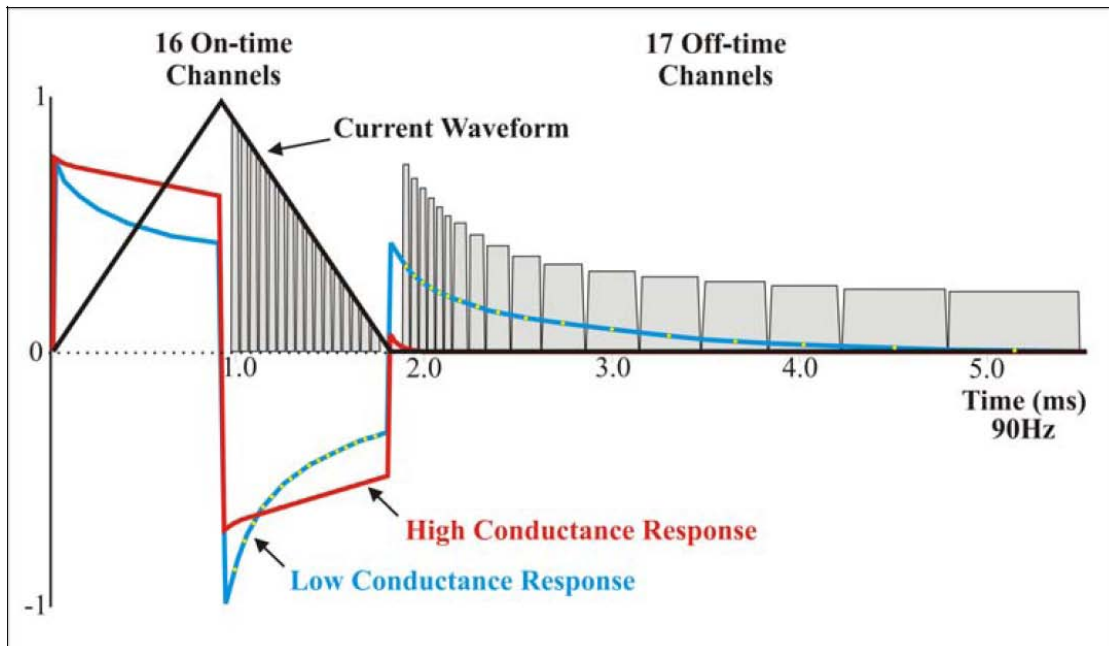


Figure 5. Schematic of Transmitter and Receiver waveforms

4.4. AERODAS ACQUISITION SYSTEM

The 200 channels of raw streaming data are recorded by the AeroDAS acquisition system (Figure 6) onto a removable hard drive. In addition the magnetic, altimeter and position data are also recorded in it, six channels of real time processed off-time EM decay in the Z direction and one in the X direction can be viewed on a color monitor on board, these channels are derived by a binning, stacking and filtering procedure on the raw streaming data.

The primary use of the displayed EM data (Z1 to Z6, X1), magnetic and altimeter is to provide for real-time QA/QC on board.

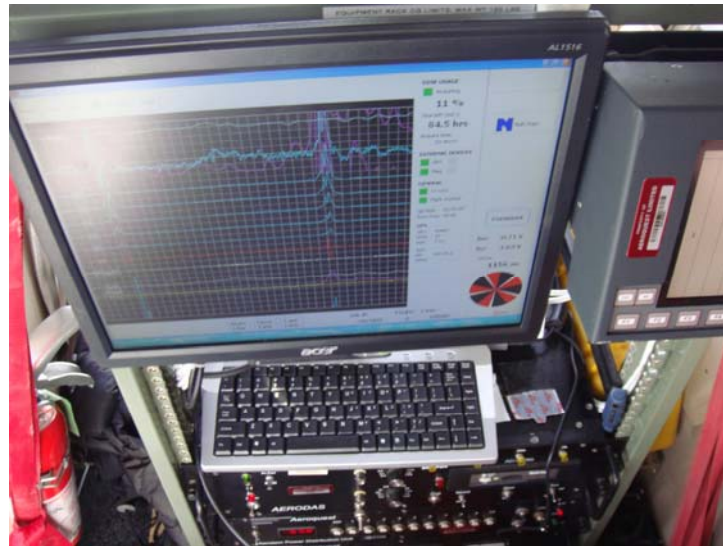


Figure 6. AeroTEM III Instrument Rack

The streaming data are processed post-survey to yield 33 stacked and binned on-time and off-time channels at a 10 Hz sample rate. The timing of the final processed EM channels is described in the following table:

Average TxOn -0.0651 us
Average TxSwitch 887.6361 us
Average TxOff 1712.4227 us

Channel	Sample	Range	Time Width (us)	Time Center (us)	Time After TxOn (us)
On1	5	5 - 5	27.8	125.0	125.1
On2	6	6 - 6	27.8	152.8	152.8
On3	7	7 - 7	27.8	180.6	180.6
On4	8	8 - 8	27.8	208.3	208.4
On5	9	9 - 9	27.8	236.1	236.2
On6	10	10 - 10	27.8	263.9	264.0
On7	11	11 - 11	27.8	291.7	291.7
On8	12	12 - 12	27.8	319.4	319.5
On9	13	13 - 13	27.8	347.2	347.3
On10	14	14 - 14	27.8	375.0	375.1
On11	15	15 - 15	27.8	402.8	402.8
On12	16	16 - 16	27.8	430.6	430.6
On13	17	17 - 17	27.8	458.3	458.4
On14	18	18 - 18	27.8	486.1	486.2
On15	19	19 - 19	27.8	513.9	514.0
On16	20	20 - 20	27.8	541.7	541.7

Channel	Sample	Range	Time Width (us)	Time Center (us)	Time After TxOff (us)
Off0	65	65 - 65	27.8	1791.7	79.2
Off1	66	66 - 66	27.8	1819.4	107.0
Off2	67	67 - 67	27.8	1847.2	134.8
Off3	68	68 - 68	27.8	1875.0	162.6

Off4	69 - 69	27.8	1902.8	190.4
Off5	70 - 70	27.8	1930.6	218.1
Off6	71 - 73	83.3	1986.1	273.7
Off7	74 - 76	83.3	2069.4	357.0
Off8	77 - 79	83.3	2152.8	440.4
Off9	80 - 82	83.3	2236.1	523.7
Off10	83 - 87	138.9	2347.2	634.8
Off11	88 - 92	138.9	2486.1	773.7
Off12	93 - 99	194.4	2652.8	940.4
Off13	100 - 109	277.8	2888.9	1176.5
Off14	110 - 124	416.7	3236.1	1523.7
Off15	125 - 148	666.7	3777.8	2065.4
Off16	149 - 186	1055.6	4638.9	2926.5

4.5. MAGNETOMETER BASE STATION

The base magnetometer was a Geometrics G-859 caesium vapour magnetometer system with integrated GPS. Data logging and UTC time synchronisation was carried out within the magnetometer, with the GPS providing the timing signal. The data logging was configured to measure at 1.0 second intervals. Digital recording resolution was 0.001 nT. The sensor was placed on a tripod in an area of low magnetic gradient and free of cultural noise sources. A continuously updated display of the base station values was available for viewing and regularly monitored to ensure acceptable data quality and diurnal variation.

4.6. RADAR ALTIMETER

A Terra TRA 3500/TRI-30 radar altimeter is used to record terrain clearance. The antenna was mounted on the outside of the helicopter beneath the cockpit. Therefore, the recorded data reflect the height of the helicopter above the ground. The Terra altimeter has an altitude accuracy of +/- 1.5 metres.

4.7. VIDEO TRACKING AND RECORDING SYSTEM

A high resolution digital colour 8 mm video camera is used to record the helicopter ground flight path along the survey lines. The video is digitally annotated with GPS position and time and can be used to verify ground positioning information and cultural causes of anomalous geophysical responses.



Figure 7. Digital video camera typical mounting location.

4.8. GPS NAVIGATION SYSTEM

The navigation system consists of an Ag-Nav Incorporated AG-NAV2 GPS navigation system comprising a PC-based acquisition system, navigation software, a deviation indicator in front of the aircraft pilot to direct the flight, a full screen display with controls in front of the operator, a Mid-Tech RX400p WAAS-enabled GPS receiver mounted on the instrument rack and an antenna mounted on the magnetometer bird. WAAS (Wide Area Augmentation System) consists of approximately 25 ground reference stations positioned across the United States that monitor GPS satellite data. Two master stations located on the east and west coasts collect data from the reference stations and create a GPS correction message. This correction accounts for GPS satellite orbit and clock drift plus signal delays caused by the atmosphere and ionosphere. The corrected differential message is then broadcast through one of two geostationary satellites, or satellites with a fixed position over the equator. The corrected position has a published accuracy of less than 3 metres.

Survey co-ordinates are set up prior to the survey and the information is fed into the airborne navigation system. The co-ordinate system employed in the survey design was WGS84 [World] using the UTM zone 11N projection. The real-time differentially corrected GPS positional data was recorded by the AeroDAS system in geodetic coordinates (latitude and longitude using WGS84) at 0.2 s intervals.

4.9. DIGITAL ACQUISITION SYSTEM

The AeroTEM received waveform sampled during on and off-time at 200 channels per decay, 180 times per second, was logged by the proprietary AeroDAS data acquisition system. The streaming data was recorded on a removable hard-drive and was later backed-up onto DVD-ROM from the field-processing computer.

5. PERSONNEL

The following Aeroquest personnel were involved in the project:

- Operations Project Manager: Troy Will
- Field Data Processor: Thomas Wade
- Field Operator: Viktor Shevchenko
- Data Interpretation and Reporting: Doug Garrie, and Liz Johnson

The survey pilot, Joel Reavie, was employed directly by the helicopter operator – HiWood Helicopters Ltd.

6. DELIVERABLES

6.1. HARDCOPY DELIVERABLES

The report includes a set of one 1:10,000 maps and the following three geophysical data products are delivered:

- TMI – Coloured Total Magnetic Intensity (TMI) with line contours and EM anomaly symbols.
- ZOFF1– AeroTEM Z1 Off-time with line contours, and EM anomaly symbols.
- DTM – Digital Terrain Model (DTM) with line contours, and EM anomaly symbols.

- CVG – Calculated Vertical Gradient (CVG) with line contours, and EM anomaly symbols.

The coordinate/projection system for the maps is NAD83 – UTM Zone 11N. For reference, the latitude and longitude in WGS84 are also noted on the maps.

All the maps show flight path trace, skeletal topography, and conductor picks represented by an anomaly symbol classified according to calculated off-time conductance. The anomaly symbol is accompanied by postings denoting the calculated off-time conductance, a thick or thin classification and an anomaly identifier label. The anomaly symbol legend and survey specifications are displayed on the left margin of the maps.

6.2. DIGITAL DELIVERABLES

6.2.1. Final Database of Survey Data (.GDB)

The geophysical profile data is archived digitally in a Geosoft GDB binary format database. A description of the contents of the individual channels in the database can be found in Appendix 2. A copy of this digital data is archived at the Aeroquest head office in Mississauga.

6.2.2. Geosoft Grid files (.GRD)

Levelled Grid products used to generate the geophysical map images. All grids have 10 m cell size.

- Total Magnetic Intensity from Mag sensor on the tow cable (mag_10-014.grd)
- AeroTEM Z Offtime Channel 1 (zoff1_10-014.grd)
- Calculated Vertical Gradient (cvg_10-014.grd)
- Digital Terrain Model (dtm_10-014.grd)
- AeroTEM X Offtime Channel 1 (xoff1_ff_f.grd)

6.2.3. Digital Versions of Final Maps (.MAP, .PDF)

Map files in Geosoft .map and Adobe PDF format.

6.2.4. Google Earth Files (.kmz)

Flight navigation lines, EM Anomalies and geophysical grids in Google earth kmz format. Double click to view in Google Earth.

6.2.5. Free Viewing Software (.EXE)

- Geosoft Oasis Montaj Viewing Software
- Adobe Acrobat Reader
- Google Earth Viewer

6.2.6. Digital Copy of this Document (.PDF)

Adobe PDF format of this document.

7. DATA PROCESSING AND PRESENTATION

All in-field and post-field data processing was carried out using Aeroquest proprietary data processing software and Geosoft Oasis Montaj software. Maps were generated using 36-inch and 42-inch wide Hewlett Packard ink-jet plotters.

7.1. BASE MAP

The geophysical maps accompanying this report are based on positioning in the NAD83 datum. The survey geodetic GPS positions have been projected using the Universal Transverse Mercator projection in Zone 11 North. A summary of the map datum and projection specifications is given following:

- Ellipse: GRS 1980
- Ellipse major axis: 6378137m eccentricity: 0.081819191
- Datum: North American 1983 - Canada Mean
- Datum Shifts (x,y,z) : 0, 0, 0 metres
- Map Projection: Universal Transverse Mercator Zone 11 (Central Meridian 117°W)
- Central Scale Factor: 0.9996
- False Easting, Northing: 500,000m, 0m

For reference, the latitude and longitude in WGS84 are also noted on the maps.

The background vector topography was sourced from Natural Resources Canada 1:50000 National Topographic Data Base data and the background shading were derived from NASA Shuttle Radar Topography Mission (SRTM) 90 metre resolution DEM data.

7.2. FLIGHT PATH & TERRAIN CLEARANCE

The position of the survey helicopter was directed by use of the Global Positioning System (GPS). Positions were updated five times per second (5 Hz) and expressed as WGS84 latitude and longitude calculated from the raw pseudo range derived from the C/A code signal. The instantaneous GPS flight path, after conversion to UTM co-ordinates, is drawn using linear interpolation between the x/y positions. The terrain clearance was maintained with reference to the radar altimeter. The raw Digital Terrain Model (DTM) was derived by taking the GPS survey elevation and subtracting the radar altimeter terrain clearance values. The calculated topography elevation values are relative and are not tied in to surveyed geodetic heights.

Each flight included at least two high elevation 'background' checks. These high elevation checks are to ensure that the gain of the system remained constant and within specifications.

7.3. ELECTROMAGNETIC DATA

The raw streaming data, sampled at a rate of 36,000 Hz (200 channels, 180 times per second) was reprocessed using a proprietary software algorithm developed and owned by Aeroquest Limited. Processing involves the compensation of the X and Z component data for the primary field waveform. Coefficients for this compensation for the system transient are determined and applied to the stream data. The stream data are then pre-filtered, stacked, binned to the 33 on and off-time channels and checked for the effectiveness of the compensation and stacking processes. The stacked data is then filtered, levelled and split up into the individual line segments. Further base level adjustments may be carried out at this

stage. The filtering of the stacked data is designed to remove or minimize high frequency noise that cannot be sourced from the geology.

The final field processing step was to merge the processed EM data with the other data sets into a Geosoft GDB file. The TS “time stamp” and EM Fiducial are used to synchronize the two datasets. The processed channels are merged into ‘array format; channels in the final Geosoft database as Zon, Zoff, Xon, and Xoff.

Apparent bedrock EM anomalies were interpreted with the aid of an auto-pick from positive peaks and troughs in the off-time Z channel responses correlated with X channel responses. The auto-picked anomalies were reviewed and edited by a geophysicist on a line by line basis to discriminate between thin and thick conductor types. Anomaly picks locations were migrated and removed as required. This process ensures the optimal representation of the conductor centres on the maps.

At each conductor pick, estimates of the off-time conductance have been generated based on a horizontal plate source model for those data points along the line where the response amplitude is sufficient to yield an acceptable estimate. Some of the EM anomaly picks do not display a Tau value; this is due to the inability to properly define the decay of the conductor usually because of low signal amplitudes. Each conductor pick was then classified according to a set of seven ranges of calculated off-time conductance values. For high conductance sources, the on-time conductance values may be used, since it provides a more accurate measure of high-conductance sources. Each symbol is also given an identification letter label, unique to each flight line. Conductor picks that did not yield an acceptable estimate of off-time conductance due to a low amplitude response were classified as a low conductance source. Please refer to the anomaly symbol legend located in the margin of the maps.

7.4. MAGNETIC DATA

Prior to any levelling the magnetic data was subjected to a lag correction of -0.1 seconds and a spike removal filter. The filtered aeromagnetic data were then corrected for diurnal variations using the magnetic base station and the intersections of the tie lines. No corrections for the regional reference field (IGRF) were applied. The corrected profile data were interpolated on to a grid using a bi-directional grid technique with a grid cell size of 10 metres. The final levelled grid provided the basis for threading the presented contours which have a minimum contour interval of 1 nT.

8. GENERAL COMMENTS

The survey was successful in mapping the magnetic and conductive properties of the geology throughout the survey area. Below is a brief interpretation of the results. For a detailed interpretation please contact Aeroquest Limited.

8.1. MAGNETIC RESPONSE

The magnetic data provide a high resolution map of the distribution of the magnetic mineral content of the survey area. This data can be used to interpret the location of geological contacts and other structural features such as faults and zones of magnetic alteration. The sources for anomalous magnetic responses are generally thought to be predominantly magnetite because of the relative abundance and strength of response (high magnetic susceptibility) of magnetite over other magnetic minerals such as pyrrhotite.

8.2. EM ANOMALIES

The EM anomalies on the maps are classified by conductance (as described earlier in the report) and also by the thickness of the source. A thin, vertically orientated source produces a double peak anomaly in the z-component response and a positive to negative crossover in the x-component response (Figure 8). For a vertically orientated thick source (say, greater than 10 metres), the response is a single peak in the z-component response and a negative to positive crossover in the x-component response (Figure 9). Because of these differing responses, the AeroTEM system provides discrimination of thin and thick sources and this distinction is indicated on the EM anomaly symbols (N = thin and K = thick). Where multiple, closely spaced conductive sources occur, or where the source has a shallow dip, it can be difficult to uniquely determine the type (thick vs. thin) of the source (Figure 10). In these cases both possible source types may be indicated by picking both thick and thin response styles. For shallow dipping conductors the 'thin' pick will be located over the edge of the source, whereas the 'thick' pick will fall over the downdip 'heart' of the anomaly.

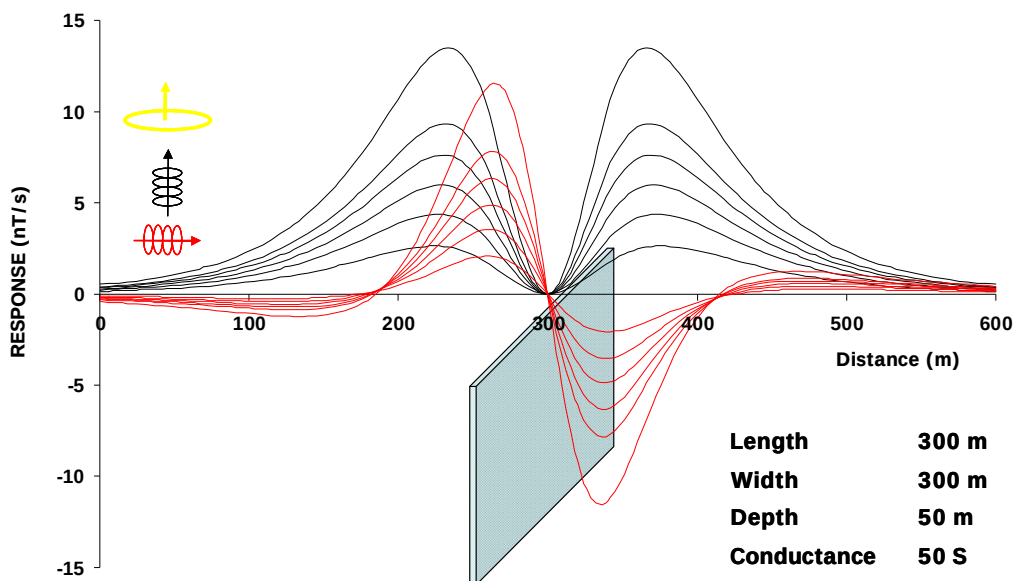


Figure 8. AeroTEM response to a 'thin' vertical conductor.

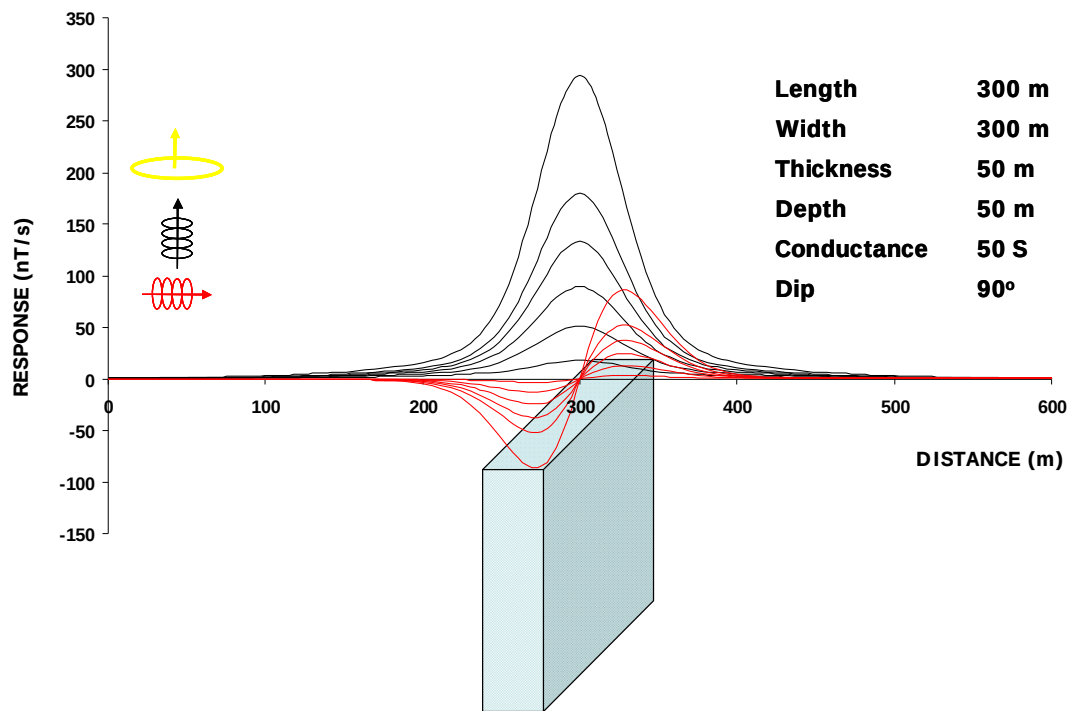


Figure 9. AeroTEM response for a 'thick' vertical conductor.

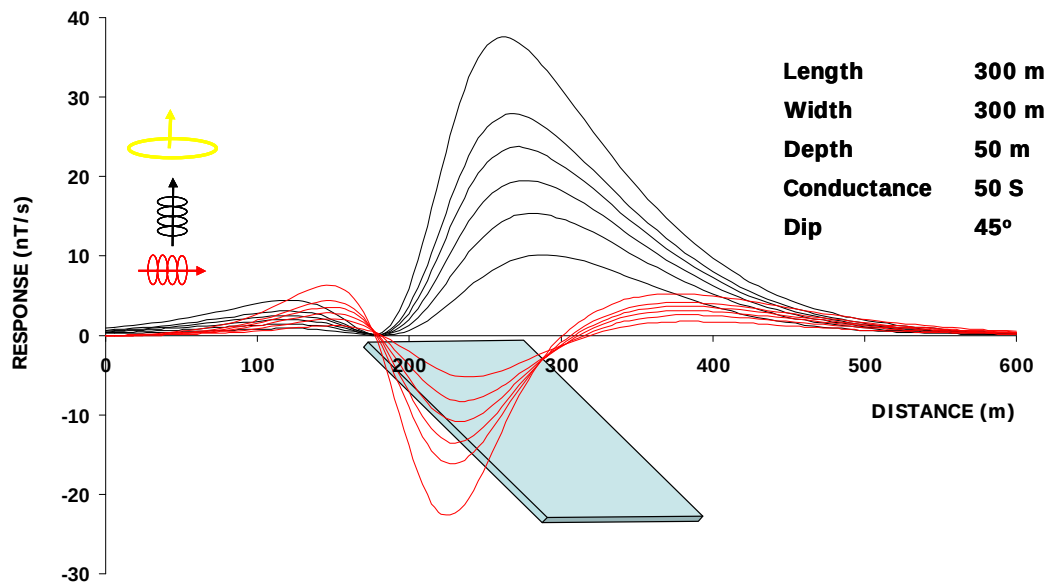


Figure 10. AeroTEM response over a 'thin' dipping conductor.

All cases should be considered when analyzing the interpreted picks and prioritizing for follow-up. Specific anomalous responses which remain as high priority should be subjected to numerical modeling prior to drill testing to determine the dip, depth and probable geometry of the source.

APPENDIX 1: SURVEY BOUNDARIES

The following table presents the block boundaries. All geophysical data presented in this report have been windowed to 100m outside of these boundaries. X and Y positions are in metres: NAD83 UTM Zone 11N.

Ptarmigan Block Area (East New Discovery):

X	Y
541586.14	5595315.91
544562.06	5595315.91
541586.14	5592775.60
544562.06	5592775.60

APPENDIX 2: DESCRIPTION OF DATABASE FIELDS

The GDB file is a Geosoft binary database. In the database, the Survey lines and Tie Lines are prefixed with an "L" for "Line" and "T" for "Tie".

COLUMN	UNITS	DESCRIPTOR
line		Line number
flight		Flight #
emfid		AERODAS Fiducial
utctime	hh:mm:ss.ss	UTC time
x	m	UTM Easting (NAD83, Zone 11)
y	m	UTM Northing (NAD83, Zone 11)
galt	m	GPS elevation of magnetometer bird
ralt	m	Helicopter radar altimeter (height above terrain)
bheight	m	Terrain clearance of EM bird
basemag	nT	Base station total magnetic intensity
magU	nT	Final levelled total magnetic intensity from upper magnetometer sensor (installed on the tail of the EM bird).
dtm	m	Digital Terrain Model
zon	nT/s	EM On-Time Z component Channels 1-16
zoff	nT/s	EM Off-Time Z component Channels 0-16
Xon	nT/s	EM On-Time X component Channels 1-16
Xoff	nT/s	EM Off-Time X component Channels 0-16
pwrline		powerline monitor data channel
Grade		Classification from 1-7 based on conductance of conductor pick
Anom_Labels		Letter label of conductor pick (Unique per flight line)
Off_Con	S	Off-time conductance at conductor pick
Off_Tau	μs	Off-time decay constant at conductor pick
Anom_ID		EM Anomaly response style (K= thick, N = thin)
Off_AllCon	S	Off-time conductance
Off_AllTau	μs	Off-time decay constant
TranOff	s	Transmitter turn off time
TranOn	s	Transmitter turn on time
TranPeak	A	Transmitter peak current
TranSwitch	s	Transmitter peak current time
Off_Pick		Anomaly pick channel

APPENDIX 3: AEROTEM ANOMALY LISTING

Ptarmigan Block Area (East New Discovery):

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10010	A	K	12.6	355.1	4	20:55:42	32.0	542124.1	5594438.9
10010	B	K	4.5	212.1	4	20:56:09	36.8	542353.0	5594435.3
10010	C	K	4.9	221.0	4	20:57:49	71.3	543065.2	5594433.5
10020	A	K	6.6	256.4	4	21:02:17	45.6	543185.4	5594395.0
10020	B	K	1.8	135.8	4	21:03:34	65.9	542407.8	5594378.3
10020	C	K	5.7	239.4	4	21:03:47	71.7	542158.5	5594397.5
10020	D	K	6.3	251.1	4	21:04:06	52.3	541787.6	5594395.1
10030	A	K	4.2	205.7	4	21:05:44	35.3	542075.2	5594345.8
10030	B	K	2.1	143.8	4	21:07:22	63.8	543006.0	5594335.4
10040	A	K	7.0	265.1	4	21:11:12	45.3	543703.3	5594284.3
10040	B	K	3.7	192.5	4	21:12:08	51.3	543191.3	5594294.7
10040	C	K	1.4	118.6	4	21:12:27	45.0	542975.9	5594292.0
10040	D	K	0.5	70.5	4	21:13:18	77.3	542465.7	5594294.3
10040	E	K	2.9	171.0	4	21:13:39	75.9	542145.3	5594294.4
10050	A	K	4.8	218.5	4	21:15:31	49.7	542139.7	5594251.2
10050	B	K	2.2	149.5	4	21:15:57	57.2	542435.9	5594234.4
10050	C	K	5.5	234.6	4	21:16:47	80.2	542942.1	5594243.9
10060	A	K	4.0	199.1	4	21:22:51	27.9	543247.3	5594199.5
10060	B	K	1.3	114.0	4	21:23:16	54.5	542953.6	5594199.2
10060	C	K	0.4	66.2	4	21:23:56	107.9	542459.2	5594194.6
10060	D	N	0.8	88.8	4	21:24:10	70.5	542301.4	5594193.5
10060	E	K	1.3	114.1	4	21:24:17	51.4	542162.4	5594186.7
10070	A	K	6.4	252.3	4	21:33:57	28.4	543653.1	5594129.3
10070	B	K	3.3	180.3	4	21:34:48	46.4	543176.3	5594150.1
10070	C	K	1.8	133.2	4	21:35:01	36.4	542977.4	5594146.4
10070	D	K	3.8	195.2	4	21:35:41	100.3	542495.3	5594144.6
10070	E	K	1.5	120.7	4	21:36:03	40.5	542180.6	5594140.2
10080	A	K	8.8	297.0	4	21:44:51	41.5	543608.5	5594096.6
10080	B	K	11.6	339.8	4	21:45:01	27.5	543491.3	5594095.7
10080	C	K	5.9	242.2	4	21:45:28	54.6	543215.9	5594096.0
10080	D	K	1.3	113.4	4	21:45:46	63.2	542948.6	5594085.0
10080	E	K	1.0	99.1	4	21:46:28	76.3	542457.7	5594093.1
10090	A	K	5.9	243.3	5	22:36:00	29.8	543662.3	5594043.6
10090	B	K	2.9	169.4	5	22:36:59	52.1	543214.3	5594046.9
10090	C	K	1.0	98.0	5	22:37:29	60.0	542960.6	5594040.4
10090	D	K	0.7	80.9	5	22:38:24	73.0	542473.0	5594048.7
10100	A	K	5.5	233.7	5	22:46:24	38.7	543601.6	5593985.0
10100	B	N	1.2	107.8	5	22:47:41	54.3	542831.4	5593985.4
10100	C	K	0.8	89.3	5	22:48:20	76.4	542479.0	5593988.5
10111	A	K	0.8	91.1	5	22:51:10	35.4	542469.1	5593951.1
10111	B	N	0.7	82.3	5	22:52:15	68.1	542832.5	5593933.6

Line	Anom	ID	Cond (S)	Tau (μs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10111	C	K	1.3	115.2	5	22:52:36	54.7	543196.4	5593943.7
10111	D	N	1.3	115.2	5	22:53:01	51.5	543631.7	5593942.7
10120	A	K	0.4	63.9	5	22:41:52	67.6	542769.4	5593888.6
10120	B	K	0.7	85.3	5	22:42:00	45.4	542913.8	5593889.0
10120	C	K	1.5	121.6	5	22:42:15	62.6	543207.2	5593891.6
10120	D	N	1.5	121.6	5	22:42:40	51.1	543648.5	5593890.9
10130	A	K	0.6	79.8	4	21:49:00	51.4	542256.6	5593835.3
10130	B	K	0.7	81.5	4	21:49:56	48.3	542809.9	5593837.8
10130	C	K	1.6	124.4	4	21:50:20	43.1	543266.8	5593845.5
10130	D	K	6.1	246.0	4	21:50:42	32.5	543639.1	5593837.5
10140	A	K	0.5	70.2	4	21:39:50	38.2	542187.7	5593783.9
10140	B	K	0.8	86.9	4	21:40:40	54.5	542782.9	5593796.1
10140	C	K	3.7	192.6	4	21:41:07	67.7	543239.9	5593787.6
10061	A	K	0.2	46.8	4	21:28:05	38.1	542237.1	5593733.7
10061	B	K	1.2	108.5	4	21:29:24	110.9	542820.0	5593745.7
10061	C	K	2.4	155.3	4	21:29:49	77.5	543212.3	5593761.1
10061	D	K	7.5	274.3	4	21:30:02	49.1	543389.2	5593736.9
10061	E	K	6.5	254.1	4	21:30:12	47.2	543571.1	5593757.5
10160	A	K	0.1	33.7	4	20:40:27	65.5	542278.1	5593690.3
10160	A	K	1.7	130.3	4	20:44:38	59.1	543310.2	5593693.3
10170	A	K	3.2	178.5	4	20:32:24	26.1	543430.5	5593635.4
10170	B	K	2.8	166.7	4	20:32:41	37.9	543353.2	5593643.2
10170	C	K	0.9	95.6	4	20:33:51	62.9	542862.7	5593642.1
10170	A	N	0.4	63.1	4	20:36:36	61.0	542438.8	5593647.0
10180	A	K	0.2	46.3	3	19:46:07	74.6	542295.5	5593588.2
10180	B	K	0.7	85.4	3	19:46:52	69.1	542897.9	5593599.7
10180	C	K	1.2	110.3	3	19:47:16	60.4	543317.5	5593607.4
10180	D	K	2.4	154.0	3	19:47:26	45.6	543477.7	5593592.3
10190	A	K	3.1	176.2	3	19:40:45	40.5	543540.4	5593540.3
10190	B	K	3.0	173.9	3	19:40:58	27.7	543378.8	5593545.8
10190	C	K	1.4	116.9	3	19:41:56	52.6	542911.1	5593542.3
10190	D	K	0.2	40.9	3	19:42:58	67.7	542376.5	5593548.4
10200	A	K	0.2	45.9	3	19:30:26	66.6	542382.4	5593483.2
10200	B	K	0.4	60.5	3	19:30:46	78.5	542716.5	5593490.3
10200	C	K	0.9	92.3	3	19:31:01	47.3	542935.4	5593495.0
10200	D	K	1.3	112.6	3	19:31:32	62.6	543417.0	5593505.4
10200	E	K	3.5	187.4	3	19:31:41	45.3	543579.4	5593495.8
10210	A	K	11.6	339.8	3	19:24:34	33.8	543521.7	5593435.2
10210	B	K	10.3	320.7	3	19:24:51	34.0	543293.1	5593453.4
10210	C	K	10.5	323.4	3	19:25:56	34.4	542779.8	5593441.7
10210	D	K	0.6	74.8	3	19:26:40	54.3	542437.5	5593436.7
10220	A	K	0.5	68.7	3	19:19:18	45.9	542713.2	5593401.0
10220	B	K	1.6	126.2	3	19:19:47	64.8	543132.8	5593389.4
10220	C	K	1.7	128.9	3	19:20:05	45.2	543444.6	5593400.9
10230	A	K	3.2	178.7	3	19:13:25	48.9	543401.1	5593335.7

Line	Anom	ID	Cond (S)	Tau (μs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10230	B	K	1.9	136.7	3	19:14:57	45.2	542758.0	5593344.0
10230	C	K	0.1	37.4	3	19:15:20	41.5	542434.6	5593340.4
10240	A	K	0.2	45.1	3	19:08:01	67.9	542409.3	5593287.3
10240	B	K	0.5	71.1	3	19:08:22	46.9	542739.8	5593297.6
10240	C	N	0.5	71.1	3	19:08:49	87.3	543123.2	5593279.0
10240	D	N	0.5	71.1	3	19:09:02	54.5	543340.9	5593307.4
10250	A	K	3.0	173.6	3	19:00:26	46.3	543379.3	5593227.3
10250	B	K	5.1	224.8	3	19:00:46	48.2	543142.1	5593236.4
10250	C	K	2.4	155.7	3	19:02:13	33.7	542721.9	5593237.2
10250	D	K	0.4	59.0	3	19:02:28	49.1	542435.0	5593235.2
10260	A	K	0.5	67.5	3	18:55:02	57.5	542357.8	5593185.2
10260	B	K	0.7	82.2	3	18:55:22	32.0	542733.2	5593183.7
10260	C	K	1.3	113.4	3	18:55:53	50.4	543102.0	5593185.0
10260	D	K	2.7	163.1	3	18:56:05	61.5	543355.7	5593202.9
10270	A	K	2.3	150.9	3	18:49:04	42.9	543346.3	5593136.6
10270	B	K	1.5	123.0	3	18:49:20	44.5	543141.8	5593151.7
10270	C	K	0.3	56.6	3	18:51:10	65.0	542420.9	5593145.0
10280	A	K	1.1	105.0	3	18:43:41	68.8	542399.0	5593087.3
10280	B	K	0.6	75.4	3	18:44:06	66.7	542794.2	5593084.9
10280	C	K	0.7	86.2	3	18:44:27	64.5	543071.2	5593081.3
10280	D	K	3.0	173.9	3	18:44:42	61.3	543392.4	5593100.2
10290	A	K	2.1	145.0	3	18:37:10	33.0	543169.7	5593041.4
10290	B	K	1.8	135.0	3	18:38:24	29.4	542813.3	5593048.6
10290	C	K	0.9	95.5	3	18:39:37	51.8	542422.8	5593043.4
10300	A	K	0.3	54.0	3	18:30:24	71.2	542416.1	5592994.0
10300	B	K	0.2	46.5	3	18:30:53	61.7	542764.4	5592981.0
10300	C	K	0.7	84.0	3	18:31:16	51.2	543134.8	5592998.8
10310	A	K	4.7	215.8	3	18:24:44	68.1	543233.6	5592941.3
10310	B	K	0.9	94.4	3	18:25:39	31.3	542827.6	5592946.9
10310	C	K	0.3	54.1	3	18:26:55	47.9	542446.7	5592937.3
10320	A	K	2.3	152.6	2	17:33:05	50.9	542047.0	5592895.5
10320	B	K	0.3	57.2	2	17:33:25	34.6	542456.9	5592897.6
10320	C	K	0.7	84.2	2	17:34:04	50.8	542796.2	5592893.1
10320	D	K	1.8	132.4	2	17:34:24	45.0	543152.1	5592898.8
20120	A	K	2.7	163.6	5	23:22:32	39.1	542013.8	5594741.8
20120	B	K	0.1	31.8	5	23:23:41	63.6	542874.0	5594749.7
20120	C	K	5.5	234.0	5	23:25:26	50.9	544600.2	5594762.5
20130	A	K	0.2	40.7	5	23:19:12	75.9	542875.4	5594698.3
20130	B	K	1.8	134.6	5	23:20:17	53.3	542060.4	5594696.5
20140	A	K	4.6	213.4	5	23:12:58	42.3	542074.2	5594650.8
20140	B	K	0.1	36.8	5	23:13:58	63.4	542795.0	5594644.5
20150	A	K	0.1	36.2	5	23:09:54	74.6	542867.7	5594601.0
20150	B	K	0.1	35.0	5	23:10:36	52.2	542373.4	5594584.8
20150	C	K	2.4	154.2	5	23:10:52	49.2	542087.2	5594584.4
20160	A	K	3.5	187.9	5	23:03:45	47.8	542005.3	5594548.7

Line	Anom	ID	Cond (S)	Tau (μs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
20160	B	K	3.6	190.1	5	23:05:13	84.8	543152.1	5594537.8
20170	A	K	7.9	281.2	5	23:00:02	41.1	543170.3	5594498.9
20170	B	K	0.6	75.8	5	23:01:17	77.1	542401.3	5594488.3
20170	C	K	3.6	190.4	5	23:01:49	64.3	541824.9	5594487.0
19010	A	K	4.1	203.5	2	17:10:43	44.6	541776.3	5594280.8
19010	B	K	3.4	184.2	2	17:12:00	53.9	541810.2	5594747.4
19020	A	K	0.4	59.7	2	17:05:10	48.5	542303.1	5593629.2
19020	B	K	0.5	73.4	2	17:05:54	42.6	542308.3	5593185.4
19030	A	K	1.7	132.1	2	16:58:59	58.0	542793.7	5593789.1
19030	B	K	0.5	71.7	2	17:00:07	65.3	542806.7	5594776.2
19040	A	K	3.3	181.9	2	16:55:37	61.1	543318.3	5594004.6
19050	A	K	4.6	213.7	2	16:49:06	45.0	543796.3	5594019.9
19060	A	K	6.3	251.0	2	16:43:19	67.9	544292.7	5594628.5

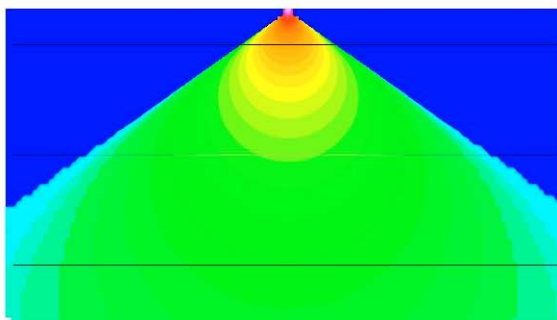
APPENDIX 4: AEROTEM DESIGN CONSIDERATIONS

Helicopter-borne EM systems offer an advantage that cannot be matched from a fixed-wing platform. The ability to fly at slower speed and collect data

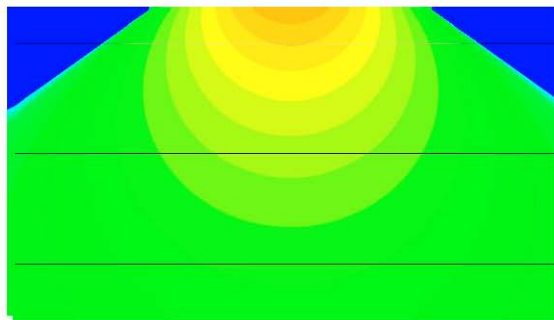
3a with high spatial resolution, and with great accuracy, means the helicopter EM systems provide more detail than any other EM configuration, airborne or ground-based. Spatial resolution is especially important in areas of complex geology and in the search for discrete conductors. With the advent of helicopter-borne high-moment time domain EM systems the fixed wing platforms are losing their *only* advantage – depth penetration.

Advantage 1 – Spatial Resolution

The AeroTEM system is specifically designed to have a small footprint. This is accomplished through the use of concentric transmitter-receiver coils and a relatively small diameter transmitter coil (5 m). The result is a highly focused exploration footprint, which allows for more accurate “mapping” of discrete conductors. Consider the transmitter primary field images shown in Figure 1, for AeroTEM versus a fixed-wing transmitter.



The footprint of AeroTEM at the earth's surface is roughly 50m on either side of transmitter



The footprint of a fixed-wing system is roughly 150 m on either side of the transmitter

Figure 1. A comparison of the footprint between AeroTEM and a fixed-wing system, highlights the greater resolution that is achievable with a transmitter located closer to the earth's surface. The AeroTEM footprint is one third that of a fixed-wing system and is symmetric, while the fixed-wing system has even lower spatial resolution along the flight line because of the separated transmitter and receiver configuration.

At first glance one may want to believe that a transmitter footprint that is distributed more evenly over a larger area is of benefit in mineral exploration. In fact, the opposite is true; by energizing a larger surface area, the ability to energize and detect discrete conductors is reduced. Consider, for example, a comparison between AeroTEM and a fixed-wing system over the Mesamax Deposit (1,450,000 tonnes of 2.1% Ni, 2.7% Cu, 5.2 g/t Pt/Pd). In a test survey over three flight lines spaced 100 m apart, AeroTEM detected the Deposit on all three flight lines. The fixed-wing system detected the Deposit only on two flight lines. In exploration programs that seek to expand the flight line spacing in an effort to reduce the cost of the airborne survey, discrete conductors such as the Mesamax Deposit can go undetected. The argument often put forward in favour of using fixed-wing systems is that because of their larger footprint, the flight line spacing can indeed be widened. Many fixed-wing surveys are flown at 200 m or 400 m. Much of the survey work performed by Aeroquest has been to survey in areas that were previously flown at these wider line spacings. One of the reasons for AeroTEM's impressive discovery record has been the strategy of flying closely spaced lines and finding all the discrete near-surface conductors. These higher resolution surveys are being flown within existing mining camps, areas that improve the chances of discovery.

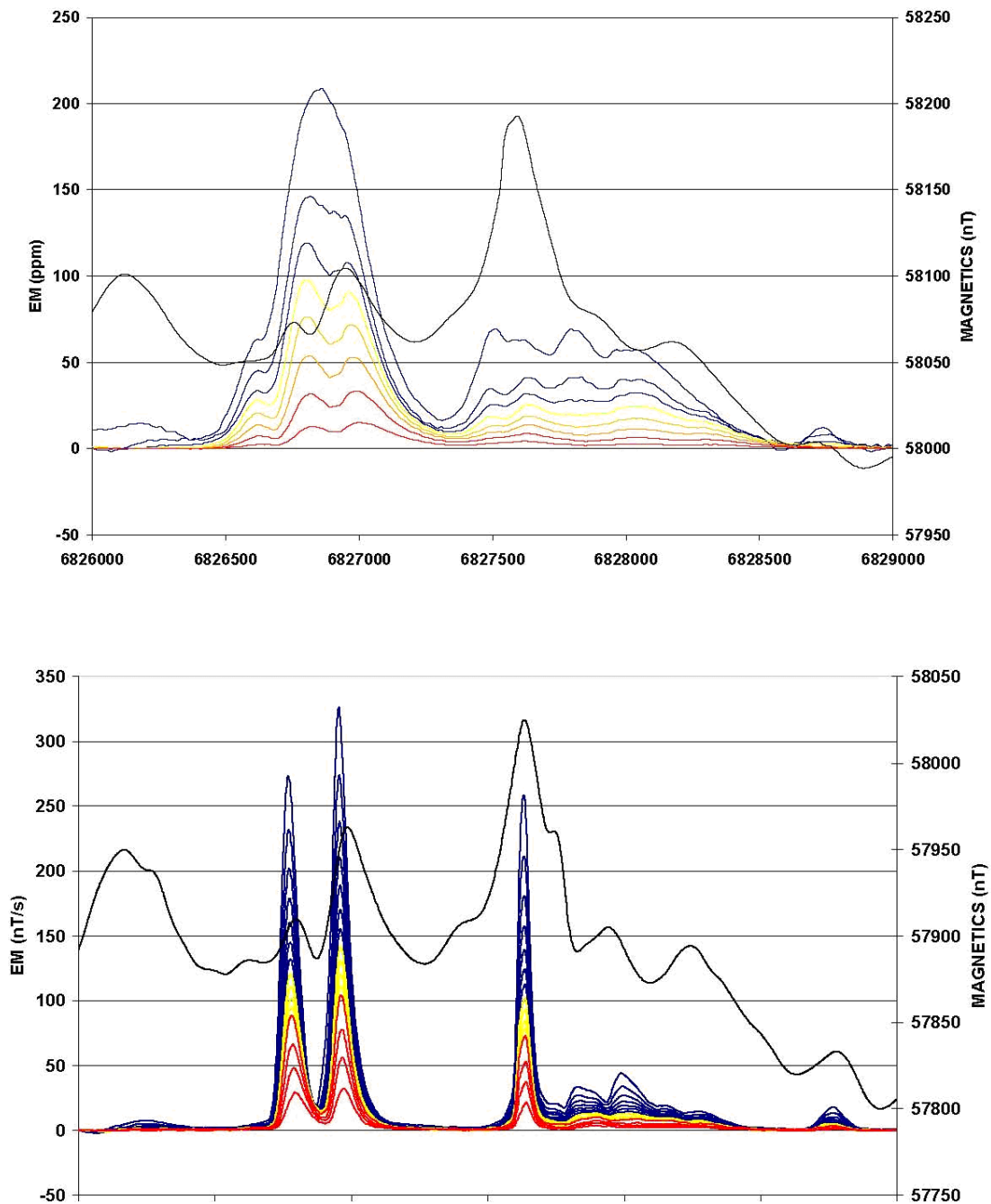


Figure 2. Fixed-wing (upper) and AeroTEM (lower) comparison over the eastern limit of the Mesamax Deposit, a Ni-Cu-PGE zone located in the Raglan nickel belt and owned by Canadian Royalties. Both systems detected the Deposit further to the west where it is closer to surface.

The small footprint of AeroTEM combined with the high signal to noise ratio (S/N) makes the system more suitable to surveying in areas where local infrastructure produces electromagnetic noise, such as power lines and railways. In 2002 Aeroquest flew four exploration properties in the Sudbury Basin that were under option by FNX Mining Company Inc. from Inco Limited. One such property, the Victoria Property, contained three major power line corridors.

The resulting AeroTEM survey identified all the known zones of Ni-Cu-PGE mineralization, and detected a response between two of the major power line corridors but in an area of favourable geology. Three boreholes were drilled to test the anomaly, and all three intersected sulphide. The third borehole encountered 1.3% Ni, 6.7% Cu, and 13.3 g/t TPMs over 42.3 ft. The mineralization was subsequently named the Powerline Deposit.

The success of AeroTEM in Sudbury highlights the advantage of having a system with a small footprint, but also one with a high S/N. This latter advantage is achieved through a combination of a high-moment (high signal) transmitter and a rigid geometry (low noise). Figure 3 shows the Powerline Deposit response and the response from the power line corridor at full scale. The width of power line response is less than 75 m.

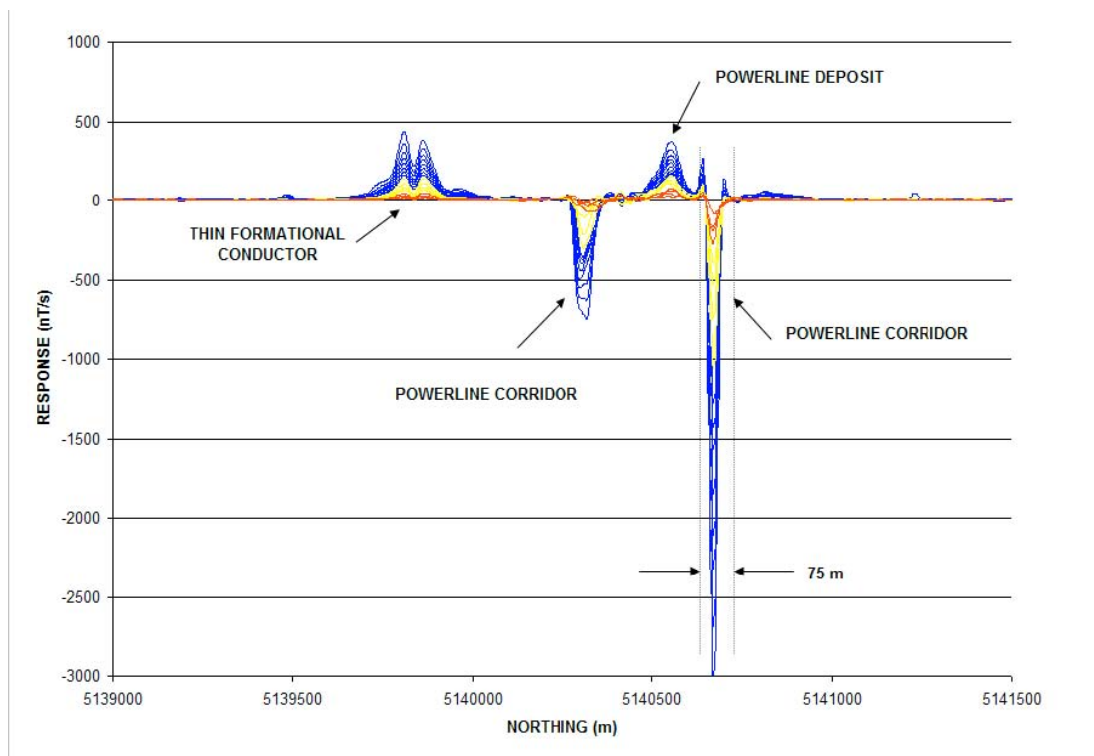


Figure 3. The Powerline Deposit is located between two major power line corridors, which make EM surveying problematic. Despite the strong response from the power line, the anomaly from the Deposit is clearly detected. Note the thin formational conductor located to the south. The only way to distinguish this response from that of two closely spaced conductors is by interpreting the X-axis coil response.

Advantage 2 – Conductance Discrimination

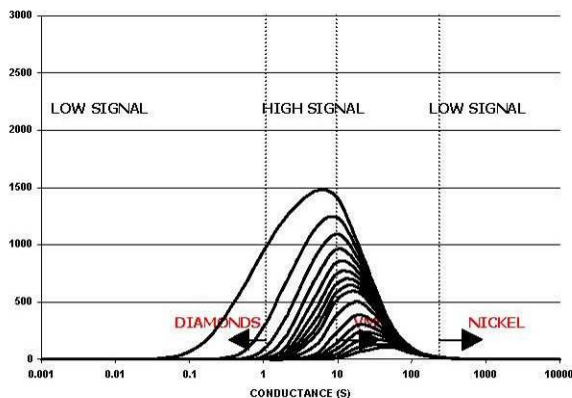
The AeroTEM system features full waveform recording and as such is able to measure the on-time response due to high conductance targets. Due to the processing method (primary field removal), there is attenuation of the response with increasing conductance, but the AeroTEM on-time measurement is still superior to systems that rely on lower base frequencies to detect high conductance targets, but do not measure in the on-time.

The peak response of a conductive target to an EM system is a function of the target conductance and the EM system base frequency. For time domain EM systems that measure only in the off-time, there is a drop in the peak response of a target as the base frequency is lowered for all conductance values below the peak system response. For example, the AeroTEM peak response occurs for a 10 S conductor in the early off-time and 100 S in the late off-time for a 150 Hz base frequency. Because base frequency and conductance form a linear relationship when considering the peak response of any EM system, a drop in base frequency of 50% will double the conductance at which an EM system shows its peak response. If the base frequency were lowered from 150 Hz to 30 Hz there would be a fivefold increase in conductance at which the peak response of an EM occurred.

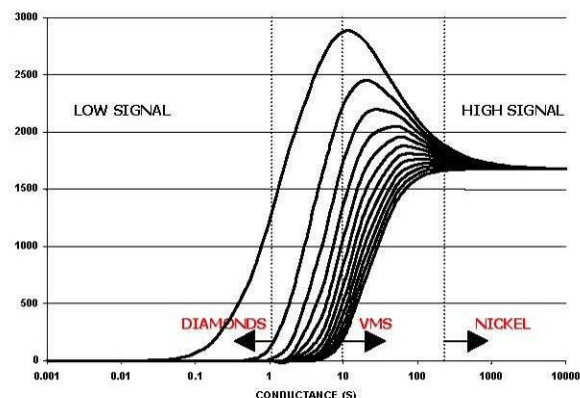
However, in the search for highly conductive targets, such as pyrrhotite-related Ni-Cu-PGM deposits, a fivefold increase in conductance range is a high price to pay because the signal level to lower conductance targets is reduced by the same factor of five. For this reason, EM systems that operate with low base frequencies are not suitable for general exploration unless the target conductance is more than 100 S, or the target is covered by conductive overburden.

Despite the excellent progress that has been made in modeling software over the past two decades, there has been little work done on determining the optimum form of an EM system for mineral exploration. For example, the optimum configuration in terms of geometry, base frequency and so remain unknown. Many geophysicists would argue that there is no single ideal configuration, and that each system has its advantages and disadvantages. We disagree.

When it comes to detecting and discriminating high-conductance targets, it is necessary to measure the pure in phase response of the target conductor. This measurement requires that the measured primary field from the transmitter be subtracted from the total measured response such that the secondary field from the target conductor can be determined. Because this secondary field is in-phase with the transmitter primary field, it must be made while the transmitter is turned on and the transmitter current is changing. The transmitted primary field is several orders of magnitude larger than the secondary field. AeroTEM uses a bucking coil to reduce the primary field at the receiver coils. The only practical way of removing the primary field is to maintain a rigid geometry between the transmitter, bucking and receiver coils. This is the main design consideration of the AeroTEM airframe and it is the only time domain airborne system to have this configuration.



The off-time AeroTEM response for the 16 channel configuration.



The on-time response assuming 100% removal of the measured primary field.

Figure 4. The off-time and on-time response nomogram of AeroTEM for a base frequency of 150 Hz. The on-time response is much stronger for higher conductance targets and this is why on-time measurements are more important than lower frequencies when considering high conductance targets in a resistive environment.

Advantage 3 – Multiple Receiver Coils

AeroTEM employs two receiver coil orientations. The Z-axis coil is oriented parallel to the transmitter coil and both are horizontal to the ground. This is known as a maximum coupled configuration and is optimal for detection. The X-axis coil is oriented at right angles to the transmitter coil and is oriented along the line-of-flight. This is known as a minimum coupled configuration, and provides information on conductor orientation and thickness. These two coil configurations combined provide important information on the position, orientation, depth, and thickness of a conductor that cannot be matched by the traditional geometries of the HEM or fixed-wing systems. The responses are free from a system geometric effect and can be easily compared to model type curves in most cases. In other words, AeroTEM data is very easy to interpret. Consider, for example, the following modeled profile:

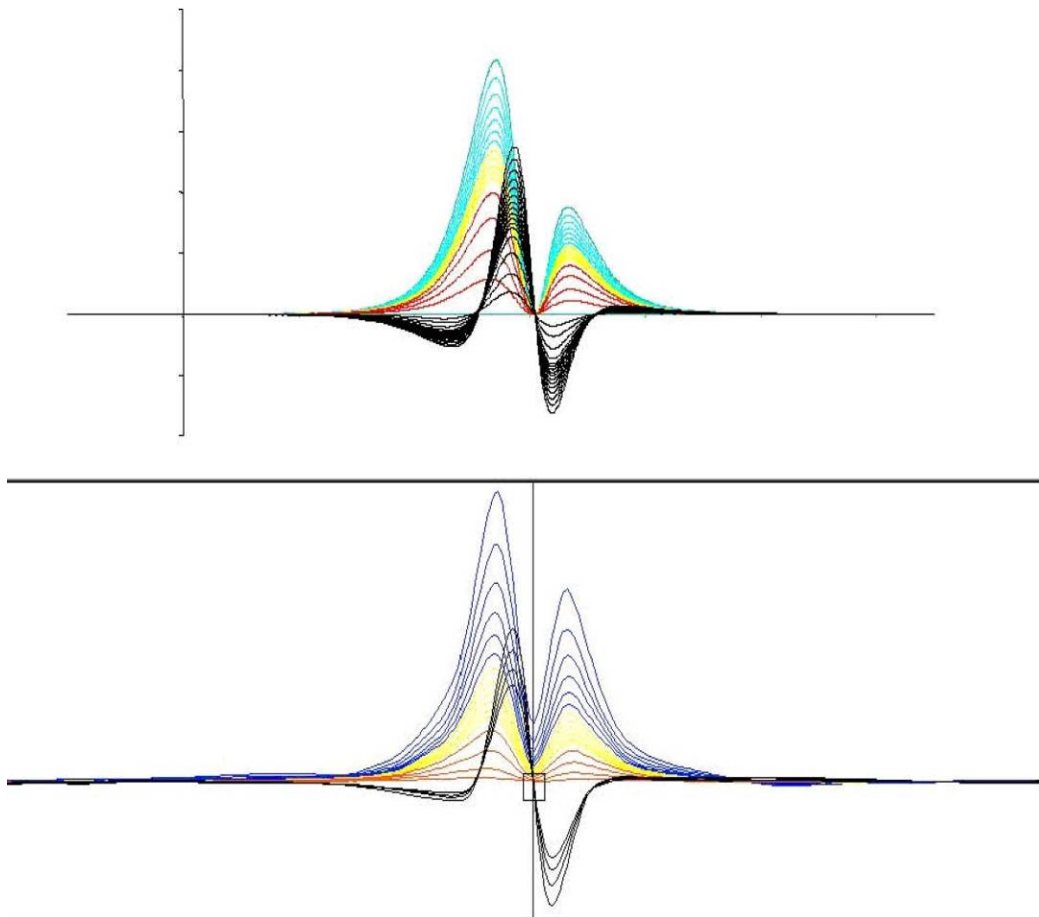


Figure 5. Measured (lower) and modeled (upper) AeroTEM responses are compared for a thin steeply dipping conductor. The response is characterized by two peaks in the Z-axis coil, and a cross-over in the X-axis coil that is centered between the two Z-axis peaks. The conductor dips toward the higher amplitude Z-axis peak. Using the X-axis cross-over is the only way of differentiating the Z-axis response from being two closely spaced conductors.

HEM versus AeroTEM

Traditional helicopter EM systems operate in the frequency domain and benefit from the fact that they use narrowband as opposed to wide-band transmitters. Thus all of the energy from the transmitter is concentrated in a few discrete frequencies. This allows the systems to achieve excellent depth penetration (up to 100 m) from a transmitter of modest power. The Aeroquest Impulse system is one implementation of this technology.

The AeroTEM system uses a wide-band transmitter and delivers more power over a wide frequency range. This frequency range is then captured into 16 time channels, the early channels containing the high frequency information and the late time channels containing the low frequency information down to the system base frequency. Because frequency domain HEM systems employ two coil configurations (coplanar and coaxial) there are only a maximum of three comparable frequencies per configuration, compared to 16 AeroTEM off-time and 12 AeroTEM on-time channels.

Figure 6 shows a comparison between the Dighem HEM system (900 Hz and 7200 Hz coplanar) and AeroTEM (Z-axis) from surveys flown in Raglan, in search of highly conductive Ni-Cu-PGM sulphide. In general, the AeroTEM peaks are sharper and better defined, in part due to the greater S/N ratio of the AeroTEM system over HEM, and also due to the modestly filtered AeroTEM data compared to HEM. The base levels are also better defined in the AeroTEM data. AeroTEM filtering is limited to spike removal and a 5-point smoothing filter. Clients are also given copies of the raw, unfiltered data.

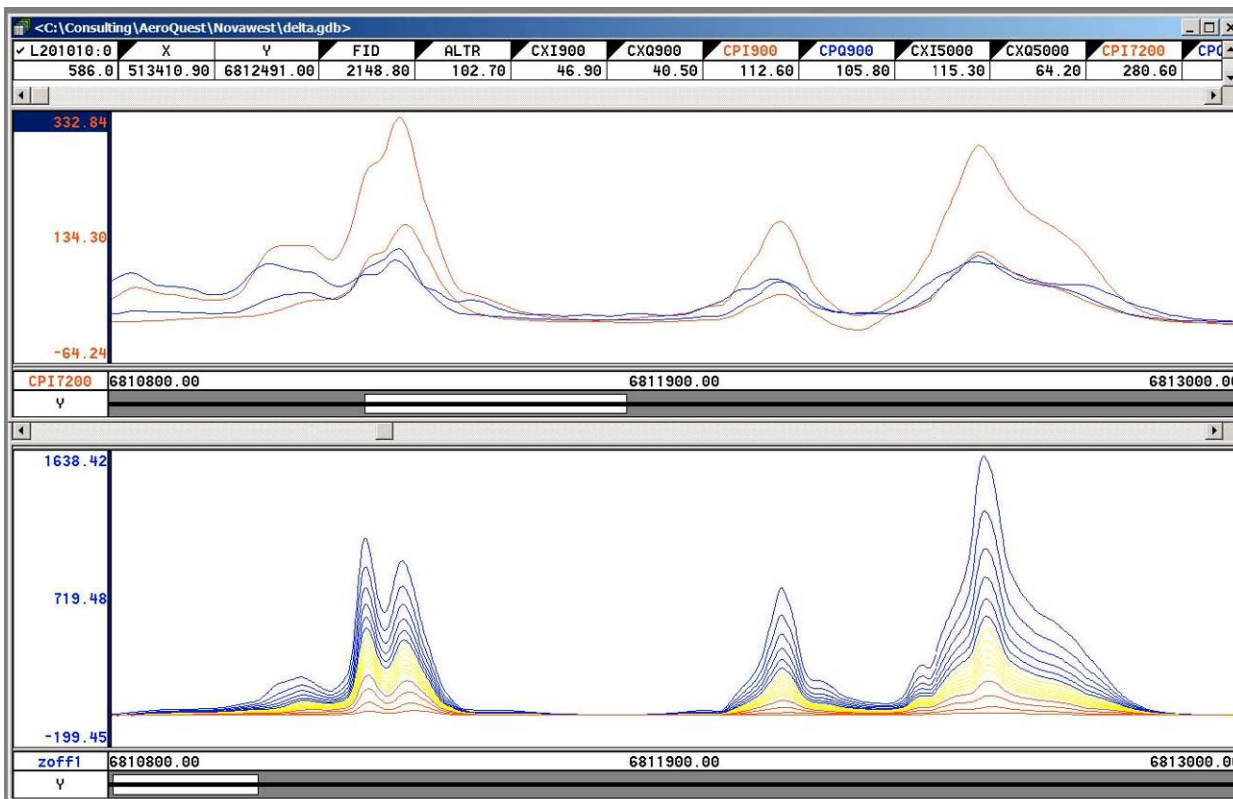


Figure 6. Comparison between Dighem HEM (upper) and AeroTEM (lower) surveys flown in the Raglan area. The AeroTEM responses appear to be more discrete, suggesting that the data is not as heavily filtered as the HEM data. The S/N advantage of AeroTEM over HEM is about 5:1.

Aeroquest Limited is grateful to the following companies for permission to publish some of the data from their respective surveys: Wolfden Resources, FNX Mining Company Inc, Canadian Royalties, Nova West Resources, Aurogin Resources, Spectrem Air. Permission does not imply an endorsement of the AeroTEM system by these companies.

APPENDIX 5: AEROTEM INSTRUMENTATION SPECIFICATION SHEET

AEROTEM Helicopter Electromagnetic System

System Characteristics

- Transmitter: Triangular Pulse Shape Base Frequency 90 Hz
- Tx On Time – 1,833 (90 Hz) μ s
- Tx Off Time – 3,667 (90 Hz) μ s
- Loop Diameter - 10 m
- Peak Current - 455 A
- Peak Moment – 183,131 NIA
- Typical Z Axis Noise at Survey Speed = 5 nT/s peak to peak
- Sling Weight: 1000 lb
- Length of Tow Cable: 53 m
- Bird Survey Height: 30 m nominal

Receiver

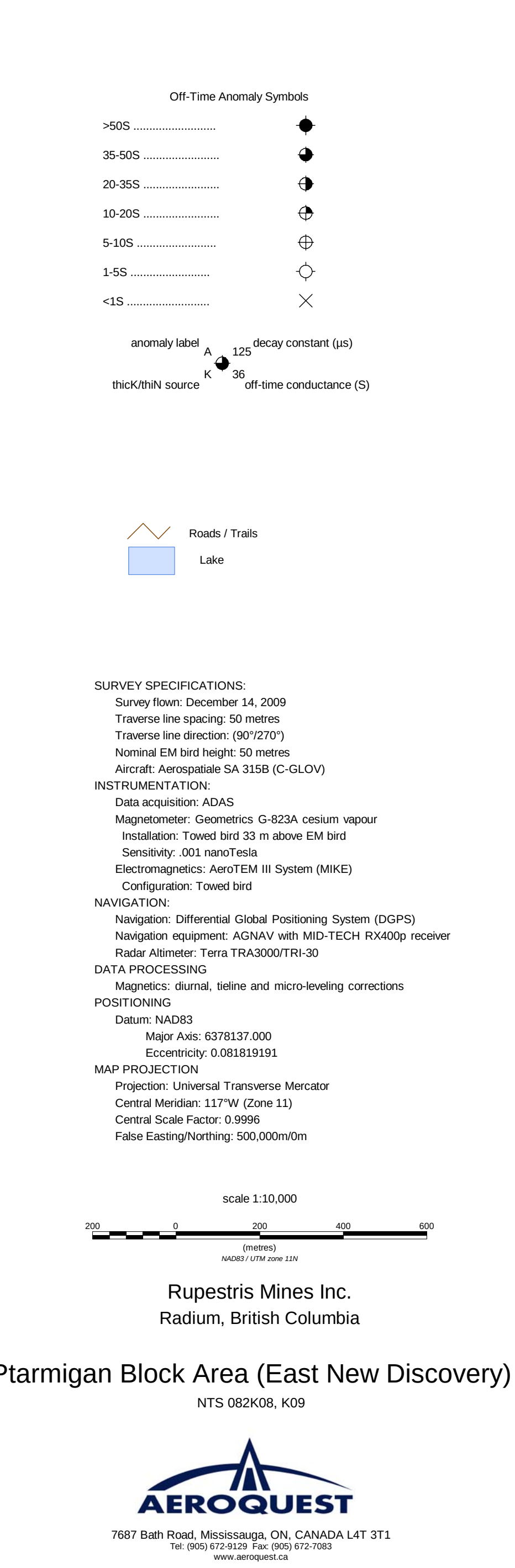
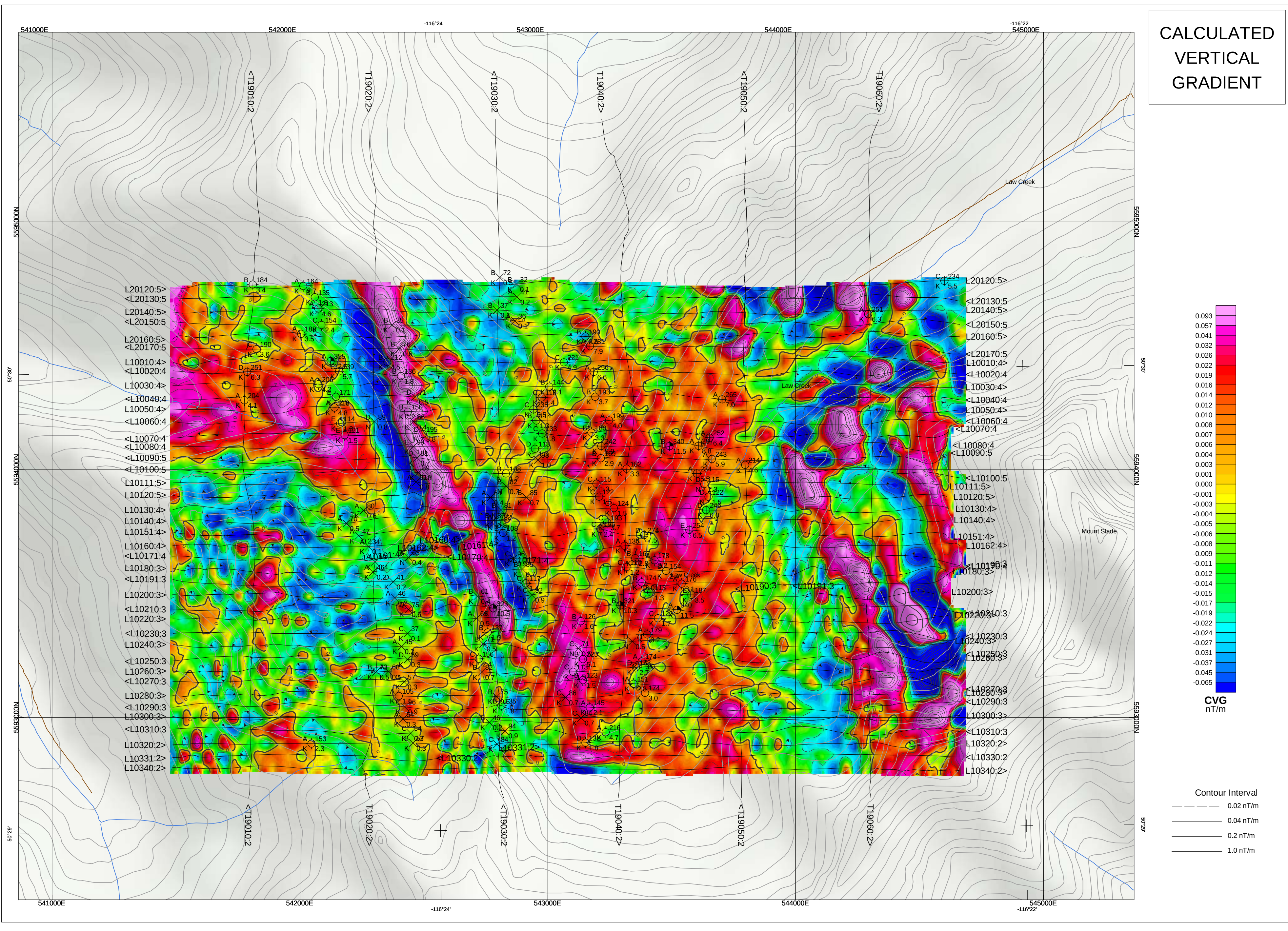
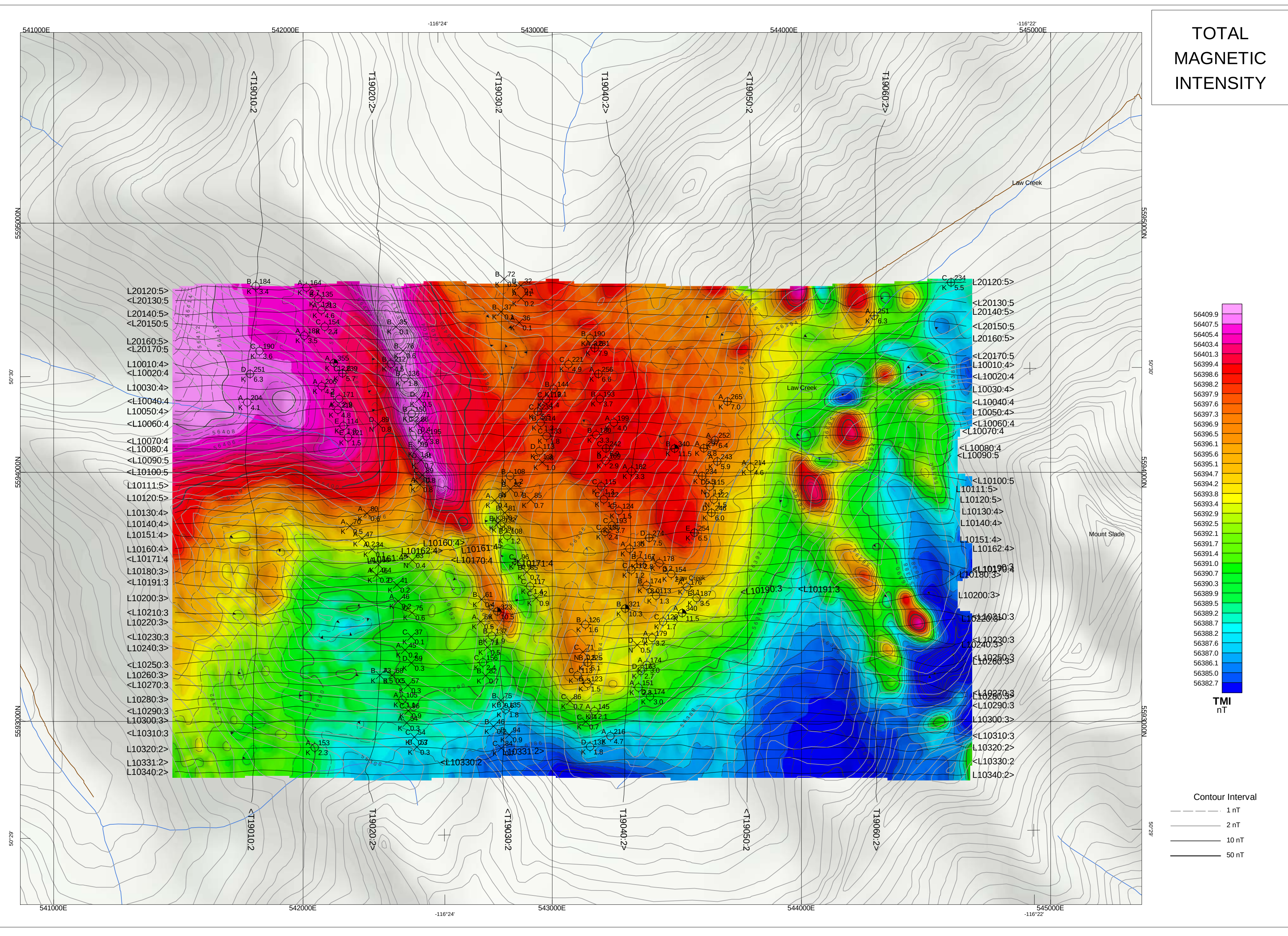
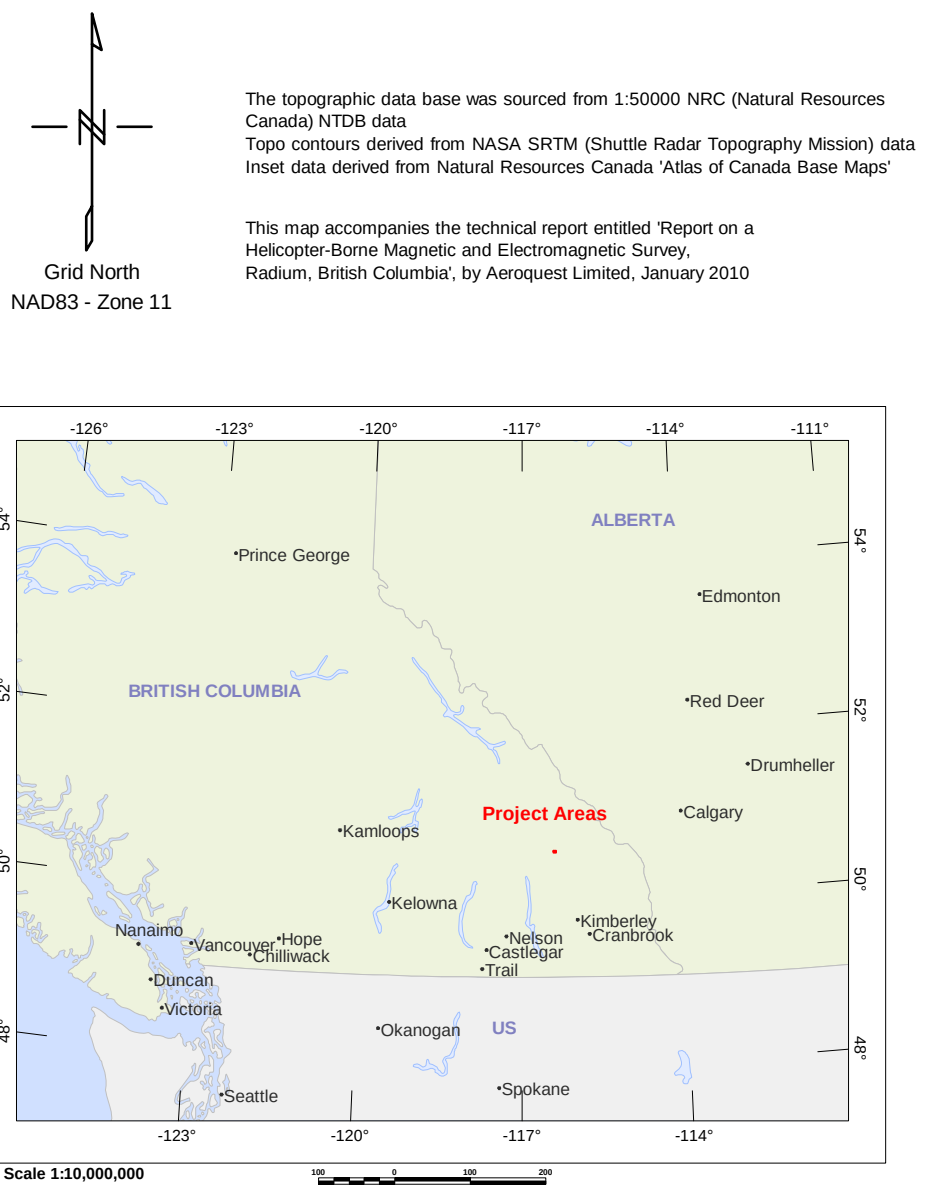
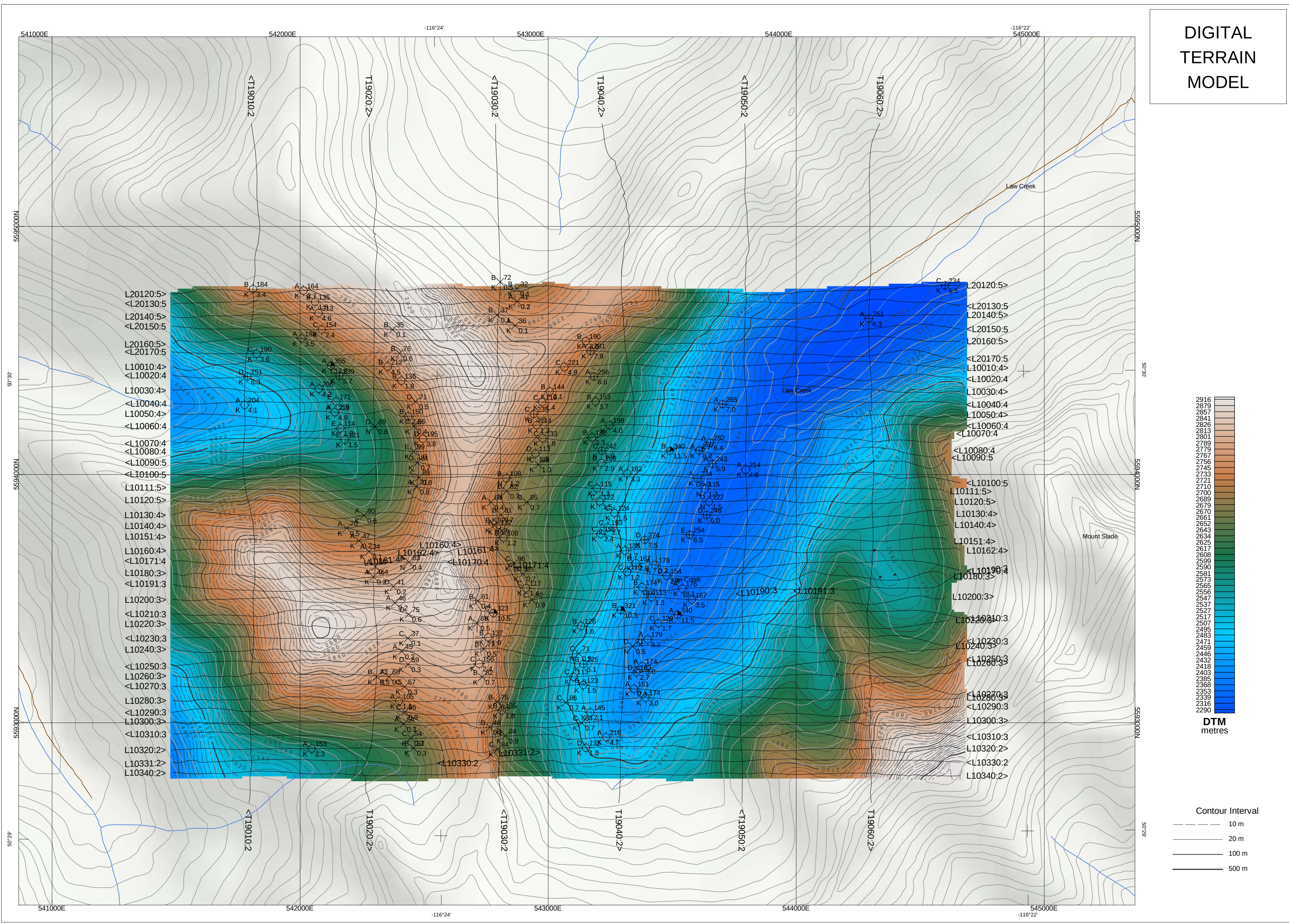
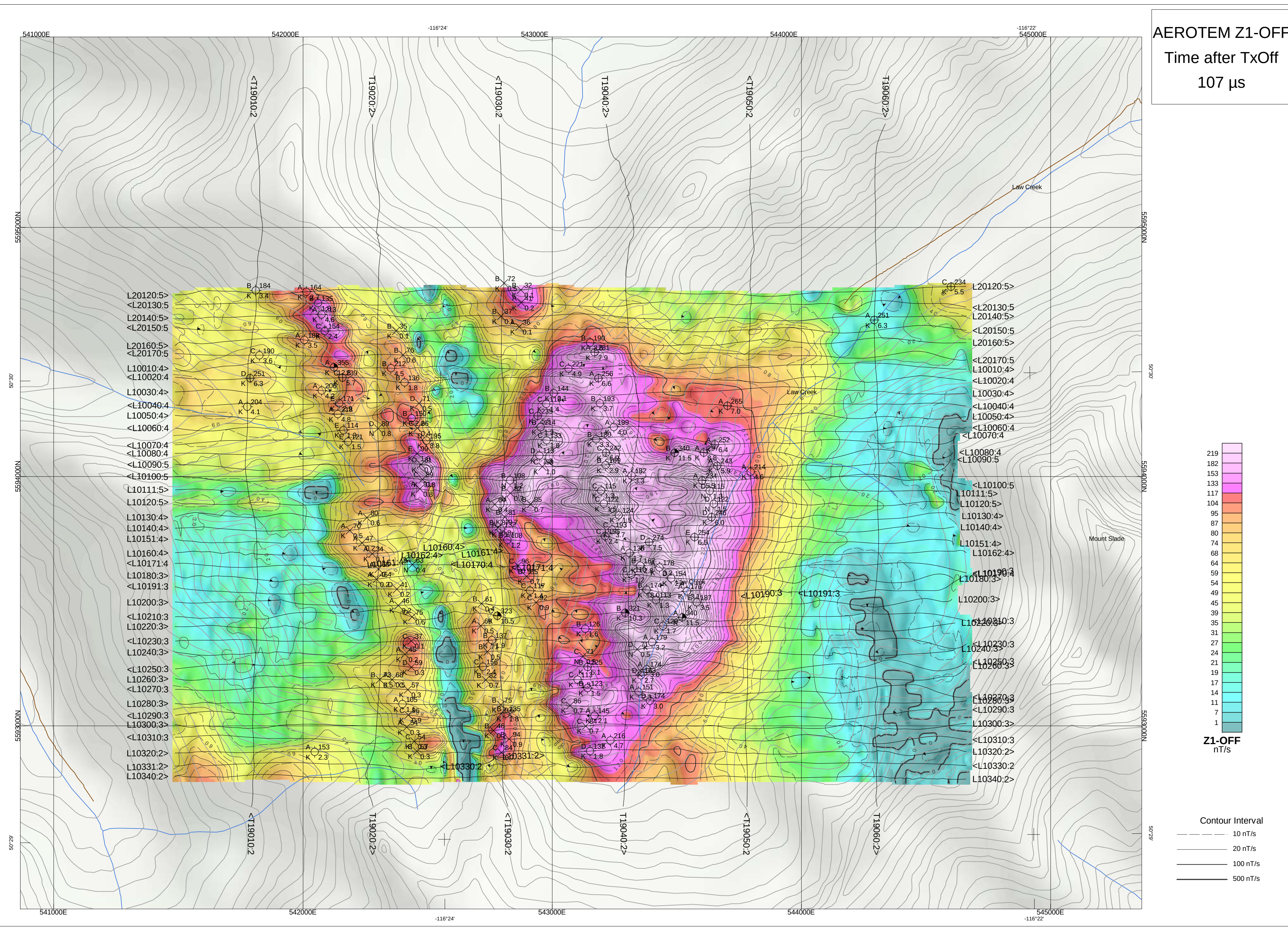
- Two Axis Receiver Coils (x, z) positioned inside the transmitter loop
- Selectable Time Delay to start of first channel 21.3 , 42.7, or 64.0 ms

Display & Acquisition

- AERODAS Digital recording at 120 samples per decay curve at a maximum of 300 curves per second (27.778 μ s channel width)
- RMS Channel Widths: 52.9, 132.3, 158.7, 158.7, 317.5, 634.9 μ s
- Recording & Display Rate = 10 readings per second.
- On-board display - six channels Z-component and 1 X-component

System Considerations

Comparing a fixed-wing time domain transmitter with a typical moment of 500,000 NIA flying at an altitude of 120 m with a Helicopter TDEM at 30 m, notwithstanding the substantial moment loss in the airframe of the fixed wing, the same penetration by the lower flying helicopter system would only require a sixty-fourth of the moment. Clearly the AeroTEM system with nearly 183.131 NIA has more than sufficient moment. The airframe of the fixed wing presents a response to the towed bird, which requires dynamic compensation. This problem is non-existent for AeroTEM since transmitter and receiver positions are fixed. The AeroTEM system is completely portable, and can be assembled at the survey site within half a day.



APPENDIX 7

Scott Geophysics Geophysical Report

LOGISTICAL REPORT
INDUCED POLARIZATION AND MAGNETOMETER SURVEYS

RUPESTRIS PROJECT
RADIUM AREA, B.C.

on behalf of

RUPESTRIS MINING
223 Riverview Circle, S.E.
Calgary, Alberta T2C 4K6

Survey performed: August 1-6, 2009

by

Brad Scott, Geologist (GIT)
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

August 16, 2009

TABLE OF CONTENTS

1	Introduction	page 1
2	Survey coverage and procedures	1
3.	Personnel	1
4.	Instrumentation	2

Appendix

Statement of Qualifications	rear of report
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Accompanying Maps (all 1:2500 scale)

Map roll and CD

Chargeability/resistivity pseudosections

Lines 3875N, 3950N, 4025N, 4075N, 4100N

Lines 4150N, 4200N, 4250N, 4300N

Chargeability contour plan – Triangular-Filtered Values (UTM coordinates)

Resistivity contour plan – Triangular-Filtered Values (UTM coordinates)

Magnetometer contour plan (UTM coordinates)

Magnetometer profiles (idealized grid coordinates)

Accompanying Data Files

One (1) CD-ROM with all survey data and plots in Surfer 8 and pdf formats	rear of report
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1. INTRODUCTION

Induced polarization (IP) and total field magnetometer surveys were performed at the Rupestris Project, Radium area, B.C. within the period August 1-6, 2009. In addition, non-differential GPS readings were taken at each station and at the remote (“infinite”) current location.

The survey was performed by Scott Geophysics Ltd. on behalf of Rupestris Mining. This report describes the instrumentation and procedures, and presents the results of the survey.

2. SURVEY COVERAGE AND PROCEDURES

The pole-dipole array was used. Readings were taken with an “a” spacing of 25 metres and “n” separations of 1-5. The on line current electrode was located to the west of the potential electrodes.

Total field magnetometer readings were taken at 12.5 metre intervals and corrected for diurnal variation against a fixed base station cycling at 10 second intervals.

GPS readings were taken at each station subject to satellite reception. Elevation measurements are barometric altimeter readings, calibrated to GPS altitude at the beginning of each line.

A total of 5.05 kilometres of IP and 4.8 km of magnetometer survey were performed.

The chargeability and resistivity results are presented on the accompanying pseudosections and triangular-filtered plan maps. The magnetometer survey results are presented on the accompanying profiles and plan maps. All survey data are archived to the accompanying CD-ROM.

3. PERSONNEL

Brad Scott was the crew chief on the survey on behalf of Scott Geophysics Ltd. Steve Konopelky was the representative on behalf of Rupestris Mining.

4. INSTRUMENTATION

A GDD GRx8 receiver and a GDD TxII-5000W transmitter were used for the IP survey. Readings were taken in the time domain using a 2 second on/2 second off alternating square wave. The chargeability values plotted on the accompanying pseudosections and plan maps are for the interval 690 to 1050 msec after shutoff.

Scintrex ENVI proton precession magnetometers were used for both field and base units for the magnetometer survey.

GPS readings were taken with a Garmin GPSMap 60CSx GPS receiver.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Brad Scott', with a stylized, looping flourish at the end.

Brad Scott, Geologist (GIT)

Statement of Qualifications

for

Brad Scott, Geologist (GIT)

of

1230 Harrison Way,
Gabriola, B.C. V0R 1X2

I, Brad Scott, hereby certify the following statements regarding my qualifications and involvement in the program of work on behalf of Rupestris Mining at the Rupestris Project, Radium area, B.C. as presented in this report August 16, 2009:

The work was performed by individuals trained and qualified for its performance.

I have no material interest in the property under consideration in this report.

I graduated from the University of British Columbia with a Bachelor of Science degree (Geology) in 2000.

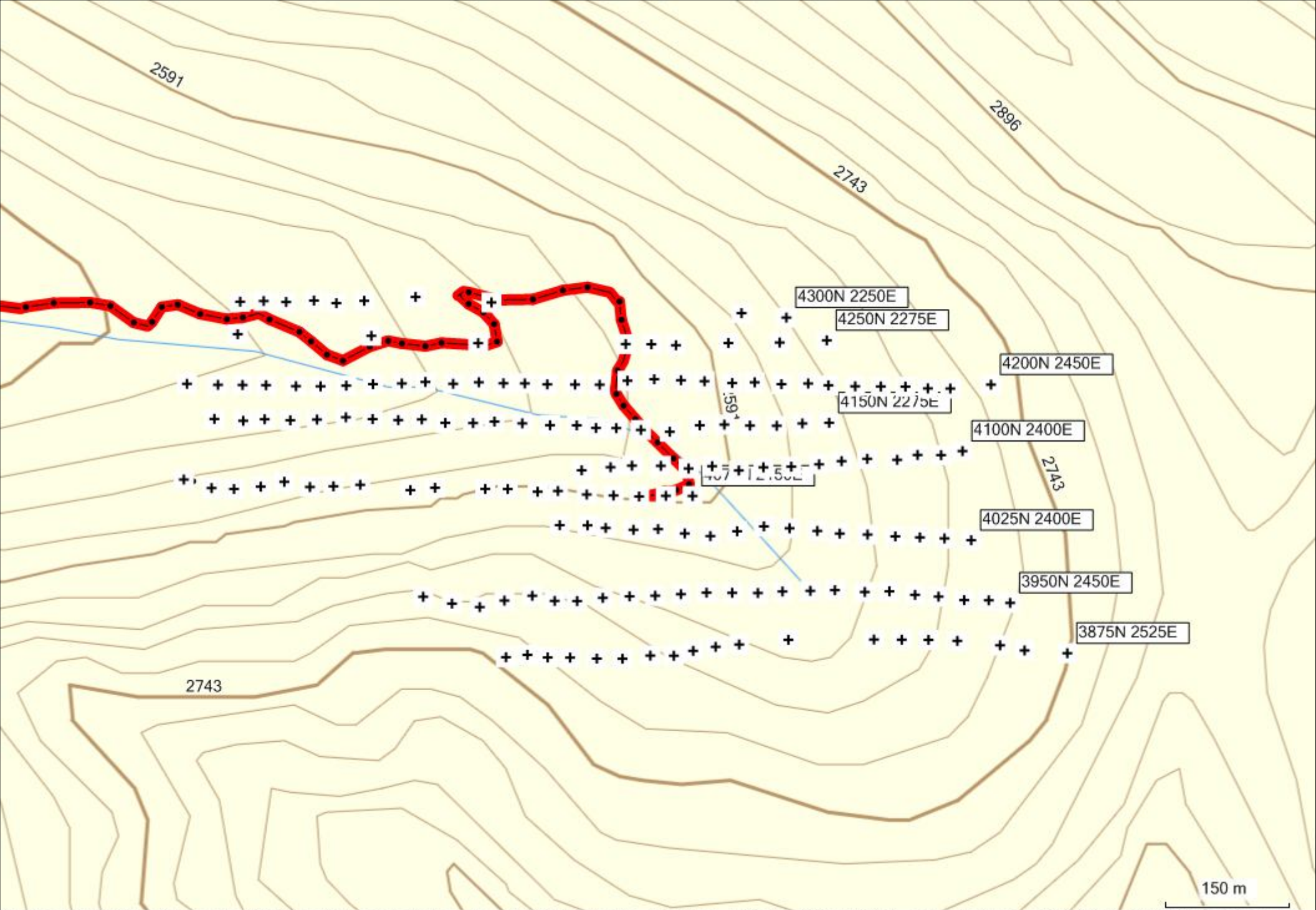
I am a member-in-training of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

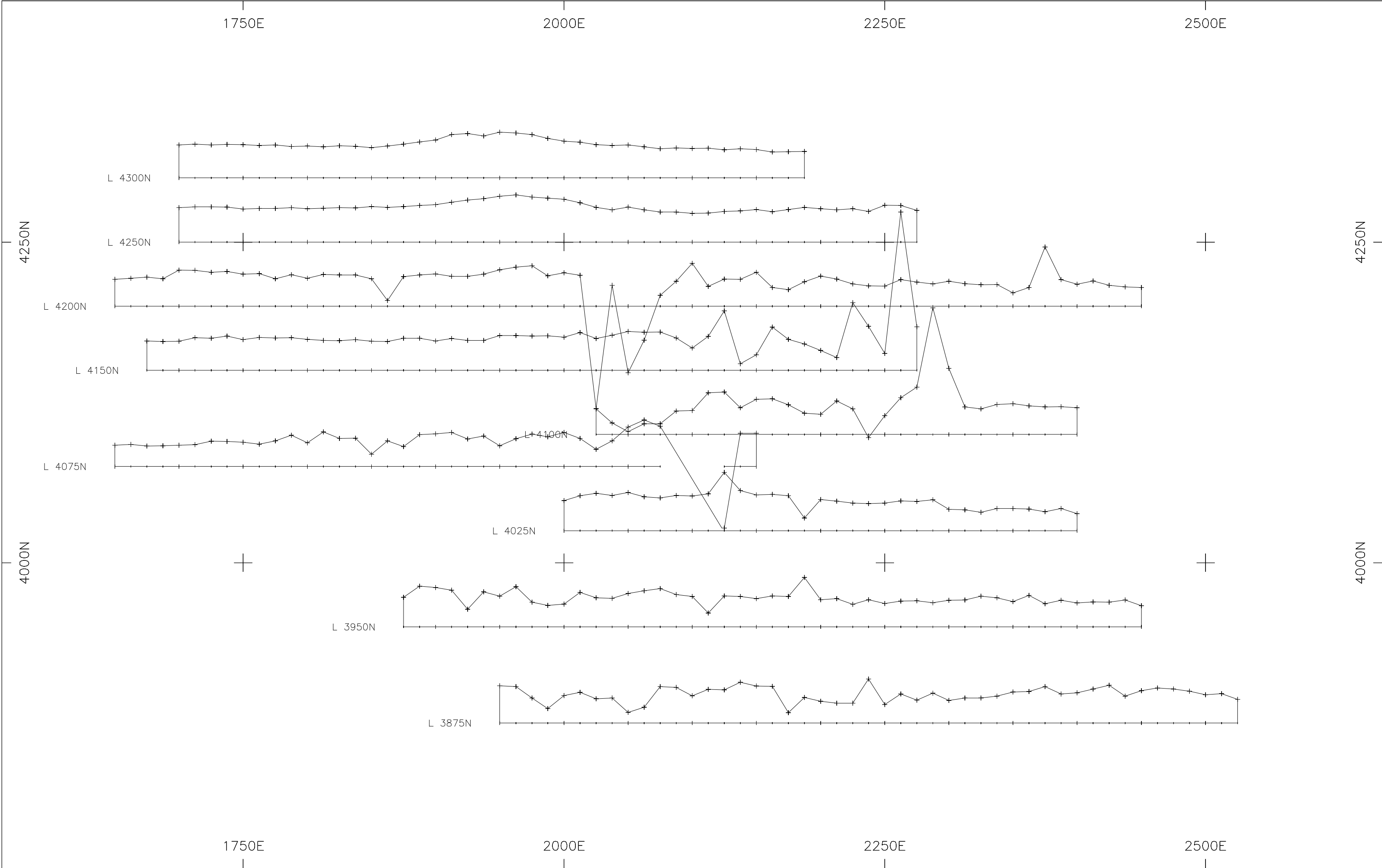
I have been practising my profession in the field of Mineral Exploration since 2000.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'B. Scott', with a stylized flourish at the end.

Brad Scott





Survey Specifications

Survey performed: August 2009

Survey magnetometer: Scintrex ENVI
Base magnetometer: Scintrex ENVI
Type: proton precession

Measurment: total field
Data interval: 12.5 m
Diurnal corrections: base station

profile base: 56500 nT
profile scale: 50 nT/cm
(at 1:2500 scale)

Coordinates: idealized grid

Rupestris Mines

Rupestris Property
Radium area, B.C.
Total Field Magnetometer Survey
Stacked Profiles

DRAWN BY: B Scott	DATE: August 2009
SCOTT GEOPHYSICS LTD.	

