

**BC Geological Survey
Assessment Report
32362**

EMPEROR MINERALS LTD.

*(Formerly Cheetah Ventures Ltd.)
(Owner and Operator)*

GEOPHYSICAL ASSESSMENT REPORT

(Event Number 4829053)

on a

VLF-EM Survey
(October 26-27, 2010)

on

Tenures 705945 & 705957

of the

POTHOLE LAKE PROPERTY
*Nicola Mining Division
NTS 092H.098*

Author & Consultant
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Sookochoff Consultants Inc.

Report Date
July 19, 2011

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SUMMARY

The 100% owned Emperor Minerals Ltd. Pothole Lake Property, located 25 kilometers southeast of Merritt in the historic Aspen Grove copper camp of southern British Columbia, covers an area of approximately 208 hectares. The property is located within the belt of Nicola rocks which are noted for their copper deposits; the nearest ones being the former producers, Craigmont at Merritt 45 km north, Copper Mountain at Princeton 70 km to the south, and Afton at Kamloops 125 km to the north.

In the Aspen Grove copper camp the Nicola rocks are subdivided into three belts separated by two northerly trending fault systems. The Pothole Lake property is situated within the eastern assemblage of the Nicola rocks that are comprised mainly of volcanic related rocks. The assemblage is characterized by a paucity of intrusive rocks in comparison to the Central Belt and the main Aspen Grove copper camp.

On the Grove/Snowflake property in the Central Belt, adjacent to the Pothole Lake property to the west, significant mineral values are reported; 0.29% copper over 45m in trenches and "60 feet" of 0.26% copper at the bottom of a "320 foot" percussion hole. Osatenko (1979) reports that the native copper and chalcocite on the Snowflake property may be primary, much like at Afton. Craigmont Exploration reported increasing copper grades with depth in the percussion holes. As a result of exploration by Cominco in 1979, a broad arcuate band of a "possible peripheral zone" of pyrite was interpreted on the western Snowflake claims with their exploration target area to the east and towards the Pothole Lake property.

Former exploration on the Pothole Lake Property ground reportedly delineated a copper-gold-silver showing designated as the Pothole Copper Zone indicated as MINFILE Pot 1 mineral showing (MINFILE 092HNE204). Assays of samples from this showing report mineral values of up to 2.55 grams gold per tonne and 1.9 grams silver per tonne over 130 metres. The 2003 Previa (now Emperor Minerals Ltd.) IP survey reportedly revealed either the northeastern extension of the Pothole copper zone or a reflection of mineralization that is associated with the Pot showing.

A 2003 VLF-EM and magnetometer survey on the Pothole Lake property, centred on the POT showing indicated that the Pot 1 showing occurs at the intersection of two structures with indications that if the structures are the mineral controls, and the magnetic and VLF-EM anomalies reflect the mineral showing, the Pot 1 mineral showing is indicated to extend to the northwest or to the northeast where the anomalous responses occur to a greater degree.

Additional localized geophysical surveys (VLF-EM) from 2005 to 2008 indicated other localized VLF-EM intersecting and anomalous zones.

The 2010 VLF-EM survey was successful in delineating localized areas of indicated potential mineral controlling cross structures which may provide controls for potentially economic mineralization. These indicated areas of intersection would be prime areas to explore for geological surficial mineral indicators of potential sub surface mineralization. These general indicators may occur as mineralization, alteration, or as veinlets of mineralized intrusive.

INTRODUCTION

During October 2010, an exploration program comprised of a localized VLF-EM survey was completed on the Pothole Lake property of Emperor Minerals Ltd. The exploration program was completed over an area between the 2007 and the 2008 VLF-EM surveys. Information for this report was obtained from sources as cited under Selected References and from the 2010 VLF-EM survey performed by the author.

PROPERTY DESCRIPTION AND LOCATION

The property consists of two contiguous claims for an effective area of 207.9095 hectares. Particulars are as follows:

<u>Tenure Number</u>	<u>Type</u>	<u>Claim Name</u>	<u>Good Until</u>	<u>Area (ha)</u>
705945	Mineral	POTHOLE	20130211	124.7565
705957	Mineral	POTHOLE 1	20130211	83.153

Total Area: 207.9095 ha

*Upon the approval of the assessment recorded as Event Number 4829053 for which this report forms a part thereof.

The claims comprising the Pothole Lake property are registered in the name of the author and held in trust for Emperor Minerals Ltd. which is the owner and the operator of the Pothole Lake Property.

The Property is located within NTS 092H.088 of the Nicola Mining Division, approximately 25 kilometres southeast of Merritt and eight kilometres east of Aspen Grove and the historical Aspen Grove Mining Camp in southwestern British Columbia, Canada.

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

Access is from south from Merritt via the paved all-weather Highway #5 for approximately 25 kilometers to the Kentucky Lake-Alleyne Lake road. At approximately eight kilometers east along this graveled secondary road, one kilometer past the Kentucky Lake provincial campsite, the Crater Lake poor secondary dirt road junctions off to the north. At approximately eight kilometers, the road intersects the northwest corner of the property.

This poor secondary road is maintained by, and its use subject to the permission from, the Douglas Lake Cattle Company.

The region is situated within the dry belt of British Columbia with rainfall between 25 and 30 cm per year. Temperatures during the summer months could reach a high of 35° and average 25°C with the winter temperatures reaching a low of -10° and averaging 8°.

On the property, the permanent snow on the ground would be from December to April and would not hamper a year-round exploration program.

Sufficient water for all phases of the exploration program could be available from the many lakes and creeks, which are located within the confines of the property. Electrical power may be available from a high voltage transmission line that is within 15 kilometers west of the property. A natural gas and an oil pipeline are within 22 kilometres west of the property.

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY (cont'd)

The property is situated at the western edge of the Douglas Plateau, which is within the physiographic area designated as the Interior Plateau of British Columbia. Pothole Lake, along the west-central boundary, is at an elevation of 3,100 metres. Gentle to moderate slopes prevail with relief in the order of some 200 meters.

Figure 1. Location Map
(from Google Earth)



Merritt, or Kamloops, an historic mining centre 76 km north of the property, could be a source of experienced and reliable exploration and mining personnel and a supply for most mining related equipment. Kamloops is serviced daily by commercial airline and is a hub for road and rail transportation. Vancouver, a port city on the southwest corner of, and the largest city in the Province of British Columbia, is four hours distant by road and less than one hour by air from Kamloops.

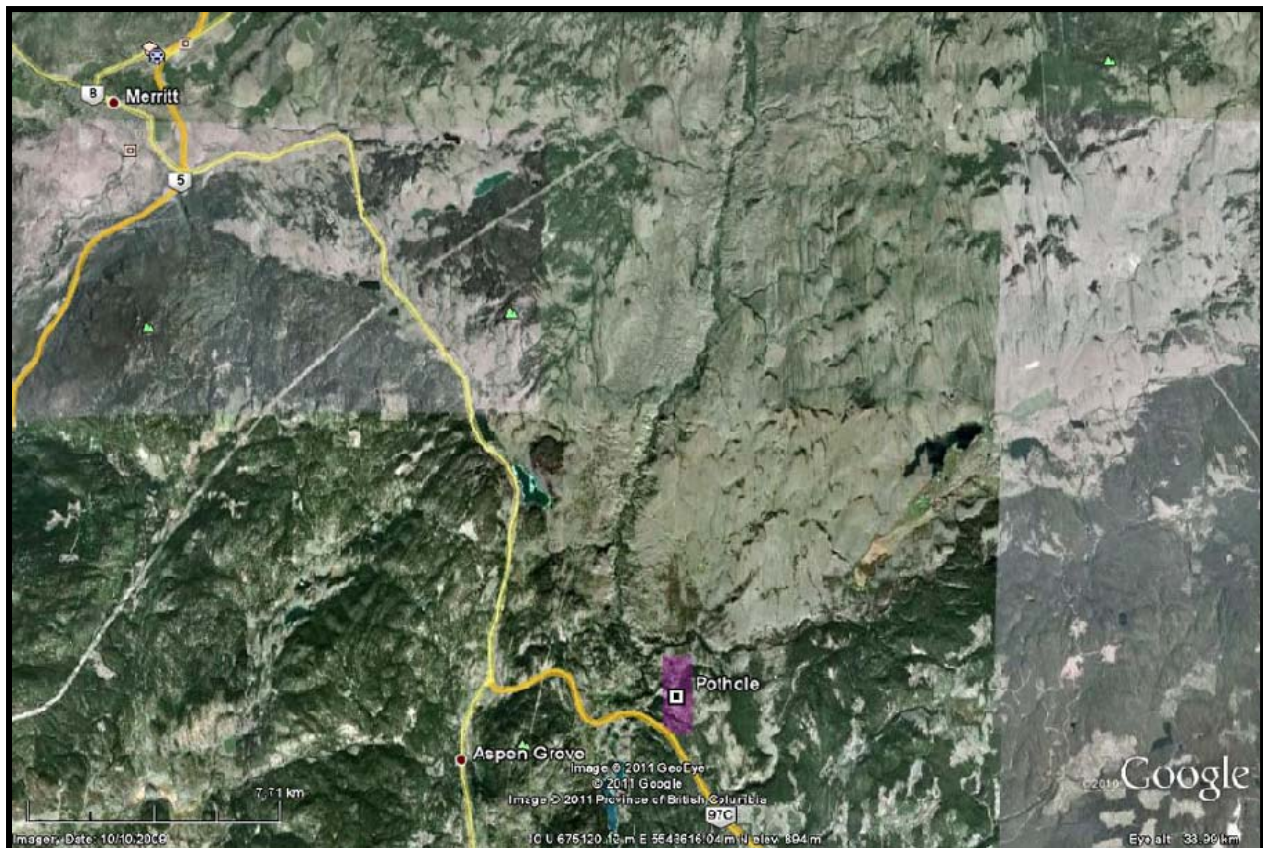
HISTORY

Late 1800's and early 1900's: The Aspen Grove copper camp was outlined by the numerous discoveries of mineral occurrences, some of which were explored more extensively than others. One of the more significant occurrences covered by the Snowflake claims is located at Aspen Grove.

HISTORY (cont'd)

Late 1970's and 1980's: Many "major" mining companies including Cominco carried out much of their work in the Snowflake claim area which extended from Highway #5 and Aspen Grove in the west to Pothole Lake in the east; however, the exploration was concentrated in the western portion. Some of the eastern claims were allowed to expire and were subsequently staked as the Pot claims.

Figure 2. Tenure Locations
(from Google)



1985: Laramide Resources Ltd. conducted exploration work on, and adjacent to, the ground presently covered by the POTHOLE claims (AR 13,714). In the results of the exploration on ground covered by the Pothole Lake property Watson (1985) reported rock sample assay results with significant silver and gold values in a zone designated as the Pothole Copper Zone and also background silver and gold values in two locations; east of, and south of, Pothole Lake. In addition, Watson reports that the results of a magnetometer survey completed to the northwest of the Pothole Lake property revealed a relatively smooth, north trending high that suggests a partially concealed dioritic intrusion thinly overlain by tholeiitic volcanics.

HISTORY (cont'd)

2002-2003: Geological and geophysical surveys were completed by Previa Resources Ltd. (now Emperor Minerals Ltd.) reportedly revealed either the northeastern extension of the Pothole copper zone (MINFILE 092HNE204) or a reflection of mineralization that is associated with the Pot showing. In addition Mark (2003) reports that in the general coverage of the Pothole Lake Property, the Pothole copper zone occurs at the intersection of two magnetic lineations.

In a geophysical report, D. Mark, P. Geo. reports that the results of the surveys revealed a broad magnetic high to the west of the Pothole copper zone may be reflecting a magnetic intrusive underlying the Nicola volcanics. An IP anomaly, "A" is indicated as the northeastern extension of the Pothole Lake copper zone. The anomaly is also correlative with magnetic lineations that could reflect intersecting fault structures and thus potential mineral controlling structures near the Pothole Copper Zone. IP anomaly B, which occurs to the immediate north of the magnetic high, may reflect sulphides that are associated with faulting. In a geological report on the Pothole Lake property, S. Kenwood, P. Geo. reports that the property covers a contact between the Upper Triassic Nicola Group and the Lower Cretaceous Kingsville Group. Predominant regional structures, those that host most of the copper mineralization in the Aspen Grove area, trend north-northwest with local structures trending southwest to northeast. The Pothole Copper Zone is the intersection of the regional northwest trending granitic dykes and the local southwest fault structures.

2006 (February): The localized VLF-EM and magnetometer survey completed on the Pothole Lake property by Previa Resources Ltd. (now Emperor Minerals Ltd.) centred on the POT mineral showing indicated that the Pot 1 mineral showing (MINFILE 092HNE204) occurs at the intersection of two structures with indications that if the structures are the mineral controls, and the magnetic and VLF-EM anomalies reflect the mineral showing. The Pot 1 mineral showing is indicated to extend to the northwest or to the northeast where the anomalous responses occur to a greater degree (AR 28,397).

2006:(July) The VLF-EM survey completed by Previa Resources Ltd. (now Emperor Minerals Ltd.) reportedly delineated four anomalous zones; two of which indicate potential intersecting mineral controlling structures and one weak anomaly correlating with the indicated Quilchena Creek structure and the KIT showing (MINFILE 092HNE270) reported to contain minor chalcopyrite, malachite, and molybdenite associated with a granodiorite near a faulted contact with slightly pyritic Nicola Group greenstone (AR 29,155).

2007: (November) The VLF-EM survey completed by Rose Marie Resources Ltd. (now Emperor Minerals Ltd.) reportedly resulted in the delineation of one prime anomalous zone which may indicate a structure within friable pelitic sedimentary rocks exposed in this area.

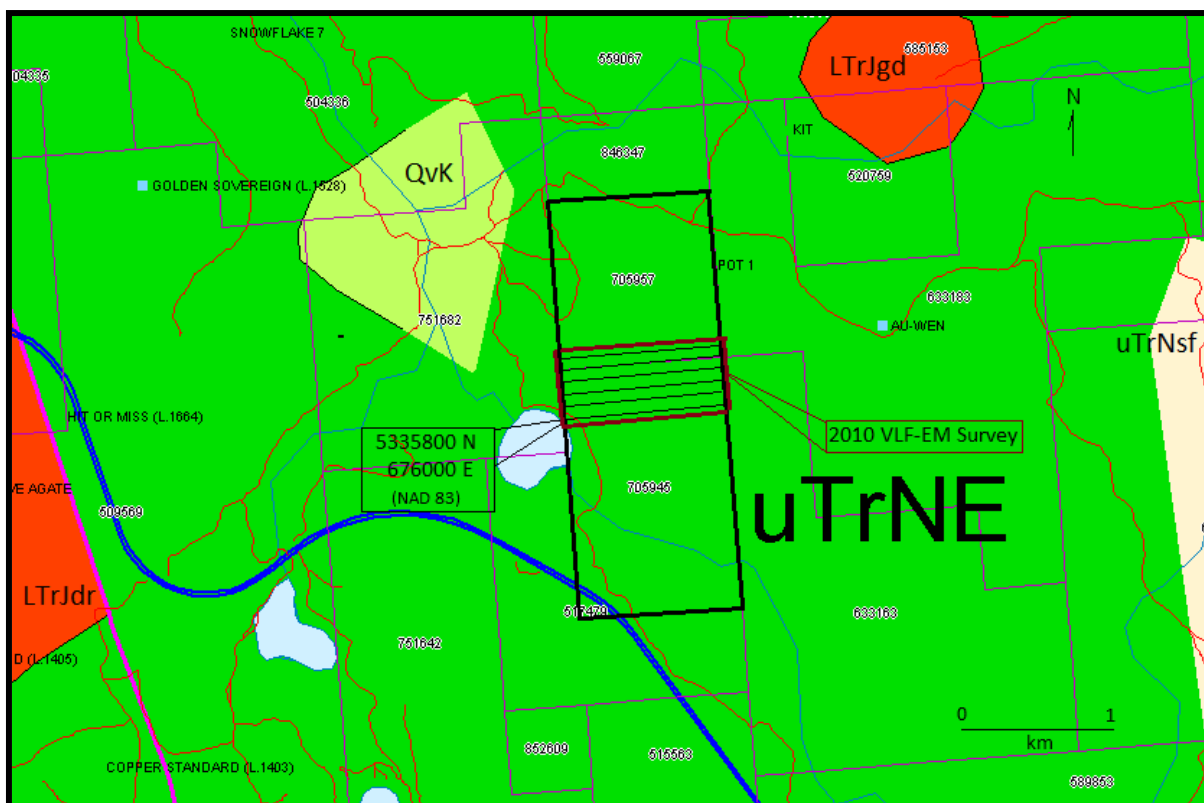
2008: (August) The VLF-EM survey completed by Cheetah Resources Ltd. (now Emperor Minerals Ltd.) reportedly (Sookochoff, 2009) resulted in the delineation of three prime anomalous zones which are open to the north and correlate with anomalies of the adjacent 2006 VLF-EM survey (AR 28,397). Two delineated secondary VLF-EM anomalies are open to the south.

GEOLOGICAL SETTING

The general geological setting of the region is described by Preto as a Nicola Belt of some 40 kilometres wide that extends from near the International Boundary in the south, 180 kilometres northward to Kamloops Lake. Mainly Upper Triassic volcanic, sedimentary, and intrusive rocks of the Nicola Group, which are noted for their copper deposits, underlie this region.

Besides the Nicola rocks, which are the oldest in the map-area, rock units include volcanic, sedimentary and intrusive rocks that range in age from Late Triassic to Pleistocene and Recent. The Copper Mountain porphyry deposit, 70 kilometres to the south of the Pothole Lake property and near Princeton, is a fairly typical diorite model deposit and was the first porphyry copper deposit mined in British Columbia. A complex zoned diorite-monzonite-syenite pluton intrudes the Nicola Group, intrusions found in and near ore are quartz poor, porphyritic syenite in composition, and albitized (Hollister, 1978).

Figure 3. **Geology, Claim, & Index Map**
(Base Map from MapPlace)



At the Afton deposit, 73 kilometres to the north of the Pothole Lake property and near Kamloops, the ore occurred at the west side of the nepheline normative Iron Mask batholith. This is a zoned pluton with diorite, monzonite, and syenite stages, with ore occurring near a syenite outcrop (Hollister, 1978).

The dominating geological elements in the Aspen Grove map-area are two northerly trending high-angle fault systems that divide the Nicola rocks into three sub-parallel belts. The Western Belt consists mainly of an east facing sequence of calc-alkaline flows which grade upward into pyroclastic rocks, epiclastic sediments, and abundant limestone.

GEOLOGICAL SETTING (cont'd)

This succession is separated near Aspen Grove by the Allison fault and in the northern part of the area by an unnamed fault, from the Central Belt assemblage, which is dominated by alkaline, and calc-alkaline and intrusive rocks and lesser-associated sedimentary units.

The Summers Creek-Alleyne fault system separates rocks of the Central Belt from those of the Eastern Belt. The latter assemblage consists of a westerly facing sequence of volcanic siltstone and sandstone, laharic deposits, conglomerate and tuff, and some distinctly alkaline flows, which occur near small stocks of micromonzonite porphyry.

On the Grove (Snowflake) property the geology is described by Osatenko (1979) as Nicola basaltic rocks comprise the oldest rocks in the area and consist of fine-grained red and green basalt flows, augite porphyry flows and tuffs. Augite porphyries typically contain 15% medium grained augite phenocrysts in a fine-grained green matrix. Pyrite is abundant (up to 8%) in these rocks, especially along the north and east sides of the diorite-monzonite complex. Rocks of unit 2 consist of fine-grained diorite and are altered in part to chlorite, epidote, albite, calcite and secondary K-feldspar, principally near copper mineralization.

Monzonites are fine to medium grained and porphyritic. Pyrite is abundant in both the diorite and monzonite, mainly along fractures but some as disseminations.

The **Pothole Lake property** is situated within the Eastern Belt assemblage which consists mainly of alkaline volcanic flows and well-bedded submarine volcanoclastic rocks, ranging from tuffaceous volcanic siltstones characteristic of the lower part, to coarse volcanic conglomerate and laharic breccias in the upper part. The assemblage is characterized by a paucity of intrusive rocks in comparison to the main Aspen Grove copper camp in the Central Belt a few kilometres to the west, separated by the Kentucky-Alleyne fault system.

The area of the **Pot 1 mineral occurrence** (Minfile 92HNE204) is underlain by purple to grey-green augite plagioclase porphyritic andesite to basalt (or trachyandesite and trachybasalt). Minor volcanic siltstone, wacke and tuff may be present. Northeast striking dikes of granodiorite to quartz monzonite intrude these rocks. The volcanic rocks at the showing are highly fractured and altered with epidote, quartz-carbonate veins, and minor hematite.

The **Au-Wen occurrence** (Minfile 92HNE144) 1.8 kilometres east-northeast of Pothole Lake and adjacent to the east of the Pothole Lake property consists of gold-silver-copper mineralization. The main part of this zone is a gold showing, a small stripped, drilled and trenched area just off a gravel road south of Quilchena Creek. This and most of the surrounding area is underlain by andesitic to dacitic tuff, black argillite, and volcanic sandstone and siltstone. The rocks are strongly fractured in a variety of orientations (Quinn 1983). Bedding in the tuff generally strikes 060° and dips variably to the northwest.

AREA MINERALIZATION

Osatenko (1979), in a report on the results of a percussion drilling program on the Snowflake claims for Cominco, reports that: the mineralization in old trenches consists of native copper, chalcocite, chalcopyrite, bornite and malachite; the lack of iron oxides and clay in these outcrops suggests that the native copper and chalcocite are not of supergene origin, are primary, and probably formed in a sulfide deficient environment, much like Afton.

AREA MINERALIZATION (cont'd)

At the **Snowflake** mineral occurrence) copper grades range from 0.06 to 1.6% with the best mineralization of 0.29% copper in boulders over 45m and up to 1.65% copper over 3m.

On the percussion drilling results, Osatenko (1979) reports that low grade copper mineralization was encountered at the bottom of two holes (110' of 0.07% and 50' of 0.07%) in an area where Craigmont drilling showed increasing copper grades with depth (60' of 0.26% and 80' of 0.12% copper at the bottom of 320 and 250 foot holes respectively).

On the **AU-Wen occurrence** (Minfile 92HNE144) mineralization consists of pyrite, pyrrhotite, chalcopyrite, and arsenopyrite disseminated sporadically in the tuffaceous rocks and argillite, up to about one %, and also occurs in fractures. Native gold is associated with the sulphides in narrow, quartz-filled fractures in these rocks. Minor malachite occurs in volcanics. The overall extent of the mineralization has not been determined, although diamond drilling has demonstrated that minor pyrite, pyrrhotite and chalcopyrite, disseminated or associated with quartz or calcite fracture veinlets, does persist below the surface (AR 11,241; 16,008).

Gold values in the area have been obtained from trench sampling and drill core at the main showing. Significant gold assays in chip samples reportedly range from 6.8 grams per tonne over 5.1 metres to 10.8 grams per tonne over 4.9 metres. Grab and select samples reportedly assayed between 14.4 and 91 grams per tonne gold. The best drill core intersection assayed 4.97 grams per tonne gold over 1.5 metres (AR 16,008). Copper is associated with the gold mineralization; one rock sample from the main trench yielded 0.29% copper. Another sample yielded 26 grams per tonne silver and 0.14 % lead (AR 7,293).

The **Kit mineral showing** (MINFILE 092HNE270) is exposed on the north bank of Quilchena Creek, 2.0 kilometres east-northeast of the creek's confluence with Pothole Creek. A small body of granodiorite of Late Triassic to early Jurassic age intrudes volcanics of the Upper Triassic Nicola Group. The granodiorite is cut by narrow, steeply-dipping shears striking north and northeast, near the faulted contact with slightly pyritic Nicola Group greenstone to the northwest. Some of the fractures contain quartz with minor chalcopyrite, malachite and molybdenite.

In the exploration by Laramide Resources in the immediate area east and south of Pothole Lake, assays of rock samples as reported by Watson (1985) are background values of up to 0.3 grams silver per tonne and 0.005 grams gold per tonne

PROPERTY MINERALIZATION

Mineralization at the **Pot 1 mineral showing** is reported as being comprised of erratically disseminated chalcopyrite, malachite, azurite and pyrite. The copper minerals occur in narrow zones striking southwest, transverse to the regional strike but parallel to a fault one kilometre to the northwest. A reported composite chip sample across the showing was reported to assay 2.55 grams per tonne gold and 1.9 grams per tonne silver over 130 metres (Watson, 1985).. Gold and silver values appear to be proportional to the degree of alteration and copper mineralization (AR 13,714). It is further reported that individual rock samples from the showing assayed up to 0.95 grams gold per tonne and 4.8 grams silver per tonne.

2010 VLF-EM SURVEY

Between October 26, 2010 and October 27, 2010 the writer completed a localized VLF-EM survey within the central portion of the Pothole Lake property on an area proximal and east of Pothole Lake and between the 2007 and the 2008 VLF-EM surveys.

(a) Instrumentation

The VLF-EM survey was carried out with a VLF-EM receiver, Model 27, manufactured by Sabre Electronics Ltd. of Burnaby, British Columbia. This instrument is designed to measure the electromagnetic component of the very low frequency field (VLF-EM), which for this survey is transmitted at 24.8 kHz from Seattle (Jim Creek), Washington.

b) Theory

In all electromagnetic prospecting, a transmitter induces an alternating magnetic field (called the primary field) by having a strong alternating current move through a coil of wire. This primary field travels through any medium and if a conductive mass such as a sulphide body is present, the primary field induces a secondary alternating current in the conductor, and this current in turn induces a secondary magnetic field. The receiver picks up the primary field and, if a conductor is present, the secondary field distorts the primary field.

The fields are expressed as a vector, which has two components, the "in-phase" (or real) component and the "out-of-phase" (or quadrature) component. For the VLF-EM receiver, the tilt angle in degrees of the distorted electromagnetic field with a conductor is measured from that which it would have been if the field was not distorted with a conductor.

Since the fields lose strength proportionally with the distance they travel, a distant conductor has less of an effect than a close conductor. Also, the lower the frequency of the primary field, the further the field can travel and therefore the greater the depth penetration.

The VLF-EM uses a frequency range from 13 to 30 kHz, whereas most EM instruments use frequencies ranging from a few hundred to a few thousand Hz. Because of its relatively high frequency, the VLF-EM can pick up bodies of a much lower conductivity and therefore is more susceptible to clay beds, electrolyte-filled fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts as well as sulphide bodies of too low a conductivity for other EM methods to pick up. Consequently, the VLF-EM has additional uses in mapping structure and in picking up sulphide bodies of too low a conductivity for conventional EM methods and too small for induced polarization. (In places it can be used instead of IP).

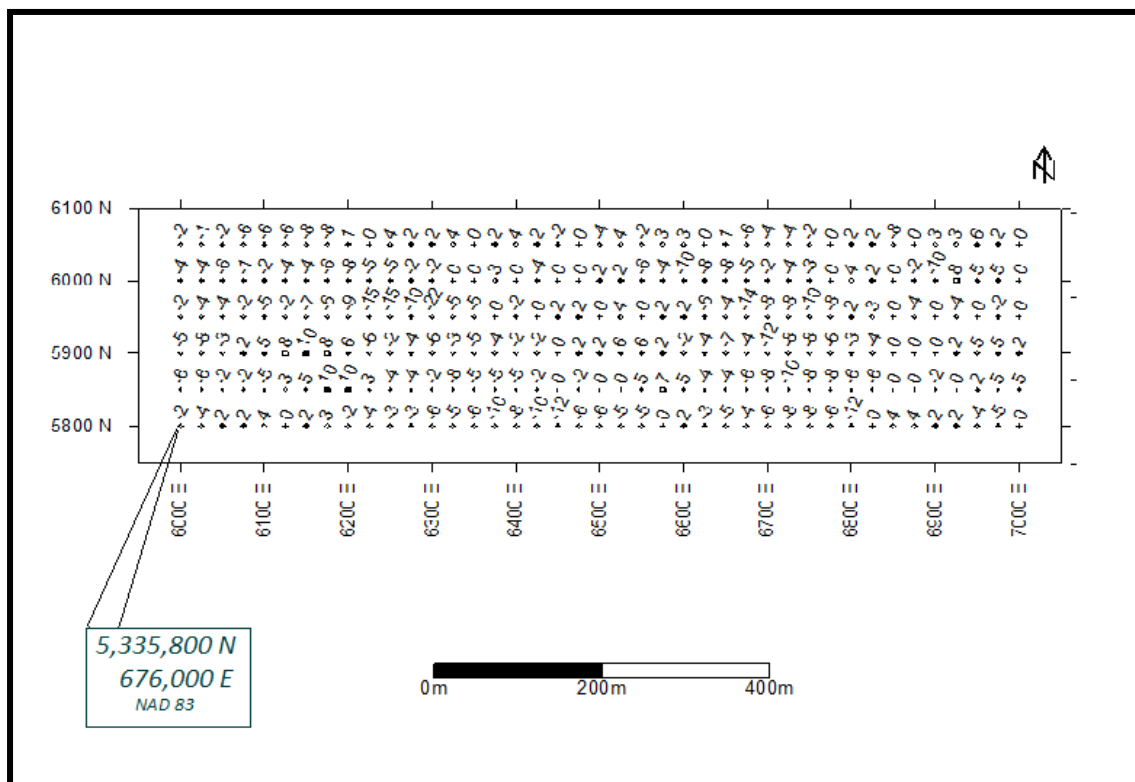
However, its susceptibility to lower conductive bodies results in a number of anomalies, many of them difficult to explain and, thus, VLF-EM preferably should not be interpreted without a good geological knowledge of the property and/or other geophysical and geochemical surveys.

2010 VLF-EM SURVEY (cont'd)

(c) Survey Procedure

As stations could not be flagged due to restrictions imposed by the land owner, Douglas Lake Ranch, a 300 metre north base-line was established from GPS station 5,335,800 N, 676,000 E located predominantly in the northern portion of Tenure 705945 and the southern portion of Tenure near a road on the northeastern shores of Pothole Lake. VLF-EM readings were taken at 25 metre intervals eastward from the base-line for 1000 metres along each of the six east-west grid lines. The survey stations were established according to the UTM coordinates East and North with the station numbers plotted as the last four digits of the UTM coordinate (NAD 83) at a specific point. Thus, the initial GPS station at 5,335,800N, 676,000E, is designated as 5800N, 6000E on the maps. The raw field data is presented in Figure 4 and in Appendix I. The location of the VLF-EM survey and the grid is shown on Figure 3.

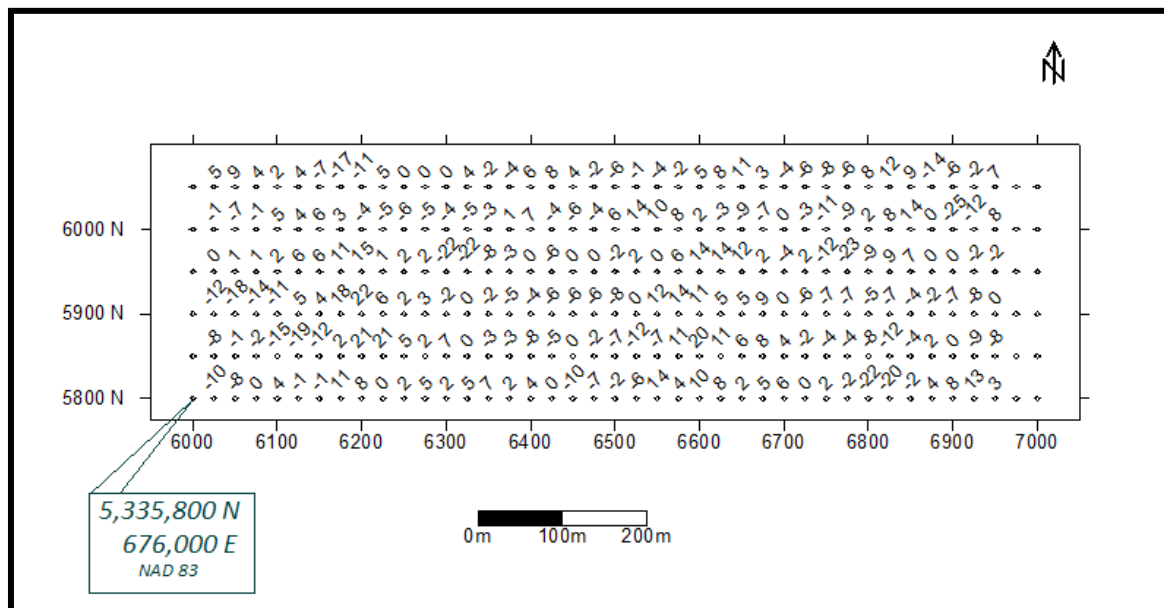
Figure 4. Raw Data: 2010 VLF-EM Survey



(d) Compilation of Data

The raw data was transferred to an Excel spreadsheet and Fraser Filtered. Thence a Surfer 8 program was utilized to plot maps from the VLF-EM data. Three maps were created; VLF-EM Raw Data (Figure 4), Fraser Filtered Data (Figure 5), and Contoured Fraser Filtered Data (Figure 6).

Figure 5. Fraser Filtered Data: 2010 VLF-EM Survey



e) Results

Two parallel prime northerly trending anomalous zones, A, and B, projected through the grid for 300 metres, with a third discontinuous northerly trending zone C, in the east, were delineated. A description of the zones is as follows:

Zone A:

- Averaging 200 metre wide;
- Open, narrowing, and weakening, to the north;
- Open, widening, and weakening, to the south;
- Strongest for 150 metres centrally at an indicated cross structure.

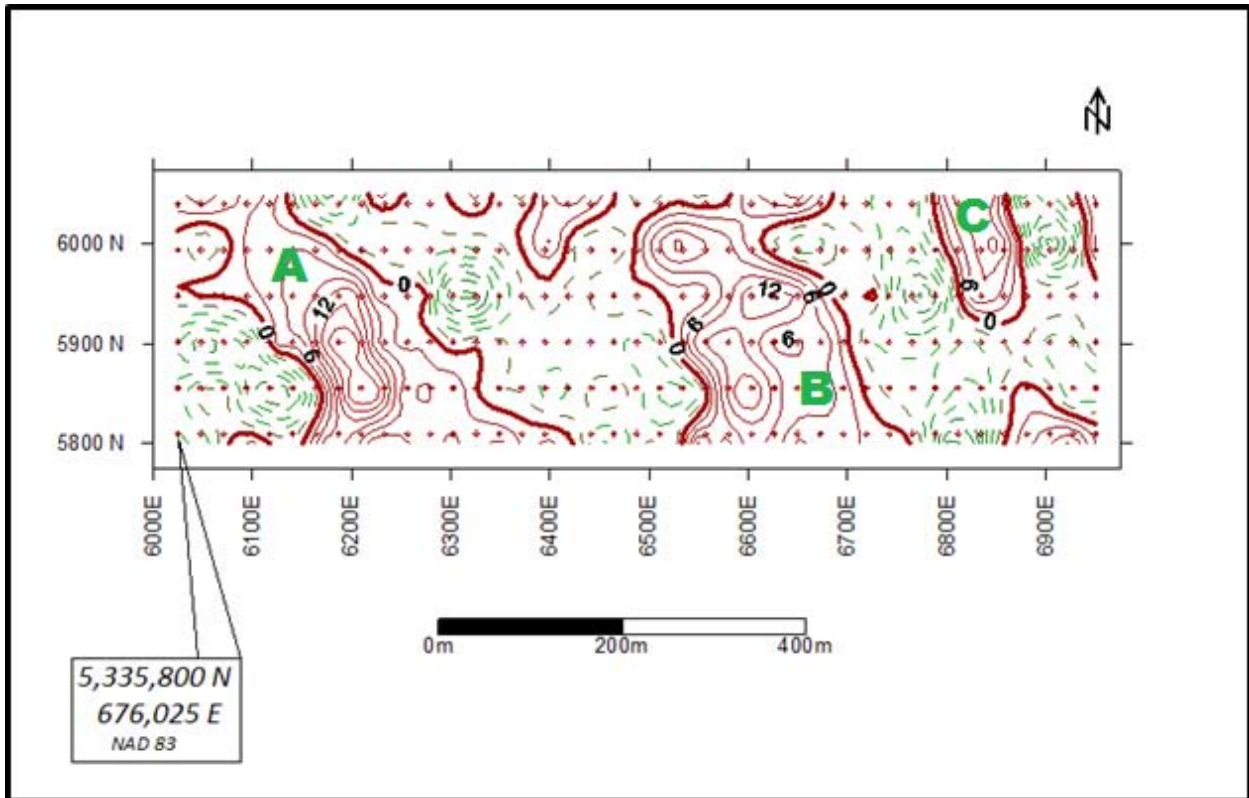
Zone B:

- Averaging 150 metres wide;
- Open, narrowing, and weakening, to the north;
- Open, widening, and weakening, to the south;
- Strongest centrally at an indicated cross structure;
- Possible parallel cross structure at 6550E 6000N;
- Projected west-southwest continuance of cross structure to and through Zone A, entering Zone A at 5900N 6325E

Zone C:

- 150 metre medium strength anomaly;
- Open to the north and closed to the south;
- Projected continuance 50 metres south for 50 metres and open to the south.
- No indication of cross structures.

Figure 6. Contoured Fraser Filtered Data: 2010 VLF-EM Survey



INTERPRETATION

The 2010 VLF-EM survey was successful in delineating two northerly trending prime anomalous zones that are interpreted to indicate structures which may provide controls for potentially economic mineralization. In associating the two Zones, A and B, each zone contains one or two localized increased anomalous areas at the location of a projected intersecting structure

These areas of indicated structural intersection would be prime areas to explore for geological surficial mineral indicators of potential sub surface mineralization. These general indicators may occur as mineralization, alteration, or as veinlets of mineralized intrusive.

Respectfully submitted

Sookochoff Consultants Inc.



Laurence Sookochoff, PEng.

STATEMENT OF COSTS

The fieldwork on the Pothole Lake Property was carried out October 26, 2010 and October 27, 2010 to the value as follows:

Laurence Sookochoff: 2 days @ \$950. -----	\$ 1,900.00
VLF Rental: 3 days @ \$ 75.00 -----	225.00
Room & board: 3 days @ \$175.00 -----	525.00
Results, maps, compilation & drafting -----	1,000.00
Report, xerox, & printing -----	<u>1,500.00</u>
	\$ 5,150.00
	=====

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CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist and principal of Sookochoff Consultants Inc. with an address at 120 125A-1030 Denman Street, Vancouver, BC V6G 2M6.

I, Laurence Sookochoff, further certify that:

1) I am a graduate of the University of British Columbia (1966) and hold a B.Sc.degree in Geology.

2) I have been practicing my profession for the past forty-five years.

3) I am registered and in good standing with the Association of Professional Engineers and Geoscientists of British Columbia.

4) The information for this report is based on information as itemized in the Selected Reference section of this report, from exploration work the writer has completed within the Aspen Grove copper camp in the 1980's, and from the 2010 VLF-EM survey performed, and the results thereof, as reported on herein.

6) I do not have any interest in the Pothole Lake Property as described herein. I hold Tenures 705945 & 705957 comprising the Pothole Lake Property, in trust for Emperor Minerals Ltd.



Laurence Sookochoff, P. Eng.

Vancouver, BC

Appendix I

VLf-EM RAW DATA

East	North	VLF-EM	FF	East	North	VLF-EM	FF	East	North	VLF-EM	FF
6000	5900	-5		6000	5850	-6		6000	5800	-2	
6025	5900	-8	-12	6025	5850	-6	-8	6025	5800	-4	-10
6050	5900	-3	-18	6050	5850	-2	-1	6050	5800	2	-8
6075	5900	2	-14	6075	5850	-2	-2	6075	5800	2	0
6100	5900	5	-11	6100	5850	-5	-15	6100	5800	4	4
6125	5900	8	5	6125	5850	3	-19	6125	5800	0	-1
6150	5900	10	4	6150	5850	5	-12	6150	5800	2	-1
6175	5900	8	18	6175	5850	10	2	6175	5800	3	11
6200	5900	6	22	6200	5850	10	21	6200	5800	-2	8
6225	5900	-6	6	6225	5850	3	21	6225	5800	-4	0
6250	5900	-2	2	6250	5850	-4	5	6250	5800	-3	2
6275	5900	-4	3	6275	5850	-4	2	6275	5800	-3	5
6300	5900	-6	-2	6300	5850	-2	7	6300	5800	-6	2
6325	5900	-3	0	6325	5850	-8	0	6325	5800	-5	5
6350	5900	-5	-2	6350	5850	-5	-3	6350	5800	-6	7
6375	5900	-4	-5	6375	5850	-5	-3	6375	5800	-10	2
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6425	5900	-2	-6	6425	5850	-2	-5	6425	5800	-10	0
6450	5900	0	-6	6450	5850	0	0	6450	5800	-12	-10
6475	5900	2	-6	6475	5850	-2	-2	6475	5800	-6	-7
6500	5900	2	-8	6500	5850	0	-7	6500	5800	-6	-2
6525	5900	6	0	6525	5850	0	-12	6525	5800	-5	-6
6550	5900	6	12	6550	5850	5	-7	6550	5800	-5	14
6575	5900	2	14	6575	5850	7	11	6575	5800	0	4
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6625	5900	-4	5	6625	5850	-4	11	6625	5800	-3	8
6650	5900	-7	5	6650	5850	-4	6	6650	5800	-5	2
6675	5900	-4	9	6675	5850	-6	8	6675	5800	-4	5
6700	5900	-12	0	6700	5850	-8	4	6700	5800	-6	6
6725	5900	-8	-6	6725	5850	-10	-2	6725	5800	-8	0
6750	5900	-8	-7	6750	5850	-8	-4	6750	5800	-8	2
6775	5900	-6	-7	6775	5850	-8	-4	6775	5800	-6	-2
6800	5900	-3	-5	6800	5850	-6	-8	6800	5800	-12	-22
6825	5900	-4	-7	6825	5850	-6	-12	6825	5800	0	-20
6850	5900	0	-4	6850	5850	0	-4	6850	5800	4	-2
6875	5900	0	-2	6875	5850	0	2	6875	5800	4	4
6900	5900	0	-7	6900	5850	-2	0	6900	5800	2	8
6925	5900	2	-8	6925	5850	0	-9	6925	5800	2	13
6950	5900	5	0	6950	5850	2	-8	6950	5800	-4	3
6975	5900	5		6975	5850	5		6975	5800	-5	
7000	5900	2		7000	5850	5		7000	5800	0	